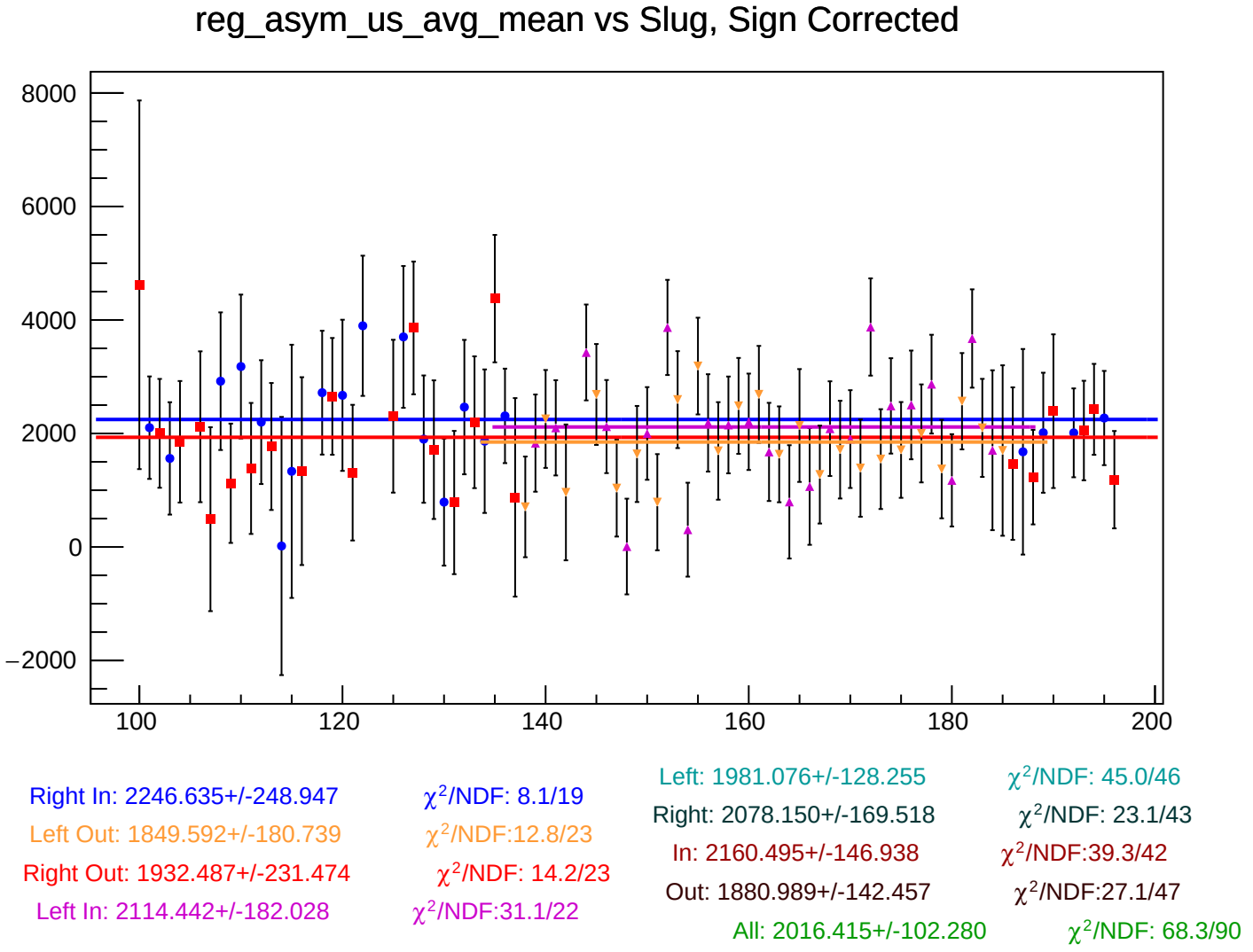
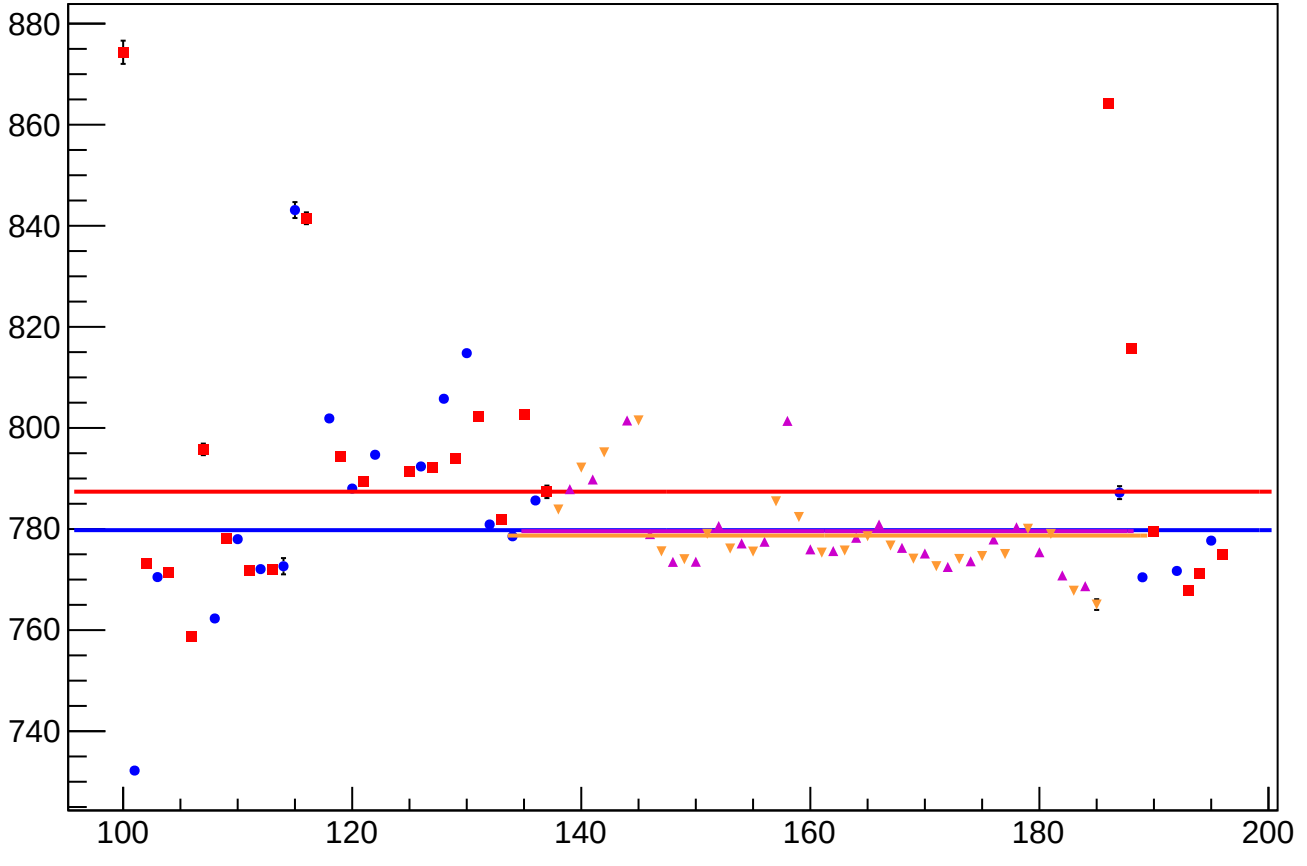

reg_asym_us_avg_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
100
120
140
160
180
200
Right In: 2246.635+/-248.947
χ²/NDF: 8.1/19
Left Out: 1849.592+/-180.739
χ²/NDF:12.8/23
Right Out: 1932.487+/-231.474
χ²/NDF: 14.2/23
Left In: 2114.442+/-182.028
χ²/NDF:31.1/22
Left: 1981.076+/-128.255
χ²/NDF: 45.0/46
Right: 2078.150+/-169.518
χ²/NDF: 23.1/43
In: 2160.495+/-146.938
χ²/NDF:39.3/42
Out: 1880.989+/-142.457
χ²/NDF:27.1/47
All: 2016.415+/-102.280
χ²/NDF: 68.3/90

# reg_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 779.778+/-0.176 $\chi^2$/NDF: 12816.4/19

Left Out: 778.708+/-0.128 $\chi^2$/NDF:3389.8/23

Right Out: 787.392+/-0.164 $\chi^2$/NDF: 18404.8/23

Left In: 779.575+/-0.129 $\chi^2$/NDF:4172.9/22

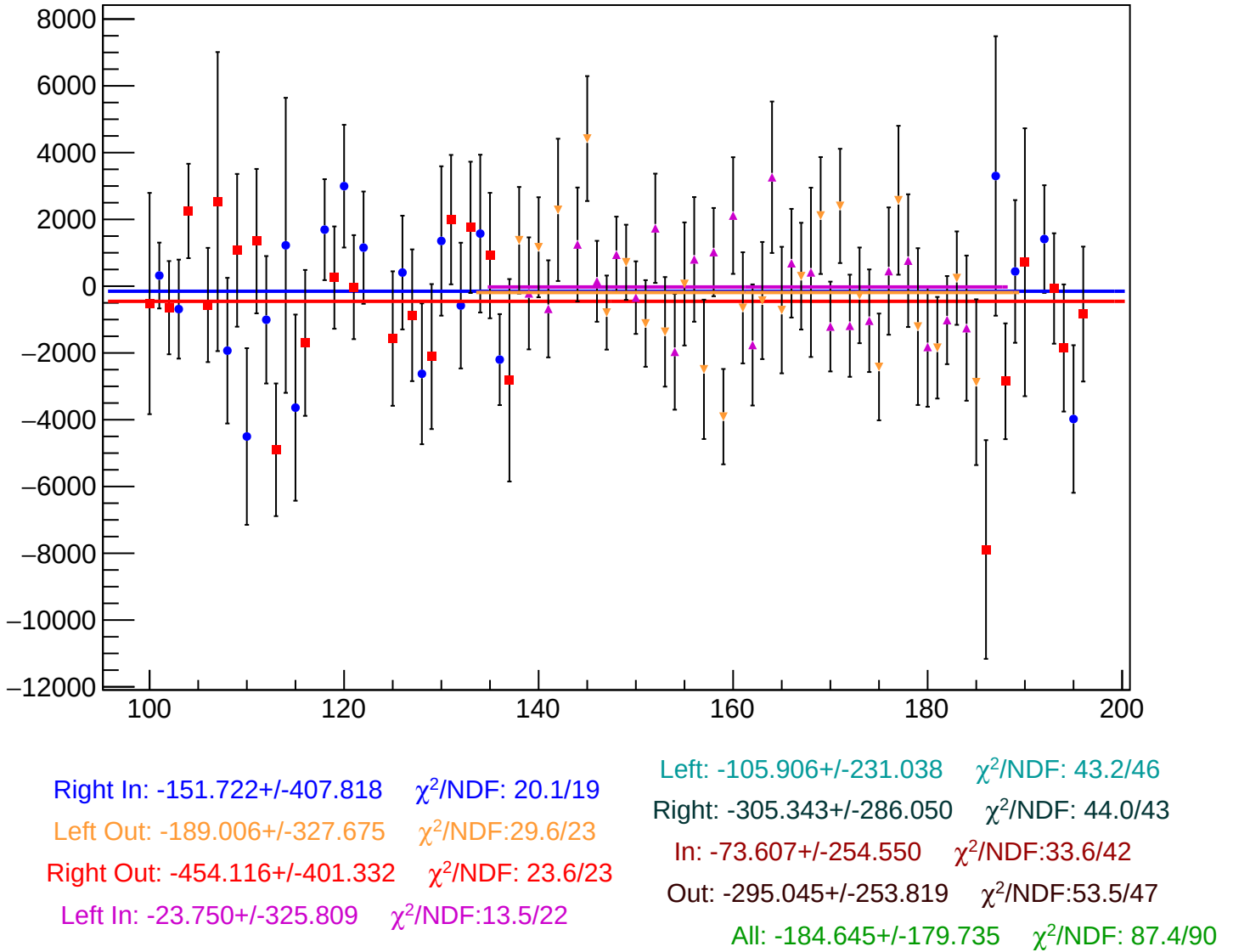
Left: 779.138+/-0.091 $\chi^2$/NDF: 7585.5/46

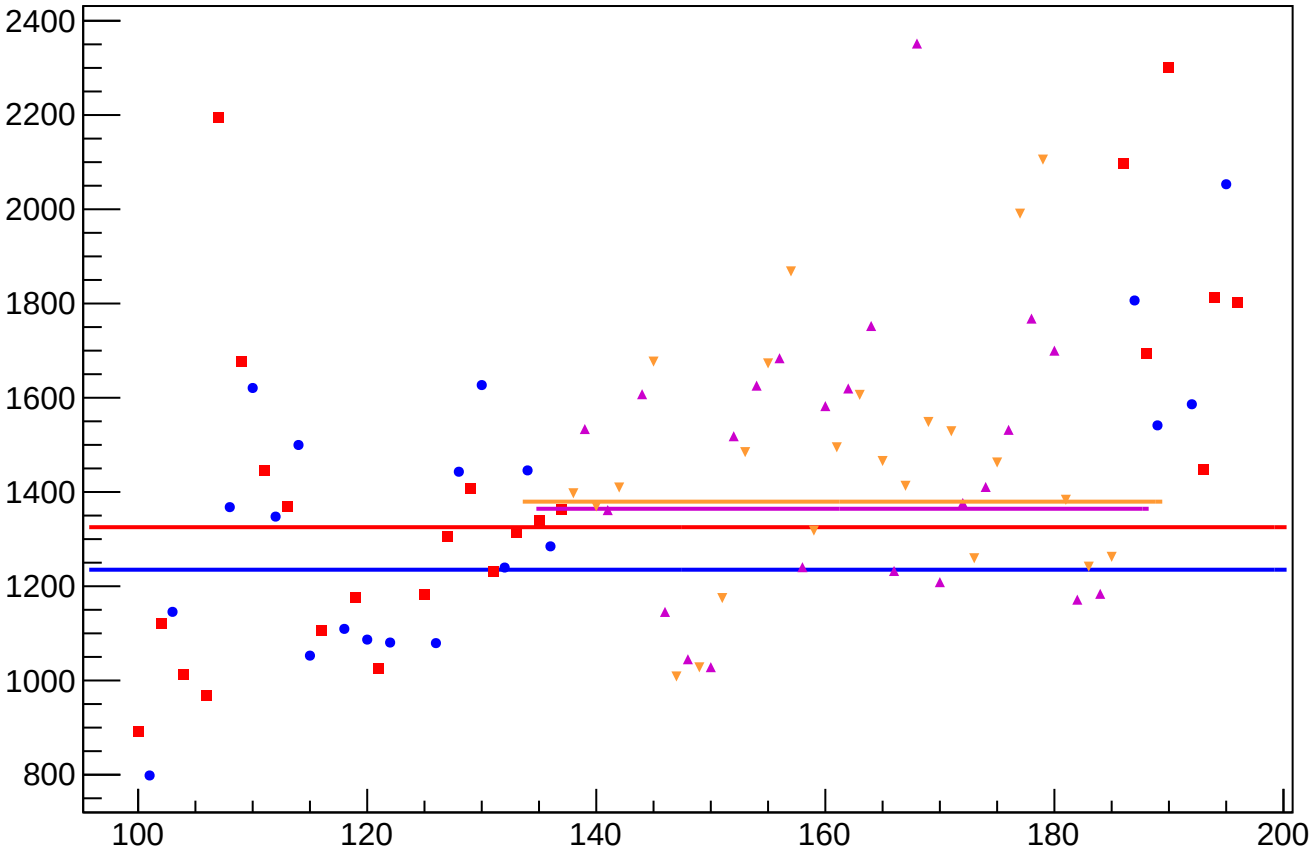
Right: 783.862+/-0.120 $\chi^2$/NDF: 32224.7/43

In: 779.646+/-0.104 $\chi^2$/NDF:16990.2/42

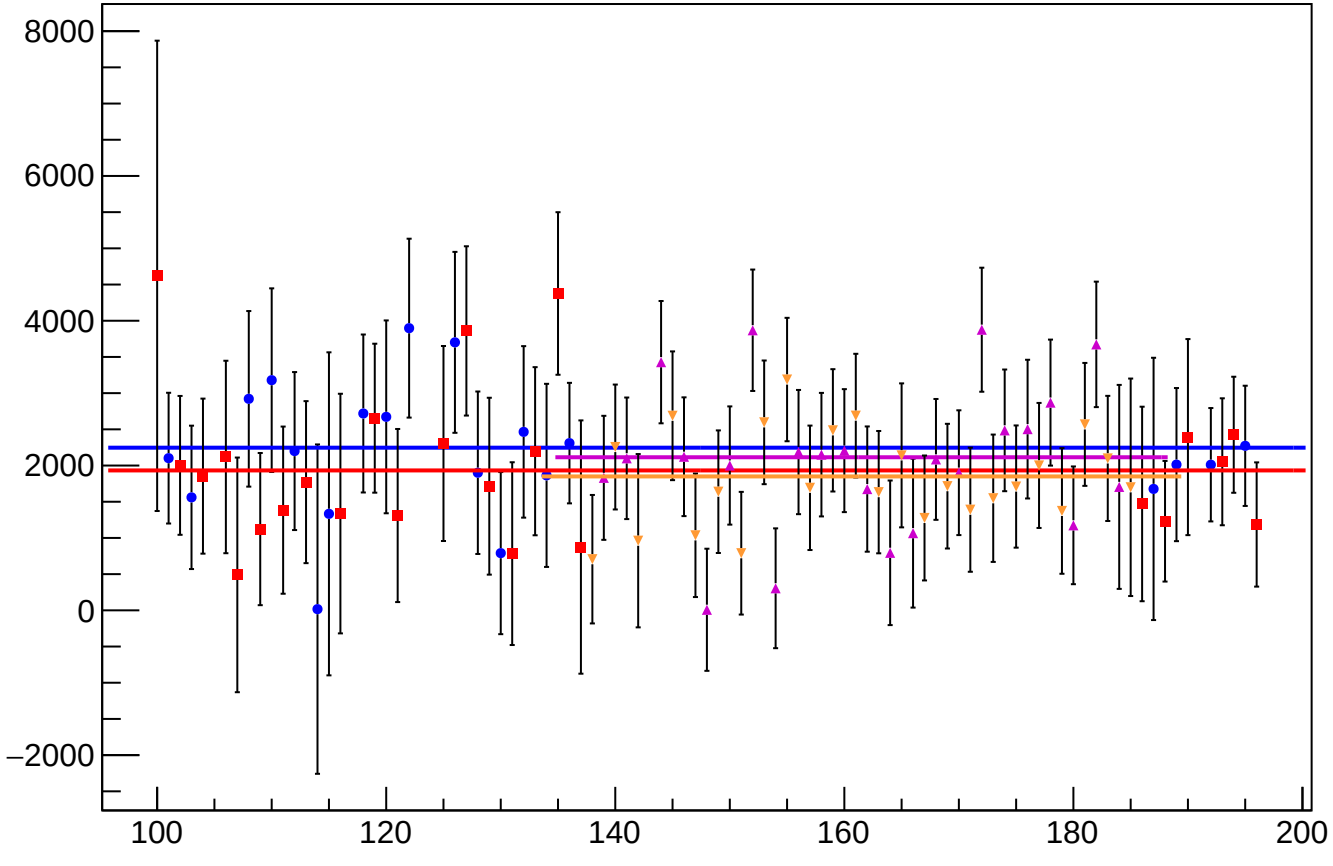
Out: 781.997+/-0.101 $\chi^2$/NDF:23543.2/47

All: 780.858+/-0.072 $\chi^2$/NDF: 40797.6/90


asym_us_avg_reg_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -151.722+/-407.818 χ²/NDF: 20.1/19
Left Out: -189.006+/-327.675 χ²/NDF:29.6/23
Right Out: -454.116+/-401.332 χ²/NDF: 23.6/23
Left In: -23.750+/-325.809 χ²/NDF:13.5/22
Left: -105.906+/-231.038 χ²/NDF: 43.2/46
Right: -305.343+/-286.050 χ²/NDF: 44.0/43
In: -73.607+/-254.550 χ²/NDF:33.6/42
Out: -295.045+/-253.819 χ²/NDF:53.5/47
All: -184.645+/-179.735 χ²/NDF: 87.4/90


asym_us_avg_reg_correction_rms vs Slug, Sign Corrected
2400
2200
2000
1800
1600
1400
1200
1000
800
100
120
140
160
180
200
Right In: 1235.085+/-0.288 χ²/NDF: 1079093.0/19
Left Out: 1379.536+/-0.232 χ²/NDF:1158468.5/23
Right Out: 1325.329+/-0.284 χ²/NDF: 1097712.2/23
Left In: 1364.412+/-0.230 χ²/NDF:1312299.5/22
Left: 1371.931+/-0.163 χ²/NDF: 2472910.6/46
Right: 1280.930+/-0.202 χ²/NDF: 2226557.0/43
In: 1314.027+/-0.180 χ²/NDF:2514162.8/42
Out: 1357.854+/-0.179 χ²/NDF:2278073.5/47
All: 1336.003+/-0.127 χ²/NDF: 4821965.6/90

# cor_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2246.635+/-248.947 $\chi^2$/NDF: 8.1/19

Left Out: 1849.592+/-180.739 $\chi^2$/NDF:12.8/23

Right Out: 1932.487+/-231.474 $\chi^2$/NDF: 14.2/23

Left In: 2114.442+/-182.028 $\chi^2$/NDF:31.1/22

Left: 1981.076+/-128.255 $\chi^2$/NDF: 45.0/46

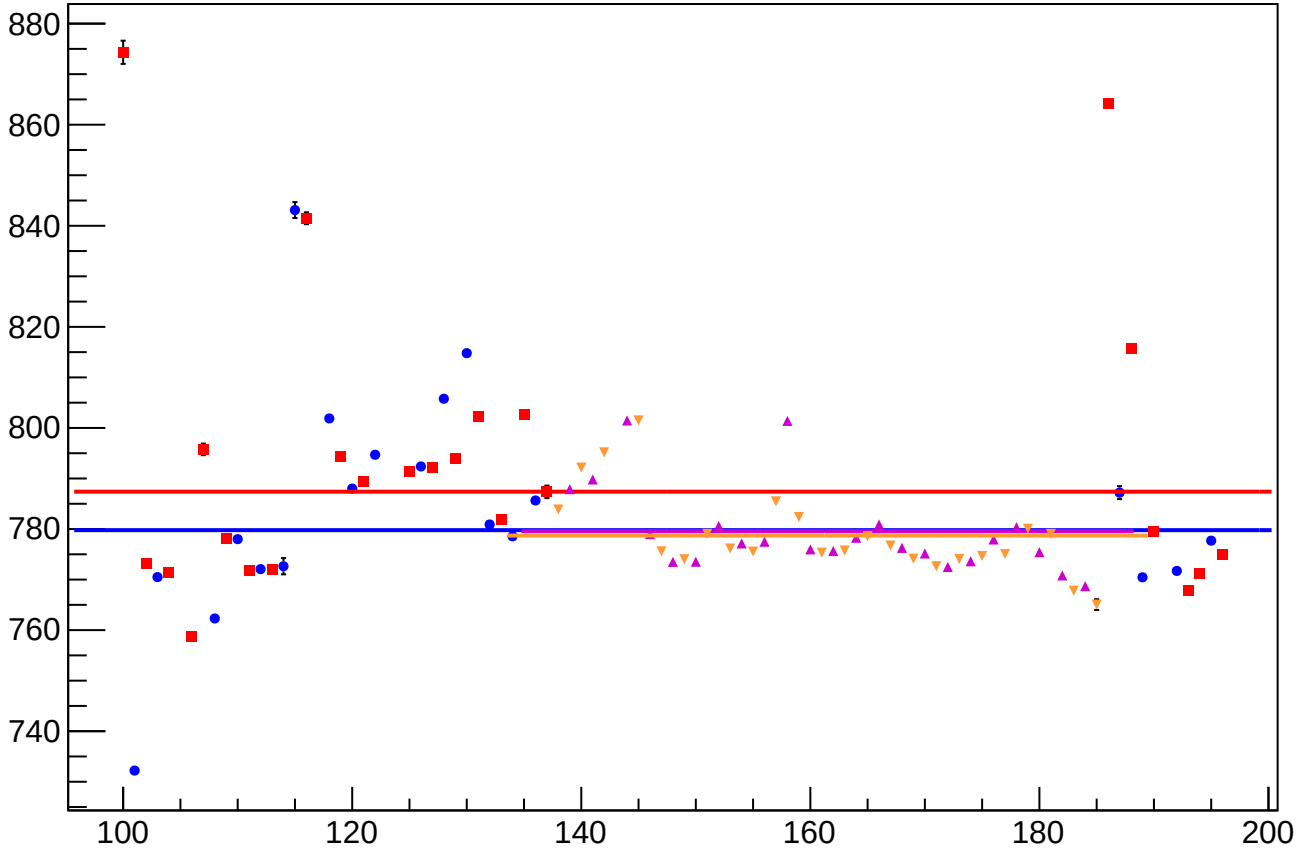
Right: 2078.150+/-169.518 $\chi^2$/NDF: 23.1/43

In: 2160.495+/-146.938 $\chi^2$/NDF:39.3/42

Out: 1880.989+/-142.457 $\chi^2$/NDF:27.1/47

All: 2016.415+/-102.280 $\chi^2$/NDF: 68.3/90

# cor_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 779.778+/-0.176 $\chi^2$/NDF: 12816.4/19

Left Out: 778.708+/-0.128 $\chi^2$/NDF:3389.8/23

Right Out: 787.392+/-0.164 $\chi^2$/NDF: 18404.8/23

Left In: 779.575+/-0.129 $\chi^2$/NDF:4172.9/22

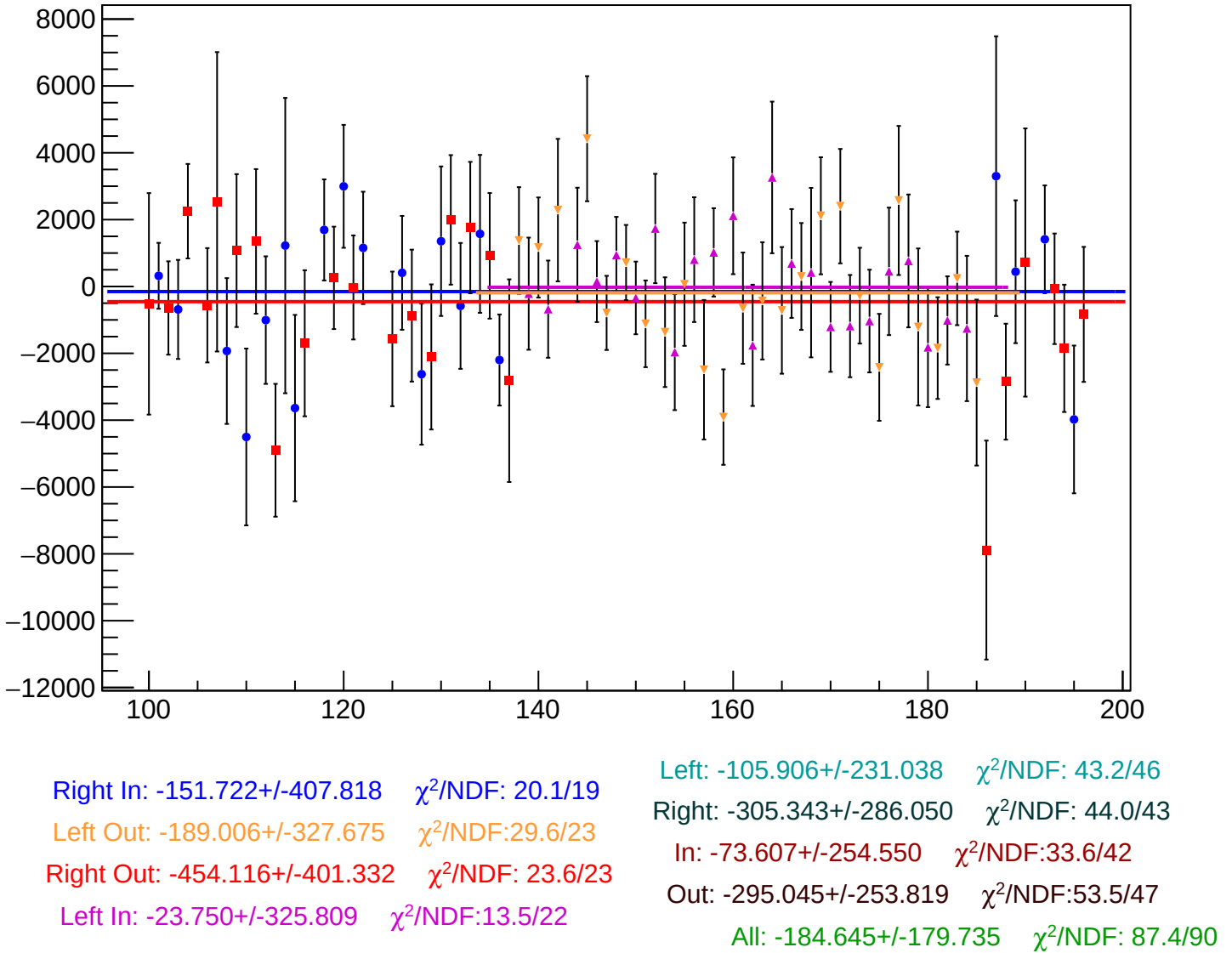
Left: 779.138+/-0.091 $\chi^2$/NDF: 7585.5/46

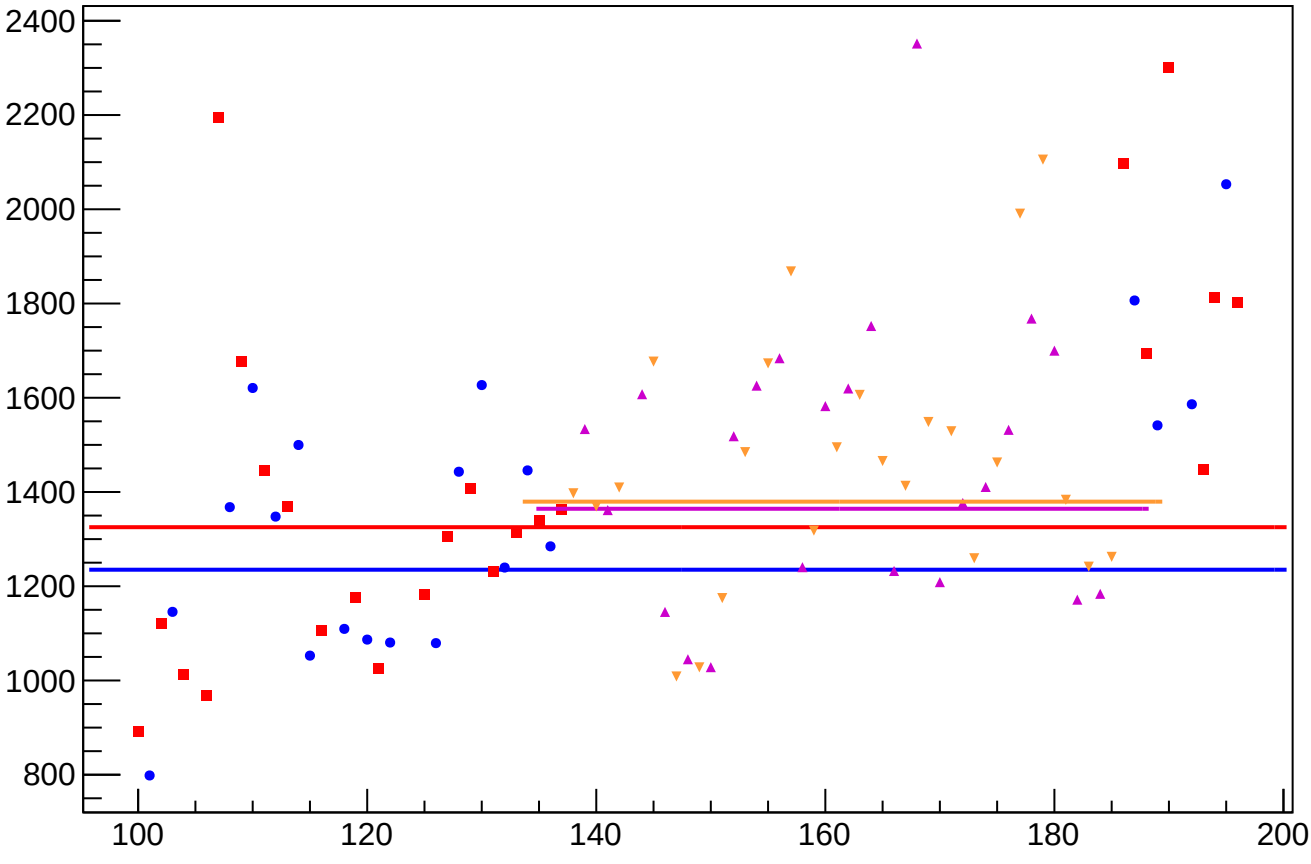
Right: 783.862+/-0.120 $\chi^2$/NDF: 32224.7/43

In: 779.646+/-0.104 $\chi^2$/NDF:16990.2/42

Out: 781.997+/-0.101 $\chi^2$/NDF:23543.2/47

All: 780.858+/-0.072 $\chi^2$/NDF: 40797.6/90


asym_us_avg_cor_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -151.722+/-407.818 χ²/NDF: 20.1/19
Left Out: -189.006+/-327.675 χ²/NDF:29.6/23
Right Out: -454.116+/-401.332 χ²/NDF: 23.6/23
Left In: -23.750+/-325.809 χ²/NDF:13.5/22
Left: -105.906+/-231.038 χ²/NDF: 43.2/46
Right: -305.343+/-286.050 χ²/NDF: 44.0/43
In: -73.607+/-254.550 χ²/NDF:33.6/42
Out: -295.045+/-253.819 χ²/NDF:53.5/47
All: -184.645+/-179.735 χ²/NDF: 87.4/90


asym_us_avg_cor_correction_rms vs Slug, Sign Corrected
2400
2200
2000
1800
1600
1400
1200
1000
800
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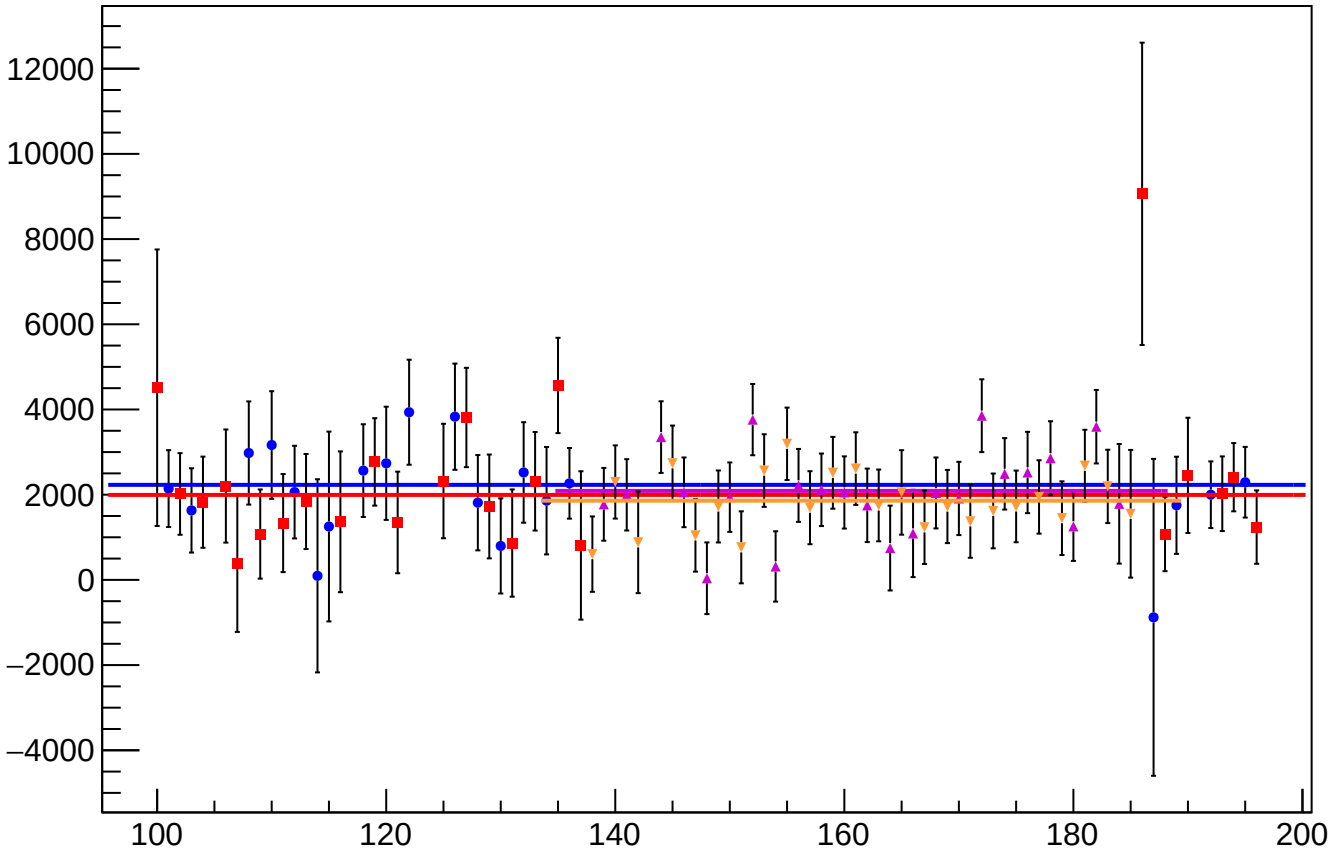
120
140
160
180
200
Right In: 1235.085+/-0.288 χ²/NDF: 1079093.0/19
Left Out: 1379.536+/-0.232 χ²/NDF:1158468.5/23
Right Out: 1325.329+/-0.284 χ²/NDF: 1097712.2/23
Left In: 1364.412+/-0.230 χ²/NDF:1312299.5/22
Left: 1371.931+/-0.163 χ²/NDF: 2472910.6/46
Right: 1280.930+/-0.202 χ²/NDF: 2226557.0/43
In: 1314.027+/-0.180 χ²/NDF:2514162.8/42
Out: 1357.854+/-0.179 χ²/NDF:2278073.5/47
All: 1336.003+/-0.127 χ²/NDF: 4821965.6/90




Right In: 2230.772+/-251.241 $\chi^2$/NDF: 9.1/19

Left Out: 1859.528+/-180.231 $\chi^2$/NDF:13.5/23

Right Out: 1994.683+/-234.955 $\chi^2$/NDF: 19.1/23

Left In: 2089.493+/-181.523 $\chi^2$/NDF:29.6/22

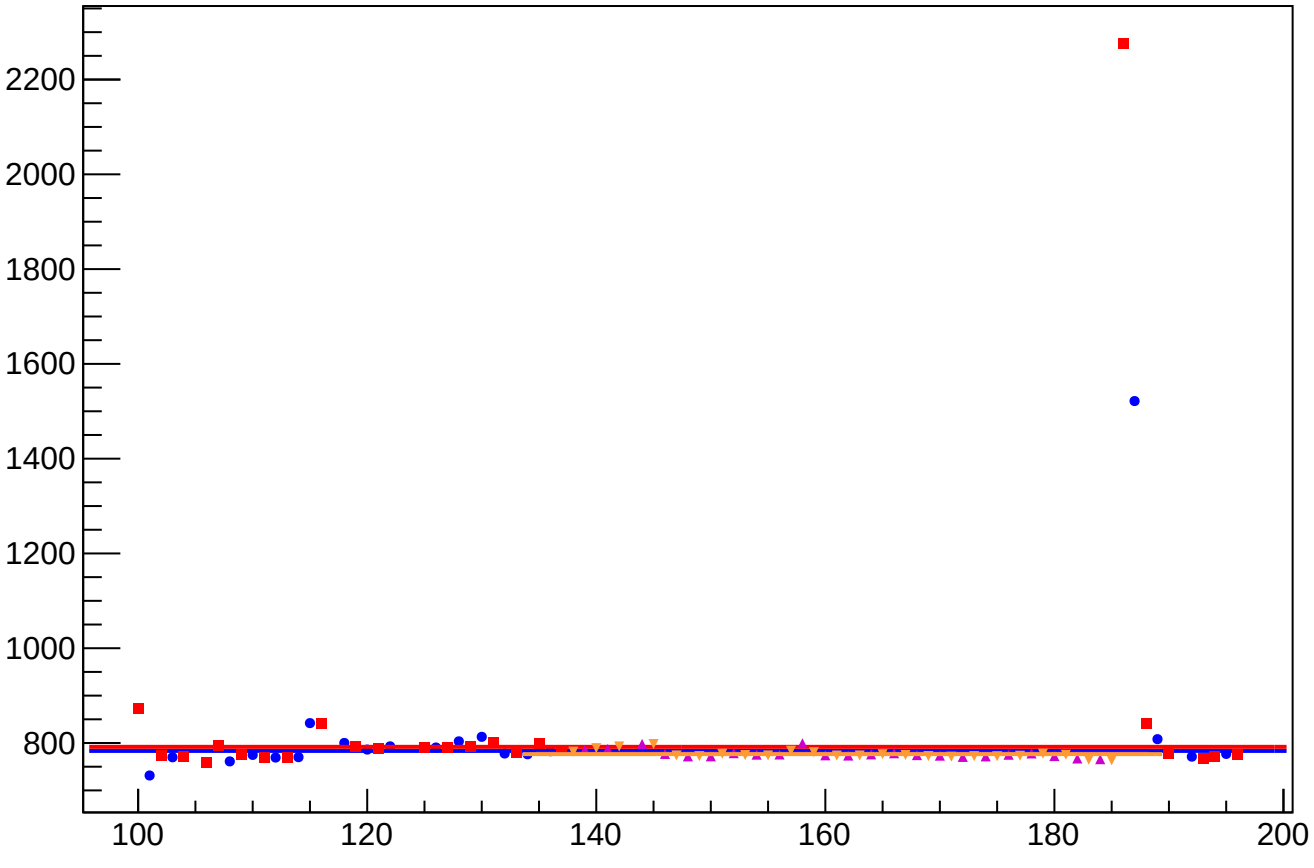
Left: 1973.689+/-127.897 $\chi^2$/NDF: 43.9/46

Right: 2104.828+/-171.607 $\chi^2$/NDF: 28.7/43

In: 2137.948+/-147.137 $\chi^2$/NDF:38.9/42

Out: 1909.596+/-143.003 $\chi^2$/NDF:32.9/47

All: 2020.519+/-102.549 $\chi^2$/NDF: 73.1/90




Right In: 783.343+/-0.178 $\chi^2$/NDF: 92689.9/19

Left Out: 776.523+/-0.127 $\chi^2$/NDF:3137.1/23

Right Out: 791.928+/-0.166 $\chi^2$/NDF: 368619.0/23

Left In: 777.413+/-0.128 $\chi^2$/NDF:4062.1/22

Left: 776.965+/-0.090 $\chi^2$/NDF: 7223.5/46

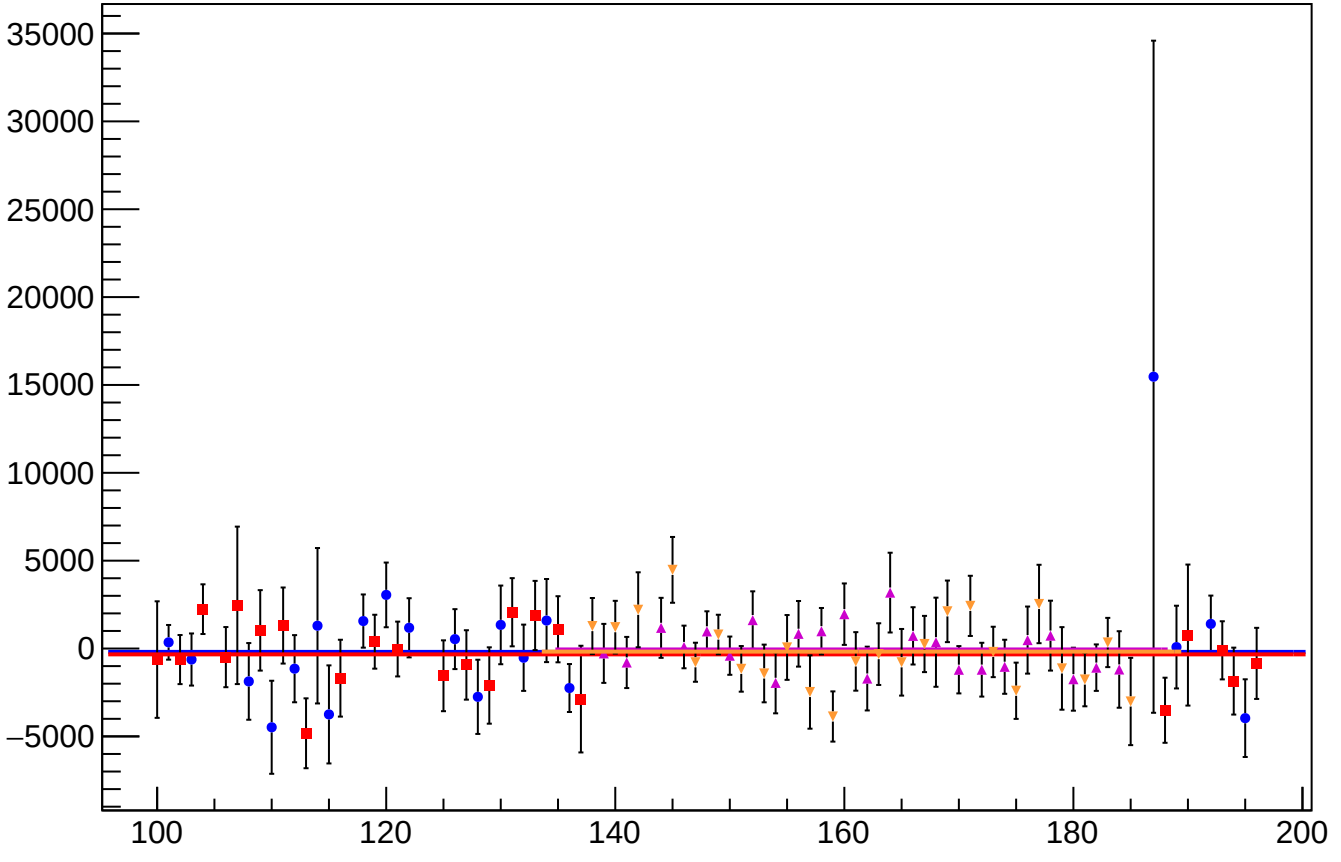
Right: 787.923+/-0.121 $\chi^2$/NDF: 462554.5/43

In: 779.447+/-0.104 $\chi^2$/NDF:97484.3/42

Out: 782.229+/-0.101 $\chi^2$/NDF:377168.7/47

All: 780.878+/-0.073 $\chi^2$/NDF: 475020.8/90

asym_us_avg_overload_cor_correction_mean vs Slug, Sign Corrected




Right In: -191.438+/-411.372 $\chi^2$/NDF: 20.3/19

Left Out: -174.932+/-327.991 $\chi^2$/NDF:29.6/23

Right Out: -331.576+/-406.059 $\chi^2$/NDF: 19.4/22

Left In: -52.820+/-326.124 $\chi^2$/NDF:13.0/22

Left: -113.528+/-231.262 $\chi^2$/NDF: 42.7/46

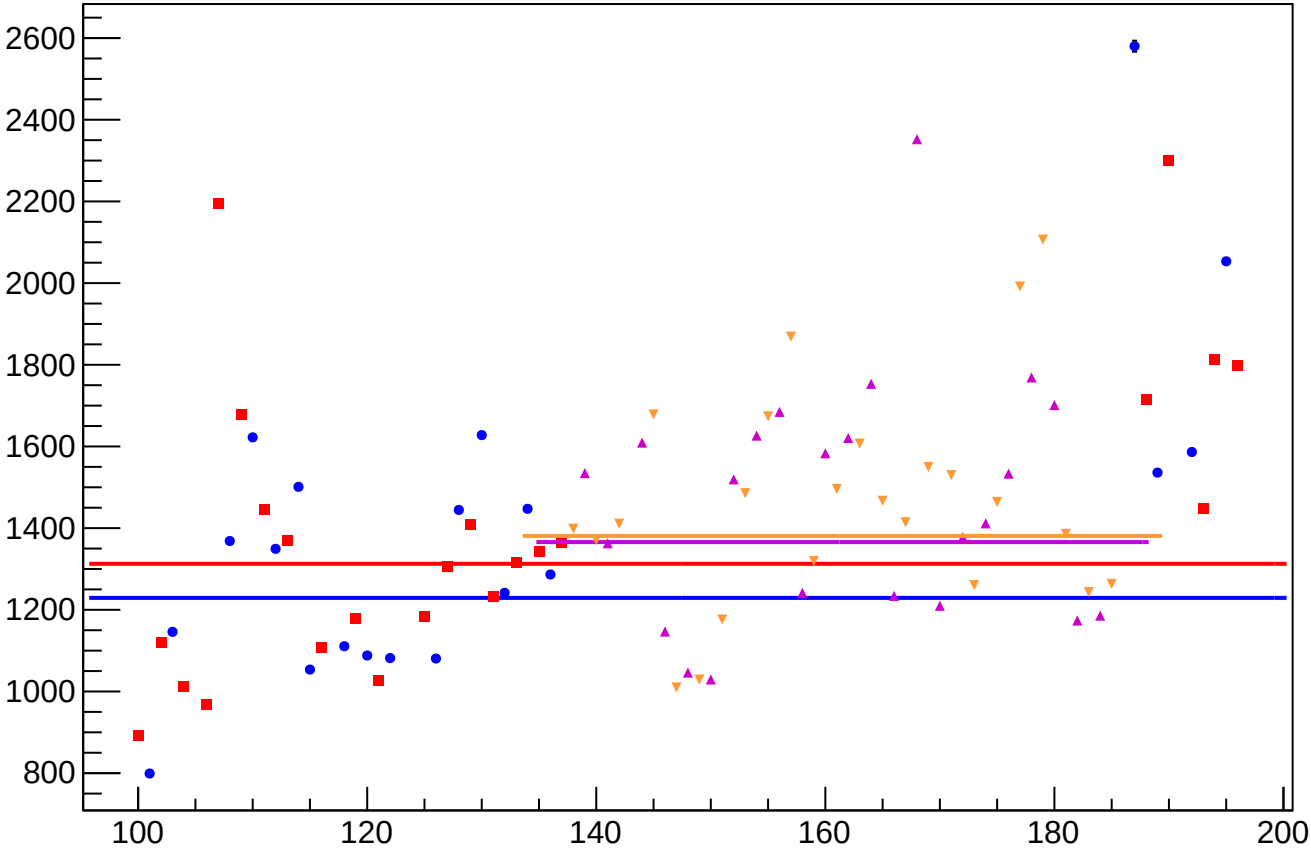
Right: -262.418+/-288.987 $\chi^2$/NDF: 39.7/42

In: -106.317+/-255.559 $\chi^2$/NDF:33.3/42

Out: -236.781+/-255.151 $\chi^2$/NDF:49.1/46

All: -171.653+/-180.563 $\chi^2$/NDF: 82.5/89

asym_us_avg_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 1229.202+/-0.291 $\chi^2$/NDF: 1041087.8/19

Left Out: 1380.952+/-0.232 $\chi^2$/NDF:1155437.6/23

Right Out: 1312.693+/-0.287 $\chi^2$/NDF: 977223.6/22

Left In: 1365.811+/-0.231 $\chi^2$/NDF:1308862.5/22

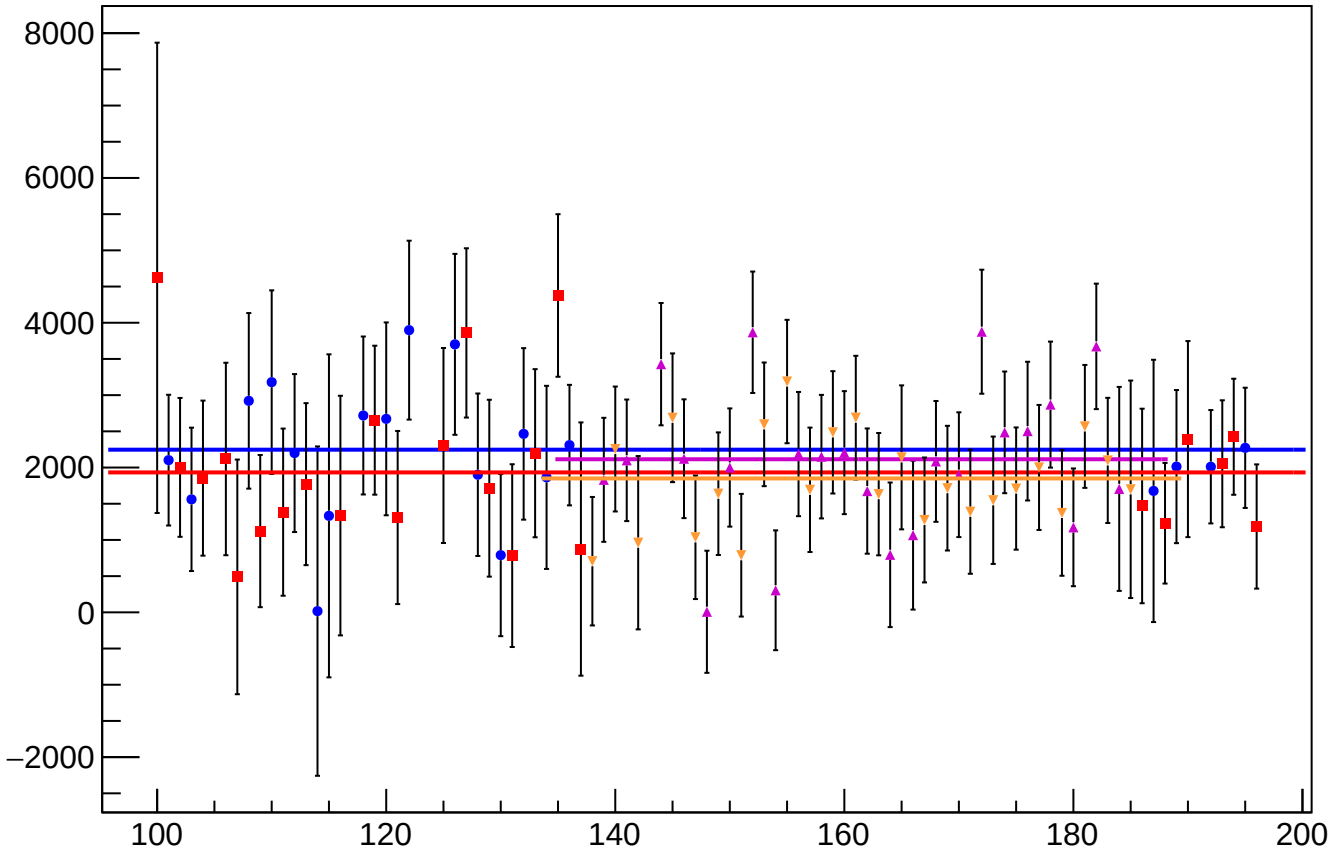
Left: 1373.338+/-0.164 $\chi^2$/NDF: 2466443.3/46

Right: 1271.490+/-0.204 $\chi^2$/NDF: 2060038.5/42

In: 1313.089+/-0.181 $\chi^2$/NDF:2485386.8/42

Out: 1354.001+/-0.180 $\chi^2$/NDF:2166862.8/46

All: 1333.578+/-0.128 $\chi^2$/NDF: 4677918.4/89




Right In: 2246.635+/-248.947 $\chi^2$/NDF: 8.1/19

Left Out: 1849.592+/-180.739 $\chi^2$/NDF:12.8/23

Right Out: 1932.487+/-231.474 $\chi^2$/NDF: 14.2/23

Left In: 2114.442+/-182.028 $\chi^2$/NDF:31.1/22

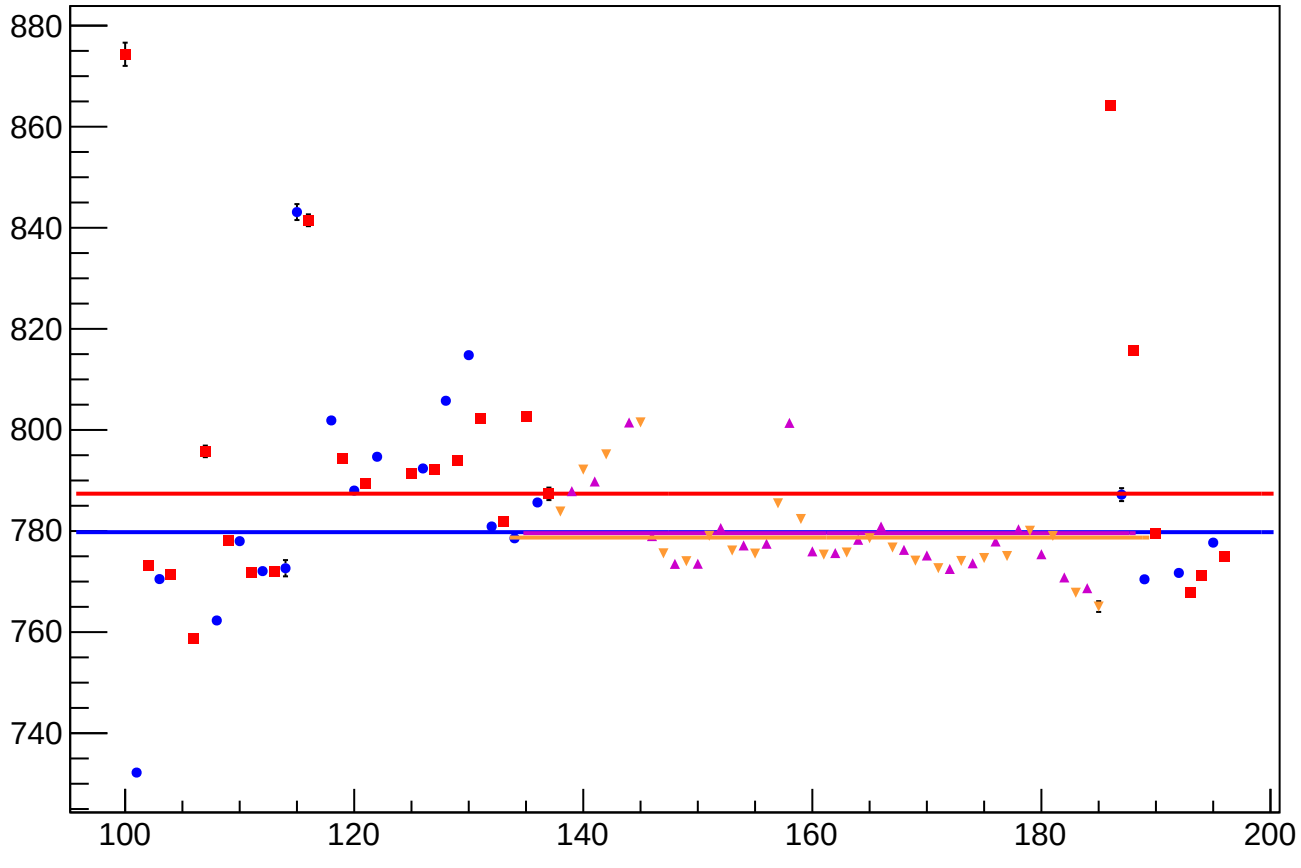
Left: 1981.076+/-128.255 $\chi^2$/NDF: 45.0/46

Right: 2078.150+/-169.518 $\chi^2$/NDF: 23.1/43

In: 2160.495+/-146.938 $\chi^2$/NDF:39.3/42

Out: 1880.989+/-142.457 $\chi^2$/NDF:27.1/47

All: 2016.415+/-102.280 $\chi^2$/NDF: 68.3/90




Right In: 779.778+/-0.176 $\chi^2$/NDF: 12816.4/19

Left Out: 778.708+/-0.128 $\chi^2$/NDF:3389.8/23

Right Out: 787.392+/-0.164 $\chi^2$/NDF: 18404.8/23

Left In: 779.575+/-0.129 $\chi^2$/NDF:4172.9/22

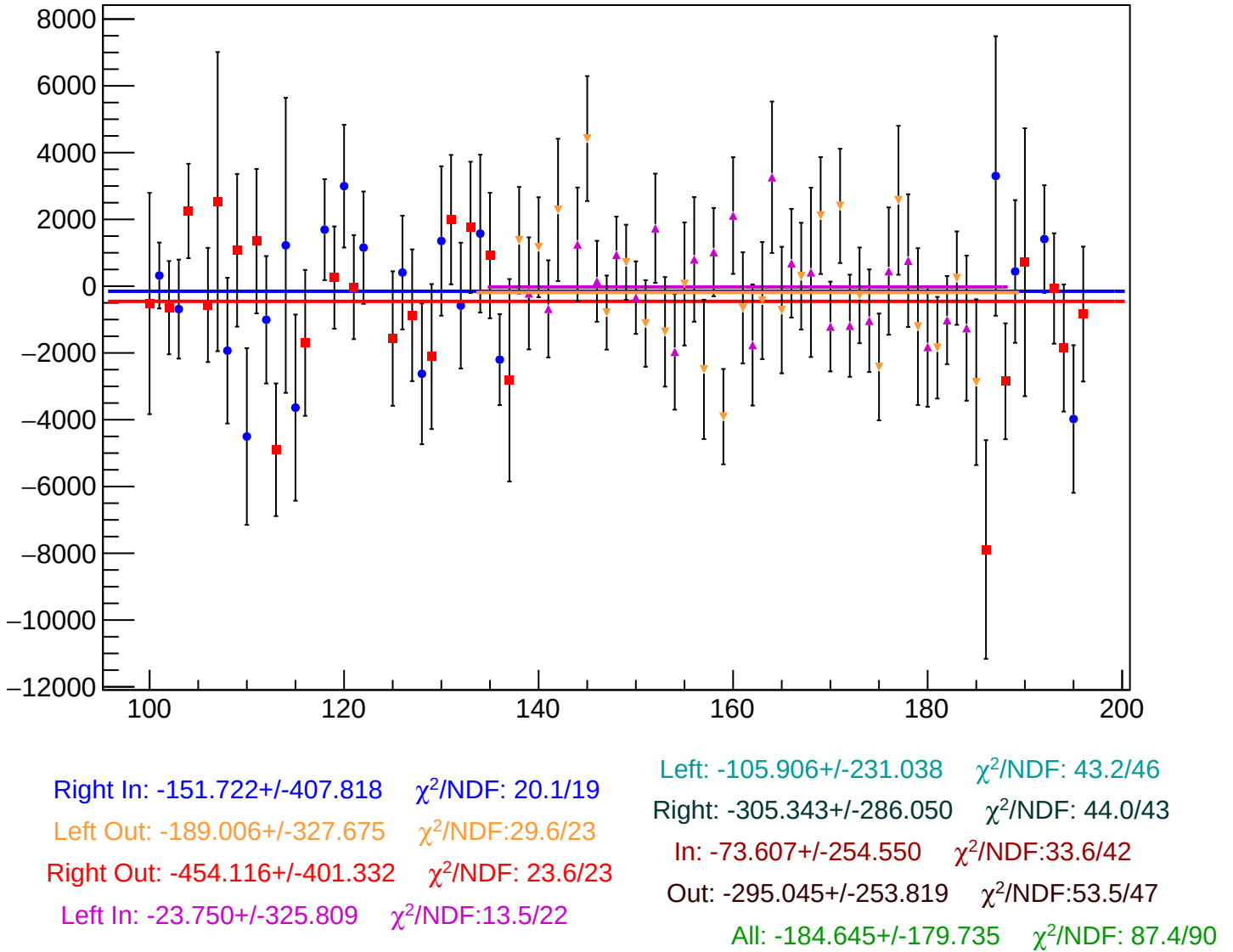
Left: 779.138+/-0.091 $\chi^2$/NDF: 7585.5/46

Right: 783.862+/-0.120 $\chi^2$/NDF: 32224.7/43

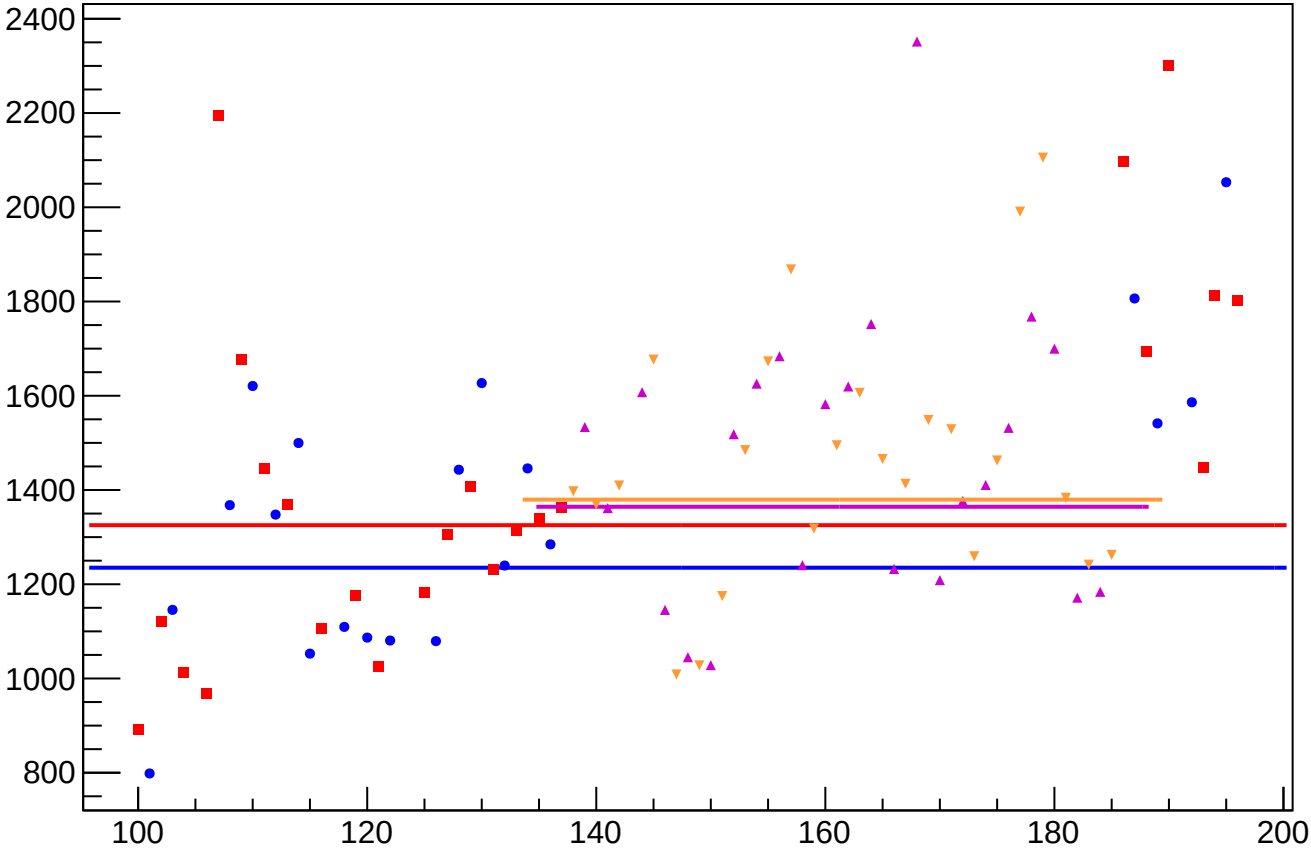
In: 779.646+/-0.104 $\chi^2$/NDF:16990.2/42

Out: 781.997+/-0.101 $\chi^2$/NDF:23543.2/47

All: 780.858+/-0.072 $\chi^2$/NDF: 40797.6/90


asym_us_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -151.722+/-407.818 χ²/NDF: 20.1/19
Left Out: -189.006+/-327.675 χ²/NDF:29.6/23
Right Out: -454.116+/-401.332 χ²/NDF: 23.6/23
Left In: -23.750+/-325.809 χ²/NDF:13.5/22
Left: -105.906+/-231.038 χ²/NDF: 43.2/46
Right: -305.343+/-286.050 χ²/NDF: 44.0/43
In: -73.607+/-254.550 χ²/NDF:33.6/42
Out: -295.045+/-253.819 χ²/NDF:53.5/47
All: -184.645+/-179.735 χ²/NDF: 87.4/90

# asym_us_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1235.085+/-0.288 $\chi^2$/NDF: 1079093.0/19

Left Out: 1379.536+/-0.232 $\chi^2$/NDF:1158468.5/23

Right Out: 1325.329+/-0.284 $\chi^2$/NDF: 1097712.2/23

Left In: 1364.412+/-0.230 $\chi^2$/NDF:1312299.5/22

Left: 1371.931+/-0.163 $\chi^2$/NDF: 2472910.6/46

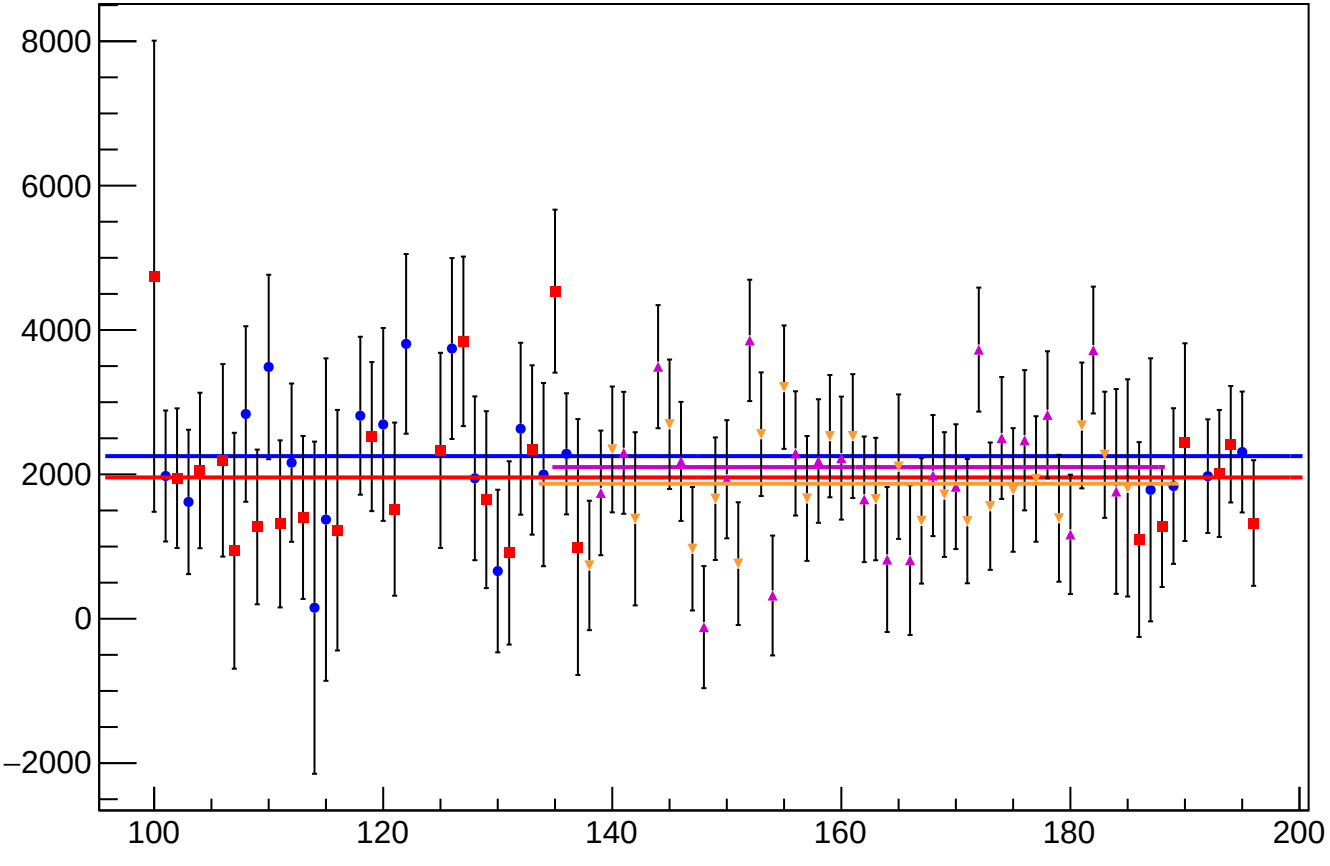
Right: 1280.930+/-0.202 $\chi^2$/NDF: 2226557.0/43

In: 1314.027+/-0.180 $\chi^2$/NDF:2514162.8/42

Out: 1357.854+/-0.179 $\chi^2$/NDF:2278073.5/47

All: 1336.003+/-0.127 $\chi^2$/NDF: 4821965.6/90

# dit_asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2252.750+/-250.663 $\chi^2$/NDF: 8.6/19

Left Out: 1871.457+/-181.976 $\chi^2$/NDF:12.5/23

Right Out: 1957.925+/-233.063 $\chi^2$/NDF: 13.8/23

Left In: 2101.047+/-183.179 $\chi^2$/NDF:31.8/22

Left: 1985.496+/-129.100 $\chi^2$/NDF: 45.0/46

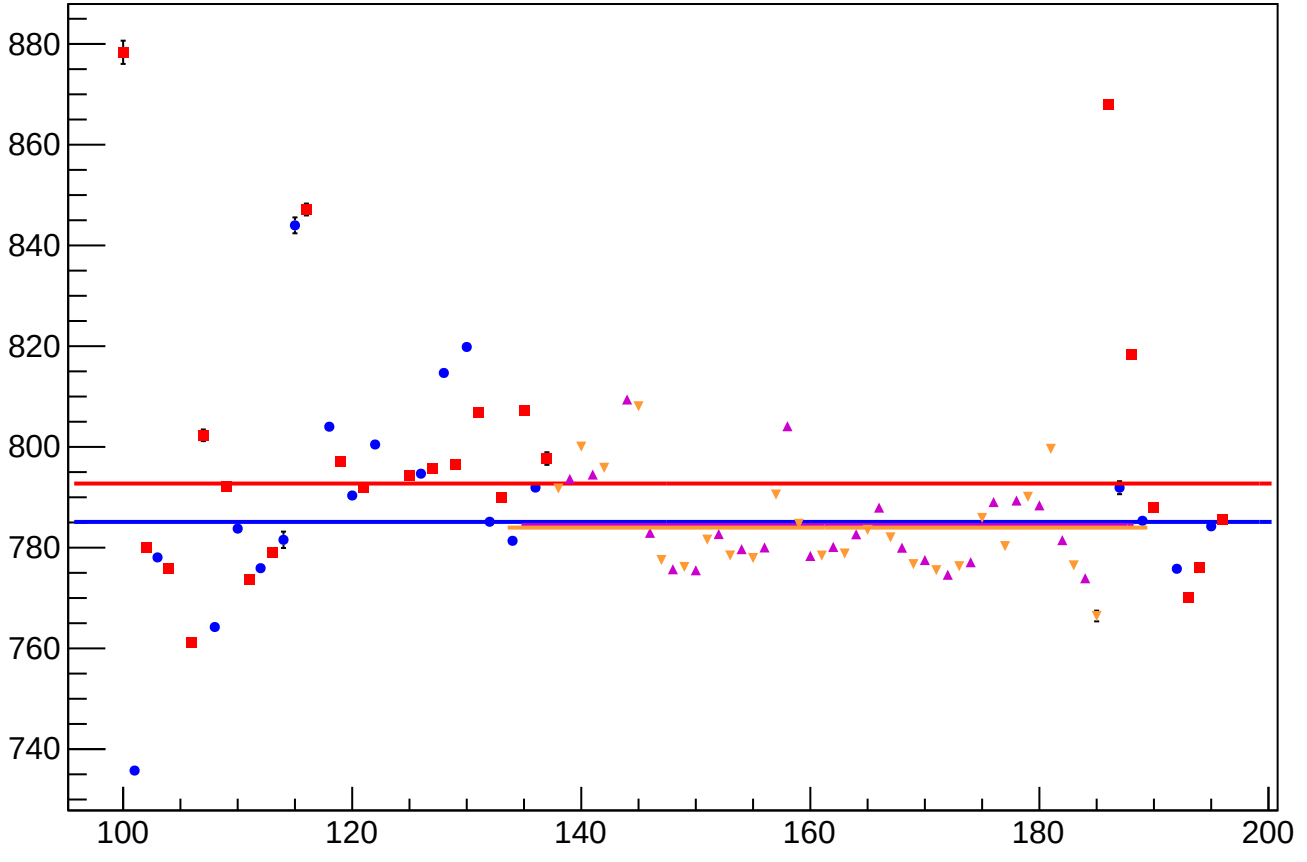
Right: 2094.624+/-170.684 $\chi^2$/NDF: 23.1/43

In: 2153.858+/-147.897 $\chi^2$/NDF:40.5/42

Out: 1904.207+/-143.433 $\chi^2$/NDF:26.4/47

All: 2025.208+/-102.964 $\chi^2$/NDF: 68.4/90

# dit_asym_us_avg_rms vs Slug, Sign Corrected




Right In: 785.112+/-0.177 $\chi^2$/NDF: 12914.3/19

Left Out: 783.982+/-0.129 $\chi^2$/NDF:4928.0/23

Right Out: 792.730+/-0.165 $\chi^2$/NDF: 17482.3/23

Left In: 784.473+/-0.130 $\chi^2$/NDF:4927.7/22

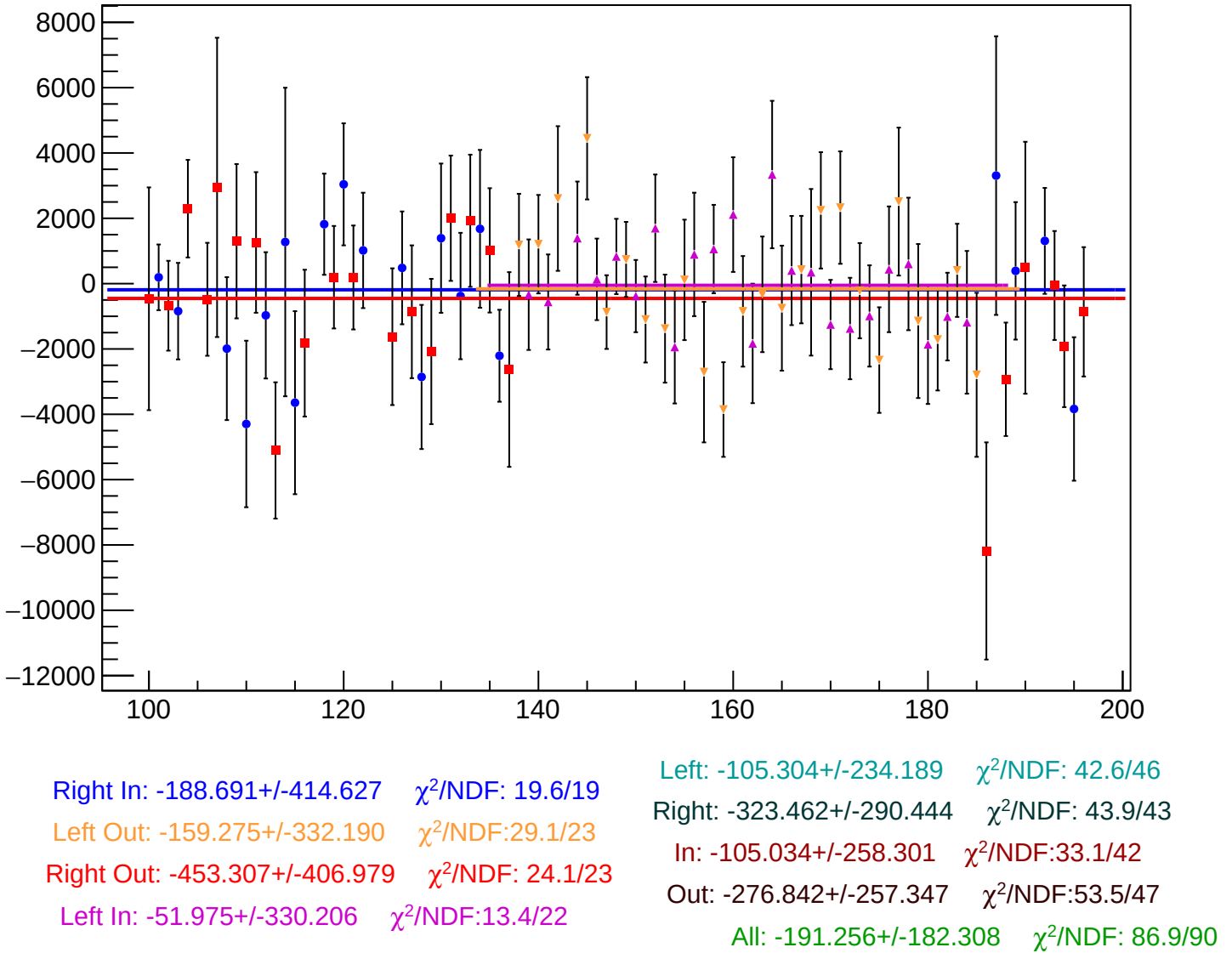
Left: 784.225+/-0.091 $\chi^2$/NDF: 9863.0/46

Right: 789.198+/-0.121 $\chi^2$/NDF: 31387.6/43

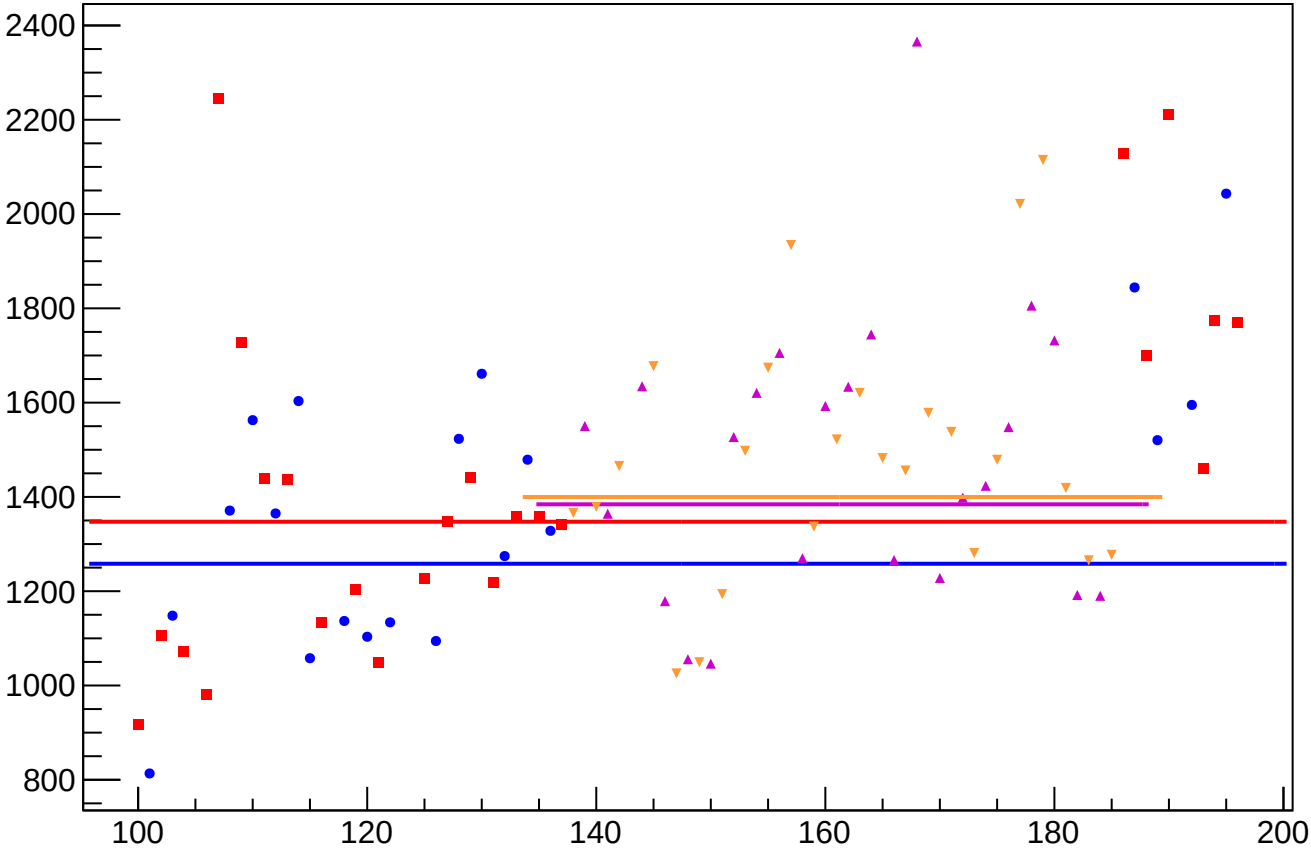
In: 784.695+/-0.105 $\chi^2$/NDF:17850.5/42

Out: 787.295+/-0.101 $\chi^2$/NDF:24161.1/47

All: 786.035+/-0.073 $\chi^2$/NDF: 42330.1/90


asym_us_avg_dit_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -188.691+/-414.627 χ²/NDF: 19.6/19
Left Out: -159.275+/-332.190 χ²/NDF:29.1/23
Right Out: -453.307+/-406.979 χ²/NDF: 24.1/23
Left In: -51.975+/-330.206 χ²/NDF:13.4/22
Left: -105.304+/-234.189 χ²/NDF: 42.6/46
Right: -323.462+/-290.444 χ²/NDF: 43.9/43
In: -105.034+/-258.301 χ²/NDF:33.1/42
Out: -276.842+/-257.347 χ²/NDF:53.5/47
All: -191.256+/-182.308 χ²/NDF: 86.9/90

# asym_us_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 1258.248+/-0.293 $\chi^2$/NDF: 1040800.2/19

Left Out: 1399.717+/-0.235 $\chi^2$/NDF:1136350.2/23

Right Out: 1347.349+/-0.288 $\chi^2$/NDF: 1010079.5/23

Left In: 1384.333+/-0.233 $\chi^2$/NDF:1269936.6/22

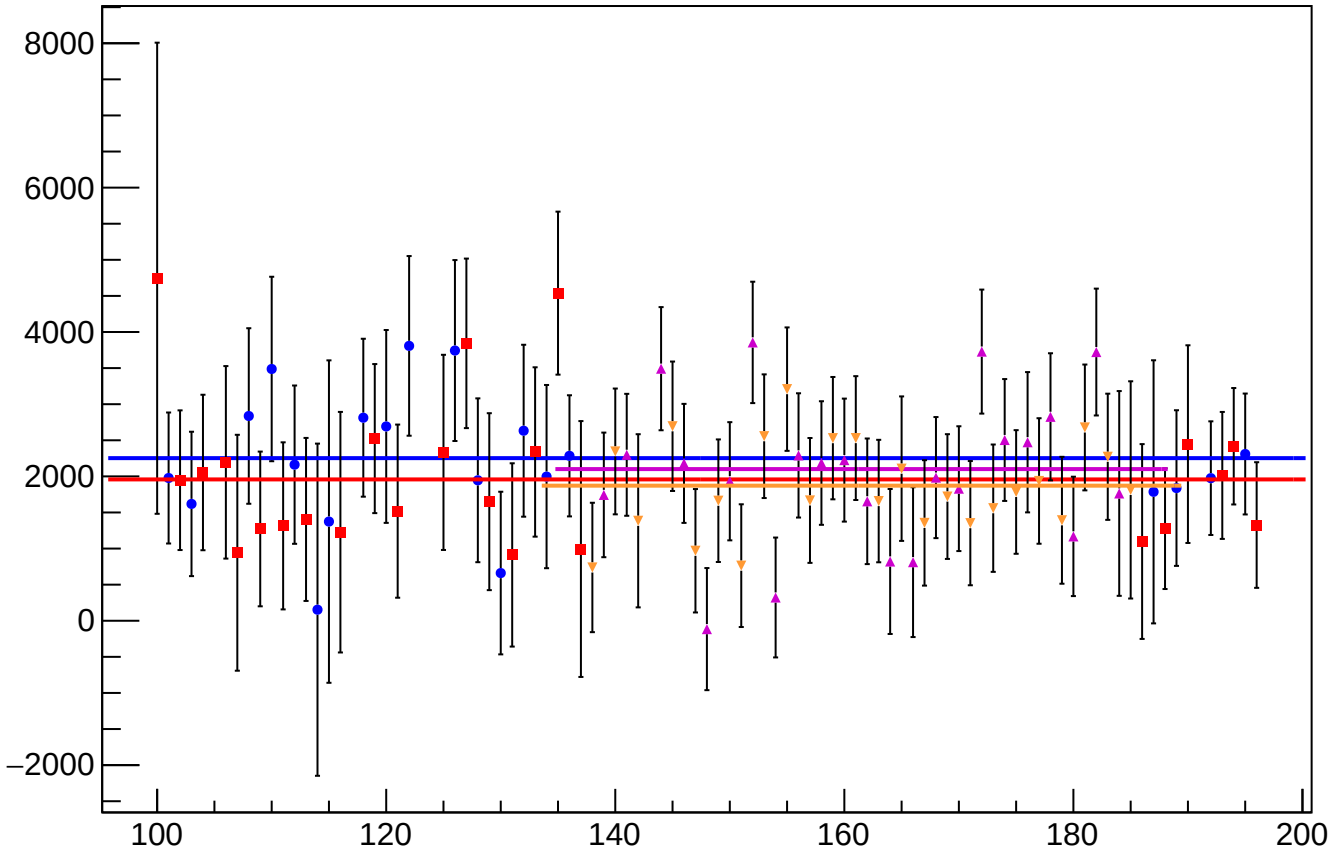
Left: 1391.979+/-0.166 $\chi^2$/NDF: 2408444.2/46

Right: 1303.628+/-0.205 $\chi^2$/NDF: 2097919.2/43

In: 1335.400+/-0.183 $\chi^2$/NDF:2423906.9/42

Out: 1378.778+/-0.182 $\chi^2$/NDF:2166303.6/47

All: 1357.169+/-0.129 $\chi^2$/NDF: 4618516.8/90




Right In: 2252.748+/-250.663 $\chi^2$/NDF: 8.6/19

Left Out: 1871.455+/-181.976 $\chi^2$/NDF:12.5/23

Right Out: 1957.923+/-233.063 $\chi^2$/NDF: 13.8/23

Left In: 2101.047+/-183.179 $\chi^2$/NDF:31.8/22

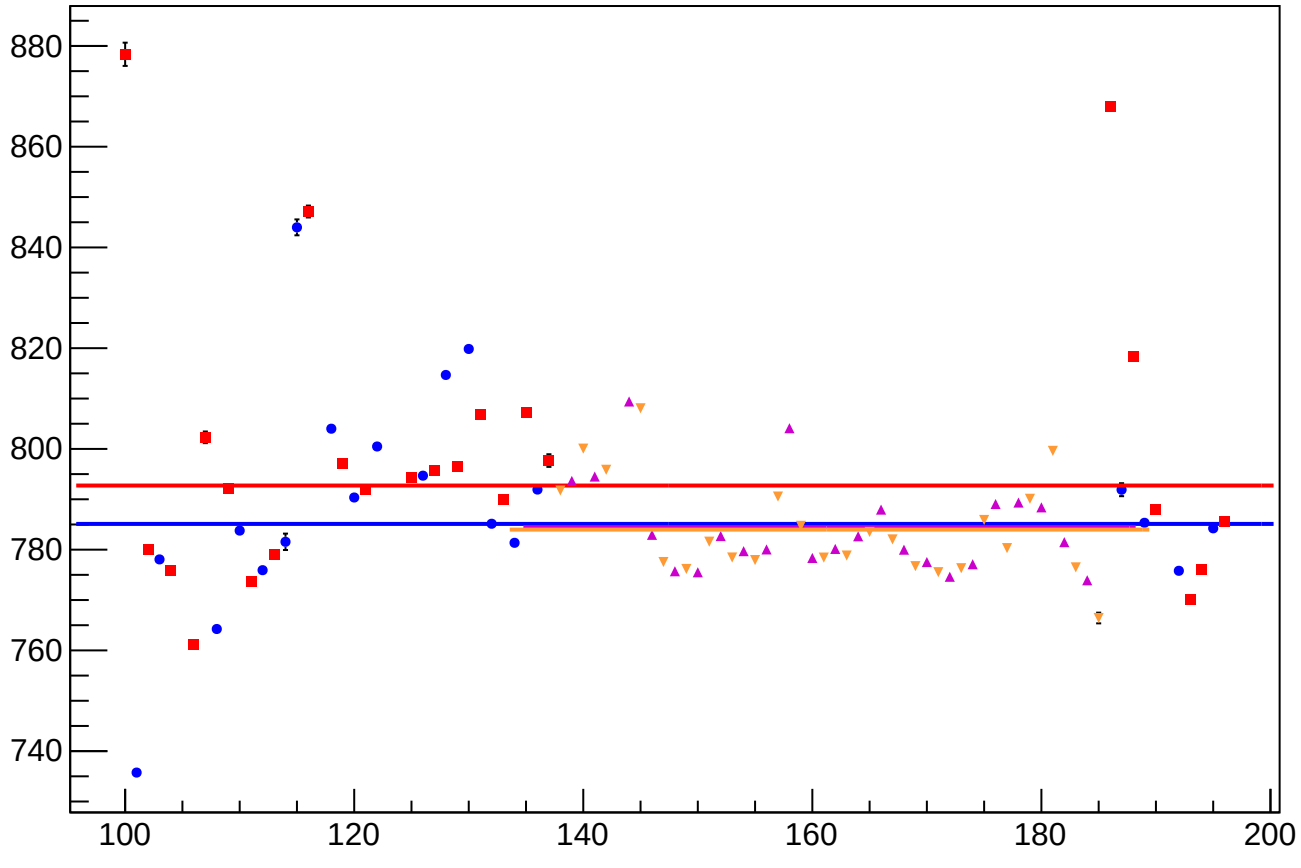
Left: 1985.495+/-129.100 $\chi^2$/NDF: 45.0/46

Right: 2094.623+/-170.683 $\chi^2$/NDF: 23.1/43

In: 2153.858+/-147.897 $\chi^2$/NDF:40.5/42

Out: 1904.205+/-143.433 $\chi^2$/NDF:26.4/47

All: 2025.207+/-102.964 $\chi^2$/NDF: 68.4/90




Right In: 785.111+/-0.177 $\chi^2$/NDF: 12914.3/19

Left Out: 783.982+/-0.129 $\chi^2$/NDF:4928.0/23

Right Out: 792.730+/-0.165 $\chi^2$/NDF: 17482.3/23

Left In: 784.473+/-0.130 $\chi^2$/NDF:4927.7/22

Left: 784.225+/-0.091 $\chi^2$/NDF: 9863.0/46

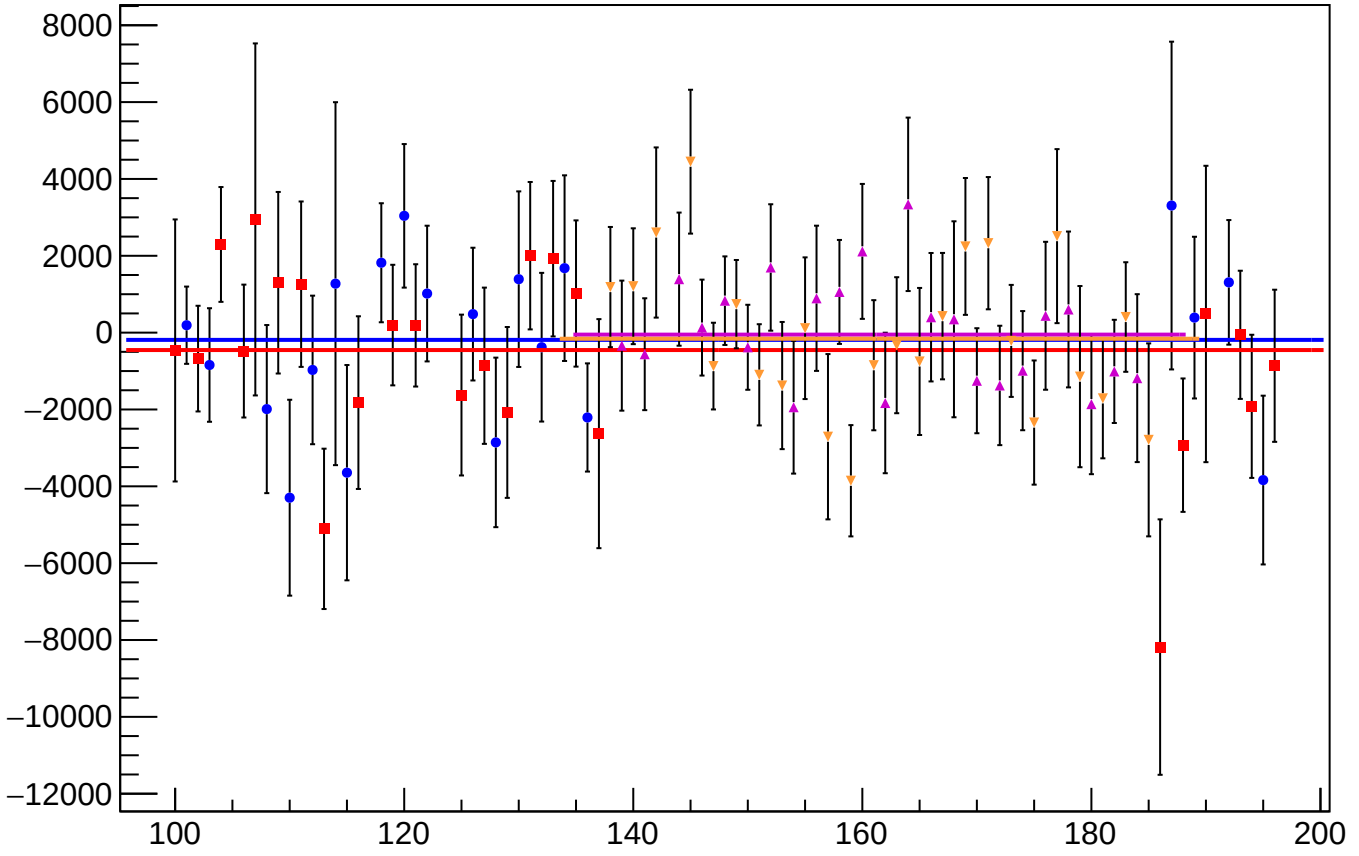
Right: 789.197+/-0.121 $\chi^2$/NDF: 31387.5/43

In: 784.695+/-0.105 $\chi^2$/NDF:17850.5/42

Out: 787.295+/-0.101 $\chi^2$/NDF:24161.0/47

All: 786.035+/-0.073 $\chi^2$/NDF: 42330.0/90

asym_us_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -188.690+/-414.626 $\chi^2$/NDF: 19.6/19

Left Out: -159.278+/-332.191 $\chi^2$/NDF:29.1/23

Right Out: -453.304+/-406.978 $\chi^2$/NDF: 24.1/23

Left In: -51.975+/-330.207 $\chi^2$/NDF:13.4/22

Left: -105.305+/-234.190 $\chi^2$/NDF: 42.6/46

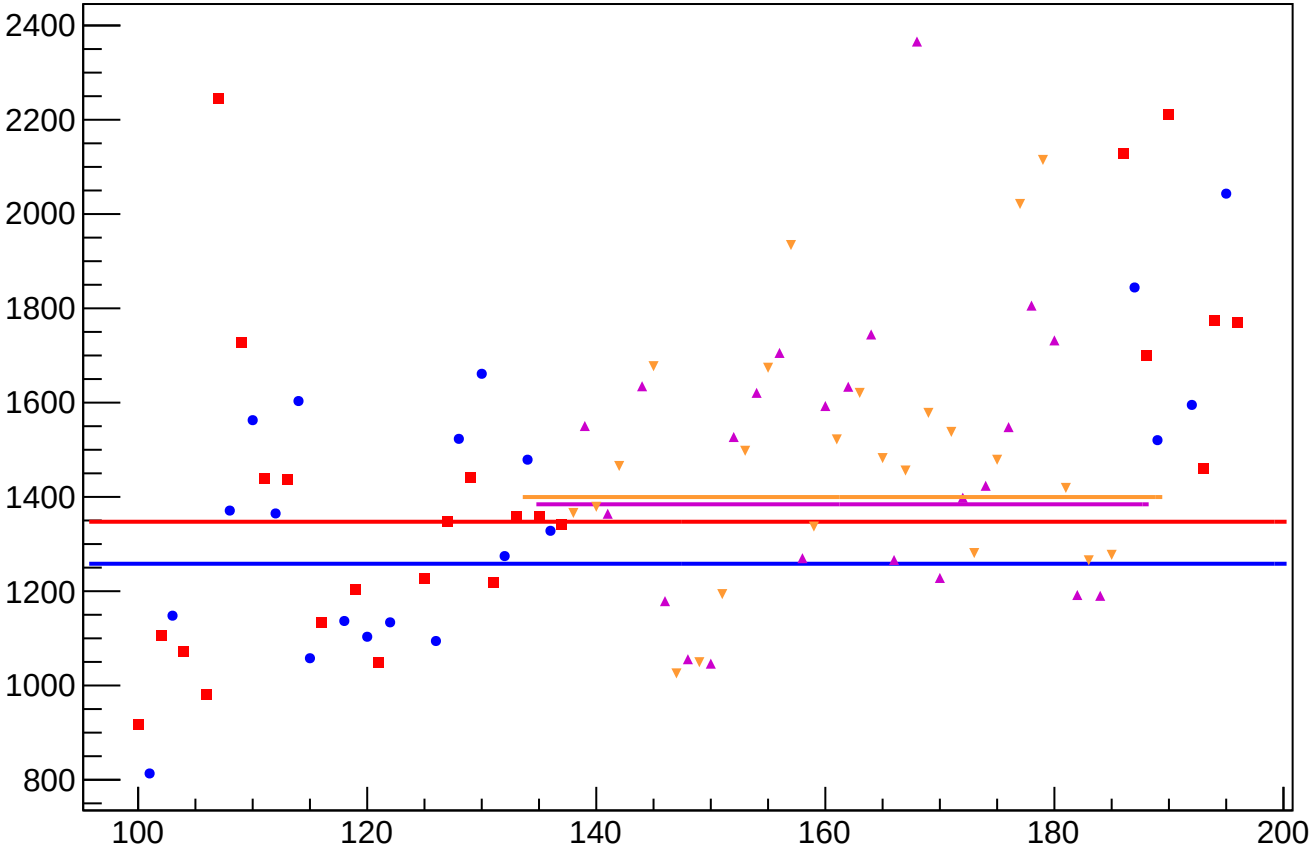
Right: -323.460+/-290.443 $\chi^2$/NDF: 43.9/43

In: -105.034+/-258.301 $\chi^2$/NDF:33.1/42

Out: -276.844+/-257.347 $\chi^2$/NDF:53.5/47

All: -191.257+/-182.308 $\chi^2$/NDF: 86.9/90

asym_us_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1258.245+/-0.293 $\chi^2$/NDF: 1040803.6/19

Left Out: 1399.720+/-0.235 $\chi^2$/NDF:1136351.3/23

Right Out: 1347.346+/-0.288 $\chi^2$/NDF: 1010087.5/23

Left In: 1384.336+/-0.233 $\chi^2$/NDF:1269937.1/22

Left: 1391.982+/-0.166 $\chi^2$/NDF: 2408445.8/46

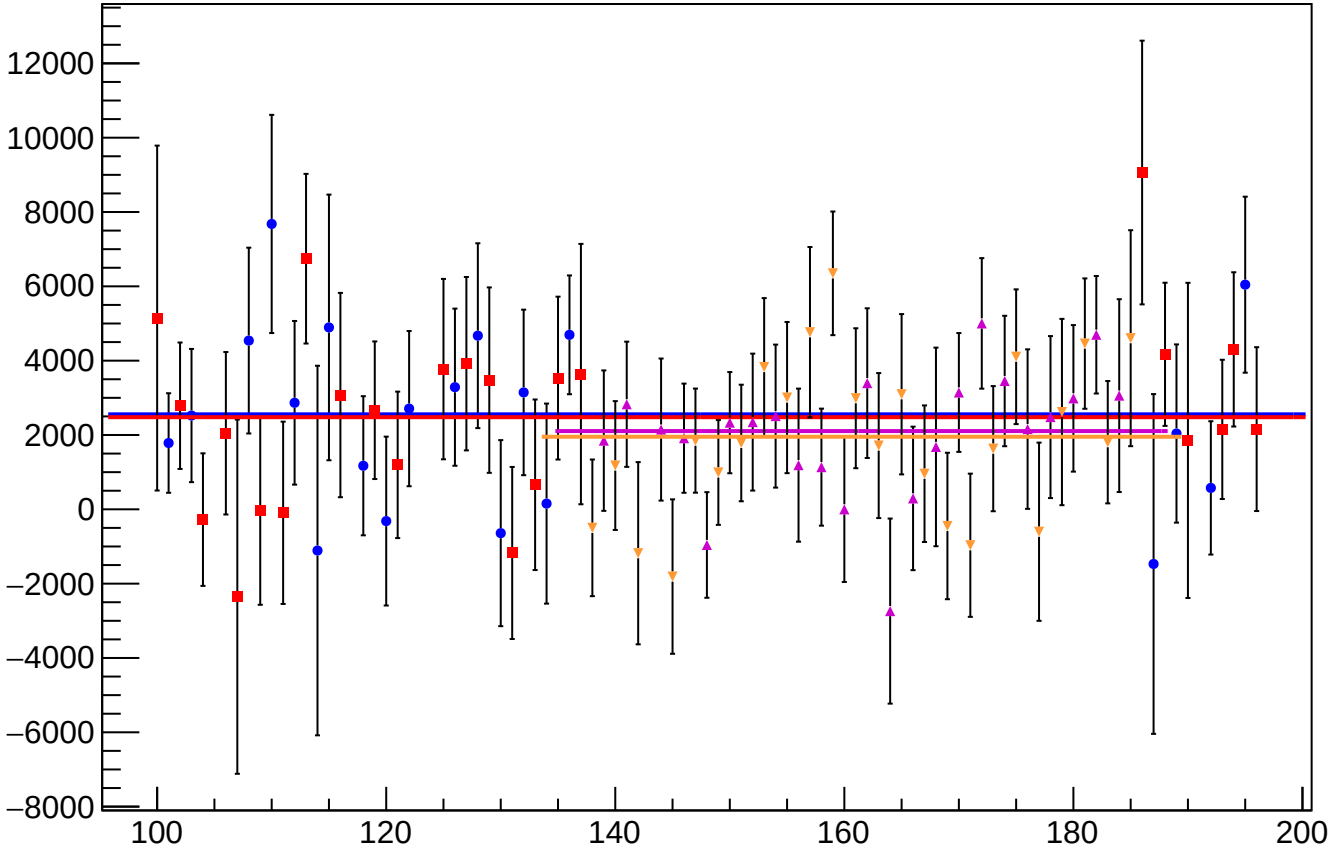
Right: 1303.625+/-0.205 $\chi^2$/NDF: 2097930.6/43

In: 1335.400+/-0.183 $\chi^2$/NDF:2423920.8/42

Out: 1378.778+/-0.182 $\chi^2$/NDF:2166317.1/47

All: 1357.170+/-0.129 $\chi^2$/NDF: 4618544.1/90

# asym_us_avg_mean vs Slug, Sign Corrected




Right In: 2555.725+/-489.979 $\chi^2$/NDF: 16.5/19

Left Out: 1952.406+/-380.269 $\chi^2$/NDF:27.4/23

Right Out: 2479.304+/-473.305 $\chi^2$/NDF: 19.2/23

Left In: 2105.415+/-379.051 $\chi^2$/NDF:18.6/22

Left: 2029.156+/-268.459 $\chi^2$/NDF: 46.0/46

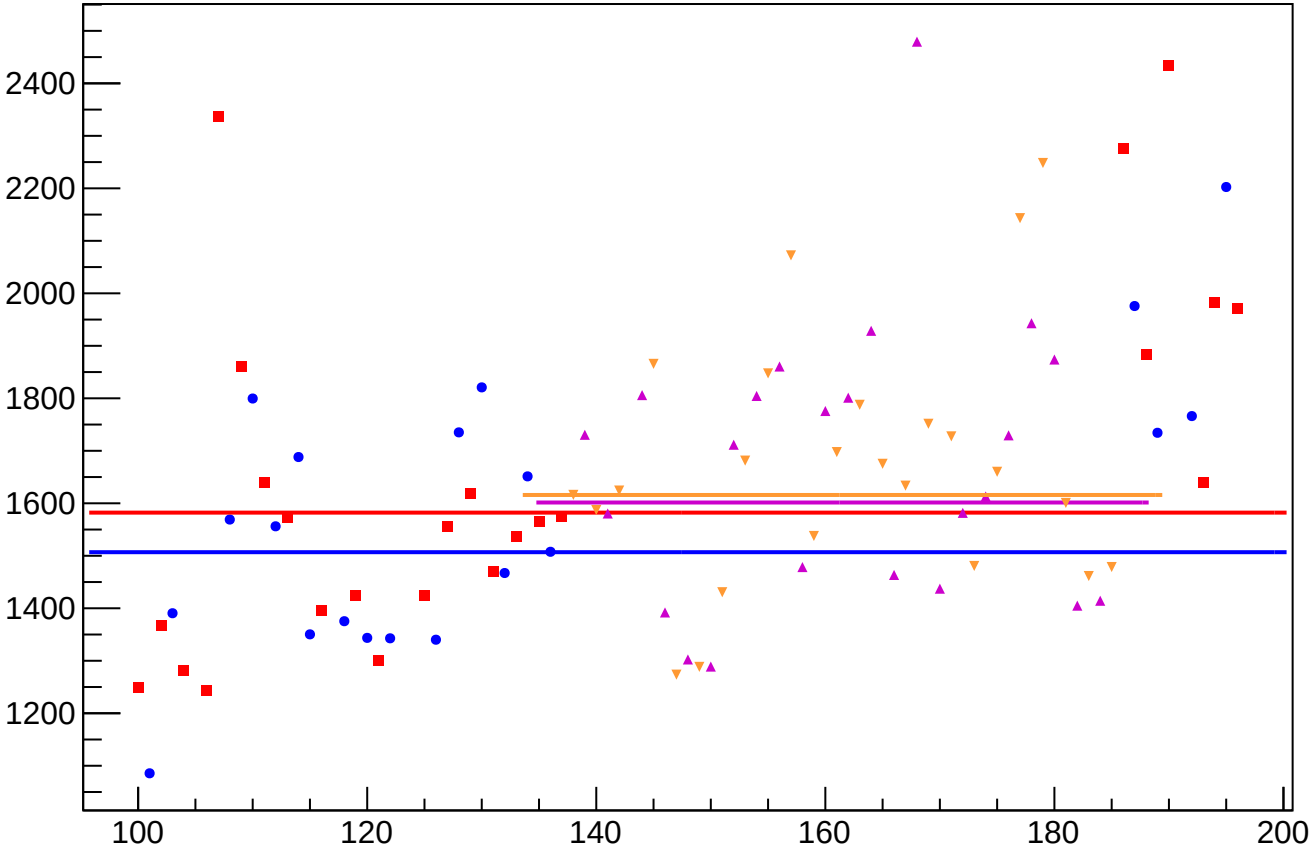
Right: 2516.193+/-340.419 $\chi^2$/NDF: 35.7/43

In: 2274.011+/-299.810 $\chi^2$/NDF:35.6/42

Out: 2159.100+/-296.443 $\chi^2$/NDF:47.3/47

All: 2215.907+/-210.797 $\chi^2$/NDF: 83.0/90

# asym_us_avg_rms vs Slug, Sign Corrected




Right In: 1506.846+/-0.346 $\chi^2$/NDF: 588037.4/19

Left Out: 1615.853+/-0.269 $\chi^2$/NDF:694353.3/23

Right Out: 1582.235+/-0.335 $\chi^2$/NDF: 645297.2/23

Left In: 1601.496+/-0.268 $\chi^2$/NDF:793722.6/22

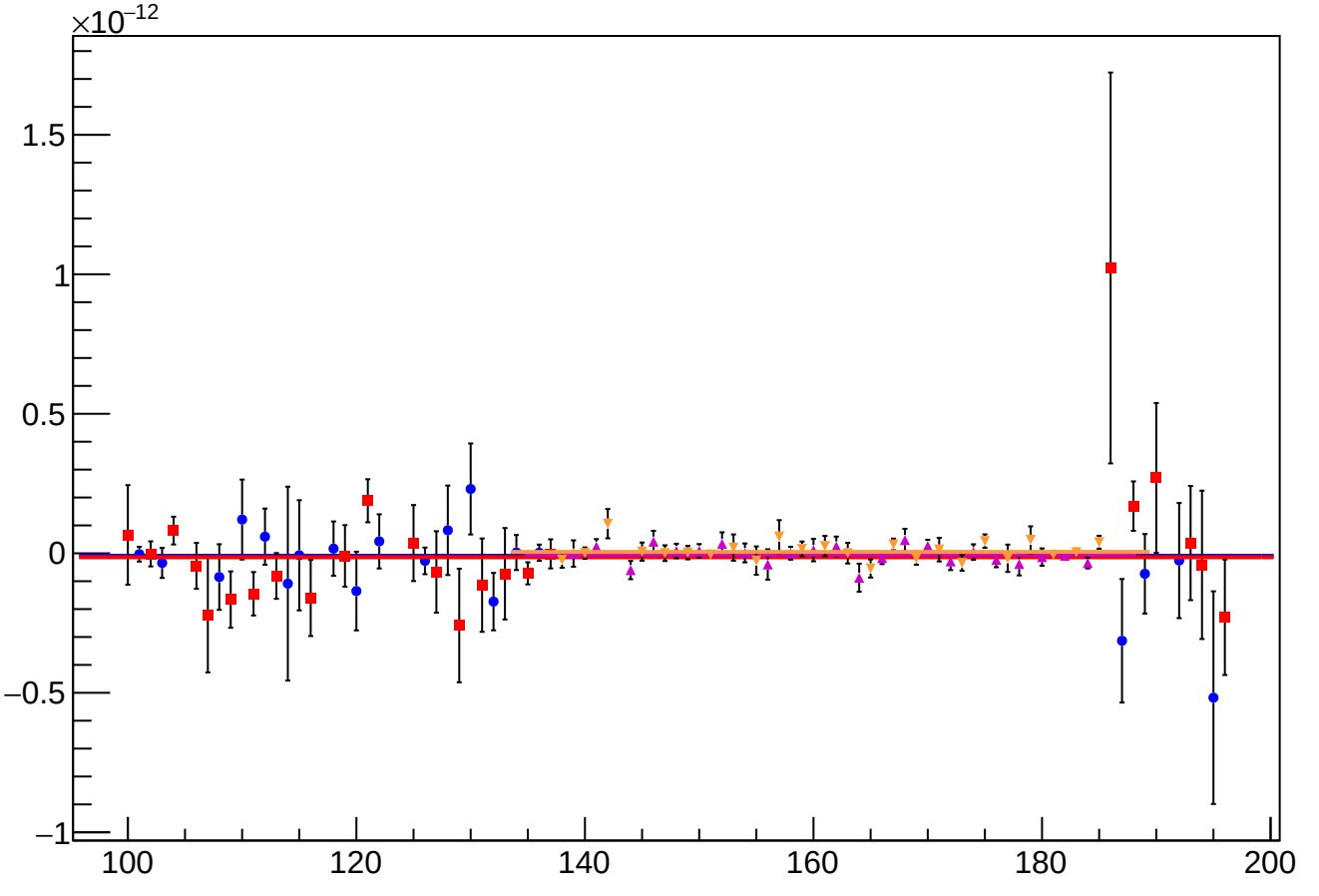
Left: 1608.652+/-0.190 $\chi^2$/NDF: 1489505.9/46

Right: 1545.845+/-0.241 $\chi^2$/NDF: 1257827.4/43

In: 1566.059+/-0.212 $\chi^2$/NDF:1428449.4/42

Out: 1602.665+/-0.210 $\chi^2$/NDF:1345782.6/47

All: 1584.569+/-0.149 $\chi^2$/NDF: 2789308.4/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.0/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.0/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.4/22

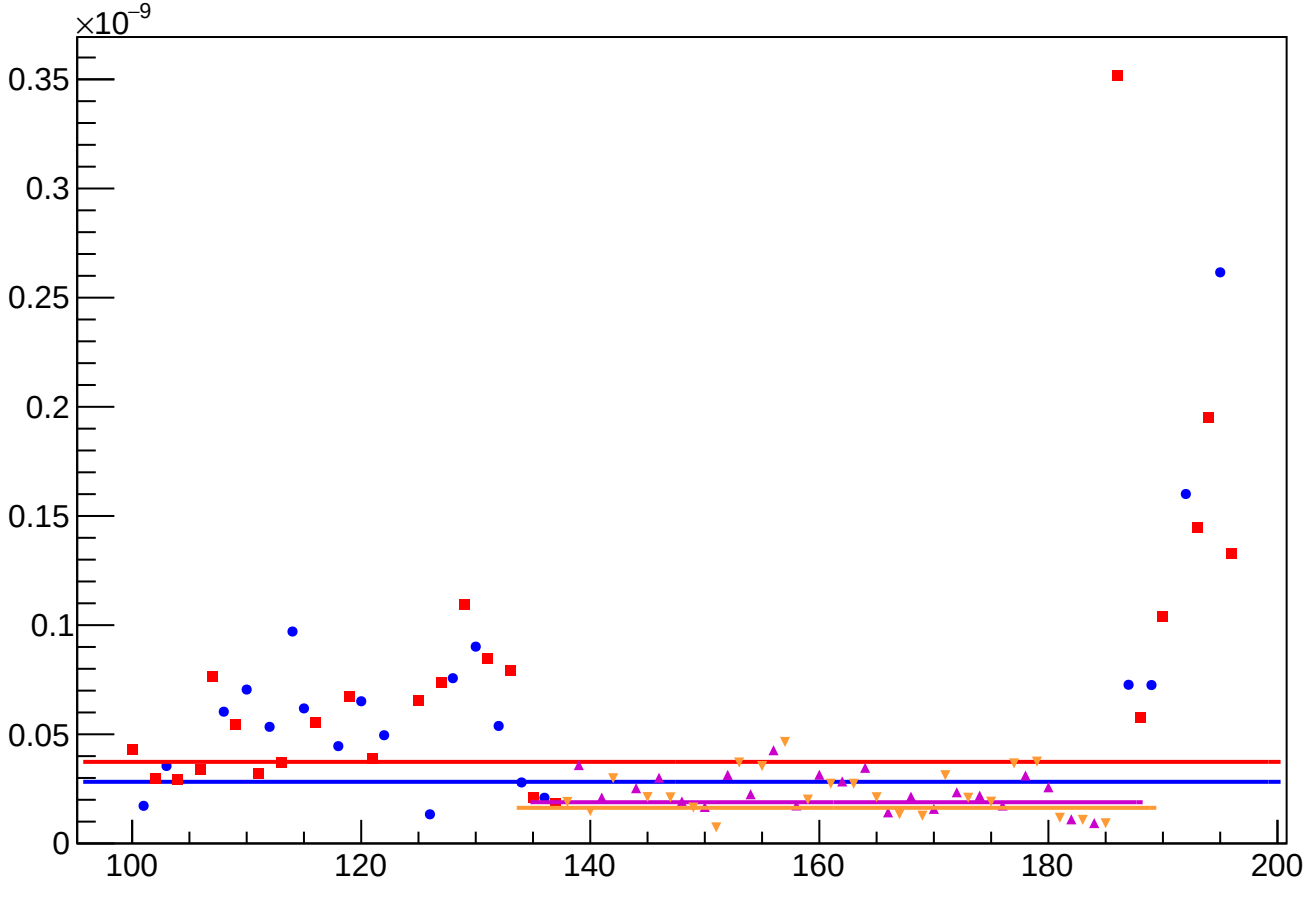
Left: 0.000+/-0.000 $\chi^2$/NDF: 42.0/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.5/43

In: -0.000+/-0.000 $\chi^2$/NDF:31.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:54.1/47

All: -0.000+/-0.000 $\chi^2$/NDF: 87.5/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4006272.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4263140.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4107998.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:3256130.1/22

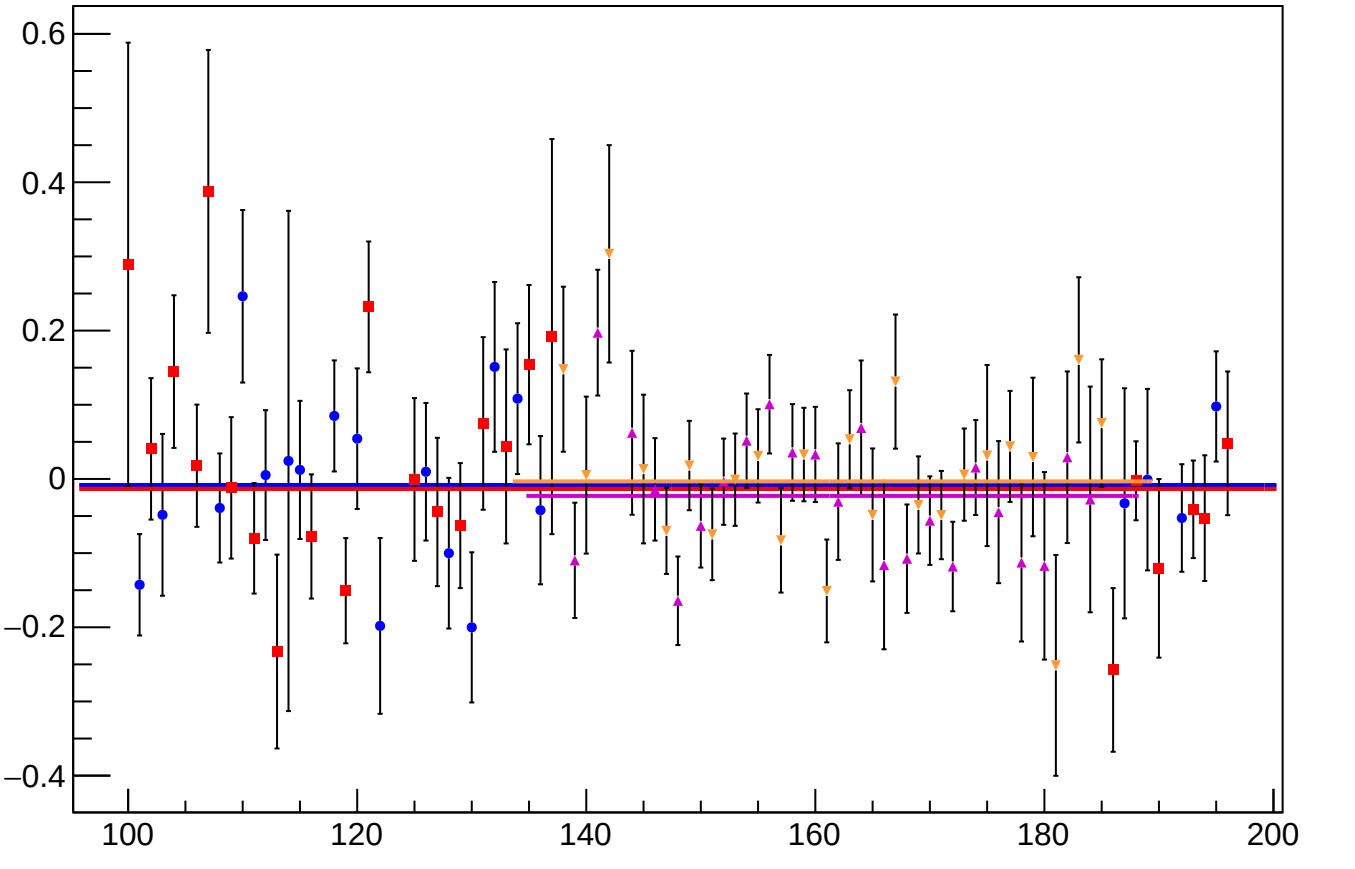
Left: 0.000+/-0.000 $\chi^2$/NDF: 7731818.4/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 8426086.0/43

In: 0.000+/-0.000 $\chi^2$/NDF:7938247.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10989427.4/47

All: 0.000+/-0.000 $\chi^2$/NDF: 19075598.9/90




Right In: -0.008+/-0.021 $\chi^2$/NDF: 23.9/19

Left Out: -0.003+/-0.015 $\chi^2$/NDF:25.9/23

Right Out: -0.014+/-0.019 $\chi^2$/NDF: 34.7/23

Left In: -0.023+/-0.015 $\chi^2$/NDF:29.0/22

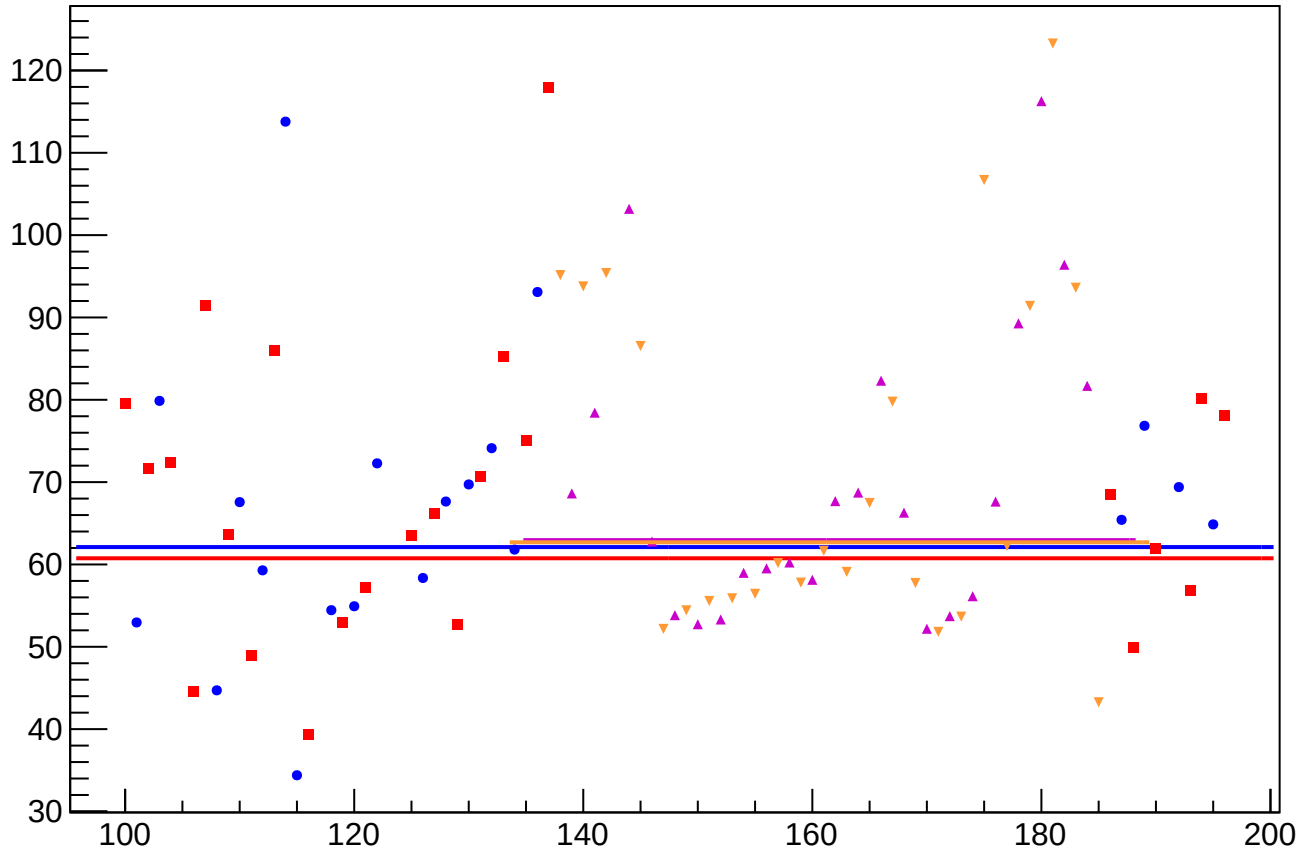
Left: -0.013+/-0.011 $\chi^2$/NDF: 55.7/46

Right: -0.011+/-0.014 $\chi^2$/NDF: 58.6/43

In: -0.018+/-0.012 $\chi^2$/NDF:53.1/42

Out: -0.007+/-0.012 $\chi^2$/NDF:60.8/47

All: -0.012+/-0.009 $\chi^2$/NDF: 114.3/90




Right In: 62.111+/-0.015 $\chi^2$/NDF: 766311.5/19

Left Out: 62.694+/-0.011 $\chi^2$/NDF:1939401.0/23

Right Out: 60.750+/-0.013 $\chi^2$/NDF: 980665.4/23

Left In: 62.956+/-0.011 $\chi^2$/NDF:1430426.1/22

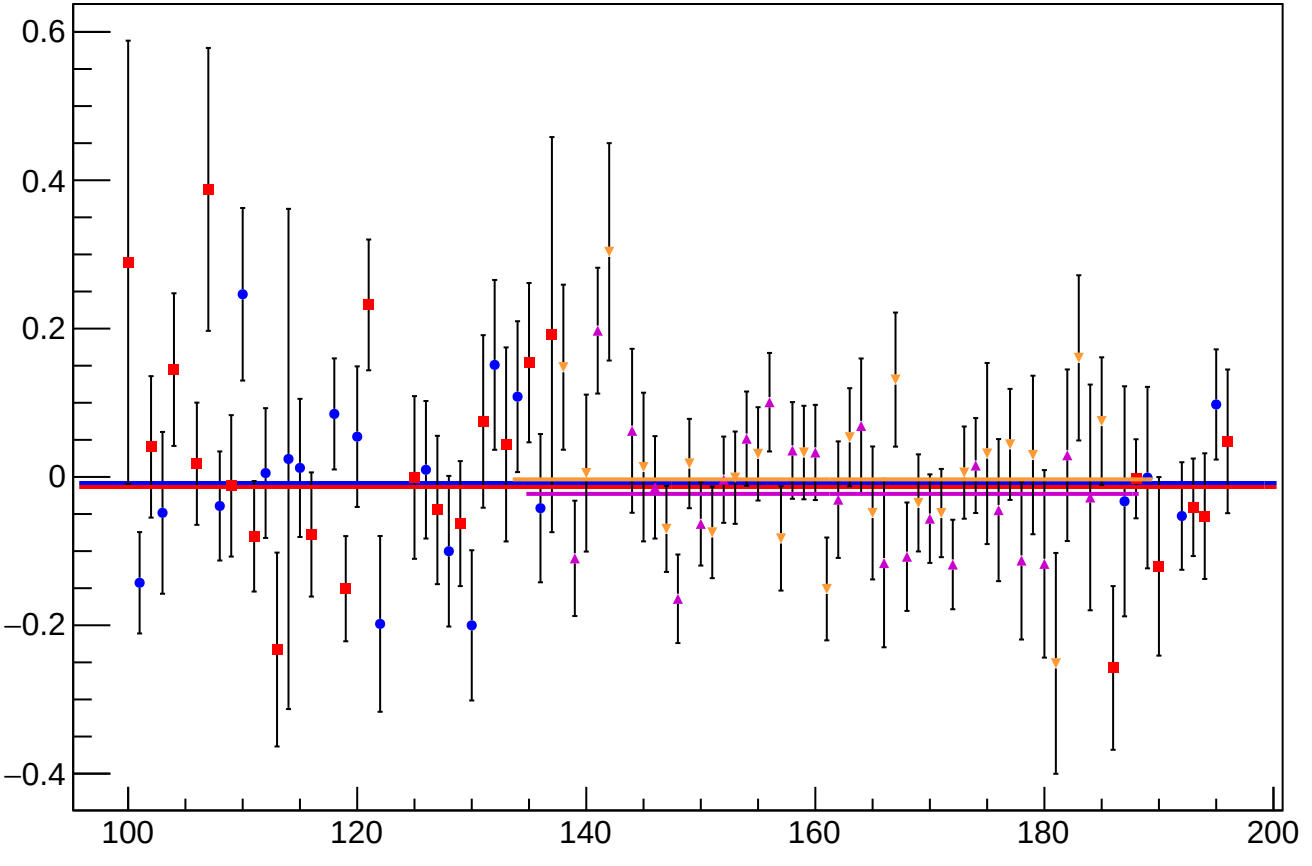
Left: 62.825+/-0.008 $\chi^2$/NDF: 3370112.8/46

Right: 61.361+/-0.010 $\chi^2$/NDF: 1751546.0/43

In: 62.661+/-0.009 $\chi^2$/NDF:2198813.5/42

Out: 61.921+/-0.009 $\chi^2$/NDF:2932581.6/47

All: 62.277+/-0.006 $\chi^2$/NDF: 5135027.3/90




Right In: -0.008+/-0.021 $\chi^2$/NDF: 23.9/19

Left Out: -0.003+/-0.015 $\chi^2$/NDF:25.9/23

Right Out: -0.014+/-0.019 $\chi^2$/NDF: 34.7/23

Left In: -0.023+/-0.015 $\chi^2$/NDF:29.0/22

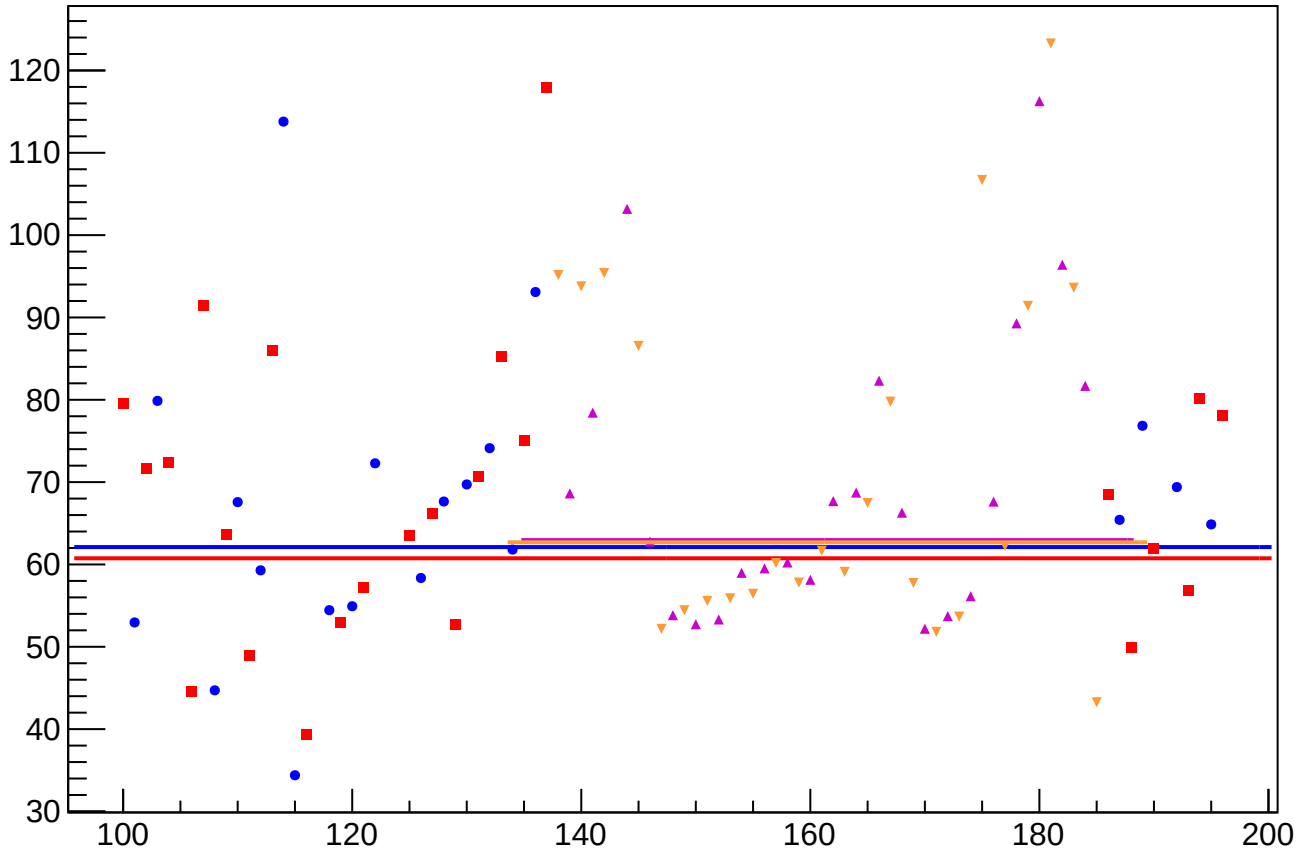
Left: -0.013+/-0.011 $\chi^2$/NDF: 55.7/46

Right: -0.011+/-0.014 $\chi^2$/NDF: 58.6/43

In: -0.018+/-0.012 $\chi^2$/NDF:53.1/42

Out: -0.007+/-0.012 $\chi^2$/NDF:60.8/47

All: -0.012+/-0.009 $\chi^2$/NDF: 114.3/90




Right In: 62.111+/-0.015 $\chi^2$/NDF: 766311.5/19

Left Out: 62.694+/-0.011 $\chi^2$/NDF:1939401.0/23

Right Out: 60.750+/-0.013 $\chi^2$/NDF: 980665.4/23

Left In: 62.956+/-0.011 $\chi^2$/NDF:1430426.1/22

Left: 62.825+/-0.008 $\chi^2$/NDF: 3370112.8/46

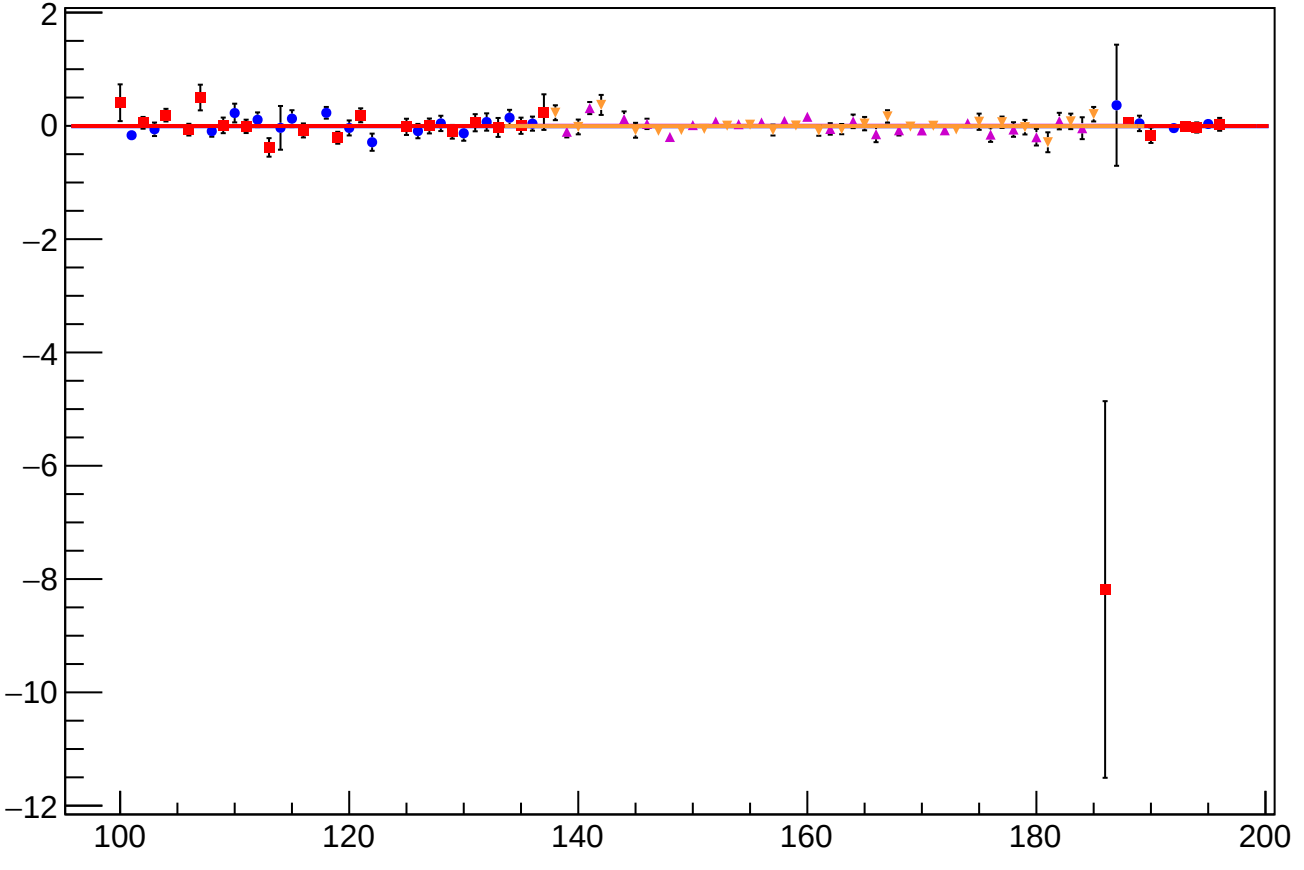
Right: 61.361+/-0.010 $\chi^2$/NDF: 1751546.0/43

In: 62.661+/-0.009 $\chi^2$/NDF:2198813.5/42

Out: 61.921+/-0.009 $\chi^2$/NDF:2932581.6/47

All: 62.277+/-0.006 $\chi^2$/NDF: 5135027.3/90

asym_us_avg_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.027 $\chi^2$/NDF: 20.8/19

Left Out: -0.004+/-0.021 $\chi^2$/NDF:21.4/23

Right Out: -0.002+/-0.025 $\chi^2$/NDF: 32.1/23

Left In: 0.002+/-0.021 $\chi^2$/NDF:30.5/22

Left: -0.001+/-0.015 $\chi^2$/NDF: 51.9/46

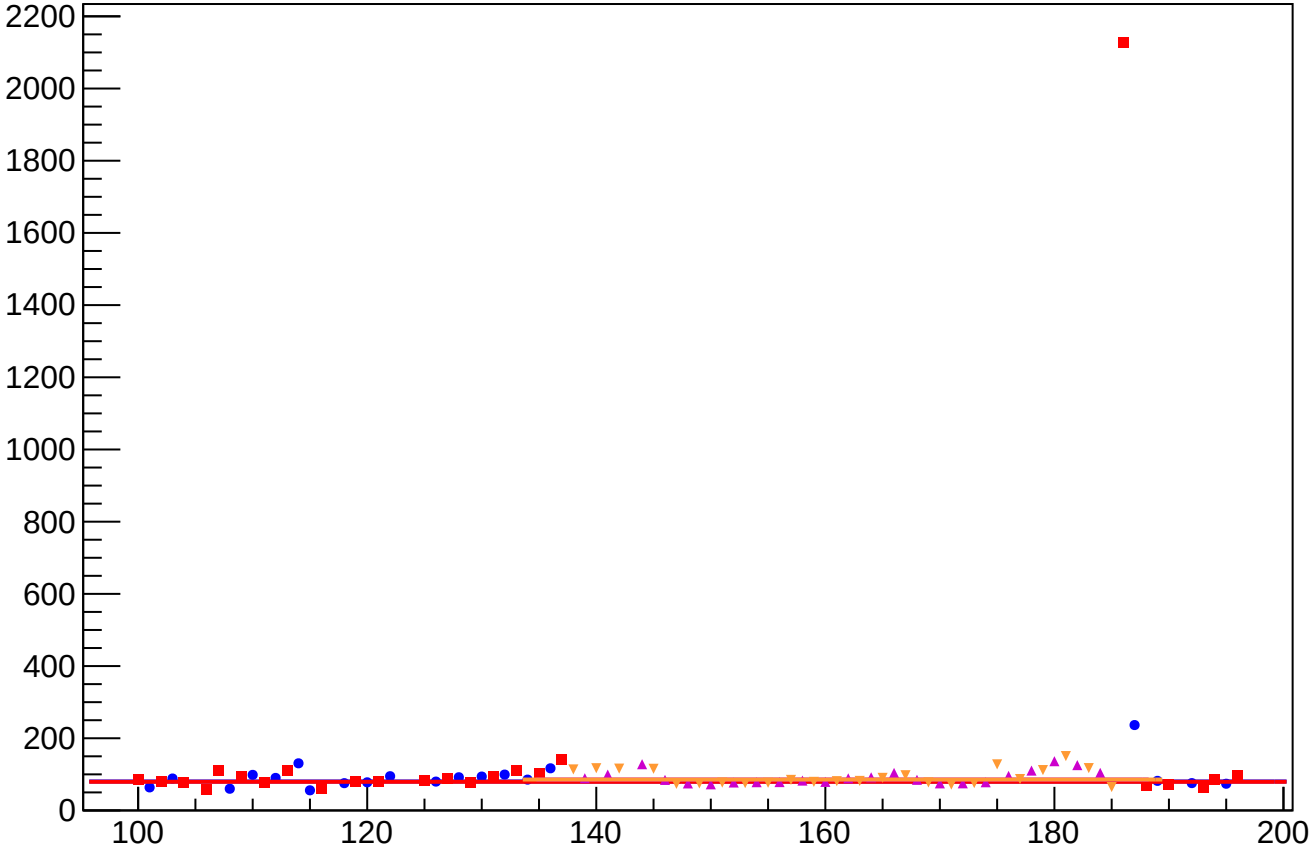
Right: -0.004+/-0.018 $\chi^2$/NDF: 53.0/43

In: -0.001+/-0.016 $\chi^2$/NDF:51.4/42

Out: -0.004+/-0.016 $\chi^2$/NDF:53.5/47

All: -0.003+/-0.011 $\chi^2$/NDF: 105.0/90

asym_us_avg_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 80.274+/-0.019 $\chi^2$/NDF: 626473.6/19

Left Out: 85.650+/-0.015 $\chi^2$/NDF:1352748.5/23

Right Out: 79.418+/-0.018 $\chi^2$/NDF: 1457074.8/23

Left In: 85.679+/-0.015 $\chi^2$/NDF:995870.4/22

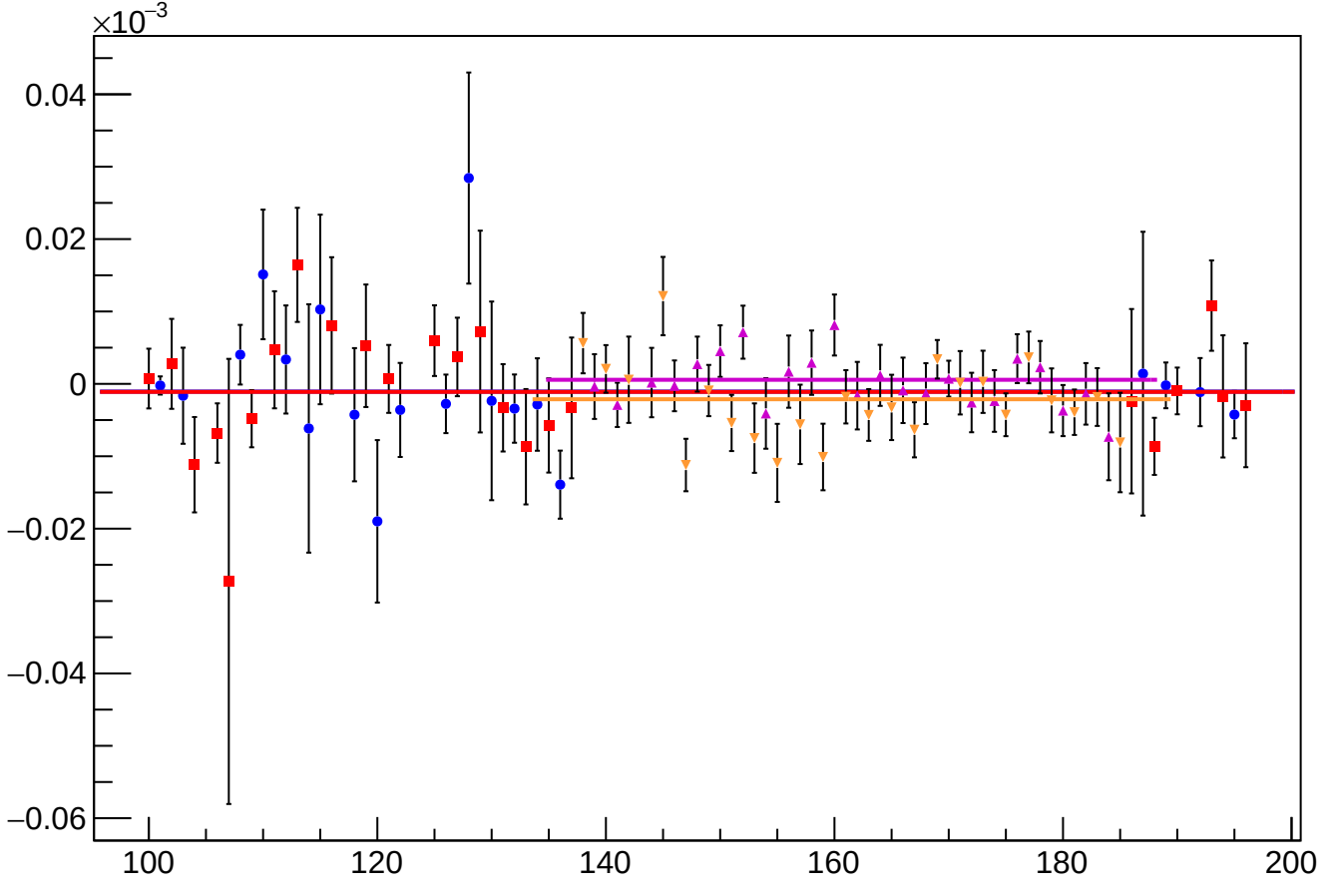
Left: 85.665+/-0.010 $\chi^2$/NDF: 2348620.8/46

Right: 79.809+/-0.013 $\chi^2$/NDF: 2084632.5/43

In: 83.692+/-0.012 $\chi^2$/NDF:1672581.7/42

Out: 83.103+/-0.011 $\chi^2$/NDF:2884054.0/47

All: 83.388+/-0.008 $\chi^2$/NDF: 4557958.0/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:37.4/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.6/22

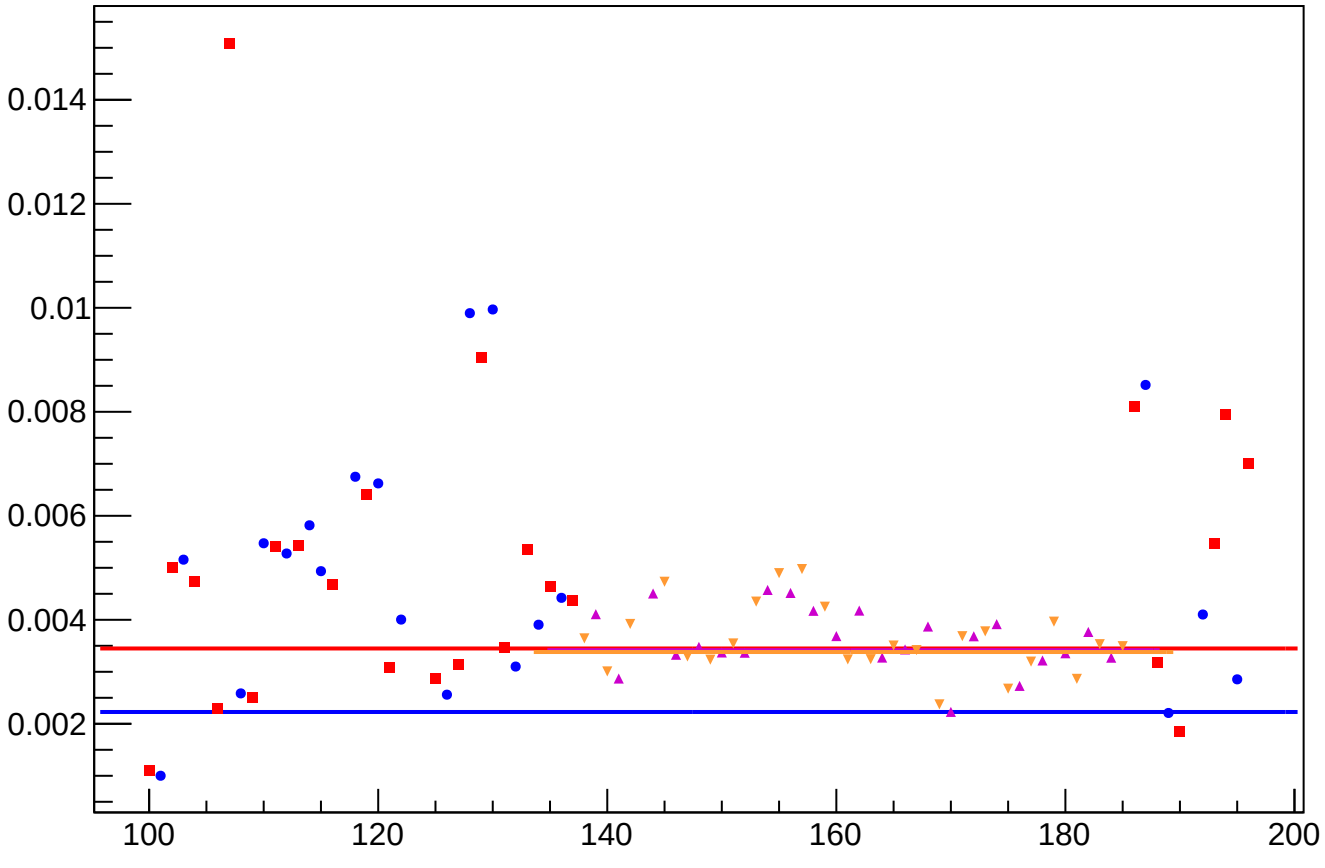
Left: -0.000+/-0.000 $\chi^2$/NDF: 59.5/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.2/43

In: -0.000+/-0.000 $\chi^2$/NDF:40.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:63.7/47

All: -0.000+/-0.000 $\chi^2$/NDF: 107.8/90




Right In: 0.002+/-0.000 $\chi^2$/NDF: 6460429.4/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:1195636.0/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4379212.4/23

Left In: 0.003+/-0.000 $\chi^2$/NDF:1170356.5/22

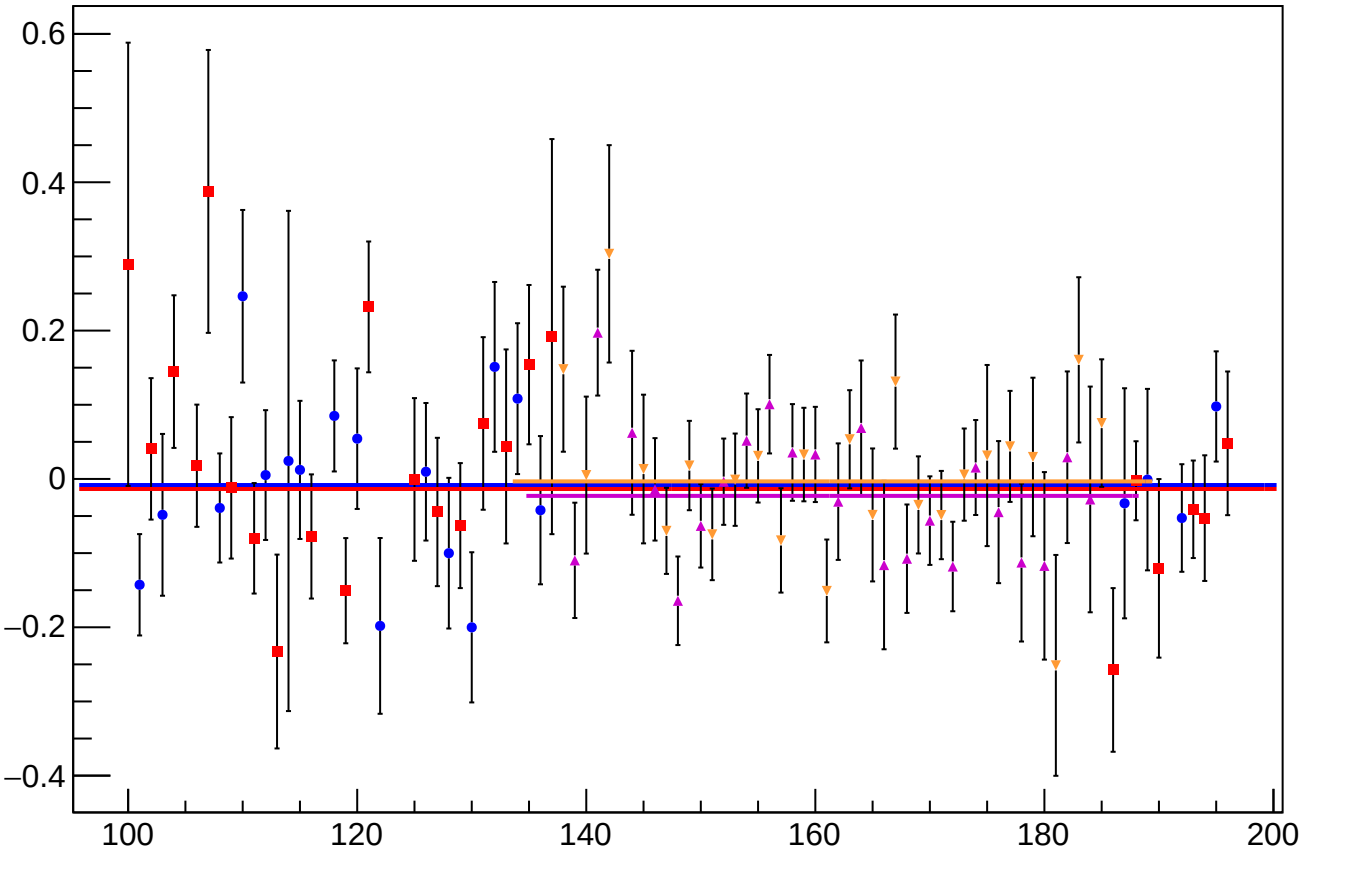
Left: 0.003+/-0.000 $\chi^2$/NDF: 2367900.3/46

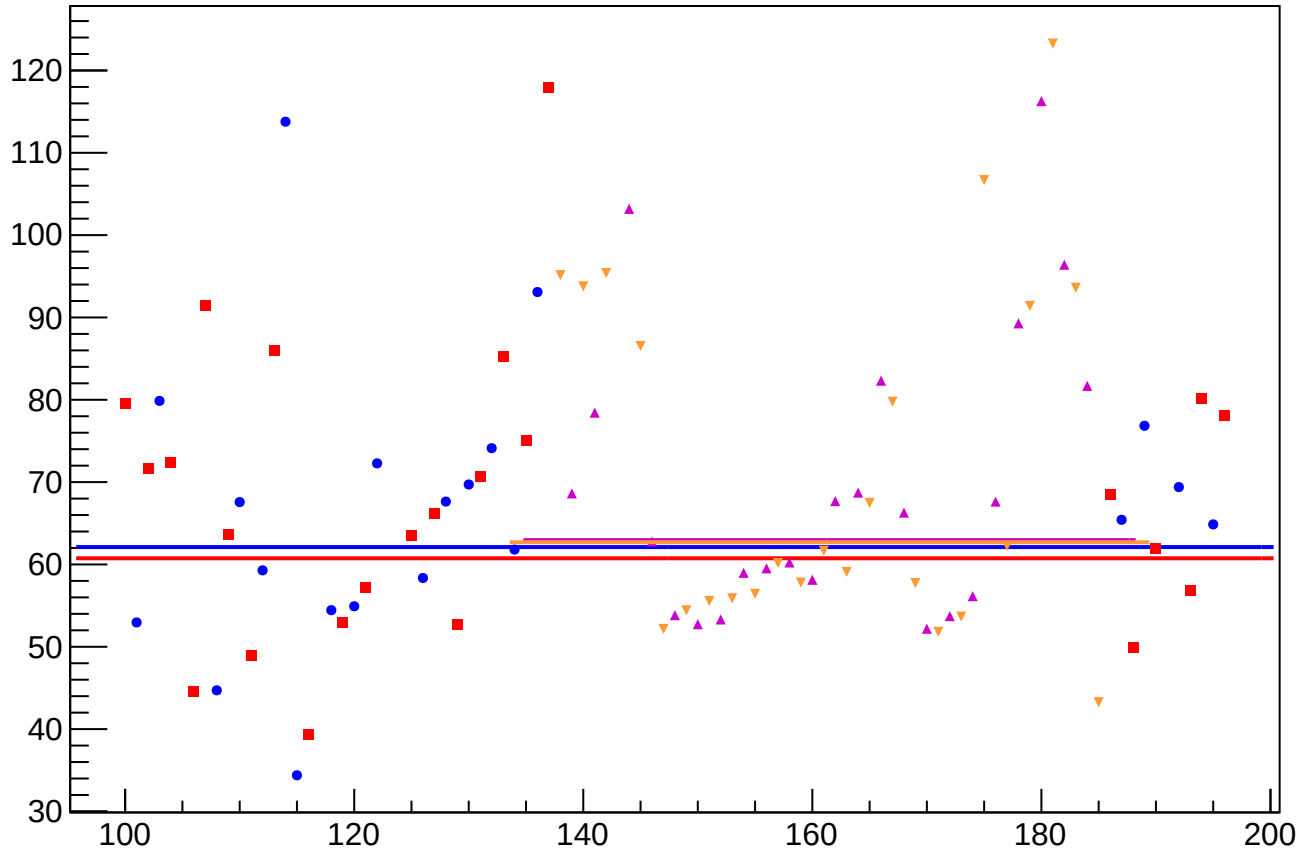
Right: 0.003+/-0.000 $\chi^2$/NDF: 12183588.9/43

In: 0.003+/-0.000 $\chi^2$/NDF:9539129.6/42

Out: 0.003+/-0.000 $\chi^2$/NDF:5579350.7/47

All: 0.003+/-0.000 $\chi^2$/NDF: 15784580.5/90


asym_us_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
0.6
0.4
0.2
0
−0.2
−0.4
100
120
140
160
180
200
Right In: -0.008+/-0.021 χ²/NDF: 23.9/19
Left Out: -0.003+/-0.015 χ²/NDF:25.9/23
Right Out: -0.014+/-0.019 χ²/NDF: 34.7/23
Left In: -0.023+/-0.015 χ²/NDF:29.0/22
Left: -0.013+/-0.011 χ²/NDF: 55.7/46
Right: -0.011+/-0.014 χ²/NDF: 58.6/43
In: -0.018+/-0.012 χ²/NDF:53.1/42
Out: -0.007+/-0.012 χ²/NDF:60.8/47
All: -0.012+/-0.009 χ²/NDF: 114.3/90




Right In: 62.110+/-0.015 $\chi^2$/NDF: 766342.8/19

Left Out: 62.694+/-0.011 $\chi^2$/NDF:1939383.4/23

Right Out: 60.749+/-0.013 $\chi^2$/NDF: 980616.1/23

Left In: 62.956+/-0.011 $\chi^2$/NDF:1430401.4/22

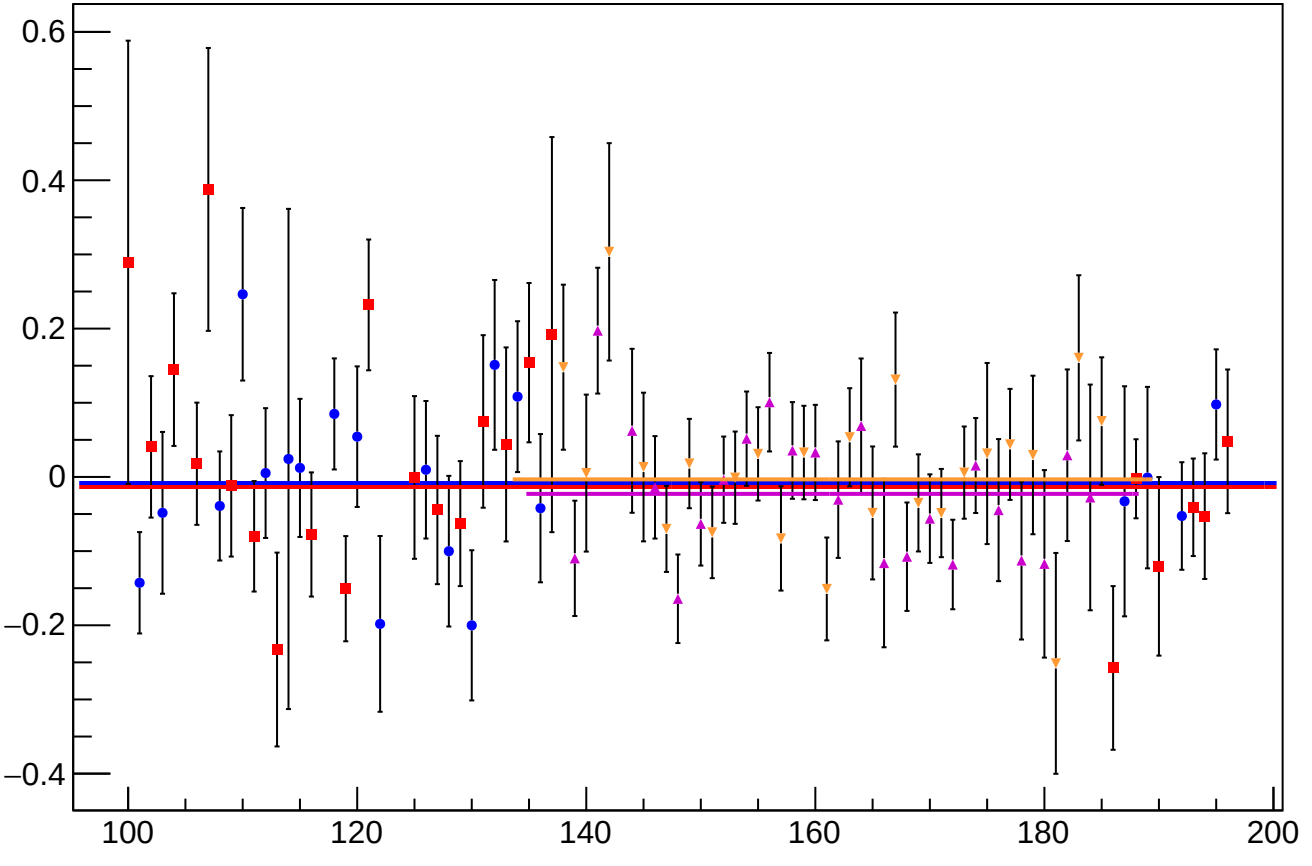
Left: 62.825+/-0.008 $\chi^2$/NDF: 3370070.3/46

Right: 61.360+/-0.010 $\chi^2$/NDF: 1751528.2/43

In: 62.660+/-0.009 $\chi^2$/NDF:2198827.3/42

Out: 61.921+/-0.009 $\chi^2$/NDF:2932534.7/47

All: 62.277+/-0.006 $\chi^2$/NDF: 5134994.4/90




Right In: -0.008+/-0.021 $\chi^2$/NDF: 23.9/19

Left Out: -0.003+/-0.015 $\chi^2$/NDF:25.9/23

Right Out: -0.014+/-0.019 $\chi^2$/NDF: 34.7/23

Left In: -0.023+/-0.015 $\chi^2$/NDF:29.0/22

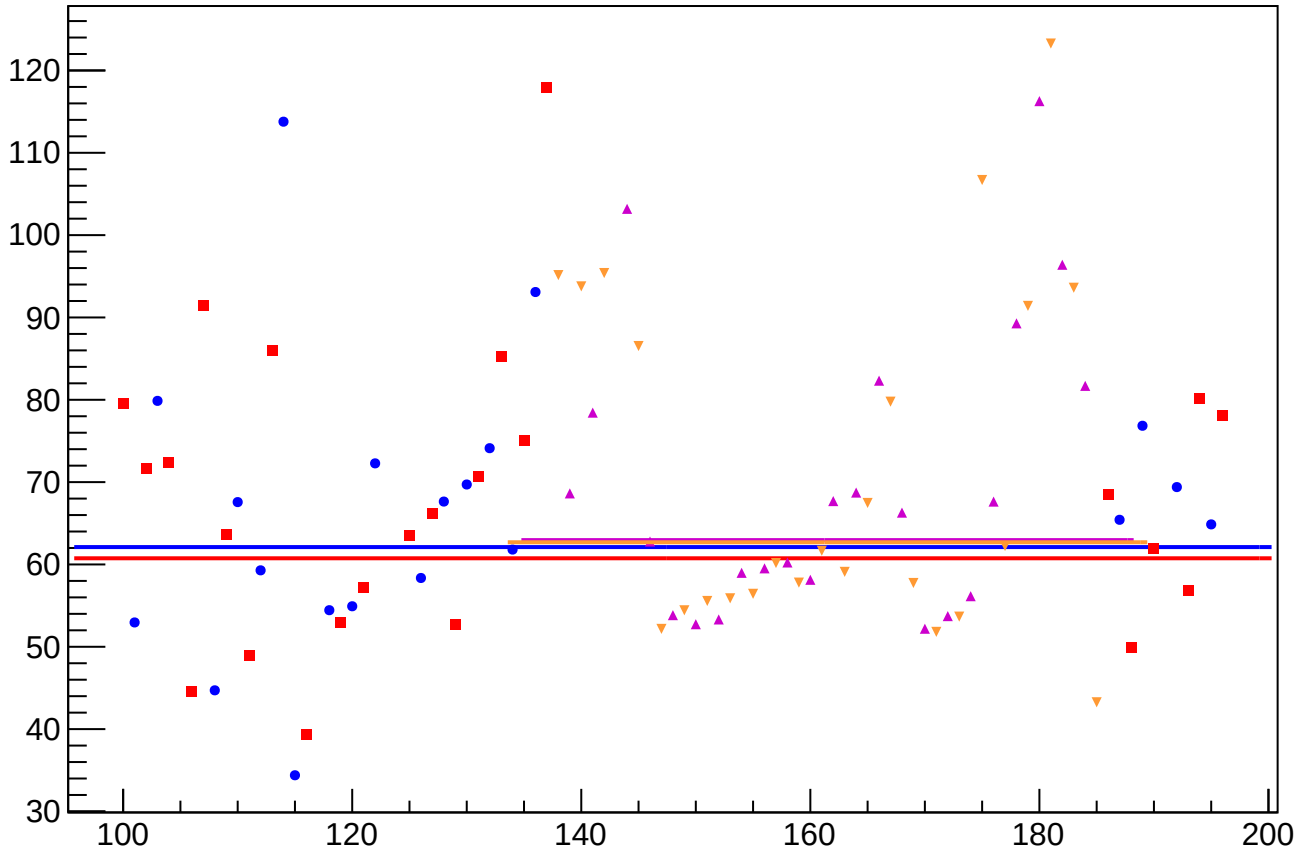
Left: -0.013+/-0.011 $\chi^2$/NDF: 55.7/46

Right: -0.011+/-0.014 $\chi^2$/NDF: 58.6/43

In: -0.018+/-0.012 $\chi^2$/NDF:53.1/42

Out: -0.007+/-0.012 $\chi^2$/NDF:60.8/47

All: -0.012+/-0.009 $\chi^2$/NDF: 114.3/90




Right In: 62.110+/-0.015 $\chi^2$/NDF: 766342.8/19

Left Out: 62.694+/-0.011 $\chi^2$/NDF:1939383.4/23

Right Out: 60.749+/-0.013 $\chi^2$/NDF: 980616.1/23

Left In: 62.956+/-0.011 $\chi^2$/NDF:1430401.4/22

Left: 62.825+/-0.008 $\chi^2$/NDF: 3370070.3/46

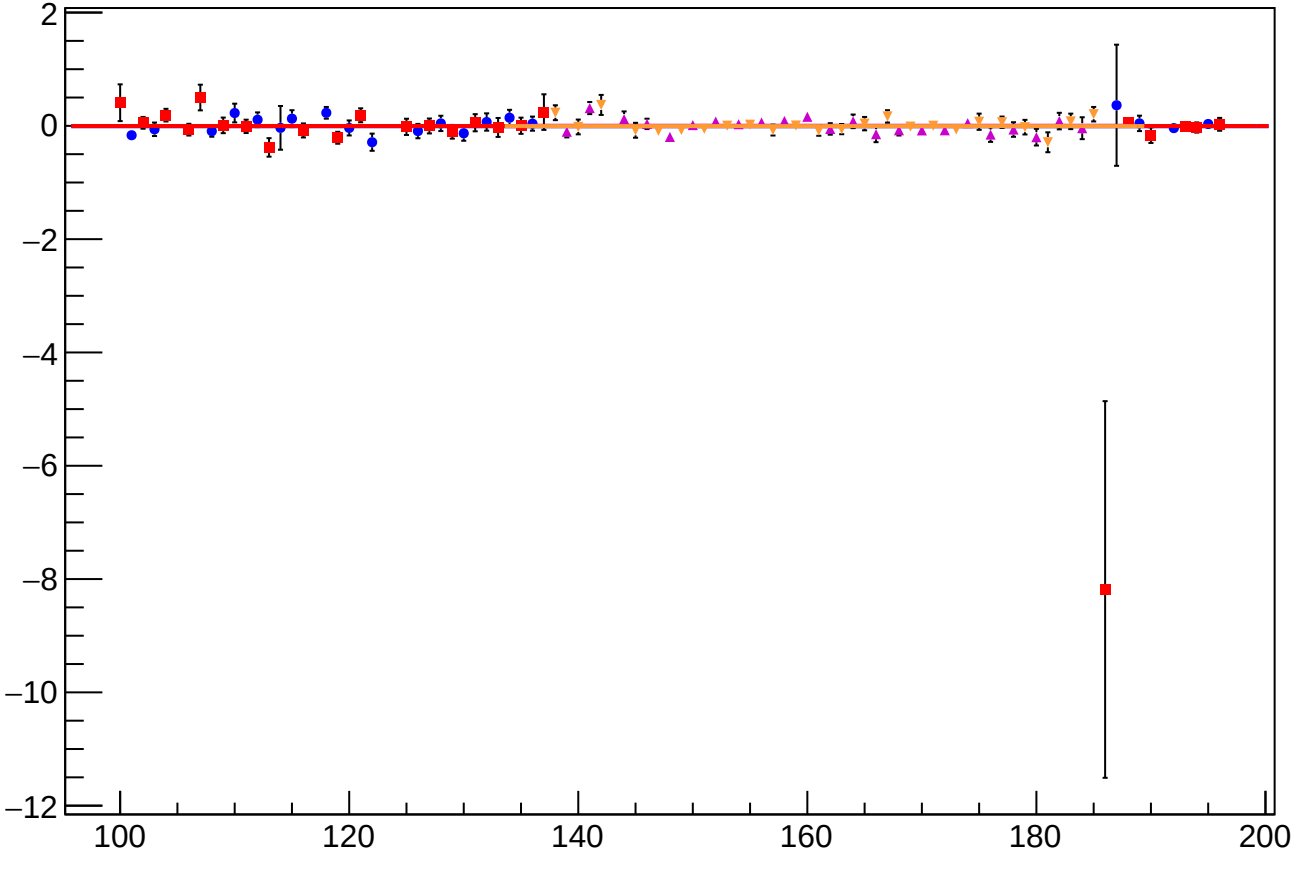
Right: 61.360+/-0.010 $\chi^2$/NDF: 1751528.2/43

In: 62.660+/-0.009 $\chi^2$/NDF:2198827.3/42

Out: 61.921+/-0.009 $\chi^2$/NDF:2932534.7/47

All: 62.277+/-0.006 $\chi^2$/NDF: 5134994.4/90

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.027 $\chi^2$/NDF: 20.8/19

Left Out: -0.004+/-0.021 $\chi^2$/NDF:21.4/23

Right Out: -0.002+/-0.025 $\chi^2$/NDF: 32.1/23

Left In: 0.002+/-0.021 $\chi^2$/NDF:30.5/22

Left: -0.001+/-0.015 $\chi^2$/NDF: 51.9/46

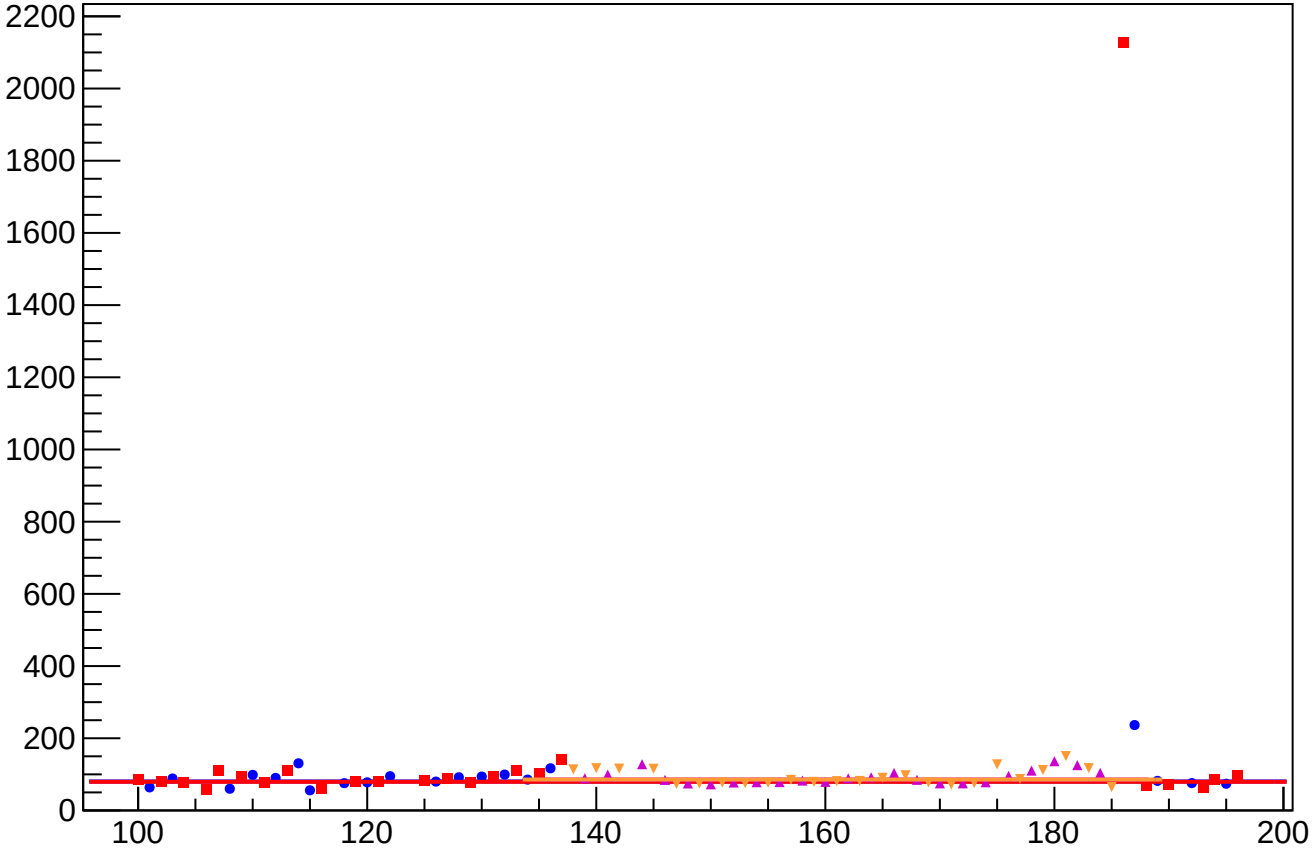
Right: -0.004+/-0.018 $\chi^2$/NDF: 53.0/43

In: -0.001+/-0.016 $\chi^2$/NDF:51.4/42

Out: -0.004+/-0.016 $\chi^2$/NDF:53.5/47

All: -0.003+/-0.011 $\chi^2$/NDF: 105.0/90

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 80.274+/-0.019 $\chi^2$/NDF: 626461.7/19

Left Out: 85.651+/-0.015 $\chi^2$/NDF:1352738.9/23

Right Out: 79.417+/-0.018 $\chi^2$/NDF: 1457042.9/23

Left In: 85.679+/-0.015 $\chi^2$/NDF:995860.8/22

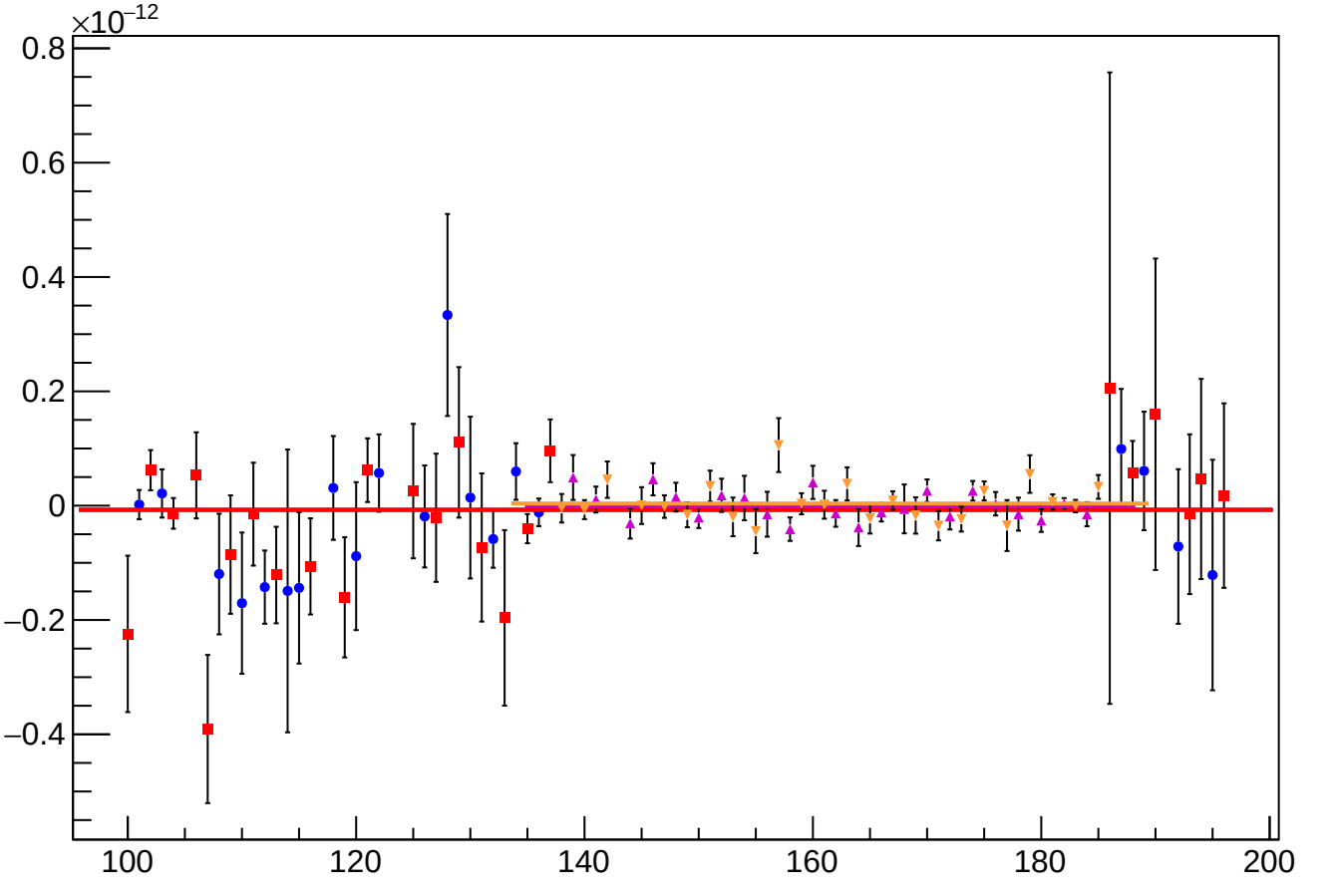
Left: 85.665+/-0.010 $\chi^2$/NDF: 2348601.5/46

Right: 79.809+/-0.013 $\chi^2$/NDF: 2084588.4/43

In: 83.691+/-0.012 $\chi^2$/NDF:1672579.5/42

Out: 83.103+/-0.011 $\chi^2$/NDF:2884036.1/47

All: 83.387+/-0.008 $\chi^2$/NDF: 4557937.7/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.0/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.2/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.6/22

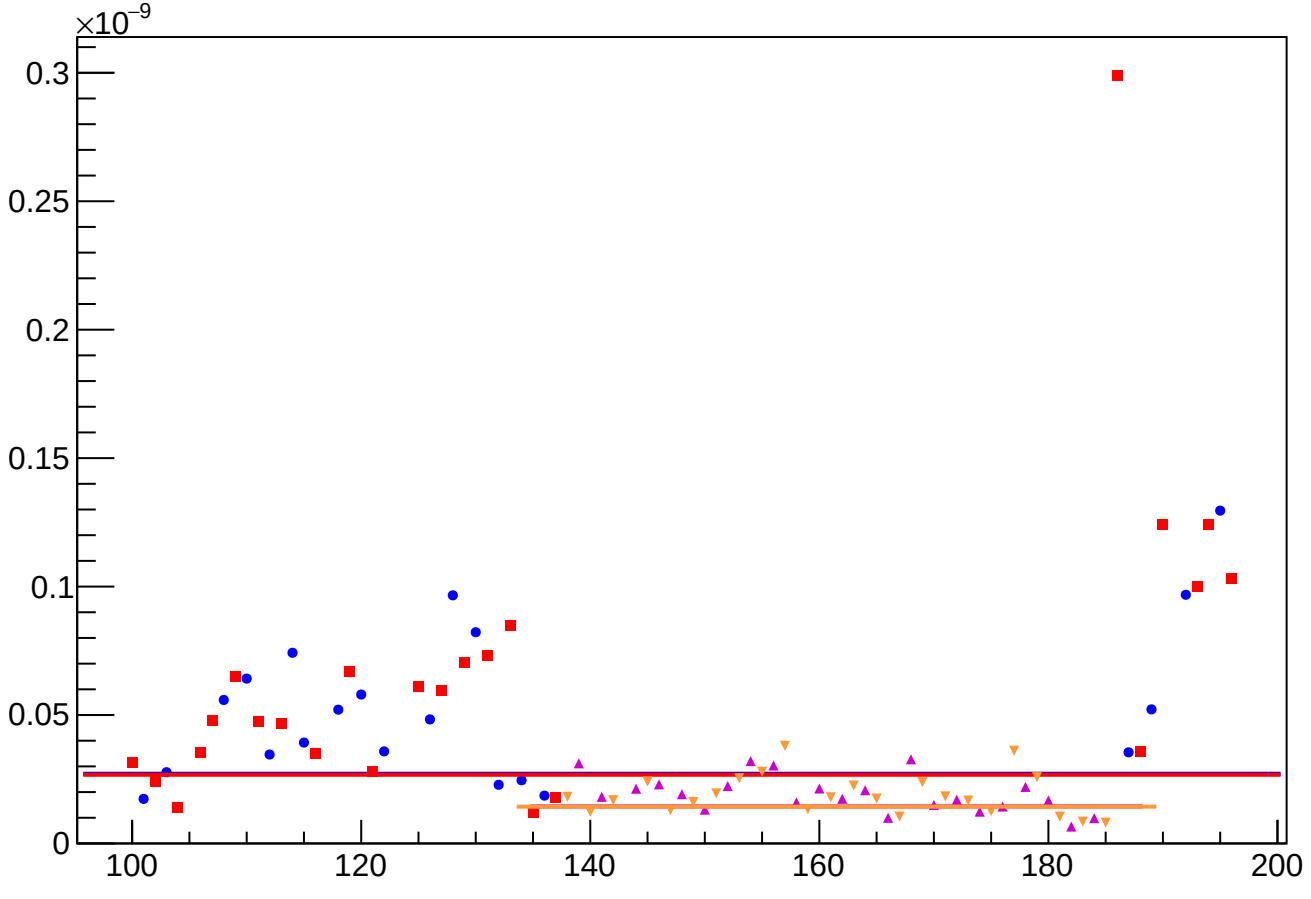
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.2/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.7/43

In: -0.000+/-0.000 $\chi^2$/NDF:43.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:58.8/47

All: 0.000+/-0.000 $\chi^2$/NDF: 102.7/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3207225.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3611096.1/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5580576.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:4256069.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 7867648.9/46

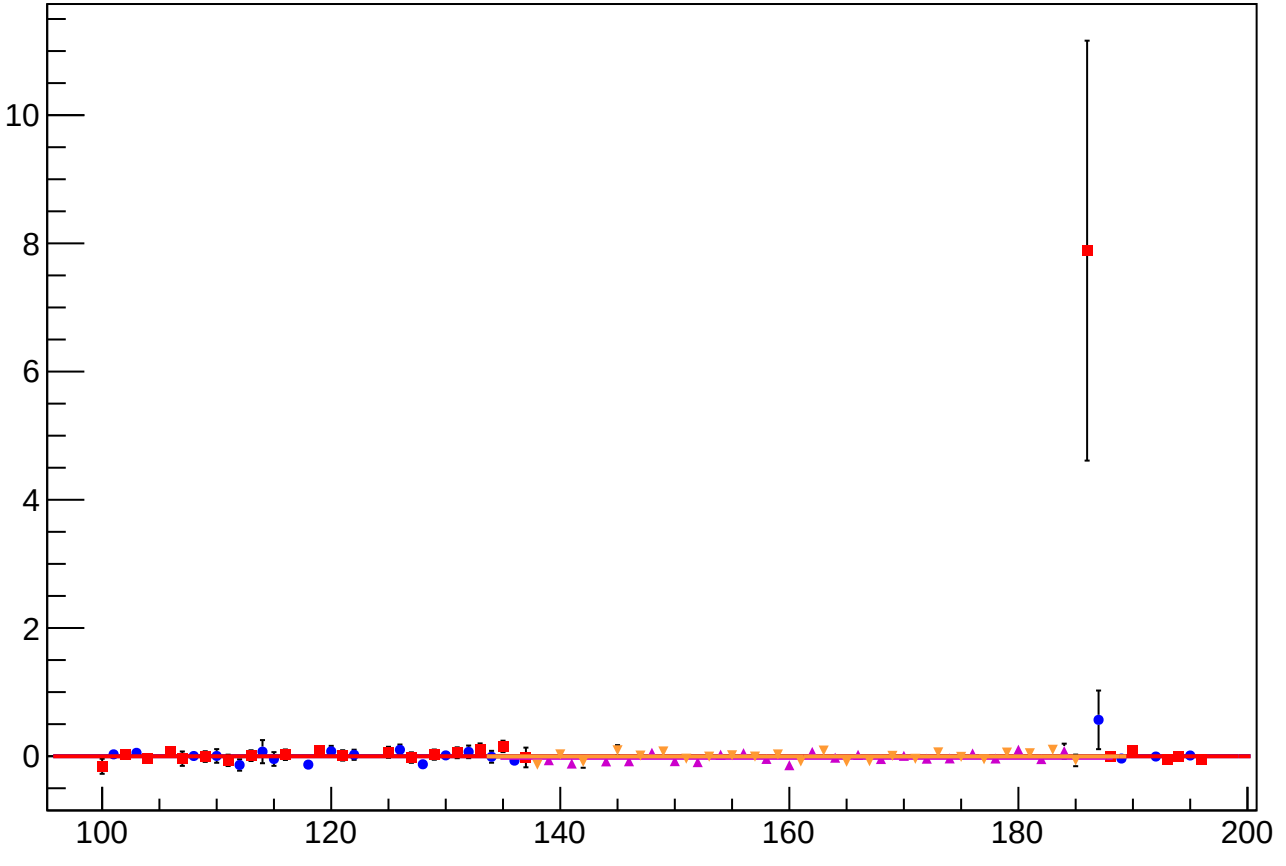
Right: 0.000+/-0.000 $\chi^2$/NDF: 8788802.9/43

In: 0.000+/-0.000 $\chi^2$/NDF:9190300.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10857296.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 20048674.6/90

asym_us_avg_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.012 $\chi^2$/NDF: 18.2/19

Left Out: -0.003+/-0.012 $\chi^2$/NDF:23.1/23

Right Out: -0.001+/-0.010 $\chi^2$/NDF: 28.4/23

Left In: -0.025+/-0.013 $\chi^2$/NDF:24.3/22

Left: -0.014+/-0.009 $\chi^2$/NDF: 49.0/46

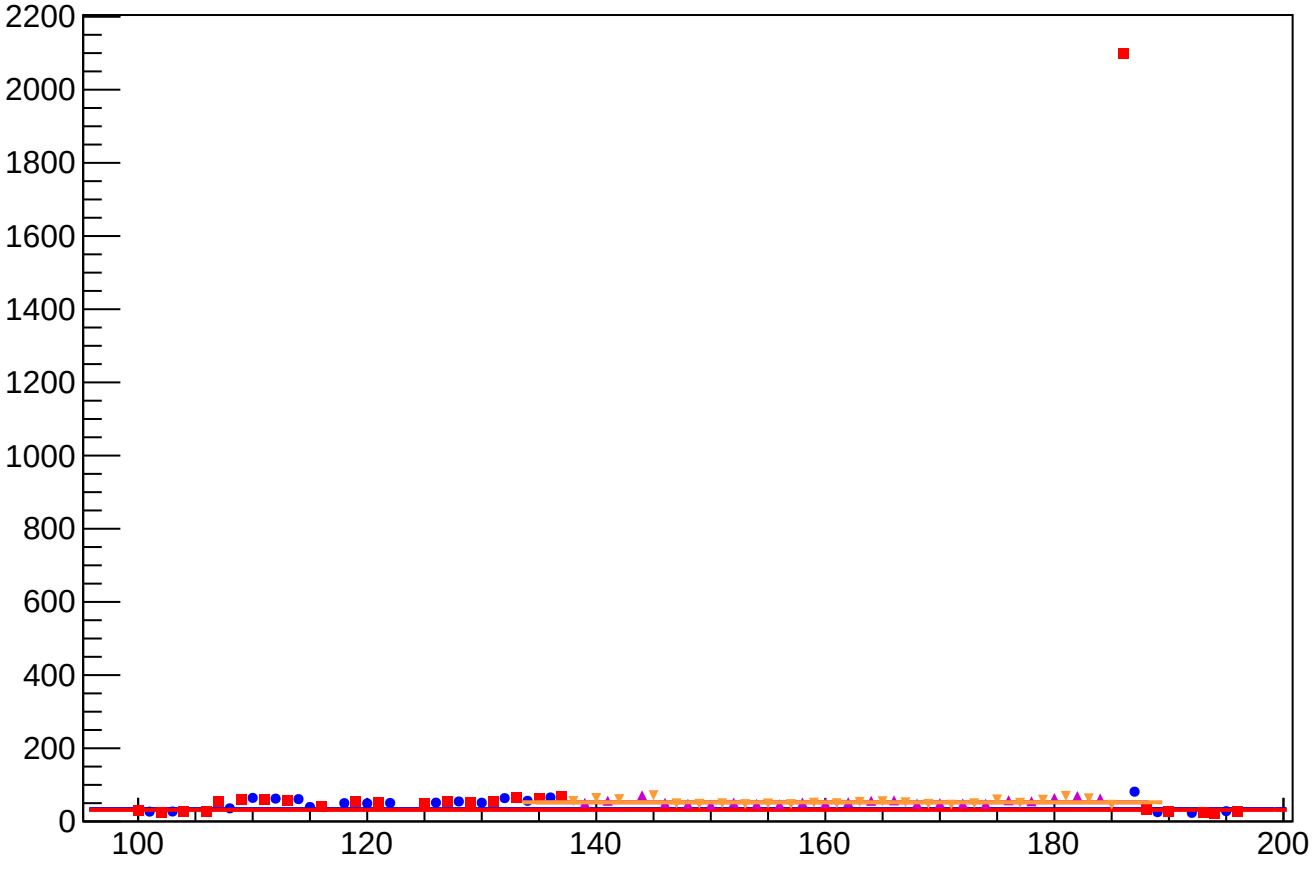
Right: -0.001+/-0.008 $\chi^2$/NDF: 46.7/43

In: -0.012+/-0.009 $\chi^2$/NDF:44.8/42

Out: -0.002+/-0.008 $\chi^2$/NDF:51.6/47

All: -0.007+/-0.006 $\chi^2$/NDF: 97.0/90

asym_us_avg_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 33.764+/-0.008 $\chi^2$/NDF: 2433847.5/19

Left Out: 52.367+/-0.009 $\chi^2$/NDF:522031.5/23

Right Out: 31.570+/-0.007 $\chi^2$/NDF: 3577704.7/23

Left In: 52.484+/-0.009 $\chi^2$/NDF:445297.7/22

Left: 52.425+/-0.006 $\chi^2$/NDF: 967418.6/46

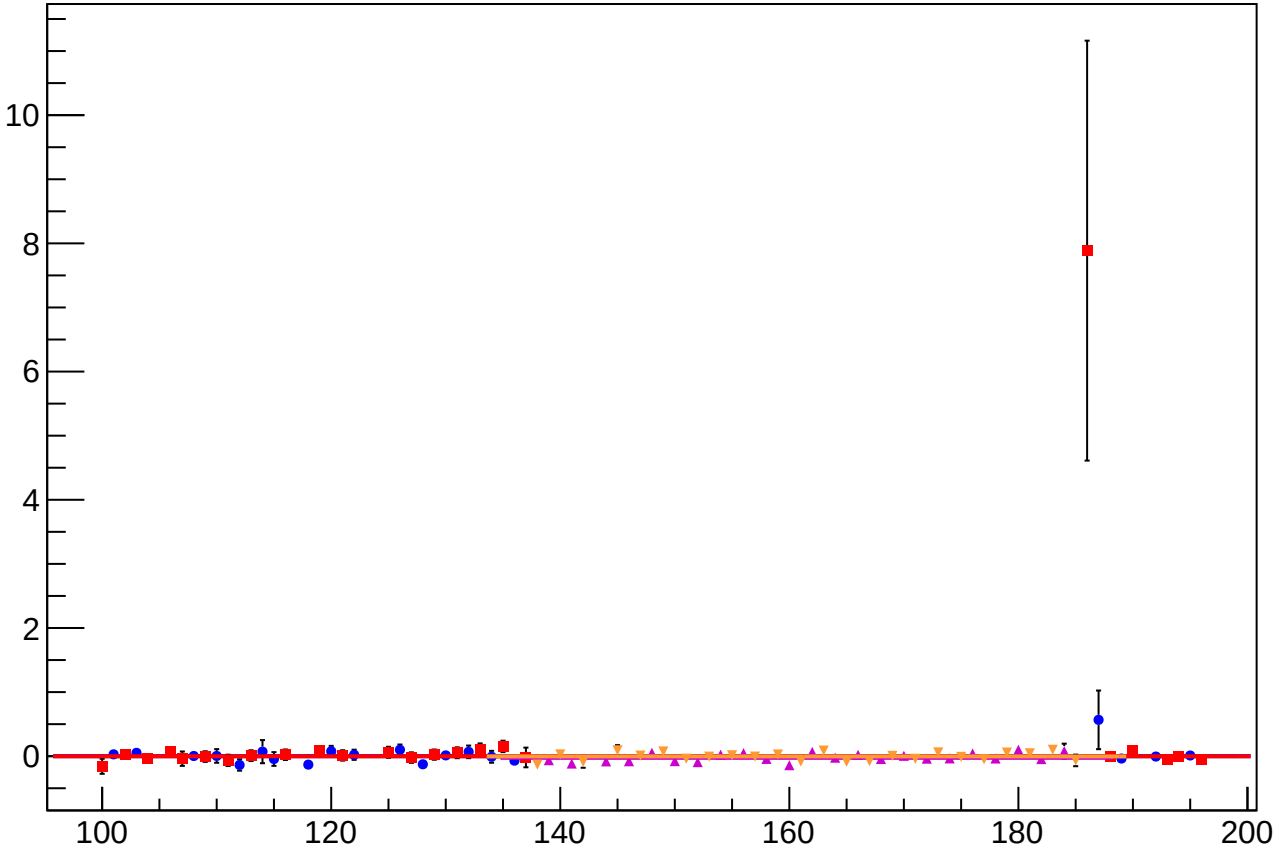
Right: 32.520+/-0.006 $\chi^2$/NDF: 6049533.9/43

In: 42.720+/-0.006 $\chi^2$/NDF:5214422.1/42

Out: 40.212+/-0.006 $\chi^2$/NDF:7376180.0/47

All: 41.369+/-0.004 $\chi^2$/NDF: 12681081.6/90

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.001+/-0.012 $\chi^2$/NDF: 18.2/19

Left Out: -0.003+/-0.012 $\chi^2$/NDF:23.1/23

Right Out: -0.001+/-0.010 $\chi^2$/NDF: 28.4/23

Left In: -0.025+/-0.013 $\chi^2$/NDF:24.3/22

Left: -0.014+/-0.009 $\chi^2$/NDF: 49.0/46

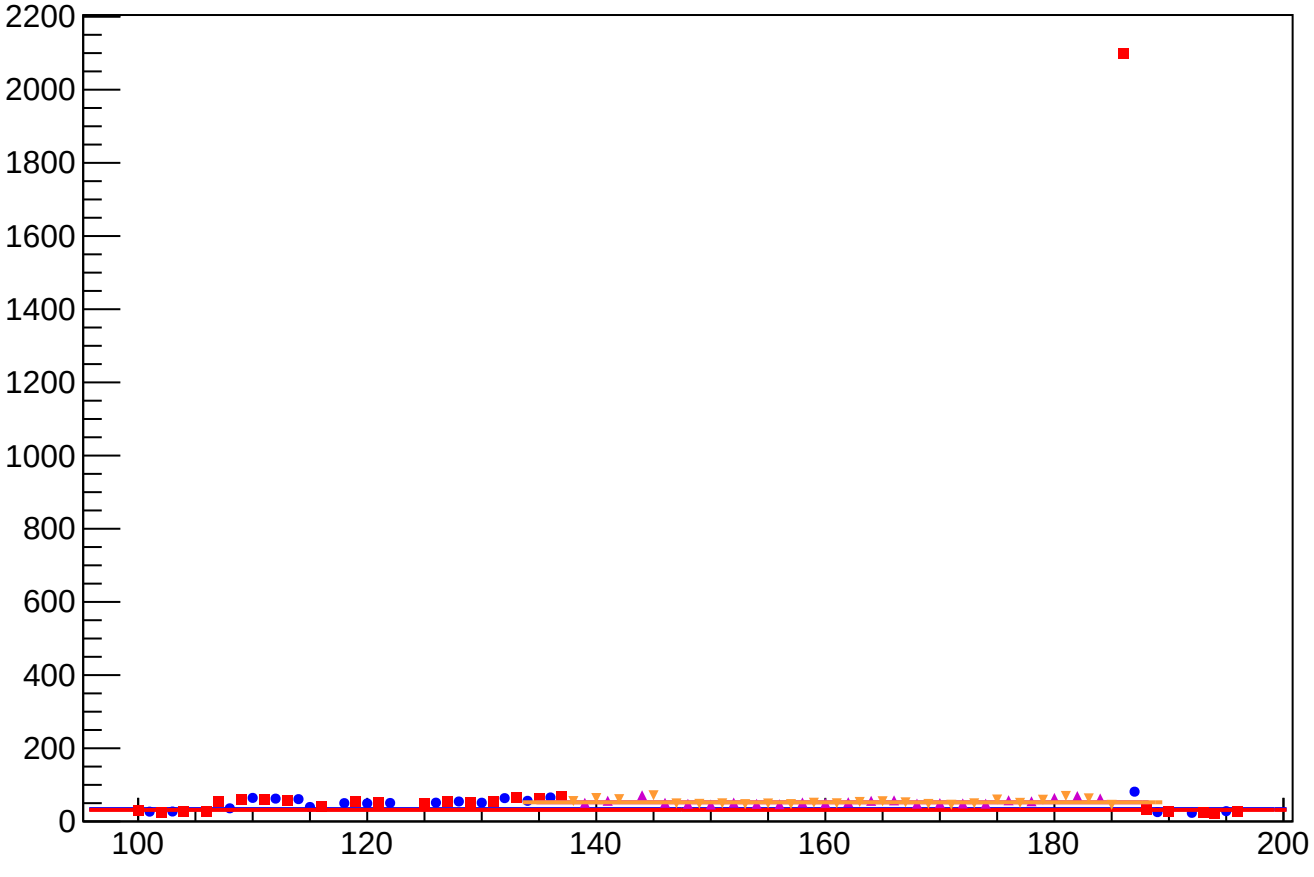
Right: -0.001+/-0.008 $\chi^2$/NDF: 46.7/43

In: -0.012+/-0.009 $\chi^2$/NDF:44.8/42

Out: -0.002+/-0.008 $\chi^2$/NDF:51.6/47

All: -0.007+/-0.006 $\chi^2$/NDF: 97.0/90

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 33.764+/-0.008 $\chi^2$/NDF: 2433847.5/19

Left Out: 52.367+/-0.009 $\chi^2$/NDF:522031.5/23

Right Out: 31.570+/-0.007 $\chi^2$/NDF: 3577704.7/23

Left In: 52.484+/-0.009 $\chi^2$/NDF:445297.7/22

Left: 52.425+/-0.006 $\chi^2$/NDF: 967418.6/46

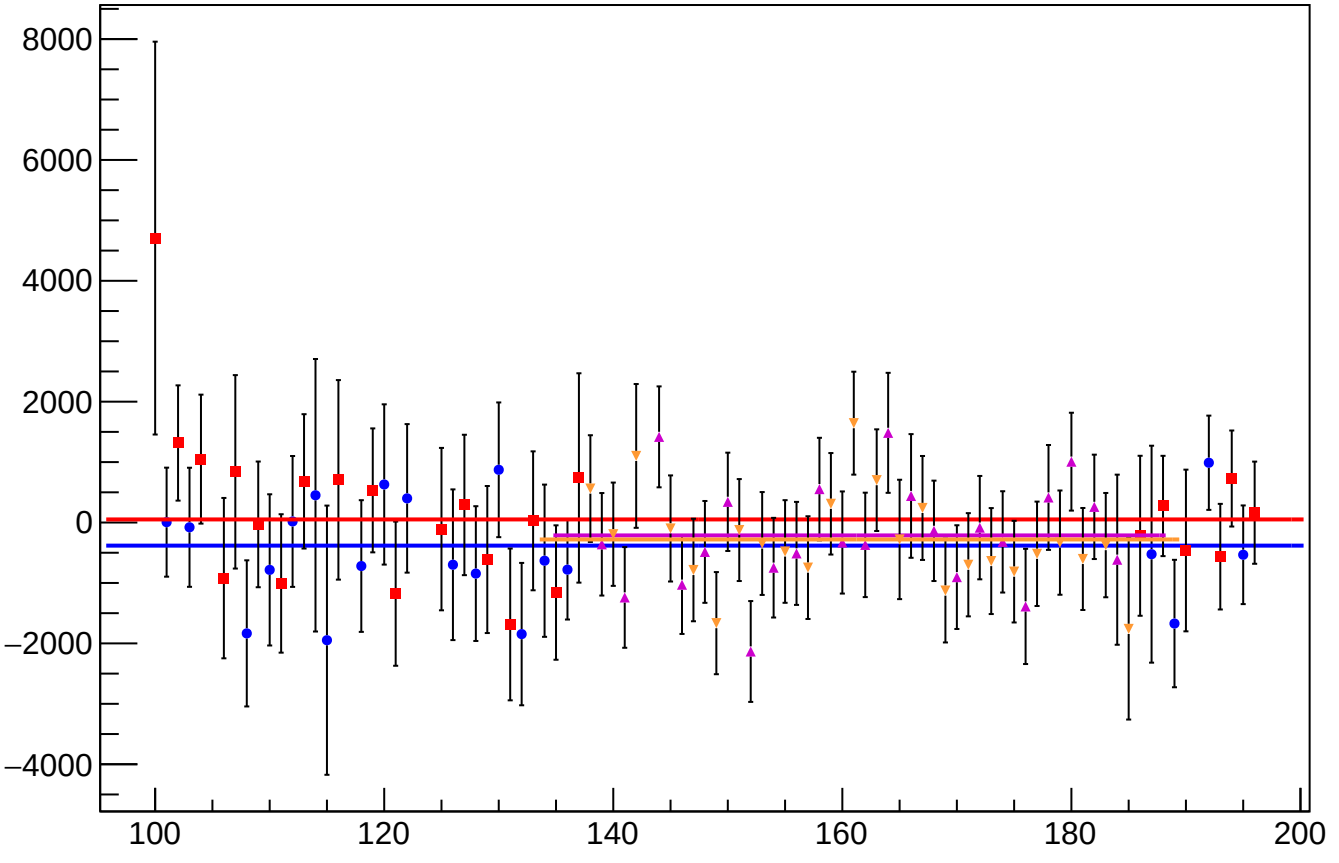
Right: 32.520+/-0.006 $\chi^2$/NDF: 6049533.9/43

In: 42.720+/-0.006 $\chi^2$/NDF:5214422.1/42

Out: 40.212+/-0.006 $\chi^2$/NDF:7376180.0/47

All: 41.369+/-0.004 $\chi^2$/NDF: 12681081.6/90

# reg_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -382.171+/-247.453 $\chi^2$/NDF: 11.6/19

Left Out: -280.364+/-179.881 $\chi^2$/NDF:16.1/23

Right Out: 51.287+/-229.872 $\chi^2$/NDF: 13.2/23

Left In: -213.425+/-181.168 $\chi^2$/NDF:22.4/22

Left: -247.133+/-127.647 $\chi^2$/NDF: 38.5/46

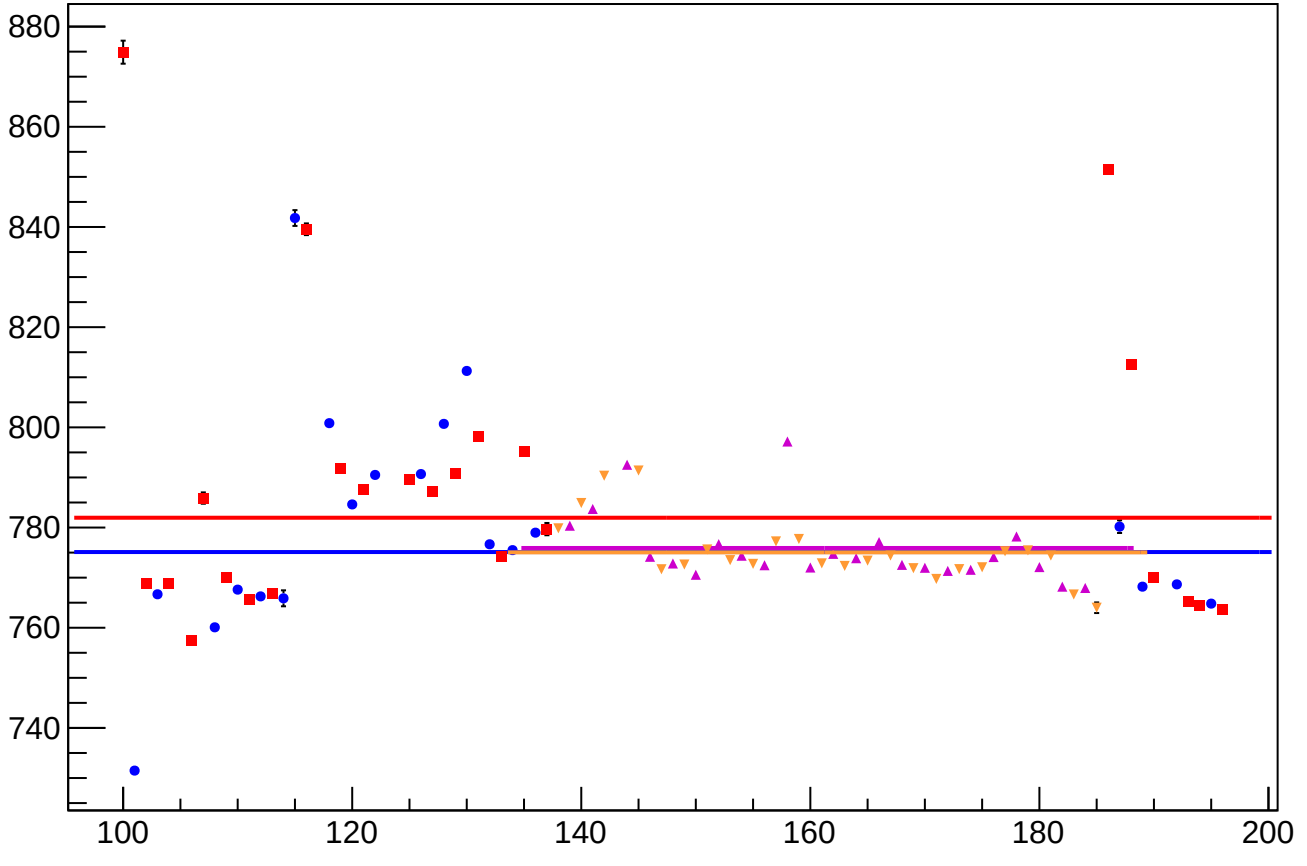
Right: -149.498+/-168.417 $\chi^2$/NDF: 26.5/43

In: -272.311+/-146.178 $\chi^2$/NDF:34.3/42

Out: -154.408+/-141.663 $\chi^2$/NDF:30.6/47

All: -211.510+/-101.730 $\chi^2$/NDF: 65.2/90

# reg_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 775.111+/-0.175 $\chi^2$/NDF: 12769.7/19

Left Out: 775.050+/-0.127 $\chi^2$/NDF:1951.3/23

Right Out: 781.961+/-0.163 $\chi^2$/NDF: 18687.9/23

Left In: 775.922+/-0.128 $\chi^2$/NDF:2973.0/22

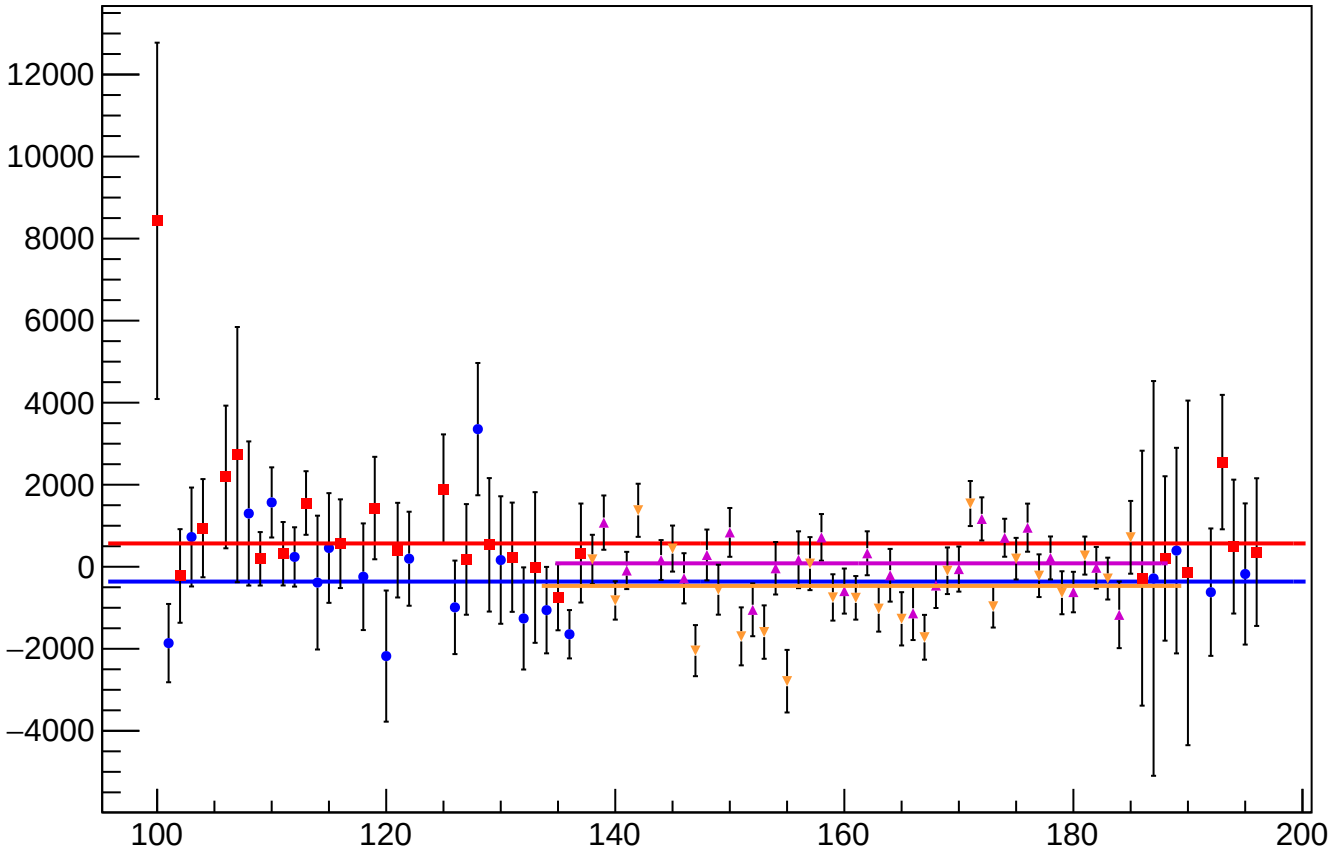
Left: 775.483+/-0.090 $\chi^2$/NDF: 4947.6/46

Right: 778.788+/-0.119 $\chi^2$/NDF: 32280.3/43

In: 775.639+/-0.103 $\chi^2$/NDF:15756.6/42

Out: 777.675+/-0.100 $\chi^2$/NDF:21760.7/47

All: 776.689+/-0.072 $\chi^2$/NDF: 37717.3/90




Right In: -361.391+/-258.080 $\chi^2$/NDF: 23.4/19

Left Out: -467.151+/-116.712 $\chi^2$/NDF:64.4/23

Right Out: 568.272+/-250.523 $\chi^2$/NDF: 13.3/23

Left In: 83.154+/-117.808 $\chi^2$/NDF:28.1/22

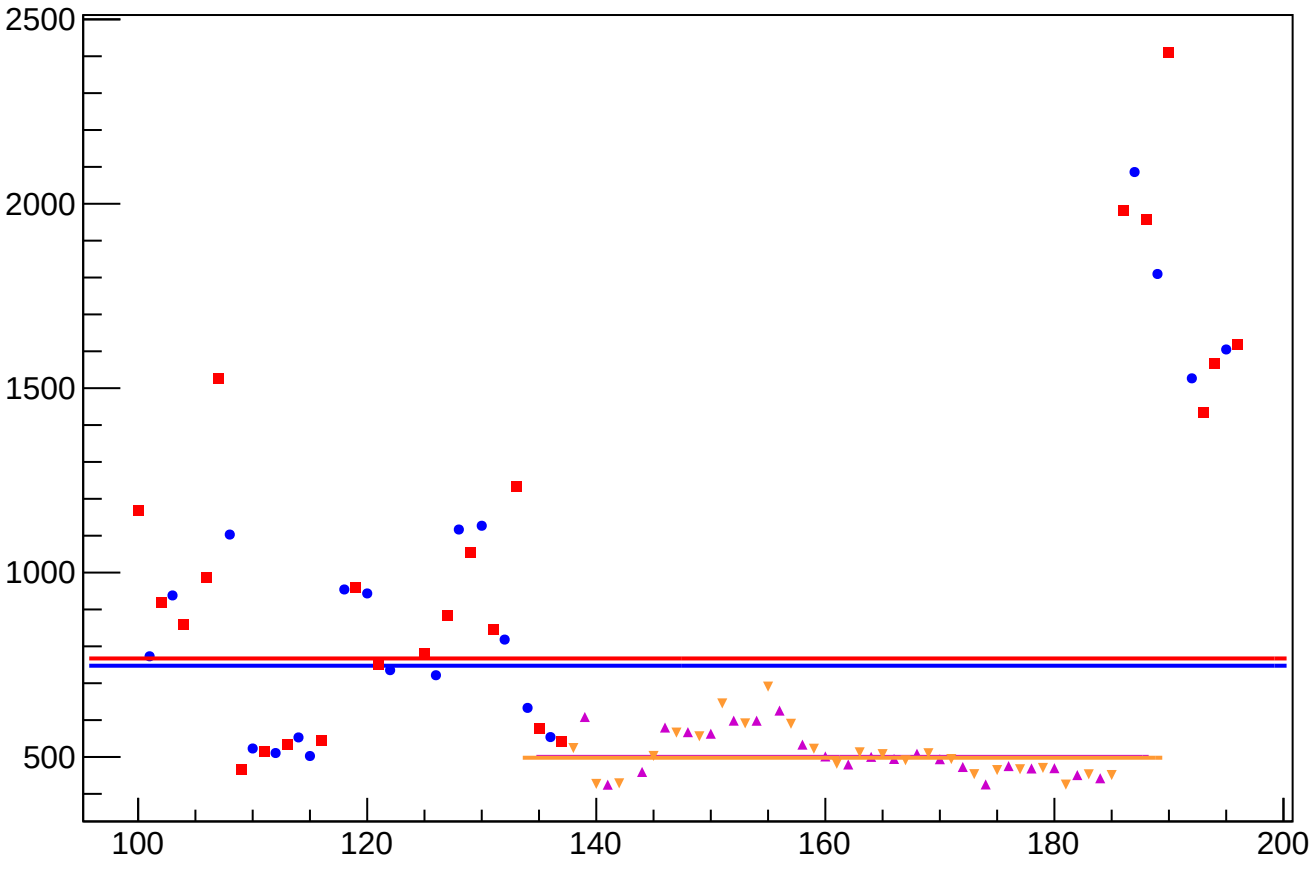
Left: -194.569+/-82.913 $\chi^2$/NDF: 103.6/46

Right: 117.250+/-179.759 $\chi^2$/NDF: 43.4/43

In: 6.497+/-107.170 $\chi^2$/NDF:54.0/42

Out: -282.500+/-105.795 $\chi^2$/NDF:91.8/47

All: -139.868+/-75.290 $\chi^2$/NDF: 149.5/90




Right In: 747.433+/-0.182 $\chi^2$/NDF: 2646354.1/19

Left Out: 497.966+/-0.083 $\chi^2$/NDF:526993.3/23

Right Out: 767.151+/-0.177 $\chi^2$/NDF: 4134743.6/23

Left In: 500.307+/-0.083 $\chi^2$/NDF:477388.4/22

Left: 499.125+/-0.059 $\chi^2$/NDF: 1004780.2/46

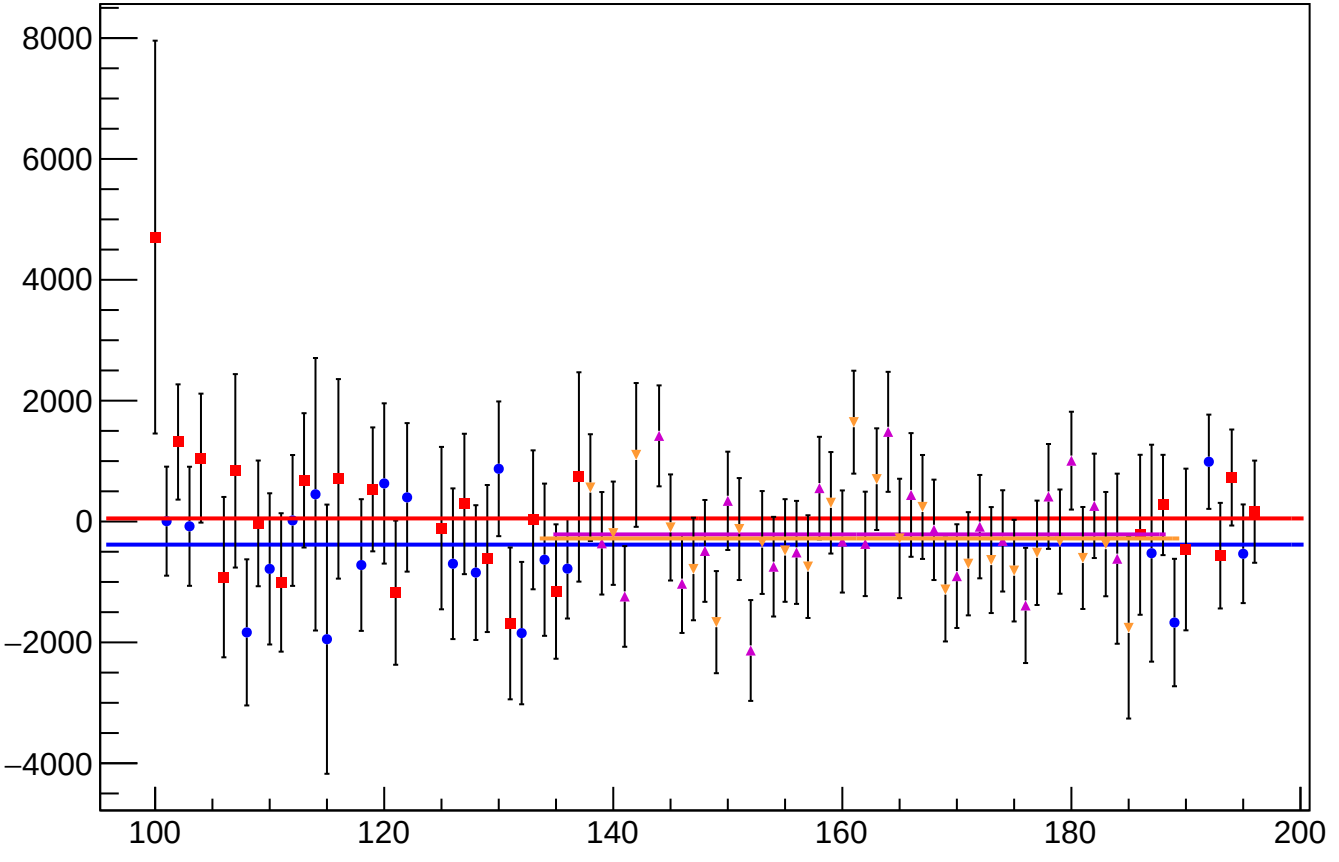
Right: 757.585+/-0.127 $\chi^2$/NDF: 6787108.7/43

In: 542.921+/-0.076 $\chi^2$/NDF:4641339.5/42

Out: 545.971+/-0.075 $\chi^2$/NDF:6559017.6/47

All: 544.466+/-0.053 $\chi^2$/NDF: 11201177.1/90

# cor_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -382.171+/-247.453 $\chi^2$/NDF: 11.6/19

Left Out: -280.364+/-179.881 $\chi^2$/NDF:16.1/23

Right Out: 51.287+/-229.872 $\chi^2$/NDF: 13.2/23

Left In: -213.425+/-181.168 $\chi^2$/NDF:22.4/22

Left: -247.133+/-127.647 $\chi^2$/NDF: 38.5/46

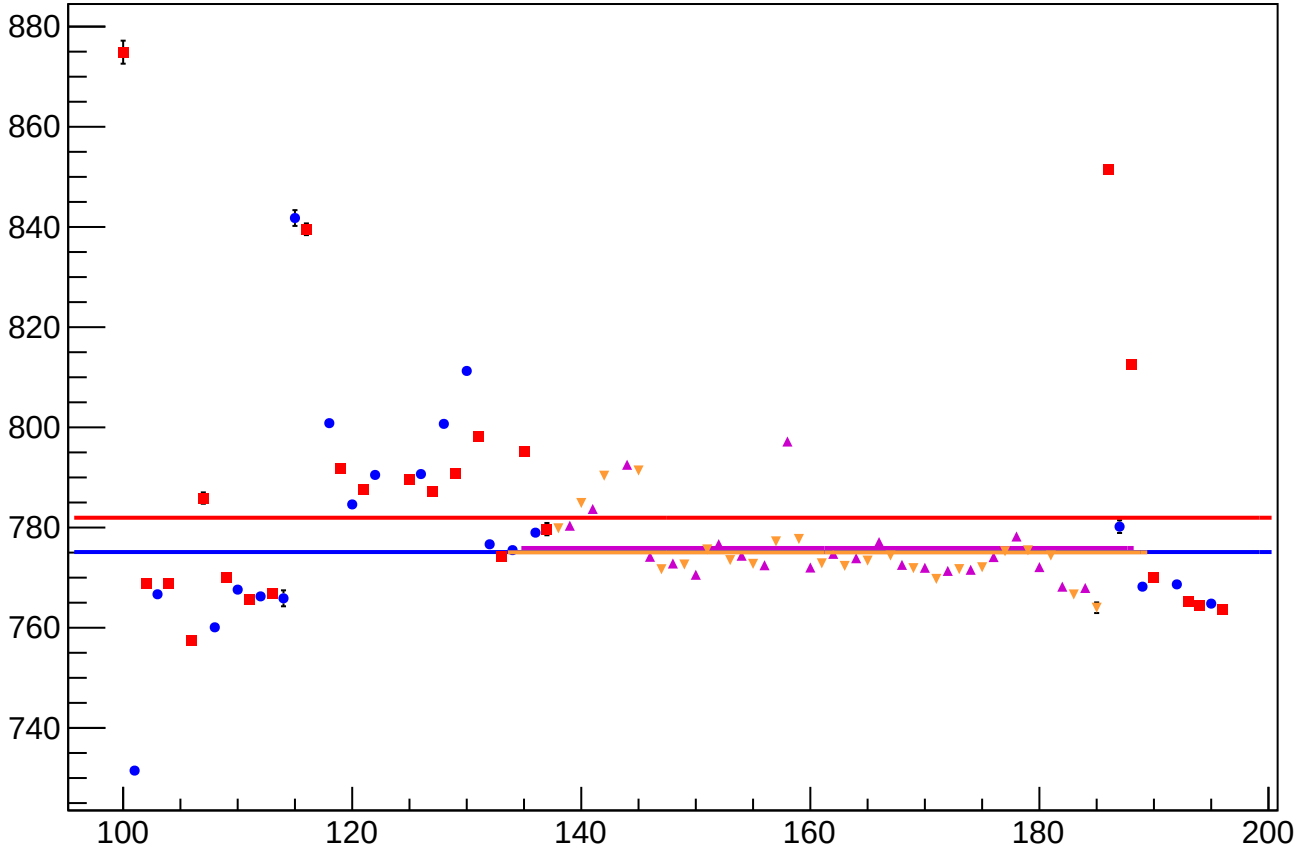
Right: -149.498+/-168.417 $\chi^2$/NDF: 26.5/43

In: -272.311+/-146.178 $\chi^2$/NDF:34.3/42

Out: -154.408+/-141.663 $\chi^2$/NDF:30.6/47

All: -211.510+/-101.730 $\chi^2$/NDF: 65.2/90

# cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 775.111+/-0.175 $\chi^2$/NDF: 12769.7/19

Left Out: 775.050+/-0.127 $\chi^2$/NDF:1951.3/23

Right Out: 781.961+/-0.163 $\chi^2$/NDF: 18687.9/23

Left In: 775.922+/-0.128 $\chi^2$/NDF:2973.0/22

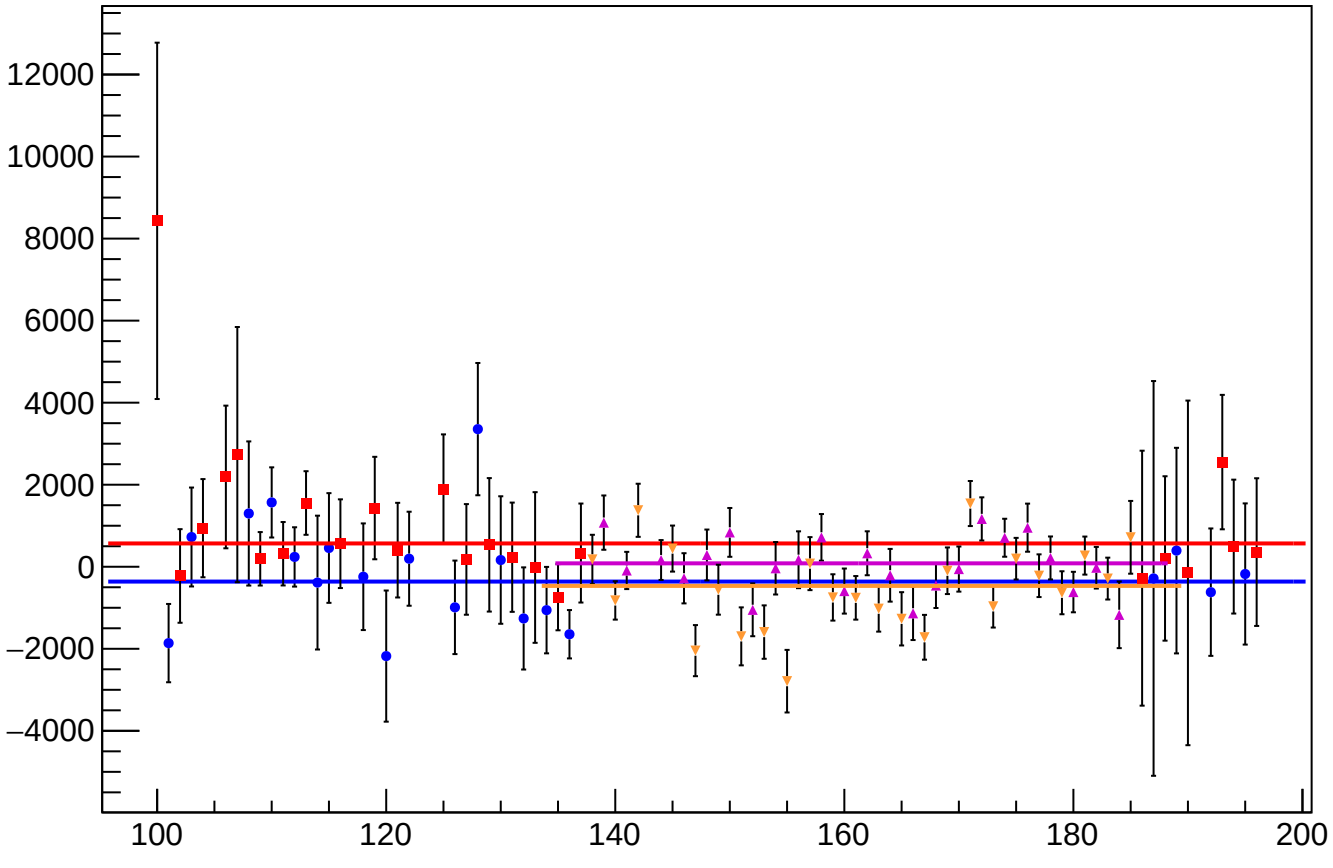
Left: 775.483+/-0.090 $\chi^2$/NDF: 4947.6/46

Right: 778.788+/-0.119 $\chi^2$/NDF: 32280.3/43

In: 775.639+/-0.103 $\chi^2$/NDF:15756.6/42

Out: 777.675+/-0.100 $\chi^2$/NDF:21760.7/47

All: 776.689+/-0.072 $\chi^2$/NDF: 37717.3/90




Right In: -361.391+/-258.080 $\chi^2$/NDF: 23.4/19

Left Out: -467.151+/-116.712 $\chi^2$/NDF:64.4/23

Right Out: 568.272+/-250.523 $\chi^2$/NDF: 13.3/23

Left In: 83.154+/-117.808 $\chi^2$/NDF:28.1/22

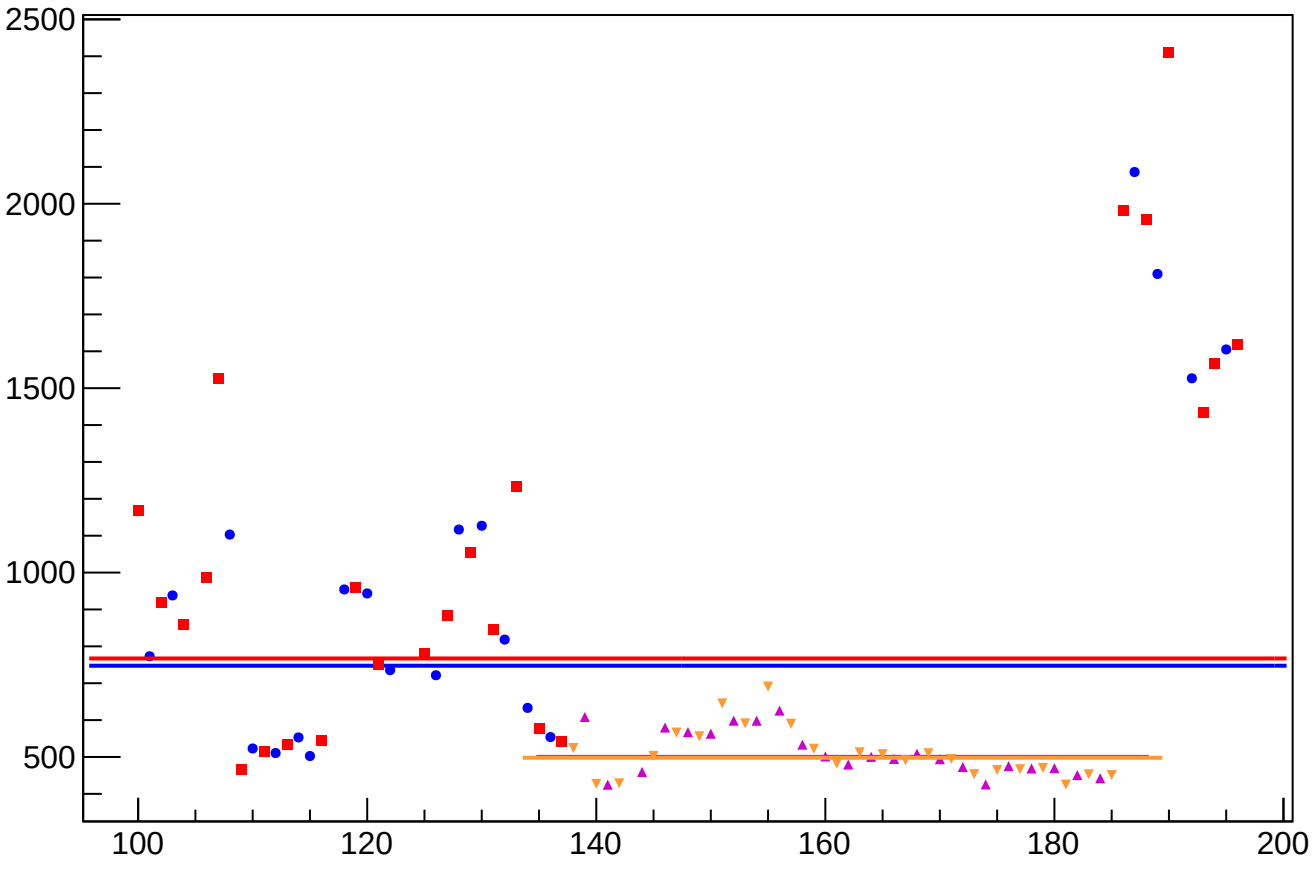
Left: -194.569+/-82.913 $\chi^2$/NDF: 103.6/46

Right: 117.250+/-179.759 $\chi^2$/NDF: 43.4/43

In: 6.497+/-107.170 $\chi^2$/NDF:54.0/42

Out: -282.500+/-105.795 $\chi^2$/NDF:91.8/47

All: -139.868+/-75.290 $\chi^2$/NDF: 149.5/90




Right In: 747.433+/-0.182 $\chi^2$/NDF: 2646354.1/19

Left Out: 497.966+/-0.083 $\chi^2$/NDF:526993.3/23

Right Out: 767.151+/-0.177 $\chi^2$/NDF: 4134743.6/23

Left In: 500.307+/-0.083 $\chi^2$/NDF:477388.4/22

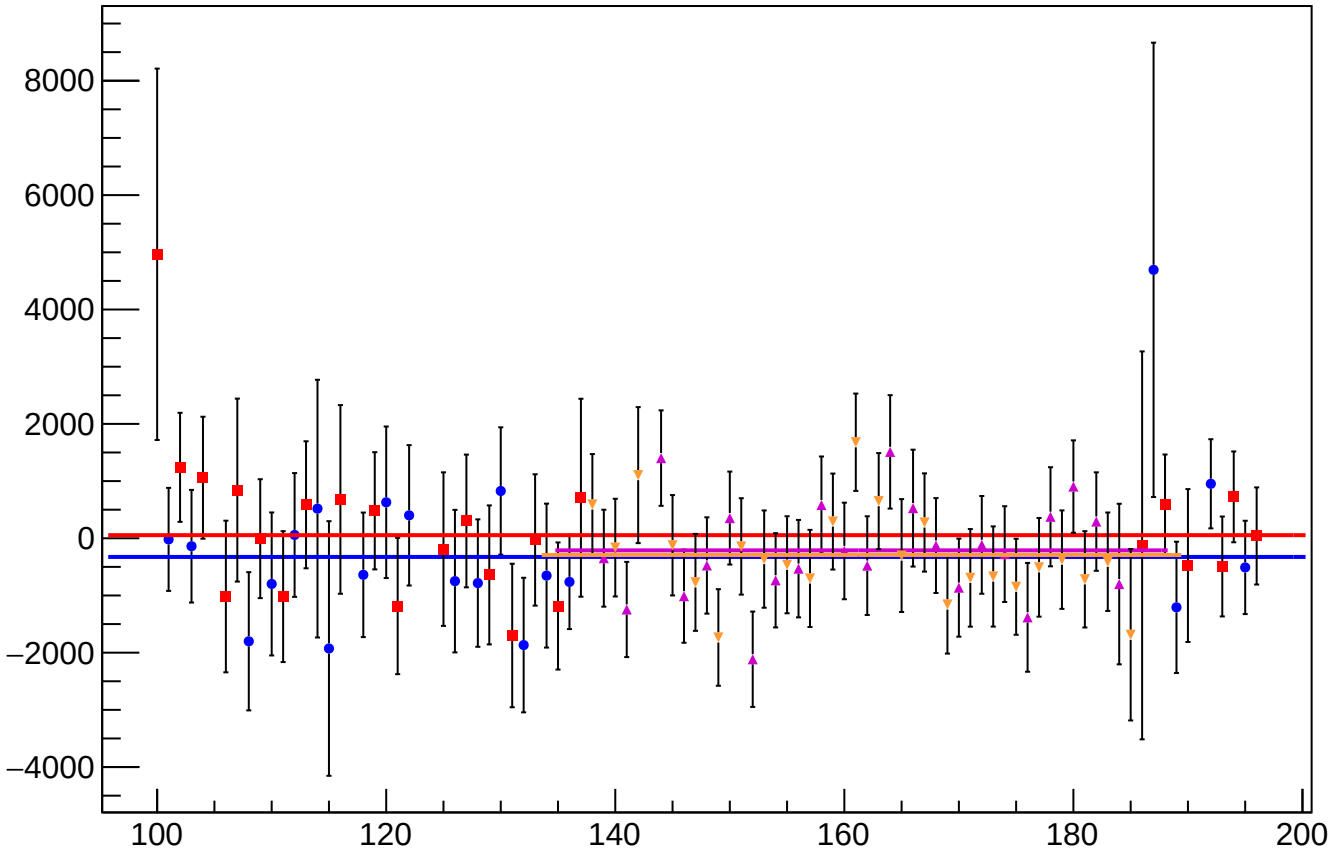
Left: 499.125+/-0.059 $\chi^2$/NDF: 1004780.2/46

Right: 757.585+/-0.127 $\chi^2$/NDF: 6787108.7/43

In: 542.921+/-0.076 $\chi^2$/NDF:4641339.5/42

Out: 545.971+/-0.075 $\chi^2$/NDF:6559017.6/47

All: 544.466+/-0.053 $\chi^2$/NDF: 11201177.1/90




Right In: -326.183+/-250.217 $\chi^2$/NDF: 11.9/19

Left Out: -292.036+/-179.670 $\chi^2$/NDF:16.6/23

Right Out: 54.599+/-233.675 $\chi^2$/NDF: 13.5/23

Left In: -211.238+/-180.951 $\chi^2$/NDF:22.1/22

Left: -251.924+/-127.496 $\chi^2$/NDF: 38.8/46

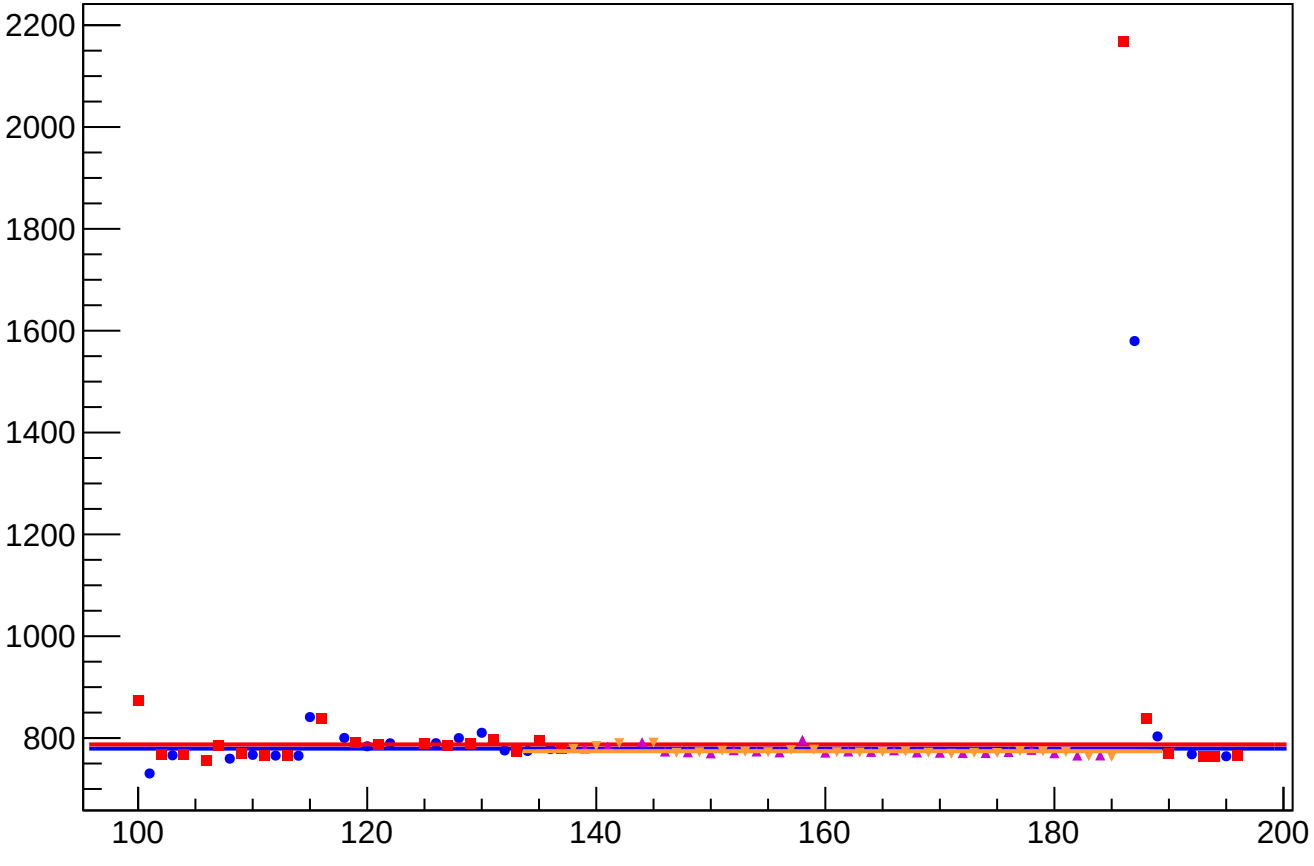
Right: -122.790+/-170.782 $\chi^2$/NDF: 26.6/43

In: -250.710+/-146.627 $\chi^2$/NDF:34.1/42

Out: -163.247+/-142.434 $\chi^2$/NDF:31.5/47

All: -205.710+/-102.166 $\chi^2$/NDF: 65.8/90

# overload_cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 779.252+/-0.177 $\chi^2$/NDF: 95425.3/19

Left Out: 774.142+/-0.127 $\chi^2$/NDF:2060.4/23

Right Out: 787.505+/-0.165 $\chi^2$/NDF: 351345.8/23

Left In: 774.990+/-0.128 $\chi^2$/NDF:3148.2/22

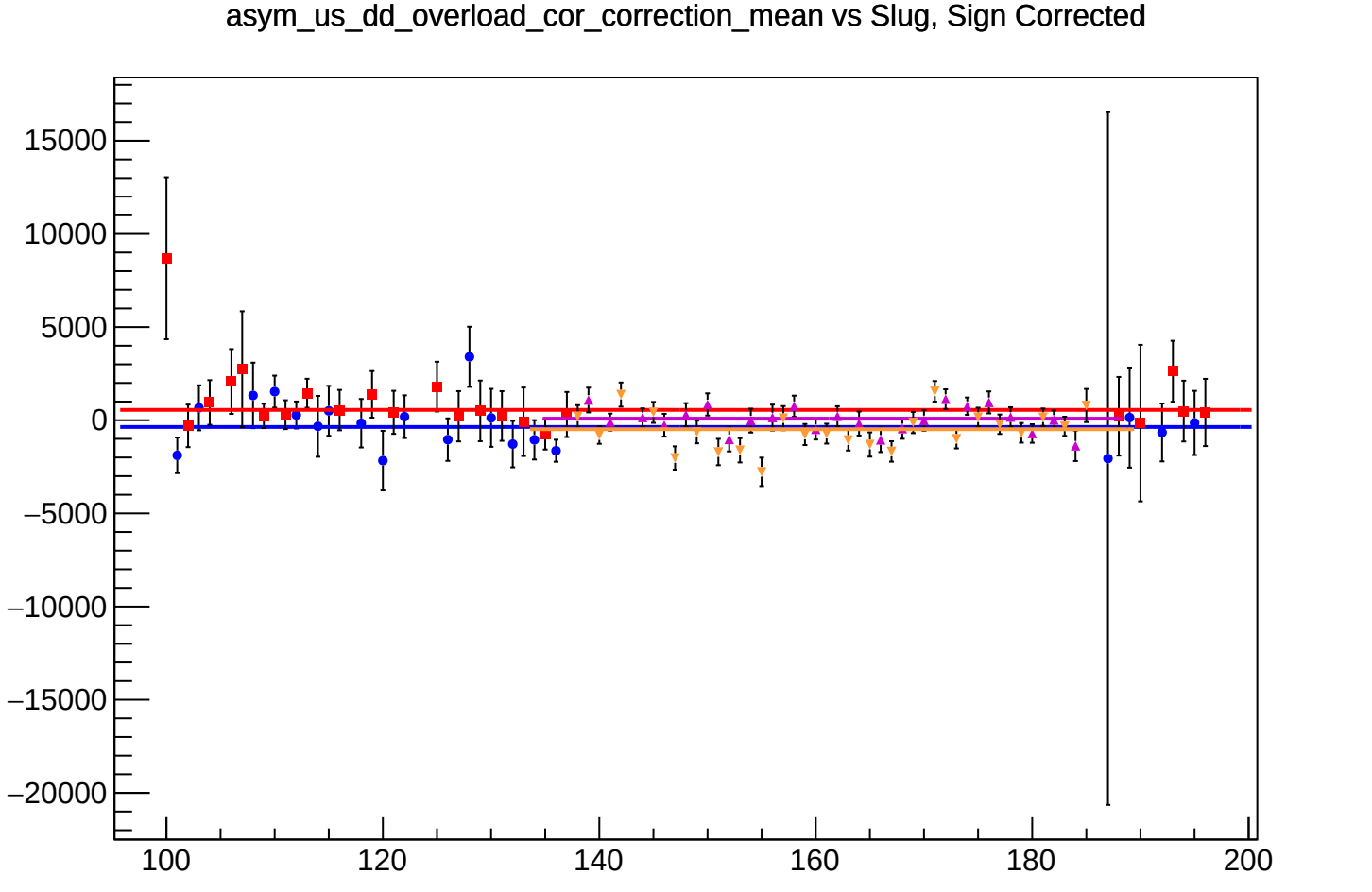
Left: 774.563+/-0.090 $\chi^2$/NDF: 5230.7/46

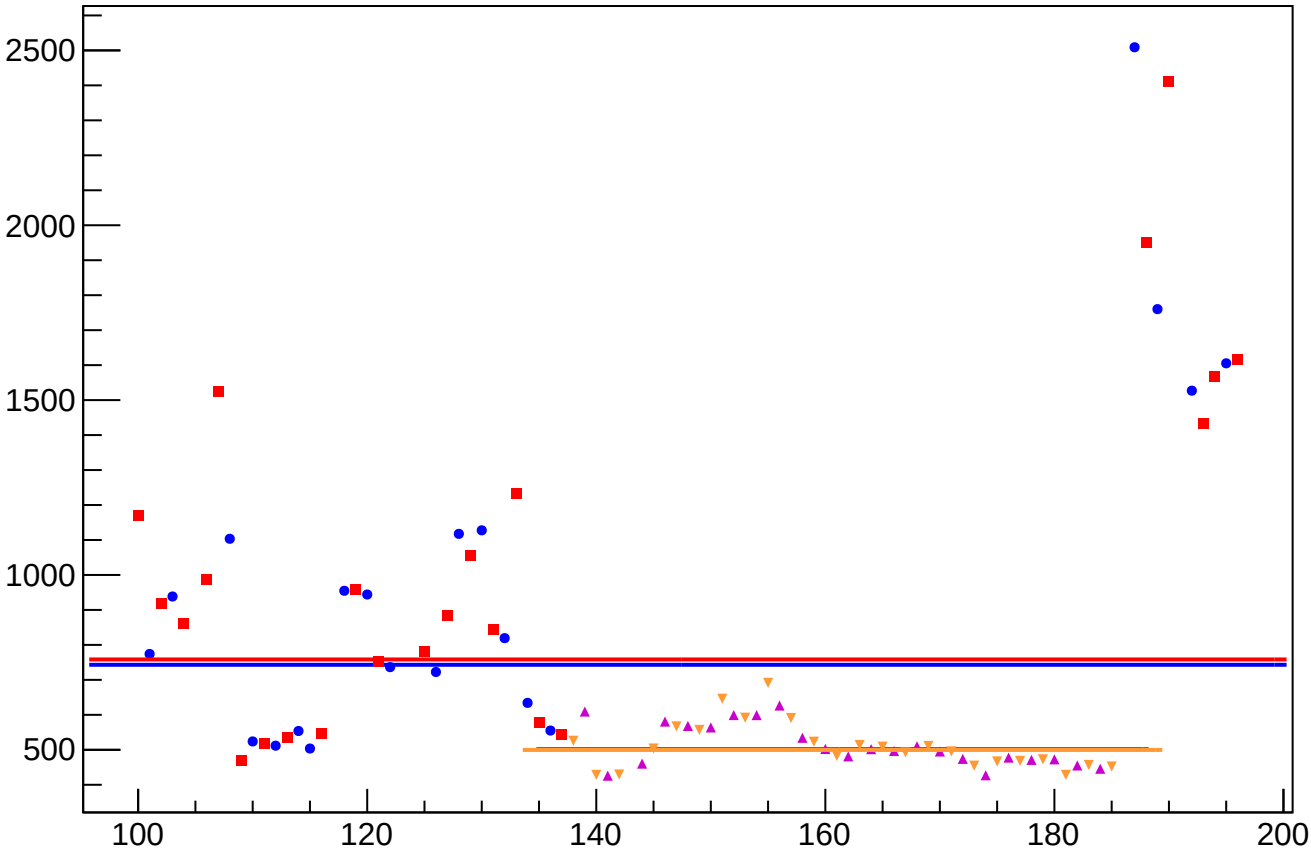
Right: 783.660+/-0.121 $\chi^2$/NDF: 447933.2/43

In: 776.453+/-0.104 $\chi^2$/NDF:98954.5/42

Out: 779.107+/-0.101 $\chi^2$/NDF:357516.7/47

All: 777.818+/-0.072 $\chi^2$/NDF: 456808.2/90


asym_us_dd_overload_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
100
120
140
160
180
200
Right In: -361.663+/-258.960 χ²/NDF: 23.5/19
Left Out: -481.314+/-117.092 χ²/NDF:63.5/23
Right Out: 555.878+/-251.894 χ²/NDF: 13.1/22
Left In: 83.196+/-118.194 χ²/NDF:28.2/22
Left: -201.704+/-83.183 χ²/NDF: 103.3/46
Right: 109.798+/-180.562 χ²/NDF: 43.0/42
In: 6.501+/-107.524 χ²/NDF:54.1/42
Out: -297.019+/-106.180 χ²/NDF:90.5/46
All: -147.167+/-75.551 χ²/NDF: 148.7/89




Right In: 743.178+/-0.183 $\chi^2$/NDF: 2426630.0/19

Left Out: 499.670+/-0.083 $\chi^2$/NDF:516314.6/23

Right Out: 758.403+/-0.178 $\chi^2$/NDF: 3733217.7/22

Left In: 502.026+/-0.084 $\chi^2$/NDF:467449.2/22

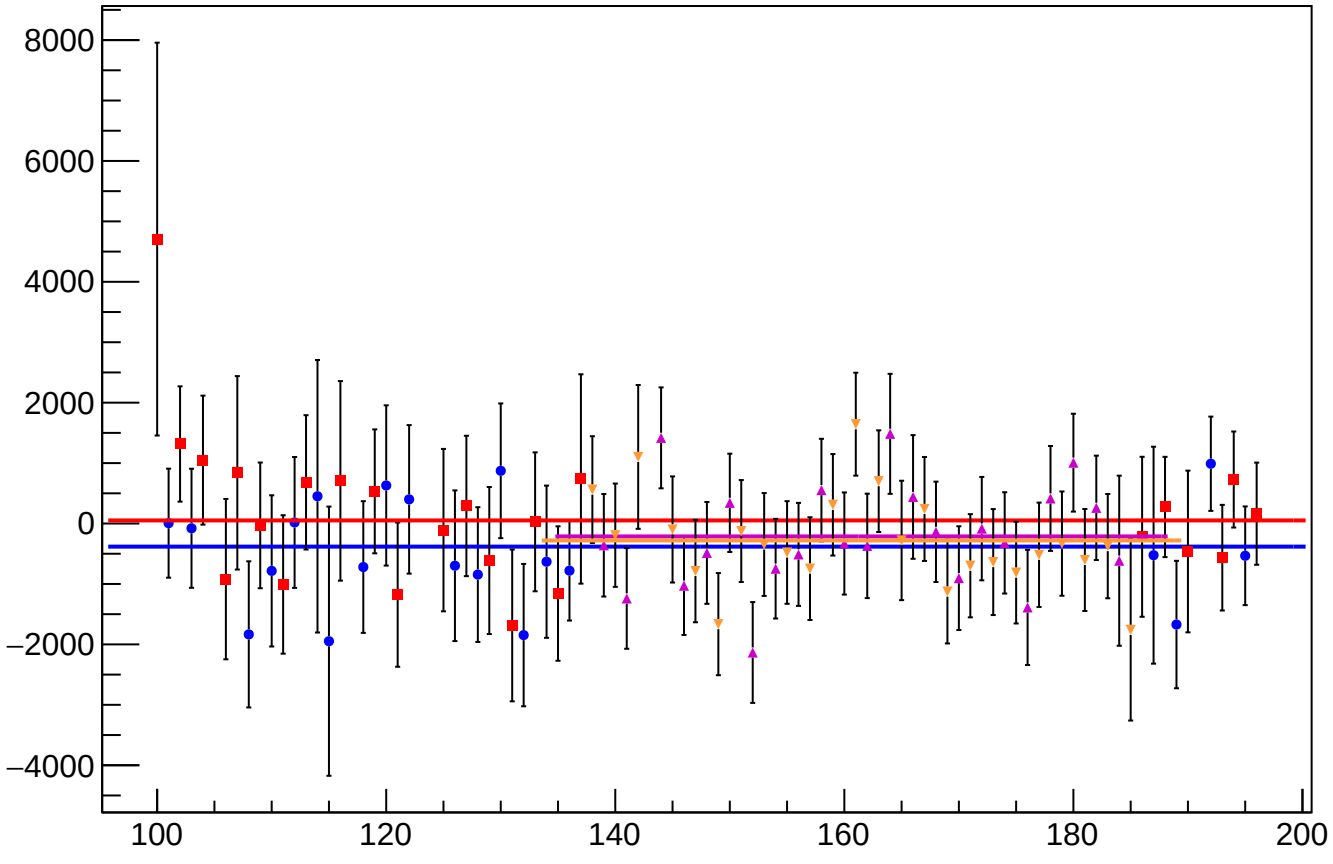
Left: 500.837+/-0.059 $\chi^2$/NDF: 984164.9/46

Right: 751.001+/-0.128 $\chi^2$/NDF: 6163399.7/42

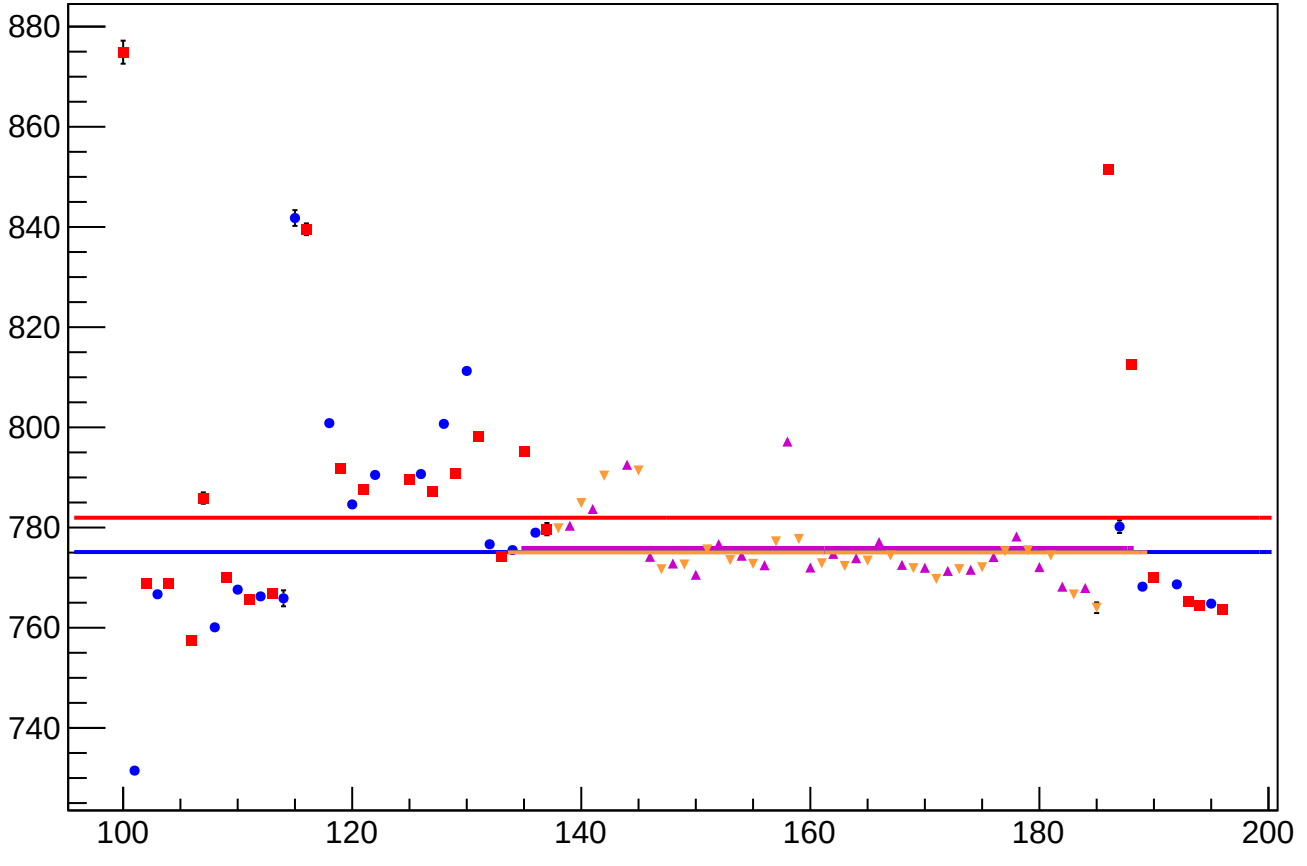
In: 543.601+/-0.076 $\chi^2$/NDF:4329453.0/42

Out: 545.643+/-0.075 $\chi^2$/NDF:5984679.8/46

All: 544.635+/-0.053 $\chi^2$/NDF: 10314498.0/89


eigen_cor_asym_us_dd_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
100
120
140
160
180
200
Right In: -382.171+/-247.453 χ²/NDF: 11.6/19
Left Out: -280.364+/-179.881 χ²/NDF:16.1/23
Right Out: 51.287+/-229.872 χ²/NDF: 13.2/23
Left In: -213.425+/-181.168 χ²/NDF:22.4/22
Left: -247.133+/-127.647 χ²/NDF: 38.5/46
Right: -149.498+/-168.417 χ²/NDF: 26.5/43
In: -272.311+/-146.178 χ²/NDF:34.3/42
Out: -154.408+/-141.663 χ²/NDF:30.6/47
All: -211.510+/-101.730 χ²/NDF: 65.2/90

# eigen_cor_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 775.111+/-0.175 $\chi^2$/NDF: 12769.7/19

Left Out: 775.050+/-0.127 $\chi^2$/NDF:1951.3/23

Right Out: 781.961+/-0.163 $\chi^2$/NDF: 18687.9/23

Left In: 775.922+/-0.128 $\chi^2$/NDF:2973.0/22

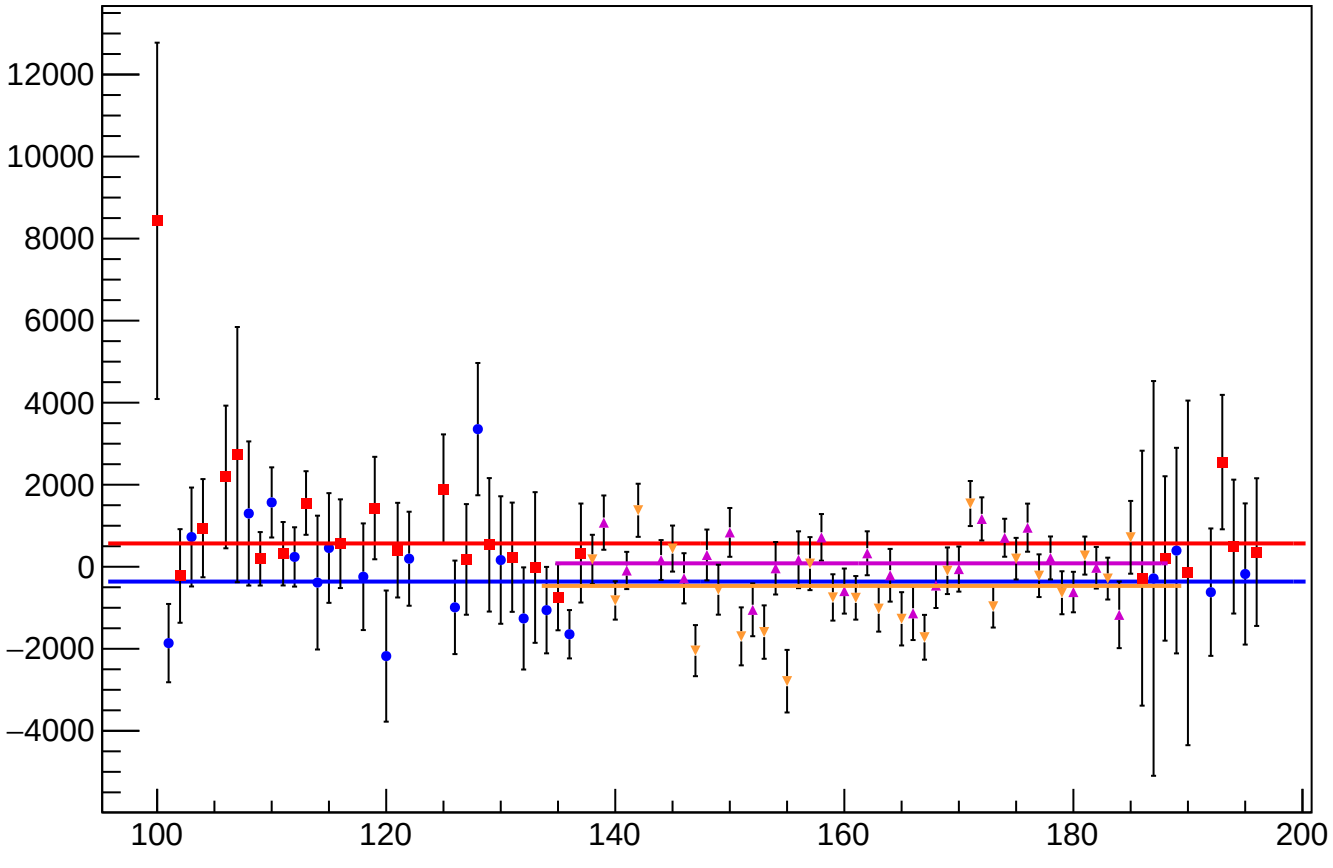
Left: 775.483+/-0.090 $\chi^2$/NDF: 4947.6/46

Right: 778.788+/-0.119 $\chi^2$/NDF: 32280.3/43

In: 775.639+/-0.103 $\chi^2$/NDF:15756.6/42

Out: 777.675+/-0.100 $\chi^2$/NDF:21760.7/47

All: 776.689+/-0.072 $\chi^2$/NDF: 37717.3/90




Right In: -361.391+/-258.080 $\chi^2$/NDF: 23.4/19

Left Out: -467.151+/-116.712 $\chi^2$/NDF:64.4/23

Right Out: 568.272+/-250.523 $\chi^2$/NDF: 13.3/23

Left In: 83.154+/-117.808 $\chi^2$/NDF:28.1/22

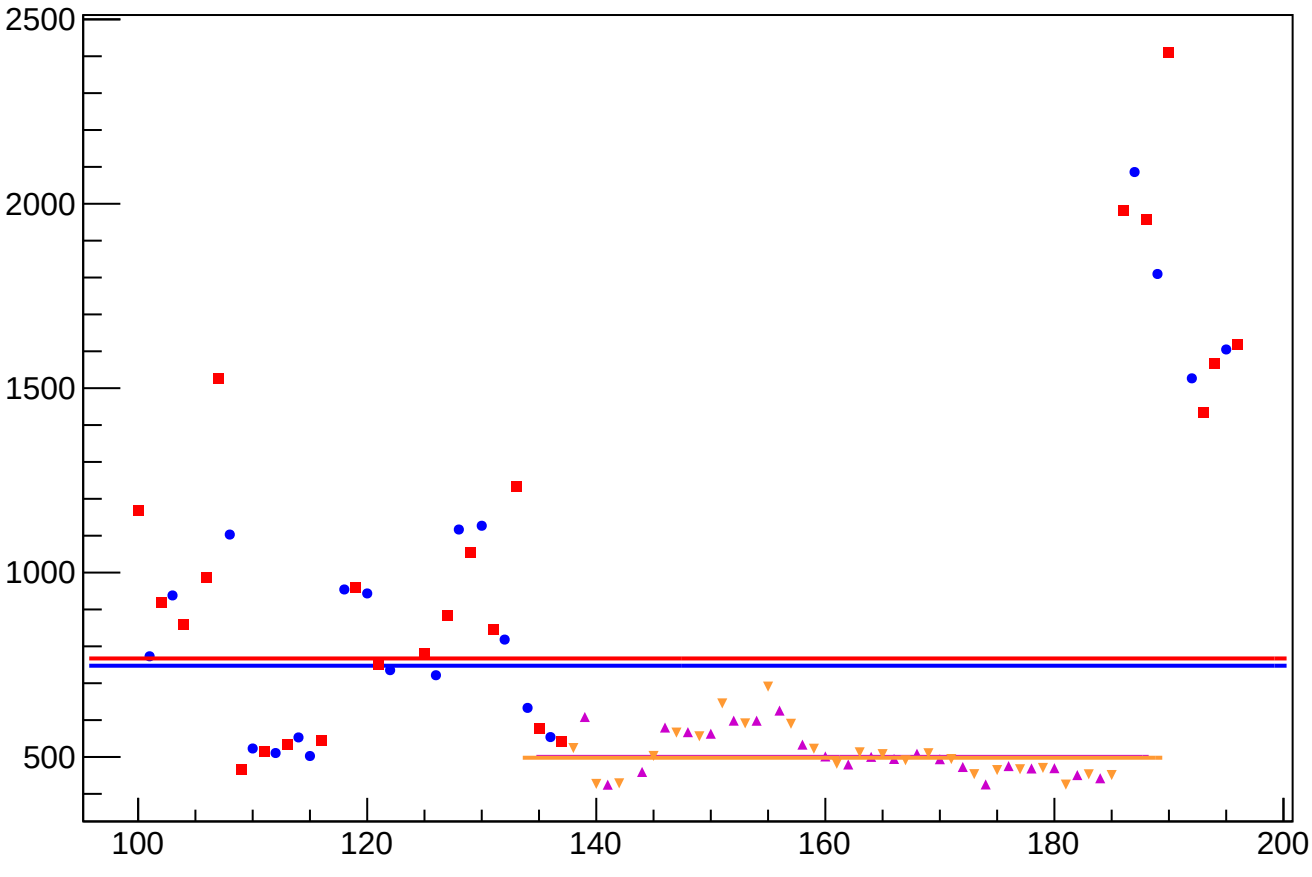
Left: -194.569+/-82.913 $\chi^2$/NDF: 103.6/46

Right: 117.250+/-179.759 $\chi^2$/NDF: 43.4/43

In: 6.497+/-107.170 $\chi^2$/NDF:54.0/42

Out: -282.500+/-105.795 $\chi^2$/NDF:91.8/47

All: -139.868+/-75.290 $\chi^2$/NDF: 149.5/90




Right In: 747.433+/-0.182 $\chi^2$/NDF: 2646354.1/19

Left Out: 497.966+/-0.083 $\chi^2$/NDF:526993.3/23

Right Out: 767.151+/-0.177 $\chi^2$/NDF: 4134743.6/23

Left In: 500.307+/-0.083 $\chi^2$/NDF:477388.4/22

Left: 499.125+/-0.059 $\chi^2$/NDF: 1004780.2/46

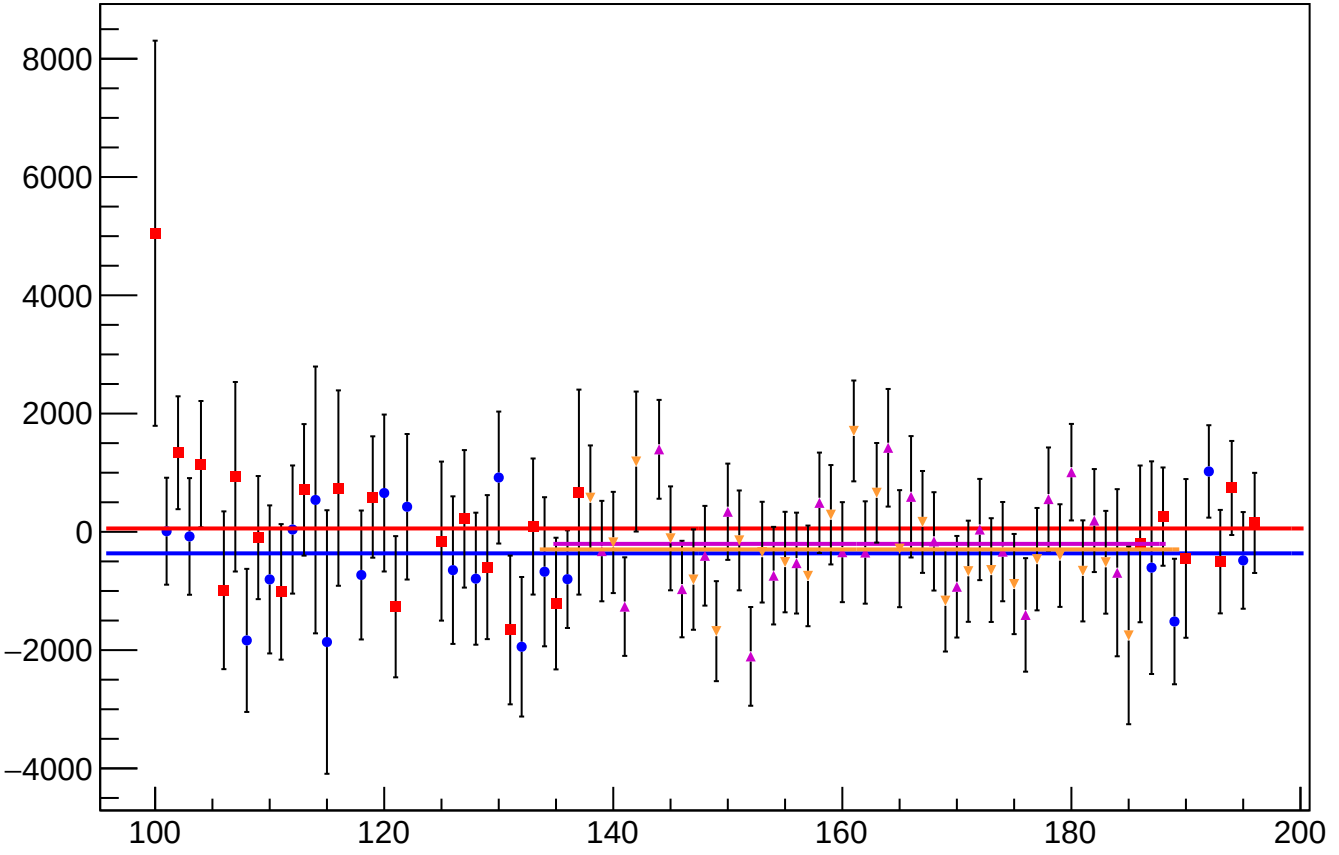
Right: 757.585+/-0.127 $\chi^2$/NDF: 6787108.7/43

In: 542.921+/-0.076 $\chi^2$/NDF:4641339.5/42

Out: 545.971+/-0.075 $\chi^2$/NDF:6559017.6/47

All: 544.466+/-0.053 $\chi^2$/NDF: 11201177.1/90

# dit_asym_us_dd_mean vs Slug, Sign Corrected




Right In: -363.700+/-247.807 $\chi^2$/NDF: 11.7/19

Left Out: -296.771+/-180.280 $\chi^2$/NDF:16.7/23

Right Out: 57.143+/-230.133 $\chi^2$/NDF: 14.0/23

Left In: -203.339+/-181.548 $\chi^2$/NDF:22.1/22

Left: -250.382+/-127.923 $\chi^2$/NDF: 38.9/46

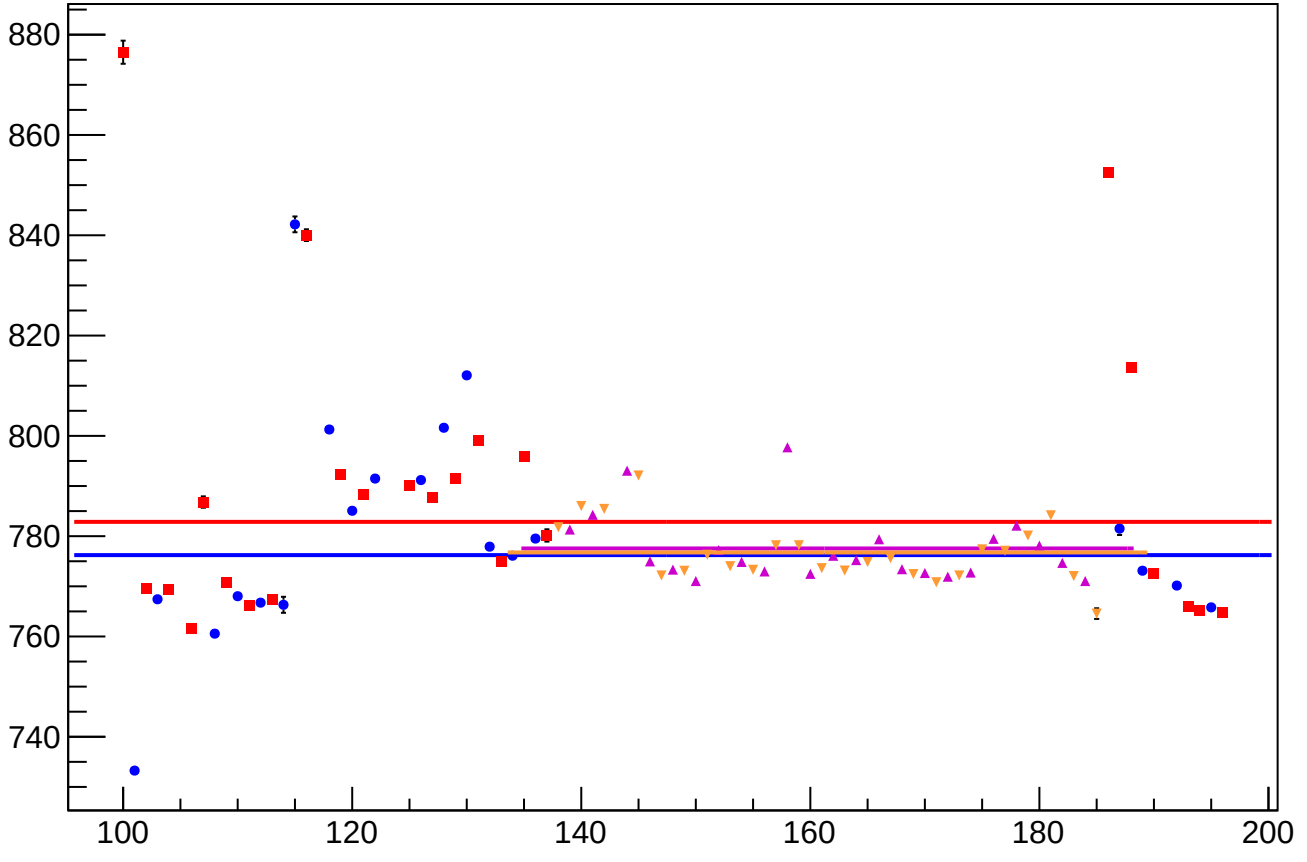
Right: -137.737+/-168.631 $\chi^2$/NDF: 27.3/43

In: -259.348+/-146.451 $\chi^2$/NDF:34.1/42

Out: -162.179+/-141.919 $\chi^2$/NDF:32.2/47

All: -209.236+/-101.916 $\chi^2$/NDF: 66.5/90

# dit_asym_us_dd_rms vs Slug, Sign Corrected




Right In: 776.225+/-0.175 $\chi^2$/NDF: 12394.3/19

Left Out: 776.751+/-0.127 $\chi^2$/NDF:1826.3/23

Right Out: 782.855+/-0.163 $\chi^2$/NDF: 18518.4/23

Left In: 777.550+/-0.128 $\chi^2$/NDF:2750.7/22

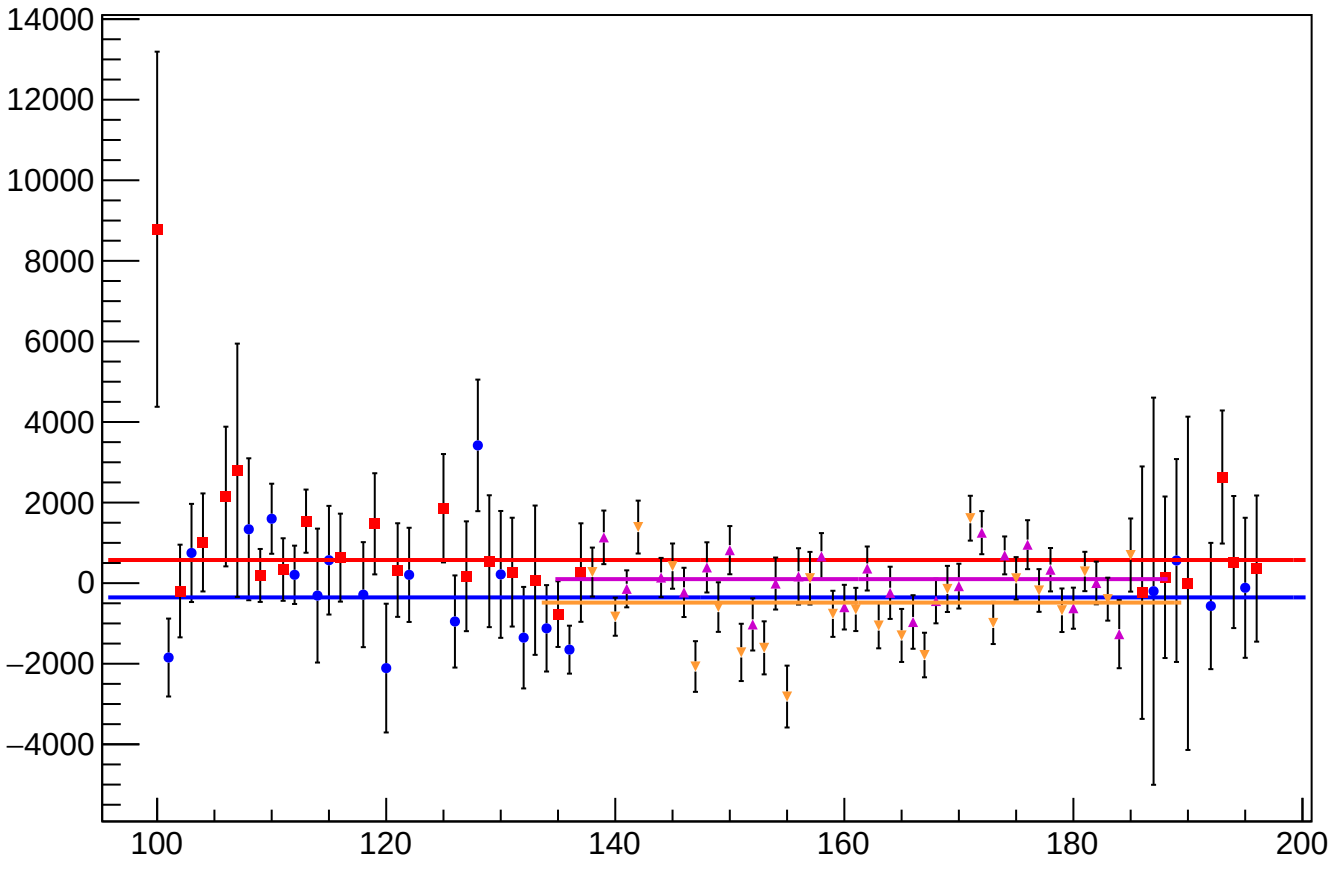
Left: 777.147+/-0.090 $\chi^2$/NDF: 4596.6/46

Right: 779.785+/-0.119 $\chi^2$/NDF: 31681.2/43

In: 777.087+/-0.104 $\chi^2$/NDF:15182.2/42

Out: 779.072+/-0.100 $\chi^2$/NDF:21216.6/47

All: 778.111+/-0.072 $\chi^2$/NDF: 36588.3/90




Right In: -353.607+/-260.586 $\chi^2$/NDF: 23.5/19

Left Out: -482.886+/-118.805 $\chi^2$/NDF:65.1/23

Right Out: 574.454+/-252.679 $\chi^2$/NDF: 13.5/23

Left In: 99.985+/-119.677 $\chi^2$/NDF:27.4/22

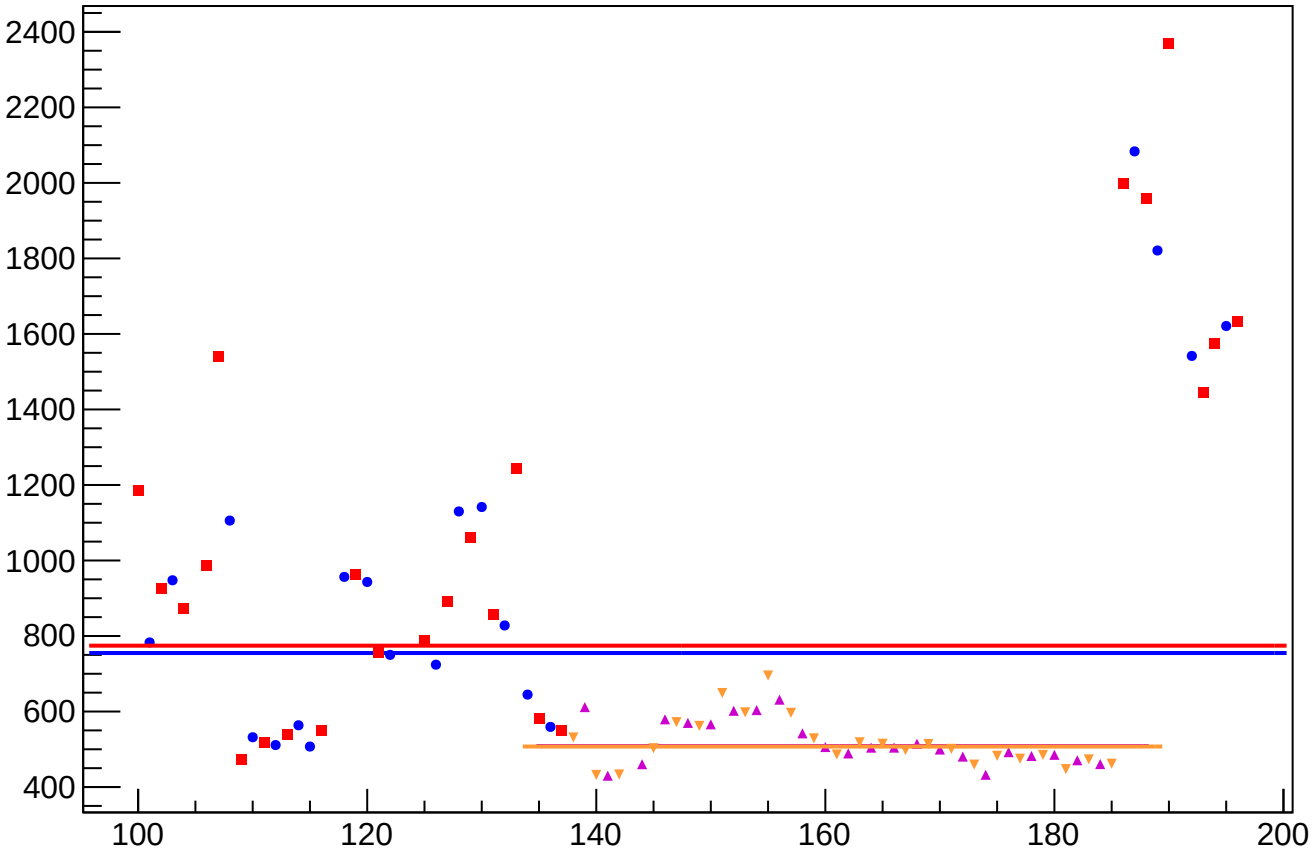
Left: -193.580+/-84.314 $\chi^2$/NDF: 104.5/46

Right: 124.717+/-181.402 $\chi^2$/NDF: 43.5/43

In: 20.978+/-108.756 $\chi^2$/NDF:53.4/42

Out: -291.457+/-107.514 $\chi^2$/NDF:92.9/47

All: -137.033+/-76.459 $\chi^2$/NDF: 150.5/90




Right In: 754.923+/-0.184 $\chi^2$/NDF: 2642663.2/19

Left Out: 507.319+/-0.084 $\chi^2$/NDF:473982.3/23

Right Out: 774.420+/-0.179 $\chi^2$/NDF: 4109425.4/23

Left In: 508.638+/-0.085 $\chi^2$/NDF:432447.1/22

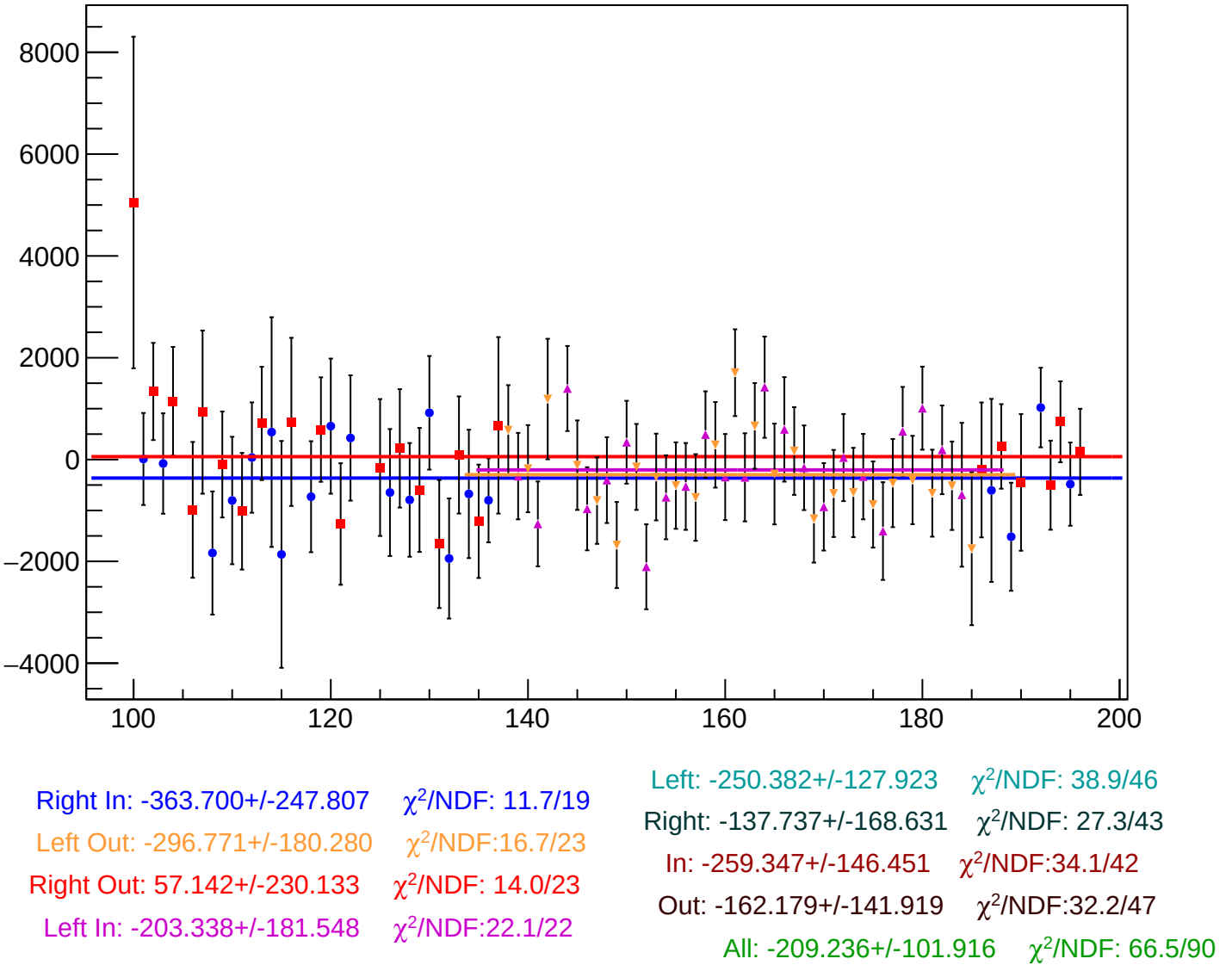
Left: 507.974+/-0.060 $\chi^2$/NDF: 906551.9/46

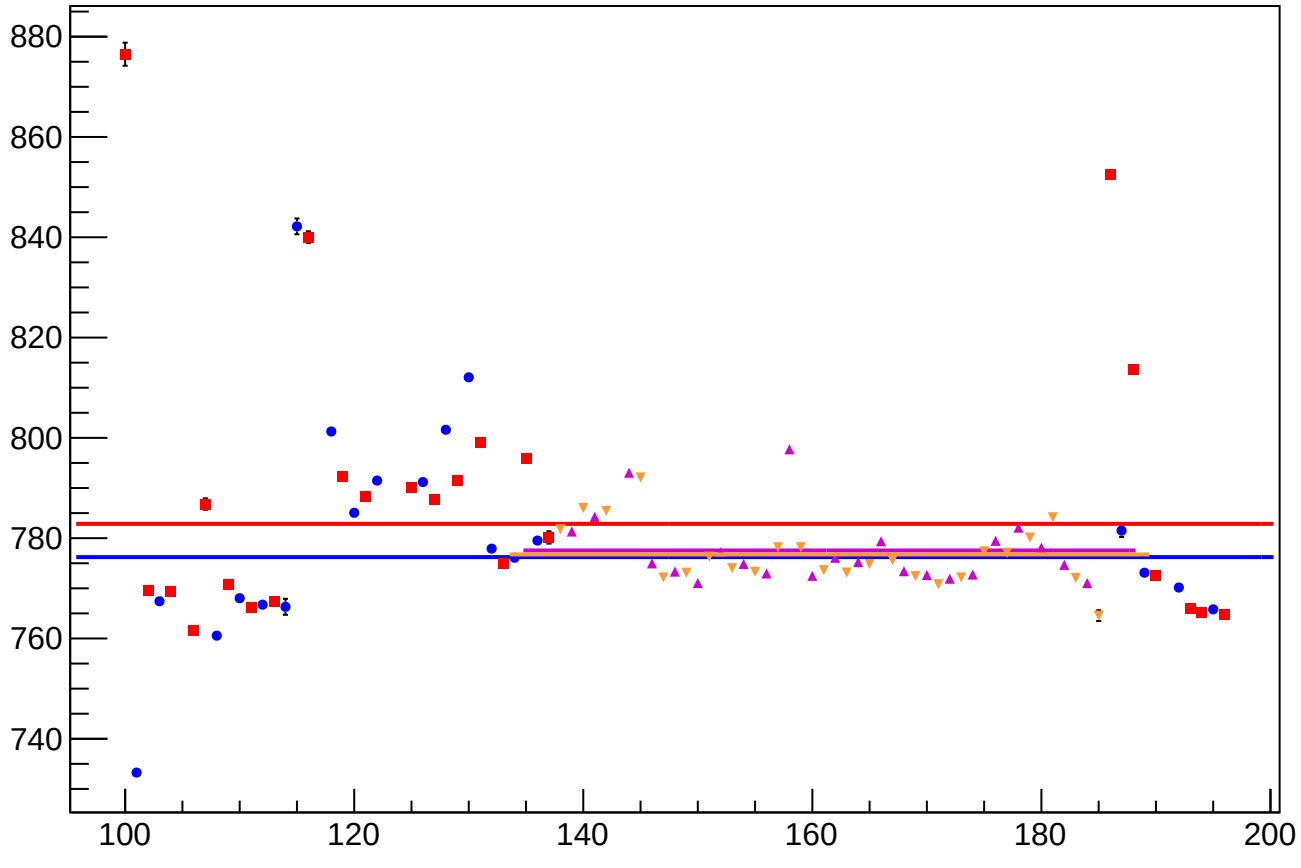
Right: 764.972+/-0.128 $\chi^2$/NDF: 6757859.3/43

In: 551.537+/-0.077 $\chi^2$/NDF:4550431.0/42

Out: 555.677+/-0.076 $\chi^2$/NDF:6413628.8/47

All: 553.631+/-0.054 $\chi^2$/NDF: 10965525.9/90


eigen_dit_asym_us_dd_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
100
120
140
160
180
200
Right In: -363.700+/-247.807 χ²/NDF: 11.7/19
Left Out: -296.771+/-180.280 χ²/NDF:16.7/23
Right Out: 57.142+/-230.133 χ²/NDF: 14.0/23
Left In: -203.338+/-181.548 χ²/NDF:22.1/22
Left: -250.382+/-127.923 χ²/NDF: 38.9/46
Right: -137.737+/-168.631 χ²/NDF: 27.3/43
In: -259.347+/-146.451 χ²/NDF:34.1/42
Out: -162.179+/-141.919 χ²/NDF:32.2/47
All: -209.236+/-101.916 χ²/NDF: 66.5/90




Right In: 776.225+/-0.175 $\chi^2$/NDF: 12394.2/19

Left Out: 776.751+/-0.127 $\chi^2$/NDF:1826.3/23

Right Out: 782.855+/-0.163 $\chi^2$/NDF: 18518.3/23

Left In: 777.550+/-0.128 $\chi^2$/NDF:2750.7/22

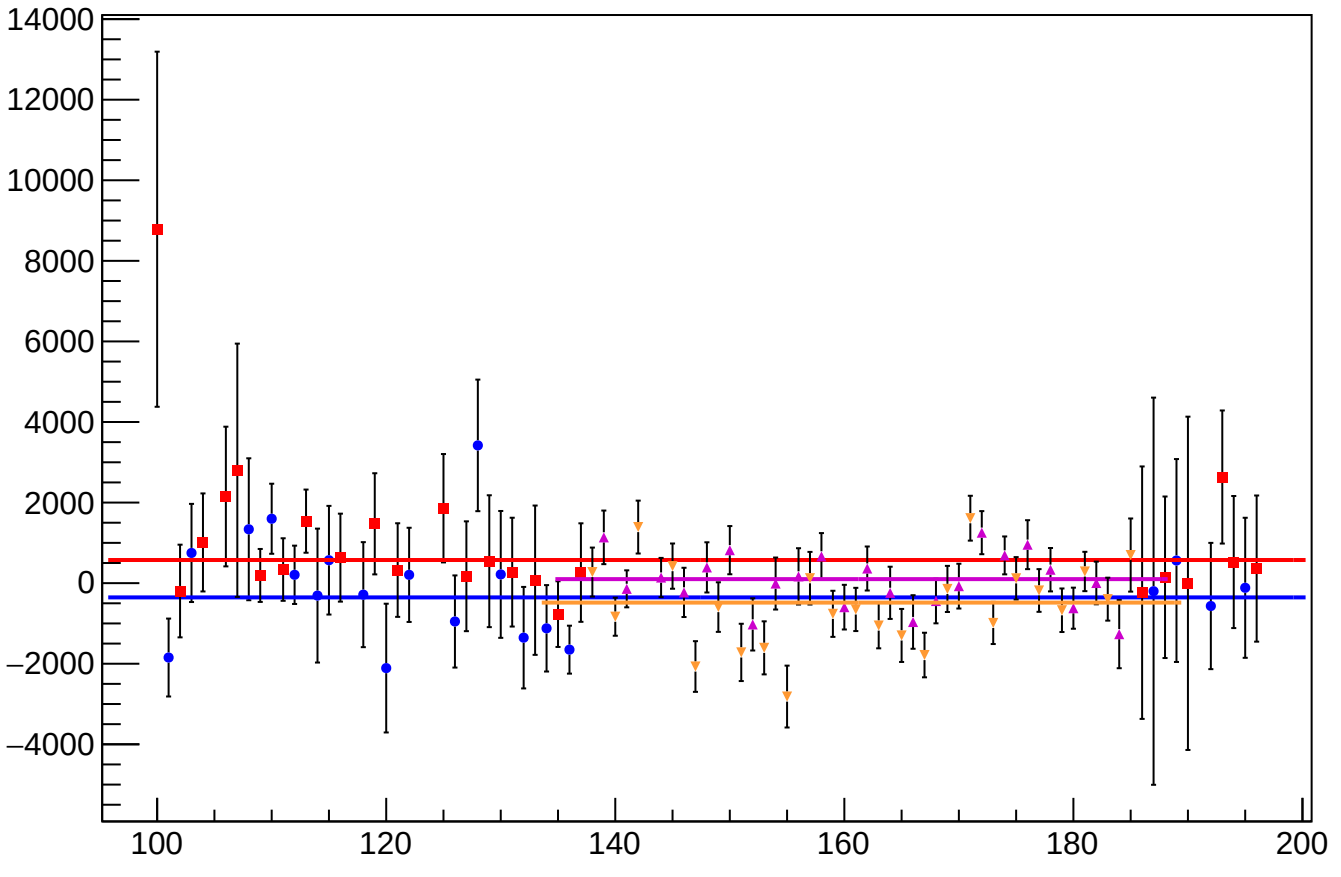
Left: 777.147+/-0.090 $\chi^2$/NDF: 4596.6/46

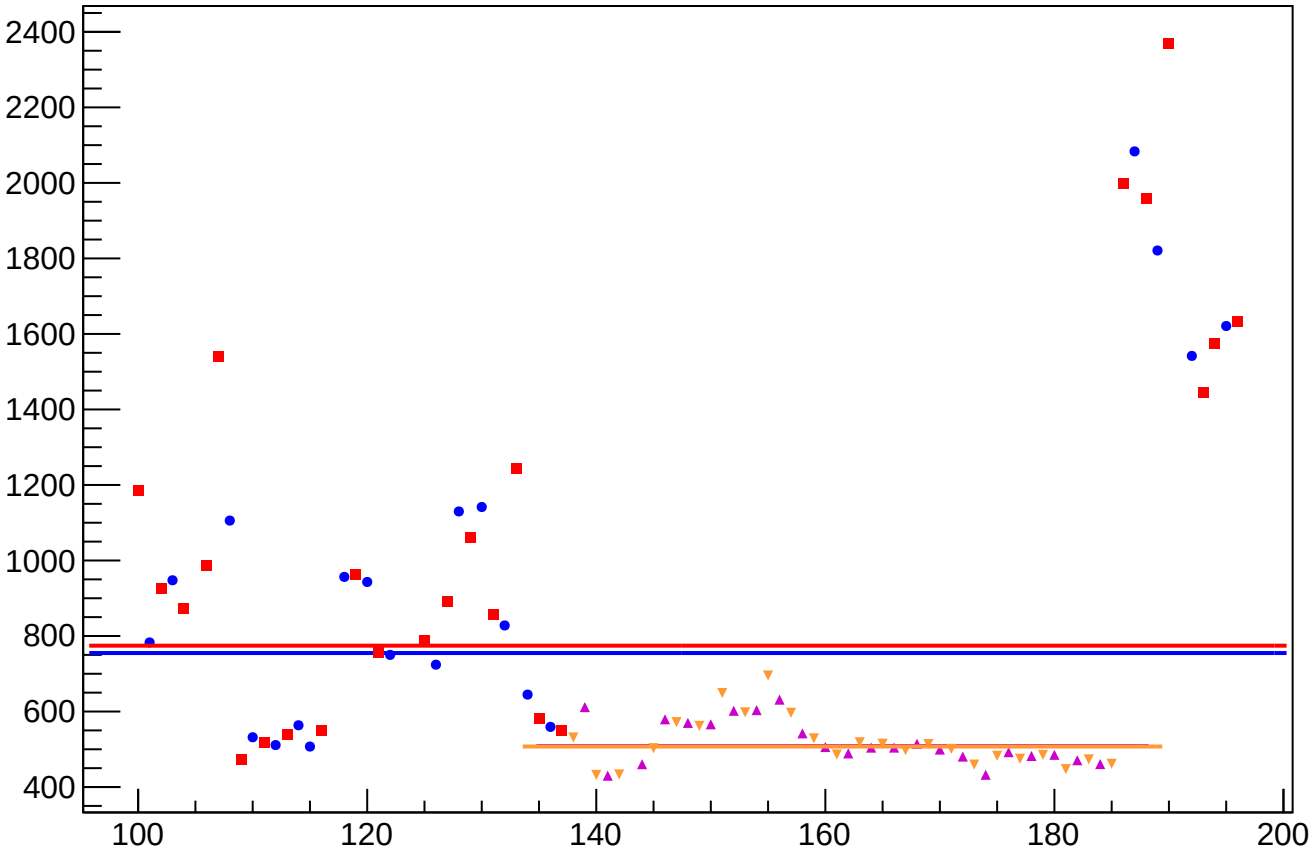
Right: 779.785+/-0.119 $\chi^2$/NDF: 31681.2/43

In: 777.087+/-0.104 $\chi^2$/NDF:15182.2/42

Out: 779.072+/-0.100 $\chi^2$/NDF:21216.6/47

All: 778.111+/-0.072 $\chi^2$/NDF: 36588.3/90


asym_us_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
100
120
140
160
180
200
Right In: -353.603+/-260.585 χ²/NDF: 23.5/19
Left Out: -482.886+/-118.806 χ²/NDF:65.1/23
Right Out: 574.453+/-252.678 χ²/NDF: 13.5/23
Left In: 99.985+/-119.677 χ²/NDF:27.4/22
Left: -193.580+/-84.314 χ²/NDF: 104.5/46
Right: 124.718+/-181.401 χ²/NDF: 43.5/43
In: 20.978+/-108.756 χ²/NDF:53.4/42
Out: -291.456+/-107.514 χ²/NDF:92.9/47
All: -137.032+/-76.459 χ²/NDF: 150.5/90




Right In: 754.919+/-0.184 $\chi^2$/NDF: 2642684.6/19

Left Out: 507.319+/-0.084 $\chi^2$/NDF:473992.3/23

Right Out: 774.417+/-0.179 $\chi^2$/NDF: 4109459.1/23

Left In: 508.638+/-0.085 $\chi^2$/NDF:432461.7/22

Left: 507.974+/-0.060 $\chi^2$/NDF: 906576.5/46

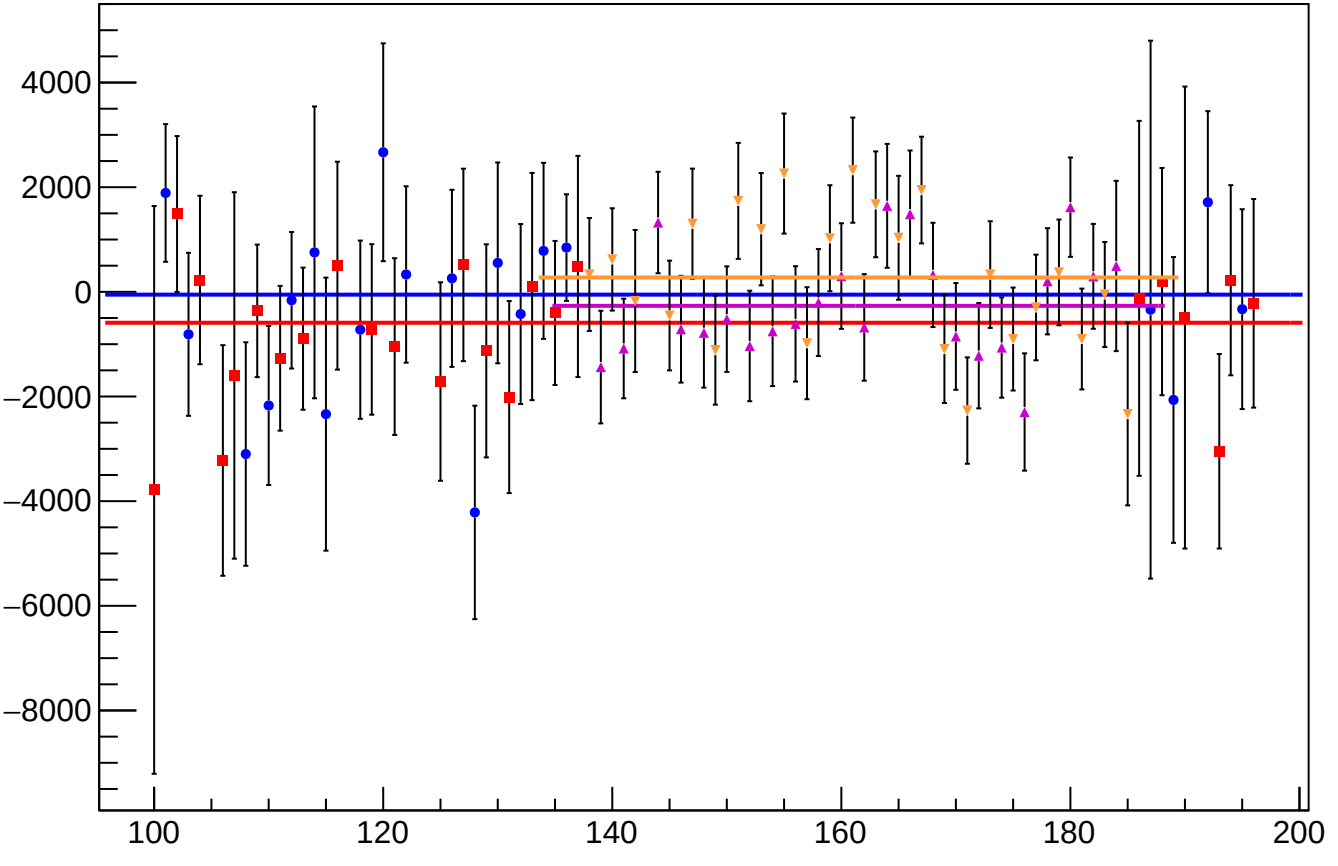
Right: 764.968+/-0.128 $\chi^2$/NDF: 6757914.6/43

In: 551.536+/-0.077 $\chi^2$/NDF:4550432.6/42

Out: 555.677+/-0.076 $\chi^2$/NDF:6413631.3/47

All: 553.630+/-0.054 $\chi^2$/NDF: 10965530.2/90

# asym_us_dd_mean vs Slug, Sign Corrected




Right In: -53.269+/-385.575 $\chi^2$/NDF: 16.1/19

Left Out: 275.181+/-216.290 $\chi^2$/NDF:33.6/23

Right Out: -590.289+/-375.334 $\chi^2$/NDF: 8.7/23

Left In: -267.059+/-217.685 $\chi^2$/NDF:21.4/22

Left: 5.805+/-153.431 $\chi^2$/NDF: 58.1/46

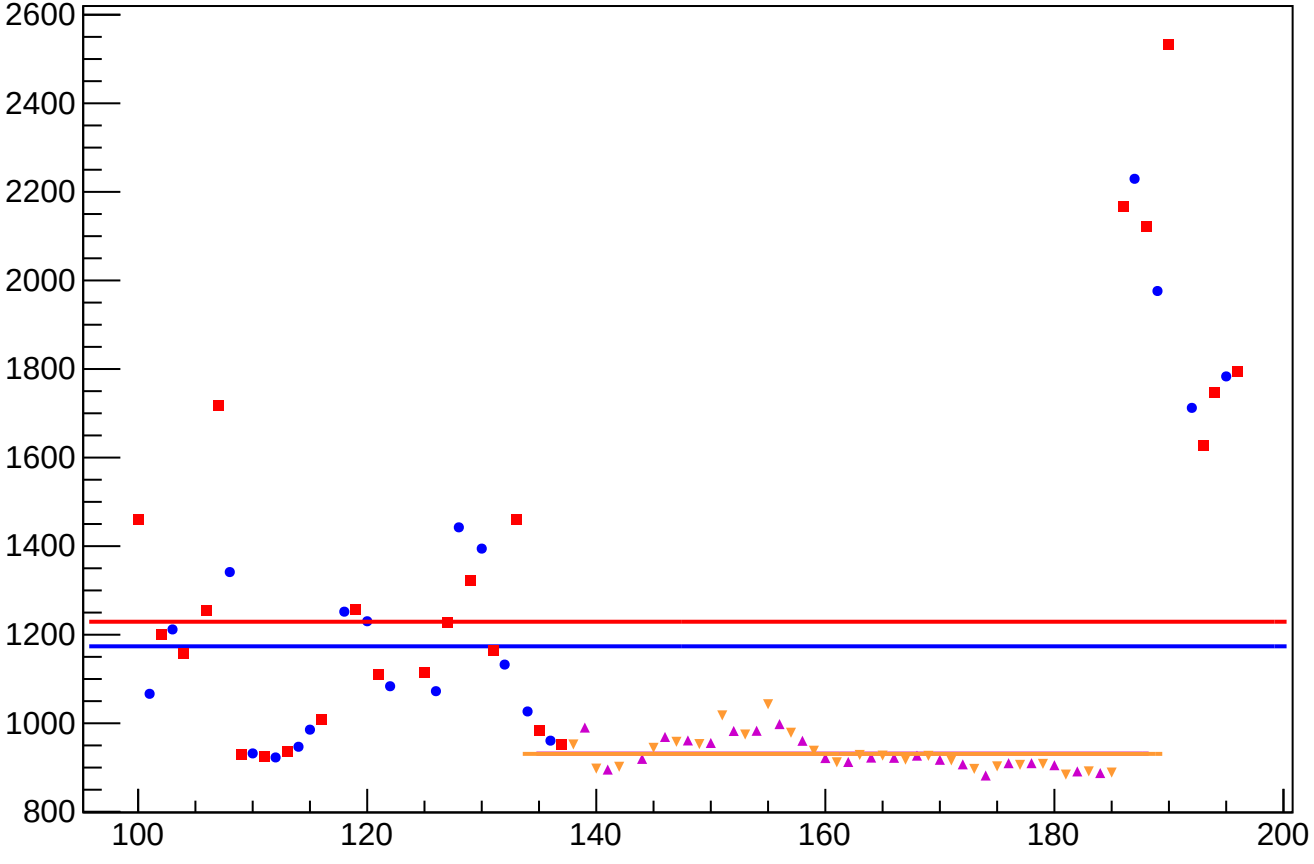
Right: -329.006+/-268.949 $\chi^2$/NDF: 25.8/43

In: -215.386+/-189.561 $\chi^2$/NDF:37.7/42

Out: 59.427+/-187.401 $\chi^2$/NDF:46.3/47

All: -76.405+/-133.269 $\chi^2$/NDF: 85.1/90

# asym_us_dd_rms vs Slug, Sign Corrected




Right In: 1173.804+/-0.273 $\chi^2$/NDF: 1011018.8/19

Left Out: 930.922+/-0.153 $\chi^2$/NDF:61953.0/23

Right Out: 1229.318+/-0.265 $\chi^2$/NDF: 1599889.1/23

Left In: 931.562+/-0.154 $\chi^2$/NDF:48916.1/22

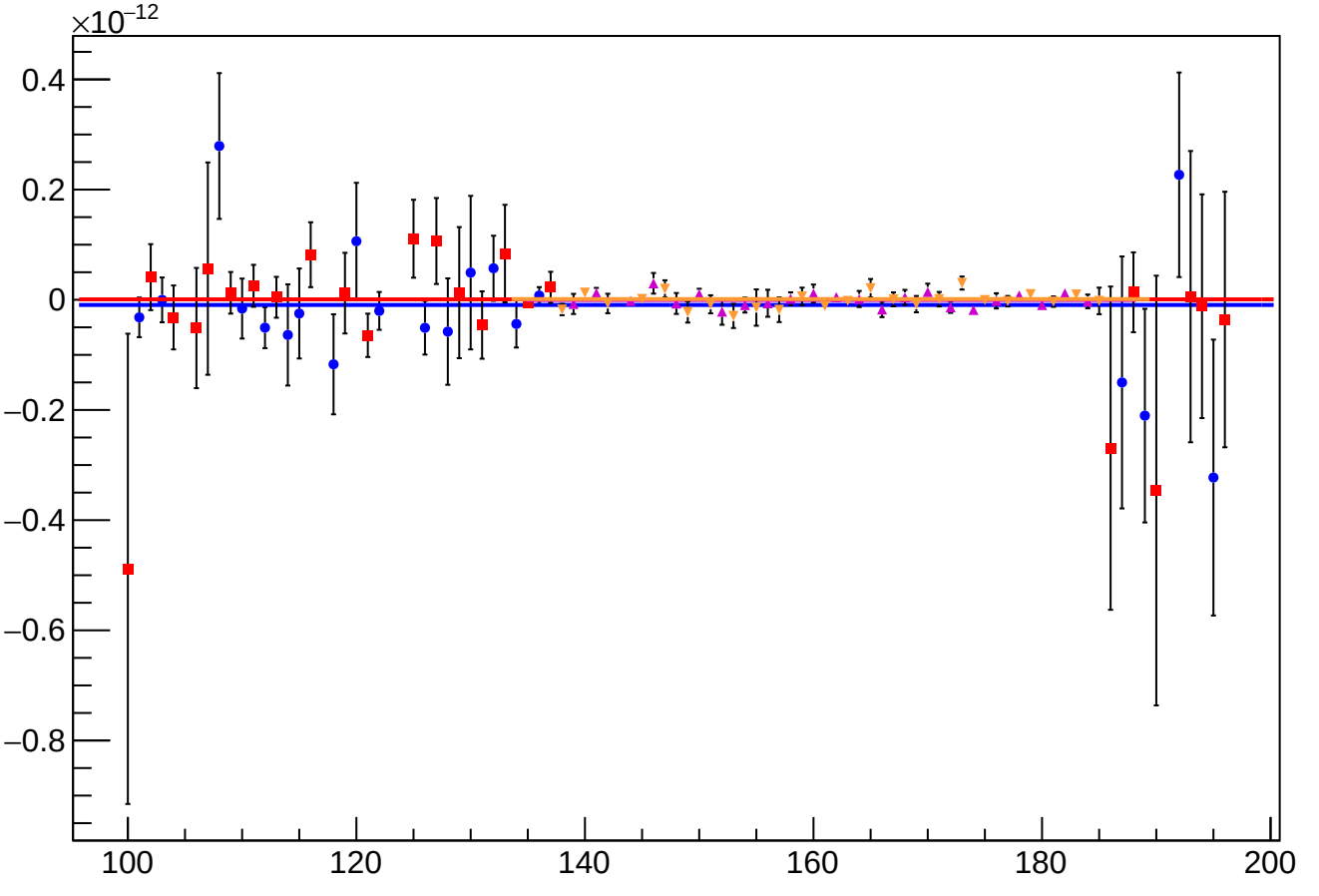
Left: 931.240+/-0.108 $\chi^2$/NDF: 110877.8/46

Right: 1202.308+/-0.190 $\chi^2$/NDF: 2632195.4/43

In: 990.112+/-0.134 $\chi^2$/NDF:1658553.2/42

Out: 1005.310+/-0.133 $\chi^2$/NDF:2610809.2/47

All: 997.798+/-0.094 $\chi^2$/NDF: 4275863.6/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.0/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.1/22

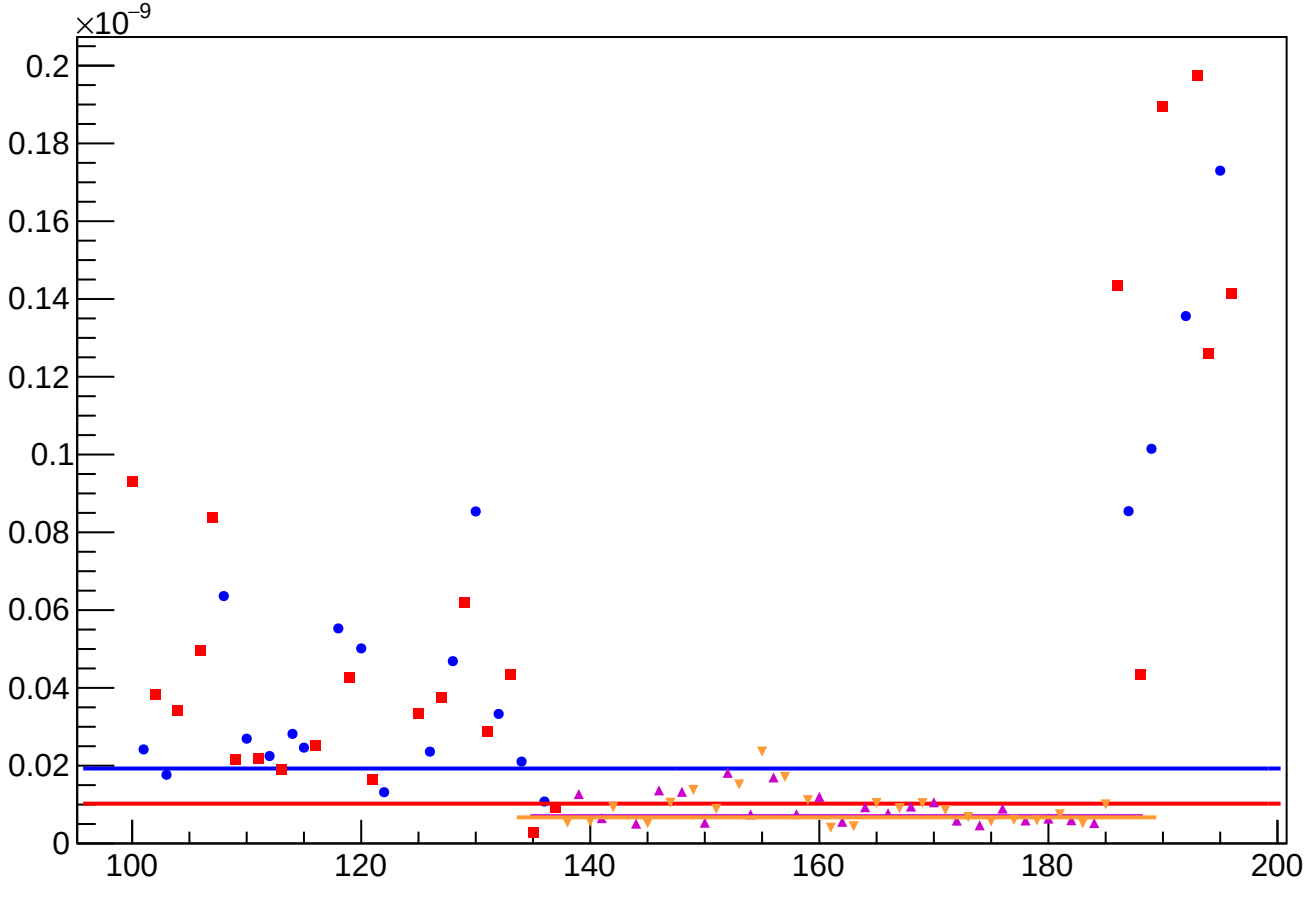
Left: 0.000+/-0.000 $\chi^2$/NDF: 48.0/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.2/43

In: -0.000+/-0.000 $\chi^2$/NDF:41.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:41.7/47

All: 0.000+/-0.000 $\chi^2$/NDF: 83.4/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4326479.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2928195.0/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8717047.6/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2443418.1/22

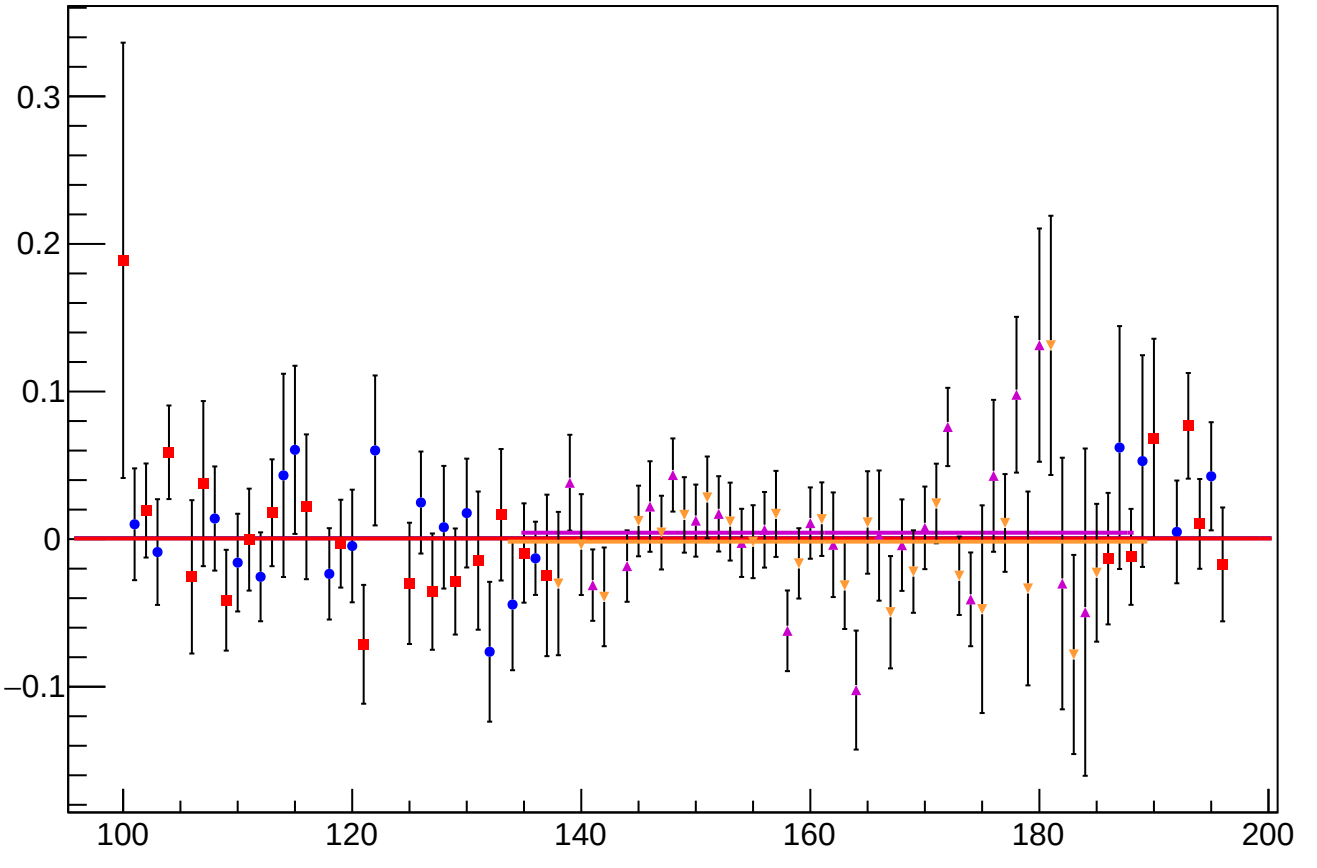
Left: 0.000+/-0.000 $\chi^2$/NDF: 5389849.5/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 14088093.5/43

In: 0.000+/-0.000 $\chi^2$/NDF:9513233.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12080093.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 21672016.0/90




Right In: 0.001+/-0.009 $\chi^2$/NDF: 11.9/19

Left Out: -0.002+/-0.006 $\chi^2$/NDF:14.6/23

Right Out: 0.000+/-0.008 $\chi^2$/NDF: 19.9/23

Left In: 0.004+/-0.006 $\chi^2$/NDF:36.5/22

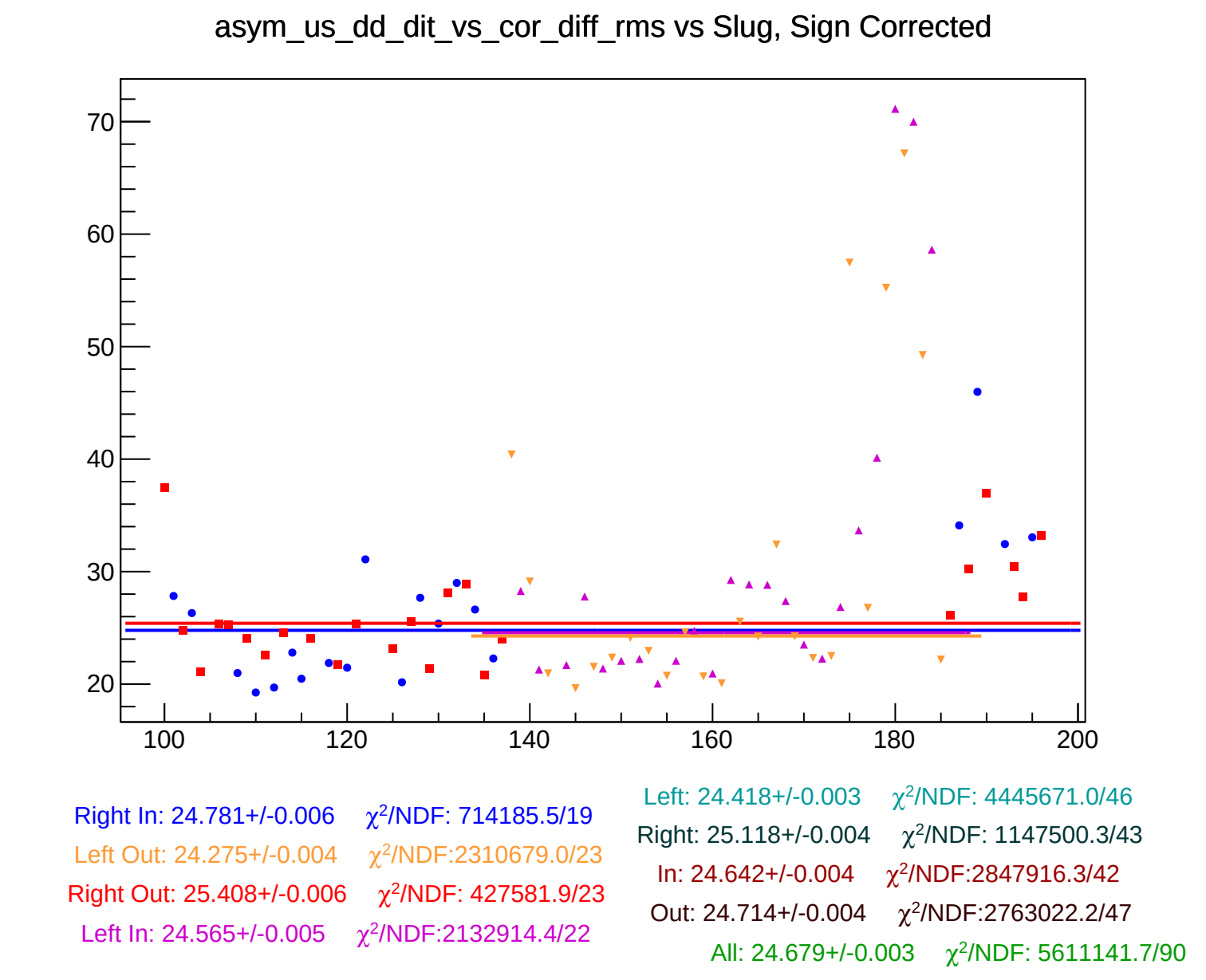
Left: 0.001+/-0.005 $\chi^2$/NDF: 51.6/46

Right: 0.001+/-0.006 $\chi^2$/NDF: 31.7/43

In: 0.003+/-0.005 $\chi^2$/NDF:48.5/42

Out: -0.001+/-0.005 $\chi^2$/NDF:34.5/47

All: 0.001+/-0.004 $\chi^2$/NDF: 83.3/90


asym_us_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected
70
60
50
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30
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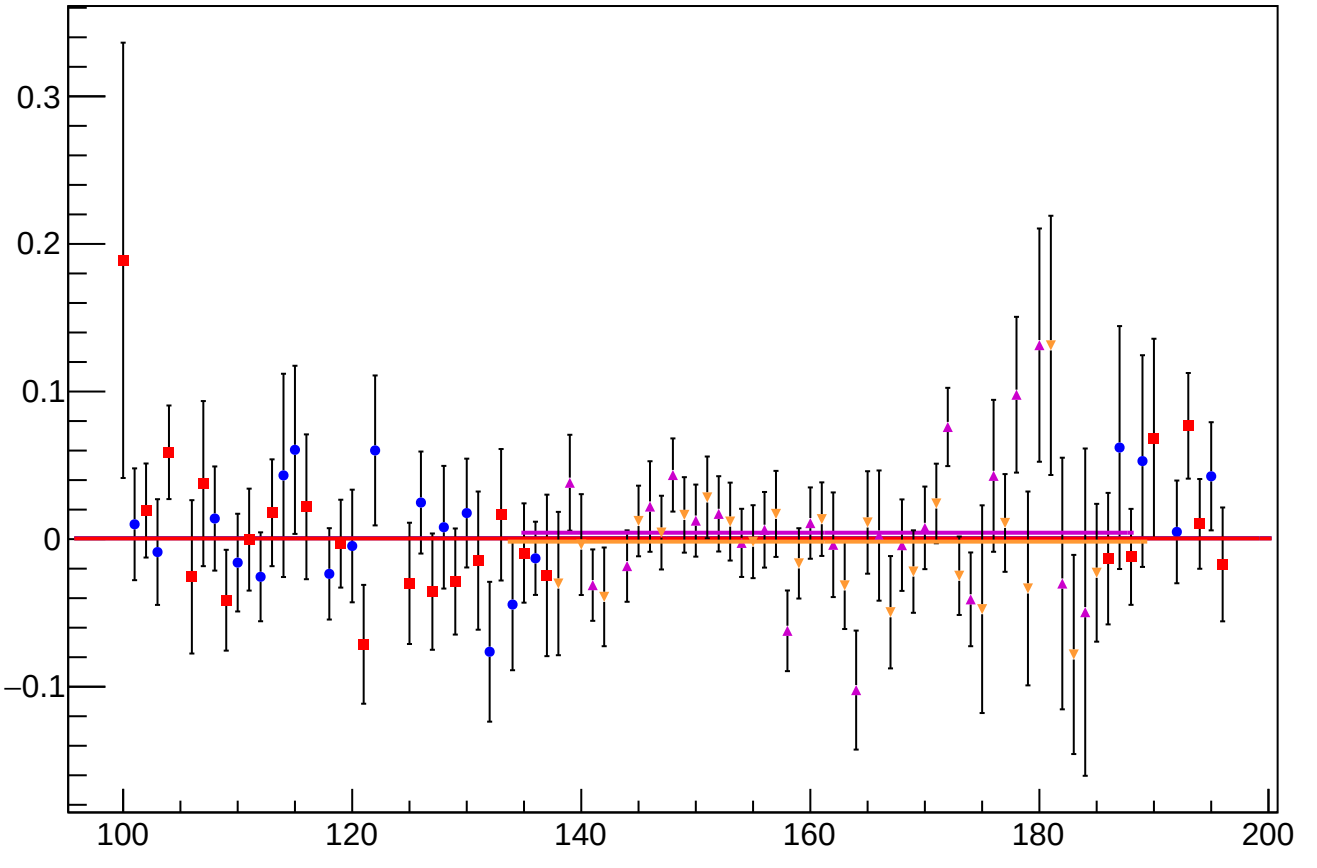
100
120
140
160
180
200
Right In: 24.781+/-0.006 χ²/NDF: 714185.5/19
Left Out: 24.275+/-0.004 χ²/NDF:2310679.0/23
Right Out: 25.408+/-0.006 χ²/NDF: 427581.9/23
Left In: 24.565+/-0.005 χ²/NDF:2132914.4/22
Left: 24.418+/-0.003 χ²/NDF: 4445671.0/46
Right: 25.118+/-0.004 χ²/NDF: 1147500.3/43
In: 24.642+/-0.004 χ²/NDF:2847916.3/42
Out: 24.714+/-0.004 χ²/NDF:2763022.2/47
All: 24.679+/-0.003 χ²/NDF: 5611141.7/90




Right In: 0.001+/-0.009 $\chi^2$/NDF: 11.9/19

Left Out: -0.002+/-0.006 $\chi^2$/NDF:14.6/23

Right Out: 0.000+/-0.008 $\chi^2$/NDF: 19.9/23

Left In: 0.004+/-0.006 $\chi^2$/NDF:36.5/22

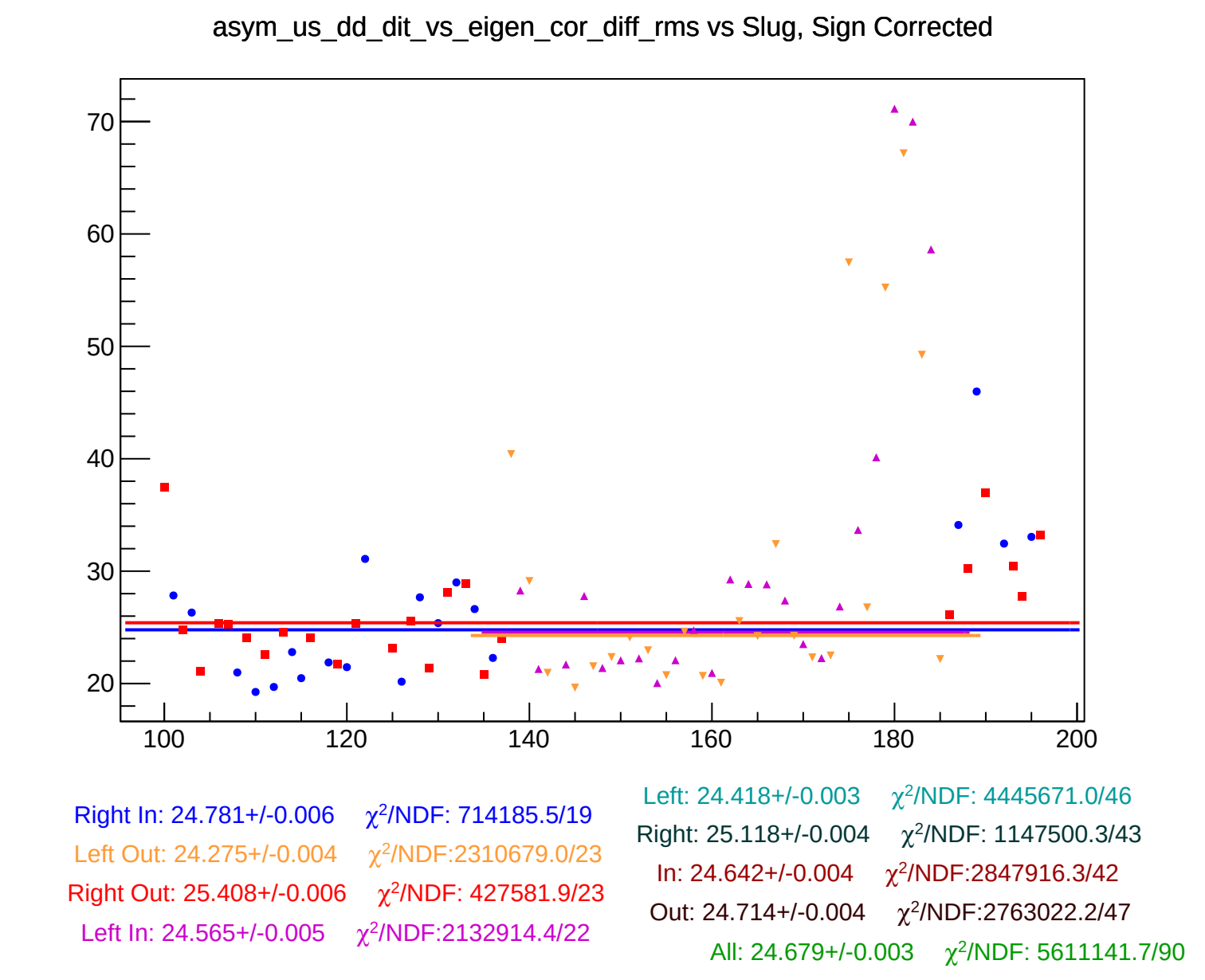
Left: 0.001+/-0.005 $\chi^2$/NDF: 51.6/46

Right: 0.001+/-0.006 $\chi^2$/NDF: 31.7/43

In: 0.003+/-0.005 $\chi^2$/NDF:48.5/42

Out: -0.001+/-0.005 $\chi^2$/NDF:34.5/47

All: 0.001+/-0.004 $\chi^2$/NDF: 83.3/90


asym_us_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
70
60
50
40
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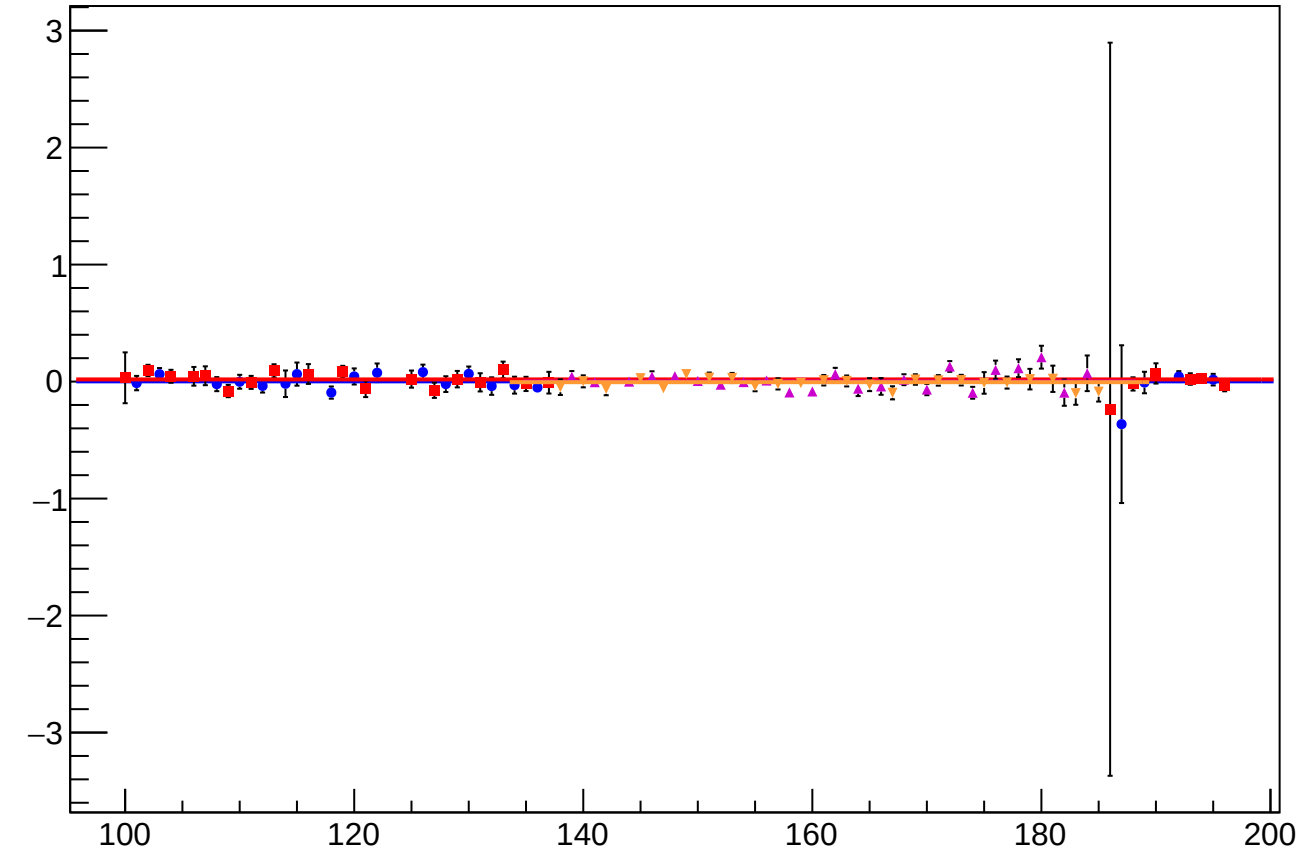
20
100
120
140
160
180
200
Right In: 24.781+/-0.006 χ²/NDF: 714185.5/19
Left Out: 24.275+/-0.004 χ²/NDF:2310679.0/23
Right Out: 25.408+/-0.006 χ²/NDF: 427581.9/23
Left In: 24.565+/-0.005 χ²/NDF:2132914.4/22
Left: 24.418+/-0.003 χ²/NDF: 4445671.0/46
Right: 25.118+/-0.004 χ²/NDF: 1147500.3/43
In: 24.642+/-0.004 χ²/NDF:2847916.3/42
Out: 24.714+/-0.004 χ²/NDF:2763022.2/47
All: 24.679+/-0.003 χ²/NDF: 5611141.7/90




Right In: 0.002+/-0.014 $\chi^2$/NDF: 12.9/19

Left Out: -0.005+/-0.010 $\chi^2$/NDF:13.9/23

Right Out: 0.018+/-0.013 $\chi^2$/NDF: 17.3/23

Left In: 0.000+/-0.010 $\chi^2$/NDF:37.9/22

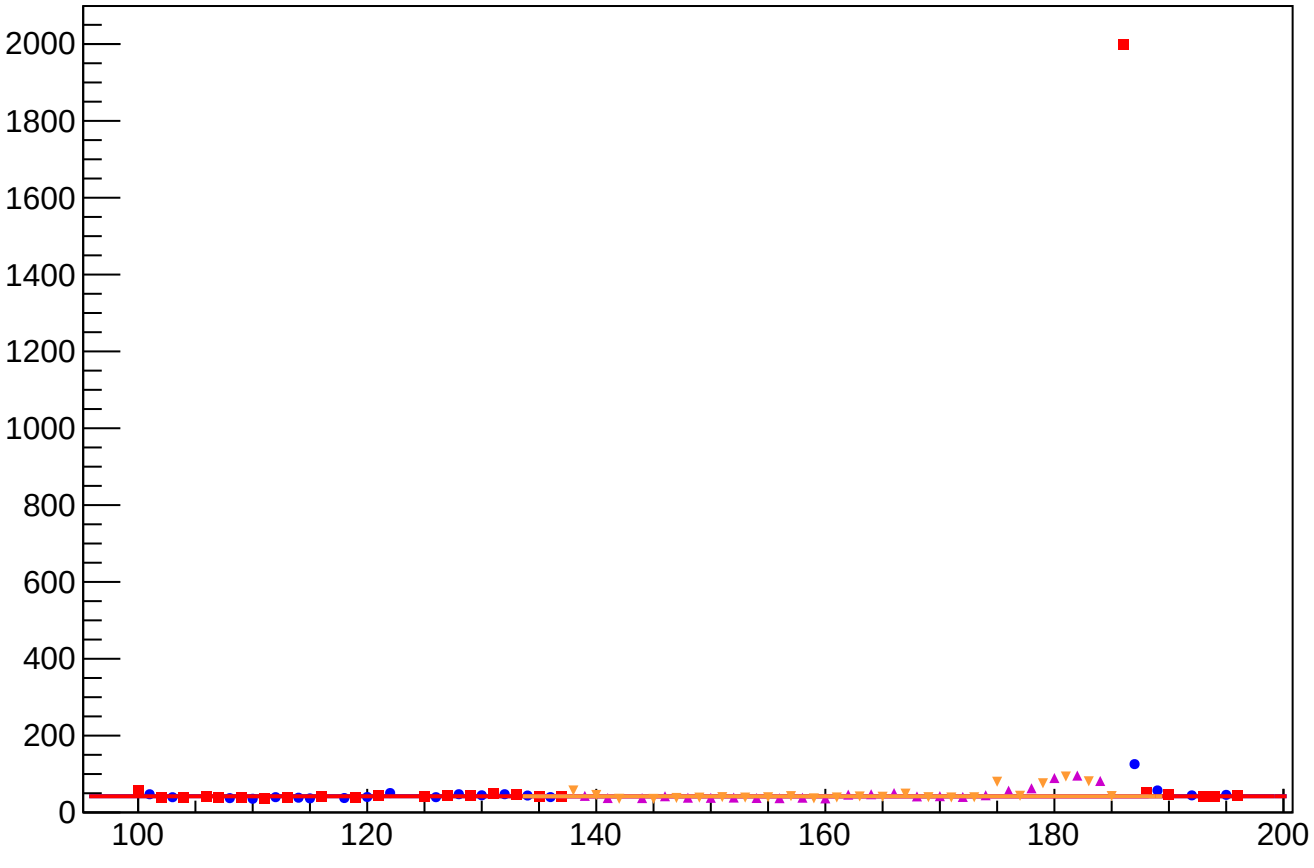
Left: -0.002+/-0.007 $\chi^2$/NDF: 51.9/46

Right: 0.011+/-0.010 $\chi^2$/NDF: 31.0/43

In: 0.001+/-0.008 $\chi^2$/NDF:50.9/42

Out: 0.004+/-0.008 $\chi^2$/NDF:33.2/47

All: 0.003+/-0.006 $\chi^2$/NDF: 84.2/90




Right In: 42.318+/-0.010 $\chi^2$/NDF: 242475.5/19

Left Out: 42.088+/-0.007 $\chi^2$/NDF:1716047.0/23

Right Out: 42.069+/-0.009 $\chi^2$/NDF: 956545.3/23

Left In: 42.078+/-0.007 $\chi^2$/NDF:1543505.8/22

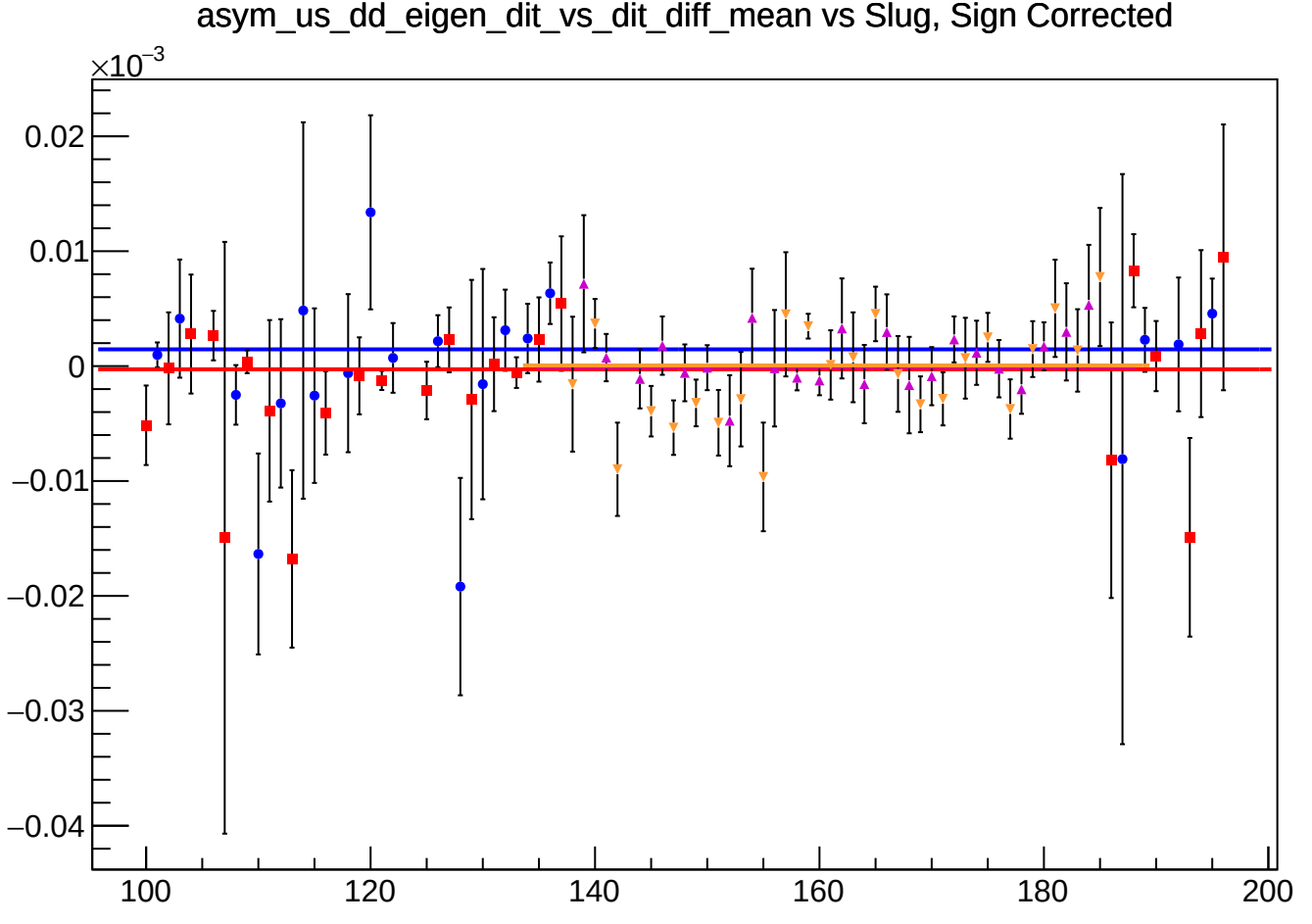
Left: 42.083+/-0.005 $\chi^2$/NDF: 3259553.8/46

Right: 42.183+/-0.007 $\chi^2$/NDF: 1199359.7/43

In: 42.163+/-0.006 $\chi^2$/NDF:1786358.6/42

Out: 42.081+/-0.006 $\chi^2$/NDF:2672595.0/47

All: 42.120+/-0.004 $\chi^2$/NDF: 4459052.1/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:51.7/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.8/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.0/22

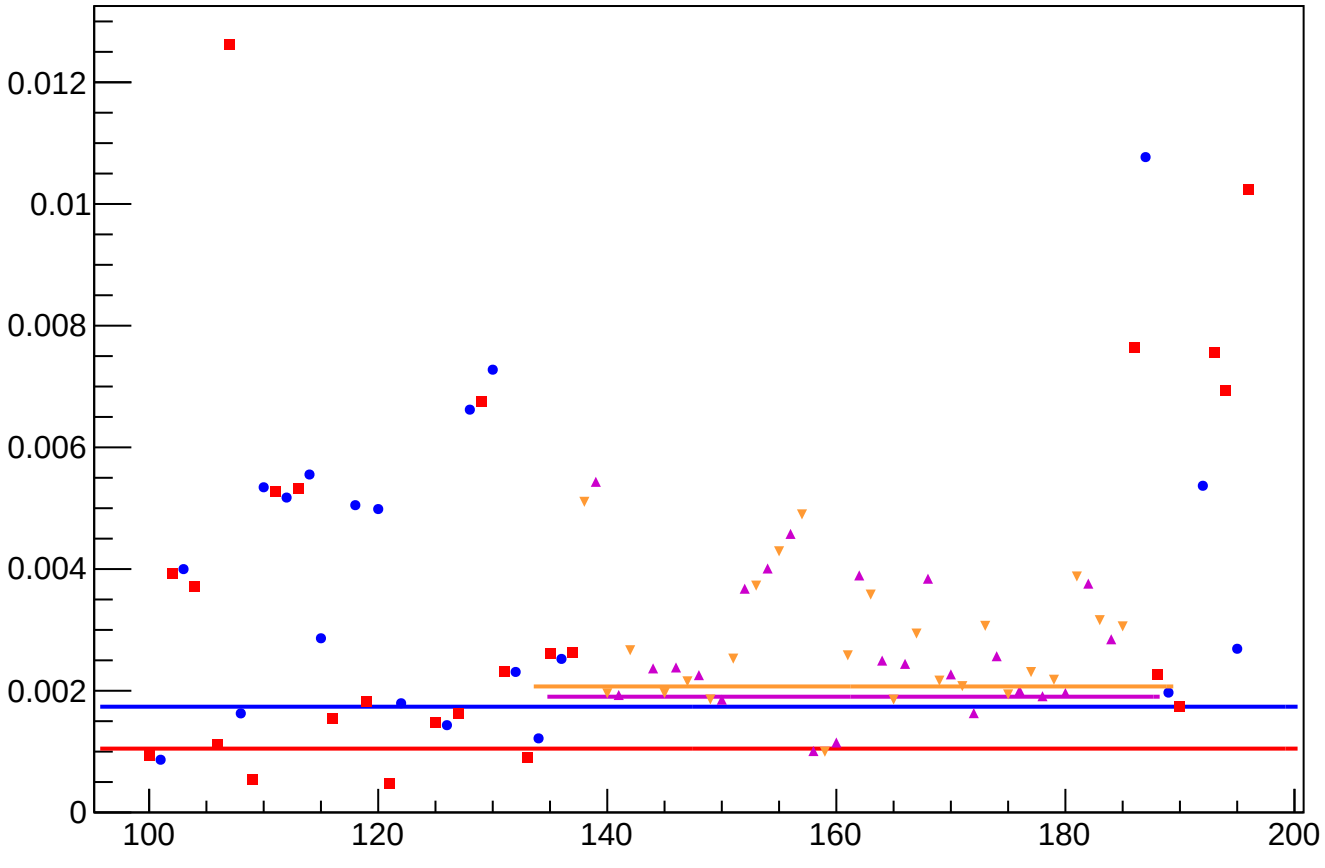
Left: -0.000+/-0.000 $\chi^2$/NDF: 64.7/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 50.7/43

In: 0.000+/-0.000 $\chi^2$/NDF:35.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:78.6/47

All: 0.000+/-0.000 $\chi^2$/NDF: 115.6/90




Right In: 0.002+/-0.000 $\chi^2$/NDF: 6086387.3/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:5263163.7/23

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 10616965.3/23

Left In: 0.002+/-0.000 $\chi^2$/NDF:5935945.7/22

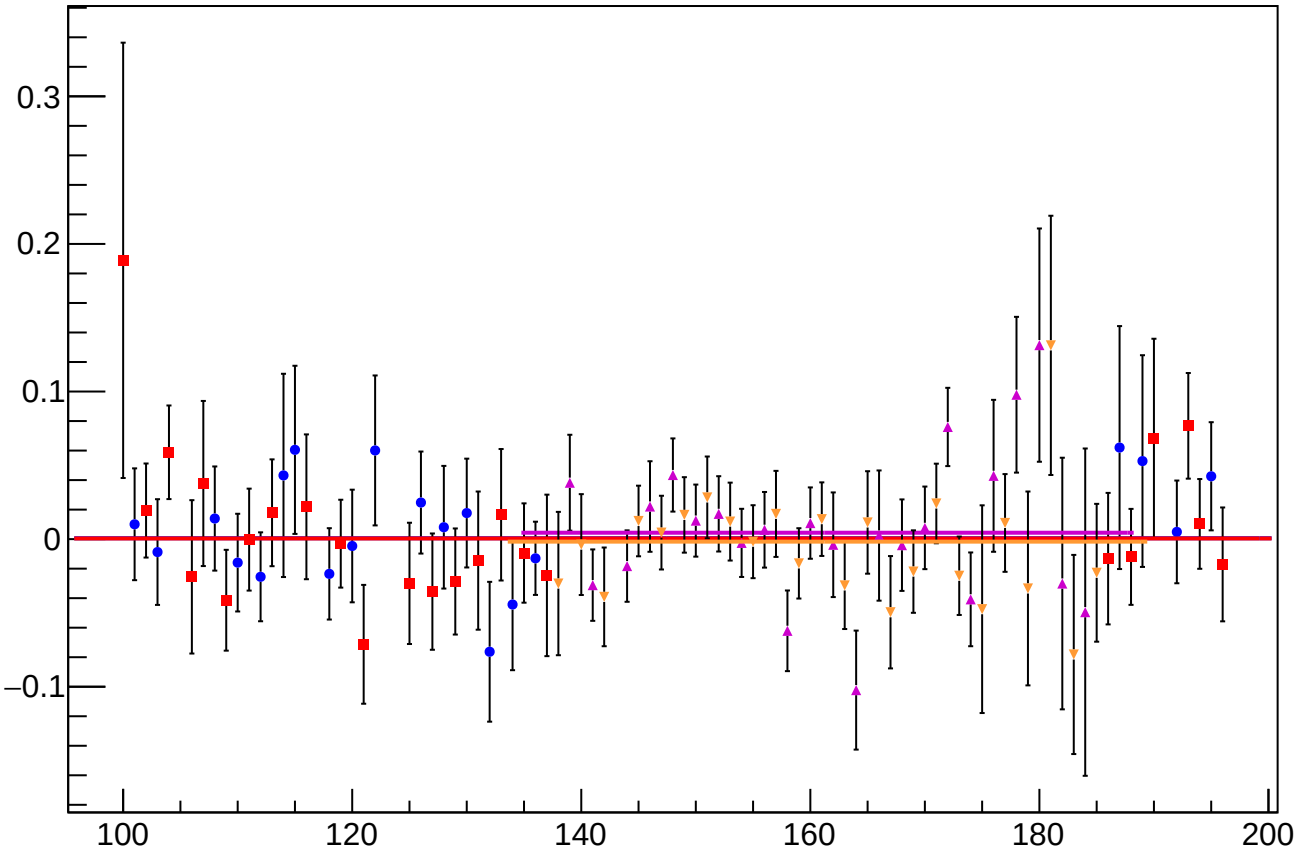
Left: 0.002+/-0.000 $\chi^2$/NDF: 11308615.1/46

Right: 0.001+/-0.000 $\chi^2$/NDF: 18017933.7/43

In: 0.002+/-0.000 $\chi^2$/NDF:12096010.9/42

Out: 0.002+/-0.000 $\chi^2$/NDF:19993626.6/47

All: 0.002+/-0.000 $\chi^2$/NDF: 32845168.6/90




Right In: 0.001+/-0.009 $\chi^2$/NDF: 11.9/19

Left Out: -0.002+/-0.006 $\chi^2$/NDF:14.6/23

Right Out: 0.000+/-0.008 $\chi^2$/NDF: 19.9/23

Left In: 0.004+/-0.006 $\chi^2$/NDF:36.5/22

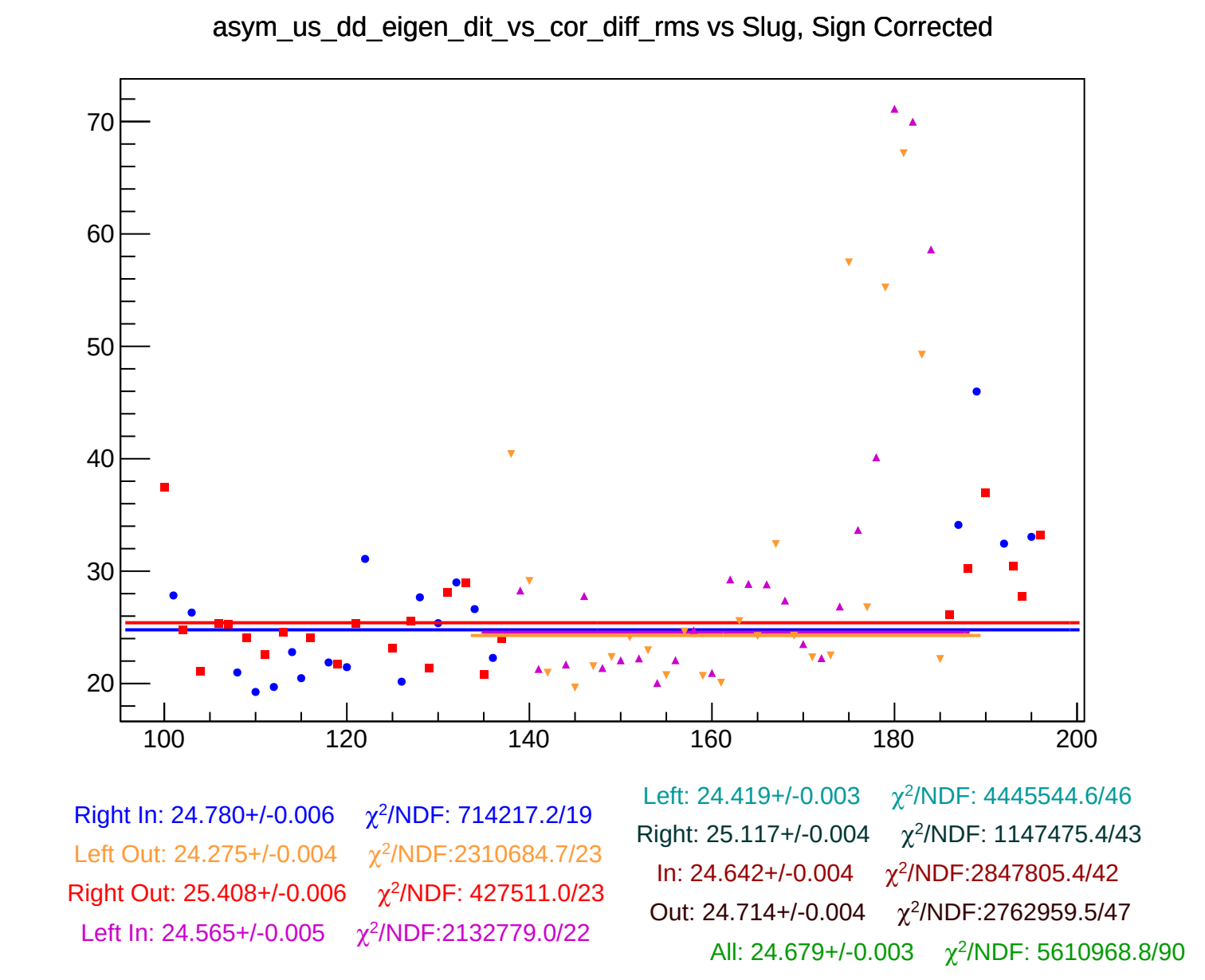
Left: 0.001+/-0.005 $\chi^2$/NDF: 51.6/46

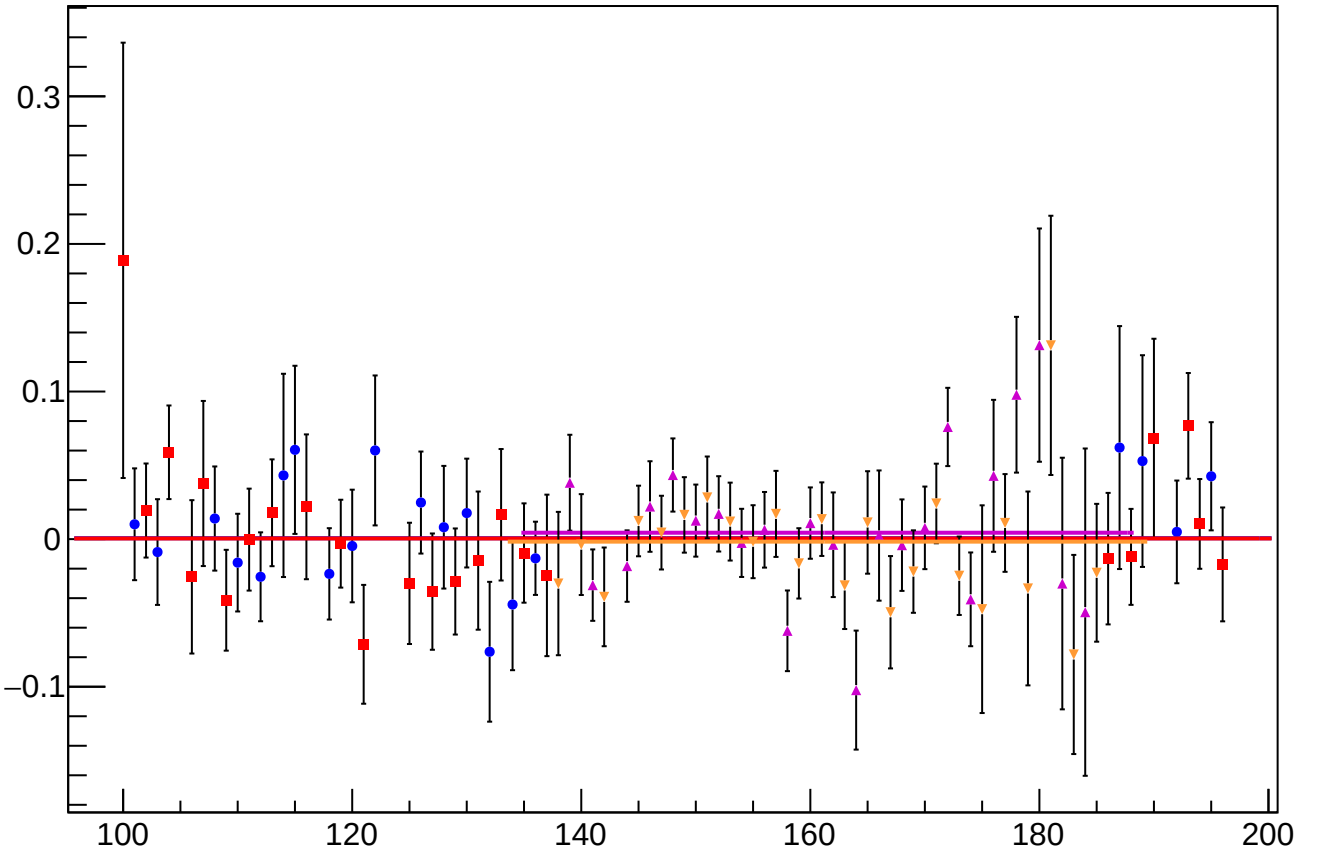
Right: 0.001+/-0.006 $\chi^2$/NDF: 31.7/43

In: 0.003+/-0.005 $\chi^2$/NDF:48.5/42

Out: -0.001+/-0.005 $\chi^2$/NDF:34.5/47

All: 0.001+/-0.004 $\chi^2$/NDF: 83.3/90


asym_us_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected
70
60
50
40
30
20
100
120
140
160
180
200
Right In: 24.780+/-0.006 χ²/NDF: 714217.2/19
Left Out: 24.275+/-0.004 χ²/NDF:2310684.7/23
Right Out: 25.408+/-0.006 χ²/NDF: 427511.0/23
Left In: 24.565+/-0.005 χ²/NDF:2132779.0/22
Left: 24.419+/-0.003 χ²/NDF: 4445544.6/46
Right: 25.117+/-0.004 χ²/NDF: 1147475.4/43
In: 24.642+/-0.004 χ²/NDF:2847805.4/42
Out: 24.714+/-0.004 χ²/NDF:2762959.5/47
All: 24.679+/-0.003 χ²/NDF: 5610968.8/90




Right In: 0.001+/-0.009 $\chi^2$/NDF: 11.9/19

Left Out: -0.002+/-0.006 $\chi^2$/NDF:14.6/23

Right Out: 0.000+/-0.008 $\chi^2$/NDF: 19.9/23

Left In: 0.004+/-0.006 $\chi^2$/NDF:36.5/22

Left: 0.001+/-0.005 $\chi^2$/NDF: 51.6/46

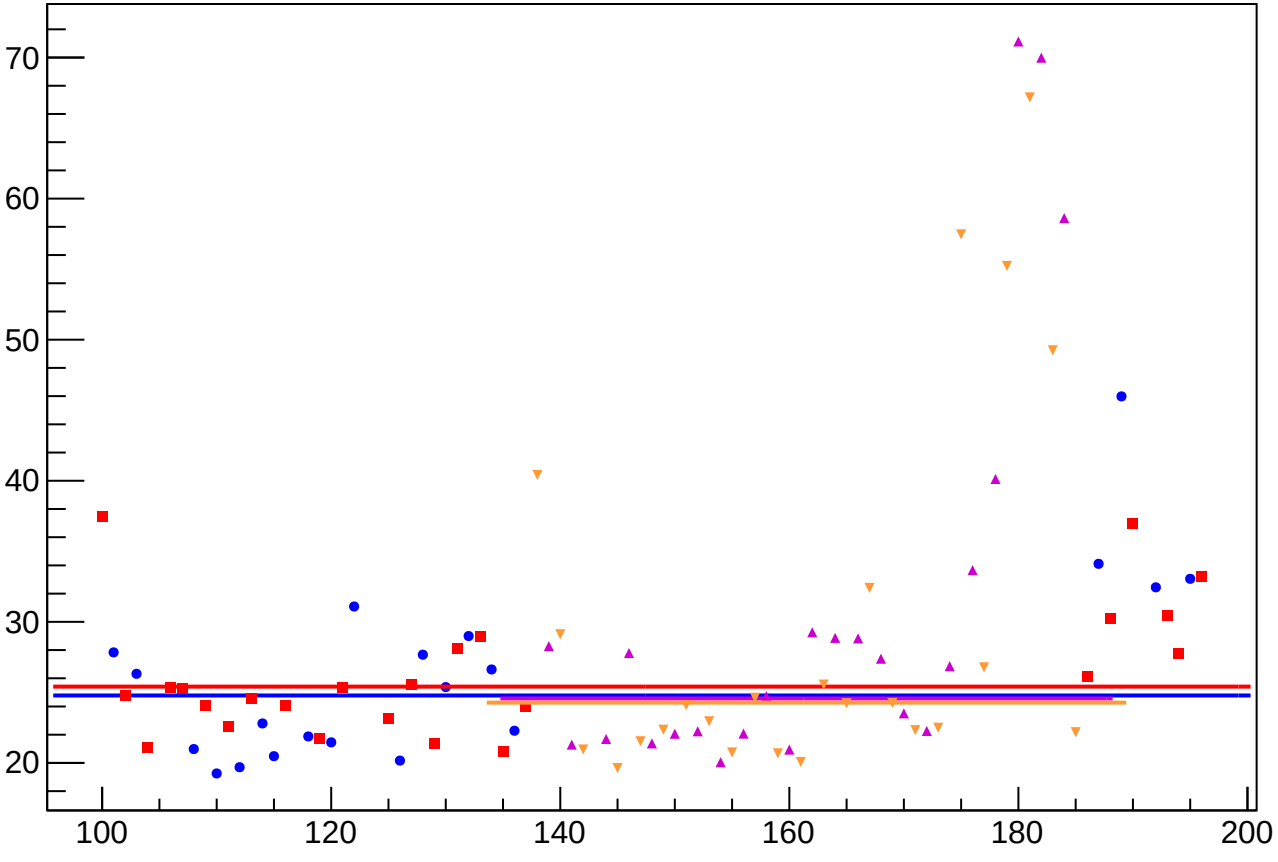
Right: 0.001+/-0.006 $\chi^2$/NDF: 31.7/43

In: 0.003+/-0.005 $\chi^2$/NDF:48.5/42

Out: -0.001+/-0.005 $\chi^2$/NDF:34.5/47

All: 0.001+/-0.004 $\chi^2$/NDF: 83.3/90

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 24.780+/-0.006 $\chi^2$/NDF: 714217.2/19

Left Out: 24.275+/-0.004 $\chi^2$/NDF:2310684.7/23

Right Out: 25.408+/-0.006 $\chi^2$/NDF: 427511.0/23

Left In: 24.565+/-0.005 $\chi^2$/NDF:2132779.0/22

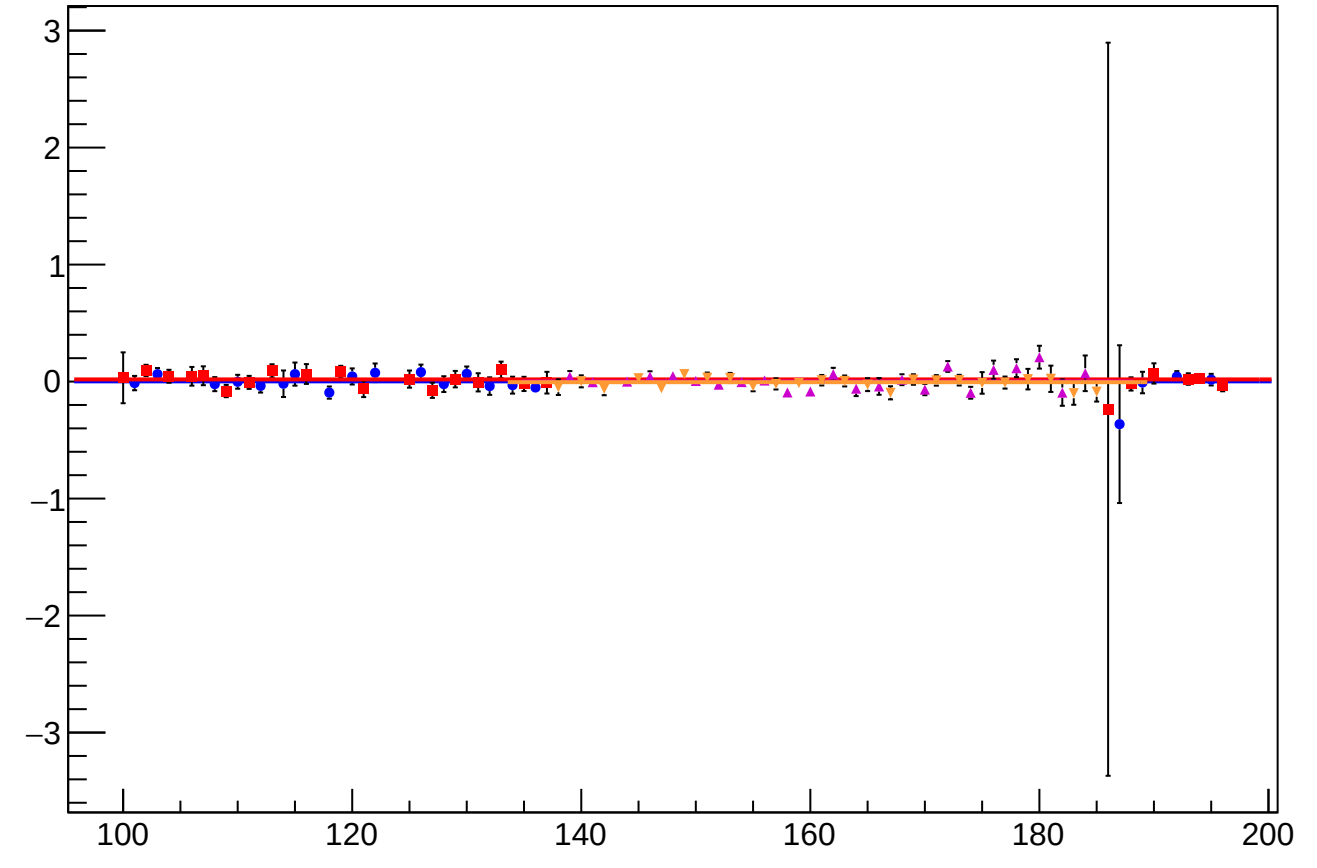
Left: 24.419+/-0.003 $\chi^2$/NDF: 4445544.6/46

Right: 25.117+/-0.004 $\chi^2$/NDF: 1147475.4/43

In: 24.642+/-0.004 $\chi^2$/NDF:2847805.4/42

Out: 24.714+/-0.004 $\chi^2$/NDF:2762959.5/47

All: 24.679+/-0.003 $\chi^2$/NDF: 5610968.8/90




Right In: 0.002+/-0.014 $\chi^2$/NDF: 12.9/19

Left Out: -0.005+/-0.010 $\chi^2$/NDF:13.9/23

Right Out: 0.018+/-0.013 $\chi^2$/NDF: 17.3/23

Left In: 0.000+/-0.010 $\chi^2$/NDF:37.9/22

Left: -0.002+/-0.007 $\chi^2$/NDF: 51.9/46

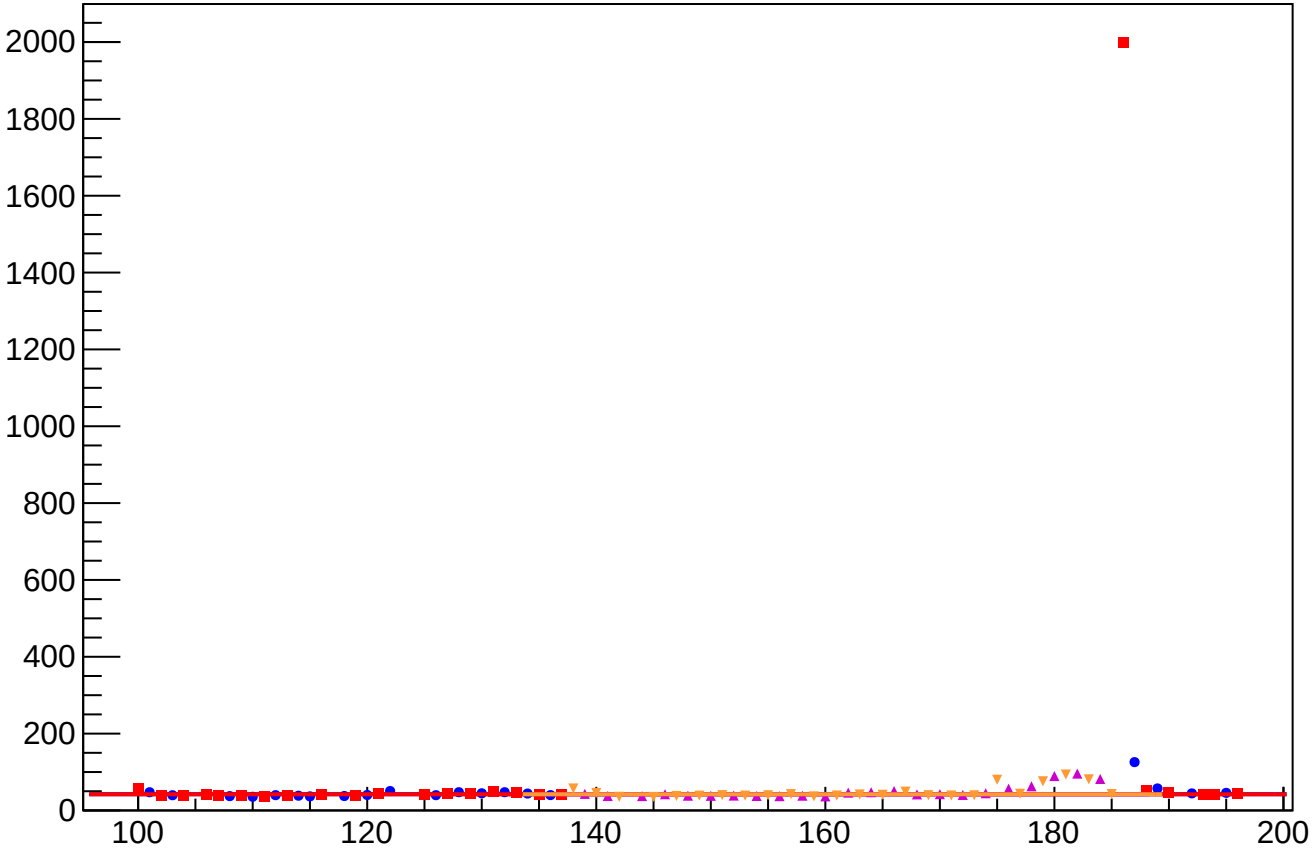
Right: 0.011+/-0.010 $\chi^2$/NDF: 31.0/43

In: 0.001+/-0.008 $\chi^2$/NDF:50.9/42

Out: 0.004+/-0.008 $\chi^2$/NDF:33.2/47

All: 0.003+/-0.006 $\chi^2$/NDF: 84.2/90

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.318+/-0.010 $\chi^2$/NDF: 242455.0/19

Left Out: 42.088+/-0.007 $\chi^2$/NDF:1716037.6/23

Right Out: 42.069+/-0.009 $\chi^2$/NDF: 956541.6/23

Left In: 42.078+/-0.007 $\chi^2$/NDF:1543481.3/22

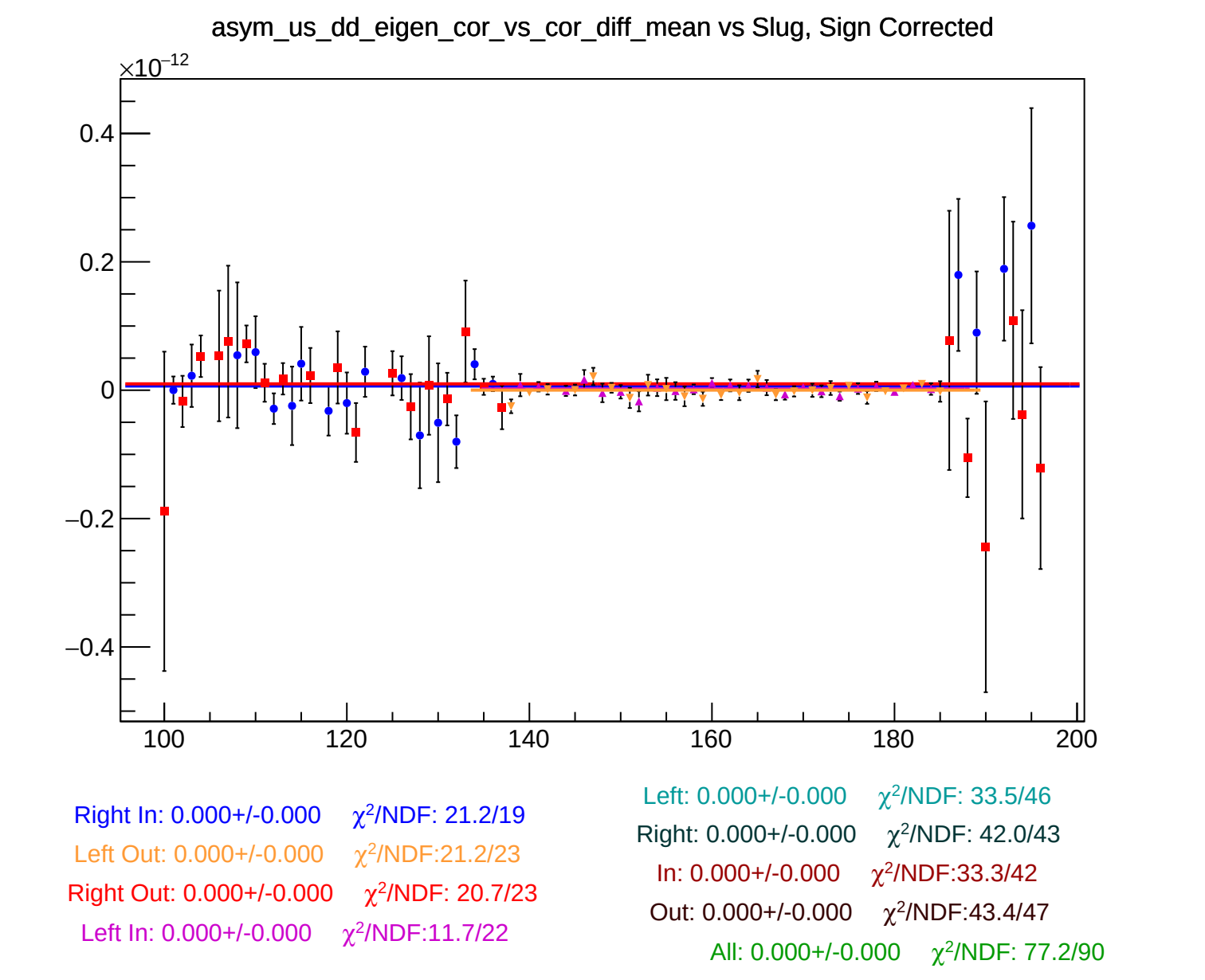
Left: 42.083+/-0.005 $\chi^2$/NDF: 3259520.0/46

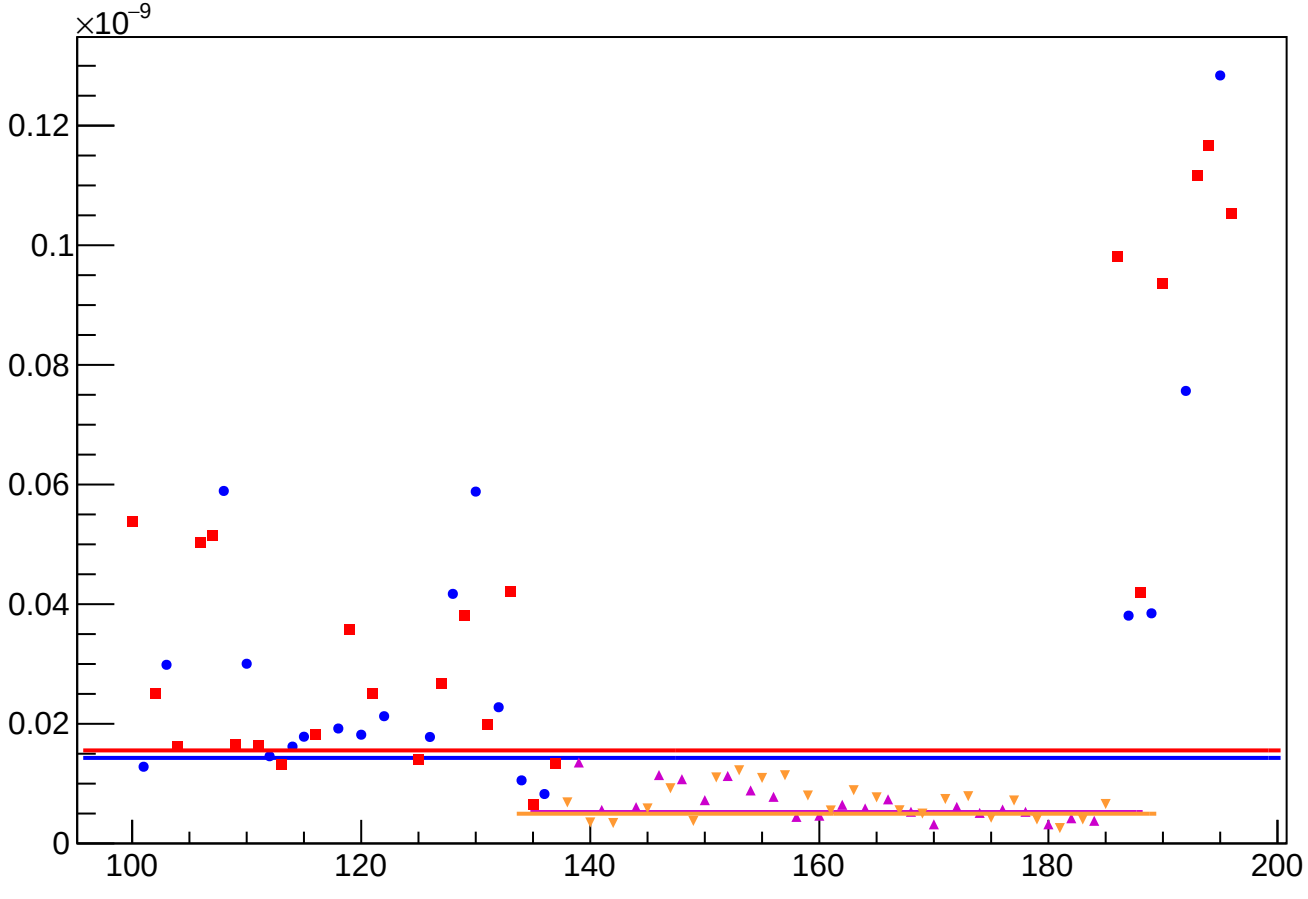
Right: 42.183+/-0.007 $\chi^2$/NDF: 1199334.7/43

In: 42.163+/-0.006 $\chi^2$/NDF:1786312.2/42

Out: 42.081+/-0.006 $\chi^2$/NDF:2672581.9/47

All: 42.120+/-0.004 $\chi^2$/NDF: 4458992.5/90


asym_us_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.4
0.2
0
−0.2
−0.4
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 21.2/19
Left Out: 0.000+/-0.000 χ²/NDF:21.2/23
Right Out: 0.000+/-0.000 χ²/NDF: 20.7/23
Left In: 0.000+/-0.000 χ²/NDF:11.7/22
Left: 0.000+/-0.000 χ²/NDF: 33.5/46
Right: 0.000+/-0.000 χ²/NDF: 42.0/43
In: 0.000+/-0.000 χ²/NDF:33.3/42
Out: 0.000+/-0.000 χ²/NDF:43.4/47
All: 0.000+/-0.000 χ²/NDF: 77.2/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3792197.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3536964.4/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5684332.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2618852.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 6182698.7/46

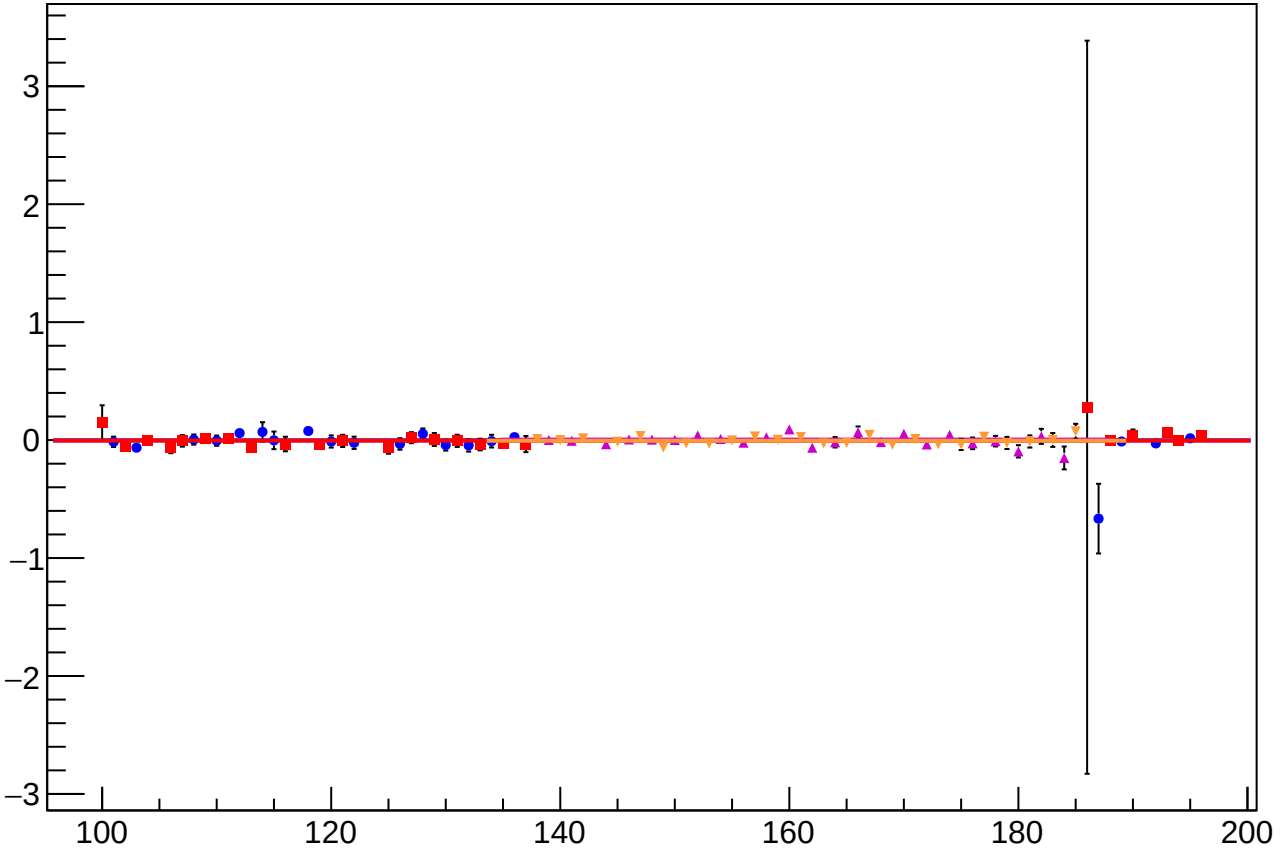
Right: 0.000+/-0.000 $\chi^2$/NDF: 9504339.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:9305887.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12837698.2/47

All: 0.000+/-0.000 $\chi^2$/NDF: 22172791.4/90

asym_us_dd_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.009 $\chi^2$/NDF: 21.9/19

Left Out: -0.005+/-0.007 $\chi^2$/NDF:16.7/23

Right Out: -0.004+/-0.008 $\chi^2$/NDF: 20.9/23

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.2/22

Left: -0.001+/-0.005 $\chi^2$/NDF: 48.8/46

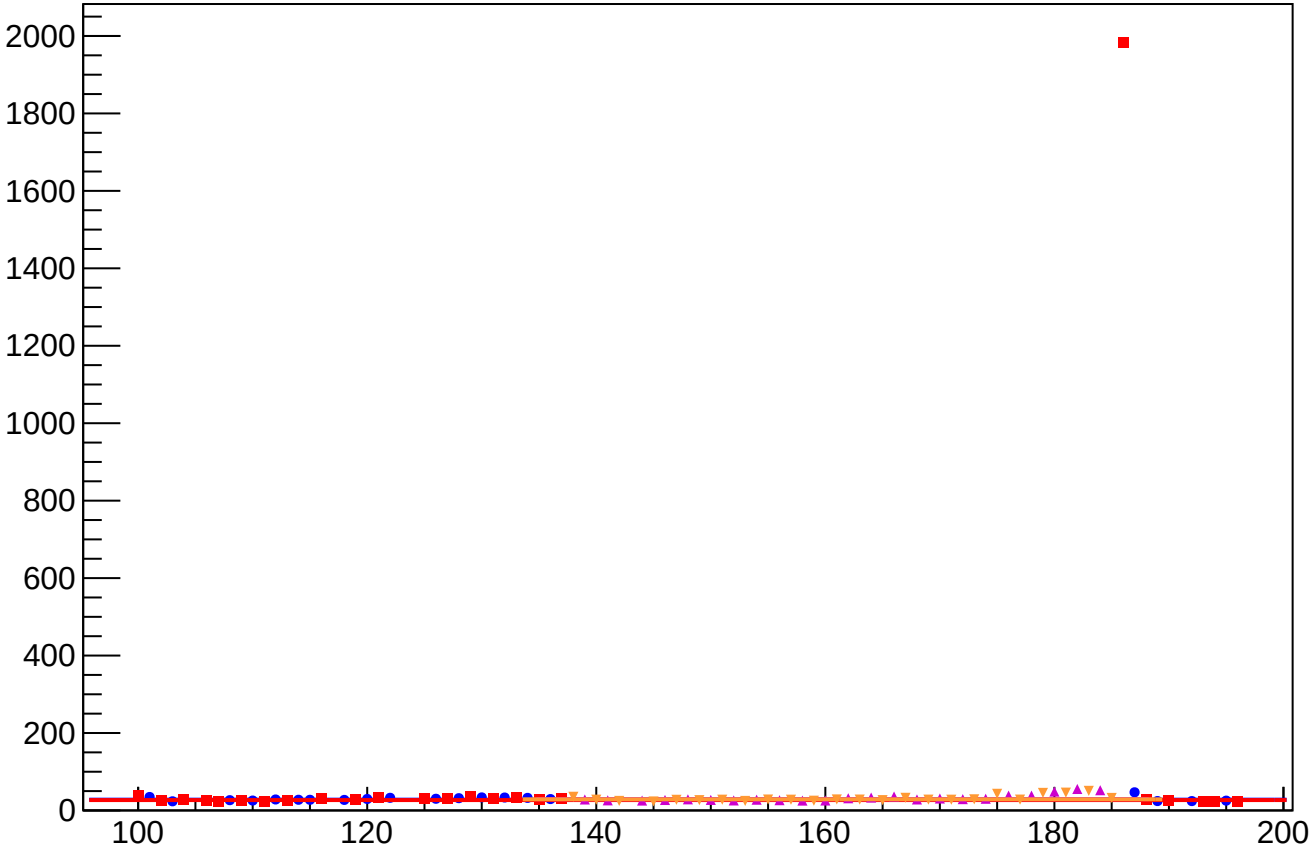
Right: -0.003+/-0.006 $\chi^2$/NDF: 42.8/43

In: 0.002+/-0.006 $\chi^2$/NDF:53.4/42

Out: -0.005+/-0.005 $\chi^2$/NDF:37.6/47

All: -0.002+/-0.004 $\chi^2$/NDF: 91.7/90

asym_us_dd_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.809+/-0.007 $\chi^2$/NDF: 284366.6/19

Left Out: 28.781+/-0.005 $\chi^2$/NDF:1170605.8/23

Right Out: 26.827+/-0.006 $\chi^2$/NDF: 1078359.9/23

Left In: 29.255+/-0.005 $\chi^2$/NDF:1140337.0/22

Left: 29.014+/-0.004 $\chi^2$/NDF: 2315363.1/46

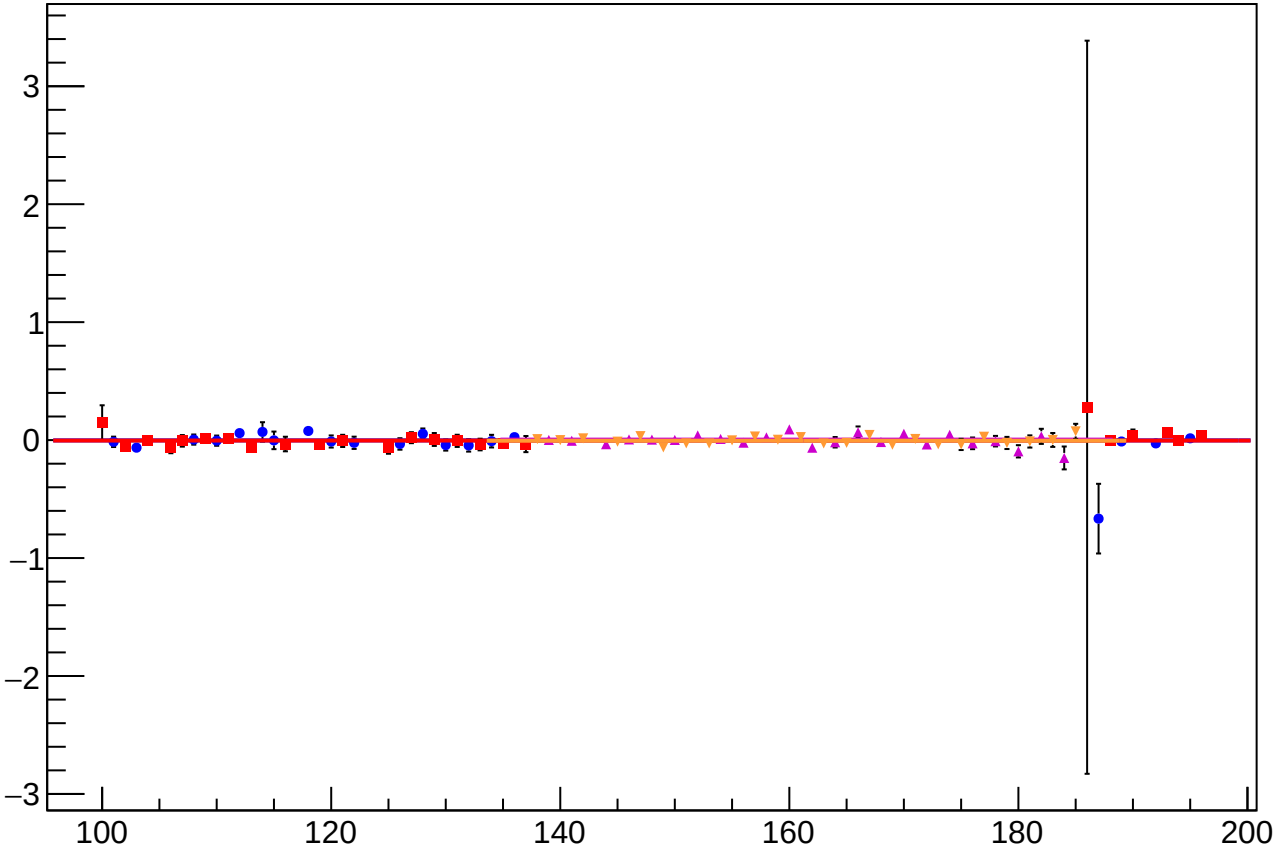
Right: 27.268+/-0.004 $\chi^2$/NDF: 1374842.3/43

In: 28.720+/-0.004 $\chi^2$/NDF:1454715.0/42

Out: 27.979+/-0.004 $\chi^2$/NDF:2311928.7/47

All: 28.331+/-0.003 $\chi^2$/NDF: 3784405.4/90

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.002+/-0.009 $\chi^2$/NDF: 21.9/19

Left Out: -0.005+/-0.007 $\chi^2$/NDF:16.7/23

Right Out: -0.004+/-0.008 $\chi^2$/NDF: 20.9/23

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.2/22

Left: -0.001+/-0.005 $\chi^2$/NDF: 48.8/46

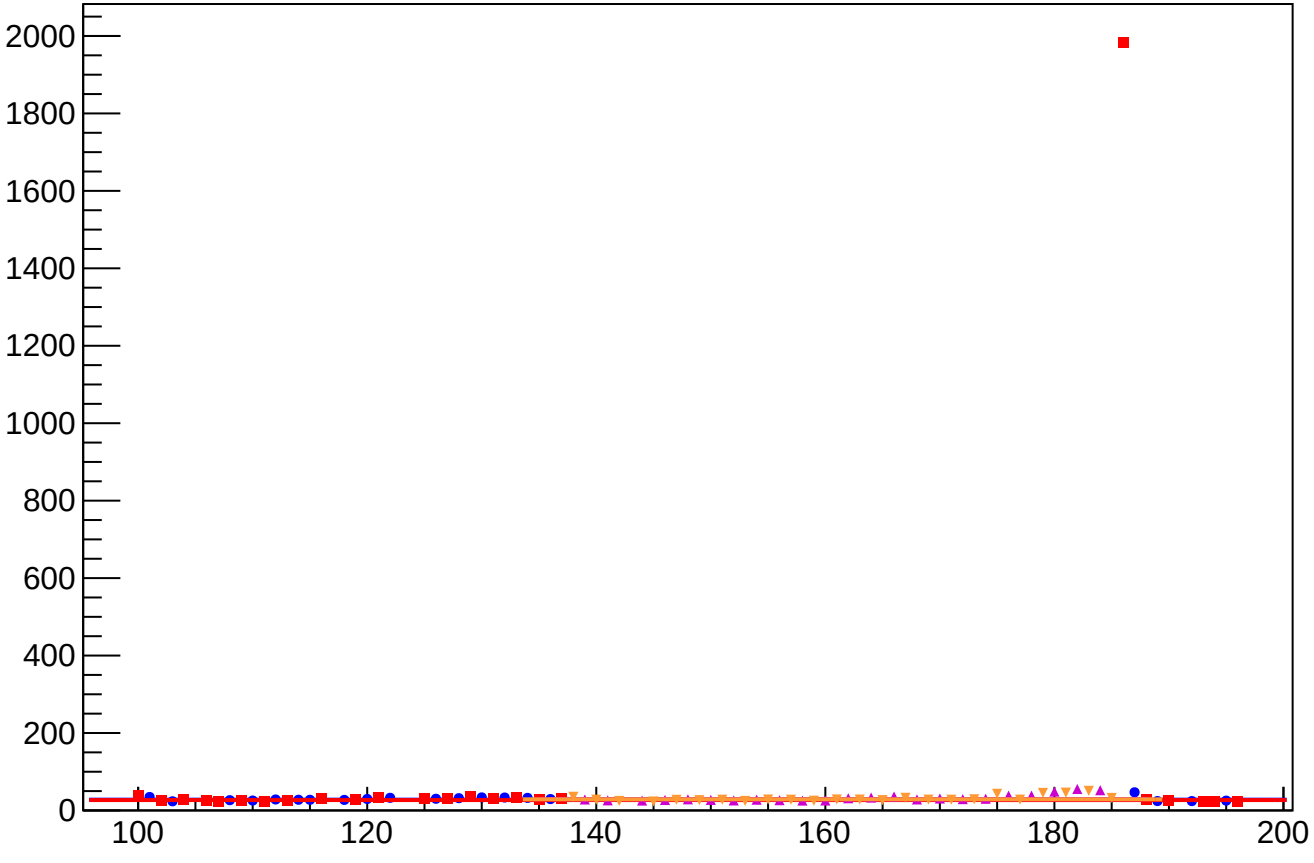
Right: -0.003+/-0.006 $\chi^2$/NDF: 42.8/43

In: 0.002+/-0.006 $\chi^2$/NDF:53.4/42

Out: -0.005+/-0.005 $\chi^2$/NDF:37.6/47

All: -0.002+/-0.004 $\chi^2$/NDF: 91.7/90

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.809+/-0.007 $\chi^2$/NDF: 284366.6/19

Left Out: 28.781+/-0.005 $\chi^2$/NDF:1170605.8/23

Right Out: 26.827+/-0.006 $\chi^2$/NDF: 1078359.9/23

Left In: 29.255+/-0.005 $\chi^2$/NDF:1140337.0/22

Left: 29.014+/-0.004 $\chi^2$/NDF: 2315363.1/46

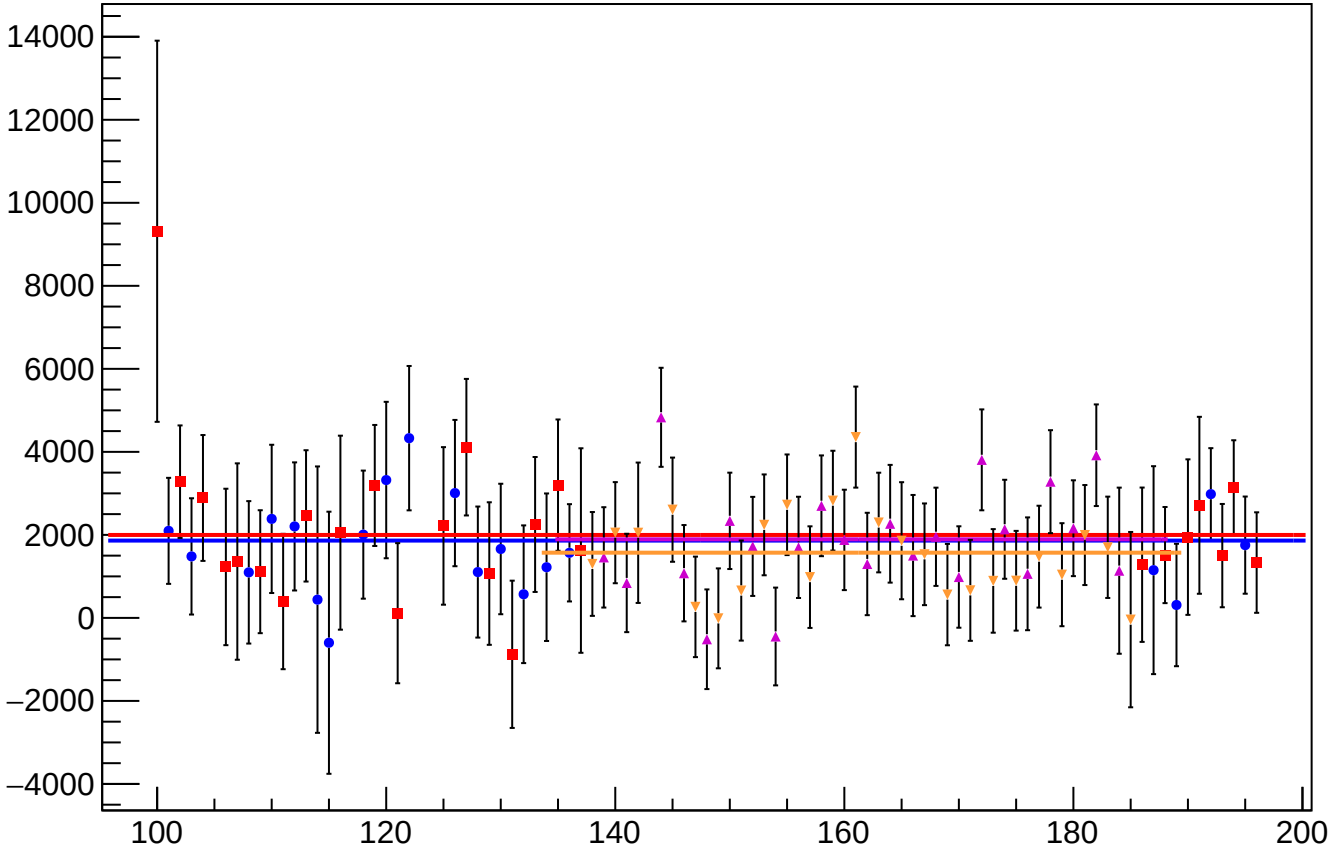
Right: 27.268+/-0.004 $\chi^2$/NDF: 1374842.3/43

In: 28.720+/-0.004 $\chi^2$/NDF:1454715.0/42

Out: 27.979+/-0.004 $\chi^2$/NDF:2311928.7/47

All: 28.331+/-0.003 $\chi^2$/NDF: 3784405.4/90

# reg_asym_usl_mean vs Slug, Sign Corrected




Right In: 1862.615+/-350.773 $\chi^2$/NDF: 7.6/19

Left Out: 1571.055+/-256.536 $\chi^2$/NDF:15.4/23

Right Out: 1998.301+/-322.510 $\chi^2$/NDF: 14.5/24

Left In: 1893.347+/-258.339 $\chi^2$/NDF:24.1/22

Left: 1731.072+/-182.032 $\chi^2$/NDF: 40.3/46

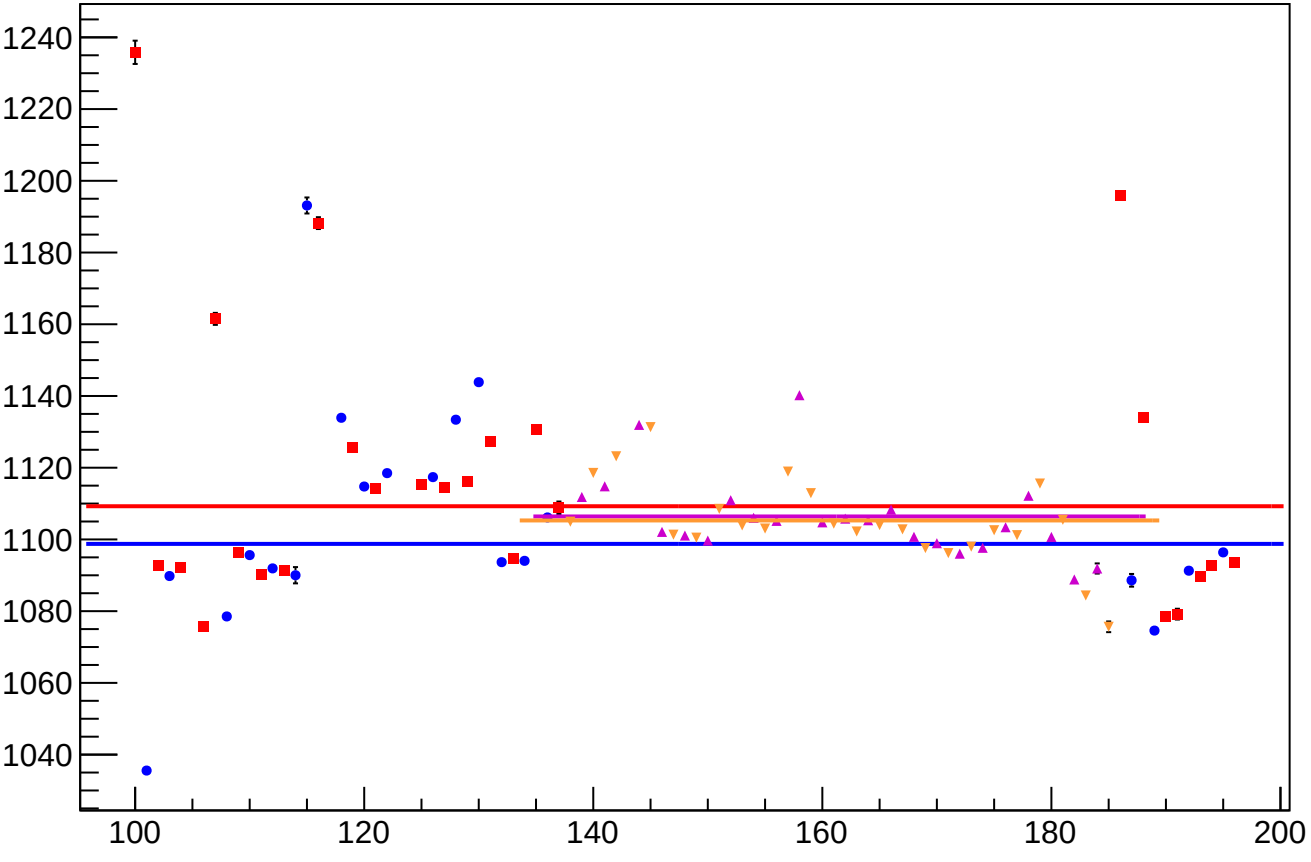
Right: 1936.144+/-237.413 $\chi^2$/NDF: 22.1/44

In: 1882.539+/-208.013 $\chi^2$/NDF:31.7/42

Out: 1736.623+/-200.767 $\chi^2$/NDF:30.9/48

All: 1806.996+/-144.458 $\chi^2$/NDF: 62.8/91

# reg_asym_usl_rms vs Slug, Sign Corrected




Right In: 1098.758+/-0.248 $\chi^2$/NDF: 12160.1/19

Left Out: 1105.294+/-0.181 $\chi^2$/NDF:3161.8/23

Right Out: 1109.257+/-0.228 $\chi^2$/NDF: 15183.0/24

Left In: 1106.405+/-0.183 $\chi^2$/NDF:3776.4/22

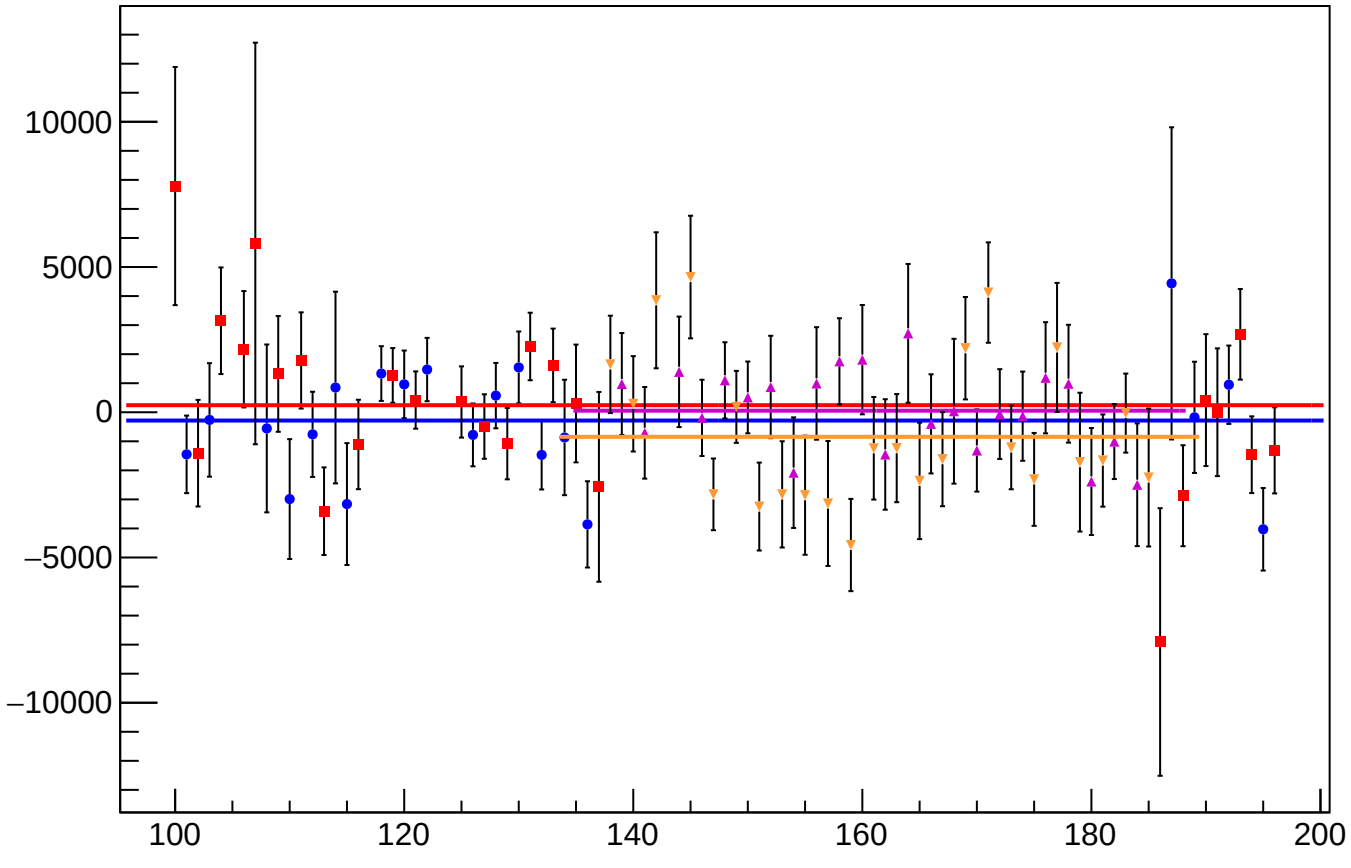
Left: 1105.846+/-0.129 $\chi^2$/NDF: 6956.8/46

Right: 1104.447+/-0.168 $\chi^2$/NDF: 28314.0/44

In: 1103.716+/-0.147 $\chi^2$/NDF:16552.8/42

Out: 1106.830+/-0.142 $\chi^2$/NDF:18529.7/48

All: 1105.328+/-0.102 $\chi^2$/NDF: 35314.5/91




Right In: -284.854+/-320.544 $\chi^2$/NDF: 29.7/19

Left Out: -844.649+/-347.346 $\chi^2$/NDF:44.2/23

Right Out: 243.322+/-306.897 $\chi^2$/NDF: 35.4/24

Left In: 54.347+/-345.962 $\chi^2$/NDF:13.0/22

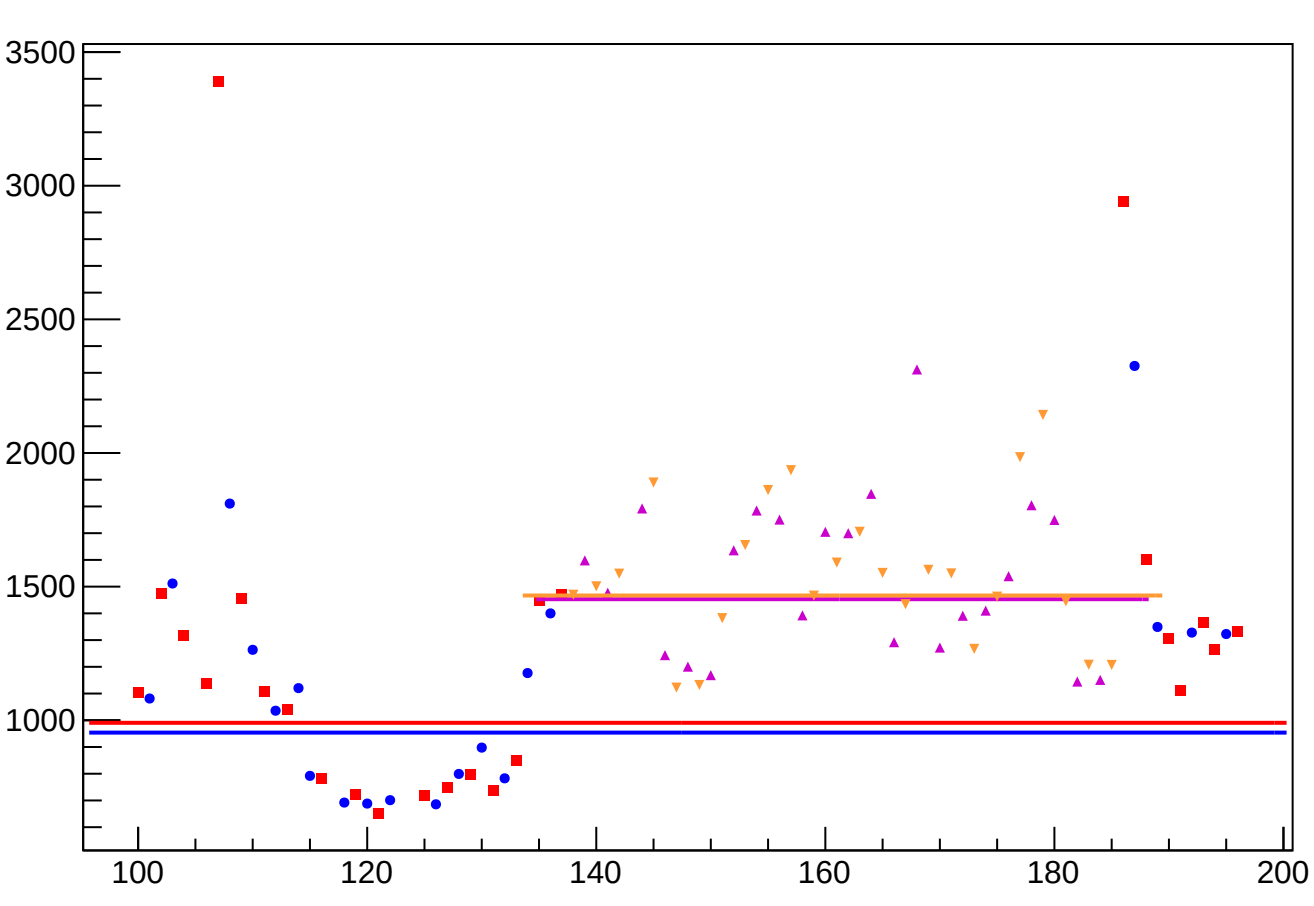
Left: -393.356+/-245.120 $\chi^2$/NDF: 60.6/46

Right: -9.284+/-221.676 $\chi^2$/NDF: 66.5/44

In: -128.171+/-235.132 $\chi^2$/NDF:43.2/42

Out: -233.654+/-229.987 $\chi^2$/NDF:85.1/48

All: -182.079+/-164.414 $\chi^2$/NDF: 128.4/91




Right In: 953.842+/-0.227 $\chi^2$/NDF: 1707702.5/19

Left Out: 1466.846+/-0.246 $\chi^2$/NDF:1043303.8/23

Right Out: 990.511+/-0.217 $\chi^2$/NDF: 2476505.4/24

Left In: 1452.983+/-0.245 $\chi^2$/NDF:1129567.2/22

Left: 1459.887+/-0.173 $\chi^2$/NDF: 2174470.2/46

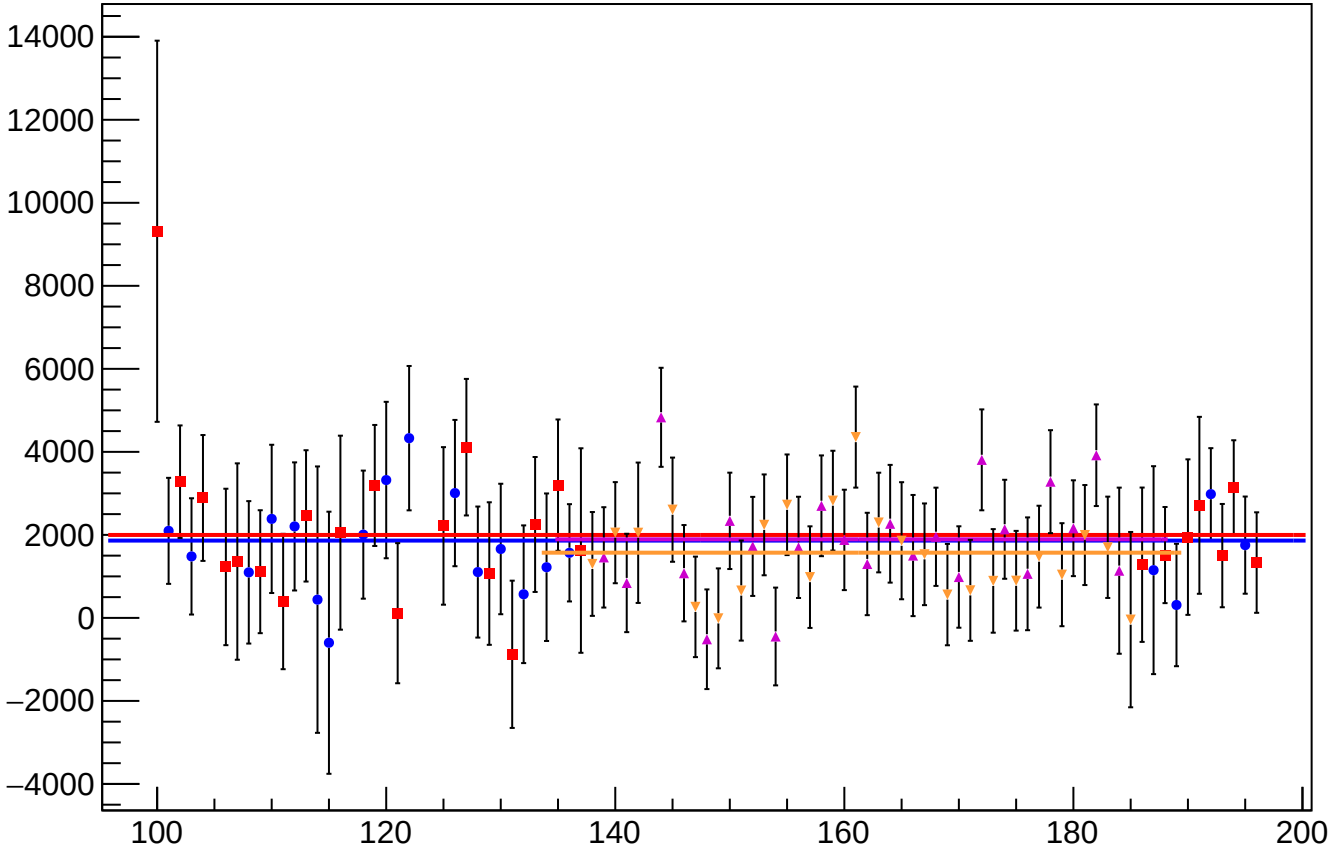
Right: 972.974+/-0.157 $\chi^2$/NDF: 4197863.7/44

In: 1184.404+/-0.166 $\chi^2$/NDF:5077369.6/42

Out: 1199.341+/-0.163 $\chi^2$/NDF:5632075.5/48

All: 1192.038+/-0.116 $\chi^2$/NDF: 10713569.7/9

# cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1862.615+/-350.773 $\chi^2$/NDF: 7.6/19

Left Out: 1571.055+/-256.536 $\chi^2$/NDF:15.4/23

Right Out: 1998.289+/-322.510 $\chi^2$/NDF: 14.5/24

Left In: 1893.347+/-258.339 $\chi^2$/NDF:24.1/22

Left: 1731.072+/-182.032 $\chi^2$/NDF: 40.3/46

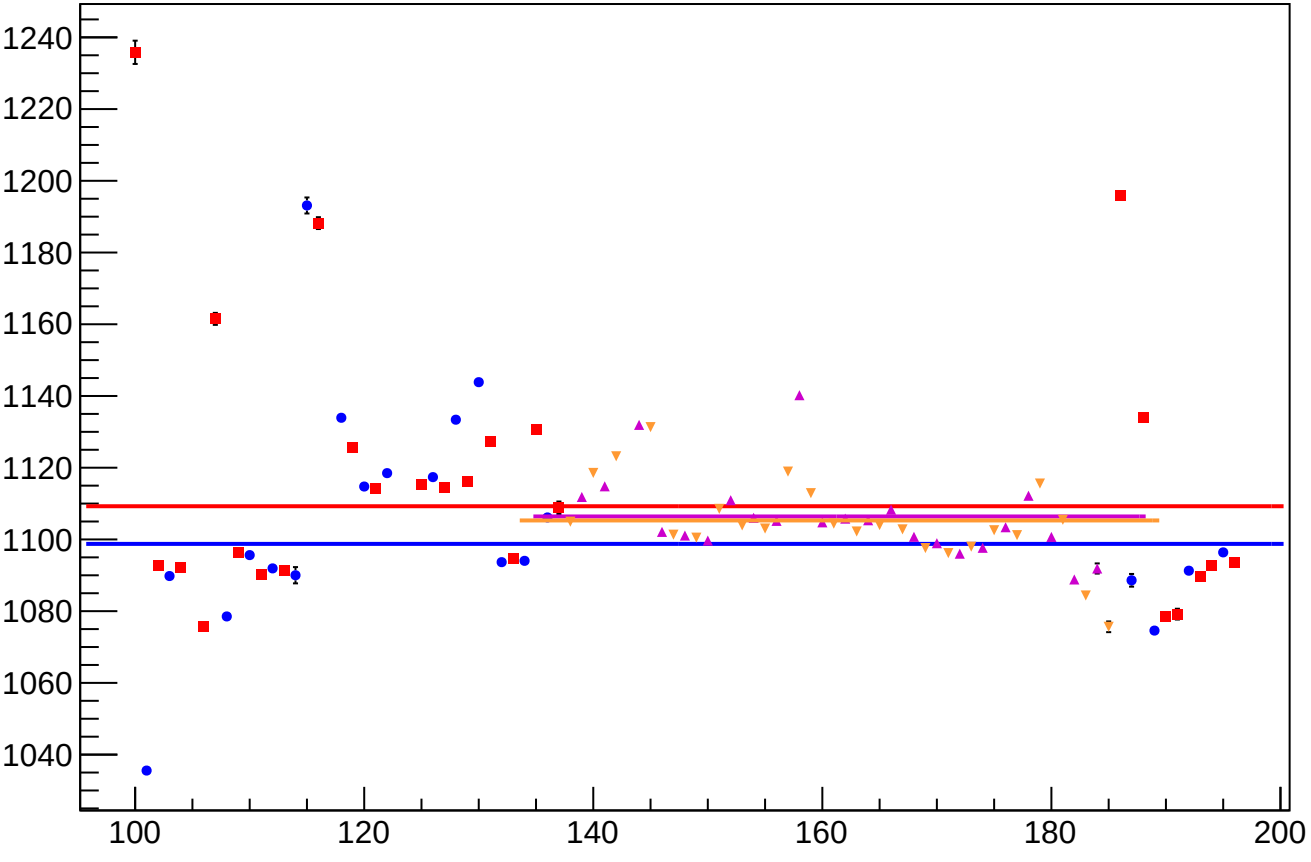
Right: 1936.137+/-237.413 $\chi^2$/NDF: 22.1/44

In: 1882.539+/-208.013 $\chi^2$/NDF:31.7/42

Out: 1736.618+/-200.767 $\chi^2$/NDF:30.9/48

All: 1806.993+/-144.458 $\chi^2$/NDF: 62.8/91

# cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1098.758+/-0.248 $\chi^2$/NDF: 12160.1/19

Left Out: 1105.294+/-0.181 $\chi^2$/NDF:3161.8/23

Right Out: 1109.257+/-0.228 $\chi^2$/NDF: 15183.0/24

Left In: 1106.405+/-0.183 $\chi^2$/NDF:3776.4/22

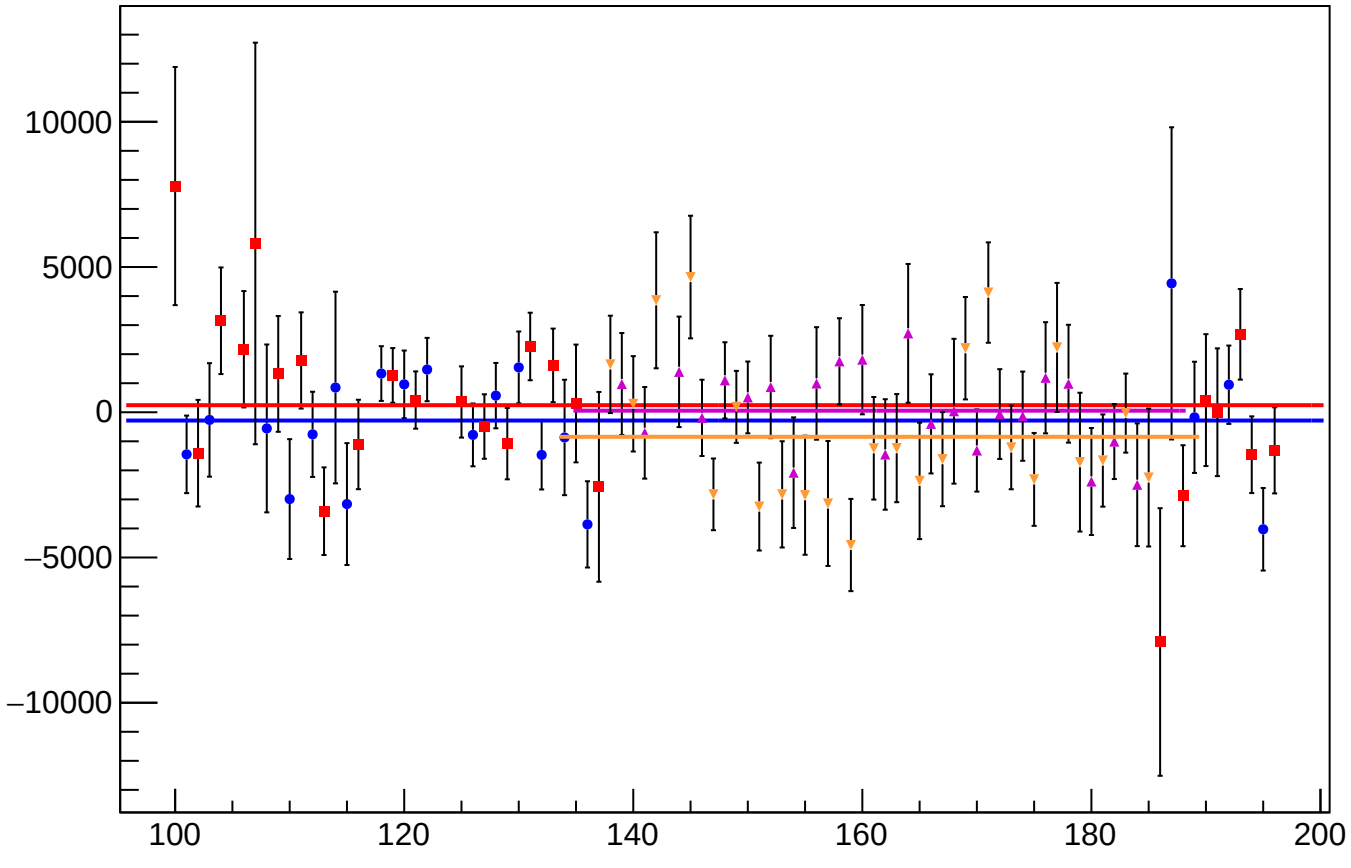
Left: 1105.846+/-0.129 $\chi^2$/NDF: 6956.8/46

Right: 1104.447+/-0.168 $\chi^2$/NDF: 28314.0/44

In: 1103.716+/-0.147 $\chi^2$/NDF:16552.8/42

Out: 1106.830+/-0.142 $\chi^2$/NDF:18529.7/48

All: 1105.328+/-0.102 $\chi^2$/NDF: 35314.5/91




Right In: -284.854+/-320.544 $\chi^2$/NDF: 29.7/19

Left Out: -844.649+/-347.346 $\chi^2$/NDF:44.2/23

Right Out: 243.321+/-306.897 $\chi^2$/NDF: 35.4/24

Left In: 54.347+/-345.962 $\chi^2$/NDF:13.0/22

Left: -393.356+/-245.120 $\chi^2$/NDF: 60.6/46

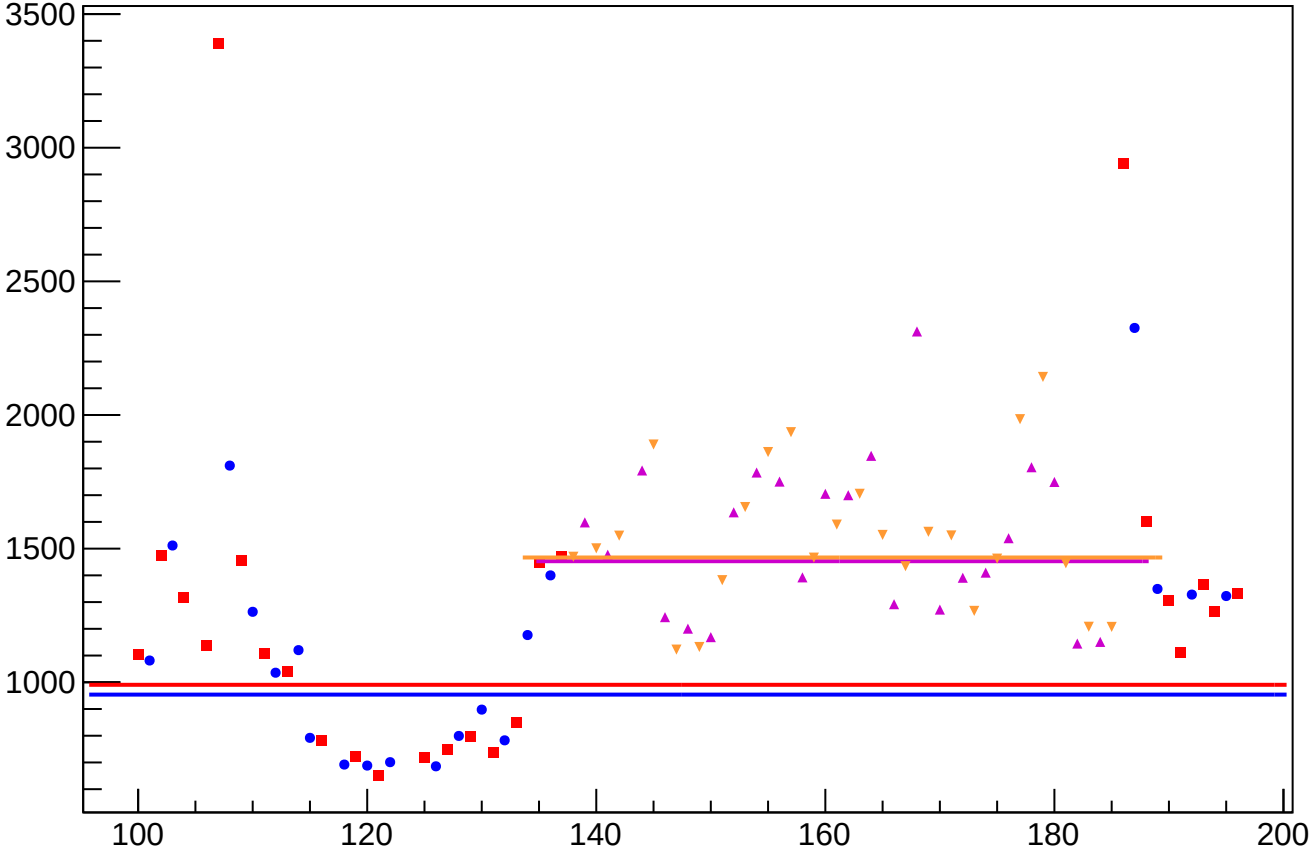
Right: -9.284+/-221.676 $\chi^2$/NDF: 66.5/44

In: -128.171+/-235.132 $\chi^2$/NDF:43.2/42

Out: -233.655+/-229.987 $\chi^2$/NDF:85.1/48

All: -182.079+/-164.414 $\chi^2$/NDF: 128.4/91

# asym_usl_cor_correction_rms vs Slug, Sign Corrected




Right In: 953.842+/-0.227 $\chi^2$/NDF: 1707702.5/19

Left Out: 1466.846+/-0.246 $\chi^2$/NDF:1043303.8/23

Right Out: 990.511+/-0.217 $\chi^2$/NDF: 2476504.3/24

Left In: 1452.983+/-0.245 $\chi^2$/NDF:1129567.2/22

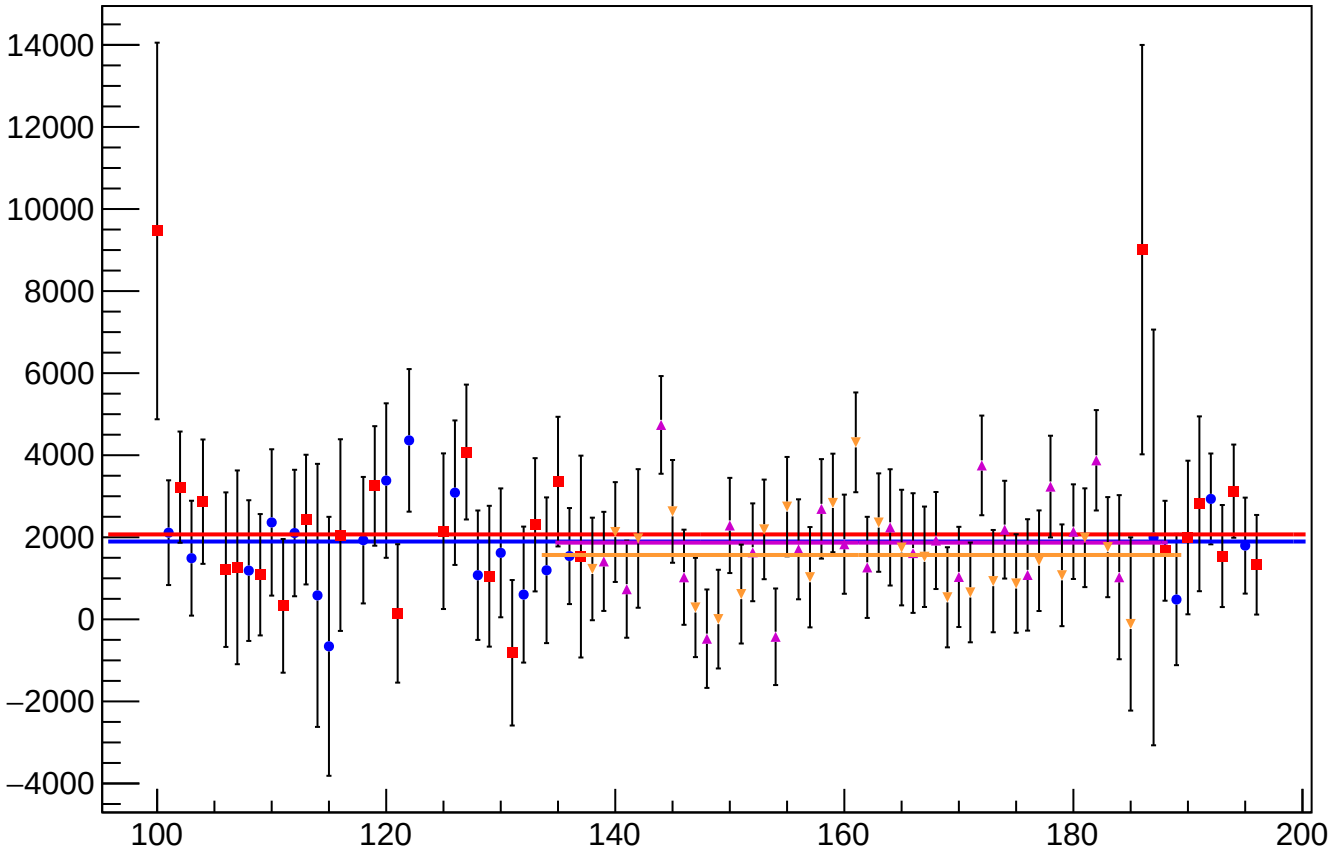
Left: 1459.887+/-0.173 $\chi^2$/NDF: 2174470.2/46

Right: 972.974+/-0.157 $\chi^2$/NDF: 4197862.4/44

In: 1184.404+/-0.166 $\chi^2$/NDF:5077369.6/42

Out: 1199.341+/-0.163 $\chi^2$/NDF:5632076.5/48

All: 1192.038+/-0.116 $\chi^2$/NDF: 10713570.6/9




Right In: 1896.633+/-354.659 $\chi^2$/NDF: 7.1/19

Left Out: 1568.786+/-256.294 $\chi^2$/NDF:15.4/23

Right Out: 2070.123+/-327.863 $\chi^2$/NDF: 16.3/24

Left In: 1869.342+/-258.099 $\chi^2$/NDF:23.4/22

Left: 1718.009+/-181.862 $\chi^2$/NDF: 39.5/46

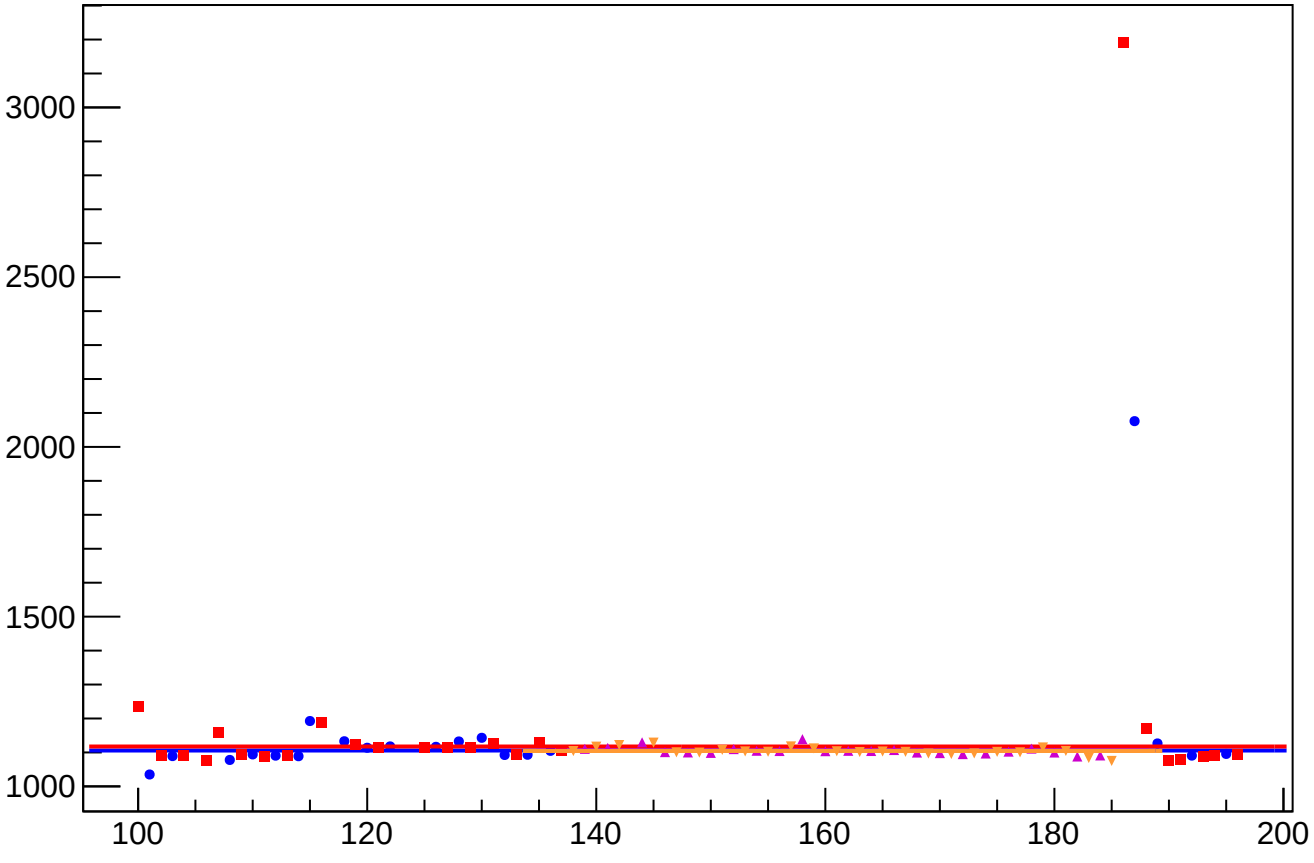
Right: 1990.179+/-240.750 $\chi^2$/NDF: 23.6/44

In: 1878.791+/-208.688 $\chi^2$/NDF:30.5/42

Out: 1758.941+/-201.921 $\chi^2$/NDF:33.2/48

All: 1816.891+/-145.113 $\chi^2$/NDF: 63.9/91

# overload_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1105.669+/-0.251 $\chi^2$/NDF: 85758.1/19

Left Out: 1104.258+/-0.181 $\chi^2$/NDF:2999.2/23

Right Out: 1117.476+/-0.232 $\chi^2$/NDF: 361951.8/24

Left In: 1105.380+/-0.183 $\chi^2$/NDF:3661.0/22

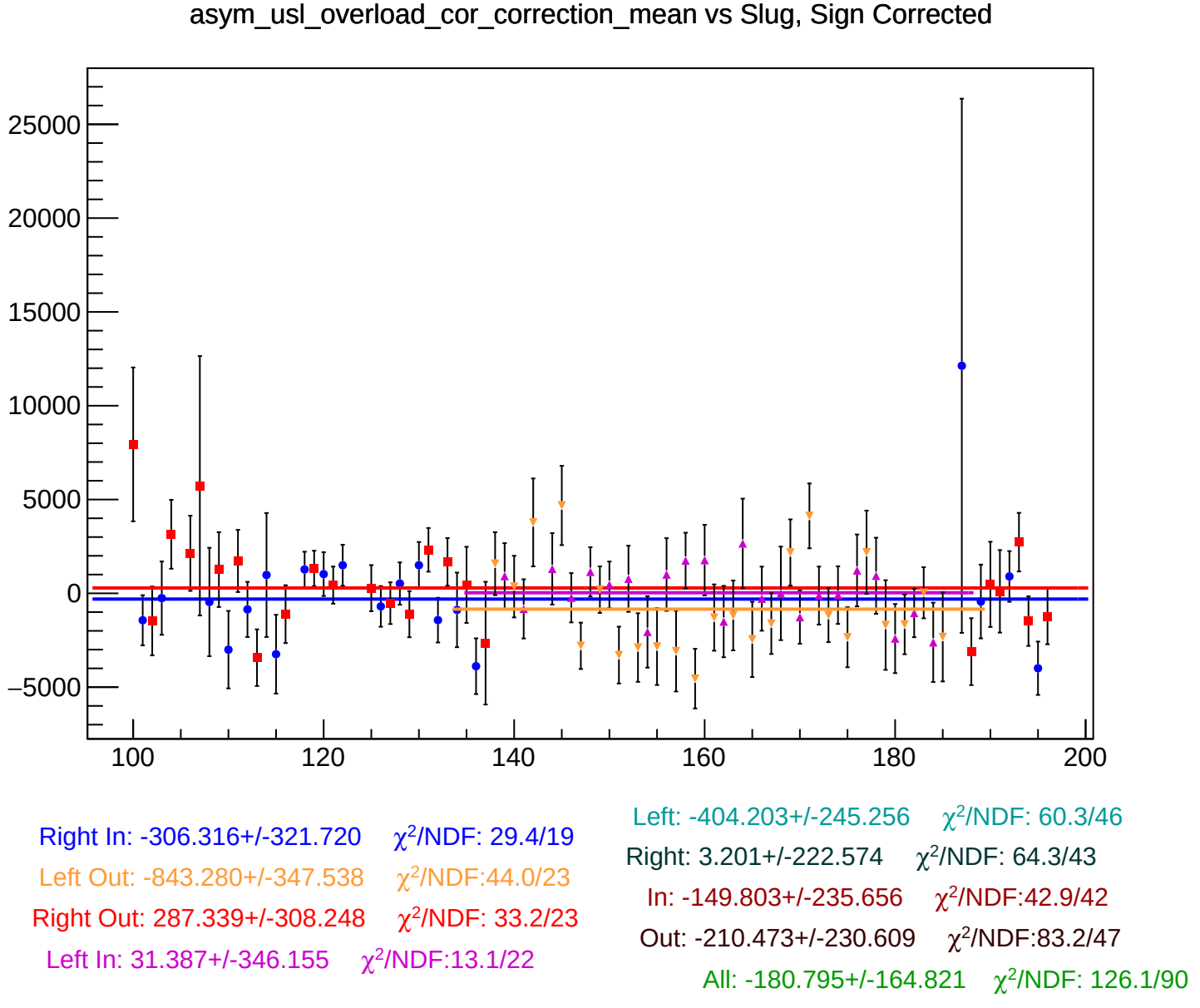
Left: 1104.815+/-0.129 $\chi^2$/NDF: 6679.3/46

Right: 1112.036+/-0.170 $\chi^2$/NDF: 448905.1/44

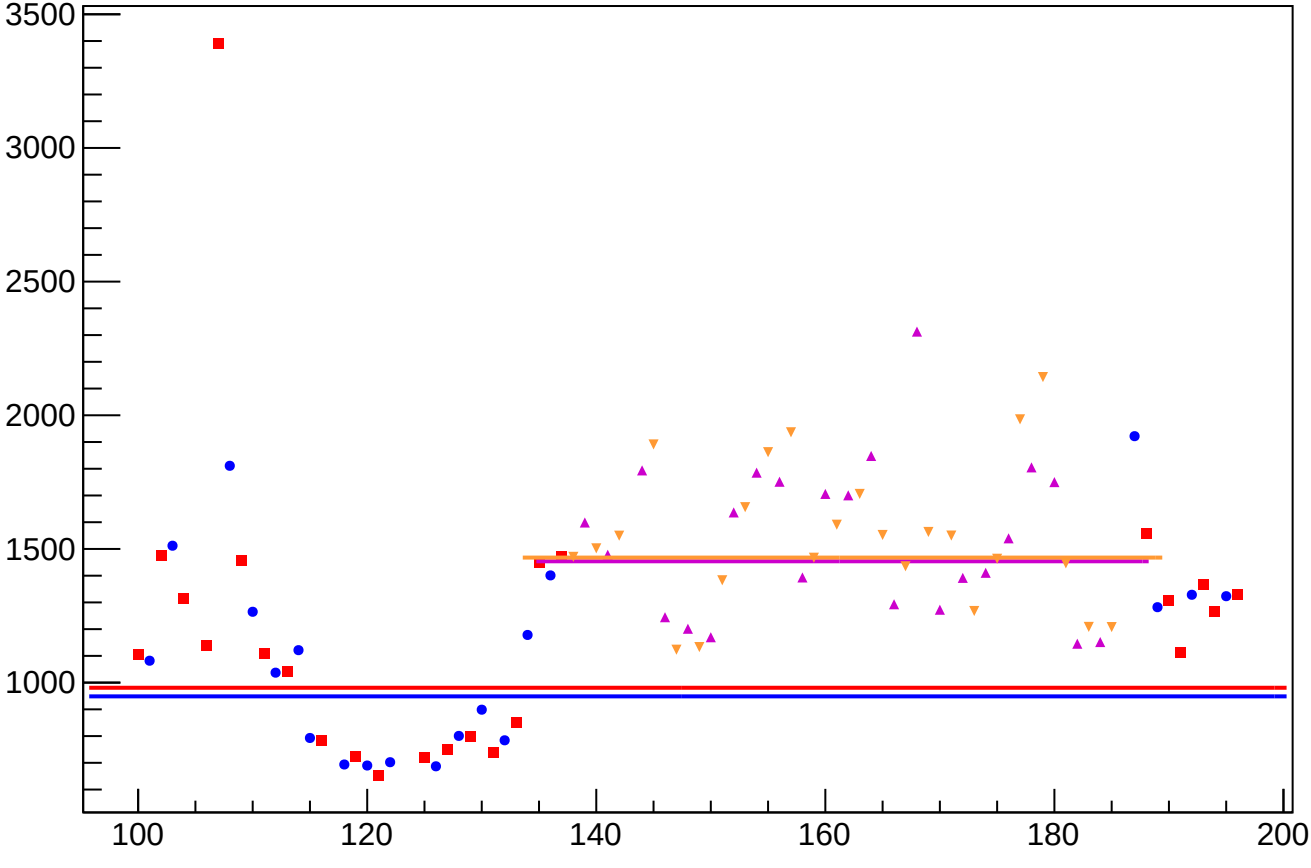
In: 1105.481+/-0.148 $\chi^2$/NDF:89420.1/42

Out: 1109.272+/-0.143 $\chi^2$/NDF:366968.8/48

All: 1107.439+/-0.103 $\chi^2$/NDF: 456729.7/91


asym_usl_overload_cor_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -306.316+/-321.720 χ²/NDF: 29.4/19
Left Out: -843.280+/-347.538 χ²/NDF:44.0/23
Right Out: 287.339+/-308.248 χ²/NDF: 33.2/23
Left In: 31.387+/-346.155 χ²/NDF:13.1/22
Left: -404.203+/-245.256 χ²/NDF: 60.3/46
Right: 3.201+/-222.574 χ²/NDF: 64.3/43
In: -149.803+/-235.656 χ²/NDF:42.9/42
Out: -210.473+/-230.609 χ²/NDF:83.2/47
All: -180.795+/-164.821 χ²/NDF: 126.1/90

asym_usl_overload_cor_correction_rms vs Slug, Sign Corrected




Right In: 948.568+/-0.227 $\chi^2$/NDF: 1549536.6/19

Left Out: 1467.697+/-0.246 $\chi^2$/NDF:1041877.5/23

Right Out: 980.760+/-0.218 $\chi^2$/NDF: 2060951.1/23

Left In: 1453.834+/-0.245 $\chi^2$/NDF:1127997.5/22

Left: 1460.738+/-0.173 $\chi^2$/NDF: 2171472.5/46

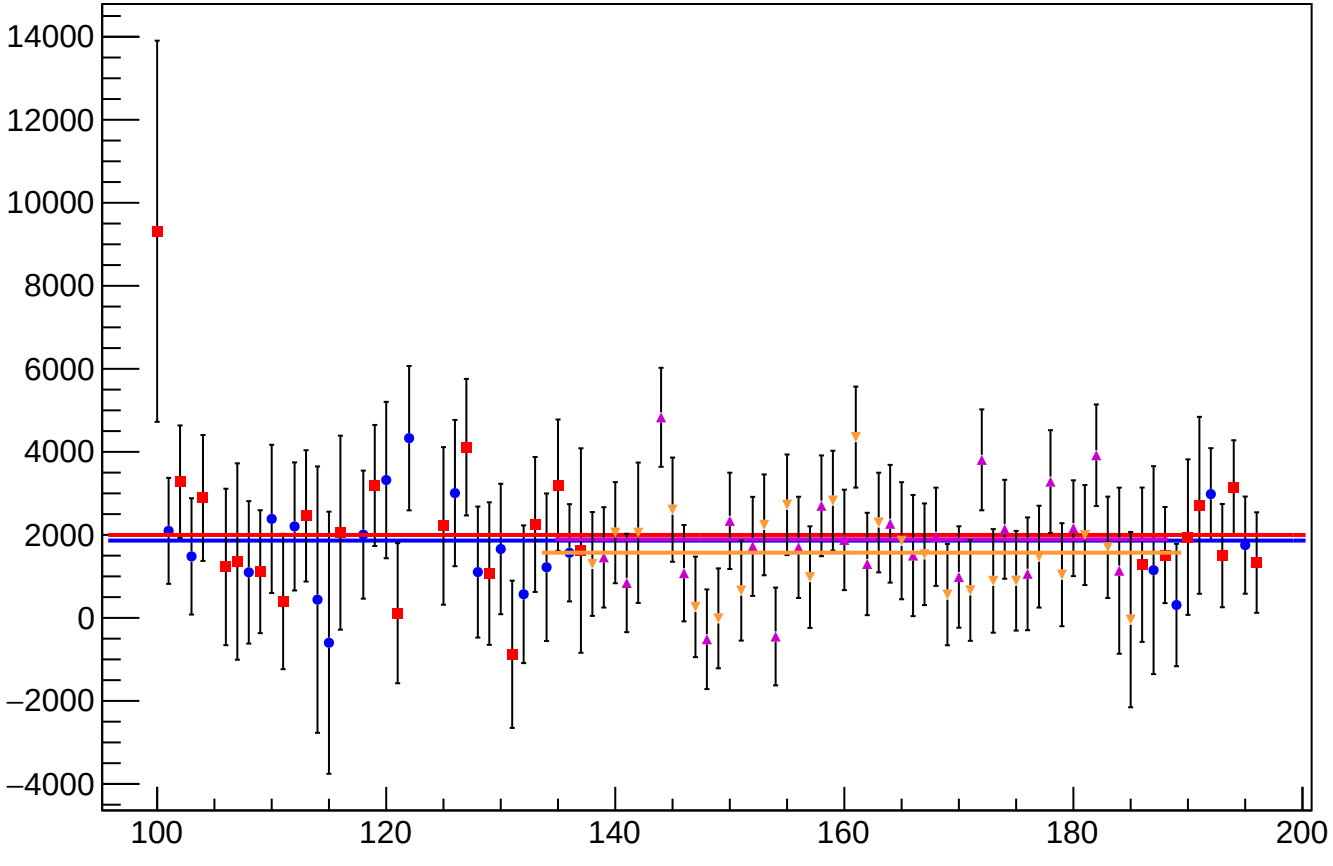
Right: 965.352+/-0.157 $\chi^2$/NDF: 3620928.7/43

In: 1182.740+/-0.167 $\chi^2$/NDF:4963812.0/42

Out: 1195.159+/-0.163 $\chi^2$/NDF:5300306.2/47

All: 1189.084+/-0.117 $\chi^2$/NDF: 10266955.9/9

# eigen_cor_asym_usl_mean vs Slug, Sign Corrected




Right In: 1862.615+/-350.773 $\chi^2$/NDF: 7.6/19

Left Out: 1571.055+/-256.536 $\chi^2$/NDF:15.4/23

Right Out: 1998.289+/-322.510 $\chi^2$/NDF: 14.5/24

Left In: 1893.347+/-258.339 $\chi^2$/NDF:24.1/22

Left: 1731.072+/-182.032 $\chi^2$/NDF: 40.3/46

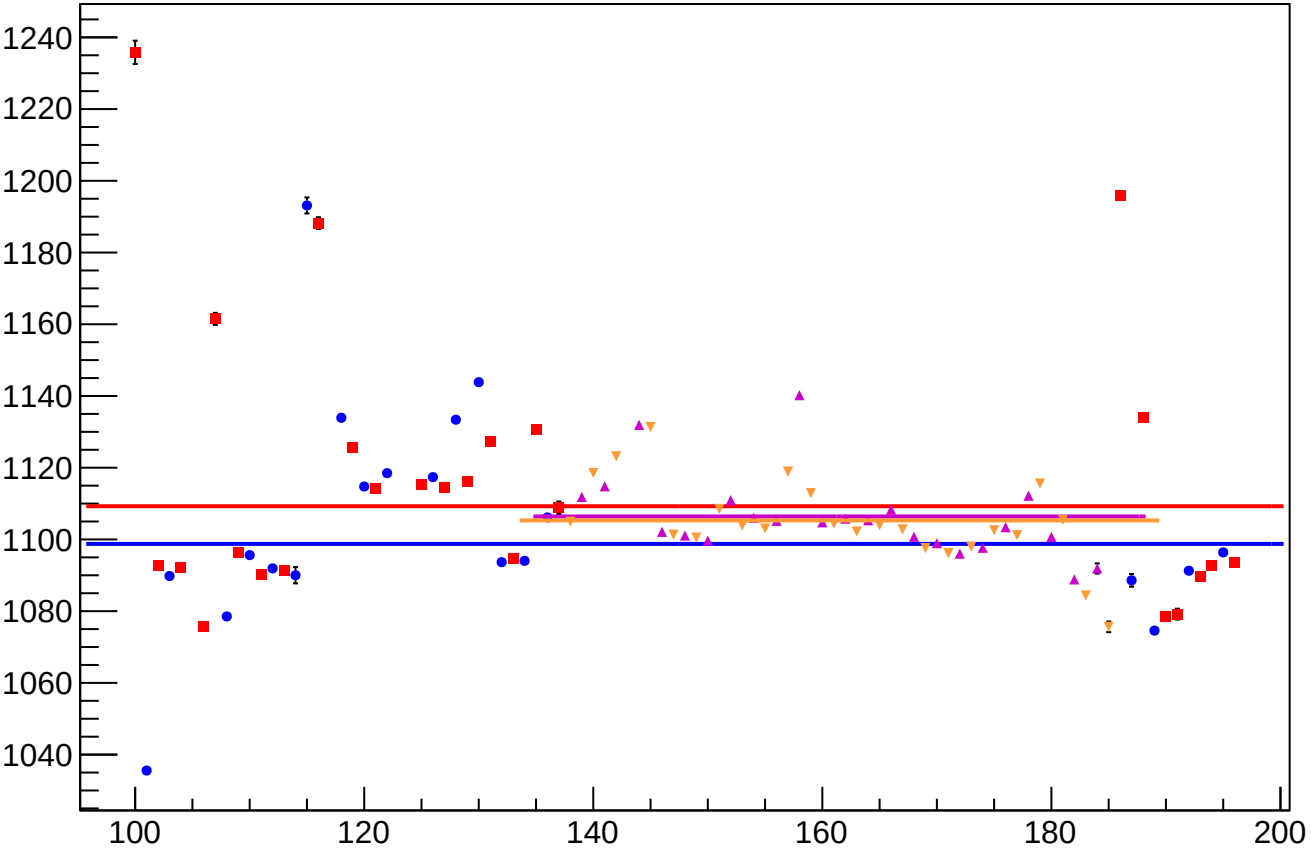
Right: 1936.137+/-237.413 $\chi^2$/NDF: 22.1/44

In: 1882.539+/-208.013 $\chi^2$/NDF:31.7/42

Out: 1736.618+/-200.767 $\chi^2$/NDF:30.9/48

All: 1806.993+/-144.458 $\chi^2$/NDF: 62.8/91

# eigen_cor_asym_usl_rms vs Slug, Sign Corrected




Right In: 1098.758+/-0.248 $\chi^2$/NDF: 12160.1/19

Left Out: 1105.294+/-0.181 $\chi^2$/NDF:3161.8/23

Right Out: 1109.257+/-0.228 $\chi^2$/NDF: 15183.0/24

Left In: 1106.405+/-0.183 $\chi^2$/NDF:3776.4/22

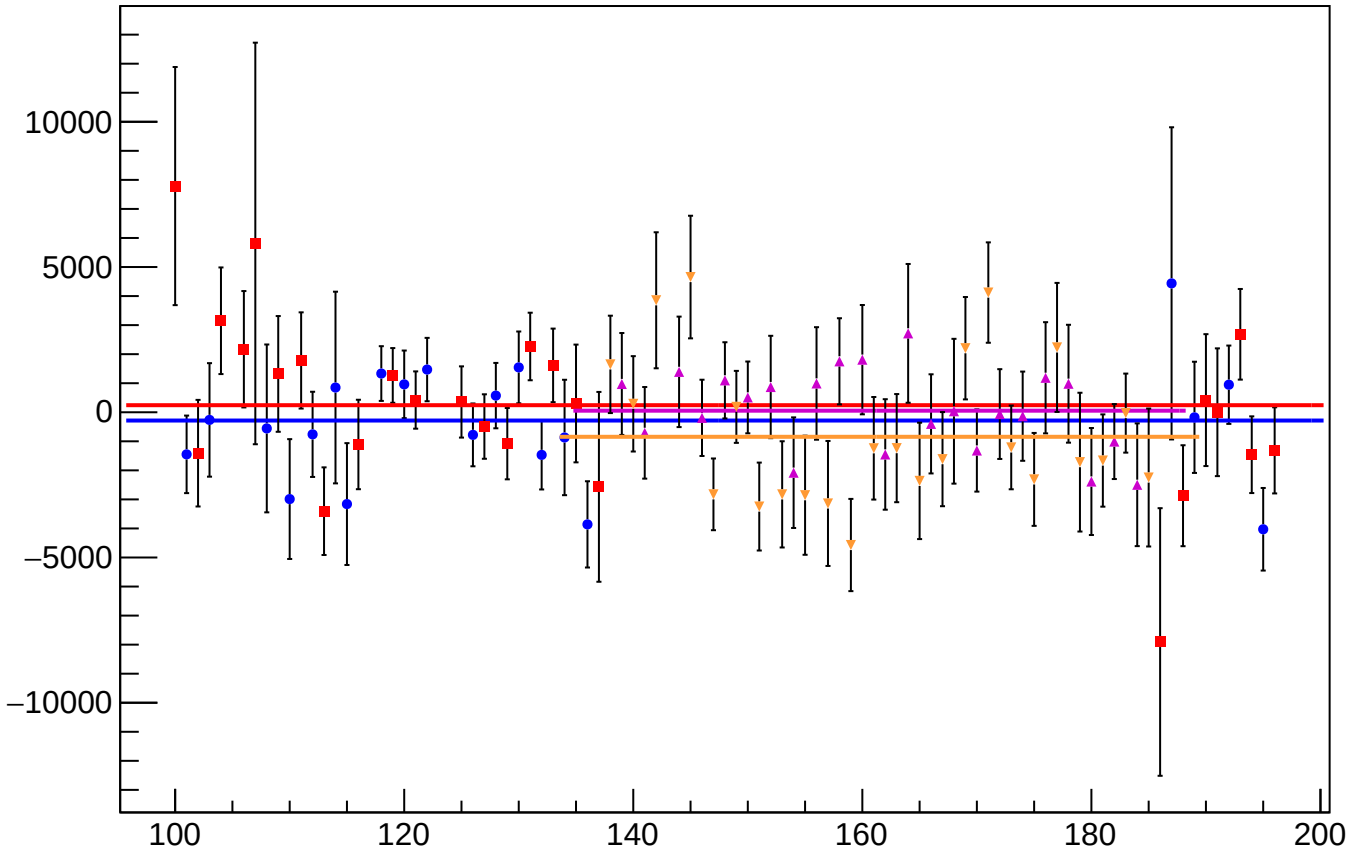
Left: 1105.846+/-0.129 $\chi^2$/NDF: 6956.8/46

Right: 1104.447+/-0.168 $\chi^2$/NDF: 28314.0/44

In: 1103.716+/-0.147 $\chi^2$/NDF:16552.8/42

Out: 1106.830+/-0.142 $\chi^2$/NDF:18529.7/48

All: 1105.328+/-0.102 $\chi^2$/NDF: 35314.5/91




Right In: -284.854+/-320.544 $\chi^2$/NDF: 29.7/19

Left Out: -844.649+/-347.346 $\chi^2$/NDF:44.2/23

Right Out: 243.321+/-306.897 $\chi^2$/NDF: 35.4/24

Left In: 54.347+/-345.962 $\chi^2$/NDF:13.0/22

Left: -393.356+/-245.120 $\chi^2$/NDF: 60.6/46

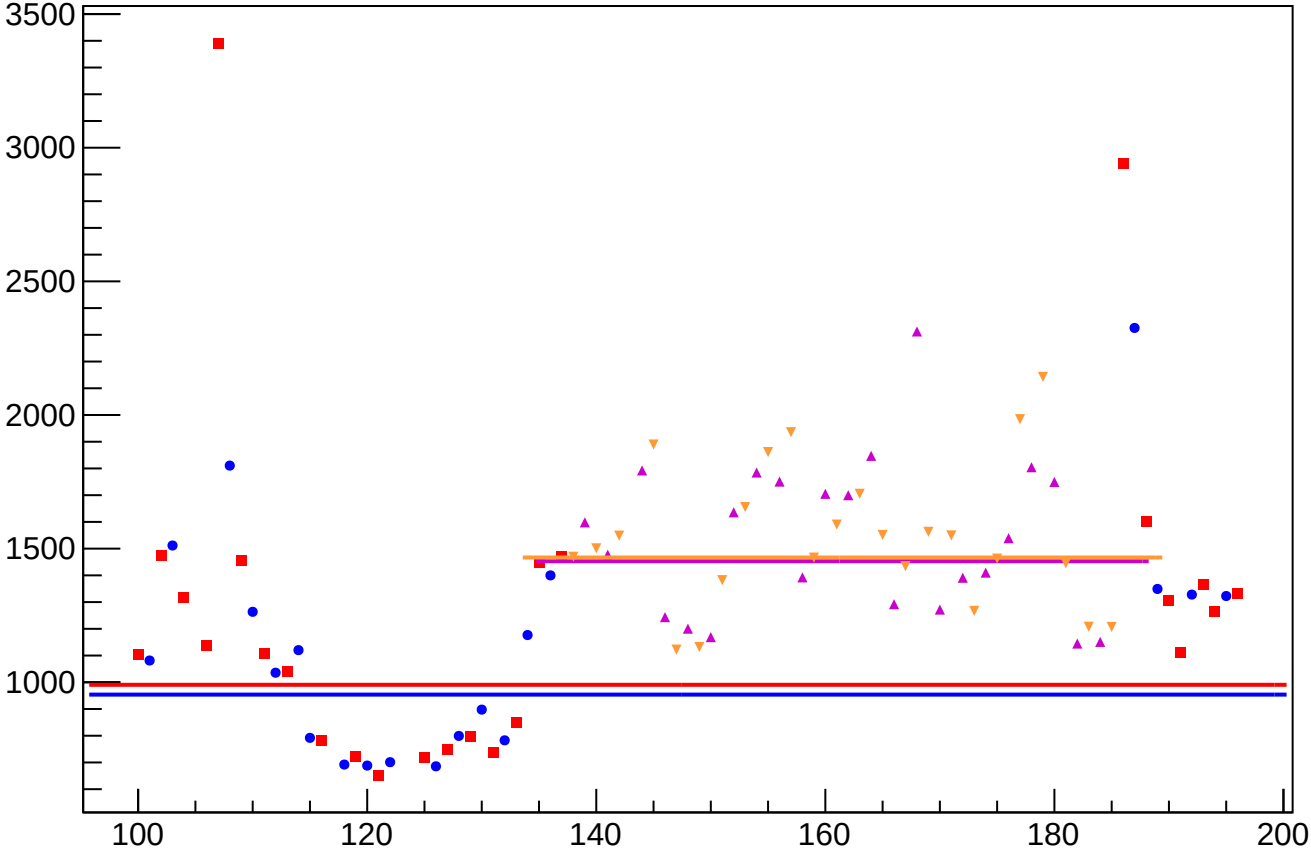
Right: -9.284+/-221.676 $\chi^2$/NDF: 66.5/44

In: -128.171+/-235.132 $\chi^2$/NDF:43.2/42

Out: -233.655+/-229.987 $\chi^2$/NDF:85.1/48

All: -182.079+/-164.414 $\chi^2$/NDF: 128.4/91

# asym_usl_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 953.842+/-0.227 $\chi^2$/NDF: 1707702.5/19

Left Out: 1466.846+/-0.246 $\chi^2$/NDF:1043303.8/23

Right Out: 990.511+/-0.217 $\chi^2$/NDF: 2476504.3/24

Left In: 1452.983+/-0.245 $\chi^2$/NDF:1129567.2/22

Left: 1459.887+/-0.173 $\chi^2$/NDF: 2174470.2/46

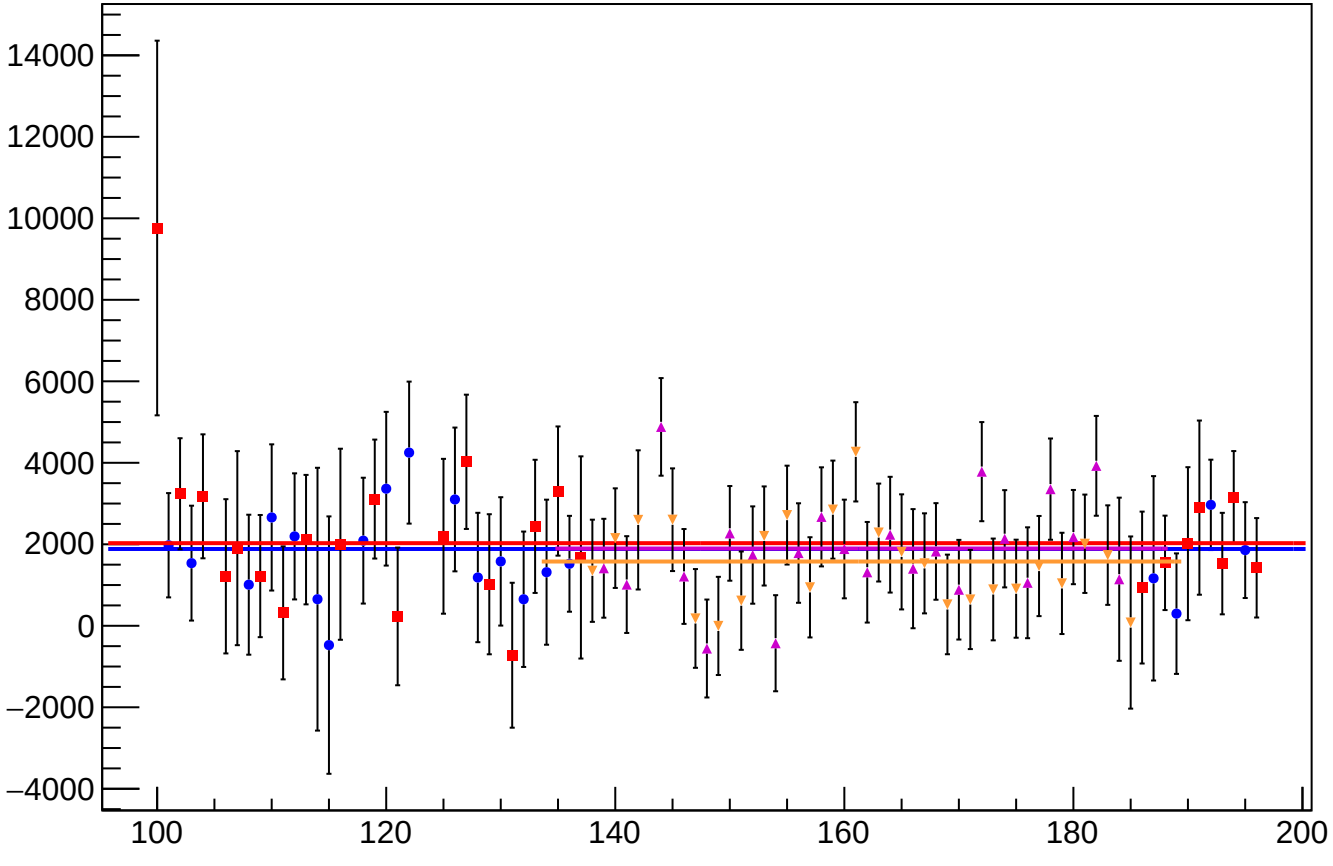
Right: 972.974+/-0.157 $\chi^2$/NDF: 4197862.4/44

In: 1184.404+/-0.166 $\chi^2$/NDF:5077369.6/42

Out: 1199.341+/-0.163 $\chi^2$/NDF:5632076.5/48

All: 1192.038+/-0.116 $\chi^2$/NDF: 10713570.6/9

# dit_asym_usl_mean vs Slug, Sign Corrected




Right In: 1884.966+/-351.774 $\chi^2$/NDF: 7.4/19

Left Out: 1577.402+/-257.003 $\chi^2$/NDF:15.5/23

Right Out: 2027.643+/-323.614 $\chi^2$/NDF: 14.5/24

Left In: 1895.548+/-258.750 $\chi^2$/NDF:24.1/22

Left: 1735.397+/-182.343 $\chi^2$/NDF: 40.4/46

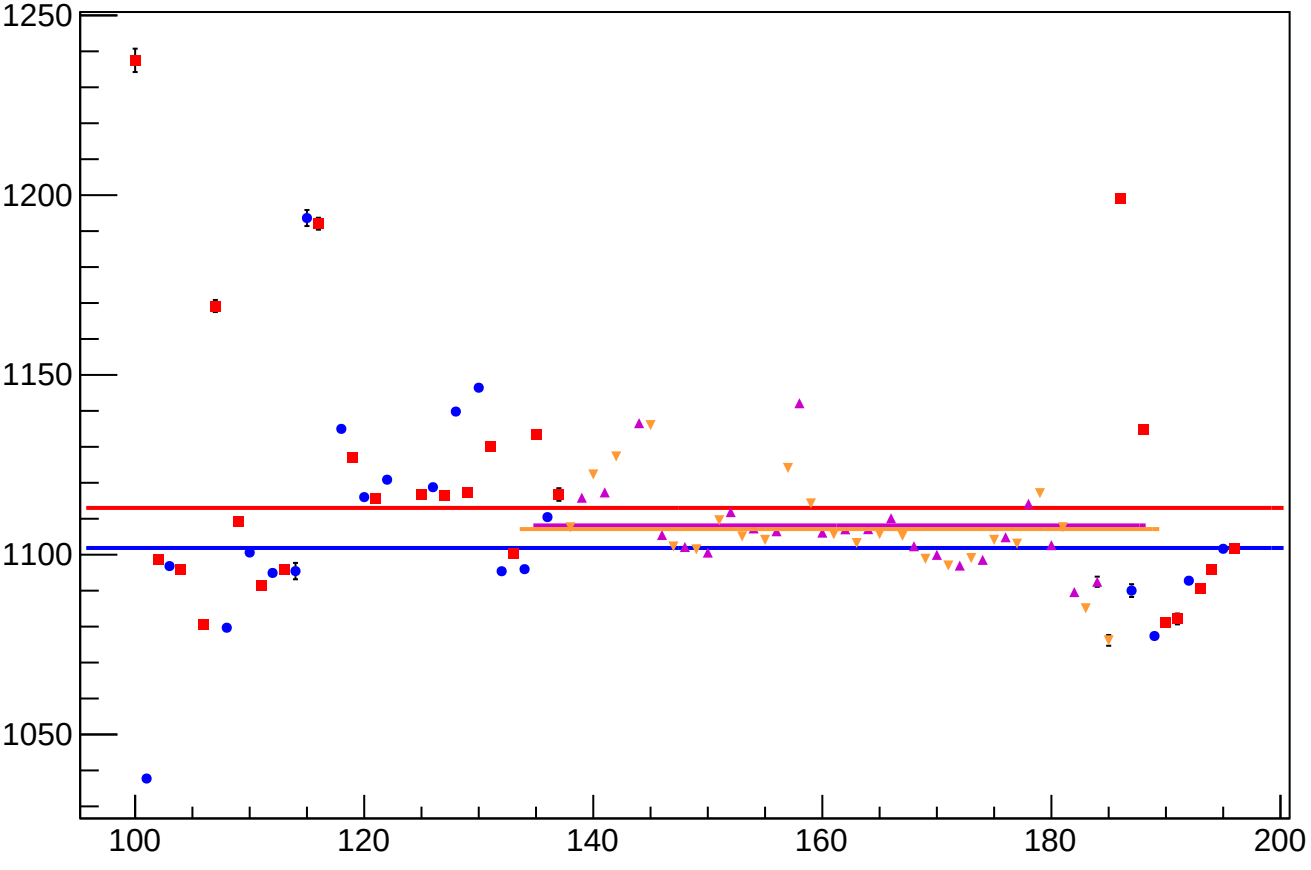
Right: 1962.243+/-238.163 $\chi^2$/NDF: 21.9/44

In: 1891.833+/-208.436 $\chi^2$/NDF:31.5/42

Out: 1751.540+/-201.257 $\chi^2$/NDF:31.2/48

All: 1819.229+/-144.782 $\chi^2$/NDF: 62.9/91

# dit_asym_usl_rms vs Slug, Sign Corrected




Right In: 1101.872+/-0.249 $\chi^2$/NDF: 12202.6/19

Left Out: 1107.127+/-0.182 $\chi^2$/NDF:3783.7/23

Right Out: 1113.012+/-0.229 $\chi^2$/NDF: 14592.4/24

Left In: 1108.145+/-0.183 $\chi^2$/NDF:4190.5/22

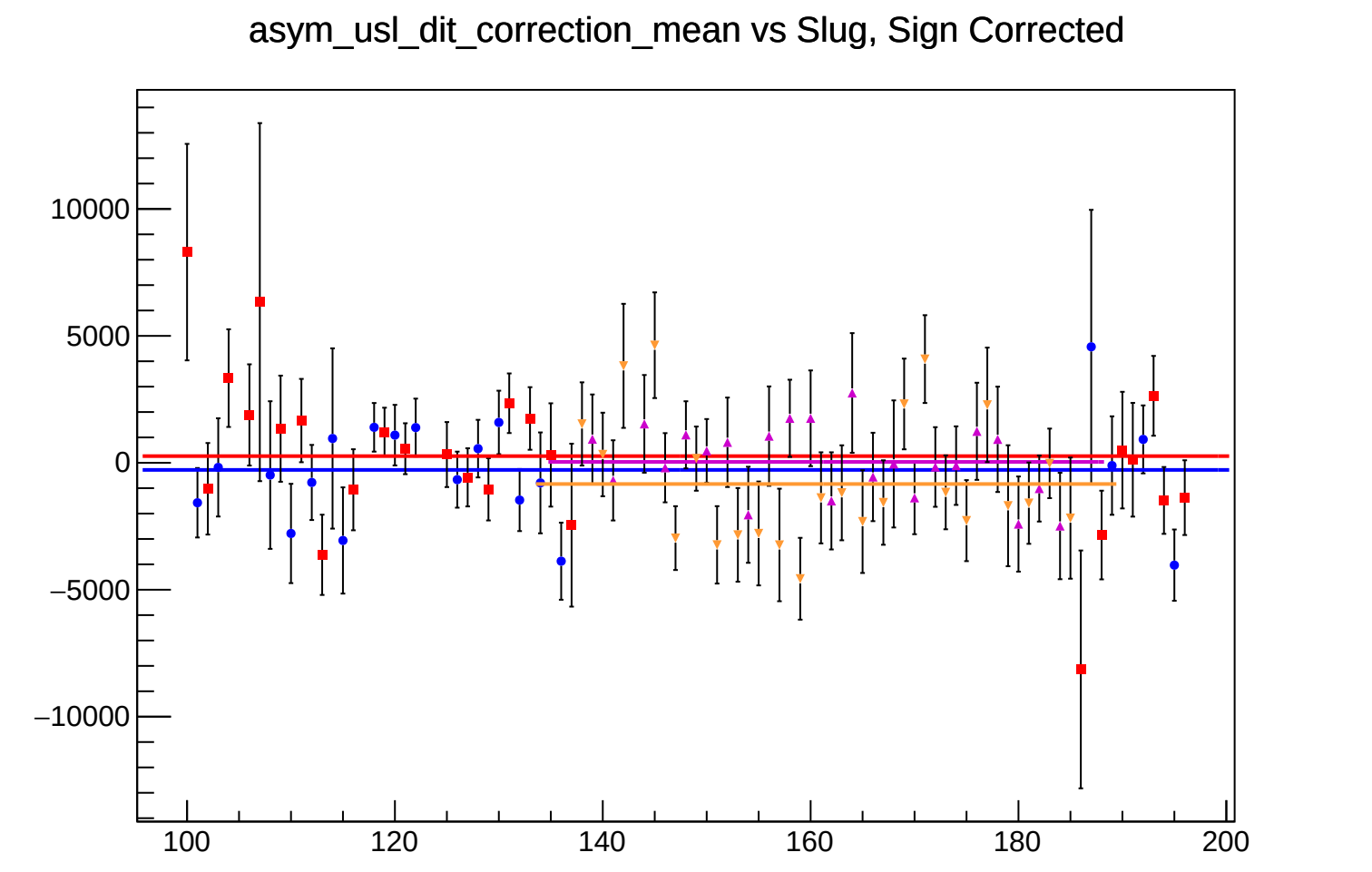
Left: 1107.633+/-0.129 $\chi^2$/NDF: 7989.9/46

Right: 1107.905+/-0.168 $\chi^2$/NDF: 27881.3/44

In: 1105.943+/-0.147 $\chi^2$/NDF:16805.9/42

Out: 1109.403+/-0.142 $\chi^2$/NDF:18781.7/48

All: 1107.733+/-0.102 $\chi^2$/NDF: 35872.8/91




Right In: -279.846+/-325.006 $\chi^2$/NDF: 29.4/19

Left Out: -835.288+/-350.615 $\chi^2$/NDF:43.6/23

Right Out: 263.576+/-310.844 $\chi^2$/NDF: 35.5/24

Left In: 35.516+/-349.636 $\chi^2$/NDF:13.1/22

Left: -398.668+/-247.575 $\chi^2$/NDF: 59.8/46

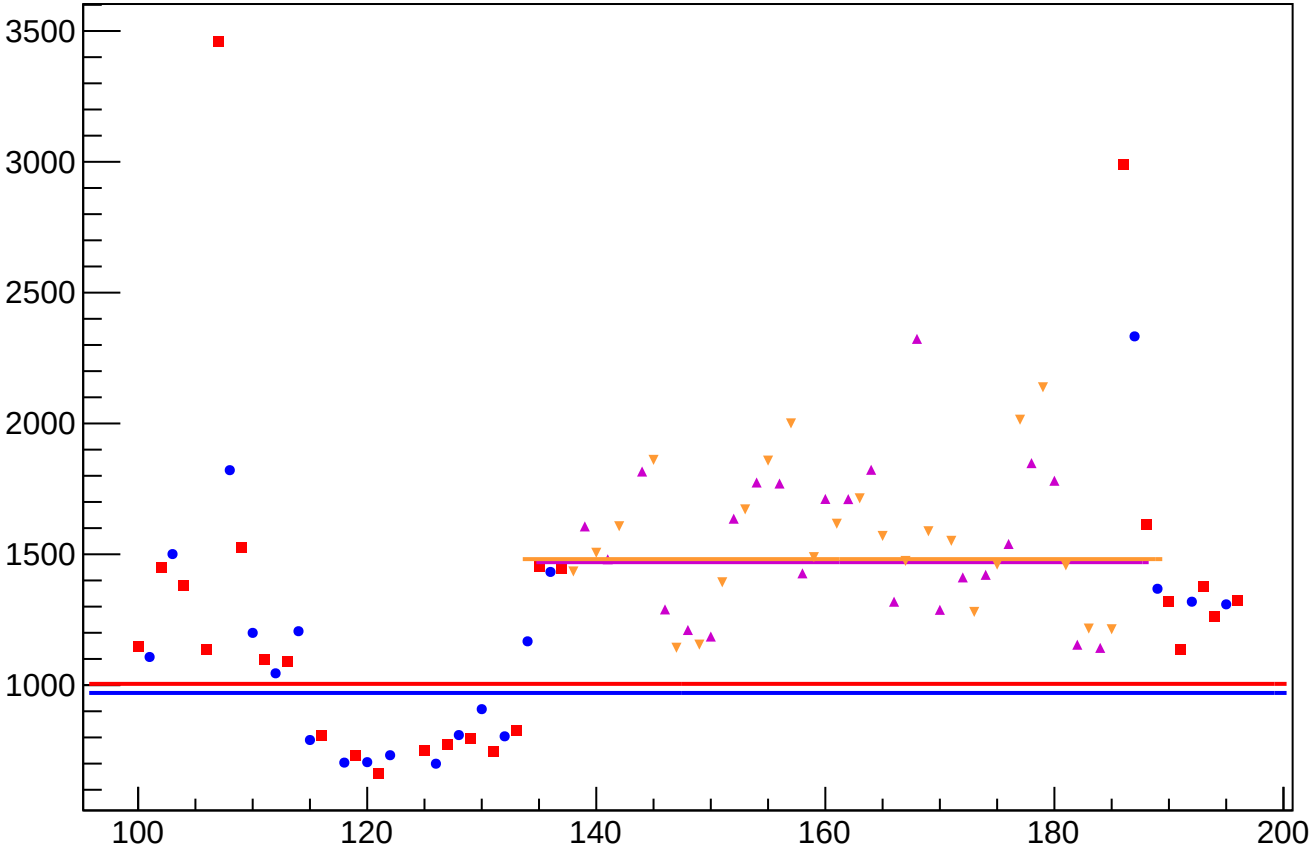
Right: 3.962+/-224.640 $\chi^2$/NDF: 66.3/44

In: -133.663+/-238.045 $\chi^2$/NDF:42.9/42

Out: -220.023+/-232.596 $\chi^2$/NDF:84.6/48

All: -177.843+/-166.363 $\chi^2$/NDF: 127.5/91

# asym_usl_dit_correction_rms vs Slug, Sign Corrected




Right In: 970.073+/-0.230 $\chi^2$/NDF: 1609688.3/19

Left Out: 1481.543+/-0.248 $\chi^2$/NDF:1017463.8/23

Right Out: 1004.745+/-0.220 $\chi^2$/NDF: 2435074.3/24

Left In: 1469.907+/-0.247 $\chi^2$/NDF:1095056.5/22

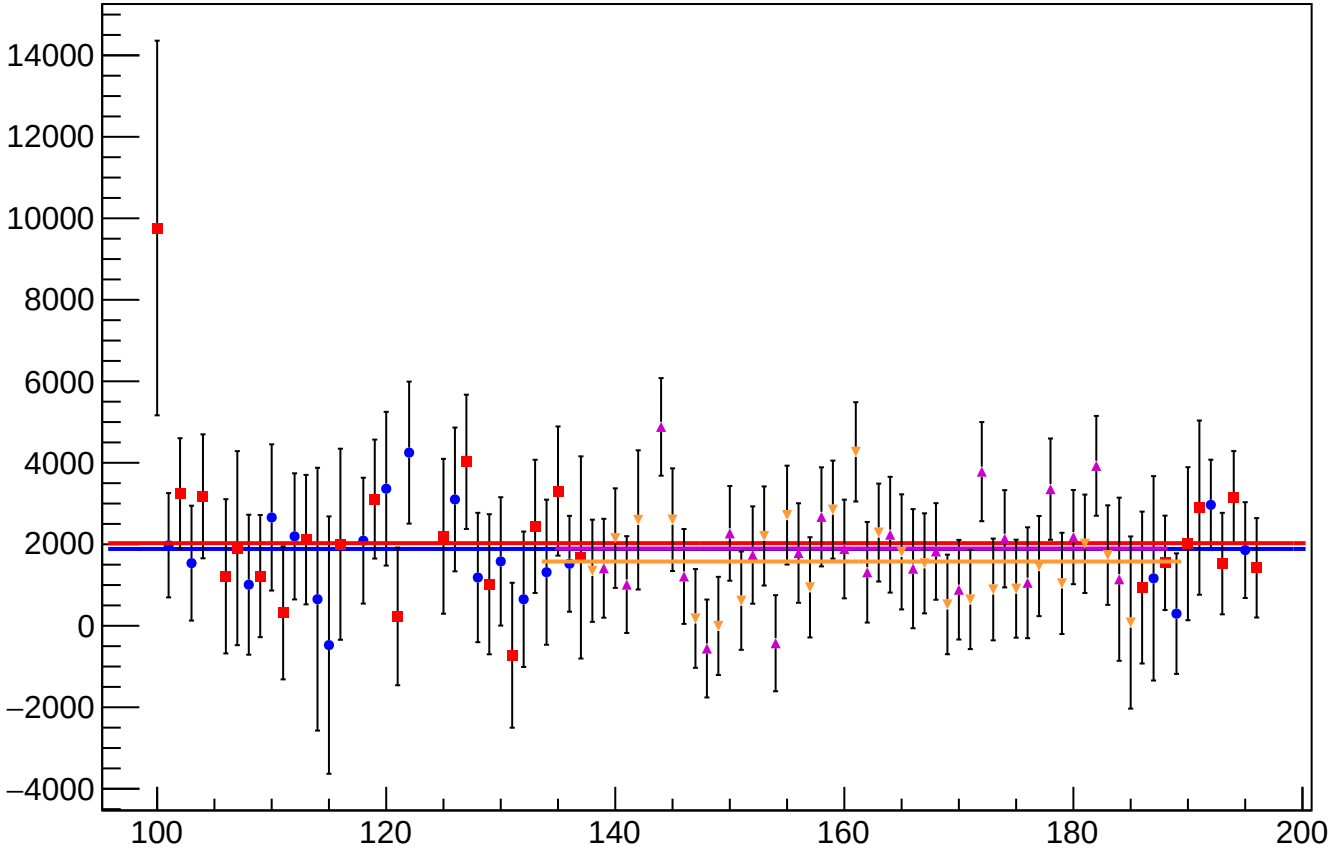
Left: 1475.709+/-0.175 $\chi^2$/NDF: 2113624.9/46

Right: 988.181+/-0.159 $\chi^2$/NDF: 4056650.5/44

In: 1201.766+/-0.168 $\chi^2$/NDF:4897485.6/42

Out: 1214.580+/-0.164 $\chi^2$/NDF:5523422.9/48

All: 1208.321+/-0.118 $\chi^2$/NDF: 10423873.2/9




Right In: 1884.966+/-351.774 $\chi^2$/NDF: 7.4/19

Left Out: 1577.399+/-257.003 $\chi^2$/NDF:15.5/23

Right Out: 2027.641+/-323.614 $\chi^2$/NDF: 14.5/24

Left In: 1895.549+/-258.750 $\chi^2$/NDF:24.1/22

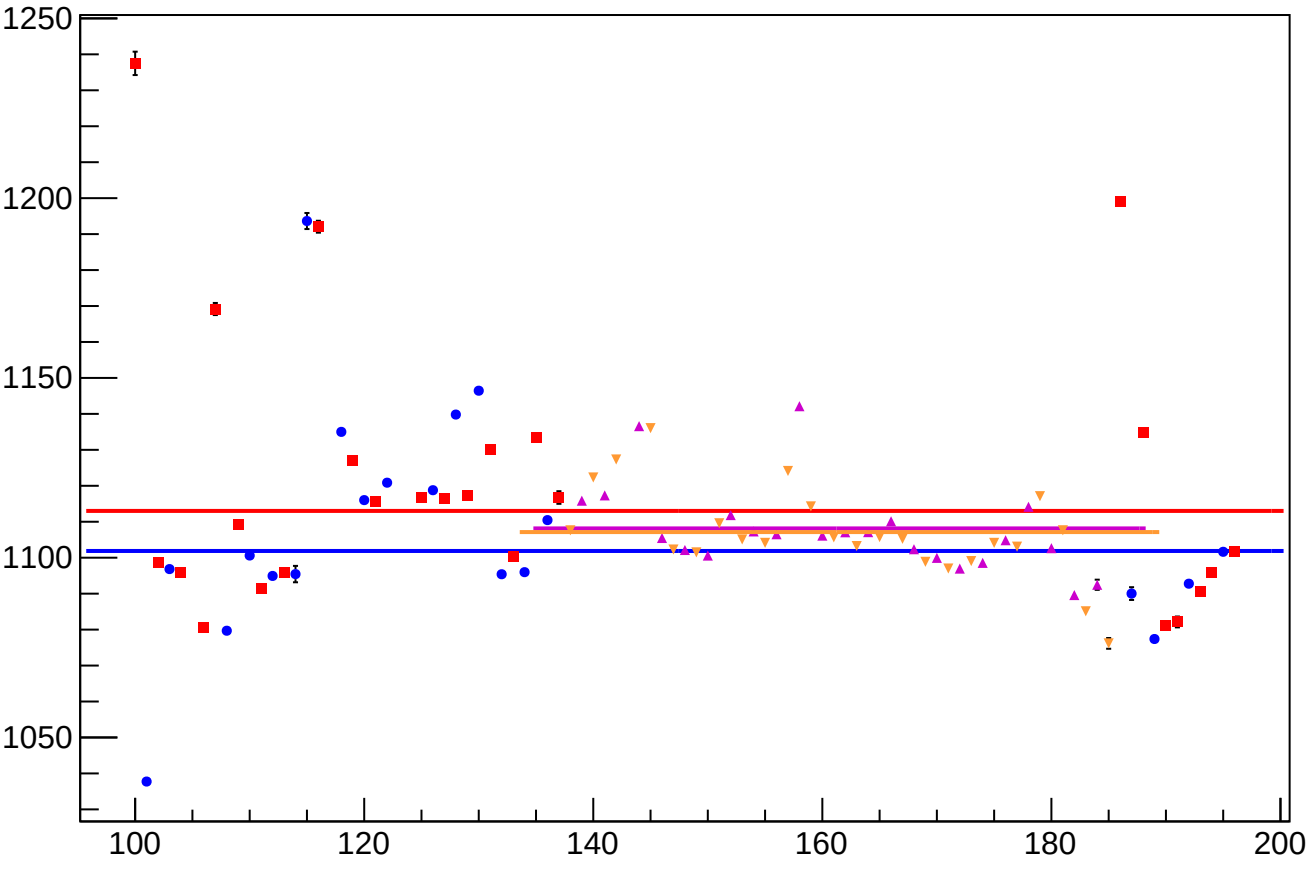
Left: 1735.396+/-182.343 $\chi^2$/NDF: 40.4/46

Right: 1962.242+/-238.163 $\chi^2$/NDF: 21.9/44

In: 1891.833+/-208.436 $\chi^2$/NDF:31.5/42

Out: 1751.537+/-201.257 $\chi^2$/NDF:31.2/48

All: 1819.228+/-144.782 $\chi^2$/NDF: 62.9/91




Right In: 1101.872+/-0.249 $\chi^2$/NDF: 12202.6/19

Left Out: 1107.127+/-0.182 $\chi^2$/NDF:3783.7/23

Right Out: 1113.012+/-0.229 $\chi^2$/NDF: 14592.3/24

Left In: 1108.145+/-0.183 $\chi^2$/NDF:4190.5/22

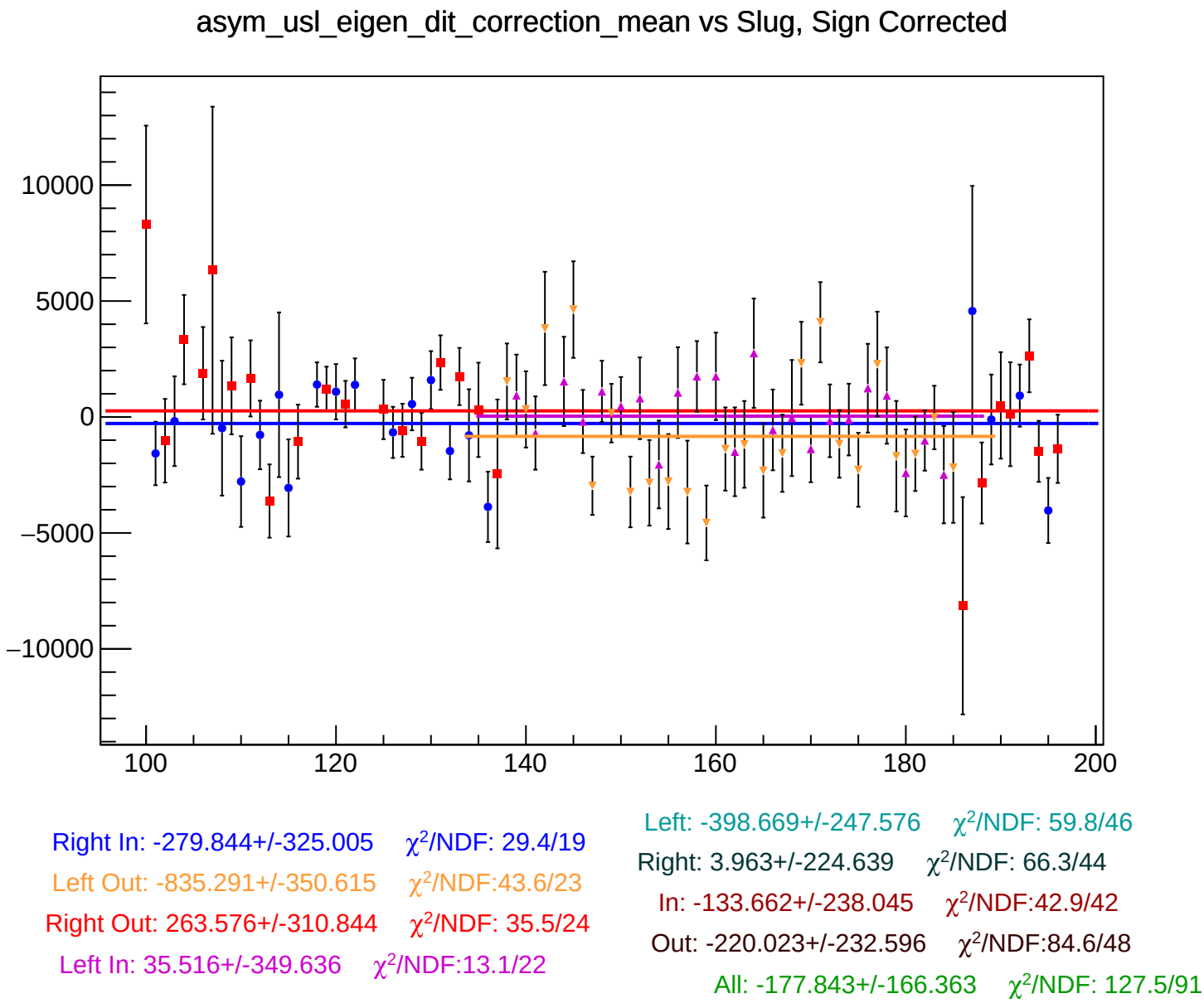
Left: 1107.633+/-0.129 $\chi^2$/NDF: 7989.9/46

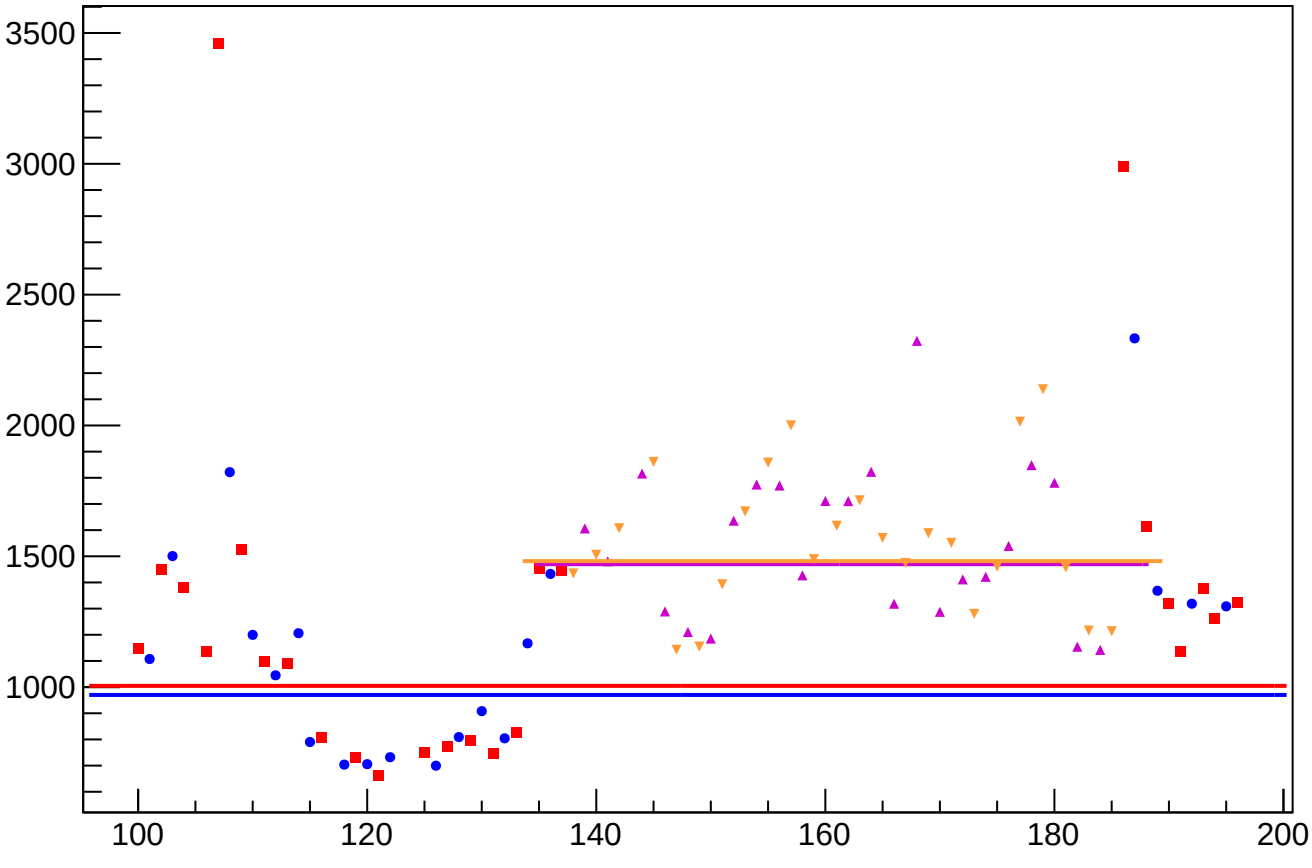
Right: 1107.905+/-0.168 $\chi^2$/NDF: 27881.3/44

In: 1105.943+/-0.147 $\chi^2$/NDF:16805.9/42

Out: 1109.403+/-0.142 $\chi^2$/NDF:18781.7/48

All: 1107.733+/-0.102 $\chi^2$/NDF: 35872.8/91


asym_usl_eigen_dit_correction_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -279.844+/-325.005 χ²/NDF: 29.4/19
Left Out: -835.291+/-350.615 χ²/NDF:43.6/23
Right Out: 263.576+/-310.844 χ²/NDF: 35.5/24
Left In: 35.516+/-349.636 χ²/NDF:13.1/22
Left: -398.669+/-247.576 χ²/NDF: 59.8/46
Right: 3.963+/-224.639 χ²/NDF: 66.3/44
In: -133.662+/-238.045 χ²/NDF:42.9/42
Out: -220.023+/-232.596 χ²/NDF:84.6/48
All: -177.843+/-166.363 χ²/NDF: 127.5/91




Right In: 970.071+/-0.230 $\chi^2$/NDF: 1609697.1/19

Left Out: 1481.545+/-0.248 $\chi^2$/NDF:1017460.8/23

Right Out: 1004.743+/-0.220 $\chi^2$/NDF: 2435085.0/24

Left In: 1469.908+/-0.247 $\chi^2$/NDF:1095054.0/22

Left: 1475.710+/-0.175 $\chi^2$/NDF: 2113619.5/46

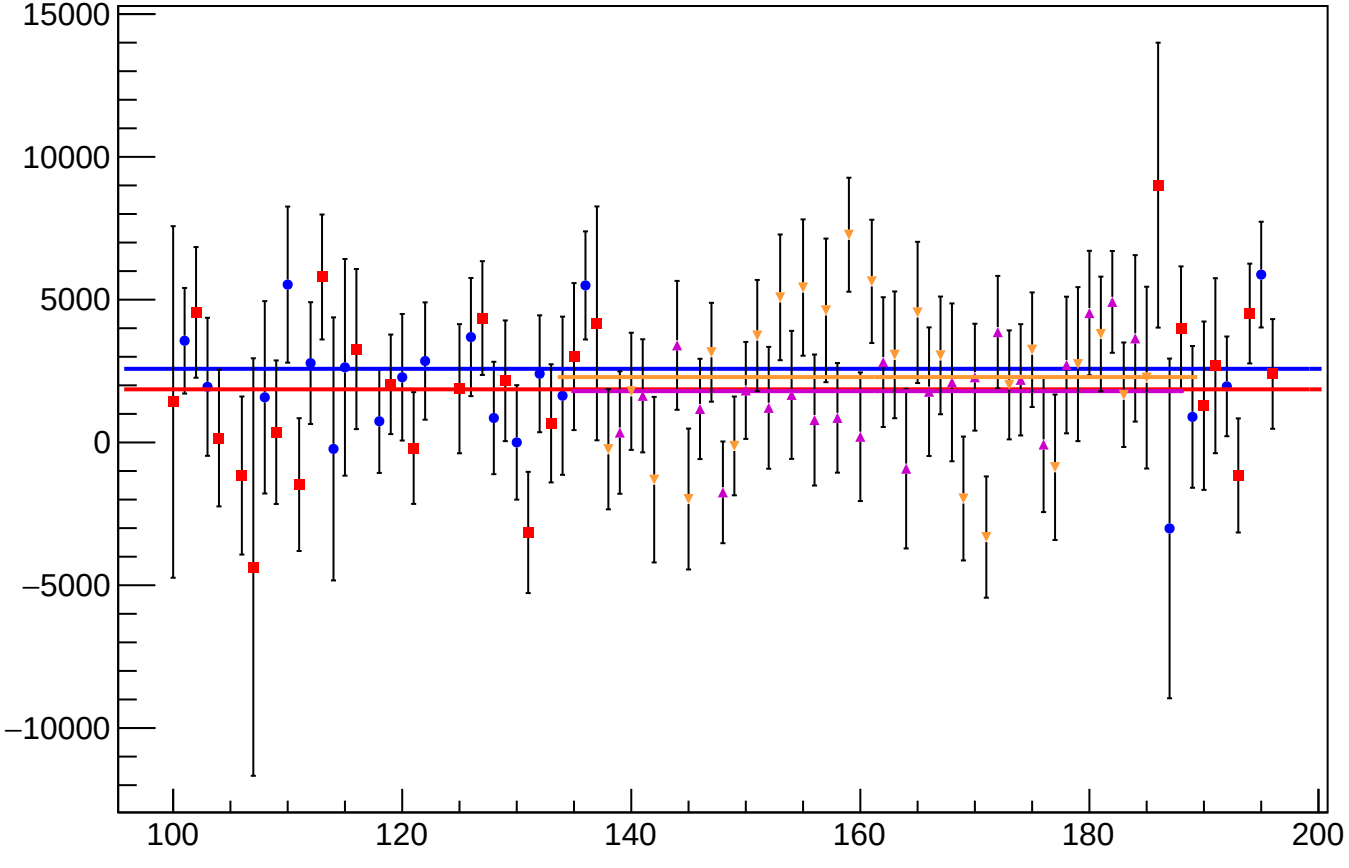
Right: 988.179+/-0.159 $\chi^2$/NDF: 4056669.9/44

In: 1201.765+/-0.168 $\chi^2$/NDF:4897521.8/42

Out: 1214.578+/-0.164 $\chi^2$/NDF:5523461.8/48

All: 1208.320+/-0.118 $\chi^2$/NDF: 10423948.3/9

# asym_usl_mean vs Slug, Sign Corrected




Right In: 2578.490+/-502.039 $\chi^2$/NDF: 12.9/19

Left Out: 2289.701+/-439.328 $\chi^2$/NDF:36.0/23

Right Out: 1860.406+/-472.966 $\chi^2$/NDF: 26.6/24

Left In: 1796.308+/-439.143 $\chi^2$/NDF:14.2/22

Left: 2042.900+/-310.586 $\chi^2$/NDF: 50.9/46

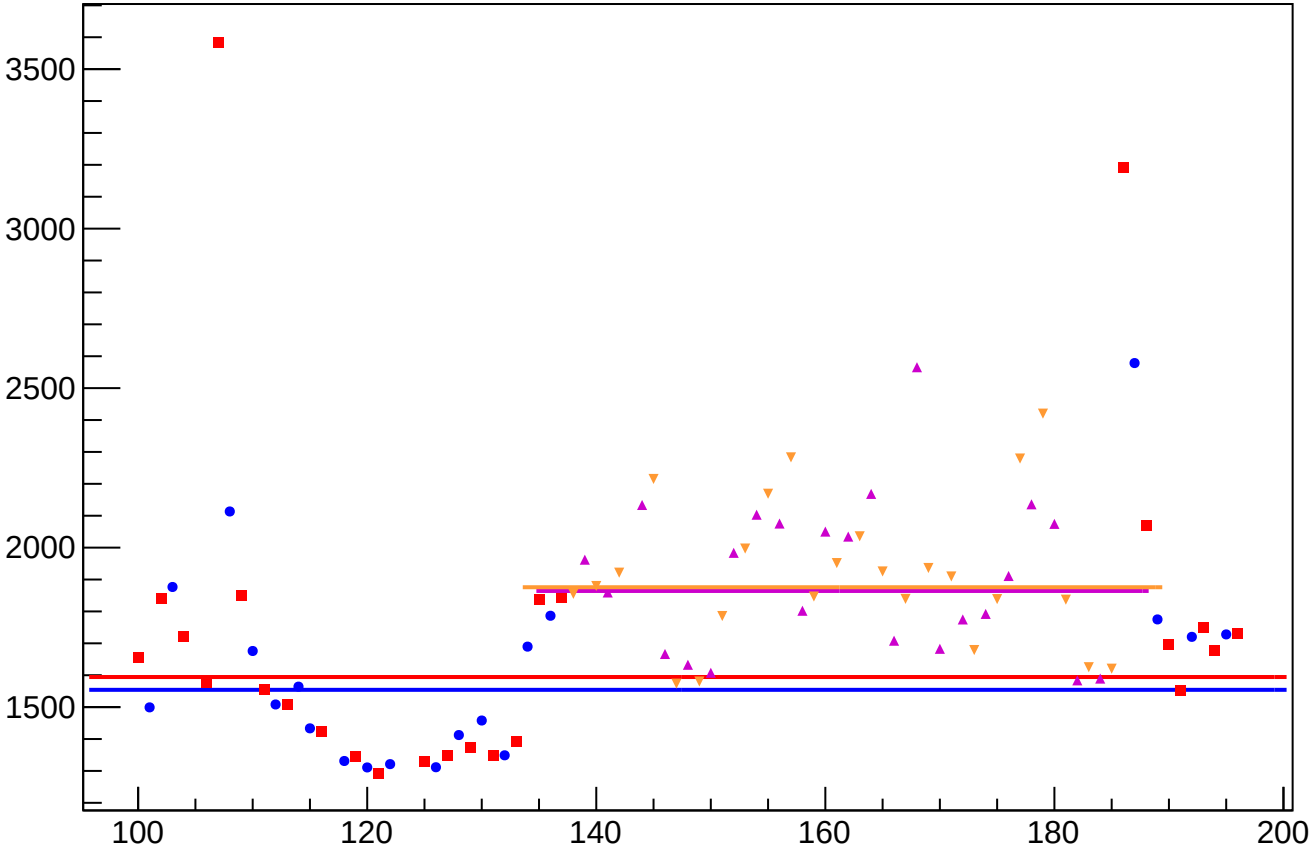
Right: 2198.055+/-344.257 $\chi^2$/NDF: 40.6/44

In: 2135.360+/-330.535 $\chi^2$/NDF:28.5/42

Out: 2090.860+/-321.887 $\chi^2$/NDF:63.1/48

All: 2112.521+/-230.605 $\chi^2$/NDF: 91.6/91

# asym_usl_rms vs Slug, Sign Corrected




Right In: 1554.209+/-0.355 $\chi^2$/NDF: 387943.4/19

Left Out: 1875.818+/-0.311 $\chi^2$/NDF:472556.0/23

Right Out: 1594.383+/-0.334 $\chi^2$/NDF: 778850.5/24

Left In: 1864.162+/-0.311 $\chi^2$/NDF:510600.5/22

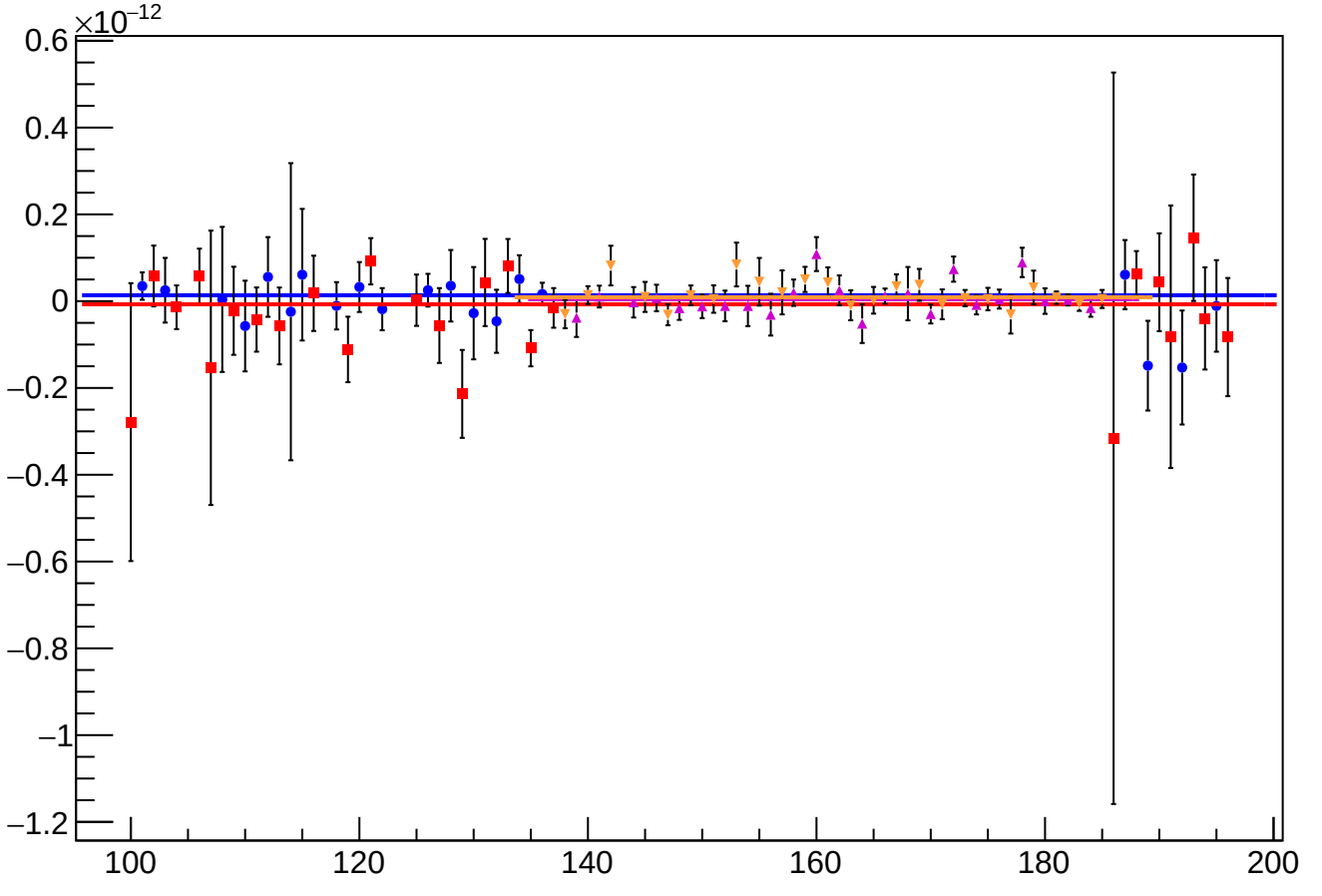
Left: 1869.988+/-0.220 $\chi^2$/NDF: 983860.8/46

Right: 1575.493+/-0.243 $\chi^2$/NDF: 1173578.9/44

In: 1729.807+/-0.234 $\chi^2$/NDF:1330430.4/42

Out: 1745.464+/-0.228 $\chi^2$/NDF:1631558.9/48

All: 1737.843+/-0.163 $\chi^2$/NDF: 2964292.5/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:16.6/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.3/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.1/22

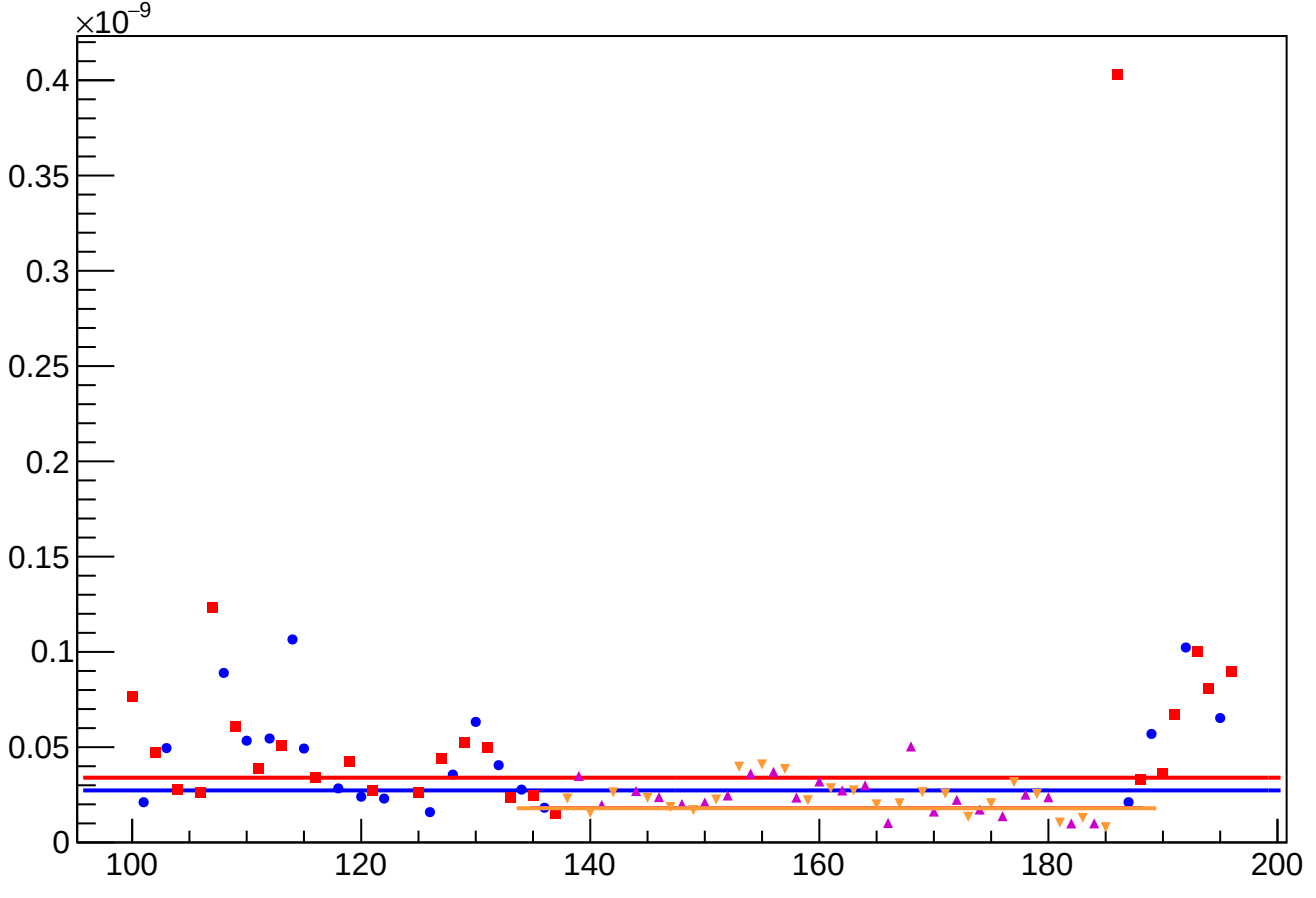
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.1/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 34.4/44

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:42.9/48

All: 0.000+/-0.000 $\chi^2$/NDF: 79.4/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2828719.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3491055.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2754902.3/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:4180182.9/22

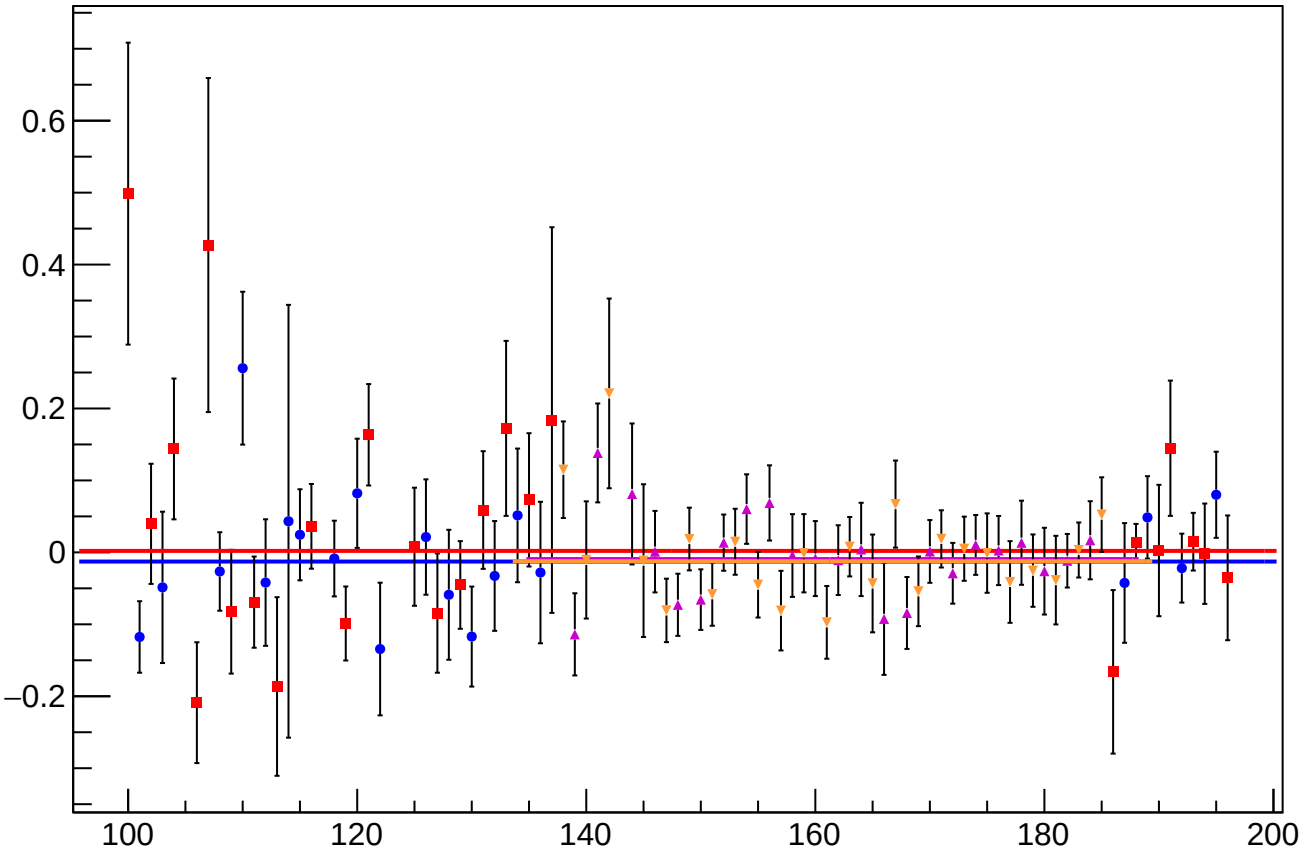
Left: 0.000+/-0.000 $\chi^2$/NDF: 7671624.5/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 5810518.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:7861094.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8284366.2/48

All: 0.000+/-0.000 $\chi^2$/NDF: 16151497.1/91




Right In: -0.013+/-0.016 $\chi^2$/NDF: 21.8/19

Left Out: -0.012+/-0.010 $\chi^2$/NDF:21.9/23

Right Out: 0.002+/-0.014 $\chi^2$/NDF: 41.7/24

Left In: -0.009+/-0.010 $\chi^2$/NDF:21.9/22

Left: -0.011+/-0.007 $\chi^2$/NDF: 43.9/46

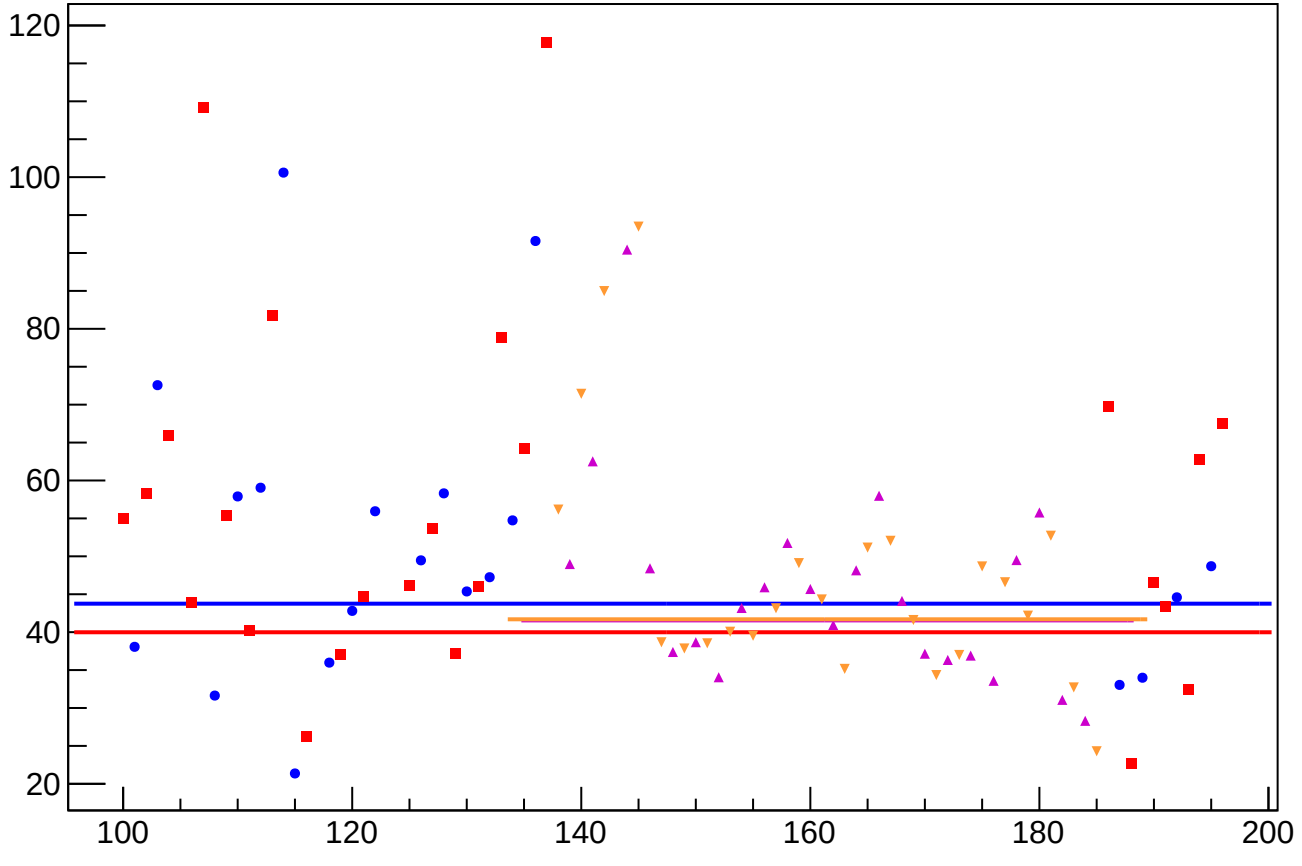
Right: -0.004+/-0.010 $\chi^2$/NDF: 64.0/44

In: -0.010+/-0.009 $\chi^2$/NDF:43.8/42

Out: -0.007+/-0.008 $\chi^2$/NDF:64.3/48

All: -0.009+/-0.006 $\chi^2$/NDF: 108.1/91

# asym_usl_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 43.755+/-0.011 $\chi^2$/NDF: 1445415.5/19

Left Out: 41.694+/-0.007 $\chi^2$/NDF:1821790.0/23

Right Out: 39.986+/-0.010 $\chi^2$/NDF: 2931803.0/24

Left In: 41.550+/-0.007 $\chi^2$/NDF:1612979.7/22

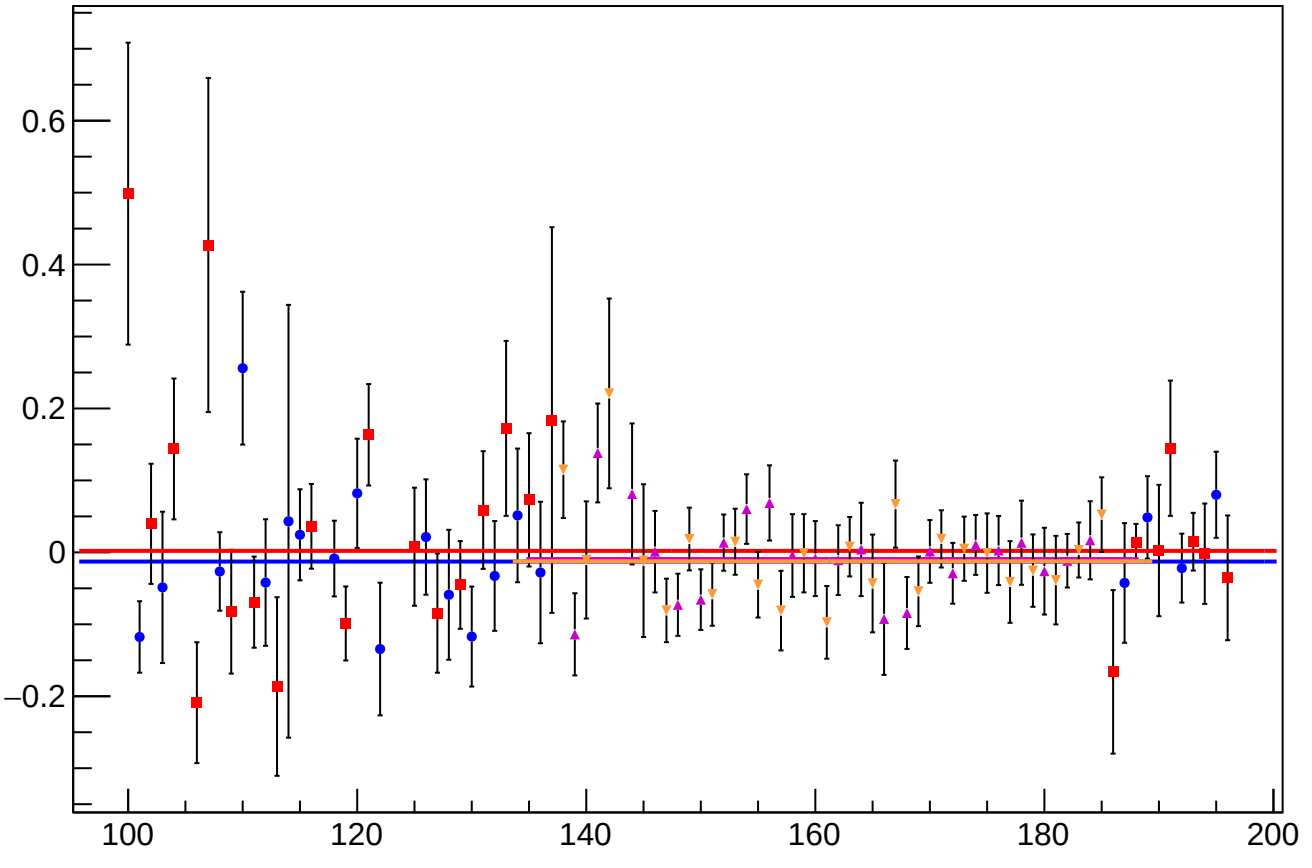
Left: 41.622+/-0.005 $\chi^2$/NDF: 3434958.6/46

Right: 41.595+/-0.007 $\chi^2$/NDF: 4442425.2/44

In: 42.224+/-0.006 $\chi^2$/NDF:3085433.5/42

Out: 41.059+/-0.006 $\chi^2$/NDF:4773312.9/48

All: 41.613+/-0.004 $\chi^2$/NDF: 7877393.2/91




Right In: -0.013+/-0.016 $\chi^2$/NDF: 21.8/19

Left Out: -0.012+/-0.010 $\chi^2$/NDF:21.9/23

Right Out: 0.002+/-0.014 $\chi^2$/NDF: 41.7/24

Left In: -0.009+/-0.010 $\chi^2$/NDF:21.9/22

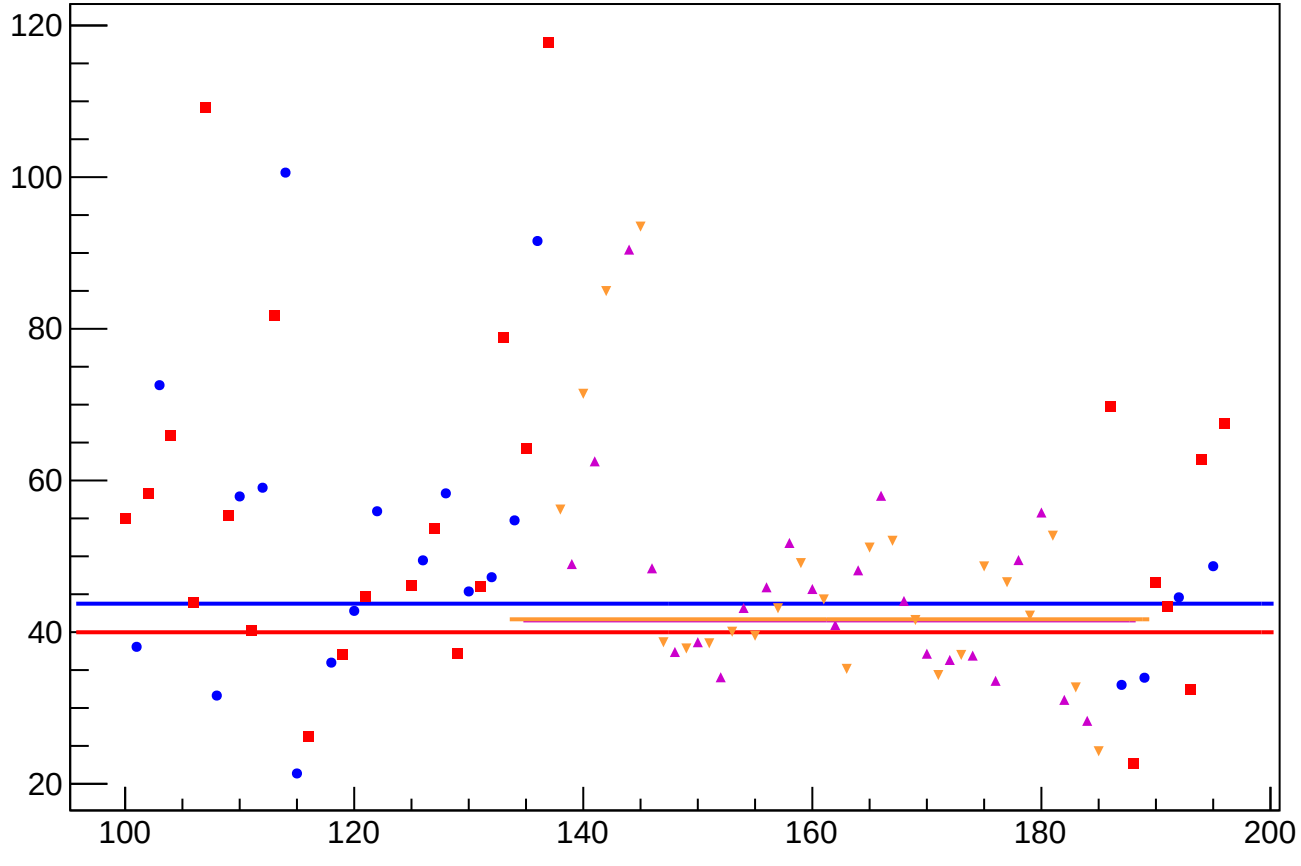
Left: -0.011+/-0.007 $\chi^2$/NDF: 43.9/46

Right: -0.004+/-0.010 $\chi^2$/NDF: 64.0/44

In: -0.010+/-0.009 $\chi^2$/NDF:43.8/42

Out: -0.007+/-0.008 $\chi^2$/NDF:64.3/48

All: -0.009+/-0.006 $\chi^2$/NDF: 108.1/91




Right In: 43.755+/-0.011 $\chi^2$/NDF: 1445415.5/19

Left Out: 41.694+/-0.007 $\chi^2$/NDF:1821790.0/23

Right Out: 39.986+/-0.010 $\chi^2$/NDF: 2931803.0/24

Left In: 41.550+/-0.007 $\chi^2$/NDF:1612979.7/22

Left: 41.622+/-0.005 $\chi^2$/NDF: 3434958.6/46

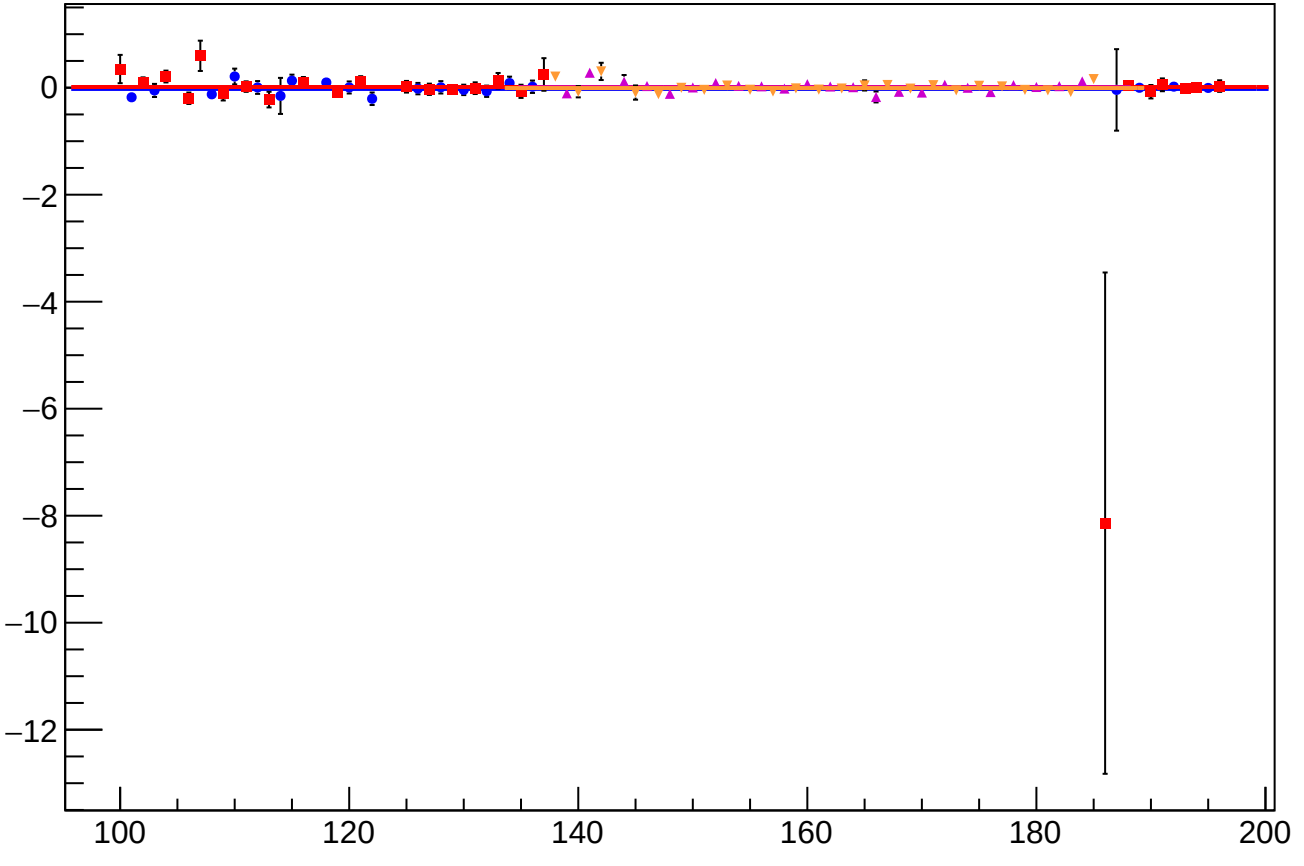
Right: 41.595+/-0.007 $\chi^2$/NDF: 4442425.2/44

In: 42.224+/-0.006 $\chi^2$/NDF:3085433.5/42

Out: 41.059+/-0.006 $\chi^2$/NDF:4773312.9/48

All: 41.613+/-0.004 $\chi^2$/NDF: 7877393.2/91

asym_usl_dit_vs_overload_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.023+/-0.022 $\chi^2$/NDF: 18.2/19

Left Out: -0.007+/-0.015 $\chi^2$/NDF:23.7/23

Right Out: 0.013+/-0.020 $\chi^2$/NDF: 26.9/24

Left In: 0.008+/-0.015 $\chi^2$/NDF:28.1/22

Left: 0.000+/-0.011 $\chi^2$/NDF: 52.2/46

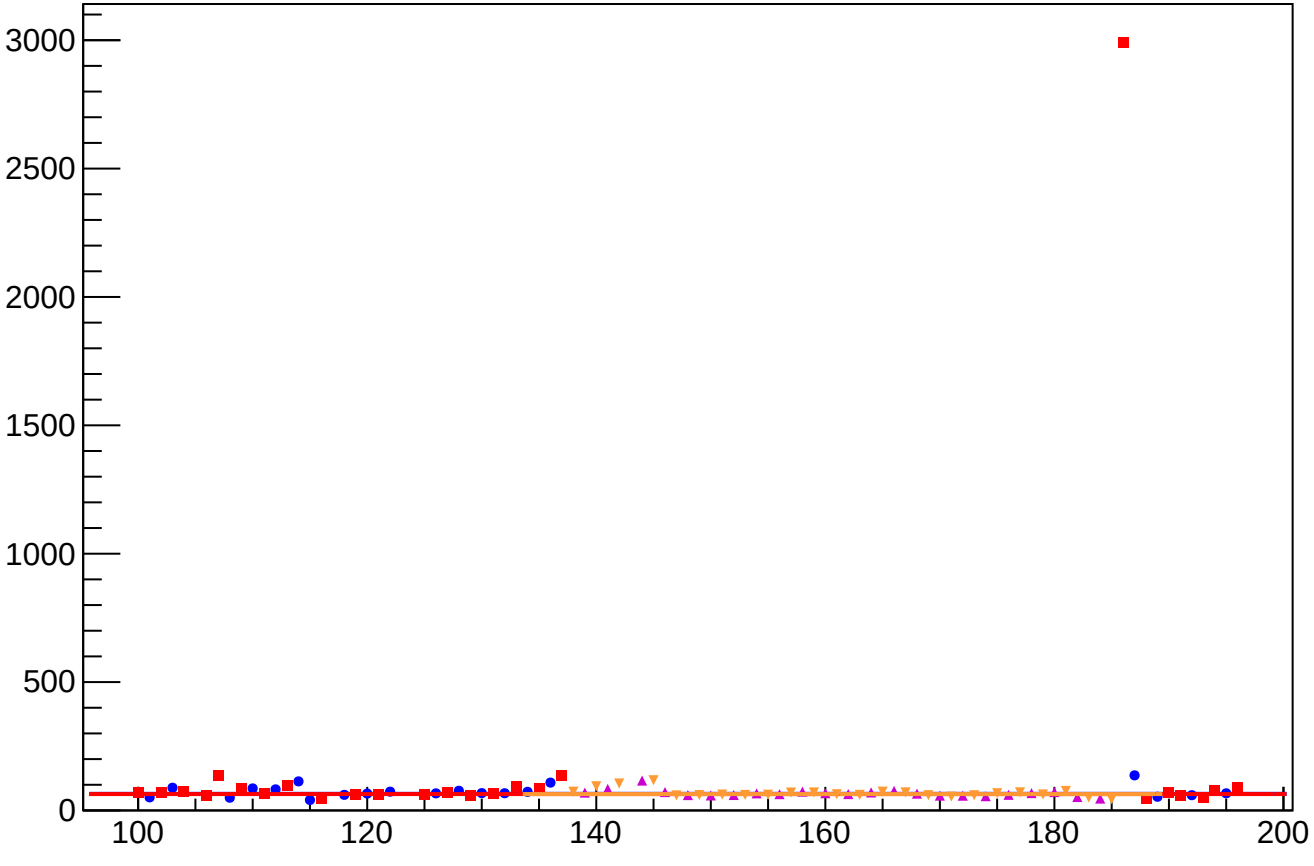
Right: -0.003+/-0.015 $\chi^2$/NDF: 46.5/44

In: -0.002+/-0.013 $\chi^2$/NDF:47.7/42

Out: 0.000+/-0.012 $\chi^2$/NDF:51.1/48

All: -0.001+/-0.009 $\chi^2$/NDF: 98.8/91

asym_usl_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 64.721+/-0.016 $\chi^2$/NDF: 846959.4/19

Left Out: 63.779+/-0.011 $\chi^2$/NDF:1078823.1/23

Right Out: 63.807+/-0.014 $\chi^2$/NDF: 1973624.7/24

Left In: 64.036+/-0.011 $\chi^2$/NDF:838789.3/22

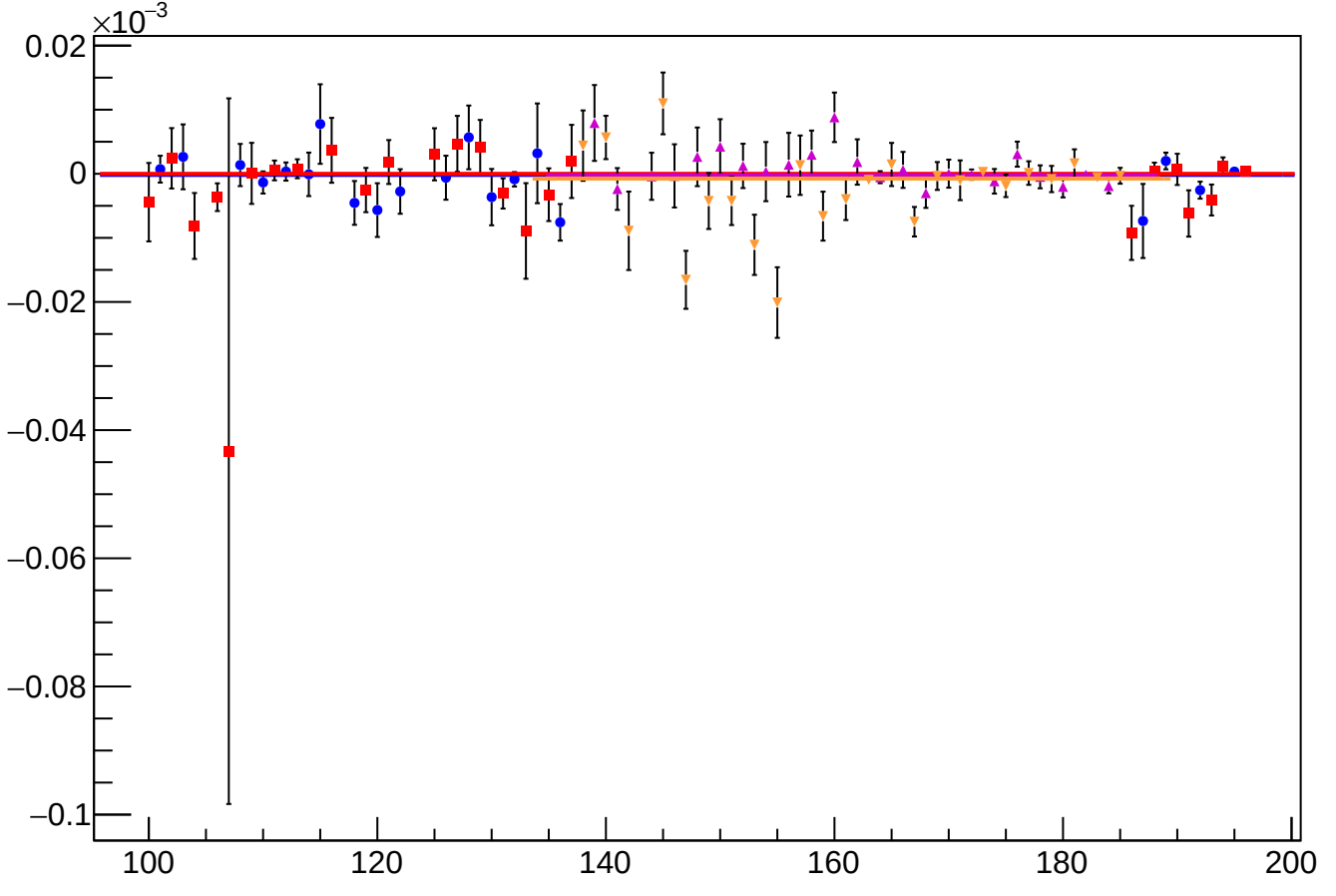
Left: 63.907+/-0.008 $\chi^2$/NDF: 1917889.6/46

Right: 64.221+/-0.011 $\chi^2$/NDF: 2822414.4/44

In: 64.258+/-0.009 $\chi^2$/NDF:1687018.9/42

Out: 63.789+/-0.009 $\chi^2$/NDF:3052450.2/48

All: 64.015+/-0.006 $\chi^2$/NDF: 4740876.8/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 24.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:60.0/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.1/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.8/22

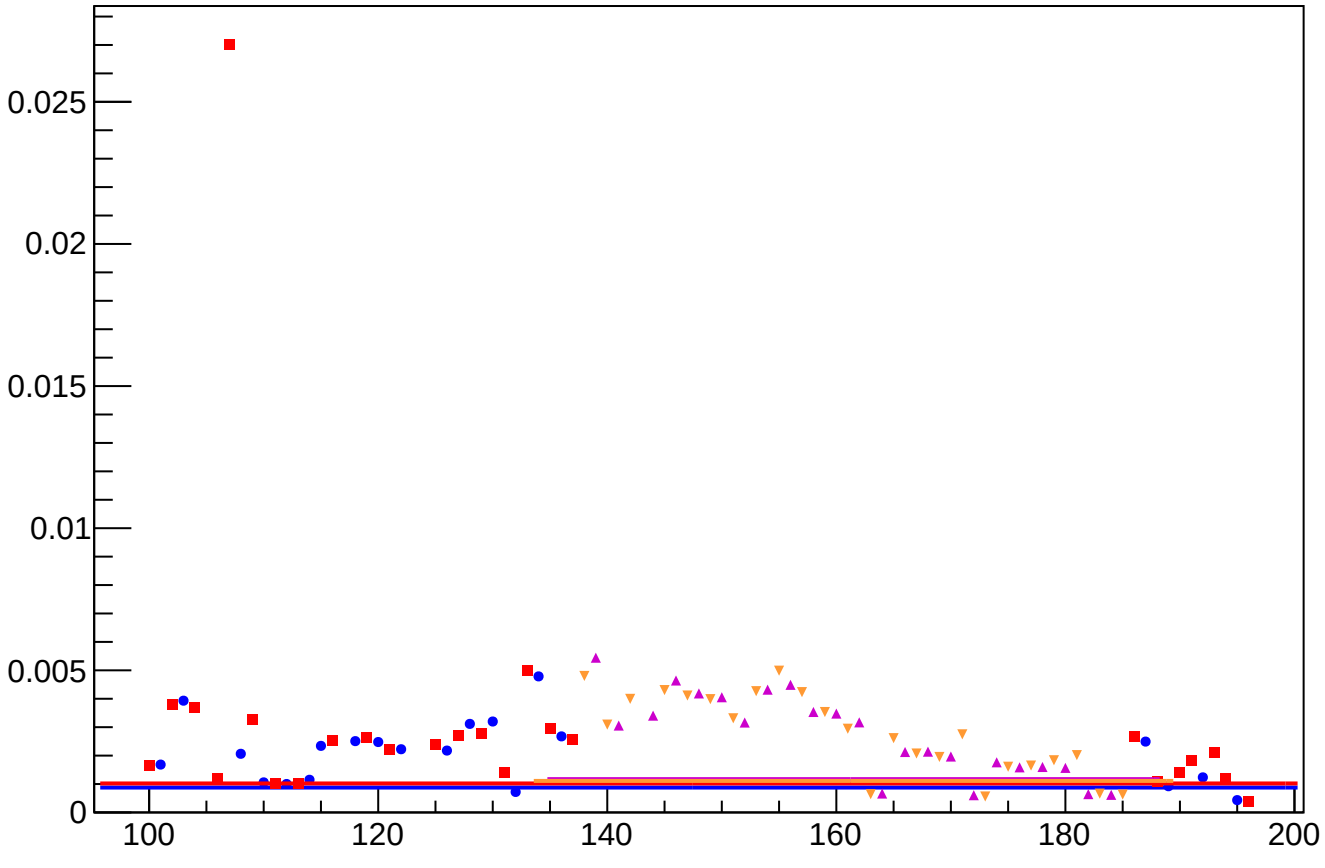
Left: -0.000+/-0.000 $\chi^2$/NDF: 79.8/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.0/44

In: -0.000+/-0.000 $\chi^2$/NDF:43.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:89.1/48

All: -0.000+/-0.000 $\chi^2$/NDF: 133.0/91




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6898635.5/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:15160045.8/23

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 8233207.8/24

Left In: 0.001+/-0.000 $\chi^2$/NDF:14252589.1/22

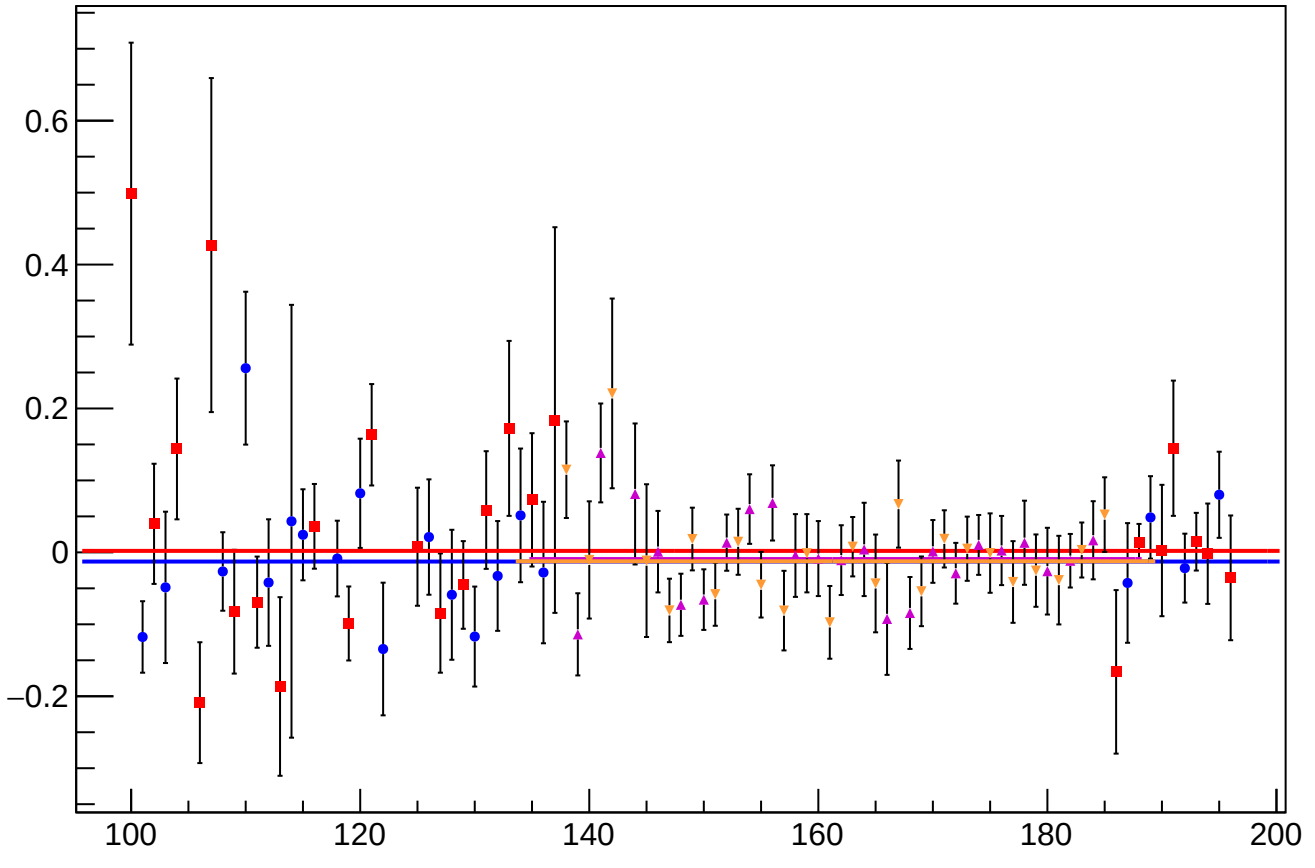
Left: 0.001+/-0.000 $\chi^2$/NDF: 29445135.6/46

Right: 0.001+/-0.000 $\chi^2$/NDF: 15276999.6/44

In: 0.001+/-0.000 $\chi^2$/NDF:21829739.1/42

Out: 0.001+/-0.000 $\chi^2$/NDF:23451582.2/48

All: 0.001+/-0.000 $\chi^2$/NDF: 45313526.6/91




Right In: -0.013+/-0.016 $\chi^2$/NDF: 21.8/19

Left Out: -0.012+/-0.010 $\chi^2$/NDF:21.9/23

Right Out: 0.002+/-0.014 $\chi^2$/NDF: 41.7/24

Left In: -0.009+/-0.010 $\chi^2$/NDF:21.9/22

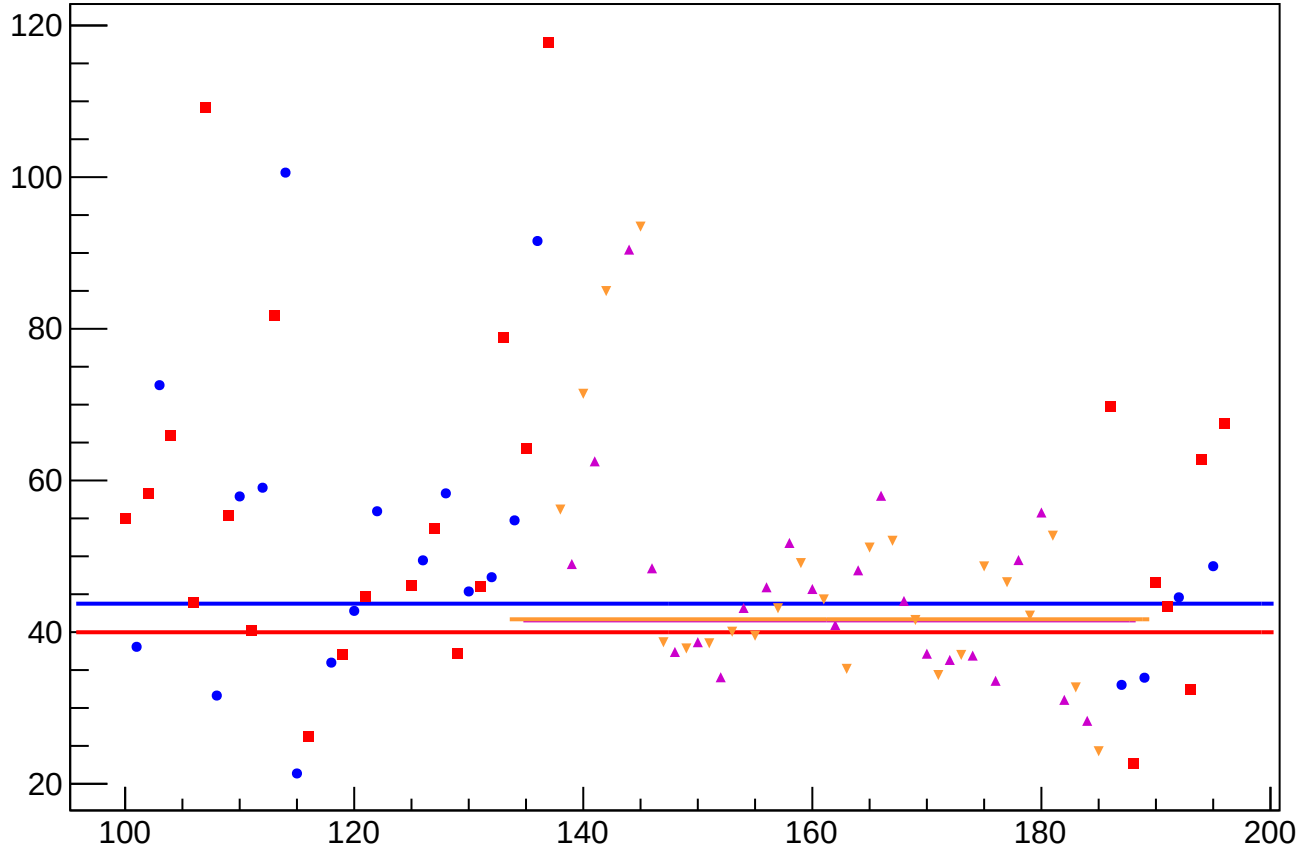
Left: -0.011+/-0.007 $\chi^2$/NDF: 43.9/46

Right: -0.004+/-0.010 $\chi^2$/NDF: 64.0/44

In: -0.010+/-0.009 $\chi^2$/NDF:43.7/42

Out: -0.007+/-0.008 $\chi^2$/NDF:64.3/48

All: -0.009+/-0.006 $\chi^2$/NDF: 108.1/91




Right In: 43.755+/-0.011 $\chi^2$/NDF: 1445467.0/19

Left Out: 41.695+/-0.007 $\chi^2$/NDF:1821753.6/23

Right Out: 39.986+/-0.010 $\chi^2$/NDF: 2931614.2/24

Left In: 41.551+/-0.007 $\chi^2$/NDF:1612941.1/22

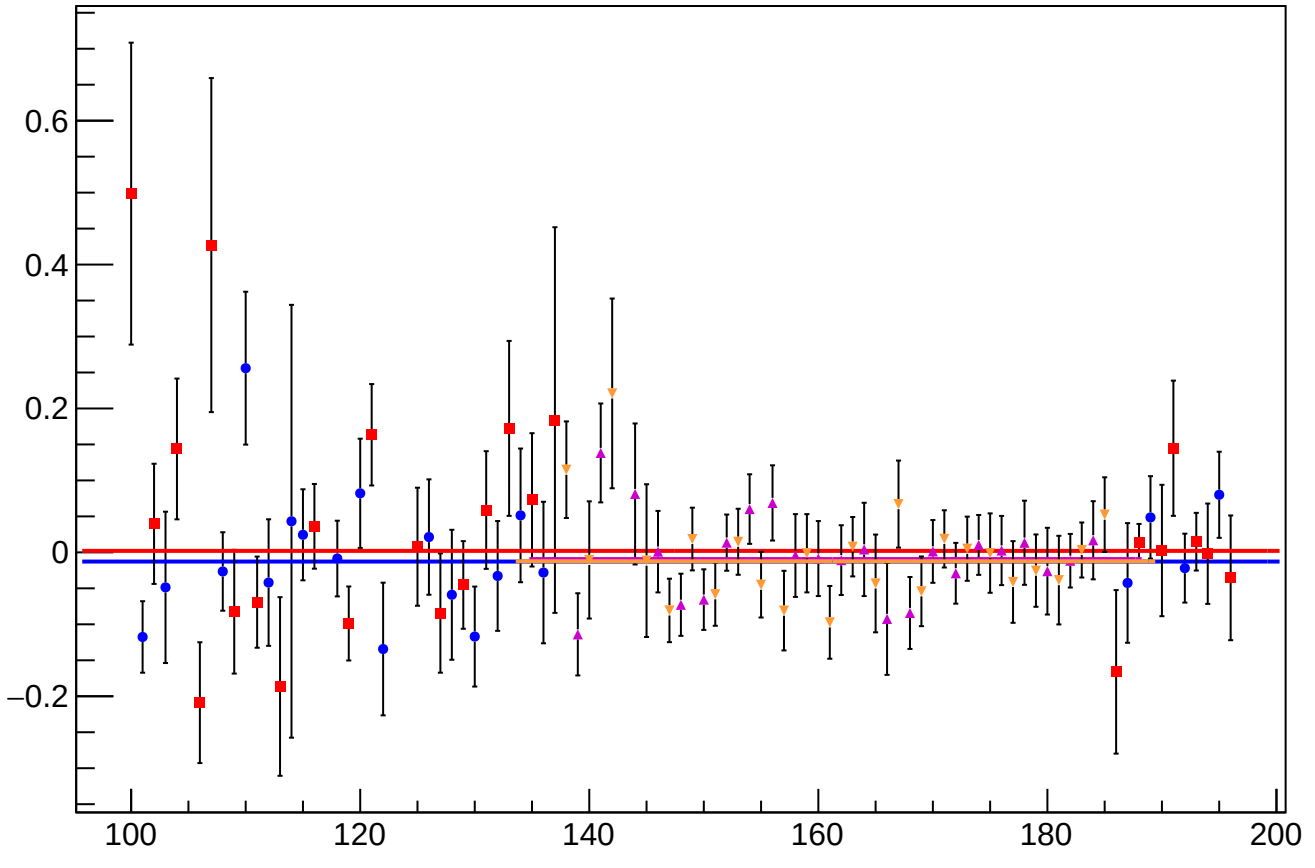
Left: 41.623+/-0.005 $\chi^2$/NDF: 3434883.2/46

Right: 41.595+/-0.007 $\chi^2$/NDF: 4442261.8/44

In: 42.224+/-0.006 $\chi^2$/NDF:3085424.1/42

Out: 41.059+/-0.006 $\chi^2$/NDF:4773087.4/48

All: 41.613+/-0.004 $\chi^2$/NDF: 7877154.7/91




Right In: -0.013+/-0.016 $\chi^2$/NDF: 21.8/19

Left Out: -0.012+/-0.010 $\chi^2$/NDF:21.9/23

Right Out: 0.002+/-0.014 $\chi^2$/NDF: 41.7/24

Left In: -0.009+/-0.010 $\chi^2$/NDF:21.9/22

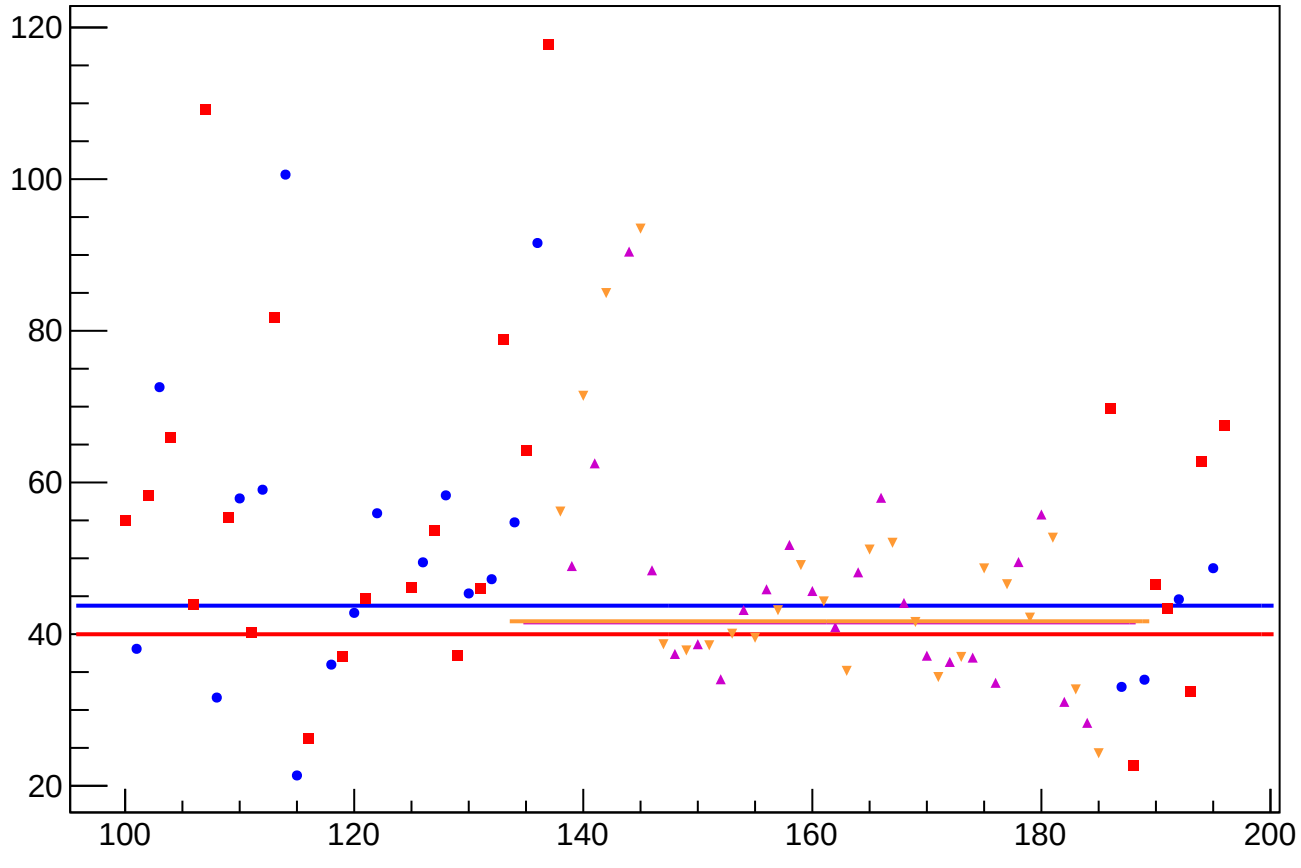
Left: -0.011+/-0.007 $\chi^2$/NDF: 43.9/46

Right: -0.004+/-0.010 $\chi^2$/NDF: 64.0/44

In: -0.010+/-0.009 $\chi^2$/NDF:43.7/42

Out: -0.007+/-0.008 $\chi^2$/NDF:64.3/48

All: -0.009+/-0.006 $\chi^2$/NDF: 108.1/91




Right In: 43.755+/-0.011 $\chi^2$/NDF: 1445467.0/19

Left Out: 41.695+/-0.007 $\chi^2$/NDF:1821753.6/23

Right Out: 39.986+/-0.010 $\chi^2$/NDF: 2931614.2/24

Left In: 41.551+/-0.007 $\chi^2$/NDF:1612941.1/22

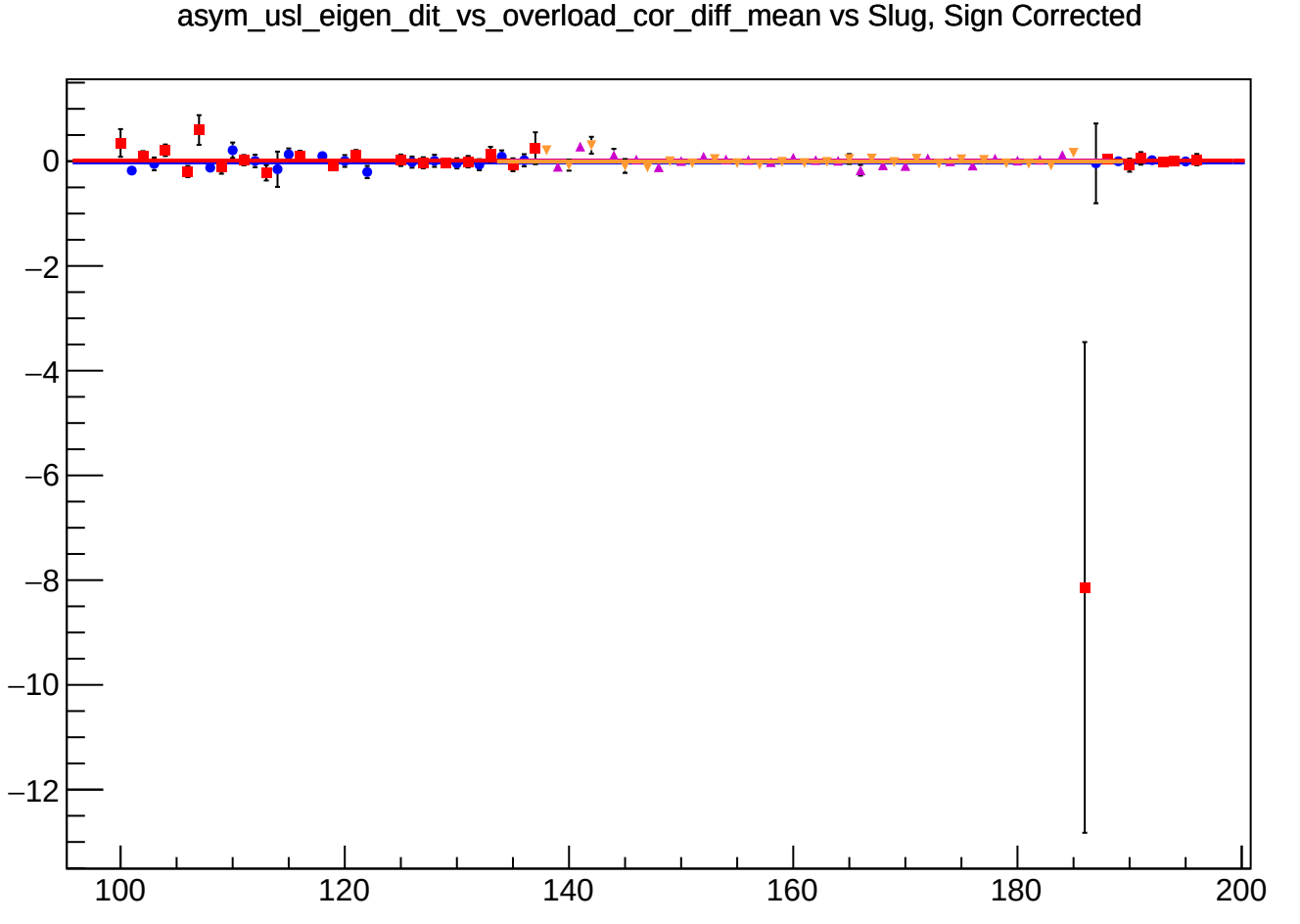
Left: 41.623+/-0.005 $\chi^2$/NDF: 3434883.2/46

Right: 41.595+/-0.007 $\chi^2$/NDF: 4442261.8/44

In: 42.224+/-0.006 $\chi^2$/NDF:3085424.1/42

Out: 41.059+/-0.006 $\chi^2$/NDF:4773087.4/48

All: 41.613+/-0.004 $\chi^2$/NDF: 7877154.7/91




Right In: -0.023+/-0.022 $\chi^2$/NDF: 18.2/19

Left Out: -0.007+/-0.015 $\chi^2$/NDF:23.7/23

Right Out: 0.013+/-0.020 $\chi^2$/NDF: 26.8/24

Left In: 0.008+/-0.015 $\chi^2$/NDF:28.1/22

Left: 0.000+/-0.011 $\chi^2$/NDF: 52.2/46

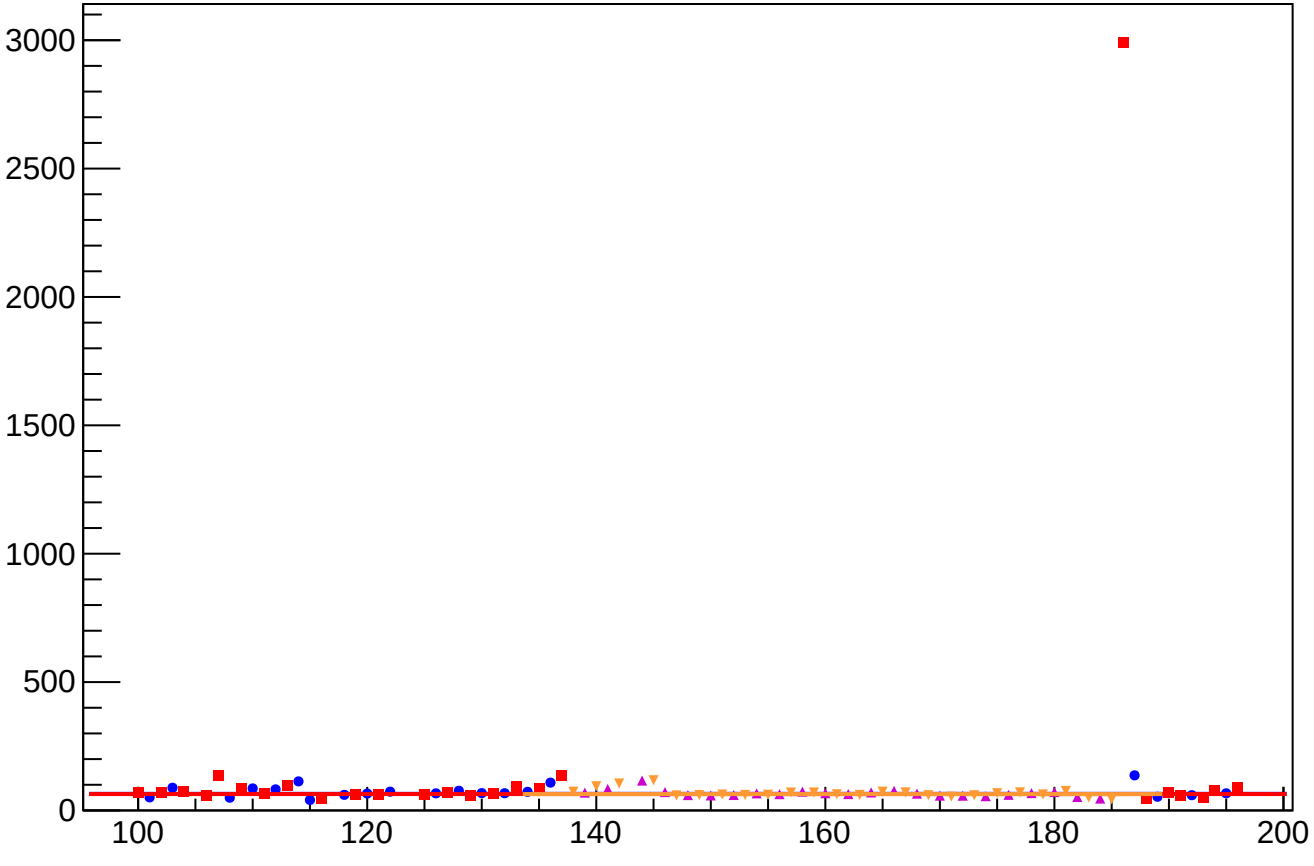
Right: -0.003+/-0.015 $\chi^2$/NDF: 46.5/44

In: -0.002+/-0.013 $\chi^2$/NDF:47.7/42

Out: 0.000+/-0.012 $\chi^2$/NDF:51.1/48

All: -0.001+/-0.009 $\chi^2$/NDF: 98.8/91

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 64.721+/-0.016 $\chi^2$/NDF: 846961.5/19

Left Out: 63.779+/-0.011 $\chi^2$/NDF:1078810.5/23

Right Out: 63.806+/-0.014 $\chi^2$/NDF: 1973599.1/24

Left In: 64.036+/-0.011 $\chi^2$/NDF:838784.5/22

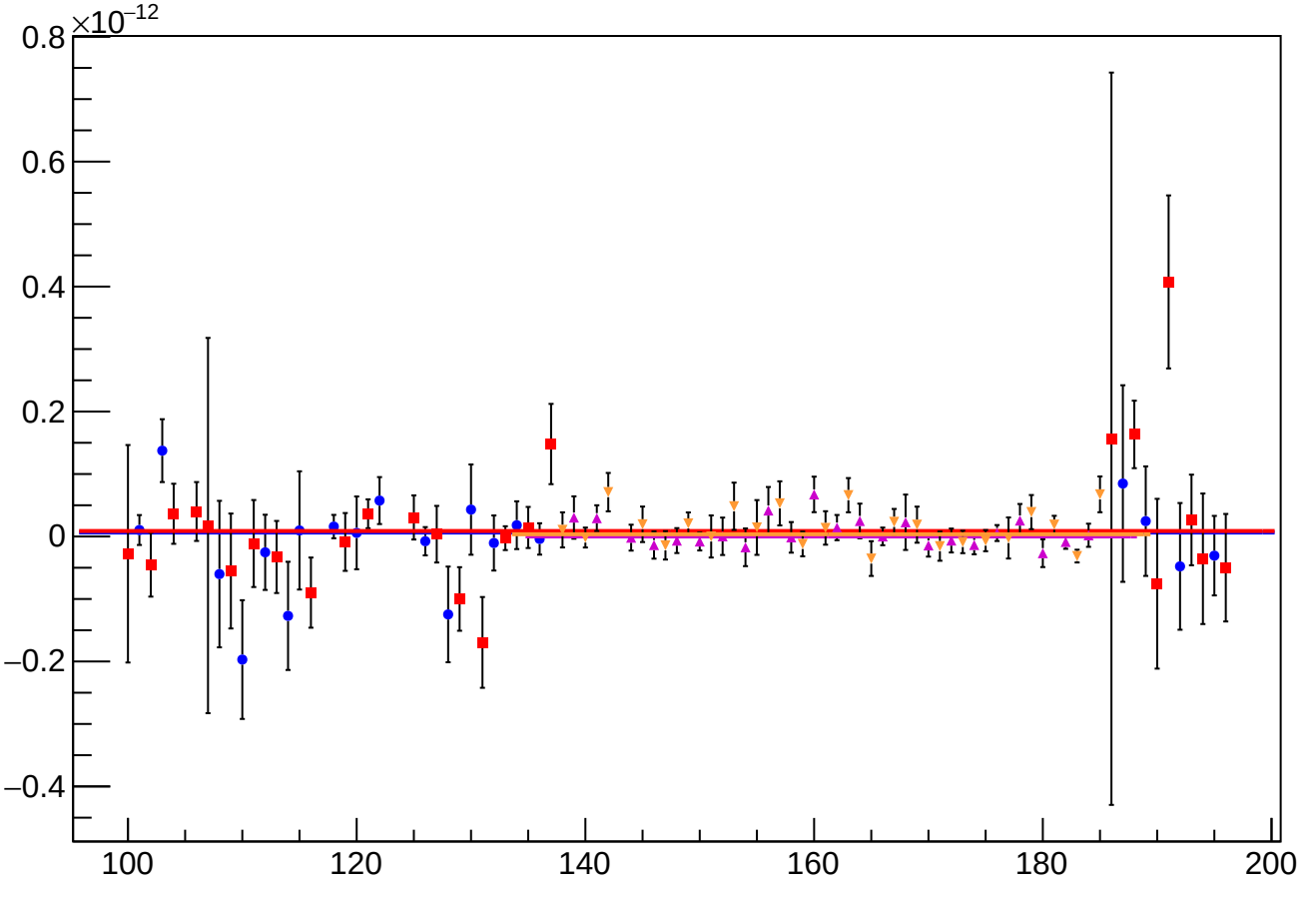
Left: 63.907+/-0.008 $\chi^2$/NDF: 1917872.4/46

Right: 64.221+/-0.011 $\chi^2$/NDF: 2822391.0/44

In: 64.258+/-0.009 $\chi^2$/NDF:1687014.4/42

Out: 63.789+/-0.009 $\chi^2$/NDF:3052411.9/48

All: 64.015+/-0.006 $\chi^2$/NDF: 4740834.4/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:40.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 41.4/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.1/22

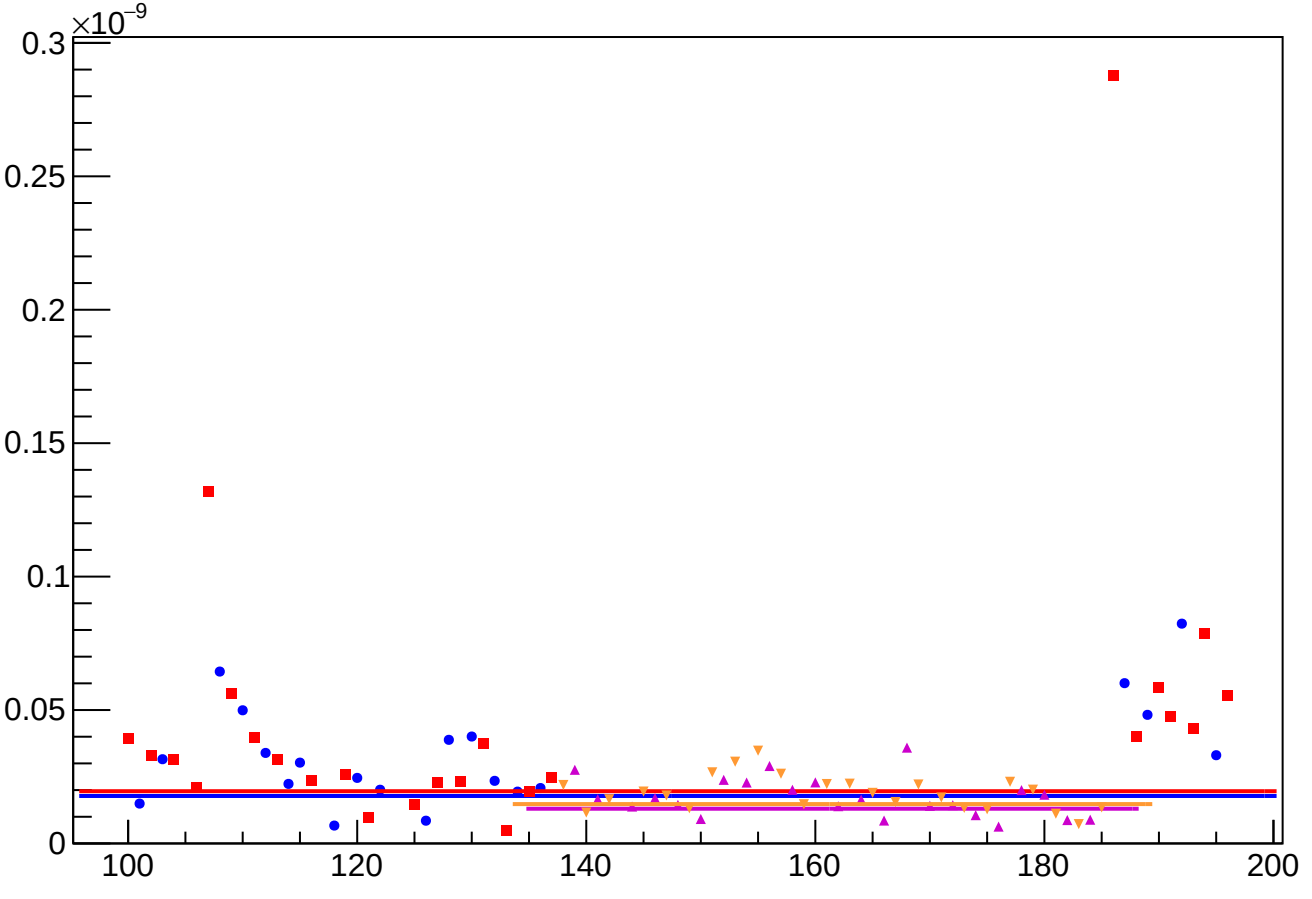
Left: 0.000+/-0.000 $\chi^2$/NDF: 58.0/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 62.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:38.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:82.2/48

All: 0.000+/-0.000 $\chi^2$/NDF: 121.5/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3699069.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3531388.4/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5063046.0/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:3925910.3/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 7627228.5/46

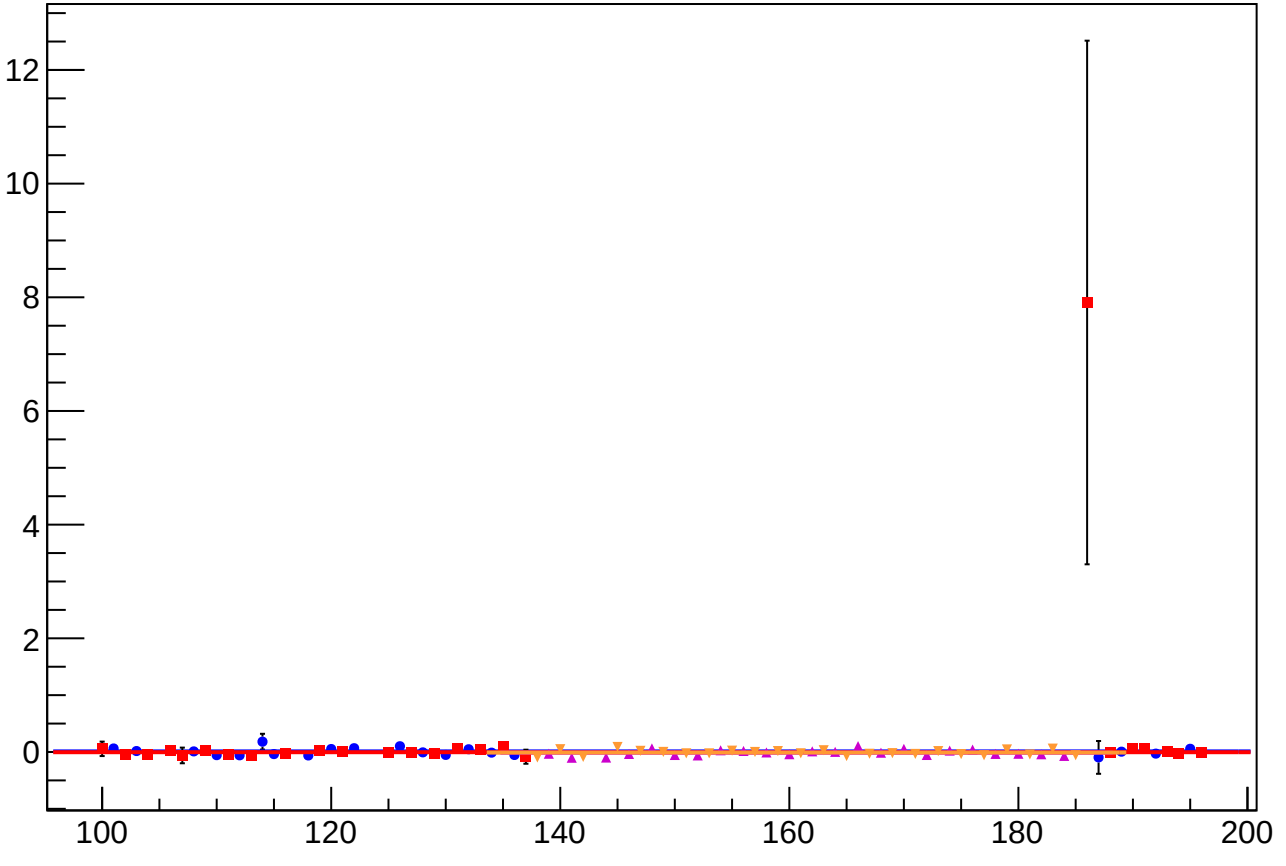
Right: 0.000+/-0.000 $\chi^2$/NDF: 8799601.1/44

In: 0.000+/-0.000 $\chi^2$/NDF:8093316.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9025353.7/48

All: 0.000+/-0.000 $\chi^2$/NDF: 17336739.7/91

asym_usl_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.012 $\chi^2$/NDF: 17.8/19

Left Out: -0.010+/-0.009 $\chi^2$/NDF:19.4/23

Right Out: -0.004+/-0.010 $\chi^2$/NDF: 16.0/24

Left In: -0.011+/-0.010 $\chi^2$/NDF:23.3/22

Left: -0.010+/-0.007 $\chi^2$/NDF: 42.7/46

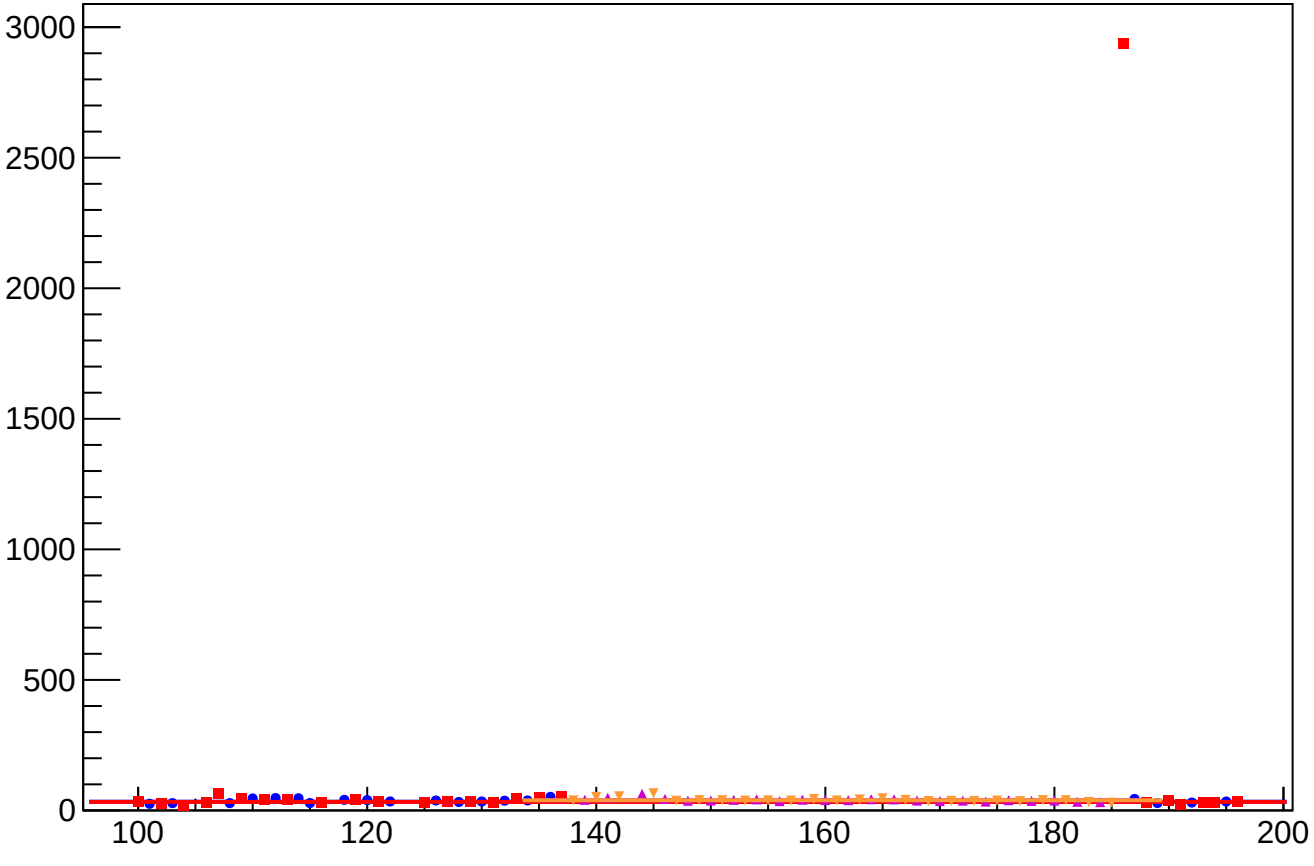
Right: 0.003+/-0.008 $\chi^2$/NDF: 34.7/44

In: -0.002+/-0.007 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:35.6/48

All: -0.005+/-0.005 $\chi^2$/NDF: 79.0/91

asym_usl_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 33.394+/-0.008 $\chi^2$/NDF: 688757.9/19

Left Out: 38.972+/-0.007 $\chi^2$/NDF:624525.1/23

Right Out: 32.682+/-0.007 $\chi^2$/NDF: 1805432.0/24

Left In: 39.179+/-0.007 $\chi^2$/NDF:521827.1/22

Left: 39.074+/-0.005 $\chi^2$/NDF: 1146823.3/46

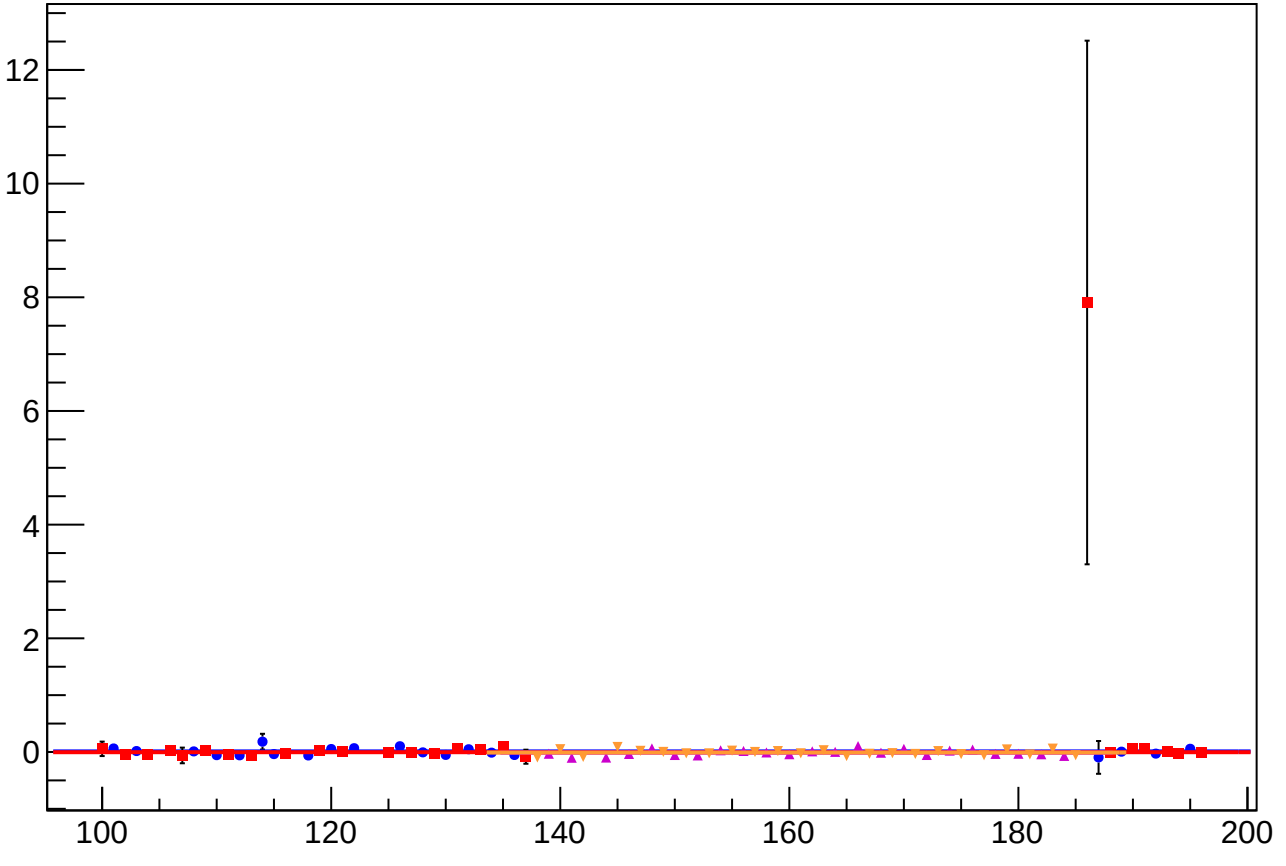
Right: 33.002+/-0.005 $\chi^2$/NDF: 2498398.6/44

In: 36.816+/-0.005 $\chi^2$/NDF:1509640.3/42

Out: 36.122+/-0.005 $\chi^2$/NDF:2830251.9/48

All: 36.452+/-0.004 $\chi^2$/NDF: 4349246.2/91

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.012 $\chi^2$/NDF: 17.8/19

Left Out: -0.010+/-0.009 $\chi^2$/NDF:19.4/23

Right Out: -0.004+/-0.010 $\chi^2$/NDF: 16.0/24

Left In: -0.011+/-0.010 $\chi^2$/NDF:23.3/22

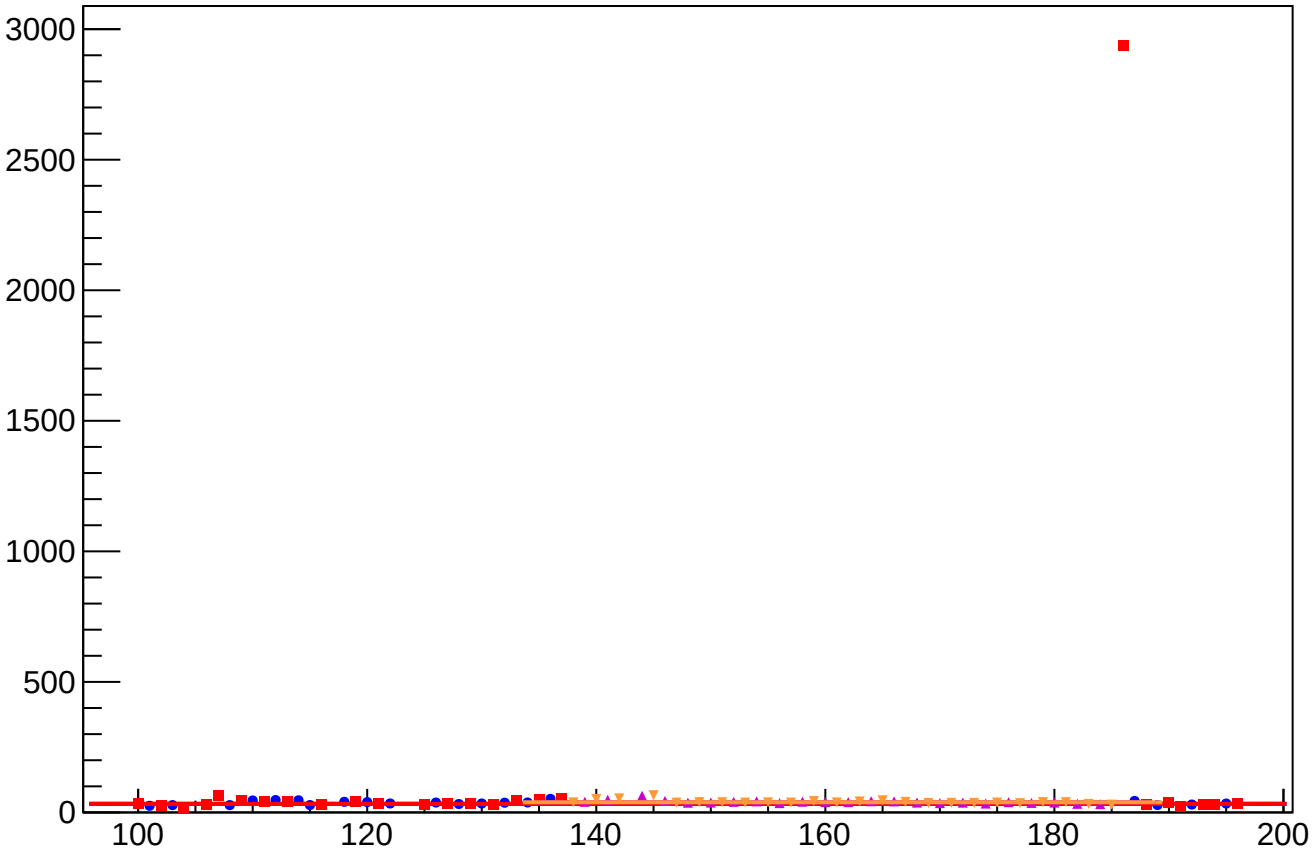
Left: -0.010+/-0.007 $\chi^2$/NDF: 42.7/46

Right: 0.003+/-0.008 $\chi^2$/NDF: 34.7/44

In: -0.002+/-0.007 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:35.6/48

All: -0.005+/-0.005 $\chi^2$/NDF: 79.0/91




Right In: 33.394+/-0.008 $\chi^2$/NDF: 688757.9/19

Left Out: 38.972+/-0.007 $\chi^2$/NDF:624525.1/23

Right Out: 32.682+/-0.007 $\chi^2$/NDF: 1805432.0/24

Left In: 39.179+/-0.007 $\chi^2$/NDF:521827.1/22

Left: 39.074+/-0.005 $\chi^2$/NDF: 1146823.3/46

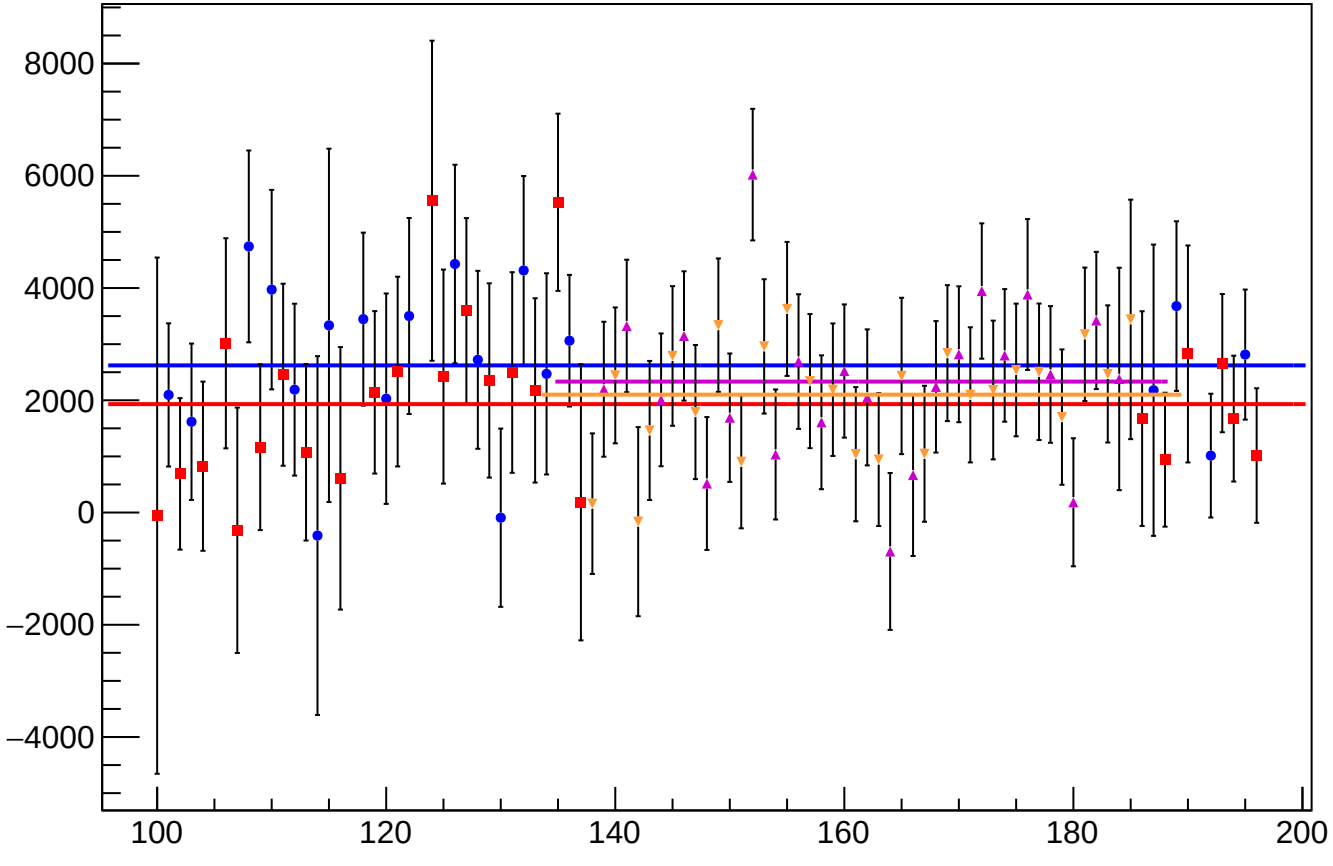
Right: 33.002+/-0.005 $\chi^2$/NDF: 2498398.6/44

In: 36.816+/-0.005 $\chi^2$/NDF:1509640.3/42

Out: 36.122+/-0.005 $\chi^2$/NDF:2830251.9/48

All: 36.452+/-0.004 $\chi^2$/NDF: 4349246.2/91

# reg_asym_usr_mean vs Slug, Sign Corrected




Right In: 2621.820+/-351.222 $\chi^2$/NDF: 12.3/19

Left Out: 2100.398+/-248.306 $\chi^2$/NDF:13.8/24

Right Out: 1931.642+/-323.982 $\chi^2$/NDF: 14.6/24

Left In: 2332.954+/-255.284 $\chi^2$/NDF:29.5/22

Left: 2213.454+/-177.995 $\chi^2$/NDF: 43.7/47

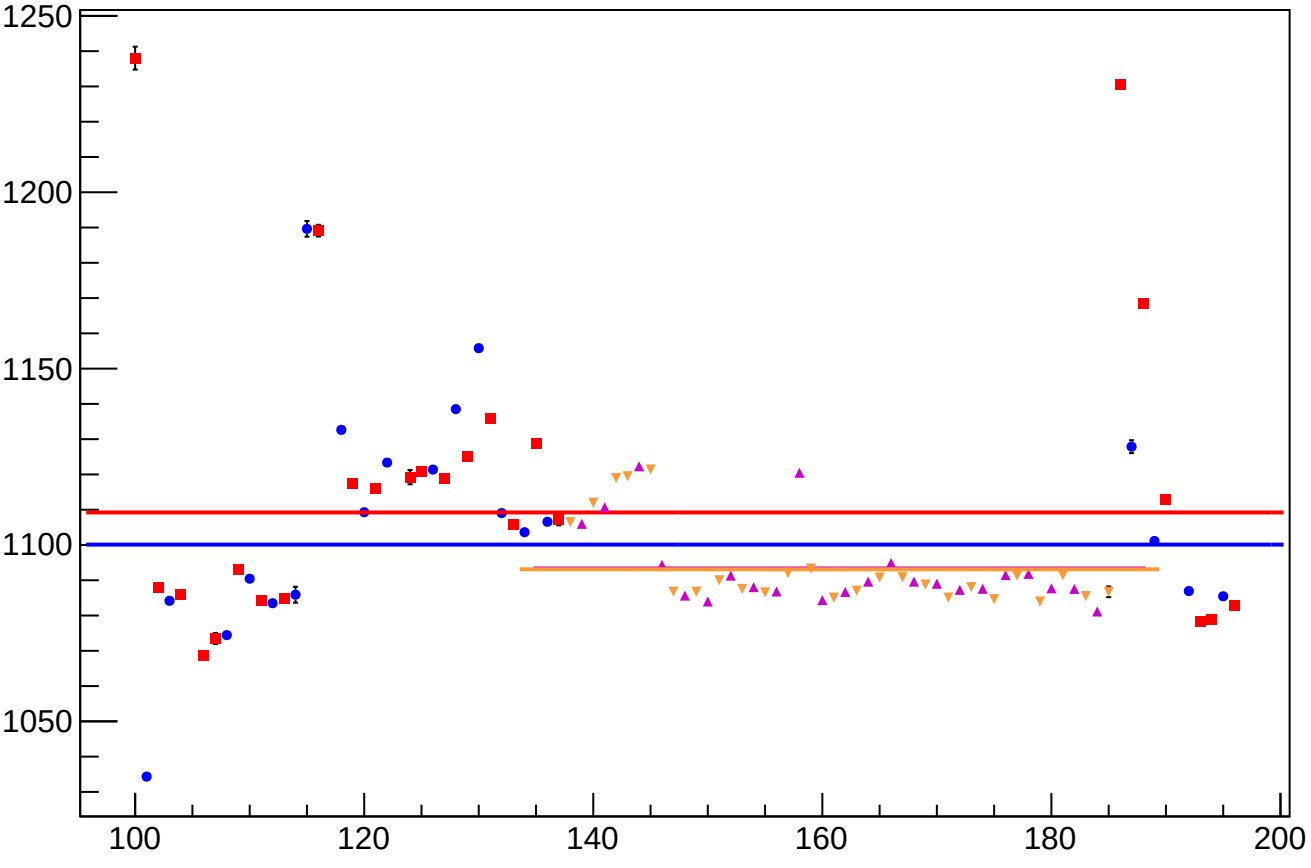
Right: 2248.933+/-238.139 $\chi^2$/NDF: 28.9/44

In: 2432.810+/-206.500 $\chi^2$/NDF:42.2/42

Out: 2037.952+/-197.081 $\chi^2$/NDF:28.6/49

All: 2226.171+/-142.571 $\chi^2$/NDF: 72.7/92

# reg_asym_usr_rms vs Slug, Sign Corrected




Right In: 1100.106+/-0.248 $\chi^2$/NDF: 14156.8/19

Left Out: 1093.102+/-0.176 $\chi^2$/NDF:3983.2/24

Right Out: 1109.225+/-0.229 $\chi^2$/NDF: 25405.1/24

Left In: 1093.338+/-0.181 $\chi^2$/NDF:3725.7/22

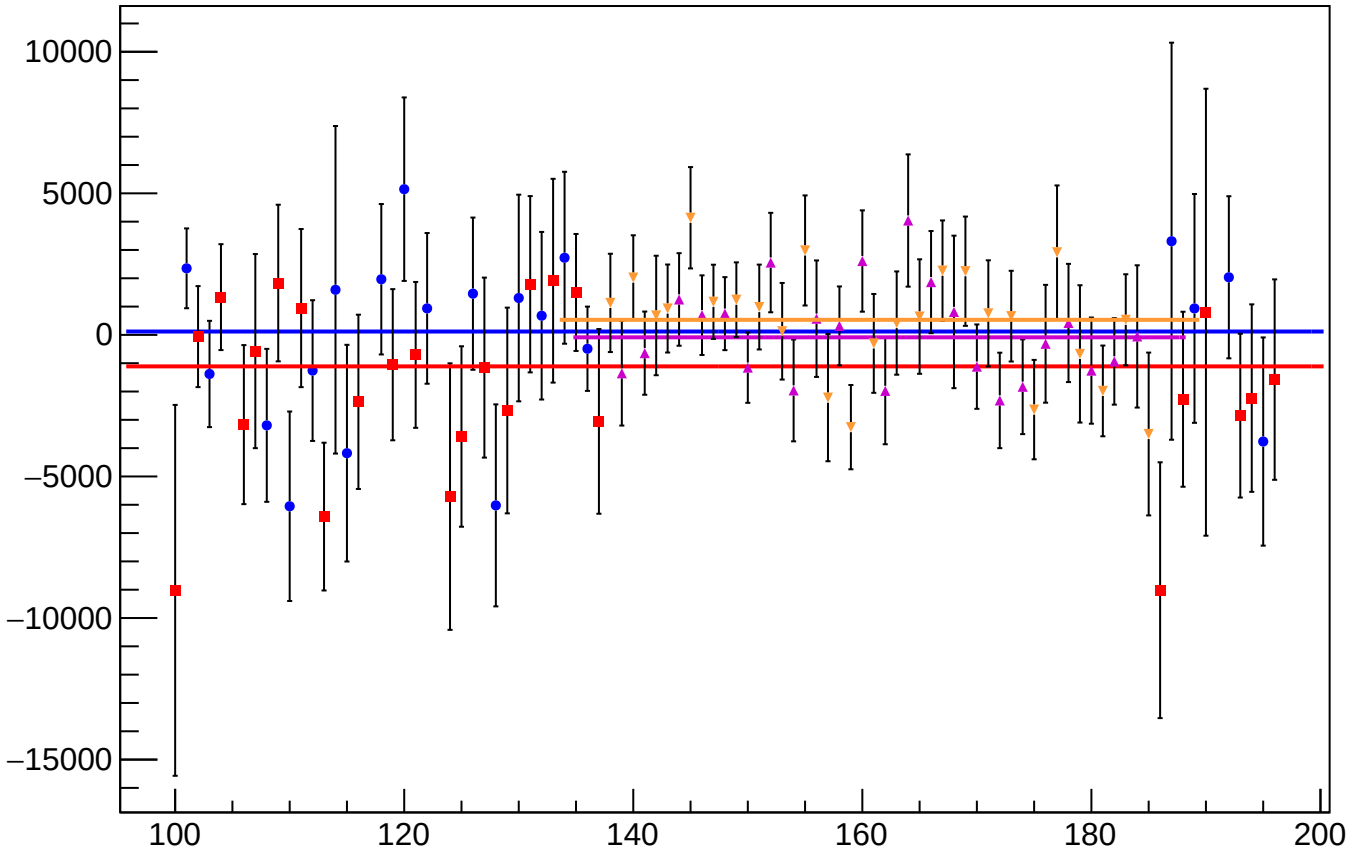
Left: 1093.217+/-0.126 $\chi^2$/NDF: 7709.8/47

Right: 1105.033+/-0.168 $\chi^2$/NDF: 40290.2/44

In: 1095.678+/-0.146 $\chi^2$/NDF:18368.4/42

Out: 1099.068+/-0.139 $\chi^2$/NDF:32508.5/49

All: 1097.452+/-0.101 $\chi^2$/NDF: 51159.0/92




Right In: 119.336+/-587.719 $\chi^2$/NDF: 18.7/19

Left Out: 532.982+/-347.223 $\chi^2$/NDF:26.4/24

Right Out: -1111.955+/-584.706 $\chi^2$/NDF: 19.1/24

Left In: -85.329+/-353.933 $\chi^2$/NDF:18.1/22

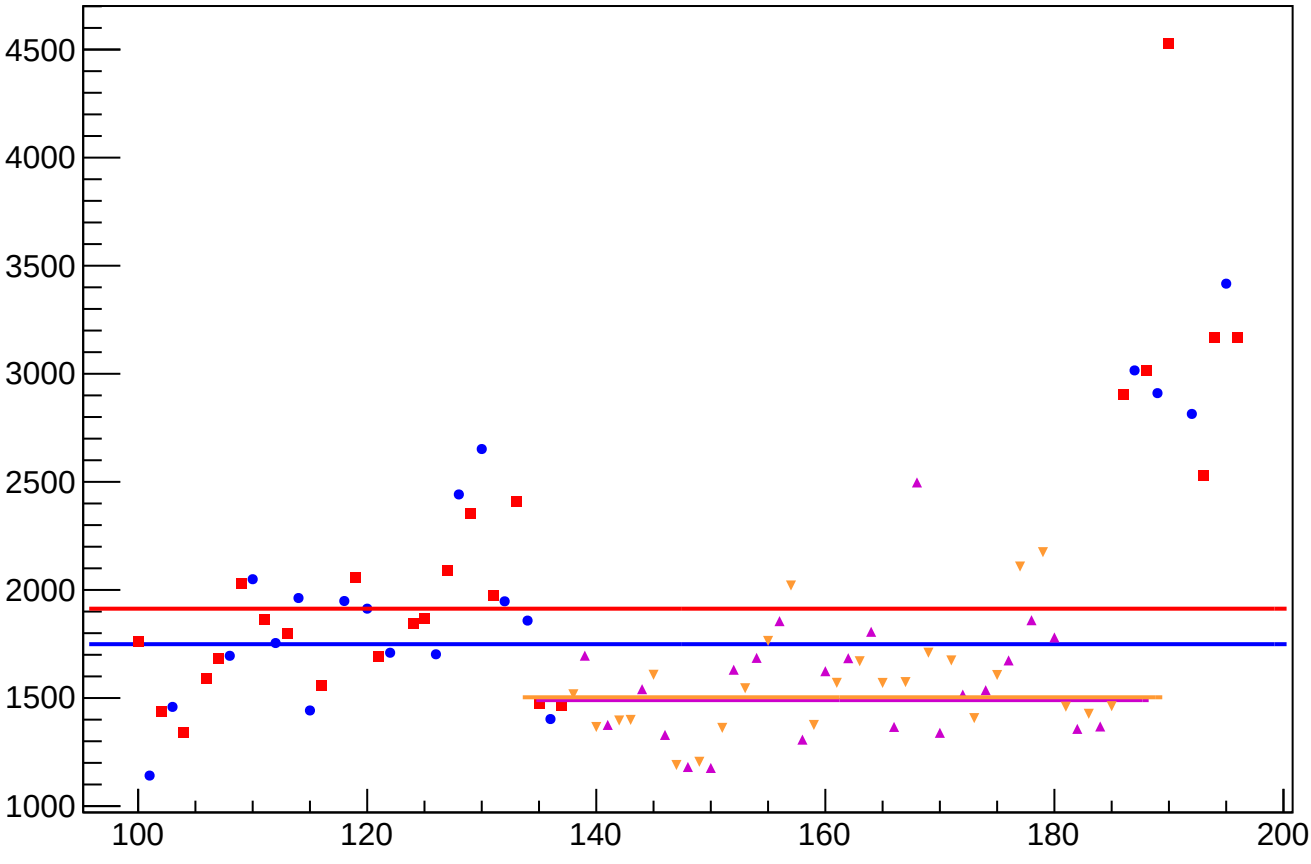
Left: 229.744+/-247.862 $\chi^2$/NDF: 46.1/47

Right: -499.473+/-414.511 $\chi^2$/NDF: 40.0/44

In: -30.859+/-303.199 $\chi^2$/NDF:36.9/42

Out: 104.133+/-298.549 $\chi^2$/NDF:51.4/49

All: 37.680+/-212.731 $\chi^2$/NDF: 88.4/92




Right In: 1749.111+/-0.416 $\chi^2$/NDF: 1706149.9/19

Left Out: 1503.437+/-0.246 $\chi^2$/NDF:799670.9/24

Right Out: 1913.315+/-0.413 $\chi^2$/NDF: 1825740.4/24

Left In: 1490.314+/-0.250 $\chi^2$/NDF:968221.5/22

Left: 1497.001+/-0.175 $\chi^2$/NDF: 1769293.4/47

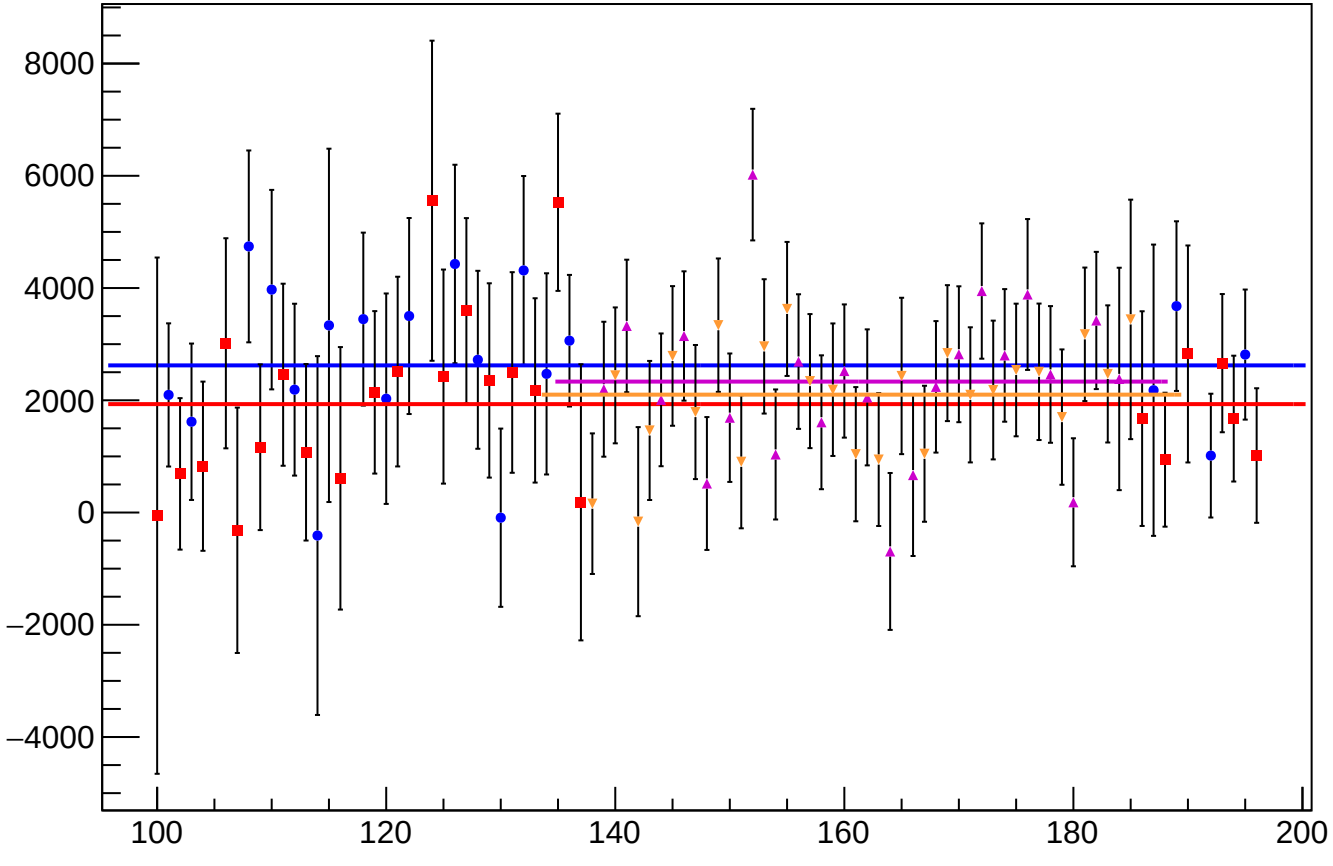
Right: 1831.635+/-0.293 $\chi^2$/NDF: 3610351.3/44

In: 1559.191+/-0.214 $\chi^2$/NDF:2958960.1/42

Out: 1610.296+/-0.211 $\chi^2$/NDF:3351982.3/49

All: 1585.138+/-0.150 $\chi^2$/NDF: 6339790.9/92

# cor_asym_usr_mean vs Slug, Sign Corrected




Right In: 2621.820+/-351.222 $\chi^2$/NDF: 12.3/19

Left Out: 2100.398+/-248.306 $\chi^2$/NDF:13.8/24

Right Out: 1931.642+/-323.982 $\chi^2$/NDF: 14.6/24

Left In: 2332.954+/-255.284 $\chi^2$/NDF:29.5/22

Left: 2213.454+/-177.995 $\chi^2$/NDF: 43.7/47

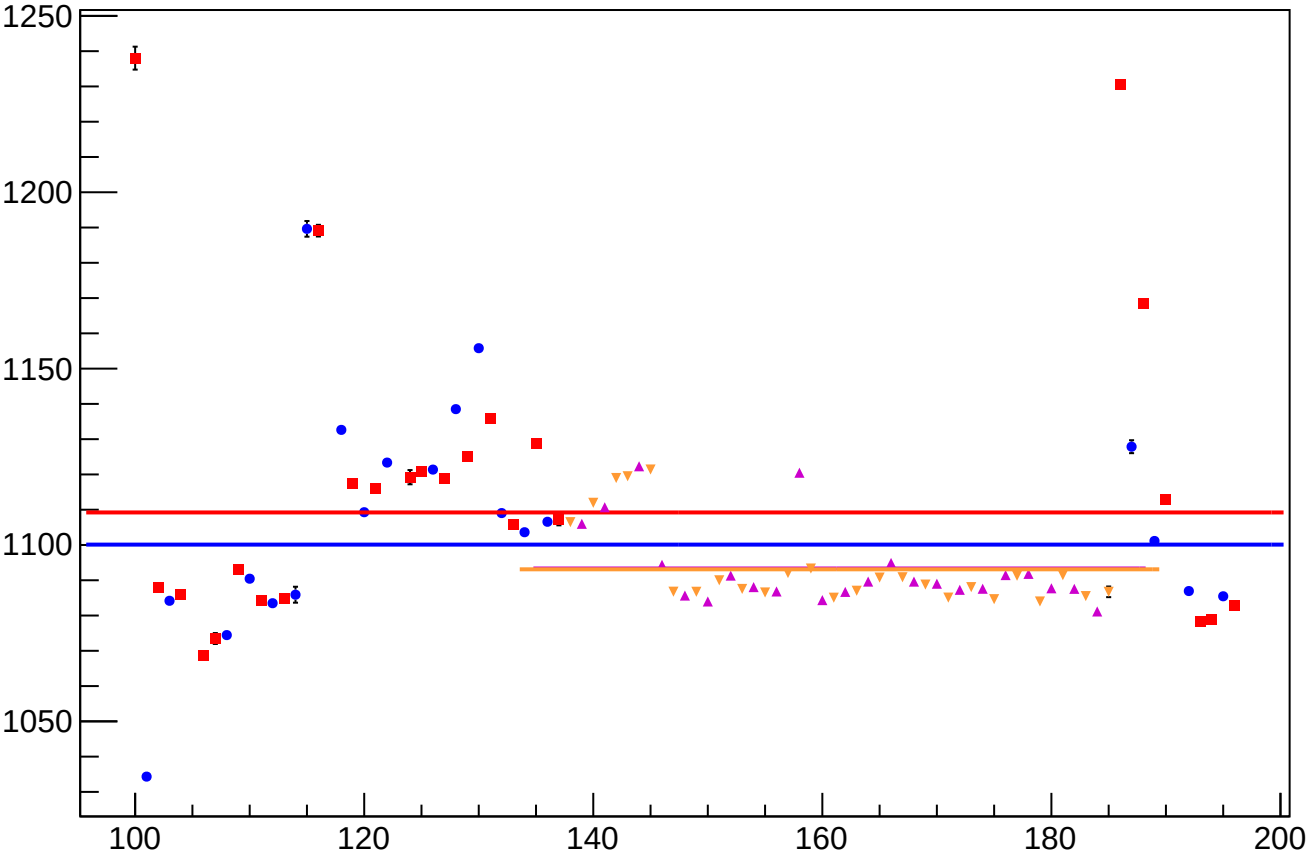
Right: 2248.933+/-238.139 $\chi^2$/NDF: 28.9/44

In: 2432.810+/-206.500 $\chi^2$/NDF:42.2/42

Out: 2037.952+/-197.081 $\chi^2$/NDF:28.6/49

All: 2226.171+/-142.571 $\chi^2$/NDF: 72.7/92

# cor_asym_usr_rms vs Slug, Sign Corrected




Right In: 1100.106+/-0.248 $\chi^2$/NDF: 14156.8/19

Left Out: 1093.102+/-0.176 $\chi^2$/NDF:3983.2/24

Right Out: 1109.225+/-0.229 $\chi^2$/NDF: 25405.1/24

Left In: 1093.338+/-0.181 $\chi^2$/NDF:3725.7/22

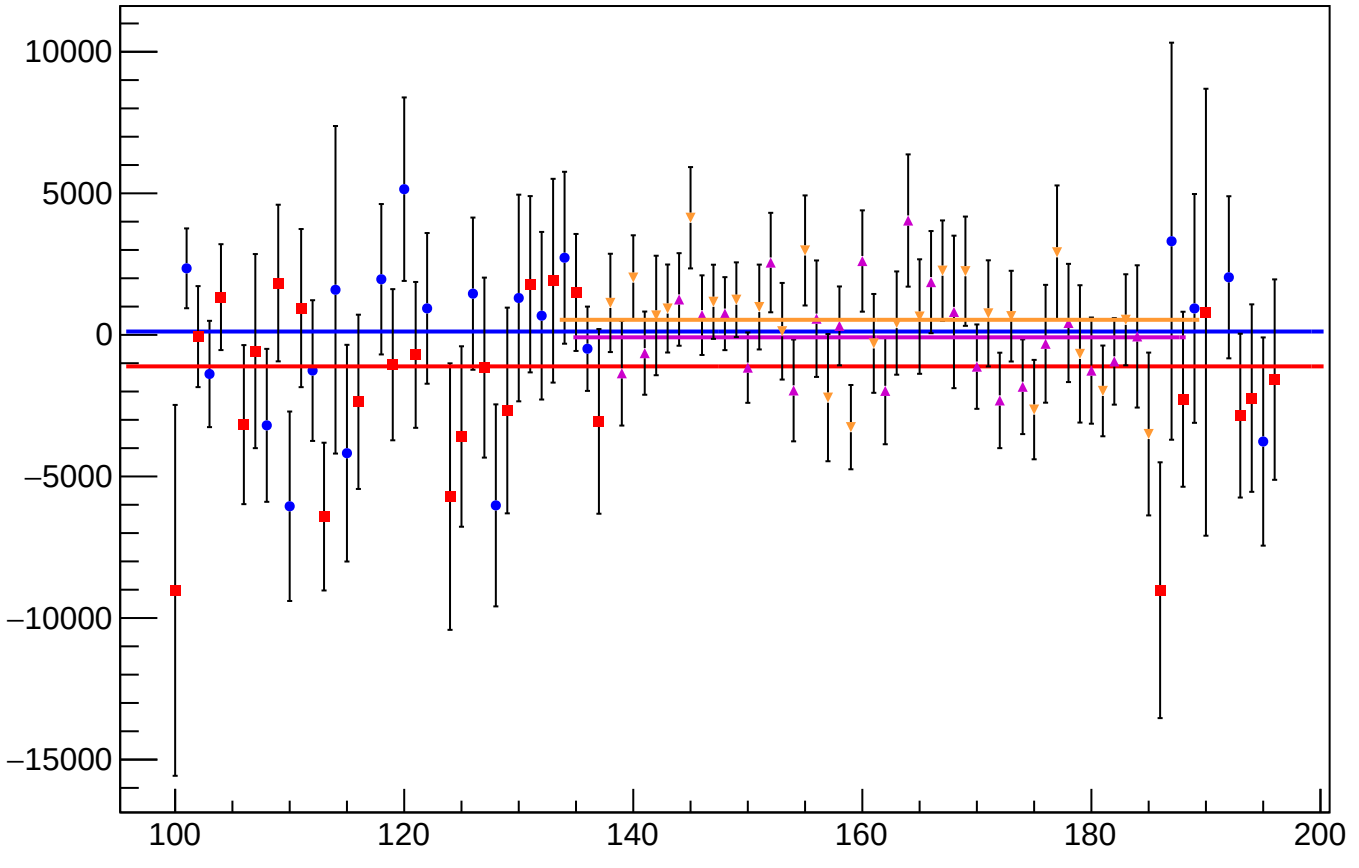
Left: 1093.217+/-0.126 $\chi^2$/NDF: 7709.8/47

Right: 1105.033+/-0.168 $\chi^2$/NDF: 40290.2/44

In: 1095.678+/-0.146 $\chi^2$/NDF:18368.4/42

Out: 1099.068+/-0.139 $\chi^2$/NDF:32508.5/49

All: 1097.452+/-0.101 $\chi^2$/NDF: 51159.0/92




Right In: 119.336+/-587.719 $\chi^2$/NDF: 18.7/19

Left Out: 532.982+/-347.223 $\chi^2$/NDF:26.4/24

Right Out: -1111.955+/-584.706 $\chi^2$/NDF: 19.1/24

Left In: -85.329+/-353.933 $\chi^2$/NDF:18.1/22

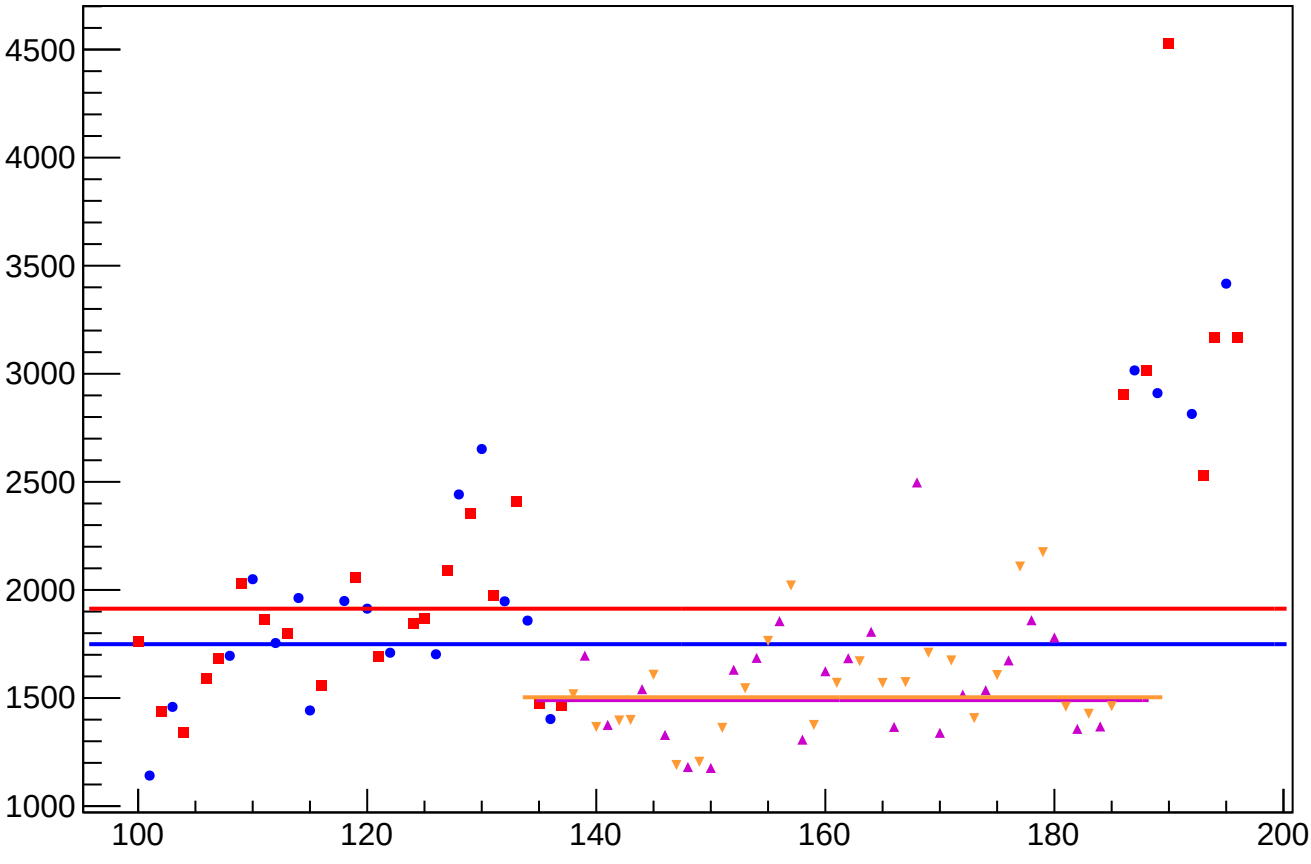
Left: 229.744+/-247.862 $\chi^2$/NDF: 46.1/47

Right: -499.473+/-414.511 $\chi^2$/NDF: 40.0/44

In: -30.859+/-303.199 $\chi^2$/NDF:36.9/42

Out: 104.133+/-298.549 $\chi^2$/NDF:51.4/49

All: 37.680+/-212.731 $\chi^2$/NDF: 88.4/92




Right In: 1749.111+/-0.416 $\chi^2$/NDF: 1706149.9/19

Left Out: 1503.437+/-0.246 $\chi^2$/NDF:799670.9/24

Right Out: 1913.315+/-0.413 $\chi^2$/NDF: 1825740.4/24

Left In: 1490.314+/-0.250 $\chi^2$/NDF:968221.5/22

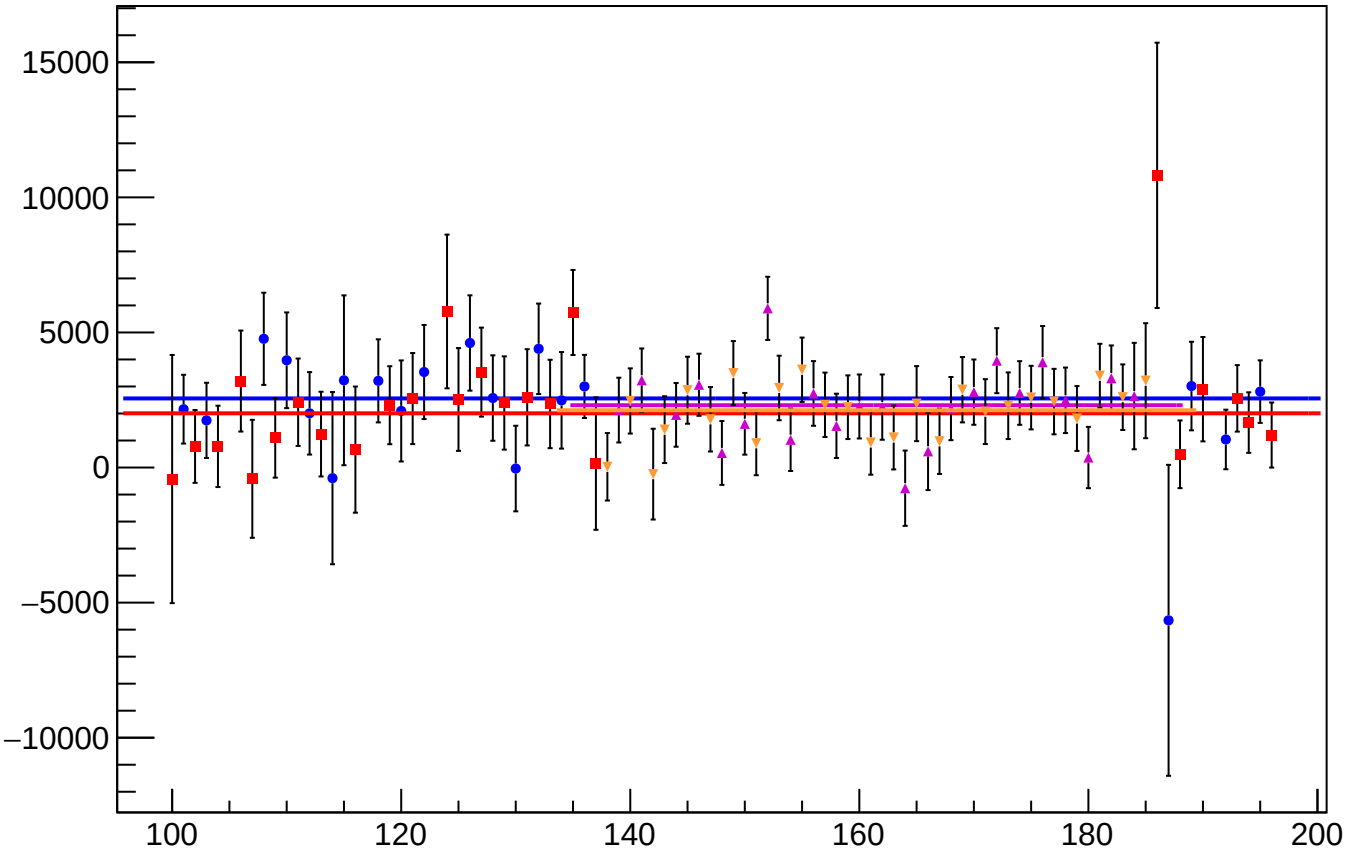
Left: 1497.001+/-0.175 $\chi^2$/NDF: 1769293.4/47

Right: 1831.635+/-0.293 $\chi^2$/NDF: 3610351.3/44

In: 1559.191+/-0.214 $\chi^2$/NDF:2958960.1/42

Out: 1610.296+/-0.211 $\chi^2$/NDF:3351982.3/49

All: 1585.138+/-0.150 $\chi^2$/NDF: 6339790.9/92




Right In: 2557.562+/-354.504 $\chi^2$/NDF: 13.8/19

Left Out: 2119.973+/-247.544 $\chi^2$/NDF:15.1/24

Right Out: 2007.241+/-328.659 $\chi^2$/NDF: 19.3/24

Left In: 2305.411+/-254.497 $\chi^2$/NDF:28.5/22

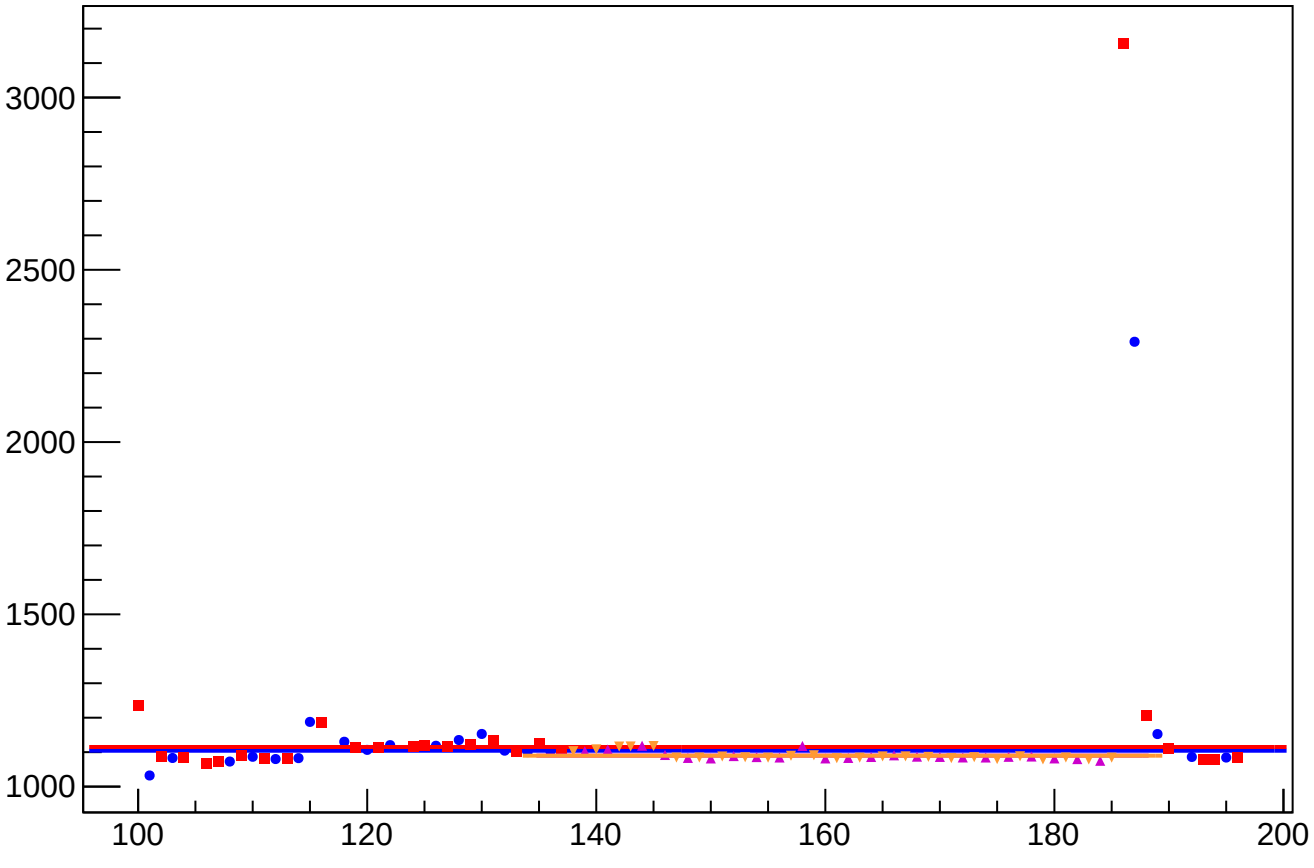
Left: 2210.124+/-177.447 $\chi^2$/NDF: 43.9/47

Right: 2261.611+/-241.016 $\chi^2$/NDF: 34.4/44

In: 2391.167+/-206.739 $\chi^2$/NDF:42.6/42

Out: 2079.169+/-197.731 $\chi^2$/NDF:34.5/49

All: 2228.223+/-142.896 $\chi^2$/NDF: 78.3/92




Right In: 1104.140+/-0.251 $\chi^2$/NDF: 101224.7/19

Left Out: 1089.744+/-0.175 $\chi^2$/NDF:4057.6/24

Right Out: 1114.955+/-0.232 $\chi^2$/NDF: 371175.5/24

Left In: 1089.964+/-0.180 $\chi^2$/NDF:3896.0/22

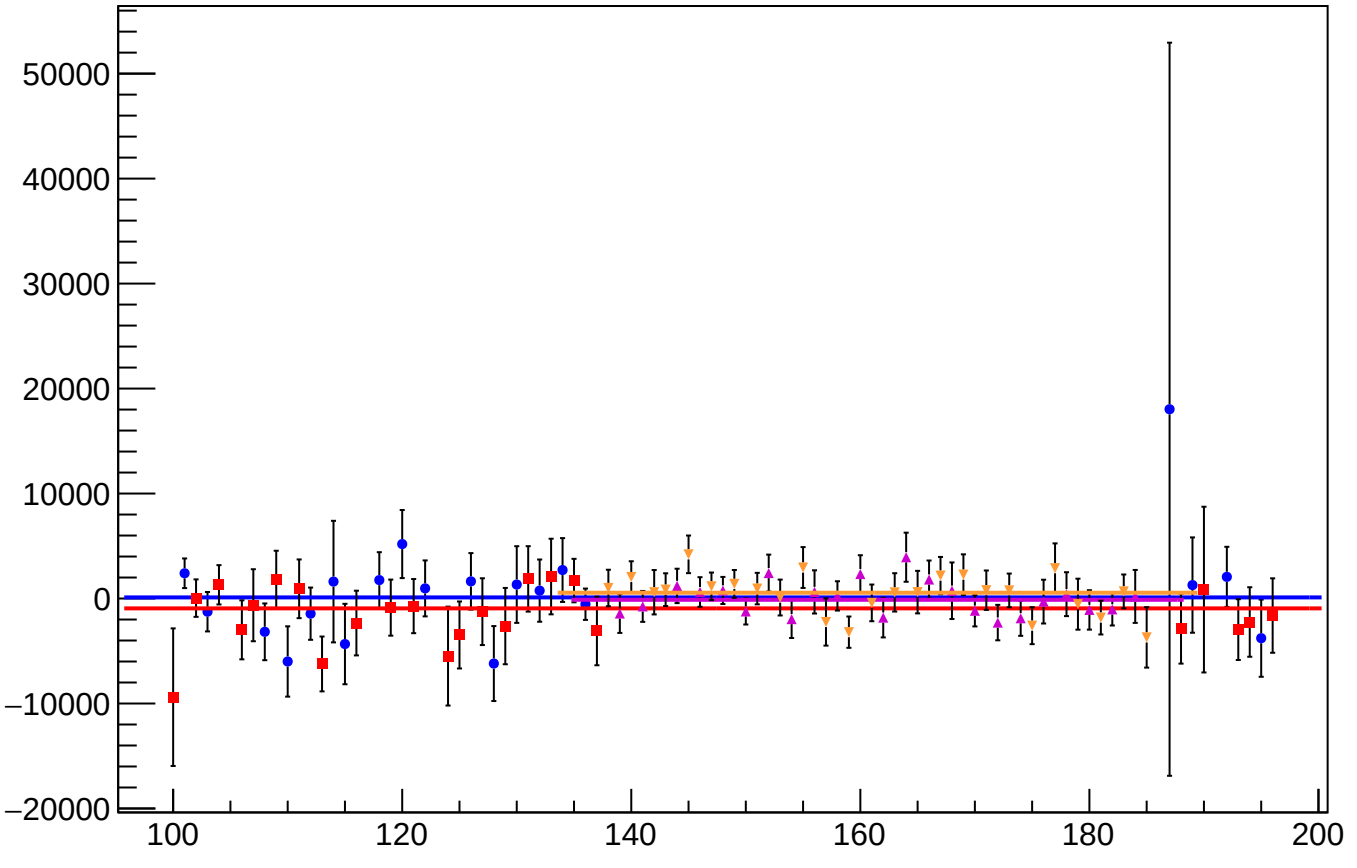
Left: 1089.851+/-0.125 $\chi^2$/NDF: 7954.4/47

Right: 1109.956+/-0.170 $\chi^2$/NDF: 473401.2/44

In: 1094.785+/-0.146 $\chi^2$/NDF:107231.1/42

Out: 1098.869+/-0.140 $\chi^2$/NDF:382742.3/49

All: 1096.918+/-0.101 $\chi^2$/NDF: 490381.0/92




Right In: 106.384+/-591.705 $\chi^2$/NDF: 19.1/19

Left Out: 553.759+/-347.813 $\chi^2$/NDF:26.1/24

Right Out: -938.583+/-591.698 $\chi^2$/NDF: 16.1/23

Left In: -121.420+/-354.540 $\chi^2$/NDF:17.1/22

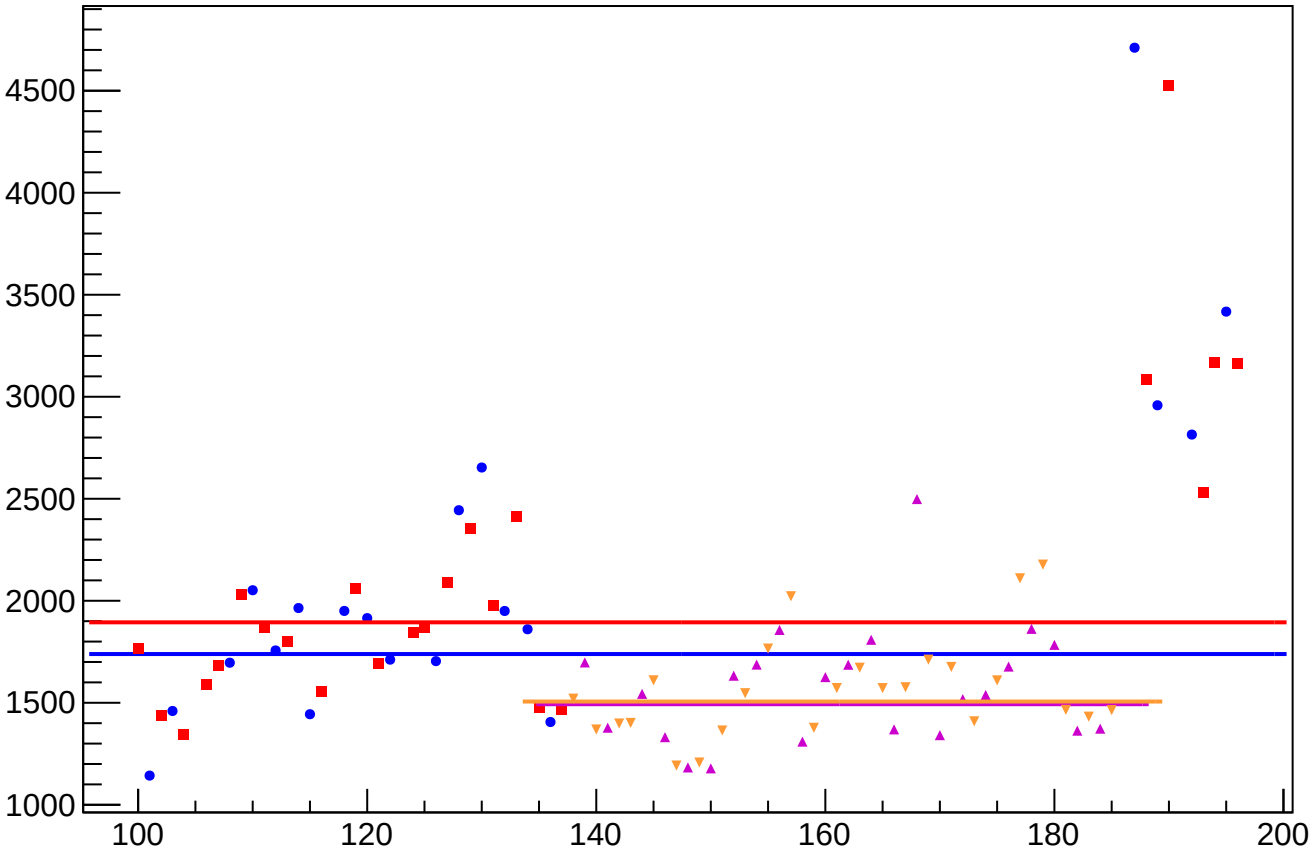
Left: 222.636+/-248.285 $\chi^2$/NDF: 45.1/47

Right: -416.106+/-418.396 $\chi^2$/NDF: 36.8/43

In: -61.240+/-304.125 $\chi^2$/NDF:36.4/42

Out: 170.526+/-299.846 $\chi^2$/NDF:47.0/48

All: 56.285+/-213.520 $\chi^2$/NDF: 83.7/91




Right In: 1738.888+/-0.418 $\chi^2$/NDF: 1626449.6/19

Left Out: 1506.103+/-0.246 $\chi^2$/NDF:796401.8/24

Right Out: 1894.295+/-0.418 $\chi^2$/NDF: 1711713.8/23

Left In: 1492.976+/-0.251 $\chi^2$/NDF:964358.0/22

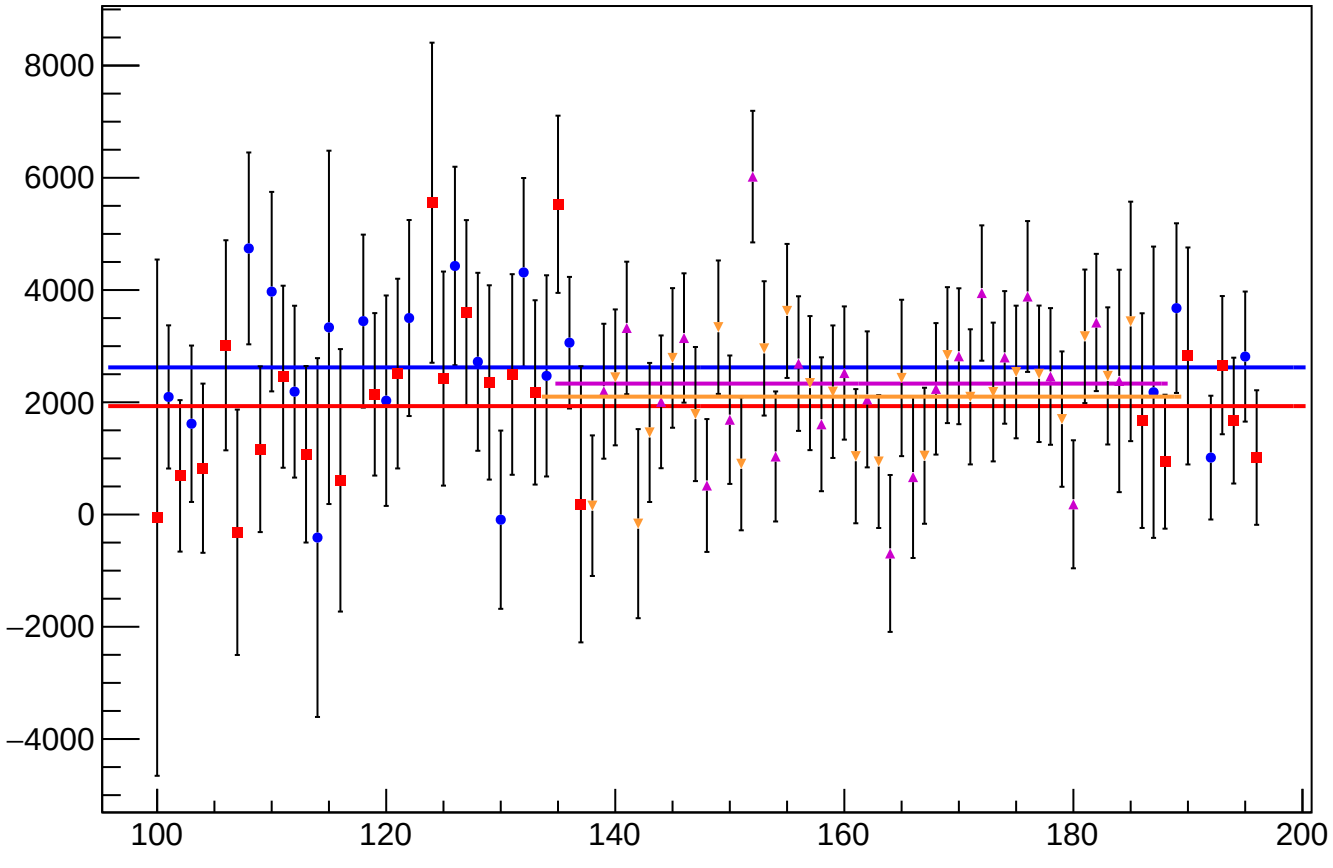
Left: 1499.665+/-0.176 $\chi^2$/NDF: 1762156.9/47

Right: 1816.593+/-0.296 $\chi^2$/NDF: 3407145.0/43

In: 1557.940+/-0.215 $\chi^2$/NDF:2844994.7/42

Out: 1605.791+/-0.212 $\chi^2$/NDF:3147892.2/48

All: 1582.205+/-0.151 $\chi^2$/NDF: 6017992.9/91




Right In: 2621.820+/-351.222 $\chi^2$/NDF: 12.3/19

Left Out: 2100.398+/-248.306 $\chi^2$/NDF:13.8/24

Right Out: 1931.642+/-323.982 $\chi^2$/NDF: 14.6/24

Left In: 2332.954+/-255.284 $\chi^2$/NDF:29.5/22

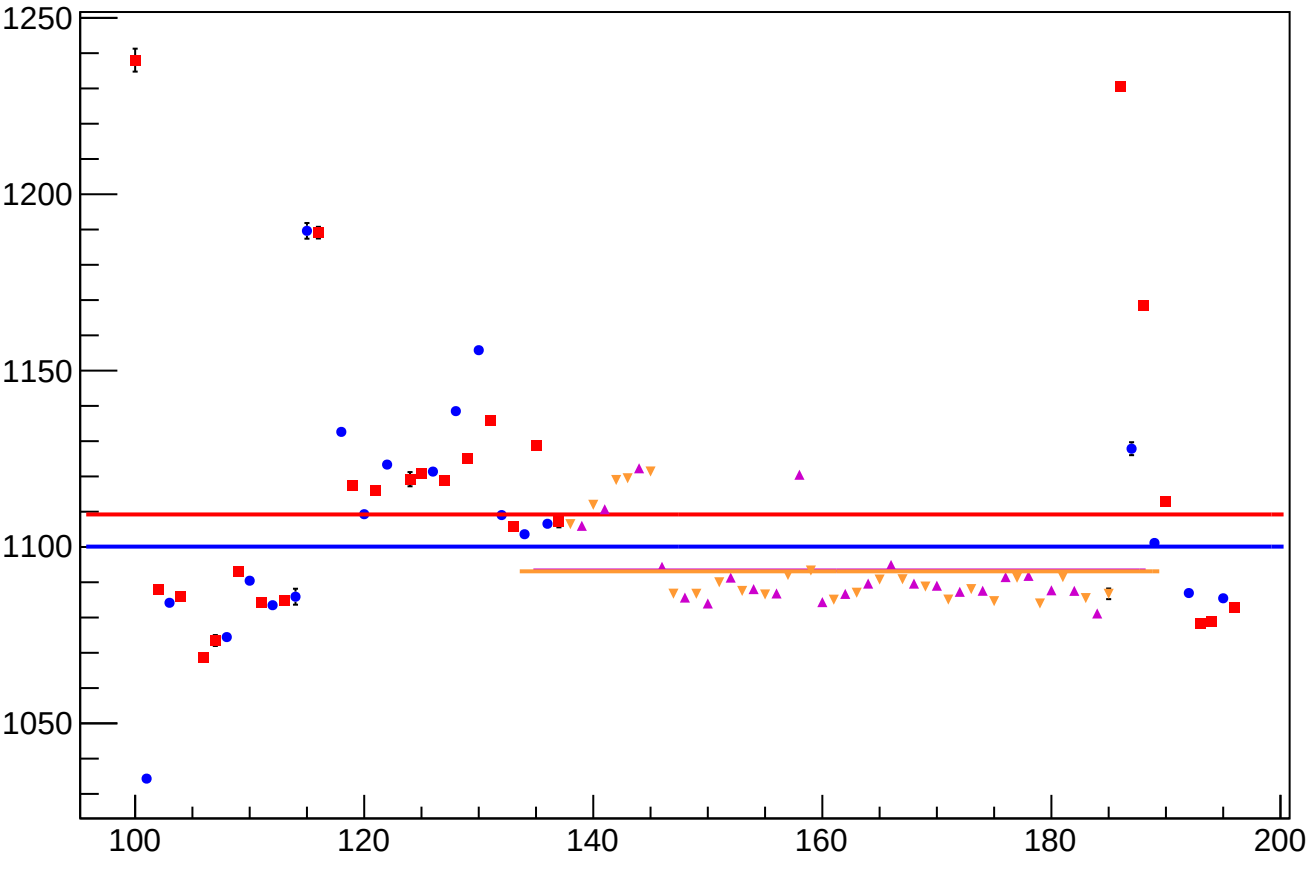
Left: 2213.454+/-177.995 $\chi^2$/NDF: 43.7/47

Right: 2248.933+/-238.139 $\chi^2$/NDF: 28.9/44

In: 2432.810+/-206.500 $\chi^2$/NDF:42.2/42

Out: 2037.952+/-197.081 $\chi^2$/NDF:28.6/49

All: 2226.171+/-142.571 $\chi^2$/NDF: 72.7/92




Right In: 1100.106+/-0.248 $\chi^2$/NDF: 14156.8/19

Left Out: 1093.102+/-0.176 $\chi^2$/NDF:3983.2/24

Right Out: 1109.225+/-0.229 $\chi^2$/NDF: 25405.1/24

Left In: 1093.338+/-0.181 $\chi^2$/NDF:3725.7/22

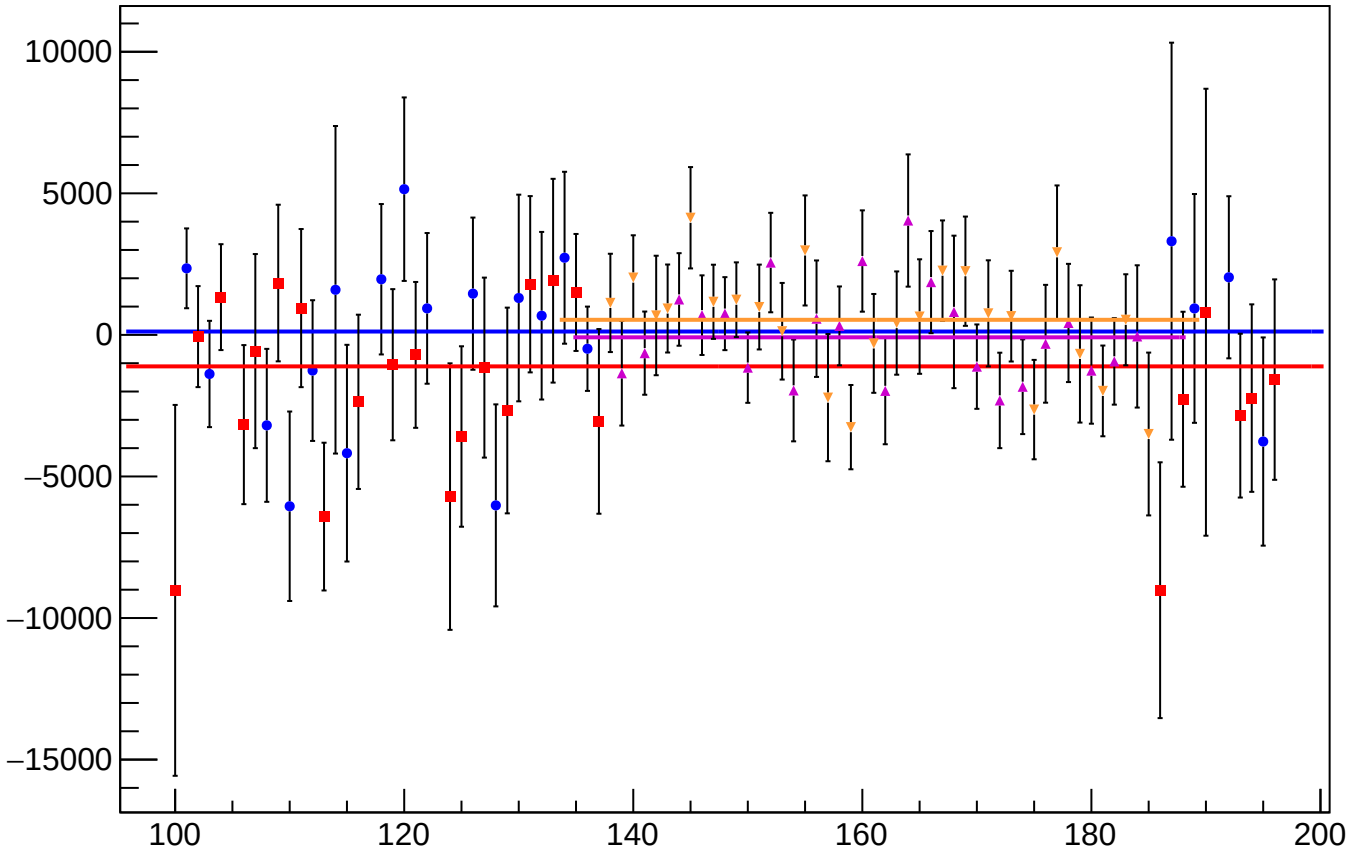
Left: 1093.217+/-0.126 $\chi^2$/NDF: 7709.8/47

Right: 1105.033+/-0.168 $\chi^2$/NDF: 40290.2/44

In: 1095.678+/-0.146 $\chi^2$/NDF:18368.4/42

Out: 1099.068+/-0.139 $\chi^2$/NDF:32508.5/49

All: 1097.452+/-0.101 $\chi^2$/NDF: 51159.0/92




Right In: 119.336+/-587.719 $\chi^2$/NDF: 18.7/19

Left Out: 532.982+/-347.223 $\chi^2$/NDF:26.4/24

Right Out: -1111.955+/-584.706 $\chi^2$/NDF: 19.1/24

Left In: -85.329+/-353.933 $\chi^2$/NDF:18.1/22

Left: 229.744+/-247.862 $\chi^2$/NDF: 46.1/47

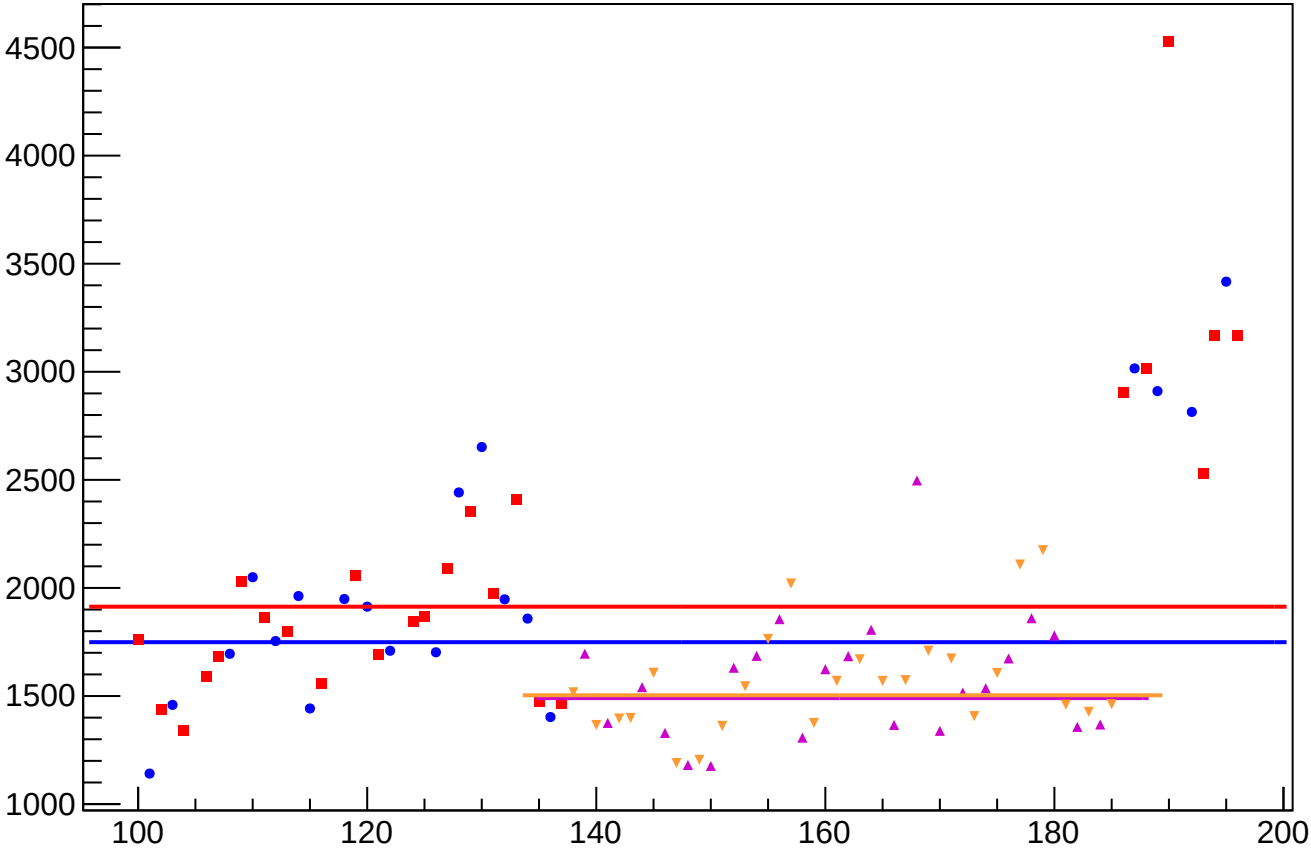
Right: -499.473+/-414.511 $\chi^2$/NDF: 40.0/44

In: -30.859+/-303.199 $\chi^2$/NDF:36.9/42

Out: 104.133+/-298.549 $\chi^2$/NDF:51.4/49

All: 37.680+/-212.731 $\chi^2$/NDF: 88.4/92

asym_usr_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1749.111+/-0.416 $\chi^2$/NDF: 1706149.9/19

Left Out: 1503.437+/-0.246 $\chi^2$/NDF:799670.9/24

Right Out: 1913.315+/-0.413 $\chi^2$/NDF: 1825740.4/24

Left In: 1490.314+/-0.250 $\chi^2$/NDF:968221.5/22

Left: 1497.001+/-0.175 $\chi^2$/NDF: 1769293.4/47

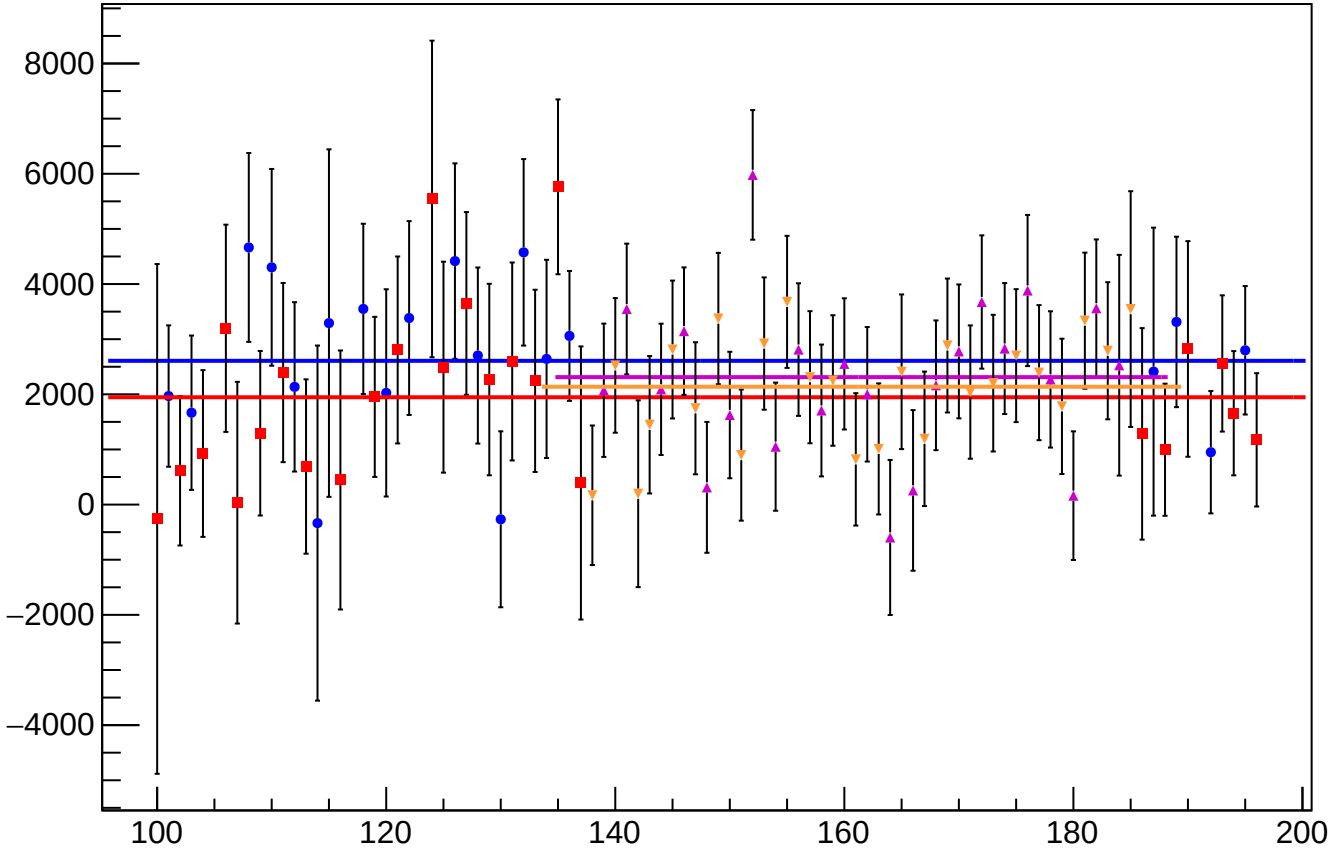
Right: 1831.635+/-0.293 $\chi^2$/NDF: 3610351.3/44

In: 1559.191+/-0.214 $\chi^2$/NDF:2958960.1/42

Out: 1610.296+/-0.211 $\chi^2$/NDF:3351982.3/49

All: 1585.138+/-0.150 $\chi^2$/NDF: 6339790.9/92

# dit_asym_usr_mean vs Slug, Sign Corrected




Right In: 2607.513+/-353.148 $\chi^2$/NDF: 12.9/19

Left Out: 2137.184+/-250.195 $\chi^2$/NDF:13.9/24

Right Out: 1946.819+/-325.528 $\chi^2$/NDF: 15.2/24

Left In: 2311.761+/-257.036 $\chi^2$/NDF:29.9/22

Left: 2222.119+/-179.284 $\chi^2$/NDF: 44.1/47

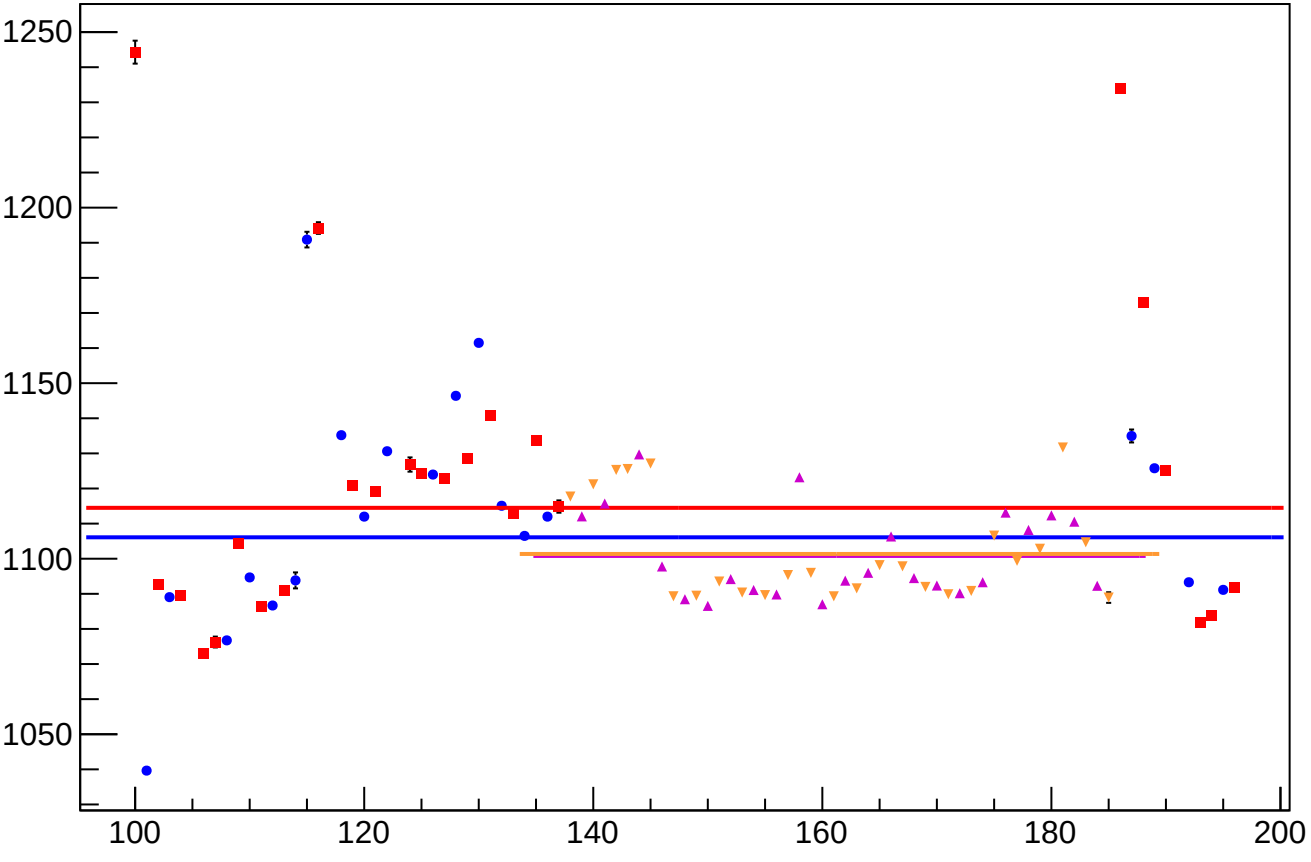
Right: 2250.323+/-239.353 $\chi^2$/NDF: 30.0/44

In: 2414.180+/-207.818 $\chi^2$/NDF:43.3/42

Out: 2066.492+/-198.373 $\chi^2$/NDF:29.3/49

All: 2232.255+/-143.494 $\chi^2$/NDF: 74.1/92

# dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1106.096+/-0.250 $\chi^2$/NDF: 14412.7/19

Left Out: 1101.353+/-0.177 $\chi^2$/NDF:5950.6/24

Right Out: 1114.493+/-0.230 $\chi^2$/NDF: 24902.0/24

Left In: 1100.792+/-0.182 $\chi^2$/NDF:4641.7/22

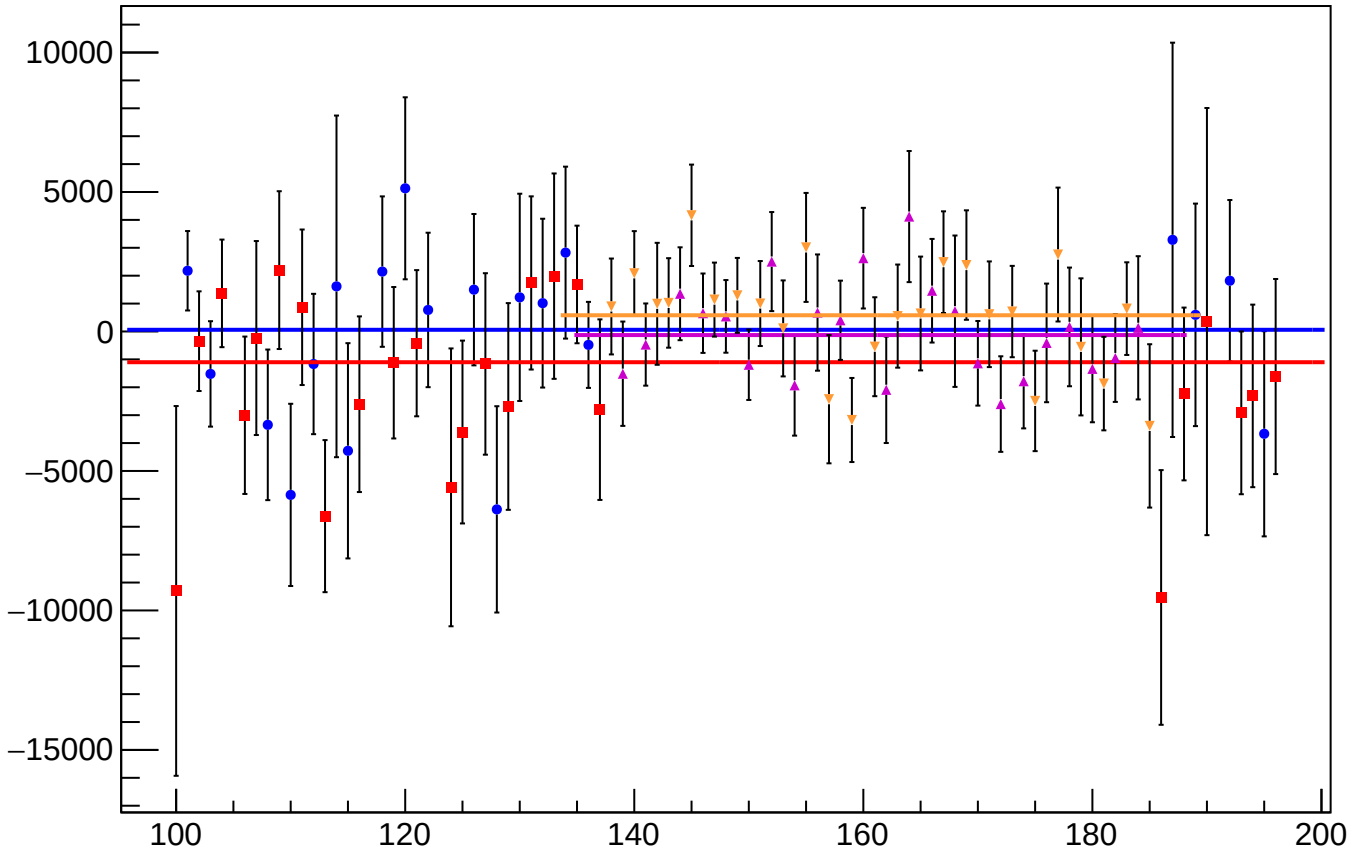
Left: 1101.080+/-0.127 $\chi^2$/NDF: 10597.2/47

Right: 1110.636+/-0.169 $\chi^2$/NDF: 39926.1/44

In: 1102.629+/-0.147 $\chi^2$/NDF:19349.2/42

Out: 1106.233+/-0.140 $\chi^2$/NDF:32901.2/49

All: 1104.515+/-0.101 $\chi^2$/NDF: 52565.1/92




Right In: 60.590+/-596.404 $\chi^2$/NDF: 18.5/19

Left Out: 581.427+/-353.389 $\chi^2$/NDF:25.4/24

Right Out: -1101.832+/-592.866 $\chi^2$/NDF: 19.4/24

Left In: -128.769+/-359.128 $\chi^2$/NDF:17.9/22

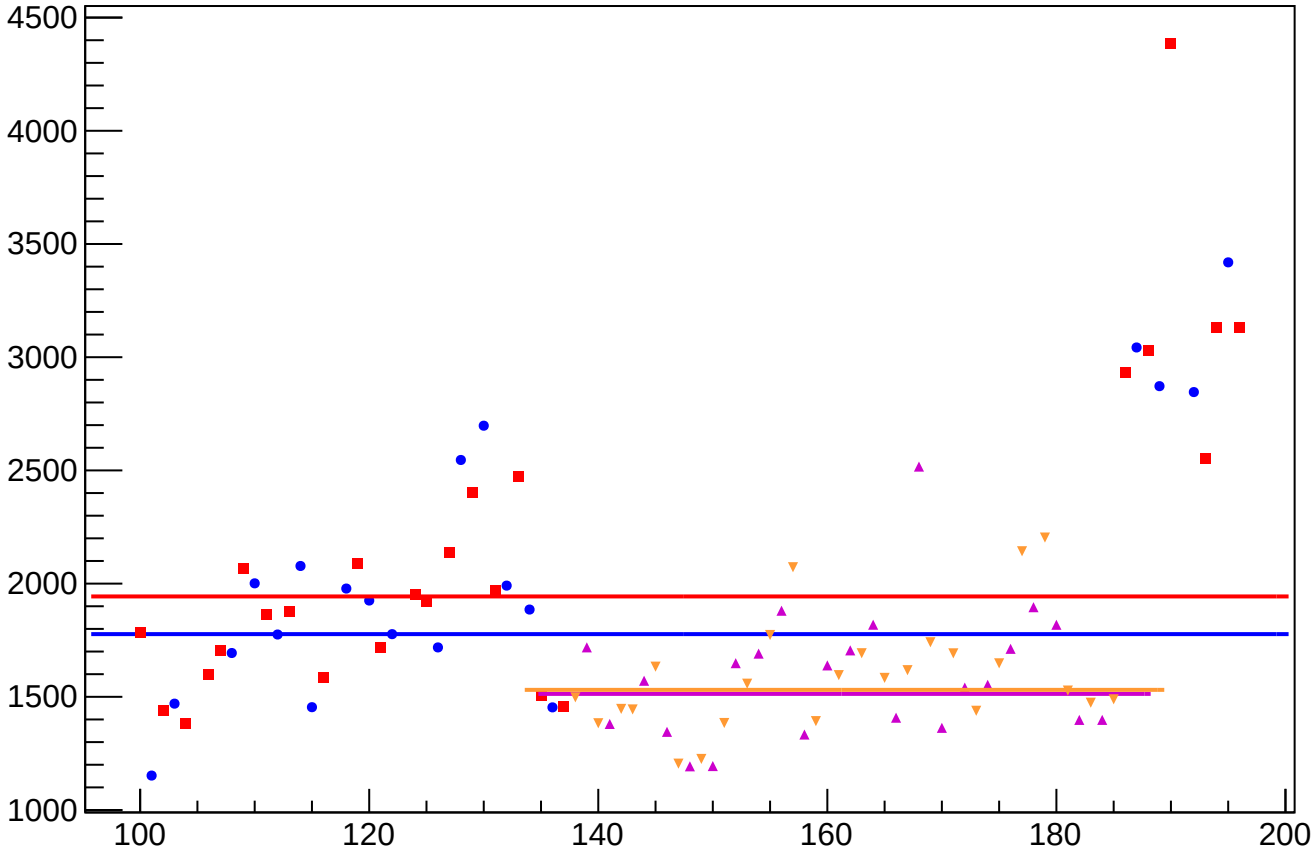
Left: 232.050+/-251.888 $\chi^2$/NDF: 45.2/47

Right: -524.080+/-420.465 $\chi^2$/NDF: 39.8/44

In: -78.380+/-307.657 $\chi^2$/NDF:36.4/42

Out: 140.153+/-303.554 $\chi^2$/NDF:50.7/49

All: 32.354+/-216.081 $\chi^2$/NDF: 87.4/92




Right In: 1776.954+/-0.422 $\chi^2$/NDF: 1681021.1/19

Left Out: 1530.764+/-0.250 $\chi^2$/NDF:795634.5/24

Right Out: 1943.362+/-0.419 $\chi^2$/NDF: 1756761.6/24

Left In: 1512.947+/-0.254 $\chi^2$/NDF:957059.5/22

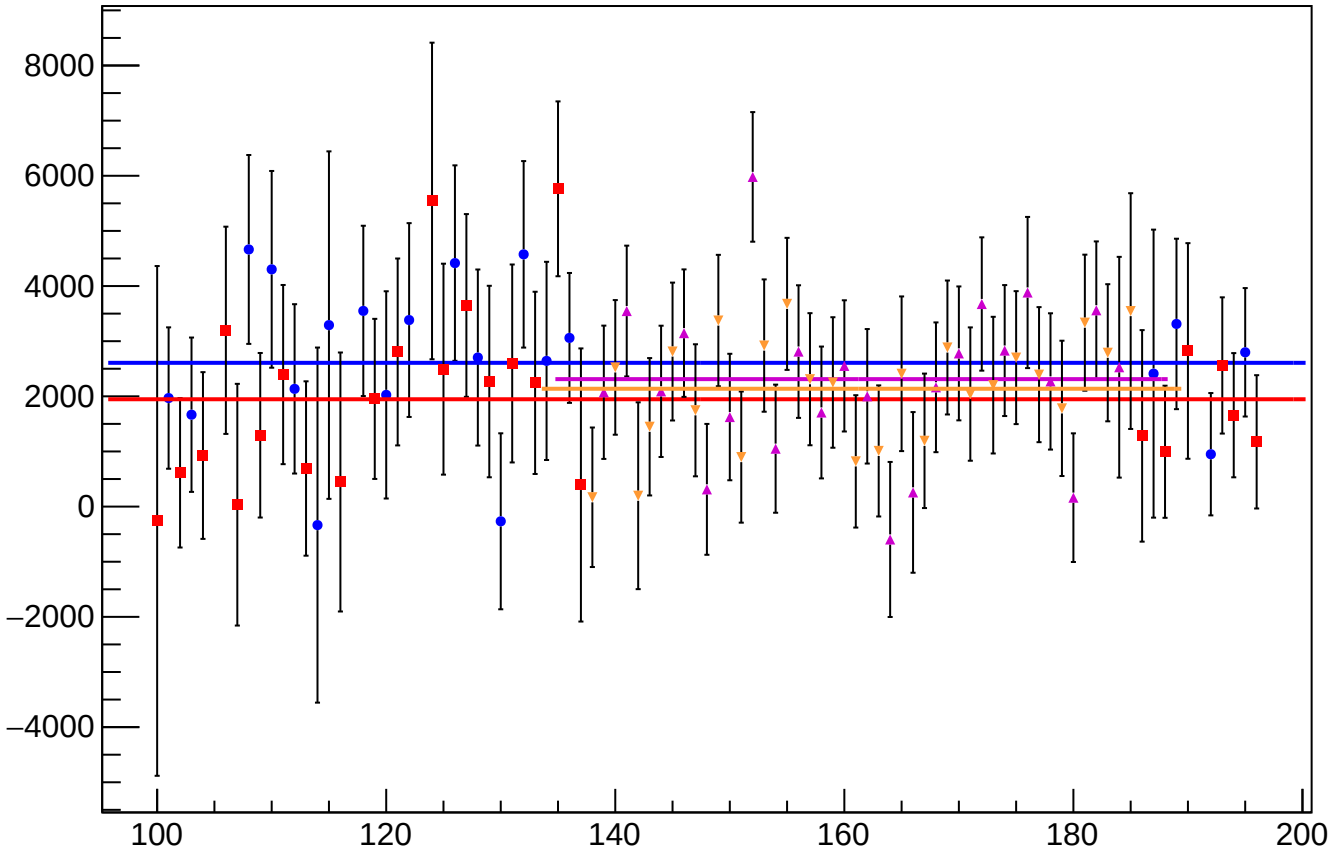
Left: 1521.999+/-0.178 $\chi^2$/NDF: 1755195.1/47

Right: 1860.653+/-0.297 $\chi^2$/NDF: 3516097.5/44

In: 1583.200+/-0.218 $\chi^2$/NDF:2925696.9/42

Out: 1638.929+/-0.215 $\chi^2$/NDF:3267115.9/49

All: 1611.439+/-0.153 $\chi^2$/NDF: 6226064.3/92




Right In: 2607.511+/-353.148 $\chi^2$/NDF: 12.9/19

Left Out: 2137.182+/-250.195 $\chi^2$/NDF:13.9/24

Right Out: 1946.818+/-325.528 $\chi^2$/NDF: 15.2/24

Left In: 2311.761+/-257.036 $\chi^2$/NDF:29.9/22

Left: 2222.118+/-179.284 $\chi^2$/NDF: 44.1/47

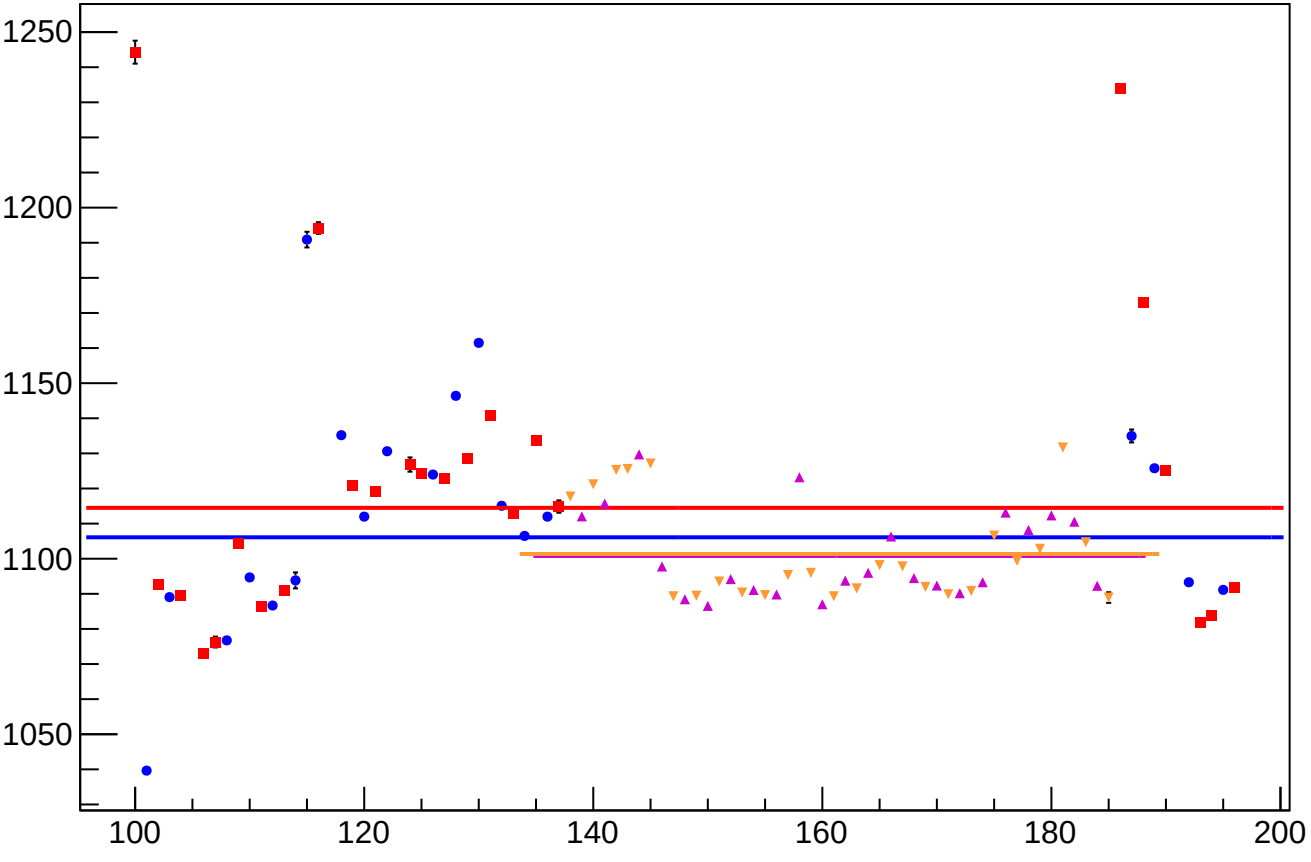
Right: 2250.321+/-239.353 $\chi^2$/NDF: 30.0/44

In: 2414.179+/-207.818 $\chi^2$/NDF:43.3/42

Out: 2066.490+/-198.373 $\chi^2$/NDF:29.3/49

All: 2232.254+/-143.494 $\chi^2$/NDF: 74.1/92

# eigen_dit_asym_usr_rms vs Slug, Sign Corrected




Right In: 1106.095+/-0.250 $\chi^2$/NDF: 14412.6/19

Left Out: 1101.353+/-0.177 $\chi^2$/NDF:5950.6/24

Right Out: 1114.493+/-0.230 $\chi^2$/NDF: 24902.0/24

Left In: 1100.792+/-0.182 $\chi^2$/NDF:4641.7/22

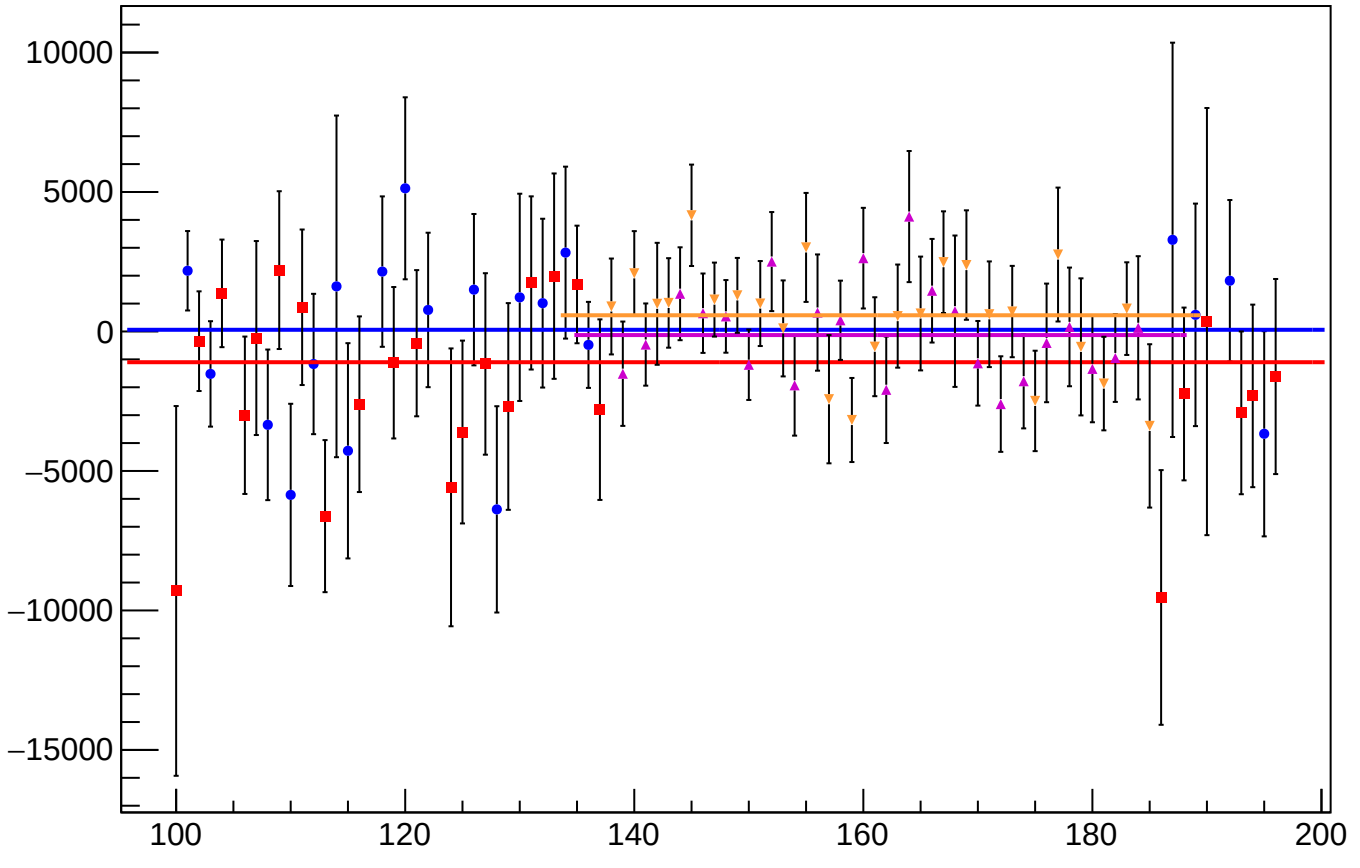
Left: 1101.081+/-0.127 $\chi^2$/NDF: 10597.2/47

Right: 1110.635+/-0.169 $\chi^2$/NDF: 39926.0/44

In: 1102.629+/-0.147 $\chi^2$/NDF:19349.1/42

Out: 1106.233+/-0.140 $\chi^2$/NDF:32901.1/49

All: 1104.515+/-0.101 $\chi^2$/NDF: 52564.9/92




Right In: 60.587+/-596.404 $\chi^2$/NDF: 18.5/19

Left Out: 581.426+/-353.390 $\chi^2$/NDF:25.4/24

Right Out: -1101.834+/-592.866 $\chi^2$/NDF: 19.4/24

Left In: -128.769+/-359.129 $\chi^2$/NDF:17.9/22

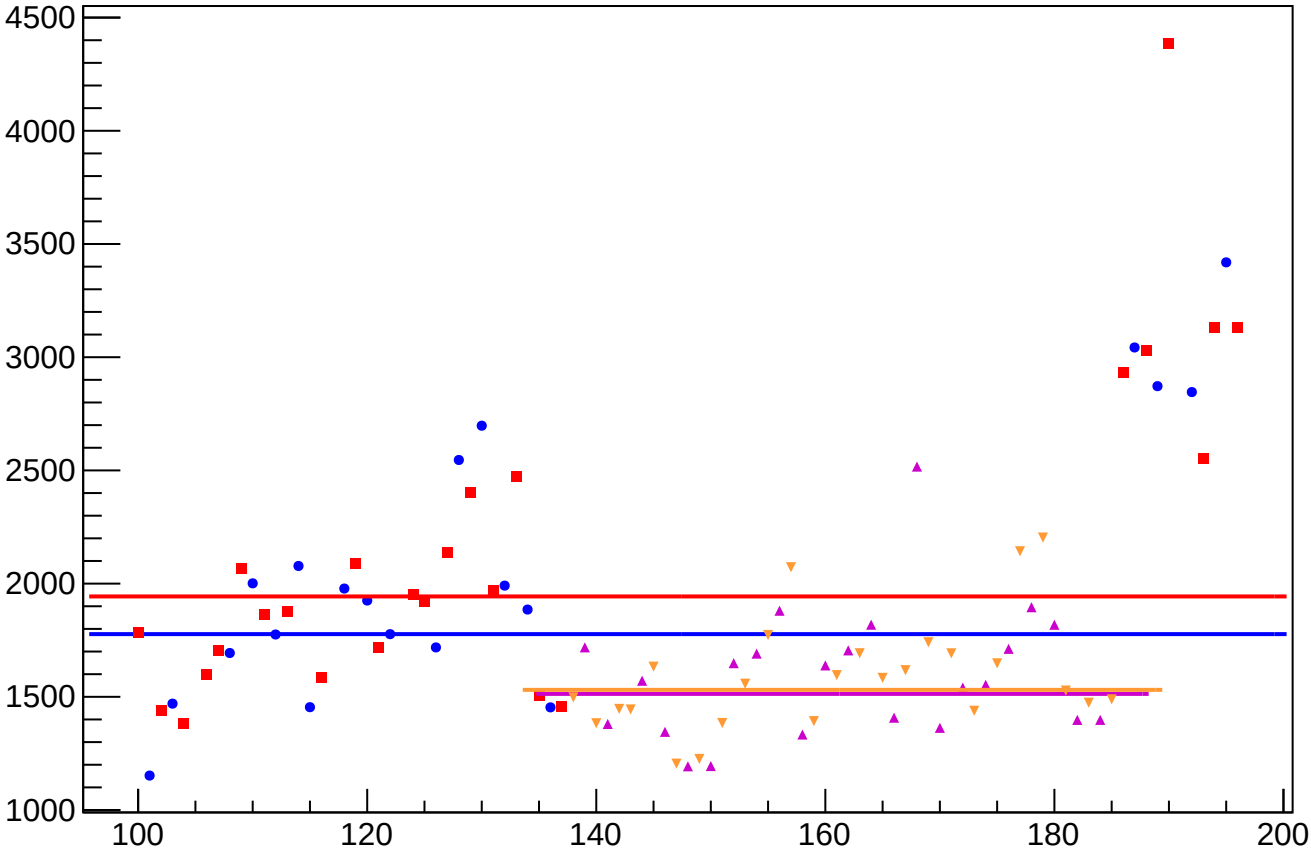
Left: 232.049+/-251.889 $\chi^2$/NDF: 45.2/47

Right: -524.082+/-420.465 $\chi^2$/NDF: 39.8/44

In: -78.381+/-307.658 $\chi^2$/NDF:36.4/42

Out: 140.149+/-303.554 $\chi^2$/NDF:50.7/49

All: 32.351+/-216.081 $\chi^2$/NDF: 87.4/92




Right In: 1776.952+/-0.422 $\chi^2$/NDF: 1681009.4/19

Left Out: 1530.768+/-0.250 $\chi^2$/NDF:795638.4/24

Right Out: 1943.360+/-0.419 $\chi^2$/NDF: 1756747.7/24

Left In: 1512.951+/-0.254 $\chi^2$/NDF:957065.2/22

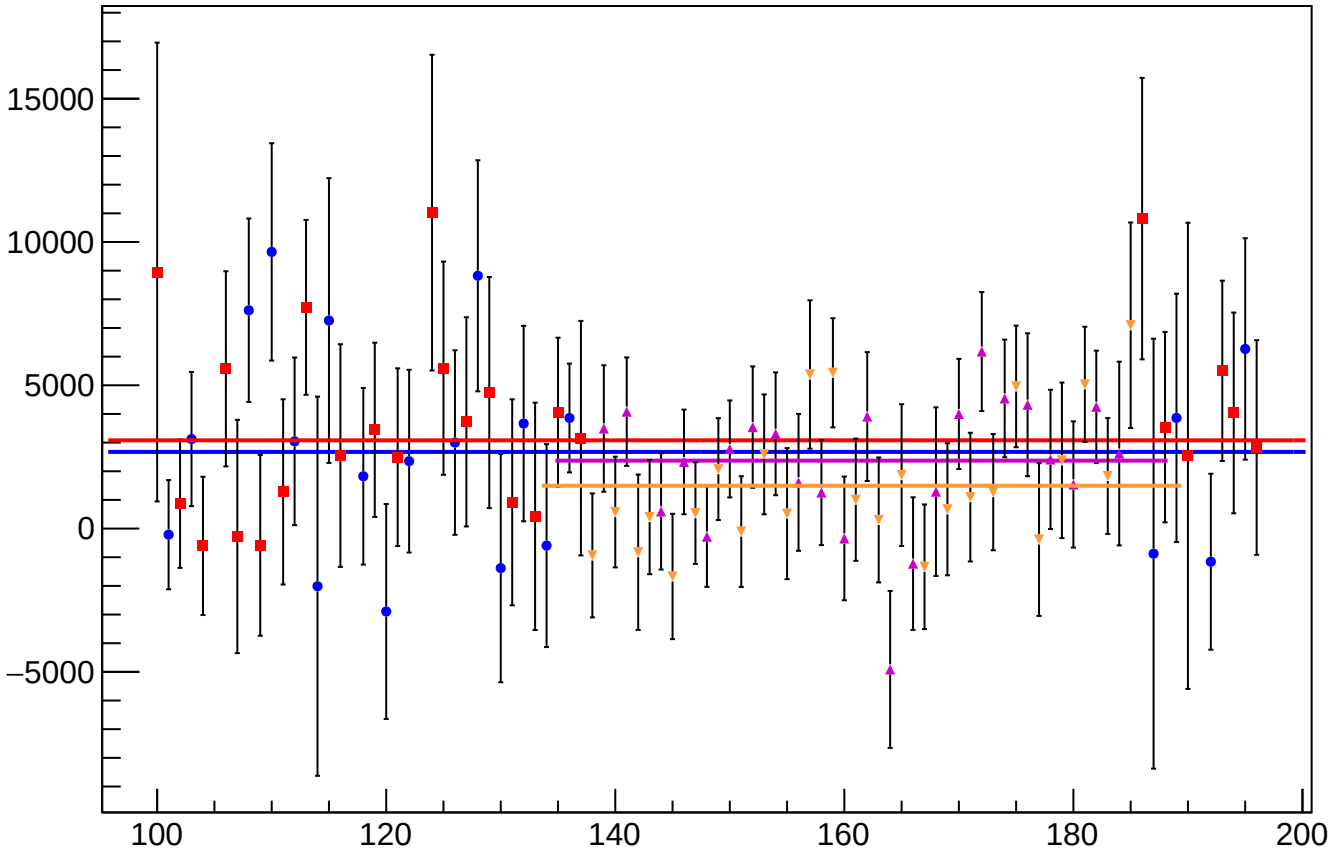
Left: 1522.003+/-0.178 $\chi^2$/NDF: 1755204.7/47

Right: 1860.651+/-0.297 $\chi^2$/NDF: 3516072.7/44

In: 1583.203+/-0.218 $\chi^2$/NDF:2925678.1/42

Out: 1638.932+/-0.215 $\chi^2$/NDF:3267086.6/49

All: 1611.441+/-0.153 $\chi^2$/NDF: 6226016.7/92




Right In: 2674.963+/-709.125 $\chi^2$/NDF: 19.2/19

Left Out: 1495.022+/-433.196 $\chi^2$/NDF:23.8/24

Right Out: 3079.263+/-689.008 $\chi^2$/NDF: 16.0/24

Left In: 2370.694+/-442.952 $\chi^2$/NDF:23.7/22

Left: 1923.108+/-309.708 $\chi^2$/NDF: 49.5/47

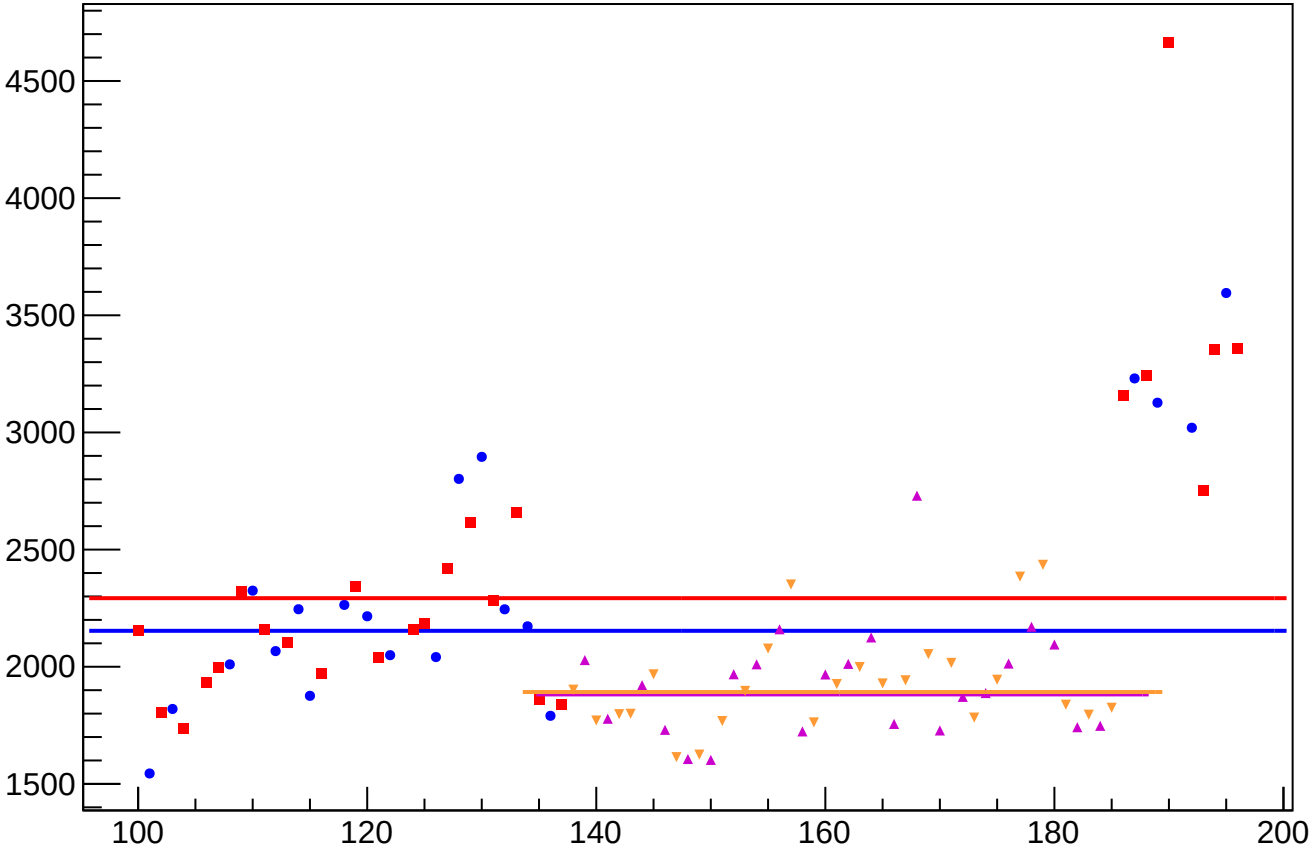
Right: 2882.929+/-494.161 $\chi^2$/NDF: 35.3/44

In: 2456.093+/-375.683 $\chi^2$/NDF:43.0/42

Out: 1943.846+/-366.734 $\chi^2$/NDF:43.5/49

All: 2193.796+/-262.427 $\chi^2$/NDF: 87.5/92

# asym_usr_rms vs Slug, Sign Corrected




Right In: 2153.379+/-0.501 $\chi^2$/NDF: 1044755.0/19

Left Out: 1892.117+/-0.306 $\chi^2$/NDF:389648.0/24

Right Out: 2292.652+/-0.487 $\chi^2$/NDF: 1173079.9/24

Left In: 1881.892+/-0.313 $\chi^2$/NDF:462659.6/22

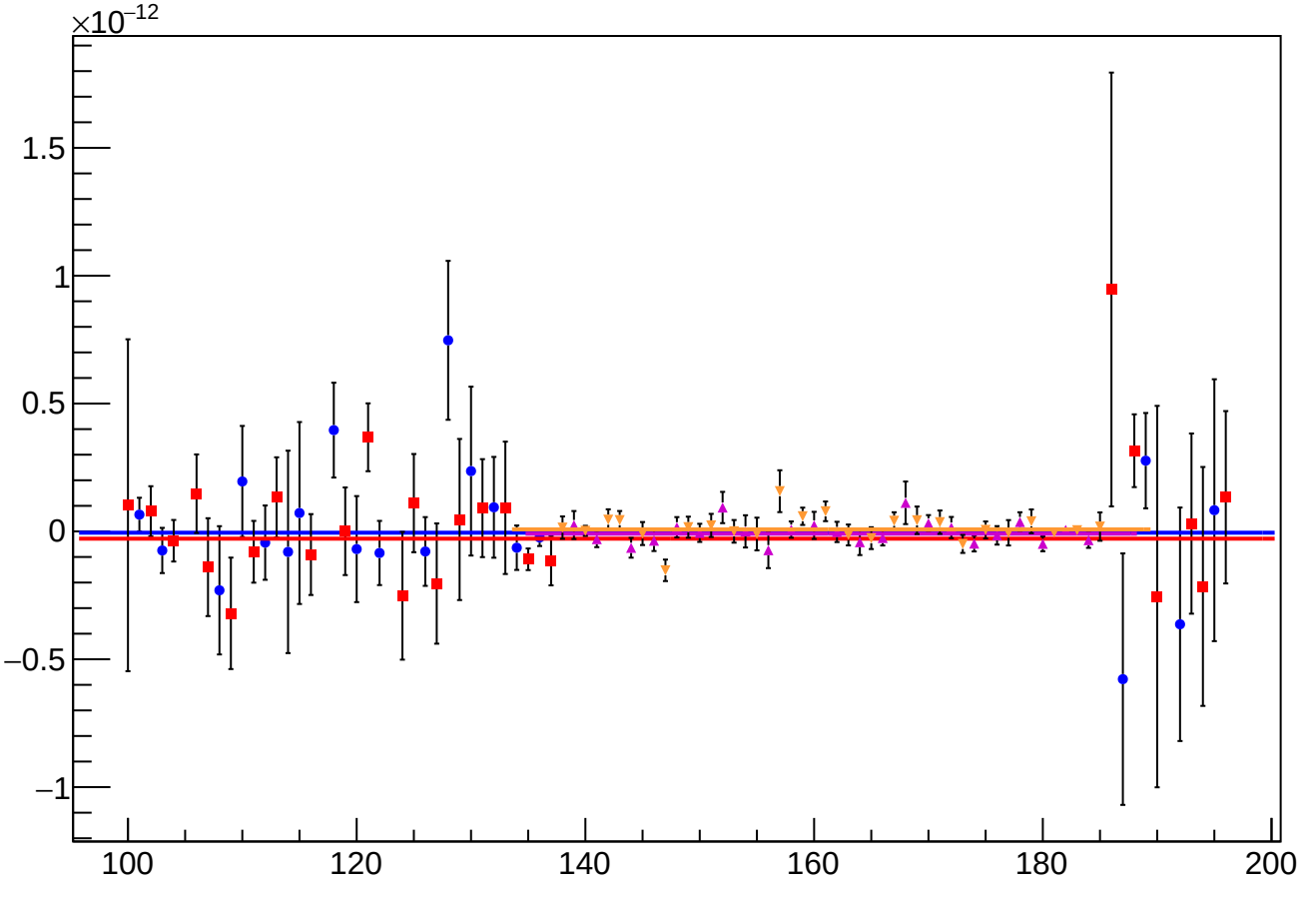
Left: 1887.118+/-0.219 $\chi^2$/NDF: 852852.3/47

Right: 2225.019+/-0.349 $\chi^2$/NDF: 2257517.8/44

In: 1958.090+/-0.266 $\chi^2$/NDF:1718283.2/42

Out: 2005.591+/-0.259 $\chi^2$/NDF:2047119.6/49

All: 1982.413+/-0.186 $\chi^2$/NDF: 3781774.7/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:32.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.7/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.1/22

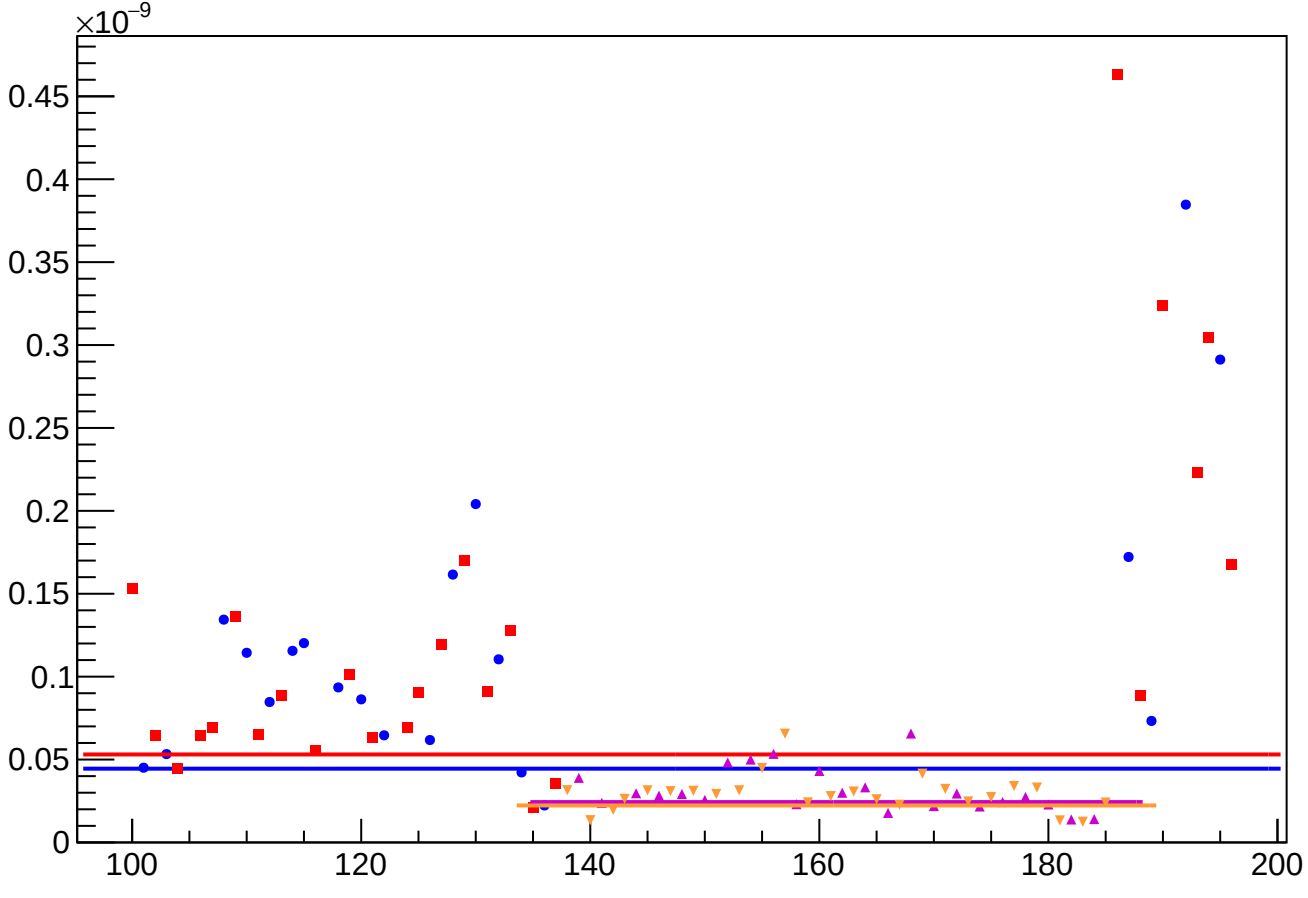
Left: 0.000+/-0.000 $\chi^2$/NDF: 54.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 50.9/44

In: -0.000+/-0.000 $\chi^2$/NDF:39.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:63.9/49

All: -0.000+/-0.000 $\chi^2$/NDF: 105.9/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4709038.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3629538.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4797752.8/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:3124271.4/22

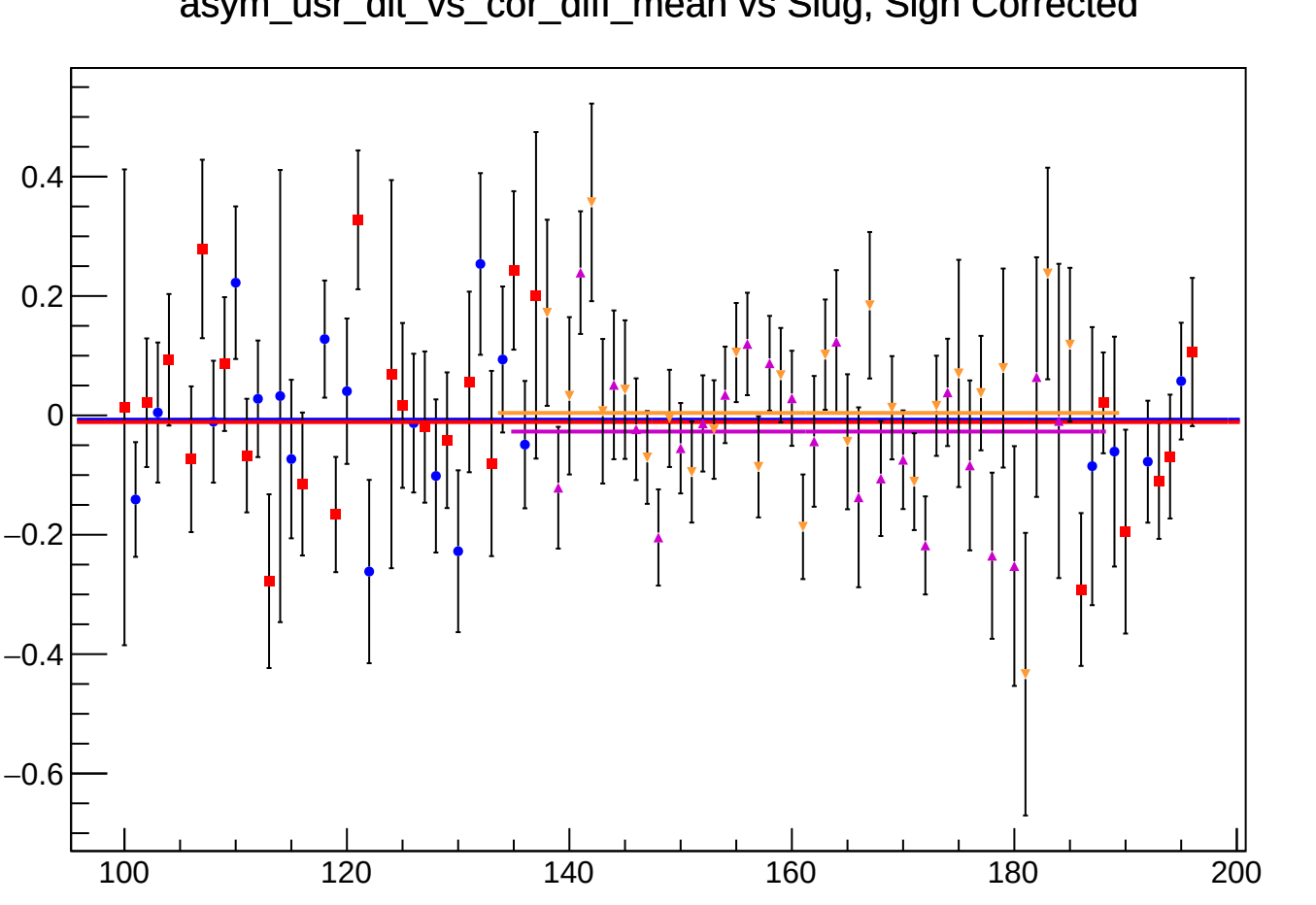
Left: 0.000+/-0.000 $\chi^2$/NDF: 6833582.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9622678.1/44

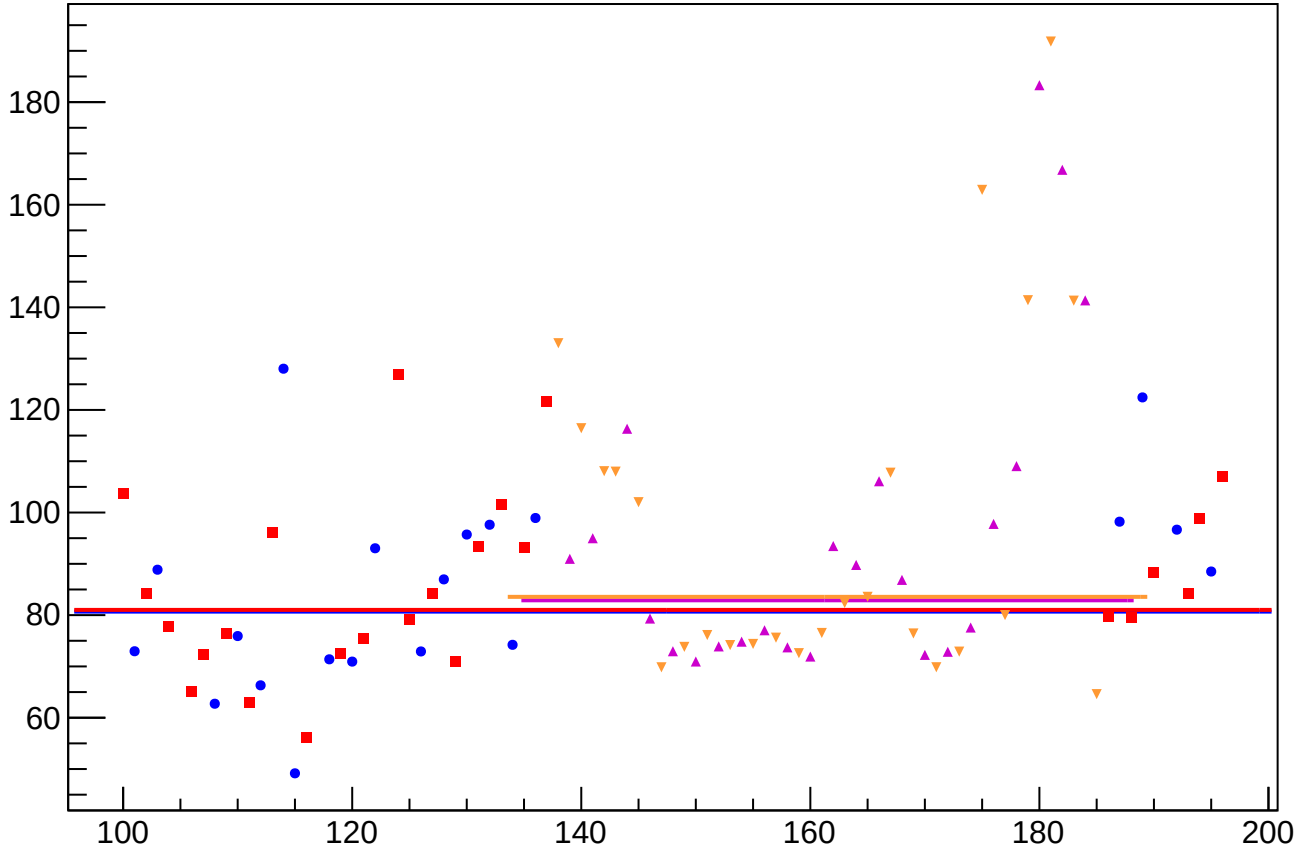
In: 0.000+/-0.000 $\chi^2$/NDF:9118540.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10985502.4/49

All: 0.000+/-0.000 $\chi^2$/NDF: 20176705.4/92


asym_usr_dit_vs_cor_diff_mean vs Slug, Sign Corrected
0.4
0.2
0
−0.2
−0.4
−0.6
100
120
140
160
180
200
Right In: -0.007+/-0.027 χ²/NDF: 18.4/19
Left Out: 0.004+/-0.020 χ²/NDF:28.2/24
Right Out: -0.011+/-0.025 χ²/NDF: 34.5/24
Left In: -0.027+/-0.021 χ²/NDF:32.0/22
Left: -0.011+/-0.014 χ²/NDF: 61.3/47
Right: -0.009+/-0.018 χ²/NDF: 52.9/44
In: -0.020+/-0.016 χ²/NDF:50.7/42
Out: -0.002+/-0.016 χ²/NDF:62.9/49
All: -0.011+/-0.011 χ²/NDF: 114.2/92

# asym_usr_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 80.687+/-0.019 $\chi^2$/NDF: 612345.8/19

Left Out: 83.564+/-0.014 $\chi^2$/NDF:2172931.4/24

Right Out: 81.019+/-0.018 $\chi^2$/NDF: 572525.2/24

Left In: 82.891+/-0.015 $\chi^2$/NDF:1573003.1/22

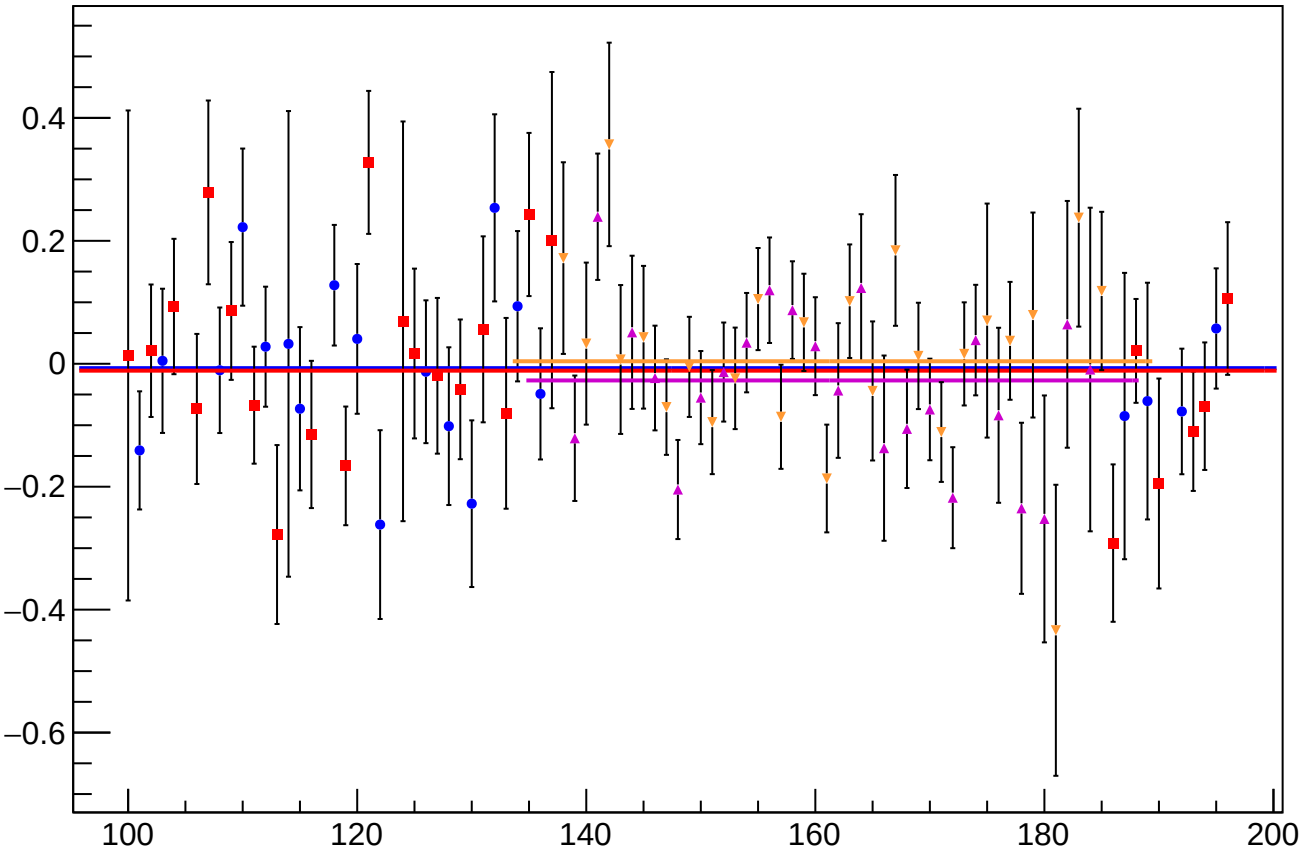
Left: 83.231+/-0.010 $\chi^2$/NDF: 3747022.5/47

Right: 80.869+/-0.013 $\chi^2$/NDF: 1185033.5/44

In: 82.089+/-0.012 $\chi^2$/NDF:2193709.0/42

Out: 82.541+/-0.011 $\chi^2$/NDF:2758095.5/49

All: 82.325+/-0.008 $\chi^2$/NDF: 4952595.8/92




Right In: -0.007+/-0.027 $\chi^2$/NDF: 18.4/19

Left Out: 0.004+/-0.020 $\chi^2$/NDF:28.2/24

Right Out: -0.011+/-0.025 $\chi^2$/NDF: 34.5/24

Left In: -0.027+/-0.021 $\chi^2$/NDF:32.0/22

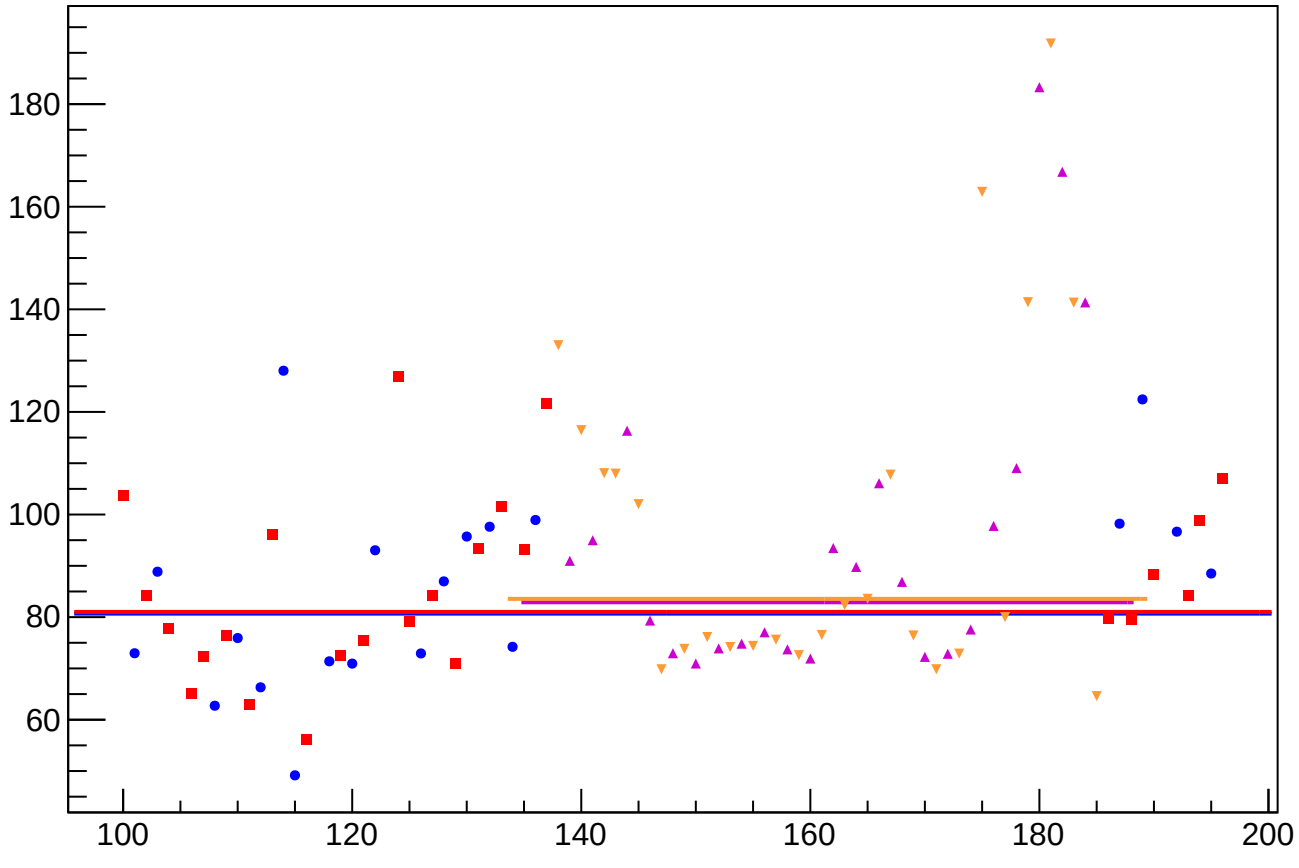
Left: -0.011+/-0.014 $\chi^2$/NDF: 61.3/47

Right: -0.009+/-0.018 $\chi^2$/NDF: 52.9/44

In: -0.020+/-0.016 $\chi^2$/NDF:50.7/42

Out: -0.002+/-0.016 $\chi^2$/NDF:62.9/49

All: -0.011+/-0.011 $\chi^2$/NDF: 114.2/92




Right In: 80.687+/-0.019 $\chi^2$/NDF: 612345.8/19

Left Out: 83.564+/-0.014 $\chi^2$/NDF:2172931.4/24

Right Out: 81.019+/-0.018 $\chi^2$/NDF: 572525.2/24

Left In: 82.891+/-0.015 $\chi^2$/NDF:1573003.1/22

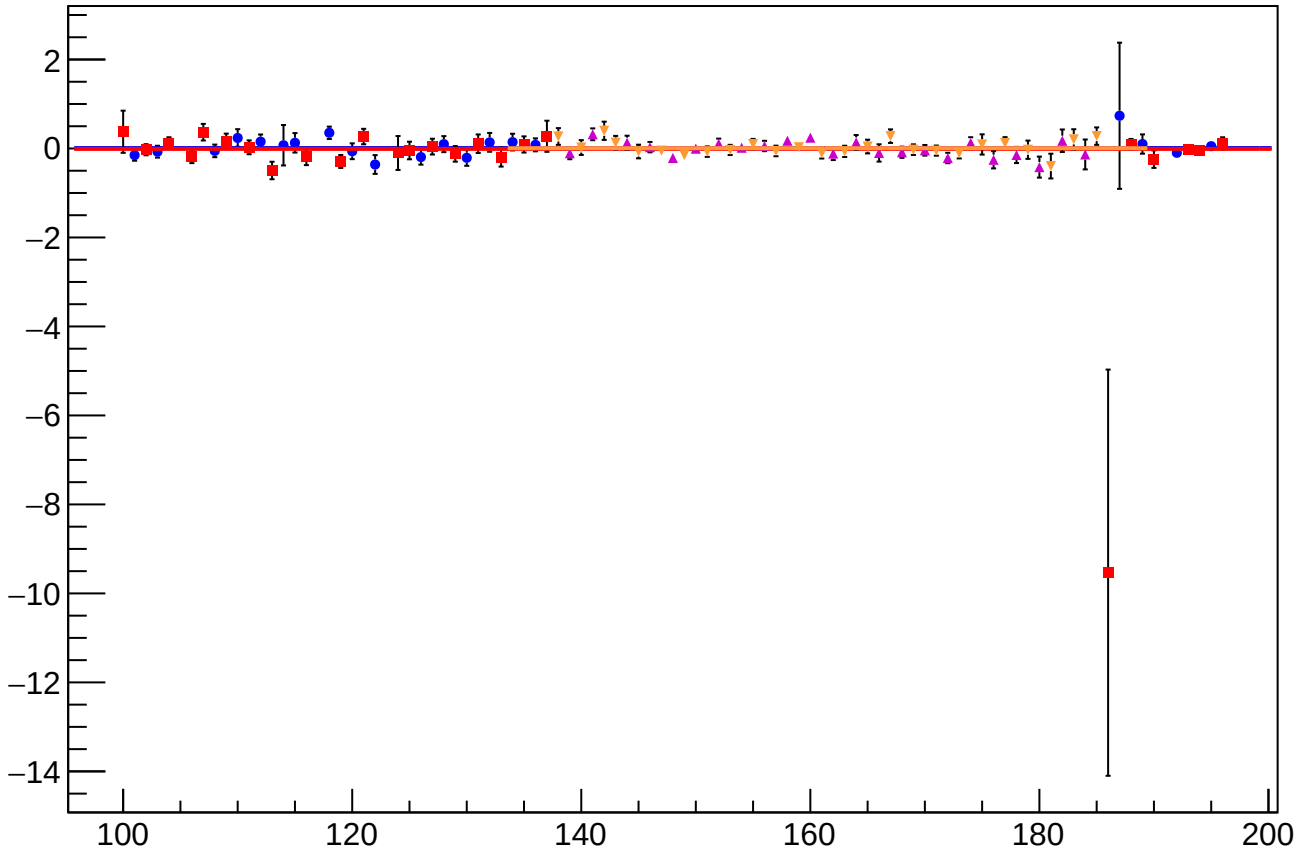
Left: 83.231+/-0.010 $\chi^2$/NDF: 3747022.5/47

Right: 80.869+/-0.013 $\chi^2$/NDF: 1185033.5/44

In: 82.089+/-0.012 $\chi^2$/NDF:2193709.0/42

Out: 82.541+/-0.011 $\chi^2$/NDF:2758095.5/49

All: 82.325+/-0.008 $\chi^2$/NDF: 4952595.8/92




Right In: 0.009+/-0.037 $\chi^2$/NDF: 19.6/19

Left Out: 0.006+/-0.028 $\chi^2$/NDF:21.3/24

Right Out: -0.009+/-0.033 $\chi^2$/NDF: 31.1/24

Left In: 0.010+/-0.028 $\chi^2$/NDF:31.3/22

Left: 0.008+/-0.020 $\chi^2$/NDF: 52.6/47

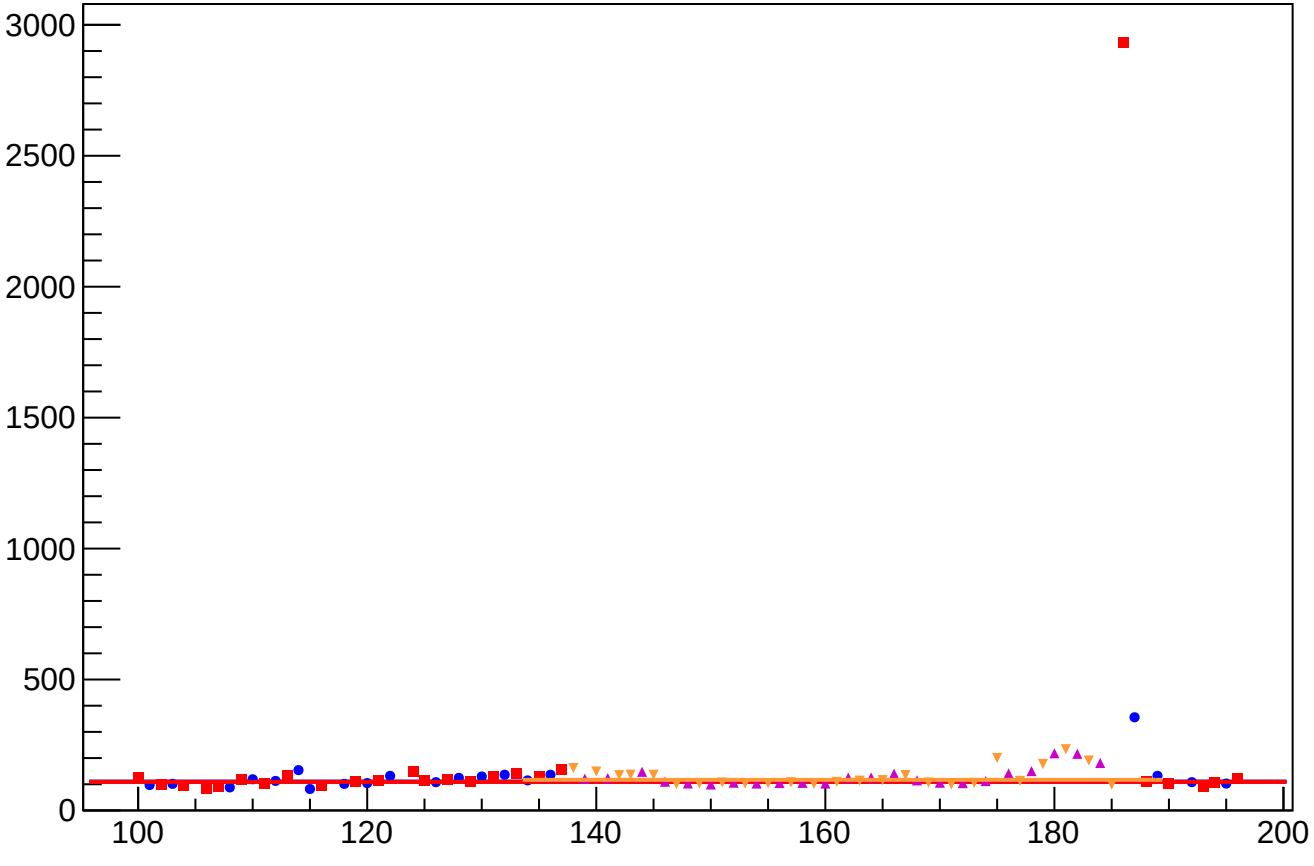
Right: -0.001+/-0.025 $\chi^2$/NDF: 50.8/44

In: 0.010+/-0.022 $\chi^2$/NDF:50.9/42

Out: 0.000+/-0.021 $\chi^2$/NDF:52.5/49

All: 0.005+/-0.015 $\chi^2$/NDF: 103.5/92

asym_usr_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 110.311+/-0.026 $\chi^2$/NDF: 375242.4/19

Left Out: 116.880+/-0.020 $\chi^2$/NDF:1596935.1/24

Right Out: 108.956+/-0.024 $\chi^2$/NDF: 1153914.8/24

Left In: 115.858+/-0.020 $\chi^2$/NDF:1231382.1/22

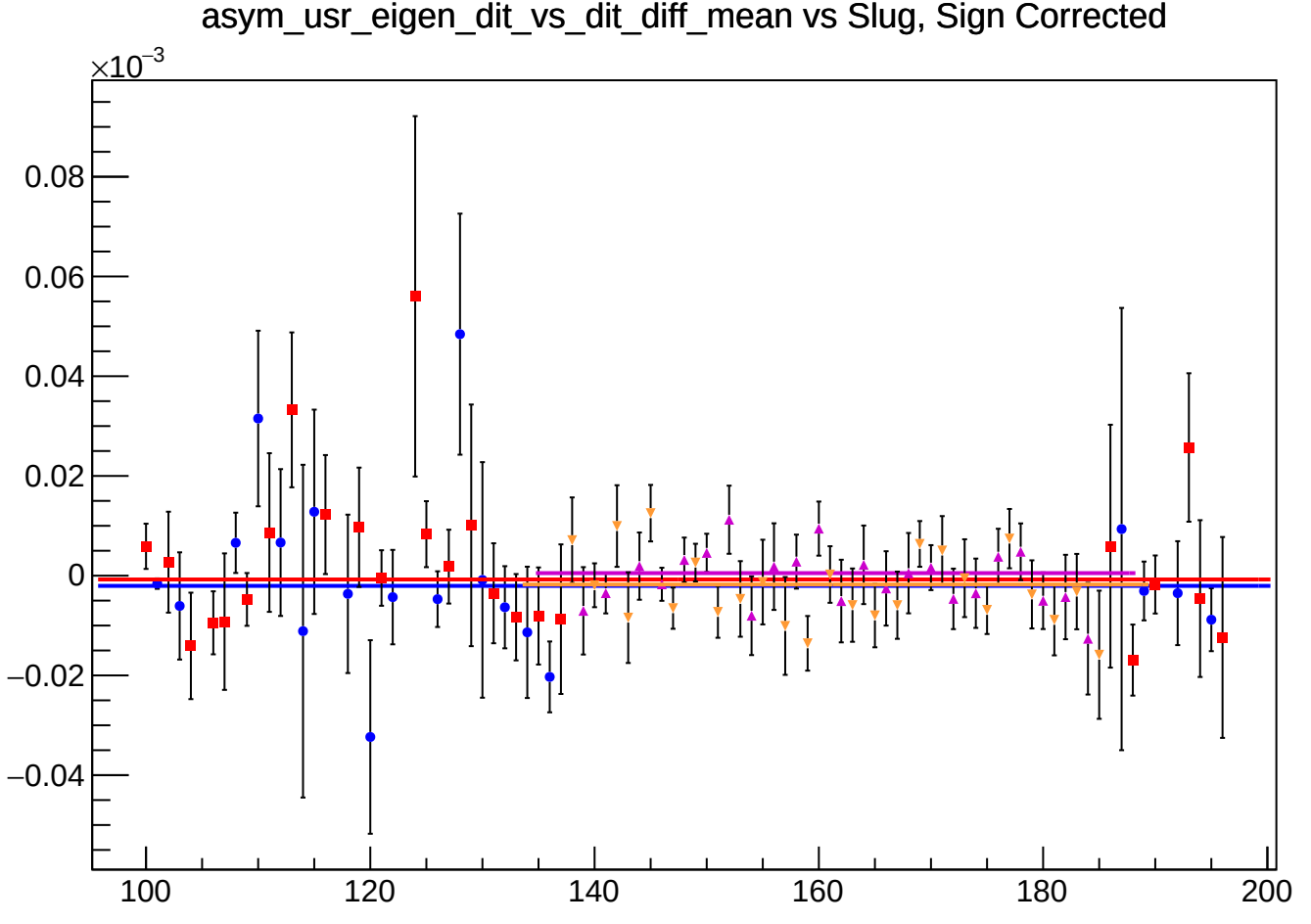
Left: 116.376+/-0.014 $\chi^2$/NDF: 2829653.1/47

Right: 109.568+/-0.017 $\chi^2$/NDF: 1530644.4/44

In: 113.808+/-0.016 $\chi^2$/NDF:1635287.5/42

Out: 113.642+/-0.015 $\chi^2$/NDF:2817428.3/49

All: 113.721+/-0.011 $\chi^2$/NDF: 4452773.8/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.0/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.6/22

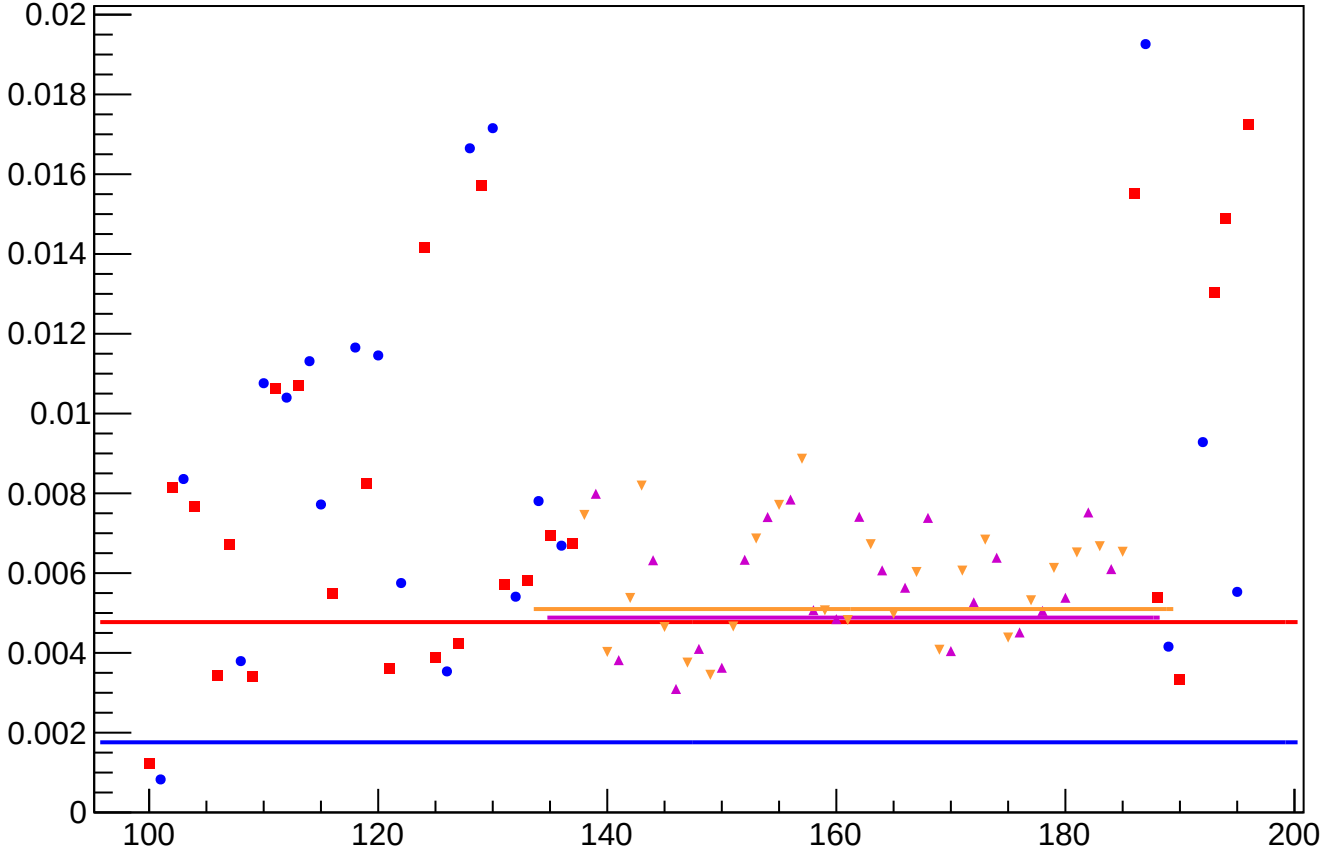
Left: -0.000+/-0.000 $\chi^2$/NDF: 48.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.1/44

In: -0.000+/-0.000 $\chi^2$/NDF:41.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:60.2/49

All: -0.000+/-0.000 $\chi^2$/NDF: 101.4/92




Right In: 0.002+/-0.000 $\chi^2$/NDF: 11733864.0/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:2378649.6/24

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 6192872.6/24

Left In: 0.005+/-0.000 $\chi^2$/NDF:2725463.9/22

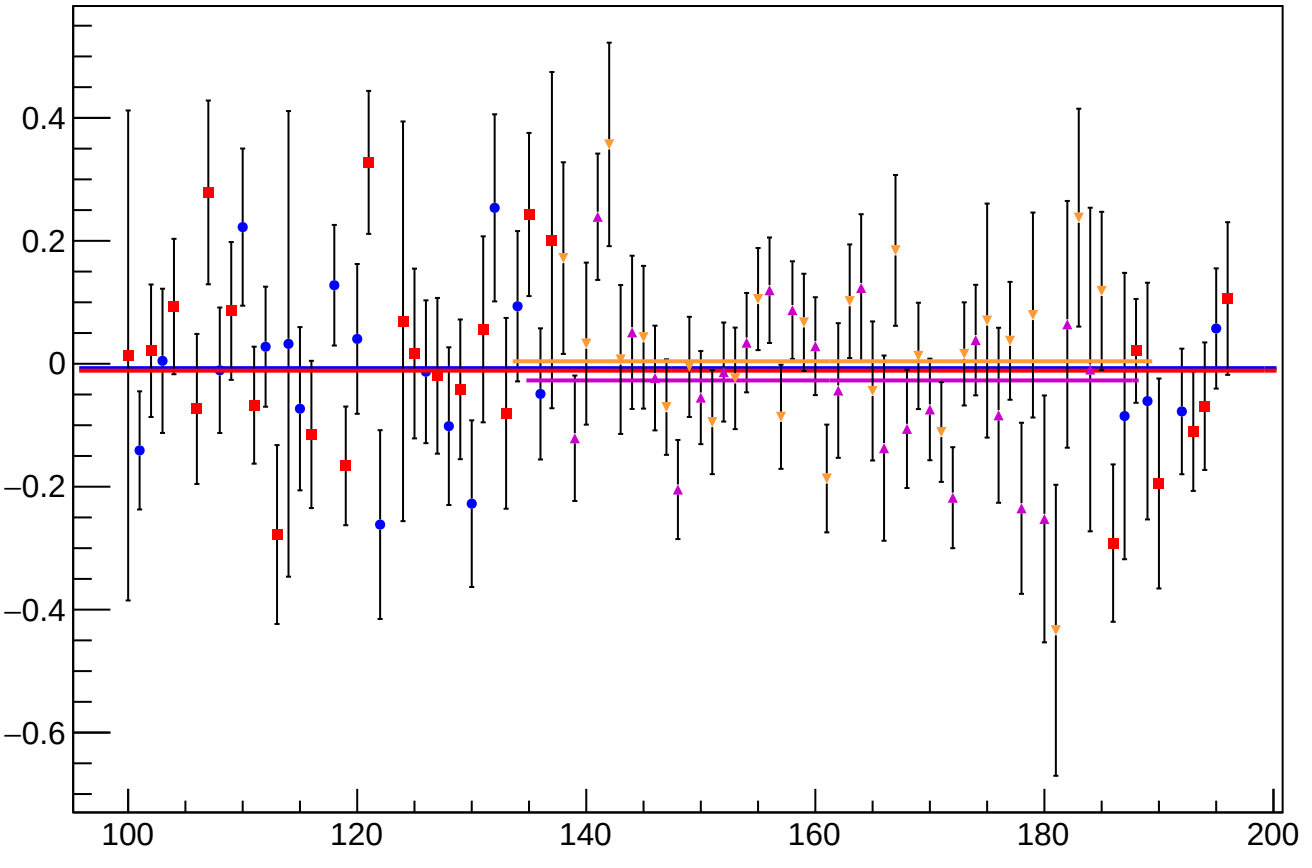
Left: 0.005+/-0.000 $\chi^2$/NDF: 5135847.3/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 22573186.4/44

In: 0.003+/-0.000 $\chi^2$/NDF:22879802.6/42

Out: 0.005+/-0.000 $\chi^2$/NDF:8619148.7/49

All: 0.004+/-0.000 $\chi^2$/NDF: 36867472.6/92




Right In: -0.007+/-0.027 $\chi^2$/NDF: 18.4/19

Left Out: 0.004+/-0.020 $\chi^2$/NDF:28.2/24

Right Out: -0.011+/-0.025 $\chi^2$/NDF: 34.5/24

Left In: -0.027+/-0.021 $\chi^2$/NDF:32.0/22

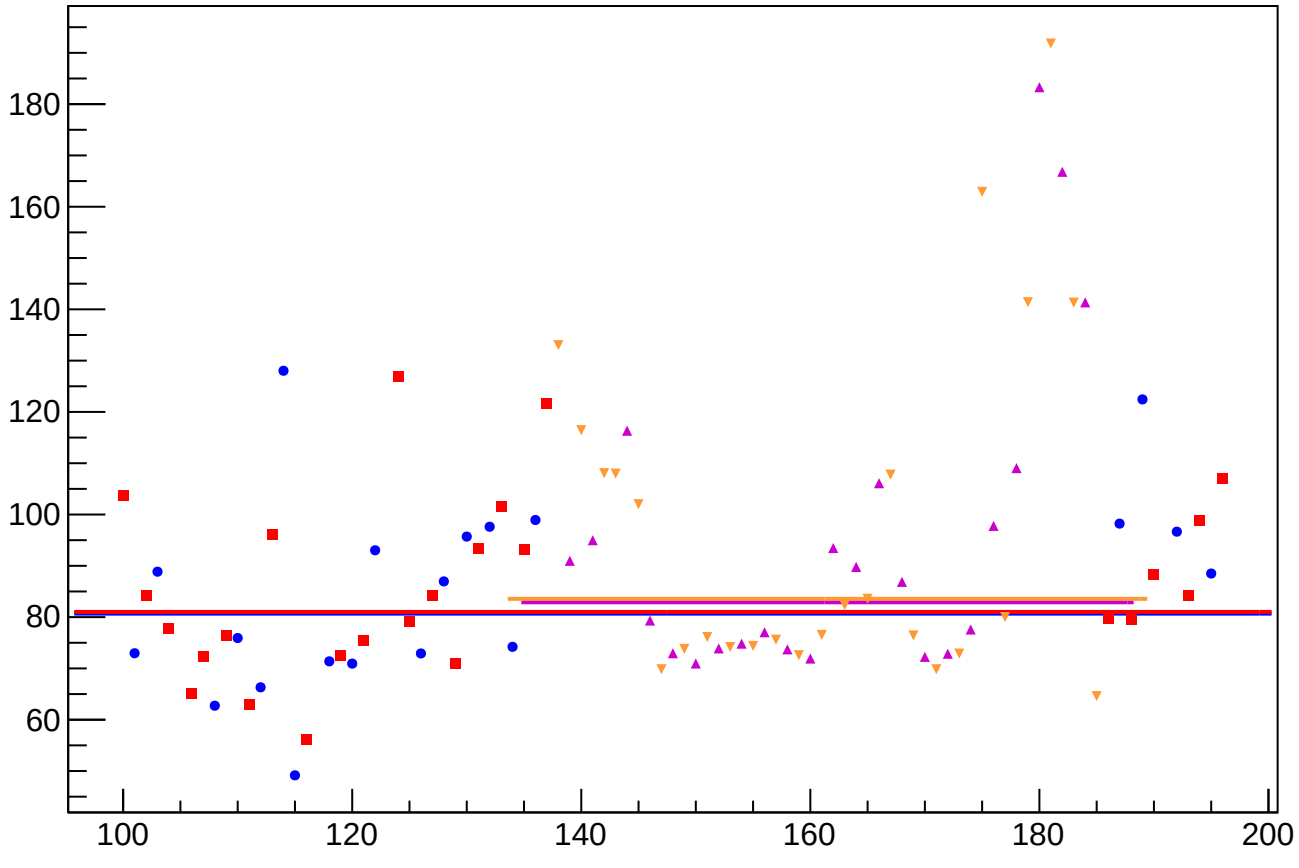
Left: -0.011+/-0.014 $\chi^2$/NDF: 61.3/47

Right: -0.009+/-0.018 $\chi^2$/NDF: 52.9/44

In: -0.020+/-0.016 $\chi^2$/NDF:50.7/42

Out: -0.002+/-0.016 $\chi^2$/NDF:62.9/49

All: -0.011+/-0.011 $\chi^2$/NDF: 114.2/92




Right In: 80.686+/-0.019 $\chi^2$/NDF: 612364.0/19

Left Out: 83.565+/-0.014 $\chi^2$/NDF:2172921.0/24

Right Out: 81.017+/-0.018 $\chi^2$/NDF: 572528.5/24

Left In: 82.891+/-0.015 $\chi^2$/NDF:1572981.0/22

Left: 83.232+/-0.010 $\chi^2$/NDF: 3746990.7/47

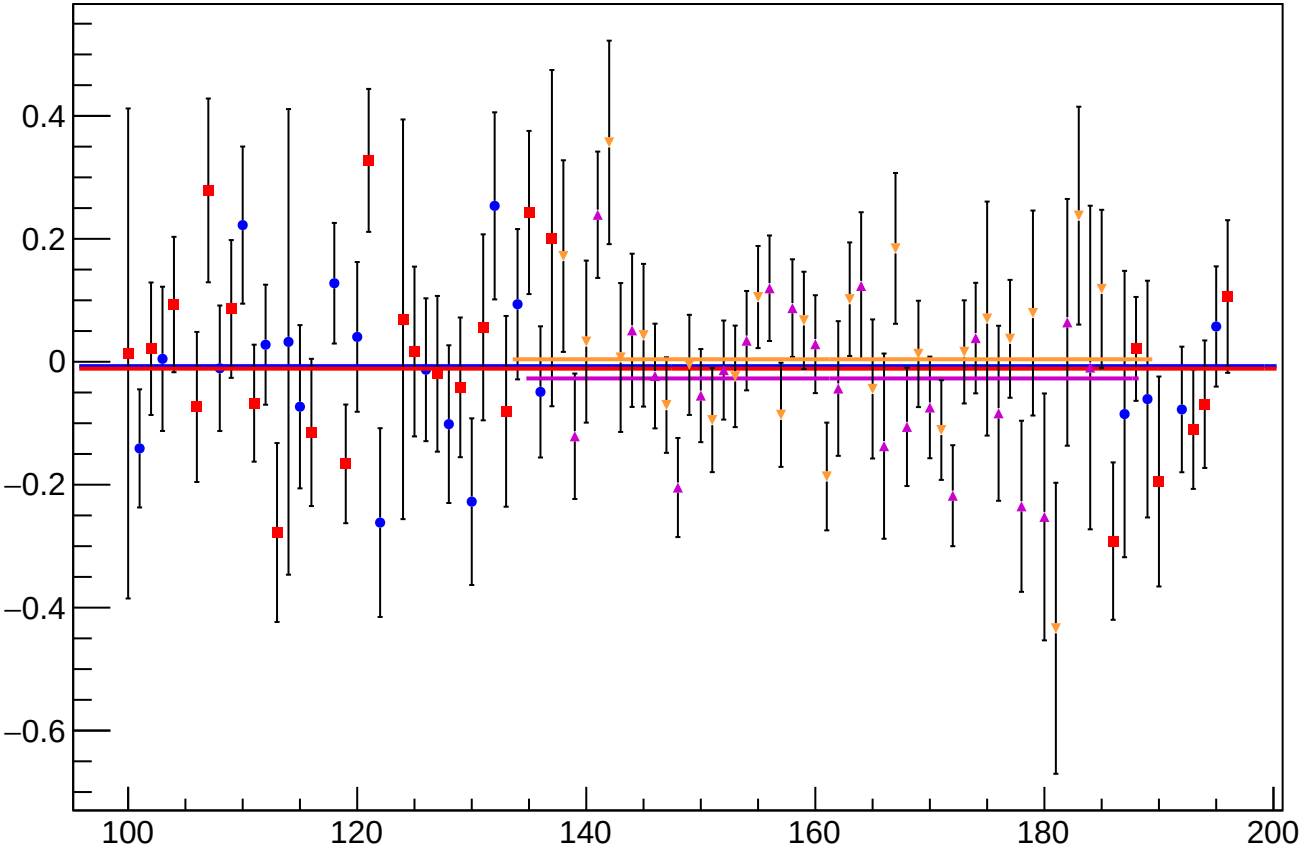
Right: 80.867+/-0.013 $\chi^2$/NDF: 1185055.1/44

In: 82.089+/-0.012 $\chi^2$/NDF:2193719.9/42

Out: 82.541+/-0.011 $\chi^2$/NDF:2758108.9/49

All: 82.325+/-0.008 $\chi^2$/NDF: 4952620.3/92

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.027 $\chi^2$/NDF: 18.4/19

Left Out: 0.004+/-0.020 $\chi^2$/NDF:28.2/24

Right Out: -0.011+/-0.025 $\chi^2$/NDF: 34.5/24

Left In: -0.027+/-0.021 $\chi^2$/NDF:32.0/22

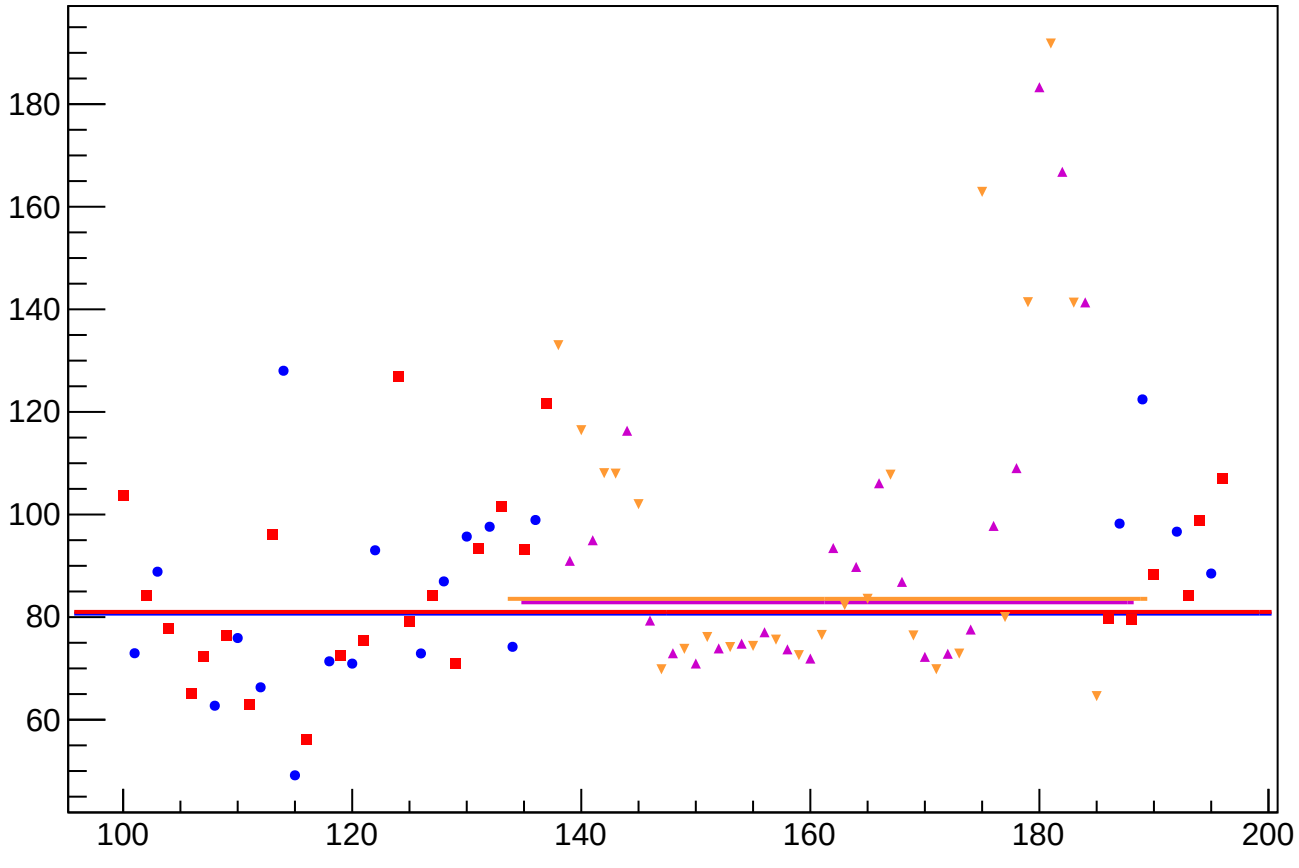
Left: -0.011+/-0.014 $\chi^2$/NDF: 61.3/47

Right: -0.009+/-0.018 $\chi^2$/NDF: 52.9/44

In: -0.020+/-0.016 $\chi^2$/NDF:50.7/42

Out: -0.002+/-0.016 $\chi^2$/NDF:62.9/49

All: -0.011+/-0.011 $\chi^2$/NDF: 114.2/92




Right In: 80.686+/-0.019 $\chi^2$/NDF: 612364.0/19

Left Out: 83.565+/-0.014 $\chi^2$/NDF:2172921.0/24

Right Out: 81.017+/-0.018 $\chi^2$/NDF: 572528.5/24

Left In: 82.891+/-0.015 $\chi^2$/NDF:1572981.0/22

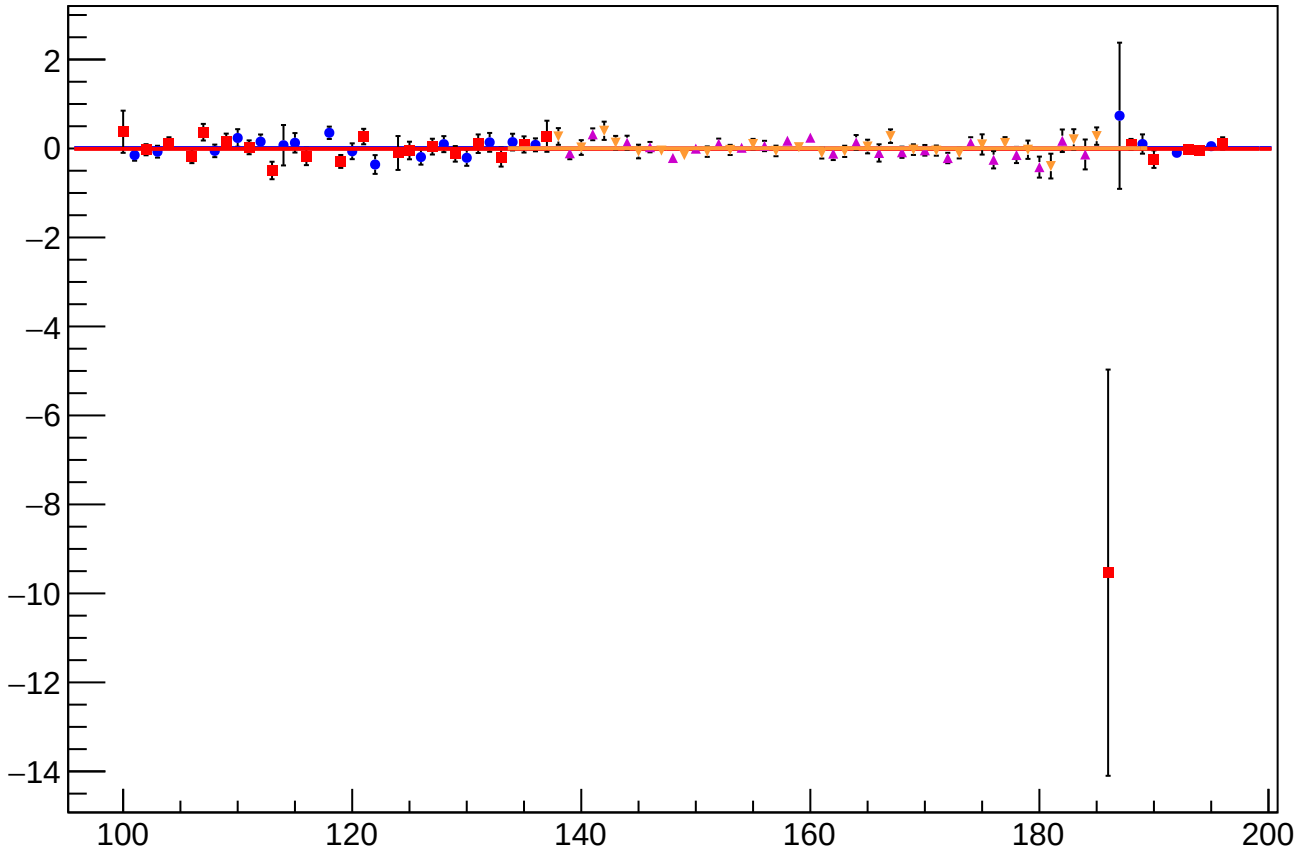
Left: 83.232+/-0.010 $\chi^2$/NDF: 3746990.7/47

Right: 80.867+/-0.013 $\chi^2$/NDF: 1185055.1/44

In: 82.089+/-0.012 $\chi^2$/NDF:2193719.9/42

Out: 82.541+/-0.011 $\chi^2$/NDF:2758108.9/49

All: 82.325+/-0.008 $\chi^2$/NDF: 4952620.3/92




Right In: 0.009+/-0.037 $\chi^2$/NDF: 19.6/19

Left Out: 0.006+/-0.028 $\chi^2$/NDF:21.3/24

Right Out: -0.009+/-0.033 $\chi^2$/NDF: 31.1/24

Left In: 0.010+/-0.028 $\chi^2$/NDF:31.3/22

Left: 0.008+/-0.020 $\chi^2$/NDF: 52.6/47

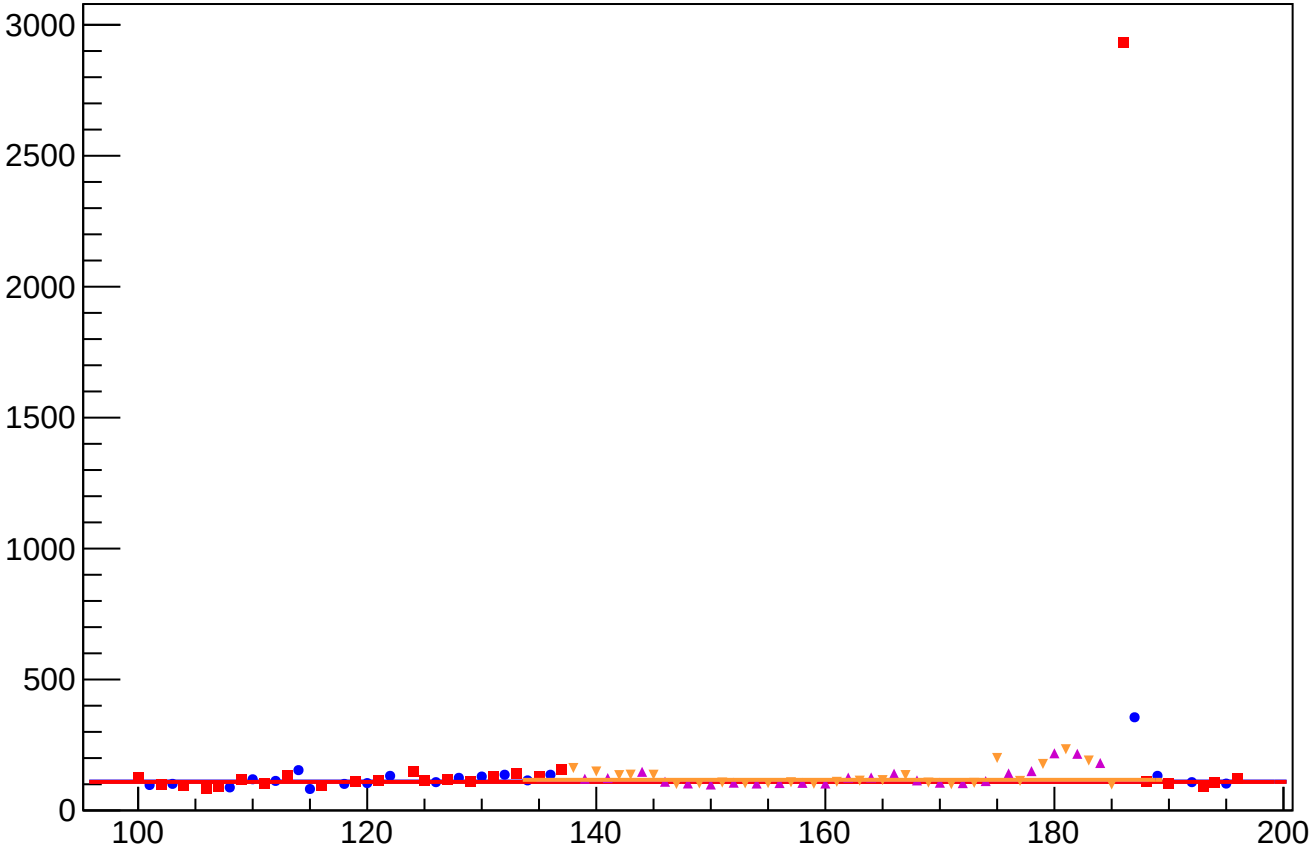
Right: -0.001+/-0.025 $\chi^2$/NDF: 50.8/44

In: 0.010+/-0.022 $\chi^2$/NDF:50.9/42

Out: 0.000+/-0.021 $\chi^2$/NDF:52.5/49

All: 0.005+/-0.015 $\chi^2$/NDF: 103.5/92

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs Slug, Sign Corrected




Right In: 110.310+/-0.026 $\chi^2$/NDF: 375222.8/19

Left Out: 116.880+/-0.020 $\chi^2$/NDF:1596928.7/24

Right Out: 108.955+/-0.024 $\chi^2$/NDF: 1153885.3/24

Left In: 115.858+/-0.020 $\chi^2$/NDF:1231371.8/22

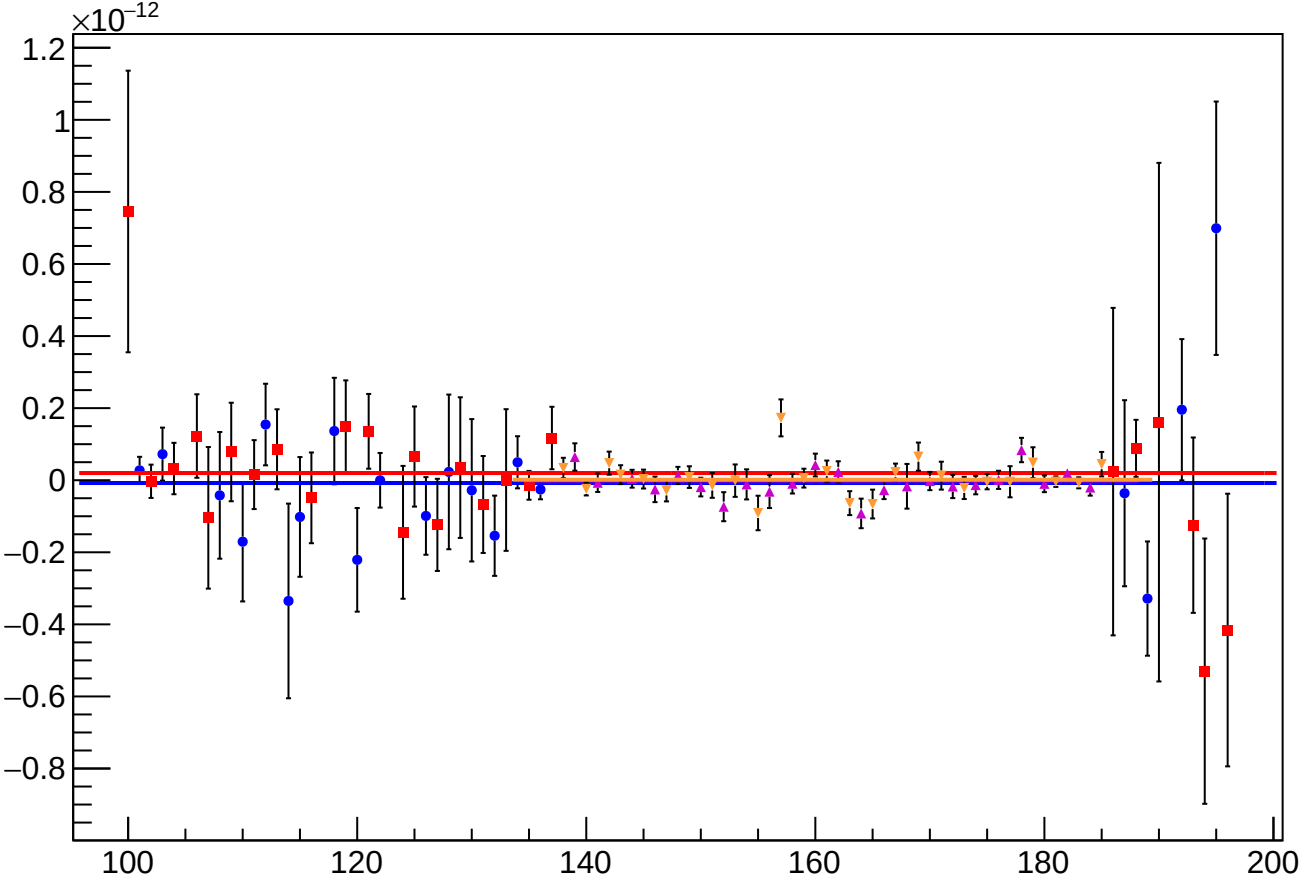
Left: 116.377+/-0.014 $\chi^2$/NDF: 2829636.7/47

Right: 109.567+/-0.017 $\chi^2$/NDF: 1530594.5/44

In: 113.808+/-0.016 $\chi^2$/NDF:1635271.9/42

Out: 113.642+/-0.015 $\chi^2$/NDF:2817412.3/49

All: 113.721+/-0.011 $\chi^2$/NDF: 4452742.0/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:36.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.3/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:26.7/22

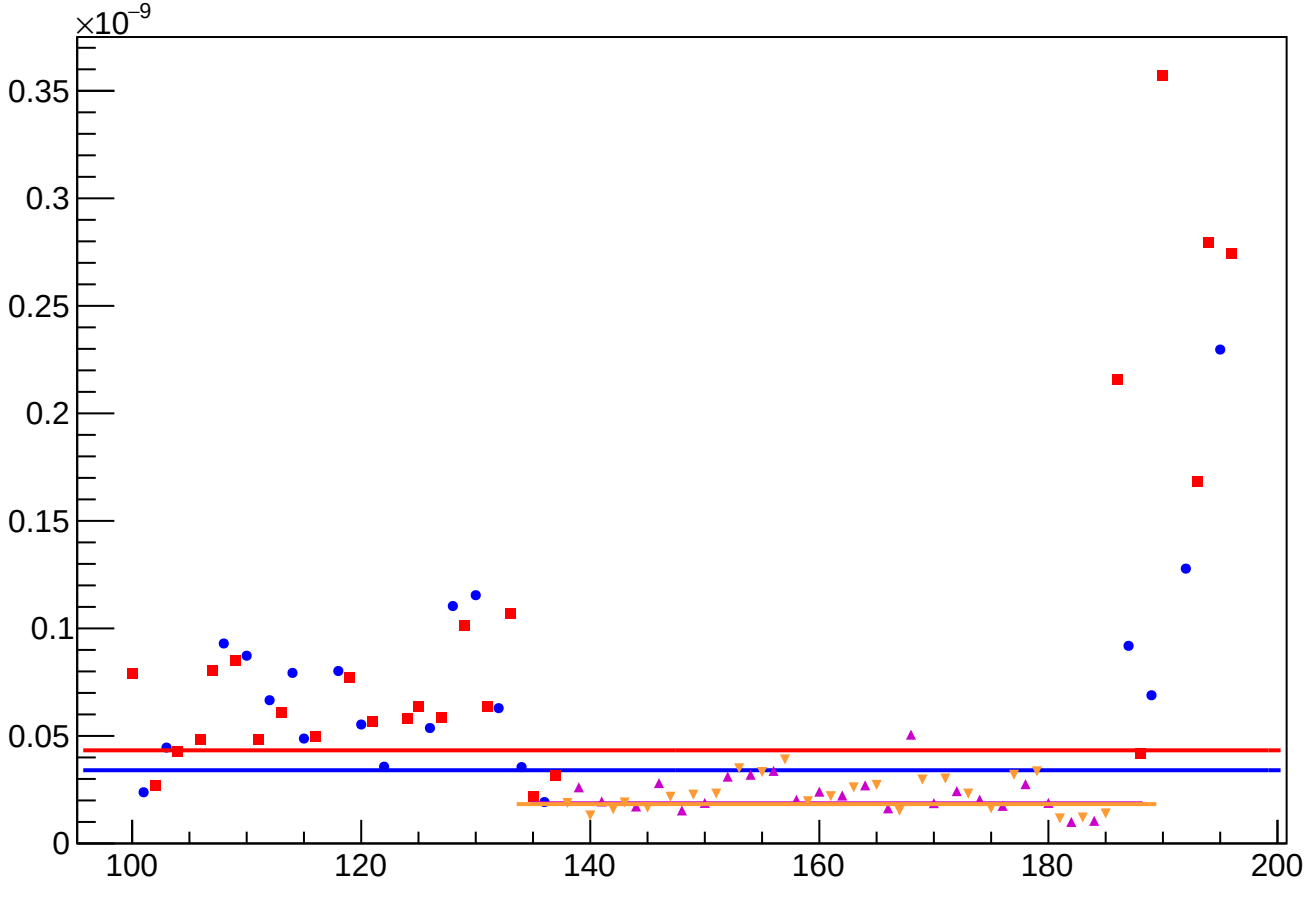
Left: 0.000+/-0.000 $\chi^2$/NDF: 63.4/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 41.2/44

In: -0.000+/-0.000 $\chi^2$/NDF:49.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:54.7/49

All: 0.000+/-0.000 $\chi^2$/NDF: 104.7/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3758912.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3029080.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4676259.4/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:2908977.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5943205.7/47

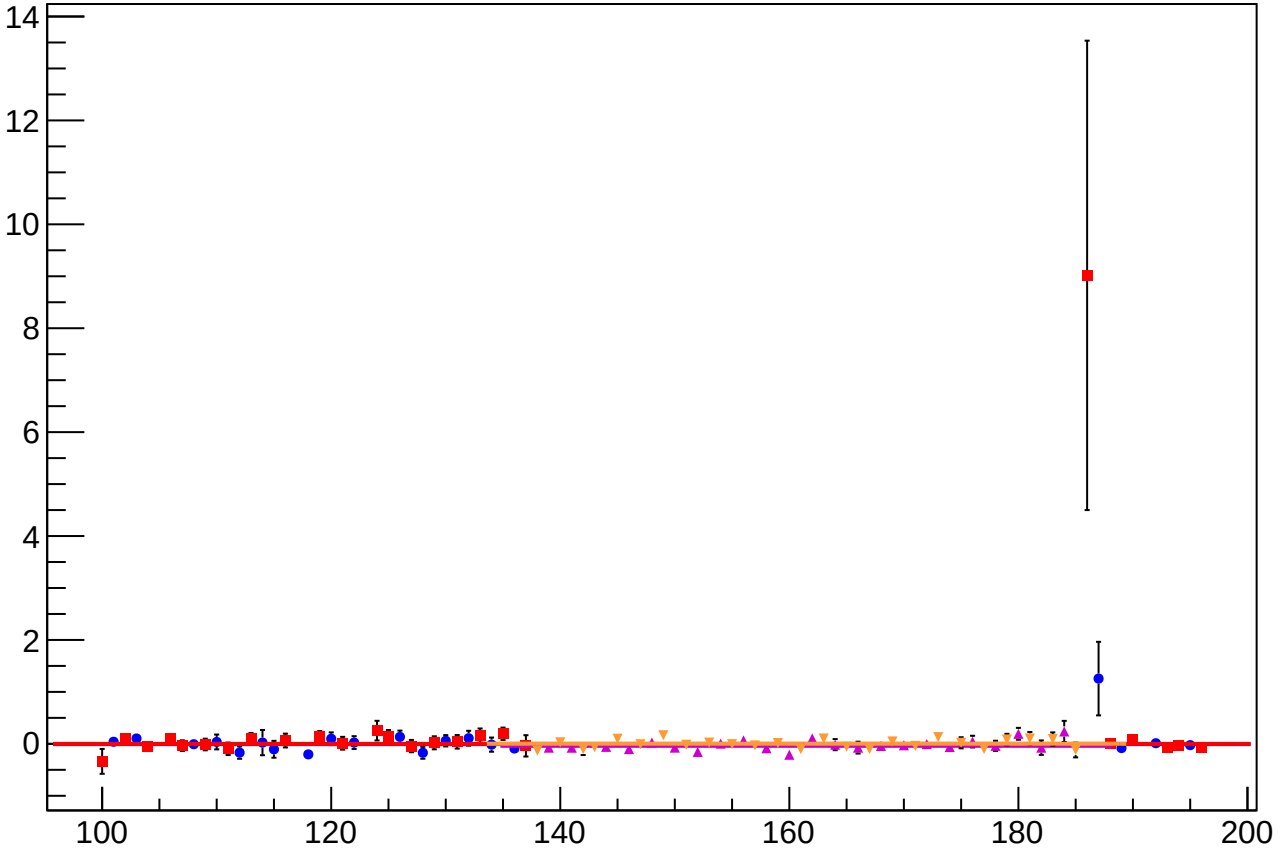
Right: 0.000+/-0.000 $\chi^2$/NDF: 8672607.9/44

In: 0.000+/-0.000 $\chi^2$/NDF:8039386.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10553823.5/49

All: 0.000+/-0.000 $\chi^2$/NDF: 18593954.8/92

asym_usr_overload_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 21.7/19

Left Out: 0.003+/-0.017 $\chi^2$/NDF:21.5/24

Right Out: -0.001+/-0.016 $\chi^2$/NDF: 32.8/24

Left In: -0.038+/-0.018 $\chi^2$/NDF:21.6/22

Left: -0.017+/-0.012 $\chi^2$/NDF: 45.8/47

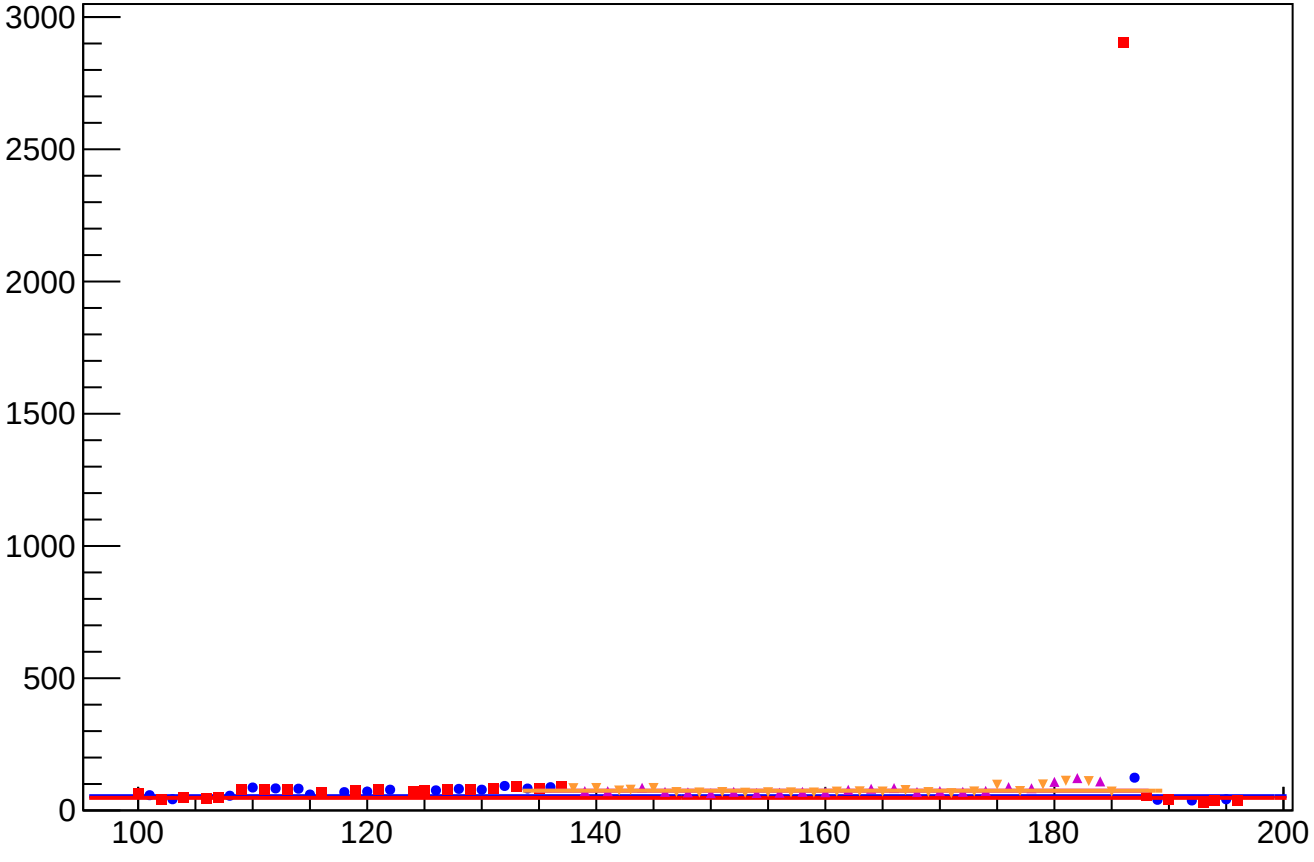
Right: -0.003+/-0.012 $\chi^2$/NDF: 54.5/44

In: -0.022+/-0.013 $\chi^2$/NDF:45.0/42

Out: 0.001+/-0.012 $\chi^2$/NDF:54.4/49

All: -0.010+/-0.009 $\chi^2$/NDF: 101.1/92

asym_usr_overload_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.923+/-0.013 $\chi^2$/NDF: 1883642.8/19

Left Out: 74.749+/-0.012 $\chi^2$/NDF:744366.0/24

Right Out: 47.646+/-0.011 $\chi^2$/NDF: 3483304.1/24

Left In: 74.601+/-0.013 $\chi^2$/NDF:713751.1/22

Left: 74.677+/-0.009 $\chi^2$/NDF: 1458187.6/47

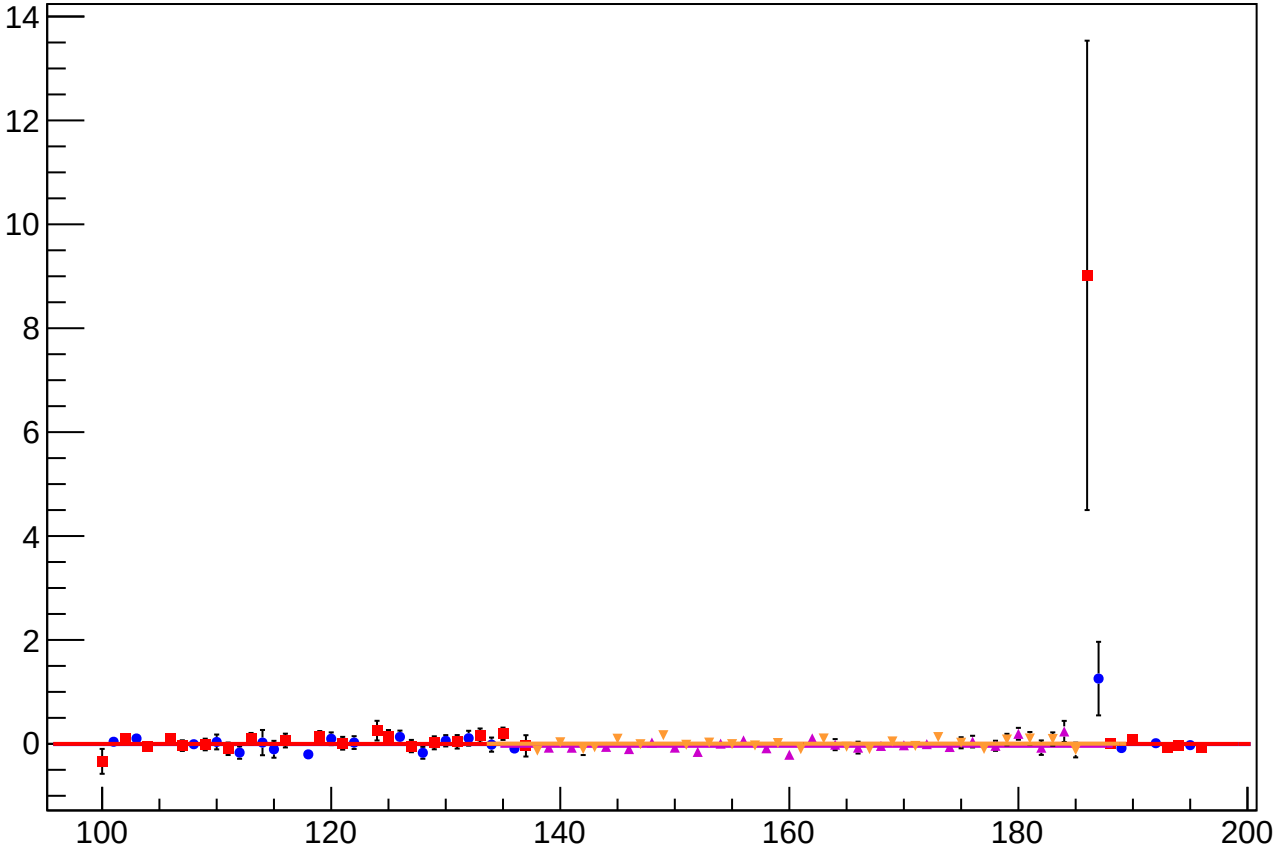
Right: 50.230+/-0.009 $\chi^2$/NDF: 5498872.5/44

In: 64.753+/-0.009 $\chi^2$/NDF:3871929.5/42

Out: 59.775+/-0.008 $\chi^2$/NDF:6900734.3/49

All: 62.005+/-0.006 $\chi^2$/NDF: 10936118.2/92

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 21.7/19

Left Out: 0.003+/-0.017 $\chi^2$/NDF:21.5/24

Right Out: -0.001+/-0.016 $\chi^2$/NDF: 32.8/24

Left In: -0.038+/-0.018 $\chi^2$/NDF:21.6/22

Left: -0.017+/-0.012 $\chi^2$/NDF: 45.8/47

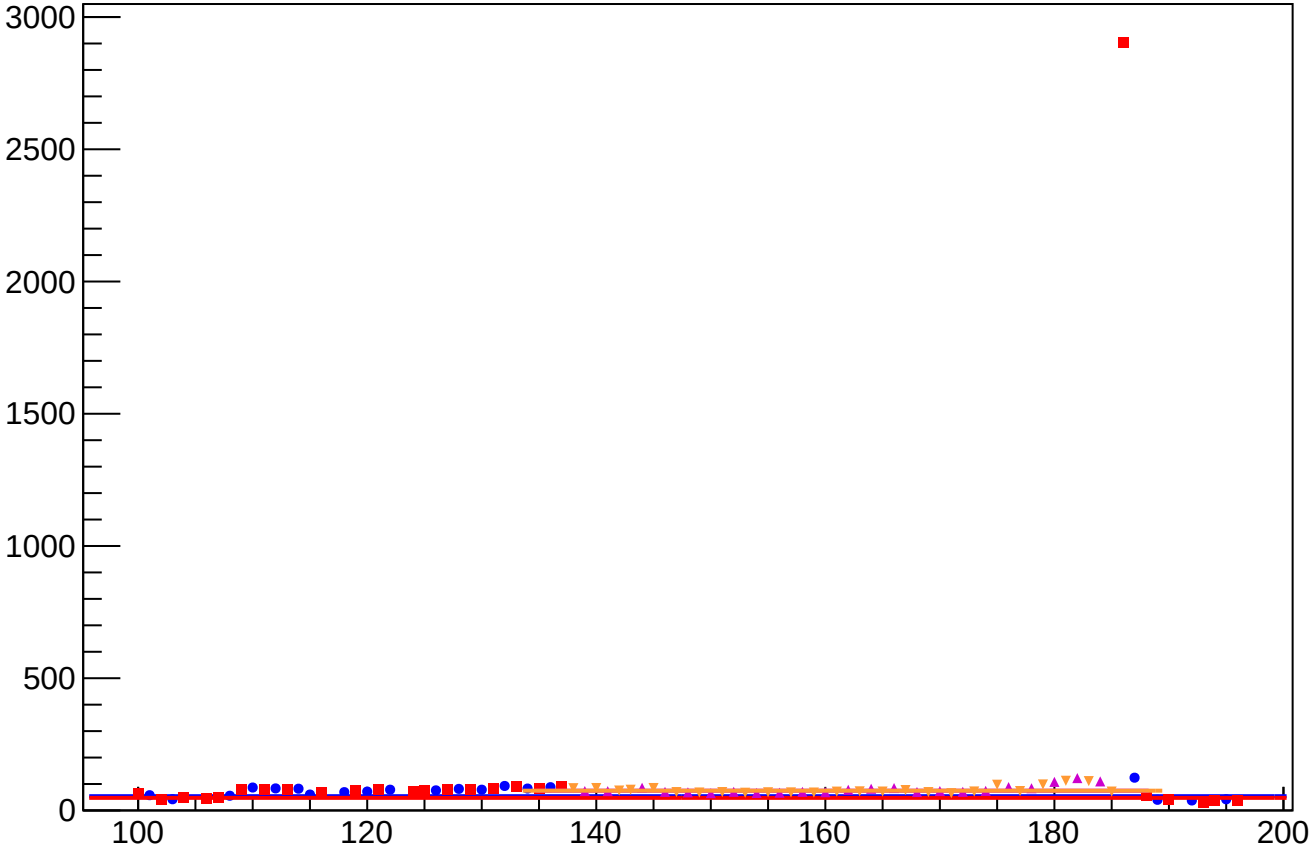
Right: -0.003+/-0.012 $\chi^2$/NDF: 54.5/44

In: -0.022+/-0.013 $\chi^2$/NDF:45.0/42

Out: 0.001+/-0.012 $\chi^2$/NDF:54.4/49

All: -0.010+/-0.009 $\chi^2$/NDF: 101.1/92

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 53.923+/-0.013 $\chi^2$/NDF: 1883642.8/19

Left Out: 74.749+/-0.012 $\chi^2$/NDF:744366.0/24

Right Out: 47.646+/-0.011 $\chi^2$/NDF: 3483304.1/24

Left In: 74.601+/-0.013 $\chi^2$/NDF:713751.1/22

Left: 74.677+/-0.009 $\chi^2$/NDF: 1458187.6/47

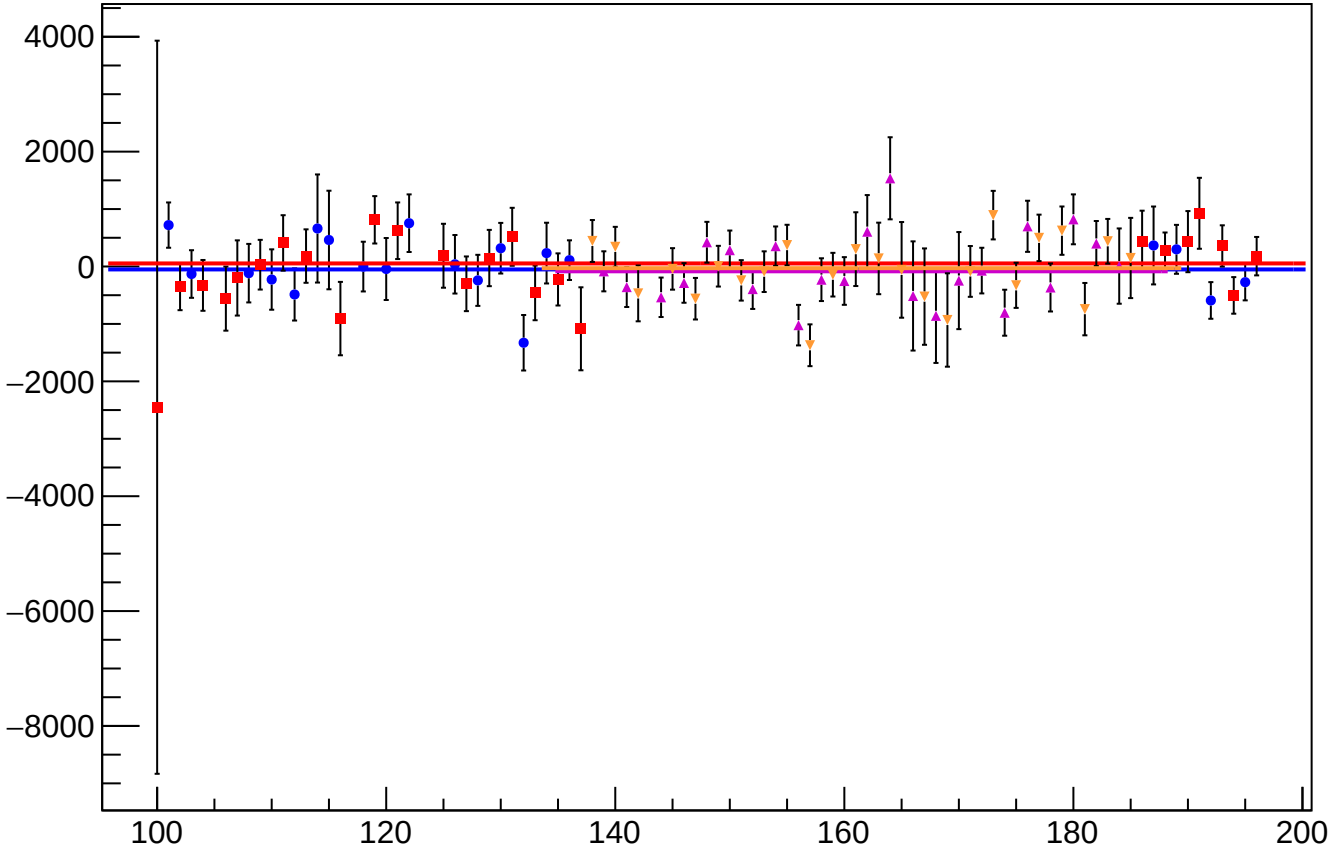
Right: 50.230+/-0.009 $\chi^2$/NDF: 5498872.5/44

In: 64.753+/-0.009 $\chi^2$/NDF:3871929.5/42

Out: 59.775+/-0.008 $\chi^2$/NDF:6900734.3/49

All: 62.005+/-0.006 $\chi^2$/NDF: 10936118.2/92

# asym_dsl_mean vs Slug, Sign Corrected




Right In: -51.153+/-101.240 $\chi^2$/NDF: 21.3/19

Left Out: -29.346+/-86.530 $\chi^2$/NDF:36.6/23

Right Out: 53.244+/-92.532 $\chi^2$/NDF: 23.9/24

Left In: -83.719+/-86.476 $\chi^2$/NDF:35.8/22

Left: -56.550+/-61.167 $\chi^2$/NDF: 72.6/46

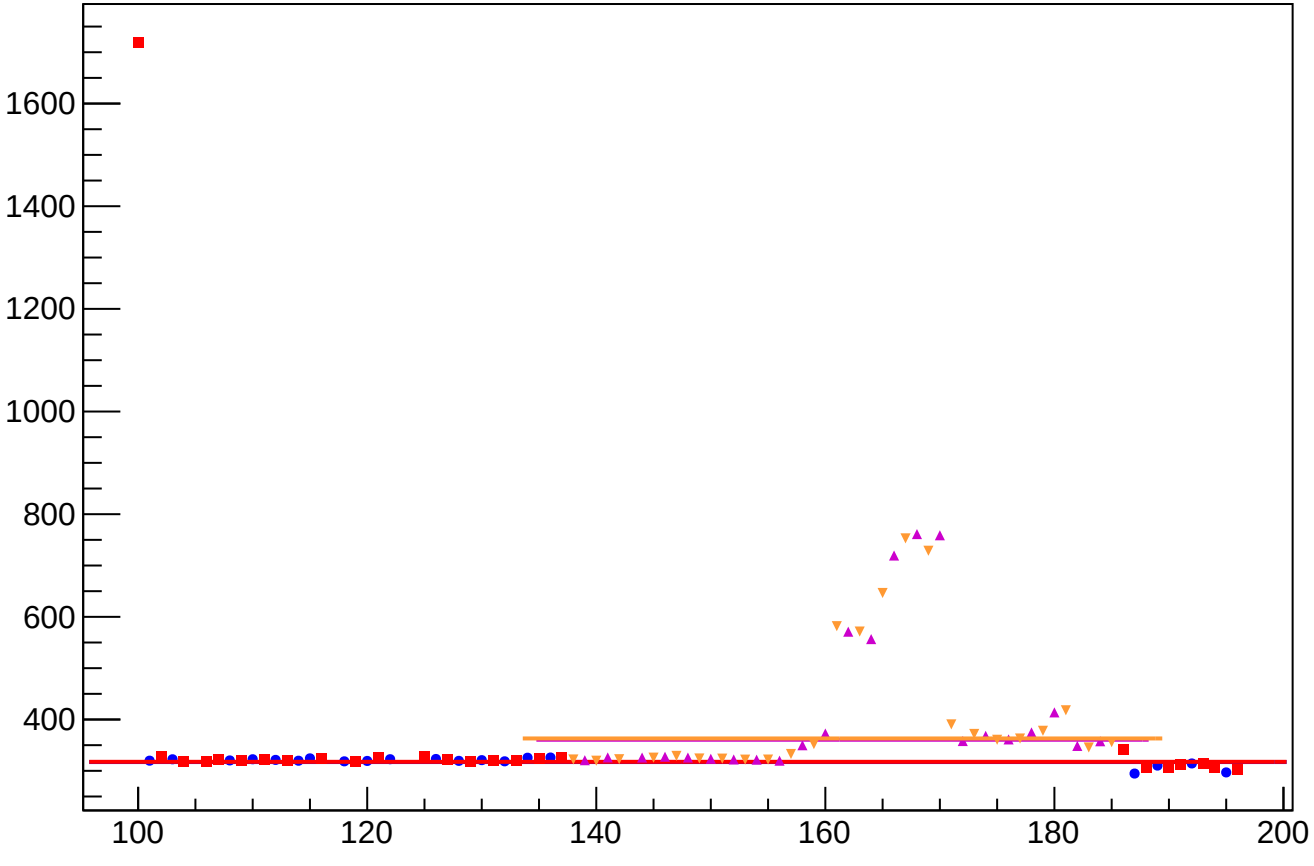
Right: 5.728+/-68.302 $\chi^2$/NDF: 45.7/44

In: -69.982+/-65.754 $\chi^2$/NDF:57.1/42

Out: 9.184+/-63.201 $\chi^2$/NDF:60.8/48

All: -28.833+/-45.566 $\chi^2$/NDF: 118.7/91

# asym_dsl_rms vs Slug, Sign Corrected




Right In: 317.117+/-0.072 $\chi^2$/NDF: 14616.8/19

Left Out: 363.079+/-0.061 $\chi^2$/NDF:1795570.0/23

Right Out: 317.559+/-0.065 $\chi^2$/NDF: 114532.7/24

Left In: 360.585+/-0.061 $\chi^2$/NDF:1817691.0/22

Left: 361.831+/-0.043 $\chi^2$/NDF: 3614092.1/46

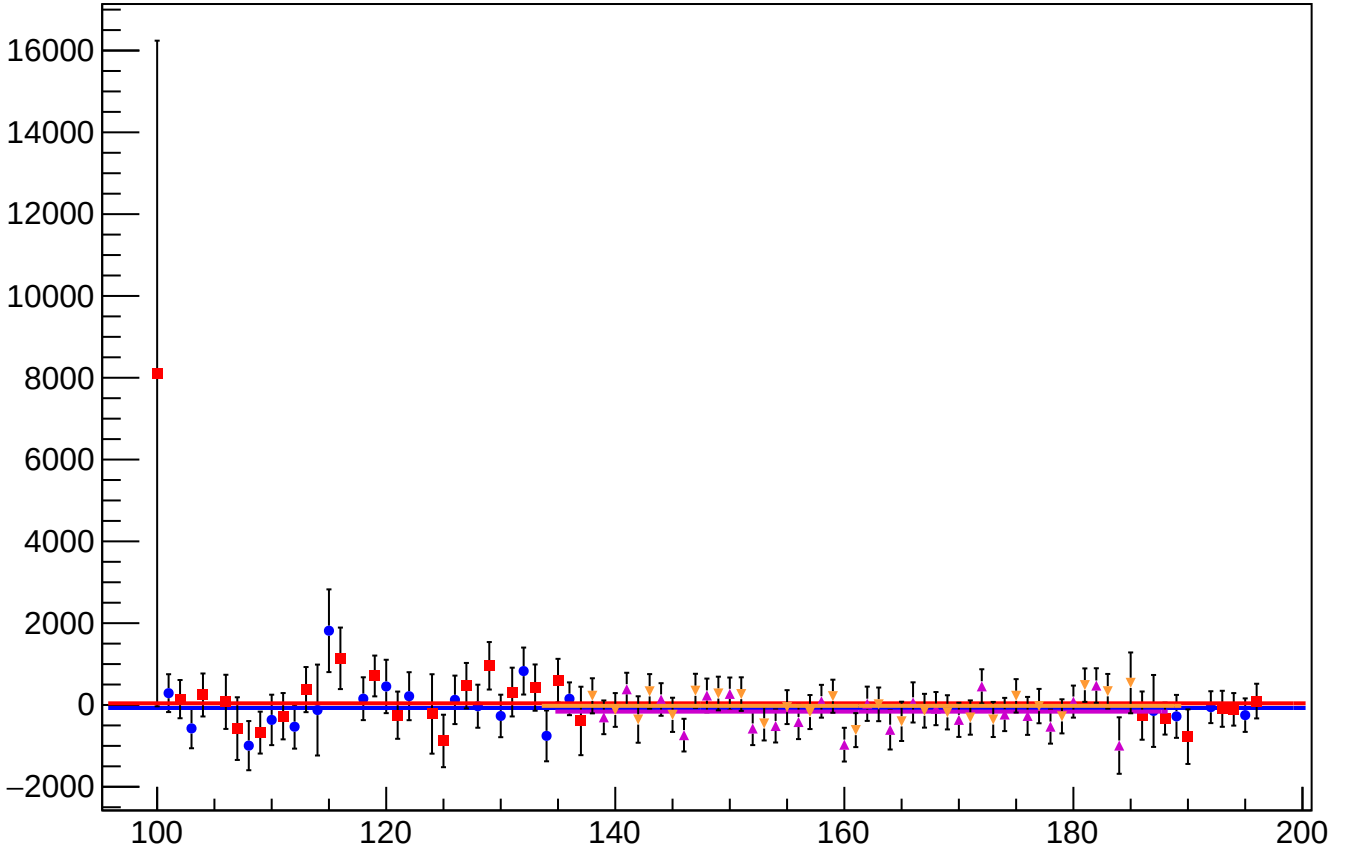
Right: 317.358+/-0.048 $\chi^2$/NDF: 129170.3/44

In: 342.249+/-0.046 $\chi^2$/NDF:2045473.3/42

Out: 341.843+/-0.045 $\chi^2$/NDF:2168310.5/48

All: 342.038+/-0.032 $\chi^2$/NDF: 4213823.4/91

# asym_dsr_mean vs Slug, Sign Corrected




Right In: -73.559+/-121.296 $\chi^2$/NDF: 14.1/19

Left Out: -21.061+/-85.620 $\chi^2$/NDF:12.6/24

Right Out: 40.009+/-111.440 $\chi^2$/NDF: 18.8/24

Left In: -162.992+/-87.991 $\chi^2$/NDF:21.8/22

Left: -90.087+/-61.364 $\chi^2$/NDF: 35.7/47

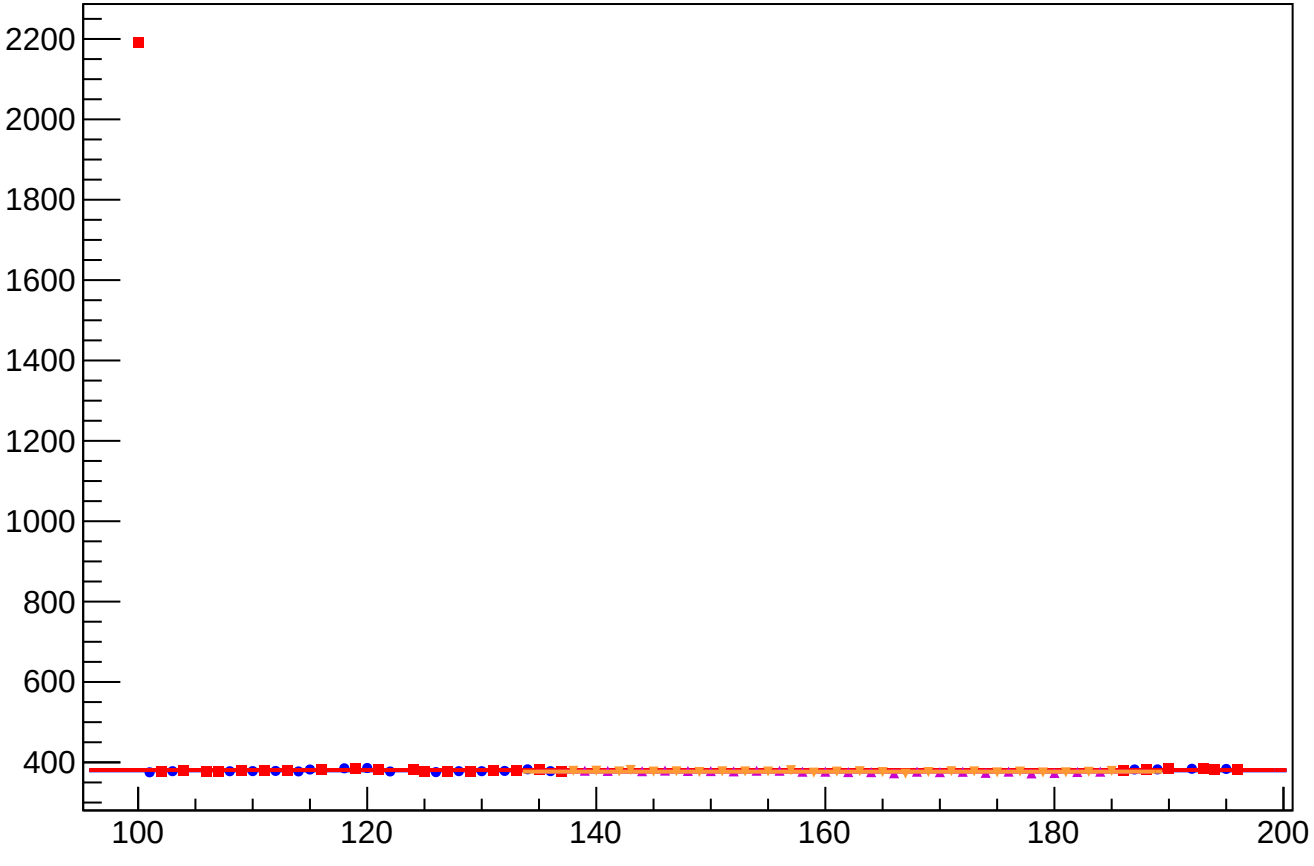
Right: -11.974+/-82.063 $\chi^2$/NDF: 33.4/44

In: -132.156+/-71.224 $\chi^2$/NDF:36.3/42

Out: 1.607+/-67.895 $\chi^2$/NDF:31.6/49

All: -62.074+/-49.144 $\chi^2$/NDF: 69.7/92

# asym_dsr_rms vs Slug, Sign Corrected




Right In: 380.076+/-0.086 $\chi^2$/NDF: 1400.7/19

Left Out: 376.906+/-0.061 $\chi^2$/NDF:1058.3/24

Right Out: 381.001+/-0.079 $\chi^2$/NDF: 100130.3/24

Left In: 376.846+/-0.062 $\chi^2$/NDF:1074.1/22

Left: 376.877+/-0.043 $\chi^2$/NDF: 2132.9/47

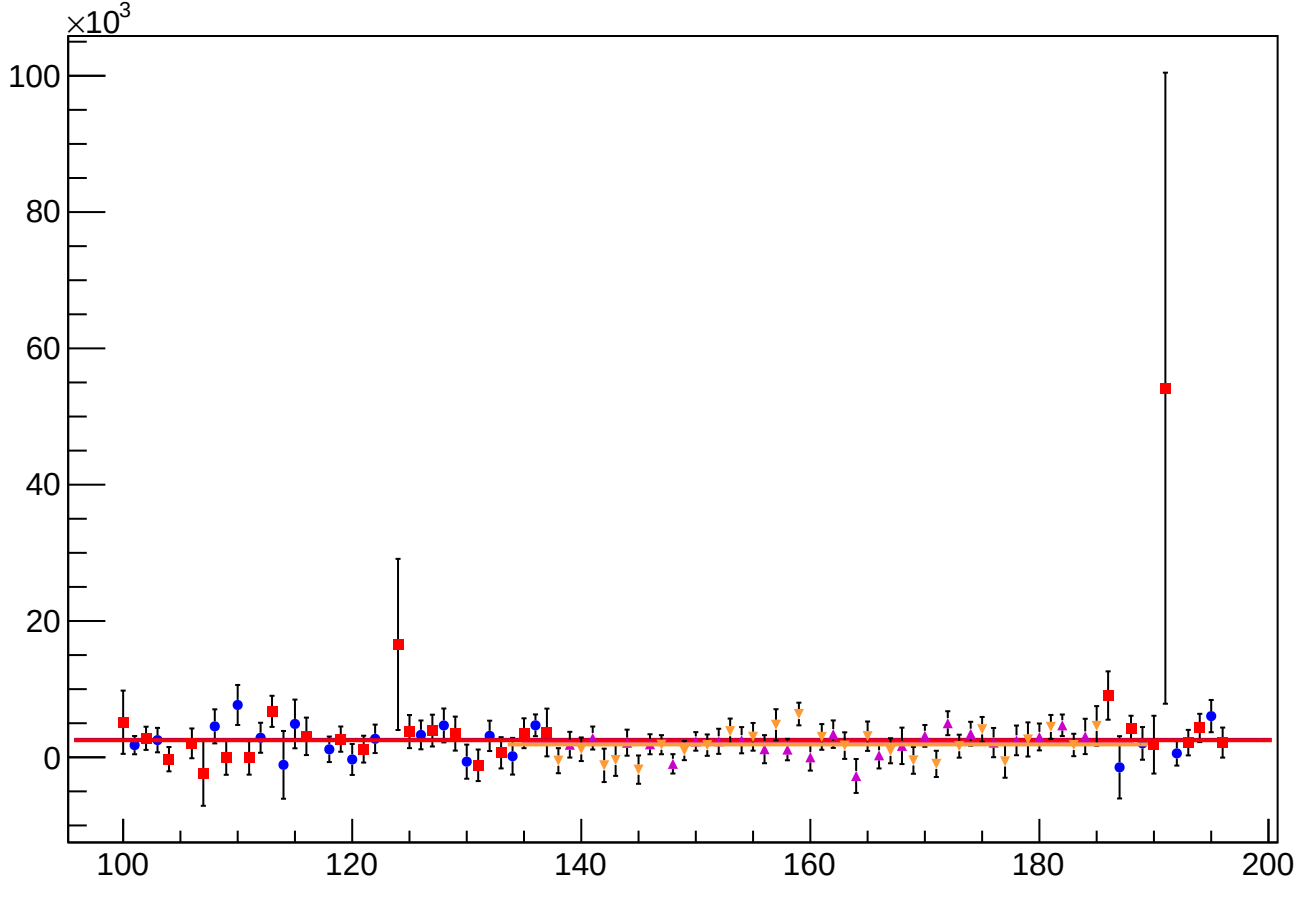
Right: 380.578+/-0.058 $\chi^2$/NDF: 101594.0/44

In: 377.960+/-0.050 $\chi^2$/NDF:3404.2/42

Out: 378.426+/-0.048 $\chi^2$/NDF:102886.6/49

All: 378.204+/-0.035 $\chi^2$/NDF: 106335.7/92

# asym_us_agg_avg_mean vs Slug, Sign Corrected




Right In: 2555.725+/-489.979 $\chi^2$/NDF: 16.5/19

Left Out: 1891.201+/-375.290 $\chi^2$/NDF:28.4/24

Right Out: 2504.675+/-472.945 $\chi^2$/NDF: 21.7/25

Left In: 2105.415+/-379.051 $\chi^2$/NDF:18.6/22

Left: 1997.240+/-266.690 $\chi^2$/NDF: 47.1/47

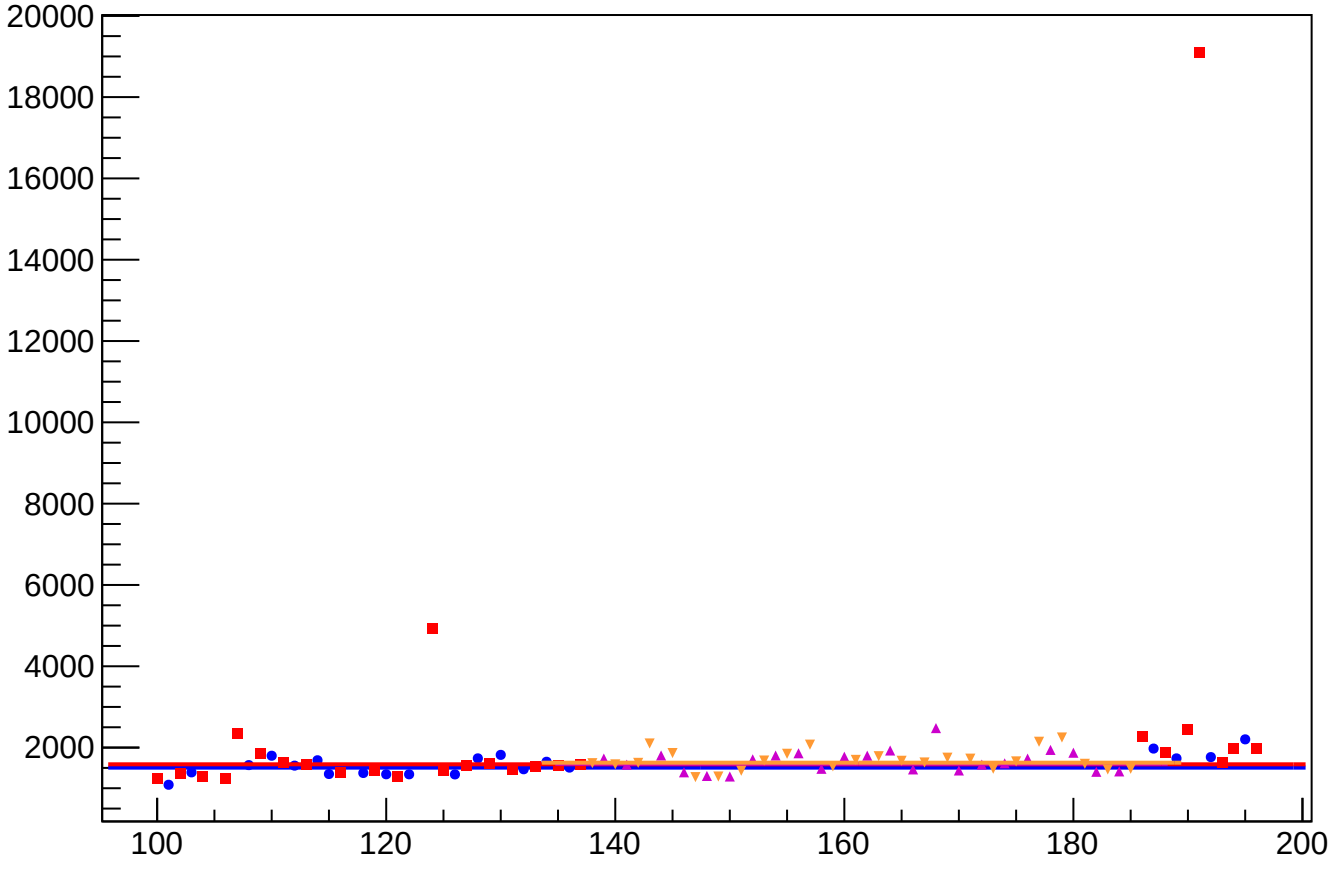
Right: 2529.297+/-340.285 $\chi^2$/NDF: 38.2/45

In: 2274.011+/-299.810 $\chi^2$/NDF:35.6/42

Out: 2128.234+/-293.979 $\chi^2$/NDF:51.1/50

All: 2199.692+/-209.906 $\chi^2$/NDF: 86.8/93

# asym_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 1506.846+/-0.346 $\chi^2$/NDF: 588037.4/19

Left Out: 1628.479+/-0.265 $\chi^2$/NDF:779094.7/24

Right Out: 1588.826+/-0.334 $\chi^2$/NDF: 1075569.7/25

Left In: 1601.496+/-0.268 $\chi^2$/NDF:793722.6/22

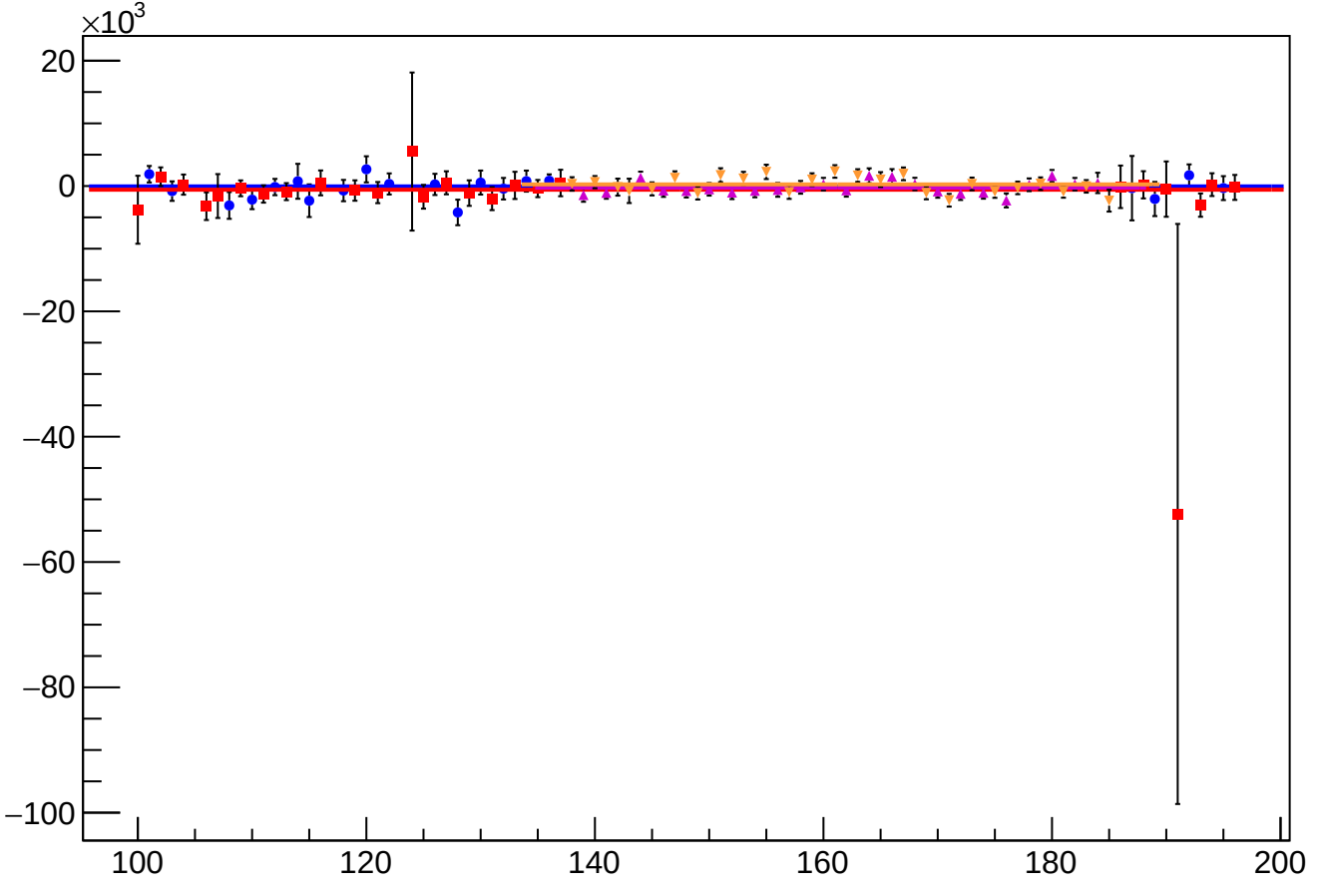
Left: 1615.122+/-0.189 $\chi^2$/NDF: 1577935.0/47

Right: 1549.286+/-0.241 $\chi^2$/NDF: 1692591.2/45

In: 1566.059+/-0.212 $\chi^2$/NDF:1428449.4/42

Out: 1613.158+/-0.208 $\chi^2$/NDF:1863291.4/50

All: 1590.071+/-0.148 $\chi^2$/NDF: 3316904.2/93




Right In: -53.269+/-385.575 $\chi^2$/NDF: 16.1/19

Left Out: 262.383+/-214.962 $\chi^2$/NDF:33.9/24

Right Out: -588.298+/-375.155 $\chi^2$/NDF: 10.1/25

Left In: -267.059+/-217.685 $\chi^2$/NDF:21.4/22

Left: 0.994+/-152.955 $\chi^2$/NDF: 58.3/47

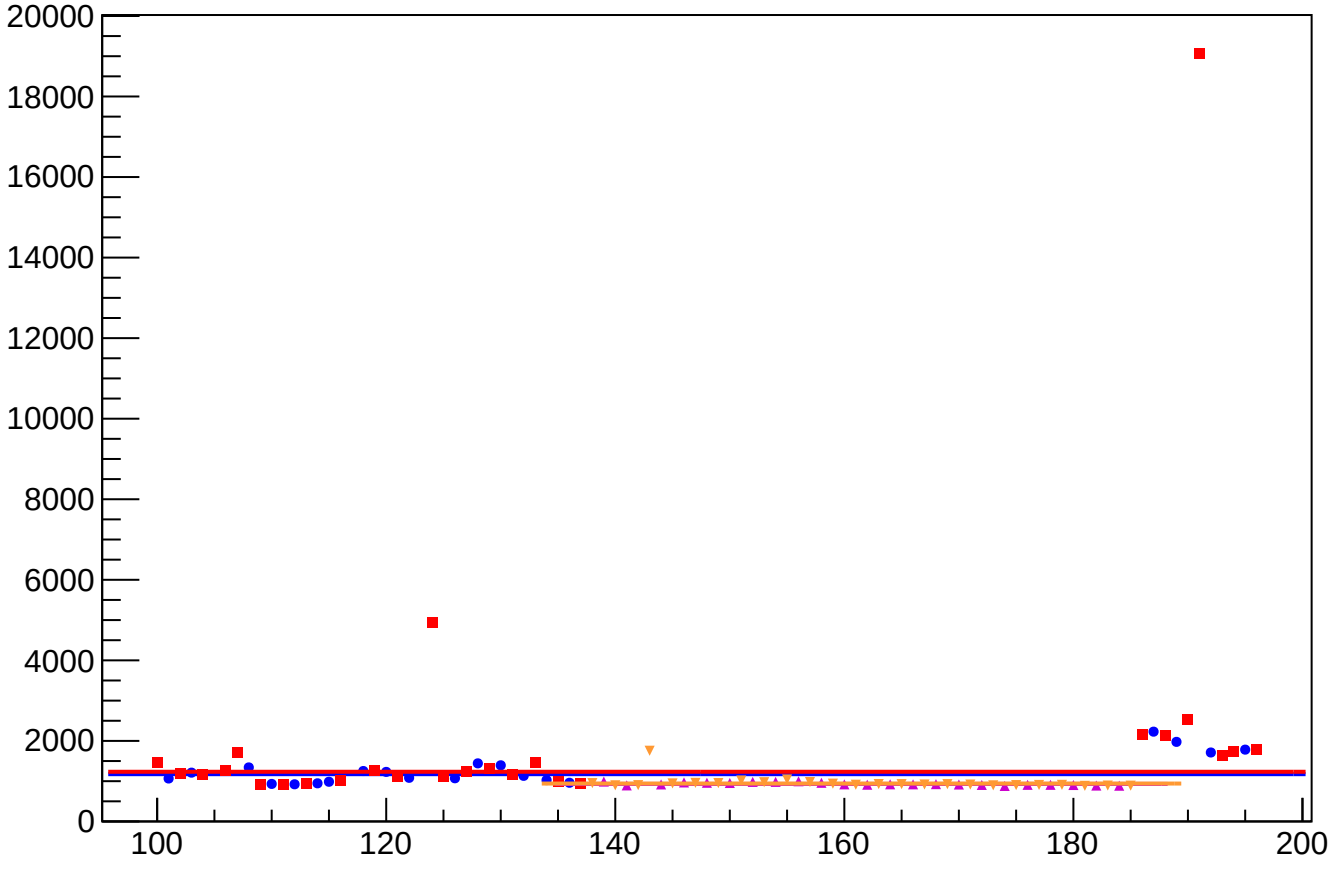
Right: -328.111+/-268.883 $\chi^2$/NDF: 27.3/45

In: -215.386+/-189.561 $\chi^2$/NDF:37.7/42

Out: 52.119+/-186.513 $\chi^2$/NDF:47.9/50

All: -79.466+/-132.949 $\chi^2$/NDF: 86.7/93

# asym_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 1173.804+/-0.273 $\chi^2$/NDF: 1011018.8/19

Left Out: 941.013+/-0.152 $\chi^2$/NDF:417710.2/24

Right Out: 1233.794+/-0.265 $\chi^2$/NDF: 2074054.5/25

Left In: 931.562+/-0.154 $\chi^2$/NDF:48916.1/22

Left: 936.347+/-0.108 $\chi^2$/NDF: 468535.2/47

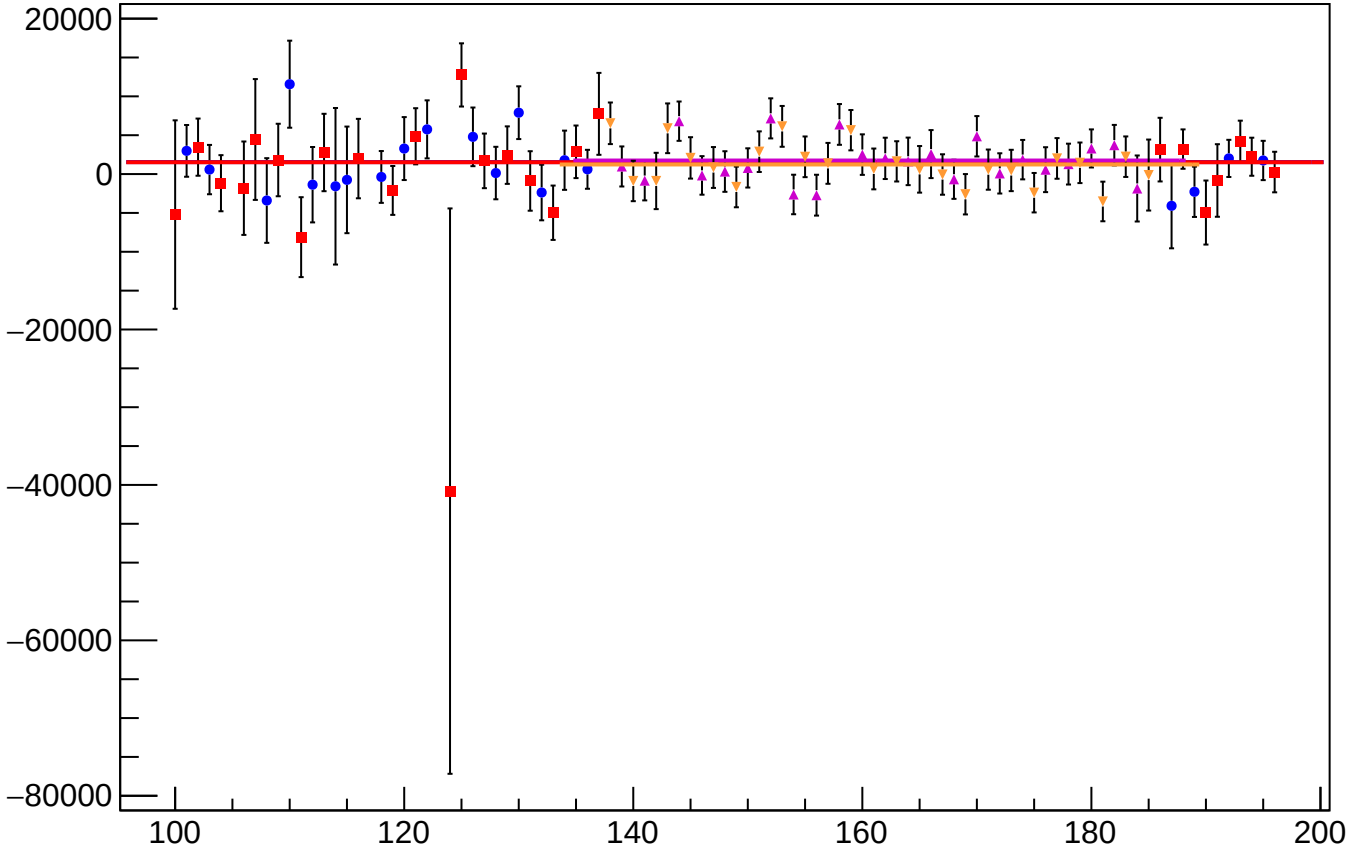
Right: 1204.620+/-0.190 $\chi^2$/NDF: 3109943.6/45

In: 990.112+/-0.134 $\chi^2$/NDF:1658553.2/42

Out: 1013.380+/-0.132 $\chi^2$/NDF:3408805.9/50

All: 1001.935+/-0.094 $\chi^2$/NDF: 5082670.1/93

# reg_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1542.384+/-800.075 $\chi^2$/NDF: 14.9/19

Left Out: 1234.728+/-541.289 $\chi^2$/NDF:23.9/24

Right Out: 1522.377+/-744.680 $\chi^2$/NDF: 26.5/25

Left In: 1741.730+/-553.254 $\chi^2$/NDF:24.4/22

Left: 1482.688+/-386.910 $\chi^2$/NDF: 48.7/47

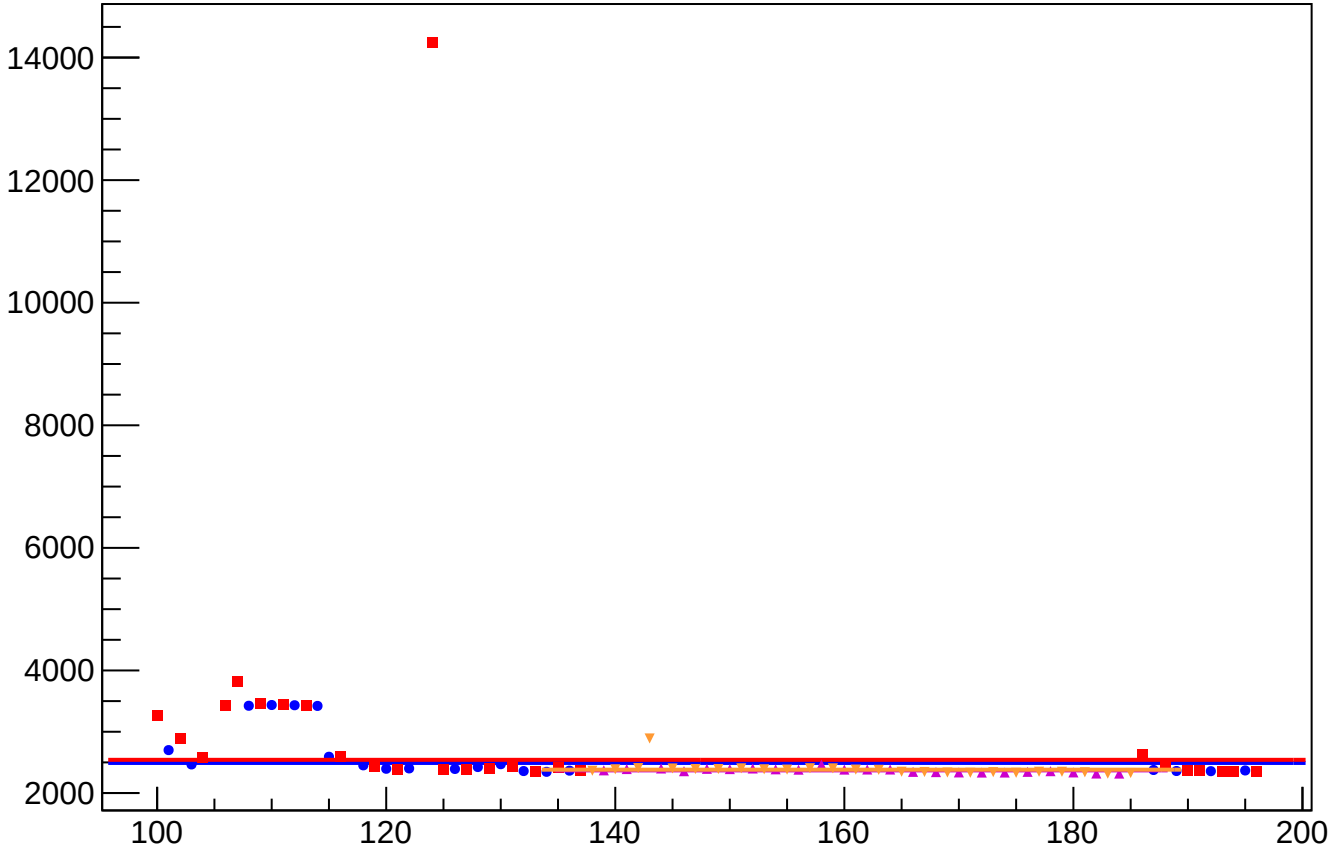
Right: 1531.664+/-545.101 $\chi^2$/NDF: 41.4/45

In: 1677.244+/-455.053 $\chi^2$/NDF:39.3/42

Out: 1334.168+/-437.843 $\chi^2$/NDF:50.4/50

All: 1499.096+/-315.510 $\chi^2$/NDF: 90.1/93

# reg_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2490.918+/-0.566 $\chi^2$/NDF: 247071.1/19

Left Out: 2381.235+/-0.383 $\chi^2$/NDF:57623.2/24

Right Out: 2541.884+/-0.527 $\chi^2$/NDF: 599452.9/25

Left In: 2369.384+/-0.391 $\chi^2$/NDF:7034.0/22

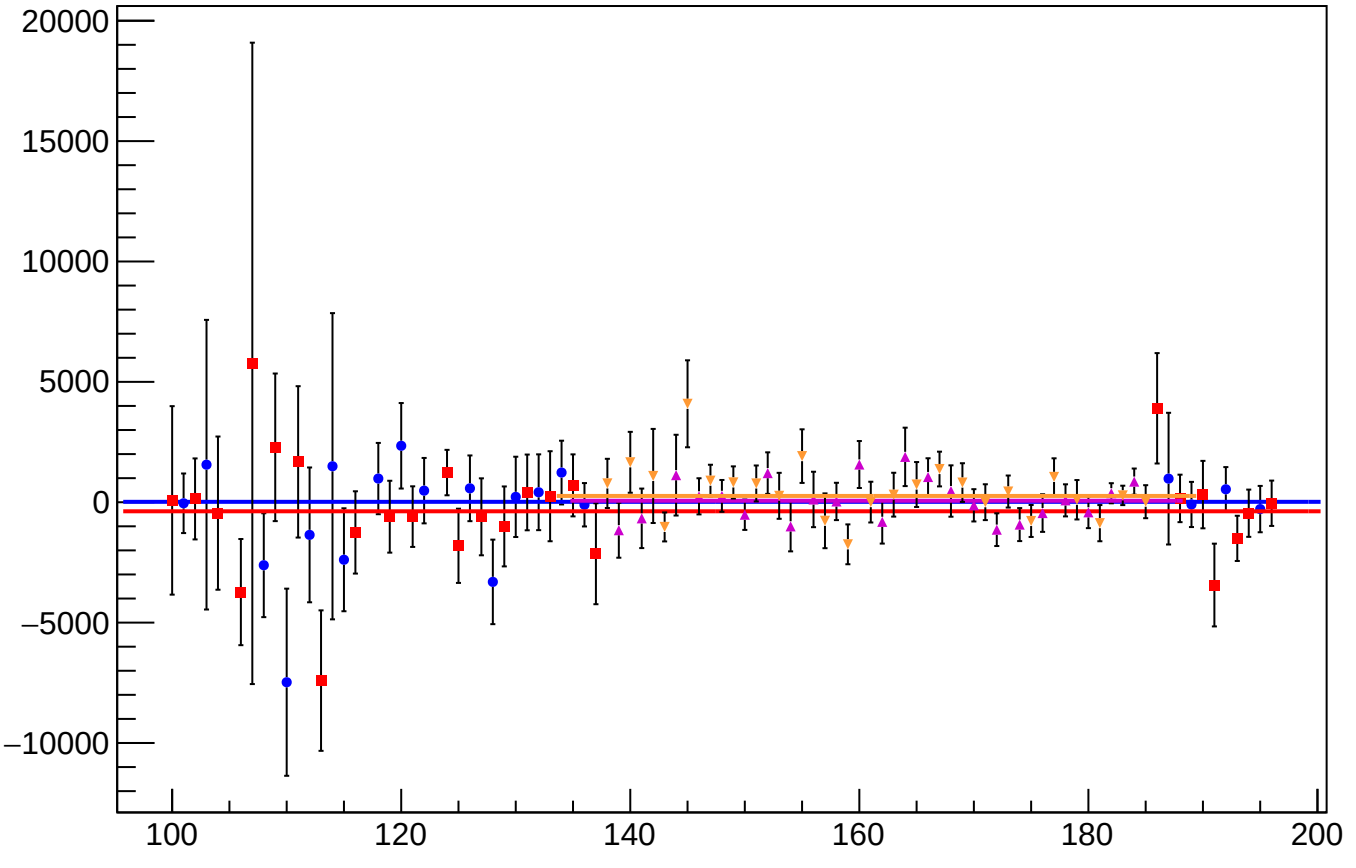
Left: 2375.439+/-0.274 $\chi^2$/NDF: 65126.0/47

Right: 2518.226+/-0.385 $\chi^2$/NDF: 850872.5/45

In: 2408.699+/-0.322 $\chi^2$/NDF:285325.3/42

Out: 2436.771+/-0.310 $\chi^2$/NDF:717976.6/50

All: 2423.276+/-0.223 $\chi^2$/NDF: 1007254.1/93




Right In: 17.112+/-322.712 $\chi^2$/NDF: 14.3/19

Left Out: 261.877+/-154.009 $\chi^2$/NDF:31.1/24

Right Out: -376.241+/-292.827 $\chi^2$/NDF: 24.4/25

Left In: 61.960+/-157.394 $\chi^2$/NDF:22.0/22

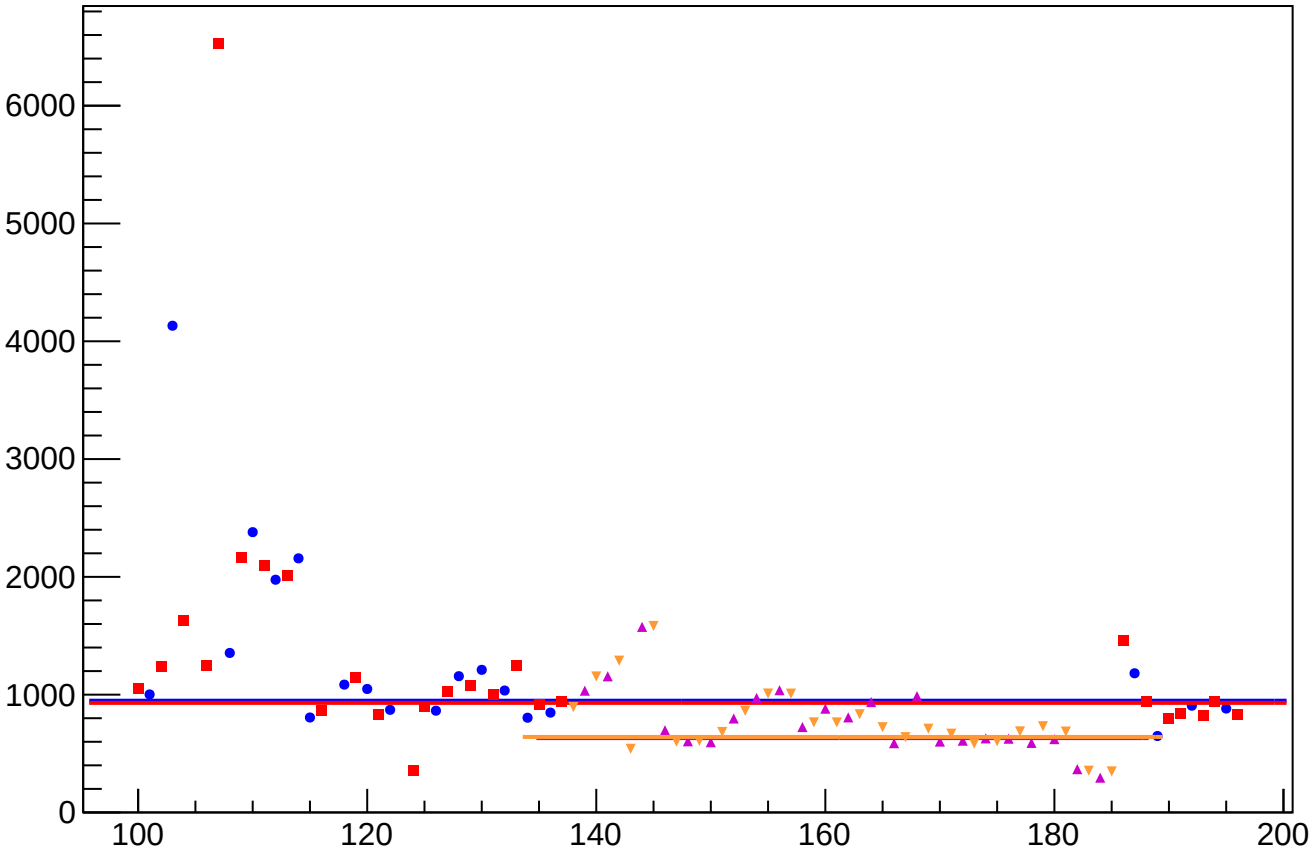
Left: 164.091+/-110.078 $\chi^2$/NDF: 53.9/47

Right: -198.617+/-216.857 $\chi^2$/NDF: 39.6/45

In: 53.342+/-141.465 $\chi^2$/NDF:36.4/42

Out: 123.611+/-136.307 $\chi^2$/NDF:59.2/50

All: 89.781+/-98.156 $\chi^2$/NDF: 95.7/93




Right In: 948.610+/-0.228 $\chi^2$/NDF: 1658117.7/19

Left Out: 641.156+/-0.109 $\chi^2$/NDF:3474860.7/24

Right Out: 930.233+/-0.207 $\chi^2$/NDF: 2504422.0/25

Left In: 631.199+/-0.111 $\chi^2$/NDF:3975438.6/22

Left: 636.286+/-0.078 $\chi^2$/NDF: 7454389.1/47

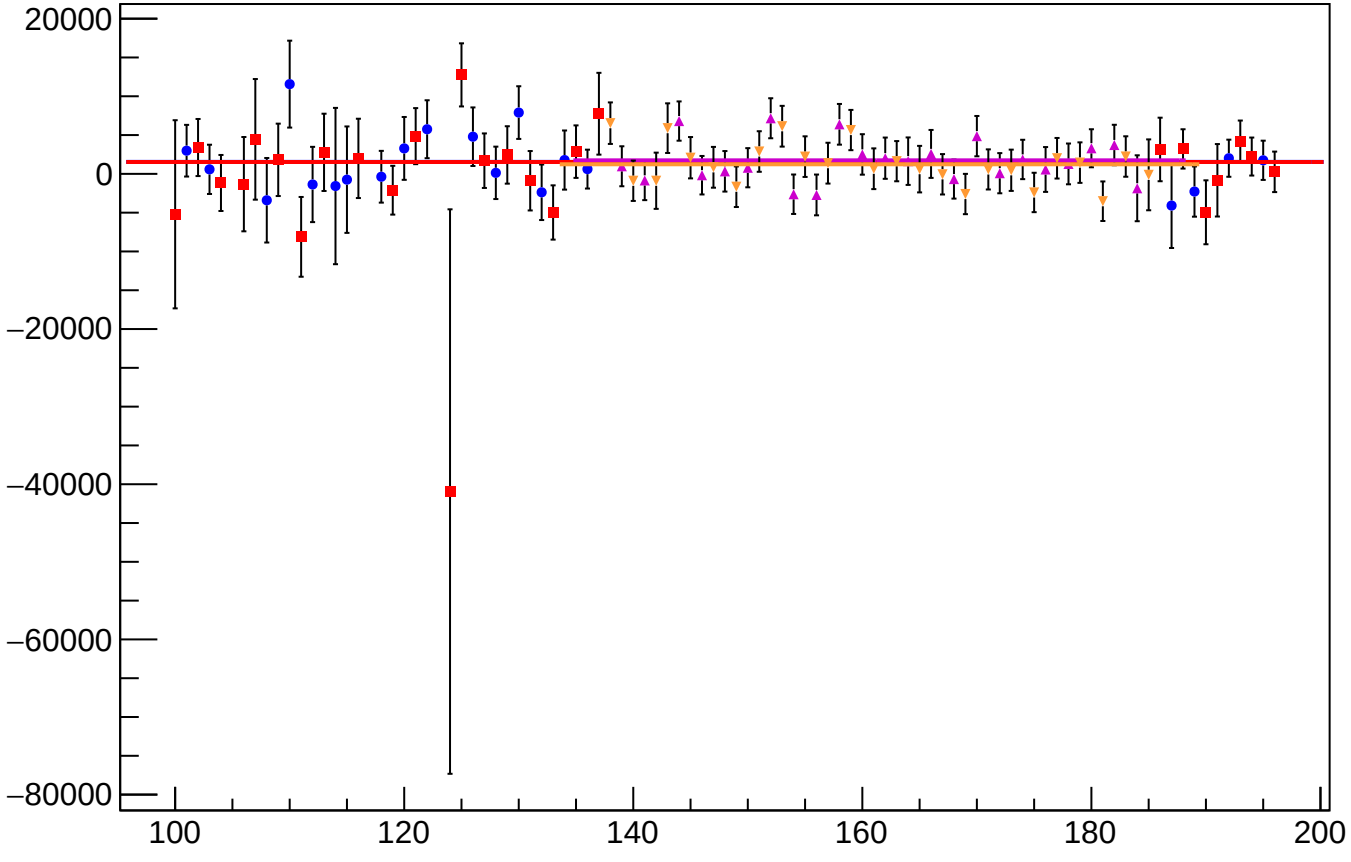
Right: 938.531+/-0.153 $\chi^2$/NDF: 4166096.2/45

In: 692.193+/-0.100 $\chi^2$/NDF:7196590.2/42

Out: 703.793+/-0.096 $\chi^2$/NDF:7506063.8/50

All: 698.208+/-0.069 $\chi^2$/NDF: 14709627.0/93

# cor_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1542.631+/-800.075 $\chi^2$/NDF: 14.9/19

Left Out: 1234.706+/-541.289 $\chi^2$/NDF:23.9/24

Right Out: 1527.937+/-744.810 $\chi^2$/NDF: 26.4/25

Left In: 1741.784+/-553.254 $\chi^2$/NDF:24.4/22

Left: 1482.702+/-386.910 $\chi^2$/NDF: 48.7/47

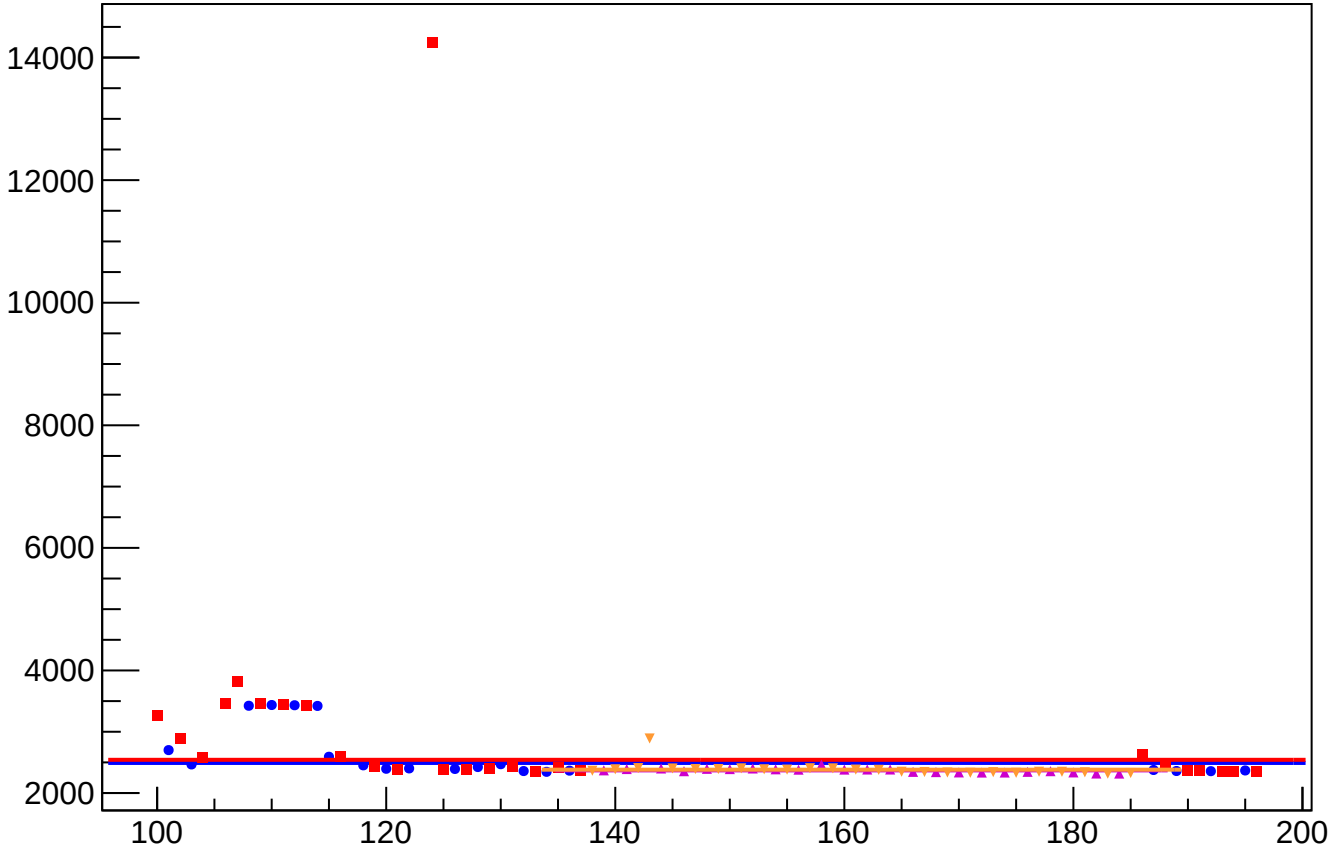
Right: 1534.759+/-545.152 $\chi^2$/NDF: 41.3/45

In: 1677.360+/-455.053 $\chi^2$/NDF:39.3/42

Out: 1336.052+/-437.869 $\chi^2$/NDF:50.3/50

All: 1500.140+/-315.520 $\chi^2$/NDF: 90.0/93

# cor_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2490.918+/-0.566 $\chi^2$/NDF: 247071.1/19

Left Out: 2381.235+/-0.383 $\chi^2$/NDF:57623.2/24

Right Out: 2542.165+/-0.527 $\chi^2$/NDF: 602259.1/25

Left In: 2369.384+/-0.391 $\chi^2$/NDF:7034.0/22

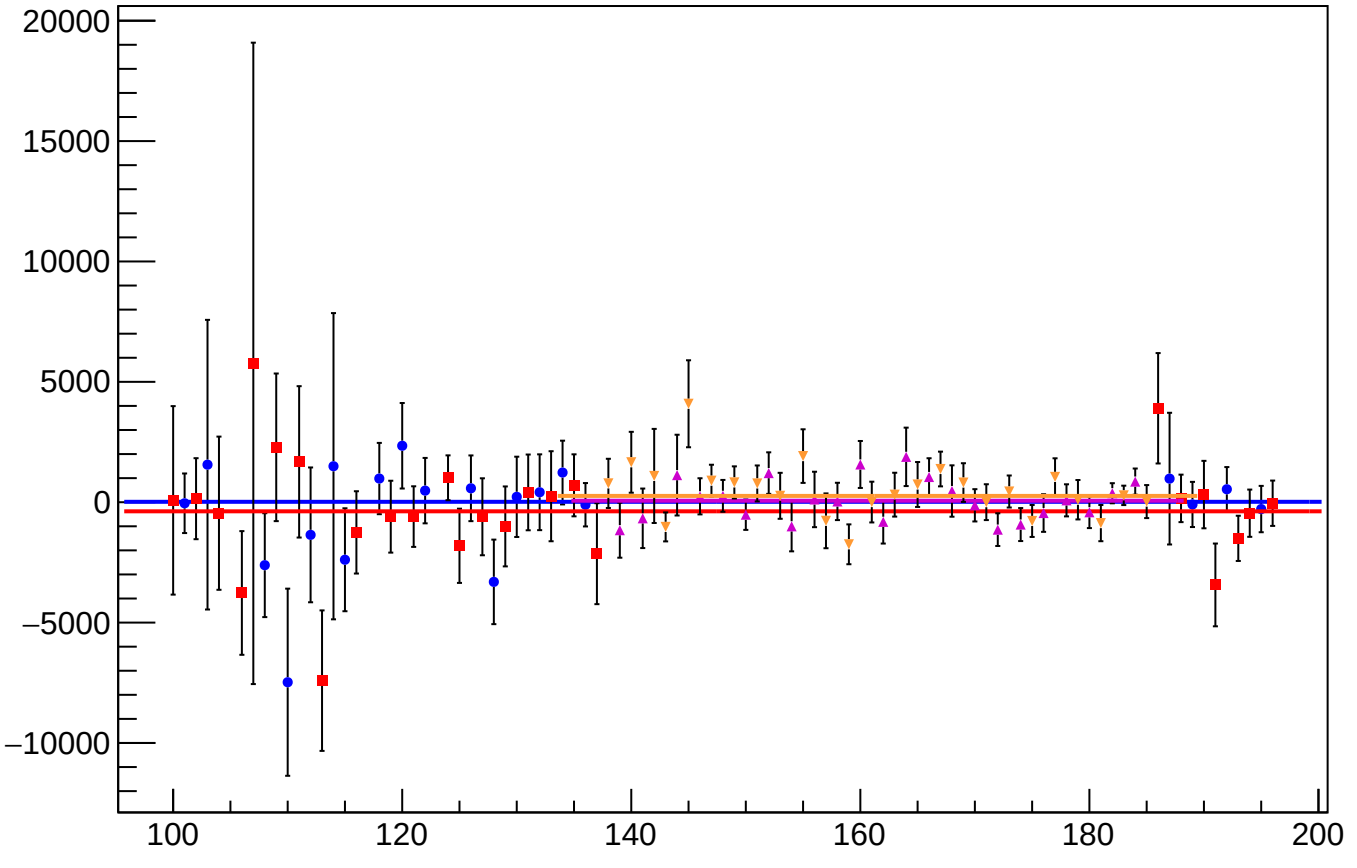
Left: 2375.439+/-0.274 $\chi^2$/NDF: 65126.0/47

Right: 2518.373+/-0.385 $\chi^2$/NDF: 853726.1/45

In: 2408.699+/-0.322 $\chi^2$/NDF:285325.4/42

Out: 2436.856+/-0.310 $\chi^2$/NDF:720982.4/50

All: 2423.319+/-0.223 $\chi^2$/NDF: 1010283.7/93




Right In: 17.072+/-322.711 $\chi^2$/NDF: 14.4/19

Left Out: 262.160+/-154.012 $\chi^2$/NDF:31.1/24

Right Out: -378.030+/-293.131 $\chi^2$/NDF: 23.2/25

Left In: 61.976+/-157.393 $\chi^2$/NDF:22.0/22

Left: 164.242+/-110.079 $\chi^2$/NDF: 53.9/47

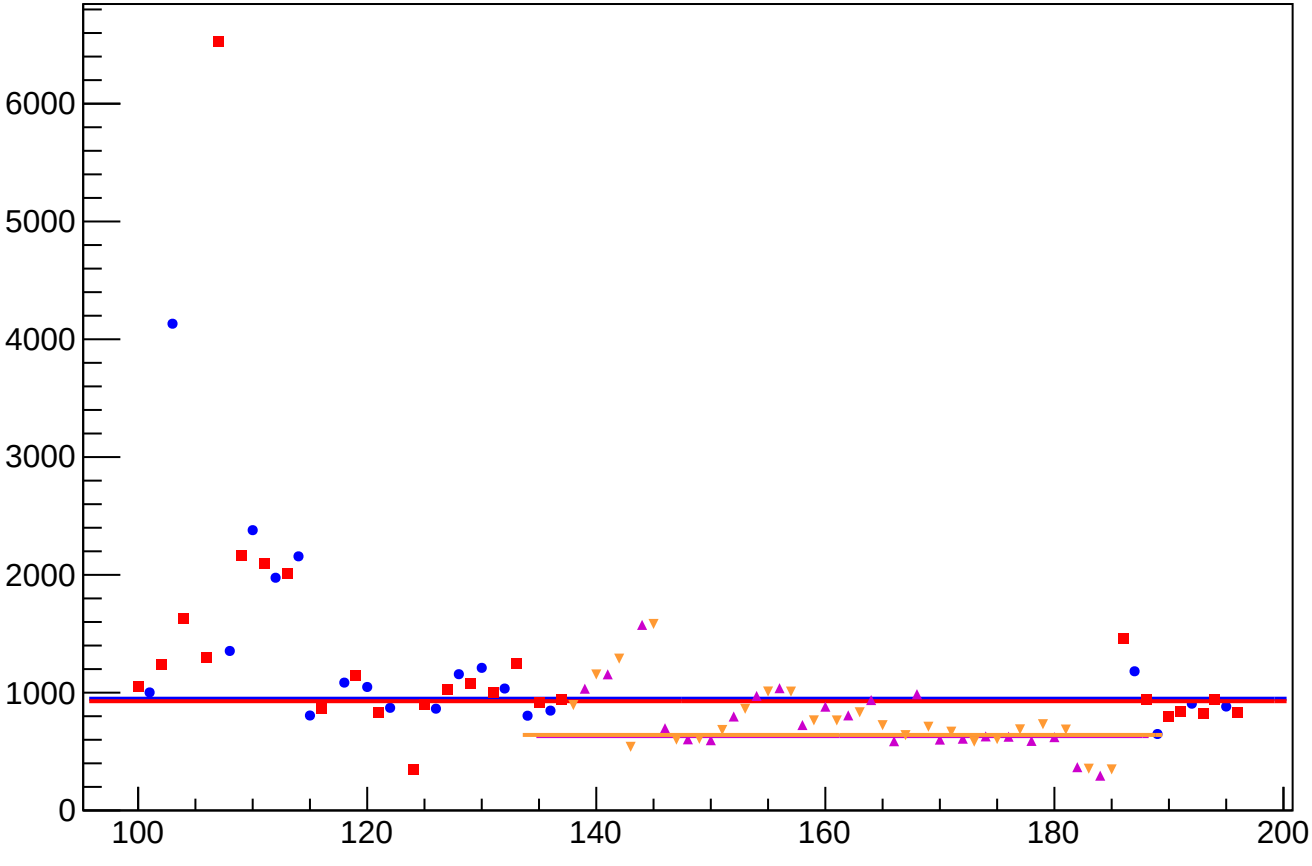
Right: -199.413+/-216.981 $\chi^2$/NDF: 38.3/45

In: 53.347+/-141.465 $\chi^2$/NDF:36.4/42

Out: 123.668+/-136.339 $\chi^2$/NDF:58.0/50

All: 89.805+/-98.168 $\chi^2$/NDF: 94.5/93

# asym_atl1_cor_correction_rms vs Slug, Sign Corrected




Right In: 948.610+/-0.228 $\chi^2$/NDF: 1658076.9/19

Left Out: 641.169+/-0.109 $\chi^2$/NDF:3474589.1/24

Right Out: 927.453+/-0.207 $\chi^2$/NDF: 2535247.3/25

Left In: 631.196+/-0.111 $\chi^2$/NDF:3975563.1/22

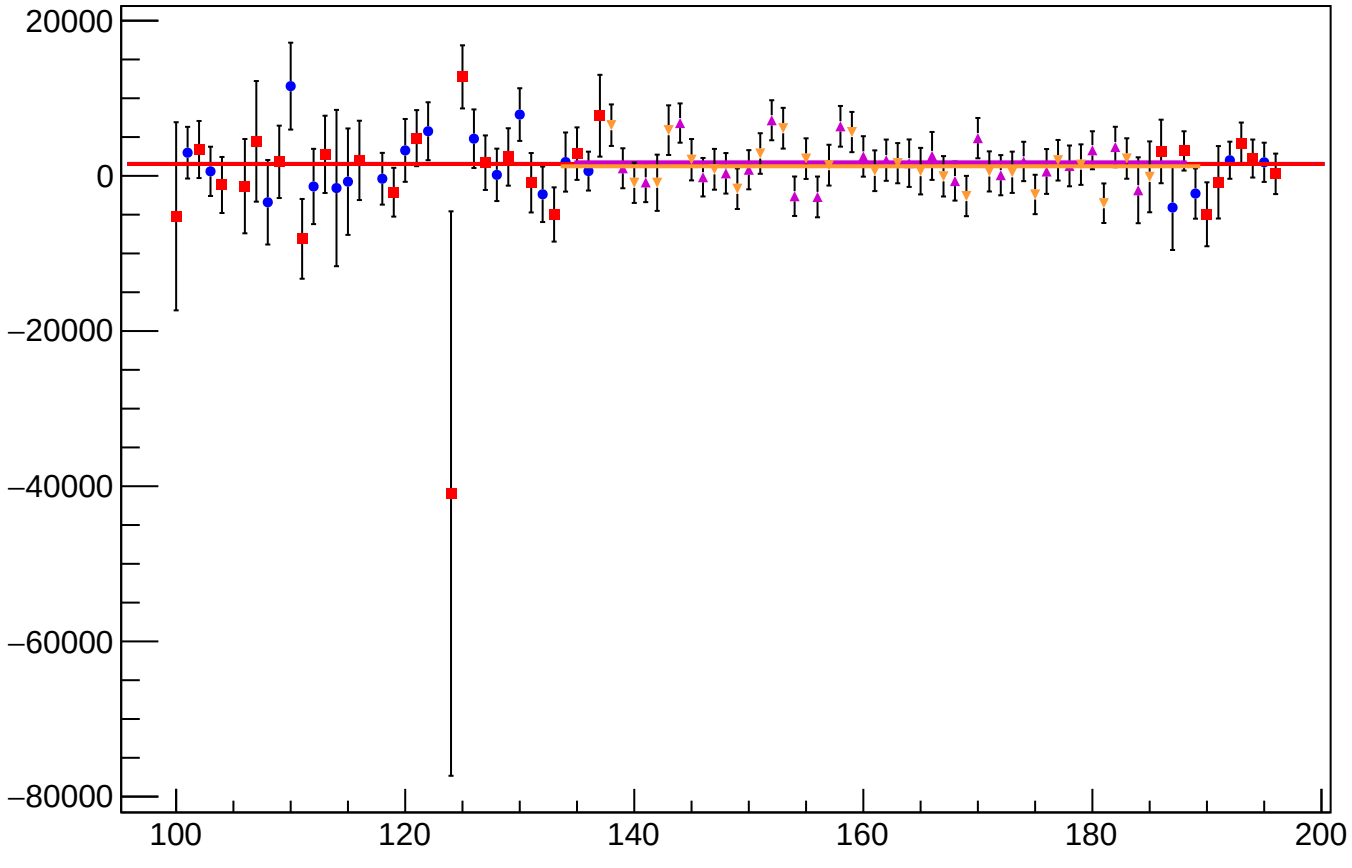
Left: 636.291+/-0.078 $\chi^2$/NDF: 7454254.5/47

Right: 937.017+/-0.153 $\chi^2$/NDF: 4198034.1/45

In: 692.191+/-0.100 $\chi^2$/NDF:7196705.2/42

Out: 703.101+/-0.096 $\chi^2$/NDF:7504804.1/50

All: 697.847+/-0.069 $\chi^2$/NDF: 14707676.3/93




Right In: 1542.631+/-800.075 $\chi^2$/NDF: 14.9/19

Left Out: 1234.706+/-541.289 $\chi^2$/NDF:23.9/24

Right Out: 1527.937+/-744.810 $\chi^2$/NDF: 26.4/25

Left In: 1741.784+/-553.254 $\chi^2$/NDF:24.4/22

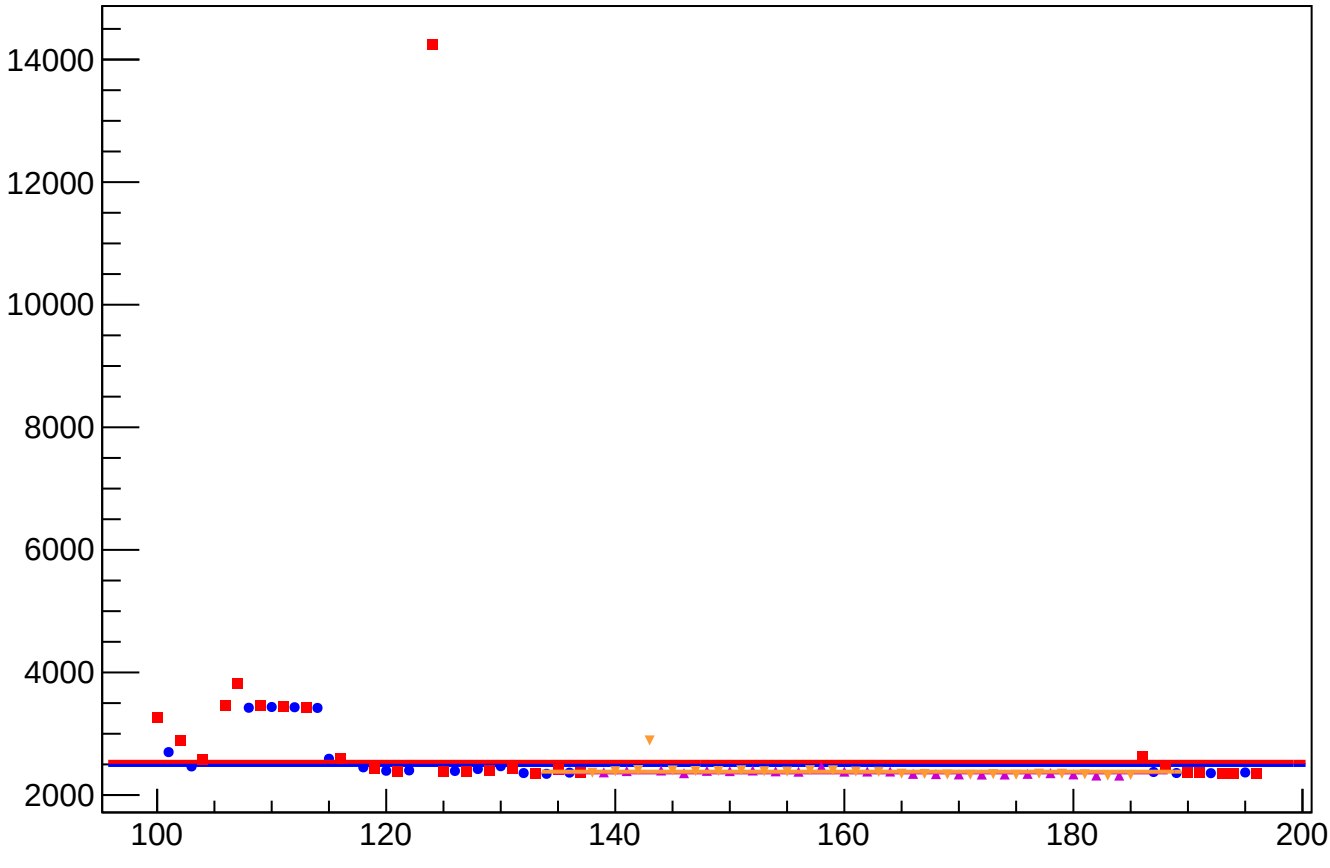
Left: 1482.702+/-386.910 $\chi^2$/NDF: 48.7/47

Right: 1534.759+/-545.152 $\chi^2$/NDF: 41.3/45

In: 1677.360+/-455.053 $\chi^2$/NDF:39.3/42

Out: 1336.052+/-437.869 $\chi^2$/NDF:50.3/50

All: 1500.140+/-315.520 $\chi^2$/NDF: 90.0/93




Right In: 2490.918+/-0.566 $\chi^2$/NDF: 247071.1/19

Left Out: 2381.235+/-0.383 $\chi^2$/NDF:57623.2/24

Right Out: 2542.165+/-0.527 $\chi^2$/NDF: 602259.1/25

Left In: 2369.384+/-0.391 $\chi^2$/NDF:7034.0/22

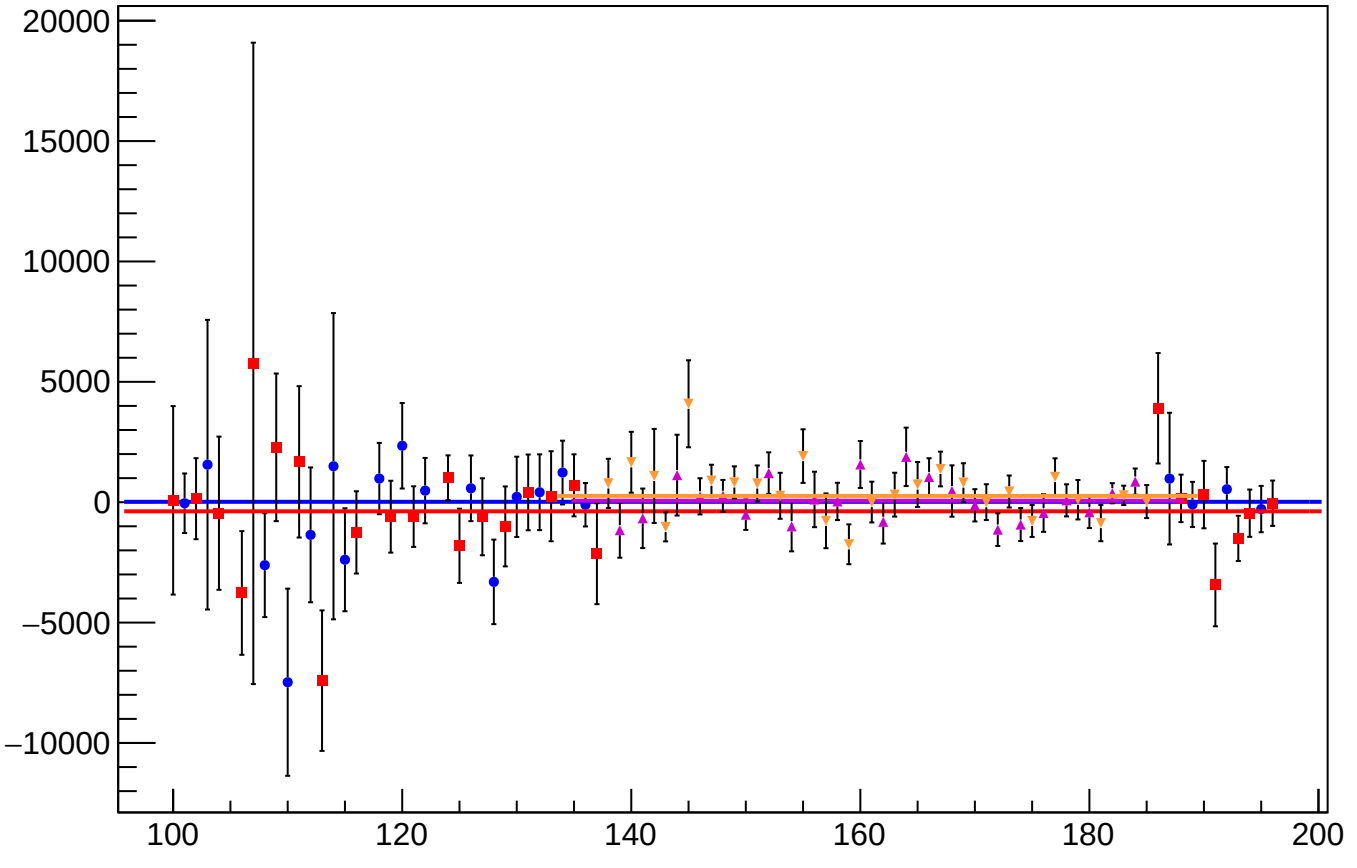
Left: 2375.439+/-0.274 $\chi^2$/NDF: 65126.0/47

Right: 2518.373+/-0.385 $\chi^2$/NDF: 853726.1/45

In: 2408.699+/-0.322 $\chi^2$/NDF:285325.4/42

Out: 2436.856+/-0.310 $\chi^2$/NDF:720982.4/50

All: 2423.319+/-0.223 $\chi^2$/NDF: 1010283.7/93




Right In: 17.072+/-322.711 $\chi^2$/NDF: 14.4/19

Left Out: 262.160+/-154.012 $\chi^2$/NDF:31.1/24

Right Out: -378.030+/-293.131 $\chi^2$/NDF: 23.2/25

Left In: 61.976+/-157.393 $\chi^2$/NDF:22.0/22

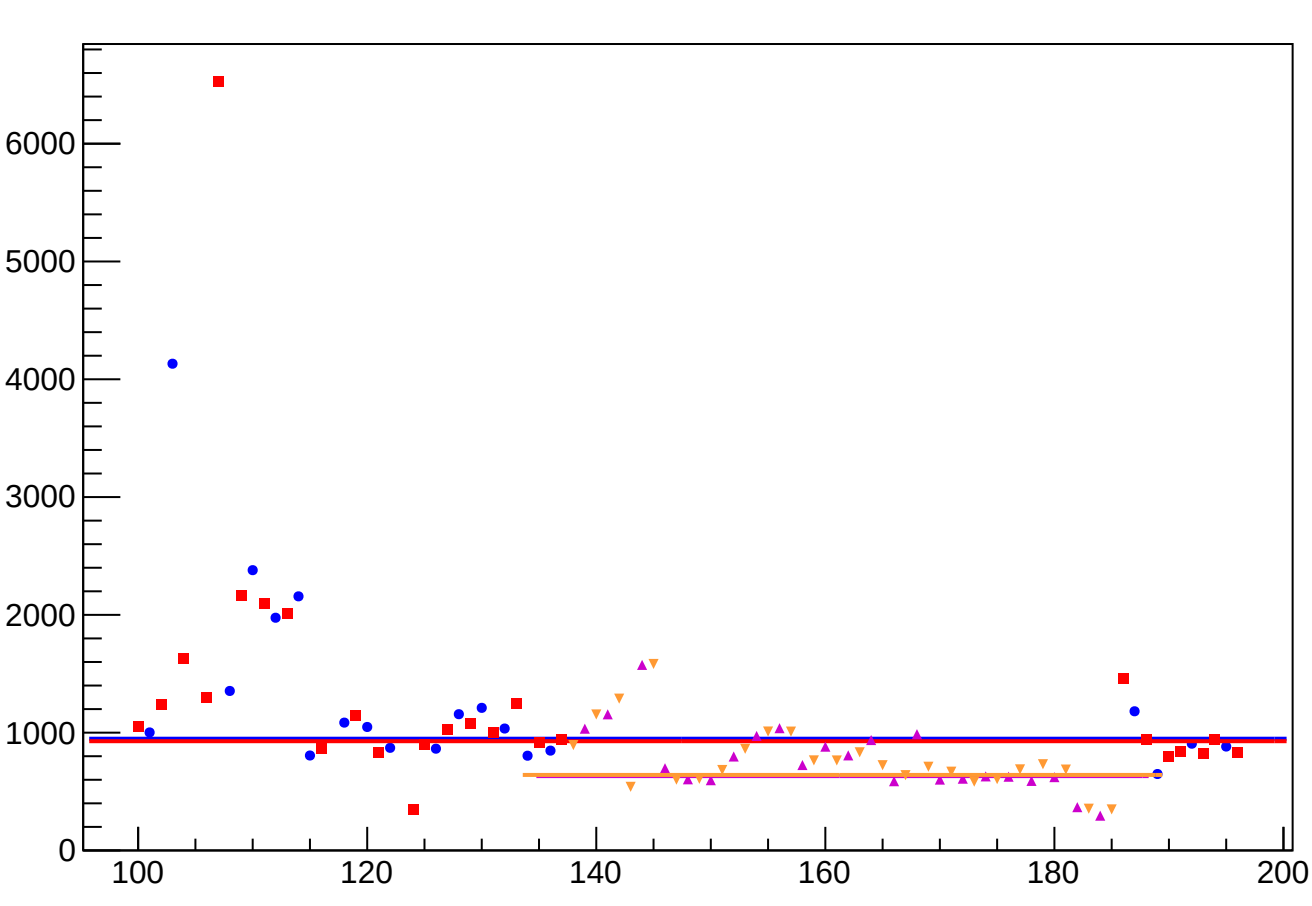
Left: 164.242+/-110.079 $\chi^2$/NDF: 53.9/47

Right: -199.413+/-216.981 $\chi^2$/NDF: 38.3/45

In: 53.347+/-141.465 $\chi^2$/NDF:36.4/42

Out: 123.668+/-136.339 $\chi^2$/NDF:58.0/50

All: 89.805+/-98.168 $\chi^2$/NDF: 94.5/93




Right In: 948.610+/-0.228 $\chi^2$/NDF: 1658076.9/19

Left Out: 641.169+/-0.109 $\chi^2$/NDF:3474589.1/24

Right Out: 927.453+/-0.207 $\chi^2$/NDF: 2535247.3/25

Left In: 631.196+/-0.111 $\chi^2$/NDF:3975563.1/22

Left: 636.291+/-0.078 $\chi^2$/NDF: 7454254.5/47

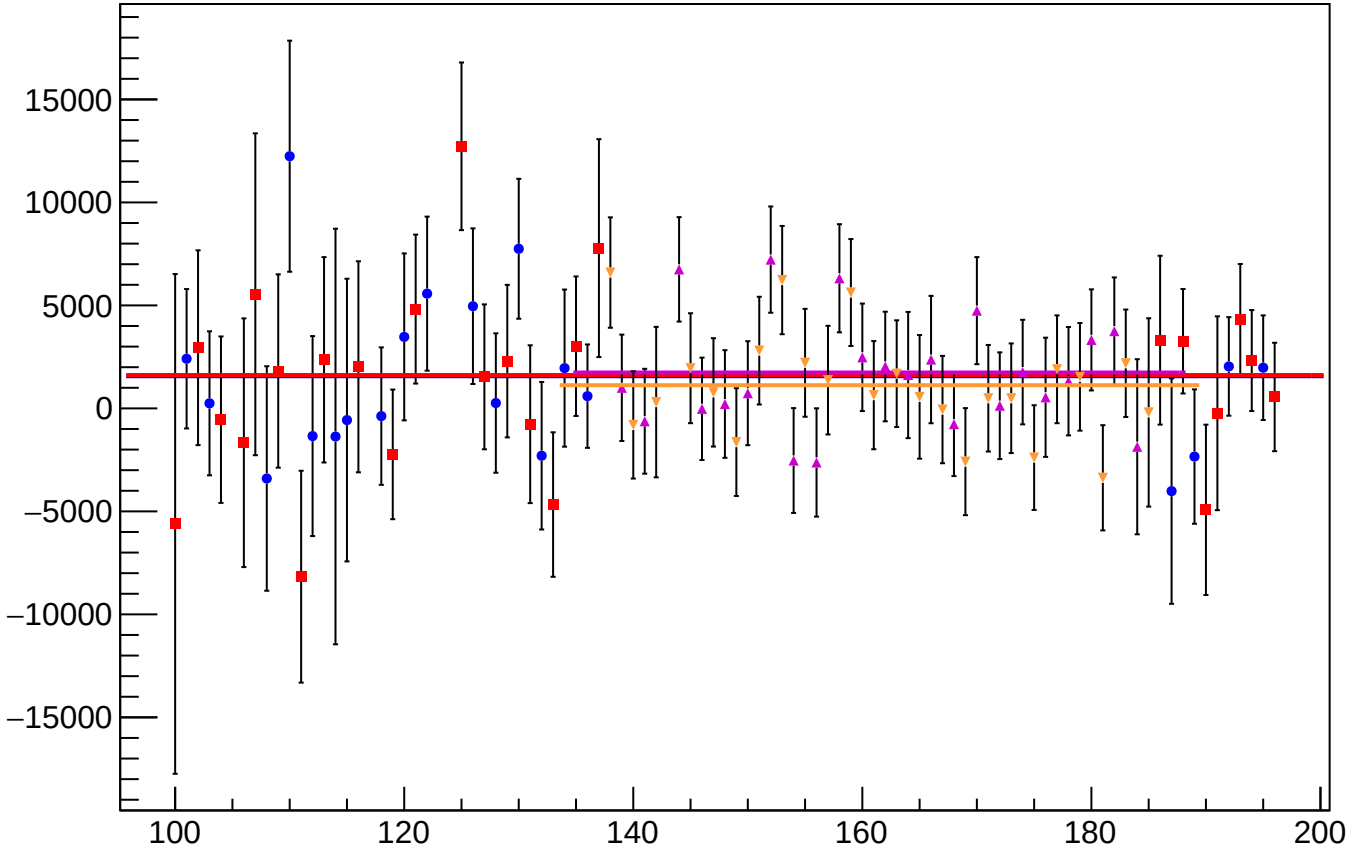
Right: 937.017+/-0.153 $\chi^2$/NDF: 4198034.1/45

In: 692.191+/-0.100 $\chi^2$/NDF:7196705.2/42

Out: 703.101+/-0.096 $\chi^2$/NDF:7504804.1/50

All: 697.847+/-0.069 $\chi^2$/NDF: 14707676.3/93

# dit_asym_atl1_mean vs Slug, Sign Corrected




Right In: 1560.837+/-806.612 $\chi^2$/NDF: 15.0/19

Left Out: 1125.562+/-549.834 $\chi^2$/NDF:21.2/23

Right Out: 1619.591+/-755.880 $\chi^2$/NDF: 24.3/24

Left In: 1742.304+/-553.755 $\chi^2$/NDF:23.8/22

Left: 1431.742+/-390.170 $\chi^2$/NDF: 45.6/46

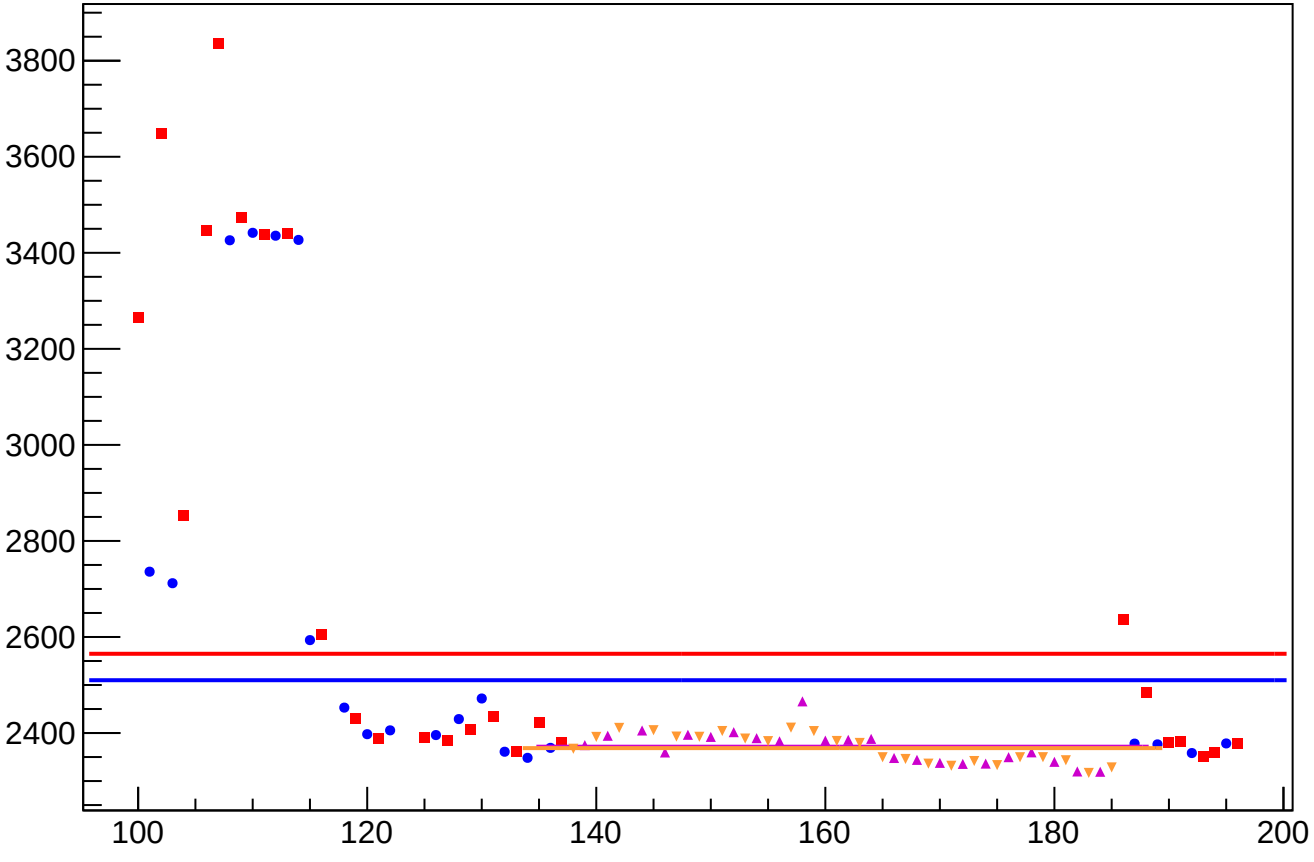
Right: 1592.120+/-551.551 $\chi^2$/NDF: 39.4/44

In: 1684.174+/-456.526 $\chi^2$/NDF:38.8/42

Out: 1296.511+/-444.642 $\chi^2$/NDF:45.8/48

All: 1485.231+/-318.528 $\chi^2$/NDF: 85.0/91

# dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2509.976+/-0.570 $\chi^2$/NDF: 254976.8/19

Left Out: 2368.569+/-0.389 $\chi^2$/NDF:5571.3/23

Right Out: 2565.021+/-0.534 $\chi^2$/NDF: 494537.0/24

Left In: 2371.518+/-0.392 $\chi^2$/NDF:7053.5/22

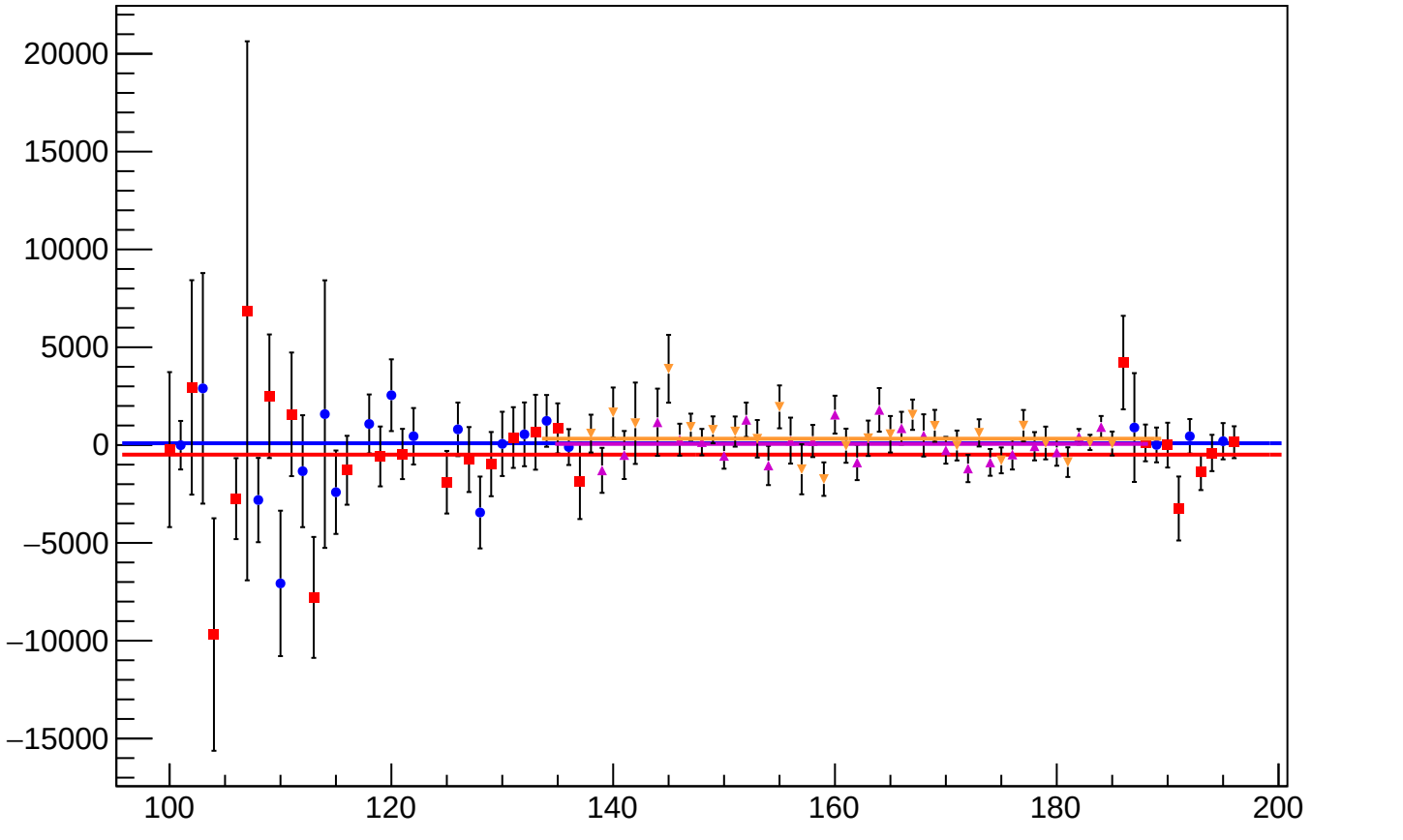
Left: 2370.033+/-0.276 $\chi^2$/NDF: 12653.4/46

Right: 2539.284+/-0.390 $\chi^2$/NDF: 754473.1/44

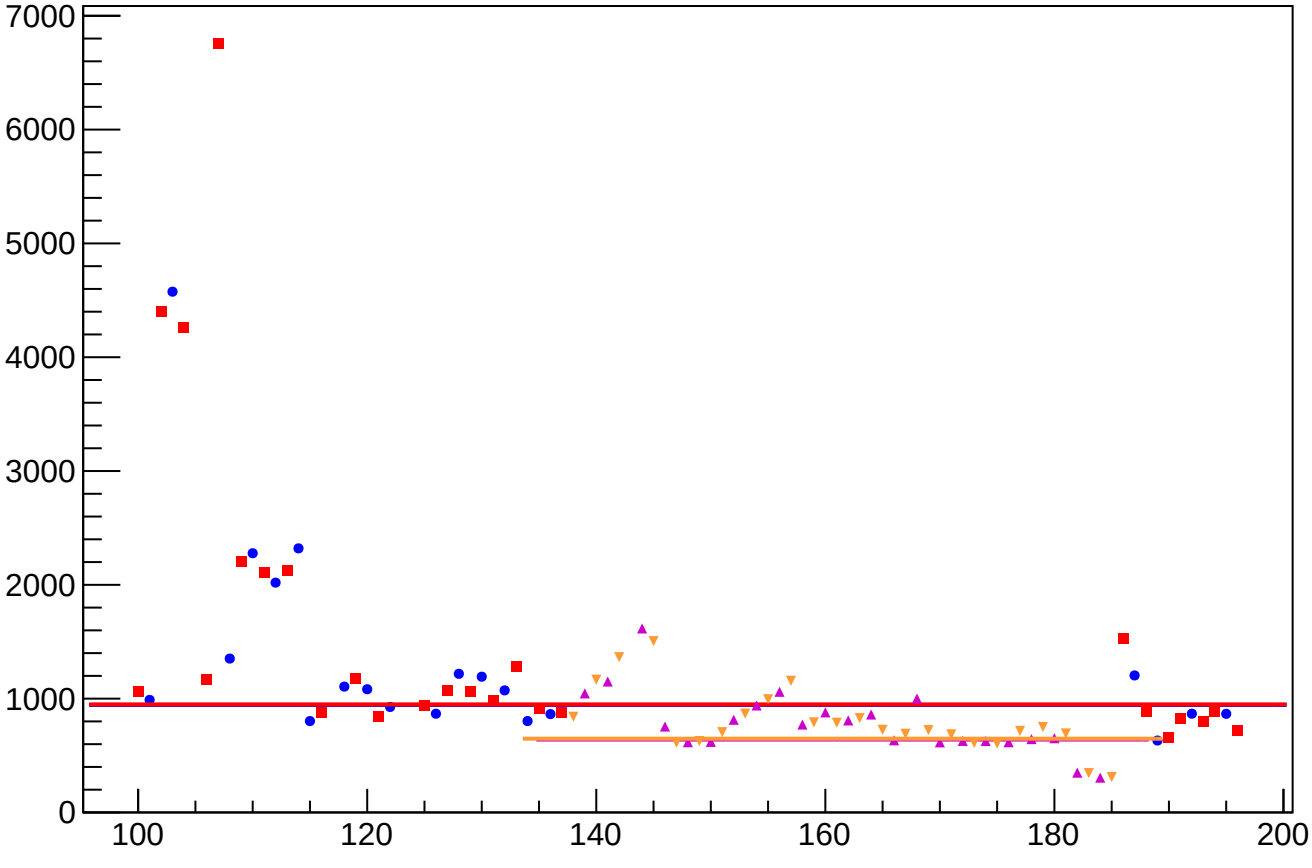
In: 2415.871+/-0.323 $\chi^2$/NDF:302082.9/42

Out: 2436.548+/-0.314 $\chi^2$/NDF:588456.3/48

All: 2426.482+/-0.225 $\chi^2$/NDF: 892644.7/91


asym_atl1_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: 92.432+/-320.661 χ²/NDF: 14.8/19
Left Out: 325.955+/-160.041 χ²/NDF:26.8/23
Right Out: -489.271+/-301.305 χ²/NDF: 23.4/24
Left In: 59.619+/-159.669 χ²/NDF:22.7/22
Left: 192.477+/-113.035 χ²/NDF: 50.9/46
Right: -216.505+/-219.579 χ²/NDF: 40.0/44
In: 66.138+/-142.930 χ²/NDF:37.5/42
Out: 146.565+/-141.340 χ²/NDF:55.9/48
All: 106.801+/-100.500 χ²/NDF: 93.6/91

# asym_atl1_dit_correction_rms vs Slug, Sign Corrected




Right In: 944.964+/-0.227 $\chi^2$/NDF: 1937643.0/19

Left Out: 648.100+/-0.113 $\chi^2$/NDF:3886991.8/23

Right Out: 949.076+/-0.213 $\chi^2$/NDF: 3300573.7/24

Left In: 640.422+/-0.113 $\chi^2$/NDF:4128760.4/22

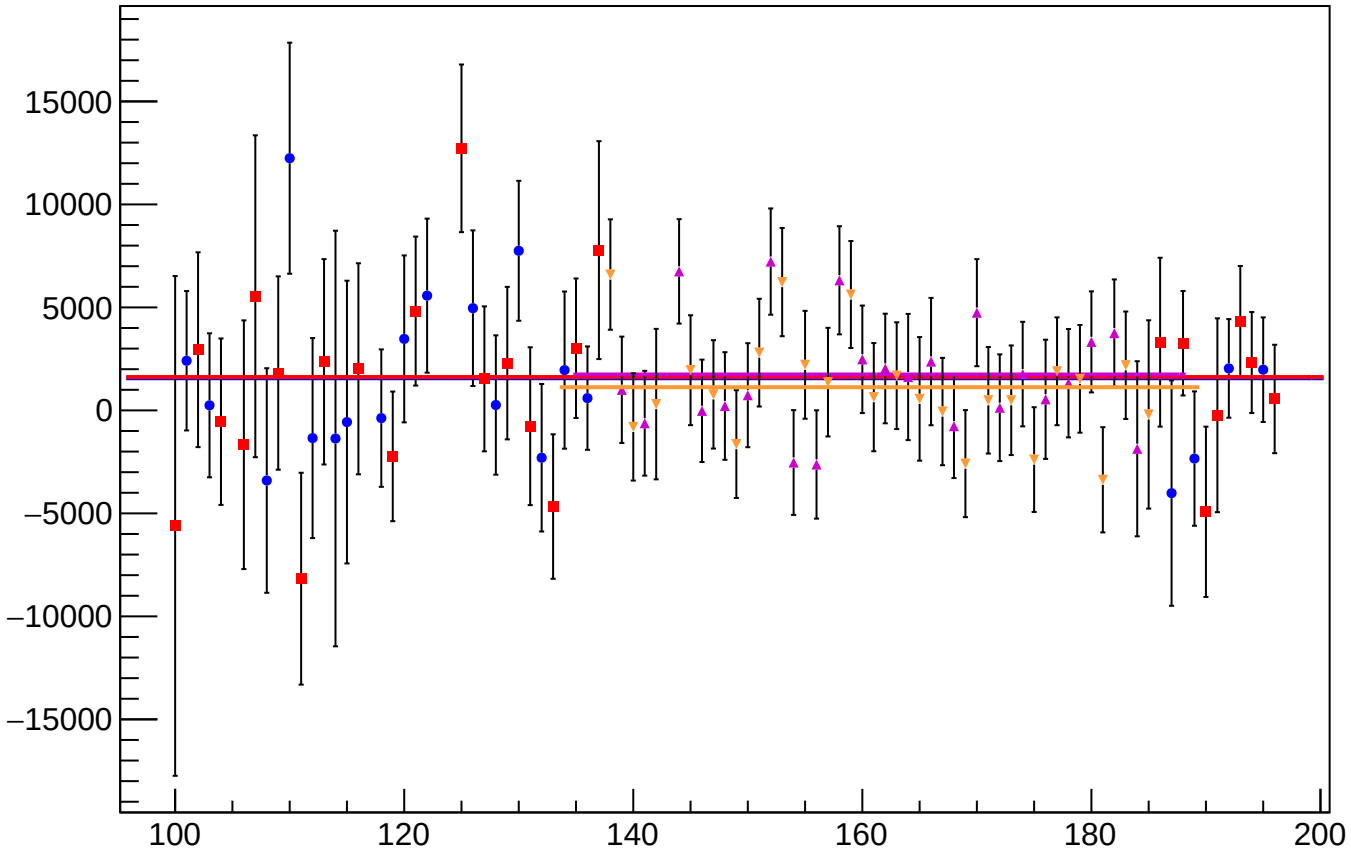
Left: 644.252+/-0.080 $\chi^2$/NDF: 8018059.4/46

Right: 947.148+/-0.155 $\chi^2$/NDF: 5238391.3/44

In: 700.929+/-0.101 $\chi^2$/NDF:7511974.1/42

Out: 714.330+/-0.100 $\chi^2$/NDF:8744056.0/48

All: 707.704+/-0.071 $\chi^2$/NDF: 16264919.0/91




Right In: 1560.834+/-806.612 $\chi^2$/NDF: 15.0/19

Left Out: 1125.562+/-549.834 $\chi^2$/NDF:21.2/23

Right Out: 1619.589+/-755.880 $\chi^2$/NDF: 24.3/24

Left In: 1742.305+/-553.755 $\chi^2$/NDF:23.8/22

Left: 1431.742+/-390.170 $\chi^2$/NDF: 45.6/46

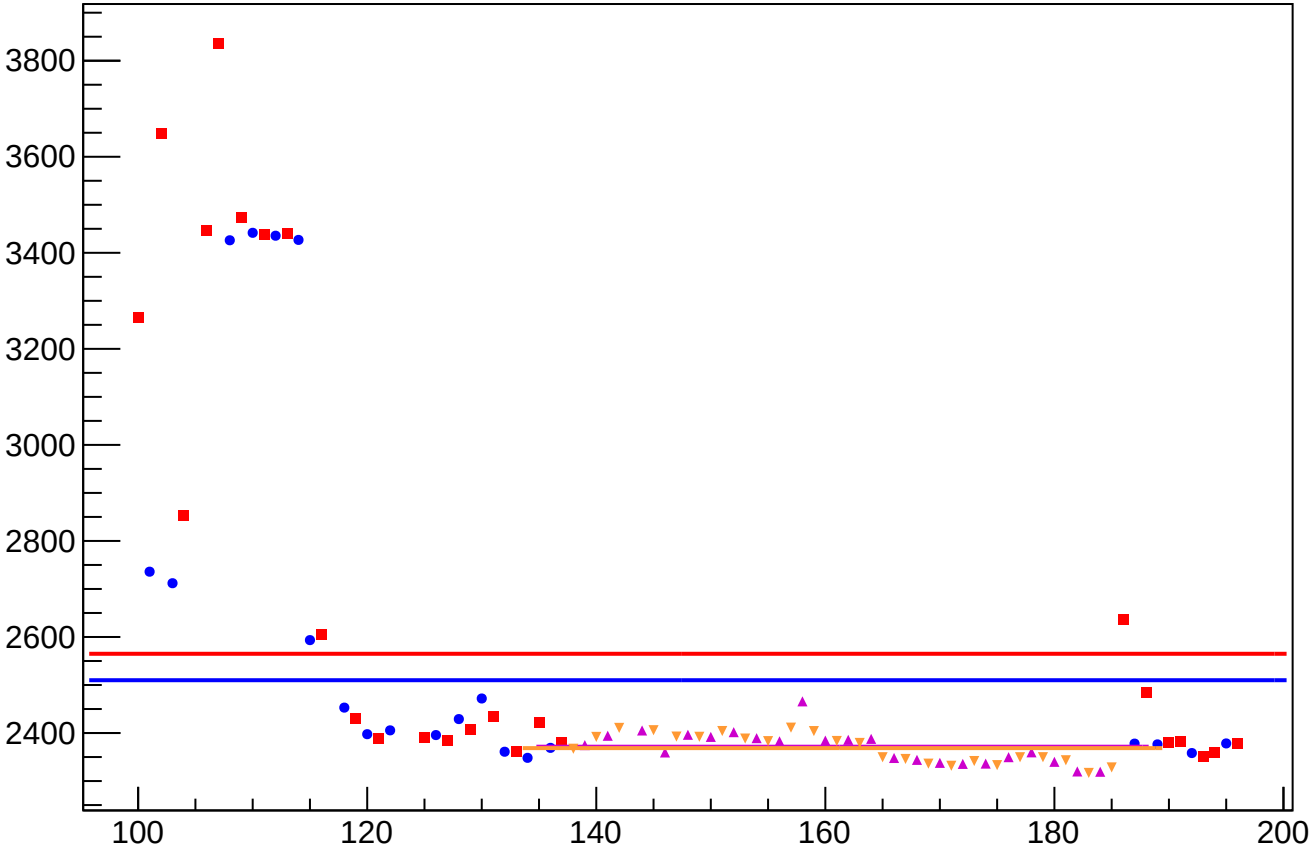
Right: 1592.117+/-551.551 $\chi^2$/NDF: 39.4/44

In: 1684.174+/-456.526 $\chi^2$/NDF:38.8/42

Out: 1296.511+/-444.642 $\chi^2$/NDF:45.8/48

All: 1485.231+/-318.528 $\chi^2$/NDF: 85.0/91

# eigen_dit_asym_atl1_rms vs Slug, Sign Corrected




Right In: 2509.975+/-0.570 $\chi^2$/NDF: 254976.4/19

Left Out: 2368.569+/-0.389 $\chi^2$/NDF:5571.3/23

Right Out: 2565.021+/-0.534 $\chi^2$/NDF: 494536.3/24

Left In: 2371.518+/-0.392 $\chi^2$/NDF:7053.5/22

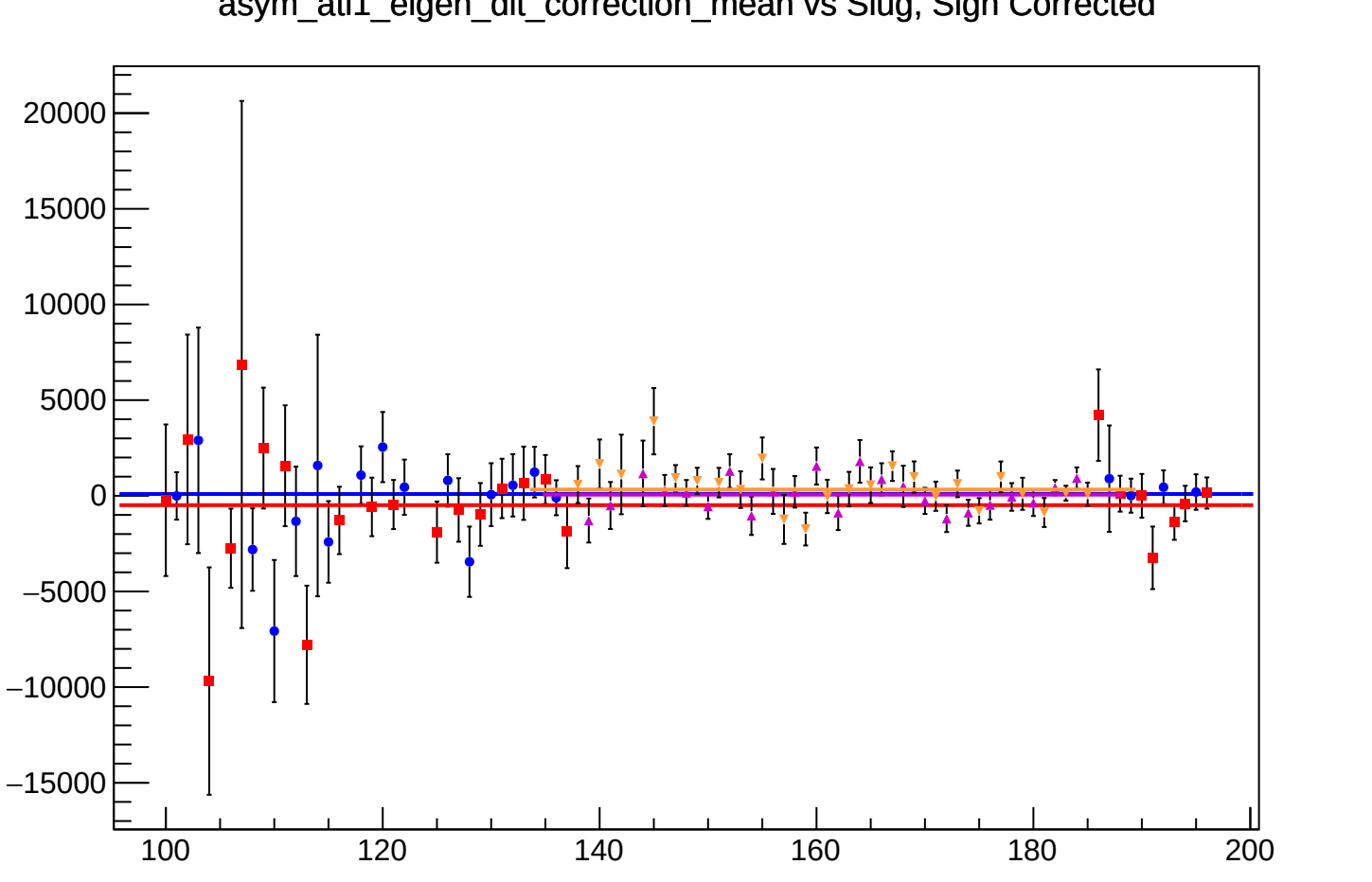
Left: 2370.033+/-0.276 $\chi^2$/NDF: 12653.4/46

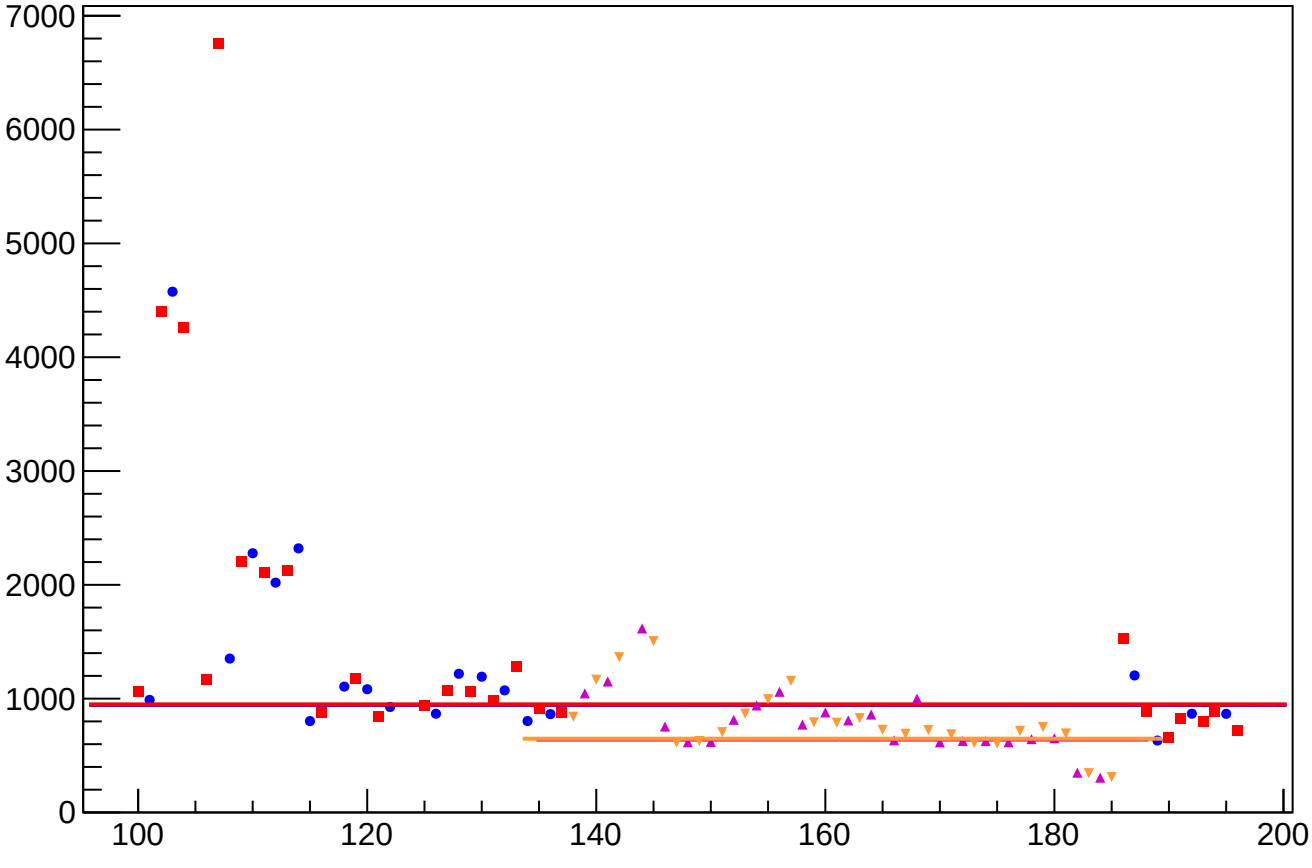
Right: 2539.284+/-0.390 $\chi^2$/NDF: 754471.9/44

In: 2415.871+/-0.323 $\chi^2$/NDF:302082.4/42

Out: 2436.548+/-0.314 $\chi^2$/NDF:588455.4/48

All: 2426.482+/-0.225 $\chi^2$/NDF: 892643.2/91


asym_atl1_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: 92.430+/-320.660 χ²/NDF: 14.8/19
Left Out: 325.955+/-160.042 χ²/NDF:26.8/23
Right Out: -489.271+/-301.305 χ²/NDF: 23.4/24
Left In: 59.619+/-159.670 χ²/NDF:22.7/22
Left: 192.477+/-113.035 χ²/NDF: 50.9/46
Right: -216.506+/-219.579 χ²/NDF: 40.0/44
In: 66.138+/-142.930 χ²/NDF:37.5/42
Out: 146.565+/-141.340 χ²/NDF:55.9/48
All: 106.801+/-100.500 χ²/NDF: 93.6/91




Right In: 944.964+/-0.227 $\chi^2$/NDF: 1937641.2/19

Left Out: 648.101+/-0.113 $\chi^2$/NDF:3887001.9/23

Right Out: 949.075+/-0.213 $\chi^2$/NDF: 3300572.1/24

Left In: 640.423+/-0.113 $\chi^2$/NDF:4128774.2/22

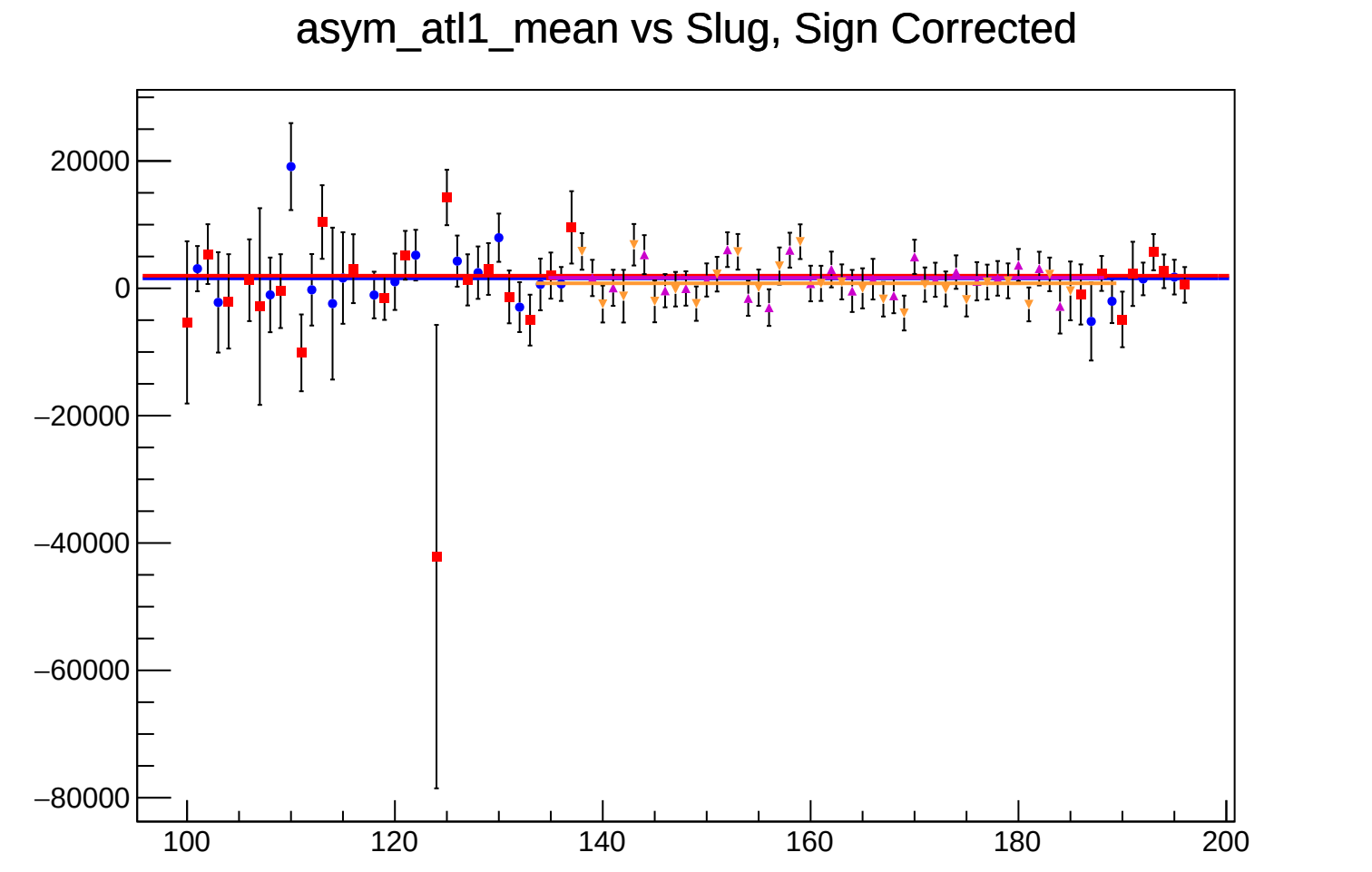
Left: 644.253+/-0.080 $\chi^2$/NDF: 8018083.4/46

Right: 947.147+/-0.155 $\chi^2$/NDF: 5238388.0/44

In: 700.930+/-0.101 $\chi^2$/NDF:7511976.1/42

Out: 714.331+/-0.100 $\chi^2$/NDF:8744053.1/48

All: 707.705+/-0.071 $\chi^2$/NDF: 16264918.2/91




Right In: 1565.471+/-895.145 $\chi^2$/NDF: 15.9/19

Left Out: 791.438+/-573.266 $\chi^2$/NDF:27.1/24

Right Out: 1981.794+/-834.150 $\chi^2$/NDF: 29.2/25

Left In: 1654.626+/-586.767 $\chi^2$/NDF:17.3/22

Left: 1212.987+/-410.050 $\chi^2$/NDF: 45.6/47

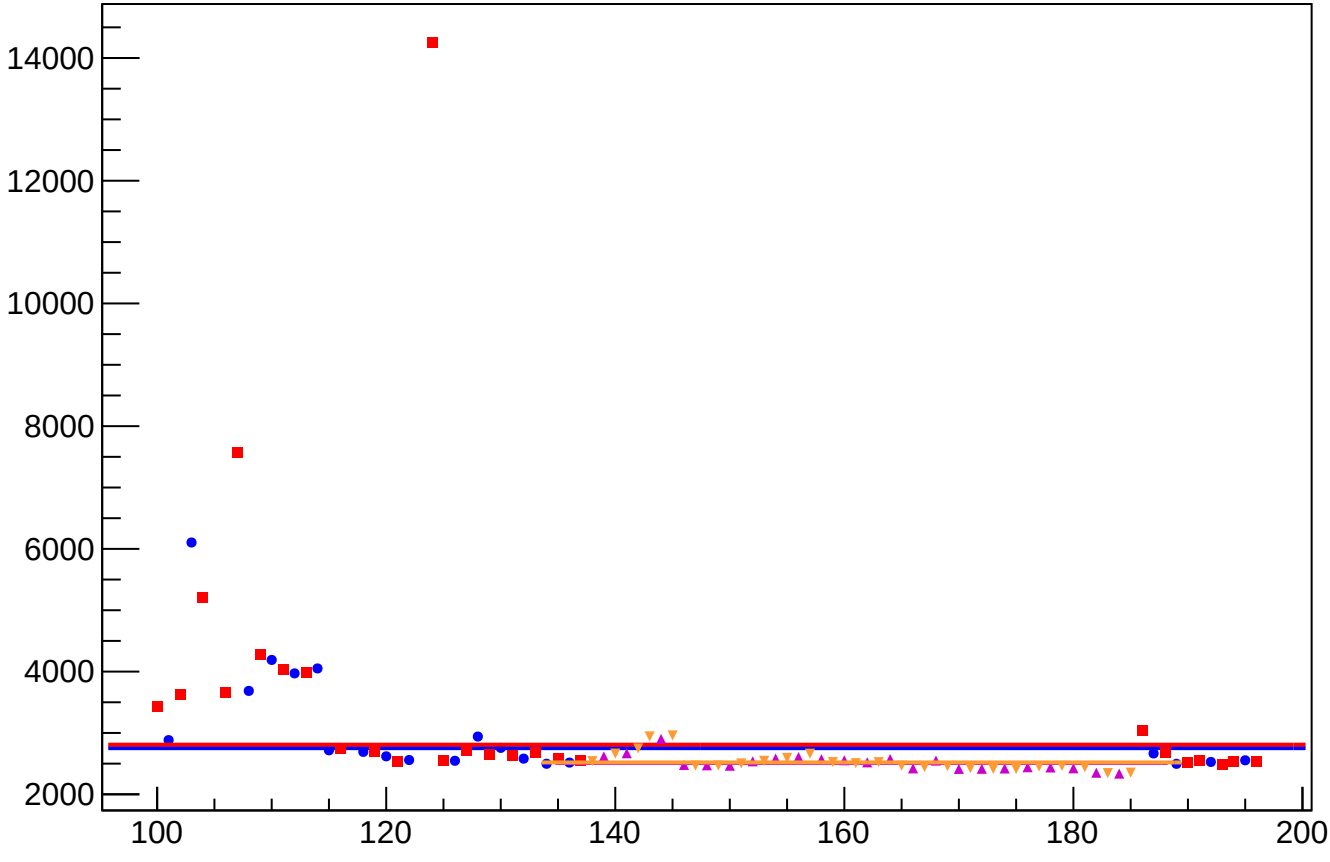
Right: 1788.299+/-610.258 $\chi^2$/NDF: 45.3/45

In: 1627.831+/-490.734 $\chi^2$/NDF:33.3/42

Out: 1173.297+/-472.451 $\chi^2$/NDF:57.7/50

All: 1391.939+/-340.354 $\chi^2$/NDF: 91.5/93

# asym_atl1_rms vs Slug, Sign Corrected




Right In: 2752.372+/-0.633 $\chi^2$/NDF: 703097.4/19

Left Out: 2519.516+/-0.405 $\chi^2$/NDF:115204.3/24

Right Out: 2808.754+/-0.590 $\chi^2$/NDF: 1121365.7/25

Left In: 2510.156+/-0.415 $\chi^2$/NDF:73771.4/22

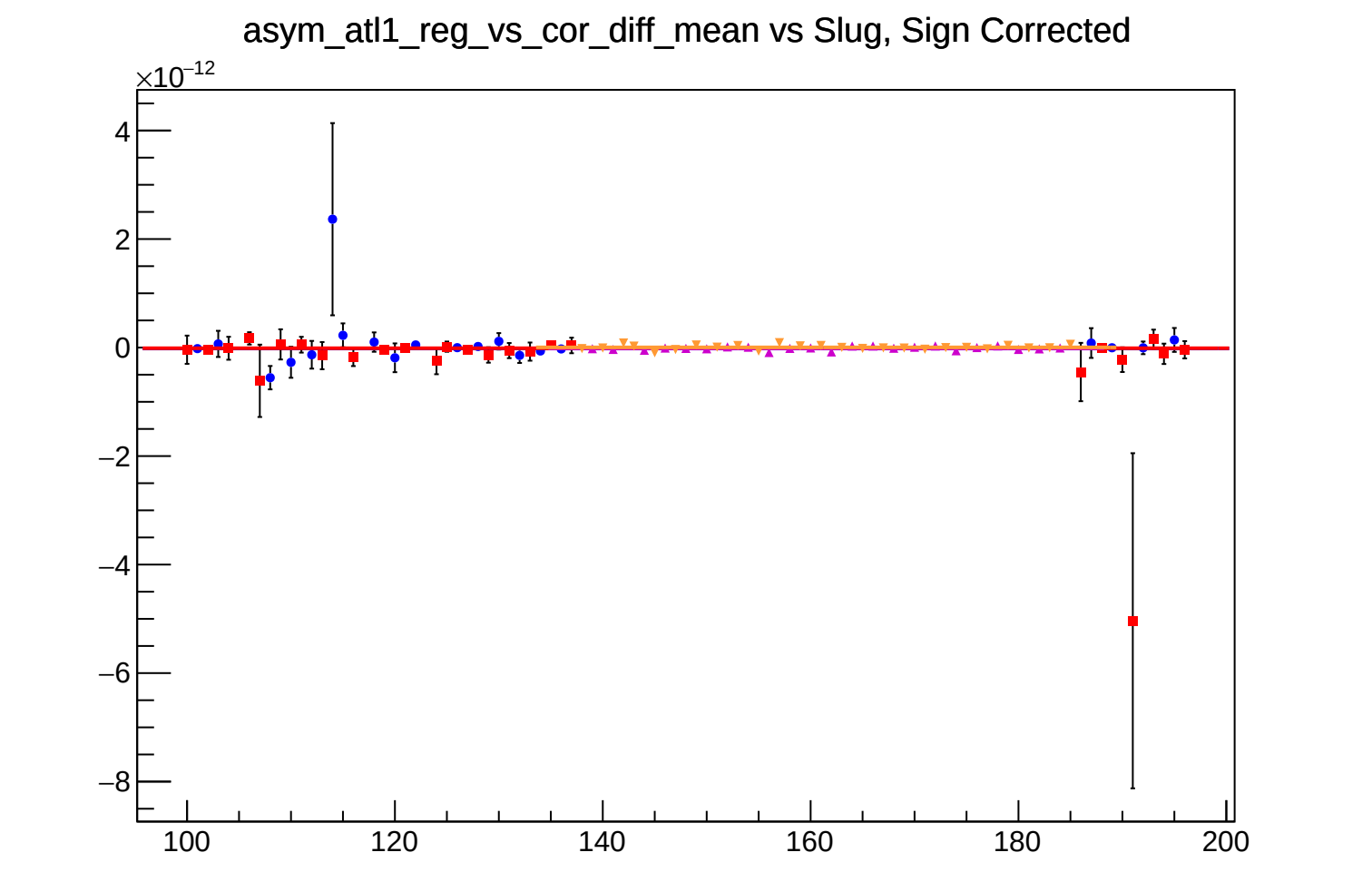
Left: 2514.945+/-0.290 $\chi^2$/NDF: 189236.0/47

Right: 2782.549+/-0.432 $\chi^2$/NDF: 1828710.0/45

In: 2582.952+/-0.347 $\chi^2$/NDF:879294.8/42

Out: 2612.302+/-0.334 $\chi^2$/NDF:1399896.3/50

All: 2598.184+/-0.241 $\chi^2$/NDF: 2282903.7/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 13.7/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:32.3/22

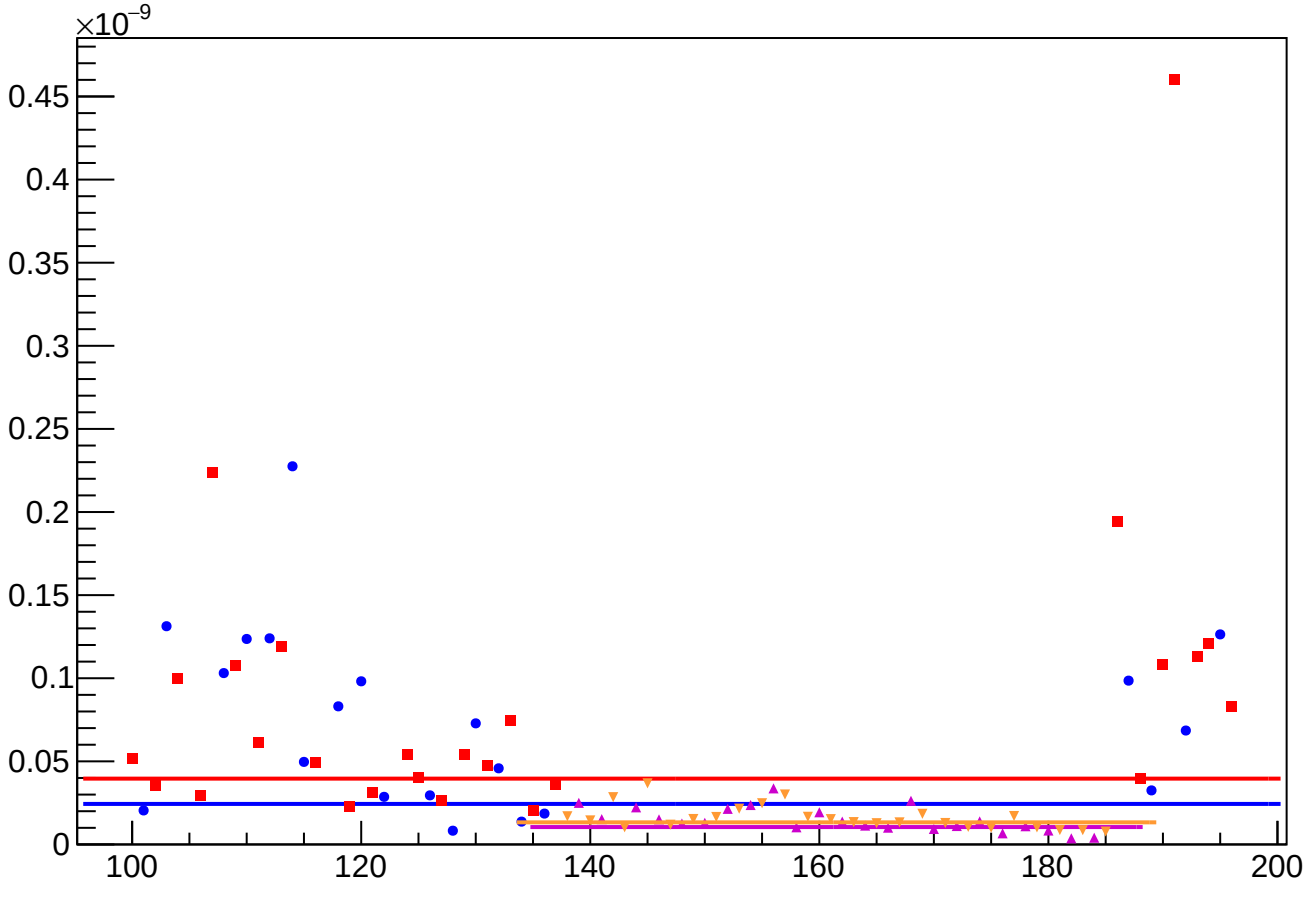
Left: -0.000+/-0.000 $\chi^2$/NDF: 66.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 29.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:48.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:43.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 96.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3266472.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1472019.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2577459.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2813965.8/22

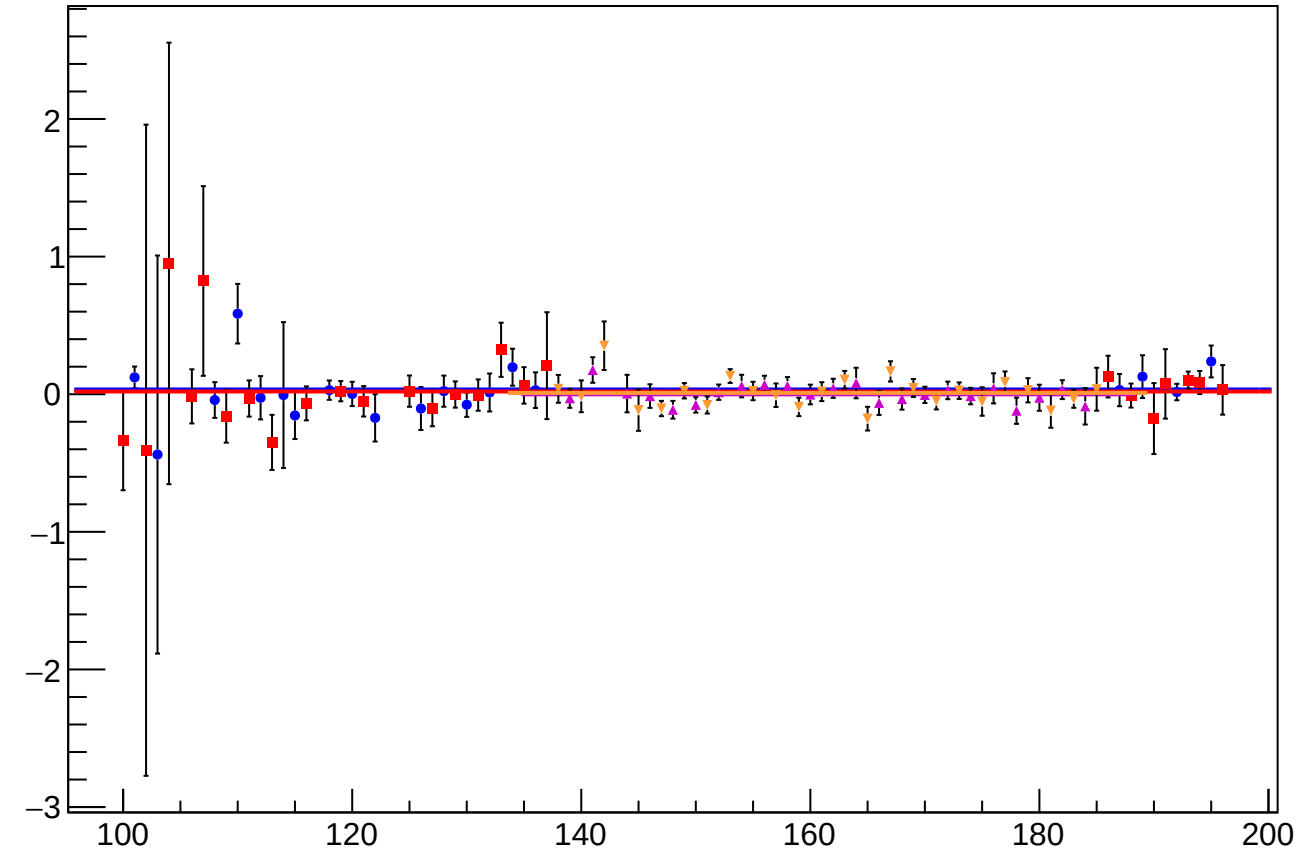
Left: 0.000+/-0.000 $\chi^2$/NDF: 4603369.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6453914.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:7401707.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6726884.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 14547240.8/93




Right In: 0.034+/-0.025 $\chi^2$/NDF: 18.5/19

Left Out: 0.009+/-0.015 $\chi^2$/NDF:34.7/23

Right Out: 0.020+/-0.026 $\chi^2$/NDF: 15.4/24

Left In: -0.001+/-0.015 $\chi^2$/NDF:15.6/22

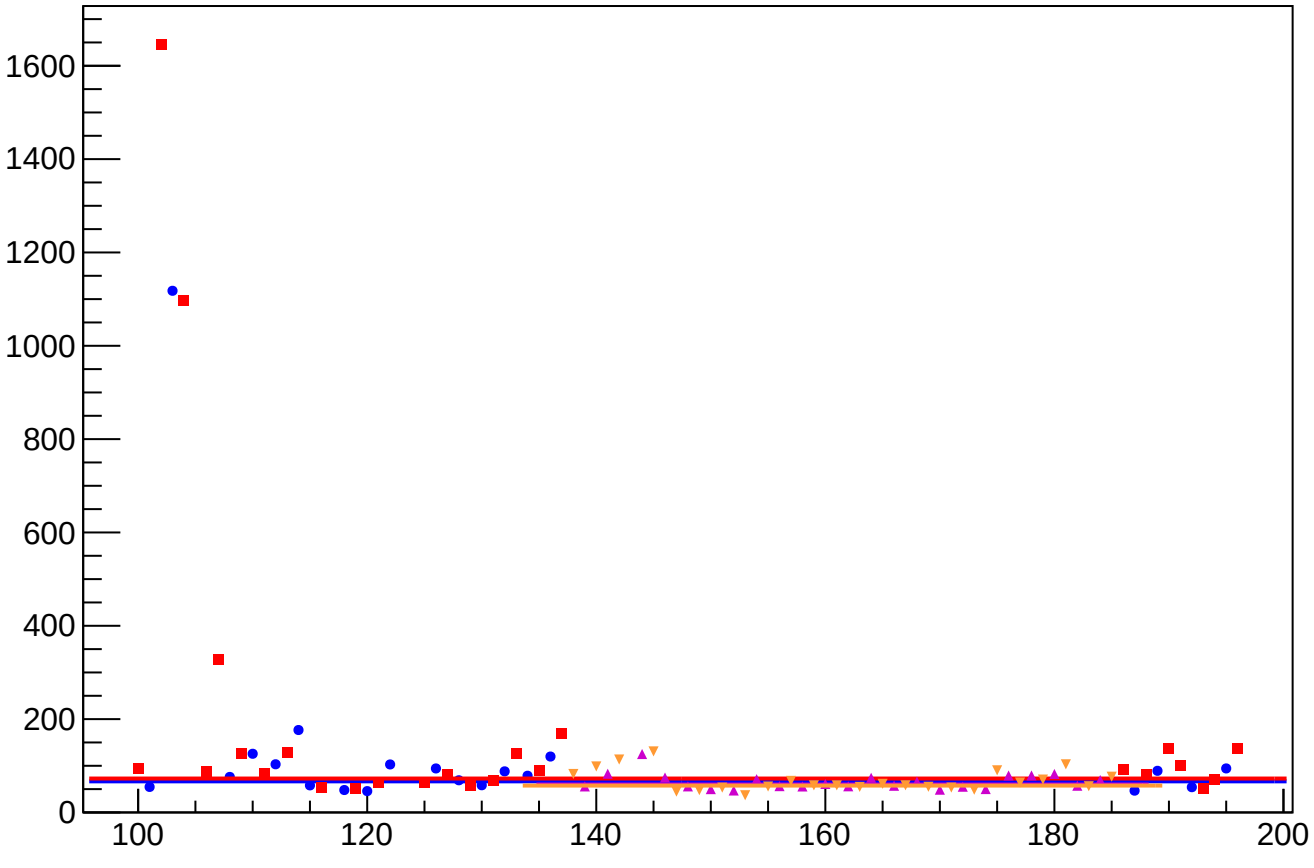
Left: 0.004+/-0.011 $\chi^2$/NDF: 50.5/46

Right: 0.027+/-0.018 $\chi^2$/NDF: 34.1/44

In: 0.009+/-0.013 $\chi^2$/NDF:35.5/42

Out: 0.012+/-0.013 $\chi^2$/NDF:50.3/48

All: 0.011+/-0.009 $\chi^2$/NDF: 85.8/91




Right In: 66.660+/-0.018 $\chi^2$/NDF: 2586413.5/19

Left Out: 57.606+/-0.011 $\chi^2$/NDF:2213142.2/23

Right Out: 72.691+/-0.018 $\chi^2$/NDF: 3624006.3/24

Left In: 59.828+/-0.011 $\chi^2$/NDF:1340700.1/22

Left: 58.689+/-0.008 $\chi^2$/NDF: 3574922.2/46

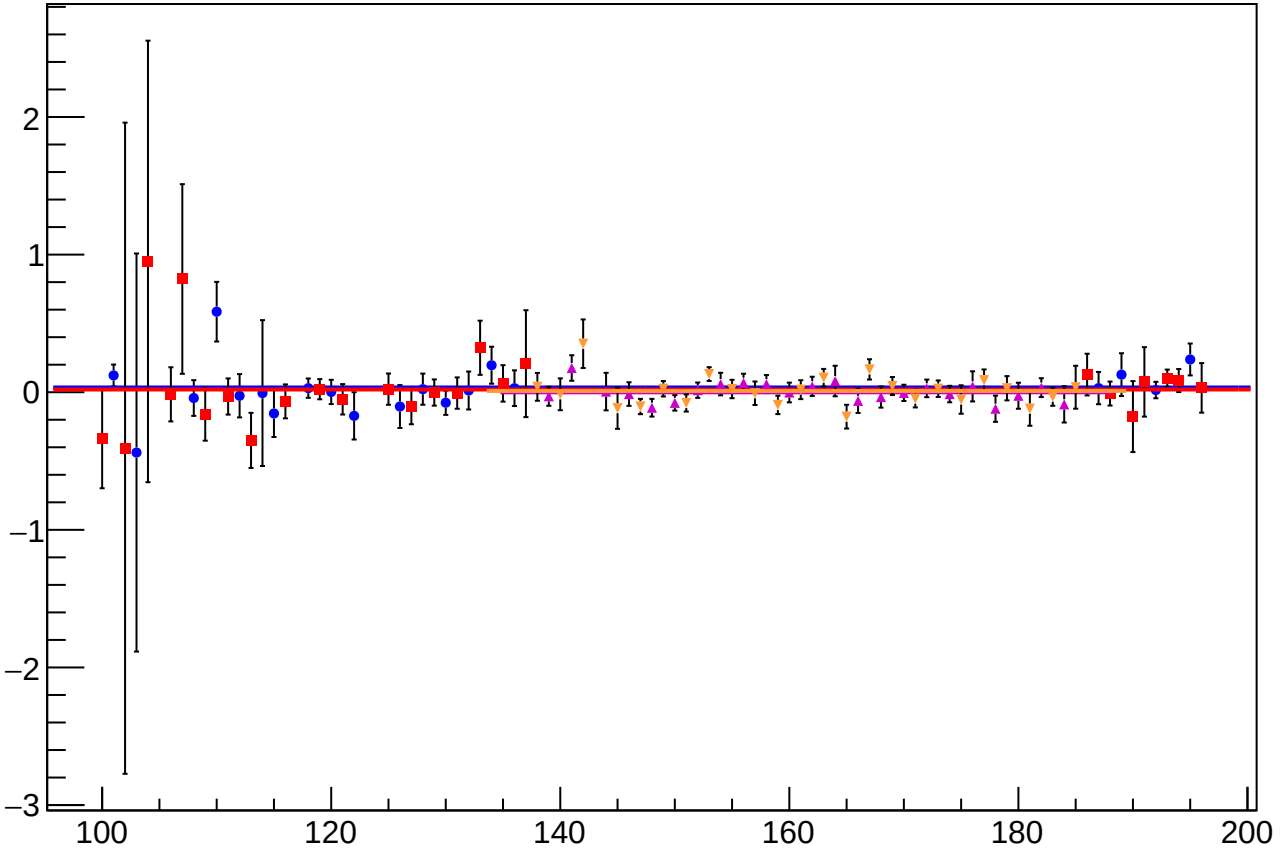
Right: 69.637+/-0.013 $\chi^2$/NDF: 6266730.8/44

In: 61.696+/-0.009 $\chi^2$/NDF:4033446.8/42

Out: 61.508+/-0.009 $\chi^2$/NDF:6352974.2/48

All: 61.600+/-0.007 $\chi^2$/NDF: 10386626.1/91

asym_atl1_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.034+/-0.025 $\chi^2$/NDF: 18.5/19

Left Out: 0.009+/-0.015 $\chi^2$/NDF:34.7/23

Right Out: 0.020+/-0.026 $\chi^2$/NDF: 15.4/24

Left In: -0.001+/-0.015 $\chi^2$/NDF:15.6/22

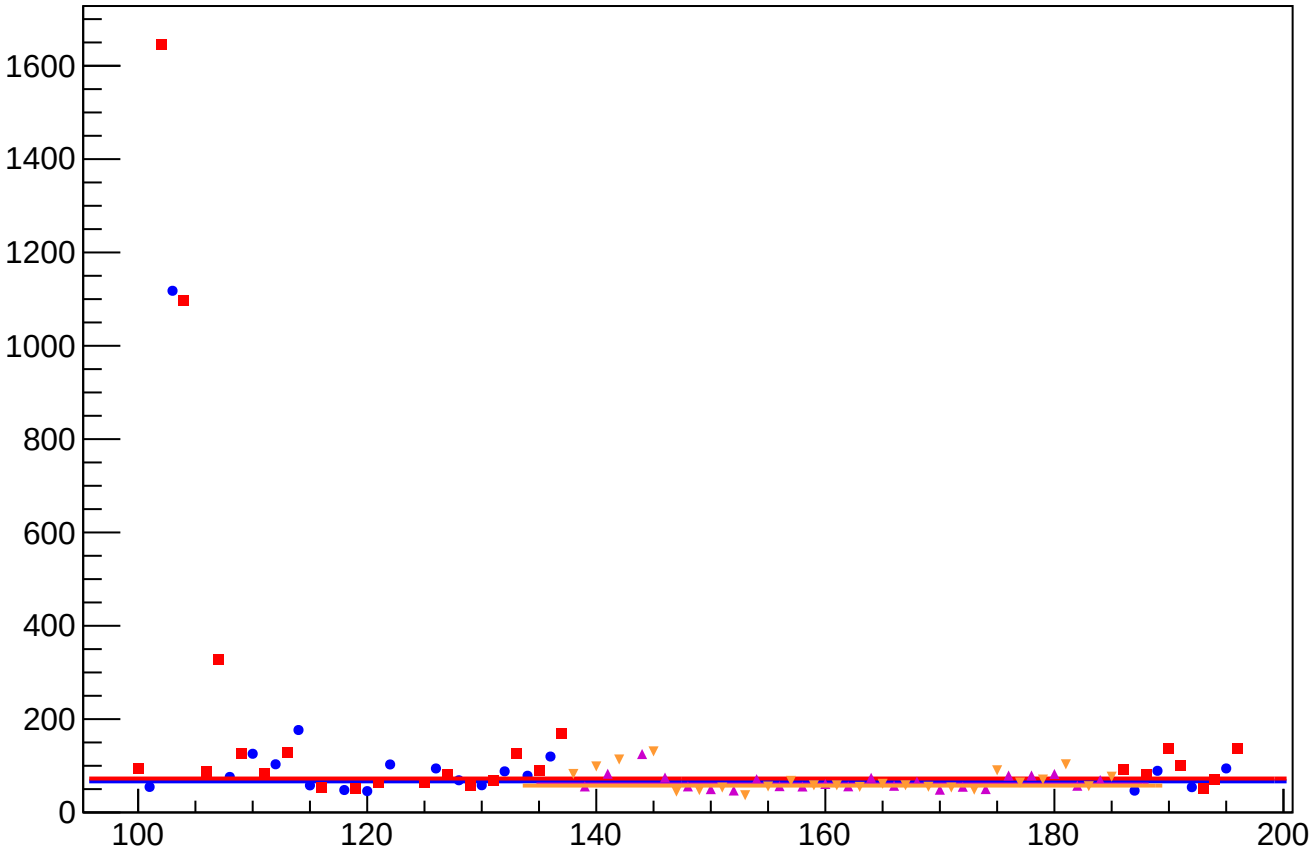
Left: 0.004+/-0.011 $\chi^2$/NDF: 50.5/46

Right: 0.027+/-0.018 $\chi^2$/NDF: 34.1/44

In: 0.009+/-0.013 $\chi^2$/NDF:35.5/42

Out: 0.012+/-0.013 $\chi^2$/NDF:50.3/48

All: 0.011+/-0.009 $\chi^2$/NDF: 85.8/91




Right In: 66.660+/-0.018 $\chi^2$/NDF: 2586413.5/19

Left Out: 57.606+/-0.011 $\chi^2$/NDF:2213142.2/23

Right Out: 72.691+/-0.018 $\chi^2$/NDF: 3624006.3/24

Left In: 59.828+/-0.011 $\chi^2$/NDF:1340700.1/22

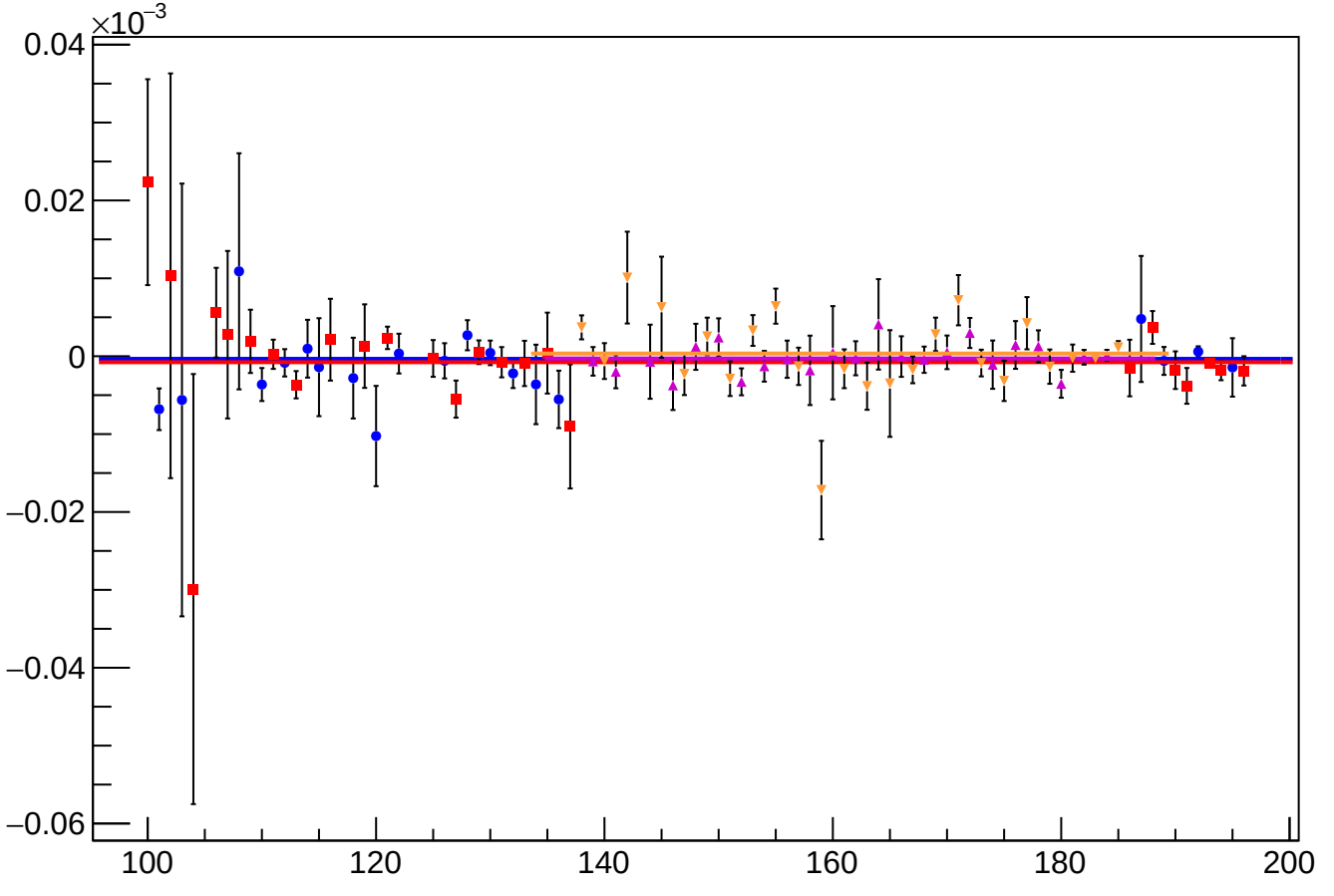
Left: 58.689+/-0.008 $\chi^2$/NDF: 3574922.2/46

Right: 69.637+/-0.013 $\chi^2$/NDF: 6266730.8/44

In: 61.696+/-0.009 $\chi^2$/NDF:4033446.8/42

Out: 61.508+/-0.009 $\chi^2$/NDF:6352974.2/48

All: 61.600+/-0.007 $\chi^2$/NDF: 10386626.1/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:46.8/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.7/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.9/22

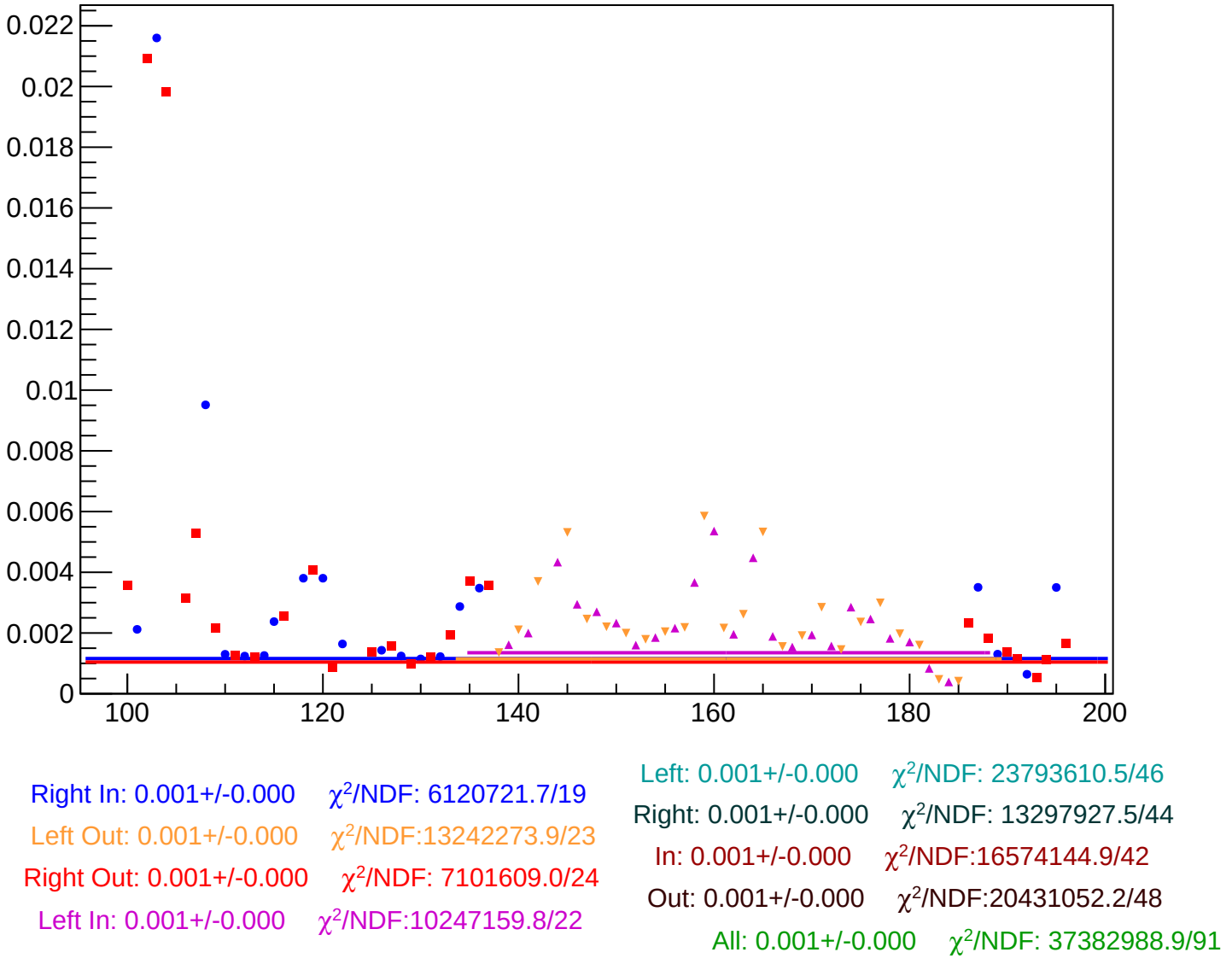
Left: 0.000+/-0.000 $\chi^2$/NDF: 63.2/46

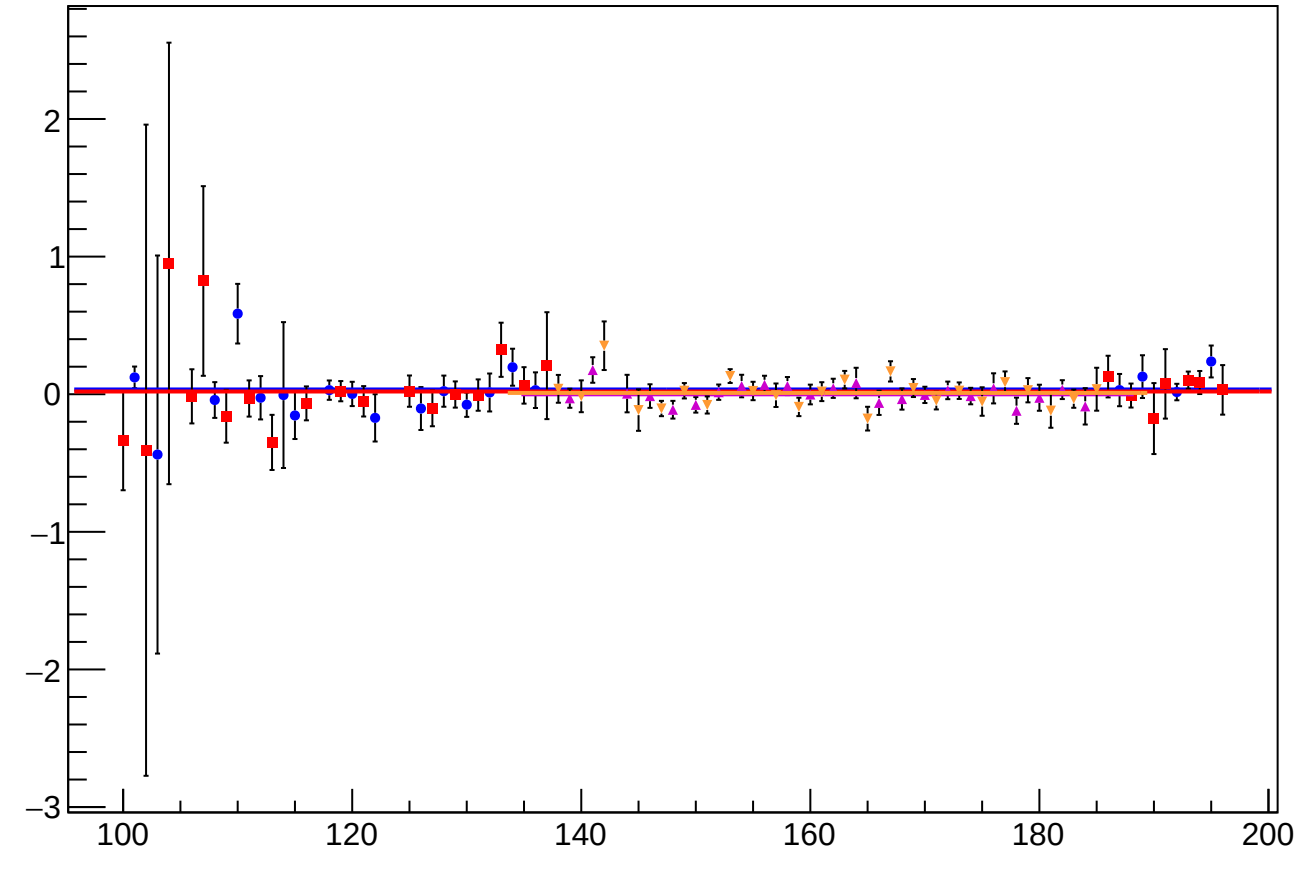
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.5/44

In: -0.000+/-0.000 $\chi^2$/NDF:35.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:79.2/48

All: -0.000+/-0.000 $\chi^2$/NDF: 114.5/91


asym_atl1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
100
120
140
160
180
200
Right In: 0.001+/-0.000 χ²/NDF: 6120721.7/19
Left Out: 0.001+/-0.000 χ²/NDF:13242273.9/23
Right Out: 0.001+/-0.000 χ²/NDF: 7101609.0/24
Left In: 0.001+/-0.000 χ²/NDF:10247159.8/22
Left: 0.001+/-0.000 χ²/NDF: 23793610.5/46
Right: 0.001+/-0.000 χ²/NDF: 13297927.5/44
In: 0.001+/-0.000 χ²/NDF:16574144.9/42
Out: 0.001+/-0.000 χ²/NDF:20431052.2/48
All: 0.001+/-0.000 χ²/NDF: 37382988.9/91




Right In: 0.034+/-0.025 $\chi^2$/NDF: 18.5/19

Left Out: 0.009+/-0.015 $\chi^2$/NDF:34.7/23

Right Out: 0.020+/-0.026 $\chi^2$/NDF: 15.4/24

Left In: -0.001+/-0.015 $\chi^2$/NDF:15.6/22

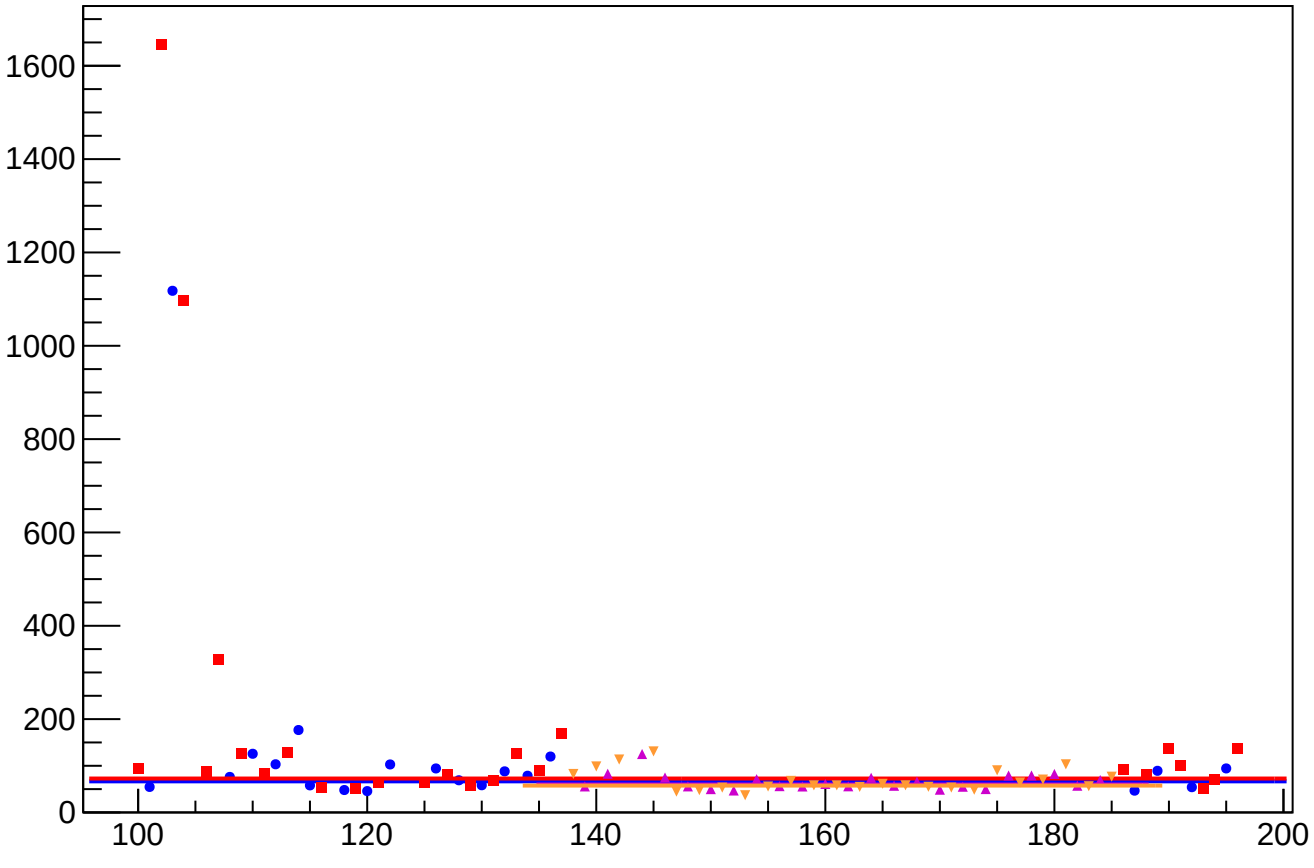
Left: 0.004+/-0.011 $\chi^2$/NDF: 50.5/46

Right: 0.027+/-0.018 $\chi^2$/NDF: 34.1/44

In: 0.009+/-0.013 $\chi^2$/NDF:35.5/42

Out: 0.012+/-0.013 $\chi^2$/NDF:50.3/48

All: 0.011+/-0.009 $\chi^2$/NDF: 85.8/91




Right In: 66.659+/-0.018 $\chi^2$/NDF: 2586520.2/19

Left Out: 57.606+/-0.011 $\chi^2$/NDF:2213216.3/23

Right Out: 72.690+/-0.018 $\chi^2$/NDF: 3624020.4/24

Left In: 59.828+/-0.011 $\chi^2$/NDF:1340684.6/22

Left: 58.689+/-0.008 $\chi^2$/NDF: 3574984.0/46

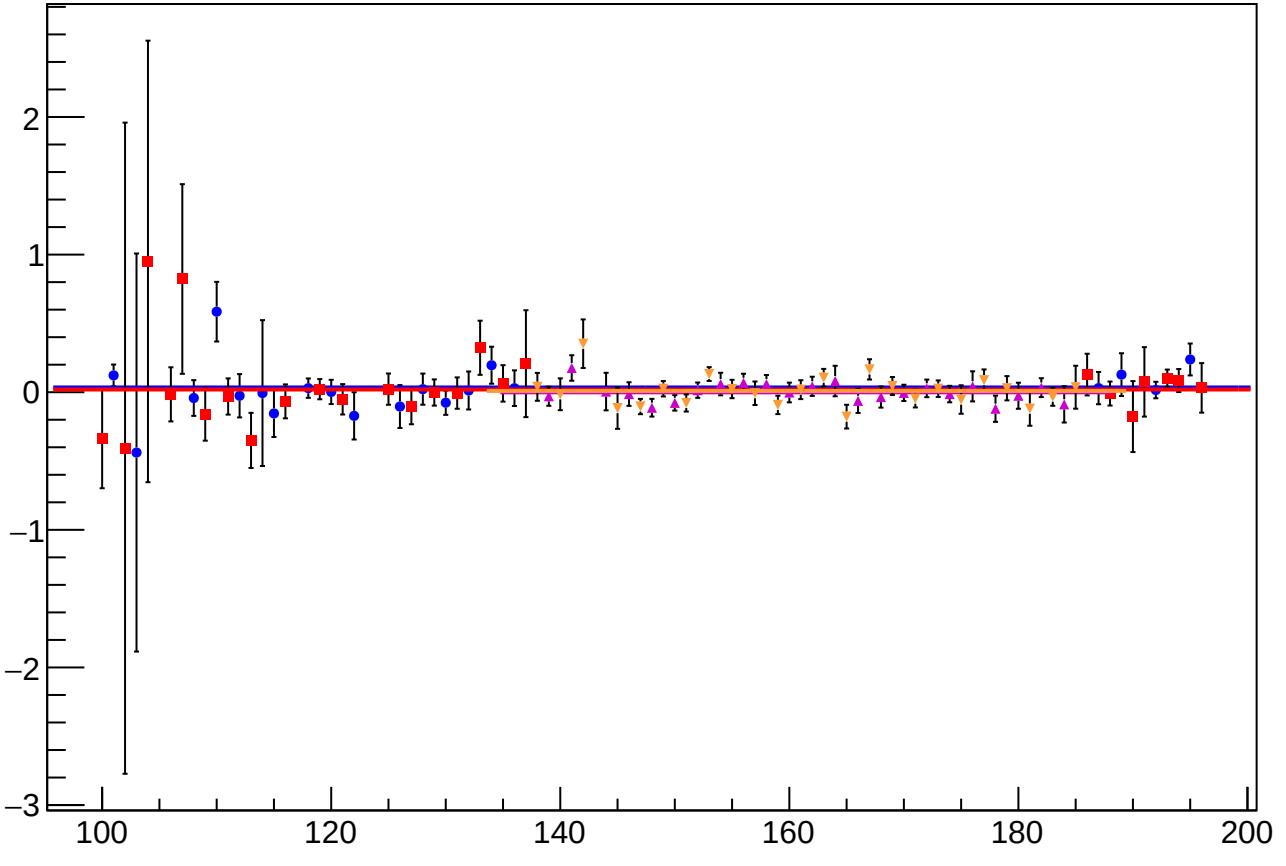
Right: 69.637+/-0.013 $\chi^2$/NDF: 6266859.9/44

In: 61.696+/-0.009 $\chi^2$/NDF:4033508.2/42

Out: 61.508+/-0.009 $\chi^2$/NDF:6353036.8/48

All: 61.600+/-0.007 $\chi^2$/NDF: 10386750.1/91

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.034+/-0.025 $\chi^2$/NDF: 18.5/19

Left Out: 0.009+/-0.015 $\chi^2$/NDF:34.7/23

Right Out: 0.020+/-0.026 $\chi^2$/NDF: 15.4/24

Left In: -0.001+/-0.015 $\chi^2$/NDF:15.6/22

Left: 0.004+/-0.011 $\chi^2$/NDF: 50.5/46

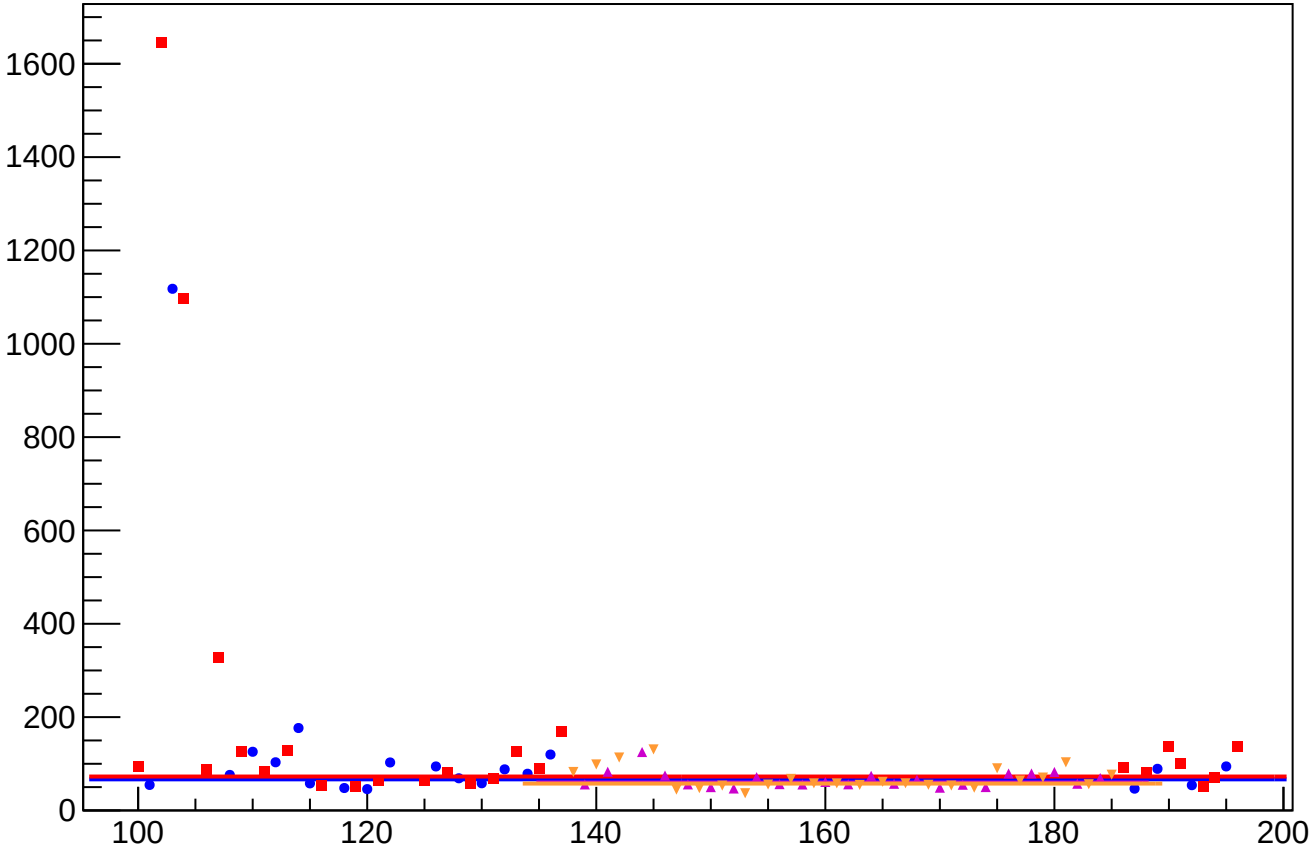
Right: 0.027+/-0.018 $\chi^2$/NDF: 34.1/44

In: 0.009+/-0.013 $\chi^2$/NDF:35.5/42

Out: 0.012+/-0.013 $\chi^2$/NDF:50.3/48

All: 0.011+/-0.009 $\chi^2$/NDF: 85.8/91

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.659+/-0.018 $\chi^2$/NDF: 2586520.2/19

Left Out: 57.606+/-0.011 $\chi^2$/NDF:2213216.3/23

Right Out: 72.690+/-0.018 $\chi^2$/NDF: 3624020.4/24

Left In: 59.828+/-0.011 $\chi^2$/NDF:1340684.6/22

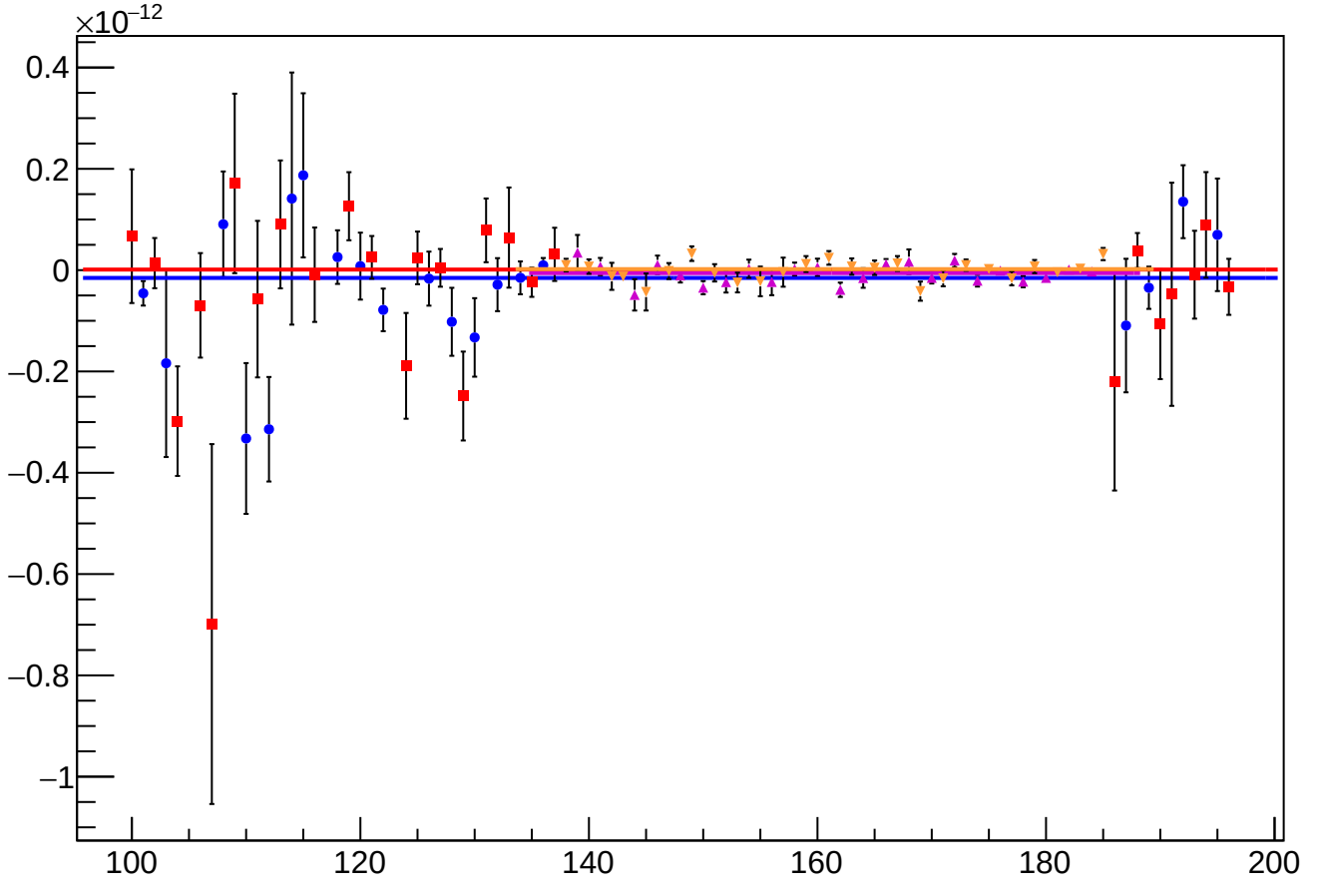
Left: 58.689+/-0.008 $\chi^2$/NDF: 3574984.0/46

Right: 69.637+/-0.013 $\chi^2$/NDF: 6266859.9/44

In: 61.696+/-0.009 $\chi^2$/NDF:4033508.2/42

Out: 61.508+/-0.009 $\chi^2$/NDF:6353036.8/48

All: 61.600+/-0.007 $\chi^2$/NDF: 10386750.1/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 34.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 36.7/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:32.6/22

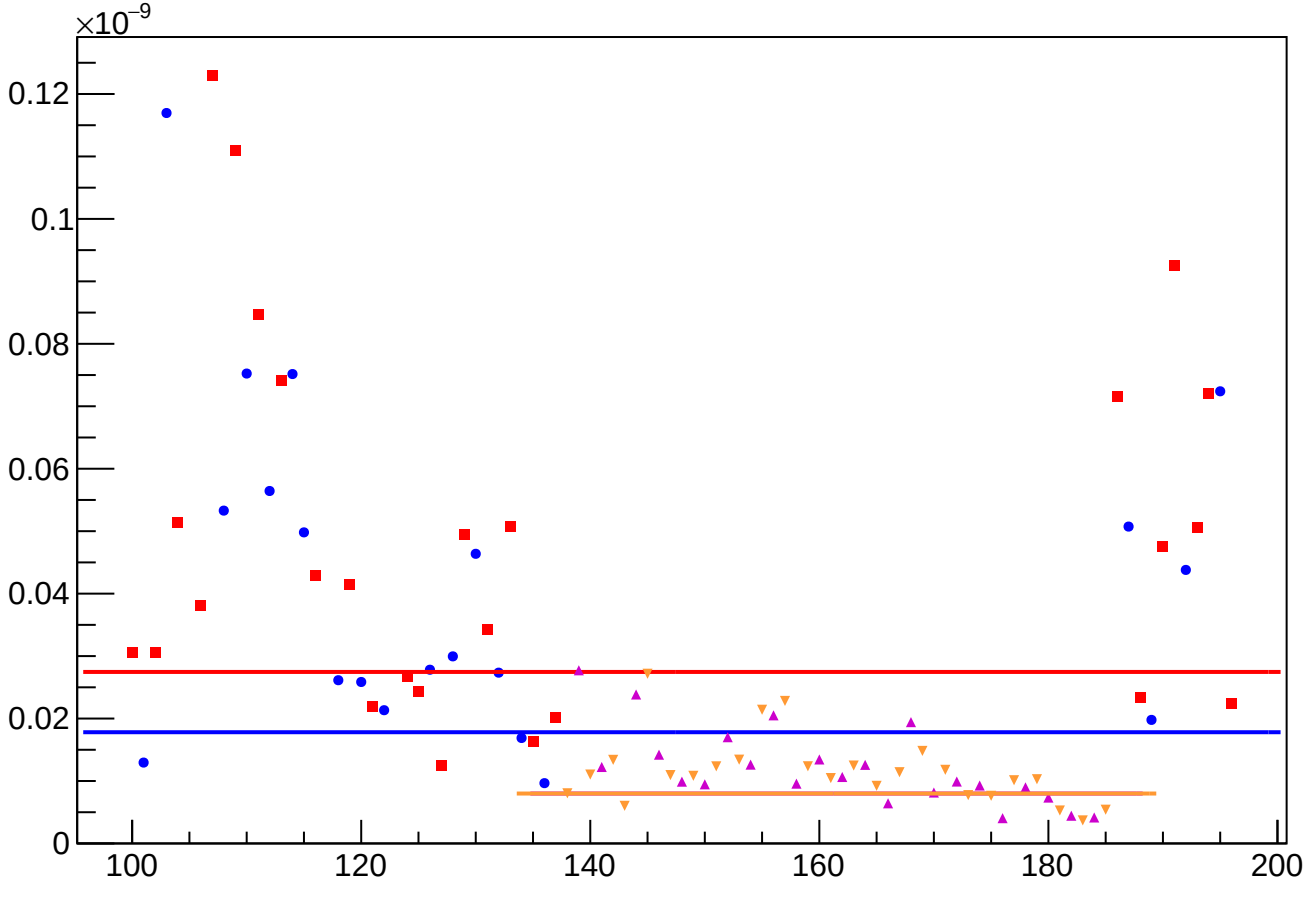
Left: -0.000+/-0.000 $\chi^2$/NDF: 69.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 71.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:67.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:68.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 142.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3726962.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4887759.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3243683.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:5188583.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 10076343.4/47

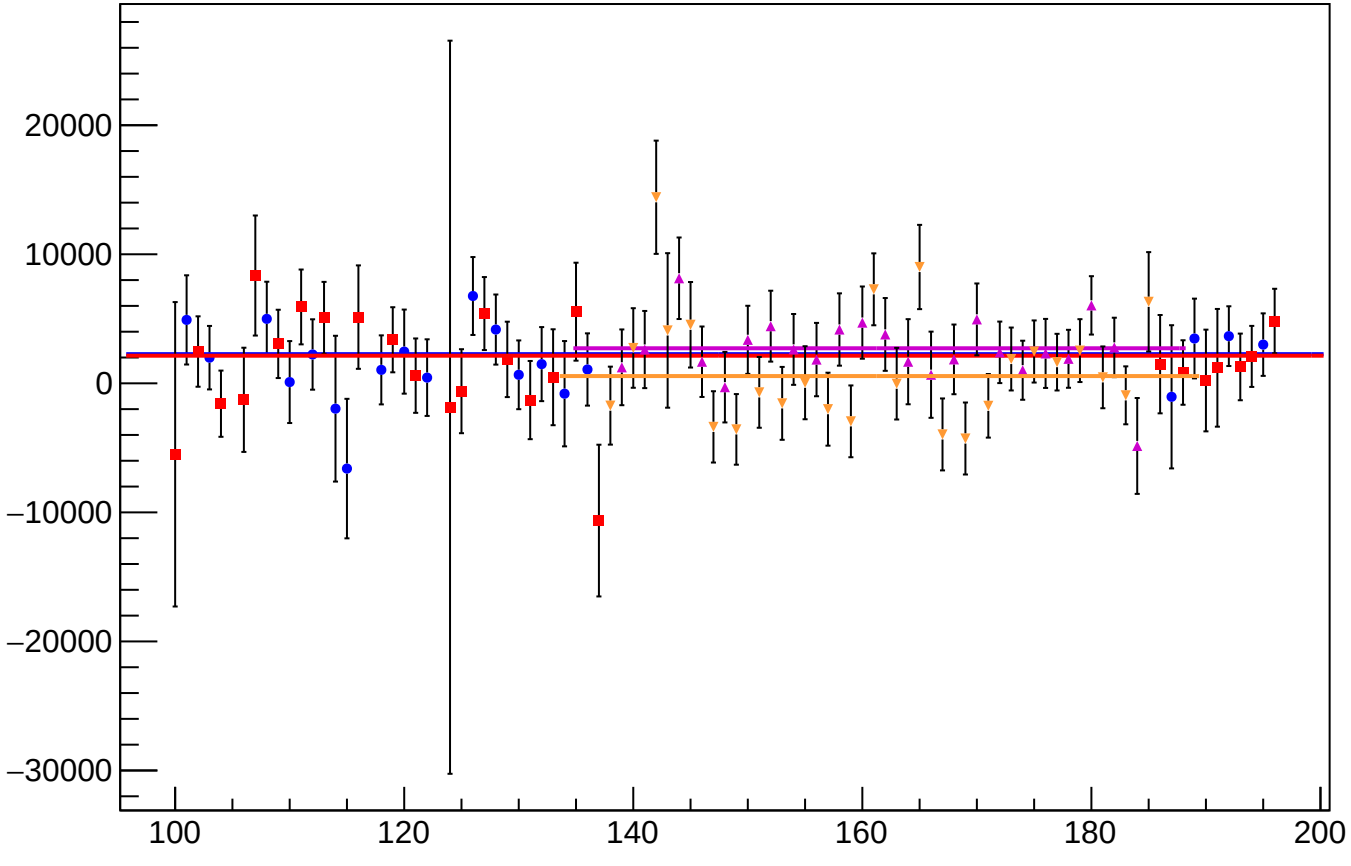
Right: 0.000+/-0.000 $\chi^2$/NDF: 7725656.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:10884255.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12830177.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 23715634.4/93

# reg_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2259.973+/-673.302 $\chi^2$/NDF: 10.7/19

Left Out: 562.390+/-557.316 $\chi^2$/NDF:43.9/24

Right Out: 2140.829+/-622.667 $\chi^2$/NDF: 20.0/25

Left In: 2716.200+/-566.202 $\chi^2$/NDF:14.3/22

Left: 1622.262+/-397.186 $\chi^2$/NDF: 65.6/47

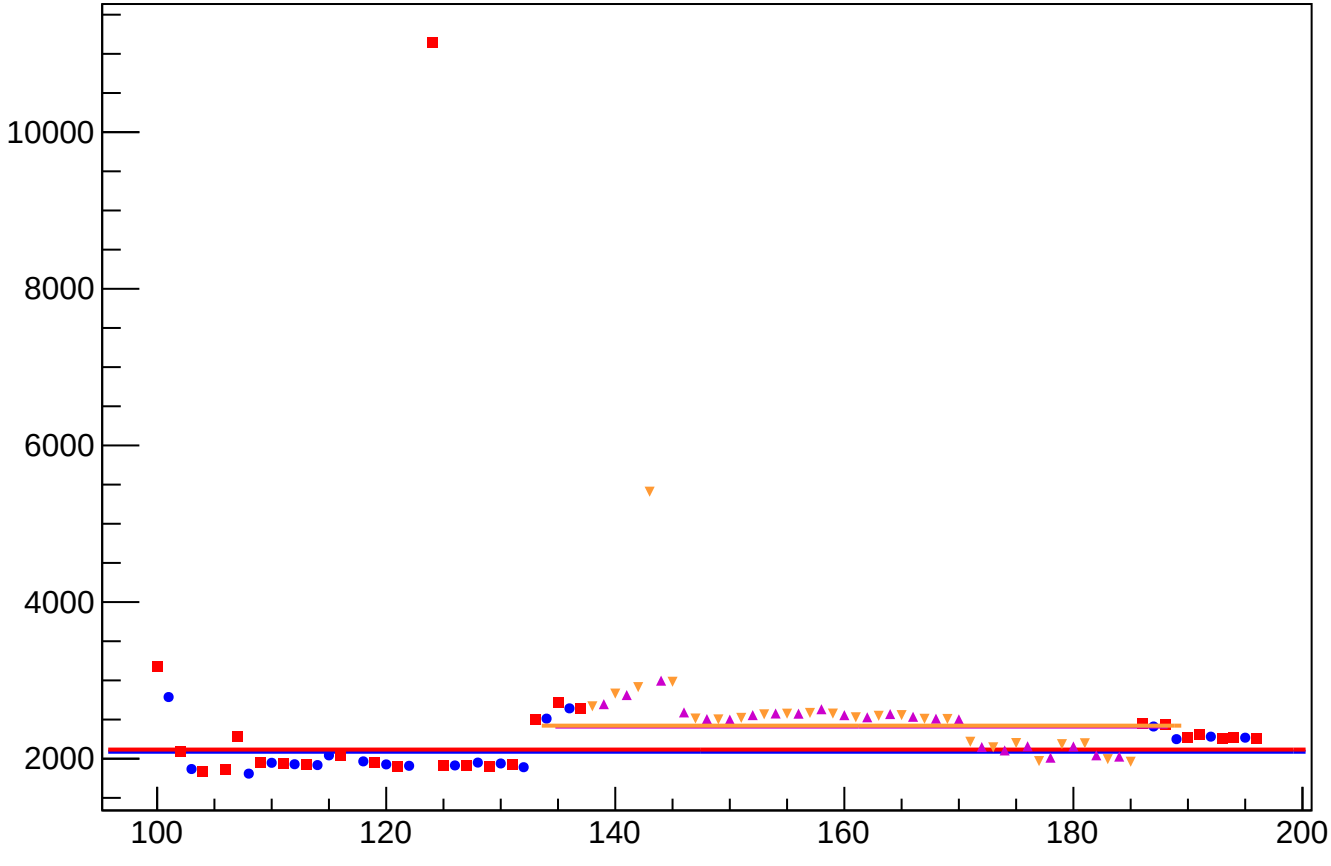
Right: 2195.753+/-457.146 $\chi^2$/NDF: 30.7/45

In: 2527.215+/-433.344 $\chi^2$/NDF:25.2/42

Out: 1264.459+/-415.271 $\chi^2$/NDF:67.5/50

All: 1868.956+/-299.827 $\chi^2$/NDF: 97.2/93

# reg_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2089.024+/-0.476 $\chi^2$/NDF: 310302.6/19

Left Out: 2422.152+/-0.394 $\chi^2$/NDF:952857.9/24

Right Out: 2116.803+/-0.440 $\chi^2$/NDF: 499333.1/25

Left In: 2409.820+/-0.400 $\chi^2$/NDF:428364.2/22

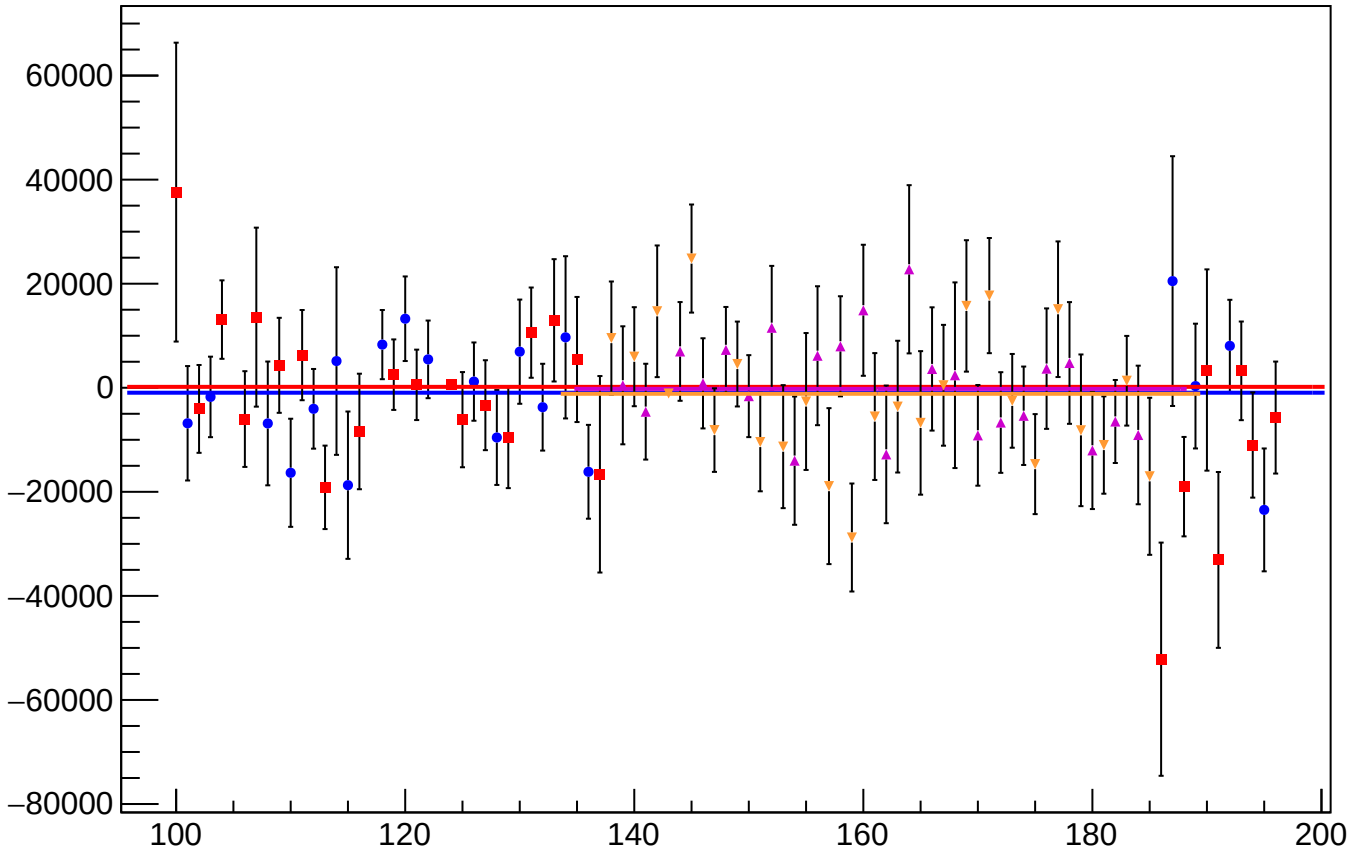
Left: 2416.083+/-0.281 $\chi^2$/NDF: 1381704.0/47

Right: 2103.997+/-0.323 $\chi^2$/NDF: 811470.7/45

In: 2276.935+/-0.306 $\chi^2$/NDF:1004611.2/42

Out: 2286.337+/-0.294 $\chi^2$/NDF:1719227.1/50

All: 2281.836+/-0.212 $\chi^2$/NDF: 2724329.1/93




Right In: -953.016+/-2126.018 $\chi^2$/NDF: 20.8/19

Left Out: -1158.214+/-757.797 $\chi^2$/NDF:31.9/24

Right Out: 173.748+/-757.483 $\chi^2$/NDF: 33.7/25

Left In: -209.655+/-2195.058 $\chi^2$/NDF:13.4/22

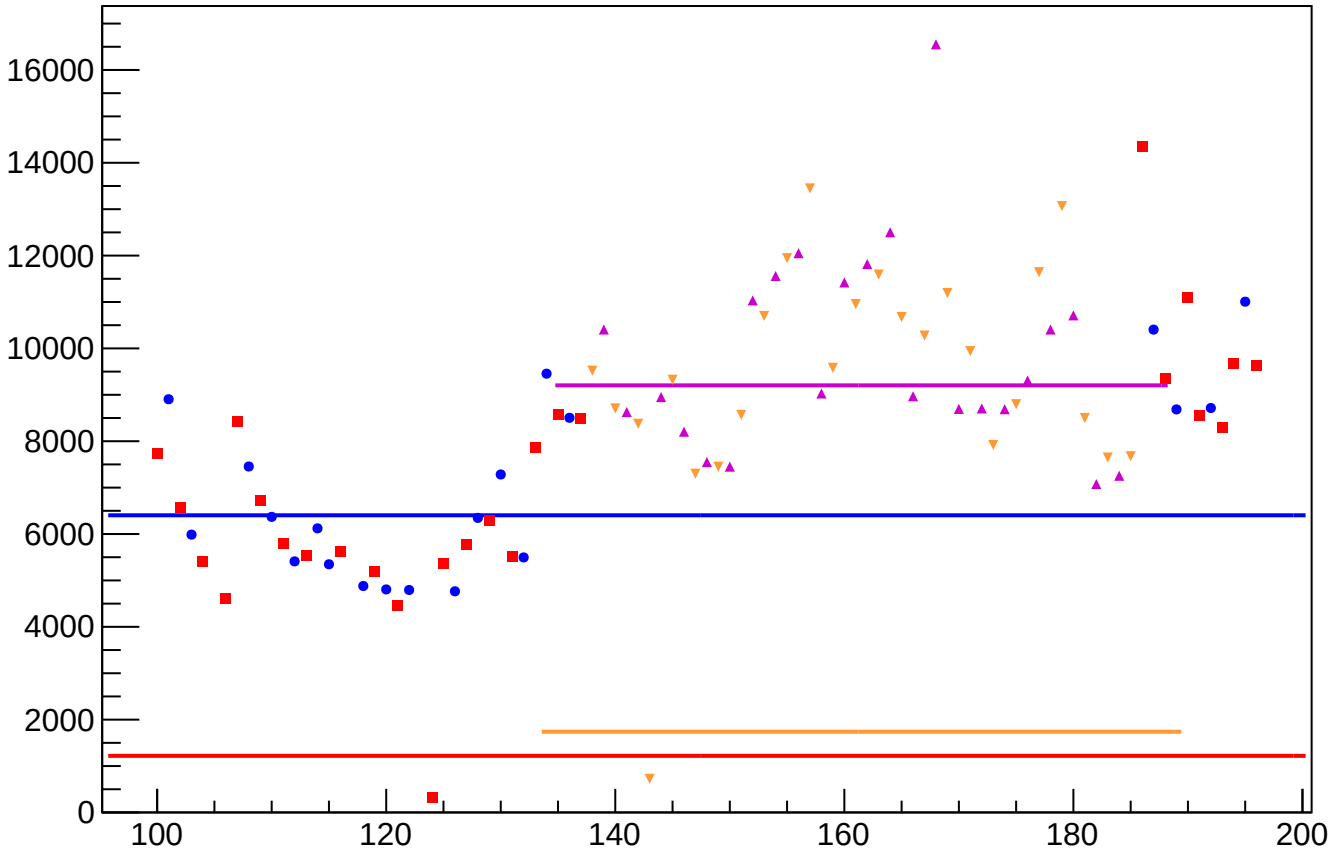
Left: -1057.201+/-716.312 $\chi^2$/NDF: 45.5/47

Right: 46.825+/-713.546 $\chi^2$/NDF: 54.7/45

In: -593.210+/-1527.146 $\chi^2$/NDF:34.3/42

Out: -491.957+/-535.732 $\chi^2$/NDF:67.1/50

All: -503.052+/-505.528 $\chi^2$/NDF: 101.4/93




Right In: 6403.810+/-1.503 $\chi^2$/NDF: 1333167.9/19

Left Out: 1739.692+/-0.536 $\chi^2$/NDF:27734045.9/24

Right Out: 1220.214+/-0.536 $\chi^2$/NDF: 18373143.6/25

Left In: 9203.758+/-1.552 $\chi^2$/NDF:1272066.5/22

Left: 2534.547+/-0.507 $\chi^2$/NDF: 49668848.5/47

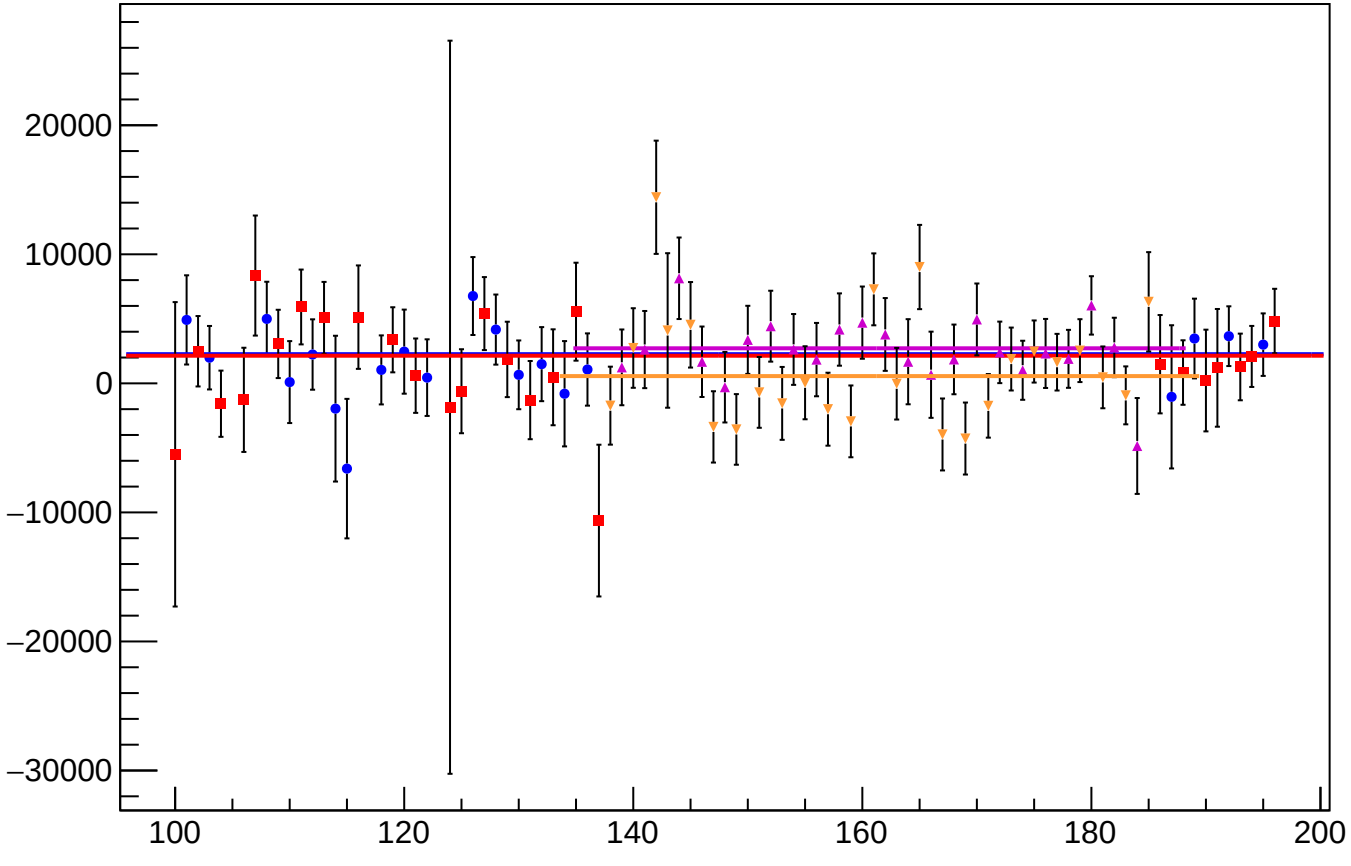
Right: 1804.118+/-0.505 $\chi^2$/NDF: 30256400.4/45

In: 7759.059+/-1.080 $\chi^2$/NDF:4284291.2/42

Out: 1479.845+/-0.379 $\chi^2$/NDF:46577308.5/50

All: 2167.919+/-0.357 $\chi^2$/NDF: 80969077.3/9

# cor_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2260.054+/-673.302 $\chi^2$/NDF: 10.7/19

Left Out: 562.392+/-557.316 $\chi^2$/NDF:43.9/24

Right Out: 2142.075+/-622.671 $\chi^2$/NDF: 20.0/25

Left In: 2716.163+/-566.202 $\chi^2$/NDF:14.3/22

Left: 1622.245+/-397.186 $\chi^2$/NDF: 65.6/47

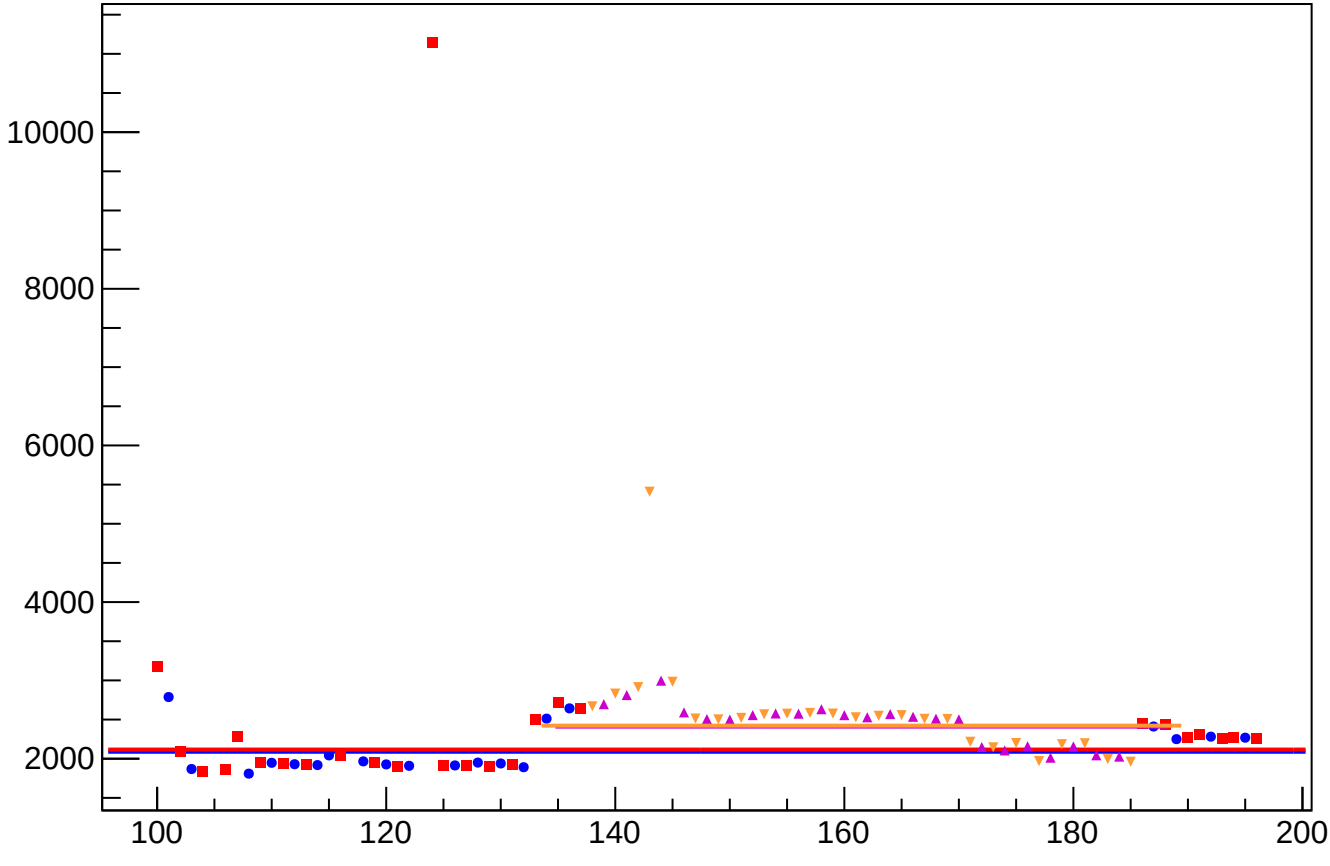
Right: 2196.462+/-457.148 $\chi^2$/NDF: 30.7/45

In: 2527.226+/-433.344 $\chi^2$/NDF:25.2/42

Out: 1265.008+/-415.272 $\chi^2$/NDF:67.5/50

All: 1869.250+/-299.827 $\chi^2$/NDF: 97.2/93

# cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2089.024+/-0.476 $\chi^2$/NDF: 310302.4/19

Left Out: 2422.152+/-0.394 $\chi^2$/NDF:952857.9/24

Right Out: 2116.819+/-0.440 $\chi^2$/NDF: 499329.8/25

Left In: 2409.820+/-0.400 $\chi^2$/NDF:428364.2/22

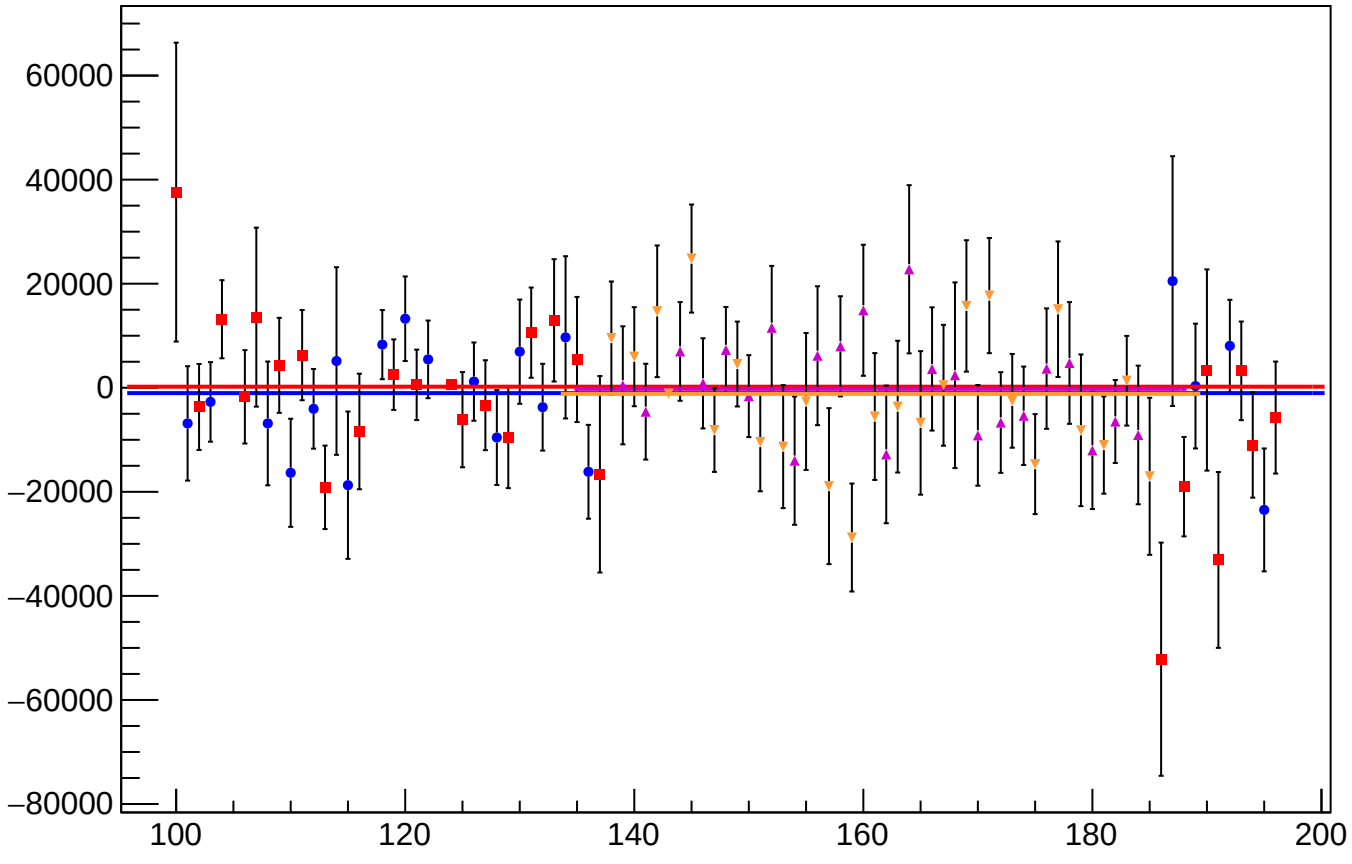
Left: 2416.083+/-0.281 $\chi^2$/NDF: 1381703.9/47

Right: 2104.006+/-0.323 $\chi^2$/NDF: 811469.4/45

In: 2276.935+/-0.306 $\chi^2$/NDF:1004611.3/42

Out: 2286.345+/-0.294 $\chi^2$/NDF:1719194.1/50

All: 2281.840+/-0.212 $\chi^2$/NDF: 2724297.0/93




Right In: -1029.154+/-2124.107 $\chi^2$/NDF: 20.9/19

Left Out: -1157.974+/-757.732 $\chi^2$/NDF:31.9/24

Right Out: 206.405+/-757.158 $\chi^2$/NDF: 33.3/25

Left In: -209.500+/-2195.055 $\chi^2$/NDF:13.4/22

Left: -1056.985+/-716.258 $\chi^2$/NDF: 45.5/47

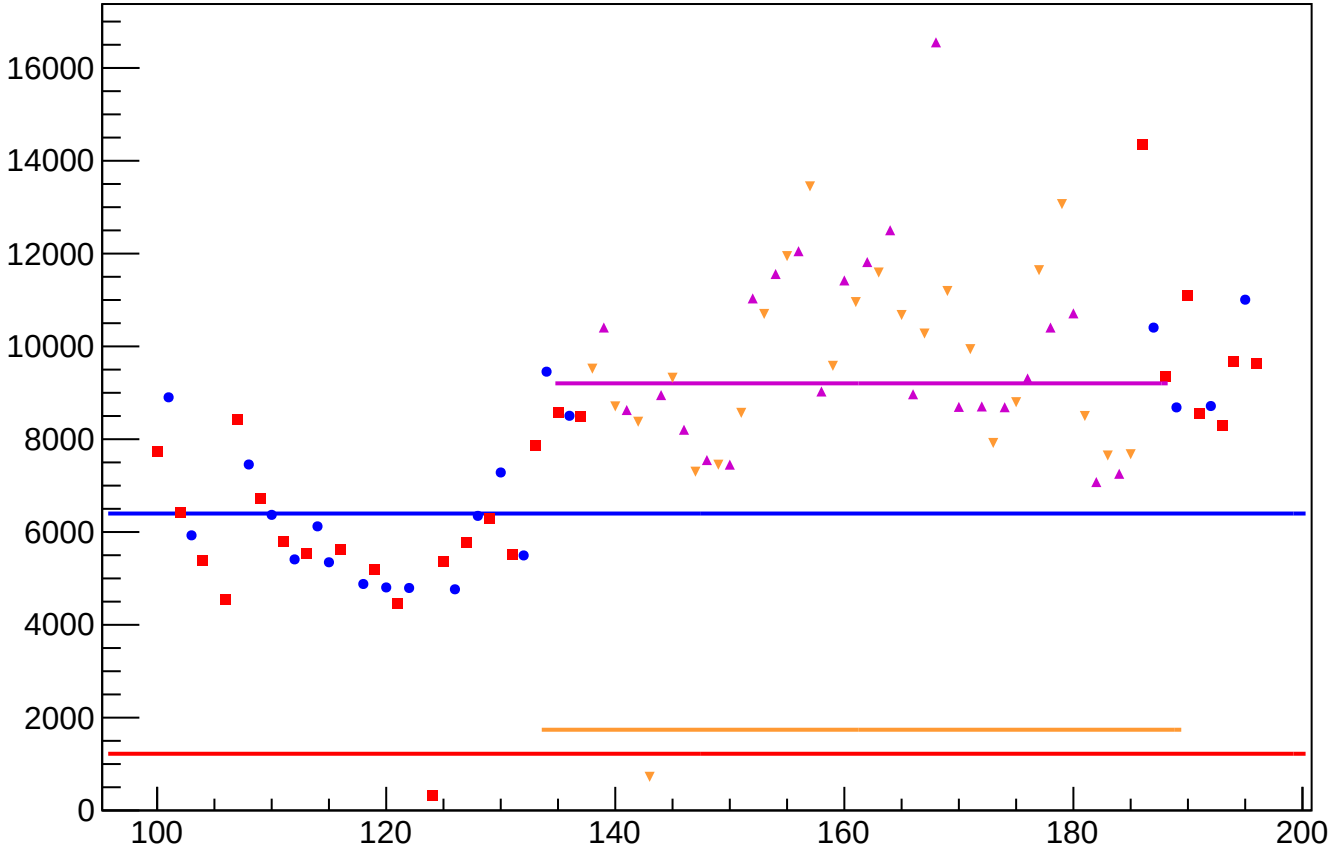
Right: 67.110+/-713.202 $\chi^2$/NDF: 54.4/45

In: -632.788+/-1526.437 $\chi^2$/NDF:34.3/42

Out: -475.267+/-535.595 $\chi^2$/NDF:66.8/50

All: -492.534+/-505.387 $\chi^2$/NDF: 101.2/93

# asym_atl2_cor_correction_rms vs Slug, Sign Corrected




Right In: 6398.517+/-1.502 $\chi^2$/NDF: 1334961.9/19

Left Out: 1739.457+/-0.536 $\chi^2$/NDF:27735092.1/24

Right Out: 1221.691+/-0.535 $\chi^2$/NDF: 18366692.3/25

Left In: 9203.744+/-1.552 $\chi^2$/NDF:1272079.0/22

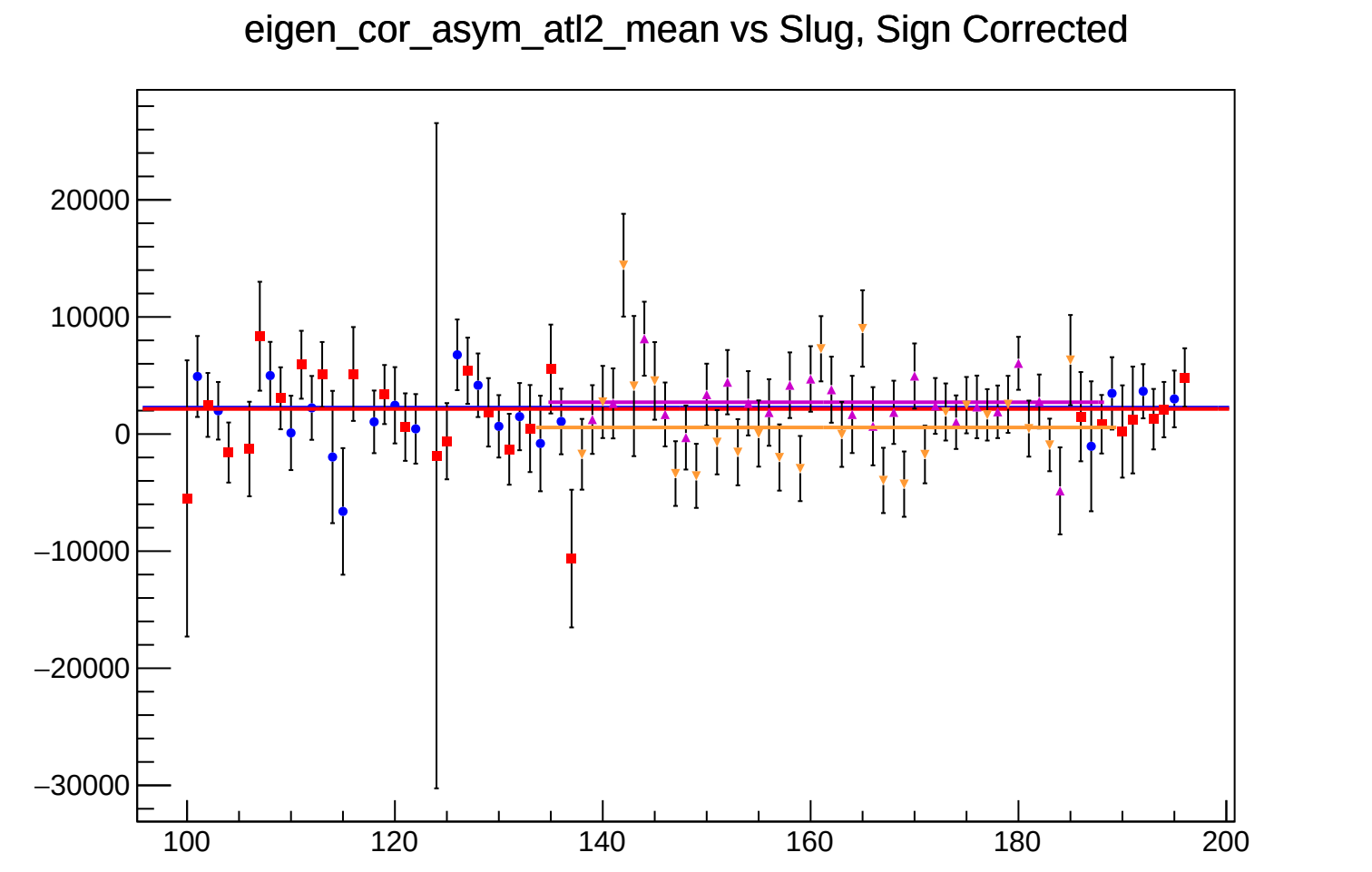
Left: 2534.217+/-0.506 $\chi^2$/NDF: 49671551.4/47

Right: 1805.318+/-0.504 $\chi^2$/NDF: 30242028.6/45

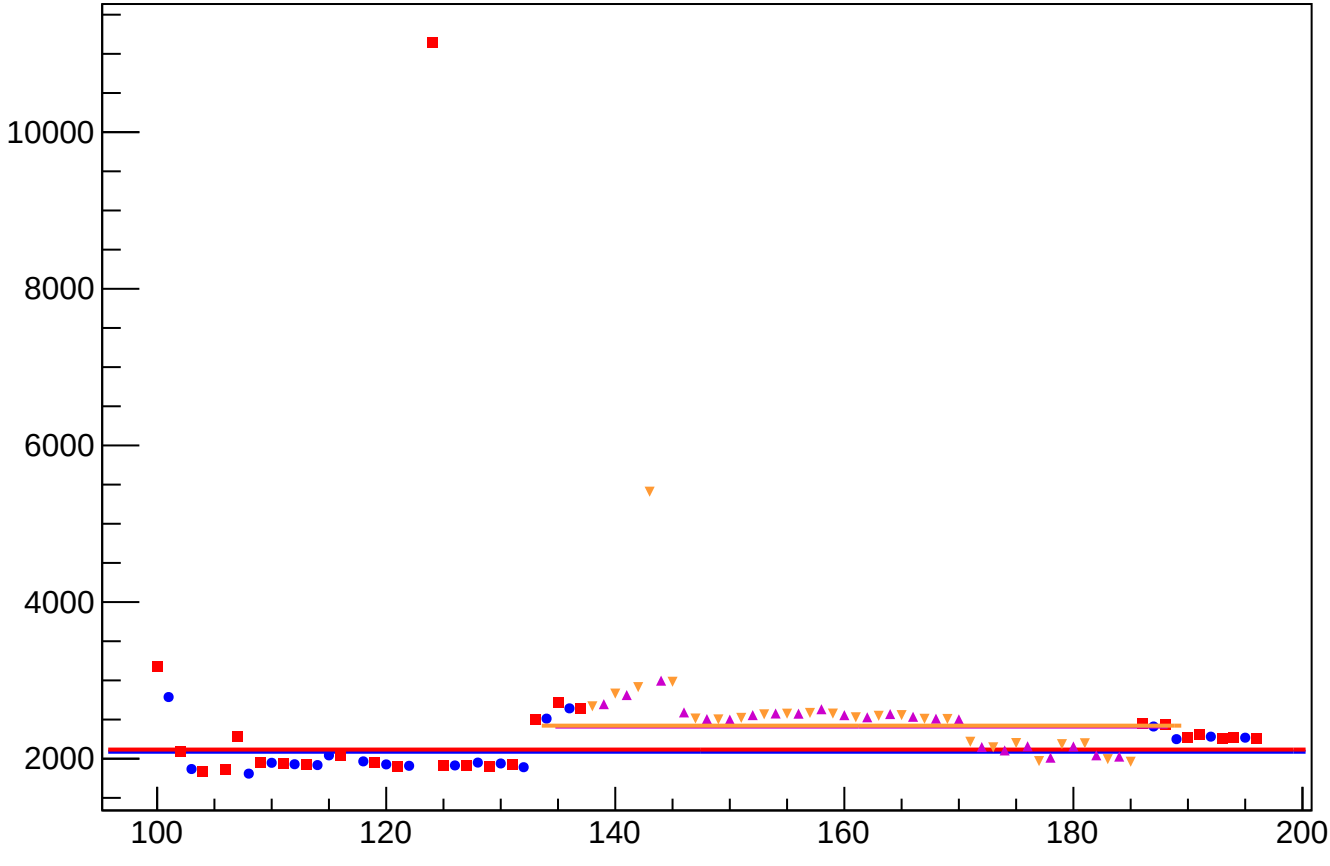
In: 7755.063+/-1.079 $\chi^2$/NDF:4293904.1/42

Out: 1480.378+/-0.379 $\chi^2$/NDF:46569052.2/50

All: 2168.209+/-0.357 $\chi^2$/NDF: 80953618.4/9


eigen_cor_asym_atl2_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 2260.054+/-673.302 χ²/NDF: 10.7/19
Left Out: 562.392+/-557.316 χ²/NDF:43.9/24
Right Out: 2142.075+/-622.671 χ²/NDF: 20.0/25
Left In: 2716.163+/-566.202 χ²/NDF:14.3/22
Left: 1622.245+/-397.186 χ²/NDF: 65.6/47
Right: 2196.462+/-457.148 χ²/NDF: 30.7/45
In: 2527.226+/-433.344 χ²/NDF:25.2/42
Out: 1265.008+/-415.272 χ²/NDF:67.5/50
All: 1869.250+/-299.827 χ²/NDF: 97.2/93

# eigen_cor_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2089.024+/-0.476 $\chi^2$/NDF: 310302.4/19

Left Out: 2422.152+/-0.394 $\chi^2$/NDF:952857.9/24

Right Out: 2116.819+/-0.440 $\chi^2$/NDF: 499329.8/25

Left In: 2409.820+/-0.400 $\chi^2$/NDF:428364.2/22

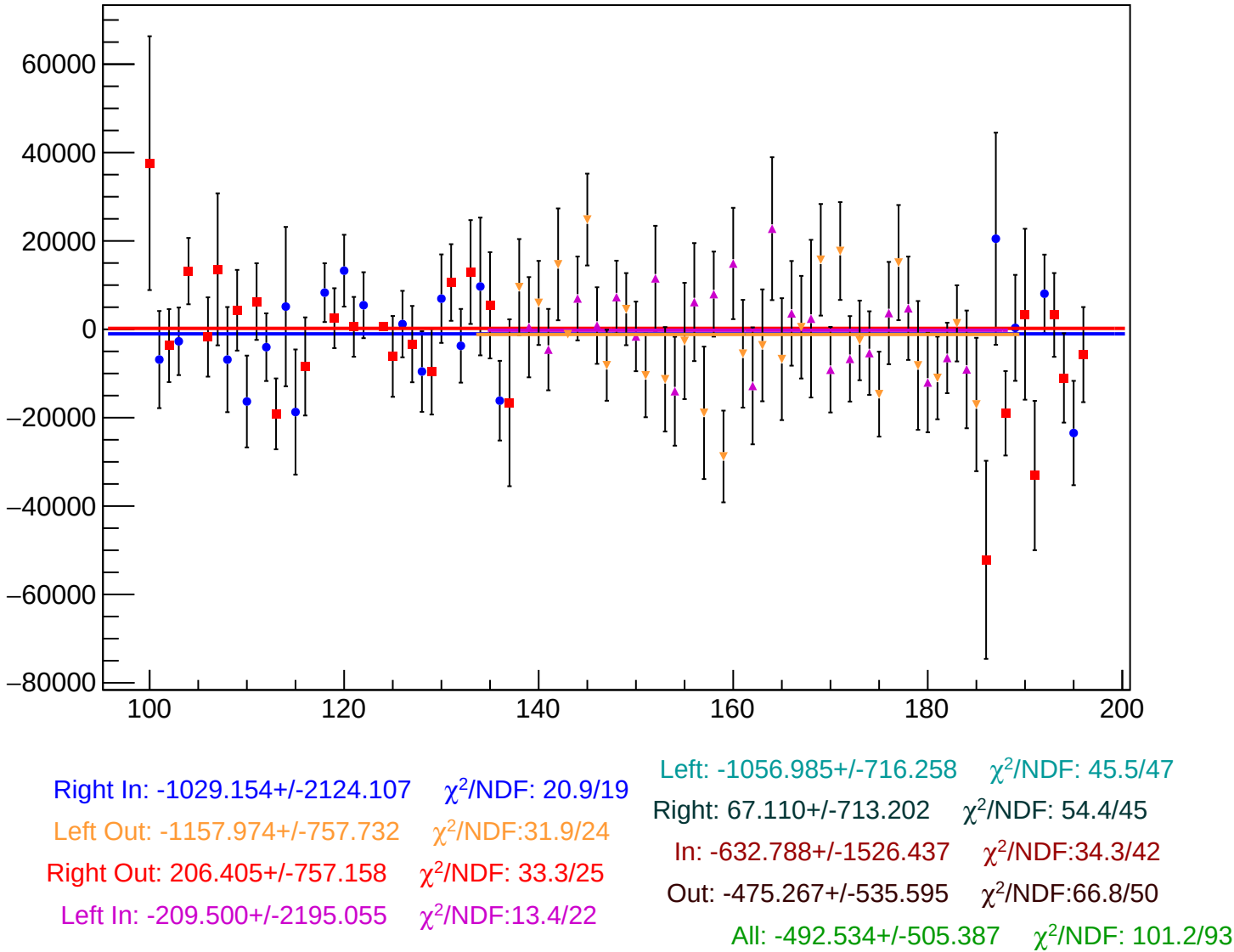
Left: 2416.083+/-0.281 $\chi^2$/NDF: 1381703.9/47

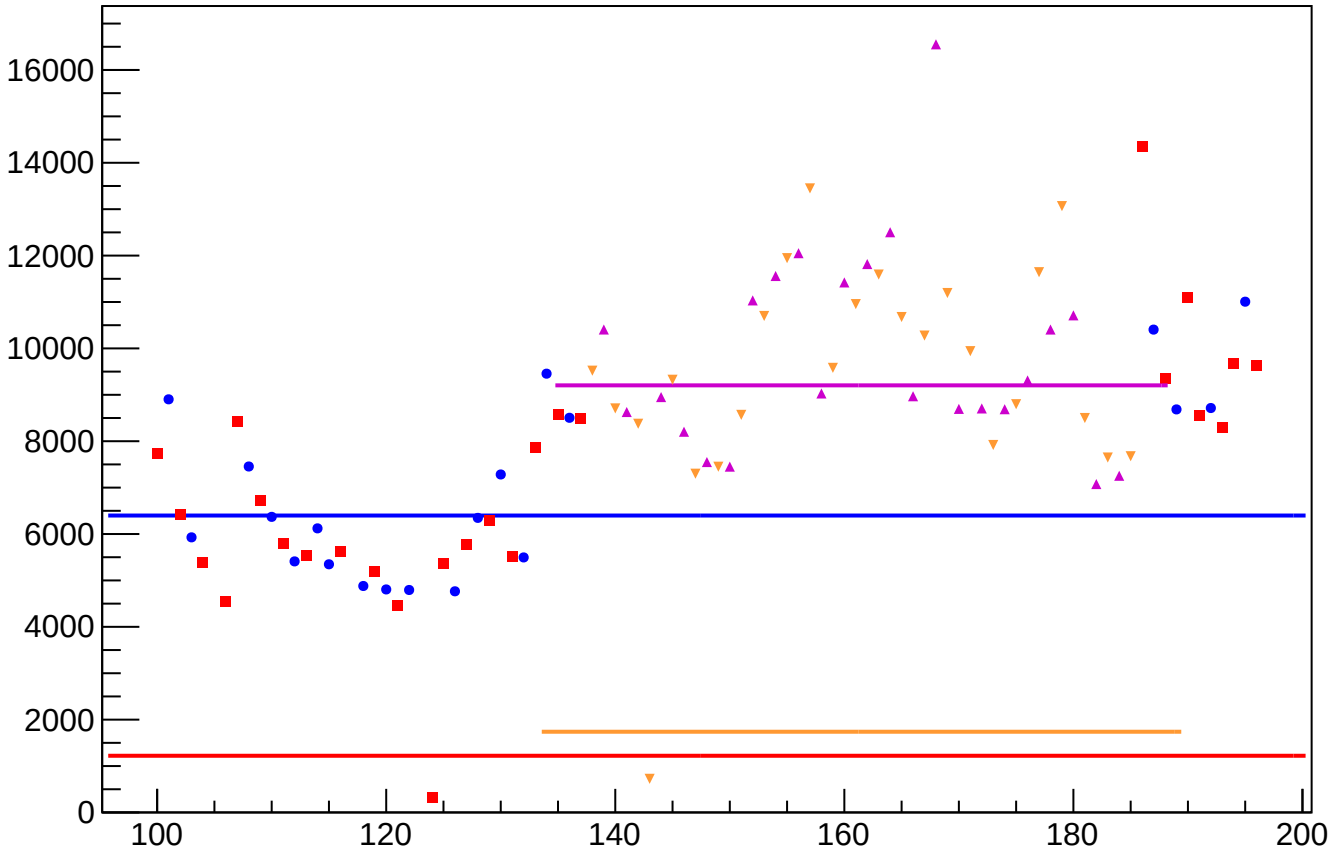
Right: 2104.006+/-0.323 $\chi^2$/NDF: 811469.4/45

In: 2276.935+/-0.306 $\chi^2$/NDF:1004611.3/42

Out: 2286.345+/-0.294 $\chi^2$/NDF:1719194.1/50

All: 2281.840+/-0.212 $\chi^2$/NDF: 2724297.0/93


asym_atl2_eigen_cor_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -1029.154+/-2124.107 χ²/NDF: 20.9/19
Left Out: -1157.974+/-757.732 χ²/NDF:31.9/24
Right Out: 206.405+/-757.158 χ²/NDF: 33.3/25
Left In: -209.500+/-2195.055 χ²/NDF:13.4/22
Left: -1056.985+/-716.258 χ²/NDF: 45.5/47
Right: 67.110+/-713.202 χ²/NDF: 54.4/45
In: -632.788+/-1526.437 χ²/NDF:34.3/42
Out: -475.267+/-535.595 χ²/NDF:66.8/50
All: -492.534+/-505.387 χ²/NDF: 101.2/93




Right In: 6398.517+/-1.502 $\chi^2$/NDF: 1334961.9/19

Left Out: 1739.457+/-0.536 $\chi^2$/NDF:27735092.1/24

Right Out: 1221.691+/-0.535 $\chi^2$/NDF: 18366692.3/25

Left In: 9203.744+/-1.552 $\chi^2$/NDF:1272079.0/22

Left: 2534.217+/-0.506 $\chi^2$/NDF: 49671551.4/47

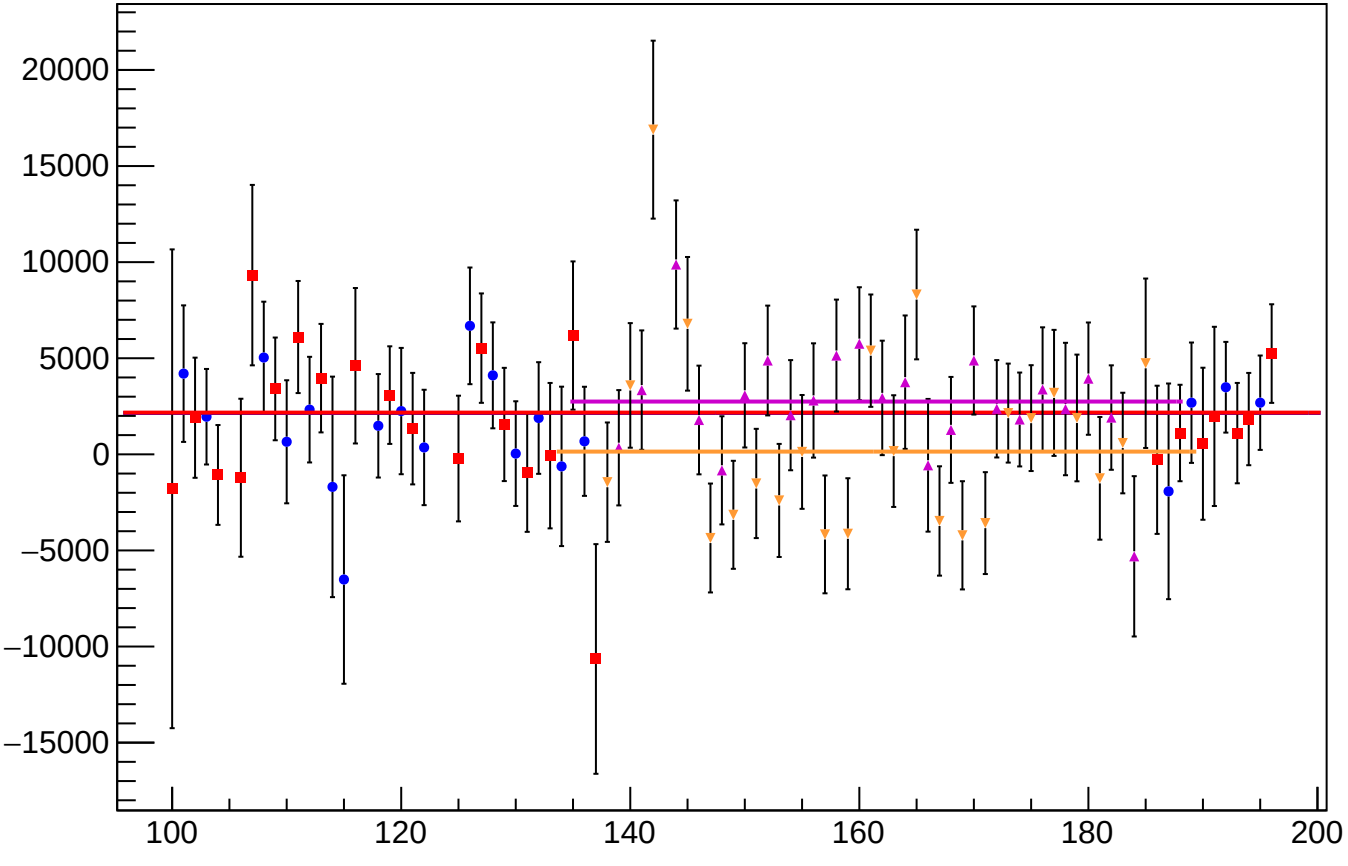
Right: 1805.318+/-0.504 $\chi^2$/NDF: 30242028.6/45

In: 7755.063+/-1.079 $\chi^2$/NDF:4293904.1/42

Out: 1480.378+/-0.379 $\chi^2$/NDF:46569052.2/50

All: 2168.209+/-0.357 $\chi^2$/NDF: 80953618.4/9

# dit_asym_atl2_mean vs Slug, Sign Corrected




Right In: 2151.397+/-681.929 $\chi^2$/NDF: 10.0/19

Left Out: 142.497+/-615.731 $\chi^2$/NDF:45.8/23

Right Out: 2170.545+/-633.848 $\chi^2$/NDF: 19.1/24

Left In: 2745.982+/-616.123 $\chi^2$/NDF:15.4/22

Left: 1443.410+/-435.526 $\chi^2$/NDF: 70.2/46

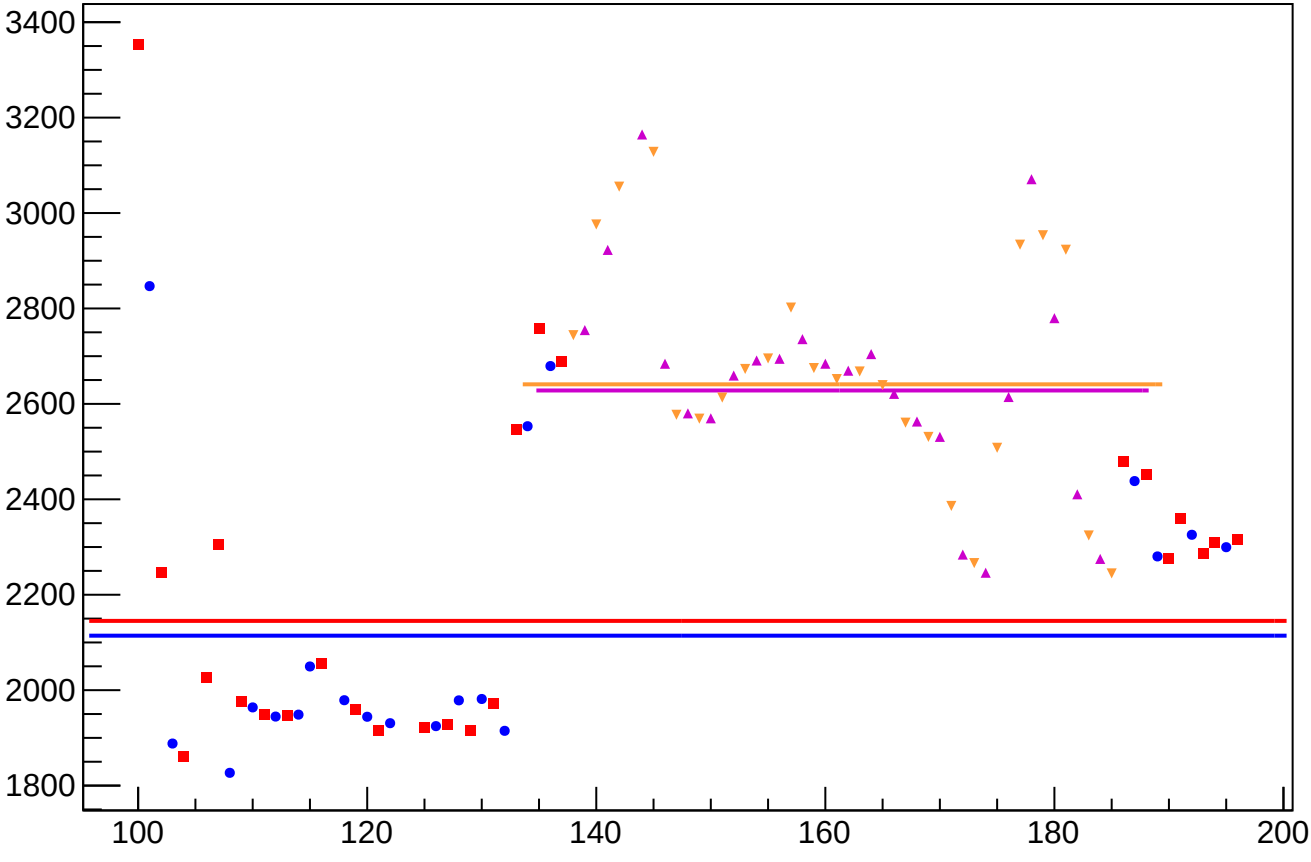
Right: 2161.670+/-464.266 $\chi^2$/NDF: 29.0/44

In: 2478.755+/-457.164 $\chi^2$/NDF:25.8/42

Out: 1127.124+/-441.653 $\chi^2$/NDF:70.1/48

All: 1779.622+/-317.638 $\chi^2$/NDF: 100.5/91

# dit_asym_atl2_rms vs Slug, Sign Corrected




Right In: 2114.215+/-0.482 $\chi^2$/NDF: 321237.9/19

Left Out: 2640.990+/-0.435 $\chi^2$/NDF:253402.6/23

Right Out: 2145.198+/-0.448 $\chi^2$/NDF: 304447.5/24

Left In: 2628.113+/-0.436 $\chi^2$/NDF:237507.6/22

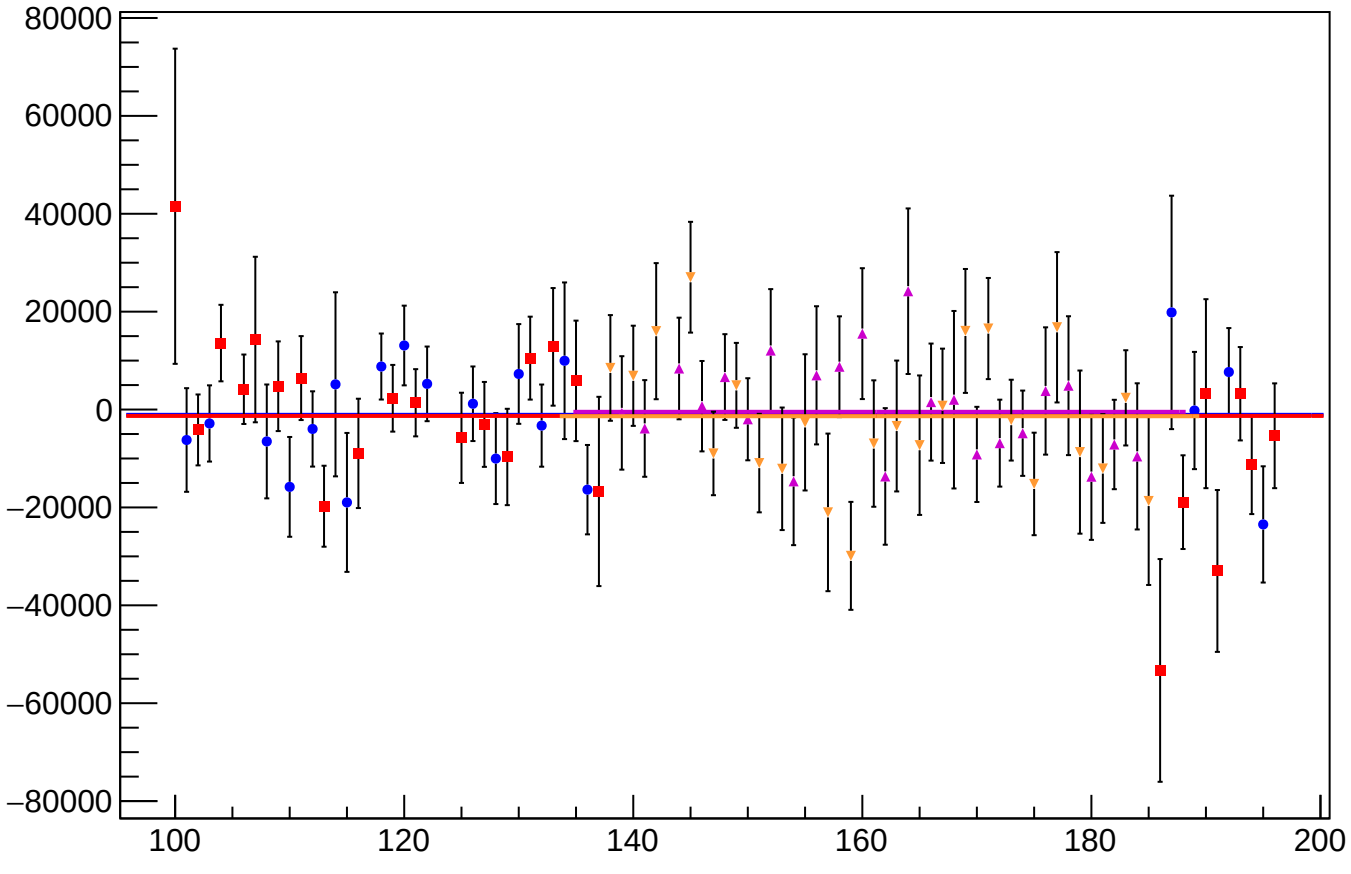
Left: 2634.556+/-0.308 $\chi^2$/NDF: 491347.2/46

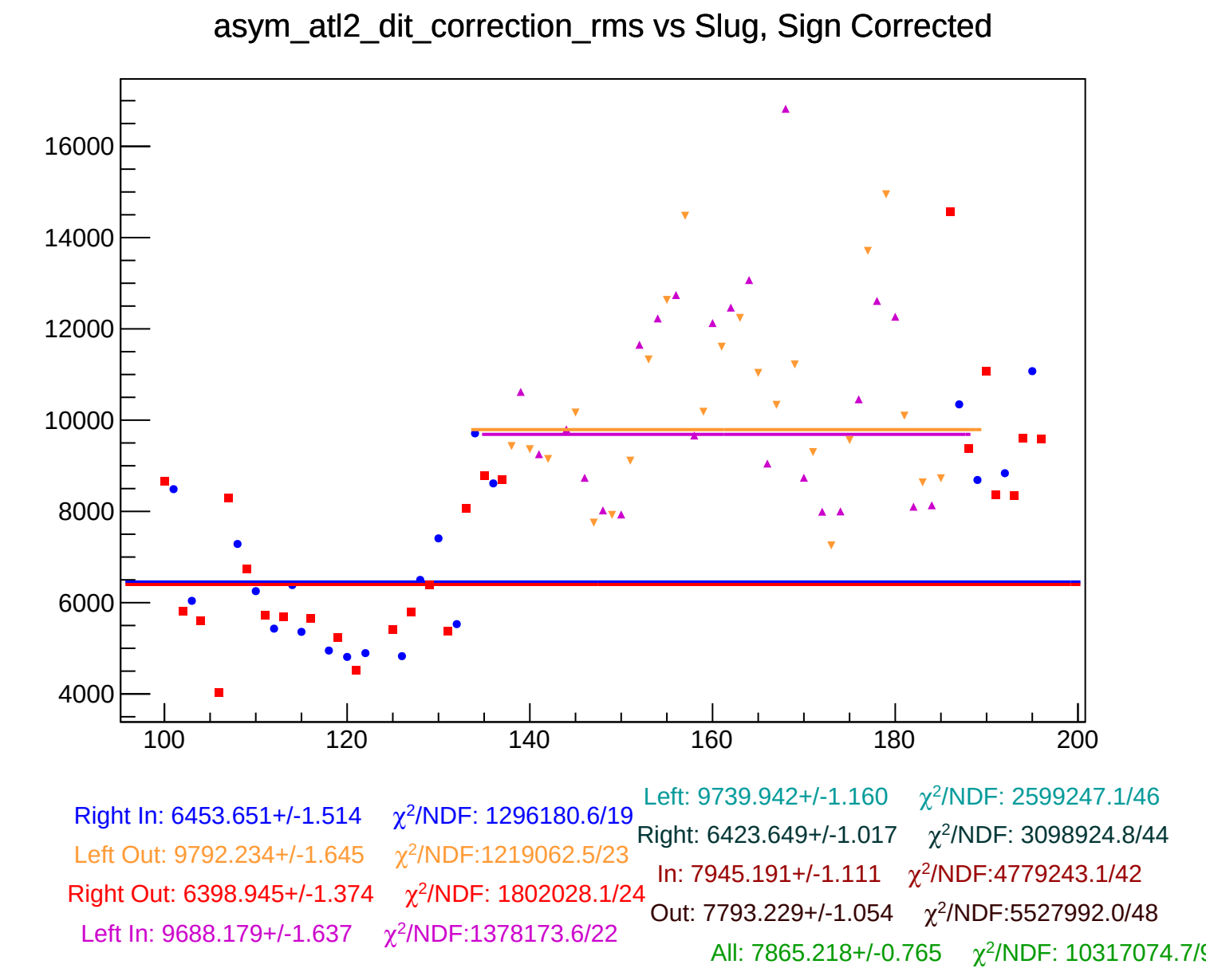
Right: 2130.853+/-0.328 $\chi^2$/NDF: 627902.5/44

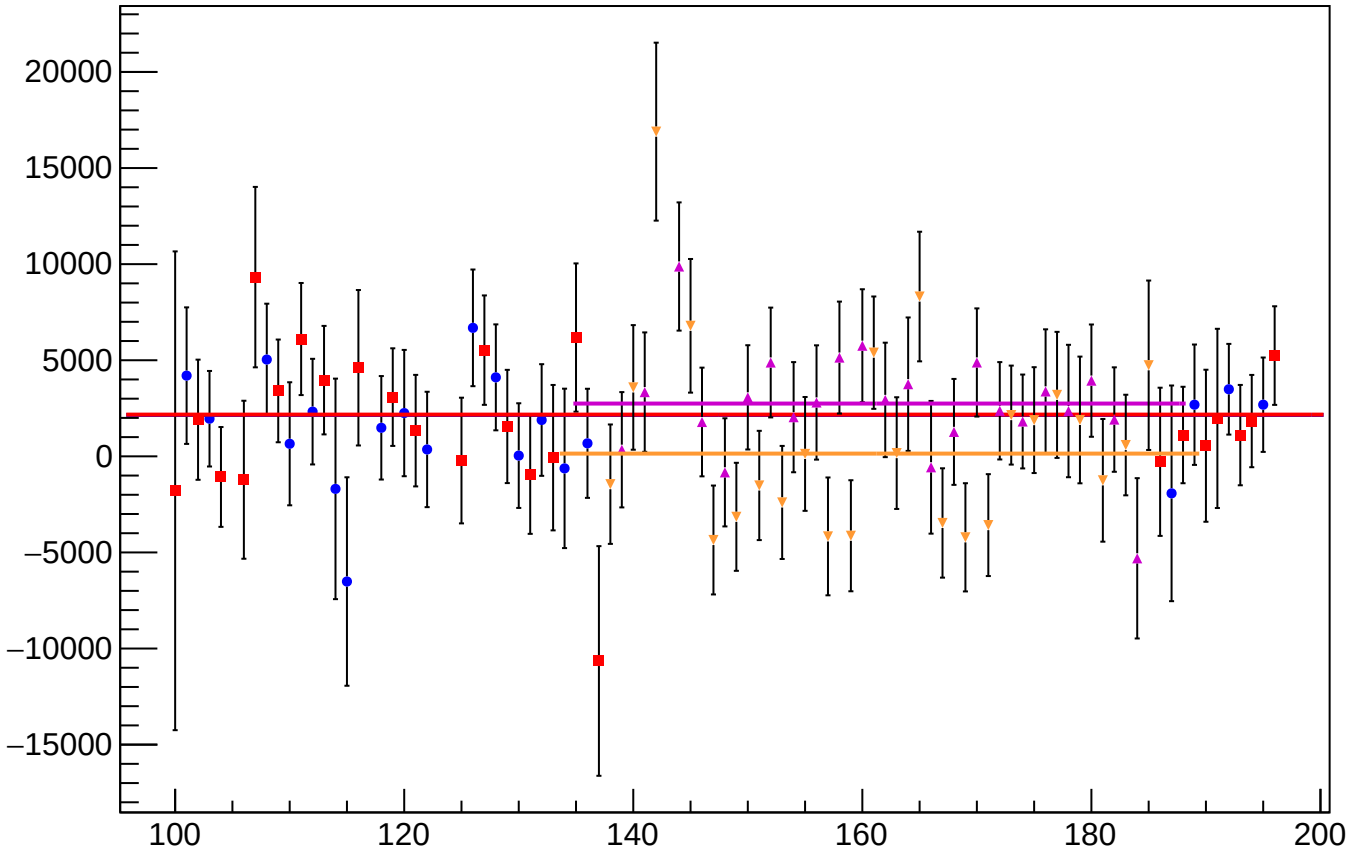
In: 2397.150+/-0.323 $\chi^2$/NDF:1184085.7/42

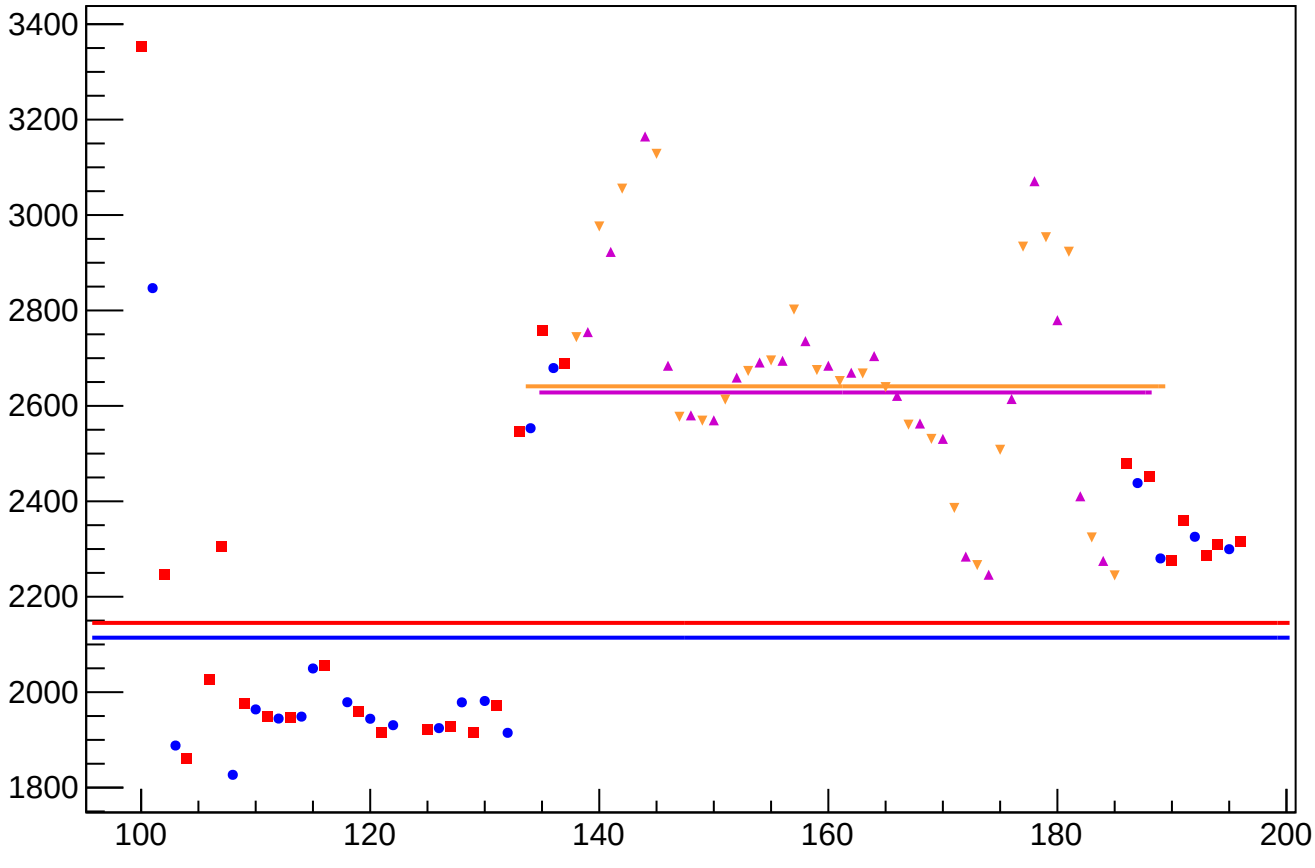
Out: 2400.028+/-0.312 $\chi^2$/NDF:1188076.2/48

All: 2398.639+/-0.225 $\chi^2$/NDF: 2372202.9/91


asym_atl2_dit_correction_mean vs Slug, Sign Corrected
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -1080.952+/-2141.032 χ²/NDF: 20.6/19
Left Out: -1366.840+/-2326.289 χ²/NDF:31.3/23
Right Out: -1304.038+/-1942.819 χ²/NDF: 33.1/24
Left In: -463.775+/-2314.478 χ²/NDF:13.1/22
Left: -913.009+/-1640.743 χ²/NDF: 44.4/46
Right: -1203.297+/-1438.764 χ²/NDF: 53.7/44
In: -796.353+/-1571.683 χ²/NDF:33.7/42
Out: -1329.843+/-1491.176 χ²/NDF:64.4/48
All: -1077.111+/-1081.762 χ²/NDF: 98.2/91


asym_atl2_dit_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
120
140
160
180
200
Right In: 6453.651+/-1.514 χ²/NDF: 1296180.6/19
Left Out: 9792.234+/-1.645 χ²/NDF:1219062.5/23
Right Out: 6398.945+/-1.374 χ²/NDF: 1802028.1/24
Left In: 9688.179+/-1.637 χ²/NDF:1378173.6/22
Left: 9739.942+/-1.160 χ²/NDF: 2599247.1/46
Right: 6423.649+/-1.017 χ²/NDF: 3098924.8/44
In: 7945.191+/-1.111 χ²/NDF:4779243.1/42
Out: 7793.229+/-1.054 χ²/NDF:5527992.0/48
All: 7865.218+/-0.765 χ²/NDF: 10317074.7/9


eigen_dit_asym_atl2_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: 2151.395+/-681.929 χ²/NDF: 10.0/19
Left Out: 142.487+/-615.732 χ²/NDF:45.8/23
Right Out: 2170.549+/-633.848 χ²/NDF: 19.1/24
Left In: 2745.980+/-616.124 χ²/NDF:15.4/22
Left: 1443.405+/-435.527 χ²/NDF: 70.2/46
Right: 2161.671+/-464.266 χ²/NDF: 29.0/44
In: 2478.753+/-457.164 χ²/NDF:25.8/42
Out: 1127.122+/-441.654 χ²/NDF:70.1/48
All: 1779.620+/-317.638 χ²/NDF: 100.5/91




Right In: 2114.215+/-0.482 $\chi^2$/NDF: 321237.7/19

Left Out: 2640.993+/-0.435 $\chi^2$/NDF:253411.8/23

Right Out: 2145.198+/-0.448 $\chi^2$/NDF: 304447.6/24

Left In: 2628.116+/-0.436 $\chi^2$/NDF:237516.8/22

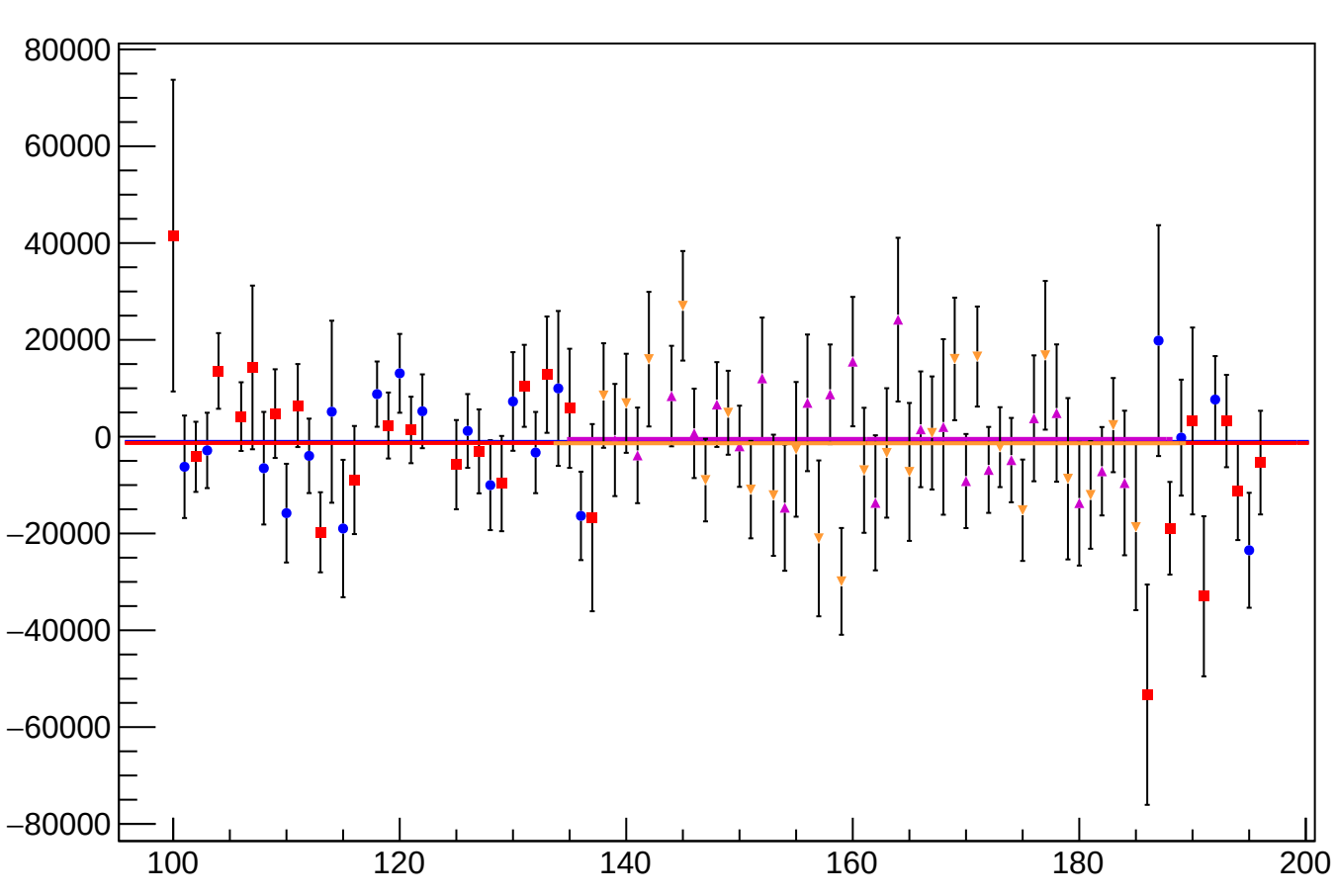
Left: 2634.558+/-0.308 $\chi^2$/NDF: 491365.7/46

Right: 2130.853+/-0.328 $\chi^2$/NDF: 627902.4/44

In: 2397.151+/-0.323 $\chi^2$/NDF:1184099.5/42

Out: 2400.029+/-0.312 $\chi^2$/NDF:1188091.4/48

All: 2398.640+/-0.225 $\chi^2$/NDF: 2372231.9/91




Right In: -1080.940+/-2141.027 $\chi^2$/NDF: 20.6/19

Left Out: -1366.849+/-2326.293 $\chi^2$/NDF:31.3/23

Right Out: -1304.027+/-1942.815 $\chi^2$/NDF: 33.1/24

Left In: -463.777+/-2314.482 $\chi^2$/NDF:13.1/22

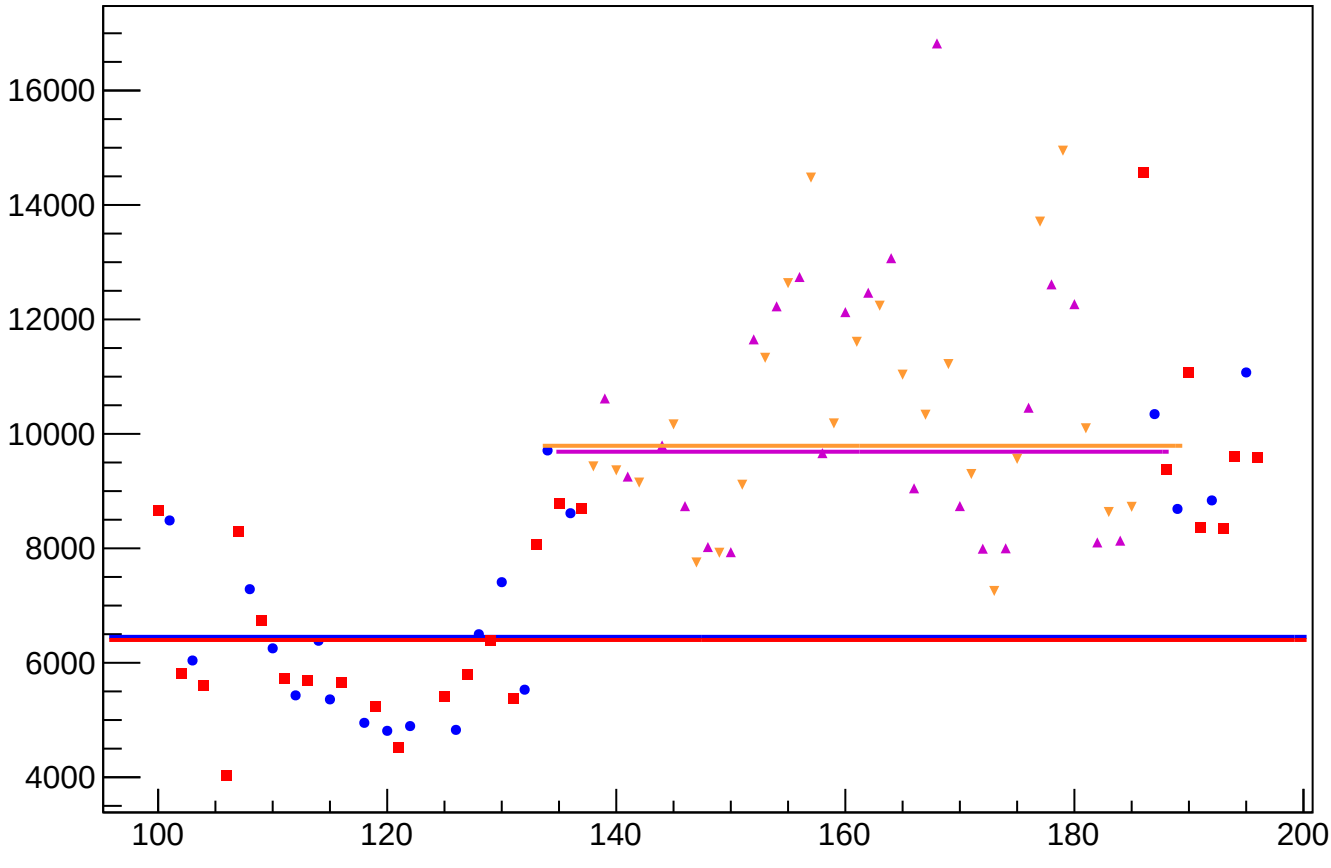
Left: -913.015+/-1640.746 $\chi^2$/NDF: 44.4/46

Right: -1203.285+/-1438.761 $\chi^2$/NDF: 53.7/44

In: -796.348+/-1571.682 $\chi^2$/NDF:33.7/42

Out: -1329.840+/-1491.175 $\chi^2$/NDF:64.4/48

All: -1077.107+/-1081.762 $\chi^2$/NDF: 98.2/91




Right In: 6453.633+/-1.514 $\chi^2$/NDF: 1296201.3/19

Left Out: 9792.251+/-1.645 $\chi^2$/NDF:1219062.8/23

Right Out: 6398.930+/-1.374 $\chi^2$/NDF: 1802047.0/24

Left In: 9688.194+/-1.637 $\chi^2$/NDF:1378175.1/22

Left: 9739.958+/-1.160 $\chi^2$/NDF: 2599248.9/46

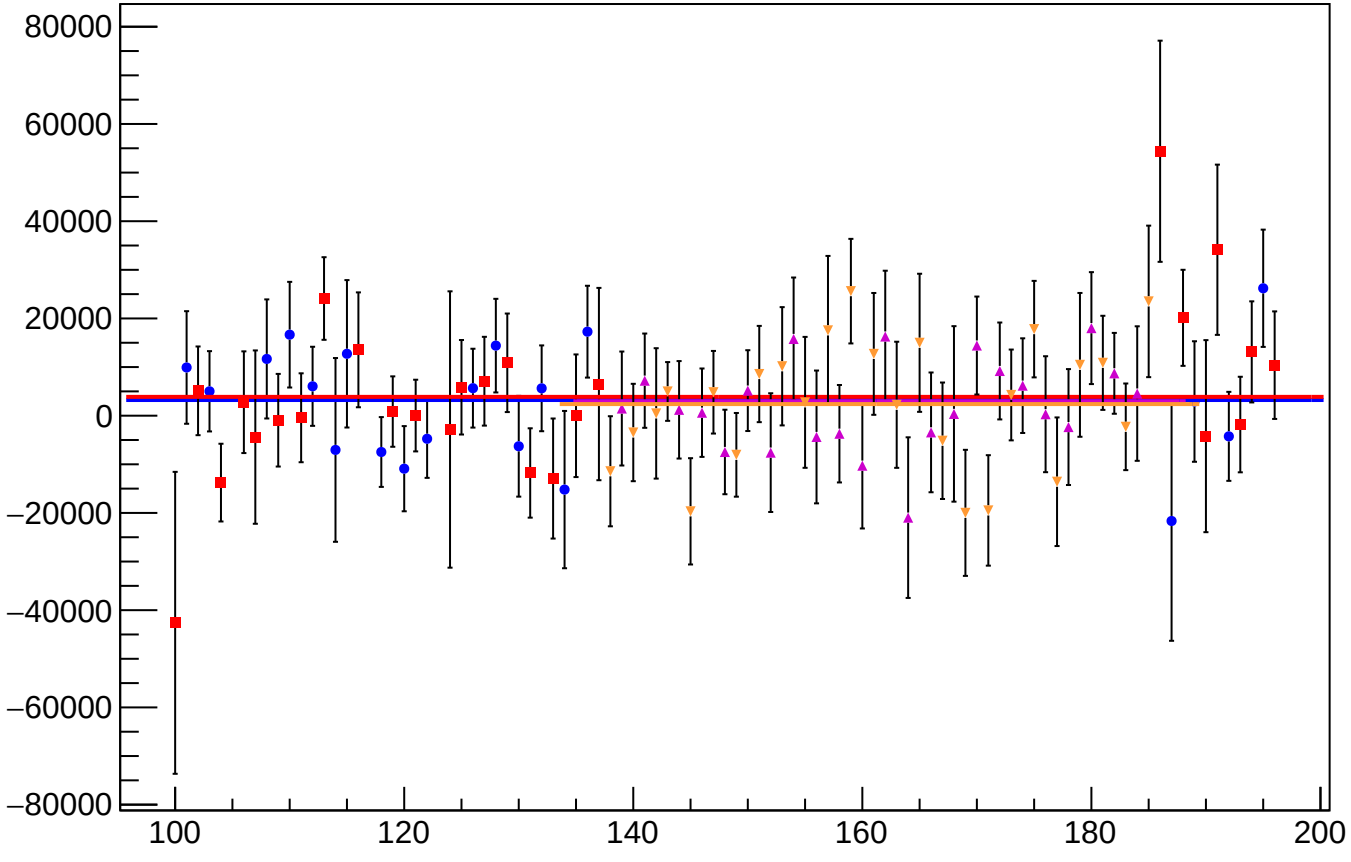
Right: 6423.632+/-1.017 $\chi^2$/NDF: 3098964.3/44

In: 7945.181+/-1.111 $\chi^2$/NDF:4779310.8/42

Out: 7793.220+/-1.054 $\chi^2$/NDF:5528058.6/48

All: 7865.209+/-0.765 $\chi^2$/NDF: 10317208.9/9

# asym_atl2_mean vs Slug, Sign Corrected




Right In: 3221.935+/-2249.478 $\chi^2$/NDF: 20.2/19

Left Out: 2387.857+/-2136.530 $\chi^2$/NDF:29.7/24

Right Out: 3871.006+/-2089.391 $\chi^2$/NDF: 32.5/25

Left In: 2963.537+/-2278.927 $\chi^2$/NDF:13.0/22

Left: 2657.151+/-1558.666 $\chi^2$/NDF: 42.8/47

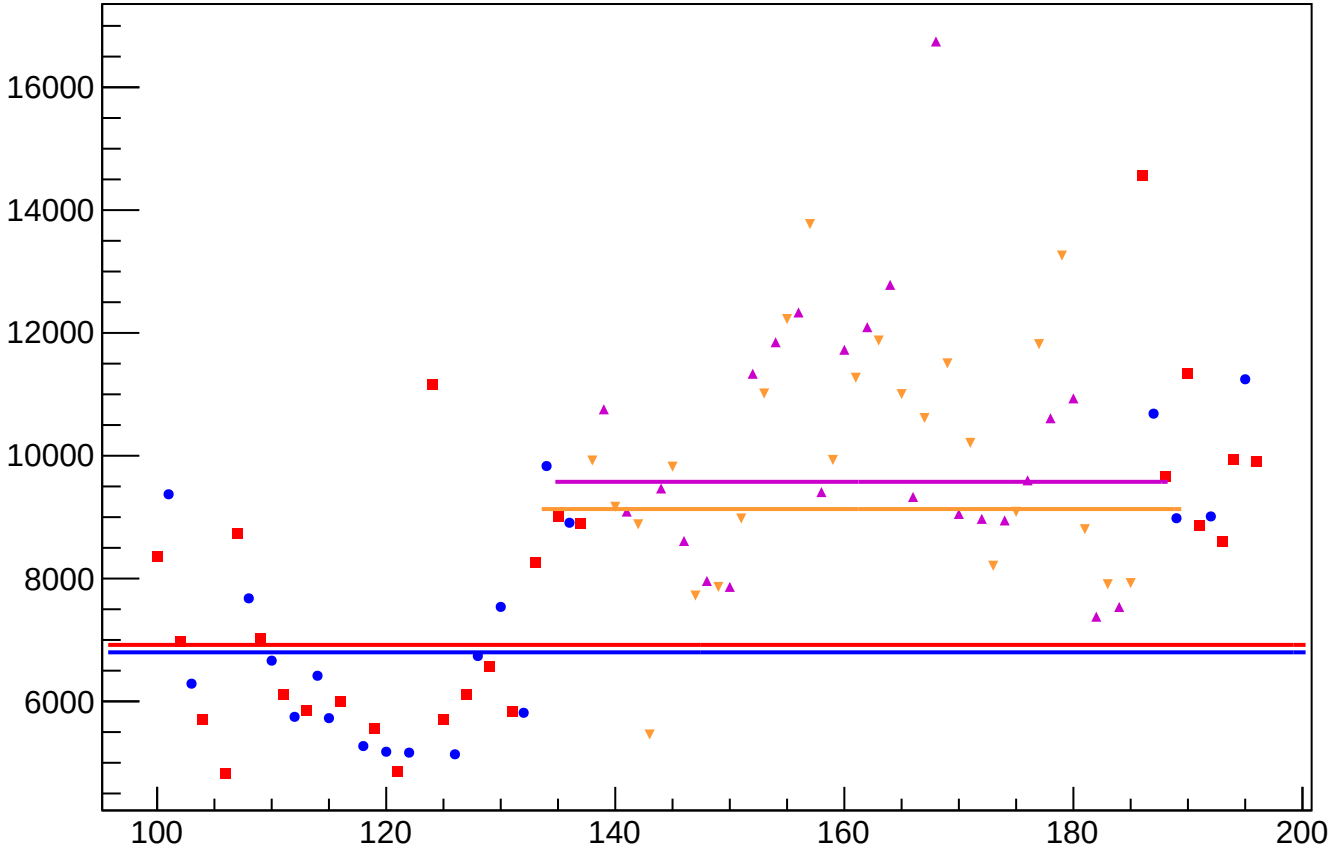
Right: 3570.386+/-1530.892 $\chi^2$/NDF: 52.7/45

In: 3094.416+/-1600.931 $\chi^2$/NDF:33.2/42

Out: 3145.974+/-1493.810 $\chi^2$/NDF:62.4/50

All: 3121.977+/-1092.191 $\chi^2$/NDF: 95.6/93

# asym_atl2_rms vs Slug, Sign Corrected




Right In: 6798.603+/-1.591 $\chi^2$/NDF: 1192543.2/19

Left Out: 9131.714+/-1.511 $\chi^2$/NDF:1811661.2/24

Right Out: 6919.769+/-1.477 $\chi^2$/NDF: 1536772.3/25

Left In: 9575.233+/-1.611 $\chi^2$/NDF:1153802.3/22

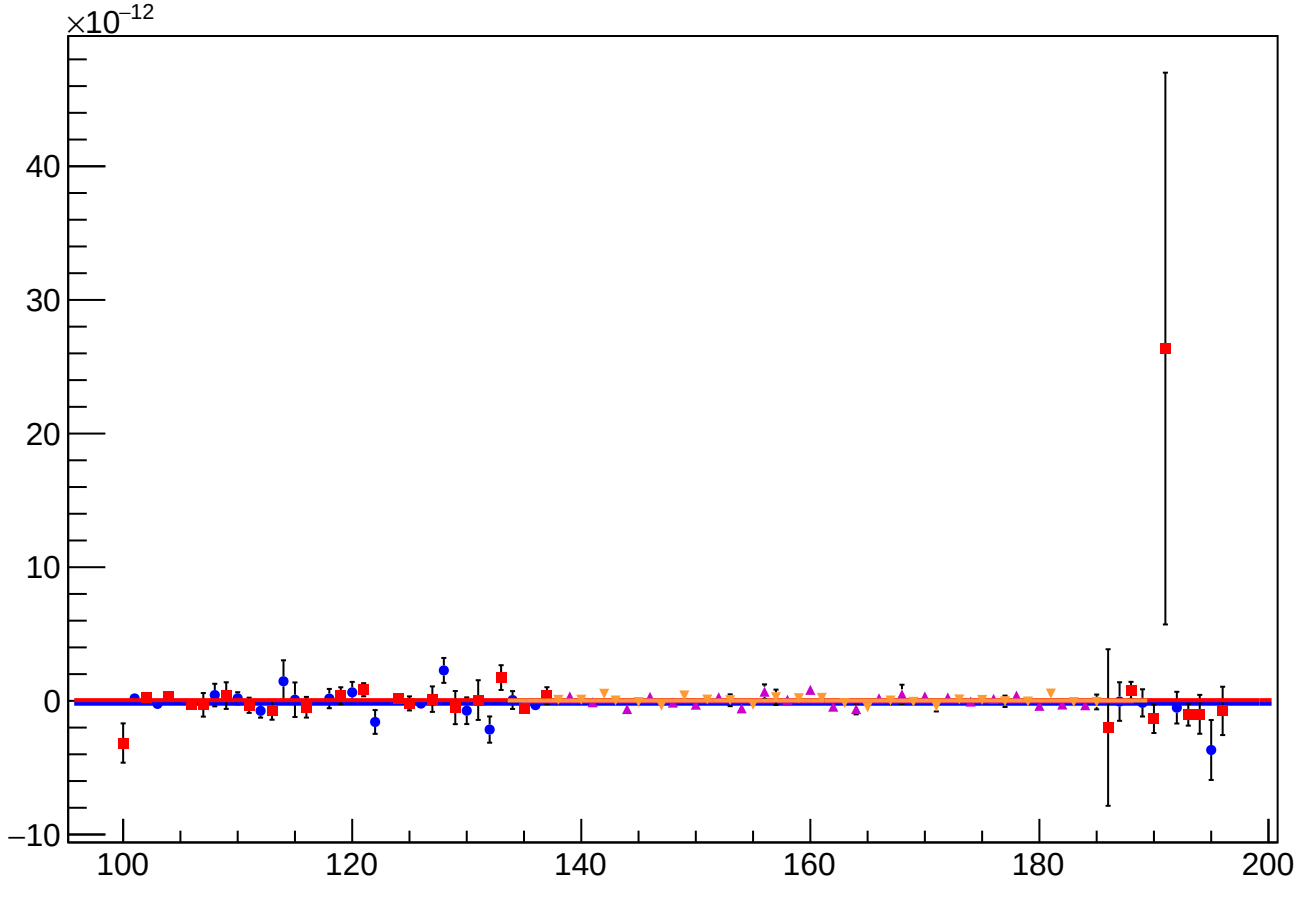
Left: 9339.185+/-1.102 $\chi^2$/NDF: 3005779.9/47

Right: 6863.651+/-1.083 $\chi^2$/NDF: 2732430.7/45

In: 8168.860+/-1.132 $\chi^2$/NDF:3850137.9/42

Out: 8001.069+/-1.056 $\chi^2$/NDF:4444186.8/50

All: 8079.163+/-0.772 $\chi^2$/NDF: 8306069.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 28.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:36.8/22

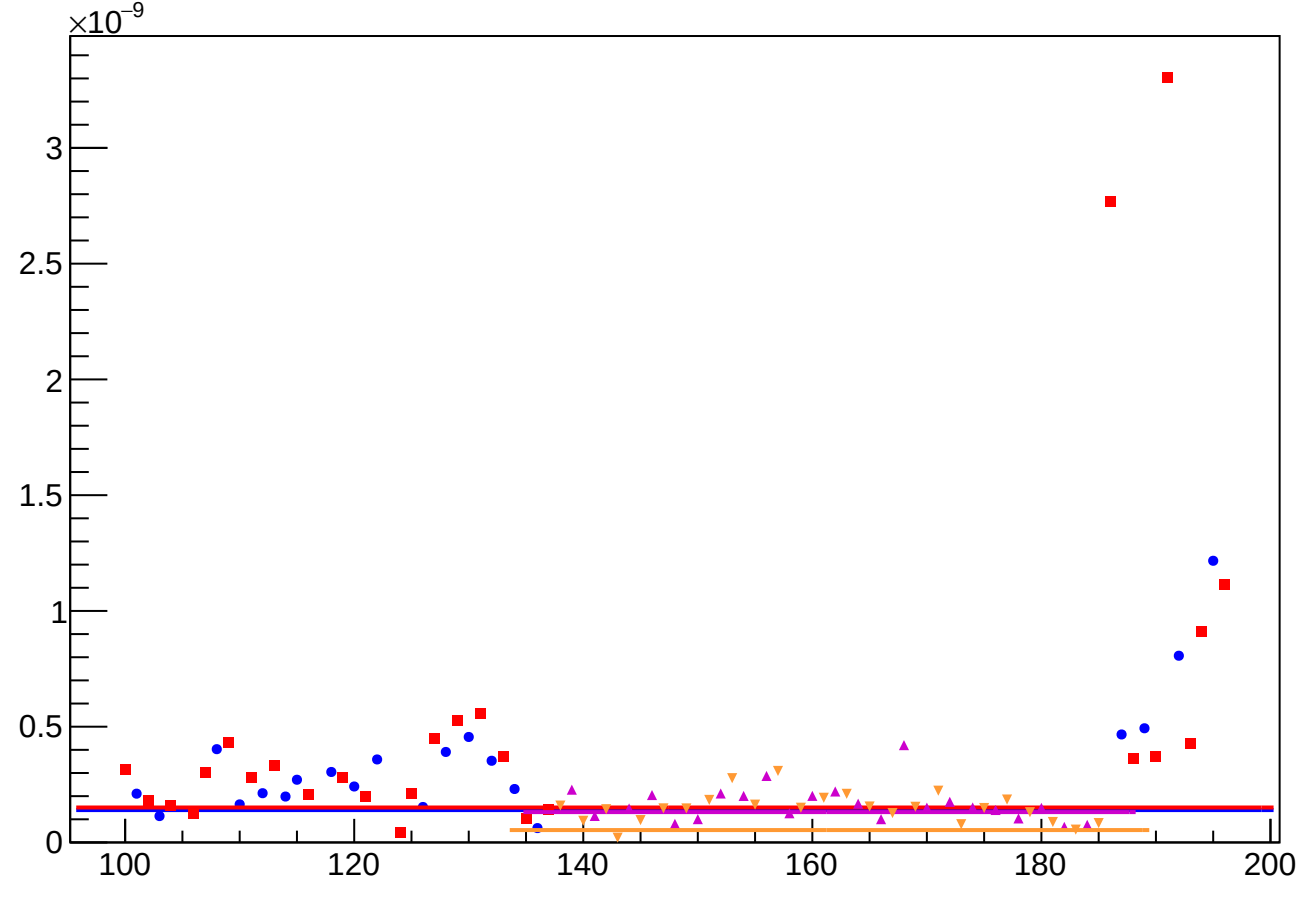
Left: 0.000+/-0.000 $\chi^2$/NDF: 56.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 55.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:62.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:46.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 113.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3182447.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:7244510.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4463178.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1904207.4/22

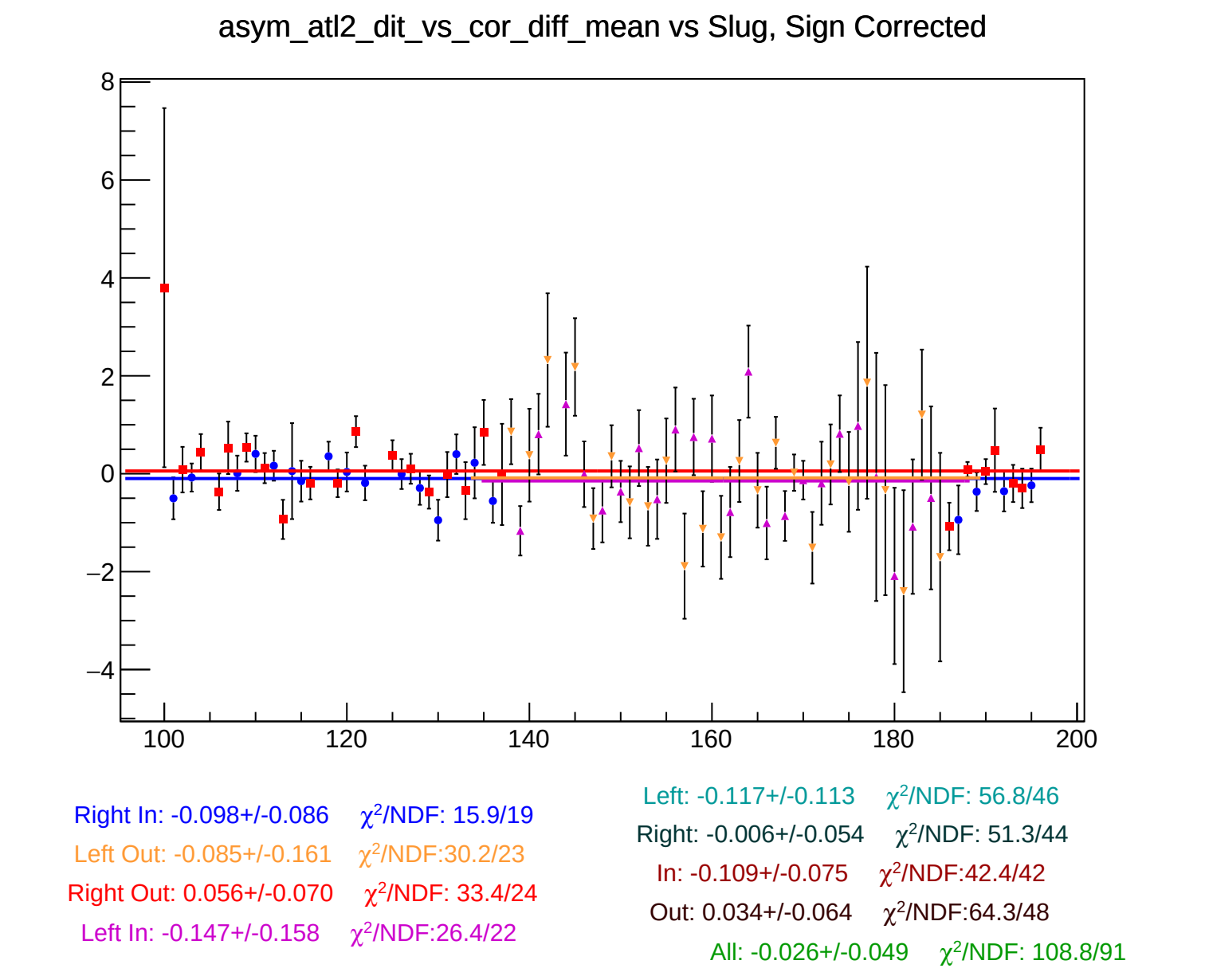
Left: 0.000+/-0.000 $\chi^2$/NDF: 12255967.6/47

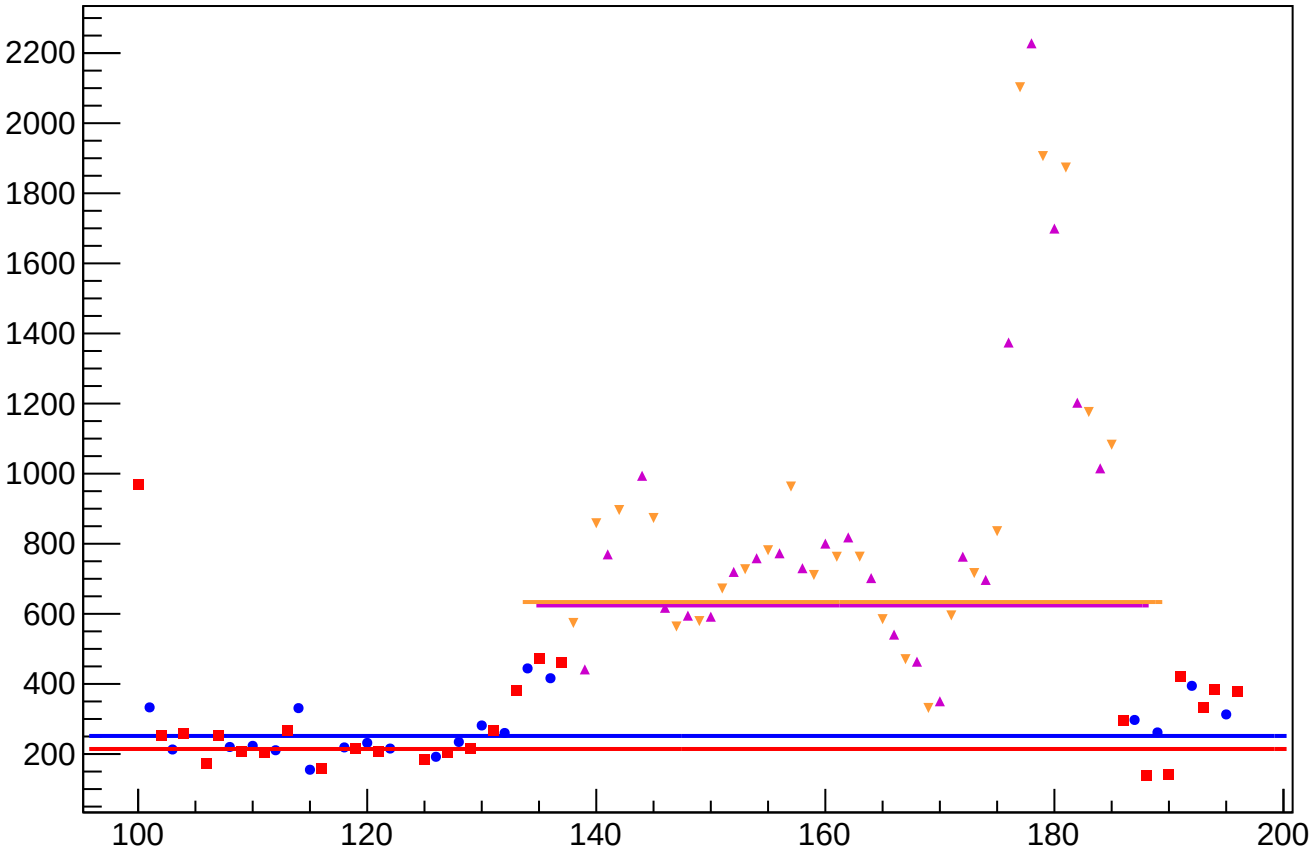
Right: 0.000+/-0.000 $\chi^2$/NDF: 7659846.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:5099483.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13690814.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 22099744.8/93


asym_atl2_dit_vs_cor_diff_mean vs Slug, Sign Corrected
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: -0.098+/-0.086 χ²/NDF: 15.9/19
Left Out: -0.085+/-0.161 χ²/NDF:30.2/23
Right Out: 0.056+/-0.070 χ²/NDF: 33.4/24
Left In: -0.147+/-0.158 χ²/NDF:26.4/22
Left: -0.117+/-0.113 χ²/NDF: 56.8/46
Right: -0.006+/-0.054 χ²/NDF: 51.3/44
In: -0.109+/-0.075 χ²/NDF:42.4/42
Out: 0.034+/-0.064 χ²/NDF:64.3/48
All: -0.026+/-0.049 χ²/NDF: 108.8/91




Right In: 251.582+/-0.061 $\chi^2$/NDF: 1163606.9/19

Left Out: 633.674+/-0.114 $\chi^2$/NDF:4994105.8/23

Right Out: 214.391+/-0.049 $\chi^2$/NDF: 2541428.3/24

Left In: 623.916+/-0.112 $\chi^2$/NDF:4541431.8/22

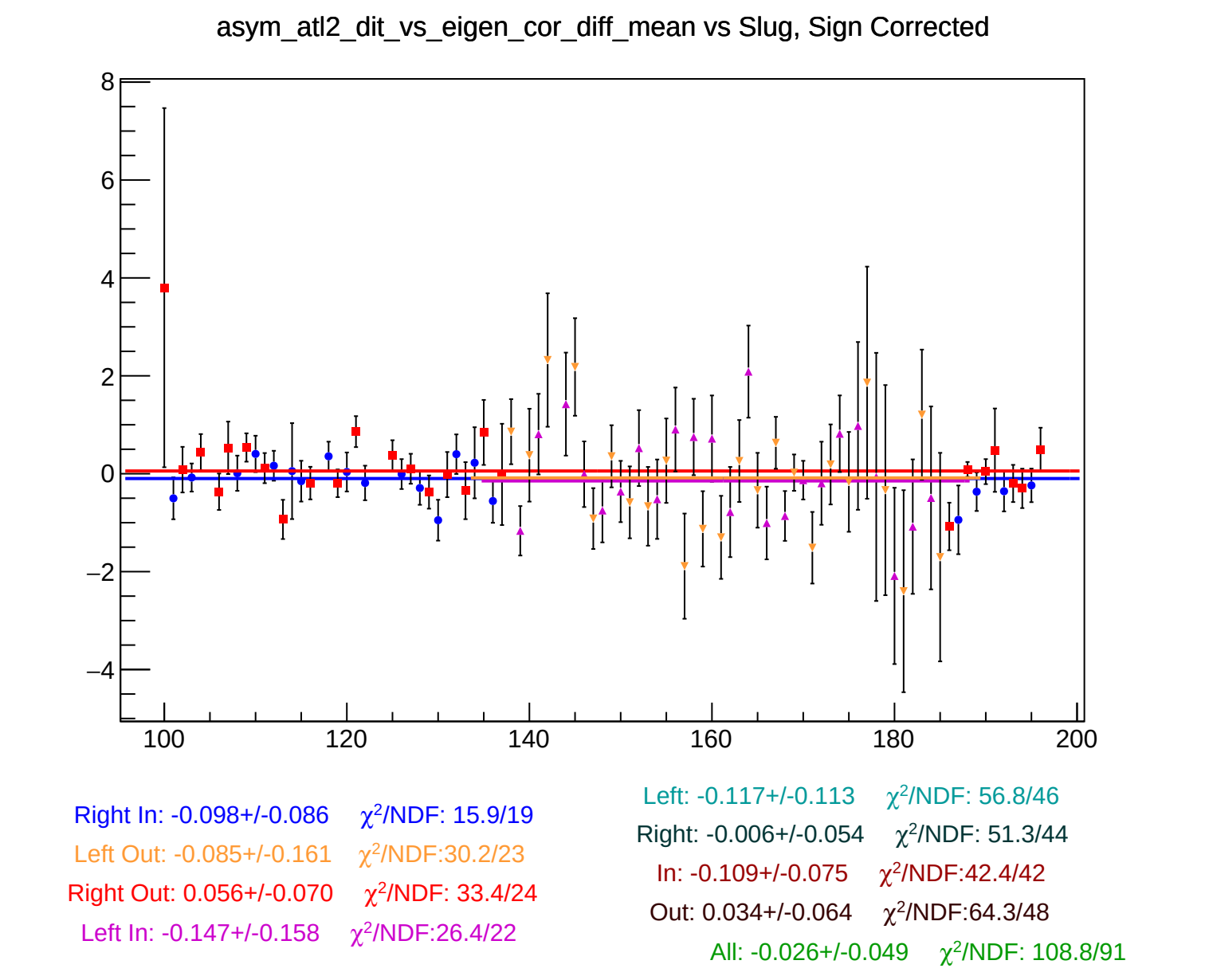
Left: 628.697+/-0.080 $\chi^2$/NDF: 9539265.1/46

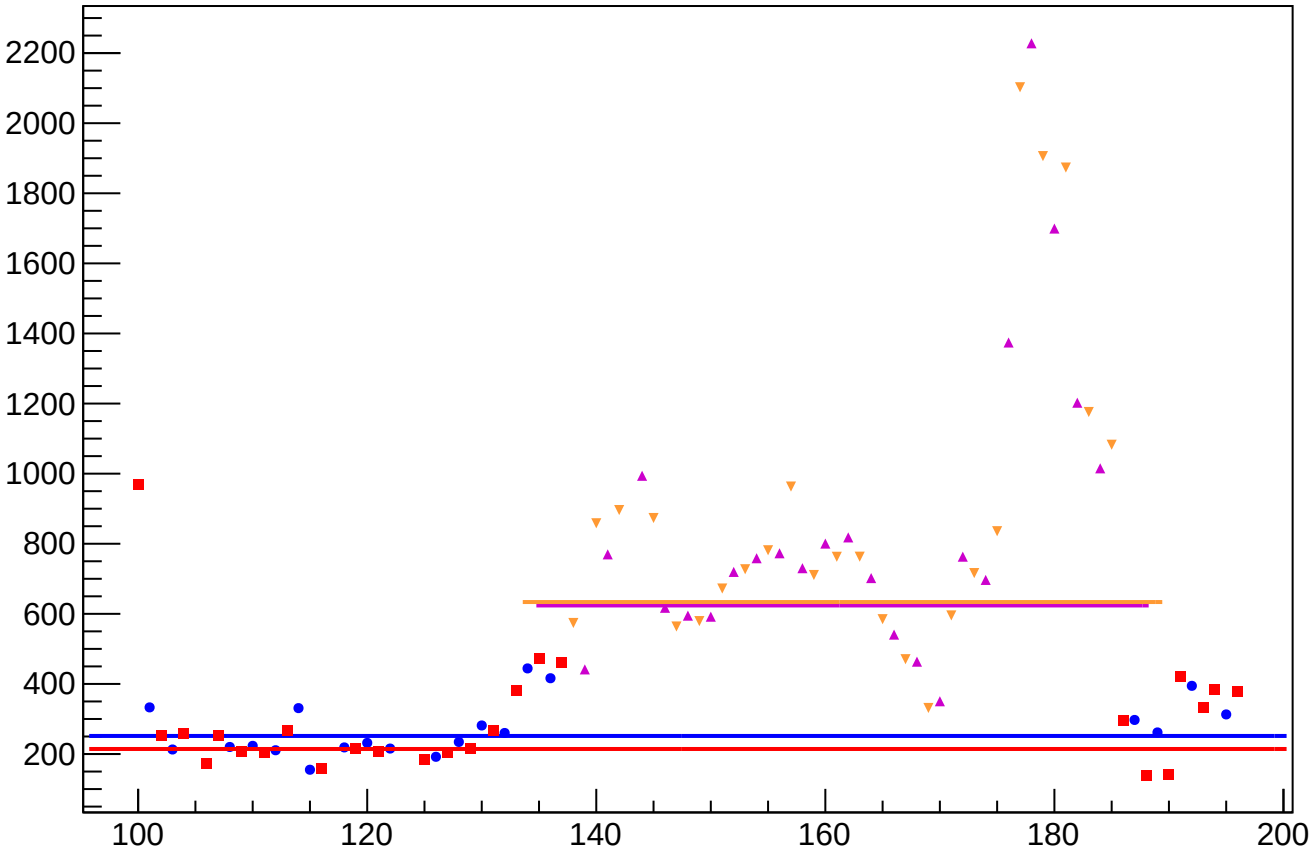
Right: 229.224+/-0.038 $\chi^2$/NDF: 3932130.5/44

In: 335.854+/-0.053 $\chi^2$/NDF:14274871.3/42

Out: 280.271+/-0.045 $\chi^2$/NDF:18907362.1/48

All: 303.590+/-0.034 $\chi^2$/NDF: 33815311.1/91


asym_atl2_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: -0.098+/-0.086 χ²/NDF: 15.9/19
Left Out: -0.085+/-0.161 χ²/NDF:30.2/23
Right Out: 0.056+/-0.070 χ²/NDF: 33.4/24
Left In: -0.147+/-0.158 χ²/NDF:26.4/22
Left: -0.117+/-0.113 χ²/NDF: 56.8/46
Right: -0.006+/-0.054 χ²/NDF: 51.3/44
In: -0.109+/-0.075 χ²/NDF:42.4/42
Out: 0.034+/-0.064 χ²/NDF:64.3/48
All: -0.026+/-0.049 χ²/NDF: 108.8/91




Right In: 251.582+/-0.061 $\chi^2$/NDF: 1163606.9/19

Left Out: 633.674+/-0.114 $\chi^2$/NDF:4994105.8/23

Right Out: 214.391+/-0.049 $\chi^2$/NDF: 2541428.3/24

Left In: 623.916+/-0.112 $\chi^2$/NDF:4541431.8/22

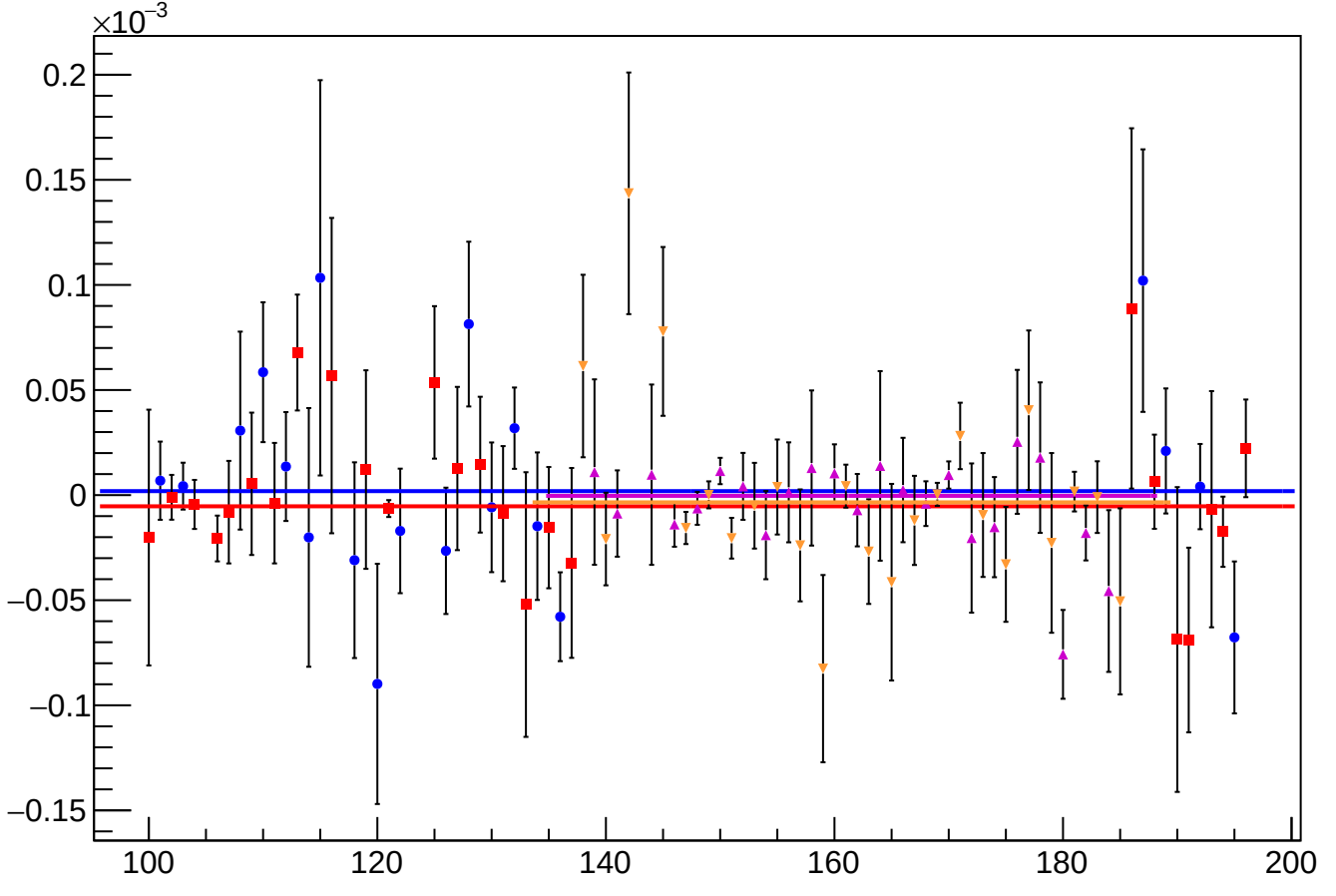
Left: 628.697+/-0.080 $\chi^2$/NDF: 9539265.1/46

Right: 229.224+/-0.038 $\chi^2$/NDF: 3932130.5/44

In: 335.854+/-0.053 $\chi^2$/NDF:14274871.3/42

Out: 280.271+/-0.045 $\chi^2$/NDF:18907362.1/48

All: 303.590+/-0.034 $\chi^2$/NDF: 33815311.1/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 30.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.3/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.8/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.9/22

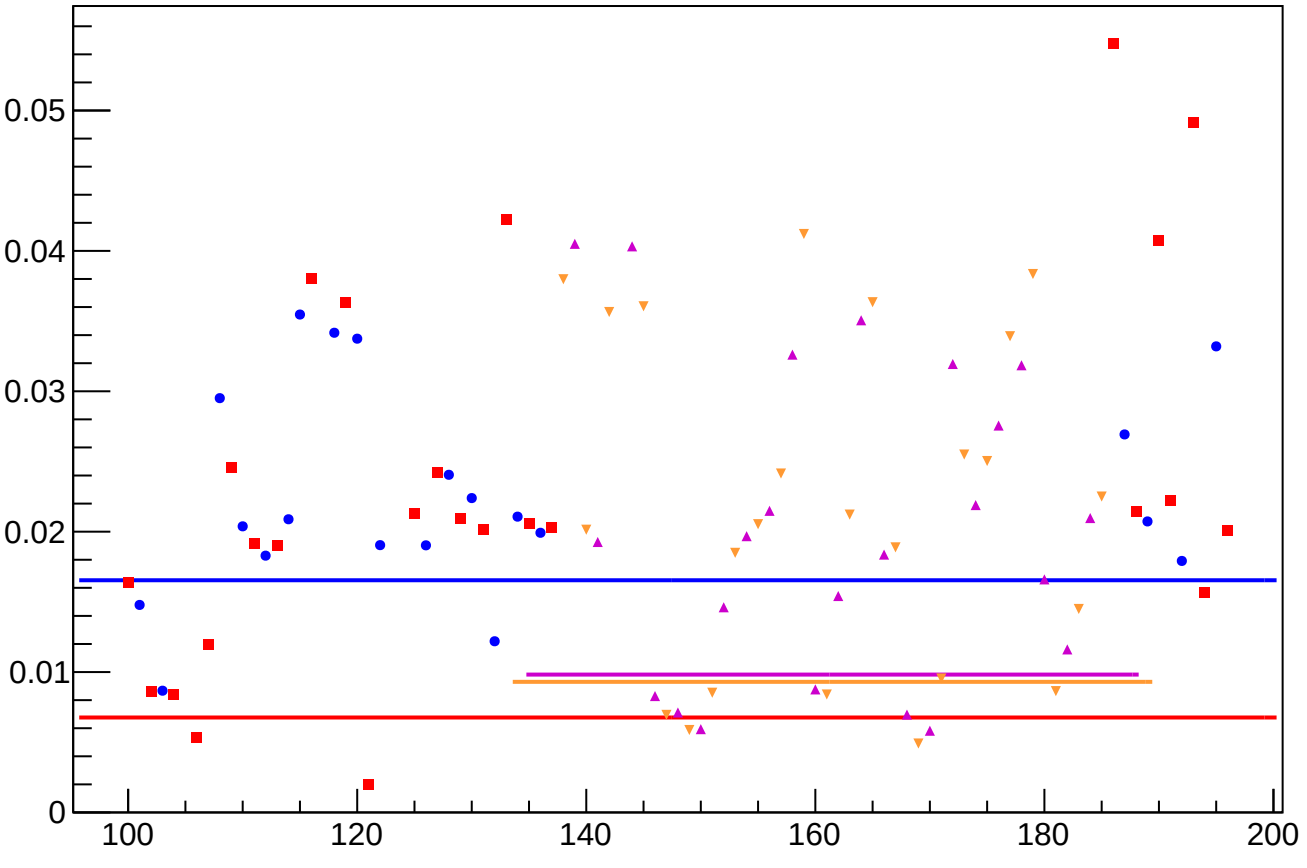
Left: -0.000+/-0.000 $\chi^2$/NDF: 62.8/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:58.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:55.3/48

All: -0.000+/-0.000 $\chi^2$/NDF: 115.8/91




Right In: 0.017+/-0.000 $\chi^2$/NDF: 2648688.2/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:12224529.3/23

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 12781441.9/24

Left In: 0.010+/-0.000 $\chi^2$/NDF:10307261.6/22

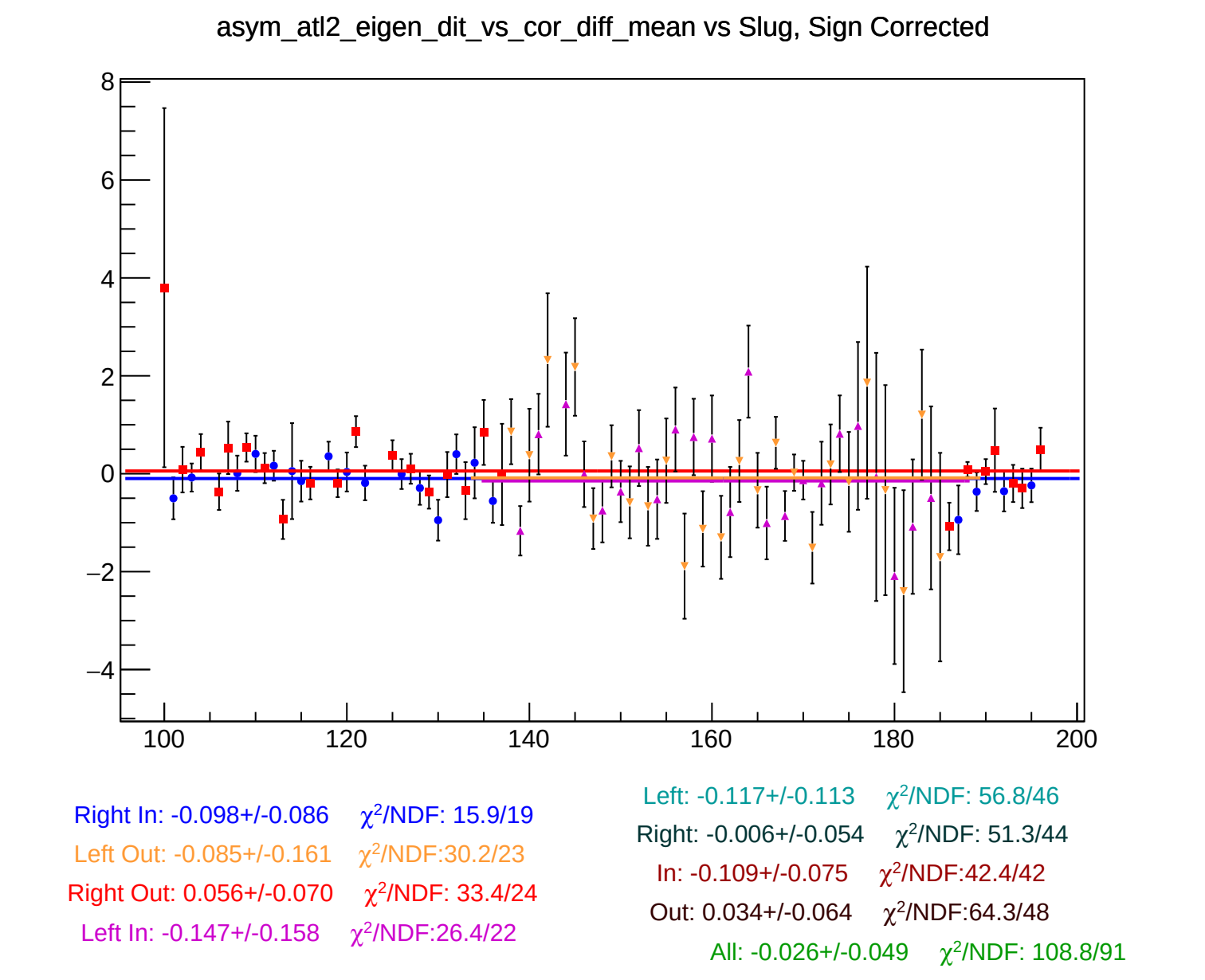
Left: 0.010+/-0.000 $\chi^2$/NDF: 22565208.8/46

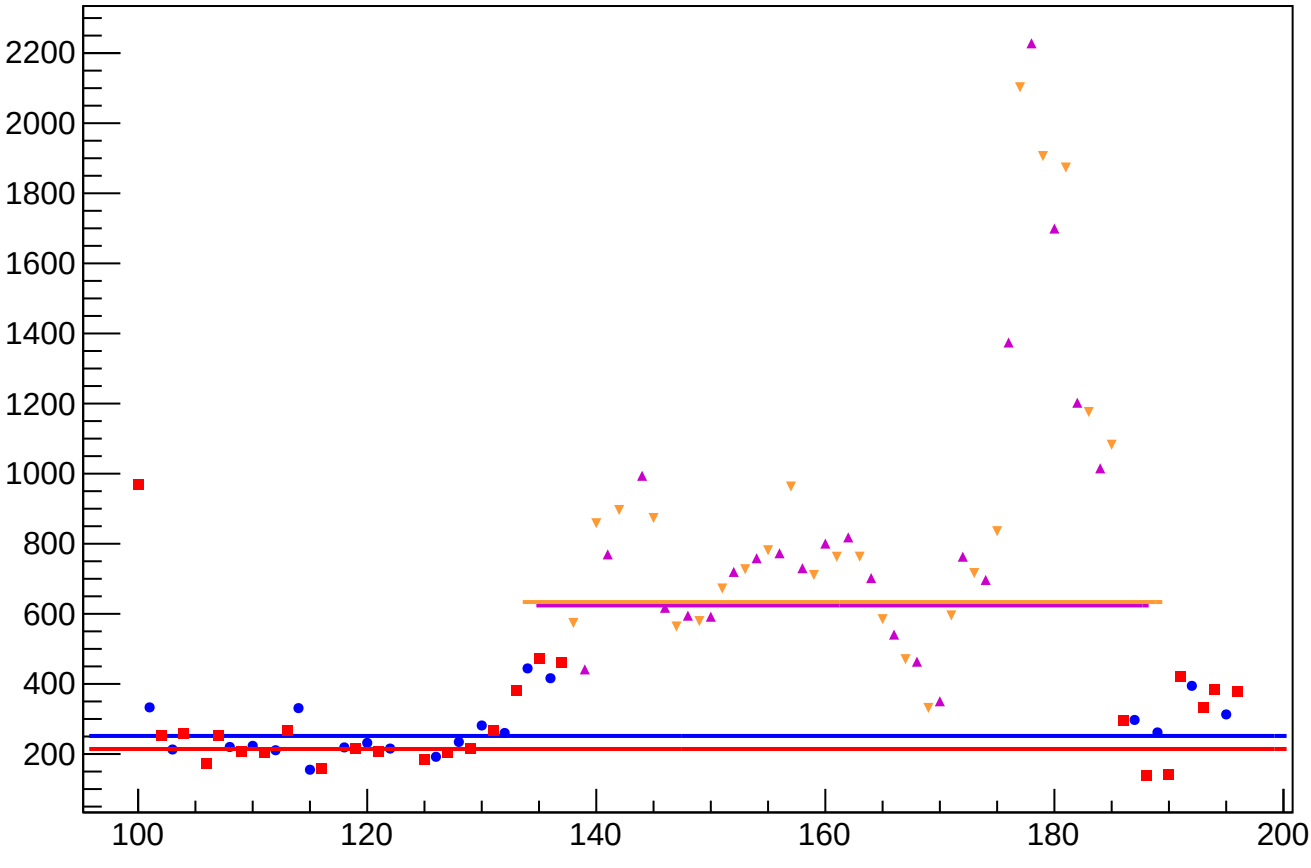
Right: 0.009+/-0.000 $\chi^2$/NDF: 19806623.0/44

In: 0.011+/-0.000 $\chi^2$/NDF:15072941.0/42

Out: 0.008+/-0.000 $\chi^2$/NDF:25765801.3/48

All: 0.009+/-0.000 $\chi^2$/NDF: 42453348.0/91


asym_atl2_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: -0.098+/-0.086 χ²/NDF: 15.9/19
Left Out: -0.085+/-0.161 χ²/NDF:30.2/23
Right Out: 0.056+/-0.070 χ²/NDF: 33.4/24
Left In: -0.147+/-0.158 χ²/NDF:26.4/22
Left: -0.117+/-0.113 χ²/NDF: 56.8/46
Right: -0.006+/-0.054 χ²/NDF: 51.3/44
In: -0.109+/-0.075 χ²/NDF:42.4/42
Out: 0.034+/-0.064 χ²/NDF:64.3/48
All: -0.026+/-0.049 χ²/NDF: 108.8/91




Right In: 251.582+/-0.061 $\chi^2$/NDF: 1163556.0/19

Left Out: 633.678+/-0.114 $\chi^2$/NDF:4994172.5/23

Right Out: 214.389+/-0.049 $\chi^2$/NDF: 2541497.9/24

Left In: 623.922+/-0.112 $\chi^2$/NDF:4541413.9/22

Left: 628.702+/-0.080 $\chi^2$/NDF: 9539311.9/46

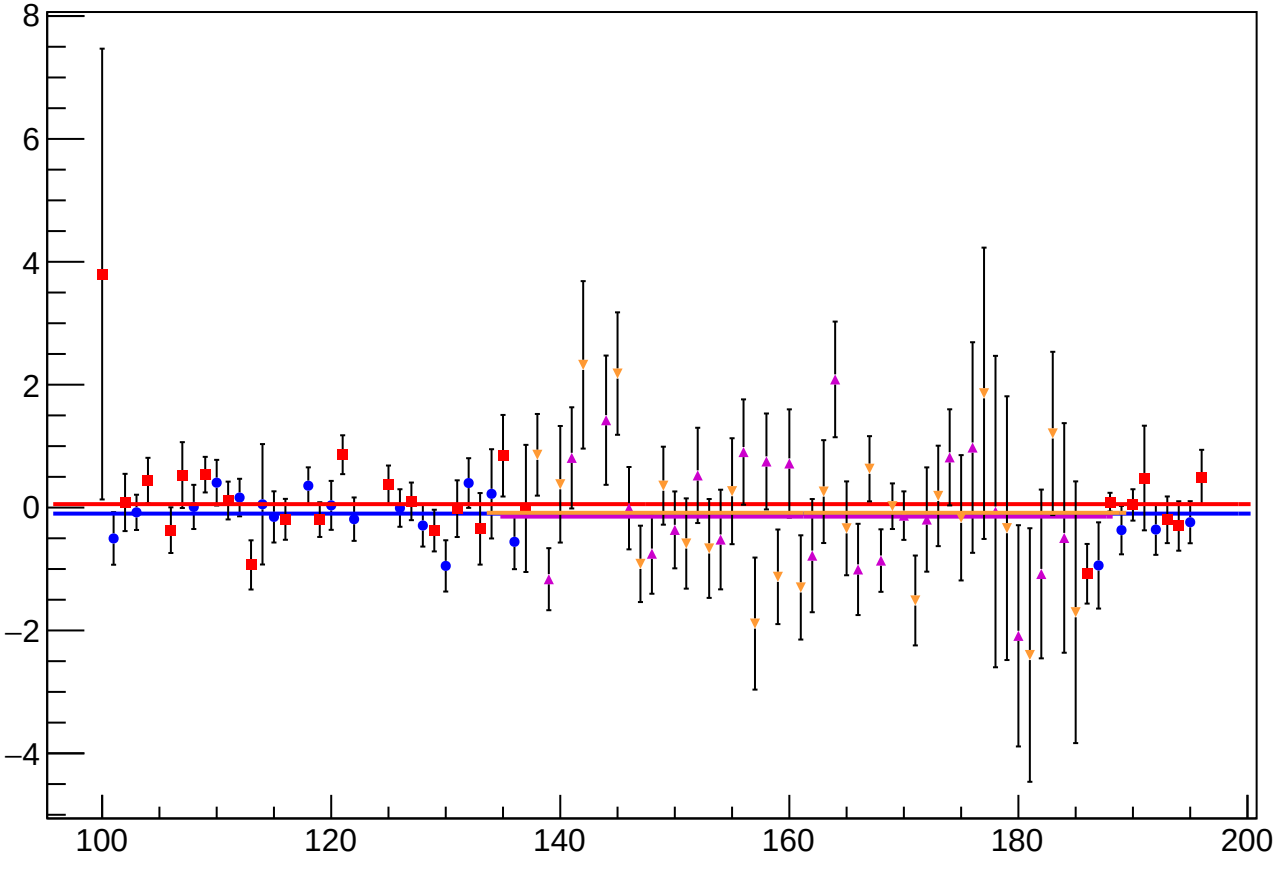
Right: 229.222+/-0.038 $\chi^2$/NDF: 3932191.8/44

In: 335.855+/-0.053 $\chi^2$/NDF:14274908.3/42

Out: 280.268+/-0.045 $\chi^2$/NDF:18907739.4/48

All: 303.589+/-0.034 $\chi^2$/NDF: 33815826.2/91

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.098+/-0.086 $\chi^2$/NDF: 15.9/19

Left Out: -0.085+/-0.161 $\chi^2$/NDF:30.2/23

Right Out: 0.056+/-0.070 $\chi^2$/NDF: 33.4/24

Left In: -0.147+/-0.158 $\chi^2$/NDF:26.4/22

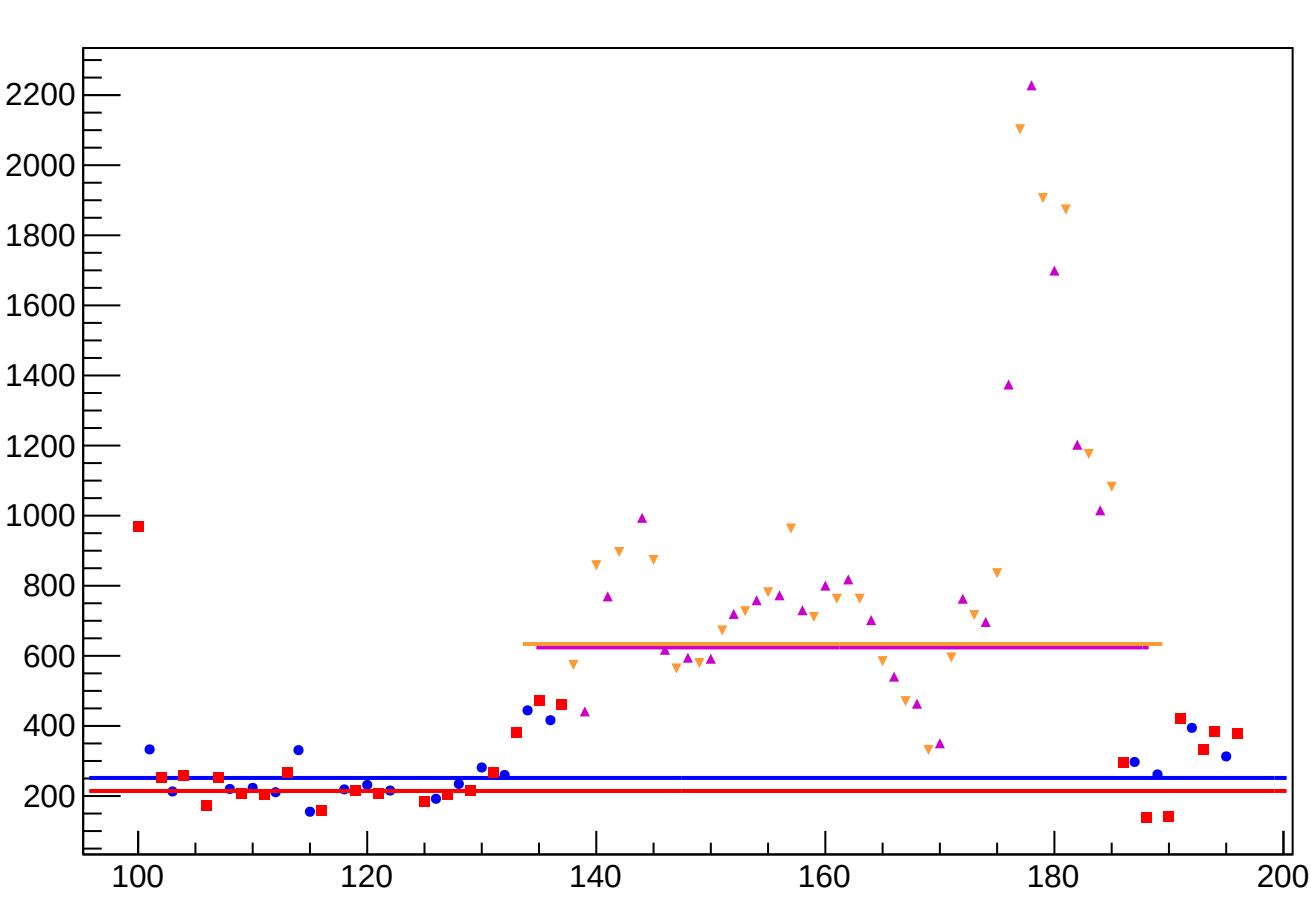
Left: -0.117+/-0.113 $\chi^2$/NDF: 56.8/46

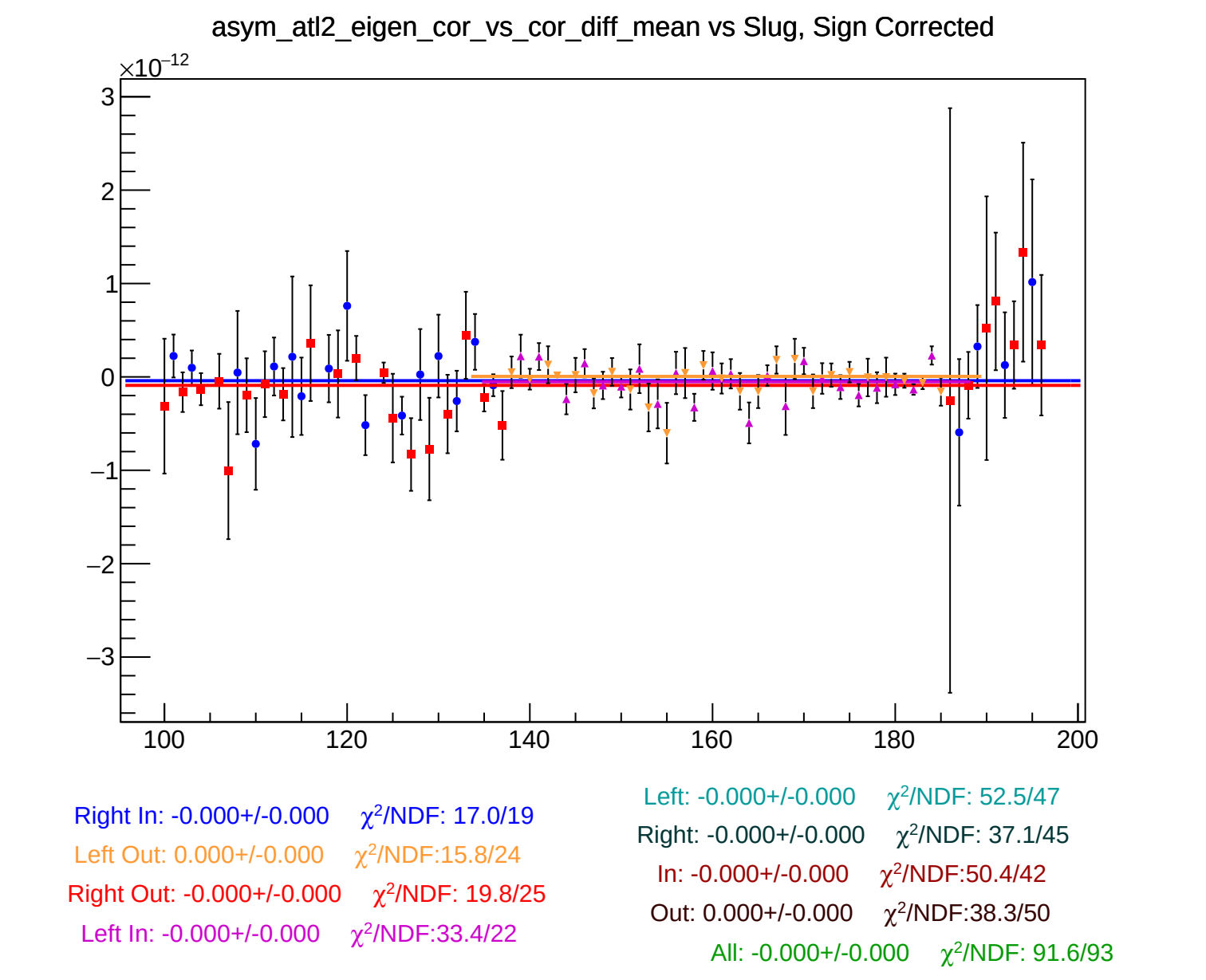
Right: -0.006+/-0.054 $\chi^2$/NDF: 51.3/44

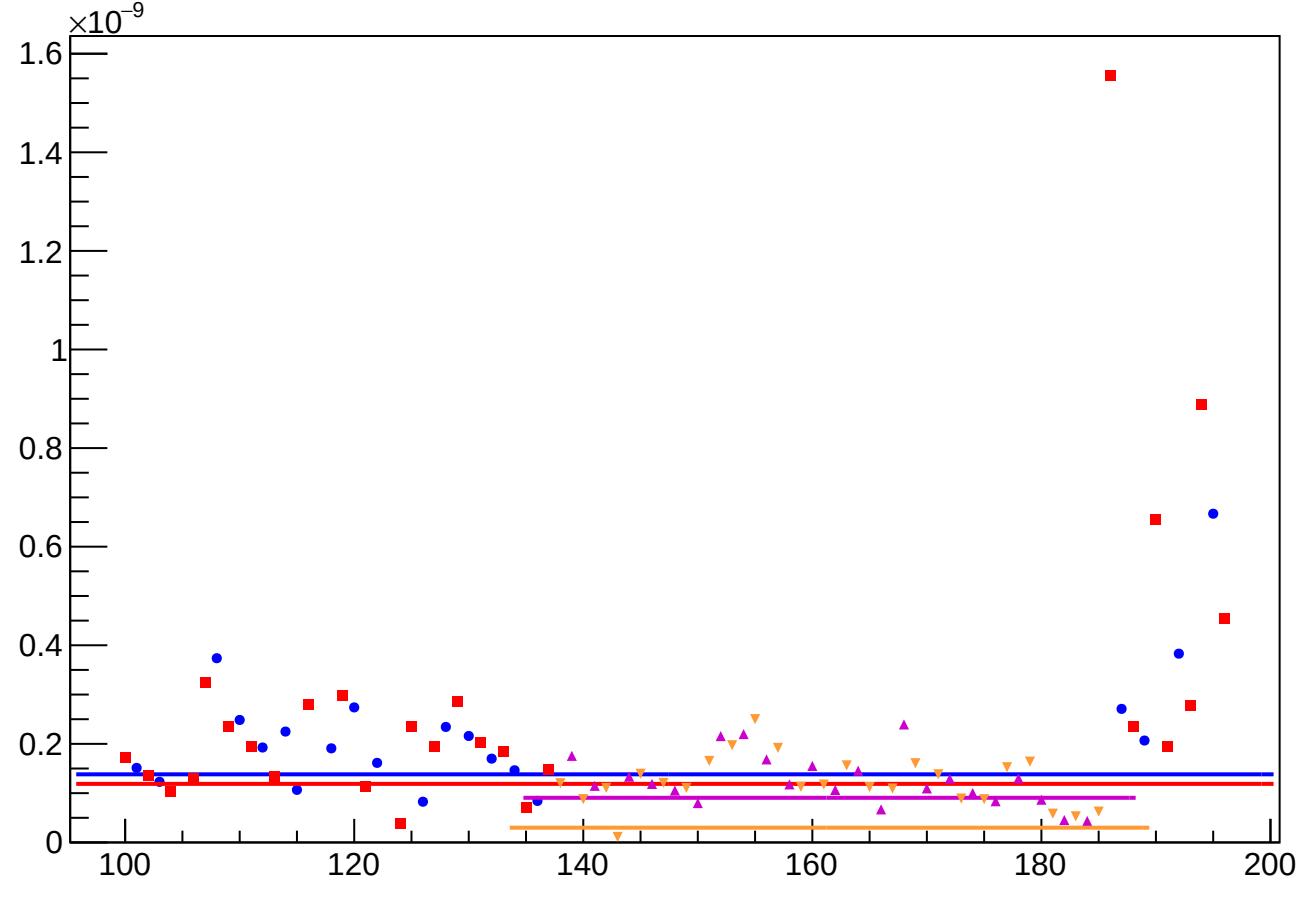
In: -0.109+/-0.075 $\chi^2$/NDF:42.4/42

Out: 0.034+/-0.064 $\chi^2$/NDF:64.3/48

All: -0.026+/-0.049 $\chi^2$/NDF: 108.8/91


asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
100
120
140
160
180
200
Right In: 251.582+/-0.061 χ²/NDF: 1163556.0/19
Left Out: 633.678+/-0.114 χ²/NDF:4994172.5/23
Right Out: 214.389+/-0.049 χ²/NDF: 2541497.9/24
Left In: 623.922+/-0.112 χ²/NDF:4541413.9/22
Left: 628.702+/-0.080 χ²/NDF: 9539311.9/46
Right: 229.222+/-0.038 χ²/NDF: 3932191.8/44
In: 335.855+/-0.053 χ²/NDF:14274908.3/42
Out: 280.268+/-0.045 χ²/NDF:18907739.4/48
All: 303.589+/-0.034 χ²/NDF: 33815826.2/91


asym_atl2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 17.0/19
Left Out: 0.000+/-0.000 χ²/NDF:15.8/24
Right Out: -0.000+/-0.000 χ²/NDF: 19.8/25
Left In: -0.000+/-0.000 χ²/NDF:33.4/22
Left: -0.000+/-0.000 χ²/NDF: 52.5/47
Right: -0.000+/-0.000 χ²/NDF: 37.1/45
In: -0.000+/-0.000 χ²/NDF:50.4/42
Out: 0.000+/-0.000 χ²/NDF:38.3/50
All: -0.000+/-0.000 χ²/NDF: 91.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2304893.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17263498.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5172046.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:4716343.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 29587513.4/47

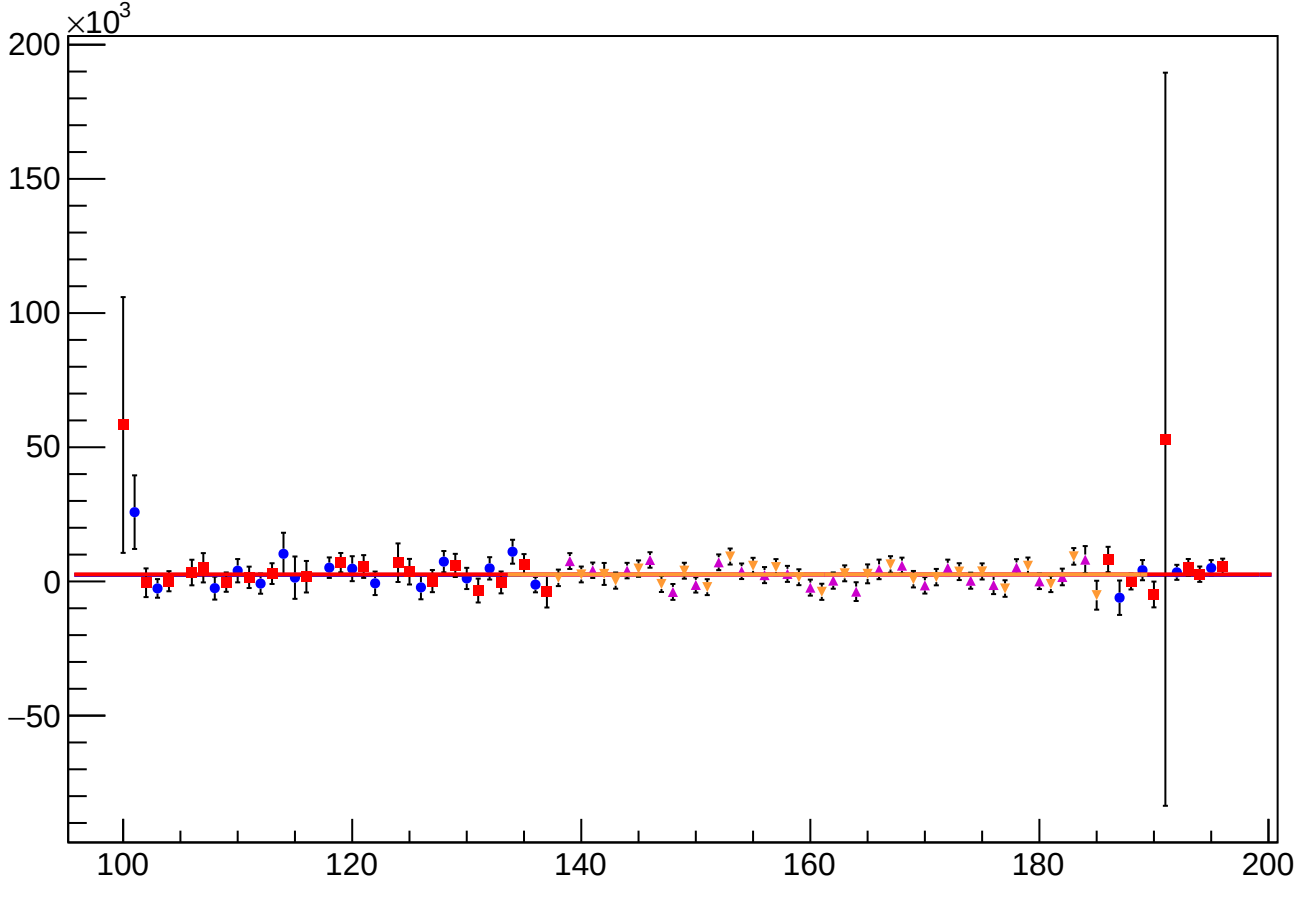
Right: 0.000+/-0.000 $\chi^2$/NDF: 7575358.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:7905863.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:26984626.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 44409237.7/93

# reg_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2431.780+/-909.305 $\chi^2$/NDF: 20.8/19

Left Out: 2556.827+/-621.829 $\chi^2$/NDF:31.6/24

Right Out: 2624.064+/-825.927 $\chi^2$/NDF: 17.1/25

Left In: 2408.320+/-639.726 $\chi^2$/NDF:31.4/22

Left: 2484.680+/-445.893 $\chi^2$/NDF: 63.0/47

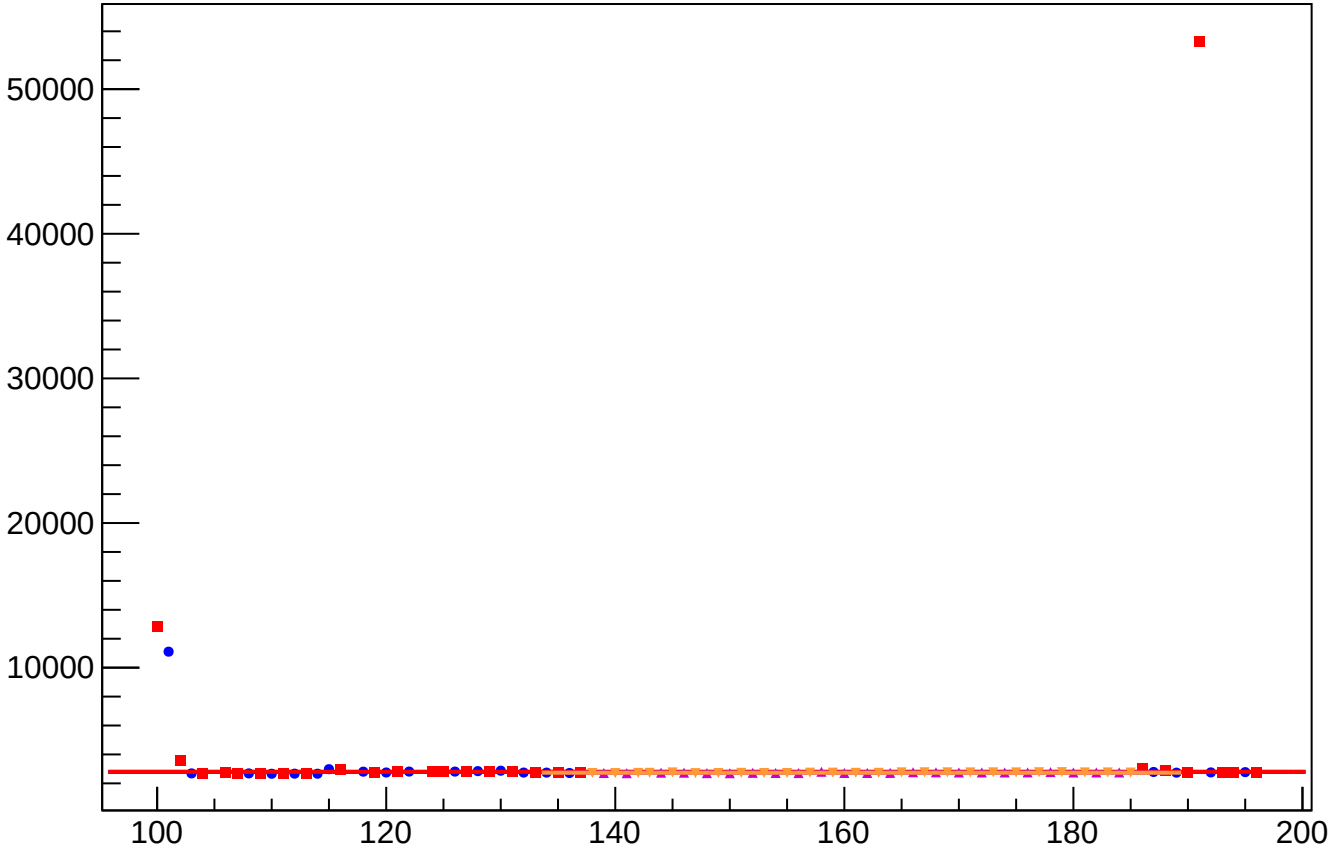
Right: 2537.140+/-611.375 $\chi^2$/NDF: 37.9/45

In: 2416.087+/-523.214 $\chi^2$/NDF:52.1/42

Out: 2581.152+/-496.774 $\chi^2$/NDF:48.7/50

All: 2502.895+/-360.257 $\chi^2$/NDF: 100.9/93

# reg_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2793.386+/-0.643 $\chi^2$/NDF: 747299.4/19

Left Out: 2737.519+/-0.440 $\chi^2$/NDF:2317.5/24

Right Out: 2798.457+/-0.584 $\chi^2$/NDF: 478595.2/25

Left In: 2739.863+/-0.452 $\chi^2$/NDF:3362.0/22

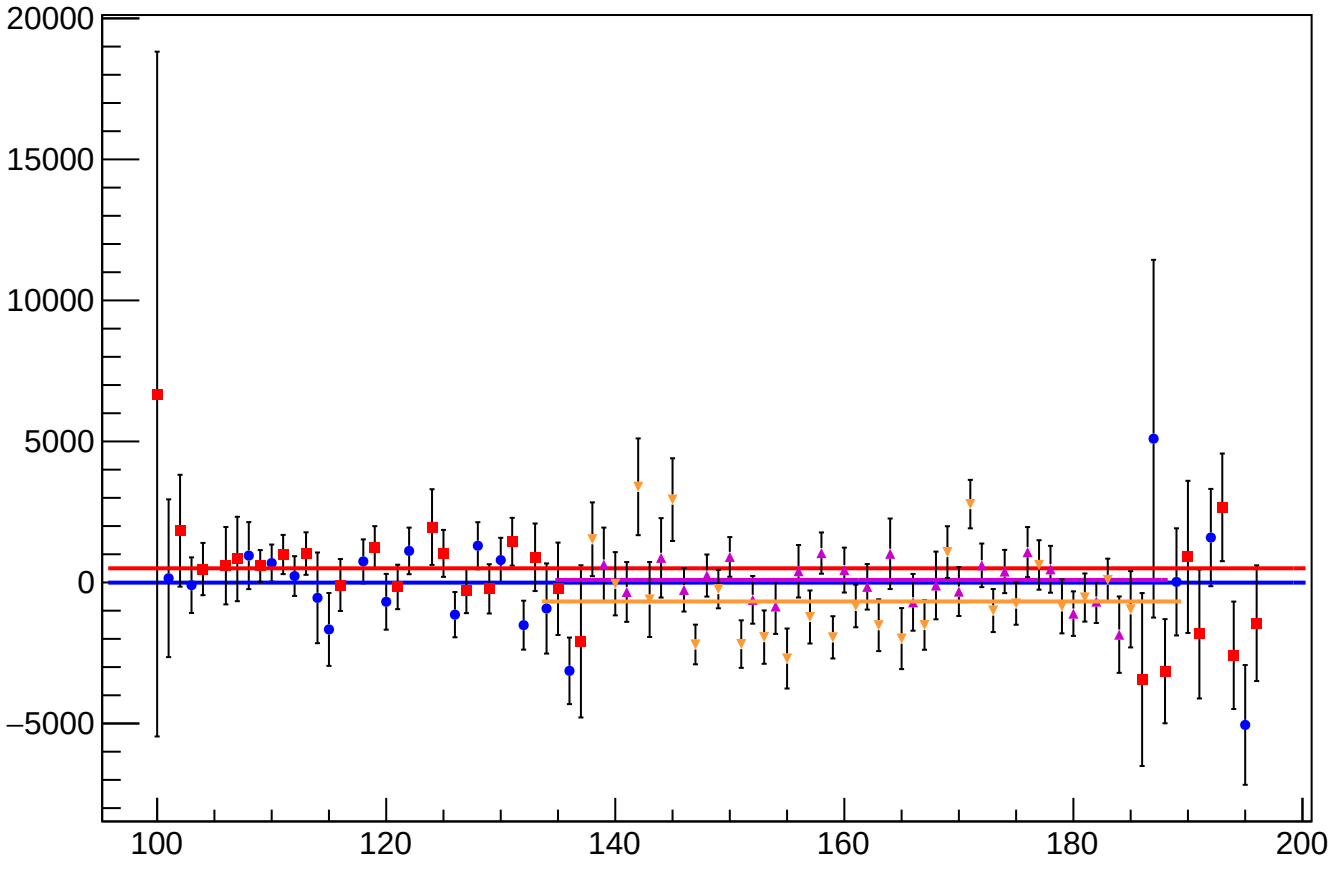
Left: 2738.658+/-0.315 $\chi^2$/NDF: 5693.3/47

Right: 2796.165+/-0.432 $\chi^2$/NDF: 1225928.7/45

In: 2757.584+/-0.370 $\chi^2$/NDF:755296.5/42

Out: 2759.565+/-0.351 $\chi^2$/NDF:487861.5/50

All: 2758.625+/-0.255 $\chi^2$/NDF: 1243173.1/93




Right In: -5.443+/-228.194 $\chi^2$/NDF: 29.9/19

Left Out: -673.693+/-181.230 $\chi^2$/NDF:58.4/24

Right Out: 501.896+/-208.696 $\chi^2$/NDF: 21.0/25

Left In: 89.519+/-183.491 $\chi^2$/NDF:14.8/22

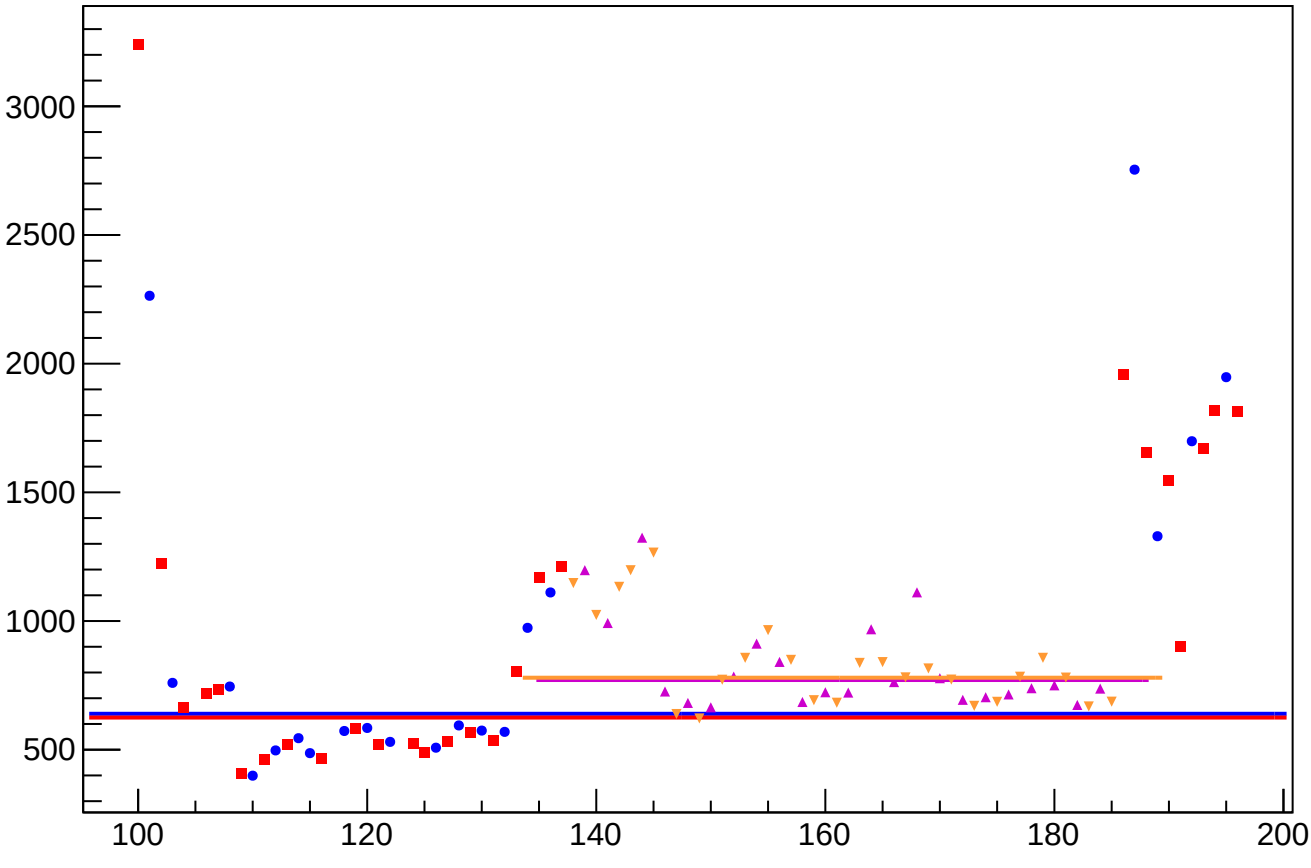
Left: -296.818+/-128.941 $\chi^2$/NDF: 81.9/47

Right: 270.824+/-154.003 $\chi^2$/NDF: 53.6/45

In: 52.229+/-142.996 $\chi^2$/NDF:44.8/42

Out: -168.294+/-136.837 $\chi^2$/NDF:97.5/50

All: -62.884+/-98.864 $\chi^2$/NDF: 143.5/93




Right In: 639.564+/-0.161 $\chi^2$/NDF: 3653699.5/19

Left Out: 779.715+/-0.128 $\chi^2$/NDF:1243743.5/24

Right Out: 624.933+/-0.148 $\chi^2$/NDF: 4651242.8/25

Left In: 770.795+/-0.130 $\chi^2$/NDF:1076354.9/22

Left: 775.310+/-0.091 $\chi^2$/NDF: 2322491.0/47

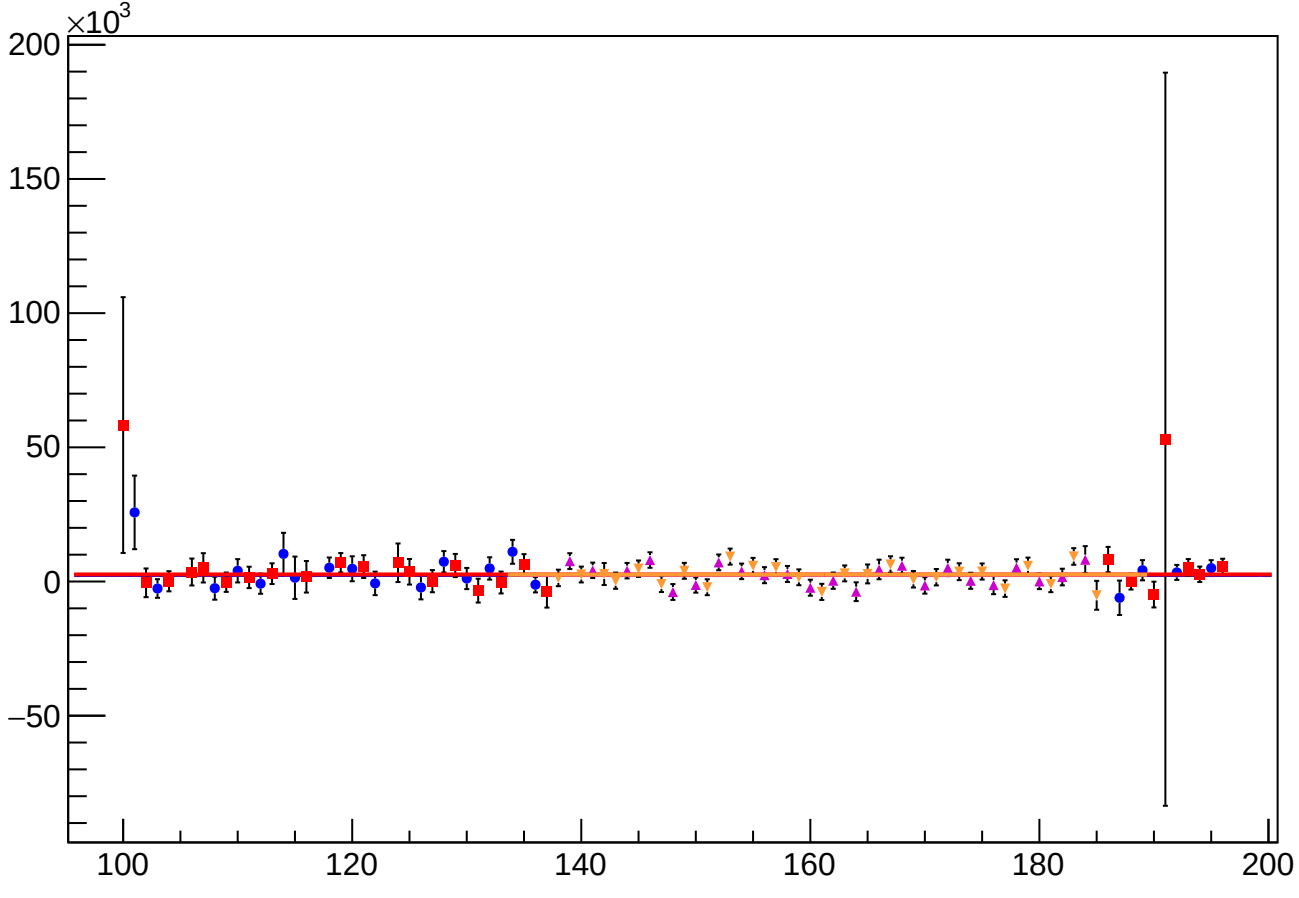
Right: 631.597+/-0.109 $\chi^2$/NDF: 8309419.7/45

In: 719.263+/-0.101 $\chi^2$/NDF:5131758.7/42

Out: 713.172+/-0.097 $\chi^2$/NDF:6522159.6/50

All: 716.084+/-0.070 $\chi^2$/NDF: 11655812.5/93

# cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2431.285+/-909.306 $\chi^2$/NDF: 20.7/19

Left Out: 2556.787+/-621.829 $\chi^2$/NDF:31.6/24

Right Out: 2628.456+/-827.136 $\chi^2$/NDF: 17.1/25

Left In: 2408.461+/-639.726 $\chi^2$/NDF:31.4/22

Left: 2484.728+/-445.893 $\chi^2$/NDF: 63.0/47

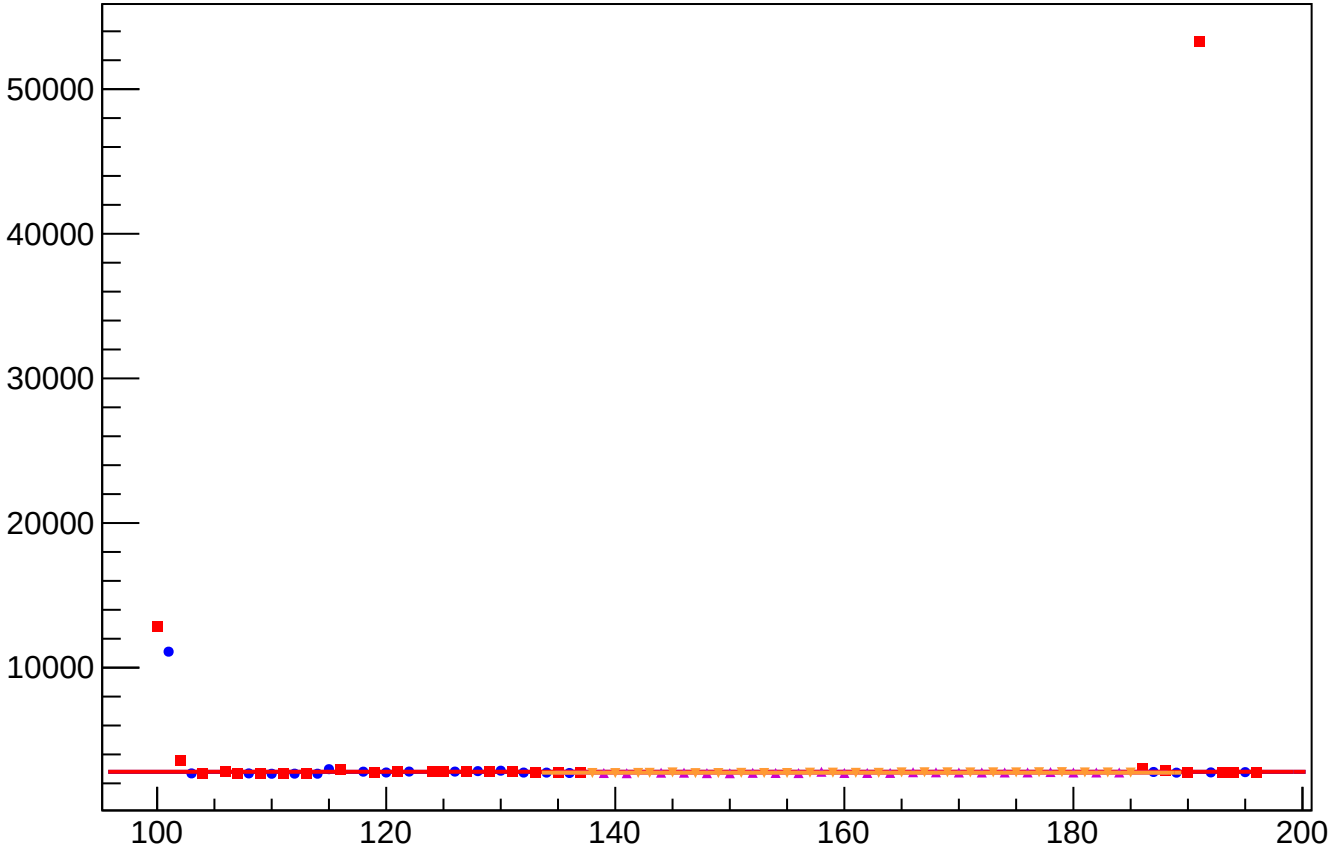
Right: 2539.180+/-611.865 $\chi^2$/NDF: 37.9/45

In: 2416.018+/-523.214 $\chi^2$/NDF:52.1/42

Out: 2582.666+/-497.037 $\chi^2$/NDF:48.7/50

All: 2503.615+/-360.357 $\chi^2$/NDF: 100.9/93

# cor_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2793.386+/-0.643 $\chi^2$/NDF: 747298.5/19

Left Out: 2737.519+/-0.440 $\chi^2$/NDF:2317.5/24

Right Out: 2801.875+/-0.585 $\chi^2$/NDF: 478168.1/25

Left In: 2739.863+/-0.452 $\chi^2$/NDF:3362.0/22

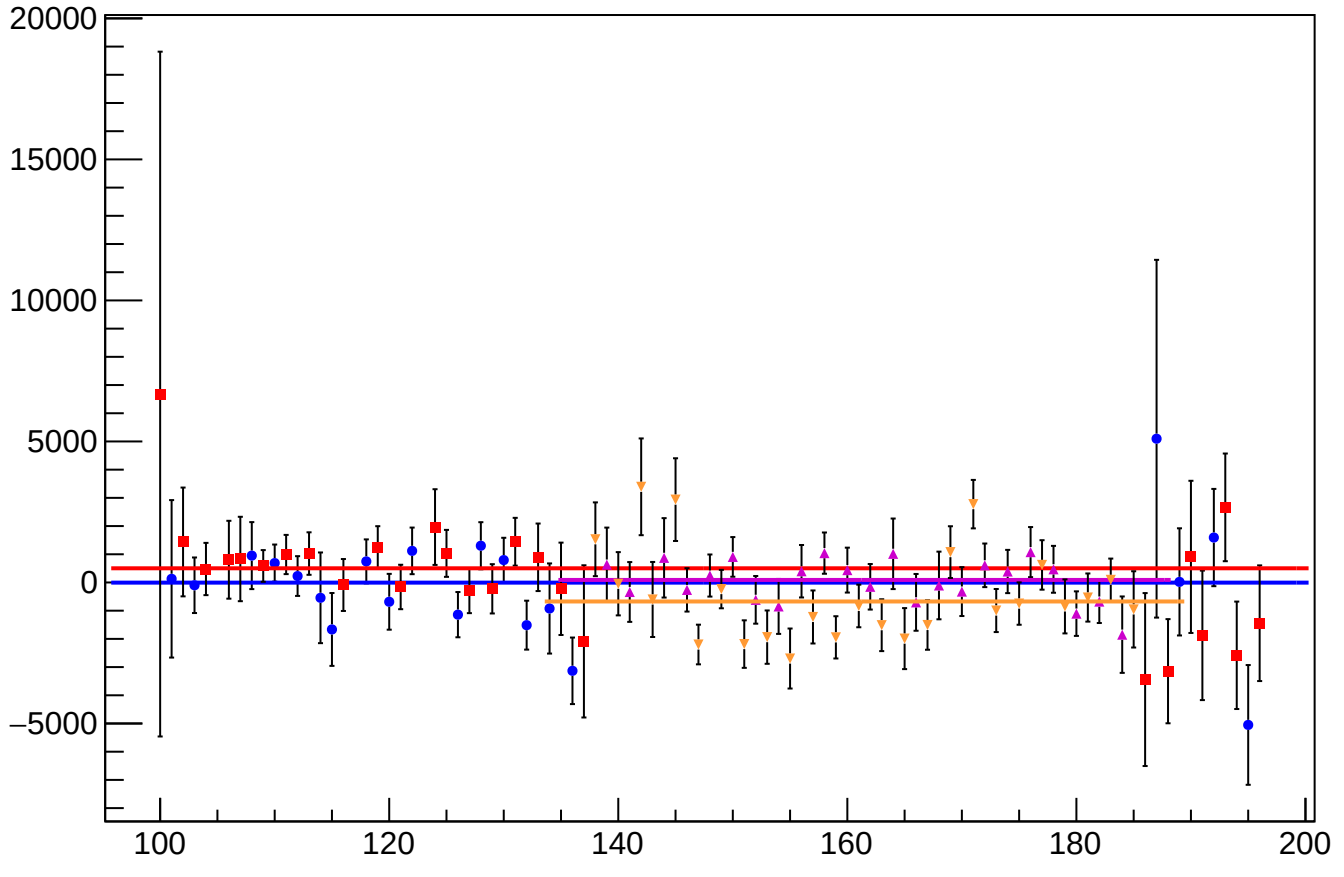
Left: 2738.658+/-0.315 $\chi^2$/NDF: 5693.3/47

Right: 2798.031+/-0.433 $\chi^2$/NDF: 1225562.0/45

In: 2757.584+/-0.370 $\chi^2$/NDF:755295.6/42

Out: 2760.758+/-0.351 $\chi^2$/NDF:488221.3/50

All: 2759.252+/-0.255 $\chi^2$/NDF: 1243555.6/93




Right In: -5.472+/-228.184 $\chi^2$/NDF: 29.9/19

Left Out: -673.608+/-181.230 $\chi^2$/NDF:58.4/24

Right Out: 502.736+/-208.660 $\chi^2$/NDF: 20.9/25

Left In: 89.643+/-183.492 $\chi^2$/NDF:14.8/22

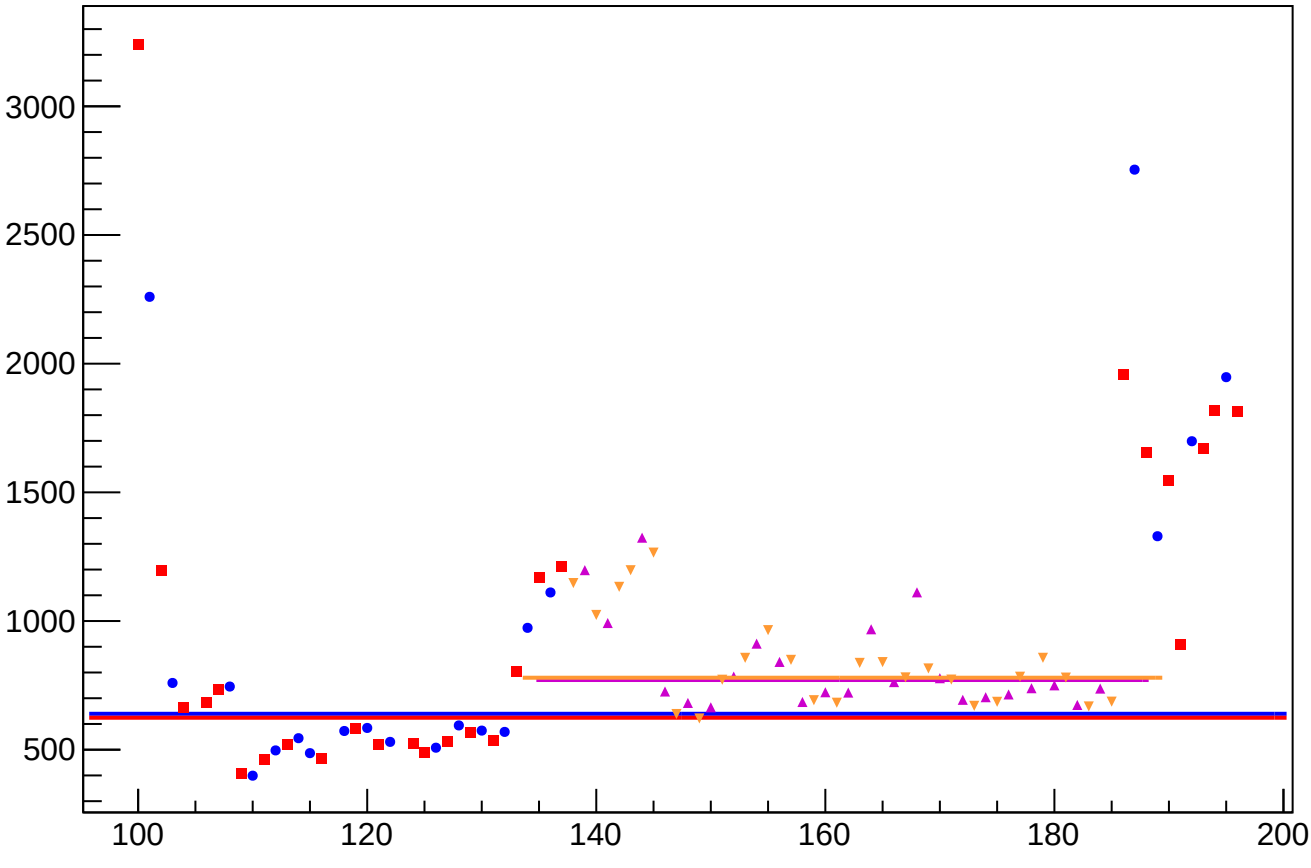
Left: -296.716+/-128.941 $\chi^2$/NDF: 81.9/47

Right: 271.299+/-153.986 $\chi^2$/NDF: 53.5/45

In: 52.291+/-142.994 $\chi^2$/NDF:44.8/42

Out: -167.788+/-136.827 $\chi^2$/NDF:97.4/50

All: -62.597+/-98.859 $\chi^2$/NDF: 143.4/93




Right In: 639.558+/-0.161 $\chi^2$/NDF: 3652723.7/19

Left Out: 779.713+/-0.128 $\chi^2$/NDF:1243769.6/24

Right Out: 624.247+/-0.148 $\chi^2$/NDF: 4641912.1/25

Left In: 770.799+/-0.130 $\chi^2$/NDF:1076291.1/22

Left: 775.311+/-0.091 $\chi^2$/NDF: 2322450.1/47

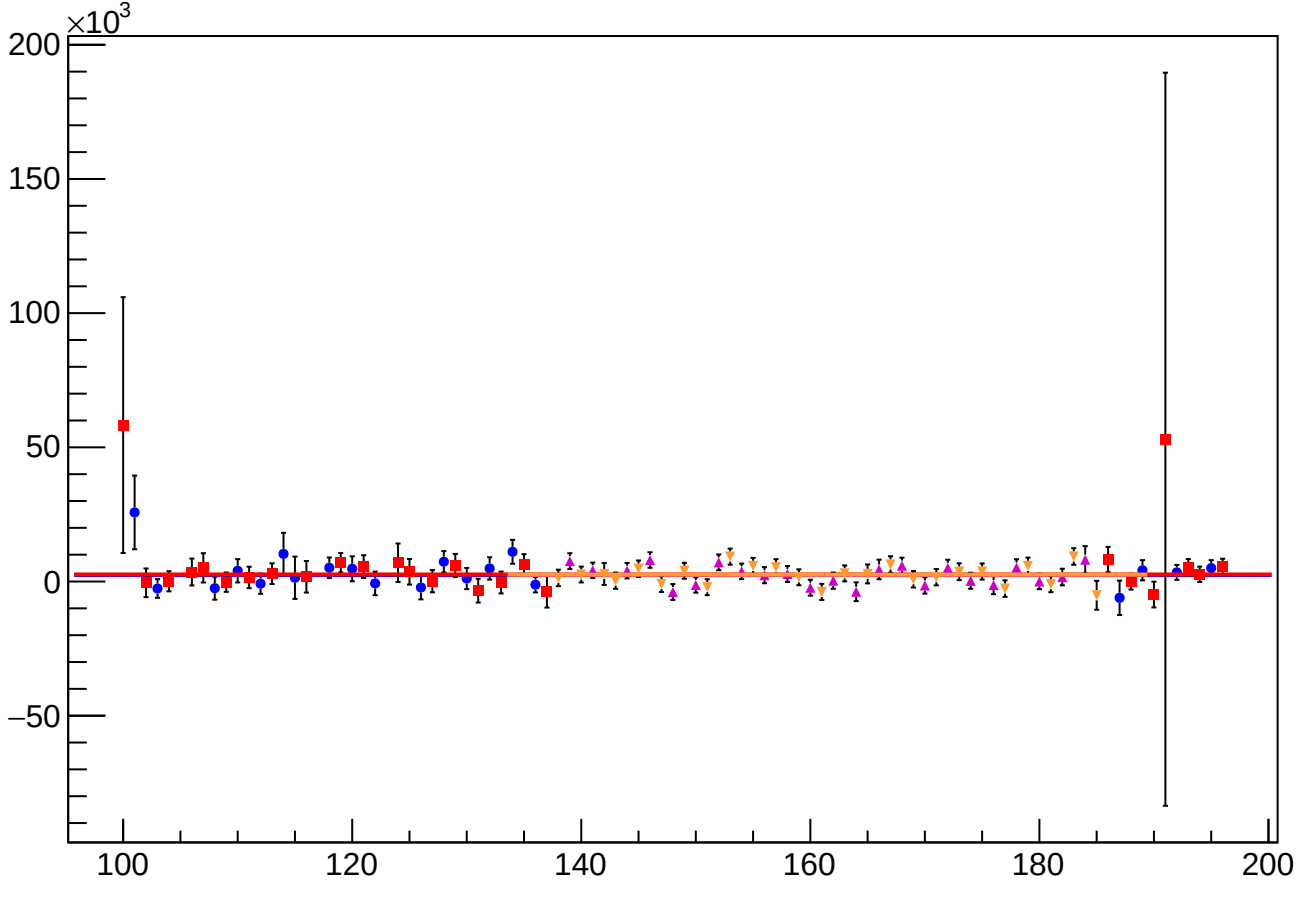
Right: 631.219+/-0.109 $\chi^2$/NDF: 8299540.0/45

In: 719.260+/-0.101 $\chi^2$/NDF:5130804.1/42

Out: 712.864+/-0.097 $\chi^2$/NDF:6518535.5/50

All: 715.921+/-0.070 $\chi^2$/NDF: 11651428.8/93

# eigen_cor_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2431.285+/-909.306 $\chi^2$/NDF: 20.7/19

Left Out: 2556.787+/-621.829 $\chi^2$/NDF:31.6/24

Right Out: 2628.456+/-827.136 $\chi^2$/NDF: 17.1/25

Left In: 2408.461+/-639.726 $\chi^2$/NDF:31.4/22

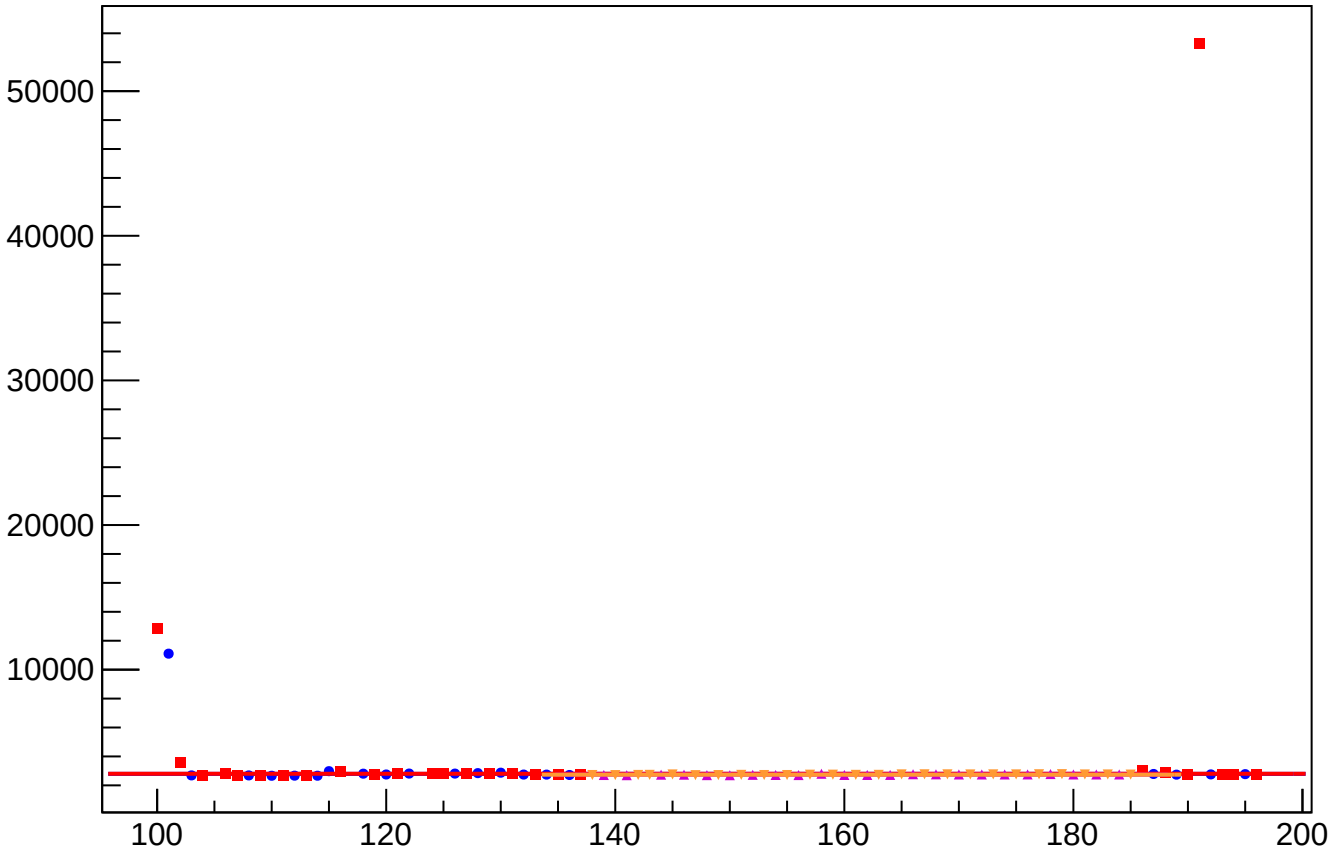
Left: 2484.728+/-445.893 $\chi^2$/NDF: 63.0/47

Right: 2539.180+/-611.865 $\chi^2$/NDF: 37.9/45

In: 2416.018+/-523.214 $\chi^2$/NDF:52.1/42

Out: 2582.666+/-497.037 $\chi^2$/NDF:48.7/50

All: 2503.615+/-360.357 $\chi^2$/NDF: 100.9/93




Right In: 2793.386+/-0.643 $\chi^2$/NDF: 747298.5/19

Left Out: 2737.519+/-0.440 $\chi^2$/NDF:2317.5/24

Right Out: 2801.875+/-0.585 $\chi^2$/NDF: 478168.1/25

Left In: 2739.863+/-0.452 $\chi^2$/NDF:3362.0/22

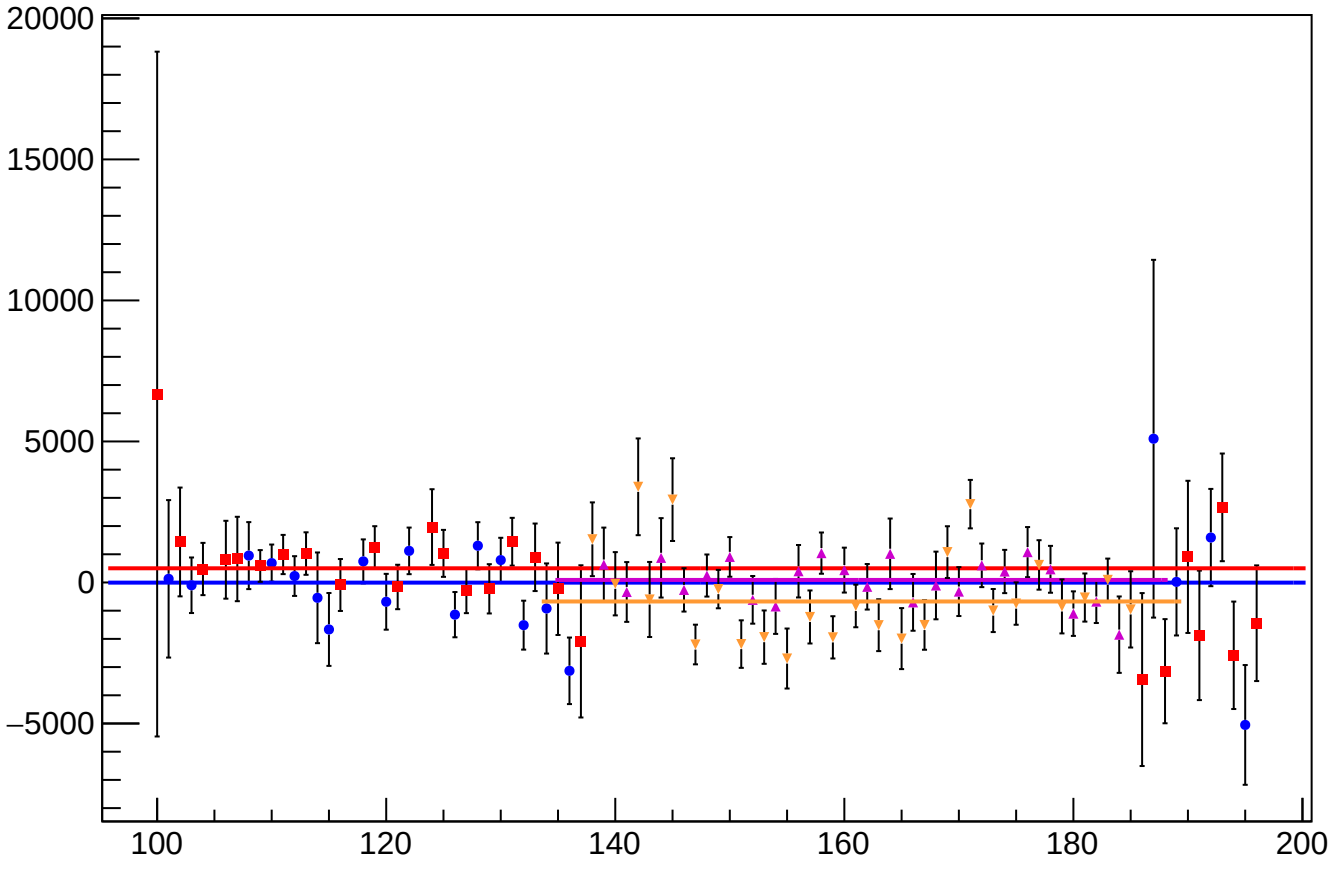
Left: 2738.658+/-0.315 $\chi^2$/NDF: 5693.3/47

Right: 2798.031+/-0.433 $\chi^2$/NDF: 1225562.0/45

In: 2757.584+/-0.370 $\chi^2$/NDF:755295.6/42

Out: 2760.758+/-0.351 $\chi^2$/NDF:488221.3/50

All: 2759.252+/-0.255 $\chi^2$/NDF: 1243555.6/93




Right In: -5.472+/-228.184 $\chi^2$/NDF: 29.9/19

Left Out: -673.608+/-181.230 $\chi^2$/NDF:58.4/24

Right Out: 502.736+/-208.660 $\chi^2$/NDF: 20.9/25

Left In: 89.643+/-183.492 $\chi^2$/NDF:14.8/22

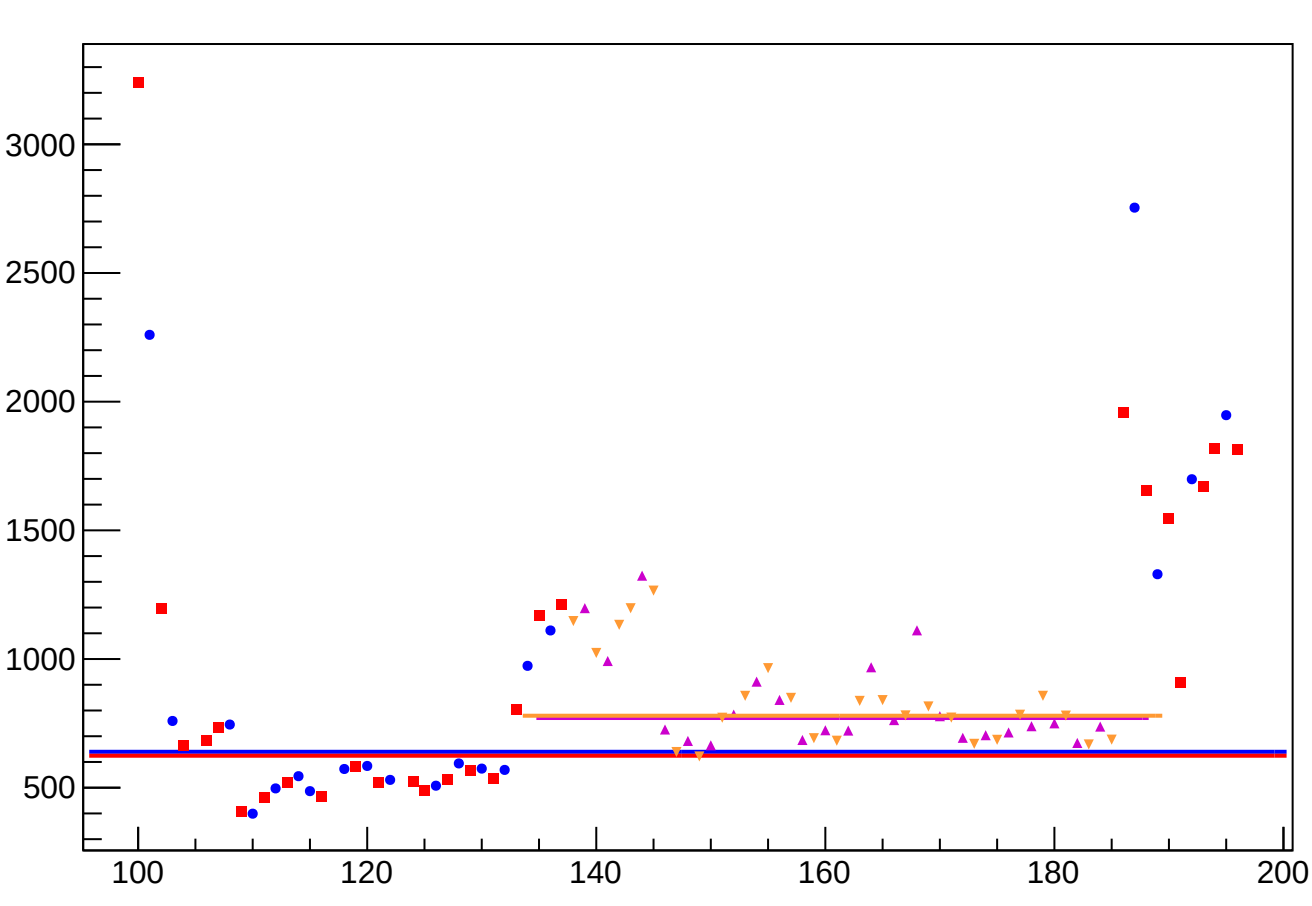
Left: -296.716+/-128.941 $\chi^2$/NDF: 81.9/47

Right: 271.299+/-153.986 $\chi^2$/NDF: 53.5/45

In: 52.291+/-142.994 $\chi^2$/NDF:44.8/42

Out: -167.788+/-136.827 $\chi^2$/NDF:97.4/50

All: -62.597+/-98.859 $\chi^2$/NDF: 143.4/93




Right In: 639.558+/-0.161 $\chi^2$/NDF: 3652723.7/19

Left Out: 779.713+/-0.128 $\chi^2$/NDF:1243769.6/24

Right Out: 624.247+/-0.148 $\chi^2$/NDF: 4641912.1/25

Left In: 770.799+/-0.130 $\chi^2$/NDF:1076291.1/22

Left: 775.311+/-0.091 $\chi^2$/NDF: 2322450.1/47

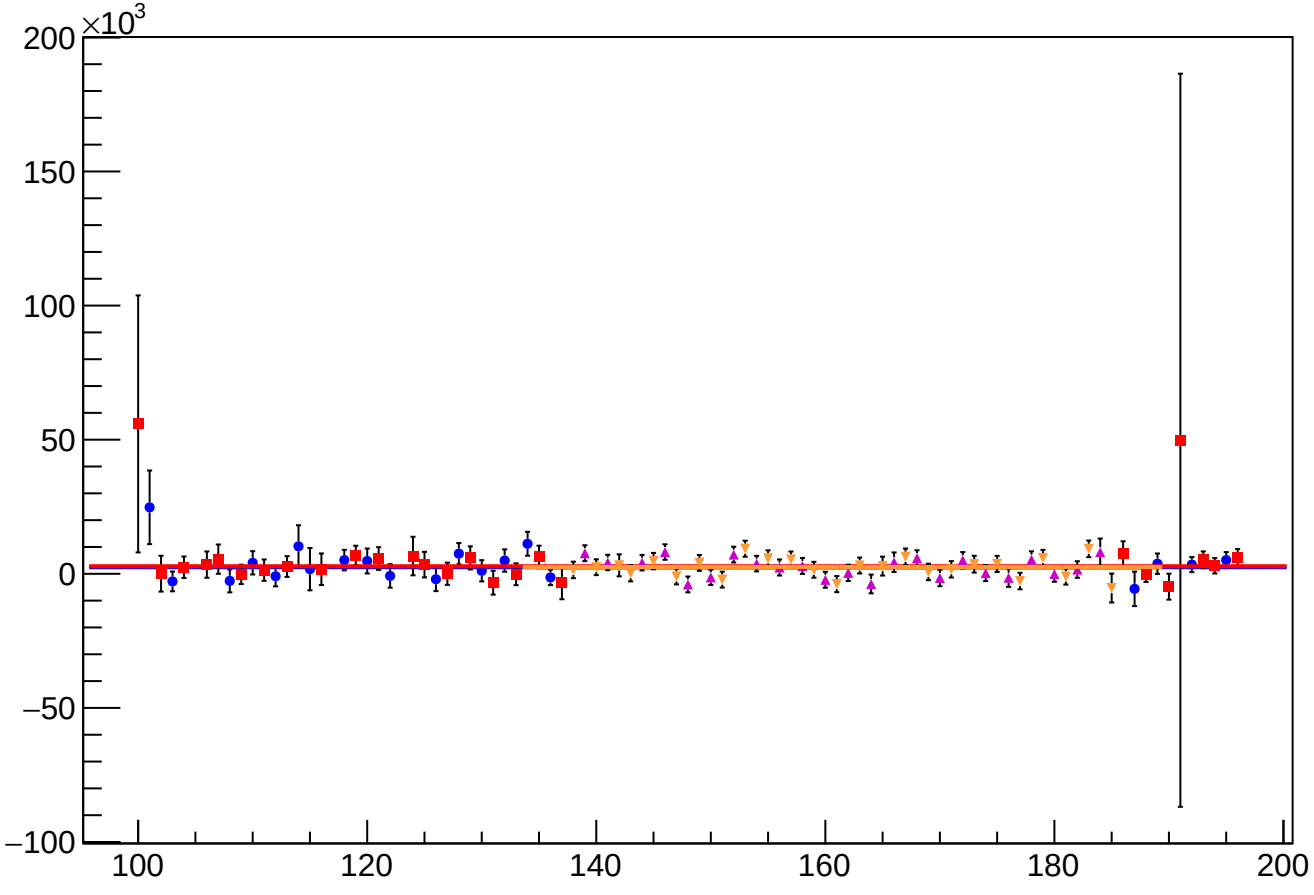
Right: 631.219+/-0.109 $\chi^2$/NDF: 8299540.0/45

In: 719.260+/-0.101 $\chi^2$/NDF:5130804.1/42

Out: 712.864+/-0.097 $\chi^2$/NDF:6518535.5/50

All: 715.921+/-0.070 $\chi^2$/NDF: 11651428.8/93

# dit_asym_atr1_mean vs Slug, Sign Corrected




Right In: 2446.036+/-914.923 $\chi^2$/NDF: 20.6/19

Left Out: 2545.043+/-622.236 $\chi^2$/NDF:31.9/24

Right Out: 2827.386+/-834.599 $\chi^2$/NDF: 16.2/25

Left In: 2406.858+/-640.084 $\chi^2$/NDF:31.8/22

Left: 2477.904+/-446.164 $\chi^2$/NDF: 63.7/47

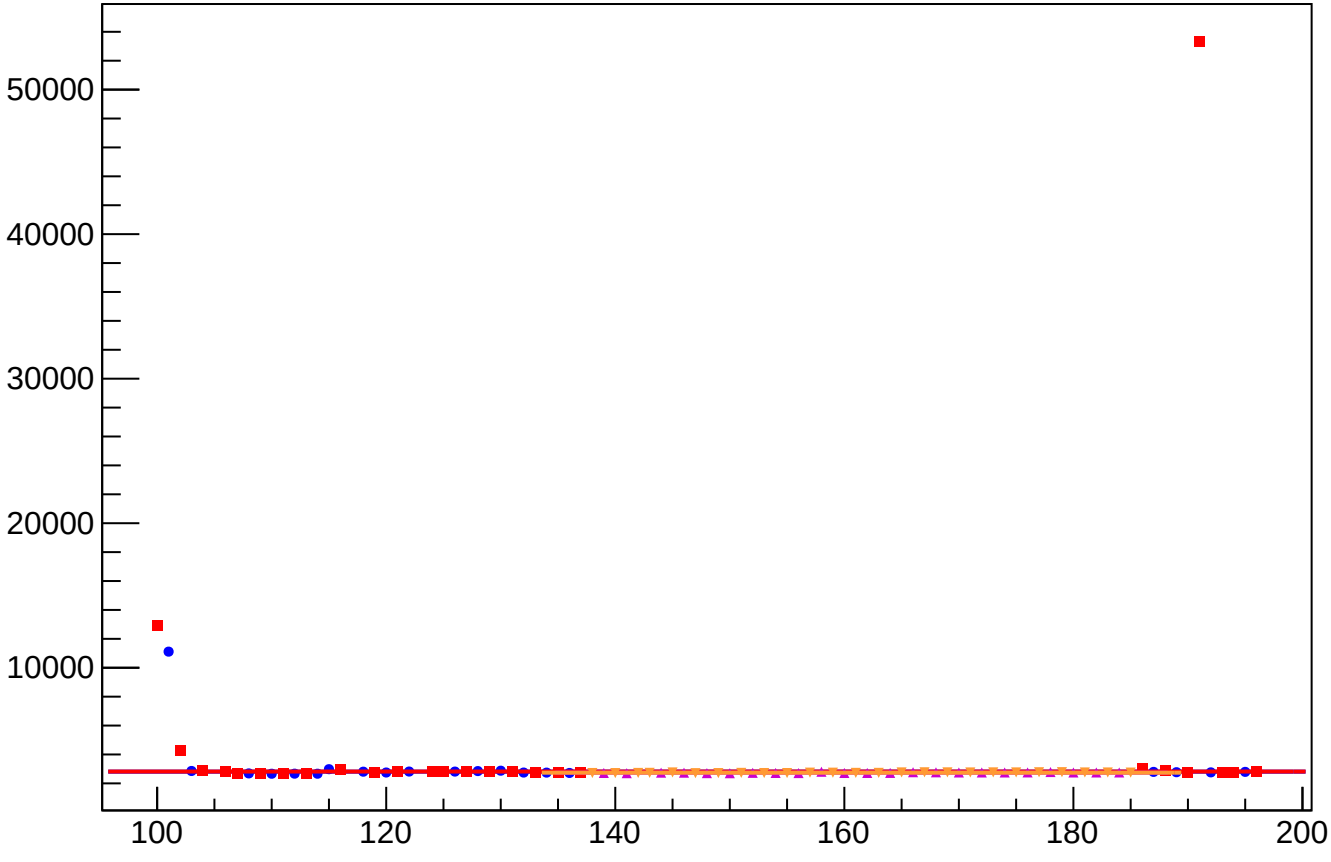
Right: 2654.182+/-616.596 $\chi^2$/NDF: 36.9/45

In: 2419.732+/-524.475 $\chi^2$/NDF:52.4/42

Out: 2645.914+/-498.852 $\chi^2$/NDF:48.1/50

All: 2538.483+/-361.461 $\chi^2$/NDF: 100.7/93

# dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2810.750+/-0.647 $\chi^2$/NDF: 745066.2/19

Left Out: 2739.304+/-0.440 $\chi^2$/NDF:2322.3/24

Right Out: 2819.139+/-0.590 $\chi^2$/NDF: 531306.5/25

Left In: 2741.391+/-0.453 $\chi^2$/NDF:3369.6/22

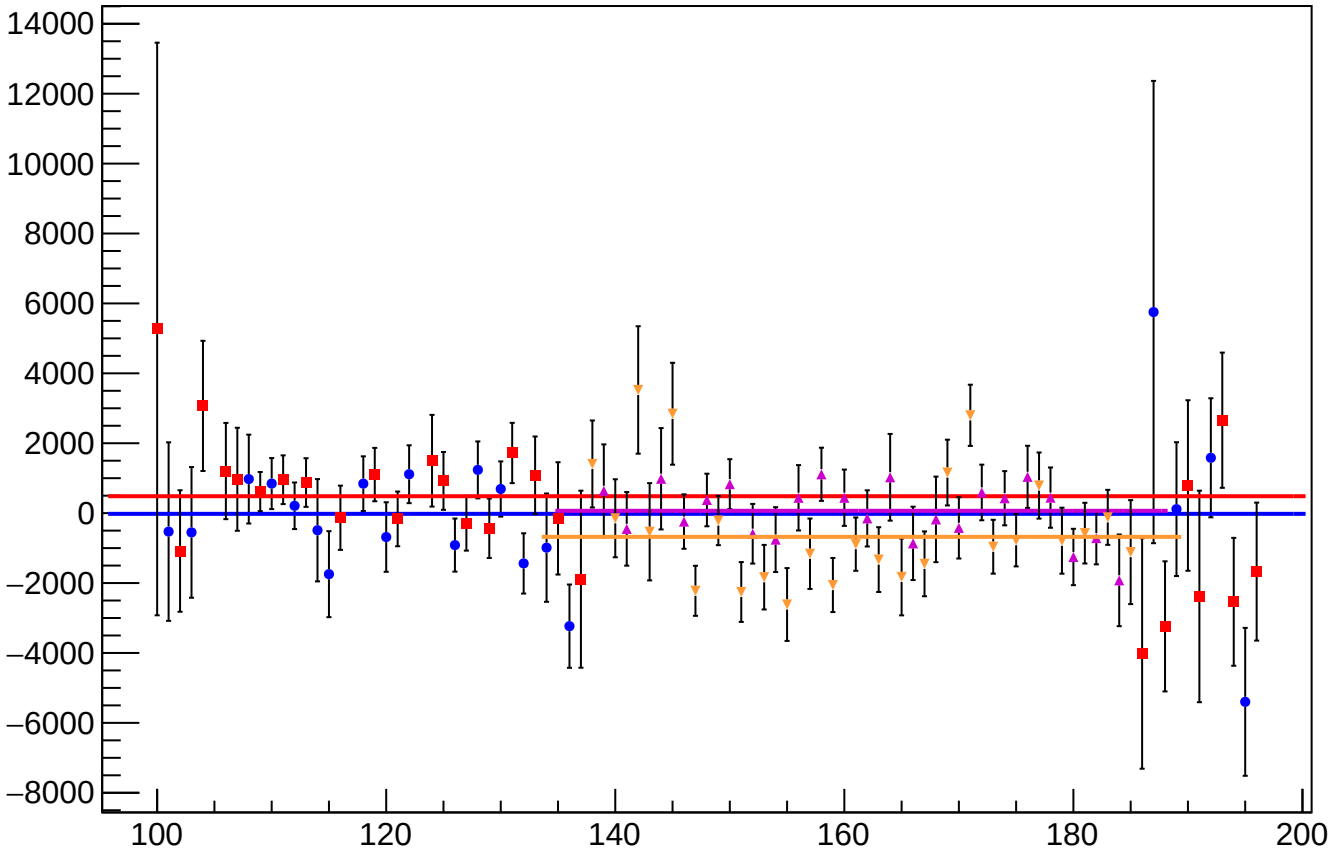
Left: 2740.318+/-0.315 $\chi^2$/NDF: 5702.8/47

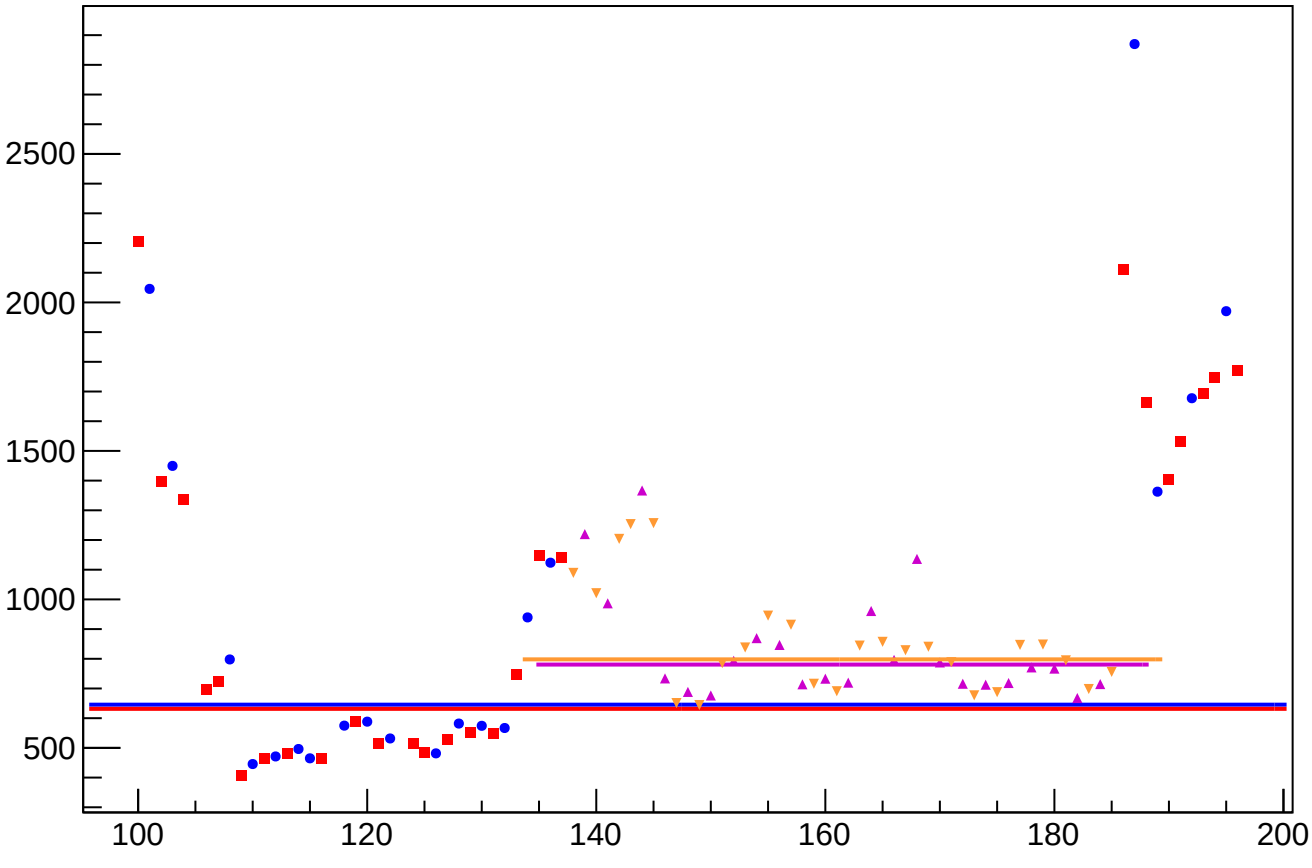
Right: 2815.329+/-0.436 $\chi^2$/NDF: 1276464.4/45

In: 2764.183+/-0.371 $\chi^2$/NDF:756152.7/42

Out: 2767.826+/-0.353 $\chi^2$/NDF:545391.3/50

All: 2766.096+/-0.256 $\chi^2$/NDF: 1301594.7/93


asym_atr1_dit_correction_mean vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
100
120
140
160
180
200
Right In: -20.005+/-231.875 χ²/NDF: 30.9/19
Left Out: -678.226+/-185.004 χ²/NDF:56.2/24
Right Out: 483.930+/-209.893 χ²/NDF: 24.4/25
Left In: 67.156+/-185.436 χ²/NDF:15.8/22
Left: -306.403+/-130.970 χ²/NDF: 80.1/47
Right: 256.976+/-155.609 χ²/NDF: 58.0/45
In: 33.157+/-144.821 χ²/NDF:46.9/42
Out: -170.104+/-138.787 χ²/NDF:97.9/50
All: -72.796+/-100.202 χ²/NDF: 145.8/93




Right In: 645.511+/-0.164 $\chi^2$/NDF: 3969381.4/19

Left Out: 798.091+/-0.131 $\chi^2$/NDF:1168352.1/24

Right Out: 631.430+/-0.148 $\chi^2$/NDF: 5267831.3/25

Left In: 780.525+/-0.131 $\chi^2$/NDF:1064827.5/22

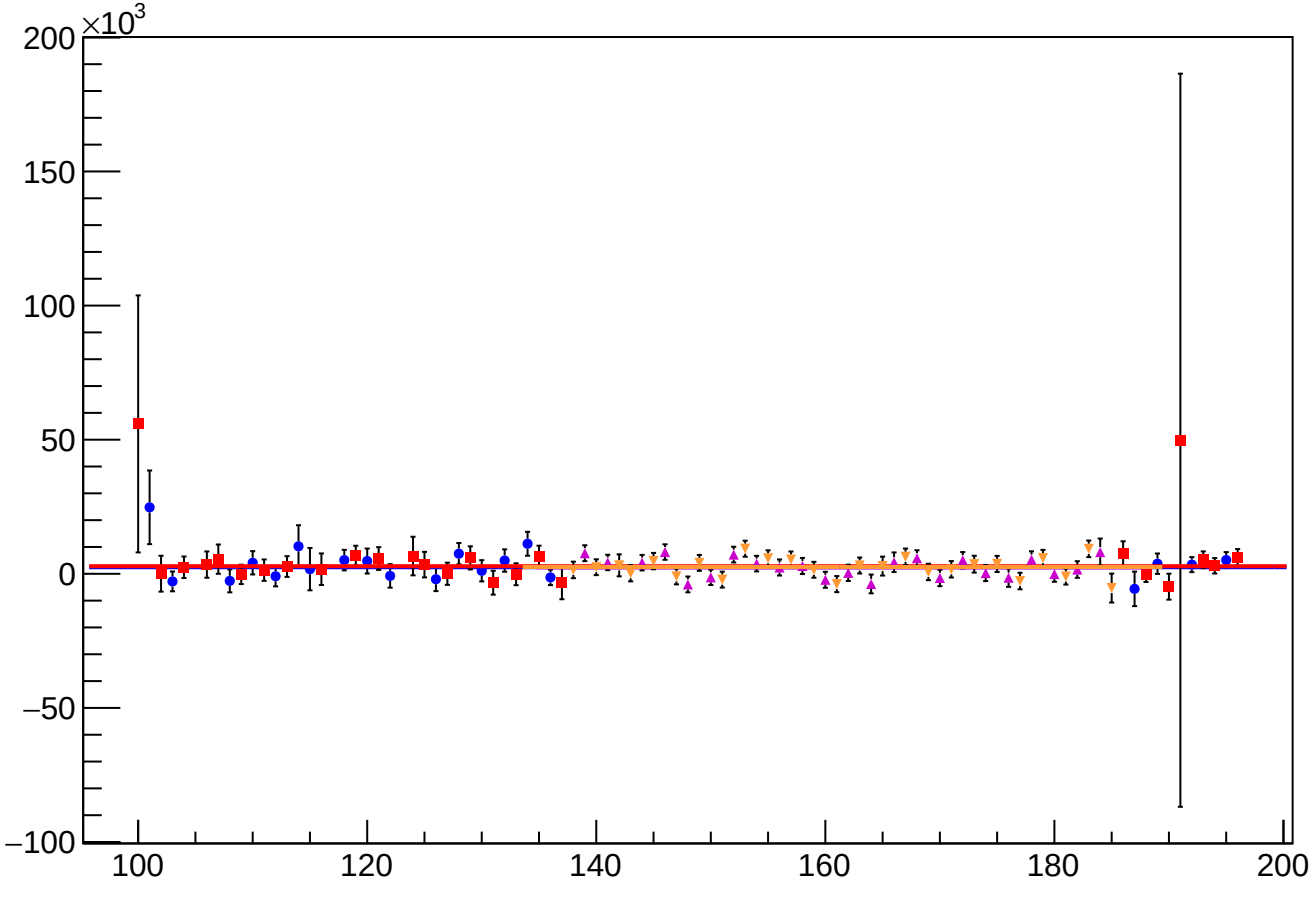
Left: 789.329+/-0.093 $\chi^2$/NDF: 2242174.0/47

Right: 637.771+/-0.110 $\chi^2$/NDF: 9241266.9/45

In: 727.859+/-0.102 $\chi^2$/NDF:5447784.3/42

Out: 725.223+/-0.098 $\chi^2$/NDF:7145828.8/50

All: 726.485+/-0.071 $\chi^2$/NDF: 12593958.6/93




Right In: 2446.035+/-914.923 $\chi^2$/NDF: 20.6/19

Left Out: 2545.044+/-622.236 $\chi^2$/NDF:31.9/24

Right Out: 2827.382+/-834.599 $\chi^2$/NDF: 16.2/25

Left In: 2406.858+/-640.084 $\chi^2$/NDF:31.8/22

Left: 2477.904+/-446.164 $\chi^2$/NDF: 63.7/47

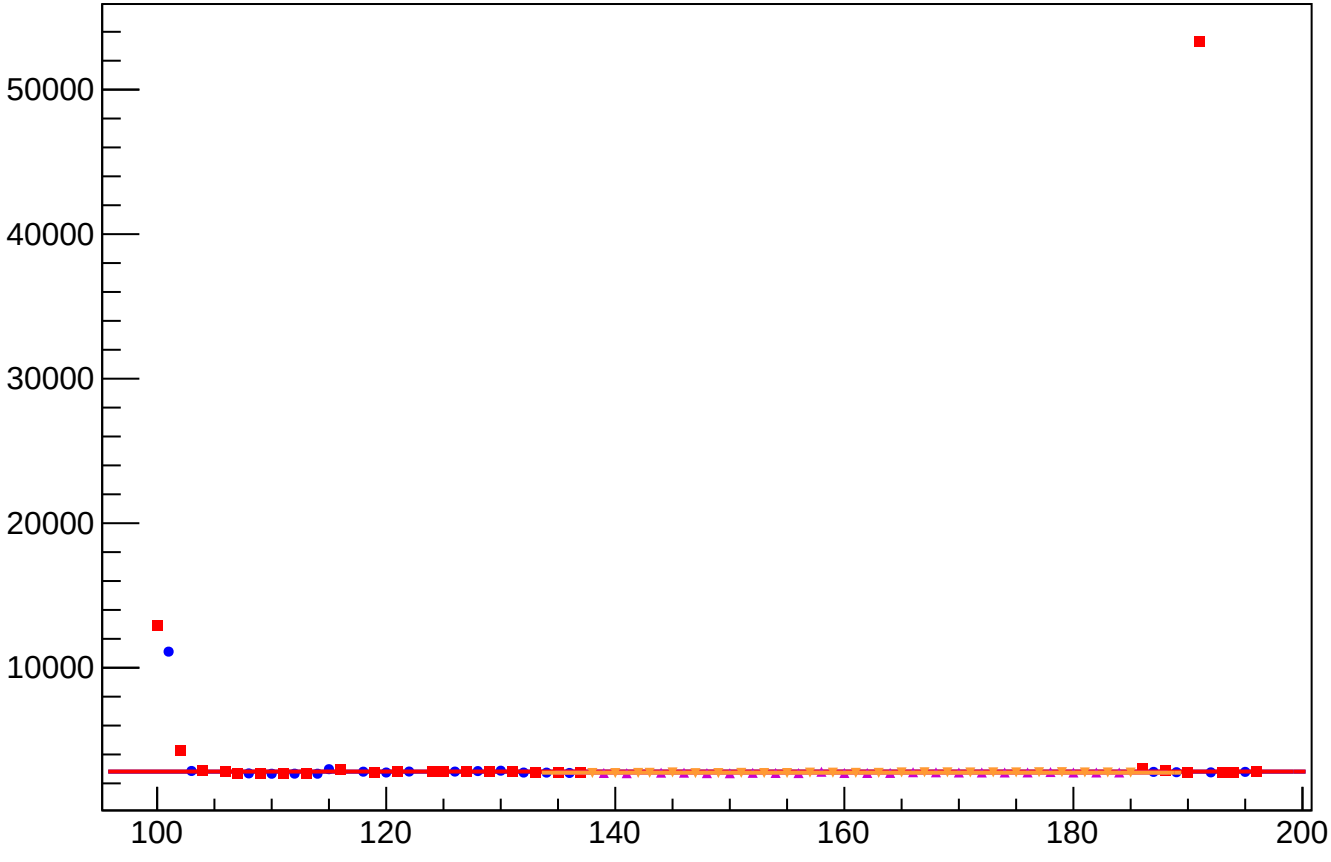
Right: 2654.180+/-616.596 $\chi^2$/NDF: 36.9/45

In: 2419.732+/-524.475 $\chi^2$/NDF:52.4/42

Out: 2645.913+/-498.852 $\chi^2$/NDF:48.1/50

All: 2538.482+/-361.461 $\chi^2$/NDF: 100.7/93

# eigen_dit_asym_atr1_rms vs Slug, Sign Corrected




Right In: 2810.750+/-0.647 $\chi^2$/NDF: 745066.1/19

Left Out: 2739.304+/-0.440 $\chi^2$/NDF:2322.3/24

Right Out: 2819.139+/-0.590 $\chi^2$/NDF: 531306.3/25

Left In: 2741.391+/-0.453 $\chi^2$/NDF:3369.6/22

Left: 2740.318+/-0.315 $\chi^2$/NDF: 5702.8/47

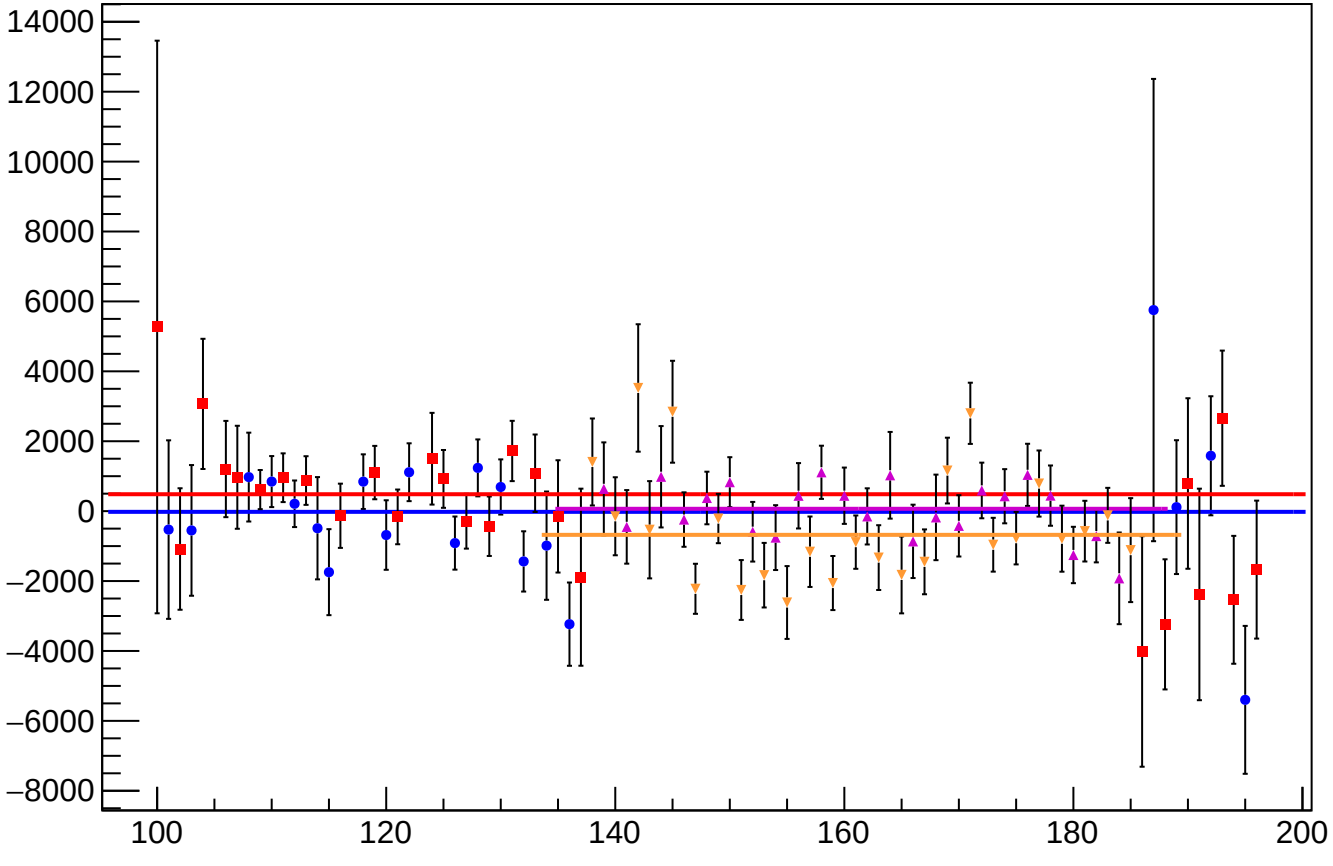
Right: 2815.329+/-0.436 $\chi^2$/NDF: 1276464.2/45

In: 2764.183+/-0.371 $\chi^2$/NDF:756152.6/42

Out: 2767.826+/-0.353 $\chi^2$/NDF:545391.1/50

All: 2766.096+/-0.256 $\chi^2$/NDF: 1301594.4/93

asym_atr1_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -20.005+/-231.875 $\chi^2$/NDF: 30.9/19

Left Out: -678.227+/-185.004 $\chi^2$/NDF:56.2/24

Right Out: 483.931+/-209.893 $\chi^2$/NDF: 24.4/25

Left In: 67.157+/-185.436 $\chi^2$/NDF:15.8/22

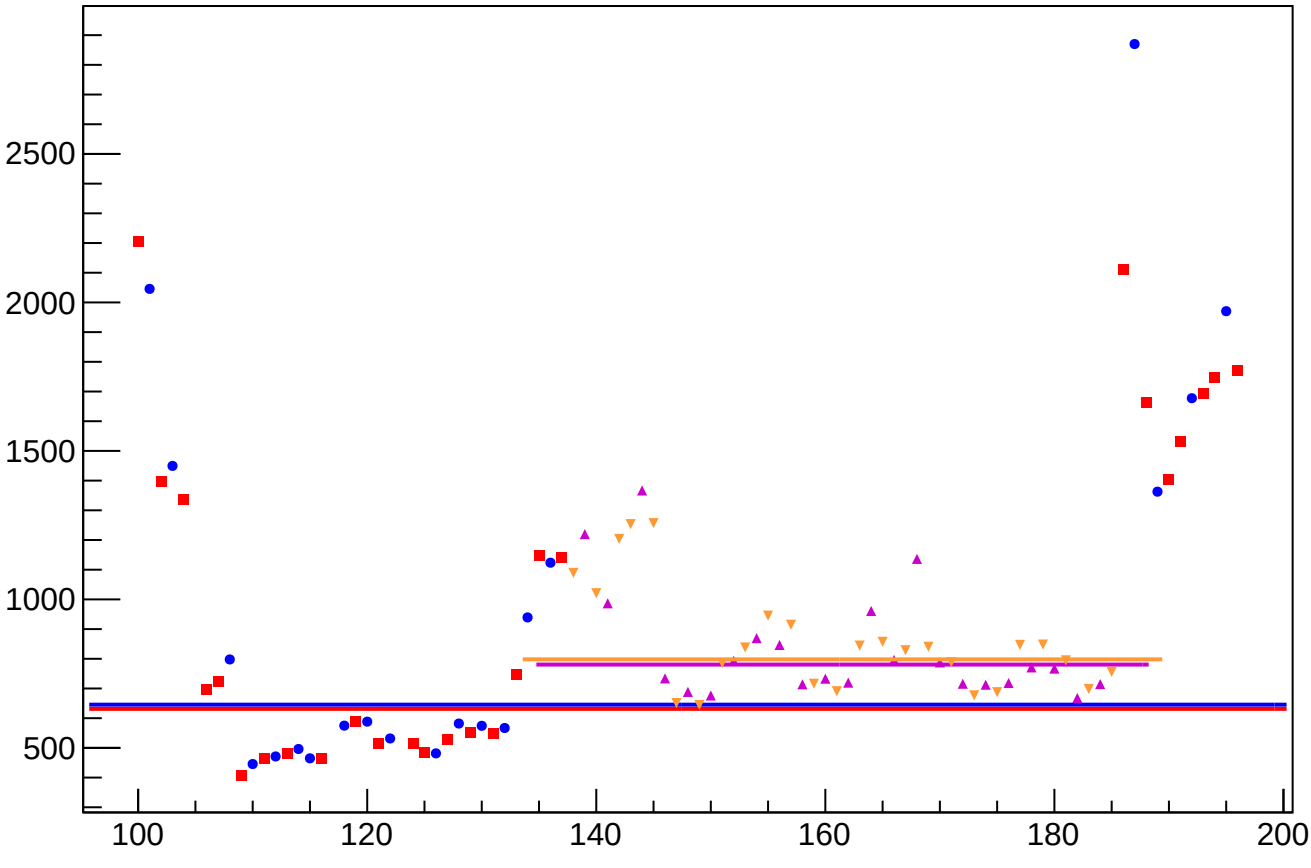
Left: -306.403+/-130.970 $\chi^2$/NDF: 80.1/47

Right: 256.976+/-155.609 $\chi^2$/NDF: 58.0/45

In: 33.157+/-144.821 $\chi^2$/NDF:46.9/42

Out: -170.105+/-138.787 $\chi^2$/NDF:97.9/50

All: -72.796+/-100.203 $\chi^2$/NDF: 145.8/93




Right In: 645.512+/-0.164 $\chi^2$/NDF: 3969376.0/19

Left Out: 798.092+/-0.131 $\chi^2$/NDF:1168353.9/24

Right Out: 631.430+/-0.148 $\chi^2$/NDF: 5267831.1/25

Left In: 780.525+/-0.131 $\chi^2$/NDF:1064830.7/22

Left: 789.329+/-0.093 $\chi^2$/NDF: 2242179.2/47

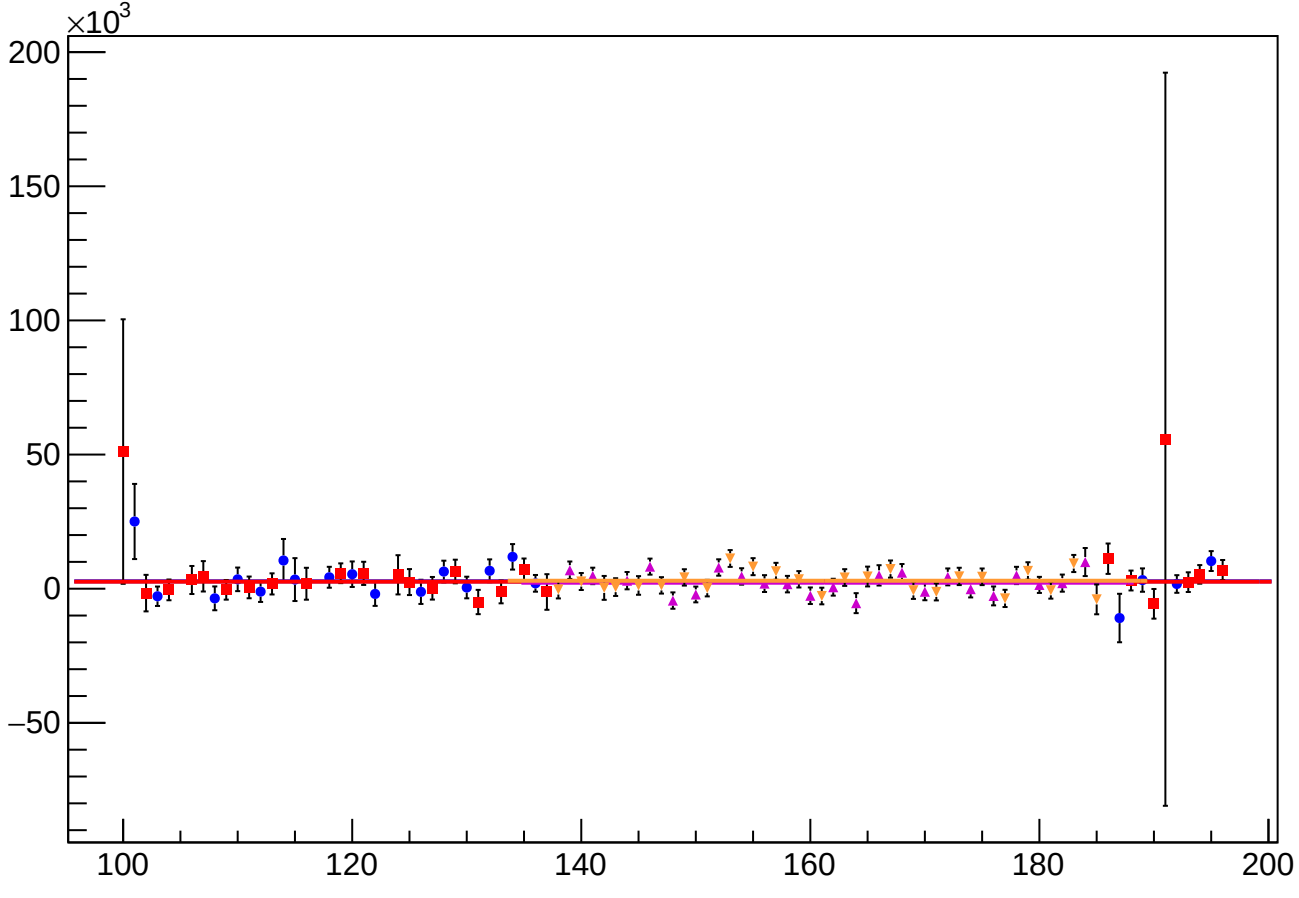
Right: 637.772+/-0.110 $\chi^2$/NDF: 9241261.5/45

In: 727.859+/-0.102 $\chi^2$/NDF:5447778.3/42

Out: 725.223+/-0.098 $\chi^2$/NDF:7145829.7/50

All: 726.485+/-0.071 $\chi^2$/NDF: 12593953.4/93

# asym_atr1_mean vs Slug, Sign Corrected




Right In: 2752.963+/-977.067 $\chi^2$/NDF: 23.5/19

Left Out: 2969.337+/-653.286 $\chi^2$/NDF:35.7/24

Right Out: 2626.527+/-901.415 $\chi^2$/NDF: 17.3/25

Left In: 2237.495+/-670.327 $\chi^2$/NDF:33.8/22

Left: 2612.837+/-467.852 $\chi^2$/NDF: 70.1/47

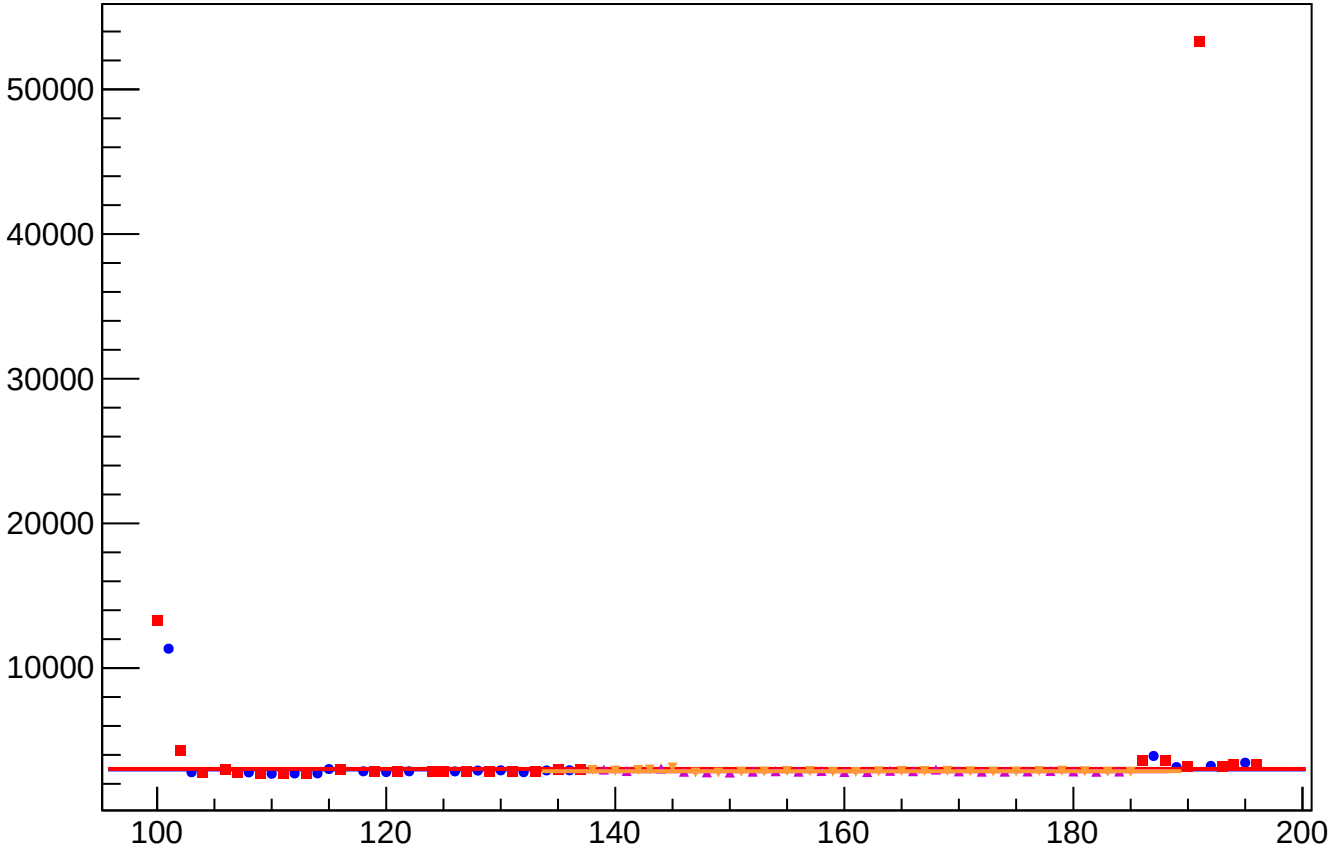
Right: 2684.661+/-662.530 $\chi^2$/NDF: 40.8/45

In: 2402.467+/-552.749 $\chi^2$/NDF:57.5/42

Out: 2851.285+/-528.974 $\chi^2$/NDF:53.1/50

All: 2636.735+/-382.170 $\chi^2$/NDF: 110.9/93

# asym_atr1_rms vs Slug, Sign Corrected




Right In: 2993.950+/-0.691 $\chi^2$/NDF: 823494.5/19

Left Out: 2874.933+/-0.462 $\chi^2$/NDF:21788.8/24

Right Out: 3030.072+/-0.637 $\chi^2$/NDF: 659255.7/25

Left In: 2870.153+/-0.474 $\chi^2$/NDF:17687.5/22

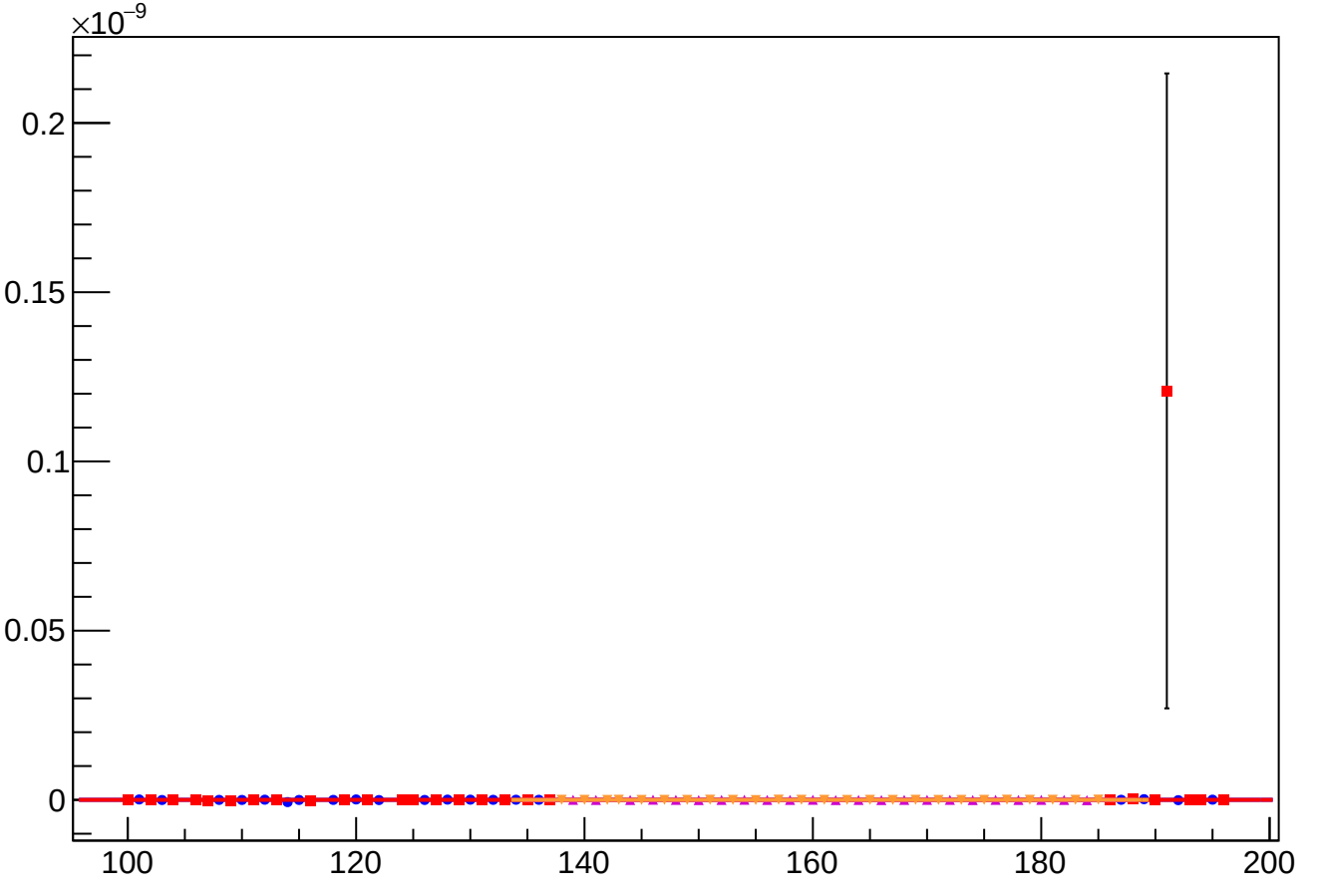
Left: 2872.605+/-0.331 $\chi^2$/NDF: 39528.5/47

Right: 3013.463+/-0.468 $\chi^2$/NDF: 1484226.9/45

In: 2909.773+/-0.391 $\chi^2$/NDF:863013.4/42

Out: 2928.358+/-0.374 $\chi^2$/NDF:719884.9/50

All: 2919.474+/-0.270 $\chi^2$/NDF: 1584078.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.9/22

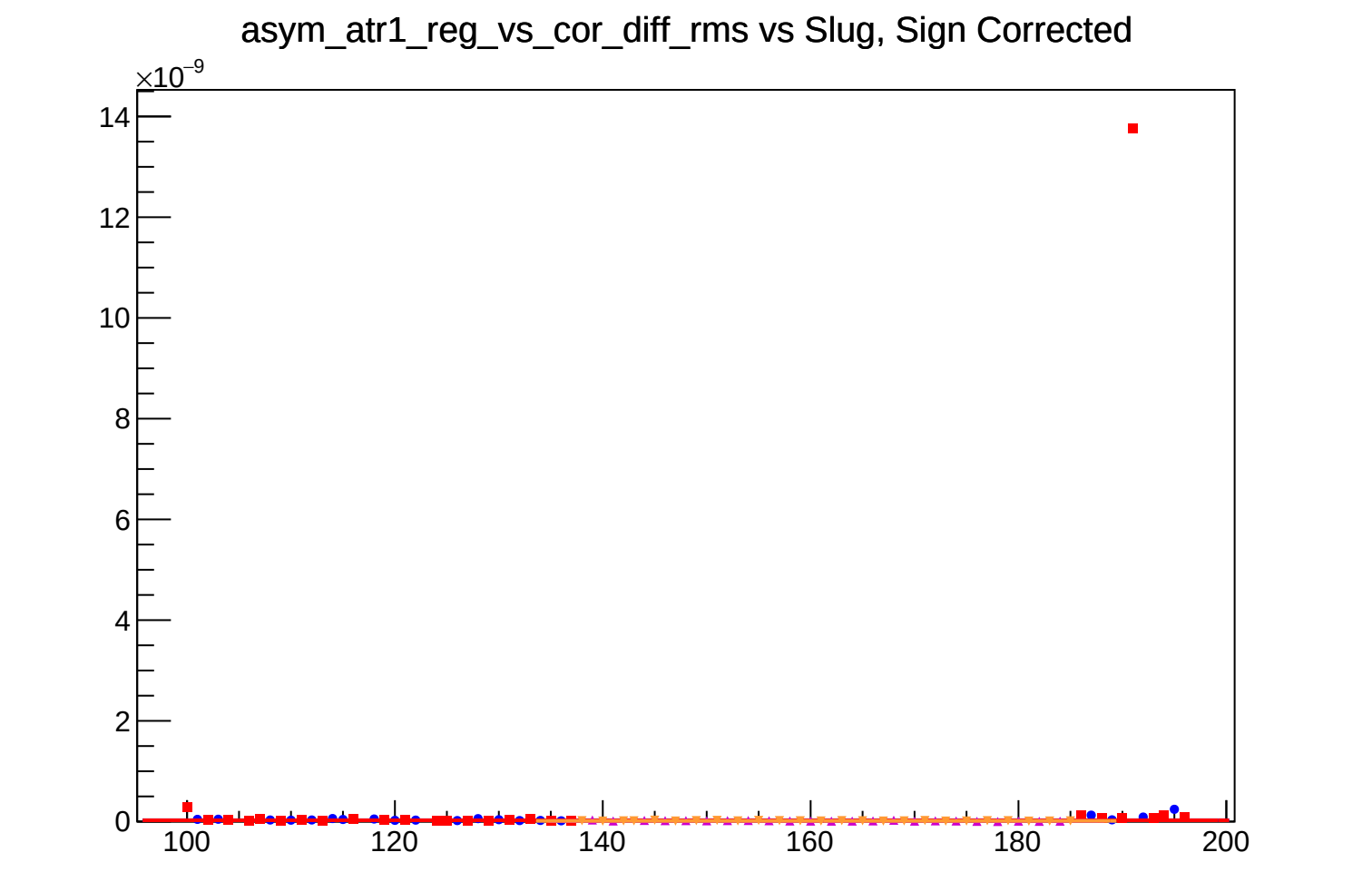
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 45.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:45.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:44.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 90.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2004695.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1210269.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2264586.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3166775.9/22

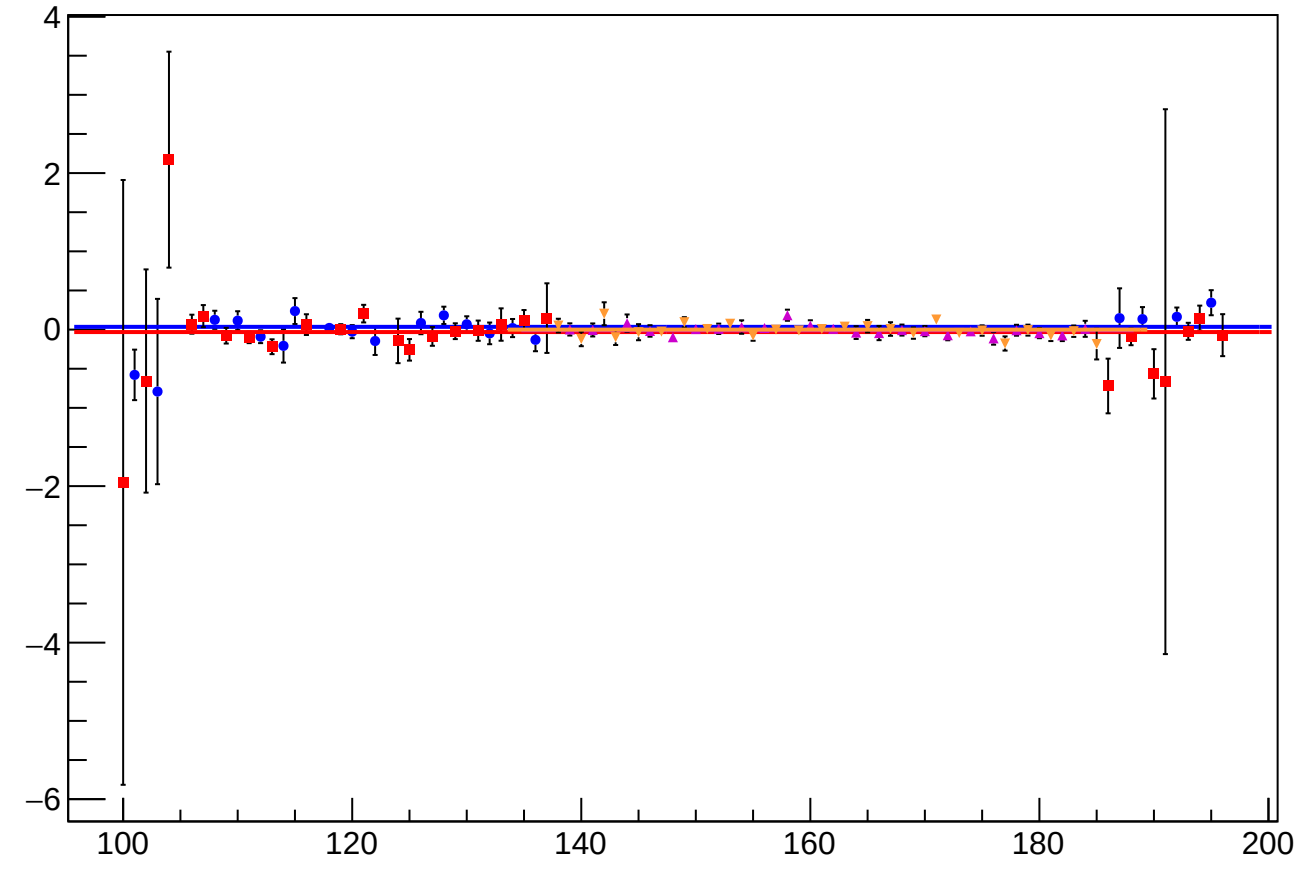
Left: 0.000+/-0.000 $\chi^2$/NDF: 4622592.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 4278451.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:7011211.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:4634317.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 11914828.4/93




Right In: 0.035+/-0.026 $\chi^2$/NDF: 20.9/19

Left Out: -0.000+/-0.014 $\chi^2$/NDF:22.6/24

Right Out: -0.031+/-0.026 $\chi^2$/NDF: 29.3/25

Left In: -0.008+/-0.015 $\chi^2$/NDF:15.5/22

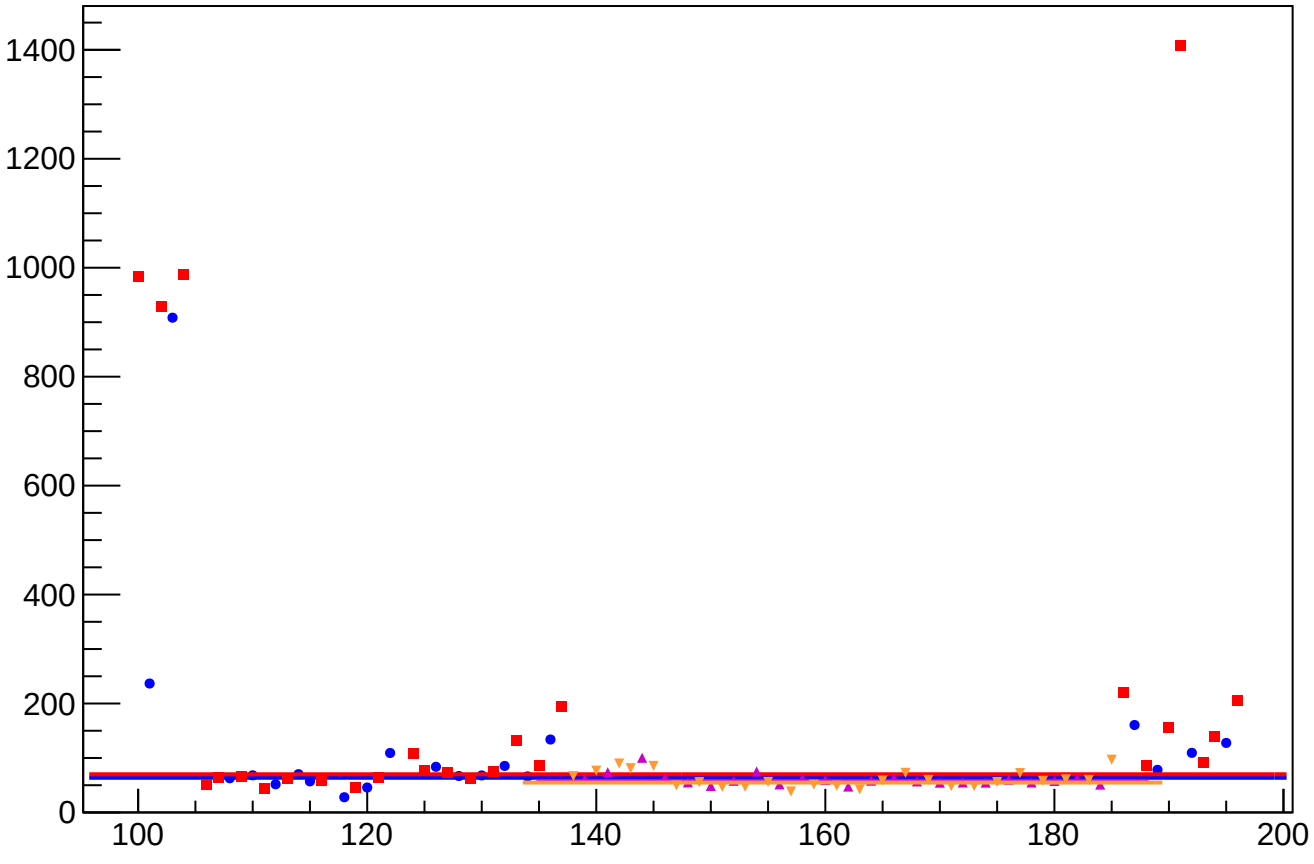
Left: -0.004+/-0.010 $\chi^2$/NDF: 38.2/47

Right: 0.001+/-0.018 $\chi^2$/NDF: 53.5/45

In: 0.002+/-0.013 $\chi^2$/NDF:38.5/42

Out: -0.008+/-0.012 $\chi^2$/NDF:53.0/50

All: -0.003+/-0.009 $\chi^2$/NDF: 91.8/93




Right In: 63.741+/-0.019 $\chi^2$/NDF: 4097269.0/19

Left Out: 54.931+/-0.010 $\chi^2$/NDF:1297647.2/24

Right Out: 70.109+/-0.018 $\chi^2$/NDF: 4609957.7/25

Left In: 58.138+/-0.010 $\chi^2$/NDF:657436.9/22

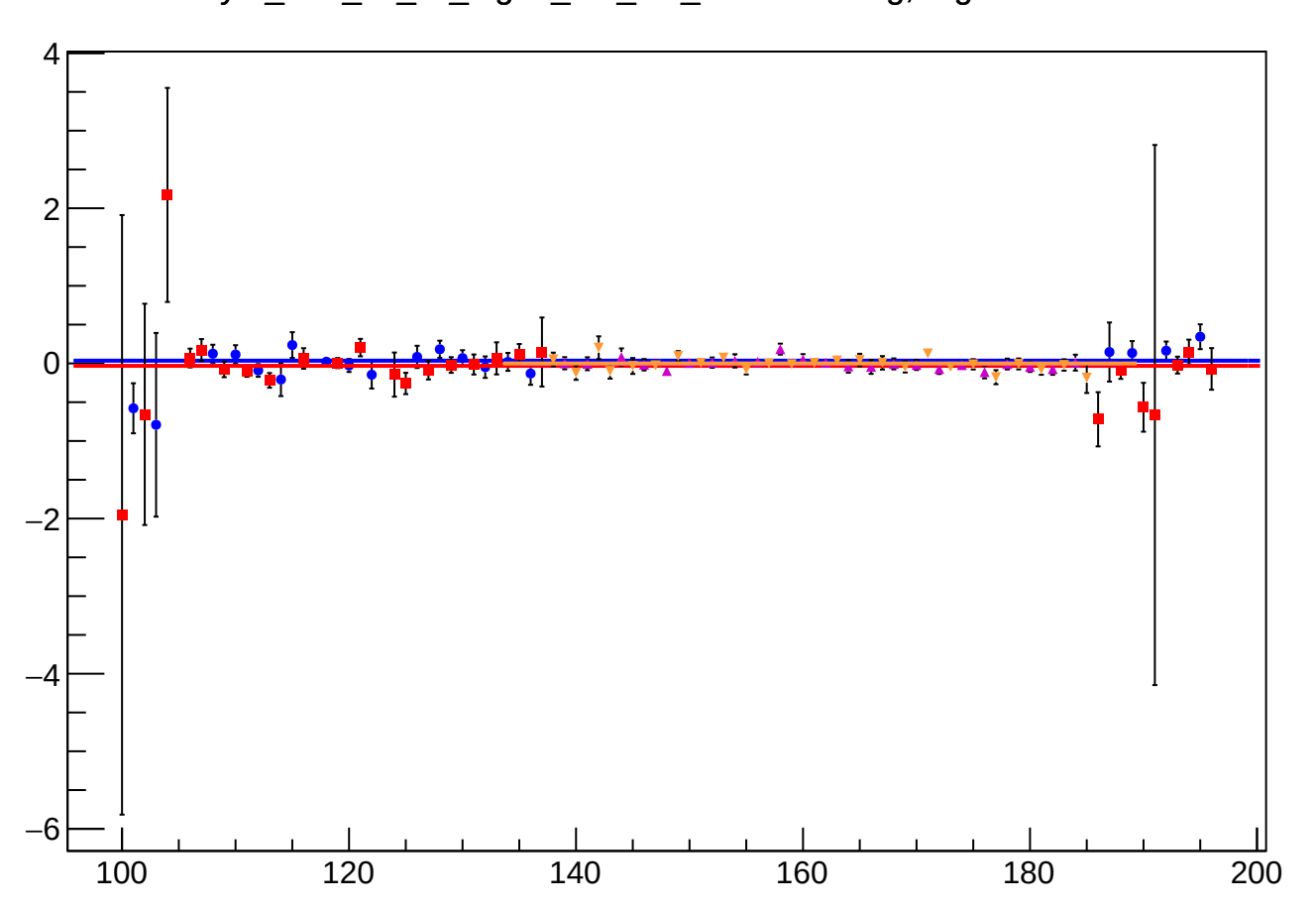
Left: 56.452+/-0.007 $\chi^2$/NDF: 2004214.4/47

Right: 66.996+/-0.013 $\chi^2$/NDF: 8767341.7/45

In: 59.494+/-0.009 $\chi^2$/NDF:4823744.5/42

Out: 58.445+/-0.009 $\chi^2$/NDF:6444628.9/50

All: 58.946+/-0.006 $\chi^2$/NDF: 11275258.4/93




Right In: 0.035+/-0.026 $\chi^2$/NDF: 20.9/19

Left Out: -0.000+/-0.014 $\chi^2$/NDF:22.6/24

Right Out: -0.031+/-0.026 $\chi^2$/NDF: 29.3/25

Left In: -0.008+/-0.015 $\chi^2$/NDF:15.5/22

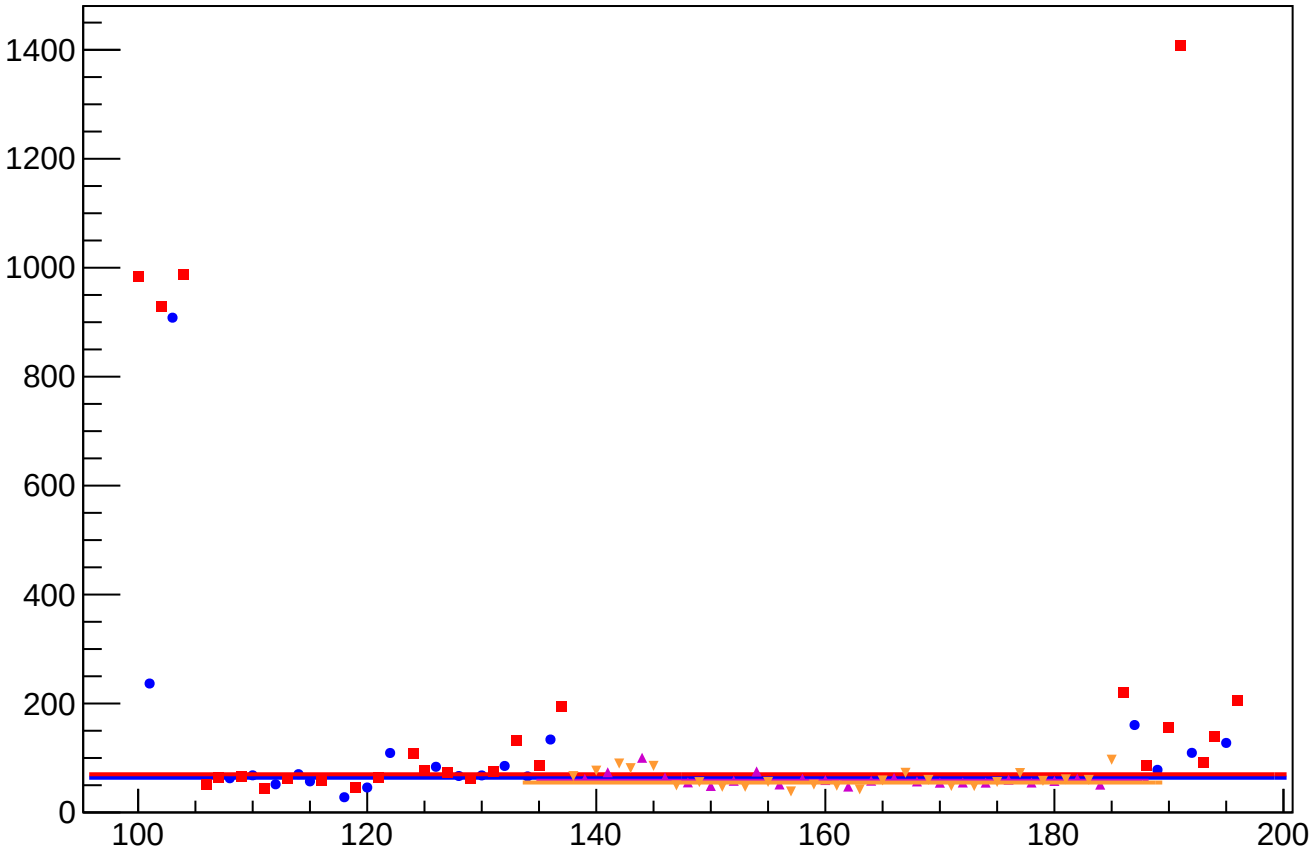
Left: -0.004+/-0.010 $\chi^2$/NDF: 38.2/47

Right: 0.001+/-0.018 $\chi^2$/NDF: 53.5/45

In: 0.002+/-0.013 $\chi^2$/NDF:38.5/42

Out: -0.008+/-0.012 $\chi^2$/NDF:53.0/50

All: -0.003+/-0.009 $\chi^2$/NDF: 91.8/93




Right In: 63.741+/-0.019 $\chi^2$/NDF: 4097269.0/19

Left Out: 54.931+/-0.010 $\chi^2$/NDF:1297647.2/24

Right Out: 70.109+/-0.018 $\chi^2$/NDF: 4609957.7/25

Left In: 58.138+/-0.010 $\chi^2$/NDF:657436.9/22

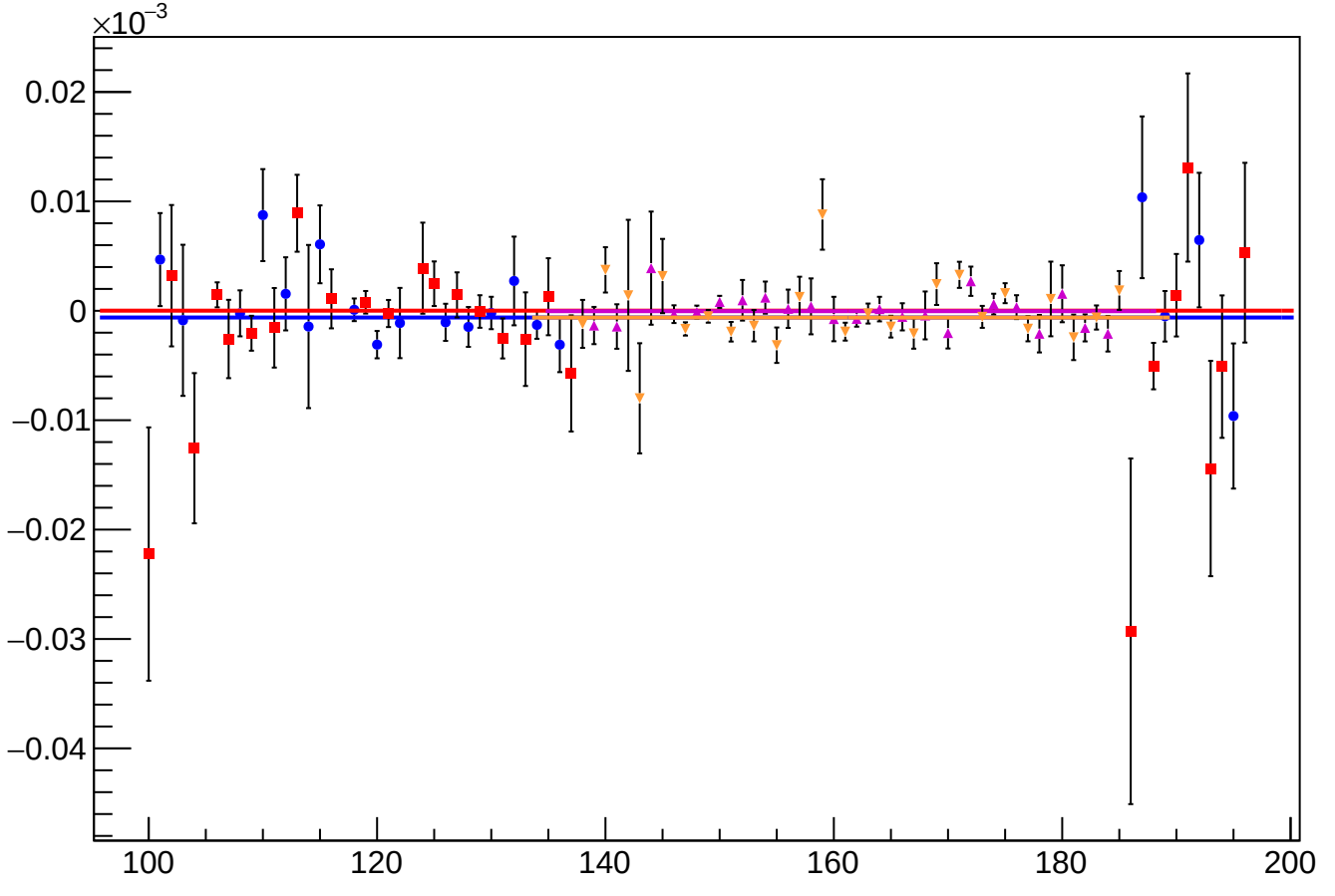
Left: 56.452+/-0.007 $\chi^2$/NDF: 2004214.4/47

Right: 66.996+/-0.013 $\chi^2$/NDF: 8767341.7/45

In: 59.494+/-0.009 $\chi^2$/NDF:4823744.5/42

Out: 58.445+/-0.009 $\chi^2$/NDF:6444628.9/50

All: 58.946+/-0.006 $\chi^2$/NDF: 11275258.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:52.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 39.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.2/22

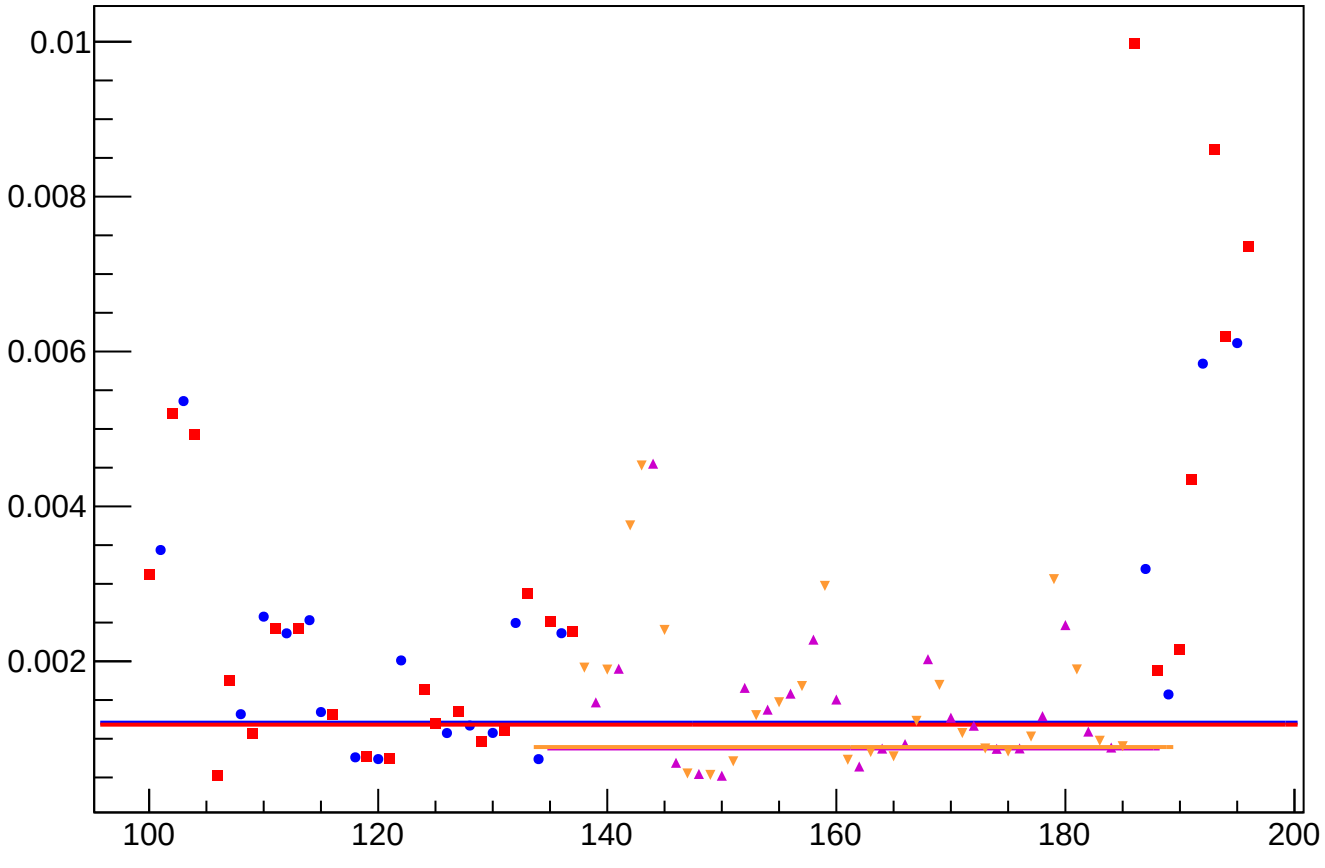
Left: -0.000+/-0.000 $\chi^2$/NDF: 74.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 63.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:42.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:94.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 137.3/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 5930400.3/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:7739119.9/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 8694228.1/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:6963716.3/22

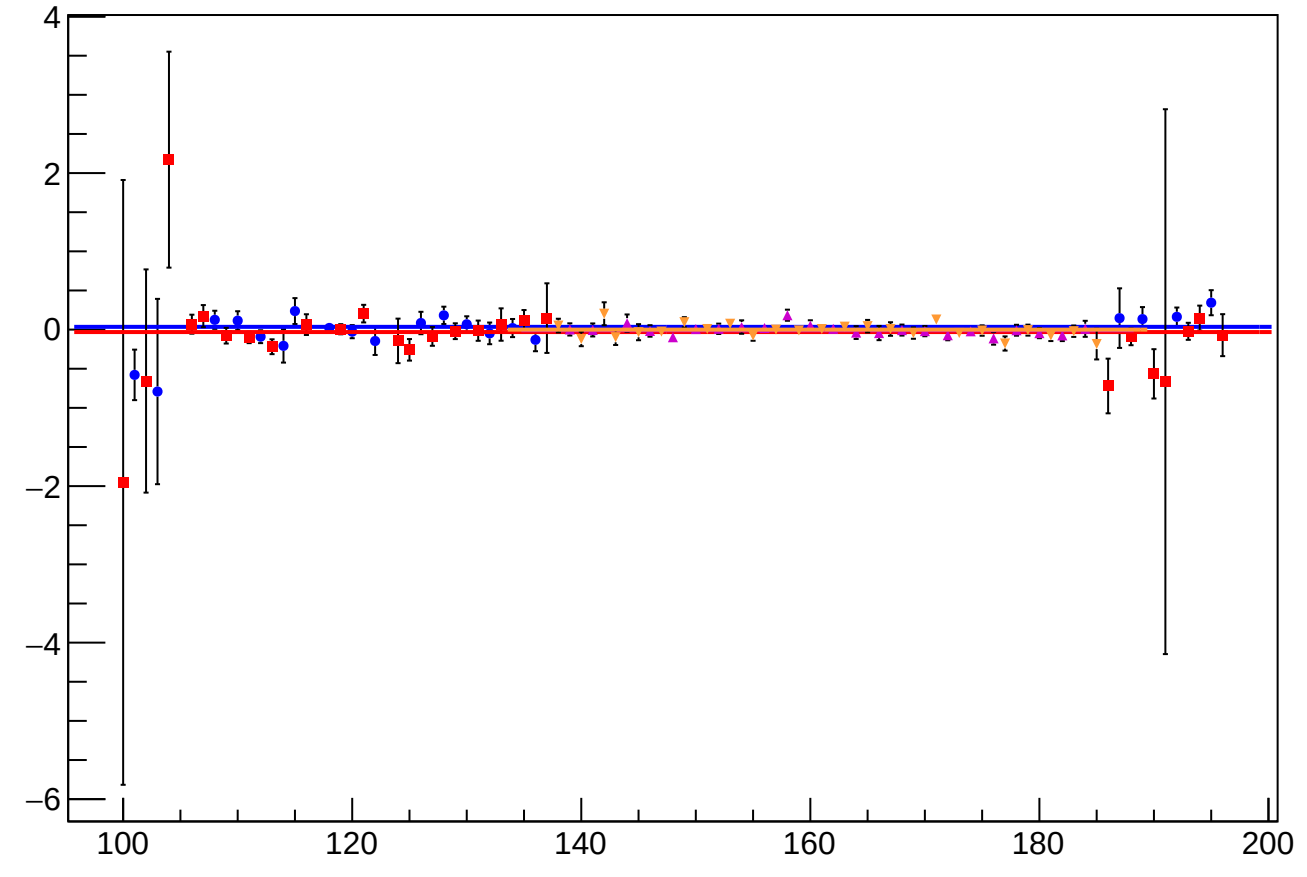
Left: 0.001+/-0.000 $\chi^2$/NDF: 14708860.3/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 14627674.0/45

In: 0.001+/-0.000 $\chi^2$/NDF:13680064.0/42

Out: 0.001+/-0.000 $\chi^2$/NDF:17090077.3/50

All: 0.001+/-0.000 $\chi^2$/NDF: 30774596.4/93




Right In: 0.035+/-0.026 $\chi^2$/NDF: 20.9/19

Left Out: -0.000+/-0.014 $\chi^2$/NDF:22.6/24

Right Out: -0.031+/-0.026 $\chi^2$/NDF: 29.3/25

Left In: -0.008+/-0.015 $\chi^2$/NDF:15.5/22

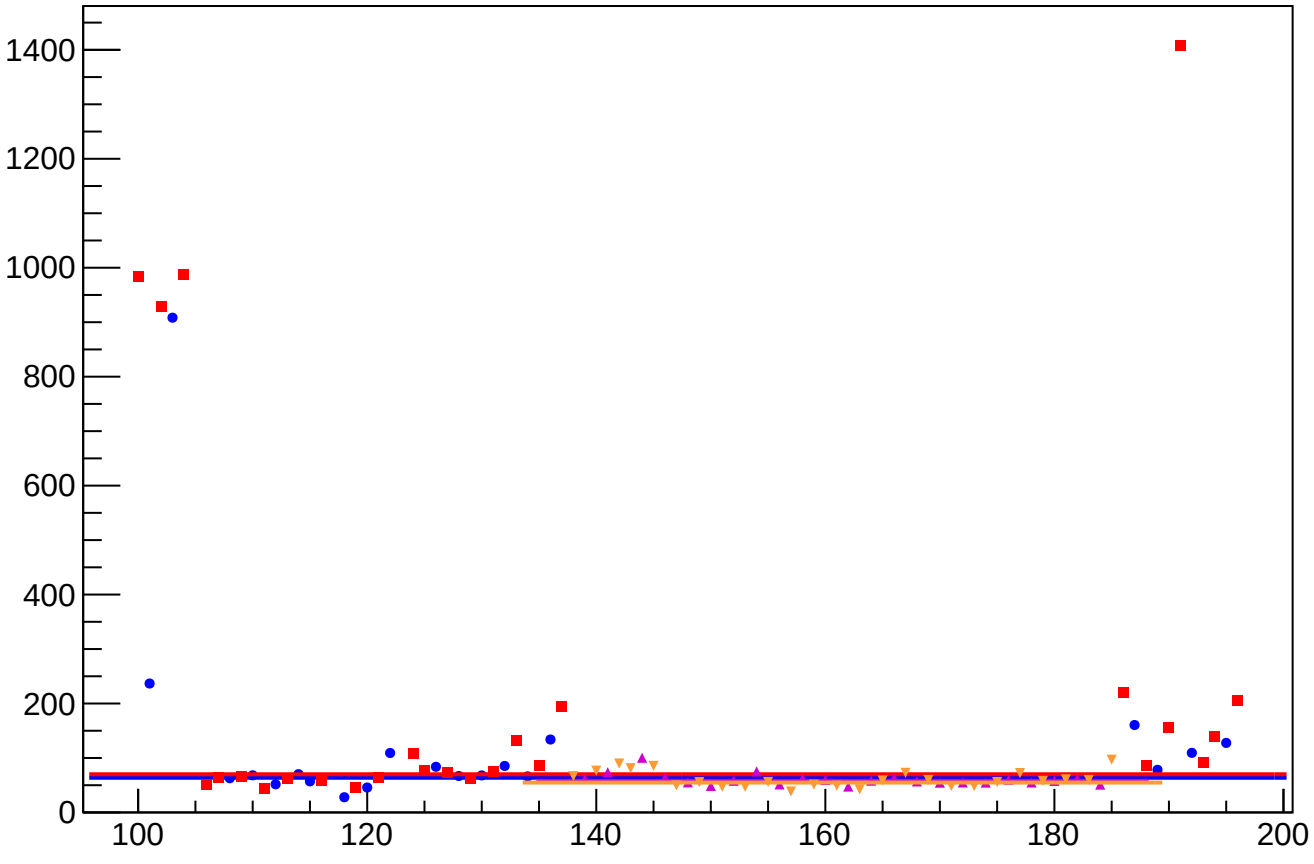
Left: -0.004+/-0.010 $\chi^2$/NDF: 38.2/47

Right: 0.001+/-0.018 $\chi^2$/NDF: 53.5/45

In: 0.002+/-0.013 $\chi^2$/NDF:38.5/42

Out: -0.008+/-0.012 $\chi^2$/NDF:53.0/50

All: -0.003+/-0.009 $\chi^2$/NDF: 91.8/93




Right In: 63.741+/-0.019 $\chi^2$/NDF: 4097361.1/19

Left Out: 54.930+/-0.010 $\chi^2$/NDF:1297722.9/24

Right Out: 70.109+/-0.018 $\chi^2$/NDF: 4609966.1/25

Left In: 58.138+/-0.010 $\chi^2$/NDF:657460.3/22

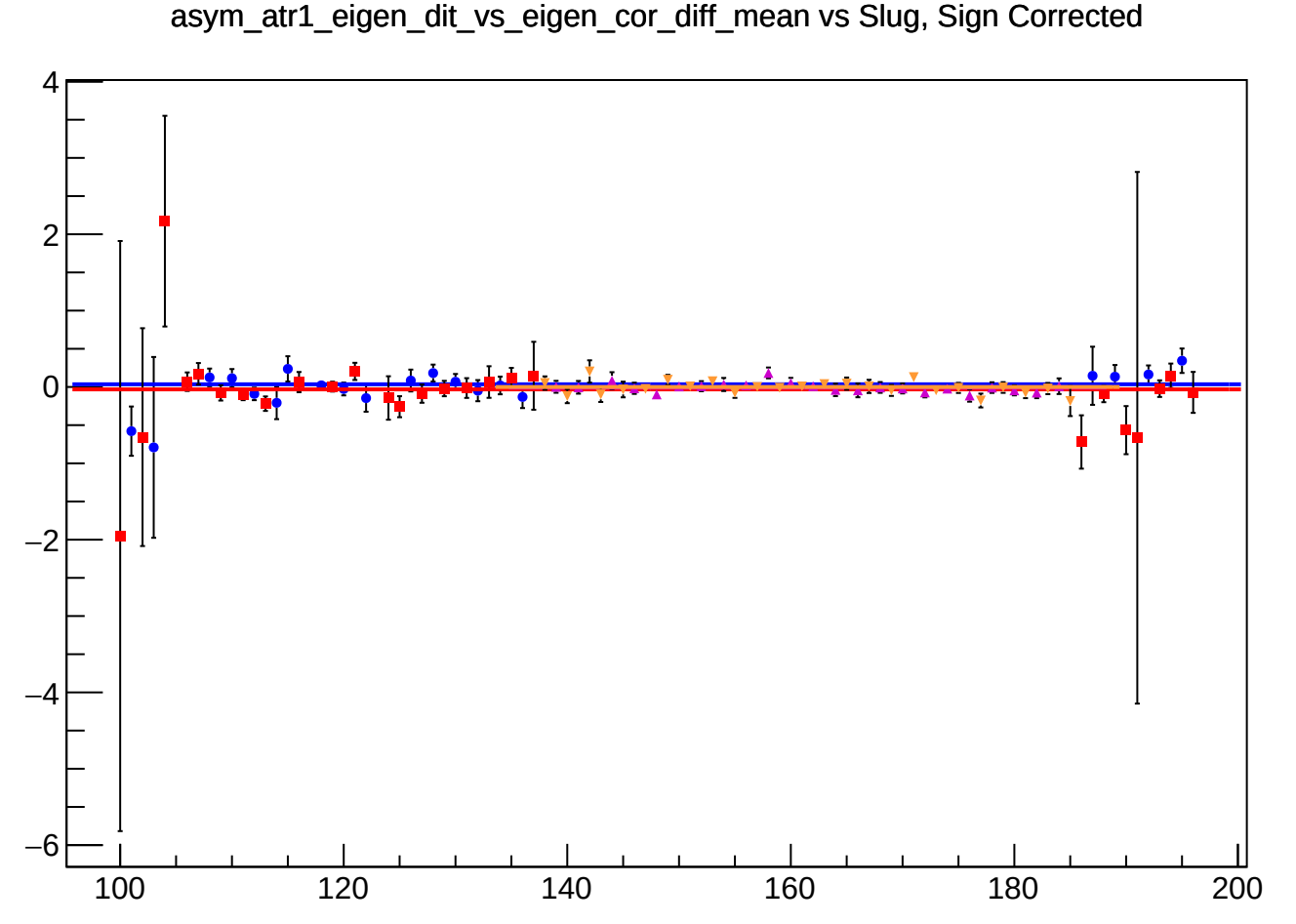
Left: 56.452+/-0.007 $\chi^2$/NDF: 2004328.0/47

Right: 66.996+/-0.013 $\chi^2$/NDF: 8767453.5/45

In: 59.494+/-0.009 $\chi^2$/NDF:4823838.6/42

Out: 58.445+/-0.009 $\chi^2$/NDF:6444725.6/50

All: 58.946+/-0.006 $\chi^2$/NDF: 11275452.3/93




Right In: 0.035+/-0.026 $\chi^2$/NDF: 20.9/19

Left Out: -0.000+/-0.014 $\chi^2$/NDF:22.6/24

Right Out: -0.031+/-0.026 $\chi^2$/NDF: 29.3/25

Left In: -0.008+/-0.015 $\chi^2$/NDF:15.5/22

Left: -0.004+/-0.010 $\chi^2$/NDF: 38.2/47

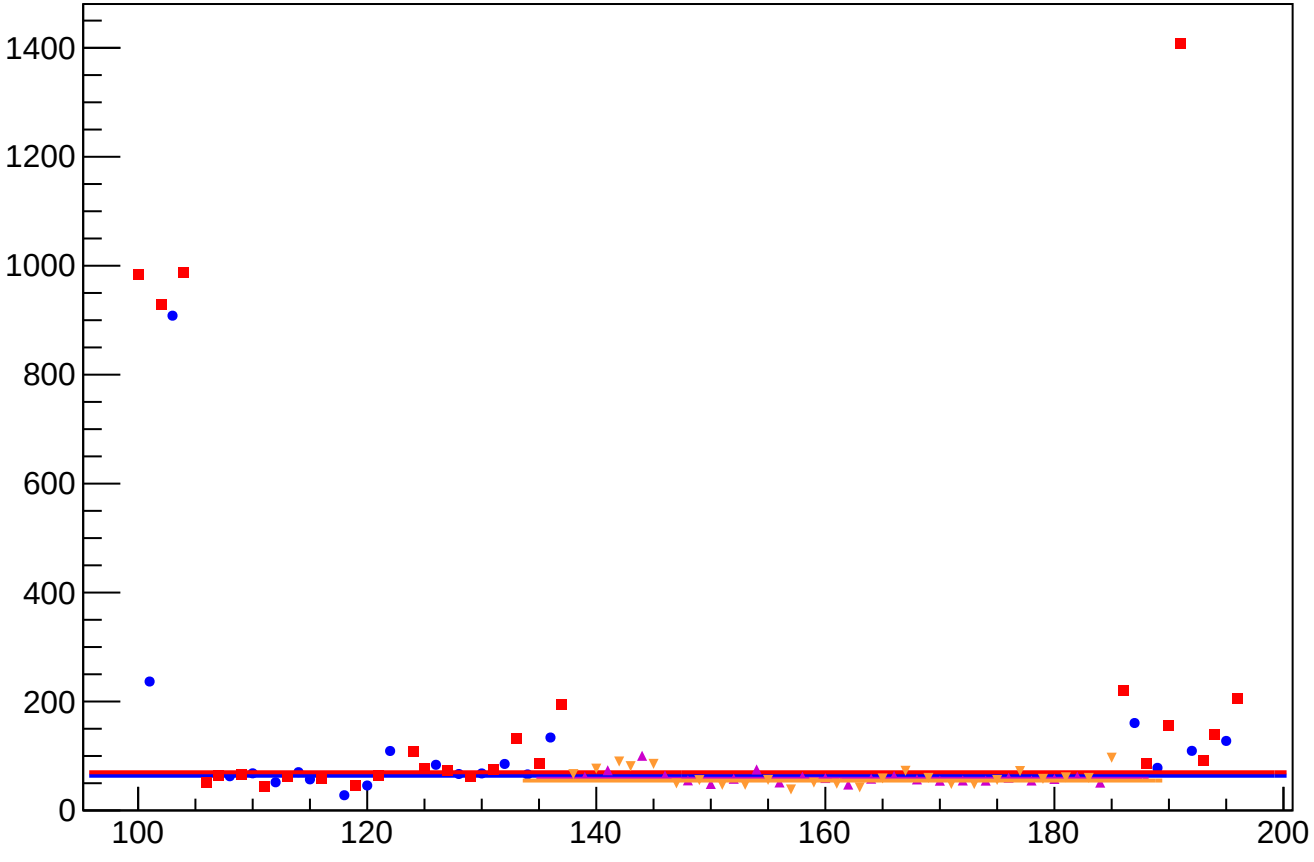
Right: 0.001+/-0.018 $\chi^2$/NDF: 53.5/45

In: 0.002+/-0.013 $\chi^2$/NDF:38.5/42

Out: -0.008+/-0.012 $\chi^2$/NDF:53.0/50

All: -0.003+/-0.009 $\chi^2$/NDF: 91.8/93

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 63.741+/-0.019 $\chi^2$/NDF: 4097361.1/19

Left Out: 54.930+/-0.010 $\chi^2$/NDF:1297722.9/24

Right Out: 70.109+/-0.018 $\chi^2$/NDF: 4609966.1/25

Left In: 58.138+/-0.010 $\chi^2$/NDF:657460.3/22

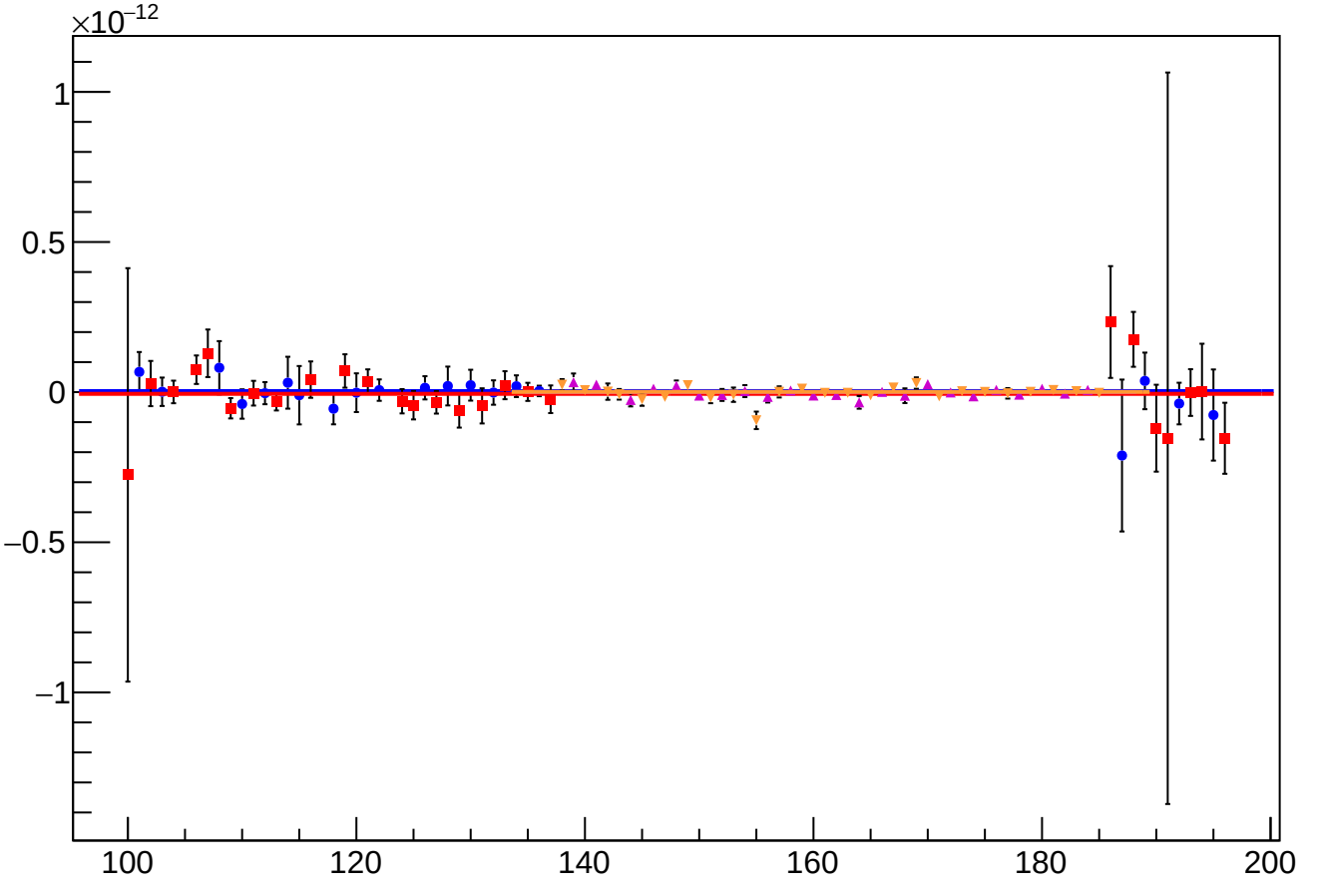
Left: 56.452+/-0.007 $\chi^2$/NDF: 2004328.0/47

Right: 66.996+/-0.013 $\chi^2$/NDF: 8767453.5/45

In: 59.494+/-0.009 $\chi^2$/NDF:4823838.6/42

Out: 58.445+/-0.009 $\chi^2$/NDF:6444725.6/50

All: 58.946+/-0.006 $\chi^2$/NDF: 11275452.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.2/22

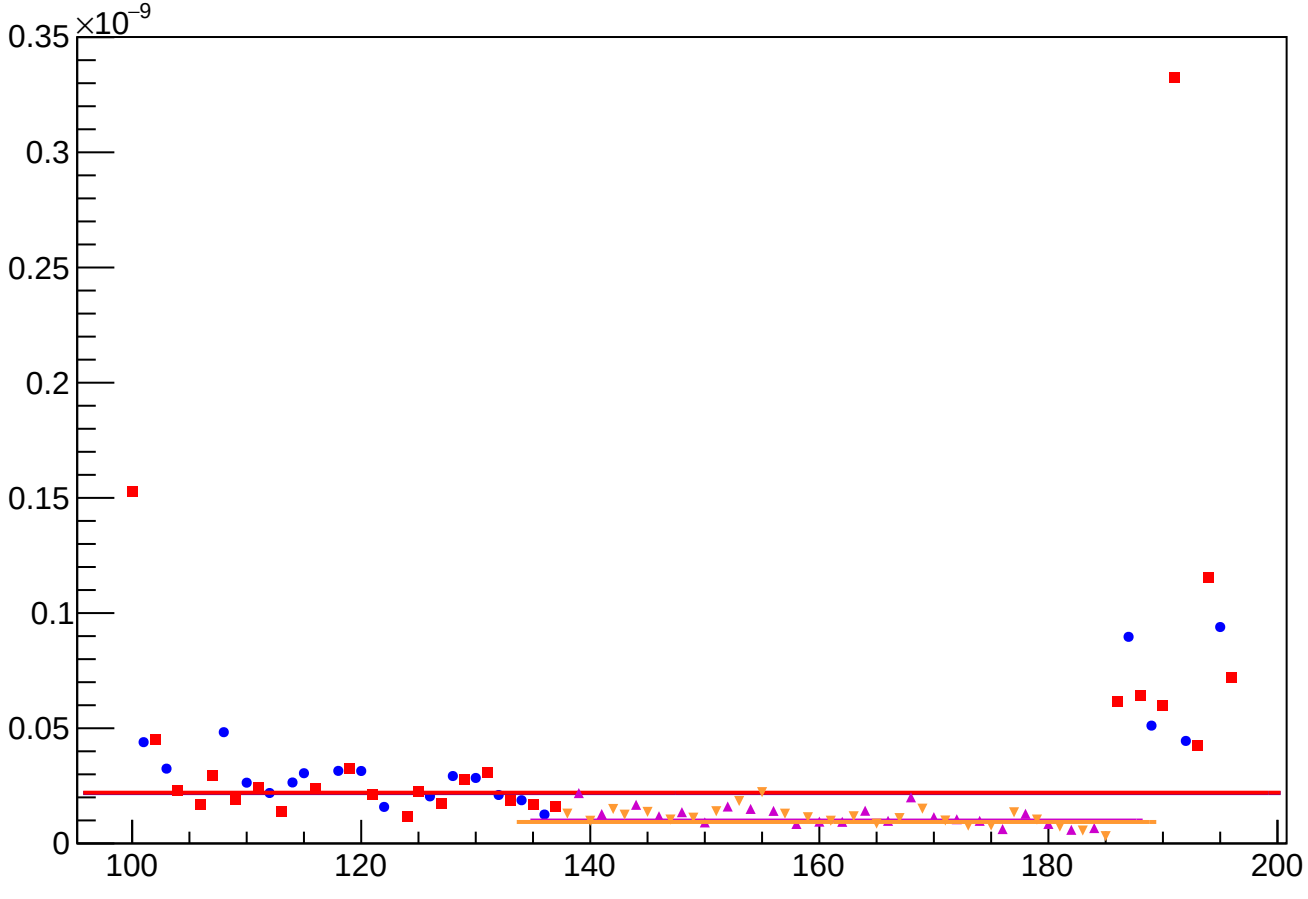
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:26.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:49.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 75.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2352410.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3070809.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2856429.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2573277.3/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5690216.6/47

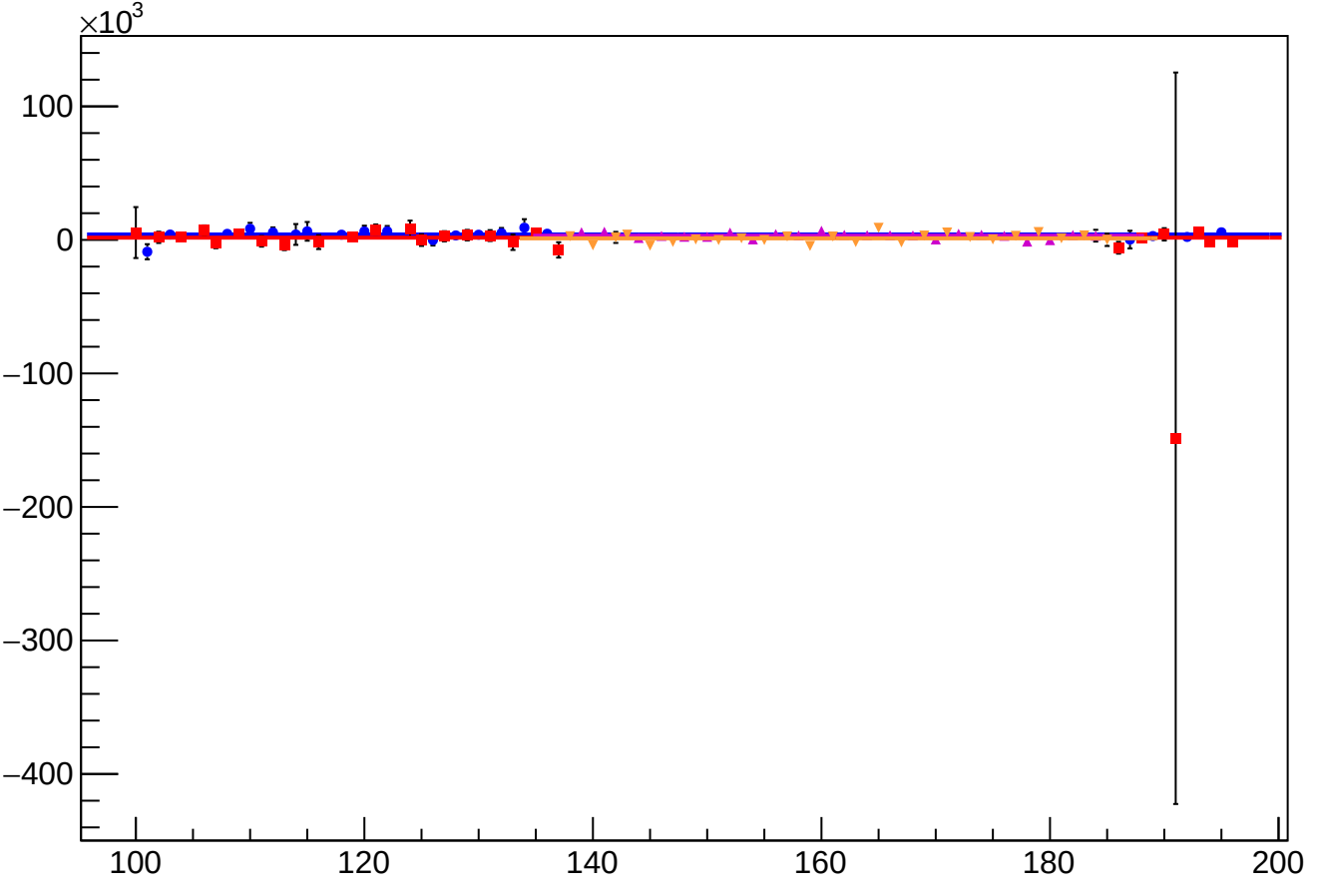
Right: 0.000+/-0.000 $\chi^2$/NDF: 5209130.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:7516191.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8995551.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16566260.5/93

# reg_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4070.474+/-836.553 $\chi^2$/NDF: 10.1/19

Left Out: 1188.836+/-556.242 $\chi^2$/NDF:31.1/24

Right Out: 1692.502+/-767.264 $\chi^2$/NDF: 22.8/25

Left In: 3147.419+/-569.221 $\chi^2$/NDF:12.7/22

Left: 2145.543+/-397.832 $\chi^2$/NDF: 49.9/47

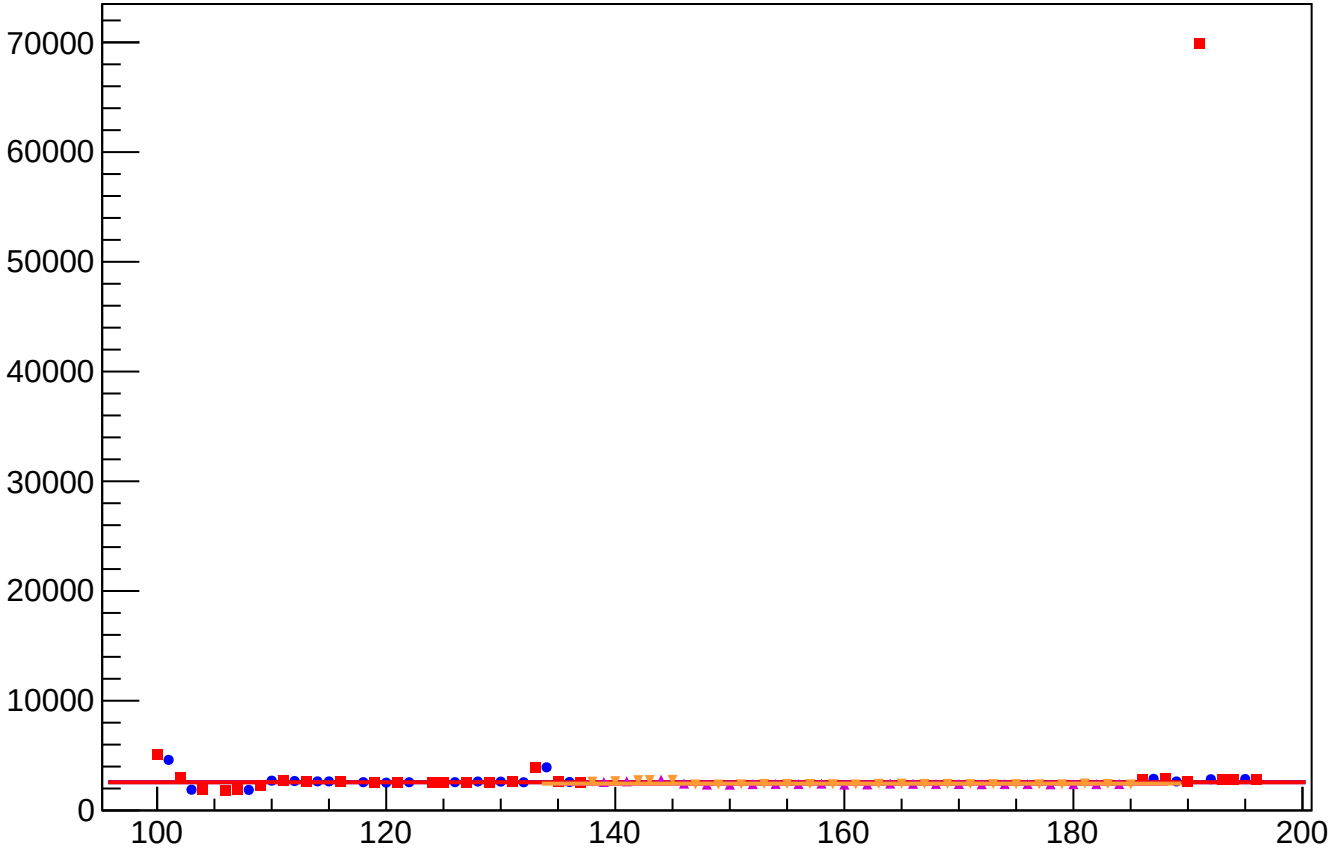
Right: 2778.945+/-565.449 $\chi^2$/NDF: 37.3/45

In: 3439.539+/-470.609 $\chi^2$/NDF:23.6/42

Out: 1362.354+/-450.346 $\chi^2$/NDF:54.2/50

All: 2355.267+/-325.370 $\chi^2$/NDF: 87.9/93

# reg_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2576.488+/-0.592 $\chi^2$/NDF: 661787.2/19

Left Out: 2445.826+/-0.393 $\chi^2$/NDF:90014.8/24

Right Out: 2569.196+/-0.543 $\chi^2$/NDF: 694024.6/25

Left In: 2435.950+/-0.403 $\chi^2$/NDF:59189.9/22

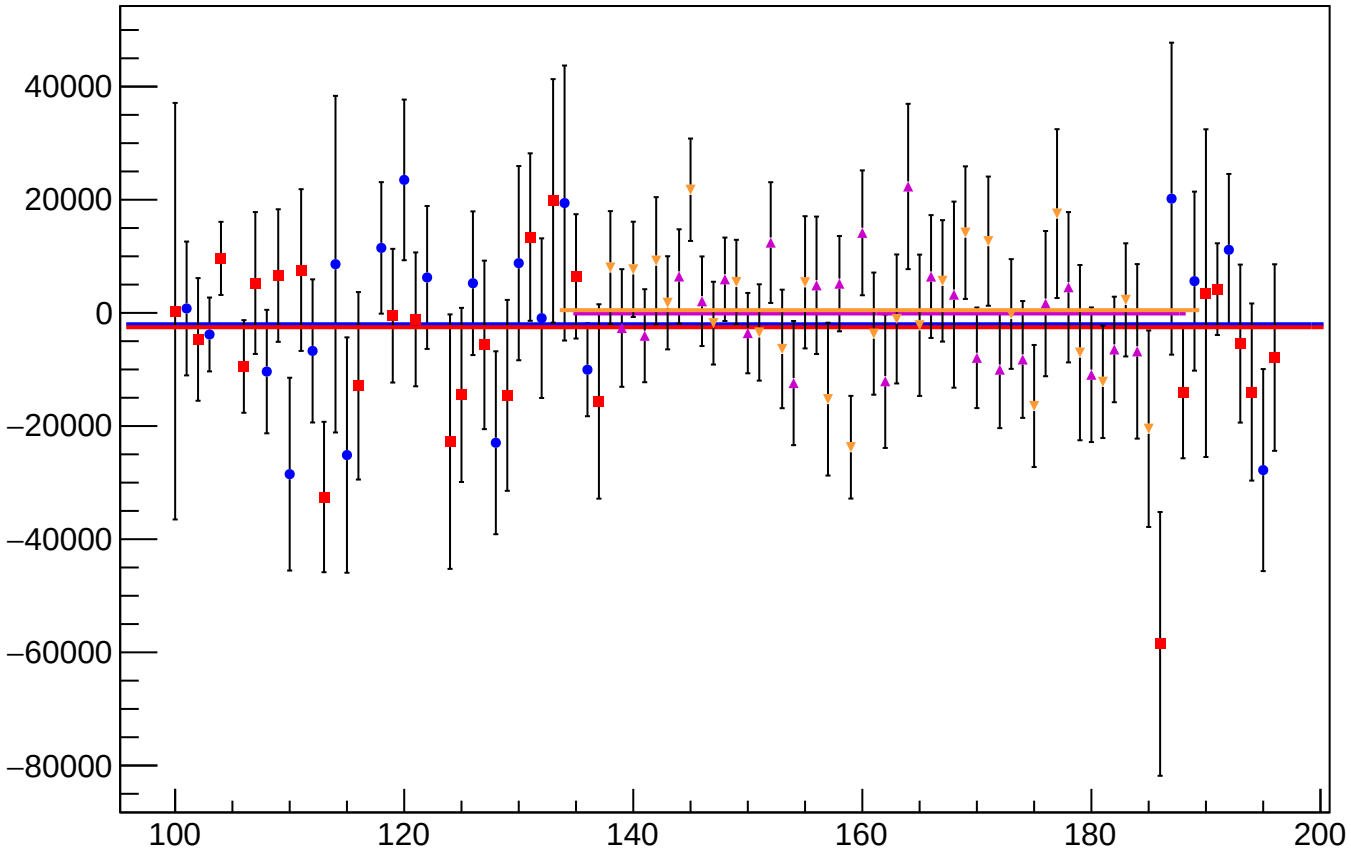
Left: 2441.002+/-0.281 $\chi^2$/NDF: 149512.6/47

Right: 2572.528+/-0.400 $\chi^2$/NDF: 1355894.3/45

In: 2480.426+/-0.333 $\chi^2$/NDF:759559.3/42

Out: 2488.328+/-0.318 $\chi^2$/NDF:817934.0/50

All: 2484.551+/-0.230 $\chi^2$/NDF: 1577787.7/93




Right In: -2009.660+/-2890.116 $\chi^2$/NDF: 17.7/19

Left Out: 477.187+/-2035.969 $\chi^2$/NDF:27.4/24

Right Out: -2534.775+/-2489.656 $\chi^2$/NDF: 24.9/25

Left In: -104.954+/-2090.899 $\chi^2$/NDF:14.5/22

Left: 193.864+/-1458.680 $\chi^2$/NDF: 41.9/47

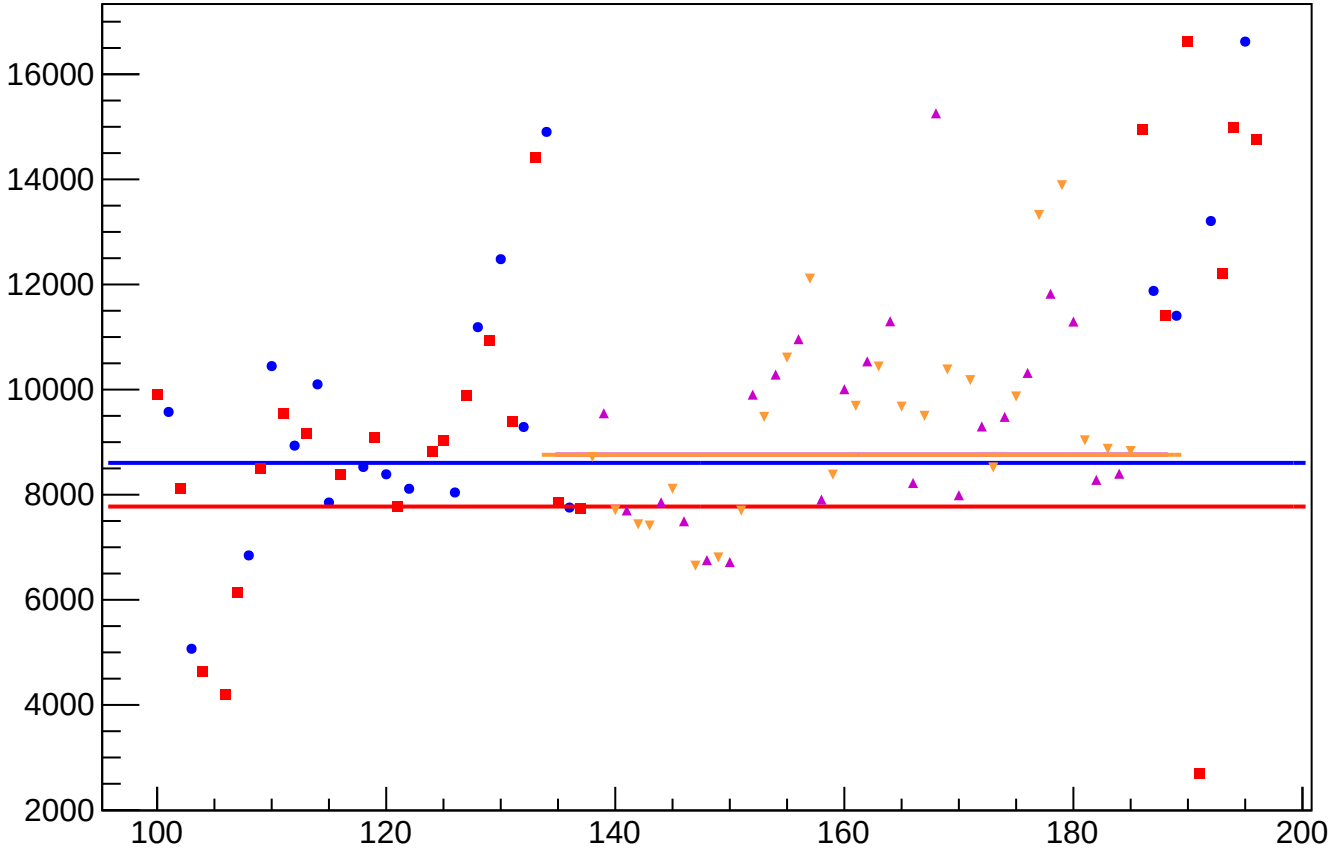
Right: -2311.091+/-1886.278 $\chi^2$/NDF: 42.7/45

In: -759.362+/-1694.048 $\chi^2$/NDF:32.5/42

Out: -729.854+/-1576.070 $\chi^2$/NDF:53.2/50

All: -743.545+/-1153.906 $\chi^2$/NDF: 85.7/93

# asym_atr2_reg_correction_rms vs Slug, Sign Corrected




Right In: 8605.652+/-2.044 $\chi^2$/NDF: 1735091.2/19

Left Out: 8759.635+/-1.440 $\chi^2$/NDF:1222238.0/24

Right Out: 7774.782+/-1.760 $\chi^2$/NDF: 3666740.8/25

Left In: 8764.138+/-1.478 $\chi^2$/NDF:1291698.9/22

Left: 8761.827+/-1.031 $\chi^2$/NDF: 2513941.7/47

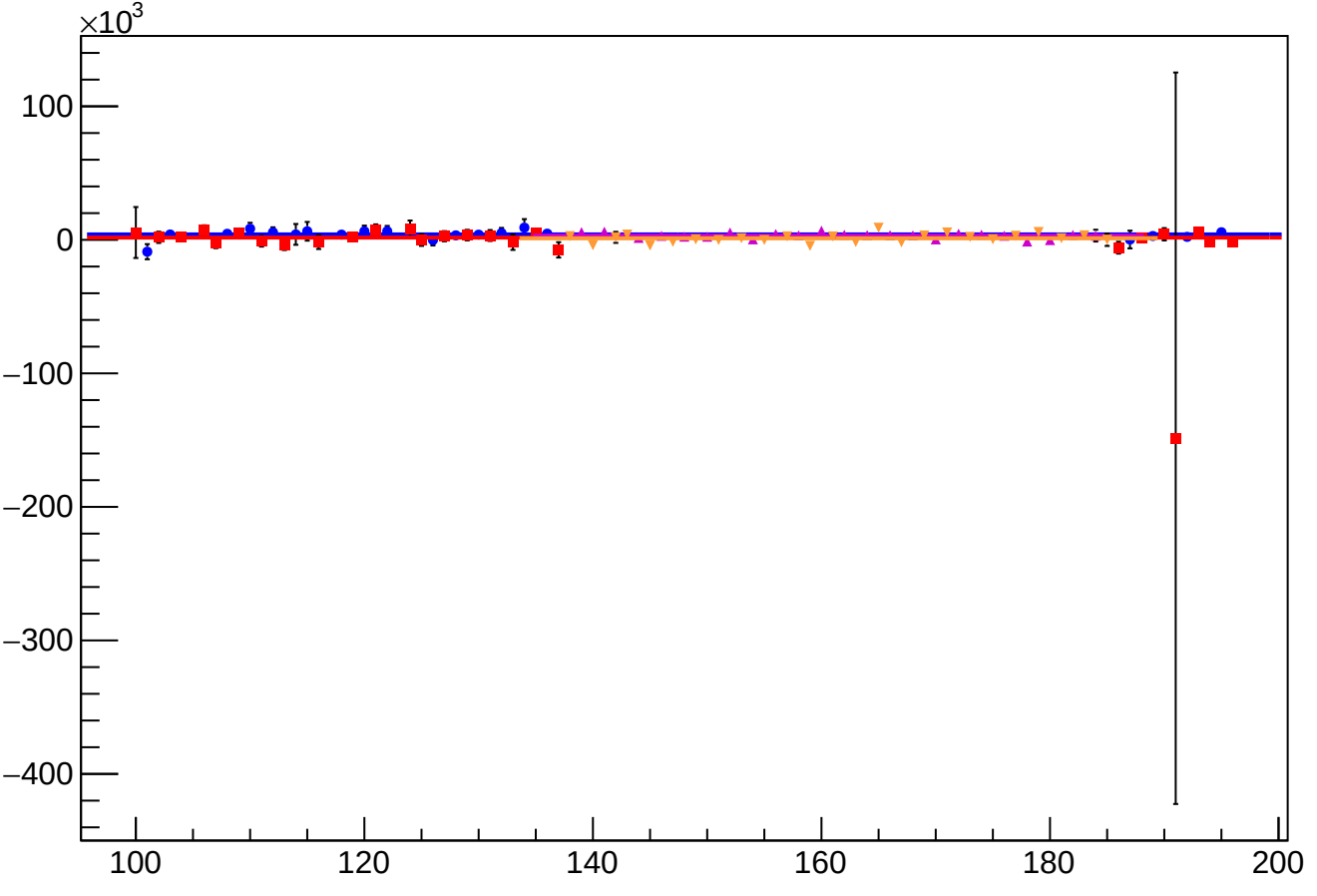
Right: 8128.709+/-1.334 $\chi^2$/NDF: 5496717.3/45

In: 8709.686+/-1.198 $\chi^2$/NDF:3030738.1/42

Out: 8364.955+/-1.114 $\chi^2$/NDF:5076523.0/50

All: 8524.900+/-0.816 $\chi^2$/NDF: 8151655.6/93

# cor_asym_atr2_mean vs Slug, Sign Corrected




Right In: 4070.157+/-836.553 $\chi^2$/NDF: 10.1/19

Left Out: 1188.666+/-556.242 $\chi^2$/NDF:31.1/24

Right Out: 1692.925+/-767.268 $\chi^2$/NDF: 22.8/25

Left In: 3147.222+/-569.221 $\chi^2$/NDF:12.7/22

Left: 2145.360+/-397.832 $\chi^2$/NDF: 49.9/47

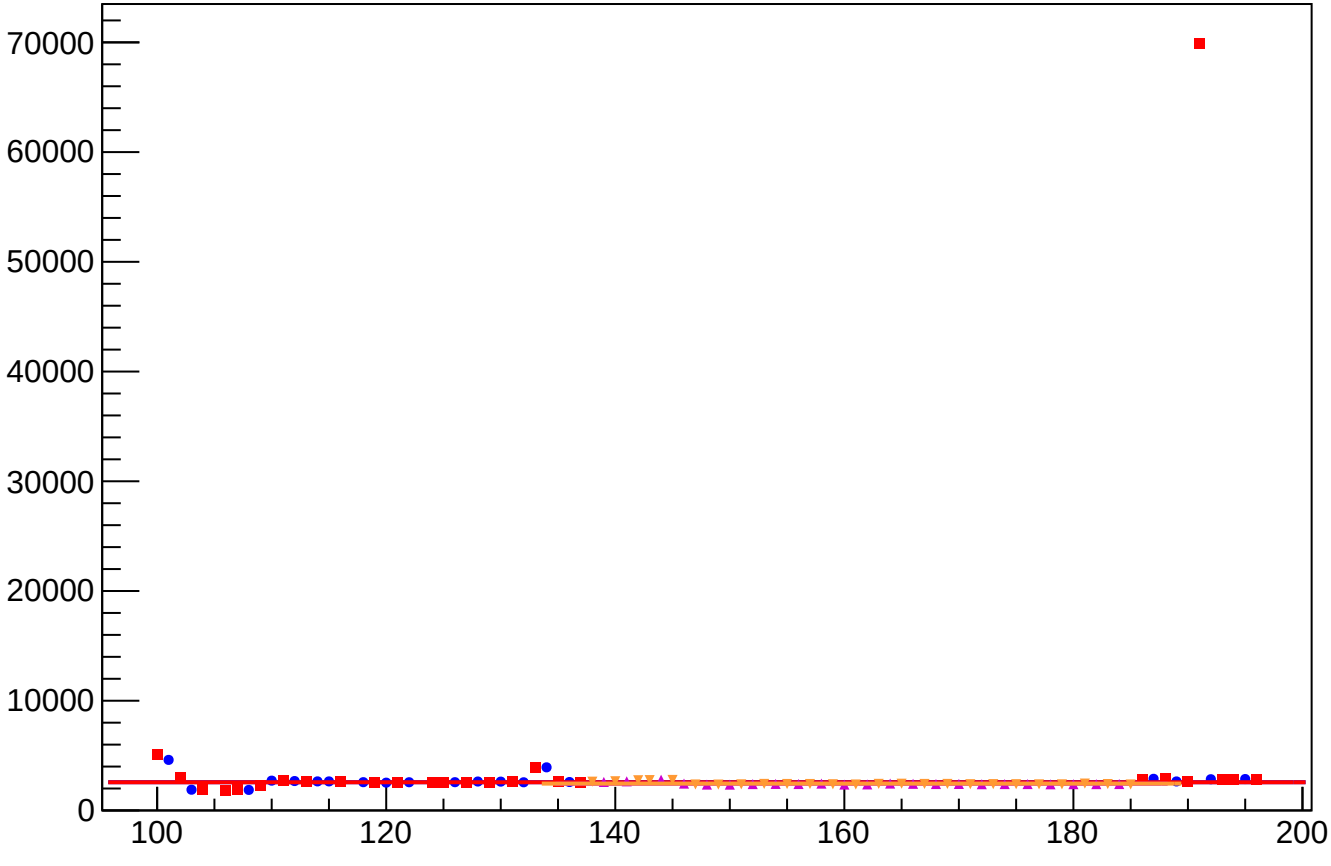
Right: 2779.036+/-565.451 $\chi^2$/NDF: 37.3/45

In: 3439.304+/-470.609 $\chi^2$/NDF:23.6/42

Out: 1362.388+/-450.347 $\chi^2$/NDF:54.2/50

All: 2355.174+/-325.371 $\chi^2$/NDF: 88.0/93

# cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2576.489+/-0.592 $\chi^2$/NDF: 661784.7/19

Left Out: 2445.826+/-0.393 $\chi^2$/NDF:90014.8/24

Right Out: 2569.214+/-0.543 $\chi^2$/NDF: 693955.9/25

Left In: 2435.950+/-0.403 $\chi^2$/NDF:59189.9/22

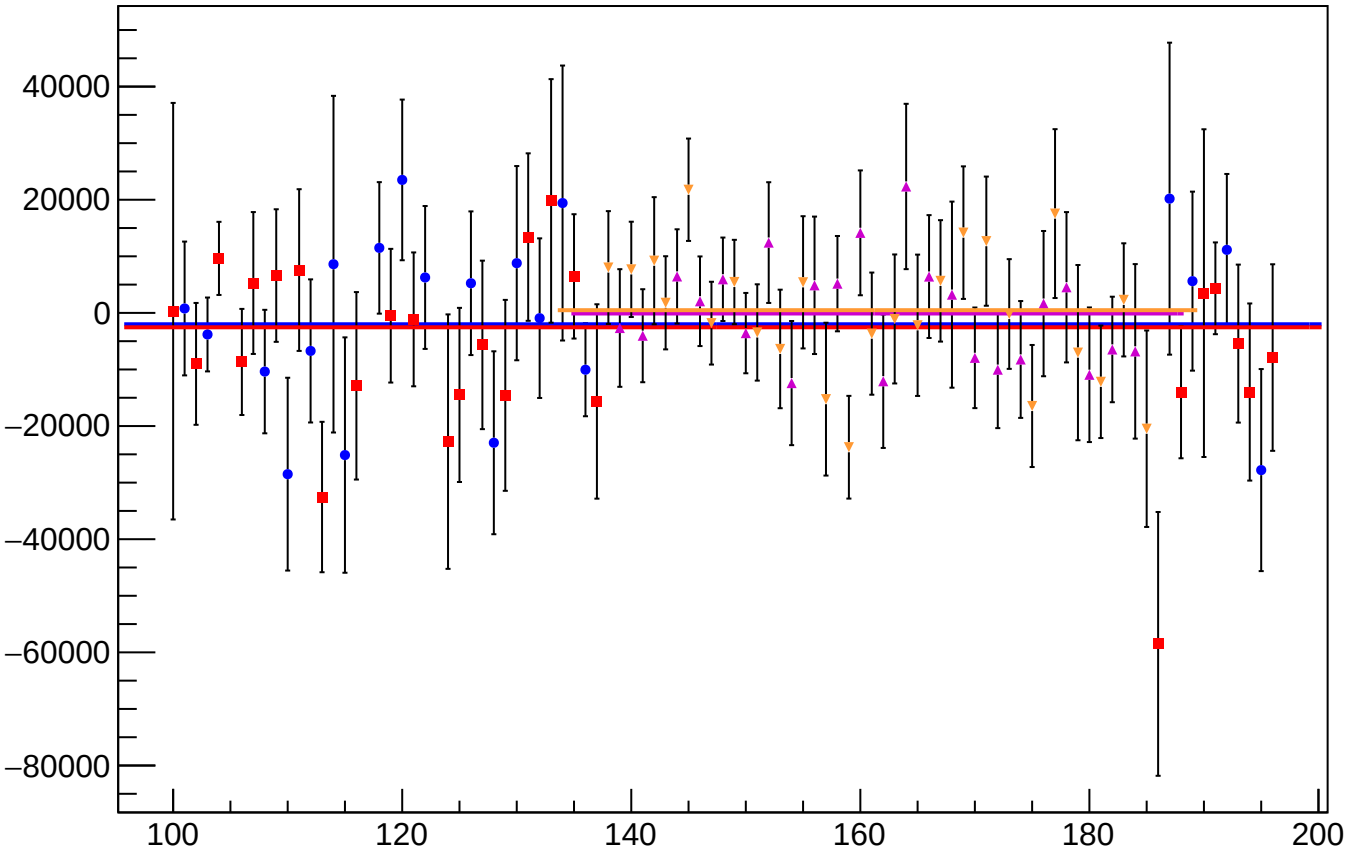
Left: 2441.002+/-0.281 $\chi^2$/NDF: 149512.6/47

Right: 2572.538+/-0.400 $\chi^2$/NDF: 1355822.7/45

In: 2480.426+/-0.333 $\chi^2$/NDF:759557.2/42

Out: 2488.334+/-0.318 $\chi^2$/NDF:817875.1/50

All: 2484.554+/-0.230 $\chi^2$/NDF: 1577727.1/93




Right In: -2009.401+/-2890.189 $\chi^2$/NDF: 17.7/19

Left Out: 477.198+/-2035.967 $\chi^2$/NDF:27.4/24

Right Out: -2545.716+/-2516.741 $\chi^2$/NDF: 25.0/25

Left In: -105.025+/-2090.897 $\chi^2$/NDF:14.5/22

Left: 193.835+/-1458.679 $\chi^2$/NDF: 41.9/47

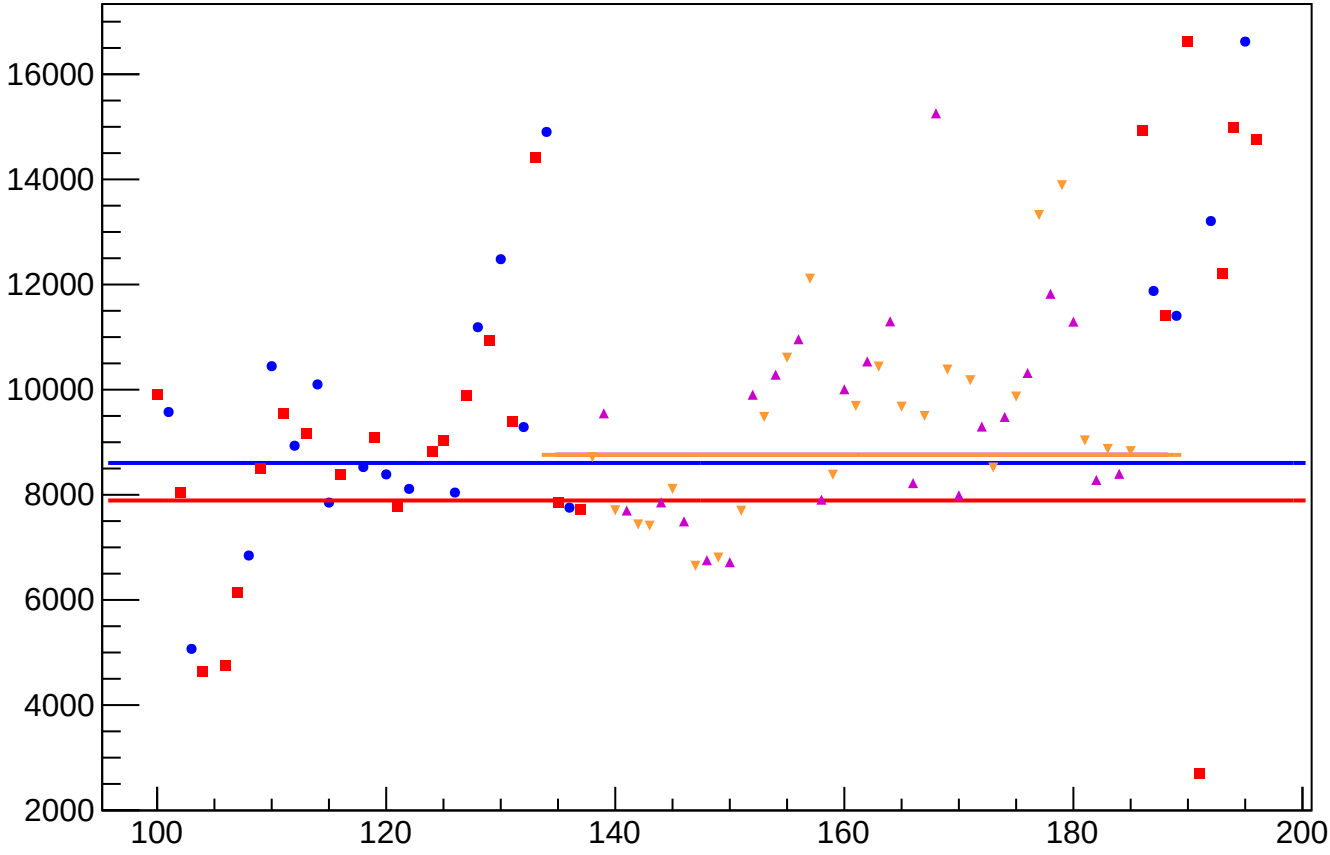
Right: -2314.425+/-1897.997 $\chi^2$/NDF: 42.7/45

In: -759.298+/-1694.062 $\chi^2$/NDF:32.5/42

Out: -718.554+/-1582.874 $\chi^2$/NDF:53.3/50

All: -737.545+/-1156.572 $\chi^2$/NDF: 85.7/93

# asym_atr2_cor_correction_rms vs Slug, Sign Corrected




Right In: 8605.969+/-2.044 $\chi^2$/NDF: 1734701.4/19

Left Out: 8759.625+/-1.440 $\chi^2$/NDF:1222248.8/24

Right Out: 7892.080+/-1.780 $\chi^2$/NDF: 3485560.2/25

Left In: 8764.132+/-1.478 $\chi^2$/NDF:1291700.3/22

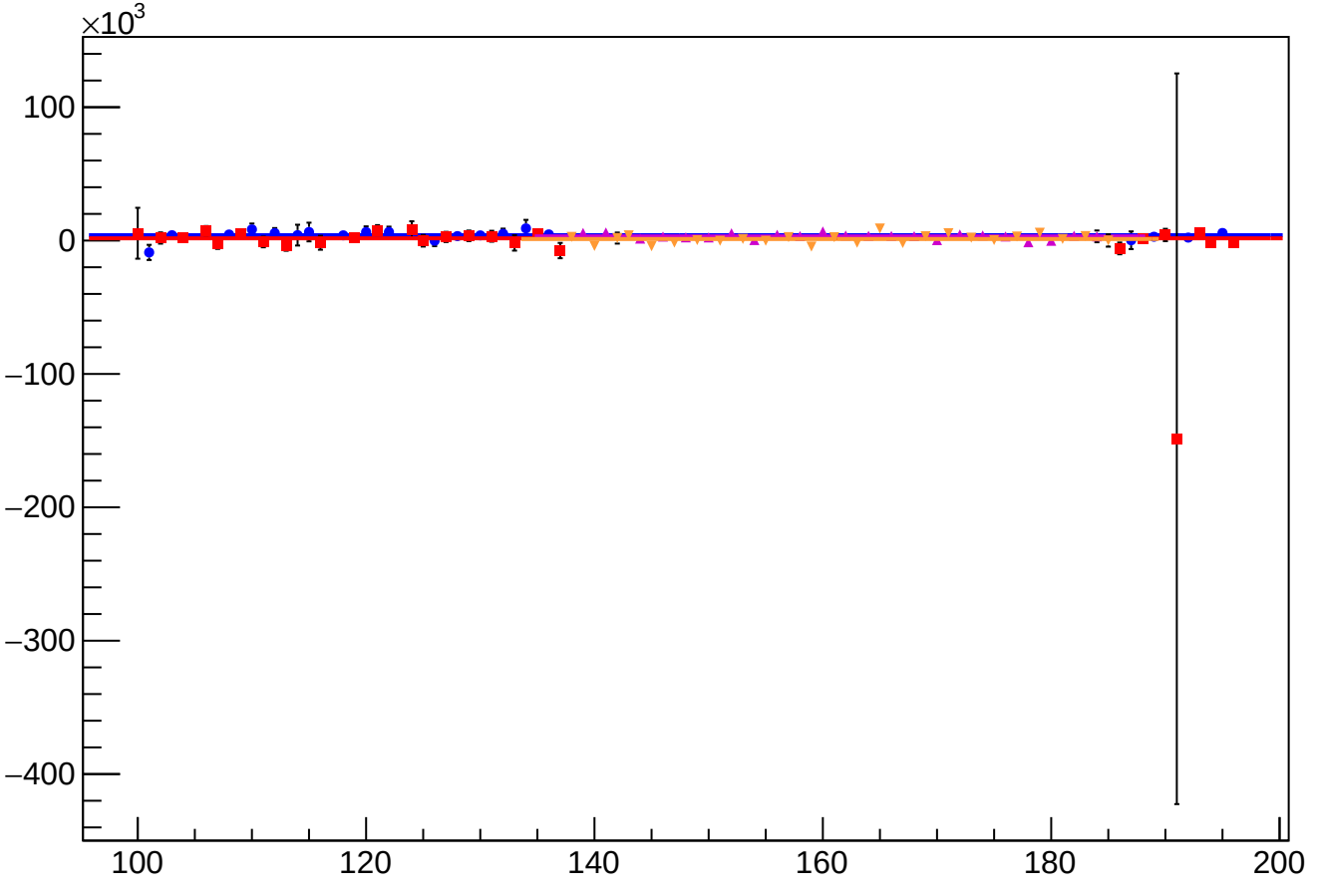
Left: 8761.819+/-1.031 $\chi^2$/NDF: 2513953.9/47

Right: 8199.951+/-1.342 $\chi^2$/NDF: 5289660.8/45

In: 8709.794+/-1.198 $\chi^2$/NDF:3030333.4/42

Out: 8416.455+/-1.119 $\chi^2$/NDF:4851453.8/50

All: 8553.183+/-0.818 $\chi^2$/NDF: 7913802.8/93




Right In: 4070.157+/-836.553 $\chi^2$/NDF: 10.1/19

Left Out: 1188.666+/-556.242 $\chi^2$/NDF:31.1/24

Right Out: 1692.925+/-767.268 $\chi^2$/NDF: 22.8/25

Left In: 3147.222+/-569.221 $\chi^2$/NDF:12.7/22

Left: 2145.360+/-397.832 $\chi^2$/NDF: 49.9/47

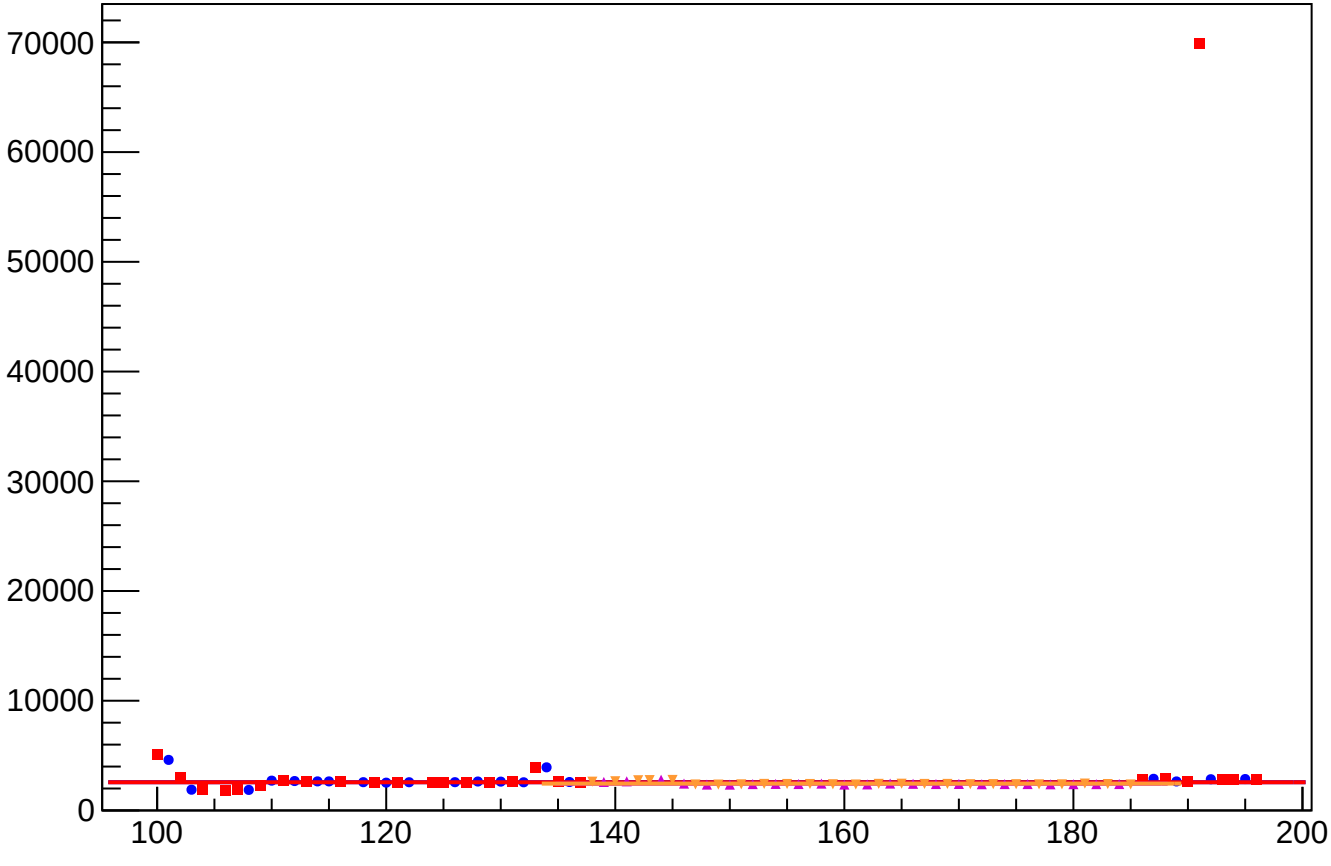
Right: 2779.036+/-565.451 $\chi^2$/NDF: 37.3/45

In: 3439.304+/-470.609 $\chi^2$/NDF:23.6/42

Out: 1362.388+/-450.347 $\chi^2$/NDF:54.2/50

All: 2355.174+/-325.371 $\chi^2$/NDF: 88.0/93

# eigen_cor_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2576.489+/-0.592 $\chi^2$/NDF: 661784.7/19

Left Out: 2445.826+/-0.393 $\chi^2$/NDF:90014.8/24

Right Out: 2569.214+/-0.543 $\chi^2$/NDF: 693955.9/25

Left In: 2435.950+/-0.403 $\chi^2$/NDF:59189.9/22

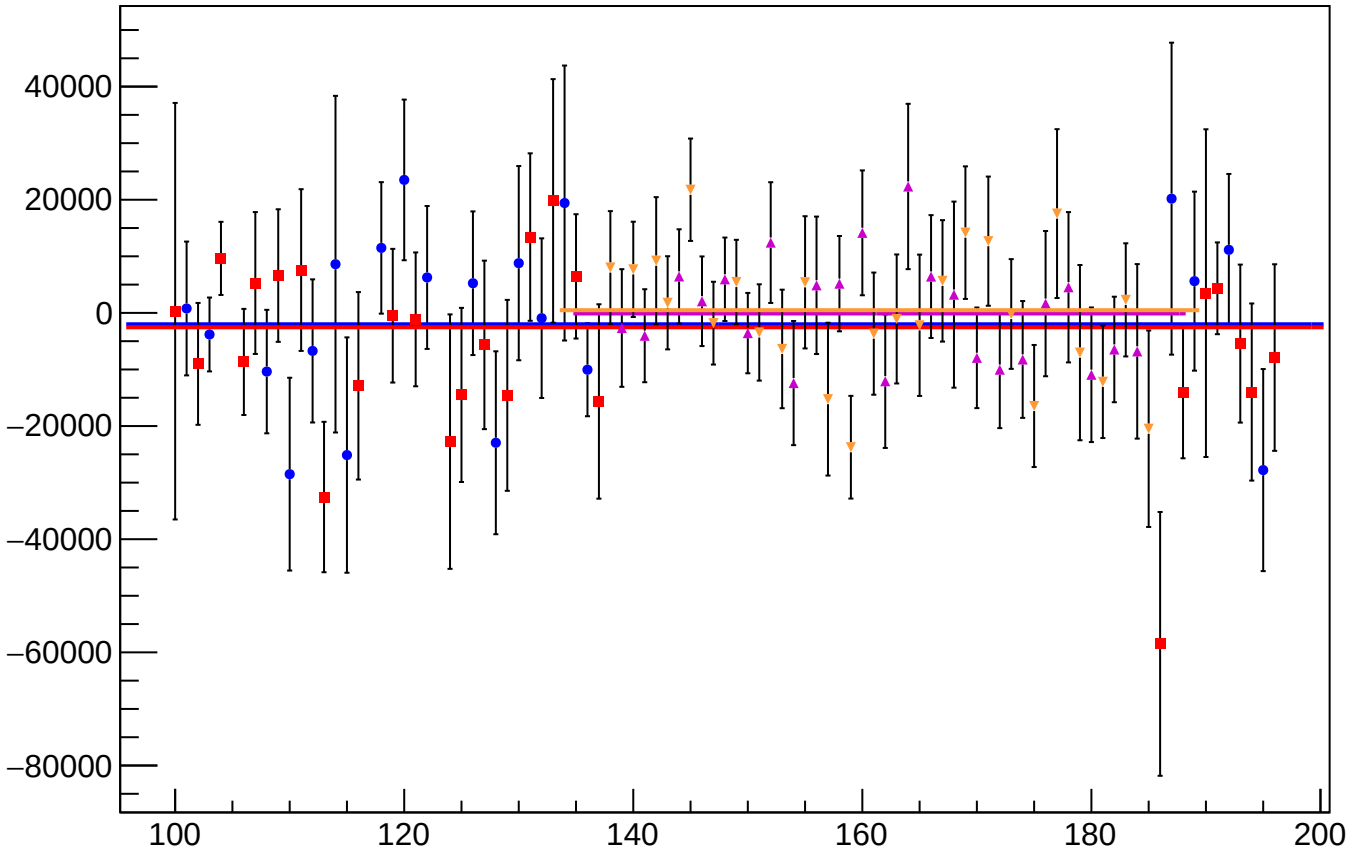
Left: 2441.002+/-0.281 $\chi^2$/NDF: 149512.6/47

Right: 2572.538+/-0.400 $\chi^2$/NDF: 1355822.7/45

In: 2480.426+/-0.333 $\chi^2$/NDF:759557.2/42

Out: 2488.334+/-0.318 $\chi^2$/NDF:817875.1/50

All: 2484.554+/-0.230 $\chi^2$/NDF: 1577727.1/93




Right In: -2009.401+/-2890.189 $\chi^2$/NDF: 17.7/19

Left Out: 477.198+/-2035.967 $\chi^2$/NDF:27.4/24

Right Out: -2545.716+/-2516.741 $\chi^2$/NDF: 25.0/25

Left In: -105.025+/-2090.897 $\chi^2$/NDF:14.5/22

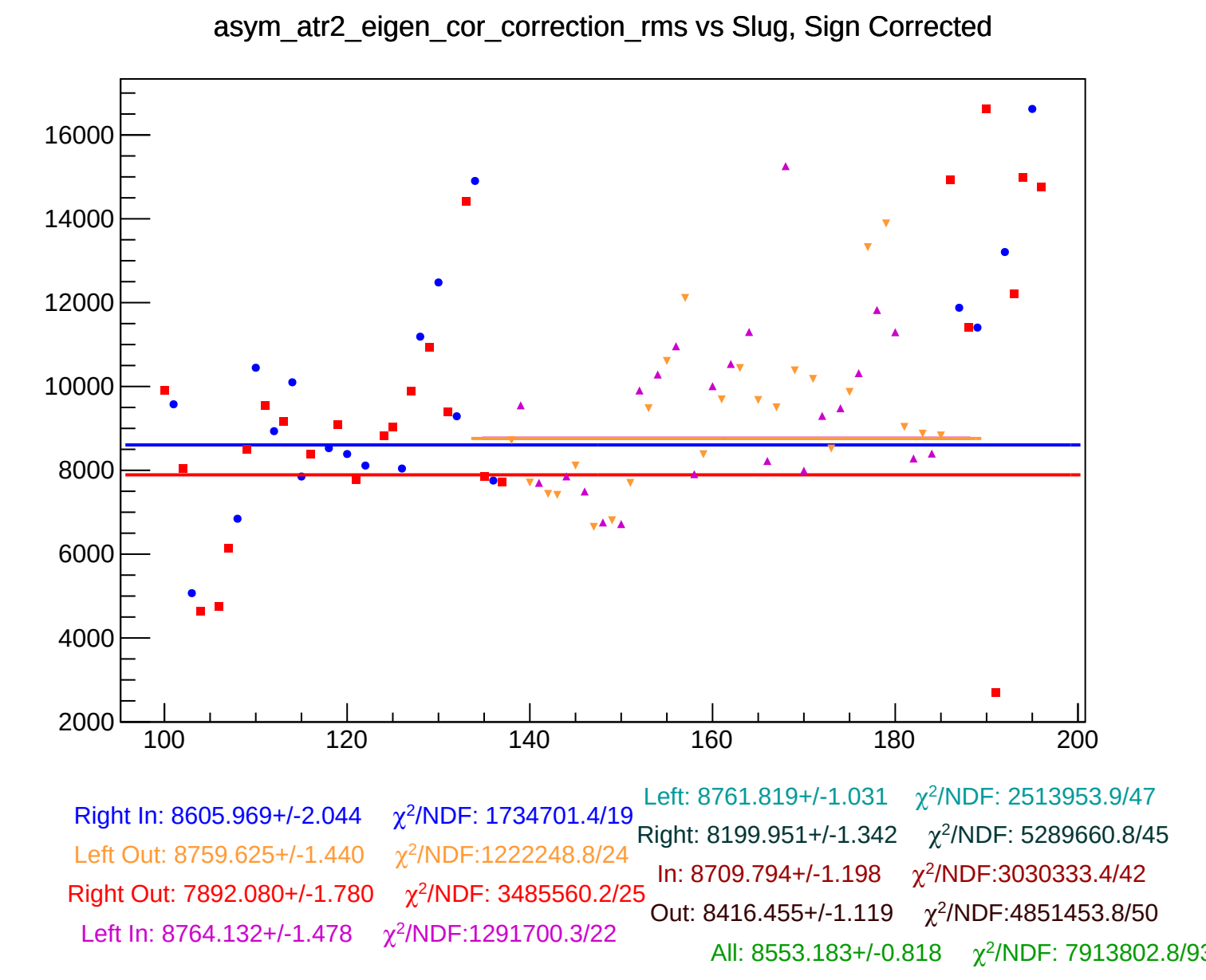
Left: 193.835+/-1458.679 $\chi^2$/NDF: 41.9/47

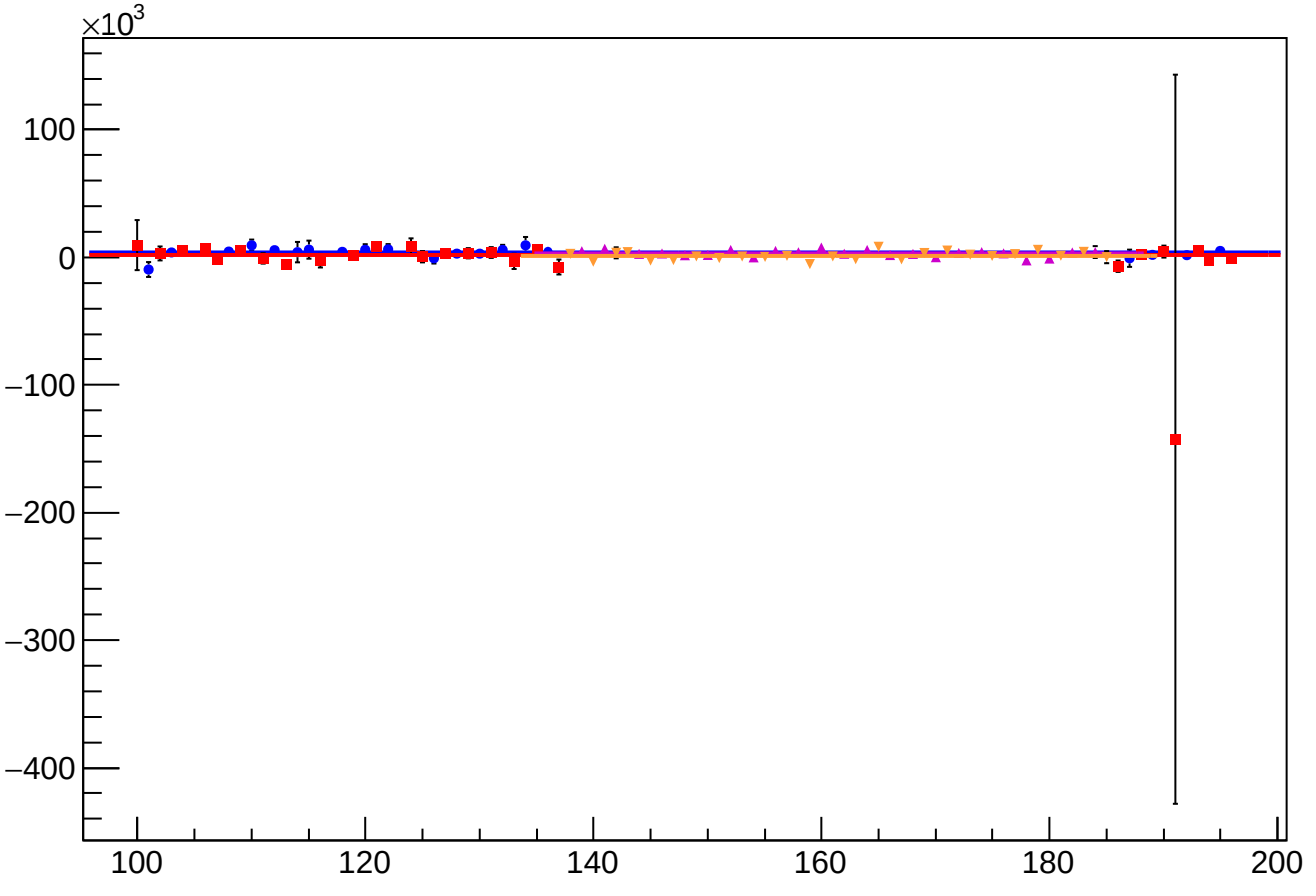
Right: -2314.425+/-1897.997 $\chi^2$/NDF: 42.7/45

In: -759.298+/-1694.062 $\chi^2$/NDF:32.5/42

Out: -718.554+/-1582.874 $\chi^2$/NDF:53.3/50

All: -737.545+/-1156.572 $\chi^2$/NDF: 85.7/93


asym_atr2_eigen_cor_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 8605.969+/-2.044 χ²/NDF: 1734701.4/19
Left Out: 8759.625+/-1.440 χ²/NDF:1222248.8/24
Right Out: 7892.080+/-1.780 χ²/NDF: 3485560.2/25
Left In: 8764.132+/-1.478 χ²/NDF:1291700.3/22
Left: 8761.819+/-1.031 χ²/NDF: 2513953.9/47
Right: 8199.951+/-1.342 χ²/NDF: 5289660.8/45
In: 8709.794+/-1.198 χ²/NDF:3030333.4/42
Out: 8416.455+/-1.119 χ²/NDF:4851453.8/50
All: 8553.183+/-0.818 χ²/NDF: 7913802.8/93




Right In: 3907.540+/-866.651 $\chi^2$/NDF: 11.5/19

Left Out: 1213.875+/-579.693 $\chi^2$/NDF:26.8/24

Right Out: 1950.611+/-796.114 $\chi^2$/NDF: 26.1/25

Left In: 3150.265+/-592.116 $\chi^2$/NDF:16.5/22

Left: 2161.543+/-414.227 $\chi^2$/NDF: 48.7/47

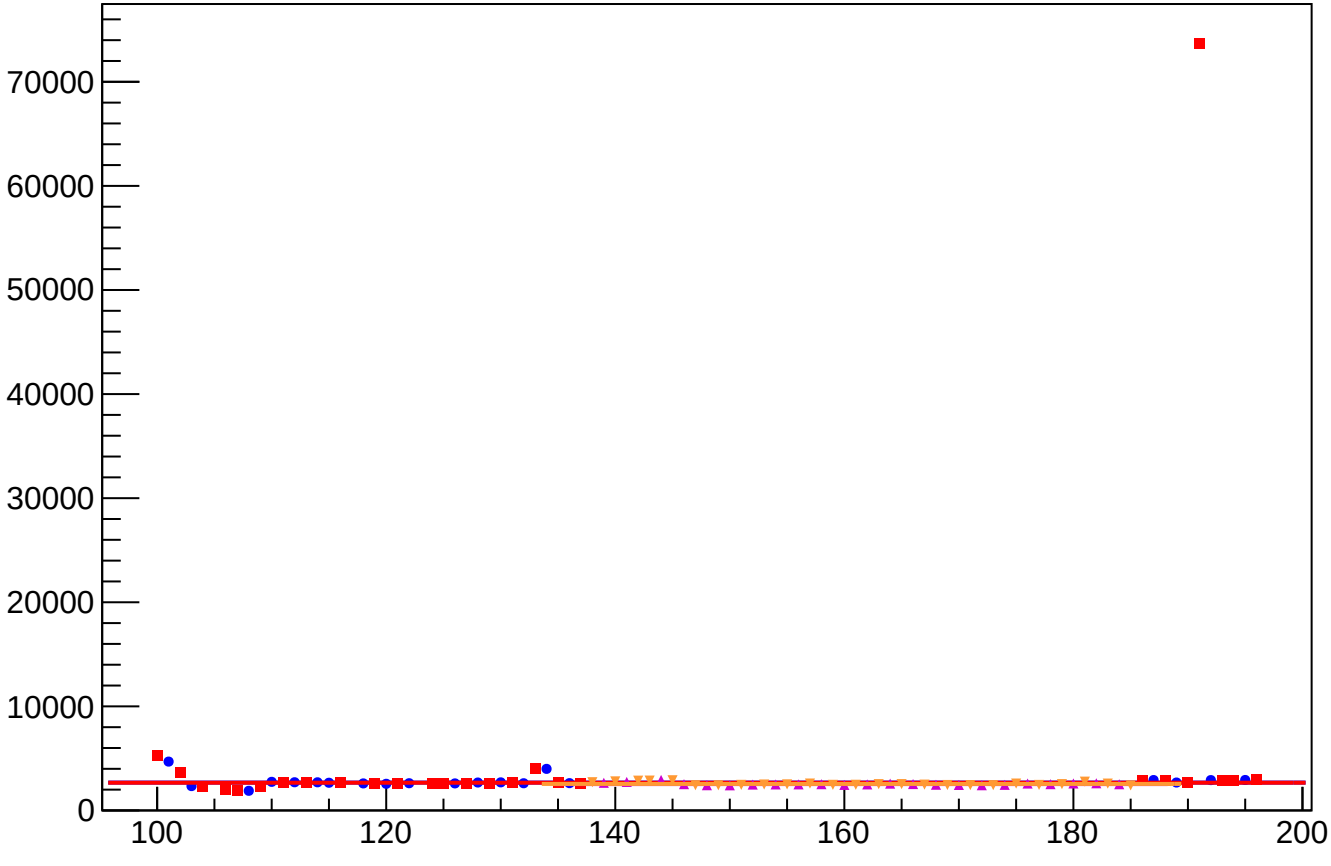
Right: 2846.208+/-586.291 $\chi^2$/NDF: 40.4/45

In: 3391.261+/-488.903 $\chi^2$/NDF:28.5/42

Out: 1469.149+/-468.622 $\chi^2$/NDF:53.5/50

All: 2389.513+/-338.309 $\chi^2$/NDF: 90.1/93

# dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2678.324+/-0.613 $\chi^2$/NDF: 520909.3/19

Left Out: 2547.154+/-0.410 $\chi^2$/NDF:117298.5/24

Right Out: 2664.938+/-0.563 $\chi^2$/NDF: 603376.9/25

Left In: 2532.772+/-0.419 $\chi^2$/NDF:68441.1/22

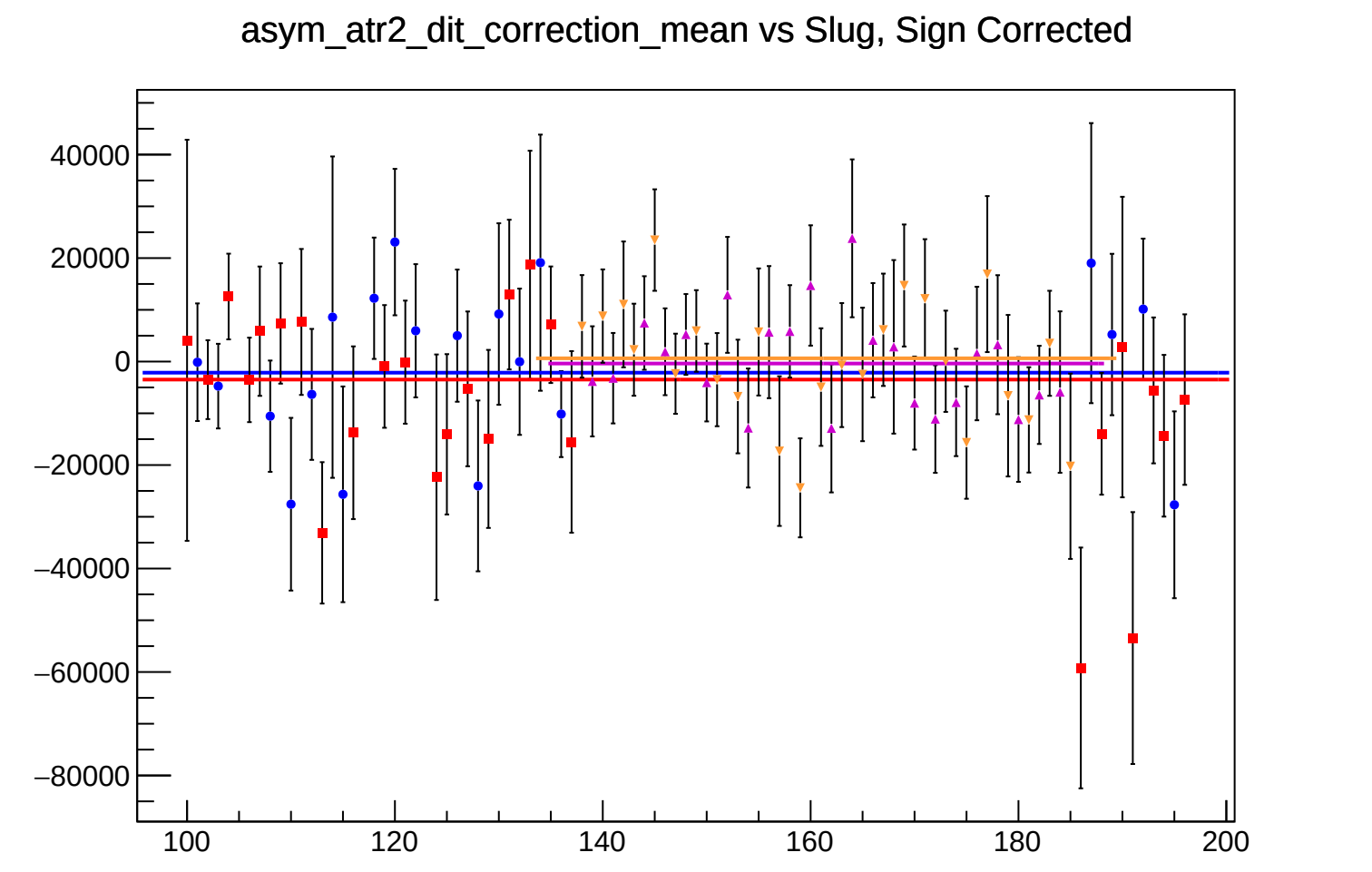
Left: 2540.116+/-0.293 $\chi^2$/NDF: 186342.1/47

Right: 2671.062+/-0.414 $\chi^2$/NDF: 1124545.1/45

In: 2579.093+/-0.346 $\chi^2$/NDF:627810.2/42

Out: 2587.987+/-0.331 $\chi^2$/NDF:749299.3/50

All: 2583.729+/-0.239 $\chi^2$/NDF: 1377454.5/93




Right In: -2146.990+/-3003.068 $\chi^2$/NDF: 17.5/19

Left Out: 631.360+/-2123.101 $\chi^2$/NDF:26.7/24

Right Out: -3480.987+/-2618.071 $\chi^2$/NDF: 27.6/25

Left In: -377.922+/-2176.347 $\chi^2$/NDF:14.2/22

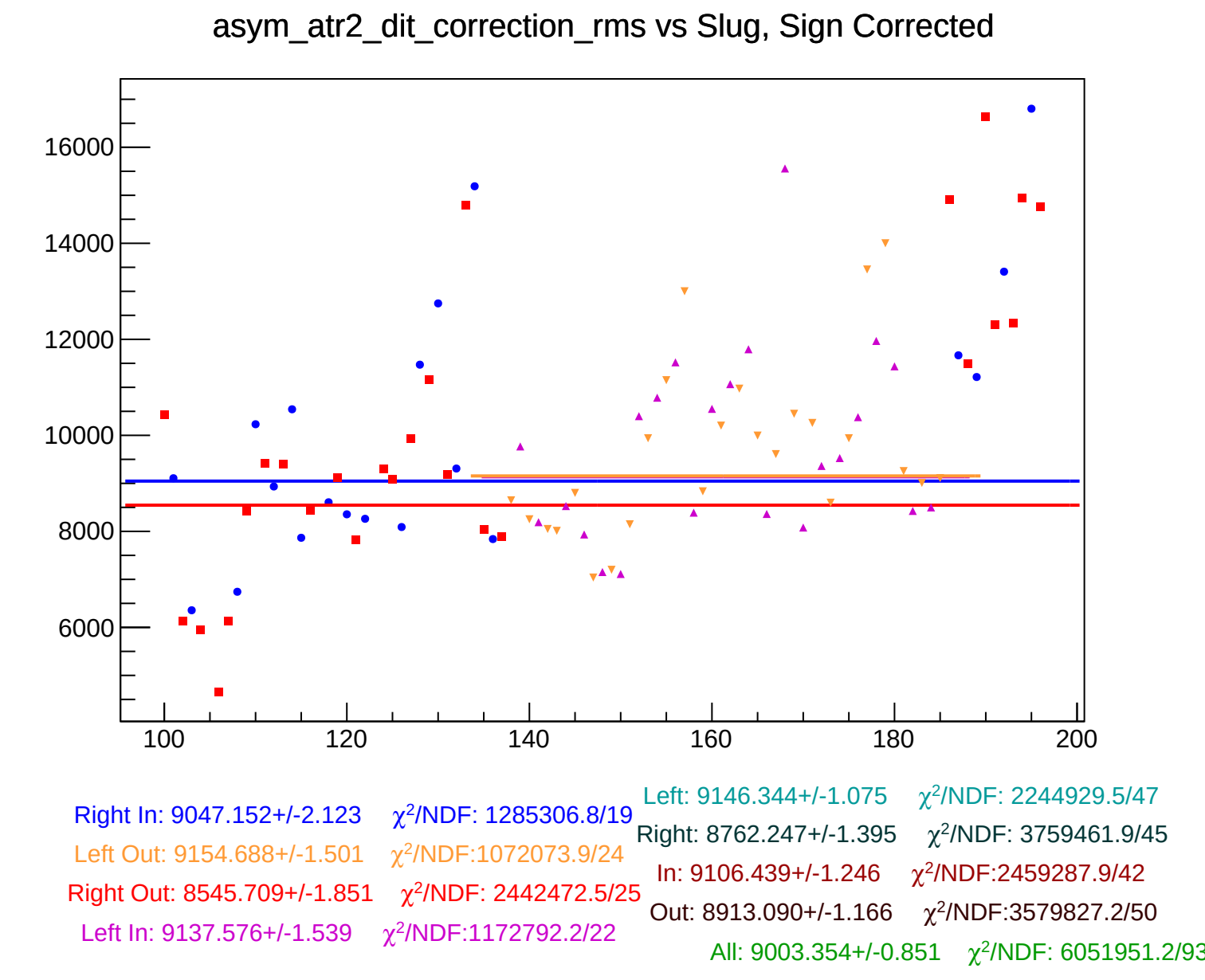
Left: 139.216+/-1519.735 $\chi^2$/NDF: 41.0/47

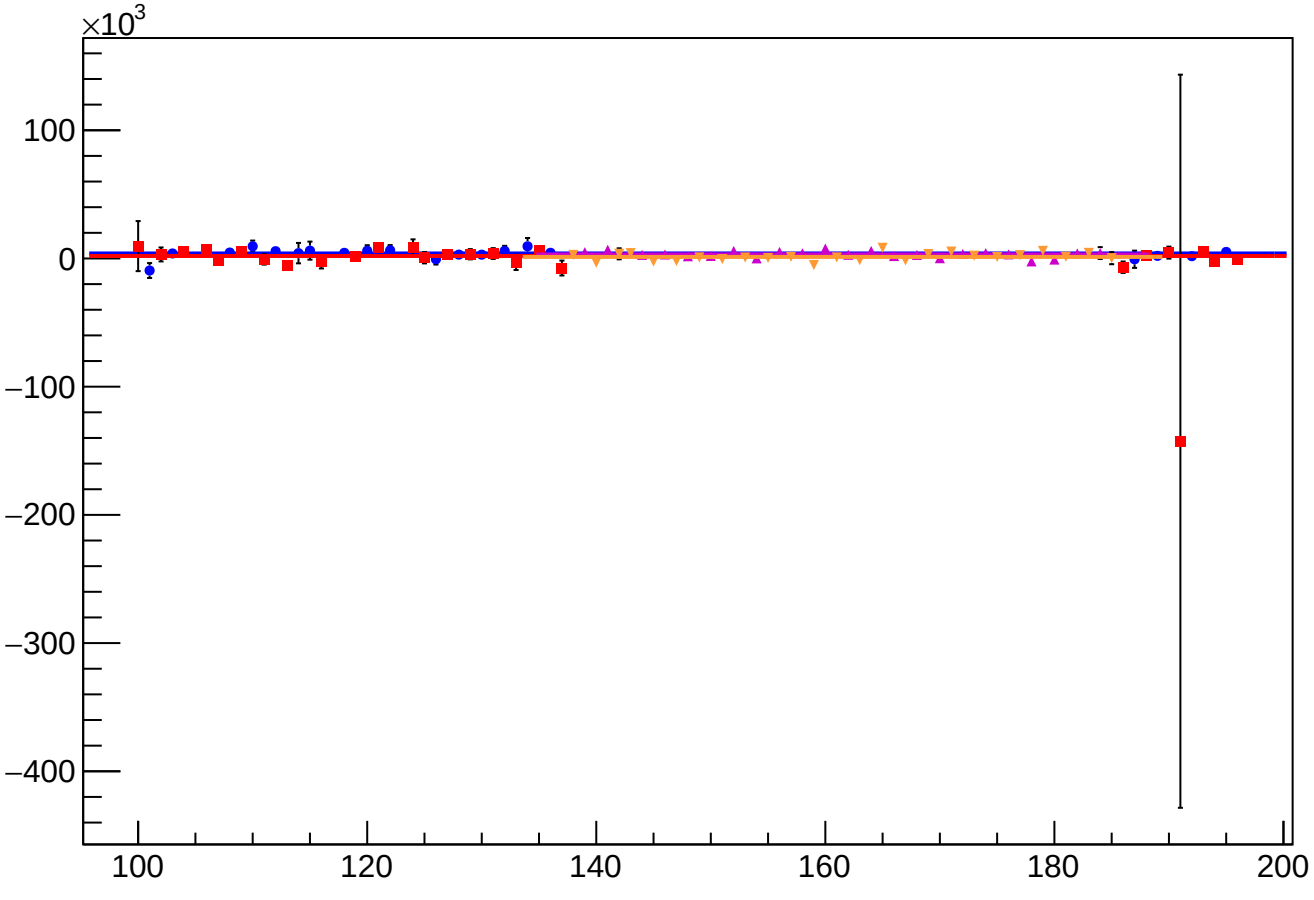
Right: -2904.929+/-1973.427 $\chi^2$/NDF: 45.2/45

In: -987.099+/-1762.238 $\chi^2$/NDF:31.9/42

Out: -1000.120+/-1649.026 $\chi^2$/NDF:55.8/50

All: -994.041+/-1204.073 $\chi^2$/NDF: 87.7/93


asym_atr2_dit_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
100
120
140
160
180
200
Right In: 9047.152+/-2.123 χ²/NDF: 1285306.8/19
Left Out: 9154.688+/-1.501 χ²/NDF:1072073.9/24
Right Out: 8545.709+/-1.851 χ²/NDF: 2442472.5/25
Left In: 9137.576+/-1.539 χ²/NDF:1172792.2/22
Left: 9146.344+/-1.075 χ²/NDF: 2244929.5/47
Right: 8762.247+/-1.395 χ²/NDF: 3759461.9/45
In: 9106.439+/-1.246 χ²/NDF:2459287.9/42
Out: 8913.090+/-1.166 χ²/NDF:3579827.2/50
All: 9003.354+/-0.851 χ²/NDF: 6051951.2/93




Right In: 3907.542+/-866.651 $\chi^2$/NDF: 11.5/19

Left Out: 1213.864+/-579.693 $\chi^2$/NDF:26.8/24

Right Out: 1950.616+/-796.114 $\chi^2$/NDF: 26.1/25

Left In: 3150.264+/-592.117 $\chi^2$/NDF:16.5/22

Left: 2161.537+/-414.228 $\chi^2$/NDF: 48.7/47

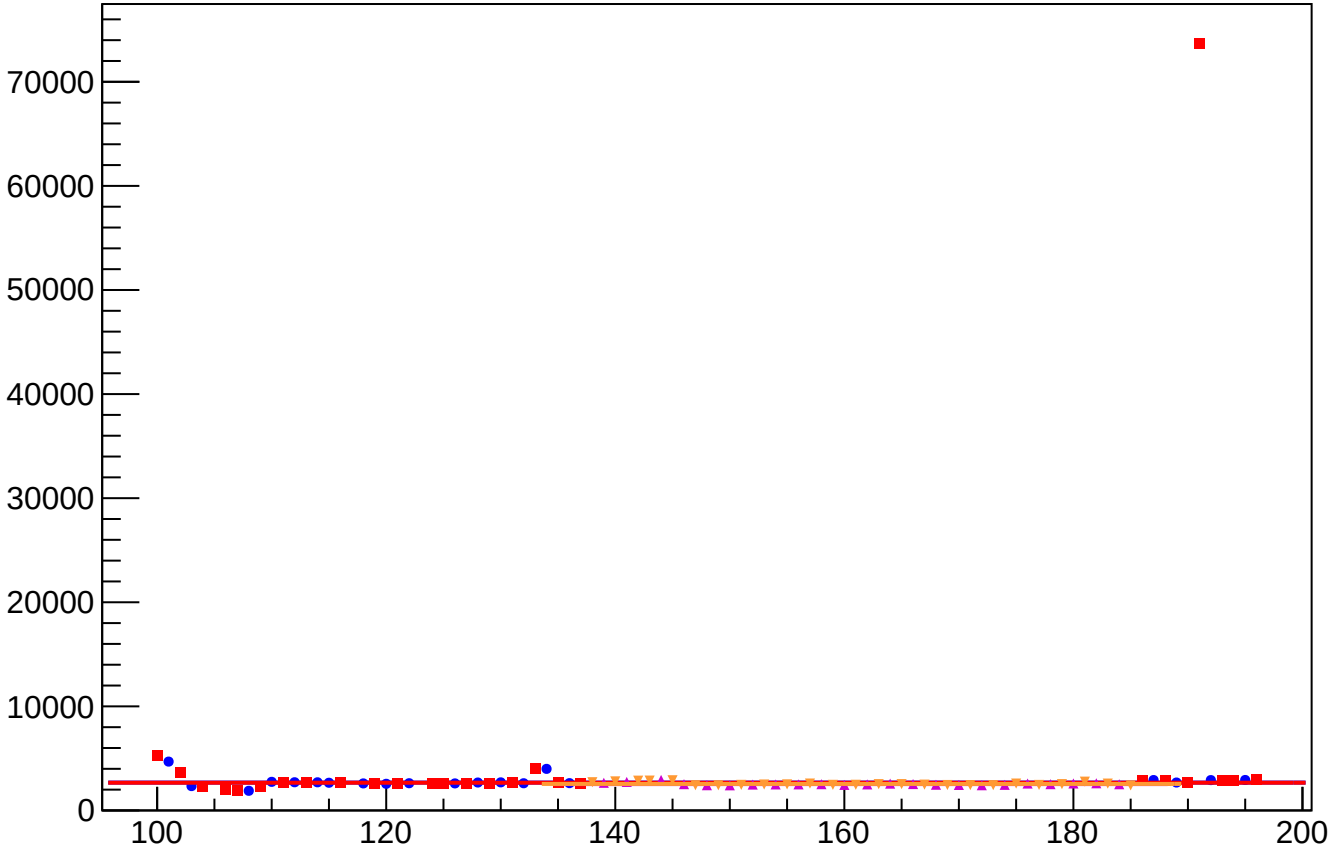
Right: 2846.212+/-586.291 $\chi^2$/NDF: 40.4/45

In: 3391.262+/-488.903 $\chi^2$/NDF:28.5/42

Out: 1469.144+/-468.623 $\chi^2$/NDF:53.5/50

All: 2389.510+/-338.309 $\chi^2$/NDF: 90.1/93

# eigen_dit_asym_atr2_rms vs Slug, Sign Corrected




Right In: 2678.323+/-0.613 $\chi^2$/NDF: 520909.6/19

Left Out: 2547.156+/-0.410 $\chi^2$/NDF:117298.5/24

Right Out: 2664.938+/-0.563 $\chi^2$/NDF: 603376.4/25

Left In: 2532.774+/-0.419 $\chi^2$/NDF:68440.8/22

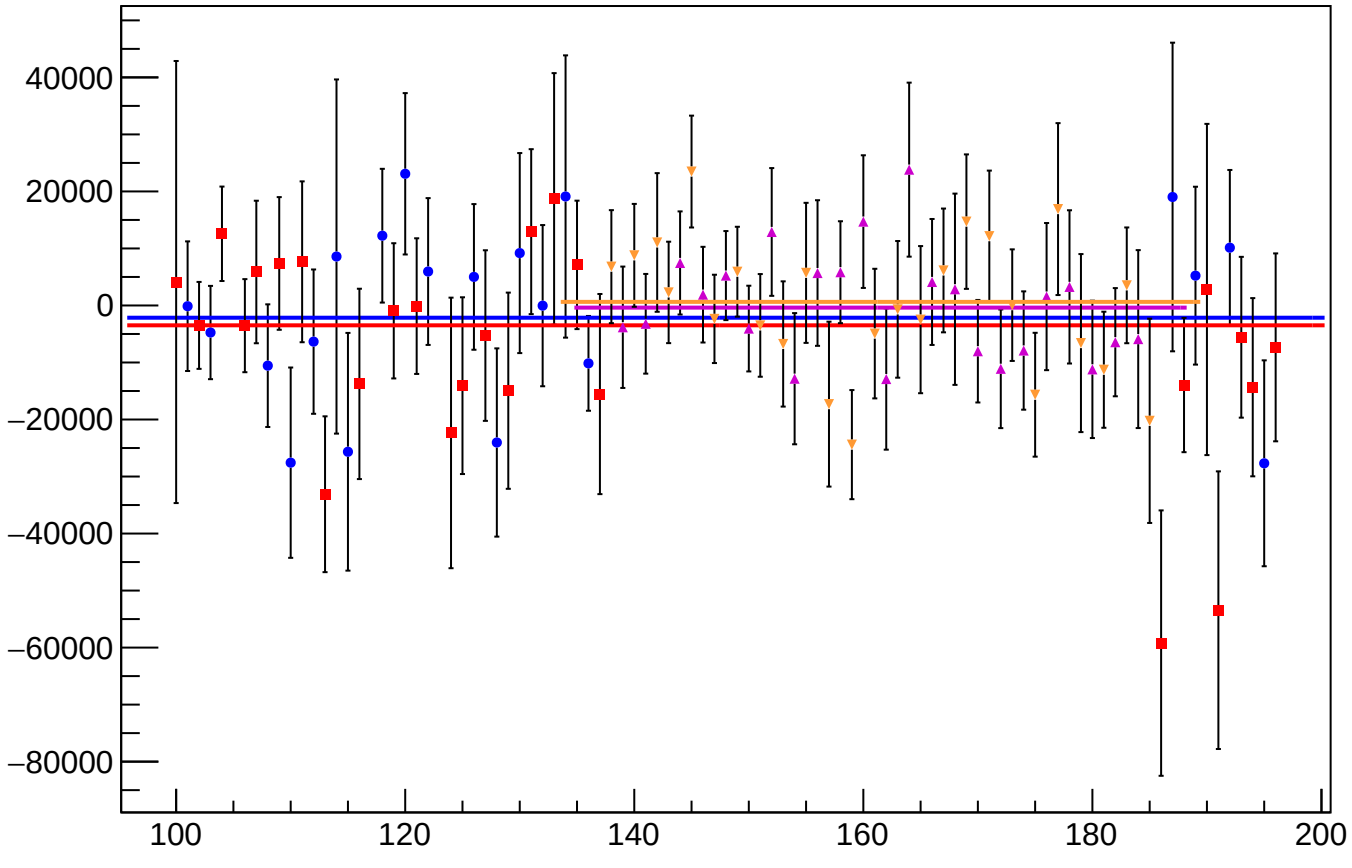
Left: 2540.117+/-0.293 $\chi^2$/NDF: 186341.7/47

Right: 2671.061+/-0.414 $\chi^2$/NDF: 1124544.9/45

In: 2579.093+/-0.346 $\chi^2$/NDF:627808.7/42

Out: 2587.988+/-0.331 $\chi^2$/NDF:749297.9/50

All: 2583.730+/-0.239 $\chi^2$/NDF: 1377451.7/93




Right In: -2146.959+/-3003.065 $\chi^2$/NDF: 17.5/19

Left Out: 631.356+/-2123.104 $\chi^2$/NDF:26.7/24

Right Out: -3480.976+/-2618.068 $\chi^2$/NDF: 27.6/25

Left In: -377.927+/-2176.350 $\chi^2$/NDF:14.2/22

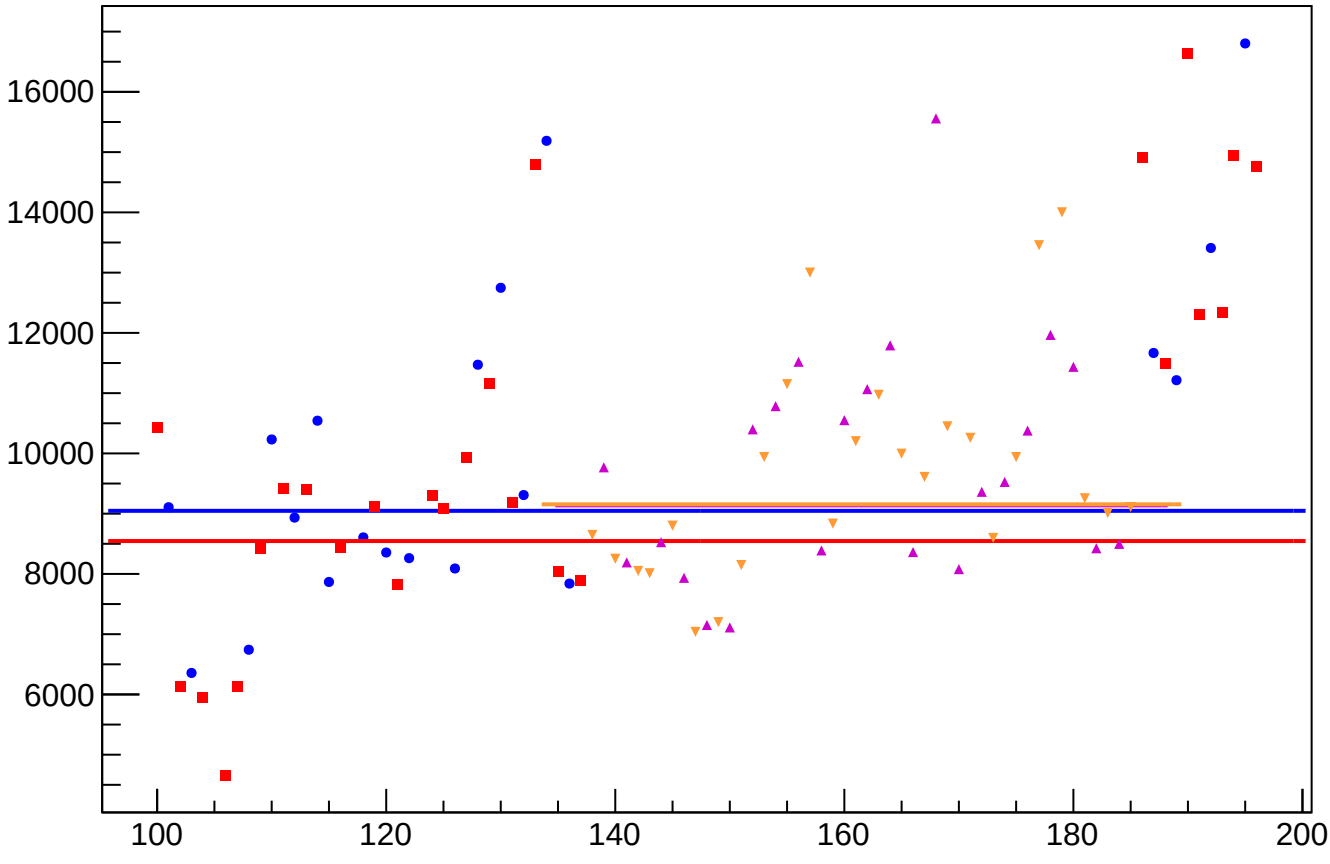
Left: 139.212+/-1519.737 $\chi^2$/NDF: 41.0/47

Right: -2904.909+/-1973.424 $\chi^2$/NDF: 45.2/45

In: -987.093+/-1762.239 $\chi^2$/NDF:31.9/42

Out: -1000.124+/-1649.027 $\chi^2$/NDF:55.8/50

All: -994.041+/-1204.073 $\chi^2$/NDF: 87.7/93




Right In: 9047.143+/-2.123 $\chi^2$/NDF: 1285306.8/19

Left Out: 9154.703+/-1.501 $\chi^2$/NDF:1072075.9/24

Right Out: 8545.698+/-1.851 $\chi^2$/NDF: 2442475.3/25

Left In: 9137.590+/-1.539 $\chi^2$/NDF:1172796.0/22

Left: 9146.358+/-1.075 $\chi^2$/NDF: 2244935.3/47

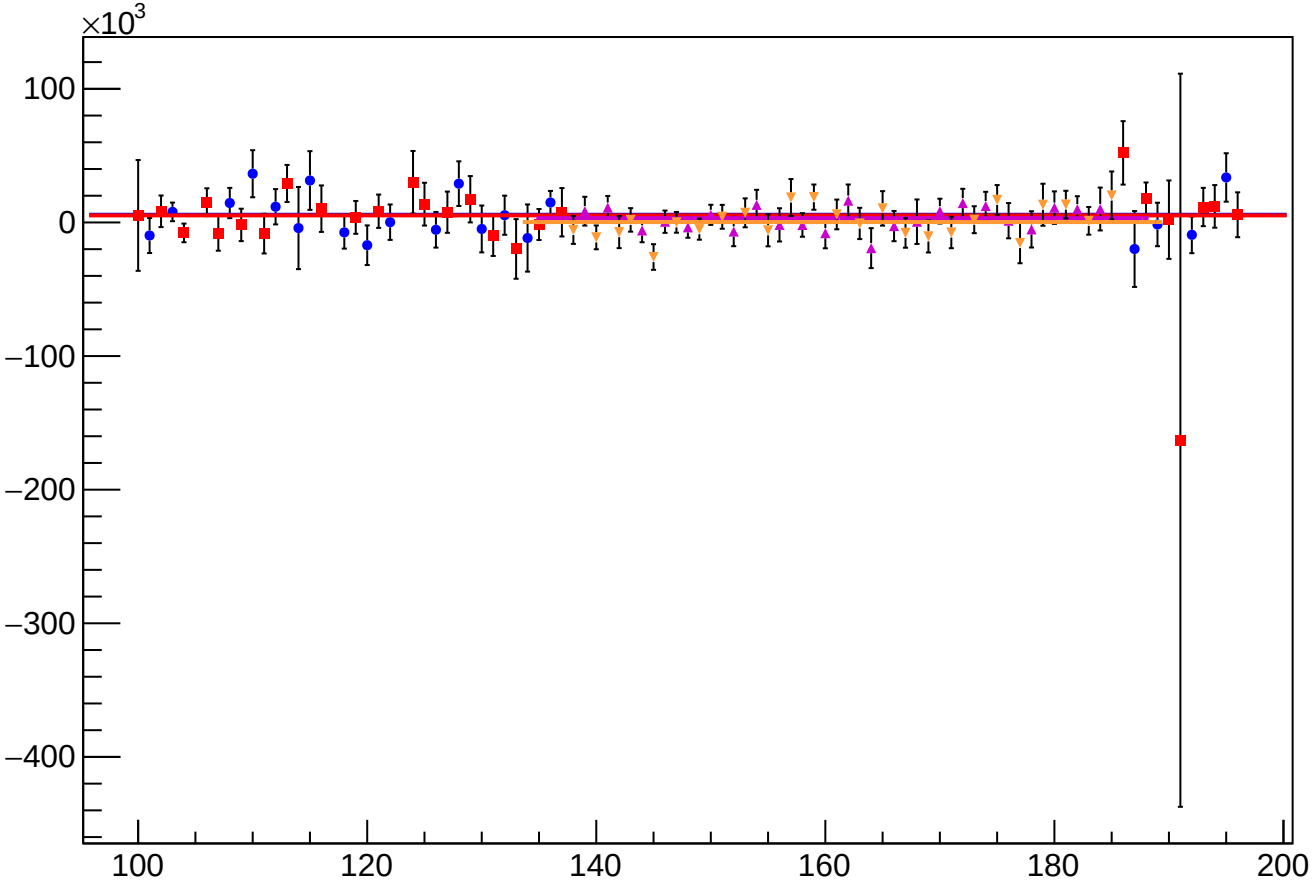
Right: 8762.236+/-1.395 $\chi^2$/NDF: 3759465.2/45

In: 9106.444+/-1.246 $\chi^2$/NDF:2459292.4/42

Out: 8913.093+/-1.166 $\chi^2$/NDF:3579837.7/50

All: 9003.359+/-0.851 $\chi^2$/NDF: 6051966.5/93

# asym_atr2_mean vs Slug, Sign Corrected




Right In: 5741.372+/-3033.823 $\chi^2$/NDF: 19.7/19

Left Out: 295.038+/-2125.383 $\chi^2$/NDF:26.3/24

Right Out: 5275.548+/-2791.512 $\chi^2$/NDF: 20.1/25

Left In: 3233.667+/-2179.845 $\chi^2$/NDF:13.6/22

Left: 1727.184+/-1521.763 $\chi^2$/NDF: 40.8/47

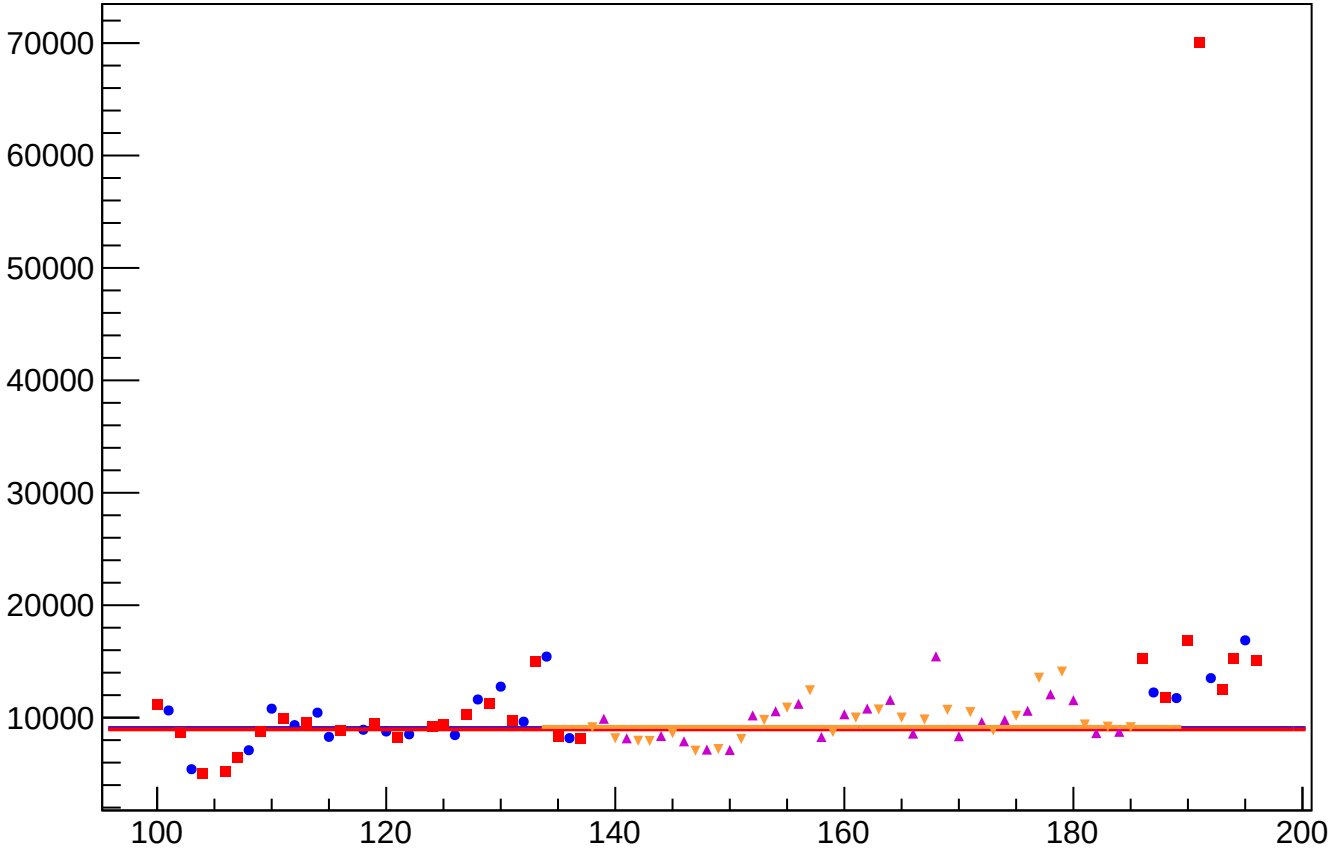
Right: 5489.117+/-2054.227 $\chi^2$/NDF: 39.8/45

In: 4087.499+/-1770.265 $\chi^2$/NDF:33.7/42

Out: 2122.707+/-1691.030 $\chi^2$/NDF:48.4/50

All: 3060.149+/-1222.791 $\chi^2$/NDF: 82.8/93

# asym_atr2_rms vs Slug, Sign Corrected




Right In: 9067.217+/-2.145 $\chi^2$/NDF: 1621141.1/19

Left Out: 9172.826+/-1.503 $\chi^2$/NDF:1056946.9/24

Right Out: 8962.324+/-1.974 $\chi^2$/NDF: 2433218.3/25

Left In: 9162.276+/-1.541 $\chi^2$/NDF:1127533.4/22

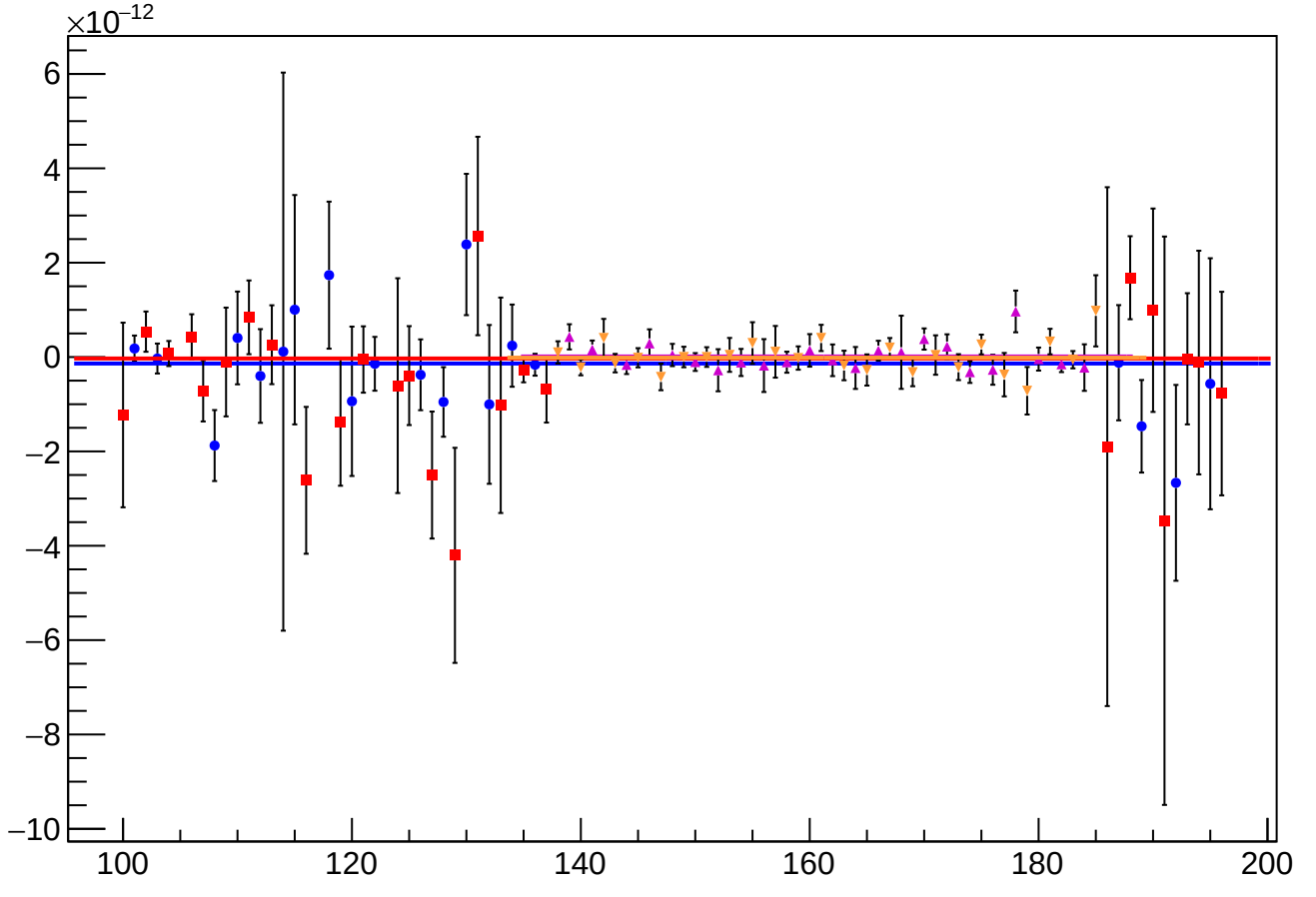
Left: 9167.685+/-1.076 $\chi^2$/NDF: 2184504.3/47

Right: 9010.413+/-1.453 $\chi^2$/NDF: 4055654.2/45

In: 9129.910+/-1.252 $\chi^2$/NDF:2749969.5/42

Out: 9095.577+/-1.196 $\chi^2$/NDF:3497364.8/50

All: 9111.958+/-0.865 $\chi^2$/NDF: 6247727.7/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.2/22

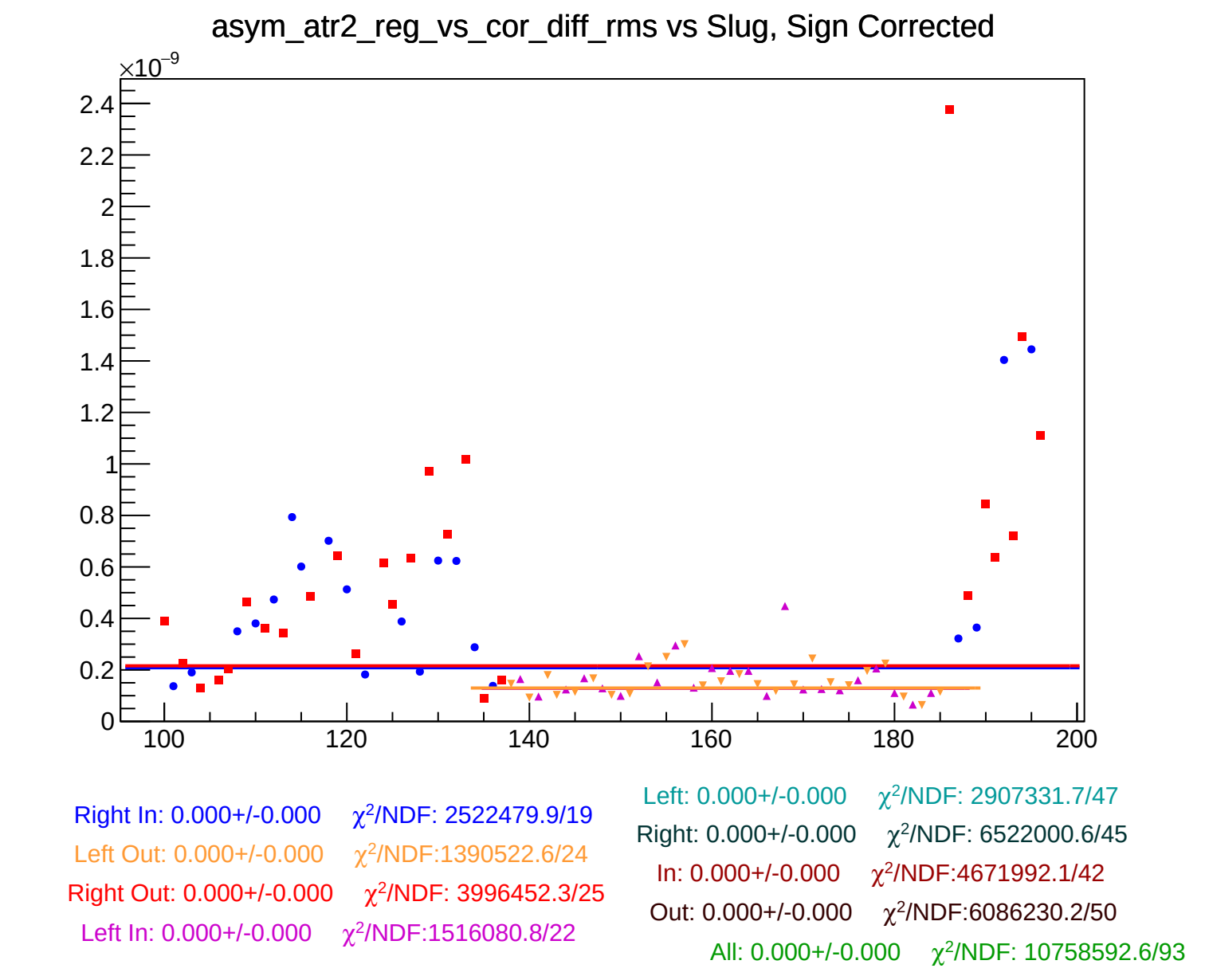
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.7/47

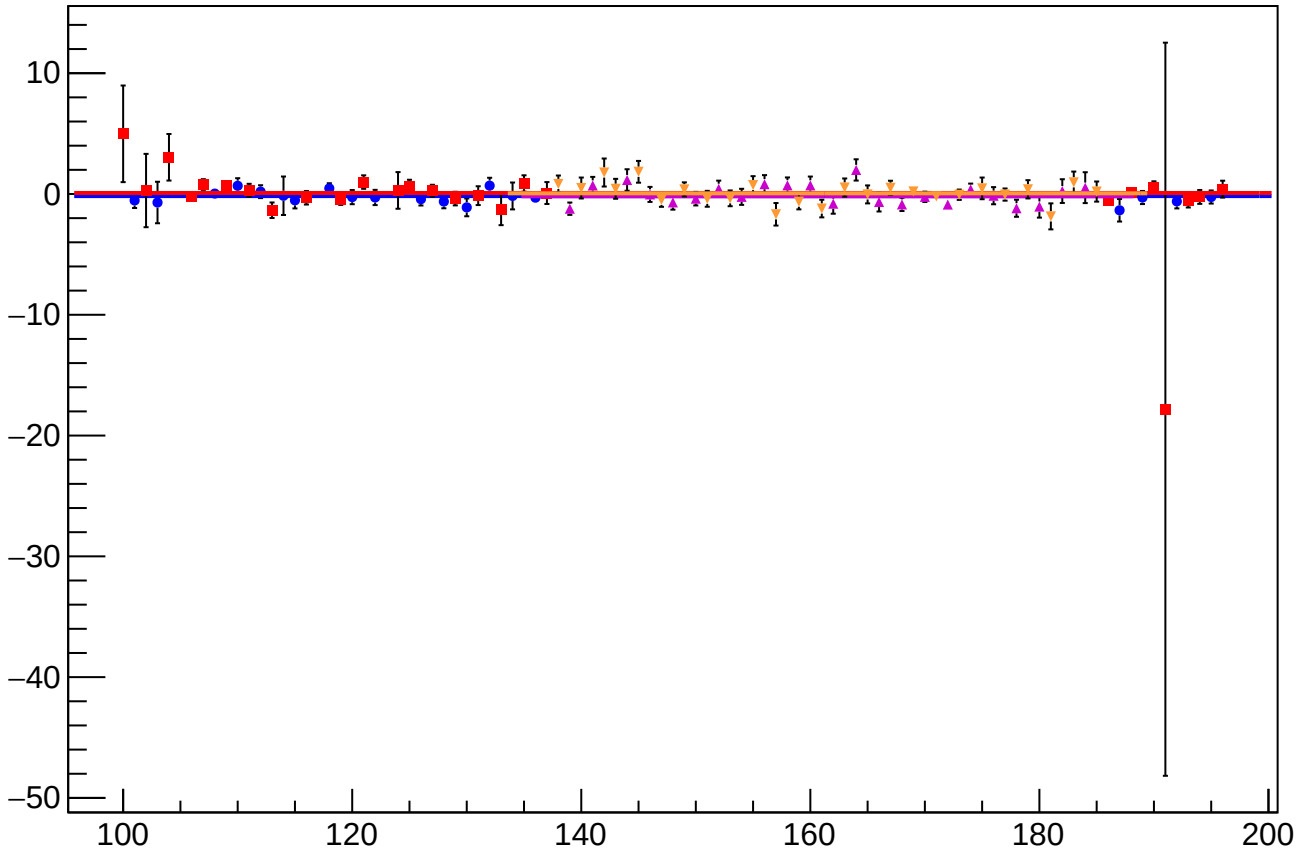
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:37.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:43.7/50

All: -0.000+/-0.000 $\chi^2$/NDF: 81.0/93


asym_atr2_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2522479.9/19
Left Out: 0.000+/-0.000 χ²/NDF:1390522.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 3996452.3/25
Left In: 0.000+/-0.000 χ²/NDF:1516080.8/22
Left: 0.000+/-0.000 χ²/NDF: 2907331.7/47
Right: 0.000+/-0.000 χ²/NDF: 6522000.6/45
In: 0.000+/-0.000 χ²/NDF:4671992.1/42
Out: 0.000+/-0.000 χ²/NDF:6086230.2/50
All: 0.000+/-0.000 χ²/NDF: 10758592.6/93




Right In: -0.174+/-0.131 $\chi^2$/NDF: 12.1/19

Left Out: 0.054+/-0.130 $\chi^2$/NDF:24.7/24

Right Out: 0.084+/-0.103 $\chi^2$/NDF: 31.0/25

Left In: -0.191+/-0.133 $\chi^2$/NDF:31.1/22

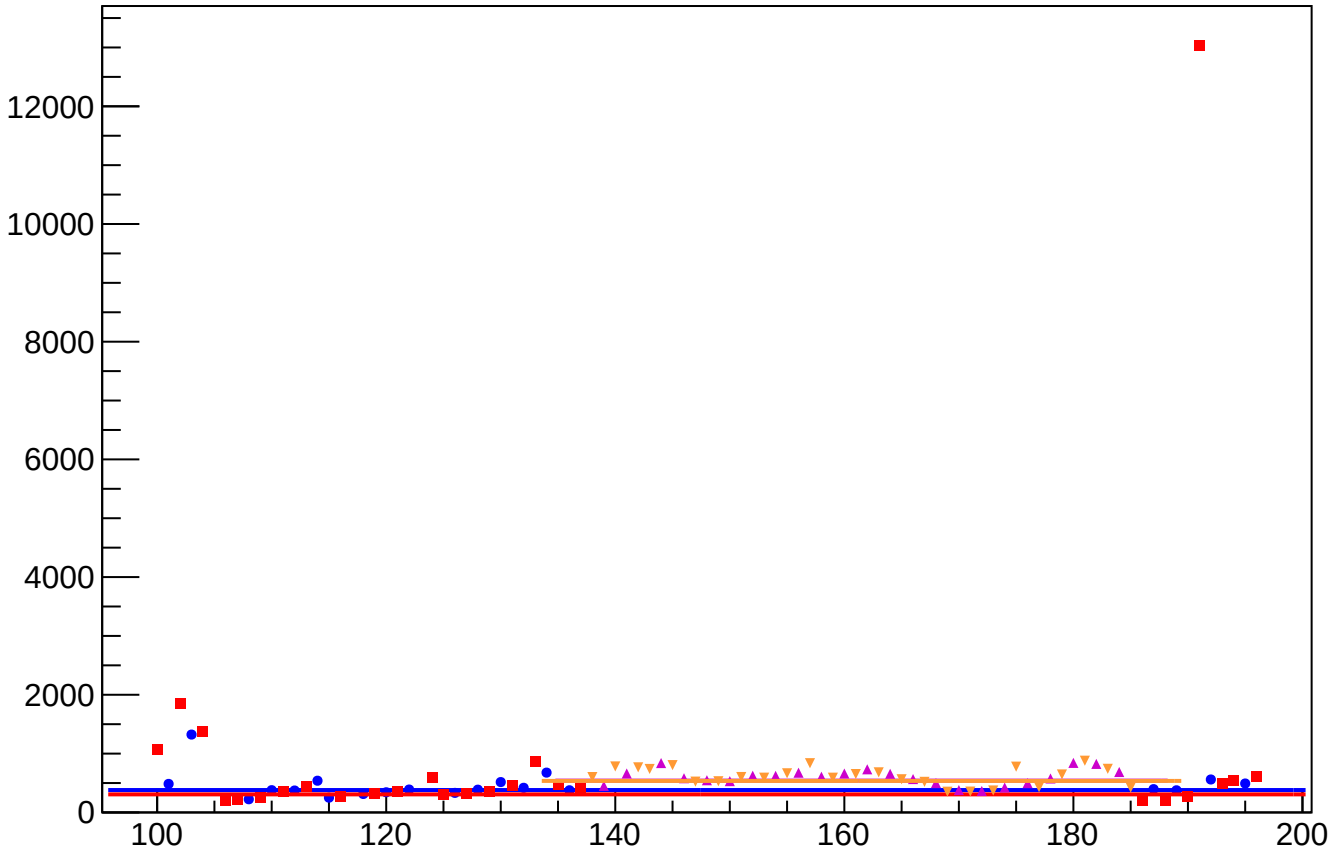
Left: -0.065+/-0.093 $\chi^2$/NDF: 57.6/47

Right: -0.015+/-0.081 $\chi^2$/NDF: 45.6/45

In: -0.183+/-0.093 $\chi^2$/NDF:43.3/42

Out: 0.073+/-0.081 $\chi^2$/NDF:55.7/50

All: -0.036+/-0.061 $\chi^2$/NDF: 103.3/93




Right In: 381.003+/-0.092 $\chi^2$/NDF: 1684805.7/19

Left Out: 535.943+/-0.092 $\chi^2$/NDF:2749736.4/24

Right Out: 307.226+/-0.073 $\chi^2$/NDF: 4239545.3/25

Left In: 540.804+/-0.094 $\chi^2$/NDF:1904998.0/22

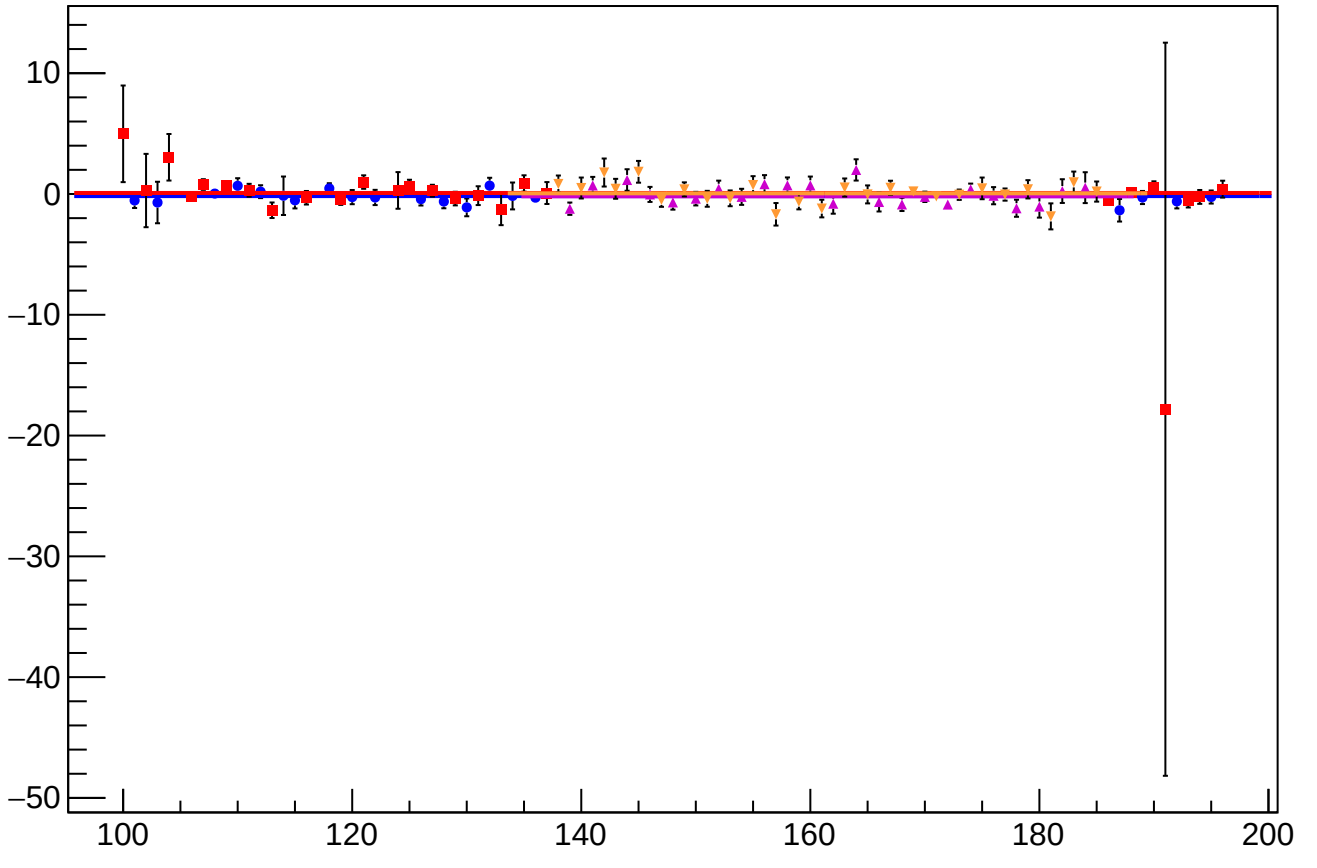
Left: 538.306+/-0.066 $\chi^2$/NDF: 4656104.0/47

Right: 335.486+/-0.057 $\chi^2$/NDF: 6318216.4/45

In: 459.357+/-0.066 $\chi^2$/NDF:5058406.6/42

Out: 395.736+/-0.057 $\chi^2$/NDF:10813622.8/50

All: 422.934+/-0.043 $\chi^2$/NDF: 16405298.3/93




Right In: -0.174+/-0.131 $\chi^2$/NDF: 12.1/19

Left Out: 0.054+/-0.130 $\chi^2$/NDF:24.7/24

Right Out: 0.084+/-0.103 $\chi^2$/NDF: 31.0/25

Left In: -0.191+/-0.133 $\chi^2$/NDF:31.1/22

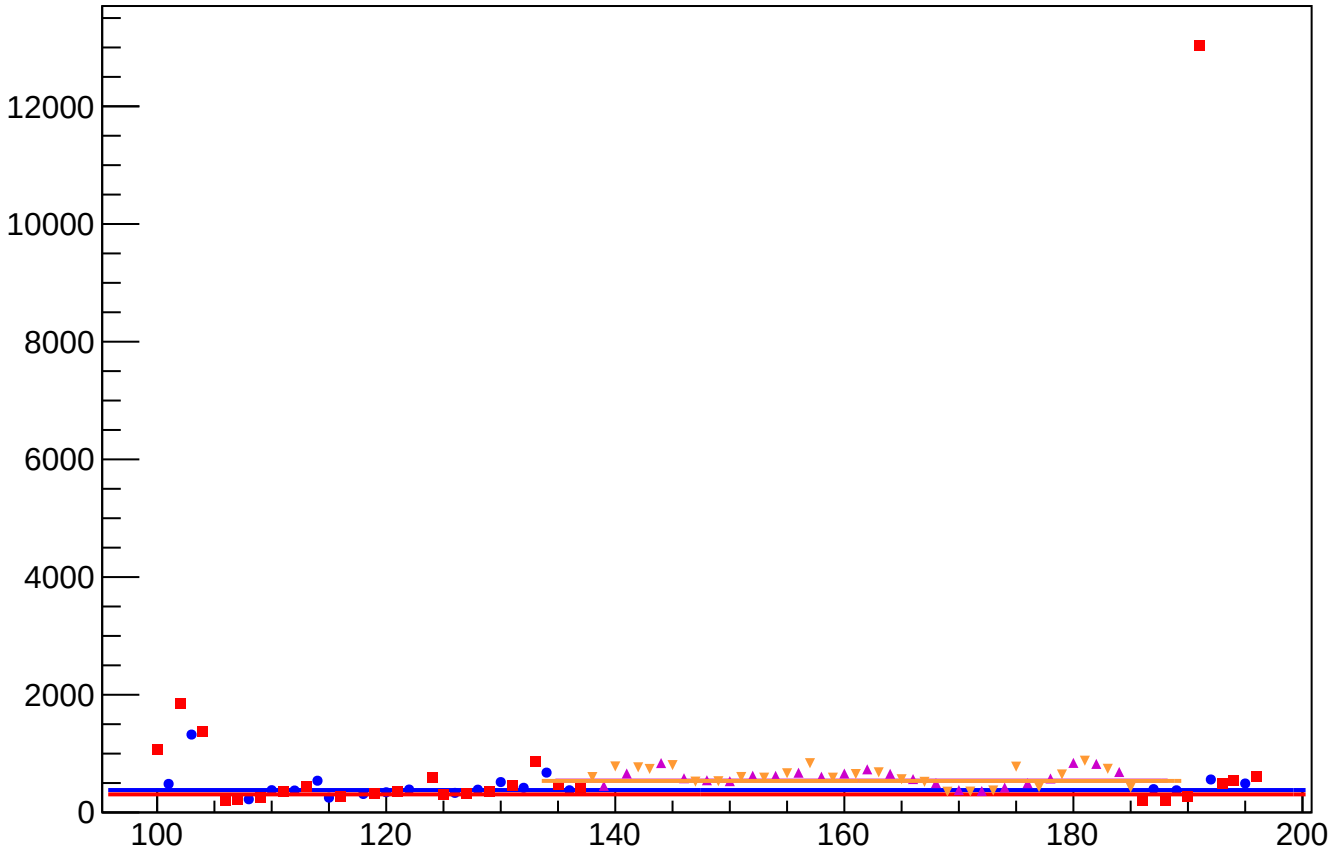
Left: -0.065+/-0.093 $\chi^2$/NDF: 57.6/47

Right: -0.015+/-0.081 $\chi^2$/NDF: 45.6/45

In: -0.183+/-0.093 $\chi^2$/NDF:43.3/42

Out: 0.073+/-0.081 $\chi^2$/NDF:55.7/50

All: -0.036+/-0.061 $\chi^2$/NDF: 103.3/93




Right In: 381.003+/-0.092 $\chi^2$/NDF: 1684805.7/19

Left Out: 535.943+/-0.092 $\chi^2$/NDF:2749736.4/24

Right Out: 307.226+/-0.073 $\chi^2$/NDF: 4239545.3/25

Left In: 540.804+/-0.094 $\chi^2$/NDF:1904998.0/22

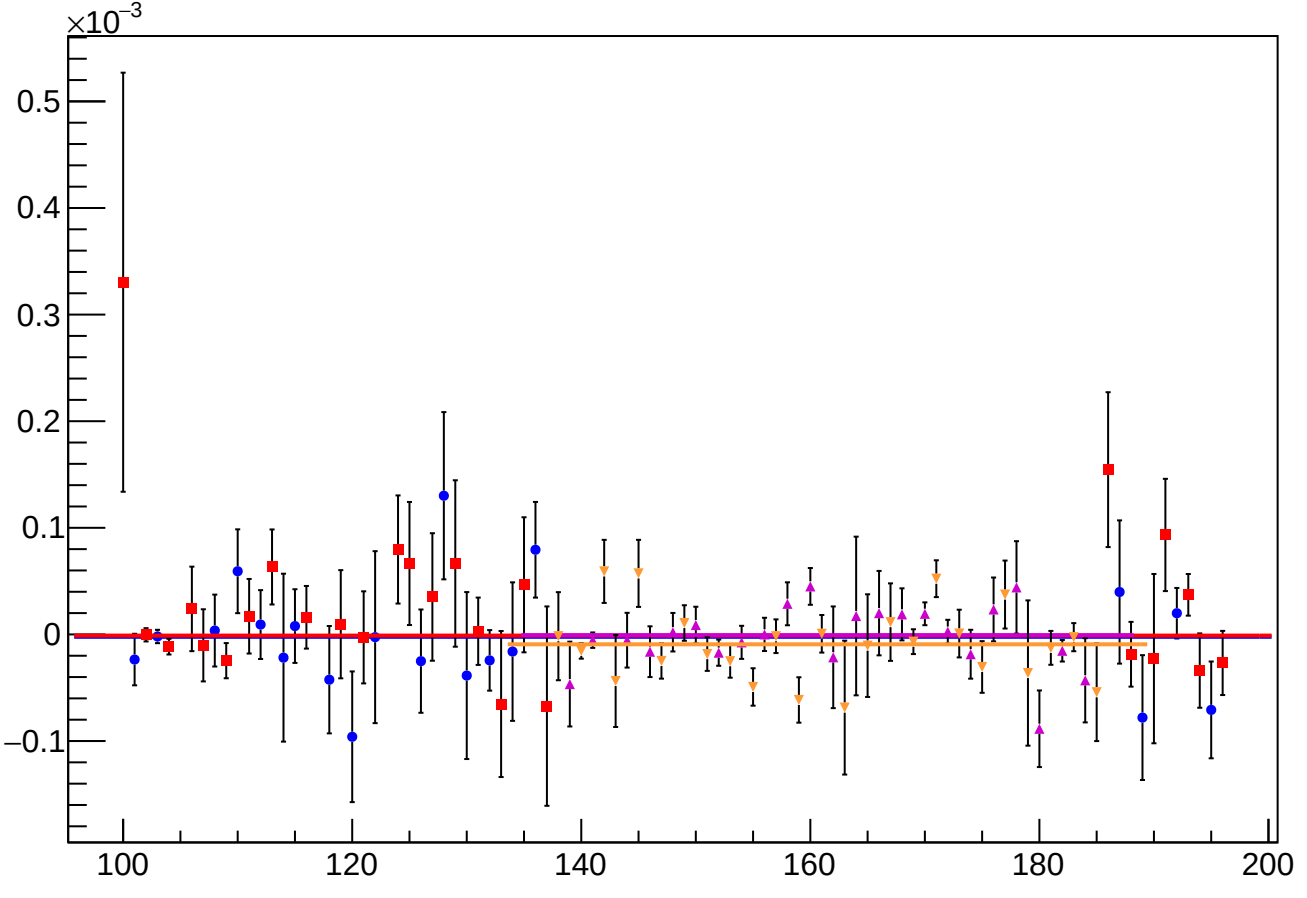
Left: 538.306+/-0.066 $\chi^2$/NDF: 4656104.0/47

Right: 335.486+/-0.057 $\chi^2$/NDF: 6318216.4/45

In: 459.357+/-0.066 $\chi^2$/NDF:5058406.6/42

Out: 395.736+/-0.057 $\chi^2$/NDF:10813622.8/50

All: 422.934+/-0.043 $\chi^2$/NDF: 16405298.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:45.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.0/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:30.0/22

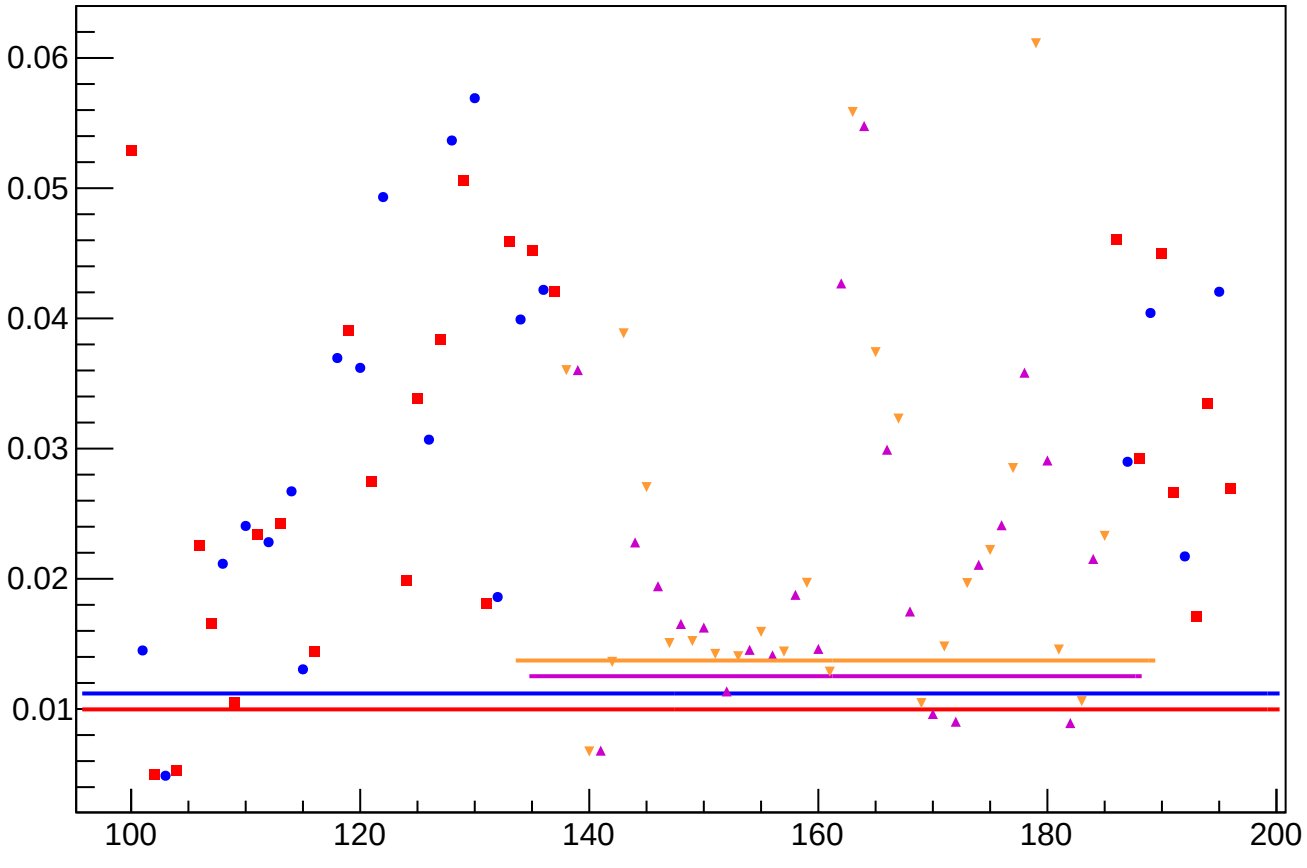
Left: -0.000+/-0.000 $\chi^2$/NDF: 78.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 51.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:49.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:79.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 129.8/93




Right In: 0.011+/-0.000 $\chi^2$/NDF: 9134034.7/19

Left Out: 0.014+/-0.000 $\chi^2$/NDF:7717157.8/24

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 10768880.1/25

Left In: 0.013+/-0.000 $\chi^2$/NDF:7121524.7/22

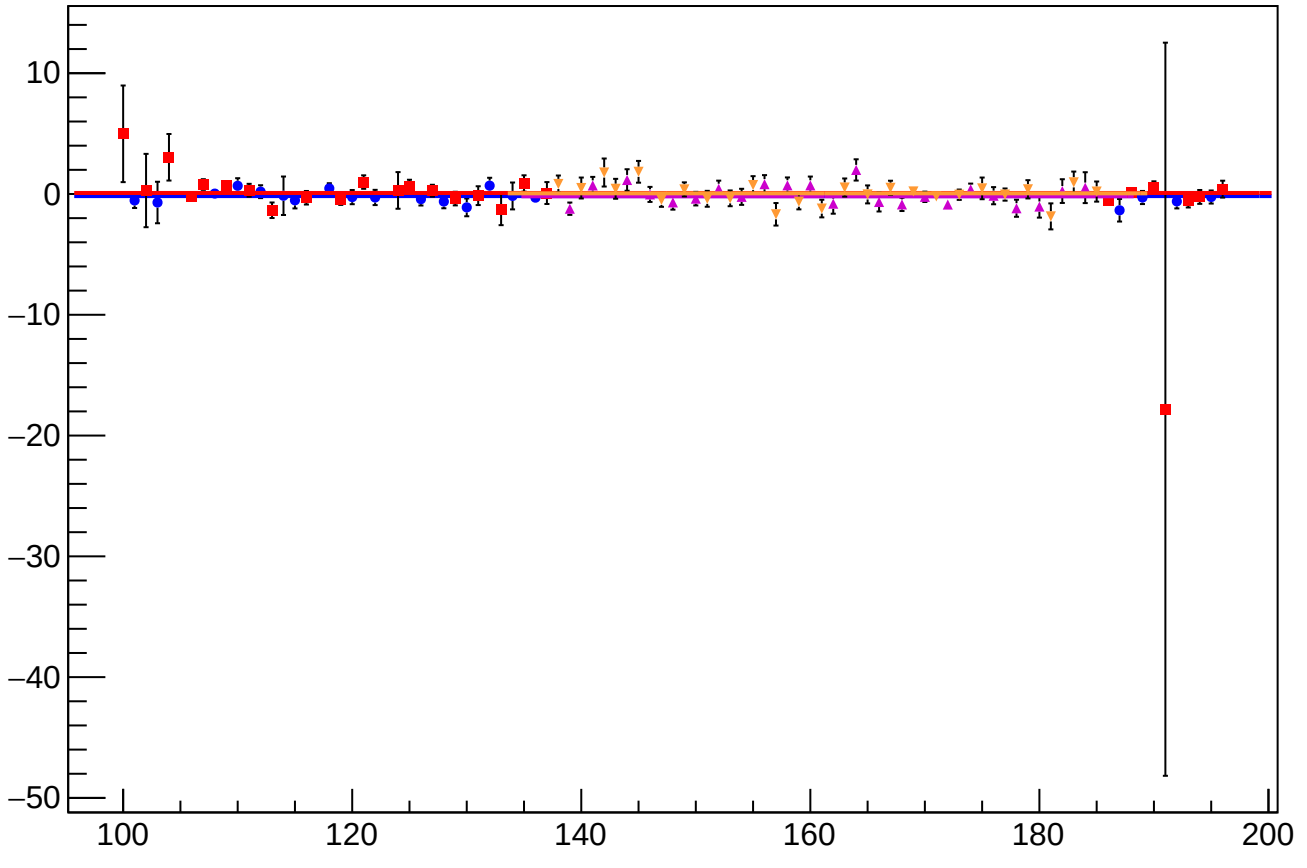
Left: 0.013+/-0.000 $\chi^2$/NDF: 14955984.5/47

Right: 0.010+/-0.000 $\chi^2$/NDF: 19972264.7/45

In: 0.012+/-0.000 $\chi^2$/NDF:16346124.7/42

Out: 0.012+/-0.000 $\chi^2$/NDF:19457986.4/50

All: 0.012+/-0.000 $\chi^2$/NDF: 35804722.3/93




Right In: -0.174+/-0.131 $\chi^2$/NDF: 12.1/19

Left Out: 0.054+/-0.130 $\chi^2$/NDF:24.7/24

Right Out: 0.084+/-0.103 $\chi^2$/NDF: 31.0/25

Left In: -0.191+/-0.133 $\chi^2$/NDF:31.1/22

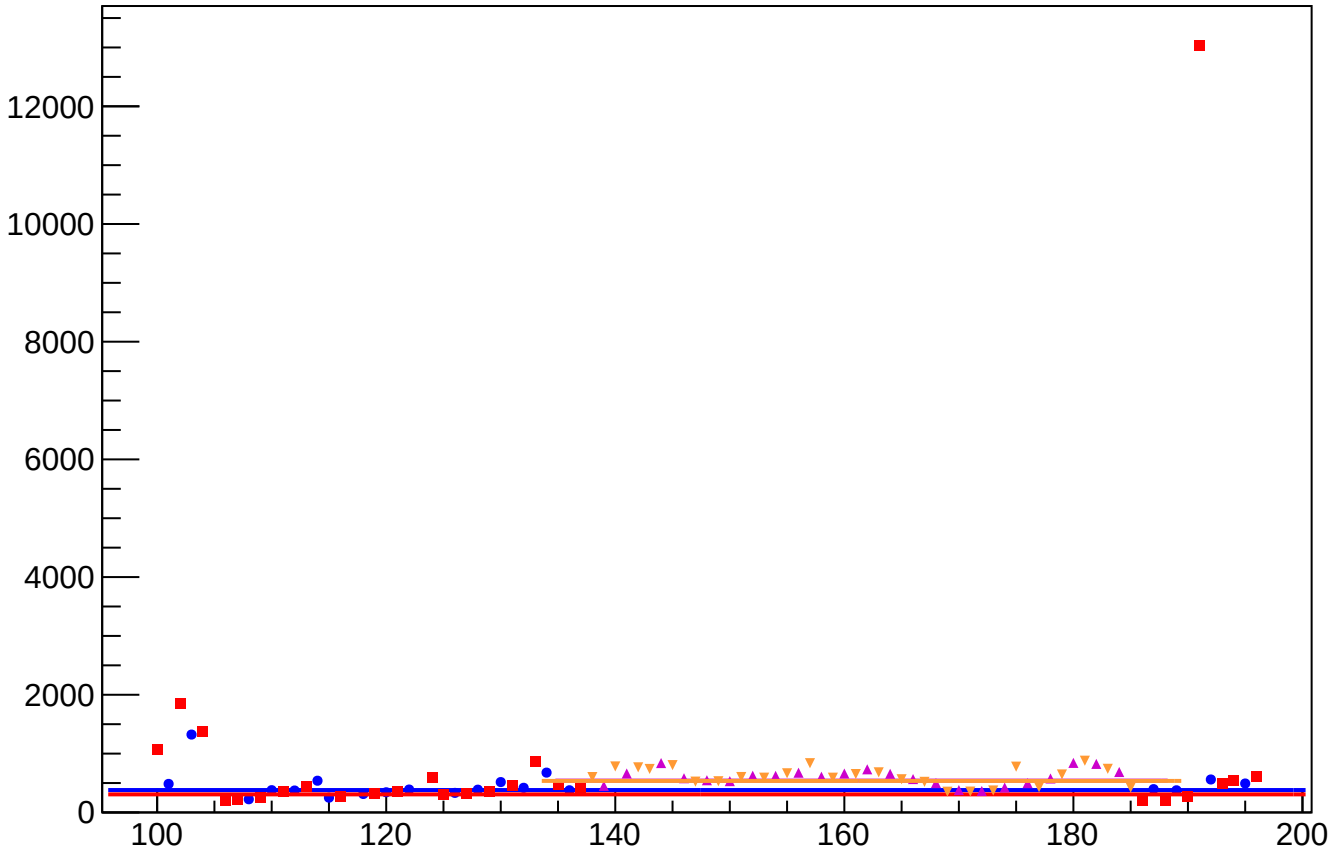
Left: -0.065+/-0.093 $\chi^2$/NDF: 57.6/47

Right: -0.015+/-0.081 $\chi^2$/NDF: 45.6/45

In: -0.183+/-0.093 $\chi^2$/NDF:43.3/42

Out: 0.073+/-0.081 $\chi^2$/NDF:55.7/50

All: -0.036+/-0.061 $\chi^2$/NDF: 103.3/93




Right In: 380.999+/-0.092 $\chi^2$/NDF: 1684808.1/19

Left Out: 535.948+/-0.092 $\chi^2$/NDF:2749816.2/24

Right Out: 307.227+/-0.073 $\chi^2$/NDF: 4239485.0/25

Left In: 540.809+/-0.094 $\chi^2$/NDF:1905035.9/22

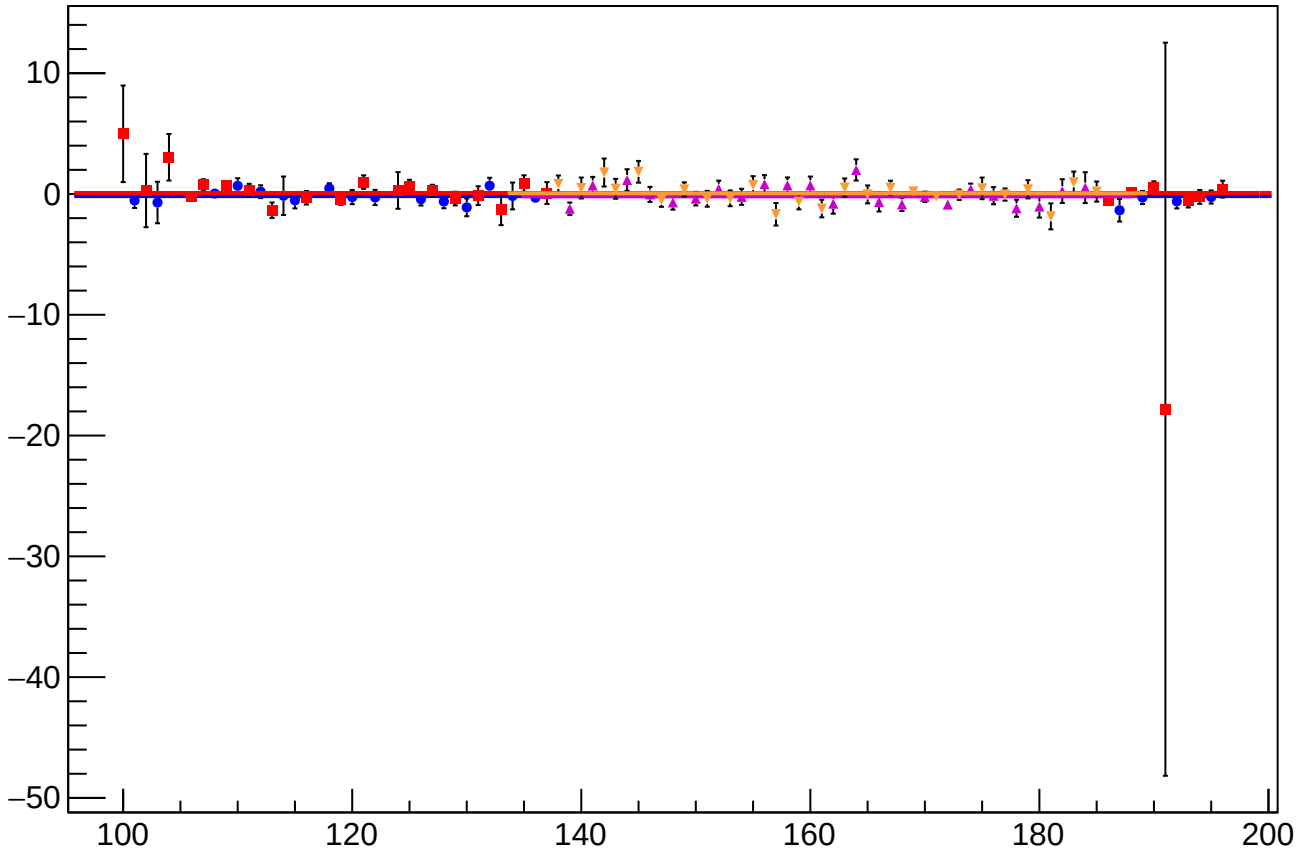
Left: 538.311+/-0.066 $\chi^2$/NDF: 4656222.0/47

Right: 335.485+/-0.057 $\chi^2$/NDF: 6318121.8/45

In: 459.356+/-0.066 $\chi^2$/NDF:5058611.2/42

Out: 395.736+/-0.057 $\chi^2$/NDF:10813756.0/50

All: 422.934+/-0.043 $\chi^2$/NDF: 16405606.9/93




Right In: -0.174+/-0.131 $\chi^2$/NDF: 12.1/19

Left Out: 0.054+/-0.130 $\chi^2$/NDF:24.7/24

Right Out: 0.084+/-0.103 $\chi^2$/NDF: 31.0/25

Left In: -0.191+/-0.133 $\chi^2$/NDF:31.1/22

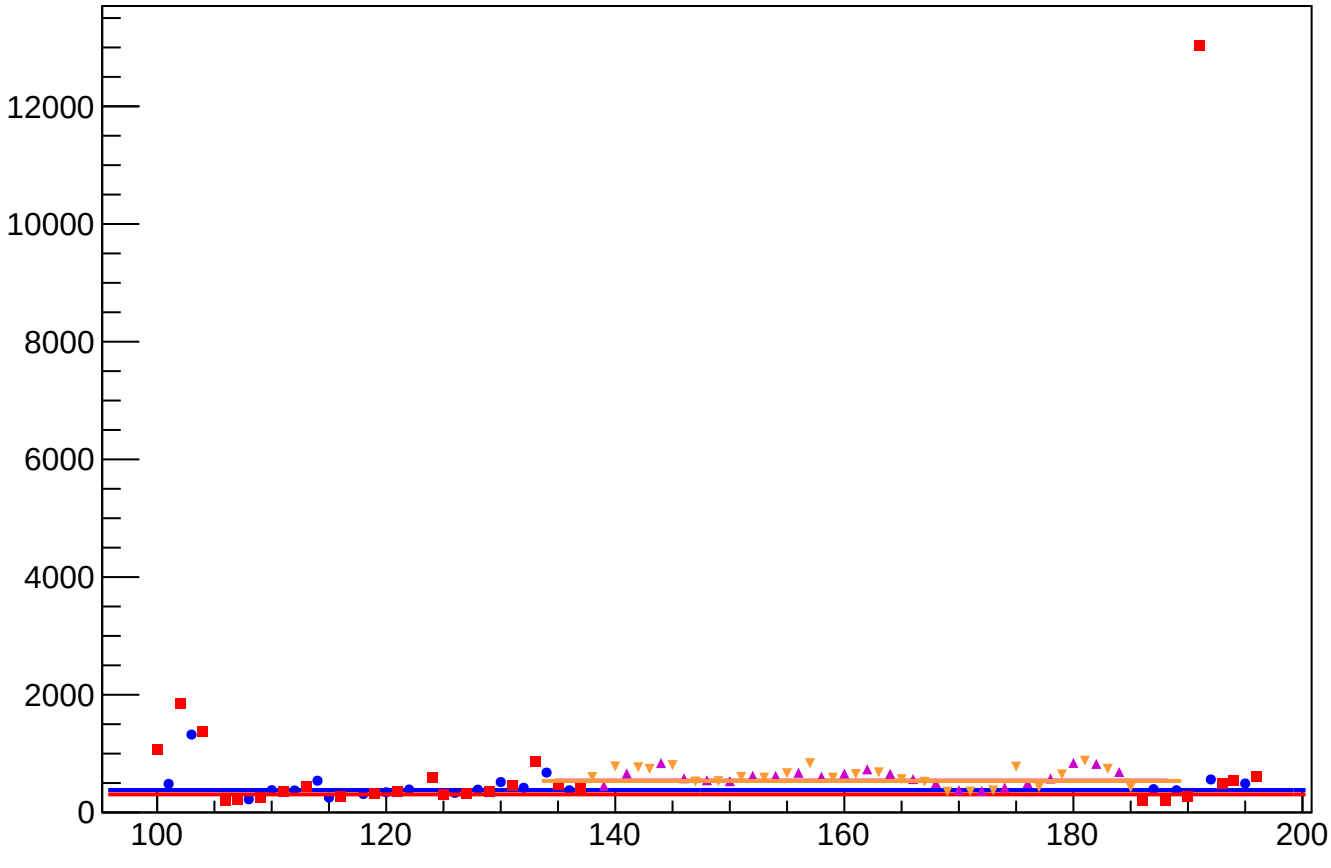
Left: -0.065+/-0.093 $\chi^2$/NDF: 57.6/47

Right: -0.015+/-0.081 $\chi^2$/NDF: 45.6/45

In: -0.183+/-0.093 $\chi^2$/NDF:43.3/42

Out: 0.073+/-0.081 $\chi^2$/NDF:55.7/50

All: -0.036+/-0.061 $\chi^2$/NDF: 103.3/93




Right In: 380.999+/-0.092 $\chi^2$/NDF: 1684808.1/19

Left Out: 535.948+/-0.092 $\chi^2$/NDF:2749816.2/24

Right Out: 307.227+/-0.073 $\chi^2$/NDF: 4239485.0/25

Left In: 540.809+/-0.094 $\chi^2$/NDF:1905035.9/22

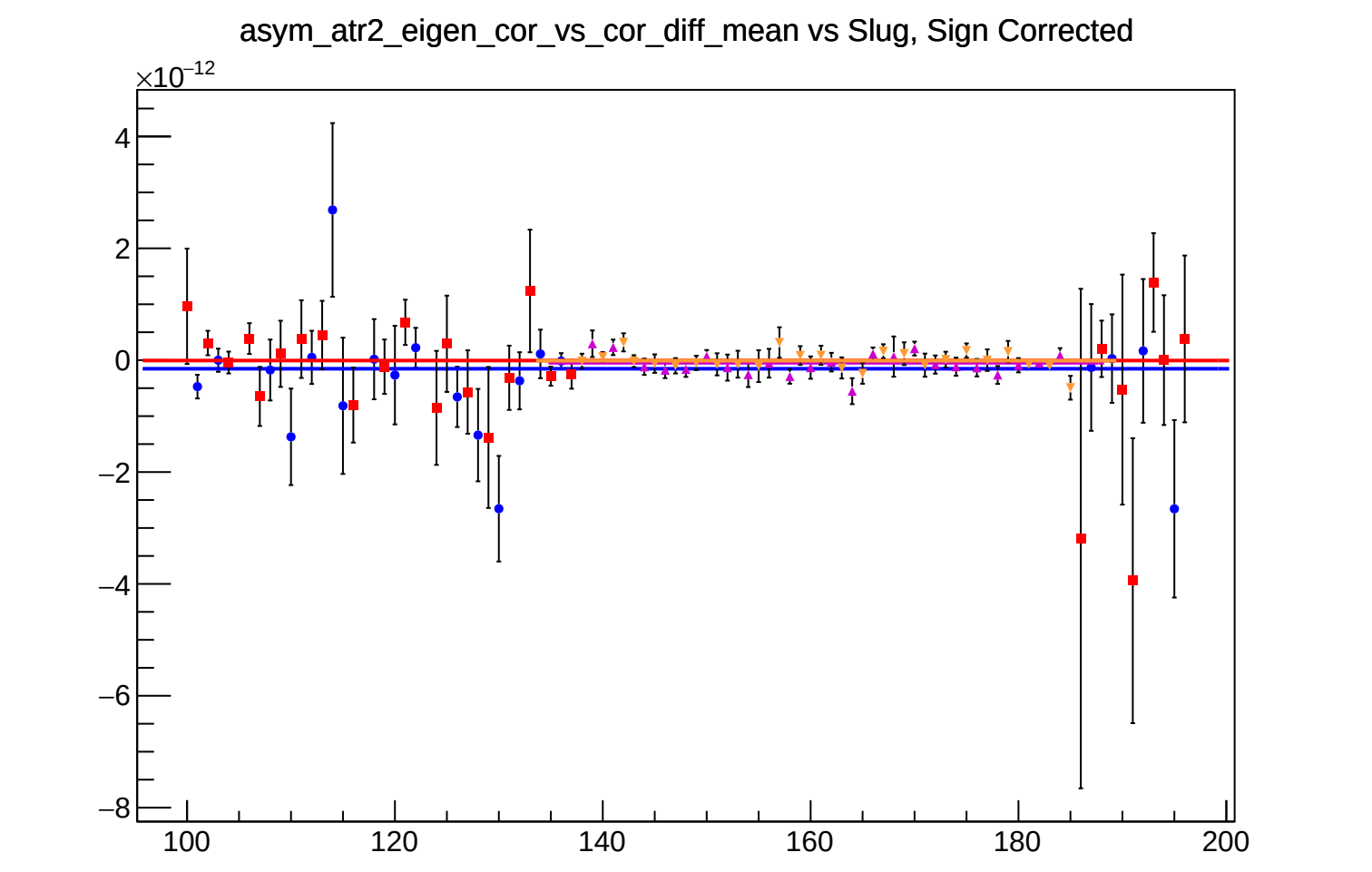
Left: 538.311+/-0.066 $\chi^2$/NDF: 4656222.0/47

Right: 335.485+/-0.057 $\chi^2$/NDF: 6318121.8/45

In: 459.356+/-0.066 $\chi^2$/NDF:5058611.2/42

Out: 395.736+/-0.057 $\chi^2$/NDF:10813756.0/50

All: 422.934+/-0.043 $\chi^2$/NDF: 16405606.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:28.2/22

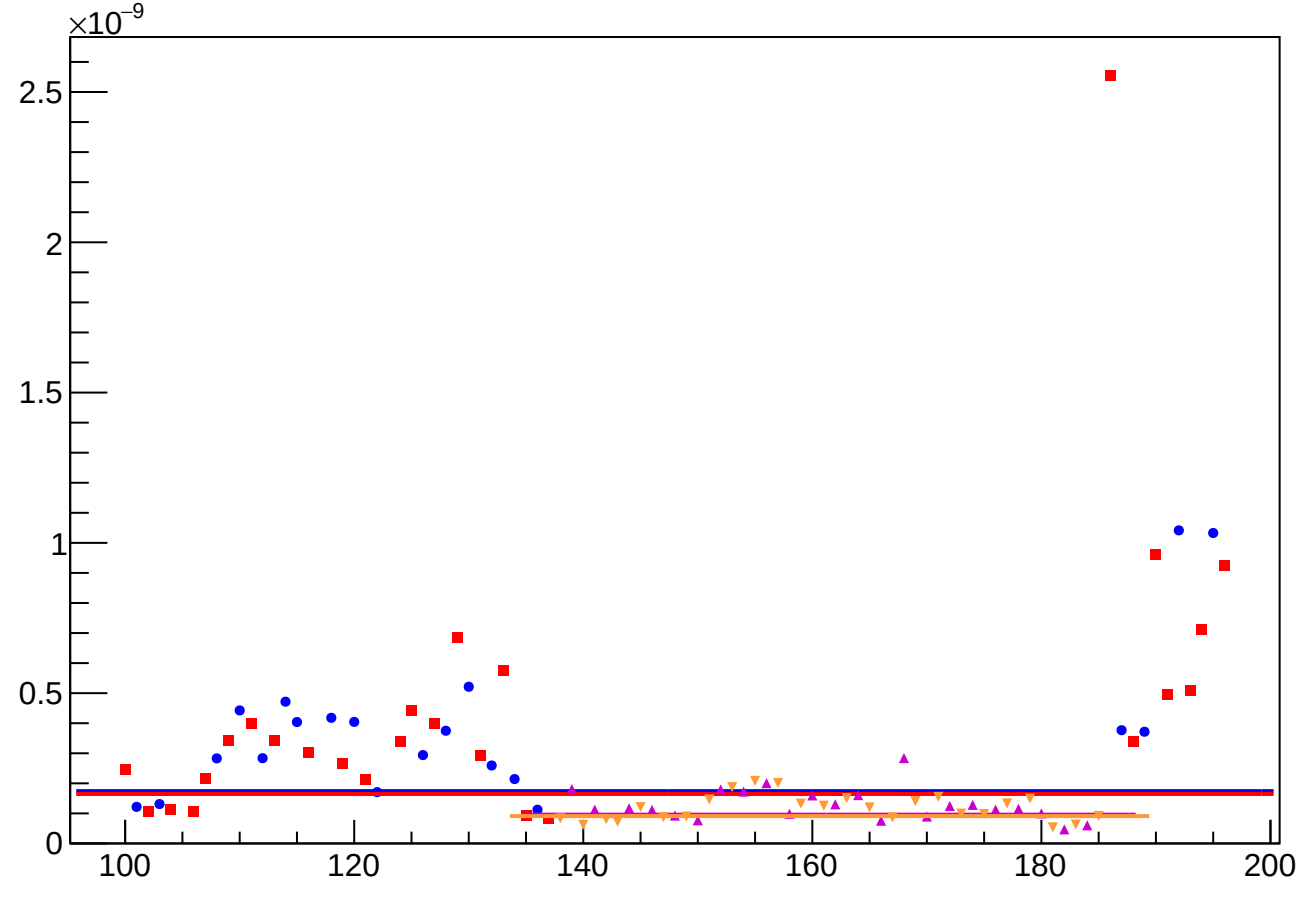
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 50.6/45

In: -0.000+/-0.000 $\chi^2$/NDF:53.4/42

Out: -0.000+/-0.000 $\chi^2$/NDF:47.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 102.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3725707.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3367730.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5330933.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3905784.1/22

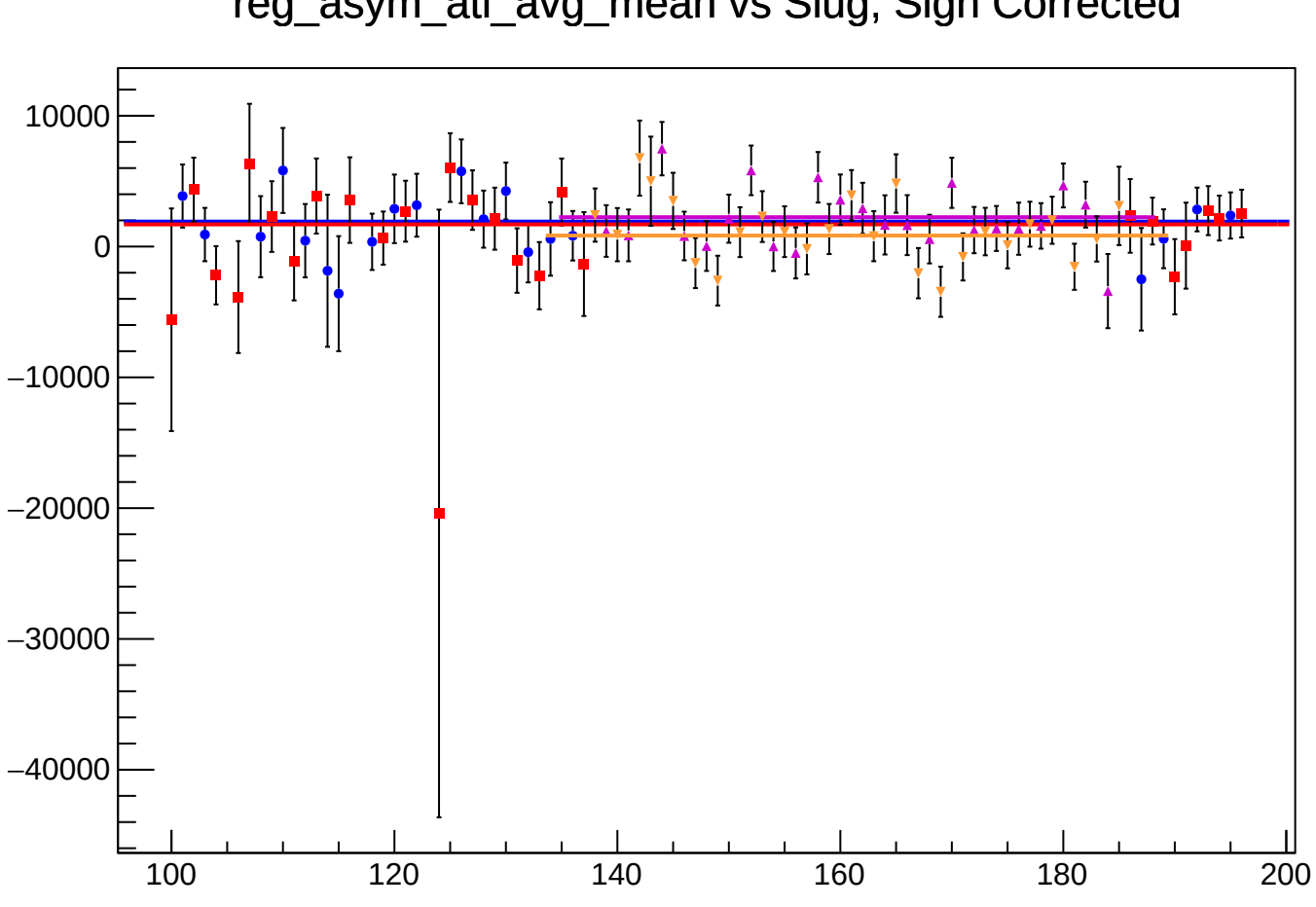
Left: 0.000+/-0.000 $\chi^2$/NDF: 7302418.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9069803.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:9113415.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10154733.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 19307104.5/93




Right In: 1908.744+/-536.328 $\chi^2$/NDF: 12.9/19

Left Out: 841.572+/-394.444 $\chi^2$/NDF:30.4/24

Right Out: 1696.157+/-499.874 $\chi^2$/NDF: 22.3/25

Left In: 2245.041+/-400.753 $\chi^2$/NDF:29.4/22

Left: 1532.172+/-281.118 $\chi^2$/NDF: 66.0/47

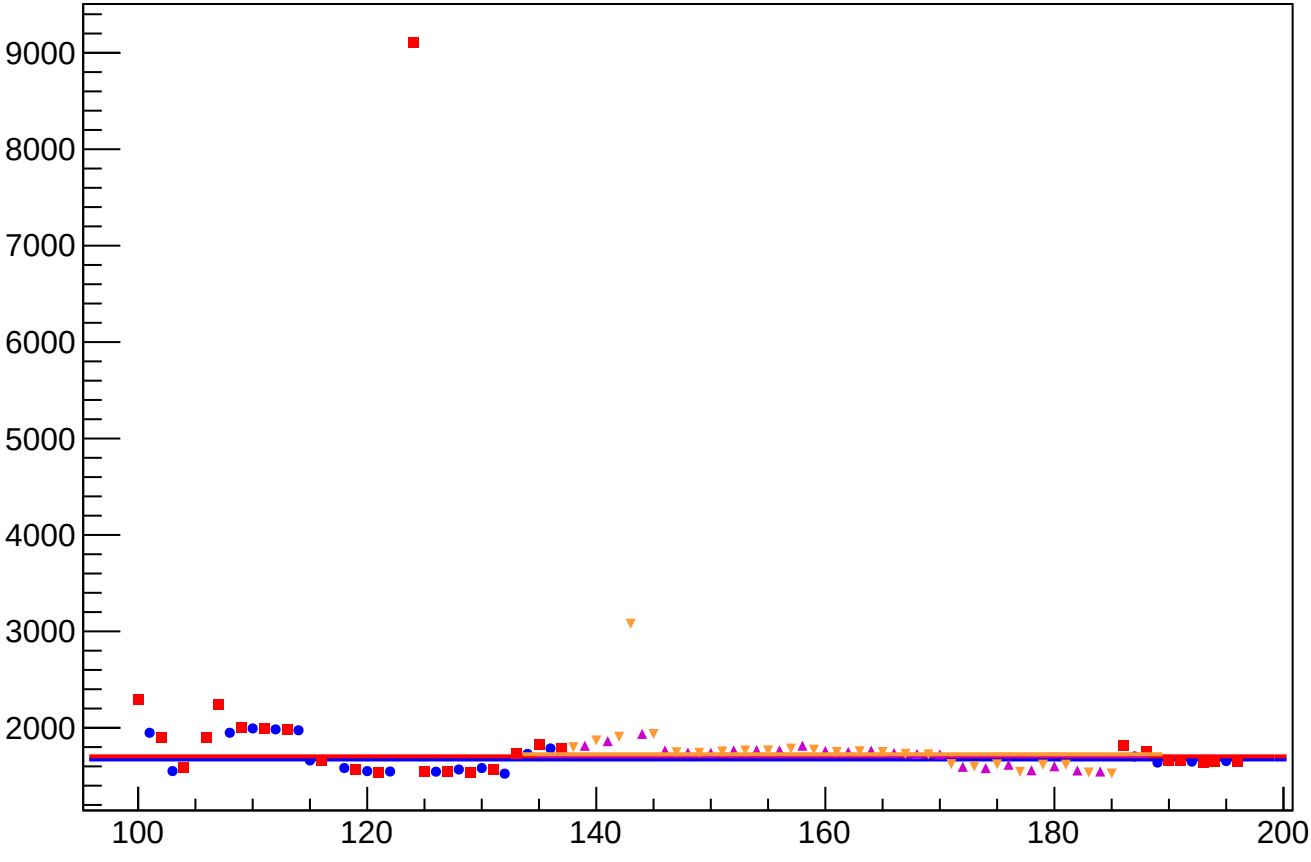
Right: 1794.981+/-365.673 $\chi^2$/NDF: 35.2/45

In: 2124.550+/-321.031 $\chi^2$/NDF:42.5/42

Out: 1169.500+/-309.651 $\chi^2$/NDF:54.5/50

All: 1629.797+/-222.871 $\chi^2$/NDF: 101.6/93

# reg_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1671.629+/-0.379 $\chi^2$/NDF: 142793.7/19

Left Out: 1726.058+/-0.279 $\chi^2$/NDF:454930.8/24

Right Out: 1704.075+/-0.352 $\chi^2$/NDF: 395878.7/25

Left In: 1713.156+/-0.283 $\chi^2$/NDF:129290.6/22

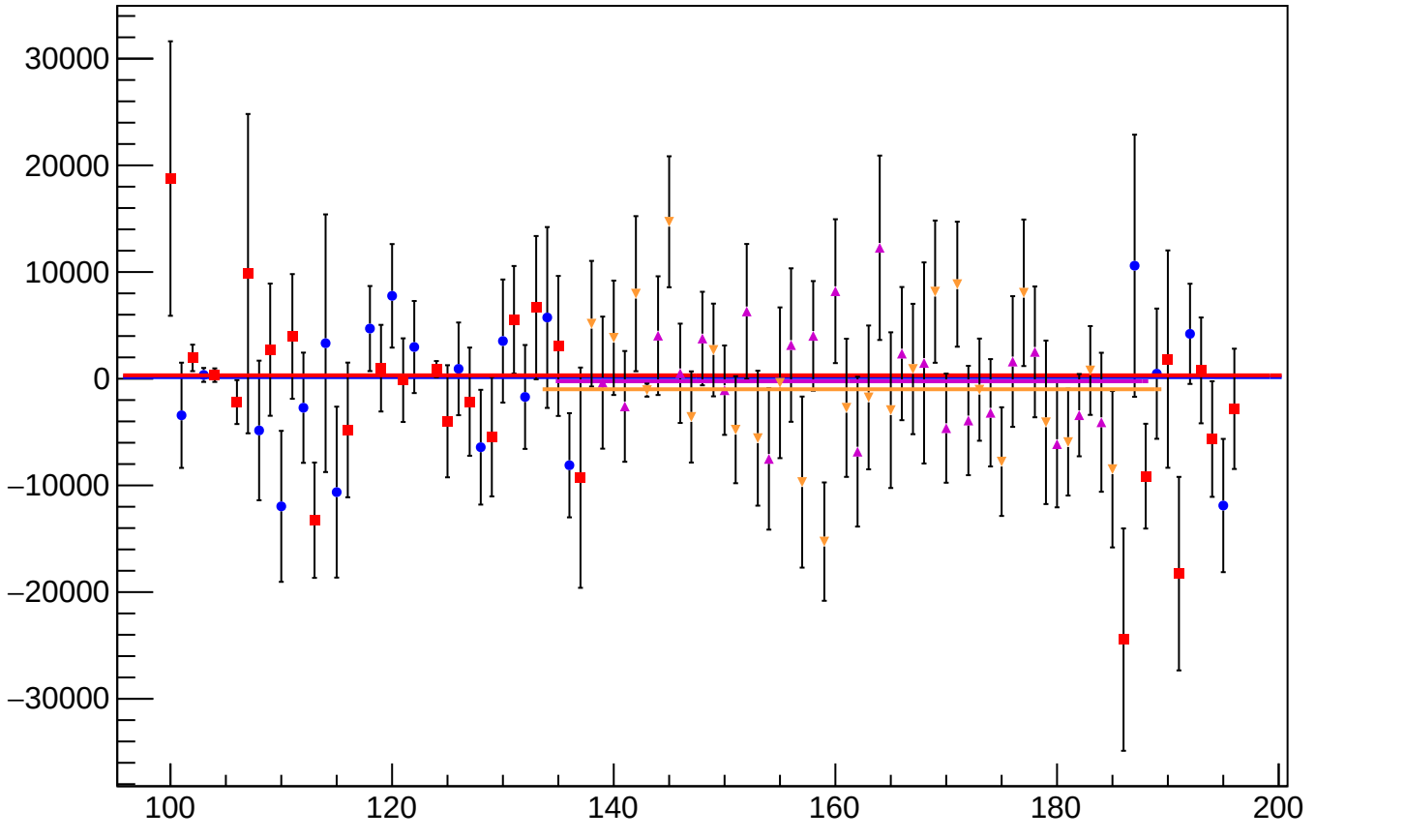
Left: 1719.709+/-0.199 $\chi^2$/NDF: 585274.4/47

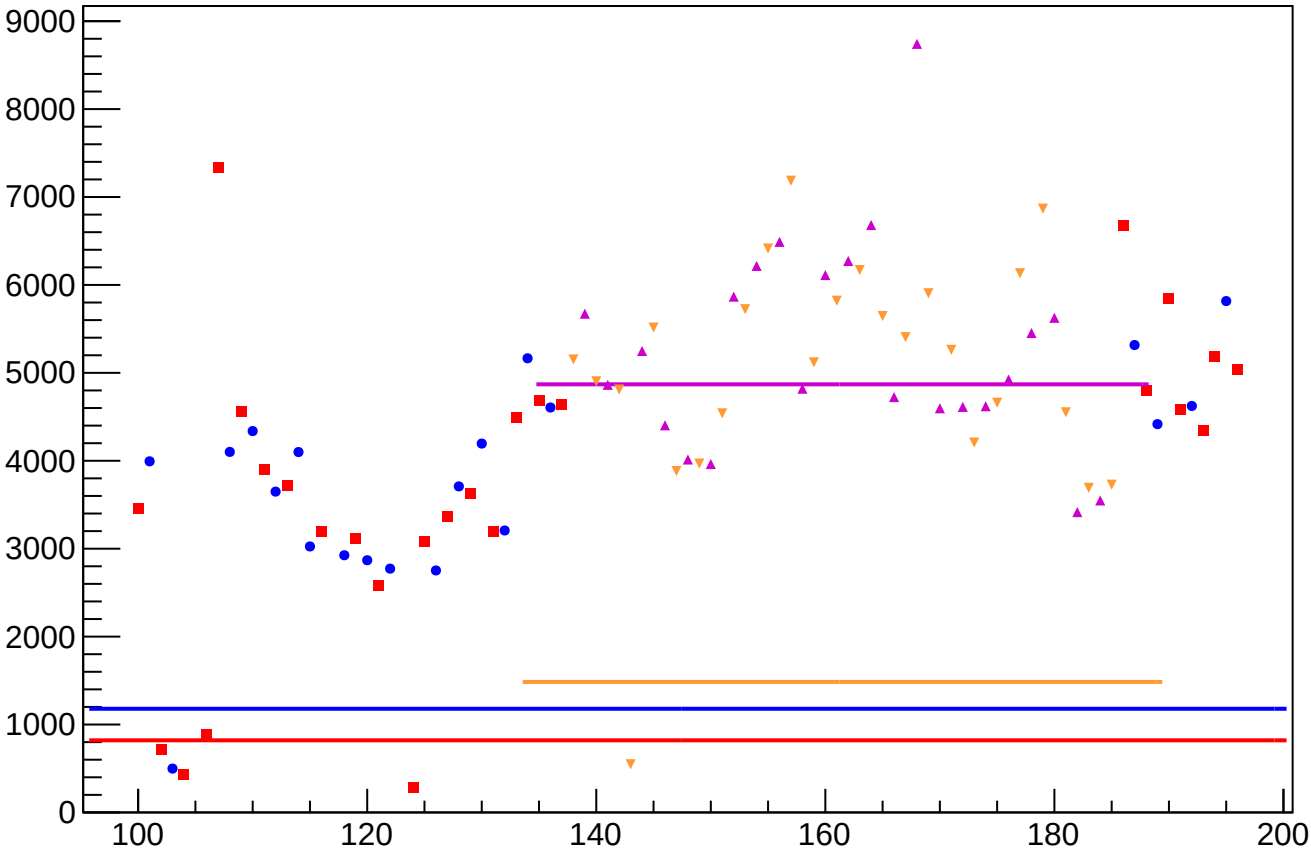
Right: 1689.039+/-0.258 $\chi^2$/NDF: 542599.8/45

In: 1698.277+/-0.227 $\chi^2$/NDF:279778.3/42

Out: 1717.593+/-0.219 $\chi^2$/NDF:853201.7/50

All: 1708.294+/-0.158 $\chi^2$/NDF: 1136734.7/93


asym_atl_avg_reg_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 151.815+/-581.081 χ²/NDF: 21.0/19
Left Out: -987.621+/-541.250 χ²/NDF:30.8/24
Right Out: 319.829+/-418.097 χ²/NDF: 33.9/25
Left In: -239.582+/-1165.046 χ²/NDF:13.5/22
Left: -854.832+/-490.864 χ²/NDF: 44.7/47
Right: 262.518+/-339.378 χ²/NDF: 55.0/45
In: 73.846+/-519.992 χ²/NDF:34.7/42
Out: -168.778+/-330.876 χ²/NDF:68.4/50
All: -98.853+/-279.154 χ²/NDF: 103.2/93




Right In: 1179.402+/-0.411 $\chi^2$/NDF: 11186089.2/19

Left Out: 1484.563+/-0.383 $\chi^2$/NDF:23224946.4/24

Right Out: 820.457+/-0.296 $\chi^2$/NDF: 15031117.0/25

Left In: 4869.707+/-0.824 $\chi^2$/NDF:1474225.9/22

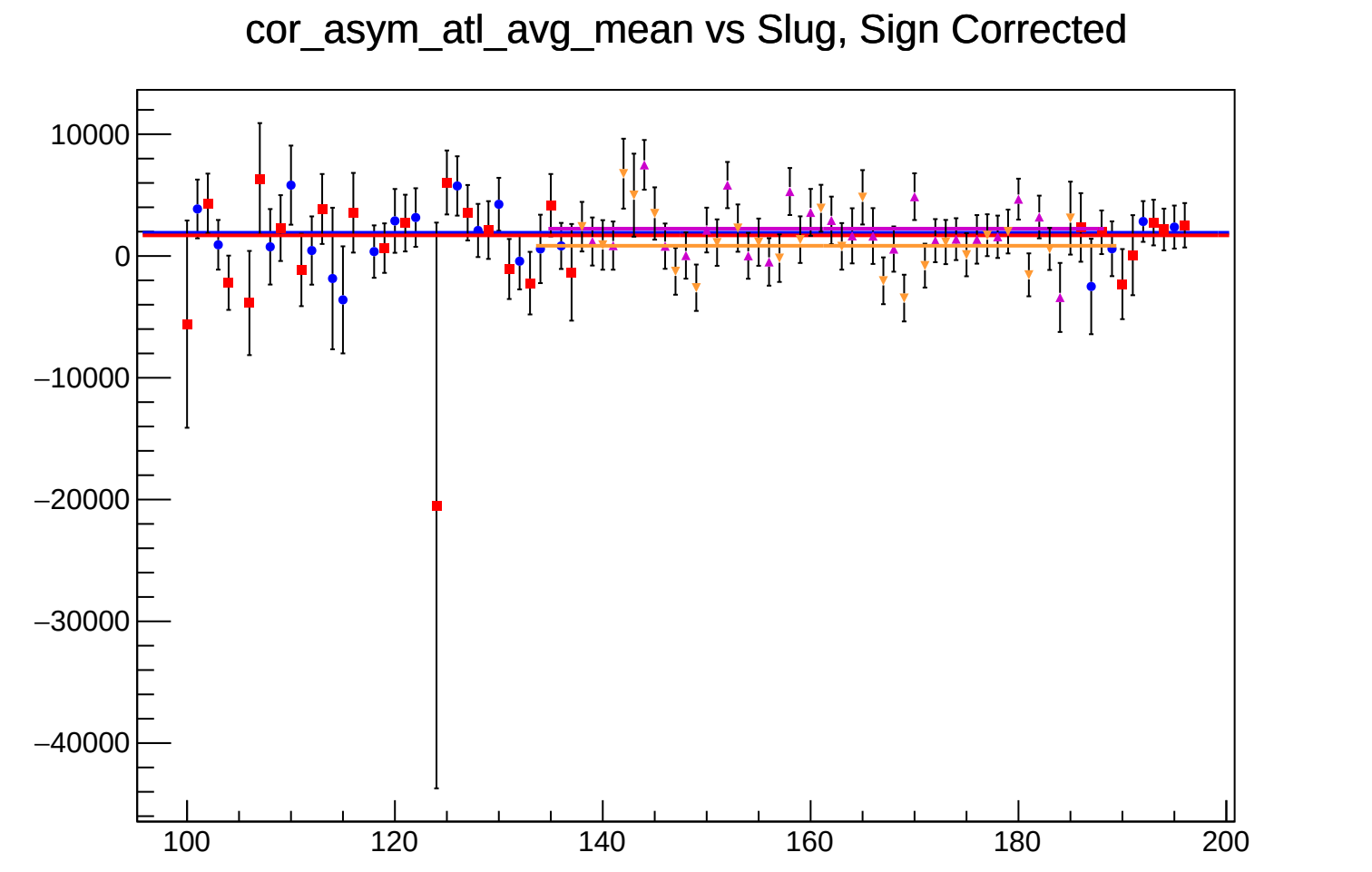
Left: 2085.479+/-0.347 $\chi^2$/NDF: 38586716.8/47

Right: 942.897+/-0.240 $\chi^2$/NDF: 26720042.8/45

In: 1914.539+/-0.368 $\chi^2$/NDF:28729279.0/42

Out: 1068.640+/-0.234 $\chi^2$/NDF:40141818.0/50

All: 1312.428+/-0.197 $\chi^2$/NDF: 72638419.9/9




Right In: 1908.818+/-536.328 $\chi^2$/NDF: 12.9/19

Left Out: 841.564+/-394.444 $\chi^2$/NDF:30.4/24

Right Out: 1694.669+/-499.877 $\chi^2$/NDF: 22.3/25

Left In: 2245.061+/-400.753 $\chi^2$/NDF:29.4/22

Left: 1532.178+/-281.118 $\chi^2$/NDF: 66.0/47

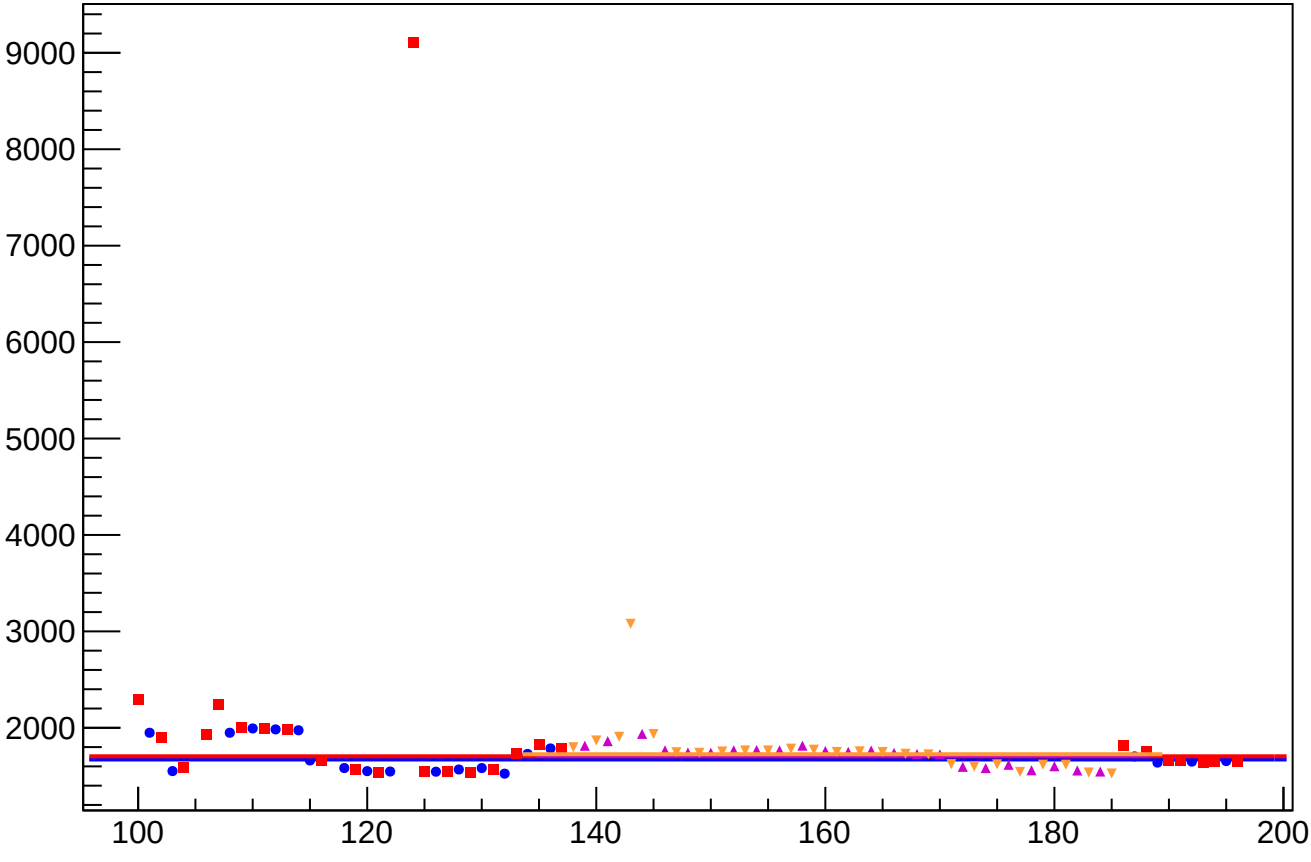
Right: 1794.219+/-365.674 $\chi^2$/NDF: 35.2/45

In: 2124.589+/-321.031 $\chi^2$/NDF:42.5/42

Out: 1168.922+/-309.651 $\chi^2$/NDF:54.4/50

All: 1629.517+/-222.871 $\chi^2$/NDF: 101.6/93

# cor_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1671.629+/-0.379 $\chi^2$/NDF: 142793.7/19

Left Out: 1726.058+/-0.279 $\chi^2$/NDF:454930.8/24

Right Out: 1704.574+/-0.353 $\chi^2$/NDF: 397738.3/25

Left In: 1713.156+/-0.283 $\chi^2$/NDF:129290.6/22

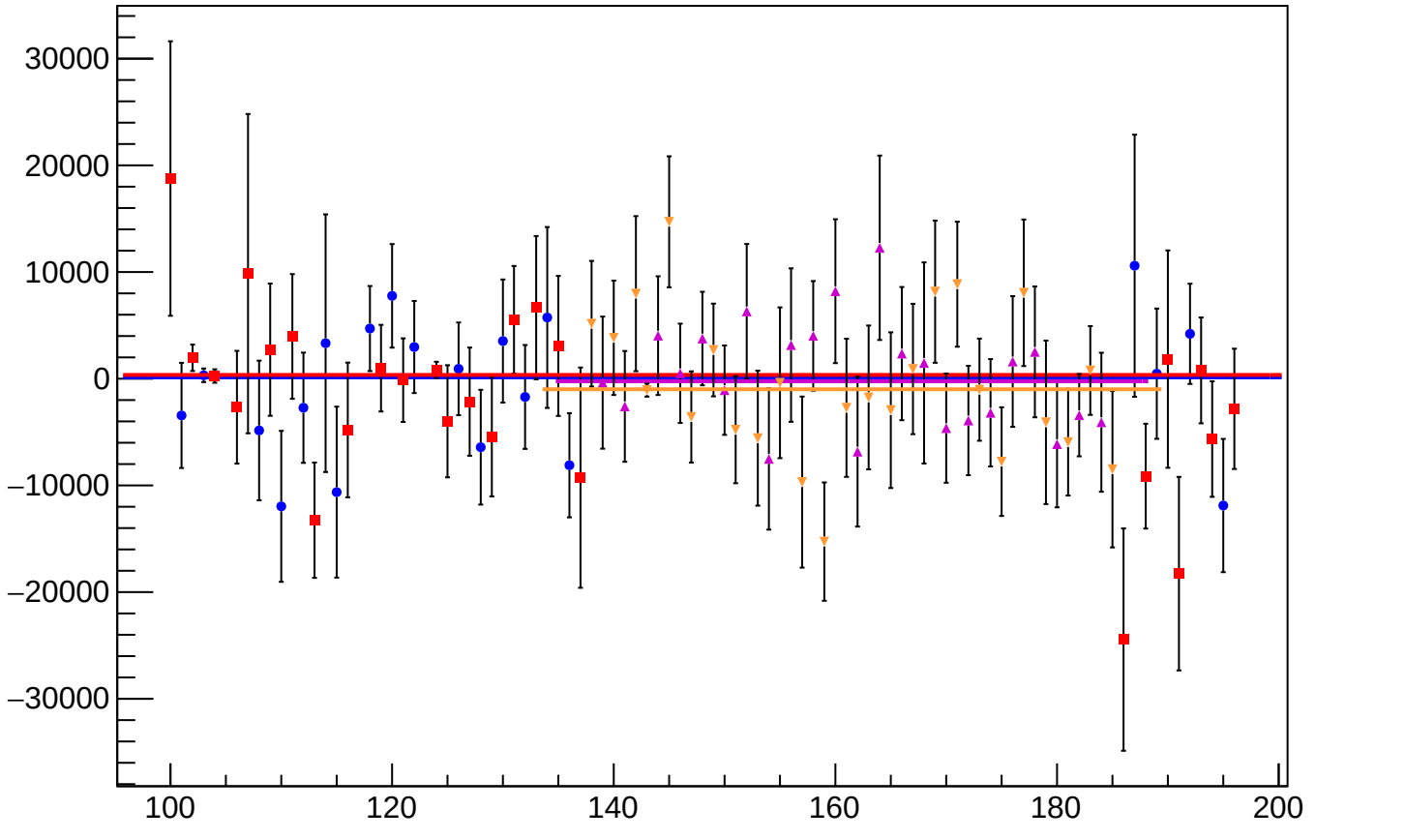
Left: 1719.709+/-0.199 $\chi^2$/NDF: 585274.4/47

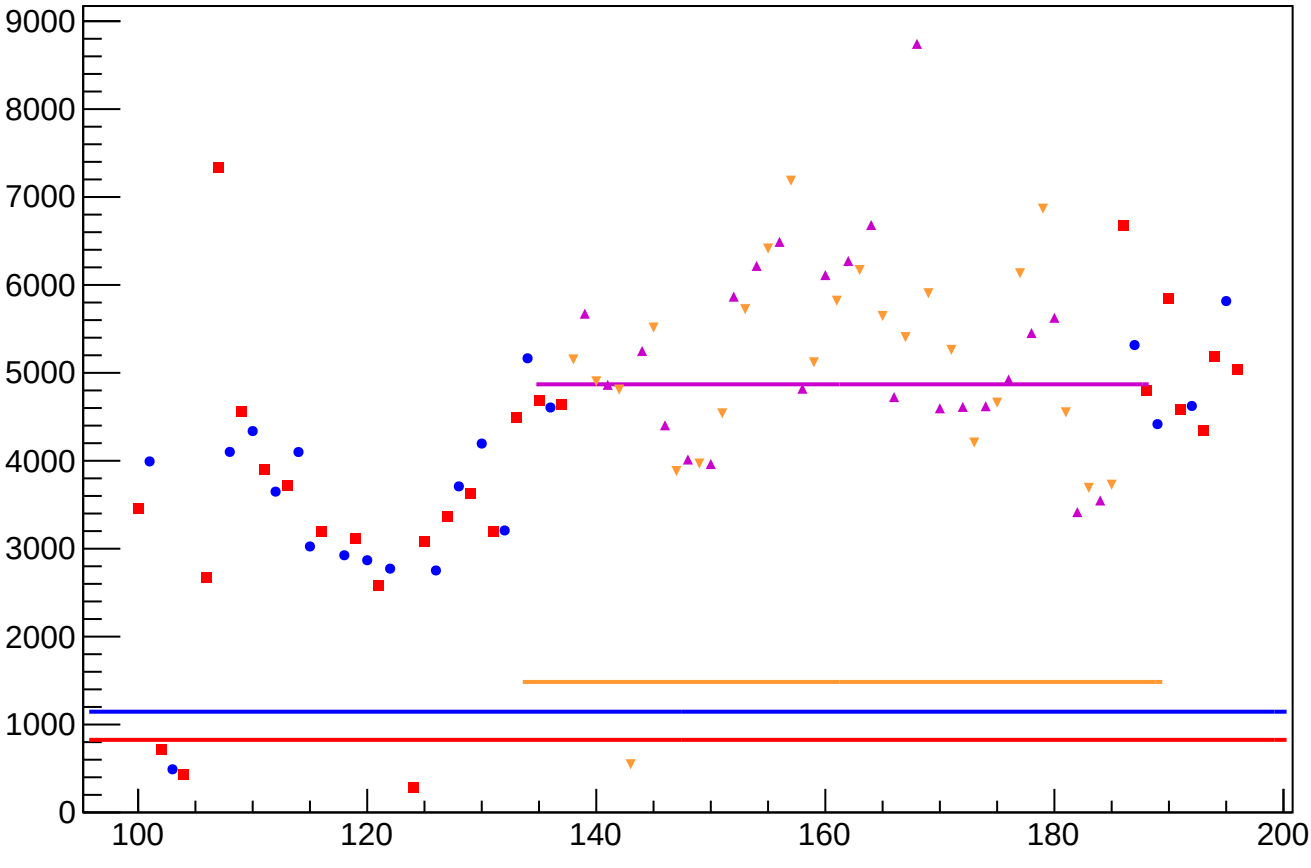
Right: 1689.301+/-0.258 $\chi^2$/NDF: 544579.9/45

In: 1698.277+/-0.227 $\chi^2$/NDF:279778.4/42

Out: 1717.788+/-0.219 $\chi^2$/NDF:854953.2/50

All: 1708.394+/-0.158 $\chi^2$/NDF: 1138562.1/93


asym_atl_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 131.473+/-569.460 χ²/NDF: 21.0/19
Left Out: -987.291+/-541.232 χ²/NDF:30.8/24
Right Out: 353.511+/-423.661 χ²/NDF: 32.6/25
Left In: -239.478+/-1165.045 χ²/NDF:13.5/22
Left: -854.550+/-490.851 χ²/NDF: 44.7/47
Right: 274.402+/-339.910 χ²/NDF: 53.7/45
In: 59.939+/-511.614 χ²/NDF:34.6/42
Out: -155.904+/-333.609 χ²/NDF:67.3/50
All: -91.509+/-279.447 χ²/NDF: 102.0/93




Right In: 1145.966+/-0.403 $\chi^2$/NDF: 11347003.0/19

Left Out: 1484.485+/-0.383 $\chi^2$/NDF:23225570.5/24

Right Out: 825.693+/-0.300 $\chi^2$/NDF: 15299433.9/25

Left In: 4869.699+/-0.824 $\chi^2$/NDF:1474252.6/22

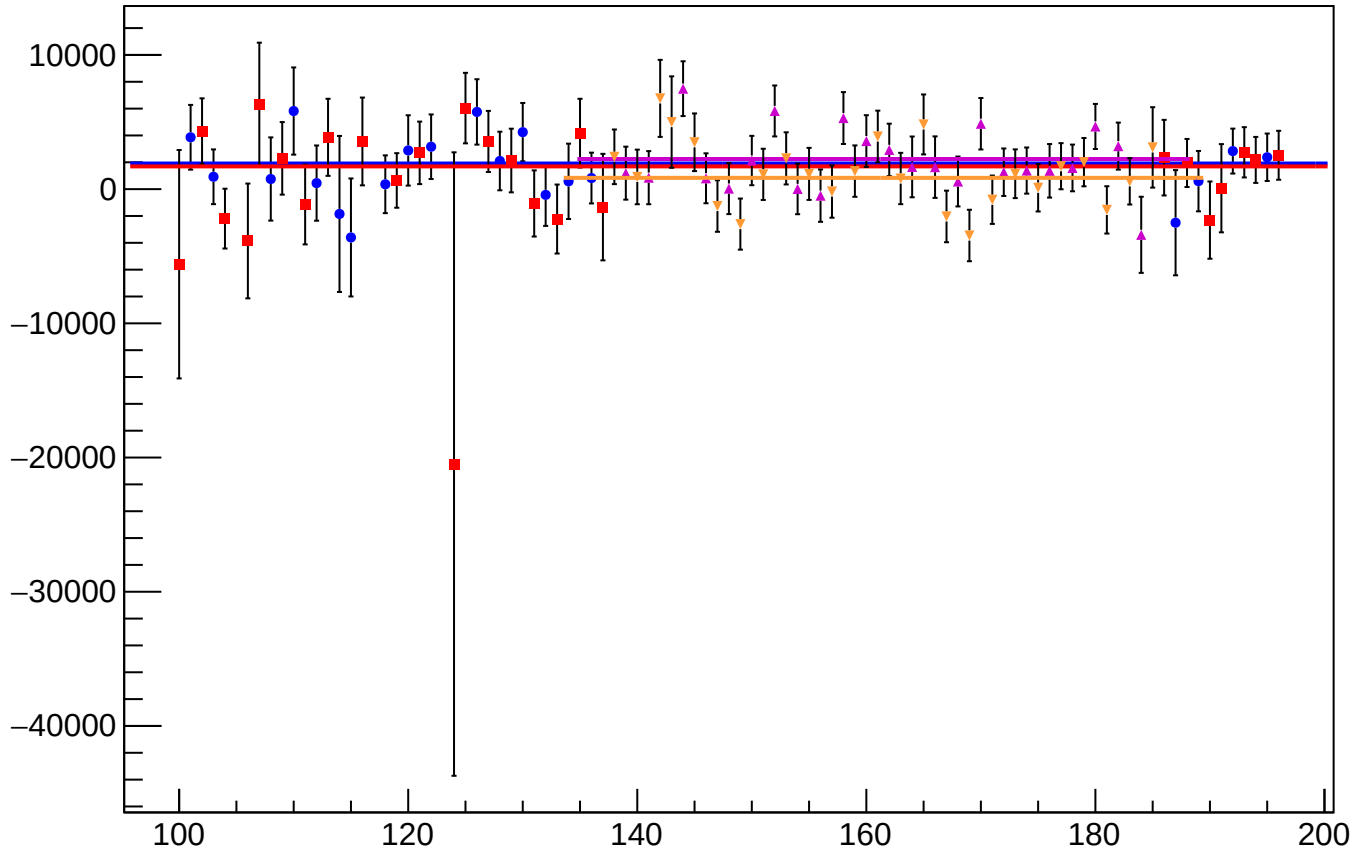
Left: 2085.382+/-0.347 $\chi^2$/NDF: 38588136.1/47

Right: 939.803+/-0.240 $\chi^2$/NDF: 27053663.0/45

In: 1864.055+/-0.362 $\chi^2$/NDF:29312776.3/42

Out: 1075.990+/-0.236 $\chi^2$/NDF:40362374.9/50

All: 1311.103+/-0.198 $\chi^2$/NDF: 73004768.4/9




Right In: 1908.818+/-536.328 $\chi^2$/NDF: 12.9/19

Left Out: 841.564+/-394.444 $\chi^2$/NDF:30.4/24

Right Out: 1694.669+/-499.877 $\chi^2$/NDF: 22.3/25

Left In: 2245.061+/-400.753 $\chi^2$/NDF:29.4/22

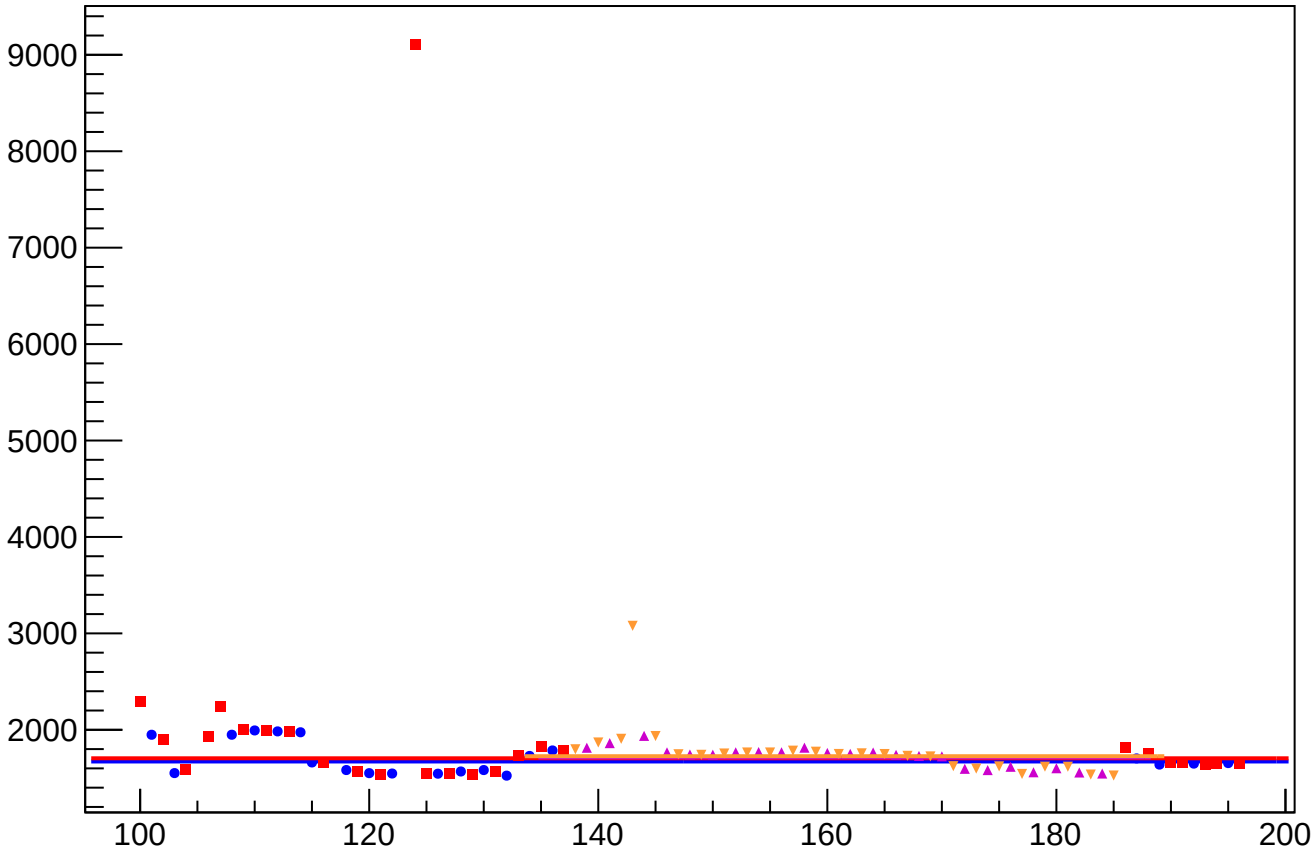
Left: 1532.178+/-281.118 $\chi^2$/NDF: 66.0/47

Right: 1794.219+/-365.674 $\chi^2$/NDF: 35.2/45

In: 2124.589+/-321.031 $\chi^2$/NDF:42.5/42

Out: 1168.922+/-309.651 $\chi^2$/NDF:54.4/50

All: 1629.517+/-222.871 $\chi^2$/NDF: 101.6/93




Right In: 1671.629+/-0.379 $\chi^2$/NDF: 142793.7/19

Left Out: 1726.058+/-0.279 $\chi^2$/NDF:454930.8/24

Right Out: 1704.574+/-0.353 $\chi^2$/NDF: 397738.3/25

Left In: 1713.156+/-0.283 $\chi^2$/NDF:129290.6/22

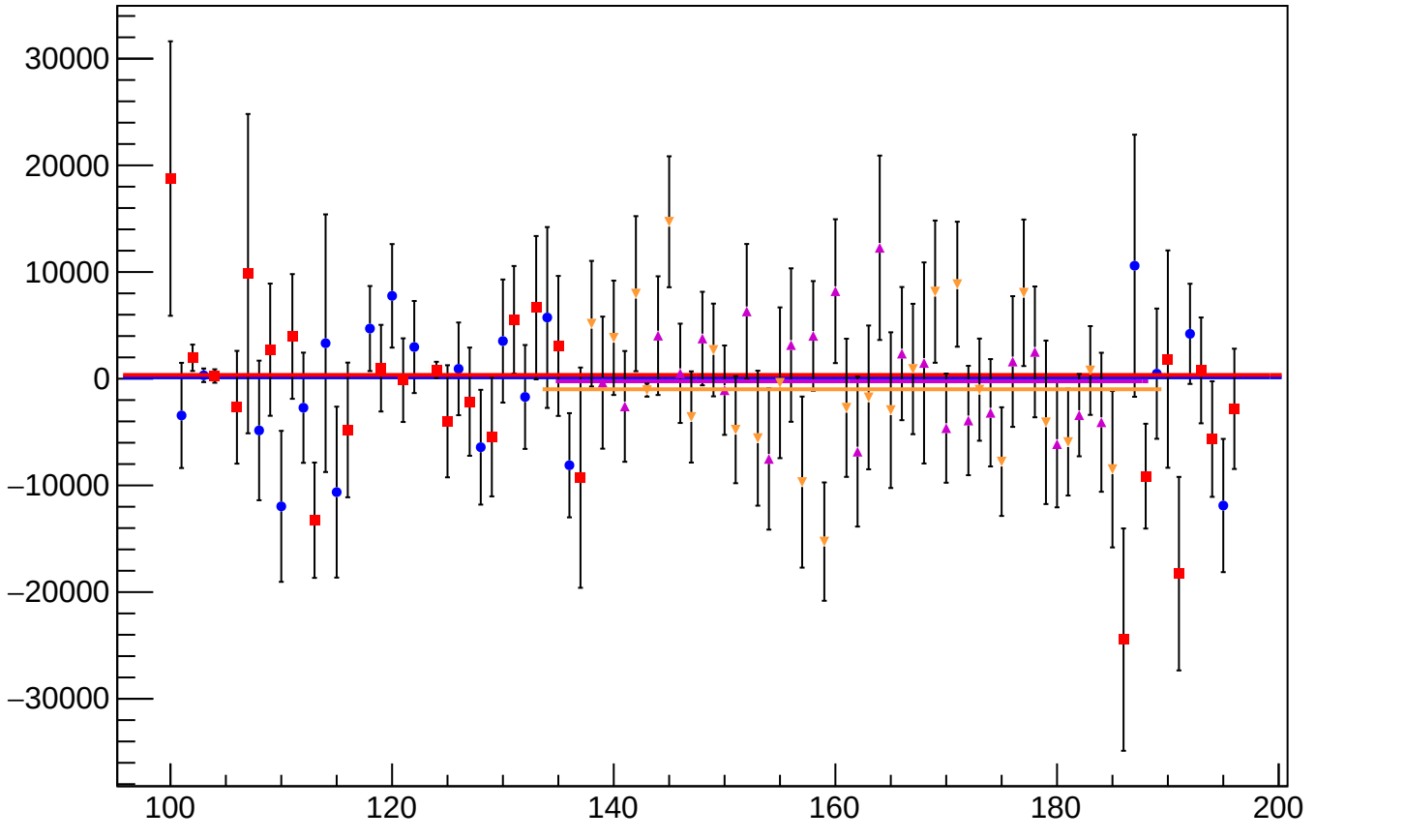
Left: 1719.709+/-0.199 $\chi^2$/NDF: 585274.4/47

Right: 1689.301+/-0.258 $\chi^2$/NDF: 544579.9/45

In: 1698.277+/-0.227 $\chi^2$/NDF:279778.4/42

Out: 1717.788+/-0.219 $\chi^2$/NDF:854953.2/50

All: 1708.394+/-0.158 $\chi^2$/NDF: 1138562.1/93




Right In: 131.473+/-569.460 $\chi^2$/NDF: 21.0/19

Left Out: -987.291+/-541.232 $\chi^2$/NDF:30.8/24

Right Out: 353.511+/-423.661 $\chi^2$/NDF: 32.6/25

Left In: -239.478+/-1165.045 $\chi^2$/NDF:13.5/22

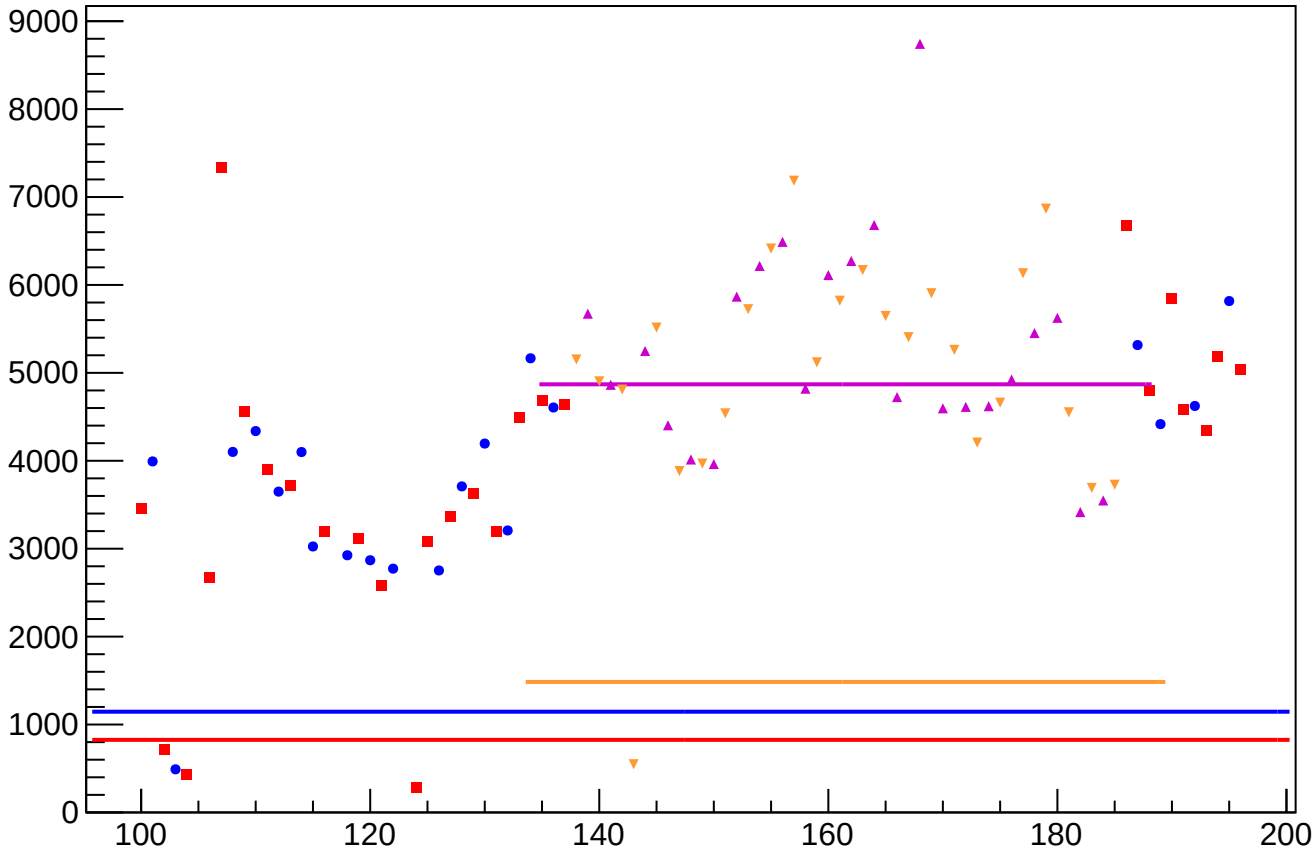
Left: -854.550+/-490.851 $\chi^2$/NDF: 44.7/47

Right: 274.402+/-339.910 $\chi^2$/NDF: 53.7/45

In: 59.939+/-511.614 $\chi^2$/NDF:34.6/42

Out: -155.904+/-333.609 $\chi^2$/NDF:67.3/50

All: -91.509+/-279.447 $\chi^2$/NDF: 102.0/93




Right In: 1145.966+/-0.403 $\chi^2$/NDF: 11347003.0/19

Left Out: 1484.485+/-0.383 $\chi^2$/NDF:23225570.5/24

Right Out: 825.693+/-0.300 $\chi^2$/NDF: 15299433.9/25

Left In: 4869.699+/-0.824 $\chi^2$/NDF:1474252.6/22

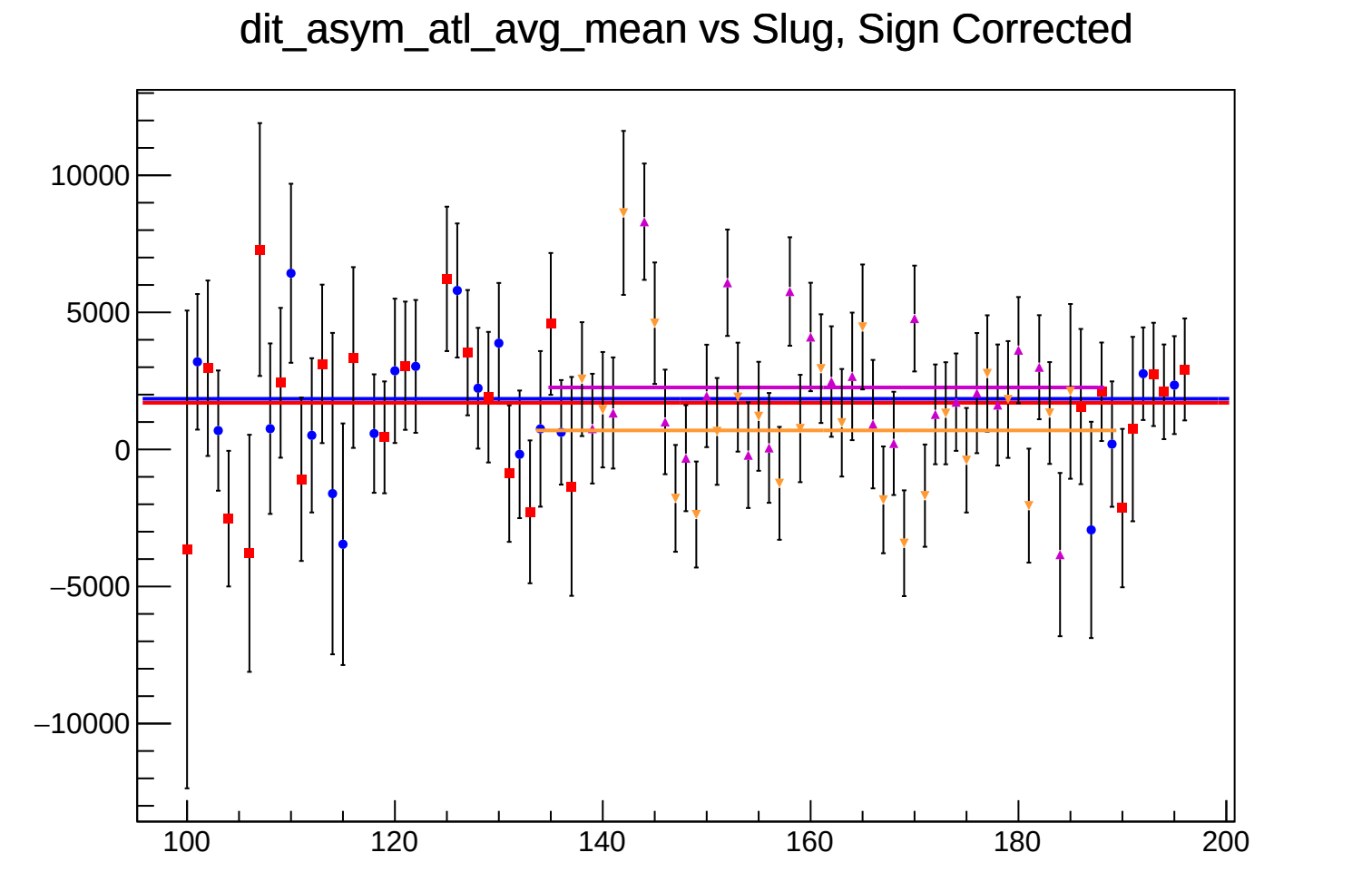
Left: 2085.382+/-0.347 $\chi^2$/NDF: 38588136.1/47

Right: 939.803+/-0.240 $\chi^2$/NDF: 27053663.0/45

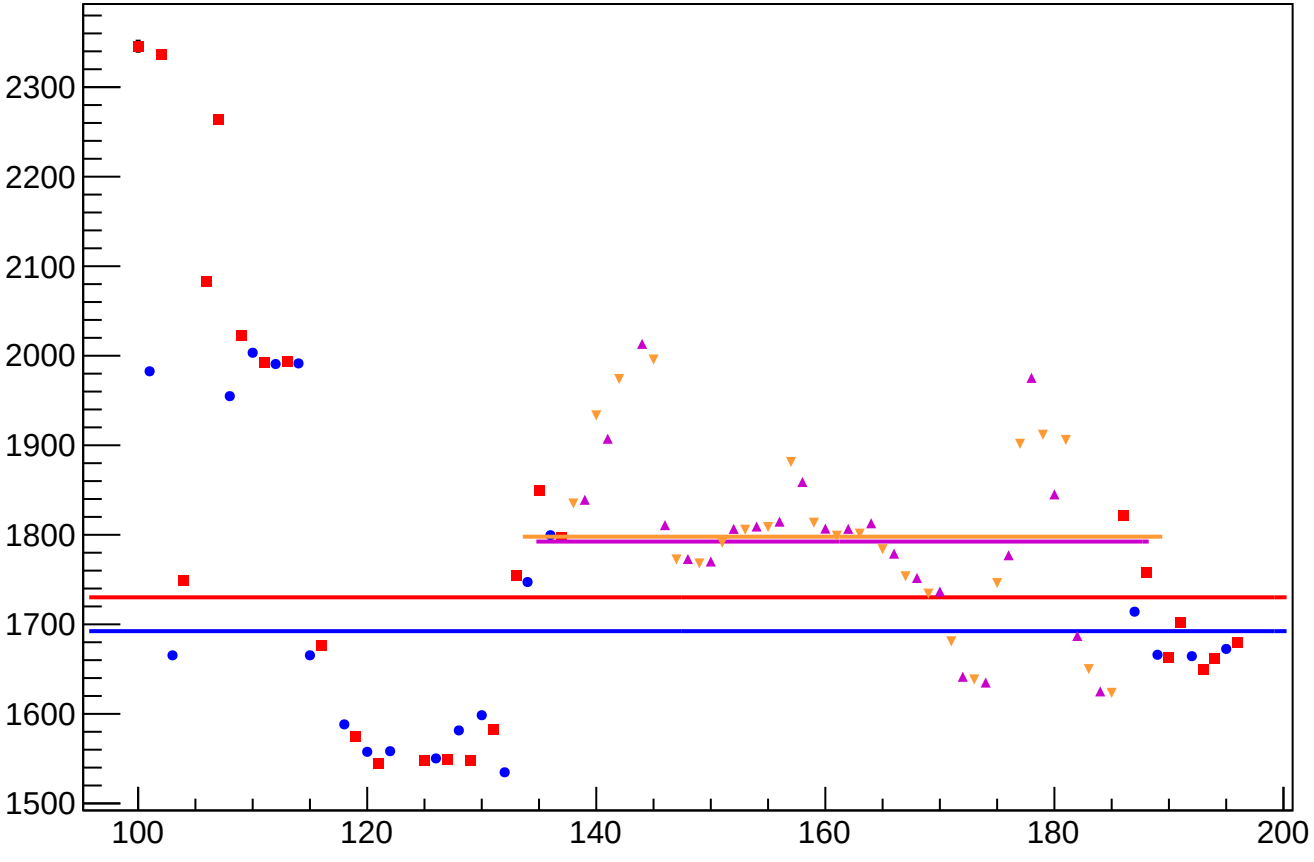
In: 1864.055+/-0.362 $\chi^2$/NDF:29312776.3/42

Out: 1075.990+/-0.236 $\chi^2$/NDF:40362374.9/50

All: 1311.103+/-0.198 $\chi^2$/NDF: 73004768.4/9


dit_asym_atl_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: 1847.177+/-543.256 χ²/NDF: 12.6/19
Left Out: 694.317+/-418.051 χ²/NDF:32.2/23
Right Out: 1700.453+/-510.500 χ²/NDF: 20.2/24
Left In: 2261.767+/-419.177 χ²/NDF:30.4/22
Left: 1475.934+/-296.004 χ²/NDF: 69.6/46
Right: 1769.259+/-372.019 χ²/NDF: 32.8/44
In: 2107.048+/-331.869 χ²/NDF:43.4/42
Out: 1098.194+/-323.439 χ²/NDF:54.7/48
All: 1589.645+/-231.629 χ²/NDF: 102.8/91

# dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1692.393+/-0.384 $\chi^2$/NDF: 136853.3/19

Left Out: 1797.909+/-0.296 $\chi^2$/NDF:98002.1/23

Right Out: 1730.184+/-0.360 $\chi^2$/NDF: 262284.1/24

Left In: 1792.450+/-0.296 $\chi^2$/NDF:92875.2/22

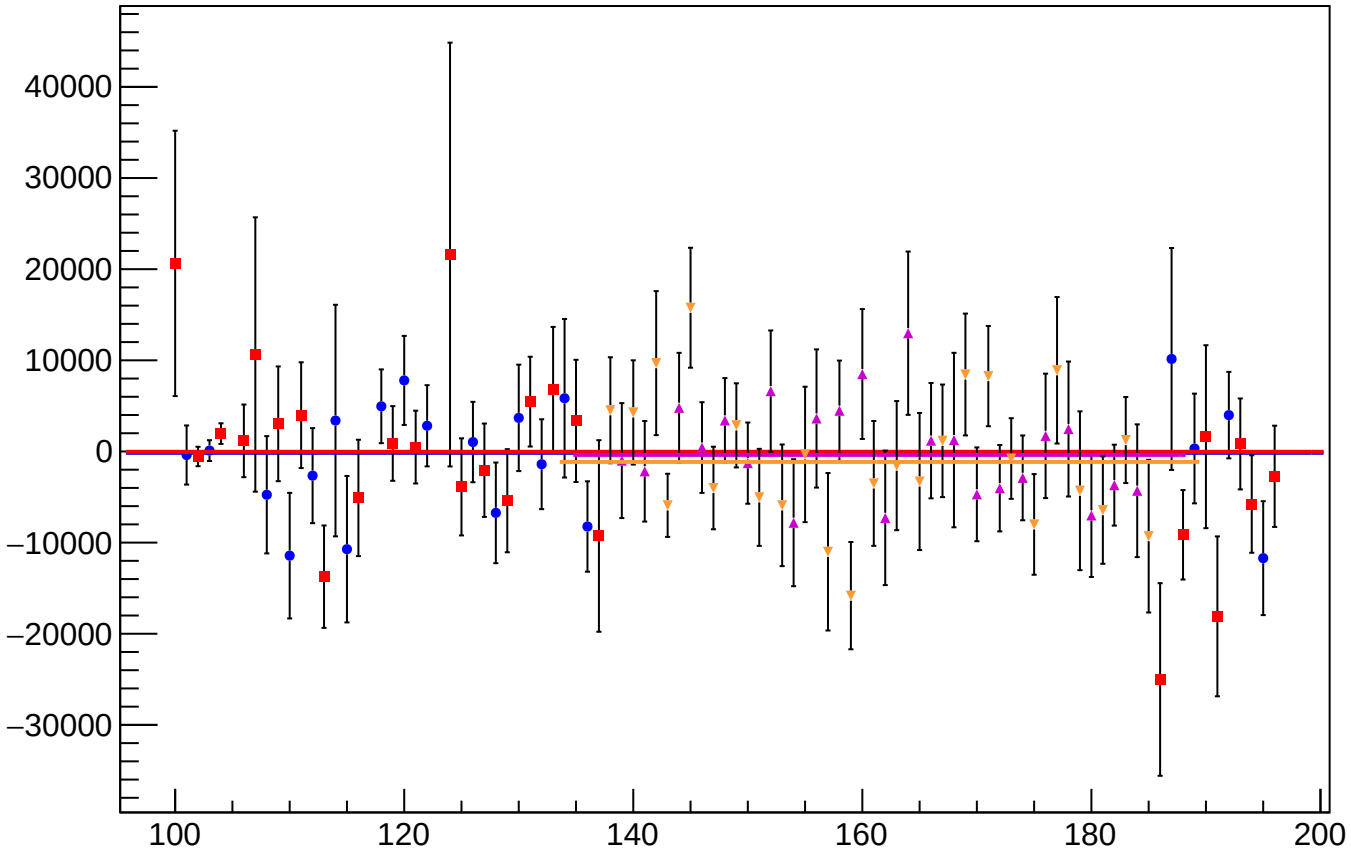
Left: 1795.187+/-0.209 $\chi^2$/NDF: 191047.3/46

Right: 1712.488+/-0.263 $\chi^2$/NDF: 404283.6/44

In: 1755.111+/-0.235 $\chi^2$/NDF:272254.4/42

Out: 1770.679+/-0.229 $\chi^2$/NDF:381390.5/48

All: 1763.099+/-0.164 $\chi^2$/NDF: 655903.5/91




Right In: -147.839+/-835.439 $\chi^2$/NDF: 20.0/19

Left Out: -1144.405+/-1164.458 $\chi^2$/NDF:32.6/24

Right Out: -35.715+/-652.469 $\chi^2$/NDF: 33.7/25

Left In: -374.927+/-1228.699 $\chi^2$/NDF:13.3/22

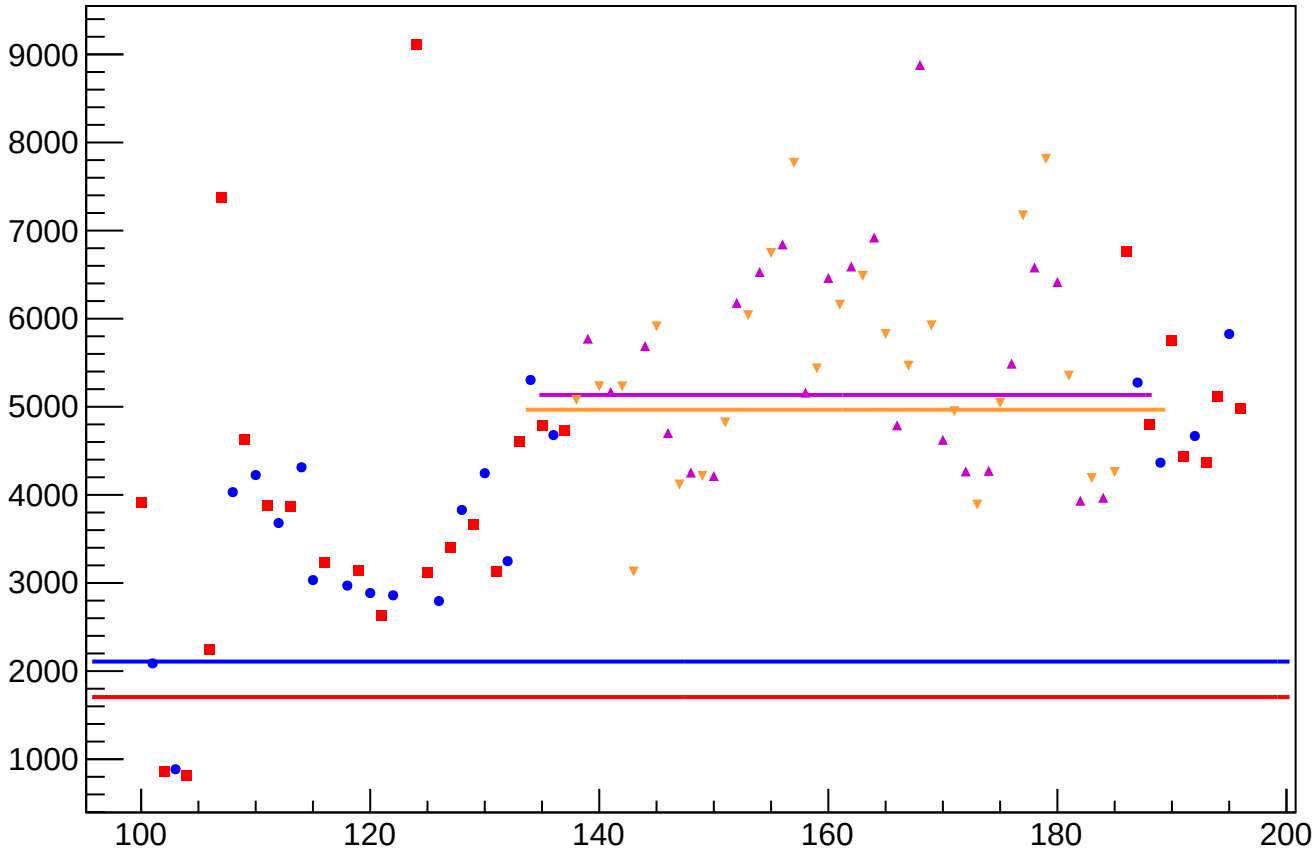
Left: -780.307+/-845.195 $\chi^2$/NDF: 46.0/47

Right: -78.194+/-514.226 $\chi^2$/NDF: 53.7/45

In: -219.634+/-690.867 $\chi^2$/NDF:33.3/42

Out: -300.626+/-569.205 $\chi^2$/NDF:67.0/50

All: -267.877+/-439.307 $\chi^2$/NDF: 100.3/93




Right In: 2108.302+/-0.591 $\chi^2$/NDF: 6261705.8/19

Left Out: 4966.879+/-0.823 $\chi^2$/NDF:1917937.7/24

Right Out: 1705.455+/-0.461 $\chi^2$/NDF: 10126404.0/25

Left In: 5134.445+/-0.869 $\chi^2$/NDF:1487075.9/22

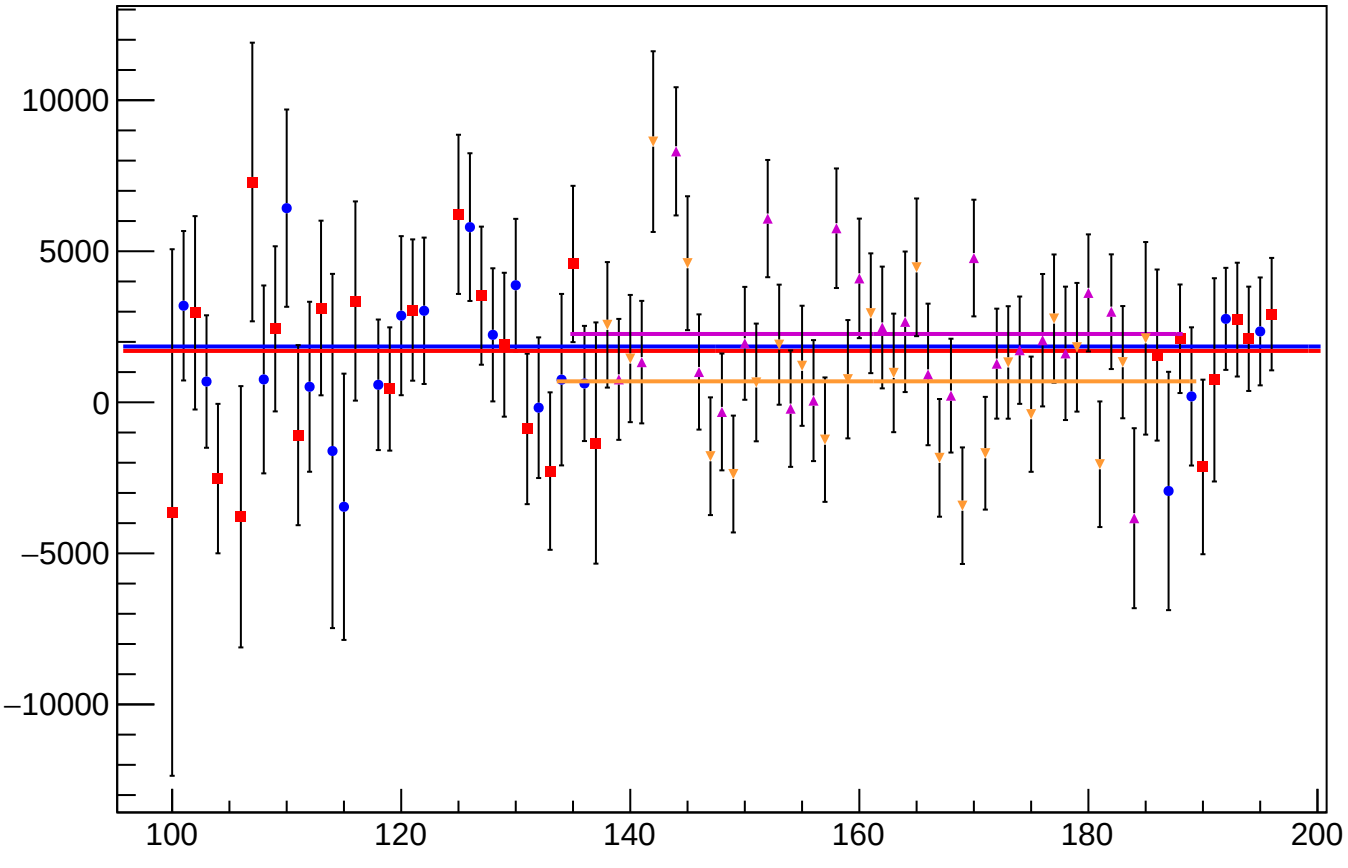
Left: 5046.167+/-0.598 $\chi^2$/NDF: 3424610.1/47

Right: 1858.078+/-0.364 $\chi^2$/NDF: 16676958.6/45

In: 3065.026+/-0.489 $\chi^2$/NDF:16044932.4/42

Out: 2484.742+/-0.402 $\chi^2$/NDF:23984643.3/50

All: 2719.374+/-0.311 $\chi^2$/NDF: 40870043.3/9




Right In: 1847.173+/-543.256 $\chi^2$/NDF: 12.6/19

Left Out: 694.313+/-418.051 $\chi^2$/NDF:32.2/23

Right Out: 1700.451+/-510.500 $\chi^2$/NDF: 20.2/24

Left In: 2261.767+/-419.177 $\chi^2$/NDF:30.4/22

Left: 1475.932+/-296.004 $\chi^2$/NDF: 69.6/46

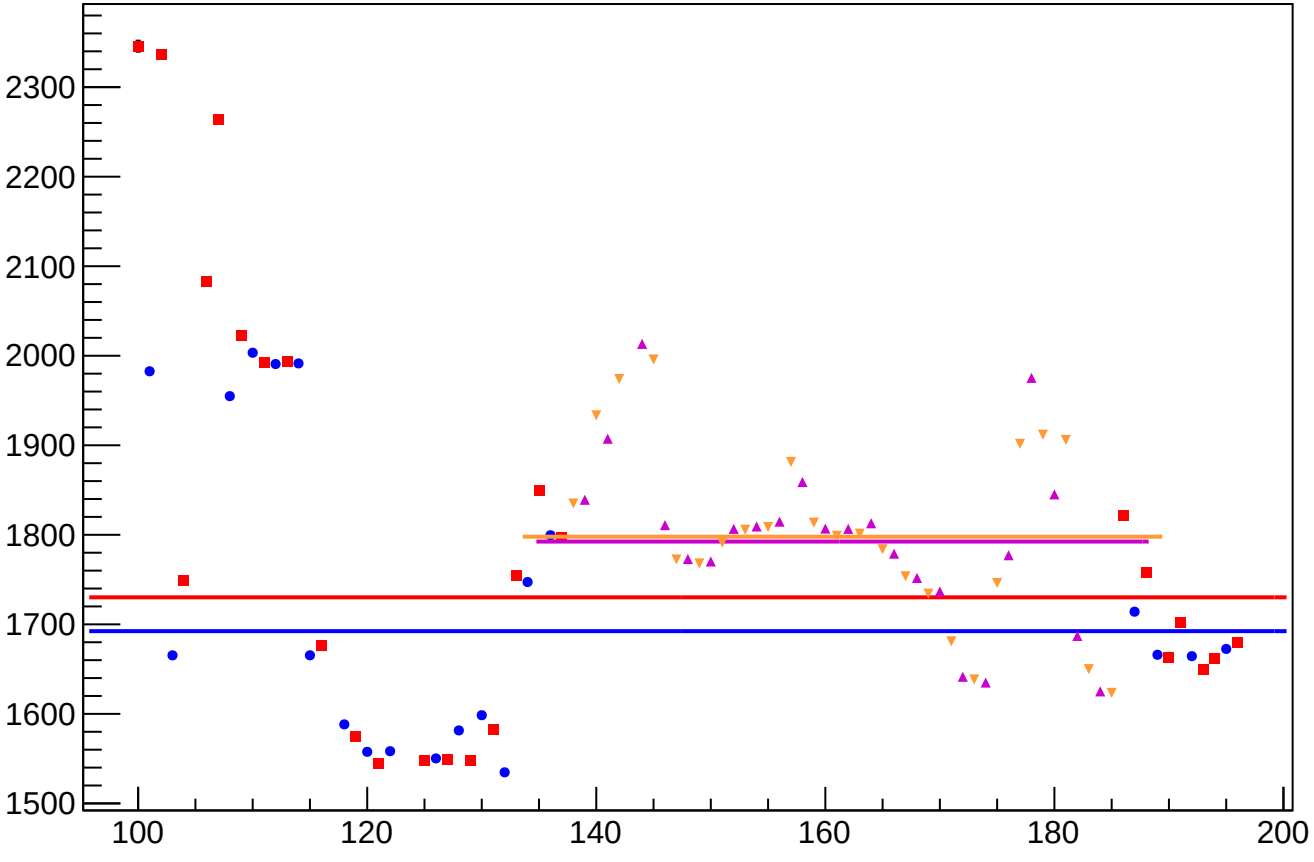
Right: 1769.256+/-372.019 $\chi^2$/NDF: 32.8/44

In: 2107.046+/-331.869 $\chi^2$/NDF:43.4/42

Out: 1098.191+/-323.439 $\chi^2$/NDF:54.7/48

All: 1589.643+/-231.629 $\chi^2$/NDF: 102.8/91

# eigen_dit_asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 1692.393+/-0.384 $\chi^2$/NDF: 136853.5/19

Left Out: 1797.911+/-0.296 $\chi^2$/NDF:98005.5/23

Right Out: 1730.184+/-0.360 $\chi^2$/NDF: 262283.4/24

Left In: 1792.451+/-0.296 $\chi^2$/NDF:92878.6/22

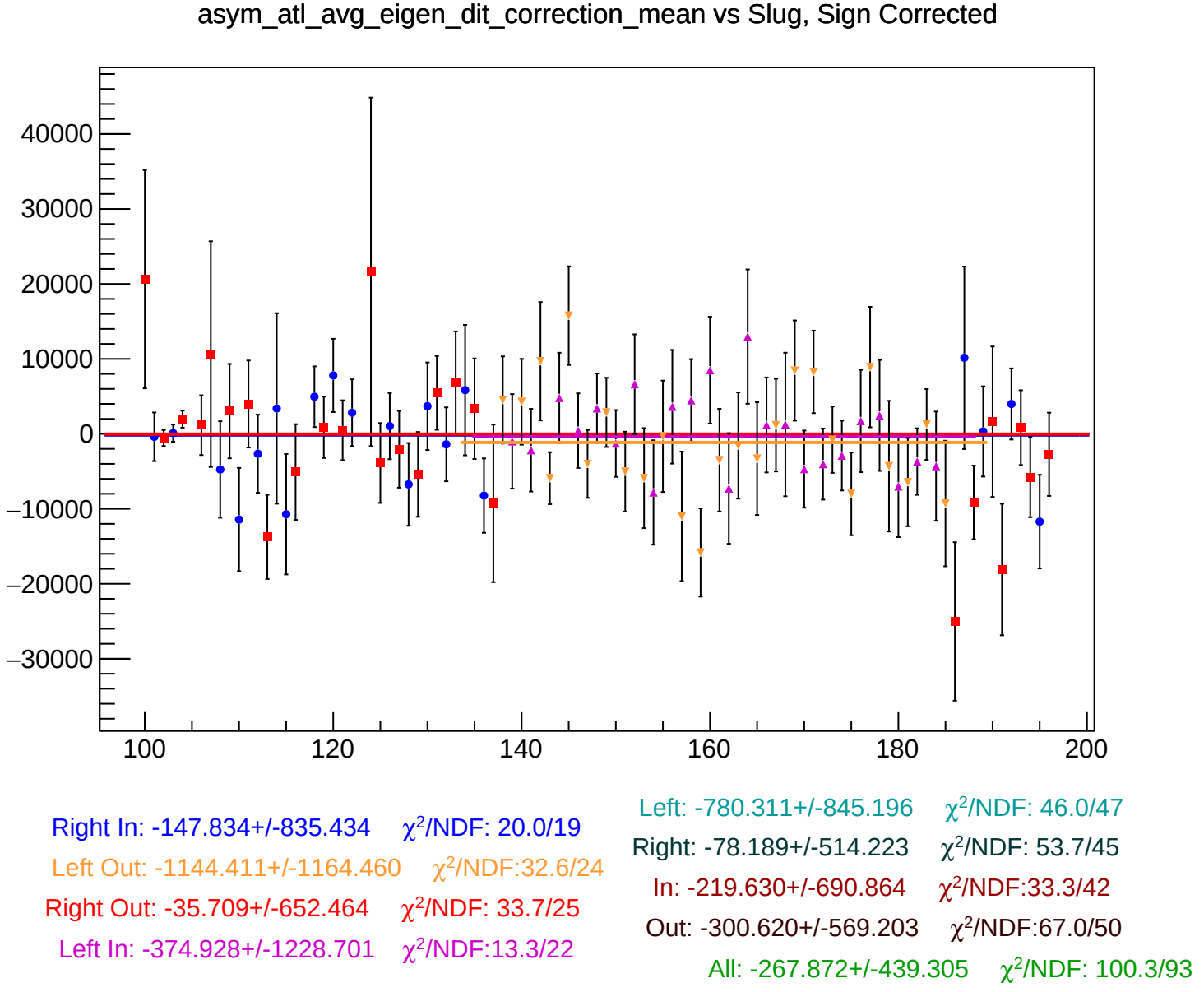
Left: 1795.188+/-0.209 $\chi^2$/NDF: 191054.1/46

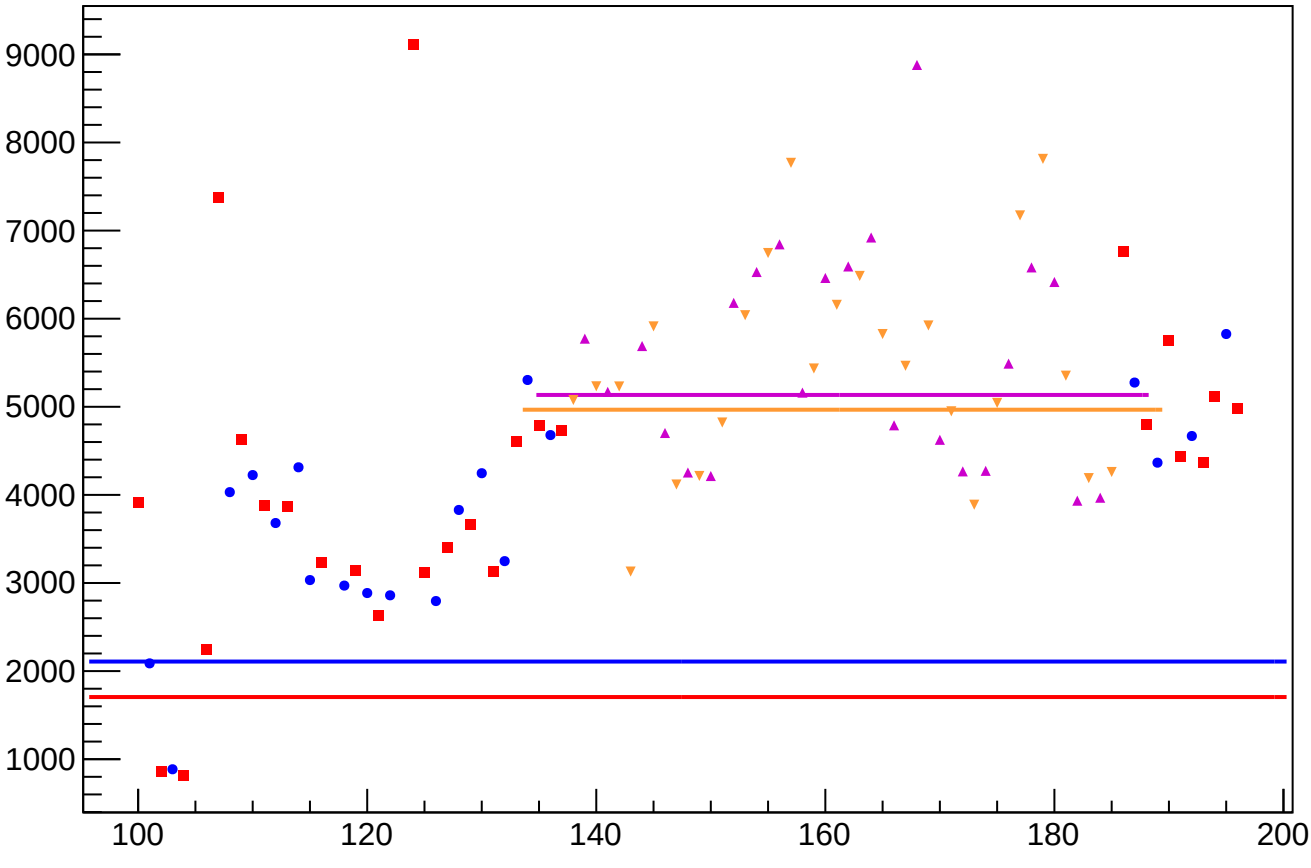
Right: 1712.488+/-0.263 $\chi^2$/NDF: 404283.1/44

In: 1755.111+/-0.235 $\chi^2$/NDF:272259.2/42

Out: 1770.680+/-0.229 $\chi^2$/NDF:381394.2/48

All: 1763.100+/-0.164 $\chi^2$/NDF: 655912.0/91


asym_atl_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: -147.834+/-835.434 χ²/NDF: 20.0/19
Left Out: -1144.411+/-1164.460 χ²/NDF:32.6/24
Right Out: -35.709+/-652.464 χ²/NDF: 33.7/25
Left In: -374.928+/-1228.701 χ²/NDF:13.3/22
Left: -780.311+/-845.196 χ²/NDF: 46.0/47
Right: -78.189+/-514.223 χ²/NDF: 53.7/45
In: -219.630+/-690.864 χ²/NDF:33.3/42
Out: -300.620+/-569.203 χ²/NDF:67.0/50
All: -267.872+/-439.305 χ²/NDF: 100.3/93




Right In: 2108.284+/-0.591 $\chi^2$/NDF: 6261769.2/19

Left Out: 4966.886+/-0.823 $\chi^2$/NDF:1917943.9/24

Right Out: 1705.438+/-0.461 $\chi^2$/NDF: 10126479.6/25

Left In: 5134.453+/-0.869 $\chi^2$/NDF:1487077.8/22

Left: 5046.175+/-0.598 $\chi^2$/NDF: 3424618.3/47

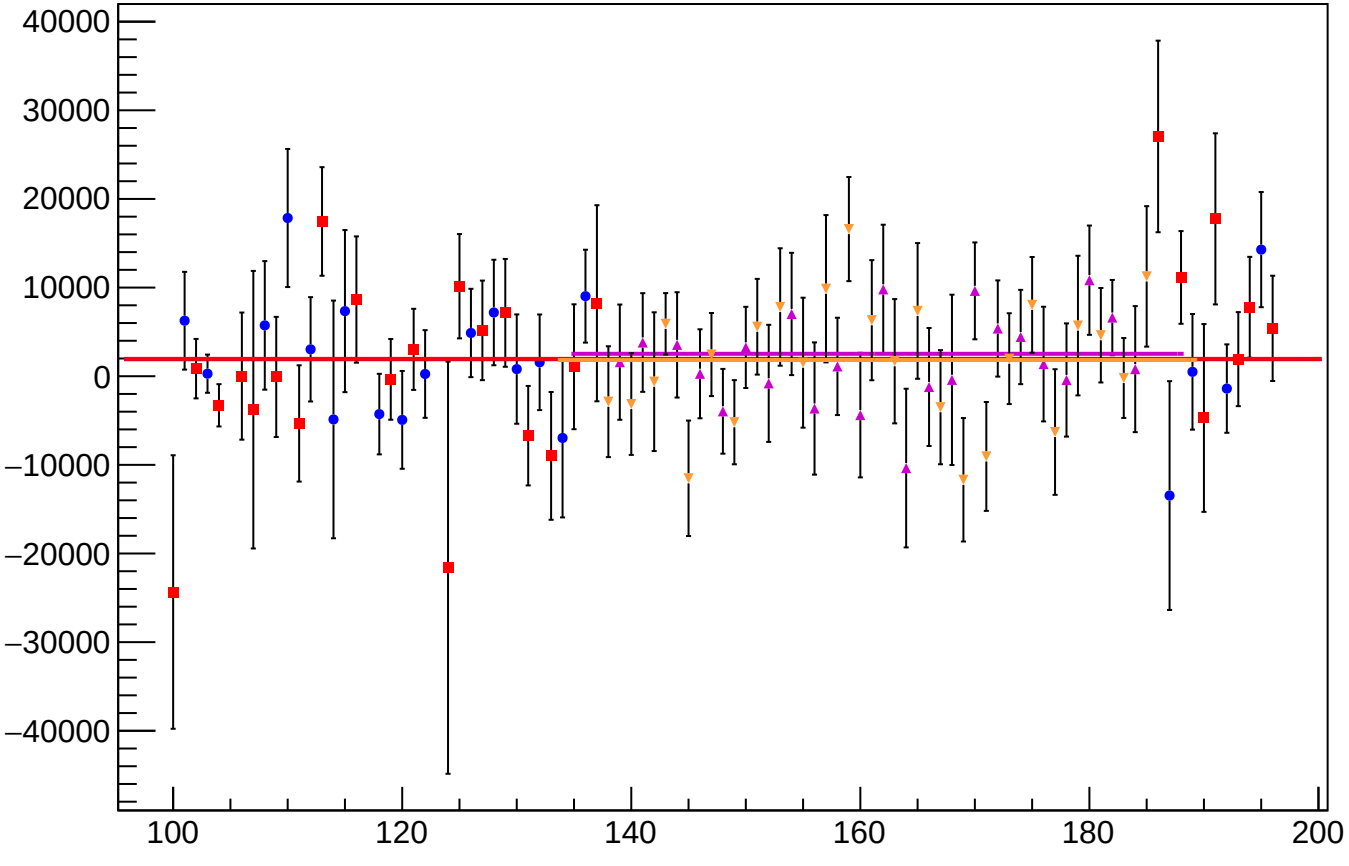
Right: 1858.060+/-0.364 $\chi^2$/NDF: 16677098.8/45

In: 3065.006+/-0.489 $\chi^2$/NDF:16045154.8/42

Out: 2484.721+/-0.402 $\chi^2$/NDF:23984908.3/50

All: 2719.354+/-0.311 $\chi^2$/NDF: 40870540.3/9

# asym_atl_avg_mean vs Slug, Sign Corrected




Right In: 1920.068+/-1175.176 $\chi^2$/NDF: 19.3/19

Left Out: 1826.201+/-1172.478 $\chi^2$/NDF:31.1/24

Right Out: 1957.017+/-1112.259 $\chi^2$/NDF: 39.0/25

Left In: 2529.501+/-1242.040 $\chi^2$/NDF:13.2/22

Left: 2157.606+/-852.599 $\chi^2$/NDF: 44.4/47

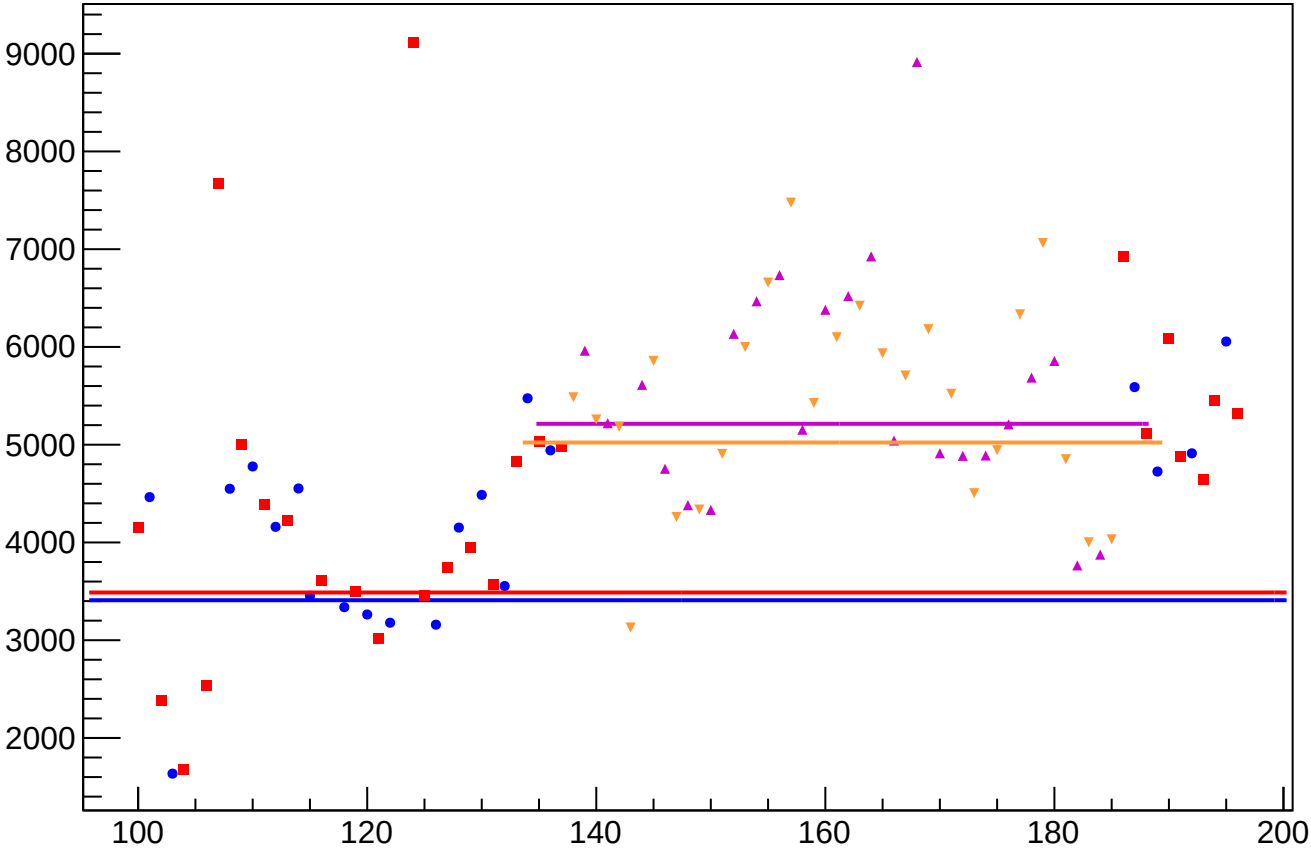
Right: 1939.558+/-807.813 $\chi^2$/NDF: 58.3/45

In: 2207.940+/-853.634 $\chi^2$/NDF:32.6/42

Out: 1895.055+/-806.935 $\chi^2$/NDF:70.1/50

All: 2042.705+/-586.404 $\chi^2$/NDF: 102.8/93

# asym_atl_avg_rms vs Slug, Sign Corrected




Right In: 3409.116+/-0.831 $\chi^2$/NDF: 2623549.7/19

Left Out: 5022.407+/-0.829 $\chi^2$/NDF:1676611.8/24

Right Out: 3488.044+/-0.777 $\chi^2$/NDF: 3196461.2/25

Left In: 5213.625+/-0.878 $\chi^2$/NDF:1223192.9/22

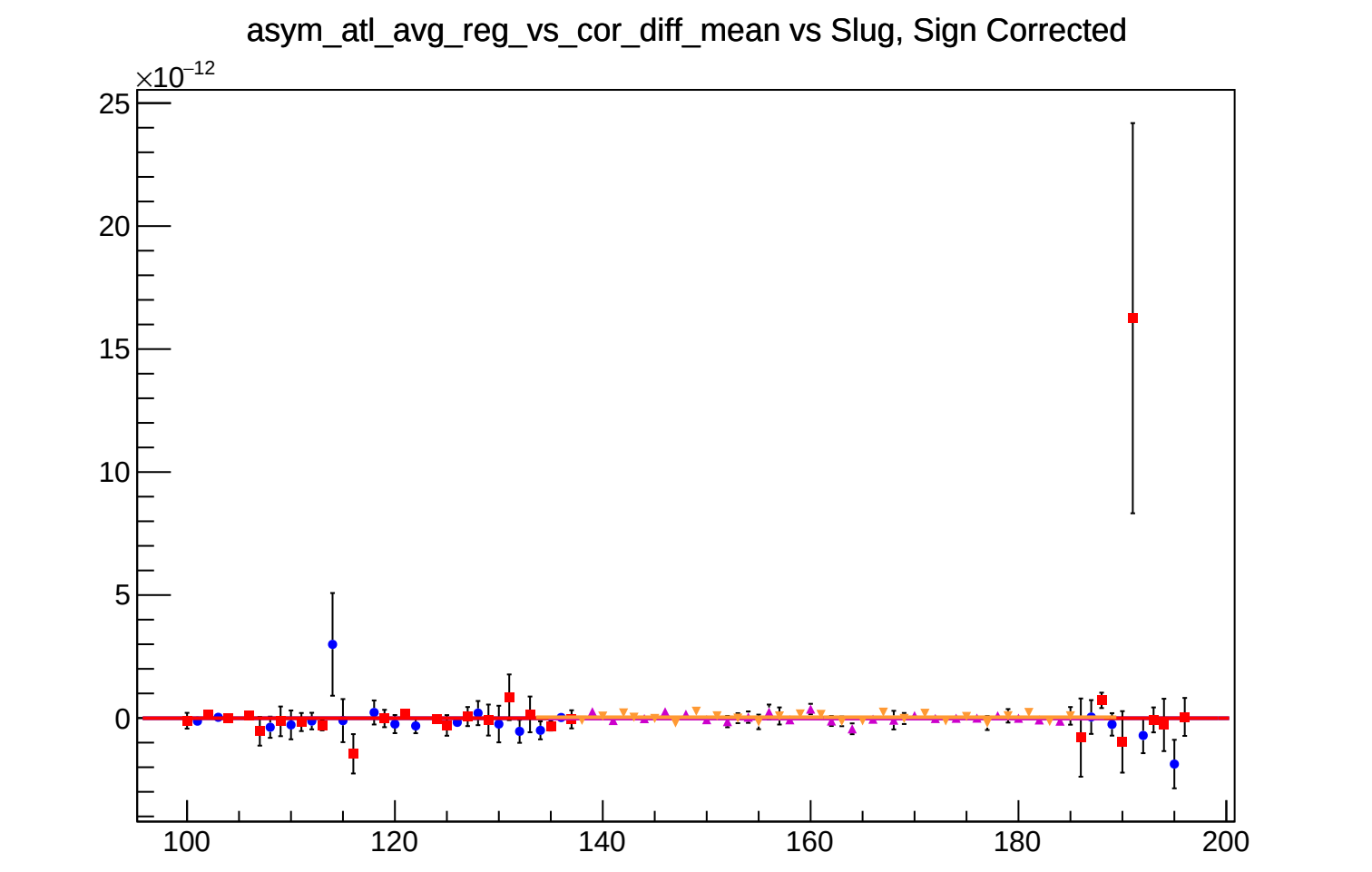
Left: 5112.512+/-0.603 $\chi^2$/NDF: 2924871.4/47

Right: 3451.247+/-0.567 $\chi^2$/NDF: 5824826.6/45

In: 4261.492+/-0.604 $\chi^2$/NDF:6074232.0/42

Out: 4205.147+/-0.567 $\chi^2$/NDF:6697426.3/50

All: 4231.548+/-0.413 $\chi^2$/NDF: 12776289.0/9




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.1/22

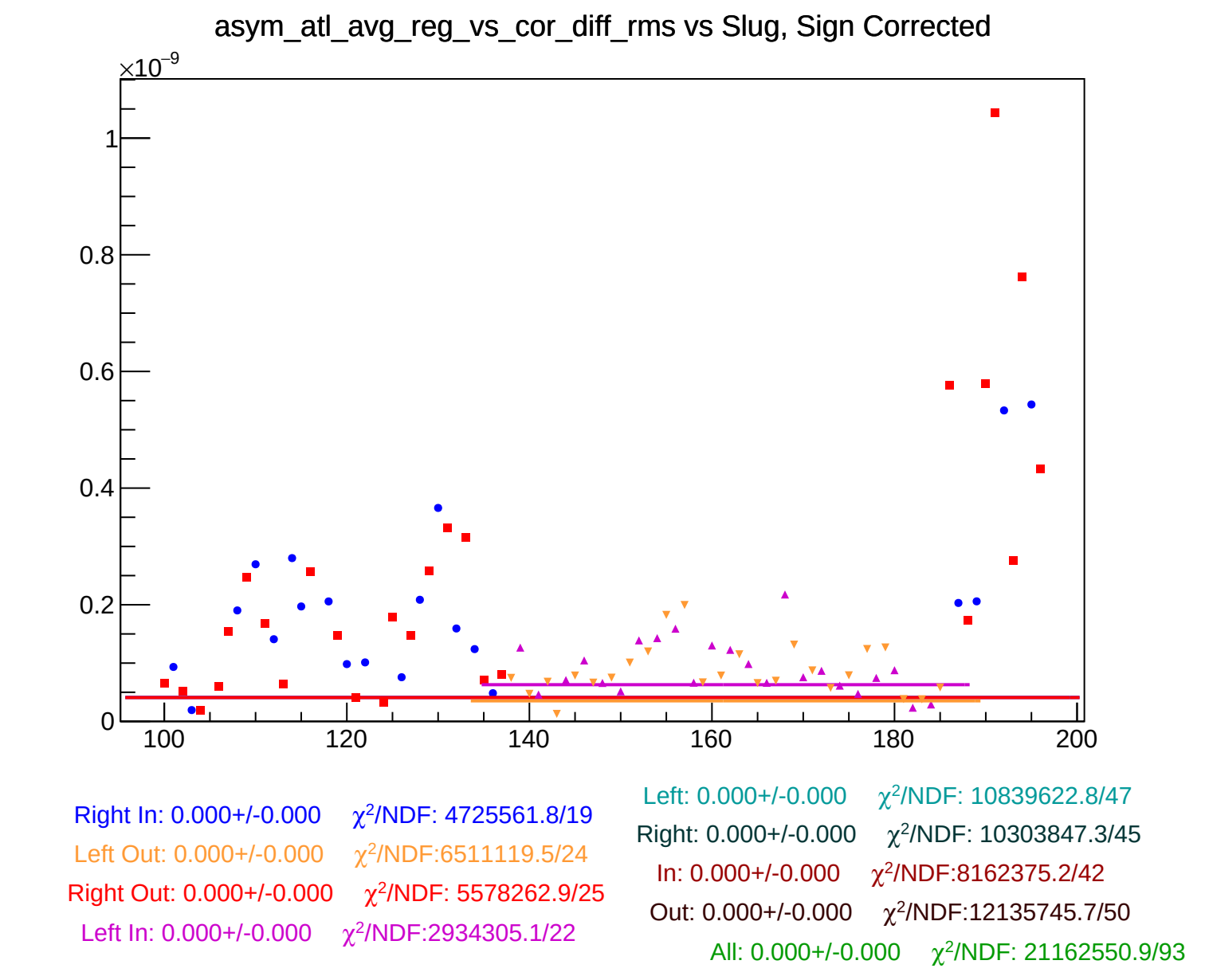
Left: 0.000+/-0.000 $\chi^2$/NDF: 46.3/47

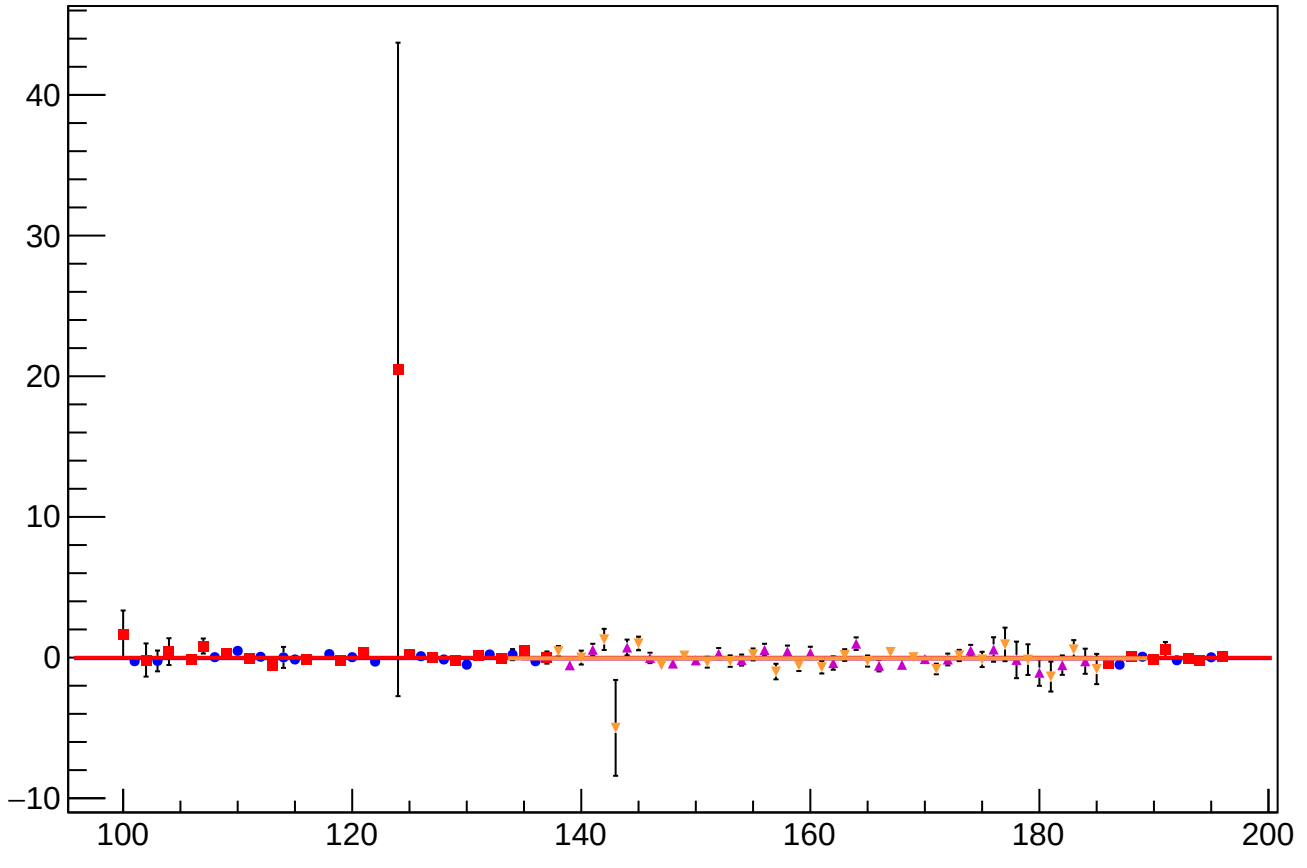
Right: -0.000+/-0.000 $\chi^2$/NDF: 41.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:34.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:51.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 88.1/93


asym_atl_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4725561.8/19
Left Out: 0.000+/-0.000 χ²/NDF:6511119.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 5578262.9/25
Left In: 0.000+/-0.000 χ²/NDF:2934305.1/22
Left: 0.000+/-0.000 χ²/NDF: 10839622.8/47
Right: 0.000+/-0.000 χ²/NDF: 10303847.3/45
In: 0.000+/-0.000 χ²/NDF:8162375.2/42
Out: 0.000+/-0.000 χ²/NDF:12135745.7/50
All: 0.000+/-0.000 χ²/NDF: 21162550.9/93




Right In: -0.043+/-0.051 $\chi^2$/NDF: 20.1/19

Left Out: -0.054+/-0.085 $\chi^2$/NDF:33.1/24

Right Out: -0.015+/-0.042 $\chi^2$/NDF: 28.9/25

Left In: -0.063+/-0.083 $\chi^2$/NDF:28.0/22

Left: -0.059+/-0.059 $\chi^2$/NDF: 61.1/47

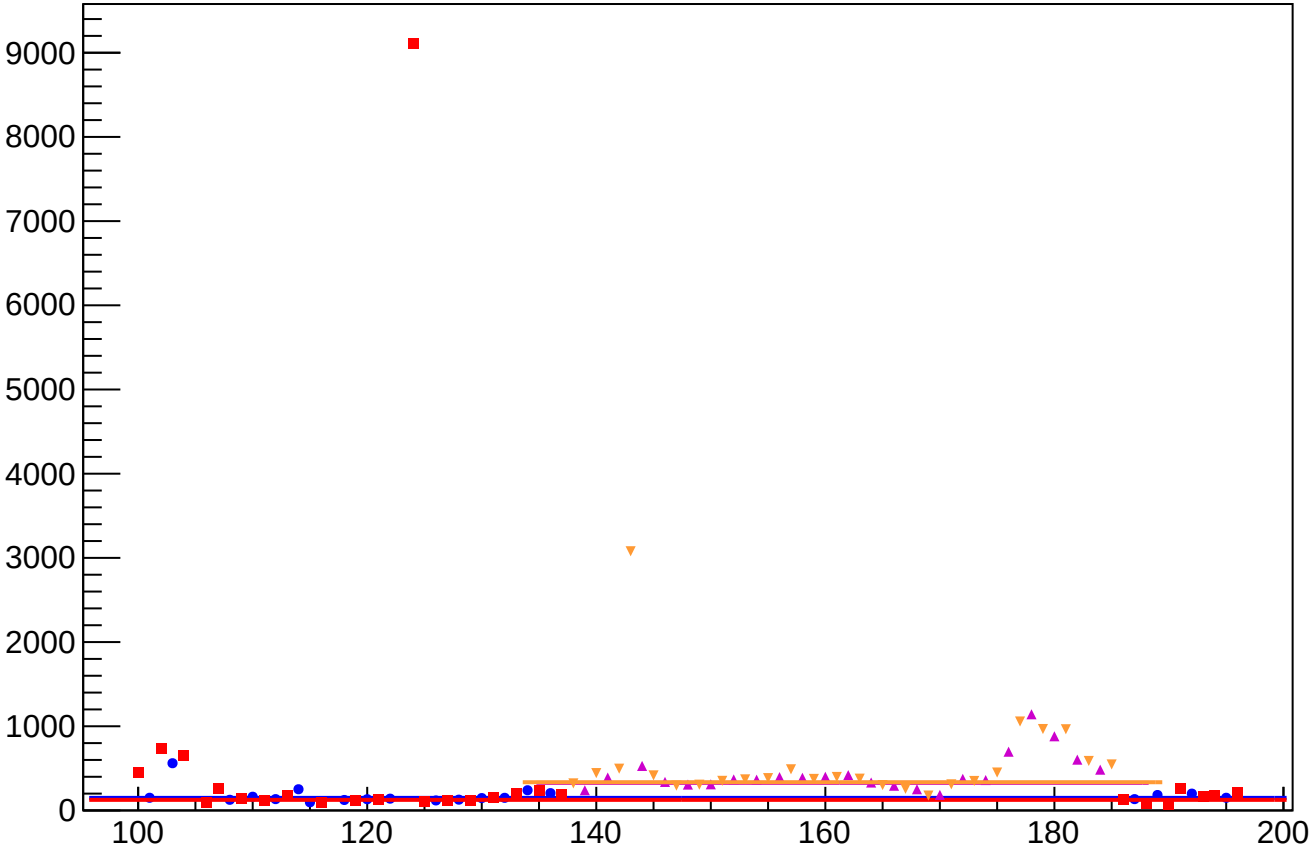
Right: -0.026+/-0.033 $\chi^2$/NDF: 49.2/45

In: -0.049+/-0.044 $\chi^2$/NDF:48.2/42

Out: -0.023+/-0.038 $\chi^2$/NDF:62.1/50

All: -0.034+/-0.029 $\chi^2$/NDF: 110.5/93

# asym_atl_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 149.384+/-0.036 $\chi^2$/NDF: 1297979.0/19

Left Out: 335.166+/-0.060 $\chi^2$/NDF:5852083.8/24

Right Out: 125.916+/-0.030 $\chi^2$/NDF: 3494745.1/25

Left In: 327.572+/-0.059 $\chi^2$/NDF:4153081.9/22

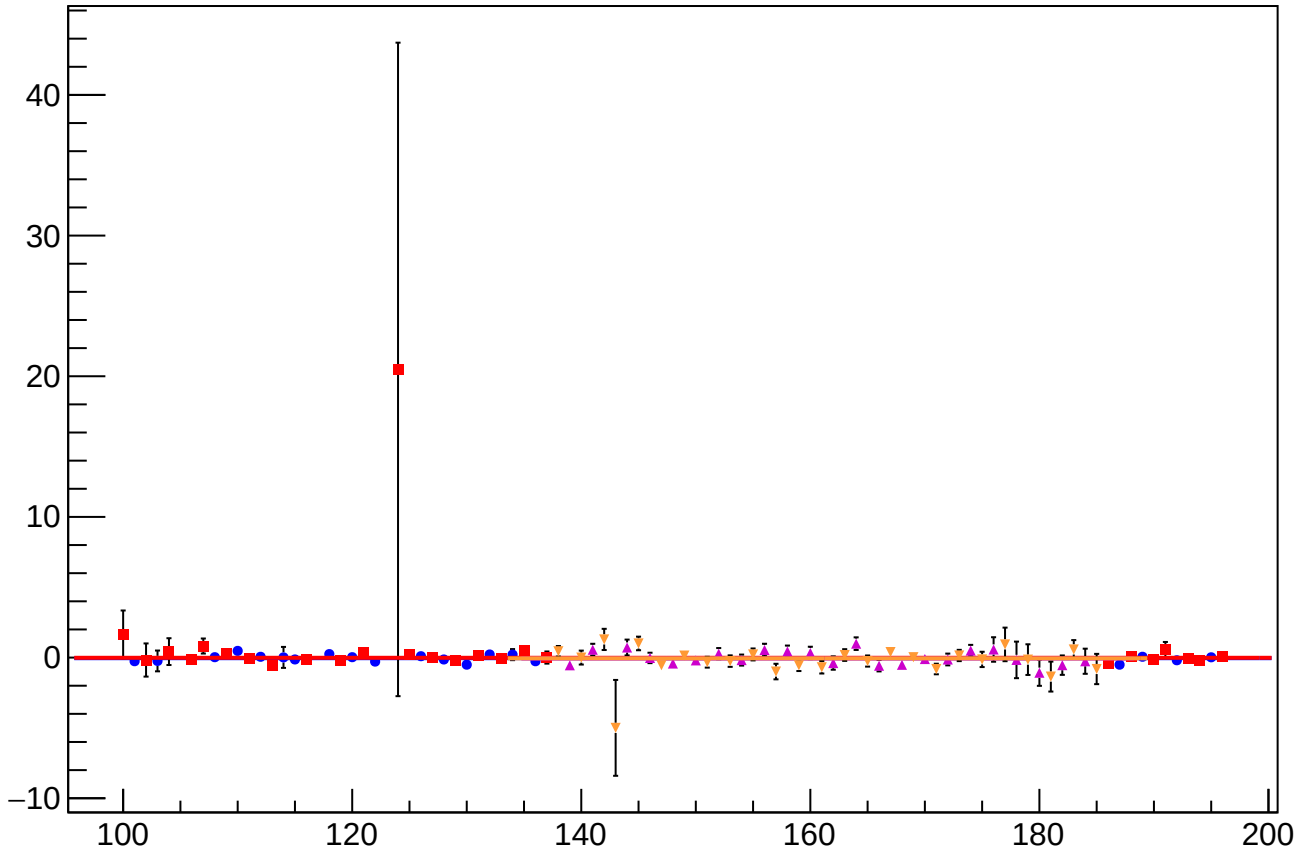
Left: 331.284+/-0.042 $\chi^2$/NDF: 10013400.4/47

Right: 135.361+/-0.023 $\chi^2$/NDF: 5042237.8/45

In: 198.947+/-0.031 $\chi^2$/NDF:12147017.4/42

Out: 167.524+/-0.027 $\chi^2$/NDF:19147086.9/50

All: 180.966+/-0.020 $\chi^2$/NDF: 31887579.9/93




Right In: -0.043+/-0.051 $\chi^2$/NDF: 20.1/19

Left Out: -0.054+/-0.085 $\chi^2$/NDF:33.1/24

Right Out: -0.015+/-0.042 $\chi^2$/NDF: 28.9/25

Left In: -0.063+/-0.083 $\chi^2$/NDF:28.0/22

Left: -0.059+/-0.059 $\chi^2$/NDF: 61.1/47

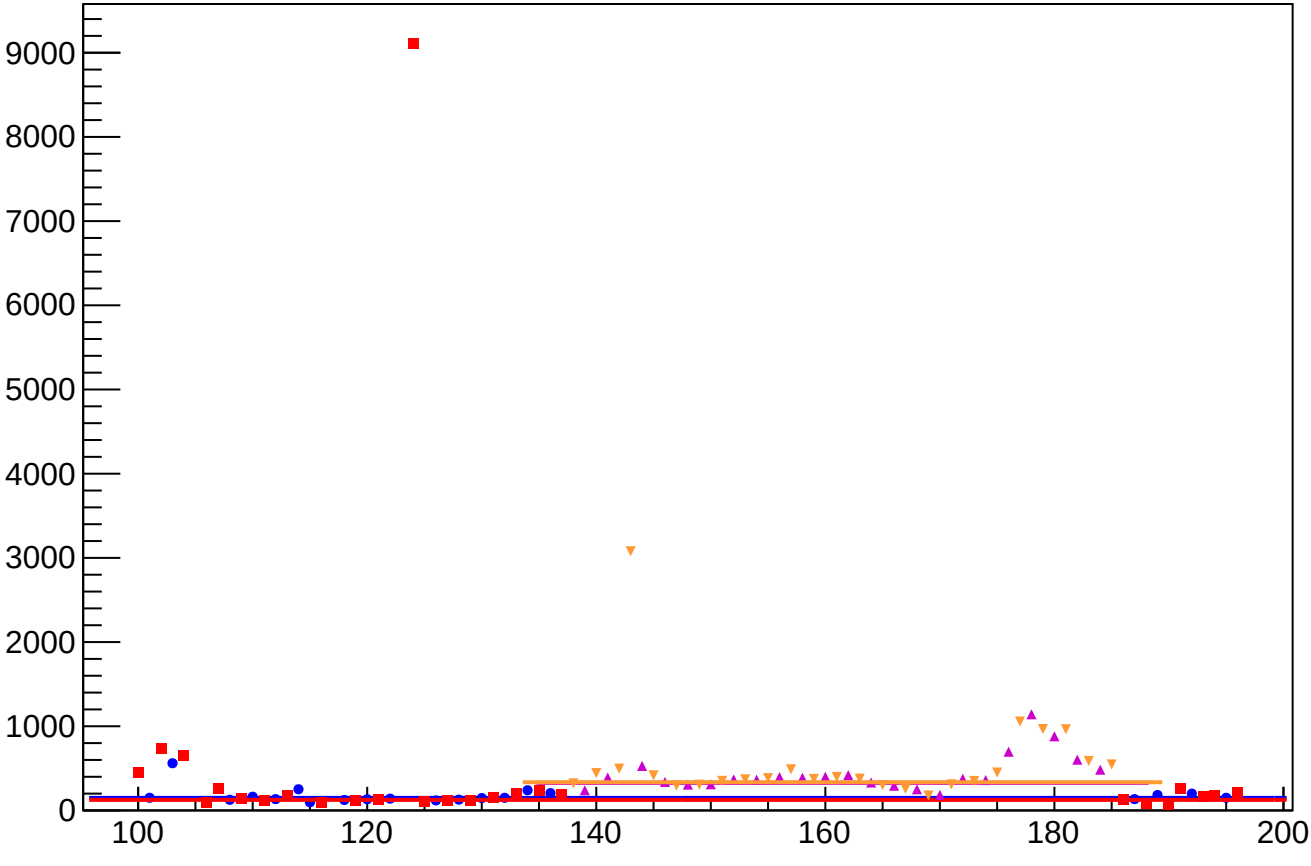
Right: -0.026+/-0.033 $\chi^2$/NDF: 49.2/45

In: -0.049+/-0.044 $\chi^2$/NDF:48.2/42

Out: -0.023+/-0.038 $\chi^2$/NDF:62.1/50

All: -0.034+/-0.029 $\chi^2$/NDF: 110.5/93

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 149.384+/-0.036 $\chi^2$/NDF: 1297979.0/19

Left Out: 335.166+/-0.060 $\chi^2$/NDF:5852083.8/24

Right Out: 125.916+/-0.030 $\chi^2$/NDF: 3494745.1/25

Left In: 327.572+/-0.059 $\chi^2$/NDF:4153081.9/22

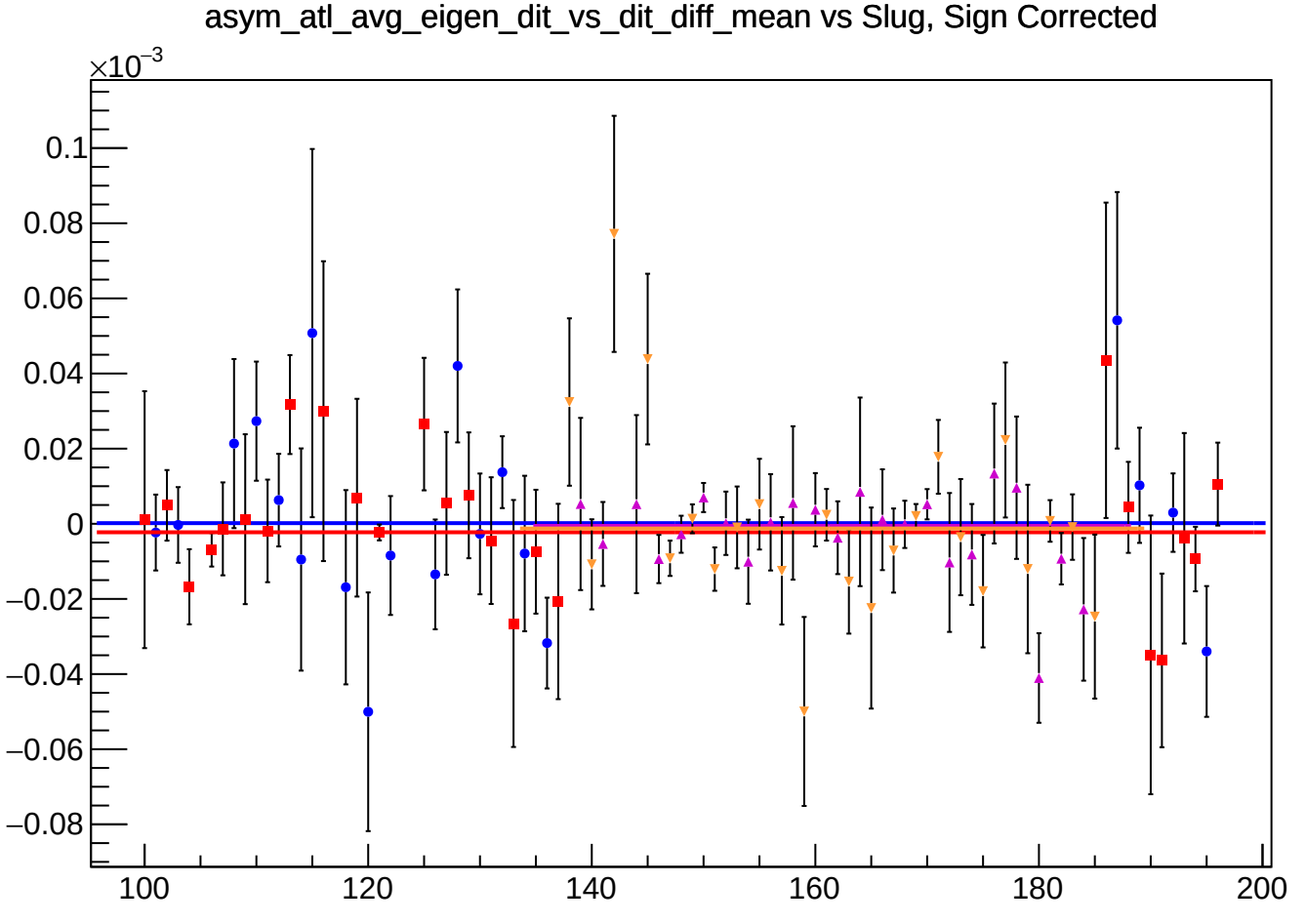
Left: 331.284+/-0.042 $\chi^2$/NDF: 10013400.4/47

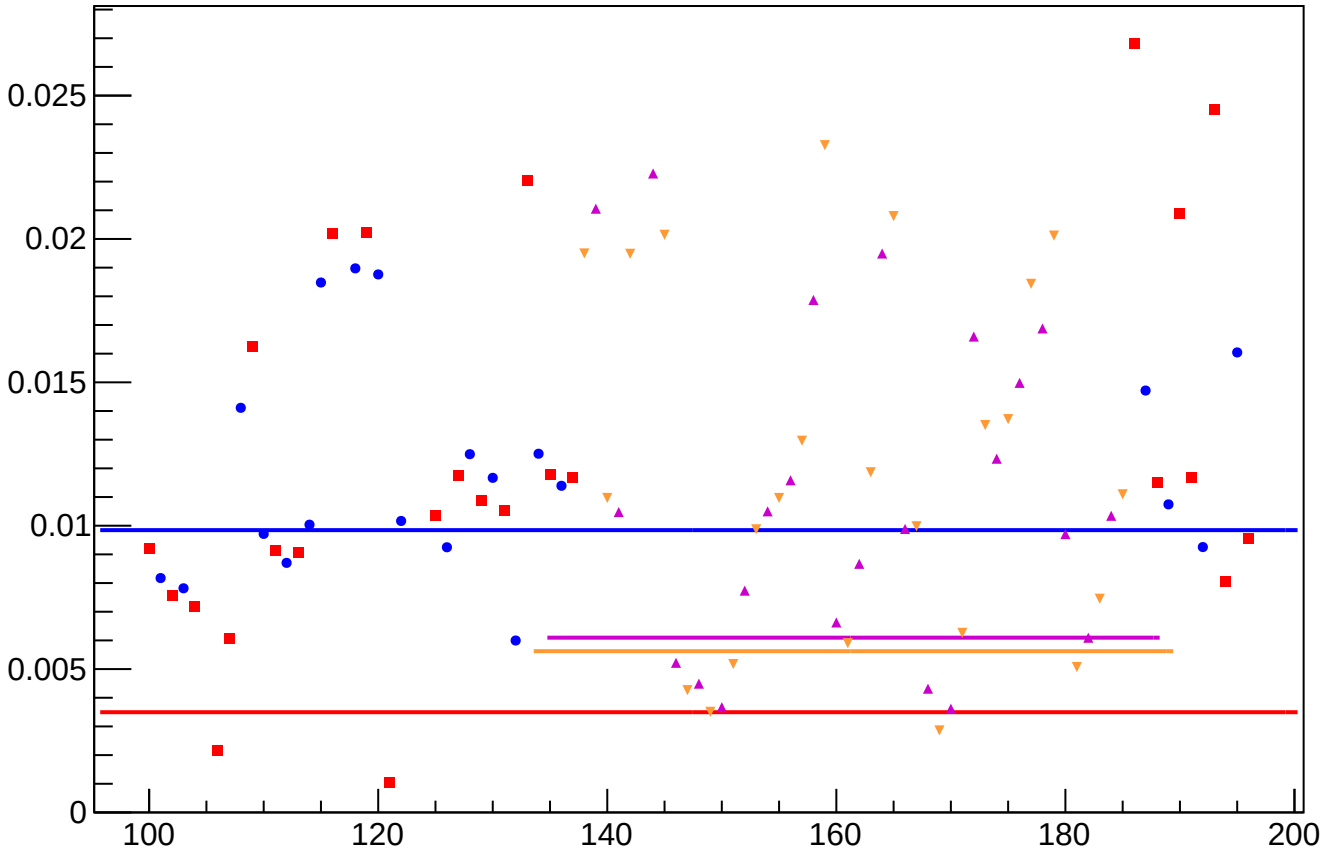
Right: 135.361+/-0.023 $\chi^2$/NDF: 5042237.8/45

In: 198.947+/-0.031 $\chi^2$/NDF:12147017.4/42

Out: 167.524+/-0.027 $\chi^2$/NDF:19147086.9/50

All: 180.966+/-0.020 $\chi^2$/NDF: 31887579.9/93


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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 29.7/19
Left Out: -0.000+/-0.000 χ²/NDF:35.7/23
Right Out: -0.000+/-0.000 χ²/NDF: 22.1/24
Left In: -0.000+/-0.000 χ²/NDF:25.5/22
Left: -0.000+/-0.000 χ²/NDF: 61.3/46
Right: -0.000+/-0.000 χ²/NDF: 52.2/44
In: -0.000+/-0.000 χ²/NDF:55.2/42
Out: -0.000+/-0.000 χ²/NDF:58.0/48
All: -0.000+/-0.000 χ²/NDF: 113.6/91




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1455360.2/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:11183743.0/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 13368143.8/24

Left In: 0.006+/-0.000 $\chi^2$/NDF:8798992.3/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 20062256.6/46

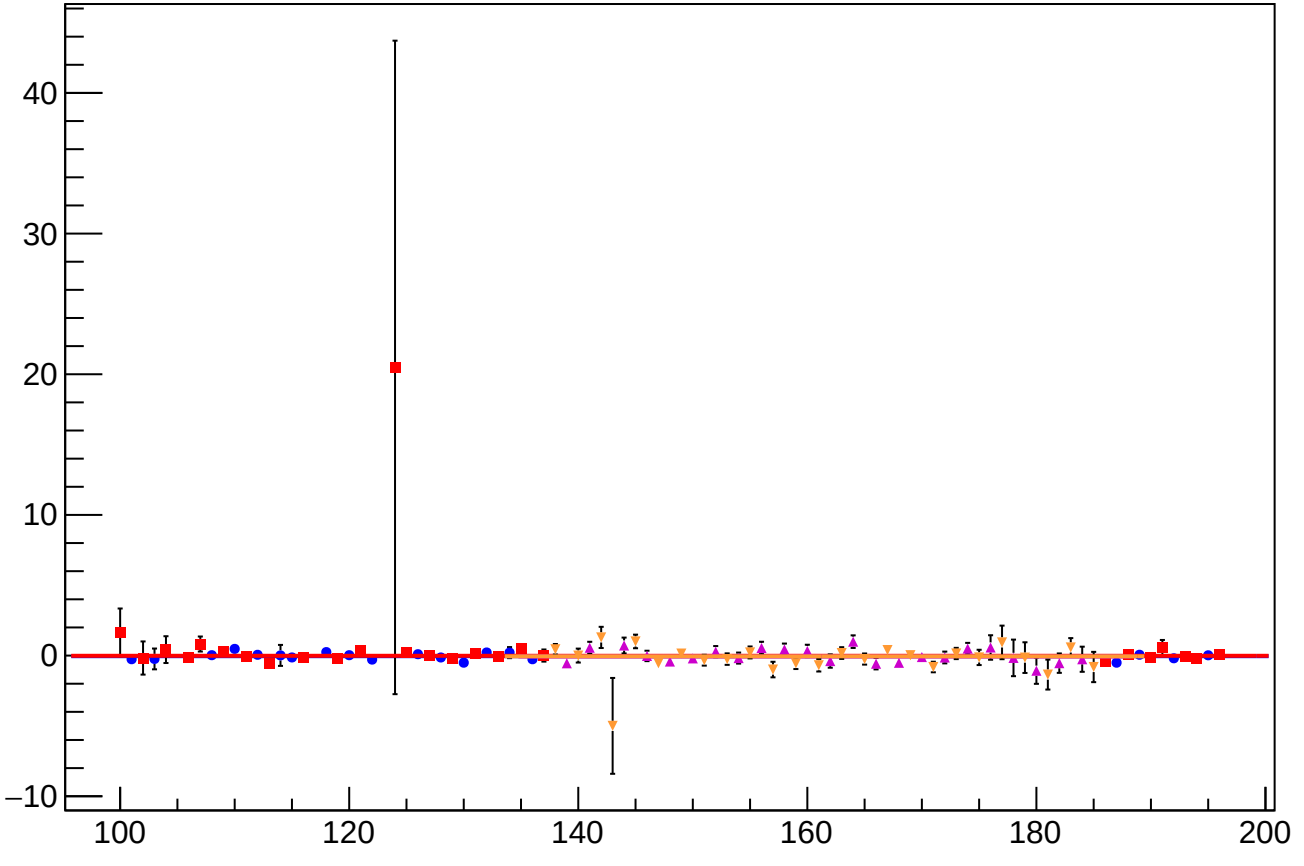
Right: 0.005+/-0.000 $\chi^2$/NDF: 20606968.7/44

In: 0.007+/-0.000 $\chi^2$/NDF:12229745.4/42

Out: 0.005+/-0.000 $\chi^2$/NDF:26256675.2/48

All: 0.005+/-0.000 $\chi^2$/NDF: 41373118.0/91

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.043+/-0.051 $\chi^2$/NDF: 20.1/19

Left Out: -0.054+/-0.085 $\chi^2$/NDF:33.1/24

Right Out: -0.015+/-0.042 $\chi^2$/NDF: 28.9/25

Left In: -0.063+/-0.083 $\chi^2$/NDF:28.0/22

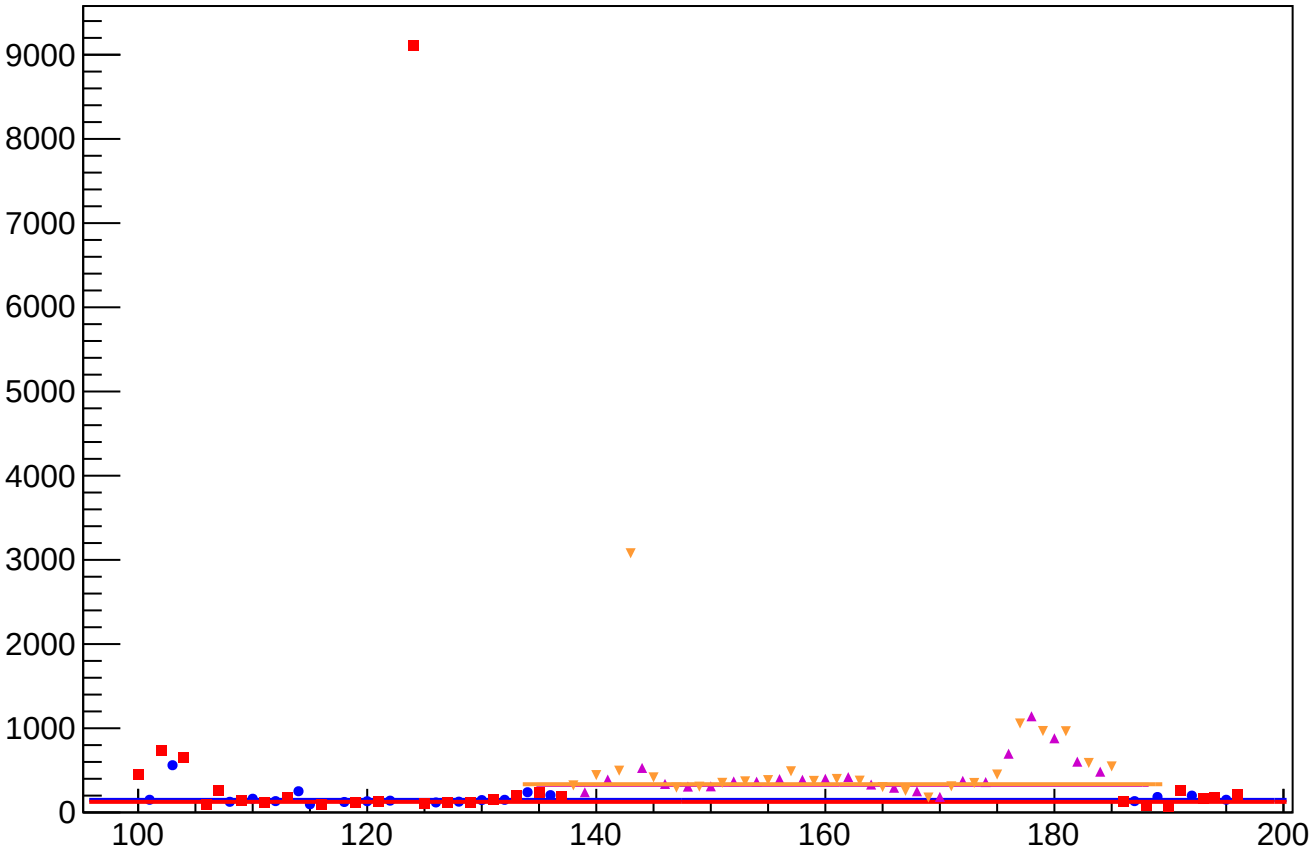
Left: -0.059+/-0.059 $\chi^2$/NDF: 61.1/47

Right: -0.026+/-0.033 $\chi^2$/NDF: 49.2/45

In: -0.049+/-0.044 $\chi^2$/NDF:48.2/42

Out: -0.023+/-0.038 $\chi^2$/NDF:62.1/50

All: -0.034+/-0.029 $\chi^2$/NDF: 110.5/93




Right In: 149.383+/-0.036 $\chi^2$/NDF: 1298000.9/19

Left Out: 335.168+/-0.060 $\chi^2$/NDF:5852151.8/24

Right Out: 125.913+/-0.030 $\chi^2$/NDF: 3494743.7/25

Left In: 327.575+/-0.059 $\chi^2$/NDF:4153087.6/22

Left: 331.286+/-0.042 $\chi^2$/NDF: 10013472.2/47

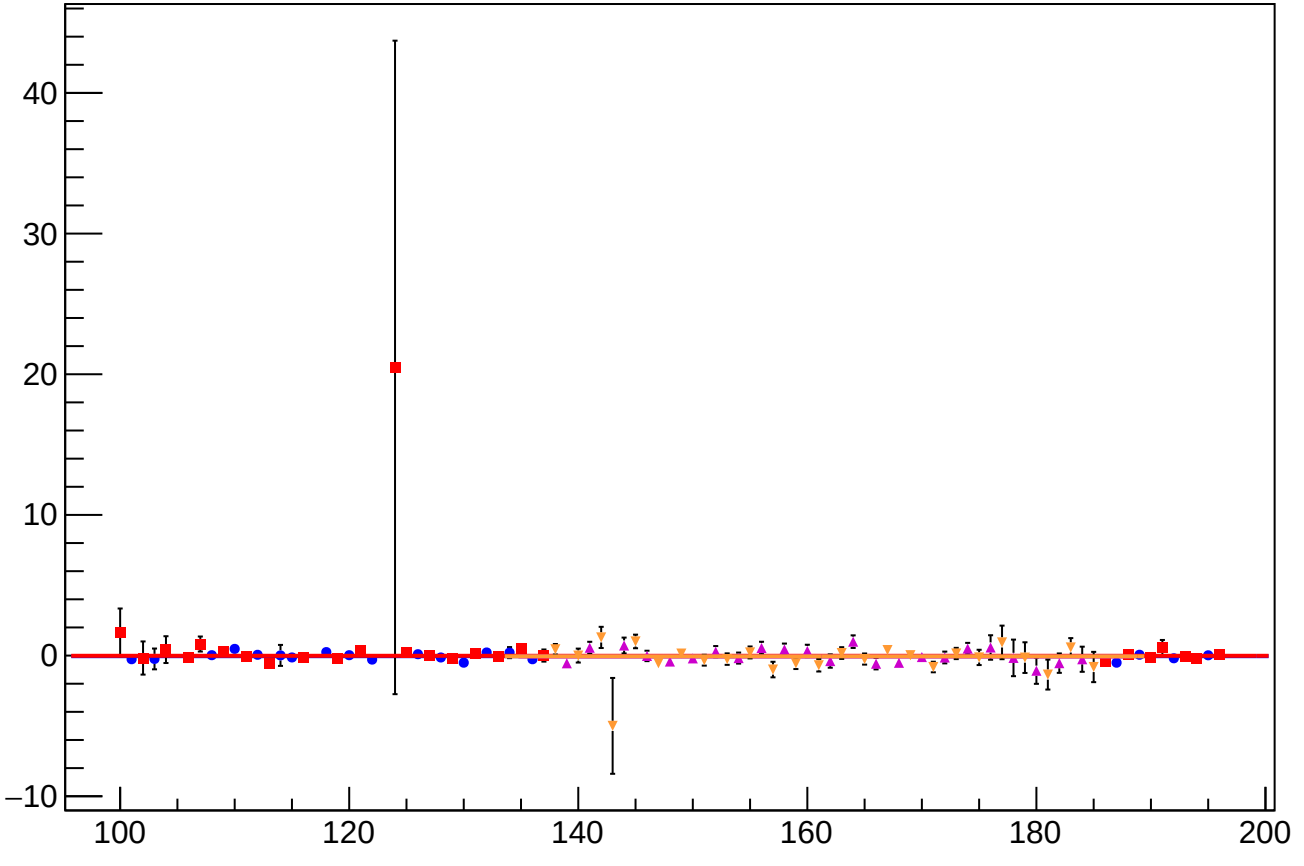
Right: 135.359+/-0.023 $\chi^2$/NDF: 5042282.7/45

In: 198.946+/-0.031 $\chi^2$/NDF:12147296.8/42

Out: 167.521+/-0.027 $\chi^2$/NDF:19147494.3/50

All: 180.964+/-0.020 $\chi^2$/NDF: 31888325.7/93

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.043+/-0.051 $\chi^2$/NDF: 20.1/19

Left Out: -0.054+/-0.085 $\chi^2$/NDF:33.1/24

Right Out: -0.015+/-0.042 $\chi^2$/NDF: 28.9/25

Left In: -0.063+/-0.083 $\chi^2$/NDF:28.0/22

Left: -0.059+/-0.059 $\chi^2$/NDF: 61.1/47

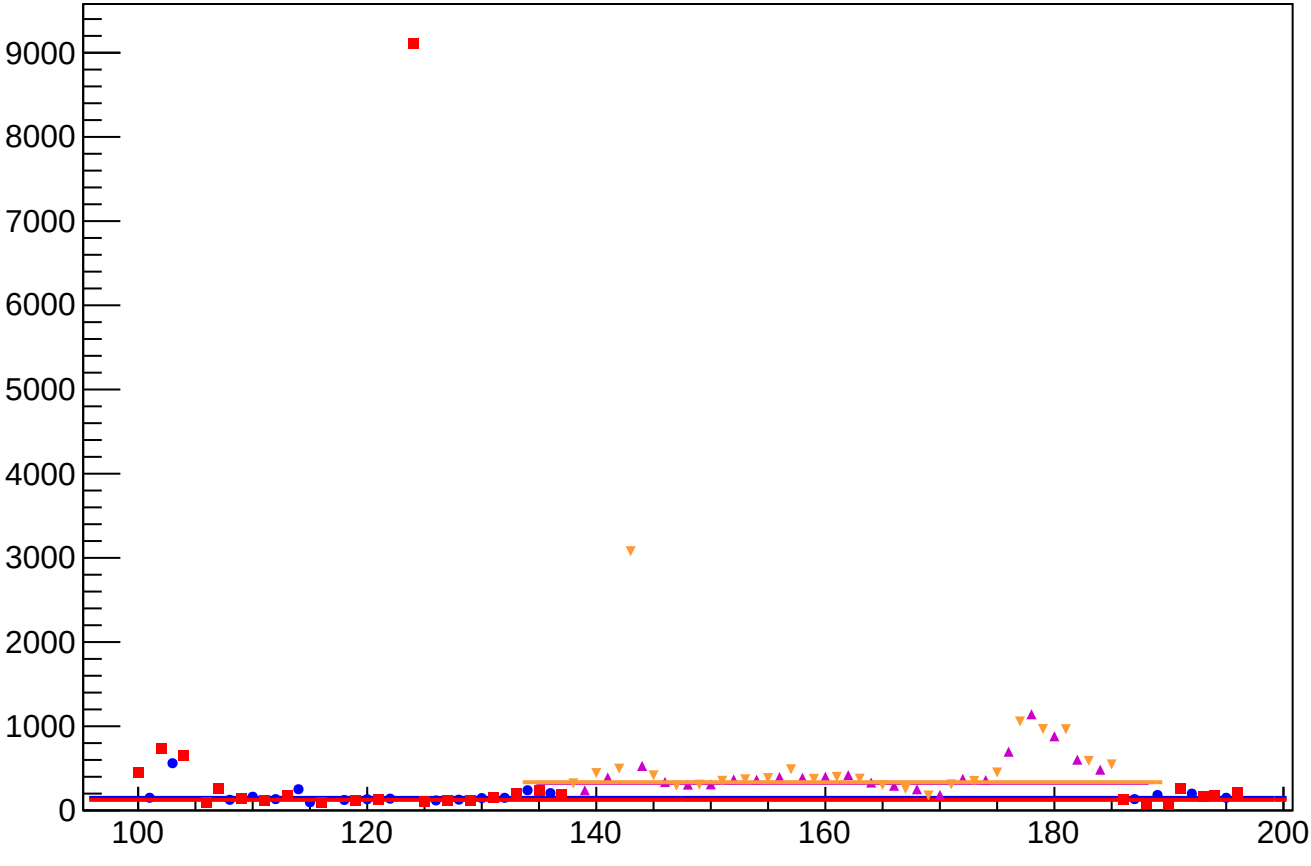
Right: -0.026+/-0.033 $\chi^2$/NDF: 49.2/45

In: -0.049+/-0.044 $\chi^2$/NDF:48.2/42

Out: -0.023+/-0.038 $\chi^2$/NDF:62.1/50

All: -0.034+/-0.029 $\chi^2$/NDF: 110.5/93

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 149.383+/-0.036 $\chi^2$/NDF: 1298000.9/19

Left Out: 335.168+/-0.060 $\chi^2$/NDF:5852151.8/24

Right Out: 125.913+/-0.030 $\chi^2$/NDF: 3494743.7/25

Left In: 327.575+/-0.059 $\chi^2$/NDF:4153087.6/22

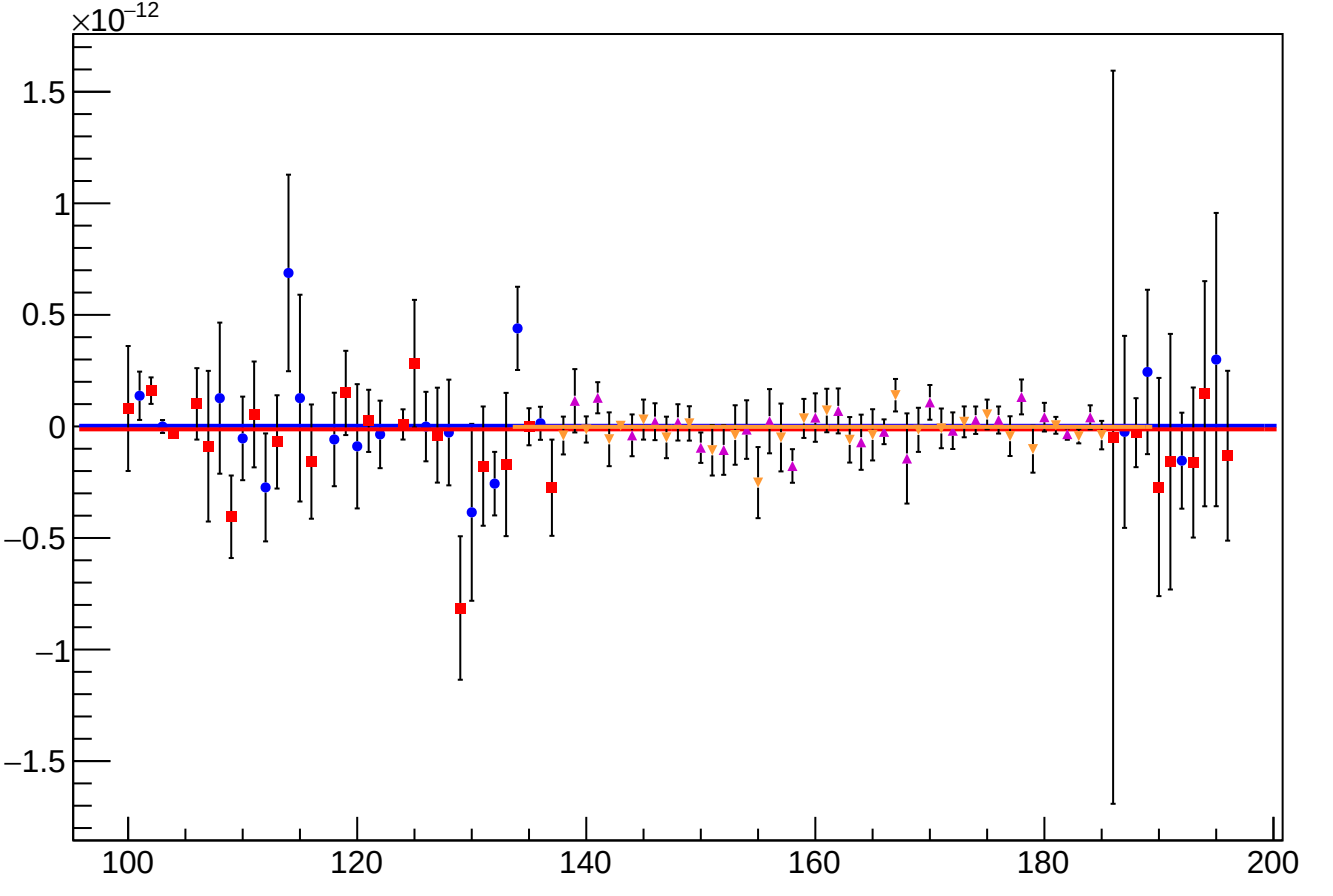
Left: 331.286+/-0.042 $\chi^2$/NDF: 10013472.2/47

Right: 135.359+/-0.023 $\chi^2$/NDF: 5042282.7/45

In: 198.946+/-0.031 $\chi^2$/NDF:12147296.8/42

Out: 167.521+/-0.027 $\chi^2$/NDF:19147494.3/50

All: 180.964+/-0.020 $\chi^2$/NDF: 31888325.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.5/22

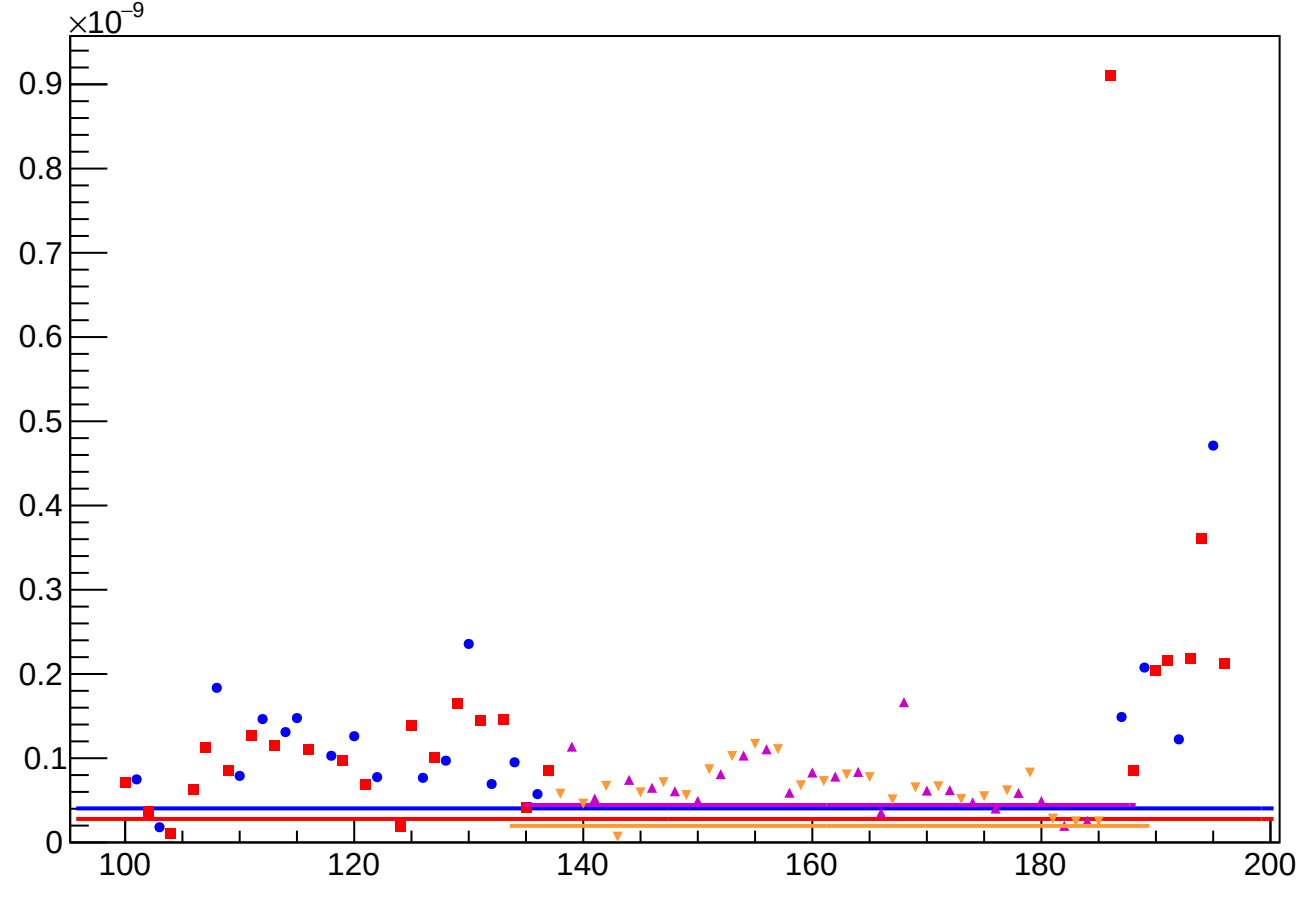
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.1/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:39.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:39.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 79.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5654913.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14888228.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 8057808.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:5919814.1/22

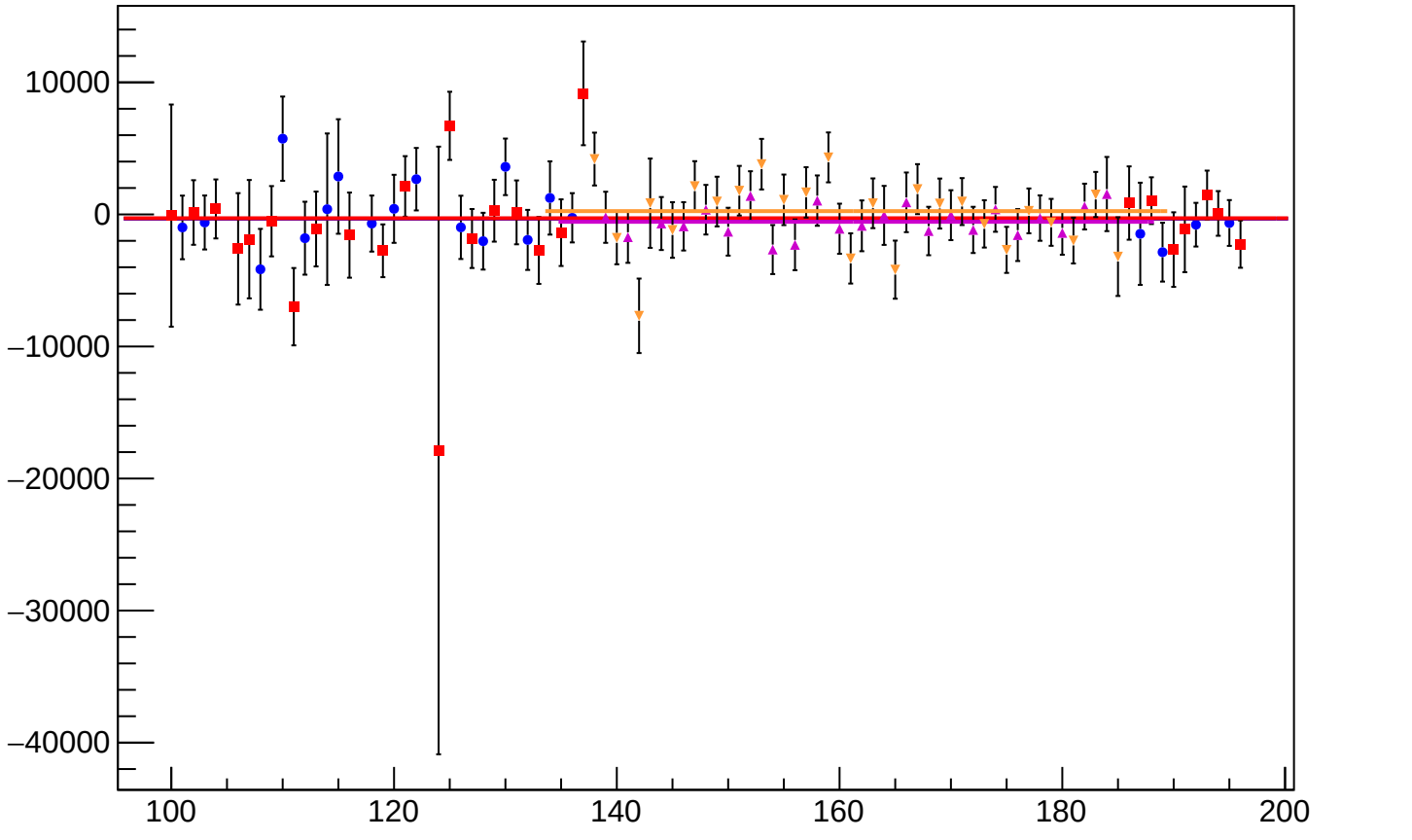
Left: 0.000+/-0.000 $\chi^2$/NDF: 25361712.4/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 14063212.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:11617684.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:23277740.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 39751198.5/93




Right In: -325.792+/-529.402 $\chi^2$/NDF: 14.2/19

Left Out: 248.233+/-388.827 $\chi^2$/NDF:39.6/24

Right Out: -292.432+/-493.069 $\chi^2$/NDF: 27.7/25

Left In: -559.995+/-395.112 $\chi^2$/NDF:7.5/22

Left: -149.402+/-277.138 $\chi^2$/NDF: 49.2/47

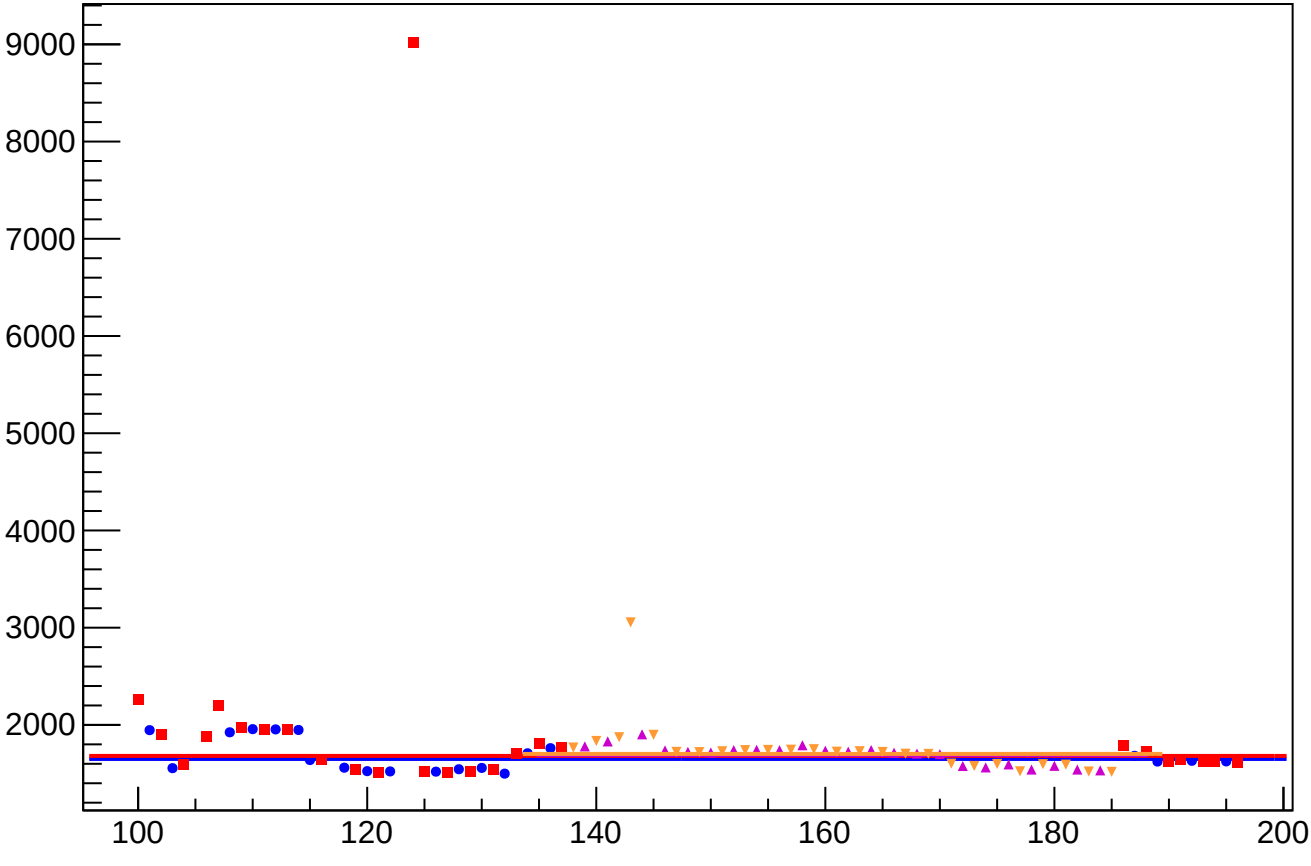
Right: -307.928+/-360.814 $\chi^2$/NDF: 41.9/45

In: -476.210+/-316.646 $\chi^2$/NDF:21.9/42

Out: 40.928+/-305.315 $\chi^2$/NDF:68.1/50

All: -208.223+/-219.787 $\chi^2$/NDF: 91.3/93

# reg_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1649.970+/-0.374 $\chi^2$/NDF: 145363.8/19

Left Out: 1701.583+/-0.275 $\chi^2$/NDF:452379.1/24

Right Out: 1680.962+/-0.348 $\chi^2$/NDF: 399517.9/25

Left In: 1689.259+/-0.279 $\chi^2$/NDF:122317.9/22

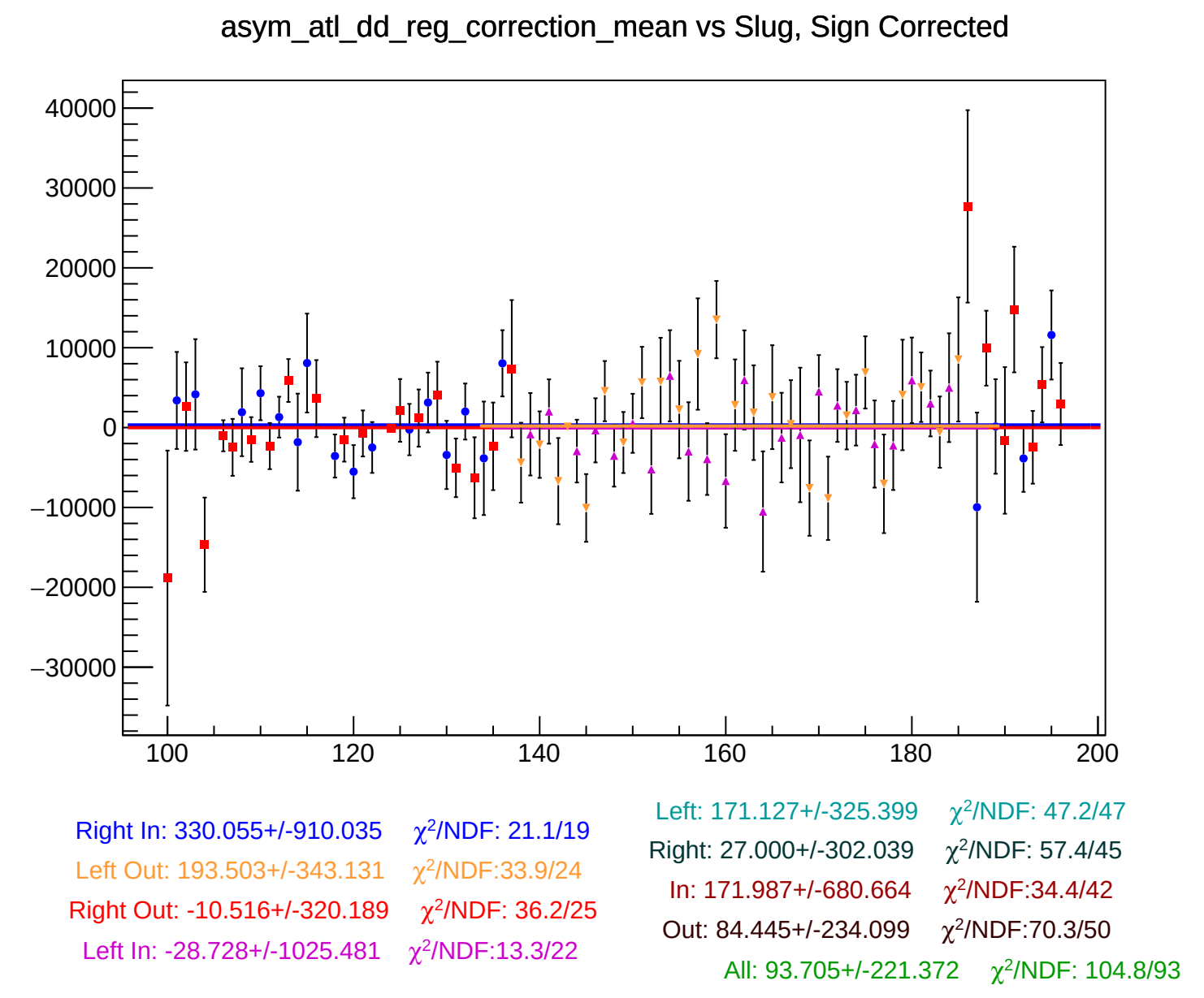
Left: 1695.520+/-0.196 $\chi^2$/NDF: 575685.4/47

Right: 1666.609+/-0.255 $\chi^2$/NDF: 548561.6/45

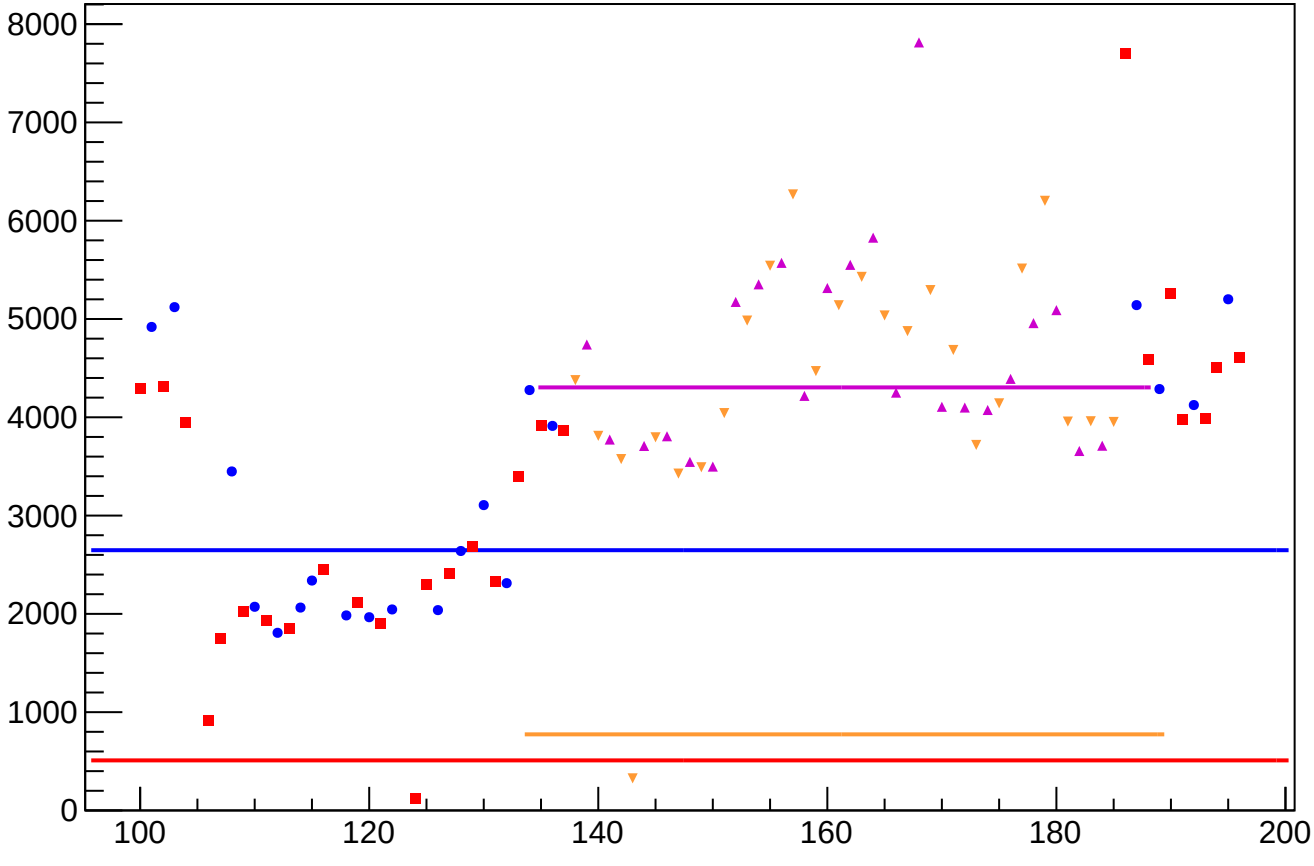
In: 1675.203+/-0.224 $\chi^2$/NDF:274756.4/42

Out: 1693.649+/-0.216 $\chi^2$/NDF:854061.3/50

All: 1684.772+/-0.155 $\chi^2$/NDF: 1132338.3/93


asym_atl_dd_reg_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 330.055+/-910.035 χ²/NDF: 21.1/19
Left Out: 193.503+/-343.131 χ²/NDF:33.9/24
Right Out: -10.516+/-320.189 χ²/NDF: 36.2/25
Left In: -28.728+/-1025.481 χ²/NDF:13.3/22
Left: 171.127+/-325.399 χ²/NDF: 47.2/47
Right: 27.000+/-302.039 χ²/NDF: 57.4/45
In: 171.987+/-680.664 χ²/NDF:34.4/42
Out: 84.445+/-234.099 χ²/NDF:70.3/50
All: 93.705+/-221.372 χ²/NDF: 104.8/93

# asym_atl_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 2647.817+/-0.643 $\chi^2$/NDF: 2466016.4/19

Left Out: 774.232+/-0.243 $\chi^2$/NDF:28085586.8/24

Right Out: 509.361+/-0.226 $\chi^2$/NDF: 18243231.4/25

Left In: 4304.007+/-0.725 $\chi^2$/NDF:1216578.1/22

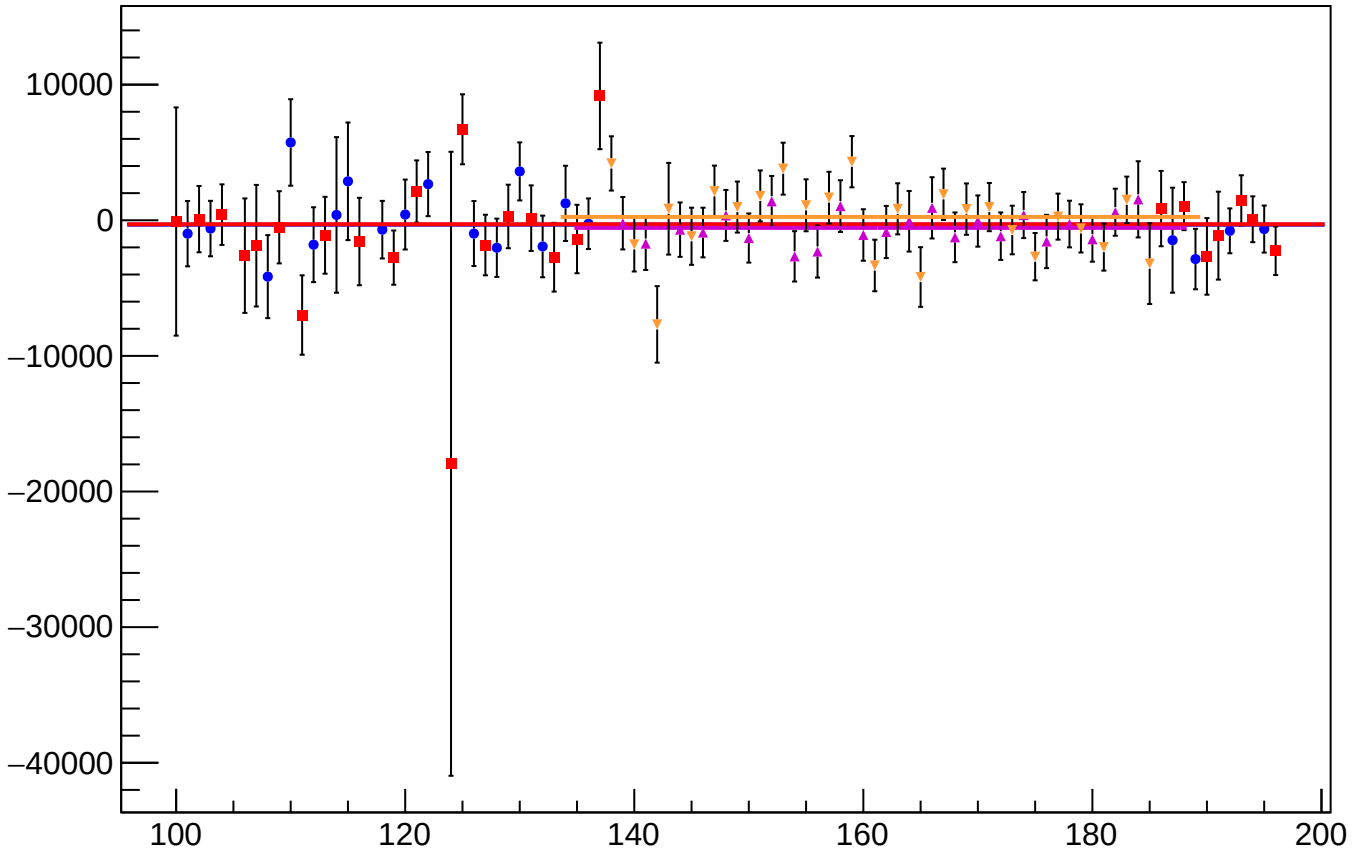
Left: 1129.637+/-0.230 $\chi^2$/NDF: 50611957.4/47

Right: 744.925+/-0.214 $\chi^2$/NDF: 30536420.1/45

In: 3377.477+/-0.481 $\chi^2$/NDF:6600990.6/42

Out: 632.646+/-0.166 $\chi^2$/NDF:46965855.0/50

All: 922.978+/-0.157 $\chi^2$/NDF: 82650092.8/93




Right In: -325.841+/-529.402 $\chi^2$/NDF: 14.2/19

Left Out: 248.216+/-388.827 $\chi^2$/NDF:39.6/24

Right Out: -295.043+/-493.071 $\chi^2$/NDF: 27.7/25

Left In: -559.960+/-395.112 $\chi^2$/NDF:7.5/22

Left: -149.393+/-277.138 $\chi^2$/NDF: 49.2/47

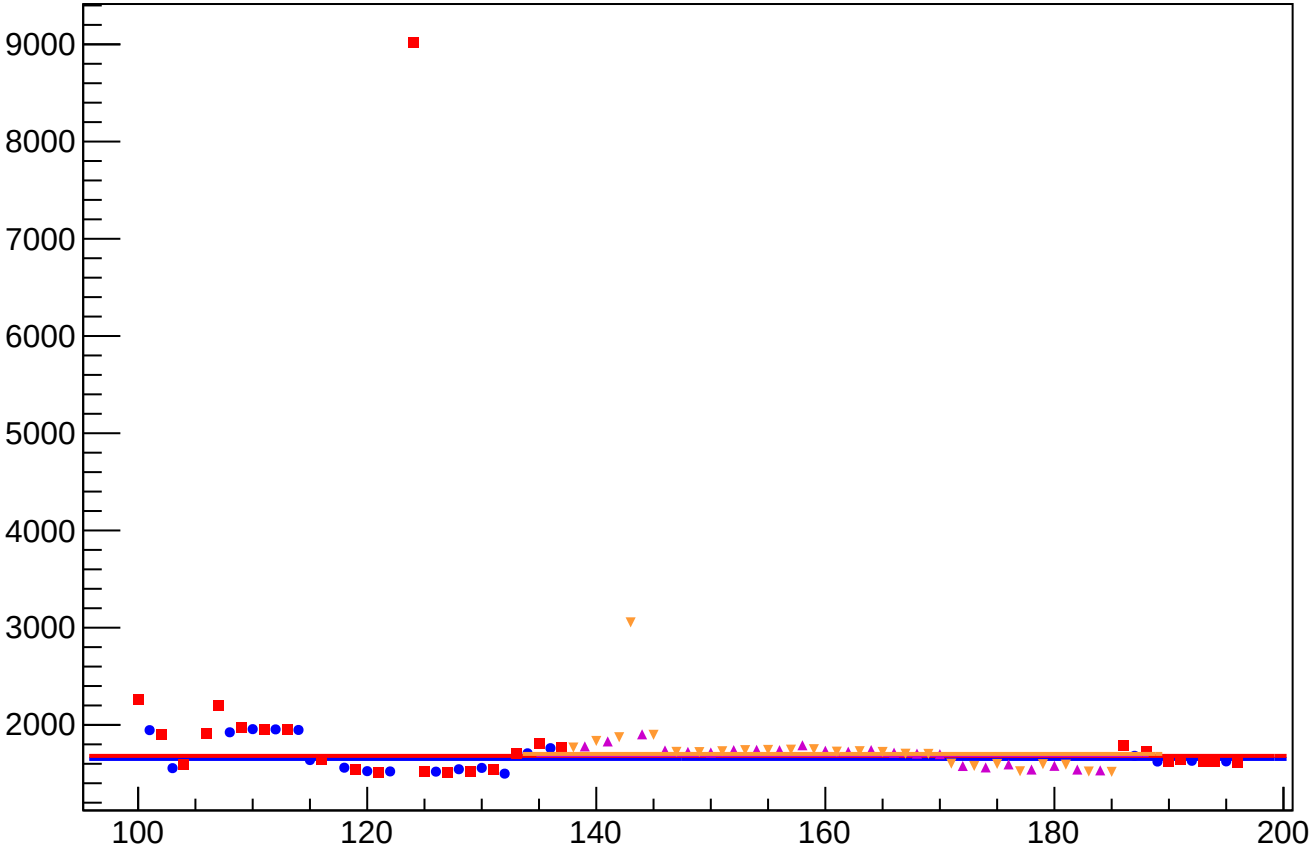
Right: -309.349+/-360.815 $\chi^2$/NDF: 41.9/45

In: -476.205+/-316.646 $\chi^2$/NDF:21.9/42

Out: 39.917+/-305.316 $\chi^2$/NDF:68.1/50

All: -208.745+/-219.787 $\chi^2$/NDF: 91.3/93

# cor_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1649.970+/-0.374 $\chi^2$/NDF: 145363.8/19

Left Out: 1701.583+/-0.275 $\chi^2$/NDF:452379.0/24

Right Out: 1681.435+/-0.348 $\chi^2$/NDF: 401393.5/25

Left In: 1689.259+/-0.279 $\chi^2$/NDF:122317.9/22

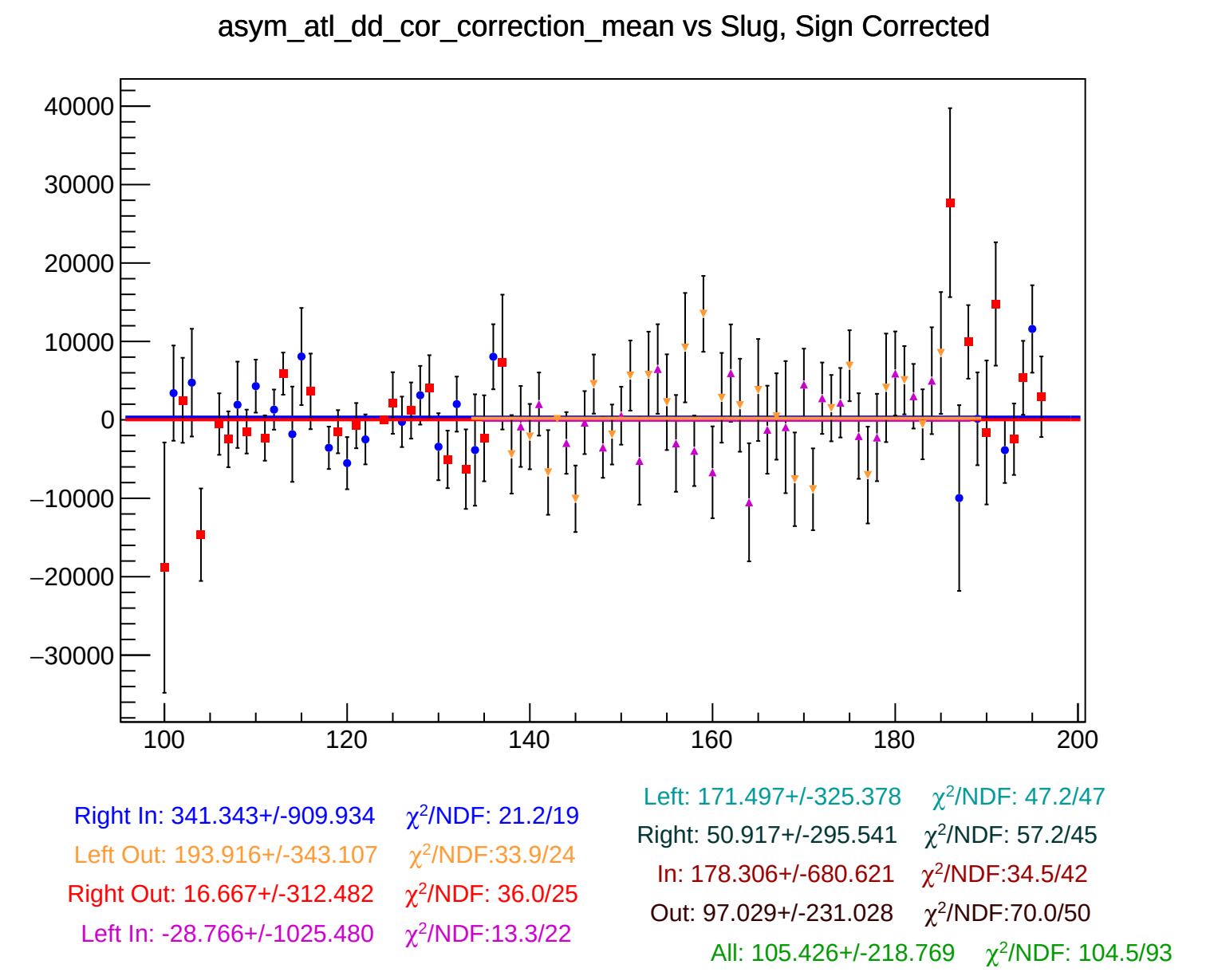
Left: 1695.520+/-0.196 $\chi^2$/NDF: 575685.4/47

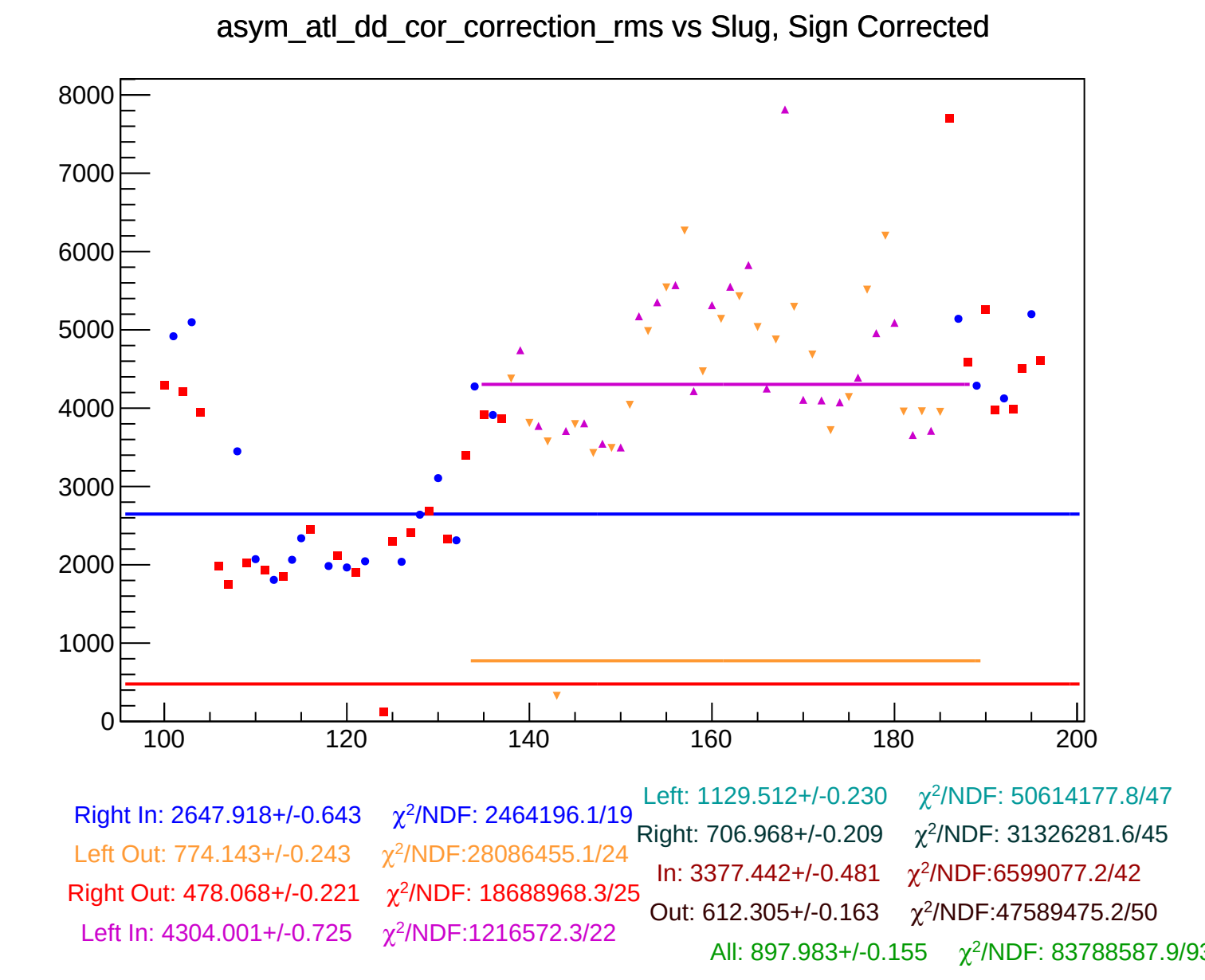
Right: 1666.858+/-0.255 $\chi^2$/NDF: 550549.4/45

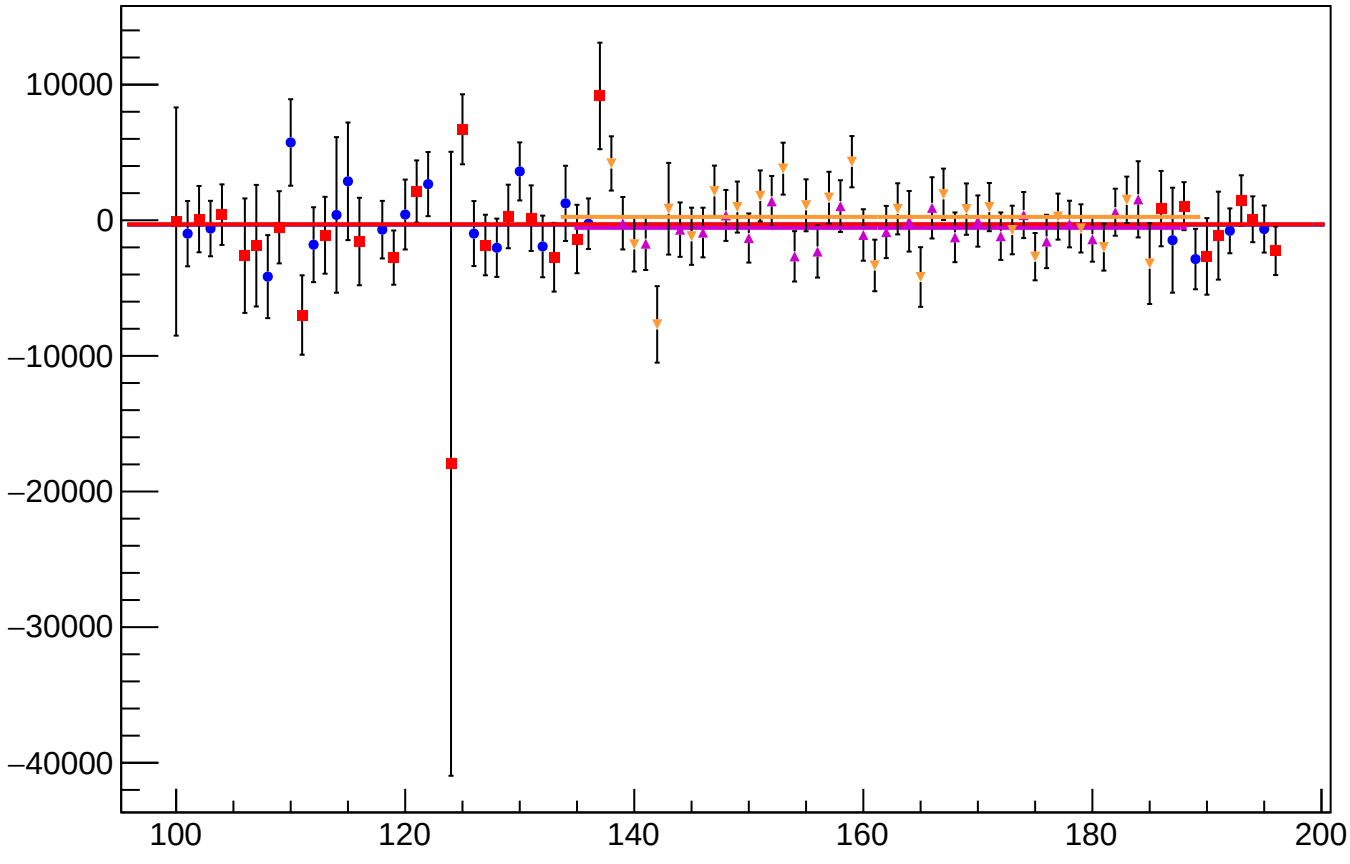
In: 1675.203+/-0.224 $\chi^2$/NDF:274756.5/42

Out: 1693.834+/-0.216 $\chi^2$/NDF:855837.8/50

All: 1684.867+/-0.155 $\chi^2$/NDF: 1134185.5/93


asym_atl_dd_cor_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 341.343+/-909.934 χ²/NDF: 21.2/19
Left Out: 193.916+/-343.107 χ²/NDF:33.9/24
Right Out: 16.667+/-312.482 χ²/NDF: 36.0/25
Left In: -28.766+/-1025.480 χ²/NDF:13.3/22
Left: 171.497+/-325.378 χ²/NDF: 47.2/47
Right: 50.917+/-295.541 χ²/NDF: 57.2/45
In: 178.306+/-680.621 χ²/NDF:34.5/42
Out: 97.029+/-231.028 χ²/NDF:70.0/50
All: 105.426+/-218.769 χ²/NDF: 104.5/93


asym_atl_dd_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
1000
0
100
120
140
160
180
200
Right In: 2647.918+/-0.643 χ²/NDF: 2464196.1/19
Left Out: 774.143+/-0.243 χ²/NDF:28086455.1/24
Right Out: 478.068+/-0.221 χ²/NDF: 18688968.3/25
Left In: 4304.001+/-0.725 χ²/NDF:1216572.3/22
Left: 1129.512+/-0.230 χ²/NDF: 50614177.8/47
Right: 706.968+/-0.209 χ²/NDF: 31326281.6/45
In: 3377.442+/-0.481 χ²/NDF:6599077.2/42
Out: 612.305+/-0.163 χ²/NDF:47589475.2/50
All: 897.983+/-0.155 χ²/NDF: 83788587.9/93




Right In: -325.841+/-529.402 $\chi^2$/NDF: 14.2/19

Left Out: 248.216+/-388.827 $\chi^2$/NDF:39.6/24

Right Out: -295.043+/-493.071 $\chi^2$/NDF: 27.7/25

Left In: -559.960+/-395.112 $\chi^2$/NDF:7.5/22

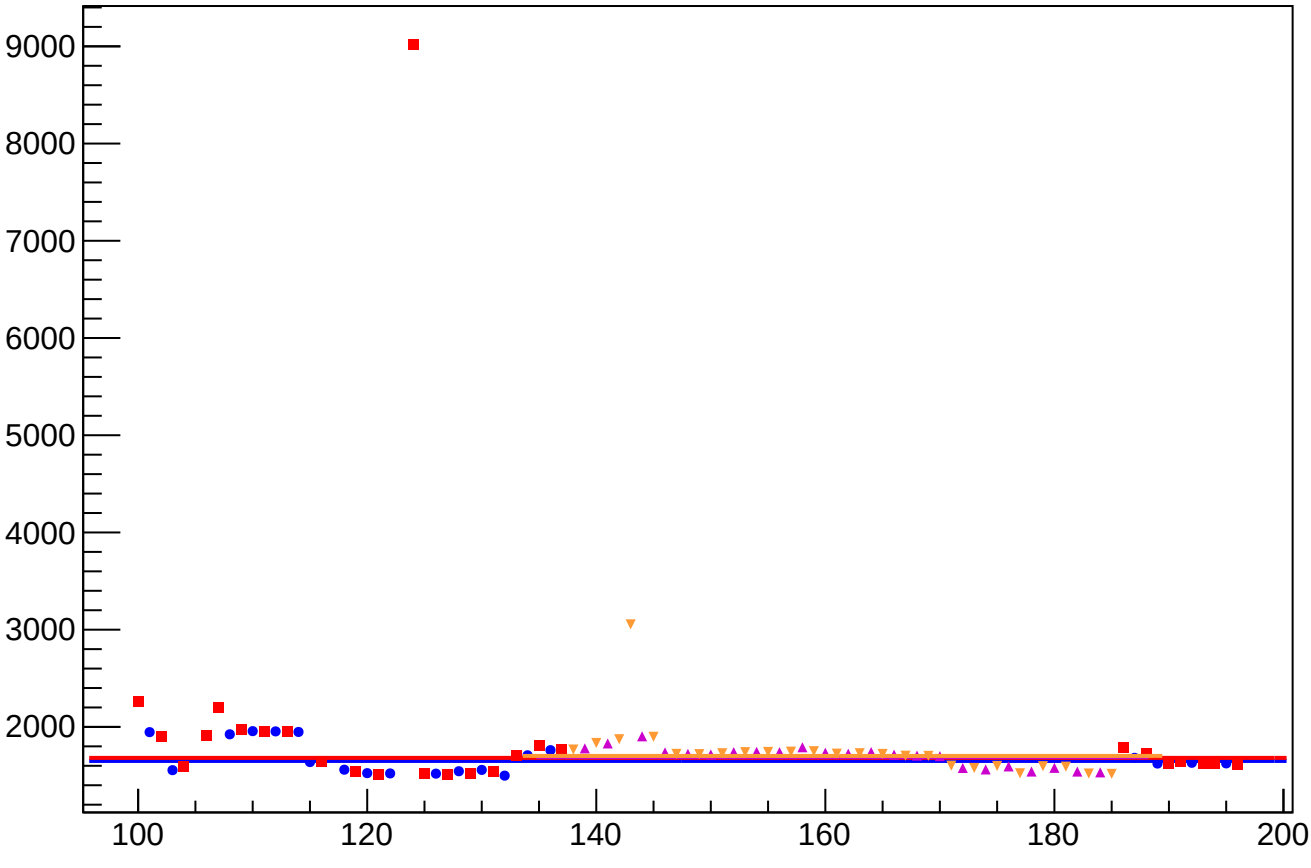
Left: -149.393+/-277.138 $\chi^2$/NDF: 49.2/47

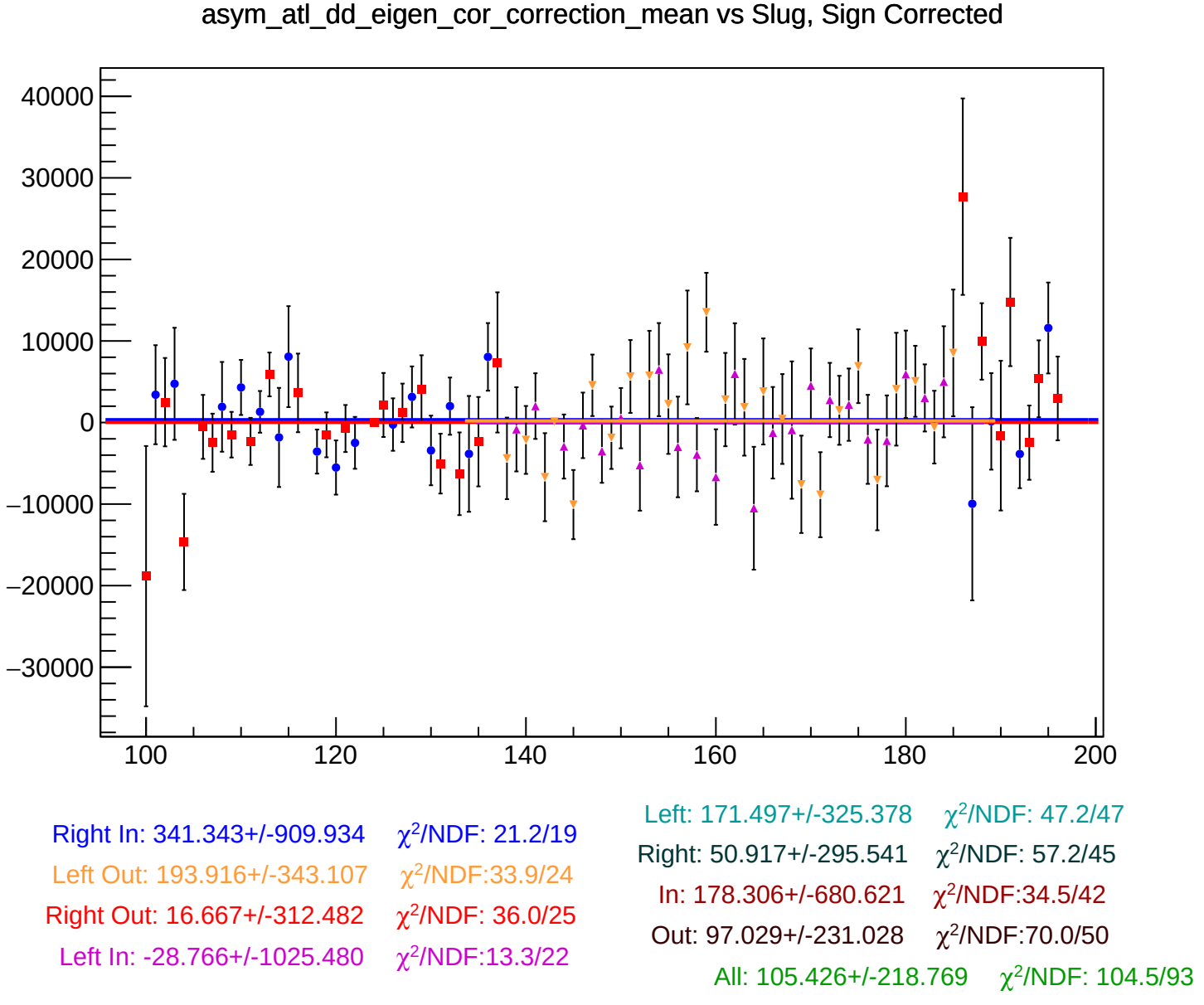
Right: -309.349+/-360.815 $\chi^2$/NDF: 41.9/45

In: -476.205+/-316.646 $\chi^2$/NDF:21.9/42

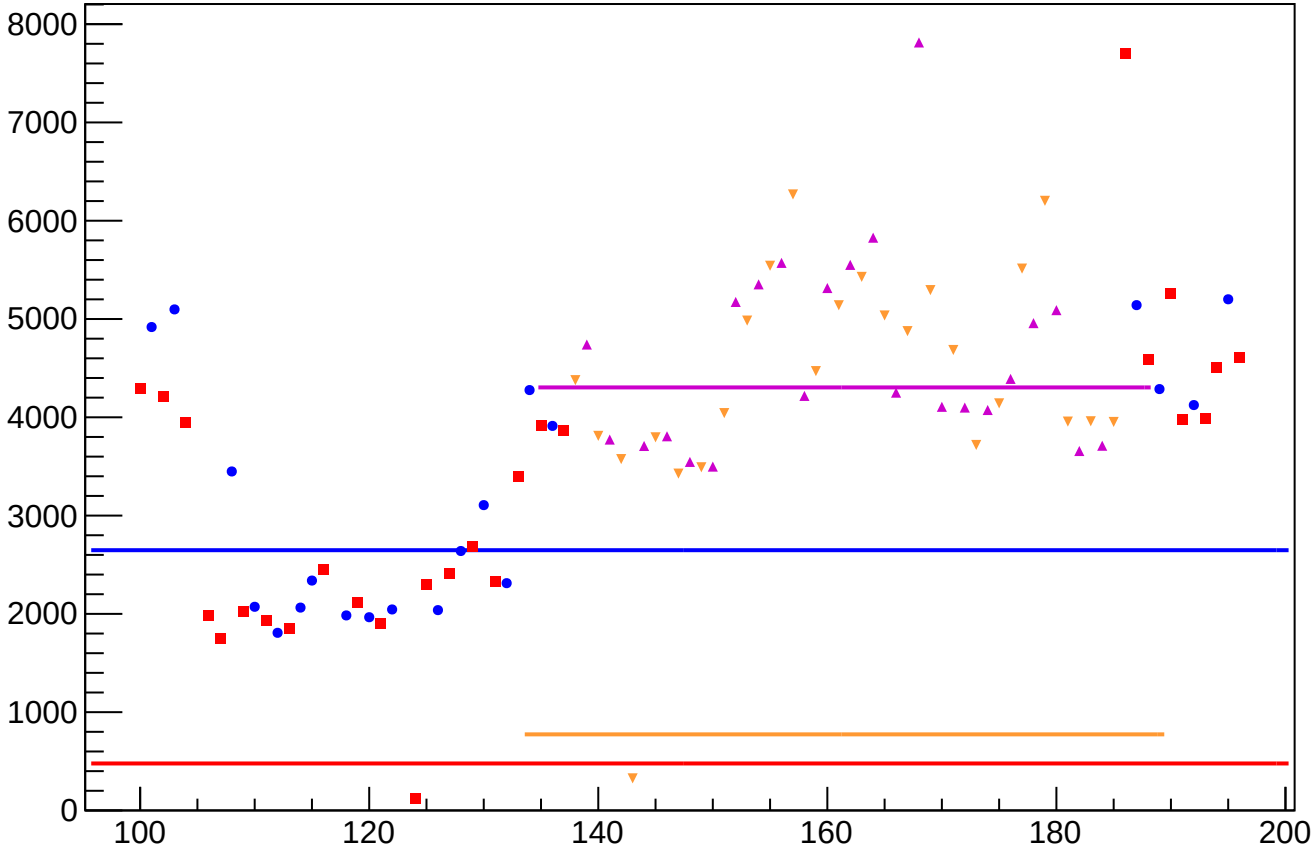
Out: 39.917+/-305.316 $\chi^2$/NDF:68.1/50

All: -208.745+/-219.787 $\chi^2$/NDF: 91.3/93


eigen_cor_asym_atl_dd_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 1649.970+/-0.374 χ²/NDF: 145363.8/19
Left Out: 1701.583+/-0.275 χ²/NDF:452379.0/24
Right Out: 1681.435+/-0.348 χ²/NDF: 401393.5/25
Left In: 1689.259+/-0.279 χ²/NDF:122317.9/22
Left: 1695.520+/-0.196 χ²/NDF: 575685.4/47
Right: 1666.858+/-0.255 χ²/NDF: 550549.4/45
In: 1675.203+/-0.224 χ²/NDF:274756.5/42
Out: 1693.834+/-0.216 χ²/NDF:855837.8/50
All: 1684.867+/-0.155 χ²/NDF: 1134185.5/93


asym_atl_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 341.343+/-909.934 χ²/NDF: 21.2/19
Left Out: 193.916+/-343.107 χ²/NDF:33.9/24
Right Out: 16.667+/-312.482 χ²/NDF: 36.0/25
Left In: -28.766+/-1025.480 χ²/NDF:13.3/22
Left: 171.497+/-325.378 χ²/NDF: 47.2/47
Right: 50.917+/-295.541 χ²/NDF: 57.2/45
In: 178.306+/-680.621 χ²/NDF:34.5/42
Out: 97.029+/-231.028 χ²/NDF:70.0/50
All: 105.426+/-218.769 χ²/NDF: 104.5/93

asym_atl_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2647.918+/-0.643 $\chi^2$/NDF: 2464196.1/19

Left Out: 774.143+/-0.243 $\chi^2$/NDF:28086455.1/24

Right Out: 478.068+/-0.221 $\chi^2$/NDF: 18688968.3/25

Left In: 4304.001+/-0.725 $\chi^2$/NDF:1216572.3/22

Left: 1129.512+/-0.230 $\chi^2$/NDF: 50614177.8/47

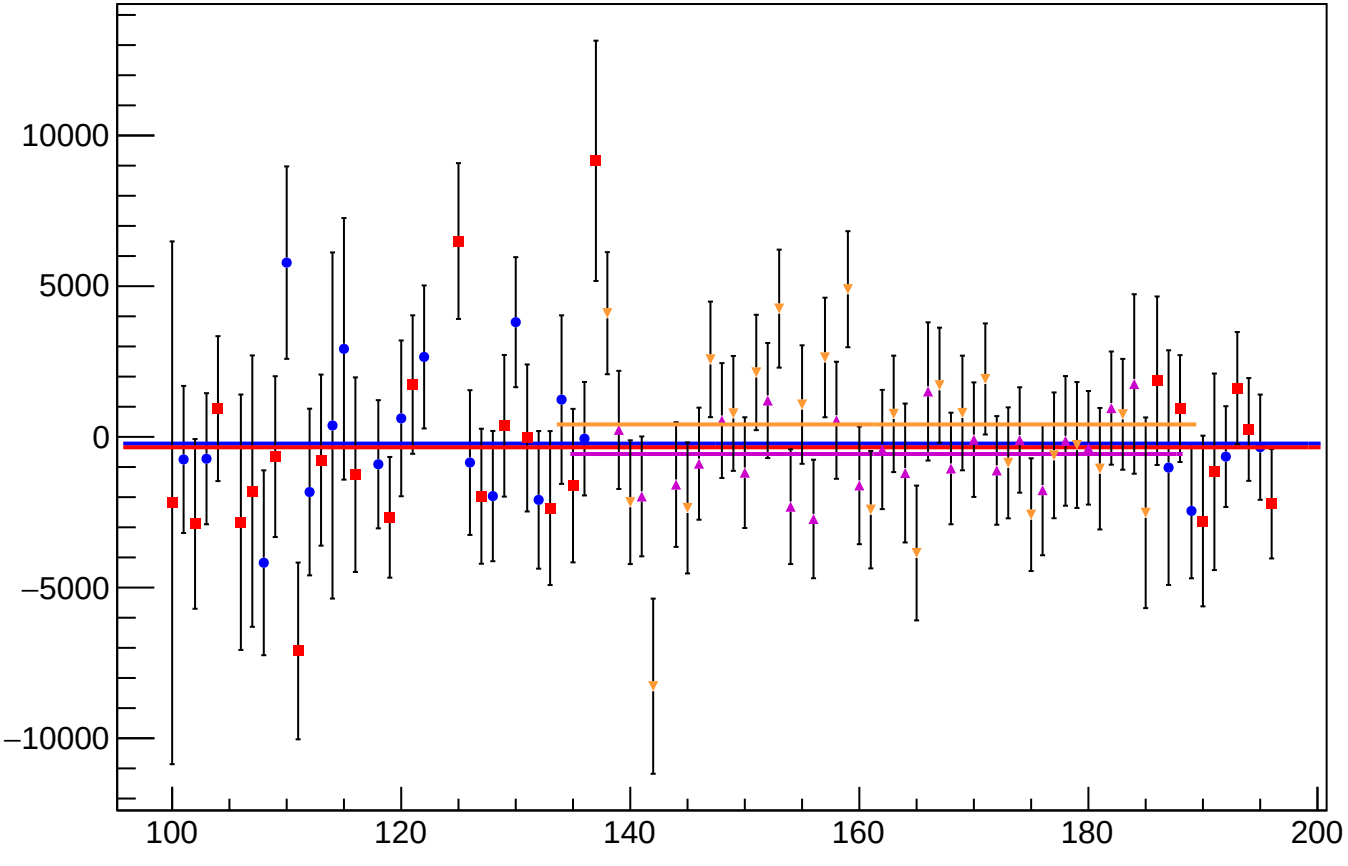
Right: 706.968+/-0.209 $\chi^2$/NDF: 31326281.6/45

In: 3377.442+/-0.481 $\chi^2$/NDF:6599077.2/42

Out: 612.305+/-0.163 $\chi^2$/NDF:47589475.2/50

All: 897.983+/-0.155 $\chi^2$/NDF: 83788587.9/93

# dit_asym_atl_dd_mean vs Slug, Sign Corrected




Right In: -223.245+/-534.326 $\chi^2$/NDF: 14.1/19

Left Out: 413.309+/-410.536 $\chi^2$/NDF:40.0/23

Right Out: -346.192+/-499.860 $\chi^2$/NDF: 27.6/24

Left In: -568.823+/-412.052 $\chi^2$/NDF:7.7/22

Left: -75.946+/-290.827 $\chi^2$/NDF: 50.6/46

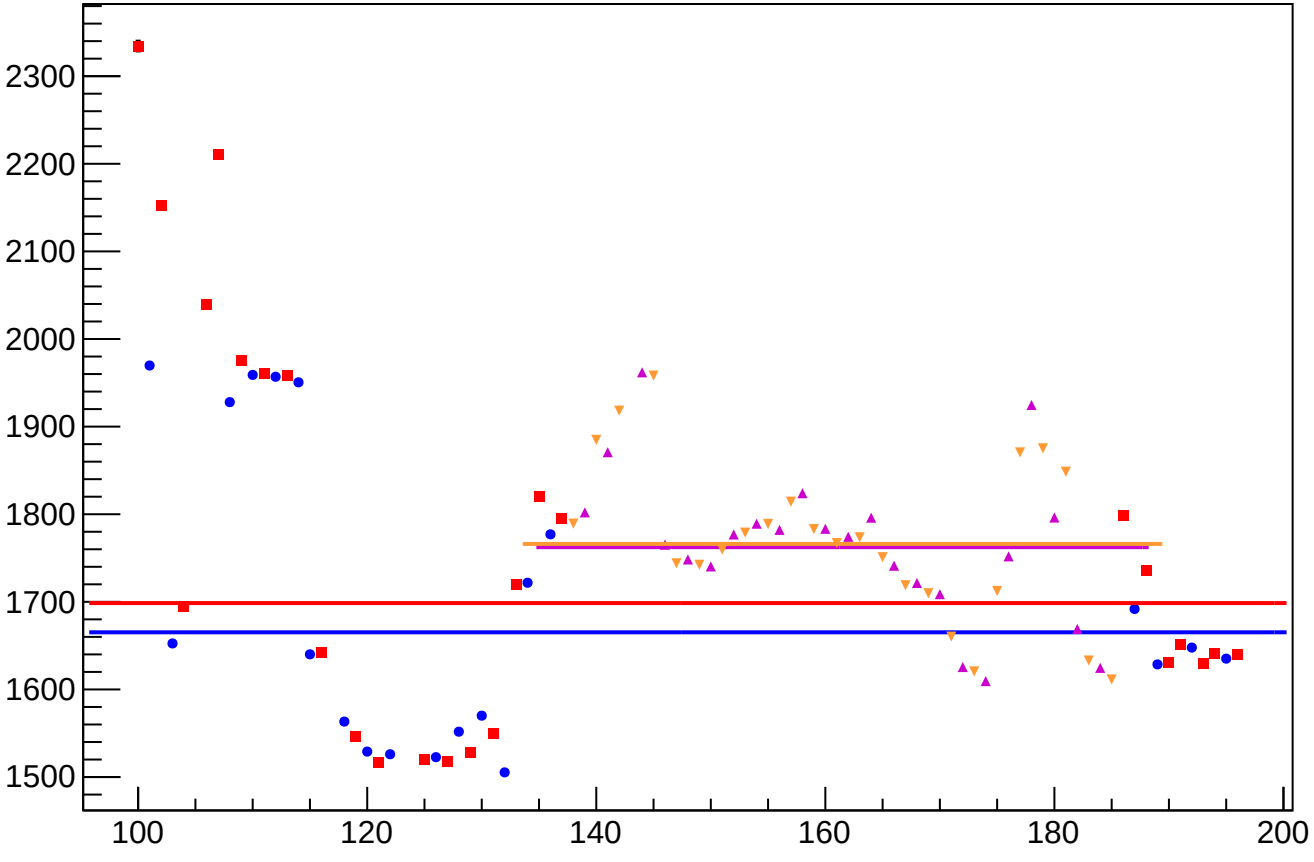
Right: -288.811+/-365.031 $\chi^2$/NDF: 41.8/44

In: -439.950+/-326.297 $\chi^2$/NDF:22.1/42

Out: 107.367+/-317.251 $\chi^2$/NDF:69.0/48

All: -158.600+/-227.461 $\chi^2$/NDF: 92.6/91

# dit_asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 1665.230+/-0.378 $\chi^2$/NDF: 142683.0/19

Left Out: 1766.115+/-0.290 $\chi^2$/NDF:83252.4/23

Right Out: 1698.604+/-0.353 $\chi^2$/NDF: 241550.1/24

Left In: 1762.405+/-0.291 $\chi^2$/NDF:80090.6/22

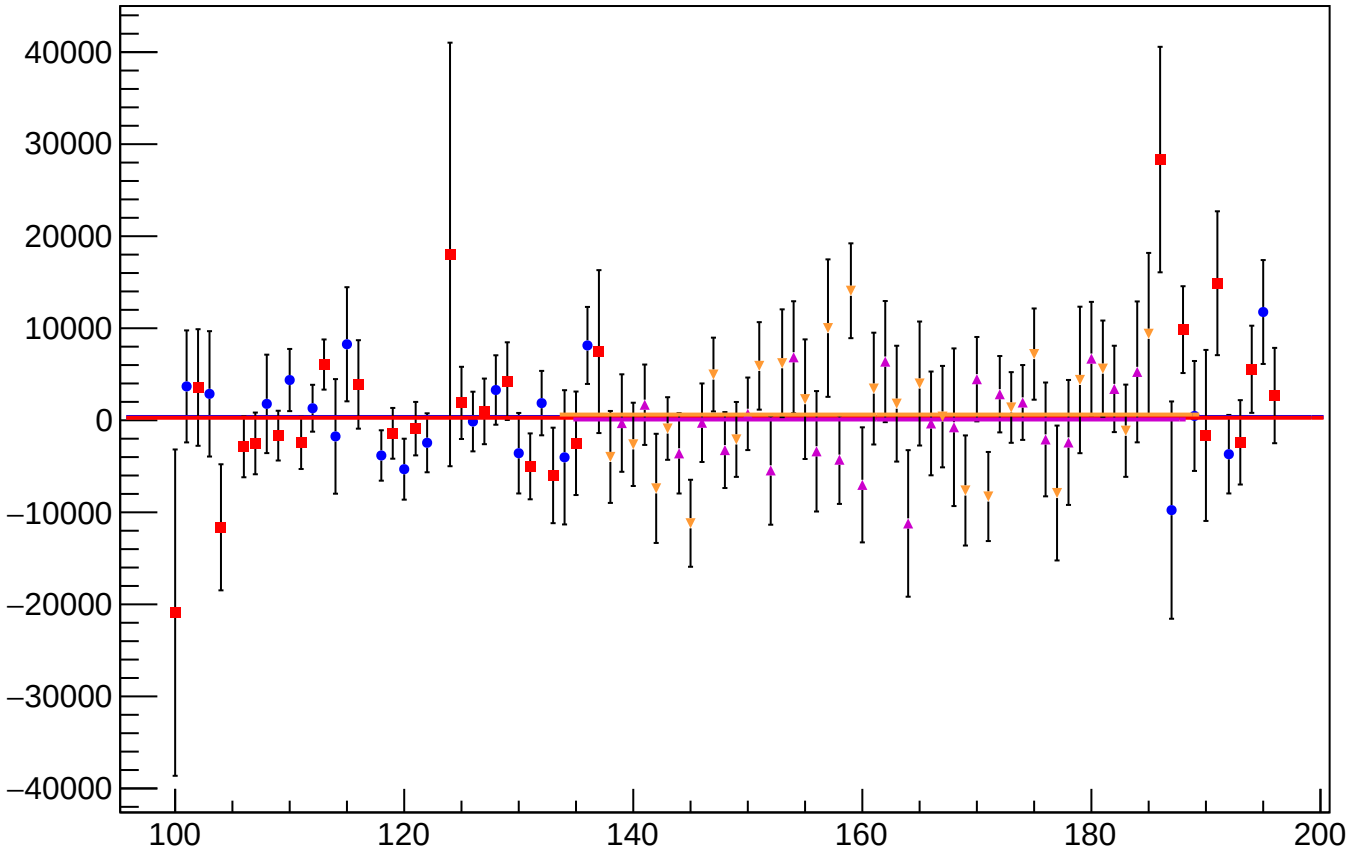
Left: 1764.267+/-0.206 $\chi^2$/NDF: 163424.4/46

Right: 1683.051+/-0.258 $\chi^2$/NDF: 388399.5/44

In: 1726.167+/-0.231 $\chi^2$/NDF:264255.0/42

Out: 1738.875+/-0.224 $\chi^2$/NDF:346625.4/48

All: 1732.703+/-0.161 $\chi^2$/NDF: 612440.8/91




Right In: 358.269+/-914.348 $\chi^2$/NDF: 21.0/19

Left Out: 619.658+/-1034.658 $\chi^2$/NDF:33.1/24

Right Out: 275.344+/-819.568 $\chi^2$/NDF: 34.3/25

Left In: 85.511+/-1082.508 $\chi^2$/NDF:12.9/22

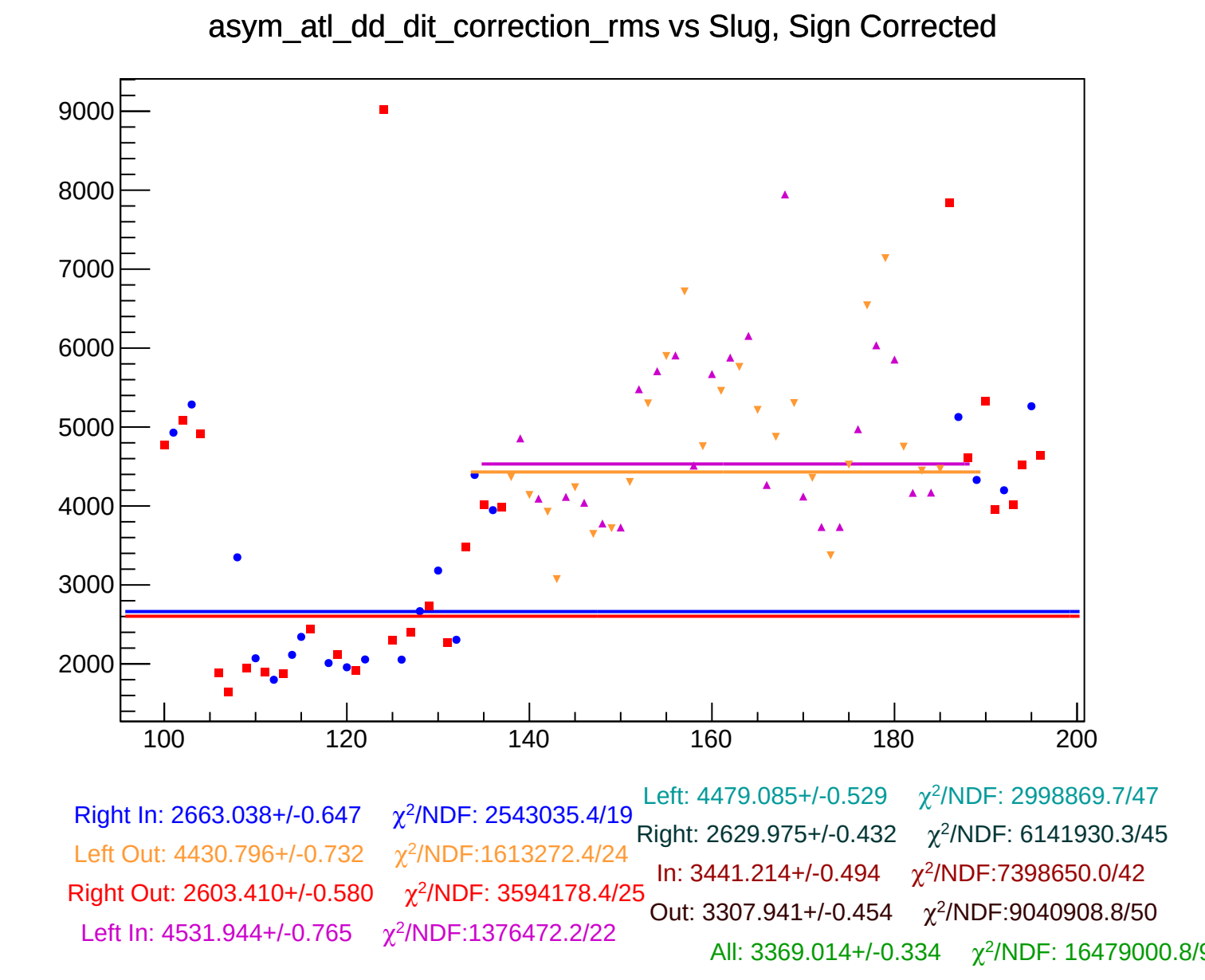
Left: 364.651+/-747.958 $\chi^2$/NDF: 46.1/47

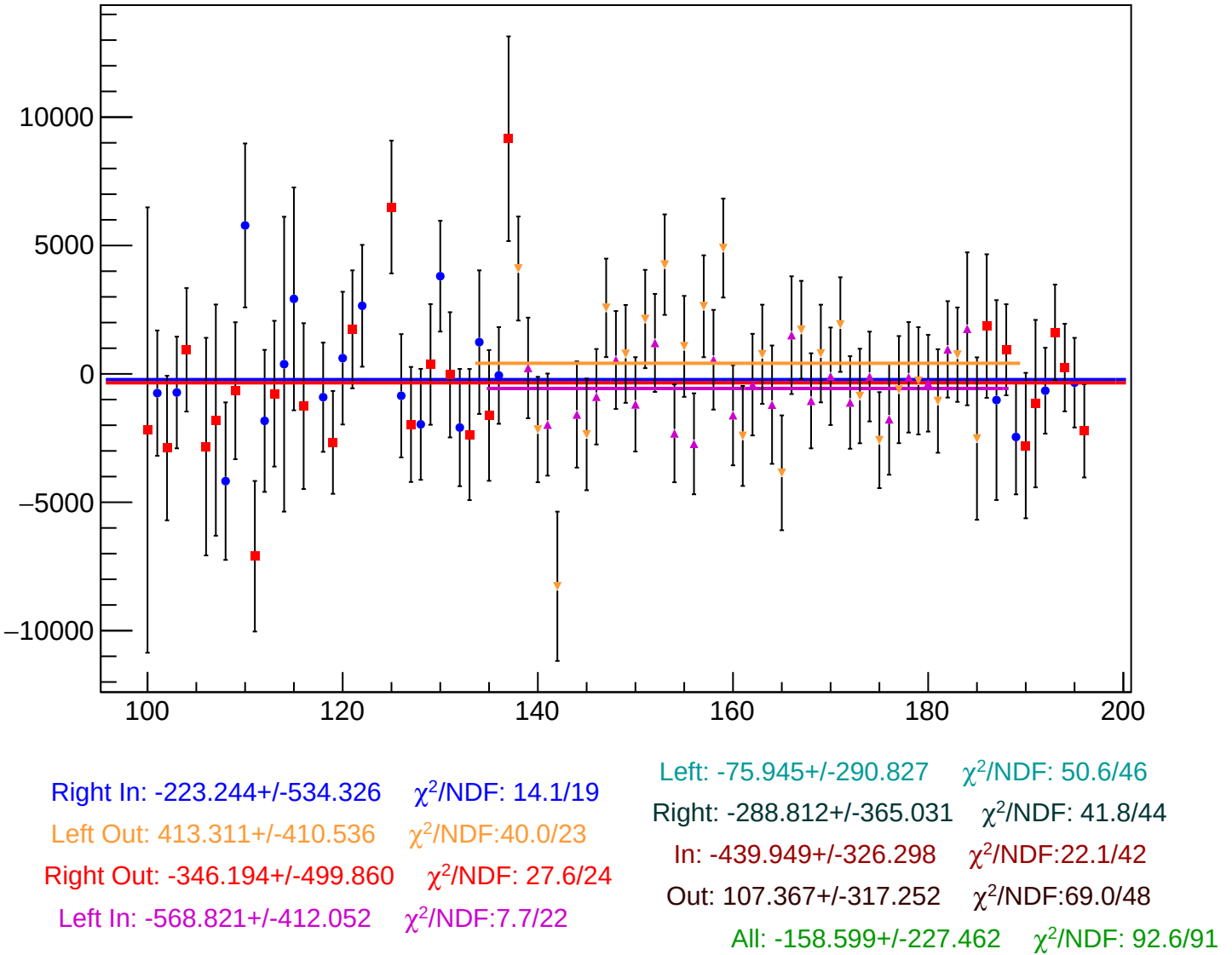
Right: 312.287+/-610.289 $\chi^2$/NDF: 55.3/45

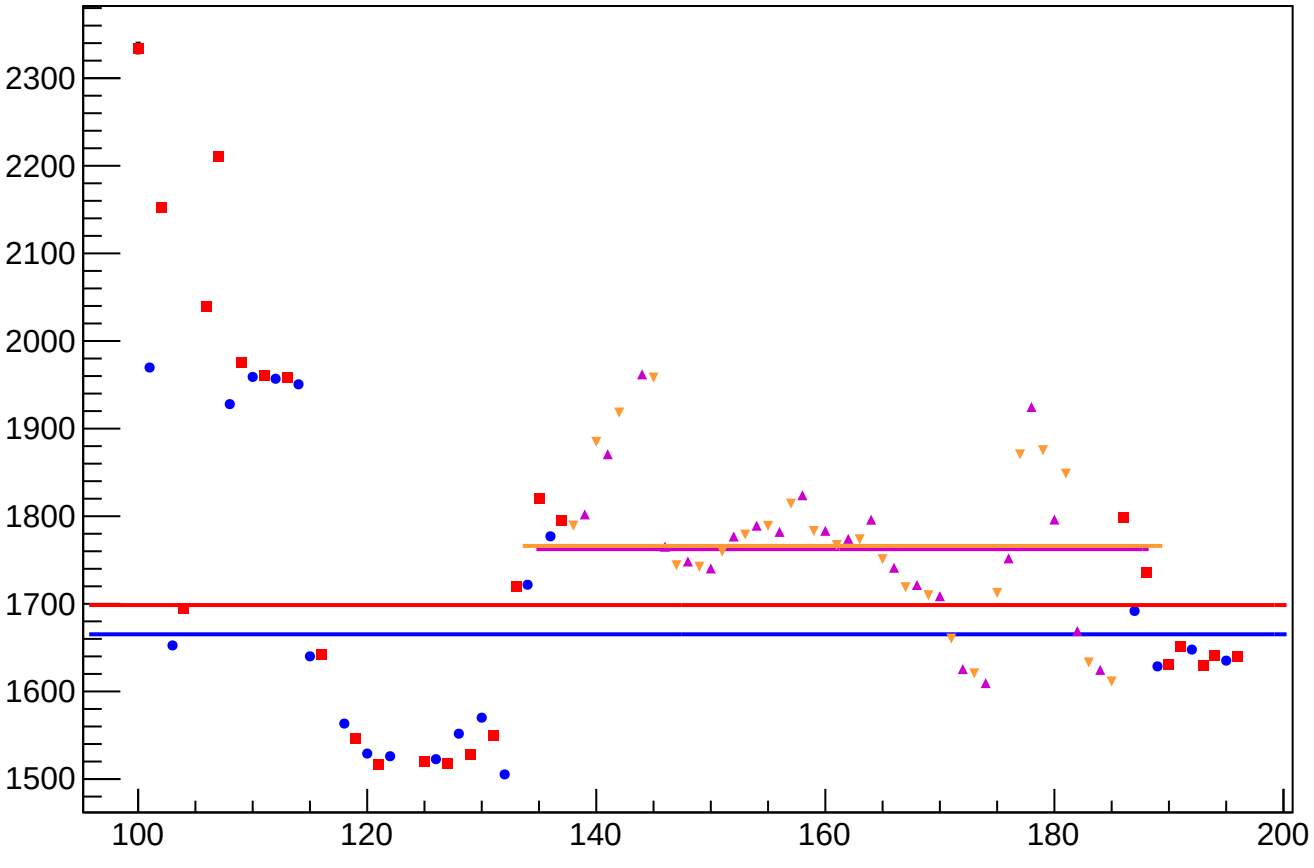
In: 244.698+/-698.516 $\chi^2$/NDF:33.9/42

Out: 408.091+/-642.438 $\chi^2$/NDF:67.4/50

All: 333.215+/-472.857 $\chi^2$/NDF: 101.4/93


asym_atl_dd_dit_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 2663.038+/-0.647 χ²/NDF: 2543035.4/19
Left Out: 4430.796+/-0.732 χ²/NDF:1613272.4/24
Right Out: 2603.410+/-0.580 χ²/NDF: 3594178.4/25
Left In: 4531.944+/-0.765 χ²/NDF:1376472.2/22
Left: 4479.085+/-0.529 χ²/NDF: 2998869.7/47
Right: 2629.975+/-0.432 χ²/NDF: 6141930.3/45
In: 3441.214+/-0.494 χ²/NDF:7398650.0/42
Out: 3307.941+/-0.454 χ²/NDF:9040908.8/50
All: 3369.014+/-0.334 χ²/NDF: 16479000.8/9


eigen_dit_asym_atl_dd_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -223.244+/-534.326 χ²/NDF: 14.1/19
Left Out: 413.311+/-410.536 χ²/NDF:40.0/23
Right Out: -346.194+/-499.860 χ²/NDF: 27.6/24
Left In: -568.821+/-412.052 χ²/NDF:7.7/22
Left: -75.945+/-290.827 χ²/NDF: 50.6/46
Right: -288.812+/-365.031 χ²/NDF: 41.8/44
In: -439.949+/-326.298 χ²/NDF:22.1/42
Out: 107.367+/-317.252 χ²/NDF:69.0/48
All: -158.599+/-227.462 χ²/NDF: 92.6/91




Right In: 1665.230+/-0.378 $\chi^2$/NDF: 142683.0/19

Left Out: 1766.116+/-0.290 $\chi^2$/NDF:83255.3/23

Right Out: 1698.604+/-0.353 $\chi^2$/NDF: 241549.3/24

Left In: 1762.406+/-0.291 $\chi^2$/NDF:80093.2/22

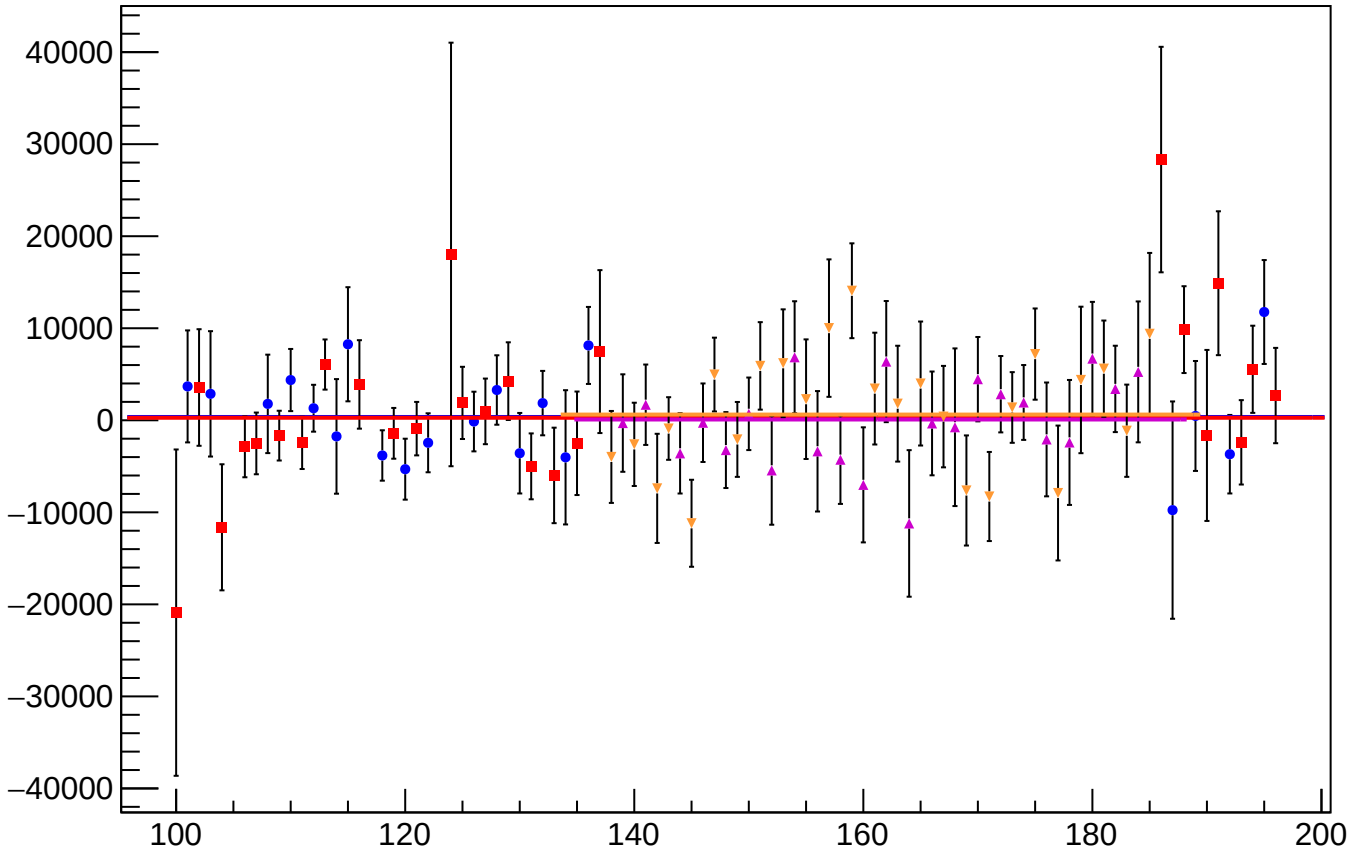
Left: 1764.268+/-0.206 $\chi^2$/NDF: 163429.9/46

Right: 1683.051+/-0.258 $\chi^2$/NDF: 388398.7/44

In: 1726.167+/-0.231 $\chi^2$/NDF:264258.7/42

Out: 1738.875+/-0.224 $\chi^2$/NDF:346628.3/48

All: 1732.704+/-0.161 $\chi^2$/NDF: 612447.3/91




Right In: 358.262+/-914.345 $\chi^2$/NDF: 21.0/19

Left Out: 619.663+/-1034.659 $\chi^2$/NDF:33.1/24

Right Out: 275.338+/-819.565 $\chi^2$/NDF: 34.3/25

Left In: 85.511+/-1082.509 $\chi^2$/NDF:12.9/22

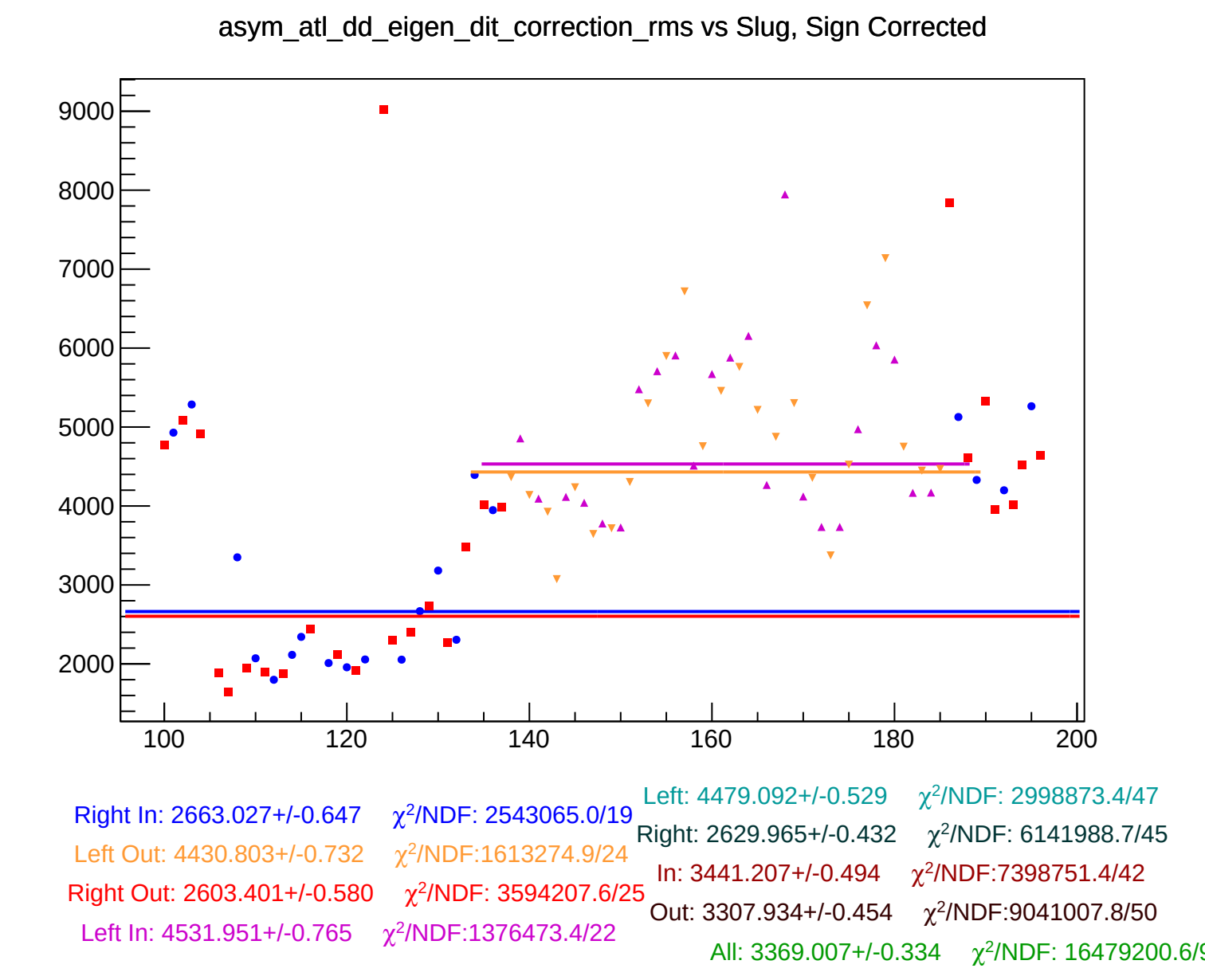
Left: 364.653+/-747.959 $\chi^2$/NDF: 46.1/47

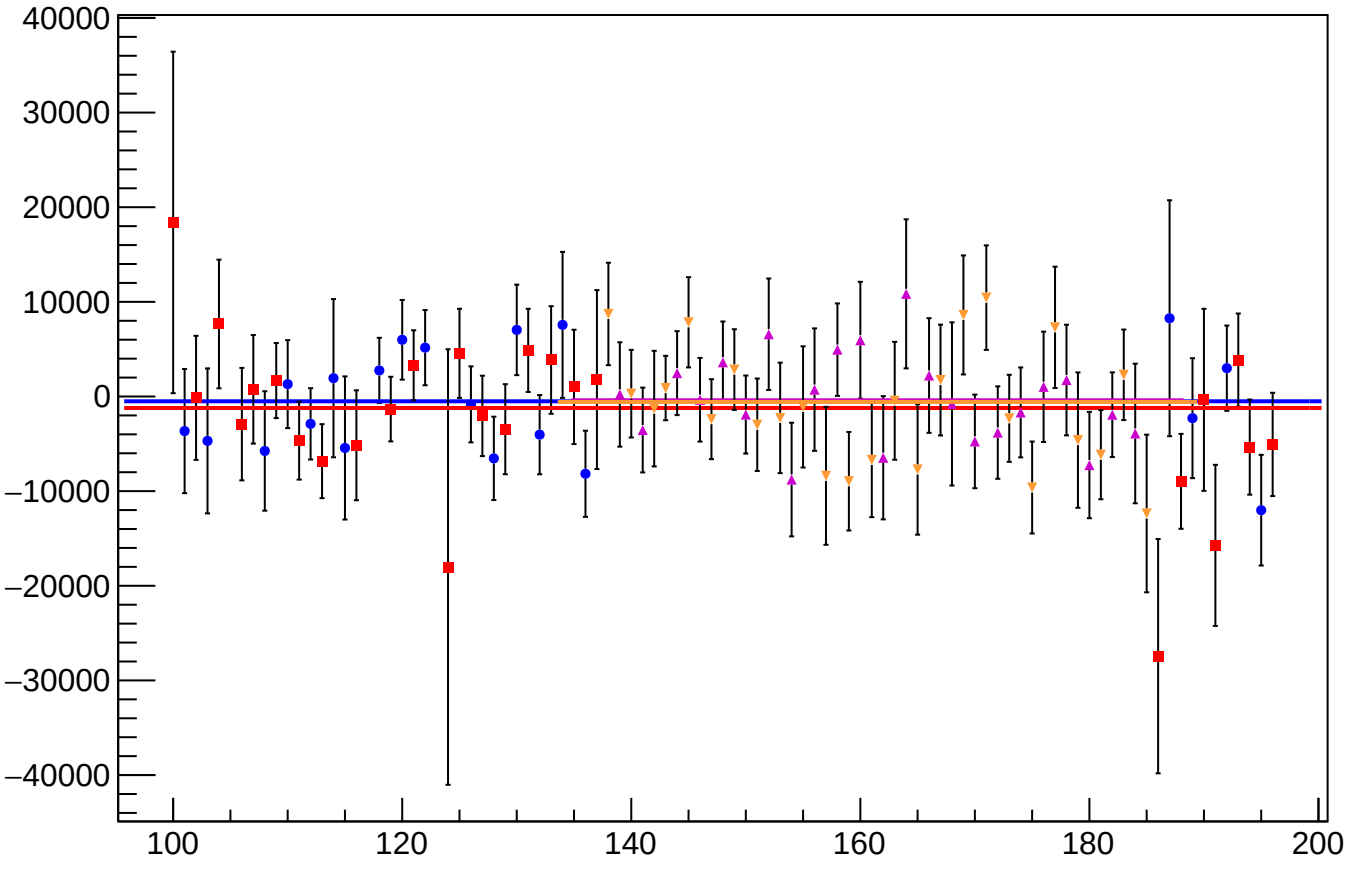
Right: 312.281+/-610.287 $\chi^2$/NDF: 55.3/45

In: 244.695+/-698.515 $\chi^2$/NDF:33.9/42

Out: 408.088+/-642.438 $\chi^2$/NDF:67.4/50

All: 333.212+/-472.856 $\chi^2$/NDF: 101.4/93


asym_atl_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 2663.027+/-0.647 χ²/NDF: 2543065.0/19
Left Out: 4430.803+/-0.732 χ²/NDF:1613274.9/24
Right Out: 2603.401+/-0.580 χ²/NDF: 3594207.6/25
Left In: 4531.951+/-0.765 χ²/NDF:1376473.4/22
Left: 4479.092+/-0.529 χ²/NDF: 2998873.4/47
Right: 2629.965+/-0.432 χ²/NDF: 6141988.7/45
In: 3441.207+/-0.494 χ²/NDF:7398751.4/42
Out: 3307.934+/-0.454 χ²/NDF:9041007.8/50
All: 3369.007+/-0.334 χ²/NDF: 16479200.6/9




Right In: -505.597+/-1112.911 $\chi^2$/NDF: 21.7/19

Left Out: -573.122+/-1054.836 $\chi^2$/NDF:28.8/24

Right Out: -1213.187+/-1033.246 $\chi^2$/NDF: 25.6/25

Left In: -398.404+/-1109.490 $\chi^2$/NDF:14.0/22

Left: -490.172+/-764.473 $\chi^2$/NDF: 42.8/47

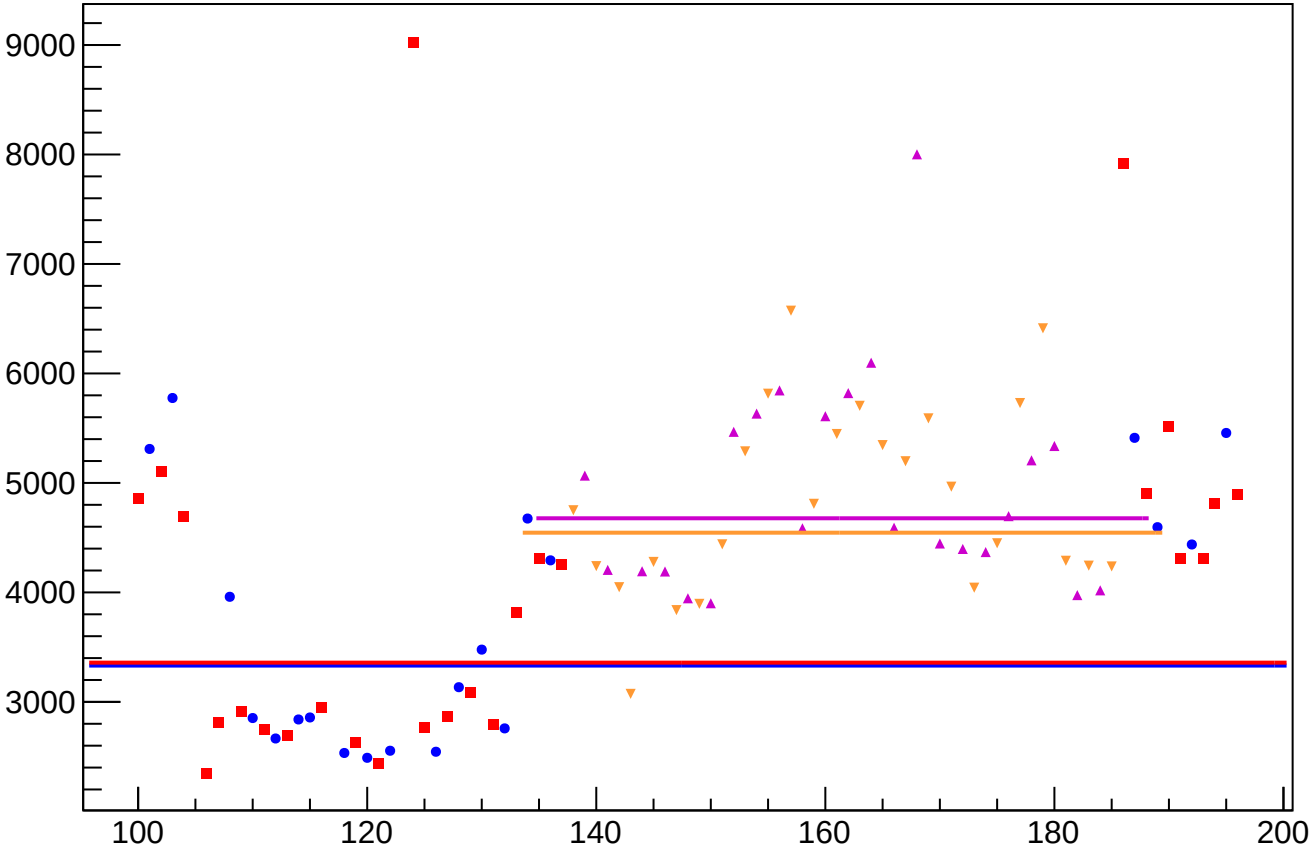
Right: -885.622+/-757.214 $\chi^2$/NDF: 47.5/45

In: -451.835+/-785.735 $\chi^2$/NDF:35.7/42

Out: -899.772+/-738.130 $\chi^2$/NDF:54.6/50

All: -689.783+/-537.979 $\chi^2$/NDF: 90.4/93

# asym_atl_dd_rms vs Slug, Sign Corrected




Right In: 3331.666+/-0.787 $\chi^2$/NDF: 1558377.9/19

Left Out: 4545.493+/-0.746 $\chi^2$/NDF:1258528.5/24

Right Out: 3358.427+/-0.723 $\chi^2$/NDF: 1992388.2/25

Left In: 4677.049+/-0.785 $\chi^2$/NDF:959885.7/22

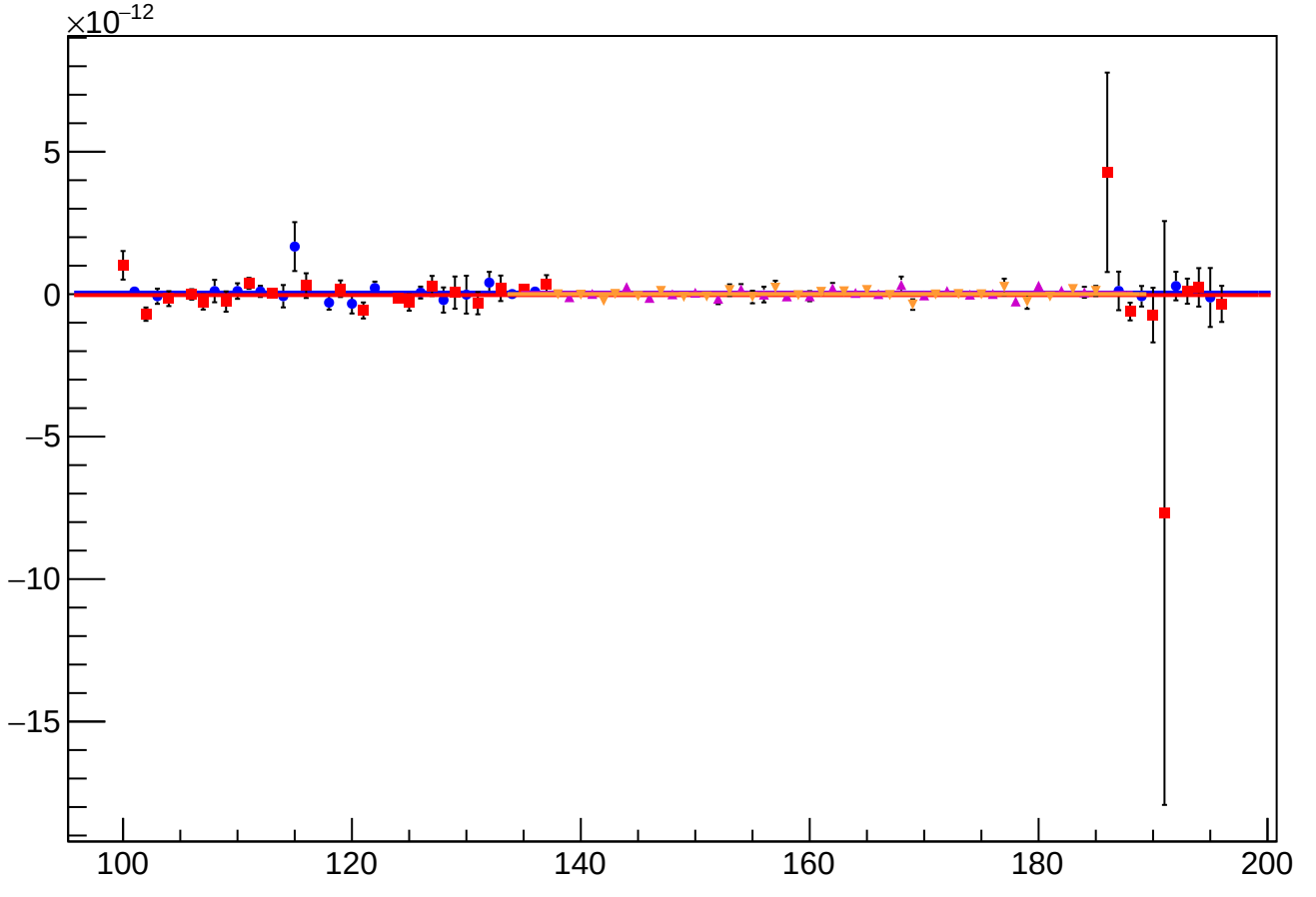
Left: 4607.951+/-0.541 $\chi^2$/NDF: 2233183.6/47

Right: 3346.184+/-0.532 $\chi^2$/NDF: 3551393.5/45

In: 4006.428+/-0.556 $\chi^2$/NDF:3984172.5/42

Out: 3933.205+/-0.519 $\chi^2$/NDF:4557360.5/50

All: 3967.327+/-0.379 $\chi^2$/NDF: 8550808.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 9.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 36.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.6/22

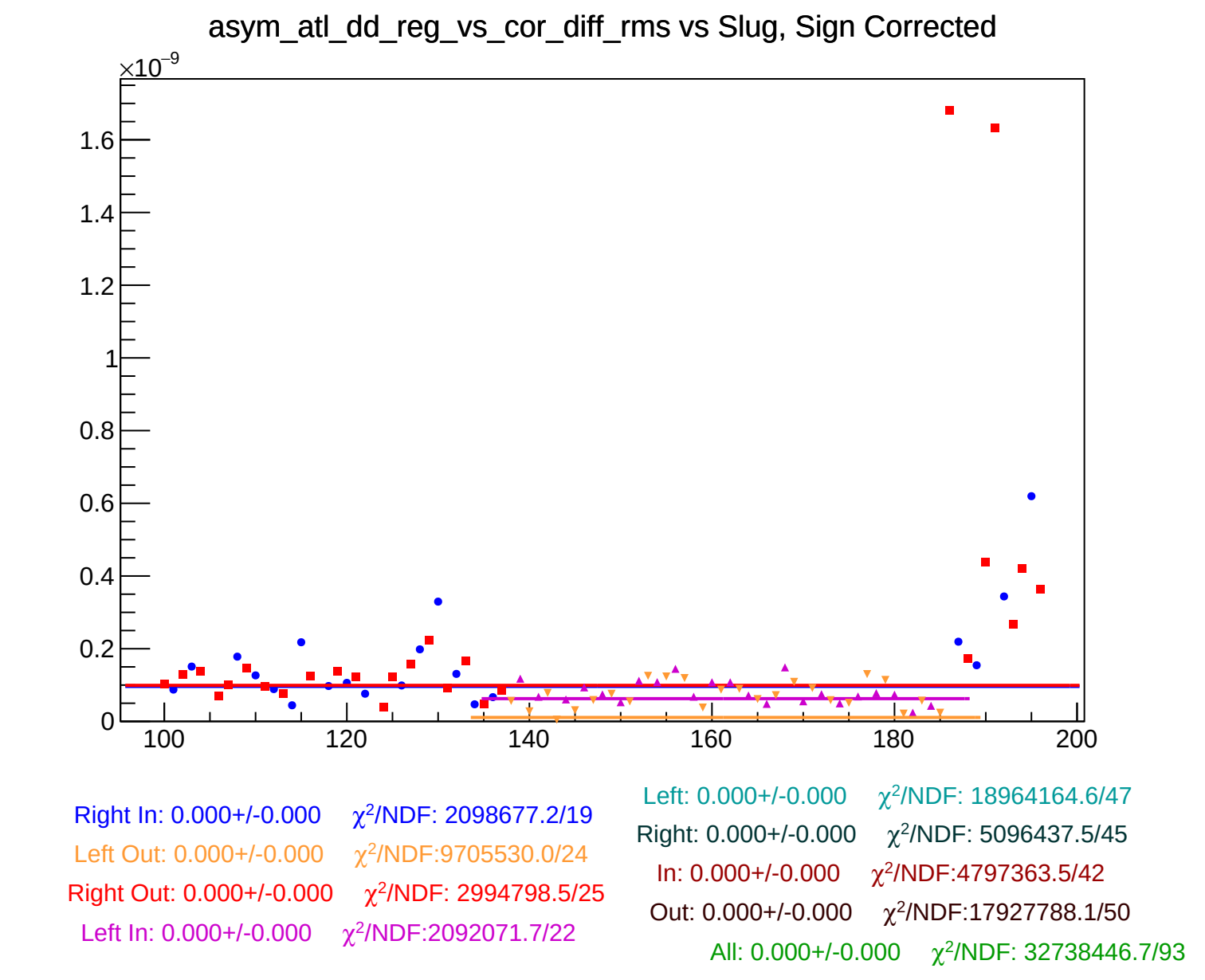
Left: 0.000+/-0.000 $\chi^2$/NDF: 40.9/47

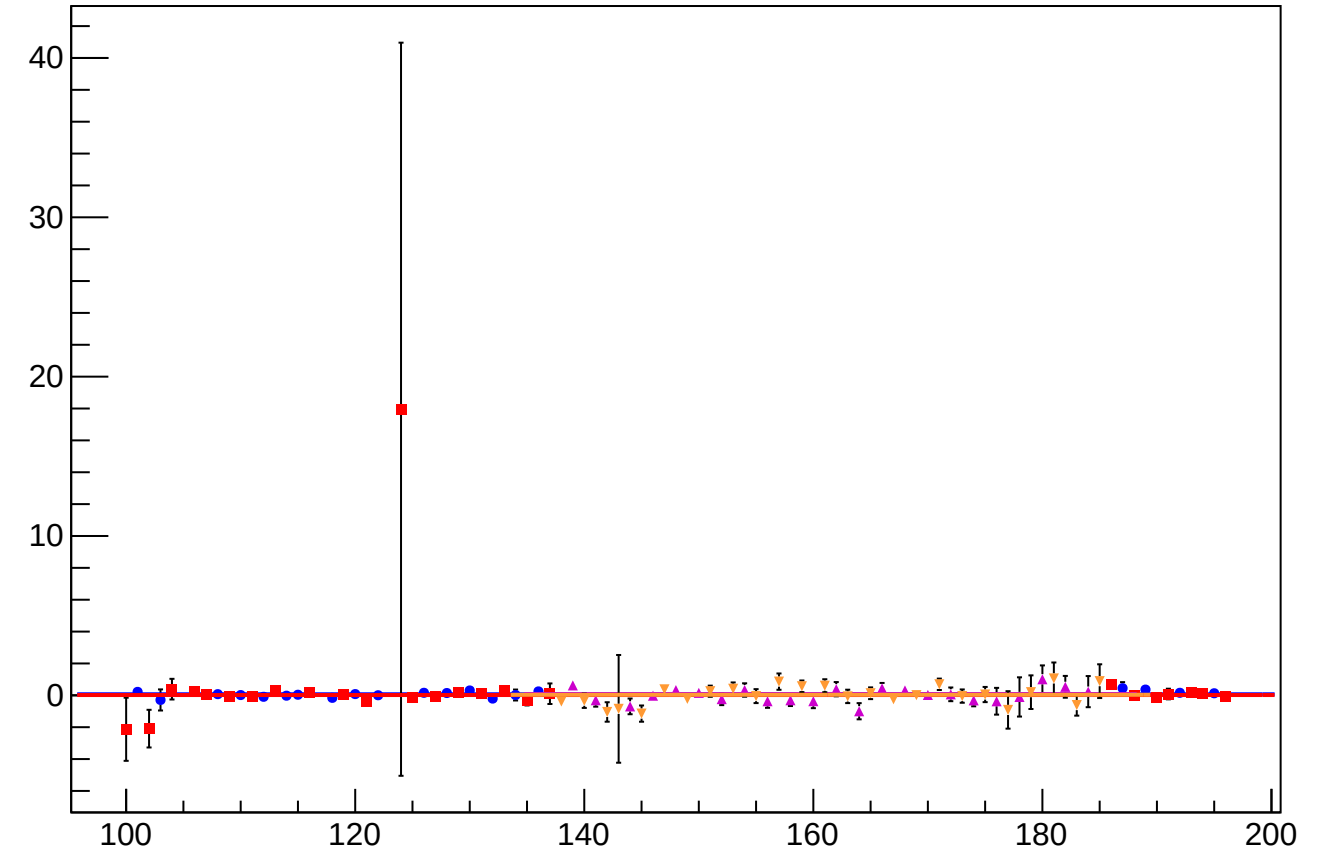
Right: 0.000+/-0.000 $\chi^2$/NDF: 47.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:30.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:55.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 88.6/93


asym_atl_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2098677.2/19
Left Out: 0.000+/-0.000 χ²/NDF:9705530.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 2994798.5/25
Left In: 0.000+/-0.000 χ²/NDF:2092071.7/22
Left: 0.000+/-0.000 χ²/NDF: 18964164.6/47
Right: 0.000+/-0.000 χ²/NDF: 5096437.5/45
In: 0.000+/-0.000 χ²/NDF:4797363.5/42
Out: 0.000+/-0.000 χ²/NDF:17927788.1/50
All: 0.000+/-0.000 χ²/NDF: 32738446.7/93




Right In: 0.066+/-0.041 $\chi^2$/NDF: 14.3/19

Left Out: 0.036+/-0.077 $\chi^2$/NDF:29.7/24

Right Out: 0.018+/-0.036 $\chi^2$/NDF: 29.5/25

Left In: 0.078+/-0.076 $\chi^2$/NDF:24.1/22

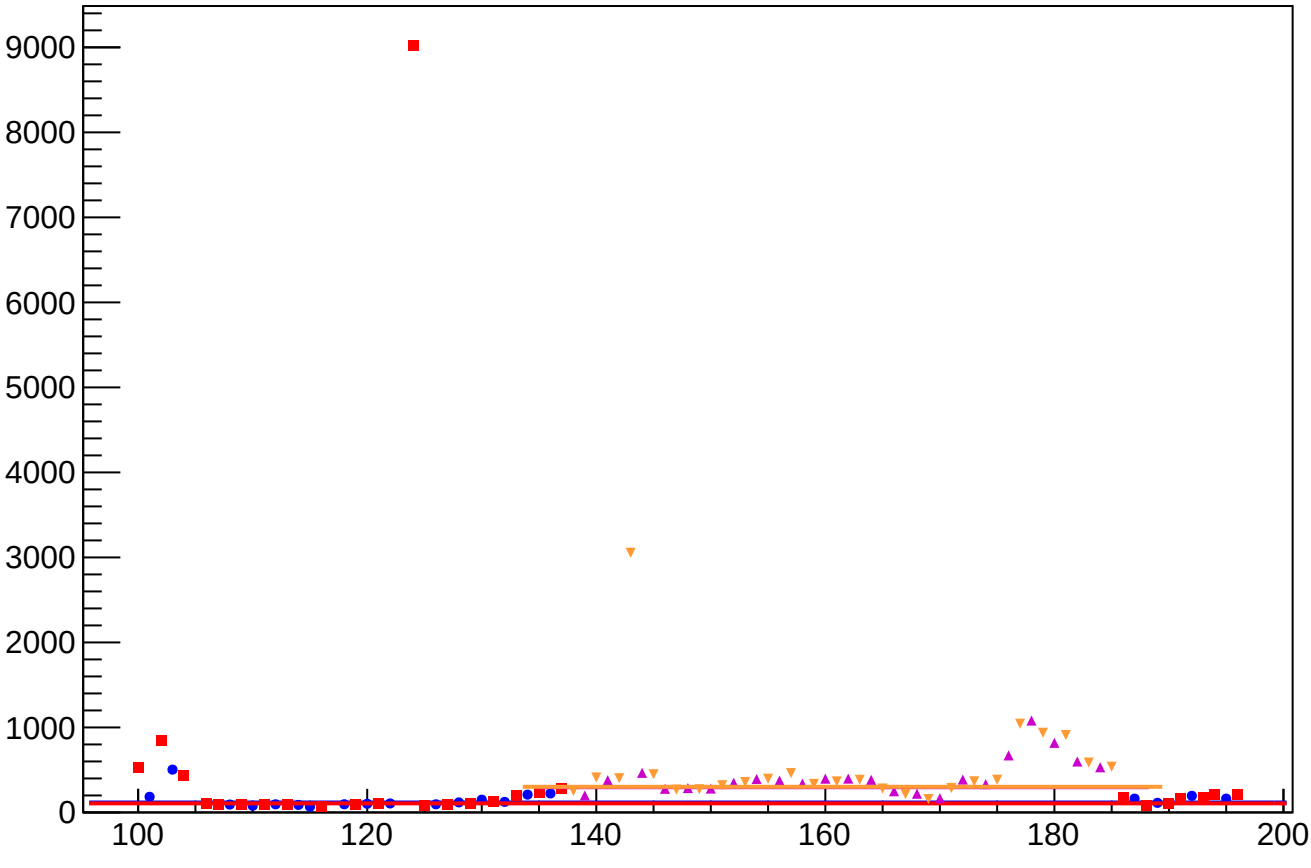
Left: 0.057+/-0.054 $\chi^2$/NDF: 53.9/47

Right: 0.039+/-0.027 $\chi^2$/NDF: 44.5/45

In: 0.068+/-0.036 $\chi^2$/NDF:38.4/42

Out: 0.022+/-0.032 $\chi^2$/NDF:59.2/50

All: 0.042+/-0.024 $\chi^2$/NDF: 98.5/93




Right In: 117.041+/-0.029 $\chi^2$/NDF: 2430019.3/19

Left Out: 301.735+/-0.054 $\chi^2$/NDF:6693517.2/24

Right Out: 106.807+/-0.025 $\chi^2$/NDF: 4071129.6/25

Left In: 296.875+/-0.054 $\chi^2$/NDF:4917907.0/22

Left: 299.267+/-0.038 $\chi^2$/NDF: 11615477.5/47

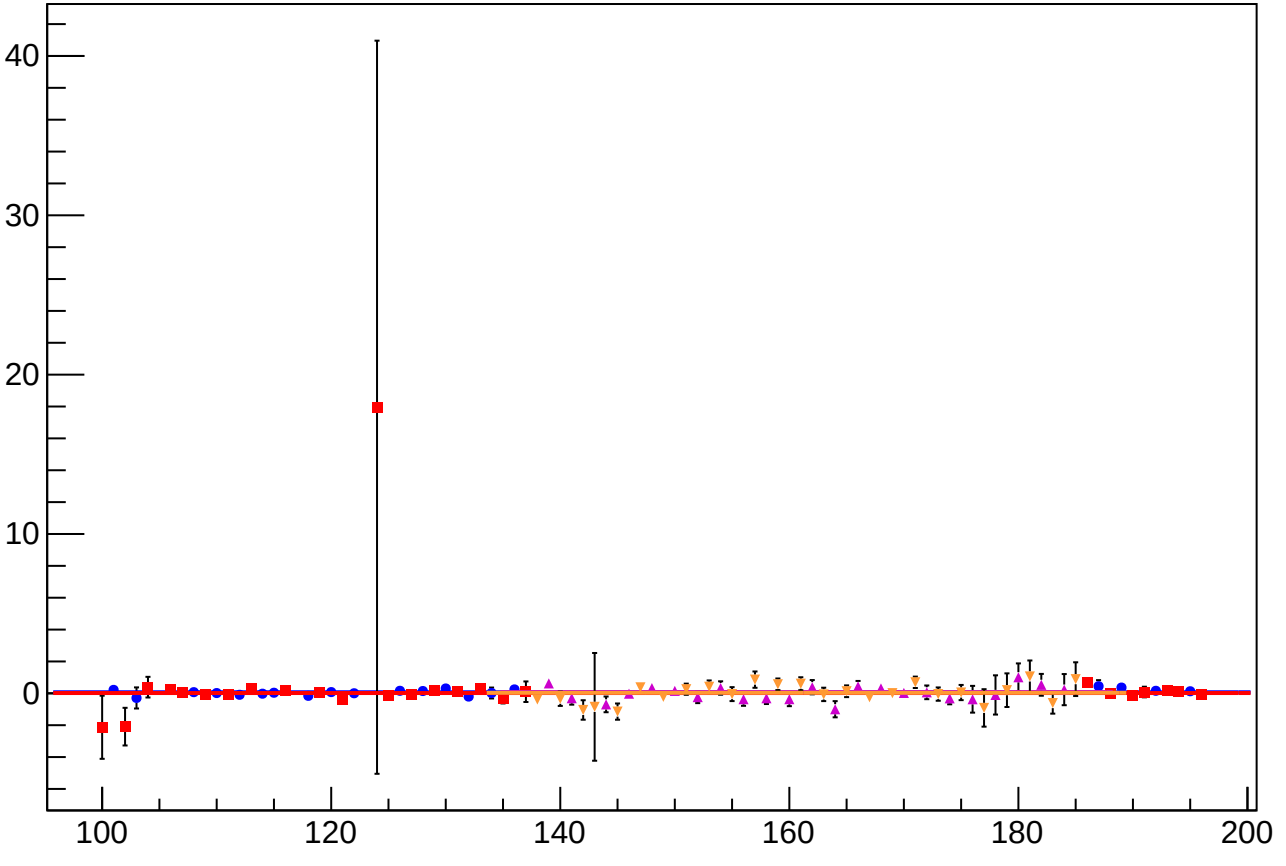
Right: 111.173+/-0.019 $\chi^2$/NDF: 6571784.2/45

In: 158.158+/-0.026 $\chi^2$/NDF:16045590.2/42

Out: 141.138+/-0.023 $\chi^2$/NDF:21343079.2/50

All: 148.675+/-0.017 $\chi^2$/NDF: 37634776.3/93

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.066+/-0.041 $\chi^2$/NDF: 14.3/19

Left Out: 0.036+/-0.077 $\chi^2$/NDF:29.7/24

Right Out: 0.018+/-0.036 $\chi^2$/NDF: 29.5/25

Left In: 0.078+/-0.076 $\chi^2$/NDF:24.1/22

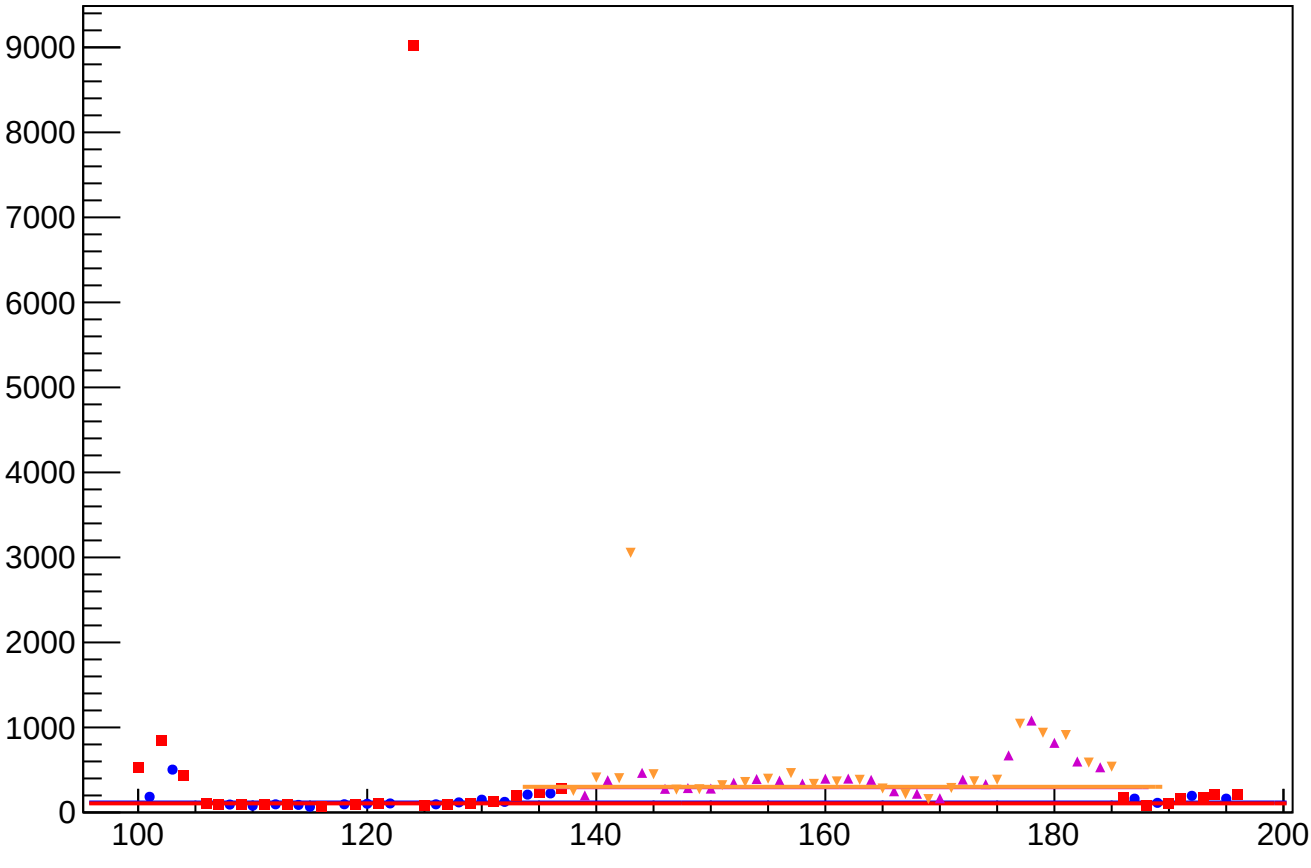
Left: 0.057+/-0.054 $\chi^2$/NDF: 53.9/47

Right: 0.039+/-0.027 $\chi^2$/NDF: 44.5/45

In: 0.068+/-0.036 $\chi^2$/NDF:38.4/42

Out: 0.022+/-0.032 $\chi^2$/NDF:59.2/50

All: 0.042+/-0.024 $\chi^2$/NDF: 98.5/93




Right In: 117.041+/-0.029 $\chi^2$/NDF: 2430019.3/19

Left Out: 301.735+/-0.054 $\chi^2$/NDF:6693517.2/24

Right Out: 106.807+/-0.025 $\chi^2$/NDF: 4071129.6/25

Left In: 296.875+/-0.054 $\chi^2$/NDF:4917907.0/22

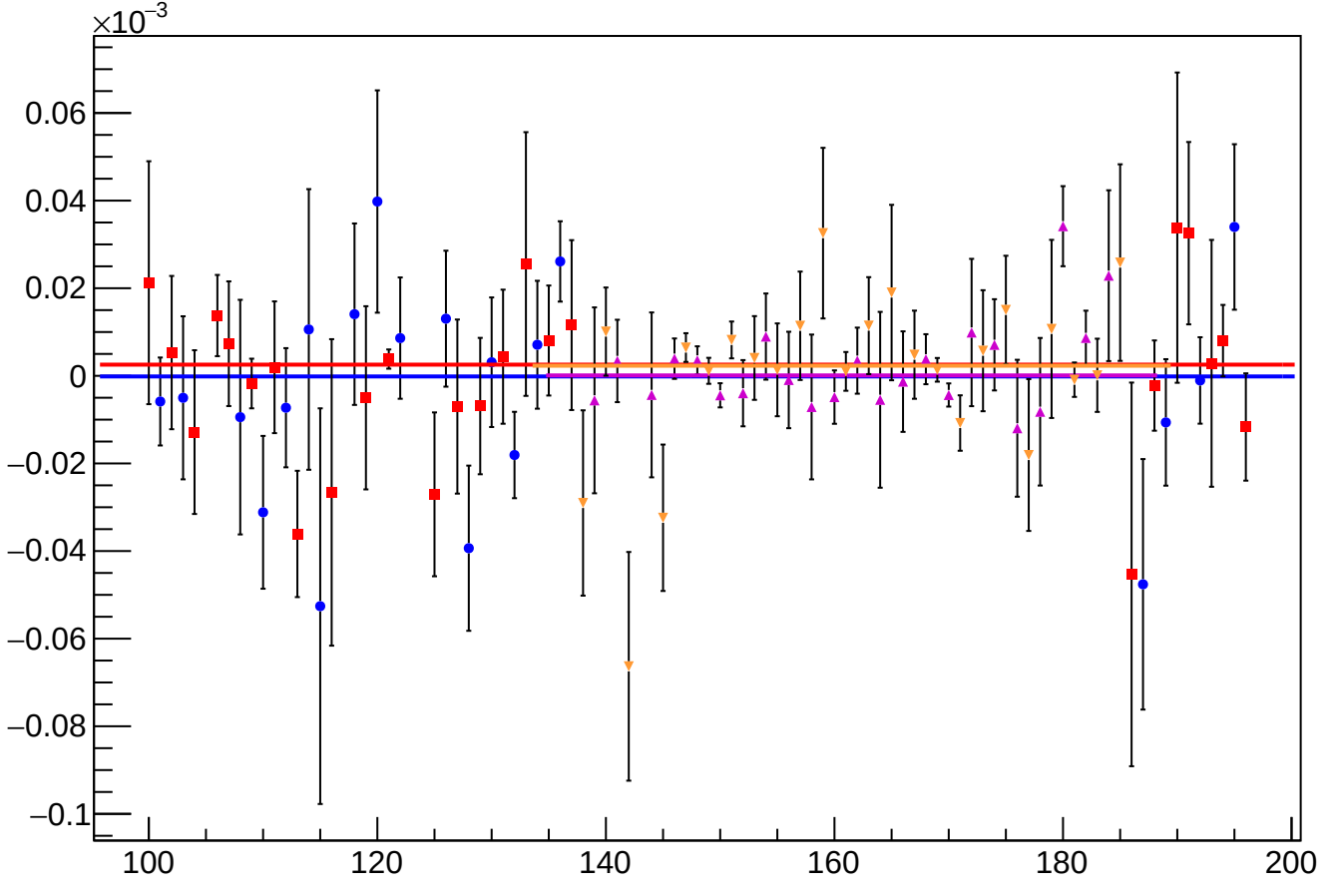
Left: 299.267+/-0.038 $\chi^2$/NDF: 11615477.5/47

Right: 111.173+/-0.019 $\chi^2$/NDF: 6571784.2/45

In: 158.158+/-0.026 $\chi^2$/NDF:16045590.2/42

Out: 141.138+/-0.023 $\chi^2$/NDF:21343079.2/50

All: 148.675+/-0.017 $\chi^2$/NDF: 37634776.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 32.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.8/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.1/22

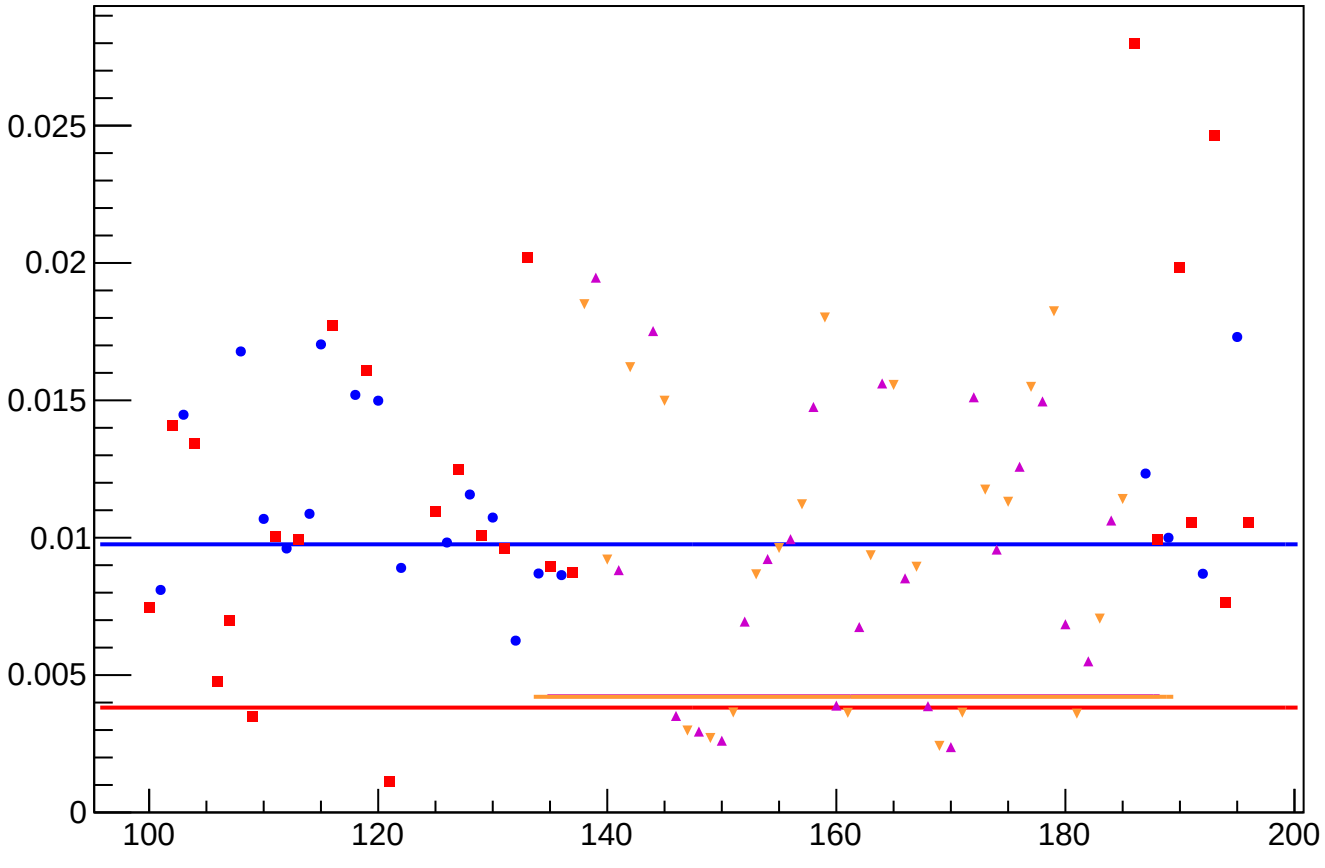
Left: 0.000+/-0.000 $\chi^2$/NDF: 61.8/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 54.5/44

In: 0.000+/-0.000 $\chi^2$/NDF:61.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:53.0/48

All: 0.000+/-0.000 $\chi^2$/NDF: 116.5/91




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1291382.0/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:12078055.5/23

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 12531230.9/24

Left In: 0.004+/-0.000 $\chi^2$/NDF:11034220.9/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 23112509.3/46

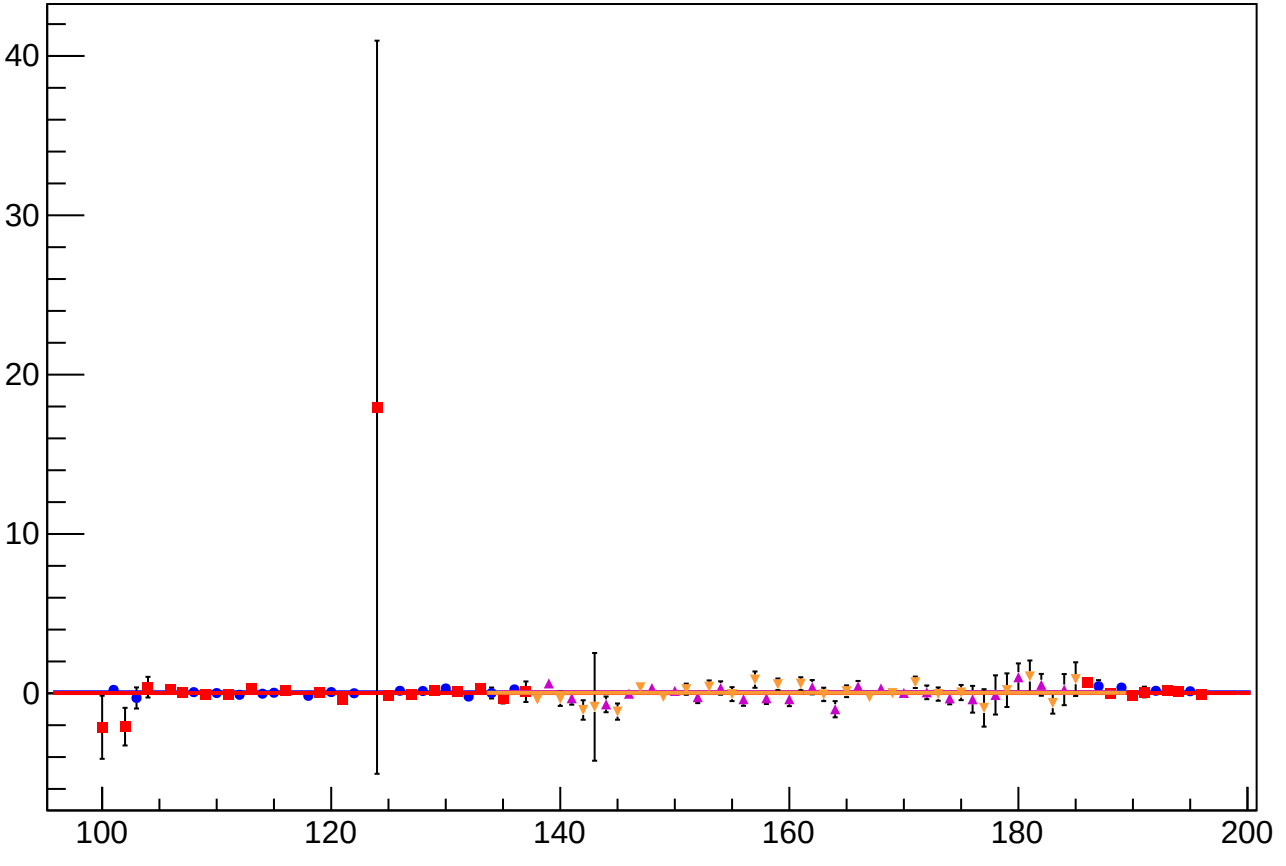
Right: 0.005+/-0.000 $\chi^2$/NDF: 18875359.4/44

In: 0.005+/-0.000 $\chi^2$/NDF:17177560.4/42

Out: 0.004+/-0.000 $\chi^2$/NDF:24677328.2/48

All: 0.004+/-0.000 $\chi^2$/NDF: 42465969.8/91

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.066+/-0.041 $\chi^2$/NDF: 14.3/19

Left Out: 0.036+/-0.077 $\chi^2$/NDF:29.7/24

Right Out: 0.019+/-0.036 $\chi^2$/NDF: 29.5/25

Left In: 0.078+/-0.076 $\chi^2$/NDF:24.1/22

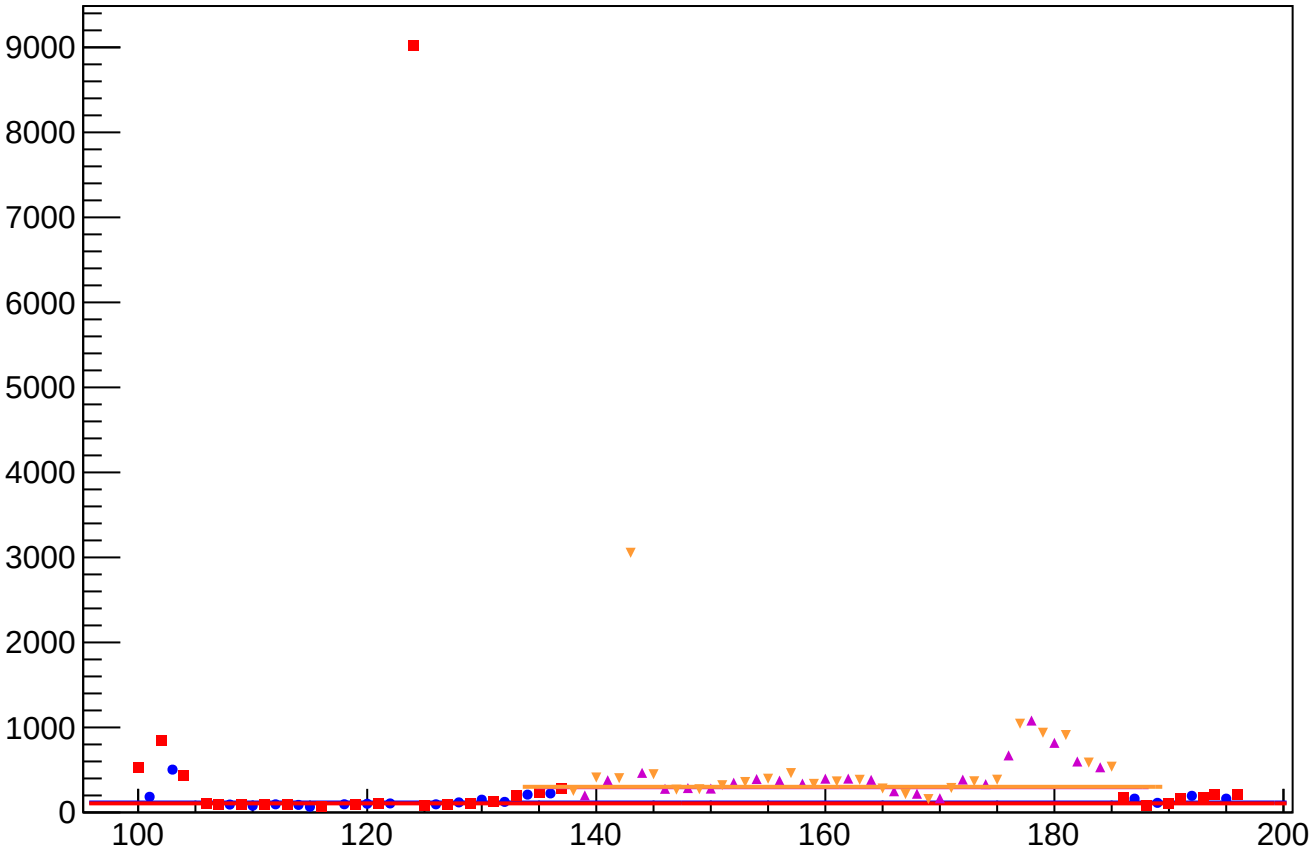
Left: 0.057+/-0.054 $\chi^2$/NDF: 53.9/47

Right: 0.039+/-0.027 $\chi^2$/NDF: 44.5/45

In: 0.068+/-0.036 $\chi^2$/NDF:38.4/42

Out: 0.022+/-0.032 $\chi^2$/NDF:59.2/50

All: 0.042+/-0.024 $\chi^2$/NDF: 98.5/93




Right In: 117.041+/-0.029 $\chi^2$/NDF: 2429954.4/19

Left Out: 301.737+/-0.054 $\chi^2$/NDF:6693577.7/24

Right Out: 106.807+/-0.025 $\chi^2$/NDF: 4070981.1/25

Left In: 296.878+/-0.054 $\chi^2$/NDF:4917864.1/22

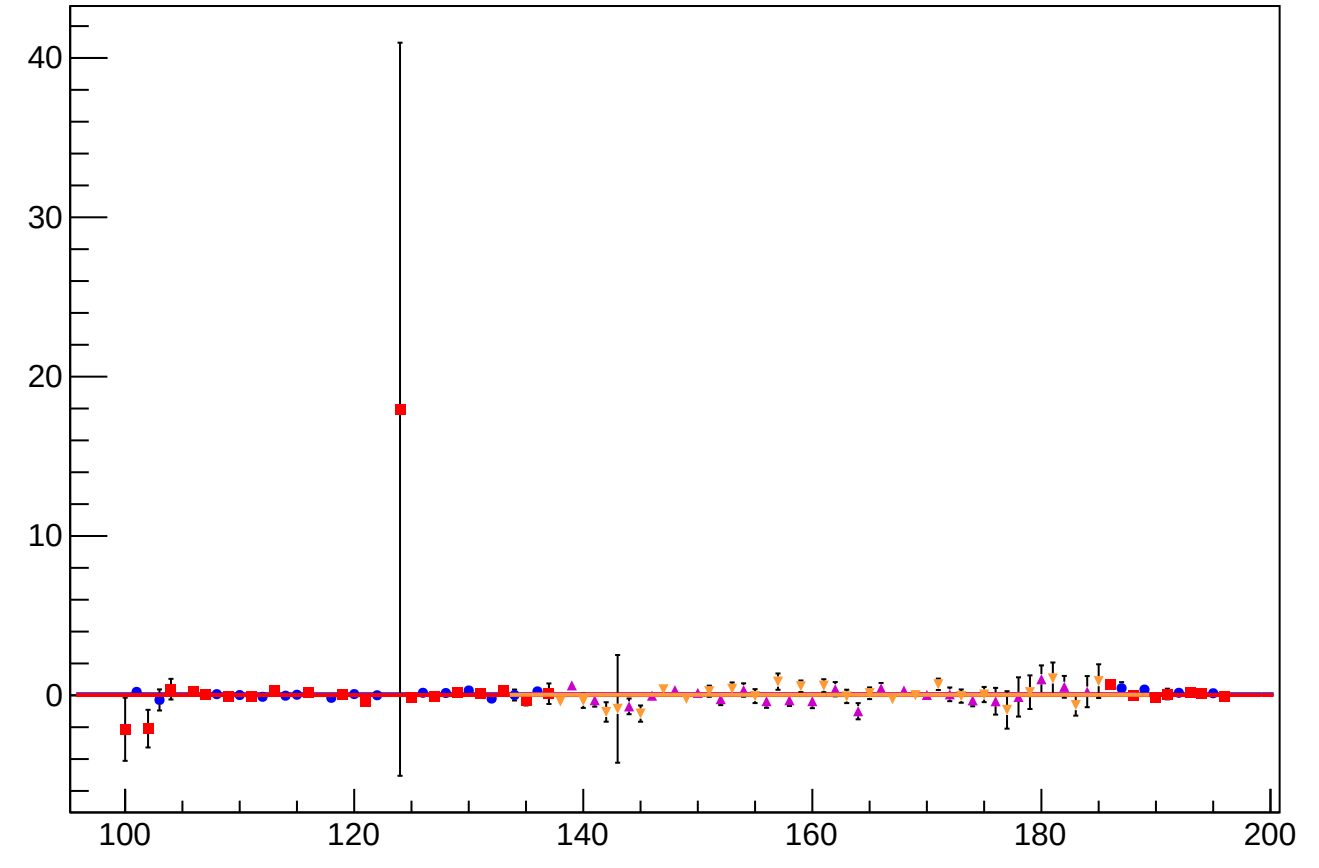
Left: 299.269+/-0.038 $\chi^2$/NDF: 11615492.5/47

Right: 111.174+/-0.019 $\chi^2$/NDF: 6571564.9/45

In: 158.158+/-0.026 $\chi^2$/NDF:16045626.5/42

Out: 141.139+/-0.023 $\chi^2$/NDF:21342985.5/50

All: 148.676+/-0.017 $\chi^2$/NDF: 37634710.9/93




Right In: 0.066+/-0.041 $\chi^2$/NDF: 14.3/19

Left Out: 0.036+/-0.077 $\chi^2$/NDF:29.7/24

Right Out: 0.019+/-0.036 $\chi^2$/NDF: 29.5/25

Left In: 0.078+/-0.076 $\chi^2$/NDF:24.1/22

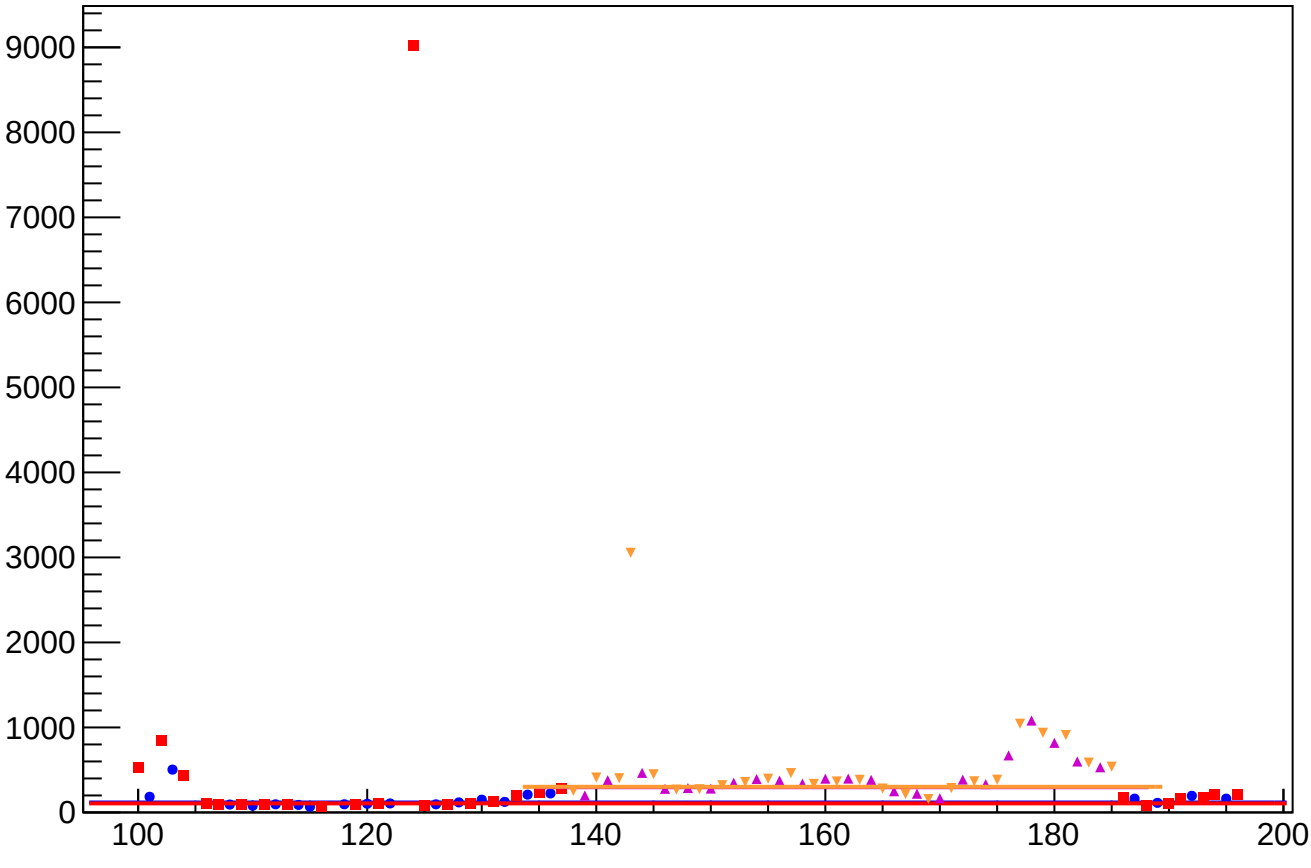
Left: 0.057+/-0.054 $\chi^2$/NDF: 53.9/47

Right: 0.039+/-0.027 $\chi^2$/NDF: 44.5/45

In: 0.068+/-0.036 $\chi^2$/NDF:38.4/42

Out: 0.022+/-0.032 $\chi^2$/NDF:59.2/50

All: 0.042+/-0.024 $\chi^2$/NDF: 98.5/93




Right In: 117.041+/-0.029 $\chi^2$/NDF: 2429954.4/19

Left Out: 301.737+/-0.054 $\chi^2$/NDF:6693577.7/24

Right Out: 106.807+/-0.025 $\chi^2$/NDF: 4070981.1/25

Left In: 296.878+/-0.054 $\chi^2$/NDF:4917864.1/22

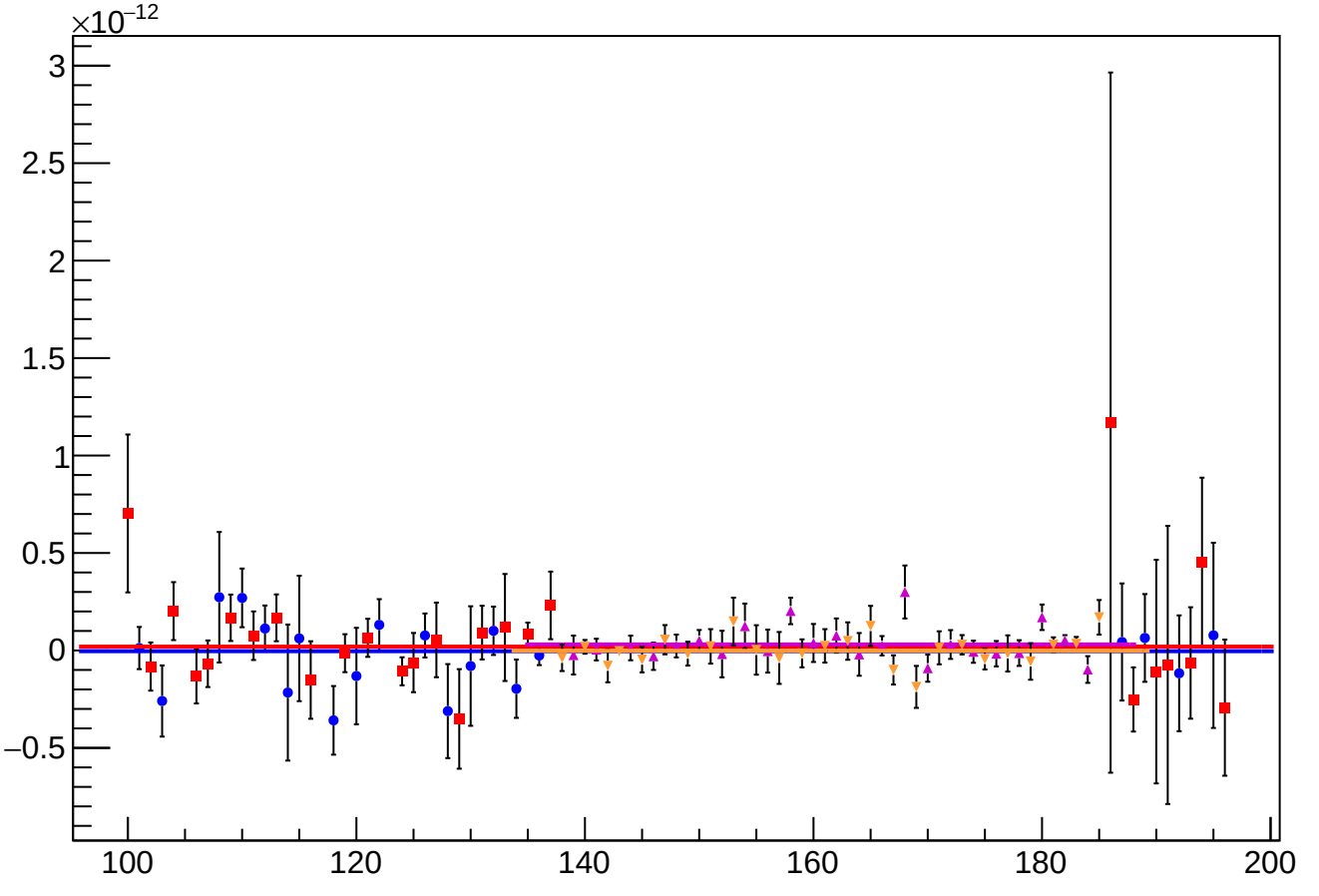
Left: 299.269+/-0.038 $\chi^2$/NDF: 11615492.5/47

Right: 111.174+/-0.019 $\chi^2$/NDF: 6571564.9/45

In: 158.158+/-0.026 $\chi^2$/NDF:16045626.5/42

Out: 141.139+/-0.023 $\chi^2$/NDF:21342985.5/50

All: 148.676+/-0.017 $\chi^2$/NDF: 37634710.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:17.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.4/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 49.3/47

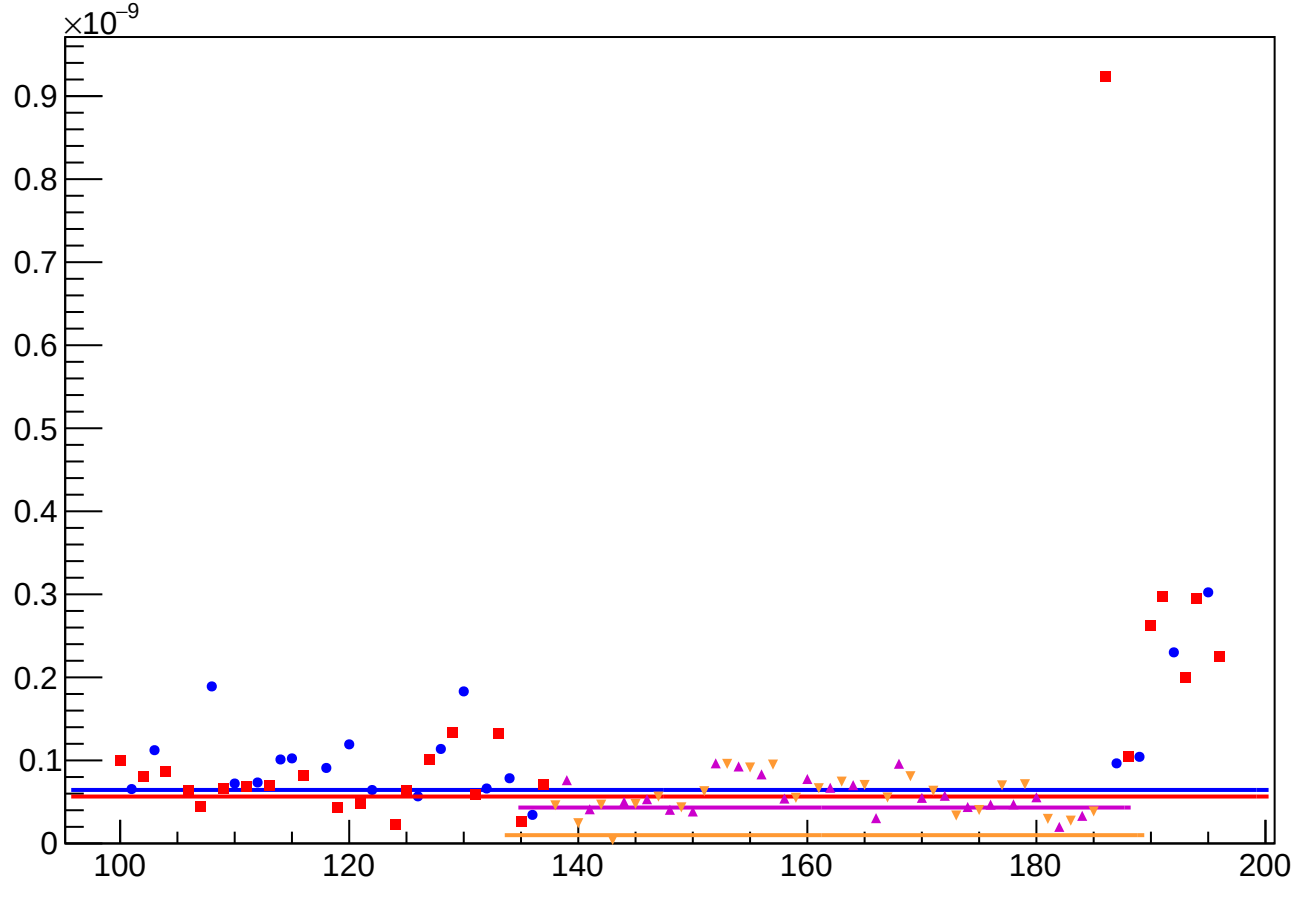
Right: 0.000+/-0.000 $\chi^2$/NDF: 42.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:45.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:43.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 92.4/93

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2988858.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18523402.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4443137.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:4049081.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 33507700.8/47

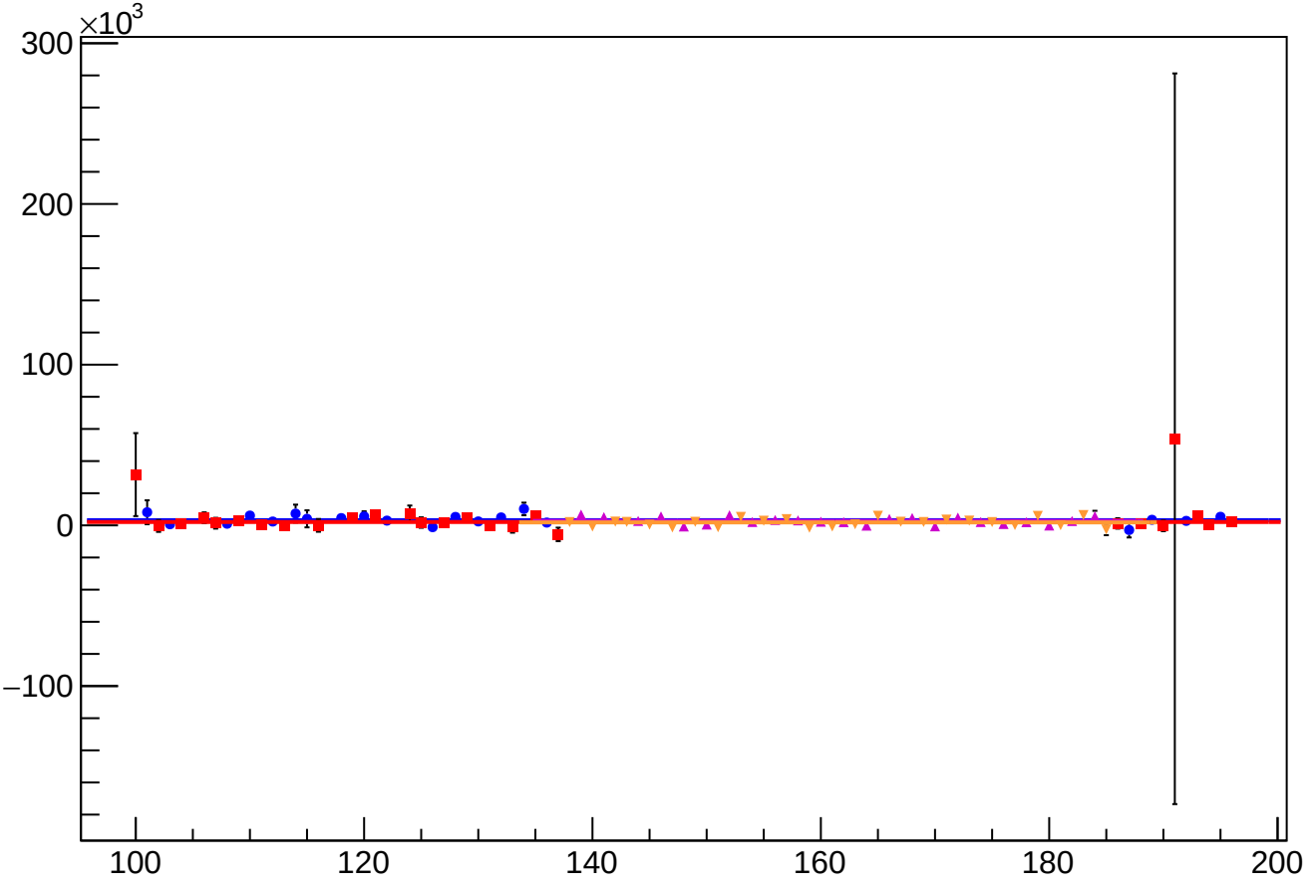
Right: 0.000+/-0.000 $\chi^2$/NDF: 7507503.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:7826737.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:28885097.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 50631384.6/93

# reg_asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3235.308+/-629.470 $\chi^2$/NDF: 14.4/19

Left Out: 1851.999+/-420.006 $\chi^2$/NDF:31.5/24

Right Out: 2095.407+/-575.397 $\chi^2$/NDF: 20.8/25

Left In: 2775.769+/-430.870 $\chi^2$/NDF:25.4/22

Left: 2302.092+/-300.757 $\chi^2$/NDF: 59.3/47

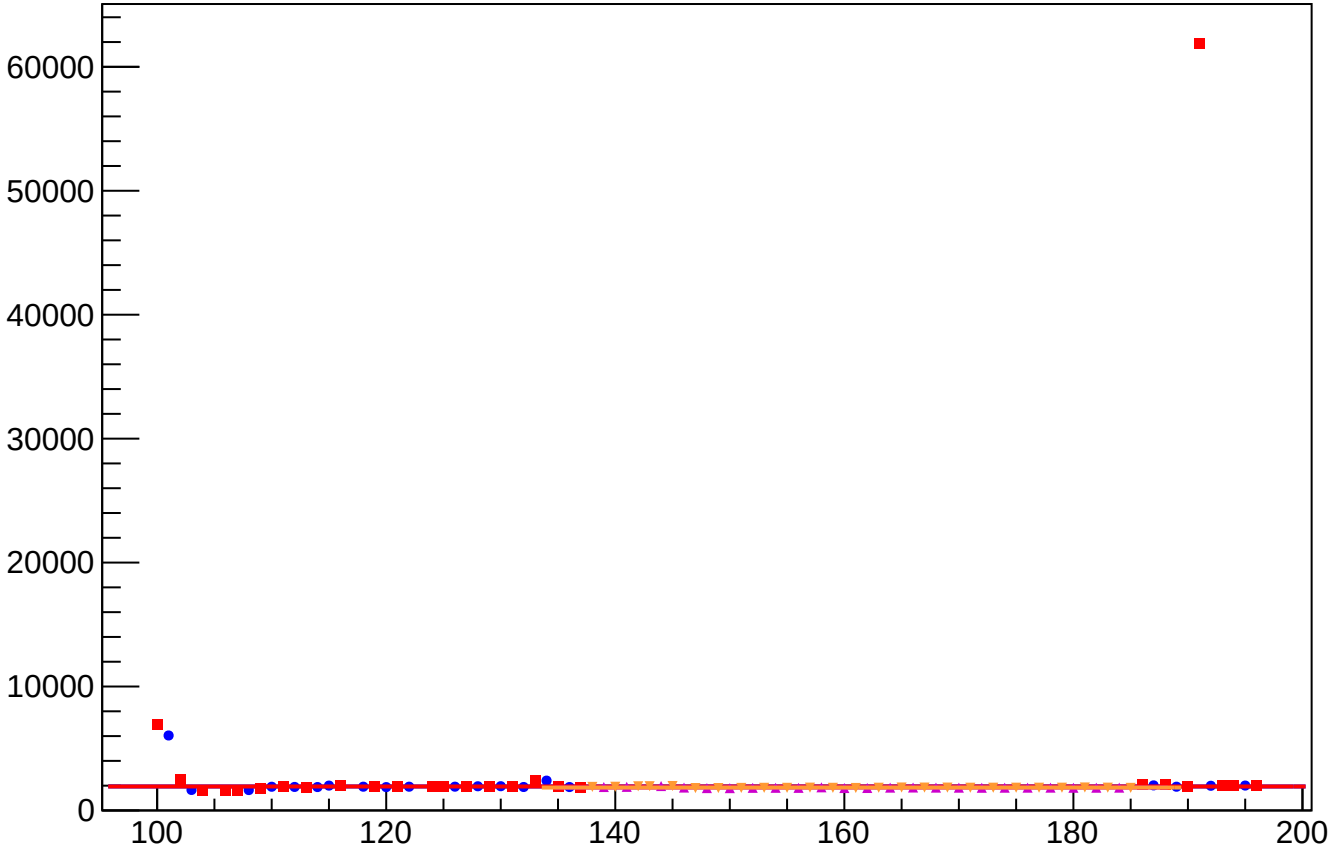
Right: 2614.303+/-424.700 $\chi^2$/NDF: 37.0/45

In: 2922.384+/-355.553 $\chi^2$/NDF:40.2/42

Out: 1936.609+/-339.243 $\chi^2$/NDF:52.4/50

All: 2406.369+/-245.444 $\chi^2$/NDF: 96.7/93

# reg_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1936.067+/-0.445 $\chi^2$/NDF: 702898.3/19

Left Out: 1848.522+/-0.297 $\chi^2$/NDF:20886.6/24

Right Out: 1934.999+/-0.406 $\chi^2$/NDF: 400939.8/25

Left In: 1845.061+/-0.305 $\chi^2$/NDF:14026.0/22

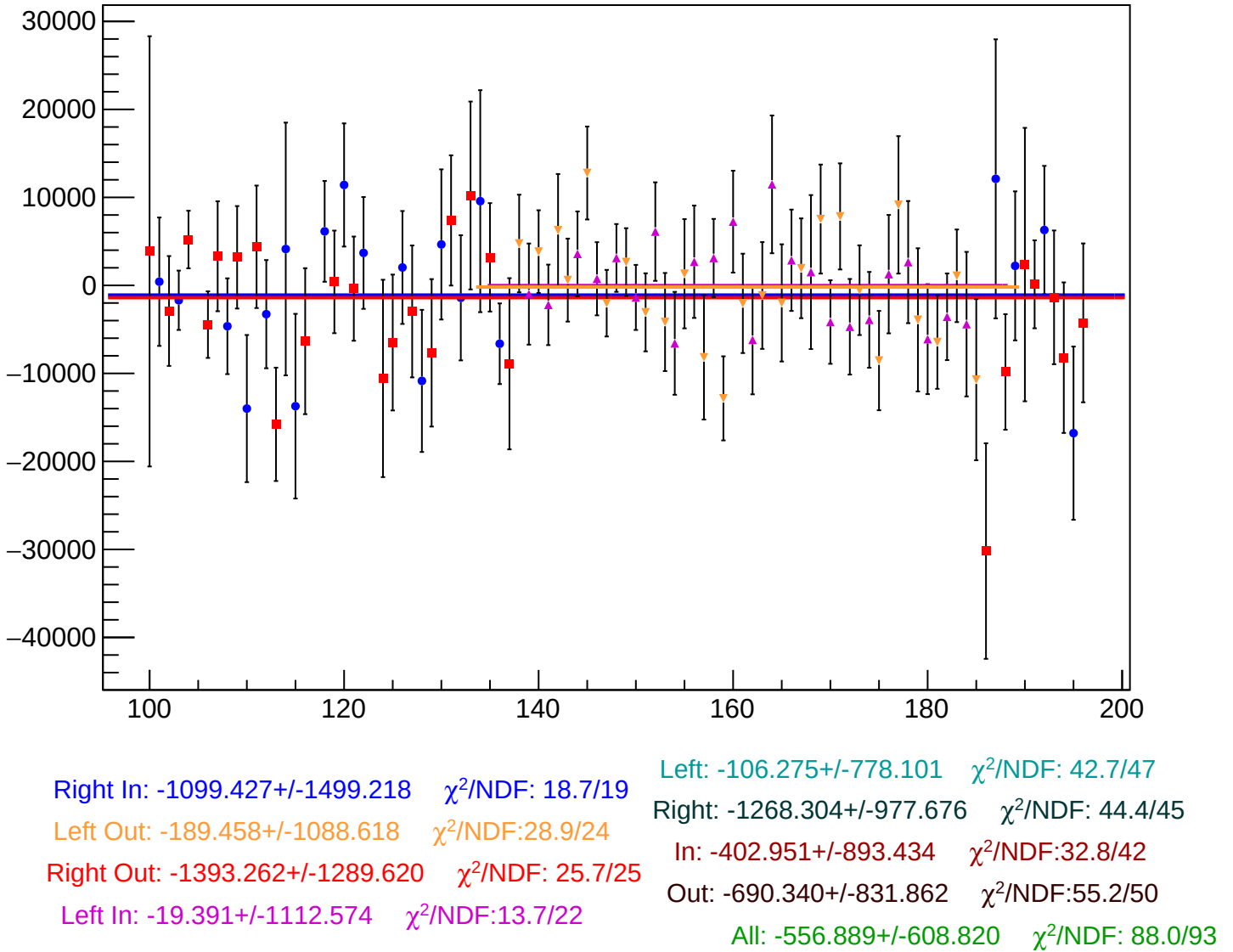
Left: 1846.835+/-0.213 $\chi^2$/NDF: 34978.8/47

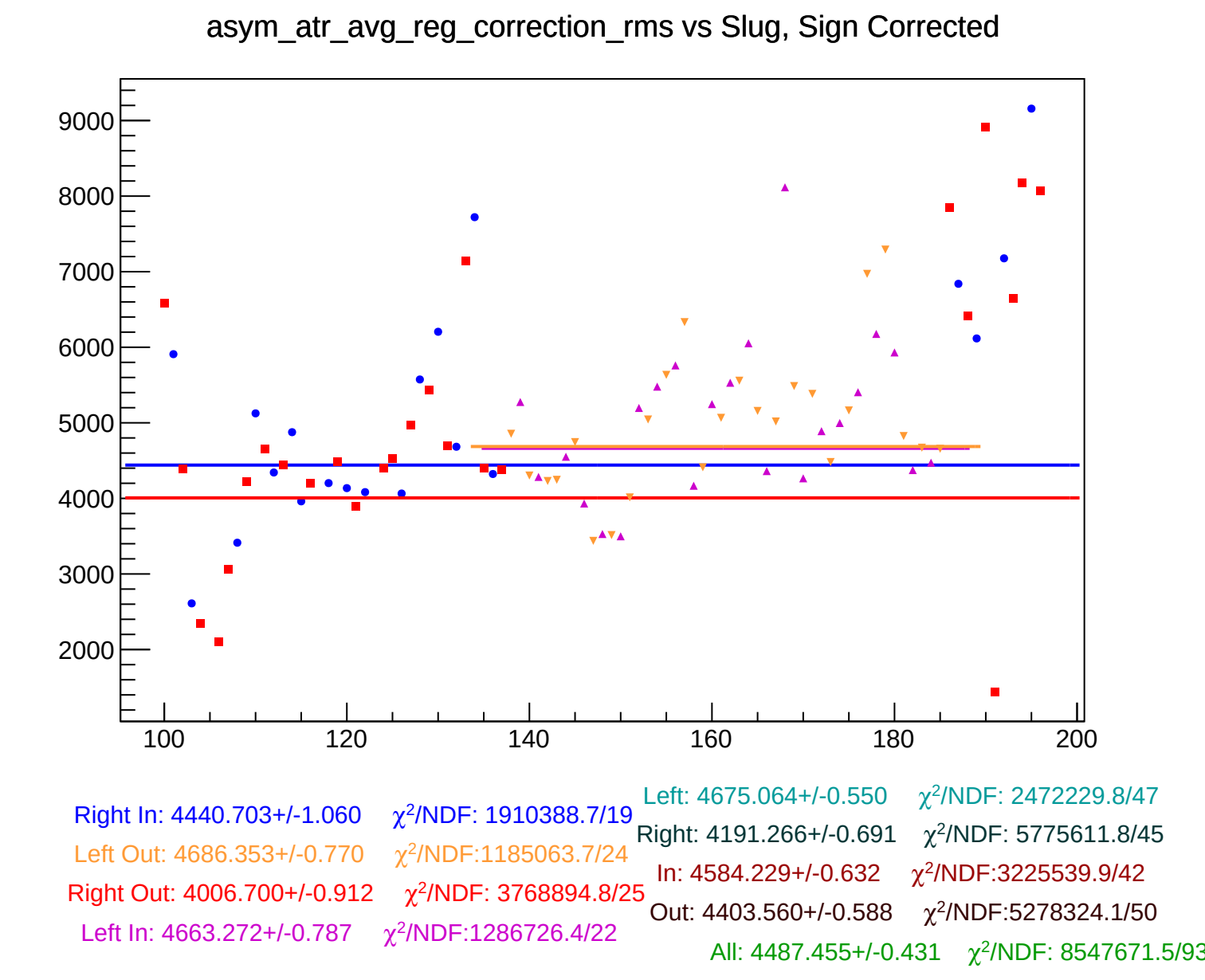
Right: 1935.484+/-0.300 $\chi^2$/NDF: 1103841.2/45

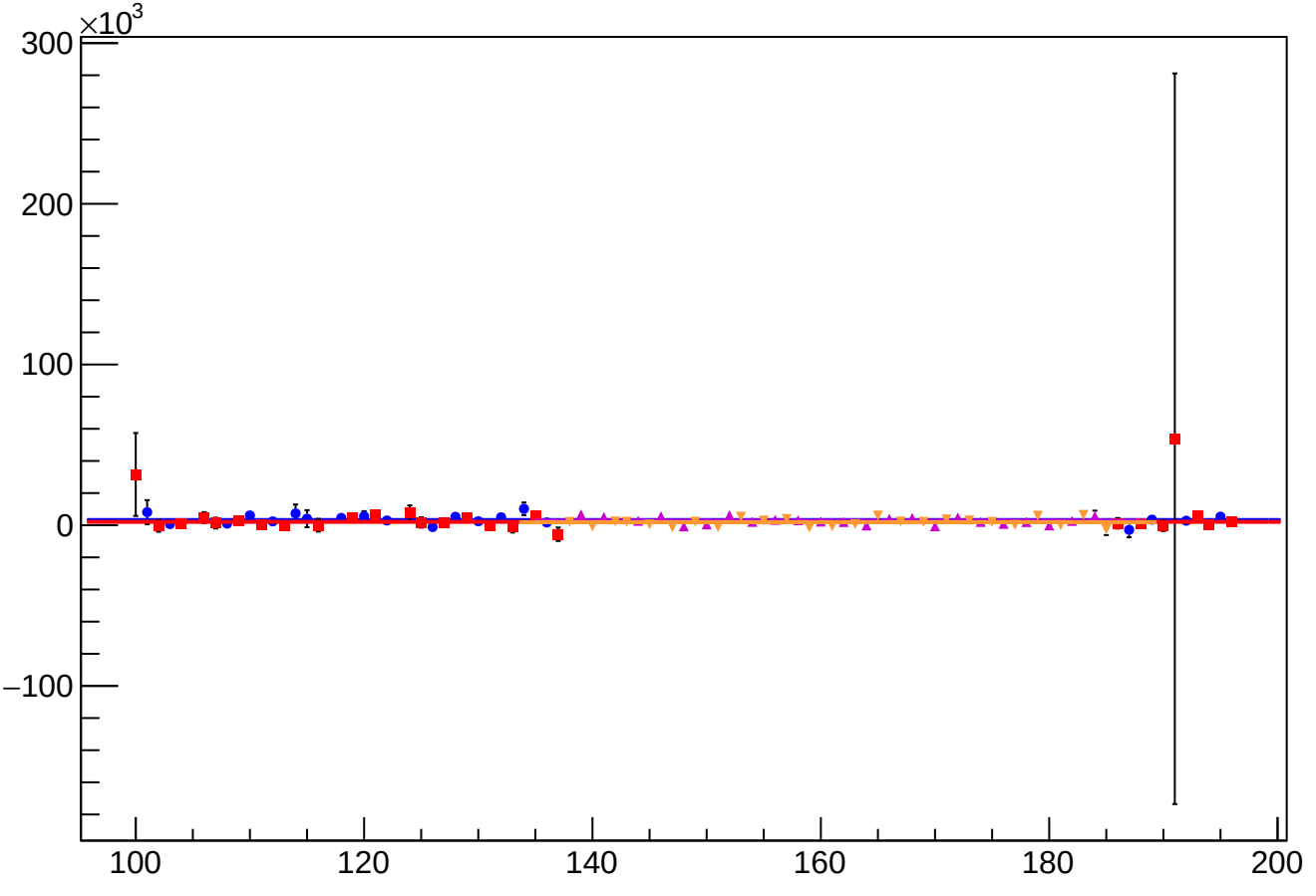
In: 1874.096+/-0.251 $\chi^2$/NDF:745390.8/42

Out: 1878.671+/-0.240 $\chi^2$/NDF:451385.6/50

All: 1876.493+/-0.173 $\chi^2$/NDF: 1196949.9/93


asym_atr_avg_reg_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -1099.427+/-1499.218 χ²/NDF: 18.7/19
Left Out: -189.458+/-1088.618 χ²/NDF:28.9/24
Right Out: -1393.262+/-1289.620 χ²/NDF: 25.7/25
Left In: -19.391+/-1112.574 χ²/NDF:13.7/22
Left: -106.275+/-778.101 χ²/NDF: 42.7/47
Right: -1268.304+/-977.676 χ²/NDF: 44.4/45
In: -402.951+/-893.434 χ²/NDF:32.8/42
Out: -690.340+/-831.862 χ²/NDF:55.2/50
All: -556.889+/-608.820 χ²/NDF: 88.0/93


asym_atr_avg_reg_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 4440.703+/-1.060 χ²/NDF: 1910388.7/19
Left Out: 4686.353+/-0.770 χ²/NDF:1185063.7/24
Right Out: 4006.700+/-0.912 χ²/NDF: 3768894.8/25
Left In: 4663.272+/-0.787 χ²/NDF:1286726.4/22
Left: 4675.064+/-0.550 χ²/NDF: 2472229.8/47
Right: 4191.266+/-0.691 χ²/NDF: 5775611.8/45
In: 4584.229+/-0.632 χ²/NDF:3225539.9/42
Out: 4403.560+/-0.588 χ²/NDF:5278324.1/50
All: 4487.455+/-0.431 χ²/NDF: 8547671.5/93




Right In: 3234.839+/-629.470 $\chi^2$/NDF: 14.4/19

Left Out: 1851.888+/-420.006 $\chi^2$/NDF:31.5/24

Right Out: 2096.113+/-575.400 $\chi^2$/NDF: 20.8/25

Left In: 2775.745+/-430.870 $\chi^2$/NDF:25.4/22

Left: 2302.023+/-300.757 $\chi^2$/NDF: 59.3/47

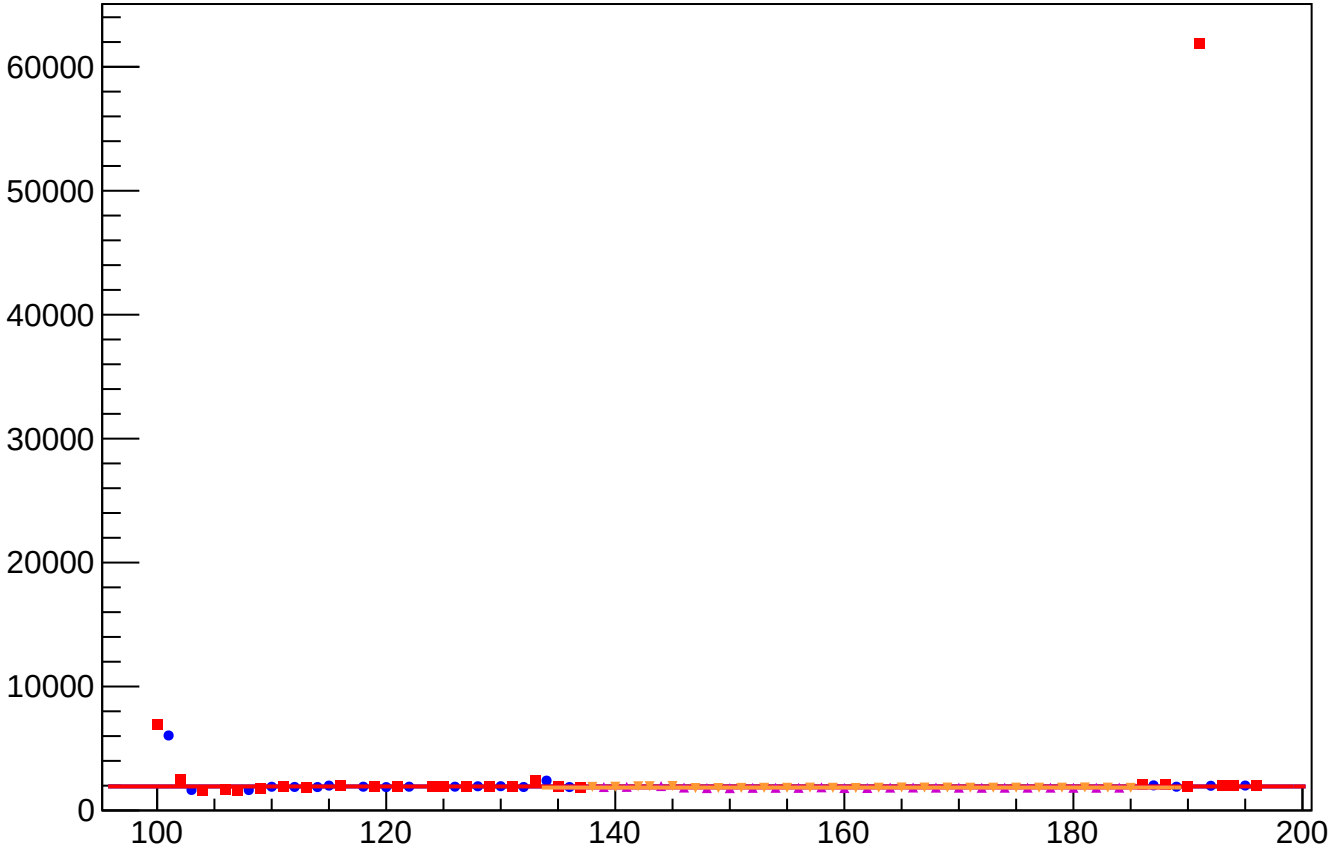
Right: 2614.476+/-424.700 $\chi^2$/NDF: 37.0/45

In: 2922.219+/-355.553 $\chi^2$/NDF:40.2/42

Out: 1936.782+/-339.243 $\chi^2$/NDF:52.4/50

All: 2406.381+/-245.445 $\chi^2$/NDF: 96.7/93

# cor_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1936.067+/-0.445 $\chi^2$/NDF: 702897.4/19

Left Out: 1848.522+/-0.297 $\chi^2$/NDF:20886.6/24

Right Out: 1937.722+/-0.406 $\chi^2$/NDF: 393055.4/25

Left In: 1845.061+/-0.305 $\chi^2$/NDF:14026.0/22

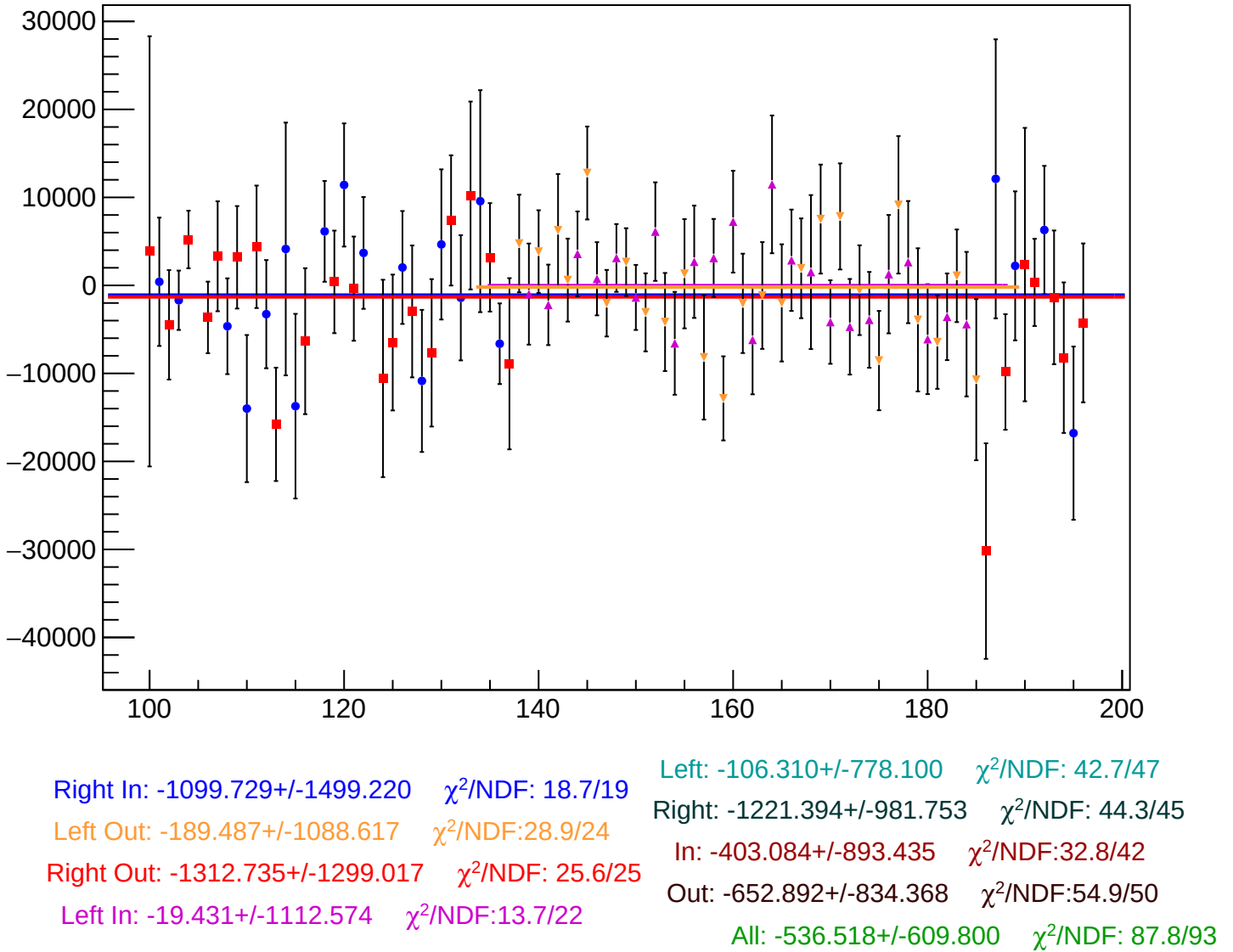
Left: 1846.835+/-0.213 $\chi^2$/NDF: 34978.8/47

Right: 1936.969+/-0.300 $\chi^2$/NDF: 1095960.4/45

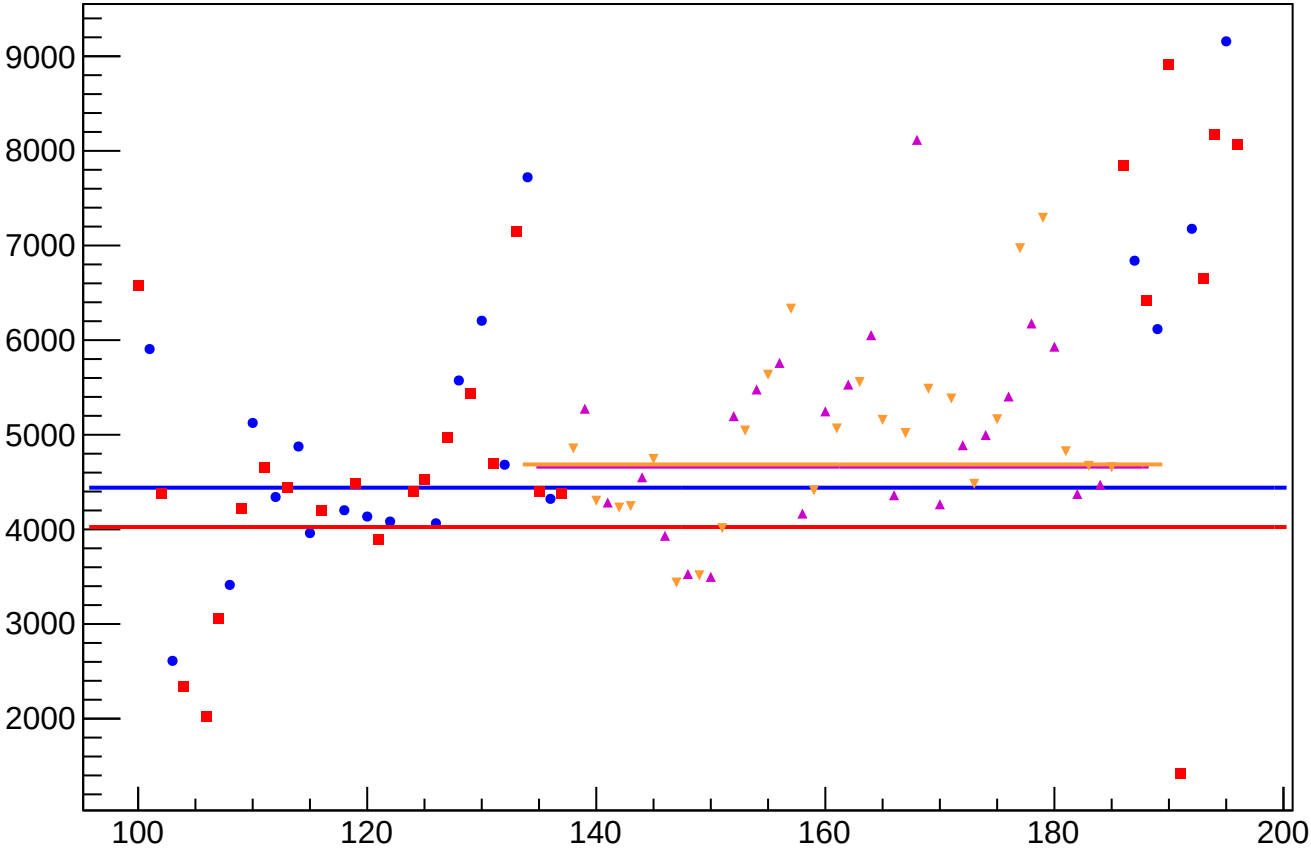
In: 1874.096+/-0.251 $\chi^2$/NDF:745390.1/42

Out: 1879.570+/-0.240 $\chi^2$/NDF:445341.5/50

All: 1876.963+/-0.174 $\chi^2$/NDF: 1190979.8/93


asym_atr_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -1099.729+/-1499.220 χ²/NDF: 18.7/19
Left Out: -189.487+/-1088.617 χ²/NDF:28.9/24
Right Out: -1312.735+/-1299.017 χ²/NDF: 25.6/25
Left In: -19.431+/-1112.574 χ²/NDF:13.7/22
Left: -106.310+/-778.100 χ²/NDF: 42.7/47
Right: -1221.394+/-981.753 χ²/NDF: 44.3/45
In: -403.084+/-893.435 χ²/NDF:32.8/42
Out: -652.892+/-834.368 χ²/NDF:54.9/50
All: -536.518+/-609.800 χ²/NDF: 87.8/93

# asym_atr_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 4440.787+/-1.060 $\chi^2$/NDF: 1909842.1/19

Left Out: 4686.346+/-0.770 $\chi^2$/NDF:1185089.0/24

Right Out: 4025.088+/-0.919 $\chi^2$/NDF: 3748830.1/25

Left In: 4663.273+/-0.787 $\chi^2$/NDF:1286722.8/22

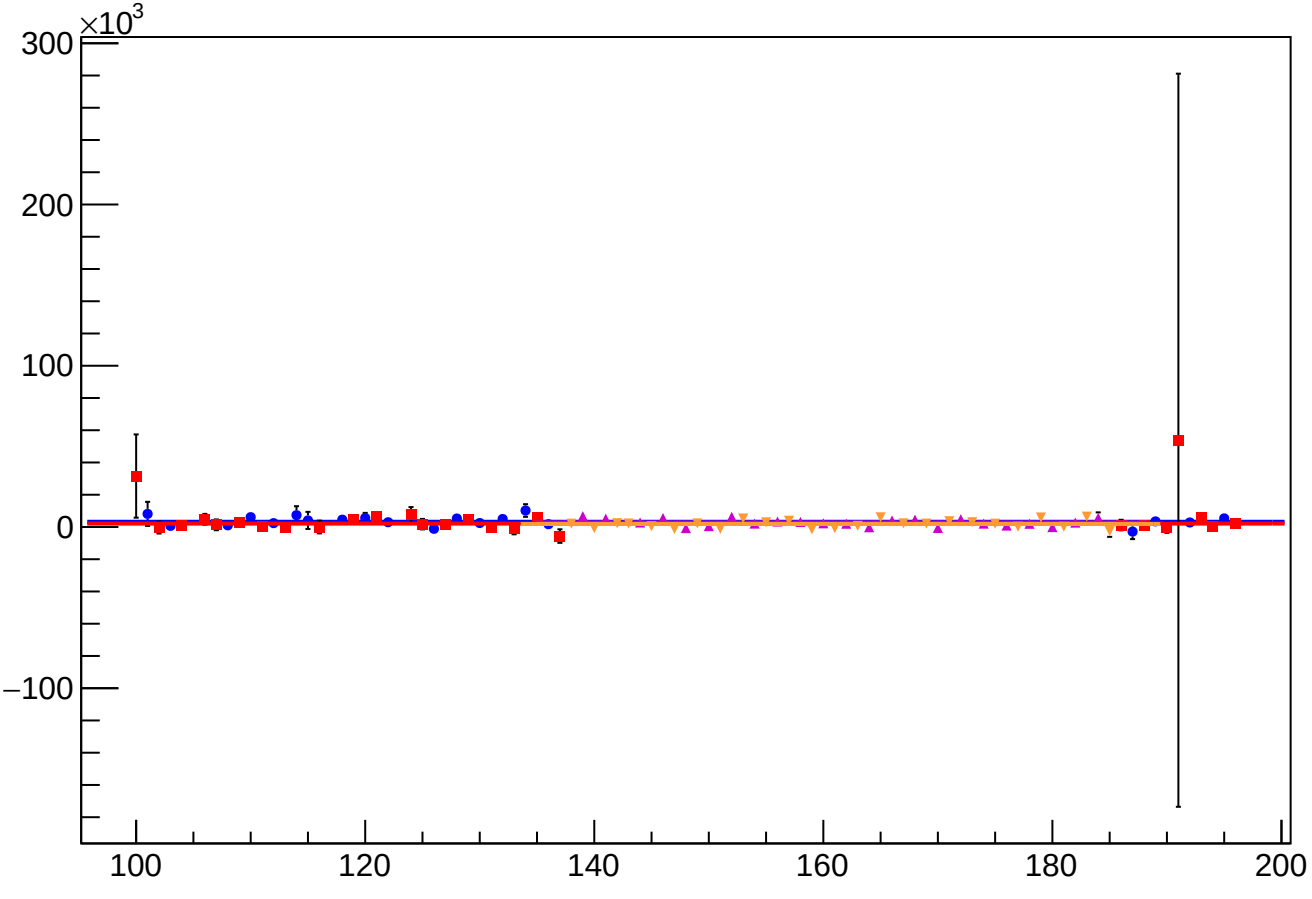
Left: 4675.061+/-0.550 $\chi^2$/NDF: 2472251.2/47

Right: 4203.346+/-0.694 $\chi^2$/NDF: 5746500.2/45

In: 4584.260+/-0.632 $\chi^2$/NDF:3224968.6/42

Out: 4413.537+/-0.590 $\chi^2$/NDF:5238364.2/50

All: 4493.069+/-0.431 $\chi^2$/NDF: 8502340.4/93




Right In: 3234.839+/-629.470 $\chi^2$/NDF: 14.4/19

Left Out: 1851.888+/-420.006 $\chi^2$/NDF:31.5/24

Right Out: 2096.113+/-575.400 $\chi^2$/NDF: 20.8/25

Left In: 2775.745+/-430.870 $\chi^2$/NDF:25.4/22

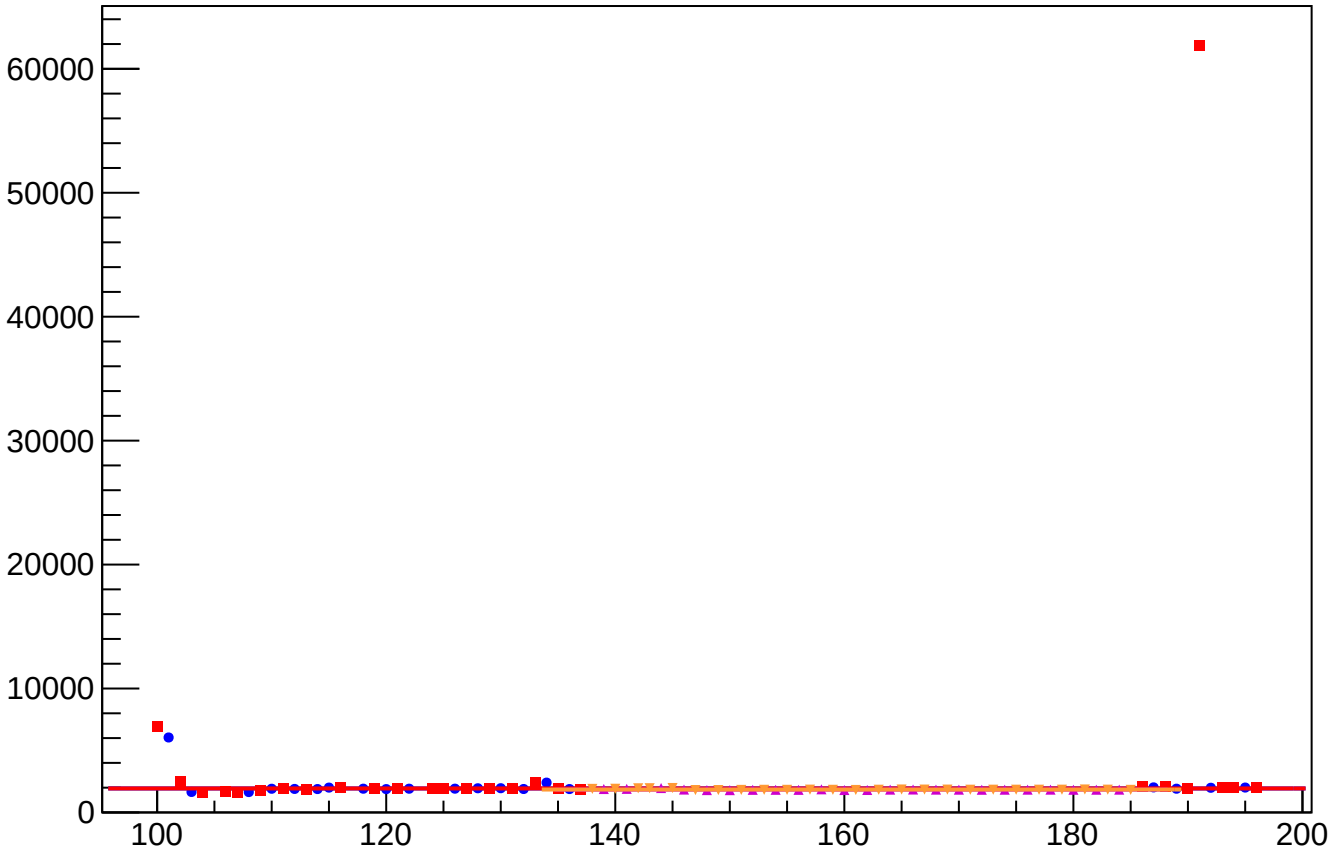
Left: 2302.023+/-300.757 $\chi^2$/NDF: 59.3/47

Right: 2614.476+/-424.700 $\chi^2$/NDF: 37.0/45

In: 2922.219+/-355.553 $\chi^2$/NDF:40.2/42

Out: 1936.782+/-339.243 $\chi^2$/NDF:52.4/50

All: 2406.381+/-245.445 $\chi^2$/NDF: 96.7/93




Right In: 1936.067+/-0.445 $\chi^2$/NDF: 702897.4/19

Left Out: 1848.522+/-0.297 $\chi^2$/NDF:20886.6/24

Right Out: 1937.722+/-0.406 $\chi^2$/NDF: 393055.4/25

Left In: 1845.061+/-0.305 $\chi^2$/NDF:14026.0/22

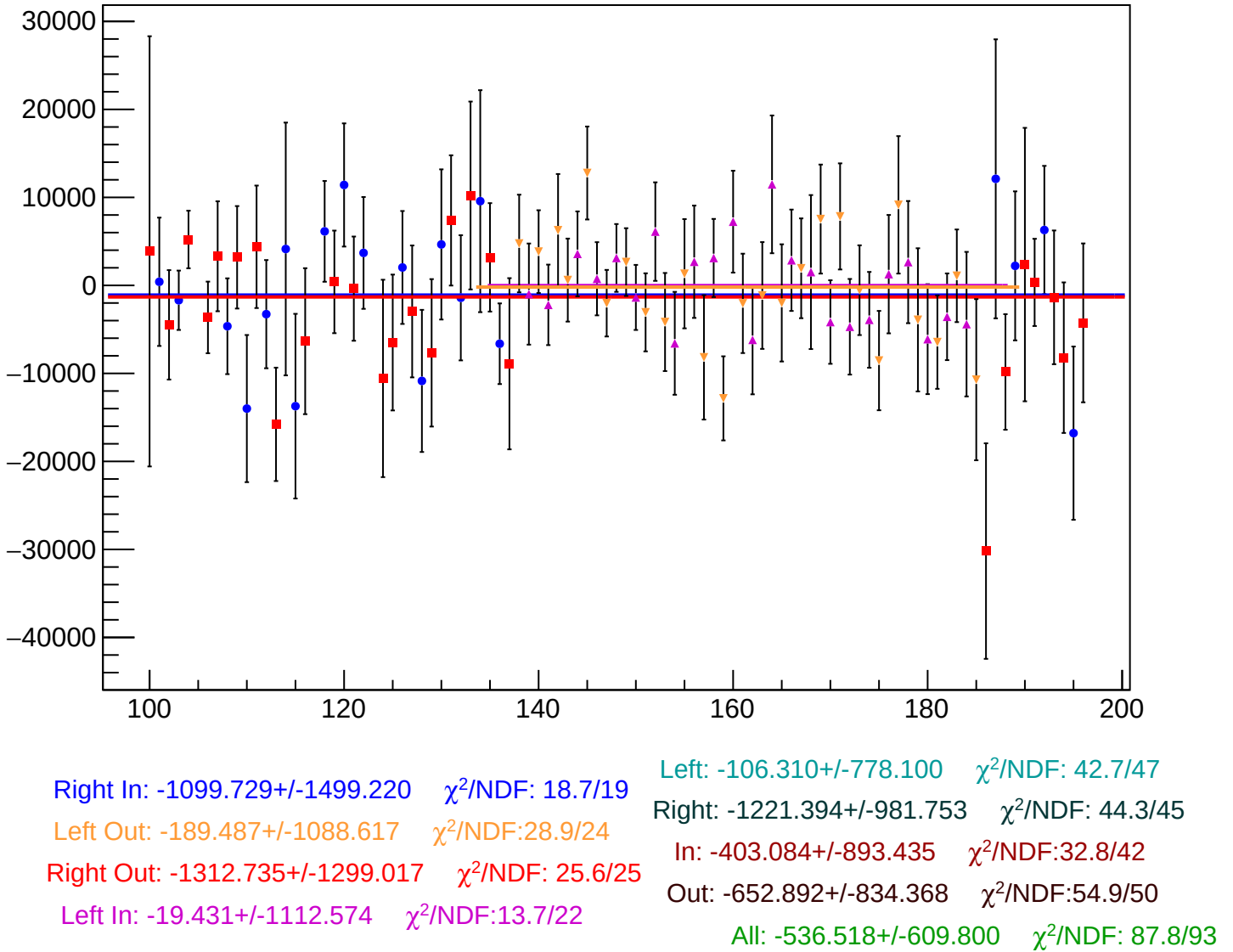
Left: 1846.835+/-0.213 $\chi^2$/NDF: 34978.8/47

Right: 1936.969+/-0.300 $\chi^2$/NDF: 1095960.4/45

In: 1874.096+/-0.251 $\chi^2$/NDF:745390.1/42

Out: 1879.570+/-0.240 $\chi^2$/NDF:445341.5/50

All: 1876.963+/-0.174 $\chi^2$/NDF: 1190979.8/93


asym_atr_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
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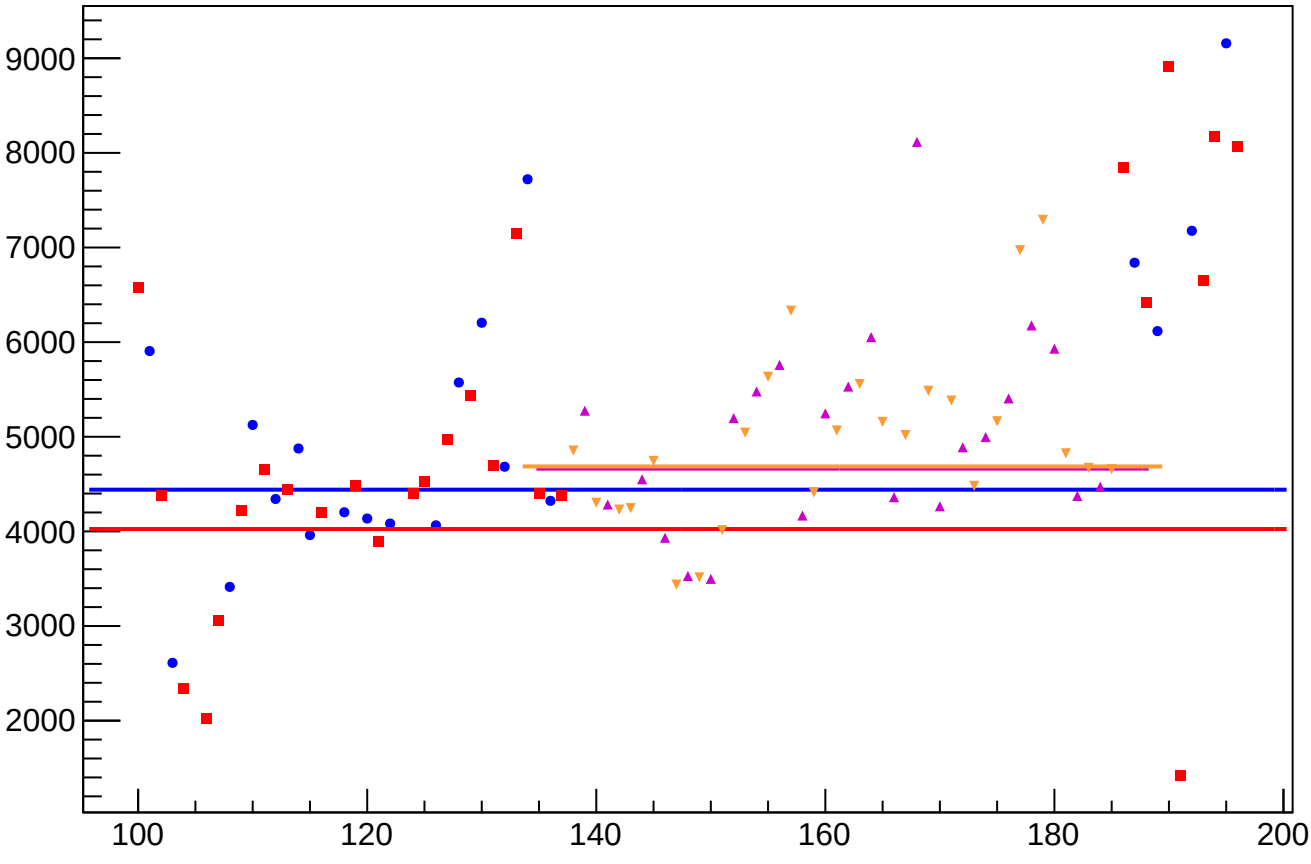
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -1099.729+/-1499.220 χ²/NDF: 18.7/19
Left Out: -189.487+/-1088.617 χ²/NDF:28.9/24
Right Out: -1312.735+/-1299.017 χ²/NDF: 25.6/25
Left In: -19.431+/-1112.574 χ²/NDF:13.7/22
Left: -106.310+/-778.100 χ²/NDF: 42.7/47
Right: -1221.394+/-981.753 χ²/NDF: 44.3/45
In: -403.084+/-893.435 χ²/NDF:32.8/42
Out: -652.892+/-834.368 χ²/NDF:54.9/50
All: -536.518+/-609.800 χ²/NDF: 87.8/93




Right In: 4440.787+/-1.060 $\chi^2$/NDF: 1909842.1/19

Left Out: 4686.346+/-0.770 $\chi^2$/NDF:1185089.0/24

Right Out: 4025.088+/-0.919 $\chi^2$/NDF: 3748830.1/25

Left In: 4663.273+/-0.787 $\chi^2$/NDF:1286722.8/22

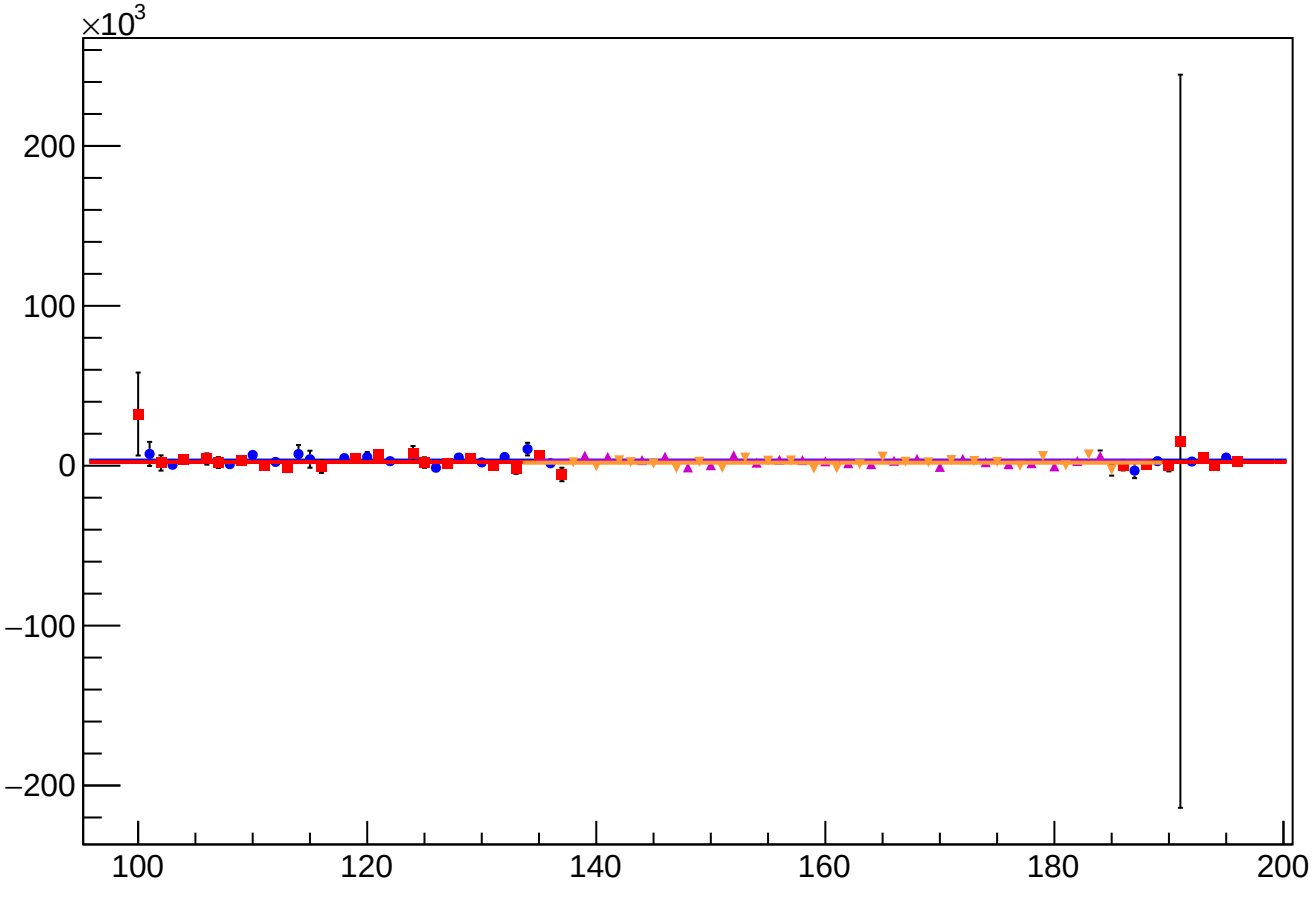
Left: 4675.061+/-0.550 $\chi^2$/NDF: 2472251.2/47

Right: 4203.346+/-0.694 $\chi^2$/NDF: 5746500.2/45

In: 4584.260+/-0.632 $\chi^2$/NDF:3224968.6/42

Out: 4413.537+/-0.590 $\chi^2$/NDF:5238364.2/50

All: 4493.069+/-0.431 $\chi^2$/NDF: 8502340.4/93




Right In: 3218.077+/-645.041 $\chi^2$/NDF: 14.8/19

Left Out: 1880.927+/-428.980 $\chi^2$/NDF:32.9/24

Right Out: 2318.178+/-590.533 $\chi^2$/NDF: 21.1/25

Left In: 2798.435+/-439.234 $\chi^2$/NDF:25.4/22

Left: 2328.846+/-306.896 $\chi^2$/NDF: 60.6/47

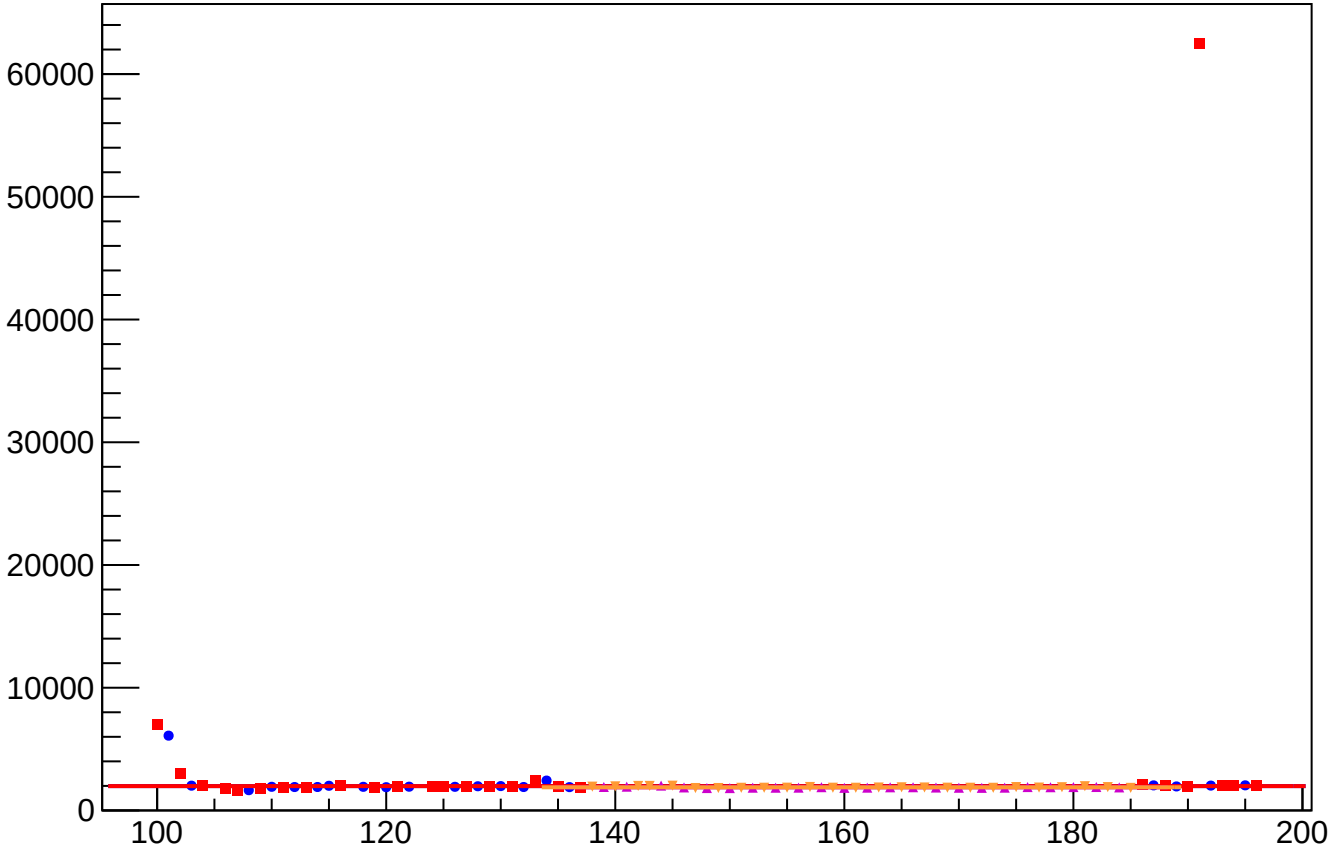
Right: 2728.505+/-435.567 $\chi^2$/NDF: 37.0/45

In: 2931.373+/-363.056 $\chi^2$/NDF:40.5/42

Out: 2031.963+/-347.071 $\chi^2$/NDF:54.4/50

All: 2461.433+/-250.877 $\chi^2$/NDF: 98.2/93

# dit_asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 1985.524+/-0.456 $\chi^2$/NDF: 668450.6/19

Left Out: 1887.545+/-0.303 $\chi^2$/NDF:31955.7/24

Right Out: 1983.285+/-0.417 $\chi^2$/NDF: 415679.2/25

Left In: 1880.575+/-0.311 $\chi^2$/NDF:19037.6/22

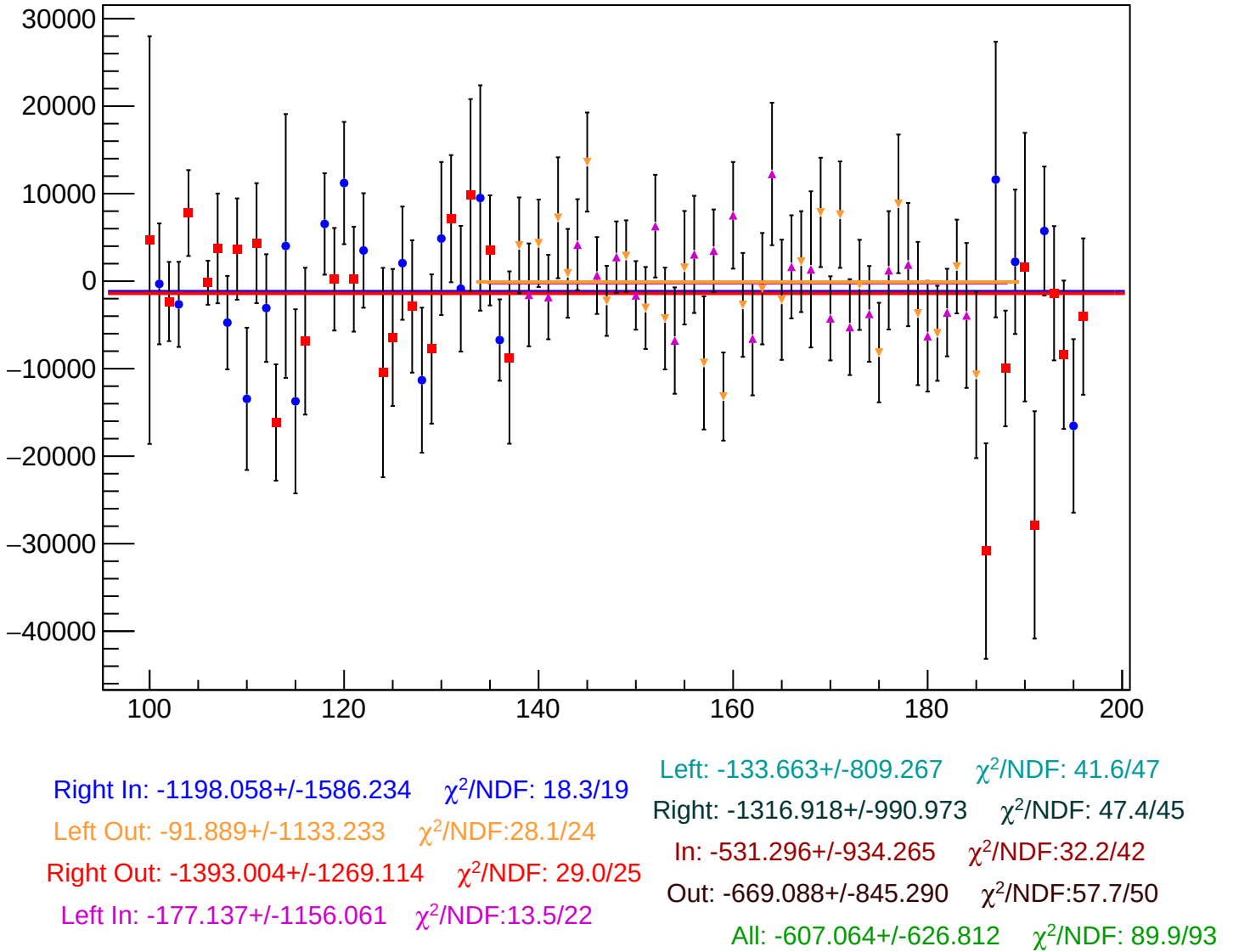
Left: 1884.142+/-0.217 $\chi^2$/NDF: 51251.1/47

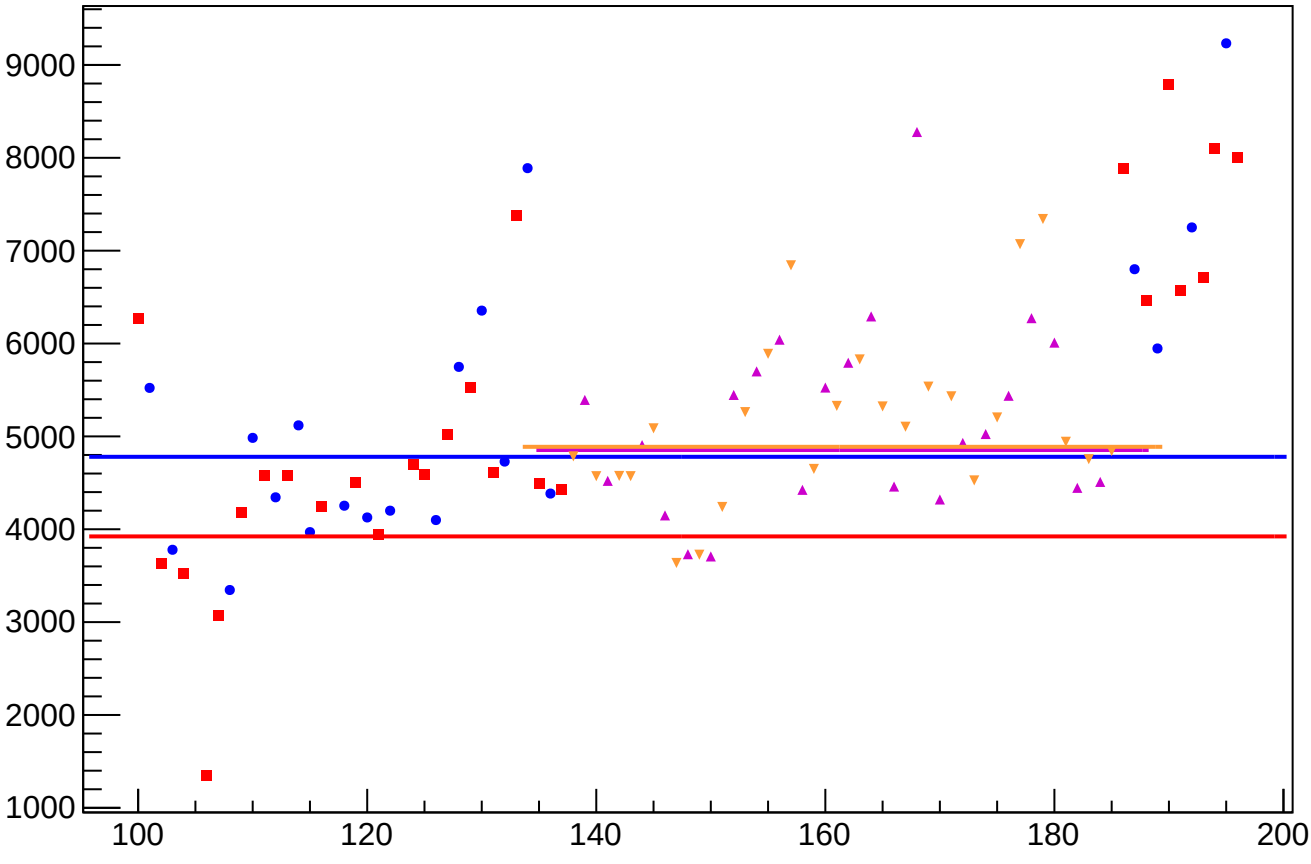
Right: 1984.305+/-0.308 $\chi^2$/NDF: 1084142.9/45

In: 1913.822+/-0.257 $\chi^2$/NDF:723660.1/42

Out: 1920.640+/-0.245 $\chi^2$/NDF:482070.5/50

All: 1917.385+/-0.177 $\chi^2$/NDF: 1206099.2/93


asym_atr_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -1198.058+/-1586.234 χ²/NDF: 18.3/19
Left Out: -91.889+/-1133.233 χ²/NDF:28.1/24
Right Out: -1393.004+/-1269.114 χ²/NDF: 29.0/25
Left In: -177.137+/-1156.061 χ²/NDF:13.5/22
Left: -133.663+/-809.267 χ²/NDF: 41.6/47
Right: -1316.918+/-990.973 χ²/NDF: 47.4/45
In: -531.296+/-934.265 χ²/NDF:32.2/42
Out: -669.088+/-845.290 χ²/NDF:57.7/50
All: -607.064+/-626.812 χ²/NDF: 89.9/93




Right In: 4780.143+/-1.122 $\chi^2$/NDF: 1272388.1/19

Left Out: 4887.823+/-0.801 $\chi^2$/NDF:1063298.6/24

Right Out: 3922.930+/-0.897 $\chi^2$/NDF: 4567439.4/25

Left In: 4853.363+/-0.817 $\chi^2$/NDF:1178636.9/22

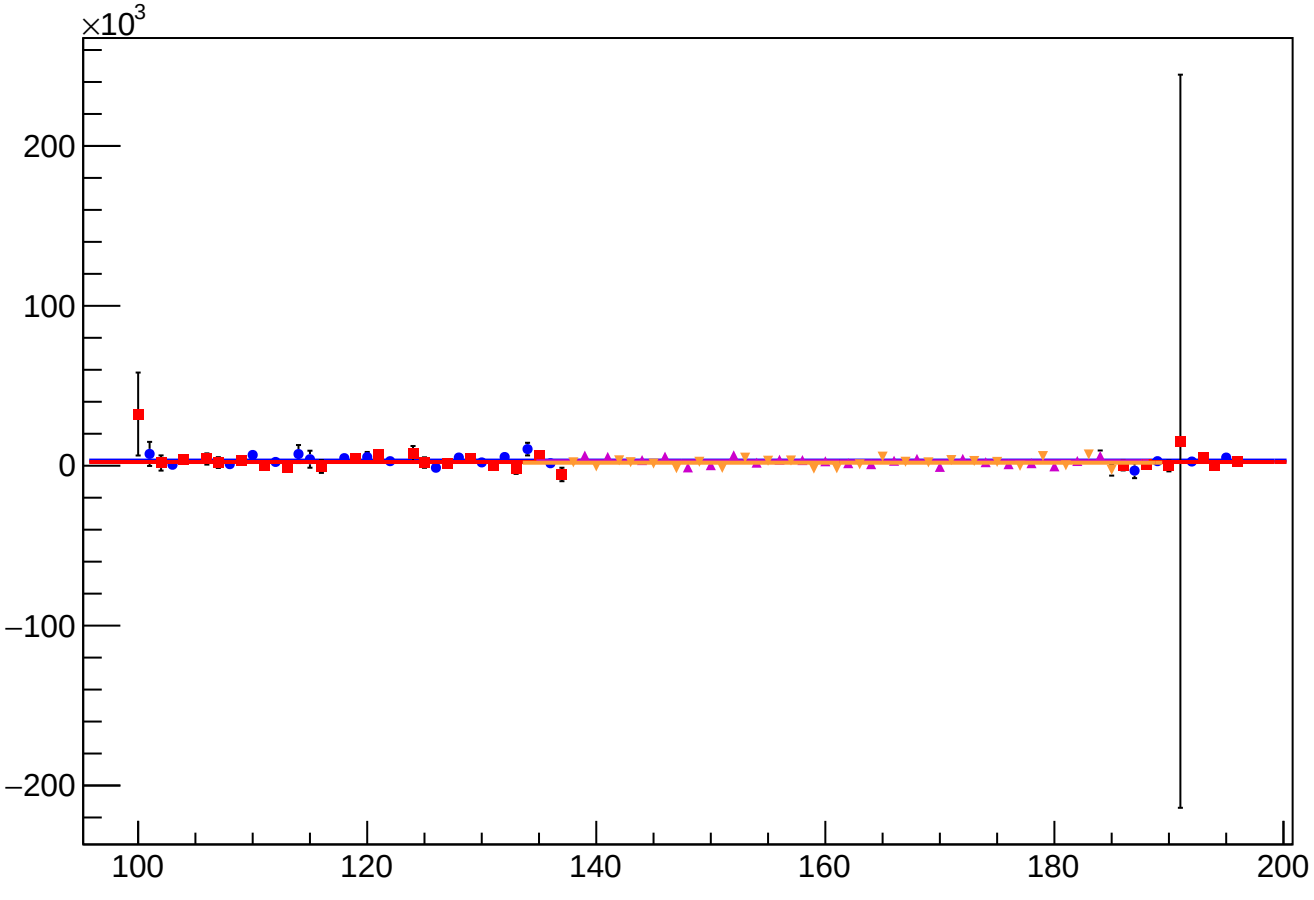
Left: 4870.937+/-0.572 $\chi^2$/NDF: 2242841.7/47

Right: 4257.493+/-0.701 $\chi^2$/NDF: 6195946.4/45

In: 4827.963+/-0.661 $\chi^2$/NDF:2453808.2/42

Out: 4459.778+/-0.598 $\chi^2$/NDF:6273957.6/50

All: 4625.508+/-0.443 $\chi^2$/NDF: 8898564.5/93




Right In: 3218.079+/-645.040 $\chi^2$/NDF: 14.8/19

Left Out: 1880.922+/-428.981 $\chi^2$/NDF:32.9/24

Right Out: 2318.179+/-590.533 $\chi^2$/NDF: 21.1/25

Left In: 2798.435+/-439.234 $\chi^2$/NDF:25.4/22

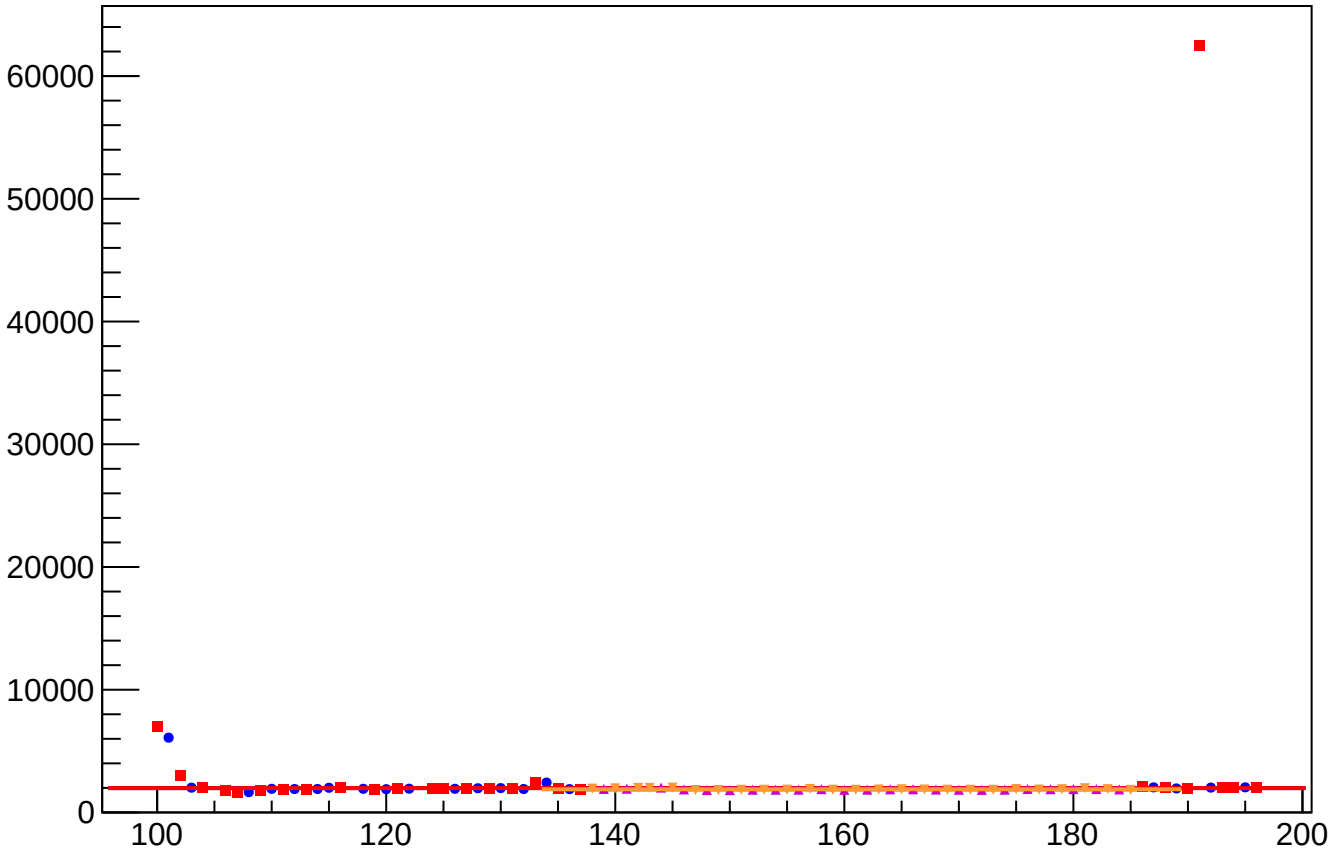
Left: 2328.844+/-306.896 $\chi^2$/NDF: 60.6/47

Right: 2728.507+/-435.567 $\chi^2$/NDF: 37.0/45

In: 2931.374+/-363.056 $\chi^2$/NDF:40.5/42

Out: 2031.960+/-347.071 $\chi^2$/NDF:54.4/50

All: 2461.432+/-250.877 $\chi^2$/NDF: 98.2/93




Right In: 1985.524+/-0.456 $\chi^2$/NDF: 668450.7/19

Left Out: 1887.546+/-0.303 $\chi^2$/NDF:31955.8/24

Right Out: 1983.284+/-0.417 $\chi^2$/NDF: 415678.7/25

Left In: 1880.576+/-0.311 $\chi^2$/NDF:19037.6/22

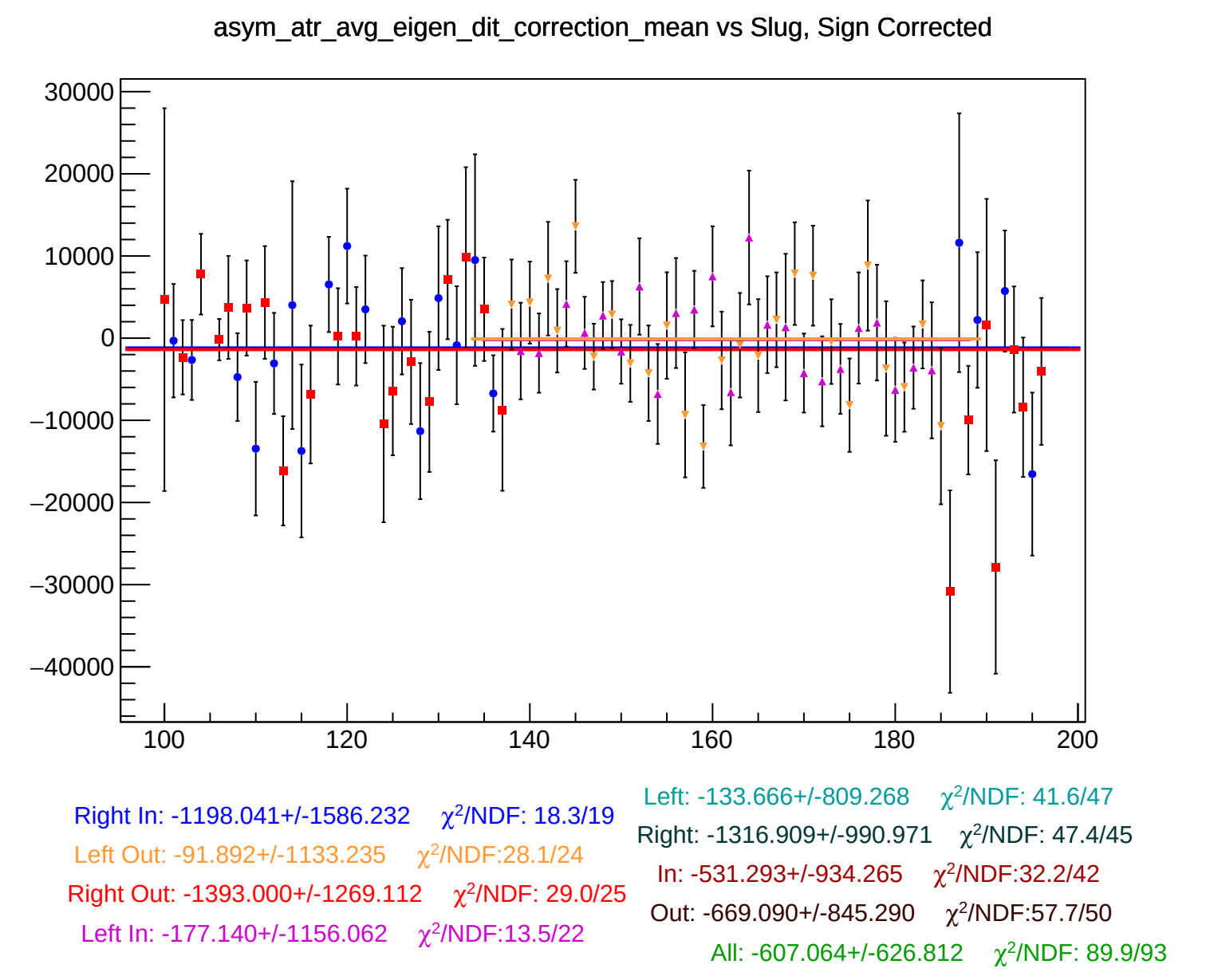
Left: 1884.143+/-0.217 $\chi^2$/NDF: 51251.1/47

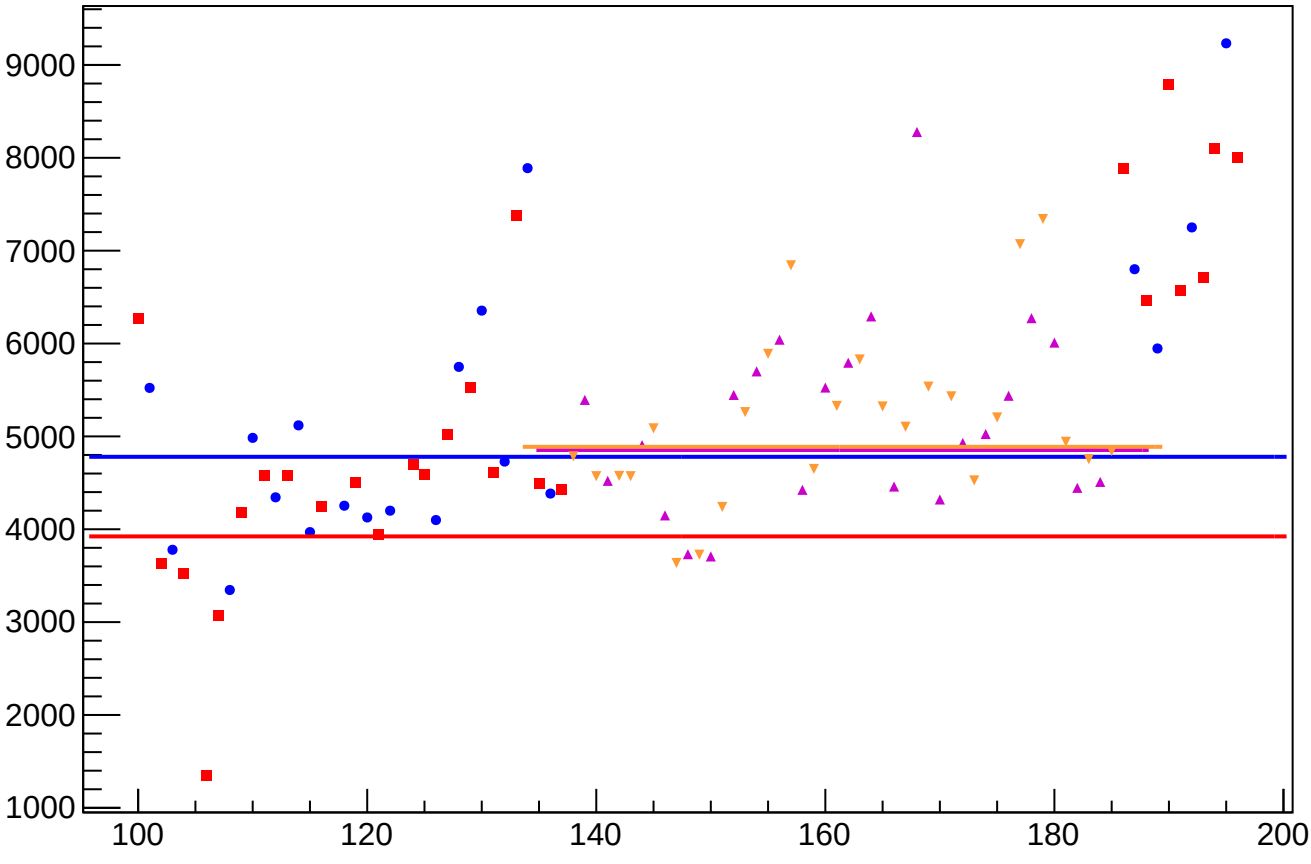
Right: 1984.305+/-0.308 $\chi^2$/NDF: 1084142.4/45

In: 1913.822+/-0.257 $\chi^2$/NDF:723659.3/42

Out: 1920.640+/-0.245 $\chi^2$/NDF:482069.4/50

All: 1917.385+/-0.177 $\chi^2$/NDF: 1206097.3/93


asym_atr_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -1198.041+/-1586.232 χ²/NDF: 18.3/19
Left Out: -91.892+/-1133.235 χ²/NDF:28.1/24
Right Out: -1393.000+/-1269.112 χ²/NDF: 29.0/25
Left In: -177.140+/-1156.062 χ²/NDF:13.5/22
Left: -133.666+/-809.268 χ²/NDF: 41.6/47
Right: -1316.909+/-990.971 χ²/NDF: 47.4/45
In: -531.293+/-934.265 χ²/NDF:32.2/42
Out: -669.090+/-845.290 χ²/NDF:57.7/50
All: -607.064+/-626.812 χ²/NDF: 89.9/93




Right In: 4780.136+/-1.122 $\chi^2$/NDF: 1272392.4/19

Left Out: 4887.830+/-0.801 $\chi^2$/NDF:1063300.0/24

Right Out: 3922.921+/-0.897 $\chi^2$/NDF: 4567455.3/25

Left In: 4853.371+/-0.817 $\chi^2$/NDF:1178639.4/22

Left: 4870.944+/-0.572 $\chi^2$/NDF: 2242845.7/47

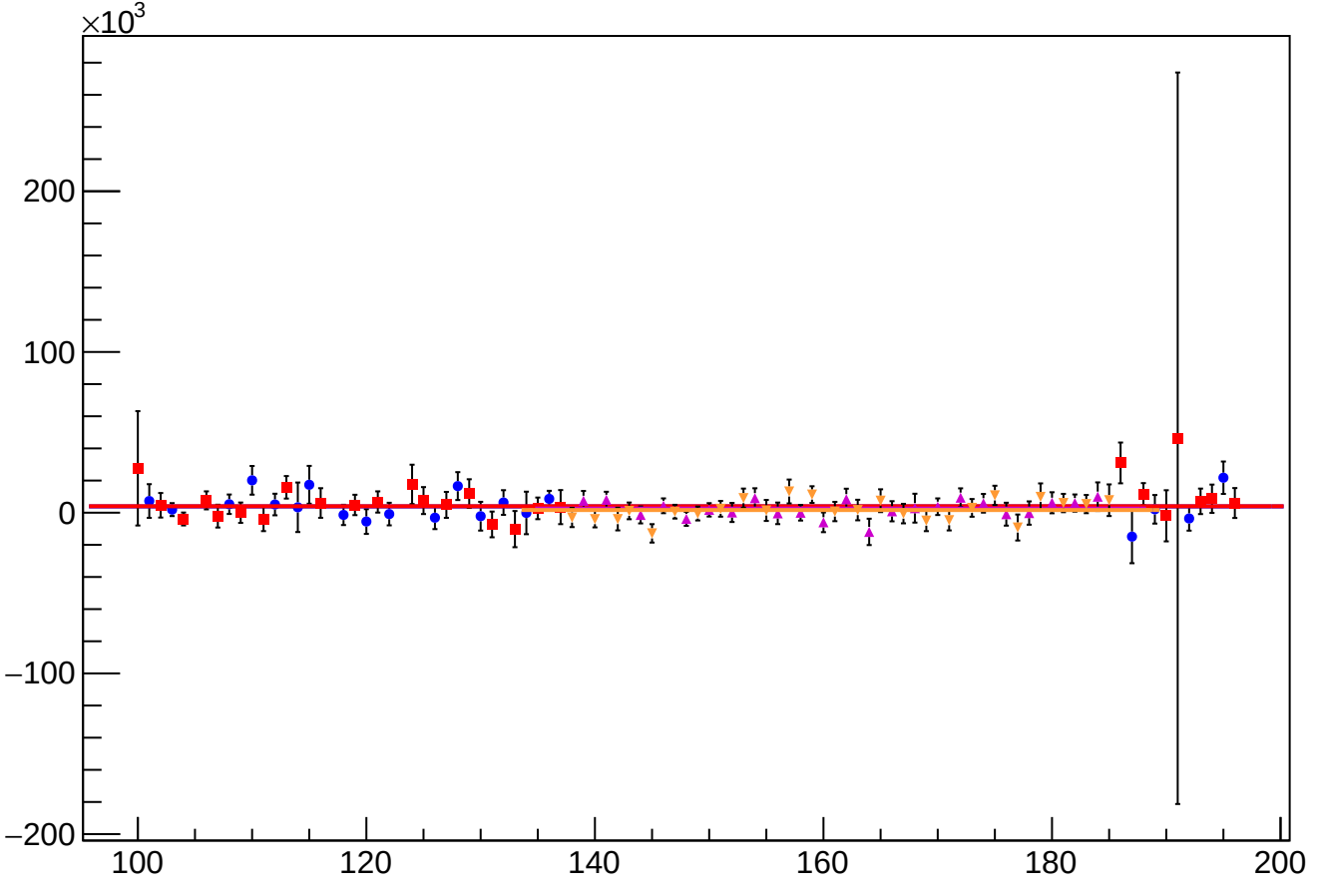
Right: 4257.484+/-0.701 $\chi^2$/NDF: 6195969.3/45

In: 4827.965+/-0.661 $\chi^2$/NDF:2453816.1/42

Out: 4459.777+/-0.598 $\chi^2$/NDF:6273997.6/50

All: 4625.508+/-0.443 $\chi^2$/NDF: 8898615.5/93

# asym_atr_avg_mean vs Slug, Sign Corrected




Right In: 3887.878+/-1670.111 $\chi^2$/NDF: 17.8/19

Left Out: 1654.615+/-1178.652 $\chi^2$/NDF:26.0/24

Right Out: 4012.586+/-1526.300 $\chi^2$/NDF: 22.3/25

Left In: 2563.603+/-1204.450 $\chi^2$/NDF:16.0/22

Left: 2099.270+/-842.406 $\chi^2$/NDF: 42.2/47

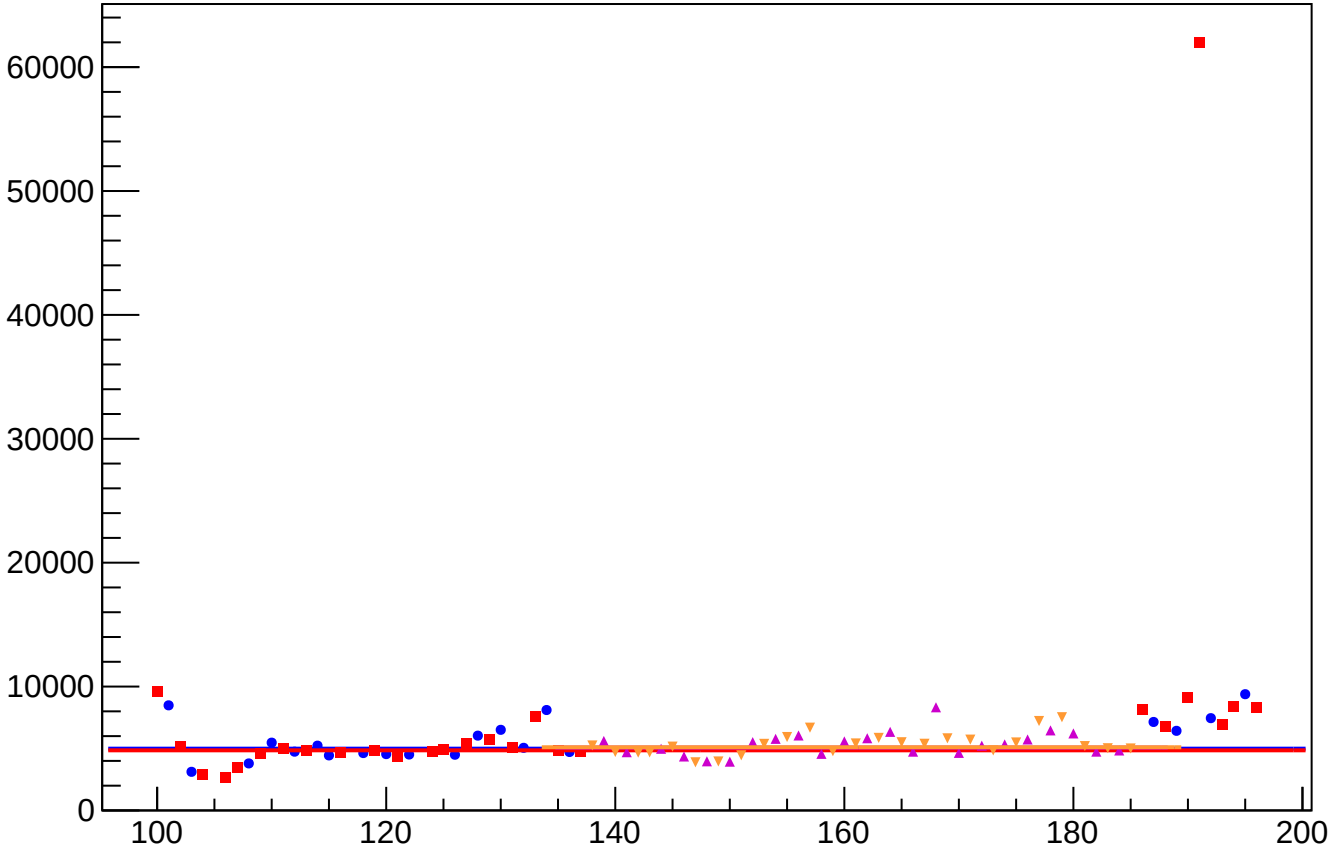
Right: 3955.831+/-1126.674 $\chi^2$/NDF: 40.1/45

In: 3016.702+/-976.906 $\chi^2$/NDF:34.2/42

Out: 2535.473+/-932.875 $\chi^2$/NDF:49.8/50

All: 2764.998+/-674.671 $\chi^2$/NDF: 84.1/93

# asym_atr_avg_rms vs Slug, Sign Corrected




Right In: 4986.939+/-1.181 $\chi^2$/NDF: 1659514.7/19

Left Out: 5100.641+/-0.833 $\chi^2$/NDF:909330.5/24

Right Out: 4854.133+/-1.071 $\chi^2$/NDF: 2436151.3/25

Left In: 5073.543+/-0.852 $\chi^2$/NDF:991915.5/22

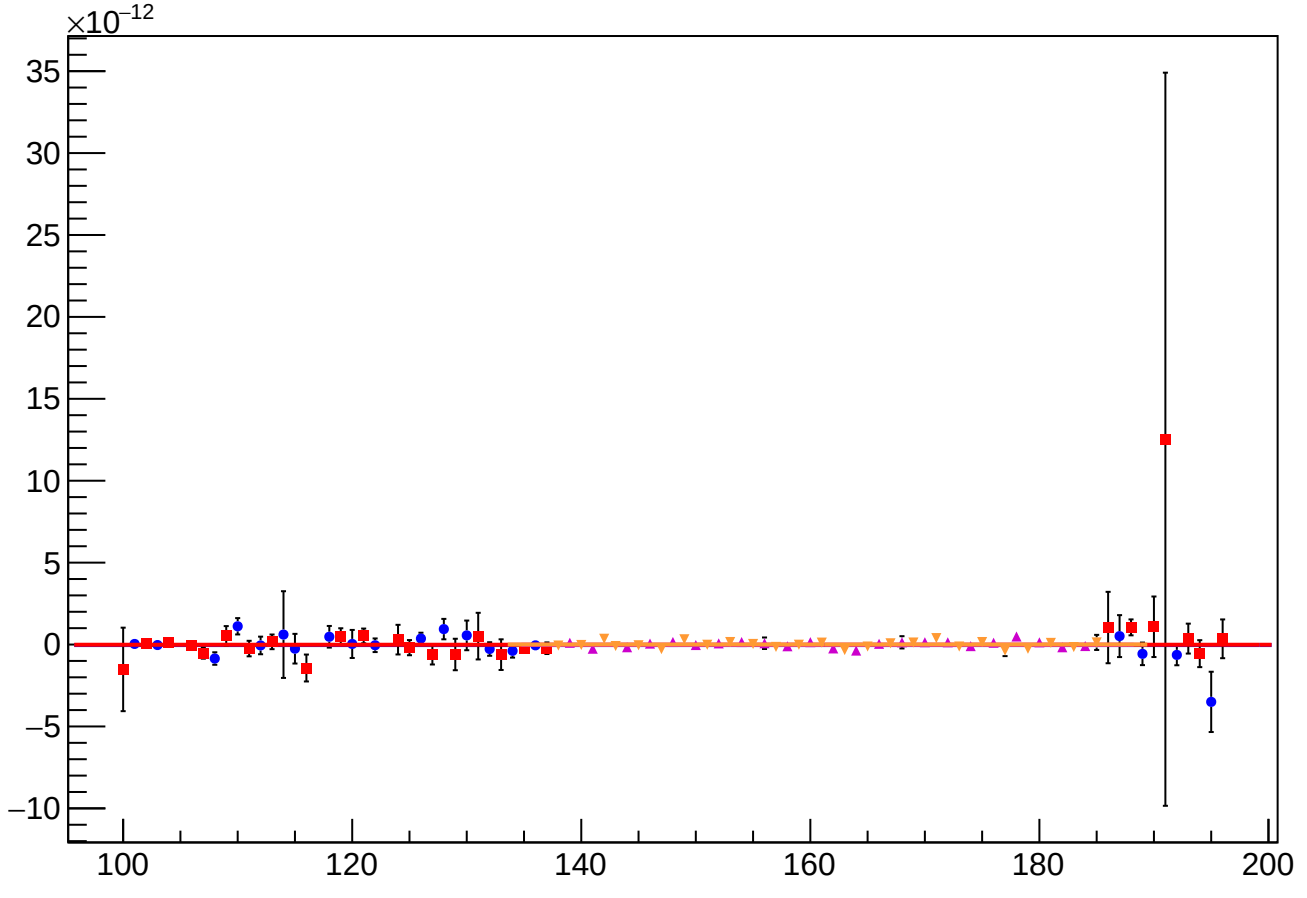
Left: 5087.385+/-0.596 $\chi^2$/NDF: 1901763.2/47

Right: 4914.095+/-0.794 $\chi^2$/NDF: 4102602.6/45

In: 5043.911+/-0.691 $\chi^2$/NDF:2654968.1/42

Out: 5007.716+/-0.658 $\chi^2$/NDF:3378459.9/50

All: 5024.930+/-0.476 $\chi^2$/NDF: 6034867.8/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:33.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:32.4/22

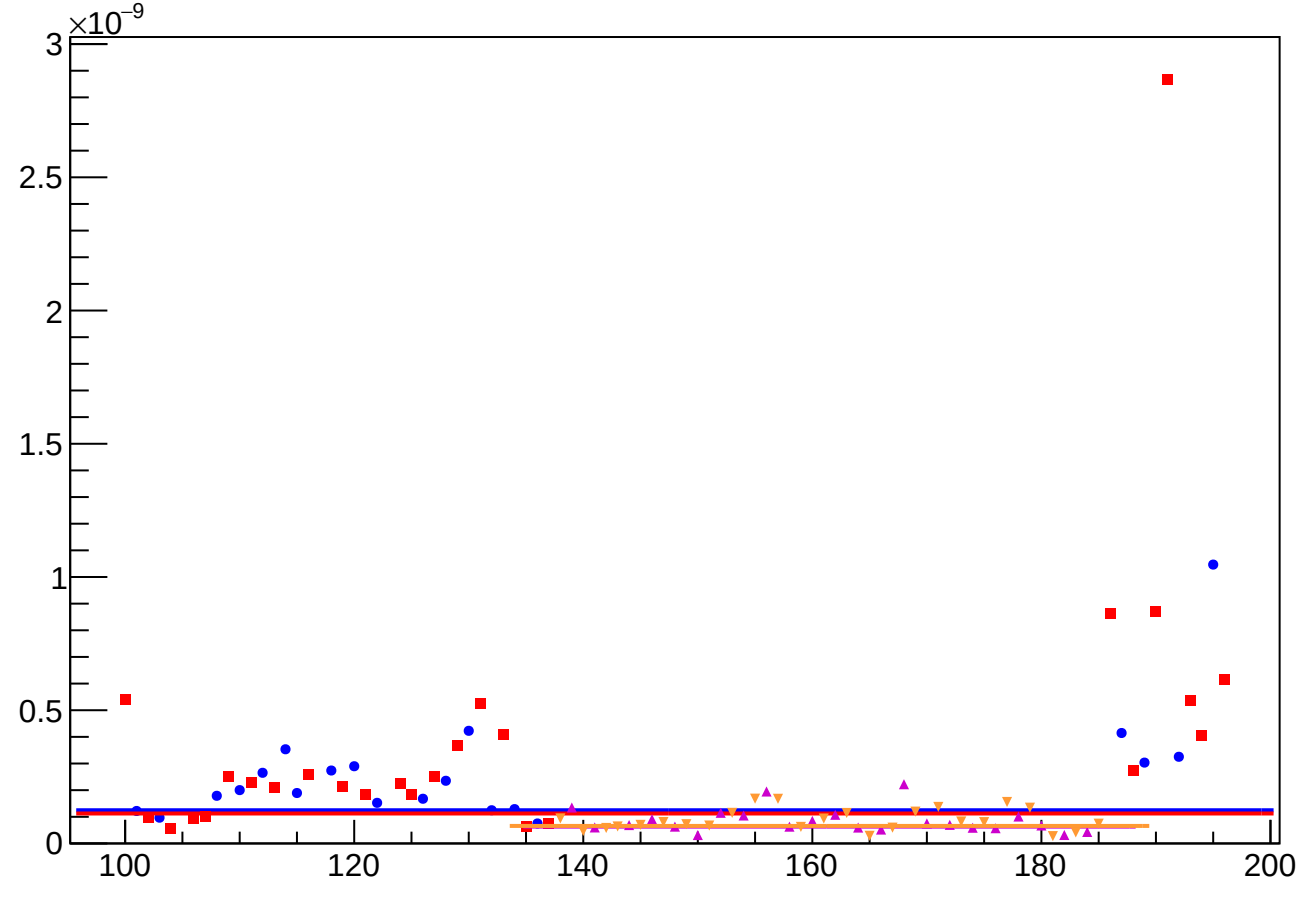
Left: -0.000+/-0.000 $\chi^2$/NDF: 65.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:53.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:54.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 108.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2062468.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2472657.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3770814.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2196878.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4678116.7/47

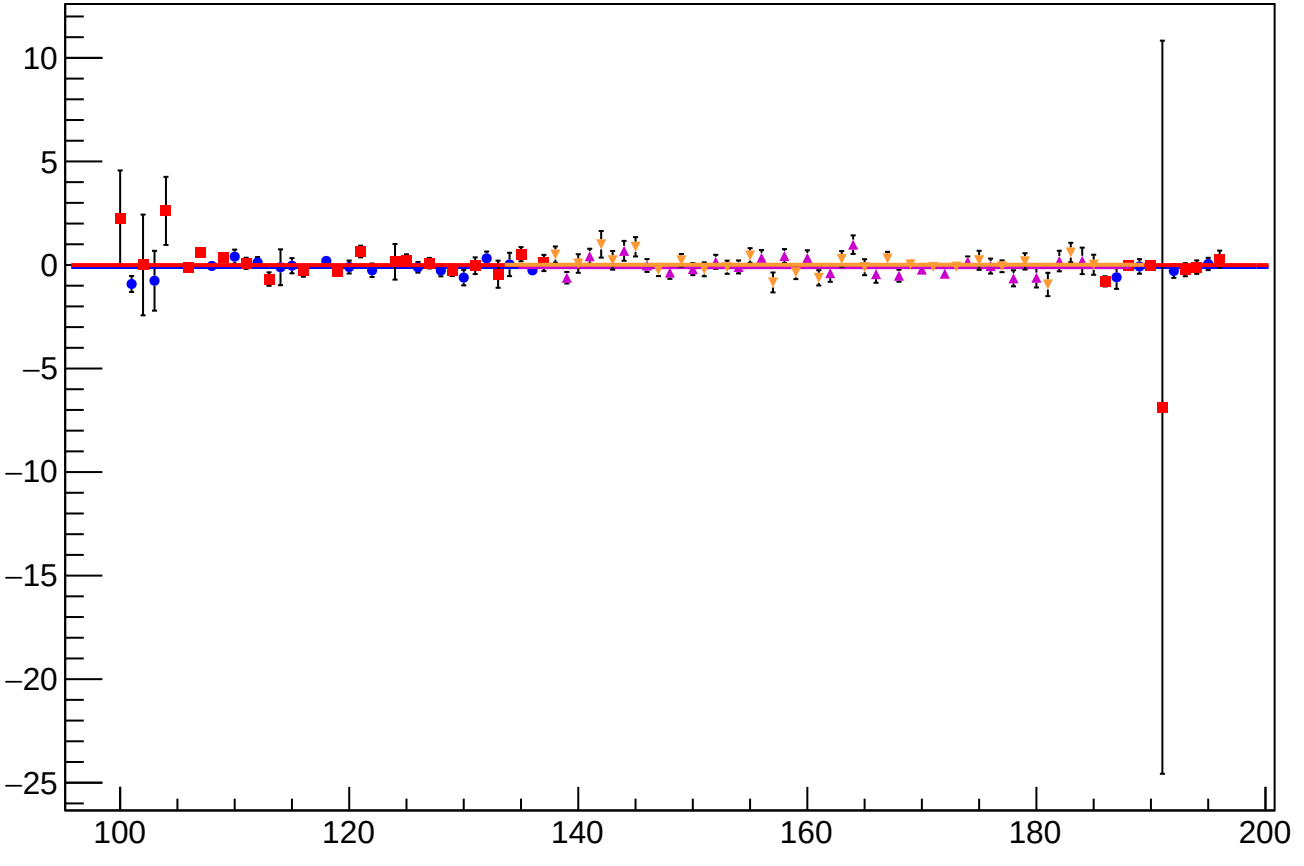
Right: 0.000+/-0.000 $\chi^2$/NDF: 5861376.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:5462500.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6992330.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 12457108.4/93

asym_atr_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.096+/-0.071 $\chi^2$/NDF: 15.2/19

Left Out: 0.012+/-0.068 $\chi^2$/NDF:25.2/24

Right Out: -0.006+/-0.056 $\chi^2$/NDF: 41.2/25

Left In: -0.105+/-0.069 $\chi^2$/NDF:31.4/22

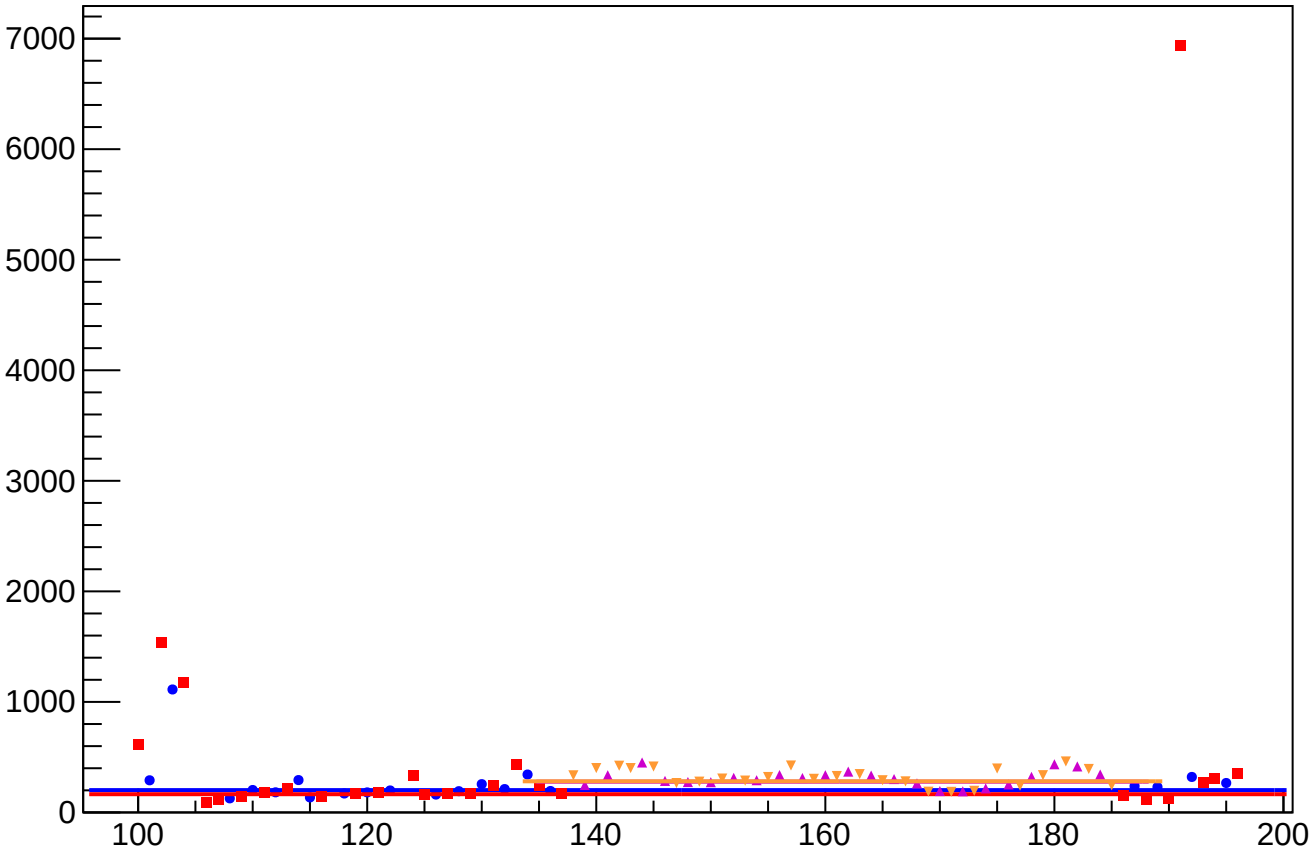
Left: -0.046+/-0.048 $\chi^2$/NDF: 58.1/47

Right: -0.041+/-0.044 $\chi^2$/NDF: 57.4/45

In: -0.101+/-0.049 $\chi^2$/NDF:46.7/42

Out: 0.001+/-0.043 $\chi^2$/NDF:66.4/50

All: -0.043+/-0.032 $\chi^2$/NDF: 115.6/93




Right In: 202.120+/-0.050 $\chi^2$/NDF: 1884015.1/19

Left Out: 281.818+/-0.048 $\chi^2$/NDF:2520824.2/24

Right Out: 165.070+/-0.040 $\chi^2$/NDF: 4268015.4/25

Left In: 278.409+/-0.049 $\chi^2$/NDF:1799690.4/22

Left: 280.127+/-0.034 $\chi^2$/NDF: 4323003.2/47

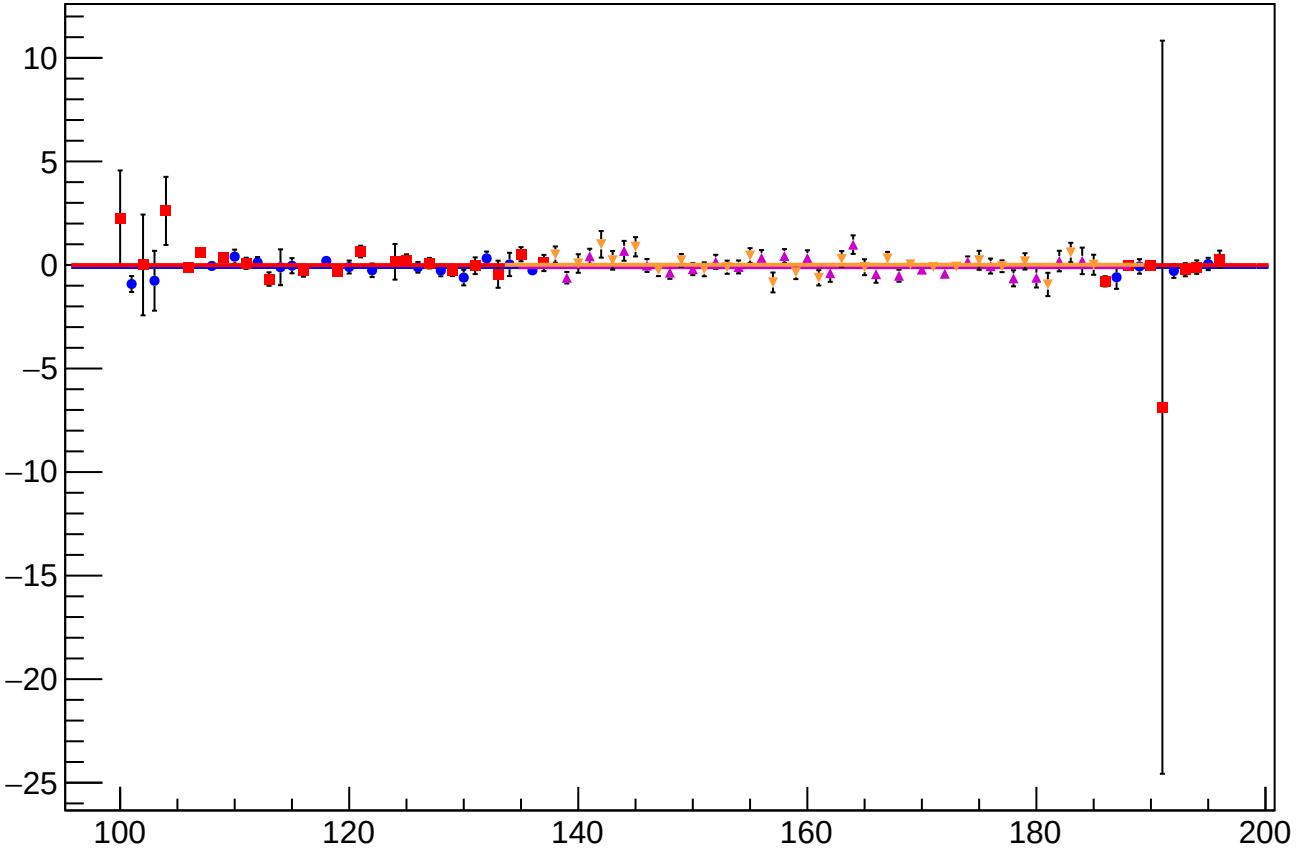
Right: 179.370+/-0.031 $\chi^2$/NDF: 6491003.7/45

In: 241.319+/-0.035 $\chi^2$/NDF:4886354.5/42

Out: 212.124+/-0.031 $\chi^2$/NDF:10303330.9/50

All: 224.842+/-0.023 $\chi^2$/NDF: 15587612.6/93

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.096+/-0.071 $\chi^2$/NDF: 15.2/19

Left Out: 0.012+/-0.068 $\chi^2$/NDF:25.2/24

Right Out: -0.006+/-0.056 $\chi^2$/NDF: 41.2/25

Left In: -0.105+/-0.069 $\chi^2$/NDF:31.4/22

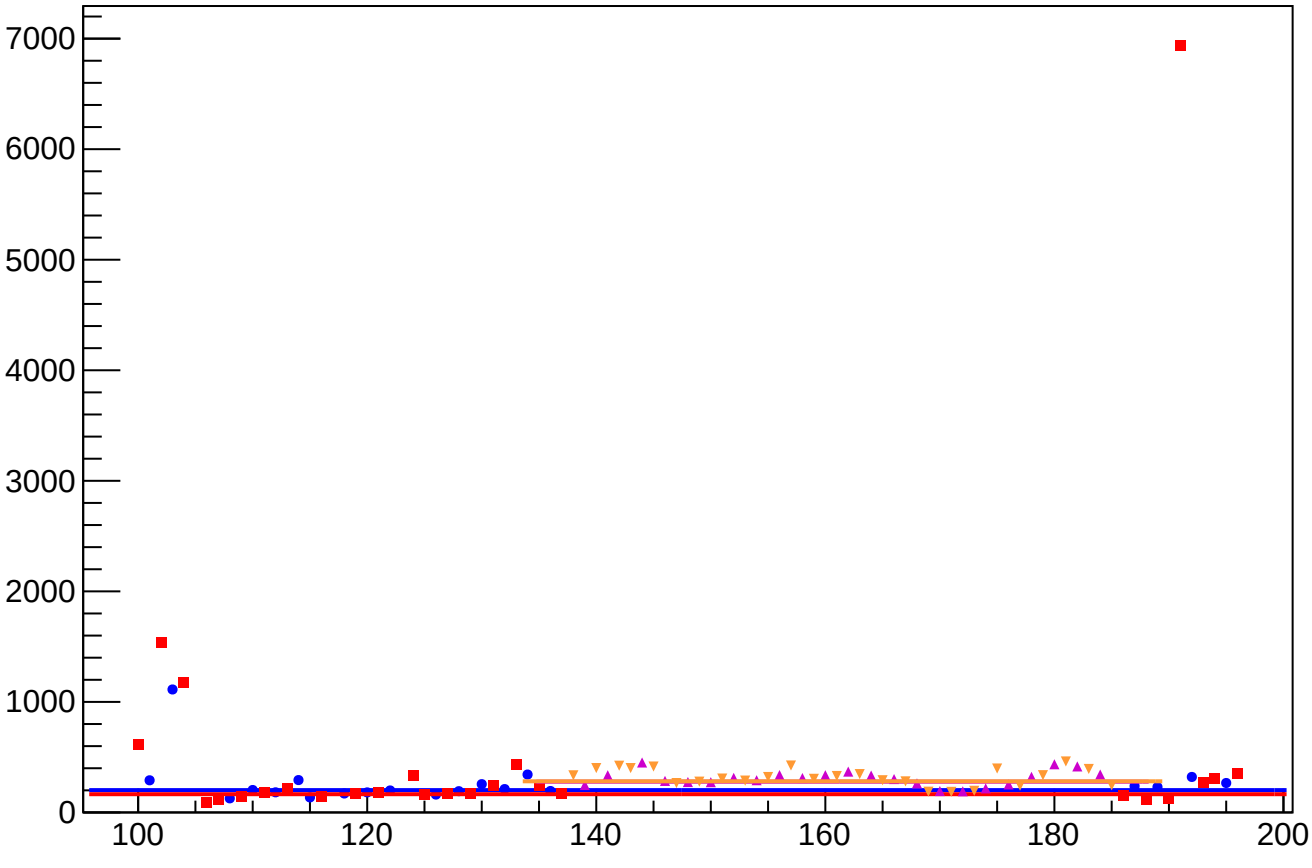
Left: -0.046+/-0.048 $\chi^2$/NDF: 58.1/47

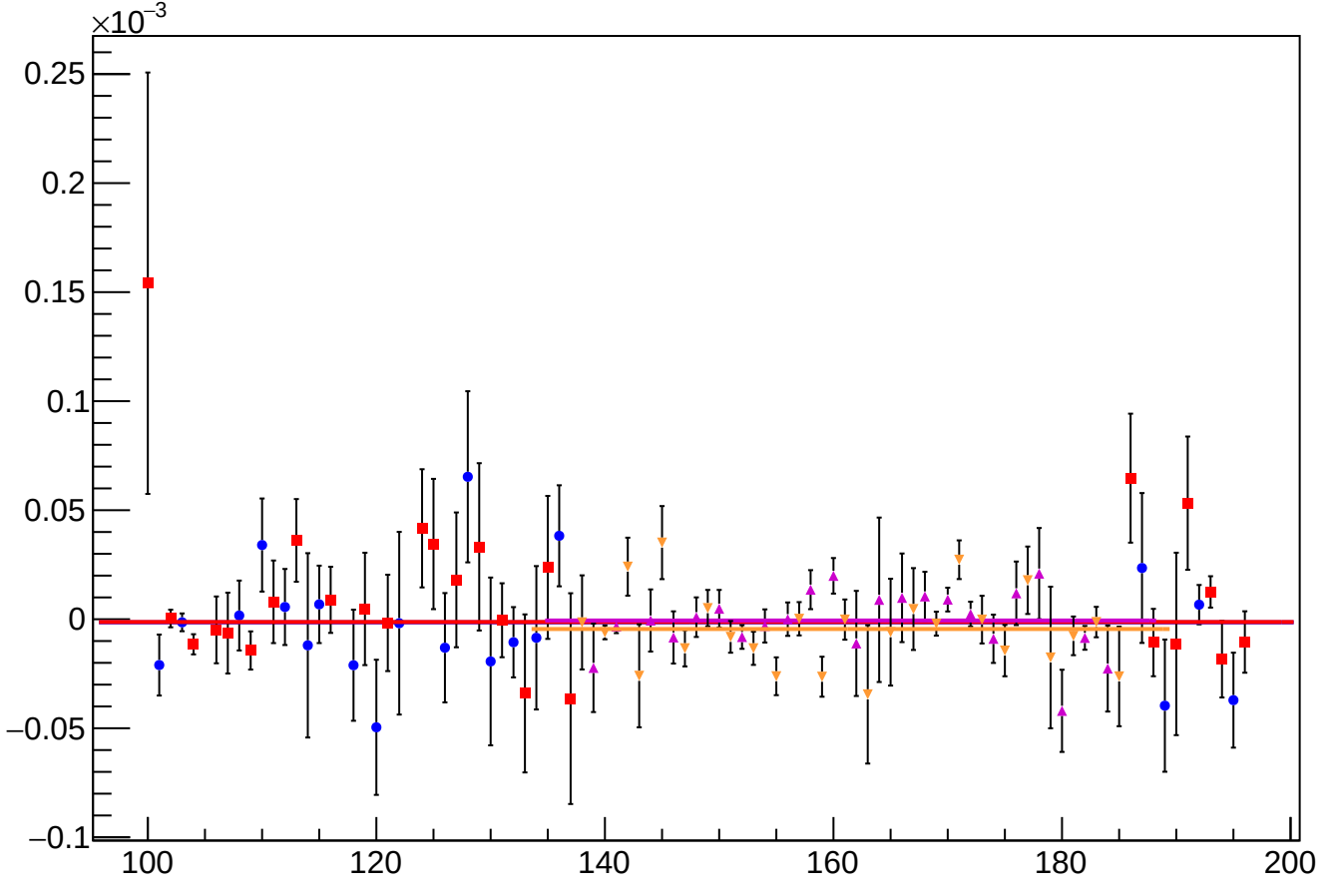
Right: -0.041+/-0.044 $\chi^2$/NDF: 57.4/45

In: -0.101+/-0.049 $\chi^2$/NDF:46.7/42

Out: 0.001+/-0.043 $\chi^2$/NDF:66.4/50

All: -0.043+/-0.032 $\chi^2$/NDF: 115.6/93


asym_atr_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
0
100
120
140
160
180
200
Right In: 202.120+/-0.050 χ²/NDF: 1884015.1/19
Left Out: 281.818+/-0.048 χ²/NDF:2520824.2/24
Right Out: 165.070+/-0.040 χ²/NDF: 4268015.4/25
Left In: 278.409+/-0.049 χ²/NDF:1799690.4/22
Left: 280.127+/-0.034 χ²/NDF: 4323003.2/47
Right: 179.370+/-0.031 χ²/NDF: 6491003.7/45
In: 241.319+/-0.035 χ²/NDF:4886354.5/42
Out: 212.124+/-0.031 χ²/NDF:10303330.9/50
All: 224.842+/-0.023 χ²/NDF: 15587612.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:46.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 35.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.1/22

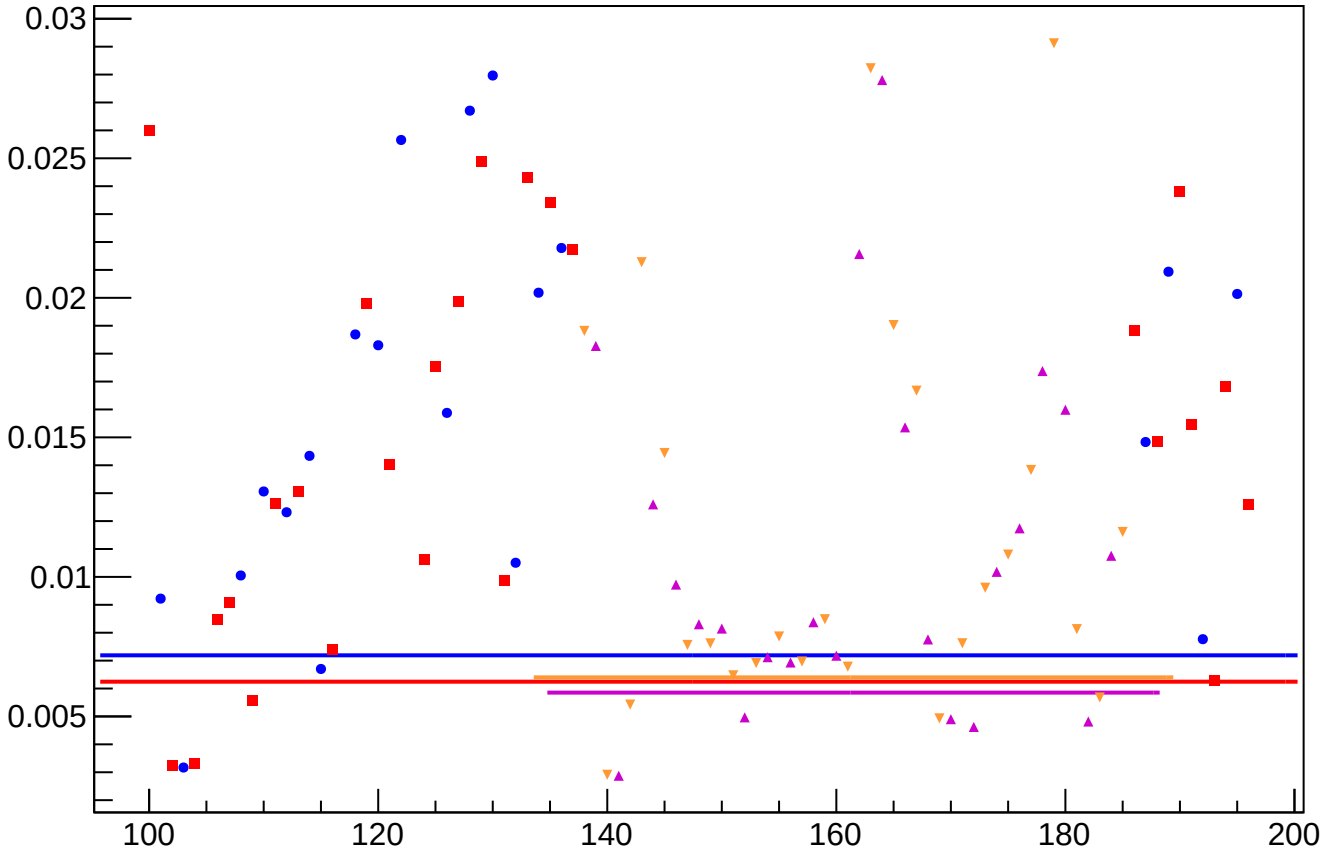
Left: -0.000+/-0.000 $\chi^2$/NDF: 78.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 55.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:49.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:83.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 134.2/93




Right In: 0.007+/-0.000 $\chi^2$/NDF: 7222263.8/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8964265.3/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 8587992.5/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:8144305.6/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 17214563.0/47

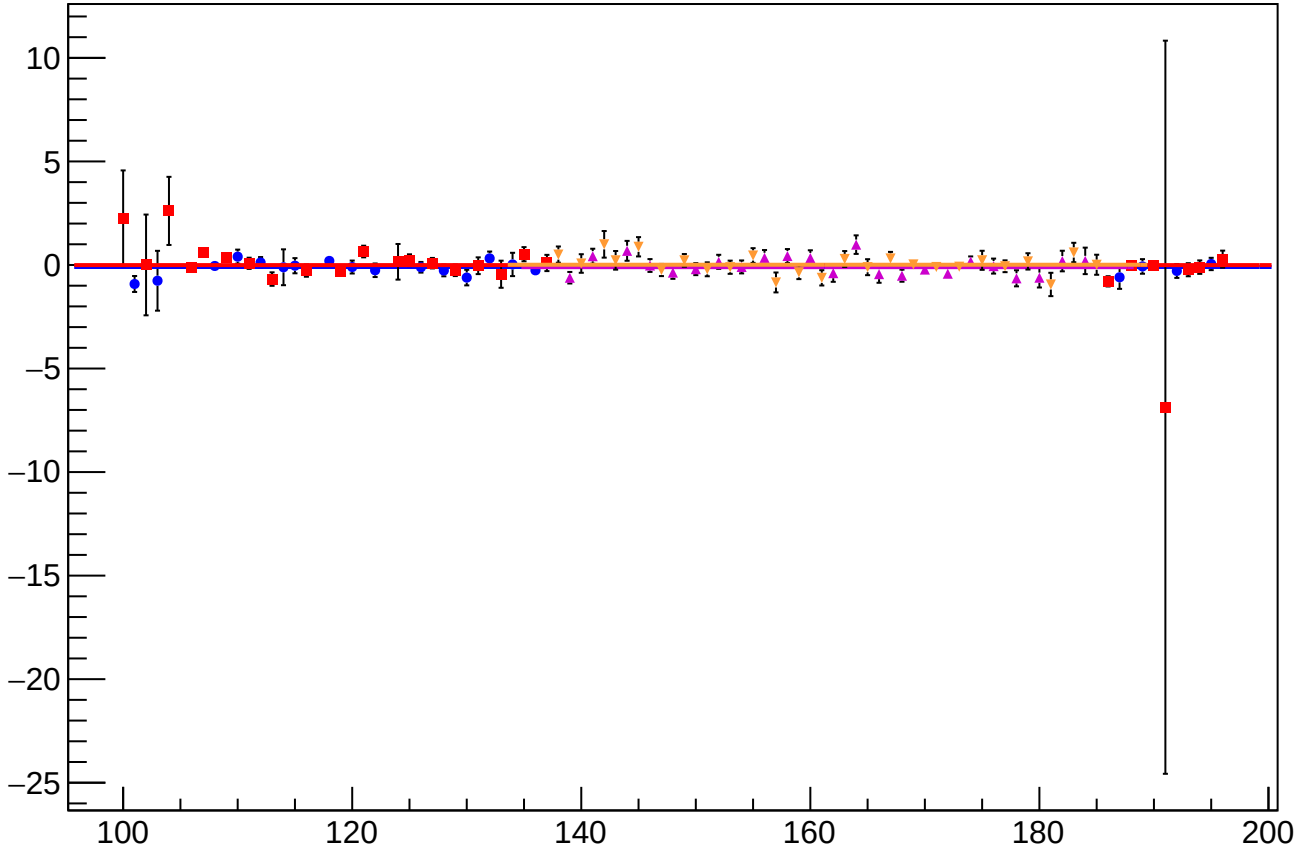
Right: 0.007+/-0.000 $\chi^2$/NDF: 15931972.0/45

In: 0.006+/-0.000 $\chi^2$/NDF:15664497.6/42

Out: 0.006+/-0.000 $\chi^2$/NDF:17558014.2/50

All: 0.006+/-0.000 $\chi^2$/NDF: 33241254.8/93

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.096+/-0.071 $\chi^2$/NDF: 15.2/19

Left Out: 0.012+/-0.068 $\chi^2$/NDF:25.2/24

Right Out: -0.006+/-0.056 $\chi^2$/NDF: 41.2/25

Left In: -0.105+/-0.069 $\chi^2$/NDF:31.4/22

Left: -0.046+/-0.048 $\chi^2$/NDF: 58.1/47

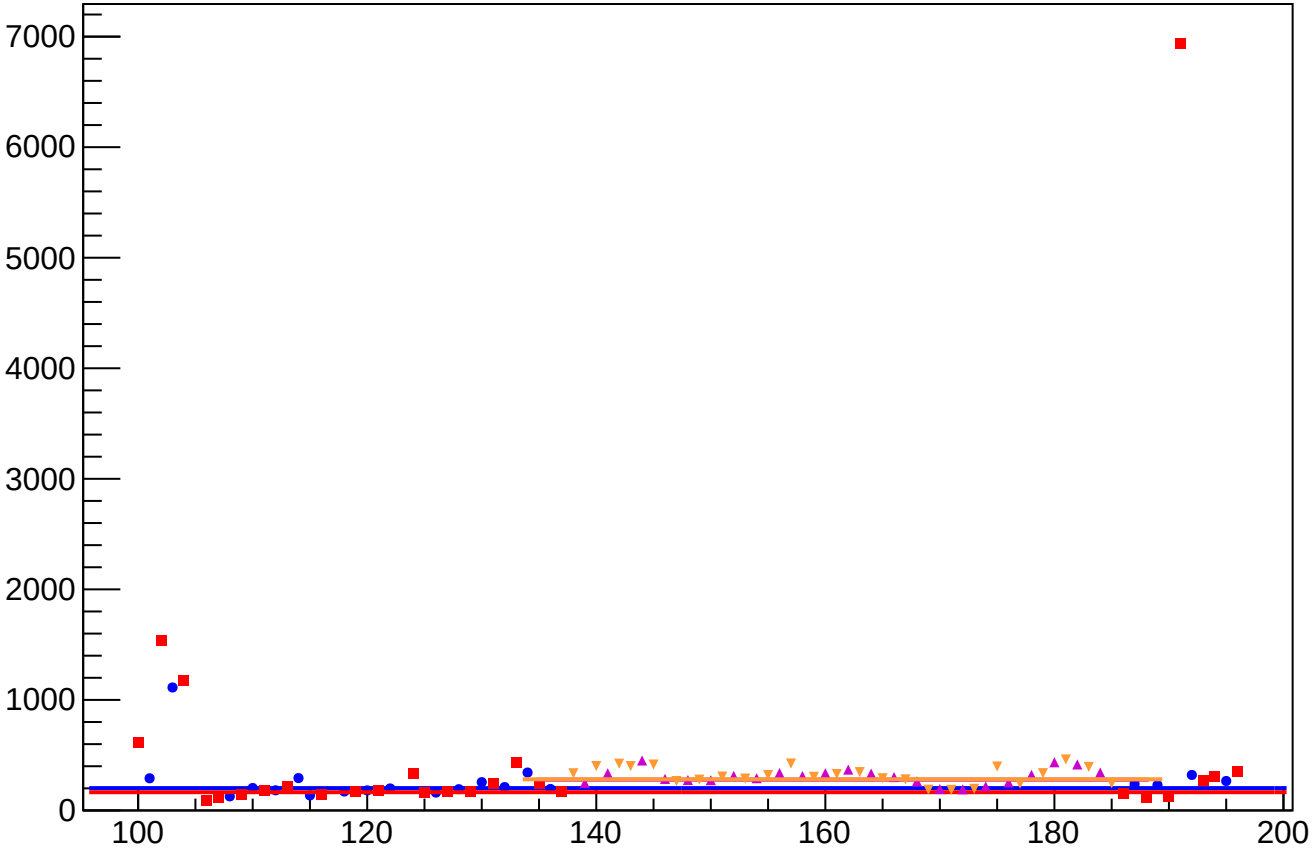
Right: -0.041+/-0.044 $\chi^2$/NDF: 57.4/45

In: -0.101+/-0.049 $\chi^2$/NDF:46.7/42

Out: 0.001+/-0.043 $\chi^2$/NDF:66.4/50

All: -0.043+/-0.032 $\chi^2$/NDF: 115.6/93

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 202.120+/-0.050 $\chi^2$/NDF: 1884006.4/19

Left Out: 281.820+/-0.048 $\chi^2$/NDF:2520889.0/24

Right Out: 165.066+/-0.040 $\chi^2$/NDF: 4268097.1/25

Left In: 278.412+/-0.049 $\chi^2$/NDF:1799730.1/22

Left: 280.130+/-0.034 $\chi^2$/NDF: 4323107.7/47

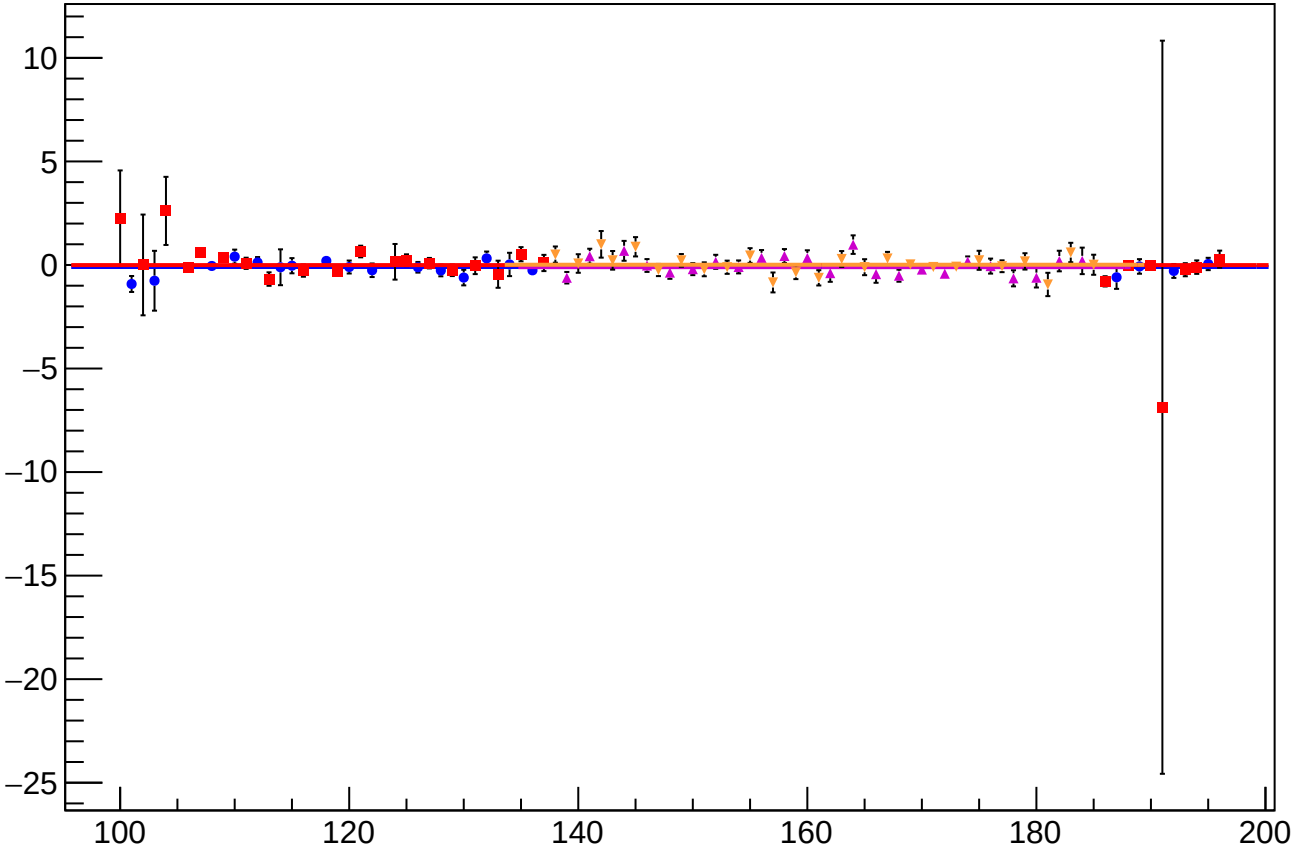
Right: 179.368+/-0.031 $\chi^2$/NDF: 6491133.3/45

In: 241.320+/-0.035 $\chi^2$/NDF:4886471.8/42

Out: 212.122+/-0.031 $\chi^2$/NDF:10303831.1/50

All: 224.841+/-0.023 $\chi^2$/NDF: 15588309.6/93

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.096+/-0.071 $\chi^2$/NDF: 15.2/19

Left Out: 0.012+/-0.068 $\chi^2$/NDF:25.2/24

Right Out: -0.006+/-0.056 $\chi^2$/NDF: 41.2/25

Left In: -0.105+/-0.069 $\chi^2$/NDF:31.4/22

Left: -0.046+/-0.048 $\chi^2$/NDF: 58.1/47

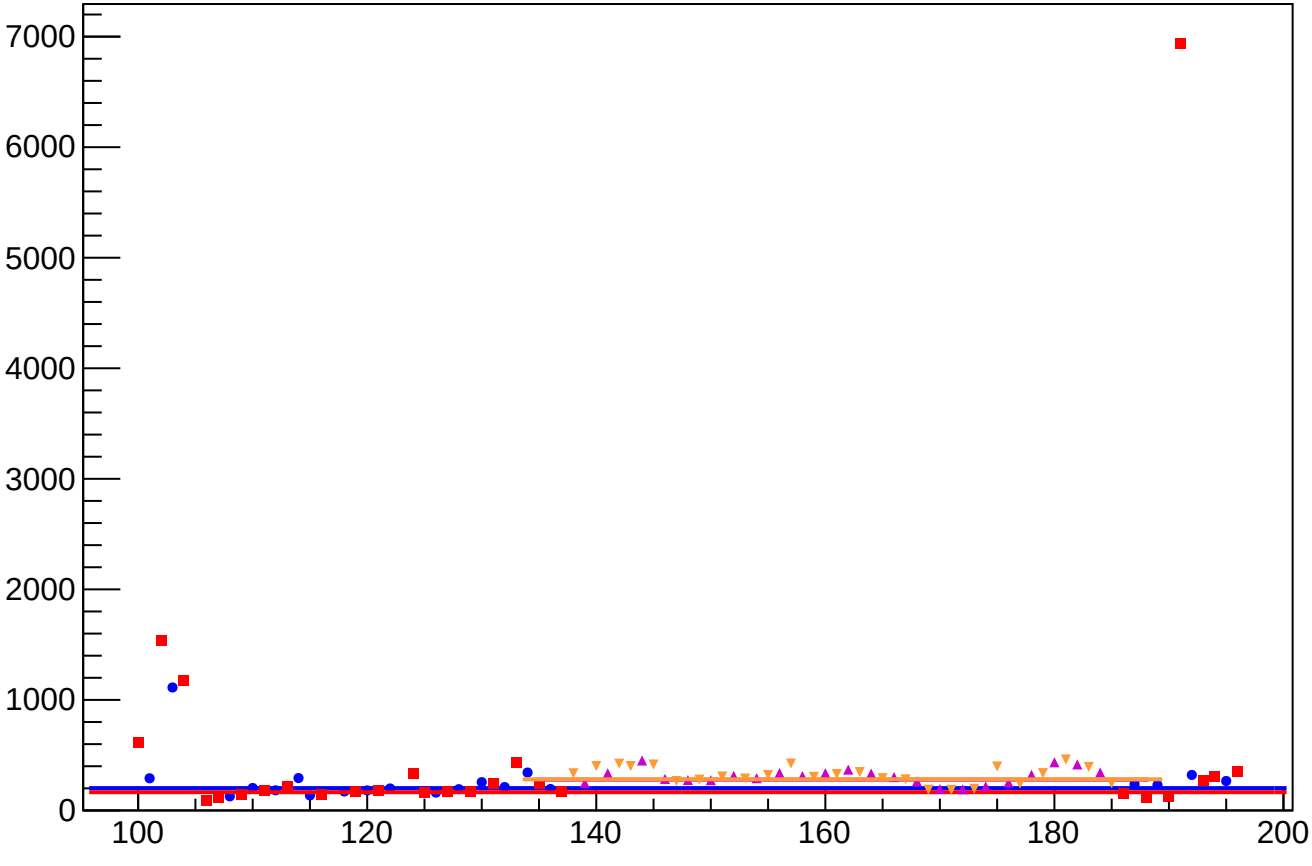
Right: -0.041+/-0.044 $\chi^2$/NDF: 57.4/45

In: -0.101+/-0.049 $\chi^2$/NDF:46.7/42

Out: 0.001+/-0.043 $\chi^2$/NDF:66.4/50

All: -0.043+/-0.032 $\chi^2$/NDF: 115.6/93

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 202.120+/-0.050 $\chi^2$/NDF: 1884006.4/19

Left Out: 281.820+/-0.048 $\chi^2$/NDF:2520889.0/24

Right Out: 165.066+/-0.040 $\chi^2$/NDF: 4268097.1/25

Left In: 278.412+/-0.049 $\chi^2$/NDF:1799730.1/22

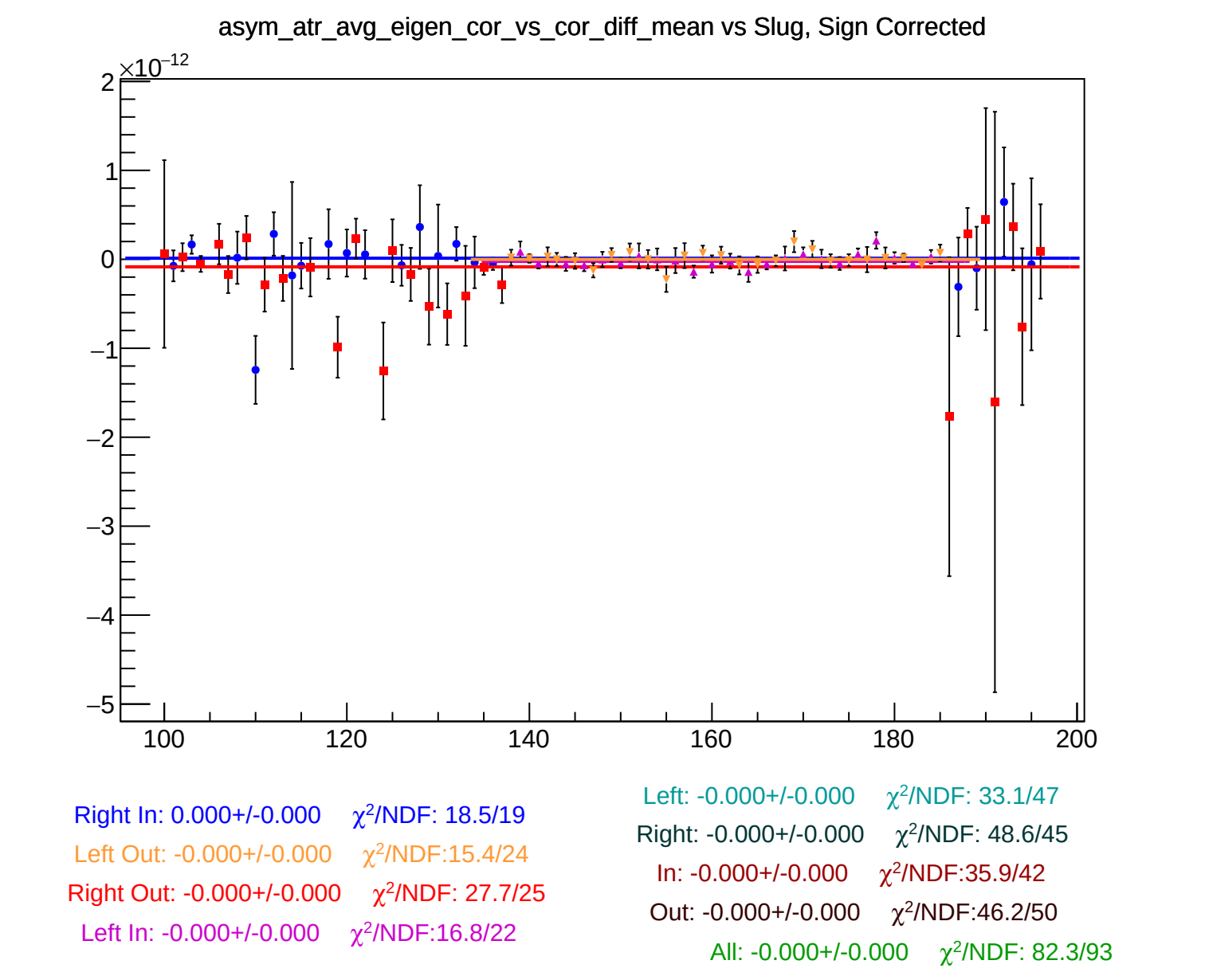
Left: 280.130+/-0.034 $\chi^2$/NDF: 4323107.7/47

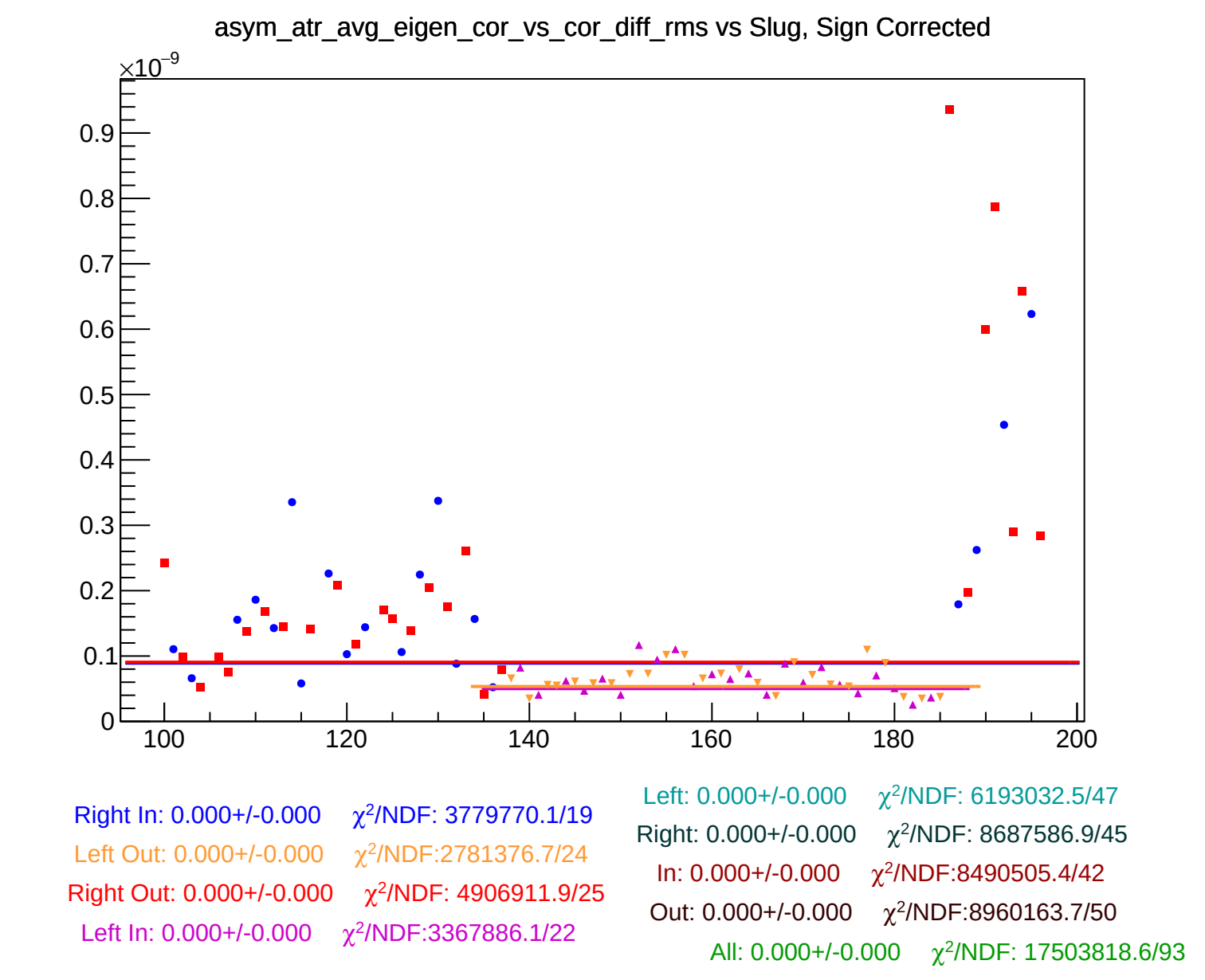
Right: 179.368+/-0.031 $\chi^2$/NDF: 6491133.3/45

In: 241.320+/-0.035 $\chi^2$/NDF:4886471.8/42

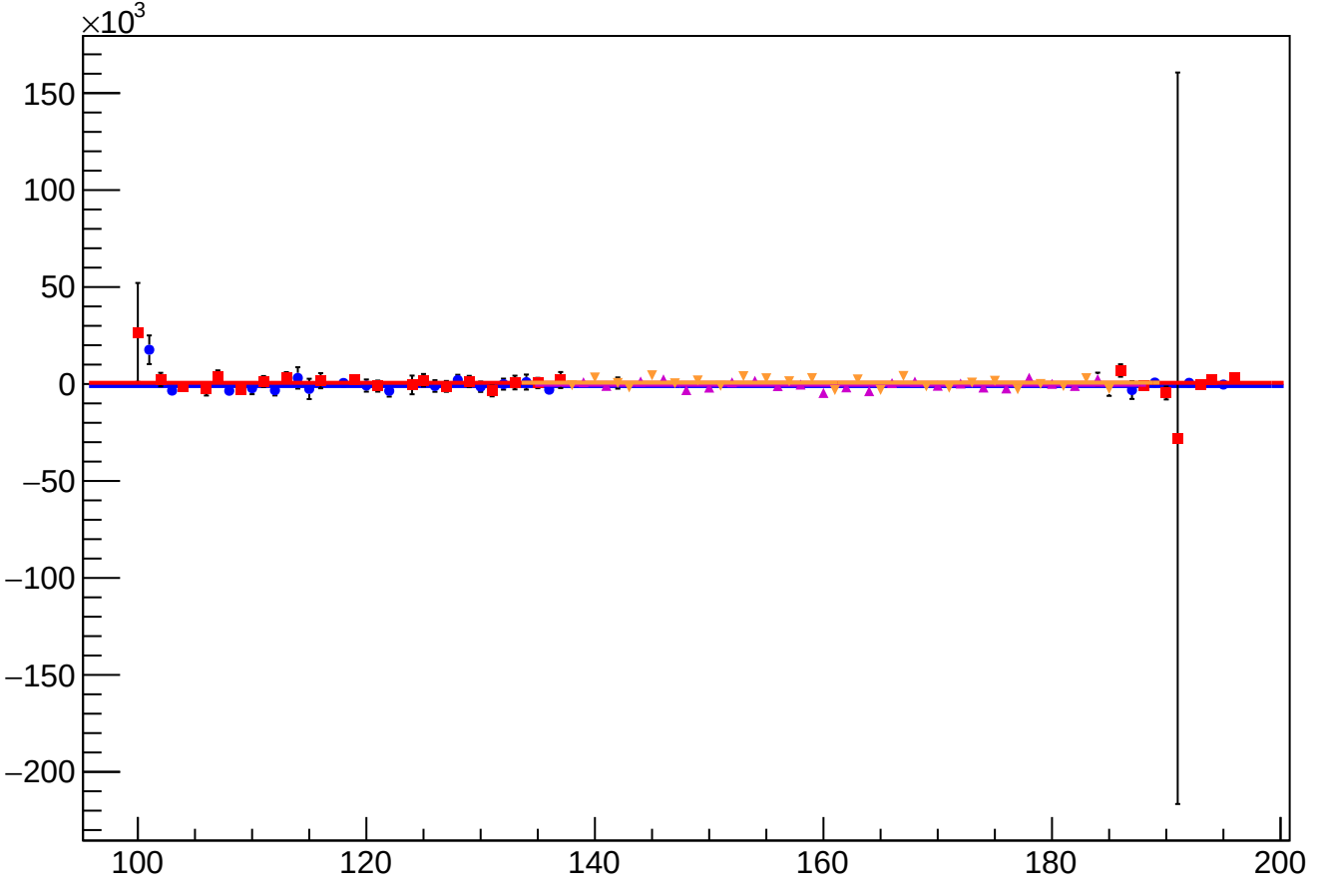
Out: 212.122+/-0.031 $\chi^2$/NDF:10303831.1/50

All: 224.841+/-0.023 $\chi^2$/NDF: 15588309.6/93


asym_atr_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 18.5/19
Left Out: -0.000+/-0.000 χ²/NDF:15.4/24
Right Out: -0.000+/-0.000 χ²/NDF: 27.7/25
Left In: -0.000+/-0.000 χ²/NDF:16.8/22
Left: -0.000+/-0.000 χ²/NDF: 33.1/47
Right: -0.000+/-0.000 χ²/NDF: 48.6/45
In: -0.000+/-0.000 χ²/NDF:35.9/42
Out: -0.000+/-0.000 χ²/NDF:46.2/50
All: -0.000+/-0.000 χ²/NDF: 82.3/93


asym_atr_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3779770.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2781376.7/24
Right Out: 0.000+/-0.000 χ²/NDF: 4906911.9/25
Left In: 0.000+/-0.000 χ²/NDF:3367886.1/22
Left: 0.000+/-0.000 χ²/NDF: 6193032.5/47
Right: 0.000+/-0.000 χ²/NDF: 8687586.9/45
In: 0.000+/-0.000 χ²/NDF:8490505.4/42
Out: 0.000+/-0.000 χ²/NDF:8960163.7/50
All: 0.000+/-0.000 χ²/NDF: 17503818.6/93

# reg_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -1052.314+/-622.352 $\chi^2$/NDF: 15.3/19

Left Out: 705.742+/-415.383 $\chi^2$/NDF:31.9/24

Right Out: 618.757+/-568.647 $\chi^2$/NDF: 19.6/25

Left In: -403.144+/-426.215 $\chi^2$/NDF:20.7/22

Left: 165.568+/-297.476 $\chi^2$/NDF: 56.1/47

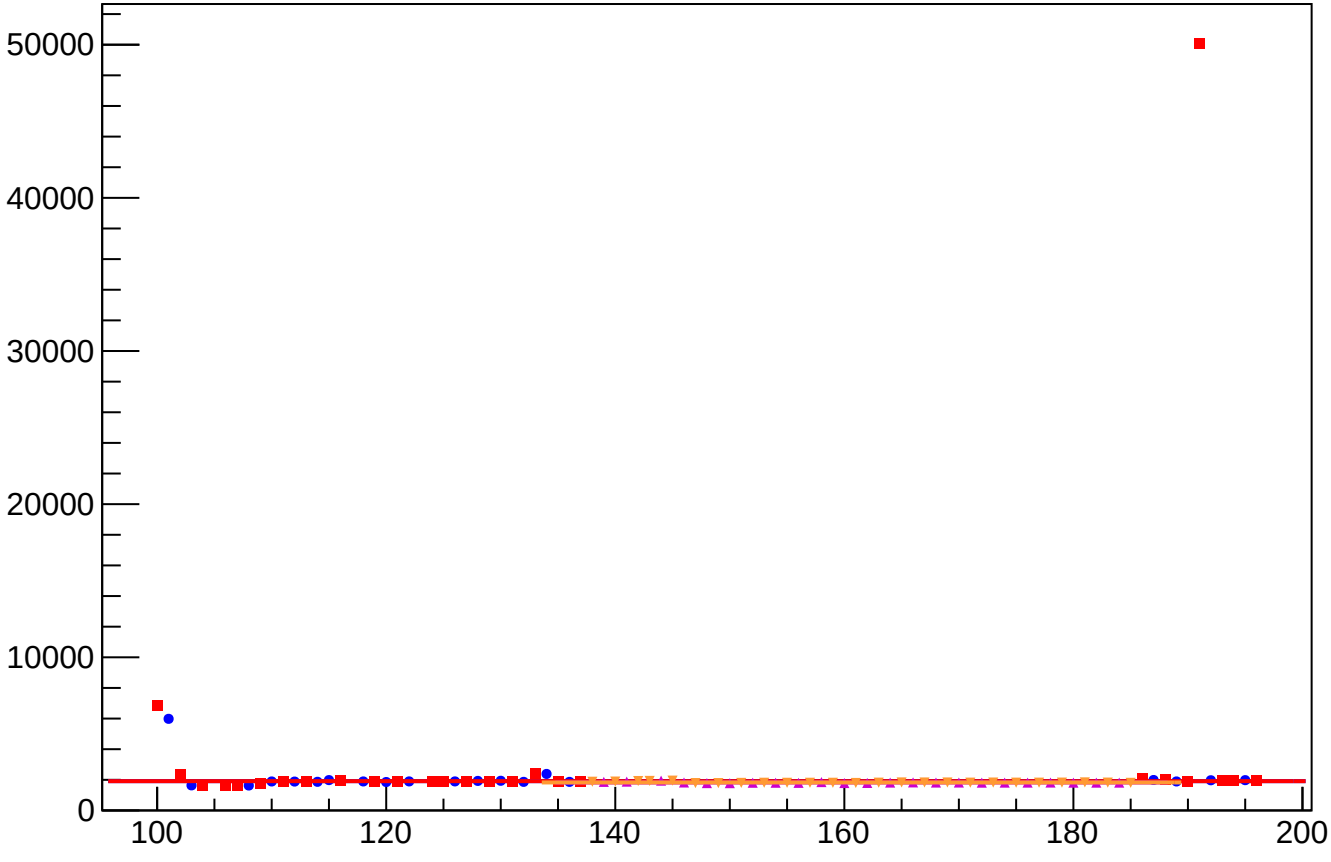
Right: -141.579+/-419.799 $\chi^2$/NDF: 38.8/45

In: -610.405+/-351.654 $\chi^2$/NDF:36.8/42

Out: 675.477+/-335.424 $\chi^2$/NDF:51.5/50

All: 62.895+/-242.715 $\chi^2$/NDF: 95.3/93

# reg_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1914.223+/-0.440 $\chi^2$/NDF: 702615.0/19

Left Out: 1828.243+/-0.294 $\chi^2$/NDF:19329.0/24

Right Out: 1913.070+/-0.401 $\chi^2$/NDF: 371137.7/25

Left In: 1825.165+/-0.301 $\chi^2$/NDF:13360.2/22

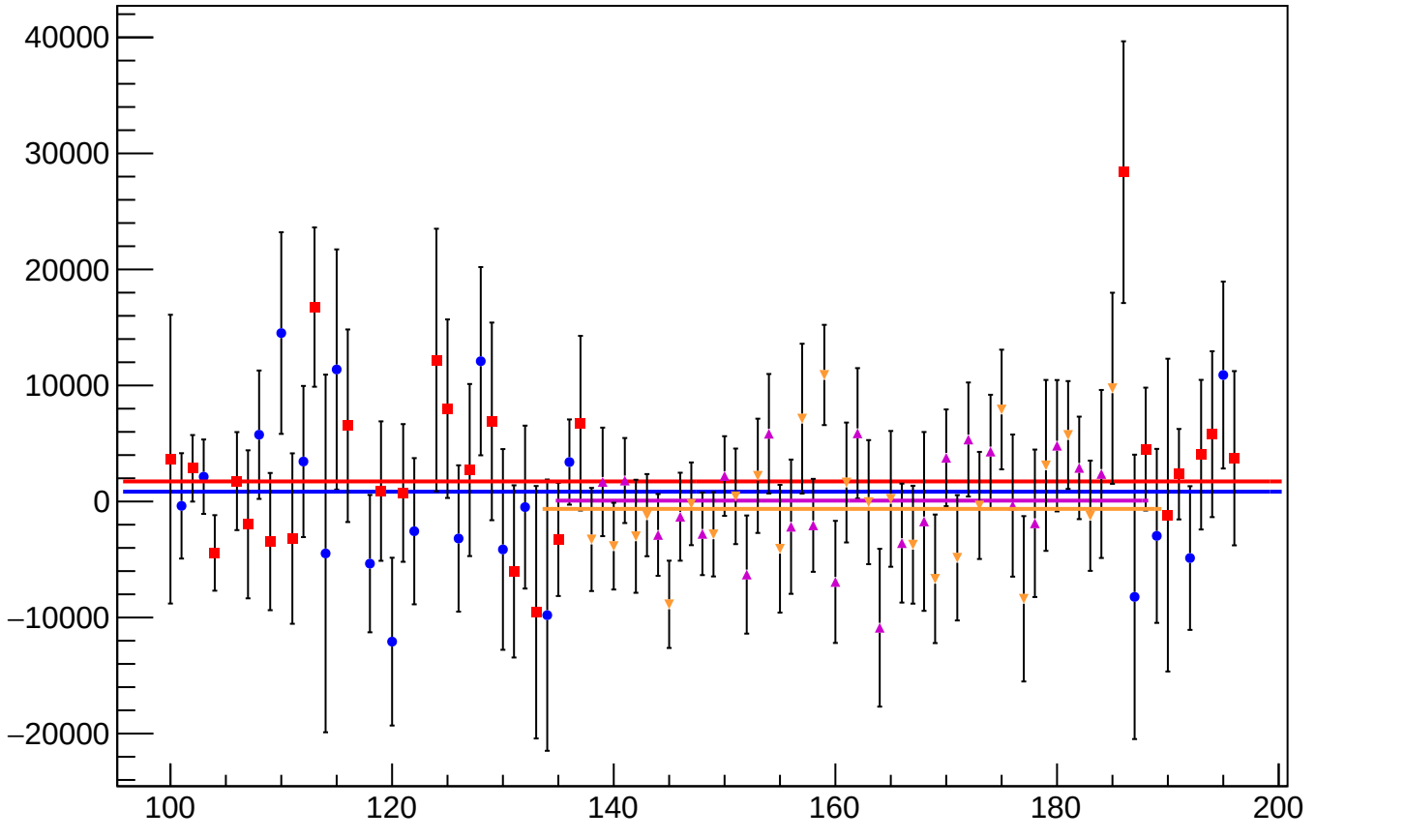
Left: 1826.743+/-0.210 $\chi^2$/NDF: 32742.7/47

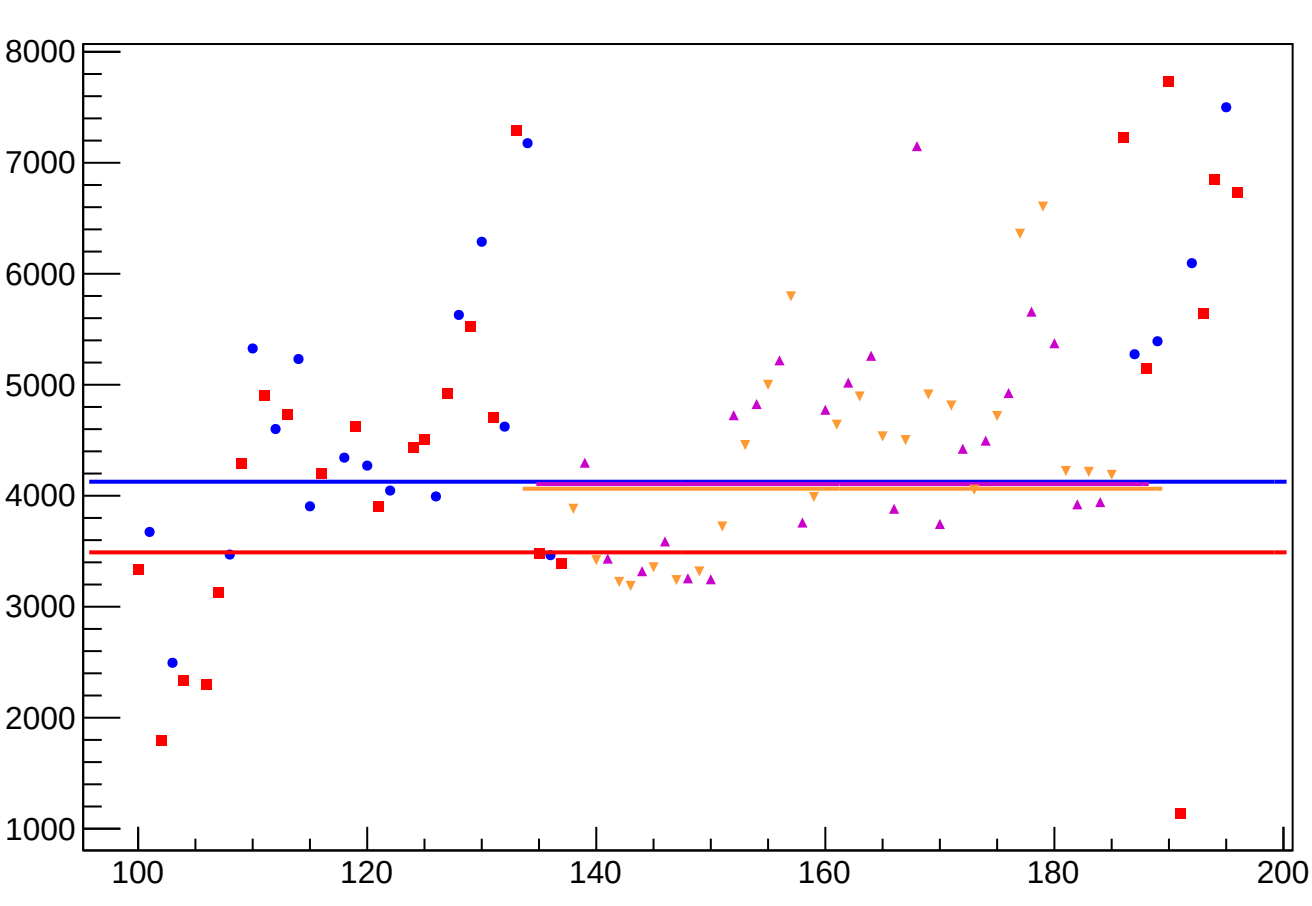
Right: 1913.593+/-0.296 $\chi^2$/NDF: 1073756.4/45

In: 1853.598+/-0.249 $\chi^2$/NDF:743854.3/42

Out: 1857.843+/-0.237 $\chi^2$/NDF:419571.3/50

All: 1855.822+/-0.172 $\chi^2$/NDF: 1163578.3/93


asym_atr_dd_reg_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 845.049+/-1382.857 χ²/NDF: 16.6/19
Left Out: -637.703+/-946.866 χ²/NDF:26.0/24
Right Out: 1729.452+/-1146.029 χ²/NDF: 22.5/25
Left In: 75.764+/-980.243 χ²/NDF:15.4/22
Left: -293.323+/-681.030 χ²/NDF: 41.7/47
Right: 1369.354+/-882.394 χ²/NDF: 39.4/45
In: 333.037+/-799.706 χ²/NDF:32.3/42
Out: 322.634+/-729.952 χ²/NDF:51.0/50
All: 327.362+/-539.131 χ²/NDF: 83.3/93




Right In: 4126.344+/-0.978 $\chi^2$/NDF: 1662519.7/19

Left Out: 4063.108+/-0.670 $\chi^2$/NDF:1405036.2/24

Right Out: 3489.809+/-0.810 $\chi^2$/NDF: 4303052.5/25

Left In: 4105.057+/-0.693 $\chi^2$/NDF:1359493.1/22

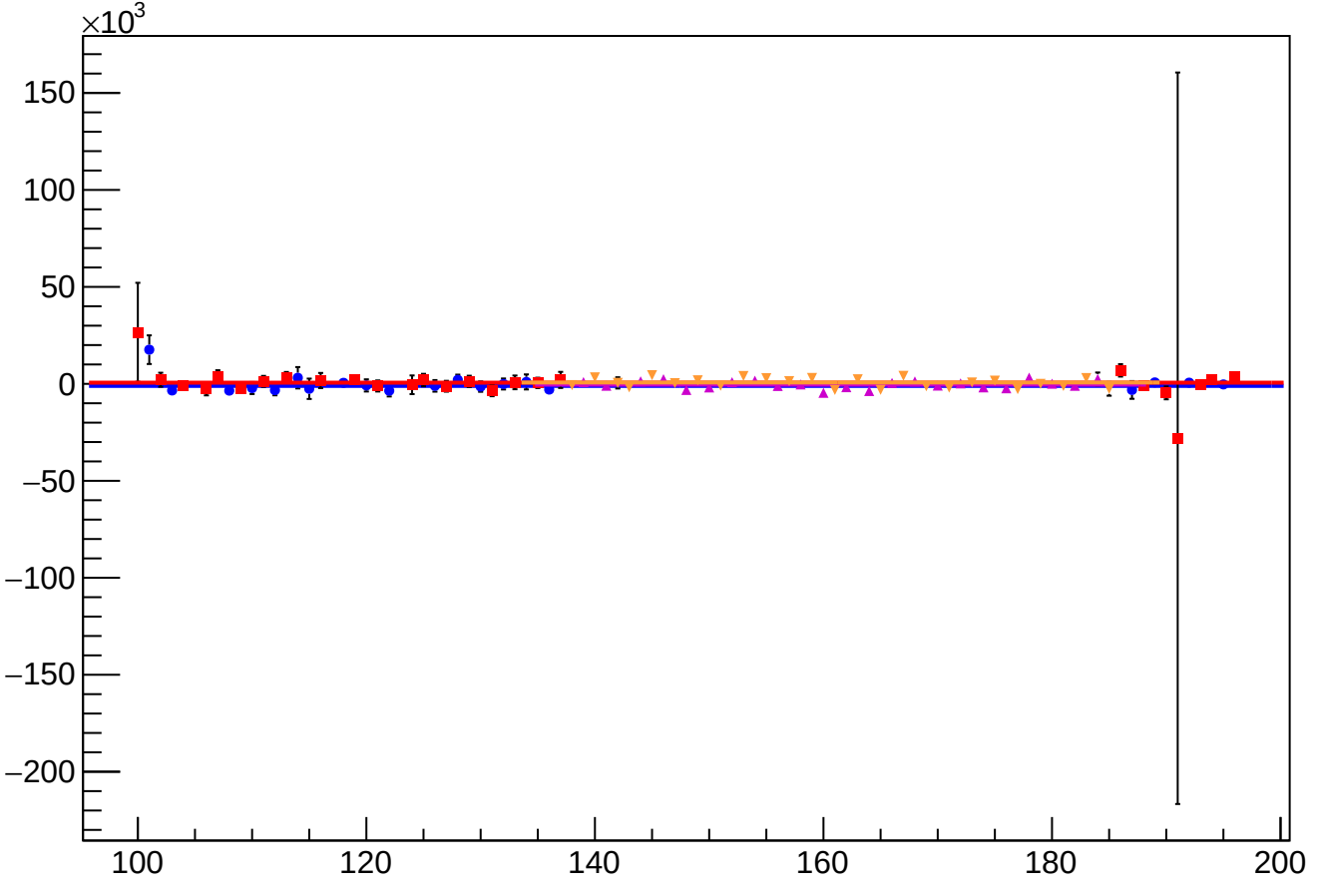
Left: 4083.357+/-0.482 $\chi^2$/NDF: 2766424.2/47

Right: 3748.984+/-0.624 $\chi^2$/NDF: 6216792.6/45

In: 4112.176+/-0.565 $\chi^2$/NDF:3022328.3/42

Out: 3830.525+/-0.516 $\chi^2$/NDF:6005538.3/50

All: 3958.534+/-0.381 $\chi^2$/NDF: 9163196.7/93




Right In: -1052.593+/-622.352 $\chi^2$/NDF: 15.3/19

Left Out: 705.801+/-415.383 $\chi^2$/NDF:31.9/24

Right Out: 612.407+/-569.149 $\chi^2$/NDF: 19.5/25

Left In: -402.981+/-426.215 $\chi^2$/NDF:20.8/22

Left: 165.678+/-297.476 $\chi^2$/NDF: 56.1/47

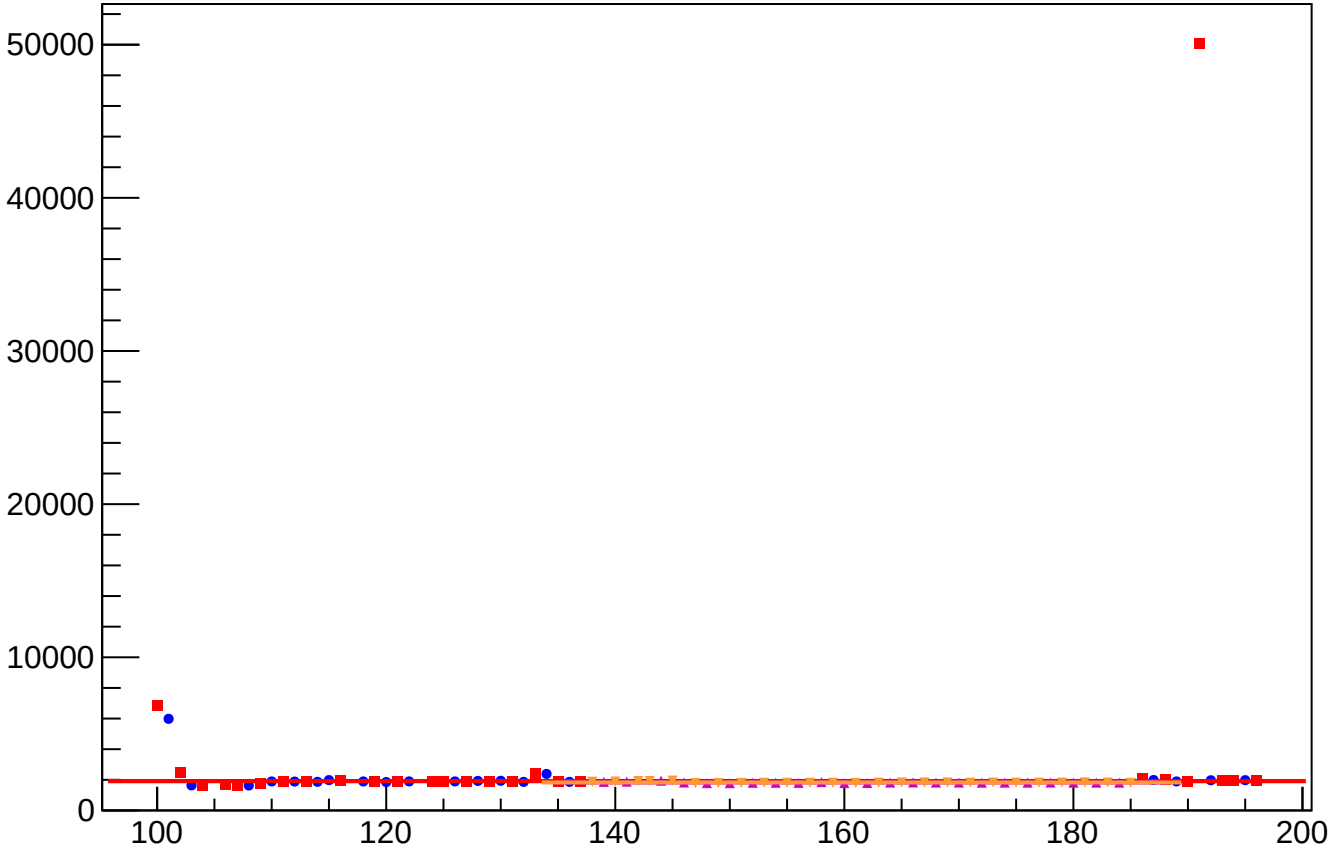
Right: -145.896+/-420.001 $\chi^2$/NDF: 38.7/45

In: -610.383+/-351.654 $\chi^2$/NDF:36.8/42

Out: 673.343+/-335.527 $\chi^2$/NDF:51.5/50

All: 61.591+/-242.754 $\chi^2$/NDF: 95.2/93

# cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1914.222+/-0.440 $\chi^2$/NDF: 702615.2/19

Left Out: 1828.243+/-0.294 $\chi^2$/NDF:19329.0/24

Right Out: 1917.658+/-0.402 $\chi^2$/NDF: 377934.5/25

Left In: 1825.165+/-0.301 $\chi^2$/NDF:13360.2/22

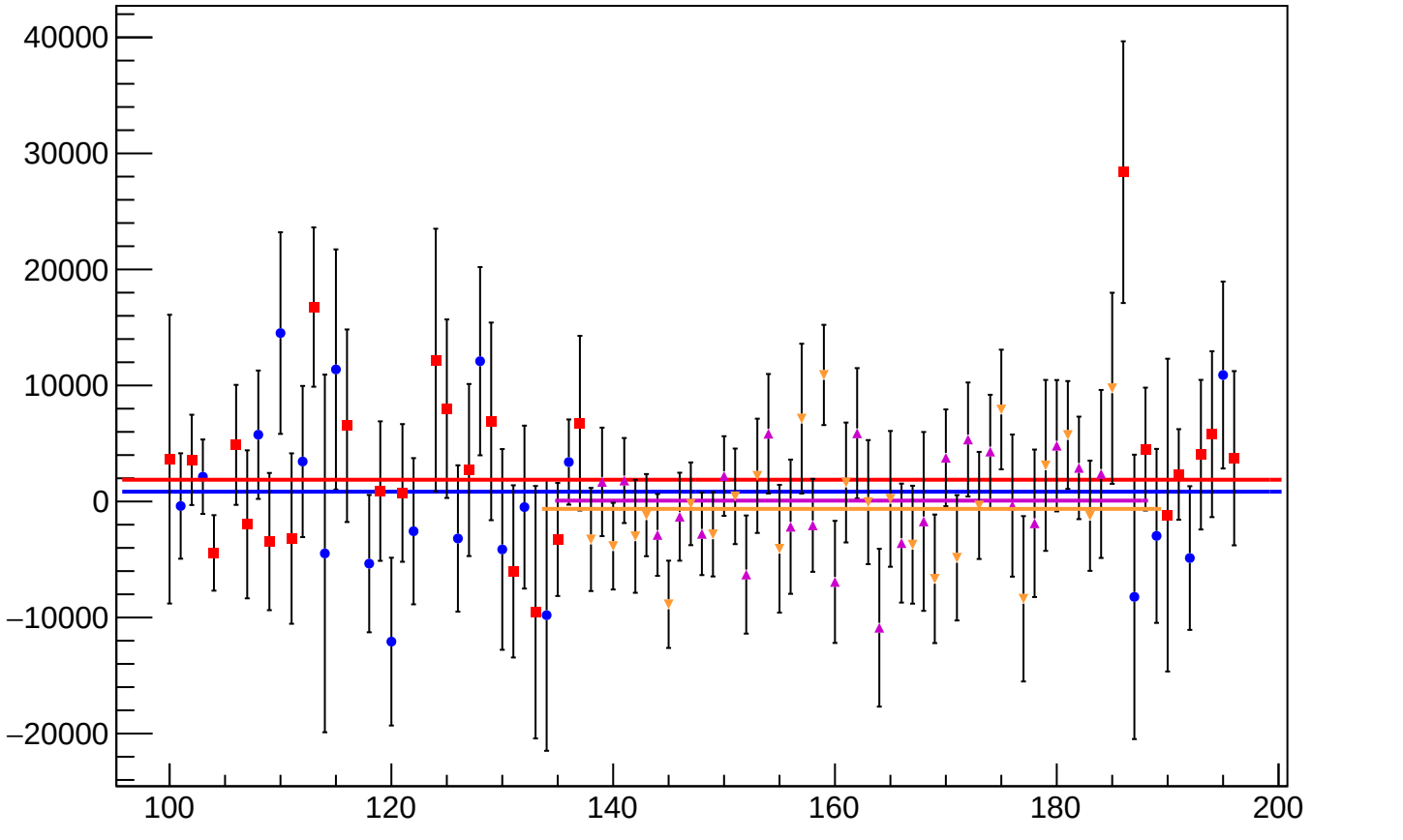
Left: 1826.743+/-0.210 $\chi^2$/NDF: 32742.7/47

Right: 1916.095+/-0.297 $\chi^2$/NDF: 1080582.9/45

In: 1853.598+/-0.249 $\chi^2$/NDF:743854.4/42

Out: 1859.359+/-0.237 $\chi^2$/NDF:429513.4/50

All: 1856.615+/-0.172 $\chi^2$/NDF: 1173648.9/93


asym_atr_dd_cor_correction_mean vs Slug, Sign Corrected
40000
30000
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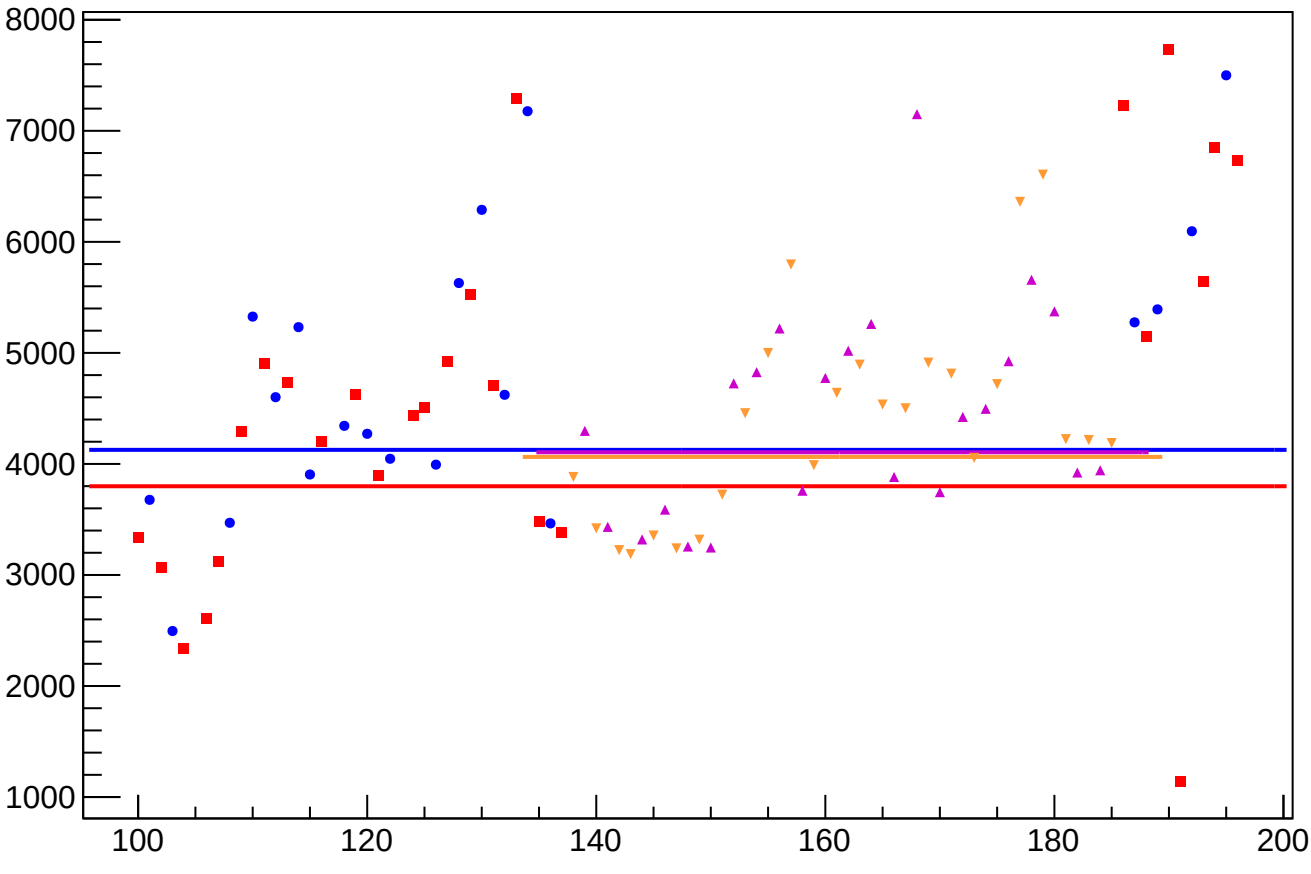
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 843.961+/-1382.998 χ²/NDF: 16.6/19
Left Out: -637.720+/-946.866 χ²/NDF:26.0/24
Right Out: 1875.030+/-1206.548 χ²/NDF: 22.9/25
Left In: 75.789+/-980.241 χ²/NDF:15.4/22
Left: -293.319+/-681.029 χ²/NDF: 41.7/47
Right: 1429.427+/-909.184 χ²/NDF: 39.9/45
In: 332.654+/-799.732 χ²/NDF:32.3/42
Out: 319.984+/-744.879 χ²/NDF:51.6/50
All: 325.869+/-545.070 χ²/NDF: 83.9/93




Right In: 4126.864+/-0.978 $\chi^2$/NDF: 1661753.8/19

Left Out: 4063.106+/-0.670 $\chi^2$/NDF:1405030.5/24

Right Out: 3799.040+/-0.853 $\chi^2$/NDF: 3393395.6/25

Left In: 4105.050+/-0.693 $\chi^2$/NDF:1359501.9/22

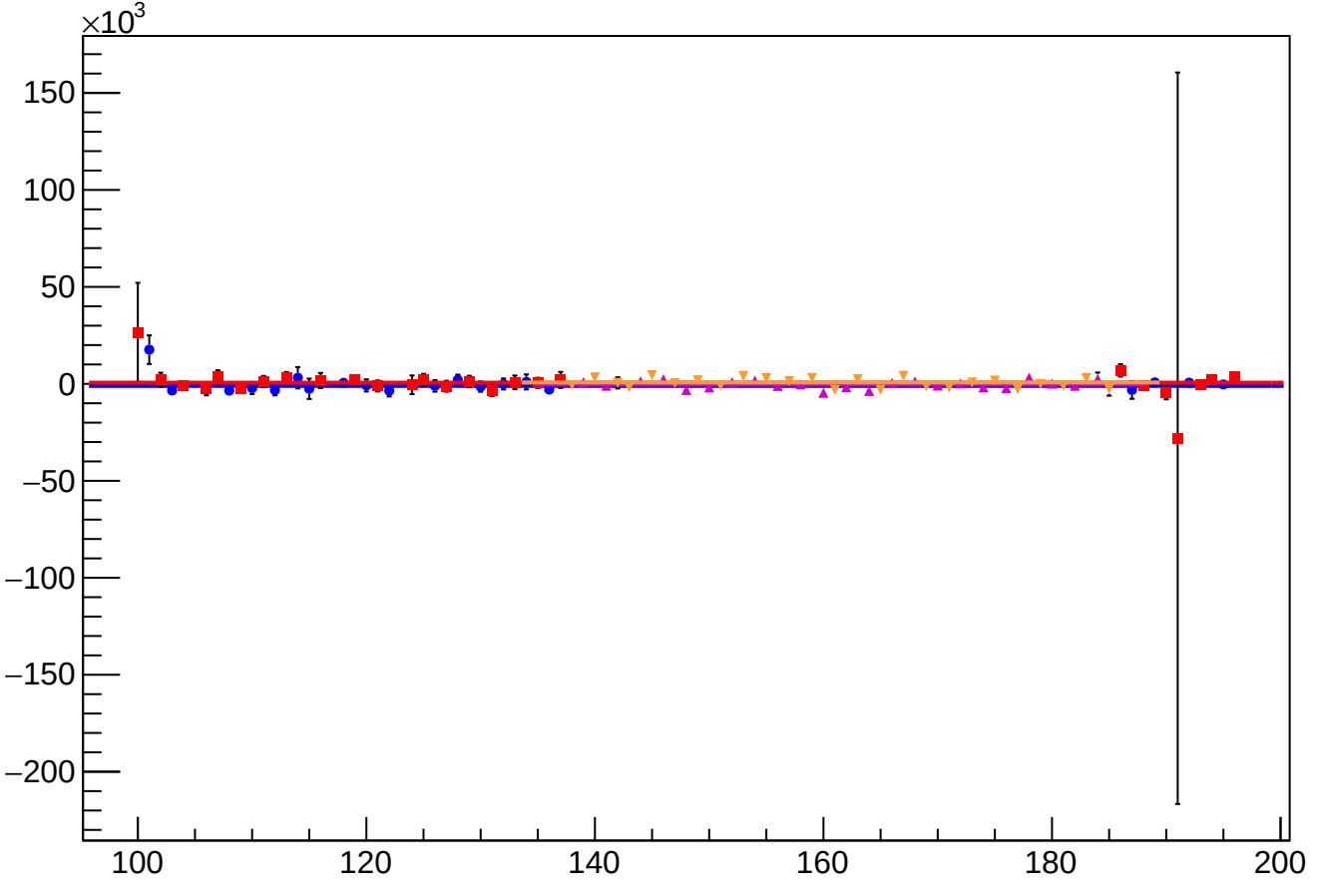
Left: 4083.351+/-0.482 $\chi^2$/NDF: 2766426.7/47

Right: 3940.717+/-0.643 $\chi^2$/NDF: 5118958.5/45

In: 4112.344+/-0.565 $\chi^2$/NDF:3021586.9/42

Out: 3962.460+/-0.527 $\chi^2$/NDF:4857713.2/50

All: 4032.086+/-0.385 $\chi^2$/NDF: 7916917.1/93




Right In: -1052.593+/-622.352 $\chi^2$/NDF: 15.3/19

Left Out: 705.801+/-415.383 $\chi^2$/NDF:31.9/24

Right Out: 612.407+/-569.149 $\chi^2$/NDF: 19.5/25

Left In: -402.981+/-426.215 $\chi^2$/NDF:20.8/22

Left: 165.678+/-297.476 $\chi^2$/NDF: 56.1/47

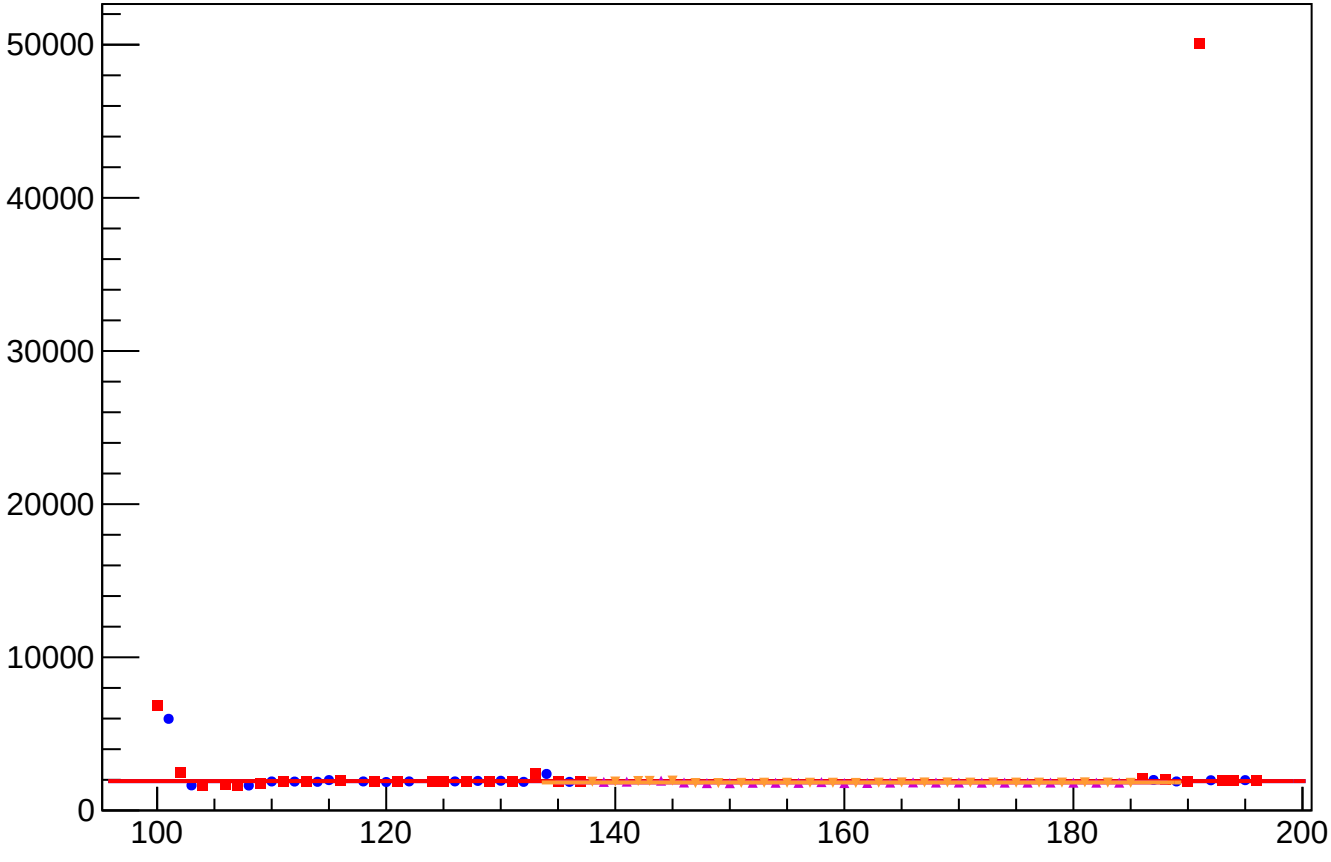
Right: -145.896+/-420.001 $\chi^2$/NDF: 38.7/45

In: -610.383+/-351.654 $\chi^2$/NDF:36.8/42

Out: 673.343+/-335.527 $\chi^2$/NDF:51.5/50

All: 61.591+/-242.754 $\chi^2$/NDF: 95.2/93

# eigen_cor_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1914.222+/-0.440 $\chi^2$/NDF: 702615.2/19

Left Out: 1828.243+/-0.294 $\chi^2$/NDF:19329.0/24

Right Out: 1917.658+/-0.402 $\chi^2$/NDF: 377934.5/25

Left In: 1825.165+/-0.301 $\chi^2$/NDF:13360.2/22

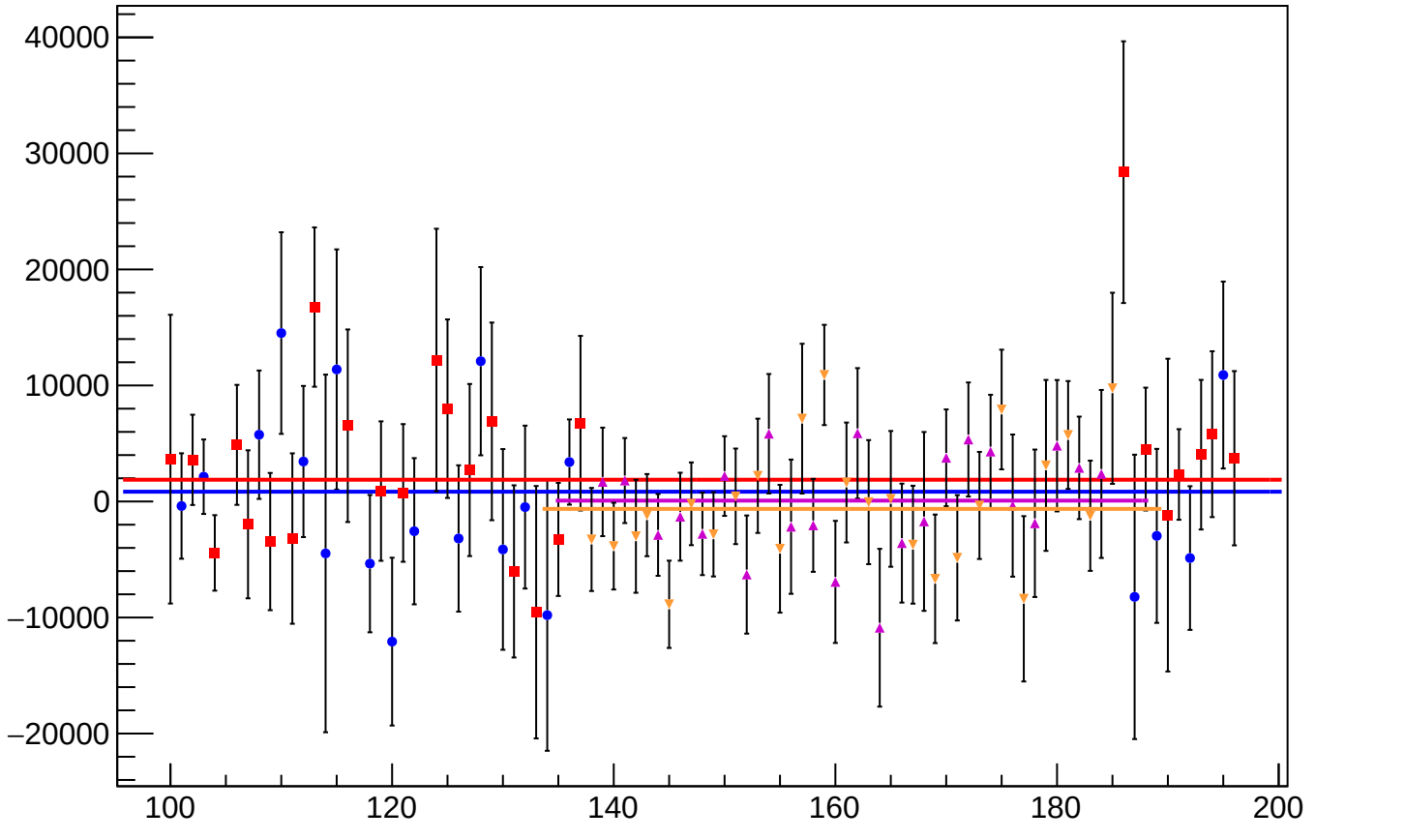
Left: 1826.743+/-0.210 $\chi^2$/NDF: 32742.7/47

Right: 1916.095+/-0.297 $\chi^2$/NDF: 1080582.9/45

In: 1853.598+/-0.249 $\chi^2$/NDF:743854.4/42

Out: 1859.359+/-0.237 $\chi^2$/NDF:429513.4/50

All: 1856.615+/-0.172 $\chi^2$/NDF: 1173648.9/93


asym_atr_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
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120
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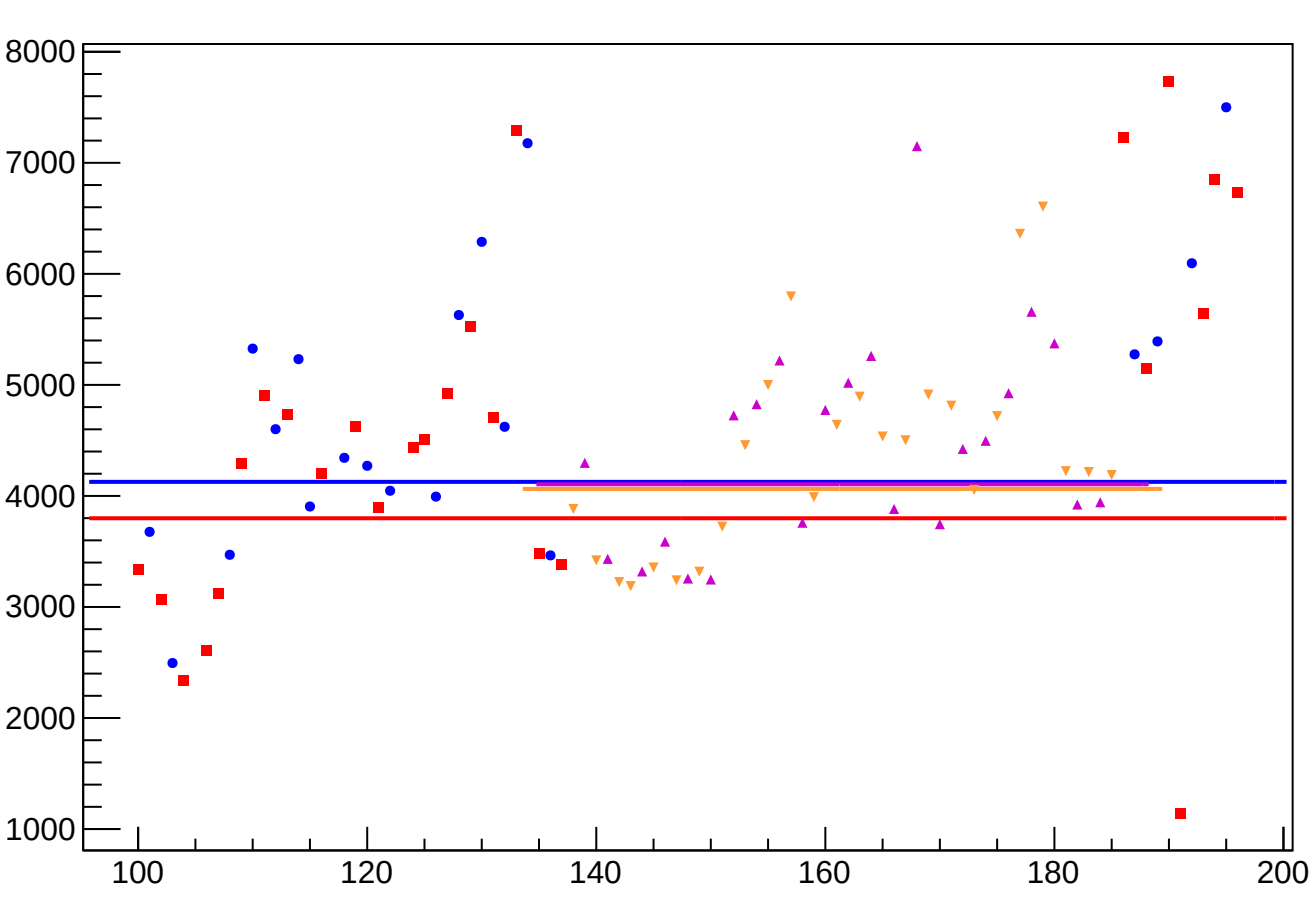
Right In: 843.961+/-1382.998 χ²/NDF: 16.6/19
Left Out: -637.720+/-946.866 χ²/NDF:26.0/24
Right Out: 1875.030+/-1206.548 χ²/NDF: 22.9/25
Left In: 75.789+/-980.241 χ²/NDF:15.4/22
Left: -293.319+/-681.029 χ²/NDF: 41.7/47
Right: 1429.427+/-909.184 χ²/NDF: 39.9/45
In: 332.654+/-799.732 χ²/NDF:32.3/42
Out: 319.984+/-744.879 χ²/NDF:51.6/50
All: 325.869+/-545.070 χ²/NDF: 83.9/93




Right In: 4126.864+/-0.978 $\chi^2$/NDF: 1661753.8/19

Left Out: 4063.106+/-0.670 $\chi^2$/NDF:1405030.5/24

Right Out: 3799.040+/-0.853 $\chi^2$/NDF: 3393395.6/25

Left In: 4105.050+/-0.693 $\chi^2$/NDF:1359501.9/22

Left: 4083.351+/-0.482 $\chi^2$/NDF: 2766426.7/47

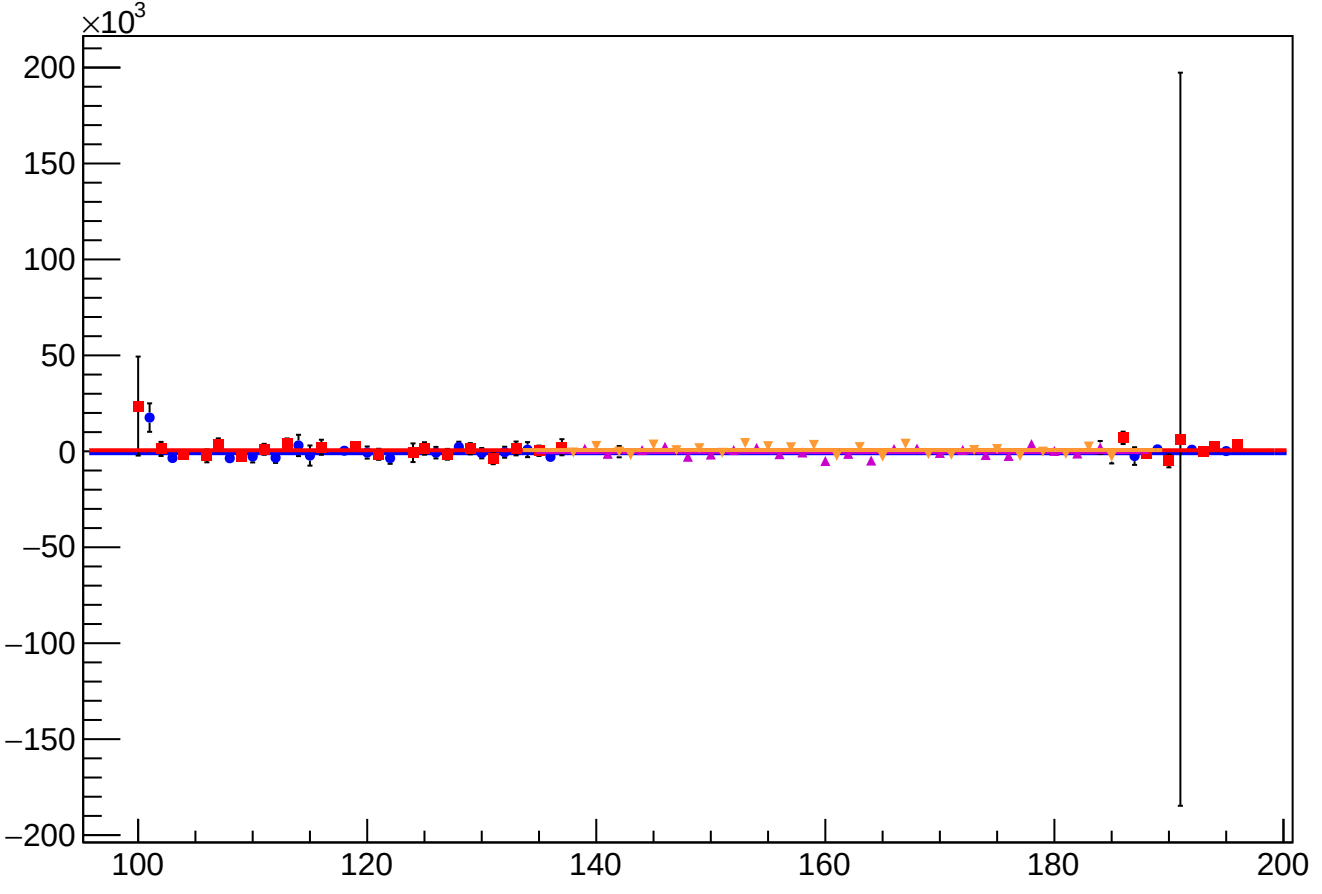
Right: 3940.717+/-0.643 $\chi^2$/NDF: 5118958.5/45

In: 4112.344+/-0.565 $\chi^2$/NDF:3021586.9/42

Out: 3962.460+/-0.527 $\chi^2$/NDF:4857713.2/50

All: 4032.086+/-0.385 $\chi^2$/NDF: 7916917.1/93

# dit_asym_atr_dd_mean vs Slug, Sign Corrected




Right In: -977.115+/-626.994 $\chi^2$/NDF: 15.8/19

Left Out: 657.616+/-423.063 $\chi^2$/NDF:27.0/24

Right Out: 557.991+/-573.522 $\chi^2$/NDF: 21.0/25

Left In: -410.869+/-433.856 $\chi^2$/NDF:23.6/22

Left: 136.829+/-302.895 $\chi^2$/NDF: 53.8/47

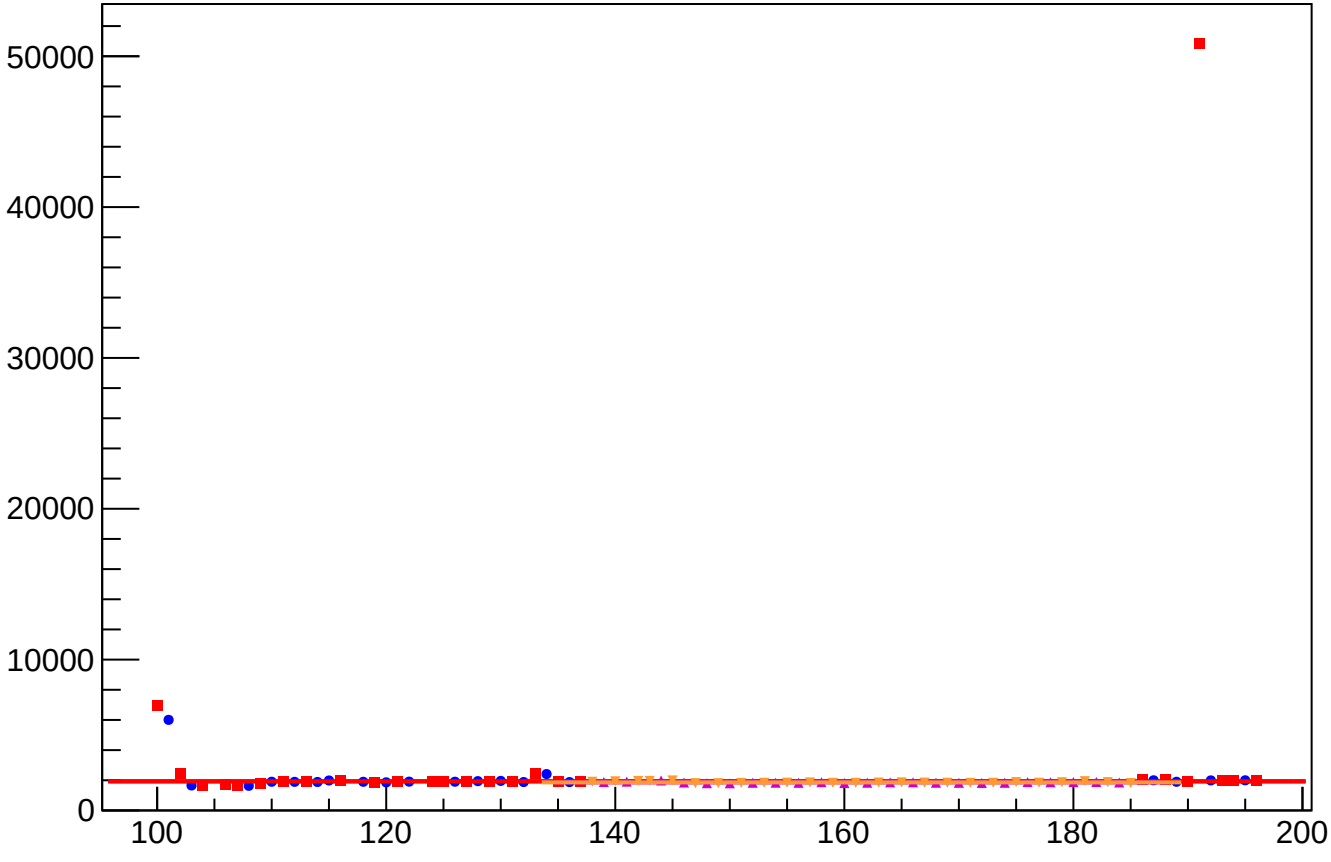
Right: -141.323+/-423.185 $\chi^2$/NDF: 40.1/45

In: -594.209+/-356.771 $\chi^2$/NDF:40.0/42

Out: 622.509+/-340.457 $\chi^2$/NDF:48.1/50

All: 42.604+/-246.305 $\chi^2$/NDF: 94.2/93

# dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1928.507+/-0.443 $\chi^2$/NDF: 702031.5/19

Left Out: 1861.731+/-0.299 $\chi^2$/NDF:26014.9/24

Right Out: 1932.250+/-0.405 $\chi^2$/NDF: 381811.0/25

Left In: 1857.661+/-0.307 $\chi^2$/NDF:16381.0/22

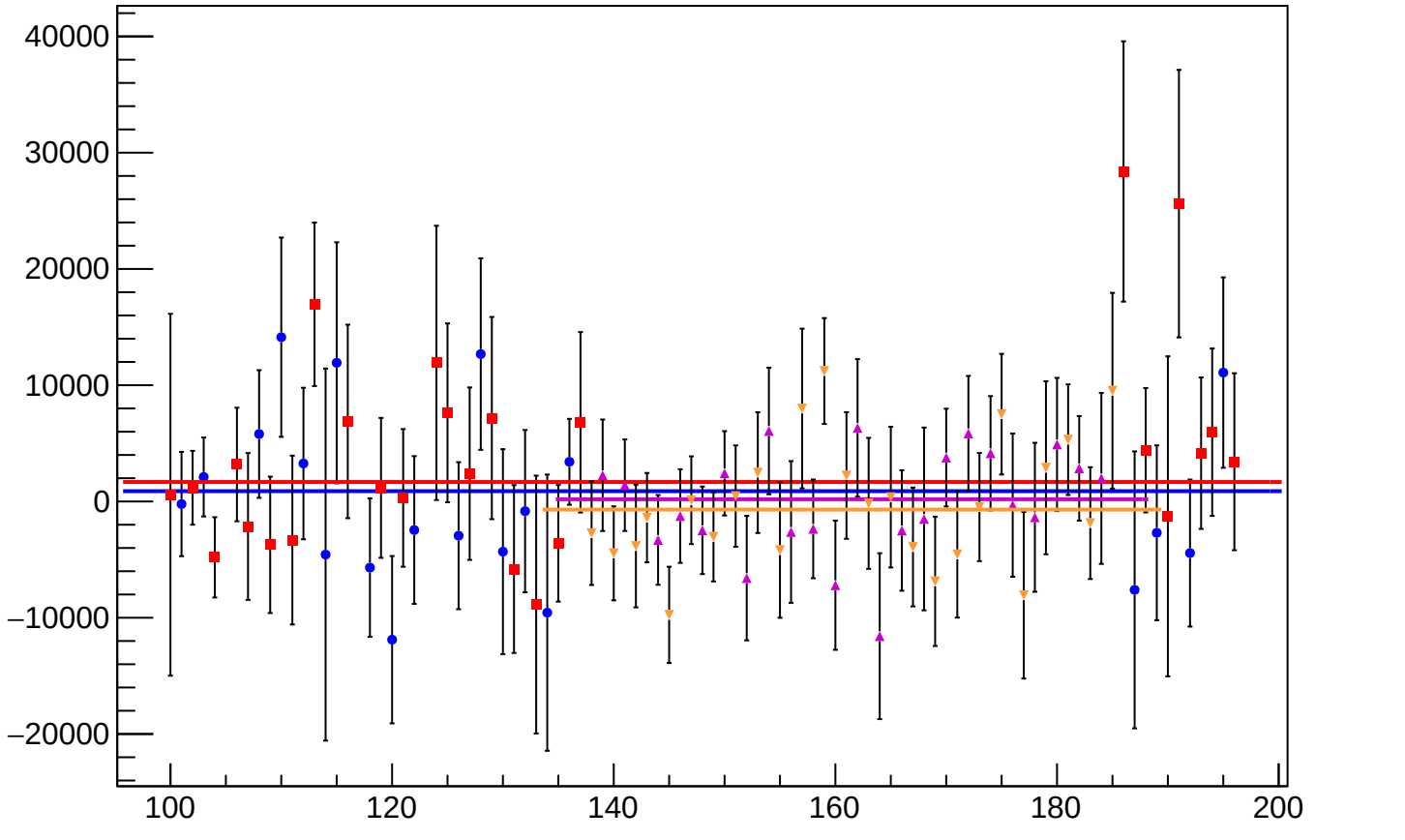
Left: 1859.747+/-0.214 $\chi^2$/NDF: 42486.2/47

Right: 1930.546+/-0.299 $\chi^2$/NDF: 1083881.4/45

In: 1880.599+/-0.252 $\chi^2$/NDF:735679.9/42

Out: 1886.604+/-0.241 $\chi^2$/NDF:427425.9/50

All: 1883.743+/-0.174 $\chi^2$/NDF: 1163402.2/93




Right In: 886.239+/-1399.614 $\chi^2$/NDF: 16.5/19

Left Out: -698.287+/-990.035 $\chi^2$/NDF:25.3/24

Right Out: 1676.290+/-1242.177 $\chi^2$/NDF: 26.7/25

Left In: 192.486+/-1022.469 $\chi^2$/NDF:15.2/22

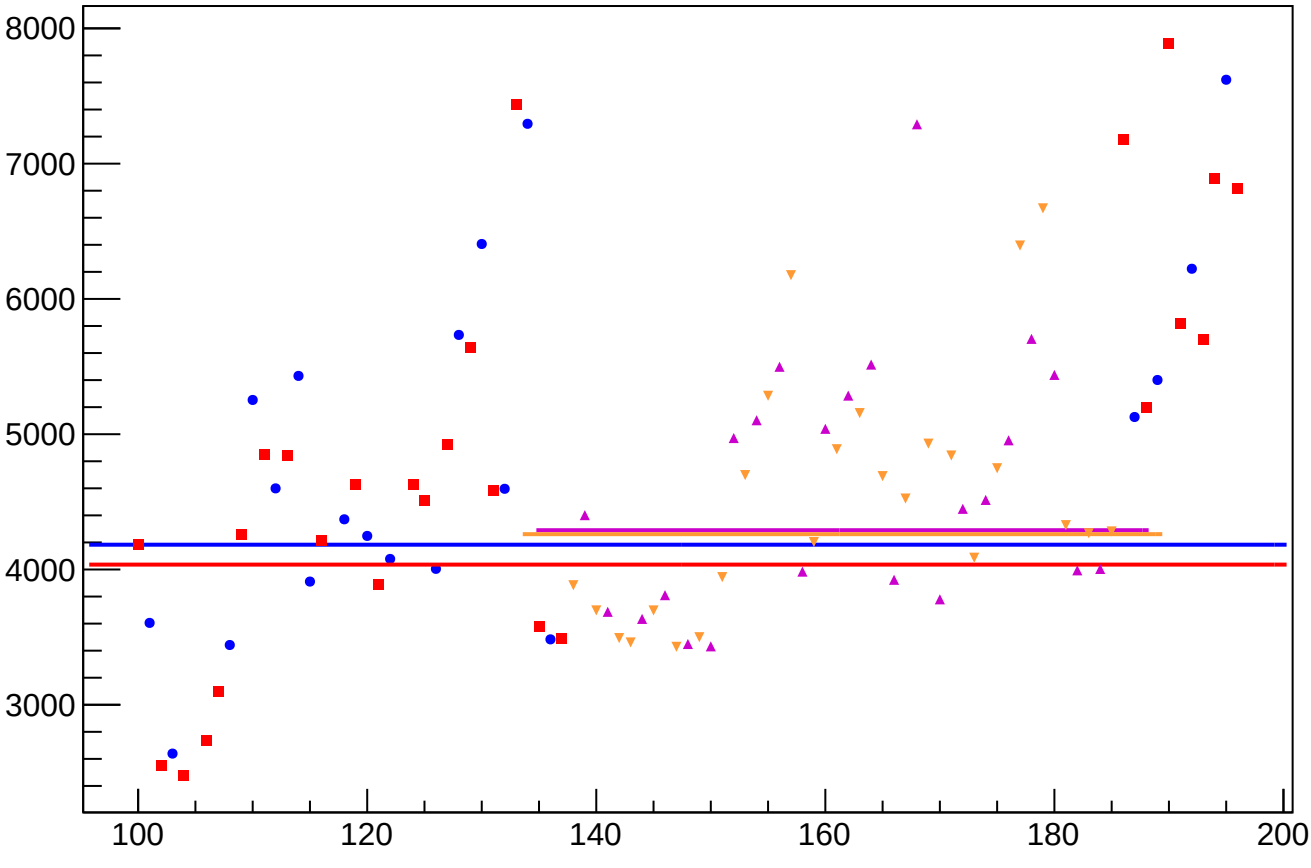
Left: -267.253+/-711.250 $\chi^2$/NDF: 40.9/47

Right: 1328.181+/-929.049 $\chi^2$/NDF: 43.3/45

In: 433.894+/-825.624 $\chi^2$/NDF:31.8/42

Out: 224.158+/-774.213 $\chi^2$/NDF:54.2/50

All: 322.293+/-564.752 $\chi^2$/NDF: 86.1/93




Right In: 4183.292+/-0.990 $\chi^2$/NDF: 1580050.8/19

Left Out: 4261.124+/-0.700 $\chi^2$/NDF:1190561.4/24

Right Out: 4036.139+/-0.878 $\chi^2$/NDF: 2609668.2/25

Left In: 4290.398+/-0.723 $\chi^2$/NDF:1213964.7/22

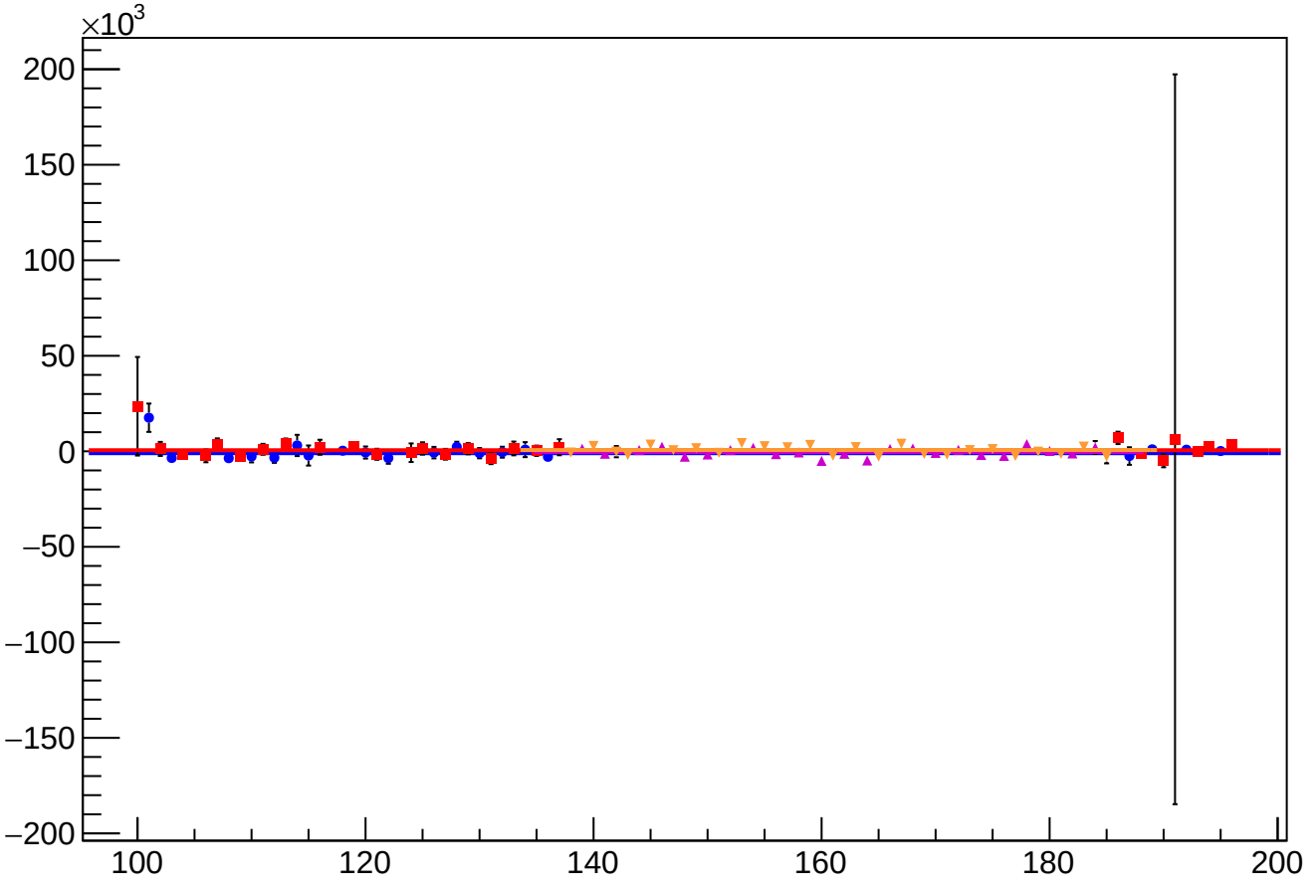
Left: 4275.289+/-0.503 $\chi^2$/NDF: 2405372.2/47

Right: 4100.977+/-0.657 $\chi^2$/NDF: 4202085.9/45

In: 4253.128+/-0.584 $\chi^2$/NDF:2801652.2/42

Out: 4173.725+/-0.547 $\chi^2$/NDF:3840352.4/50

All: 4210.877+/-0.399 $\chi^2$/NDF: 6651847.8/93




Right In: -977.118+/-626.994 $\chi^2$/NDF: 15.8/19

Left Out: 657.622+/-423.063 $\chi^2$/NDF:27.0/24

Right Out: 557.987+/-573.522 $\chi^2$/NDF: 21.0/25

Left In: -410.869+/-433.856 $\chi^2$/NDF:23.6/22

Left: 136.832+/-302.895 $\chi^2$/NDF: 53.8/47

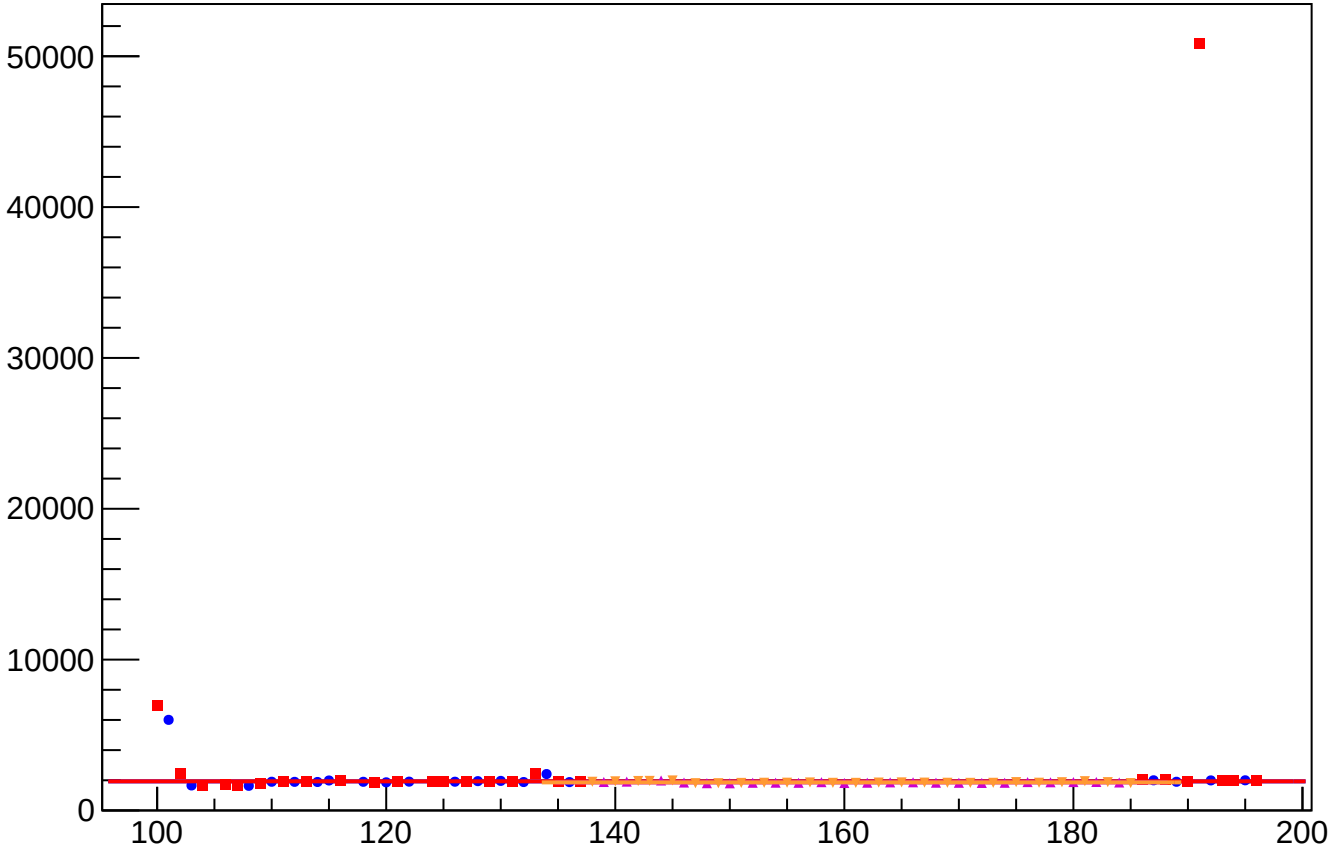
Right: -141.326+/-423.185 $\chi^2$/NDF: 40.1/45

In: -594.210+/-356.771 $\chi^2$/NDF:40.0/42

Out: 622.511+/-340.457 $\chi^2$/NDF:48.1/50

All: 42.605+/-246.305 $\chi^2$/NDF: 94.2/93

# eigen_dit_asym_atr_dd_rms vs Slug, Sign Corrected




Right In: 1928.507+/-0.443 $\chi^2$/NDF: 702031.4/19

Left Out: 1861.731+/-0.299 $\chi^2$/NDF:26014.9/24

Right Out: 1932.250+/-0.405 $\chi^2$/NDF: 381811.1/25

Left In: 1857.661+/-0.307 $\chi^2$/NDF:16380.9/22

Left: 1859.748+/-0.214 $\chi^2$/NDF: 42486.0/47

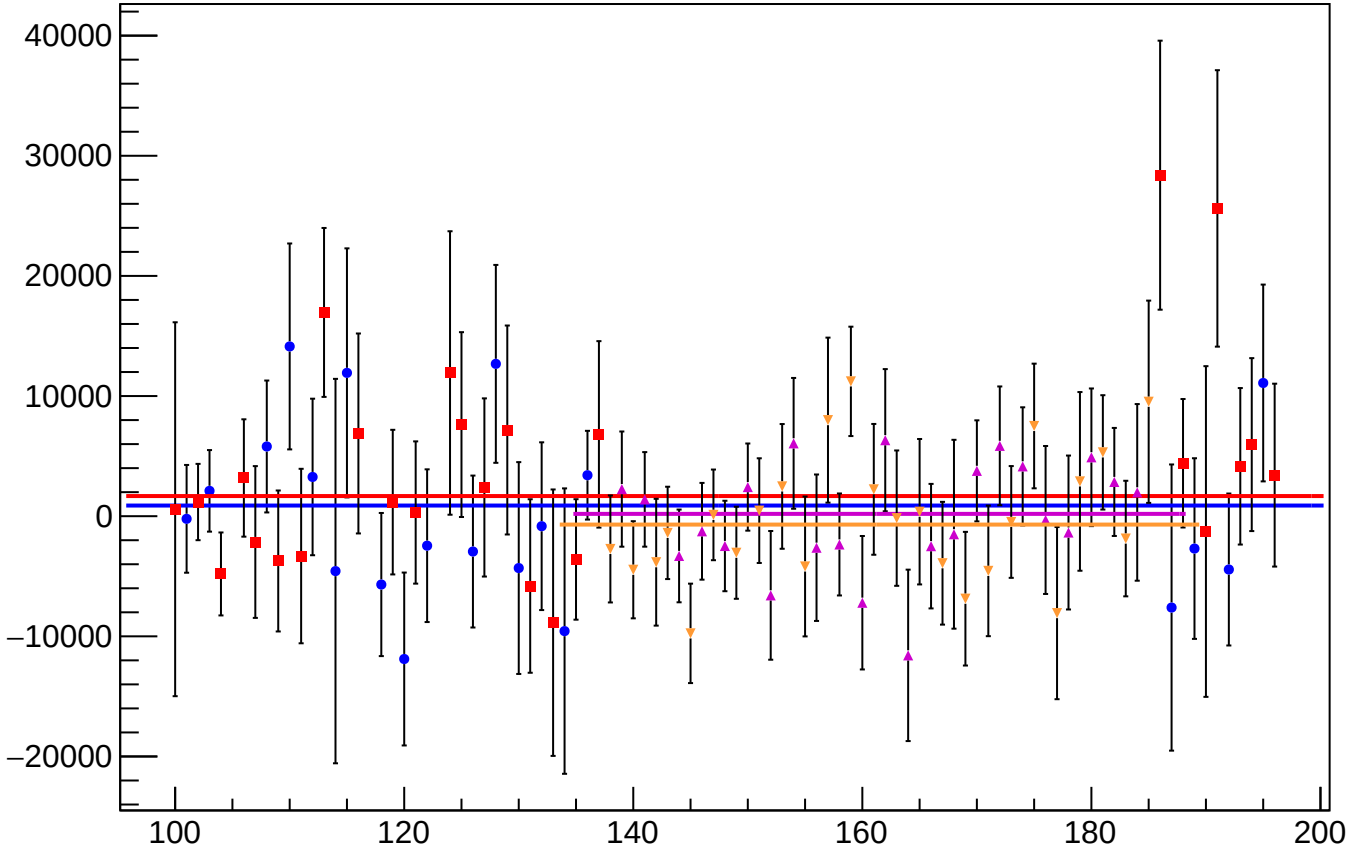
Right: 1930.546+/-0.299 $\chi^2$/NDF: 1083881.4/45

In: 1880.600+/-0.252 $\chi^2$/NDF:735679.3/42

Out: 1886.604+/-0.241 $\chi^2$/NDF:427425.6/50

All: 1883.743+/-0.174 $\chi^2$/NDF: 1163401.5/93

asym_atr_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 886.225+/-1399.613 $\chi^2$/NDF: 16.5/19

Left Out: -698.285+/-990.036 $\chi^2$/NDF:25.3/24

Right Out: 1676.288+/-1242.176 $\chi^2$/NDF: 26.7/25

Left In: 192.488+/-1022.471 $\chi^2$/NDF:15.2/22

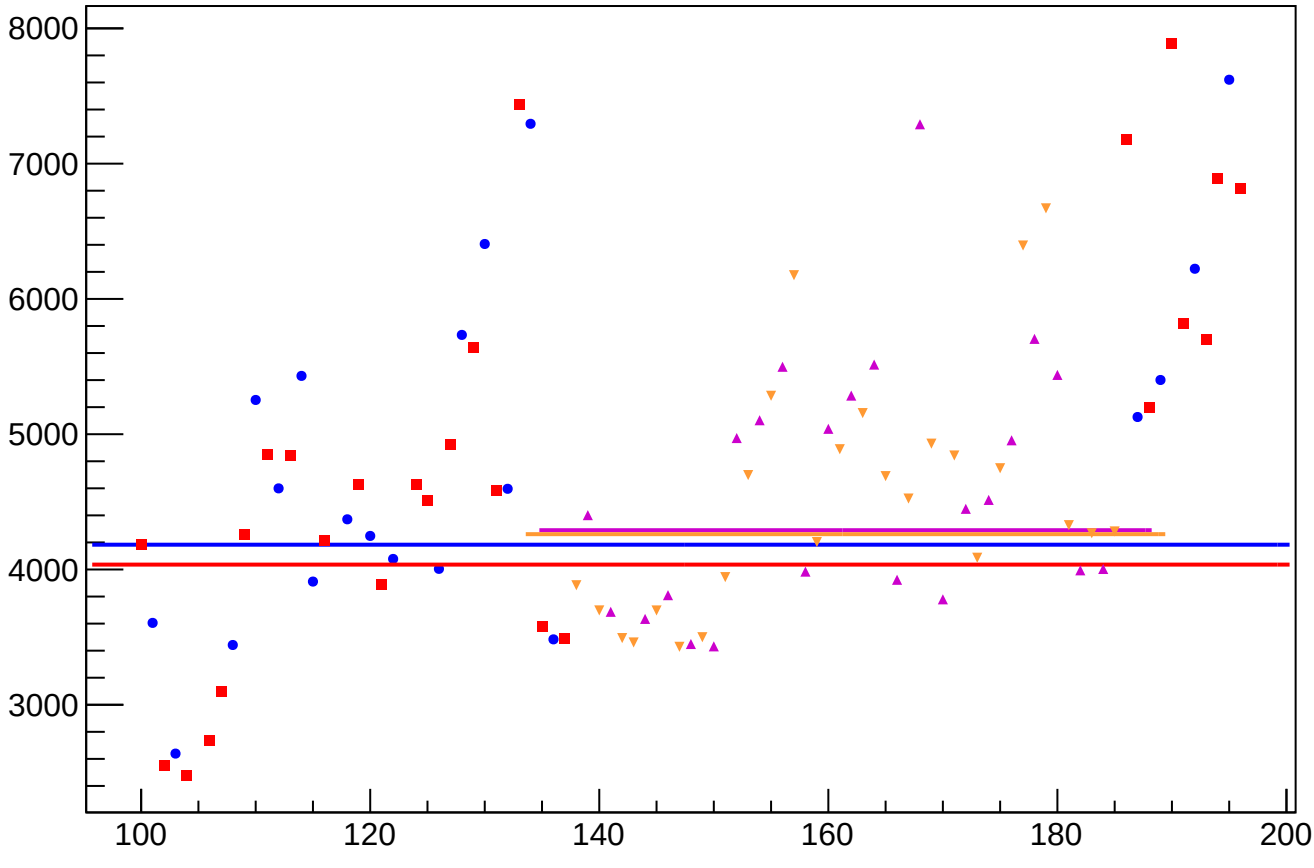
Left: -267.251+/-711.252 $\chi^2$/NDF: 40.9/47

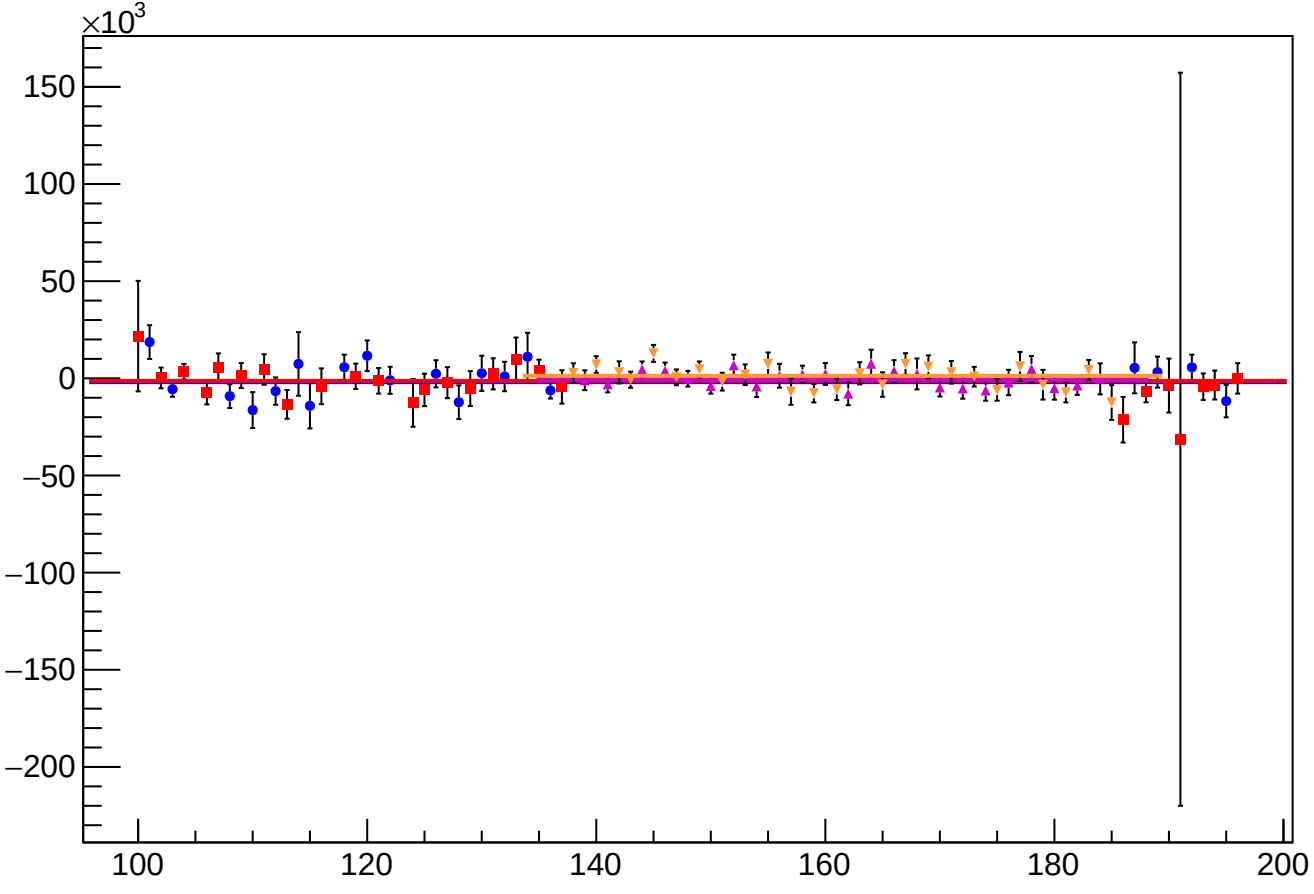
Right: 1328.173+/-929.048 $\chi^2$/NDF: 43.3/45

In: 433.892+/-825.625 $\chi^2$/NDF:31.8/42

Out: 224.160+/-774.213 $\chi^2$/NDF:54.2/50

All: 322.293+/-564.753 $\chi^2$/NDF: 86.1/93


asym_atr_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
100
120
140
160
180
200
Right In: 4183.289+/-0.990 χ²/NDF: 1580046.0/19
Left Out: 4261.131+/-0.700 χ²/NDF:1190564.2/24
Right Out: 4036.136+/-0.878 χ²/NDF: 2609662.1/25
Left In: 4290.404+/-0.723 χ²/NDF:1213970.5/22
Left: 4275.296+/-0.503 χ²/NDF: 2405380.8/47
Right: 4100.974+/-0.657 χ²/NDF: 4202075.1/45
In: 4253.131+/-0.584 χ²/NDF:2801654.5/42
Out: 4173.727+/-0.547 χ²/NDF:3840352.6/50
All: 4210.880+/-0.399 χ²/NDF: 6651850.4/93




Right In: -1964.271+/-1585.836 $\chi^2$/NDF: 24.4/19

Left Out: 1298.373+/-1049.555 $\chi^2$/NDF:28.5/24

Right Out: -1320.374+/-1445.505 $\chi^2$/NDF: 15.2/25

Left In: -576.442+/-1082.127 $\chi^2$/NDF:14.4/22

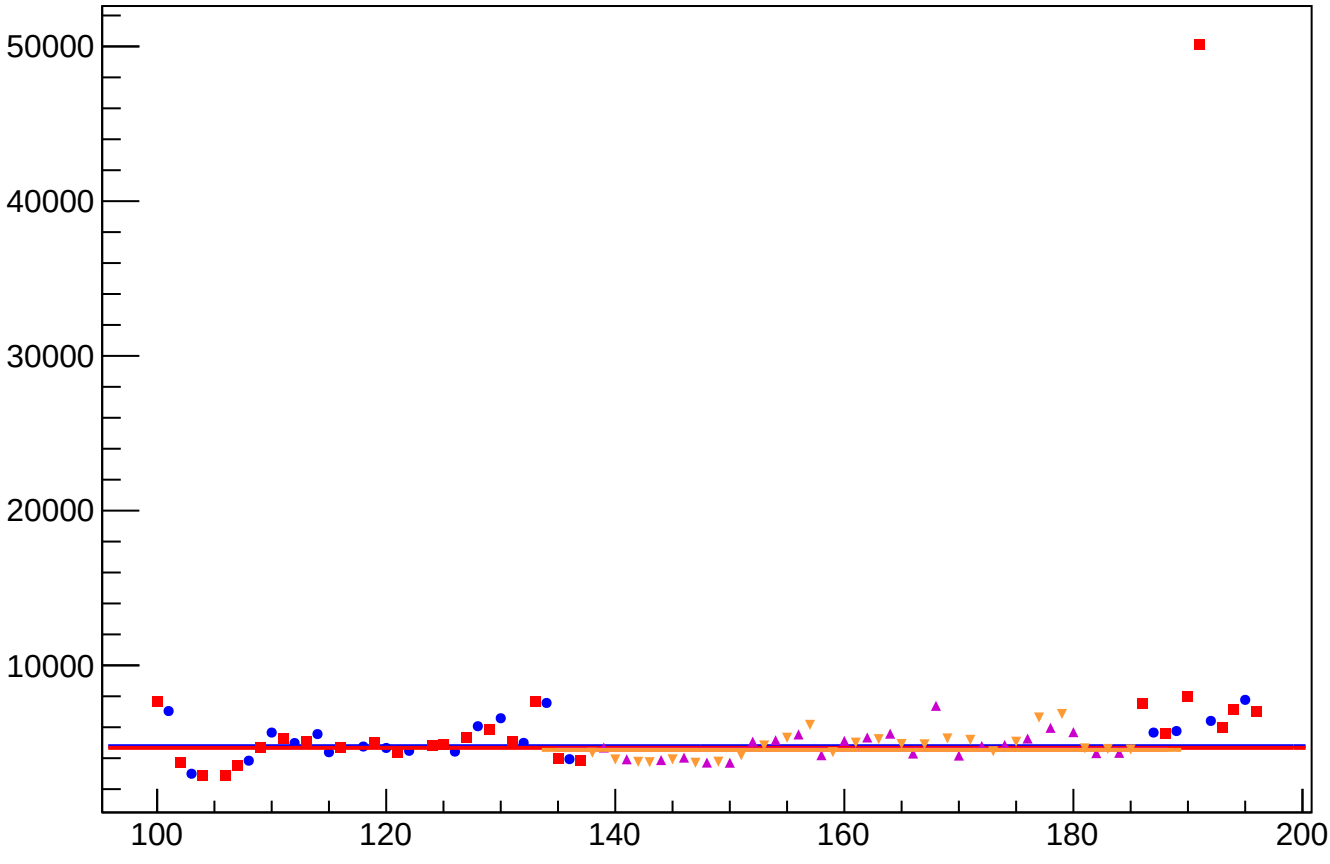
Left: 389.606+/-753.400 $\chi^2$/NDF: 44.4/47

Right: -1612.578+/-1068.300 $\chi^2$/NDF: 39.7/45

In: -1017.354+/-893.853 $\chi^2$/NDF:39.4/42

Out: 394.369+/-849.294 $\chi^2$/NDF:45.9/50

All: -275.428+/-615.692 $\chi^2$/NDF: 86.5/93




Right In: 4774.108+/-1.121 $\chi^2$/NDF: 1377017.2/19

Left Out: 4537.934+/-0.742 $\chi^2$/NDF:992905.4/24

Right Out: 4668.269+/-1.015 $\chi^2$/NDF: 1894058.8/25

Left In: 4560.506+/-0.765 $\chi^2$/NDF:980201.3/22

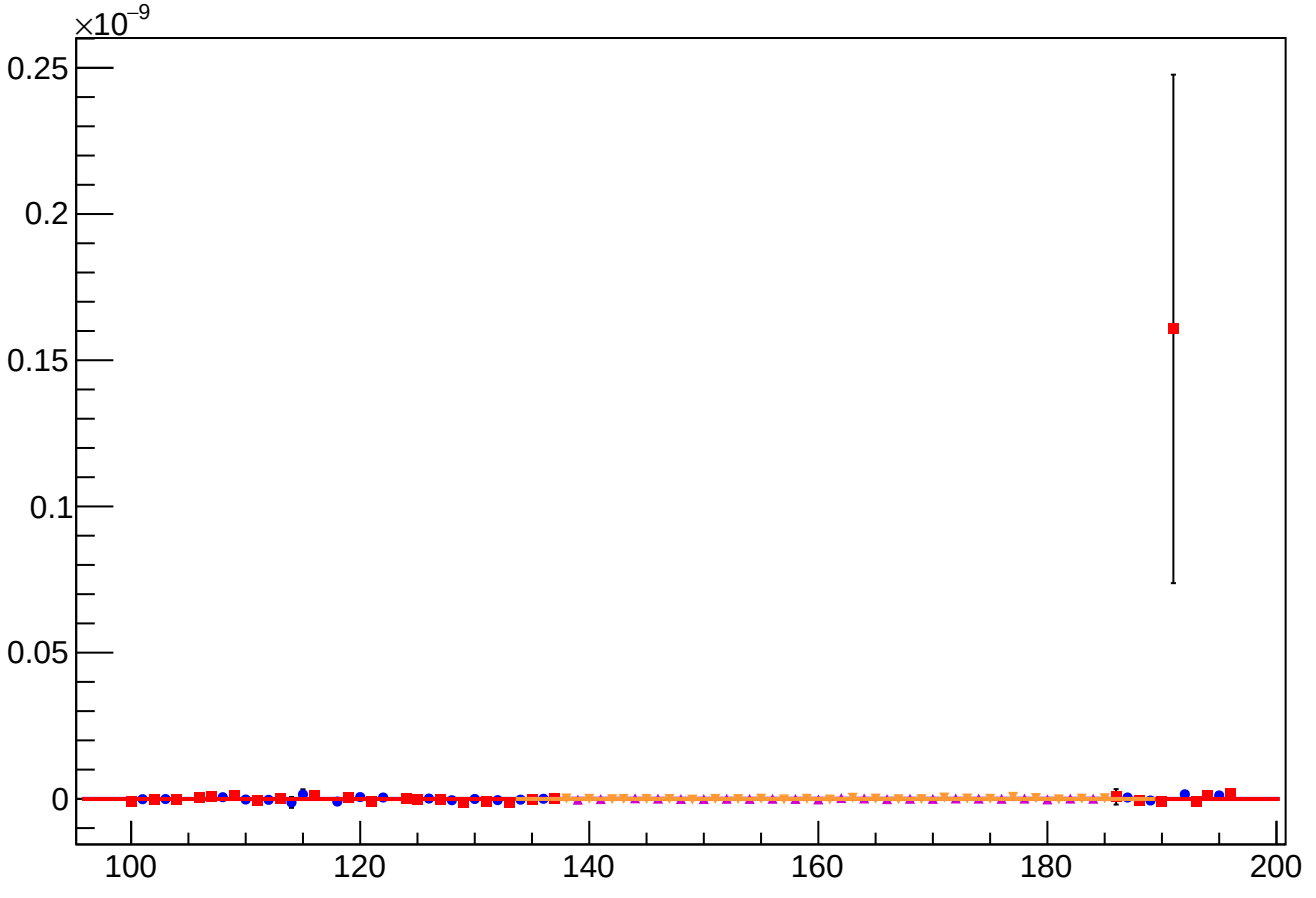
Left: 4548.875+/-0.533 $\chi^2$/NDF: 1973555.1/47

Right: 4715.958+/-0.753 $\chi^2$/NDF: 3275970.6/45

In: 4628.367+/-0.632 $\chi^2$/NDF:2381975.7/42

Out: 4583.311+/-0.599 $\chi^2$/NDF:2897702.0/50

All: 4604.637+/-0.435 $\chi^2$/NDF: 5282354.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.2/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:37.9/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.6/22

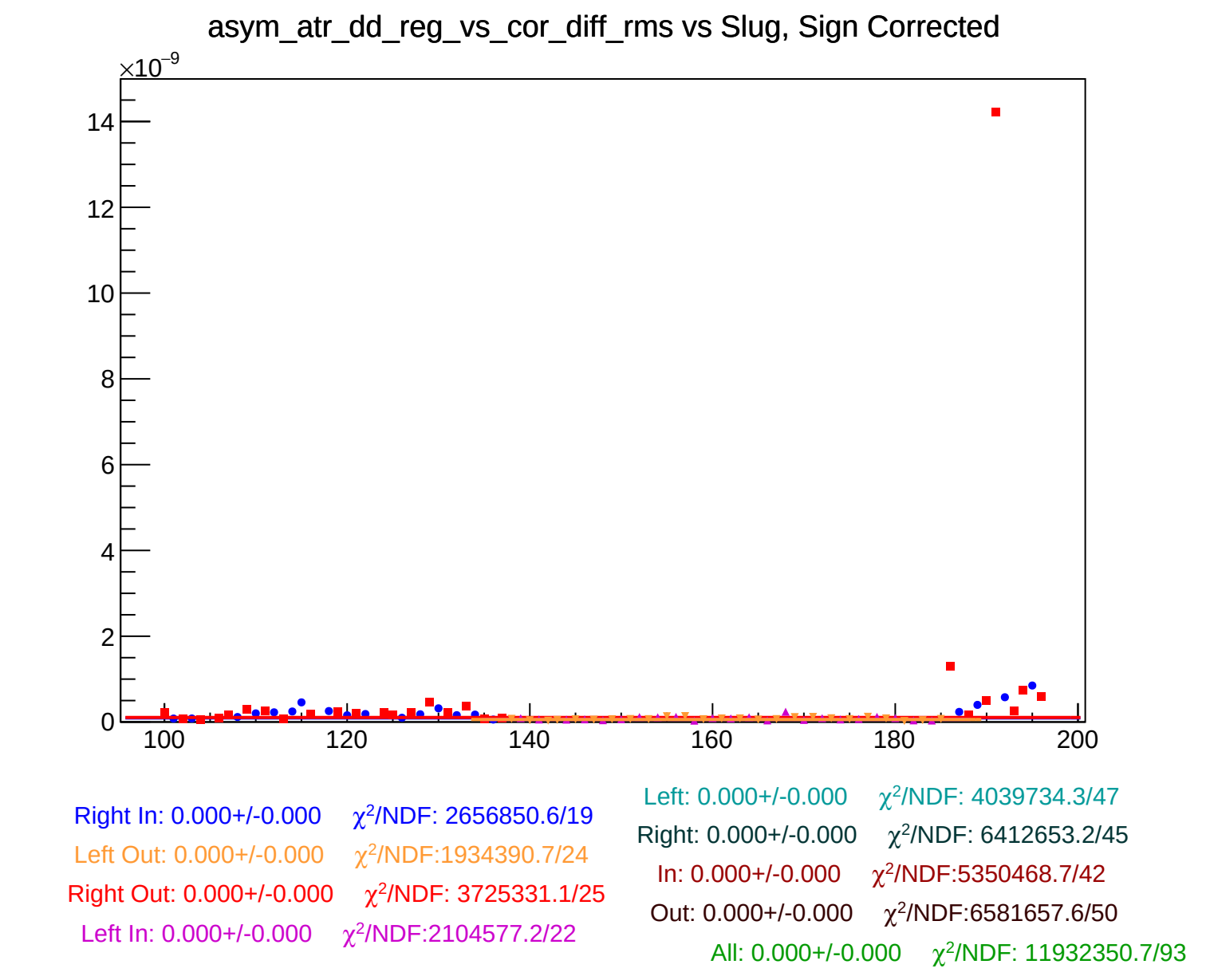
Left: -0.000+/-0.000 $\chi^2$/NDF: 60.1/47

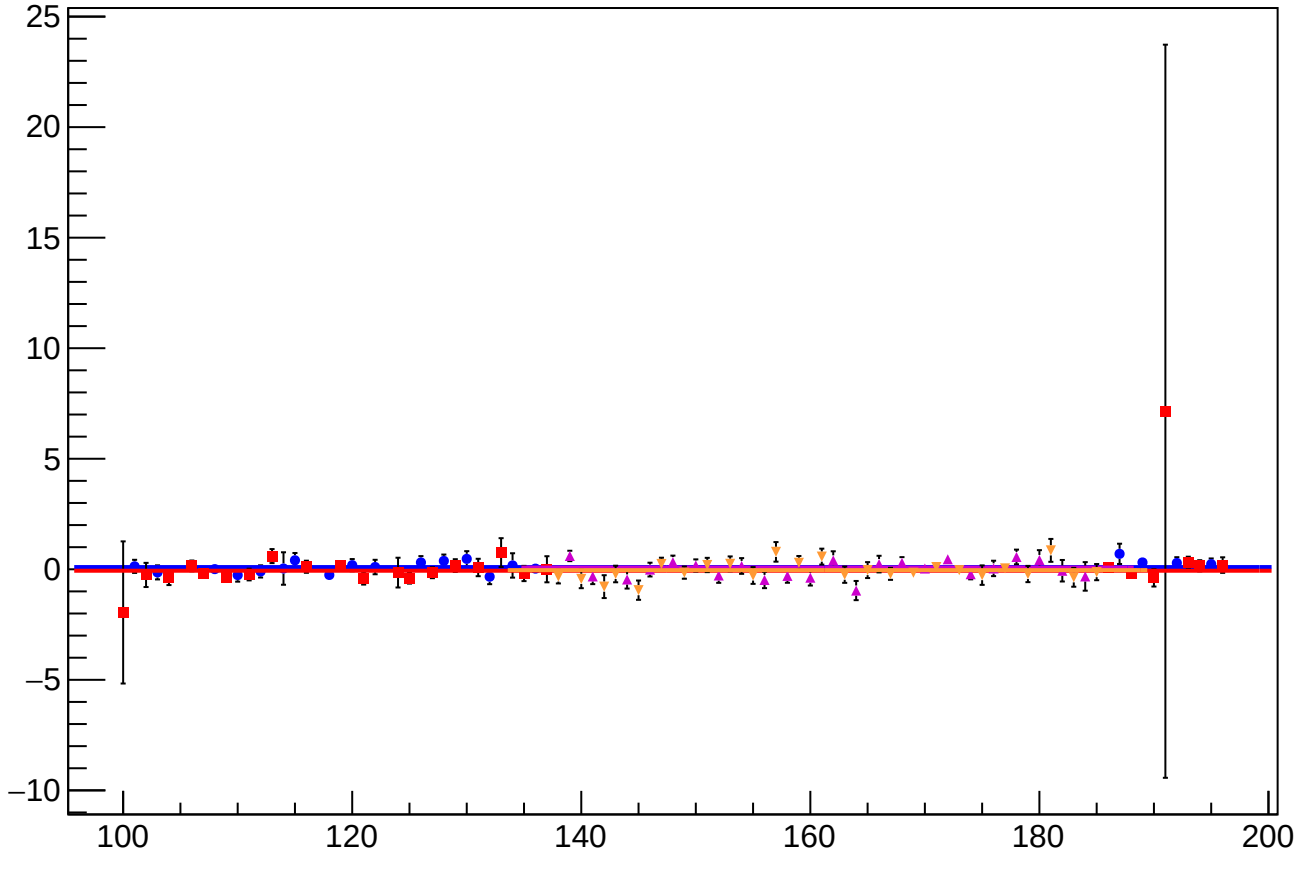
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:37.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:71.7/50

All: -0.000+/-0.000 $\chi^2$/NDF: 111.5/93


asym_atr_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
14
12
10
8
6
4
2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2656850.6/19
Left Out: 0.000+/-0.000 χ²/NDF:1934390.7/24
Right Out: 0.000+/-0.000 χ²/NDF: 3725331.1/25
Left In: 0.000+/-0.000 χ²/NDF:2104577.2/22
Left: 0.000+/-0.000 χ²/NDF: 4039734.3/47
Right: 0.000+/-0.000 χ²/NDF: 6412653.2/45
In: 0.000+/-0.000 χ²/NDF:5350468.7/42
Out: 0.000+/-0.000 χ²/NDF:6581657.6/50
All: 0.000+/-0.000 χ²/NDF: 11932350.7/93




Right In: 0.101+/-0.062 $\chi^2$/NDF: 15.0/19

Left Out: -0.038+/-0.062 $\chi^2$/NDF:24.4/24

Right Out: -0.066+/-0.054 $\chi^2$/NDF: 23.5/25

Left In: 0.078+/-0.065 $\chi^2$/NDF:31.1/22

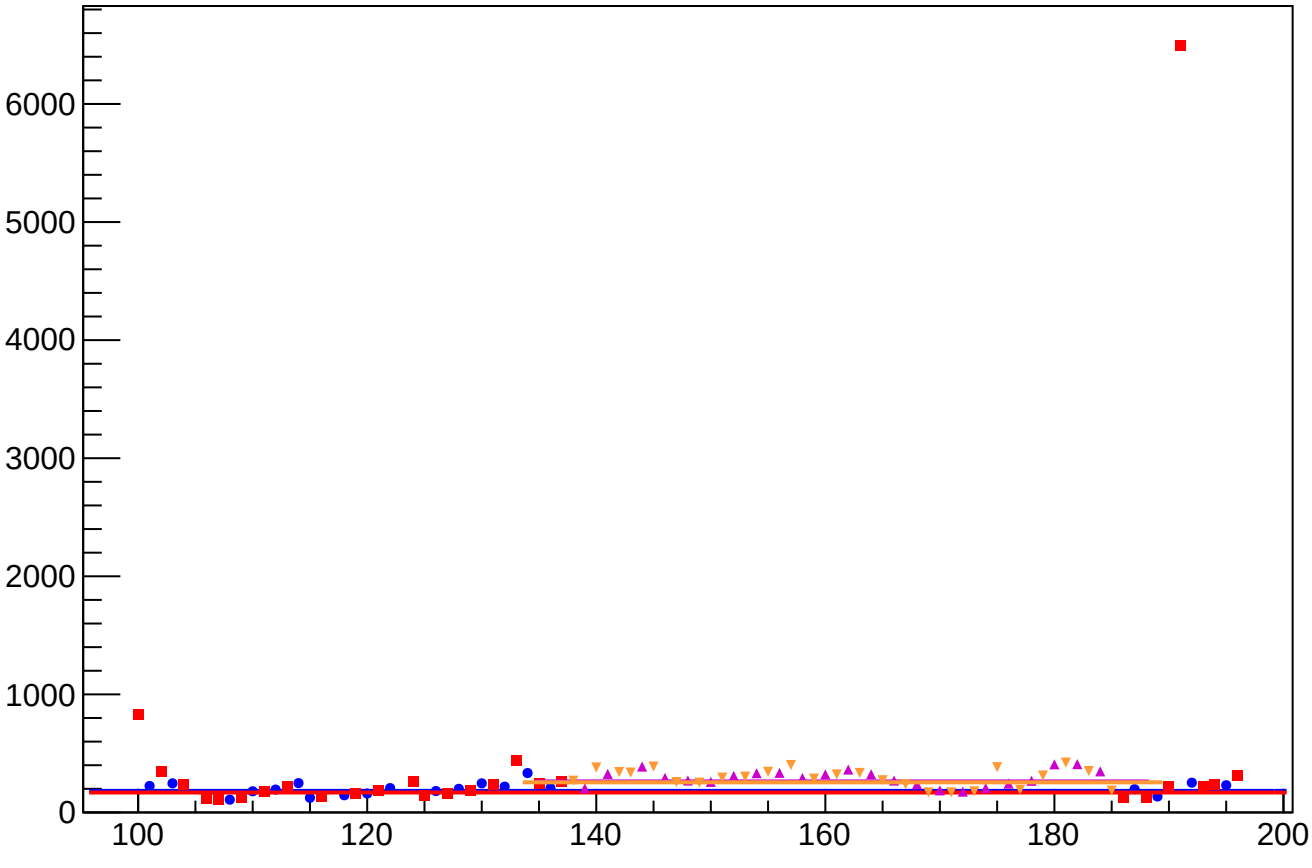
Left: 0.017+/-0.045 $\chi^2$/NDF: 57.2/47

Right: 0.006+/-0.041 $\chi^2$/NDF: 42.5/45

In: 0.090+/-0.045 $\chi^2$/NDF:46.1/42

Out: -0.054+/-0.041 $\chi^2$/NDF:48.0/50

All: 0.011+/-0.030 $\chi^2$/NDF: 99.8/93




Right In: 182.622+/-0.044 $\chi^2$/NDF: 1253292.7/19

Left Out: 255.355+/-0.044 $\chi^2$/NDF:2935324.6/24

Right Out: 168.952+/-0.038 $\chi^2$/NDF: 2552812.5/25

Left In: 262.788+/-0.046 $\chi^2$/NDF:2025363.4/22

Left: 258.898+/-0.032 $\chi^2$/NDF: 4974421.6/47

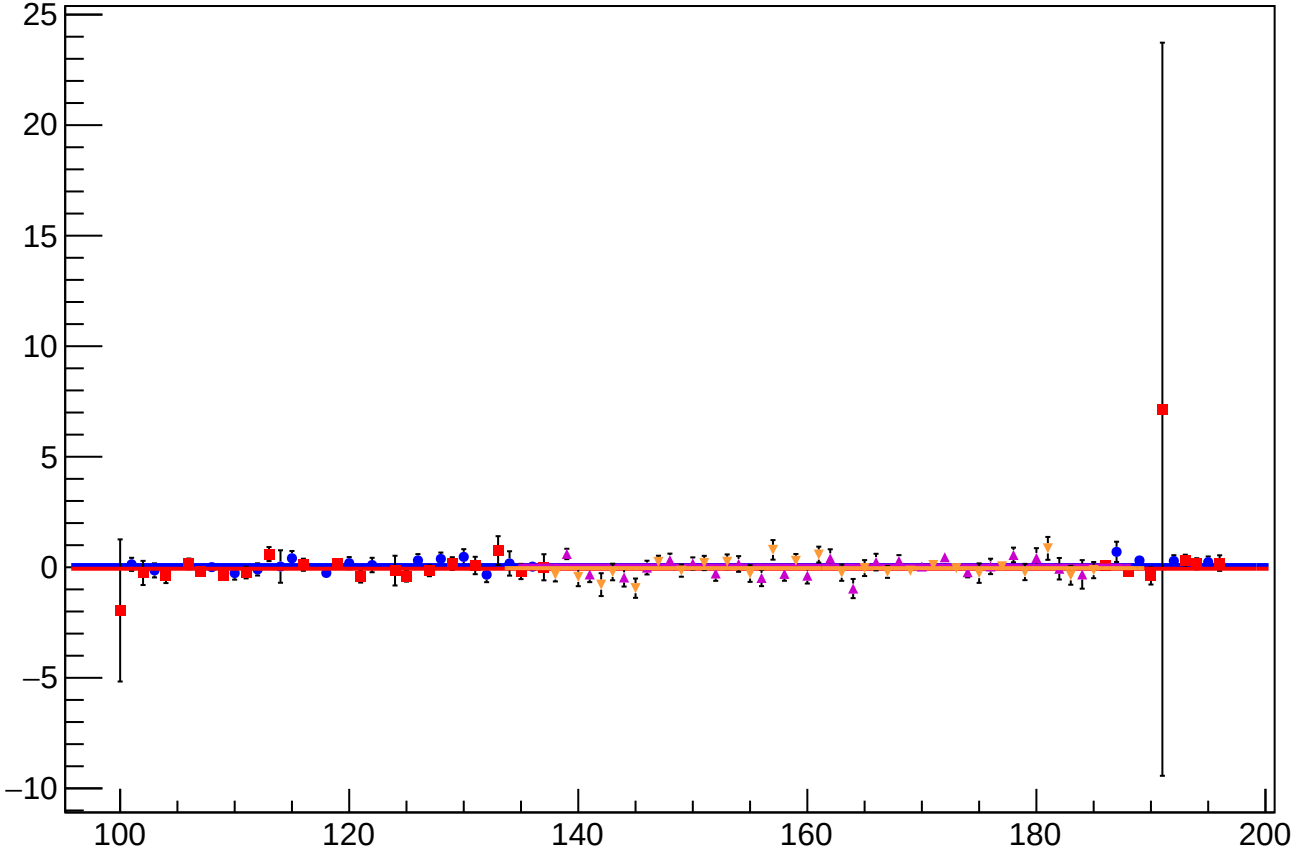
Right: 174.878+/-0.029 $\chi^2$/NDF: 3861472.0/45

In: 220.778+/-0.032 $\chi^2$/NDF:4878500.6/42

Out: 206.350+/-0.029 $\chi^2$/NDF:7696674.1/50

All: 212.886+/-0.021 $\chi^2$/NDF: 12688820.3/93

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.101+/-0.062 $\chi^2$/NDF: 15.0/19

Left Out: -0.038+/-0.062 $\chi^2$/NDF:24.4/24

Right Out: -0.066+/-0.054 $\chi^2$/NDF: 23.5/25

Left In: 0.078+/-0.065 $\chi^2$/NDF:31.1/22

Left: 0.017+/-0.045 $\chi^2$/NDF: 57.2/47

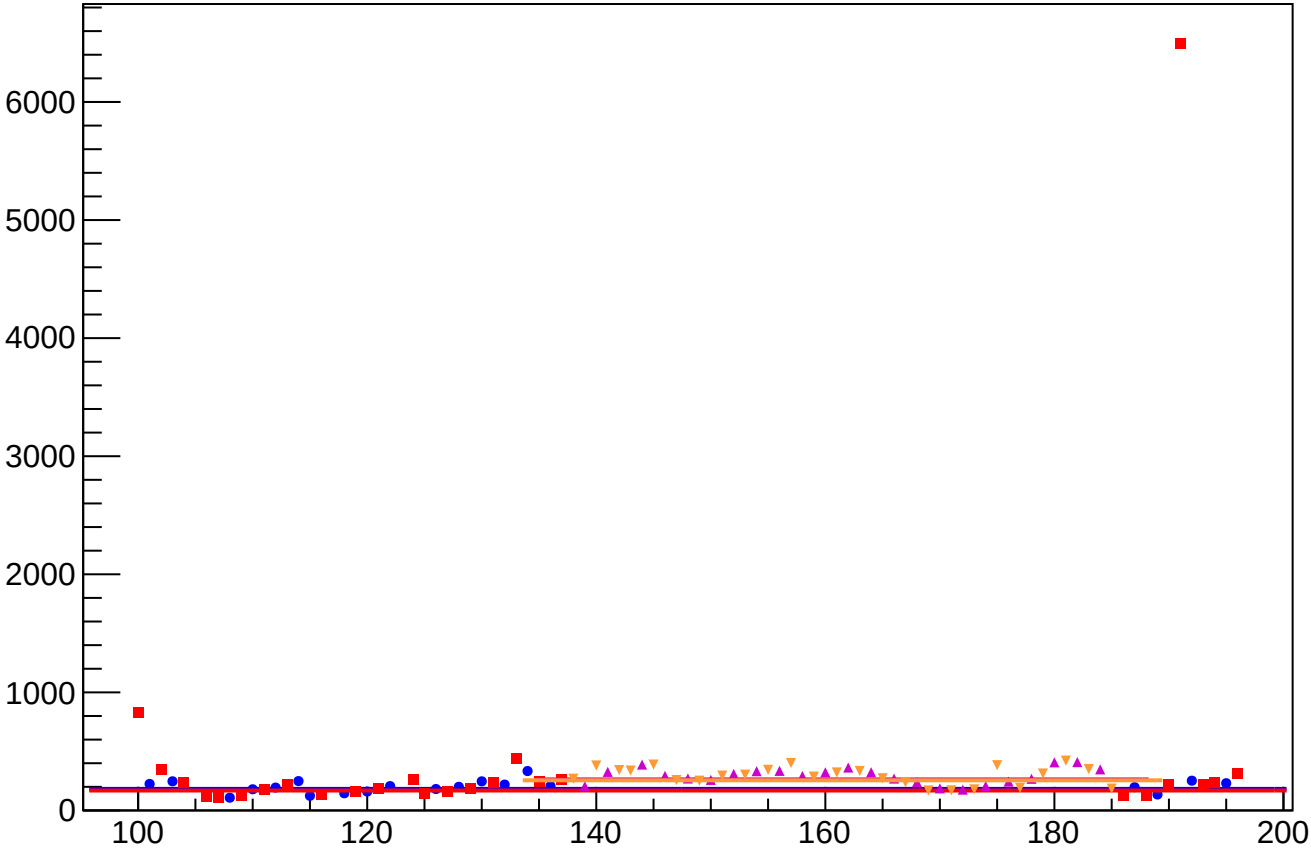
Right: 0.006+/-0.041 $\chi^2$/NDF: 42.5/45

In: 0.090+/-0.045 $\chi^2$/NDF:46.1/42

Out: -0.054+/-0.041 $\chi^2$/NDF:48.0/50

All: 0.011+/-0.030 $\chi^2$/NDF: 99.8/93

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 182.622+/-0.044 $\chi^2$/NDF: 1253292.7/19

Left Out: 255.355+/-0.044 $\chi^2$/NDF:2935324.6/24

Right Out: 168.952+/-0.038 $\chi^2$/NDF: 2552812.5/25

Left In: 262.788+/-0.046 $\chi^2$/NDF:2025363.4/22

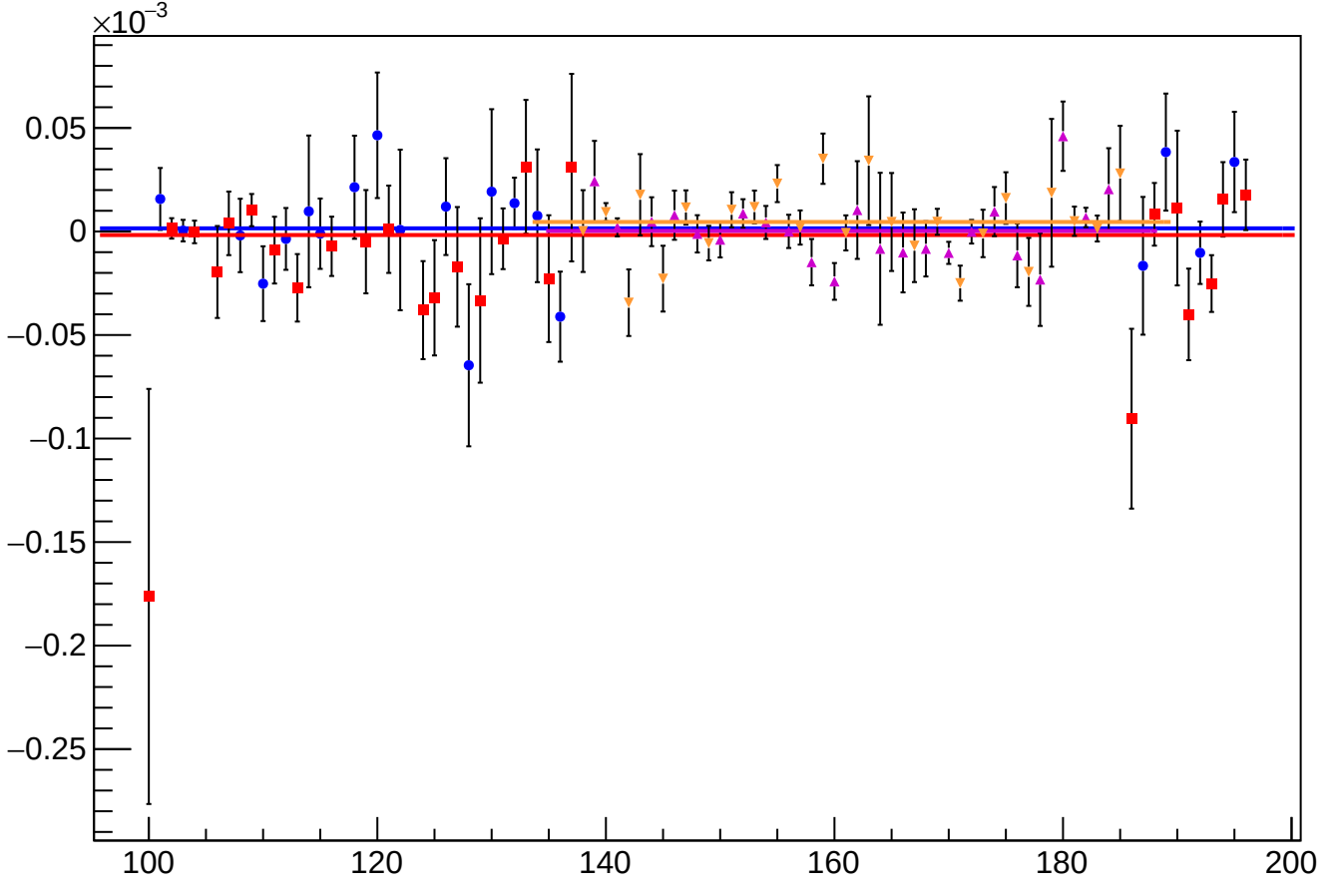
Left: 258.898+/-0.032 $\chi^2$/NDF: 4974421.6/47

Right: 174.878+/-0.029 $\chi^2$/NDF: 3861472.0/45

In: 220.778+/-0.032 $\chi^2$/NDF:4878500.6/42

Out: 206.350+/-0.029 $\chi^2$/NDF:7696674.1/50

All: 212.886+/-0.021 $\chi^2$/NDF: 12688820.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:31.2/22

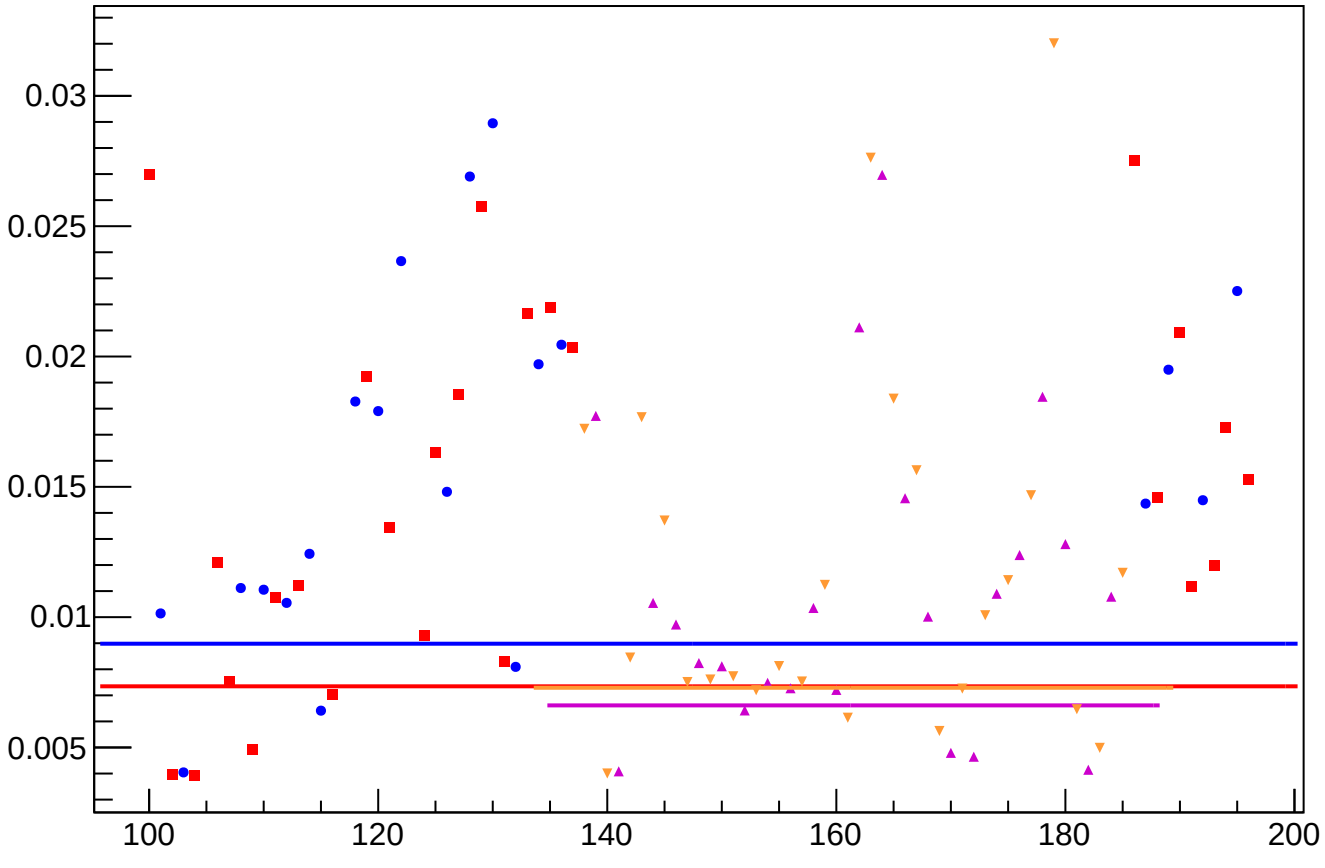
Left: 0.000+/-0.000 $\chi^2$/NDF: 77.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 48.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:50.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:76.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 126.8/93




Right In: 0.009+/-0.000 $\chi^2$/NDF: 5751275.0/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:6772003.6/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 7372257.8/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:6410135.0/22

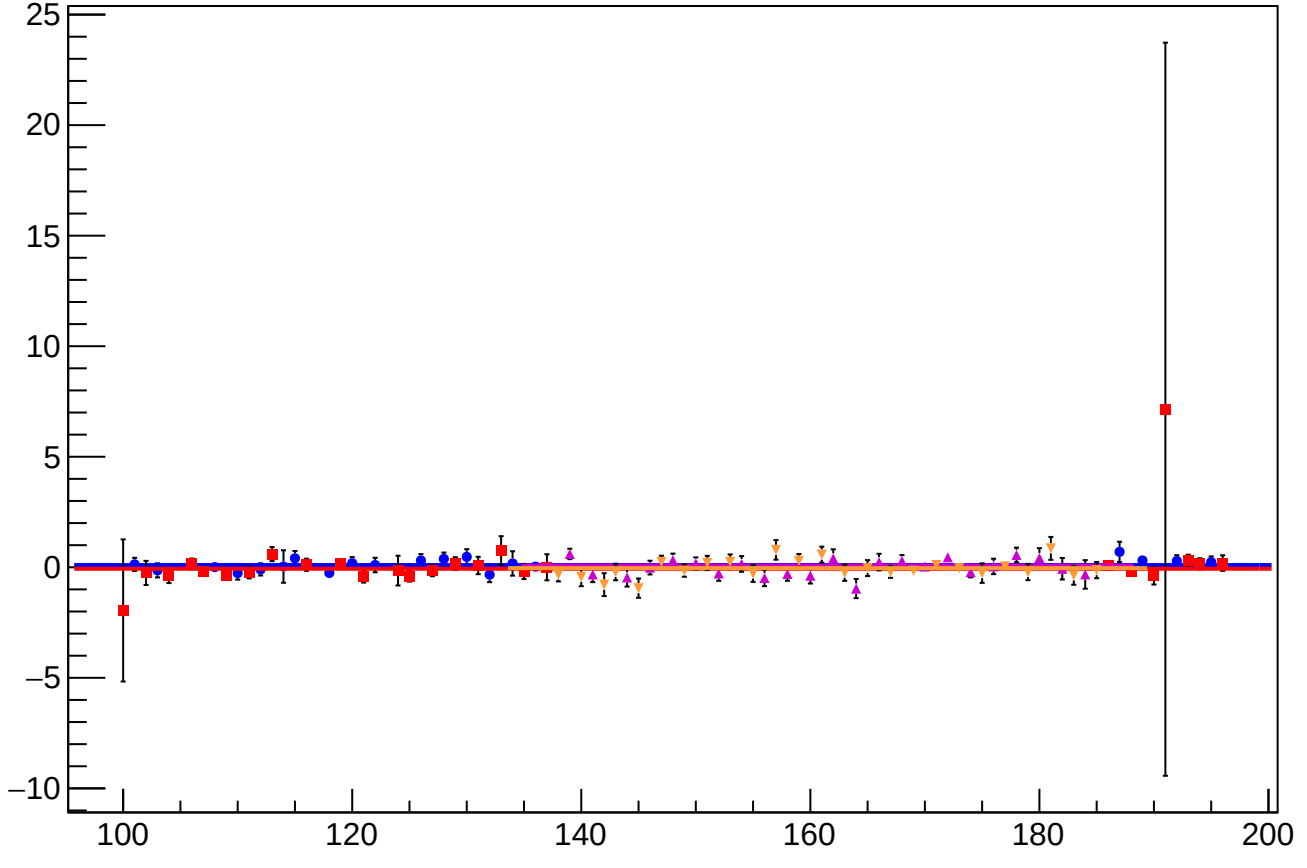
Left: 0.007+/-0.000 $\chi^2$/NDF: 13317745.0/47

Right: 0.008+/-0.000 $\chi^2$/NDF: 13401285.1/45

In: 0.007+/-0.000 $\chi^2$/NDF:12879432.5/42

Out: 0.007+/-0.000 $\chi^2$/NDF:14144848.7/50

All: 0.007+/-0.000 $\chi^2$/NDF: 27041638.5/93




Right In: 0.101+/-0.062 $\chi^2$/NDF: 15.0/19

Left Out: -0.038+/-0.062 $\chi^2$/NDF:24.4/24

Right Out: -0.066+/-0.054 $\chi^2$/NDF: 23.5/25

Left In: 0.078+/-0.065 $\chi^2$/NDF:31.1/22

Left: 0.017+/-0.045 $\chi^2$/NDF: 57.2/47

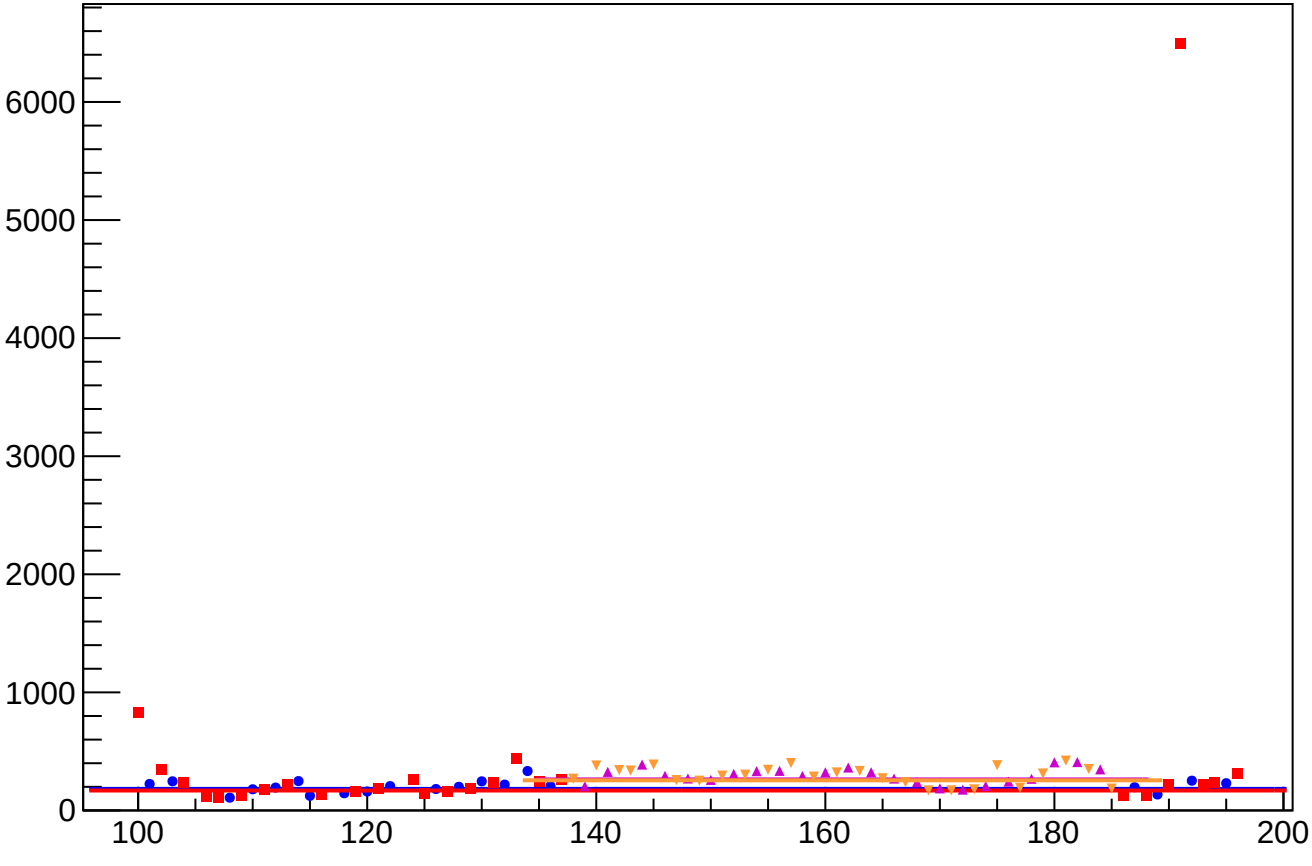
Right: 0.006+/-0.041 $\chi^2$/NDF: 42.5/45

In: 0.090+/-0.045 $\chi^2$/NDF:46.1/42

Out: -0.054+/-0.041 $\chi^2$/NDF:48.0/50

All: 0.011+/-0.030 $\chi^2$/NDF: 99.8/93

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 182.622+/-0.044 $\chi^2$/NDF: 1253270.2/19

Left Out: 255.357+/-0.044 $\chi^2$/NDF:2935428.4/24

Right Out: 168.954+/-0.038 $\chi^2$/NDF: 2552745.4/25

Left In: 262.790+/-0.046 $\chi^2$/NDF:2025402.0/22

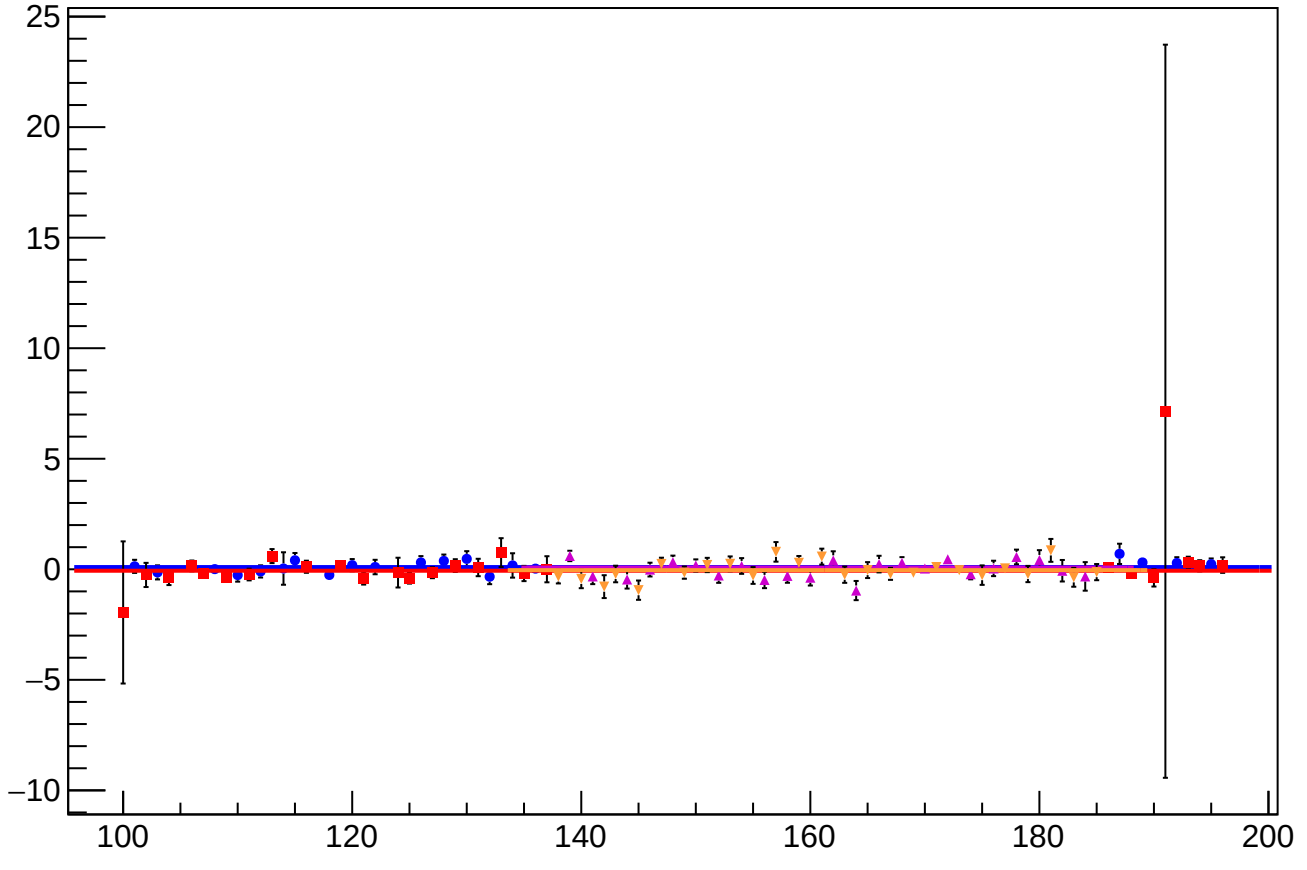
Left: 258.900+/-0.032 $\chi^2$/NDF: 4974565.9/47

Right: 174.879+/-0.029 $\chi^2$/NDF: 3861369.2/45

In: 220.778+/-0.032 $\chi^2$/NDF:4878617.7/42

Out: 206.351+/-0.029 $\chi^2$/NDF:7696710.4/50

All: 212.887+/-0.021 $\chi^2$/NDF: 12688957.3/93




Right In: 0.101+/-0.062 $\chi^2$/NDF: 15.0/19

Left Out: -0.038+/-0.062 $\chi^2$/NDF:24.4/24

Right Out: -0.066+/-0.054 $\chi^2$/NDF: 23.5/25

Left In: 0.078+/-0.065 $\chi^2$/NDF:31.1/22

Left: 0.017+/-0.045 $\chi^2$/NDF: 57.2/47

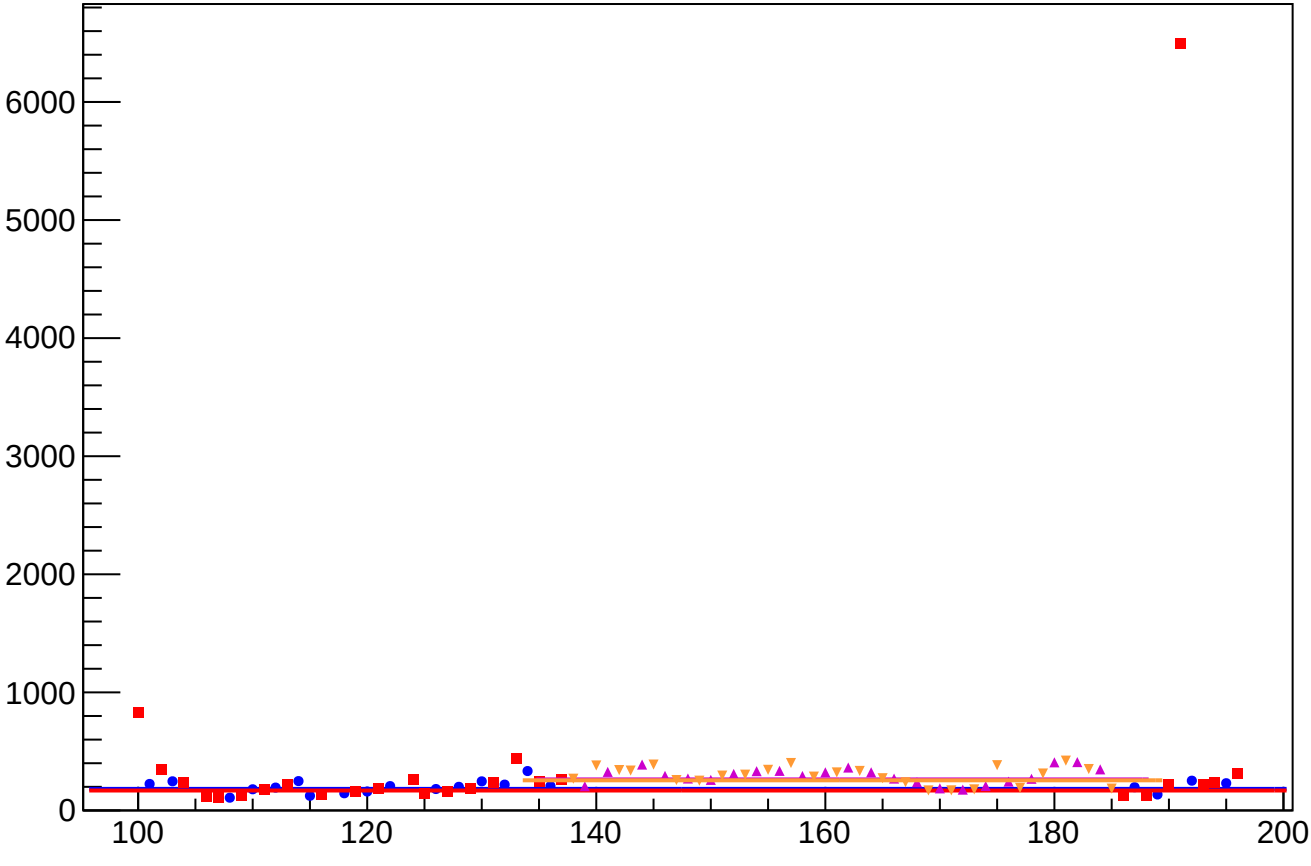
Right: 0.006+/-0.041 $\chi^2$/NDF: 42.5/45

In: 0.090+/-0.045 $\chi^2$/NDF:46.1/42

Out: -0.054+/-0.041 $\chi^2$/NDF:48.0/50

All: 0.011+/-0.030 $\chi^2$/NDF: 99.8/93

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 182.622+/-0.044 $\chi^2$/NDF: 1253270.2/19

Left Out: 255.357+/-0.044 $\chi^2$/NDF:2935428.4/24

Right Out: 168.954+/-0.038 $\chi^2$/NDF: 2552745.4/25

Left In: 262.790+/-0.046 $\chi^2$/NDF:2025402.0/22

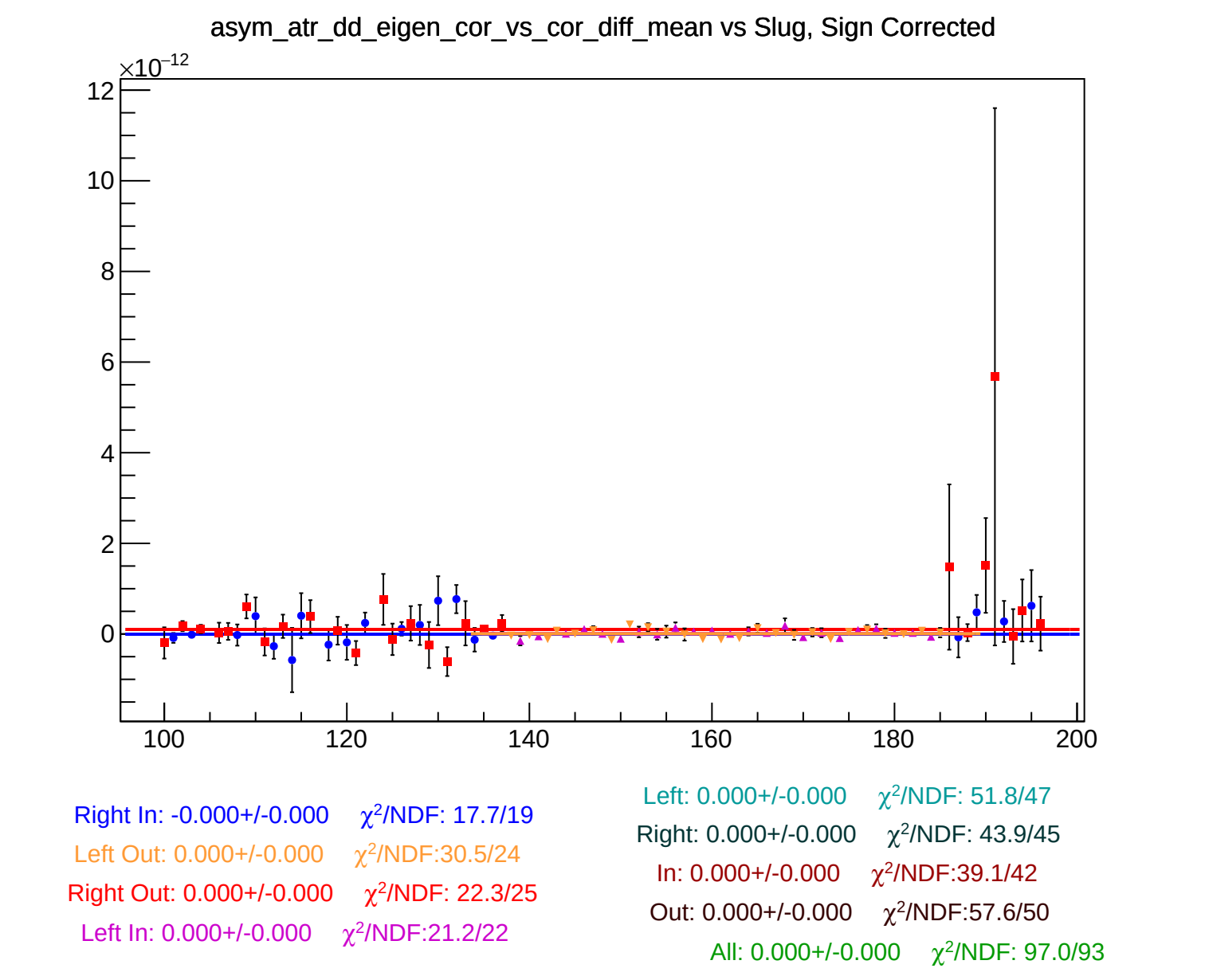
Left: 258.900+/-0.032 $\chi^2$/NDF: 4974565.9/47

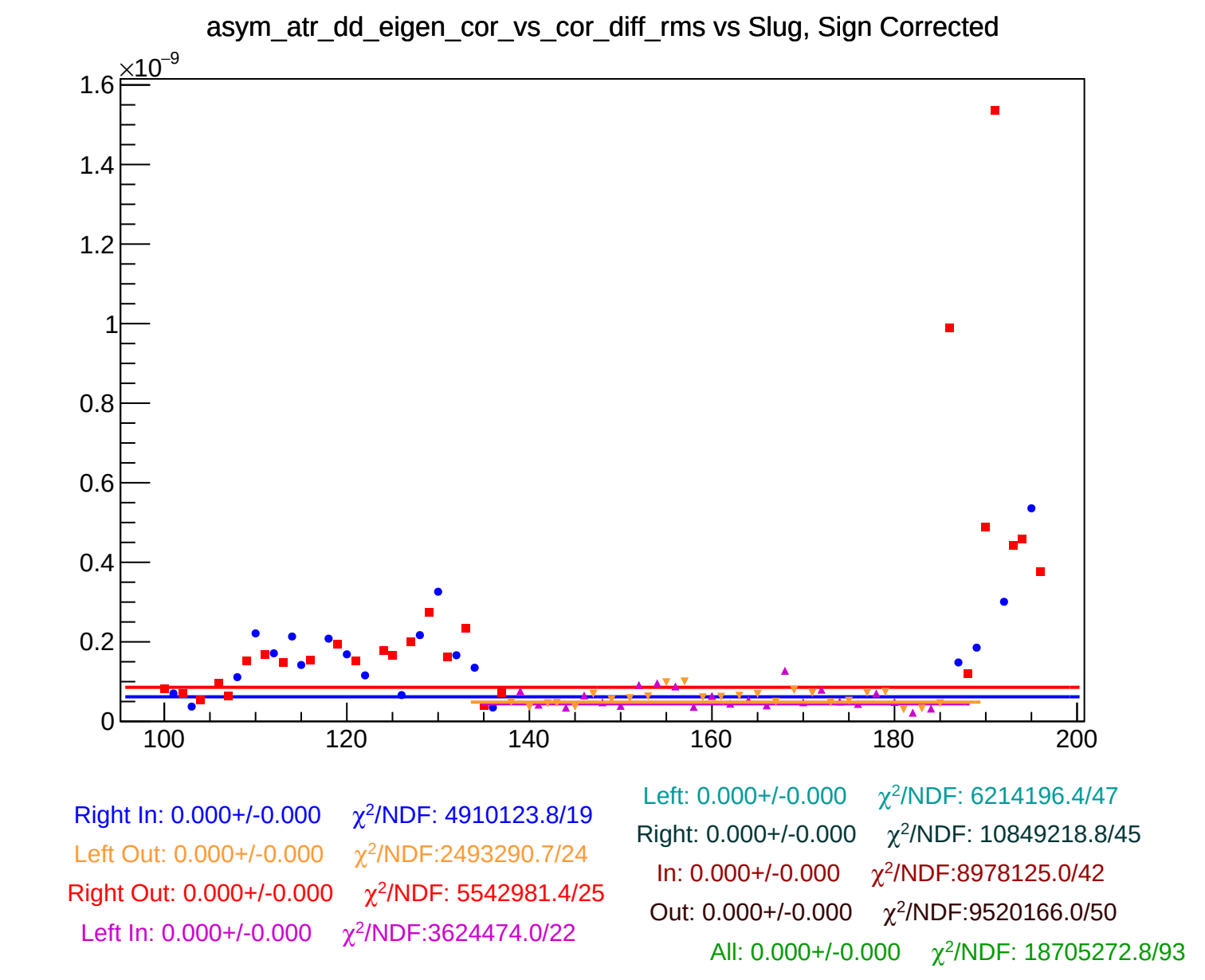
Right: 174.879+/-0.029 $\chi^2$/NDF: 3861369.2/45

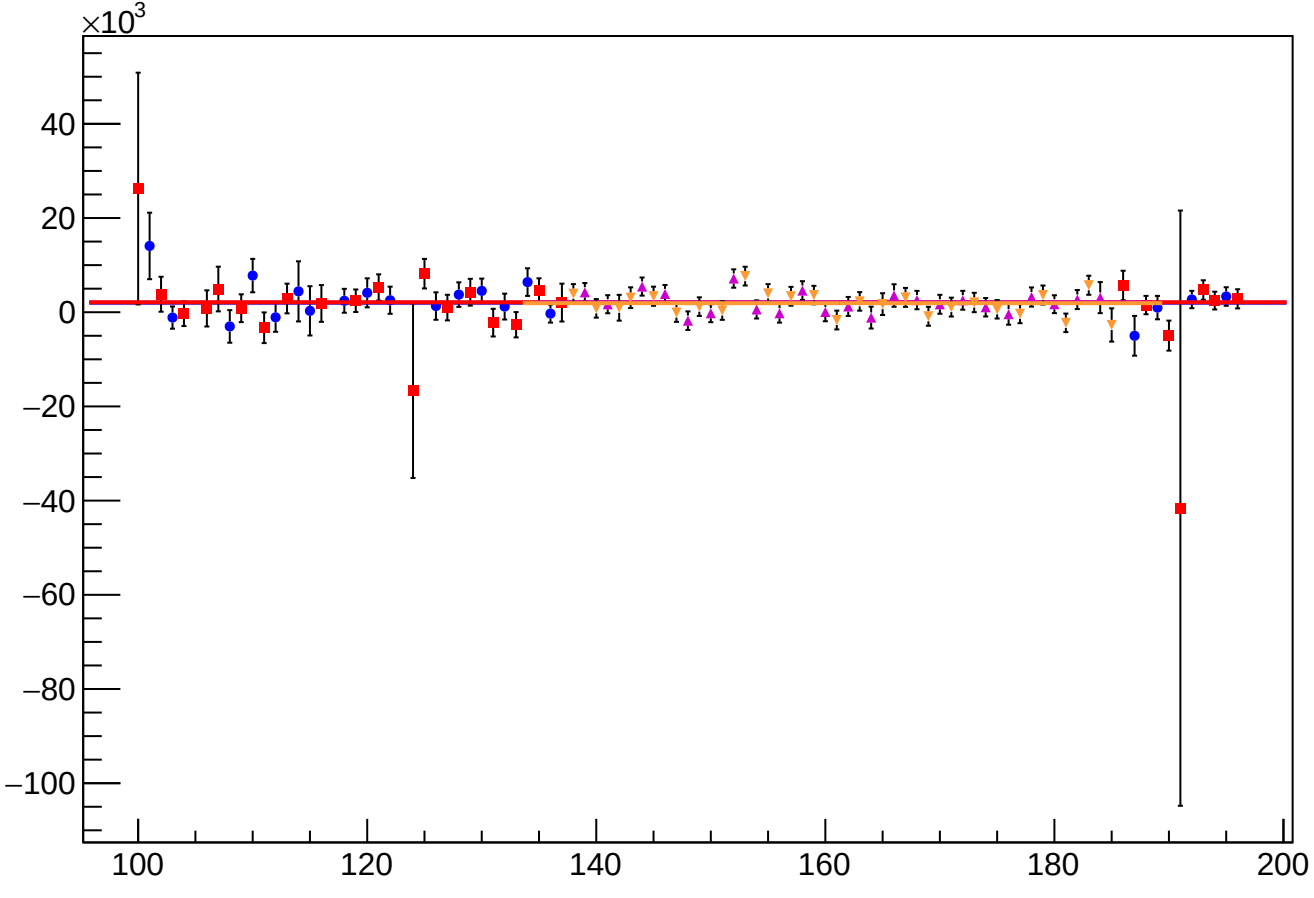
In: 220.778+/-0.032 $\chi^2$/NDF:4878617.7/42

Out: 206.351+/-0.029 $\chi^2$/NDF:7696710.4/50

All: 212.887+/-0.021 $\chi^2$/NDF: 12688957.3/93


asym_atr_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
12
10
8
6
4
2
0
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 17.7/19
Left Out: 0.000+/-0.000 χ²/NDF:30.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 22.3/25
Left In: 0.000+/-0.000 χ²/NDF:21.2/22
Left: 0.000+/-0.000 χ²/NDF: 51.8/47
Right: 0.000+/-0.000 χ²/NDF: 43.9/45
In: 0.000+/-0.000 χ²/NDF:39.1/42
Out: 0.000+/-0.000 χ²/NDF:57.6/50
All: 0.000+/-0.000 χ²/NDF: 97.0/93


asym_atr_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4910123.8/19
Left Out: 0.000+/-0.000 χ²/NDF:2493290.7/24
Right Out: 0.000+/-0.000 χ²/NDF: 5542981.4/25
Left In: 0.000+/-0.000 χ²/NDF:3624474.0/22
Left: 0.000+/-0.000 χ²/NDF: 6214196.4/47
Right: 0.000+/-0.000 χ²/NDF: 10849218.8/45
In: 0.000+/-0.000 χ²/NDF:8978125.0/42
Out: 0.000+/-0.000 χ²/NDF:9520166.0/50
All: 0.000+/-0.000 χ²/NDF: 18705272.8/93




Right In: 2025.329+/-618.307 $\chi^2$/NDF: 20.0/19

Left Out: 1920.623+/-412.915 $\chi^2$/NDF:32.5/24

Right Out: 2108.583+/-571.421 $\chi^2$/NDF: 27.2/25

Left In: 2074.205+/-423.203 $\chi^2$/NDF:26.5/22

Left: 1995.525+/-295.545 $\chi^2$/NDF: 59.1/47

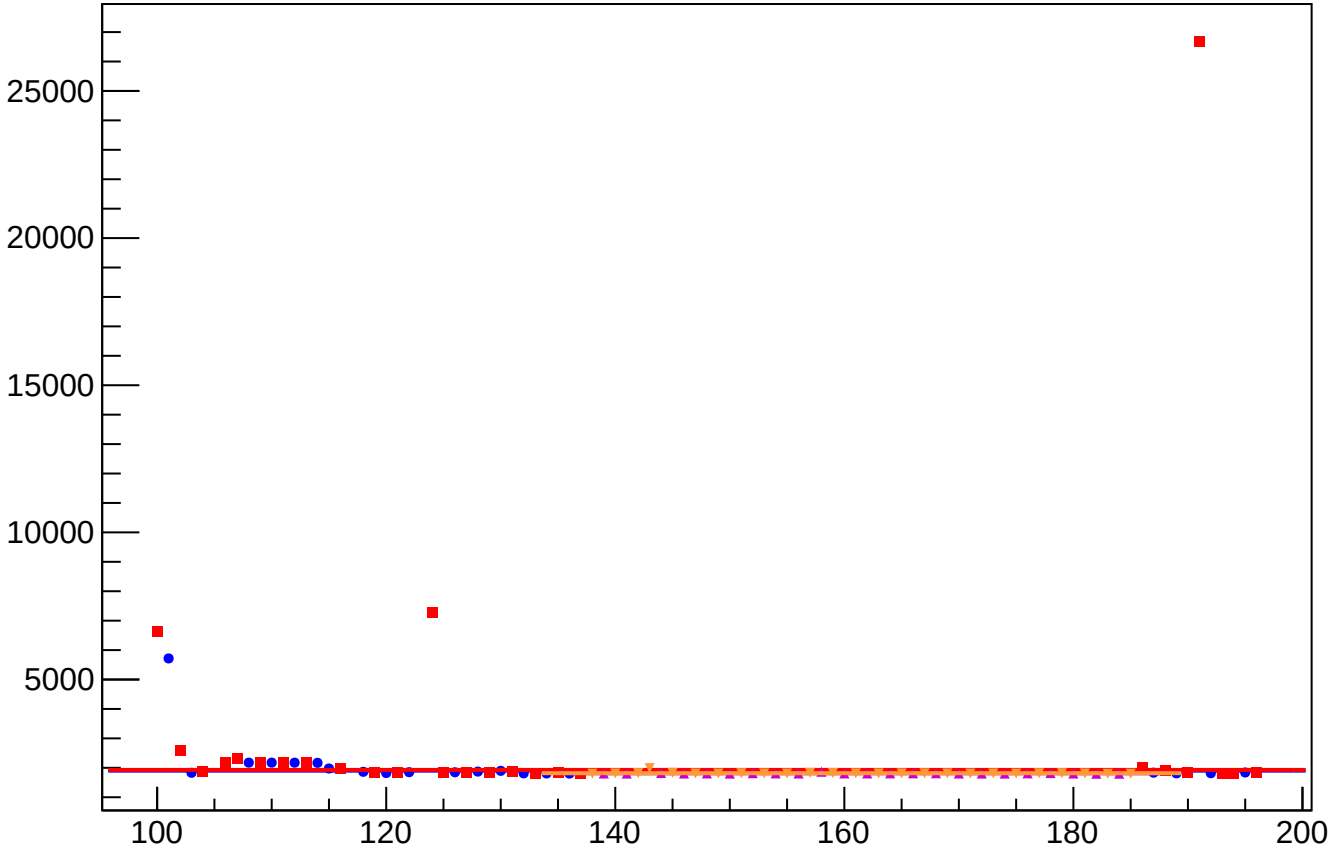
Right: 2070.232+/-419.653 $\chi^2$/NDF: 47.1/45

In: 2058.613+/-349.233 $\chi^2$/NDF:46.5/42

Out: 1985.101+/-334.680 $\chi^2$/NDF:59.8/50

All: 2020.293+/-241.635 $\chi^2$/NDF: 106.3/93

# reg_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1904.284+/-0.437 $\chi^2$/NDF: 651950.8/19

Left Out: 1817.524+/-0.292 $\chi^2$/NDF:12955.2/24

Right Out: 1928.754+/-0.404 $\chi^2$/NDF: 715630.0/25

Left In: 1812.545+/-0.299 $\chi^2$/NDF:2013.0/22

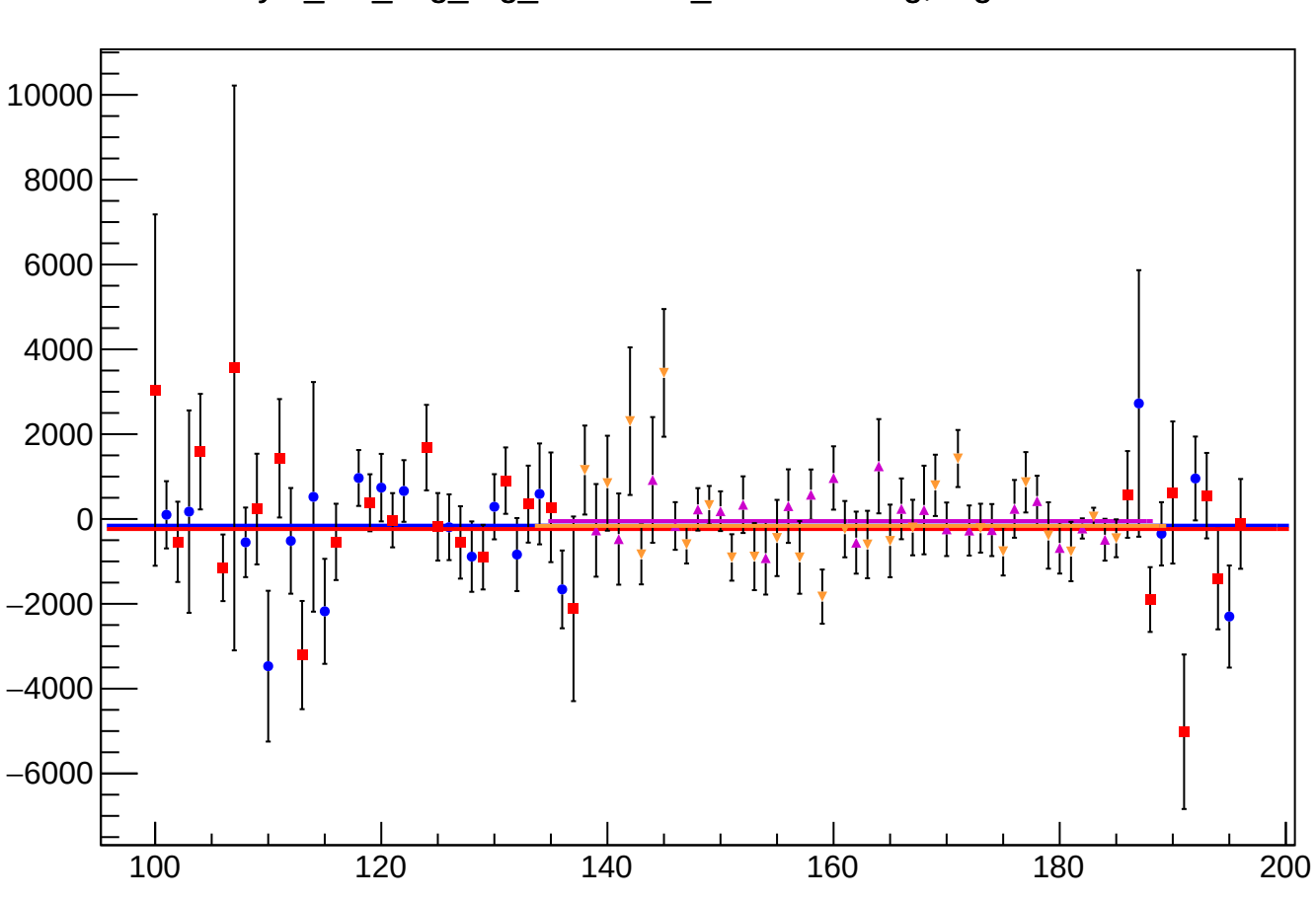
Left: 1815.096+/-0.209 $\chi^2$/NDF: 15110.1/47

Right: 1917.482+/-0.297 $\chi^2$/NDF: 1369270.3/45

In: 1841.812+/-0.247 $\chi^2$/NDF:683945.8/42

Out: 1855.681+/-0.237 $\chi^2$/NDF:778370.3/50

All: 1849.041+/-0.171 $\chi^2$/NDF: 1463960.3/93




Right In: -157.528+/-211.088 $\chi^2$/NDF: 22.2/19

Left Out: -162.996+/-115.295 $\chi^2$/NDF:36.8/24

Right Out: -237.099+/-195.380 $\chi^2$/NDF: 34.3/25

Left In: -49.290+/-122.691 $\chi^2$/NDF:11.3/22

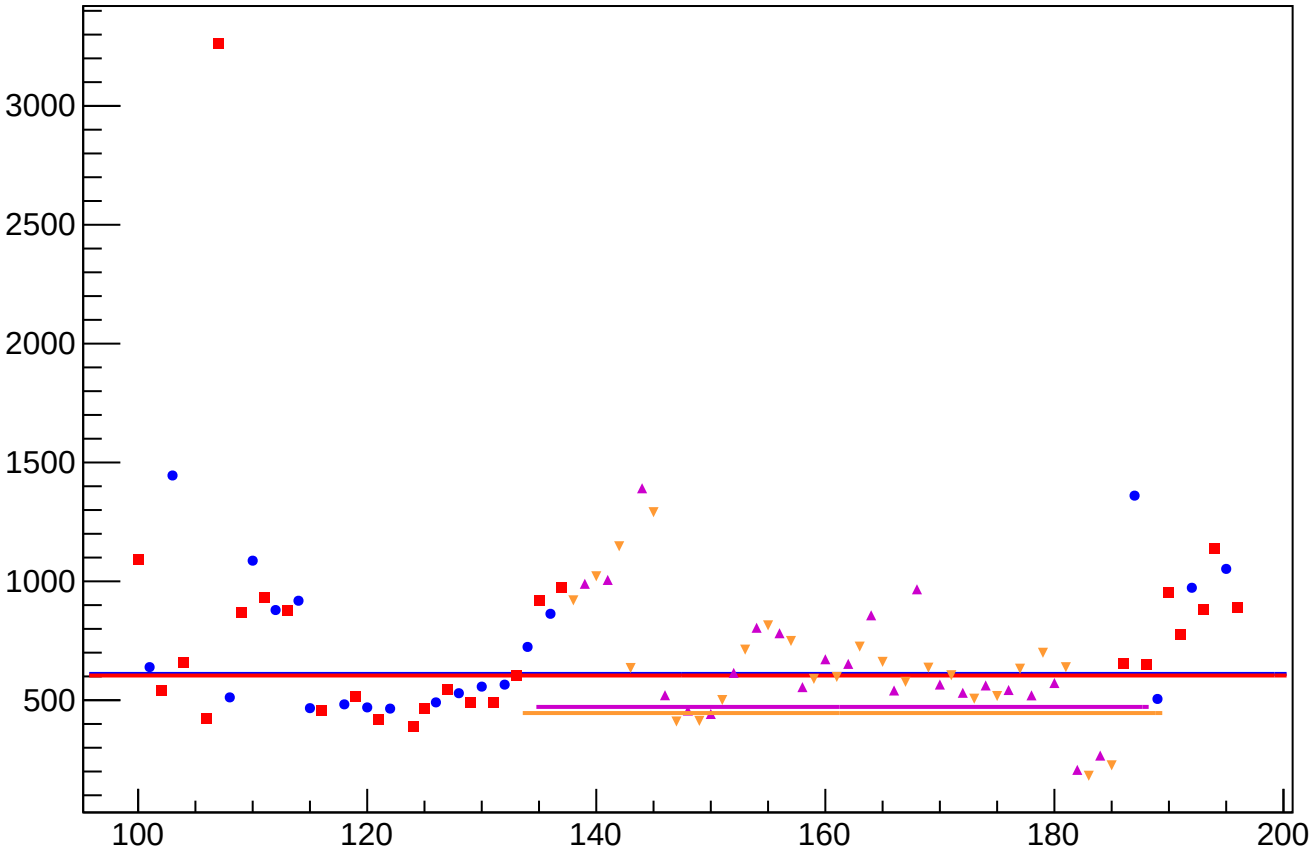
Left: -109.673+/-84.019 $\chi^2$/NDF: 48.6/47

Right: -200.384+/-143.387 $\chi^2$/NDF: 56.7/45

In: -76.622+/-106.075 $\chi^2$/NDF:33.8/42

Out: -182.135+/-99.296 $\chi^2$/NDF:71.3/50

All: -132.858+/-72.491 $\chi^2$/NDF: 105.6/93




Right In: 610.504+/-0.149 $\chi^2$/NDF: 1729118.3/19

Left Out: 445.893+/-0.082 $\chi^2$/NDF:7982455.6/24

Right Out: 603.857+/-0.138 $\chi^2$/NDF: 2241622.5/25

Left In: 471.746+/-0.087 $\chi^2$/NDF:6413905.5/22

Left: 458.017+/-0.059 $\chi^2$/NDF: 14443518.4/47

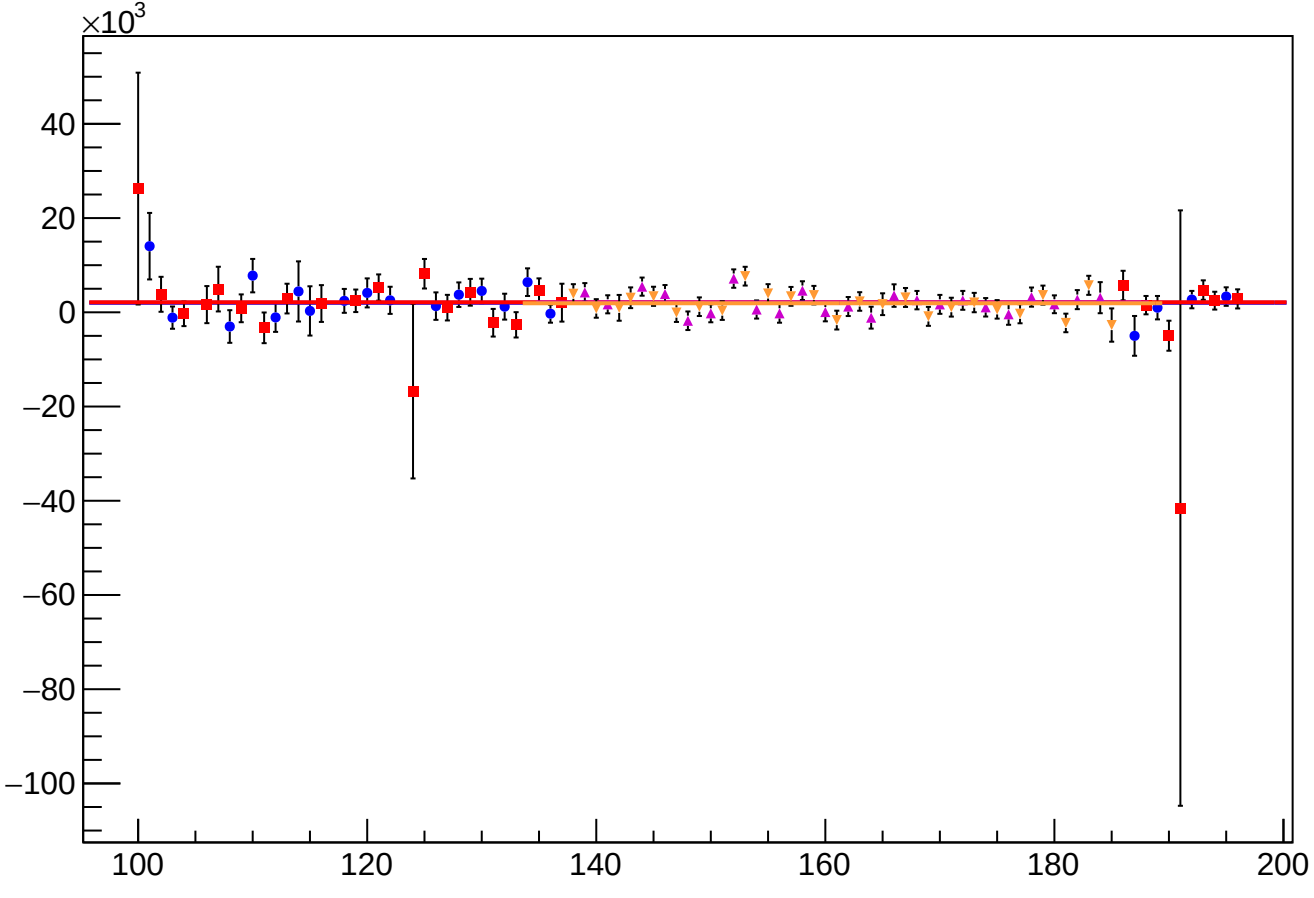
Right: 606.924+/-0.101 $\chi^2$/NDF: 3971808.7/45

In: 506.785+/-0.075 $\chi^2$/NDF:8789001.2/42

Out: 486.693+/-0.070 $\chi^2$/NDF:11193748.1/50

All: 496.076+/-0.051 $\chi^2$/NDF: 20020993.5/93

# cor_asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2025.113+/-618.307 $\chi^2$/NDF: 20.0/19

Left Out: 1920.588+/-412.915 $\chi^2$/NDF:32.5/24

Right Out: 2127.438+/-571.724 $\chi^2$/NDF: 27.1/25

Left In: 2074.306+/-423.203 $\chi^2$/NDF:26.5/22

Left: 1995.556+/-295.545 $\chi^2$/NDF: 59.1/47

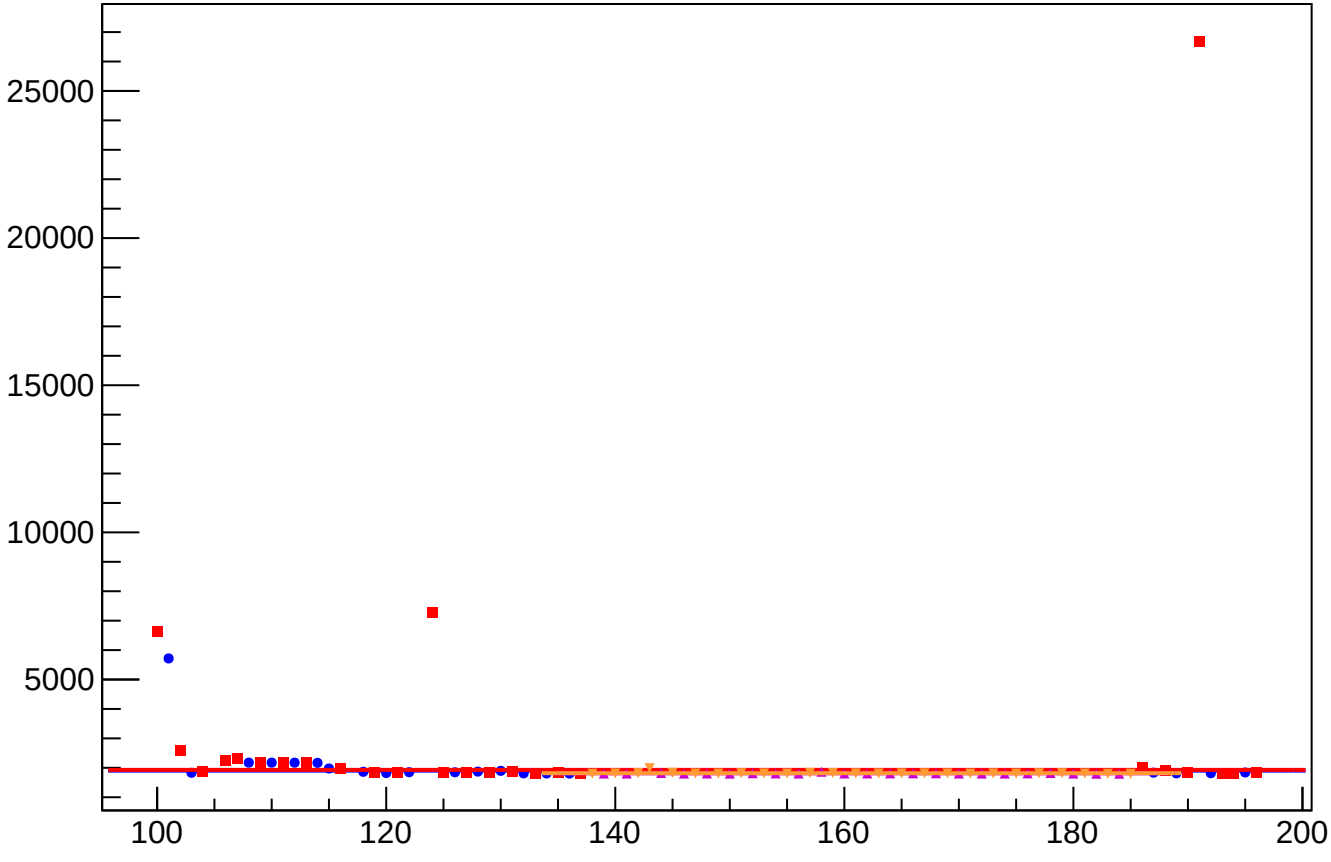
Right: 2080.275+/-419.773 $\chi^2$/NDF: 47.0/45

In: 2058.612+/-349.233 $\chi^2$/NDF:46.5/42

Out: 1991.497+/-334.740 $\chi^2$/NDF:59.7/50

All: 2023.633+/-241.658 $\chi^2$/NDF: 106.2/93

# cor_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1904.283+/-0.437 $\chi^2$/NDF: 651950.8/19

Left Out: 1817.524+/-0.292 $\chi^2$/NDF:12955.2/24

Right Out: 1929.546+/-0.404 $\chi^2$/NDF: 718965.8/25

Left In: 1812.545+/-0.299 $\chi^2$/NDF:2013.0/22

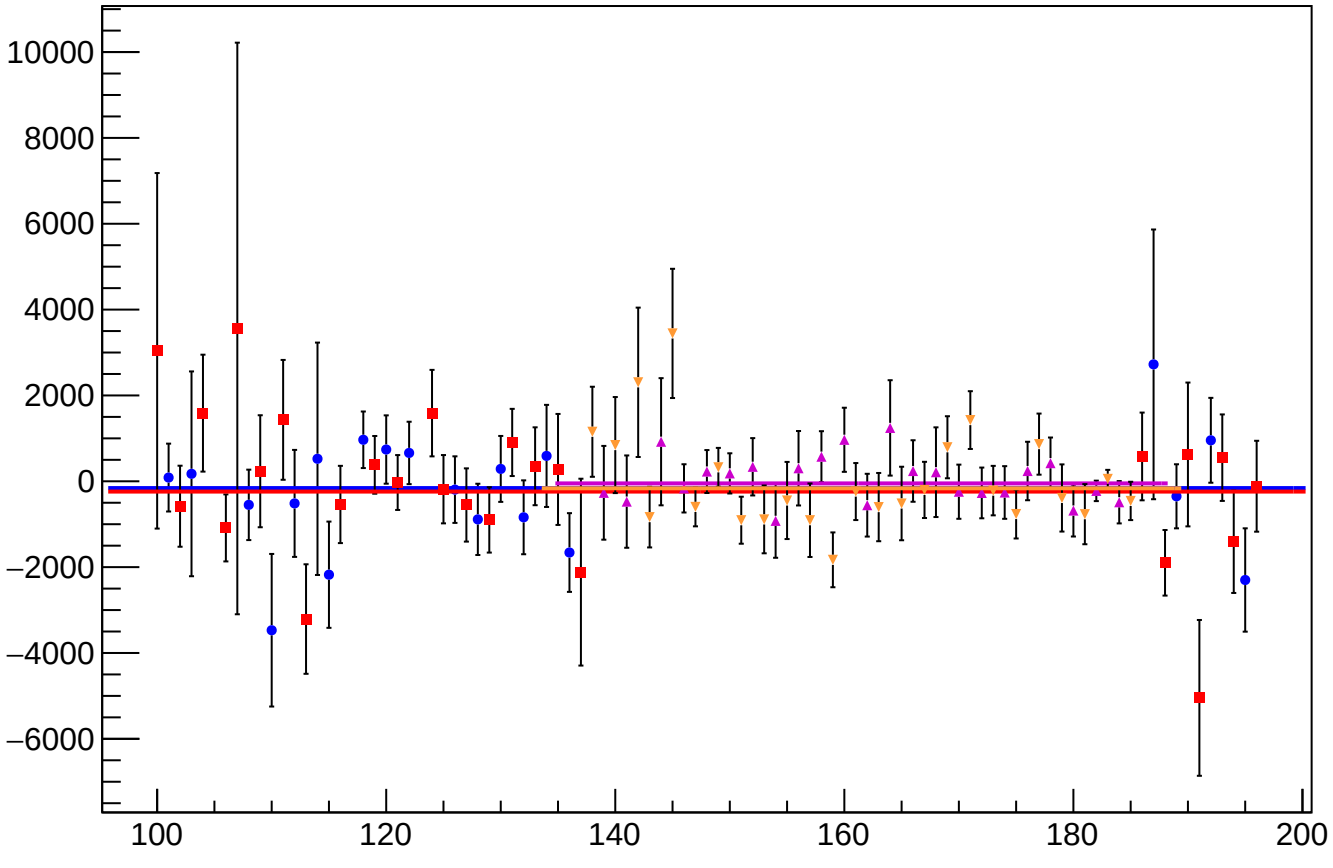
Left: 1815.096+/-0.209 $\chi^2$/NDF: 15110.1/47

Right: 1917.902+/-0.297 $\chi^2$/NDF: 1372716.4/45

In: 1841.812+/-0.247 $\chi^2$/NDF:683945.7/42

Out: 1855.926+/-0.237 $\chi^2$/NDF:782382.3/50

All: 1849.167+/-0.171 $\chi^2$/NDF: 1468030.5/93




Right In: -158.207+/-211.051 $\chi^2$/NDF: 22.2/19

Left Out: -162.911+/-115.291 $\chi^2$/NDF:36.9/24

Right Out: -239.747+/-195.278 $\chi^2$/NDF: 34.0/25

Left In: -49.310+/-122.694 $\chi^2$/NDF:11.3/22

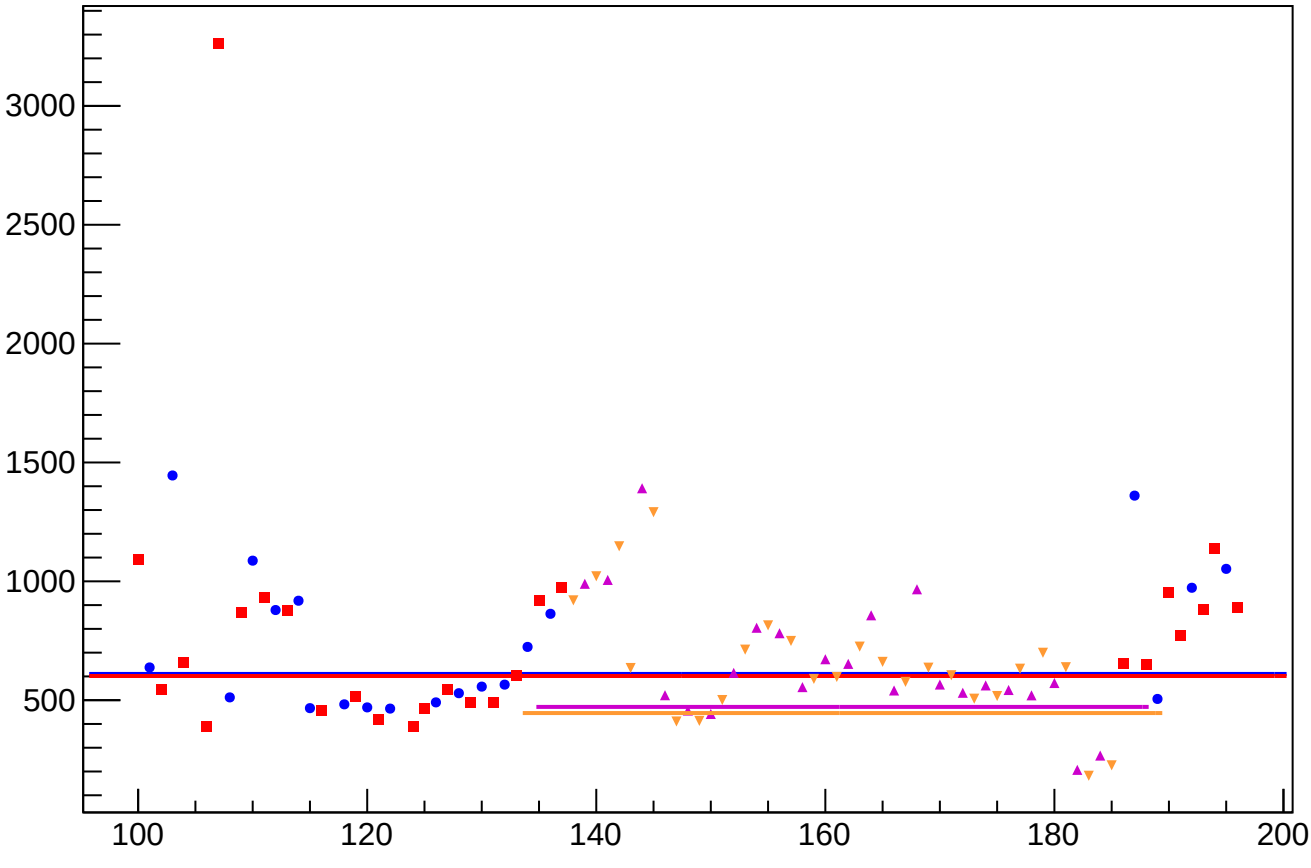
Left: -109.640+/-84.018 $\chi^2$/NDF: 48.6/47

Right: -202.137+/-143.335 $\chi^2$/NDF: 56.3/45

In: -76.816+/-106.072 $\chi^2$/NDF:33.8/42

Out: -182.771+/-99.280 $\chi^2$/NDF:71.0/50

All: -133.294+/-72.484 $\chi^2$/NDF: 105.3/93




Right In: 610.417+/-0.149 $\chi^2$/NDF: 1728948.7/19

Left Out: 445.867+/-0.082 $\chi^2$/NDF:7983869.6/24

Right Out: 601.772+/-0.138 $\chi^2$/NDF: 2285039.3/25

Left In: 471.757+/-0.087 $\chi^2$/NDF:6413685.0/22

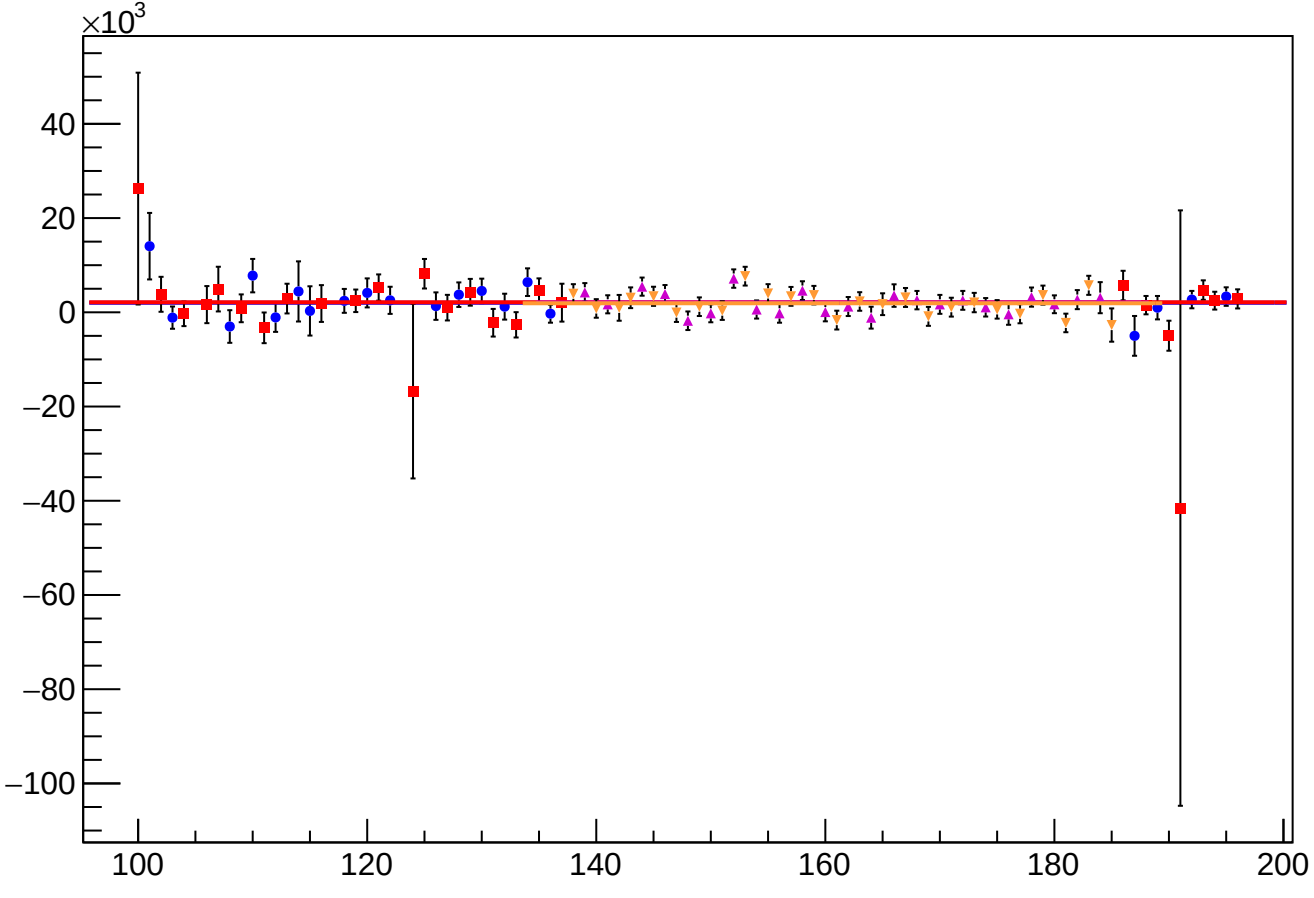
Left: 458.008+/-0.059 $\chi^2$/NDF: 14444849.4/47

Right: 605.760+/-0.101 $\chi^2$/NDF: 4015795.7/45

In: 506.782+/-0.075 $\chi^2$/NDF:8787857.4/42

Out: 486.164+/-0.070 $\chi^2$/NDF:11214215.7/50

All: 495.792+/-0.051 $\chi^2$/NDF: 20042351.0/93




Right In: 2025.113+/-618.307 $\chi^2$/NDF: 20.0/19

Left Out: 1920.588+/-412.915 $\chi^2$/NDF:32.5/24

Right Out: 2127.438+/-571.724 $\chi^2$/NDF: 27.1/25

Left In: 2074.306+/-423.203 $\chi^2$/NDF:26.5/22

Left: 1995.556+/-295.545 $\chi^2$/NDF: 59.1/47

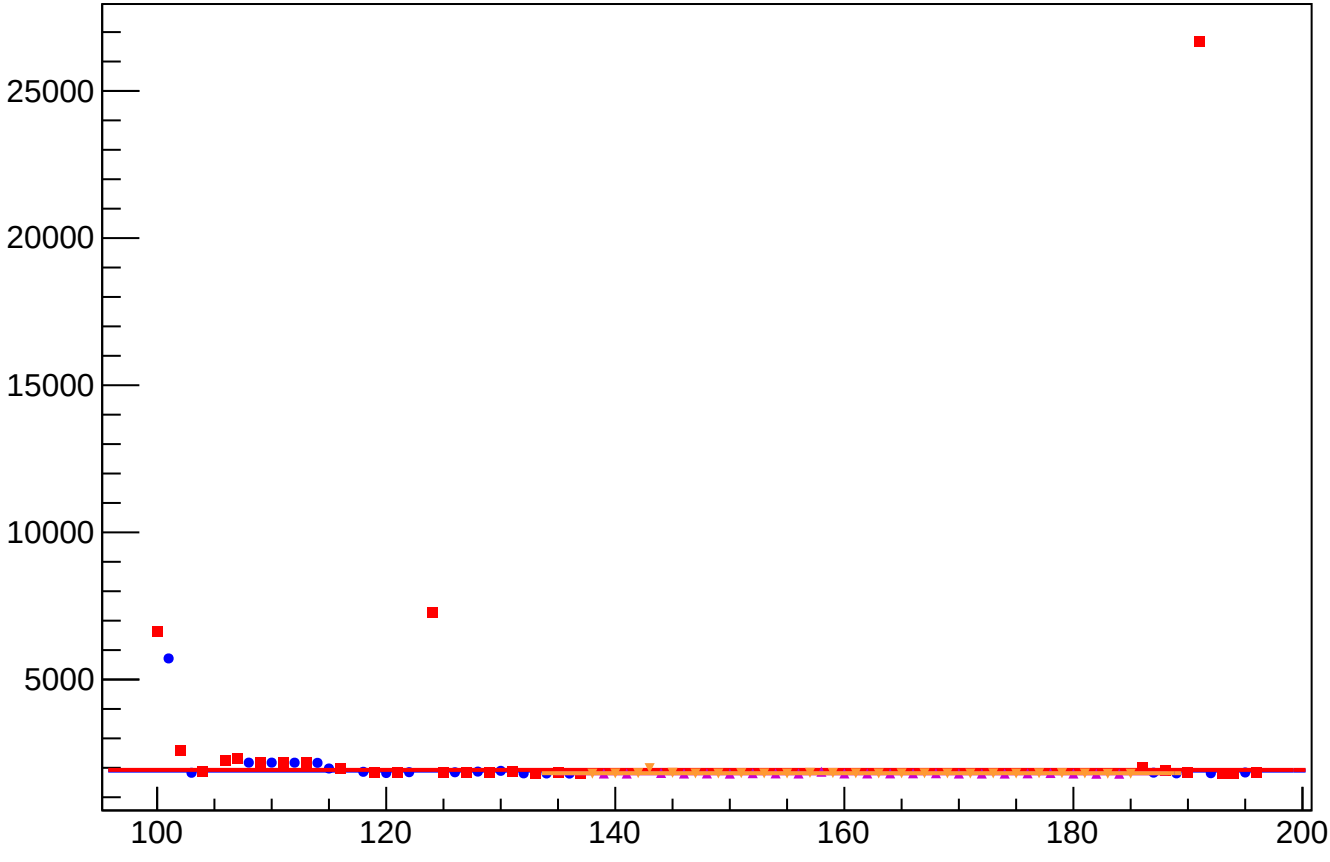
Right: 2080.275+/-419.773 $\chi^2$/NDF: 47.0/45

In: 2058.612+/-349.233 $\chi^2$/NDF:46.5/42

Out: 1991.497+/-334.740 $\chi^2$/NDF:59.7/50

All: 2023.633+/-241.658 $\chi^2$/NDF: 106.2/93

# eigen_cor_asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 1904.283+/-0.437 $\chi^2$/NDF: 651950.8/19

Left Out: 1817.524+/-0.292 $\chi^2$/NDF:12955.2/24

Right Out: 1929.546+/-0.404 $\chi^2$/NDF: 718965.8/25

Left In: 1812.545+/-0.299 $\chi^2$/NDF:2013.0/22

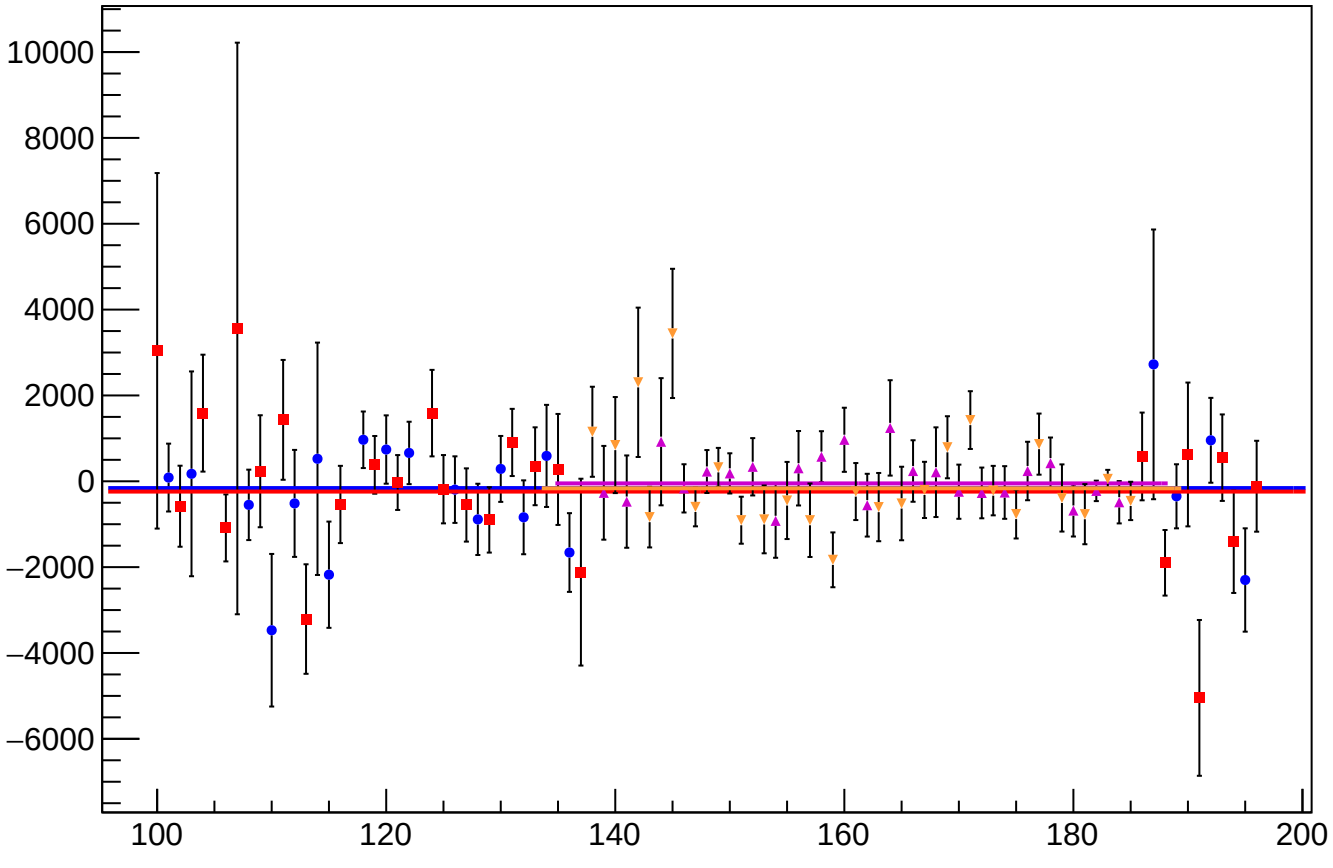
Left: 1815.096+/-0.209 $\chi^2$/NDF: 15110.1/47

Right: 1917.902+/-0.297 $\chi^2$/NDF: 1372716.4/45

In: 1841.812+/-0.247 $\chi^2$/NDF:683945.7/42

Out: 1855.926+/-0.237 $\chi^2$/NDF:782382.3/50

All: 1849.167+/-0.171 $\chi^2$/NDF: 1468030.5/93




Right In: -158.207+/-211.051 $\chi^2$/NDF: 22.2/19

Left Out: -162.911+/-115.291 $\chi^2$/NDF:36.9/24

Right Out: -239.747+/-195.278 $\chi^2$/NDF: 34.0/25

Left In: -49.310+/-122.694 $\chi^2$/NDF:11.3/22

Left: -109.640+/-84.018 $\chi^2$/NDF: 48.6/47

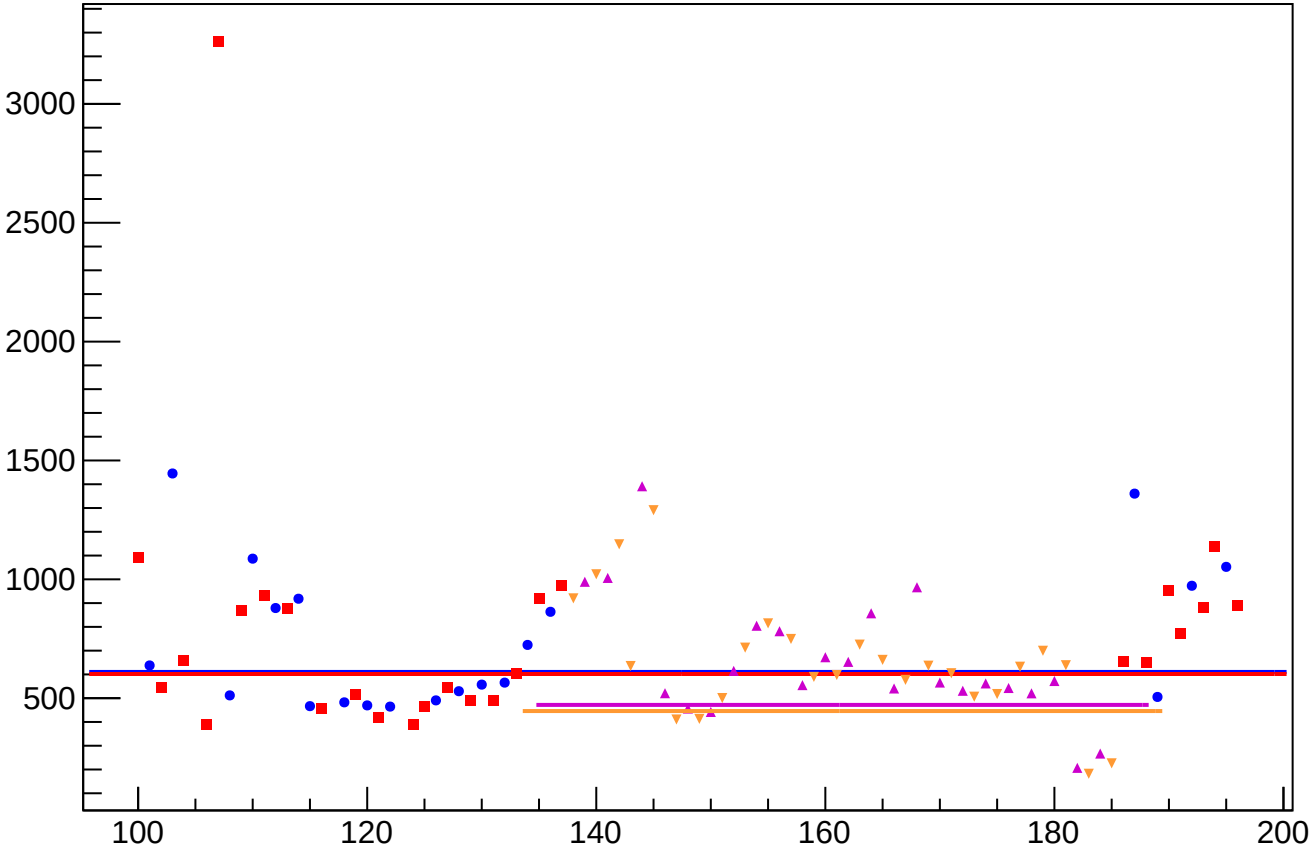
Right: -202.137+/-143.335 $\chi^2$/NDF: 56.3/45

In: -76.816+/-106.072 $\chi^2$/NDF:33.8/42

Out: -182.771+/-99.280 $\chi^2$/NDF:71.0/50

All: -133.294+/-72.484 $\chi^2$/NDF: 105.3/93

asym_at1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 610.417+/-0.149 $\chi^2$/NDF: 1728948.7/19

Left Out: 445.867+/-0.082 $\chi^2$/NDF:7983869.6/24

Right Out: 601.772+/-0.138 $\chi^2$/NDF: 2285039.3/25

Left In: 471.757+/-0.087 $\chi^2$/NDF:6413685.0/22

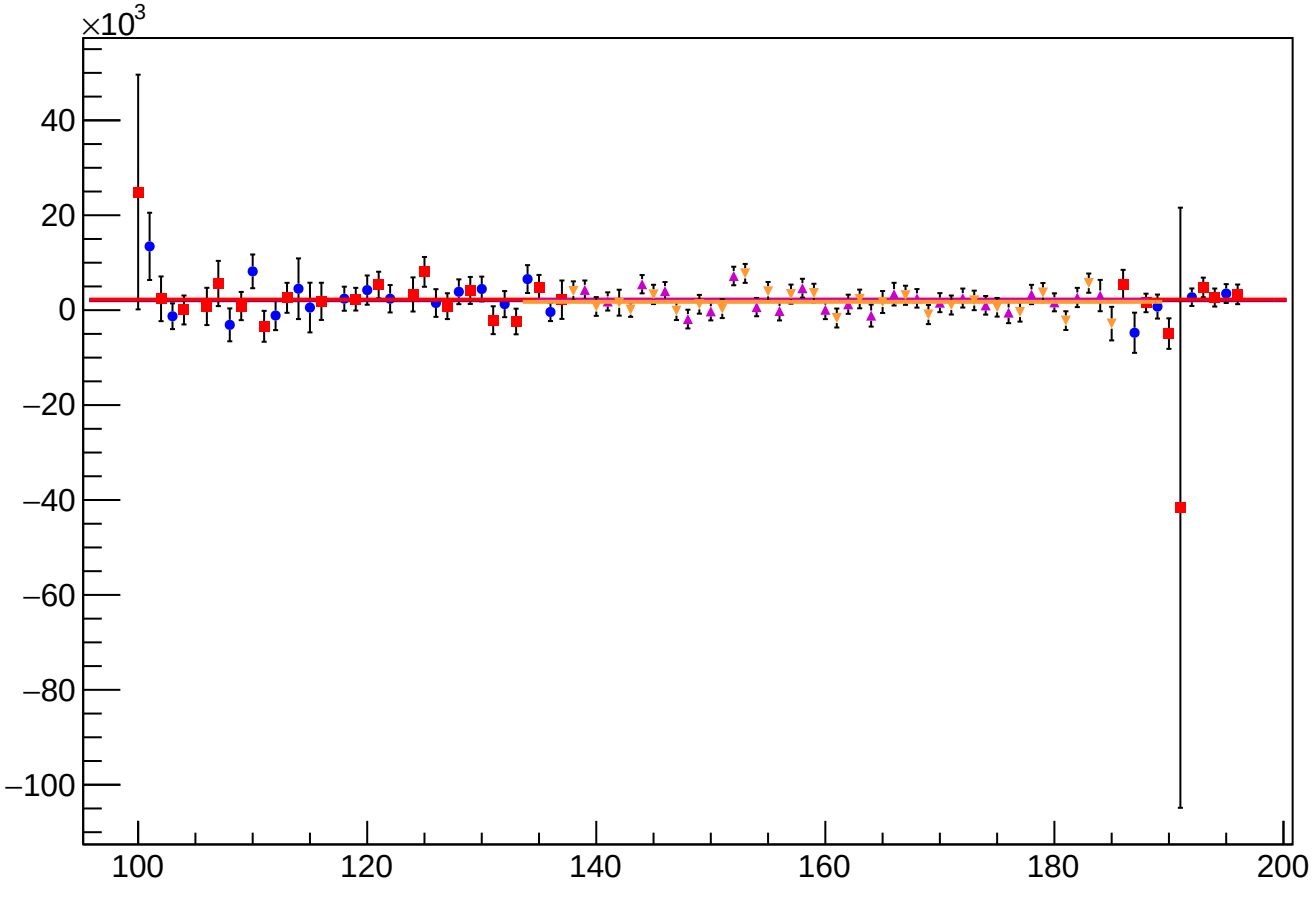
Left: 458.008+/-0.059 $\chi^2$/NDF: 14444849.4/47

Right: 605.760+/-0.101 $\chi^2$/NDF: 4015795.7/45

In: 506.782+/-0.075 $\chi^2$/NDF:8787857.4/42

Out: 486.164+/-0.070 $\chi^2$/NDF:11214215.7/50

All: 495.792+/-0.051 $\chi^2$/NDF: 20042351.0/93




Right In: 2099.103+/-625.685 $\chi^2$/NDF: 20.0/19

Left Out: 1755.493+/-405.401 $\chi^2$/NDF:33.8/24

Right Out: 2224.630+/-573.026 $\chi^2$/NDF: 25.3/25

Left In: 2073.441+/-423.648 $\chi^2$/NDF:27.0/22

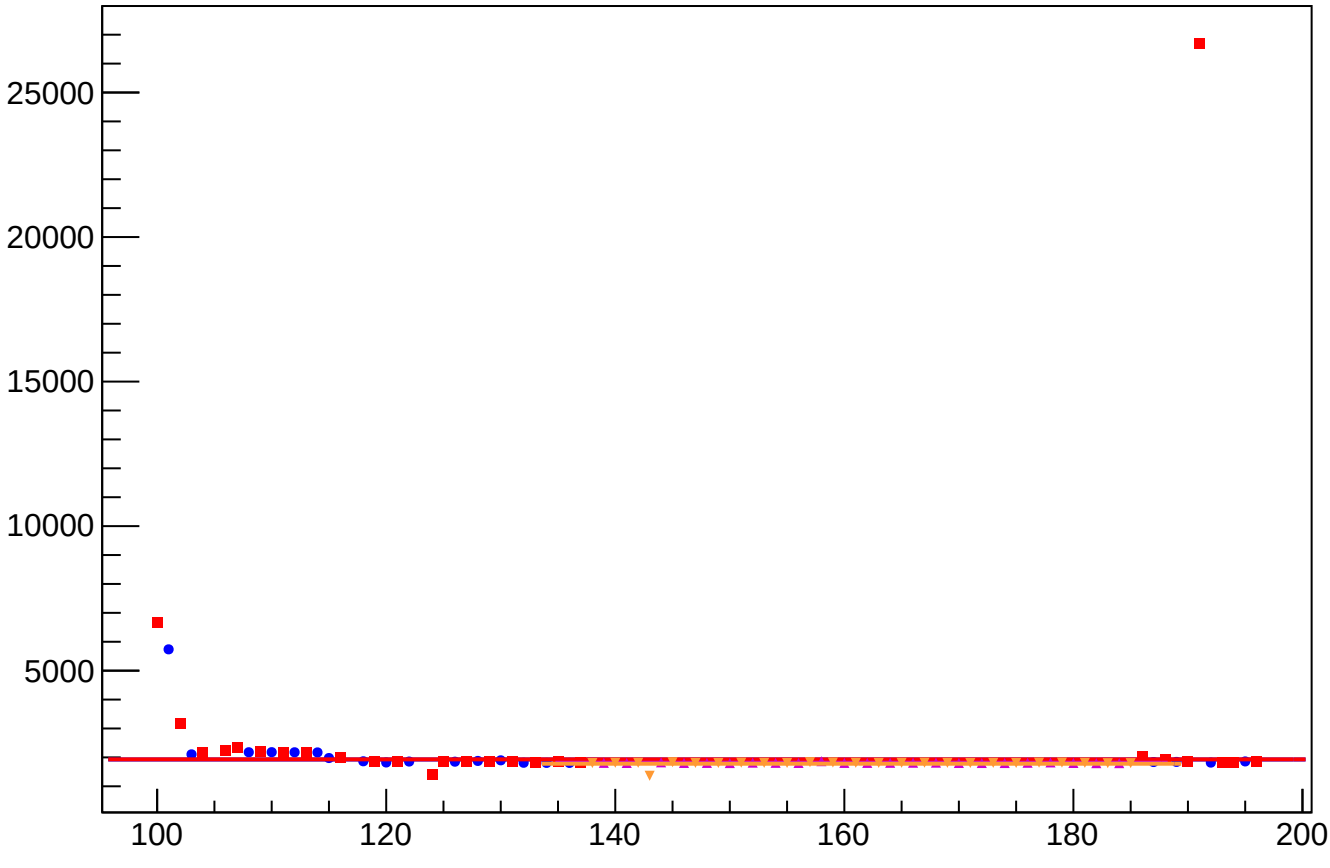
Left: 1907.472+/-292.900 $\chi^2$/NDF: 61.1/47

Right: 2167.371+/-422.583 $\chi^2$/NDF: 45.3/45

In: 2081.507+/-350.799 $\chi^2$/NDF:47.0/42

Out: 1911.980+/-330.951 $\chi^2$/NDF:59.5/50

All: 1991.813+/-240.729 $\chi^2$/NDF: 106.7/93




Right In: 1926.642+/-0.442 $\chi^2$/NDF: 657055.5/19

Left Out: 1780.913+/-0.287 $\chi^2$/NDF:164936.9/24

Right Out: 1932.177+/-0.405 $\chi^2$/NDF: 678180.8/25

Left In: 1814.434+/-0.300 $\chi^2$/NDF:2094.6/22

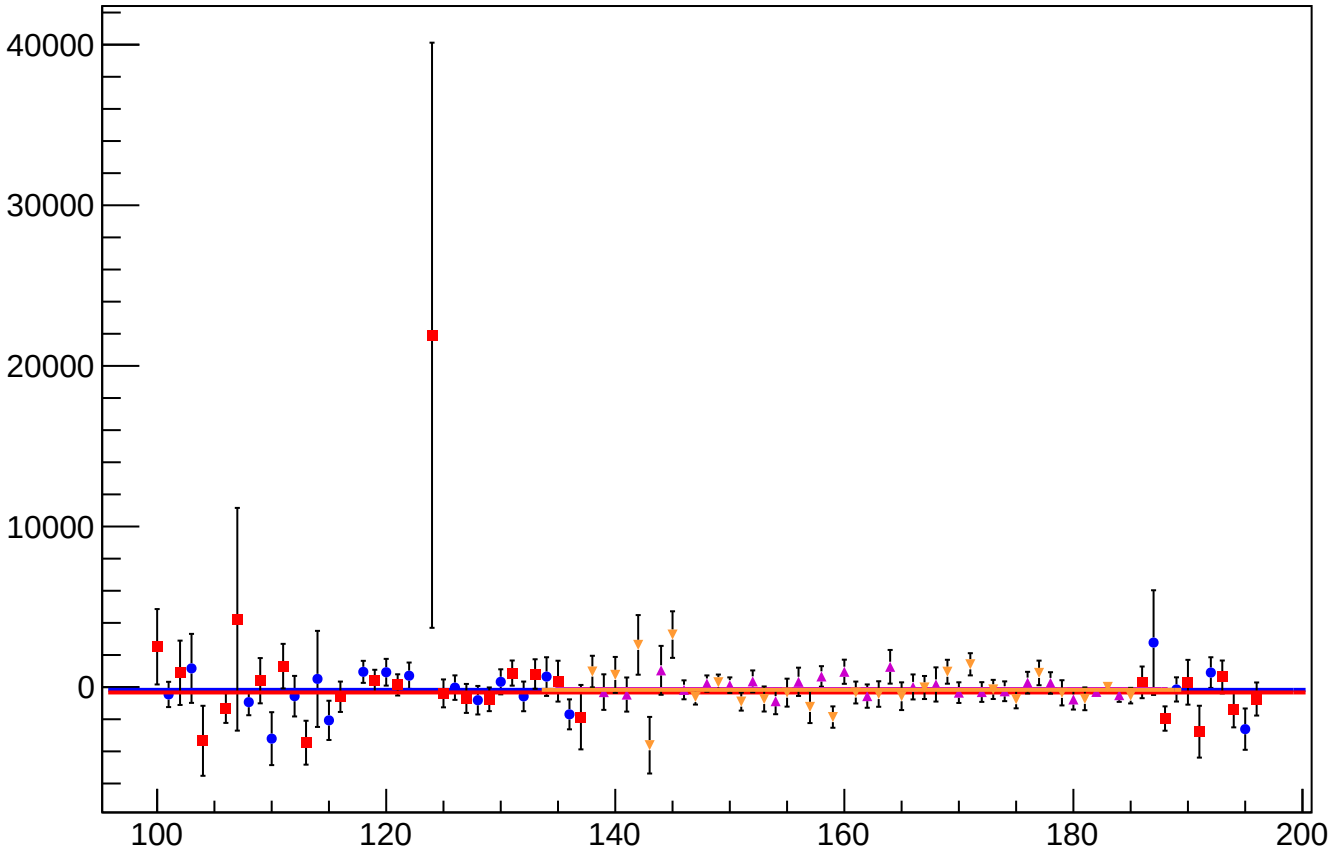
Left: 1796.936+/-0.207 $\chi^2$/NDF: 173567.7/47

Right: 1929.652+/-0.299 $\chi^2$/NDF: 1335321.4/45

In: 1849.706+/-0.248 $\chi^2$/NDF:703253.1/42

Out: 1831.370+/-0.234 $\chi^2$/NDF:935995.4/50

All: 1840.004+/-0.170 $\chi^2$/NDF: 1642139.7/93




Right In: -169.278+/-216.300 $\chi^2$/NDF: 22.9/19

Left Out: -167.909+/-121.628 $\chi^2$/NDF:38.3/24

Right Out: -332.234+/-206.971 $\chi^2$/NDF: 30.2/25

Left In: -117.211+/-119.772 $\chi^2$/NDF:12.3/22

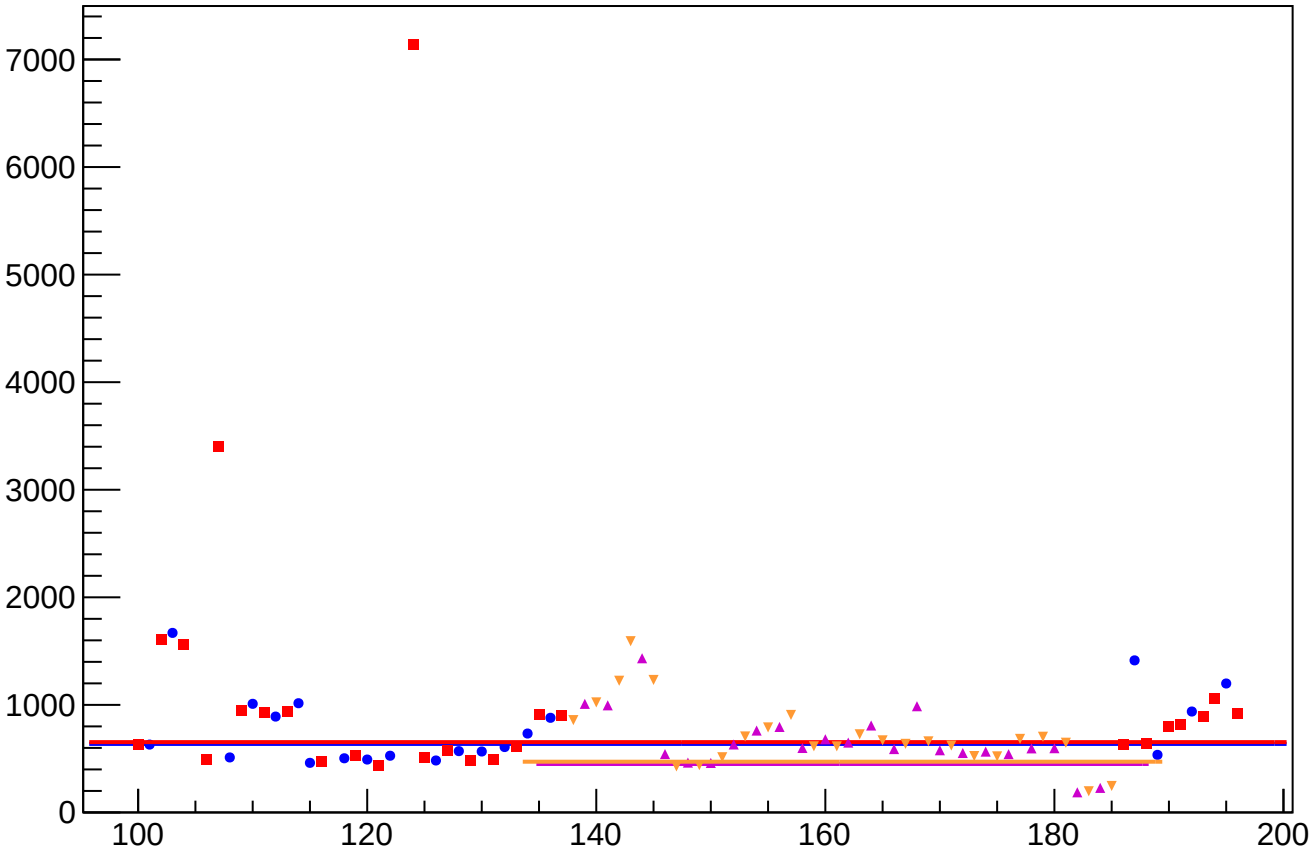
Left: -142.170+/-85.340 $\chi^2$/NDF: 50.7/47

Right: -254.346+/-149.540 $\chi^2$/NDF: 53.4/45

In: -129.429+/-104.780 $\chi^2$/NDF:35.3/42

Out: -210.090+/-104.862 $\chi^2$/NDF:69.0/50

All: -169.728+/-74.120 $\chi^2$/NDF: 104.5/93




Right In: 637.095+/-0.153 $\chi^2$/NDF: 1928836.4/19

Left Out: 471.777+/-0.086 $\chi^2$/NDF:8112666.9/24

Right Out: 653.857+/-0.146 $\chi^2$/NDF: 2977212.6/25

Left In: 450.652+/-0.085 $\chi^2$/NDF:7928332.5/22

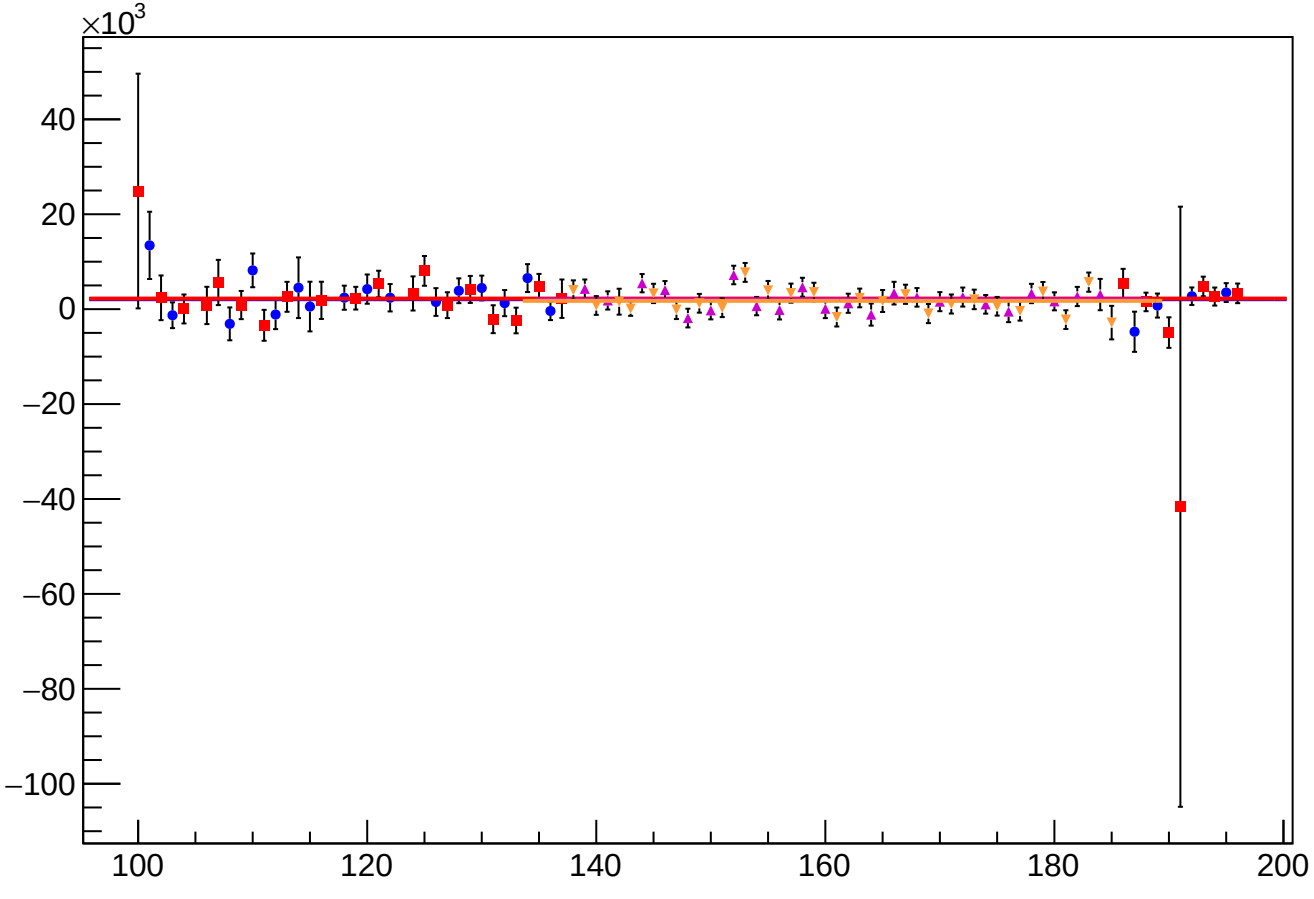
Left: 461.052+/-0.060 $\chi^2$/NDF: 16071629.8/47

Right: 645.845+/-0.106 $\chi^2$/NDF: 4912319.0/45

In: 494.404+/-0.074 $\chi^2$/NDF:10994433.8/42

Out: 518.516+/-0.074 $\chi^2$/NDF:12240421.6/50

All: 506.450+/-0.052 $\chi^2$/NDF: 23287771.0/93




Right In: 2099.102+/-625.685 $\chi^2$/NDF: 20.0/19

Left Out: 1755.493+/-405.401 $\chi^2$/NDF:33.8/24

Right Out: 2224.628+/-573.026 $\chi^2$/NDF: 25.3/25

Left In: 2073.441+/-423.648 $\chi^2$/NDF:27.0/22

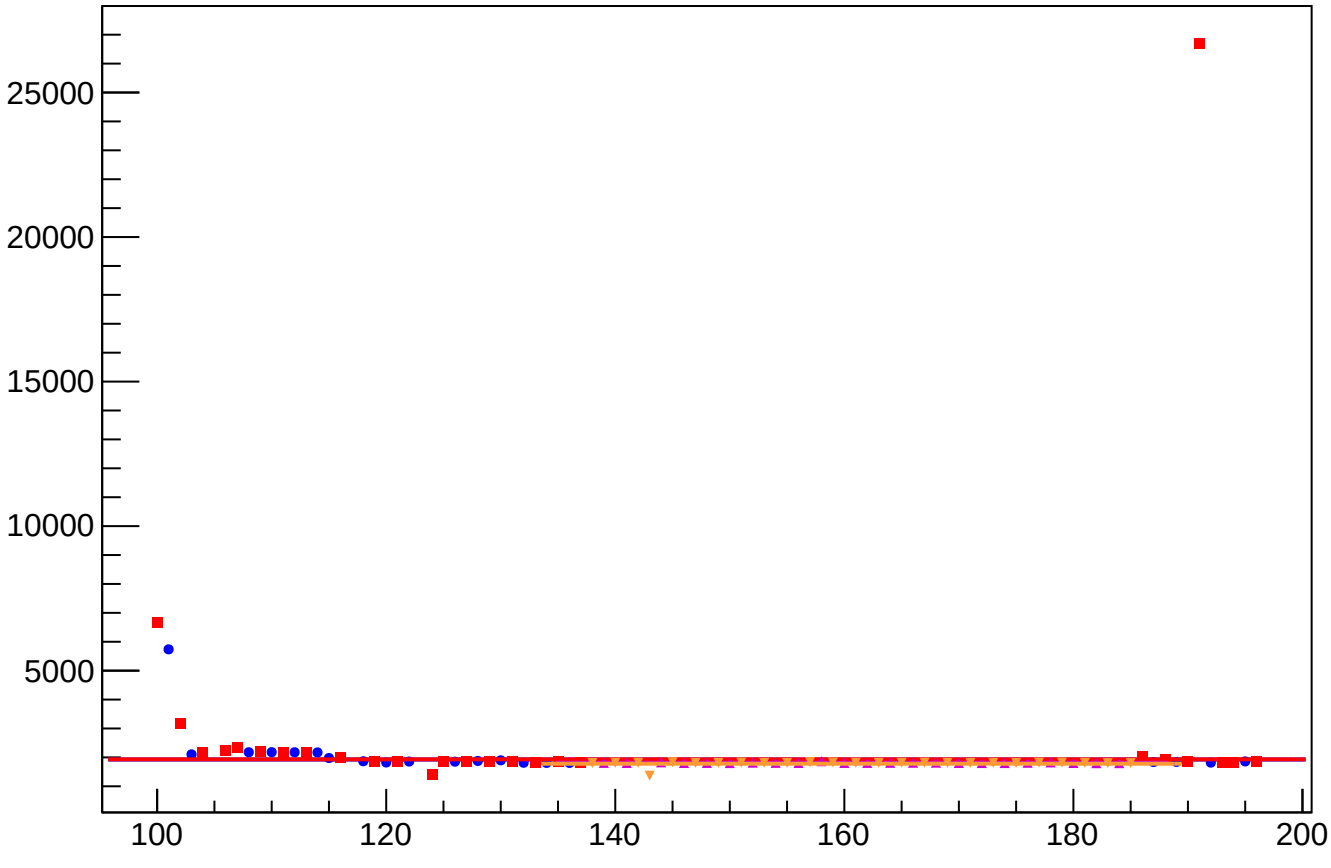
Left: 1907.473+/-292.900 $\chi^2$/NDF: 61.1/47

Right: 2167.368+/-422.583 $\chi^2$/NDF: 45.3/45

In: 2081.507+/-350.799 $\chi^2$/NDF:47.0/42

Out: 1911.980+/-330.951 $\chi^2$/NDF:59.5/50

All: 1991.812+/-240.729 $\chi^2$/NDF: 106.7/93




Right In: 1926.642+/-0.442 $\chi^2$/NDF: 657055.1/19

Left Out: 1780.913+/-0.287 $\chi^2$/NDF:164936.9/24

Right Out: 1932.177+/-0.405 $\chi^2$/NDF: 678179.4/25

Left In: 1814.434+/-0.300 $\chi^2$/NDF:2094.6/22

Left: 1796.936+/-0.207 $\chi^2$/NDF: 173567.7/47

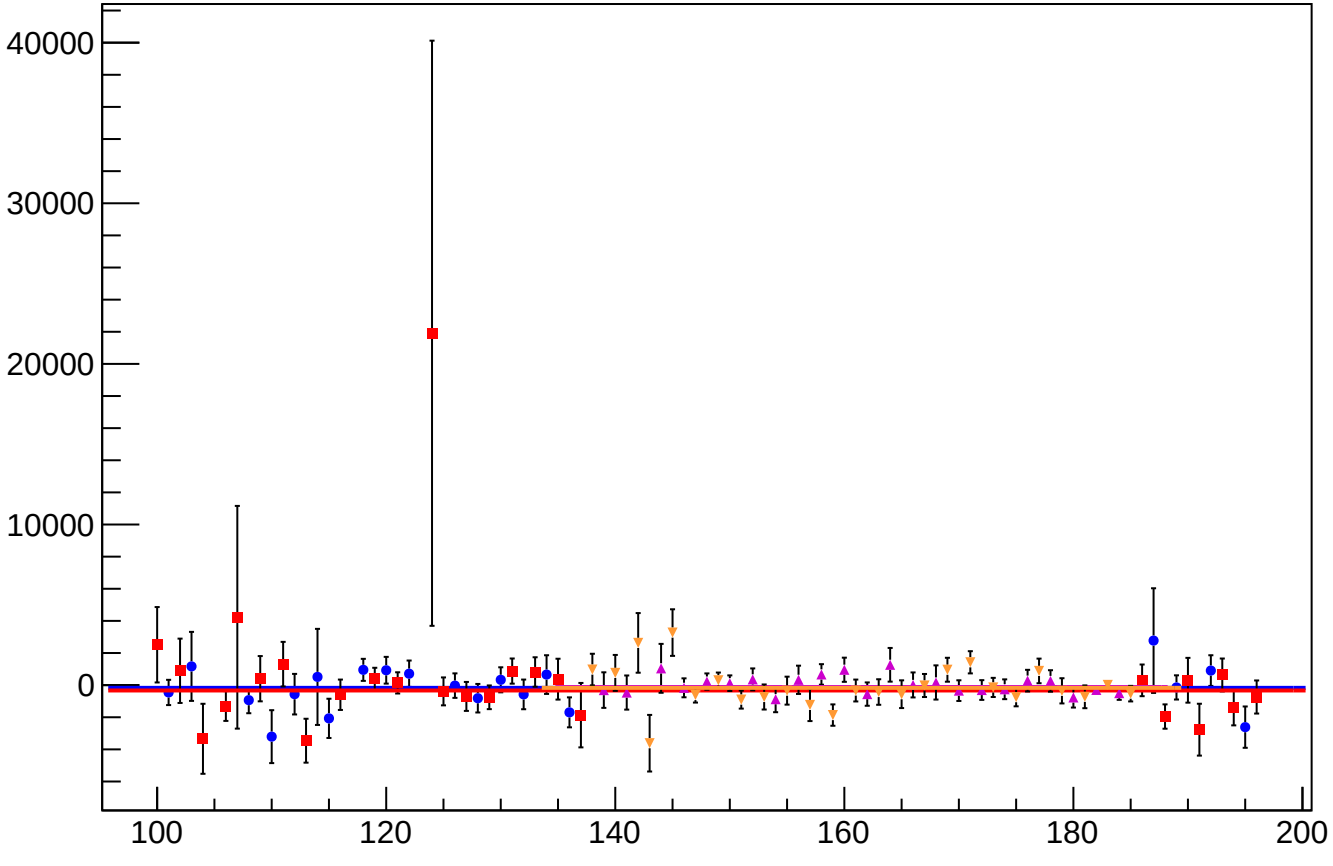
Right: 1929.652+/-0.299 $\chi^2$/NDF: 1335319.7/45

In: 1849.706+/-0.248 $\chi^2$/NDF:703252.7/42

Out: 1831.370+/-0.234 $\chi^2$/NDF:935993.8/50

All: 1840.004+/-0.170 $\chi^2$/NDF: 1642137.6/93

asym_at1_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -169.278+/-216.299 $\chi^2$/NDF: 22.9/19

Left Out: -167.909+/-121.629 $\chi^2$/NDF:38.3/24

Right Out: -332.234+/-206.971 $\chi^2$/NDF: 30.2/25

Left In: -117.211+/-119.772 $\chi^2$/NDF:12.3/22

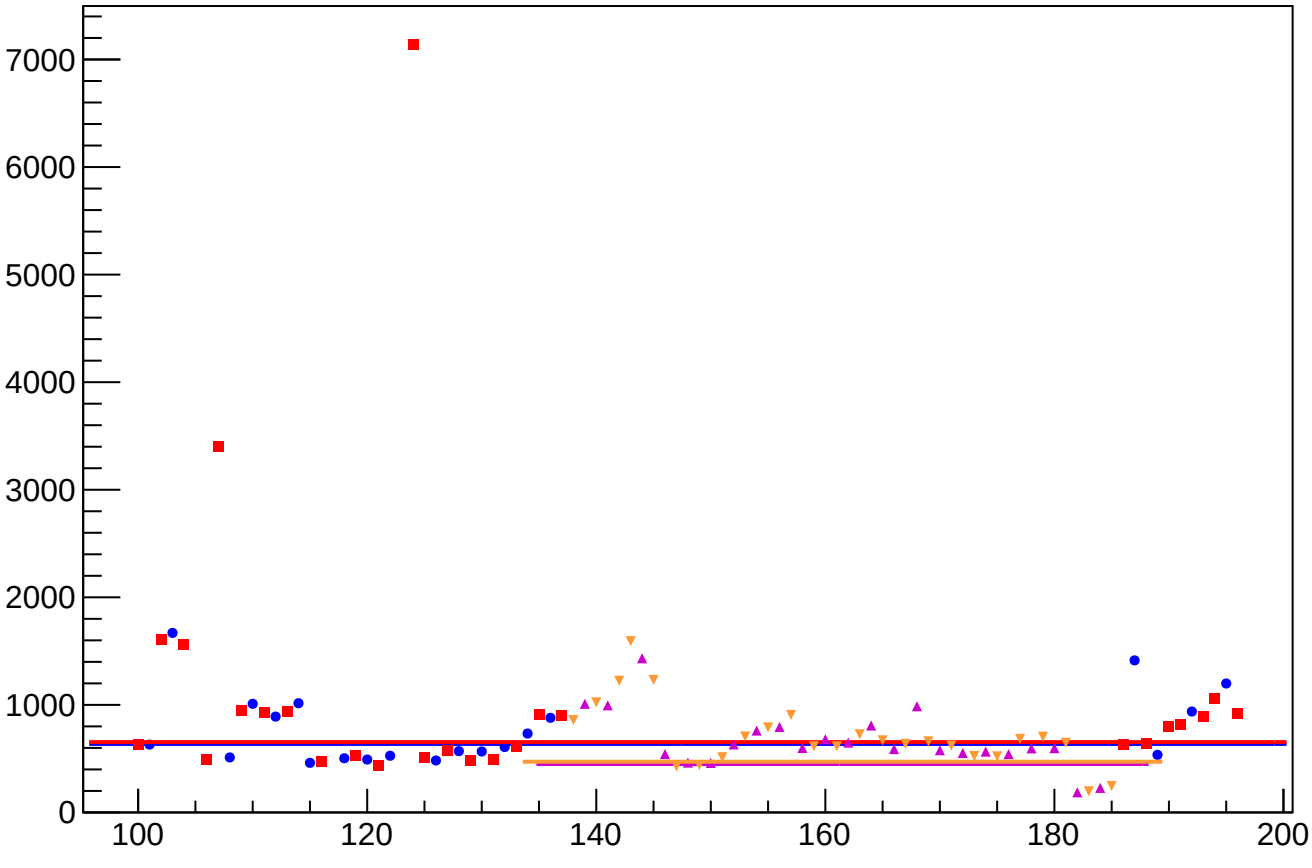
Left: -142.170+/-85.340 $\chi^2$/NDF: 50.7/47

Right: -254.346+/-149.540 $\chi^2$/NDF: 53.4/45

In: -129.430+/-104.781 $\chi^2$/NDF:35.3/42

Out: -210.091+/-104.862 $\chi^2$/NDF:69.0/50

All: -169.729+/-74.120 $\chi^2$/NDF: 104.5/93




Right In: 637.094+/-0.153 $\chi^2$/NDF: 1928847.4/19

Left Out: 471.778+/-0.086 $\chi^2$/NDF:8112665.9/24

Right Out: 653.856+/-0.146 $\chi^2$/NDF: 2977226.7/25

Left In: 450.653+/-0.085 $\chi^2$/NDF:7928317.5/22

Left: 461.053+/-0.060 $\chi^2$/NDF: 16071613.1/47

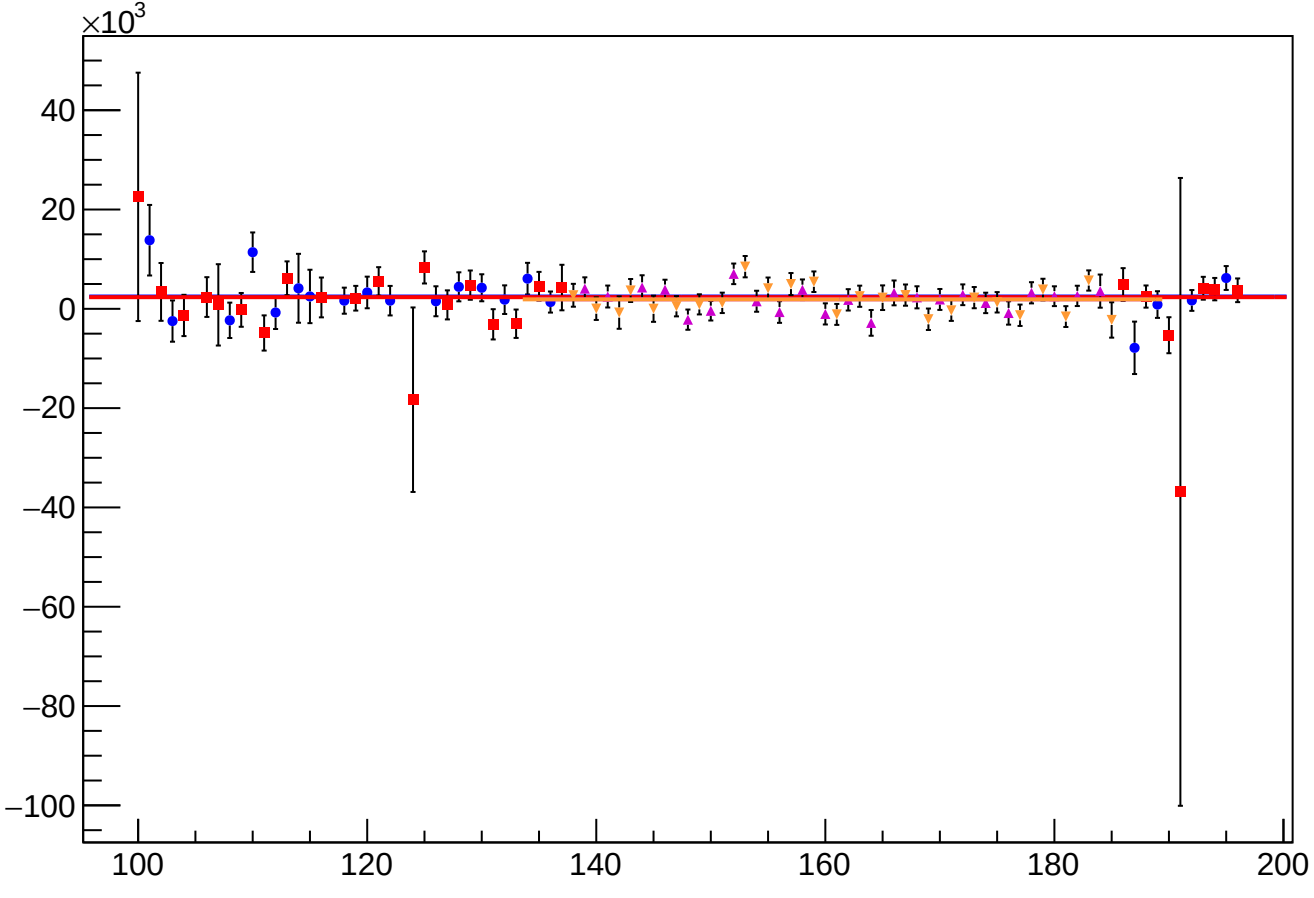
Right: 645.844+/-0.106 $\chi^2$/NDF: 4912344.4/45

In: 494.404+/-0.074 $\chi^2$/NDF:10994409.4/42

Out: 518.516+/-0.074 $\chi^2$/NDF:12240418.7/50

All: 506.451+/-0.052 $\chi^2$/NDF: 23287742.7/93

# asym_at1_avg_mean vs Slug, Sign Corrected




Right In: 2476.446+/-689.880 $\chi^2$/NDF: 21.4/19

Left Out: 1907.369+/-443.523 $\chi^2$/NDF:36.3/24

Right Out: 2346.627+/-642.633 $\chi^2$/NDF: 28.7/25

Left In: 1926.570+/-454.880 $\chi^2$/NDF:24.8/22

Left: 1916.727+/-317.557 $\chi^2$/NDF: 61.0/47

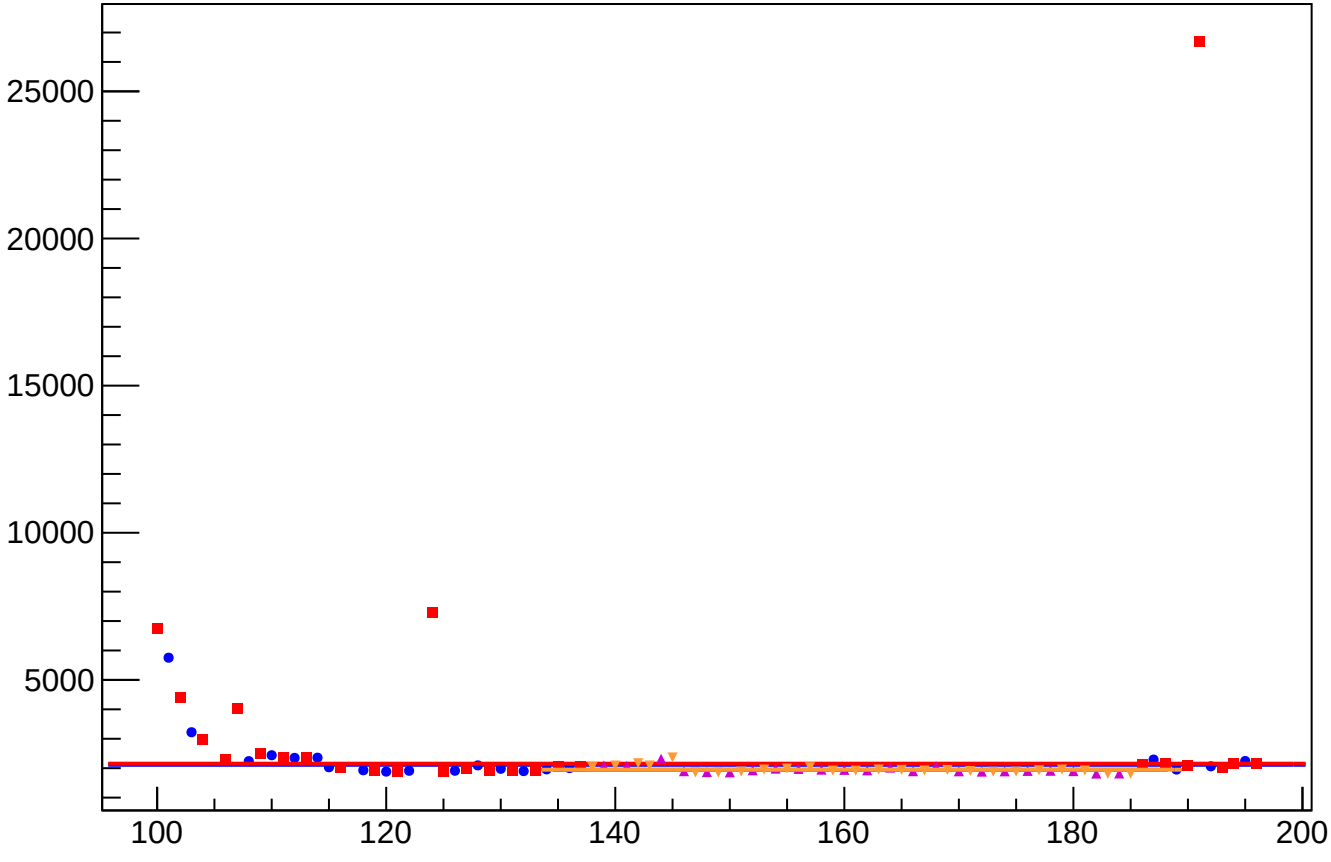
Right: 2406.940+/-470.227 $\chi^2$/NDF: 50.1/45

In: 2093.192+/-379.758 $\chi^2$/NDF:46.6/42

Out: 2049.093+/-365.027 $\chi^2$/NDF:65.3/50

All: 2070.270+/-263.167 $\chi^2$/NDF: 111.9/93

# asym_at1_avg_rms vs Slug, Sign Corrected




Right In: 2116.537+/-0.488 $\chi^2$/NDF: 776483.9/19

Left Out: 1949.001+/-0.314 $\chi^2$/NDF:108523.9/24

Right Out: 2152.758+/-0.454 $\chi^2$/NDF: 1137058.7/25

Left In: 1945.132+/-0.322 $\chi^2$/NDF:95954.5/22

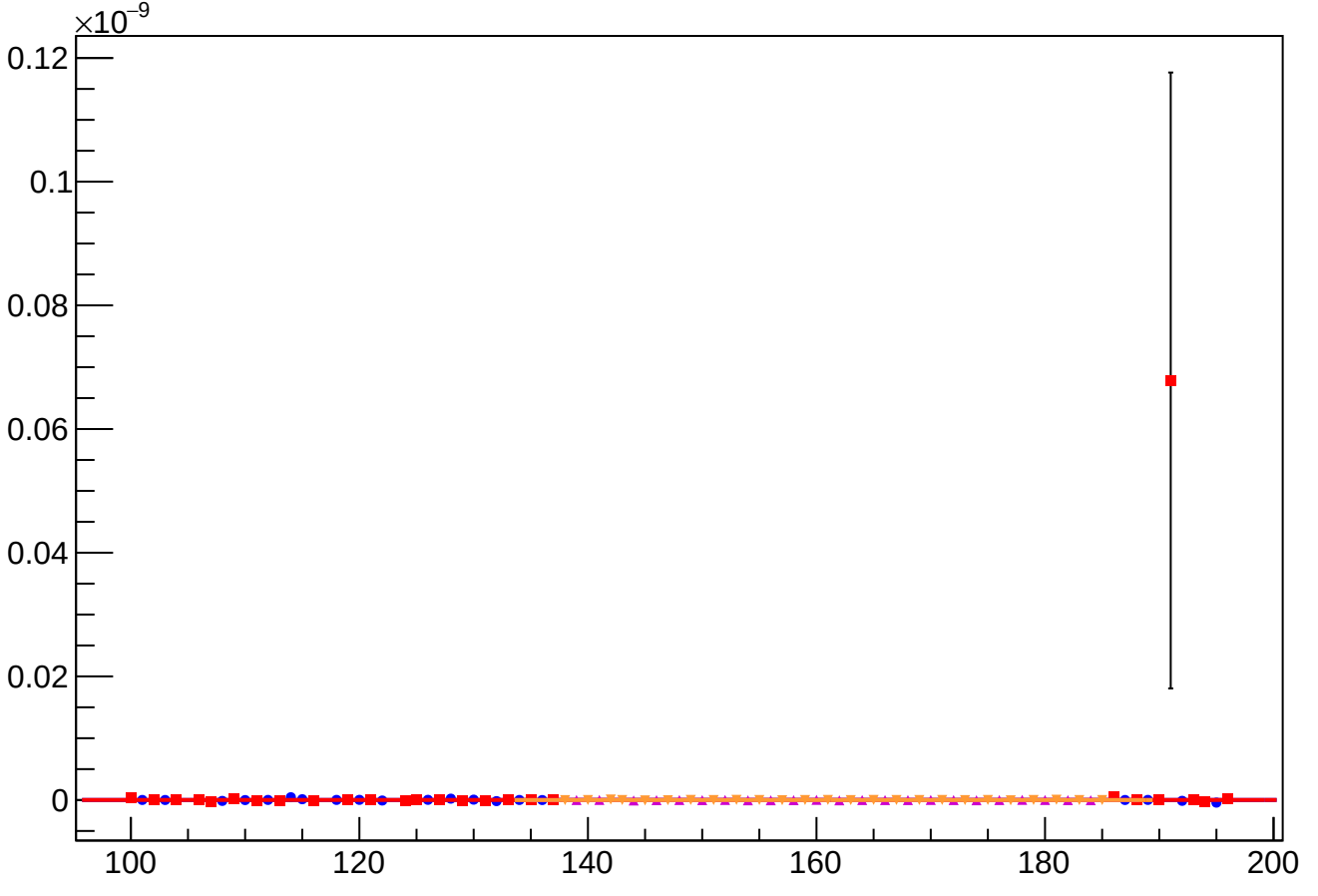
Left: 1947.116+/-0.225 $\chi^2$/NDF: 204552.7/47

Right: 2135.930+/-0.333 $\chi^2$/NDF: 1916494.5/45

In: 1997.071+/-0.269 $\chi^2$/NDF:958488.2/42

Out: 2014.742+/-0.258 $\chi^2$/NDF:1381773.2/50

All: 2006.256+/-0.186 $\chi^2$/NDF: 2342512.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:31.1/22

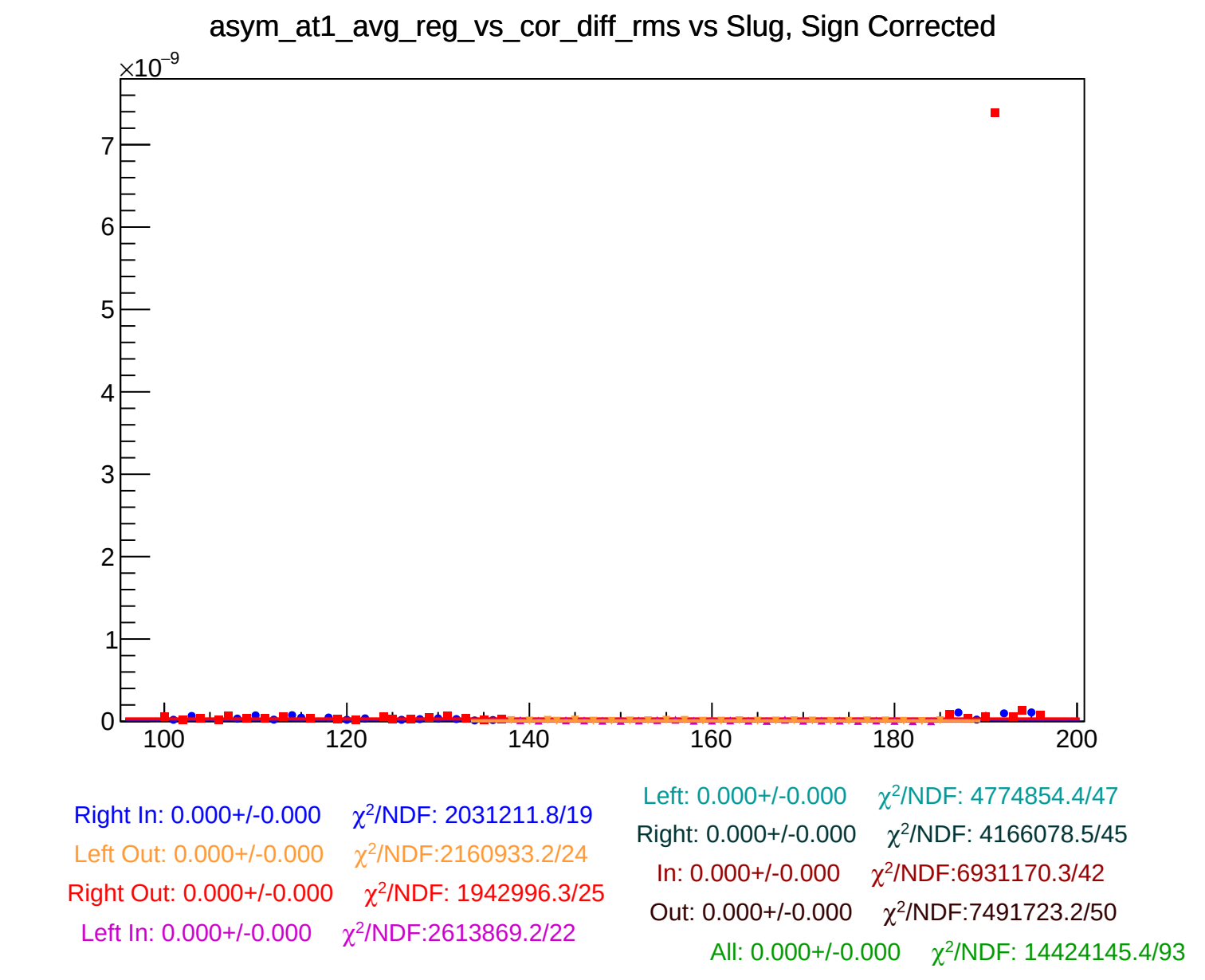
Left: -0.000+/-0.000 $\chi^2$/NDF: 60.4/47

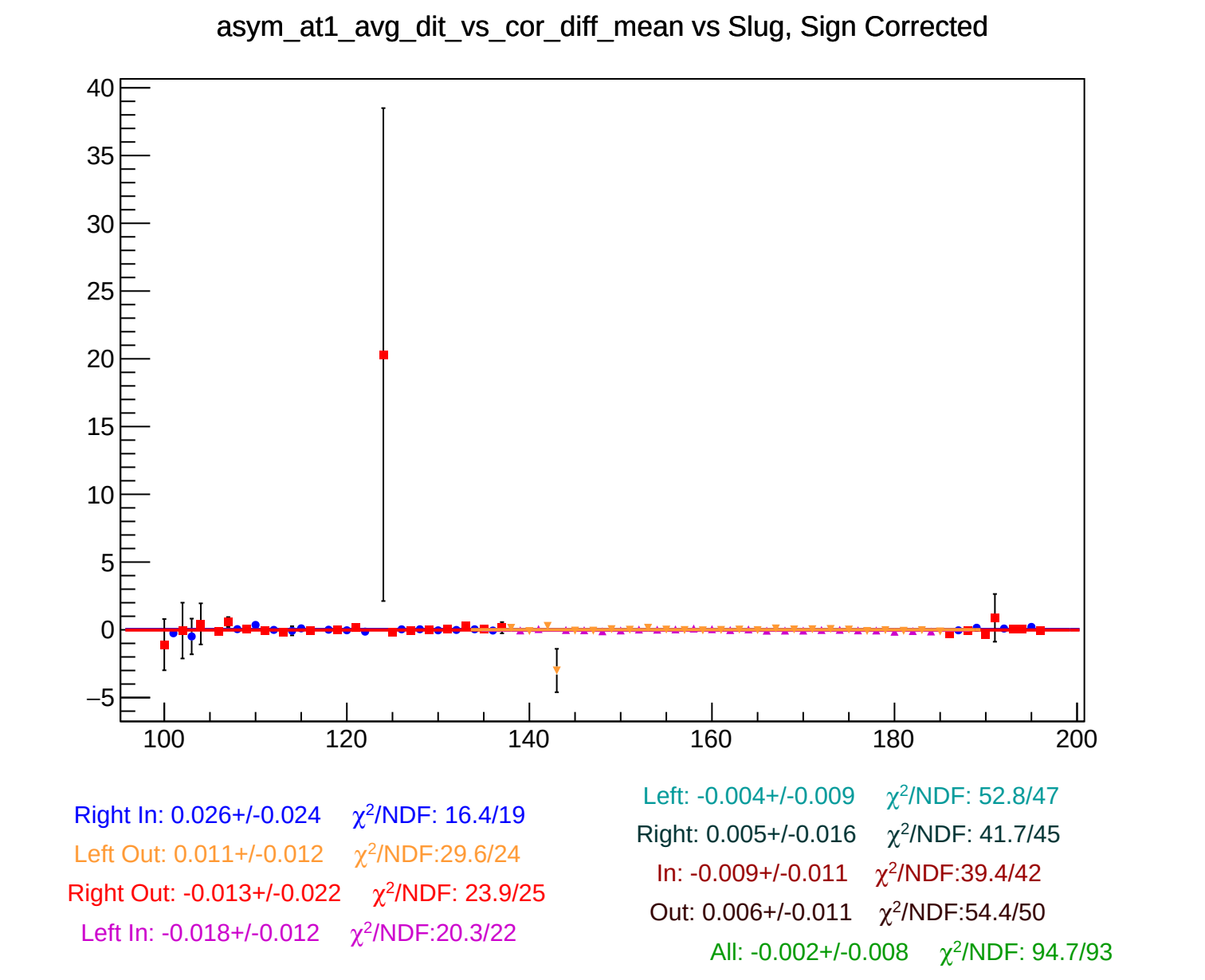
Right: 0.000+/-0.000 $\chi^2$/NDF: 48.0/45

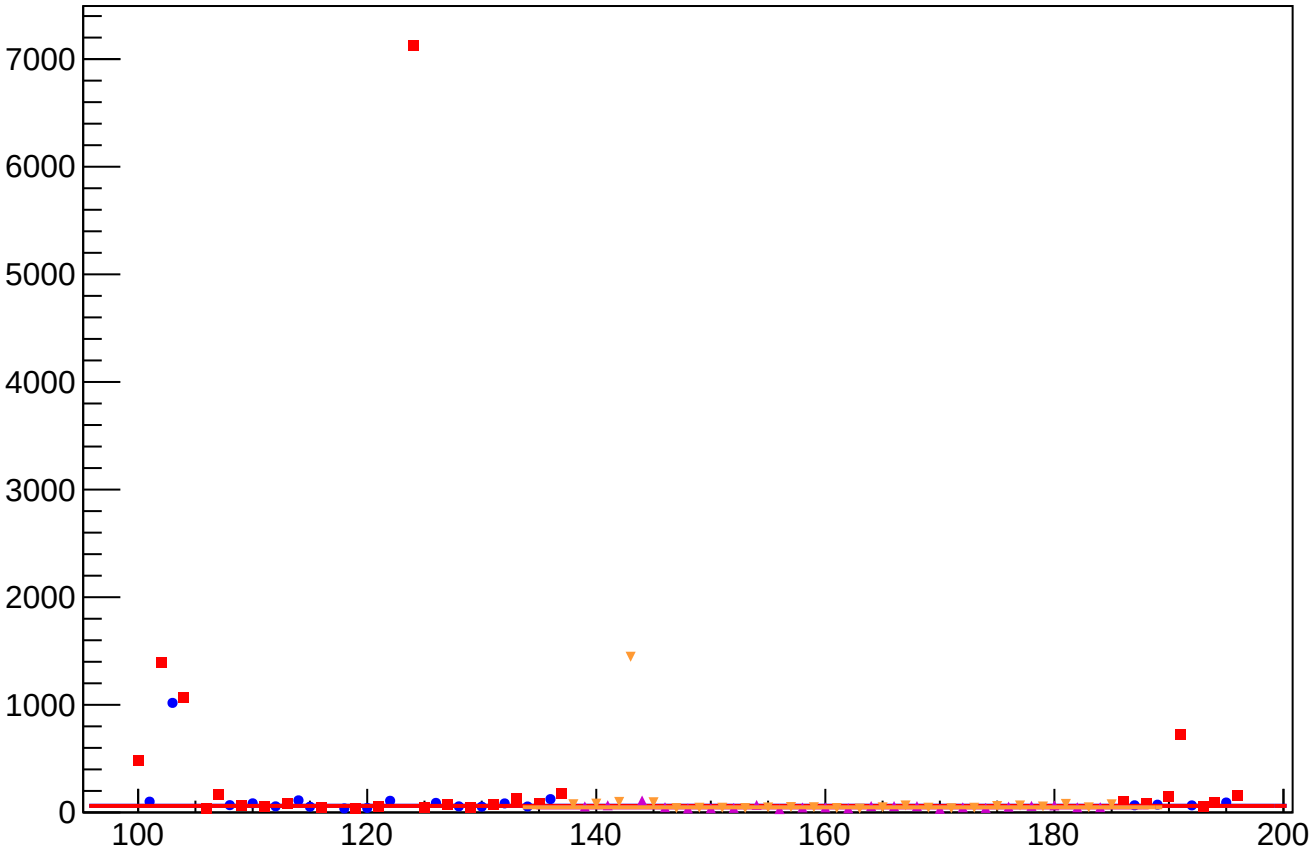
In: -0.000+/-0.000 $\chi^2$/NDF:54.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:54.9/50

All: -0.000+/-0.000 $\chi^2$/NDF: 110.0/93


asym_at1_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
7
6
5
4
3
2
1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2031211.8/19
Left Out: 0.000+/-0.000 χ²/NDF:2160933.2/24
Right Out: 0.000+/-0.000 χ²/NDF: 1942996.3/25
Left In: 0.000+/-0.000 χ²/NDF:2613869.2/22
Left: 0.000+/-0.000 χ²/NDF: 4774854.4/47
Right: 0.000+/-0.000 χ²/NDF: 4166078.5/45
In: 0.000+/-0.000 χ²/NDF:6931170.3/42
Out: 0.000+/-0.000 χ²/NDF:7491723.2/50
All: 0.000+/-0.000 χ²/NDF: 14424145.4/93


asym_at1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
40
35
30
25
20
15
10
5
0
−5
100
120
140
160
180
200
Right In: 0.026+/-0.024 χ²/NDF: 16.4/19
Left Out: 0.011+/-0.012 χ²/NDF:29.6/24
Right Out: -0.013+/-0.022 χ²/NDF: 23.9/25
Left In: -0.018+/-0.012 χ²/NDF:20.3/22
Left: -0.004+/-0.009 χ²/NDF: 52.8/47
Right: 0.005+/-0.016 χ²/NDF: 41.7/45
In: -0.009+/-0.011 χ²/NDF:39.4/42
Out: 0.006+/-0.011 χ²/NDF:54.4/50
All: -0.002+/-0.008 χ²/NDF: 94.7/93




Right In: 62.291+/-0.017 $\chi^2$/NDF: 2697115.9/19

Left Out: 47.901+/-0.009 $\chi^2$/NDF:3496596.6/24

Right Out: 60.746+/-0.016 $\chi^2$/NDF: 4938593.1/25

Left In: 46.786+/-0.009 $\chi^2$/NDF:1949486.1/22

Left: 47.335+/-0.006 $\chi^2$/NDF: 5454241.8/47

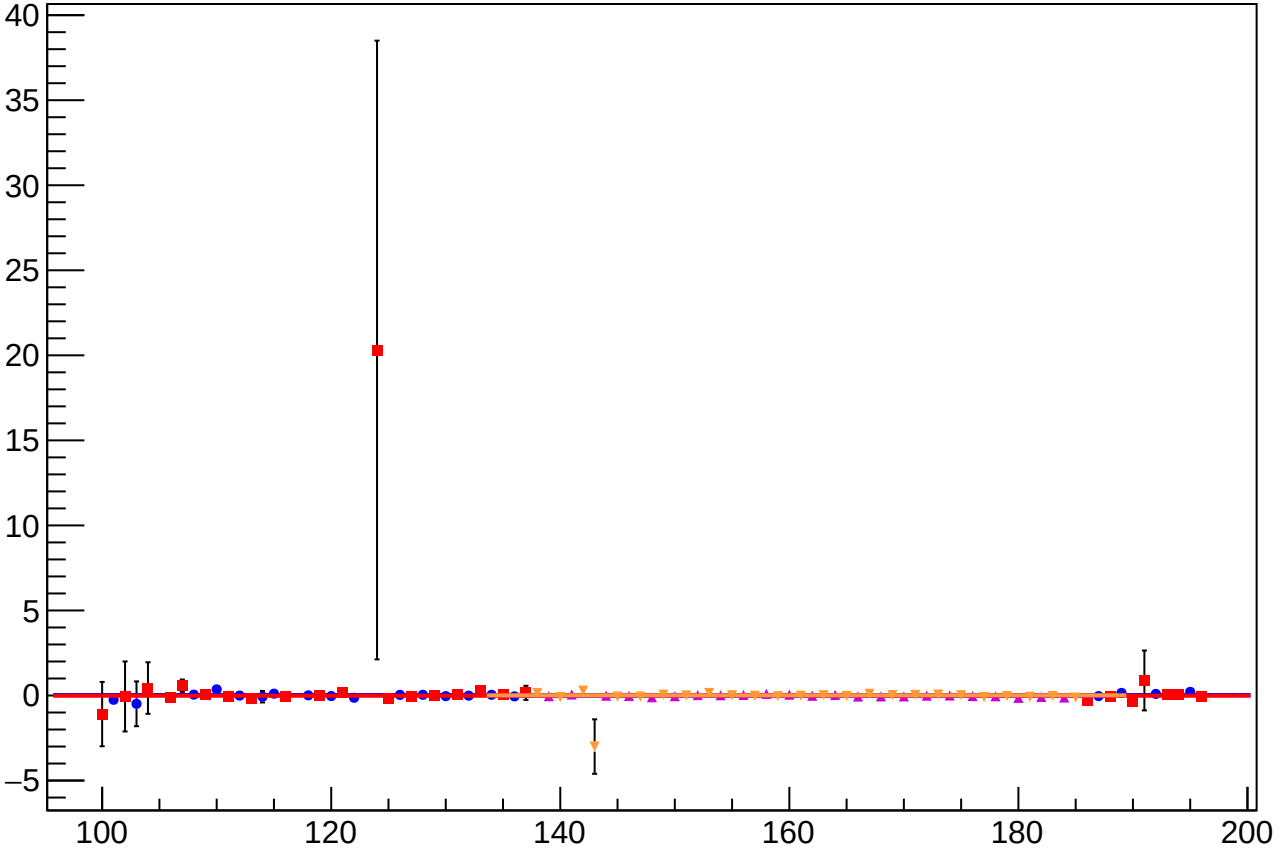
Right: 61.472+/-0.012 $\chi^2$/NDF: 7640150.2/45

In: 50.018+/-0.008 $\chi^2$/NDF:5314070.7/42

Out: 50.916+/-0.008 $\chi^2$/NDF:8935451.4/50

All: 50.468+/-0.005 $\chi^2$/NDF: 14256313.0/93

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.024 $\chi^2$/NDF: 16.4/19

Left Out: 0.011+/-0.012 $\chi^2$/NDF:29.6/24

Right Out: -0.013+/-0.022 $\chi^2$/NDF: 23.9/25

Left In: -0.018+/-0.012 $\chi^2$/NDF:20.3/22

Left: -0.004+/-0.009 $\chi^2$/NDF: 52.8/47

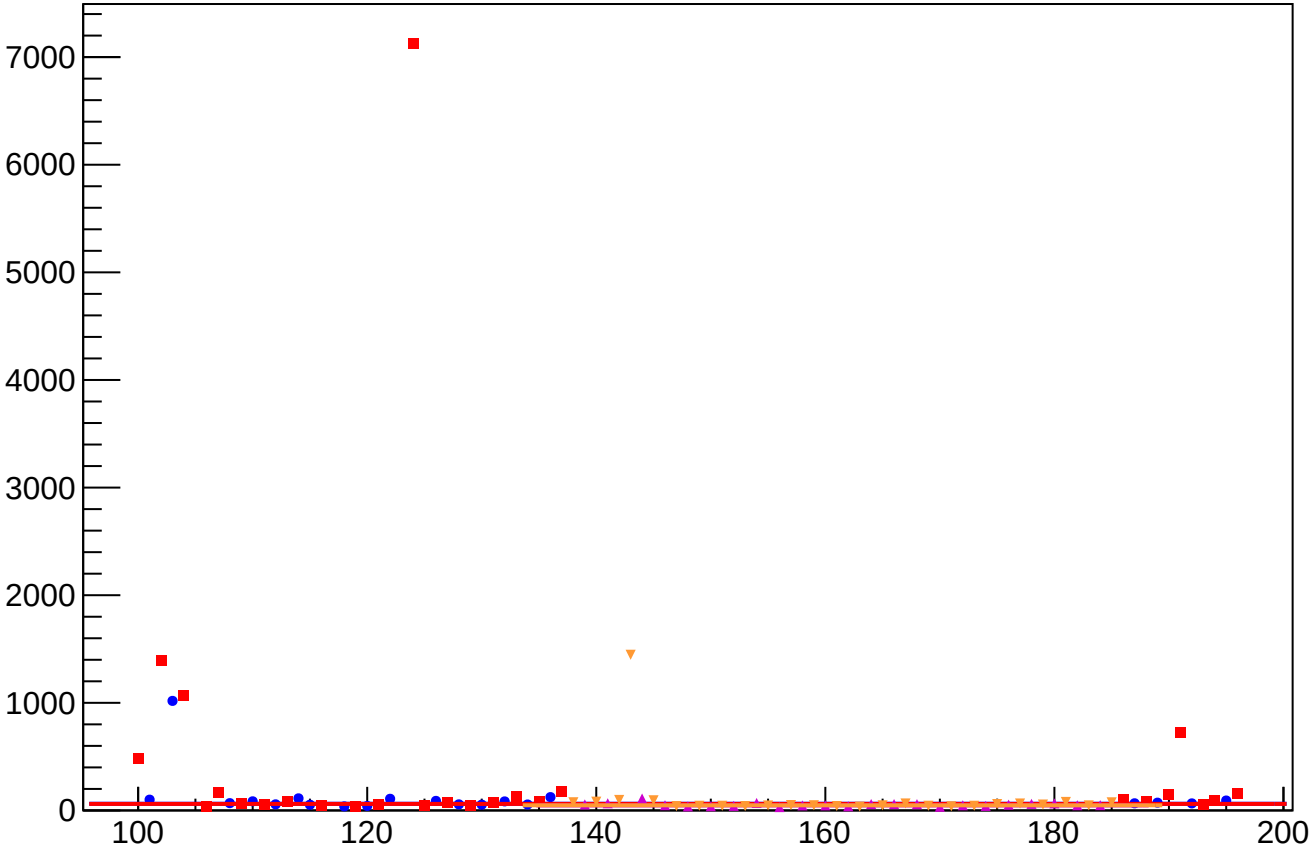
Right: 0.005+/-0.016 $\chi^2$/NDF: 41.7/45

In: -0.009+/-0.011 $\chi^2$/NDF:39.4/42

Out: 0.006+/-0.011 $\chi^2$/NDF:54.4/50

All: -0.002+/-0.008 $\chi^2$/NDF: 94.7/93

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 62.291+/-0.017 $\chi^2$/NDF: 2697115.9/19

Left Out: 47.901+/-0.009 $\chi^2$/NDF:3496596.6/24

Right Out: 60.746+/-0.016 $\chi^2$/NDF: 4938593.1/25

Left In: 46.786+/-0.009 $\chi^2$/NDF:1949486.1/22

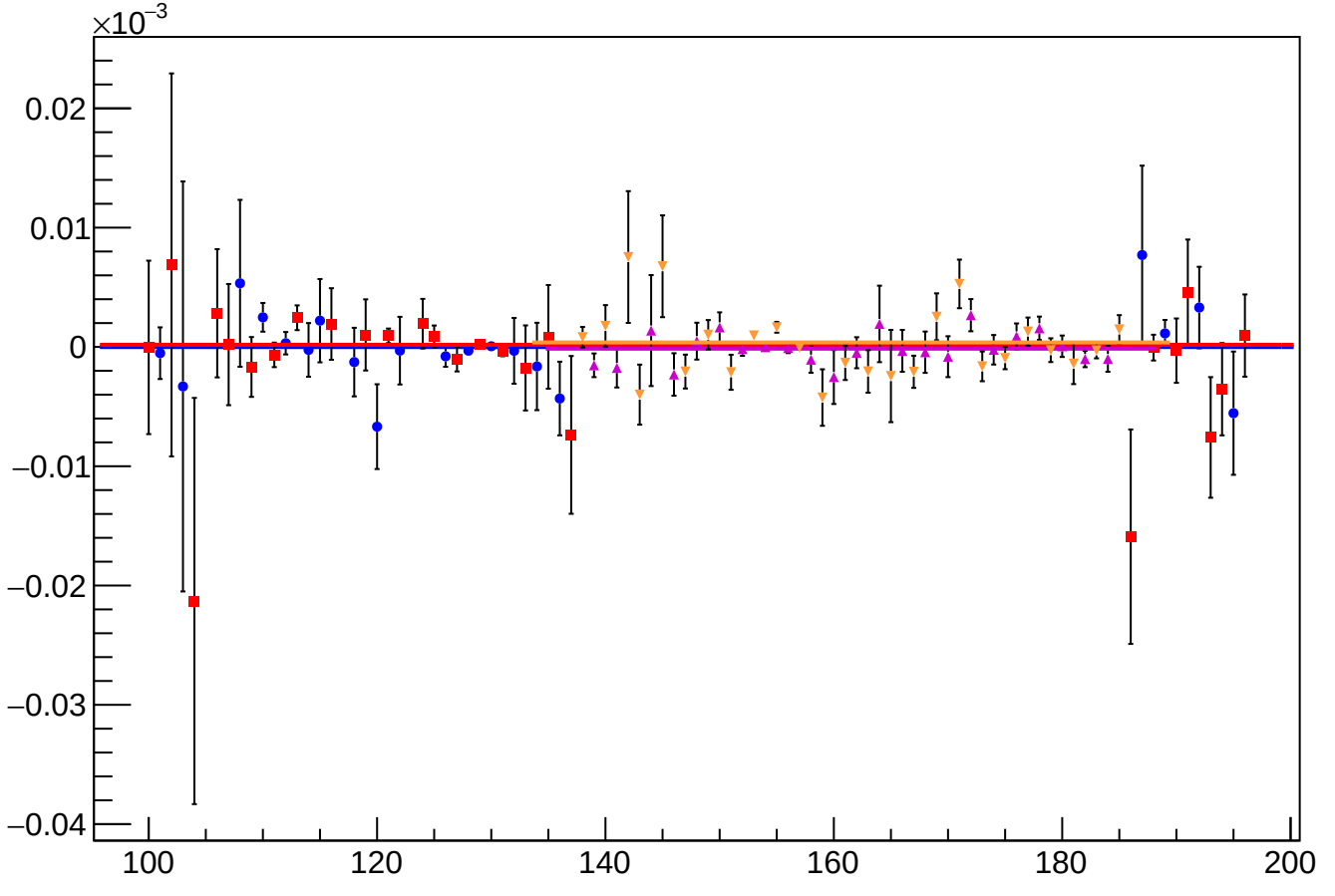
Left: 47.335+/-0.006 $\chi^2$/NDF: 5454241.8/47

Right: 61.472+/-0.012 $\chi^2$/NDF: 7640150.2/45

In: 50.018+/-0.008 $\chi^2$/NDF:5314070.7/42

Out: 50.916+/-0.008 $\chi^2$/NDF:8935451.4/50

All: 50.468+/-0.005 $\chi^2$/NDF: 14256313.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:51.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.9/22

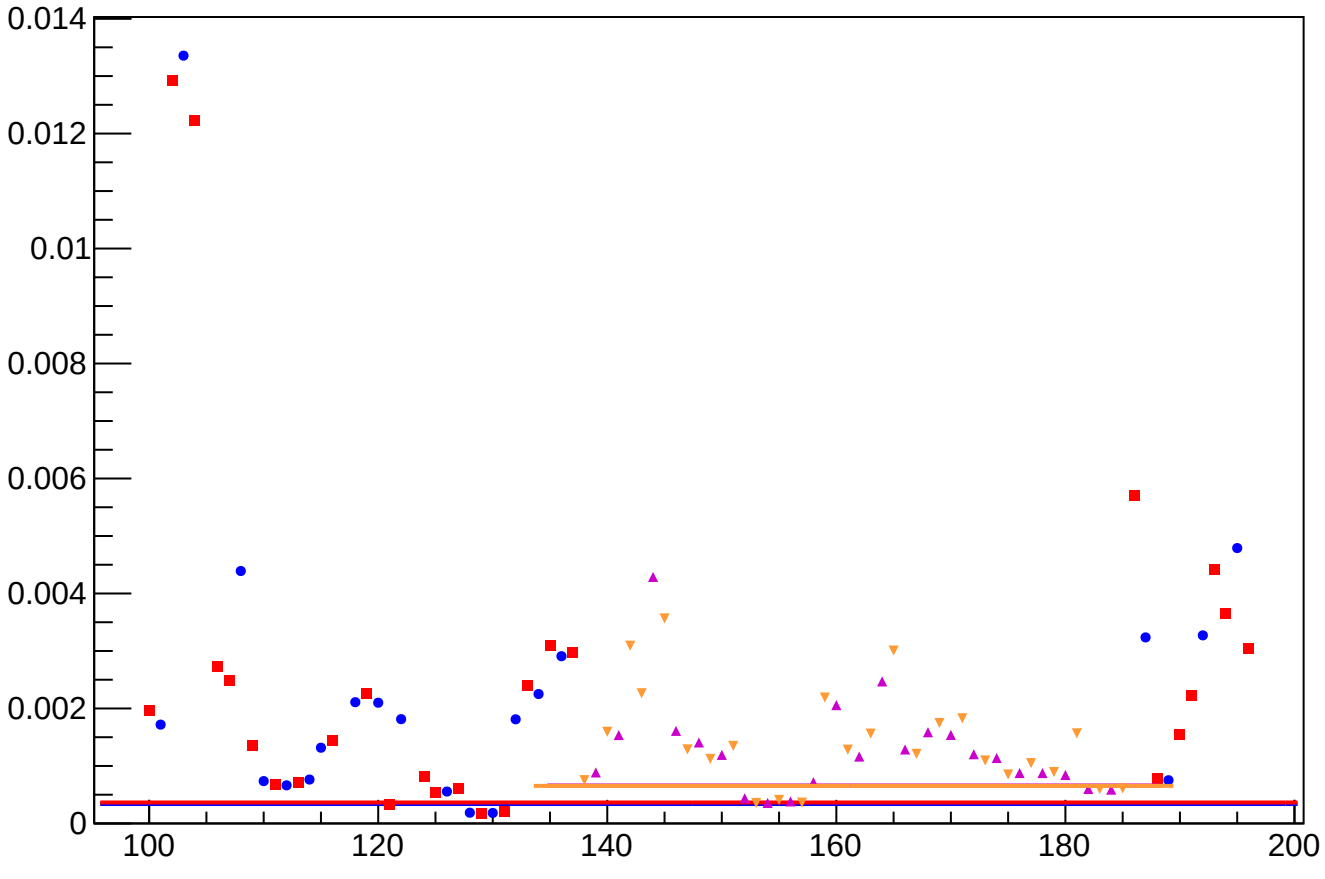
Left: 0.000+/-0.000 $\chi^2$/NDF: 75.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:37.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:75.5/50

All: 0.000+/-0.000 $\chi^2$/NDF: 116.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12330560.1/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:12083891.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13817581.0/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:9695095.3/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 21780521.8/47

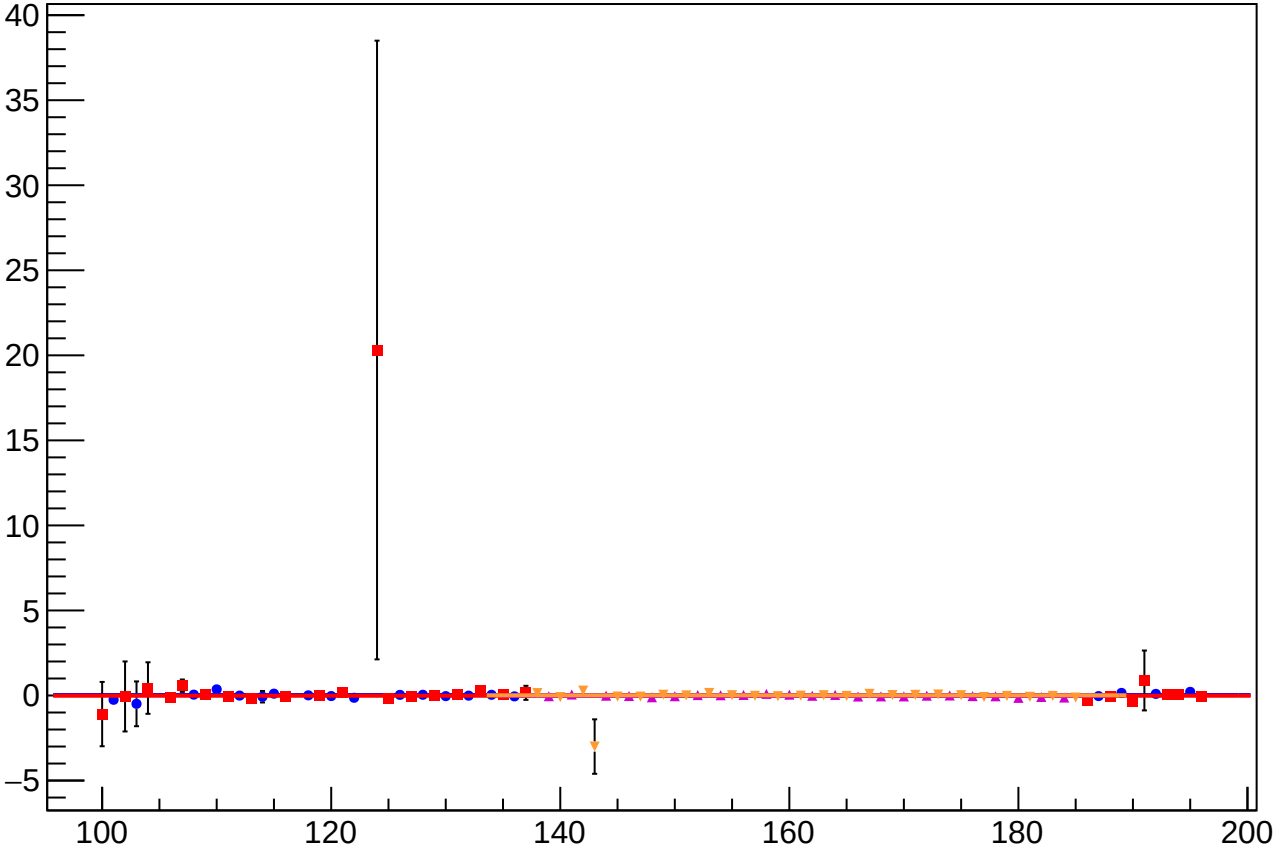
Right: 0.000+/-0.000 $\chi^2$/NDF: 26168560.4/45

In: 0.001+/-0.000 $\chi^2$/NDF:24940670.0/42

Out: 0.001+/-0.000 $\chi^2$/NDF:28323273.1/50

All: 0.001+/-0.000 $\chi^2$/NDF: 53273034.0/93

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.024 $\chi^2$/NDF: 16.4/19

Left Out: 0.011+/-0.012 $\chi^2$/NDF:29.6/24

Right Out: -0.013+/-0.022 $\chi^2$/NDF: 23.9/25

Left In: -0.018+/-0.012 $\chi^2$/NDF:20.3/22

Left: -0.004+/-0.009 $\chi^2$/NDF: 52.8/47

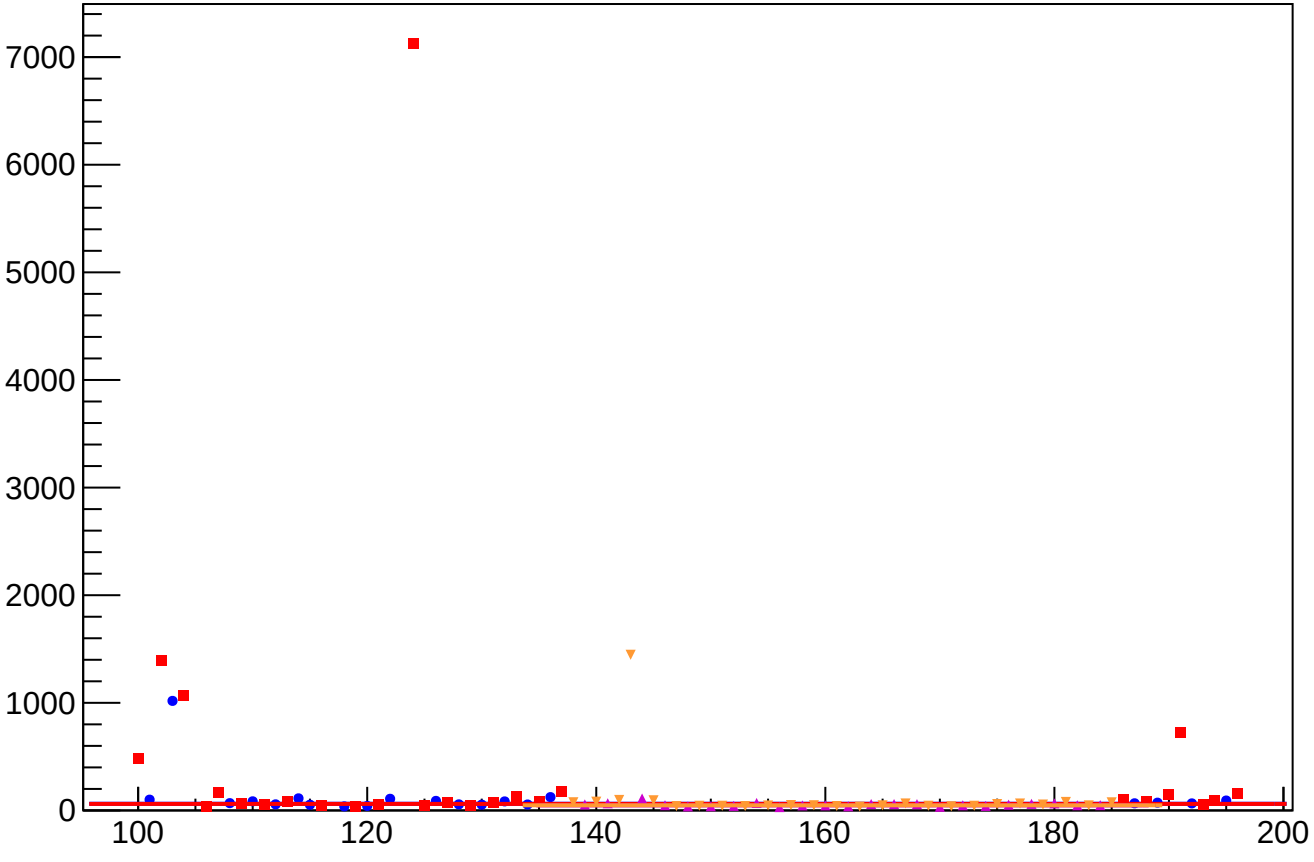
Right: 0.005+/-0.016 $\chi^2$/NDF: 41.7/45

In: -0.009+/-0.011 $\chi^2$/NDF:39.4/42

Out: 0.006+/-0.011 $\chi^2$/NDF:54.4/50

All: -0.002+/-0.008 $\chi^2$/NDF: 94.7/93

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 62.291+/-0.017 $\chi^2$/NDF: 2697153.2/19

Left Out: 47.902+/-0.009 $\chi^2$/NDF:3496571.8/24

Right Out: 60.745+/-0.016 $\chi^2$/NDF: 4938719.1/25

Left In: 46.786+/-0.009 $\chi^2$/NDF:1949480.3/22

Left: 47.335+/-0.006 $\chi^2$/NDF: 5454214.5/47

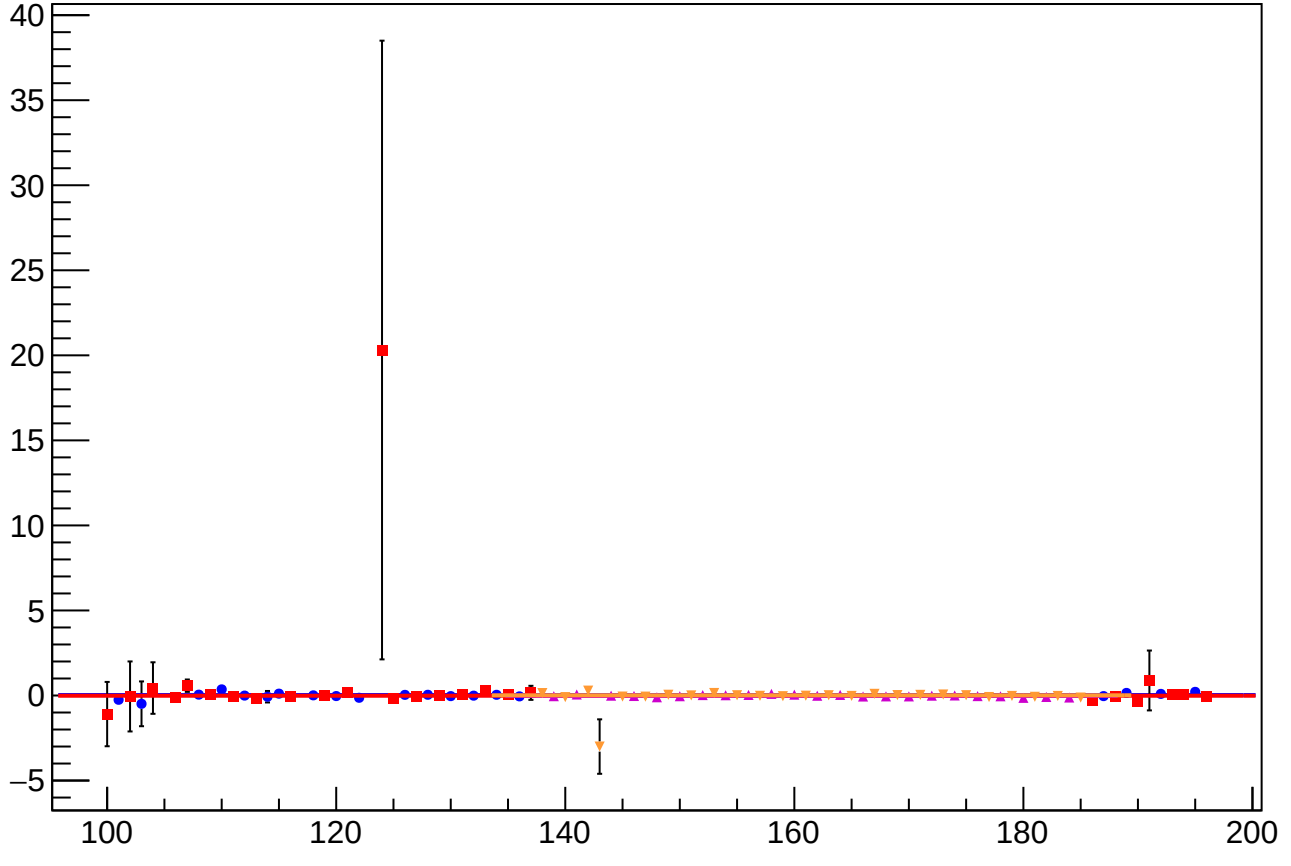
Right: 61.471+/-0.012 $\chi^2$/NDF: 7640319.3/45

In: 50.018+/-0.008 $\chi^2$/NDF:5314100.1/42

Out: 50.916+/-0.008 $\chi^2$/NDF:8935460.5/50

All: 50.468+/-0.005 $\chi^2$/NDF: 14256351.5/93

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.026+/-0.024 $\chi^2$/NDF: 16.4/19

Left Out: 0.011+/-0.012 $\chi^2$/NDF:29.6/24

Right Out: -0.013+/-0.022 $\chi^2$/NDF: 23.9/25

Left In: -0.018+/-0.012 $\chi^2$/NDF:20.3/22

Left: -0.004+/-0.009 $\chi^2$/NDF: 52.8/47

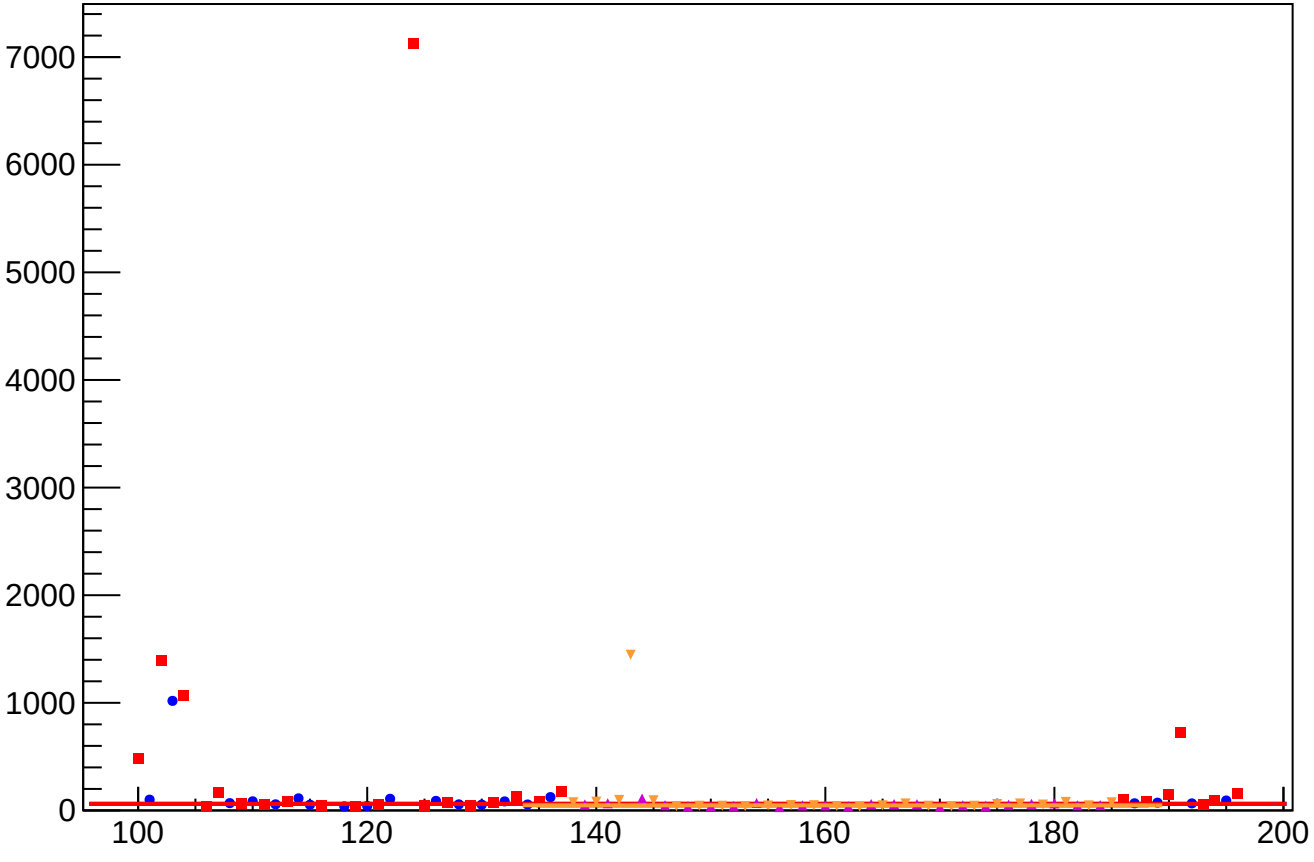
Right: 0.005+/-0.016 $\chi^2$/NDF: 41.7/45

In: -0.009+/-0.011 $\chi^2$/NDF:39.4/42

Out: 0.006+/-0.011 $\chi^2$/NDF:54.4/50

All: -0.002+/-0.008 $\chi^2$/NDF: 94.7/93

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 62.291+/-0.017 $\chi^2$/NDF: 2697153.2/19

Left Out: 47.902+/-0.009 $\chi^2$/NDF:3496571.8/24

Right Out: 60.745+/-0.016 $\chi^2$/NDF: 4938719.1/25

Left In: 46.786+/-0.009 $\chi^2$/NDF:1949480.3/22

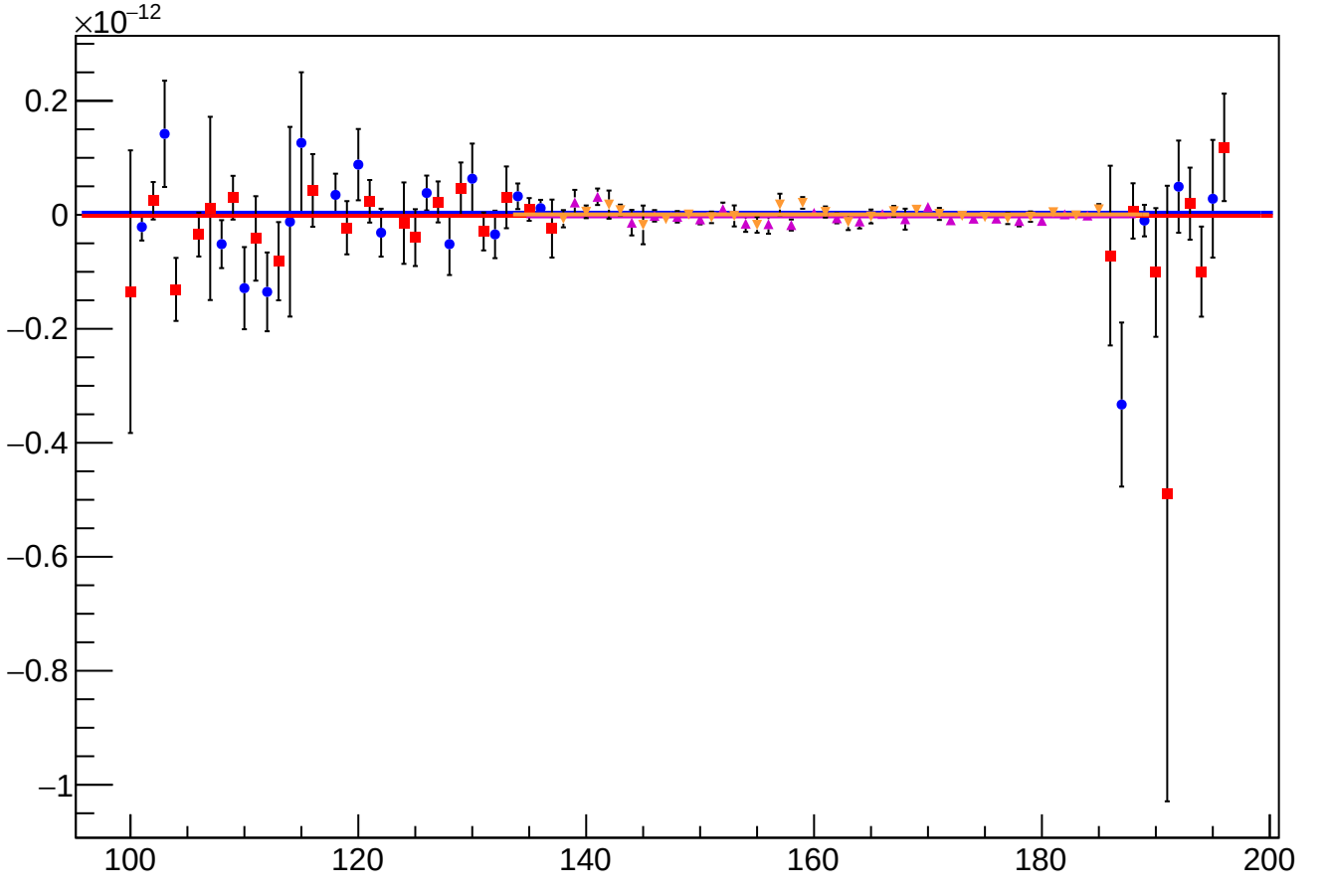
Left: 47.335+/-0.006 $\chi^2$/NDF: 5454214.5/47

Right: 61.471+/-0.012 $\chi^2$/NDF: 7640319.3/45

In: 50.018+/-0.008 $\chi^2$/NDF:5314100.1/42

Out: 50.916+/-0.008 $\chi^2$/NDF:8935460.5/50

All: 50.468+/-0.005 $\chi^2$/NDF: 14256351.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 28.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.8/22

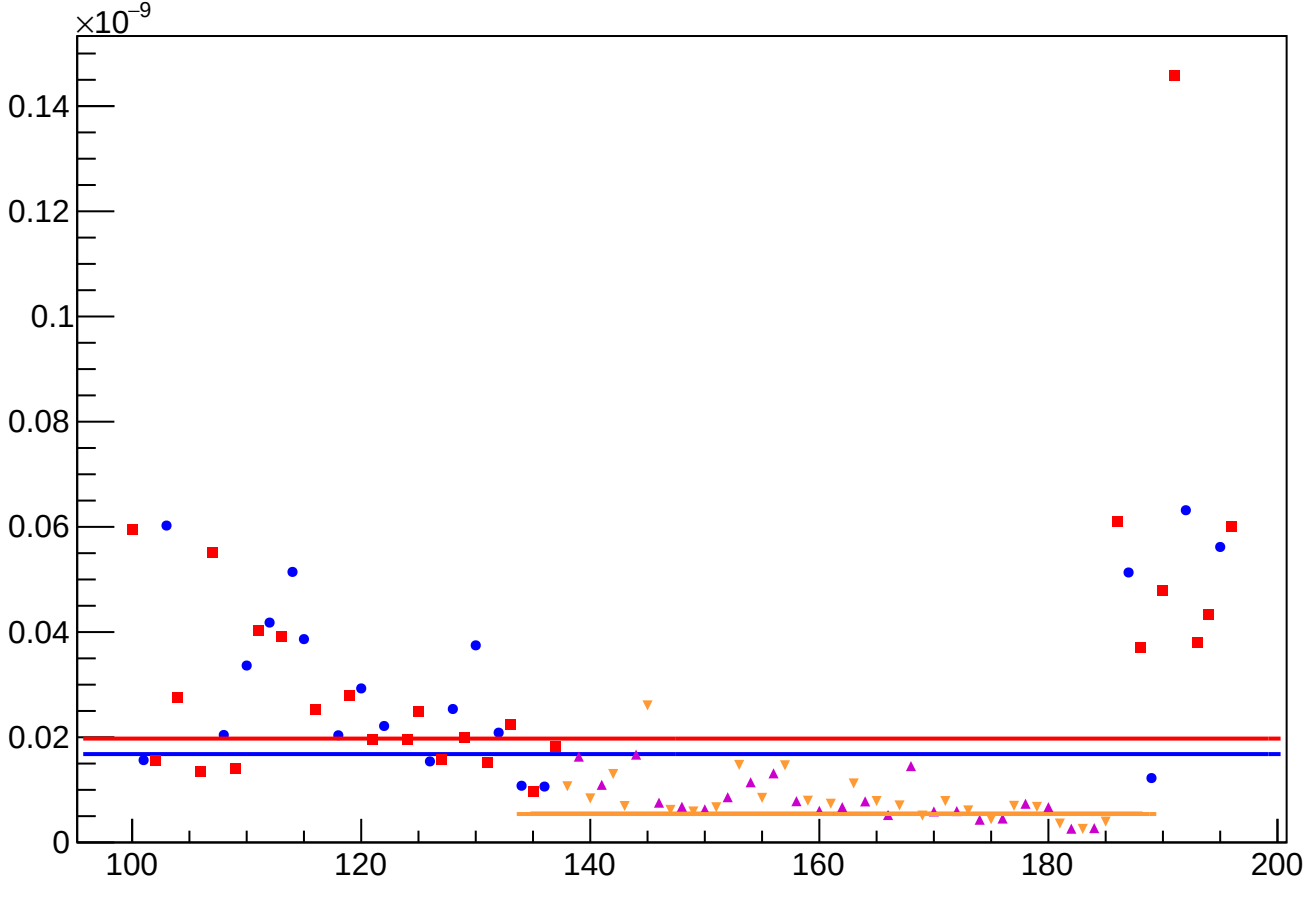
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 48.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:51.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:34.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 87.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3018496.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5134602.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2646196.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:4905821.2/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 10041467.9/47

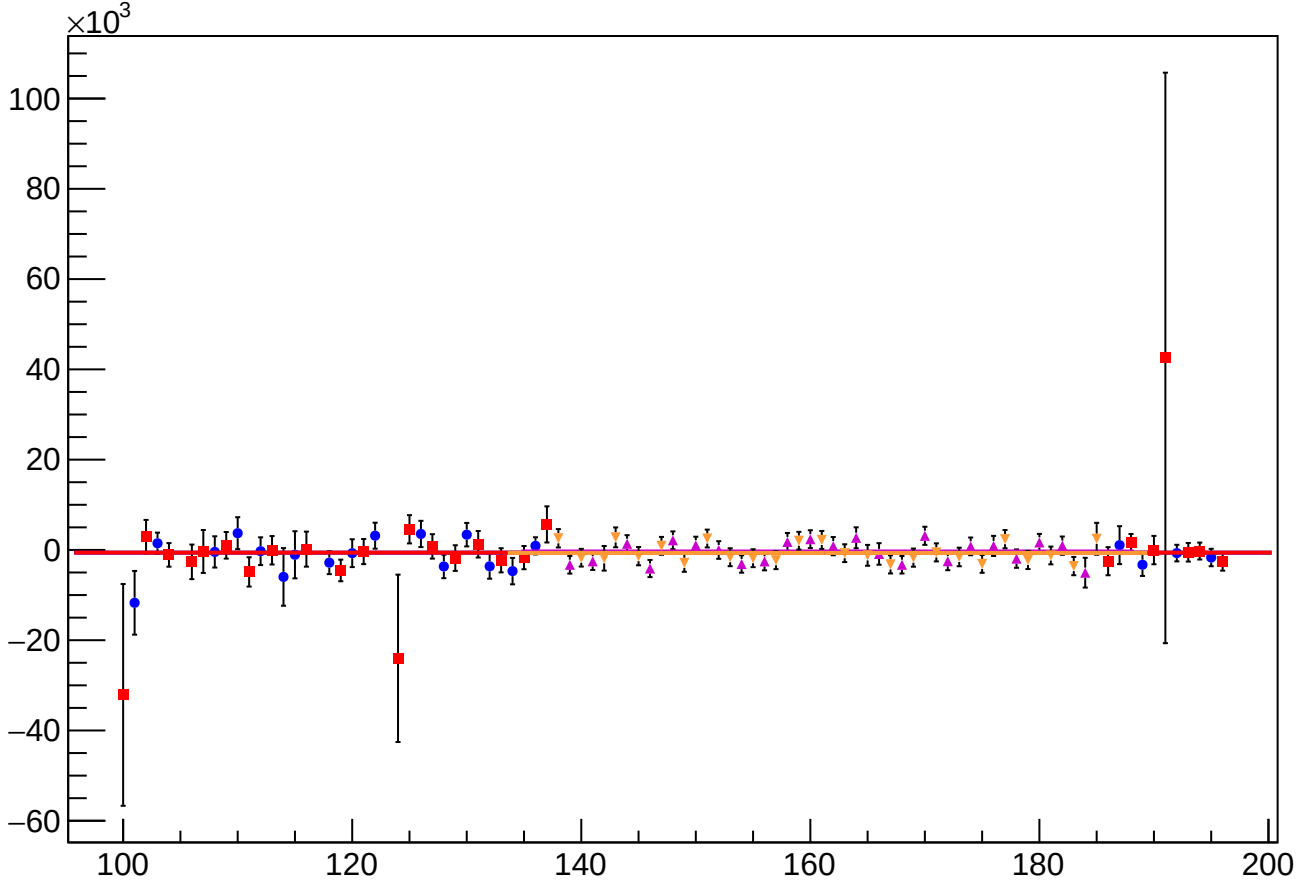
Right: 0.000+/-0.000 $\chi^2$/NDF: 5777870.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:11602863.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12371409.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 23977644.2/93

# reg_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -607.441+/-616.011 $\chi^2$/NDF: 19.1/19

Left Out: -670.041+/-412.206 $\chi^2$/NDF:24.7/24

Right Out: -599.303+/-568.878 $\chi^2$/NDF: 19.1/25

Left In: -342.945+/-422.712 $\chi^2$/NDF:30.1/22

Left: -510.608+/-295.118 $\chi^2$/NDF: 55.1/47

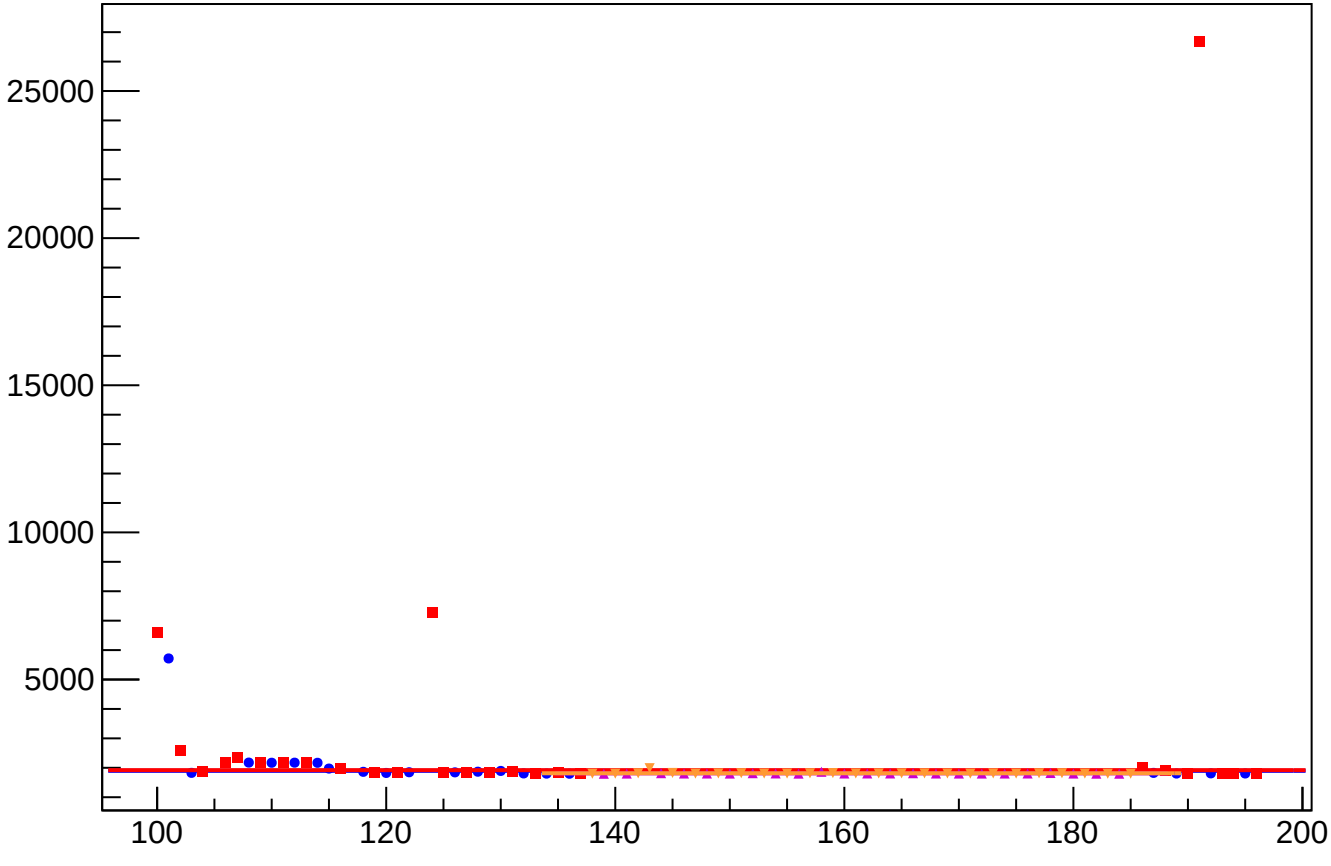
Right: -603.049+/-417.928 $\chi^2$/NDF: 38.2/45

In: -427.620+/-348.542 $\chi^2$/NDF:49.3/42

Out: -645.687+/-333.790 $\chi^2$/NDF:43.8/50

All: -541.366+/-241.072 $\chi^2$/NDF: 93.4/93

# reg_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1896.975+/-0.436 $\chi^2$/NDF: 657206.2/19

Left Out: 1814.435+/-0.291 $\chi^2$/NDF:13102.1/24

Right Out: 1919.899+/-0.402 $\chi^2$/NDF: 722405.2/25

Left In: 1810.457+/-0.299 $\chi^2$/NDF:1967.2/22

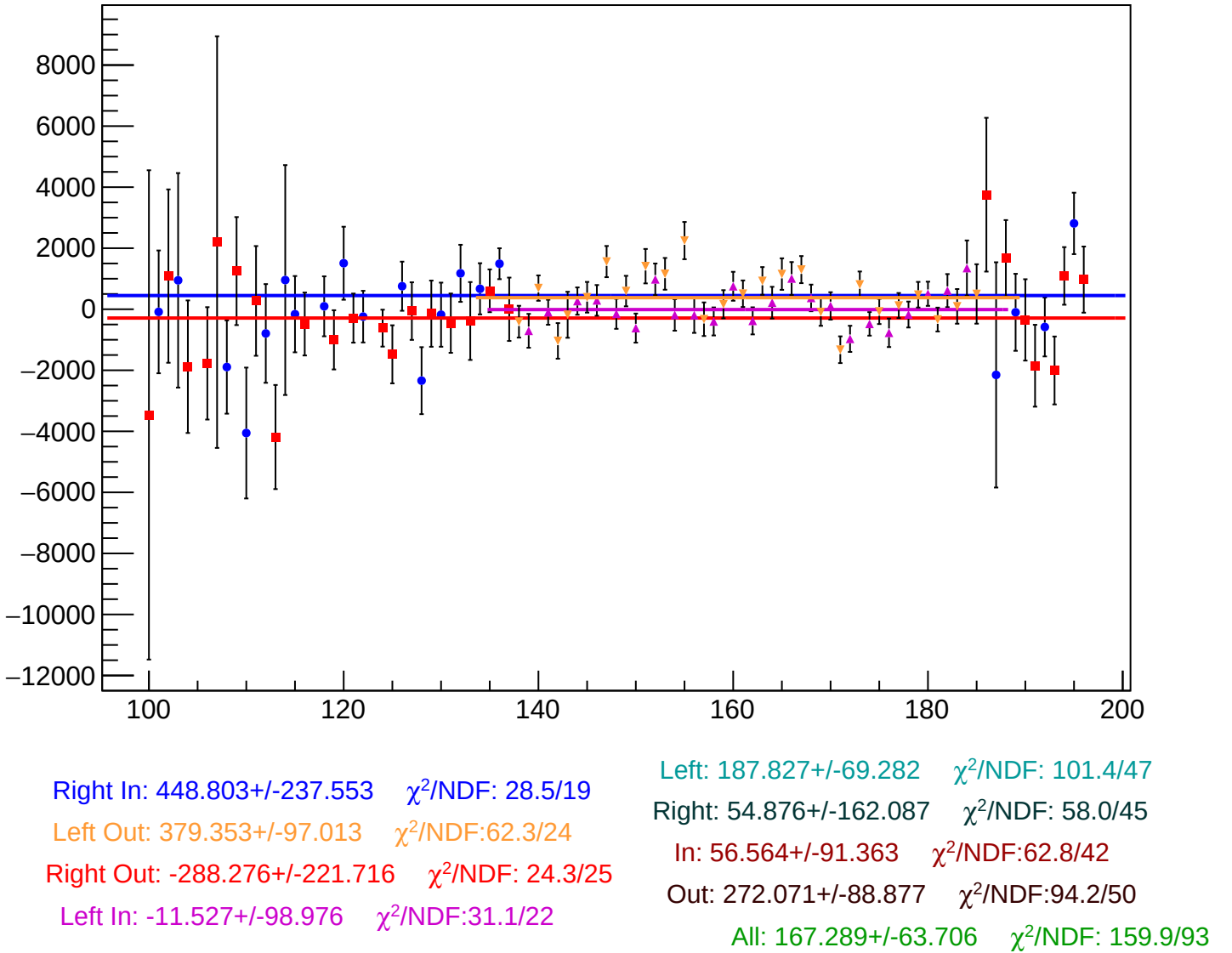
Left: 1812.496+/-0.209 $\chi^2$/NDF: 15160.0/47

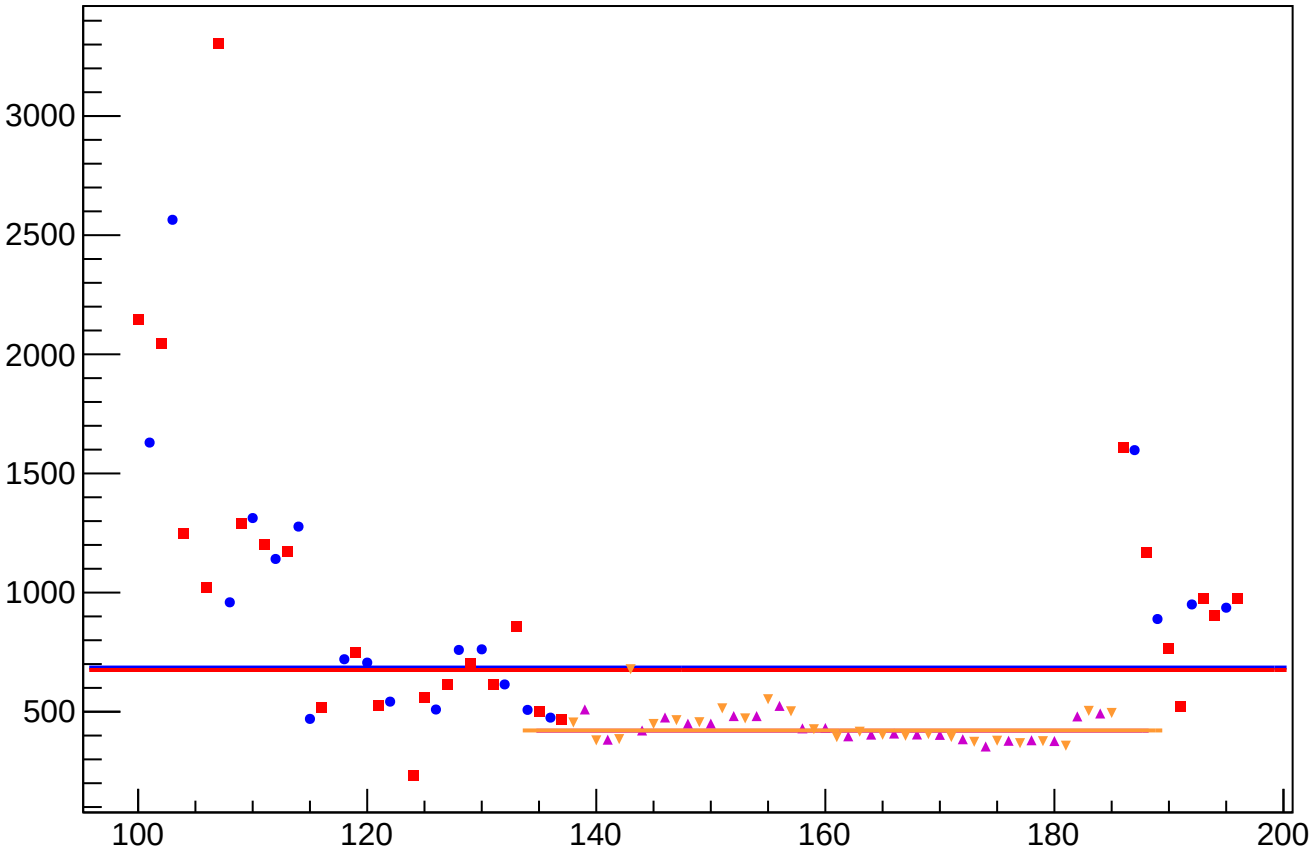
Right: 1909.348+/-0.296 $\chi^2$/NDF: 1381106.3/45

In: 1838.155+/-0.246 $\chi^2$/NDF:685995.0/42

Out: 1850.744+/-0.236 $\chi^2$/NDF:780581.5/50

All: 1844.721+/-0.170 $\chi^2$/NDF: 1467937.5/93


asym_at1_dd_reg_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: 448.803+/-237.553 χ²/NDF: 28.5/19
Left Out: 379.353+/-97.013 χ²/NDF:62.3/24
Right Out: -288.276+/-221.716 χ²/NDF: 24.3/25
Left In: -11.527+/-98.976 χ²/NDF:31.1/22
Left: 187.827+/-69.282 χ²/NDF: 101.4/47
Right: 54.876+/-162.087 χ²/NDF: 58.0/45
In: 56.564+/-91.363 χ²/NDF:62.8/42
Out: 272.071+/-88.877 χ²/NDF:94.2/50
All: 167.289+/-63.706 χ²/NDF: 159.9/93




Right In: 685.357+/-0.168 $\chi^2$/NDF: 2587582.4/19

Left Out: 421.417+/-0.069 $\chi^2$/NDF:743048.1/24

Right Out: 675.134+/-0.157 $\chi^2$/NDF: 4157555.3/25

Left In: 420.222+/-0.070 $\chi^2$/NDF:413129.7/22

Left: 420.831+/-0.049 $\chi^2$/NDF: 1156326.3/47

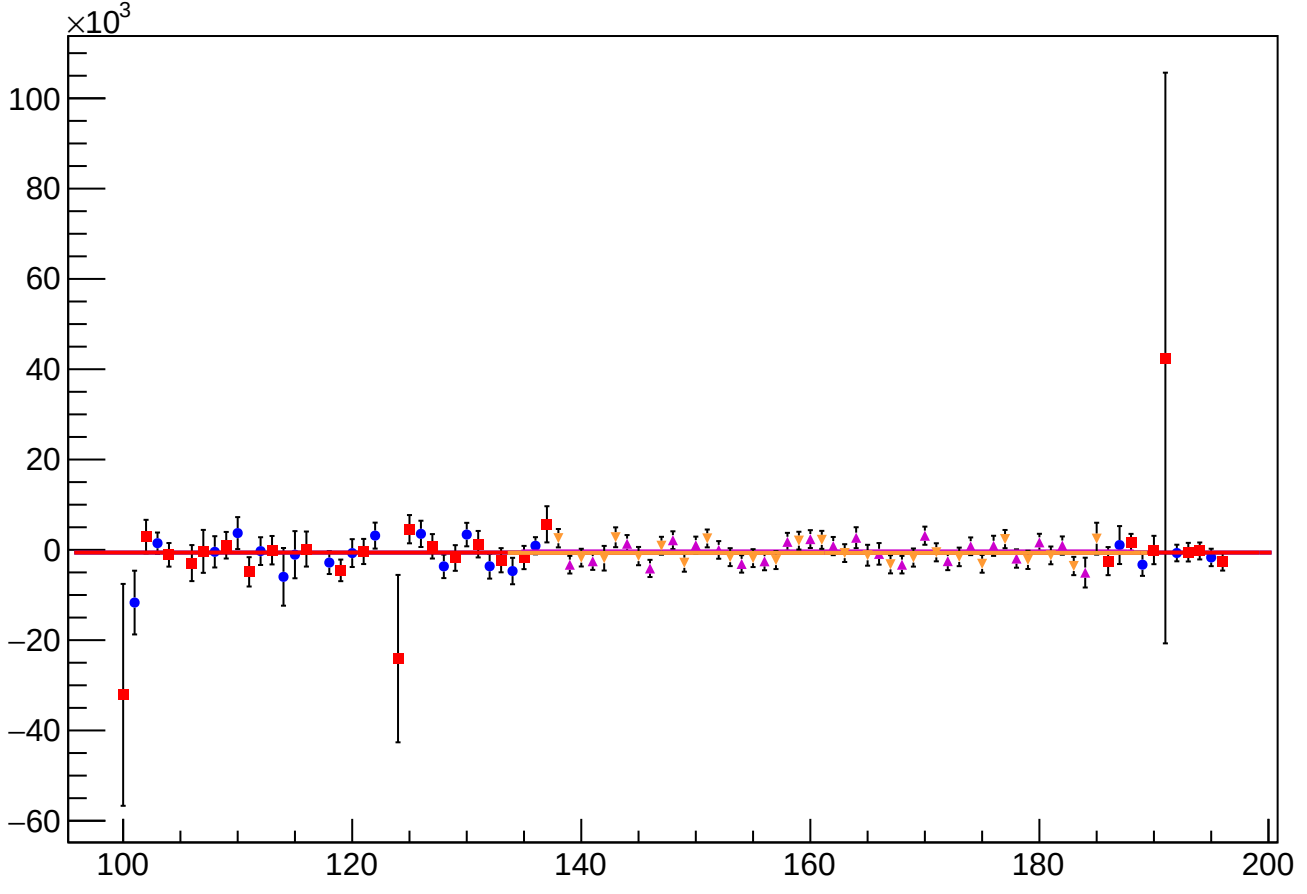
Right: 679.893+/-0.115 $\chi^2$/NDF: 6747117.3/45

In: 459.441+/-0.065 $\chi^2$/NDF:5123583.1/42

Out: 462.187+/-0.063 $\chi^2$/NDF:7098761.1/50

All: 460.851+/-0.045 $\chi^2$/NDF: 12223272.5/93

# cor_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -606.921+/-616.011 $\chi^2$/NDF: 19.1/19

Left Out: -670.031+/-412.206 $\chi^2$/NDF:24.7/24

Right Out: -602.042+/-569.374 $\chi^2$/NDF: 19.2/25

Left In: -342.989+/-422.712 $\chi^2$/NDF:30.1/22

Left: -510.625+/-295.118 $\chi^2$/NDF: 55.1/47

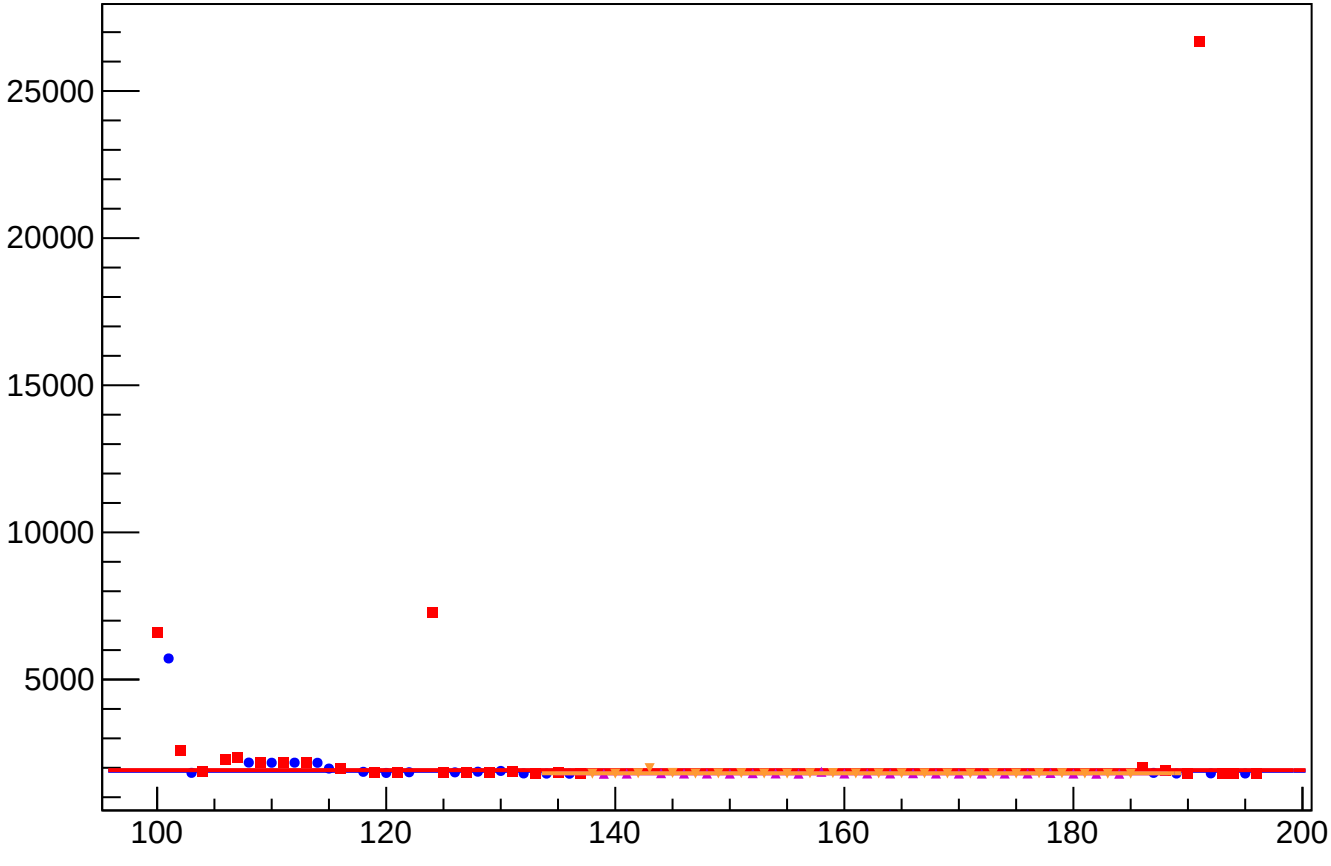
Right: -604.289+/-418.124 $\chi^2$/NDF: 38.3/45

In: -427.483+/-348.542 $\chi^2$/NDF:49.3/42

Out: -646.651+/-333.890 $\chi^2$/NDF:43.9/50

All: -541.770+/-241.110 $\chi^2$/NDF: 93.4/93

# cor_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1896.975+/-0.436 $\chi^2$/NDF: 657206.1/19

Left Out: 1814.435+/-0.291 $\chi^2$/NDF:13102.1/24

Right Out: 1921.100+/-0.403 $\chi^2$/NDF: 727967.7/25

Left In: 1810.457+/-0.299 $\chi^2$/NDF:1967.2/22

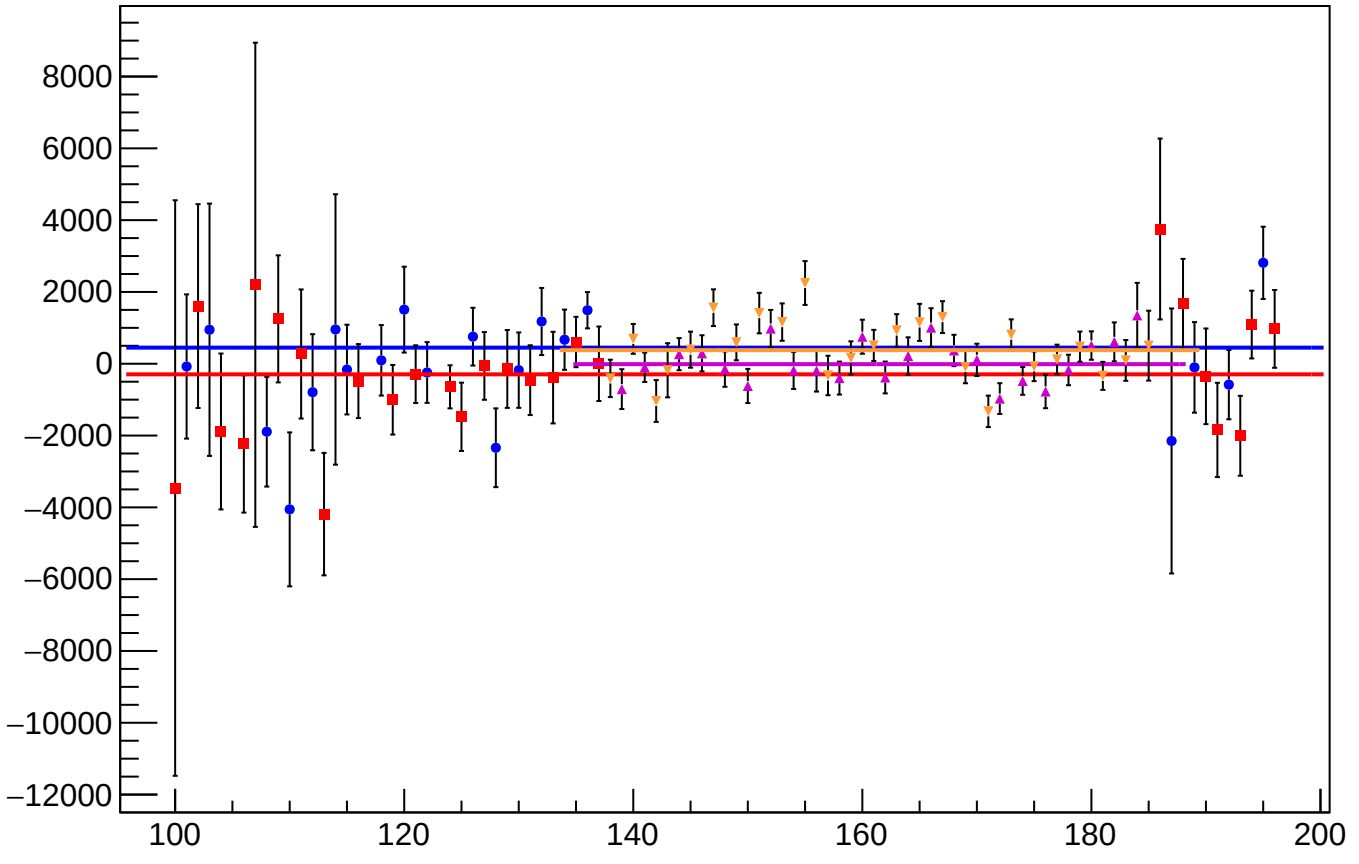
Left: 1812.496+/-0.209 $\chi^2$/NDF: 15160.0/47

Right: 1909.985+/-0.296 $\chi^2$/NDF: 1386828.0/45

In: 1838.155+/-0.246 $\chi^2$/NDF:685994.9/42

Out: 1851.115+/-0.236 $\chi^2$/NDF:787123.3/50

All: 1844.913+/-0.170 $\chi^2$/NDF: 1474560.2/93




Right In: 448.834+/-237.545 $\chi^2$/NDF: 28.5/19

Left Out: 379.343+/-97.014 $\chi^2$/NDF:62.3/24

Right Out: -295.095+/-221.486 $\chi^2$/NDF: 25.0/25

Left In: -11.539+/-98.975 $\chi^2$/NDF:31.1/22

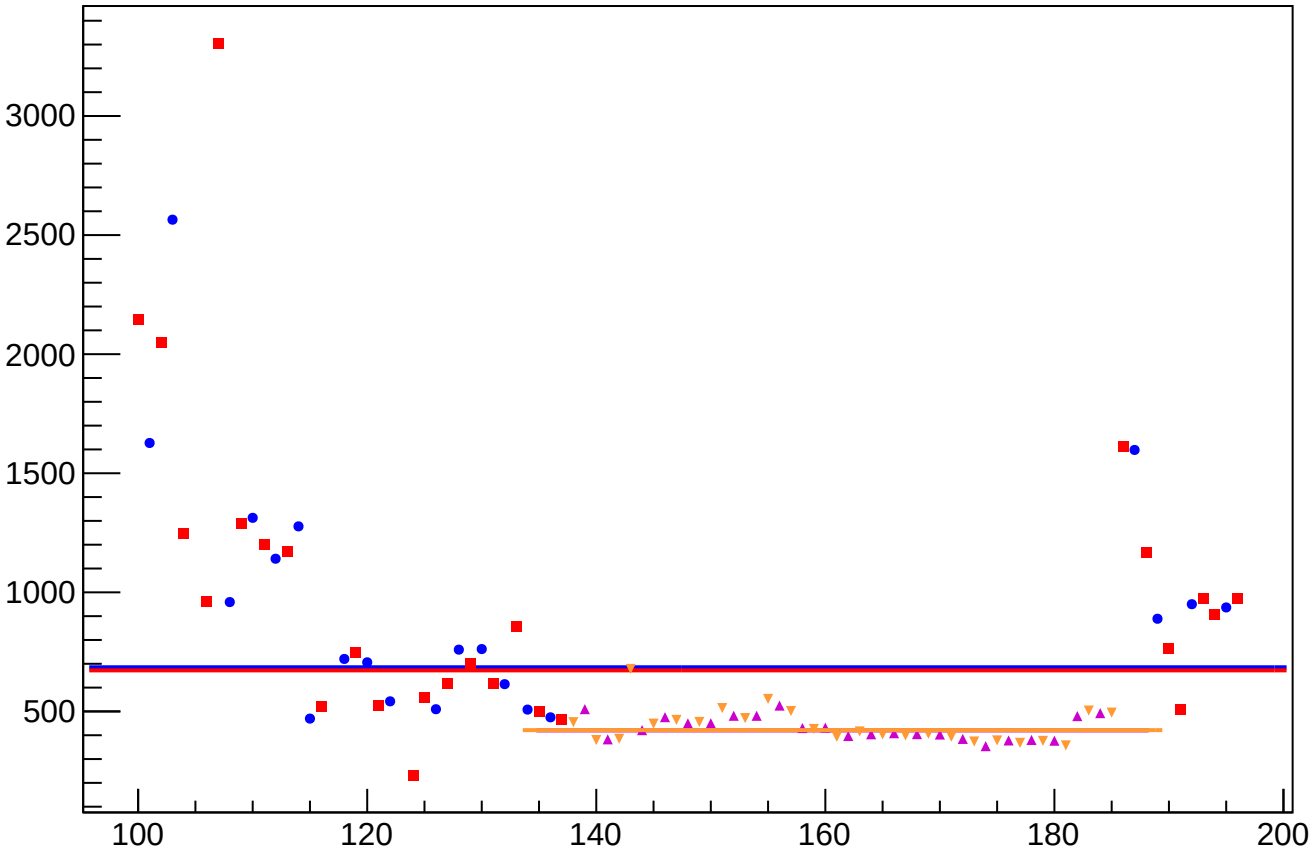
Left: 187.813+/-69.282 $\chi^2$/NDF: 101.4/47

Right: 50.876+/-161.994 $\chi^2$/NDF: 58.8/45

In: 56.561+/-91.362 $\chi^2$/NDF:62.8/42

Out: 270.778+/-88.863 $\chi^2$/NDF:95.1/50

All: 166.639+/-63.701 $\chi^2$/NDF: 160.8/93




Right In: 685.353+/-0.168 $\chi^2$/NDF: 2586743.2/19

Left Out: 421.420+/-0.069 $\chi^2$/NDF:742987.6/24

Right Out: 672.341+/-0.157 $\chi^2$/NDF: 4163765.2/25

Left In: 420.218+/-0.070 $\chi^2$/NDF:413172.4/22

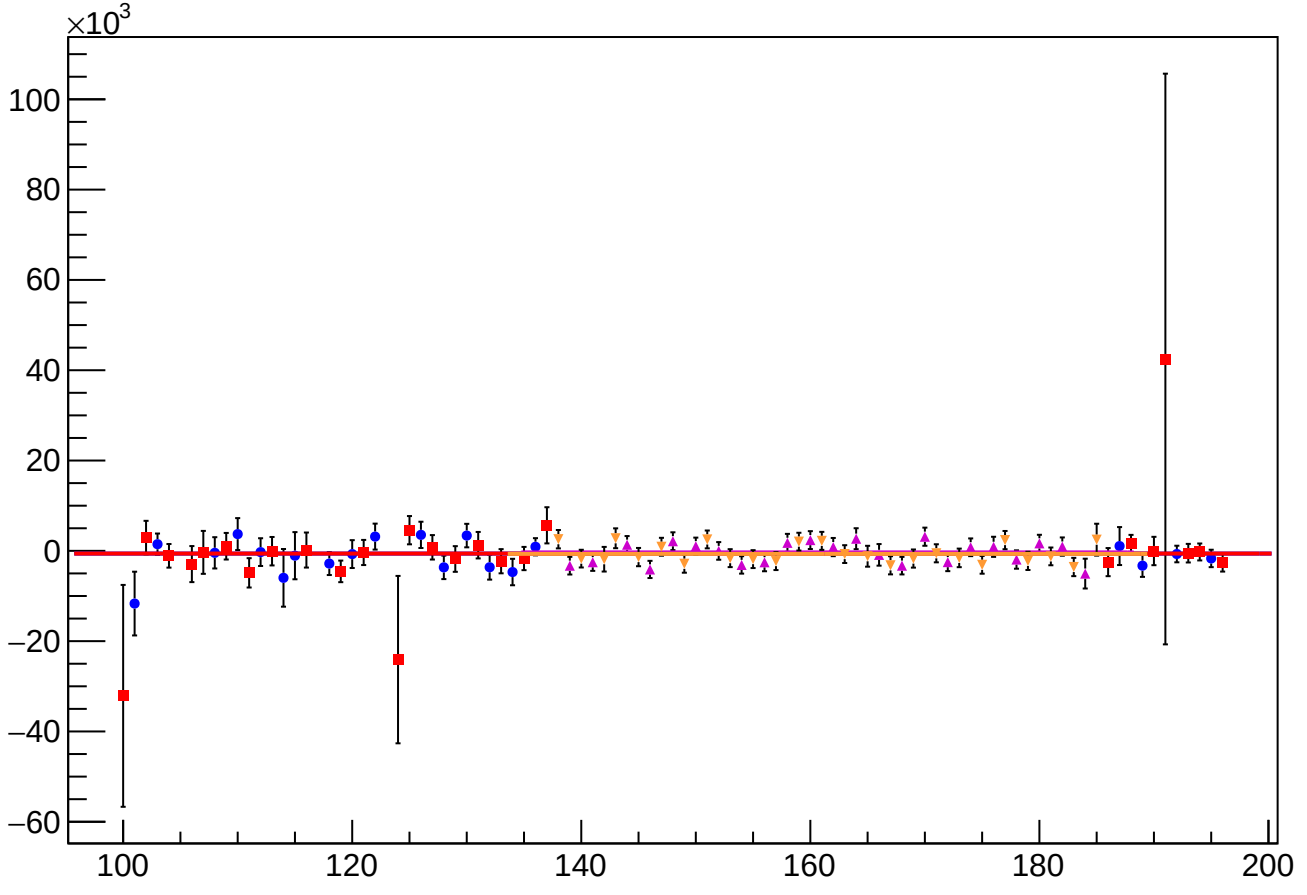
Left: 420.831+/-0.049 $\chi^2$/NDF: 1156310.3/47

Right: 678.392+/-0.115 $\chi^2$/NDF: 6753718.4/45

In: 459.438+/-0.065 $\chi^2$/NDF:5122909.6/42

Out: 461.811+/-0.063 $\chi^2$/NDF:7060468.5/50

All: 460.657+/-0.045 $\chi^2$/NDF: 12184071.4/93




Right In: -606.921+/-616.011 $\chi^2$/NDF: 19.1/19

Left Out: -670.031+/-412.206 $\chi^2$/NDF:24.7/24

Right Out: -602.042+/-569.374 $\chi^2$/NDF: 19.2/25

Left In: -342.989+/-422.712 $\chi^2$/NDF:30.1/22

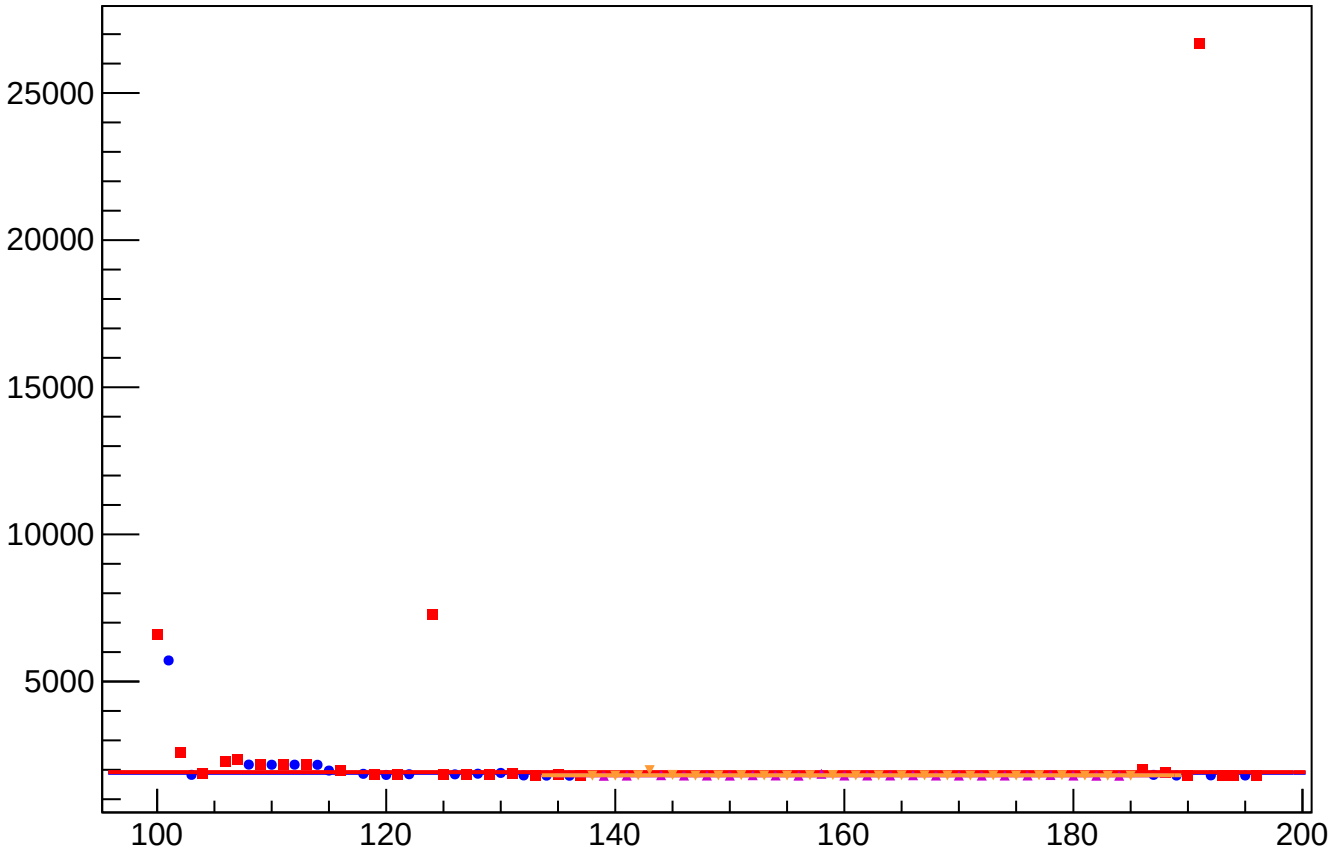
Left: -510.625+/-295.118 $\chi^2$/NDF: 55.1/47

Right: -604.289+/-418.124 $\chi^2$/NDF: 38.3/45

In: -427.483+/-348.542 $\chi^2$/NDF:49.3/42

Out: -646.651+/-333.890 $\chi^2$/NDF:43.9/50

All: -541.770+/-241.110 $\chi^2$/NDF: 93.4/93




Right In: 1896.975+/-0.436 $\chi^2$/NDF: 657206.1/19

Left Out: 1814.435+/-0.291 $\chi^2$/NDF:13102.1/24

Right Out: 1921.100+/-0.403 $\chi^2$/NDF: 727967.7/25

Left In: 1810.457+/-0.299 $\chi^2$/NDF:1967.2/22

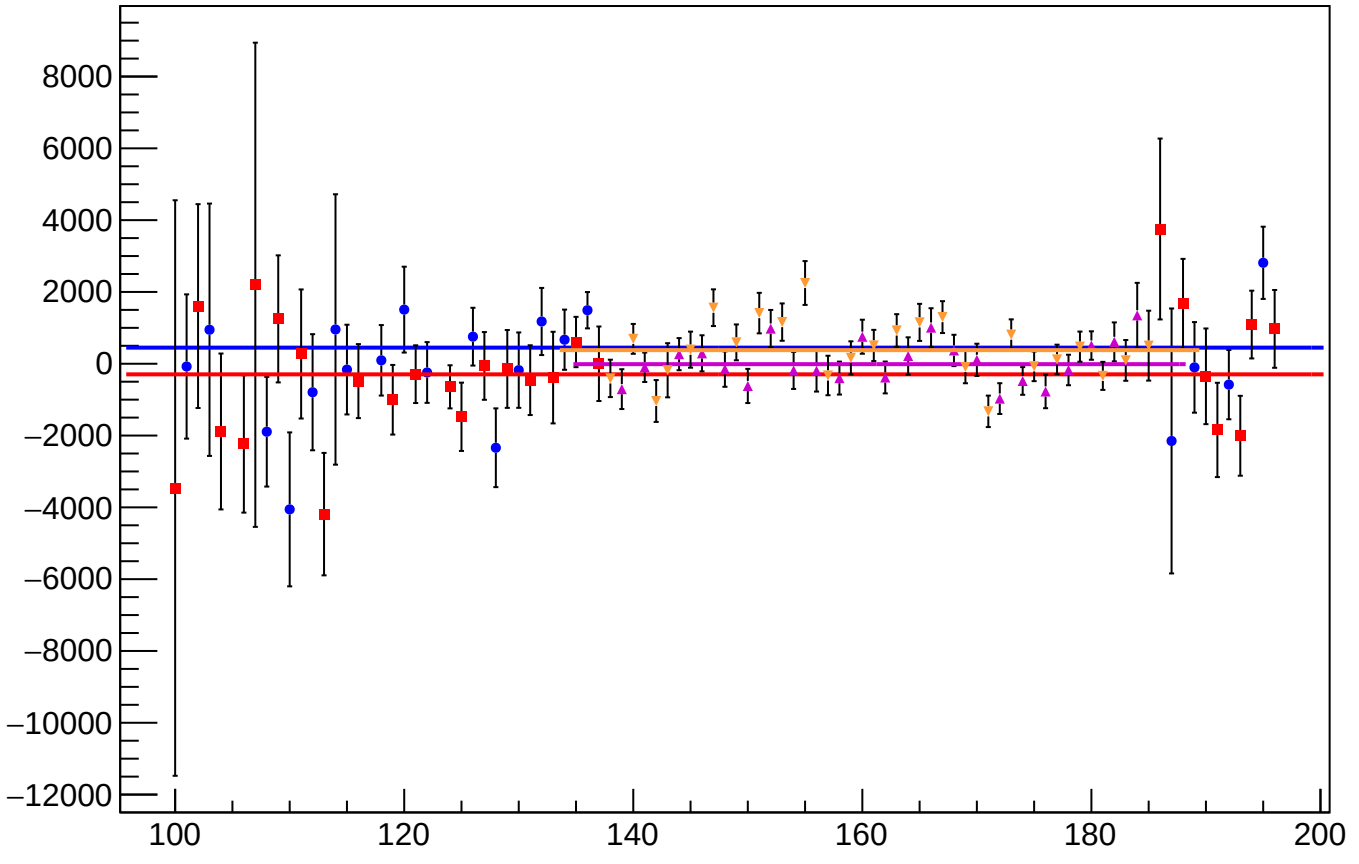
Left: 1812.496+/-0.209 $\chi^2$/NDF: 15160.0/47

Right: 1909.985+/-0.296 $\chi^2$/NDF: 1386828.0/45

In: 1838.155+/-0.246 $\chi^2$/NDF:685994.9/42

Out: 1851.115+/-0.236 $\chi^2$/NDF:787123.3/50

All: 1844.913+/-0.170 $\chi^2$/NDF: 1474560.2/93




Right In: 448.834+/-237.545 $\chi^2$/NDF: 28.5/19

Left Out: 379.343+/-97.014 $\chi^2$/NDF:62.3/24

Right Out: -295.095+/-221.486 $\chi^2$/NDF: 25.0/25

Left In: -11.539+/-98.975 $\chi^2$/NDF:31.1/22

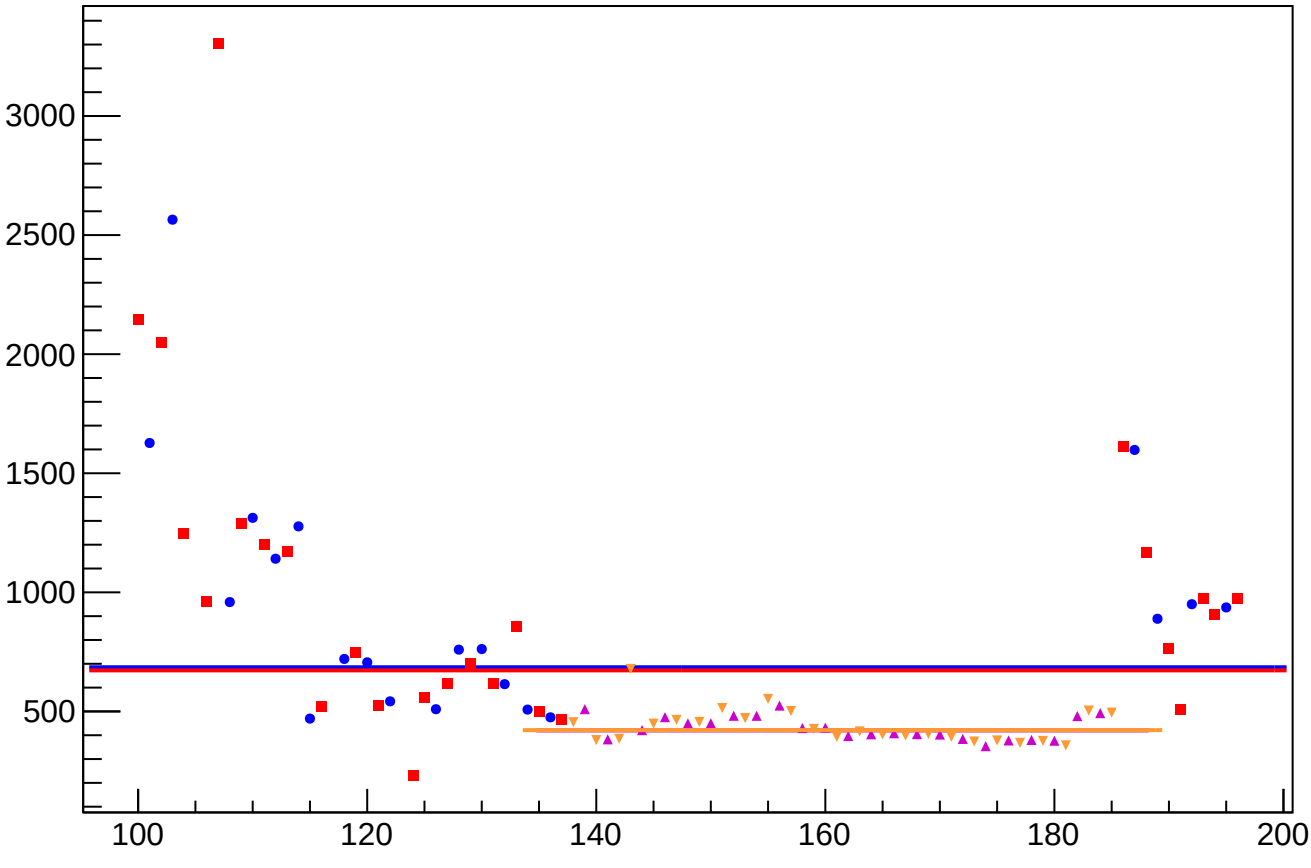
Left: 187.813+/-69.282 $\chi^2$/NDF: 101.4/47

Right: 50.876+/-161.994 $\chi^2$/NDF: 58.8/45

In: 56.561+/-91.362 $\chi^2$/NDF:62.8/42

Out: 270.778+/-88.863 $\chi^2$/NDF:95.1/50

All: 166.639+/-63.701 $\chi^2$/NDF: 160.8/93




Right In: 685.353+/-0.168 $\chi^2$/NDF: 2586743.2/19

Left Out: 421.420+/-0.069 $\chi^2$/NDF:742987.6/24

Right Out: 672.341+/-0.157 $\chi^2$/NDF: 4163765.2/25

Left In: 420.218+/-0.070 $\chi^2$/NDF:413172.4/22

Left: 420.831+/-0.049 $\chi^2$/NDF: 1156310.3/47

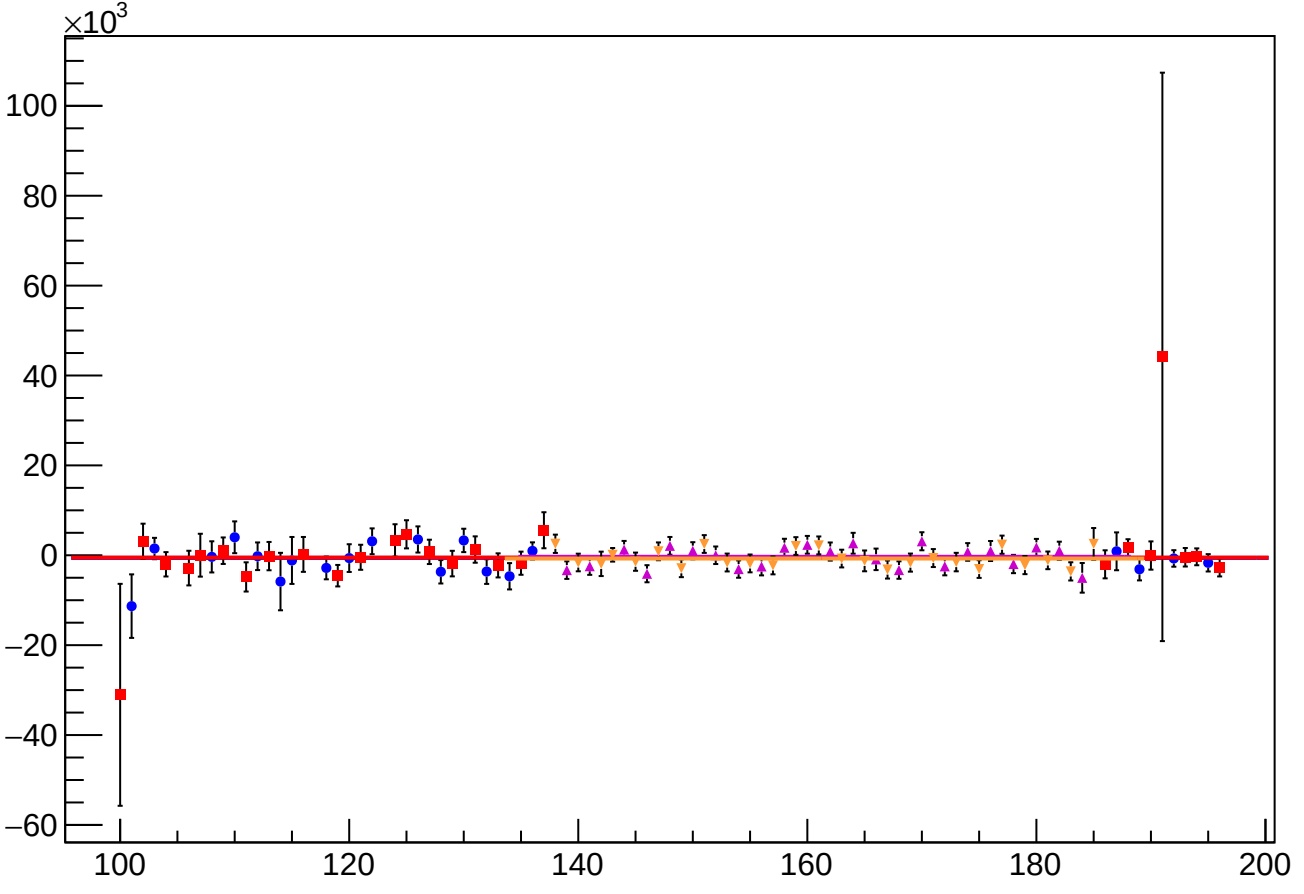
Right: 678.392+/-0.115 $\chi^2$/NDF: 6753718.4/45

In: 459.438+/-0.065 $\chi^2$/NDF:5122909.6/42

Out: 461.811+/-0.063 $\chi^2$/NDF:7060468.5/50

All: 460.657+/-0.045 $\chi^2$/NDF: 12184071.4/93

# dit_asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -578.586+/-616.682 $\chi^2$/NDF: 18.8/19

Left Out: -724.527+/-404.417 $\chi^2$/NDF:22.2/24

Right Out: -522.676+/-564.234 $\chi^2$/NDF: 18.8/25

Left In: -341.223+/-422.858 $\chi^2$/NDF:29.6/22

Left: -541.415+/-292.268 $\chi^2$/NDF: 52.3/47

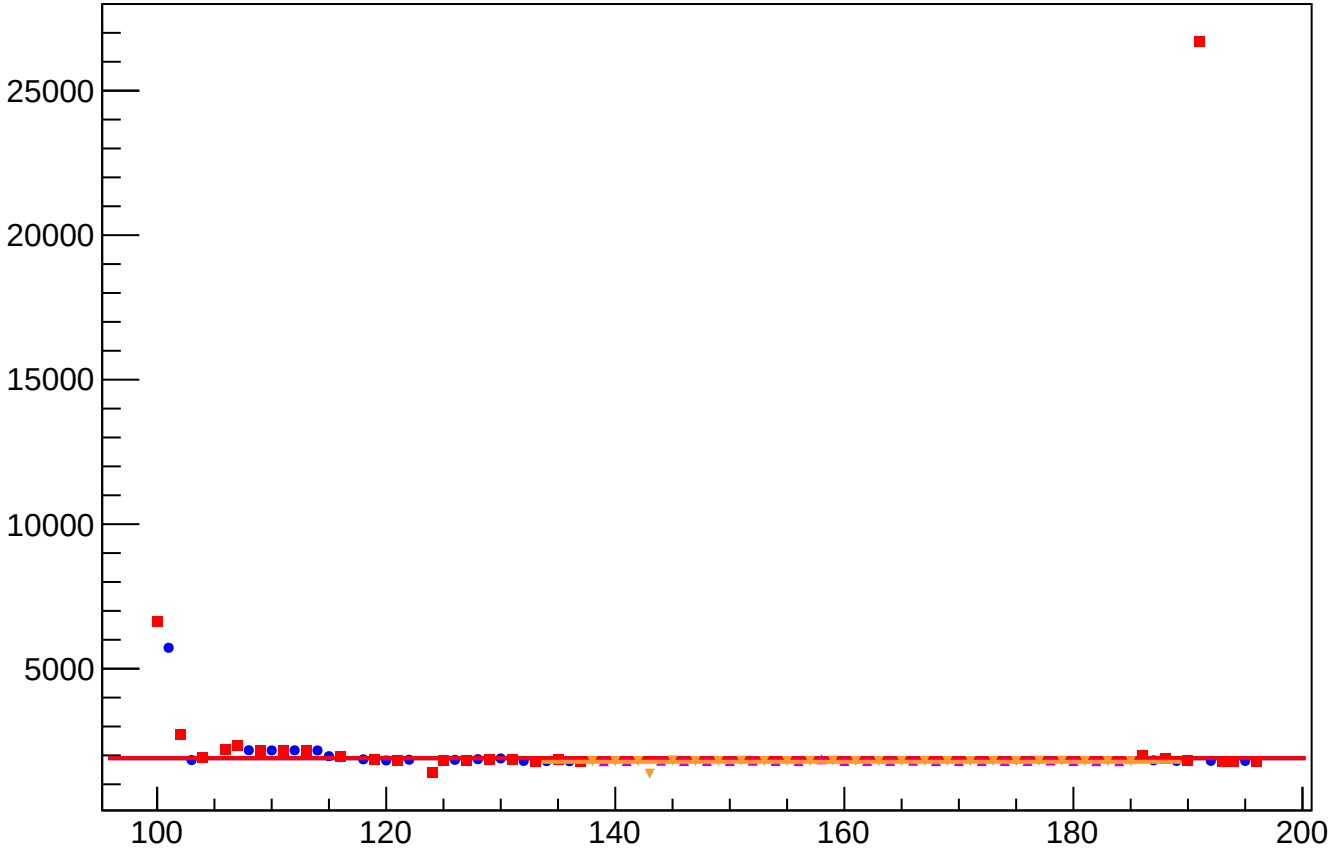
Right: -548.153+/-416.283 $\chi^2$/NDF: 37.6/45

In: -417.135+/-348.746 $\chi^2$/NDF:48.5/42

Out: -656.022+/-328.704 $\chi^2$/NDF:41.1/50

All: -543.640+/-239.200 $\chi^2$/NDF: 89.9/93

# dit_asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 1898.845+/-0.436 $\chi^2$/NDF: 656956.5/19

Left Out: 1776.721+/-0.286 $\chi^2$/NDF:161294.8/24

Right Out: 1906.678+/-0.399 $\chi^2$/NDF: 611836.3/25

Left In: 1811.084+/-0.299 $\chi^2$/NDF:1965.1/22

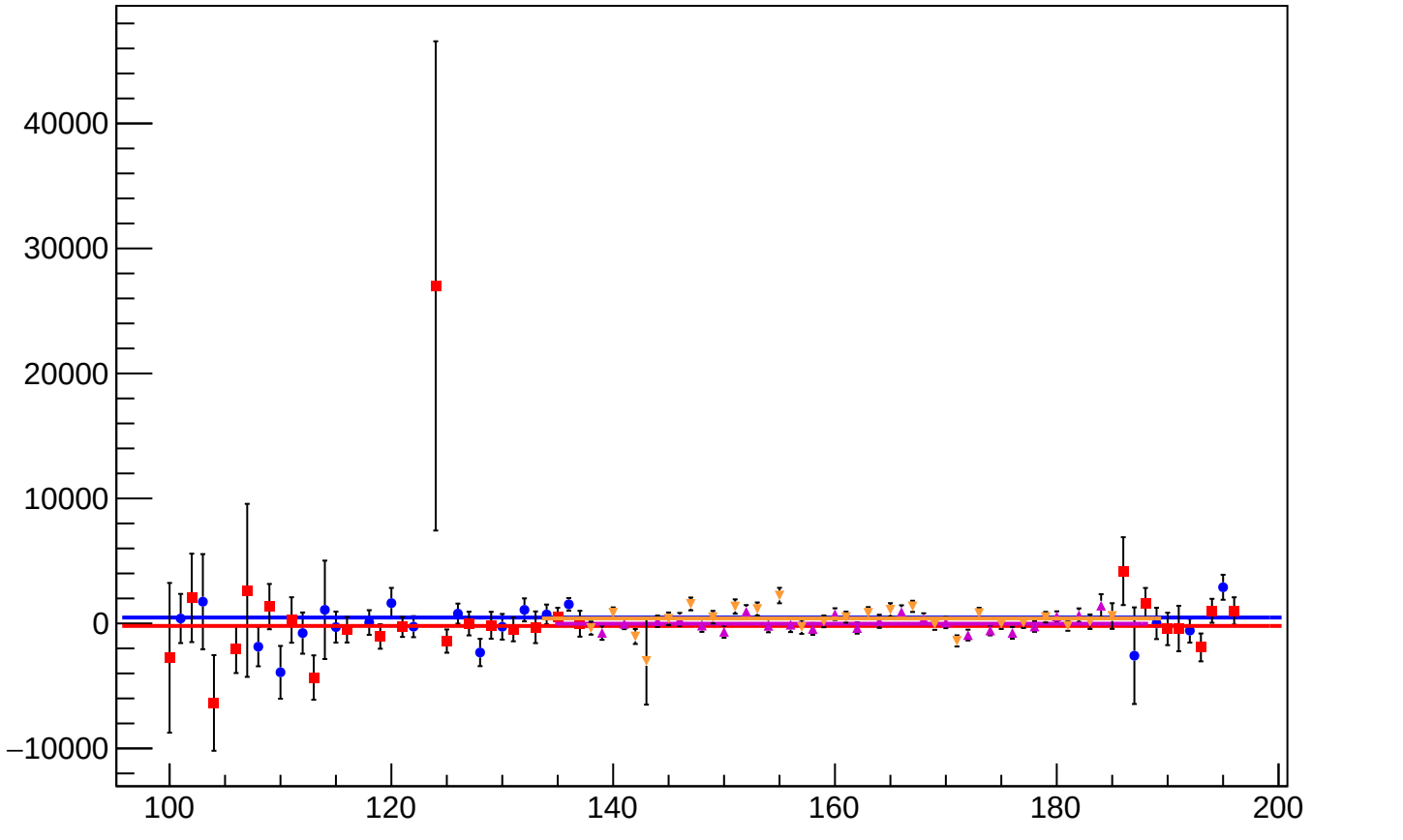
Left: 1793.137+/-0.207 $\chi^2$/NDF: 170157.7/47

Right: 1903.109+/-0.294 $\chi^2$/NDF: 1268968.5/45

In: 1839.151+/-0.247 $\chi^2$/NDF:686472.9/42

Out: 1820.826+/-0.232 $\chi^2$/NDF:843221.8/50

All: 1829.447+/-0.169 $\chi^2$/NDF: 1532618.7/93




Right In: 472.006+/-235.928 $\chi^2$/NDF: 29.3/19

Left Out: 398.269+/-99.165 $\chi^2$/NDF:60.5/24

Right Out: -200.846+/-241.163 $\chi^2$/NDF: 26.2/25

Left In: -21.453+/-100.264 $\chi^2$/NDF:30.8/22

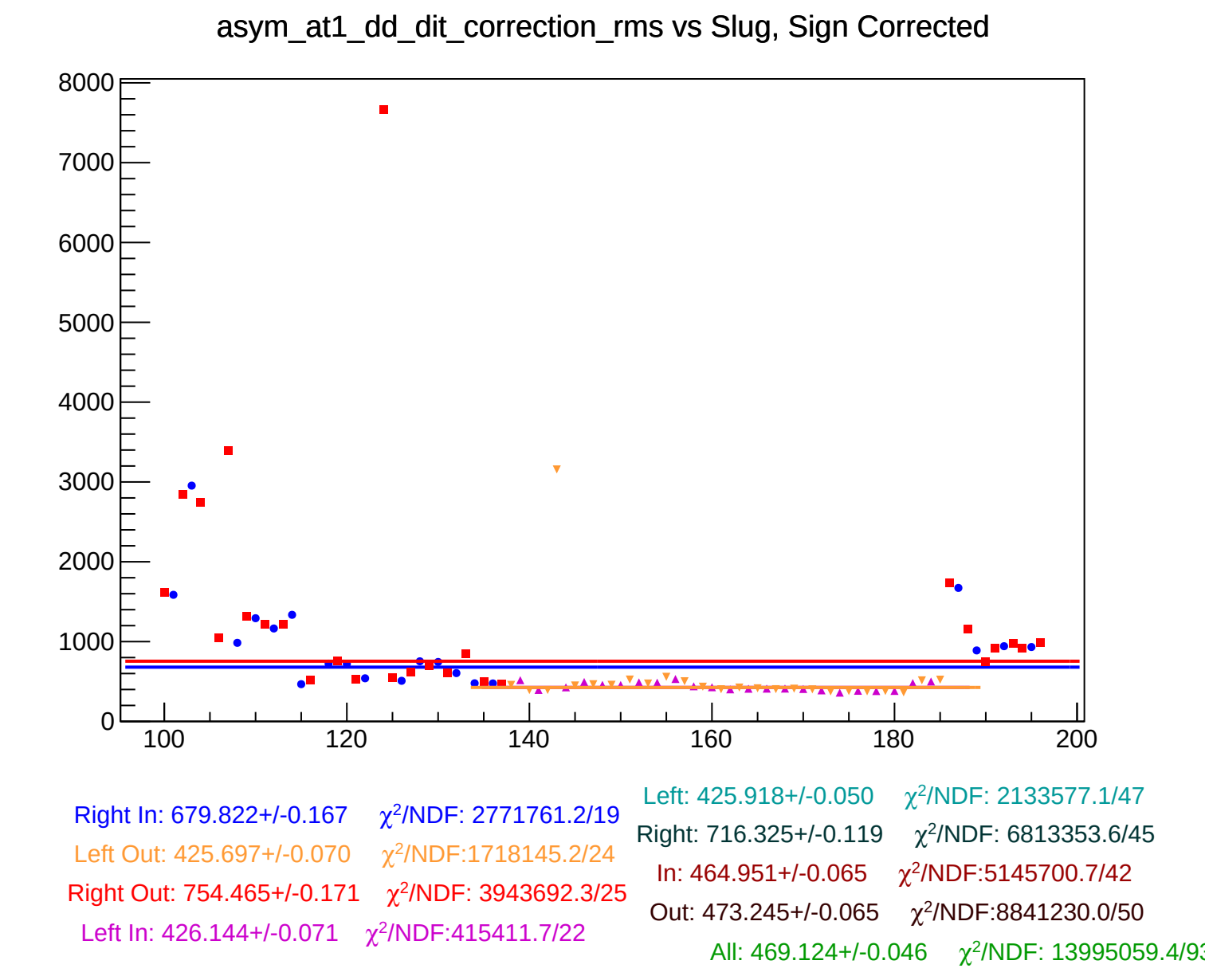
Left: 190.721+/-70.506 $\chi^2$/NDF: 100.2/47

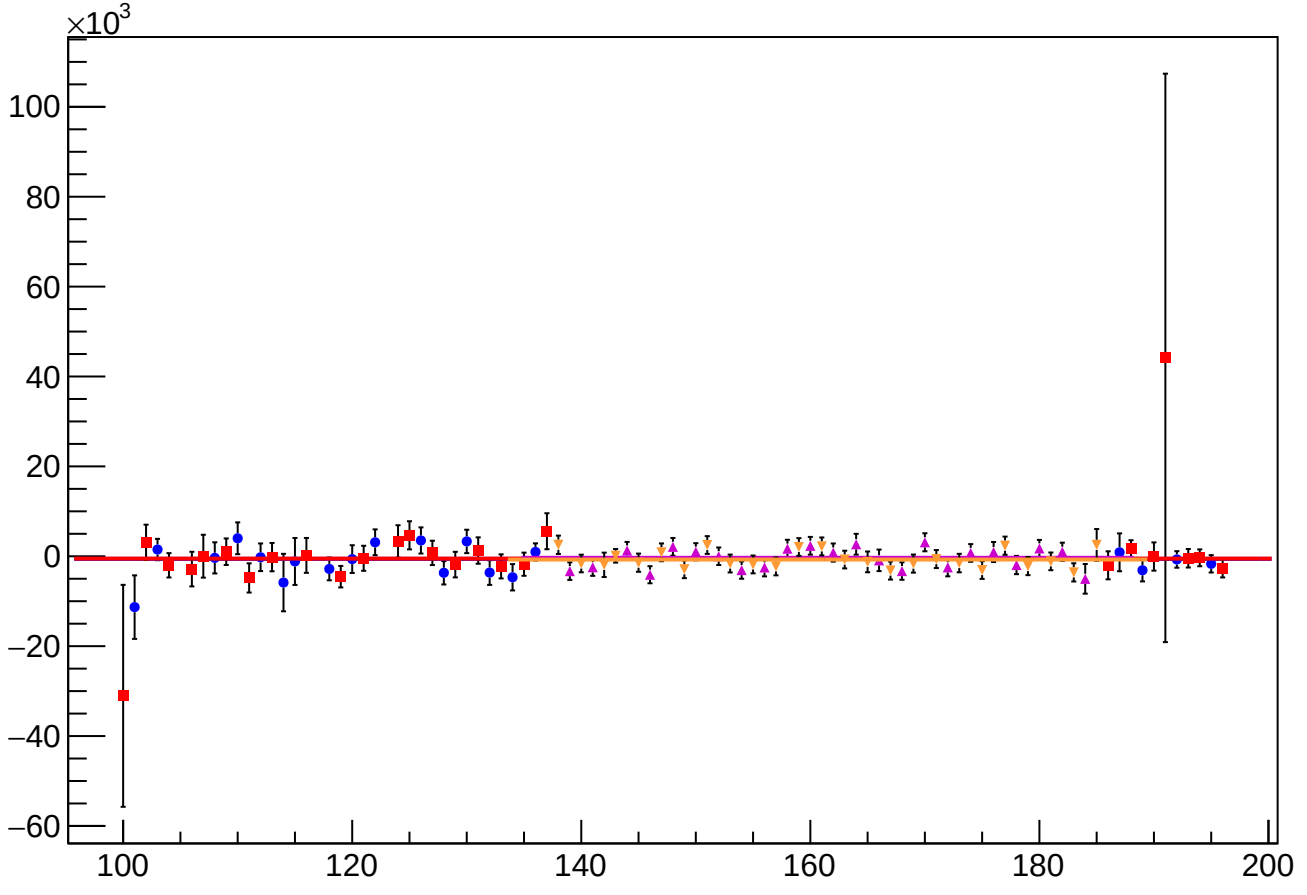
Right: 142.962+/-168.647 $\chi^2$/NDF: 59.5/45

In: 54.035+/-92.277 $\chi^2$/NDF:63.9/42

Out: 311.621+/-91.714 $\chi^2$/NDF:92.0/50

All: 183.616+/-65.050 $\chi^2$/NDF: 159.8/93


asym_at1_dd_dit_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
1000
0
100
120
140
160
180
200
Right In: 679.822+/-0.167 χ²/NDF: 2771761.2/19
Left Out: 425.697+/-0.070 χ²/NDF:1718145.2/24
Right Out: 754.465+/-0.171 χ²/NDF: 3943692.3/25
Left In: 426.144+/-0.071 χ²/NDF:415411.7/22
Left: 425.918+/-0.050 χ²/NDF: 2133577.1/47
Right: 716.325+/-0.119 χ²/NDF: 6813353.6/45
In: 464.951+/-0.065 χ²/NDF:5145700.7/42
Out: 473.245+/-0.065 χ²/NDF:8841230.0/50
All: 469.124+/-0.046 χ²/NDF: 13995059.4/93




Right In: -578.586+/-616.682 $\chi^2$/NDF: 18.8/19

Left Out: -724.528+/-404.417 $\chi^2$/NDF:22.2/24

Right Out: -522.675+/-564.234 $\chi^2$/NDF: 18.8/25

Left In: -341.223+/-422.858 $\chi^2$/NDF:29.6/22

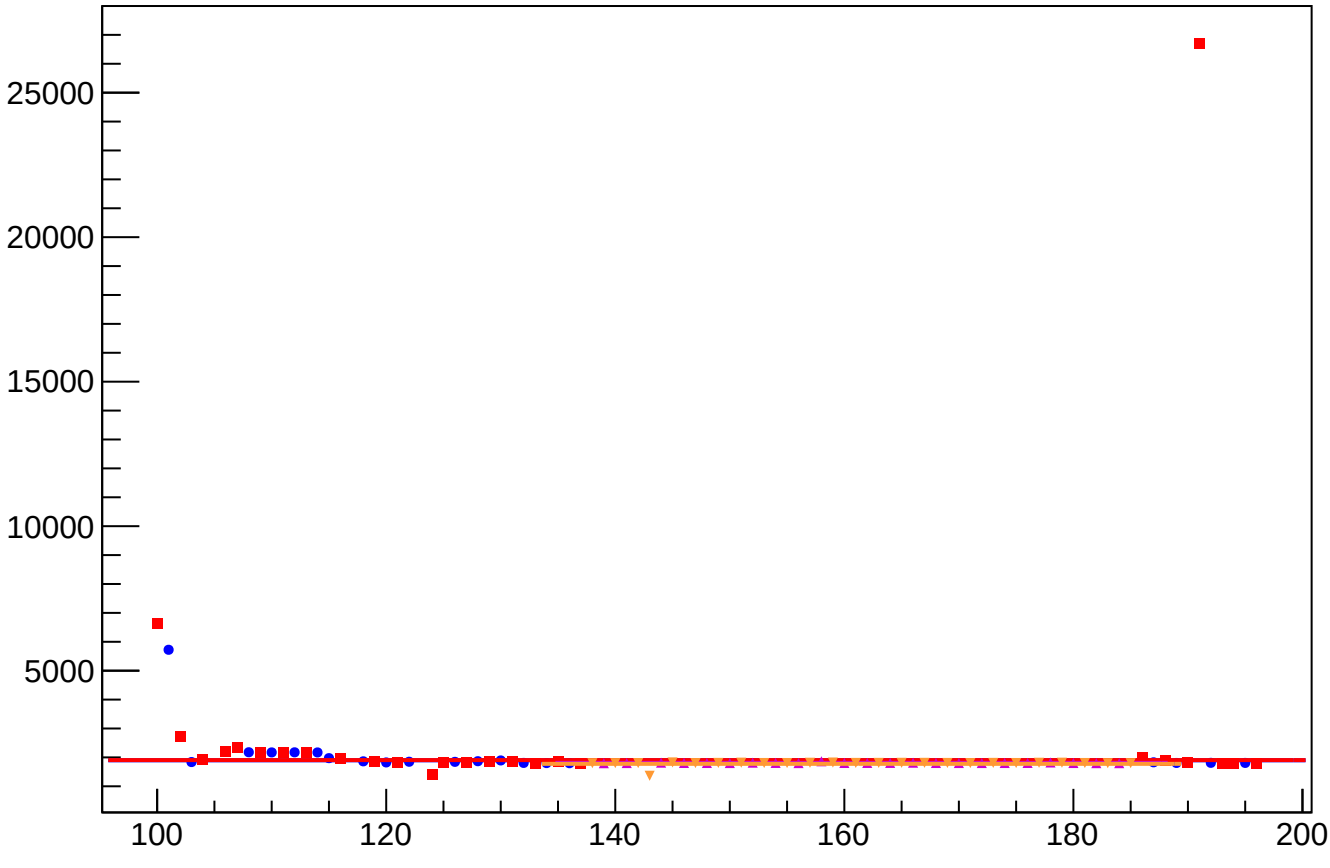
Left: -541.415+/-292.268 $\chi^2$/NDF: 52.3/47

Right: -548.152+/-416.283 $\chi^2$/NDF: 37.6/45

In: -417.135+/-348.746 $\chi^2$/NDF:48.5/42

Out: -656.023+/-328.704 $\chi^2$/NDF:41.1/50

All: -543.640+/-239.200 $\chi^2$/NDF: 89.9/93




Right In: 1898.845+/-0.436 $\chi^2$/NDF: 656956.6/19

Left Out: 1776.721+/-0.286 $\chi^2$/NDF:161294.8/24

Right Out: 1906.678+/-0.399 $\chi^2$/NDF: 611836.2/25

Left In: 1811.084+/-0.299 $\chi^2$/NDF:1965.1/22

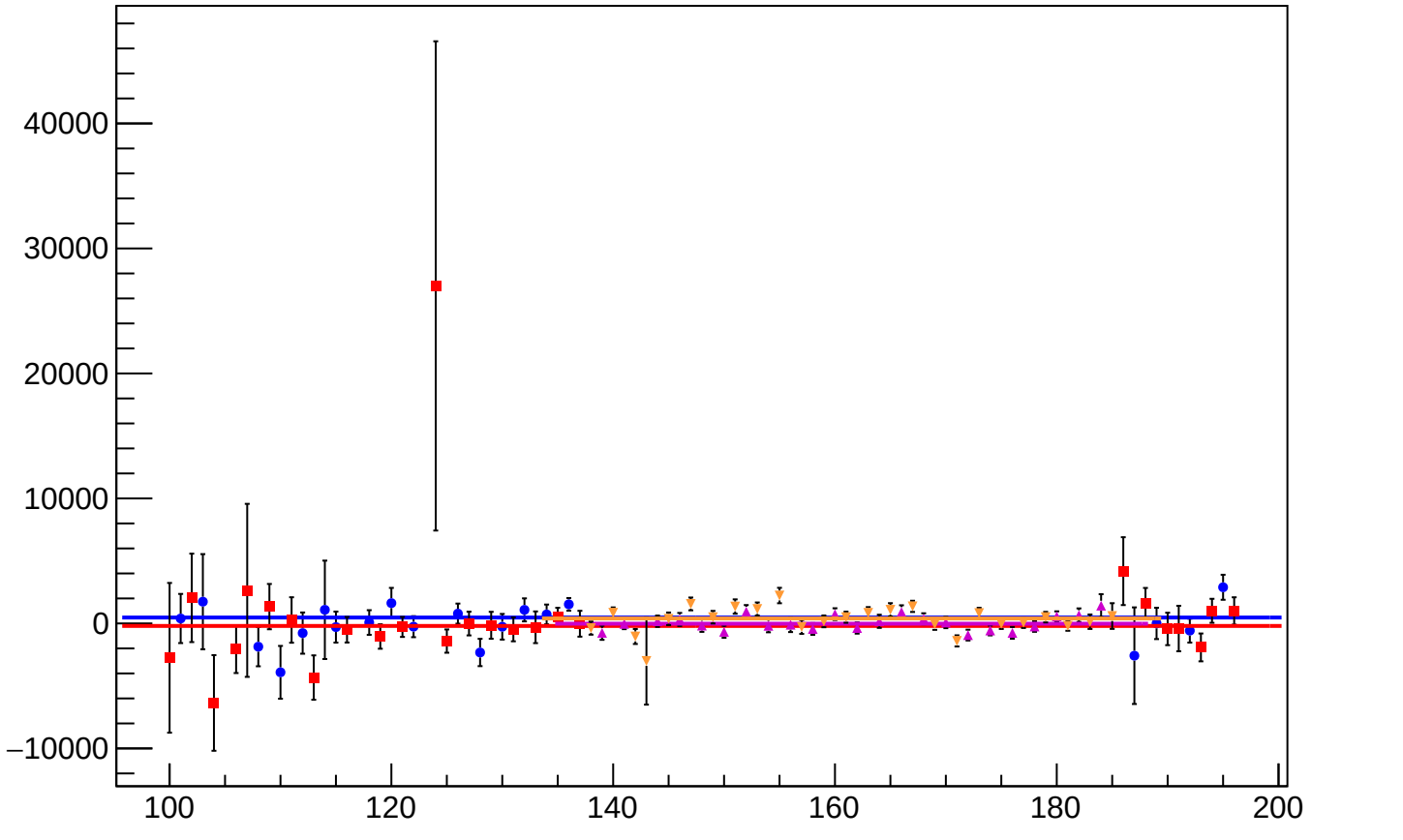
Left: 1793.137+/-0.207 $\chi^2$/NDF: 170157.7/47

Right: 1903.109+/-0.294 $\chi^2$/NDF: 1268968.4/45

In: 1839.151+/-0.247 $\chi^2$/NDF:686472.9/42

Out: 1820.826+/-0.232 $\chi^2$/NDF:843221.6/50

All: 1829.447+/-0.169 $\chi^2$/NDF: 1532618.5/93




Right In: 472.005+/-235.928 $\chi^2$/NDF: 29.3/19

Left Out: 398.268+/-99.165 $\chi^2$/NDF:60.5/24

Right Out: -200.846+/-241.163 $\chi^2$/NDF: 26.2/25

Left In: -21.452+/-100.264 $\chi^2$/NDF:30.8/22

Left: 190.722+/-70.506 $\chi^2$/NDF: 100.2/47

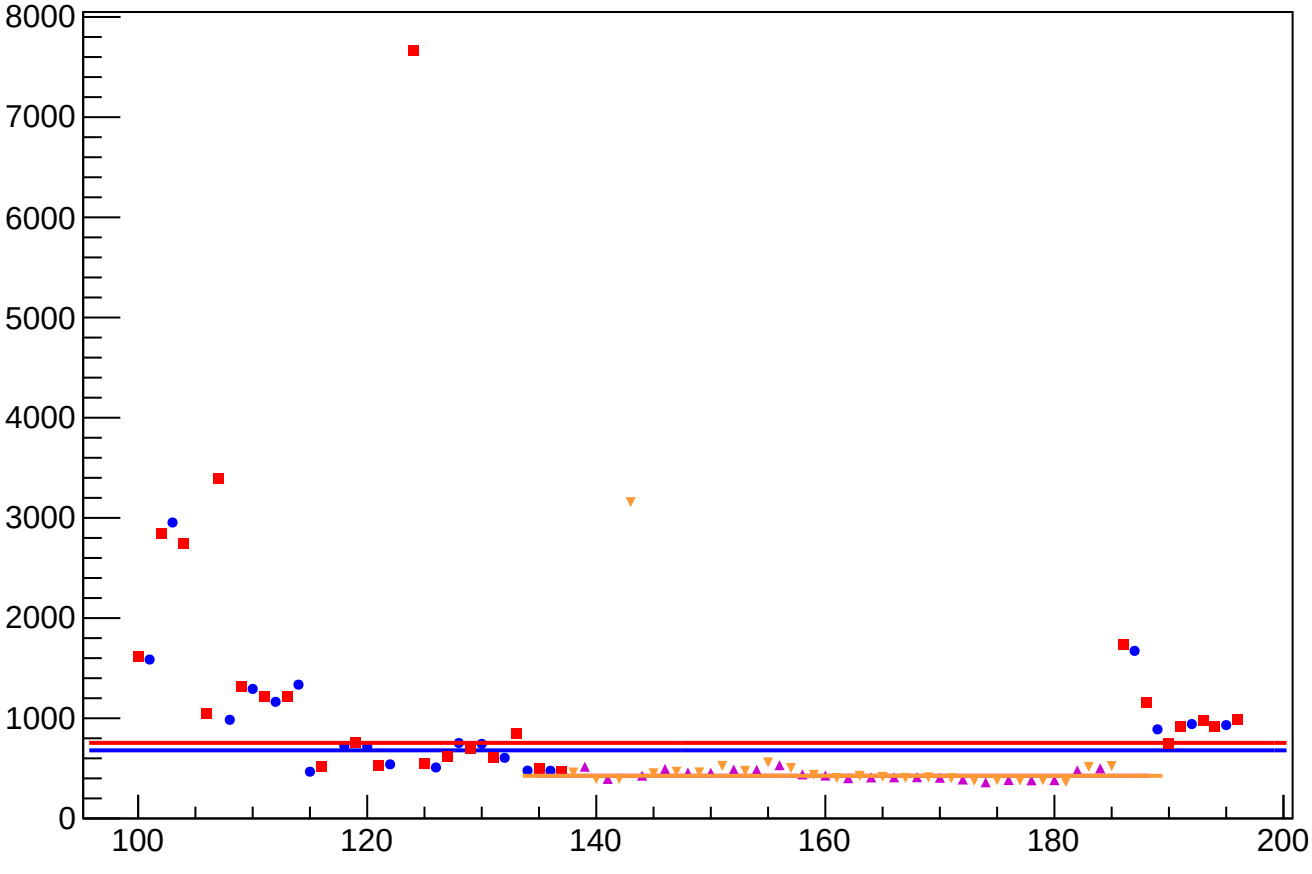
Right: 142.961+/-168.647 $\chi^2$/NDF: 59.5/45

In: 54.035+/-92.277 $\chi^2$/NDF:63.9/42

Out: 311.620+/-91.714 $\chi^2$/NDF:92.0/50

All: 183.616+/-65.050 $\chi^2$/NDF: 159.8/93

asym_at1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 679.822+/-0.167 $\chi^2$/NDF: 2771761.4/19

Left Out: 425.696+/-0.070 $\chi^2$/NDF:1718147.9/24

Right Out: 754.465+/-0.171 $\chi^2$/NDF: 3943694.4/25

Left In: 426.144+/-0.071 $\chi^2$/NDF:415415.2/22

Left: 425.918+/-0.050 $\chi^2$/NDF: 2133583.2/47

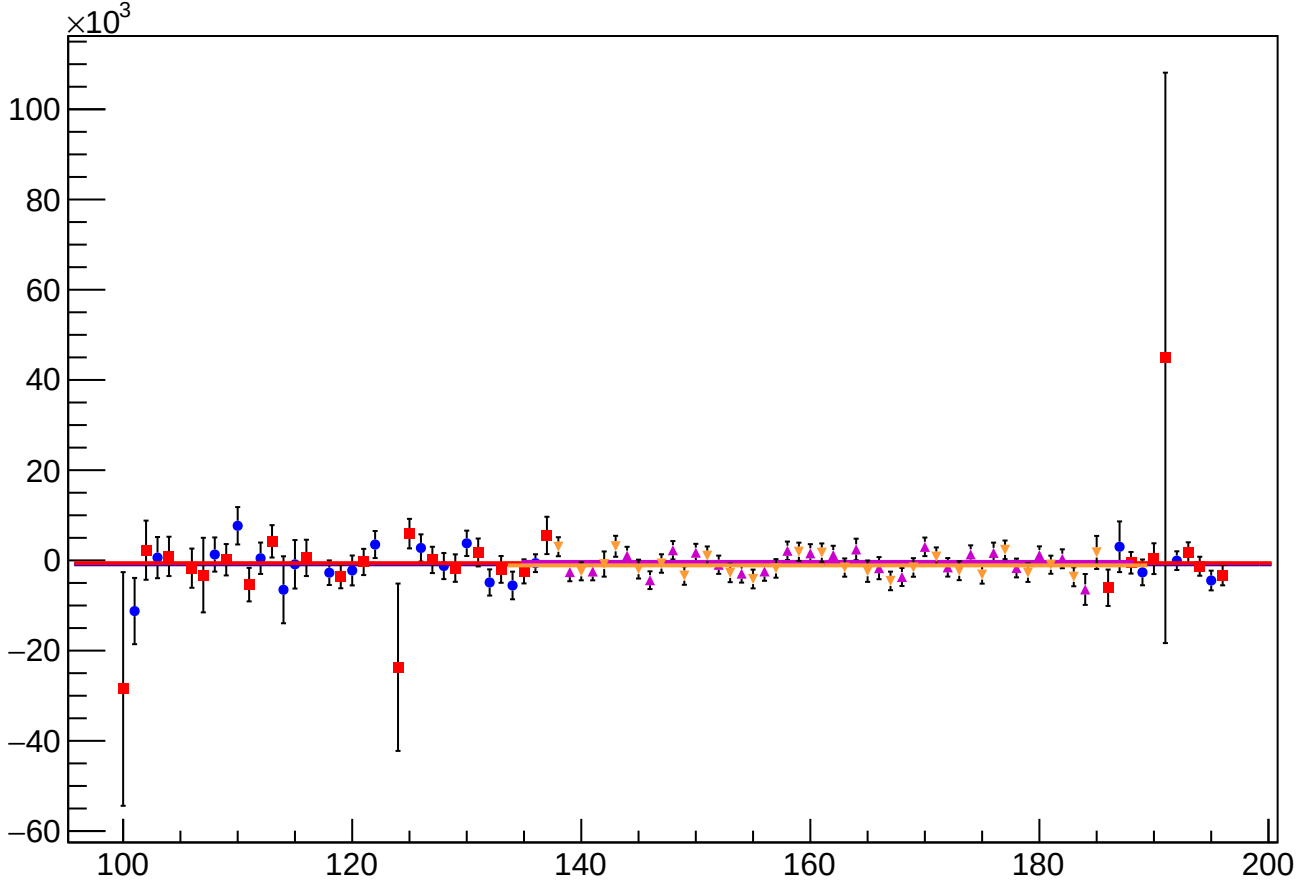
Right: 716.324+/-0.119 $\chi^2$/NDF: 6813355.9/45

In: 464.951+/-0.065 $\chi^2$/NDF:5145705.3/42

Out: 473.245+/-0.065 $\chi^2$/NDF:8841237.7/50

All: 469.123+/-0.046 $\chi^2$/NDF: 13995071.5/93

# asym_at1_dd_mean vs Slug, Sign Corrected




Right In: -859.363+/-690.145 $\chi^2$/NDF: 22.4/19

Left Out: -1105.791+/-424.648 $\chi^2$/NDF:28.0/24

Right Out: -618.034+/-649.589 $\chi^2$/NDF: 20.6/25

Left In: -346.936+/-434.947 $\chi^2$/NDF:28.8/22

Left: -735.454+/-303.847 $\chi^2$/NDF: 58.3/47

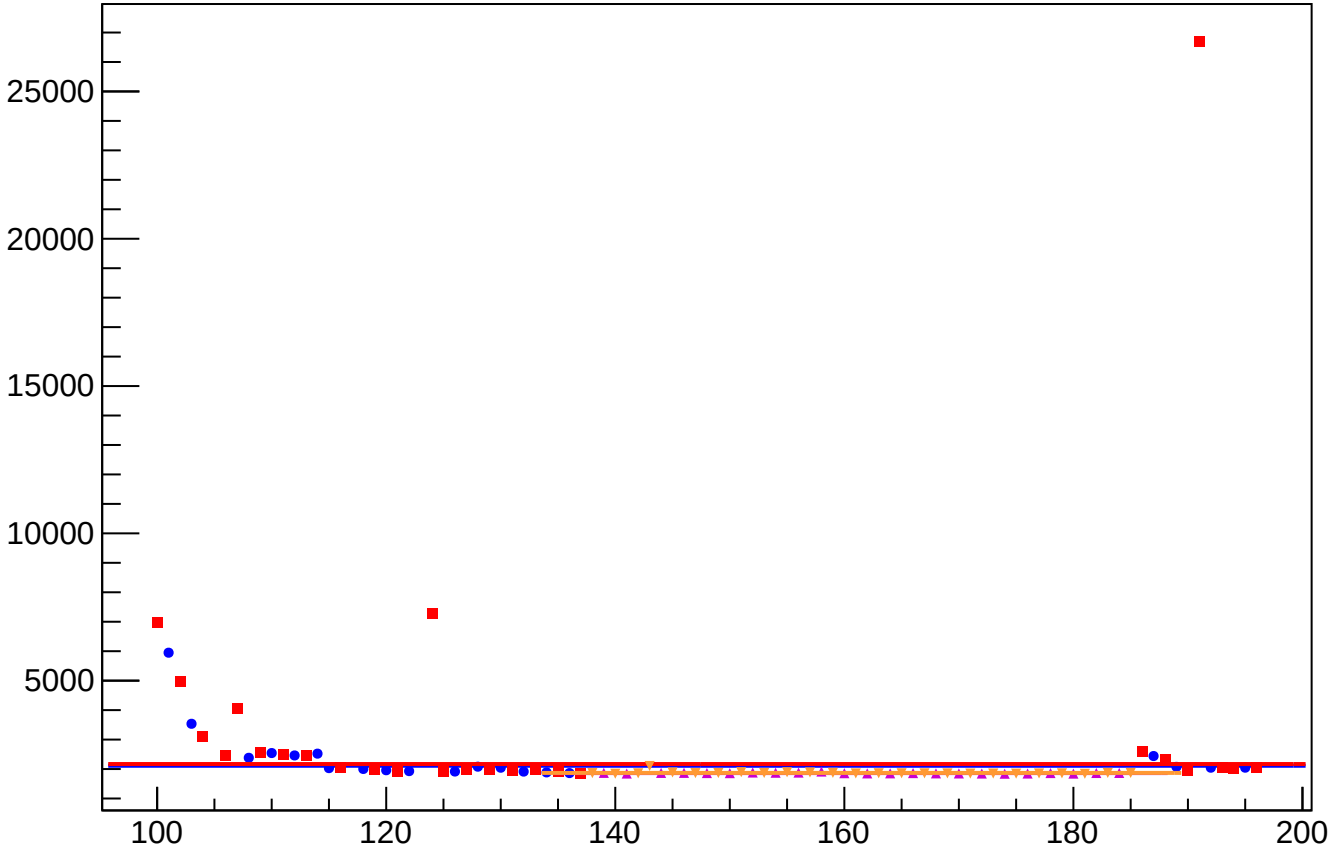
Right: -731.399+/-473.017 $\chi^2$/NDF: 43.0/45

In: -492.606+/-367.968 $\chi^2$/NDF:51.5/42

Out: -959.757+/-355.438 $\chi^2$/NDF:49.0/50

All: -734.270+/-255.648 $\chi^2$/NDF: 101.4/93

# asym_at1_dd_rms vs Slug, Sign Corrected




Right In: 2111.700+/-0.488 $\chi^2$/NDF: 886811.4/19

Left Out: 1868.941+/-0.300 $\chi^2$/NDF:23314.7/24

Right Out: 2169.749+/-0.459 $\chi^2$/NDF: 1305423.6/25

Left In: 1862.828+/-0.308 $\chi^2$/NDF:2714.5/22

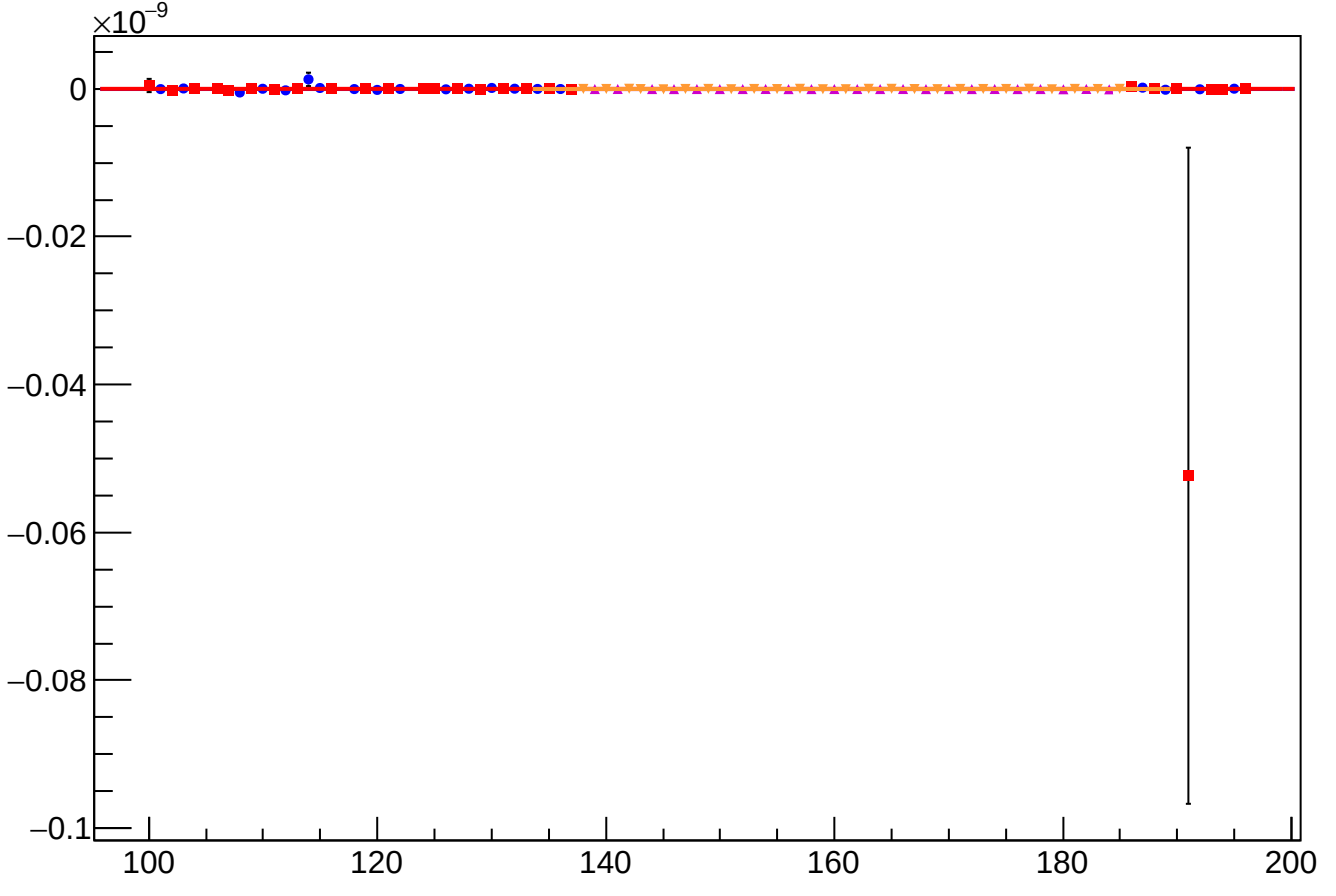
Left: 1865.958+/-0.215 $\chi^2$/NDF: 26231.5/47

Right: 2142.480+/-0.334 $\chi^2$/NDF: 2199737.5/45

In: 1933.576+/-0.260 $\chi^2$/NDF:1075669.2/42

Out: 1959.003+/-0.251 $\chi^2$/NDF:1629210.0/50

All: 1946.730+/-0.181 $\chi^2$/NDF: 2709819.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.7/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.3/22

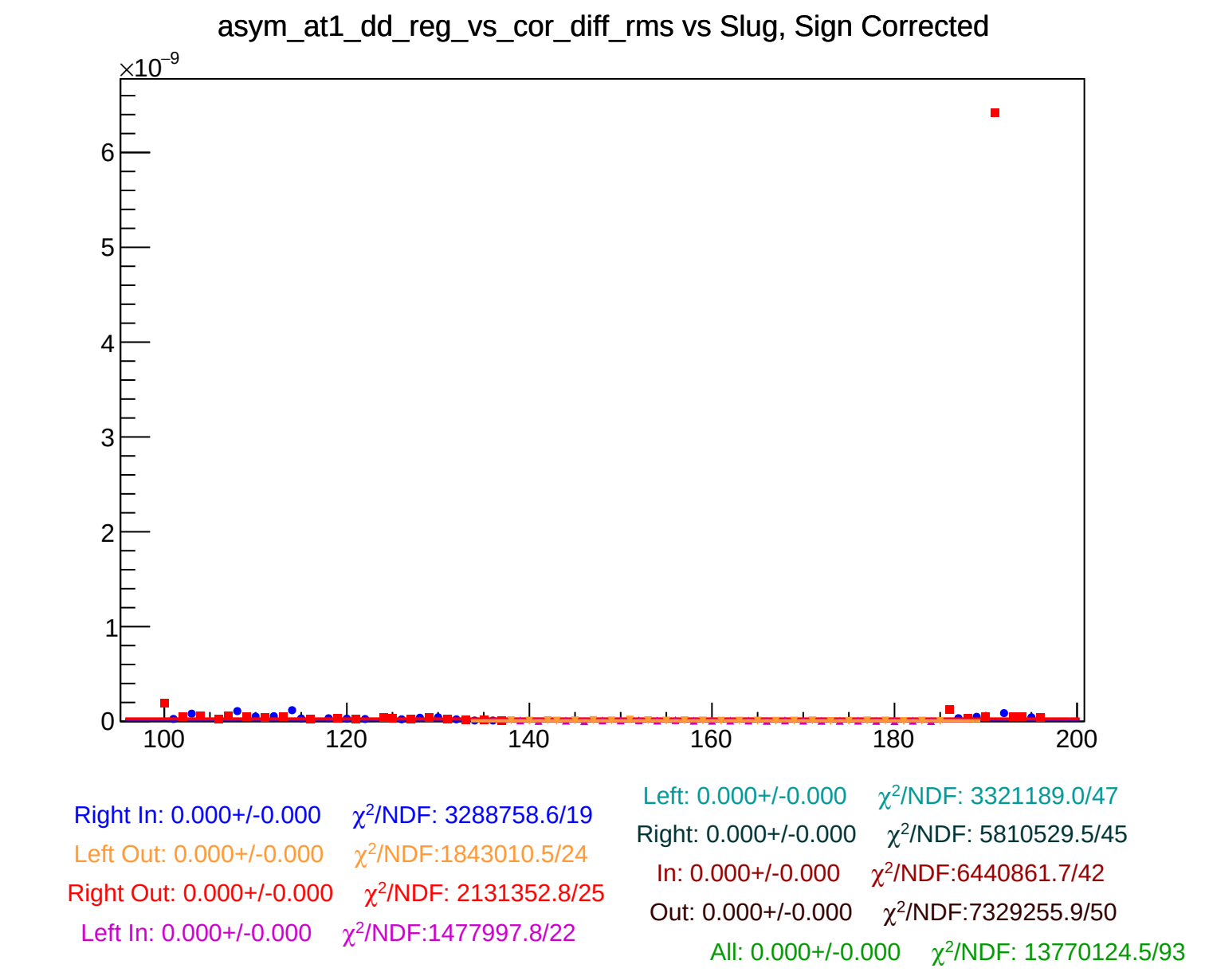
Left: -0.000+/-0.000 $\chi^2$/NDF: 61.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:37.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:63.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 102.9/93


asym_at1_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
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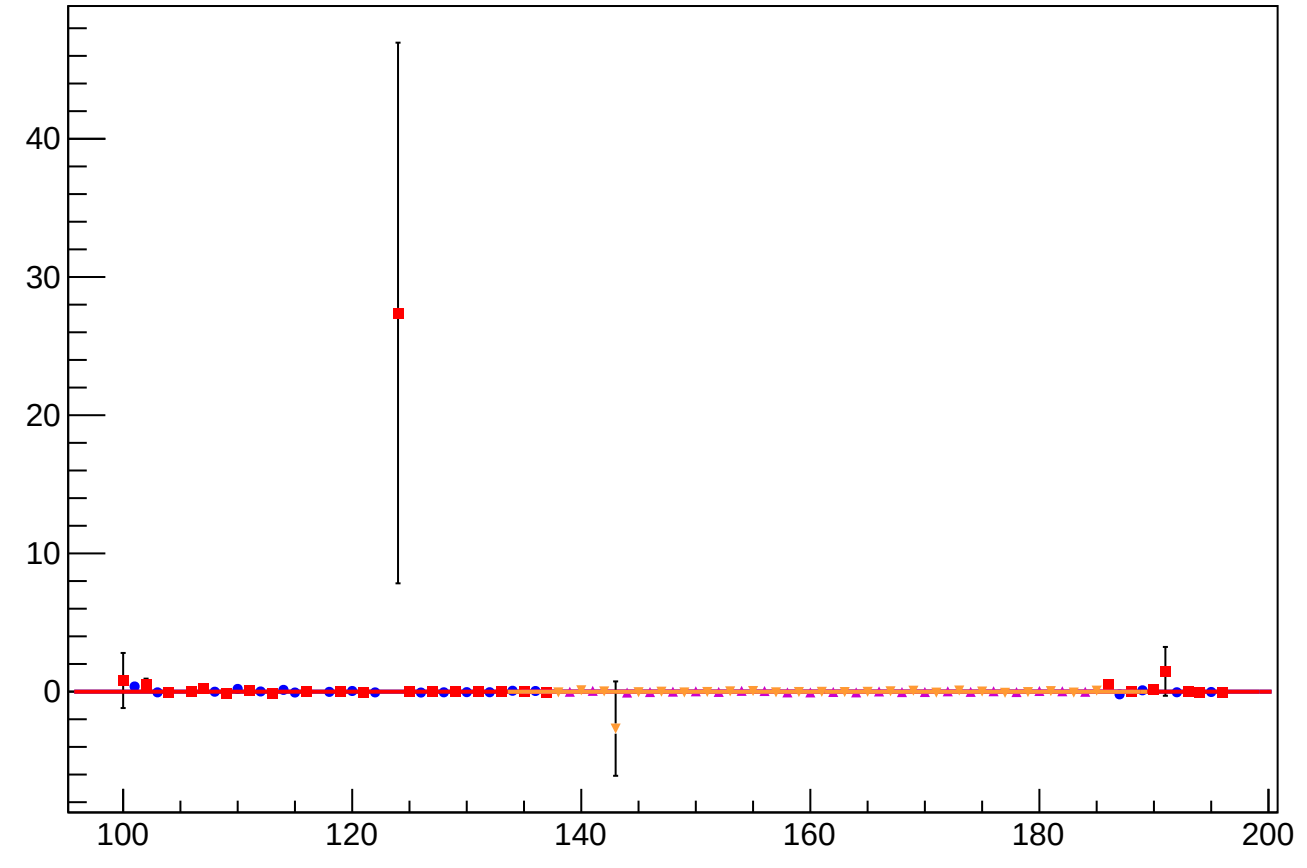
Right In: 0.000+/-0.000 χ²/NDF: 3288758.6/19
Left Out: 0.000+/-0.000 χ²/NDF:1843010.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 2131352.8/25
Left In: 0.000+/-0.000 χ²/NDF:1477997.8/22
Left: 0.000+/-0.000 χ²/NDF: 3321189.0/47
Right: 0.000+/-0.000 χ²/NDF: 5810529.5/45
In: 0.000+/-0.000 χ²/NDF:6440861.7/42
Out: 0.000+/-0.000 χ²/NDF:7329255.9/50
All: 0.000+/-0.000 χ²/NDF: 13770124.5/93




Right In: -0.001+/-0.014 $\chi^2$/NDF: 24.1/19

Left Out: -0.010+/-0.008 $\chi^2$/NDF:39.5/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 24.8/25

Left In: -0.004+/-0.008 $\chi^2$/NDF:20.8/22

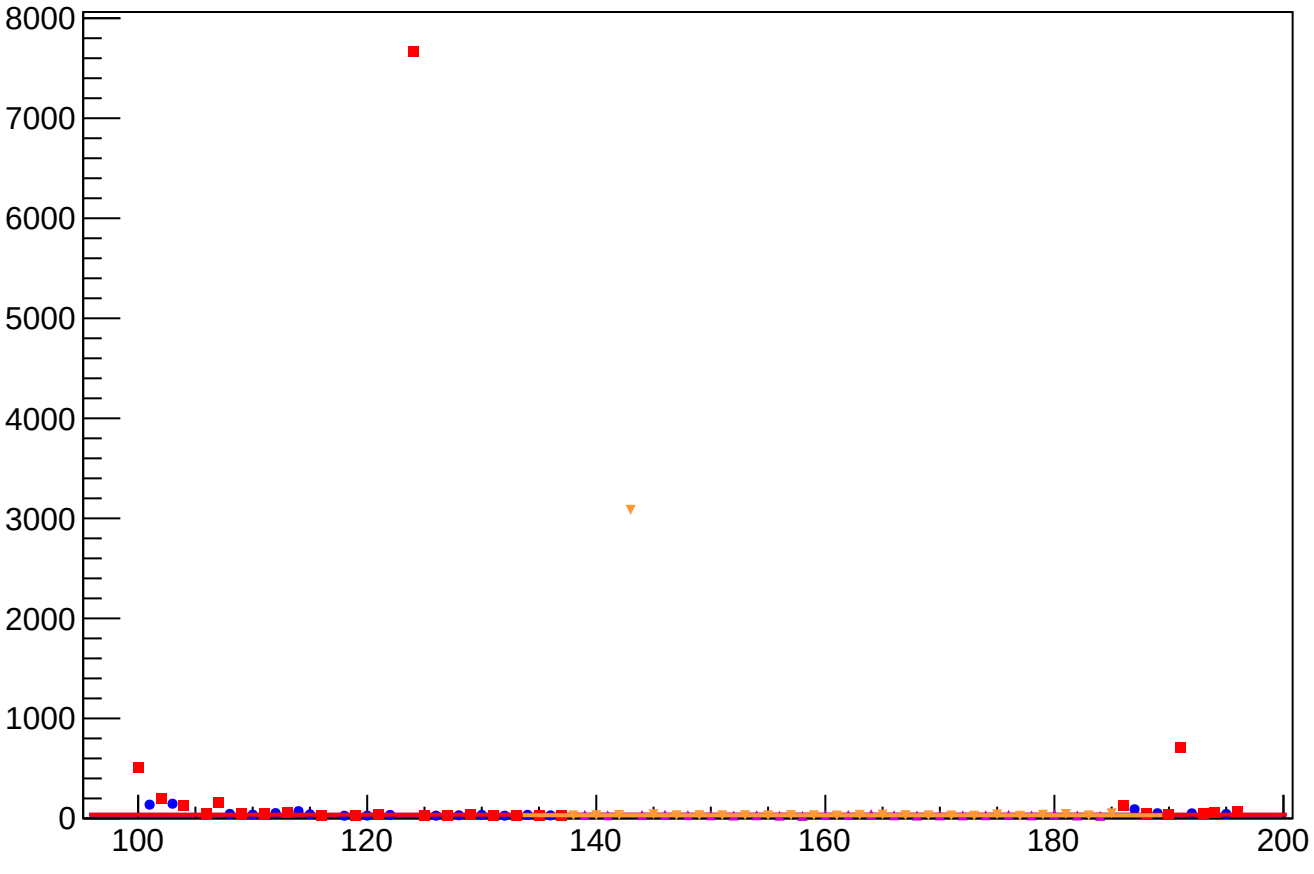
Left: -0.007+/-0.006 $\chi^2$/NDF: 60.7/47

Right: -0.003+/-0.009 $\chi^2$/NDF: 48.9/45

In: -0.003+/-0.007 $\chi^2$/NDF:44.9/42

Out: -0.008+/-0.007 $\chi^2$/NDF:64.5/50

All: -0.006+/-0.005 $\chi^2$/NDF: 109.7/93




Right In: 36.430+/-0.010 $\chi^2$/NDF: 2157319.6/19

Left Out: 32.277+/-0.006 $\chi^2$/NDF:2120929.6/24

Right Out: 37.397+/-0.009 $\chi^2$/NDF: 3584136.9/25

Left In: 32.421+/-0.006 $\chi^2$/NDF:426084.8/22

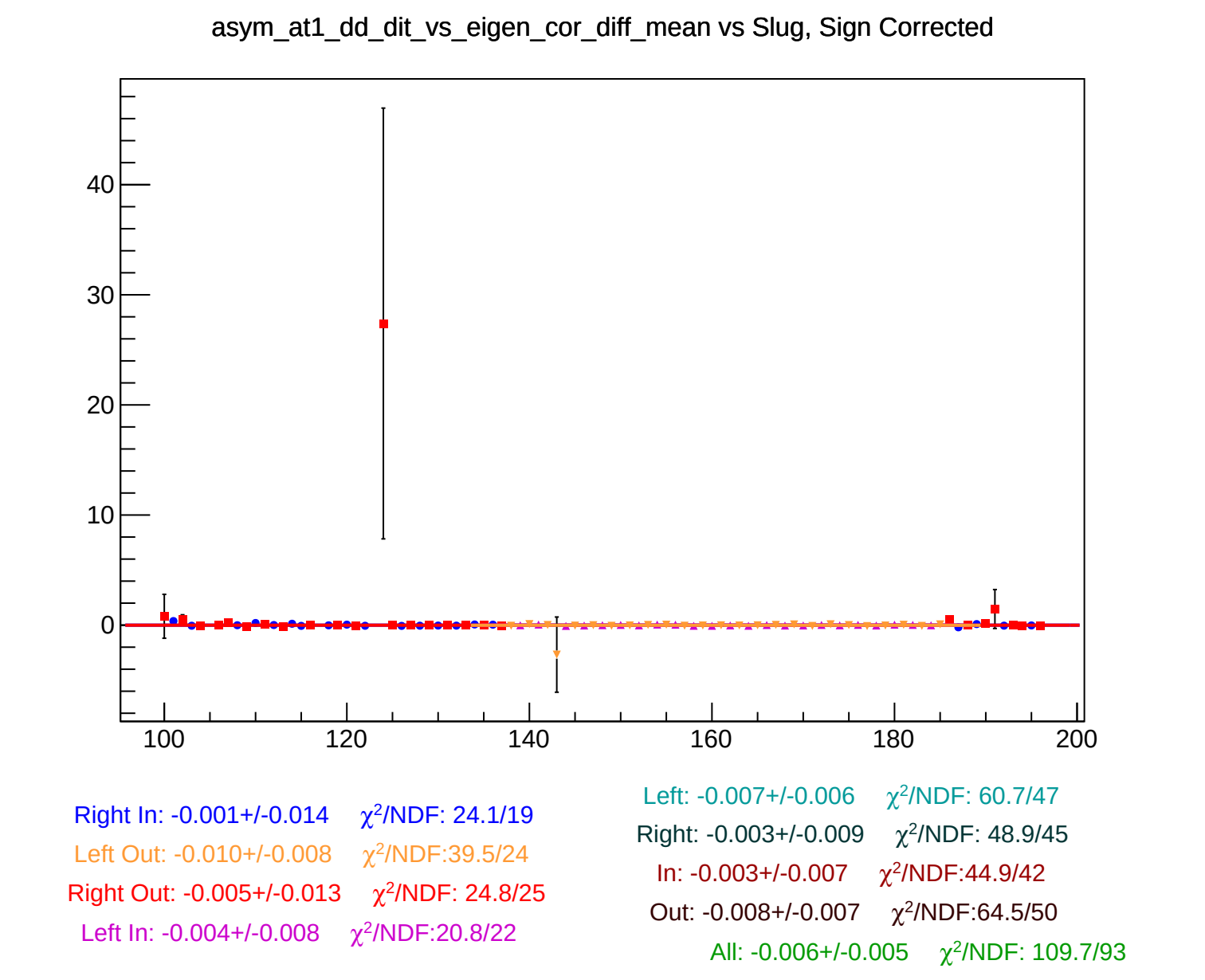
Left: 32.349+/-0.004 $\chi^2$/NDF: 2547318.7/47

Right: 36.928+/-0.007 $\chi^2$/NDF: 5746655.0/45

In: 33.507+/-0.005 $\chi^2$/NDF:2710113.1/42

Out: 33.710+/-0.005 $\chi^2$/NDF:5921505.6/50

All: 33.609+/-0.004 $\chi^2$/NDF: 8632451.3/93


asym_at1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
40
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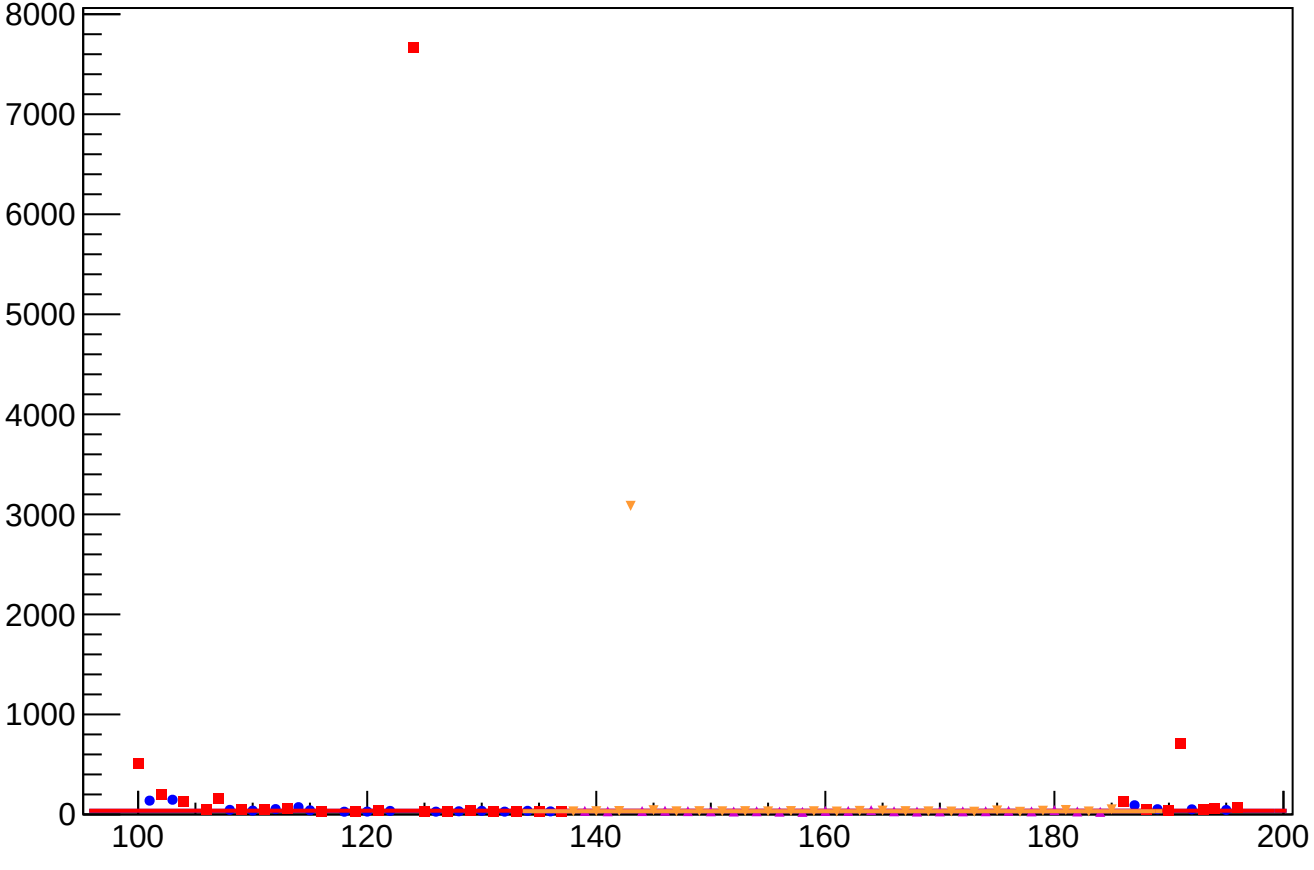
Right In: -0.001+/-0.014 χ²/NDF: 24.1/19
Left Out: -0.010+/-0.008 χ²/NDF:39.5/24
Right Out: -0.005+/-0.013 χ²/NDF: 24.8/25
Left In: -0.004+/-0.008 χ²/NDF:20.8/22
Left: -0.007+/-0.006 χ²/NDF: 60.7/47
Right: -0.003+/-0.009 χ²/NDF: 48.9/45
In: -0.003+/-0.007 χ²/NDF:44.9/42
Out: -0.008+/-0.007 χ²/NDF:64.5/50
All: -0.006+/-0.005 χ²/NDF: 109.7/93

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.430+/-0.010 $\chi^2$/NDF: 2157319.6/19

Left Out: 32.277+/-0.006 $\chi^2$/NDF:2120929.6/24

Right Out: 37.397+/-0.009 $\chi^2$/NDF: 3584136.9/25

Left In: 32.421+/-0.006 $\chi^2$/NDF:426084.8/22

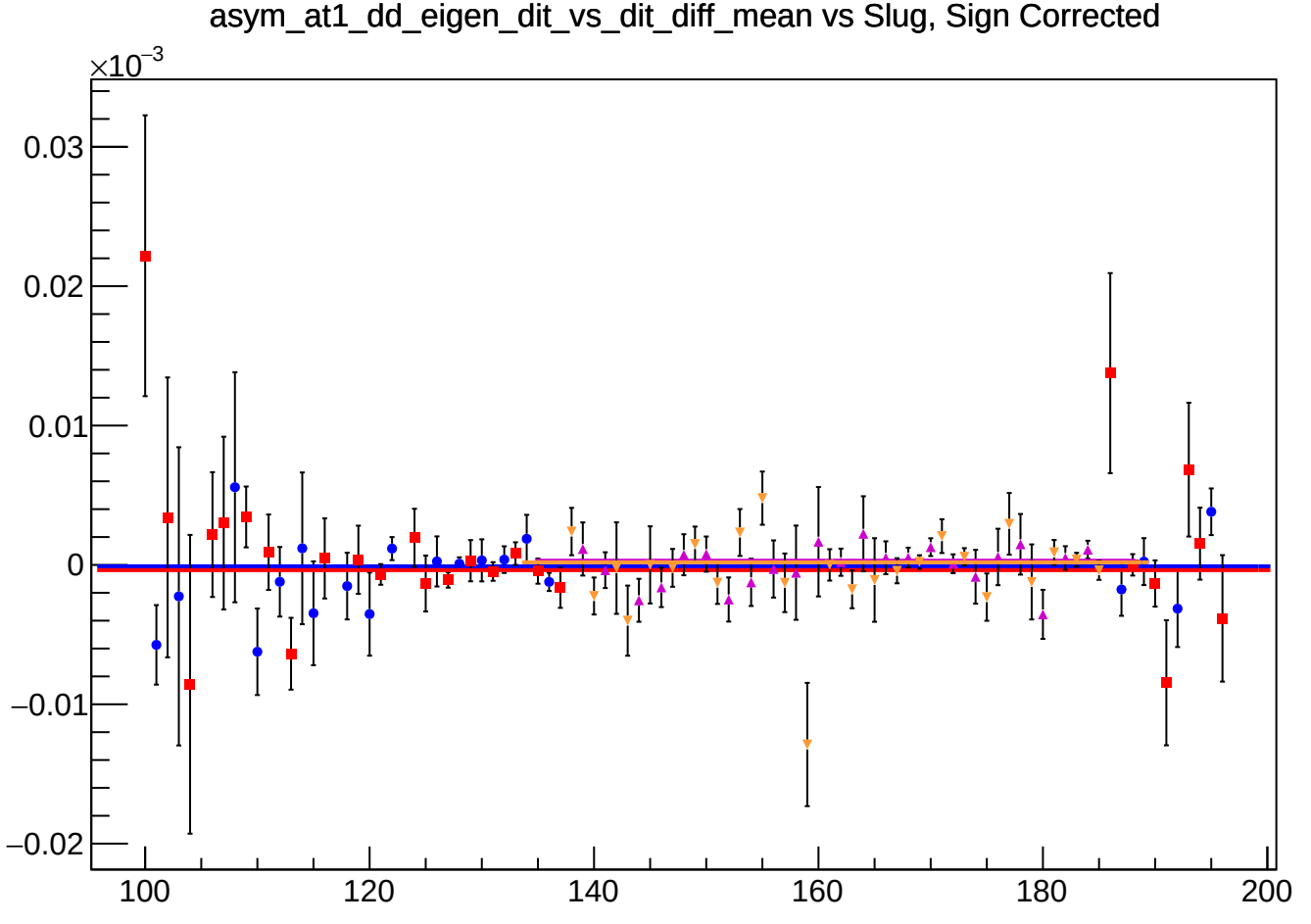
Left: 32.349+/-0.004 $\chi^2$/NDF: 2547318.7/47

Right: 36.928+/-0.007 $\chi^2$/NDF: 5746655.0/45

In: 33.507+/-0.005 $\chi^2$/NDF:2710113.1/42

Out: 33.710+/-0.005 $\chi^2$/NDF:5921505.6/50

All: 33.609+/-0.004 $\chi^2$/NDF: 8632451.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.2/22

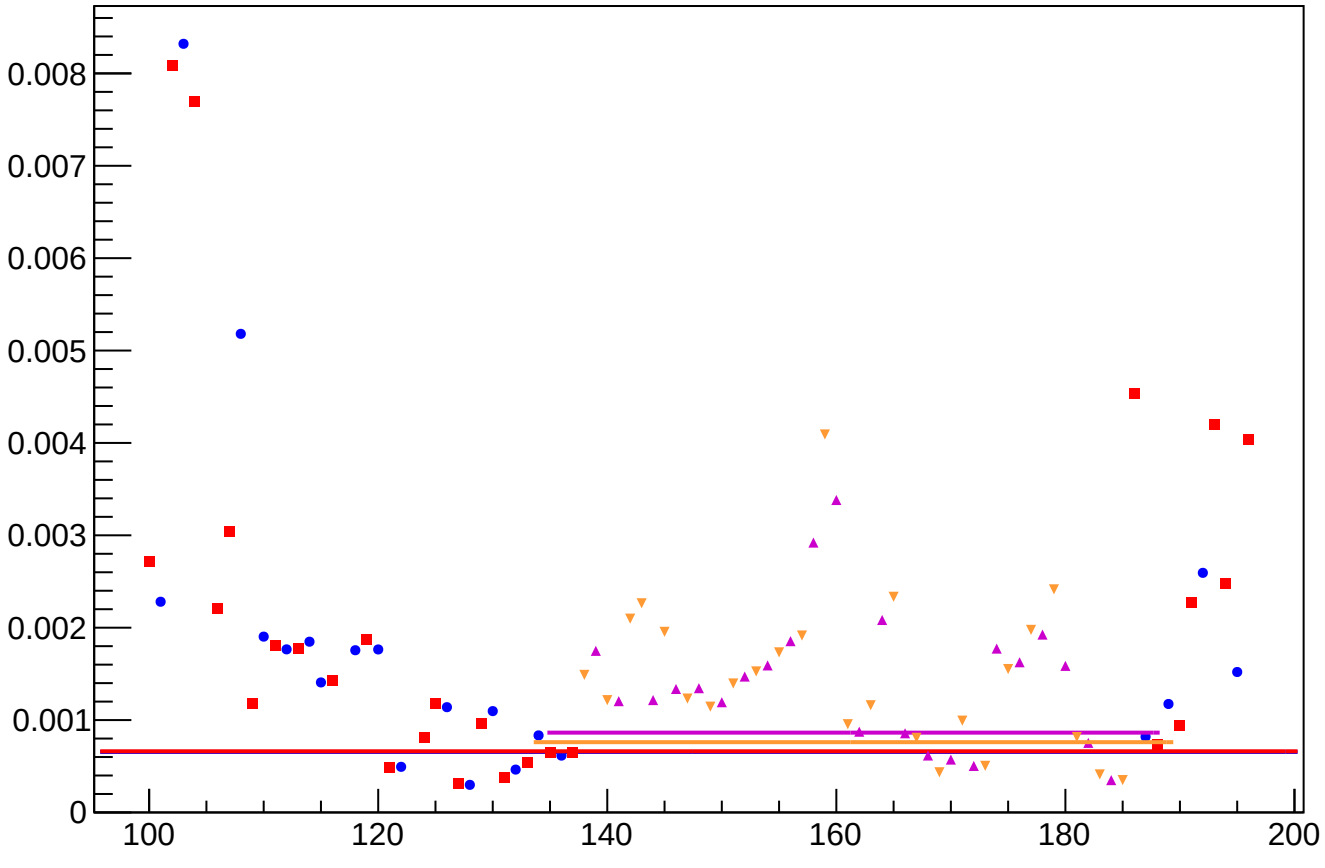
Left: 0.000+/-0.000 $\chi^2$/NDF: 57.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 58.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:47.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:73.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 120.6/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7323785.0/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11085699.1/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9684943.1/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:8440059.8/22

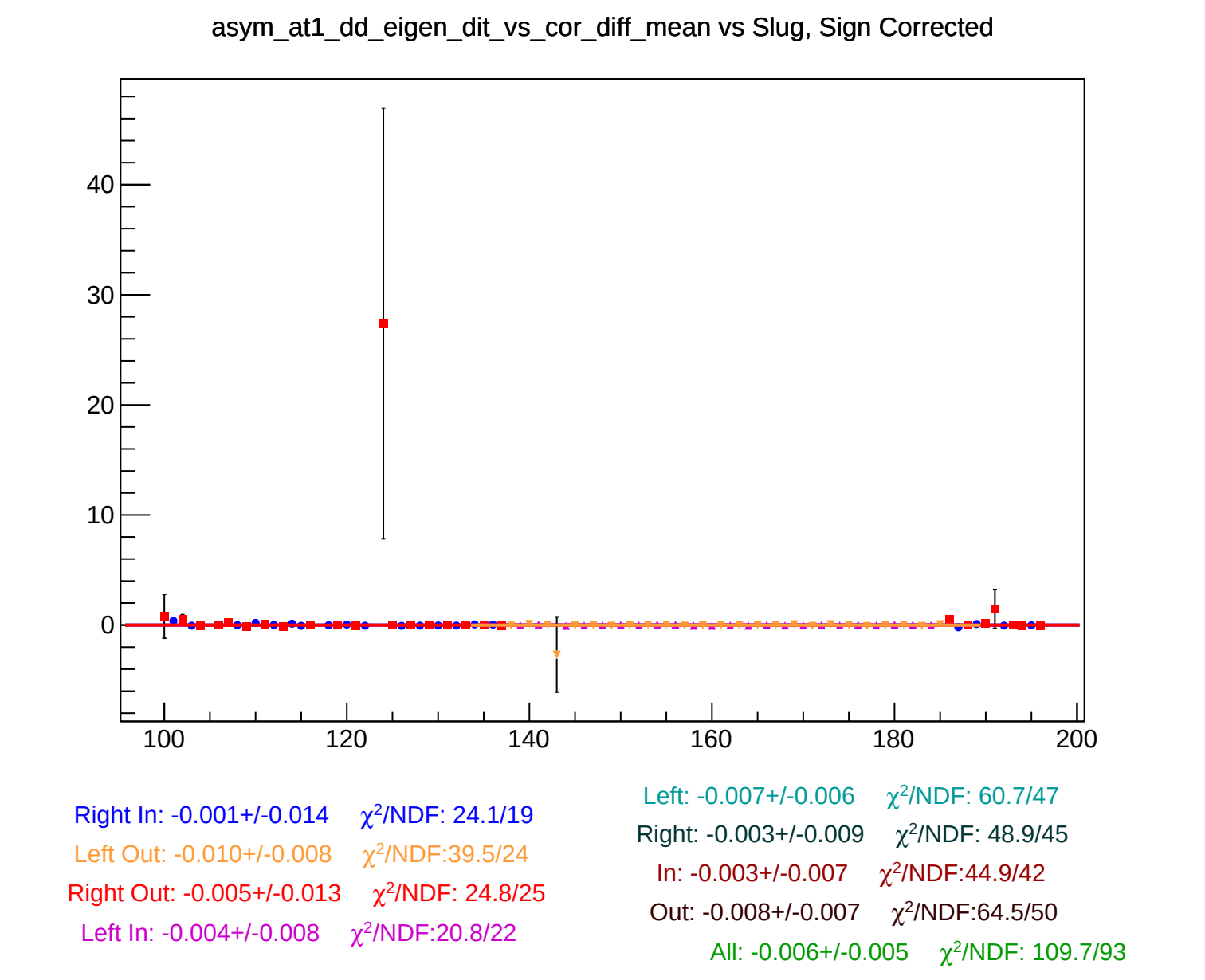
Left: 0.001+/-0.000 $\chi^2$/NDF: 19733433.3/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 17009387.5/45

In: 0.001+/-0.000 $\chi^2$/NDF:16405790.6/42

Out: 0.001+/-0.000 $\chi^2$/NDF:20943320.2/50

All: 0.001+/-0.000 $\chi^2$/NDF: 37447327.1/93


asym_at1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
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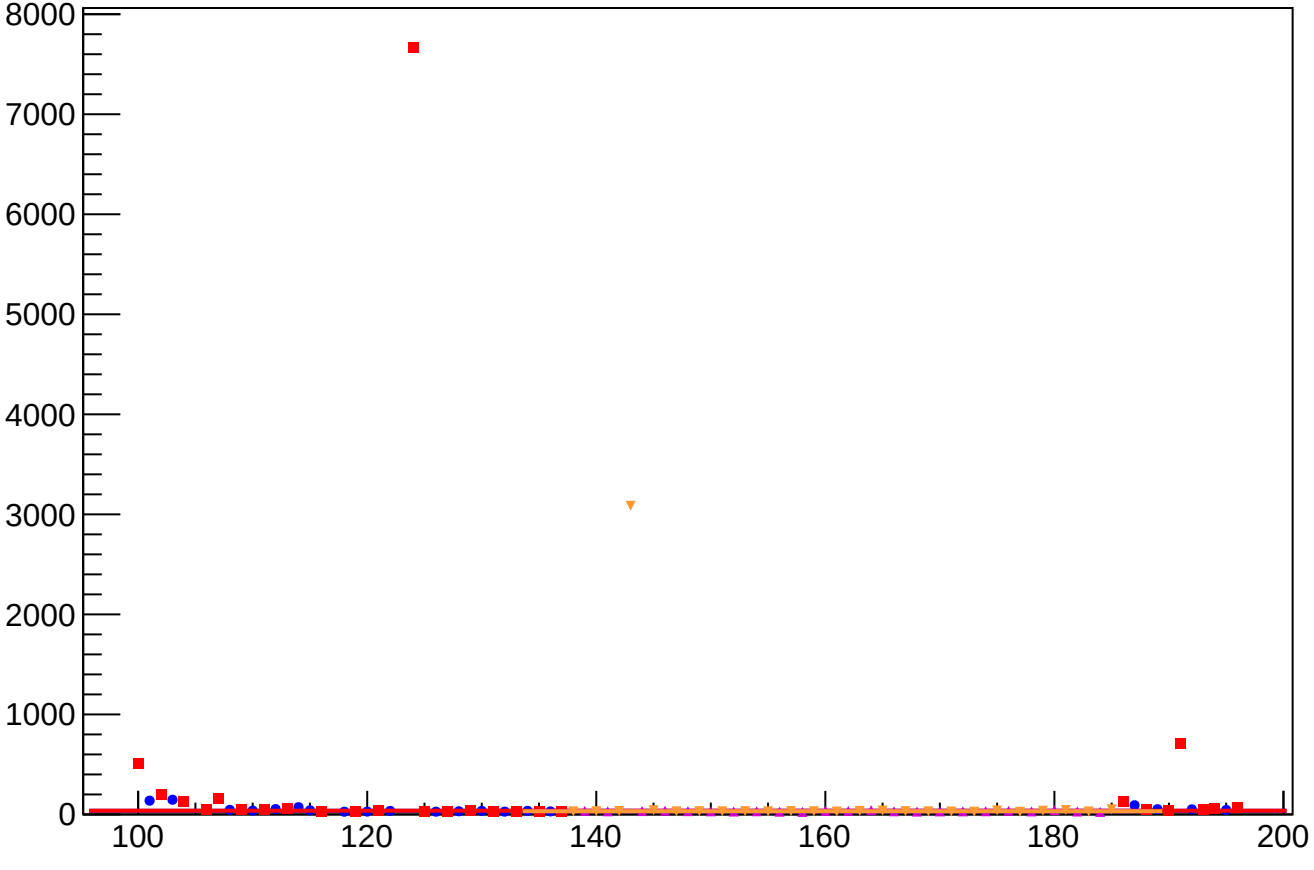
Right In: -0.001+/-0.014 χ²/NDF: 24.1/19
Left Out: -0.010+/-0.008 χ²/NDF:39.5/24
Right Out: -0.005+/-0.013 χ²/NDF: 24.8/25
Left In: -0.004+/-0.008 χ²/NDF:20.8/22
Left: -0.007+/-0.006 χ²/NDF: 60.7/47
Right: -0.003+/-0.009 χ²/NDF: 48.9/45
In: -0.003+/-0.007 χ²/NDF:44.9/42
Out: -0.008+/-0.007 χ²/NDF:64.5/50
All: -0.006+/-0.005 χ²/NDF: 109.7/93

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.430+/-0.010 $\chi^2$/NDF: 2157281.6/19

Left Out: 32.277+/-0.006 $\chi^2$/NDF:2120971.9/24

Right Out: 37.397+/-0.009 $\chi^2$/NDF: 3584131.5/25

Left In: 32.422+/-0.006 $\chi^2$/NDF:426001.5/22

Left: 32.349+/-0.004 $\chi^2$/NDF: 2547279.1/47

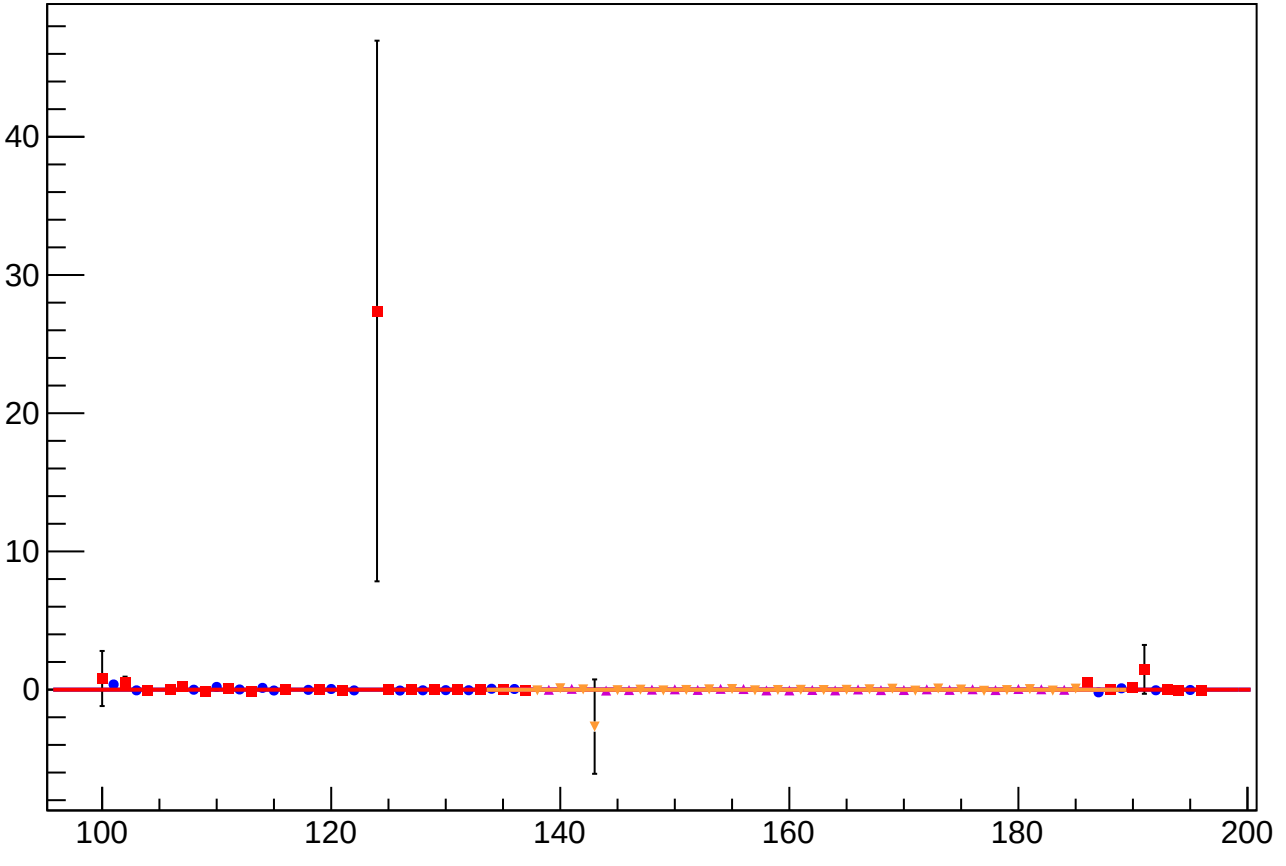
Right: 36.928+/-0.007 $\chi^2$/NDF: 5746611.3/45

In: 33.507+/-0.005 $\chi^2$/NDF:2709971.6/42

Out: 33.710+/-0.005 $\chi^2$/NDF:5921540.2/50

All: 33.610+/-0.004 $\chi^2$/NDF: 8632342.3/93

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.014 $\chi^2$/NDF: 24.1/19

Left Out: -0.010+/-0.008 $\chi^2$/NDF:39.5/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 24.8/25

Left In: -0.004+/-0.008 $\chi^2$/NDF:20.8/22

Left: -0.007+/-0.006 $\chi^2$/NDF: 60.7/47

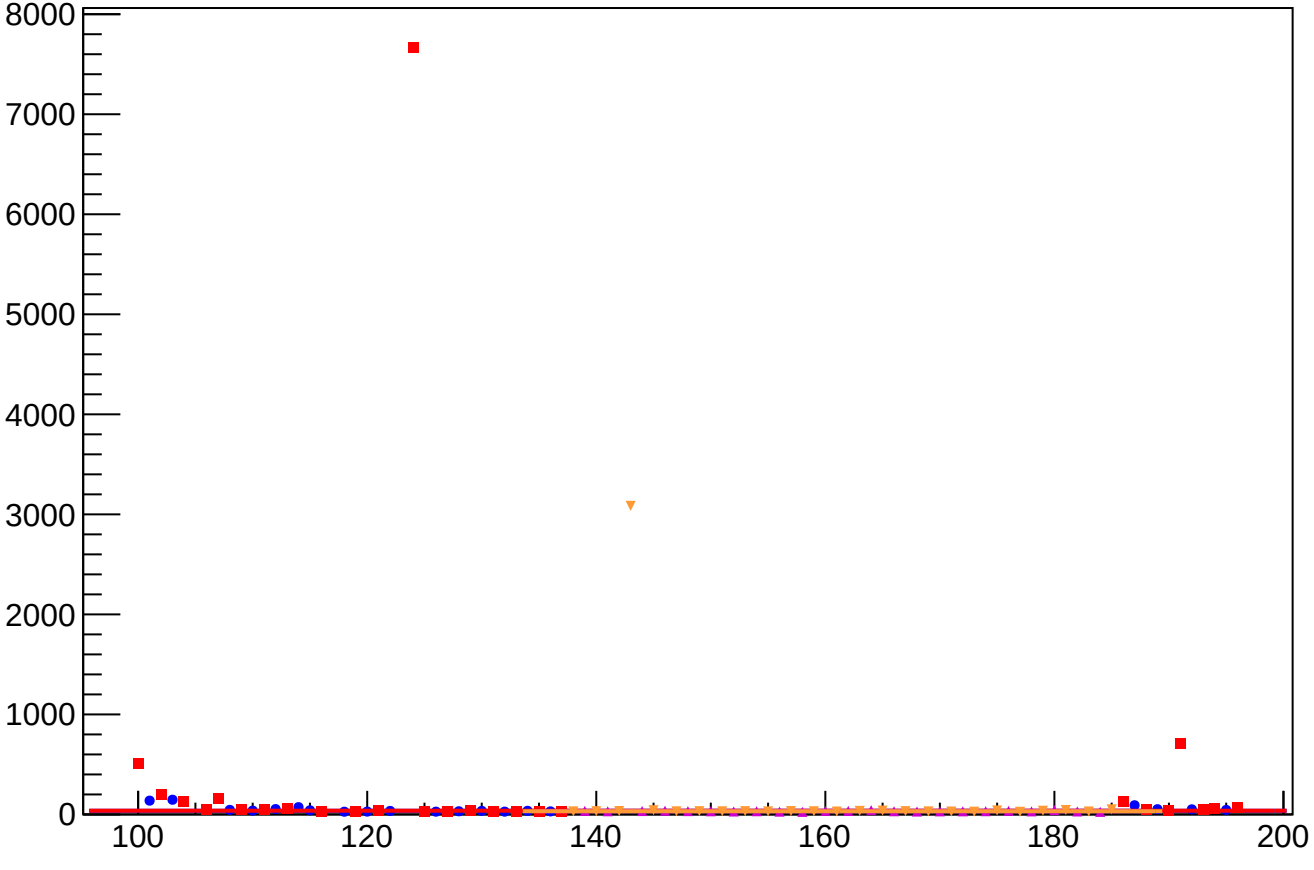
Right: -0.003+/-0.009 $\chi^2$/NDF: 48.9/45

In: -0.003+/-0.007 $\chi^2$/NDF:44.9/42

Out: -0.008+/-0.007 $\chi^2$/NDF:64.5/50

All: -0.006+/-0.005 $\chi^2$/NDF: 109.7/93

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.430+/-0.010 $\chi^2$/NDF: 2157281.6/19

Left Out: 32.277+/-0.006 $\chi^2$/NDF:2120971.9/24

Right Out: 37.397+/-0.009 $\chi^2$/NDF: 3584131.5/25

Left In: 32.422+/-0.006 $\chi^2$/NDF:426001.5/22

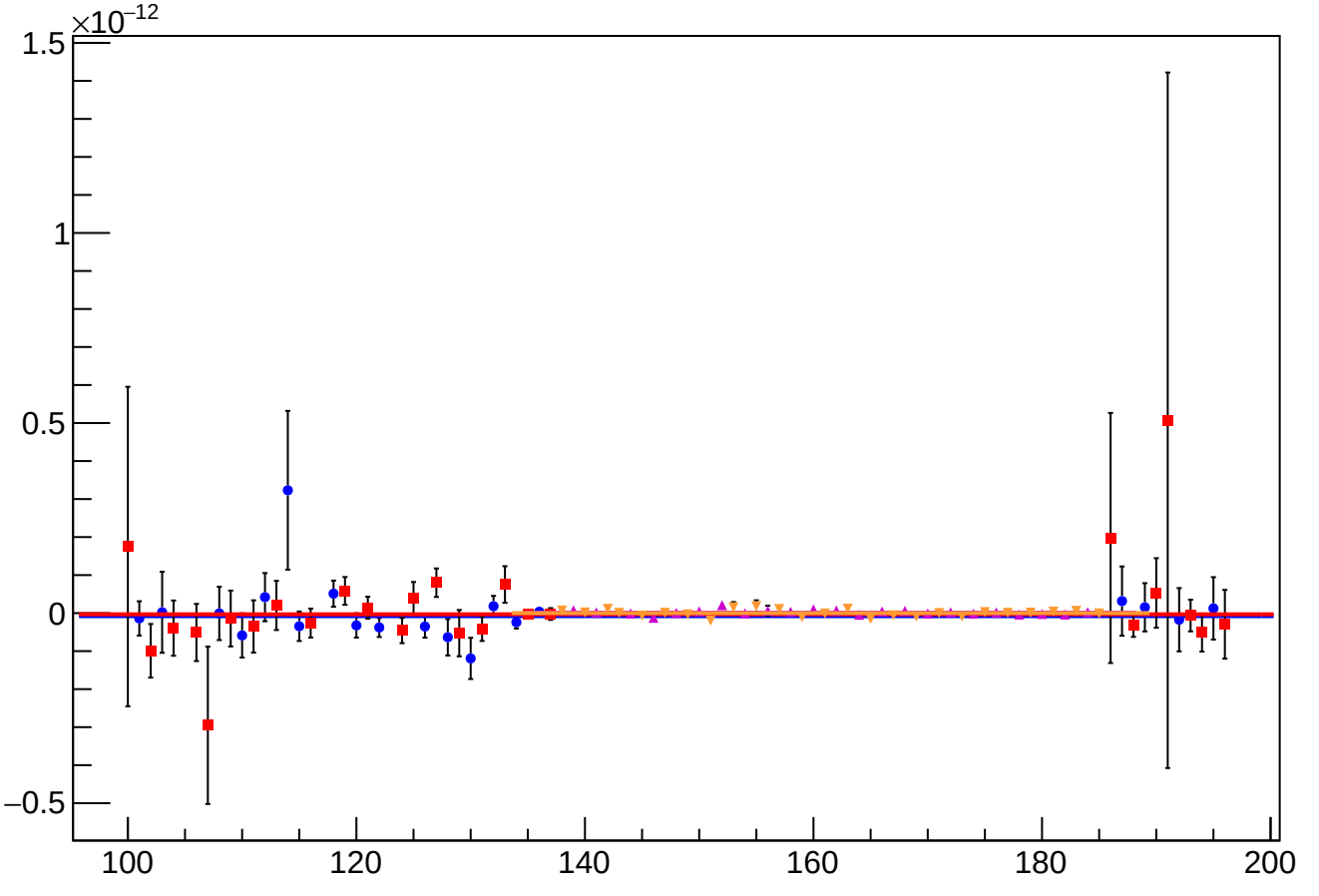
Left: 32.349+/-0.004 $\chi^2$/NDF: 2547279.1/47

Right: 36.928+/-0.007 $\chi^2$/NDF: 5746611.3/45

In: 33.507+/-0.005 $\chi^2$/NDF:2709971.6/42

Out: 33.710+/-0.005 $\chi^2$/NDF:5921540.2/50

All: 33.610+/-0.004 $\chi^2$/NDF: 8632342.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:9.2/22

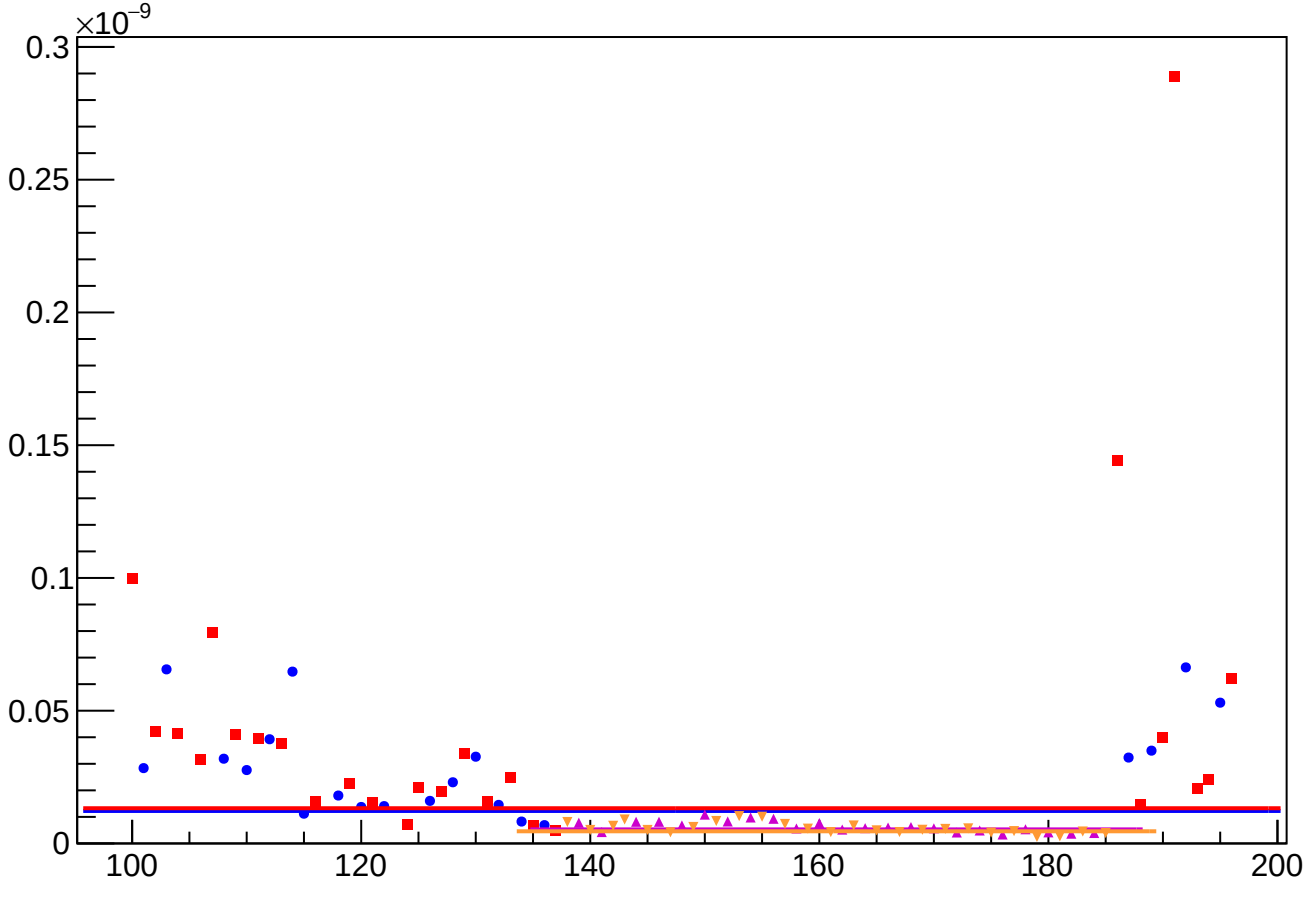
Left: 0.000+/-0.000 $\chi^2$/NDF: 30.5/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:30.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:45.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 76.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4545822.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2796753.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5217631.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2230717.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5240558.3/47

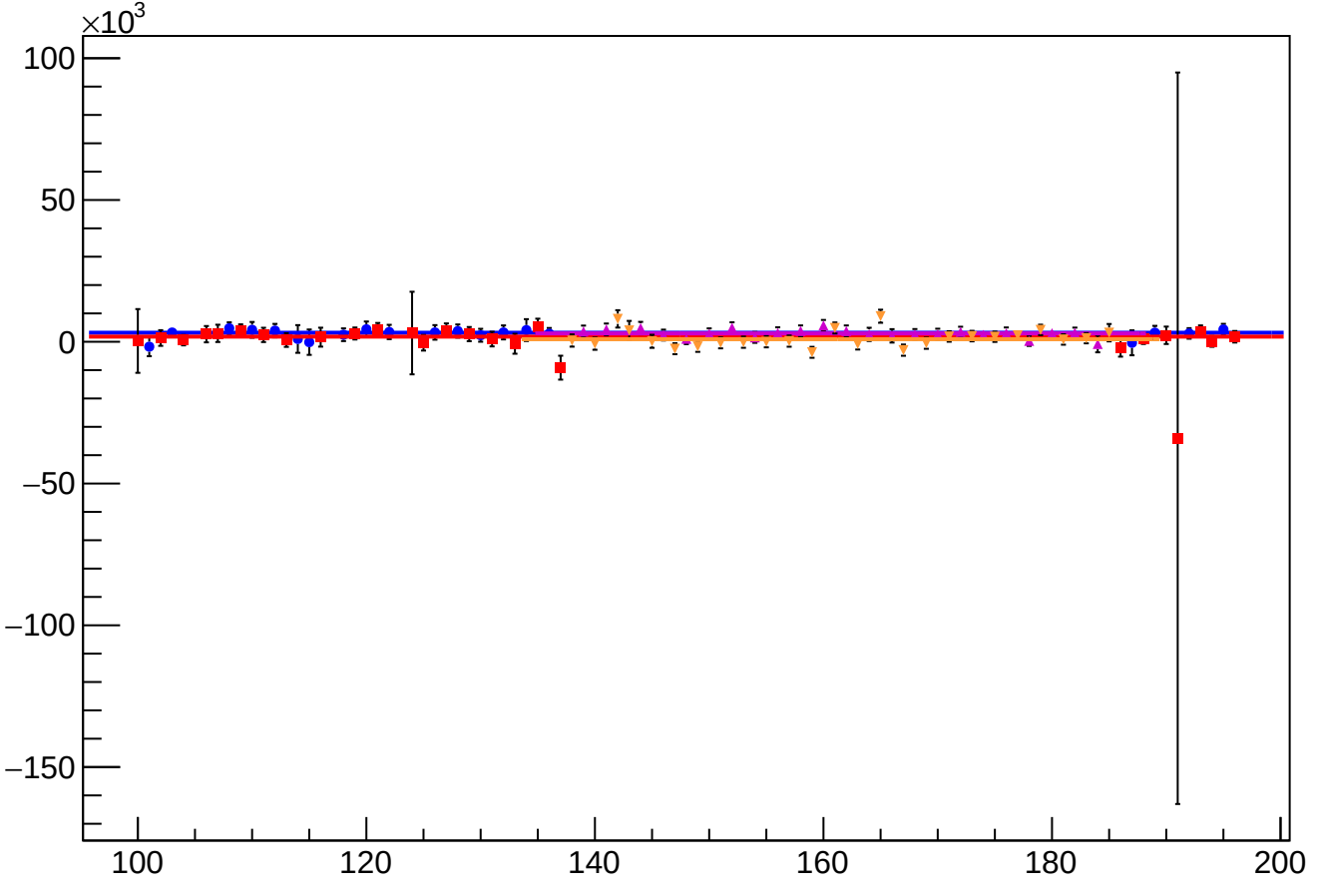
Right: 0.000+/-0.000 $\chi^2$/NDF: 9787580.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:9044730.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11096396.5/50

All: 0.000+/-0.000 $\chi^2$/NDF: 20406146.7/93

# reg_asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 3190.549+/-550.361 $\chi^2$/NDF: 5.3/19

Left Out: 898.921+/-405.540 $\chi^2$/NDF:45.3/24

Right Out: 1811.728+/-512.150 $\chi^2$/NDF: 17.9/25

Left In: 2943.285+/-412.069 $\chi^2$/NDF:10.6/22

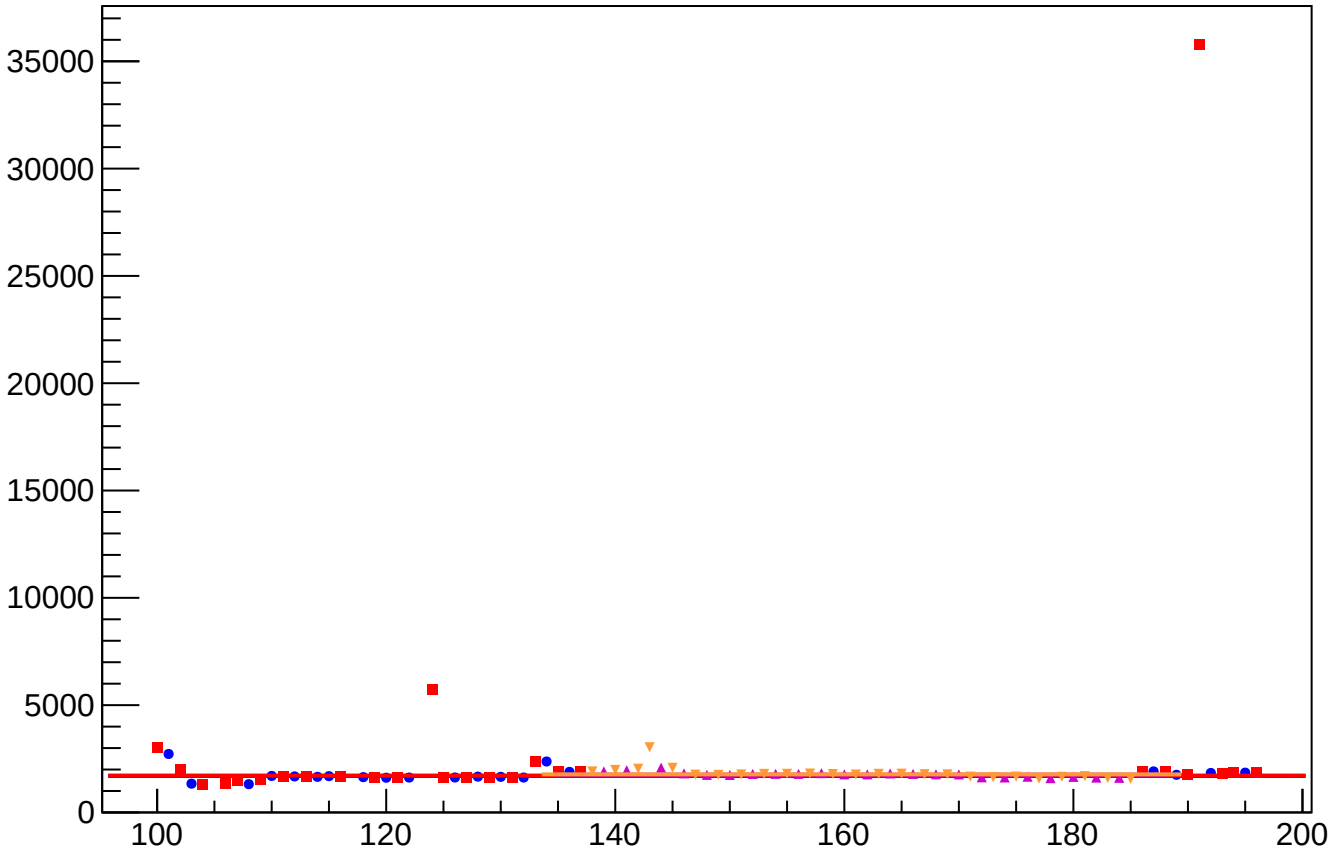
Left: 1904.780+/-289.041 $\chi^2$/NDF: 68.3/47

Right: 2451.617+/-374.926 $\chi^2$/NDF: 26.5/45

In: 3032.107+/-329.857 $\chi^2$/NDF:16.0/42

Out: 1250.695+/-317.936 $\chi^2$/NDF:65.1/50

All: 2108.628+/-228.913 $\chi^2$/NDF: 96.2/93




Right In: 1701.747+/-0.389 $\chi^2$/NDF: 451676.6/19

Left Out: 1774.731+/-0.287 $\chi^2$/NDF:446895.8/24

Right Out: 1716.757+/-0.362 $\chi^2$/NDF: 653143.5/25

Left In: 1761.089+/-0.291 $\chi^2$/NDF:146266.6/22

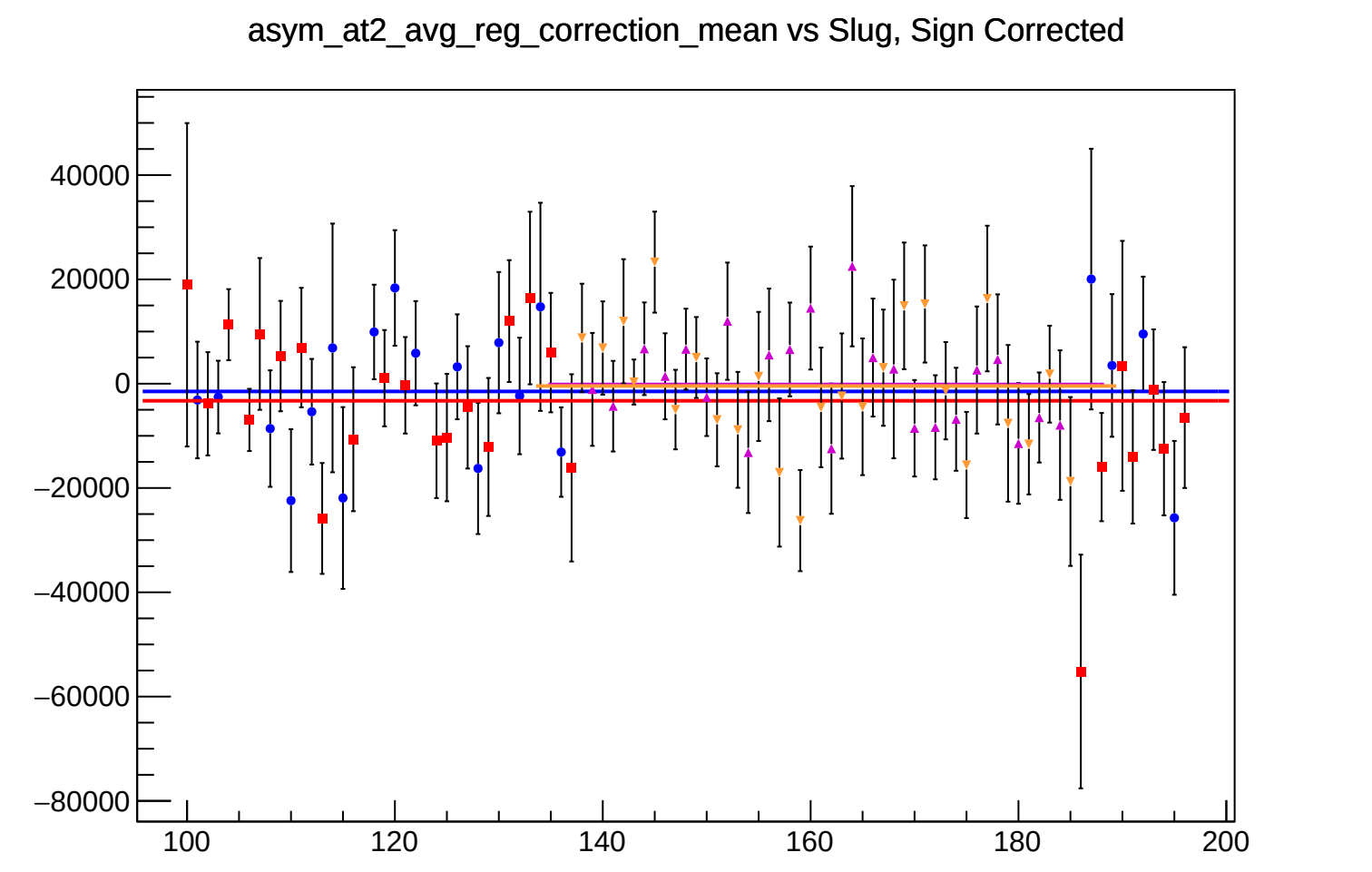
Left: 1768.019+/-0.204 $\chi^2$/NDF: 594275.9/47

Right: 1709.791+/-0.265 $\chi^2$/NDF: 1105617.3/45

In: 1739.772+/-0.233 $\chi^2$/NDF:612842.2/42

Out: 1752.389+/-0.225 $\chi^2$/NDF:1115790.4/50

All: 1746.313+/-0.162 $\chi^2$/NDF: 1730149.4/93




Right In: -1484.405+/-2559.482 $\chi^2$/NDF: 18.9/19

Left Out: -443.346+/-1925.604 $\chi^2$/NDF:29.5/24

Right Out: -3277.948+/-2194.775 $\chi^2$/NDF: 26.7/25

Left In: -155.268+/-2143.489 $\chi^2$/NDF:13.8/22

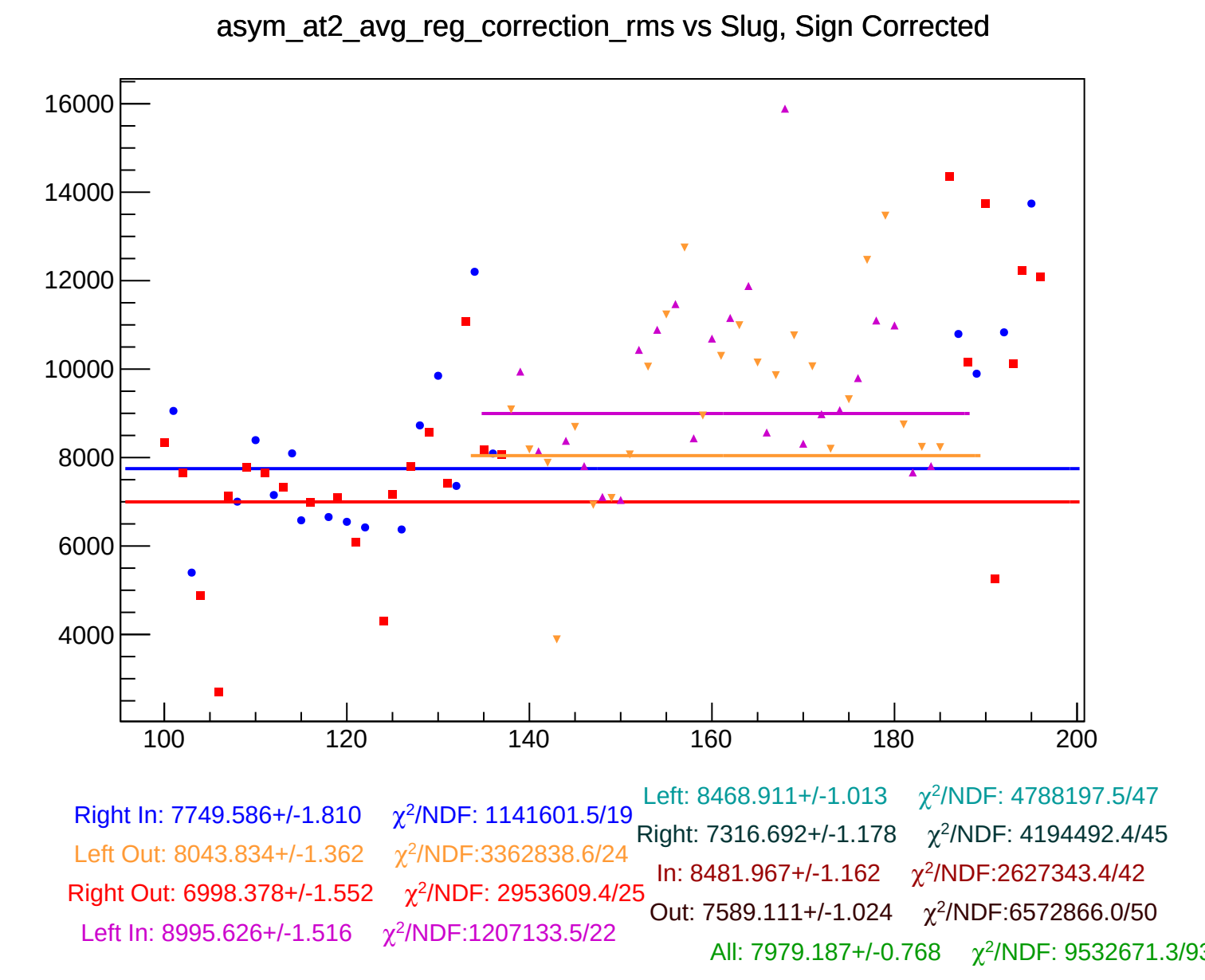
Left: -314.688+/-1432.465 $\chi^2$/NDF: 43.3/47

Right: -2517.957+/-1666.097 $\chi^2$/NDF: 45.9/45

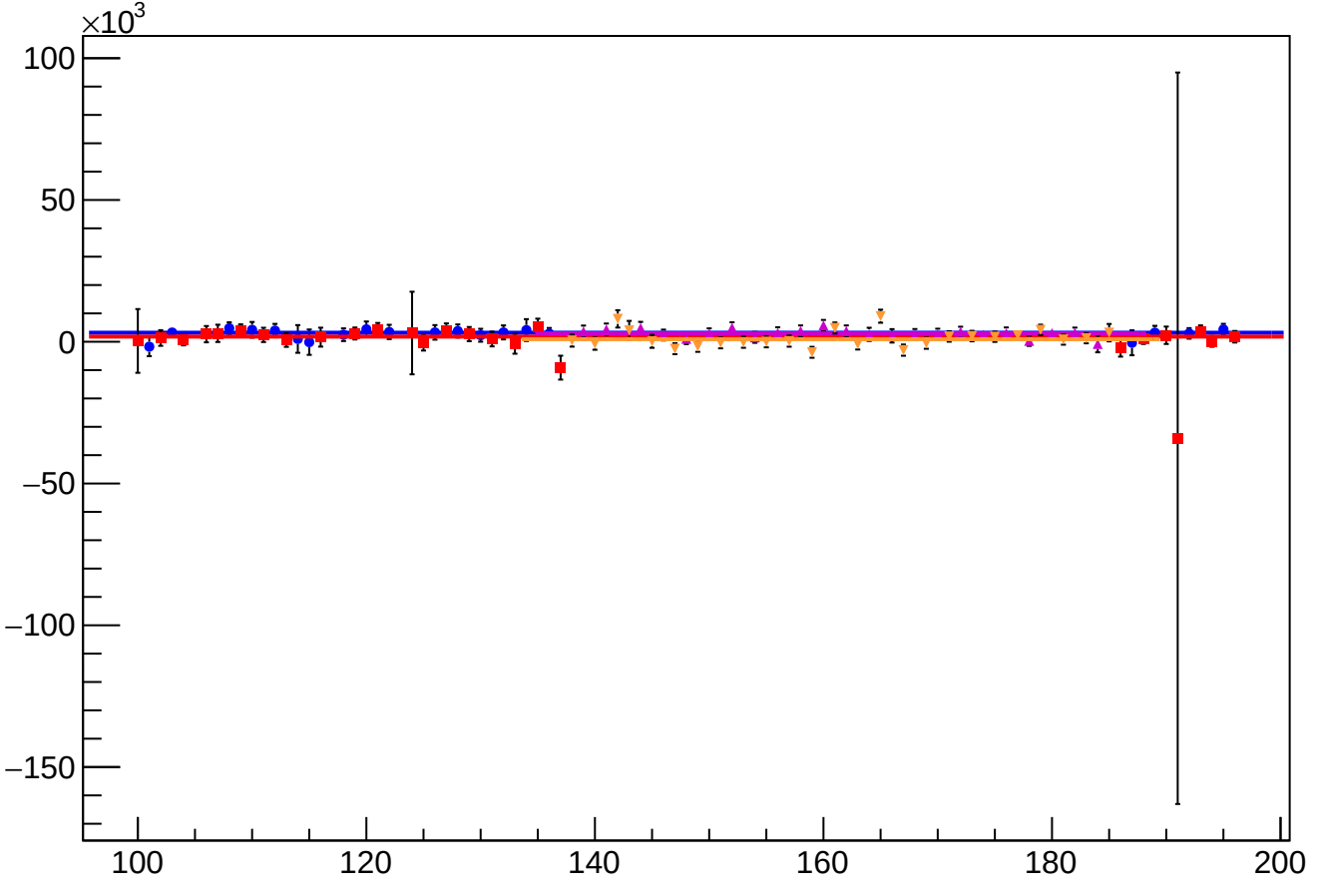
In: -703.183+/-1643.326 $\chi^2$/NDF:32.9/42

Out: -1676.259+/-1447.472 $\chi^2$/NDF:57.1/50

All: -1251.135+/-1086.196 $\chi^2$/NDF: 90.1/93


asym_at2_avg_reg_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
120
140
160
180
200
Right In: 7749.586+/-1.810 χ²/NDF: 1141601.5/19
Left Out: 8043.834+/-1.362 χ²/NDF:3362838.6/24
Right Out: 6998.378+/-1.552 χ²/NDF: 2953609.4/25
Left In: 8995.626+/-1.516 χ²/NDF:1207133.5/22
Left: 8468.911+/-1.013 χ²/NDF: 4788197.5/47
Right: 7316.692+/-1.178 χ²/NDF: 4194492.4/45
In: 8481.967+/-1.162 χ²/NDF:2627343.4/42
Out: 7589.111+/-1.024 χ²/NDF:6572866.0/50
All: 7979.187+/-0.768 χ²/NDF: 9532671.3/93

# cor_asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 3190.641+/-550.361 $\chi^2$/NDF: 5.3/19

Left Out: 898.842+/-405.540 $\chi^2$/NDF:45.3/24

Right Out: 1811.604+/-512.150 $\chi^2$/NDF: 17.8/25

Left In: 2943.173+/-412.069 $\chi^2$/NDF:10.6/22

Left: 1904.684+/-289.041 $\chi^2$/NDF: 68.3/47

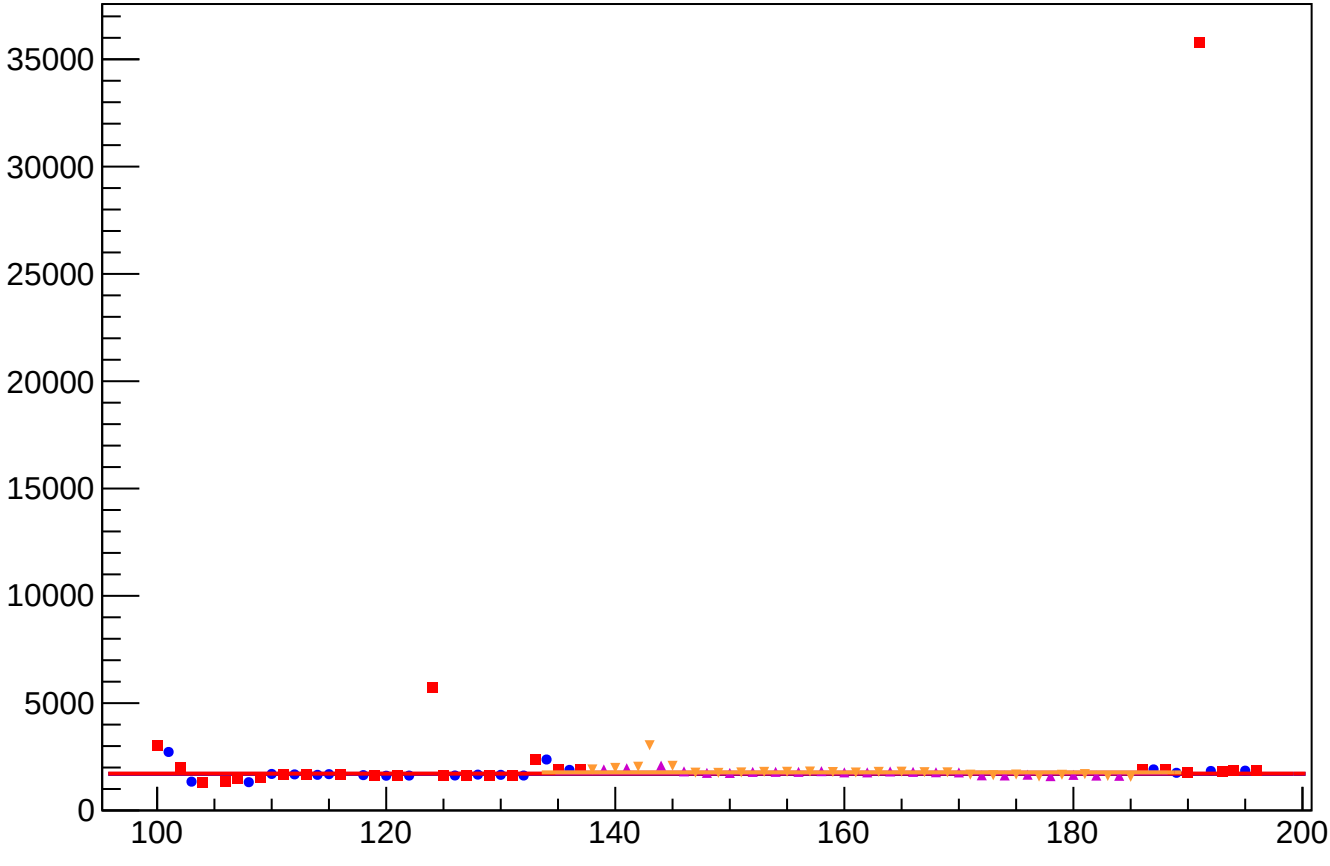
Right: 2451.593+/-374.926 $\chi^2$/NDF: 26.5/45

In: 3032.068+/-329.857 $\chi^2$/NDF:16.0/42

Out: 1250.598+/-317.936 $\chi^2$/NDF:65.1/50

All: 2108.559+/-228.913 $\chi^2$/NDF: 96.2/93

# cor_asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 1701.747+/-0.389 $\chi^2$/NDF: 451677.0/19

Left Out: 1774.731+/-0.287 $\chi^2$/NDF:446895.7/24

Right Out: 1716.757+/-0.362 $\chi^2$/NDF: 653143.7/25

Left In: 1761.089+/-0.291 $\chi^2$/NDF:146266.6/22

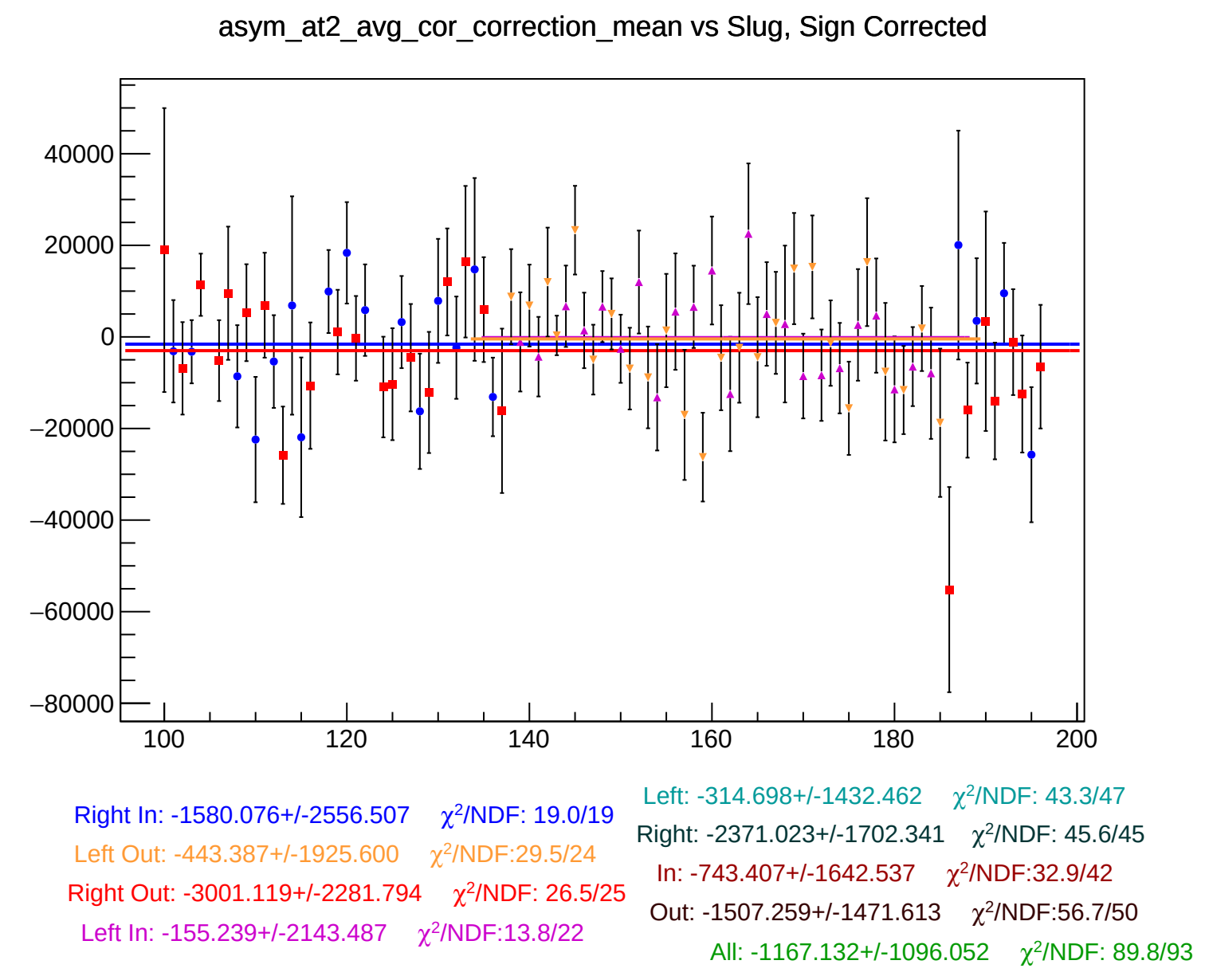
Left: 1768.019+/-0.204 $\chi^2$/NDF: 594275.8/47

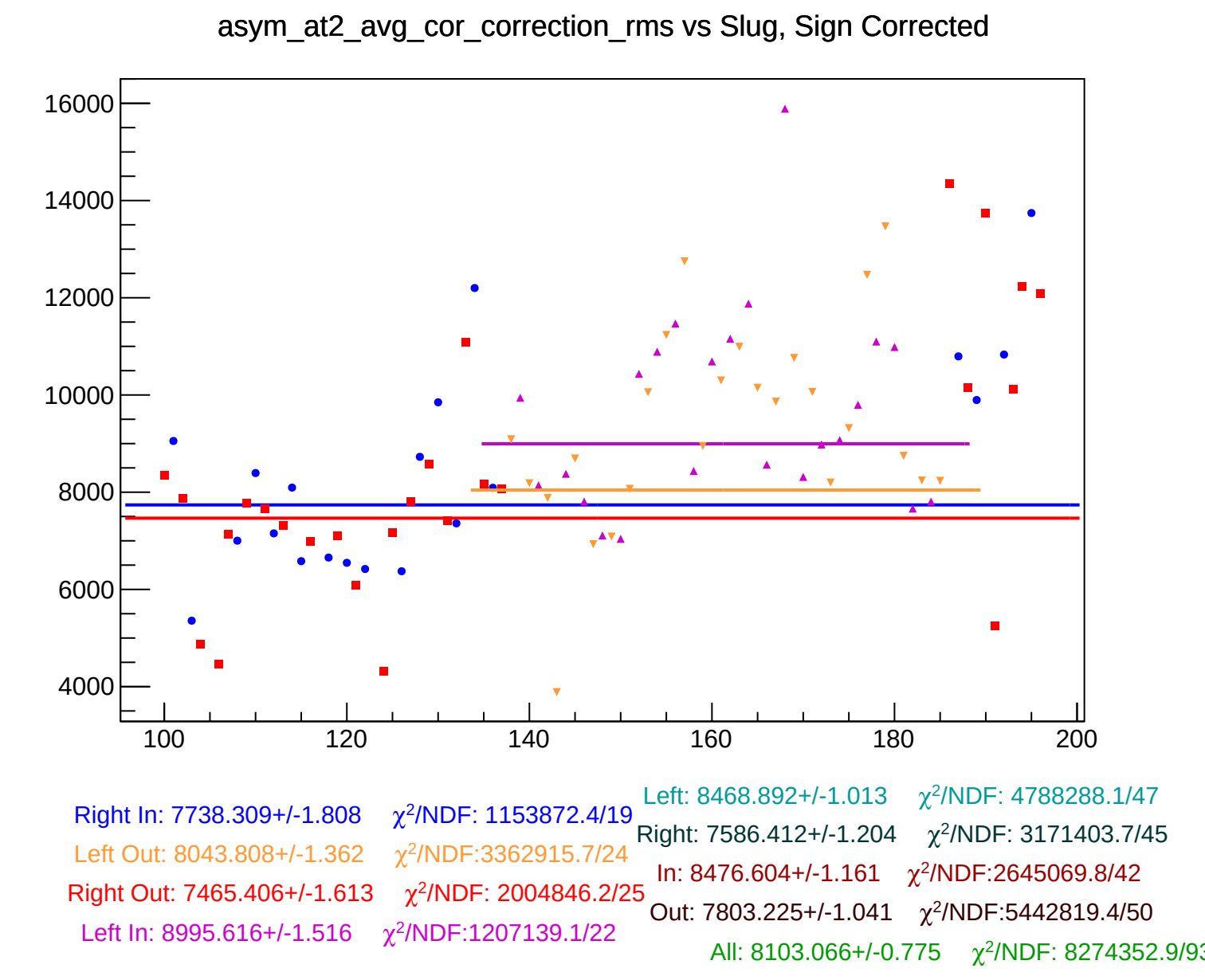
Right: 1709.791+/-0.265 $\chi^2$/NDF: 1105617.8/45

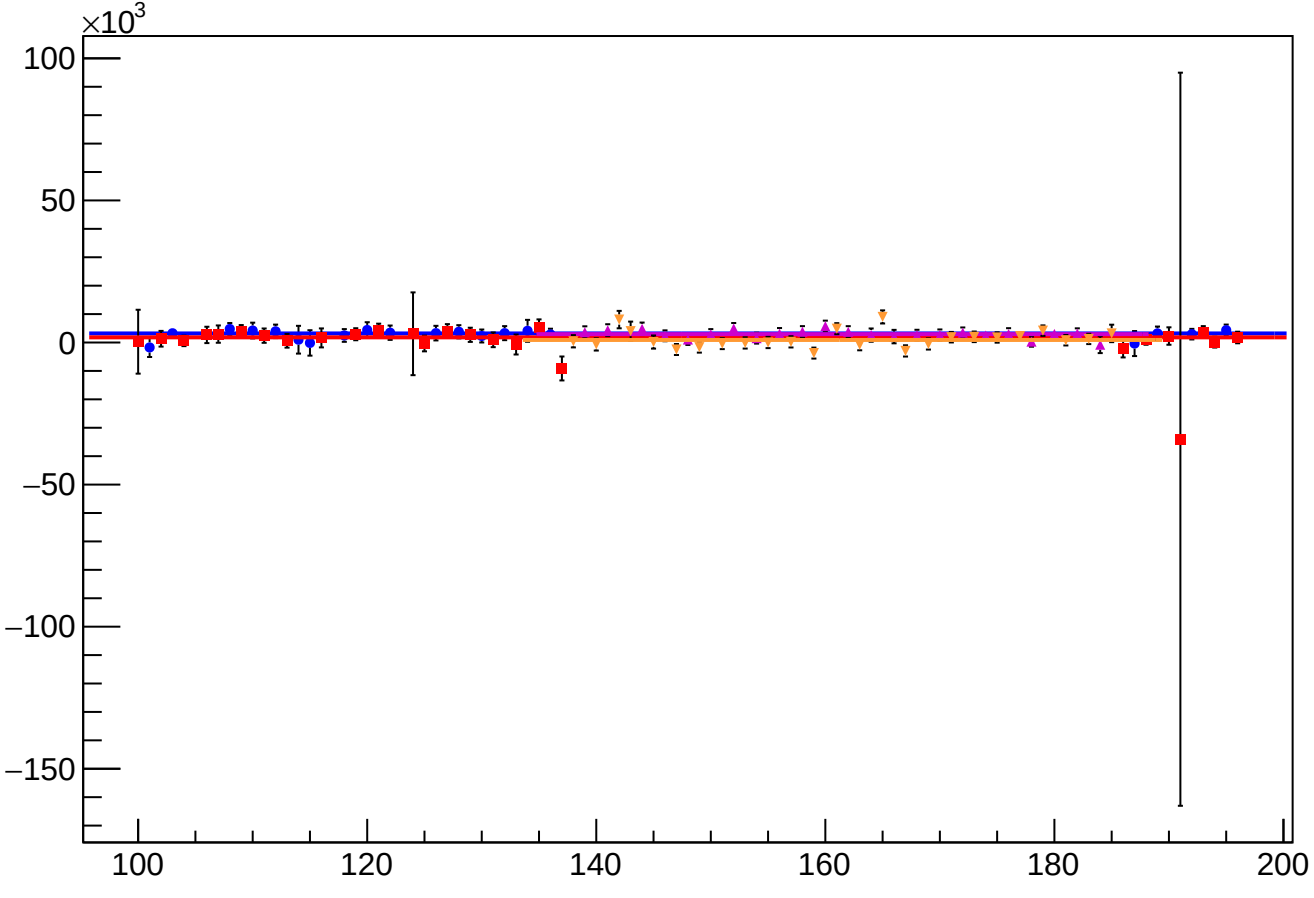
In: 1739.772+/-0.233 $\chi^2$/NDF:612842.6/42

Out: 1752.389+/-0.225 $\chi^2$/NDF:1115790.6/50

All: 1746.313+/-0.162 $\chi^2$/NDF: 1730150.0/93


asym_at2_avg_cor_correction_mean vs Slug, Sign Corrected
40000
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -1580.076+/-2556.507 χ²/NDF: 19.0/19
Left Out: -443.387+/-1925.600 χ²/NDF:29.5/24
Right Out: -3001.119+/-2281.794 χ²/NDF: 26.5/25
Left In: -155.239+/-2143.487 χ²/NDF:13.8/22
Left: -314.698+/-1432.462 χ²/NDF: 43.3/47
Right: -2371.023+/-1702.341 χ²/NDF: 45.6/45
In: -743.407+/-1642.537 χ²/NDF:32.9/42
Out: -1507.259+/-1471.613 χ²/NDF:56.7/50
All: -1167.132+/-1096.052 χ²/NDF: 89.8/93


asym_at2_avg_cor_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
120
140
160
180
200
Right In: 7738.309+/-1.808 χ²/NDF: 1153872.4/19
Left Out: 8043.808+/-1.362 χ²/NDF:3362915.7/24
Right Out: 7465.406+/-1.613 χ²/NDF: 2004846.2/25
Left In: 8995.616+/-1.516 χ²/NDF:1207139.1/22
Left: 8468.892+/-1.013 χ²/NDF: 4788288.1/47
Right: 7586.412+/-1.204 χ²/NDF: 3171403.7/45
In: 8476.604+/-1.161 χ²/NDF:2645069.8/42
Out: 7803.225+/-1.041 χ²/NDF:5442819.4/50
All: 8103.066+/-0.775 χ²/NDF: 8274352.9/93




Right In: 3190.641+/-550.361 $\chi^2$/NDF: 5.3/19

Left Out: 898.842+/-405.540 $\chi^2$/NDF:45.3/24

Right Out: 1811.604+/-512.150 $\chi^2$/NDF: 17.8/25

Left In: 2943.173+/-412.069 $\chi^2$/NDF:10.6/22

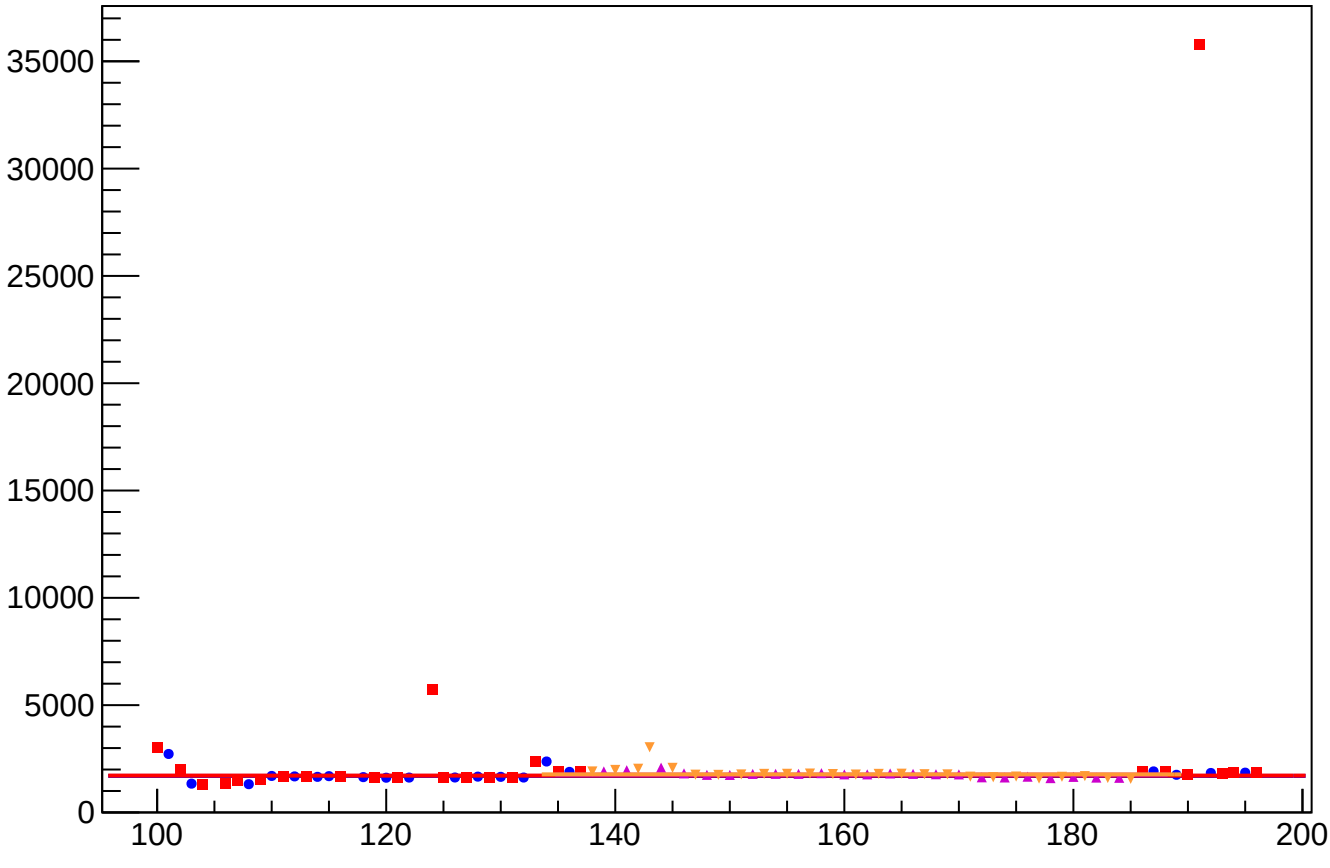
Left: 1904.684+/-289.041 $\chi^2$/NDF: 68.3/47

Right: 2451.593+/-374.926 $\chi^2$/NDF: 26.5/45

In: 3032.068+/-329.857 $\chi^2$/NDF:16.0/42

Out: 1250.598+/-317.936 $\chi^2$/NDF:65.1/50

All: 2108.559+/-228.913 $\chi^2$/NDF: 96.2/93




Right In: 1701.747+/-0.389 $\chi^2$/NDF: 451677.0/19

Left Out: 1774.731+/-0.287 $\chi^2$/NDF:446895.7/24

Right Out: 1716.757+/-0.362 $\chi^2$/NDF: 653143.7/25

Left In: 1761.089+/-0.291 $\chi^2$/NDF:146266.6/22

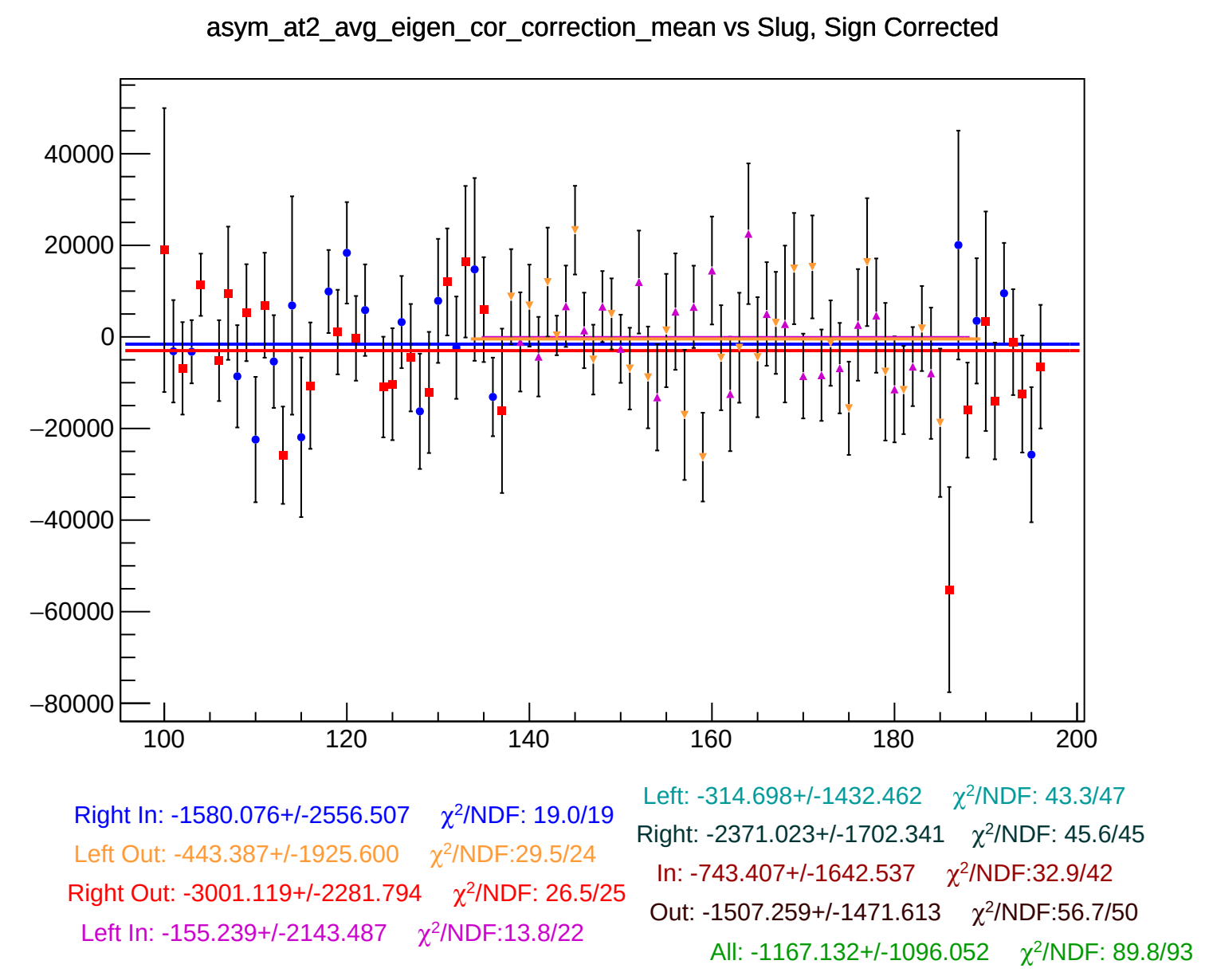
Left: 1768.019+/-0.204 $\chi^2$/NDF: 594275.8/47

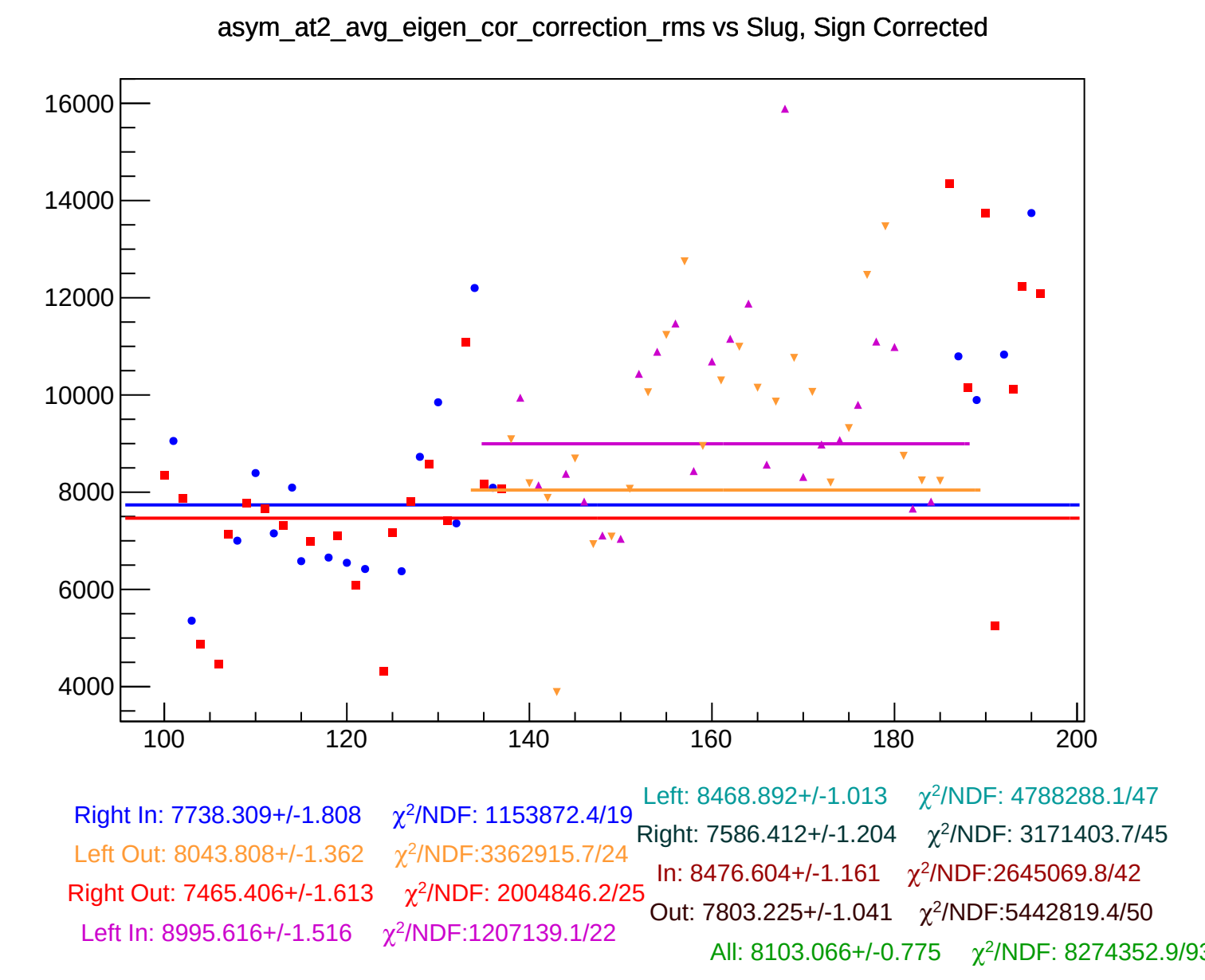
Right: 1709.791+/-0.265 $\chi^2$/NDF: 1105617.8/45

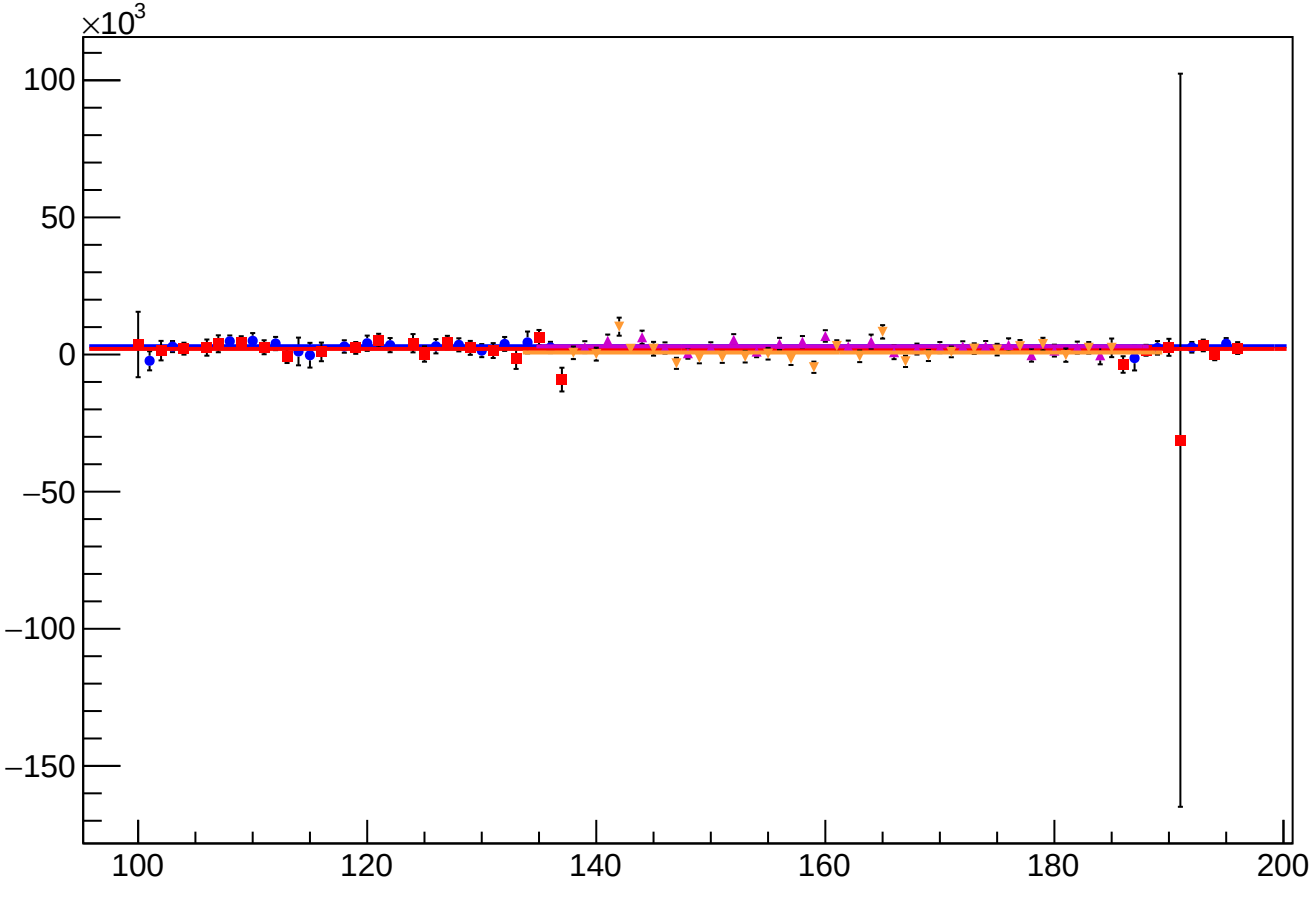
In: 1739.772+/-0.233 $\chi^2$/NDF:612842.6/42

Out: 1752.389+/-0.225 $\chi^2$/NDF:1115790.6/50

All: 1746.313+/-0.162 $\chi^2$/NDF: 1730150.0/93


asym_at2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -1580.076+/-2556.507 χ²/NDF: 19.0/19
Left Out: -443.387+/-1925.600 χ²/NDF:29.5/24
Right Out: -3001.119+/-2281.794 χ²/NDF: 26.5/25
Left In: -155.239+/-2143.487 χ²/NDF:13.8/22
Left: -314.698+/-1432.462 χ²/NDF: 43.3/47
Right: -2371.023+/-1702.341 χ²/NDF: 45.6/45
In: -743.407+/-1642.537 χ²/NDF:32.9/42
Out: -1507.259+/-1471.613 χ²/NDF:56.7/50
All: -1167.132+/-1096.052 χ²/NDF: 89.8/93


asym_at2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
16000
14000
12000
10000
8000
6000
4000
100
120
140
160
180
200
Right In: 7738.309+/-1.808 χ²/NDF: 1153872.4/19
Left Out: 8043.808+/-1.362 χ²/NDF:3362915.7/24
Right Out: 7465.406+/-1.613 χ²/NDF: 2004846.2/25
Left In: 8995.616+/-1.516 χ²/NDF:1207139.1/22
Left: 8468.892+/-1.013 χ²/NDF: 4788288.1/47
Right: 7586.412+/-1.204 χ²/NDF: 3171403.7/45
In: 8476.604+/-1.161 χ²/NDF:2645069.8/42
Out: 7803.225+/-1.041 χ²/NDF:5442819.4/50
All: 8103.066+/-0.775 χ²/NDF: 8274352.9/93




Right In: 3035.338+/-570.271 $\chi^2$/NDF: 6.6/19

Left Out: 739.029+/-432.878 $\chi^2$/NDF:41.6/24

Right Out: 2048.473+/-526.306 $\chi^2$/NDF: 21.6/25

Left In: 2979.225+/-450.334 $\chi^2$/NDF:15.6/22

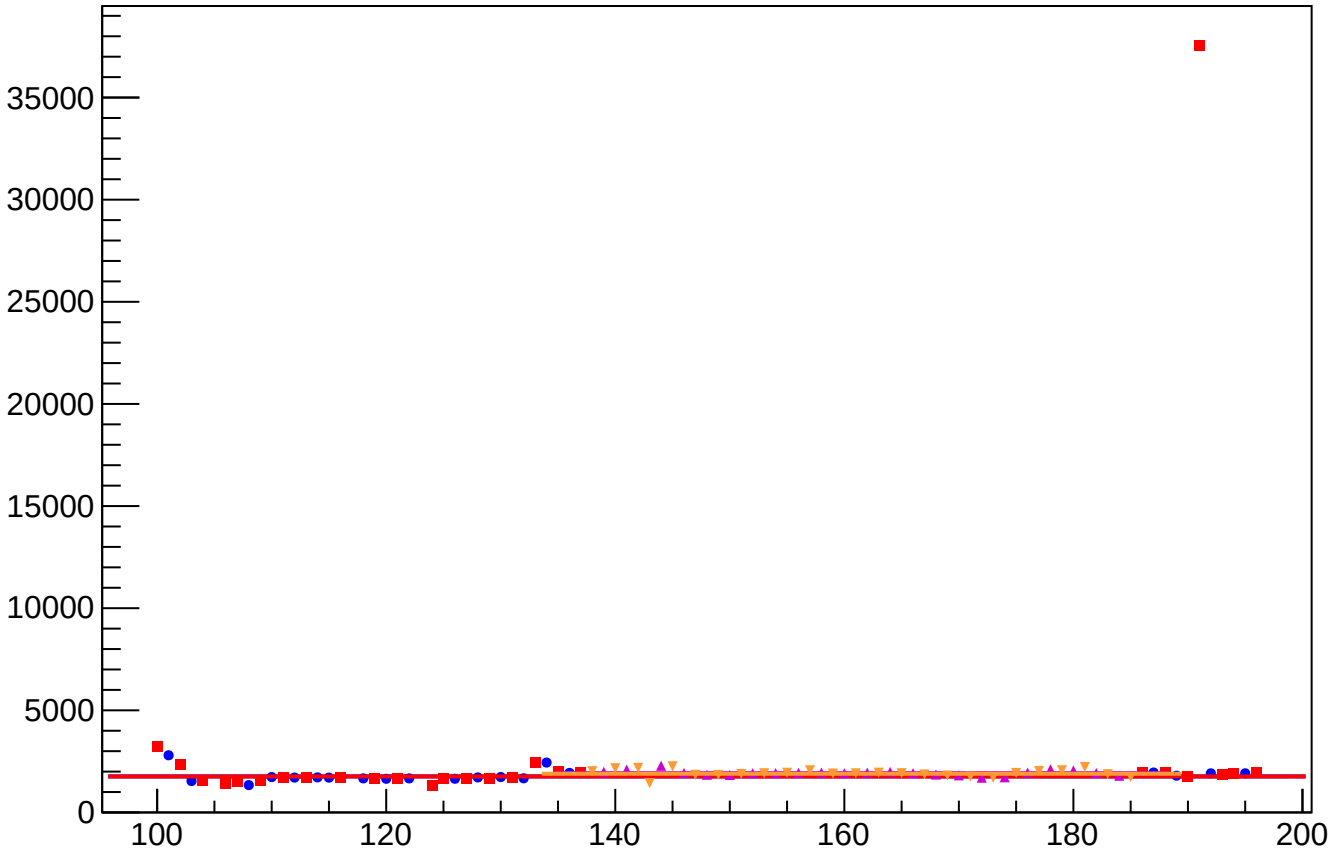
Left: 1814.868+/-312.080 $\chi^2$/NDF: 70.1/47

Right: 2502.403+/-386.765 $\chi^2$/NDF: 29.8/45

In: 3000.777+/-353.424 $\chi^2$/NDF:22.2/42

Out: 1267.405+/-334.323 $\chi^2$/NDF:66.9/50

All: 2085.989+/-242.874 $\chi^2$/NDF: 101.8/93




Right In: 1764.649+/-0.403 $\chi^2$/NDF: 399702.5/19

Left Out: 1894.684+/-0.306 $\chi^2$/NDF:368587.1/24

Right Out: 1762.595+/-0.372 $\chi^2$/NDF: 511265.0/25

Left In: 1923.038+/-0.318 $\chi^2$/NDF:150977.3/22

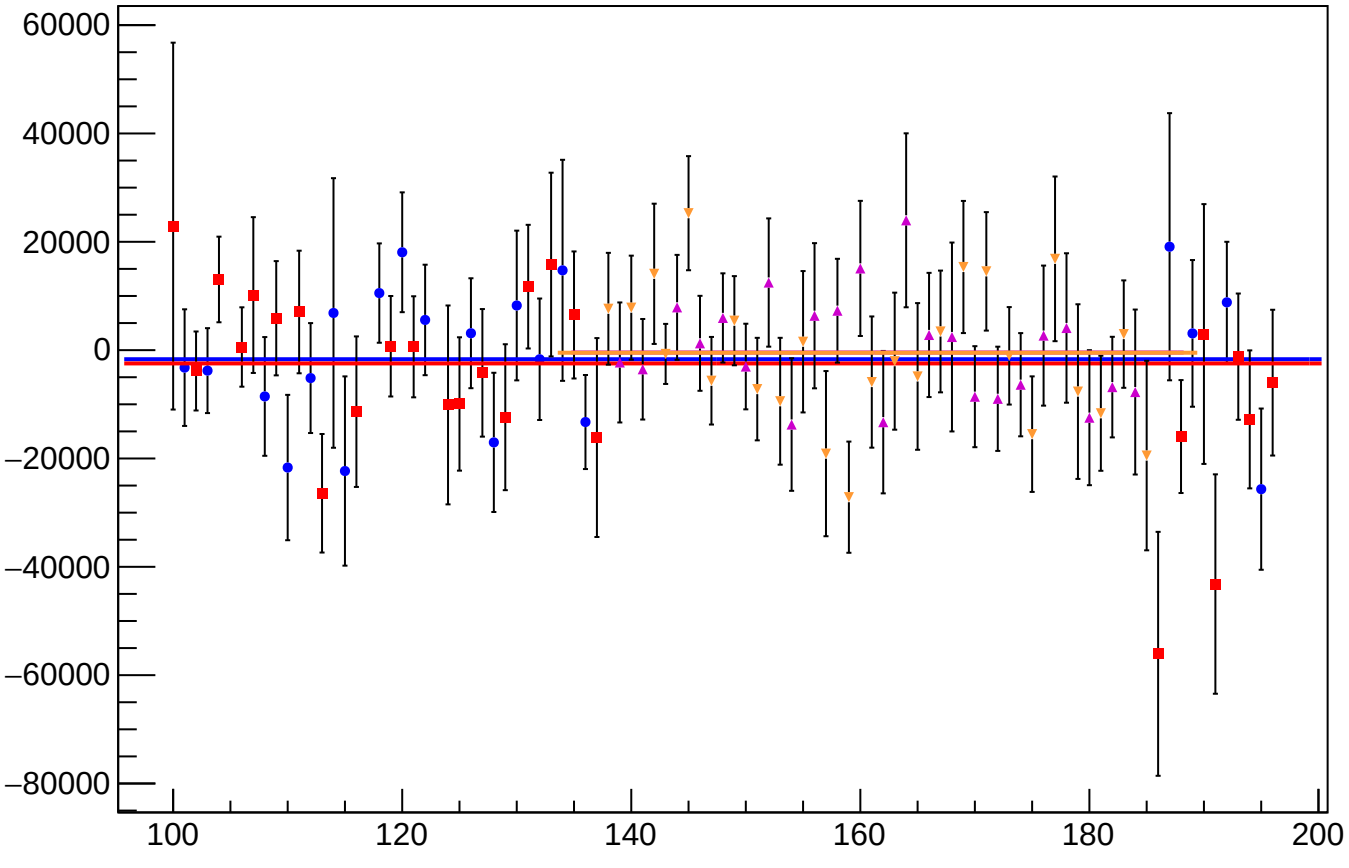
Left: 1908.301+/-0.221 $\chi^2$/NDF: 523685.2/47

Right: 1763.540+/-0.273 $\chi^2$/NDF: 910981.4/45

In: 1862.203+/-0.250 $\chi^2$/NDF:645705.5/42

Out: 1841.369+/-0.236 $\chi^2$/NDF:955017.5/50

All: 1851.207+/-0.172 $\chi^2$/NDF: 1604391.4/93




Right In: -1676.742+/-2605.305 $\chi^2$/NDF: 18.7/19

Left Out: -479.338+/-2089.235 $\chi^2$/NDF:28.8/24

Right Out: -2452.144+/-2290.009 $\chi^2$/NDF: 29.3/25

Left In: -436.717+/-2245.180 $\chi^2$/NDF:13.6/22

Left: -459.559+/-1529.474 $\chi^2$/NDF: 42.4/47

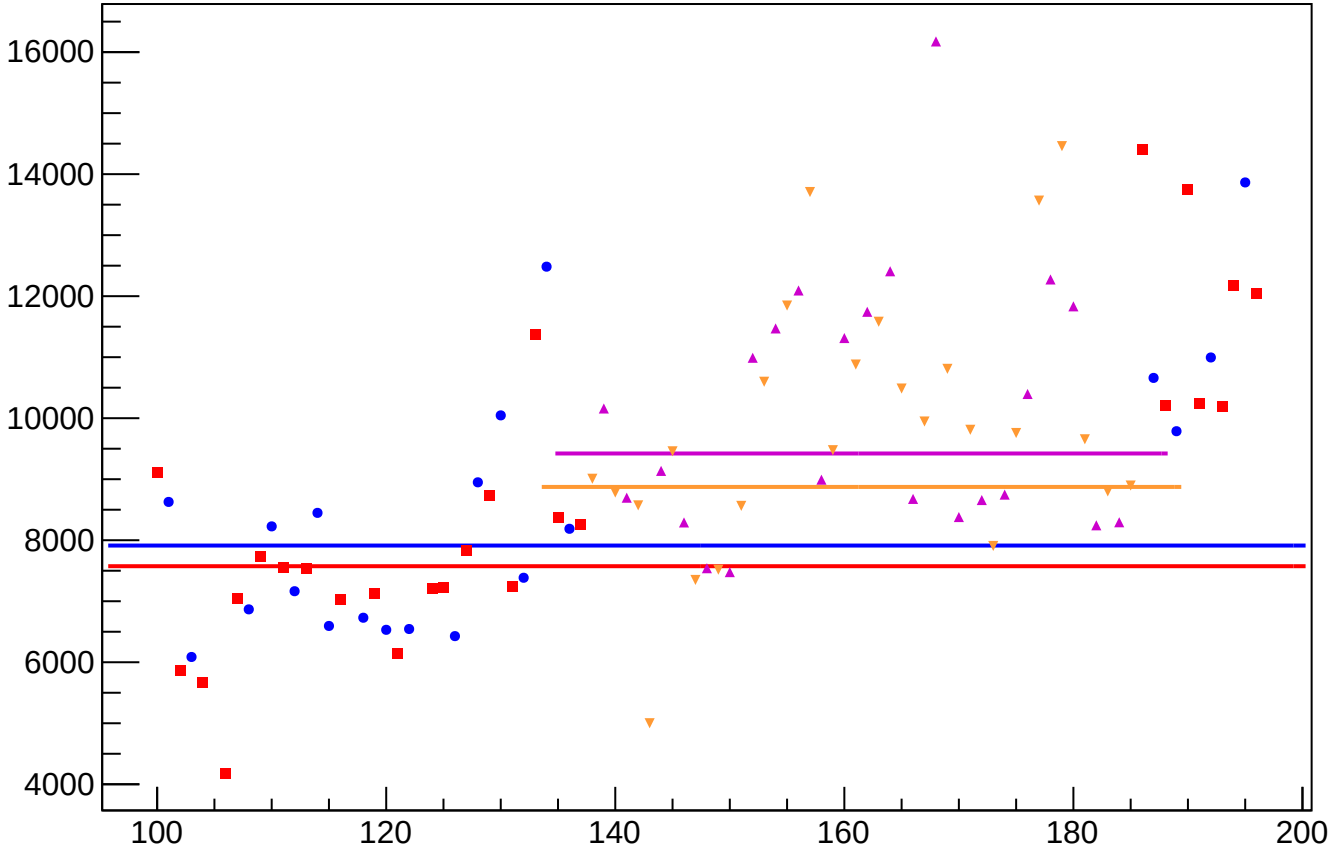
Right: -2114.178+/-1720.011 $\chi^2$/NDF: 48.0/45

In: -965.168+/-1700.771 $\chi^2$/NDF:32.4/42

Out: -1375.484+/-1543.421 $\chi^2$/NDF:58.5/50

All: -1190.181+/-1142.953 $\chi^2$/NDF: 90.9/93

# asym_at2_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 7912.767+/-1.842 $\chi^2$/NDF: 1005848.3/19

Left Out: 8873.592+/-1.477 $\chi^2$/NDF:2203249.6/24

Right Out: 7574.207+/-1.619 $\chi^2$/NDF: 1914204.5/25

Left In: 9421.708+/-1.588 $\chi^2$/NDF:1204848.0/22

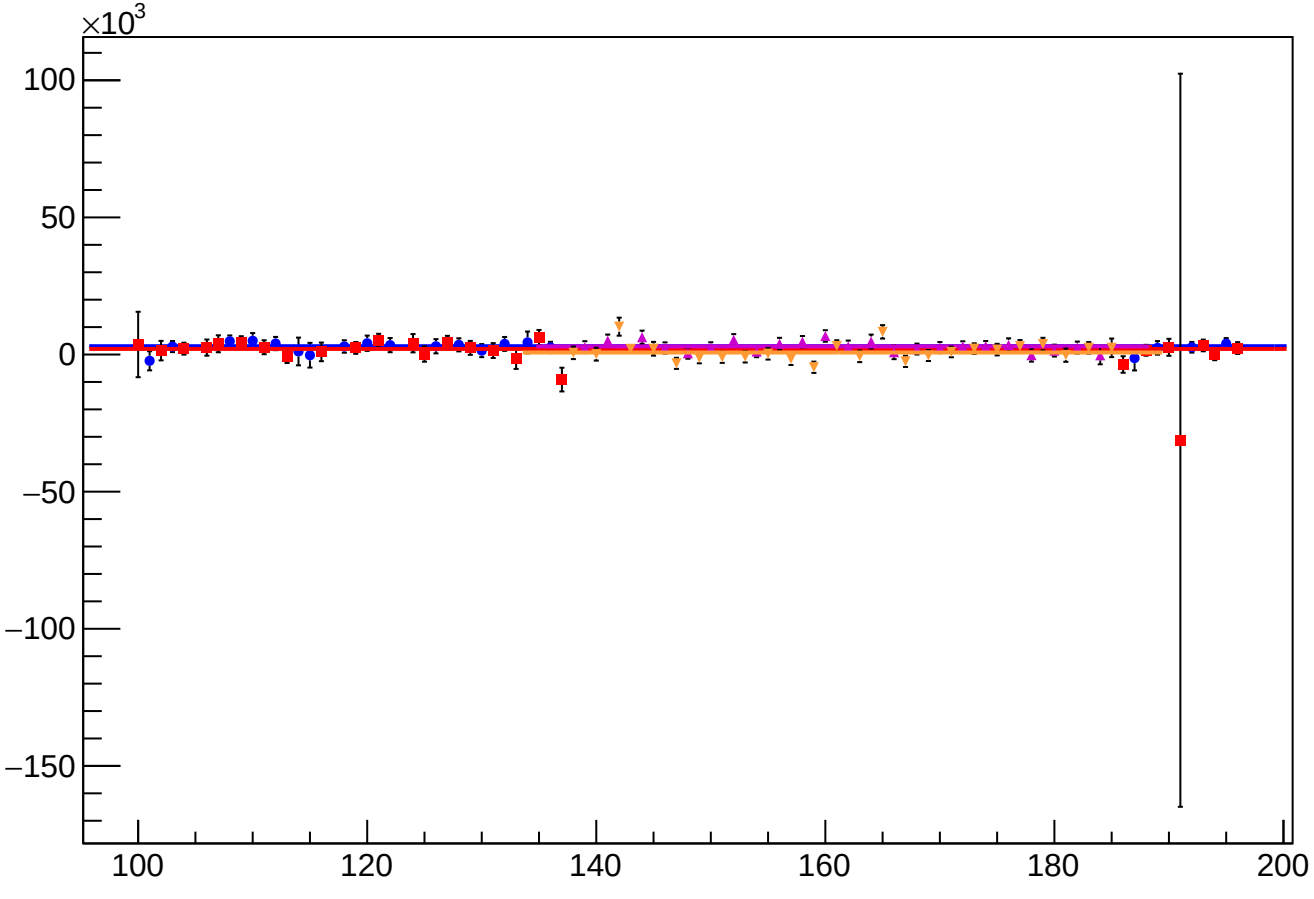
Left: 9127.955+/-1.082 $\chi^2$/NDF: 3471980.0/47

Right: 7721.771+/-1.216 $\chi^2$/NDF: 2939106.2/45

In: 8778.655+/-1.203 $\chi^2$/NDF:2595683.7/42

Out: 8283.347+/-1.091 $\chi^2$/NDF:4468873.5/50

All: 8507.034+/-0.808 $\chi^2$/NDF: 7157577.0/93




Right In: 3035.337+/-570.271 $\chi^2$/NDF: 6.6/19

Left Out: 739.018+/-432.879 $\chi^2$/NDF:41.6/24

Right Out: 2048.479+/-526.306 $\chi^2$/NDF: 21.6/25

Left In: 2979.226+/-450.335 $\chi^2$/NDF:15.6/22

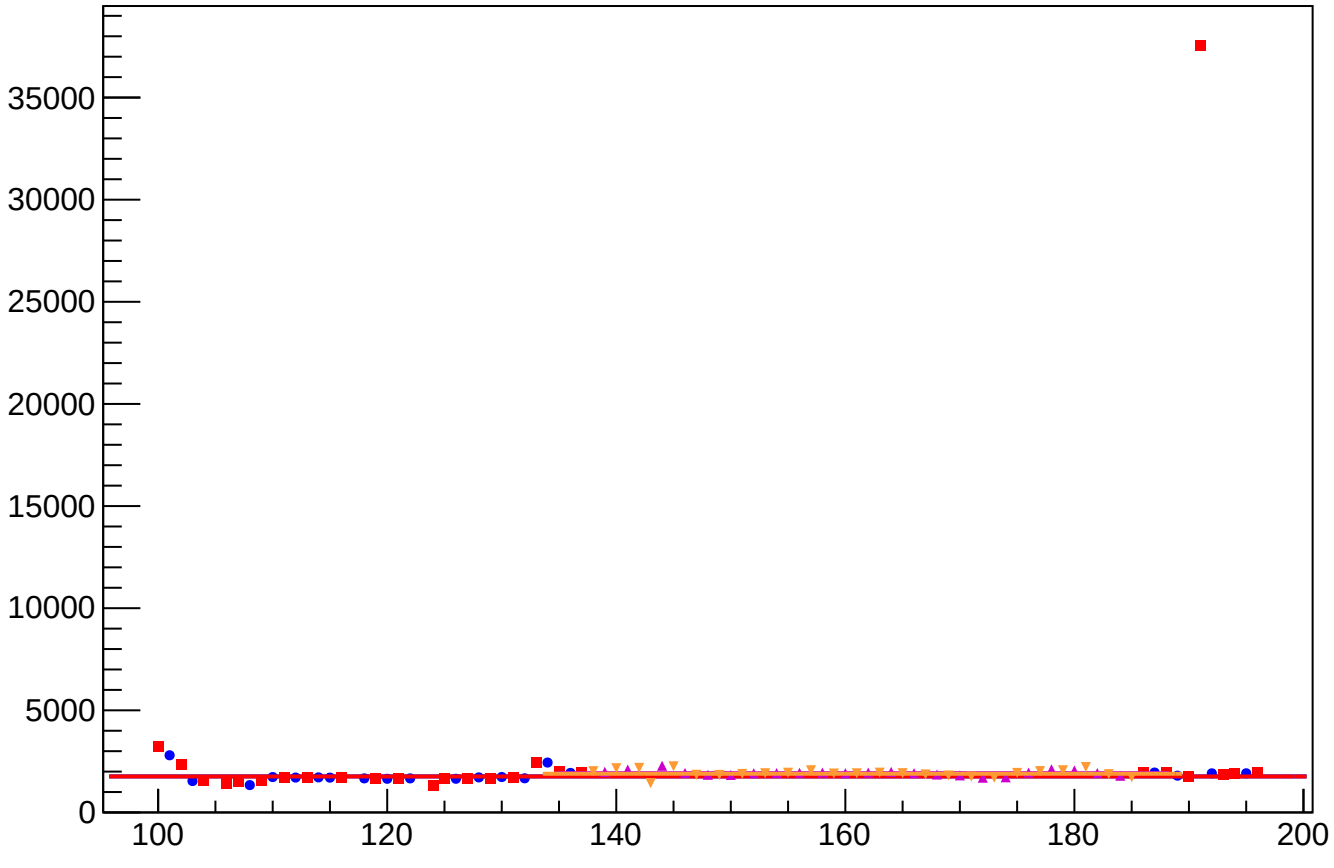
Left: 1814.862+/-312.080 $\chi^2$/NDF: 70.1/47

Right: 2502.405+/-386.765 $\chi^2$/NDF: 29.8/45

In: 3000.777+/-353.424 $\chi^2$/NDF:22.2/42

Out: 1267.402+/-334.324 $\chi^2$/NDF:66.9/50

All: 2085.987+/-242.874 $\chi^2$/NDF: 101.8/93




Right In: 1764.648+/-0.403 $\chi^2$/NDF: 399702.5/19

Left Out: 1894.687+/-0.306 $\chi^2$/NDF:368594.6/24

Right Out: 1762.595+/-0.372 $\chi^2$/NDF: 511265.4/25

Left In: 1923.042+/-0.318 $\chi^2$/NDF:150984.8/22

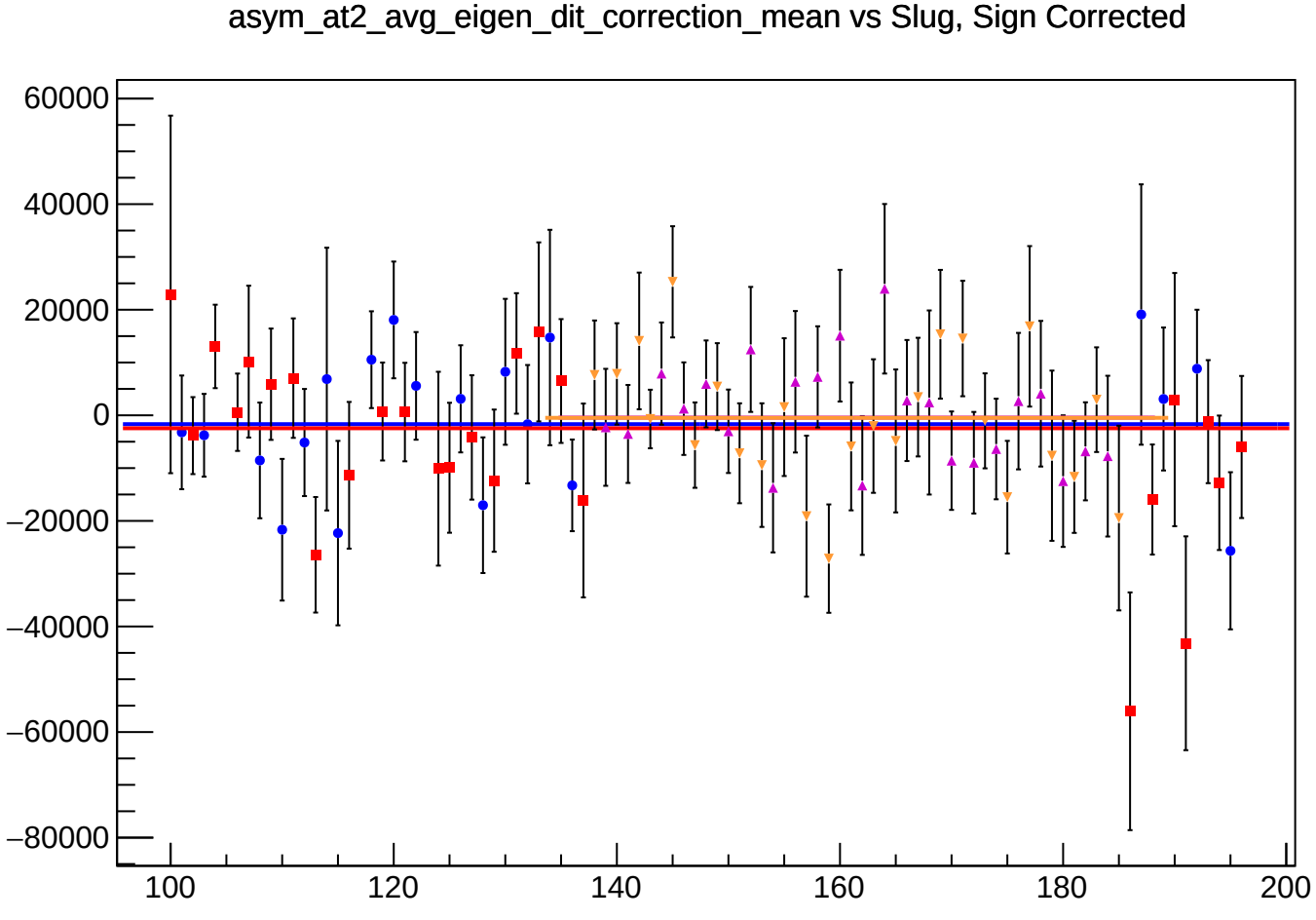
Left: 1908.304+/-0.221 $\chi^2$/NDF: 523700.4/47

Right: 1763.539+/-0.273 $\chi^2$/NDF: 910981.9/45

In: 1862.205+/-0.250 $\chi^2$/NDF:645717.5/42

Out: 1841.370+/-0.236 $\chi^2$/NDF:955029.3/50

All: 1851.208+/-0.172 $\chi^2$/NDF: 1604415.3/93




Right In: -1676.723+/-2605.300 $\chi^2$/NDF: 18.7/19

Left Out: -479.345+/-2089.238 $\chi^2$/NDF:28.8/24

Right Out: -2452.129+/-2290.005 $\chi^2$/NDF: 29.3/25

Left In: -436.720+/-2245.183 $\chi^2$/NDF:13.6/22

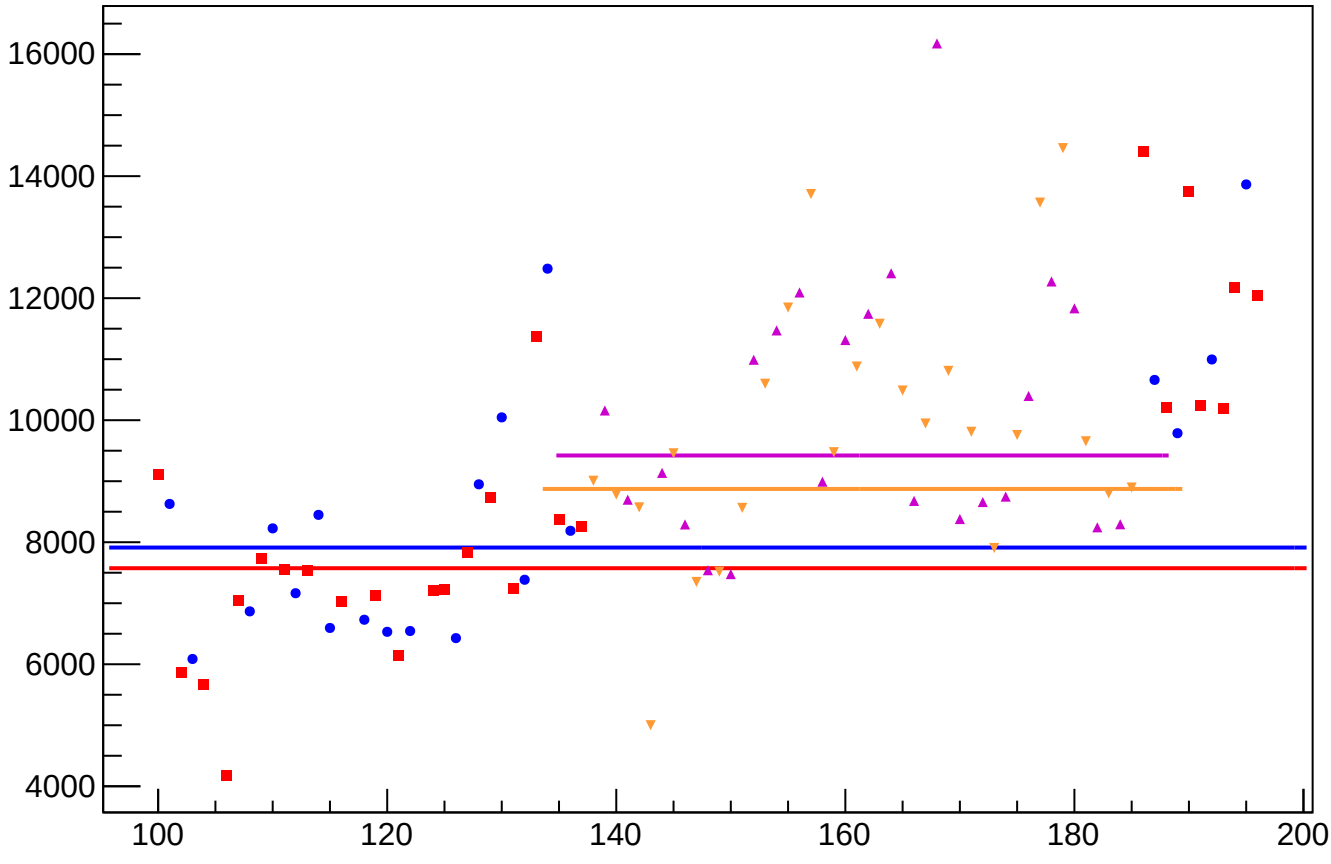
Left: -459.564+/-1529.476 $\chi^2$/NDF: 42.4/47

Right: -2114.162+/-1720.008 $\chi^2$/NDF: 48.0/45

In: -965.164+/-1700.771 $\chi^2$/NDF:32.4/42

Out: -1375.484+/-1543.421 $\chi^2$/NDF:58.5/50

All: -1190.179+/-1142.953 $\chi^2$/NDF: 90.9/93




Right In: 7912.751+/-1.842 $\chi^2$/NDF: 1005859.7/19

Left Out: 8873.607+/-1.477 $\chi^2$/NDF:2203251.2/24

Right Out: 7574.194+/-1.619 $\chi^2$/NDF: 1914213.6/25

Left In: 9421.722+/-1.588 $\chi^2$/NDF:1204851.9/22

Left: 9127.970+/-1.082 $\chi^2$/NDF: 3471985.2/47

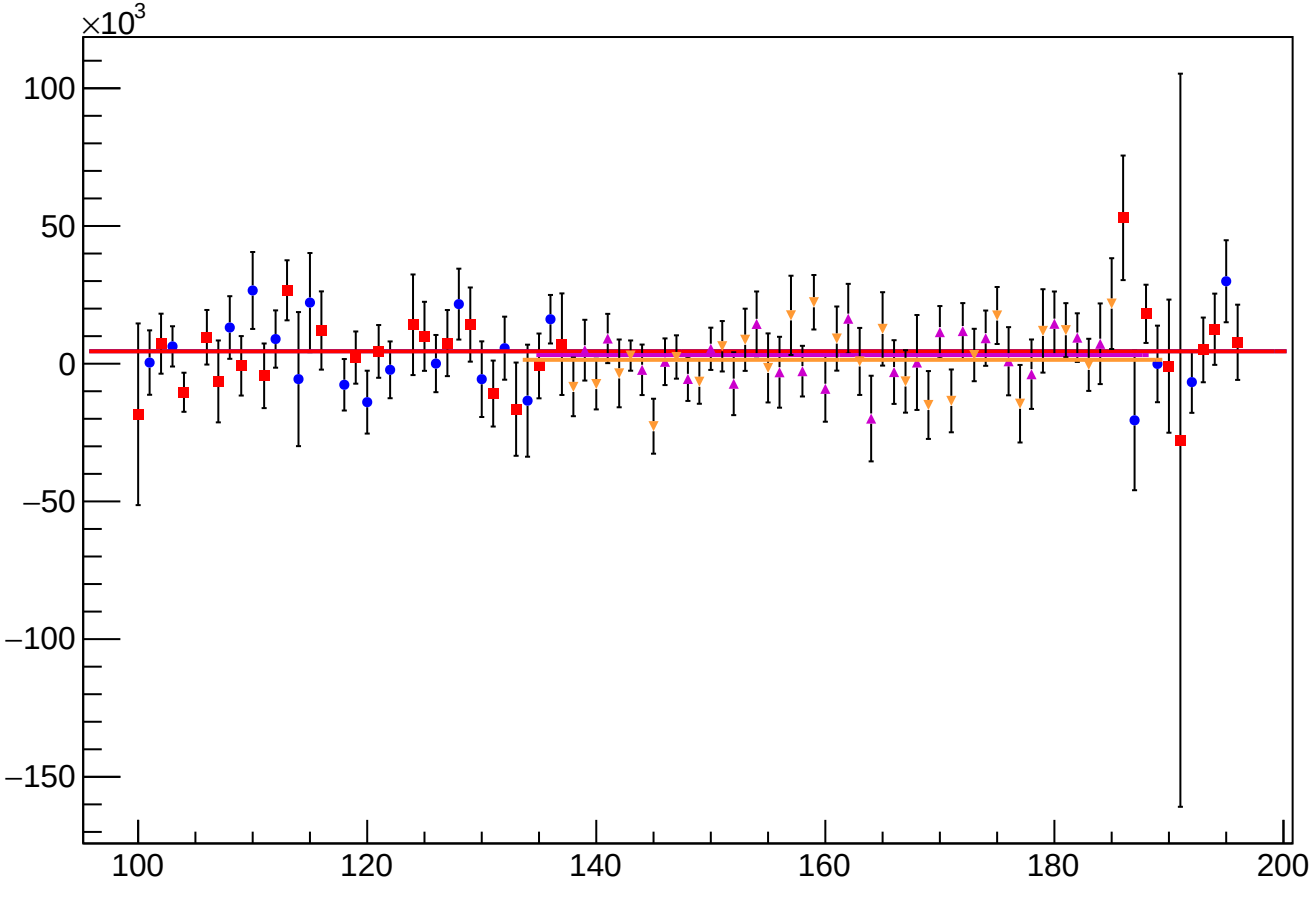
Right: 7721.757+/-1.216 $\chi^2$/NDF: 2939126.4/45

In: 8778.654+/-1.203 $\chi^2$/NDF:2595714.8/42

Out: 8283.347+/-1.091 $\chi^2$/NDF:4468899.4/50

All: 8507.033+/-0.808 $\chi^2$/NDF: 7157633.7/93

# asym_at2_avg_mean vs Slug, Sign Corrected




Right In: 4531.967+/-2633.193 $\chi^2$/NDF: 19.3/19

Left Out: 1408.316+/-2039.907 $\chi^2$/NDF:27.4/24

Right Out: 4492.932+/-2433.265 $\chi^2$/NDF: 22.3/25

Left In: 3139.264+/-2189.465 $\chi^2$/NDF:13.0/22

Left: 2212.657+/-1492.506 $\chi^2$/NDF: 40.7/47

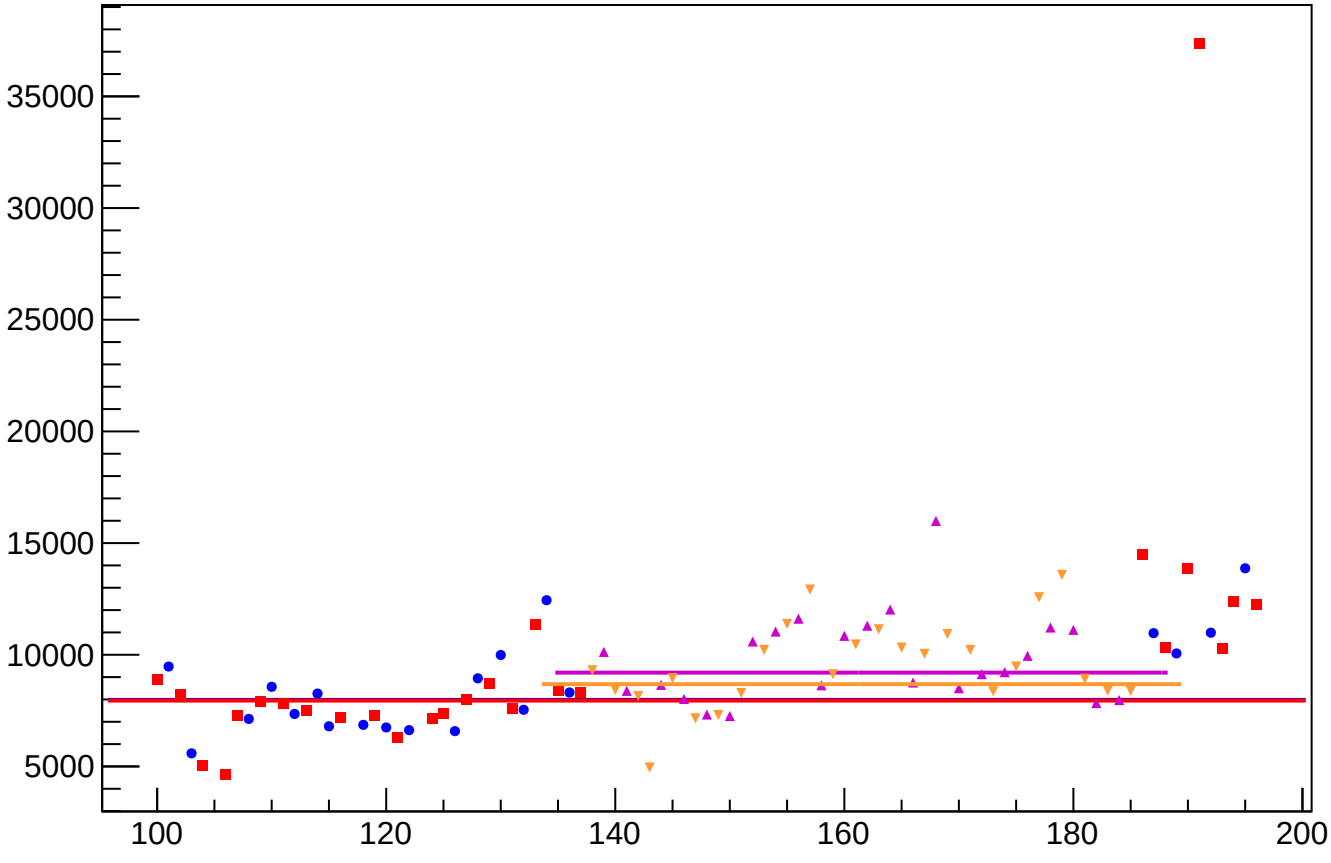
Right: 4510.912+/-1787.083 $\chi^2$/NDF: 41.6/45

In: 3708.550+/-1683.521 $\chi^2$/NDF:32.5/42

Out: 2681.453+/-1563.243 $\chi^2$/NDF:50.7/50

All: 3157.004+/-1145.543 $\chi^2$/NDF: 83.3/93

# asym_at2_avg_rms vs Slug, Sign Corrected




Right In: 7979.309+/-1.862 $\chi^2$/NDF: 1087596.7/19

Left Out: 8684.549+/-1.442 $\chi^2$/NDF:2051622.3/24

Right Out: 7949.729+/-1.720 $\chi^2$/NDF: 1743265.1/25

Left In: 9200.796+/-1.548 $\chi^2$/NDF:1129421.3/22

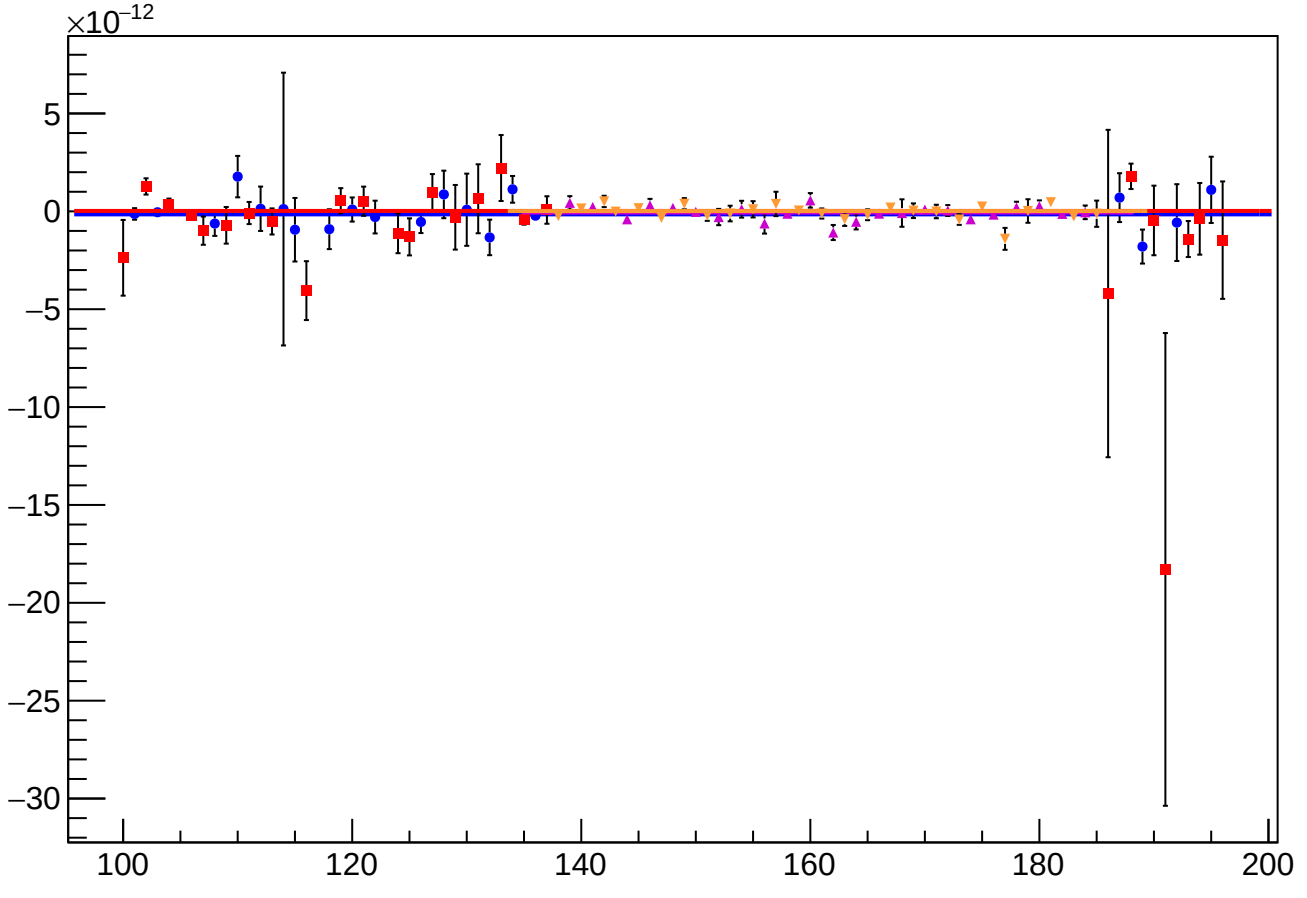
Left: 8924.440+/-1.055 $\chi^2$/NDF: 3240566.0/47

Right: 7963.353+/-1.264 $\chi^2$/NDF: 2830997.9/45

In: 8701.493+/-1.190 $\chi^2$/NDF:2471471.0/42

Out: 8381.237+/-1.105 $\chi^2$/NDF:3902009.6/50

All: 8529.513+/-0.810 $\chi^2$/NDF: 6412346.5/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 45.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.8/22

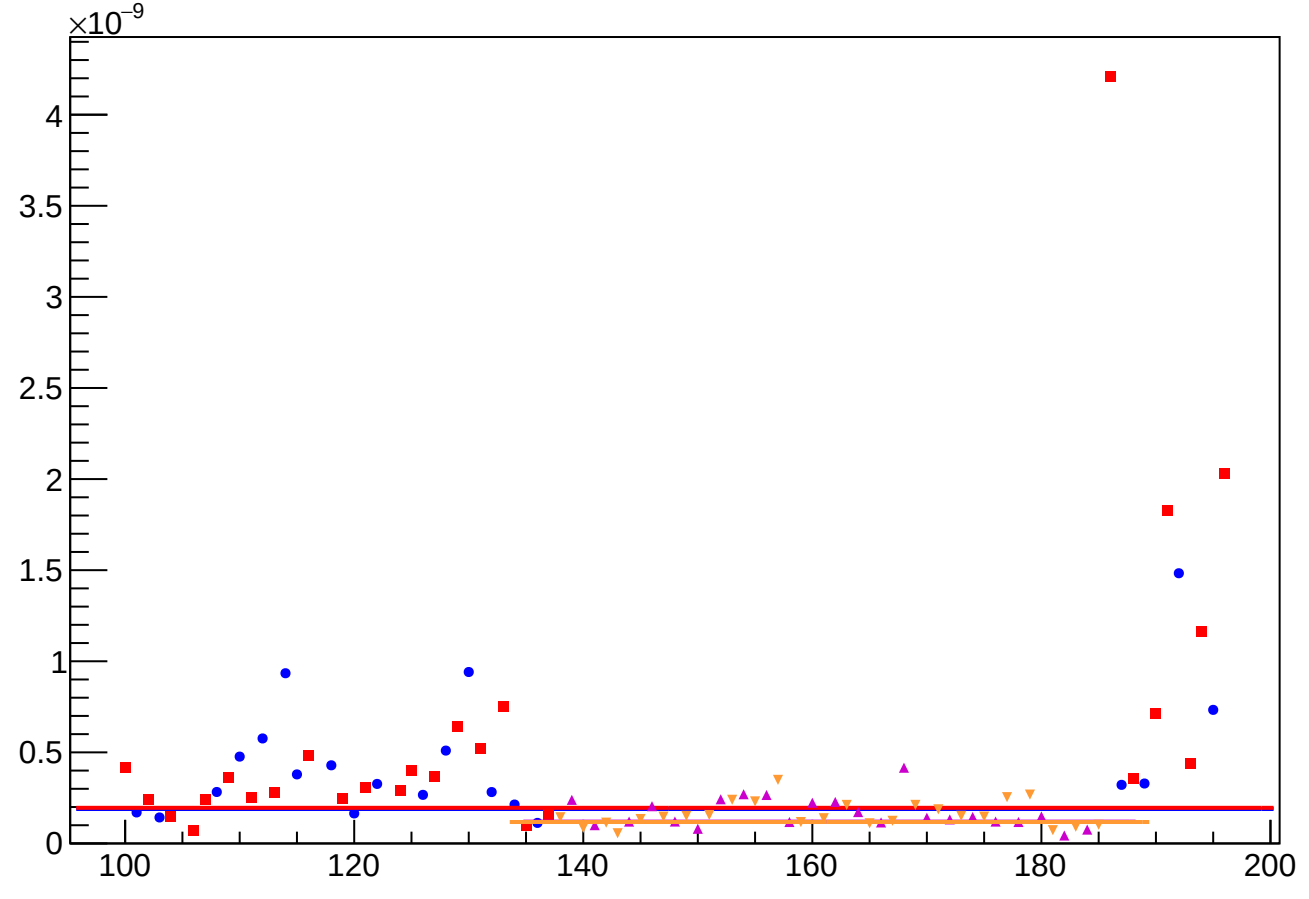
Left: -0.000+/-0.000 $\chi^2$/NDF: 57.7/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 62.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:44.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:74.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 121.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2699119.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2335885.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3936758.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2660632.2/22

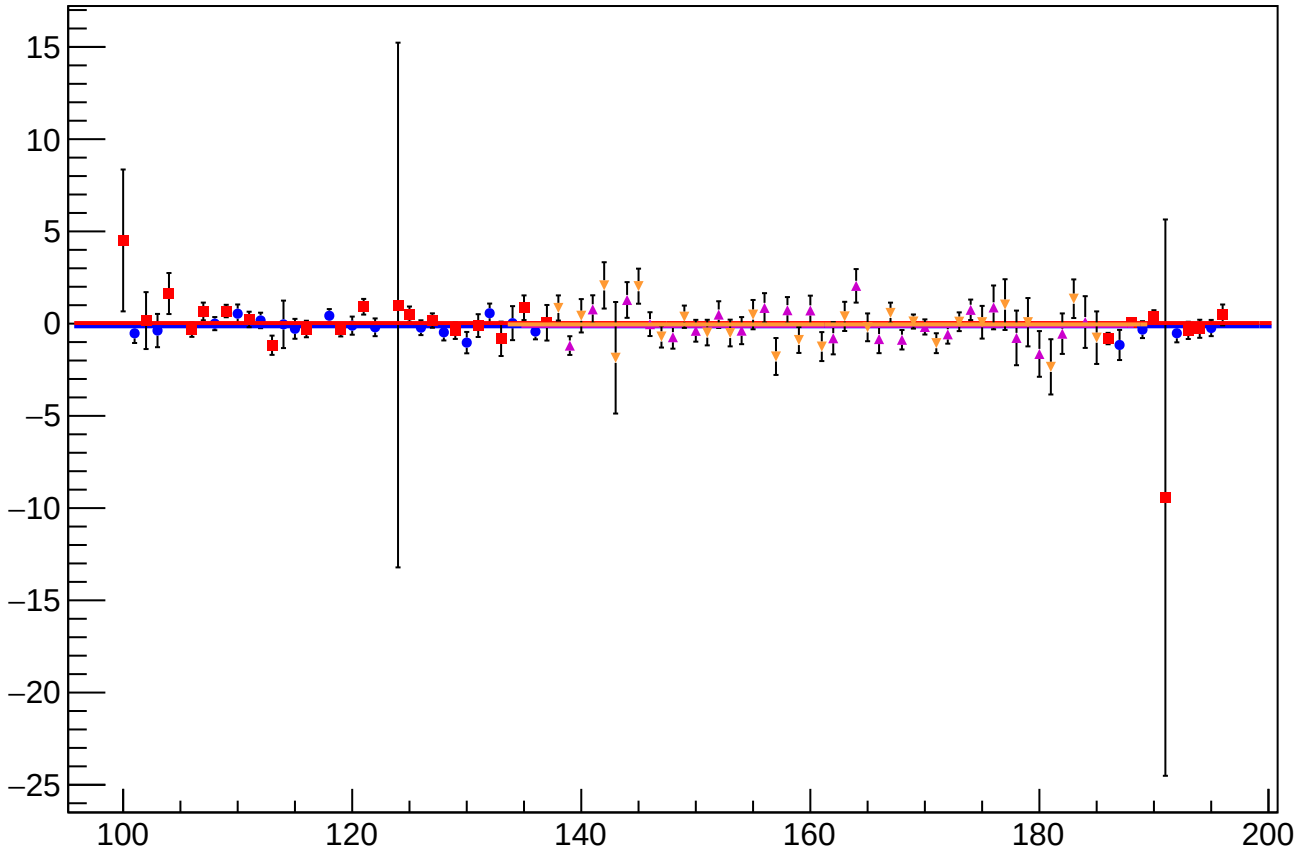
Left: 0.000+/-0.000 $\chi^2$/NDF: 4998299.1/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6638929.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:5938663.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7003646.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 12944601.0/93




Right In: -0.145+/-0.110 $\chi^2$/NDF: 13.4/19

Left Out: -0.041+/-0.148 $\chi^2$/NDF:30.1/24

Right Out: 0.032+/-0.086 $\chi^2$/NDF: 36.5/25

Left In: -0.128+/-0.145 $\chi^2$/NDF:29.0/22

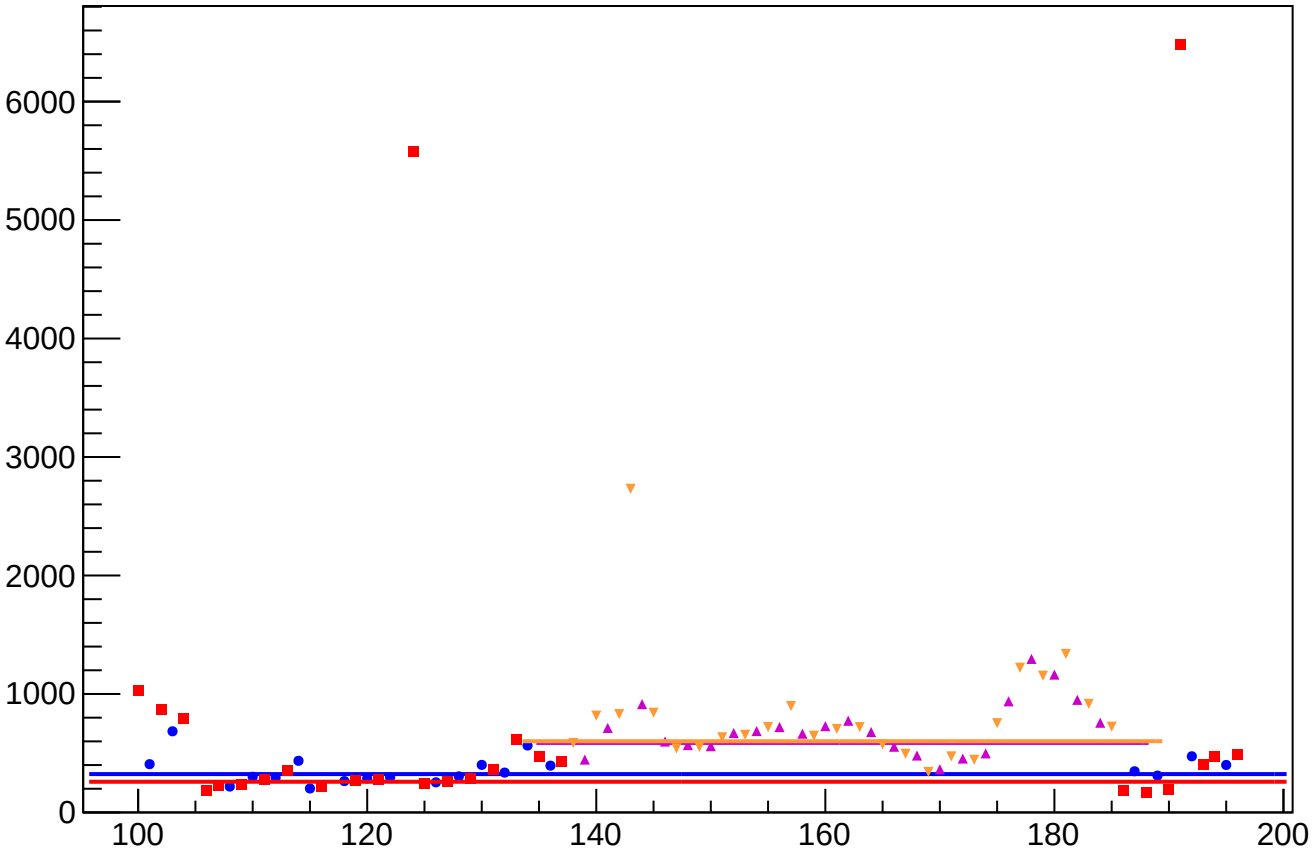
Left: -0.085+/-0.103 $\chi^2$/NDF: 59.3/47

Right: -0.036+/-0.068 $\chi^2$/NDF: 51.5/45

In: -0.139+/-0.088 $\chi^2$/NDF:42.4/42

Out: 0.013+/-0.075 $\chi^2$/NDF:66.8/50

All: -0.051+/-0.057 $\chi^2$/NDF: 111.0/93




Right In: 323.806+/-0.078 $\chi^2$/NDF: 1294111.5/19

Left Out: 601.214+/-0.104 $\chi^2$/NDF:4460456.7/24

Right Out: 259.143+/-0.061 $\chi^2$/NDF: 3906190.1/25

Left In: 586.817+/-0.103 $\chi^2$/NDF:2934488.2/22

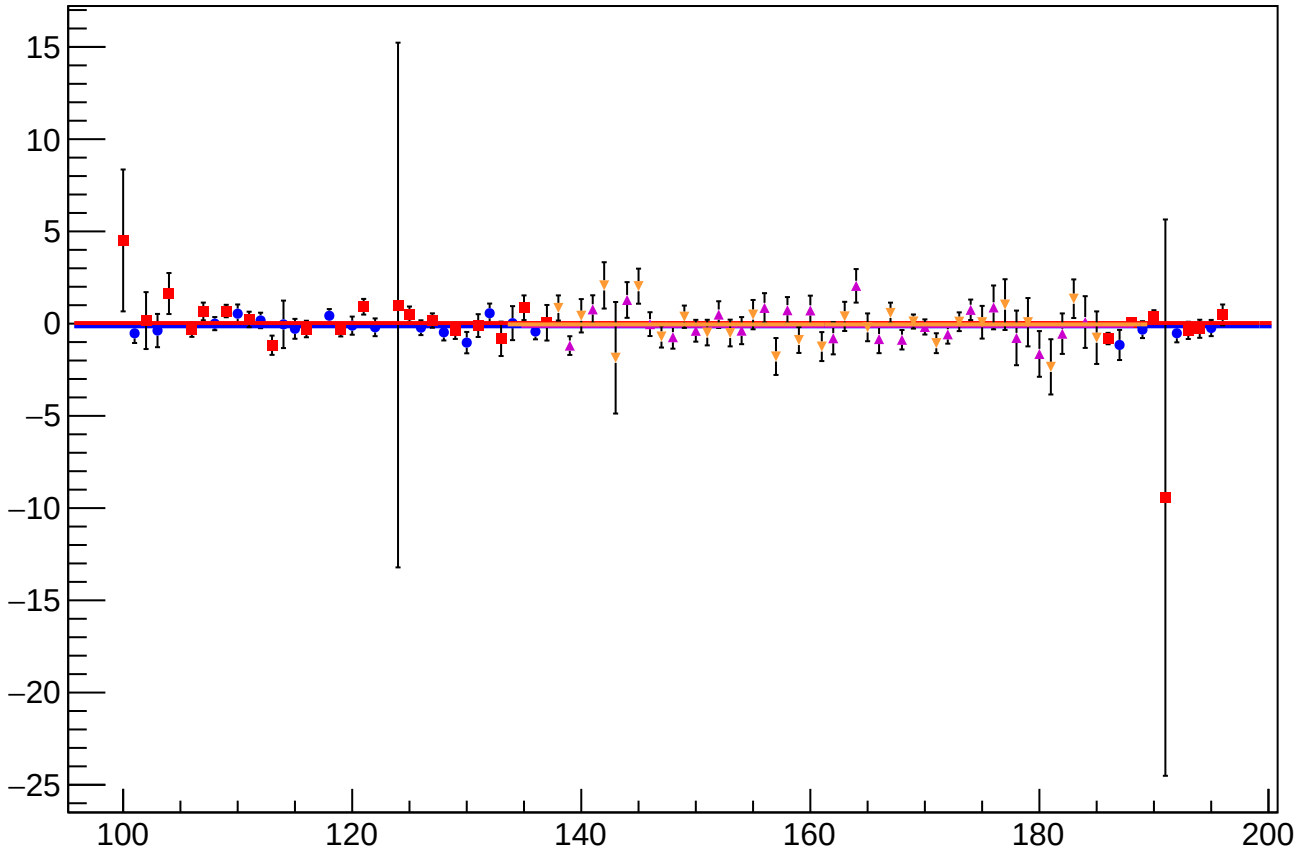
Left: 593.901+/-0.073 $\chi^2$/NDF: 7404620.8/47

Right: 283.842+/-0.048 $\chi^2$/NDF: 5628684.0/45

In: 419.535+/-0.062 $\chi^2$/NDF:8402365.5/42

Out: 346.441+/-0.053 $\chi^2$/NDF:16376364.4/50

All: 377.131+/-0.040 $\chi^2$/NDF: 25586565.8/93




Right In: -0.145+/-0.110 $\chi^2$/NDF: 13.4/19

Left Out: -0.041+/-0.148 $\chi^2$/NDF:30.1/24

Right Out: 0.032+/-0.086 $\chi^2$/NDF: 36.5/25

Left In: -0.128+/-0.145 $\chi^2$/NDF:29.0/22

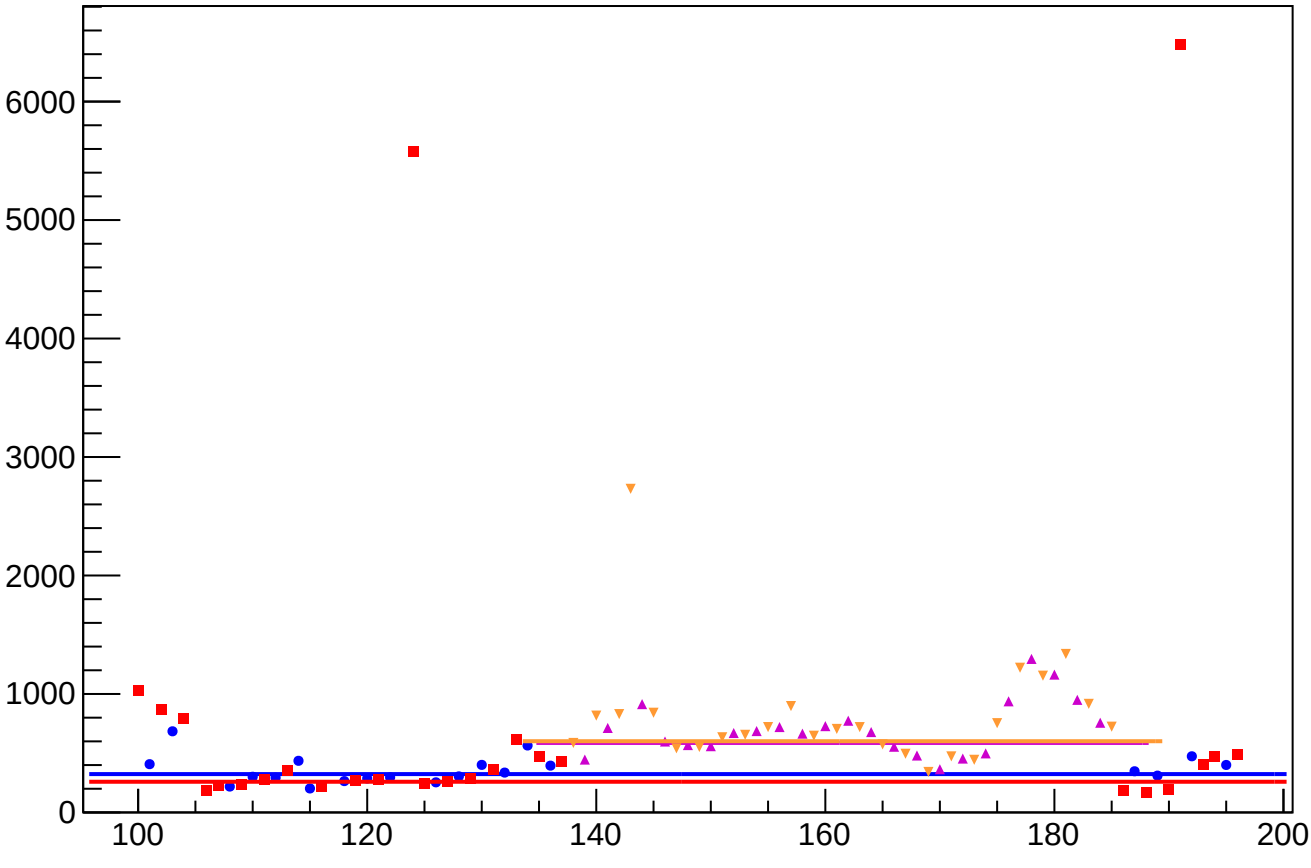
Left: -0.085+/-0.103 $\chi^2$/NDF: 59.3/47

Right: -0.036+/-0.068 $\chi^2$/NDF: 51.5/45

In: -0.139+/-0.088 $\chi^2$/NDF:42.4/42

Out: 0.013+/-0.075 $\chi^2$/NDF:66.8/50

All: -0.051+/-0.057 $\chi^2$/NDF: 111.0/93




Right In: 323.806+/-0.078 $\chi^2$/NDF: 1294111.5/19

Left Out: 601.214+/-0.104 $\chi^2$/NDF:4460456.7/24

Right Out: 259.143+/-0.061 $\chi^2$/NDF: 3906190.1/25

Left In: 586.817+/-0.103 $\chi^2$/NDF:2934488.2/22

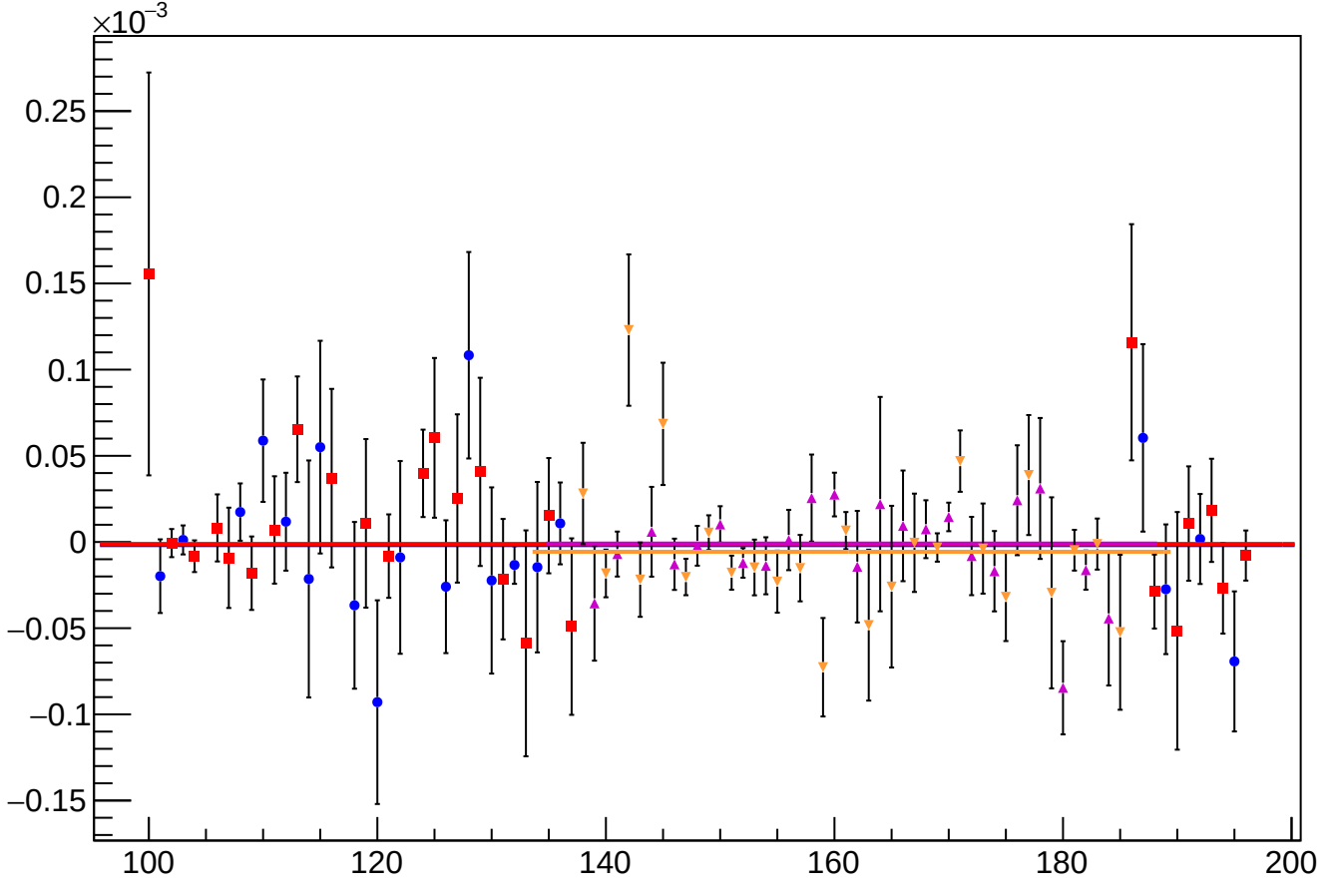
Left: 593.901+/-0.073 $\chi^2$/NDF: 7404620.8/47

Right: 283.842+/-0.048 $\chi^2$/NDF: 5628684.0/45

In: 419.535+/-0.062 $\chi^2$/NDF:8402365.5/42

Out: 346.441+/-0.053 $\chi^2$/NDF:16376364.4/50

All: 377.131+/-0.040 $\chi^2$/NDF: 25586565.8/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:42.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:30.2/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 73.9/47

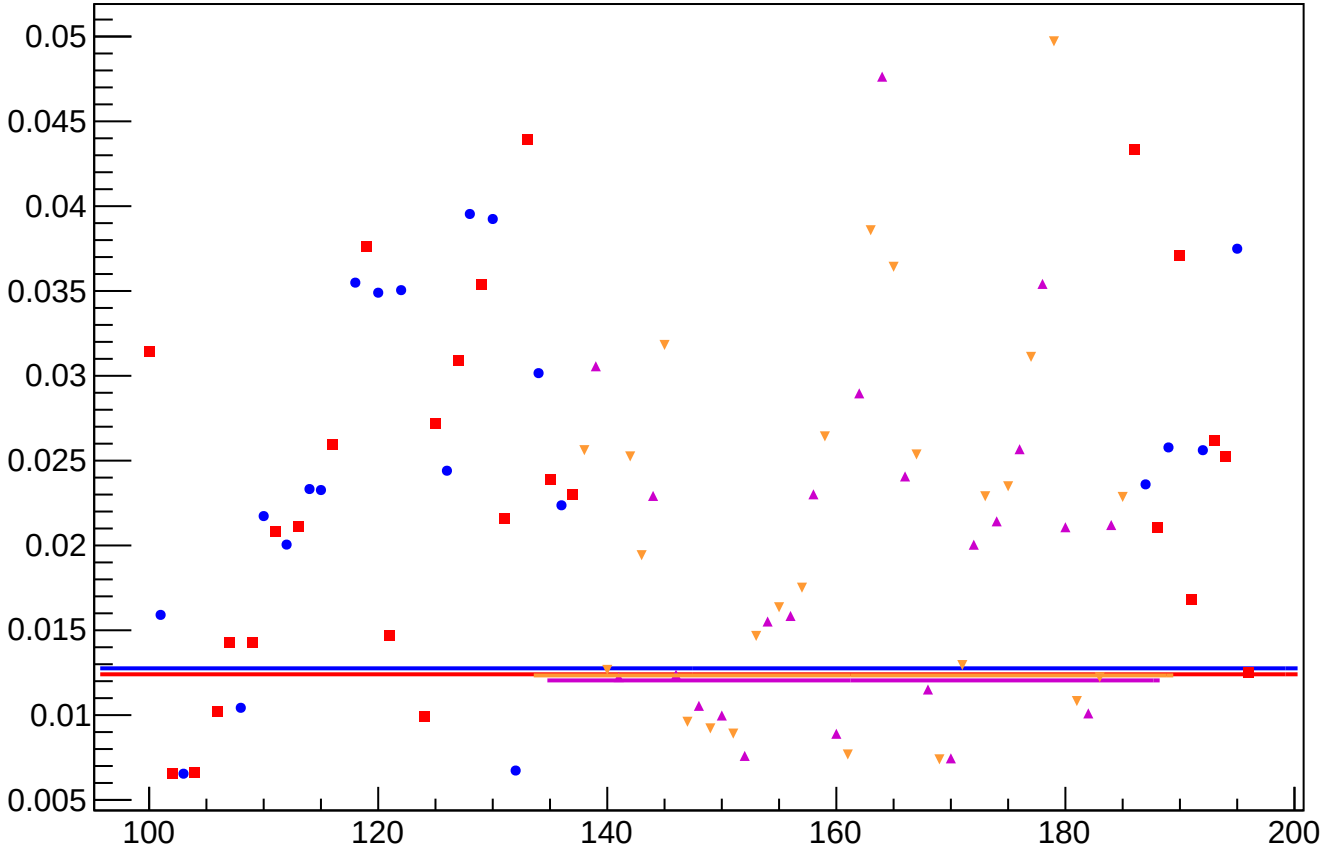
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:49.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:66.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 116.3/93

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 6368760.6/19

Left Out: 0.012+/-0.000 $\chi^2$/NDF:7839123.8/24

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 6619923.3/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:6379401.9/22

Left: 0.012+/-0.000 $\chi^2$/NDF: 14226676.0/47

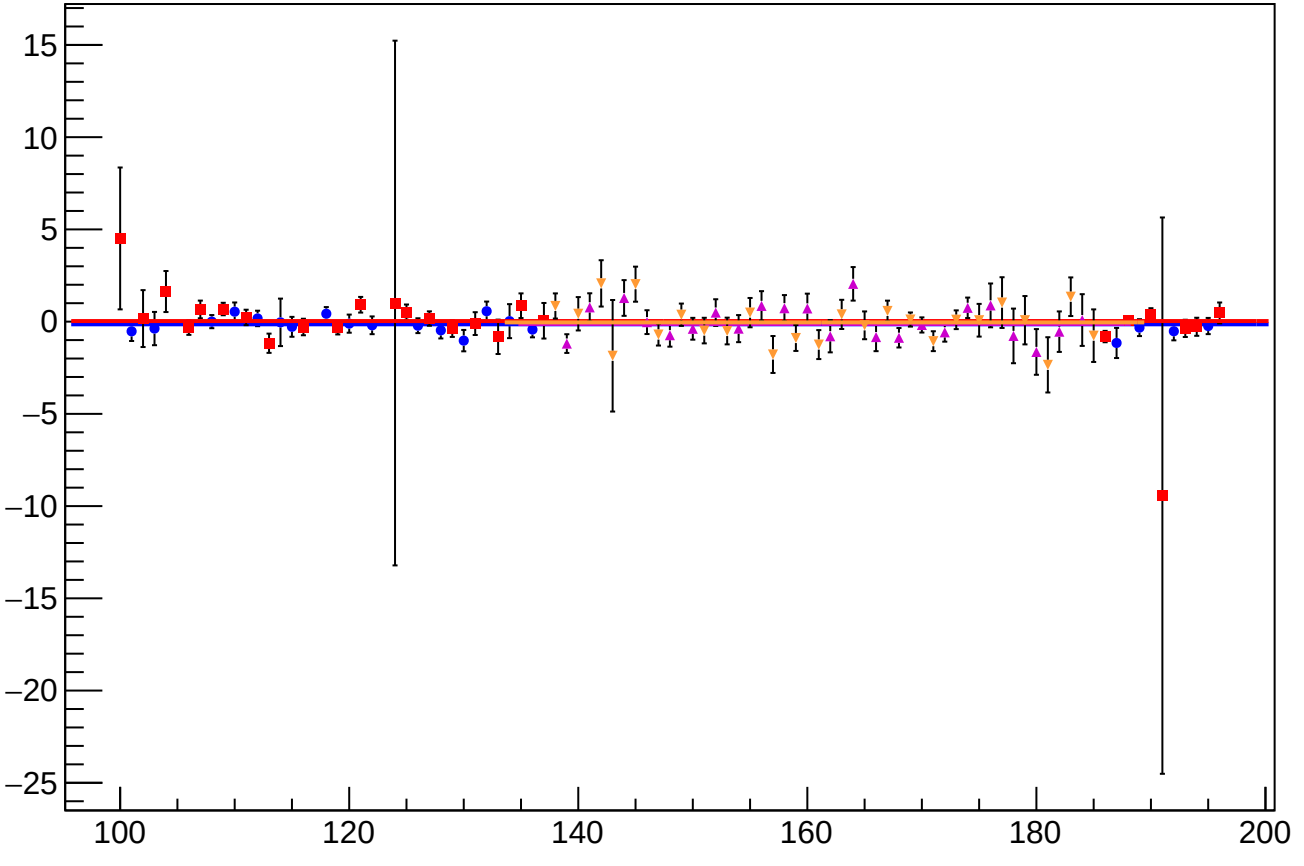
Right: 0.013+/-0.000 $\chi^2$/NDF: 12994225.9/45

In: 0.012+/-0.000 $\chi^2$/NDF:12775716.7/42

Out: 0.012+/-0.000 $\chi^2$/NDF:14459336.6/50

All: 0.012+/-0.000 $\chi^2$/NDF: 27236734.9/93

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.145+/-0.110 $\chi^2$/NDF: 13.4/19

Left Out: -0.041+/-0.148 $\chi^2$/NDF:30.1/24

Right Out: 0.032+/-0.086 $\chi^2$/NDF: 36.5/25

Left In: -0.128+/-0.145 $\chi^2$/NDF:29.0/22

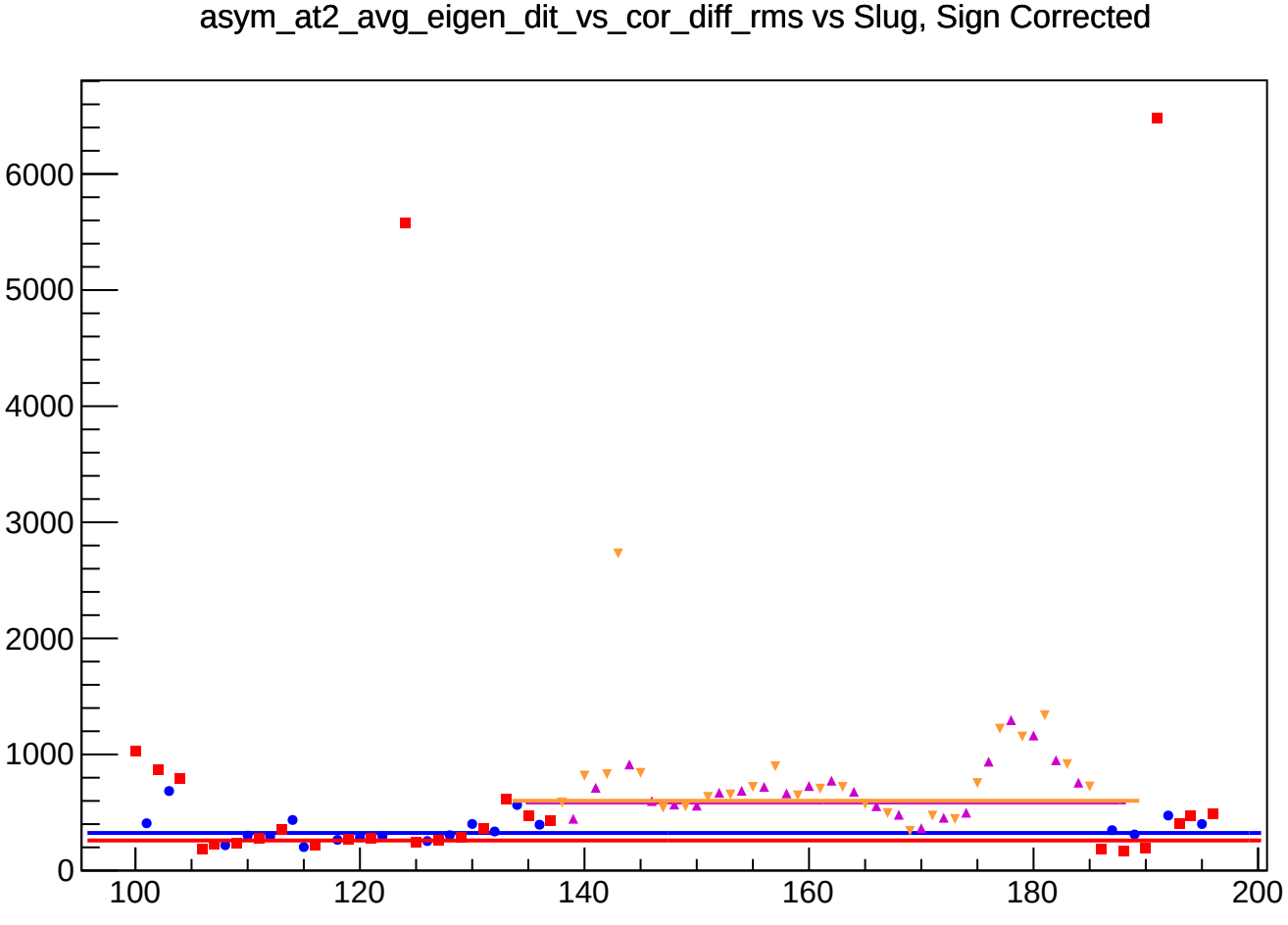
Left: -0.085+/-0.103 $\chi^2$/NDF: 59.3/47

Right: -0.036+/-0.068 $\chi^2$/NDF: 51.5/45

In: -0.139+/-0.088 $\chi^2$/NDF:42.4/42

Out: 0.013+/-0.075 $\chi^2$/NDF:66.8/50

All: -0.051+/-0.057 $\chi^2$/NDF: 111.0/93




Right In: 323.804+/-0.078 $\chi^2$/NDF: 1294073.6/19

Left Out: 601.214+/-0.104 $\chi^2$/NDF:4460662.1/24

Right Out: 259.136+/-0.061 $\chi^2$/NDF: 3906400.2/25

Left In: 586.820+/-0.103 $\chi^2$/NDF:2934613.3/22

Left: 593.903+/-0.073 $\chi^2$/NDF: 7404947.7/47

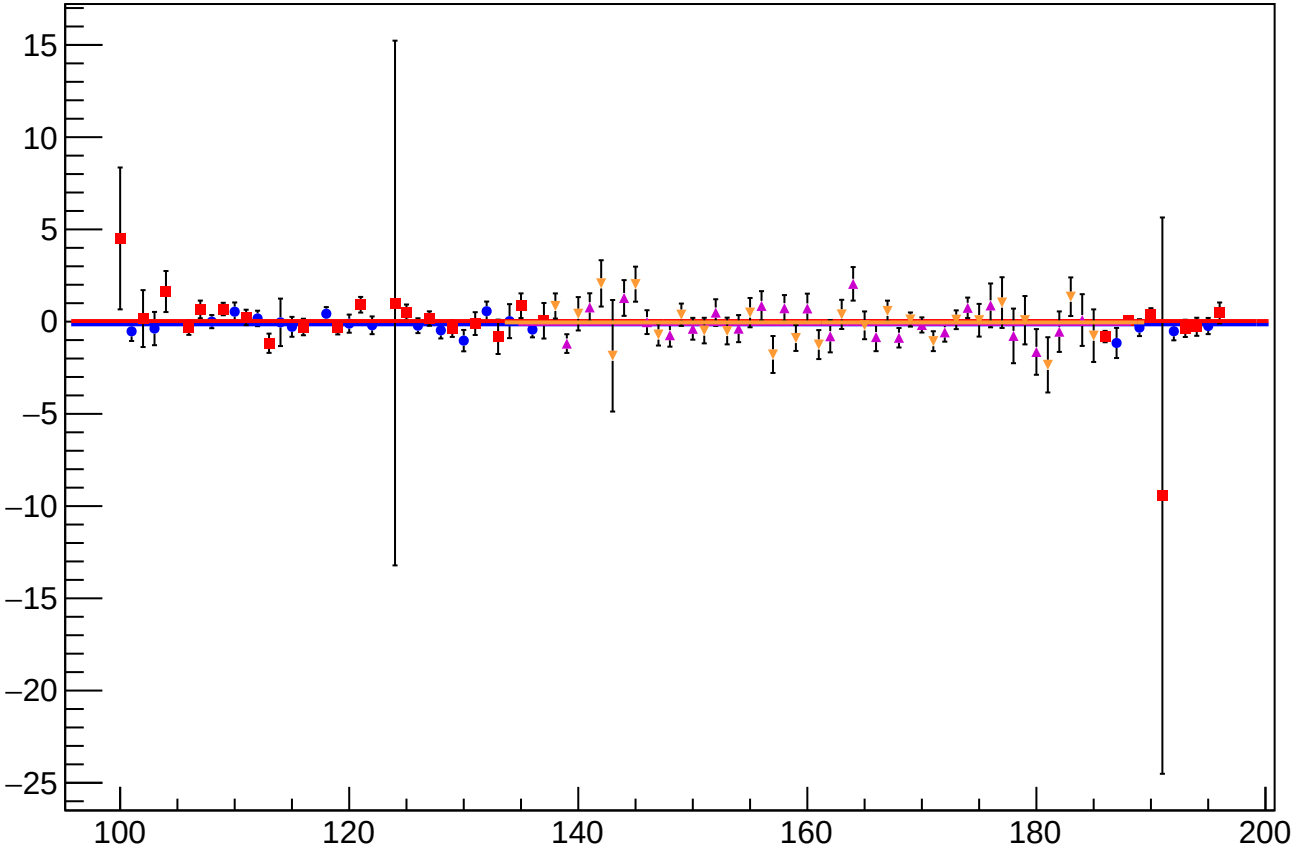
Right: 283.837+/-0.048 $\chi^2$/NDF: 5628936.6/45

In: 419.533+/-0.062 $\chi^2$/NDF:8402573.7/42

Out: 346.433+/-0.053 $\chi^2$/NDF:16377160.6/50

All: 377.125+/-0.040 $\chi^2$/NDF: 25587729.2/93

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.145+/-0.110 $\chi^2$/NDF: 13.4/19

Left Out: -0.041+/-0.148 $\chi^2$/NDF:30.1/24

Right Out: 0.032+/-0.086 $\chi^2$/NDF: 36.5/25

Left In: -0.128+/-0.145 $\chi^2$/NDF:29.0/22

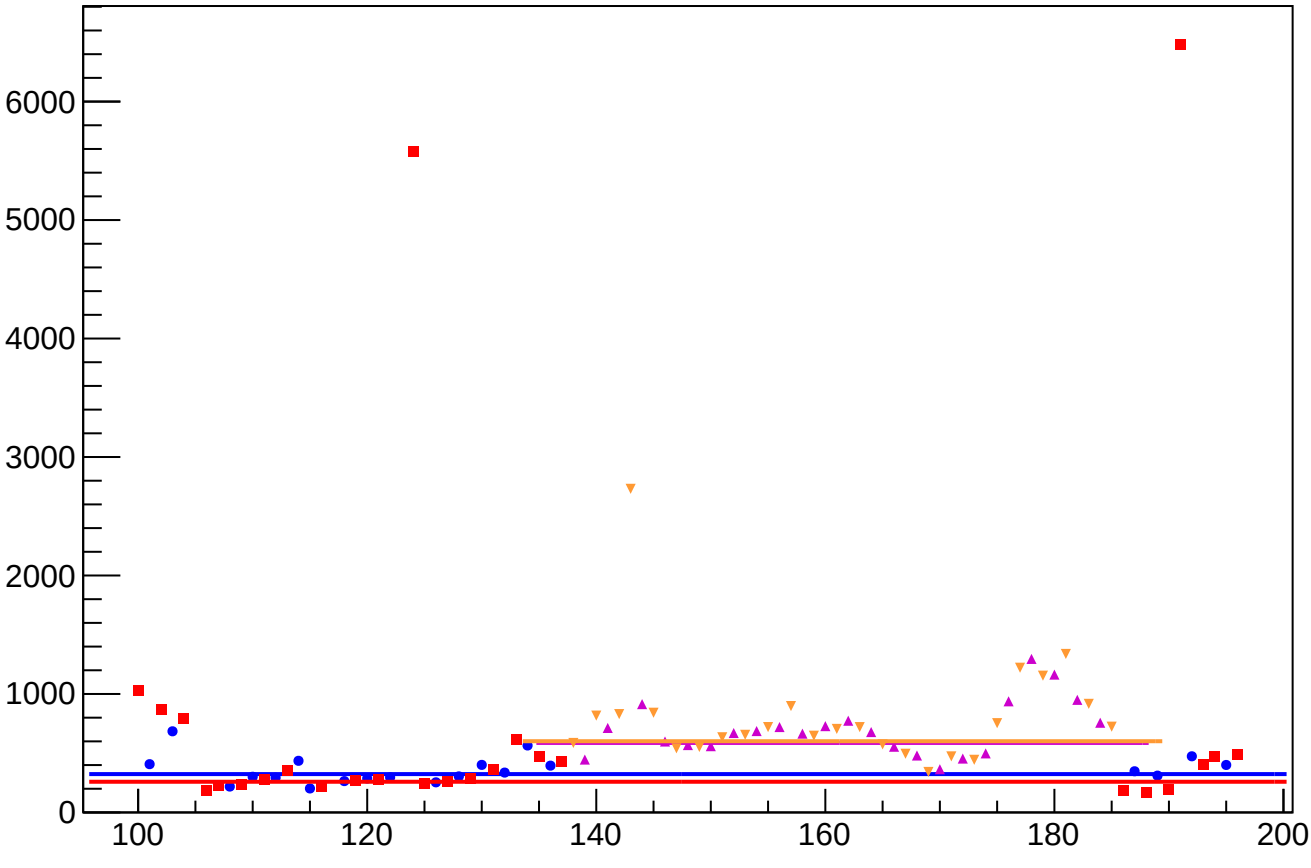
Left: -0.085+/-0.103 $\chi^2$/NDF: 59.3/47

Right: -0.036+/-0.068 $\chi^2$/NDF: 51.5/45

In: -0.139+/-0.088 $\chi^2$/NDF:42.4/42

Out: 0.013+/-0.075 $\chi^2$/NDF:66.8/50

All: -0.051+/-0.057 $\chi^2$/NDF: 111.0/93




Right In: 323.804+/-0.078 $\chi^2$/NDF: 1294073.6/19

Left Out: 601.214+/-0.104 $\chi^2$/NDF:4460662.1/24

Right Out: 259.136+/-0.061 $\chi^2$/NDF: 3906400.2/25

Left In: 586.820+/-0.103 $\chi^2$/NDF:2934613.3/22

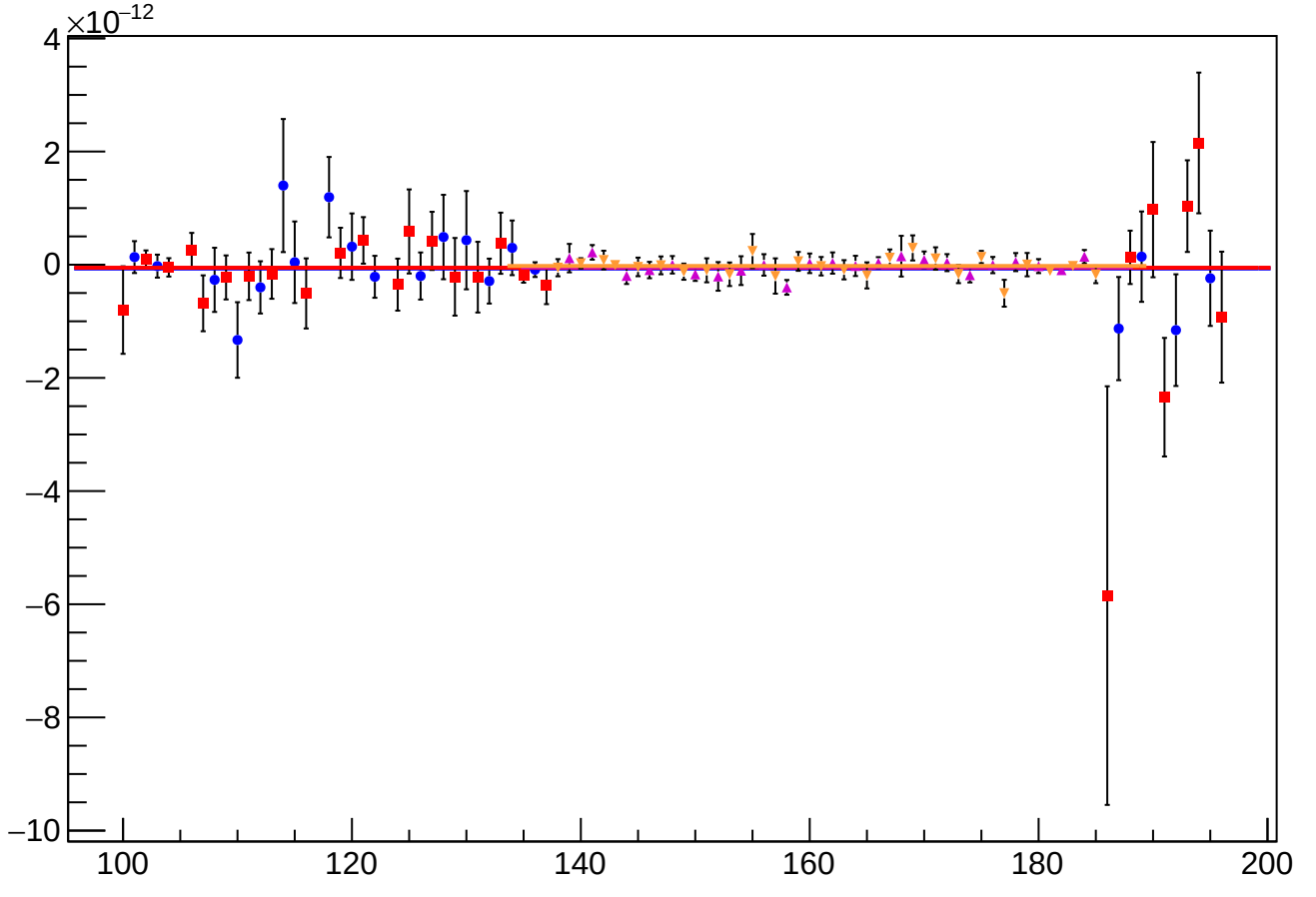
Left: 593.903+/-0.073 $\chi^2$/NDF: 7404947.7/47

Right: 283.837+/-0.048 $\chi^2$/NDF: 5628936.6/45

In: 419.533+/-0.062 $\chi^2$/NDF:8402573.7/42

Out: 346.433+/-0.053 $\chi^2$/NDF:16377160.6/50

All: 377.125+/-0.040 $\chi^2$/NDF: 25587729.2/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.0/22

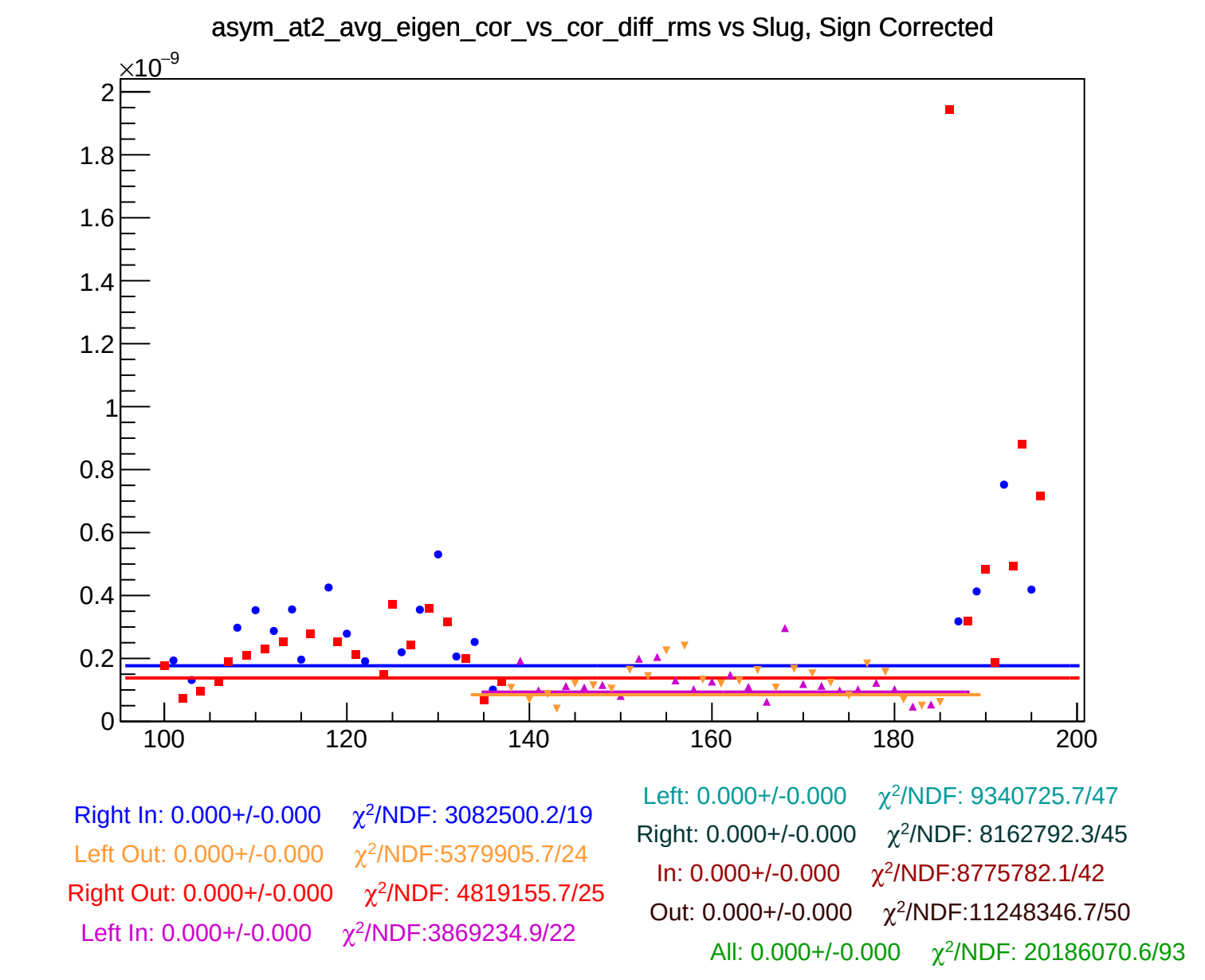
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.7/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.8/45

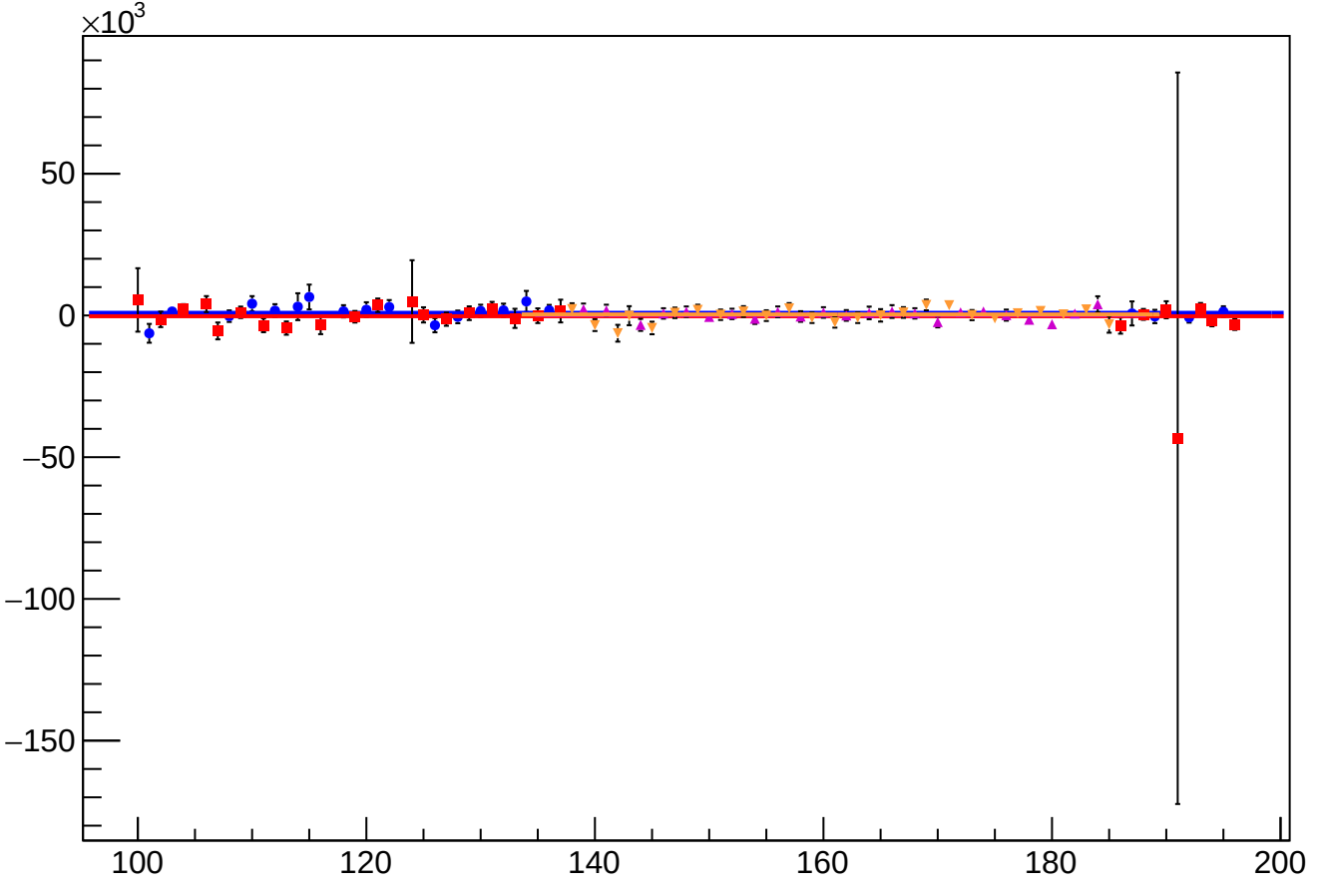
In: -0.000+/-0.000 $\chi^2$/NDF:36.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:41.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 78.7/93


asym_at2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3082500.2/19
Left Out: 0.000+/-0.000 χ²/NDF:5379905.7/24
Right Out: 0.000+/-0.000 χ²/NDF: 4819155.7/25
Left In: 0.000+/-0.000 χ²/NDF:3869234.9/22
Left: 0.000+/-0.000 χ²/NDF: 9340725.7/47
Right: 0.000+/-0.000 χ²/NDF: 8162792.3/45
In: 0.000+/-0.000 χ²/NDF:8775782.1/42
Out: 0.000+/-0.000 χ²/NDF:11248346.7/50
All: 0.000+/-0.000 χ²/NDF: 20186070.6/93

# reg_asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 934.242+/-534.620 $\chi^2$/NDF: 15.7/19

Left Out: 361.645+/-388.131 $\chi^2$/NDF:29.6/24

Right Out: -273.398+/-498.188 $\chi^2$/NDF: 25.1/25

Left In: 157.028+/-394.257 $\chi^2$/NDF:16.0/22

Left: 260.939+/-276.591 $\chi^2$/NDF: 45.7/47

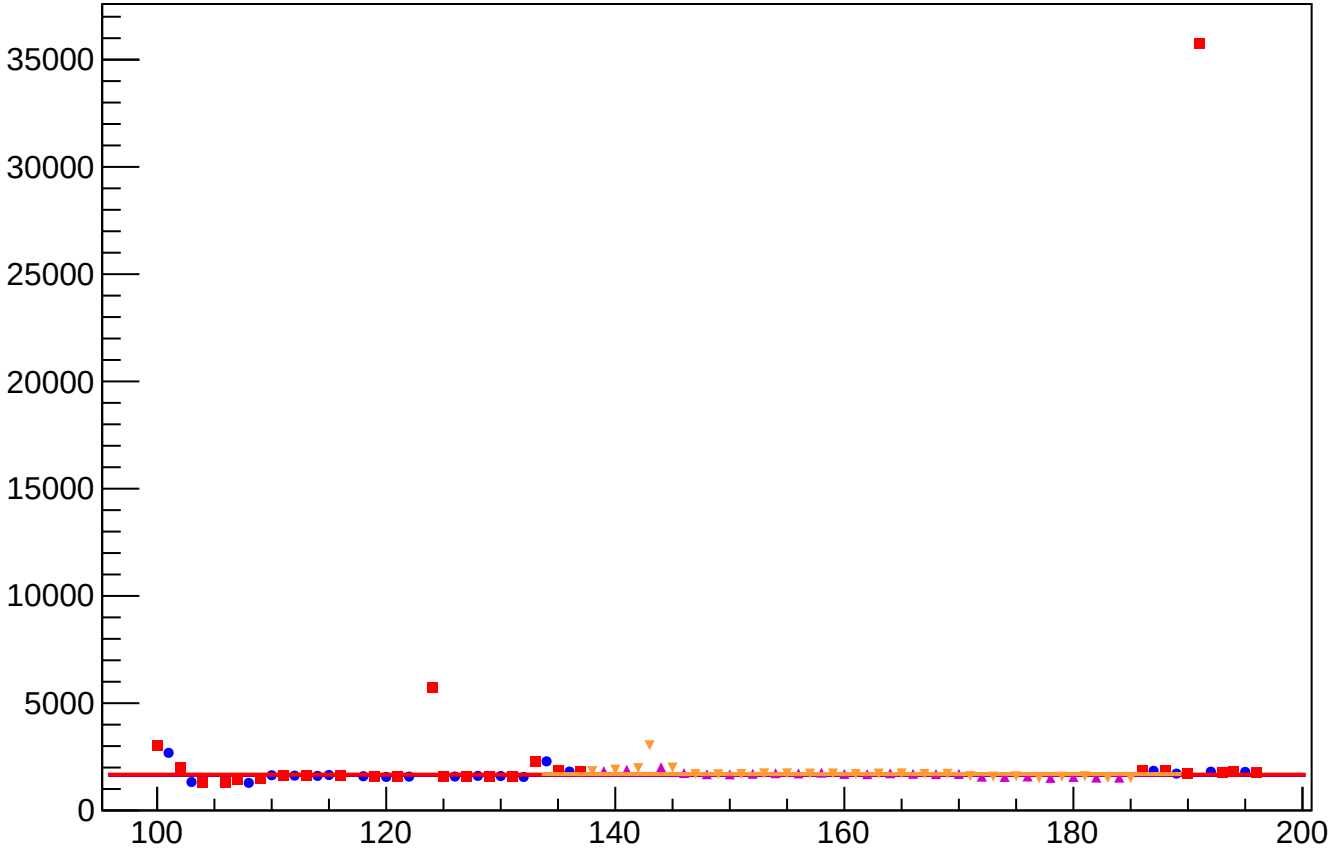
Right: 287.876+/-364.472 $\chi^2$/NDF: 43.5/45

In: 430.812+/-317.307 $\chi^2$/NDF:33.1/42

Out: 121.781+/-306.178 $\chi^2$/NDF:55.6/50

All: 270.783+/-220.330 $\chi^2$/NDF: 89.3/93

# reg_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1653.438+/-0.378 $\chi^2$/NDF: 444236.8/19

Left Out: 1697.496+/-0.274 $\chi^2$/NDF:495397.9/24

Right Out: 1670.055+/-0.352 $\chi^2$/NDF: 653702.0/25

Left In: 1684.577+/-0.279 $\chi^2$/NDF:165355.7/22

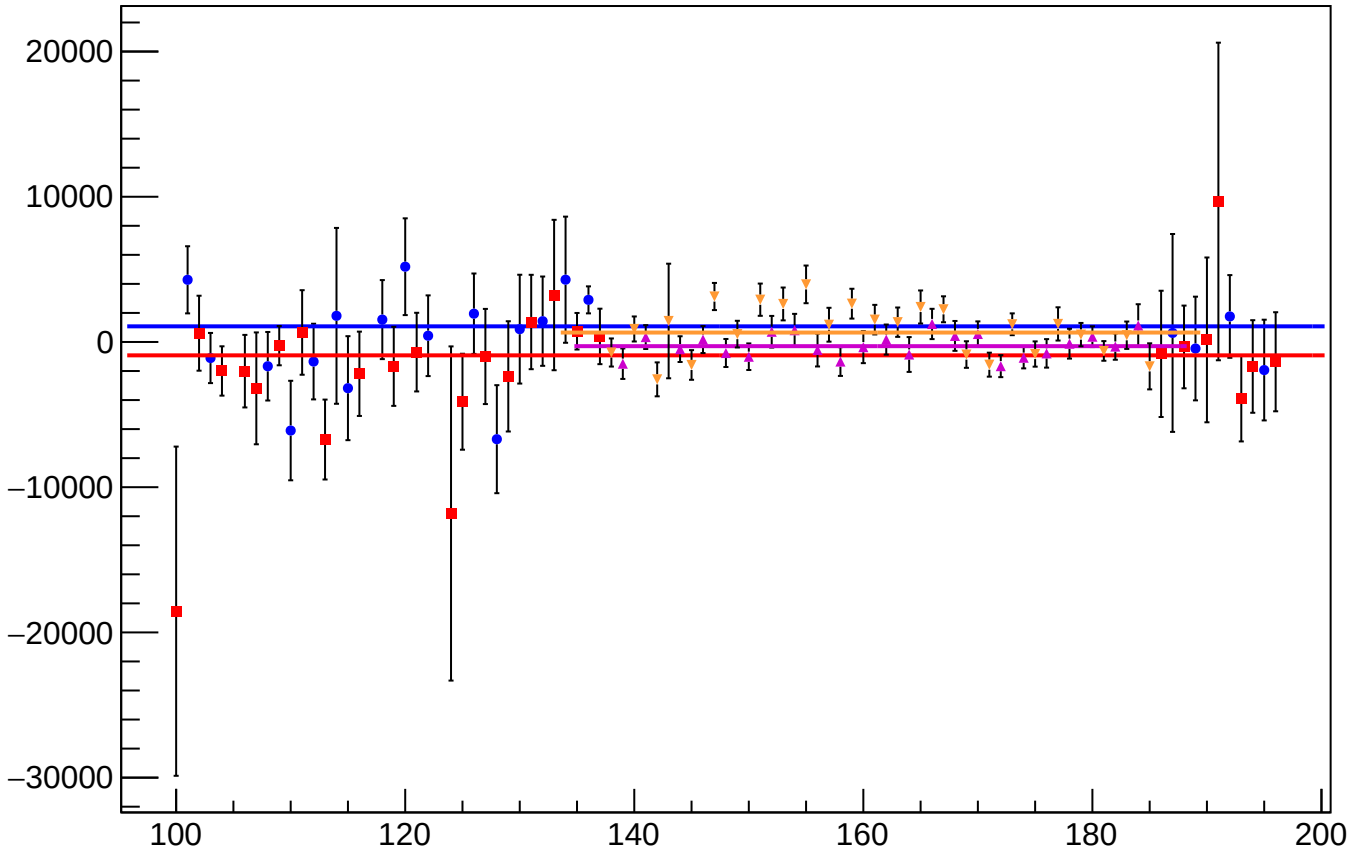
Left: 1691.137+/-0.196 $\chi^2$/NDF: 661844.1/47

Right: 1662.332+/-0.258 $\chi^2$/NDF: 1098973.1/45

In: 1673.608+/-0.224 $\chi^2$/NDF:613987.5/42

Out: 1687.131+/-0.217 $\chi^2$/NDF:1152875.7/50

All: 1680.611+/-0.156 $\chi^2$/NDF: 1768744.4/93




Right In: 1076.325+/-551.418 $\chi^2$/NDF: 23.0/19

Left Out: 649.165+/-195.671 $\chi^2$/NDF:65.5/24

Right Out: -921.051+/-517.700 $\chi^2$/NDF: 16.4/25

Left In: -288.616+/-198.494 $\chi^2$/NDF:16.6/22

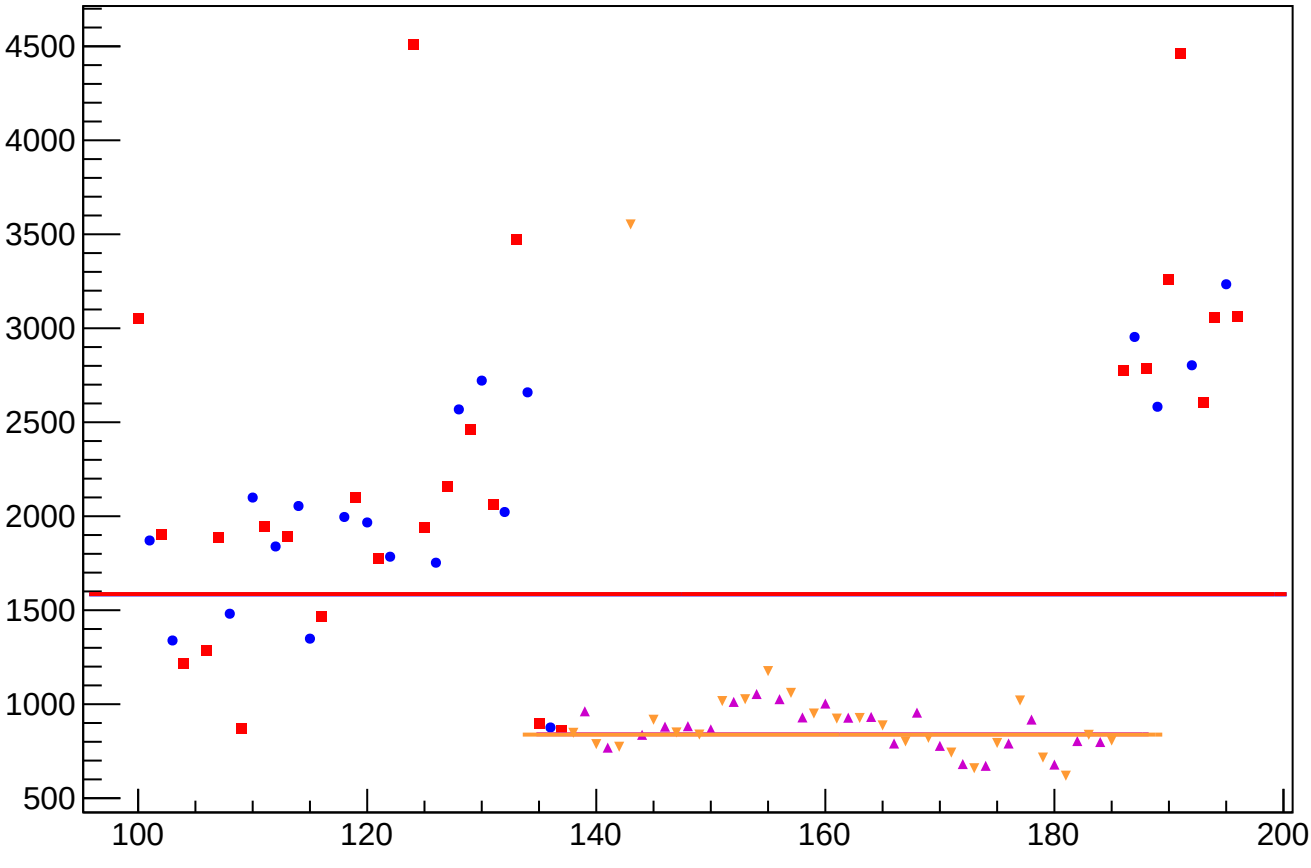
Left: 186.992+/-139.348 $\chi^2$/NDF: 93.4/47

Right: 14.707+/-377.427 $\chi^2$/NDF: 46.3/45

In: -132.038+/-186.762 $\chi^2$/NDF:45.0/42

Out: 452.891+/-183.033 $\chi^2$/NDF:89.9/50

All: 166.325+/-130.723 $\chi^2$/NDF: 139.9/93




Right In: 1584.212+/-0.390 $\chi^2$/NDF: 2952174.2/19

Left Out: 838.243+/-0.138 $\chi^2$/NDF:1800245.5/24

Right Out: 1585.900+/-0.366 $\chi^2$/NDF: 4268589.6/25

Left In: 839.976+/-0.140 $\chi^2$/NDF:669341.7/22

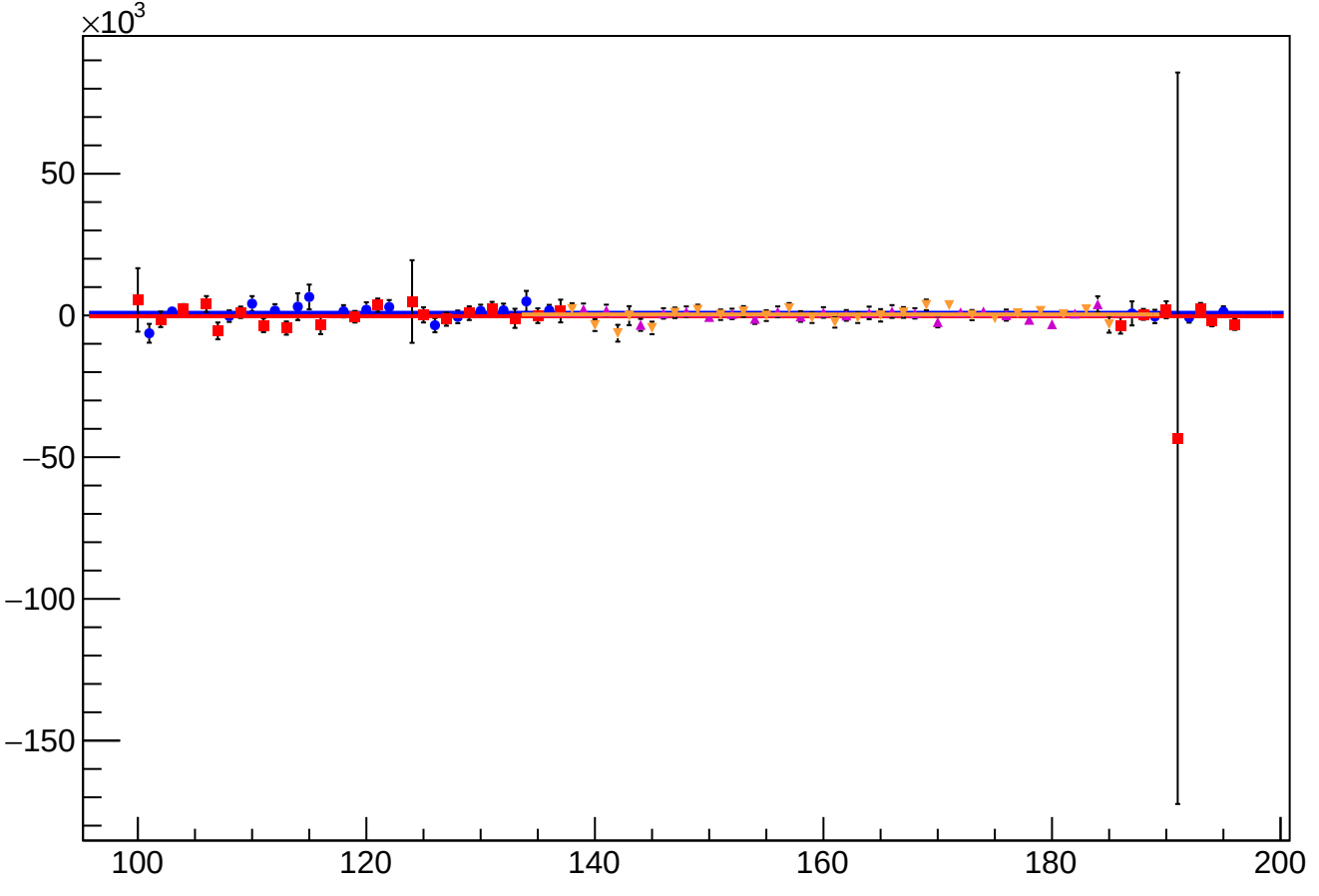
Left: 839.097+/-0.099 $\chi^2$/NDF: 2469664.6/47

Right: 1585.109+/-0.267 $\chi^2$/NDF: 7220773.8/45

In: 925.350+/-0.132 $\chi^2$/NDF:6846840.5/42

Out: 931.698+/-0.129 $\chi^2$/NDF:9718788.8/50

All: 928.588+/-0.092 $\chi^2$/NDF: 16566808.0/93




Right In: 934.208+/-534.620 $\chi^2$/NDF: 15.7/19

Left Out: 361.560+/-388.131 $\chi^2$/NDF:29.6/24

Right Out: -273.626+/-498.188 $\chi^2$/NDF: 25.1/25

Left In: 156.934+/-394.258 $\chi^2$/NDF:16.0/22

Left: 260.849+/-276.591 $\chi^2$/NDF: 45.7/47

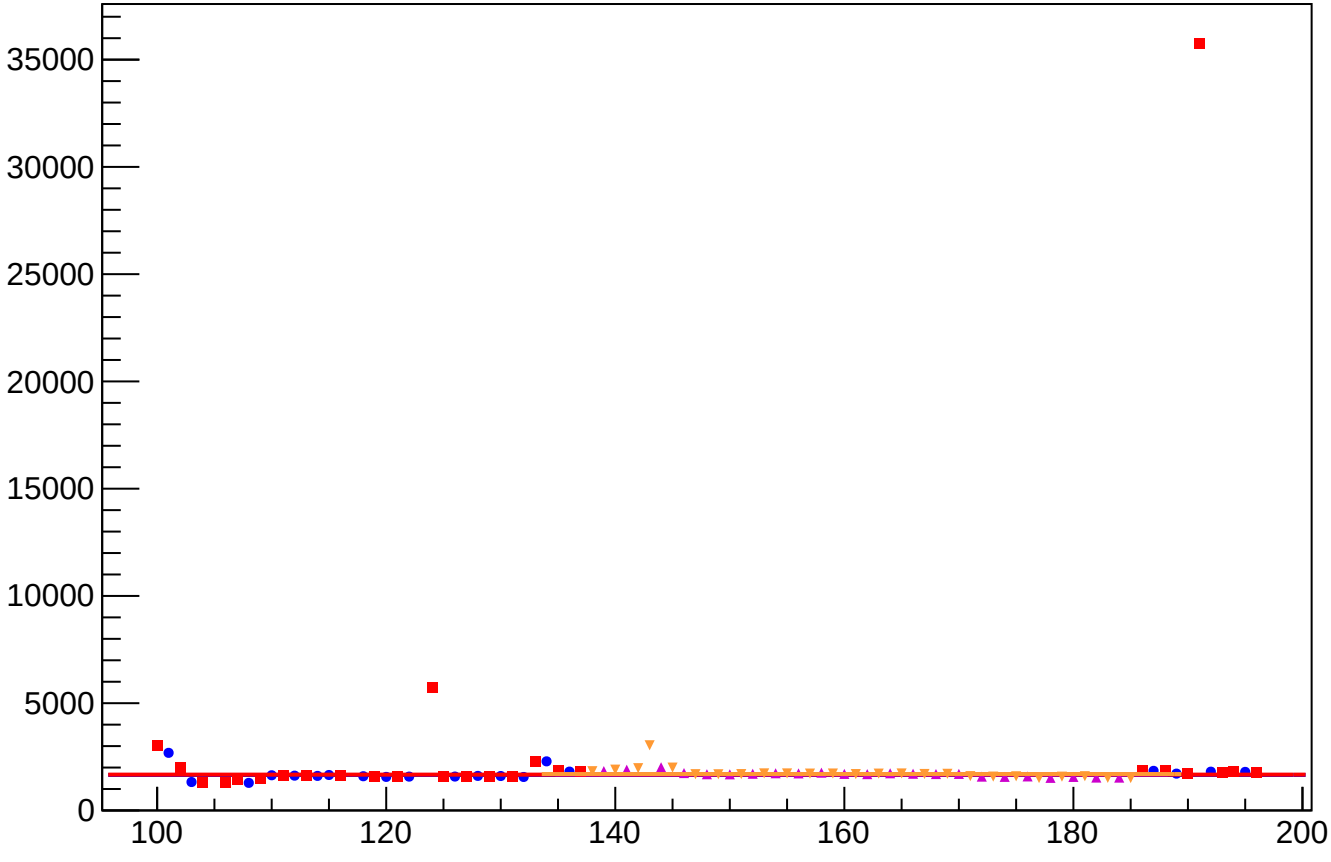
Right: 287.738+/-364.472 $\chi^2$/NDF: 43.5/45

In: 430.740+/-317.307 $\chi^2$/NDF:33.1/42

Out: 121.642+/-306.178 $\chi^2$/NDF:55.6/50

All: 270.676+/-220.330 $\chi^2$/NDF: 89.3/93

# cor_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1653.437+/-0.378 $\chi^2$/NDF: 444237.1/19

Left Out: 1697.496+/-0.274 $\chi^2$/NDF:495397.9/24

Right Out: 1670.055+/-0.352 $\chi^2$/NDF: 653702.1/25

Left In: 1684.577+/-0.279 $\chi^2$/NDF:165355.7/22

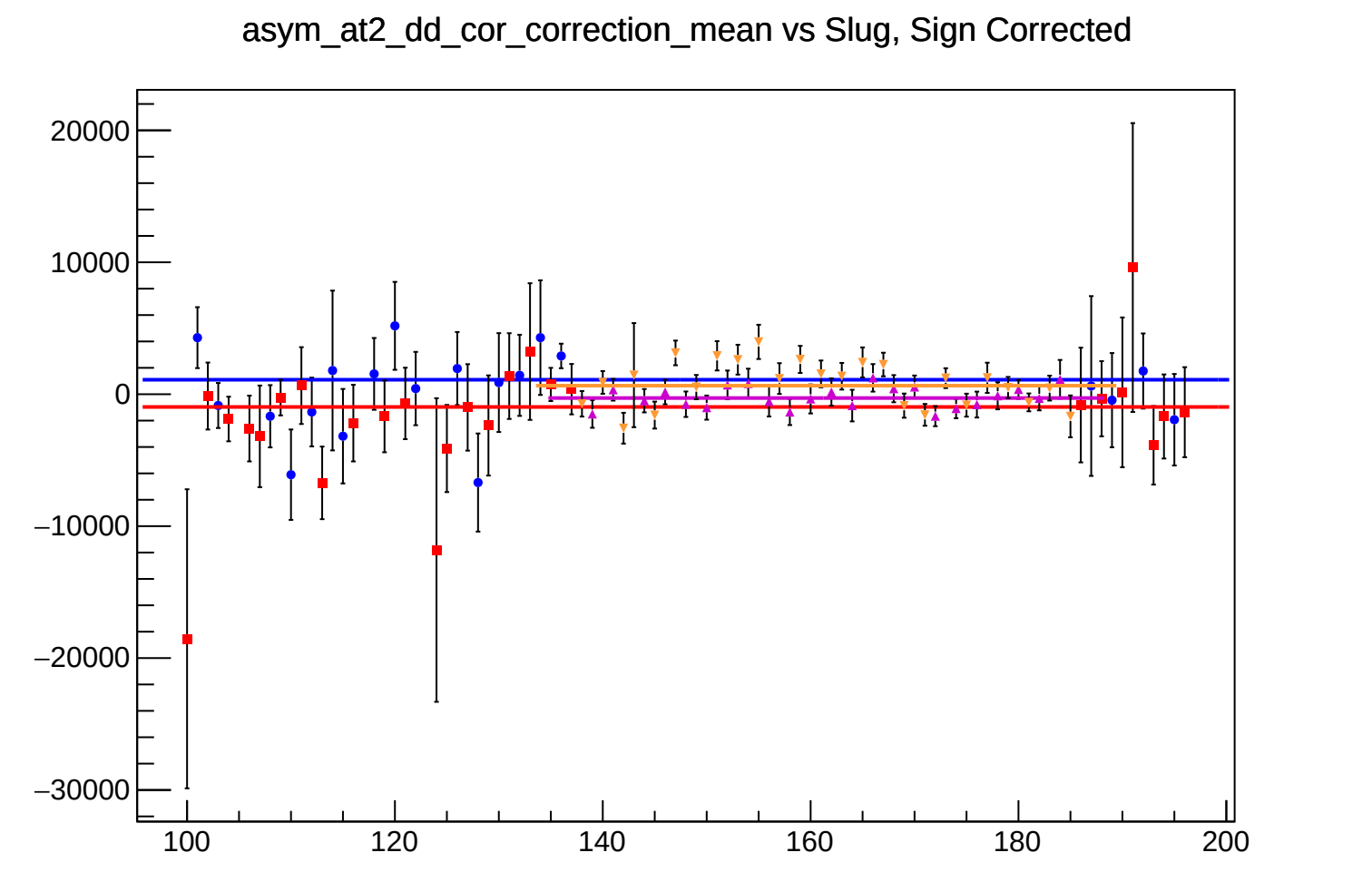
Left: 1691.137+/-0.196 $\chi^2$/NDF: 661844.0/47

Right: 1662.332+/-0.258 $\chi^2$/NDF: 1098973.5/45

In: 1673.608+/-0.224 $\chi^2$/NDF:613987.8/42

Out: 1687.131+/-0.217 $\chi^2$/NDF:1152875.9/50

All: 1680.611+/-0.156 $\chi^2$/NDF: 1768744.9/93




Right In: 1097.325+/-550.708 $\chi^2$/NDF: 22.7/19

Left Out: 649.165+/-195.673 $\chi^2$/NDF:65.5/24

Right Out: -965.607+/-517.083 $\chi^2$/NDF: 16.3/25

Left In: -288.602+/-198.495 $\chi^2$/NDF:16.6/22

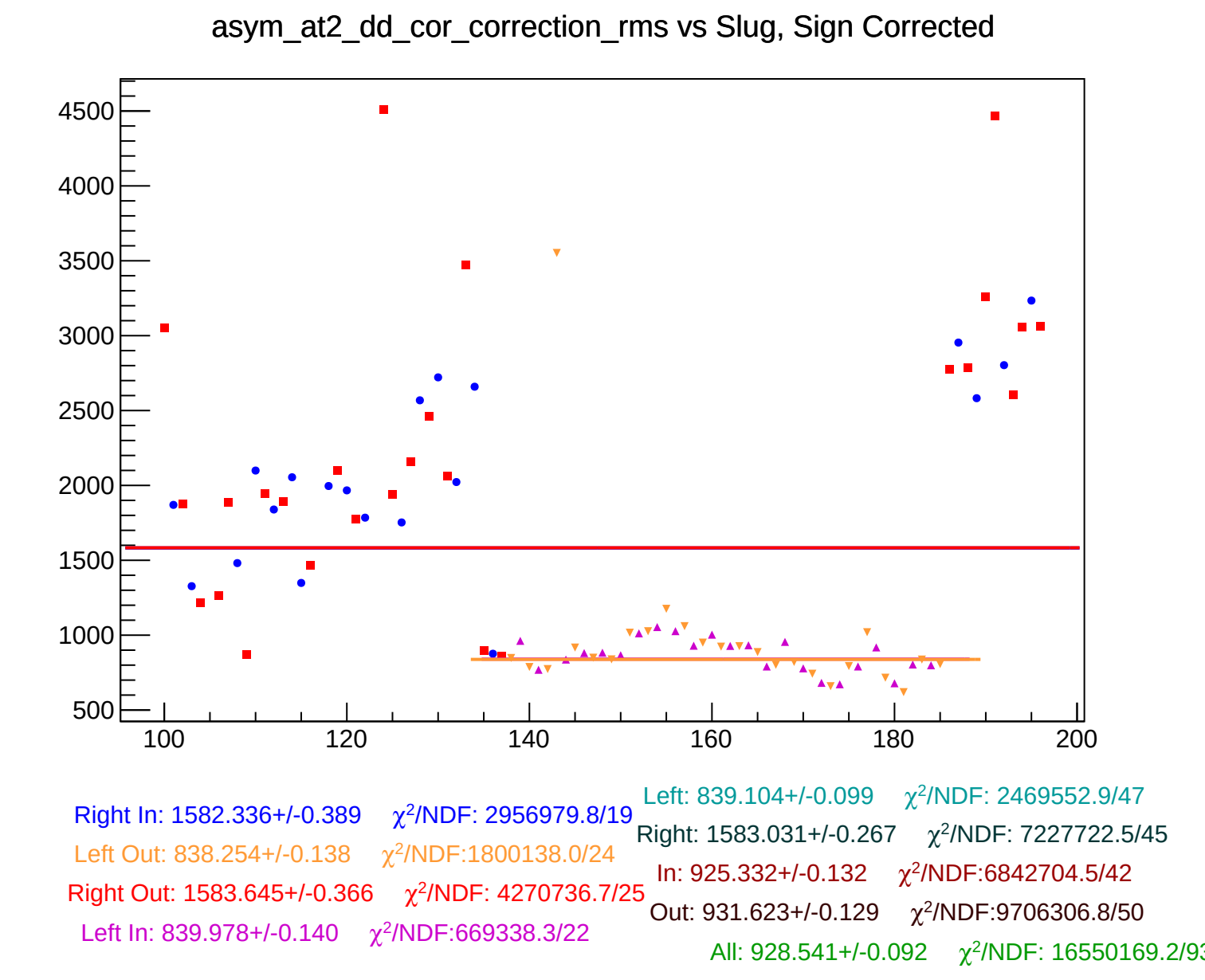
Left: 186.994+/-139.349 $\chi^2$/NDF: 93.4/47

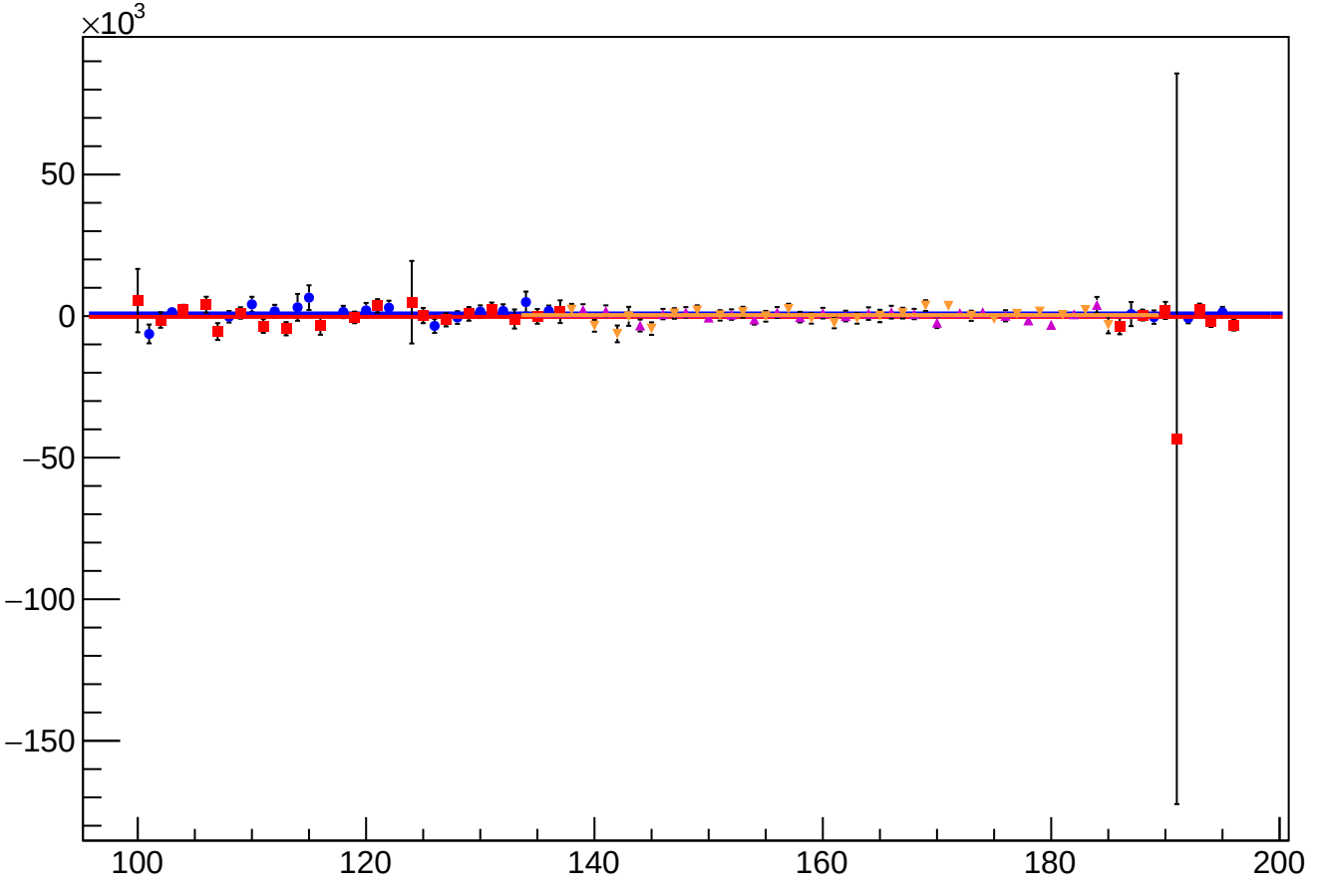
Right: 0.961+/-376.960 $\chi^2$/NDF: 46.4/45

In: -129.253+/-186.735 $\chi^2$/NDF:44.9/42

Out: 446.895+/-183.008 $\chi^2$/NDF:90.3/50

All: 164.629+/-130.704 $\chi^2$/NDF: 140.0/93


asym_at2_dd_cor_correction_rms vs Slug, Sign Corrected
4500
4000
3500
3000
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 1582.336+/-0.389 χ²/NDF: 2956979.8/19
Left Out: 838.254+/-0.138 χ²/NDF:1800138.0/24
Right Out: 1583.645+/-0.366 χ²/NDF: 4270736.7/25
Left In: 839.978+/-0.140 χ²/NDF:669338.3/22
Left: 839.104+/-0.099 χ²/NDF: 2469552.9/47
Right: 1583.031+/-0.267 χ²/NDF: 7227722.5/45
In: 925.332+/-0.132 χ²/NDF:6842704.5/42
Out: 931.623+/-0.129 χ²/NDF:9706306.8/50
All: 928.541+/-0.092 χ²/NDF: 16550169.2/93




Right In: 934.208+/-534.620 $\chi^2$/NDF: 15.7/19

Left Out: 361.560+/-388.131 $\chi^2$/NDF:29.6/24

Right Out: -273.626+/-498.188 $\chi^2$/NDF: 25.1/25

Left In: 156.934+/-394.258 $\chi^2$/NDF:16.0/22

Left: 260.849+/-276.591 $\chi^2$/NDF: 45.7/47

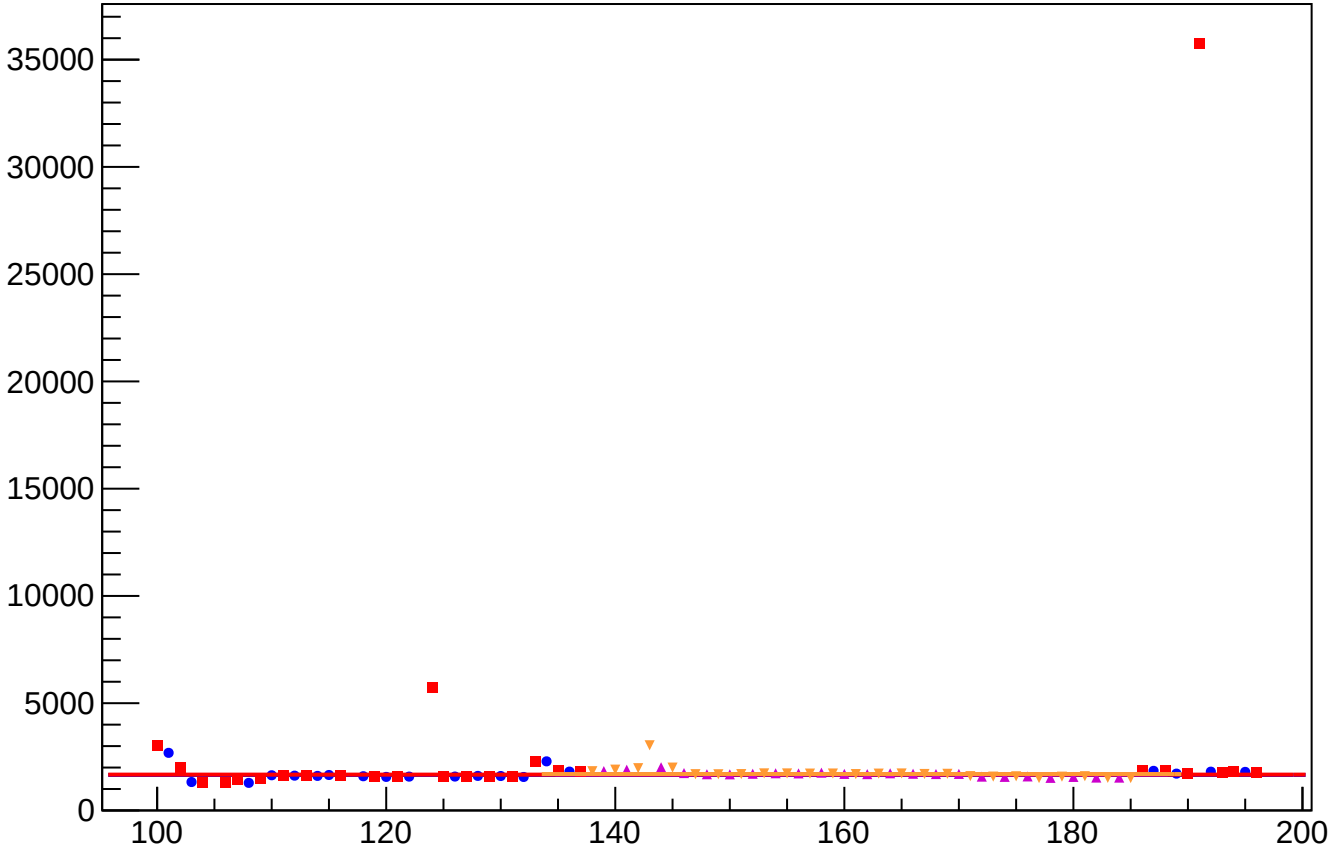
Right: 287.738+/-364.472 $\chi^2$/NDF: 43.5/45

In: 430.740+/-317.307 $\chi^2$/NDF:33.1/42

Out: 121.642+/-306.178 $\chi^2$/NDF:55.6/50

All: 270.676+/-220.330 $\chi^2$/NDF: 89.3/93

# eigen_cor_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1653.437+/-0.378 $\chi^2$/NDF: 444237.1/19

Left Out: 1697.496+/-0.274 $\chi^2$/NDF:495397.9/24

Right Out: 1670.055+/-0.352 $\chi^2$/NDF: 653702.1/25

Left In: 1684.577+/-0.279 $\chi^2$/NDF:165355.7/22

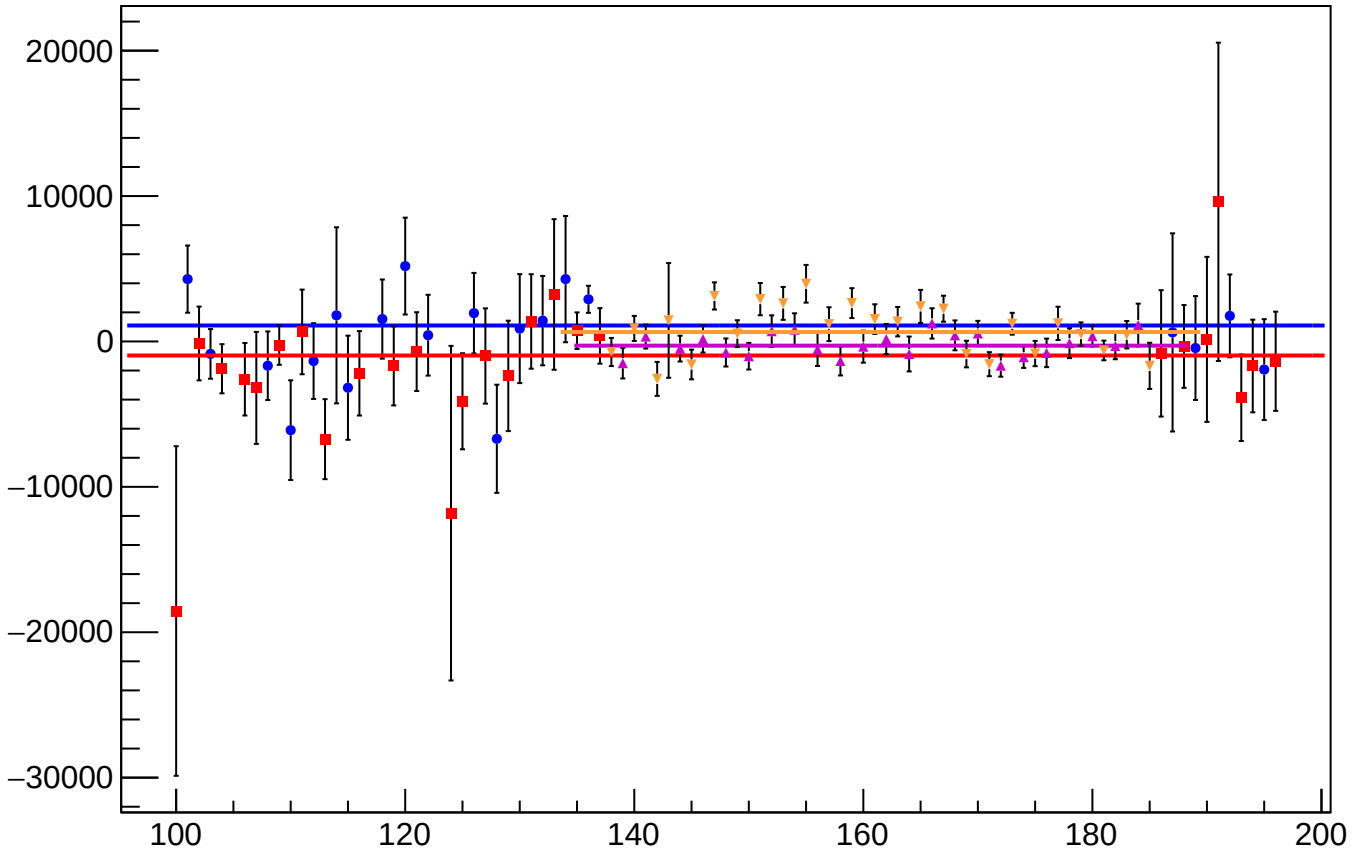
Left: 1691.137+/-0.196 $\chi^2$/NDF: 661844.0/47

Right: 1662.332+/-0.258 $\chi^2$/NDF: 1098973.5/45

In: 1673.608+/-0.224 $\chi^2$/NDF:613987.8/42

Out: 1687.131+/-0.217 $\chi^2$/NDF:1152875.9/50

All: 1680.611+/-0.156 $\chi^2$/NDF: 1768744.9/93




Right In: 1097.325+/-550.708 $\chi^2$/NDF: 22.7/19

Left Out: 649.165+/-195.673 $\chi^2$/NDF:65.5/24

Right Out: -965.607+/-517.083 $\chi^2$/NDF: 16.3/25

Left In: -288.602+/-198.495 $\chi^2$/NDF:16.6/22

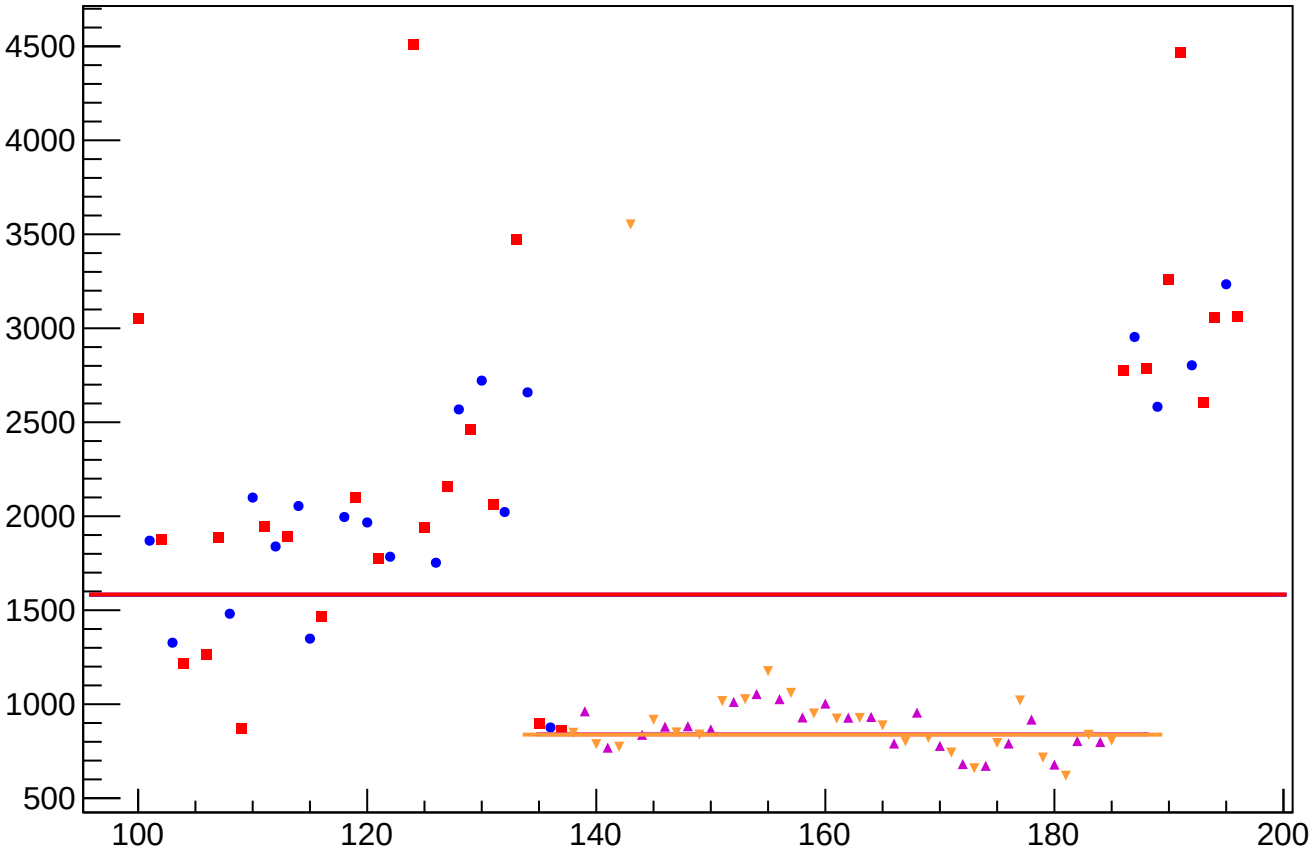
Left: 186.994+/-139.349 $\chi^2$/NDF: 93.4/47

Right: 0.961+/-376.960 $\chi^2$/NDF: 46.4/45

In: -129.253+/-186.735 $\chi^2$/NDF:44.9/42

Out: 446.895+/-183.008 $\chi^2$/NDF:90.3/50

All: 164.629+/-130.704 $\chi^2$/NDF: 140.0/93




Right In: 1582.336+/-0.389 $\chi^2$/NDF: 2956979.8/19

Left Out: 838.254+/-0.138 $\chi^2$/NDF:1800138.0/24

Right Out: 1583.645+/-0.366 $\chi^2$/NDF: 4270736.7/25

Left In: 839.978+/-0.140 $\chi^2$/NDF:669338.3/22

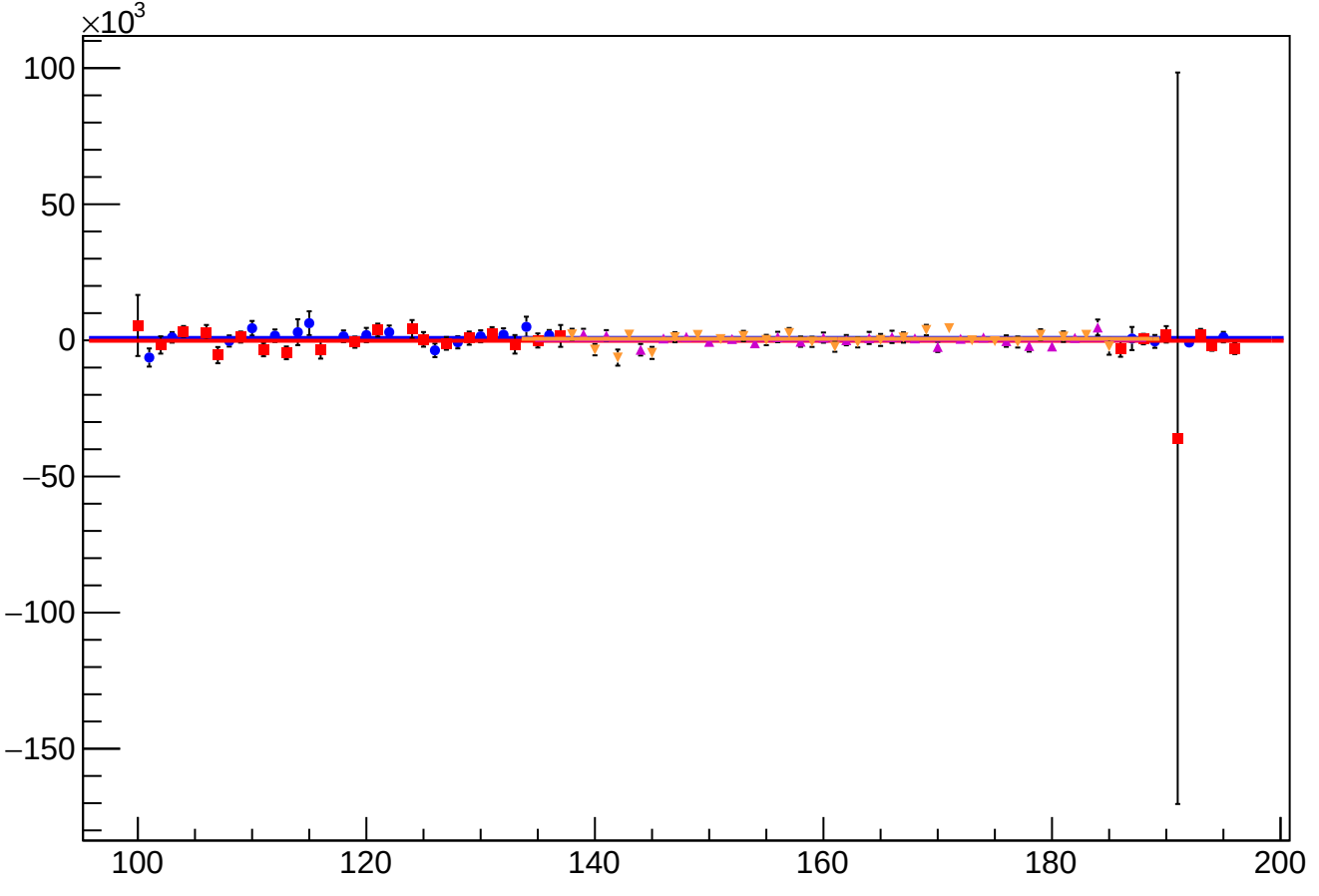
Left: 839.104+/-0.099 $\chi^2$/NDF: 2469552.9/47

Right: 1583.031+/-0.267 $\chi^2$/NDF: 7227722.5/45

In: 925.332+/-0.132 $\chi^2$/NDF:6842704.5/42

Out: 931.623+/-0.129 $\chi^2$/NDF:9706306.8/50

All: 928.541+/-0.092 $\chi^2$/NDF: 16550169.2/93




Right In: 880.421+/-540.357 $\chi^2$/NDF: 16.3/19

Left Out: 580.299+/-389.769 $\chi^2$/NDF:31.9/24

Right Out: -144.298+/-498.374 $\chi^2$/NDF: 27.0/25

Left In: 185.836+/-404.094 $\chi^2$/NDF:14.4/22

Left: 390.183+/-280.536 $\chi^2$/NDF: 46.9/47

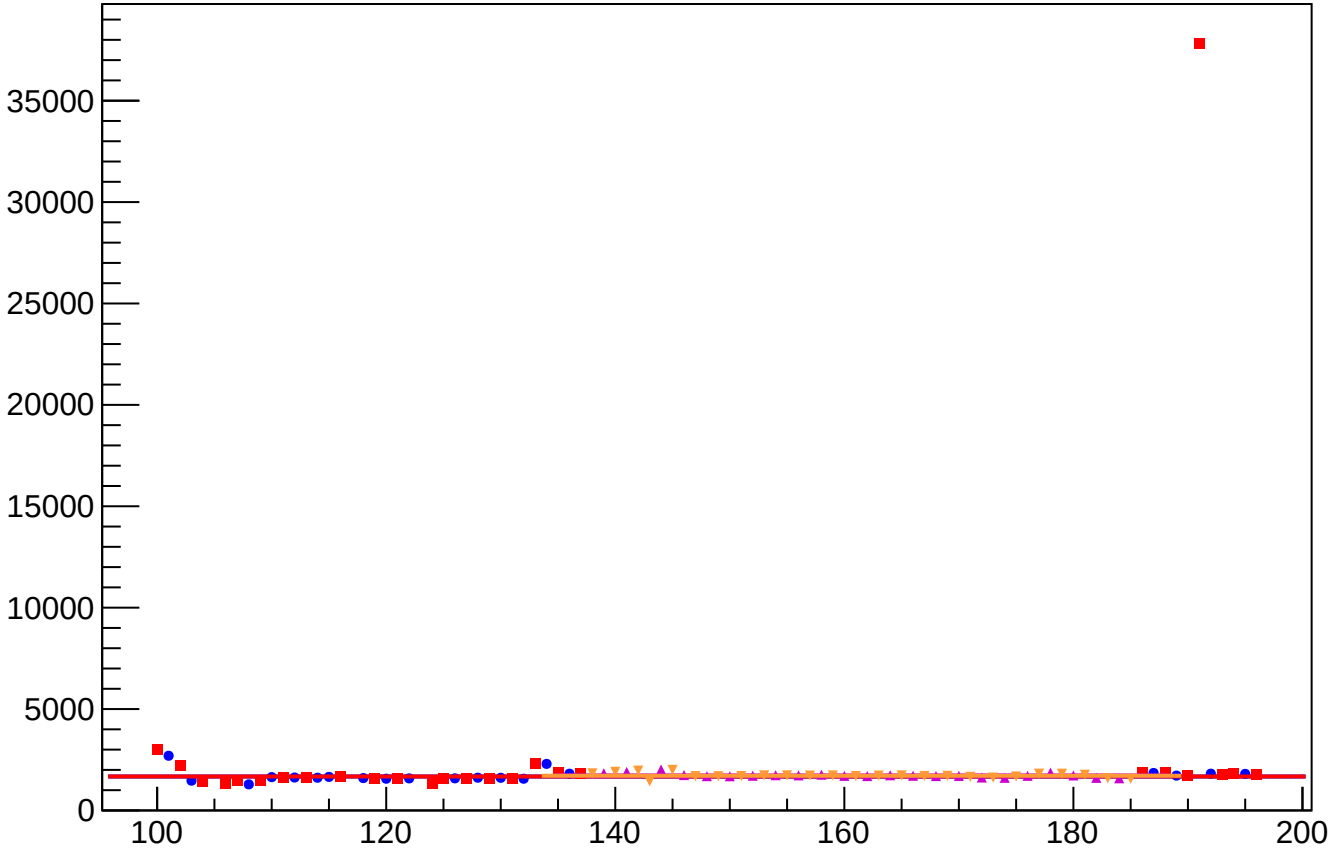
Right: 326.713+/-366.348 $\chi^2$/NDF: 45.3/45

In: 434.959+/-323.612 $\chi^2$/NDF:31.8/42

Out: 305.301+/-307.024 $\chi^2$/NDF:60.3/50

All: 366.722+/-222.732 $\chi^2$/NDF: 92.1/93

# dit_asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 1673.436+/-0.382 $\chi^2$/NDF: 392898.4/19

Left Out: 1711.712+/-0.276 $\chi^2$/NDF:168006.4/24

Right Out: 1675.573+/-0.352 $\chi^2$/NDF: 512800.4/25

Left In: 1727.912+/-0.286 $\chi^2$/NDF:100226.8/22

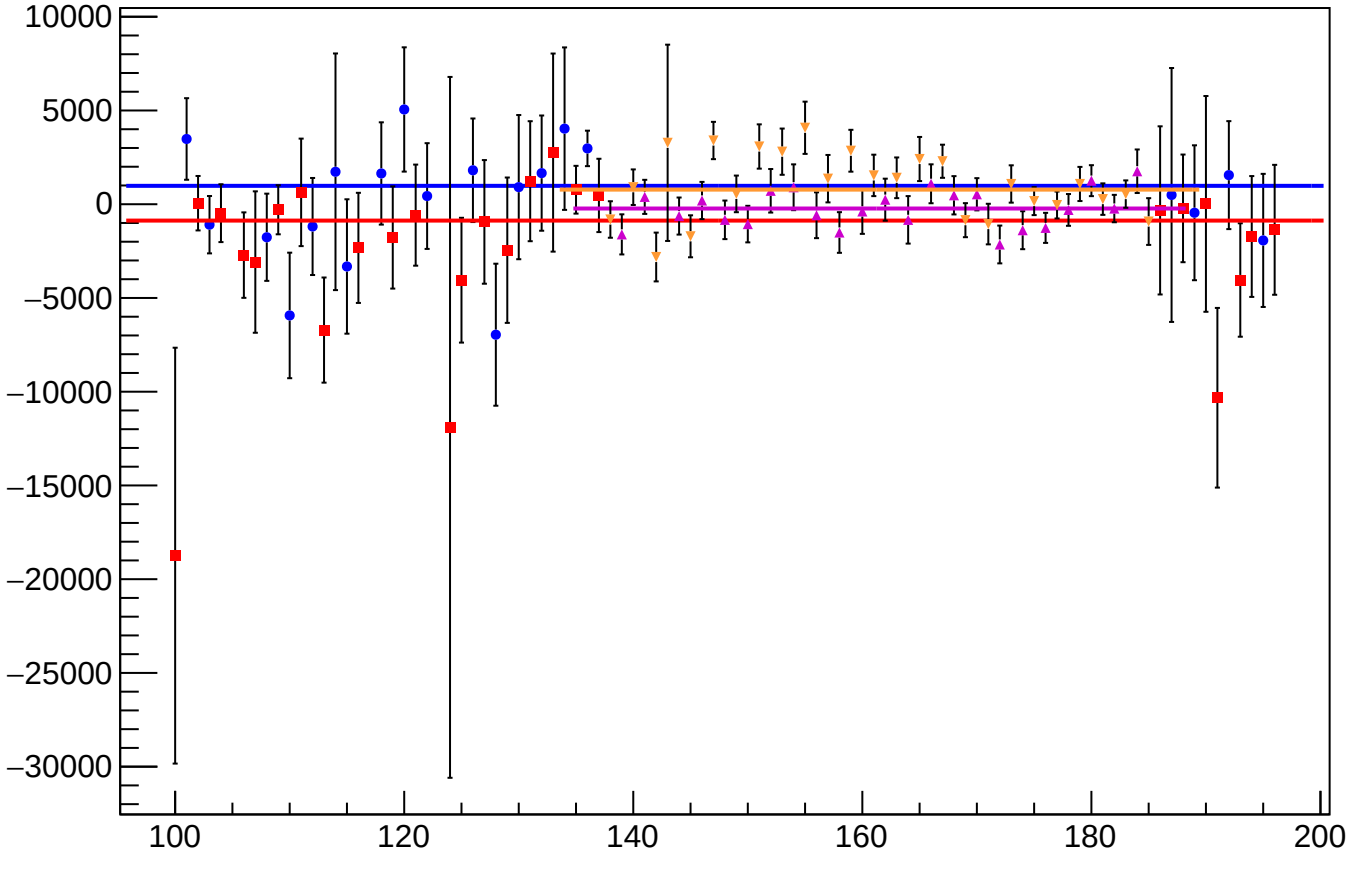
Left: 1719.520+/-0.198 $\chi^2$/NDF: 269898.5/47

Right: 1674.590+/-0.259 $\chi^2$/NDF: 905715.6/45

In: 1708.373+/-0.229 $\chi^2$/NDF:506162.2/42

Out: 1697.996+/-0.217 $\chi^2$/NDF:687332.0/50

All: 1702.912+/-0.157 $\chi^2$/NDF: 1194576.6/93




Right In: 980.905+/-545.580 $\chi^2$/NDF: 22.9/19

Left Out: 778.974+/-201.641 $\chi^2$/NDF:54.5/24

Right Out: -872.638+/-488.948 $\chi^2$/NDF: 18.9/25

Left In: -228.879+/-206.703 $\chi^2$/NDF:22.6/22

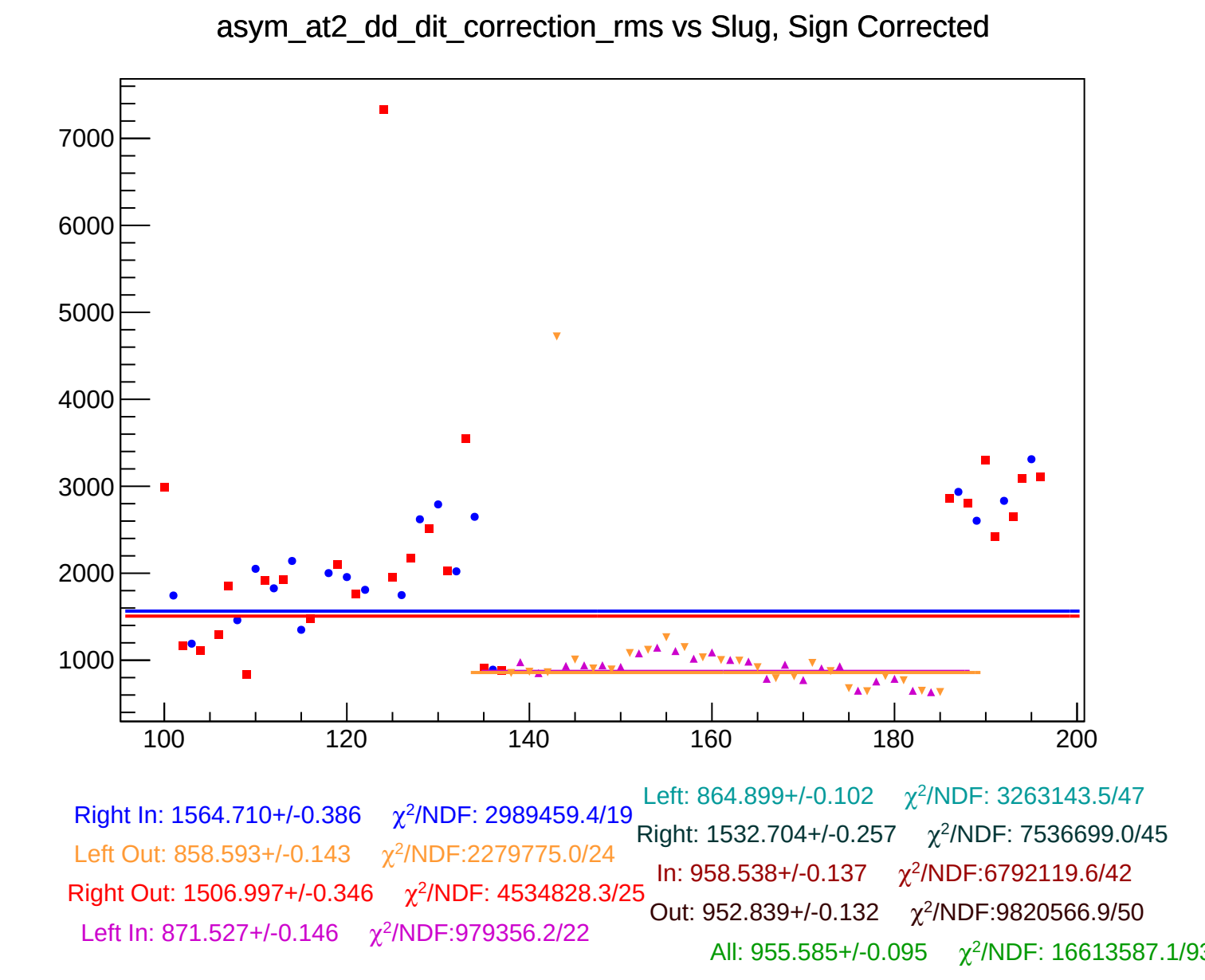
Left: 287.540+/-144.338 $\chi^2$/NDF: 89.3/47

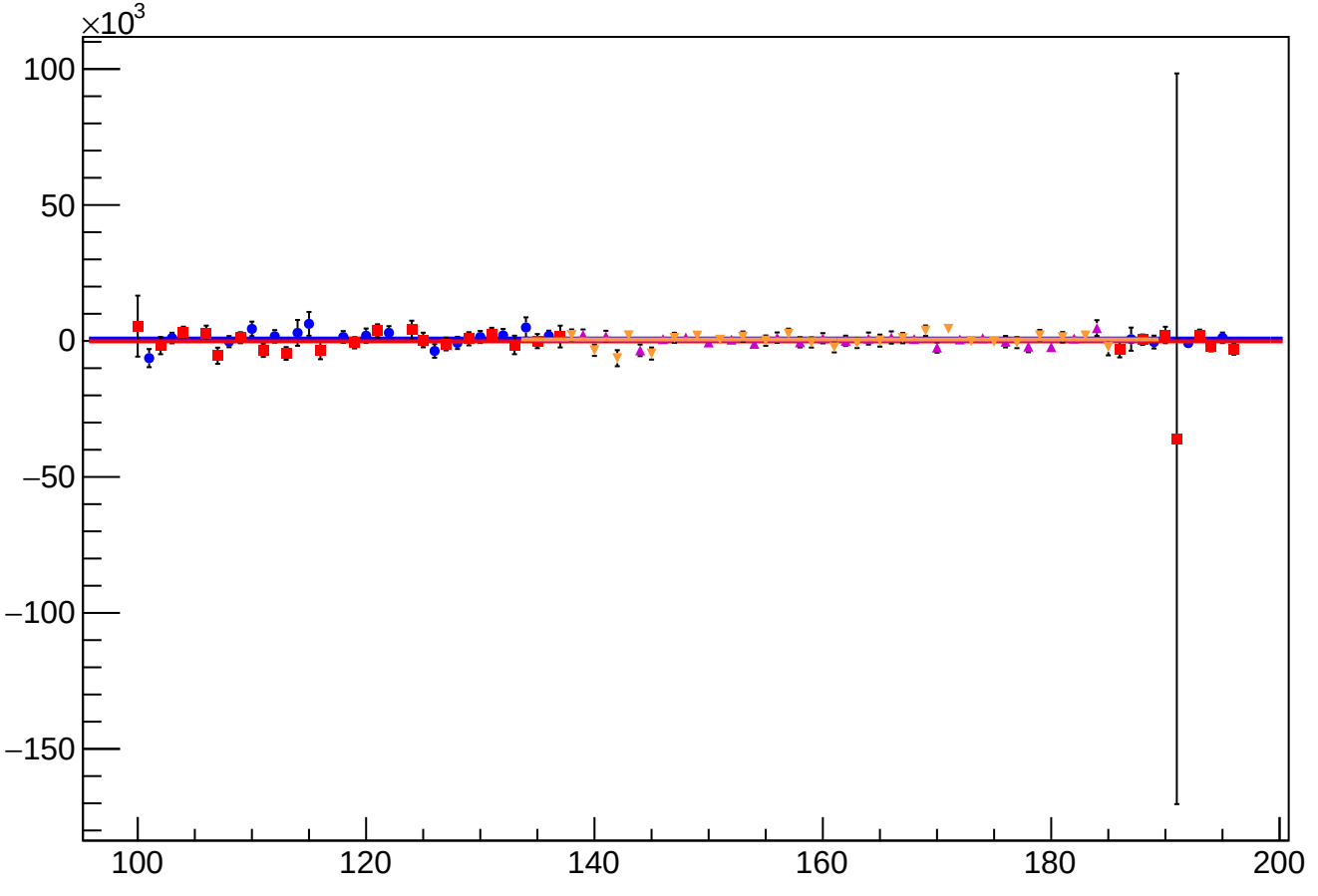
Right: -47.029+/-364.120 $\chi^2$/NDF: 48.2/45

In: -77.022+/-193.295 $\chi^2$/NDF:49.8/42

Out: 538.910+/-186.411 $\chi^2$/NDF:83.2/50

All: 242.107+/-134.180 $\chi^2$/NDF: 138.3/93


asym_at2_dd_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 1564.710+/-0.386 χ²/NDF: 2989459.4/19
Left Out: 858.593+/-0.143 χ²/NDF:2279775.0/24
Right Out: 1506.997+/-0.346 χ²/NDF: 4534828.3/25
Left In: 871.527+/-0.146 χ²/NDF:979356.2/22
Left: 864.899+/-0.102 χ²/NDF: 3263143.5/47
Right: 1532.704+/-0.257 χ²/NDF: 7536699.0/45
In: 958.538+/-0.137 χ²/NDF:6792119.6/42
Out: 952.839+/-0.132 χ²/NDF:9820566.9/50
All: 955.585+/-0.095 χ²/NDF: 16613587.1/93




Right In: 880.422+/-540.357 $\chi^2$/NDF: 16.3/19

Left Out: 580.295+/-389.769 $\chi^2$/NDF:31.9/24

Right Out: -144.297+/-498.374 $\chi^2$/NDF: 27.0/25

Left In: 185.837+/-404.094 $\chi^2$/NDF:14.4/22

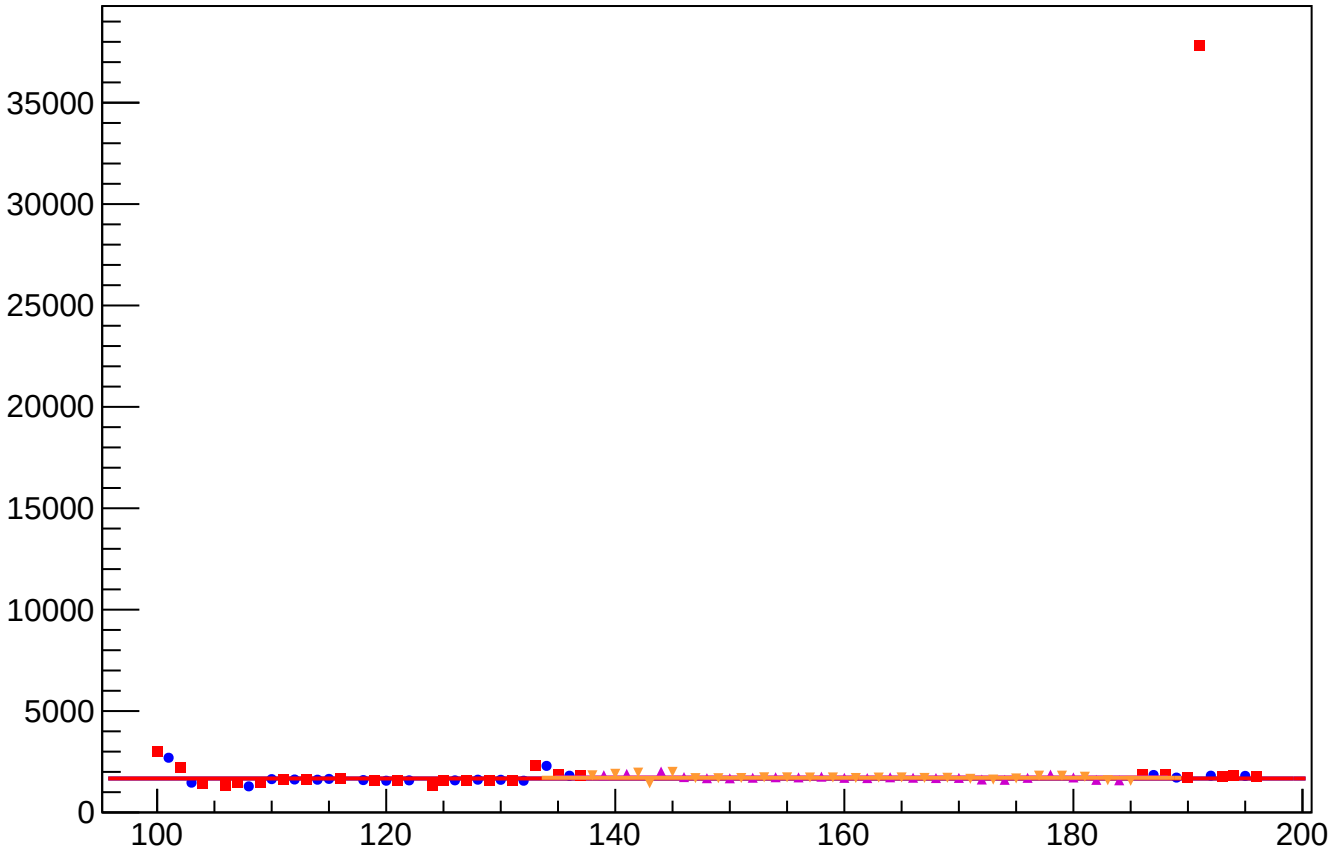
Left: 390.181+/-280.536 $\chi^2$/NDF: 46.9/47

Right: 326.714+/-366.348 $\chi^2$/NDF: 45.3/45

In: 434.960+/-323.612 $\chi^2$/NDF:31.8/42

Out: 305.299+/-307.023 $\chi^2$/NDF:60.3/50

All: 366.721+/-222.732 $\chi^2$/NDF: 92.1/93




Right In: 1673.435+/-0.382 $\chi^2$/NDF: 392898.2/19

Left Out: 1711.711+/-0.276 $\chi^2$/NDF:168005.1/24

Right Out: 1675.573+/-0.352 $\chi^2$/NDF: 512800.6/25

Left In: 1727.912+/-0.286 $\chi^2$/NDF:100226.8/22

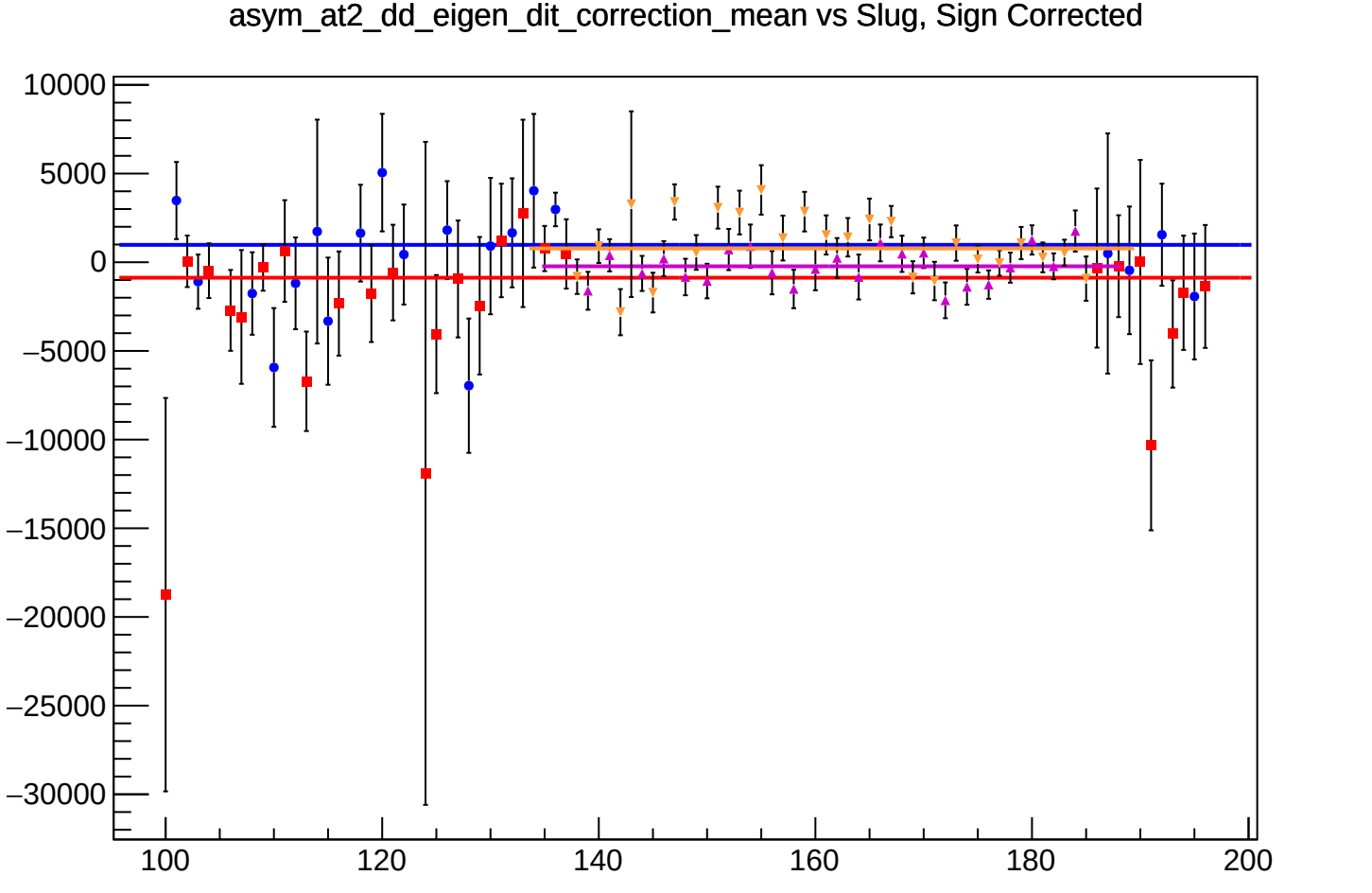
Left: 1719.519+/-0.198 $\chi^2$/NDF: 269897.2/47

Right: 1674.590+/-0.259 $\chi^2$/NDF: 905715.7/45

In: 1708.373+/-0.229 $\chi^2$/NDF:506161.8/42

Out: 1697.996+/-0.217 $\chi^2$/NDF:687331.0/50

All: 1702.912+/-0.157 $\chi^2$/NDF: 1194575.2/93




Right In: 980.894+/-545.583 $\chi^2$/NDF: 22.9/19

Left Out: 778.977+/-201.641 $\chi^2$/NDF:54.5/24

Right Out: -872.653+/-488.951 $\chi^2$/NDF: 18.9/25

Left In: -228.876+/-206.703 $\chi^2$/NDF:22.6/22

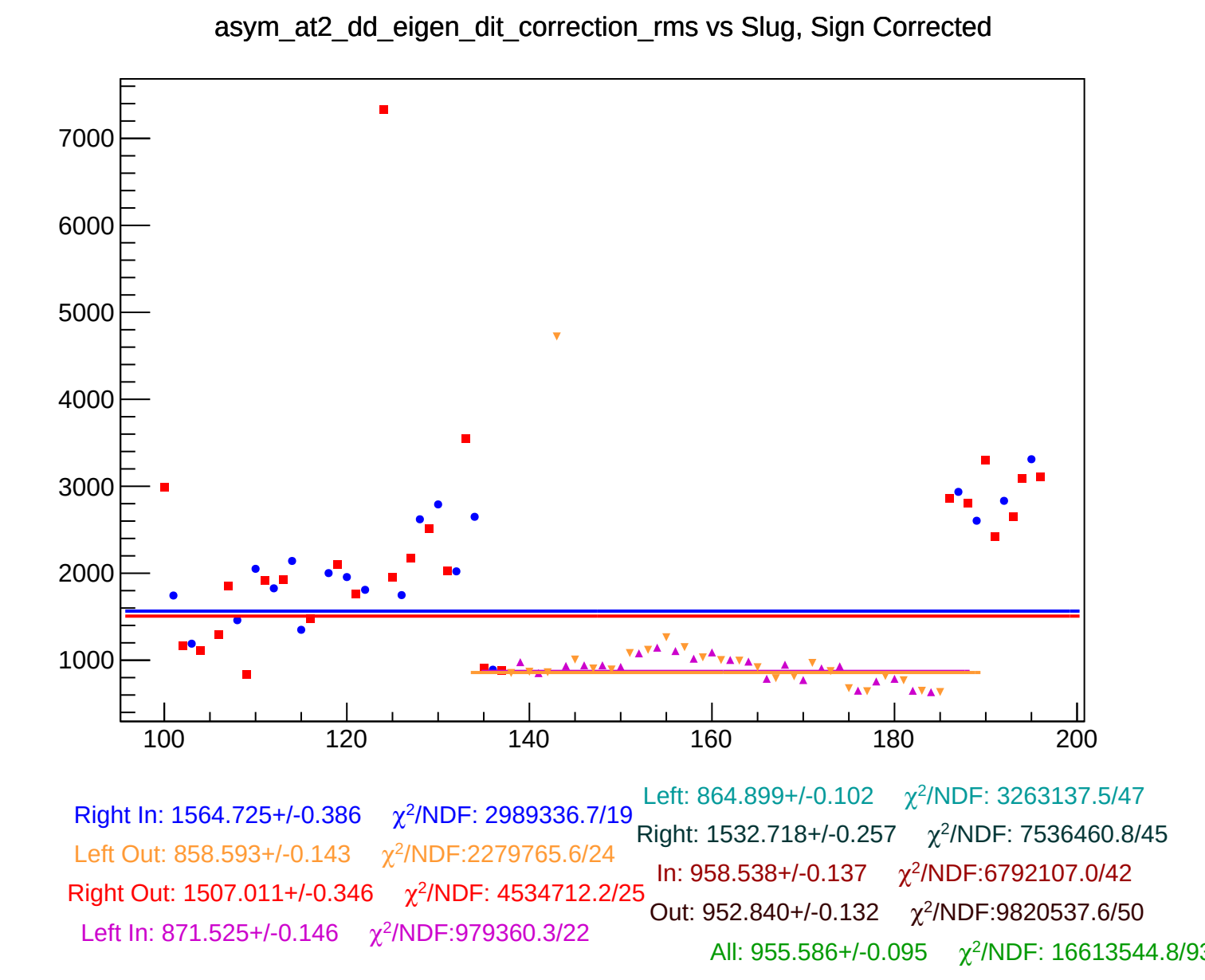
Left: 287.542+/-144.338 $\chi^2$/NDF: 89.3/47

Right: -47.042+/-364.122 $\chi^2$/NDF: 48.2/45

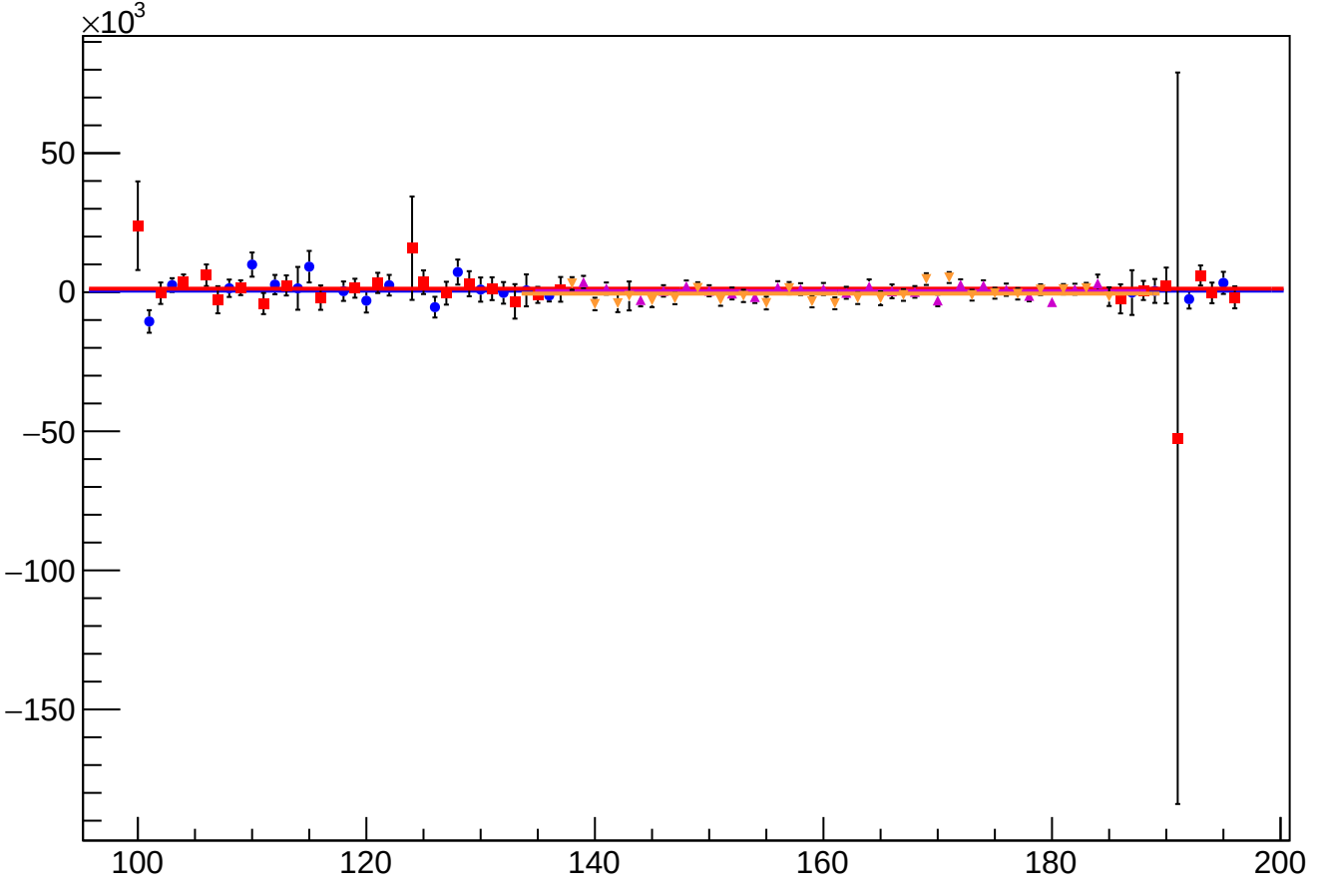
In: -77.023+/-193.295 $\chi^2$/NDF:49.8/42

Out: 538.912+/-186.412 $\chi^2$/NDF:83.2/50

All: 242.107+/-134.181 $\chi^2$/NDF: 138.3/93


asym_at2_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 1564.725+/-0.386 χ²/NDF: 2989336.7/19
Left Out: 858.593+/-0.143 χ²/NDF:2279765.6/24
Right Out: 1507.011+/-0.346 χ²/NDF: 4534712.2/25
Left In: 871.525+/-0.146 χ²/NDF:979360.3/22
Left: 864.899+/-0.102 χ²/NDF: 3263137.5/47
Right: 1532.718+/-0.257 χ²/NDF: 7536460.8/45
In: 958.538+/-0.137 χ²/NDF:6792107.0/42
Out: 952.840+/-0.132 χ²/NDF:9820537.6/50
All: 955.586+/-0.095 χ²/NDF: 16613544.8/93

# asym_at2_dd_mean vs Slug, Sign Corrected




Right In: 570.860+/-836.638 $\chi^2$/NDF: 23.3/19

Left Out: -501.517+/-439.916 $\chi^2$/NDF:35.9/24

Right Out: 1260.588+/-785.824 $\chi^2$/NDF: 14.1/25

Left In: 411.323+/-444.573 $\chi^2$/NDF:18.9/22

Left: -49.903+/-312.701 $\chi^2$/NDF: 56.9/47

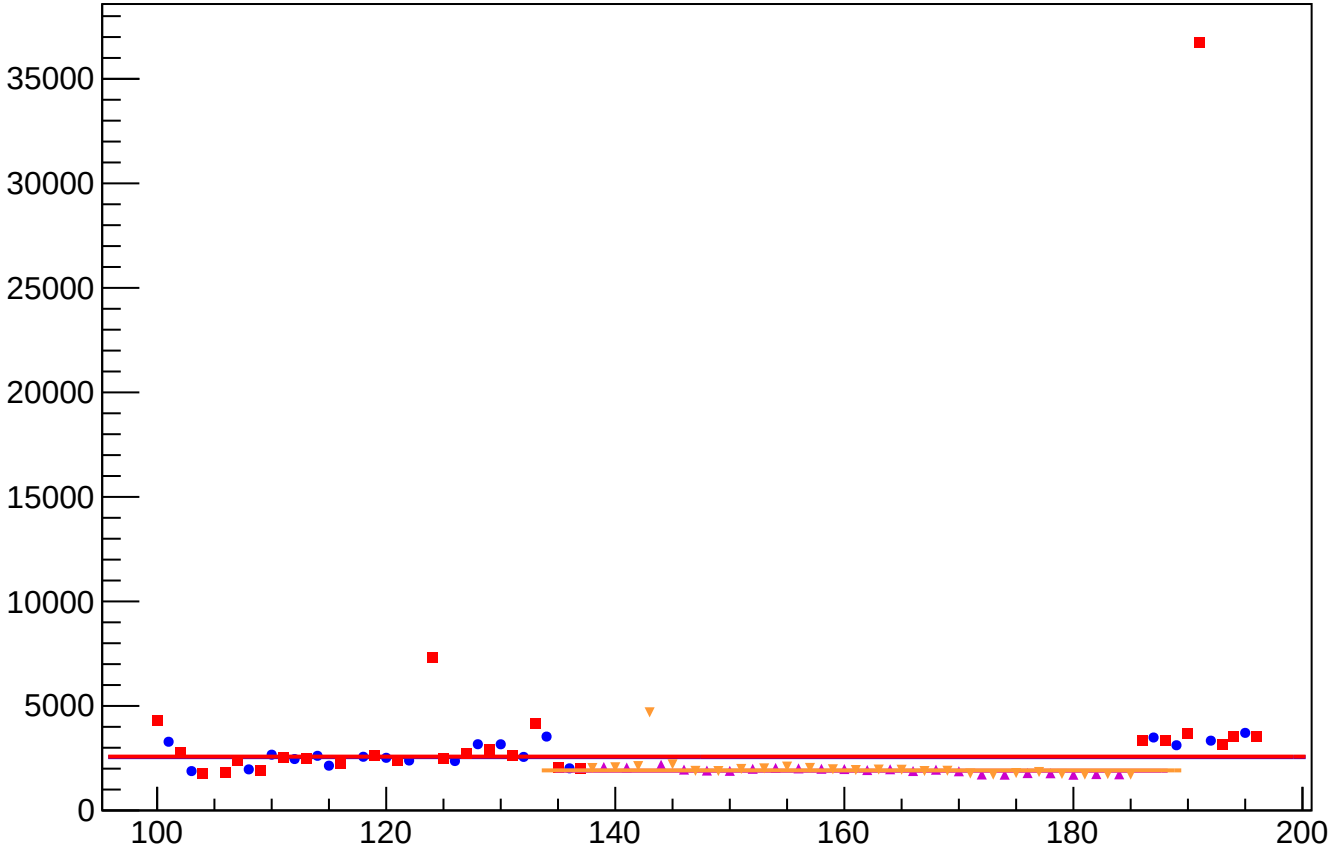
Right: 937.305+/-572.783 $\chi^2$/NDF: 37.7/45

In: 446.452+/-392.588 $\chi^2$/NDF:42.2/42

Out: -81.055+/-383.860 $\chi^2$/NDF:53.8/50

All: 176.769+/-274.464 $\chi^2$/NDF: 96.9/93

# asym_at2_dd_rms vs Slug, Sign Corrected




Right In: 2551.238+/-0.592 $\chi^2$/NDF: 906718.2/19

Left Out: 1917.157+/-0.311 $\chi^2$/NDF:756385.6/24

Right Out: 2575.596+/-0.556 $\chi^2$/NDF: 1499864.3/25

Left In: 1899.245+/-0.314 $\chi^2$/NDF:173376.4/22

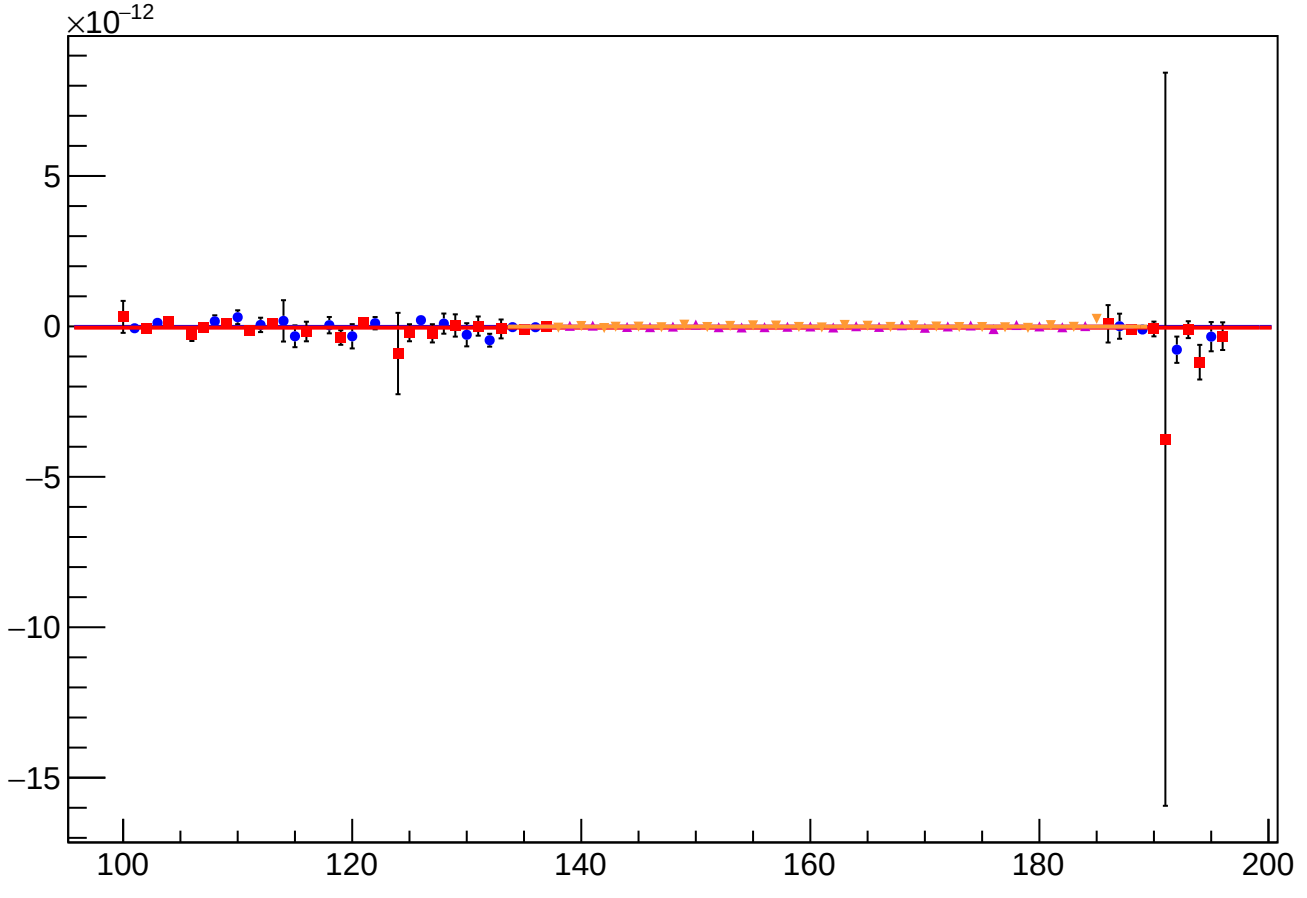
Left: 1908.296+/-0.221 $\chi^2$/NDF: 931402.4/47

Right: 2564.179+/-0.405 $\chi^2$/NDF: 2407483.2/45

In: 2042.808+/-0.278 $\chi^2$/NDF:2027267.5/42

Out: 2074.271+/-0.271 $\chi^2$/NDF:3325353.9/50

All: 2058.894+/-0.194 $\chi^2$/NDF: 5359188.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.0/22

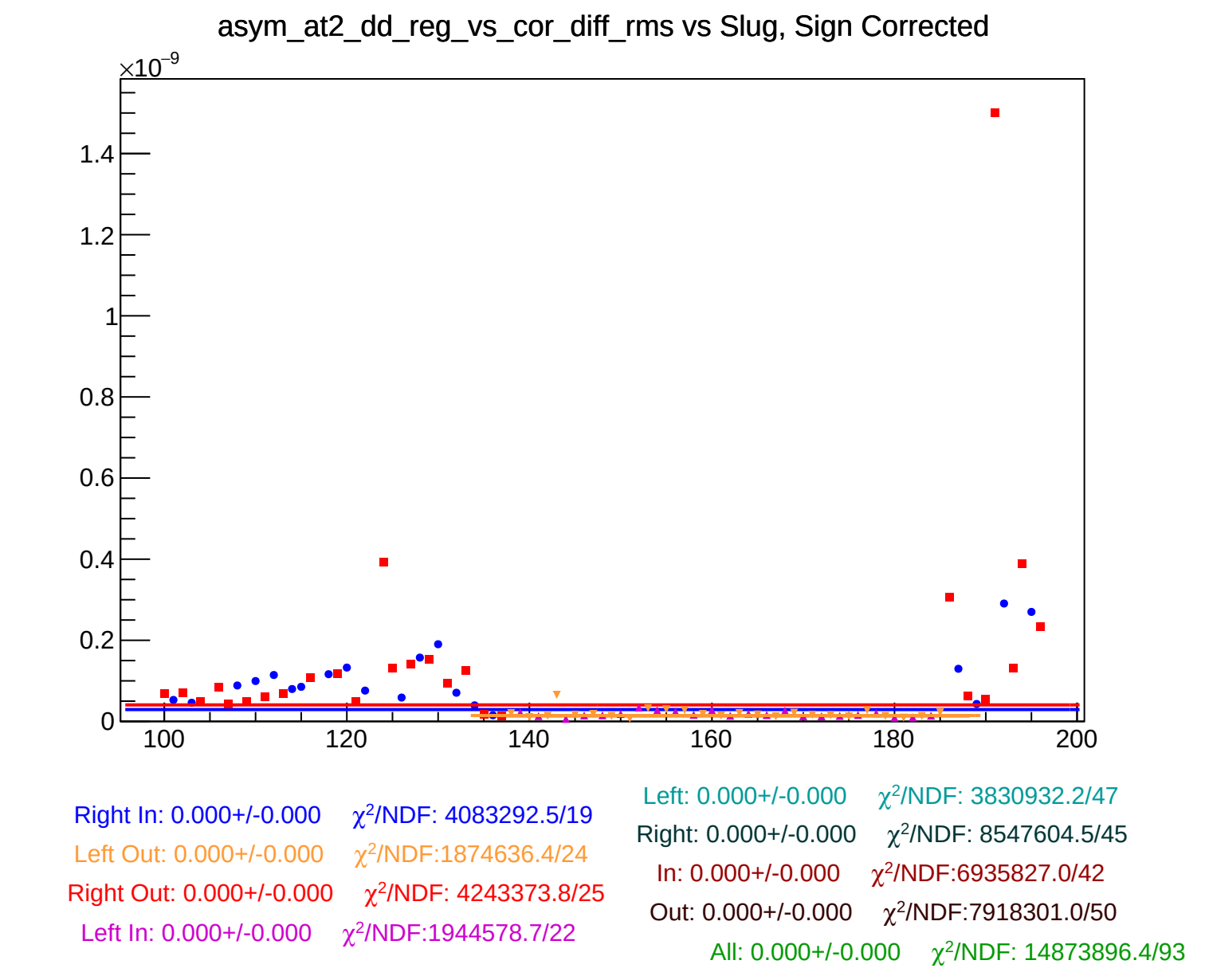
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.6/47

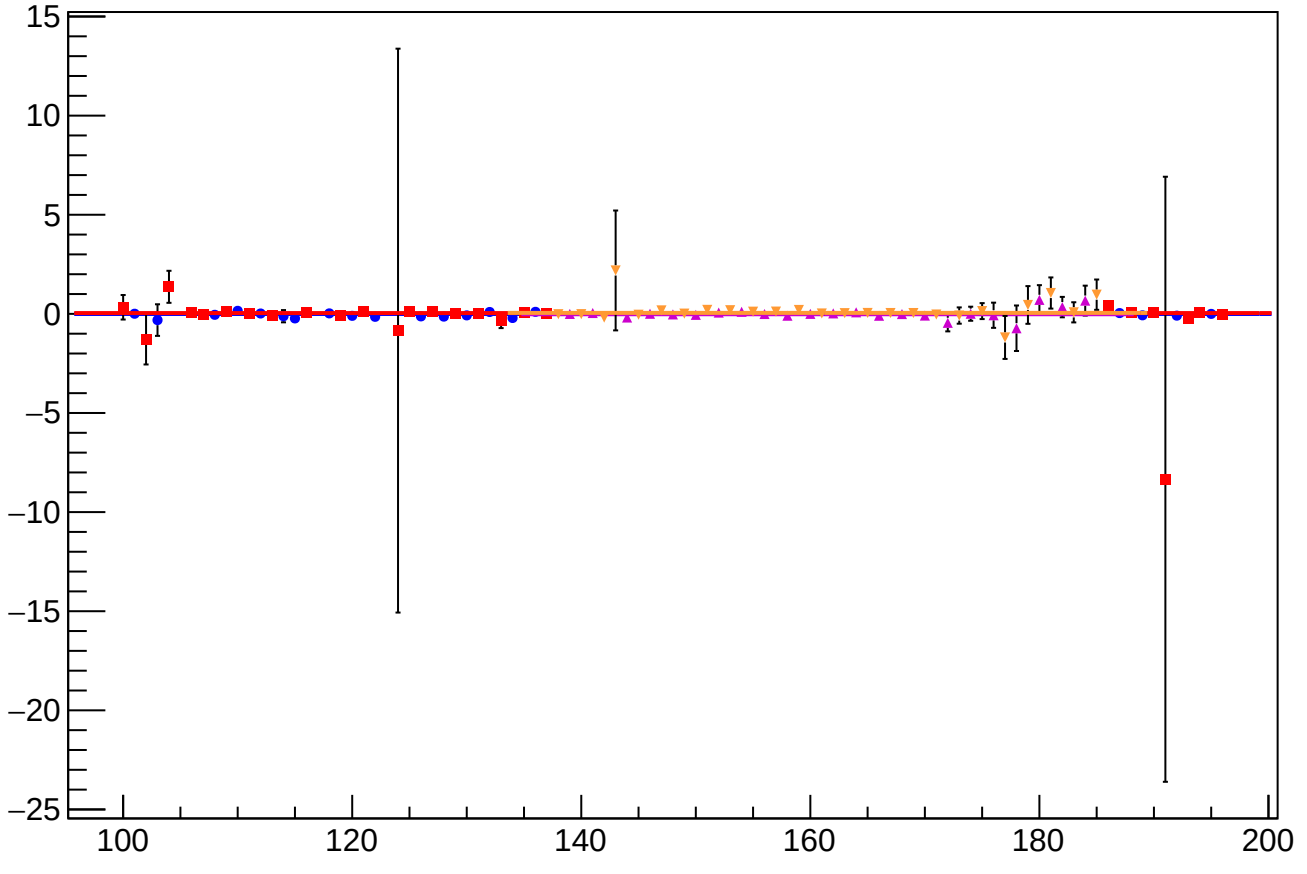
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:43.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:50.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 94.2/93


asym_at2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4083292.5/19
Left Out: 0.000+/-0.000 χ²/NDF:1874636.4/24
Right Out: 0.000+/-0.000 χ²/NDF: 4243373.8/25
Left In: 0.000+/-0.000 χ²/NDF:1944578.7/22
Left: 0.000+/-0.000 χ²/NDF: 3830932.2/47
Right: 0.000+/-0.000 χ²/NDF: 8547604.5/45
In: 0.000+/-0.000 χ²/NDF:6935827.0/42
Out: 0.000+/-0.000 χ²/NDF:7918301.0/50
All: 0.000+/-0.000 χ²/NDF: 14873896.4/93




Right In: -0.006+/-0.025 $\chi^2$/NDF: 14.6/19

Left Out: 0.050+/-0.017 $\chi^2$/NDF:24.5/24

Right Out: 0.040+/-0.021 $\chi^2$/NDF: 22.6/25

Left In: -0.019+/-0.017 $\chi^2$/NDF:15.4/22

Left: 0.016+/-0.012 $\chi^2$/NDF: 48.0/47

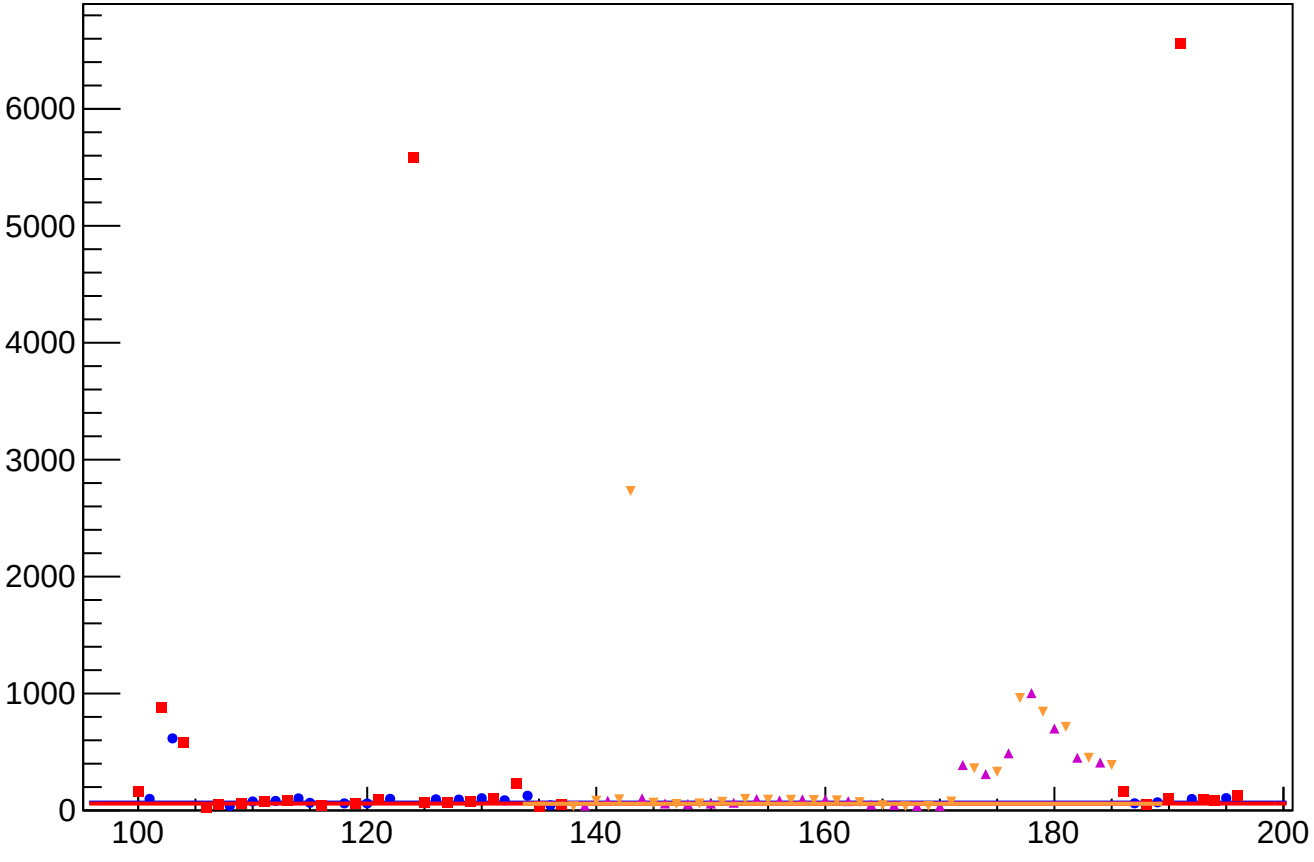
Right: 0.021+/-0.016 $\chi^2$/NDF: 39.1/45

In: -0.015+/-0.014 $\chi^2$/NDF:30.2/42

Out: 0.046+/-0.013 $\chi^2$/NDF:47.2/50

All: 0.017+/-0.010 $\chi^2$/NDF: 87.2/93

# asym_at2_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 67.413+/-0.017 $\chi^2$/NDF: 2864192.5/19

Left Out: 57.259+/-0.012 $\chi^2$/NDF:12322019.7/24

Right Out: 58.873+/-0.015 $\chi^2$/NDF: 5654305.2/25

Left In: 58.580+/-0.012 $\chi^2$/NDF:10247660.0/22

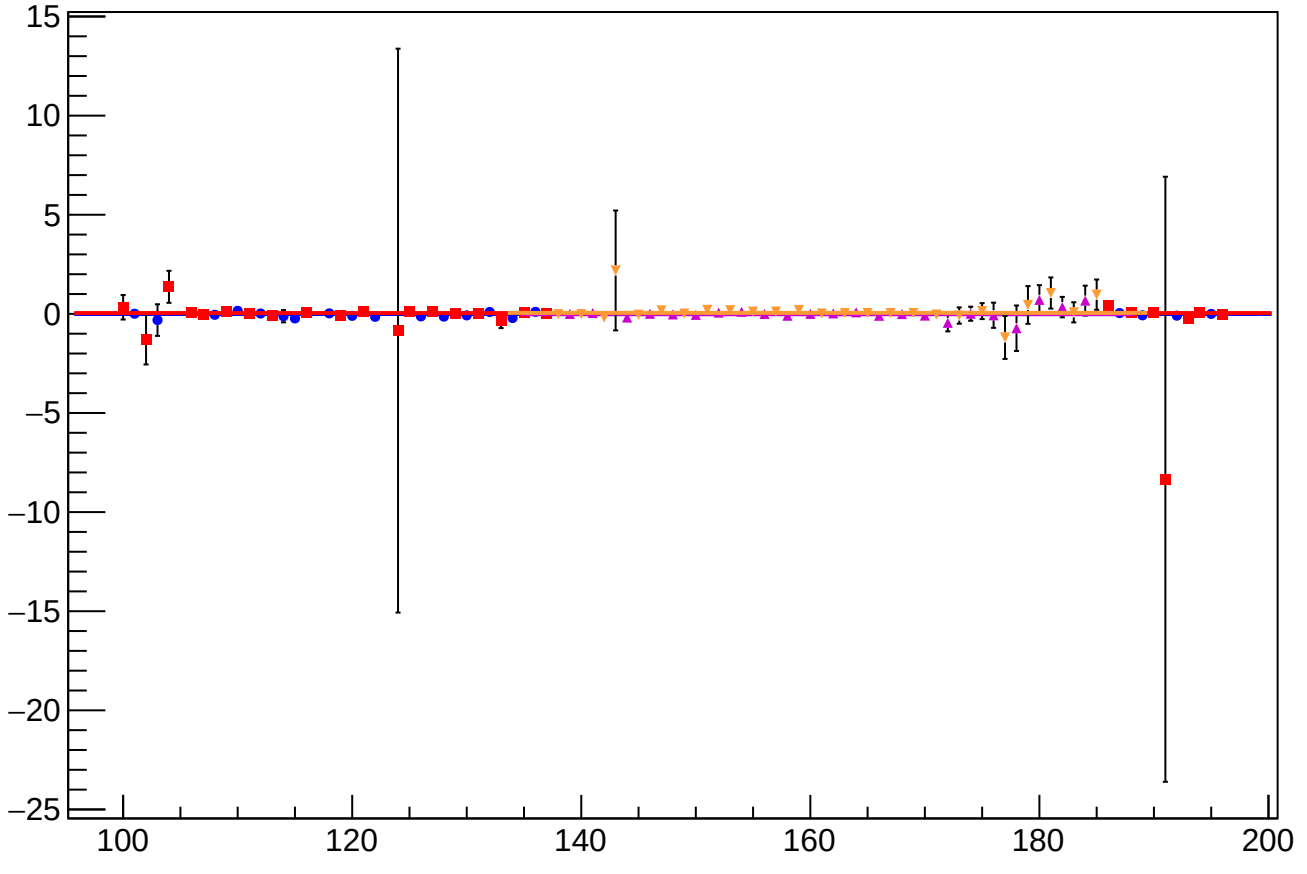
Left: 57.916+/-0.009 $\chi^2$/NDF: 22575659.0/47

Right: 62.507+/-0.011 $\chi^2$/NDF: 8657312.3/45

In: 61.469+/-0.010 $\chi^2$/NDF:13285809.4/42

Out: 57.894+/-0.009 $\chi^2$/NDF:17983388.1/50

All: 59.578+/-0.007 $\chi^2$/NDF: 31337667.9/93




Right In: -0.006+/-0.025 $\chi^2$/NDF: 14.6/19

Left Out: 0.050+/-0.017 $\chi^2$/NDF:24.5/24

Right Out: 0.040+/-0.021 $\chi^2$/NDF: 22.6/25

Left In: -0.019+/-0.017 $\chi^2$/NDF:15.4/22

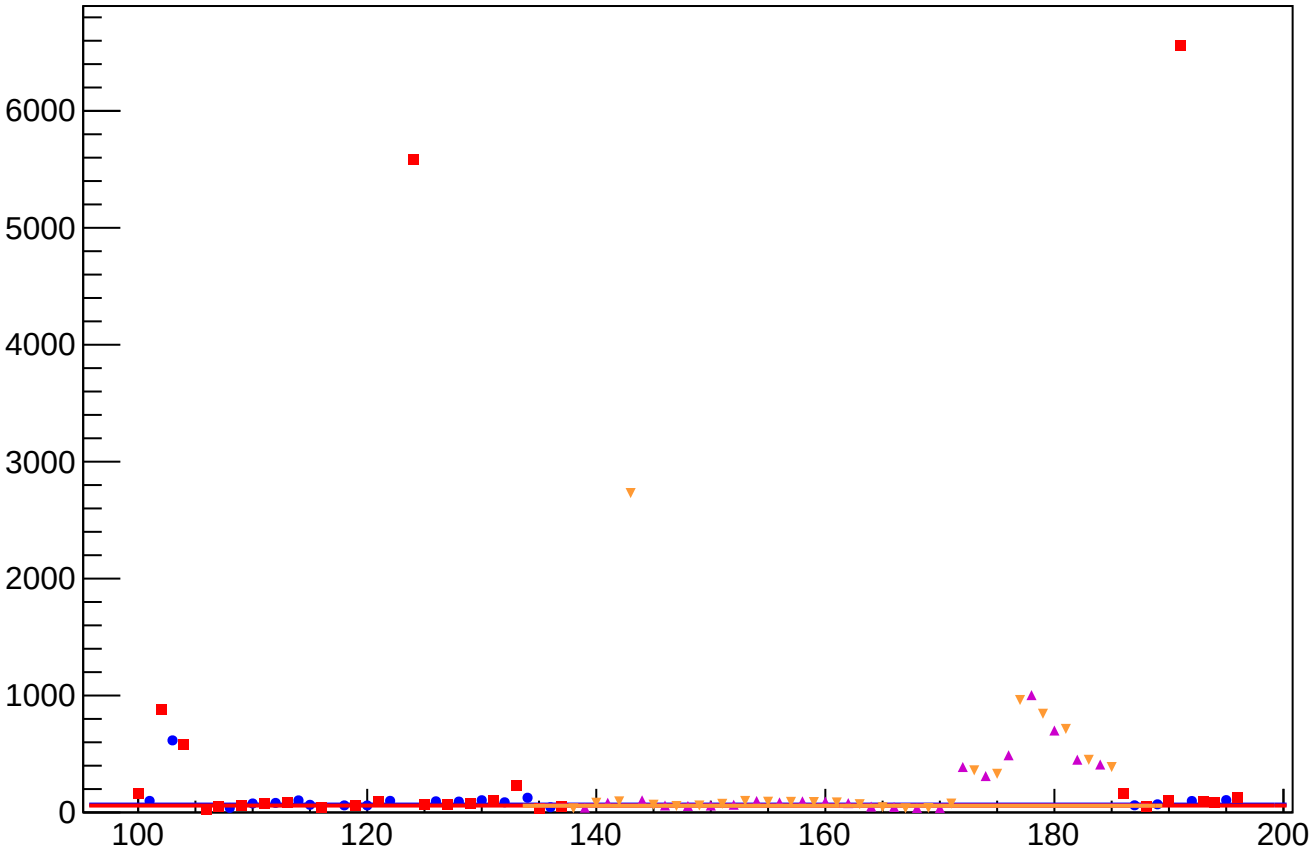
Left: 0.016+/-0.012 $\chi^2$/NDF: 48.0/47

Right: 0.021+/-0.016 $\chi^2$/NDF: 39.1/45

In: -0.015+/-0.014 $\chi^2$/NDF:30.2/42

Out: 0.046+/-0.013 $\chi^2$/NDF:47.2/50

All: 0.017+/-0.010 $\chi^2$/NDF: 87.2/93




Right In: 67.413+/-0.017 $\chi^2$/NDF: 2864192.5/19

Left Out: 57.259+/-0.012 $\chi^2$/NDF:12322019.7/24

Right Out: 58.873+/-0.015 $\chi^2$/NDF: 5654305.2/25

Left In: 58.580+/-0.012 $\chi^2$/NDF:10247660.0/22

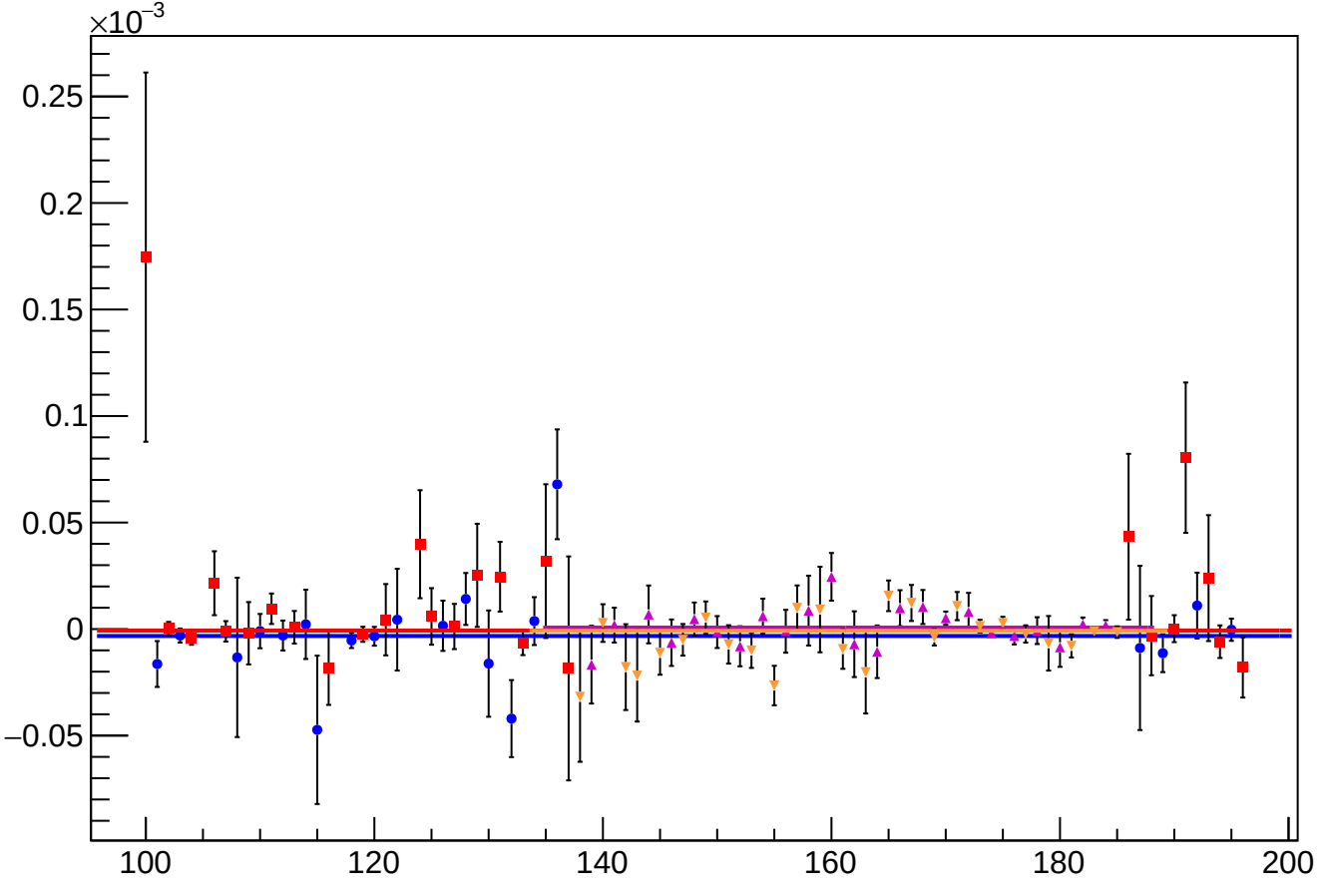
Left: 57.916+/-0.009 $\chi^2$/NDF: 22575659.0/47

Right: 62.507+/-0.011 $\chi^2$/NDF: 8657312.3/45

In: 61.469+/-0.010 $\chi^2$/NDF:13285809.4/42

Out: 57.894+/-0.009 $\chi^2$/NDF:17983388.1/50

All: 59.578+/-0.007 $\chi^2$/NDF: 31337667.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:32.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.8/22

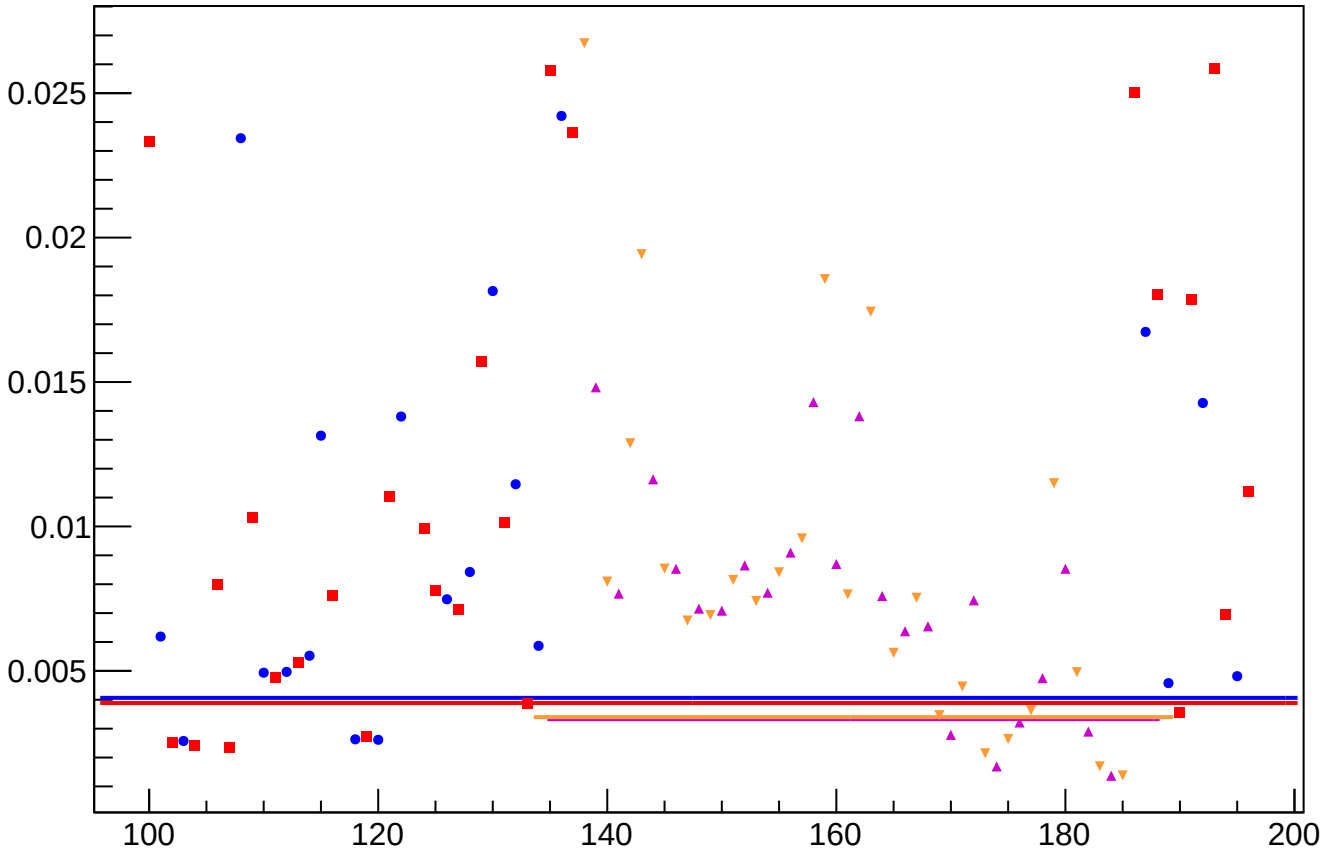
Left: -0.000+/-0.000 $\chi^2$/NDF: 52.7/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 50.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:43.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:61.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 105.0/93




Right In: 0.004+/-0.000 $\chi^2$/NDF: 5904965.7/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:14248948.0/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 8665388.5/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:12566501.1/22

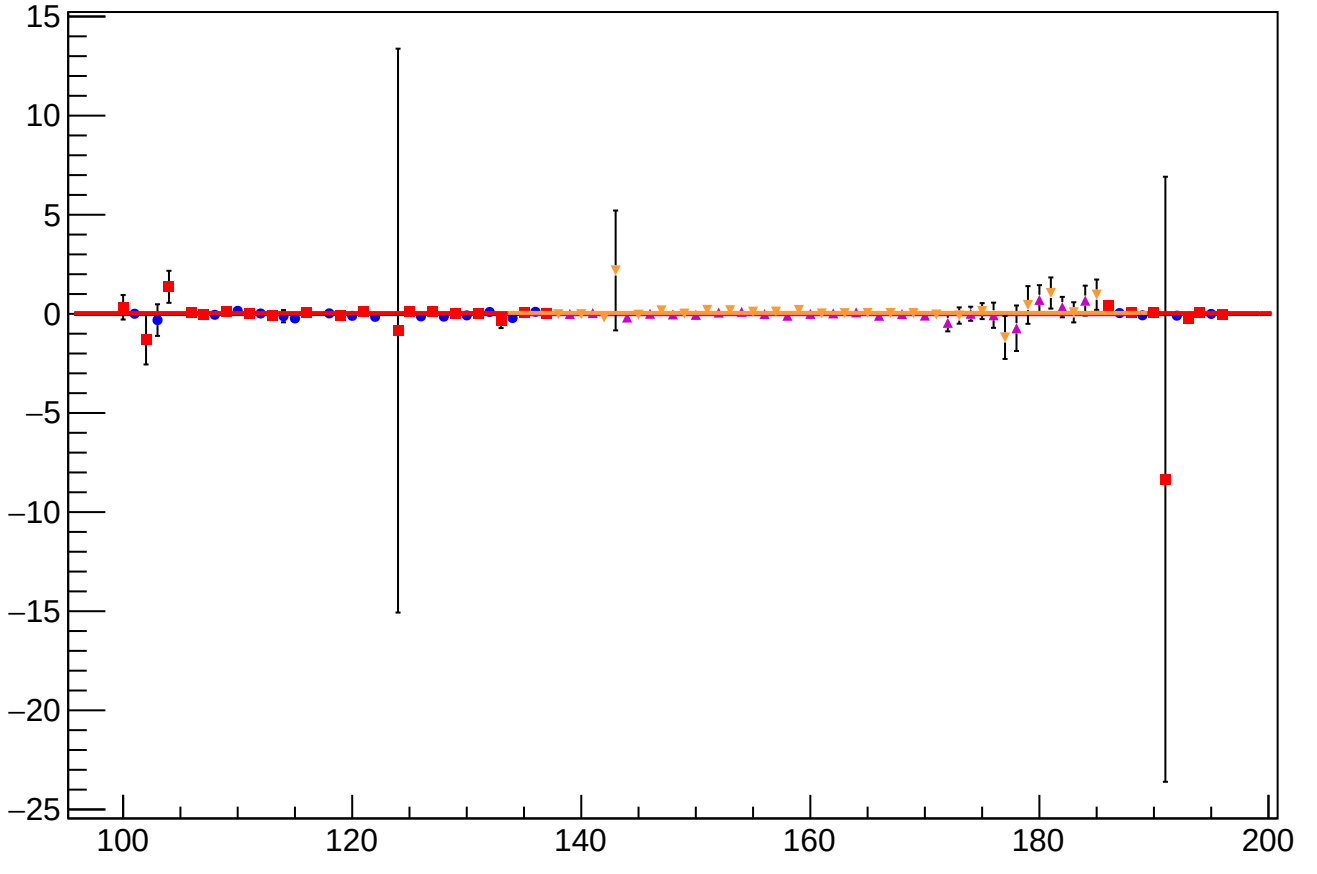
Left: 0.003+/-0.000 $\chi^2$/NDF: 26820032.9/47

Right: 0.004+/-0.000 $\chi^2$/NDF: 14583286.5/45

In: 0.004+/-0.000 $\chi^2$/NDF:18749289.5/42

Out: 0.004+/-0.000 $\chi^2$/NDF:23065075.8/50

All: 0.004+/-0.000 $\chi^2$/NDF: 41815278.7/93




Right In: -0.006+/-0.025 $\chi^2$/NDF: 14.6/19

Left Out: 0.050+/-0.017 $\chi^2$/NDF:24.5/24

Right Out: 0.040+/-0.021 $\chi^2$/NDF: 22.6/25

Left In: -0.019+/-0.017 $\chi^2$/NDF:15.4/22

Left: 0.016+/-0.012 $\chi^2$/NDF: 48.0/47

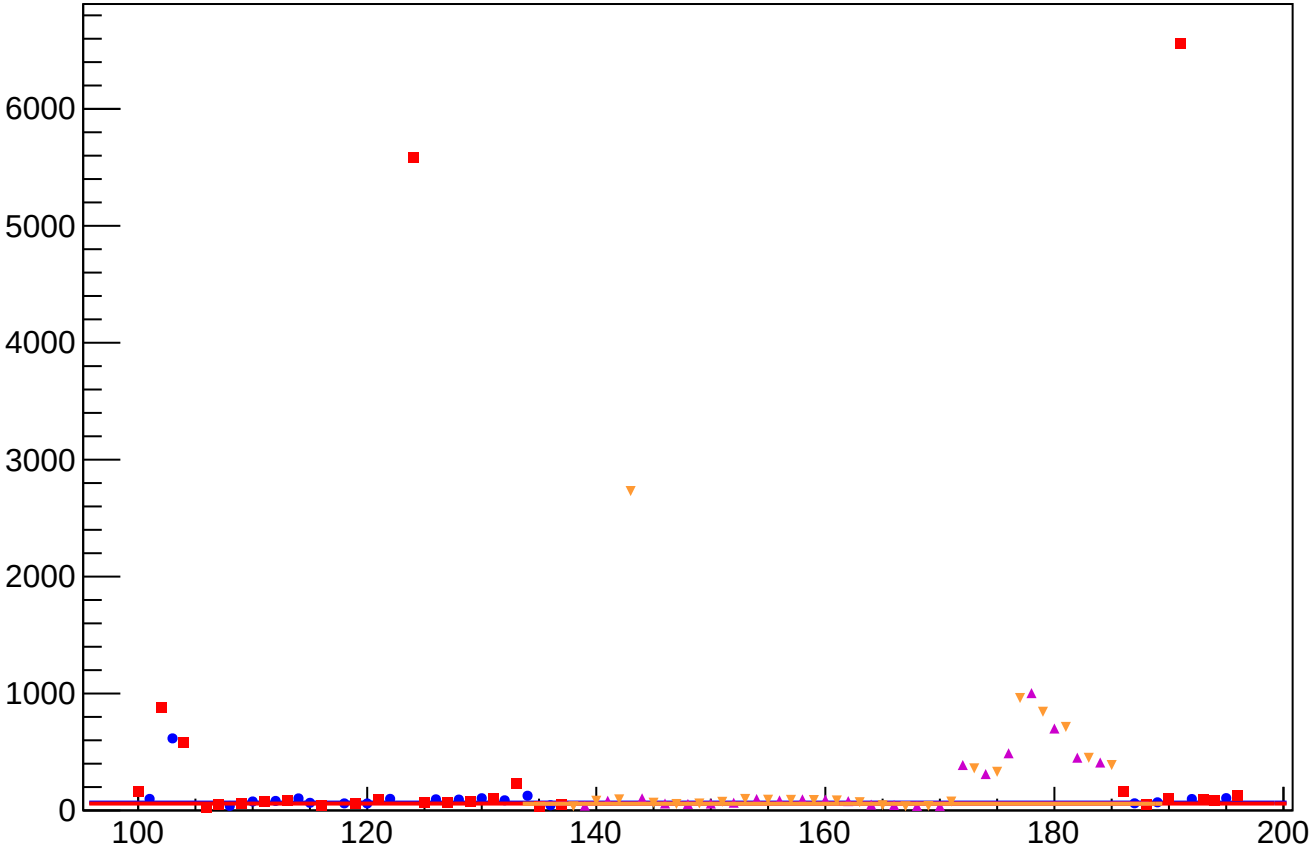
Right: 0.021+/-0.016 $\chi^2$/NDF: 39.1/45

In: -0.015+/-0.014 $\chi^2$/NDF:30.2/42

Out: 0.046+/-0.013 $\chi^2$/NDF:47.2/50

All: 0.017+/-0.010 $\chi^2$/NDF: 87.2/93

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 67.420+/-0.017 $\chi^2$/NDF: 2863025.2/19

Left Out: 57.258+/-0.012 $\chi^2$/NDF:12321763.3/24

Right Out: 58.868+/-0.015 $\chi^2$/NDF: 5655049.2/25

Left In: 58.582+/-0.012 $\chi^2$/NDF:10247153.8/22

Left: 57.916+/-0.009 $\chi^2$/NDF: 22574928.3/47

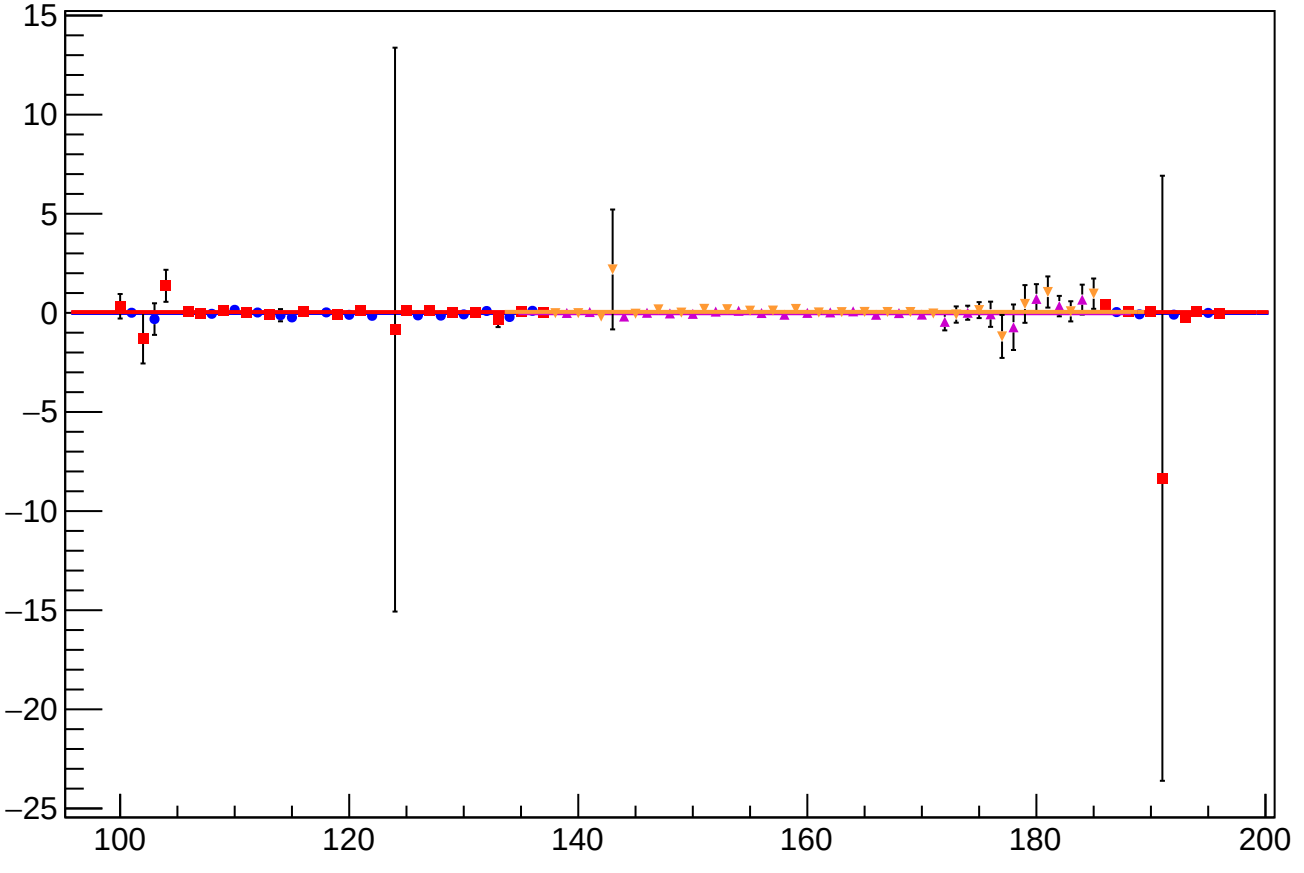
Right: 62.507+/-0.011 $\chi^2$/NDF: 8657289.1/45

In: 61.473+/-0.010 $\chi^2$/NDF:13284319.1/42

Out: 57.891+/-0.009 $\chi^2$/NDF:17983842.7/50

All: 59.579+/-0.007 $\chi^2$/NDF: 31336880.1/93

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.006+/-0.025 $\chi^2$/NDF: 14.6/19

Left Out: 0.050+/-0.017 $\chi^2$/NDF:24.5/24

Right Out: 0.040+/-0.021 $\chi^2$/NDF: 22.6/25

Left In: -0.019+/-0.017 $\chi^2$/NDF:15.4/22

Left: 0.016+/-0.012 $\chi^2$/NDF: 48.0/47

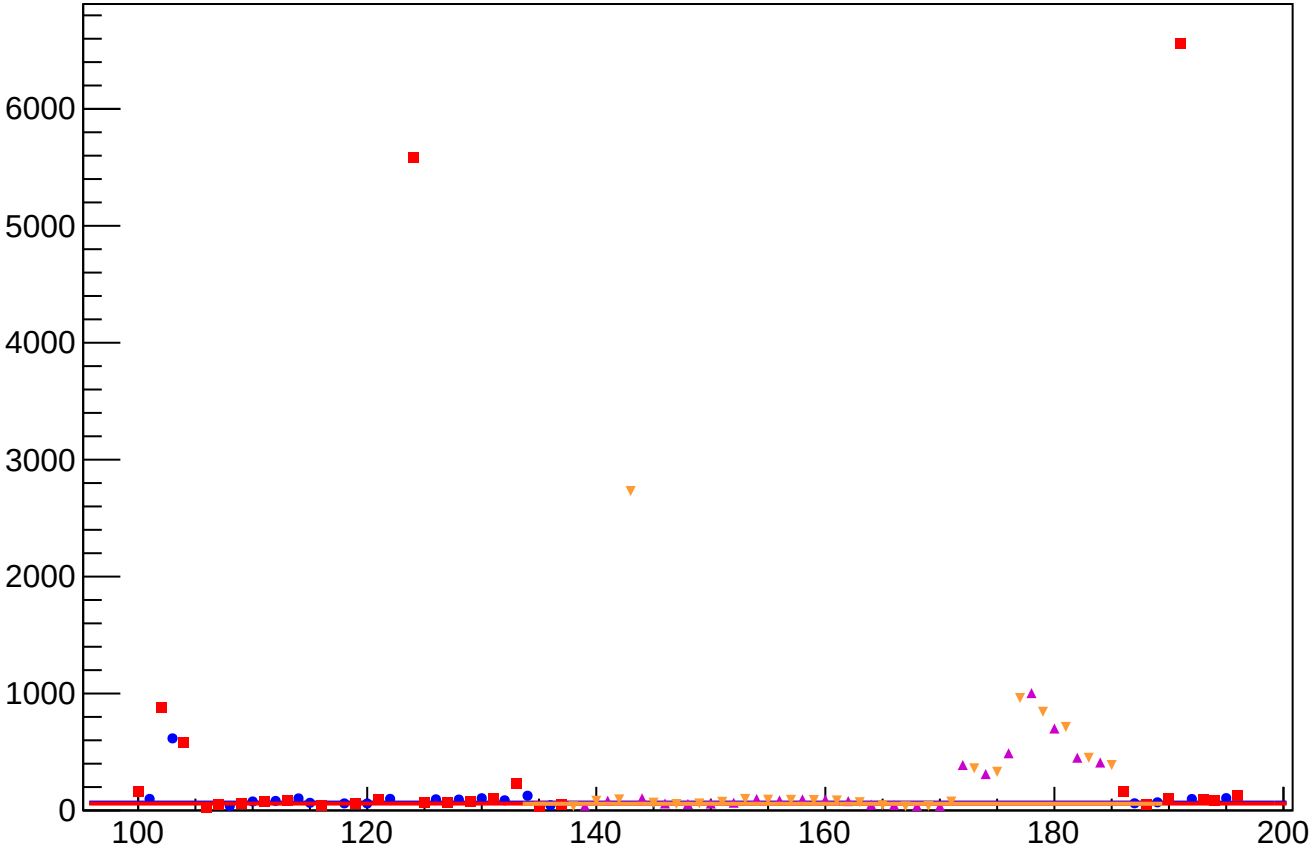
Right: 0.021+/-0.016 $\chi^2$/NDF: 39.1/45

In: -0.015+/-0.014 $\chi^2$/NDF:30.2/42

Out: 0.046+/-0.013 $\chi^2$/NDF:47.2/50

All: 0.017+/-0.010 $\chi^2$/NDF: 87.2/93

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 67.420+/-0.017 $\chi^2$/NDF: 2863025.2/19

Left Out: 57.258+/-0.012 $\chi^2$/NDF:12321763.3/24

Right Out: 58.868+/-0.015 $\chi^2$/NDF: 5655049.2/25

Left In: 58.582+/-0.012 $\chi^2$/NDF:10247153.8/22

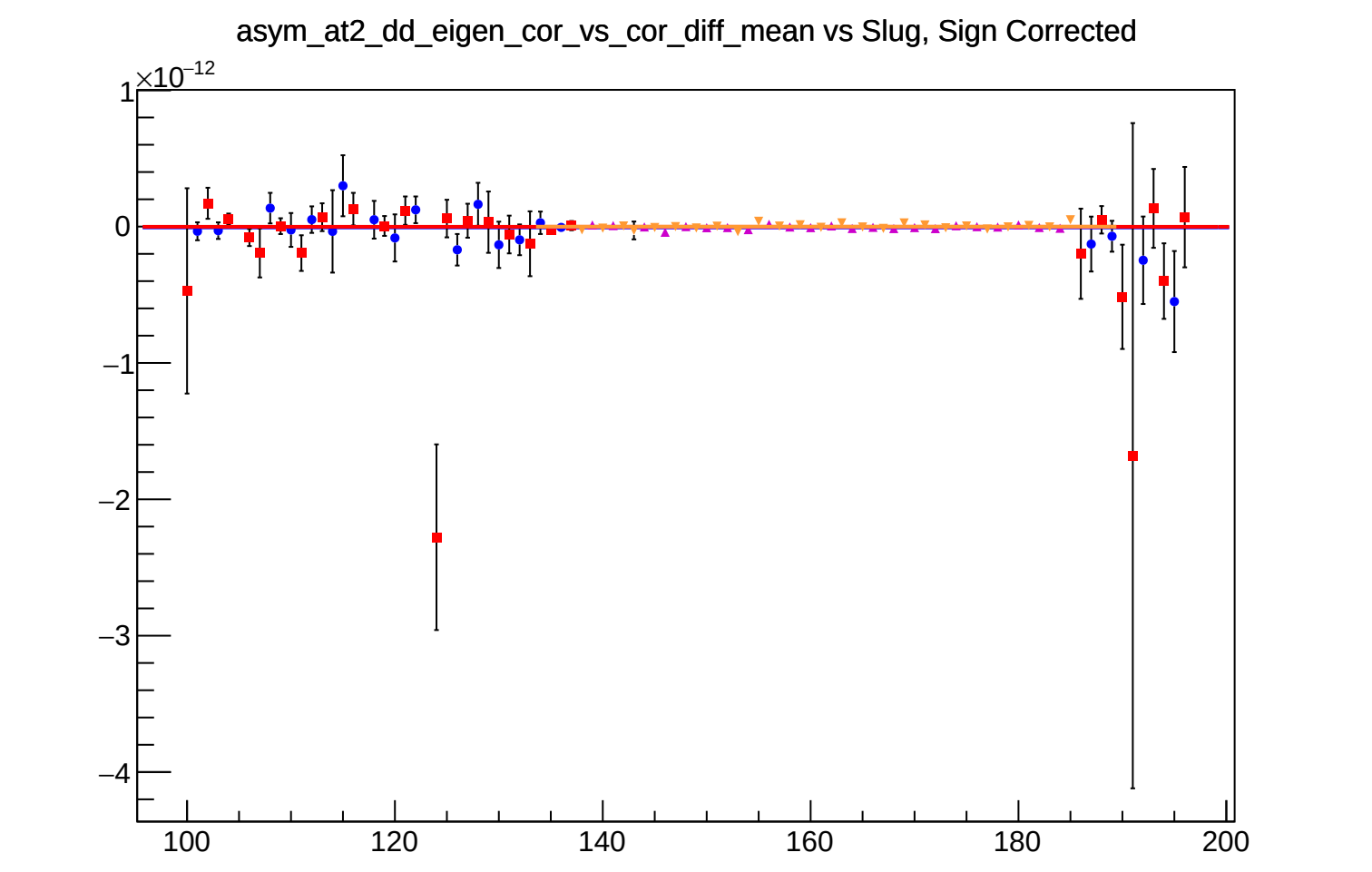
Left: 57.916+/-0.009 $\chi^2$/NDF: 22574928.3/47

Right: 62.507+/-0.011 $\chi^2$/NDF: 8657289.1/45

In: 61.473+/-0.010 $\chi^2$/NDF:13284319.1/42

Out: 57.891+/-0.009 $\chi^2$/NDF:17983842.7/50

All: 59.579+/-0.007 $\chi^2$/NDF: 31336880.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.2/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.4/22

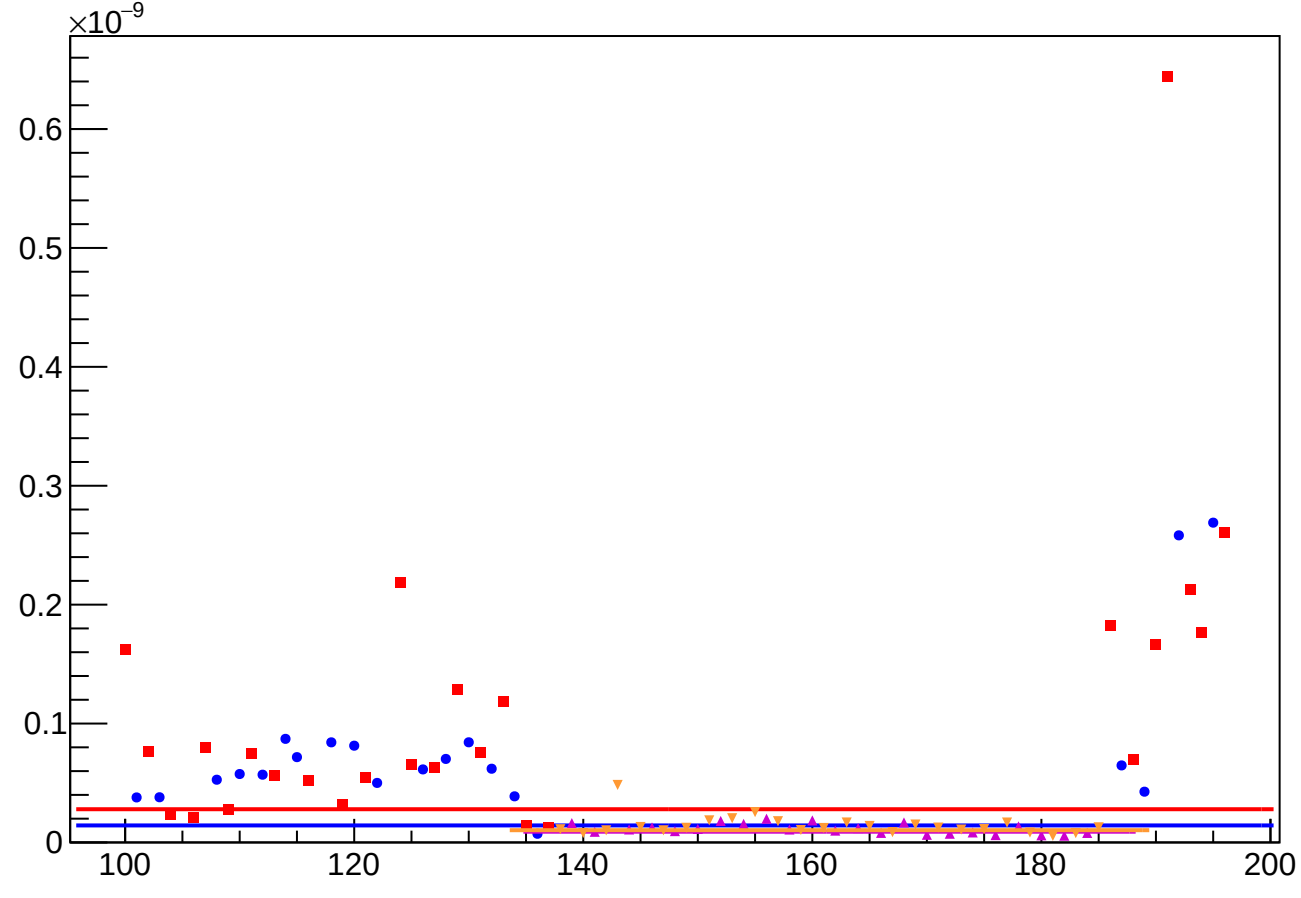
Left: -0.000+/-0.000 $\chi^2$/NDF: 34.5/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.6/45

In: -0.000+/-0.000 $\chi^2$/NDF:29.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 79.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7358669.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3643428.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7020091.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3047861.1/22

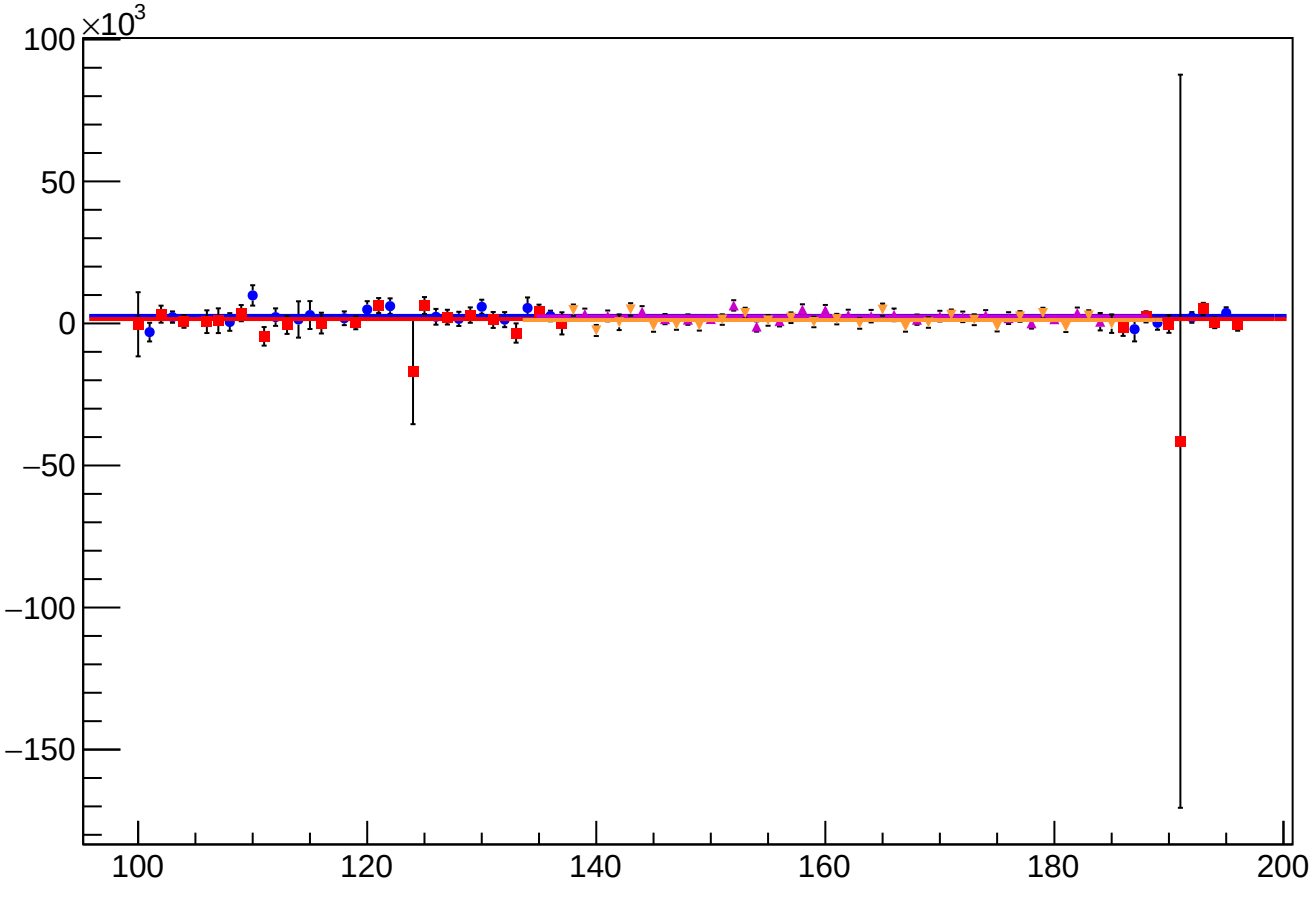
Left: 0.000+/-0.000 $\chi^2$/NDF: 6877548.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 15528484.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:10903188.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13389763.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 24609129.5/93




Right In: 2648.008+/-594.316 $\chi^2$/NDF: 15.1/19

Left Out: 1202.401+/-389.137 $\chi^2$/NDF:26.3/24

Right Out: 1546.275+/-557.640 $\chi^2$/NDF: 21.8/25

Left In: 2439.008+/-397.969 $\chi^2$/NDF:17.5/22

Left: 1806.830+/-278.231 $\chi^2$/NDF: 48.7/47

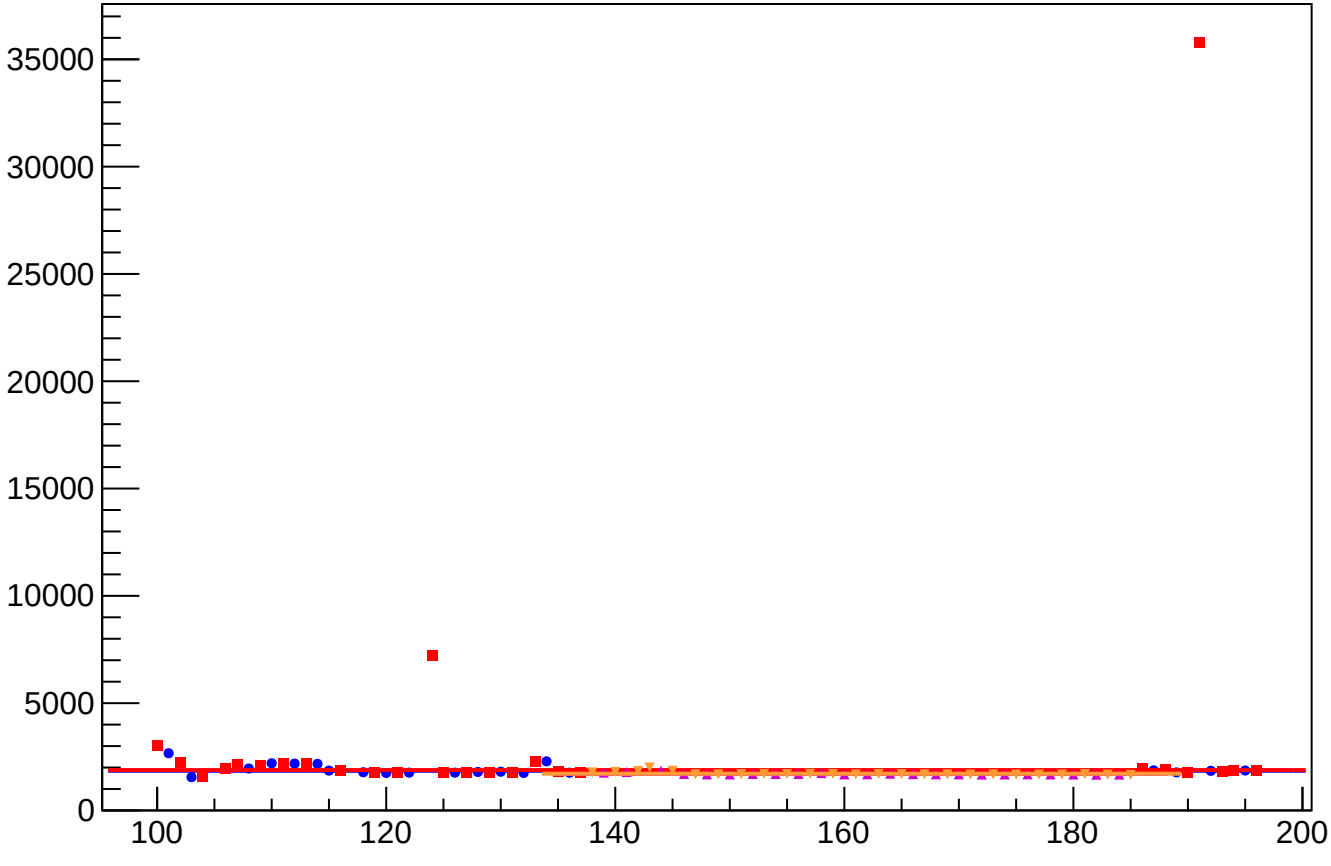
Right: 2062.101+/-406.659 $\chi^2$/NDF: 38.8/45

In: 2503.710+/-330.678 $\chi^2$/NDF:32.7/42

Out: 1315.016+/-319.119 $\chi^2$/NDF:48.4/50

All: 1888.224+/-229.629 $\chi^2$/NDF: 87.8/93

# reg_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1849.465+/-0.420 $\chi^2$/NDF: 265508.7/19

Left Out: 1711.777+/-0.275 $\chi^2$/NDF:60068.7/24

Right Out: 1880.792+/-0.394 $\chi^2$/NDF: 516720.3/25

Left In: 1703.969+/-0.281 $\chi^2$/NDF:22568.8/22

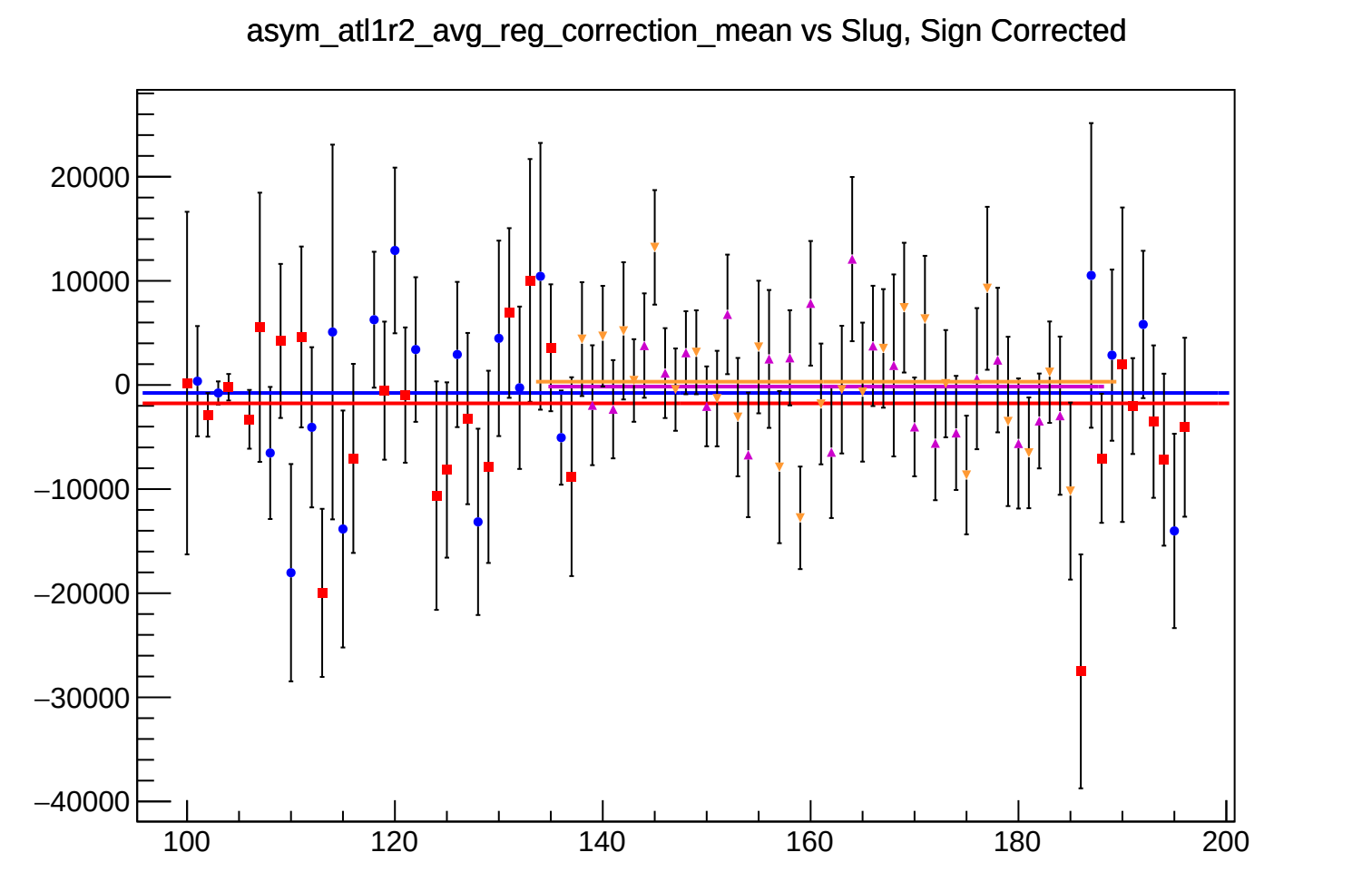
Left: 1707.960+/-0.197 $\chi^2$/NDF: 83031.0/47

Right: 1866.147+/-0.287 $\chi^2$/NDF: 785188.0/45

In: 1749.012+/-0.234 $\chi^2$/NDF:370835.8/42

Out: 1767.235+/-0.226 $\chi^2$/NDF:700587.9/50

All: 1758.452+/-0.162 $\chi^2$/NDF: 1074570.0/93




Right In: -768.353+/-940.955 $\chi^2$/NDF: 17.5/19

Left Out: 314.051+/-1091.976 $\chi^2$/NDF:27.0/24

Right Out: -1764.749+/-868.941 $\chi^2$/NDF: 20.8/25

Left In: -157.968+/-1128.443 $\chi^2$/NDF:14.7/22

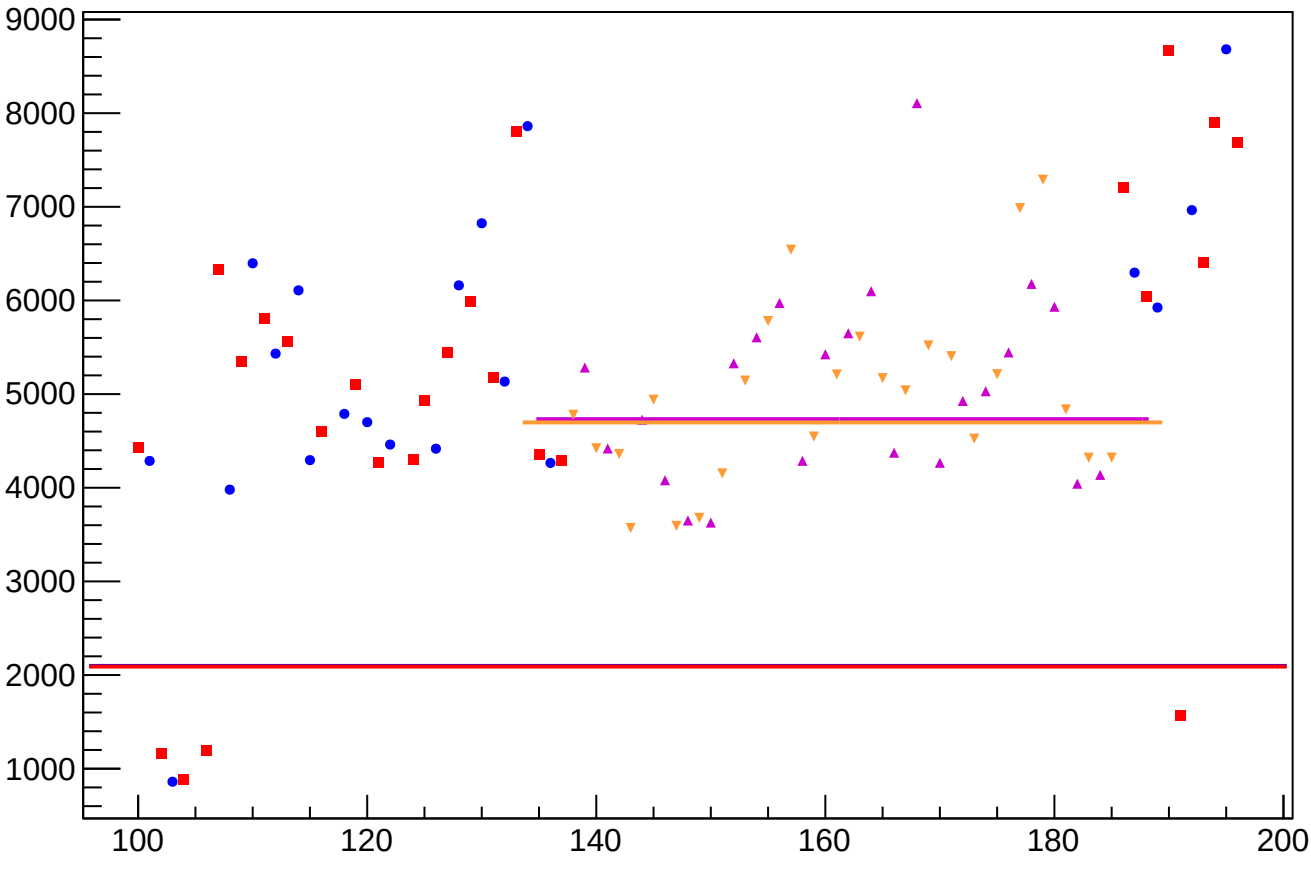
Left: 85.792+/-784.719 $\chi^2$/NDF: 41.8/47

Right: -1306.134+/-638.377 $\chi^2$/NDF: 39.0/45

In: -518.011+/-722.677 $\chi^2$/NDF:32.4/42

Out: -958.773+/-679.936 $\chi^2$/NDF:50.1/50

All: -751.811+/-495.208 $\chi^2$/NDF: 82.7/93




Right In: 2097.408+/-0.665 $\chi^2$/NDF: 9505612.2/19

Left Out: 4697.622+/-0.772 $\chi^2$/NDF:1239373.0/24

Right Out: 2090.738+/-0.614 $\chi^2$/NDF: 10857604.2/25

Left In: 4732.424+/-0.798 $\chi^2$/NDF:1242793.9/22

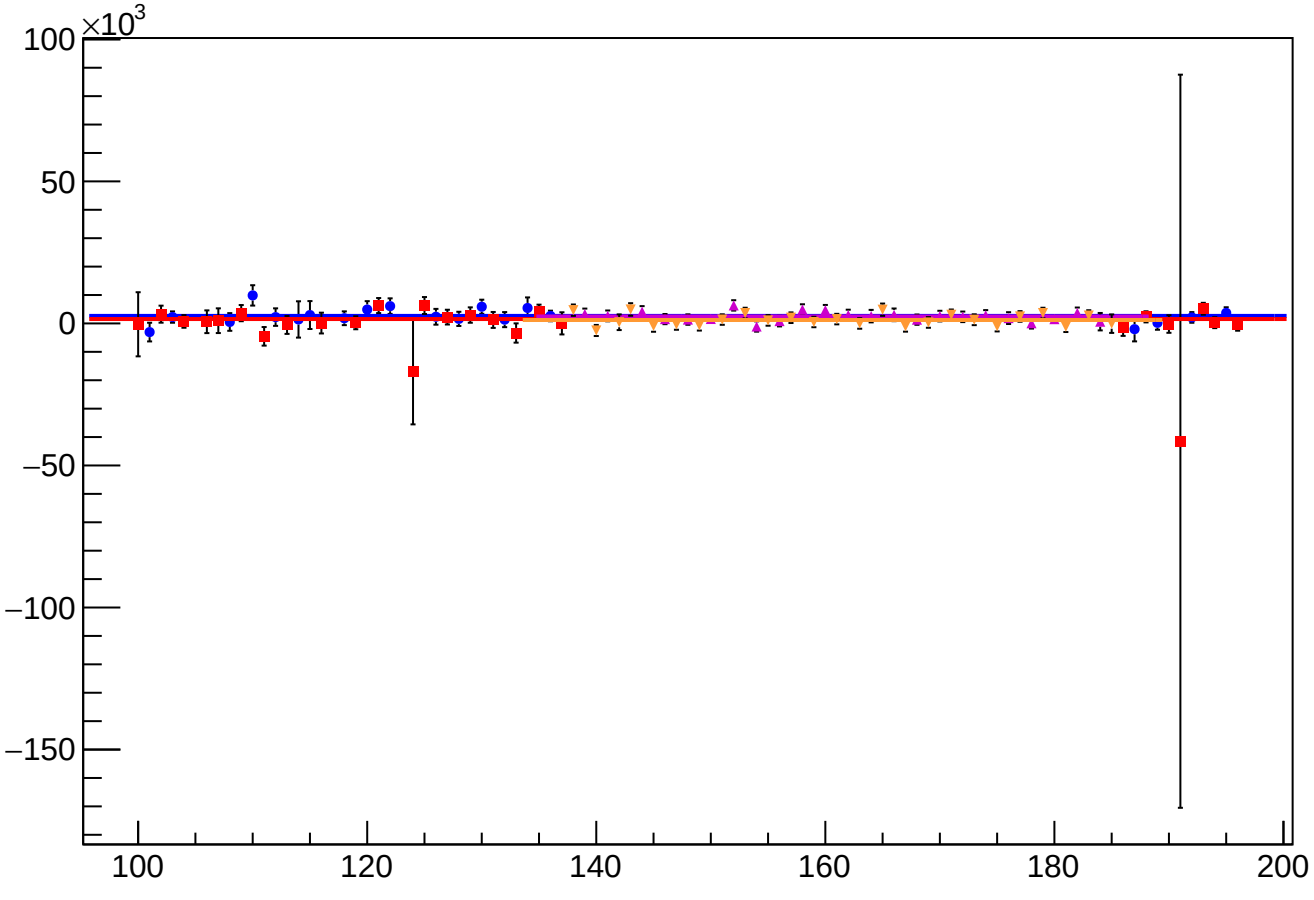
Left: 4714.452+/-0.555 $\chi^2$/NDF: 2483149.3/47

Right: 2093.808+/-0.451 $\chi^2$/NDF: 20363270.7/45

In: 3178.126+/-0.511 $\chi^2$/NDF:17181027.1/42

Out: 3101.459+/-0.481 $\chi^2$/NDF:19076133.5/50

All: 3137.458+/-0.350 $\chi^2$/NDF: 36269100.6/9




Right In: 2648.117+/-594.316 $\chi^2$/NDF: 15.1/19

Left Out: 1202.304+/-389.137 $\chi^2$/NDF:26.3/24

Right Out: 1545.428+/-557.641 $\chi^2$/NDF: 21.8/25

Left In: 2438.940+/-397.969 $\chi^2$/NDF:17.5/22

Left: 1806.747+/-278.231 $\chi^2$/NDF: 48.7/47

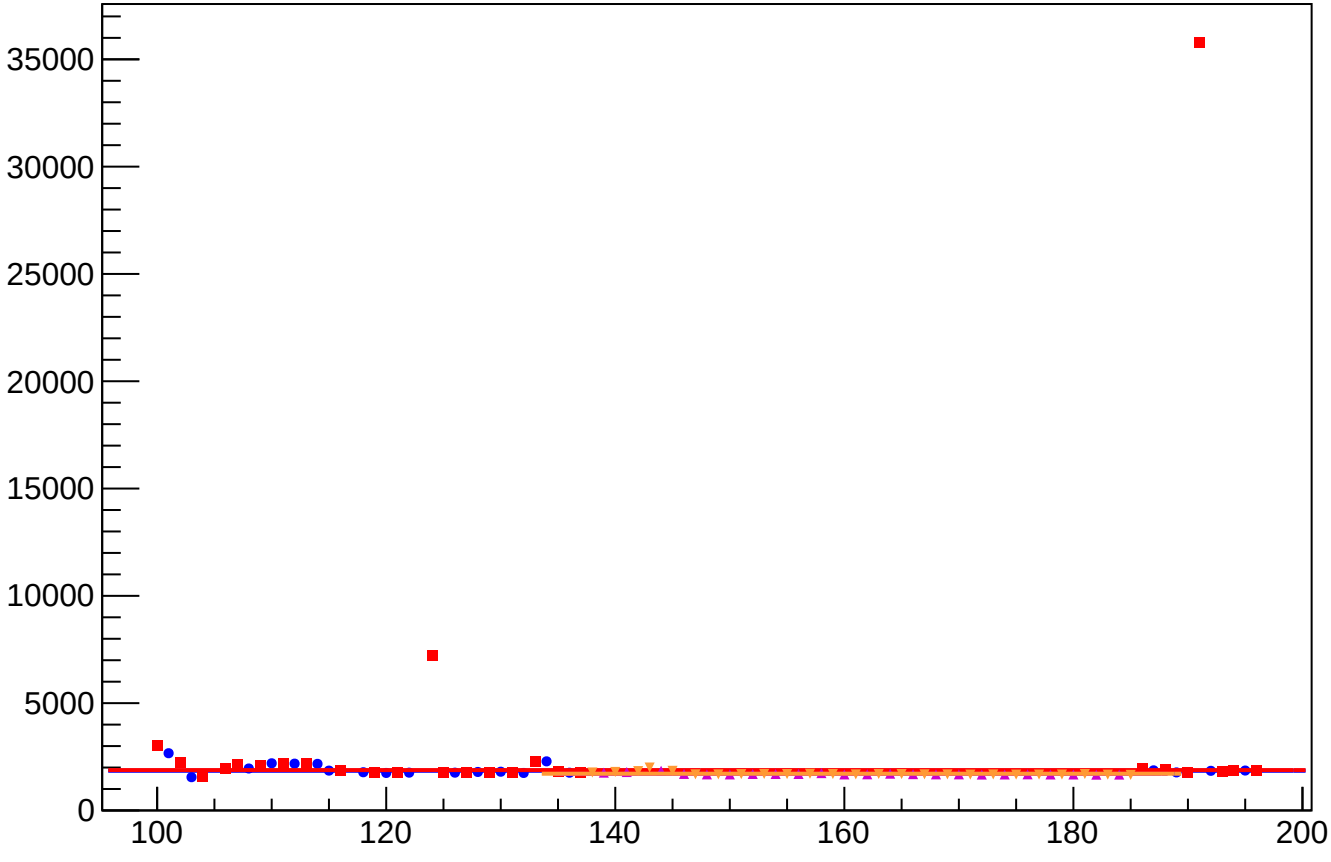
Right: 2061.702+/-406.659 $\chi^2$/NDF: 38.8/45

In: 2503.697+/-330.678 $\chi^2$/NDF:32.7/42

Out: 1314.673+/-319.119 $\chi^2$/NDF:48.4/50

All: 1888.040+/-229.629 $\chi^2$/NDF: 87.8/93

# cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1849.465+/-0.420 $\chi^2$/NDF: 265508.5/19

Left Out: 1711.777+/-0.275 $\chi^2$/NDF:60068.7/24

Right Out: 1881.074+/-0.394 $\chi^2$/NDF: 517001.3/25

Left In: 1703.969+/-0.281 $\chi^2$/NDF:22568.8/22

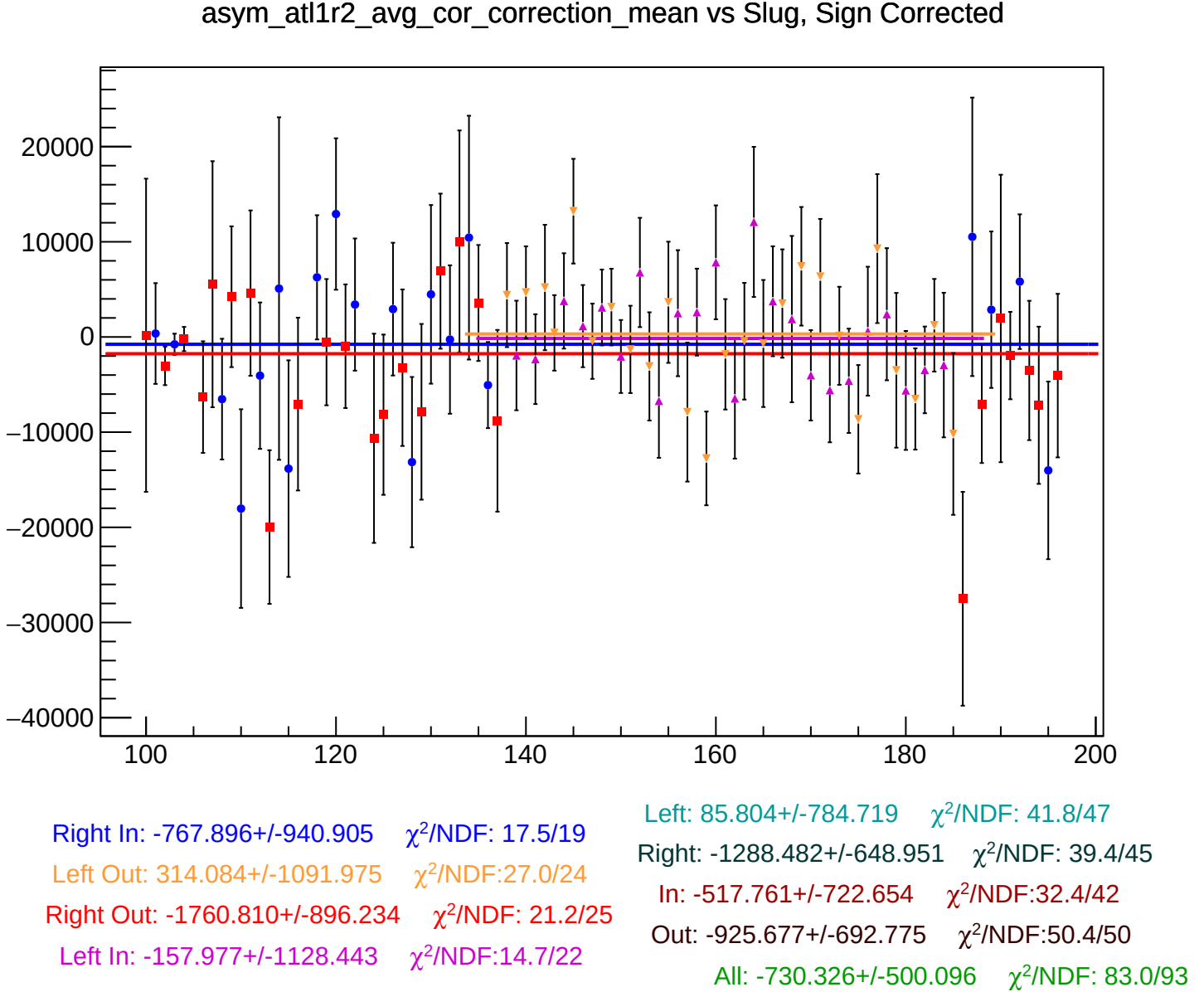
Left: 1707.960+/-0.197 $\chi^2$/NDF: 83031.0/47

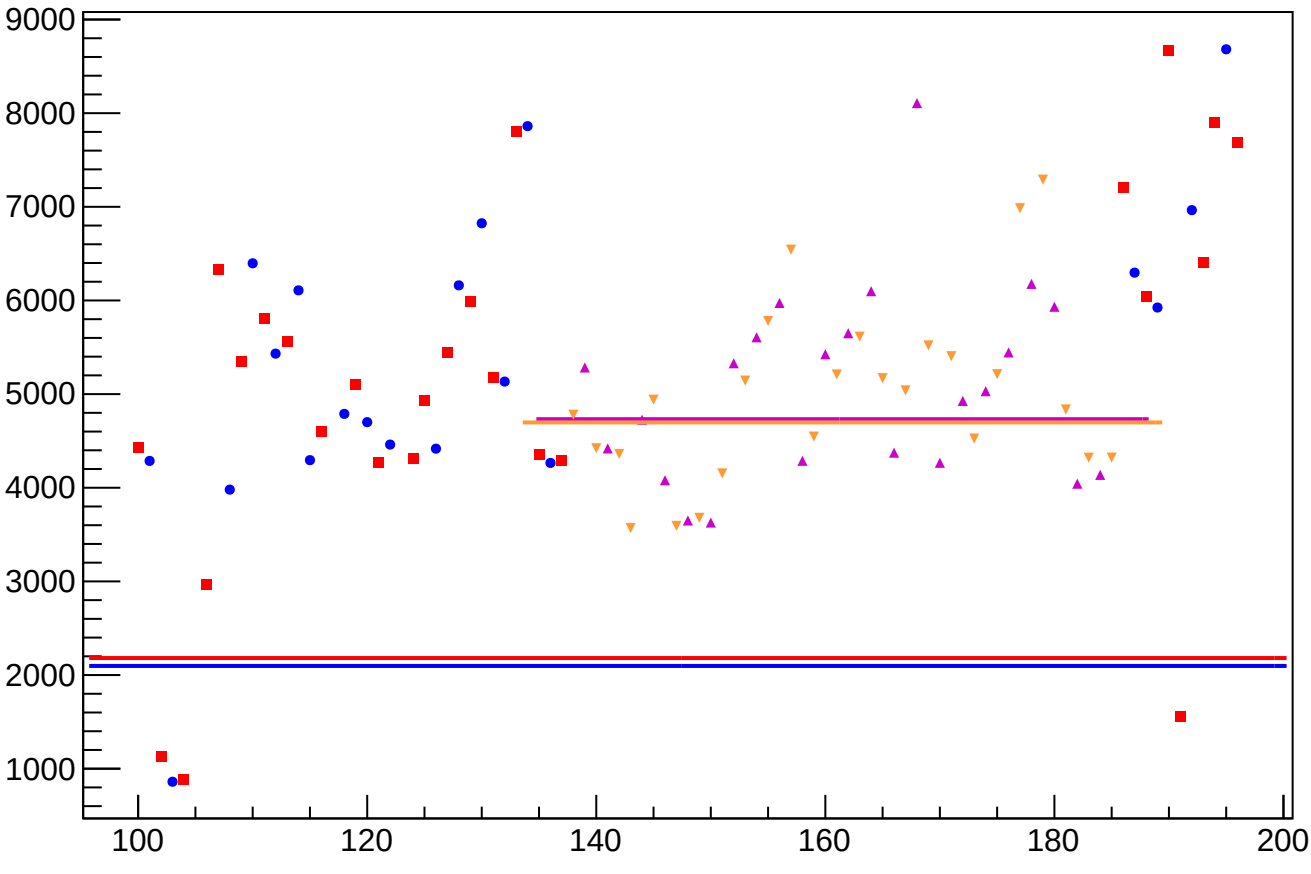
Right: 1866.296+/-0.287 $\chi^2$/NDF: 785522.1/45

In: 1749.012+/-0.234 $\chi^2$/NDF:370835.7/42

Out: 1767.317+/-0.226 $\chi^2$/NDF:701259.8/50

All: 1758.494+/-0.162 $\chi^2$/NDF: 1075270.1/93


asym_atl1r2_avg_cor_correction_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -767.896+/-940.905 χ²/NDF: 17.5/19
Left Out: 314.084+/-1091.975 χ²/NDF:27.0/24
Right Out: -1760.810+/-896.234 χ²/NDF: 21.2/25
Left In: -157.977+/-1128.443 χ²/NDF:14.7/22
Left: 85.804+/-784.719 χ²/NDF: 41.8/47
Right: -1288.482+/-648.951 χ²/NDF: 39.4/45
In: -517.761+/-722.654 χ²/NDF:32.4/42
Out: -925.677+/-692.775 χ²/NDF:50.4/50
All: -730.326+/-500.096 χ²/NDF: 83.0/93




Right In: 2097.238+/-0.665 $\chi^2$/NDF: 9506198.0/19

Left Out: 4697.618+/-0.772 $\chi^2$/NDF:1239387.1/24

Right Out: 2181.555+/-0.634 $\chi^2$/NDF: 10743970.4/25

Left In: 4732.421+/-0.798 $\chi^2$/NDF:1242809.3/22

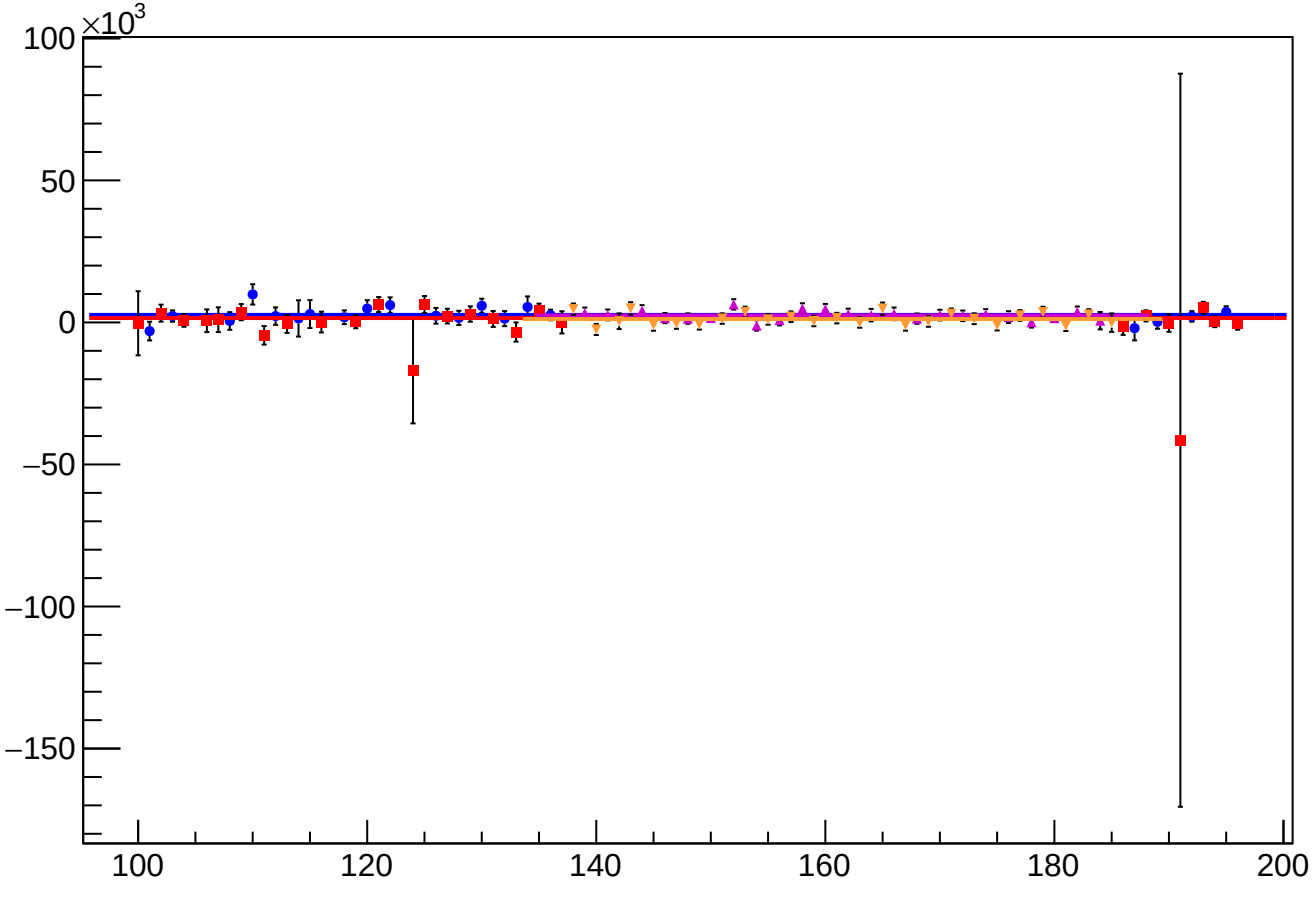
Left: 4714.448+/-0.555 $\chi^2$/NDF: 2483178.9/47

Right: 2141.445+/-0.459 $\chi^2$/NDF: 20258589.1/45

In: 3177.957+/-0.511 $\chi^2$/NDF:17182729.7/42

Out: 3194.255+/-0.490 $\chi^2$/NDF:18327749.7/50

All: 3186.450+/-0.354 $\chi^2$/NDF: 35511009.5/9




Right In: 2648.117+/-594.316 $\chi^2$/NDF: 15.1/19

Left Out: 1202.304+/-389.137 $\chi^2$/NDF:26.3/24

Right Out: 1545.428+/-557.641 $\chi^2$/NDF: 21.8/25

Left In: 2438.940+/-397.969 $\chi^2$/NDF:17.5/22

Left: 1806.747+/-278.231 $\chi^2$/NDF: 48.7/47

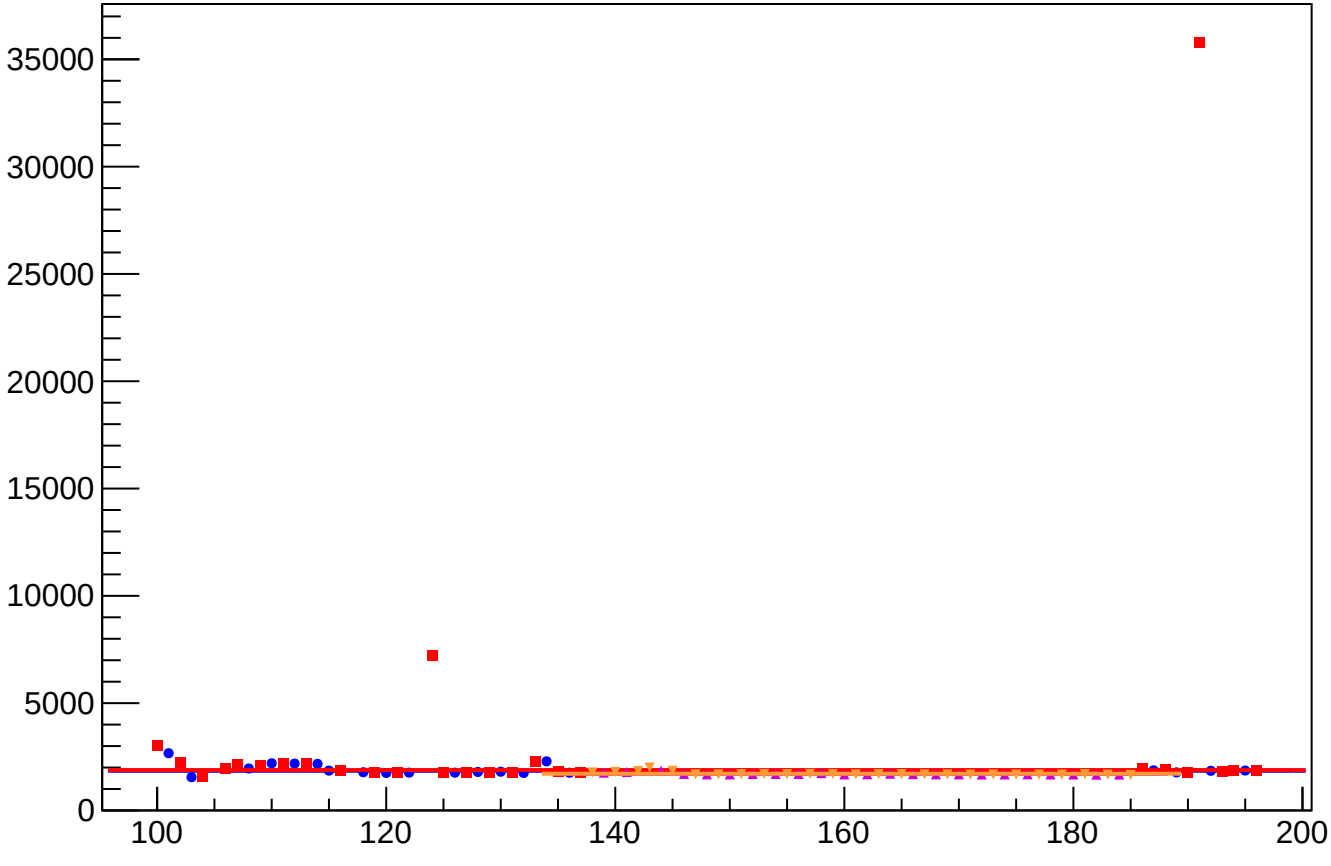
Right: 2061.702+/-406.659 $\chi^2$/NDF: 38.8/45

In: 2503.697+/-330.678 $\chi^2$/NDF:32.7/42

Out: 1314.673+/-319.119 $\chi^2$/NDF:48.4/50

All: 1888.040+/-229.629 $\chi^2$/NDF: 87.8/93

# eigen_cor_asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 1849.465+/-0.420 $\chi^2$/NDF: 265508.5/19

Left Out: 1711.777+/-0.275 $\chi^2$/NDF:60068.7/24

Right Out: 1881.074+/-0.394 $\chi^2$/NDF: 517001.3/25

Left In: 1703.969+/-0.281 $\chi^2$/NDF:22568.8/22

Left: 1707.960+/-0.197 $\chi^2$/NDF: 83031.0/47

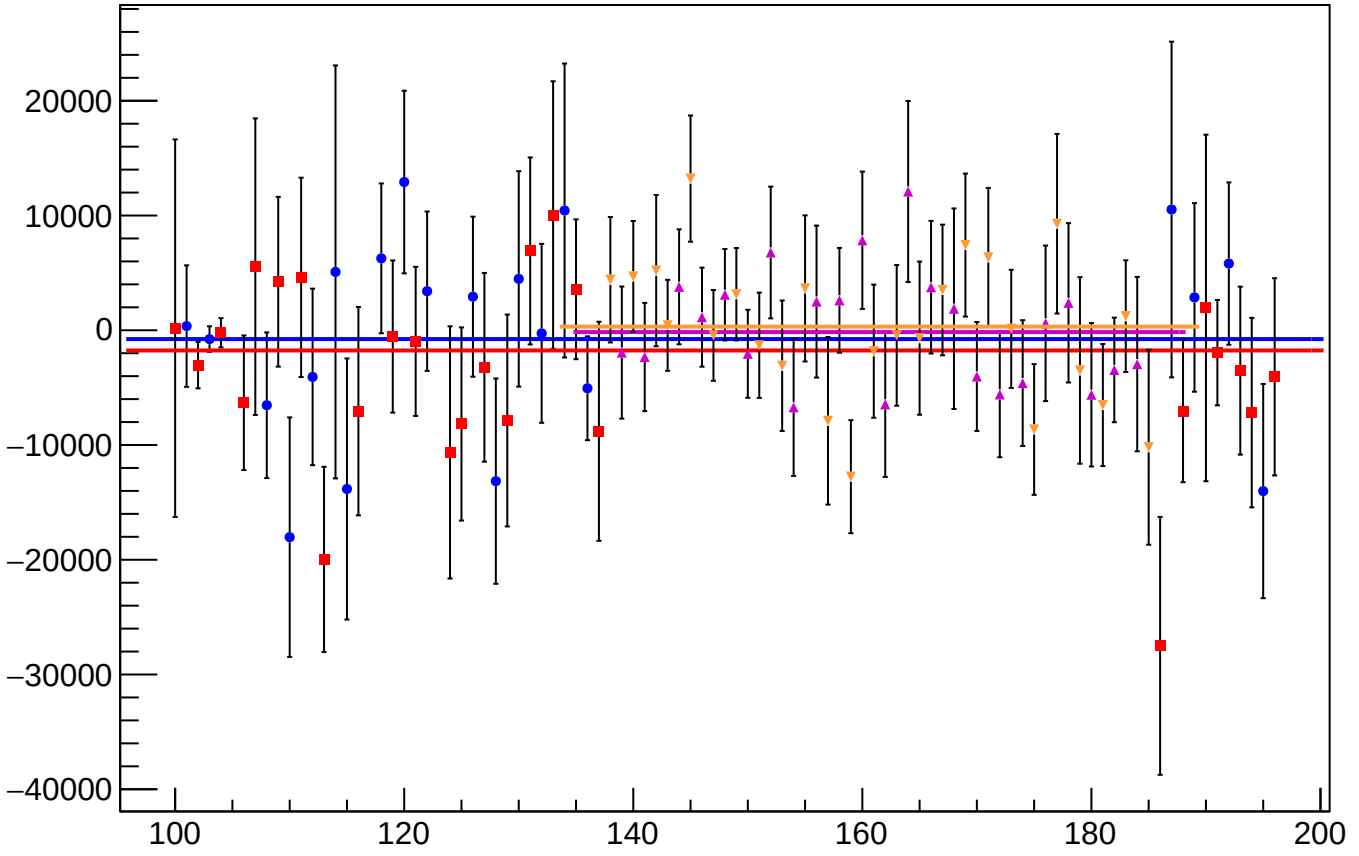
Right: 1866.296+/-0.287 $\chi^2$/NDF: 785522.1/45

In: 1749.012+/-0.234 $\chi^2$/NDF:370835.7/42

Out: 1767.317+/-0.226 $\chi^2$/NDF:701259.8/50

All: 1758.494+/-0.162 $\chi^2$/NDF: 1075270.1/93

asym_atl1r2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -767.896+/-940.905 $\chi^2$/NDF: 17.5/19

Left Out: 314.084+/-1091.975 $\chi^2$/NDF:27.0/24

Right Out: -1760.810+/-896.234 $\chi^2$/NDF: 21.2/25

Left In: -157.977+/-1128.443 $\chi^2$/NDF:14.7/22

Left: 85.804+/-784.719 $\chi^2$/NDF: 41.8/47

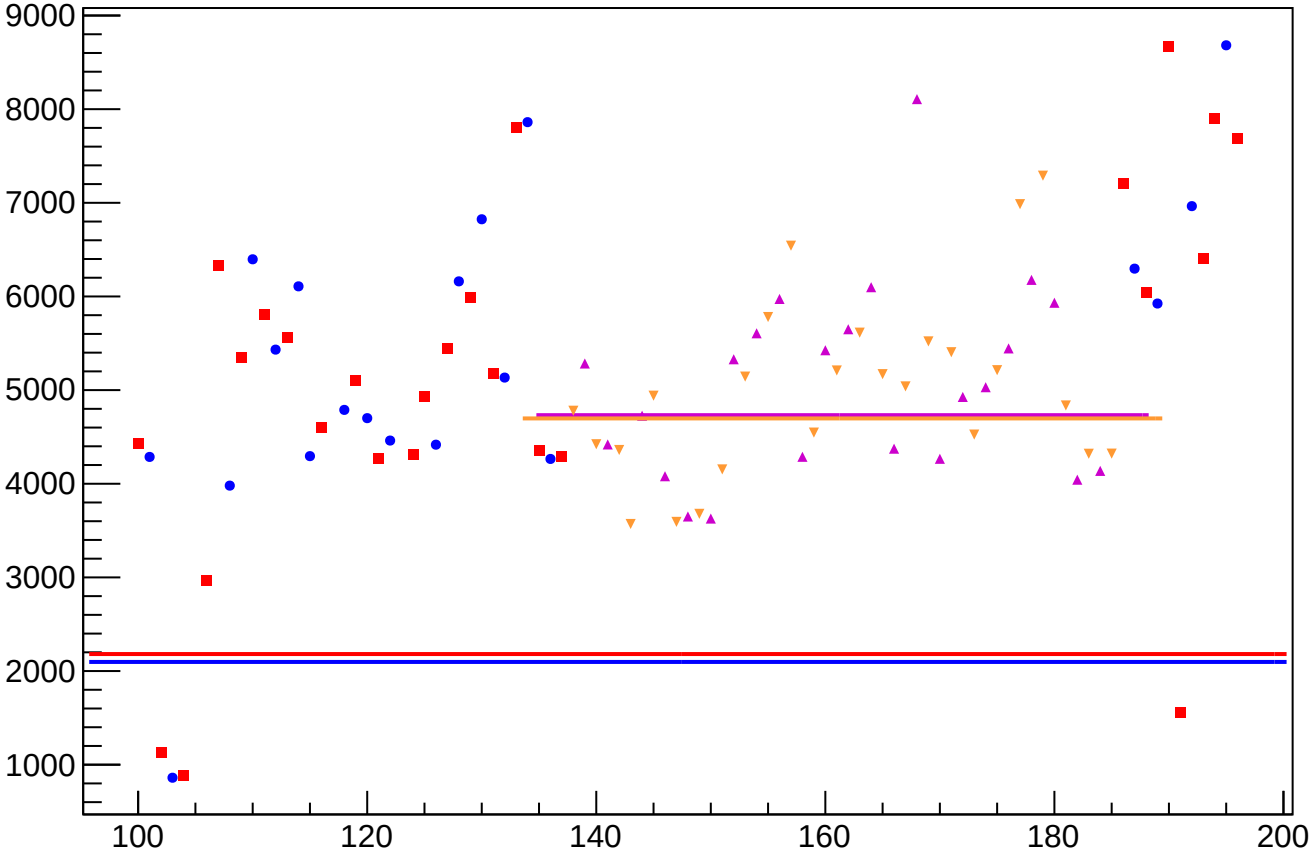
Right: -1288.482+/-648.951 $\chi^2$/NDF: 39.4/45

In: -517.761+/-722.654 $\chi^2$/NDF:32.4/42

Out: -925.677+/-692.775 $\chi^2$/NDF:50.4/50

All: -730.326+/-500.096 $\chi^2$/NDF: 83.0/93

asym_atl1r2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 2097.238+/-0.665 $\chi^2$/NDF: 9506198.0/19

Left Out: 4697.618+/-0.772 $\chi^2$/NDF:1239387.1/24

Right Out: 2181.555+/-0.634 $\chi^2$/NDF: 10743970.4/25

Left In: 4732.421+/-0.798 $\chi^2$/NDF:1242809.3/22

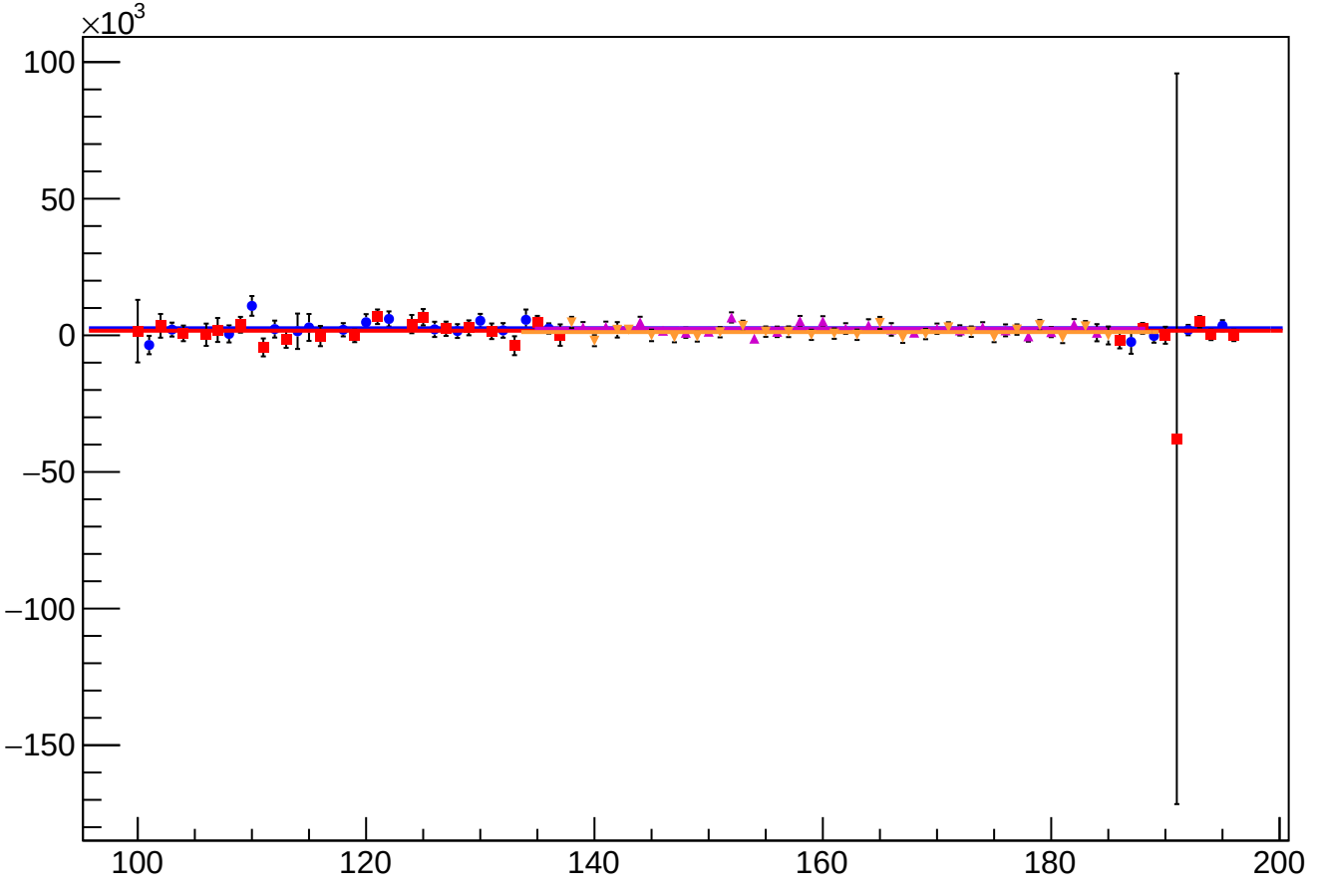
Left: 4714.448+/-0.555 $\chi^2$/NDF: 2483178.9/47

Right: 2141.445+/-0.459 $\chi^2$/NDF: 20258589.1/45

In: 3177.957+/-0.511 $\chi^2$/NDF:17182729.7/42

Out: 3194.255+/-0.490 $\chi^2$/NDF:18327749.7/50

All: 3186.450+/-0.354 $\chi^2$/NDF: 35511009.5/9




Right In: 2585.458+/-611.261 $\chi^2$/NDF: 16.2/19

Left Out: 1197.362+/-392.981 $\chi^2$/NDF:19.5/24

Right Out: 1698.190+/-567.301 $\chi^2$/NDF: 22.9/25

Left In: 2438.062+/-407.551 $\chi^2$/NDF:20.6/22

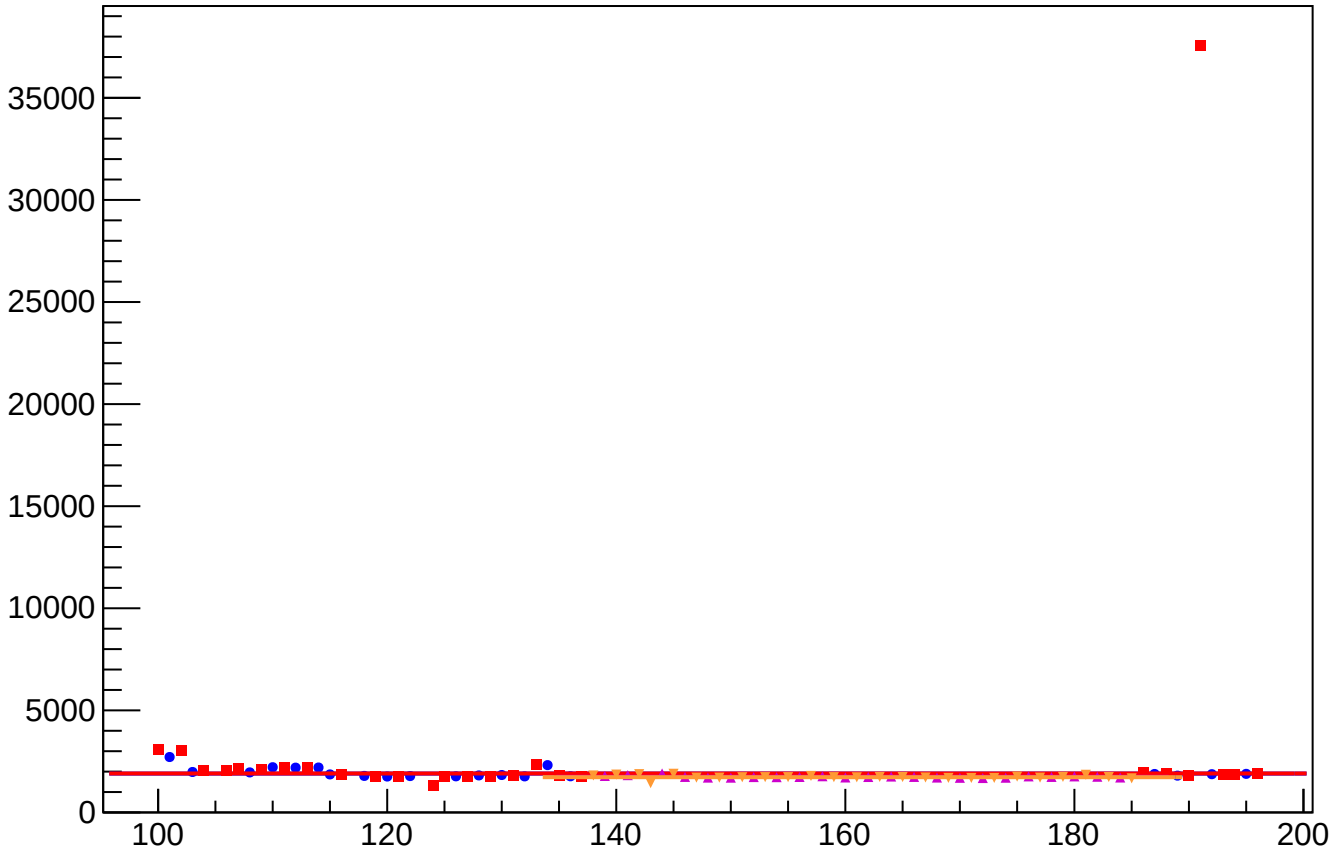
Left: 1795.138+/-282.890 $\chi^2$/NDF: 44.9/47

Right: 2108.775+/-415.816 $\chi^2$/NDF: 40.2/45

In: 2483.421+/-339.092 $\chi^2$/NDF:36.8/42

Out: 1359.761+/-323.044 $\chi^2$/NDF:42.9/50

All: 1894.373+/-233.894 $\chi^2$/NDF: 85.5/93




Right In: 1903.502+/-0.432 $\chi^2$/NDF: 220332.3/19

Left Out: 1727.235+/-0.278 $\chi^2$/NDF:110270.9/24

Right Out: 1909.144+/-0.401 $\chi^2$/NDF: 497992.3/25

Left In: 1744.633+/-0.288 $\chi^2$/NDF:26798.0/22

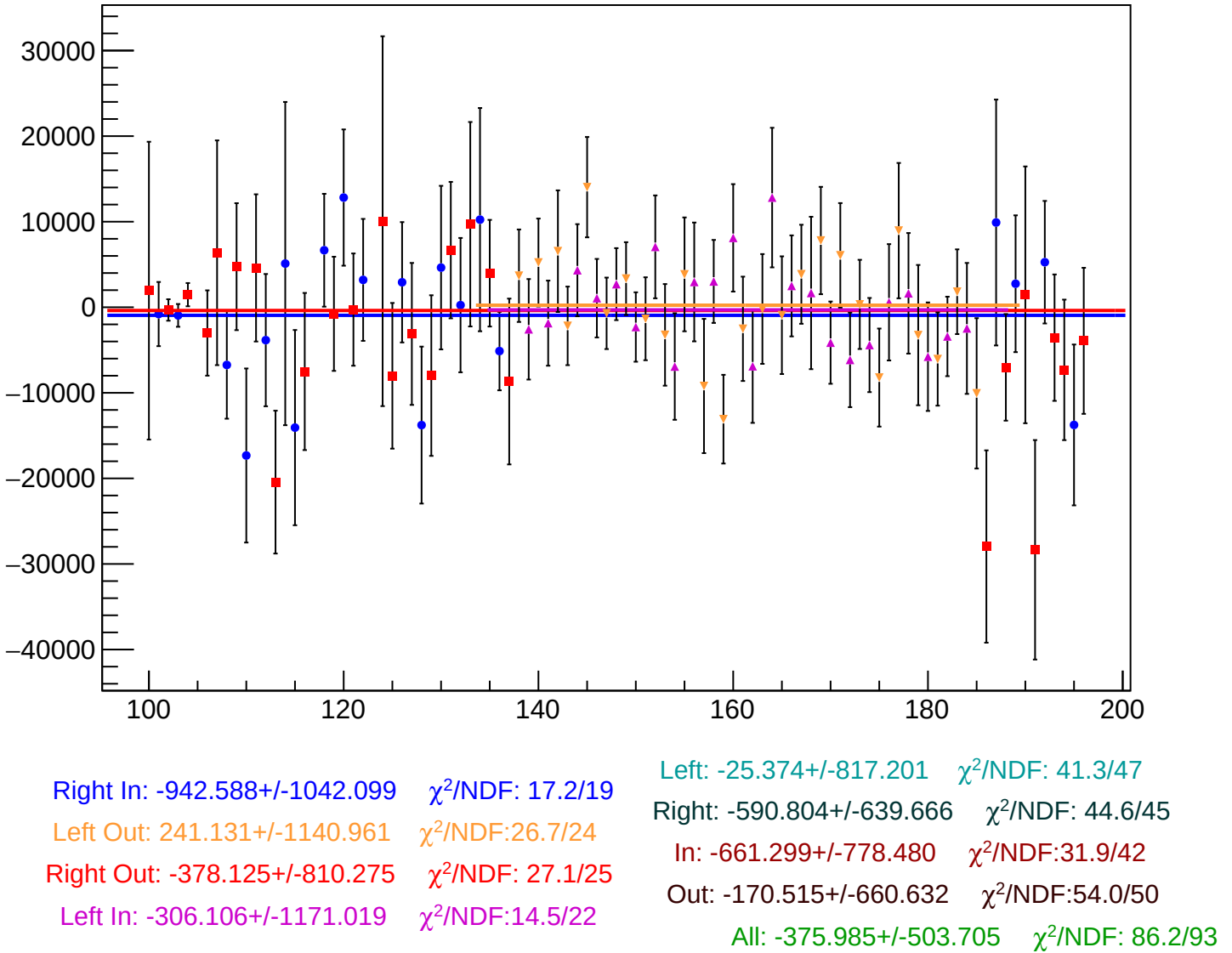
Left: 1735.617+/-0.200 $\chi^2$/NDF: 138957.4/47

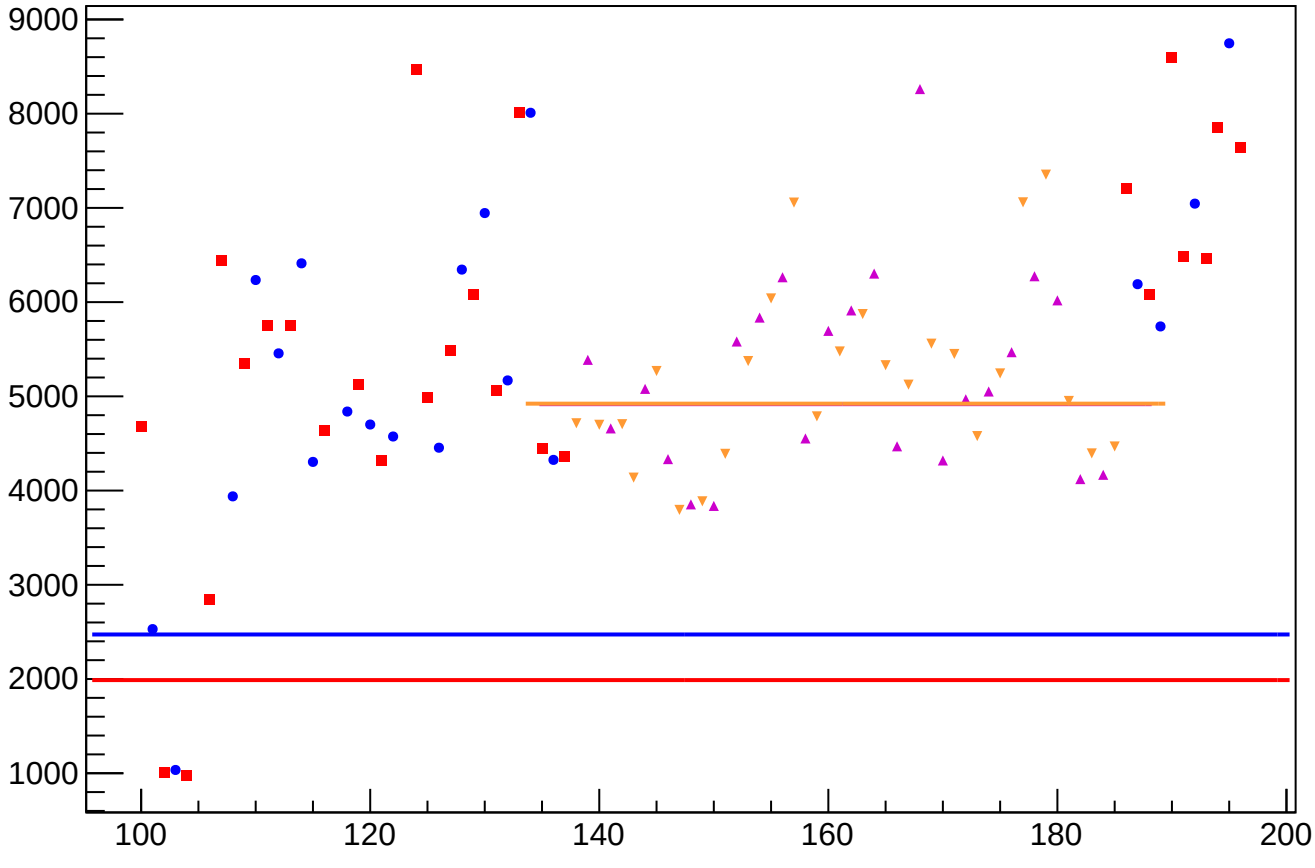
Right: 1906.535+/-0.294 $\chi^2$/NDF: 718416.1/45

In: 1793.523+/-0.240 $\chi^2$/NDF:340655.4/42

Out: 1786.262+/-0.228 $\chi^2$/NDF:747318.6/50

All: 1789.716+/-0.165 $\chi^2$/NDF: 1088454.9/93


asym_atl1r2_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -942.588+/-1042.099 χ²/NDF: 17.2/19
Left Out: 241.131+/-1140.961 χ²/NDF:26.7/24
Right Out: -378.125+/-810.275 χ²/NDF: 27.1/25
Left In: -306.106+/-1171.019 χ²/NDF:14.5/22
Left: -25.374+/-817.201 χ²/NDF: 41.3/47
Right: -590.804+/-639.666 χ²/NDF: 44.6/45
In: -661.299+/-778.480 χ²/NDF:31.9/42
Out: -170.515+/-660.632 χ²/NDF:54.0/50
All: -375.985+/-503.705 χ²/NDF: 86.2/93




Right In: 2472.682+/-0.737 $\chi^2$/NDF: 7795033.2/19

Left Out: 4922.380+/-0.807 $\chi^2$/NDF:1050408.0/24

Right Out: 1988.584+/-0.573 $\chi^2$/NDF: 11699080.1/25

Left In: 4916.964+/-0.828 $\chi^2$/NDF:1161642.5/22

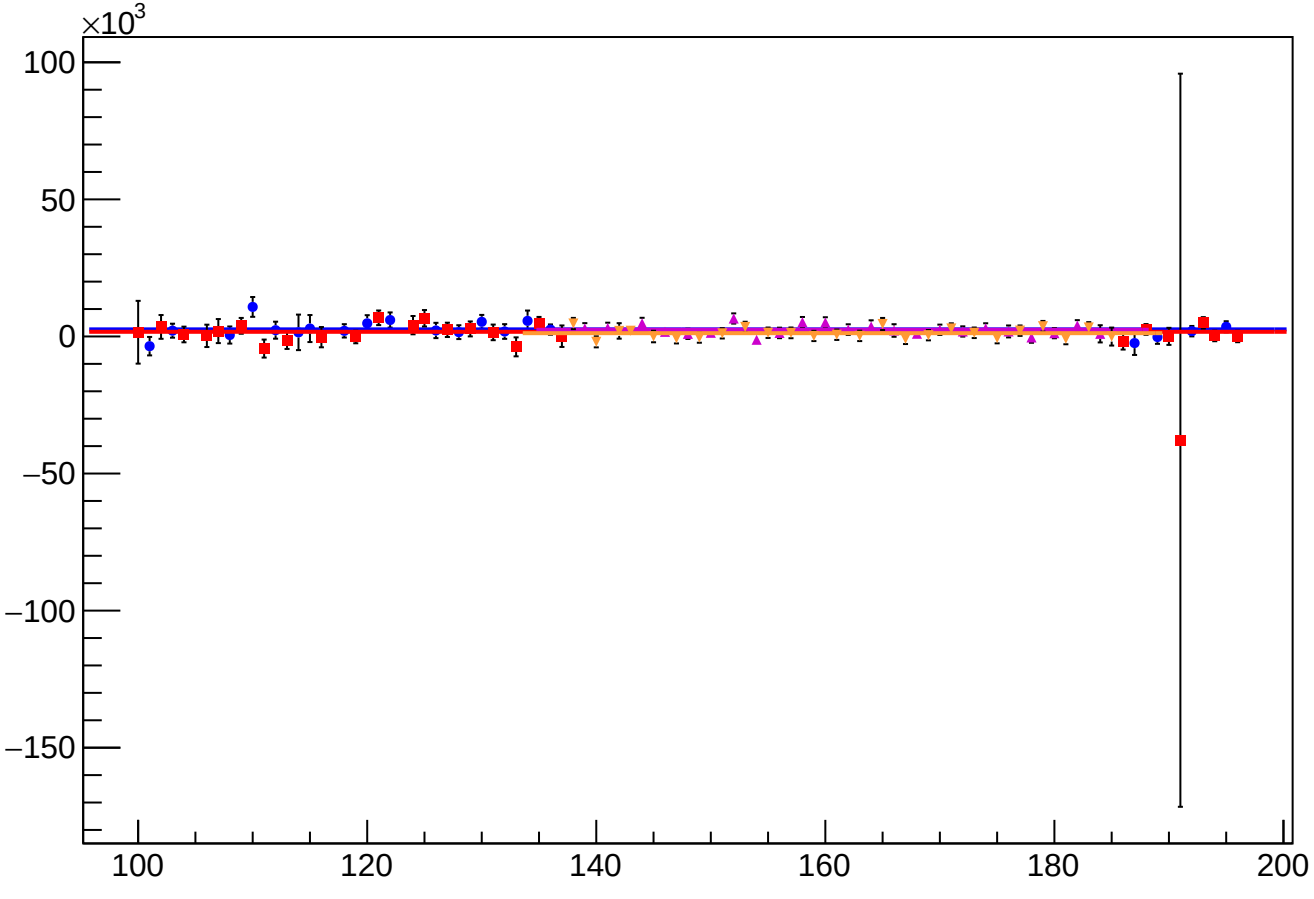
Left: 4919.742+/-0.578 $\chi^2$/NDF: 2212072.5/47

Right: 2170.983+/-0.452 $\chi^2$/NDF: 19763092.9/45

In: 3552.918+/-0.550 $\chi^2$/NDF:13819433.0/42

Out: 2972.160+/-0.467 $\chi^2$/NDF:21539760.3/50

All: 3215.298+/-0.356 $\chi^2$/NDF: 36006276.0/9




Right In: 2585.457+/-611.261 $\chi^2$/NDF: 16.2/19

Left Out: 1197.356+/-392.981 $\chi^2$/NDF:19.5/24

Right Out: 1698.192+/-567.301 $\chi^2$/NDF: 22.9/25

Left In: 2438.062+/-407.552 $\chi^2$/NDF:20.6/22

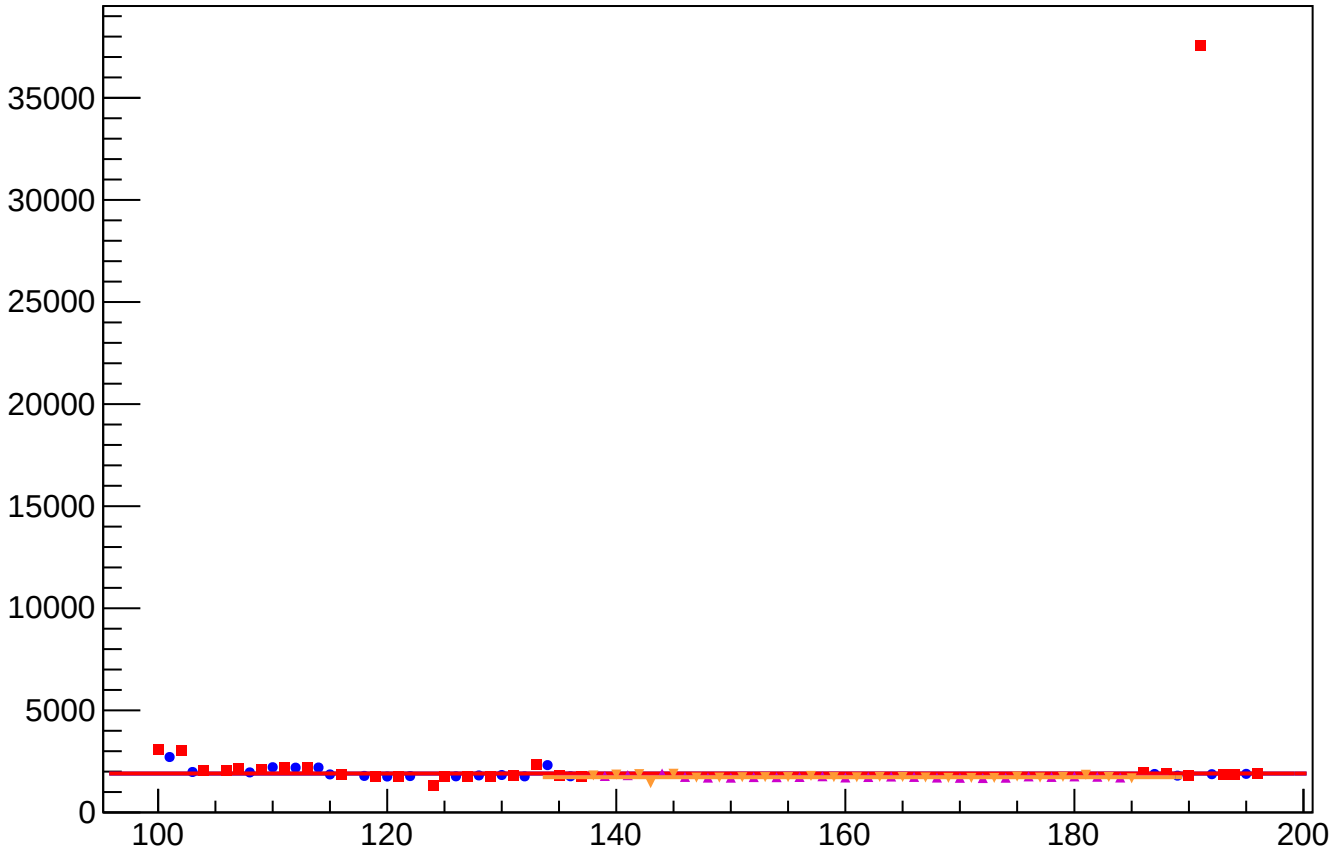
Left: 1795.135+/-282.891 $\chi^2$/NDF: 44.9/47

Right: 2108.776+/-415.816 $\chi^2$/NDF: 40.2/45

In: 2483.421+/-339.092 $\chi^2$/NDF:36.8/42

Out: 1359.758+/-323.044 $\chi^2$/NDF:42.9/50

All: 1894.371+/-233.894 $\chi^2$/NDF: 85.5/93




Right In: 1903.502+/-0.432 $\chi^2$/NDF: 220332.5/19

Left Out: 1727.236+/-0.278 $\chi^2$/NDF:110269.9/24

Right Out: 1909.144+/-0.401 $\chi^2$/NDF: 497991.2/25

Left In: 1744.633+/-0.288 $\chi^2$/NDF:26798.0/22

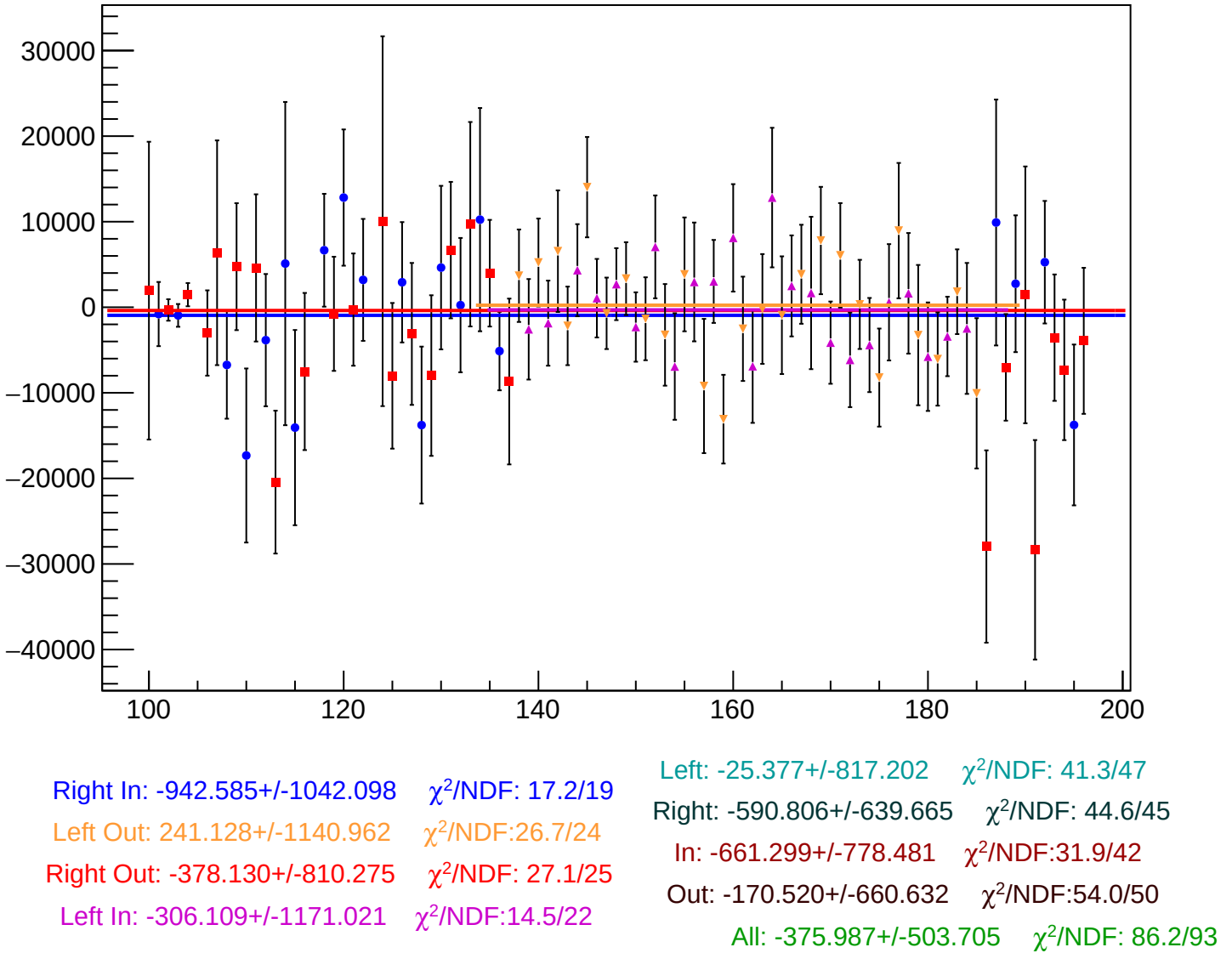
Left: 1735.618+/-0.200 $\chi^2$/NDF: 138956.4/47

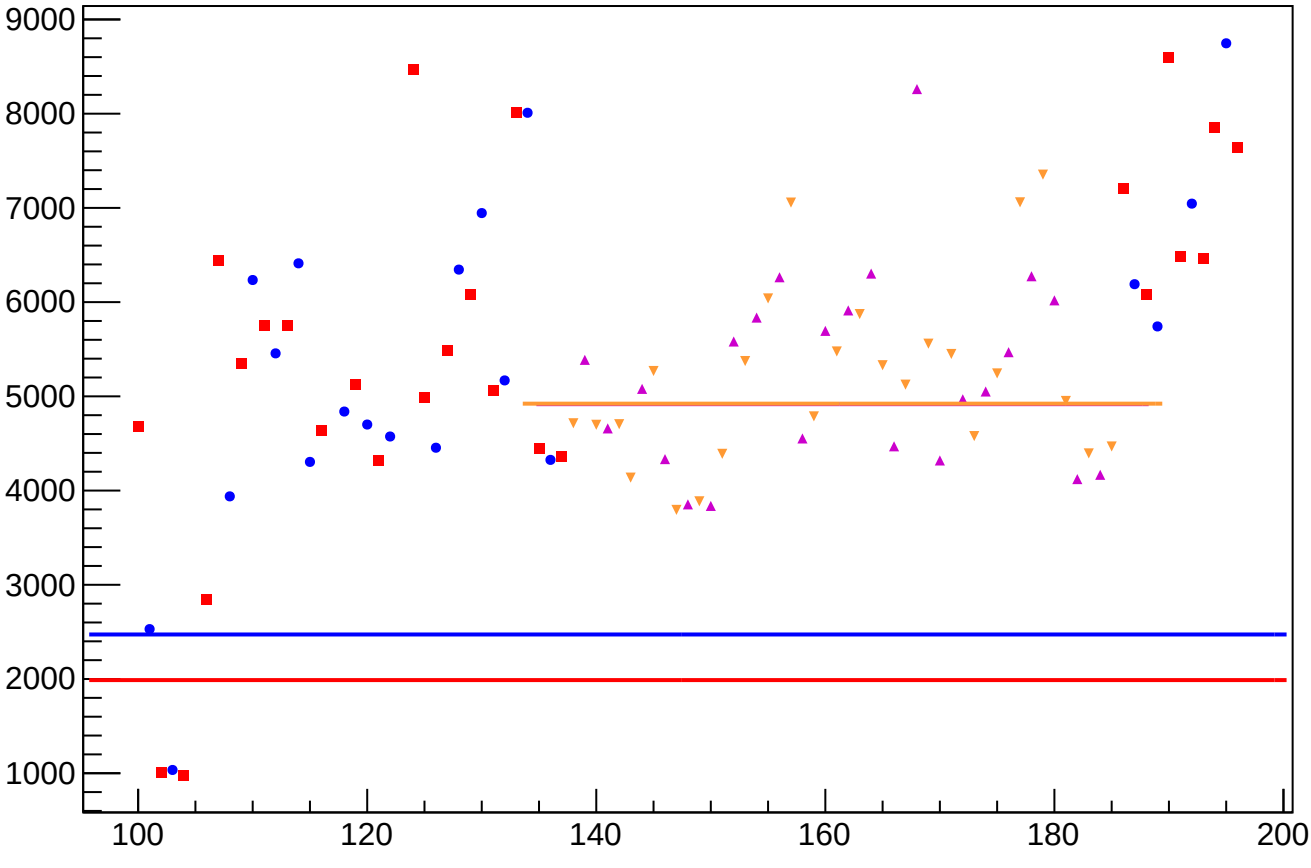
Right: 1906.534+/-0.294 $\chi^2$/NDF: 718415.3/45

In: 1793.523+/-0.240 $\chi^2$/NDF:340653.9/42

Out: 1786.262+/-0.228 $\chi^2$/NDF:747314.8/50

All: 1789.716+/-0.165 $\chi^2$/NDF: 1088449.5/93


asym_atl1r2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -942.585+/-1042.098 χ²/NDF: 17.2/19
Left Out: 241.128+/-1140.962 χ²/NDF:26.7/24
Right Out: -378.130+/-810.275 χ²/NDF: 27.1/25
Left In: -306.109+/-1171.021 χ²/NDF:14.5/22
Left: -25.377+/-817.202 χ²/NDF: 41.3/47
Right: -590.806+/-639.665 χ²/NDF: 44.6/45
In: -661.299+/-778.481 χ²/NDF:31.9/42
Out: -170.520+/-660.632 χ²/NDF:54.0/50
All: -375.987+/-503.705 χ²/NDF: 86.2/93




Right In: 2472.681+/-0.737 $\chi^2$/NDF: 7795029.8/19

Left Out: 4922.388+/-0.807 $\chi^2$/NDF:1050409.4/24

Right Out: 1988.584+/-0.573 $\chi^2$/NDF: 11699073.3/25

Left In: 4916.972+/-0.828 $\chi^2$/NDF:1161645.9/22

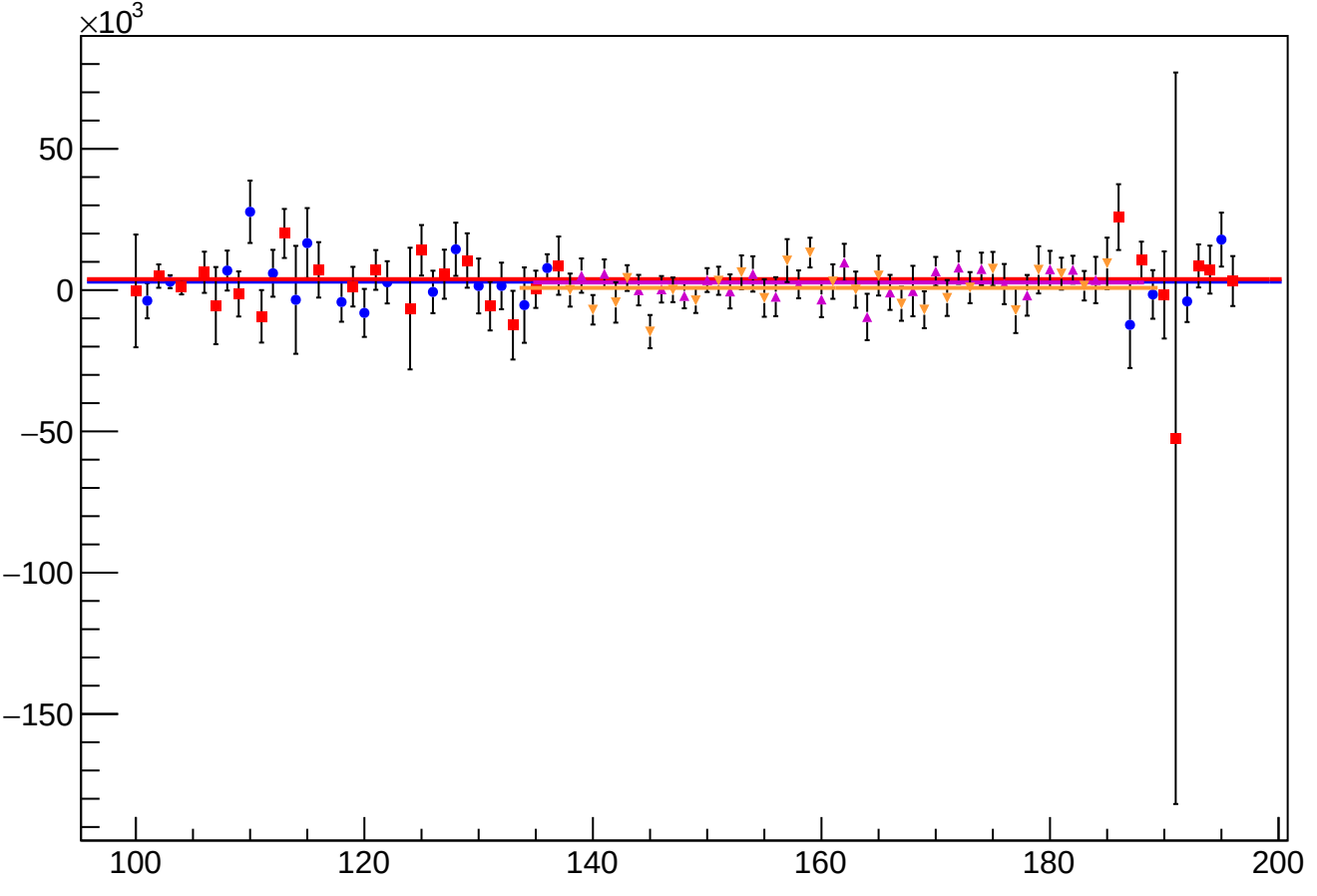
Left: 4919.750+/-0.578 $\chi^2$/NDF: 2212077.2/47

Right: 2170.982+/-0.452 $\chi^2$/NDF: 19763082.3/45

In: 3552.918+/-0.550 $\chi^2$/NDF:13819462.4/42

Out: 2972.159+/-0.467 $\chi^2$/NDF:21539791.1/50

All: 3215.297+/-0.356 $\chi^2$/NDF: 36006337.2/9




Right In: 2993.294+/-1459.436 $\chi^2$/NDF: 18.4/19

Left Out: 787.965+/-1171.964 $\chi^2$/NDF:27.6/24

Right Out: 3878.328+/-1422.494 $\chi^2$/NDF: 19.3/25

Left In: 2705.532+/-1206.281 $\chi^2$/NDF:11.9/22

Left: 1719.085+/-840.574 $\chi^2$/NDF: 40.8/47

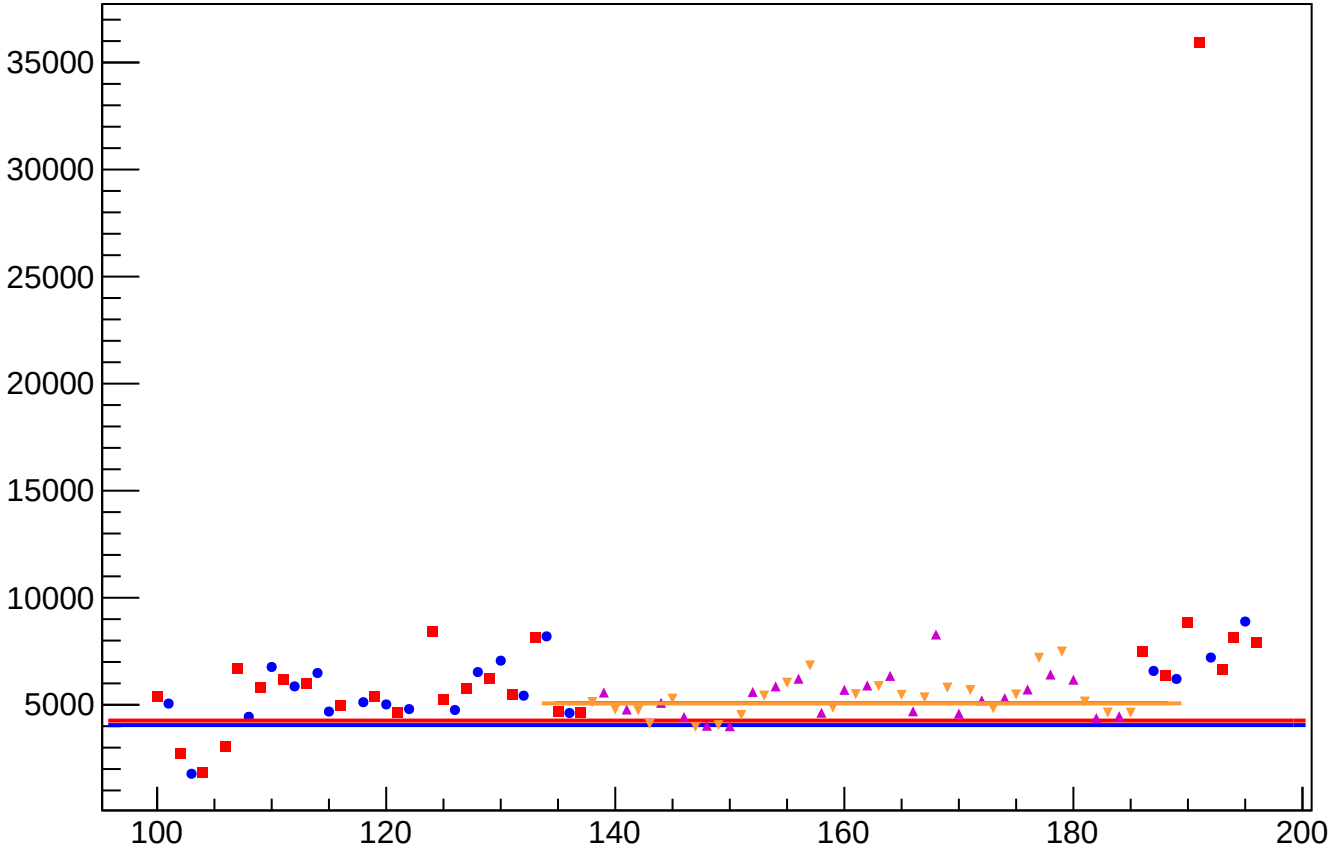
Right: 3447.154+/-1018.665 $\chi^2$/NDF: 37.9/45

In: 2822.330+/-929.790 $\chi^2$/NDF:30.4/42

Out: 2037.487+/-904.519 $\chi^2$/NDF:49.7/50

All: 2419.098+/-648.342 $\chi^2$/NDF: 80.4/93

# asym_atl1r2_avg_rms vs Slug, Sign Corrected




Right In: 4052.683+/-1.032 $\chi^2$/NDF: 4059847.5/19

Left Out: 5067.898+/-0.829 $\chi^2$/NDF:954253.8/24

Right Out: 4263.677+/-0.997 $\chi^2$/NDF: 4566247.6/25

Left In: 5079.715+/-0.853 $\chi^2$/NDF:1001241.5/22

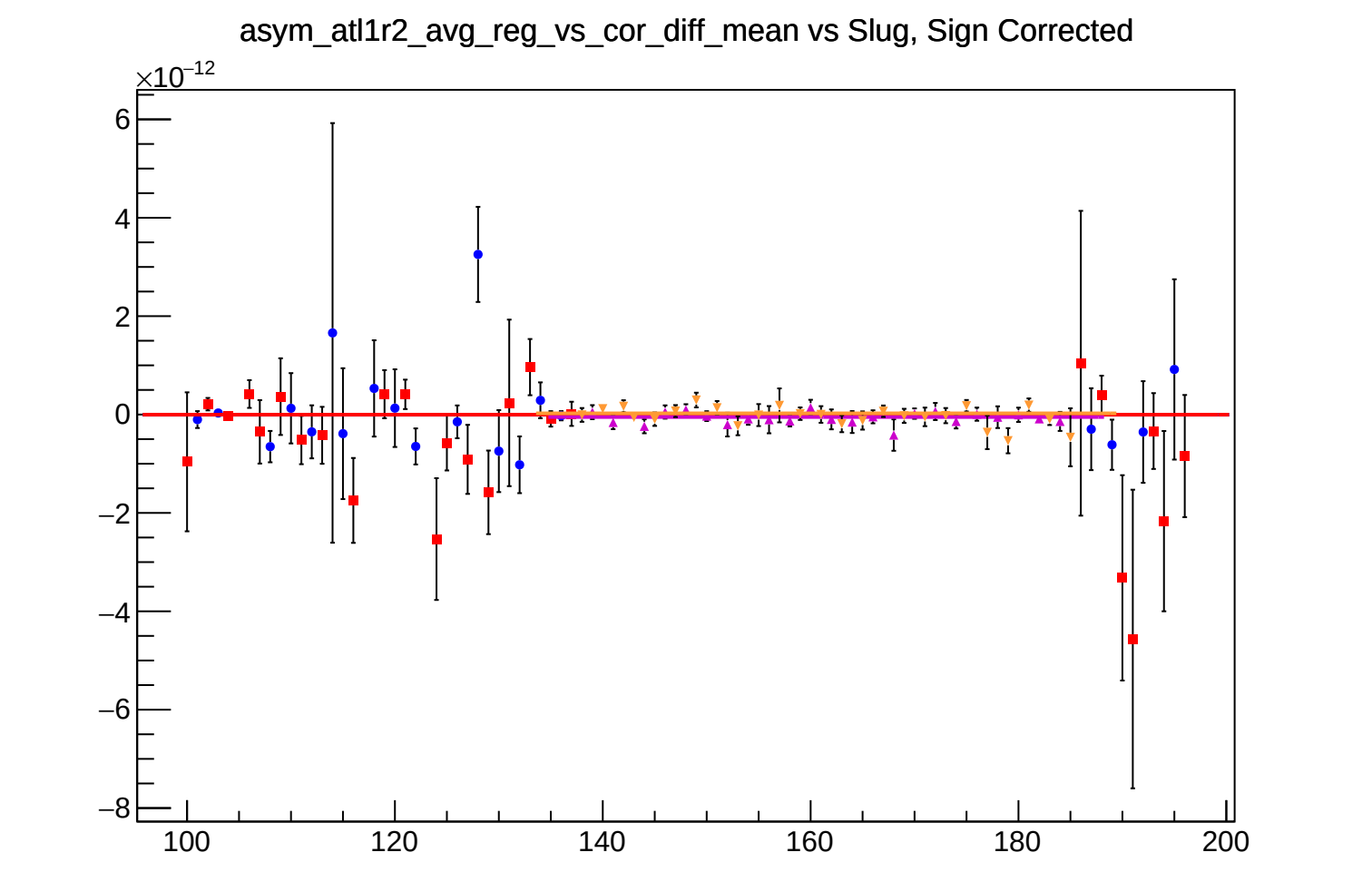
Left: 5073.636+/-0.594 $\chi^2$/NDF: 1955594.0/47

Right: 4161.774+/-0.717 $\chi^2$/NDF: 8647708.4/45

In: 4662.861+/-0.657 $\chi^2$/NDF:5649526.3/42

Out: 4739.452+/-0.637 $\chi^2$/NDF:5905128.4/50

All: 4702.343+/-0.458 $\chi^2$/NDF: 11561650.5/9




Right In: -0.000+/-0.000 $\chi^2$/NDF: 27.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:23.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 36.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.0/22

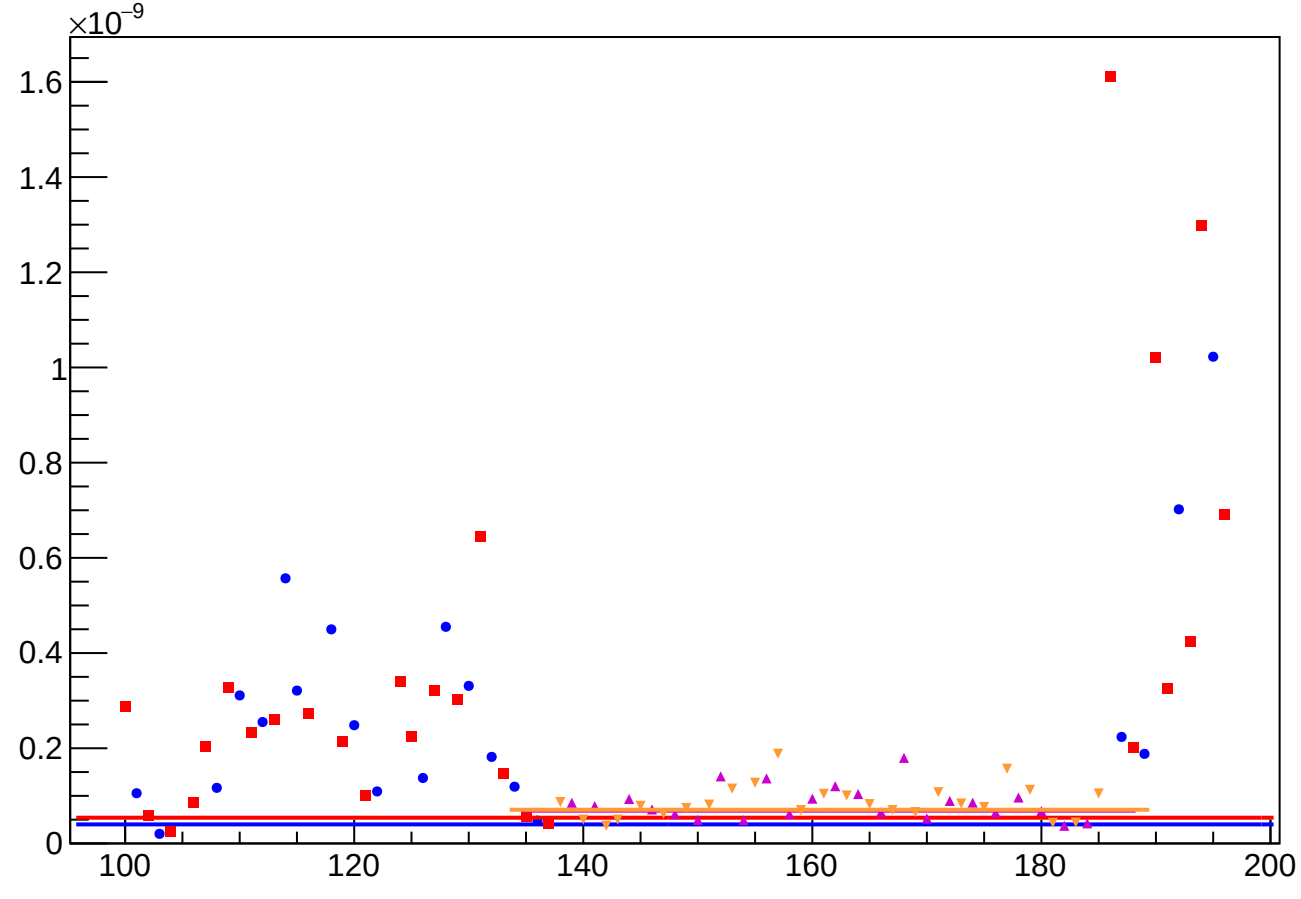
Left: -0.000+/-0.000 $\chi^2$/NDF: 37.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 63.5/45

In: -0.000+/-0.000 $\chi^2$/NDF:39.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:60.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 101.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4811350.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1489228.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6069420.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1432116.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 2925873.0/47

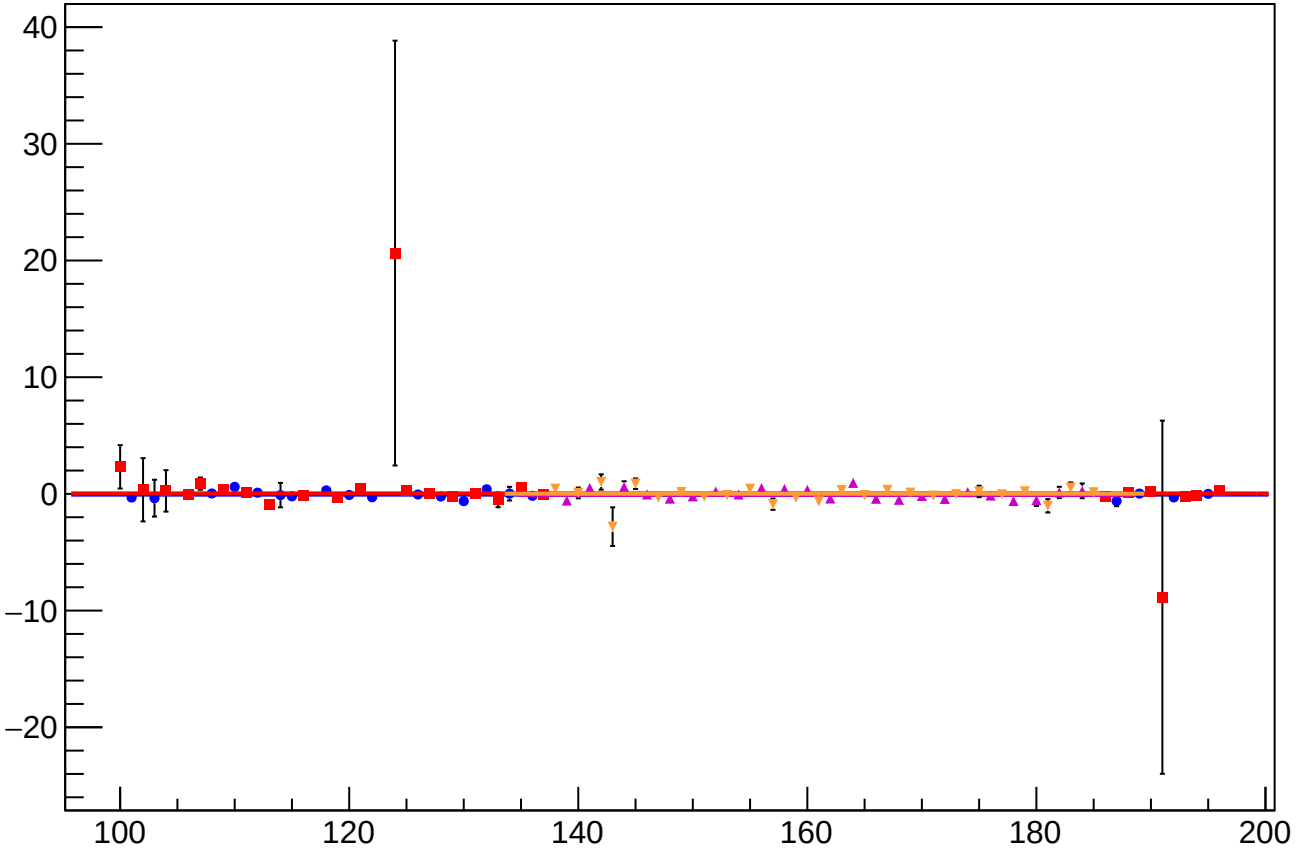
Right: 0.000+/-0.000 $\chi^2$/NDF: 11001366.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:7009974.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7758512.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 14898209.0/93

asym_atl1r2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.064+/-0.069 $\chi^2$/NDF: 14.2/19

Left Out: 0.014+/-0.070 $\chi^2$/NDF:28.3/24

Right Out: 0.043+/-0.056 $\chi^2$/NDF: 27.3/25

Left In: -0.091+/-0.070 $\chi^2$/NDF:30.9/22

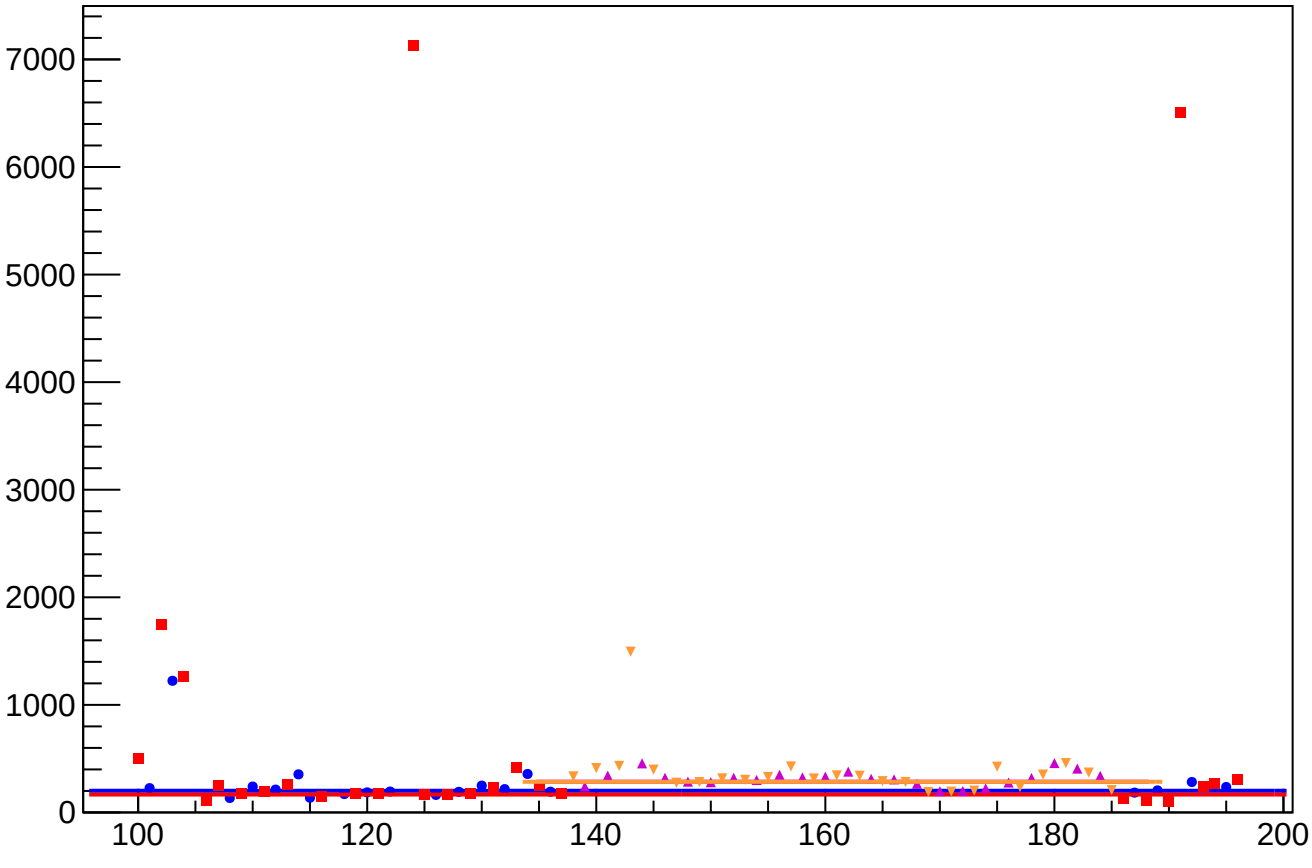
Left: -0.038+/-0.050 $\chi^2$/NDF: 60.3/47

Right: 0.001+/-0.044 $\chi^2$/NDF: 42.9/45

In: -0.077+/-0.049 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.044 $\chi^2$/NDF:55.7/50

All: -0.016+/-0.033 $\chi^2$/NDF: 103.5/93




Right In: 201.648+/-0.049 $\chi^2$/NDF: 1623081.6/19

Left Out: 285.036+/-0.049 $\chi^2$/NDF:3407001.6/24

Right Out: 166.354+/-0.040 $\chi^2$/NDF: 4400534.3/25

Left In: 285.869+/-0.050 $\chi^2$/NDF:1744706.1/22

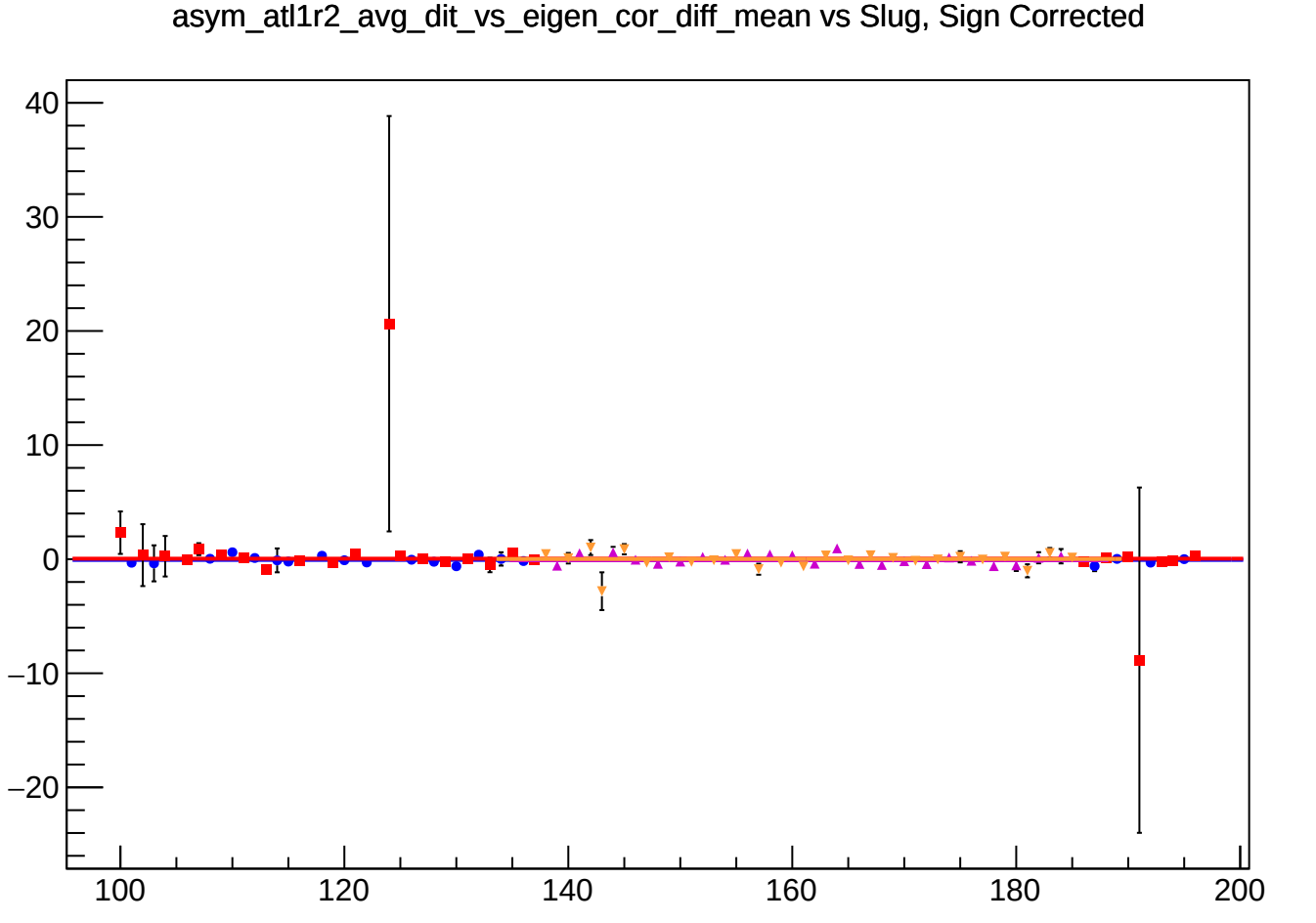
Left: 285.449+/-0.035 $\chi^2$/NDF: 5151848.7/47

Right: 180.333+/-0.031 $\chi^2$/NDF: 6335190.1/45

In: 243.201+/-0.035 $\chi^2$/NDF:4817171.0/42

Out: 213.092+/-0.031 $\chi^2$/NDF:11310577.6/50

All: 226.331+/-0.023 $\chi^2$/NDF: 16543007.1/93




Right In: -0.064+/-0.069 $\chi^2$/NDF: 14.2/19

Left Out: 0.014+/-0.070 $\chi^2$/NDF:28.3/24

Right Out: 0.043+/-0.056 $\chi^2$/NDF: 27.3/25

Left In: -0.091+/-0.070 $\chi^2$/NDF:30.9/22

Left: -0.038+/-0.050 $\chi^2$/NDF: 60.3/47

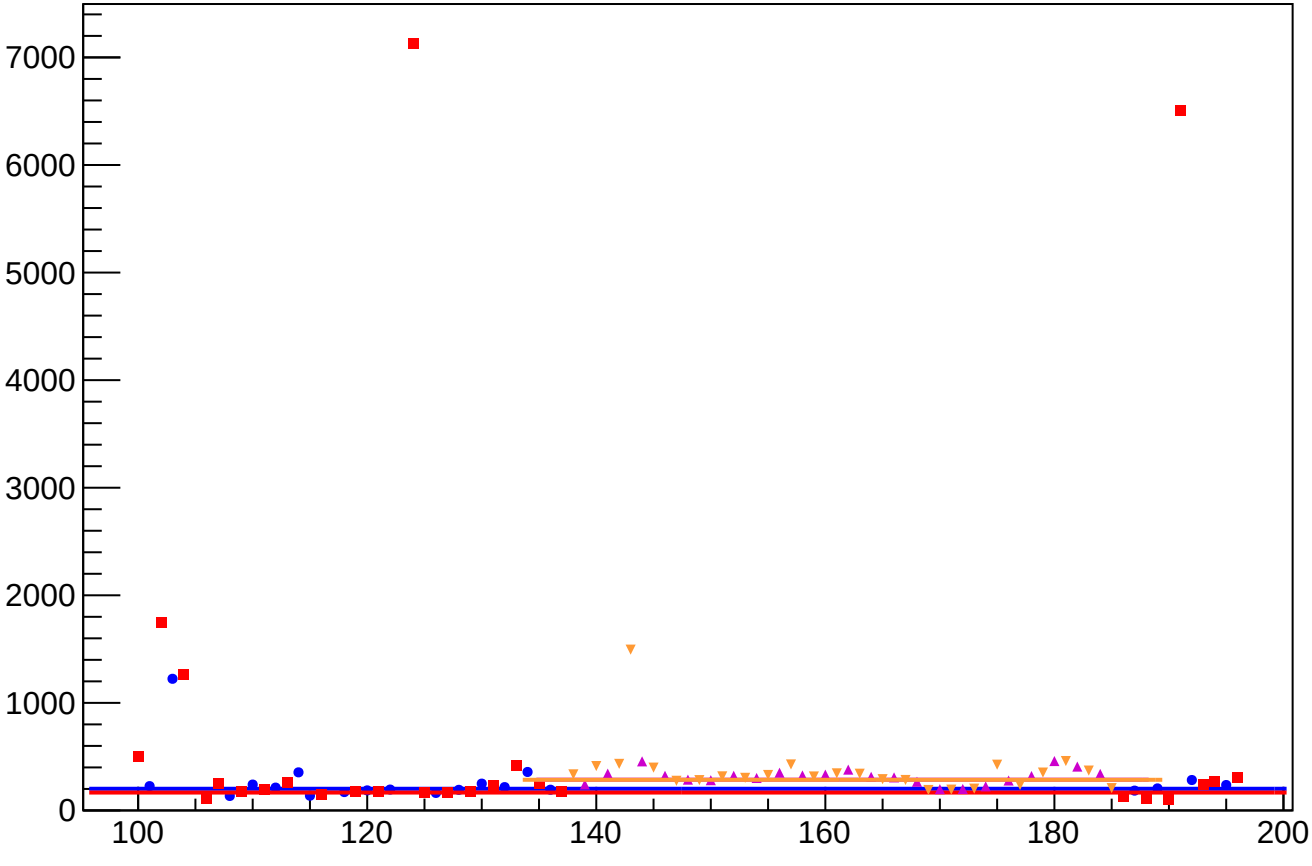
Right: 0.001+/-0.044 $\chi^2$/NDF: 42.9/45

In: -0.077+/-0.049 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.044 $\chi^2$/NDF:55.7/50

All: -0.016+/-0.033 $\chi^2$/NDF: 103.5/93

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 201.648+/-0.049 $\chi^2$/NDF: 1623081.6/19

Left Out: 285.036+/-0.049 $\chi^2$/NDF:3407001.6/24

Right Out: 166.354+/-0.040 $\chi^2$/NDF: 4400534.3/25

Left In: 285.869+/-0.050 $\chi^2$/NDF:1744706.1/22

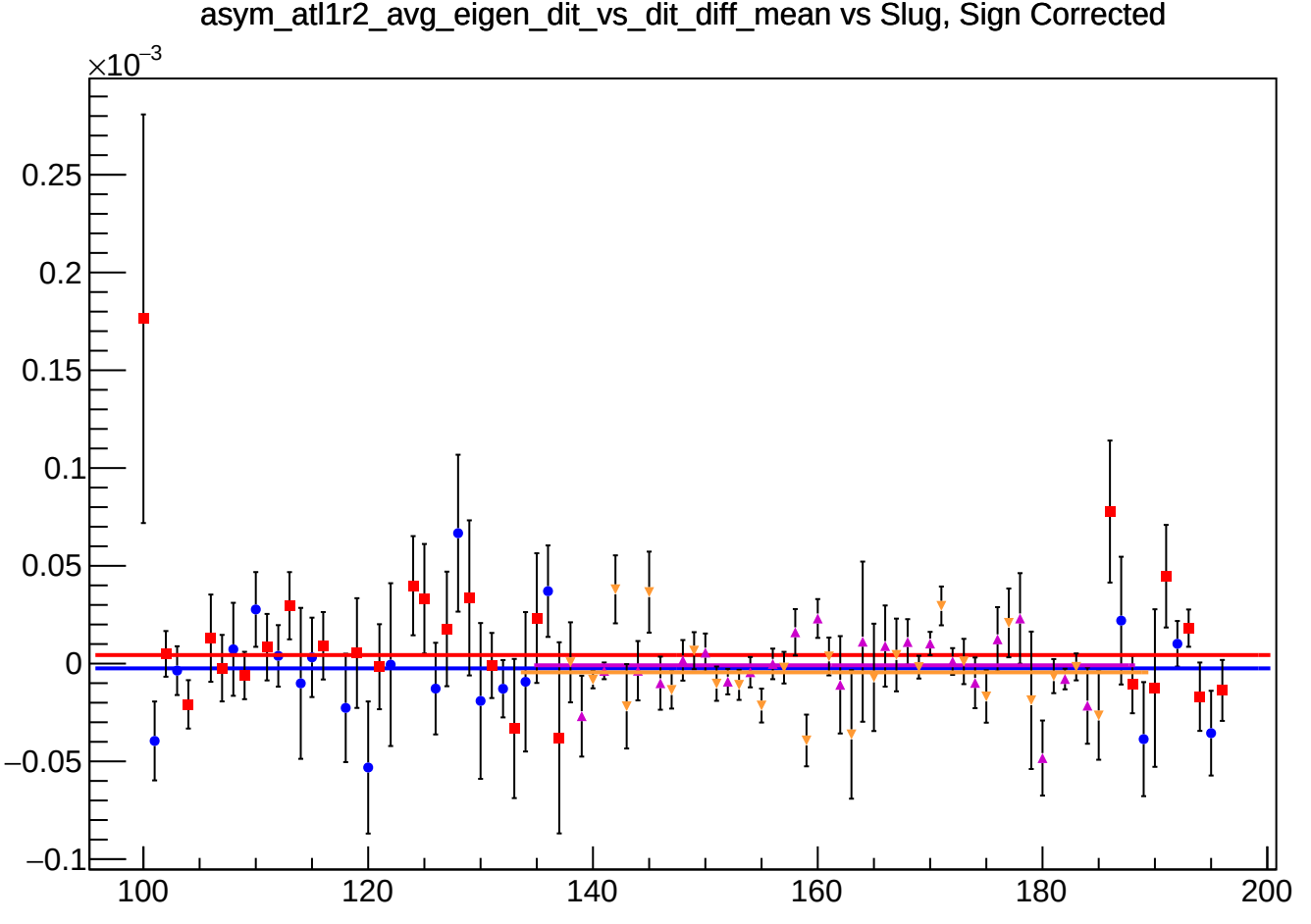
Left: 285.449+/-0.035 $\chi^2$/NDF: 5151848.7/47

Right: 180.333+/-0.031 $\chi^2$/NDF: 6335190.1/45

In: 243.201+/-0.035 $\chi^2$/NDF:4817171.0/42

Out: 213.092+/-0.031 $\chi^2$/NDF:11310577.6/50

All: 226.331+/-0.023 $\chi^2$/NDF: 16543007.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:43.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 28.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.0/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 74.6/47

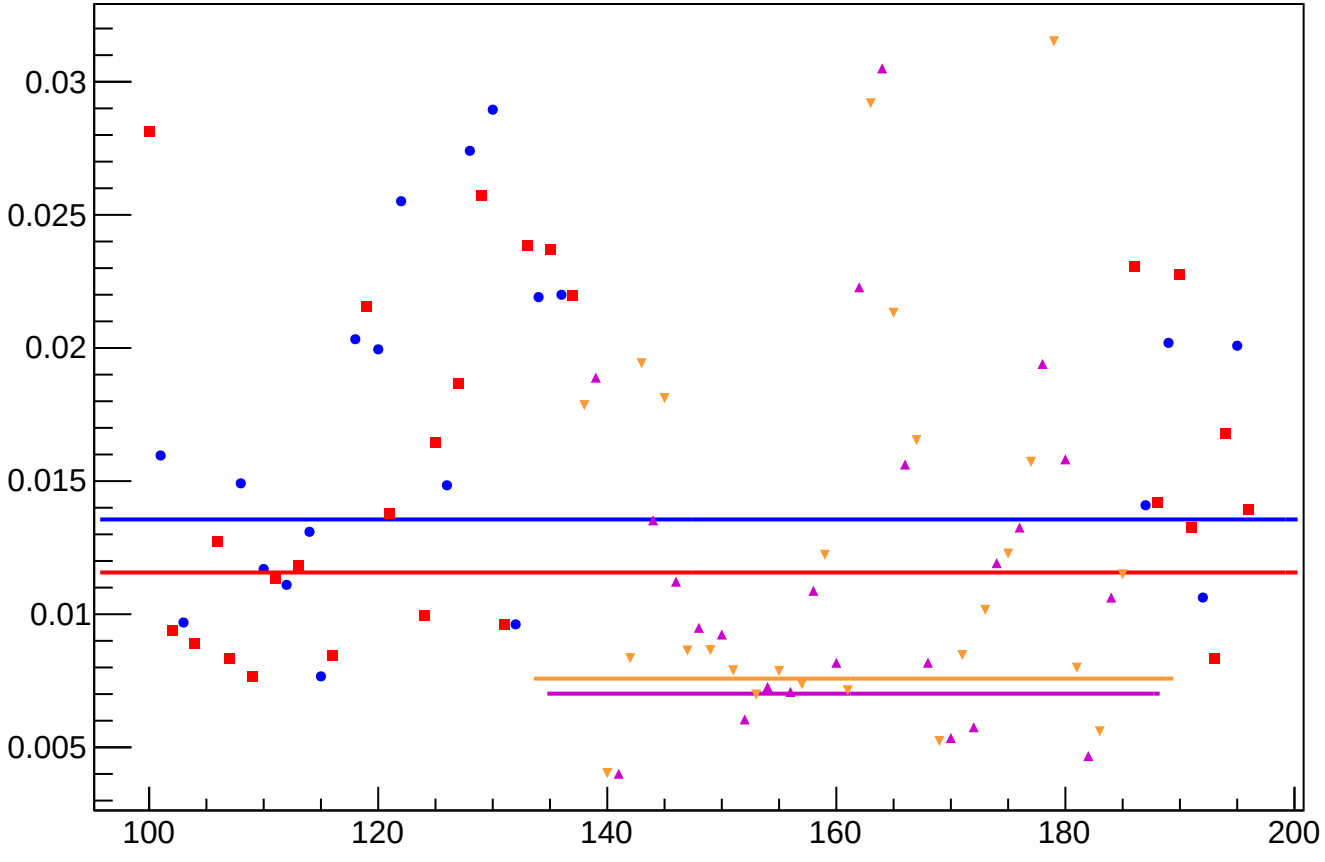
Right: 0.000+/-0.000 $\chi^2$/NDF: 51.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:50.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:77.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 128.2/93

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 2289567.4/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:7351454.7/24

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 2785673.9/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:6740679.5/22

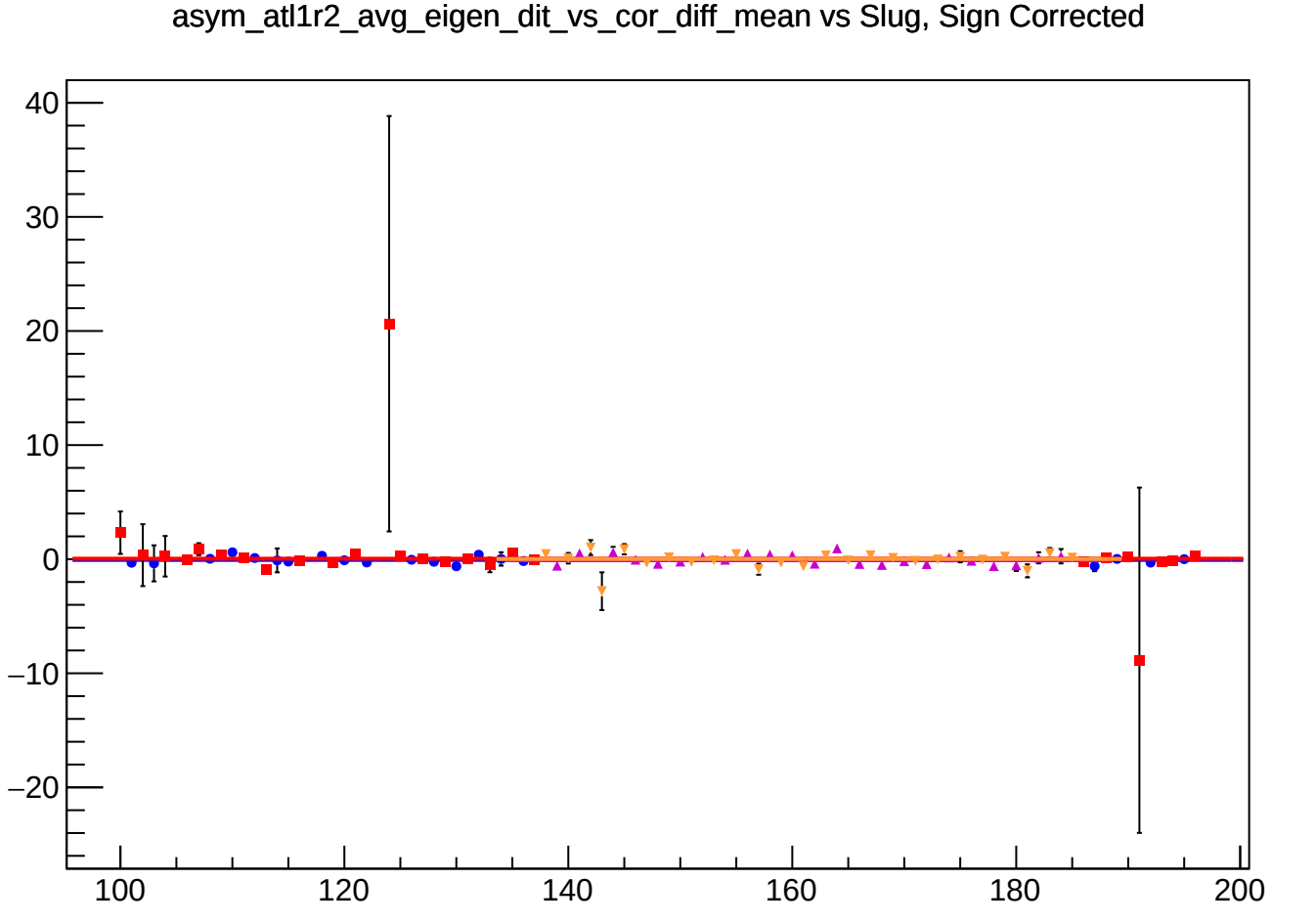
Left: 0.007+/-0.000 $\chi^2$/NDF: 14177078.3/47

Right: 0.012+/-0.000 $\chi^2$/NDF: 5300125.4/45

In: 0.008+/-0.000 $\chi^2$/NDF:12355984.9/42

Out: 0.008+/-0.000 $\chi^2$/NDF:12002398.0/50

All: 0.008+/-0.000 $\chi^2$/NDF: 24457115.7/93




Right In: -0.064+/-0.069 $\chi^2$/NDF: 14.2/19

Left Out: 0.014+/-0.070 $\chi^2$/NDF:28.3/24

Right Out: 0.043+/-0.056 $\chi^2$/NDF: 27.3/25

Left In: -0.091+/-0.070 $\chi^2$/NDF:30.9/22

Left: -0.038+/-0.050 $\chi^2$/NDF: 60.3/47

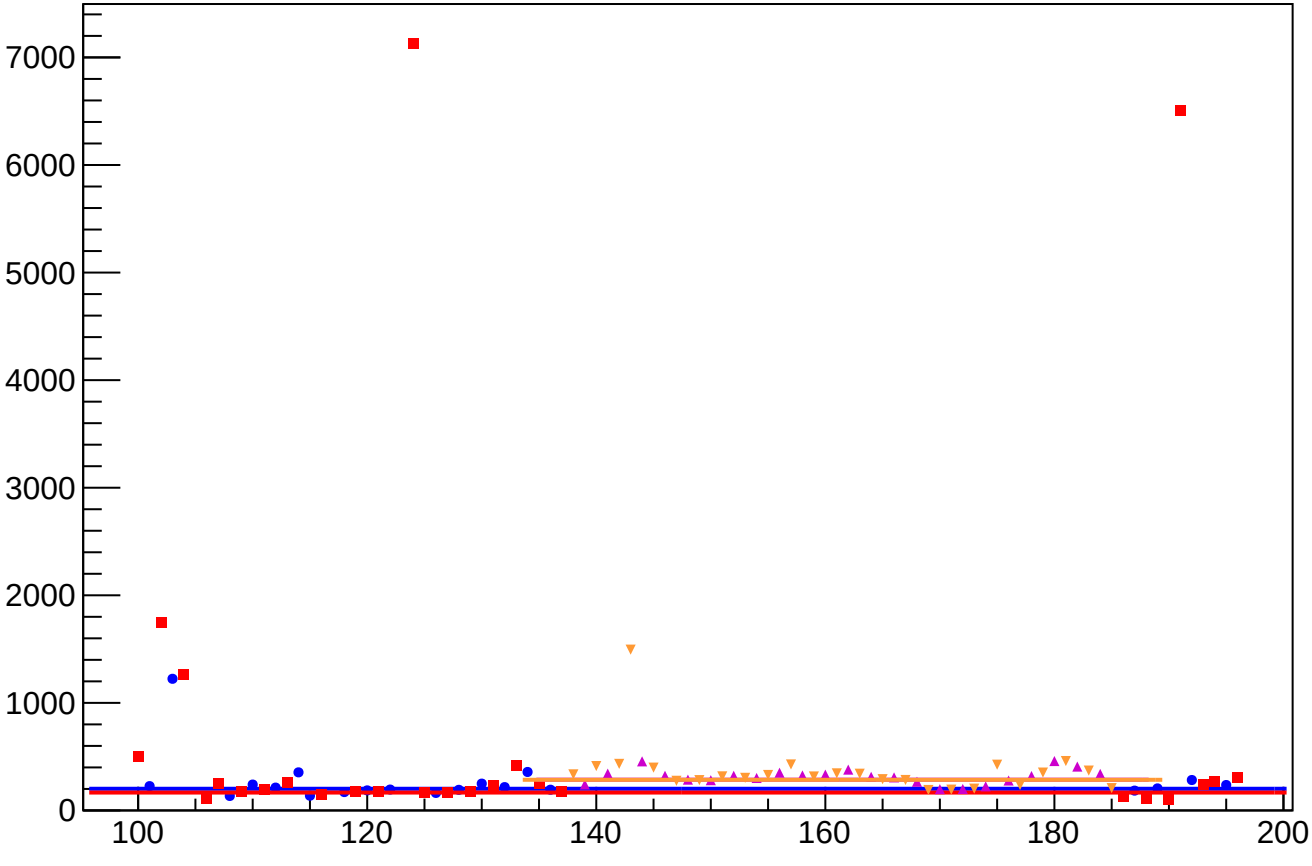
Right: 0.001+/-0.044 $\chi^2$/NDF: 42.9/45

In: -0.077+/-0.049 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.044 $\chi^2$/NDF:55.7/50

All: -0.016+/-0.033 $\chi^2$/NDF: 103.5/93

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 201.647+/-0.049 $\chi^2$/NDF: 1623076.7/19

Left Out: 285.039+/-0.049 $\chi^2$/NDF:3407037.3/24

Right Out: 166.351+/-0.040 $\chi^2$/NDF: 4400630.0/25

Left In: 285.871+/-0.050 $\chi^2$/NDF:1744743.9/22

Left: 285.451+/-0.035 $\chi^2$/NDF: 5151922.1/47

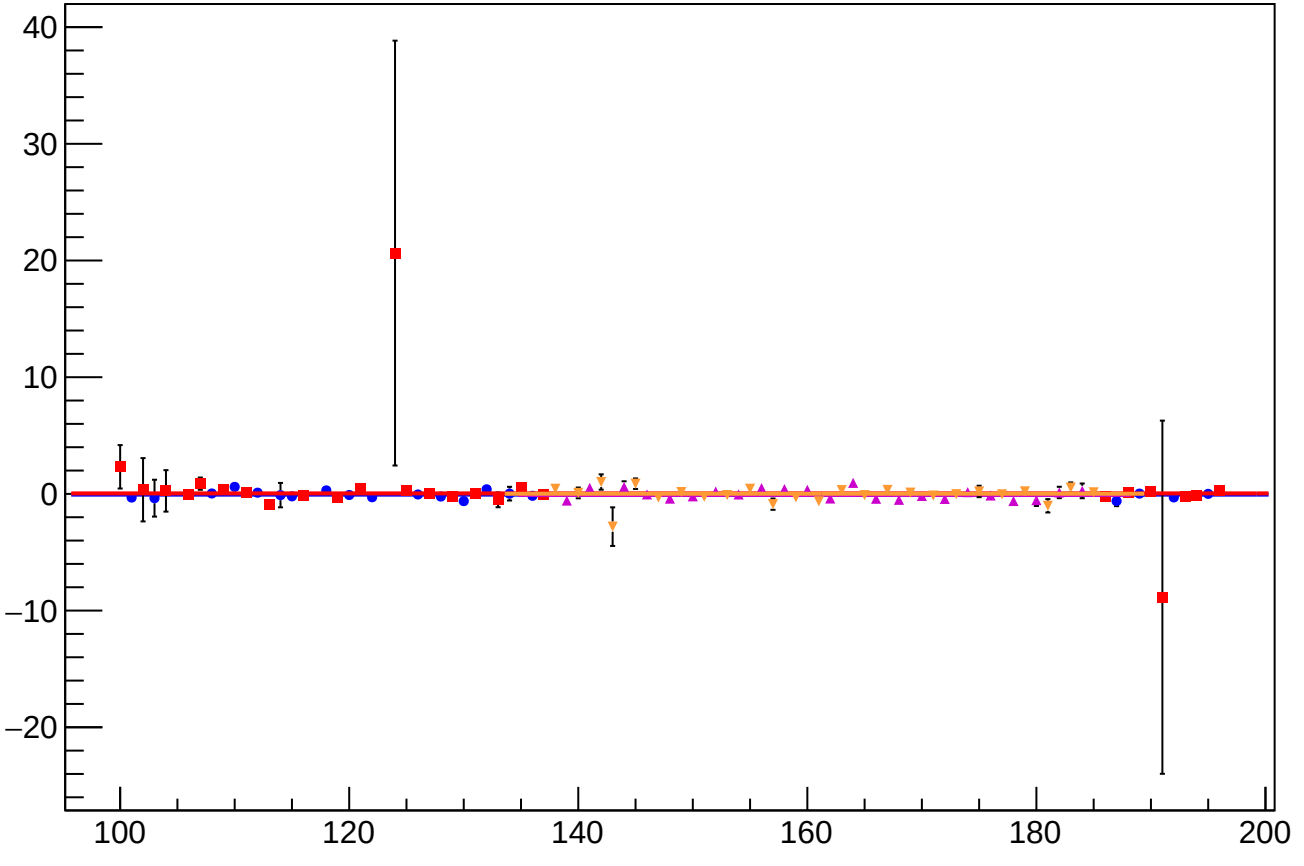
Right: 180.330+/-0.031 $\chi^2$/NDF: 6335313.3/45

In: 243.201+/-0.035 $\chi^2$/NDF:4817335.9/42

Out: 213.090+/-0.031 $\chi^2$/NDF:11311033.2/50

All: 226.329+/-0.023 $\chi^2$/NDF: 16543679.6/93

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.064+/-0.069 $\chi^2$/NDF: 14.2/19

Left Out: 0.014+/-0.070 $\chi^2$/NDF:28.3/24

Right Out: 0.043+/-0.056 $\chi^2$/NDF: 27.3/25

Left In: -0.091+/-0.070 $\chi^2$/NDF:30.9/22

Left: -0.038+/-0.050 $\chi^2$/NDF: 60.3/47

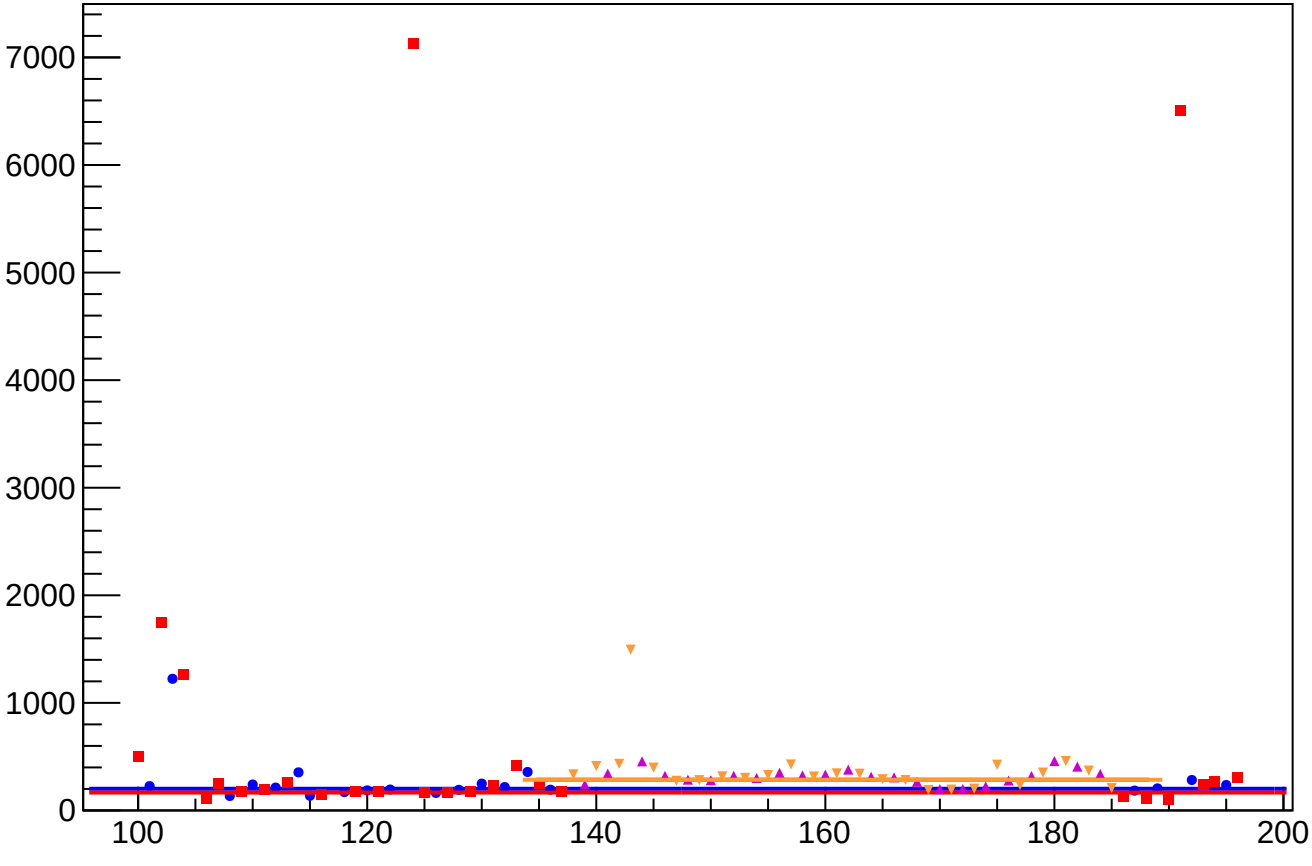
Right: 0.001+/-0.044 $\chi^2$/NDF: 42.9/45

In: -0.077+/-0.049 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.044 $\chi^2$/NDF:55.7/50

All: -0.016+/-0.033 $\chi^2$/NDF: 103.5/93

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 201.647+/-0.049 $\chi^2$/NDF: 1623076.7/19

Left Out: 285.039+/-0.049 $\chi^2$/NDF:3407037.3/24

Right Out: 166.351+/-0.040 $\chi^2$/NDF: 4400630.0/25

Left In: 285.871+/-0.050 $\chi^2$/NDF:1744743.9/22

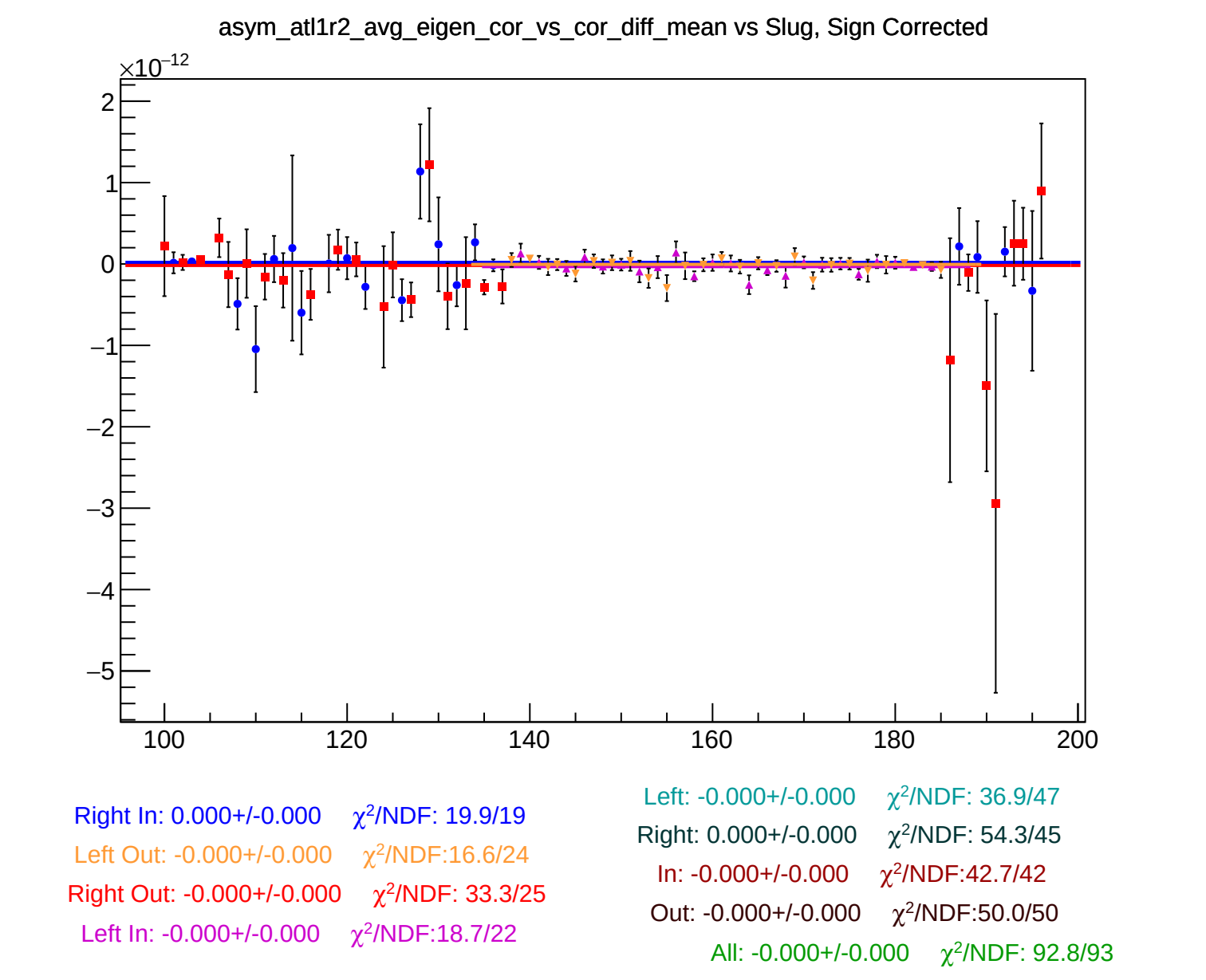
Left: 285.451+/-0.035 $\chi^2$/NDF: 5151922.1/47

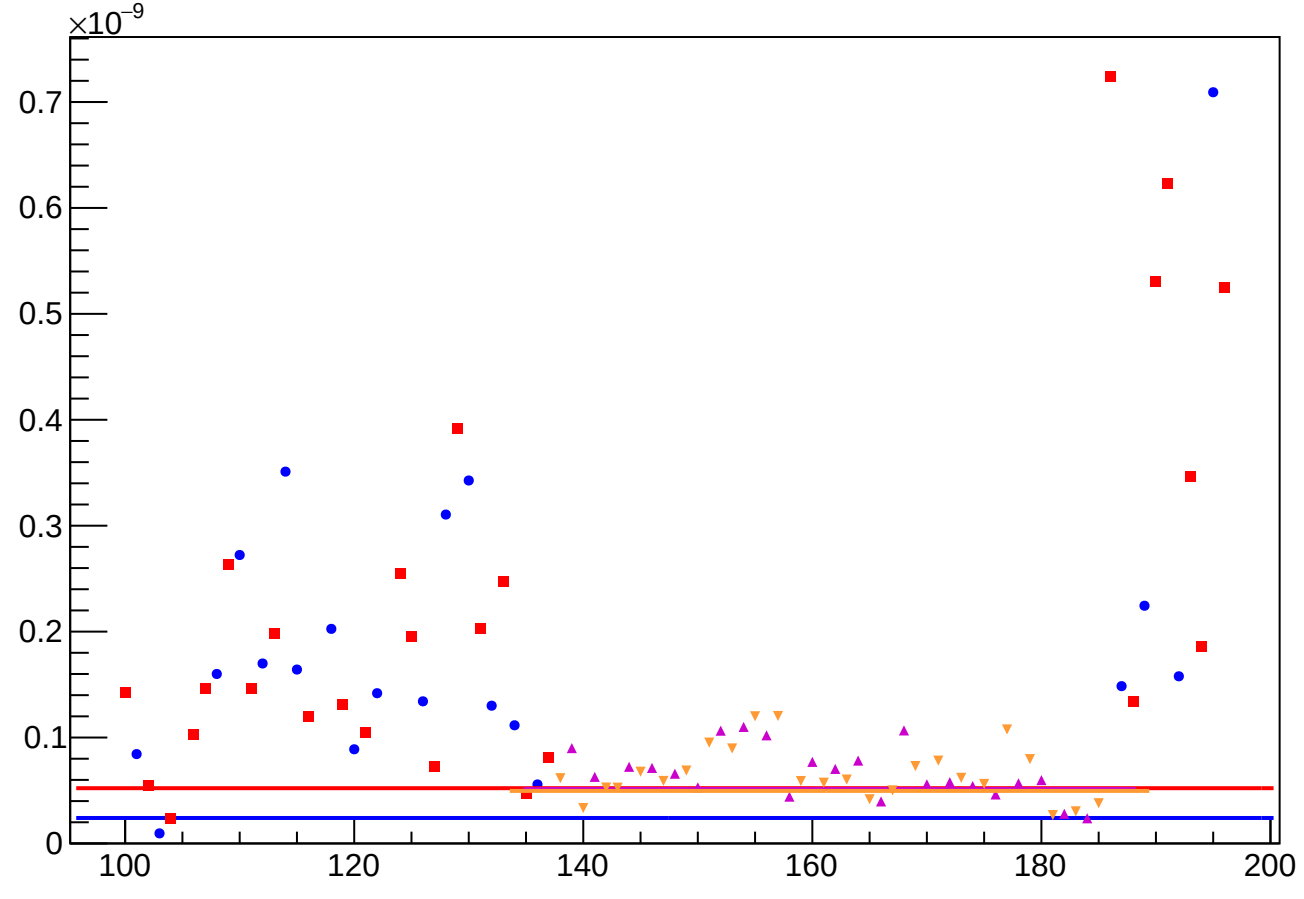
Right: 180.330+/-0.031 $\chi^2$/NDF: 6335313.3/45

In: 243.201+/-0.035 $\chi^2$/NDF:4817335.9/42

Out: 213.090+/-0.031 $\chi^2$/NDF:11311033.2/50

All: 226.329+/-0.023 $\chi^2$/NDF: 16543679.6/93


asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 19.9/19
Left Out: -0.000+/-0.000 χ²/NDF:16.6/24
Right Out: -0.000+/-0.000 χ²/NDF: 33.3/25
Left In: -0.000+/-0.000 χ²/NDF:18.7/22
Left: -0.000+/-0.000 χ²/NDF: 36.9/47
Right: 0.000+/-0.000 χ²/NDF: 54.3/45
In: -0.000+/-0.000 χ²/NDF:42.7/42
Out: -0.000+/-0.000 χ²/NDF:50.0/50
All: -0.000+/-0.000 χ²/NDF: 92.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8340025.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3882649.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6951461.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3659712.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 7555879.5/47

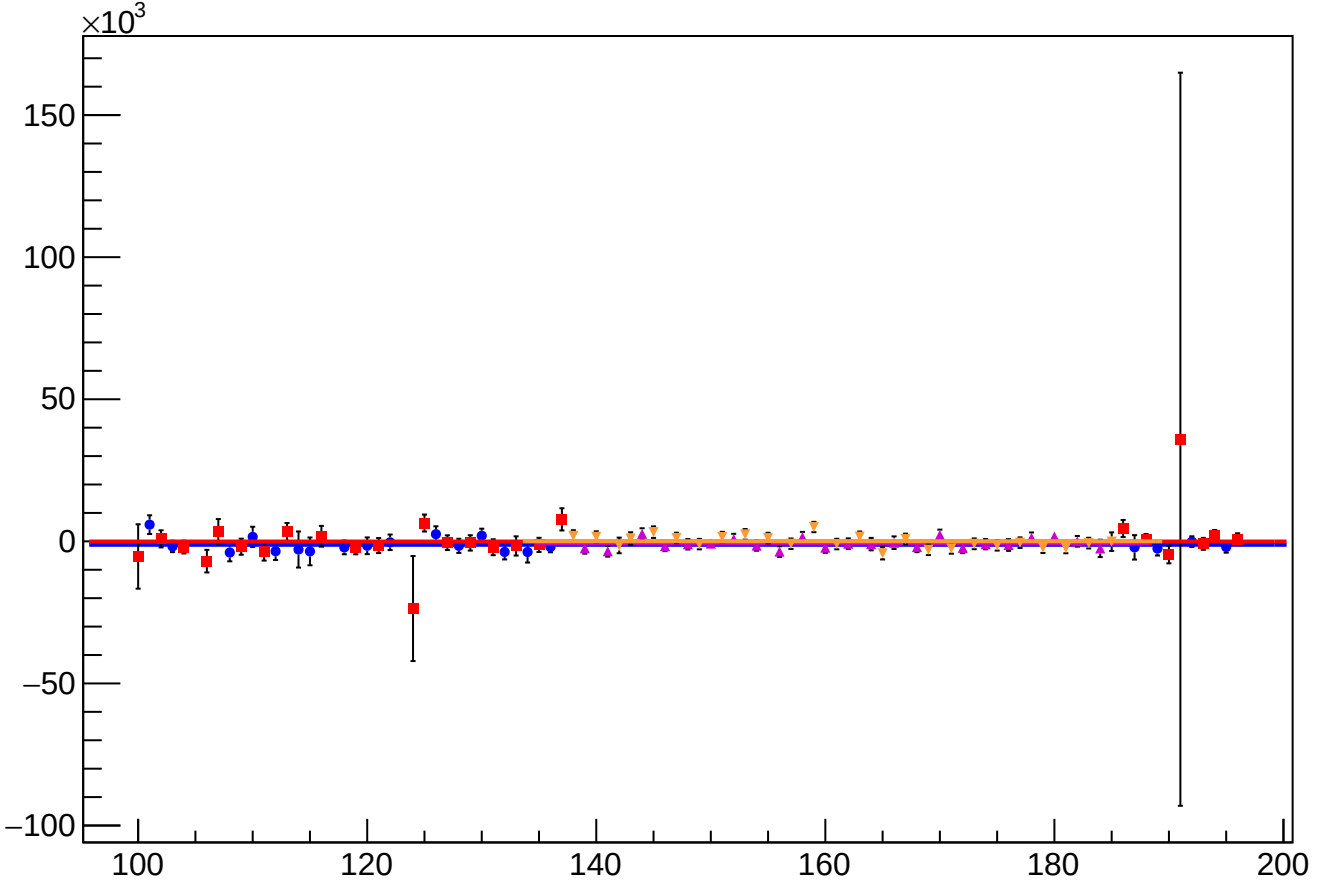
Right: 0.000+/-0.000 $\chi^2$/NDF: 16449250.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:14240572.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10845211.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 25548672.0/93

# reg_asym_atl1r2_dd_mean vs Slug, Sign Corrected




Right In: -1211.307+/-593.487 $\chi^2$/NDF: 13.1/19

Left Out: 23.114+/-387.732 $\chi^2$/NDF:29.5/24

Right Out: -62.718+/-557.276 $\chi^2$/NDF: 26.6/25

Left In: -719.504+/-396.449 $\chi^2$/NDF:19.1/22

Left: -339.941+/-277.199 $\chi^2$/NDF: 50.3/47

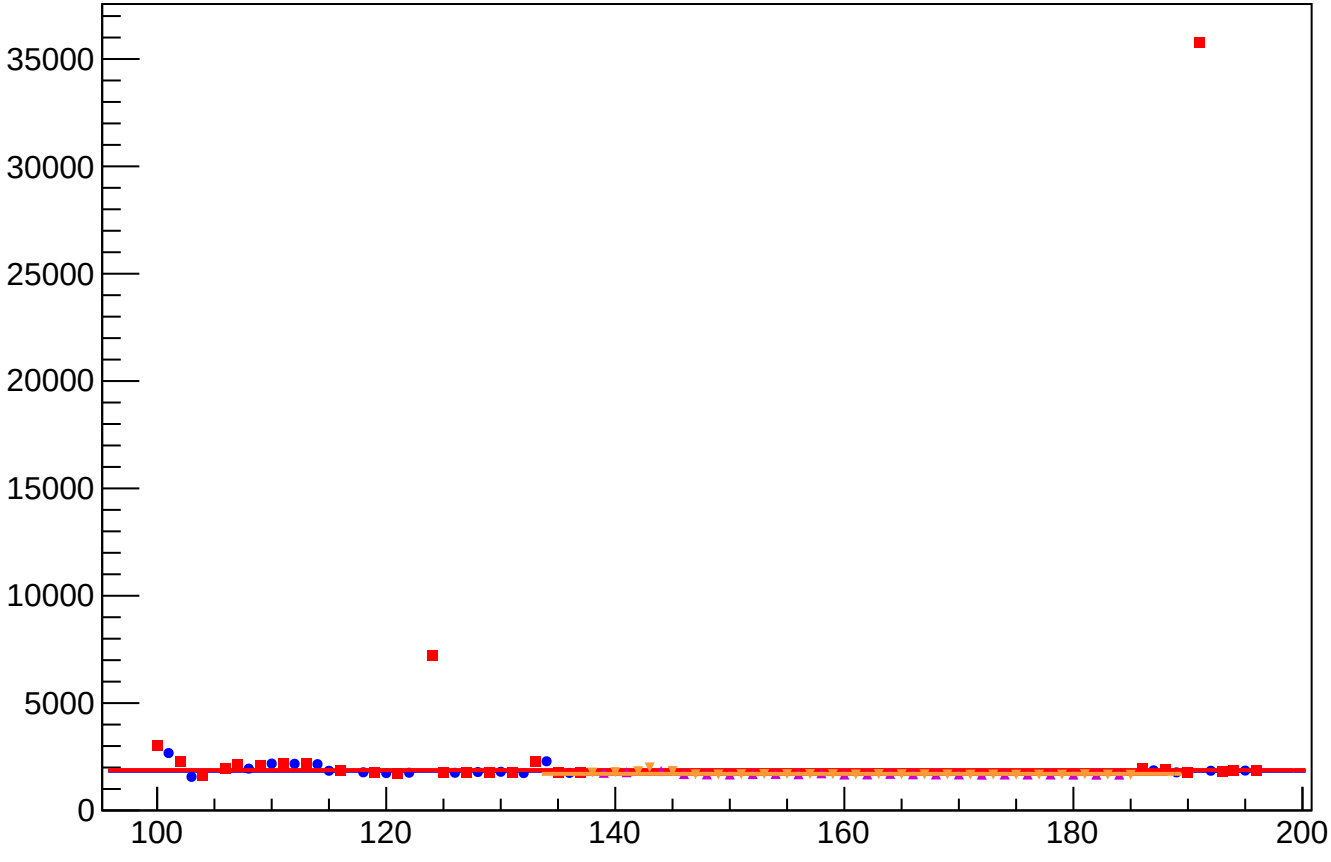
Right: -600.906+/-406.252 $\chi^2$/NDF: 41.7/45

In: -871.247+/-329.663 $\chi^2$/NDF:32.7/42

Out: -4.883+/-318.275 $\chi^2$/NDF:56.0/50

All: -422.843+/-228.974 $\chi^2$/NDF: 92.3/93

# reg_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1847.106+/-0.420 $\chi^2$/NDF: 261952.0/19

Left Out: 1705.634+/-0.274 $\chi^2$/NDF:59928.6/24

Right Out: 1880.005+/-0.393 $\chi^2$/NDF: 510833.2/25

Left In: 1697.514+/-0.280 $\chi^2$/NDF:21146.9/22

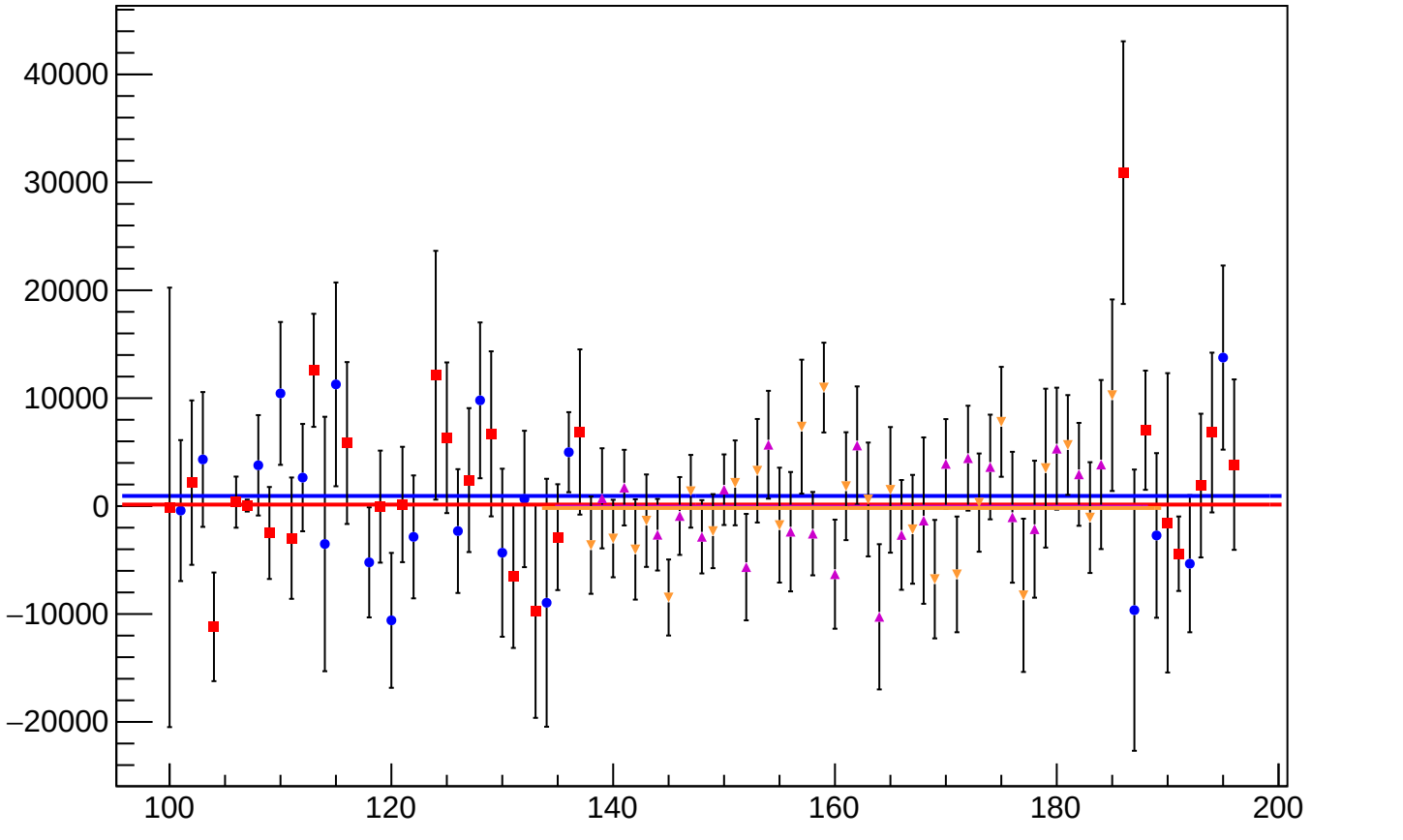
Left: 1701.665+/-0.196 $\chi^2$/NDF: 81504.4/47

Right: 1864.613+/-0.287 $\chi^2$/NDF: 776055.7/45

In: 1743.670+/-0.233 $\chi^2$/NDF:370958.1/42

Out: 1762.622+/-0.225 $\chi^2$/NDF:702958.6/50

All: 1753.484+/-0.162 $\chi^2$/NDF: 1077339.5/93




Right In: 939.400+/-1407.497 $\chi^2$/NDF: 17.9/19

Left Out: -175.777+/-935.141 $\chi^2$/NDF:27.9/24

Right Out: 140.019+/-494.108 $\chi^2$/NDF: 28.8/25

Left In: -56.448+/-956.389 $\chi^2$/NDF:14.3/22

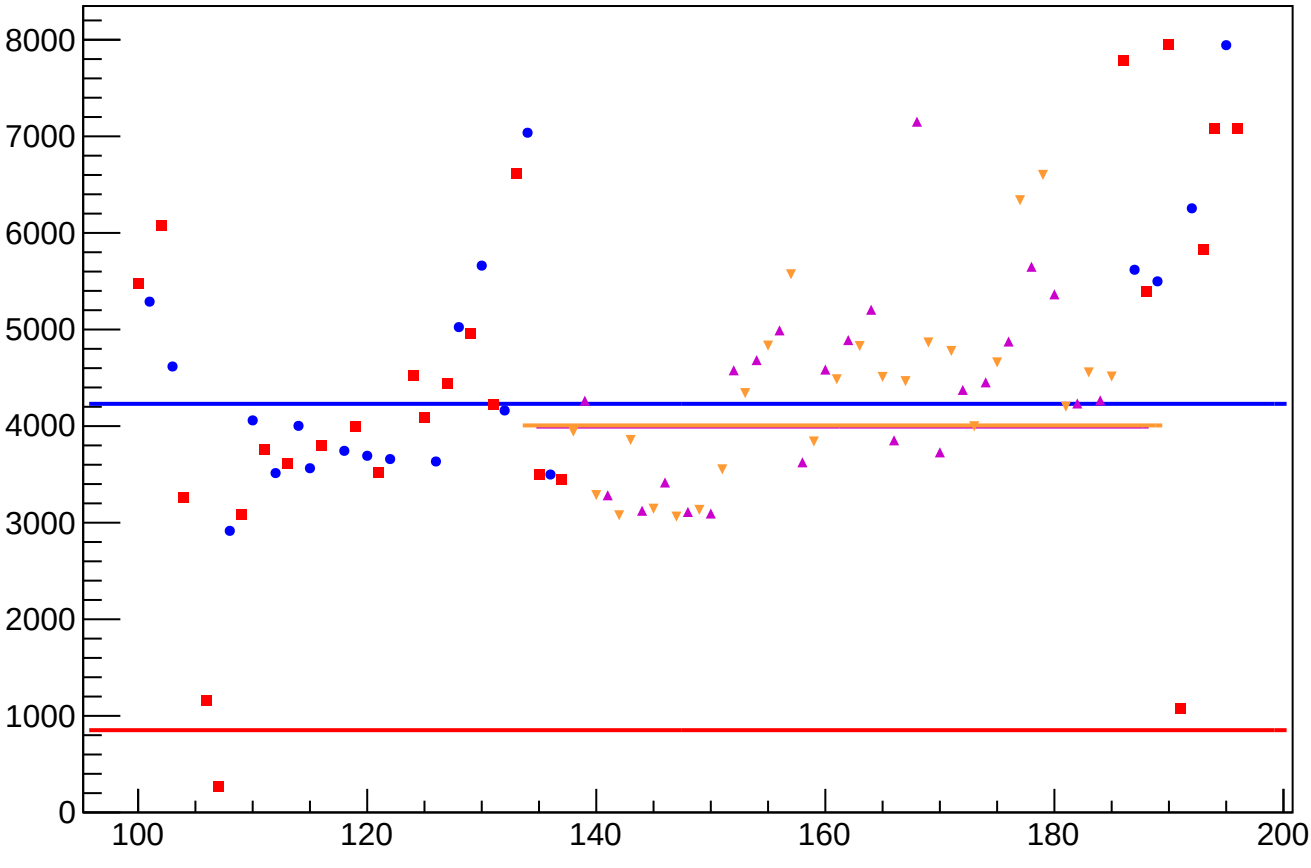
Left: -117.453+/-668.630 $\chi^2$/NDF: 42.2/47

Right: 227.725+/-466.214 $\chi^2$/NDF: 46.9/45

In: 258.112+/-791.048 $\chi^2$/NDF:32.5/42

Out: 71.096+/-436.873 $\chi^2$/NDF:56.8/50

All: 114.805+/-382.428 $\chi^2$/NDF: 89.3/93




Right In: 4230.650+/-0.995 $\chi^2$/NDF: 1297728.1/19

Left Out: 4006.998+/-0.661 $\chi^2$/NDF:1503677.6/24

Right Out: 851.890+/-0.349 $\chi^2$/NDF: 17095068.5/25

Left In: 3994.974+/-0.676 $\chi^2$/NDF:1538115.4/22

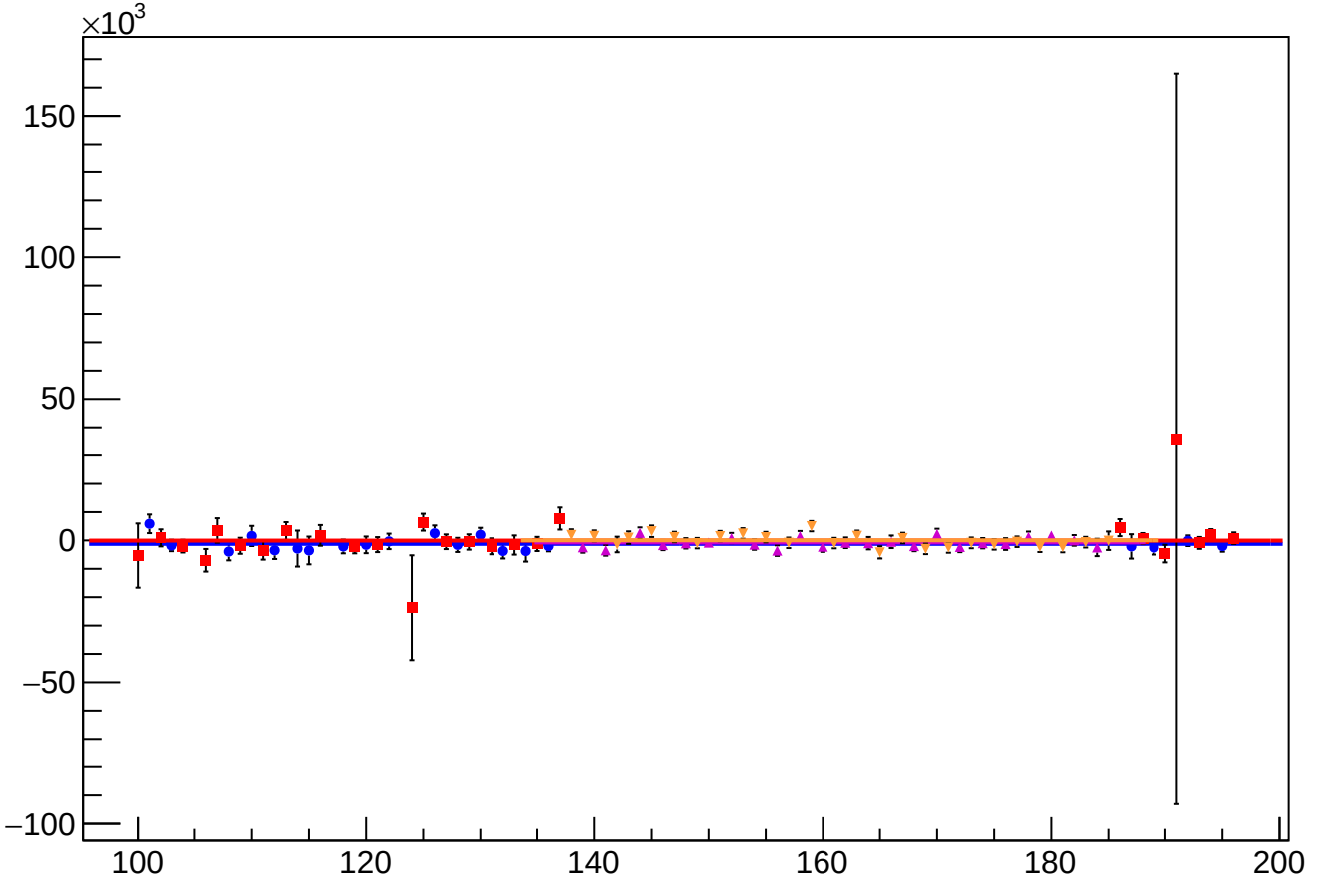
Left: 4001.121+/-0.473 $\chi^2$/NDF: 3041954.6/47

Right: 1222.600+/-0.330 $\chi^2$/NDF: 28653506.9/45

In: 4069.417+/-0.559 $\chi^2$/NDF:2874205.6/42

Out: 1540.496+/-0.309 $\chi^2$/NDF:36396751.1/50

All: 2131.551+/-0.270 $\chi^2$/NDF: 54934252.3/9




Right In: -1211.031+/-593.487 $\chi^2$/NDF: 13.1/19

Left Out: 23.186+/-387.732 $\chi^2$/NDF:29.5/24

Right Out: -62.934+/-557.277 $\chi^2$/NDF: 26.6/25

Left In: -719.380+/-396.449 $\chi^2$/NDF:19.1/22

Left: -339.844+/-277.199 $\chi^2$/NDF: 50.3/47

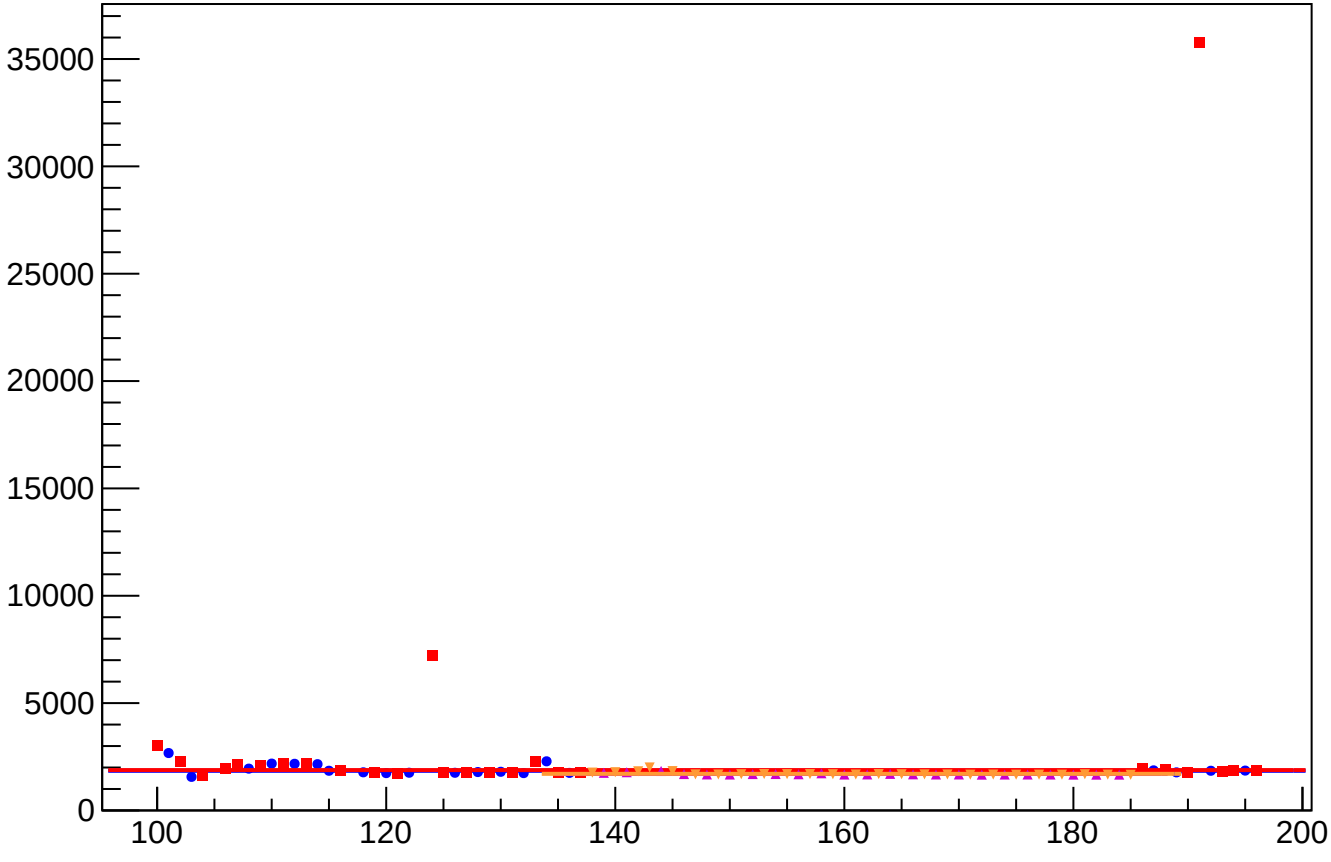
Right: -600.892+/-406.252 $\chi^2$/NDF: 41.7/45

In: -871.076+/-329.663 $\chi^2$/NDF:32.7/42

Out: -4.905+/-318.275 $\chi^2$/NDF:56.1/50

All: -422.772+/-228.974 $\chi^2$/NDF: 92.3/93

# cor_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1847.106+/-0.420 $\chi^2$/NDF: 261951.1/19

Left Out: 1705.635+/-0.274 $\chi^2$/NDF:59928.6/24

Right Out: 1880.288+/-0.394 $\chi^2$/NDF: 511088.2/25

Left In: 1697.514+/-0.280 $\chi^2$/NDF:21146.9/22

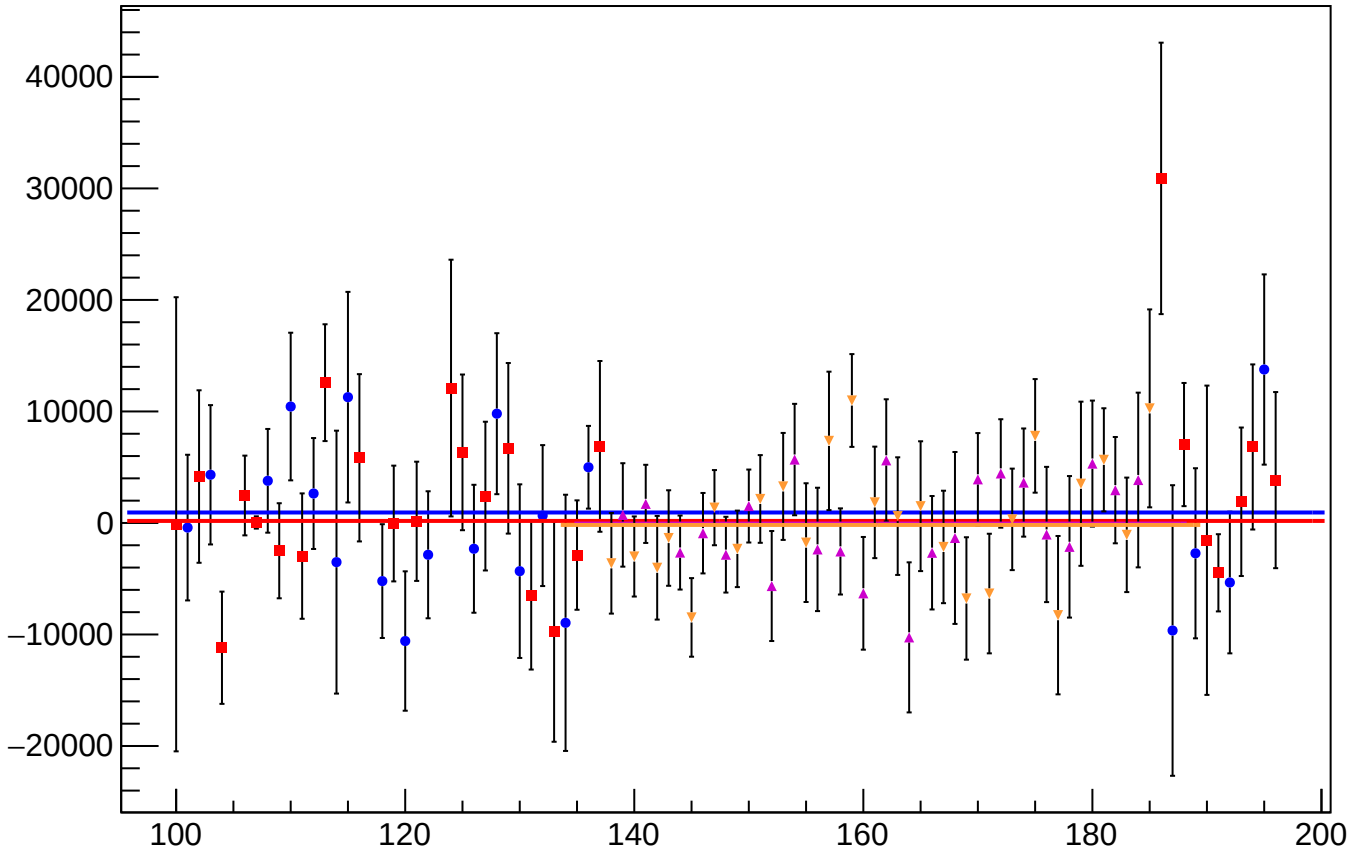
Left: 1701.665+/-0.196 $\chi^2$/NDF: 81504.4/47

Right: 1864.762+/-0.287 $\chi^2$/NDF: 776365.9/45

In: 1743.670+/-0.233 $\chi^2$/NDF:370957.6/42

Out: 1762.704+/-0.225 $\chi^2$/NDF:703618.3/50

All: 1753.525+/-0.162 $\chi^2$/NDF: 1078028.1/93




Right In: 939.379+/-1407.502 $\chi^2$/NDF: 17.9/19

Left Out: -175.755+/-935.140 $\chi^2$/NDF:27.9/24

Right Out: 182.345+/-500.287 $\chi^2$/NDF: 29.4/25

Left In: -56.377+/-956.388 $\chi^2$/NDF:14.3/22

Left: -117.407+/-668.630 $\chi^2$/NDF: 42.2/47

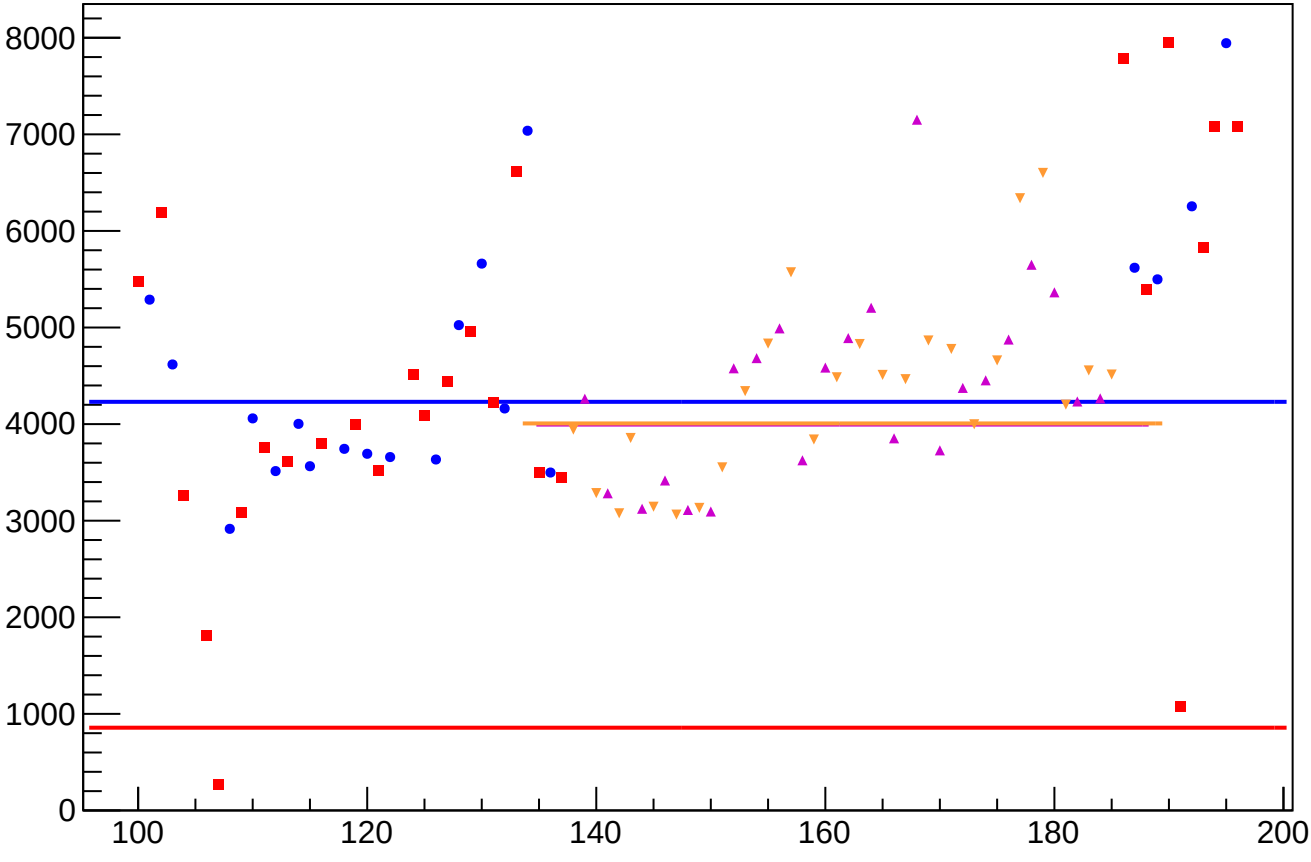
Right: 267.260+/-471.394 $\chi^2$/NDF: 47.5/45

In: 258.153+/-791.049 $\chi^2$/NDF:32.5/42

Out: 102.660+/-441.126 $\chi^2$/NDF:57.4/50

All: 139.544+/-385.271 $\chi^2$/NDF: 90.0/93

asym_atl1r2_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 4230.660+/-0.995 $\chi^2$/NDF: 1297748.8/19

Left Out: 4006.990+/-0.661 $\chi^2$/NDF:1503698.2/24

Right Out: 856.824+/-0.354 $\chi^2$/NDF: 17216593.8/25

Left In: 3994.972+/-0.676 $\chi^2$/NDF:1538098.4/22

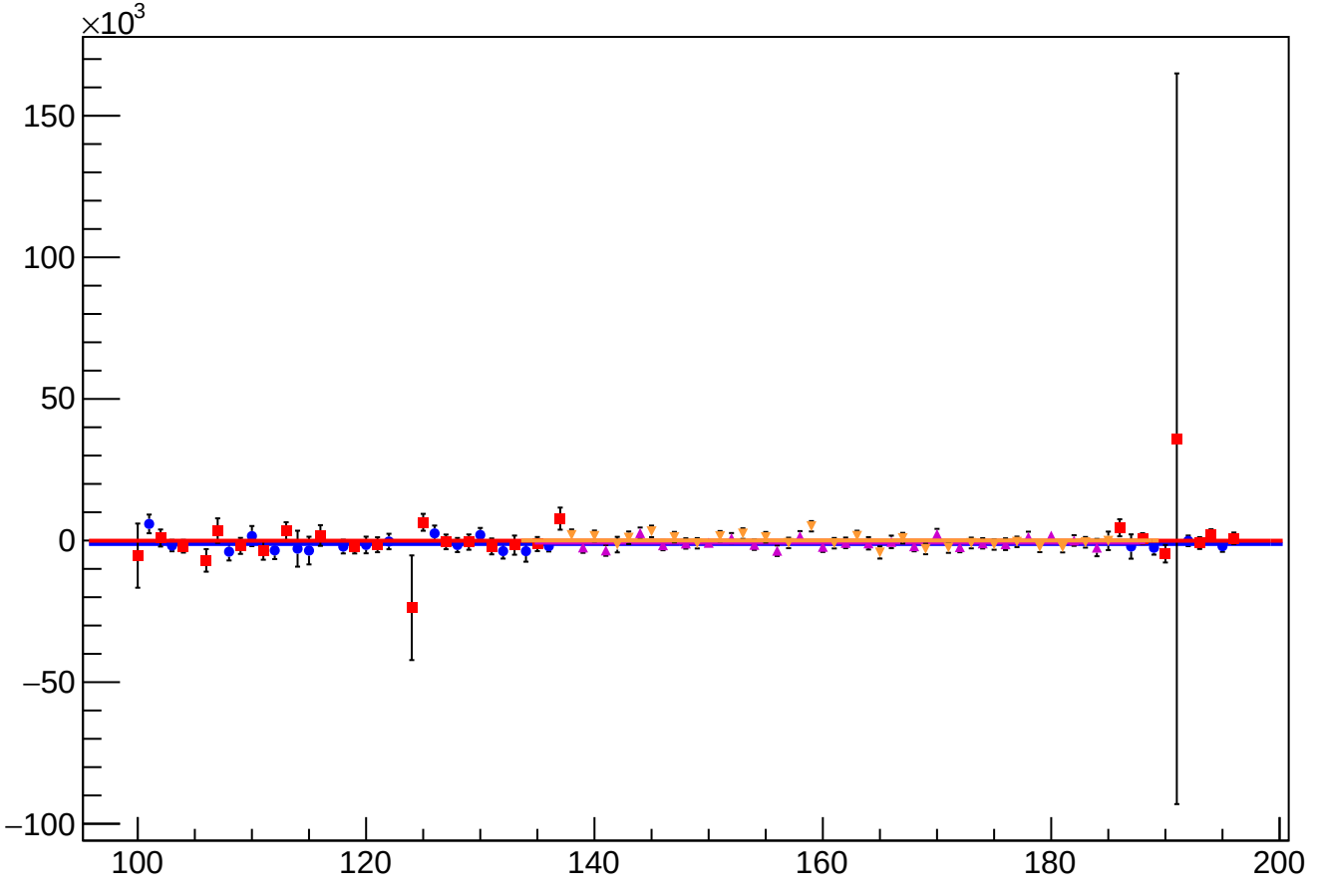
Left: 4001.116+/-0.473 $\chi^2$/NDF: 3041958.1/47

Right: 1235.262+/-0.333 $\chi^2$/NDF: 28716936.4/45

In: 4069.419+/-0.559 $\chi^2$/NDF:2874212.9/42

Out: 1557.805+/-0.312 $\chi^2$/NDF:36365710.5/50

All: 2153.576+/-0.272 $\chi^2$/NDF: 54619203.3/9




Right In: -1211.031+/-593.487 $\chi^2$/NDF: 13.1/19

Left Out: 23.186+/-387.732 $\chi^2$/NDF:29.5/24

Right Out: -62.934+/-557.277 $\chi^2$/NDF: 26.6/25

Left In: -719.380+/-396.449 $\chi^2$/NDF:19.1/22

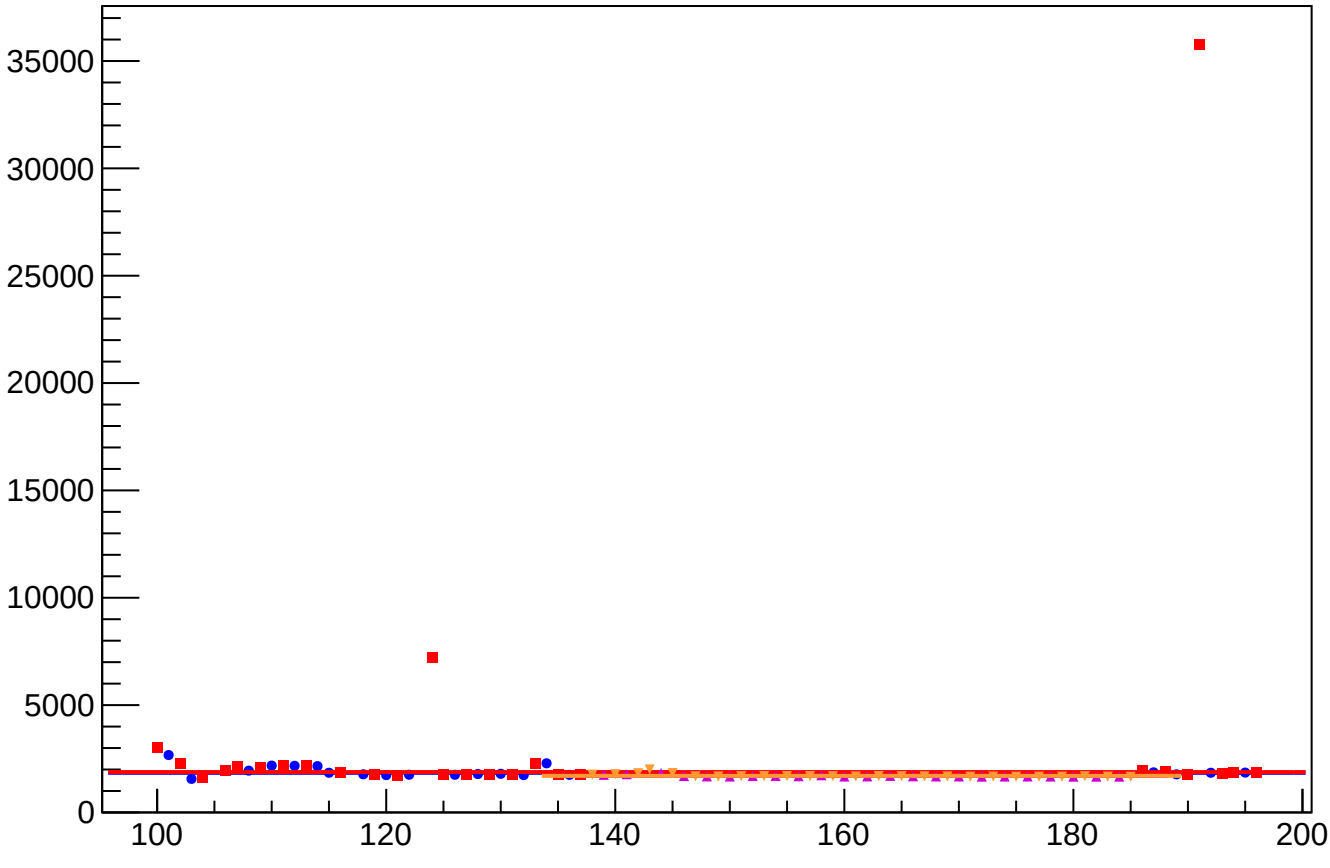
Left: -339.844+/-277.199 $\chi^2$/NDF: 50.3/47

Right: -600.892+/-406.252 $\chi^2$/NDF: 41.7/45

In: -871.076+/-329.663 $\chi^2$/NDF:32.7/42

Out: -4.905+/-318.275 $\chi^2$/NDF:56.1/50

All: -422.772+/-228.974 $\chi^2$/NDF: 92.3/93




Right In: 1847.106+/-0.420 $\chi^2$/NDF: 261951.1/19

Left Out: 1705.635+/-0.274 $\chi^2$/NDF:59928.6/24

Right Out: 1880.288+/-0.394 $\chi^2$/NDF: 511088.2/25

Left In: 1697.514+/-0.280 $\chi^2$/NDF:21146.9/22

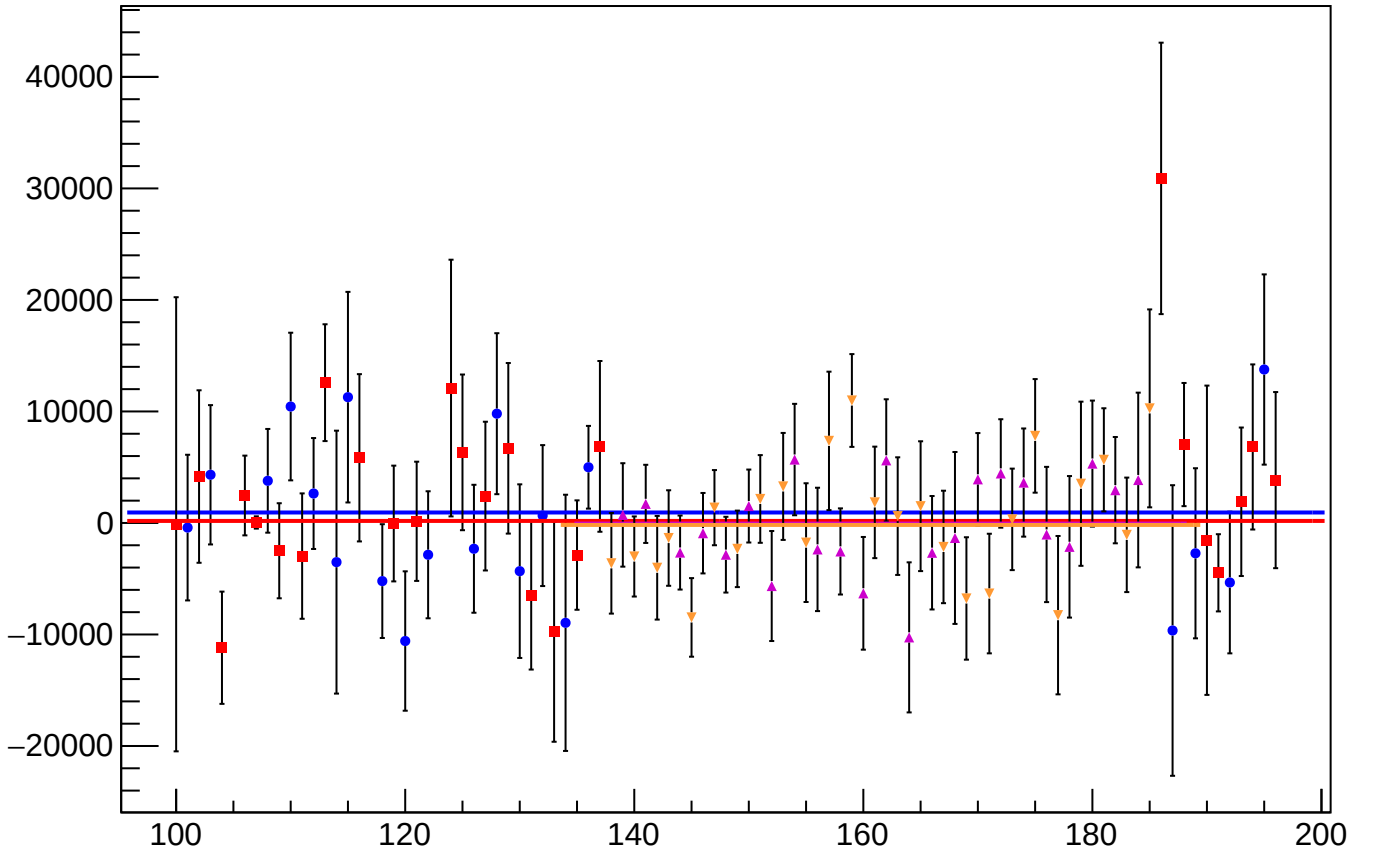
Left: 1701.665+/-0.196 $\chi^2$/NDF: 81504.4/47

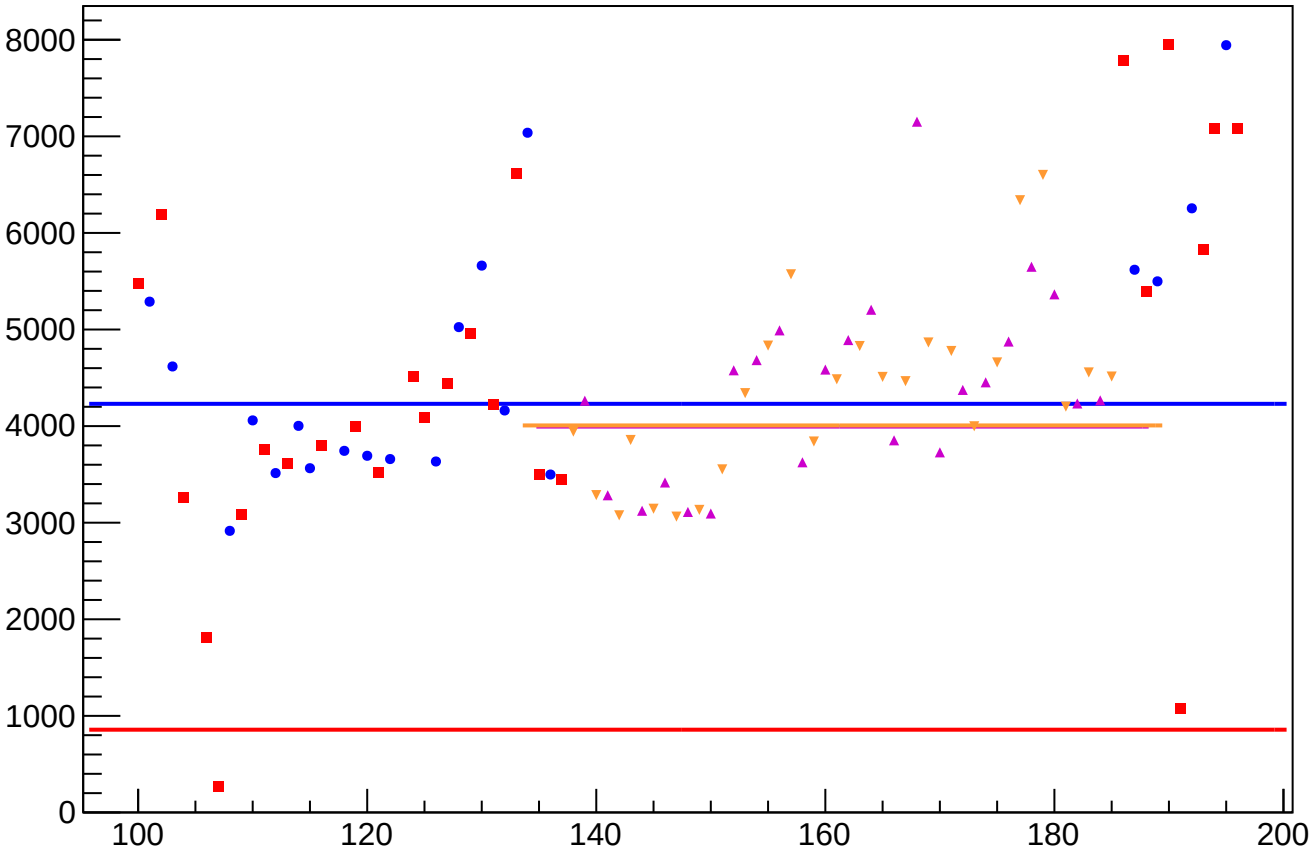
Right: 1864.762+/-0.287 $\chi^2$/NDF: 776365.9/45

In: 1743.670+/-0.233 $\chi^2$/NDF:370957.6/42

Out: 1762.704+/-0.225 $\chi^2$/NDF:703618.3/50

All: 1753.525+/-0.162 $\chi^2$/NDF: 1078028.1/93


asym_atl1r2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 939.379+/-1407.502 χ²/NDF: 17.9/19
Left Out: -175.755+/-935.140 χ²/NDF:27.9/24
Right Out: 182.345+/-500.287 χ²/NDF: 29.4/25
Left In: -56.377+/-956.388 χ²/NDF:14.3/22
Left: -117.407+/-668.630 χ²/NDF: 42.2/47
Right: 267.260+/-471.394 χ²/NDF: 47.5/45
In: 258.153+/-791.049 χ²/NDF:32.5/42
Out: 102.660+/-441.126 χ²/NDF:57.4/50
All: 139.544+/-385.271 χ²/NDF: 90.0/93




Right In: 4230.660+/-0.995 $\chi^2$/NDF: 1297748.8/19

Left Out: 4006.990+/-0.661 $\chi^2$/NDF:1503698.2/24

Right Out: 856.824+/-0.354 $\chi^2$/NDF: 17216593.8/25

Left In: 3994.972+/-0.676 $\chi^2$/NDF:1538098.4/22

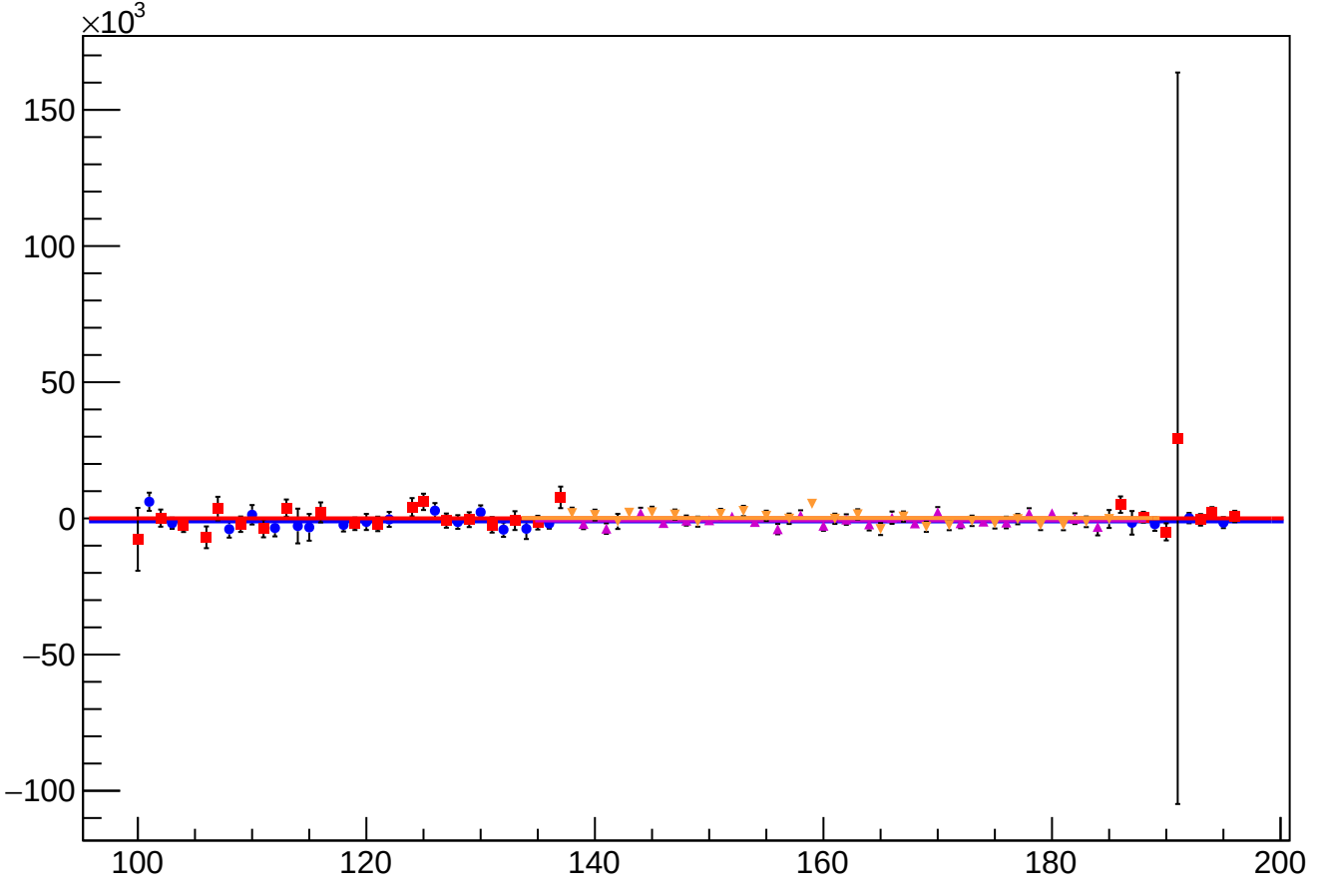
Left: 4001.116+/-0.473 $\chi^2$/NDF: 3041958.1/47

Right: 1235.262+/-0.333 $\chi^2$/NDF: 28716936.4/45

In: 4069.419+/-0.559 $\chi^2$/NDF:2874212.9/42

Out: 1557.805+/-0.312 $\chi^2$/NDF:36365710.5/50

All: 2153.576+/-0.272 $\chi^2$/NDF: 54619203.3/9




Right In: -1080.851+/-599.000 $\chi^2$/NDF: 13.8/19

Left Out: 119.959+/-389.458 $\chi^2$/NDF:29.7/24

Right Out: 19.640+/-556.311 $\chi^2$/NDF: 28.0/25

Left In: -741.191+/-404.161 $\chi^2$/NDF:19.0/22

Left: -294.668+/-280.442 $\chi^2$/NDF: 51.1/47

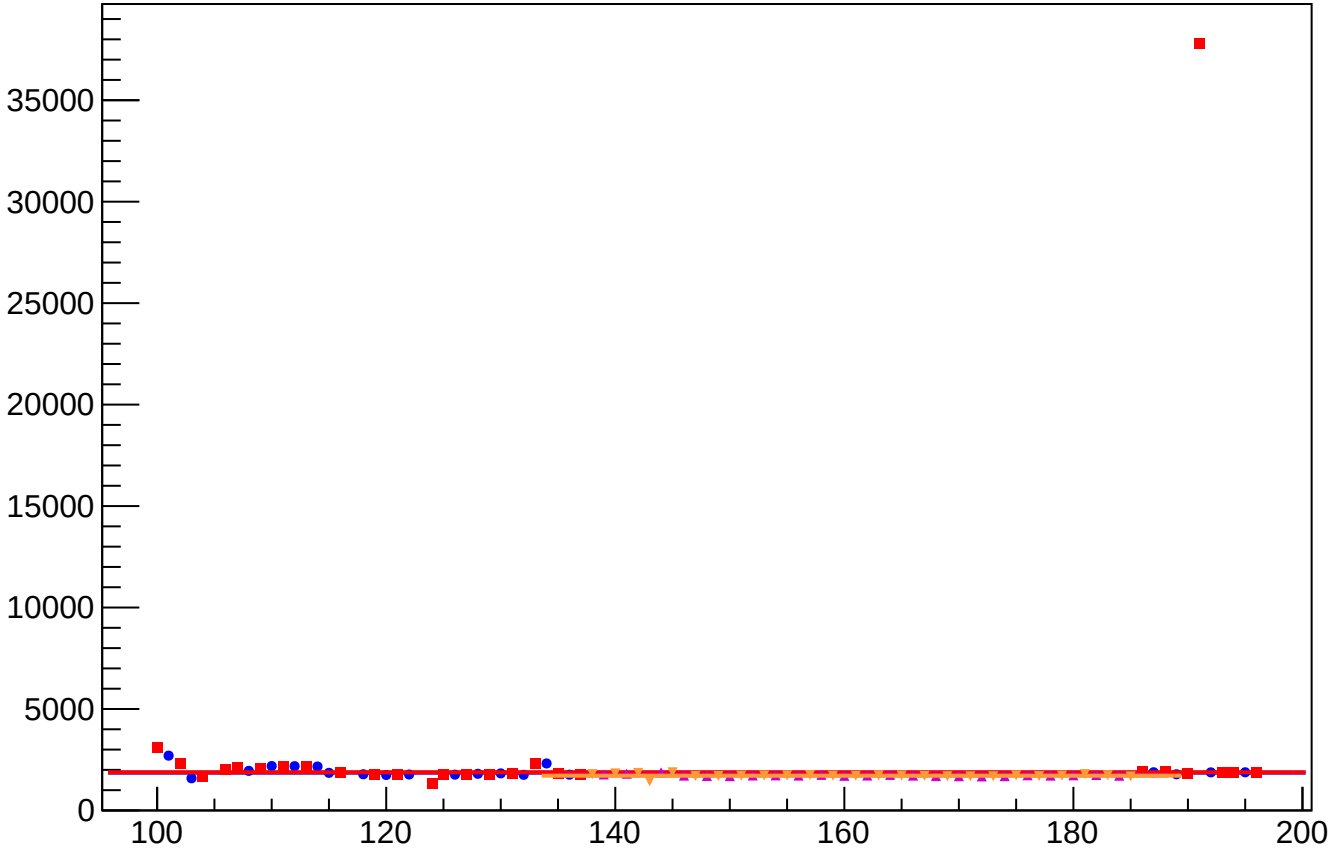
Right: -489.998+/-407.628 $\chi^2$/NDF: 43.6/45

In: -847.448+/-335.031 $\chi^2$/NDF:33.0/42

Out: 86.963+/-319.046 $\chi^2$/NDF:57.7/50

All: -357.420+/-231.044 $\chi^2$/NDF: 94.8/93

# dit_asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 1864.125+/-0.424 $\chi^2$/NDF: 258739.7/19

Left Out: 1712.310+/-0.275 $\chi^2$/NDF:94399.0/24

Right Out: 1879.897+/-0.393 $\chi^2$/NDF: 407982.9/25

Left In: 1730.342+/-0.286 $\chi^2$/NDF:23075.7/22

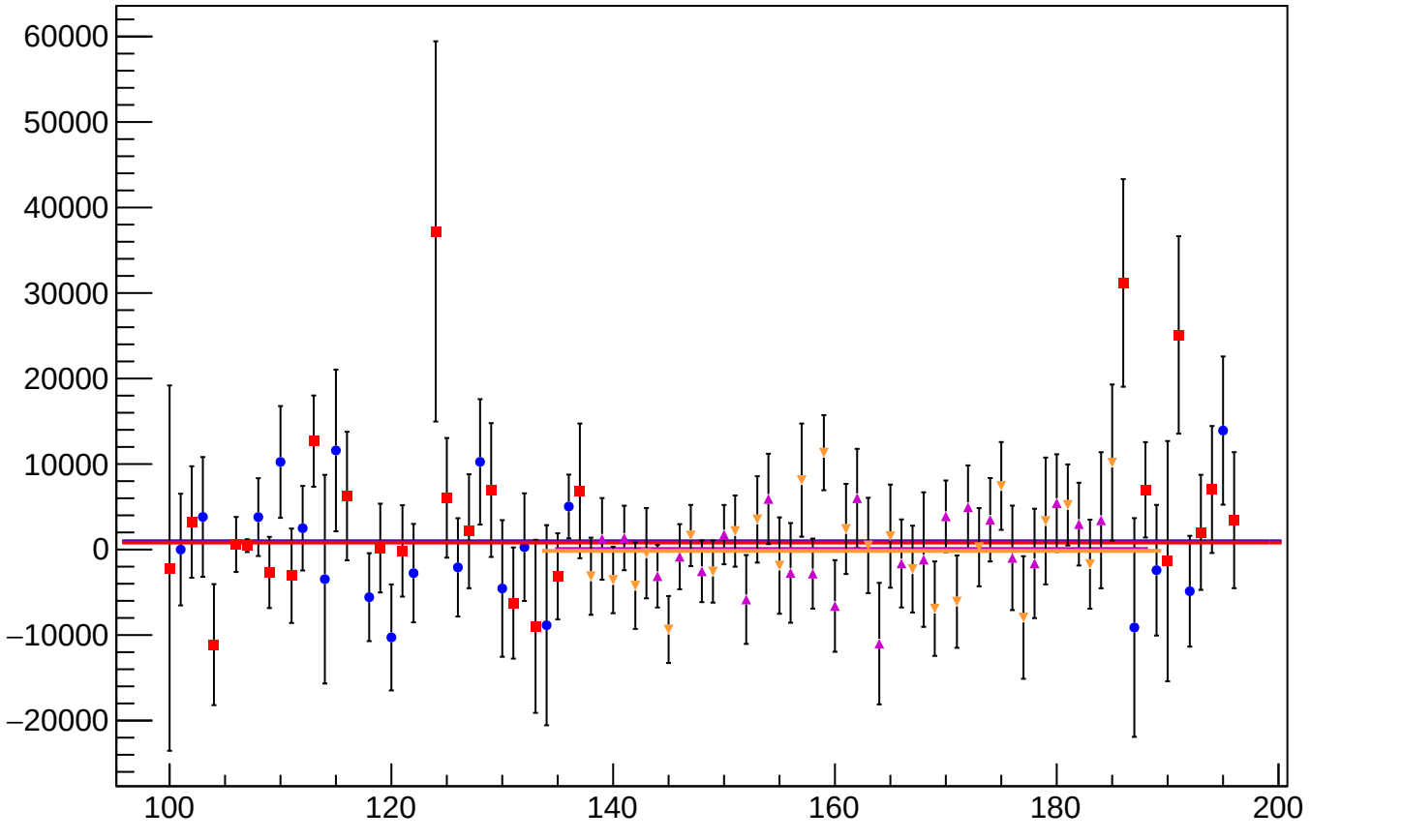
Left: 1720.992+/-0.198 $\chi^2$/NDF: 119539.0/47

Right: 1872.597+/-0.288 $\chi^2$/NDF: 667467.4/45

In: 1772.194+/-0.237 $\chi^2$/NDF:350371.1/42

Out: 1767.469+/-0.226 $\chi^2$/NDF:624272.0/50

All: 1769.716+/-0.163 $\chi^2$/NDF: 974851.8/93




Right In: 964.171+/-1417.515 $\chi^2$/NDF: 17.5/19

Left Out: -150.169+/-984.984 $\chi^2$/NDF:26.9/24

Right Out: 820.526+/-643.676 $\chi^2$/NDF: 29.9/25

Left In: 65.169+/-1000.106 $\chi^2$/NDF:14.0/22

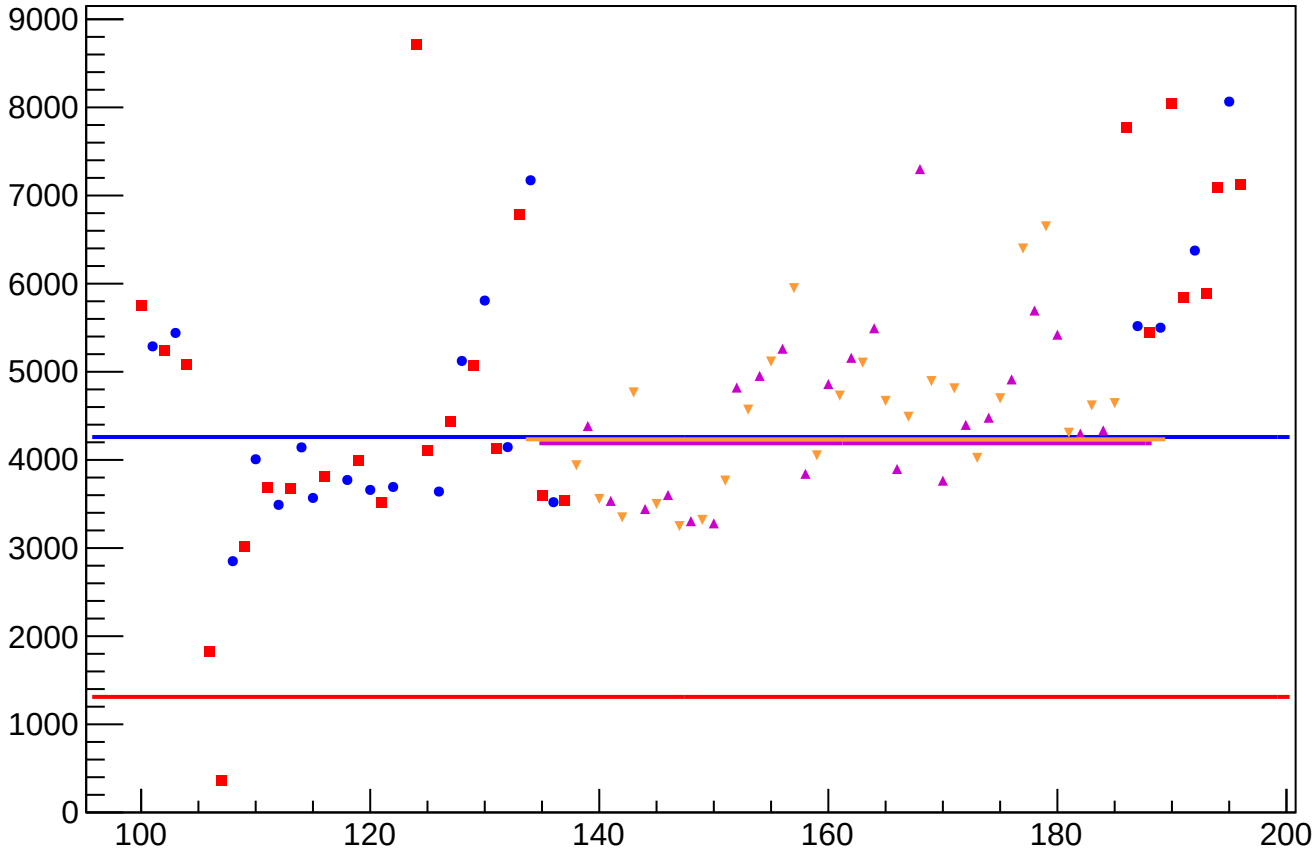
Left: -44.140+/-701.774 $\chi^2$/NDF: 40.9/47

Right: 845.082+/-586.082 $\chi^2$/NDF: 47.5/45

In: 363.948+/-817.188 $\chi^2$/NDF:31.8/42

Out: 530.043+/-538.825 $\chi^2$/NDF:57.5/50

All: 479.713+/-449.840 $\chi^2$/NDF: 89.3/93




Right In: 4259.721+/-1.002 $\chi^2$/NDF: 1416783.1/19

Left Out: 4233.905+/-0.696 $\chi^2$/NDF:1284783.2/24

Right Out: 1311.213+/-0.455 $\chi^2$/NDF: 15449753.5/25

Left In: 4188.874+/-0.707 $\chi^2$/NDF:1344602.0/22

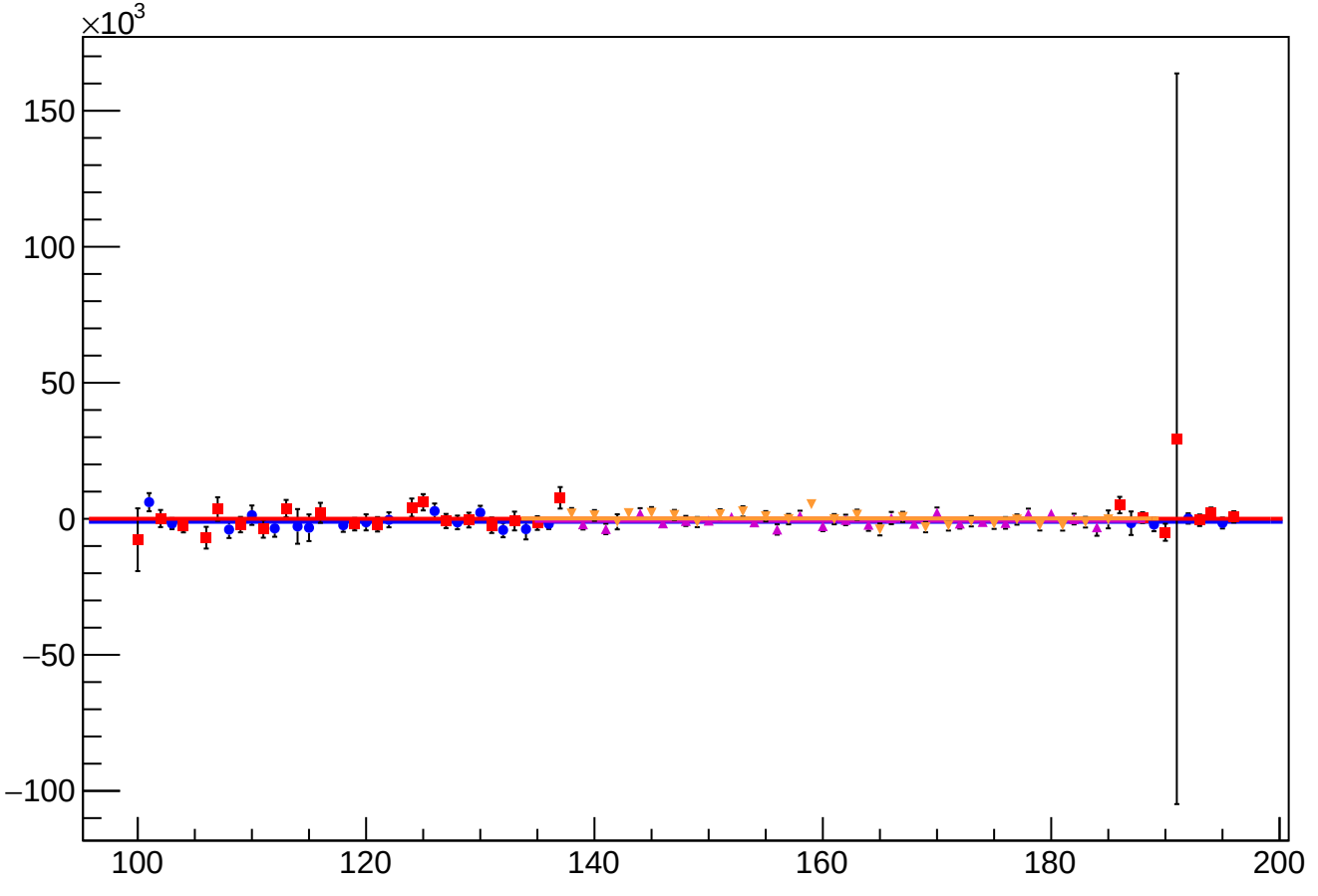
Left: 4211.733+/-0.496 $\chi^2$/NDF: 2631443.5/47

Right: 1815.251+/-0.414 $\chi^2$/NDF: 24040545.5/45

In: 4212.420+/-0.578 $\chi^2$/NDF:2764720.7/42

Out: 2185.835+/-0.381 $\chi^2$/NDF:29074089.7/50

All: 2799.931+/-0.318 $\chi^2$/NDF: 40411855.2/9




Right In: -1080.853+/-599.000 $\chi^2$/NDF: 13.8/19

Left Out: 119.962+/-389.458 $\chi^2$/NDF:29.7/24

Right Out: 19.637+/-556.311 $\chi^2$/NDF: 28.0/25

Left In: -741.189+/-404.161 $\chi^2$/NDF:19.0/22

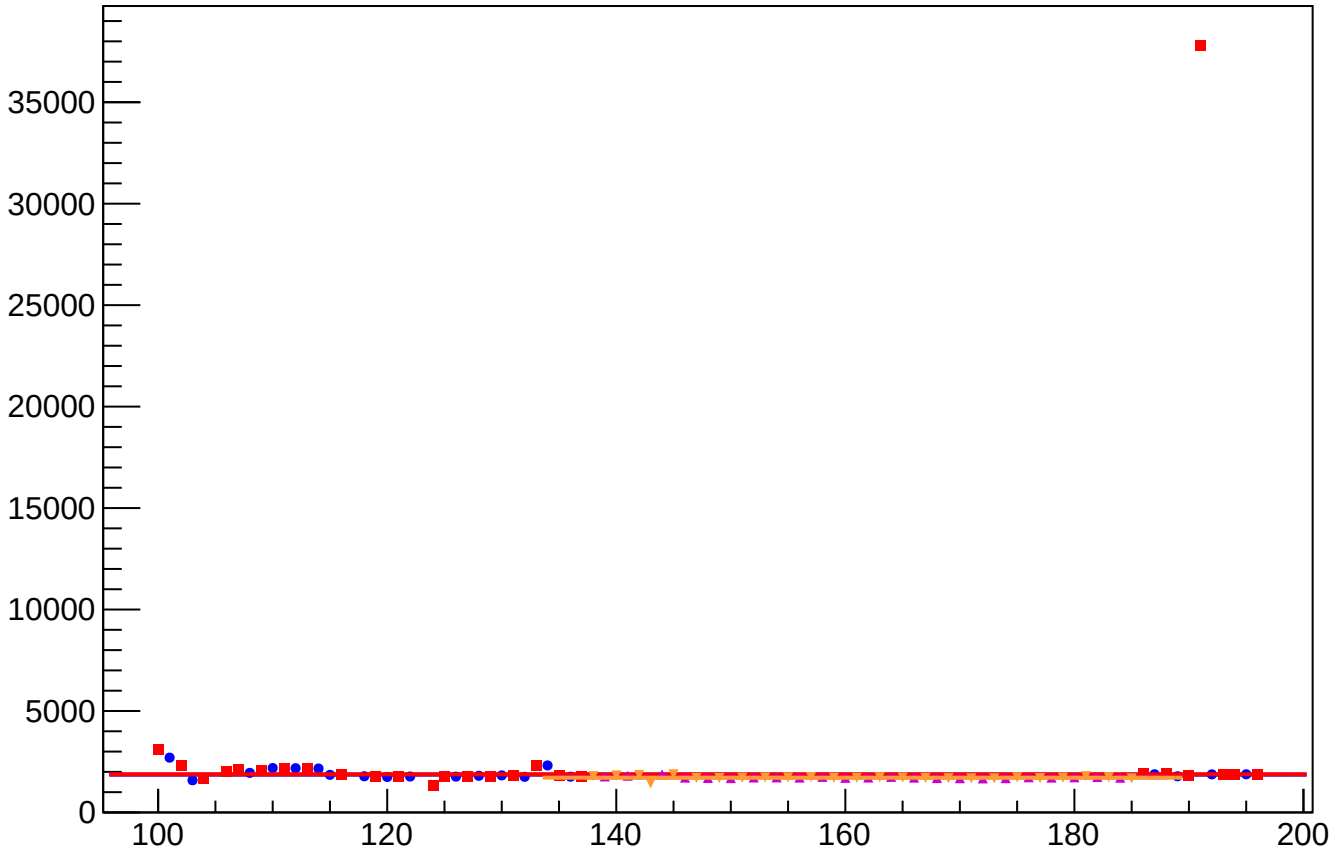
Left: -294.666+/-280.442 $\chi^2$/NDF: 51.1/47

Right: -490.000+/-407.628 $\chi^2$/NDF: 43.6/45

In: -847.448+/-335.031 $\chi^2$/NDF:33.0/42

Out: 86.964+/-319.046 $\chi^2$/NDF:57.7/50

All: -357.419+/-231.044 $\chi^2$/NDF: 94.8/93




Right In: 1864.125+/-0.424 $\chi^2$/NDF: 258739.6/19

Left Out: 1712.310+/-0.275 $\chi^2$/NDF:94398.1/24

Right Out: 1879.897+/-0.393 $\chi^2$/NDF: 407983.3/25

Left In: 1730.342+/-0.286 $\chi^2$/NDF:23075.7/22

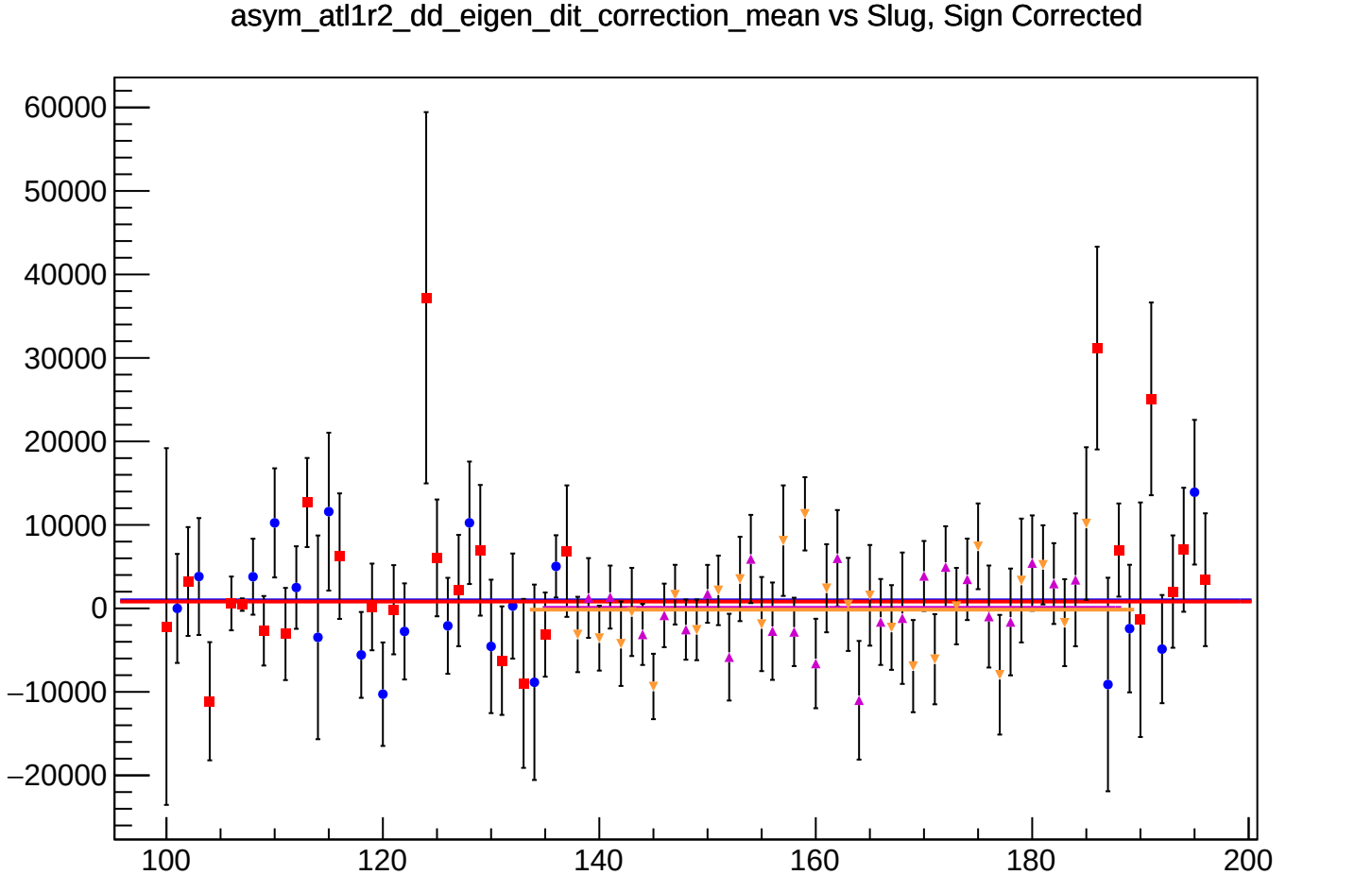
Left: 1720.992+/-0.198 $\chi^2$/NDF: 119538.1/47

Right: 1872.597+/-0.288 $\chi^2$/NDF: 667467.7/45

In: 1772.194+/-0.237 $\chi^2$/NDF:350370.3/42

Out: 1767.469+/-0.226 $\chi^2$/NDF:624270.5/50

All: 1769.716+/-0.163 $\chi^2$/NDF: 974849.5/93




Right In: 964.153+/-1417.513 $\chi^2$/NDF: 17.5/19

Left Out: -150.169+/-984.986 $\chi^2$/NDF:26.9/24

Right Out: 820.543+/-643.686 $\chi^2$/NDF: 29.9/25

Left In: 65.171+/-1000.108 $\chi^2$/NDF:14.0/22

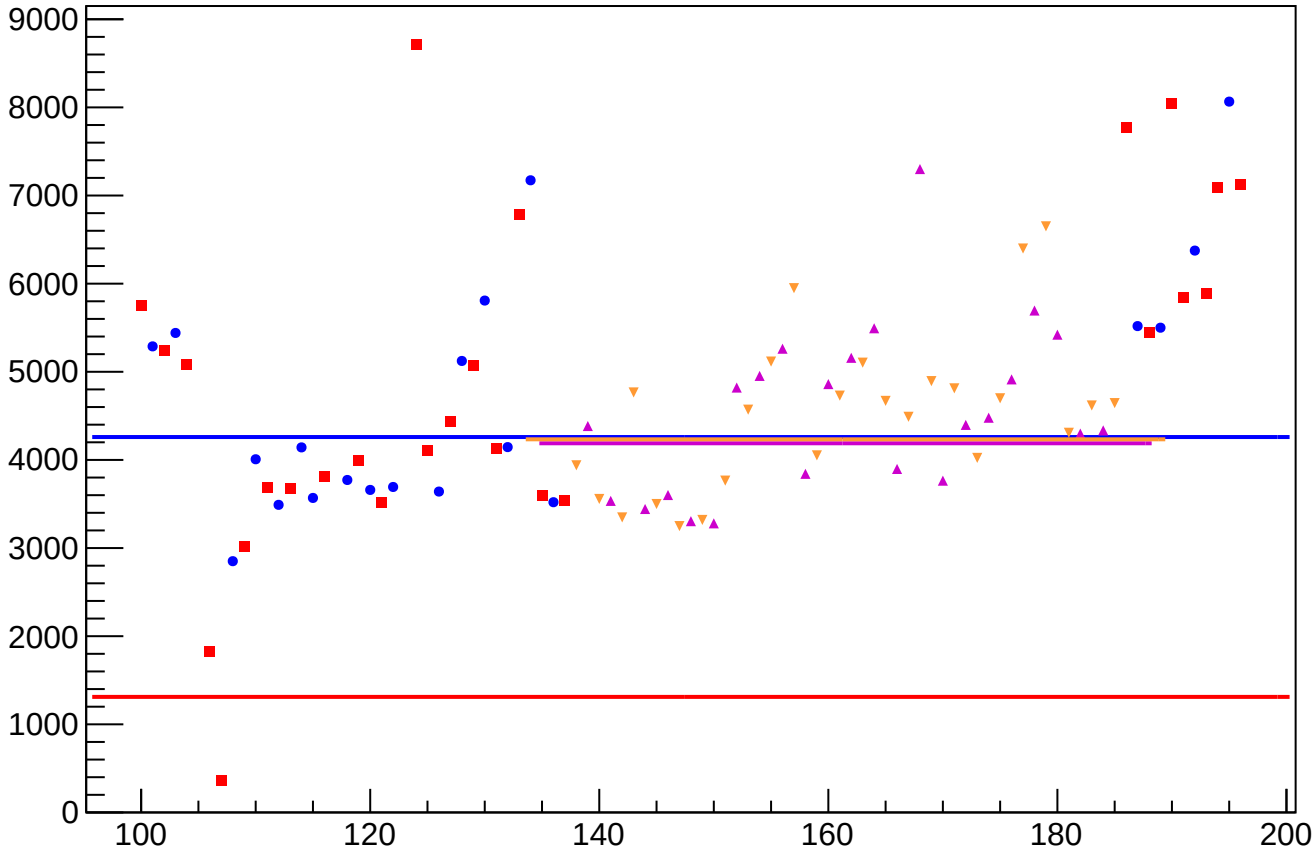
Left: -44.139+/-701.775 $\chi^2$/NDF: 40.9/47

Right: 845.094+/-586.089 $\chi^2$/NDF: 47.5/45

In: 363.944+/-817.189 $\chi^2$/NDF:31.8/42

Out: 530.050+/-538.831 $\chi^2$/NDF:57.5/50

All: 479.716+/-449.844 $\chi^2$/NDF: 89.3/93




Right In: 4259.715+/-1.002 $\chi^2$/NDF: 1416786.7/19

Left Out: 4233.911+/-0.696 $\chi^2$/NDF:1284785.6/24

Right Out: 1311.249+/-0.455 $\chi^2$/NDF: 15449549.5/25

Left In: 4188.880+/-0.707 $\chi^2$/NDF:1344607.0/22

Left: 4211.738+/-0.496 $\chi^2$/NDF: 2631450.8/47

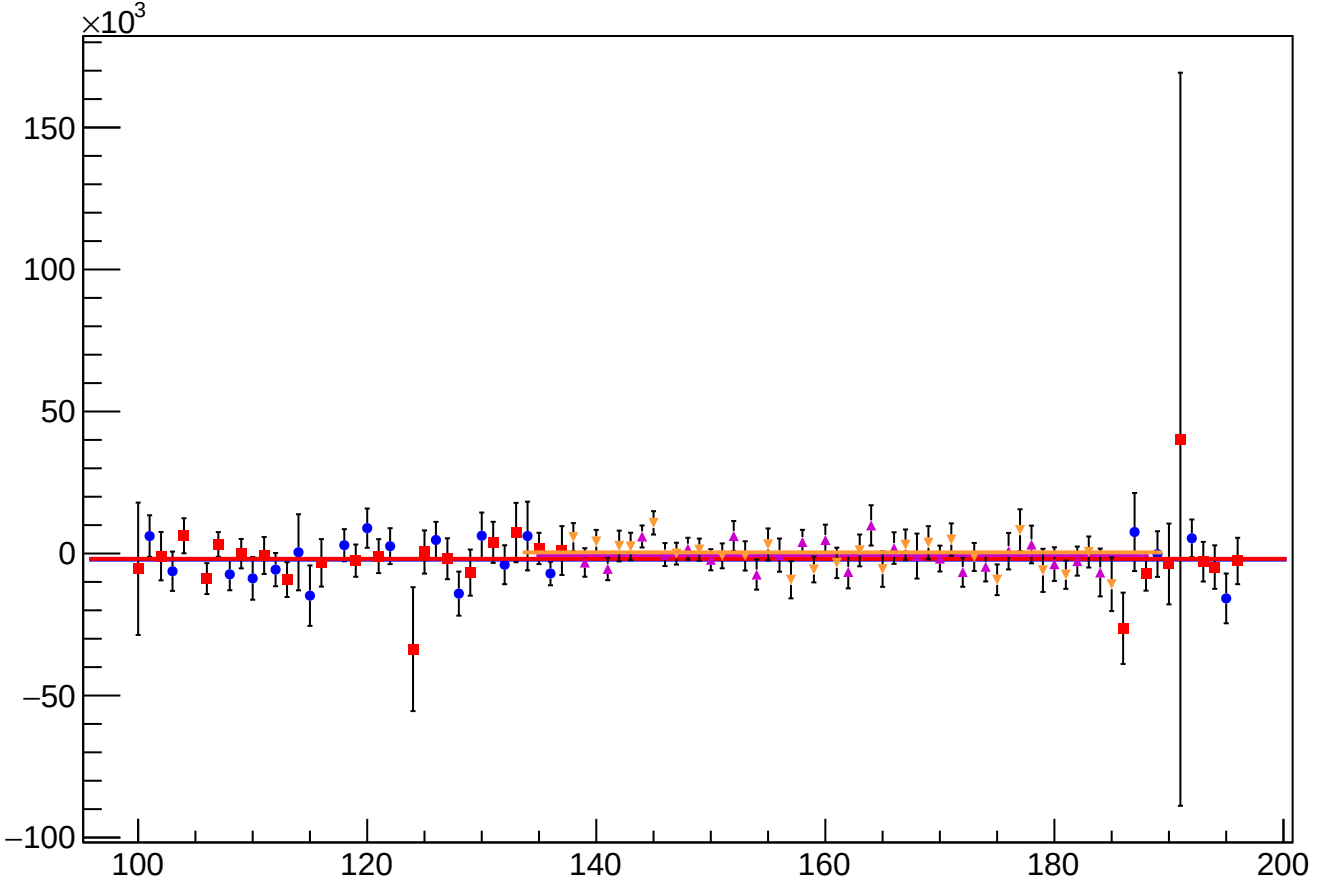
Right: 1815.295+/-0.414 $\chi^2$/NDF: 24040114.5/45

In: 4212.422+/-0.578 $\chi^2$/NDF:2764728.2/42

Out: 2185.880+/-0.381 $\chi^2$/NDF:29073487.0/50

All: 2799.973+/-0.318 $\chi^2$/NDF: 40410830.9/9

# asym_atl1r2_dd_mean vs Slug, Sign Corrected




Right In: -2142.979+/-1563.911 $\chi^2$/NDF: 19.8/19

Left Out: 398.336+/-1028.431 $\chi^2$/NDF:24.7/24

Right Out: -1874.840+/-1399.302 $\chi^2$/NDF: 15.9/25

Left In: -502.999+/-1049.682 $\chi^2$/NDF:17.3/22

Left: -43.115+/-734.609 $\chi^2$/NDF: 42.4/47

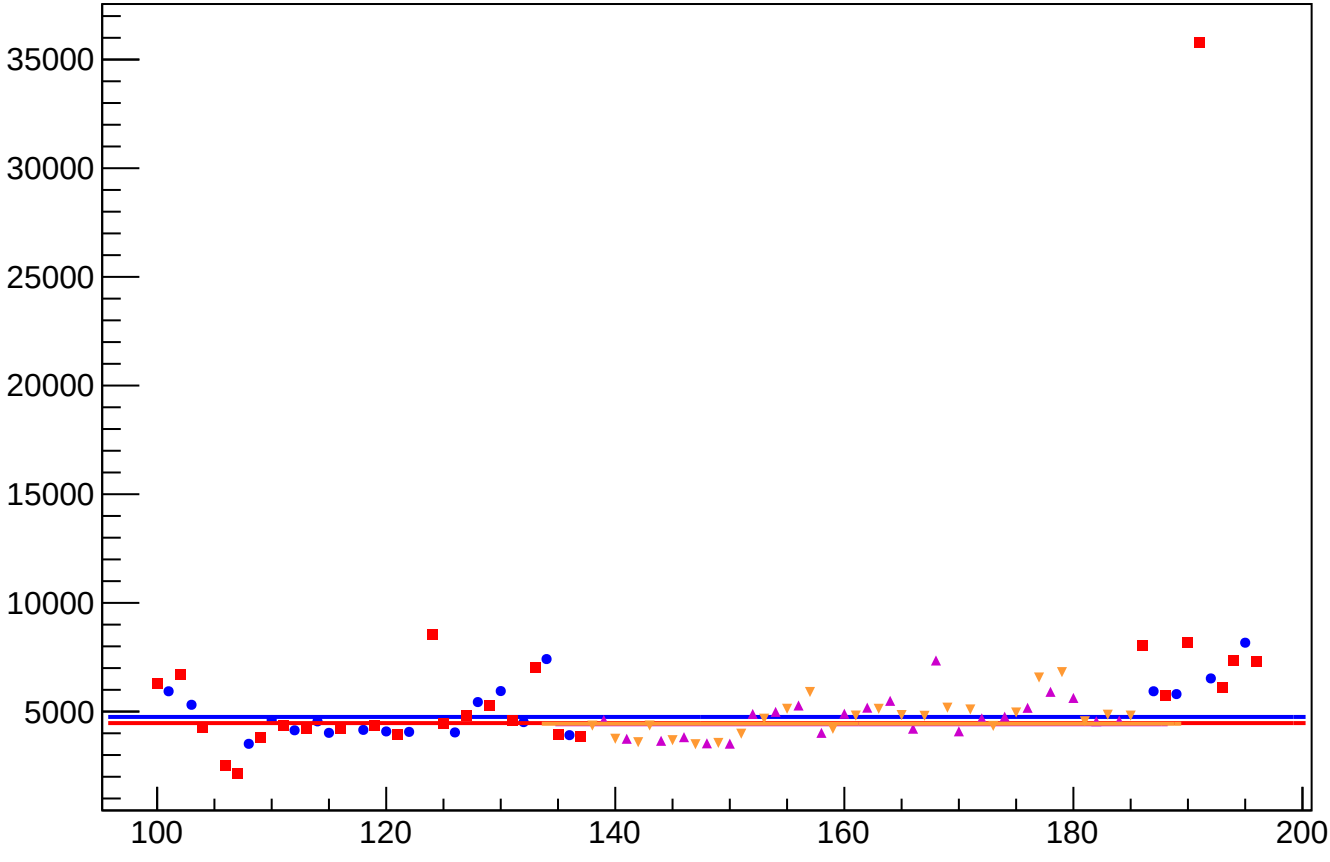
Right: -1994.060+/-1042.813 $\chi^2$/NDF: 35.7/45

In: -1012.345+/-871.564 $\chi^2$/NDF:37.9/42

Out: -398.911+/-828.689 $\chi^2$/NDF:42.3/50

All: -690.169+/-600.557 $\chi^2$/NDF: 80.5/93

# asym_atl1r2_dd_rms vs Slug, Sign Corrected




Right In: 4752.142+/-1.106 $\chi^2$/NDF: 1019453.1/19

Left Out: 4440.810+/-0.727 $\chi^2$/NDF:1073119.1/24

Right Out: 4469.146+/-0.981 $\chi^2$/NDF: 2490601.7/25

Left In: 4415.366+/-0.742 $\chi^2$/NDF:1111411.1/22

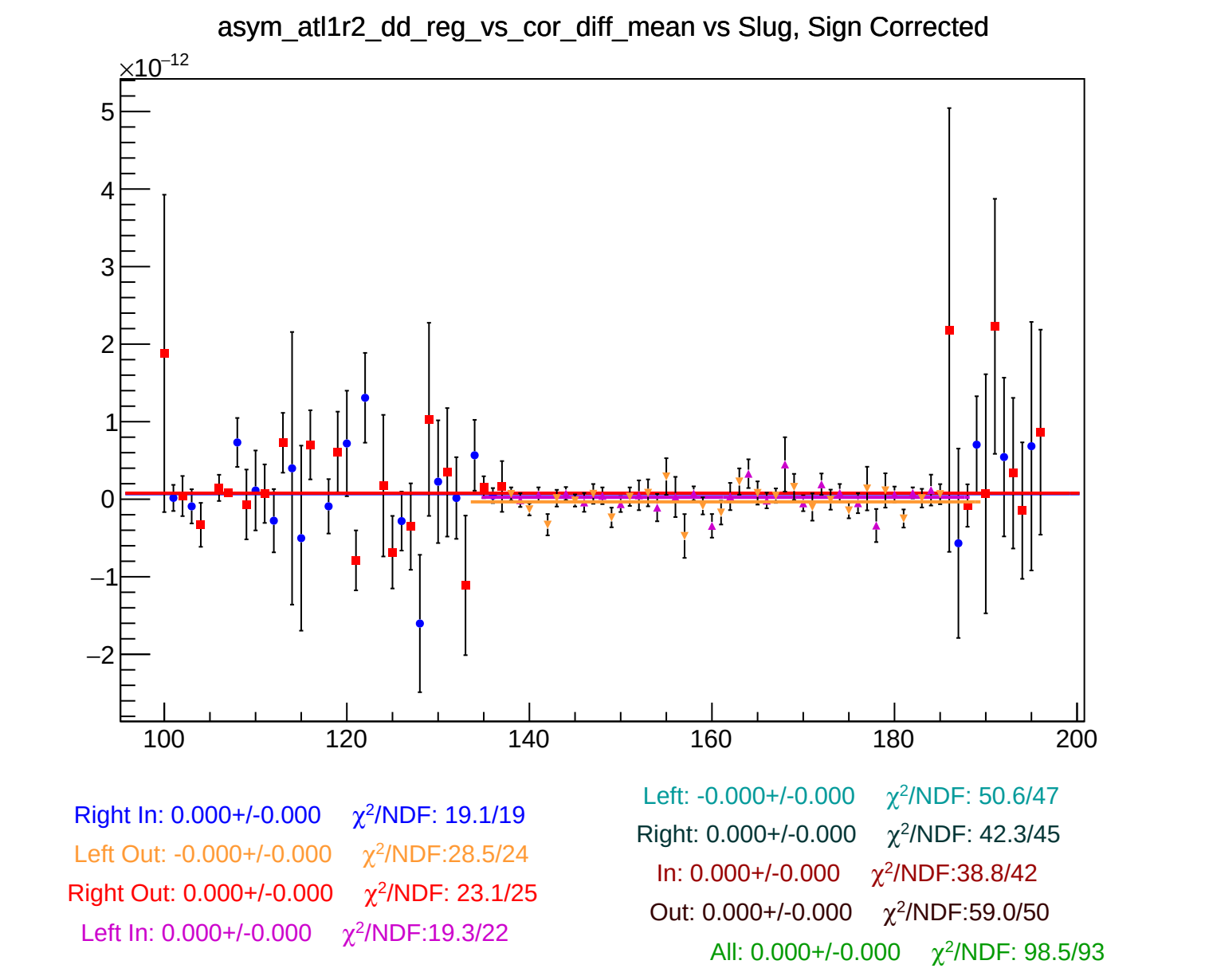
Left: 4428.348+/-0.519 $\chi^2$/NDF: 2185129.8/47

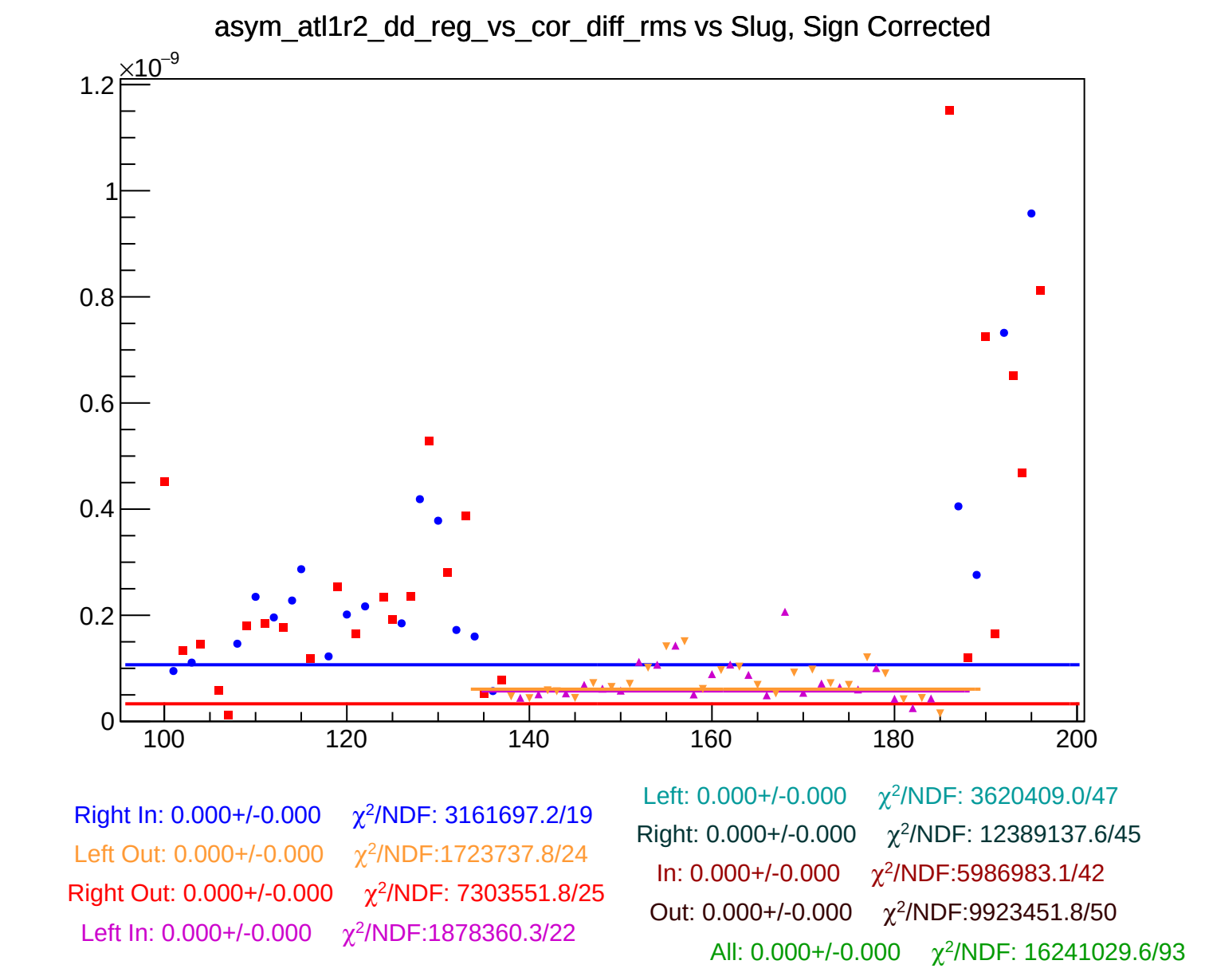
Right: 4593.831+/-0.734 $\chi^2$/NDF: 3546690.2/45

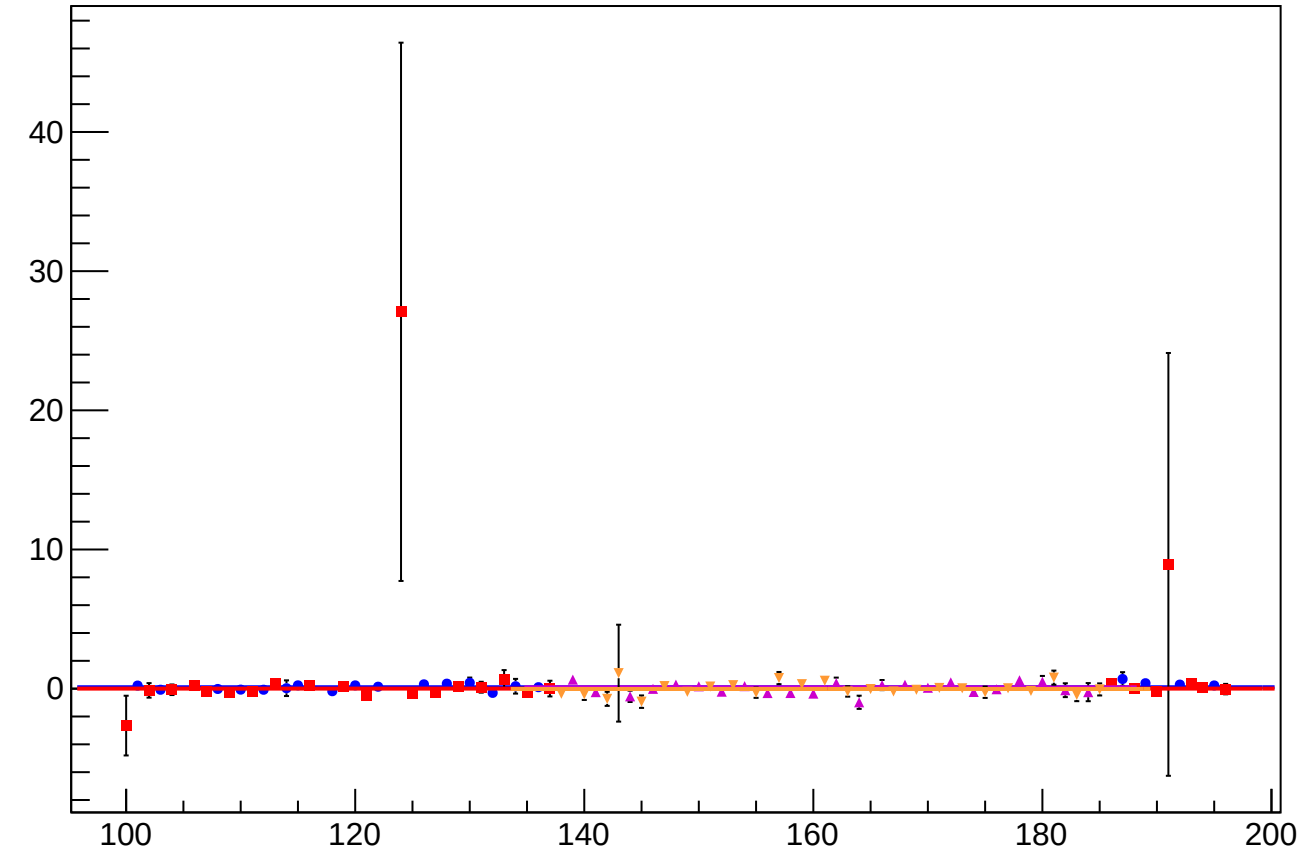
In: 4519.962+/-0.616 $\chi^2$/NDF:2194804.2/42

Out: 4450.854+/-0.584 $\chi^2$/NDF:3564258.9/50

All: 4483.567+/-0.424 $\chi^2$/NDF: 5765685.4/93


asym_atl1r2_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
5
4
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 19.1/19
Left Out: -0.000+/-0.000 χ²/NDF:28.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 23.1/25
Left In: 0.000+/-0.000 χ²/NDF:19.3/22
Left: -0.000+/-0.000 χ²/NDF: 50.6/47
Right: 0.000+/-0.000 χ²/NDF: 42.3/45
In: 0.000+/-0.000 χ²/NDF:38.8/42
Out: 0.000+/-0.000 χ²/NDF:59.0/50
All: 0.000+/-0.000 χ²/NDF: 98.5/93


asym_atl1r2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3161697.2/19
Left Out: 0.000+/-0.000 χ²/NDF:1723737.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 7303551.8/25
Left In: 0.000+/-0.000 χ²/NDF:1878360.3/22
Left: 0.000+/-0.000 χ²/NDF: 3620409.0/47
Right: 0.000+/-0.000 χ²/NDF: 12389137.6/45
In: 0.000+/-0.000 χ²/NDF:5986983.1/42
Out: 0.000+/-0.000 χ²/NDF:9923451.8/50
All: 0.000+/-0.000 χ²/NDF: 16241029.6/93




Right In: 0.103+/-0.060 $\chi^2$/NDF: 12.1/19

Left Out: -0.024+/-0.062 $\chi^2$/NDF:23.5/24

Right Out: 0.005+/-0.051 $\chi^2$/NDF: 26.4/25

Left In: 0.095+/-0.063 $\chi^2$/NDF:31.5/22

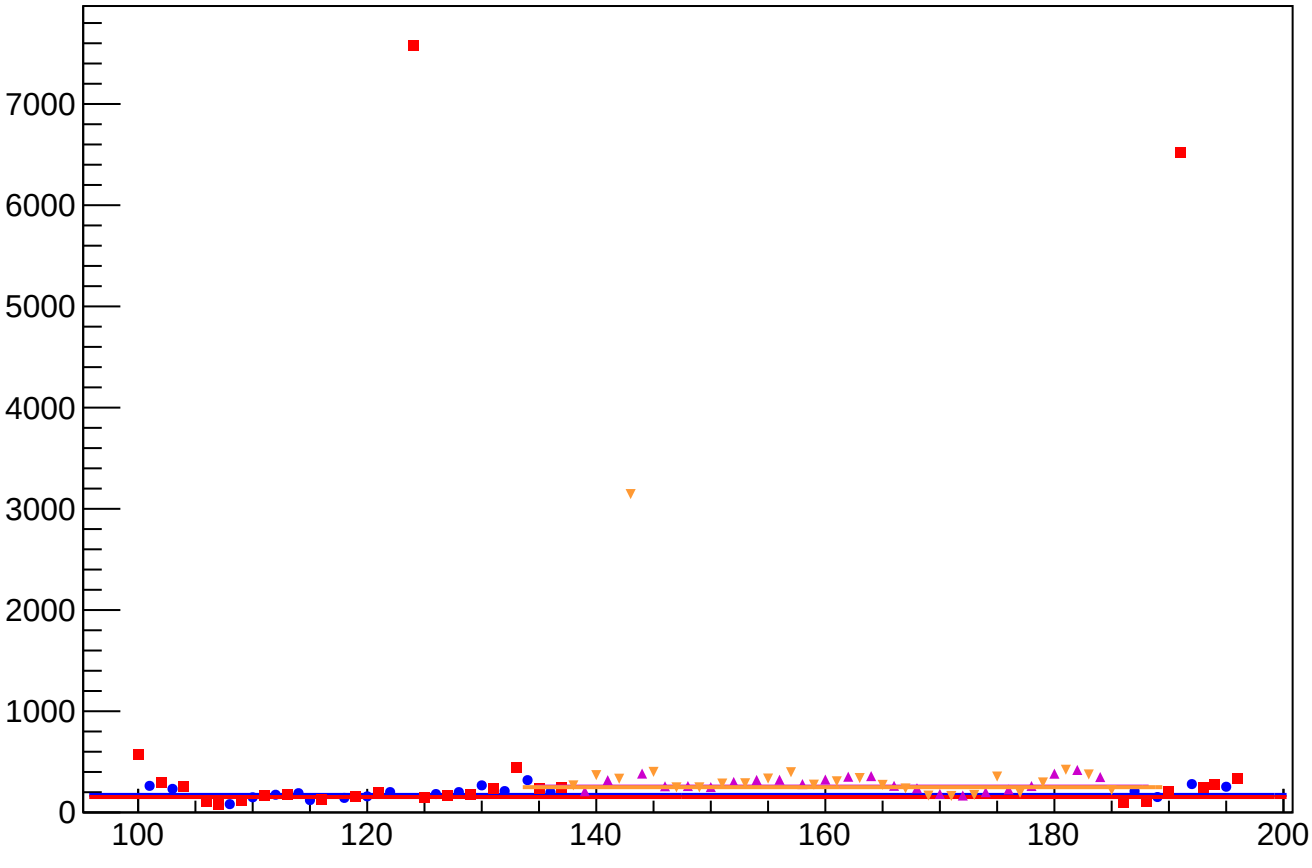
Left: 0.034+/-0.044 $\chi^2$/NDF: 56.9/47

Right: 0.046+/-0.039 $\chi^2$/NDF: 40.1/45

In: 0.099+/-0.044 $\chi^2$/NDF:43.6/42

Out: -0.007+/-0.039 $\chi^2$/NDF:50.1/50

All: 0.041+/-0.029 $\chi^2$/NDF: 97.0/93




Right In: 173.503+/-0.043 $\chi^2$/NDF: 1967406.2/19

Left Out: 249.848+/-0.044 $\chi^2$/NDF:4234507.4/24

Right Out: 152.372+/-0.036 $\chi^2$/NDF: 3824406.4/25

Left In: 255.299+/-0.045 $\chi^2$/NDF:2111552.0/22

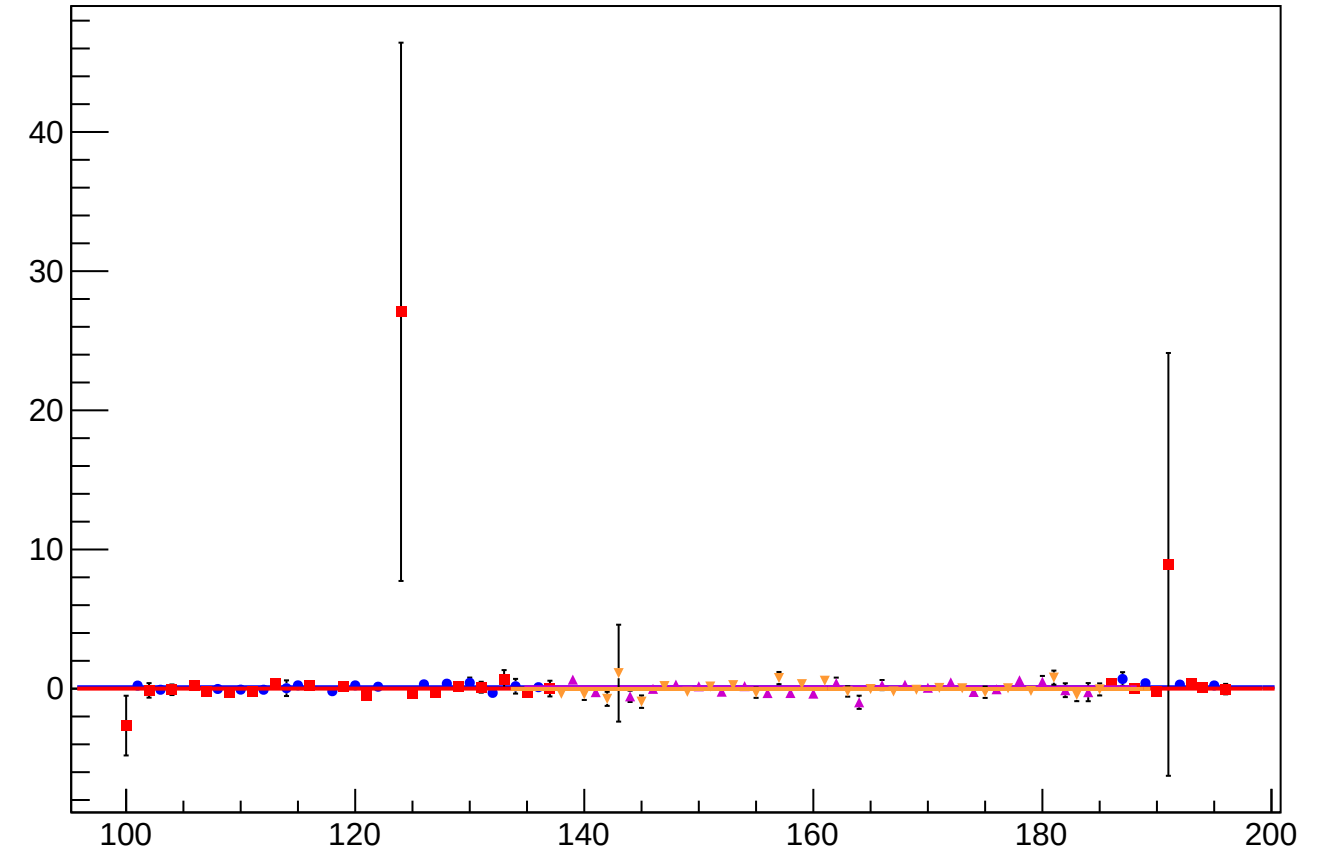
Left: 252.513+/-0.031 $\chi^2$/NDF: 6353711.9/47

Right: 161.196+/-0.027 $\chi^2$/NDF: 5935594.3/45

In: 212.507+/-0.031 $\chi^2$/NDF:5842689.3/42

Out: 191.932+/-0.028 $\chi^2$/NDF:11032630.3/50

All: 201.166+/-0.021 $\chi^2$/NDF: 17121893.0/93




Right In: 0.103+/-0.060 $\chi^2$/NDF: 12.1/19

Left Out: -0.024+/-0.062 $\chi^2$/NDF:23.5/24

Right Out: 0.005+/-0.051 $\chi^2$/NDF: 26.4/25

Left In: 0.095+/-0.063 $\chi^2$/NDF:31.5/22

Left: 0.034+/-0.044 $\chi^2$/NDF: 56.9/47

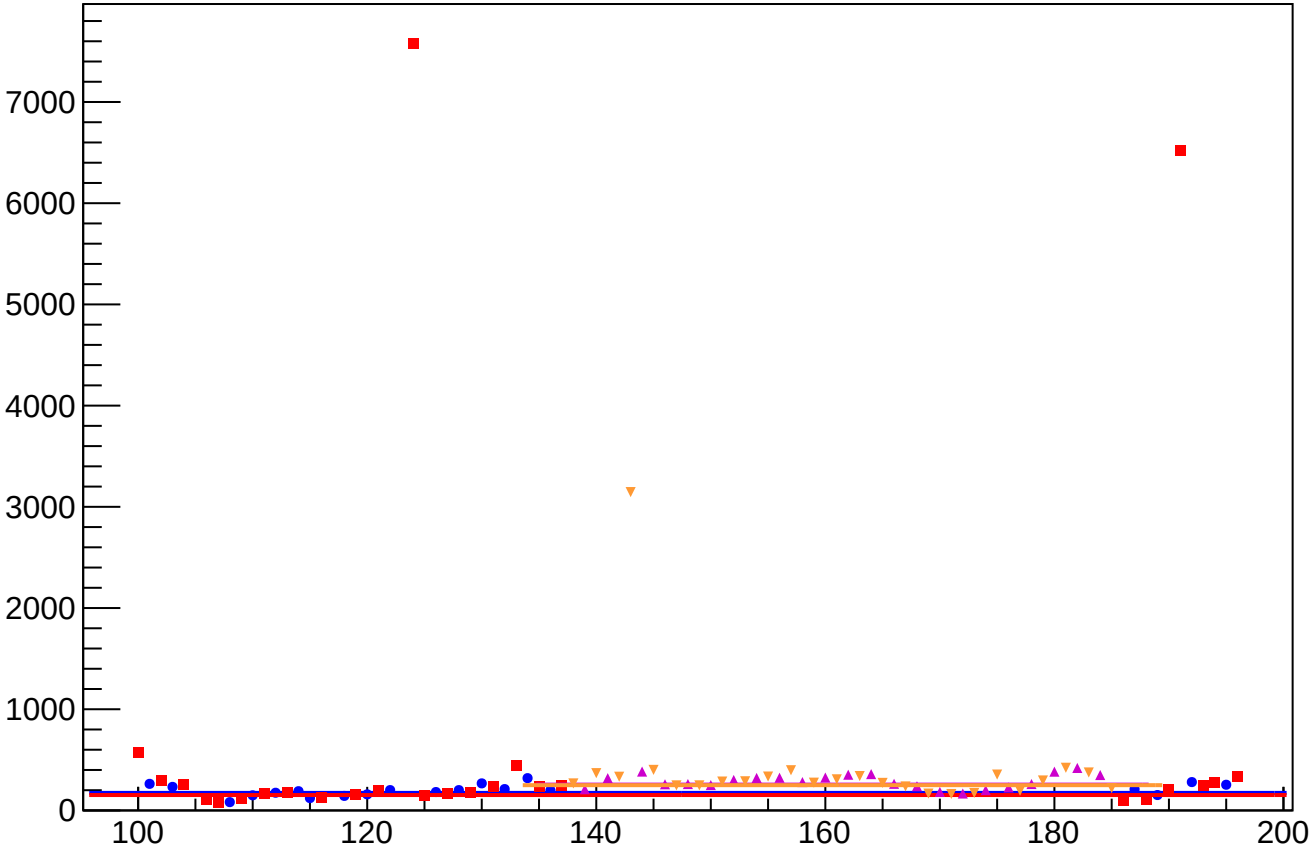
Right: 0.046+/-0.039 $\chi^2$/NDF: 40.1/45

In: 0.099+/-0.044 $\chi^2$/NDF:43.6/42

Out: -0.007+/-0.039 $\chi^2$/NDF:50.1/50

All: 0.041+/-0.029 $\chi^2$/NDF: 97.0/93

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 173.503+/-0.043 $\chi^2$/NDF: 1967406.2/19

Left Out: 249.848+/-0.044 $\chi^2$/NDF:4234507.4/24

Right Out: 152.372+/-0.036 $\chi^2$/NDF: 3824406.4/25

Left In: 255.299+/-0.045 $\chi^2$/NDF:2111552.0/22

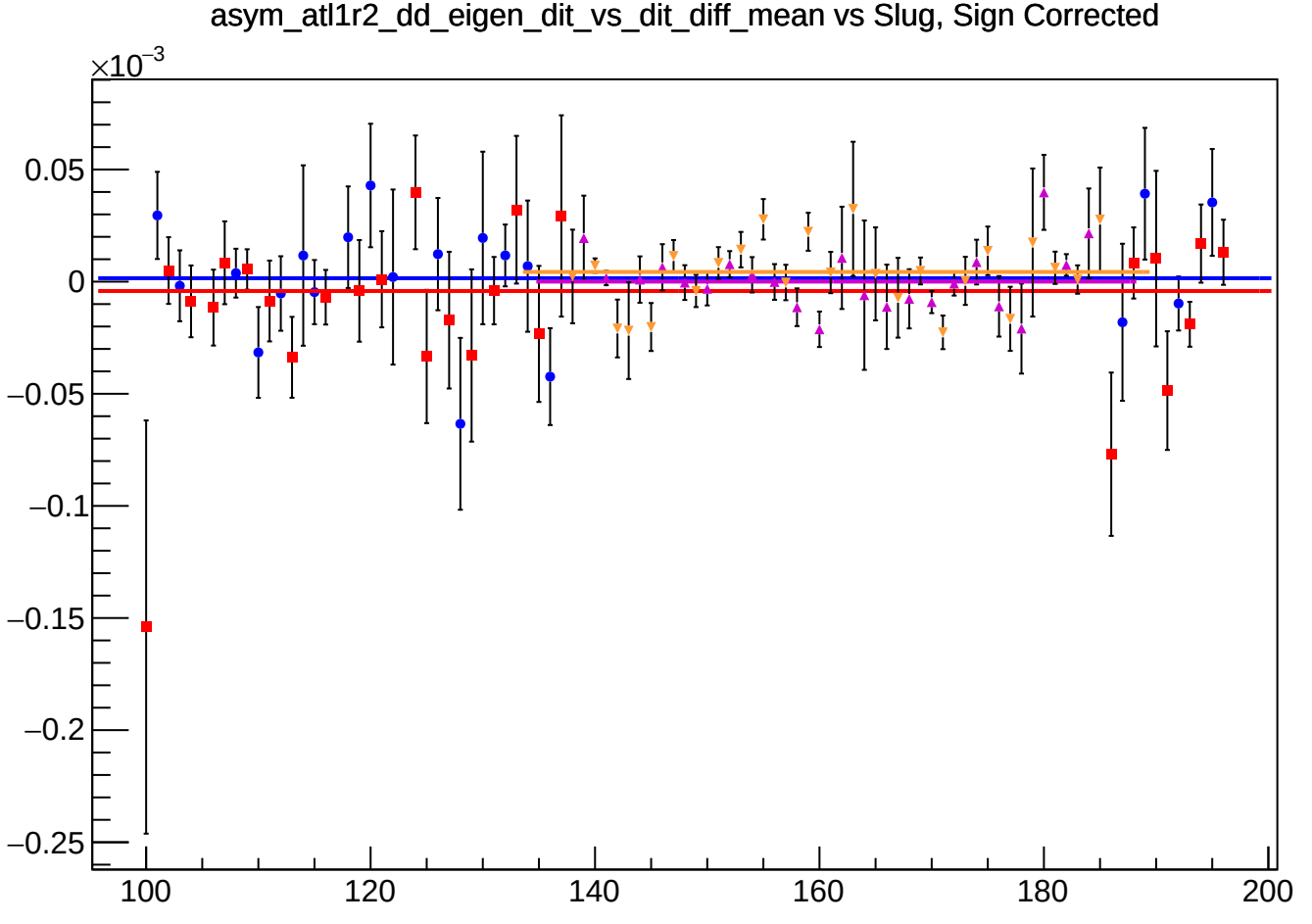
Left: 252.513+/-0.031 $\chi^2$/NDF: 6353711.9/47

Right: 161.196+/-0.027 $\chi^2$/NDF: 5935594.3/45

In: 212.507+/-0.031 $\chi^2$/NDF:5842689.3/42

Out: 191.932+/-0.028 $\chi^2$/NDF:11032630.3/50

All: 201.166+/-0.021 $\chi^2$/NDF: 17121893.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:46.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.0/22

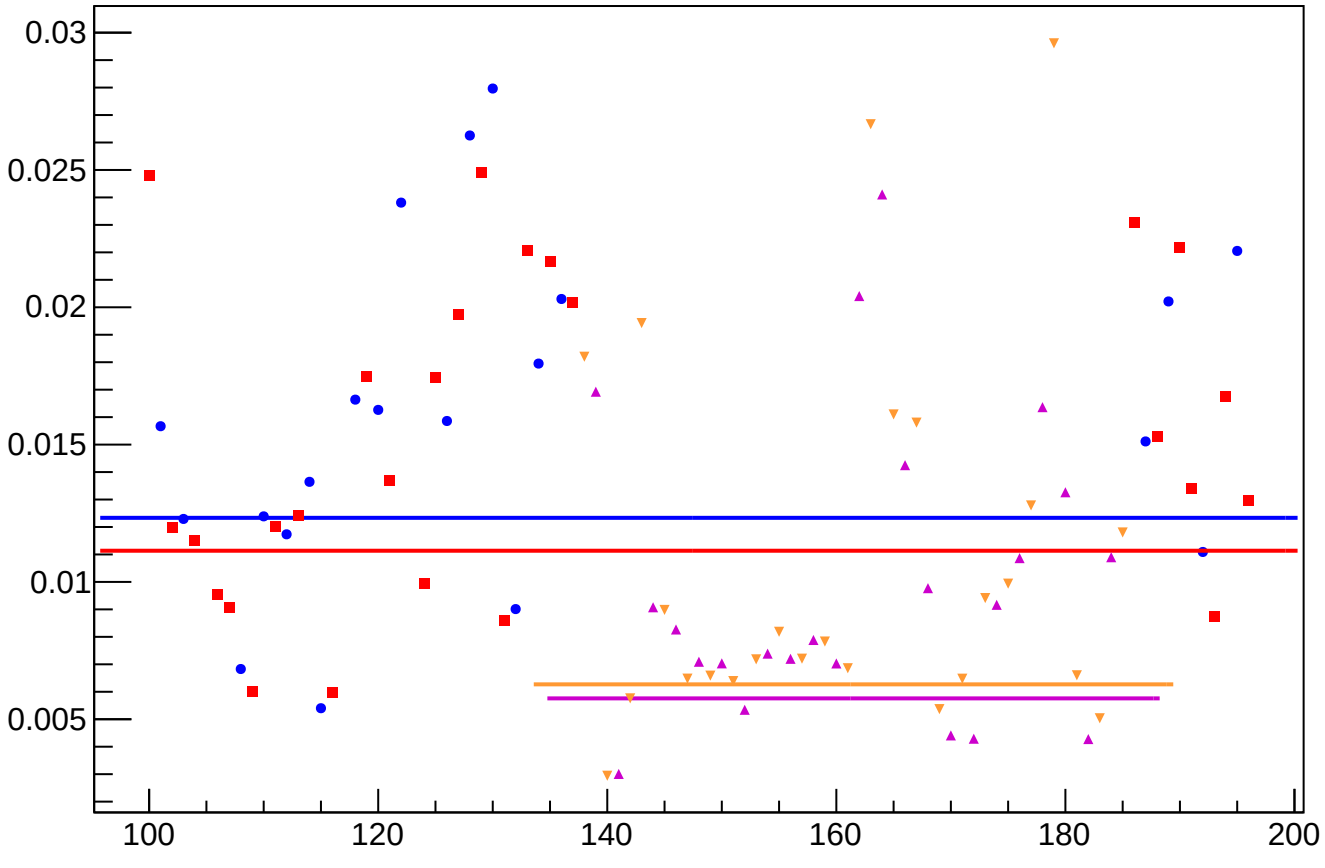
Left: 0.000+/-0.000 $\chi^2$/NDF: 78.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 49.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:50.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:78.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 129.7/93




Right In: 0.012+/-0.000 $\chi^2$/NDF: 2936716.4/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7909965.6/24

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 3290197.3/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:7081814.9/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 15091688.1/47

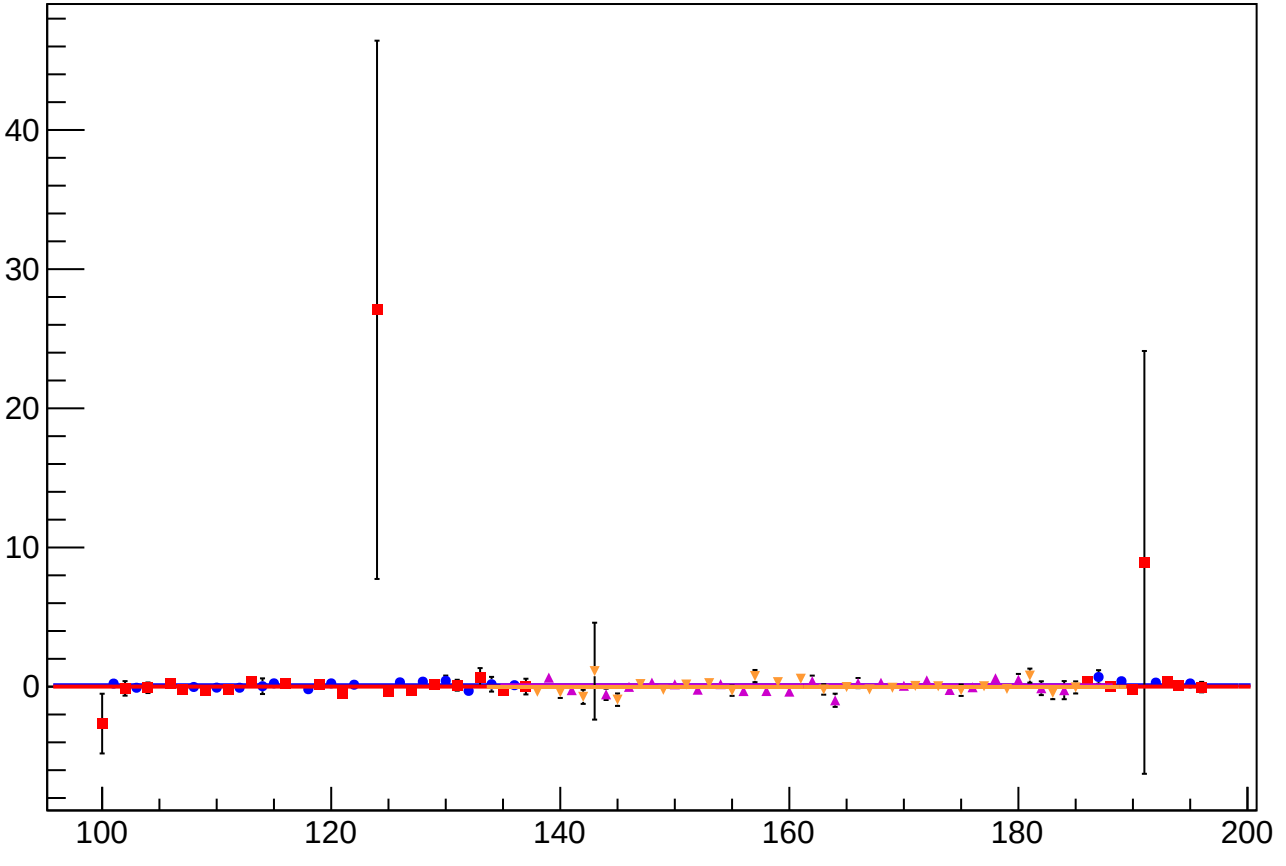
Right: 0.012+/-0.000 $\chi^2$/NDF: 6318358.6/45

In: 0.007+/-0.000 $\chi^2$/NDF:14046311.0/42

Out: 0.007+/-0.000 $\chi^2$/NDF:14325519.1/50

All: 0.007+/-0.000 $\chi^2$/NDF: 28545280.0/93

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.103+/-0.060 $\chi^2$/NDF: 12.1/19

Left Out: -0.024+/-0.062 $\chi^2$/NDF:23.5/24

Right Out: 0.005+/-0.051 $\chi^2$/NDF: 26.4/25

Left In: 0.095+/-0.063 $\chi^2$/NDF:31.5/22

Left: 0.034+/-0.044 $\chi^2$/NDF: 56.9/47

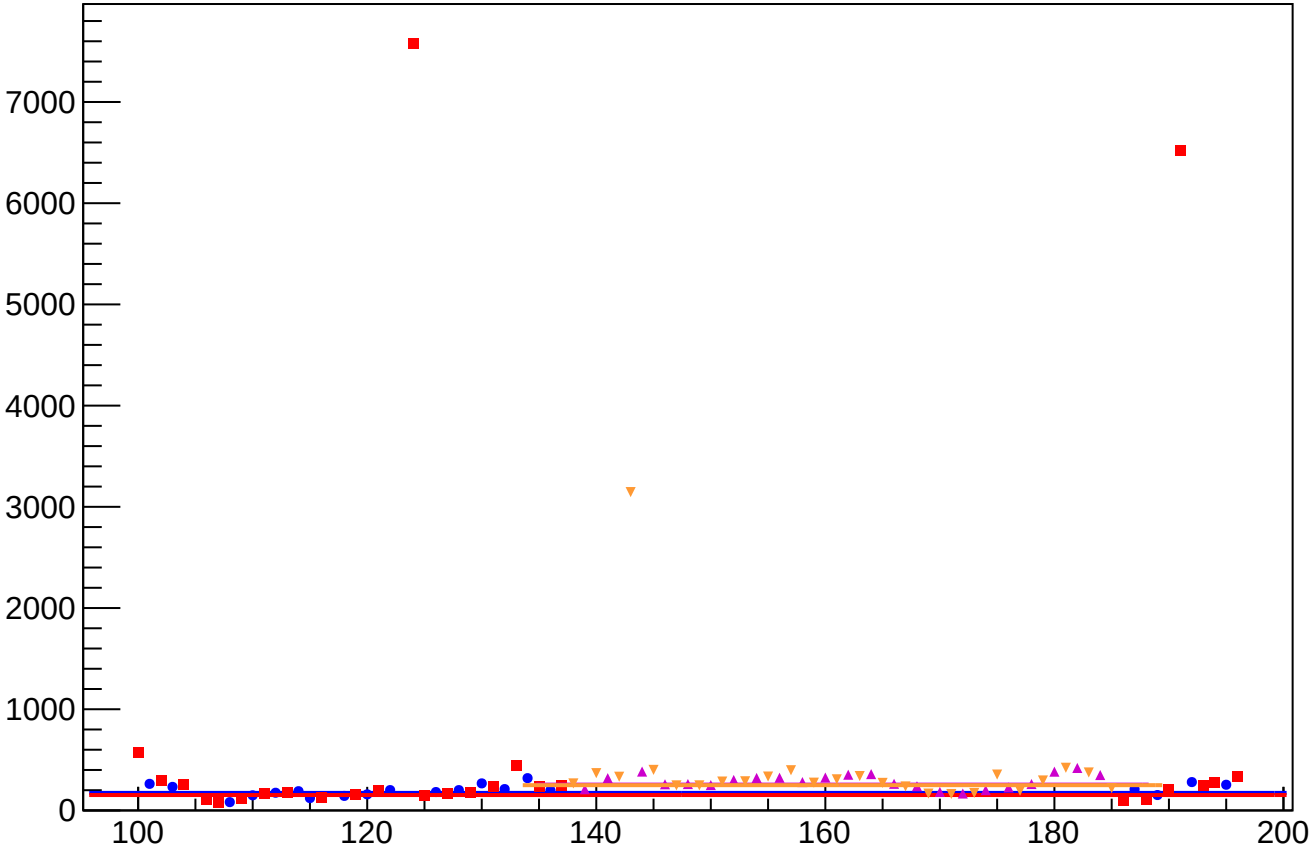
Right: 0.046+/-0.039 $\chi^2$/NDF: 40.1/45

In: 0.099+/-0.044 $\chi^2$/NDF:43.6/42

Out: -0.007+/-0.039 $\chi^2$/NDF:50.1/50

All: 0.041+/-0.029 $\chi^2$/NDF: 97.0/93

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 173.501+/-0.043 $\chi^2$/NDF: 1967403.4/19

Left Out: 249.850+/-0.044 $\chi^2$/NDF:4234600.7/24

Right Out: 152.374+/-0.036 $\chi^2$/NDF: 3824279.9/25

Left In: 255.302+/-0.045 $\chi^2$/NDF:2111585.0/22

Left: 252.515+/-0.031 $\chi^2$/NDF: 6353840.1/47

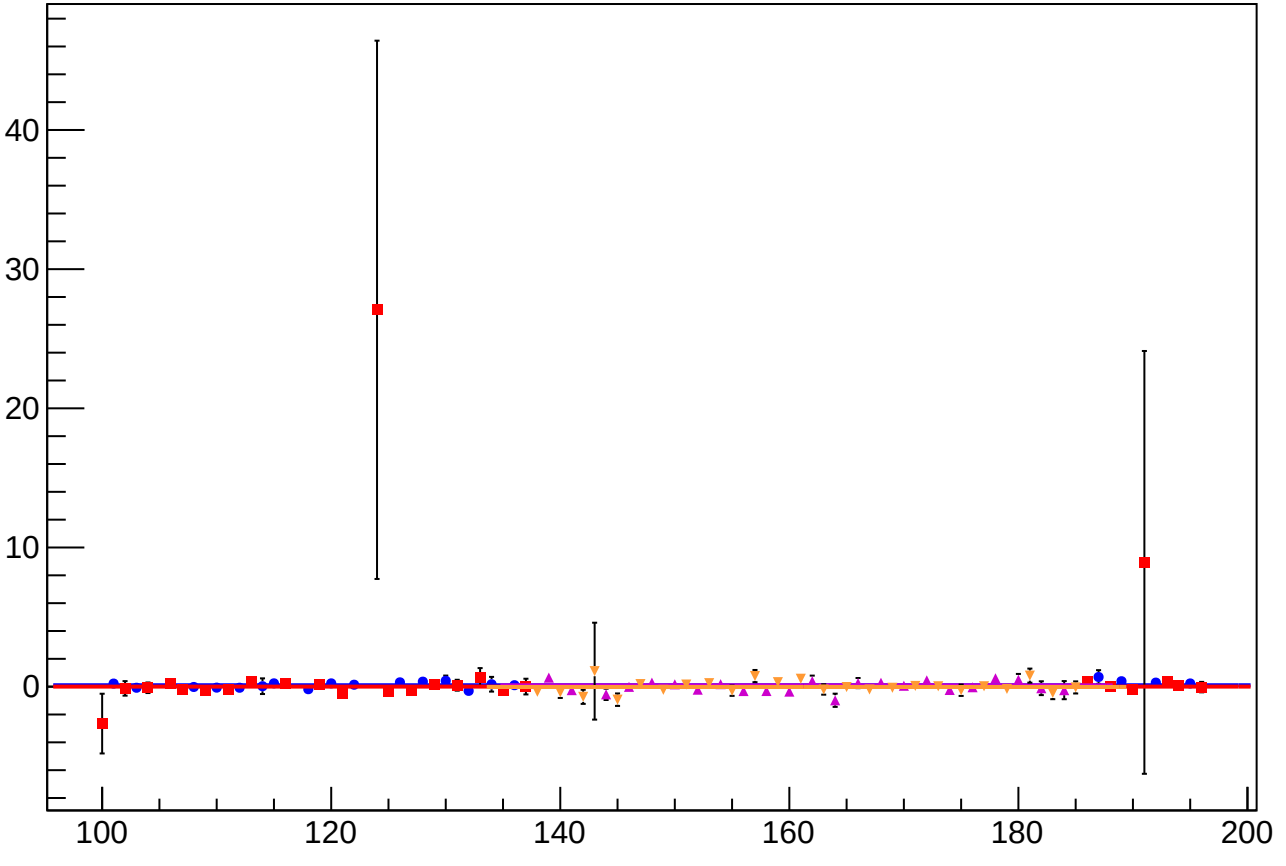
Right: 161.196+/-0.027 $\chi^2$/NDF: 5935407.0/45

In: 212.506+/-0.031 $\chi^2$/NDF:5842912.2/42

Out: 191.934+/-0.028 $\chi^2$/NDF:11032509.0/50

All: 201.167+/-0.021 $\chi^2$/NDF: 17121922.5/93

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.103+/-0.060 $\chi^2$/NDF: 12.1/19

Left Out: -0.024+/-0.062 $\chi^2$/NDF:23.5/24

Right Out: 0.005+/-0.051 $\chi^2$/NDF: 26.4/25

Left In: 0.095+/-0.063 $\chi^2$/NDF:31.5/22

Left: 0.034+/-0.044 $\chi^2$/NDF: 56.9/47

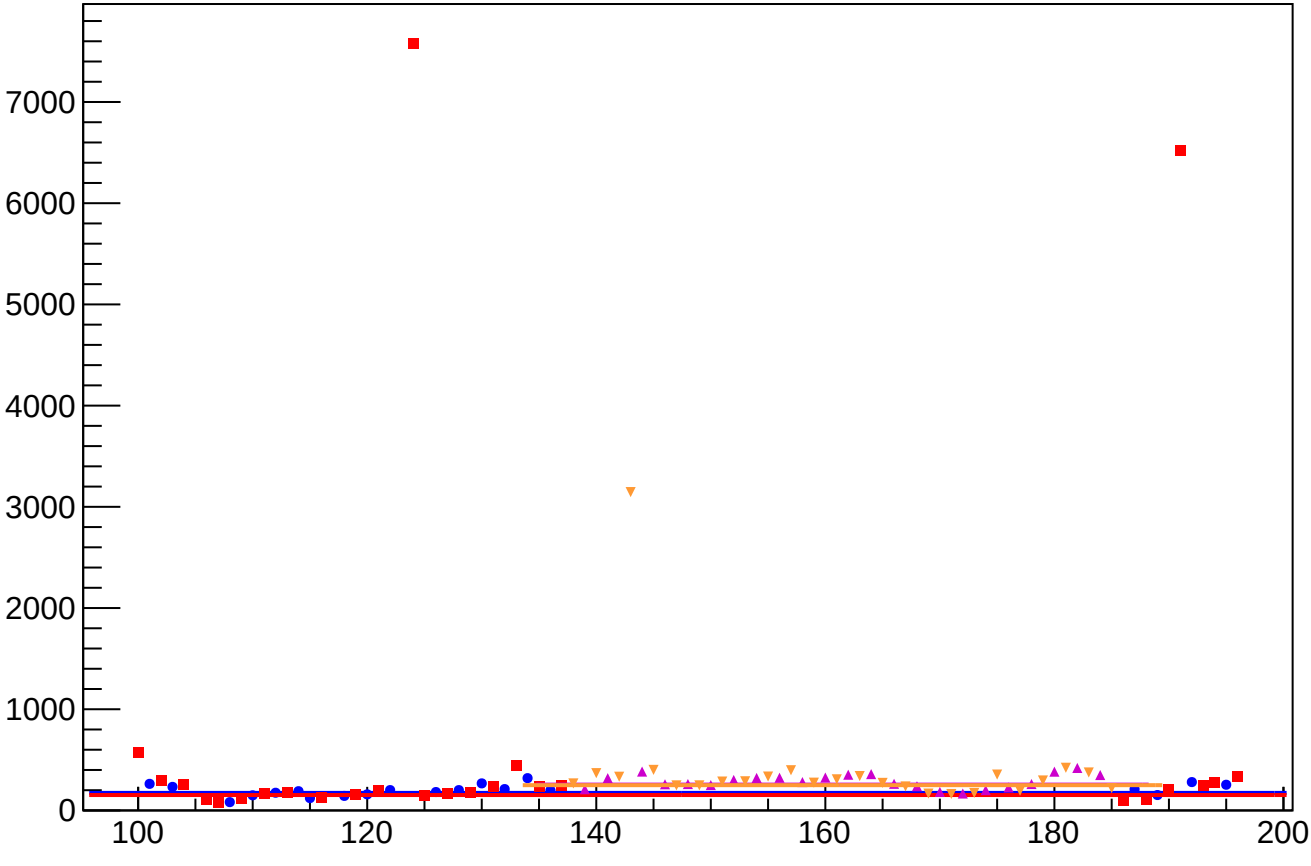
Right: 0.046+/-0.039 $\chi^2$/NDF: 40.1/45

In: 0.099+/-0.044 $\chi^2$/NDF:43.6/42

Out: -0.007+/-0.039 $\chi^2$/NDF:50.1/50

All: 0.041+/-0.029 $\chi^2$/NDF: 97.0/93

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 173.501+/-0.043 $\chi^2$/NDF: 1967403.4/19

Left Out: 249.850+/-0.044 $\chi^2$/NDF:4234600.7/24

Right Out: 152.374+/-0.036 $\chi^2$/NDF: 3824279.9/25

Left In: 255.302+/-0.045 $\chi^2$/NDF:2111585.0/22

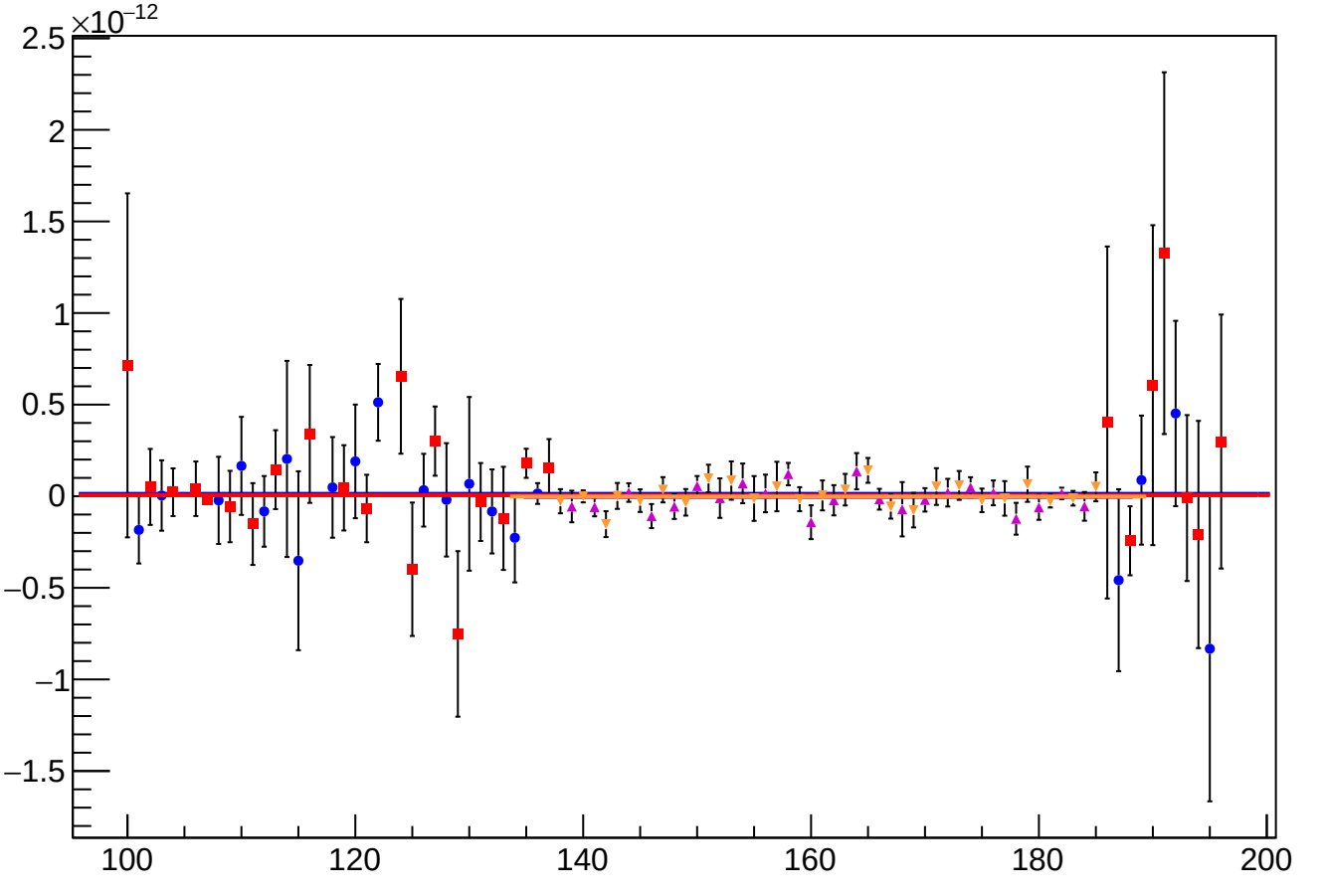
Left: 252.515+/-0.031 $\chi^2$/NDF: 6353840.1/47

Right: 161.196+/-0.027 $\chi^2$/NDF: 5935407.0/45

In: 212.506+/-0.031 $\chi^2$/NDF:5842912.2/42

Out: 191.934+/-0.028 $\chi^2$/NDF:11032509.0/50

All: 201.167+/-0.021 $\chi^2$/NDF: 17121922.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 22.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.9/22

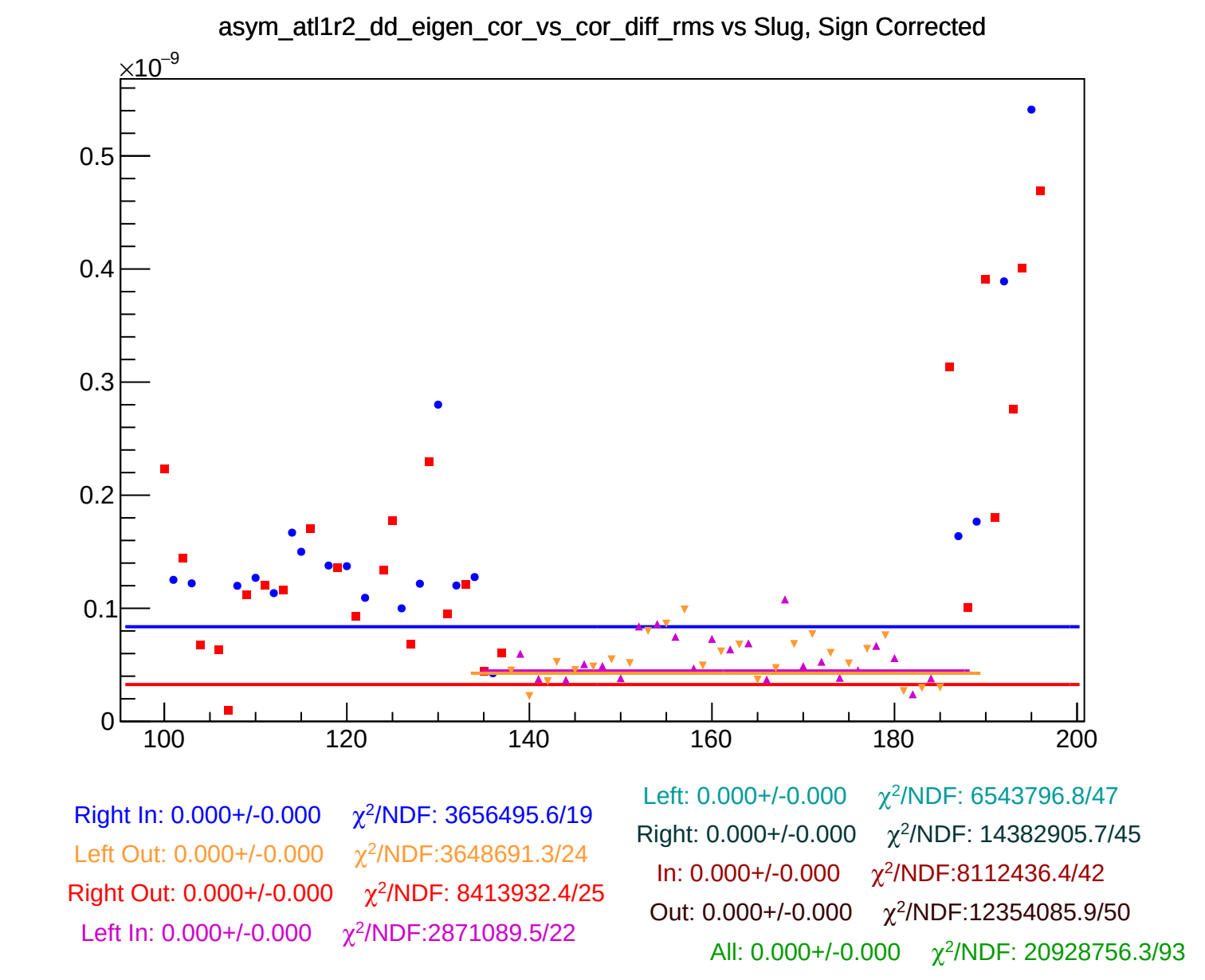
Left: -0.000+/-0.000 $\chi^2$/NDF: 36.2/47

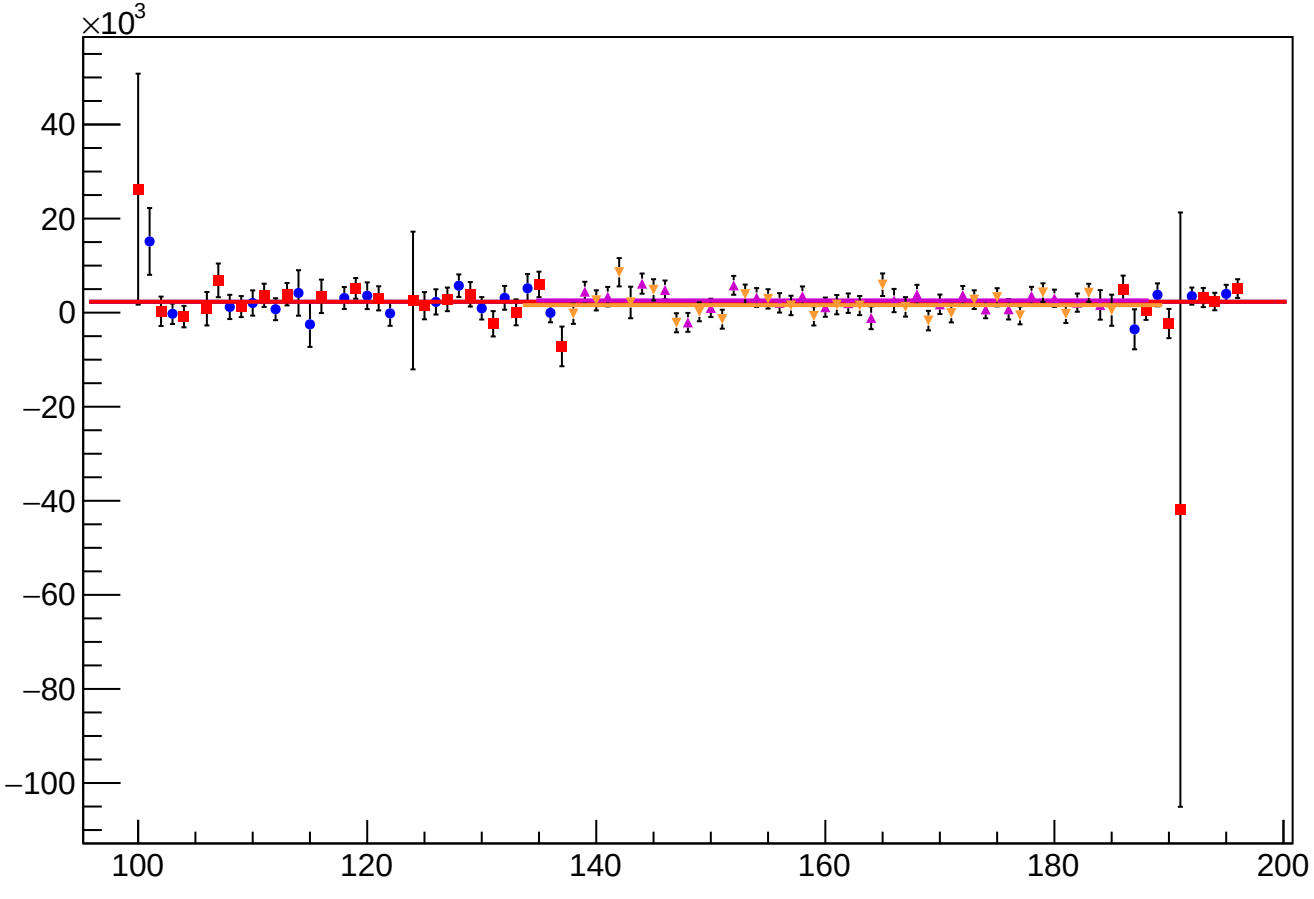
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:32.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:39.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 71.7/93


asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3656495.6/19
Left Out: 0.000+/-0.000 χ²/NDF:3648691.3/24
Right Out: 0.000+/-0.000 χ²/NDF: 8413932.4/25
Left In: 0.000+/-0.000 χ²/NDF:2871089.5/22
Left: 0.000+/-0.000 χ²/NDF: 6543796.8/47
Right: 0.000+/-0.000 χ²/NDF: 14382905.7/45
In: 0.000+/-0.000 χ²/NDF:8112436.4/42
Out: 0.000+/-0.000 χ²/NDF:12354085.9/50
All: 0.000+/-0.000 χ²/NDF: 20928756.3/93




Right In: 2308.509+/-573.644 $\chi^2$/NDF: 15.8/19

Left Out: 1592.464+/-423.298 $\chi^2$/NDF:31.3/24

Right Out: 2317.184+/-528.293 $\chi^2$/NDF: 25.5/25

Left In: 2597.740+/-430.293 $\chi^2$/NDF:20.1/22

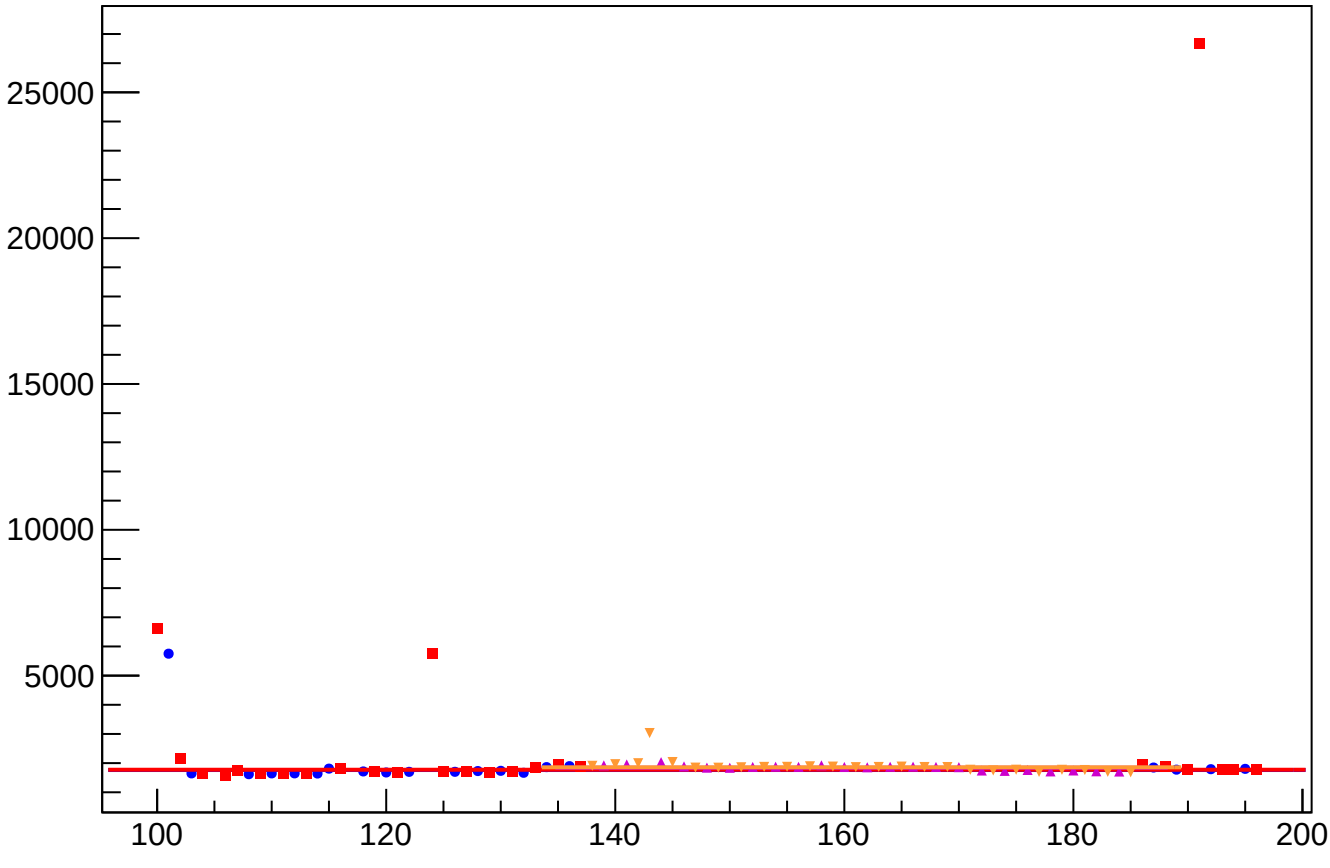
Left: 2086.864+/-301.760 $\chi^2$/NDF: 54.1/47

Right: 2313.203+/-388.605 $\chi^2$/NDF: 41.4/45

In: 2493.598+/-344.217 $\chi^2$/NDF:36.1/42

Out: 1875.823+/-330.338 $\chi^2$/NDF:57.9/50

All: 2172.005+/-238.340 $\chi^2$/NDF: 95.7/93




Right In: 1763.286+/-0.406 $\chi^2$/NDF: 673467.9/19

Left Out: 1855.560+/-0.299 $\chi^2$/NDF:324267.7/24

Right Out: 1772.530+/-0.372 $\chi^2$/NDF: 638792.6/25

Left In: 1840.981+/-0.304 $\chi^2$/NDF:70985.8/22

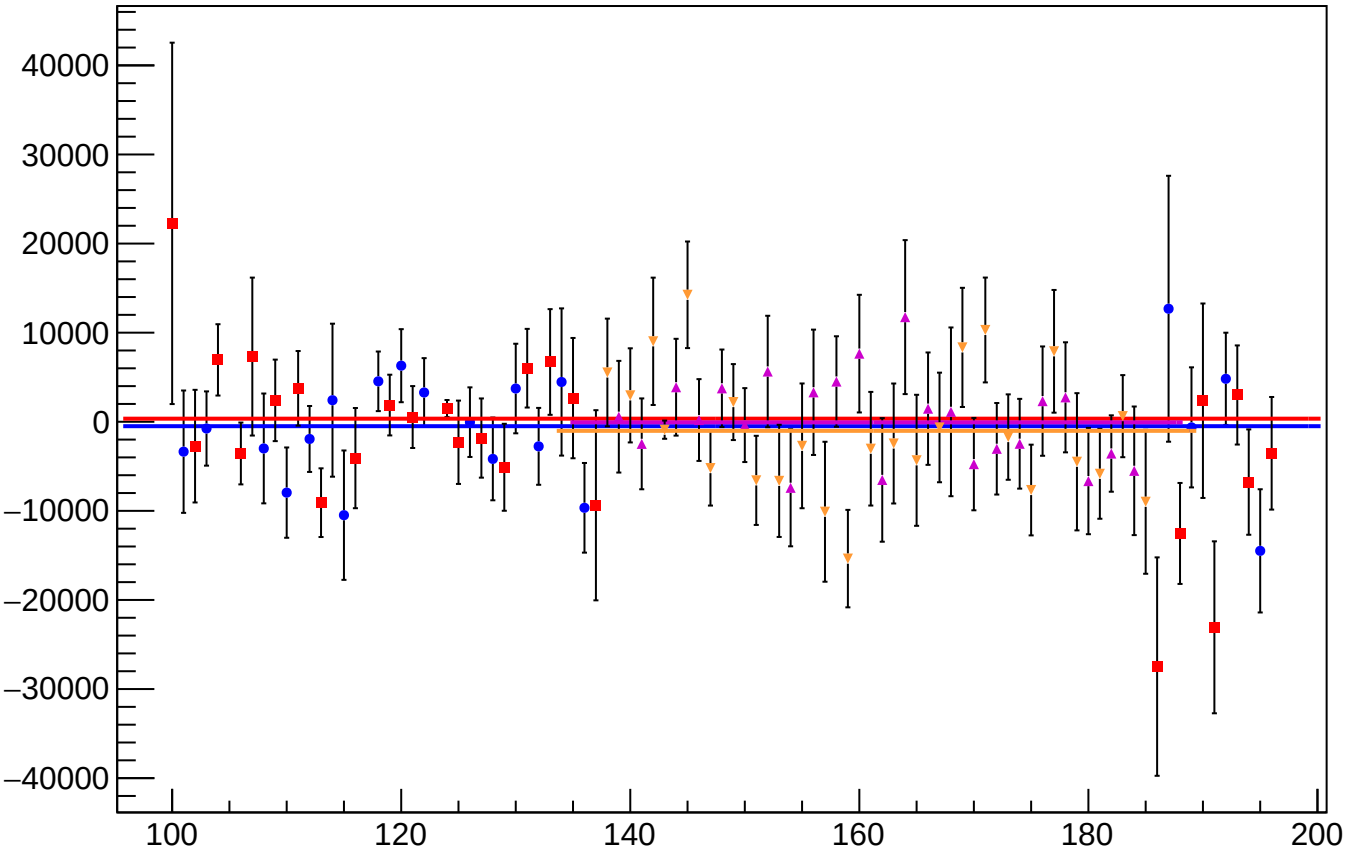
Left: 1848.390+/-0.213 $\chi^2$/NDF: 396420.2/47

Right: 1768.310+/-0.274 $\chi^2$/NDF: 1312542.8/45

In: 1813.006+/-0.243 $\chi^2$/NDF:767931.9/42

Out: 1822.906+/-0.233 $\chi^2$/NDF:993322.6/50

All: 1818.169+/-0.168 $\chi^2$/NDF: 1762117.3/93




Right In: -496.560+/-1111.288 $\chi^2$/NDF: 21.9/19

Left Out: -1018.861+/-771.816 $\chi^2$/NDF:33.7/24

Right Out: 346.738+/-699.881 $\chi^2$/NDF: 38.9/25

Left In: -62.369+/-1173.429 $\chi^2$/NDF:13.0/22

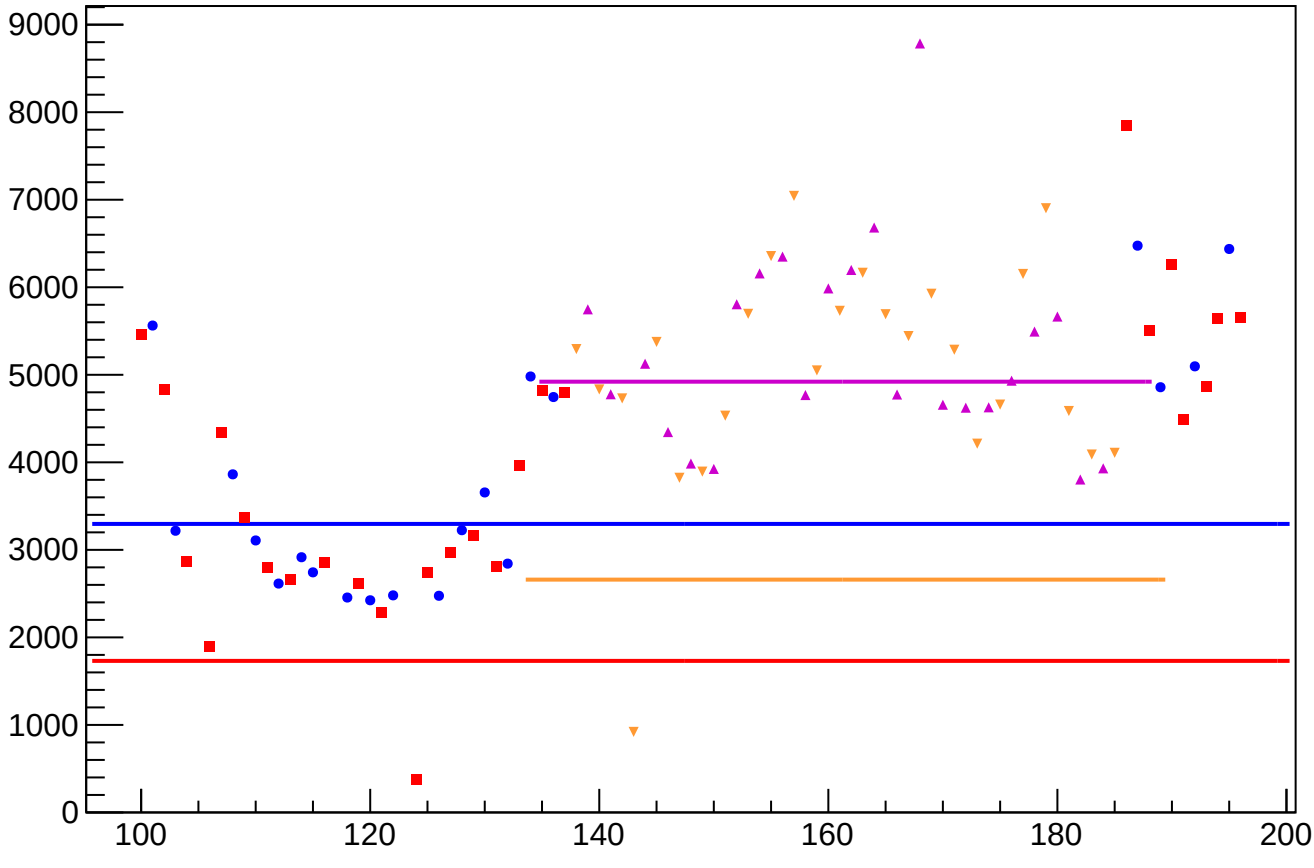
Left: -730.018+/-644.833 $\chi^2$/NDF: 47.2/47

Right: 107.245+/-592.219 $\chi^2$/NDF: 61.2/45

In: -291.265+/-806.874 $\chi^2$/NDF:35.0/42

Out: -269.472+/-518.461 $\chi^2$/NDF:74.4/50

All: -275.840+/-436.178 $\chi^2$/NDF: 109.4/93




Right In: 3296.340+/-0.786 $\chi^2$/NDF: 1851106.6/19

Left Out: 2660.009+/-0.546 $\chi^2$/NDF:14536074.6/24

Right Out: 1731.557+/-0.495 $\chi^2$/NDF: 11266859.9/25

Left In: 4921.319+/-0.830 $\chi^2$/NDF:1251123.1/22

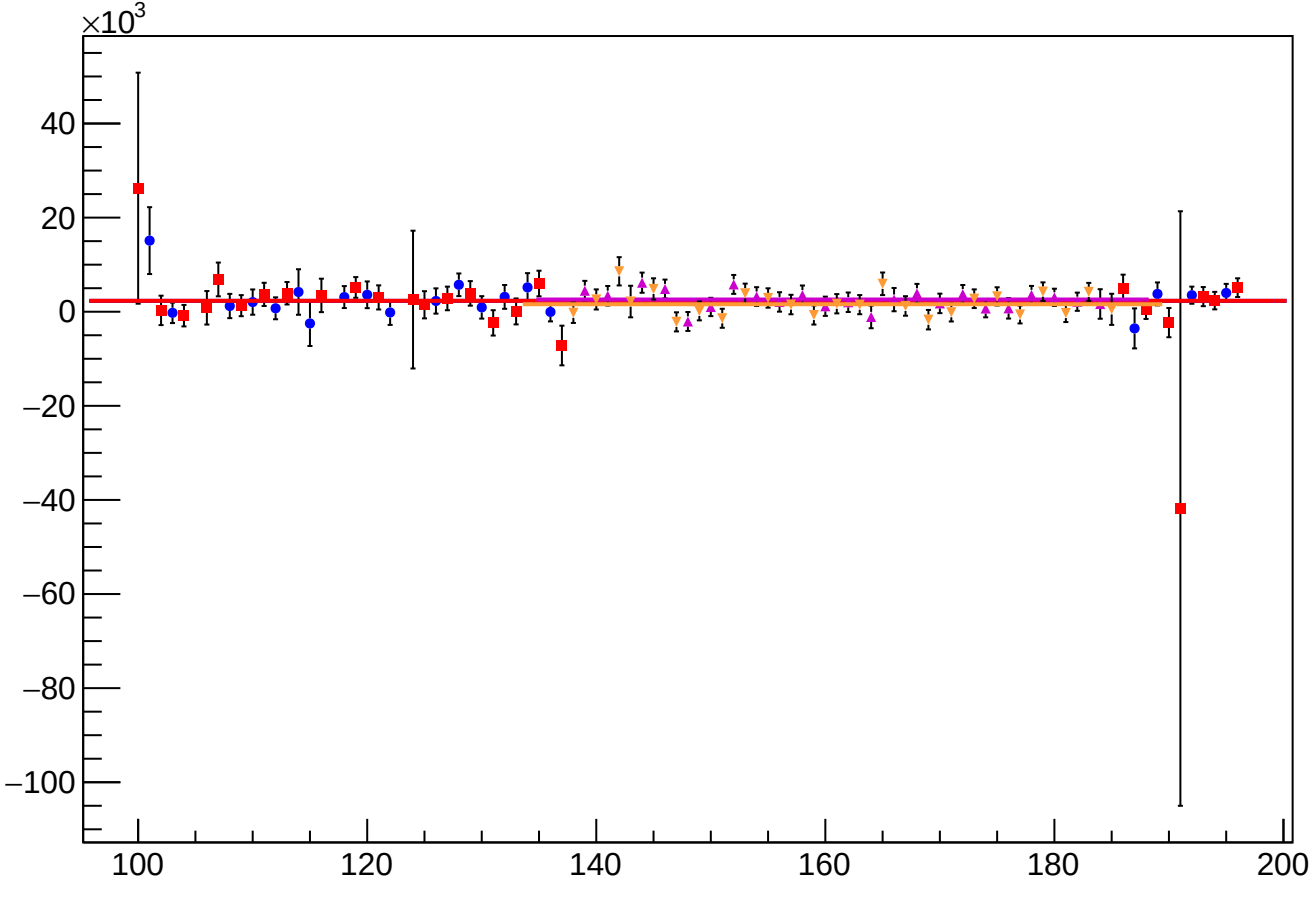
Left: 3342.883+/-0.456 $\chi^2$/NDF: 20971649.5/47

Right: 2175.947+/-0.419 $\chi^2$/NDF: 15957196.8/45

In: 4064.665+/-0.571 $\chi^2$/NDF:5124174.4/42

Out: 2150.509+/-0.367 $\chi^2$/NDF:27391138.0/50

All: 2709.873+/-0.308 $\chi^2$/NDF: 40481830.9/9




Right In: 2308.280+/-573.644 $\chi^2$/NDF: 15.8/19

Left Out: 1592.431+/-423.298 $\chi^2$/NDF:31.3/24

Right Out: 2317.225+/-528.293 $\chi^2$/NDF: 25.5/25

Left In: 2597.812+/-430.293 $\chi^2$/NDF:20.1/22

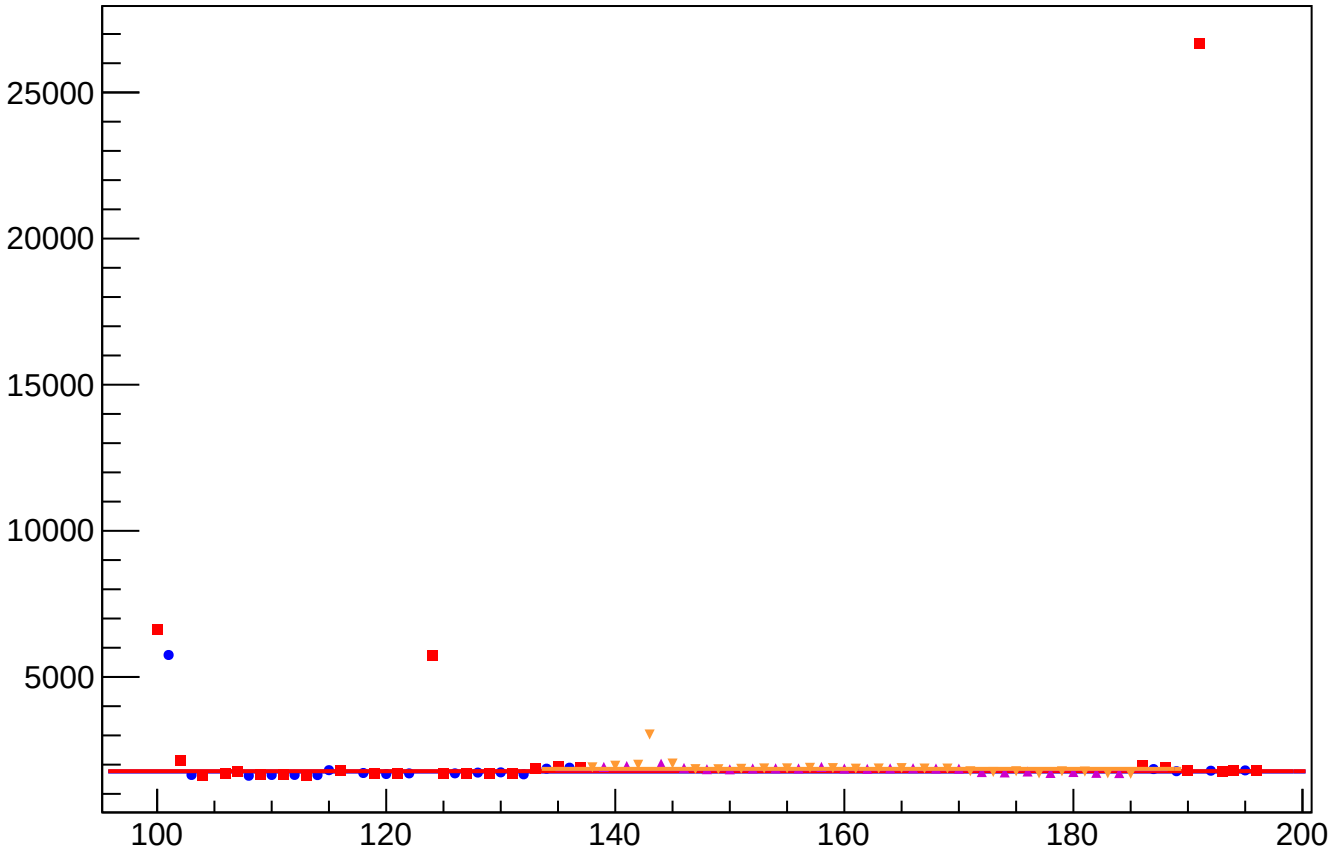
Left: 2086.883+/-301.760 $\chi^2$/NDF: 54.1/47

Right: 2313.120+/-388.605 $\chi^2$/NDF: 41.4/45

In: 2493.562+/-344.217 $\chi^2$/NDF:36.1/42

Out: 1875.819+/-330.338 $\chi^2$/NDF:57.9/50

All: 2171.985+/-238.340 $\chi^2$/NDF: 95.7/93




Right In: 1763.286+/-0.406 $\chi^2$/NDF: 673468.2/19

Left Out: 1855.560+/-0.299 $\chi^2$/NDF:324267.7/24

Right Out: 1777.054+/-0.373 $\chi^2$/NDF: 630102.7/25

Left In: 1840.981+/-0.304 $\chi^2$/NDF:70985.8/22

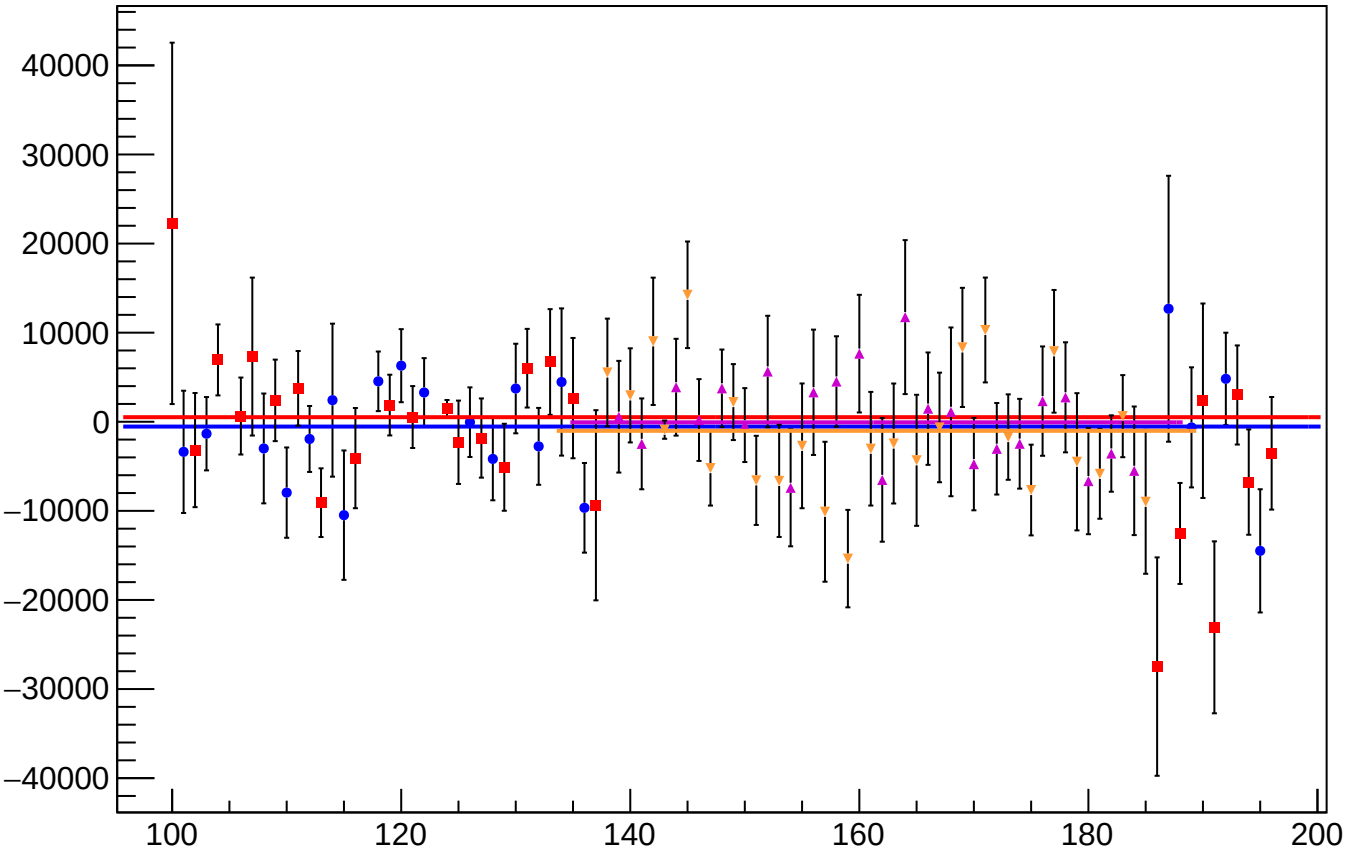
Left: 1848.390+/-0.213 $\chi^2$/NDF: 396420.2/47

Right: 1770.753+/-0.274 $\chi^2$/NDF: 1304195.7/45

In: 1813.006+/-0.243 $\chi^2$/NDF:767932.3/42

Out: 1824.774+/-0.233 $\chi^2$/NDF:981347.2/50

All: 1819.137+/-0.168 $\chi^2$/NDF: 1750497.4/93




Right In: -540.019+/-1110.264 $\chi^2$/NDF: 21.9/19

Left Out: -1018.712+/-771.798 $\chi^2$/NDF:33.7/24

Right Out: 513.975+/-705.008 $\chi^2$/NDF: 37.7/25

Left In: -62.286+/-1173.429 $\chi^2$/NDF:13.0/22

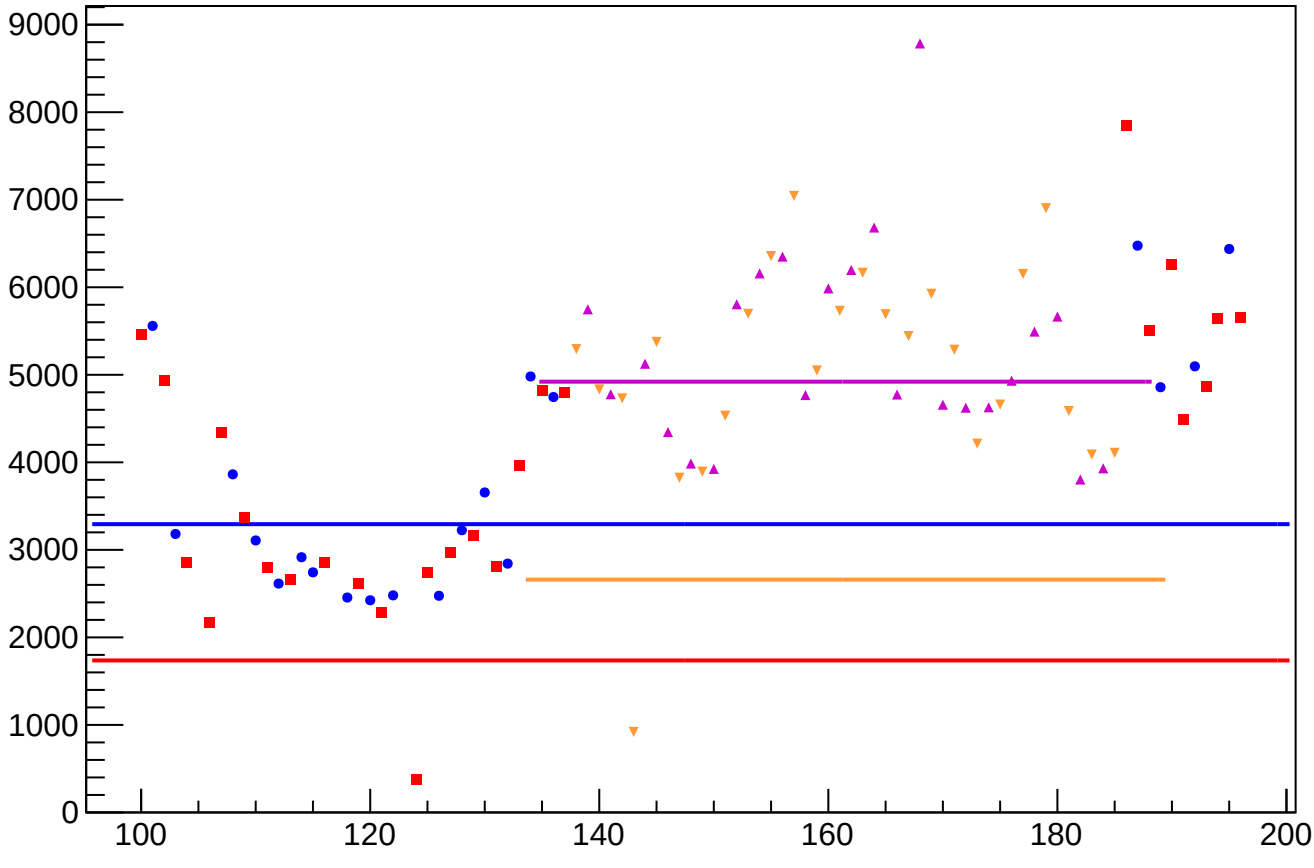
Left: -729.898+/-644.823 $\chi^2$/NDF: 47.2/47

Right: 211.110+/-595.158 $\chi^2$/NDF: 60.3/45

In: -314.356+/-806.481 $\chi^2$/NDF:35.0/42

Out: -183.192+/-520.530 $\chi^2$/NDF:73.6/50

All: -221.764+/-437.345 $\chi^2$/NDF: 108.6/93




Right In: 3293.507+/-0.785 $\chi^2$/NDF: 1851495.6/19

Left Out: 2659.907+/-0.546 $\chi^2$/NDF:14536813.3/24

Right Out: 1736.647+/-0.499 $\chi^2$/NDF: 11298741.8/25

Left In: 4921.316+/-0.830 $\chi^2$/NDF:1251131.6/22

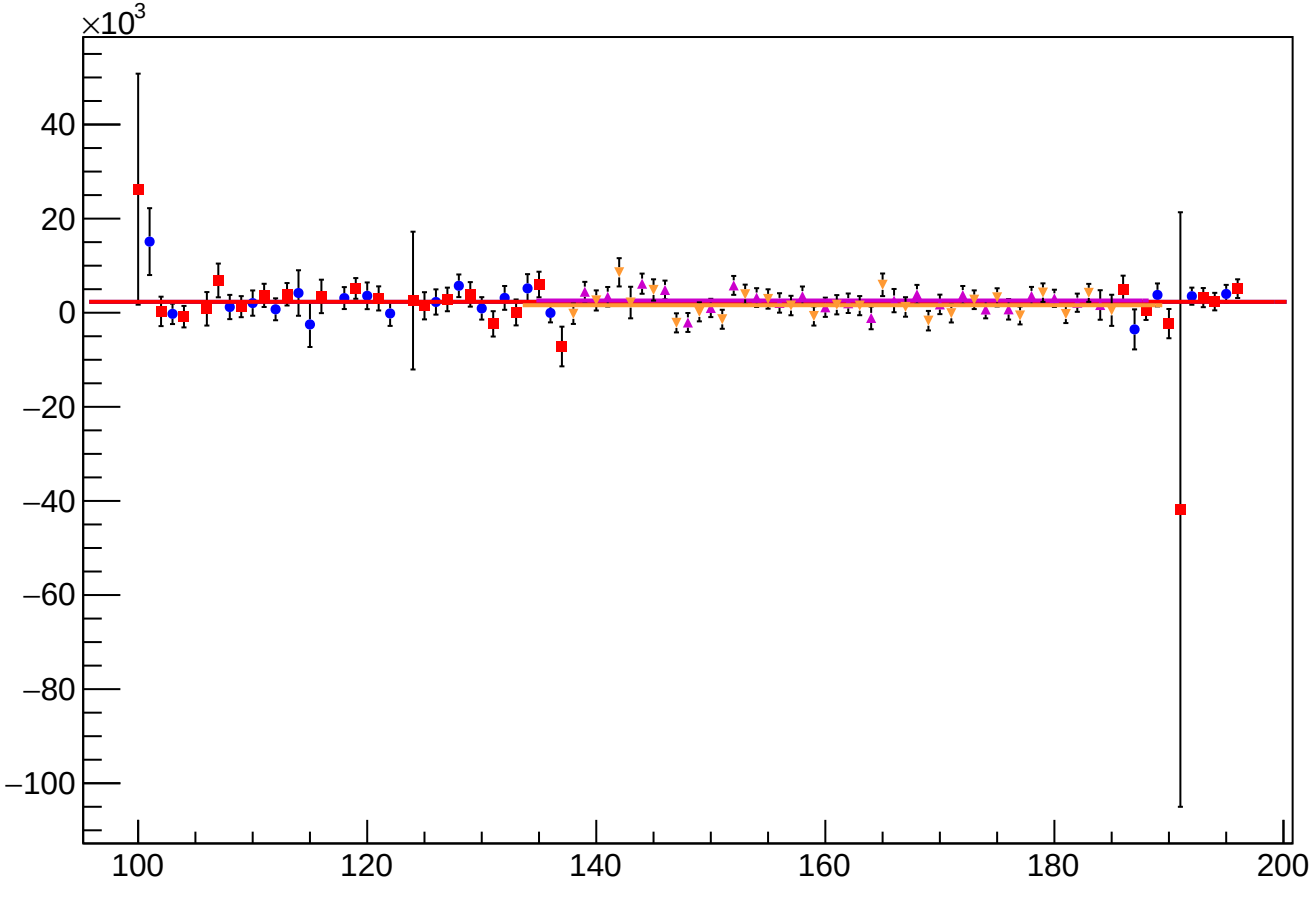
Left: 3342.790+/-0.456 $\chi^2$/NDF: 20972927.8/47

Right: 2184.011+/-0.421 $\chi^2$/NDF: 15952784.9/45

In: 4062.422+/-0.570 $\chi^2$/NDF:5133389.4/42

Out: 2156.606+/-0.368 $\chi^2$/NDF:27395730.2/50

All: 2717.062+/-0.309 $\chi^2$/NDF: 40413379.8/9




Right In: 2308.280+/-573.644 $\chi^2$/NDF: 15.8/19

Left Out: 1592.431+/-423.298 $\chi^2$/NDF:31.3/24

Right Out: 2317.225+/-528.293 $\chi^2$/NDF: 25.5/25

Left In: 2597.812+/-430.293 $\chi^2$/NDF:20.1/22

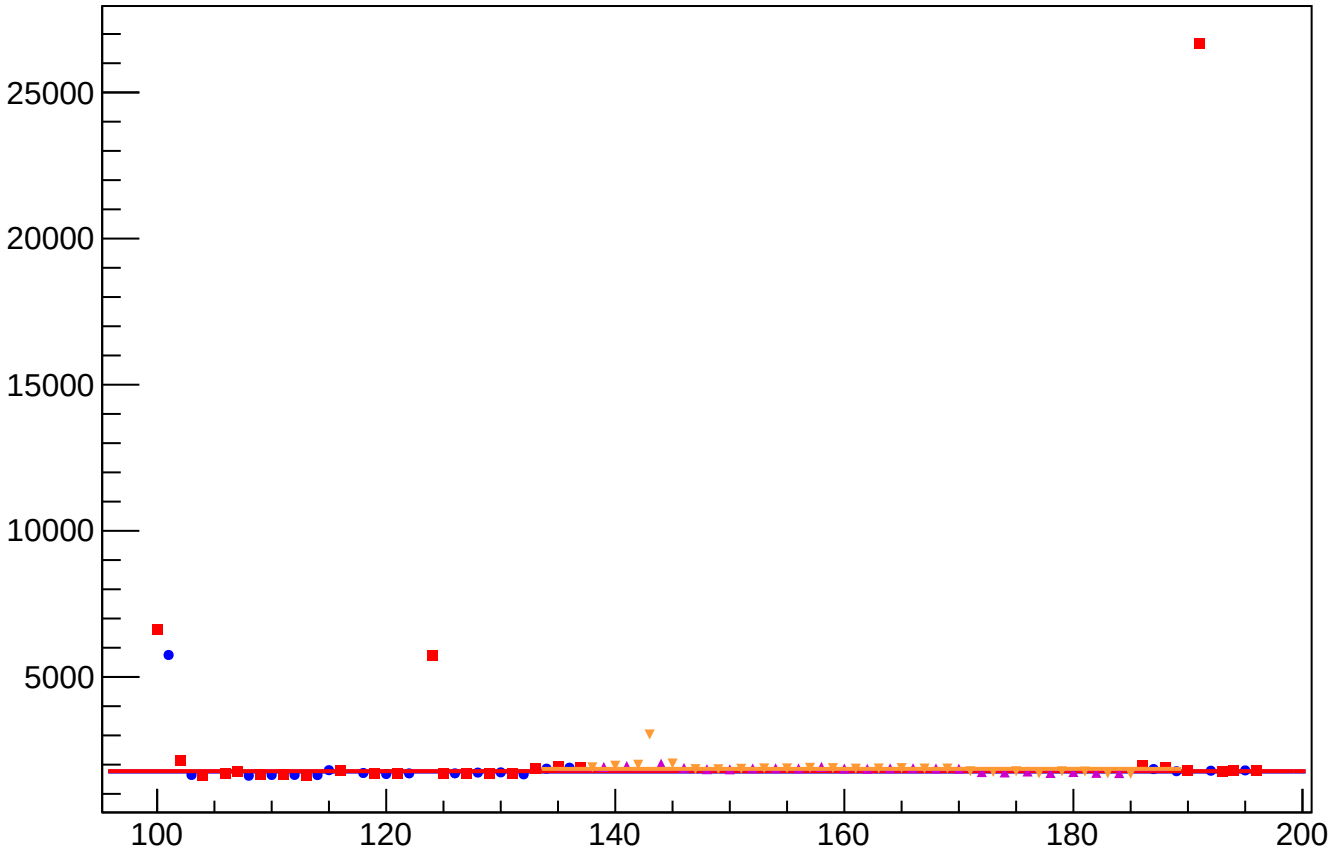
Left: 2086.883+/-301.760 $\chi^2$/NDF: 54.1/47

Right: 2313.120+/-388.605 $\chi^2$/NDF: 41.4/45

In: 2493.562+/-344.217 $\chi^2$/NDF:36.1/42

Out: 1875.819+/-330.338 $\chi^2$/NDF:57.9/50

All: 2171.985+/-238.340 $\chi^2$/NDF: 95.7/93




Right In: 1763.286+/-0.406 $\chi^2$/NDF: 673468.2/19

Left Out: 1855.560+/-0.299 $\chi^2$/NDF:324267.7/24

Right Out: 1777.054+/-0.373 $\chi^2$/NDF: 630102.7/25

Left In: 1840.981+/-0.304 $\chi^2$/NDF:70985.8/22

Left: 1848.390+/-0.213 $\chi^2$/NDF: 396420.2/47

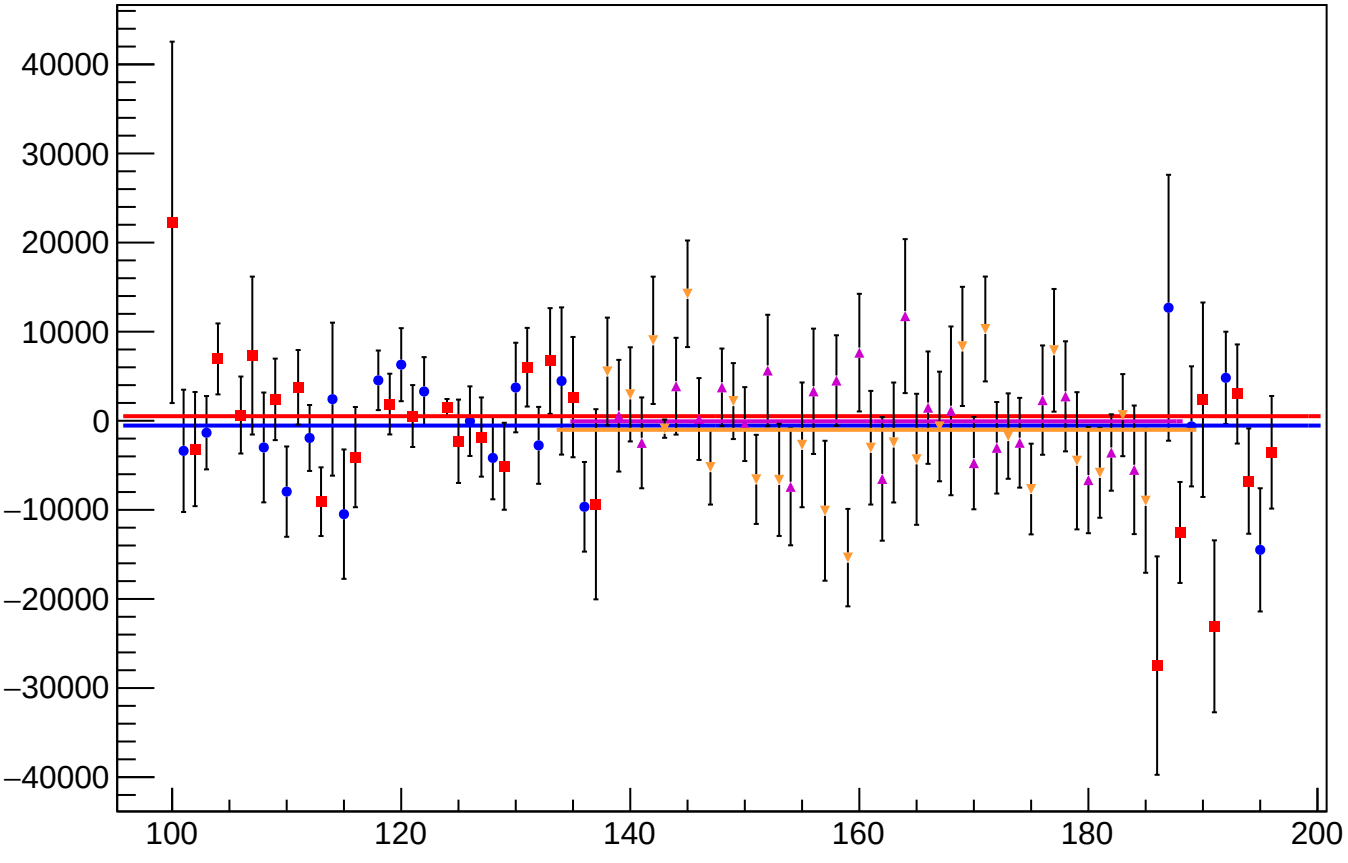
Right: 1770.753+/-0.274 $\chi^2$/NDF: 1304195.7/45

In: 1813.006+/-0.243 $\chi^2$/NDF:767932.3/42

Out: 1824.774+/-0.233 $\chi^2$/NDF:981347.2/50

All: 1819.137+/-0.168 $\chi^2$/NDF: 1750497.4/93

asym_atr1l2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -540.019+/-1110.264 $\chi^2$/NDF: 21.9/19

Left Out: -1018.712+/-771.798 $\chi^2$/NDF:33.7/24

Right Out: 513.975+/-705.008 $\chi^2$/NDF: 37.7/25

Left In: -62.286+/-1173.429 $\chi^2$/NDF:13.0/22

Left: -729.898+/-644.823 $\chi^2$/NDF: 47.2/47

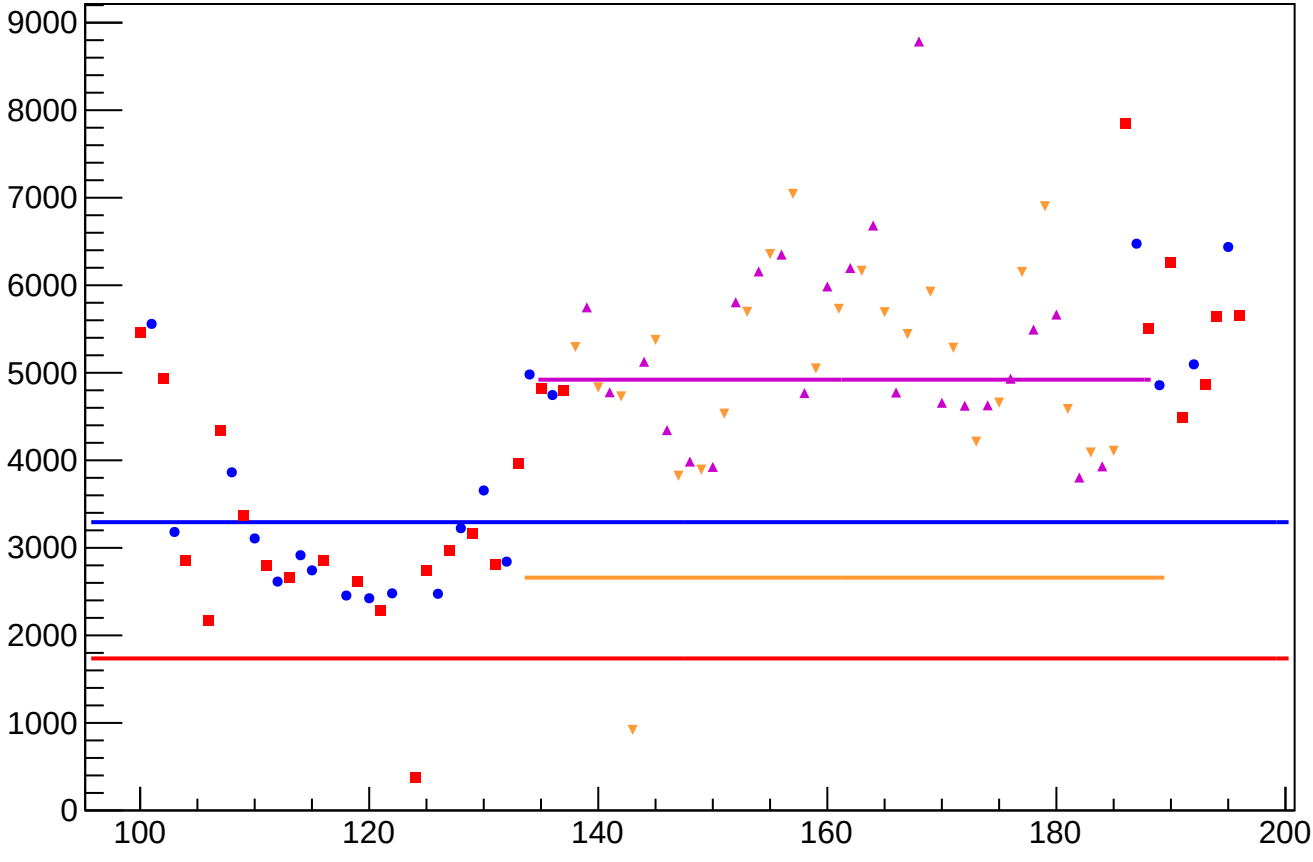
Right: 211.110+/-595.158 $\chi^2$/NDF: 60.3/45

In: -314.356+/-806.481 $\chi^2$/NDF:35.0/42

Out: -183.192+/-520.530 $\chi^2$/NDF:73.6/50

All: -221.764+/-437.345 $\chi^2$/NDF: 108.6/93

asym_atr1l2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3293.507+/-0.785 $\chi^2$/NDF: 1851495.6/19

Left Out: 2659.907+/-0.546 $\chi^2$/NDF:14536813.3/24

Right Out: 1736.647+/-0.499 $\chi^2$/NDF: 11298741.8/25

Left In: 4921.316+/-0.830 $\chi^2$/NDF:1251131.6/22

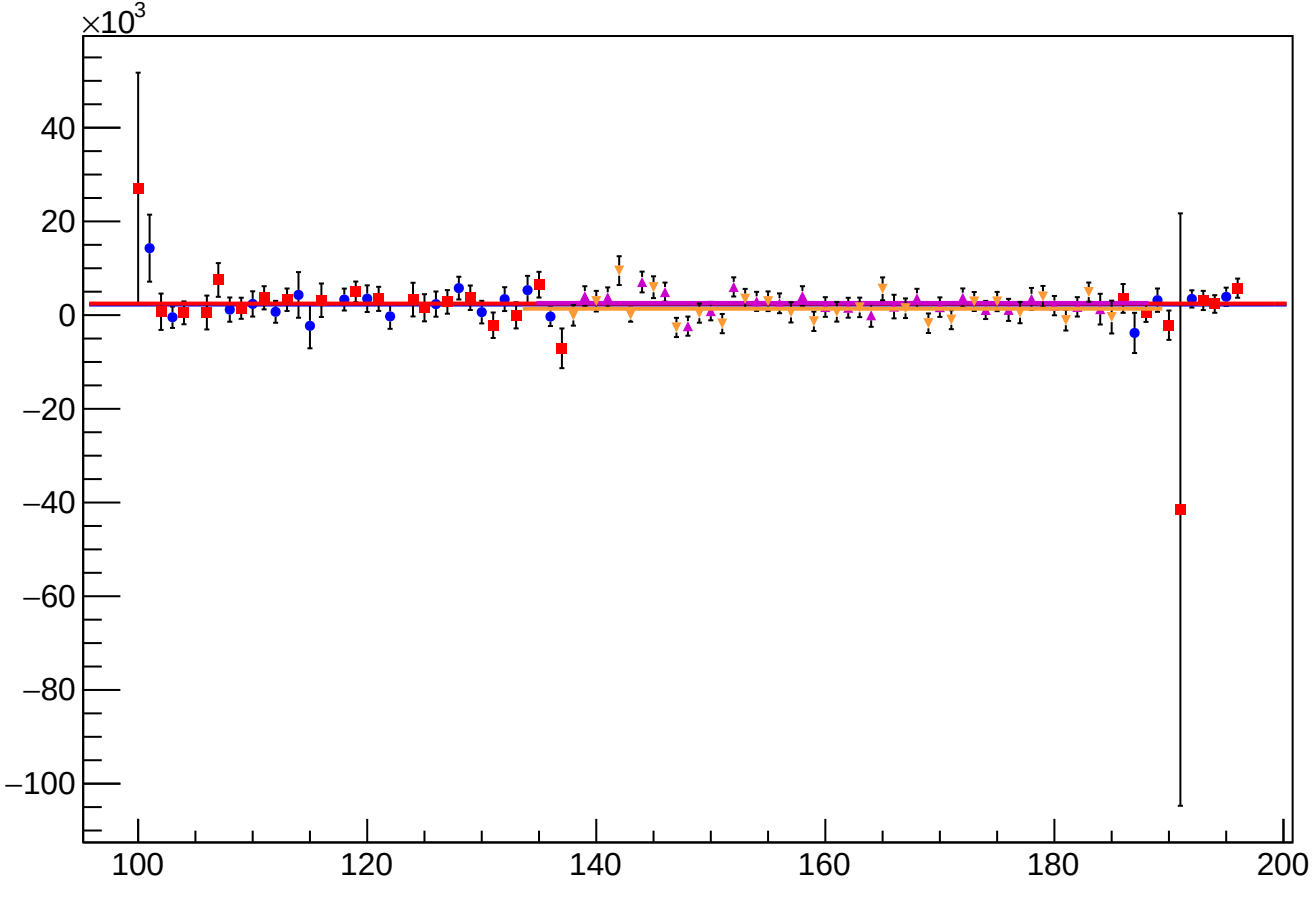
Left: 3342.790+/-0.456 $\chi^2$/NDF: 20972927.8/47

Right: 2184.011+/-0.421 $\chi^2$/NDF: 15952784.9/45

In: 4062.422+/-0.570 $\chi^2$/NDF:5133389.4/42

Out: 2156.606+/-0.368 $\chi^2$/NDF:27395730.2/50

All: 2717.062+/-0.309 $\chi^2$/NDF: 40413379.8/9




Right In: 2254.005+/-579.827 $\chi^2$/NDF: 15.9/19

Left Out: 1363.887+/-427.332 $\chi^2$/NDF:36.1/24

Right Out: 2462.505+/-531.125 $\chi^2$/NDF: 24.0/25

Left In: 2602.835+/-446.741 $\chi^2$/NDF:20.0/22

Left: 1955.864+/-308.803 $\chi^2$/NDF: 60.2/47

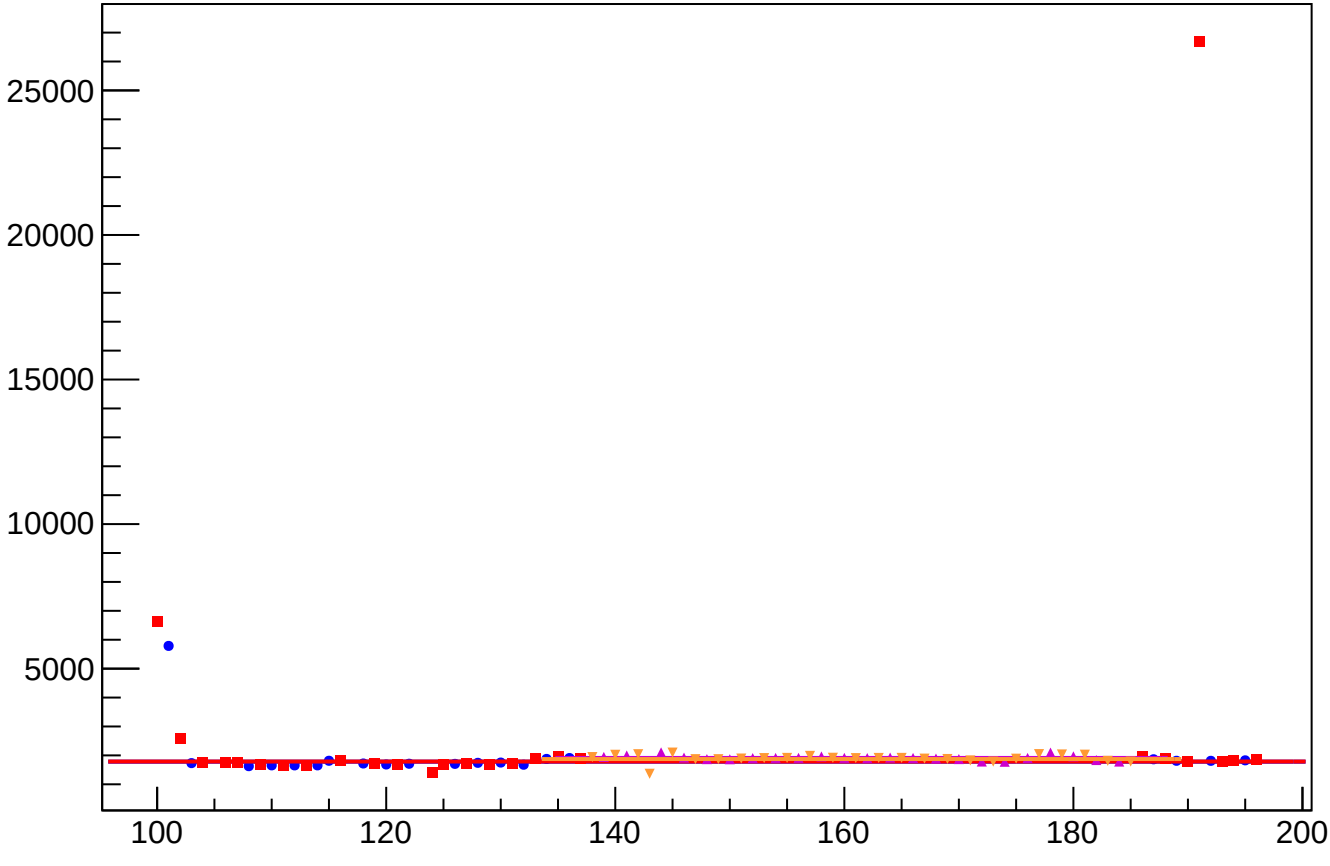
Right: 2367.378+/-391.650 $\chi^2$/NDF: 39.9/45

In: 2472.896+/-353.885 $\chi^2$/NDF:36.1/42

Out: 1795.604+/-332.946 $\chi^2$/NDF:62.7/50

All: 2113.620+/-242.493 $\chi^2$/NDF: 100.8/93

# dit_asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 1782.292+/-0.410 $\chi^2$/NDF: 670905.0/19

Left Out: 1873.177+/-0.302 $\chi^2$/NDF:309733.7/24

Right Out: 1787.638+/-0.375 $\chi^2$/NDF: 554082.7/25

Left In: 1911.423+/-0.316 $\chi^2$/NDF:59139.8/22

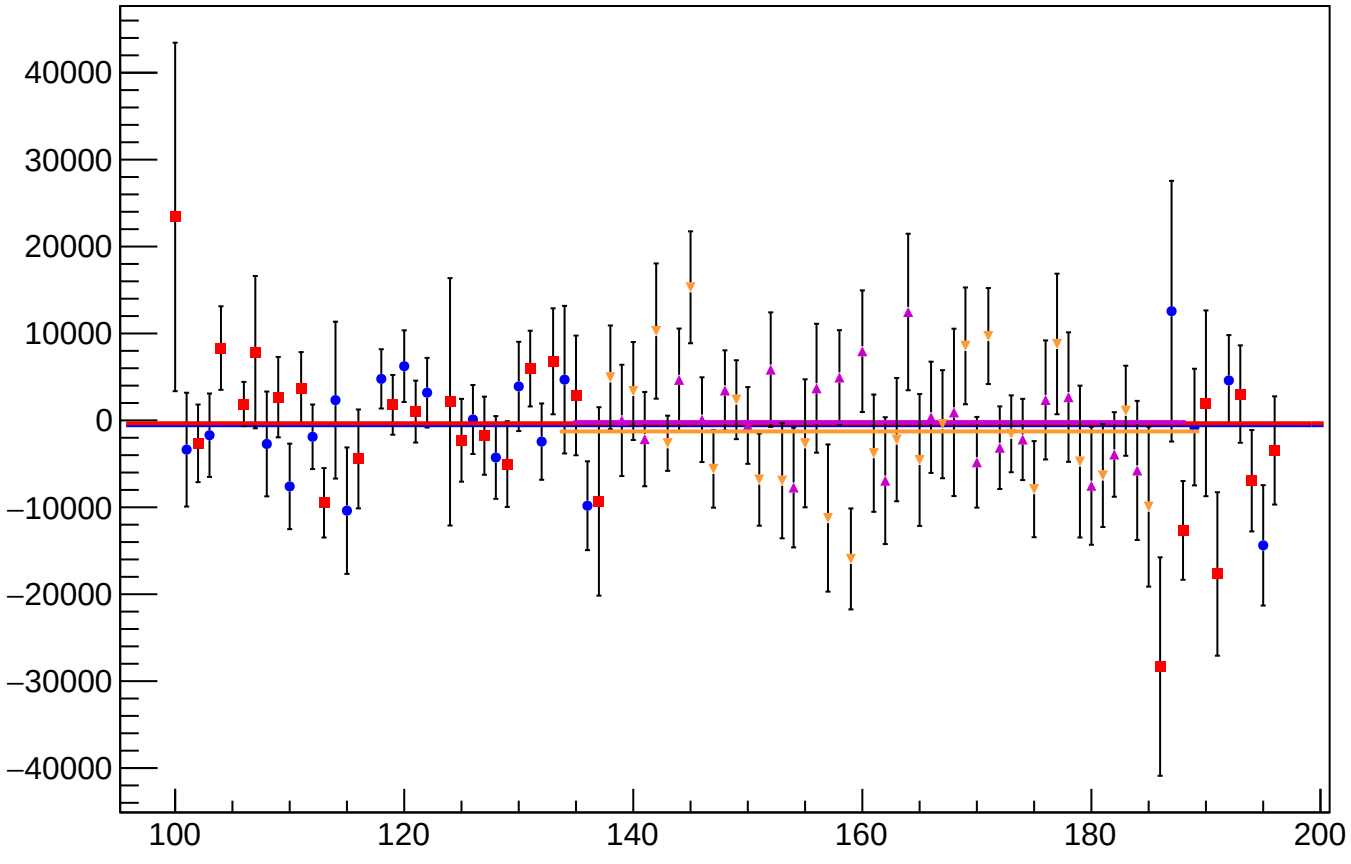
Left: 1891.452+/-0.218 $\chi^2$/NDF: 376528.1/47

Right: 1785.204+/-0.277 $\chi^2$/NDF: 1225080.3/45

In: 1863.322+/-0.250 $\chi^2$/NDF:792290.4/42

Out: 1839.493+/-0.235 $\chi^2$/NDF:895373.4/50

All: 1850.673+/-0.171 $\chi^2$/NDF: 1692477.2/93




Right In: -553.269+/-1131.965 $\chi^2$/NDF: 21.5/19

Left Out: -1269.760+/-1156.132 $\chi^2$/NDF:33.4/24

Right Out: -329.772+/-990.772 $\chi^2$/NDF: 34.8/25

Left In: -196.917+/-1234.538 $\chi^2$/NDF:12.7/22

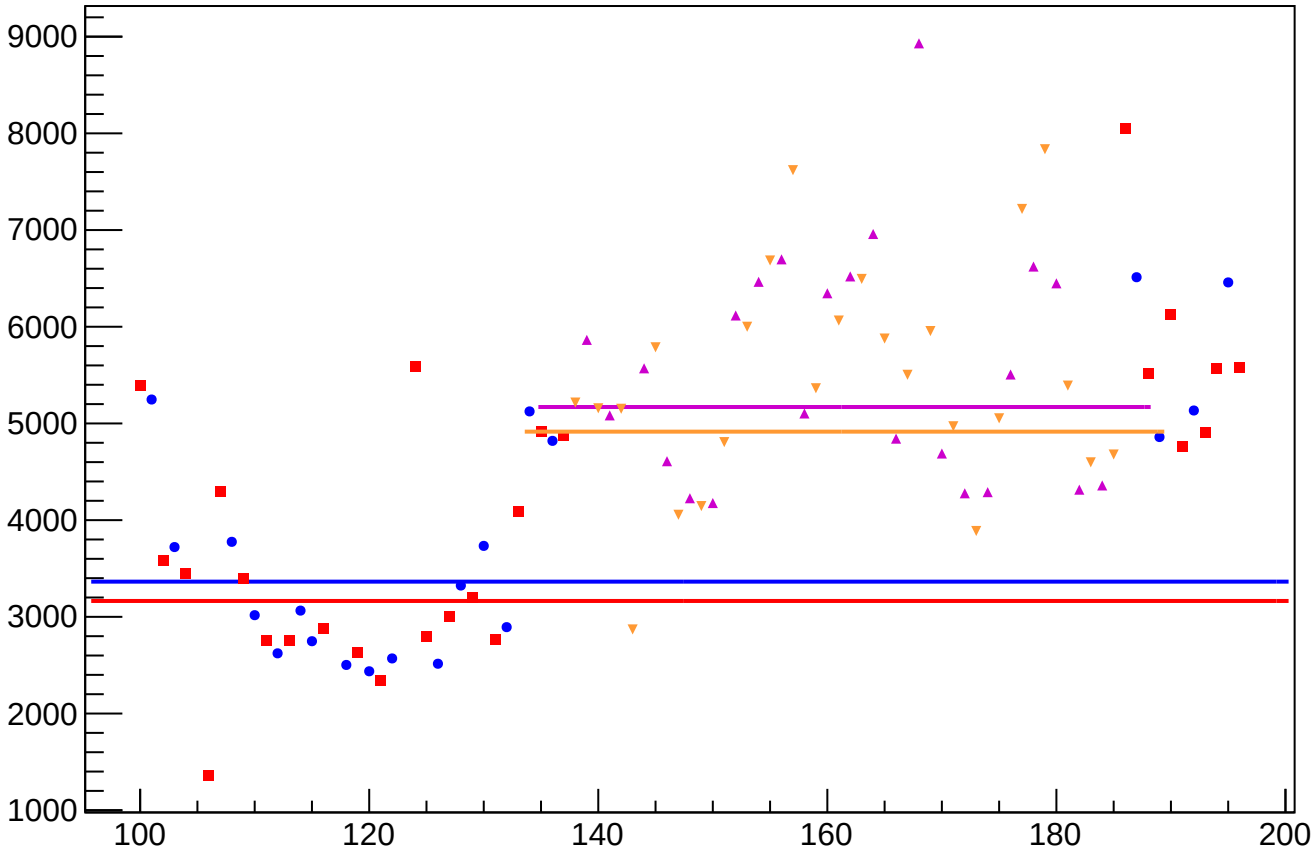
Left: -768.486+/-843.867 $\chi^2$/NDF: 46.5/47

Right: -426.720+/-745.533 $\chi^2$/NDF: 56.3/45

In: -390.510+/-834.330 $\chi^2$/NDF:34.2/42

Out: -727.793+/-752.314 $\chi^2$/NDF:68.6/50

All: -576.540+/-558.719 $\chi^2$/NDF: 102.9/93




Right In: 3364.023+/-0.800 $\chi^2$/NDF: 1789873.4/19

Left Out: 4915.244+/-0.818 $\chi^2$/NDF:2166229.1/24

Right Out: 3164.179+/-0.701 $\chi^2$/NDF: 3297214.0/25

Left In: 5170.028+/-0.873 $\chi^2$/NDF:1348711.3/22

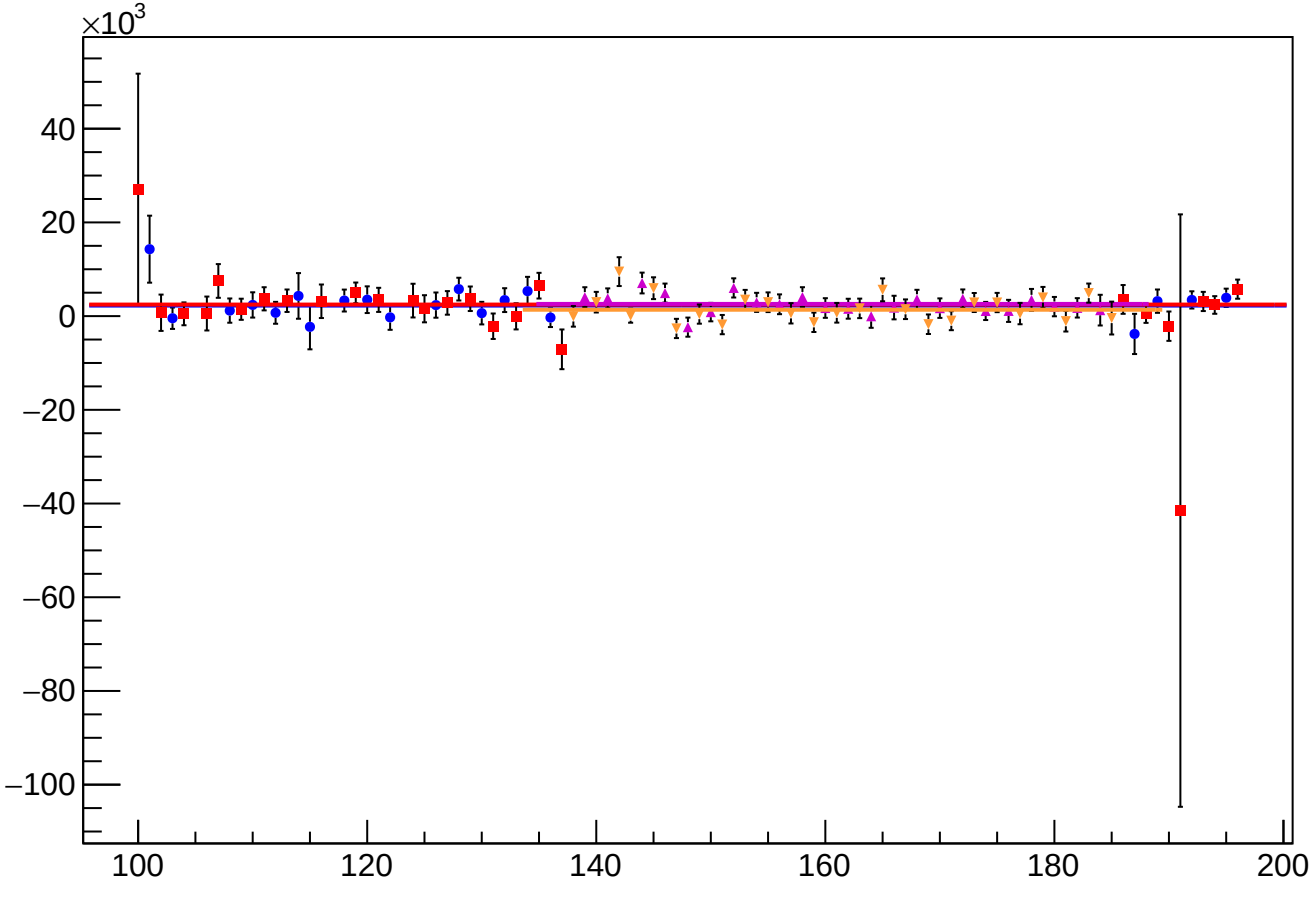
Left: 5034.289+/-0.597 $\chi^2$/NDF: 3560323.8/47

Right: 3250.867+/-0.527 $\chi^2$/NDF: 5122383.9/45

In: 4188.893+/-0.590 $\chi^2$/NDF:5463827.4/42

Out: 3905.636+/-0.532 $\chi^2$/NDF:8108714.8/50

All: 4032.662+/-0.395 $\chi^2$/NDF: 13699688.5/9




Right In: 2254.003+/-579.827 $\chi^2$/NDF: 15.9/19

Left Out: 1363.884+/-427.333 $\chi^2$/NDF:36.1/24

Right Out: 2462.505+/-531.125 $\chi^2$/NDF: 24.0/25

Left In: 2602.834+/-446.742 $\chi^2$/NDF:20.0/22

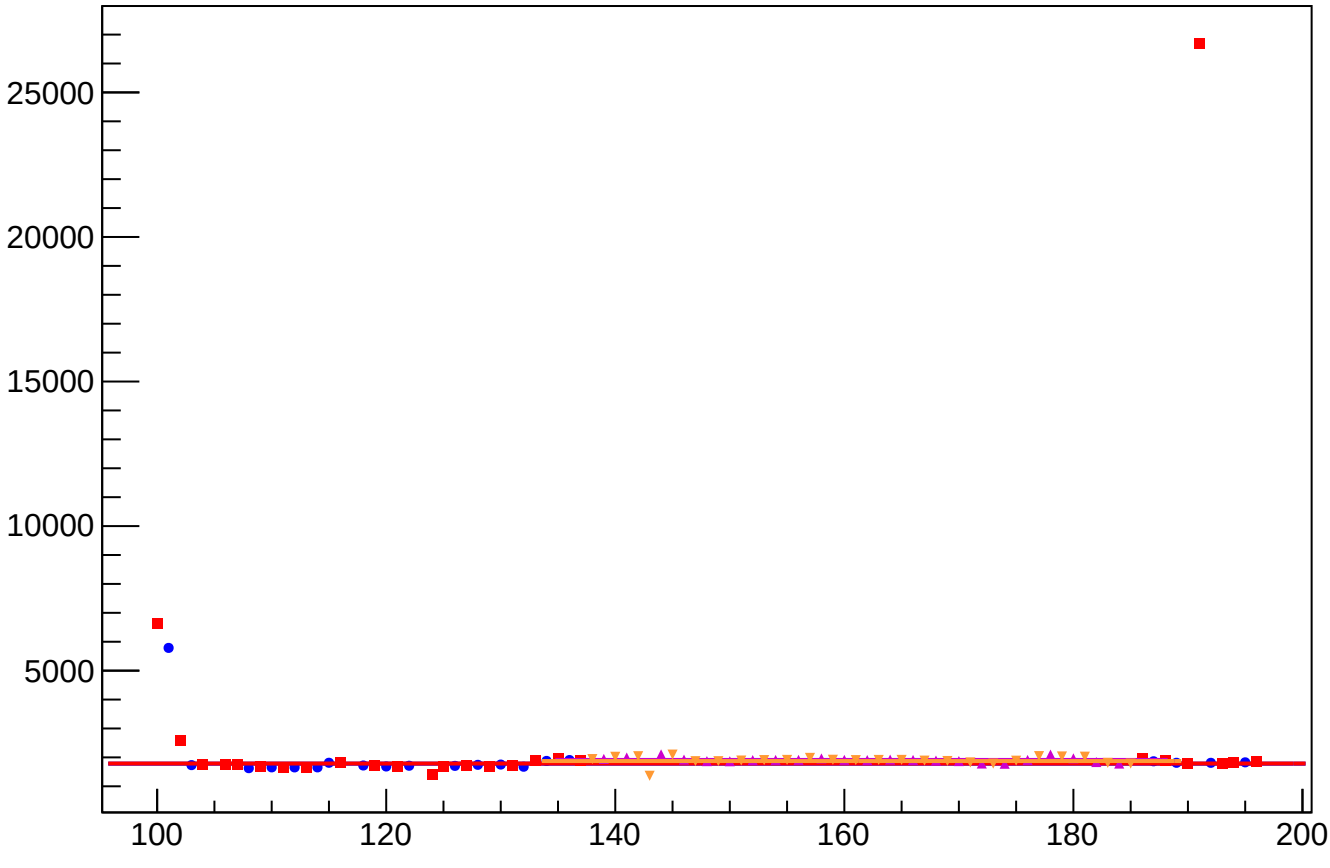
Left: 1955.861+/-308.803 $\chi^2$/NDF: 60.2/47

Right: 2367.377+/-391.650 $\chi^2$/NDF: 39.9/45

In: 2472.894+/-353.886 $\chi^2$/NDF:36.1/42

Out: 1795.602+/-332.946 $\chi^2$/NDF:62.7/50

All: 2113.618+/-242.493 $\chi^2$/NDF: 100.8/93




Right In: 1782.292+/-0.410 $\chi^2$/NDF: 670905.0/19

Left Out: 1873.178+/-0.302 $\chi^2$/NDF:309737.2/24

Right Out: 1787.638+/-0.375 $\chi^2$/NDF: 554082.7/25

Left In: 1911.425+/-0.316 $\chi^2$/NDF:59142.0/22

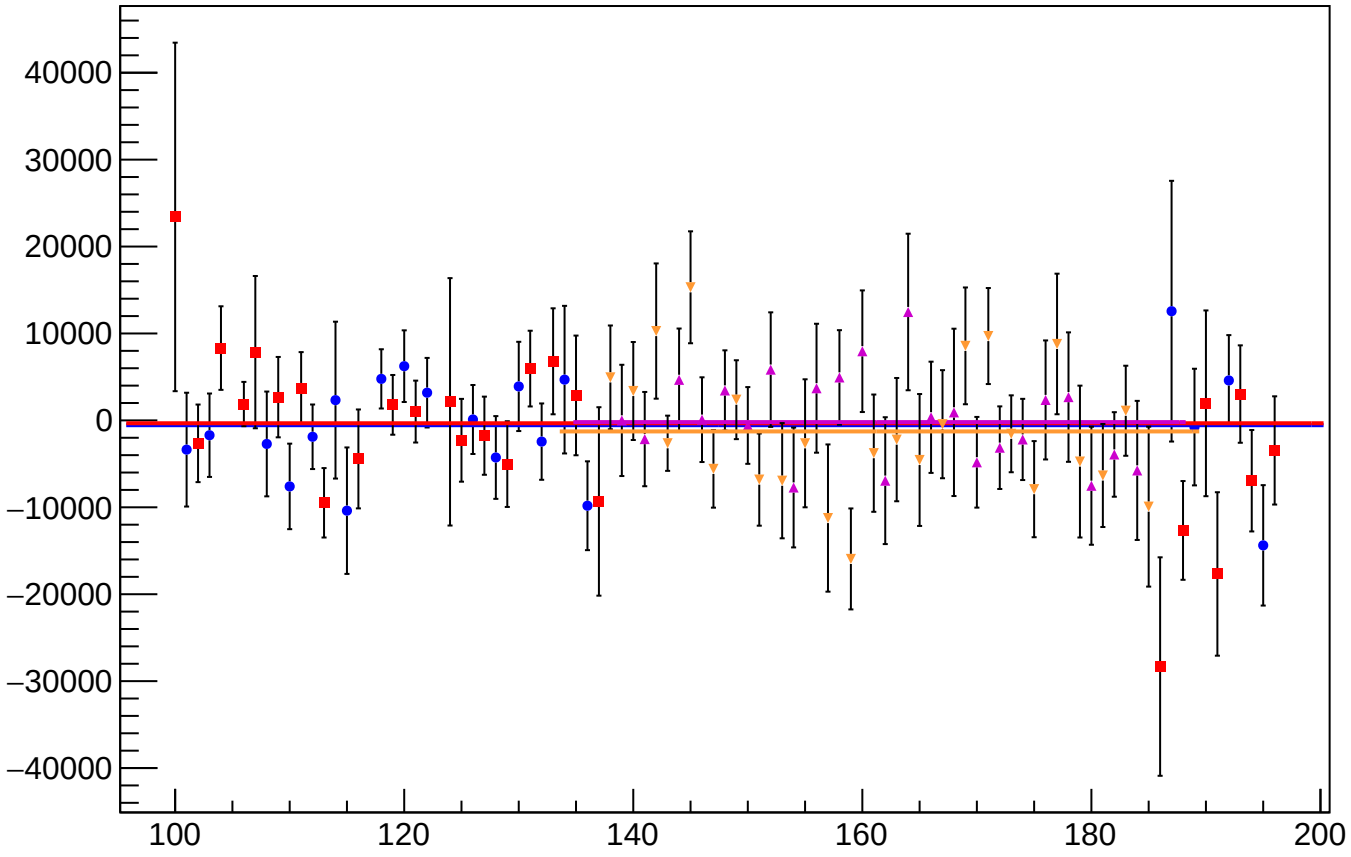
Left: 1891.453+/-0.218 $\chi^2$/NDF: 376533.8/47

Right: 1785.204+/-0.277 $\chi^2$/NDF: 1225080.2/45

In: 1863.322+/-0.250 $\chi^2$/NDF:792293.7/42

Out: 1839.493+/-0.235 $\chi^2$/NDF:895377.6/50

All: 1850.674+/-0.171 $\chi^2$/NDF: 1692484.7/93




Right In: -553.263+/-1131.962 $\chi^2$/NDF: 21.5/19

Left Out: -1269.765+/-1156.133 $\chi^2$/NDF:33.4/24

Right Out: -329.765+/-990.769 $\chi^2$/NDF: 34.8/25

Left In: -196.918+/-1234.540 $\chi^2$/NDF:12.7/22

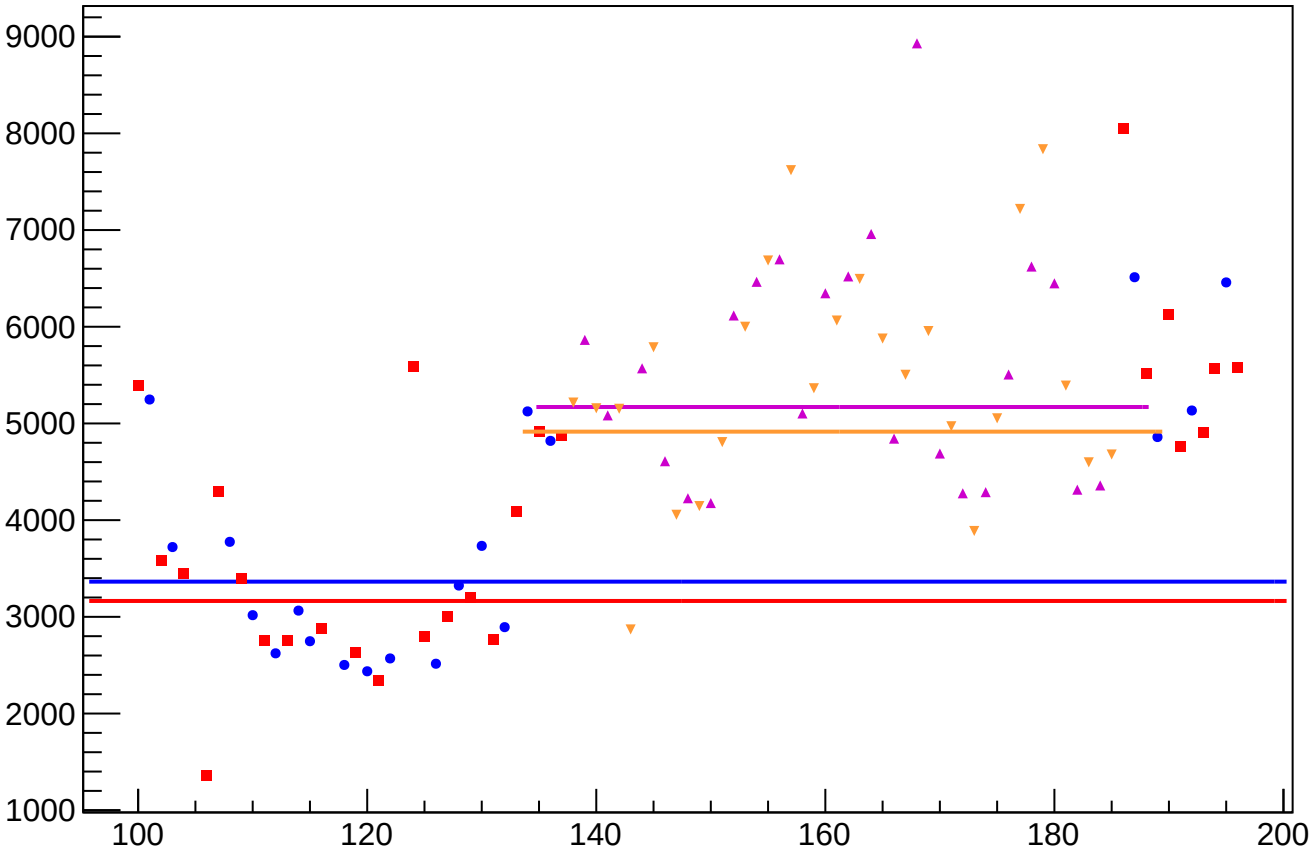
Left: -768.490+/-843.868 $\chi^2$/NDF: 46.5/47

Right: -426.713+/-745.531 $\chi^2$/NDF: 56.3/45

In: -390.508+/-834.329 $\chi^2$/NDF:34.2/42

Out: -727.789+/-752.313 $\chi^2$/NDF:68.6/50

All: -576.537+/-558.718 $\chi^2$/NDF: 102.9/93




Right In: 3364.012+/-0.800 $\chi^2$/NDF: 1789897.0/19

Left Out: 4915.251+/-0.818 $\chi^2$/NDF:2166236.2/24

Right Out: 3164.166+/-0.701 $\chi^2$/NDF: 3297257.1/25

Left In: 5170.035+/-0.873 $\chi^2$/NDF:1348713.2/22

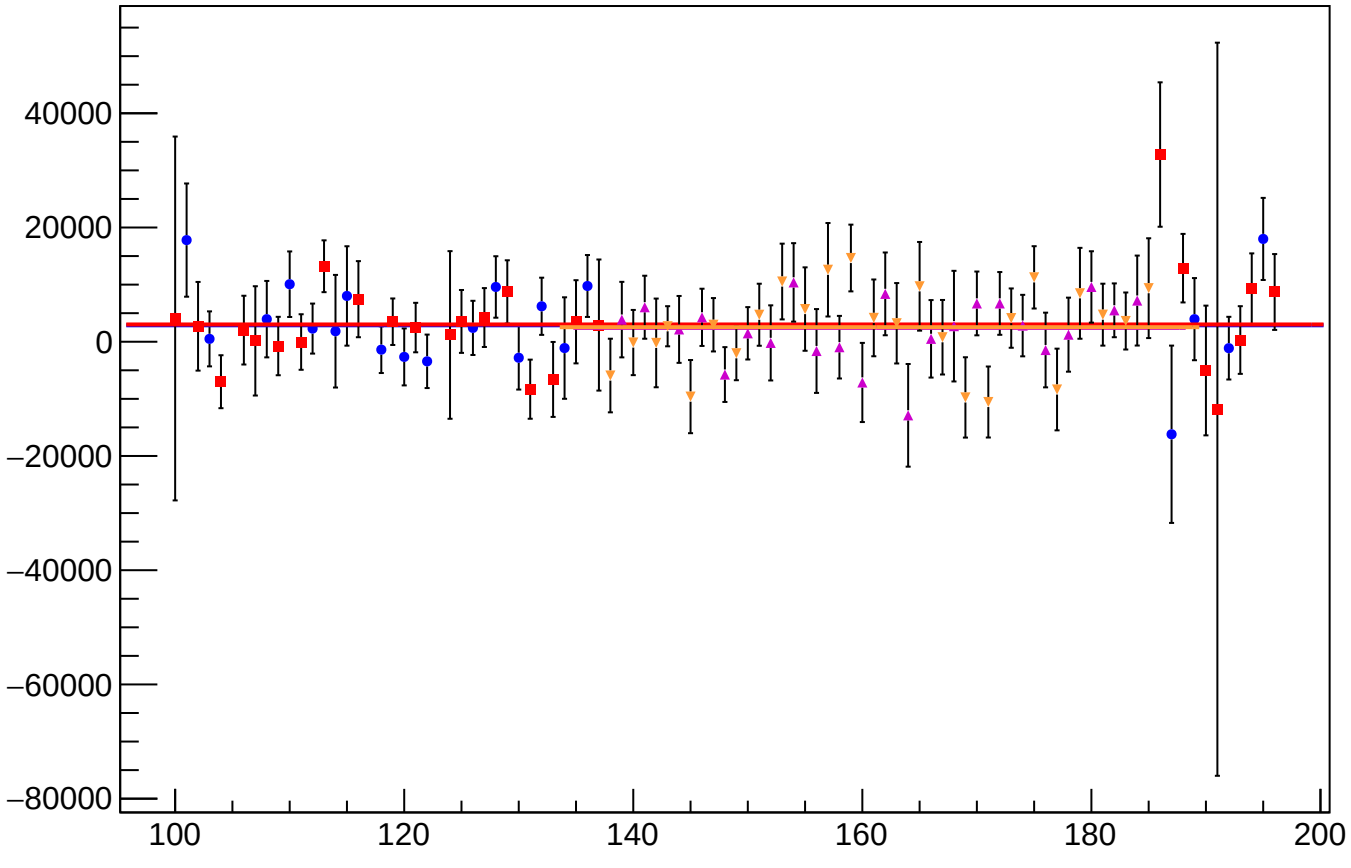
Left: 5034.296+/-0.597 $\chi^2$/NDF: 3560333.0/47

Right: 3250.855+/-0.527 $\chi^2$/NDF: 5122451.6/45

In: 4188.887+/-0.590 $\chi^2$/NDF:5463903.3/42

Out: 3905.627+/-0.532 $\chi^2$/NDF:8108827.5/50

All: 4032.654+/-0.395 $\chi^2$/NDF: 13699879.7/9




Right In: 2878.753+/-1289.680 $\chi^2$/NDF: 20.0/19

Left Out: 2547.072+/-1187.668 $\chi^2$/NDF:29.1/24

Right Out: 3023.977+/-1210.973 $\chi^2$/NDF: 30.1/25

Left In: 2423.016+/-1259.653 $\chi^2$/NDF:15.0/22

Left: 2488.690+/-864.136 $\chi^2$/NDF: 44.1/47

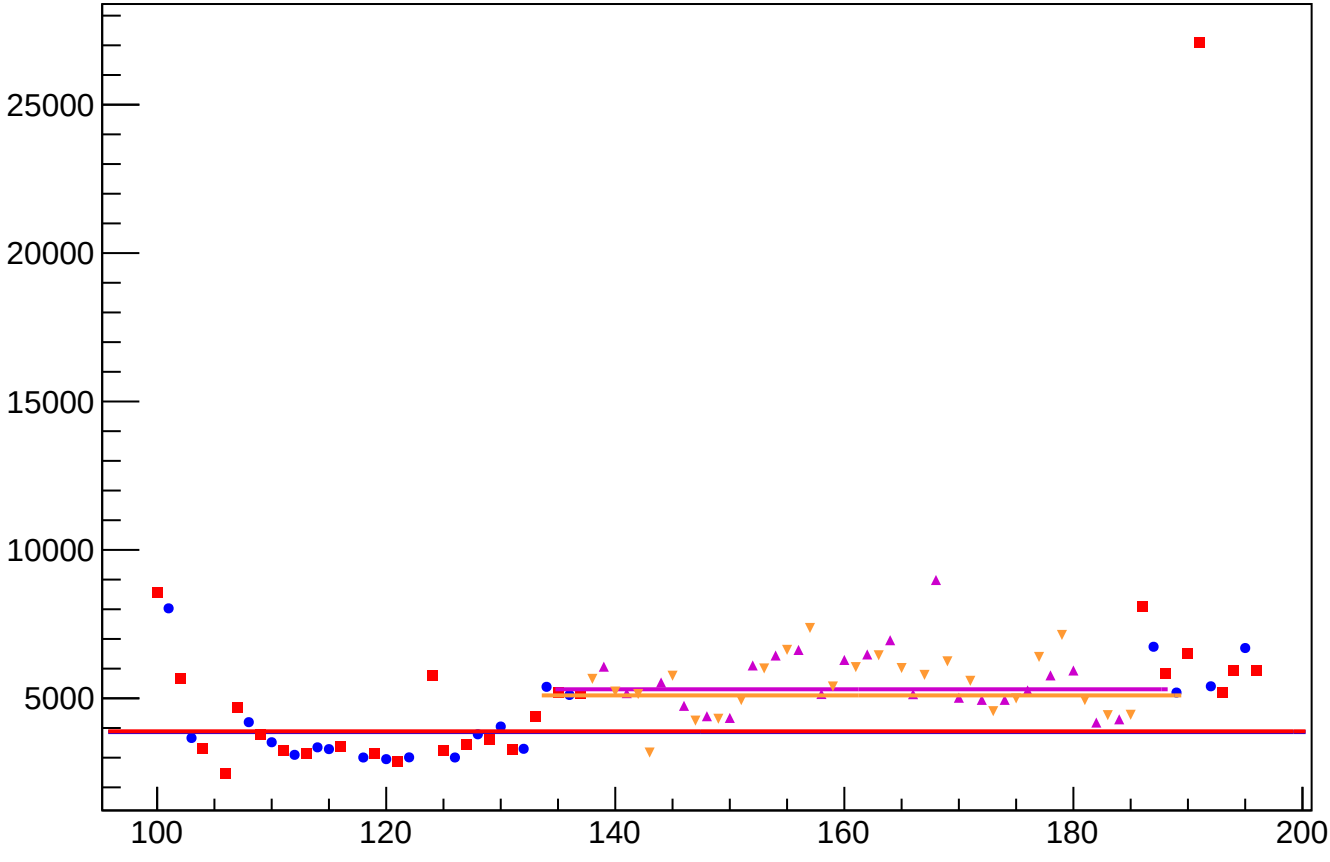
Right: 2955.931+/-882.801 $\chi^2$/NDF: 50.1/45

In: 2645.518+/-901.138 $\chi^2$/NDF:35.0/42

Out: 2780.891+/-847.928 $\chi^2$/NDF:59.3/50

All: 2717.319+/-617.530 $\chi^2$/NDF: 94.3/93

# asym_atr1l2_avg_rms vs Slug, Sign Corrected




Right In: 3862.154+/-0.912 $\chi^2$/NDF: 1529816.0/19

Left Out: 5097.995+/-0.840 $\chi^2$/NDF:1544385.5/24

Right Out: 3887.936+/-0.846 $\chi^2$/NDF: 2181261.5/25

Left In: 5304.171+/-0.891 $\chi^2$/NDF:1017974.6/22

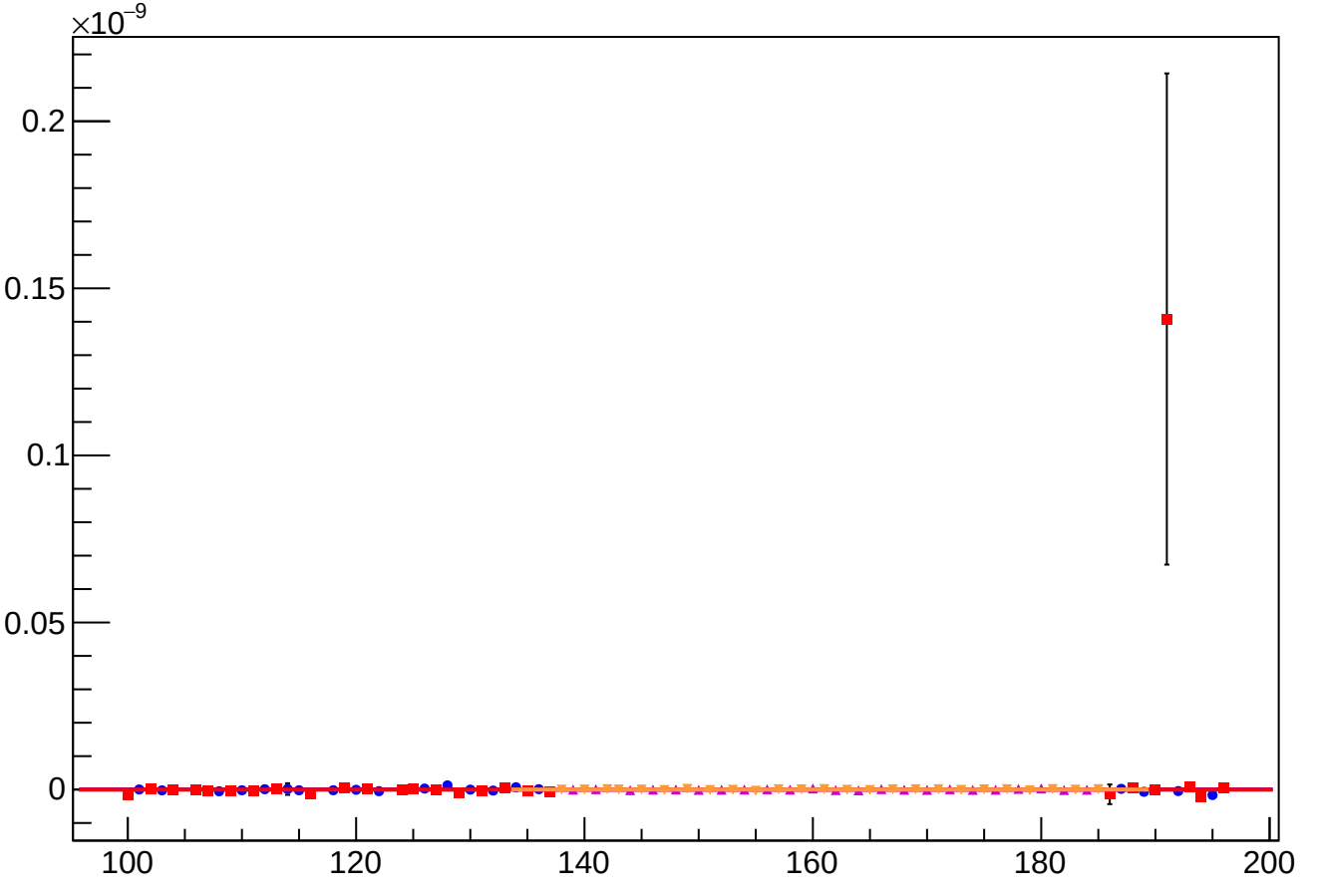
Left: 5195.024+/-0.611 $\chi^2$/NDF: 2590724.7/47

Right: 3876.019+/-0.620 $\chi^2$/NDF: 3711507.3/45

In: 4600.144+/-0.637 $\chi^2$/NDF:3827430.6/42

Out: 4497.060+/-0.596 $\chi^2$/NDF:4756683.0/50

All: 4545.148+/-0.435 $\chi^2$/NDF: 8598076.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 35.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.9/22

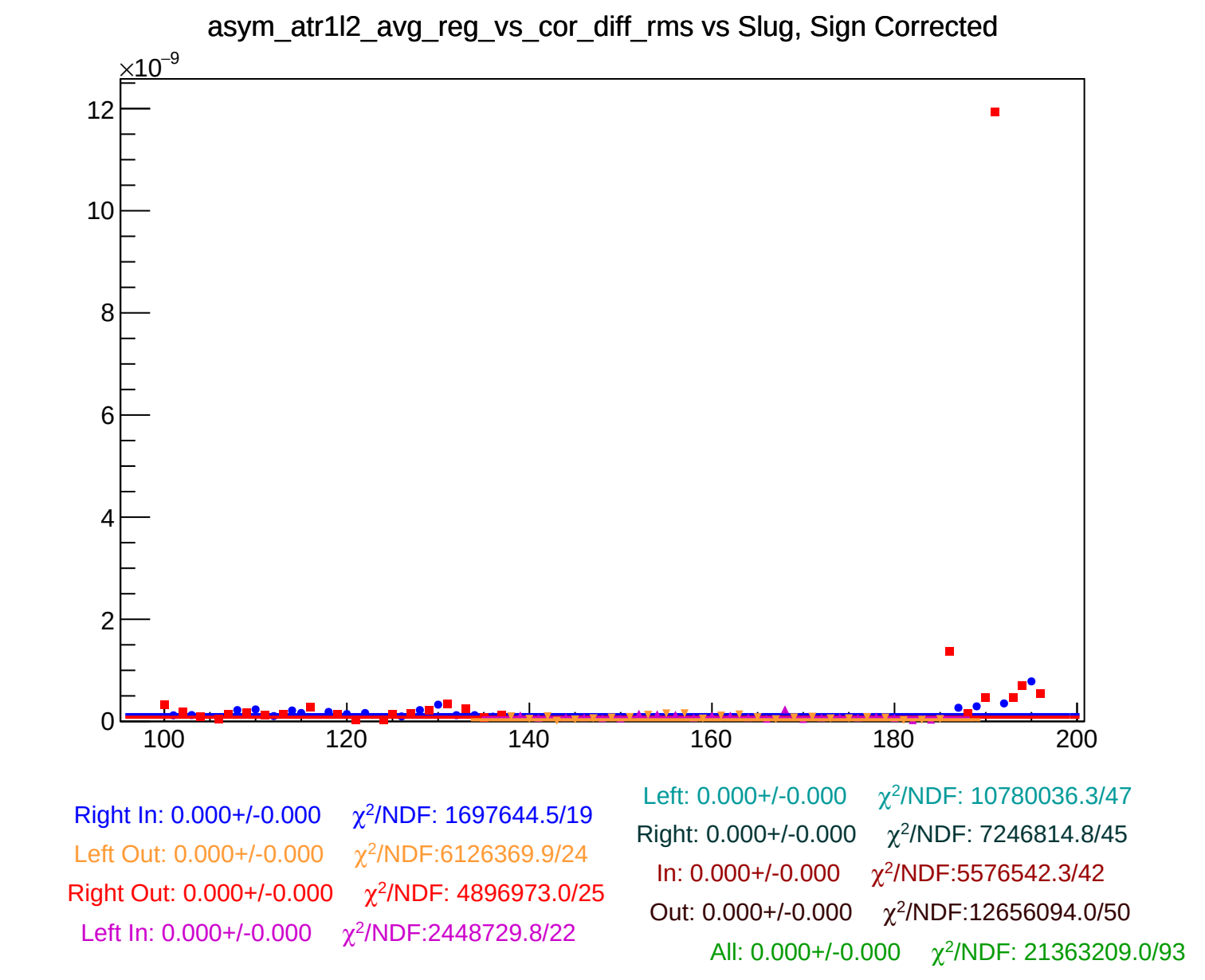
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.2/47

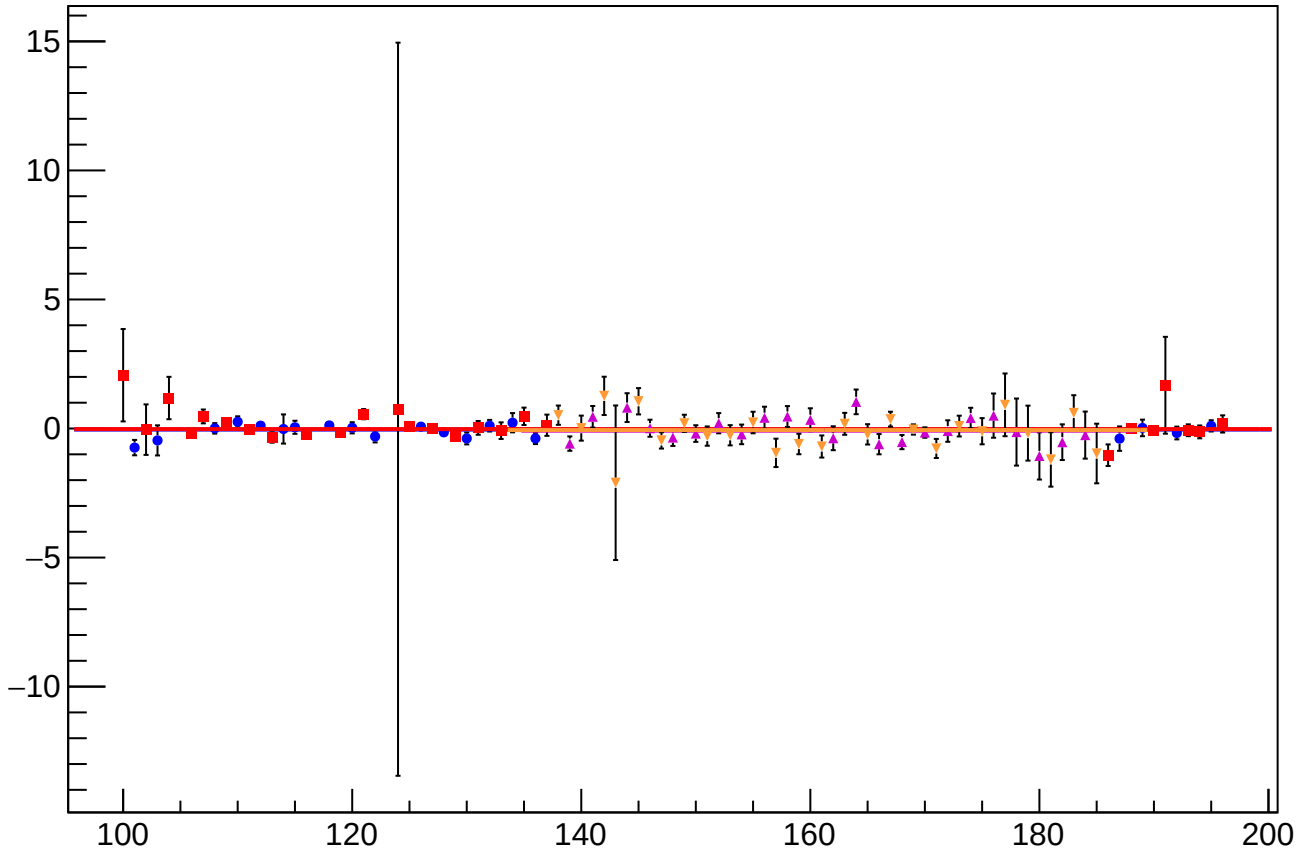
Right: -0.000+/-0.000 $\chi^2$/NDF: 57.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:50.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 95.3/93


asym_atr1l2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
12
10
8
6
4
2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1697644.5/19
Left Out: 0.000+/-0.000 χ²/NDF:6126369.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 4896973.0/25
Left In: 0.000+/-0.000 χ²/NDF:2448729.8/22
Left: 0.000+/-0.000 χ²/NDF: 10780036.3/47
Right: 0.000+/-0.000 χ²/NDF: 7246814.8/45
In: 0.000+/-0.000 χ²/NDF:5576542.3/42
Out: 0.000+/-0.000 χ²/NDF:12656094.0/50
All: 0.000+/-0.000 χ²/NDF: 21363209.0/93




Right In: -0.040+/-0.052 $\chi^2$/NDF: 19.2/19

Left Out: -0.061+/-0.084 $\chi^2$/NDF:30.8/24

Right Out: -0.023+/-0.043 $\chi^2$/NDF: 36.3/25

Left In: -0.084+/-0.081 $\chi^2$/NDF:27.0/22

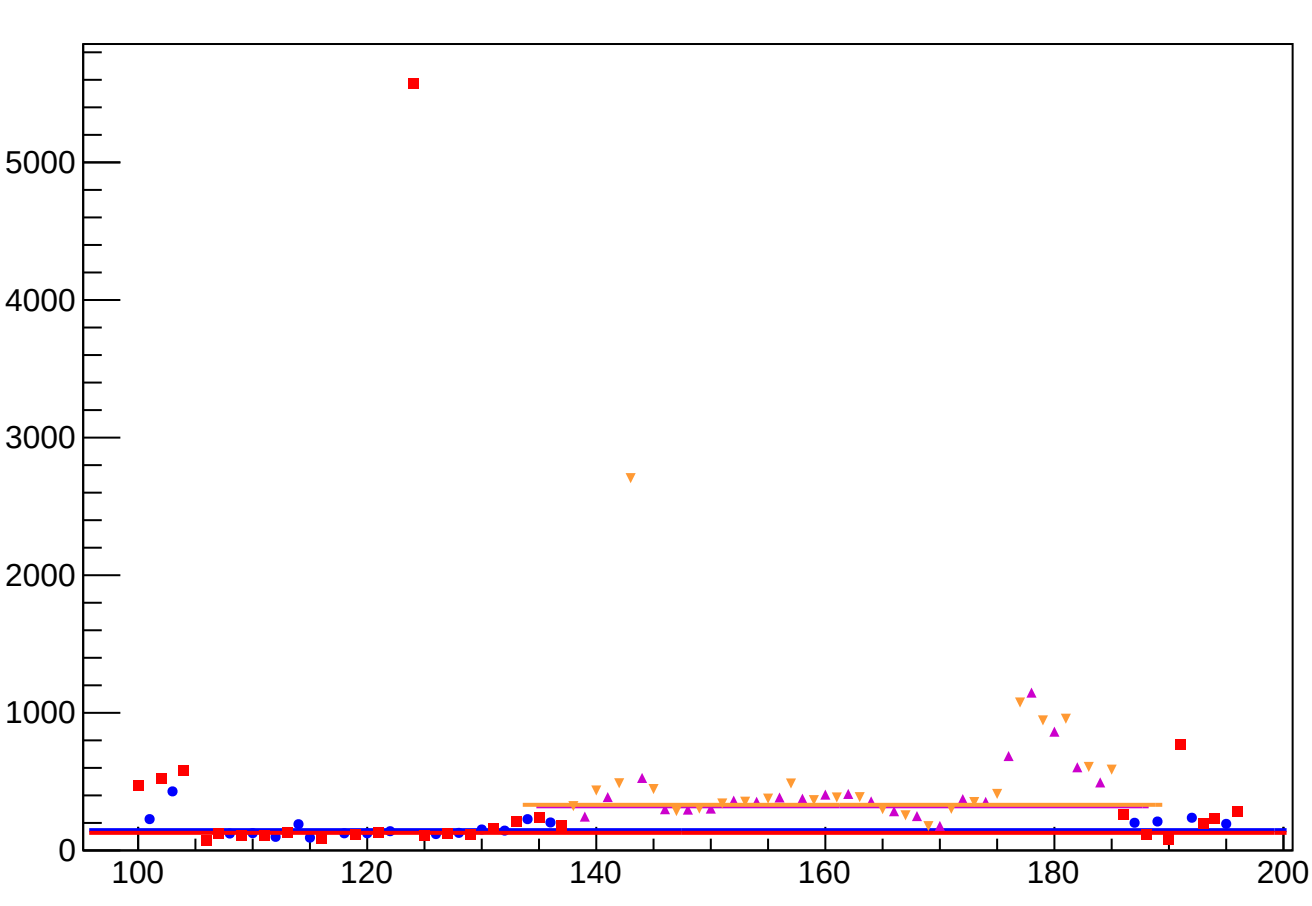
Left: -0.073+/-0.058 $\chi^2$/NDF: 57.8/47

Right: -0.030+/-0.033 $\chi^2$/NDF: 55.6/45

In: -0.053+/-0.044 $\chi^2$/NDF:46.5/42

Out: -0.031+/-0.039 $\chi^2$/NDF:67.2/50

All: -0.040+/-0.029 $\chi^2$/NDF: 113.8/93




Right In: 147.612+/-0.037 $\chi^2$/NDF: 1789680.9/19

Left Out: 331.651+/-0.059 $\chi^2$/NDF:5838206.4/24

Right Out: 127.996+/-0.031 $\chi^2$/NDF: 3788924.1/25

Left In: 320.746+/-0.057 $\chi^2$/NDF:4248172.2/22

Left: 326.030+/-0.041 $\chi^2$/NDF: 10103882.3/47

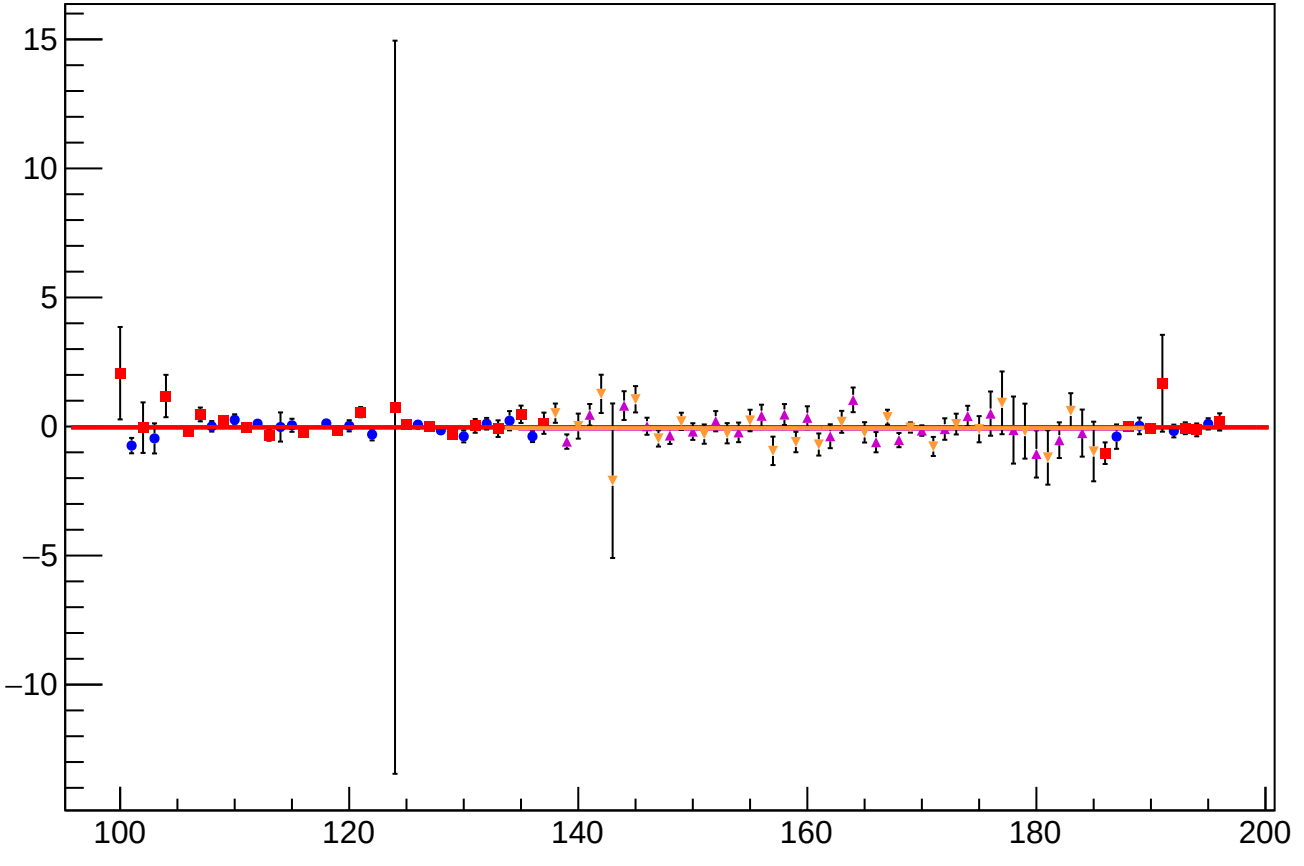
Right: 136.076+/-0.024 $\chi^2$/NDF: 5747170.1/45

In: 197.758+/-0.031 $\chi^2$/NDF:12505363.6/42

Out: 171.101+/-0.027 $\chi^2$/NDF:18963098.8/50

All: 182.760+/-0.020 $\chi^2$/NDF: 31887729.0/93

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.052 $\chi^2$/NDF: 19.2/19

Left Out: -0.061+/-0.084 $\chi^2$/NDF:30.8/24

Right Out: -0.023+/-0.043 $\chi^2$/NDF: 36.3/25

Left In: -0.084+/-0.081 $\chi^2$/NDF:27.0/22

Left: -0.073+/-0.058 $\chi^2$/NDF: 57.8/47

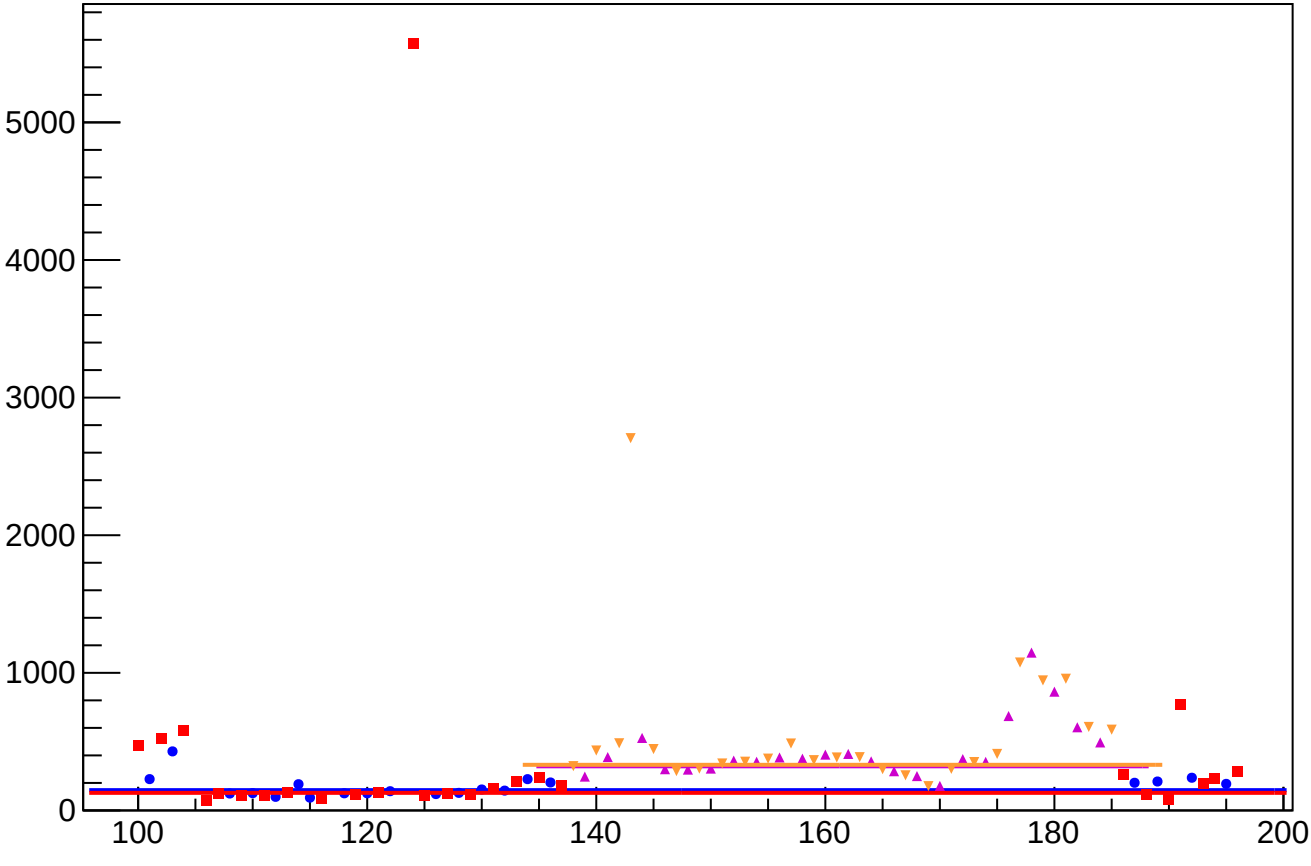
Right: -0.030+/-0.033 $\chi^2$/NDF: 55.6/45

In: -0.053+/-0.044 $\chi^2$/NDF:46.5/42

Out: -0.031+/-0.039 $\chi^2$/NDF:67.2/50

All: -0.040+/-0.029 $\chi^2$/NDF: 113.8/93

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 147.612+/-0.037 $\chi^2$/NDF: 1789680.9/19

Left Out: 331.651+/-0.059 $\chi^2$/NDF:5838206.4/24

Right Out: 127.996+/-0.031 $\chi^2$/NDF: 3788924.1/25

Left In: 320.746+/-0.057 $\chi^2$/NDF:4248172.2/22

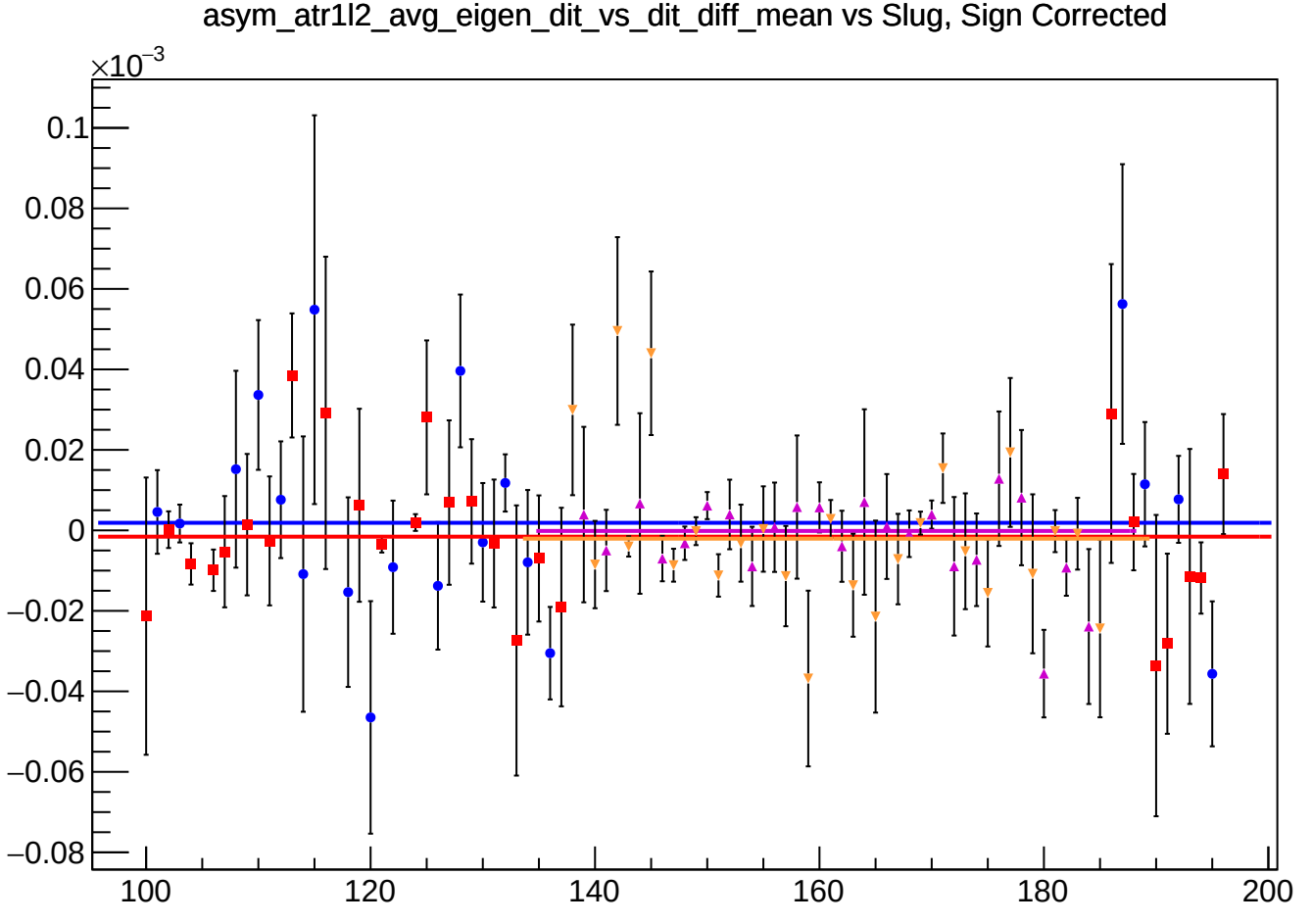
Left: 326.030+/-0.041 $\chi^2$/NDF: 10103882.3/47

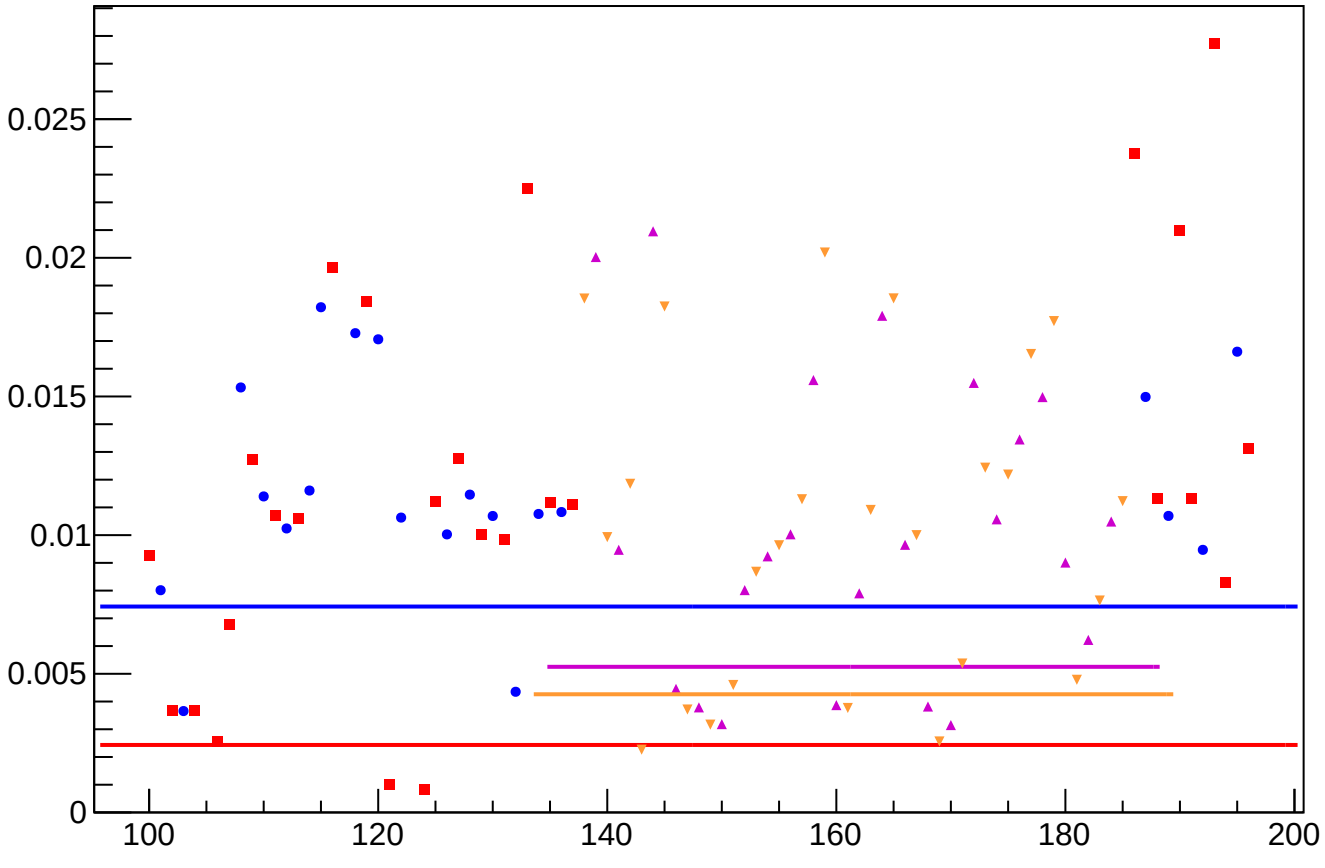
Right: 136.076+/-0.024 $\chi^2$/NDF: 5747170.1/45

In: 197.758+/-0.031 $\chi^2$/NDF:12505363.6/42

Out: 171.101+/-0.027 $\chi^2$/NDF:18963098.8/50

All: 182.760+/-0.020 $\chi^2$/NDF: 31887729.0/93


asym_atr1l2_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 31.2/19
Left Out: -0.000+/-0.000 χ²/NDF:34.8/24
Right Out: -0.000+/-0.000 χ²/NDF: 25.7/25
Left In: -0.000+/-0.000 χ²/NDF:24.9/22
Left: -0.000+/-0.000 χ²/NDF: 60.6/47
Right: -0.000+/-0.000 χ²/NDF: 58.3/45
In: 0.000+/-0.000 χ²/NDF:56.5/42
Out: -0.000+/-0.000 χ²/NDF:60.6/50
All: -0.000+/-0.000 χ²/NDF: 118.9/93




Right In: 0.007+/-0.000 $\chi^2$/NDF: 4082730.9/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:12968514.8/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 14964743.4/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:9531217.7/22

Left: 0.005+/-0.000 $\chi^2$/NDF: 23007822.3/47

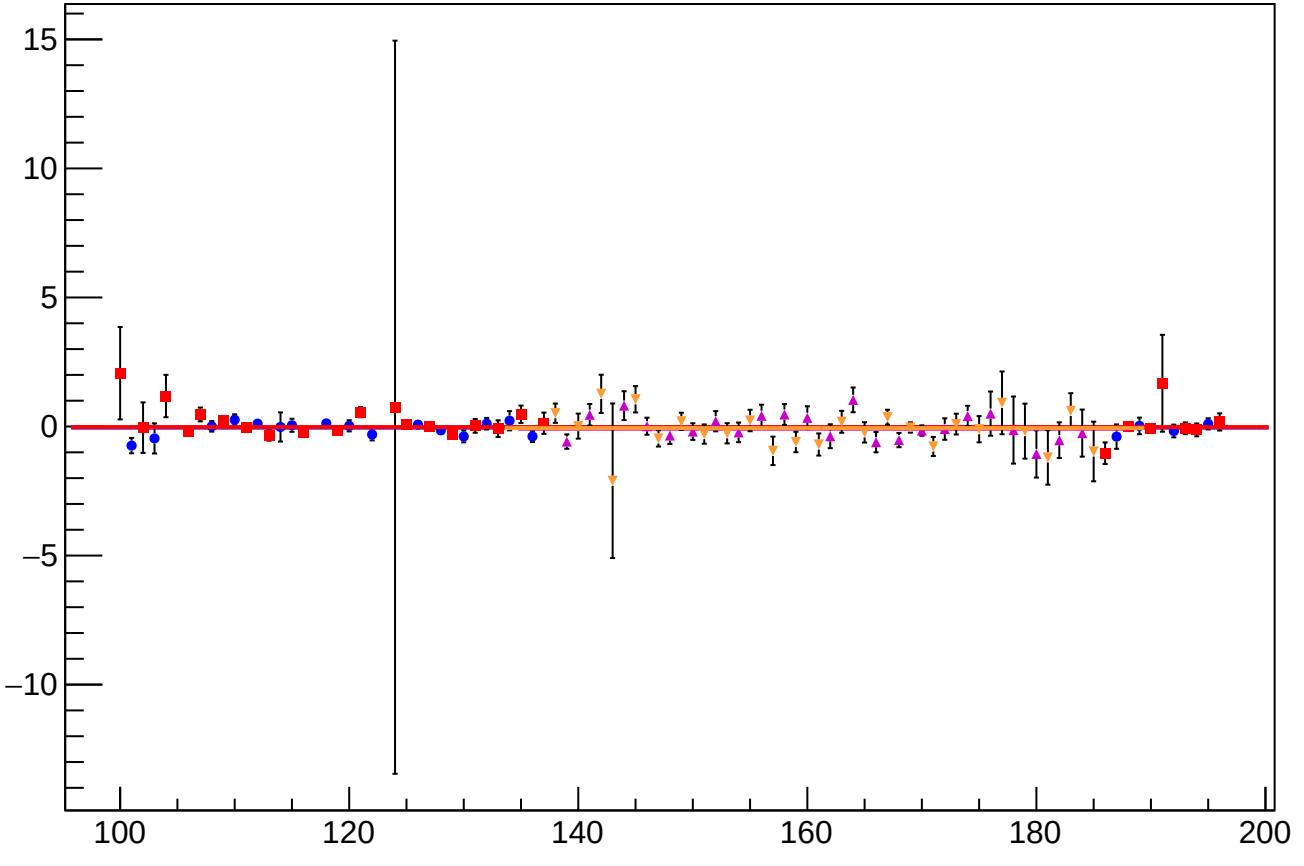
Right: 0.003+/-0.000 $\chi^2$/NDF: 24470389.9/45

In: 0.006+/-0.000 $\chi^2$/NDF:14560373.9/42

Out: 0.003+/-0.000 $\chi^2$/NDF:30116326.1/50

All: 0.004+/-0.000 $\chi^2$/NDF: 49283205.6/93

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.052 $\chi^2$/NDF: 19.2/19

Left Out: -0.061+/-0.084 $\chi^2$/NDF:30.8/24

Right Out: -0.023+/-0.043 $\chi^2$/NDF: 36.3/25

Left In: -0.084+/-0.081 $\chi^2$/NDF:27.0/22

Left: -0.073+/-0.058 $\chi^2$/NDF: 57.8/47

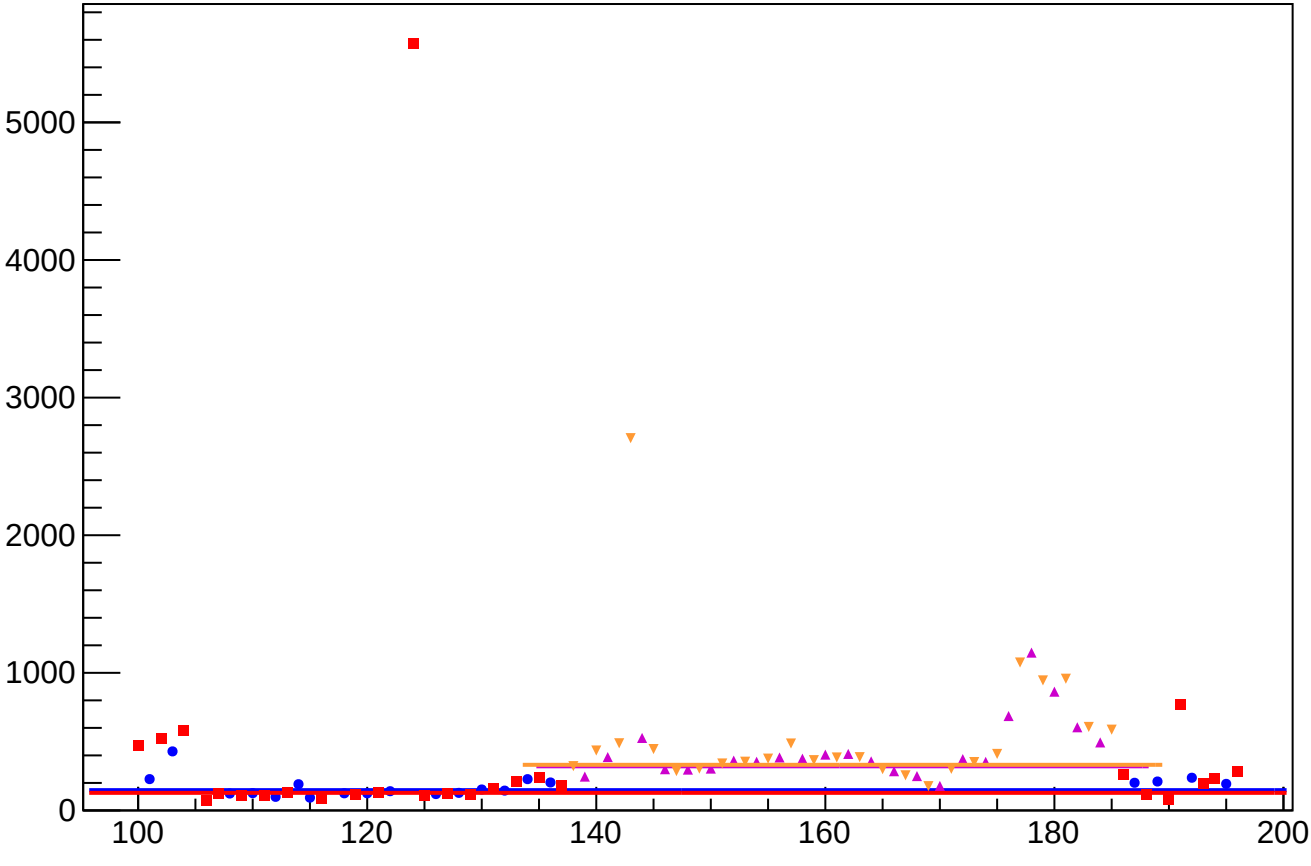
Right: -0.030+/-0.033 $\chi^2$/NDF: 55.6/45

In: -0.053+/-0.044 $\chi^2$/NDF:46.5/42

Out: -0.031+/-0.039 $\chi^2$/NDF:67.2/50

All: -0.040+/-0.029 $\chi^2$/NDF: 113.8/93

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 147.613+/-0.037 $\chi^2$/NDF: 1789595.1/19

Left Out: 331.653+/-0.059 $\chi^2$/NDF:5838264.0/24

Right Out: 127.995+/-0.031 $\chi^2$/NDF: 3788878.9/25

Left In: 320.749+/-0.057 $\chi^2$/NDF:4248171.3/22

Left: 326.033+/-0.041 $\chi^2$/NDF: 10103935.7/47

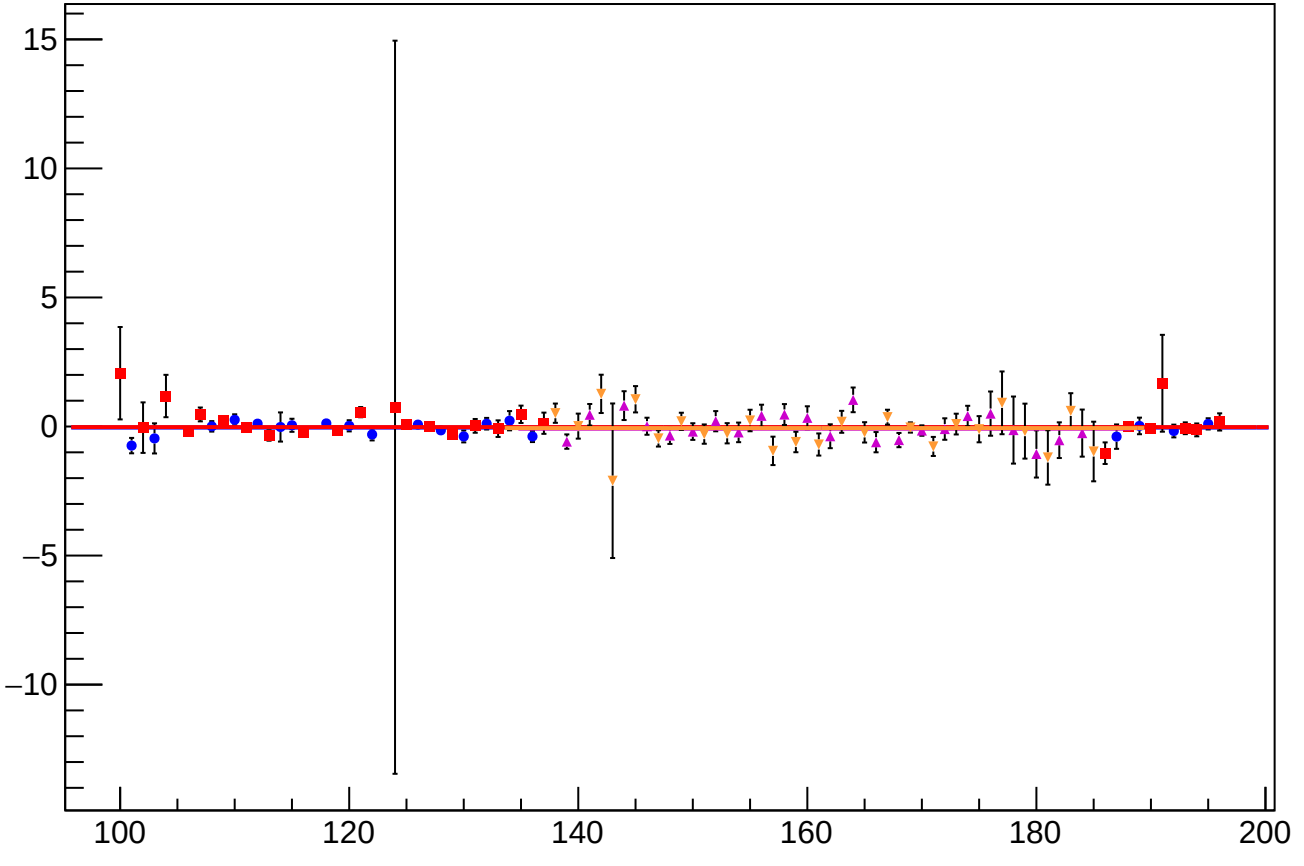
Right: 136.076+/-0.024 $\chi^2$/NDF: 5747062.5/45

In: 197.759+/-0.031 $\chi^2$/NDF:12505328.6/42

Out: 171.100+/-0.027 $\chi^2$/NDF:18963248.7/50

All: 182.760+/-0.020 $\chi^2$/NDF: 31887894.2/93

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.040+/-0.052 $\chi^2$/NDF: 19.2/19

Left Out: -0.061+/-0.084 $\chi^2$/NDF:30.8/24

Right Out: -0.023+/-0.043 $\chi^2$/NDF: 36.3/25

Left In: -0.084+/-0.081 $\chi^2$/NDF:27.0/22

Left: -0.073+/-0.058 $\chi^2$/NDF: 57.8/47

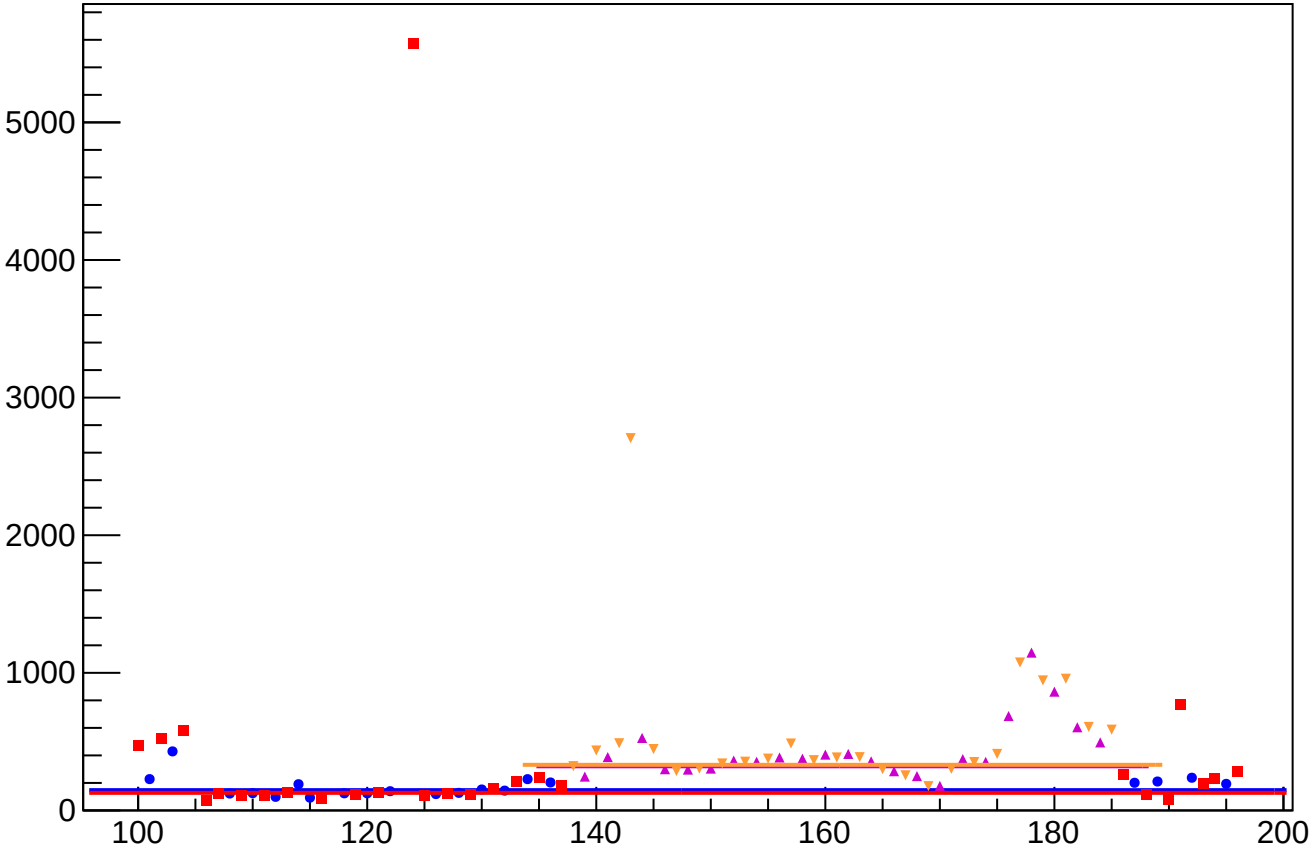
Right: -0.030+/-0.033 $\chi^2$/NDF: 55.6/45

In: -0.053+/-0.044 $\chi^2$/NDF:46.5/42

Out: -0.031+/-0.039 $\chi^2$/NDF:67.2/50

All: -0.040+/-0.029 $\chi^2$/NDF: 113.8/93

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 147.613+/-0.037 $\chi^2$/NDF: 1789595.1/19

Left Out: 331.653+/-0.059 $\chi^2$/NDF:5838264.0/24

Right Out: 127.995+/-0.031 $\chi^2$/NDF: 3788878.9/25

Left In: 320.749+/-0.057 $\chi^2$/NDF:4248171.3/22

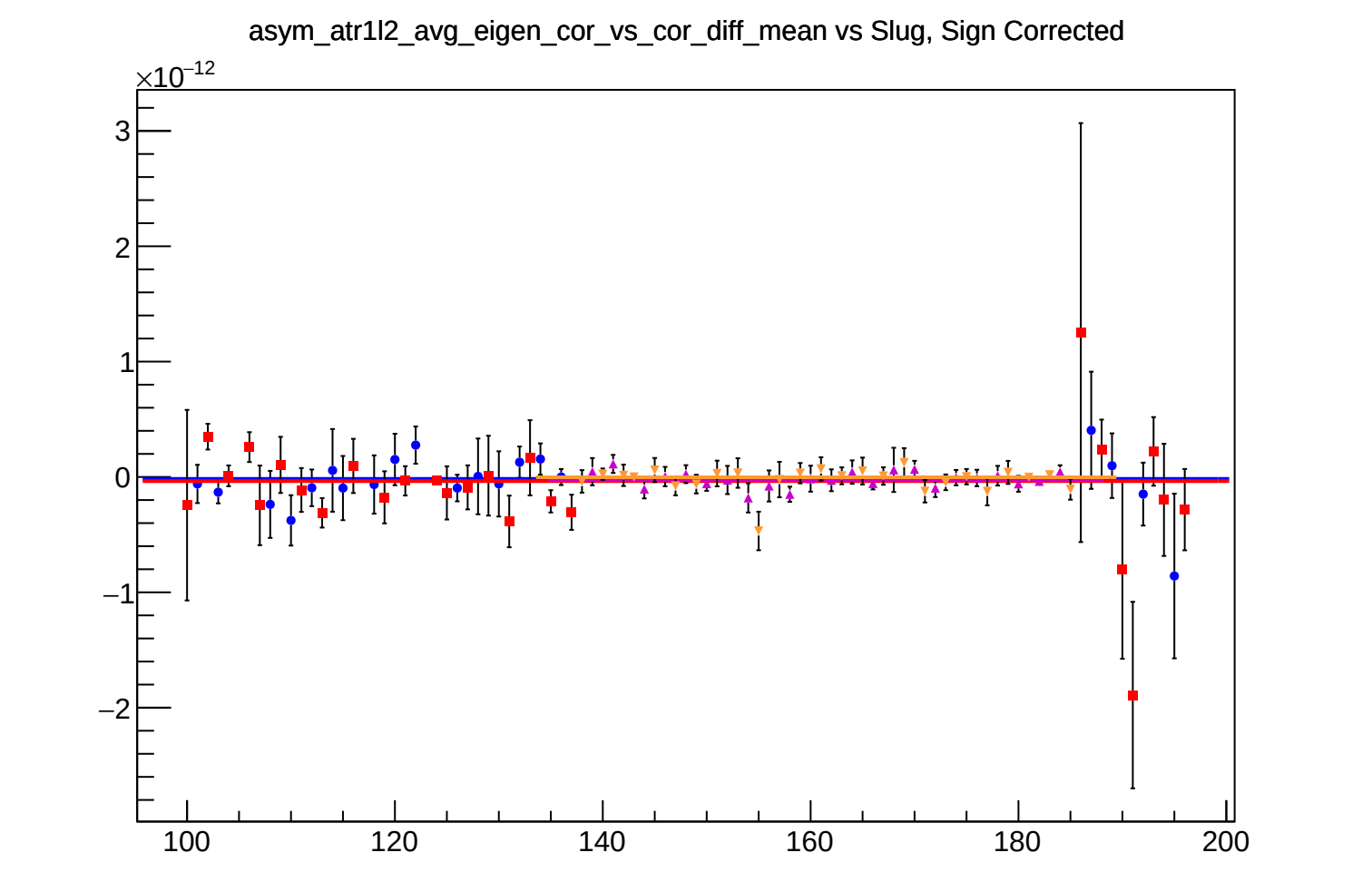
Left: 326.033+/-0.041 $\chi^2$/NDF: 10103935.7/47

Right: 136.076+/-0.024 $\chi^2$/NDF: 5747062.5/45

In: 197.759+/-0.031 $\chi^2$/NDF:12505328.6/42

Out: 171.100+/-0.027 $\chi^2$/NDF:18963248.7/50

All: 182.760+/-0.020 $\chi^2$/NDF: 31887894.2/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:17.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 42.4/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.1/22

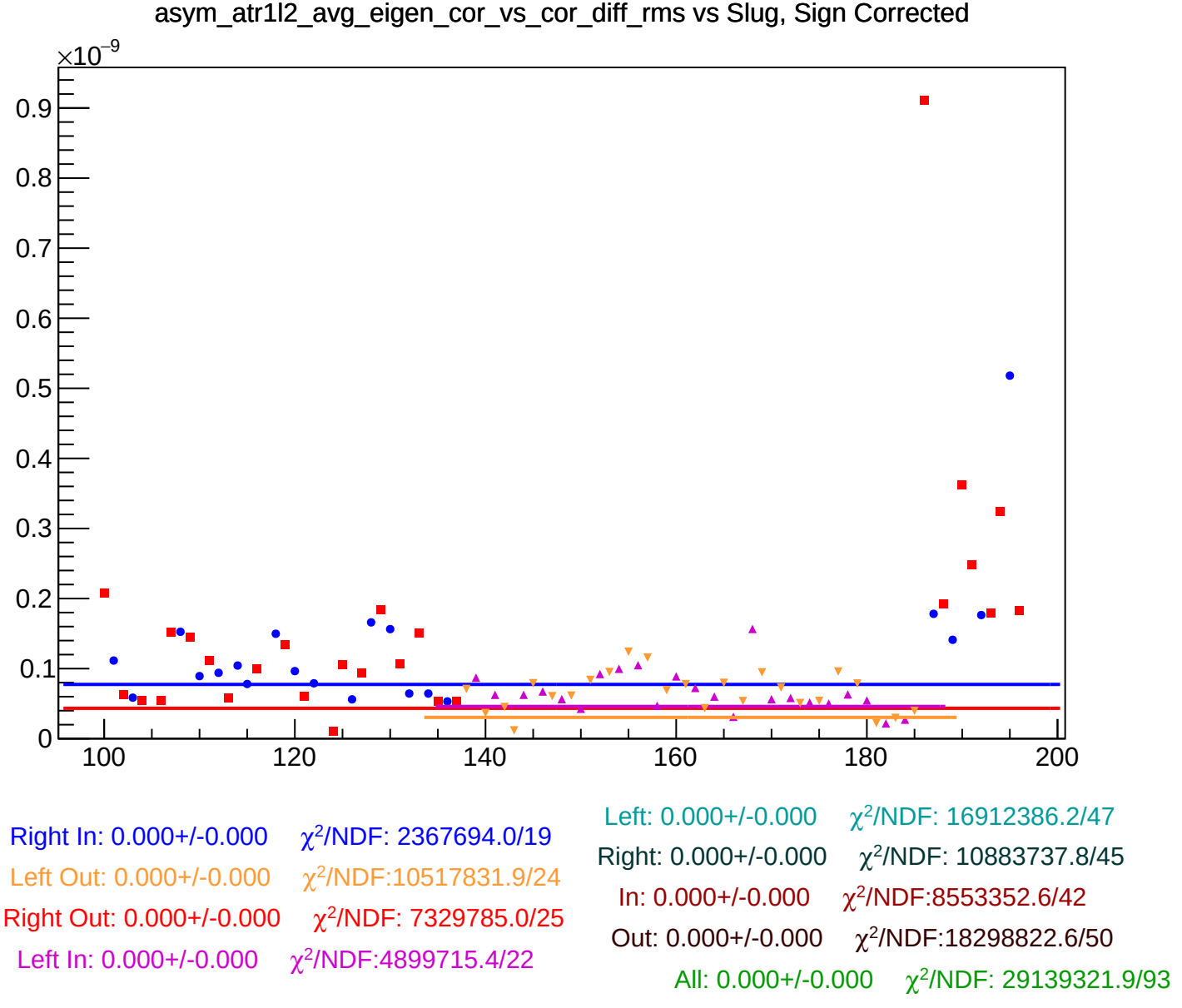
Left: -0.000+/-0.000 $\chi^2$/NDF: 34.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 57.4/45

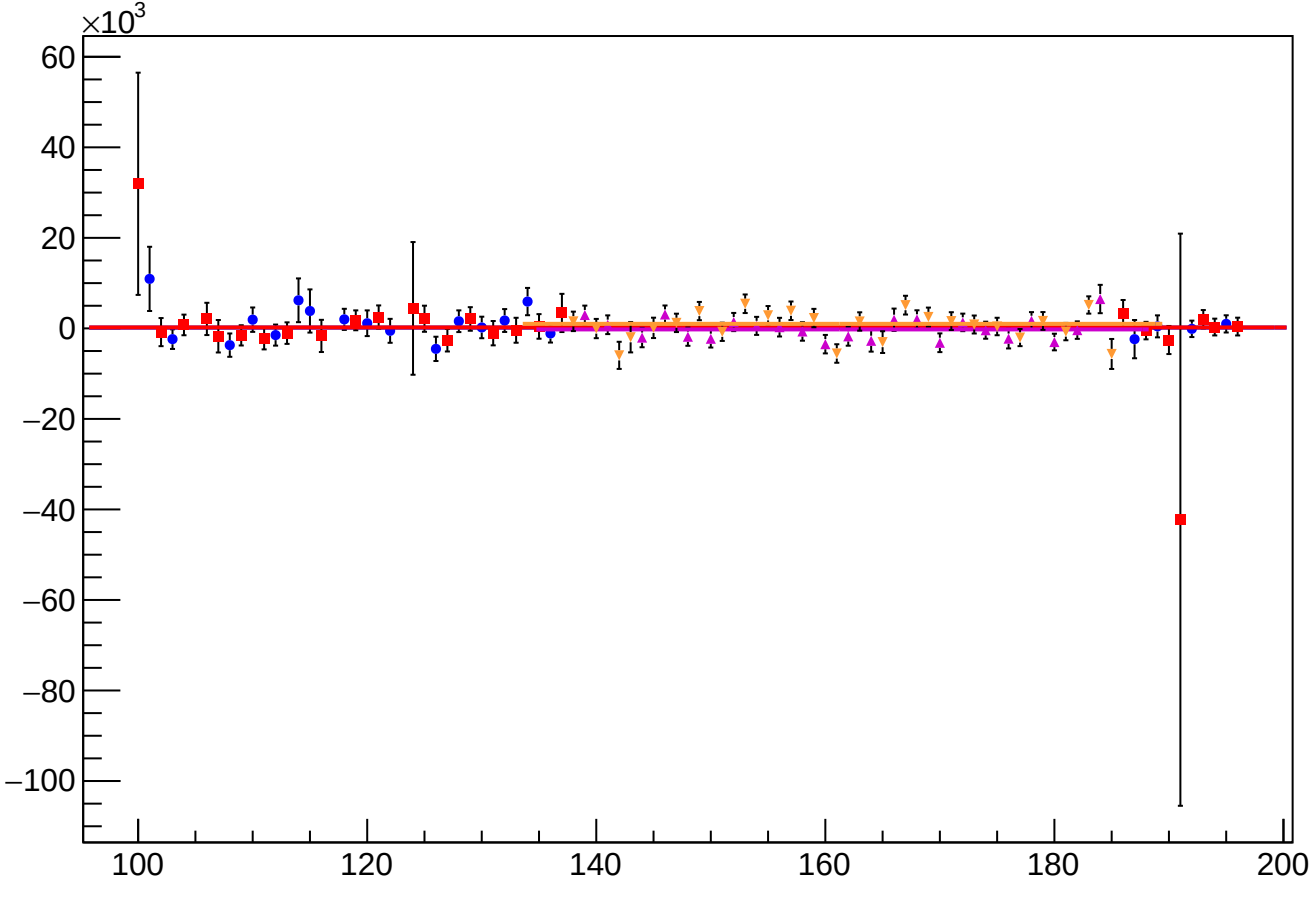
In: -0.000+/-0.000 $\chi^2$/NDF:31.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:60.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 92.9/93


asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2367694.0/19
Left Out: 0.000+/-0.000 χ²/NDF:10517831.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 7329785.0/25
Left In: 0.000+/-0.000 χ²/NDF:4899715.4/22
Left: 0.000+/-0.000 χ²/NDF: 16912386.2/47
Right: 0.000+/-0.000 χ²/NDF: 10883737.8/45
In: 0.000+/-0.000 χ²/NDF:8553352.6/42
Out: 0.000+/-0.000 χ²/NDF:18298822.6/50
All: 0.000+/-0.000 χ²/NDF: 29139321.9/93

# reg_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 171.827+/-572.302 $\chi^2$/NDF: 18.2/19

Left Out: 1004.165+/-422.582 $\chi^2$/NDF:47.4/24

Right Out: 209.894+/-526.780 $\chi^2$/NDF: 12.2/25

Left In: -229.321+/-429.699 $\chi^2$/NDF:26.4/22

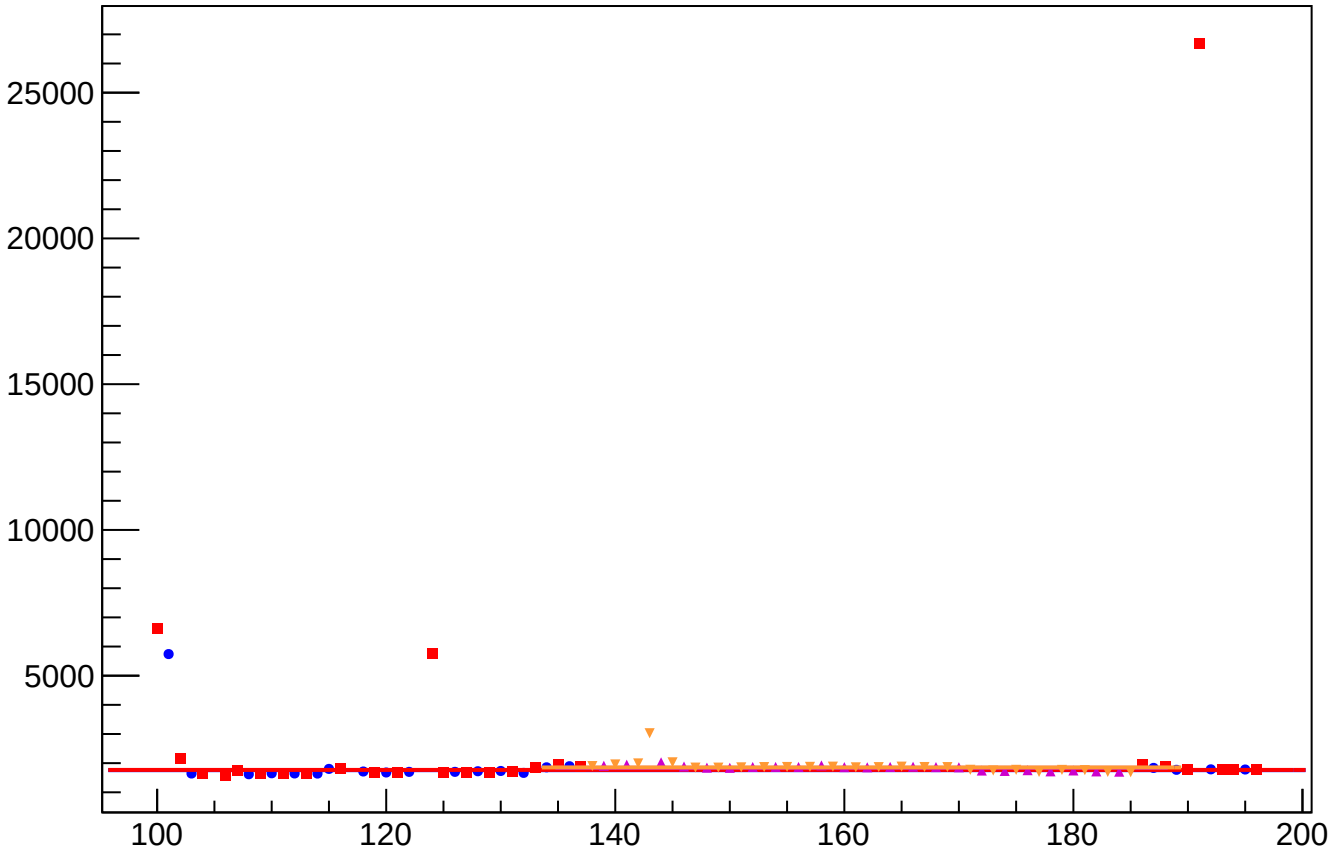
Left: 397.721+/-301.295 $\chi^2$/NDF: 77.9/47

Right: 192.435+/-387.585 $\chi^2$/NDF: 30.5/45

In: -84.704+/-343.623 $\chi^2$/NDF:44.9/42

Out: 693.167+/-329.627 $\chi^2$/NDF:61.0/50

All: 320.395+/-237.876 $\chi^2$/NDF: 108.6/93




Right In: 1759.258+/-0.405 $\chi^2$/NDF: 671455.0/19

Left Out: 1852.534+/-0.299 $\chi^2$/NDF:321038.9/24

Right Out: 1767.656+/-0.371 $\chi^2$/NDF: 637785.5/25

Left In: 1838.528+/-0.304 $\chi^2$/NDF:68478.0/22

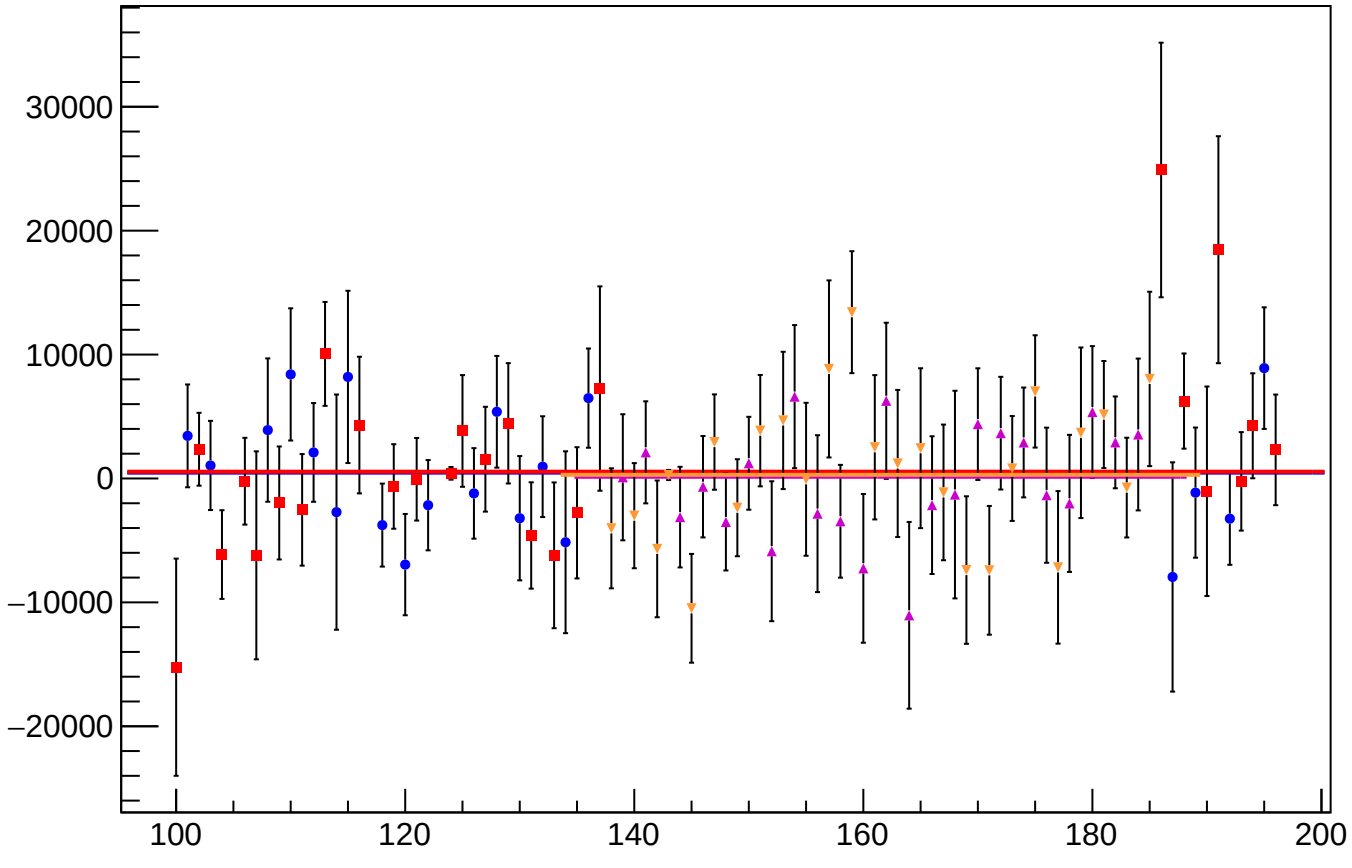
Left: 1845.648+/-0.213 $\chi^2$/NDF: 390597.1/47

Right: 1763.824+/-0.273 $\chi^2$/NDF: 1309474.6/45

In: 1809.951+/-0.243 $\chi^2$/NDF:764470.8/42

Out: 1819.107+/-0.233 $\chi^2$/NDF:990600.8/50

All: 1814.727+/-0.168 $\chi^2$/NDF: 1755812.4/93




Right In: 472.143+/-1006.946 $\chi^2$/NDF: 19.7/19

Left Out: 294.407+/-379.922 $\chi^2$/NDF:30.0/24

Right Out: 546.631+/-445.404 $\chi^2$/NDF: 32.1/25

Left In: 138.350+/-1022.943 $\chi^2$/NDF:13.9/22

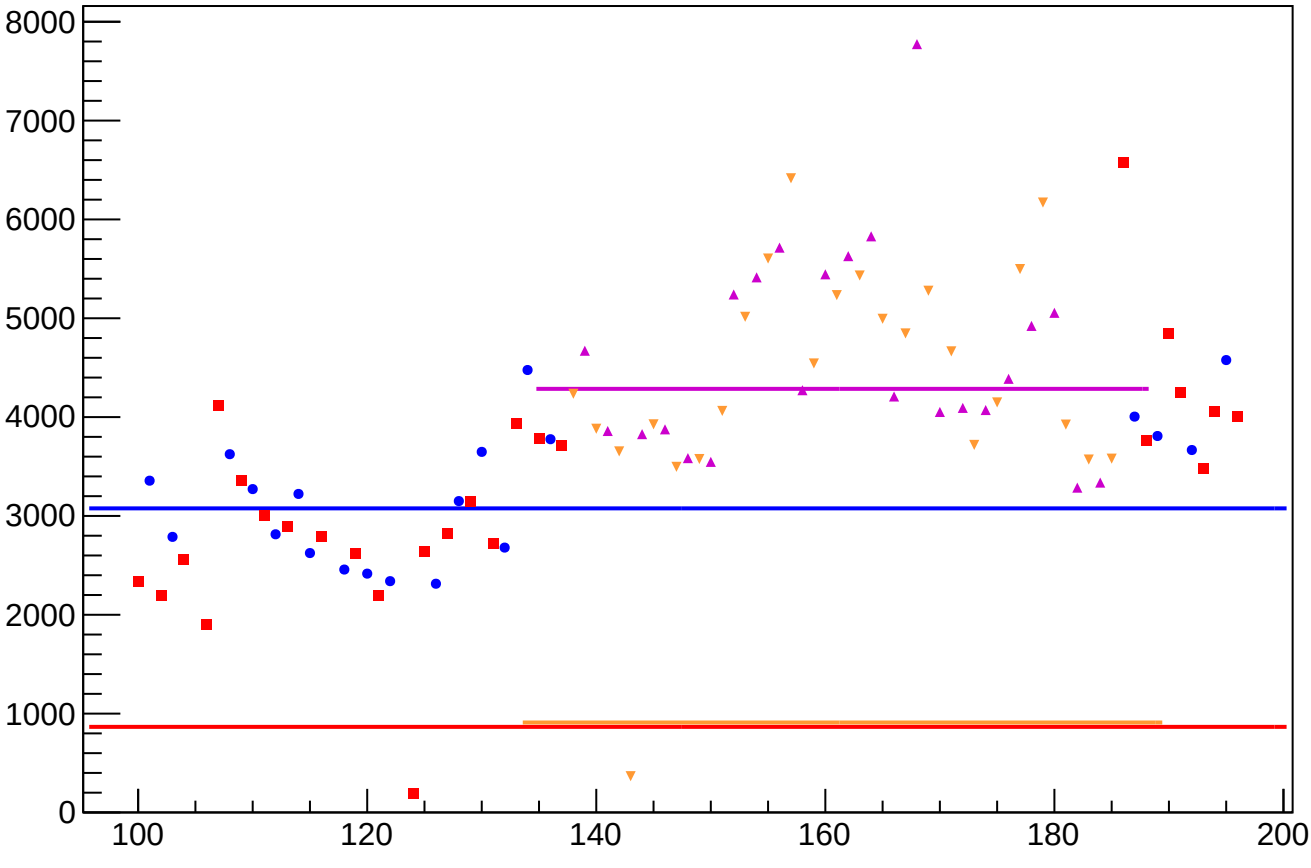
Left: 275.490+/-356.152 $\chi^2$/NDF: 43.9/47

Right: 534.442+/-407.334 $\chi^2$/NDF: 51.8/45

In: 307.877+/-717.607 $\chi^2$/NDF:33.6/42

Out: 400.633+/-289.051 $\chi^2$/NDF:62.3/50

All: 387.684+/-268.118 $\chi^2$/NDF: 96.0/93




Right In: 3076.583+/-0.712 $\chi^2$/NDF: 825212.1/19

Left Out: 910.135+/-0.269 $\chi^2$/NDF:26774123.9/24

Right Out: 865.942+/-0.315 $\chi^2$/NDF: 15905888.4/25

Left In: 4285.839+/-0.723 $\chi^2$/NDF:1327947.9/22

Left: 1319.331+/-0.252 $\chi^2$/NDF: 47241855.7/47

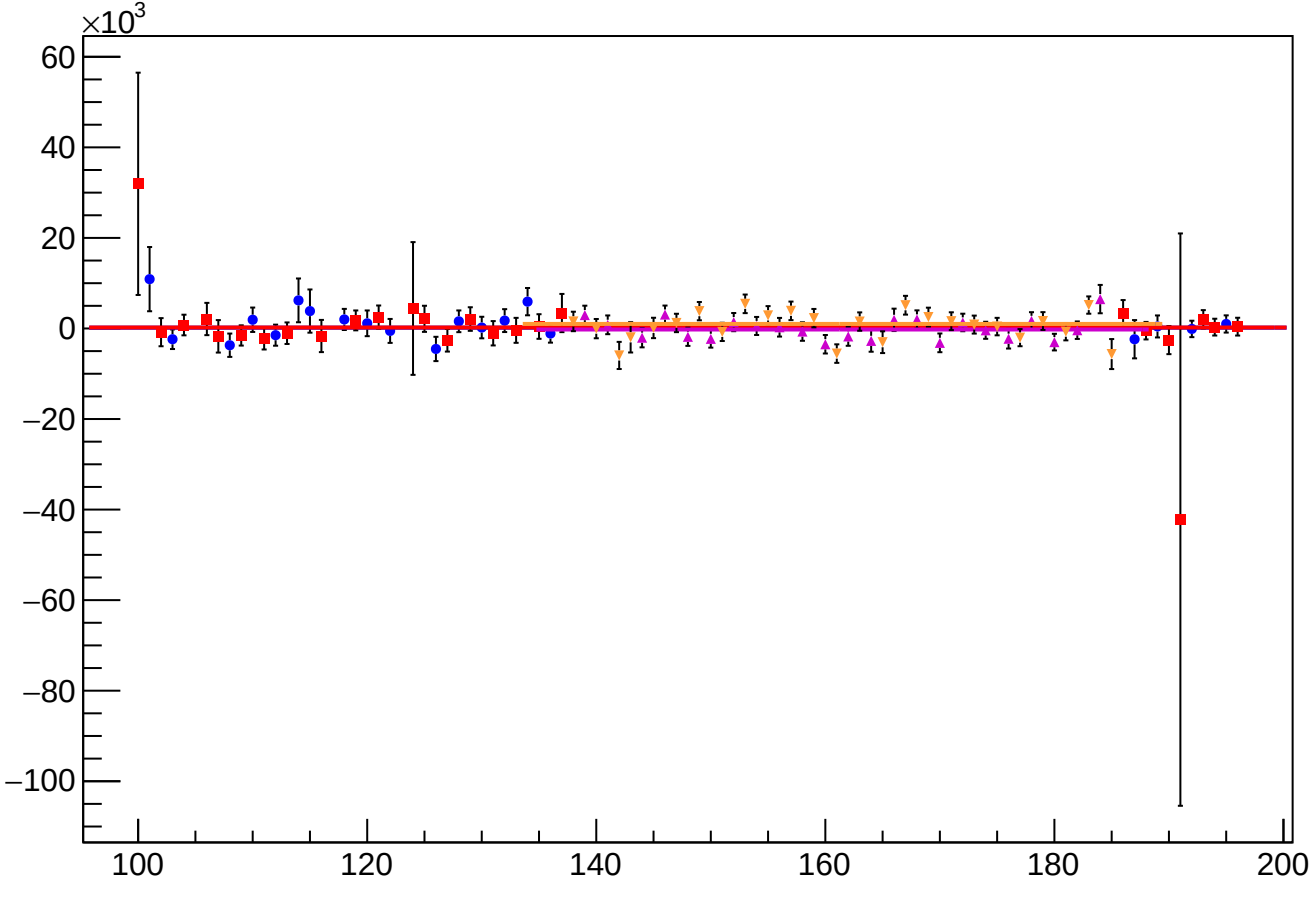
Right: 1227.691+/-0.288 $\chi^2$/NDF: 24793183.8/45

In: 3671.681+/-0.507 $\chi^2$/NDF:3572626.2/42

Out: 891.523+/-0.204 $\chi^2$/NDF:42691409.1/50

All: 1279.627+/-0.190 $\chi^2$/NDF: 72092409.3/9

# cor_asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: 171.534+/-572.302 $\chi^2$/NDF: 18.2/19

Left Out: 1004.123+/-422.582 $\chi^2$/NDF:47.4/24

Right Out: 209.888+/-526.780 $\chi^2$/NDF: 12.2/25

Left In: -229.236+/-429.699 $\chi^2$/NDF:26.4/22

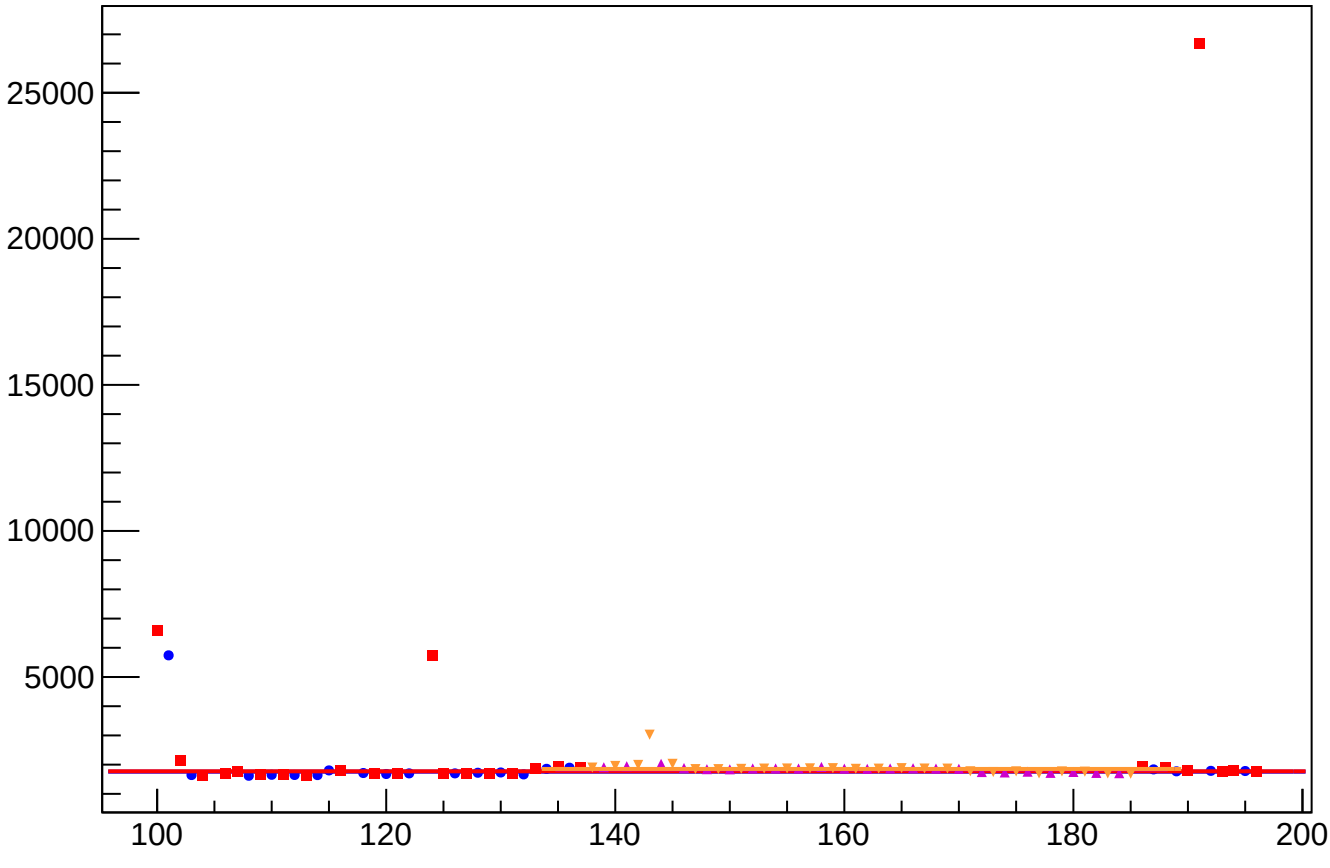
Left: 397.741+/-301.295 $\chi^2$/NDF: 77.9/47

Right: 192.297+/-387.585 $\chi^2$/NDF: 30.5/45

In: -84.756+/-343.623 $\chi^2$/NDF:44.9/42

Out: 693.140+/-329.627 $\chi^2$/NDF:61.0/50

All: 320.356+/-237.876 $\chi^2$/NDF: 108.6/93




Right In: 1759.258+/-0.405 $\chi^2$/NDF: 671455.2/19

Left Out: 1852.534+/-0.299 $\chi^2$/NDF:321038.9/24

Right Out: 1772.131+/-0.372 $\chi^2$/NDF: 629474.9/25

Left In: 1838.528+/-0.304 $\chi^2$/NDF:68478.0/22

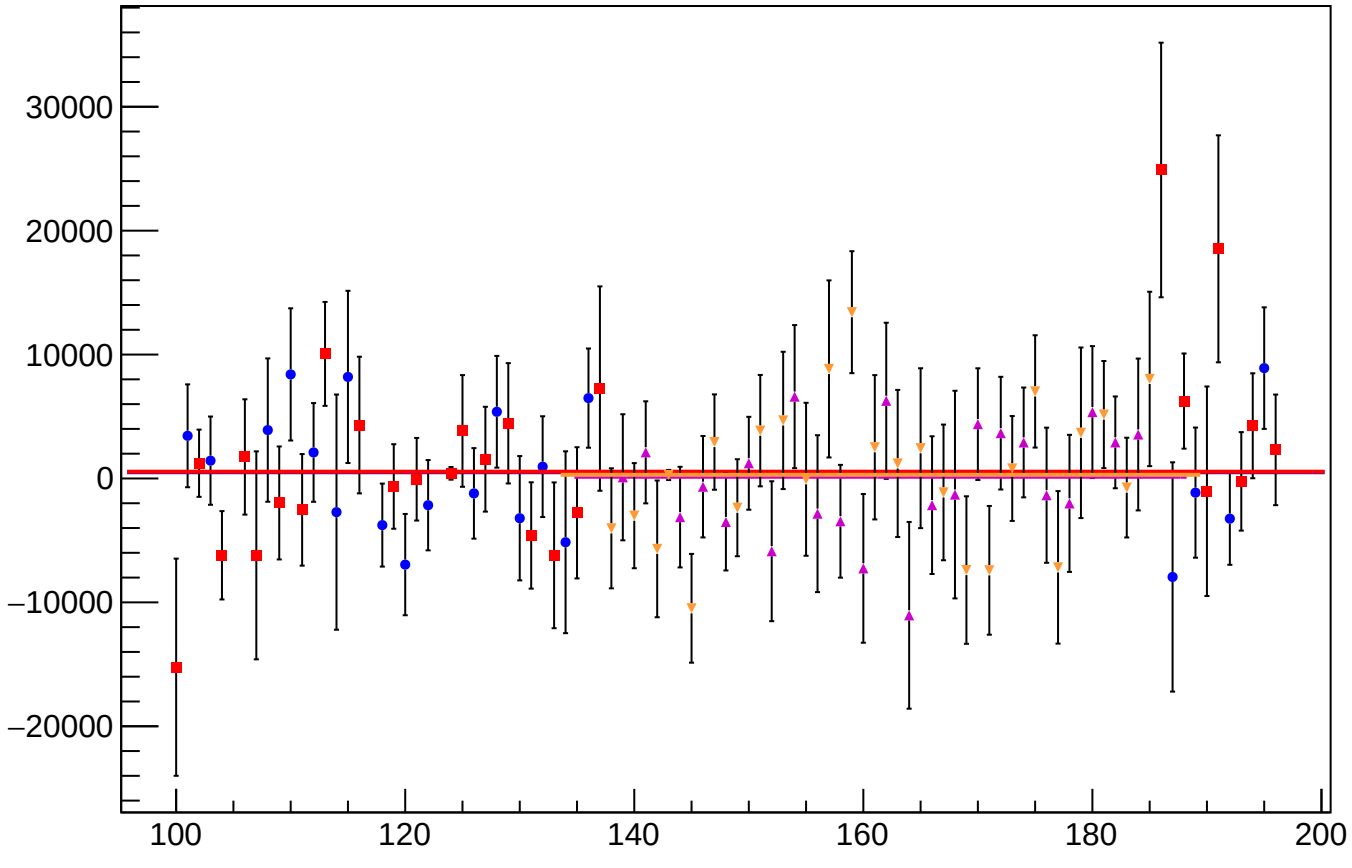
Left: 1845.648+/-0.213 $\chi^2$/NDF: 390597.1/47

Right: 1766.242+/-0.274 $\chi^2$/NDF: 1301479.2/45

In: 1809.951+/-0.243 $\chi^2$/NDF:764471.2/42

Out: 1820.959+/-0.233 $\chi^2$/NDF:978946.5/50

All: 1815.689+/-0.168 $\chi^2$/NDF: 1744487.7/93




Right In: 503.979+/-1006.152 $\chi^2$/NDF: 19.7/19

Left Out: 295.308+/-379.951 $\chi^2$/NDF:30.0/24

Right Out: 545.344+/-446.245 $\chi^2$/NDF: 31.9/25

Left In: 138.272+/-1022.940 $\chi^2$/NDF:13.9/22

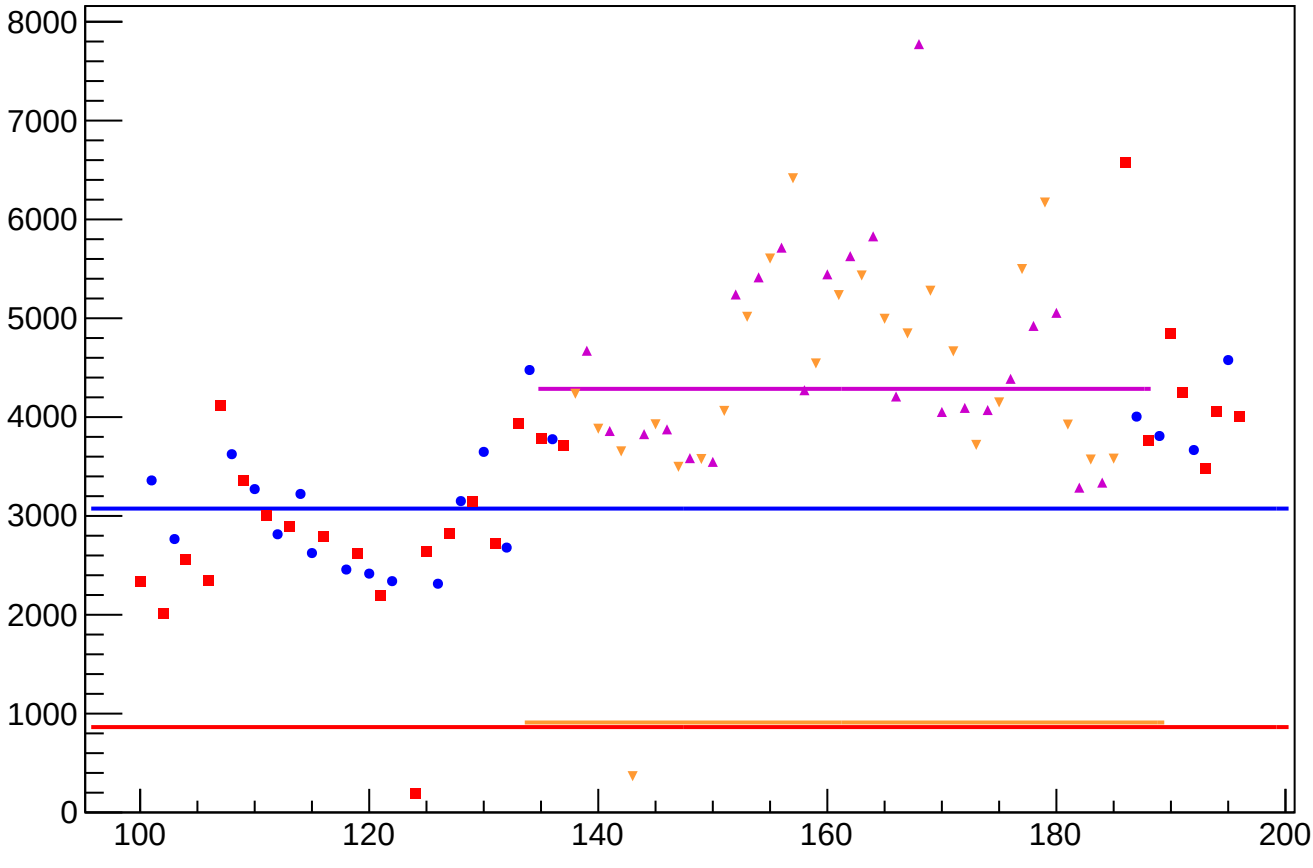
Left: 276.270+/-356.175 $\chi^2$/NDF: 43.9/47

Right: 538.544+/-407.924 $\chi^2$/NDF: 51.7/45

In: 324.151+/-717.319 $\chi^2$/NDF:33.7/42

Out: 400.391+/-289.294 $\chi^2$/NDF:62.1/50

All: 389.726+/-268.296 $\chi^2$/NDF: 95.8/93




Right In: 3074.471+/-0.711 $\chi^2$/NDF: 827714.5/19

Left Out: 910.253+/-0.269 $\chi^2$/NDF:26772969.1/24

Right Out: 863.716+/-0.316 $\chi^2$/NDF: 15871973.2/25

Left In: 4285.828+/-0.723 $\chi^2$/NDF:1327963.4/22

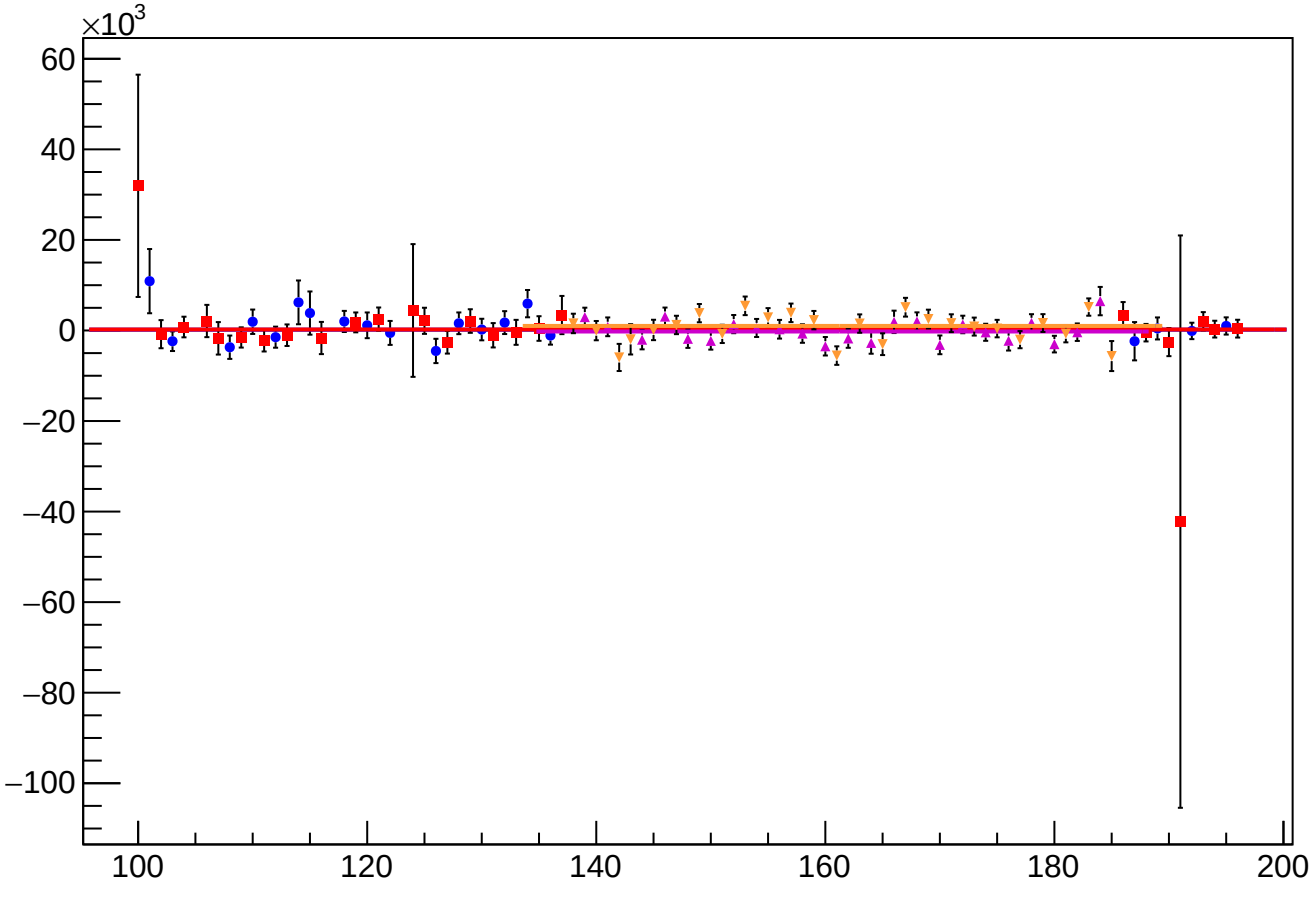
Left: 1319.491+/-0.252 $\chi^2$/NDF: 47238971.3/47

Right: 1227.106+/-0.288 $\chi^2$/NDF: 24768251.1/45

In: 3670.128+/-0.507 $\chi^2$/NDF:3581188.0/42

Out: 890.695+/-0.205 $\chi^2$/NDF:42657552.0/50

All: 1279.526+/-0.190 $\chi^2$/NDF: 72065429.4/9




Right In: 171.534+/-572.302 $\chi^2$/NDF: 18.2/19

Left Out: 1004.123+/-422.582 $\chi^2$/NDF:47.4/24

Right Out: 209.888+/-526.780 $\chi^2$/NDF: 12.2/25

Left In: -229.236+/-429.699 $\chi^2$/NDF:26.4/22

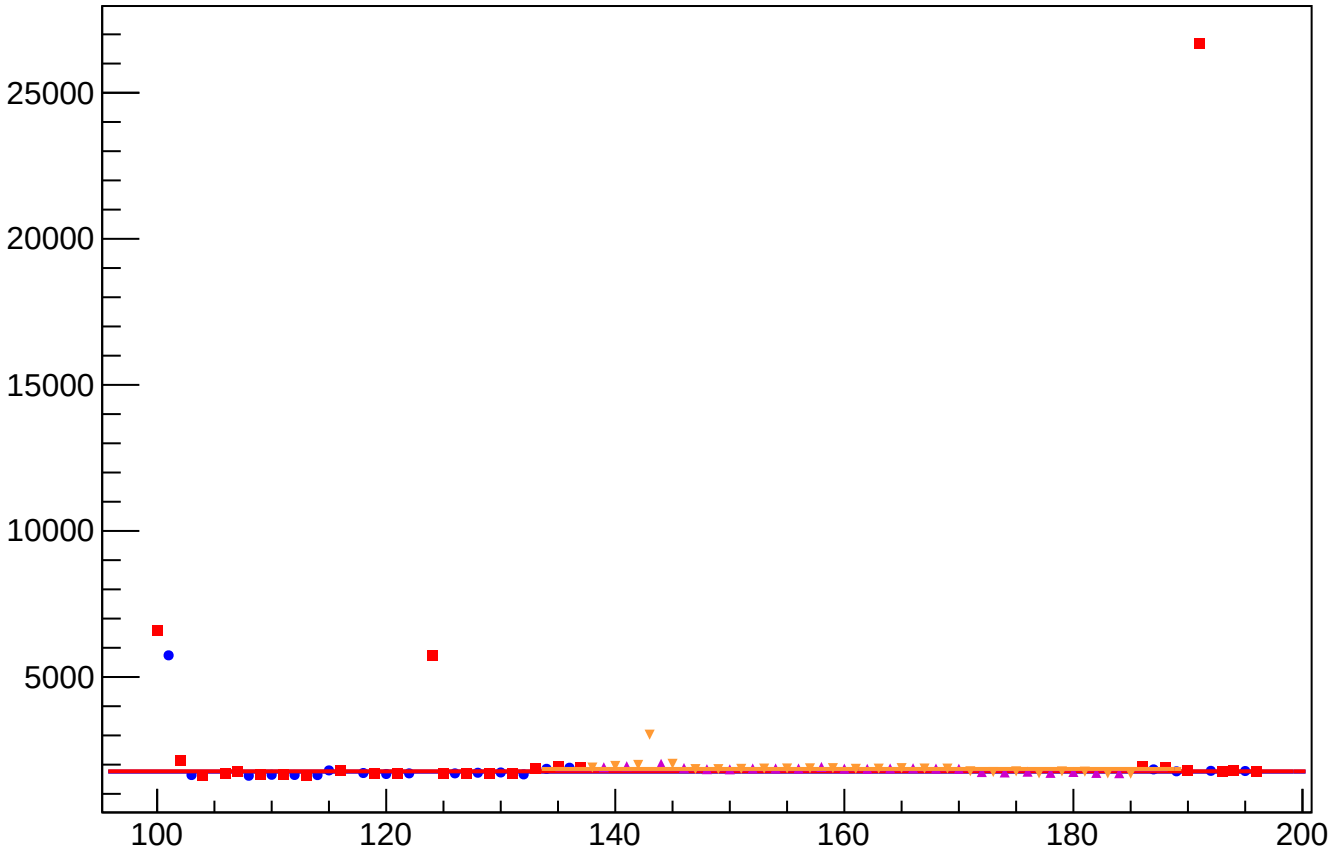
Left: 397.741+/-301.295 $\chi^2$/NDF: 77.9/47

Right: 192.297+/-387.585 $\chi^2$/NDF: 30.5/45

In: -84.756+/-343.623 $\chi^2$/NDF:44.9/42

Out: 693.140+/-329.627 $\chi^2$/NDF:61.0/50

All: 320.356+/-237.876 $\chi^2$/NDF: 108.6/93




Right In: 1759.258+/-0.405 $\chi^2$/NDF: 671455.2/19

Left Out: 1852.534+/-0.299 $\chi^2$/NDF:321038.9/24

Right Out: 1772.131+/-0.372 $\chi^2$/NDF: 629474.9/25

Left In: 1838.528+/-0.304 $\chi^2$/NDF:68478.0/22

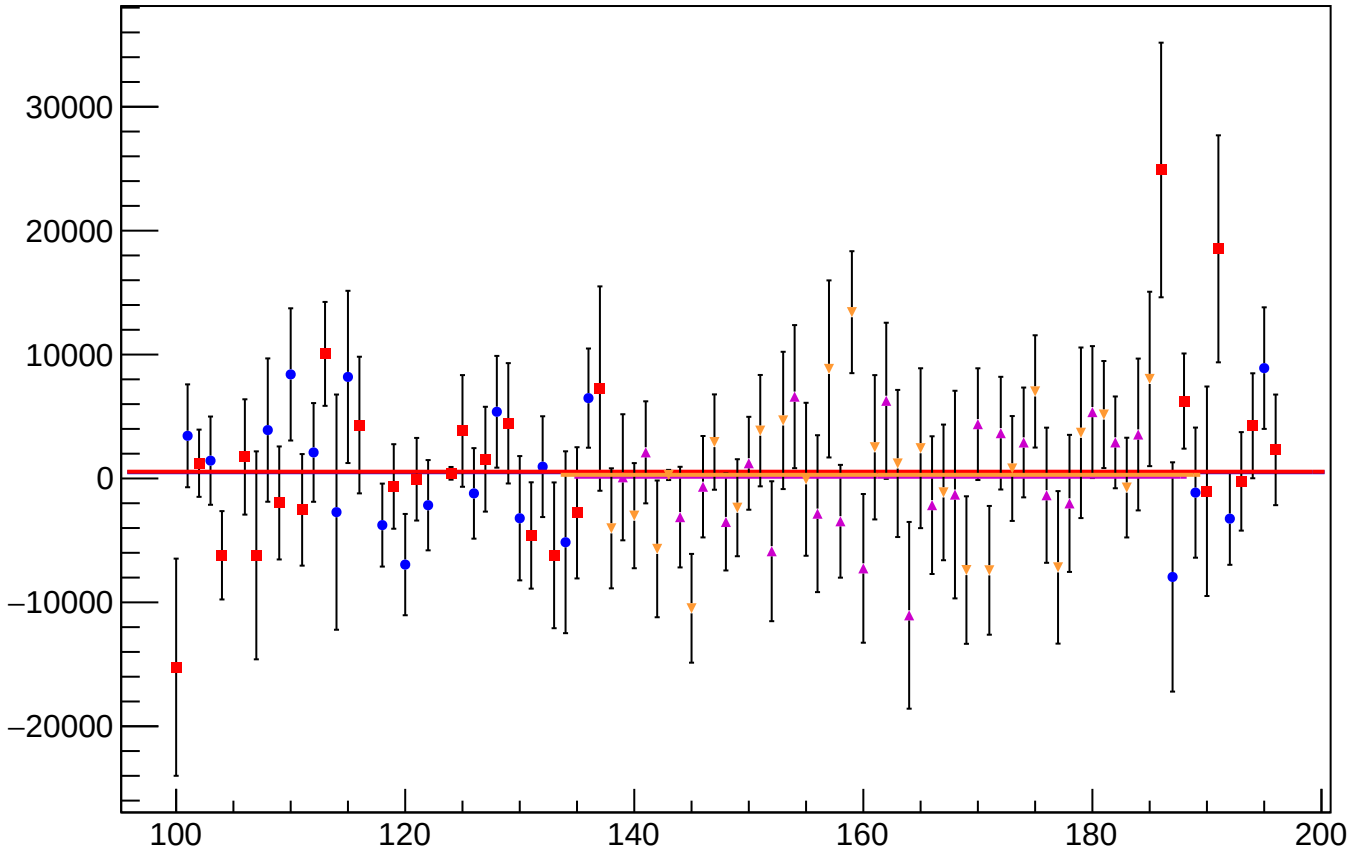
Left: 1845.648+/-0.213 $\chi^2$/NDF: 390597.1/47

Right: 1766.242+/-0.274 $\chi^2$/NDF: 1301479.2/45

In: 1809.951+/-0.243 $\chi^2$/NDF:764471.2/42

Out: 1820.959+/-0.233 $\chi^2$/NDF:978946.5/50

All: 1815.689+/-0.168 $\chi^2$/NDF: 1744487.7/93




Right In: 503.979+/-1006.152 $\chi^2$/NDF: 19.7/19

Left Out: 295.308+/-379.951 $\chi^2$/NDF:30.0/24

Right Out: 545.344+/-446.245 $\chi^2$/NDF: 31.9/25

Left In: 138.272+/-1022.940 $\chi^2$/NDF:13.9/22

Left: 276.270+/-356.175 $\chi^2$/NDF: 43.9/47

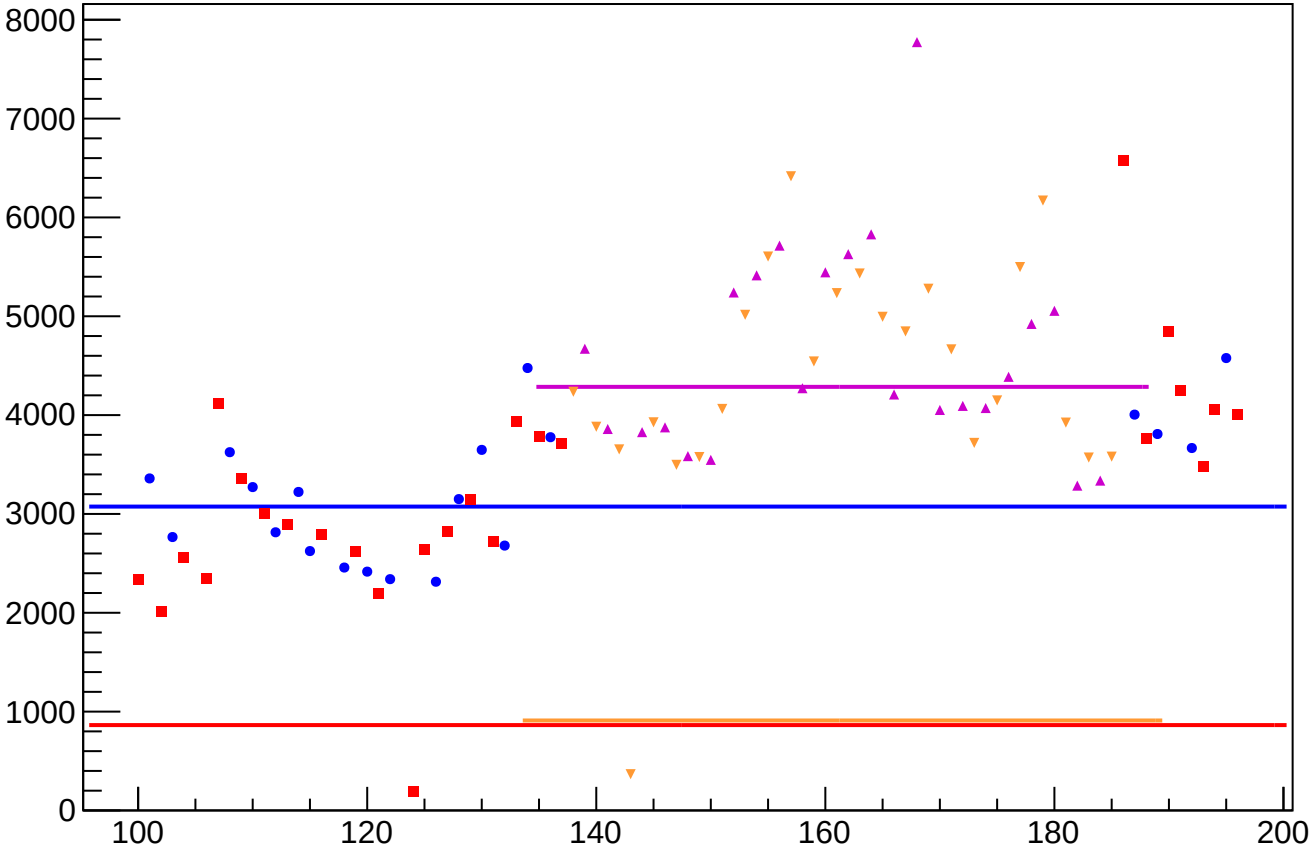
Right: 538.544+/-407.924 $\chi^2$/NDF: 51.7/45

In: 324.151+/-717.319 $\chi^2$/NDF:33.7/42

Out: 400.391+/-289.294 $\chi^2$/NDF:62.1/50

All: 389.726+/-268.296 $\chi^2$/NDF: 95.8/93

asym_atr1l2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3074.471+/-0.711 $\chi^2$/NDF: 827714.5/19

Left Out: 910.253+/-0.269 $\chi^2$/NDF:26772969.1/24

Right Out: 863.716+/-0.316 $\chi^2$/NDF: 15871973.2/25

Left In: 4285.828+/-0.723 $\chi^2$/NDF:1327963.4/22

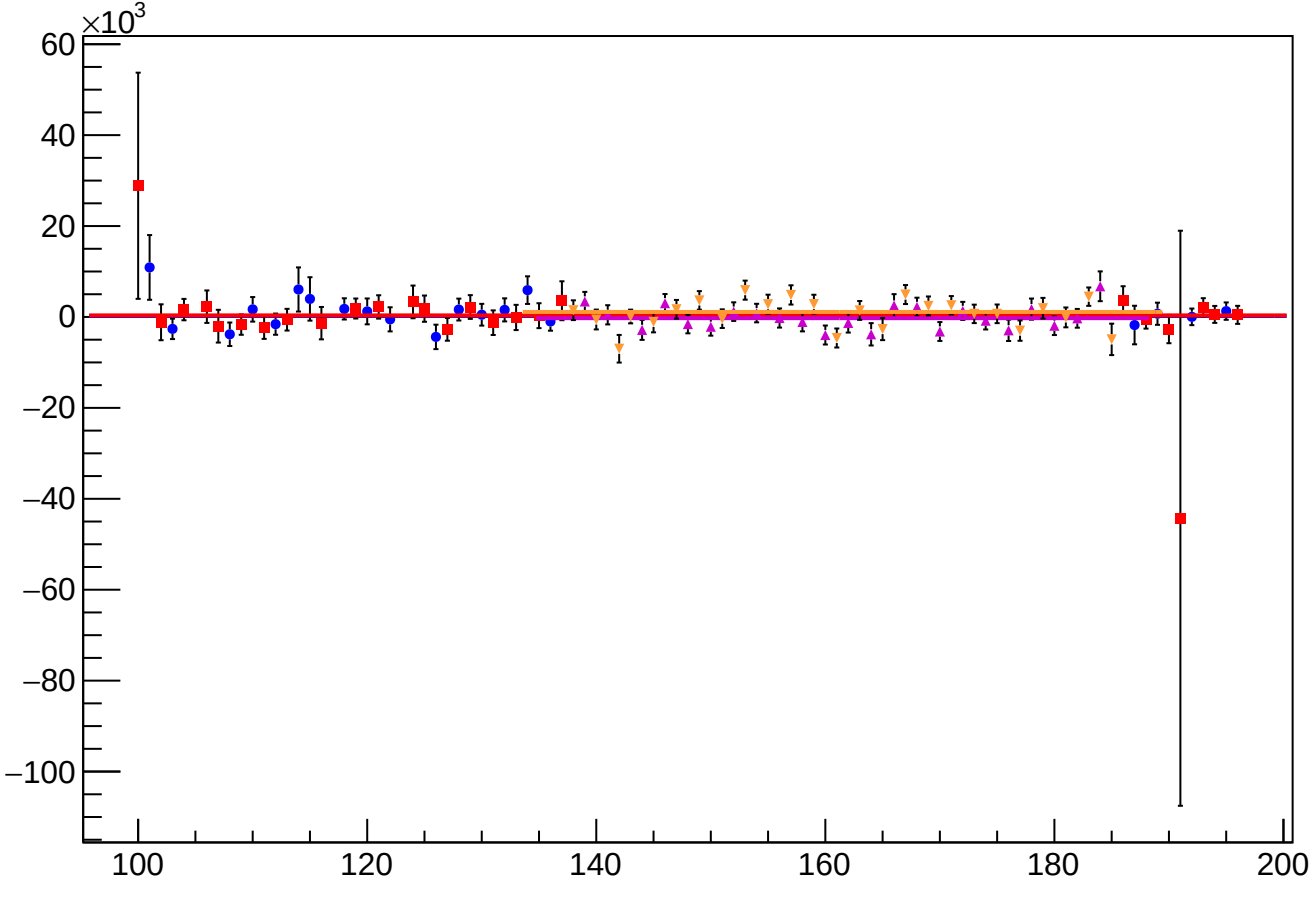
Left: 1319.491+/-0.252 $\chi^2$/NDF: 47238971.3/47

Right: 1227.106+/-0.288 $\chi^2$/NDF: 24768251.1/45

In: 3670.128+/-0.507 $\chi^2$/NDF:3581188.0/42

Out: 890.695+/-0.205 $\chi^2$/NDF:42657552.0/50

All: 1279.526+/-0.190 $\chi^2$/NDF: 72065429.4/9




Right In: 224.339+/-575.951 $\chi^2$/NDF: 17.9/19

Left Out: 1103.308+/-425.320 $\chi^2$/NDF:44.8/24

Right Out: 339.590+/-527.177 $\chi^2$/NDF: 13.4/25

Left In: -264.609+/-445.353 $\chi^2$/NDF:27.7/22

Left: 450.807+/-307.585 $\chi^2$/NDF: 77.4/47

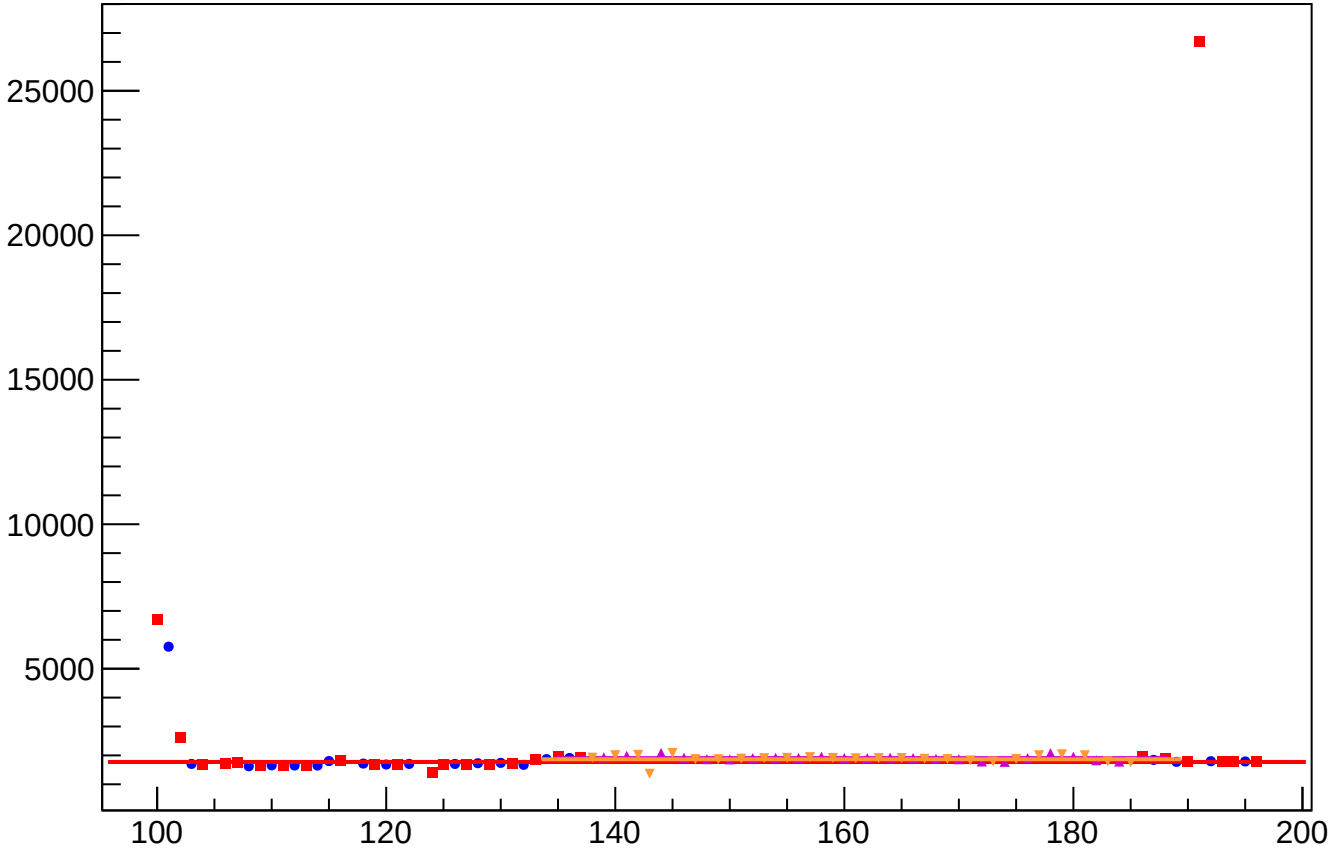
Right: 287.050+/-388.872 $\chi^2$/NDF: 31.3/45

In: -81.653+/-352.312 $\chi^2$/NDF:46.0/42

Out: 802.195+/-331.020 $\chi^2$/NDF:59.5/50

All: 387.784+/-241.243 $\chi^2$/NDF: 108.9/93

# dit_asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 1770.583+/-0.407 $\chi^2$/NDF: 669315.0/19

Left Out: 1864.841+/-0.301 $\chi^2$/NDF:294712.1/24

Right Out: 1773.892+/-0.372 $\chi^2$/NDF: 560738.6/25

Left In: 1905.628+/-0.315 $\chi^2$/NDF:52781.7/22

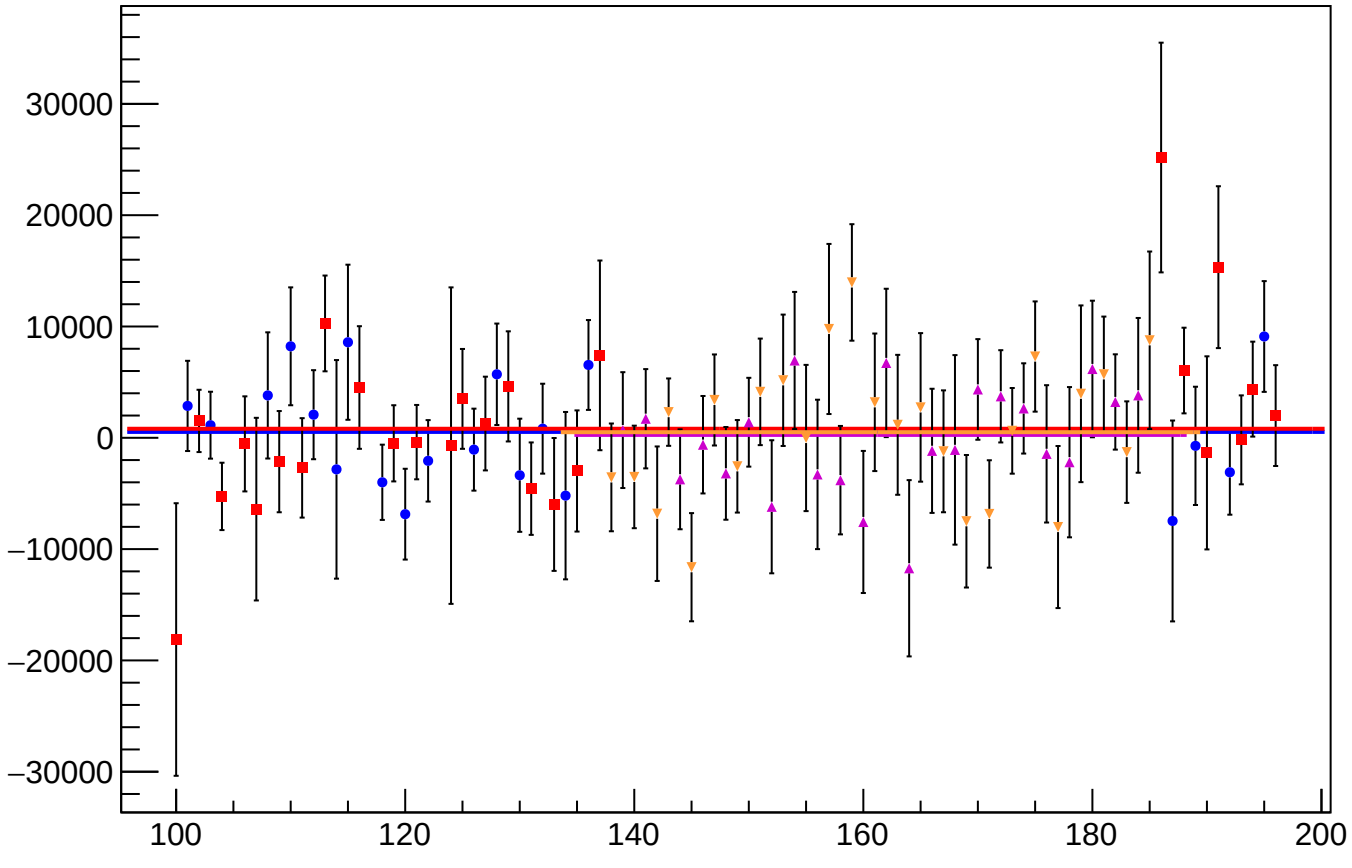
Left: 1884.296+/-0.217 $\chi^2$/NDF: 356267.0/47

Right: 1772.387+/-0.275 $\chi^2$/NDF: 1230089.6/45

In: 1855.096+/-0.249 $\chi^2$/NDF:790907.7/42

Out: 1828.901+/-0.234 $\chi^2$/NDF:891589.6/50

All: 1841.173+/-0.171 $\chi^2$/NDF: 1688374.0/93




Right In: 529.084+/-994.135 $\chi^2$/NDF: 19.6/19

Left Out: 504.261+/-1021.684 $\chi^2$/NDF:30.1/24

Right Out: 812.055+/-899.944 $\chi^2$/NDF: 31.3/25

Left In: 261.050+/-1081.402 $\chi^2$/NDF:13.6/22

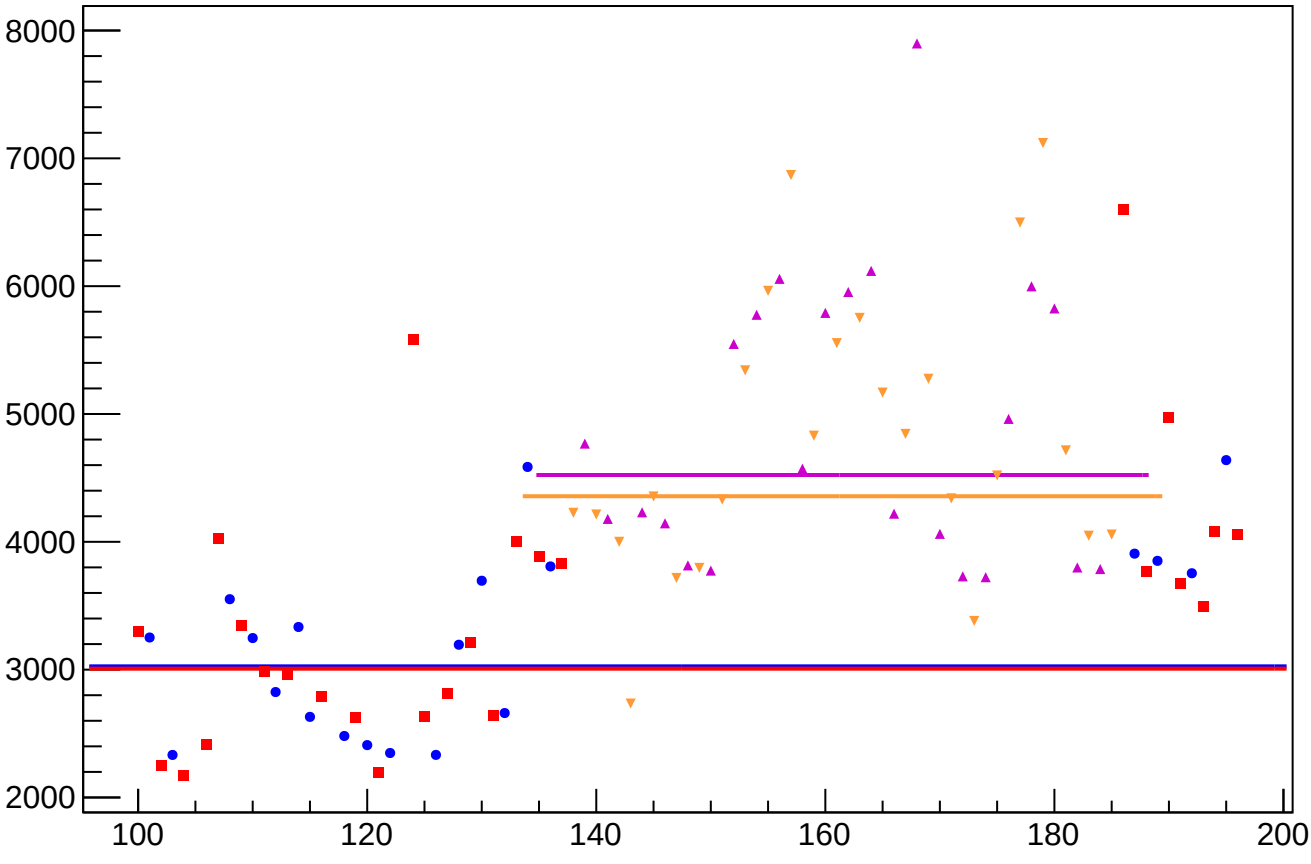
Left: 389.556+/-742.654 $\chi^2$/NDF: 43.7/47

Right: 684.607+/-667.177 $\chi^2$/NDF: 50.9/45

In: 406.317+/-731.869 $\chi^2$/NDF:33.2/42

Out: 677.580+/-675.317 $\chi^2$/NDF:61.4/50

All: 552.832+/-496.311 $\chi^2$/NDF: 94.7/93




Right In: 3025.809+/-0.703 $\chi^2$/NDF: 949073.4/19

Left Out: 4356.643+/-0.722 $\chi^2$/NDF:1912322.9/24

Right Out: 3007.754+/-0.636 $\chi^2$/NDF: 1460523.4/25

Left In: 4522.787+/-0.765 $\chi^2$/NDF:1434008.9/22

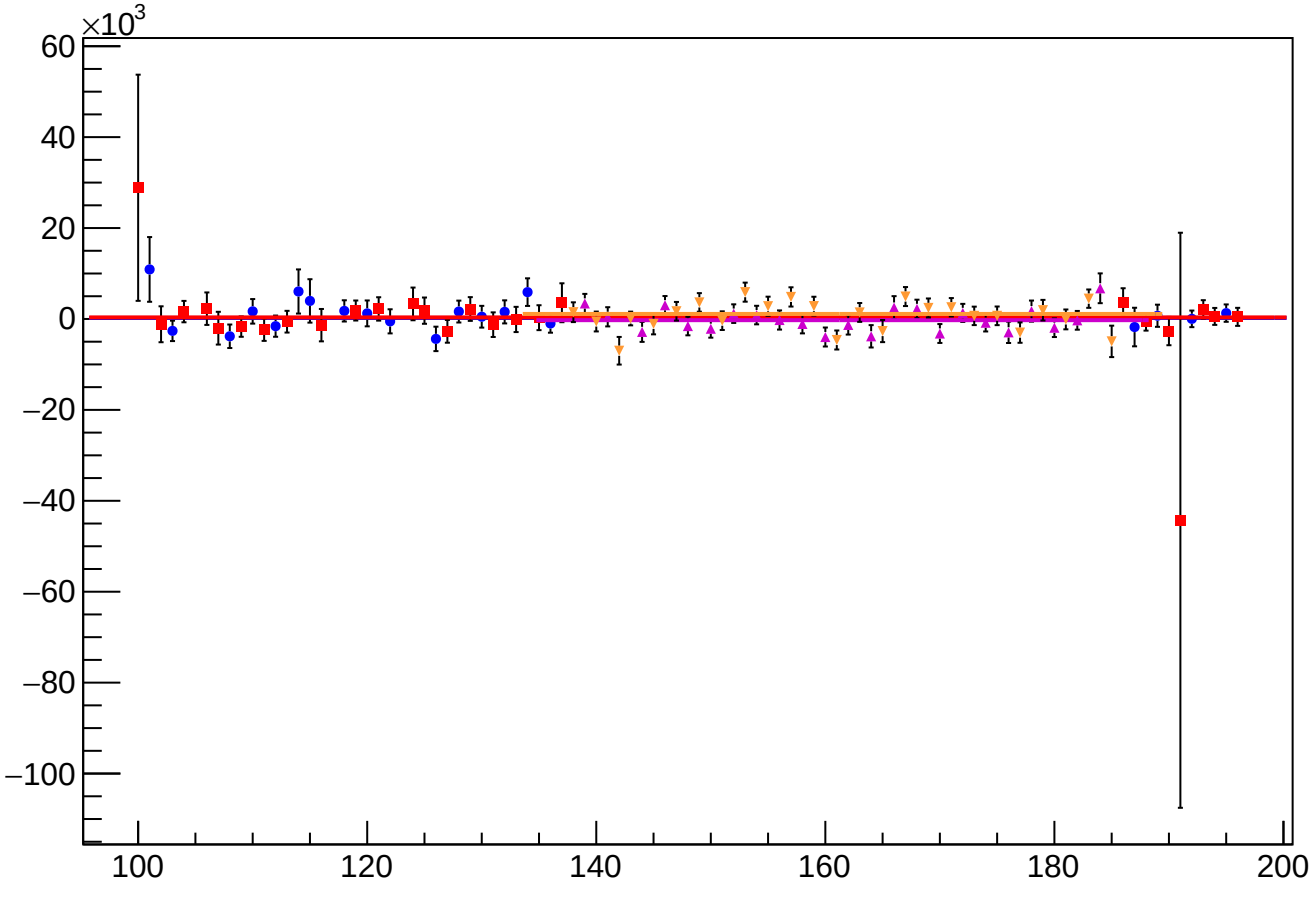
Left: 4435.001+/-0.525 $\chi^2$/NDF: 3371275.6/47

Right: 3015.886+/-0.472 $\chi^2$/NDF: 2409959.4/45

In: 3711.467+/-0.518 $\chi^2$/NDF:4460210.1/42

Out: 3597.085+/-0.478 $\chi^2$/NDF:5335910.4/50

All: 3649.687+/-0.351 $\chi^2$/NDF: 9822506.8/93




Right In: 224.340+/-575.951 $\chi^2$/NDF: 17.9/19

Left Out: 1103.310+/-425.321 $\chi^2$/NDF:44.8/24

Right Out: 339.586+/-527.177 $\chi^2$/NDF: 13.4/25

Left In: -264.609+/-445.354 $\chi^2$/NDF:27.7/22

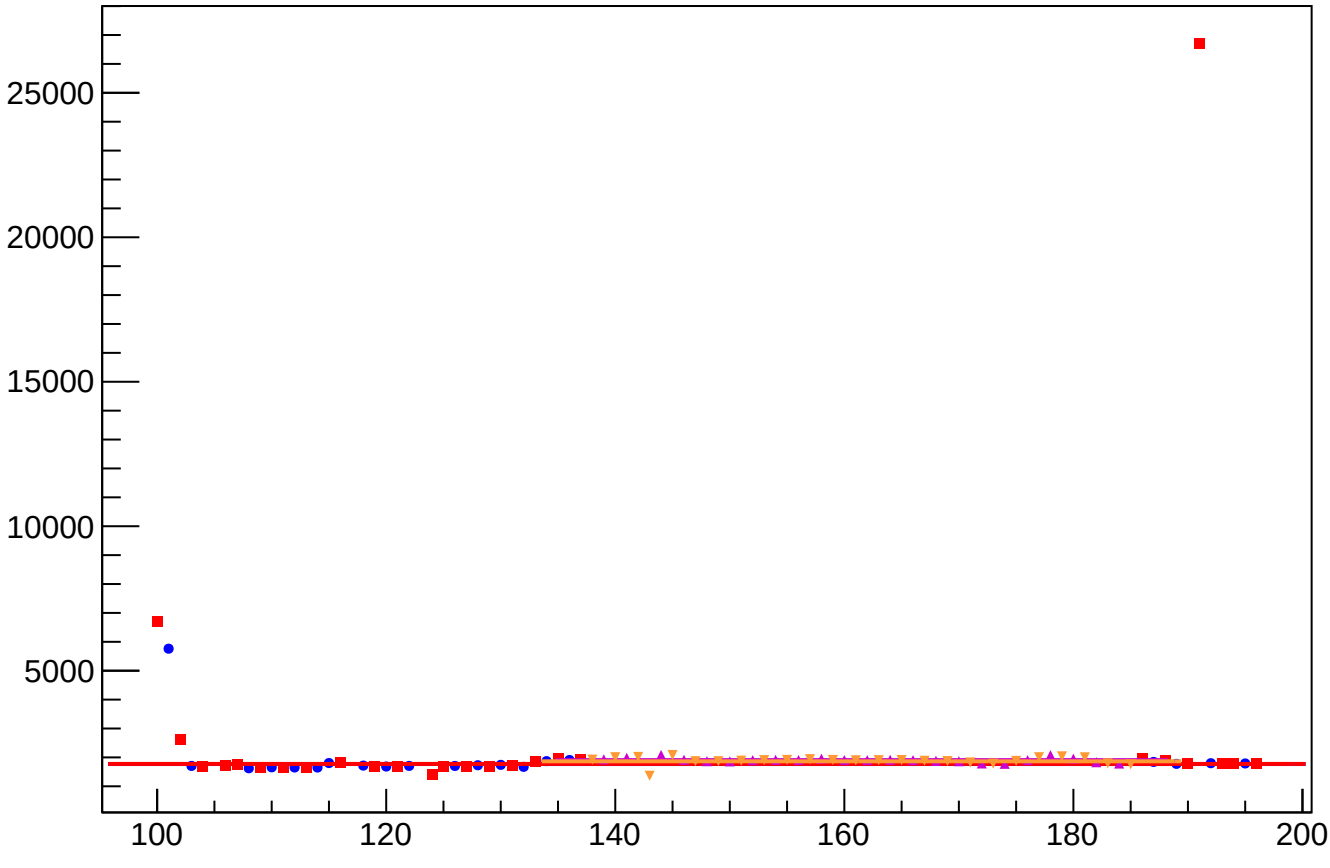
Left: 450.808+/-307.585 $\chi^2$/NDF: 77.4/47

Right: 287.049+/-388.872 $\chi^2$/NDF: 31.3/45

In: -81.652+/-352.313 $\chi^2$/NDF:46.0/42

Out: 802.194+/-331.020 $\chi^2$/NDF:59.5/50

All: 387.784+/-241.243 $\chi^2$/NDF: 108.9/93




Right In: 1770.583+/-0.407 $\chi^2$/NDF: 669315.0/19

Left Out: 1864.842+/-0.301 $\chi^2$/NDF:294715.4/24

Right Out: 1773.892+/-0.372 $\chi^2$/NDF: 560738.5/25

Left In: 1905.629+/-0.315 $\chi^2$/NDF:52783.9/22

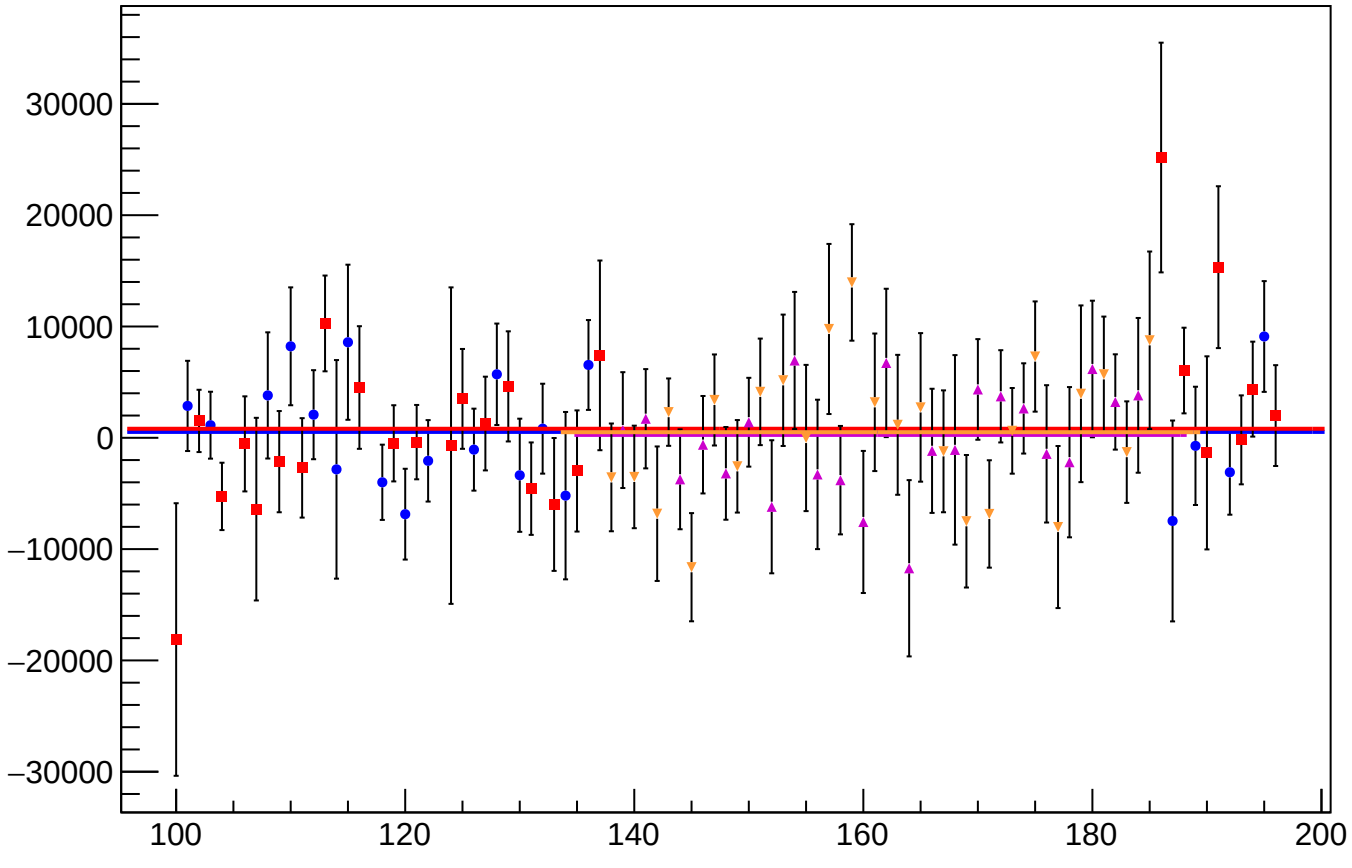
Left: 1884.297+/-0.217 $\chi^2$/NDF: 356272.6/47

Right: 1772.387+/-0.275 $\chi^2$/NDF: 1230089.6/45

In: 1855.097+/-0.249 $\chi^2$/NDF:790911.0/42

Out: 1828.901+/-0.234 $\chi^2$/NDF:891593.7/50

All: 1841.174+/-0.171 $\chi^2$/NDF: 1688381.5/93




Right In: 529.079+/-994.133 $\chi^2$/NDF: 19.6/19

Left Out: 504.265+/-1021.686 $\chi^2$/NDF:30.1/24

Right Out: 812.052+/-899.943 $\chi^2$/NDF: 31.3/25

Left In: 261.051+/-1081.404 $\chi^2$/NDF:13.6/22

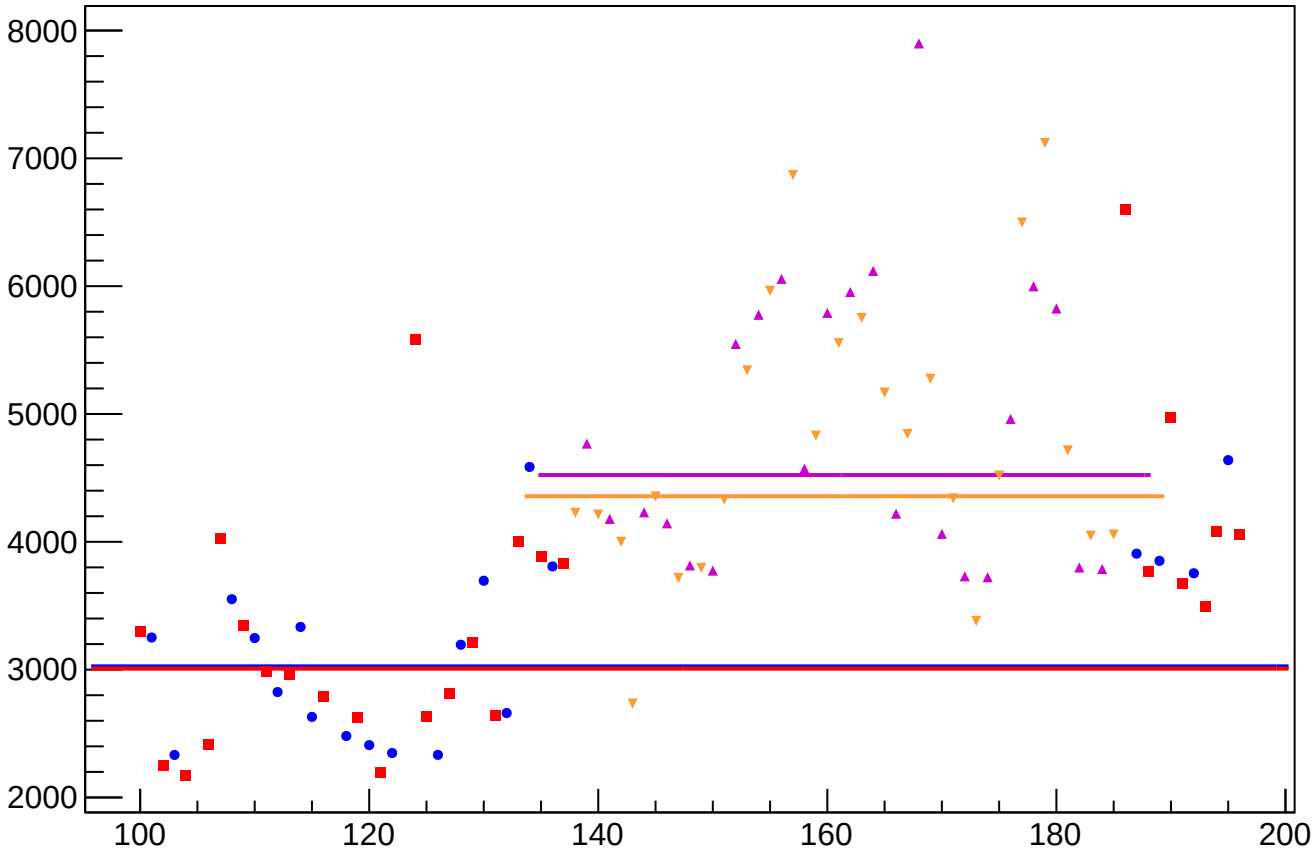
Left: 389.559+/-742.655 $\chi^2$/NDF: 43.7/47

Right: 684.603+/-667.176 $\chi^2$/NDF: 50.9/45

In: 406.315+/-731.869 $\chi^2$/NDF:33.2/42

Out: 677.580+/-675.317 $\chi^2$/NDF:61.4/50

All: 552.831+/-496.311 $\chi^2$/NDF: 94.7/93




Right In: 3025.802+/-0.703 $\chi^2$/NDF: 949087.1/19

Left Out: 4356.650+/-0.722 $\chi^2$/NDF:1912327.4/24

Right Out: 3007.750+/-0.636 $\chi^2$/NDF: 1460529.4/25

Left In: 4522.795+/-0.765 $\chi^2$/NDF:1434009.9/22

Left: 4435.009+/-0.525 $\chi^2$/NDF: 3371281.4/47

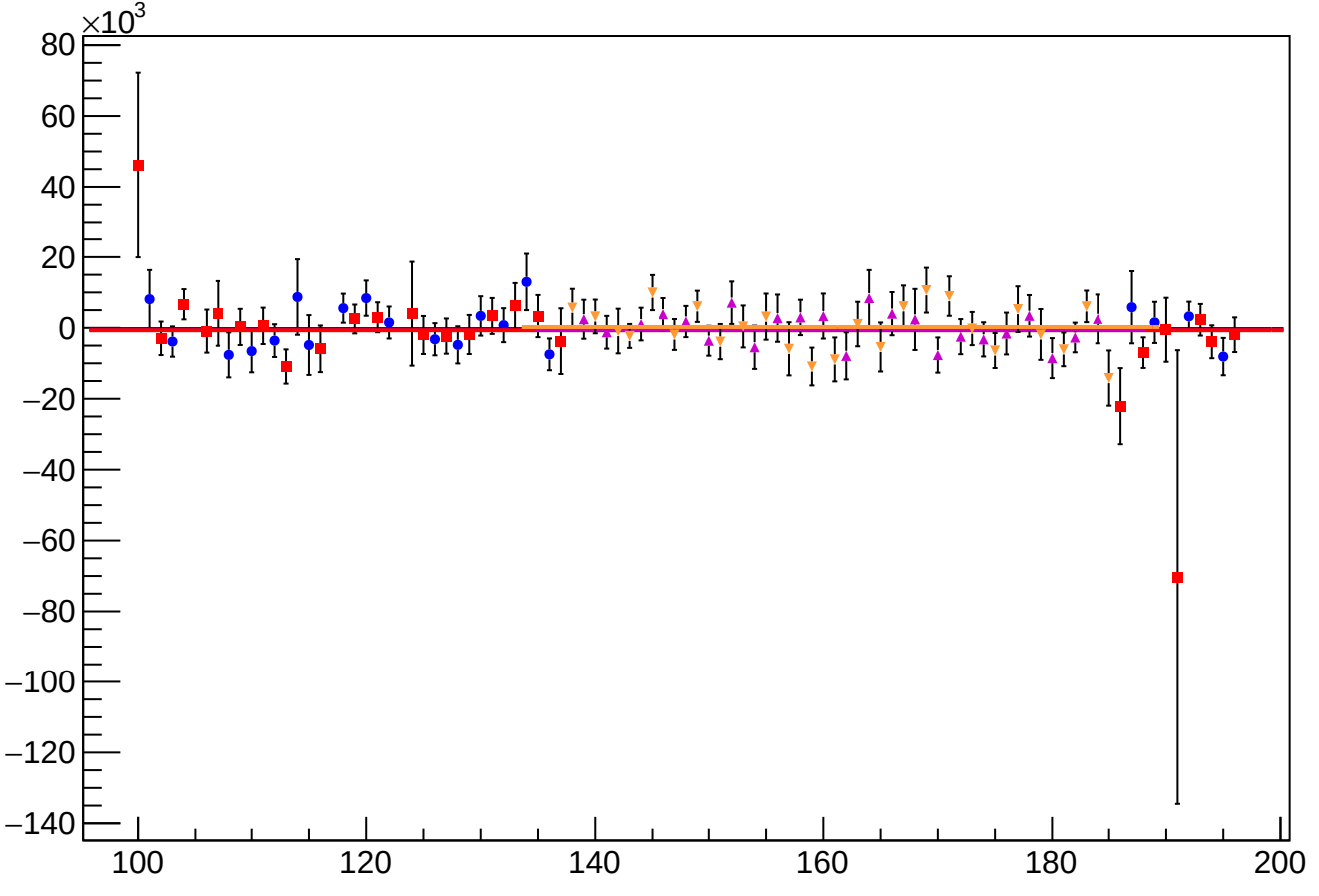
Right: 3015.880+/-0.472 $\chi^2$/NDF: 2409978.9/45

In: 3711.465+/-0.518 $\chi^2$/NDF:4460264.3/42

Out: 3597.083+/-0.478 $\chi^2$/NDF:5335952.0/50

All: 3649.685+/-0.351 $\chi^2$/NDF: 9822601.9/93

# asym_atr1l2_dd_mean vs Slug, Sign Corrected




Right In: -344.279+/-1194.240 $\chi^2$/NDF: 21.3/19

Left Out: 239.929+/-1064.647 $\chi^2$/NDF:32.2/24

Right Out: -666.280+/-1099.039 $\chi^2$/NDF: 24.2/25

Left In: -397.881+/-1121.323 $\chi^2$/NDF:14.2/22

Left: -62.451+/-772.078 $\chi^2$/NDF: 46.6/47

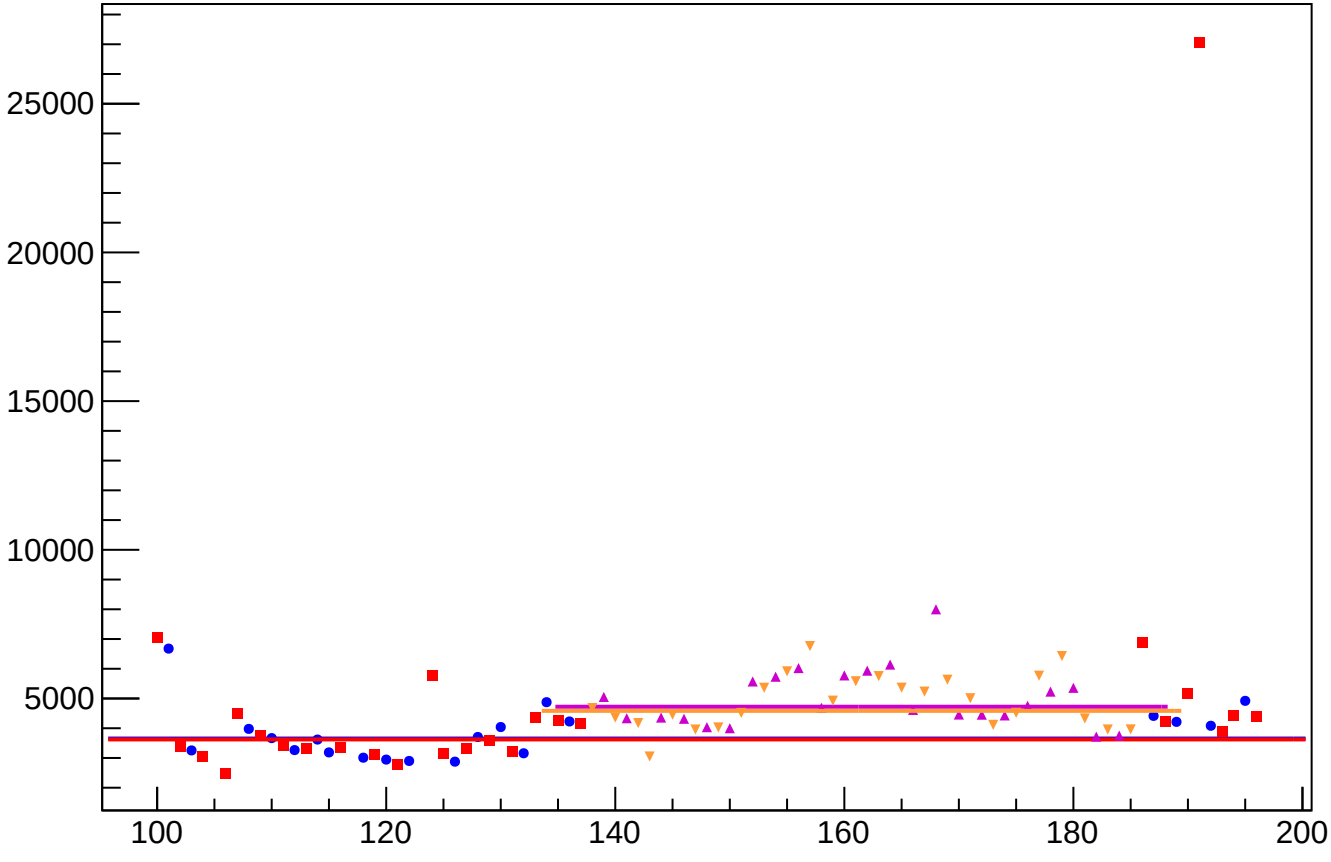
Right: -518.624+/-808.703 $\chi^2$/NDF: 45.5/45

In: -372.766+/-817.458 $\chi^2$/NDF:35.5/42

Out: -198.775+/-764.689 $\chi^2$/NDF:56.7/50

All: -279.974+/-558.441 $\chi^2$/NDF: 92.2/93

# asym_atr1l2_dd_rms vs Slug, Sign Corrected




Right In: 3652.953+/-0.844 $\chi^2$/NDF: 794569.6/19

Left Out: 4584.664+/-0.753 $\chi^2$/NDF:1311720.7/24

Right Out: 3623.673+/-0.769 $\chi^2$/NDF: 1140635.2/25

Left In: 4723.014+/-0.793 $\chi^2$/NDF:1016613.0/22

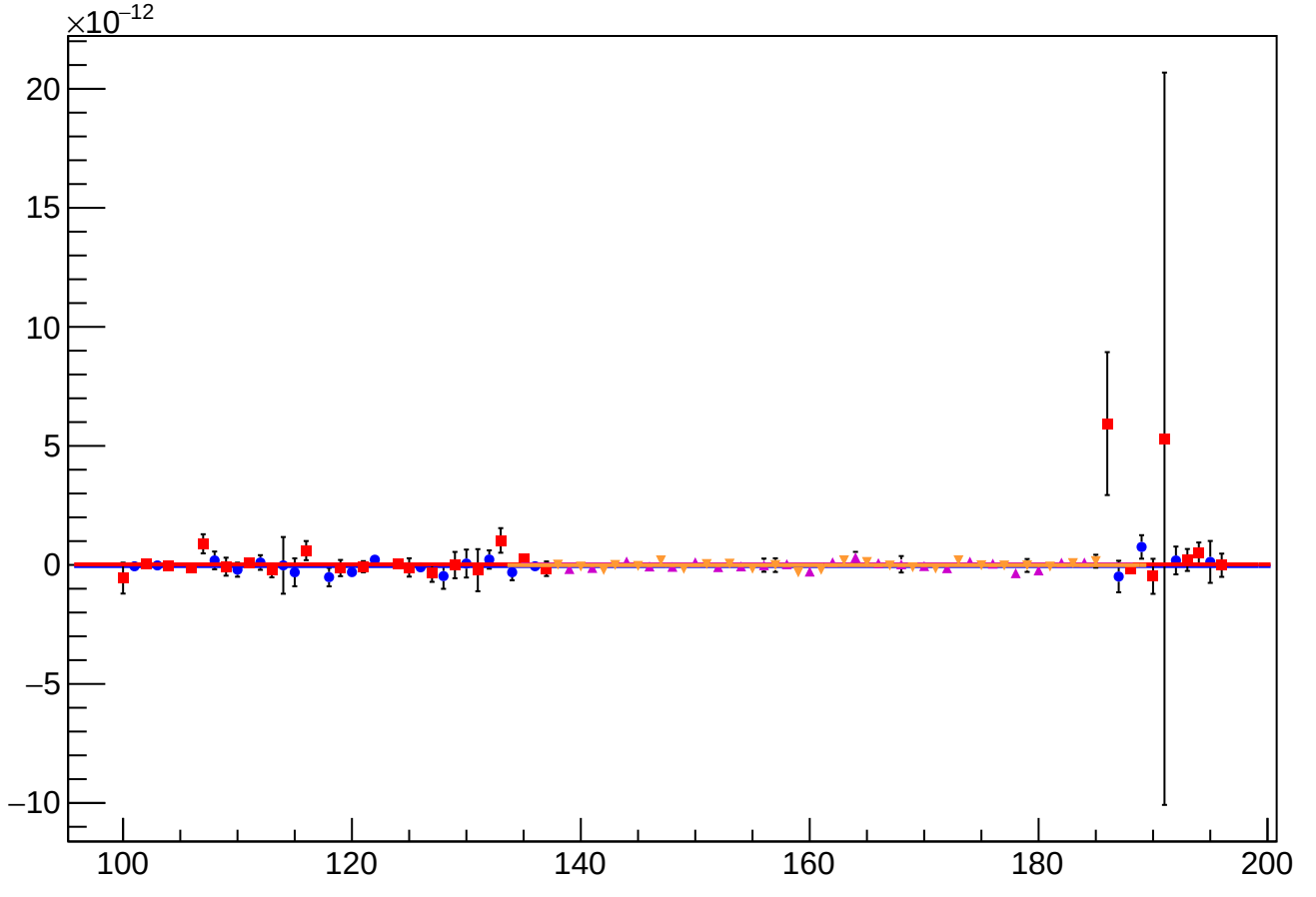
Left: 4650.254+/-0.546 $\chi^2$/NDF: 2344345.5/47

Right: 3636.948+/-0.569 $\chi^2$/NDF: 1935862.1/45

In: 4221.646+/-0.578 $\chi^2$/NDF:2664546.5/42

Out: 4114.418+/-0.538 $\chi^2$/NDF:3249731.8/50

All: 4164.188+/-0.394 $\chi^2$/NDF: 5932718.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.0/22

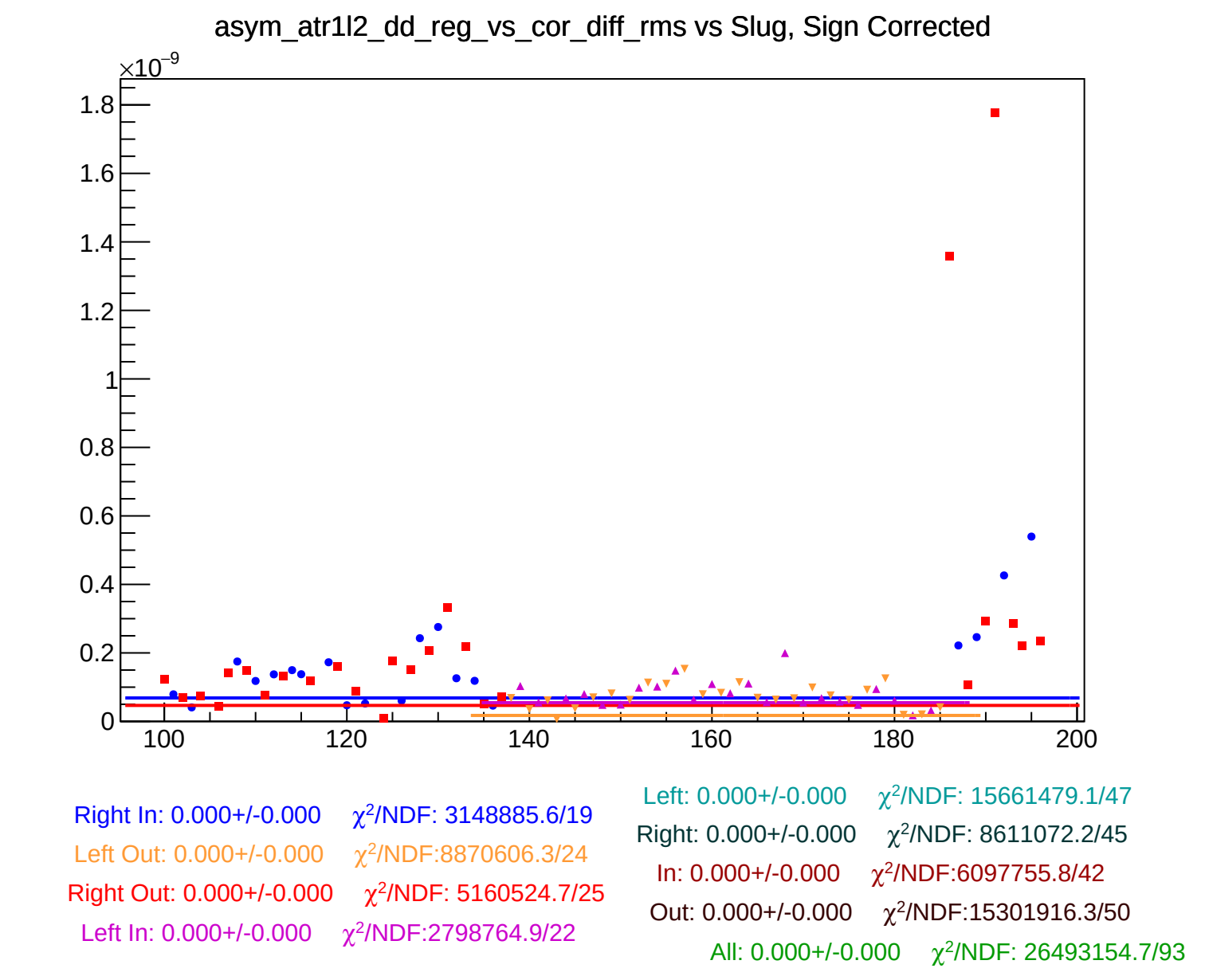
Left: -0.000+/-0.000 $\chi^2$/NDF: 49.7/47

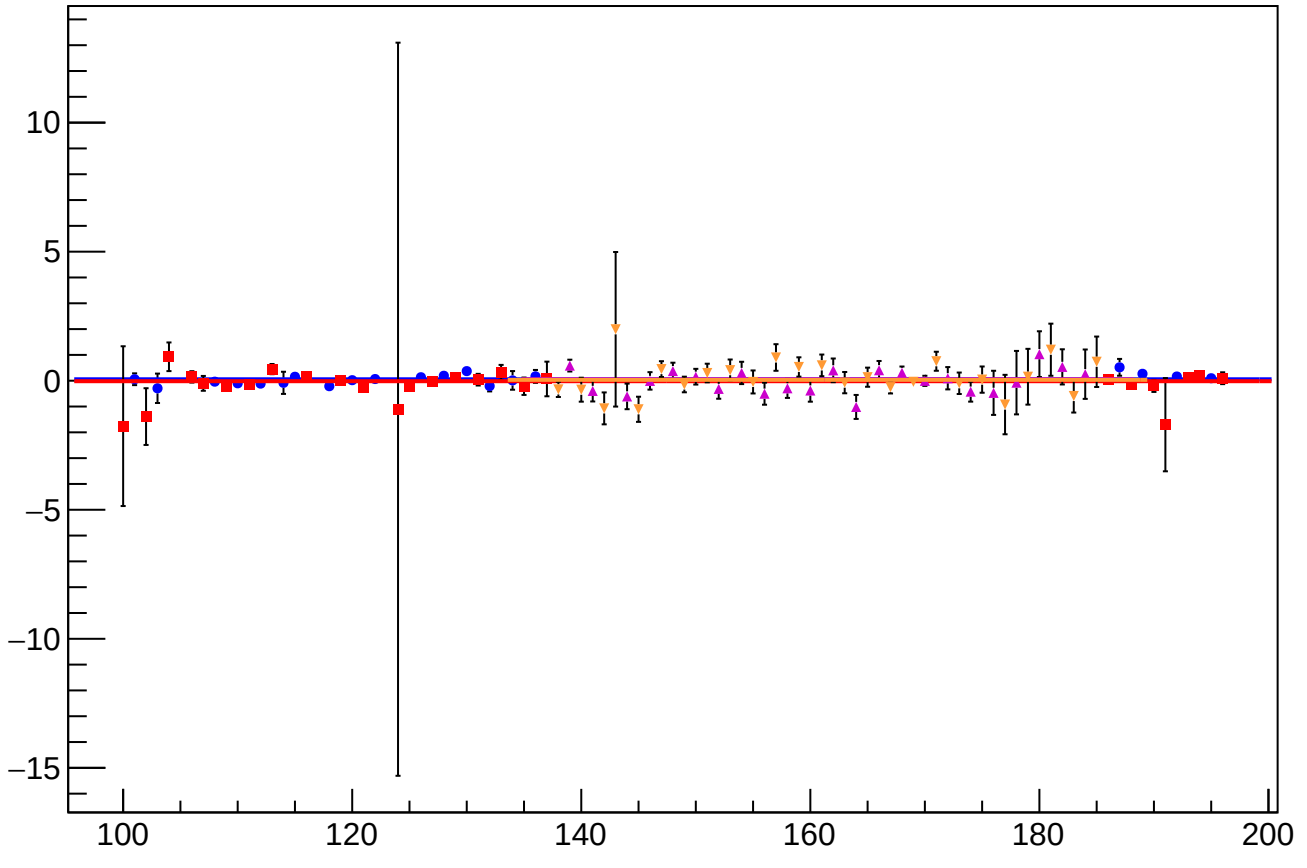
Right: -0.000+/-0.000 $\chi^2$/NDF: 38.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:39.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:48.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 87.9/93


asym_atr1l2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3148885.6/19
Left Out: 0.000+/-0.000 χ²/NDF:8870606.3/24
Right Out: 0.000+/-0.000 χ²/NDF: 5160524.7/25
Left In: 0.000+/-0.000 χ²/NDF:2798764.9/22
Left: 0.000+/-0.000 χ²/NDF: 15661479.1/47
Right: 0.000+/-0.000 χ²/NDF: 8611072.2/45
In: 0.000+/-0.000 χ²/NDF:6097755.8/42
Out: 0.000+/-0.000 χ²/NDF:15301916.3/50
All: 0.000+/-0.000 χ²/NDF: 26493154.7/93




Right In: 0.055+/-0.042 $\chi^2$/NDF: 16.7/19

Left Out: 0.034+/-0.078 $\chi^2$/NDF:30.5/24

Right Out: -0.019+/-0.036 $\chi^2$/NDF: 28.3/25

Left In: 0.056+/-0.077 $\chi^2$/NDF:26.1/22

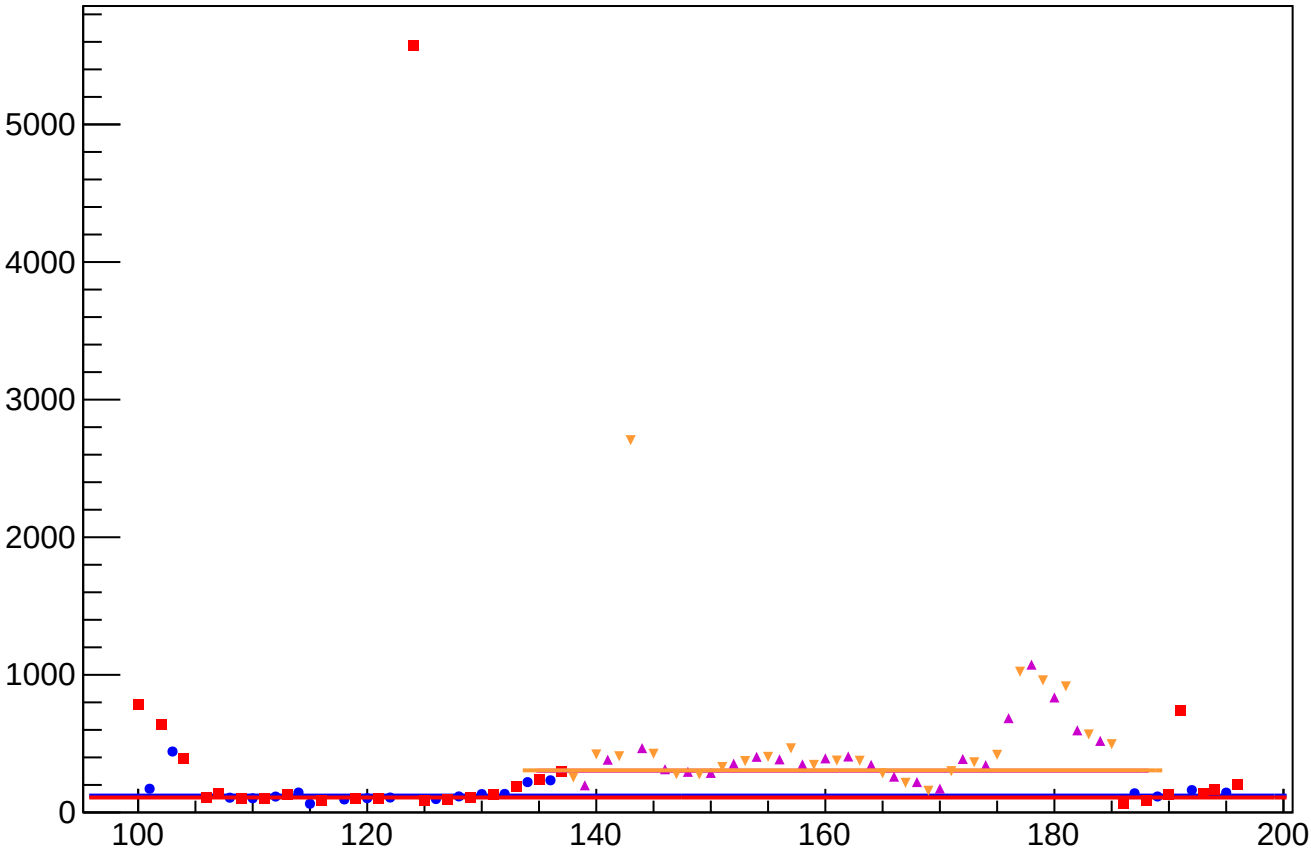
Left: 0.045+/-0.055 $\chi^2$/NDF: 56.5/47

Right: 0.012+/-0.027 $\chi^2$/NDF: 46.8/45

In: 0.056+/-0.037 $\chi^2$/NDF:42.7/42

Out: -0.010+/-0.033 $\chi^2$/NDF:59.2/50

All: 0.019+/-0.025 $\chi^2$/NDF: 103.6/93




Right In: 122.520+/-0.030 $\chi^2$/NDF: 1897016.0/19

Left Out: 305.950+/-0.055 $\chi^2$/NDF:6634928.0/24

Right Out: 108.790+/-0.026 $\chi^2$/NDF: 3551507.8/25

Left In: 303.278+/-0.055 $\chi^2$/NDF:4813442.3/22

Left: 304.603+/-0.039 $\chi^2$/NDF: 11449555.3/47

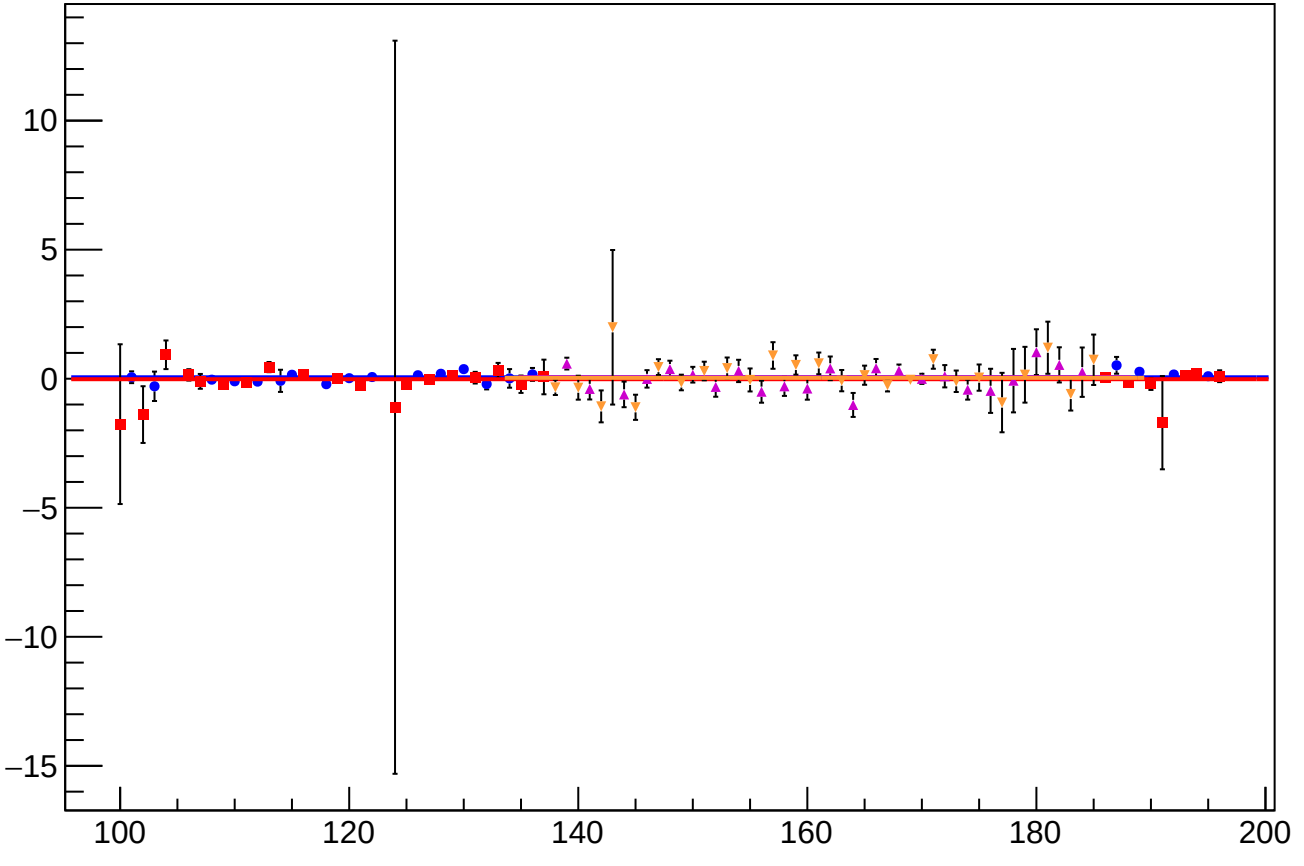
Right: 114.555+/-0.019 $\chi^2$/NDF: 5570076.4/45

In: 164.351+/-0.026 $\chi^2$/NDF:15114474.0/42

Out: 143.604+/-0.023 $\chi^2$/NDF:20725538.8/50

All: 152.666+/-0.017 $\chi^2$/NDF: 36190594.5/93

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.055+/-0.042 $\chi^2$/NDF: 16.7/19

Left Out: 0.034+/-0.078 $\chi^2$/NDF:30.5/24

Right Out: -0.019+/-0.036 $\chi^2$/NDF: 28.3/25

Left In: 0.056+/-0.077 $\chi^2$/NDF:26.1/22

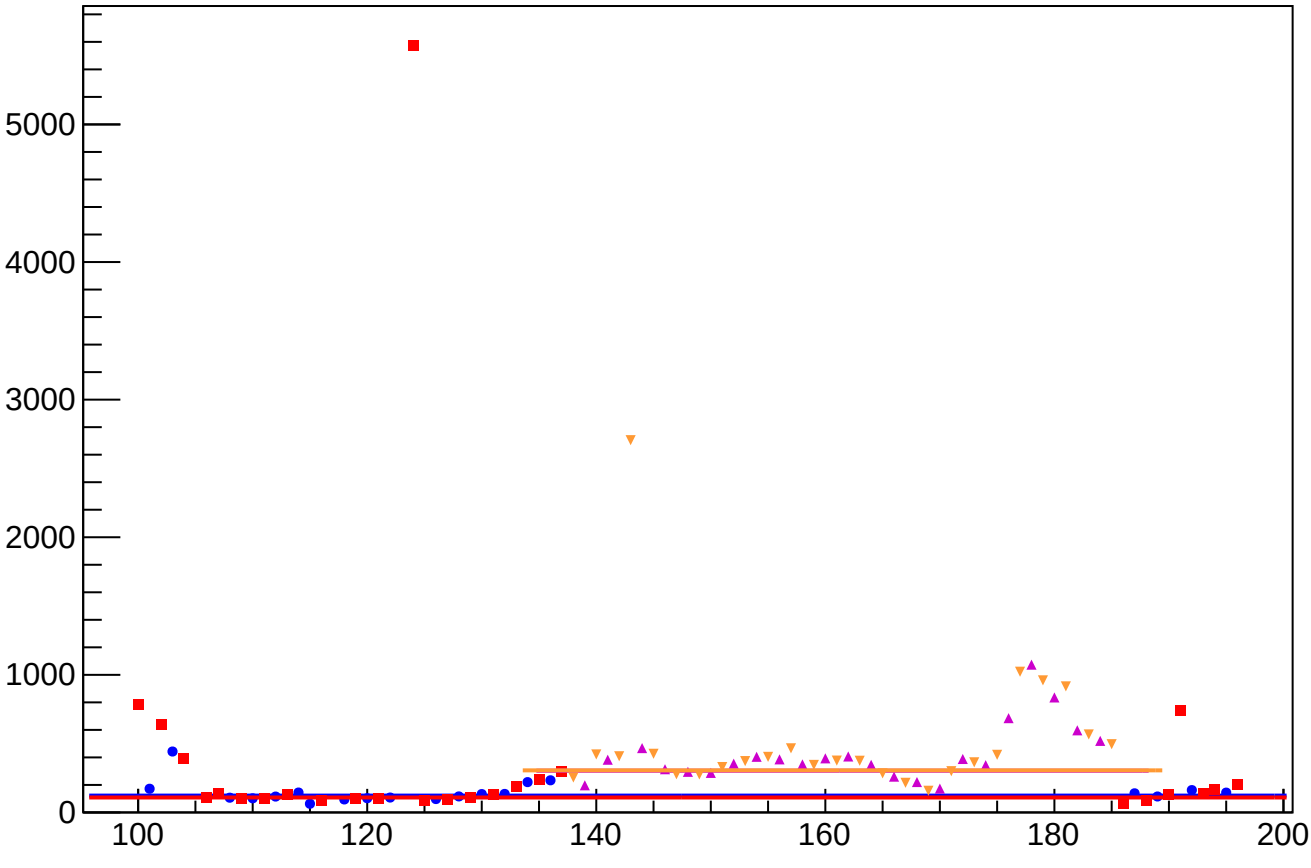
Left: 0.045+/-0.055 $\chi^2$/NDF: 56.5/47

Right: 0.012+/-0.027 $\chi^2$/NDF: 46.8/45

In: 0.056+/-0.037 $\chi^2$/NDF:42.7/42

Out: -0.010+/-0.033 $\chi^2$/NDF:59.2/50

All: 0.019+/-0.025 $\chi^2$/NDF: 103.6/93




Right In: 122.520+/-0.030 $\chi^2$/NDF: 1897016.0/19

Left Out: 305.950+/-0.055 $\chi^2$/NDF:6634928.0/24

Right Out: 108.790+/-0.026 $\chi^2$/NDF: 3551507.8/25

Left In: 303.278+/-0.055 $\chi^2$/NDF:4813442.3/22

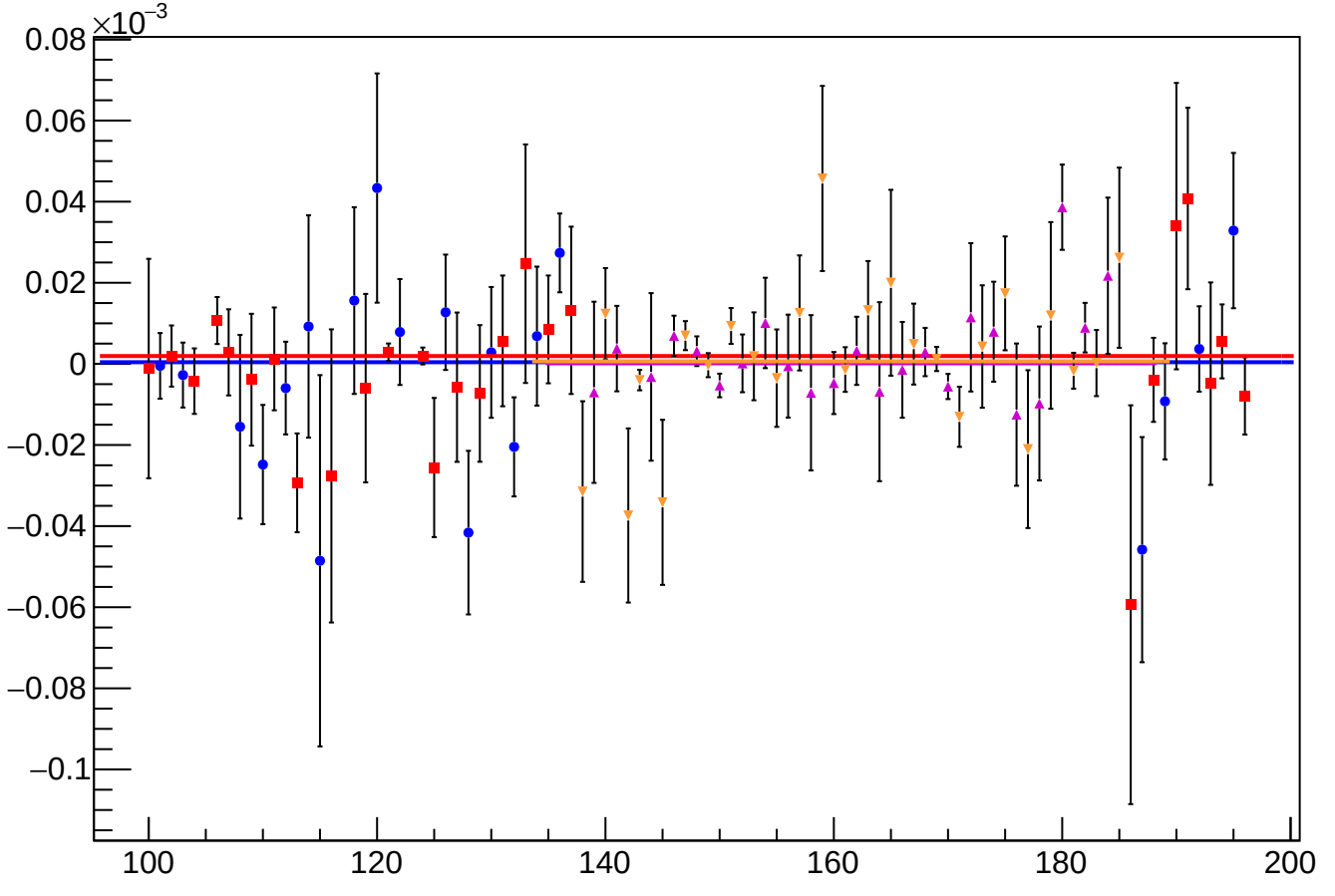
Left: 304.603+/-0.039 $\chi^2$/NDF: 11449555.3/47

Right: 114.555+/-0.019 $\chi^2$/NDF: 5570076.4/45

In: 164.351+/-0.026 $\chi^2$/NDF:15114474.0/42

Out: 143.604+/-0.023 $\chi^2$/NDF:20725538.8/50

All: 152.666+/-0.017 $\chi^2$/NDF: 36190594.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 30.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:34.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.8/22

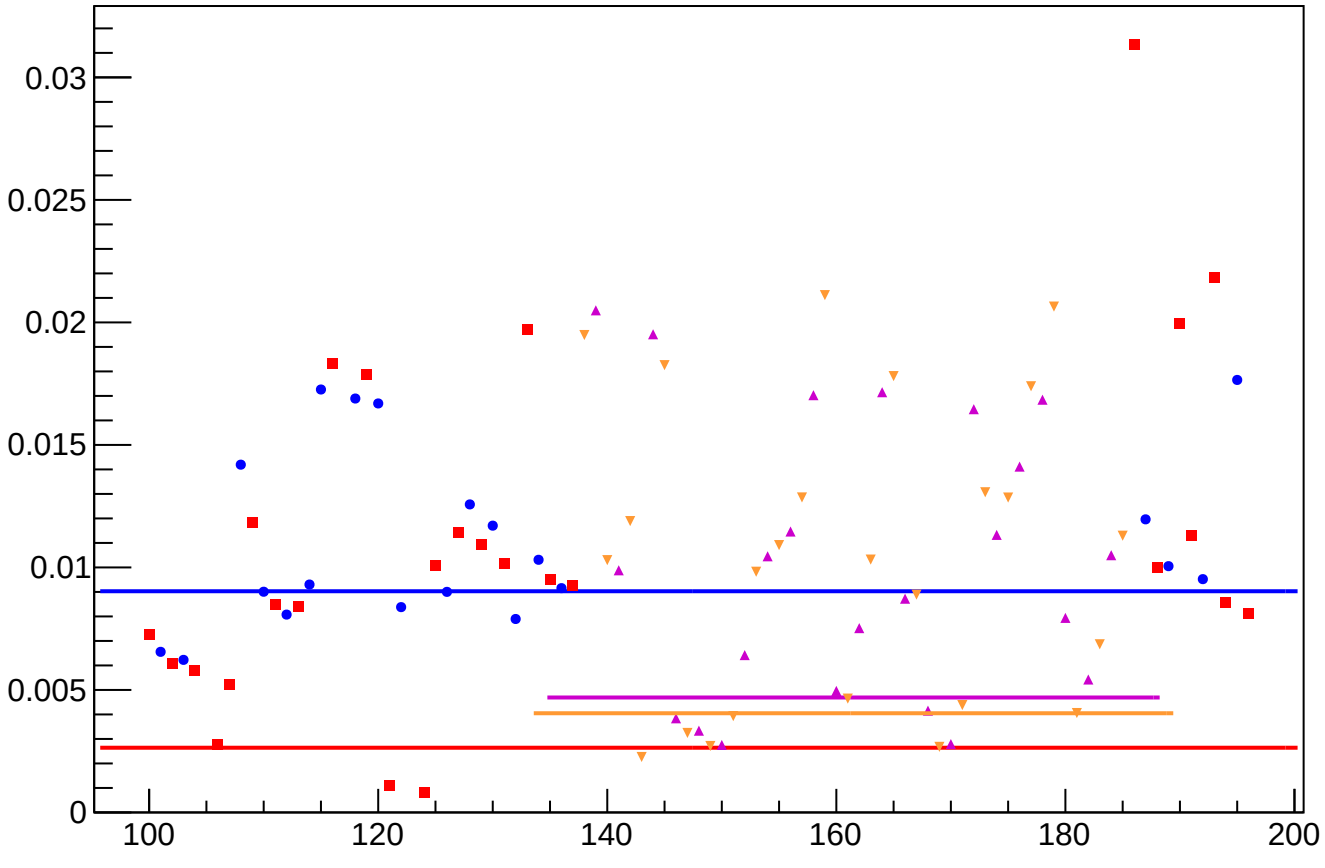
Left: 0.000+/-0.000 $\chi^2$/NDF: 64.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 52.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:60.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 117.6/93




Right In: 0.009+/-0.000 $\chi^2$/NDF: 1587875.6/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:13552895.5/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 14522351.7/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:10859759.8/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 24656660.1/47

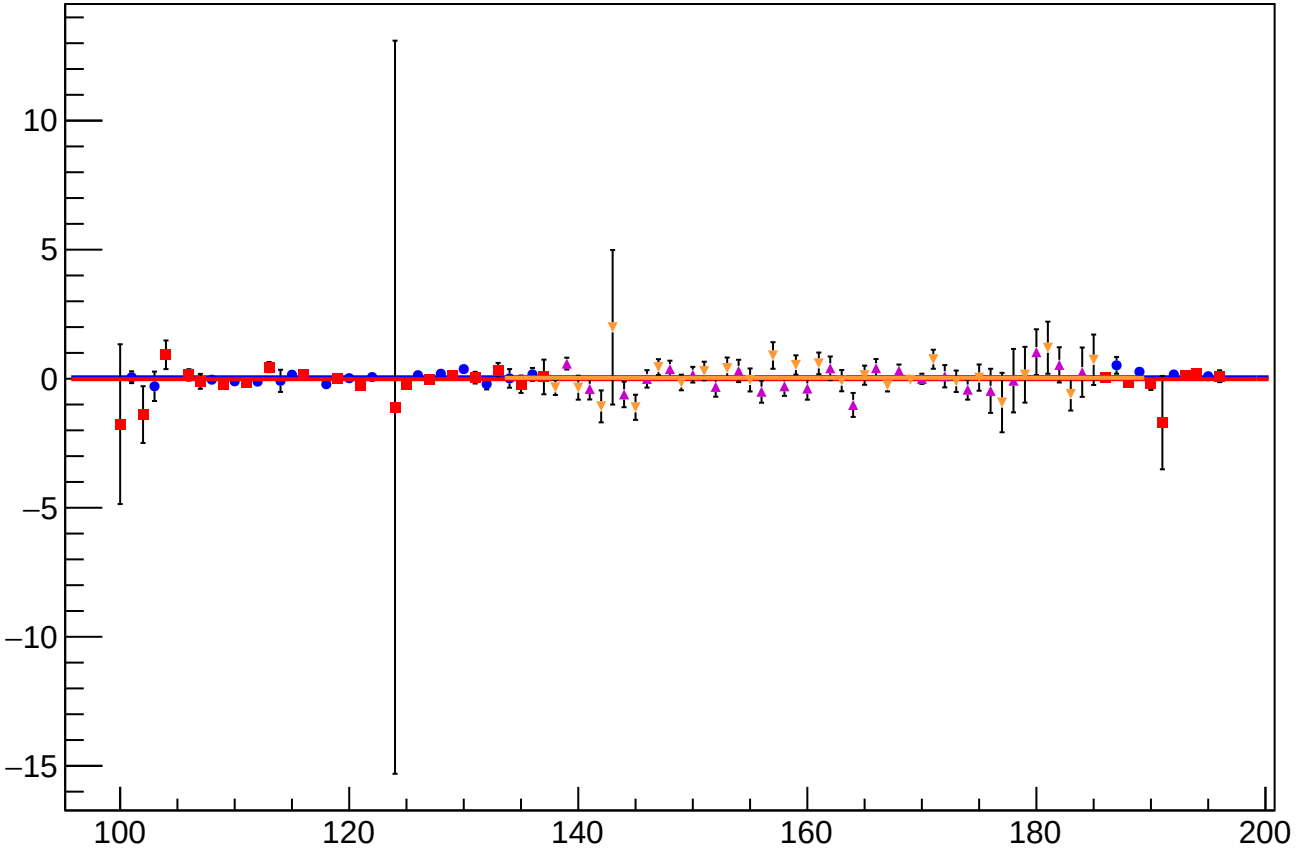
Right: 0.004+/-0.000 $\chi^2$/NDF: 23437660.3/45

In: 0.005+/-0.000 $\chi^2$/NDF:15741850.3/42

Out: 0.003+/-0.000 $\chi^2$/NDF:29352623.8/50

All: 0.004+/-0.000 $\chi^2$/NDF: 48549964.8/93

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.055+/-0.042 $\chi^2$/NDF: 16.7/19

Left Out: 0.034+/-0.078 $\chi^2$/NDF:30.5/24

Right Out: -0.019+/-0.036 $\chi^2$/NDF: 28.3/25

Left In: 0.056+/-0.077 $\chi^2$/NDF:26.0/22

Left: 0.045+/-0.055 $\chi^2$/NDF: 56.5/47

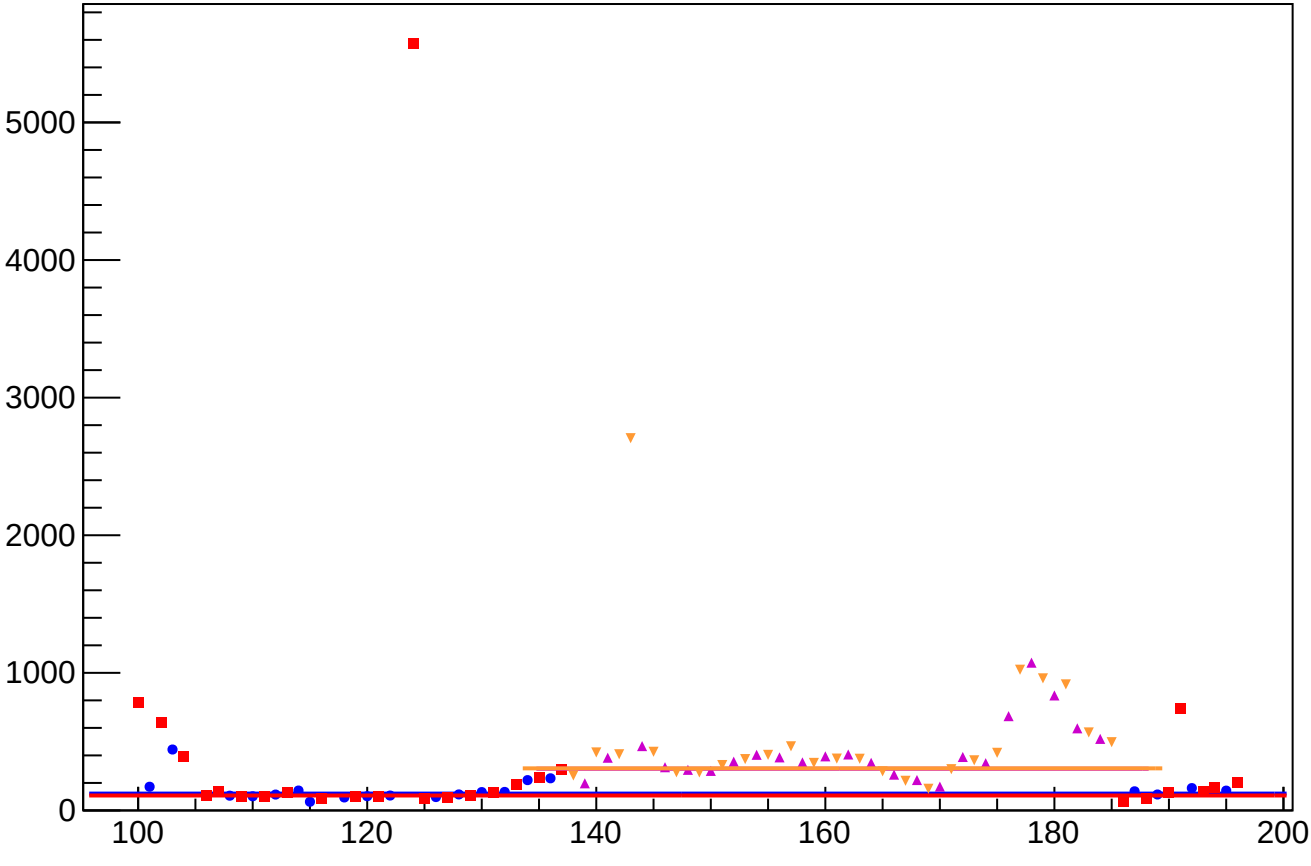
Right: 0.012+/-0.027 $\chi^2$/NDF: 46.8/45

In: 0.056+/-0.037 $\chi^2$/NDF:42.7/42

Out: -0.010+/-0.033 $\chi^2$/NDF:59.2/50

All: 0.019+/-0.025 $\chi^2$/NDF: 103.6/93

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.521+/-0.030 $\chi^2$/NDF: 1896996.3/19

Left Out: 305.951+/-0.055 $\chi^2$/NDF:6634999.6/24

Right Out: 108.791+/-0.026 $\chi^2$/NDF: 3551343.6/25

Left In: 303.281+/-0.055 $\chi^2$/NDF:4813426.5/22

Left: 304.605+/-0.039 $\chi^2$/NDF: 11449609.9/47

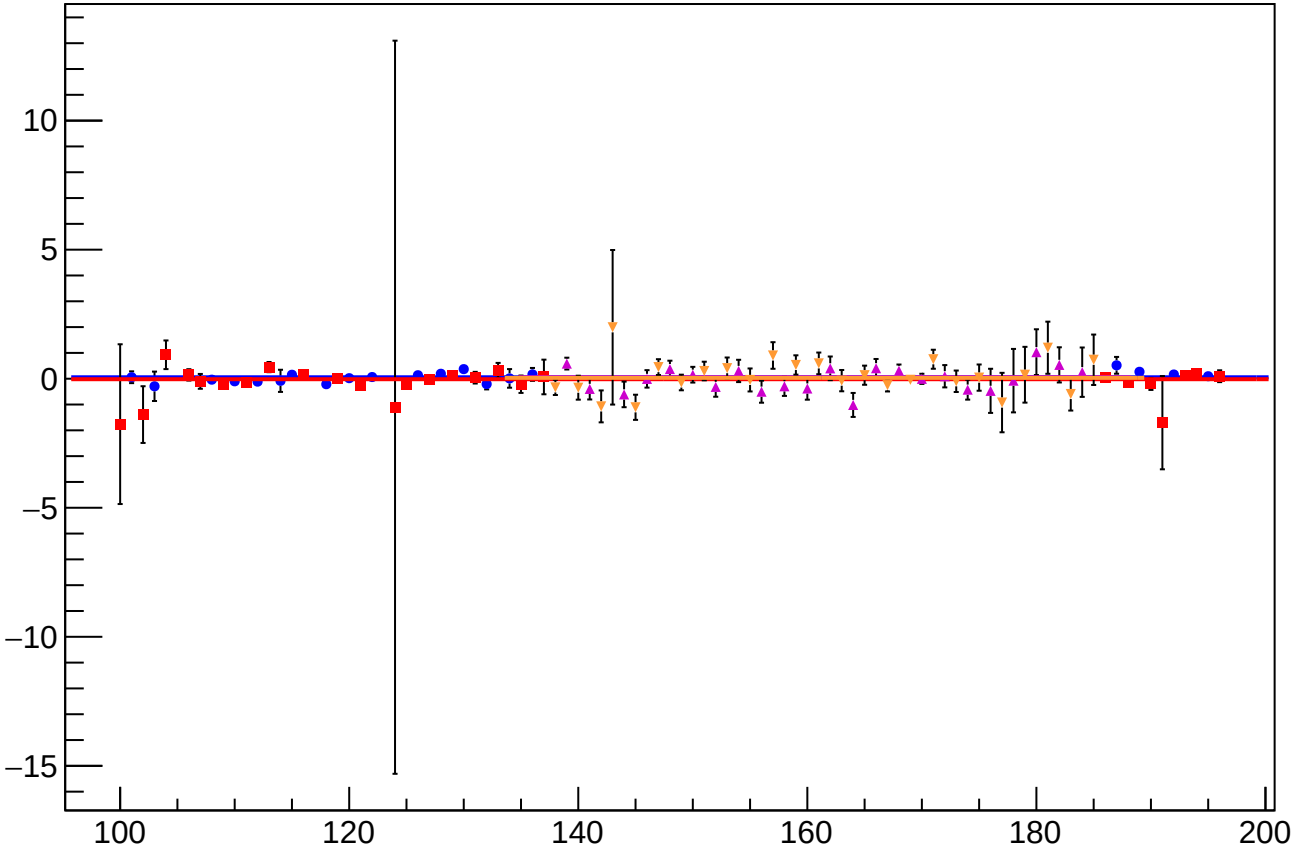
Right: 114.556+/-0.019 $\chi^2$/NDF: 5569882.3/45

In: 164.352+/-0.026 $\chi^2$/NDF:15114526.4/42

Out: 143.605+/-0.023 $\chi^2$/NDF:20725398.3/50

All: 152.667+/-0.017 $\chi^2$/NDF: 36190496.8/93

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.055+/-0.042 $\chi^2$/NDF: 16.7/19

Left Out: 0.034+/-0.078 $\chi^2$/NDF:30.5/24

Right Out: -0.019+/-0.036 $\chi^2$/NDF: 28.3/25

Left In: 0.056+/-0.077 $\chi^2$/NDF:26.0/22

Left: 0.045+/-0.055 $\chi^2$/NDF: 56.5/47

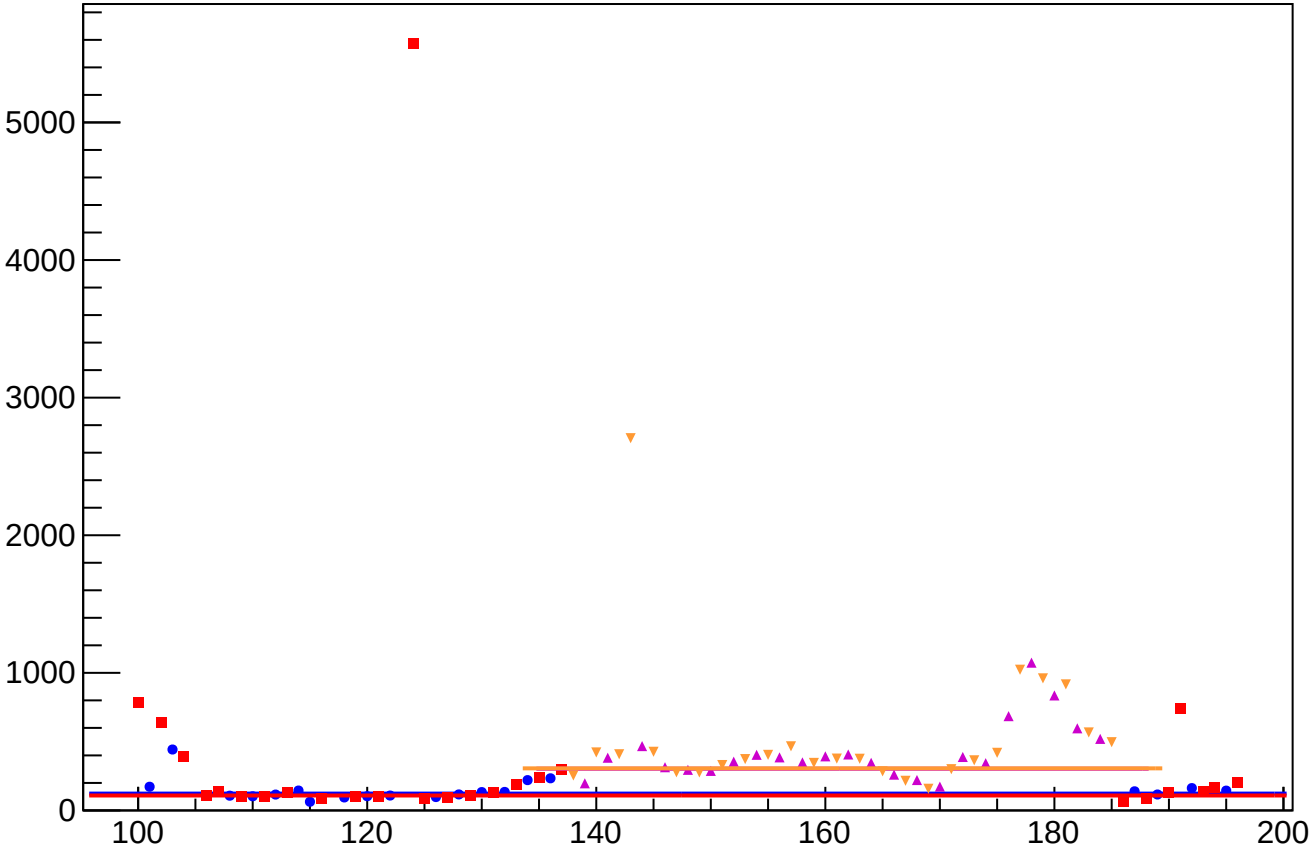
Right: 0.012+/-0.027 $\chi^2$/NDF: 46.8/45

In: 0.056+/-0.037 $\chi^2$/NDF:42.7/42

Out: -0.010+/-0.033 $\chi^2$/NDF:59.2/50

All: 0.019+/-0.025 $\chi^2$/NDF: 103.6/93

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.521+/-0.030 $\chi^2$/NDF: 1896996.3/19

Left Out: 305.951+/-0.055 $\chi^2$/NDF:6634999.6/24

Right Out: 108.791+/-0.026 $\chi^2$/NDF: 3551343.6/25

Left In: 303.281+/-0.055 $\chi^2$/NDF:4813426.5/22

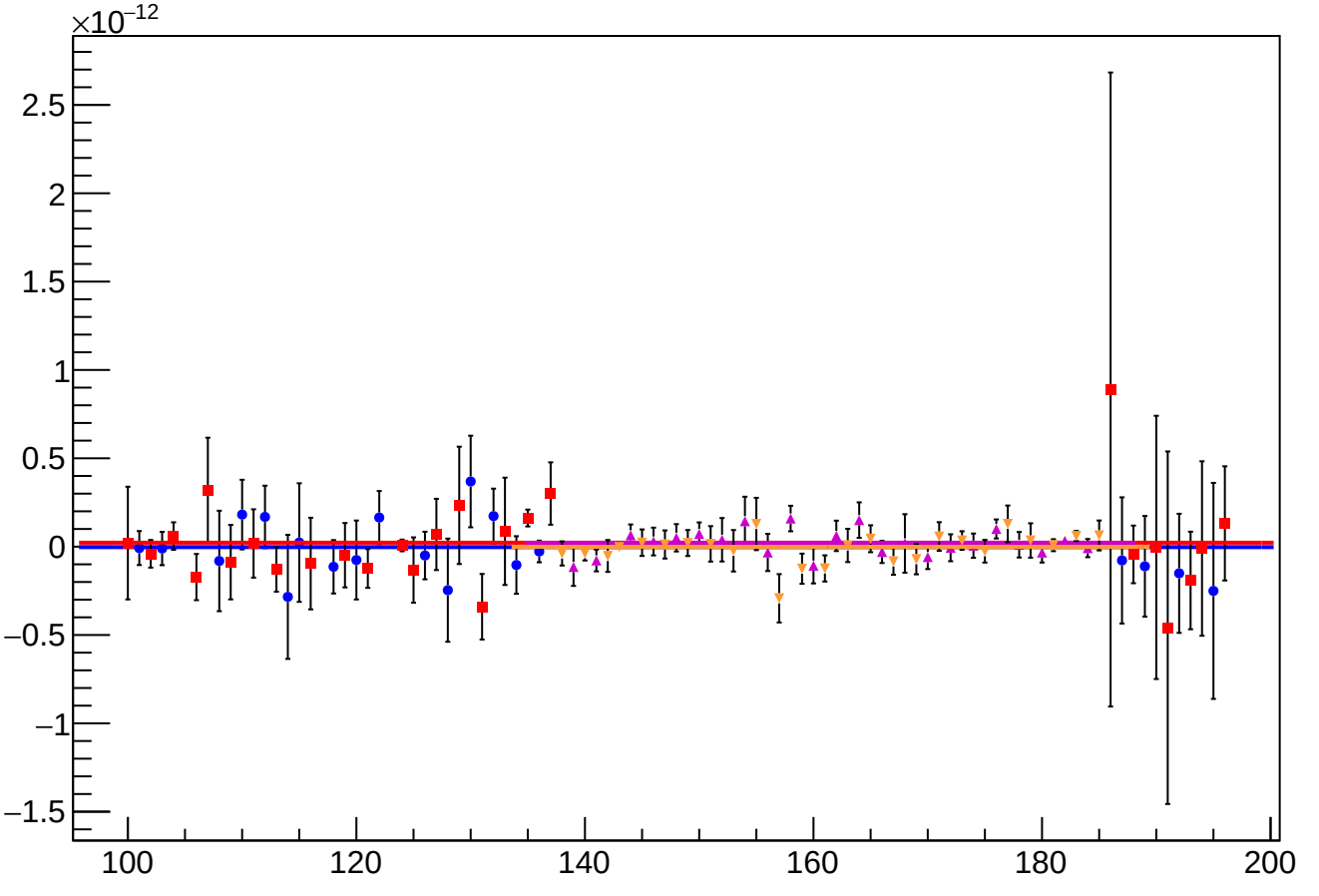
Left: 304.605+/-0.039 $\chi^2$/NDF: 11449609.9/47

Right: 114.556+/-0.019 $\chi^2$/NDF: 5569882.3/45

In: 164.352+/-0.026 $\chi^2$/NDF:15114526.4/42

Out: 143.605+/-0.023 $\chi^2$/NDF:20725398.3/50

All: 152.667+/-0.017 $\chi^2$/NDF: 36190496.8/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.5/22

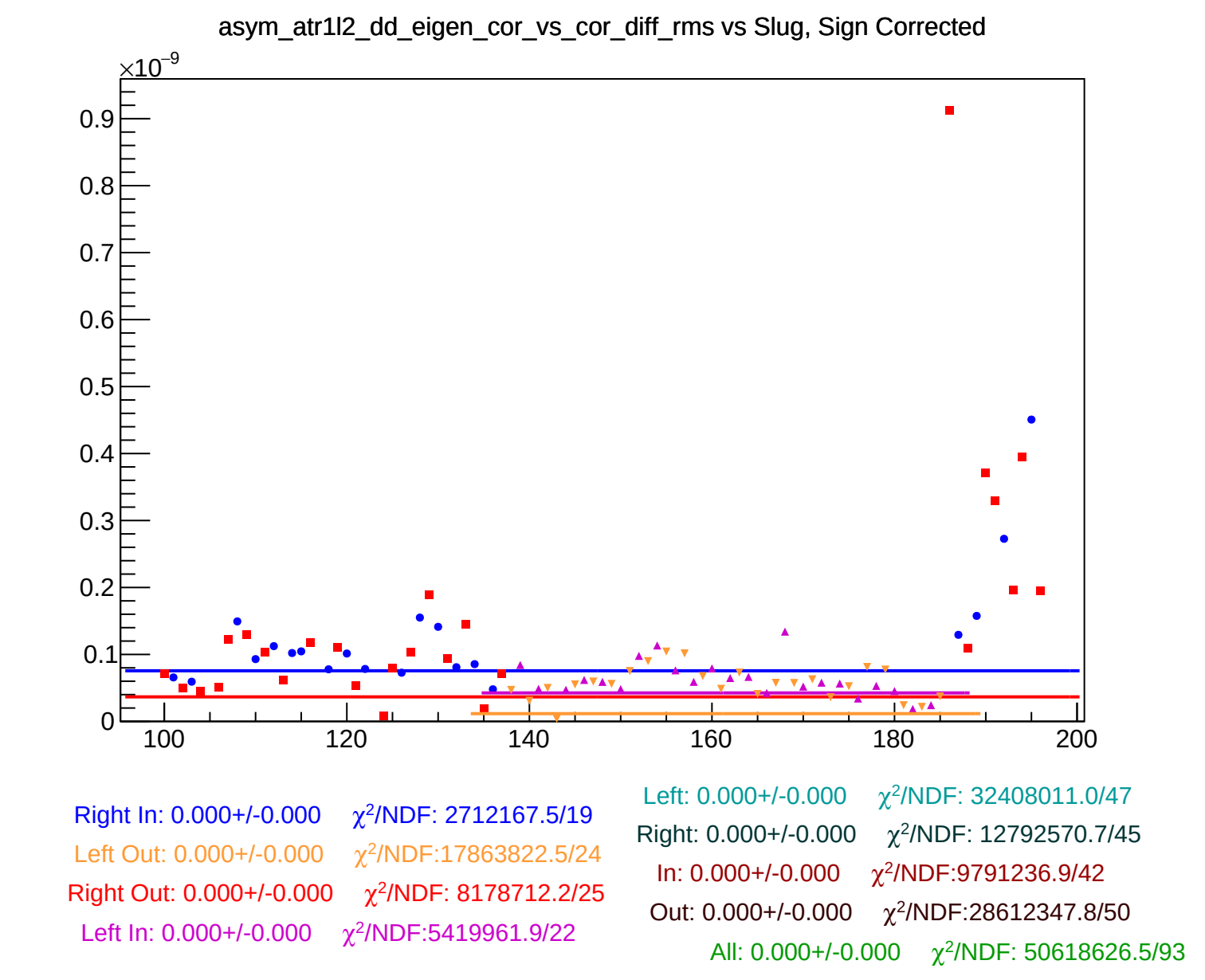
Left: 0.000+/-0.000 $\chi^2$/NDF: 44.0/47

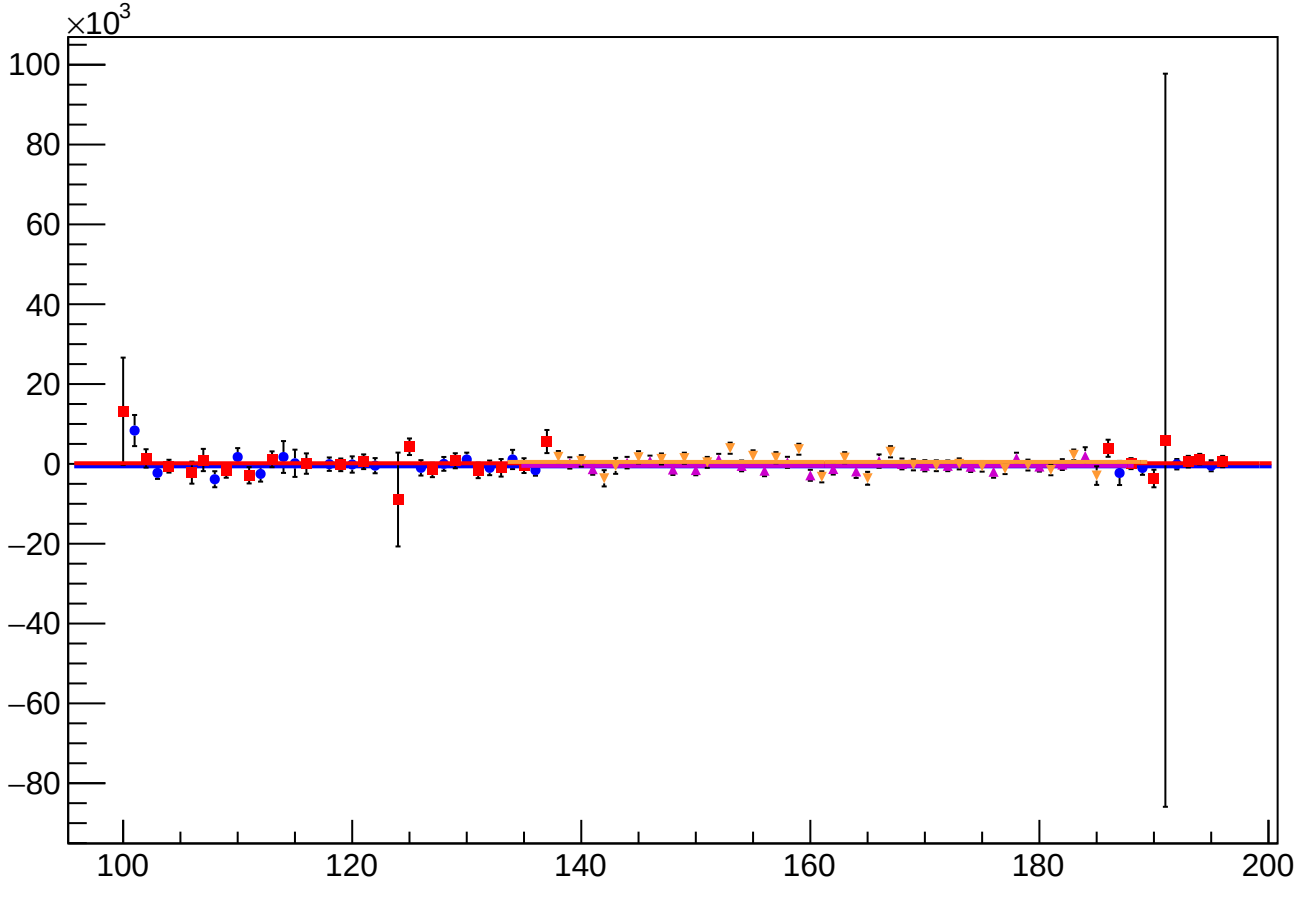
Right: 0.000+/-0.000 $\chi^2$/NDF: 35.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:29.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:48.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 80.1/93


asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2712167.5/19
Left Out: 0.000+/-0.000 χ²/NDF:17863822.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 8178712.2/25
Left In: 0.000+/-0.000 χ²/NDF:5419961.9/22
Left: 0.000+/-0.000 χ²/NDF: 32408011.0/47
Right: 0.000+/-0.000 χ²/NDF: 12792570.7/45
In: 0.000+/-0.000 χ²/NDF:9791236.9/42
Out: 0.000+/-0.000 χ²/NDF:28612347.8/50
All: 0.000+/-0.000 χ²/NDF: 50618626.5/93




Right In: -614.675+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.062+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 156.945+/-386.866 $\chi^2$/NDF: 22.9/25

Left In: -486.821+/-293.769 $\chi^2$/NDF:14.4/22

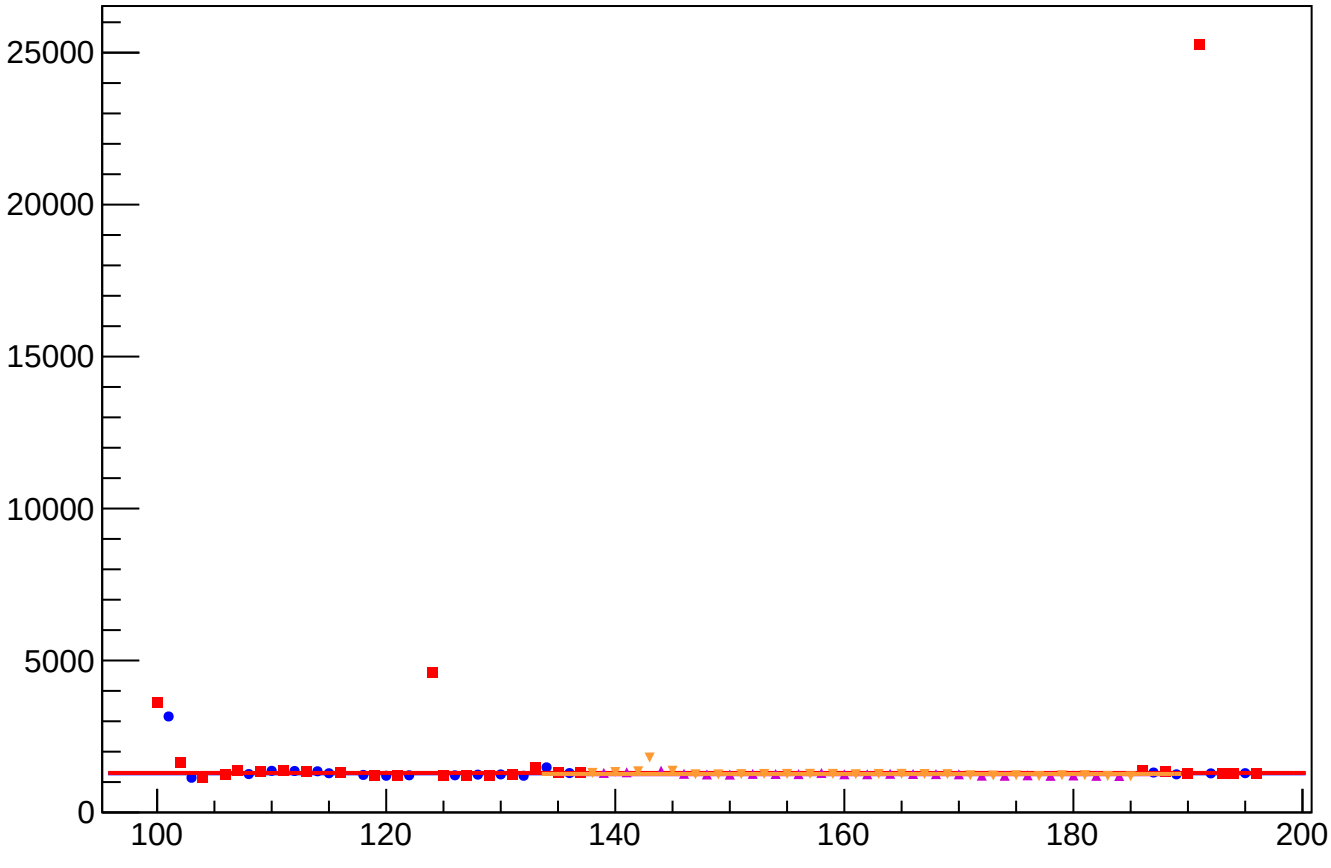
Left: 11.486+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -199.863+/-283.651 $\chi^2$/NDF: 39.2/45

In: -529.211+/-240.182 $\chi^2$/NDF:28.9/42

Out: 372.302+/-231.270 $\chi^2$/NDF:70.3/50

All: -61.418+/-166.594 $\chi^2$/NDF: 106.5/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515618.9/19

Left Out: 1266.967+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1300.693+/-0.273 $\chi^2$/NDF: 465812.9/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.4/22

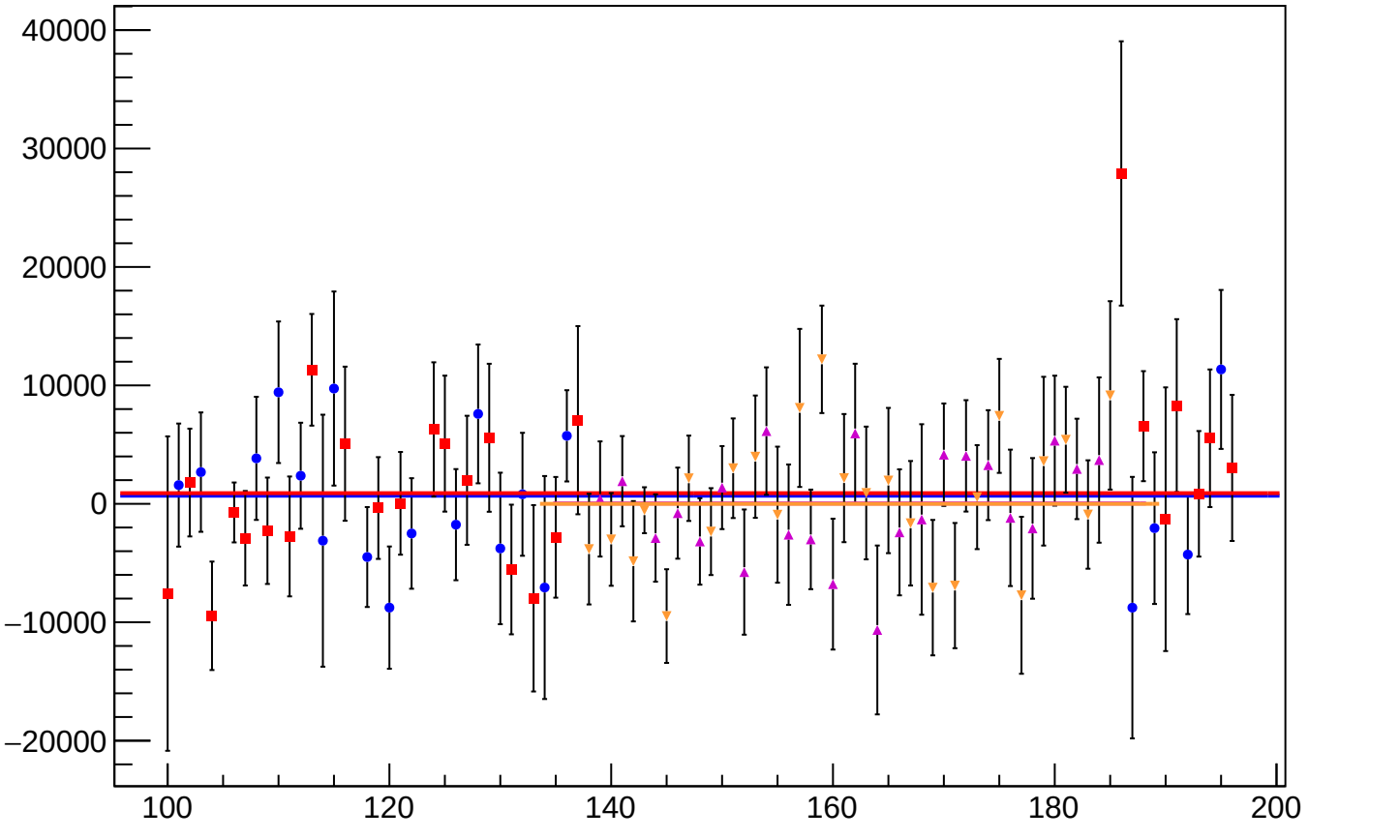
Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

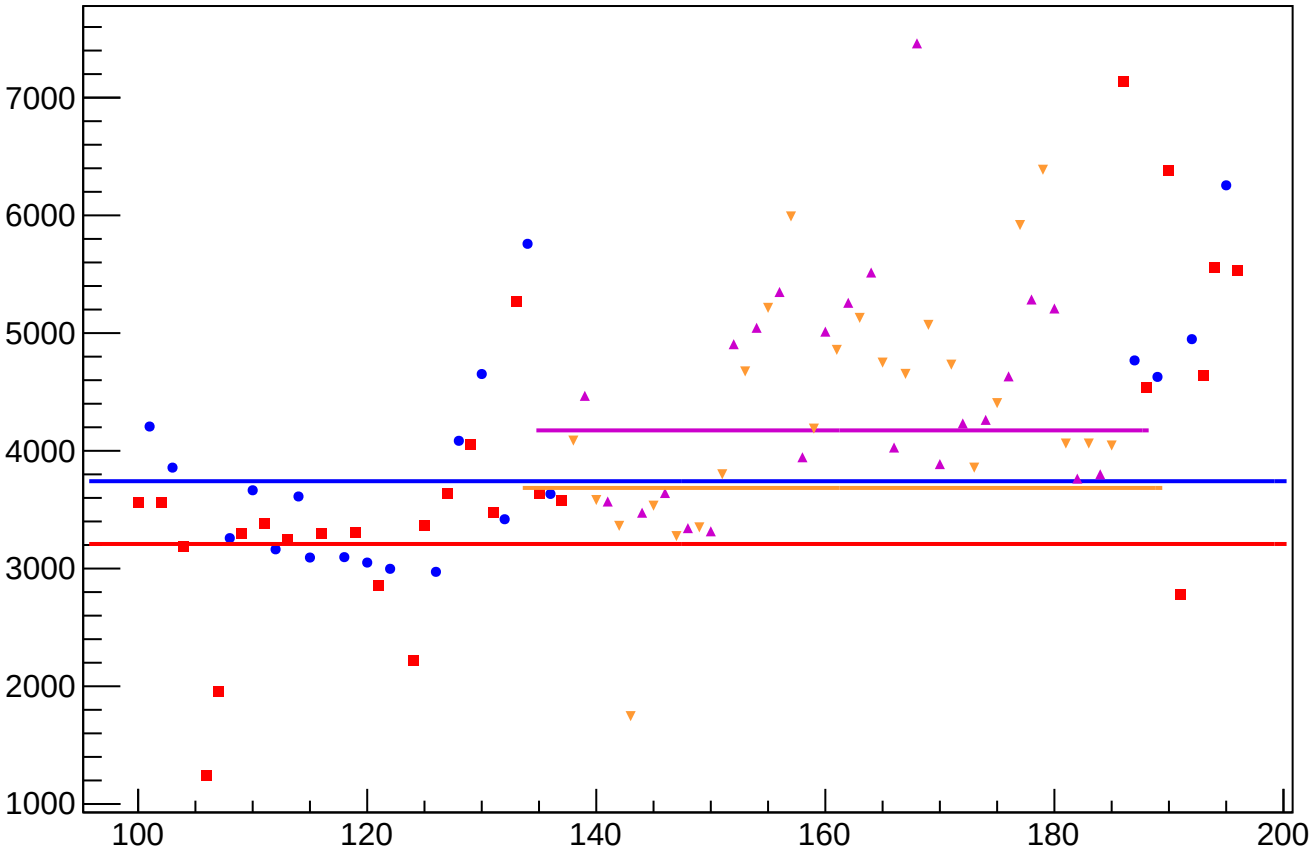
Right: 1294.723+/-0.200 $\chi^2$/NDF: 982467.2/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559446.7/42

Out: 1279.046+/-0.163 $\chi^2$/NDF:663146.9/50

All: 1273.526+/-0.118 $\chi^2$/NDF: 1224965.3/93


asym_atl_dd_atr_dd_avg_reg_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 686.766+/-1227.454 χ²/NDF: 18.5/19
Left Out: -0.604+/-886.488 χ²/NDF:29.1/24
Right Out: 899.769+/-1008.735 χ²/NDF: 28.3/25
Left In: 31.593+/-995.348 χ²/NDF:14.0/22
Left: 13.638+/-661.996 χ²/NDF: 43.1/47
Right: 813.903+/-779.330 χ²/NDF: 46.8/45
In: 291.504+/-773.107 χ²/NDF:32.7/42
Out: 391.747+/-665.891 χ²/NDF:57.8/50
All: 349.053+/-504.540 χ²/NDF: 90.5/93




Right In: 3741.990+/-0.868 $\chi^2$/NDF: 867873.6/19

Left Out: 3684.769+/-0.627 $\chi^2$/NDF:3693646.6/24

Right Out: 3208.734+/-0.713 $\chi^2$/NDF: 3048047.1/25

Left In: 4173.556+/-0.704 $\chi^2$/NDF:1274968.4/22

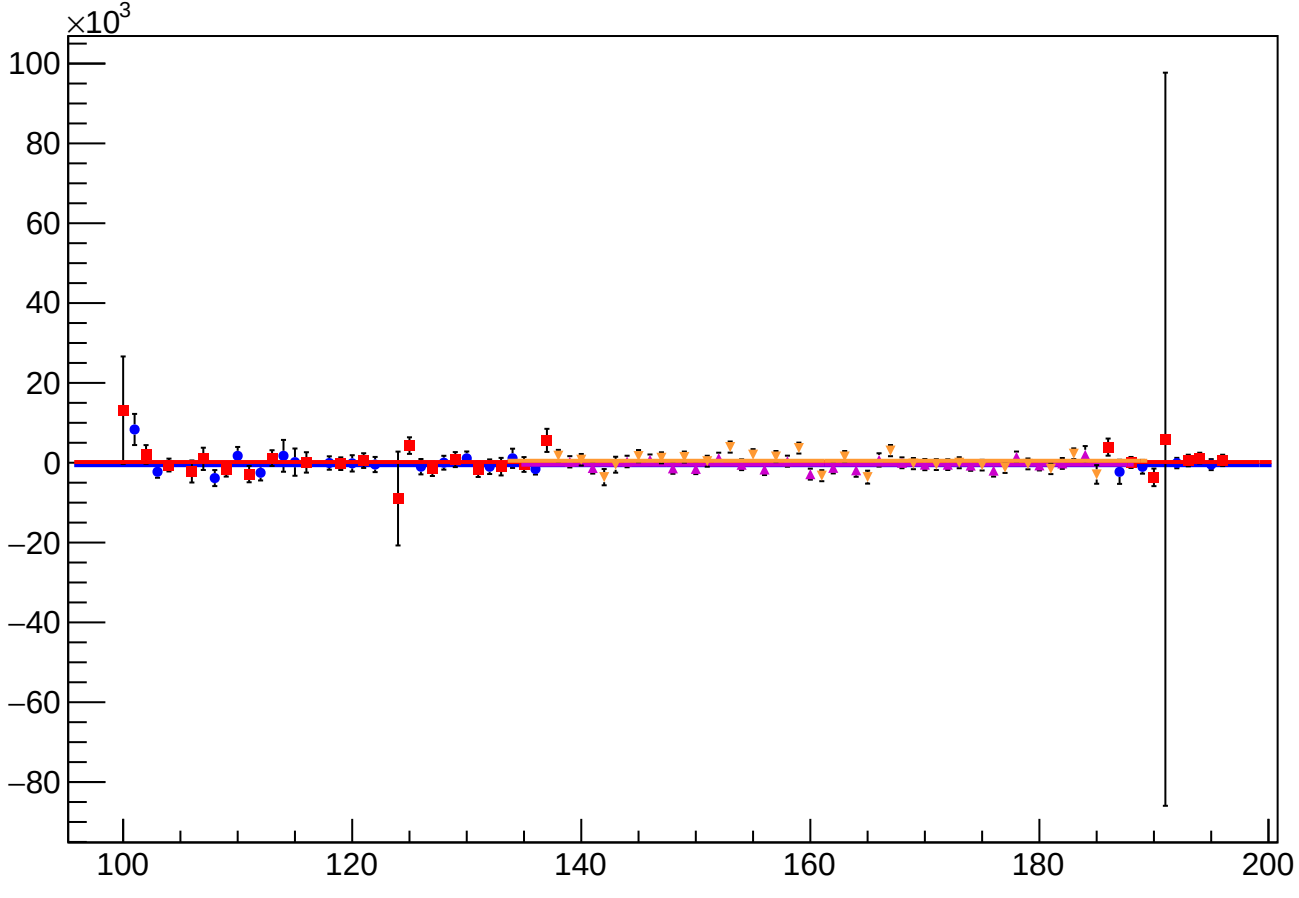
Left: 3900.981+/-0.468 $\chi^2$/NDF: 5237573.9/47

Right: 3423.699+/-0.551 $\chi^2$/NDF: 4141230.8/45

In: 4002.351+/-0.547 $\chi^2$/NDF:2291998.8/42

Out: 3477.329+/-0.471 $\chi^2$/NDF:6993006.0/50

All: 3700.938+/-0.357 $\chi^2$/NDF: 9814535.2/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

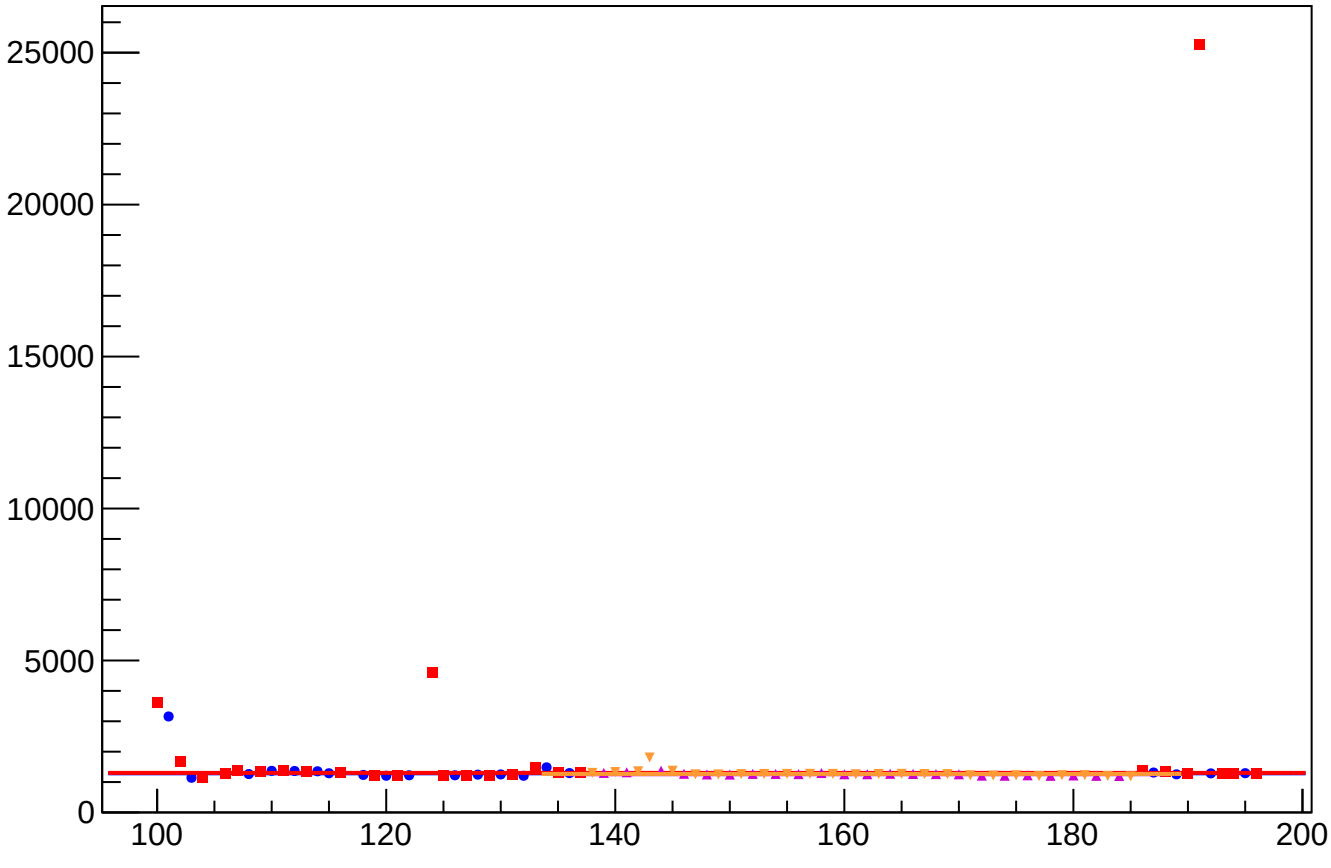
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

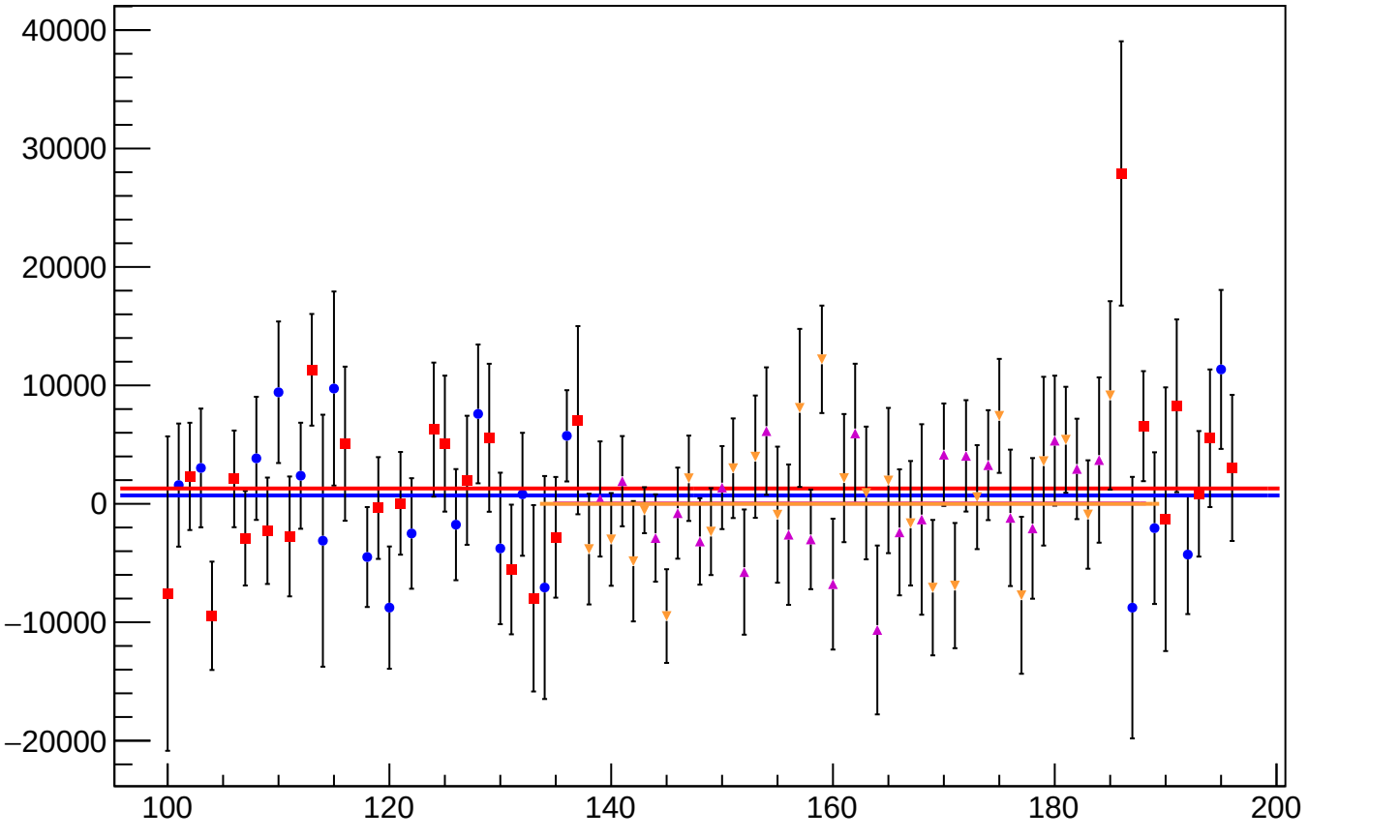
Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93




Right In: 708.951+/-1227.092 $\chi^2$/NDF: 18.5/19

Left Out: -0.541+/-886.487 $\chi^2$/NDF:29.1/24

Right Out: 1295.913+/-1061.753 $\chi^2$/NDF: 27.9/25

Left In: 31.597+/-995.347 $\chi^2$/NDF:14.0/22

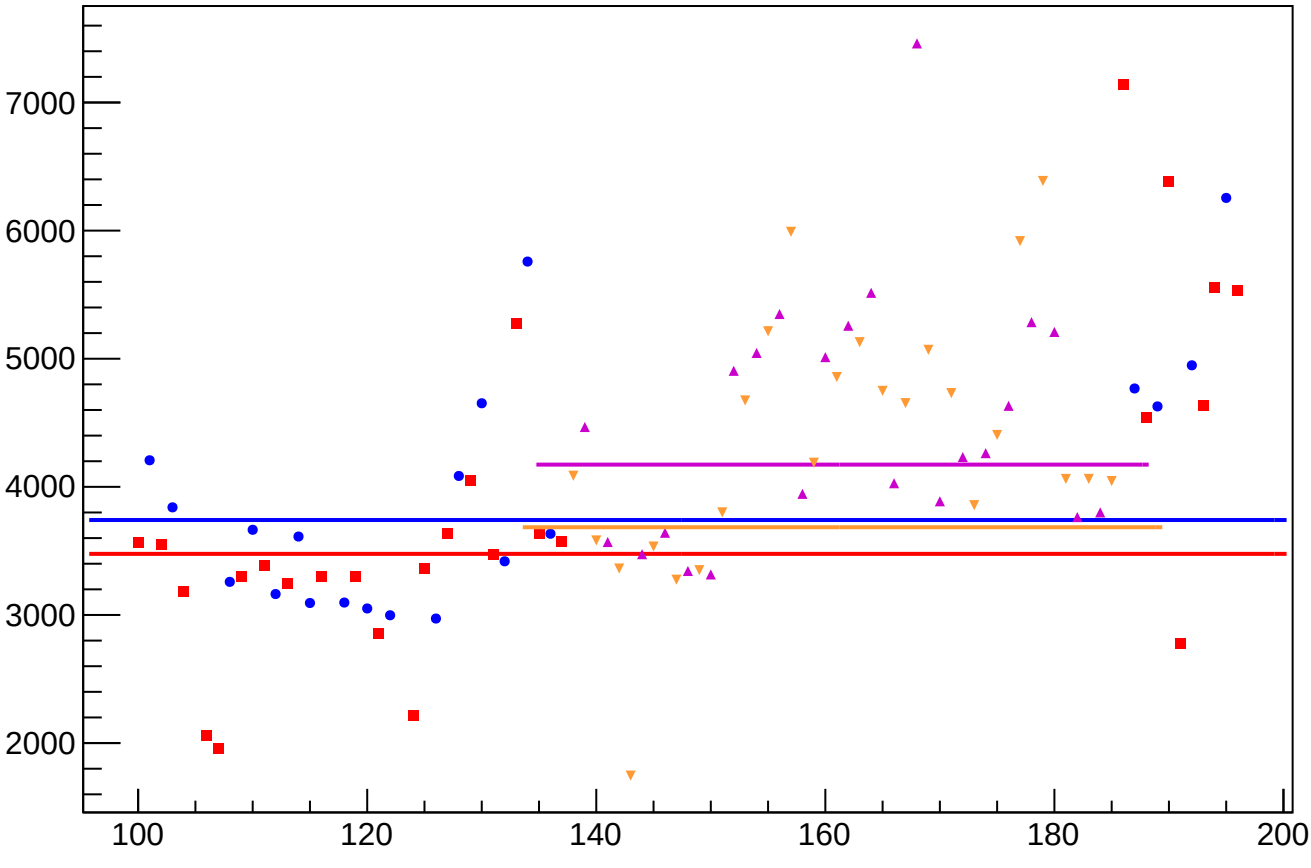
Left: 13.675+/-661.996 $\chi^2$/NDF: 43.1/47

Right: 1044.612+/-802.914 $\chi^2$/NDF: 46.6/45

In: 300.403+/-773.016 $\chi^2$/NDF:32.7/42

Out: 531.992+/-680.484 $\chi^2$/NDF:57.8/50

All: 430.881+/-510.773 $\chi^2$/NDF: 90.6/93




Right In: 3741.069+/-0.868 $\chi^2$/NDF: 867662.3/19

Left Out: 3684.762+/-0.627 $\chi^2$/NDF:3693687.2/24

Right Out: 3476.932+/-0.751 $\chi^2$/NDF: 1868011.4/25

Left In: 4173.550+/-0.704 $\chi^2$/NDF:1274967.5/22

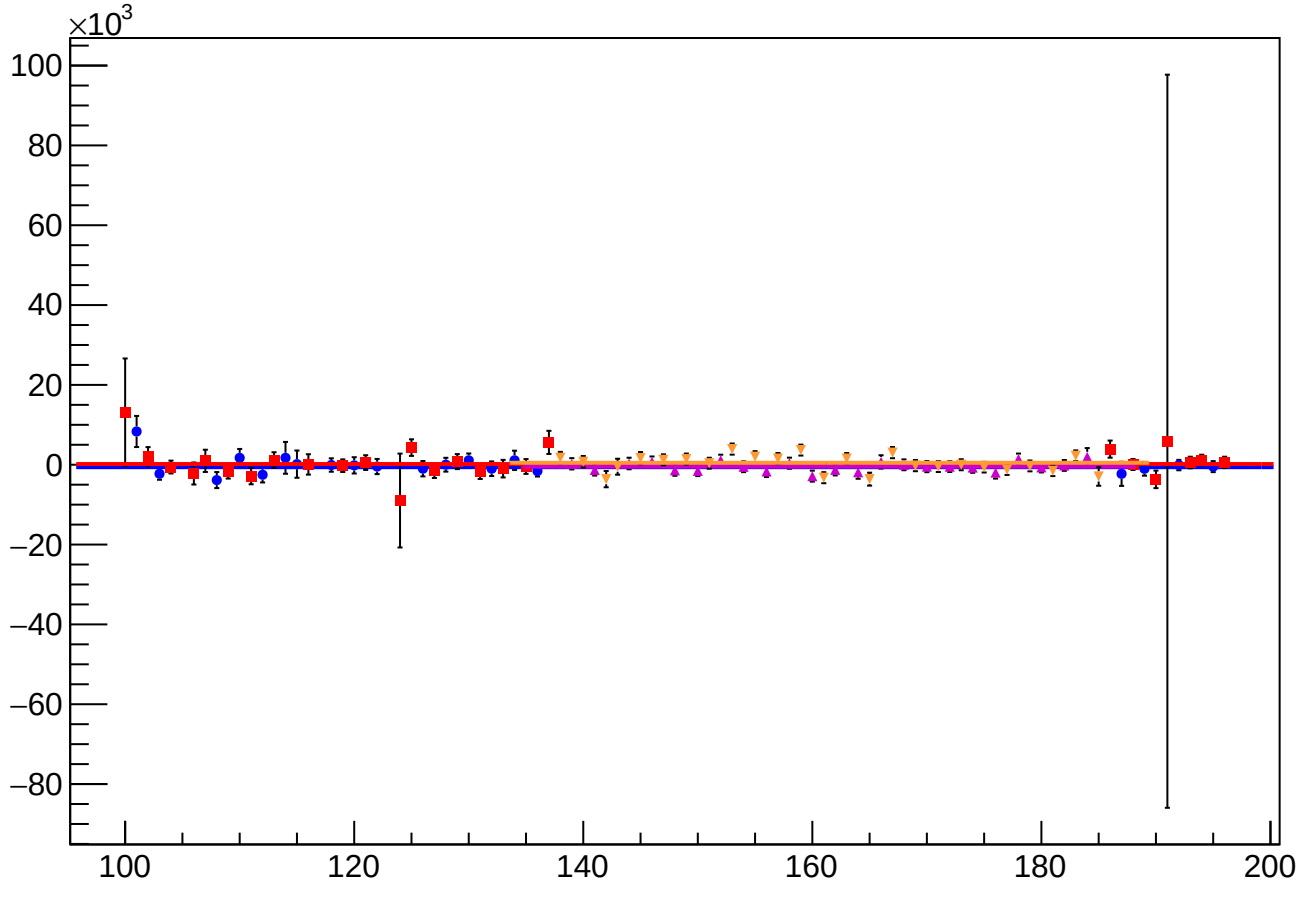
Left: 3900.975+/-0.468 $\chi^2$/NDF: 5237615.0/47

Right: 3590.019+/-0.568 $\chi^2$/NDF: 2788667.8/45

In: 4001.921+/-0.547 $\chi^2$/NDF:2292473.4/42

Out: 3599.393+/-0.481 $\chi^2$/NDF:5606852.2/50

All: 3775.135+/-0.361 $\chi^2$/NDF: 8204864.4/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

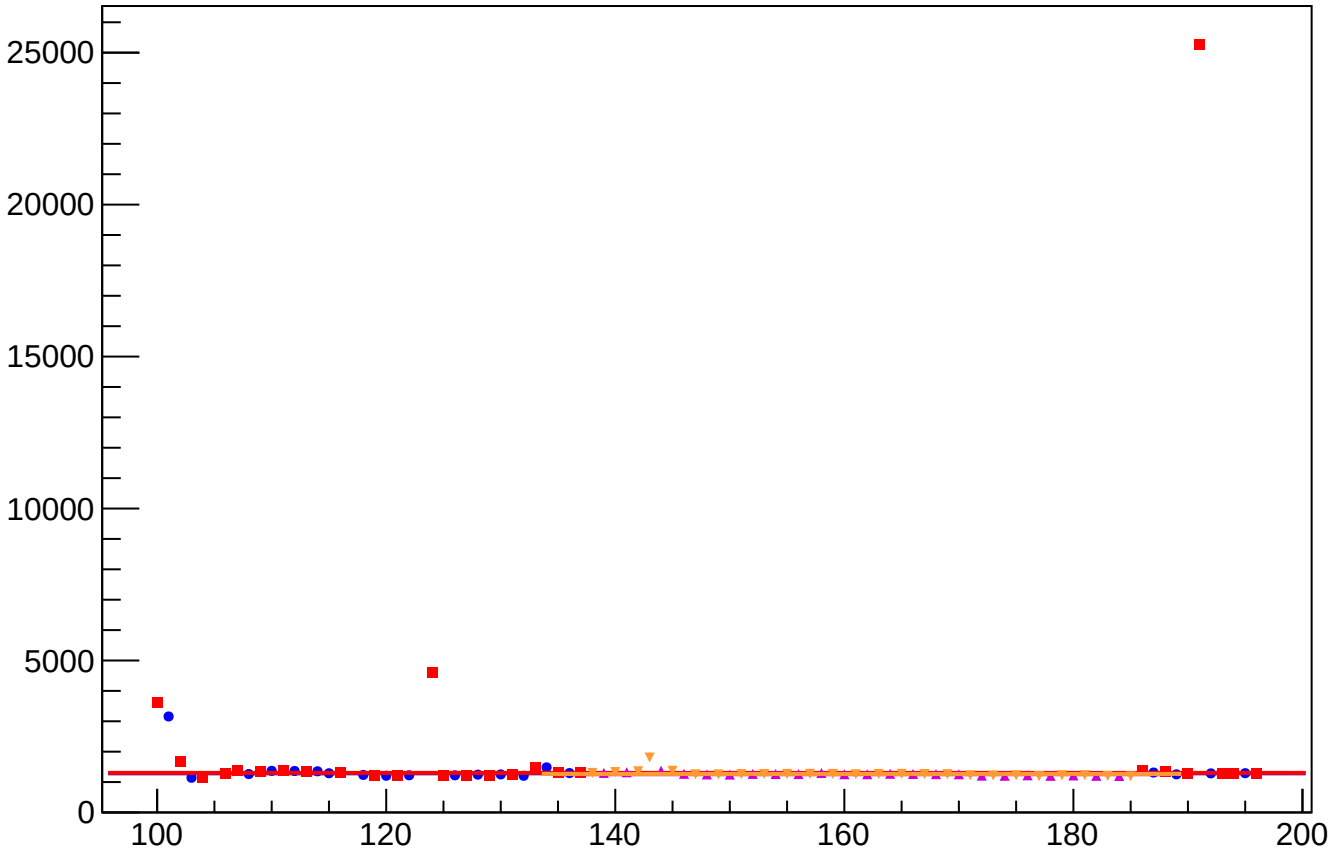
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

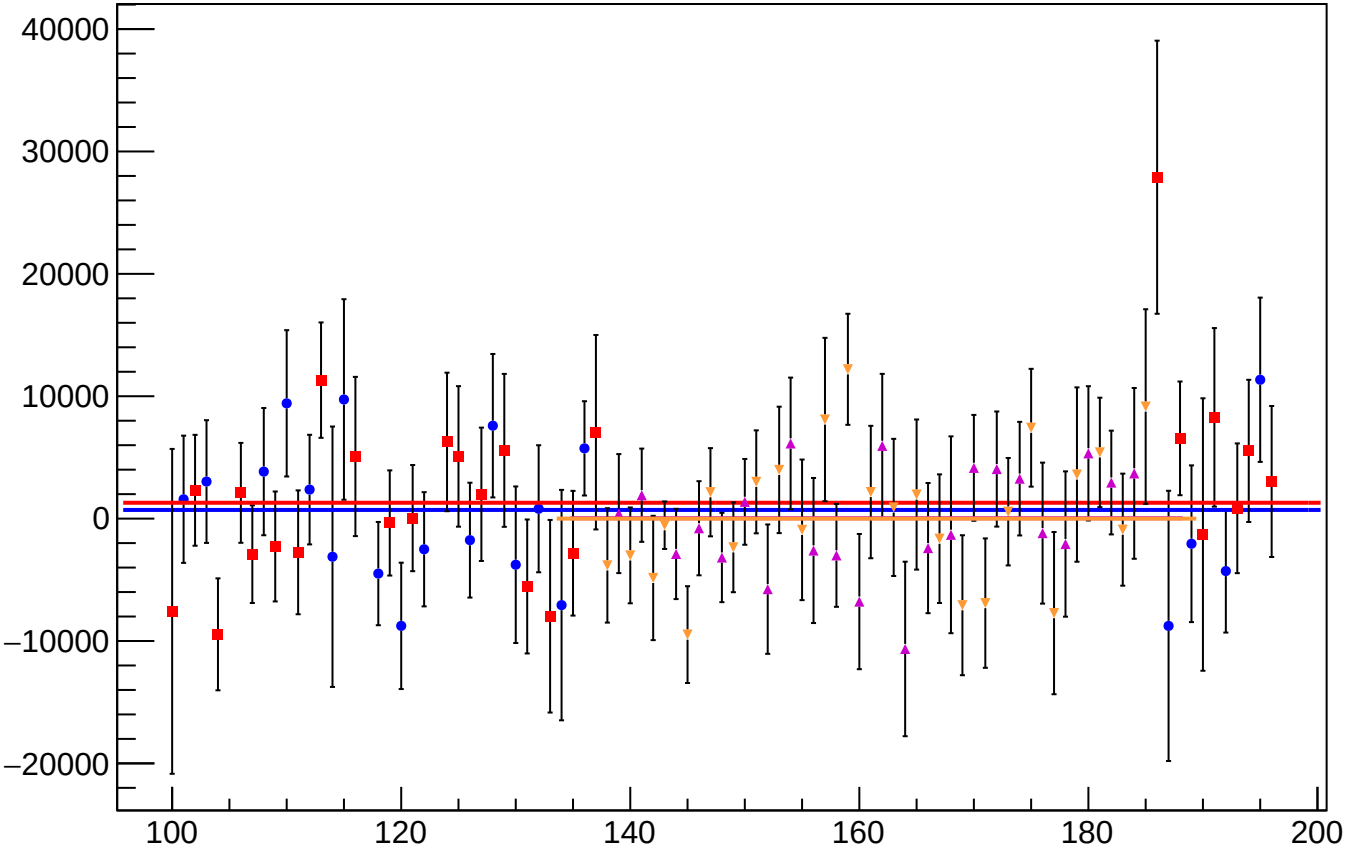
Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 708.951+/-1227.092 $\chi^2$/NDF: 18.5/19

Left Out: -0.541+/-886.487 $\chi^2$/NDF:29.1/24

Right Out: 1295.913+/-1061.753 $\chi^2$/NDF: 27.9/25

Left In: 31.597+/-995.347 $\chi^2$/NDF:14.0/22

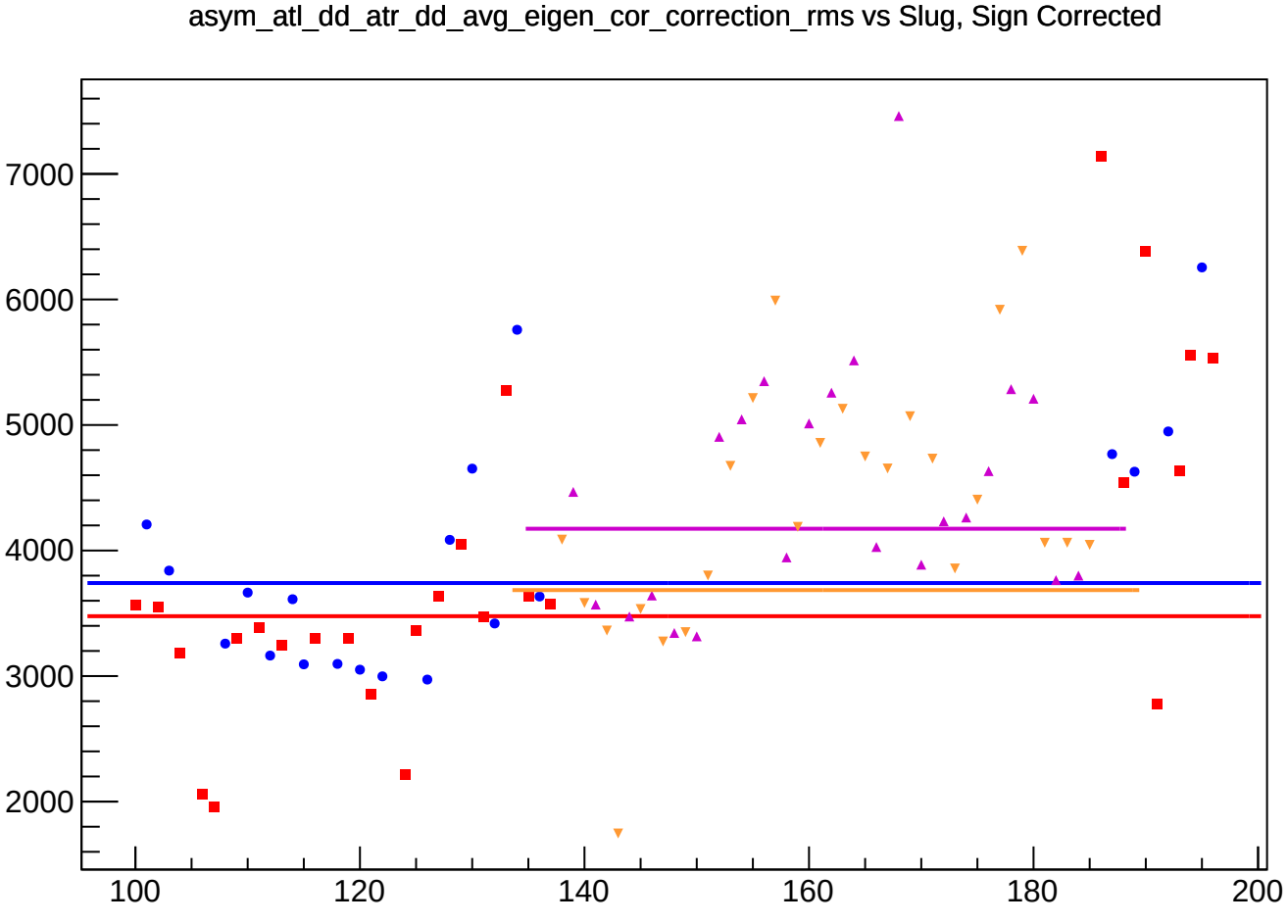
Left: 13.675+/-661.996 $\chi^2$/NDF: 43.1/47

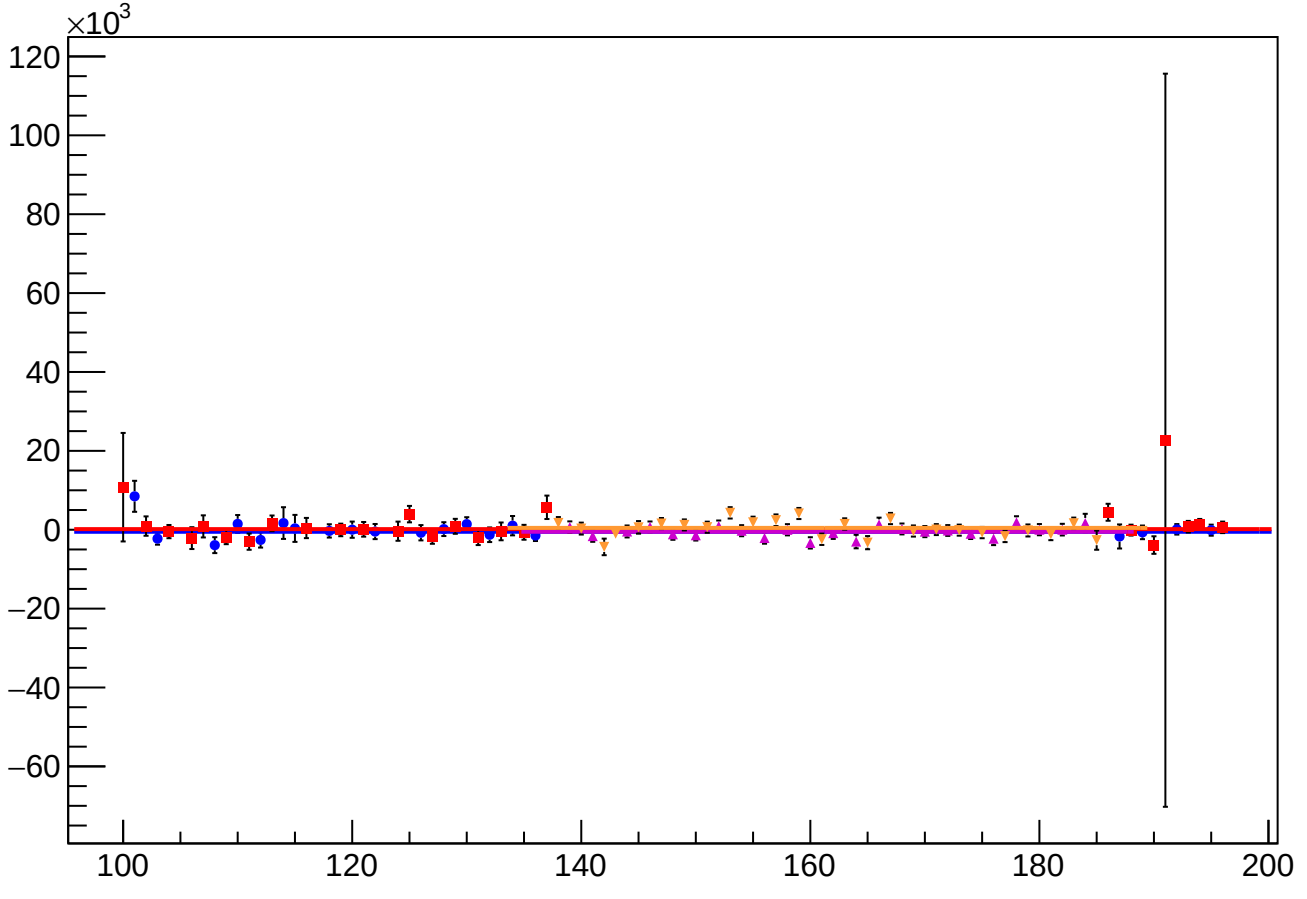
Right: 1044.612+/-802.914 $\chi^2$/NDF: 46.6/45

In: 300.403+/-773.016 $\chi^2$/NDF:32.7/42

Out: 531.992+/-680.484 $\chi^2$/NDF:57.8/50

All: 430.881+/-510.773 $\chi^2$/NDF: 90.6/93


asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 3741.069+/-0.868 χ²/NDF: 867662.3/19
Left Out: 3684.762+/-0.627 χ²/NDF:3693687.2/24
Right Out: 3476.932+/-0.751 χ²/NDF: 1868011.4/25
Left In: 4173.550+/-0.704 χ²/NDF:1274967.5/22
Left: 3900.975+/-0.468 χ²/NDF: 5237615.0/47
Right: 3590.019+/-0.568 χ²/NDF: 2788667.8/45
In: 4001.921+/-0.547 χ²/NDF:2292473.4/42
Out: 3599.393+/-0.481 χ²/NDF:5606852.2/50
All: 3775.135+/-0.361 χ²/NDF: 8204864.4/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.929+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.863+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.055 $\chi^2$/NDF:17.4/22

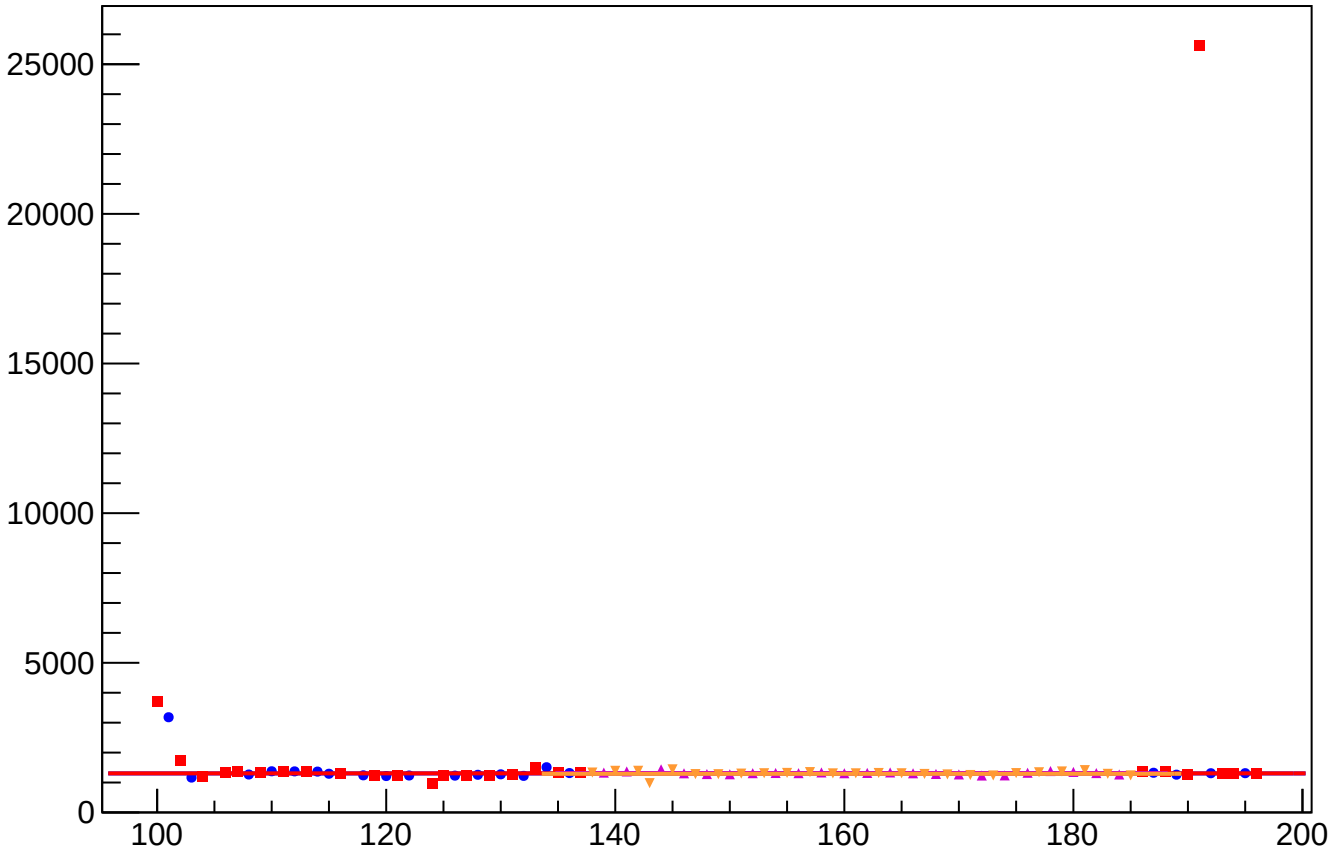
Left: 2.853+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.588+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.625+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.209+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.823+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511957.8/19

Left Out: 1291.211+/-0.208 $\chi^2$/NDF:230735.1/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.7/25

Left In: 1314.006+/-0.217 $\chi^2$/NDF:43044.7/22

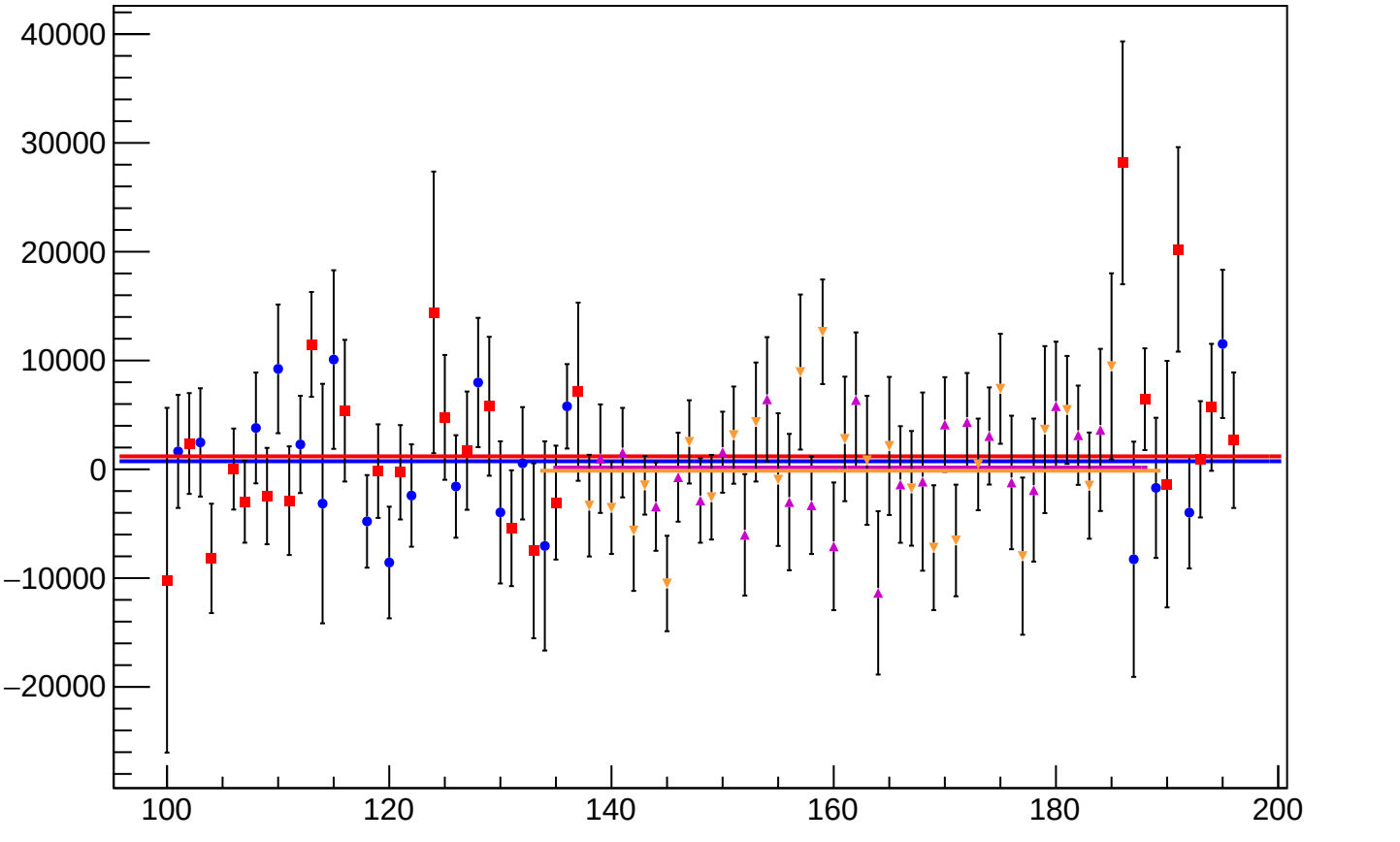
Left: 1302.123+/-0.150 $\chi^2$/NDF: 279525.5/47

Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.3/45

In: 1310.353+/-0.176 $\chi^2$/NDF:555820.5/42

Out: 1296.795+/-0.166 $\chi^2$/NDF:592951.9/50

All: 1303.181+/-0.121 $\chi^2$/NDF: 1151926.1/93




Right In: 738.920+/-1231.226 $\chi^2$/NDF: 18.3/19

Left Out: -127.273+/-977.231 $\chi^2$/NDF:28.6/24

Right Out: 1191.530+/-1079.945 $\chi^2$/NDF: 29.7/25

Left In: 159.452+/-1045.510 $\chi^2$/NDF:13.8/22

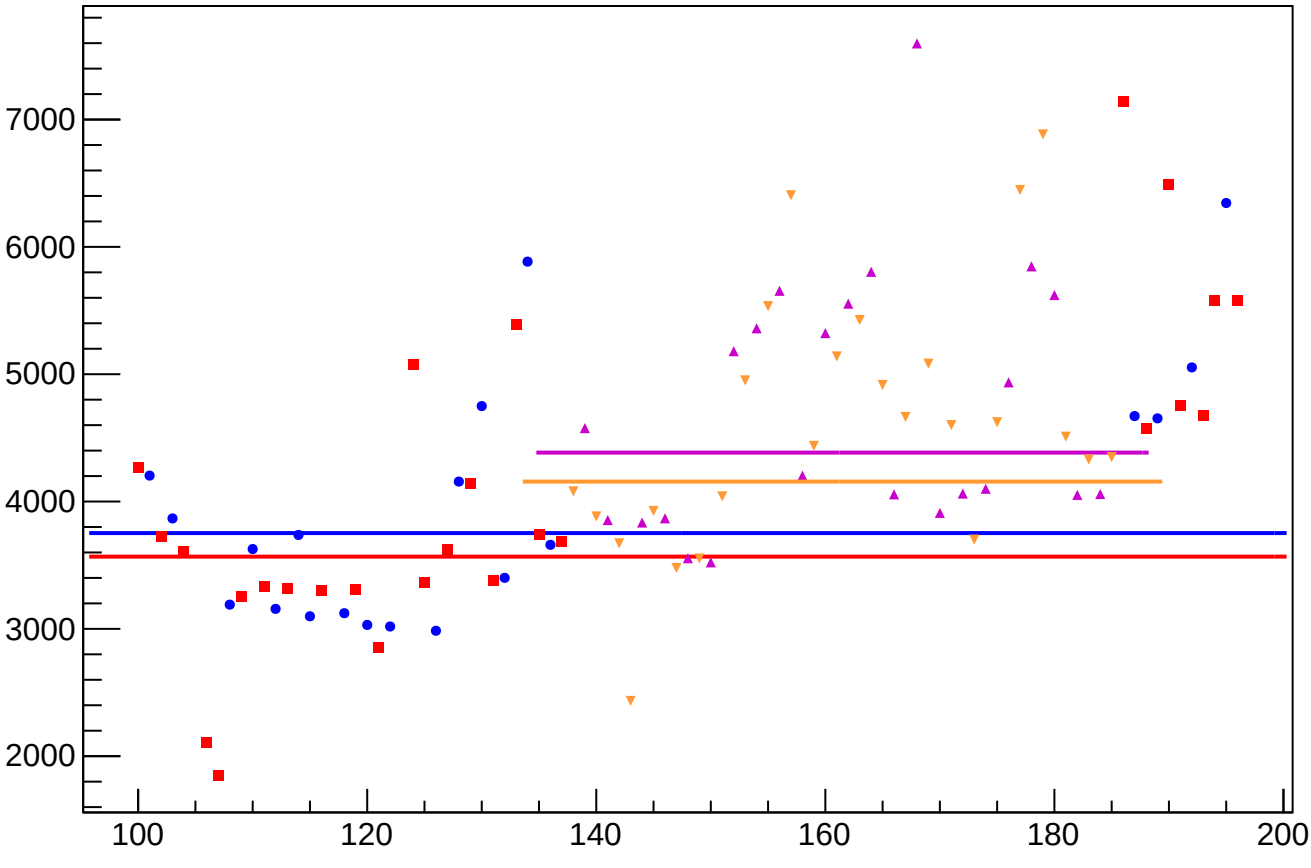
Left: 6.422+/-713.925 $\chi^2$/NDF: 42.4/47

Right: 994.725+/-811.884 $\chi^2$/NDF: 48.1/45

In: 402.231+/-796.944 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.605 $\chi^2$/NDF:59.1/50

All: 437.384+/-536.128 $\chi^2$/NDF: 91.3/93




Right In: 3752.245+/-0.871 $\chi^2$/NDF: 910787.1/19

Left Out: 4156.582+/-0.691 $\chi^2$/NDF:2080766.1/24

Right Out: 3567.226+/-0.764 $\chi^2$/NDF: 1961452.3/25

Left In: 4384.323+/-0.739 $\chi^2$/NDF:1255470.8/22

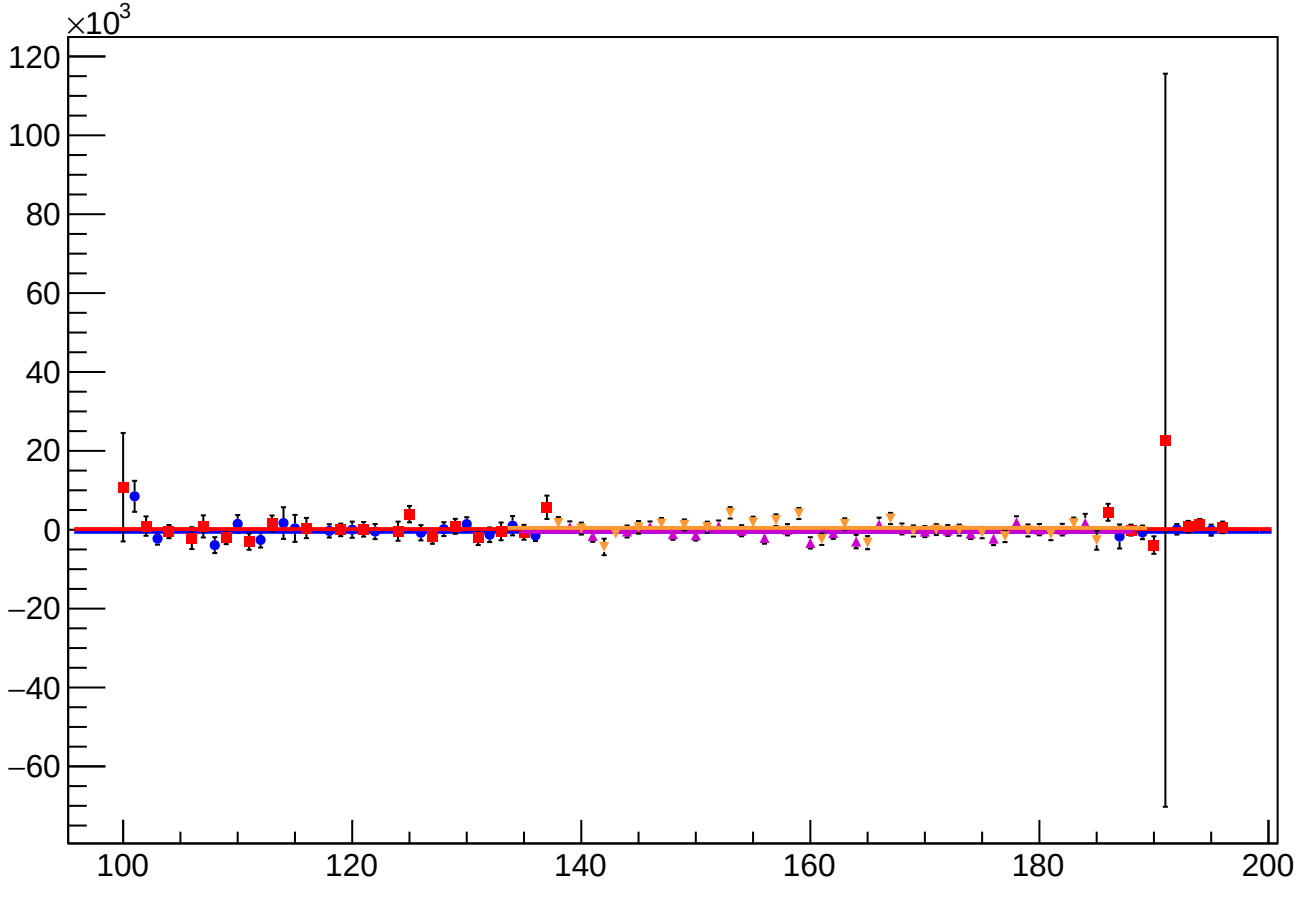
Left: 4262.773+/-0.505 $\chi^2$/NDF: 3386885.6/47

Right: 3647.676+/-0.574 $\chi^2$/NDF: 2897764.7/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472522.0/42

Out: 3891.257+/-0.512 $\chi^2$/NDF:4369703.1/50

All: 3994.553+/-0.379 $\chi^2$/NDF: 6932032.2/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.933+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.858+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.056 $\chi^2$/NDF:17.4/22

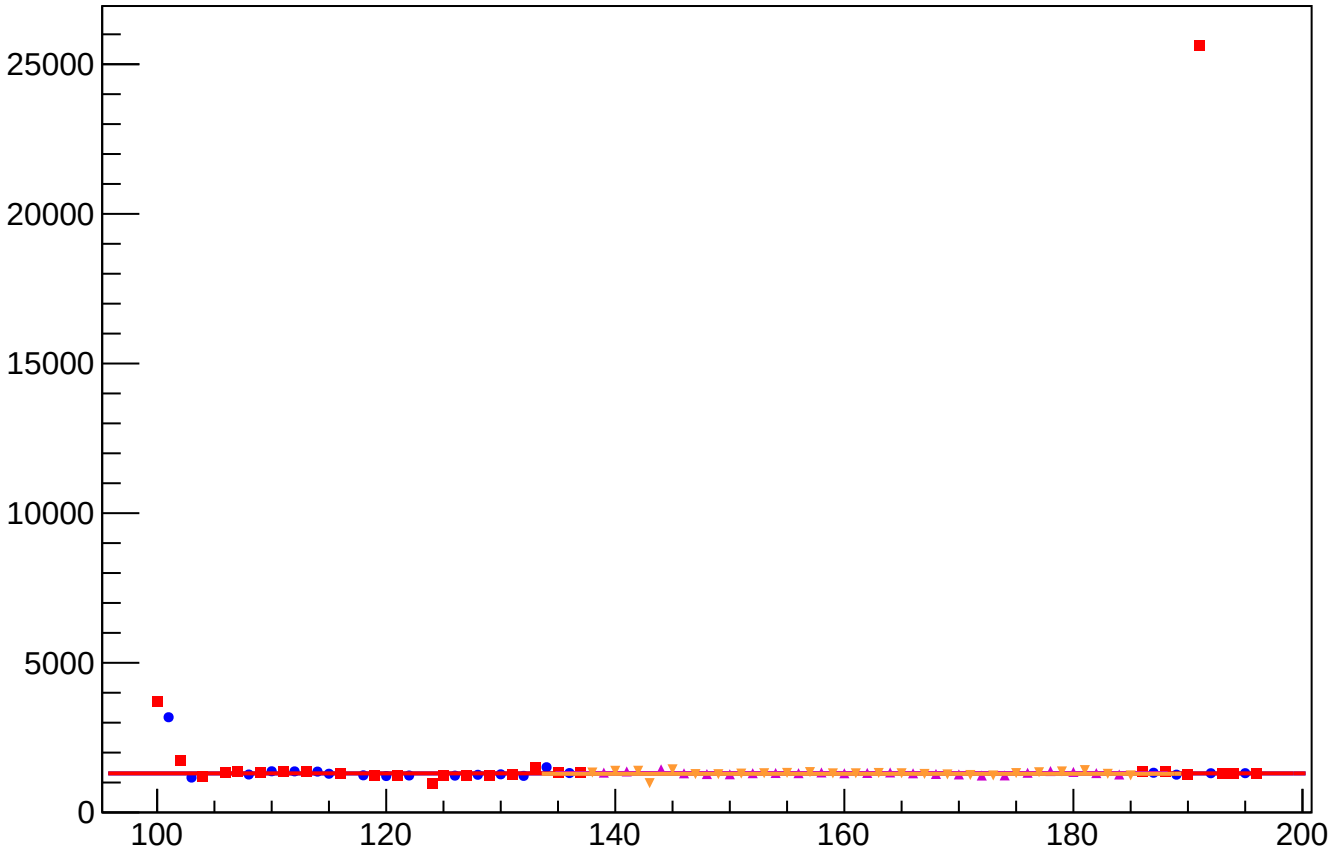
Left: 2.855+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.591+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.626+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.210+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.822+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511958.0/19

Left Out: 1291.212+/-0.208 $\chi^2$/NDF:230737.6/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.8/25

Left In: 1314.007+/-0.217 $\chi^2$/NDF:43046.8/22

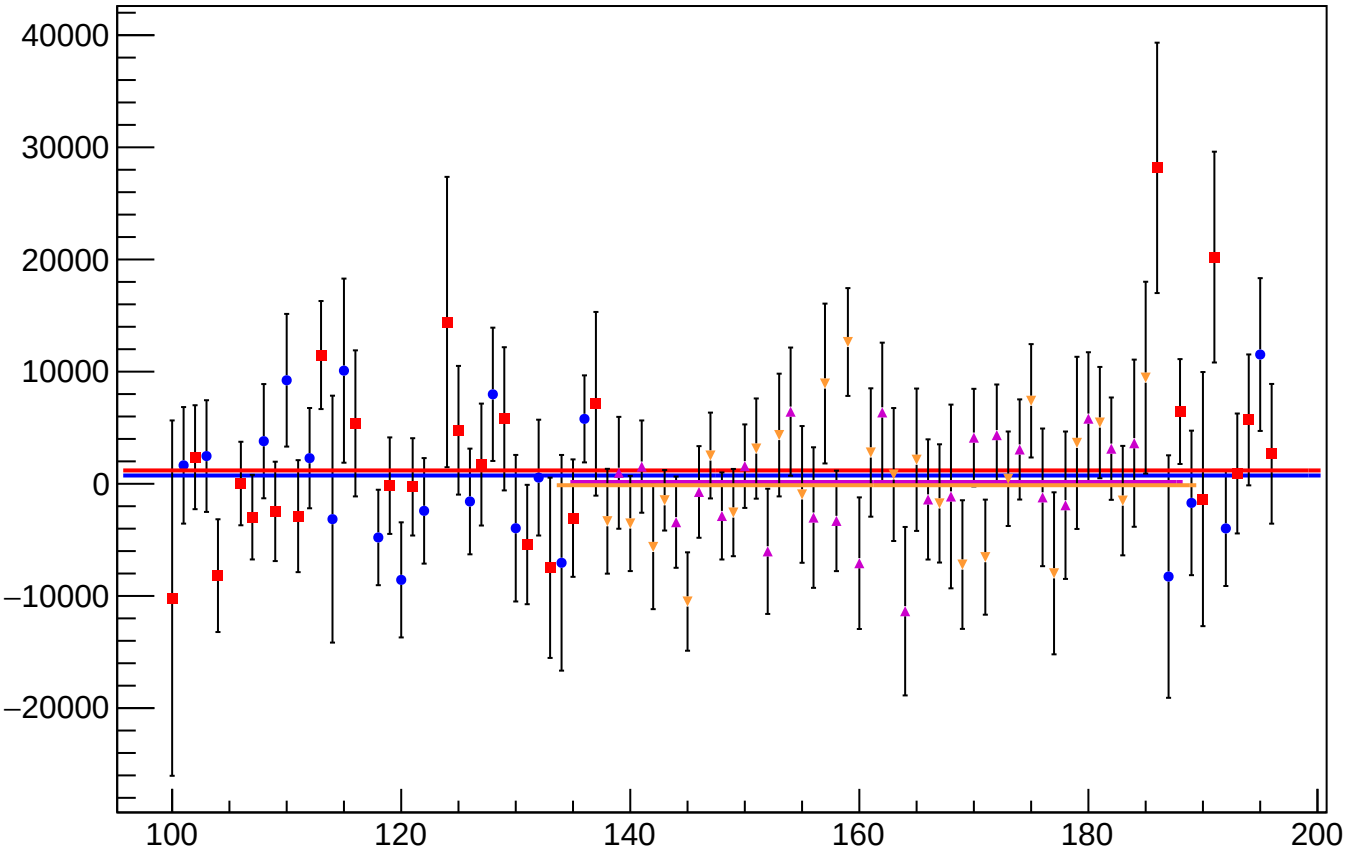
Left: 1302.125+/-0.150 $\chi^2$/NDF: 279530.2/47

Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.6/45

In: 1310.354+/-0.176 $\chi^2$/NDF:555823.1/42

Out: 1296.796+/-0.166 $\chi^2$/NDF:592954.1/50

All: 1303.182+/-0.121 $\chi^2$/NDF: 1151930.9/93




Right In: 738.910+/-1231.223 $\chi^2$/NDF: 18.3/19

Left Out: -127.271+/-977.232 $\chi^2$/NDF:28.6/24

Right Out: 1191.522+/-1079.943 $\chi^2$/NDF: 29.7/25

Left In: 159.454+/-1045.511 $\chi^2$/NDF:13.8/22

Left: 6.424+/-713.926 $\chi^2$/NDF: 42.4/47

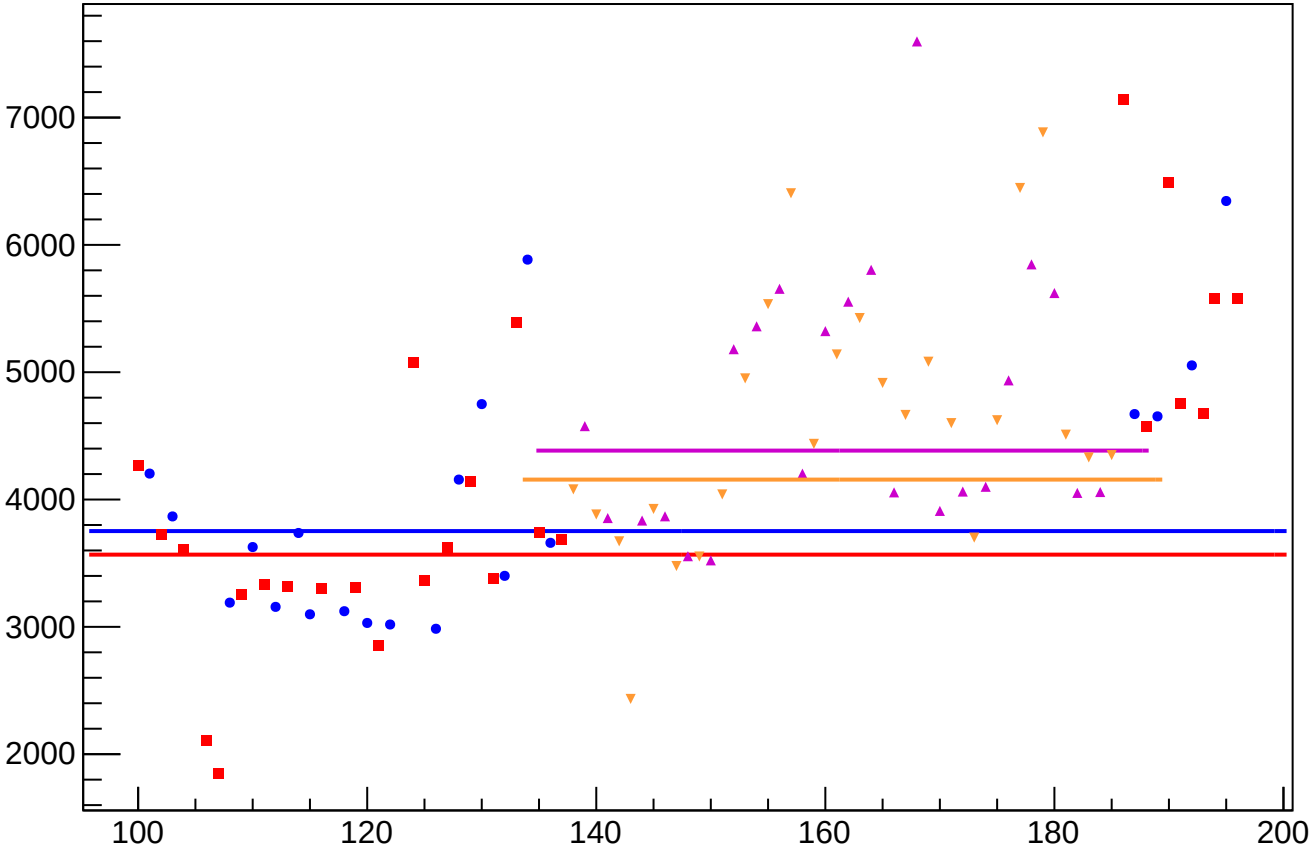
Right: 994.716+/-811.882 $\chi^2$/NDF: 48.1/45

In: 402.228+/-796.945 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.606 $\chi^2$/NDF:59.1/50

All: 437.383+/-536.128 $\chi^2$/NDF: 91.3/93

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3752.236+/-0.871 $\chi^2$/NDF: 910800.7/19

Left Out: 4156.588+/-0.691 $\chi^2$/NDF:2080769.0/24

Right Out: 3567.219+/-0.764 $\chi^2$/NDF: 1961465.1/25

Left In: 4384.329+/-0.739 $\chi^2$/NDF:1255475.0/22

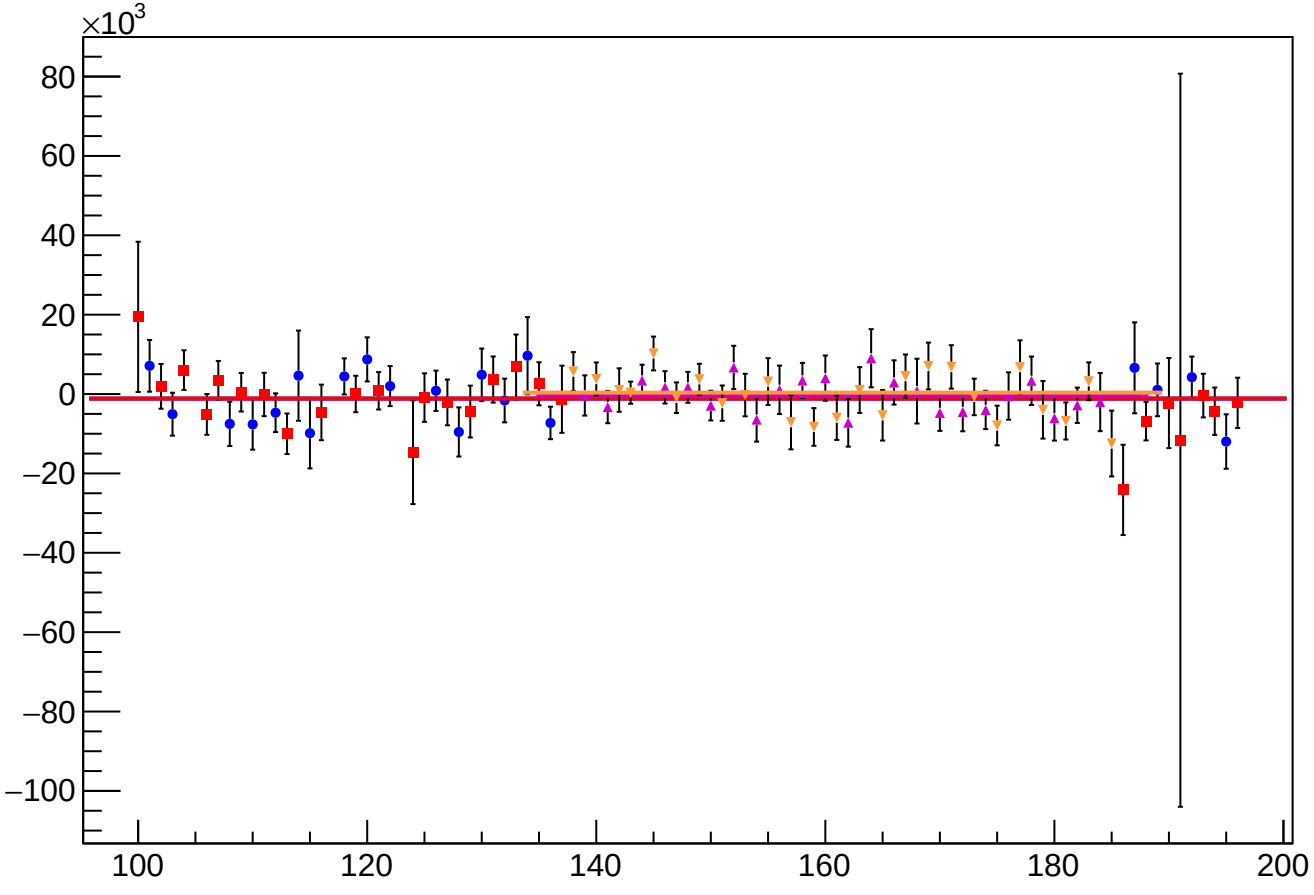
Left: 4262.780+/-0.505 $\chi^2$/NDF: 3386892.6/47

Right: 3647.669+/-0.574 $\chi^2$/NDF: 2897790.9/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472554.8/42

Out: 3891.256+/-0.512 $\chi^2$/NDF:4369734.2/50

All: 3994.552+/-0.379 $\chi^2$/NDF: 6932096.0/93




Right In: -1147.735+/-1317.034 $\chi^2$/NDF: 21.7/19

Left Out: 362.528+/-979.860 $\chi^2$/NDF:27.7/24

Right Out: -1132.375+/-1191.597 $\chi^2$/NDF: 18.0/25

Left In: -497.522+/-1044.707 $\chi^2$/NDF:13.9/22

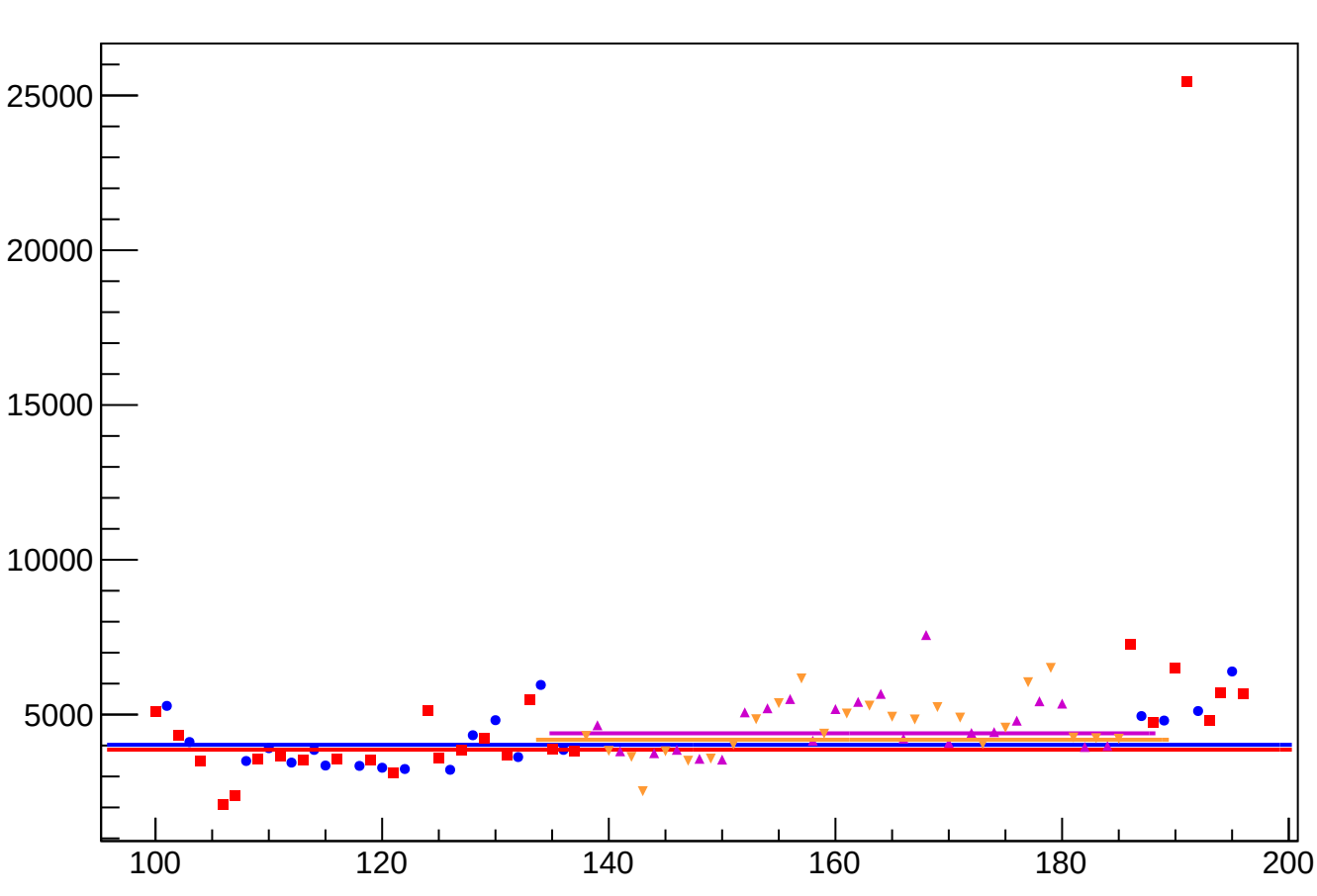
Left: -39.978+/-714.692 $\chi^2$/NDF: 41.9/47

Right: -1139.289+/-883.614 $\chi^2$/NDF: 39.7/45

In: -748.638+/-818.476 $\chi^2$/NDF:35.8/42

Out: -240.530+/-756.837 $\chi^2$/NDF:46.5/50

All: -474.733+/-555.679 $\chi^2$/NDF: 82.5/93




Right In: 4022.872+/-0.931 $\chi^2$/NDF: 805994.9/19

Left Out: 4187.848+/-0.693 $\chi^2$/NDF:1796345.9/24

Right Out: 3864.895+/-0.833 $\chi^2$/NDF: 1631239.7/25

Left In: 4394.324+/-0.739 $\chi^2$/NDF:1088394.9/22

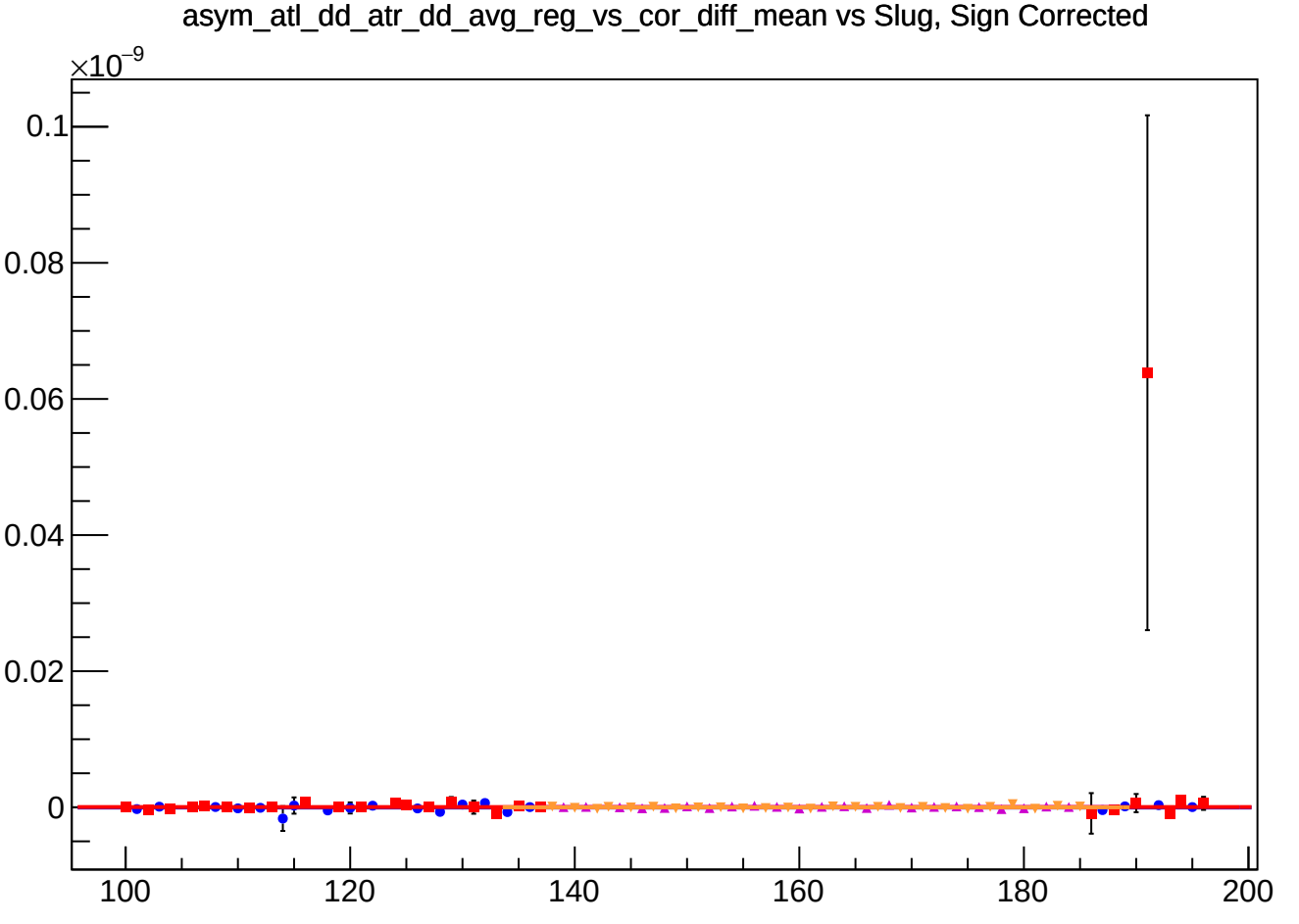
Left: 4284.479+/-0.505 $\chi^2$/NDF: 2926302.1/47

Right: 3935.149+/-0.621 $\chi^2$/NDF: 2453213.5/45

In: 4250.866+/-0.579 $\chi^2$/NDF:1992039.1/42

Out: 4055.860+/-0.533 $\chi^2$/NDF:3516377.9/50

All: 4145.314+/-0.392 $\chi^2$/NDF: 5569868.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.0/22

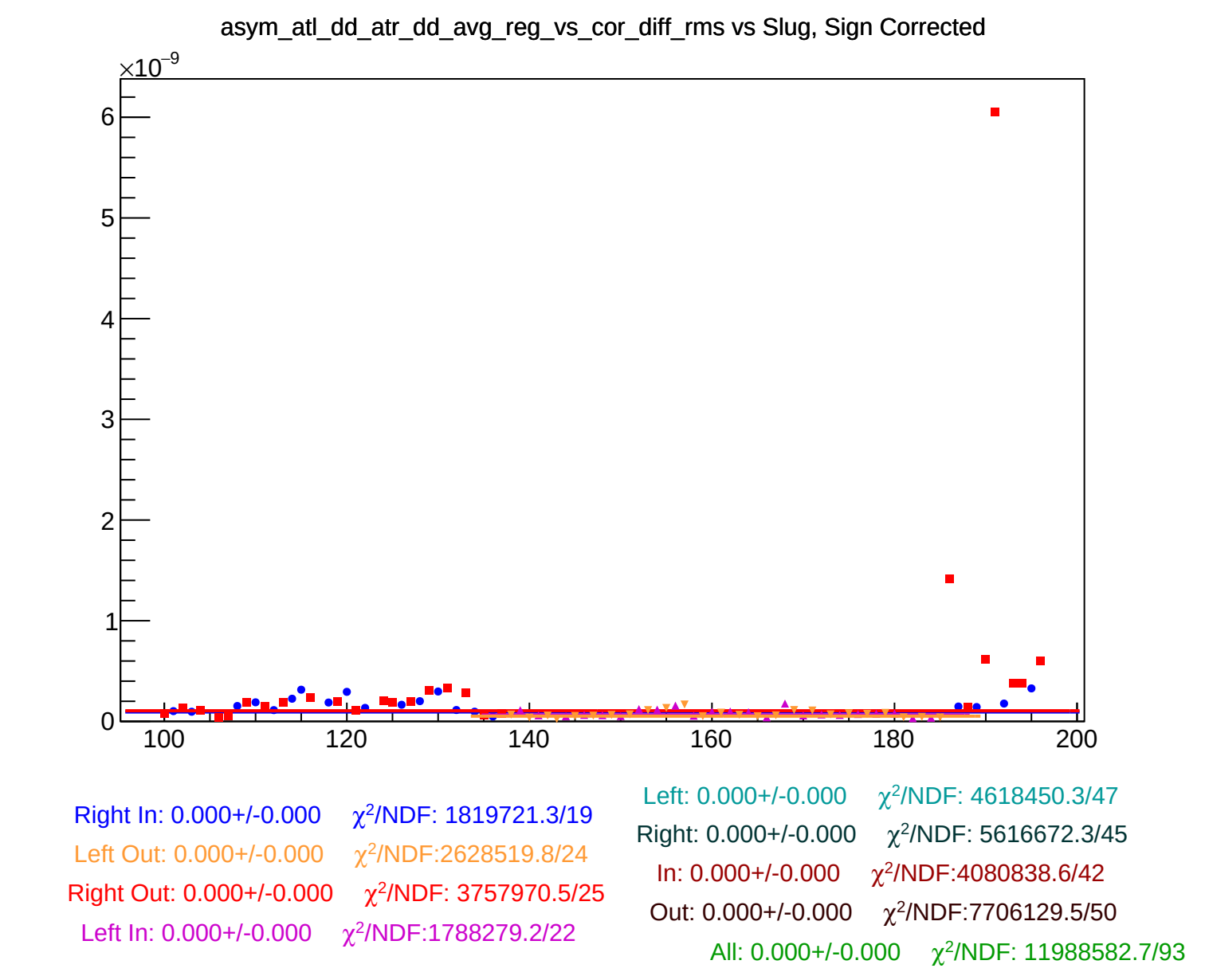
Left: 0.000+/-0.000 $\chi^2$/NDF: 48.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.9/45

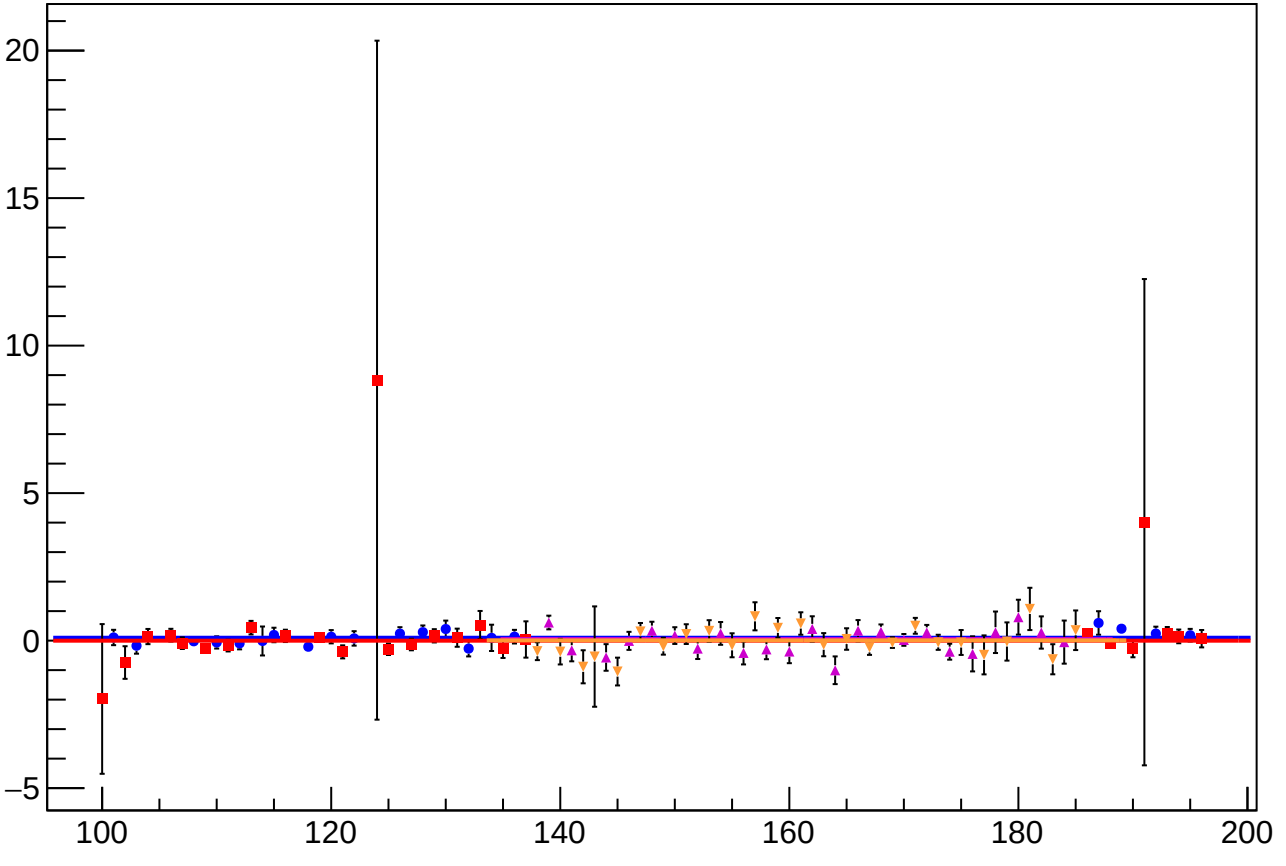
In: 0.000+/-0.000 $\chi^2$/NDF:35.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 92.9/93


asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
6
5
4
3
2
1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1819721.3/19
Left Out: 0.000+/-0.000 χ²/NDF:2628519.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 3757970.5/25
Left In: 0.000+/-0.000 χ²/NDF:1788279.2/22
Left: 0.000+/-0.000 χ²/NDF: 4618450.3/47
Right: 0.000+/-0.000 χ²/NDF: 5616672.3/45
In: 0.000+/-0.000 χ²/NDF:4080838.6/42
Out: 0.000+/-0.000 χ²/NDF:7706129.5/50
All: 0.000+/-0.000 χ²/NDF: 11988582.7/93

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

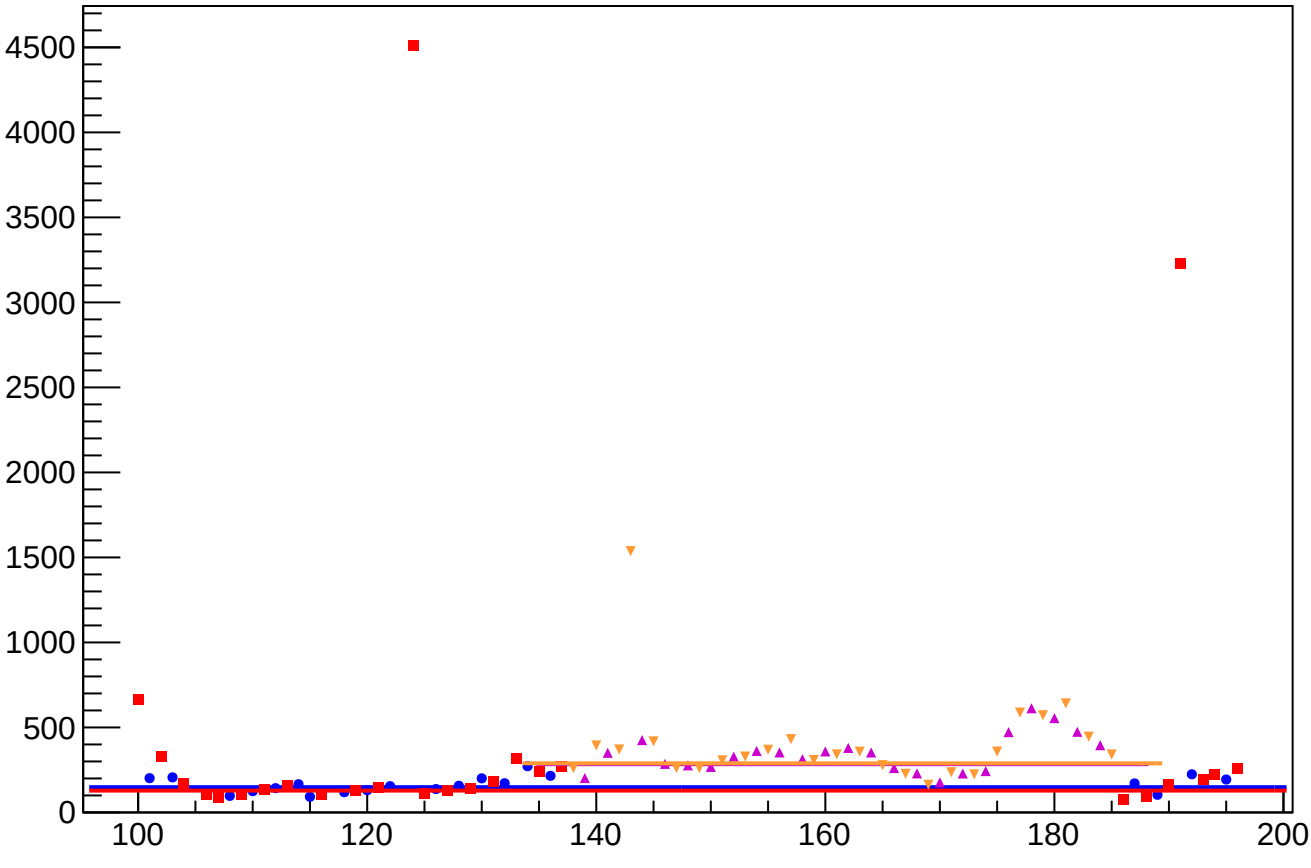
Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

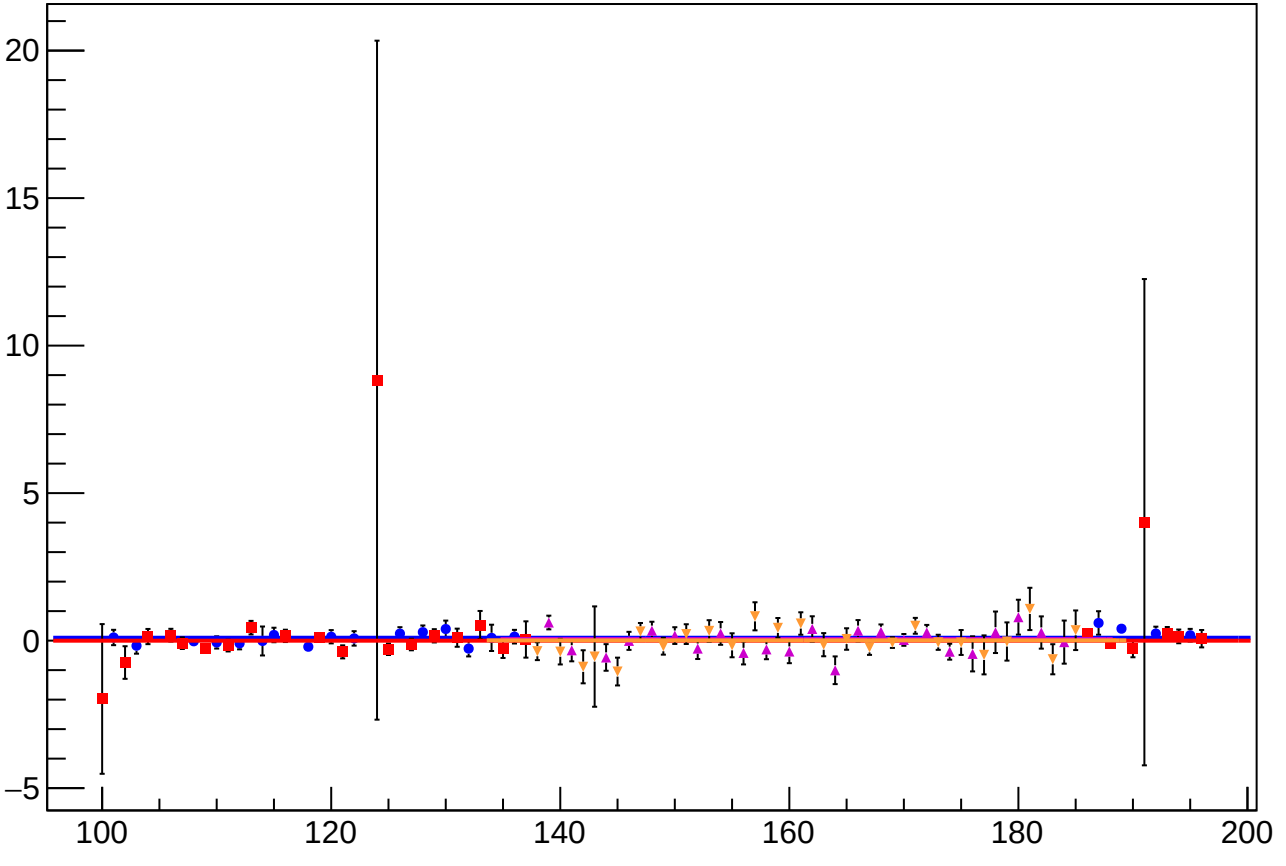
Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

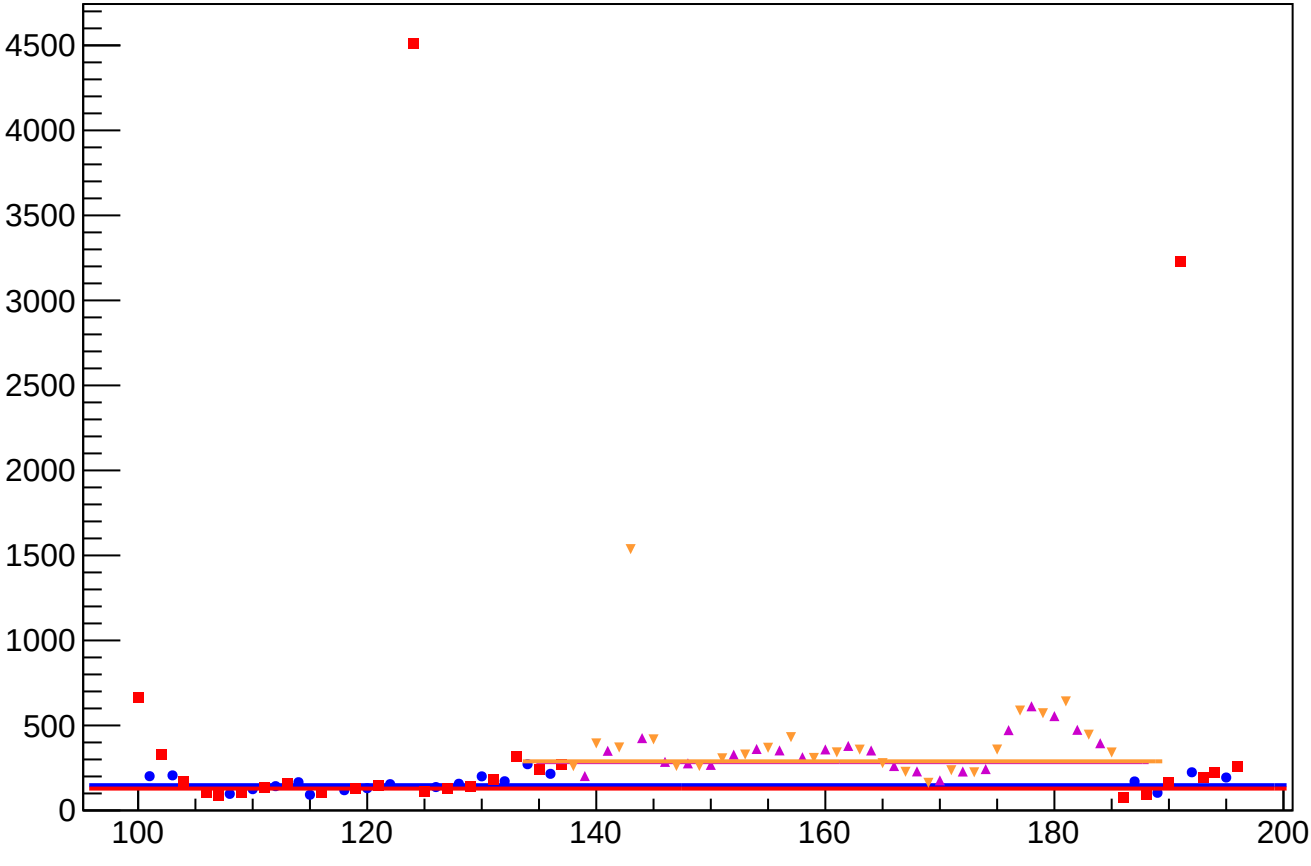
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

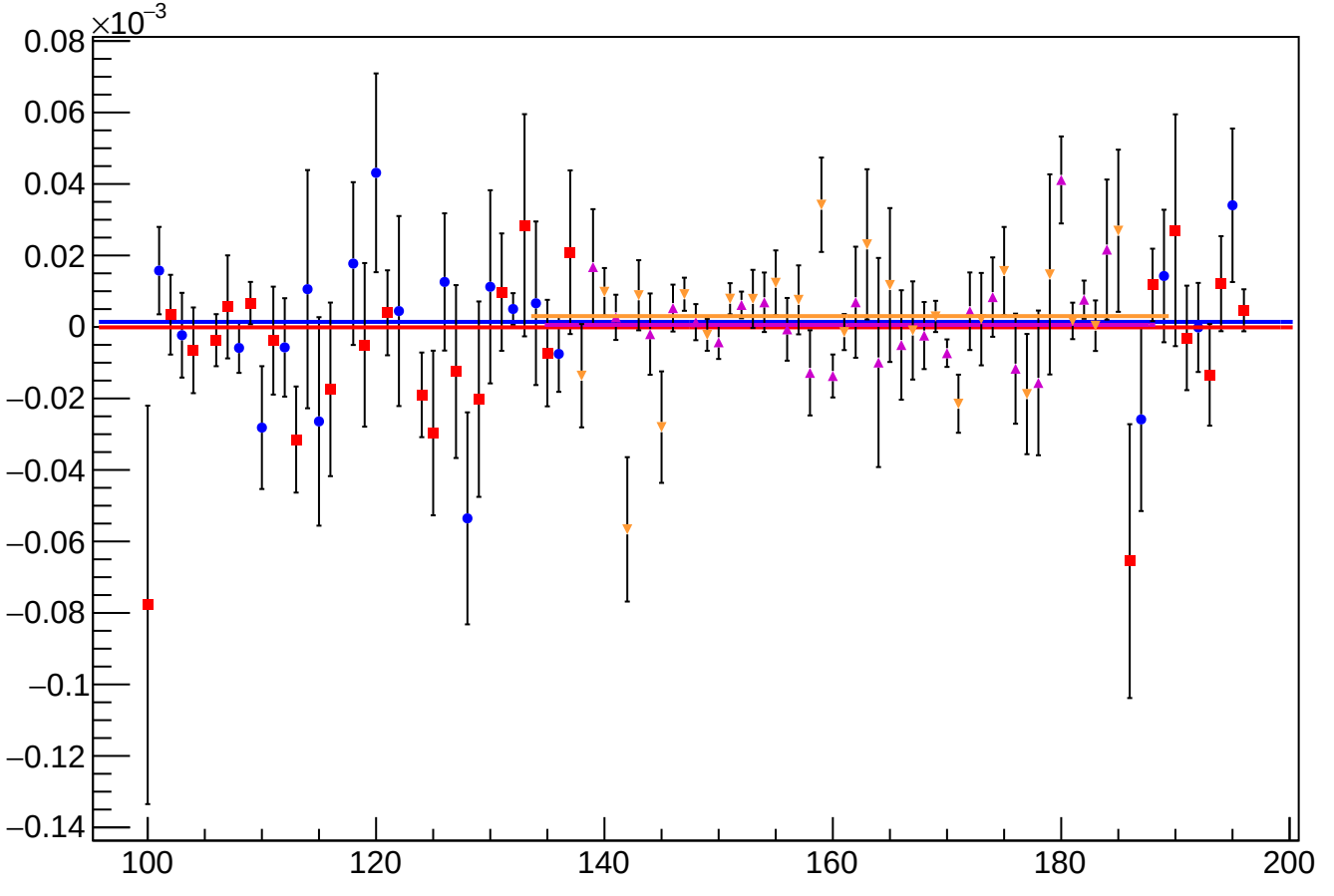
Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93

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: 18.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:33.2/22

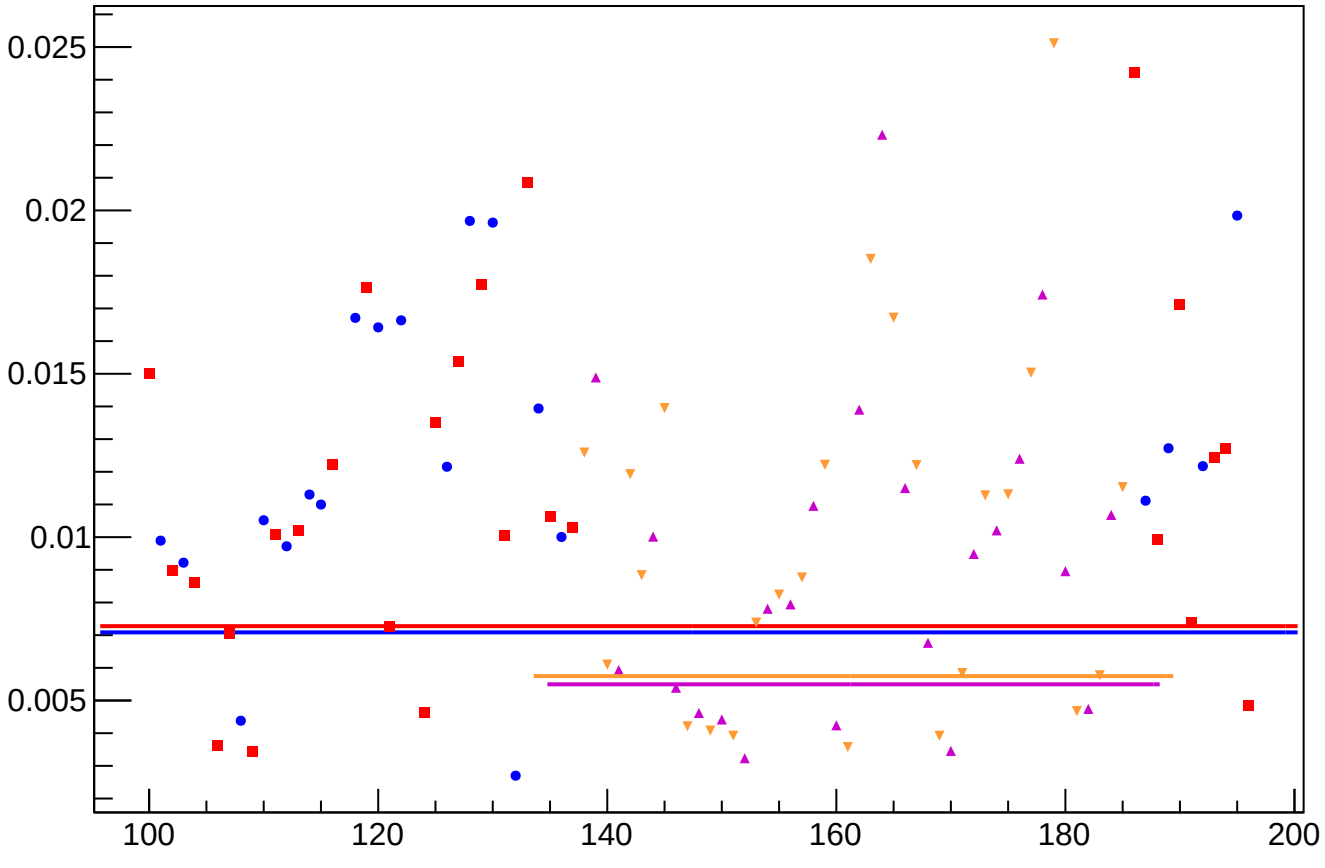
Left: 0.000+/-0.000 $\chi^2$/NDF: 76.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:52.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:67.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 120.0/93




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6031592.9/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8128513.8/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 5084188.5/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:6937299.0/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 15093250.6/47

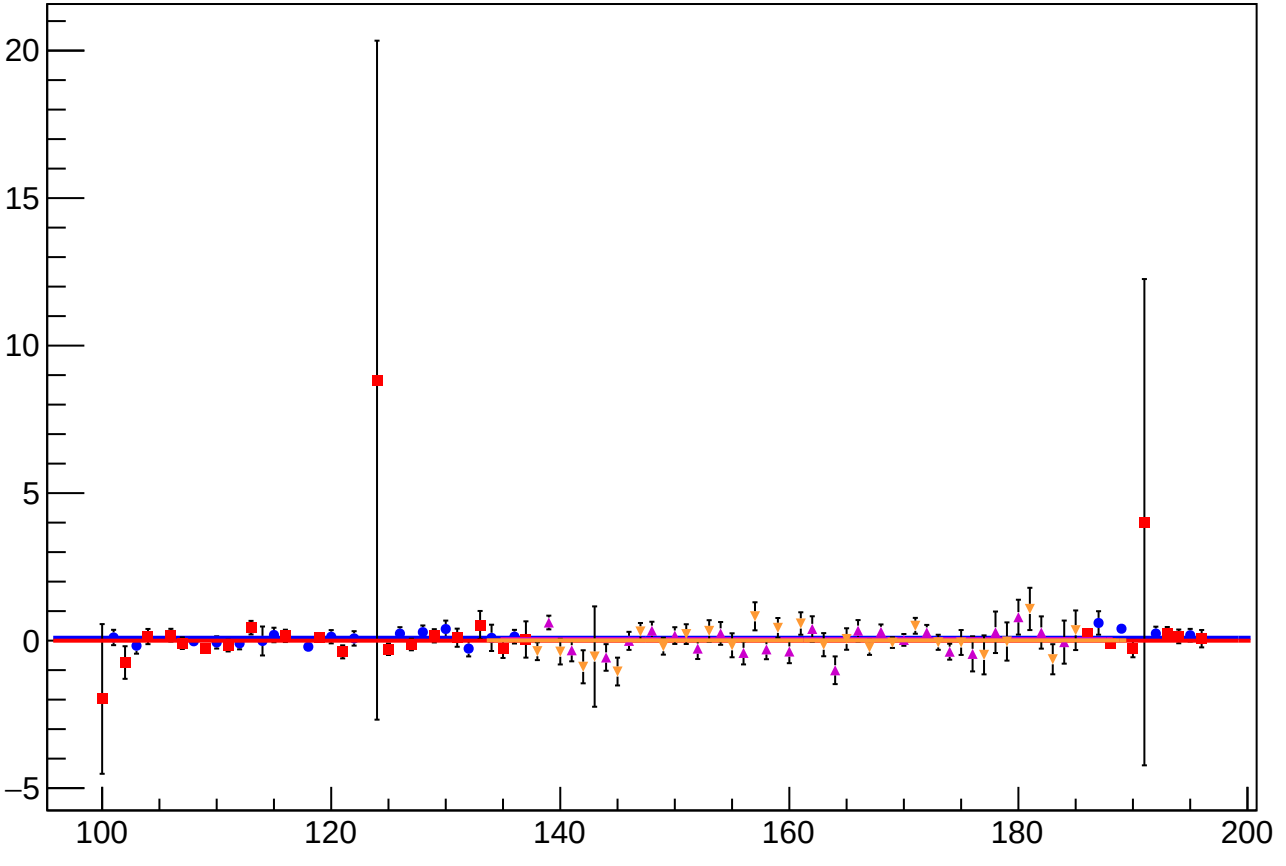
Right: 0.007+/-0.000 $\chi^2$/NDF: 11121070.9/45

In: 0.006+/-0.000 $\chi^2$/NDF:13474040.4/42

Out: 0.006+/-0.000 $\chi^2$/NDF:13772298.6/50

All: 0.006+/-0.000 $\chi^2$/NDF: 27302294.7/93

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

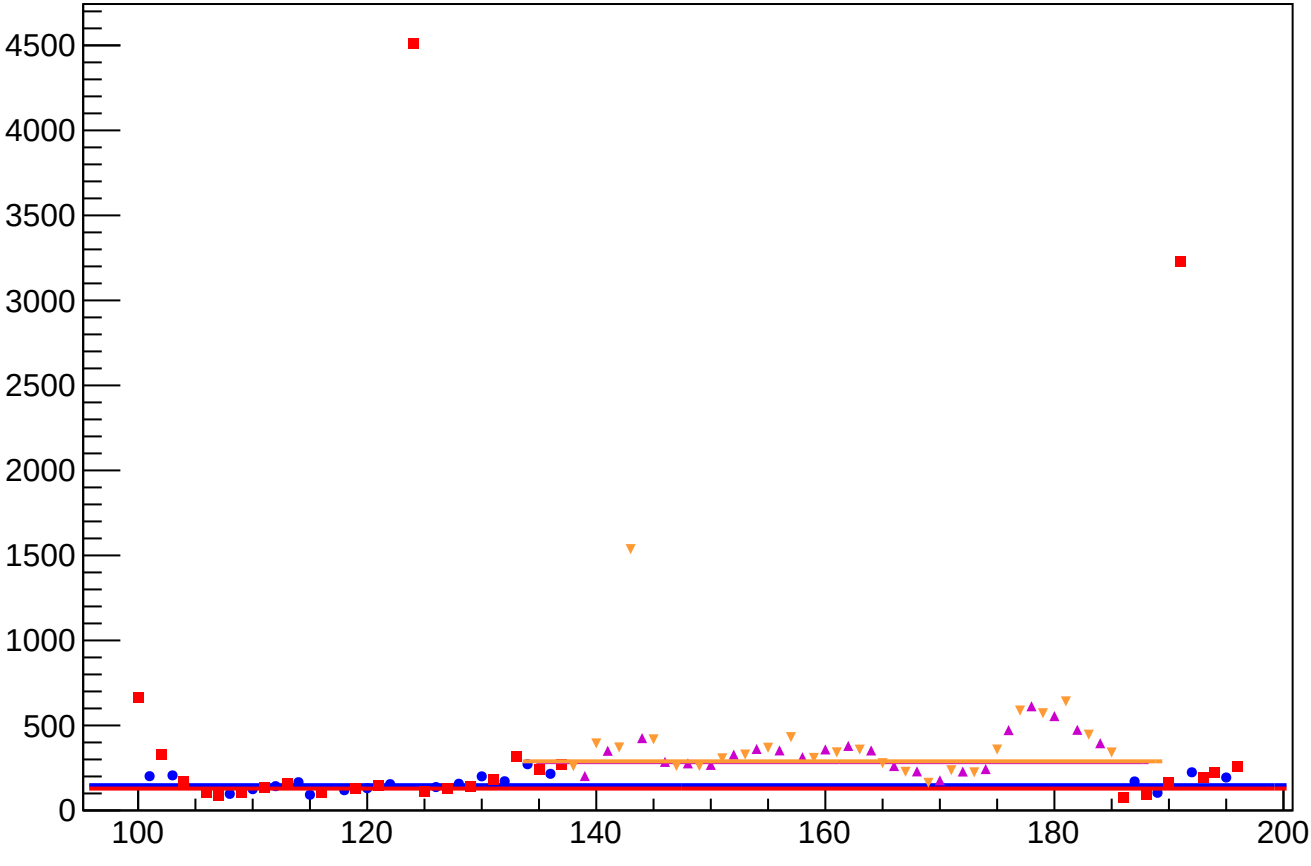
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

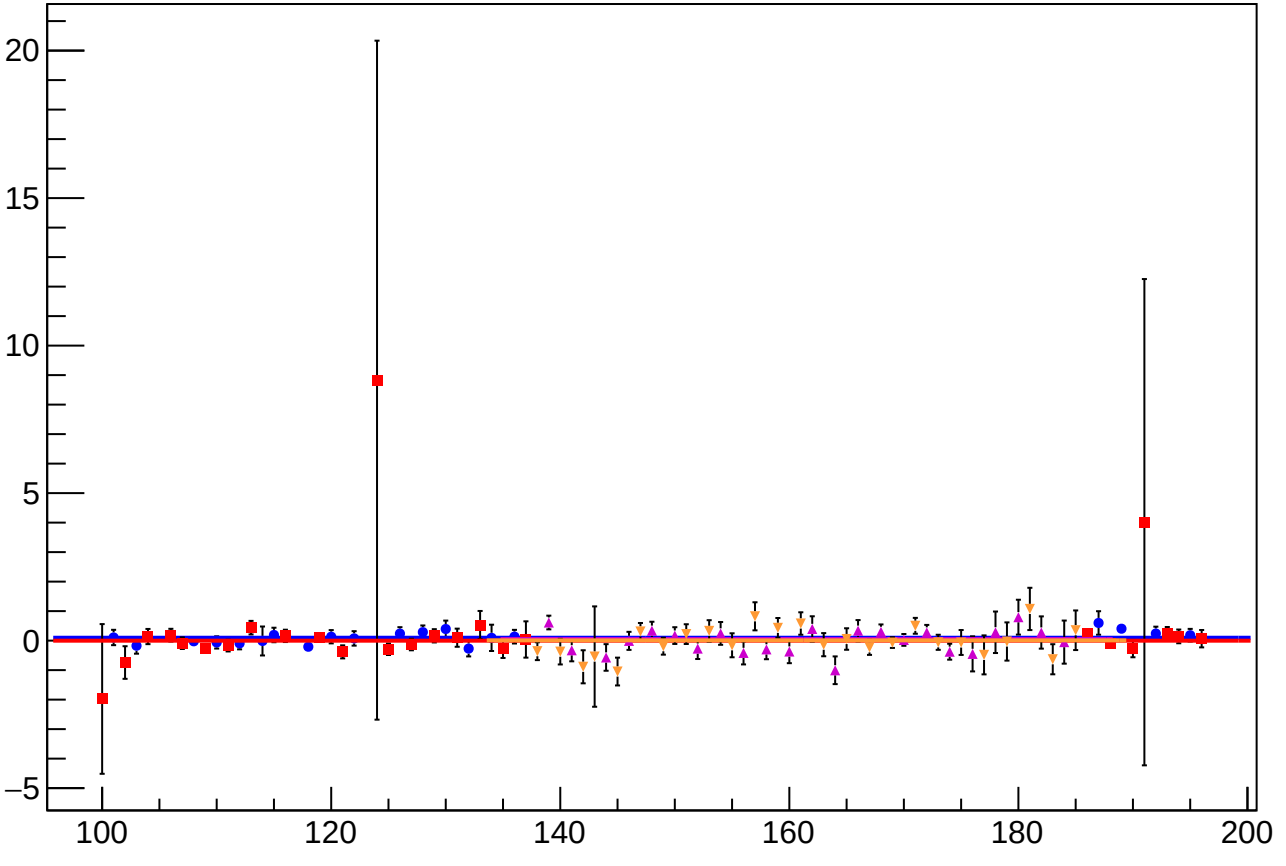
Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

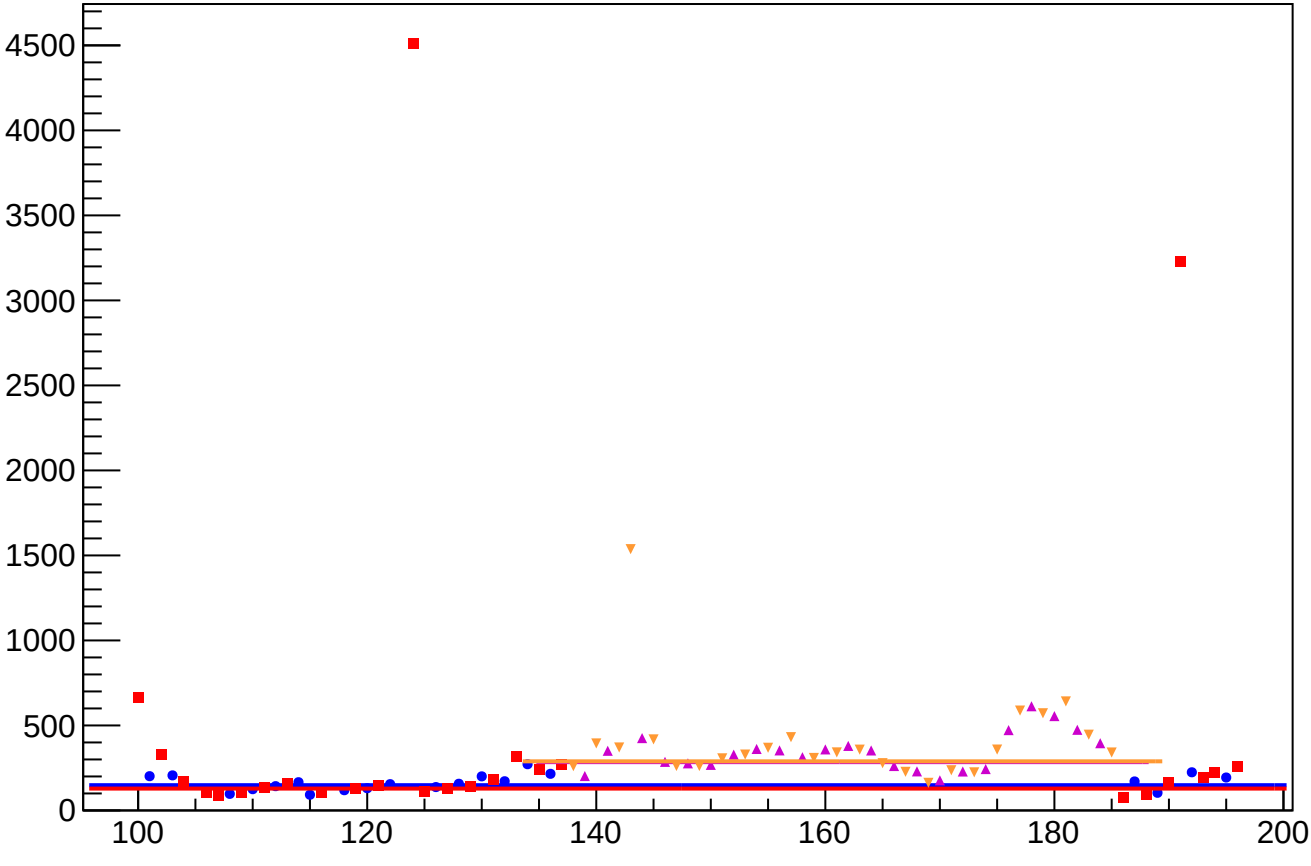
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

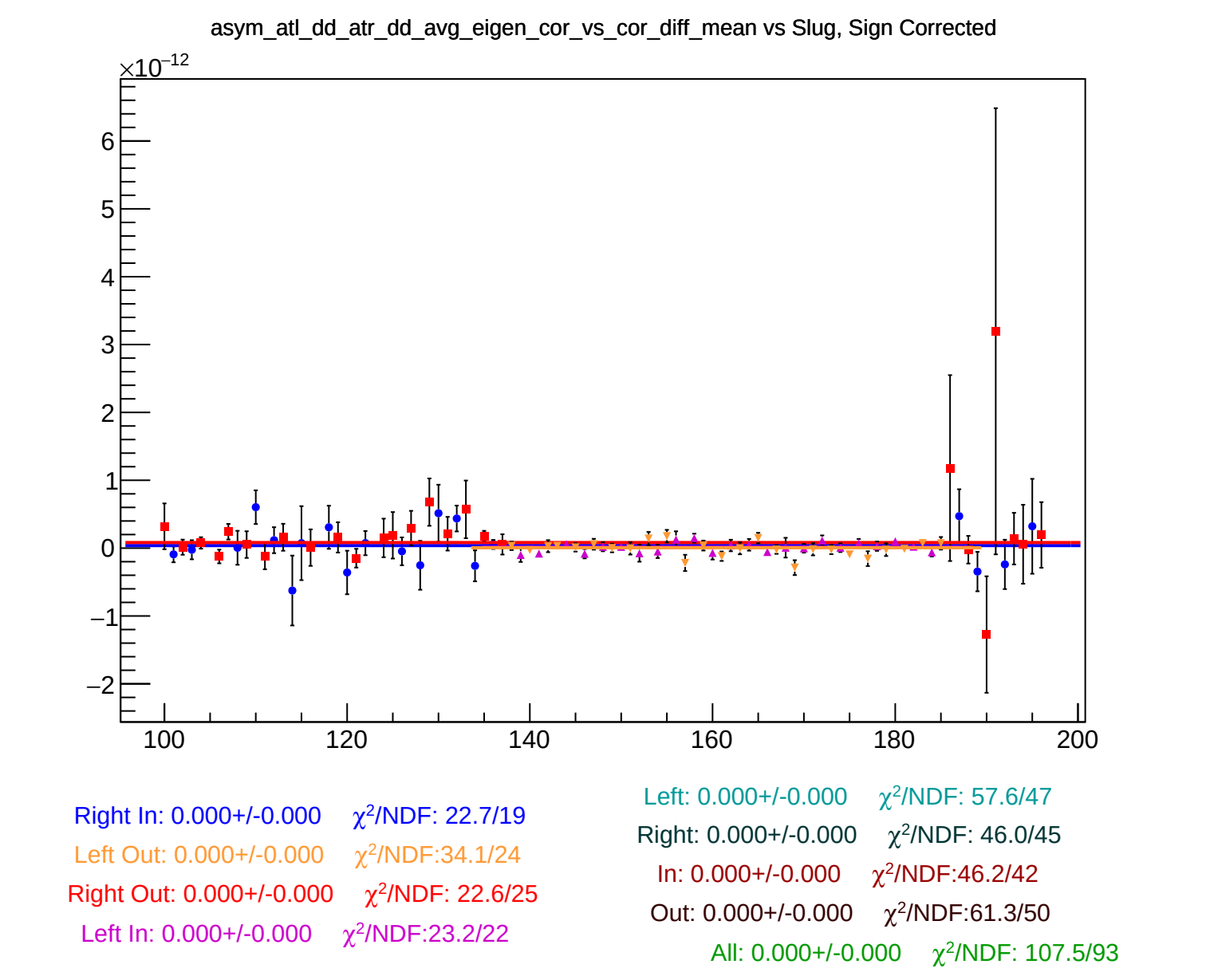
Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

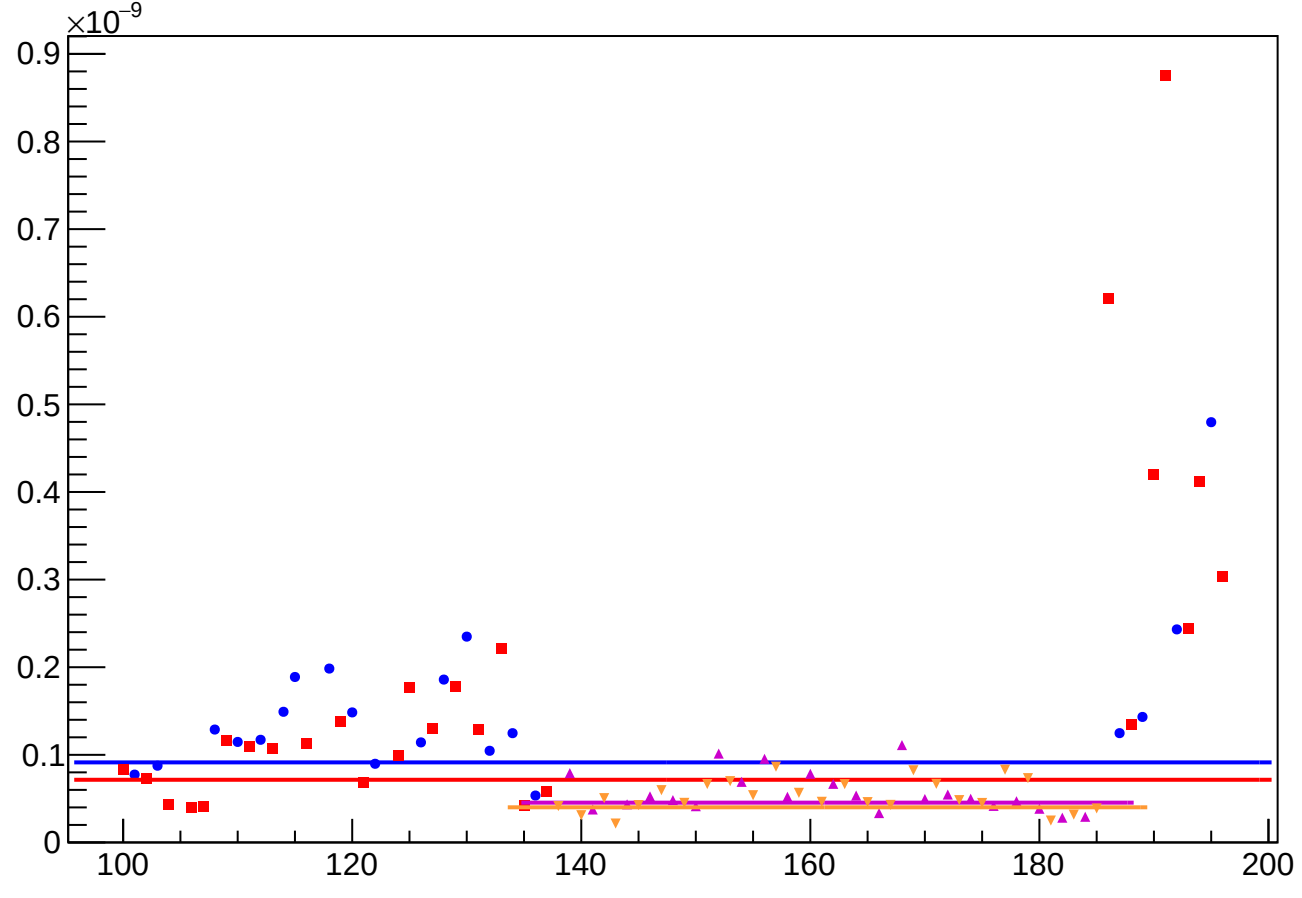
In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93


asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
5
4
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 22.7/19
Left Out: 0.000+/-0.000 χ²/NDF:34.1/24
Right Out: 0.000+/-0.000 χ²/NDF: 22.6/25
Left In: 0.000+/-0.000 χ²/NDF:23.2/22
Left: 0.000+/-0.000 χ²/NDF: 57.6/47
Right: 0.000+/-0.000 χ²/NDF: 46.0/45
In: 0.000+/-0.000 χ²/NDF:46.2/42
Out: 0.000+/-0.000 χ²/NDF:61.3/50
All: 0.000+/-0.000 χ²/NDF: 107.5/93

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2636191.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3609934.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4742507.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2780344.5/22

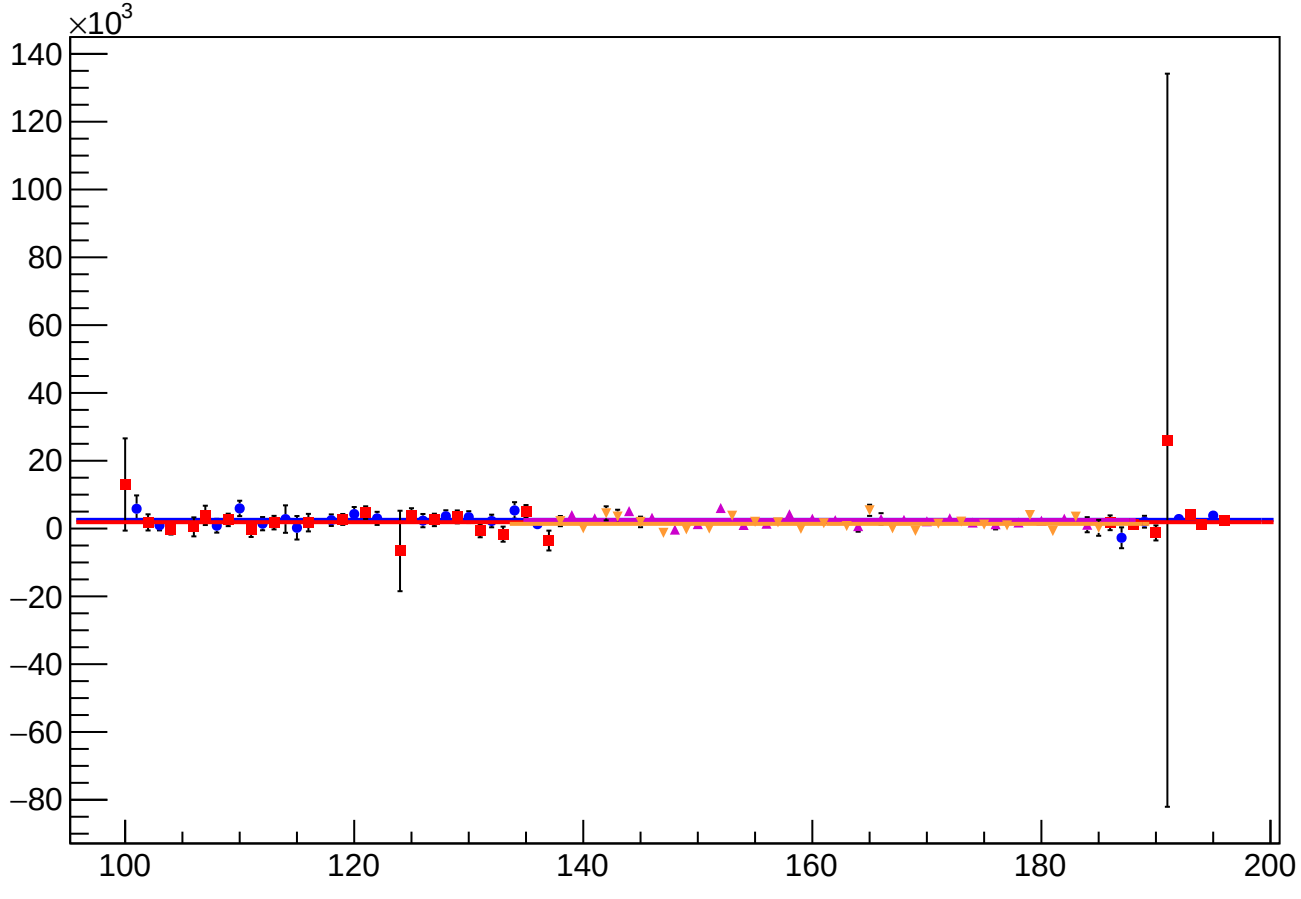
Left: 0.000+/-0.000 $\chi^2$/NDF: 6559252.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 7654386.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:7612218.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9908555.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 17762677.0/93




Right In: 2573.701+/-423.050 $\chi^2$/NDF: 12.9/19

Left Out: 1383.252+/-292.777 $\chi^2$/NDF:32.9/24

Right Out: 1879.166+/-392.473 $\chi^2$/NDF: 24.5/25

Left In: 2519.365+/-298.095 $\chi^2$/NDF:22.5/22

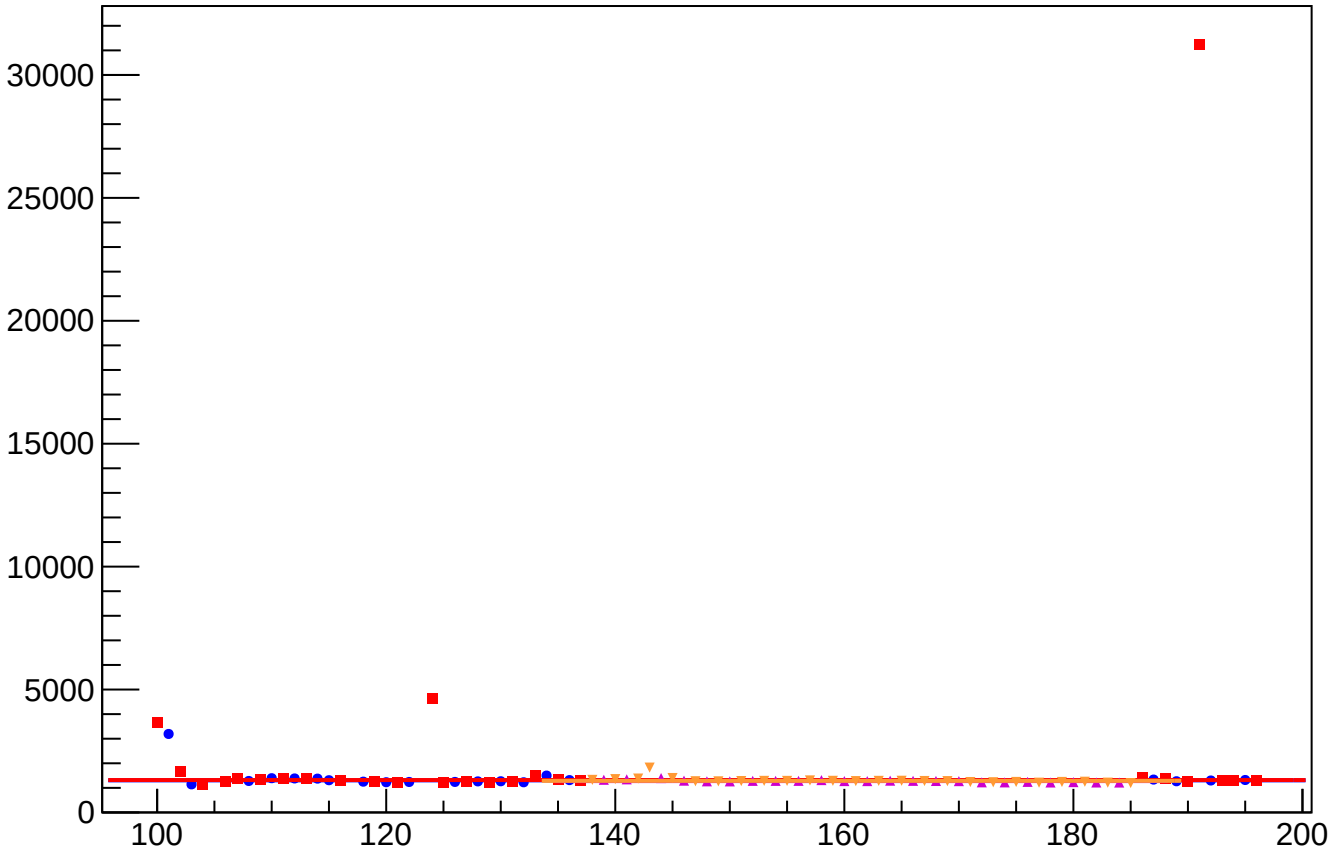
Left: 1941.083+/-208.879 $\chi^2$/NDF: 62.8/47

Right: 2200.429+/-287.724 $\chi^2$/NDF: 38.9/45

In: 2537.392+/-243.678 $\chi^2$/NDF:35.4/42

Out: 1560.555+/-234.673 $\chi^2$/NDF:58.5/50

All: 2030.593+/-169.033 $\chi^2$/NDF: 102.2/93




Right In: 1305.913+/-0.299 $\chi^2$/NDF: 517620.6/19

Left Out: 1285.649+/-0.207 $\chi^2$/NDF:191027.3/24

Right Out: 1318.634+/-0.277 $\chi^2$/NDF: 488390.3/25

Left In: 1275.941+/-0.211 $\chi^2$/NDF:41399.0/22

Left: 1280.882+/-0.148 $\chi^2$/NDF: 233506.1/47

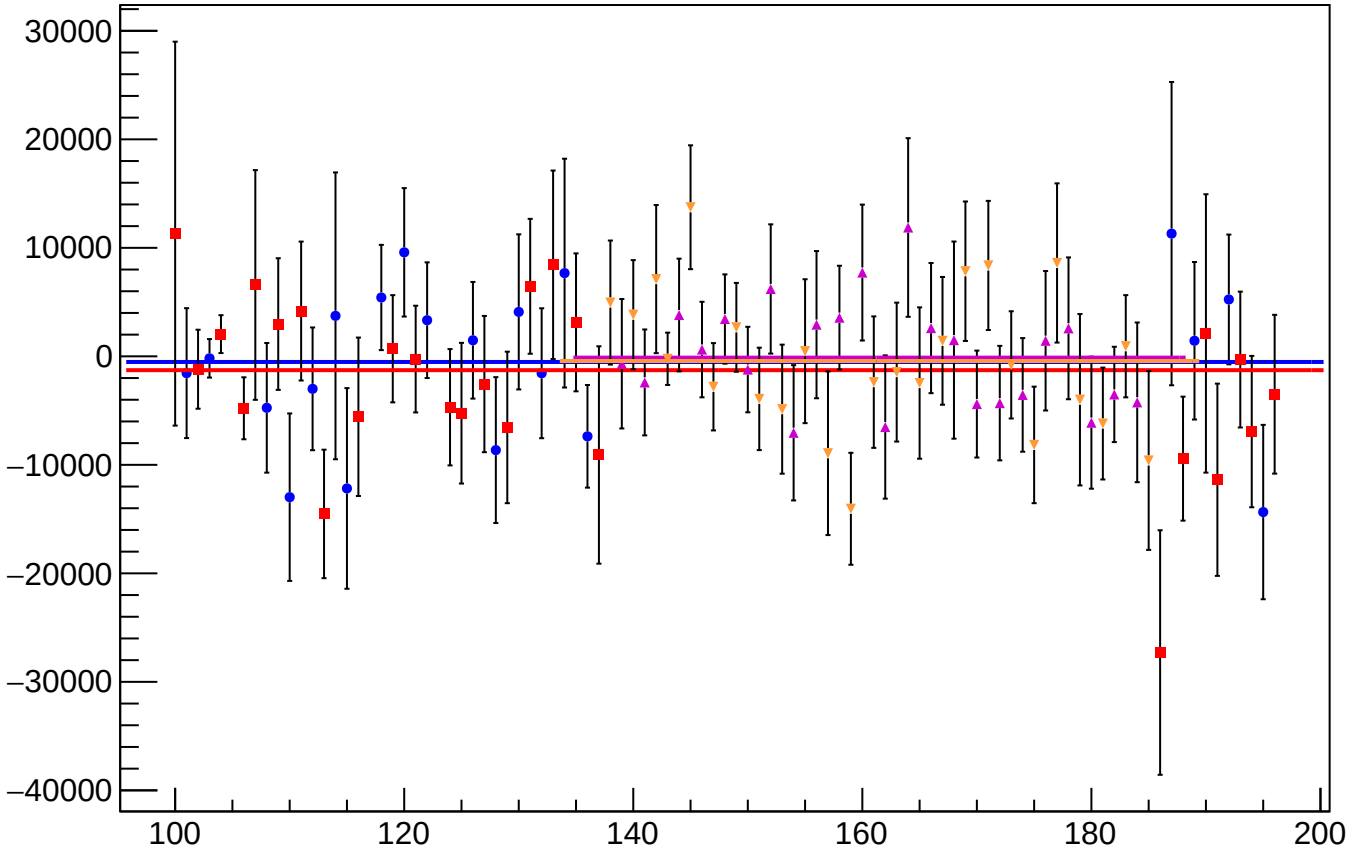
Right: 1312.761+/-0.203 $\chi^2$/NDF: 1006984.2/45

In: 1285.885+/-0.172 $\chi^2$/NDF:565728.0/42

Out: 1297.468+/-0.166 $\chi^2$/NDF:688513.3/50

All: 1291.898+/-0.119 $\chi^2$/NDF: 1256587.1/93

asym_atl_avg_atr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -518.361+/-1139.350 $\chi^2$/NDF: 19.4/19

Left Out: -428.530+/-1038.038 $\chi^2$/NDF:29.8/24

Right Out: -1275.030+/-990.252 $\chi^2$/NDF: 27.8/25

Left In: -119.335+/-1144.695 $\chi^2$/NDF:13.6/22

Left: -289.005+/-768.953 $\chi^2$/NDF: 43.5/47

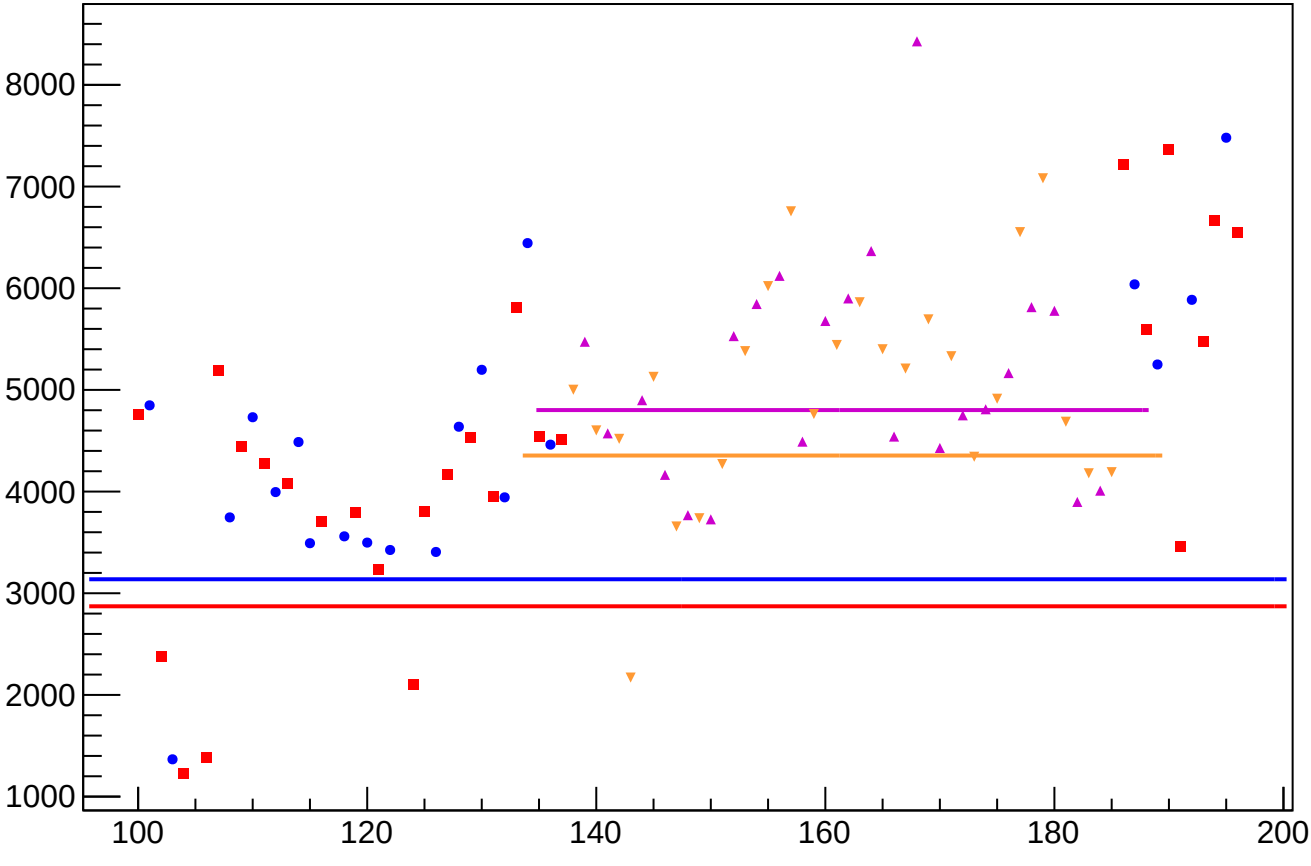
Right: -949.413+/-747.408 $\chi^2$/NDF: 47.4/45

In: -319.782+/-807.525 $\chi^2$/NDF:33.1/42

Out: -871.713+/-716.512 $\chi^2$/NDF:57.9/50

All: -628.591+/-535.952 $\chi^2$/NDF: 91.3/93

asym_atl_avg_atr_avg_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 3137.584+/-0.806 $\chi^2$/NDF: 4279873.5/19

Left Out: 4354.526+/-0.734 $\chi^2$/NDF:3071436.3/24

Right Out: 2871.696+/-0.700 $\chi^2$/NDF: 6101218.8/25

Left In: 4801.573+/-0.809 $\chi^2$/NDF:1231883.2/22

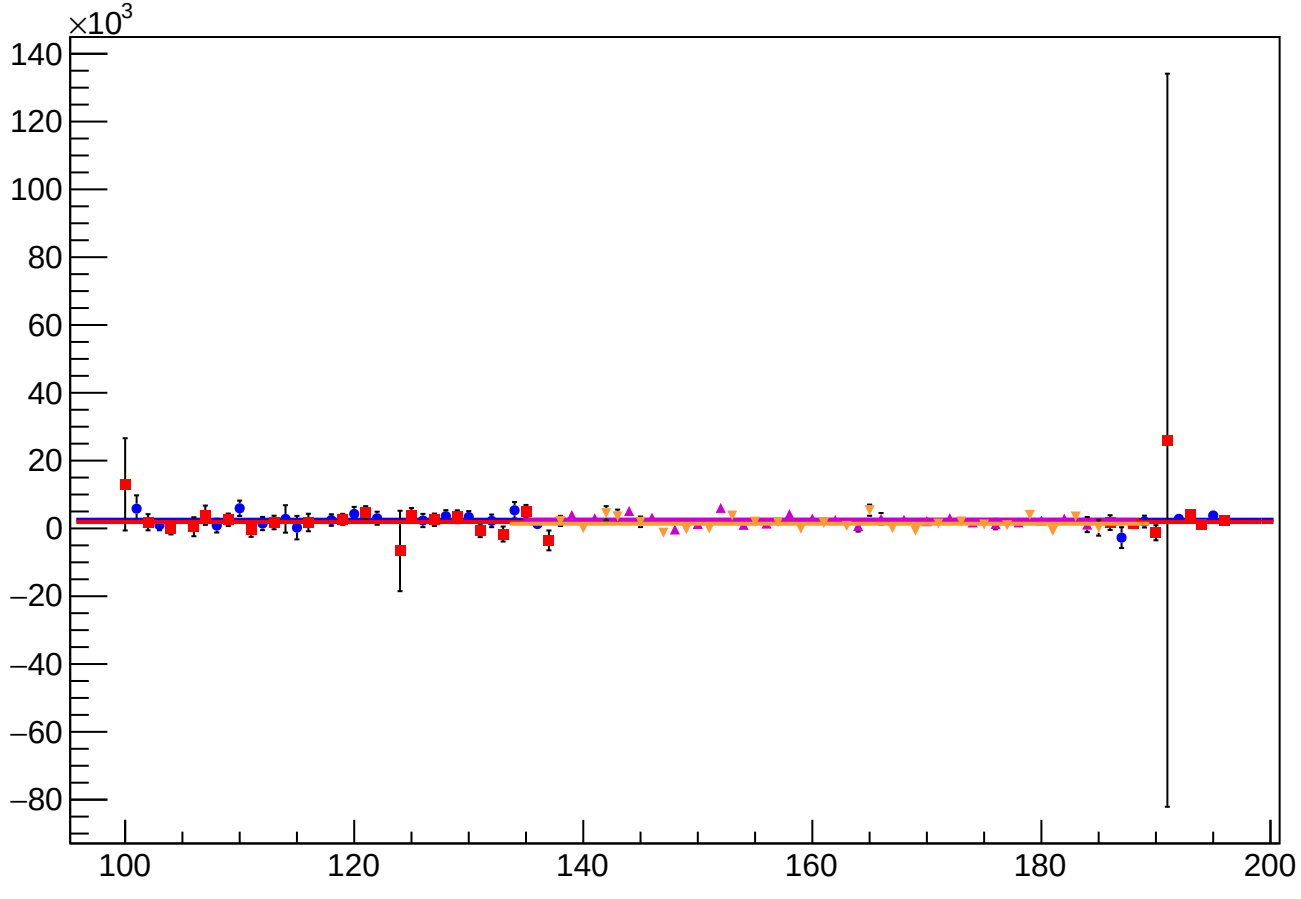
Left: 4556.257+/-0.544 $\chi^2$/NDF: 4470709.2/47

Right: 2986.115+/-0.528 $\chi^2$/NDF: 10443141.9/45

In: 3965.684+/-0.571 $\chi^2$/NDF:7634752.3/42

Out: 3578.195+/-0.507 $\chi^2$/NDF:11309349.3/50

All: 3748.881+/-0.379 $\chi^2$/NDF: 19201759.4/9




Right In: 2573.530+/-423.050 $\chi^2$/NDF: 12.9/19

Left Out: 1383.188+/-292.777 $\chi^2$/NDF:32.9/24

Right Out: 1878.998+/-392.473 $\chi^2$/NDF: 24.5/25

Left In: 2519.366+/-298.095 $\chi^2$/NDF:22.5/22

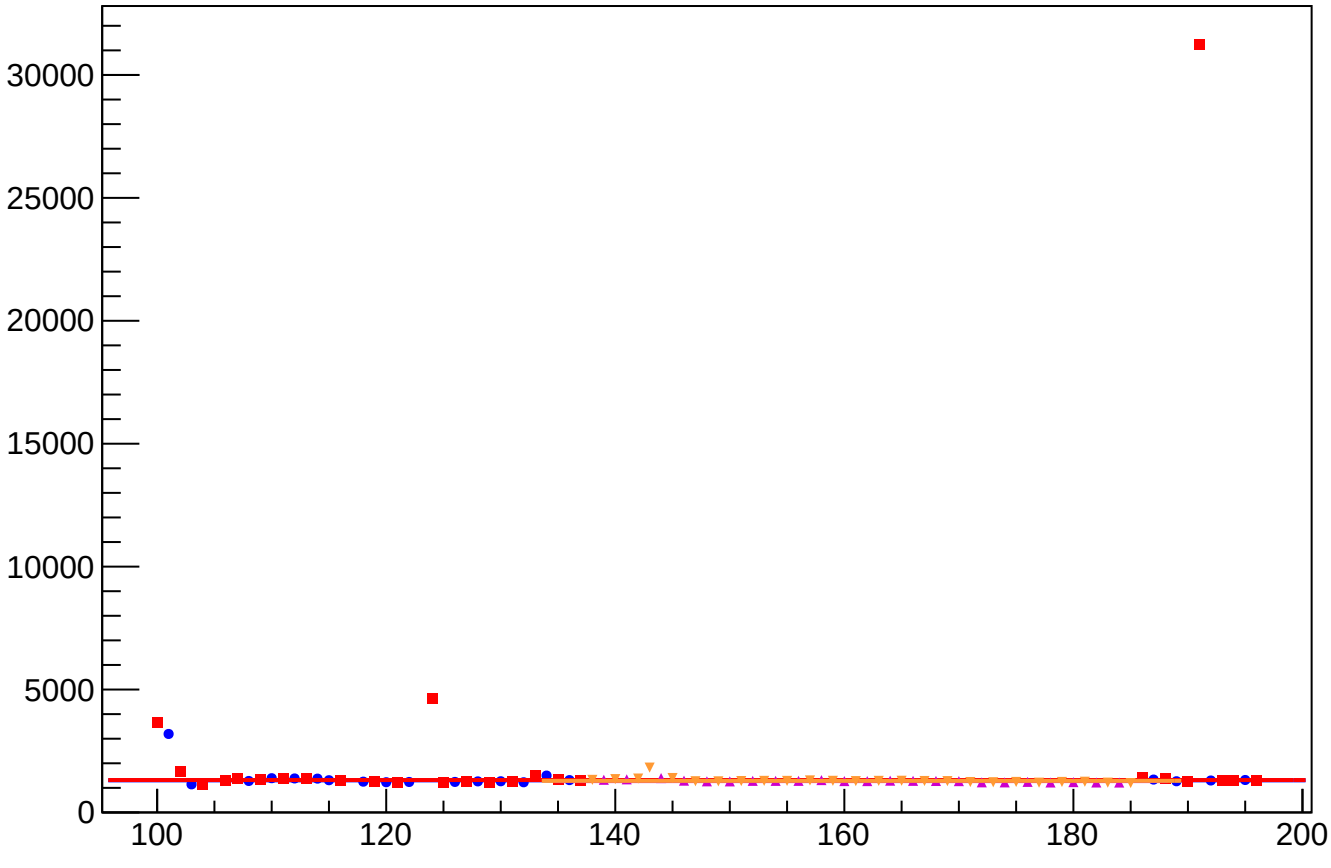
Left: 1941.050+/-208.879 $\chi^2$/NDF: 62.8/47

Right: 2200.260+/-287.724 $\chi^2$/NDF: 38.9/45

In: 2537.337+/-243.678 $\chi^2$/NDF:35.4/42

Out: 1560.453+/-234.673 $\chi^2$/NDF:58.5/50

All: 2030.513+/-169.033 $\chi^2$/NDF: 102.2/93




Right In: 1305.913+/-0.299 $\chi^2$/NDF: 517622.1/19

Left Out: 1285.649+/-0.207 $\chi^2$/NDF:191027.3/24

Right Out: 1319.348+/-0.277 $\chi^2$/NDF: 487851.9/25

Left In: 1275.941+/-0.211 $\chi^2$/NDF:41399.0/22

Left: 1280.882+/-0.148 $\chi^2$/NDF: 233506.1/47

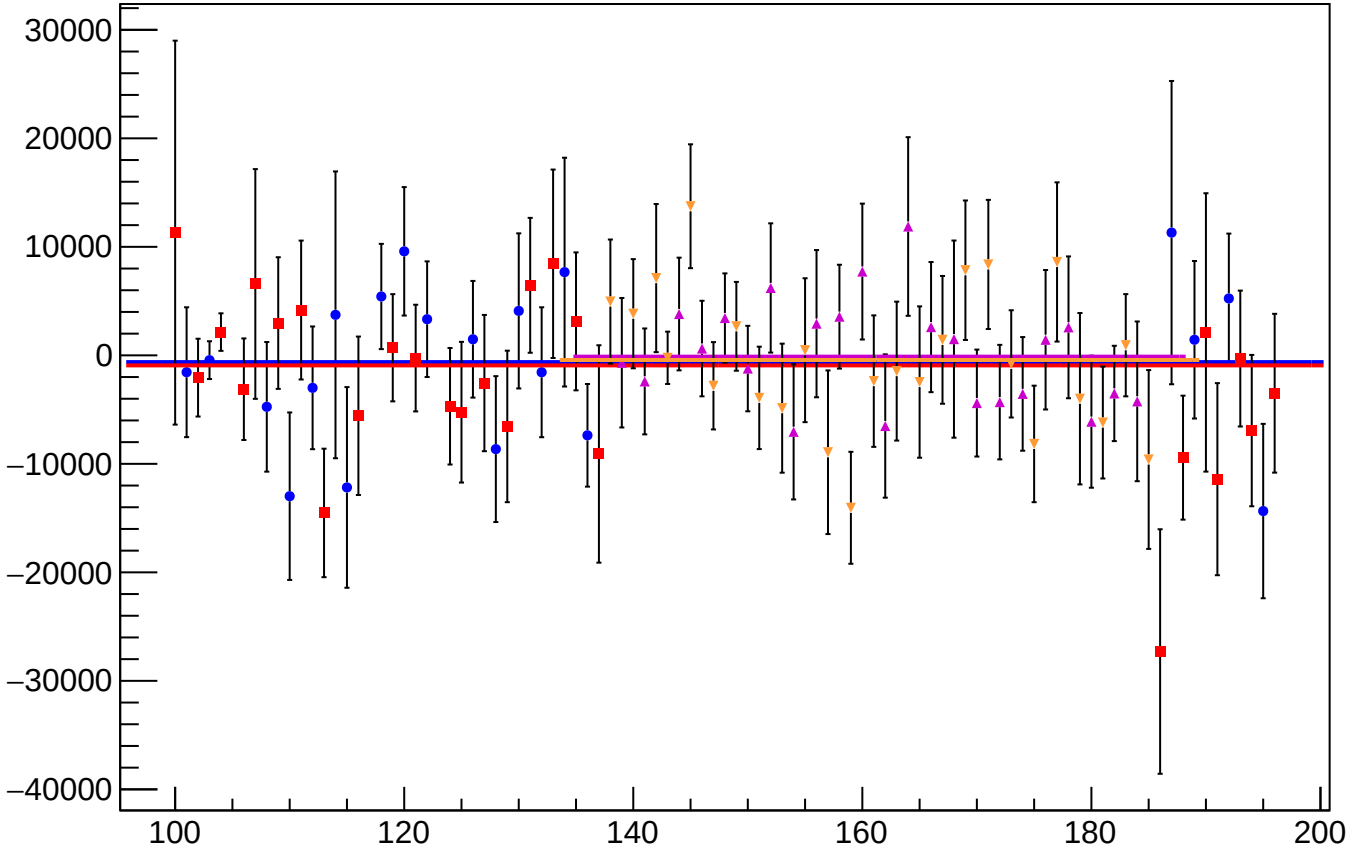
Right: 1313.142+/-0.203 $\chi^2$/NDF: 1006559.3/45

In: 1285.885+/-0.172 $\chi^2$/NDF:565729.4/42

Out: 1297.716+/-0.166 $\chi^2$/NDF:688367.1/50

All: 1292.026+/-0.119 $\chi^2$/NDF: 1256543.6/93

asym_atl_avg_atr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -623.020+/-1130.252 $\chi^2$/NDF: 19.4/19

Left Out: -428.525+/-1038.036 $\chi^2$/NDF:29.8/24

Right Out: -927.189+/-1025.309 $\chi^2$/NDF: 26.6/25

Left In: -119.307+/-1144.695 $\chi^2$/NDF:13.6/22

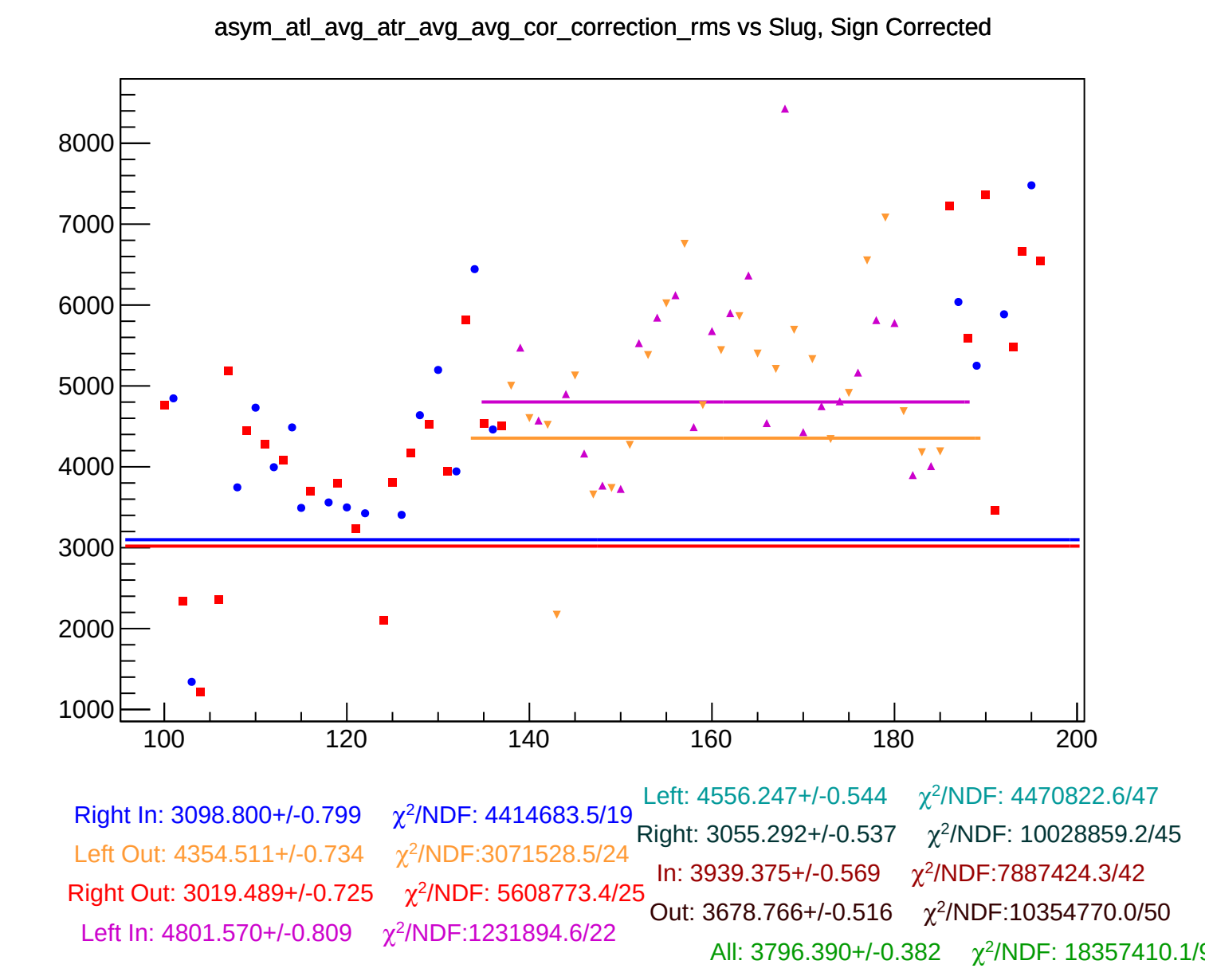
Left: -288.990+/-768.952 $\chi^2$/NDF: 43.5/47

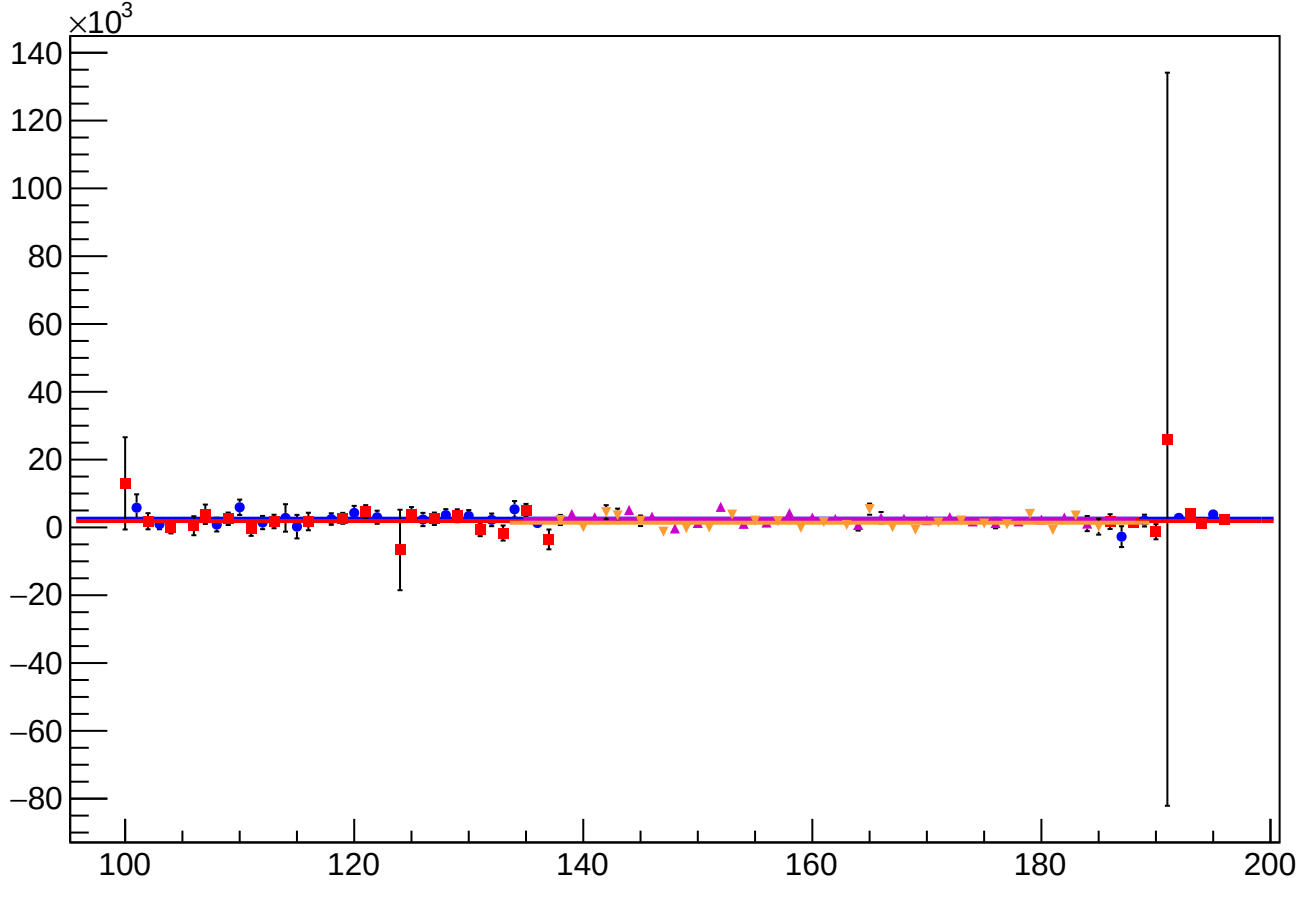
Right: -789.877+/-759.400 $\chi^2$/NDF: 46.0/45

In: -374.361+/-804.266 $\chi^2$/NDF:33.1/42

Out: -680.932+/-729.461 $\chi^2$/NDF:56.6/50

All: -542.564+/-540.322 $\chi^2$/NDF: 89.7/93


asym_atl_avg_atr_avg_avg_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 3098.800+/-0.799 χ²/NDF: 4414683.5/19
Left Out: 4354.511+/-0.734 χ²/NDF:3071528.5/24
Right Out: 3019.489+/-0.725 χ²/NDF: 5608773.4/25
Left In: 4801.570+/-0.809 χ²/NDF:1231894.6/22
Left: 4556.247+/-0.544 χ²/NDF: 4470822.6/47
Right: 3055.292+/-0.537 χ²/NDF: 10028859.2/45
In: 3939.375+/-0.569 χ²/NDF:7887424.3/42
Out: 3678.766+/-0.516 χ²/NDF:10354770.0/50
All: 3796.390+/-0.382 χ²/NDF: 18357410.1/9




Right In: 2573.530+/-423.050 $\chi^2$/NDF: 12.9/19

Left Out: 1383.188+/-292.777 $\chi^2$/NDF:32.9/24

Right Out: 1878.998+/-392.473 $\chi^2$/NDF: 24.5/25

Left In: 2519.366+/-298.095 $\chi^2$/NDF:22.5/22

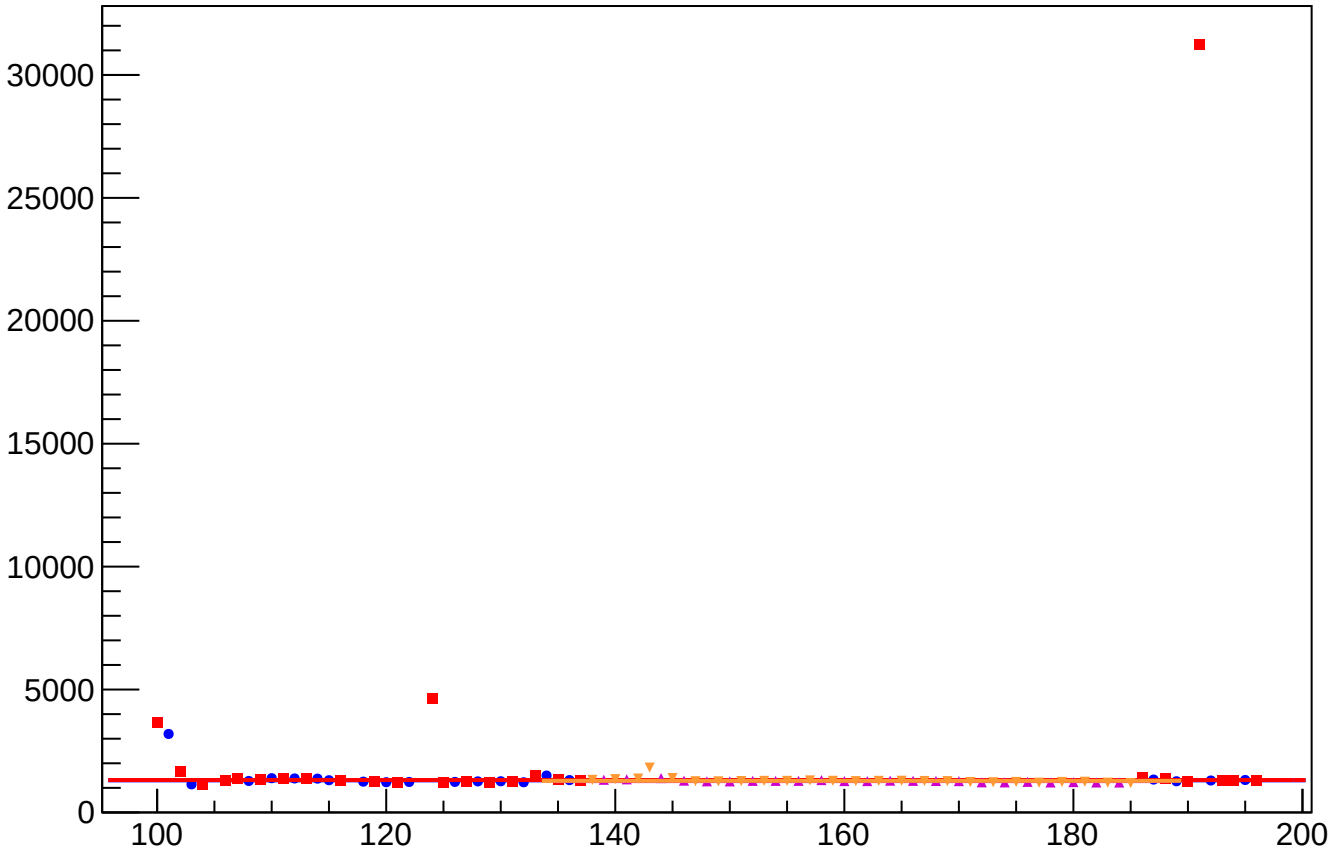
Left: 1941.050+/-208.879 $\chi^2$/NDF: 62.8/47

Right: 2200.260+/-287.724 $\chi^2$/NDF: 38.9/45

In: 2537.337+/-243.678 $\chi^2$/NDF:35.4/42

Out: 1560.453+/-234.673 $\chi^2$/NDF:58.5/50

All: 2030.513+/-169.033 $\chi^2$/NDF: 102.2/93




Right In: 1305.913+/-0.299 $\chi^2$/NDF: 517622.1/19

Left Out: 1285.649+/-0.207 $\chi^2$/NDF:191027.3/24

Right Out: 1319.348+/-0.277 $\chi^2$/NDF: 487851.9/25

Left In: 1275.941+/-0.211 $\chi^2$/NDF:41399.0/22

Left: 1280.882+/-0.148 $\chi^2$/NDF: 233506.1/47

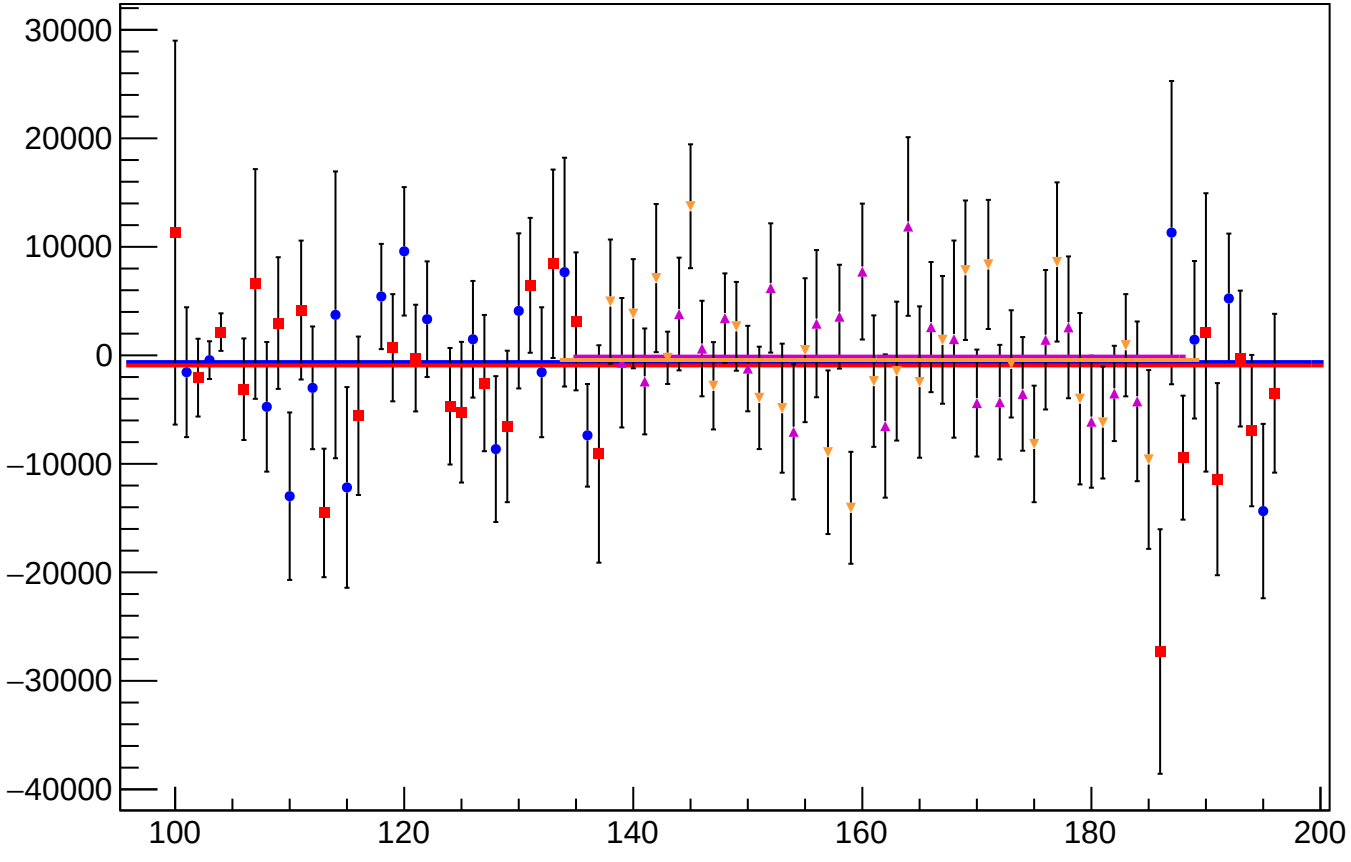
Right: 1313.142+/-0.203 $\chi^2$/NDF: 1006559.3/45

In: 1285.885+/-0.172 $\chi^2$/NDF:565729.4/42

Out: 1297.716+/-0.166 $\chi^2$/NDF:688367.1/50

All: 1292.026+/-0.119 $\chi^2$/NDF: 1256543.6/93

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -623.020+/-1130.252 $\chi^2$/NDF: 19.4/19

Left Out: -428.525+/-1038.036 $\chi^2$/NDF:29.8/24

Right Out: -927.189+/-1025.309 $\chi^2$/NDF: 26.6/25

Left In: -119.307+/-1144.695 $\chi^2$/NDF:13.6/22

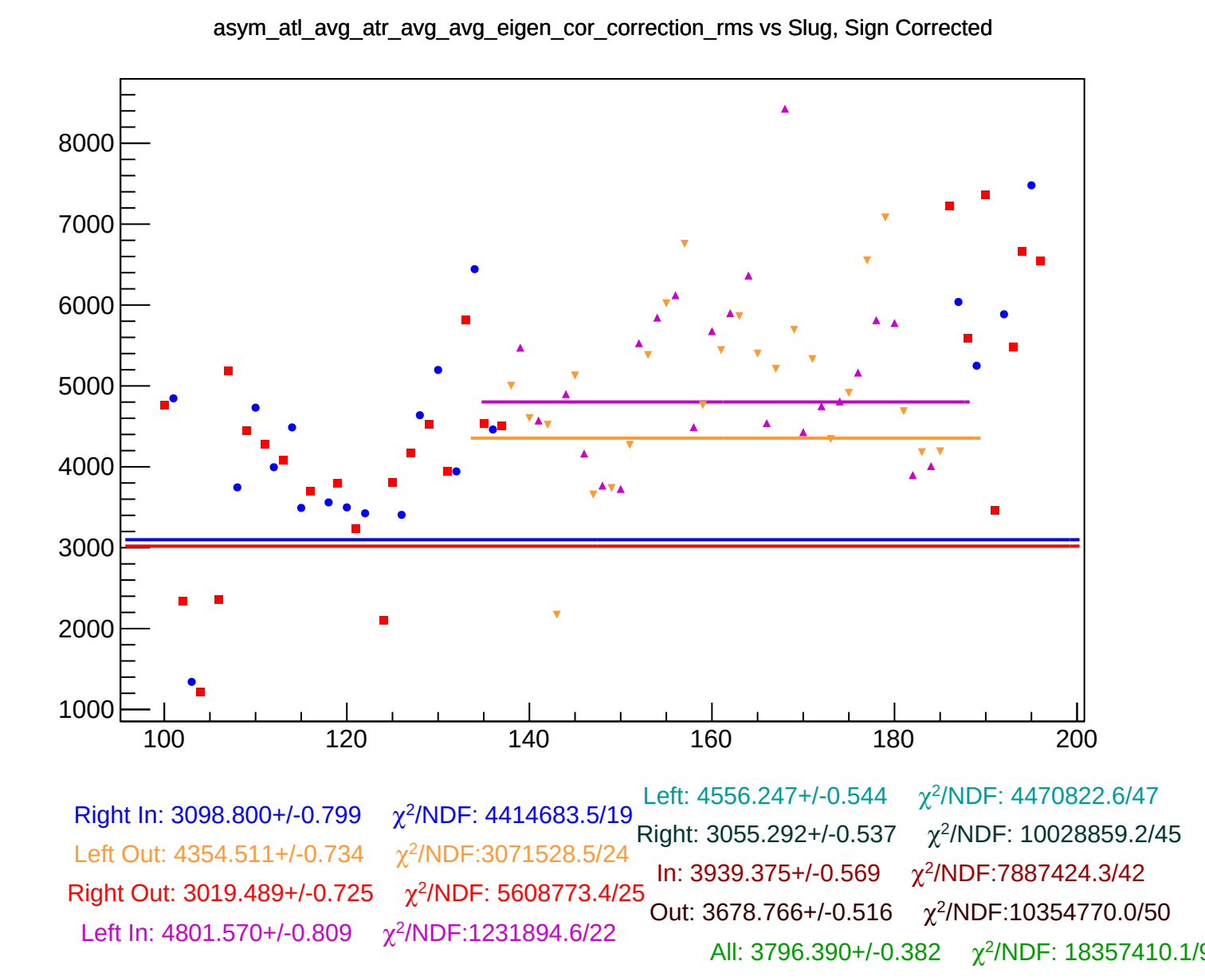
Left: -288.990+/-768.952 $\chi^2$/NDF: 43.5/47

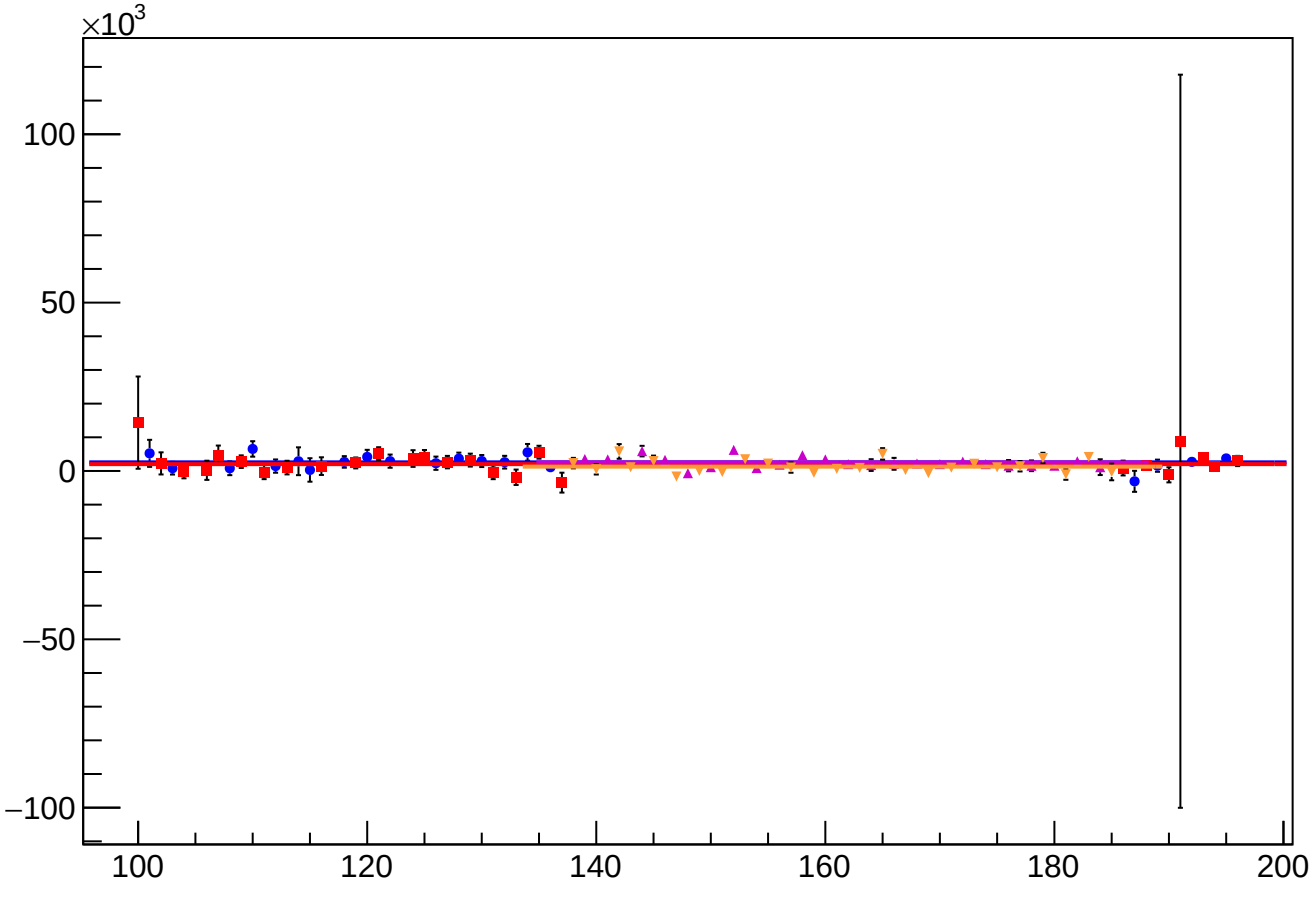
Right: -789.877+/-759.400 $\chi^2$/NDF: 46.0/45

In: -374.361+/-804.266 $\chi^2$/NDF:33.1/42

Out: -680.932+/-729.461 $\chi^2$/NDF:56.6/50

All: -542.564+/-540.322 $\chi^2$/NDF: 89.7/93


asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
8000
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 3098.800+/-0.799 χ²/NDF: 4414683.5/19
Left Out: 4354.511+/-0.734 χ²/NDF:3071528.5/24
Right Out: 3019.489+/-0.725 χ²/NDF: 5608773.4/25
Left In: 4801.570+/-0.809 χ²/NDF:1231894.6/22
Left: 4556.247+/-0.544 χ²/NDF: 4470822.6/47
Right: 3055.292+/-0.537 χ²/NDF: 10028859.2/45
In: 3939.375+/-0.569 χ²/NDF:7887424.3/42
Out: 3678.766+/-0.516 χ²/NDF:10354770.0/50
All: 3796.390+/-0.382 χ²/NDF: 18357410.1/9




Right In: 2557.843+/-436.203 $\chi^2$/NDF: 13.6/19

Left Out: 1284.422+/-300.530 $\chi^2$/NDF:33.4/24

Right Out: 2028.337+/-400.342 $\chi^2$/NDF: 25.9/25

Left In: 2531.791+/-312.886 $\chi^2$/NDF:25.0/22

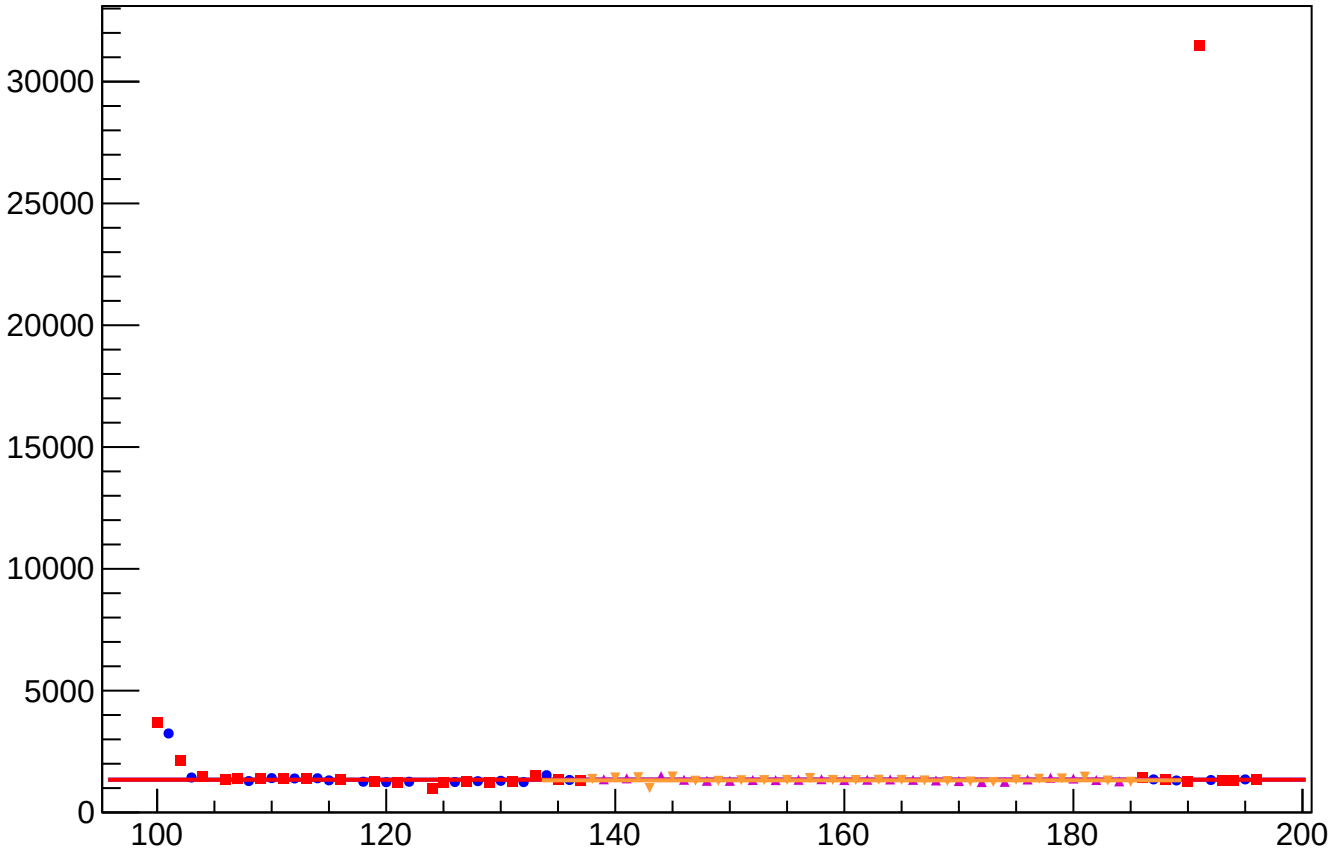
Left: 1882.989+/-216.743 $\chi^2$/NDF: 66.7/47

Right: 2270.432+/-294.949 $\chi^2$/NDF: 40.2/45

In: 2540.641+/-254.244 $\chi^2$/NDF:38.6/42

Out: 1552.543+/-240.345 $\chi^2$/NDF:61.5/50

All: 2018.847+/-174.656 $\chi^2$/NDF: 108.0/93




Right In: 1346.890+/-0.308 $\chi^2$/NDF: 495186.4/19

Left Out: 1318.174+/-0.213 $\chi^2$/NDF:248547.7/24

Right Out: 1343.387+/-0.283 $\chi^2$/NDF: 433966.4/25

Left In: 1338.602+/-0.221 $\chi^2$/NDF:54248.5/22

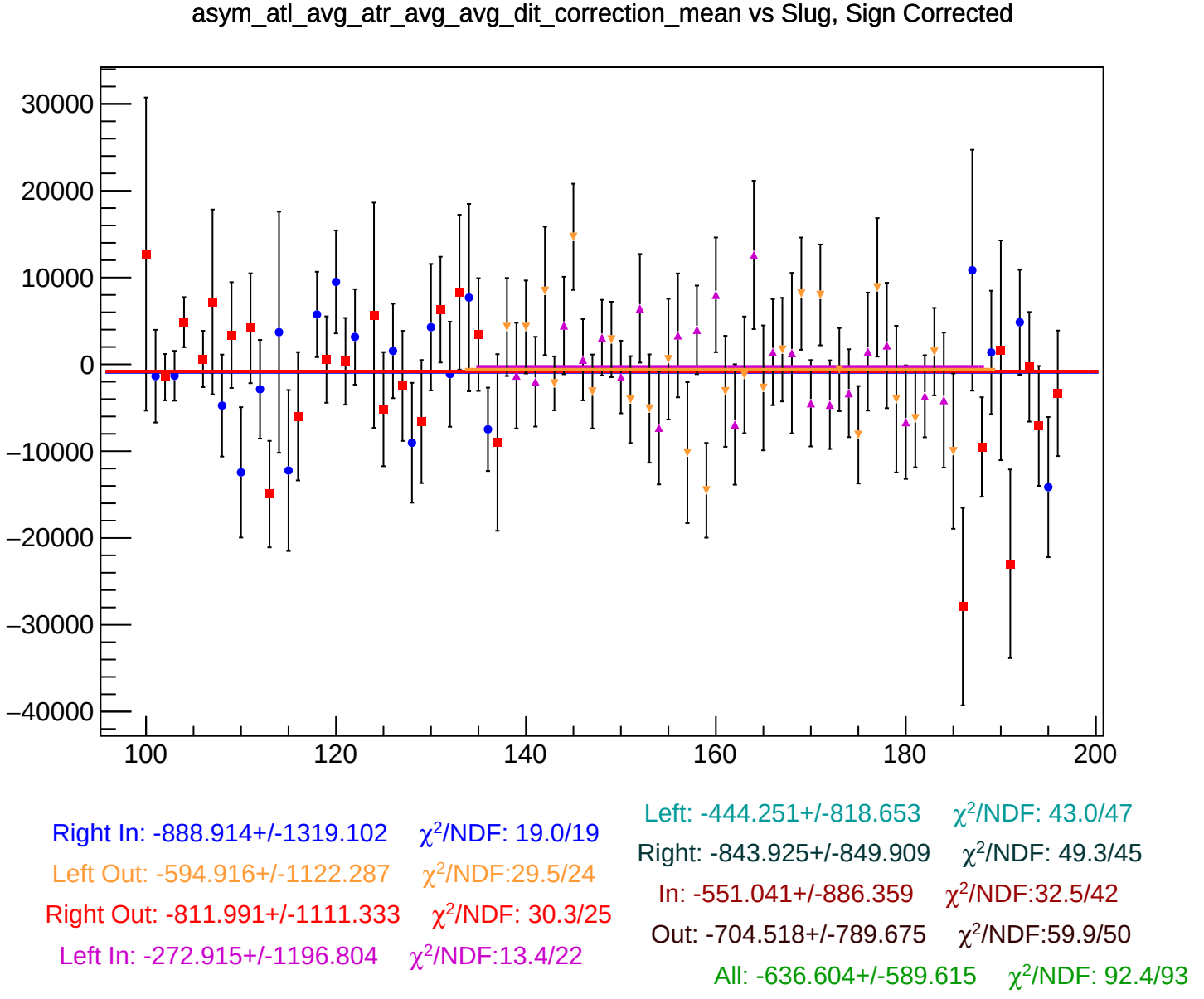
Left: 1327.977+/-0.153 $\chi^2$/NDF: 307230.5/47

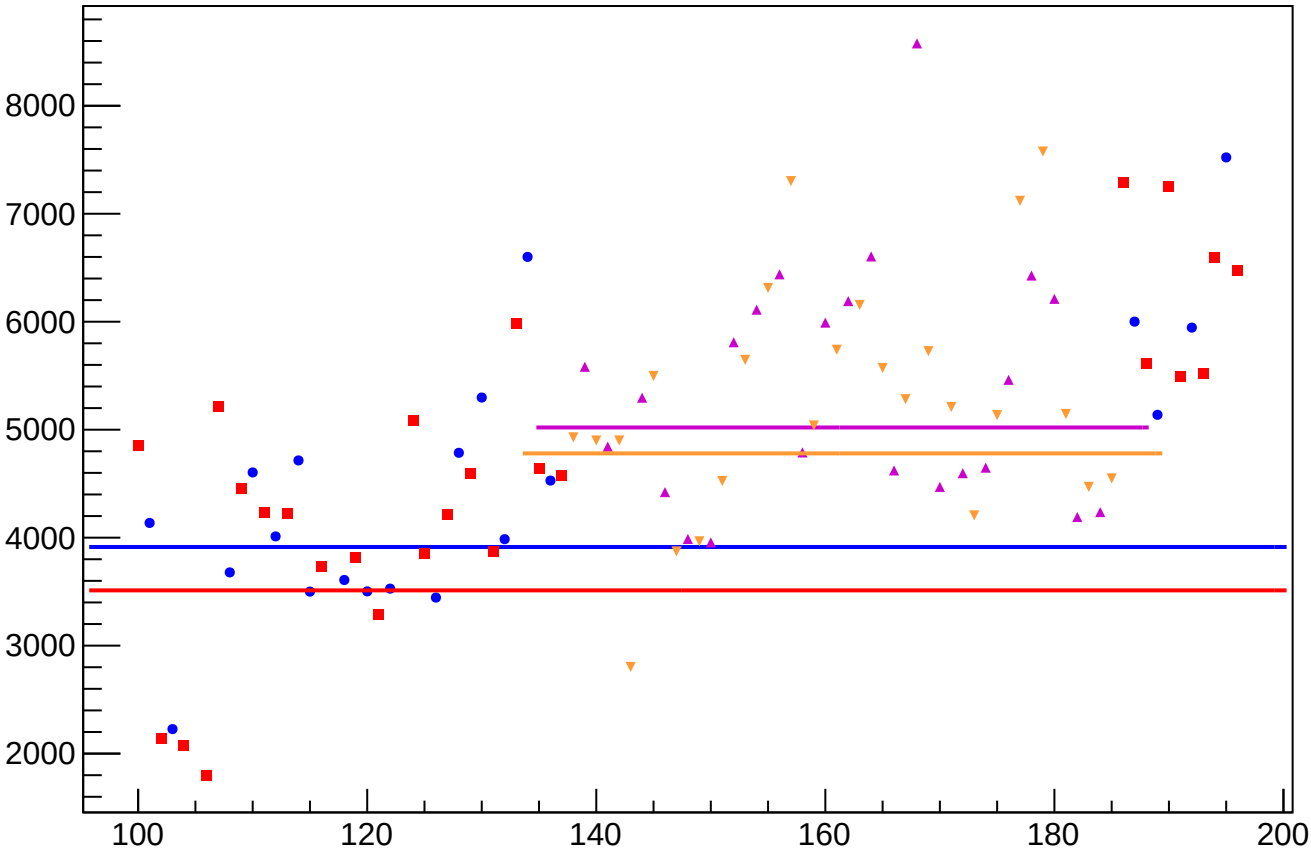
Right: 1344.988+/-0.209 $\chi^2$/NDF: 929222.8/45

In: 1341.418+/-0.180 $\chi^2$/NDF:549911.6/42

Out: 1327.266+/-0.170 $\chi^2$/NDF:687590.1/50

All: 1333.944+/-0.123 $\chi^2$/NDF: 1240774.4/93


asym_atl_avg_atr_avg_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -888.914+/-1319.102 χ²/NDF: 19.0/19
Left Out: -594.916+/-1122.287 χ²/NDF:29.5/24
Right Out: -811.991+/-1111.333 χ²/NDF: 30.3/25
Left In: -272.915+/-1196.804 χ²/NDF:13.4/22
Left: -444.251+/-818.653 χ²/NDF: 43.0/47
Right: -843.925+/-849.909 χ²/NDF: 49.3/45
In: -551.041+/-886.359 χ²/NDF:32.5/42
Out: -704.518+/-789.675 χ²/NDF:59.9/50
All: -636.604+/-589.615 χ²/NDF: 92.4/93




Right In: 3913.675+/-0.933 $\chi^2$/NDF: 1759288.1/19

Left Out: 4780.396+/-0.794 $\chi^2$/NDF:2006245.3/24

Right Out: 3511.789+/-0.786 $\chi^2$/NDF: 3776962.3/25

Left In: 5020.560+/-0.846 $\chi^2$/NDF:1225091.9/22

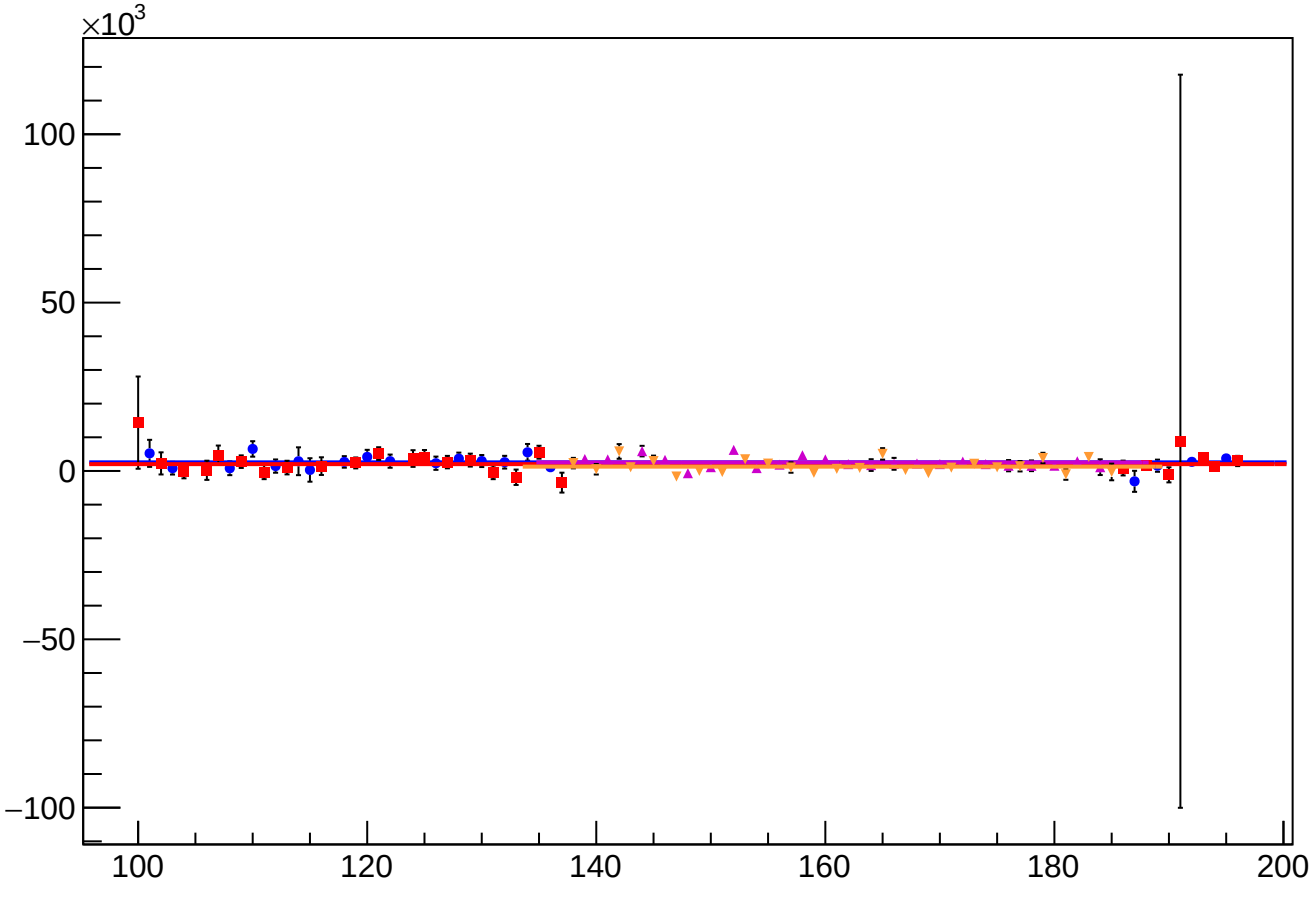
Left: 4892.769+/-0.579 $\chi^2$/NDF: 3274191.3/47

Right: 3678.625+/-0.601 $\chi^2$/NDF: 5644826.4/45

In: 4520.796+/-0.627 $\chi^2$/NDF:3756795.6/42

Out: 4139.871+/-0.558 $\chi^2$/NDF:7073491.2/50

All: 4308.432+/-0.417 $\chi^2$/NDF: 11036221.8/9




Right In: 2557.841+/-436.203 $\chi^2$/NDF: 13.6/19

Left Out: 1284.416+/-300.530 $\chi^2$/NDF:33.4/24

Right Out: 2028.337+/-400.342 $\chi^2$/NDF: 25.9/25

Left In: 2531.791+/-312.887 $\chi^2$/NDF:25.0/22

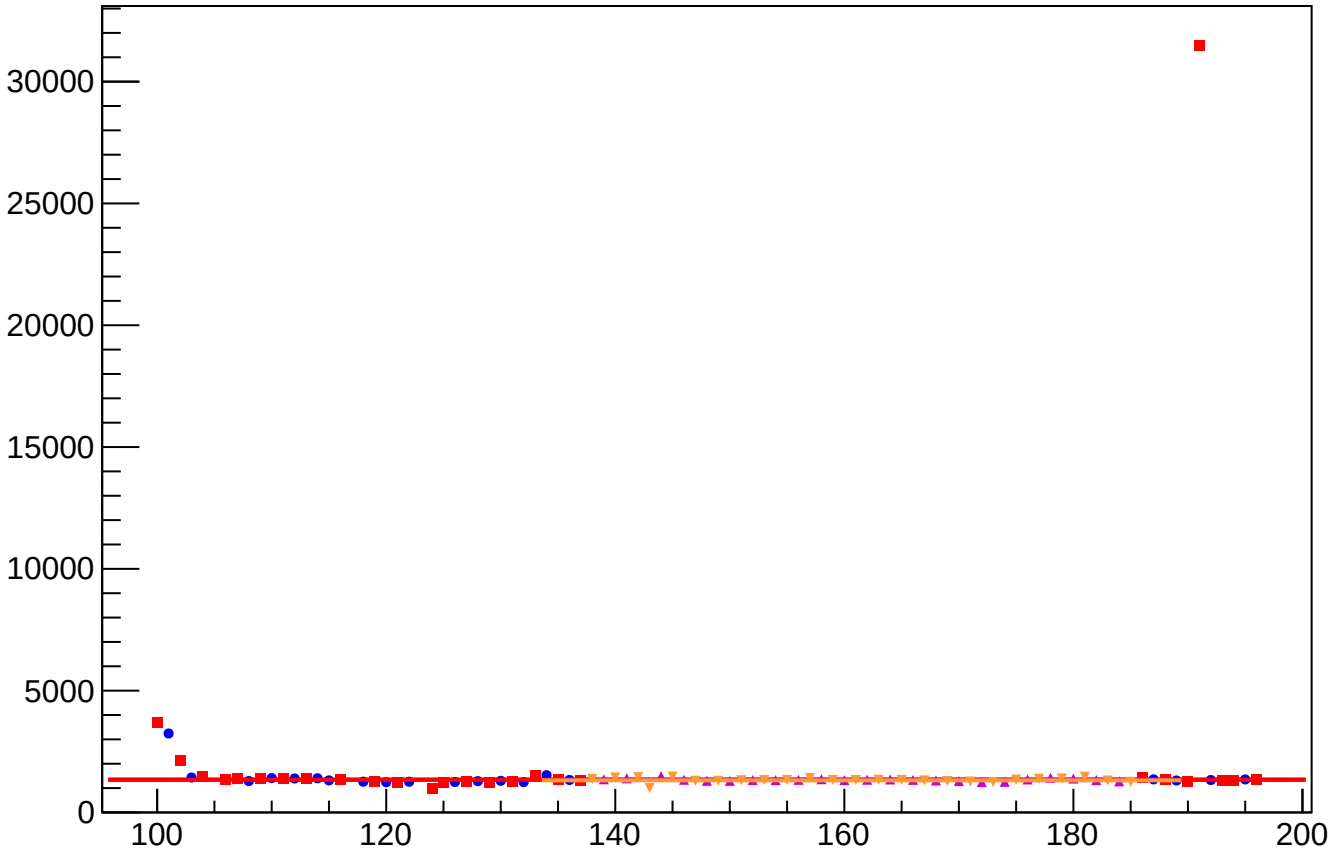
Left: 1882.986+/-216.744 $\chi^2$/NDF: 66.7/47

Right: 2270.432+/-294.949 $\chi^2$/NDF: 40.2/45

In: 2540.641+/-254.244 $\chi^2$/NDF:38.6/42

Out: 1552.540+/-240.345 $\chi^2$/NDF:61.5/50

All: 2018.845+/-174.657 $\chi^2$/NDF: 108.0/93




Right In: 1346.890+/-0.308 $\chi^2$/NDF: 495186.6/19

Left Out: 1318.176+/-0.213 $\chi^2$/NDF:248550.2/24

Right Out: 1343.387+/-0.283 $\chi^2$/NDF: 433965.3/25

Left In: 1338.604+/-0.221 $\chi^2$/NDF:54251.0/22

Left: 1327.978+/-0.153 $\chi^2$/NDF: 307235.6/47

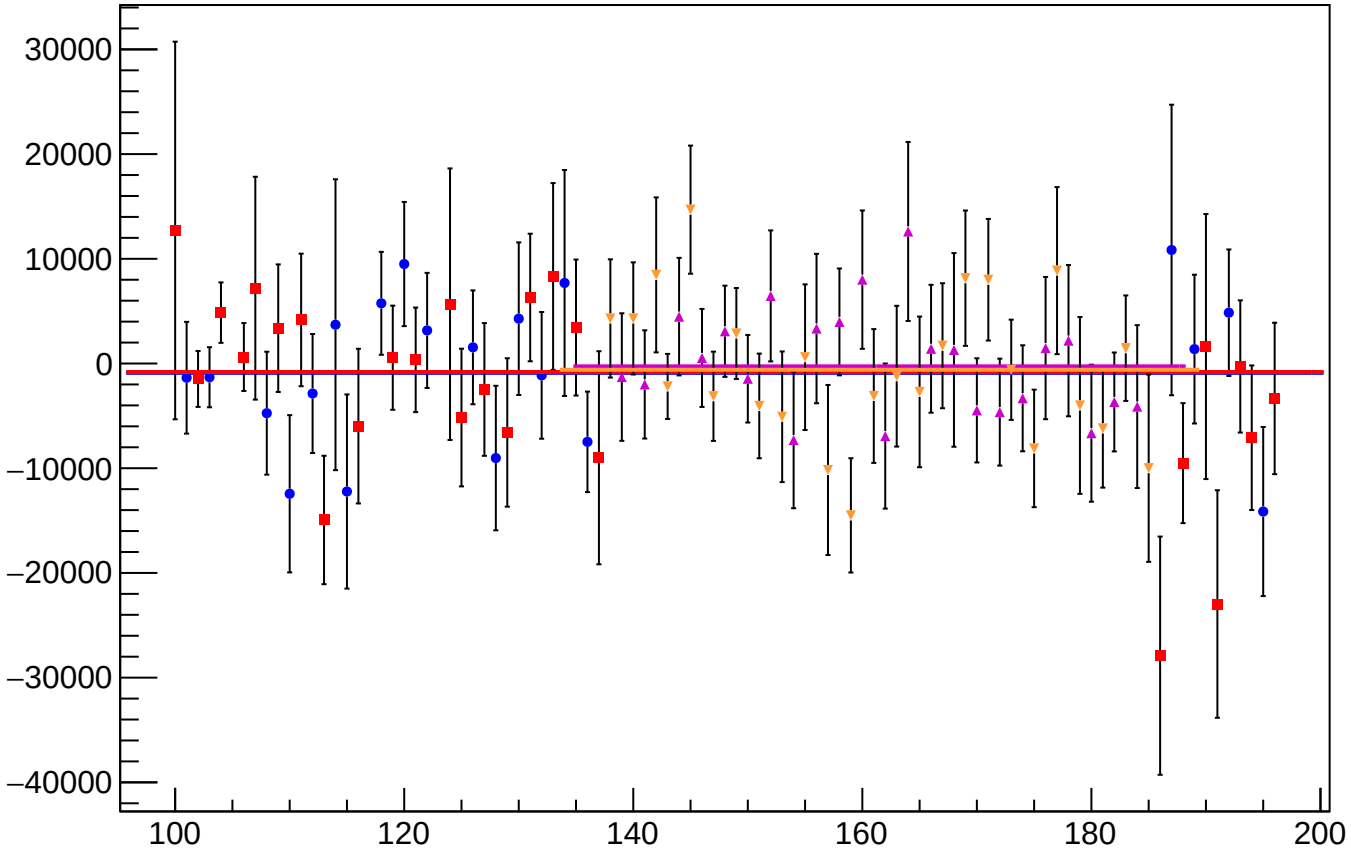
Right: 1344.988+/-0.209 $\chi^2$/NDF: 929221.8/45

In: 1341.419+/-0.180 $\chi^2$/NDF:549914.1/42

Out: 1327.267+/-0.170 $\chi^2$/NDF:687590.9/50

All: 1333.944+/-0.123 $\chi^2$/NDF: 1240777.7/93

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -888.906+/-1319.100 $\chi^2$/NDF: 19.0/19

Left Out: -594.920+/-1122.288 $\chi^2$/NDF:29.5/24

Right Out: -811.984+/-1111.330 $\chi^2$/NDF: 30.3/25

Left In: -272.917+/-1196.806 $\chi^2$/NDF:13.4/22

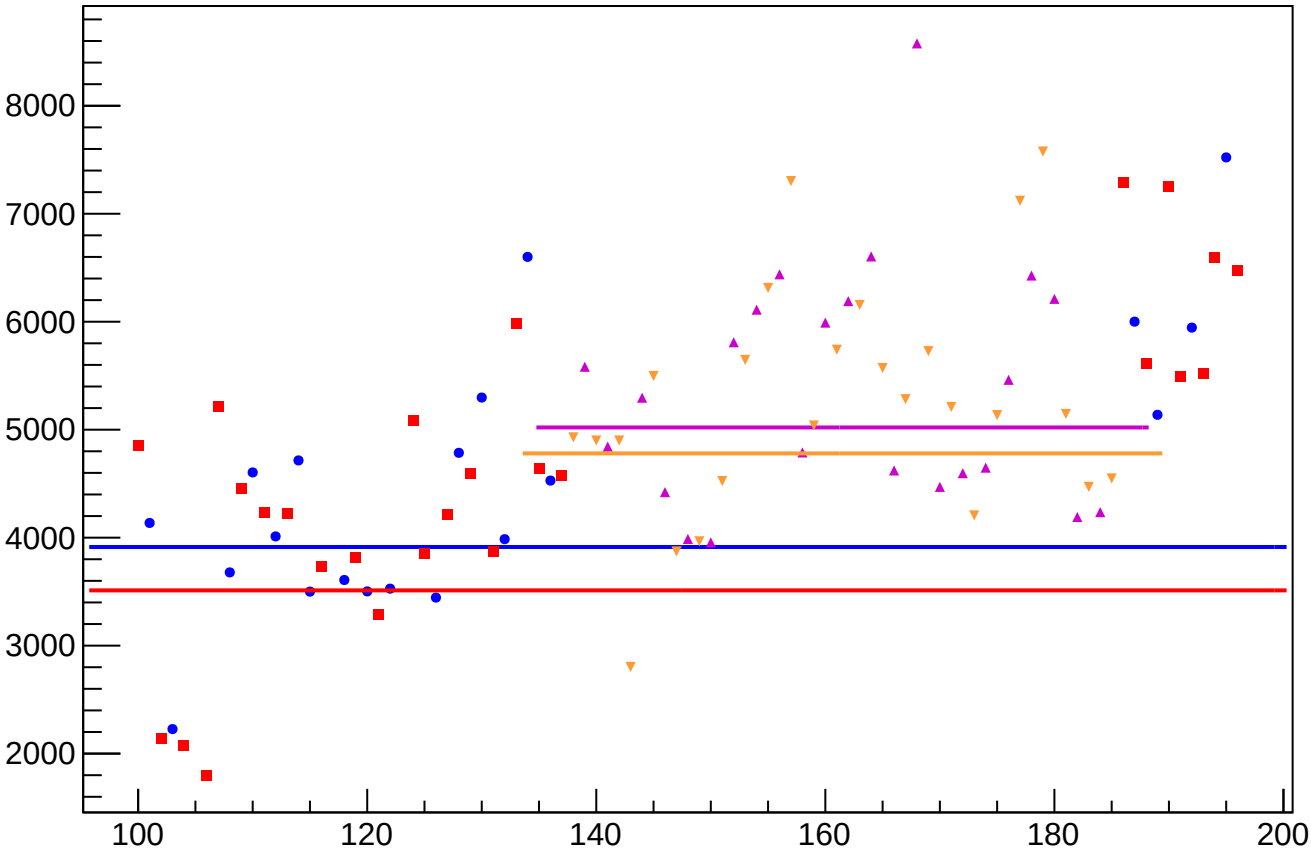
Left: -444.254+/-818.655 $\chi^2$/NDF: 43.0/47

Right: -843.917+/-849.907 $\chi^2$/NDF: 49.3/45

In: -551.040+/-886.359 $\chi^2$/NDF:32.5/42

Out: -704.517+/-789.675 $\chi^2$/NDF:59.9/50

All: -636.603+/-589.615 $\chi^2$/NDF: 92.4/93




Right In: 3913.666+/-0.933 $\chi^2$/NDF: 1759300.3/19

Left Out: 4780.404+/-0.794 $\chi^2$/NDF:2006246.8/24

Right Out: 3511.780+/-0.786 $\chi^2$/NDF: 3776980.1/25

Left In: 5020.567+/-0.846 $\chi^2$/NDF:1225095.5/22

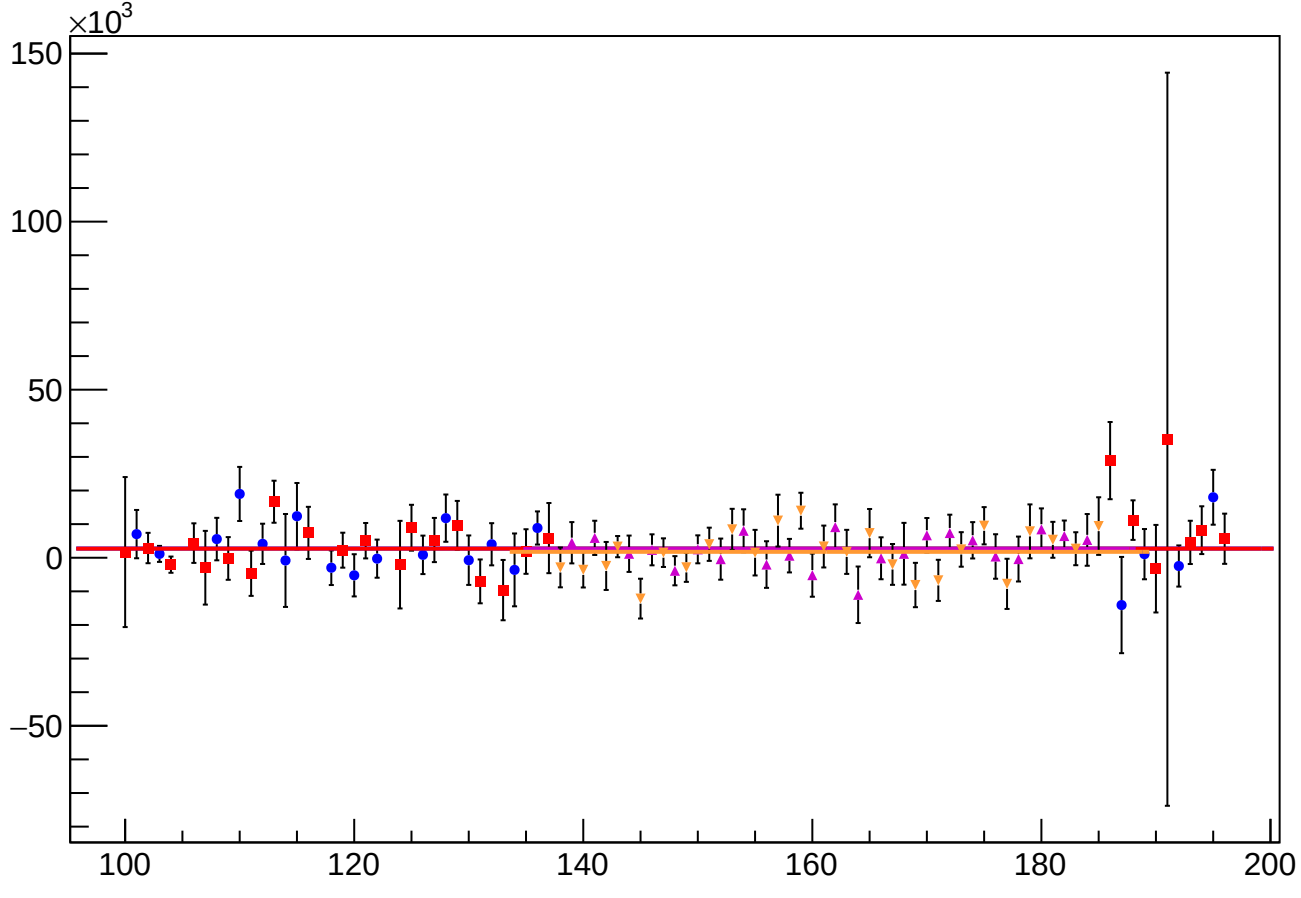
Left: 4892.776+/-0.579 $\chi^2$/NDF: 3274196.2/47

Right: 3678.616+/-0.601 $\chi^2$/NDF: 5644857.0/45

In: 4520.794+/-0.627 $\chi^2$/NDF:3756834.8/42

Out: 4139.868+/-0.558 $\chi^2$/NDF:7073545.3/50

All: 4308.430+/-0.417 $\chi^2$/NDF: 11036316.5/9




Right In: 2739.275+/-1310.304 $\chi^2$/NDF: 18.8/19

Left Out: 1761.683+/-1116.232 $\chi^2$/NDF:27.7/24

Right Out: 2707.135+/-1227.447 $\chi^2$/NDF: 25.9/25

Left In: 2579.960+/-1188.448 $\chi^2$/NDF:13.3/22

Left: 2145.206+/-813.628 $\chi^2$/NDF: 41.2/47

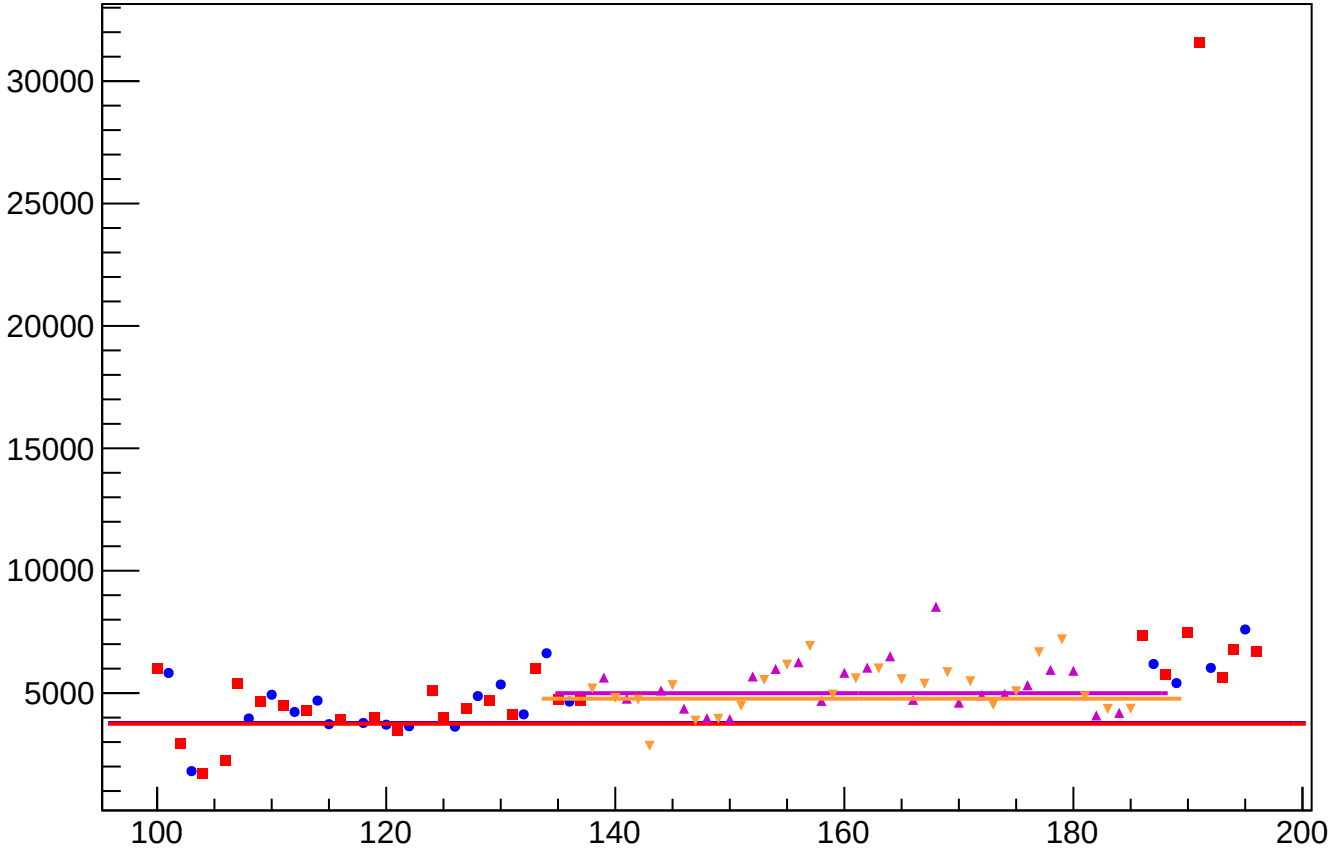
Right: 2722.156+/-895.796 $\chi^2$/NDF: 44.7/45

In: 2651.866+/-880.295 $\chi^2$/NDF:32.1/42

Out: 2189.645+/-825.820 $\chi^2$/NDF:53.9/50

All: 2406.012+/-602.281 $\chi^2$/NDF: 86.1/93

# asym_atl_avg_atr_avg_avg_rms vs Slug, Sign Corrected




Right In: 3779.434+/-0.927 $\chi^2$/NDF: 2800490.3/19

Left Out: 4771.181+/-0.789 $\chi^2$/NDF:1787082.6/24

Right Out: 3747.978+/-0.858 $\chi^2$/NDF: 3701317.4/25

Left In: 4996.720+/-0.840 $\chi^2$/NDF:1095876.8/22

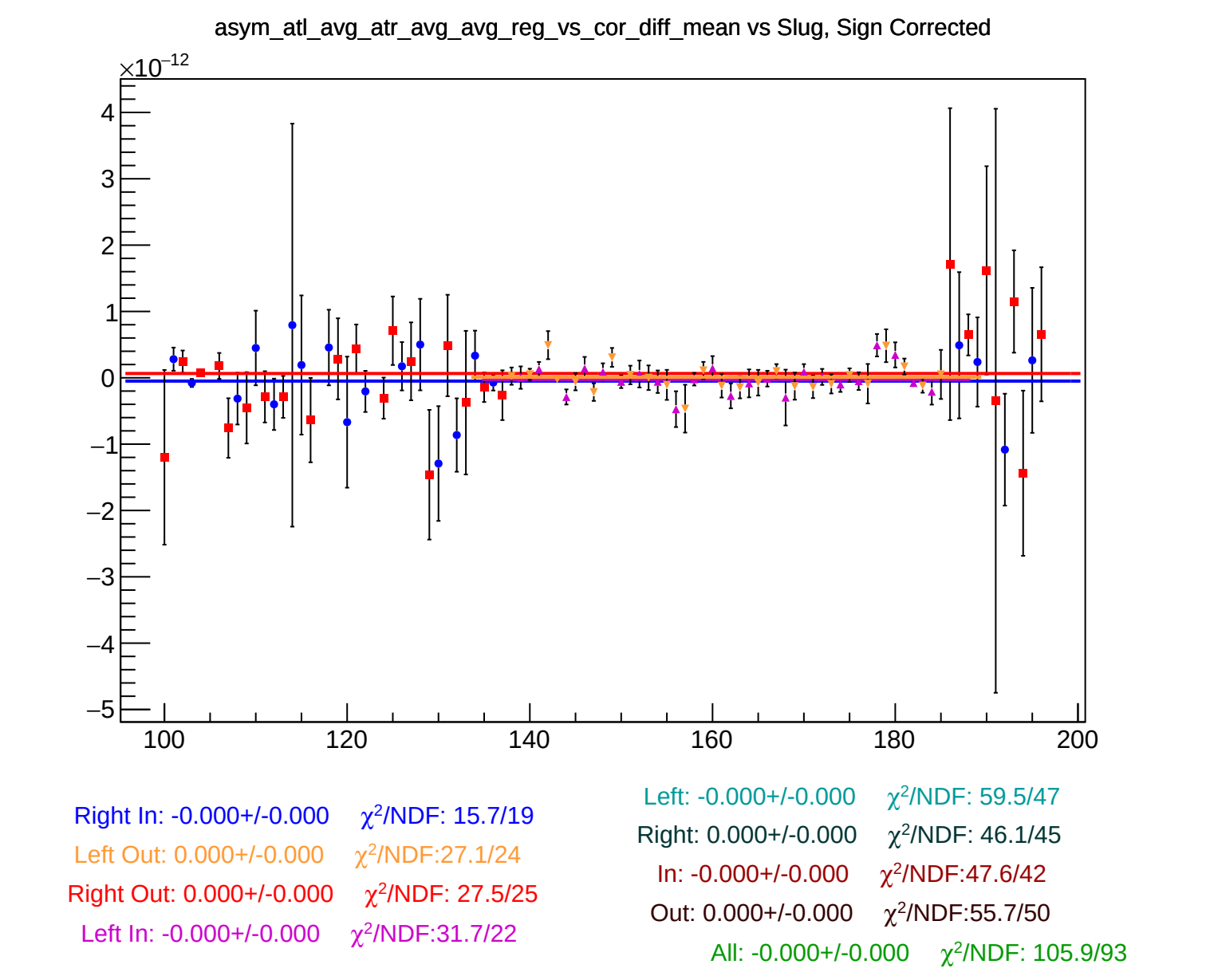
Left: 4876.890+/-0.575 $\chi^2$/NDF: 2921229.4/47

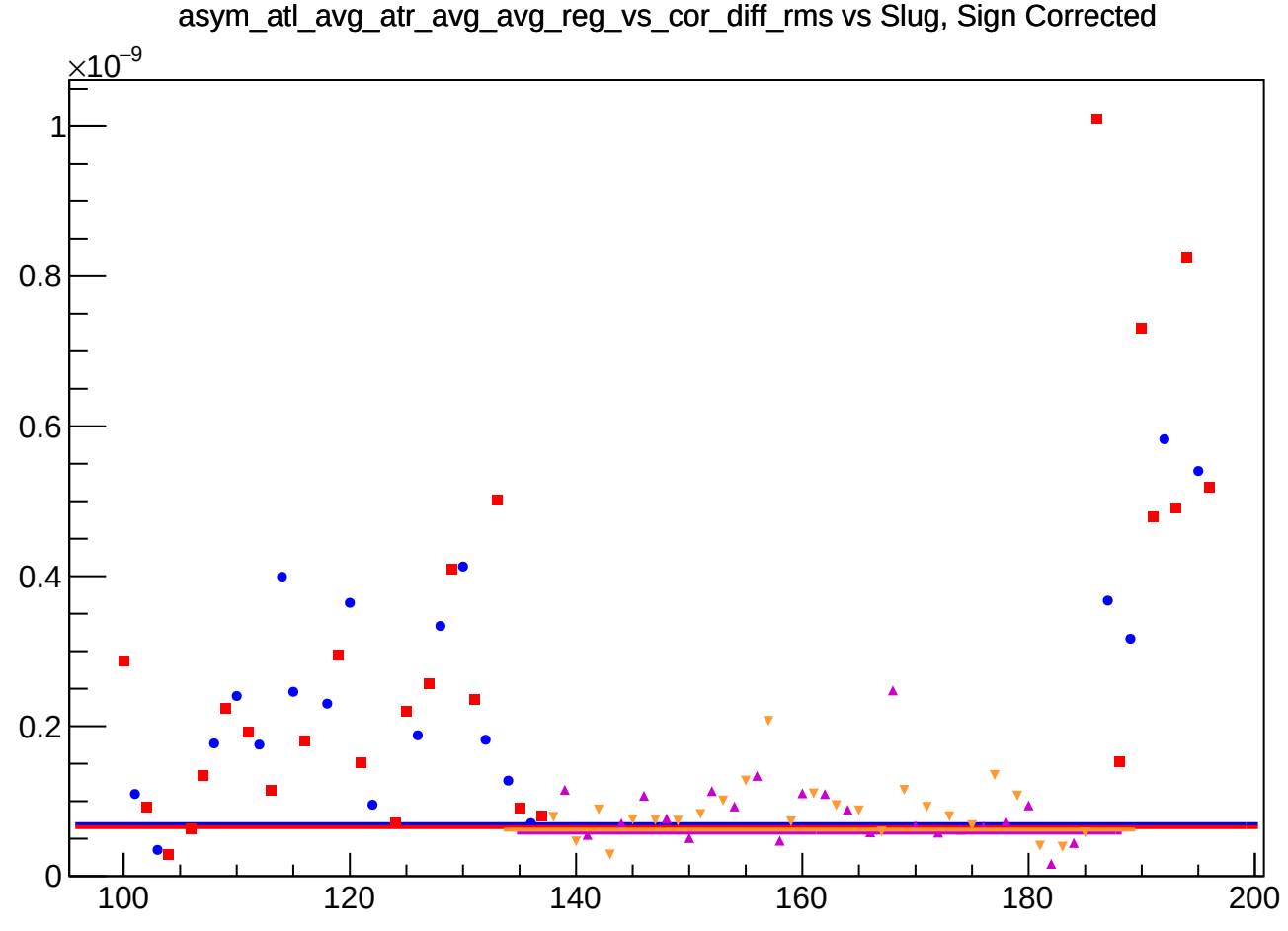
Right: 3762.498+/-0.629 $\chi^2$/NDF: 6502428.3/45

In: 4447.295+/-0.622 $\chi^2$/NDF:4843413.1/42

Out: 4302.125+/-0.581 $\chi^2$/NDF:6258784.1/50

All: 4369.697+/-0.425 $\chi^2$/NDF: 11131271.1/9


asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
3
2
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 15.7/19
Left Out: 0.000+/-0.000 χ²/NDF:27.1/24
Right Out: 0.000+/-0.000 χ²/NDF: 27.5/25
Left In: -0.000+/-0.000 χ²/NDF:31.7/22
Left: -0.000+/-0.000 χ²/NDF: 59.5/47
Right: 0.000+/-0.000 χ²/NDF: 46.1/45
In: -0.000+/-0.000 χ²/NDF:47.6/42
Out: 0.000+/-0.000 χ²/NDF:55.7/50
All: -0.000+/-0.000 χ²/NDF: 105.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4139377.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2443383.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5512323.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2966562.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5432557.1/47

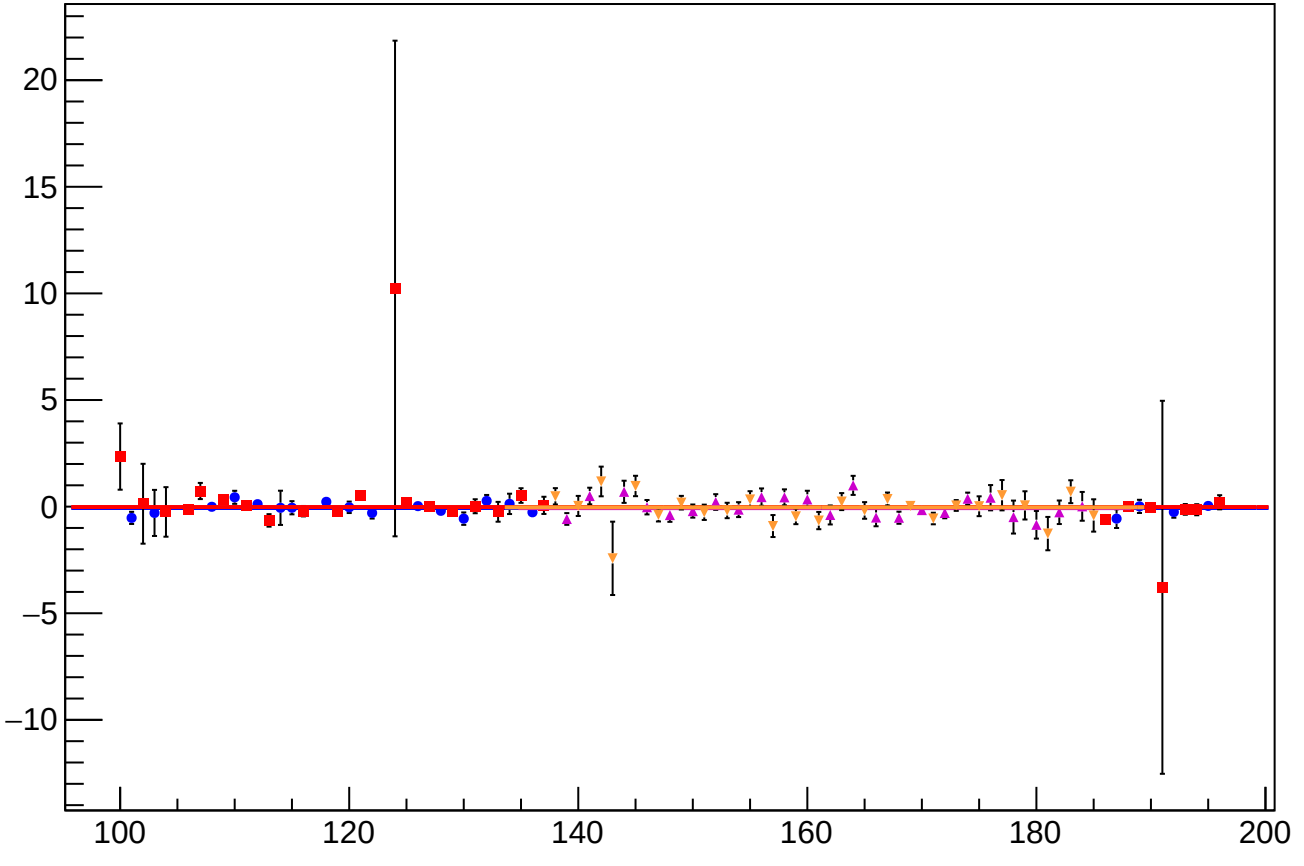
Right: 0.000+/-0.000 $\chi^2$/NDF: 9658669.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:7190308.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7963710.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 15162784.7/93

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.063+/-0.061 $\chi^2$/NDF: 16.9/19

Left Out: -0.035+/-0.077 $\chi^2$/NDF:32.5/24

Right Out: -0.018+/-0.049 $\chi^2$/NDF: 36.2/25

Left In: -0.069+/-0.075 $\chi^2$/NDF:29.9/22

Left: -0.052+/-0.054 $\chi^2$/NDF: 62.6/47

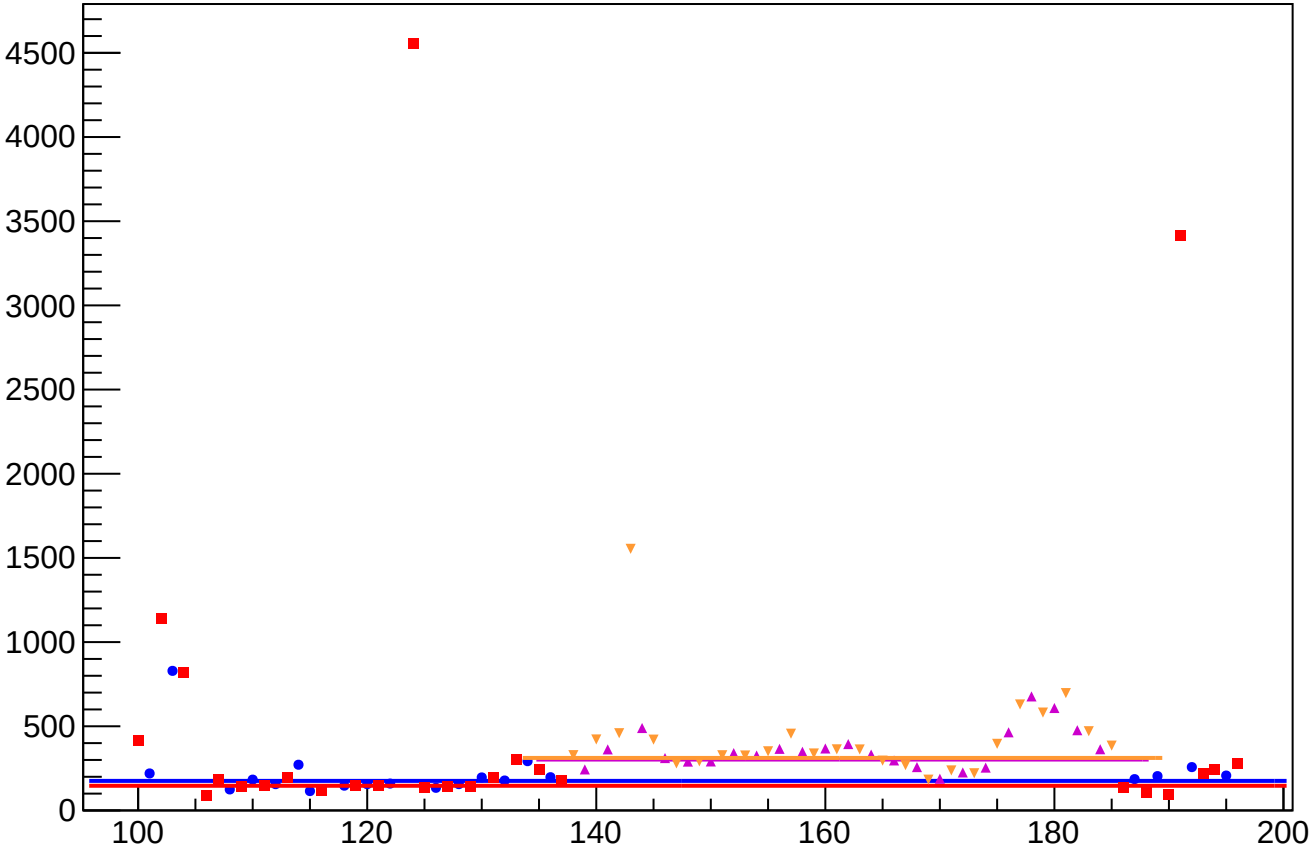
Right: -0.036+/-0.038 $\chi^2$/NDF: 53.5/45

In: -0.065+/-0.047 $\chi^2$/NDF:46.8/42

Out: -0.023+/-0.041 $\chi^2$/NDF:68.8/50

All: -0.042+/-0.031 $\chi^2$/NDF: 116.1/93

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 175.630+/-0.043 $\chi^2$/NDF: 1563740.0/19

Left Out: 311.961+/-0.054 $\chi^2$/NDF:4350162.2/24

Right Out: 146.663+/-0.035 $\chi^2$/NDF: 3846783.4/25

Left In: 302.375+/-0.053 $\chi^2$/NDF:2808730.8/22

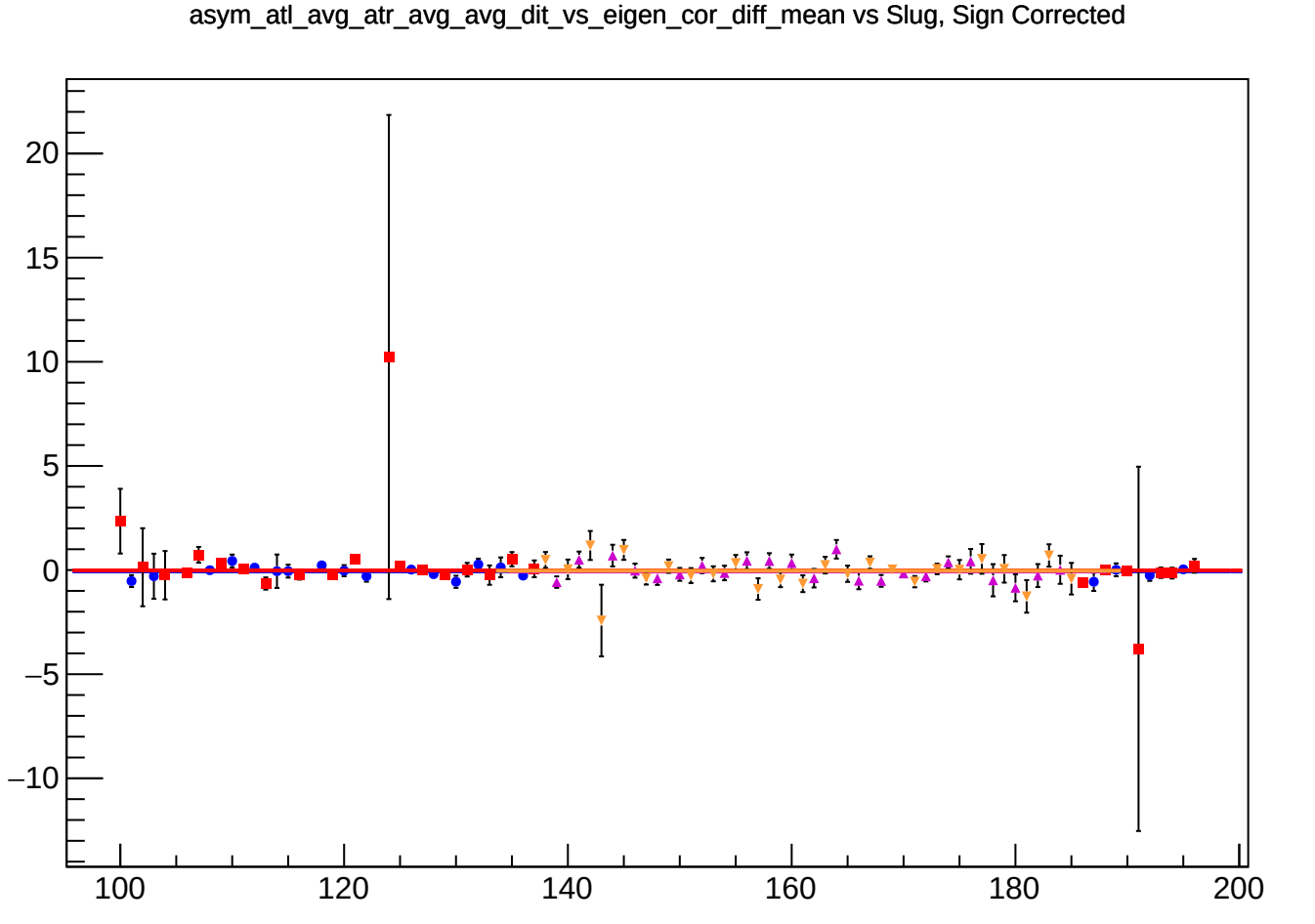
Left: 307.056+/-0.038 $\chi^2$/NDF: 7174887.7/47

Right: 158.194+/-0.027 $\chi^2$/NDF: 5686061.0/45

In: 225.725+/-0.033 $\chi^2$/NDF:7836357.5/42

Out: 194.928+/-0.029 $\chi^2$/NDF:14778194.1/50

All: 208.368+/-0.022 $\chi^2$/NDF: 23096765.2/93




Right In: -0.063+/-0.061 $\chi^2$/NDF: 16.9/19

Left Out: -0.035+/-0.077 $\chi^2$/NDF:32.5/24

Right Out: -0.018+/-0.049 $\chi^2$/NDF: 36.2/25

Left In: -0.069+/-0.075 $\chi^2$/NDF:29.9/22

Left: -0.052+/-0.054 $\chi^2$/NDF: 62.6/47

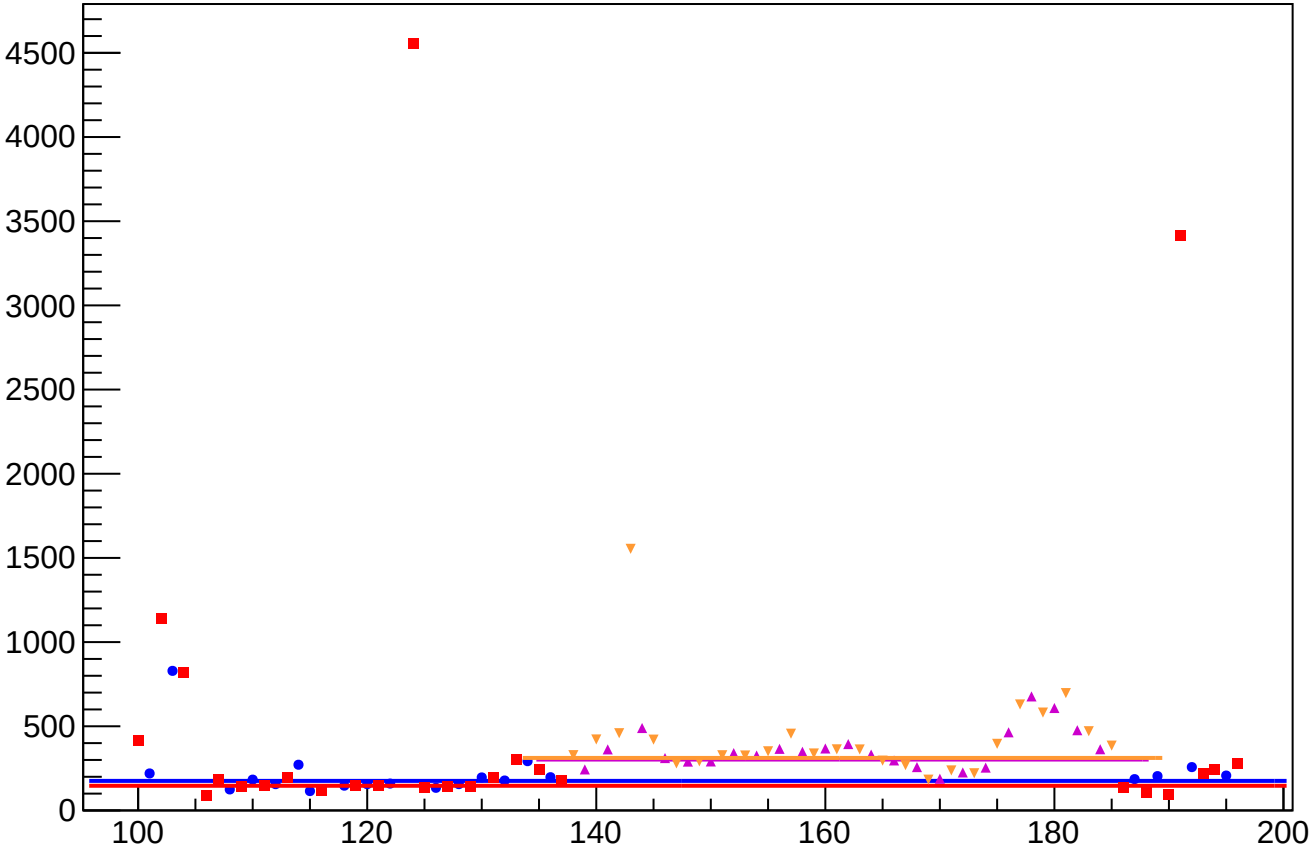
Right: -0.036+/-0.038 $\chi^2$/NDF: 53.5/45

In: -0.065+/-0.047 $\chi^2$/NDF:46.8/42

Out: -0.023+/-0.041 $\chi^2$/NDF:68.8/50

All: -0.042+/-0.031 $\chi^2$/NDF: 116.1/93

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 175.630+/-0.043 $\chi^2$/NDF: 1563740.0/19

Left Out: 311.961+/-0.054 $\chi^2$/NDF:4350162.2/24

Right Out: 146.663+/-0.035 $\chi^2$/NDF: 3846783.4/25

Left In: 302.375+/-0.053 $\chi^2$/NDF:2808730.8/22

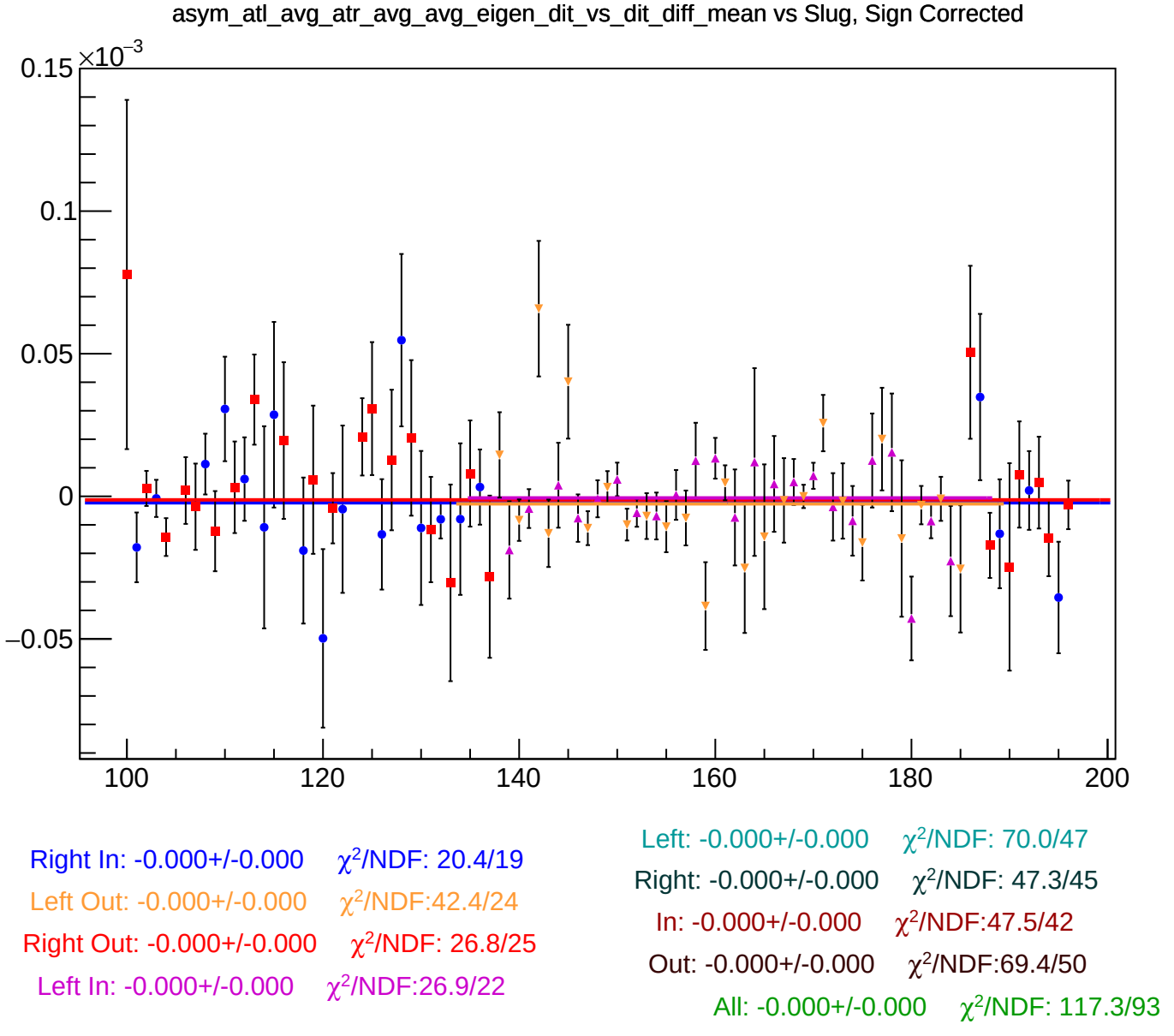
Left: 307.056+/-0.038 $\chi^2$/NDF: 7174887.7/47

Right: 158.194+/-0.027 $\chi^2$/NDF: 5686061.0/45

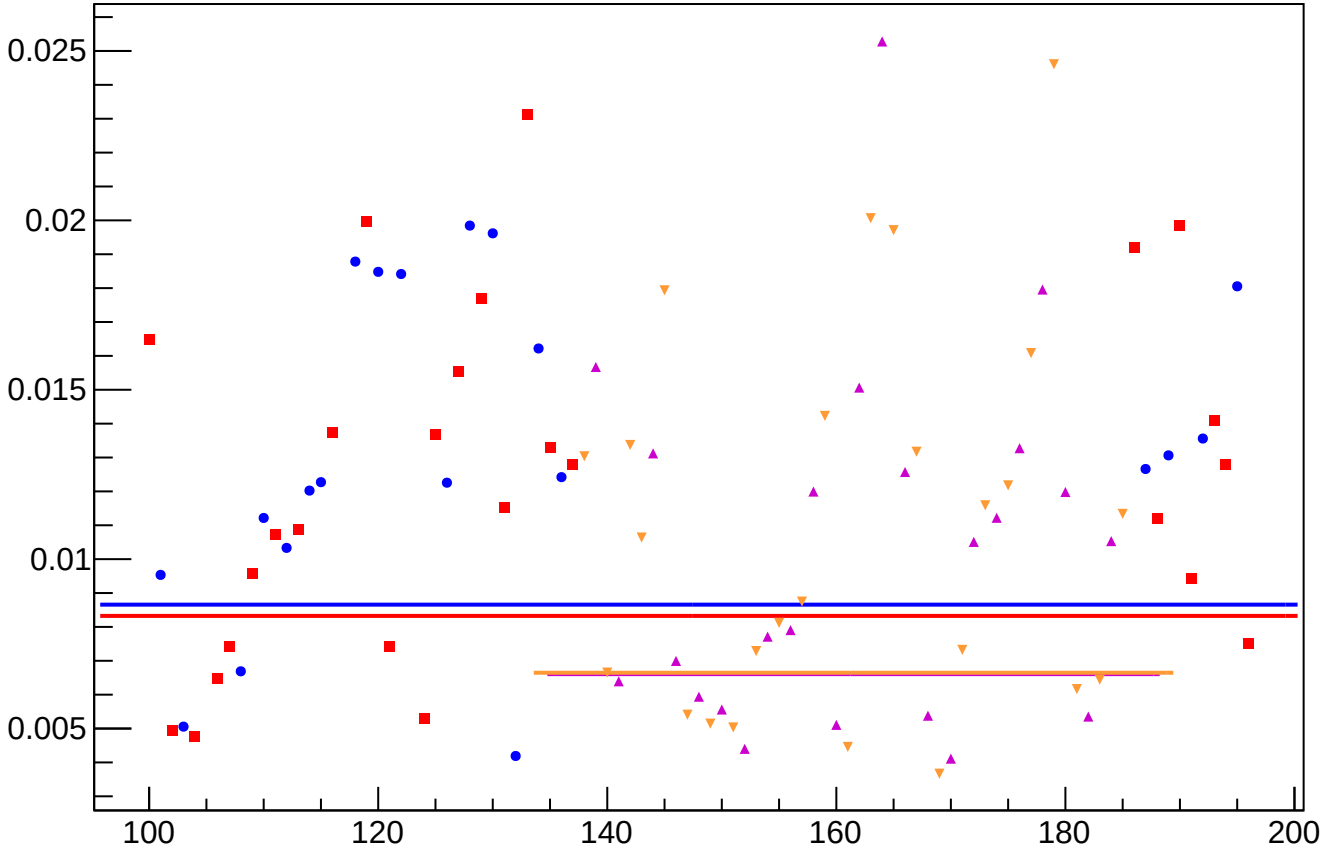
In: 225.725+/-0.033 $\chi^2$/NDF:7836357.5/42

Out: 194.928+/-0.029 $\chi^2$/NDF:14778194.1/50

All: 208.368+/-0.022 $\chi^2$/NDF: 23096765.2/93


asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.15
0.1
0.05
0
−0.05
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 20.4/19
Left Out: -0.000+/-0.000 χ²/NDF:42.4/24
Right Out: -0.000+/-0.000 χ²/NDF: 26.8/25
Left In: -0.000+/-0.000 χ²/NDF:26.9/22
Left: -0.000+/-0.000 χ²/NDF: 70.0/47
Right: -0.000+/-0.000 χ²/NDF: 47.3/45
In: -0.000+/-0.000 χ²/NDF:47.5/42
Out: -0.000+/-0.000 χ²/NDF:69.4/50
All: -0.000+/-0.000 χ²/NDF: 117.3/93

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 4264338.7/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:7513935.6/24

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 4197663.9/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:5855747.2/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 13370244.6/47

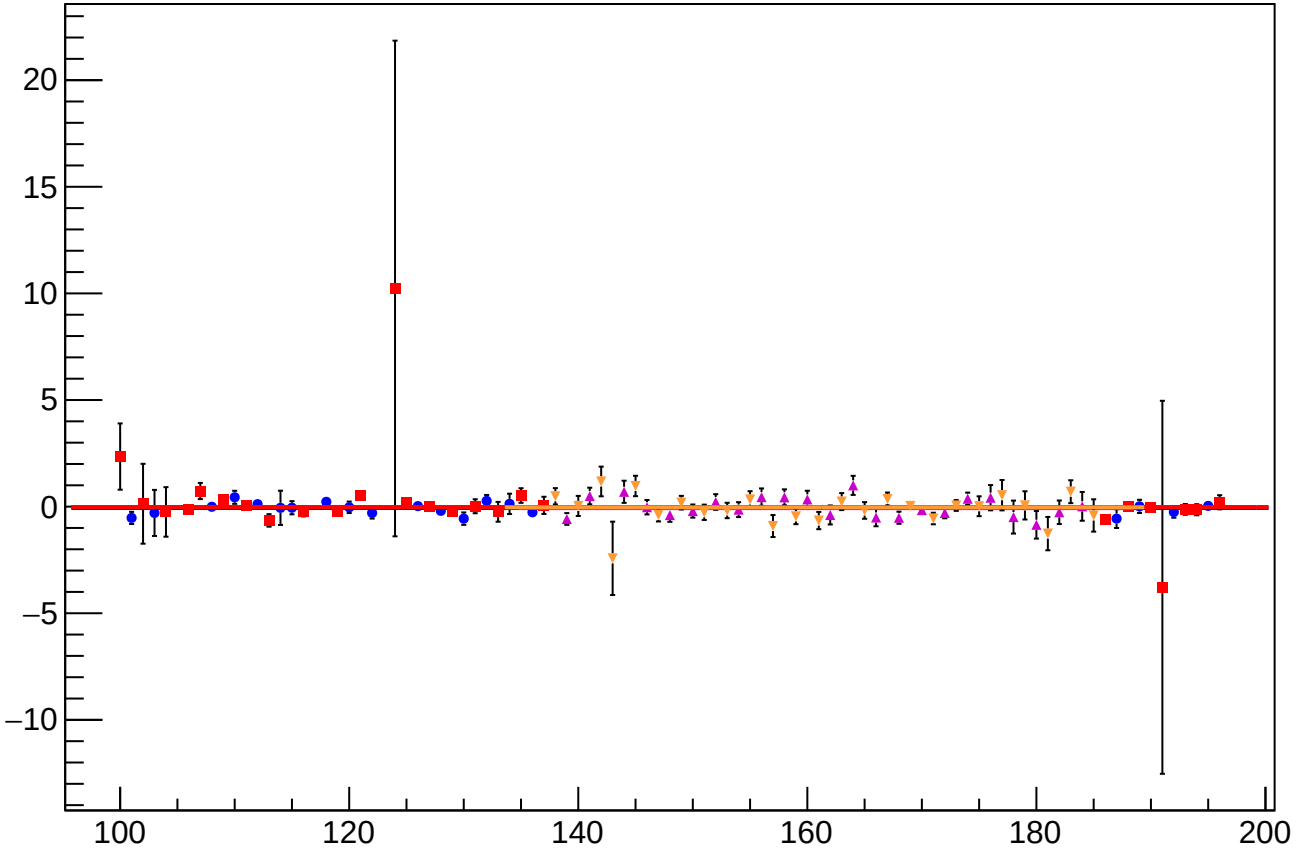
Right: 0.008+/-0.000 $\chi^2$/NDF: 8474651.2/45

In: 0.007+/-0.000 $\chi^2$/NDF:10751496.8/42

Out: 0.007+/-0.000 $\chi^2$/NDF:12258031.3/50

All: 0.007+/-0.000 $\chi^2$/NDF: 23010536.1/93

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.063+/-0.061 $\chi^2$/NDF: 16.9/19

Left Out: -0.035+/-0.077 $\chi^2$/NDF:32.5/24

Right Out: -0.018+/-0.049 $\chi^2$/NDF: 36.2/25

Left In: -0.069+/-0.075 $\chi^2$/NDF:29.9/22

Left: -0.052+/-0.054 $\chi^2$/NDF: 62.6/47

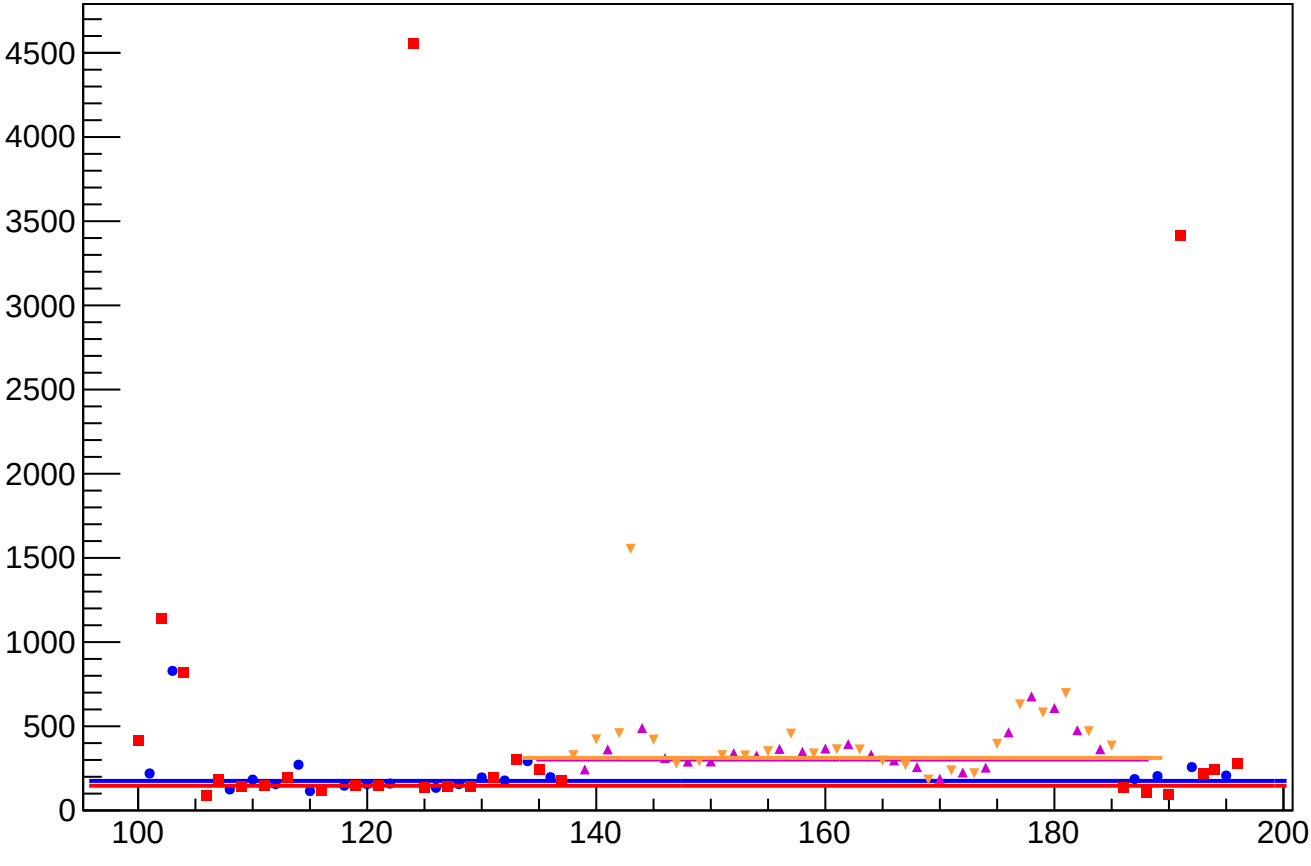
Right: -0.036+/-0.038 $\chi^2$/NDF: 53.5/45

In: -0.065+/-0.047 $\chi^2$/NDF:46.8/42

Out: -0.023+/-0.041 $\chi^2$/NDF:68.8/50

All: -0.042+/-0.031 $\chi^2$/NDF: 116.1/93

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 175.629+/-0.043 $\chi^2$/NDF: 1563735.6/19

Left Out: 311.961+/-0.054 $\chi^2$/NDF:4350376.6/24

Right Out: 146.659+/-0.035 $\chi^2$/NDF: 3846913.5/25

Left In: 302.377+/-0.053 $\chi^2$/NDF:2808874.8/22

Left: 307.056+/-0.038 $\chi^2$/NDF: 7175242.0/47

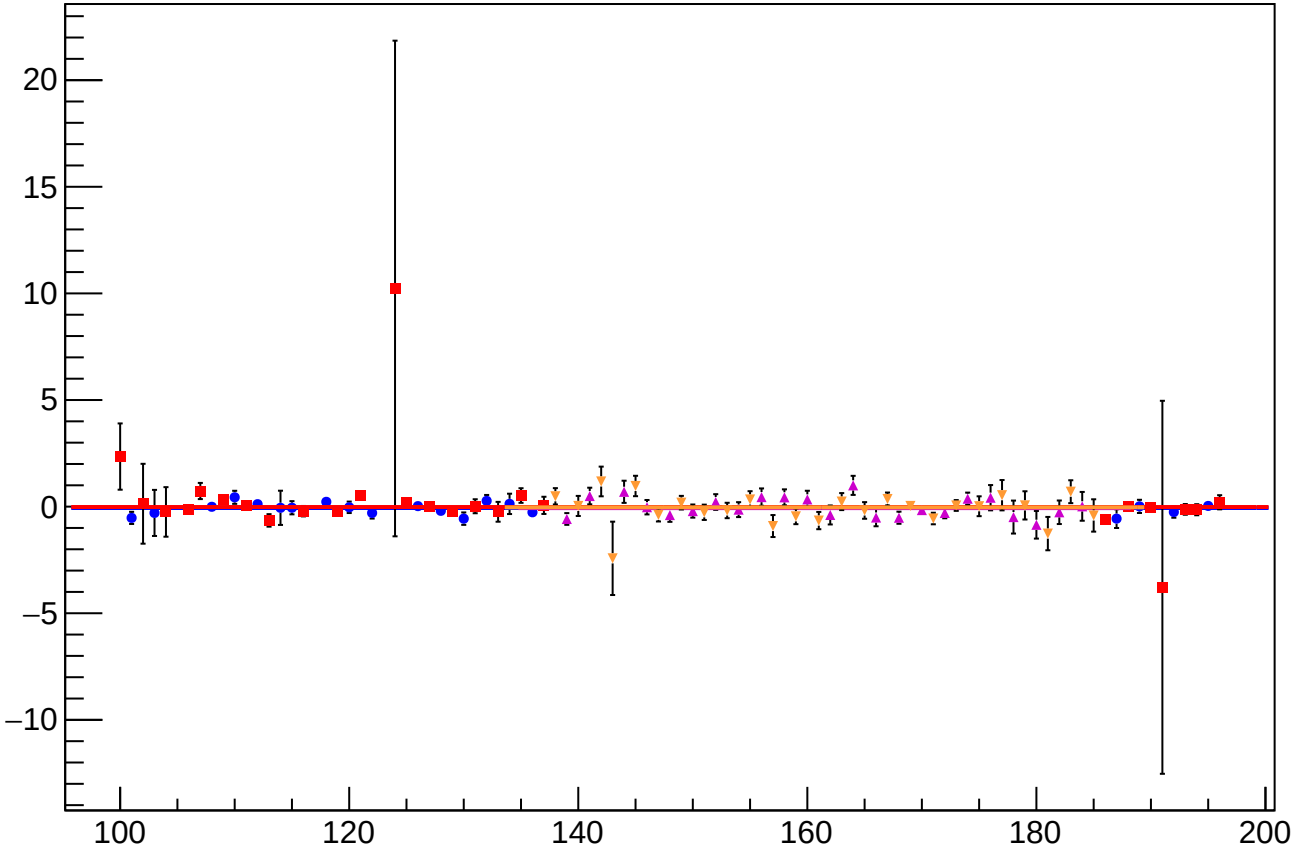
Right: 158.192+/-0.027 $\chi^2$/NDF: 5686249.4/45

In: 225.725+/-0.033 $\chi^2$/NDF:7836578.6/42

Out: 194.925+/-0.029 $\chi^2$/NDF:14778866.9/50

All: 208.365+/-0.022 $\chi^2$/NDF: 23097773.6/93

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.063+/-0.061 $\chi^2$/NDF: 16.9/19

Left Out: -0.035+/-0.077 $\chi^2$/NDF:32.5/24

Right Out: -0.018+/-0.049 $\chi^2$/NDF: 36.2/25

Left In: -0.069+/-0.075 $\chi^2$/NDF:29.9/22

Left: -0.052+/-0.054 $\chi^2$/NDF: 62.6/47

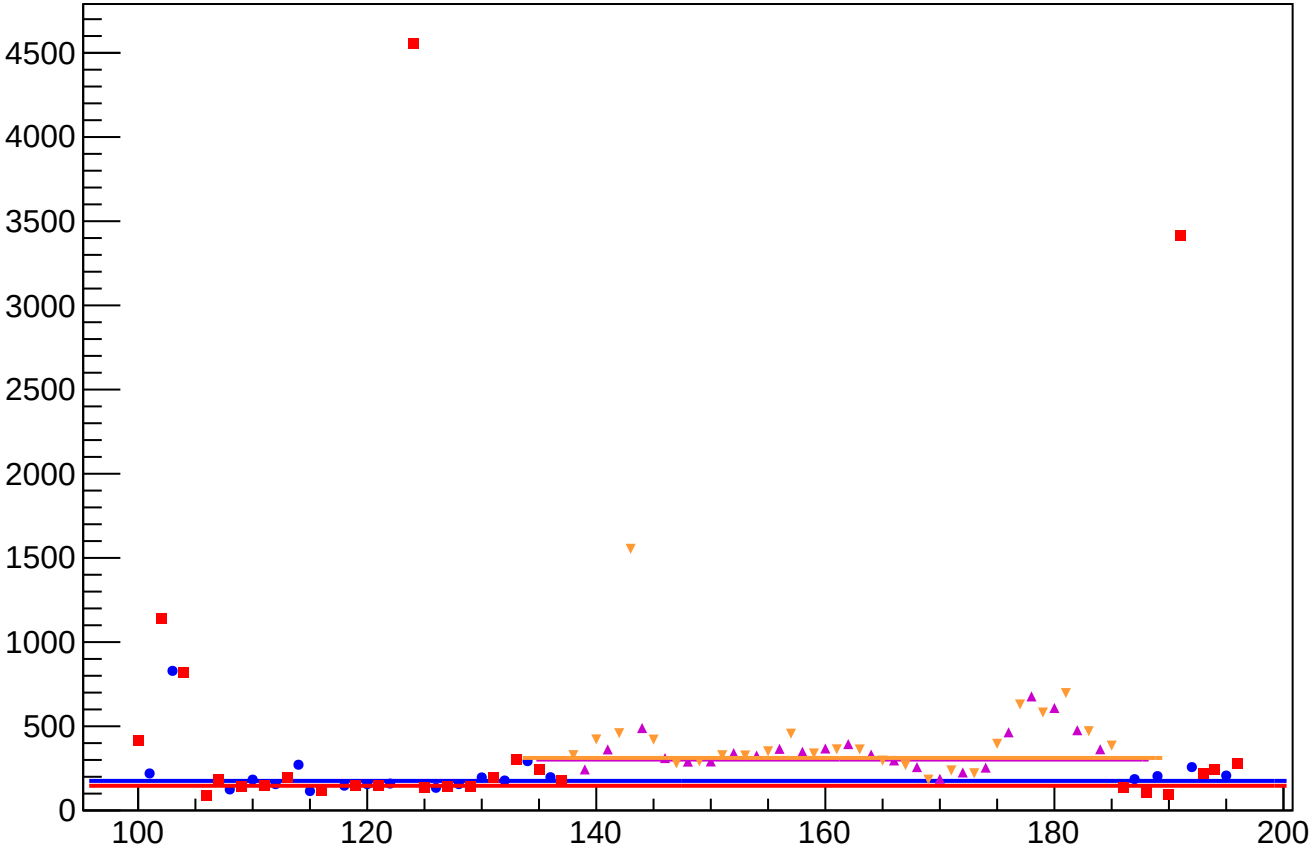
Right: -0.036+/-0.038 $\chi^2$/NDF: 53.5/45

In: -0.065+/-0.047 $\chi^2$/NDF:46.8/42

Out: -0.023+/-0.041 $\chi^2$/NDF:68.8/50

All: -0.042+/-0.031 $\chi^2$/NDF: 116.1/93

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 175.629+/-0.043 $\chi^2$/NDF: 1563735.6/19

Left Out: 311.961+/-0.054 $\chi^2$/NDF:4350376.6/24

Right Out: 146.659+/-0.035 $\chi^2$/NDF: 3846913.5/25

Left In: 302.377+/-0.053 $\chi^2$/NDF:2808874.8/22

Left: 307.056+/-0.038 $\chi^2$/NDF: 7175242.0/47

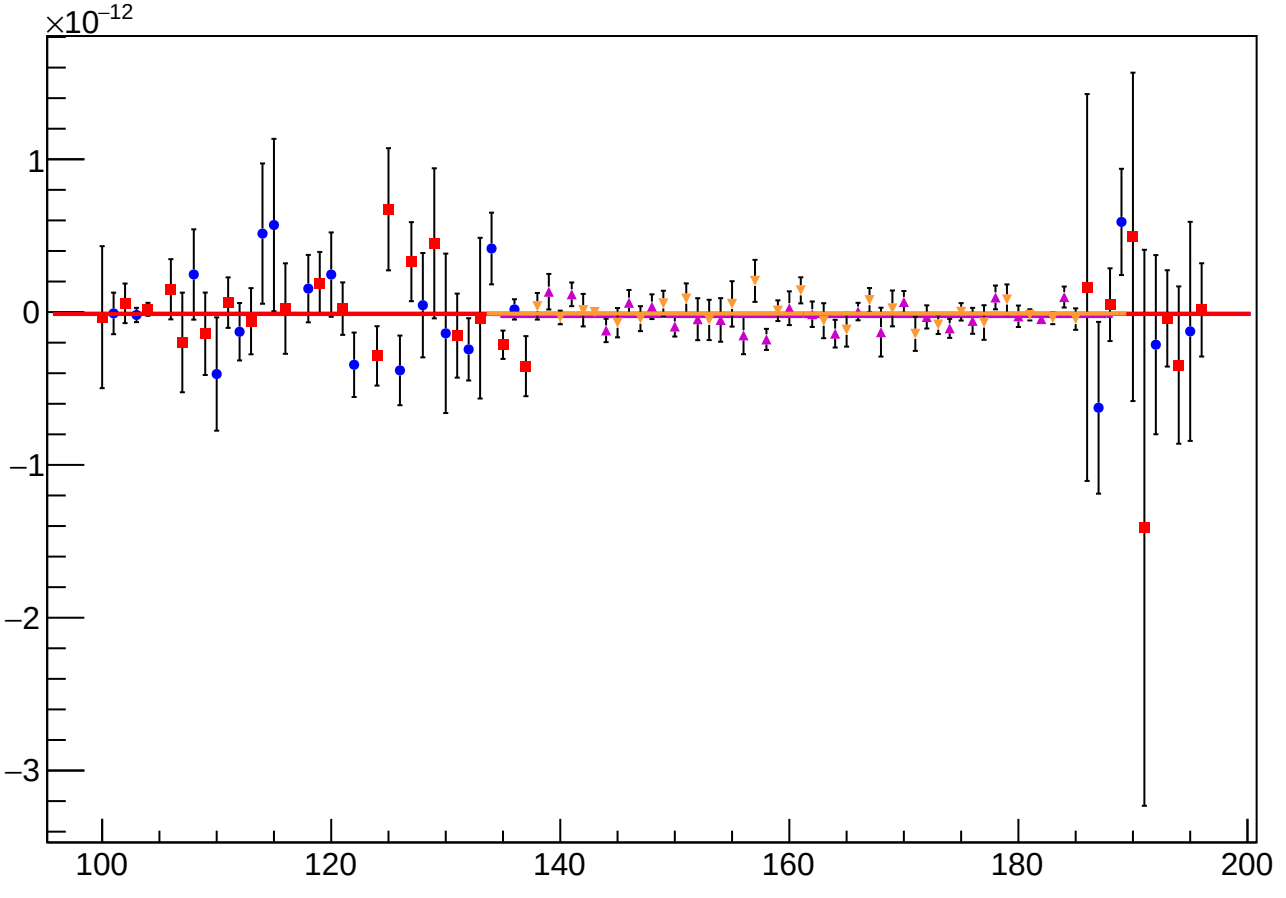
Right: 158.192+/-0.027 $\chi^2$/NDF: 5686249.4/45

In: 225.725+/-0.033 $\chi^2$/NDF:7836578.6/42

Out: 194.925+/-0.029 $\chi^2$/NDF:14778866.9/50

All: 208.365+/-0.022 $\chi^2$/NDF: 23097773.6/93

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: 20.5/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:16.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.6/22

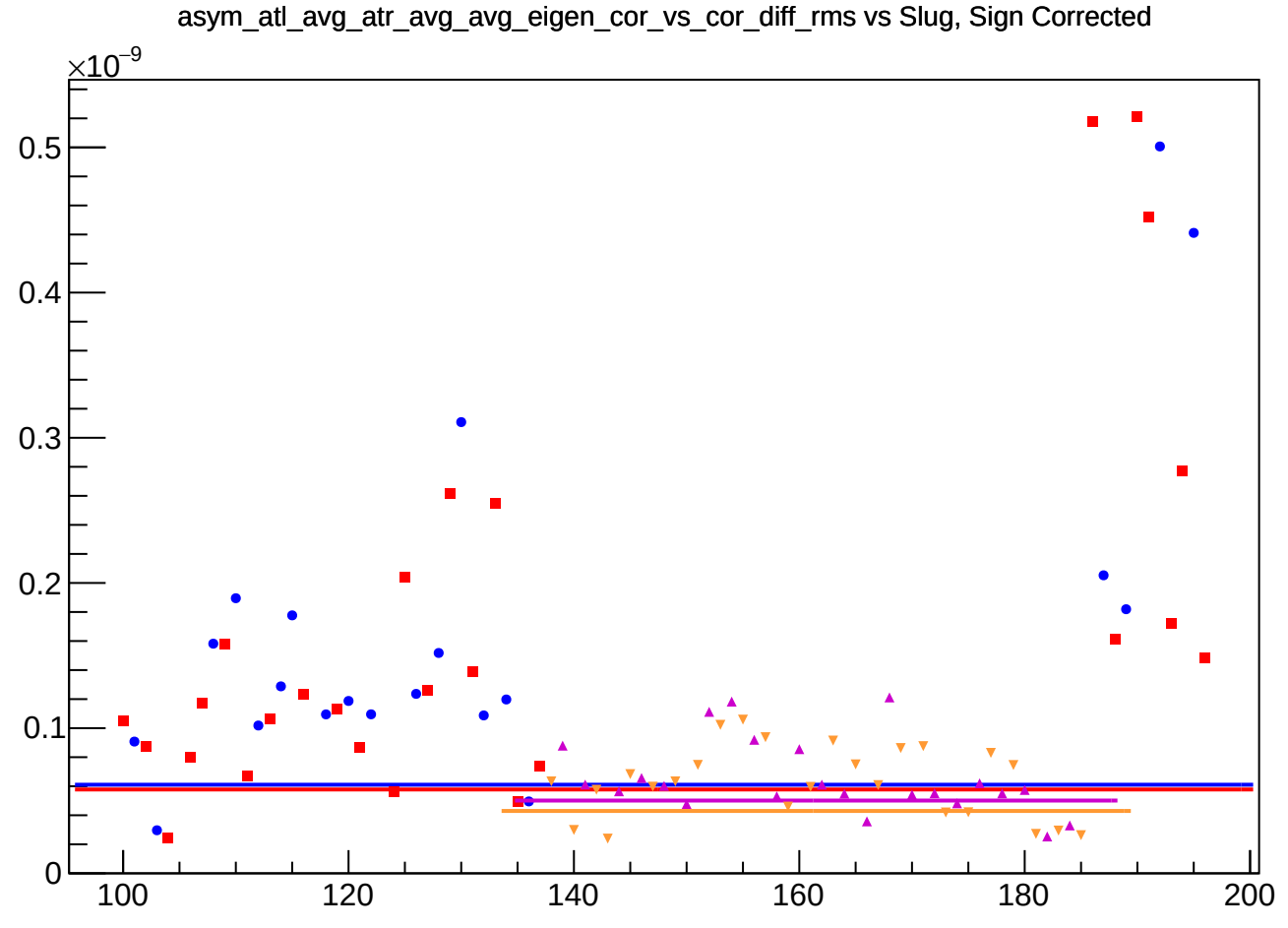
Left: -0.000+/-0.000 $\chi^2$/NDF: 44.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 40.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:48.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:36.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 85.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5069567.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5074676.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5262777.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3611362.7/22

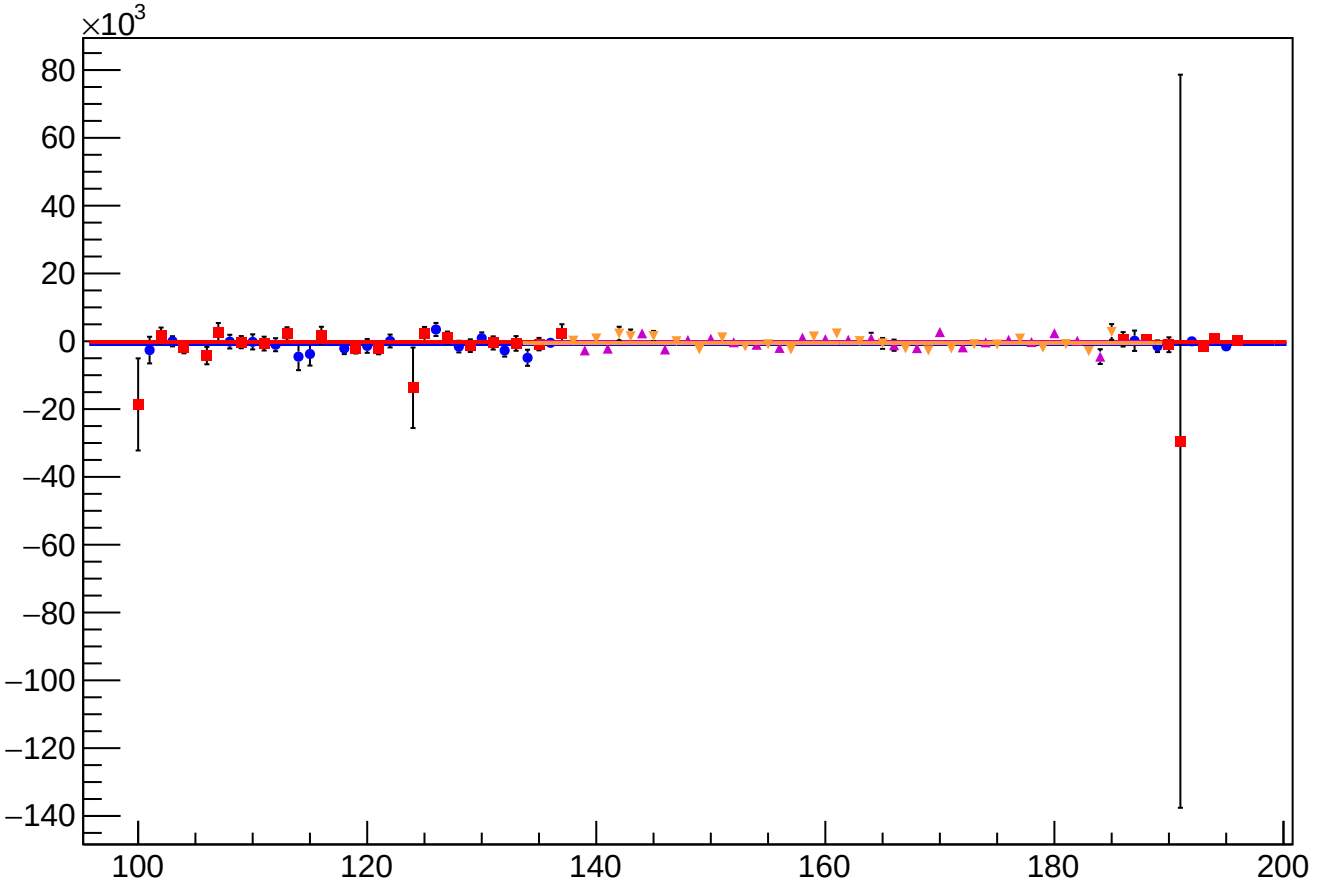
Left: 0.000+/-0.000 $\chi^2$/NDF: 8935509.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 10342950.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:8864054.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10724527.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 19855544.2/93




Right In: -803.131+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.484+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -213.109+/-385.476 $\chi^2$/NDF: 17.9/25

Left In: -242.686+/-291.166 $\chi^2$/NDF:32.0/22

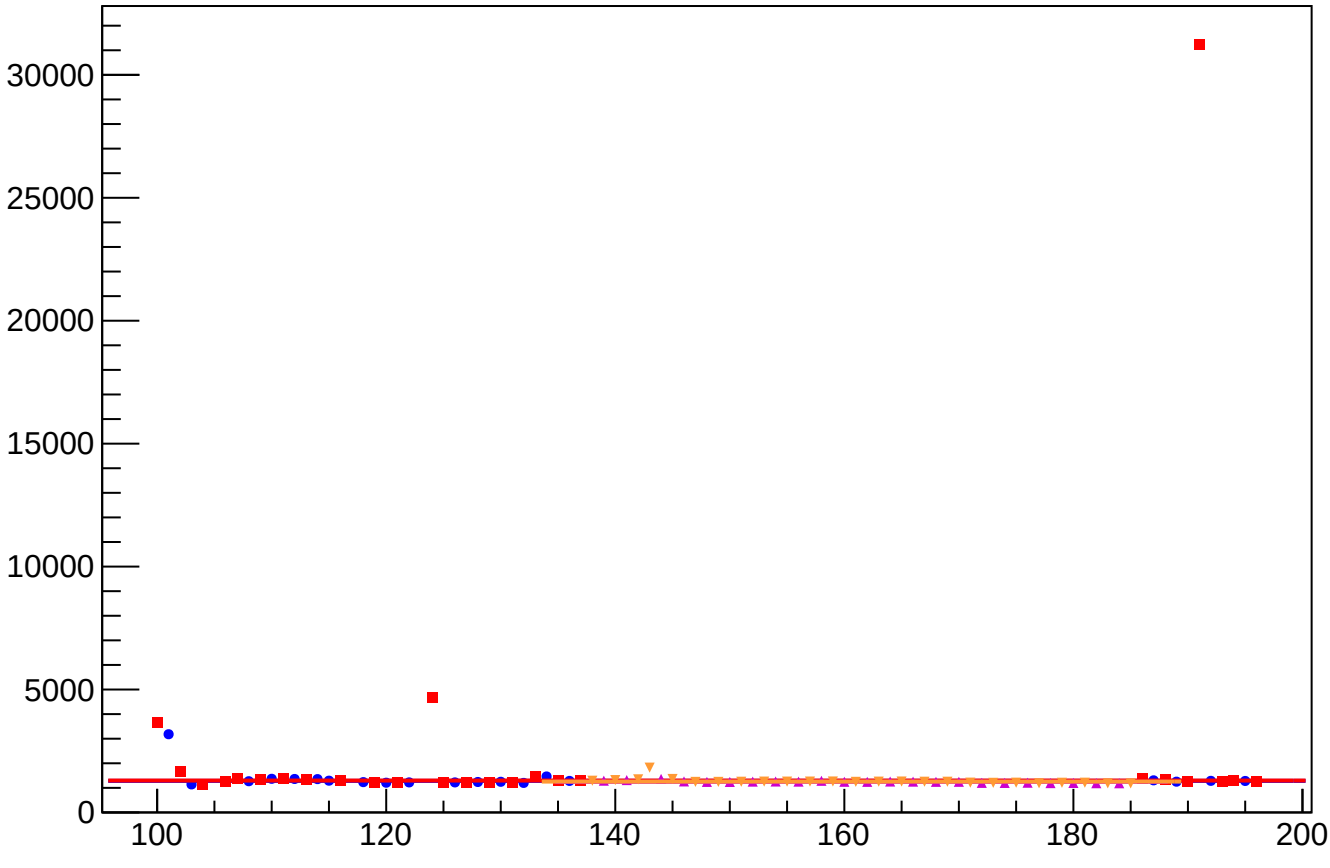
Left: -381.044+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -485.724+/-282.729 $\chi^2$/NDF: 33.3/45

In: -427.001+/-238.530 $\chi^2$/NDF:47.6/42

Out: -407.512+/-229.657 $\chi^2$/NDF:49.2/50

All: -416.887+/-165.440 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518962.8/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.1/24

Right Out: 1297.535+/-0.273 $\chi^2$/NDF: 489716.0/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

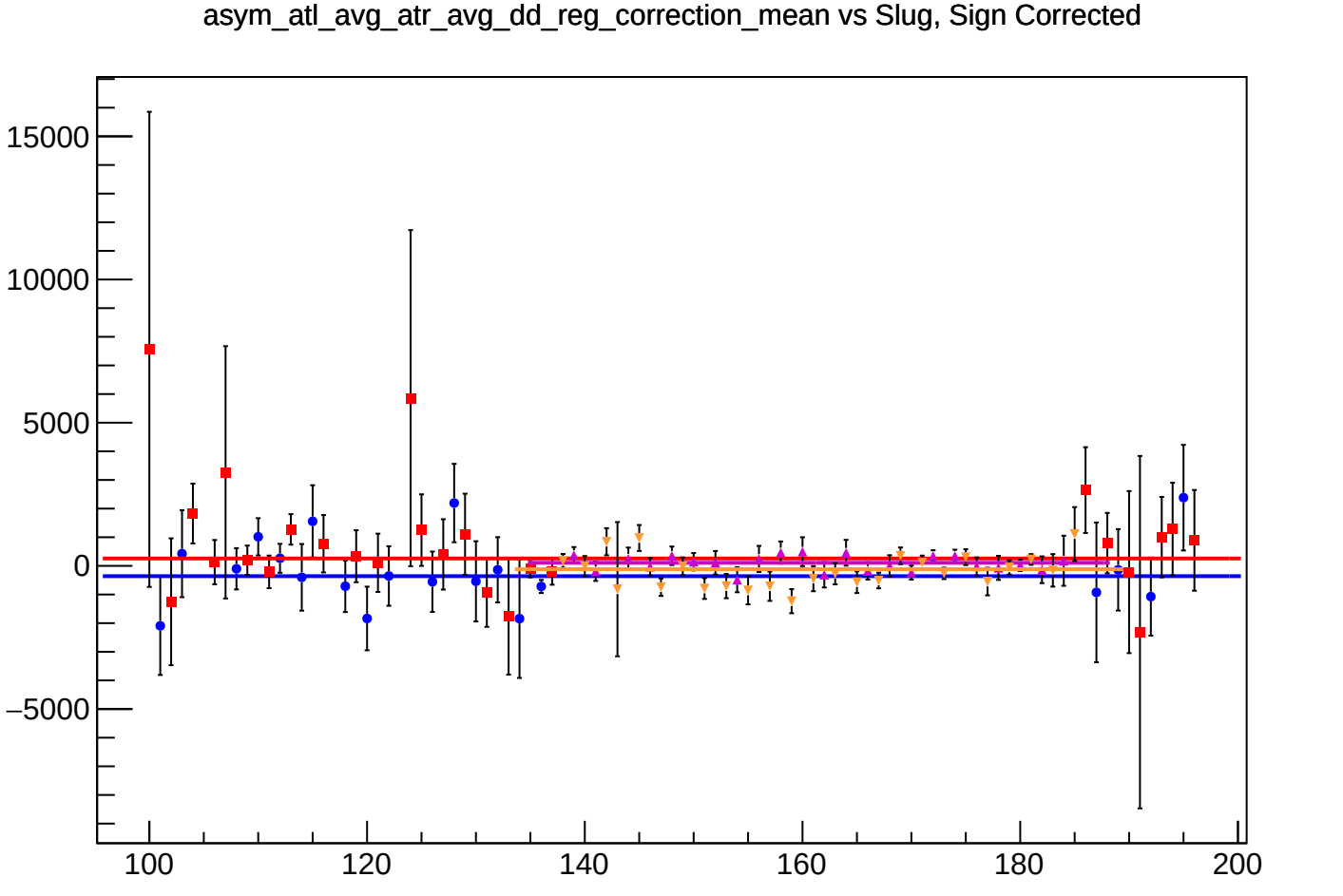
Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

Right: 1291.267+/-0.200 $\chi^2$/NDF: 1009823.1/45

In: 1258.725+/-0.169 $\chi^2$/NDF:569797.6/42

Out: 1270.429+/-0.162 $\chi^2$/NDF:708170.7/50

All: 1264.799+/-0.117 $\chi^2$/NDF: 1280467.1/93




Right In: -359.992+/-164.751 $\chi^2$/NDF: 20.7/19

Left Out: -117.028+/-65.059 $\chi^2$/NDF:48.4/24

Right Out: 257.908+/-163.331 $\chi^2$/NDF: 18.6/25

Left In: 107.341+/-67.001 $\chi^2$/NDF:13.7/22

Left: -8.142+/-46.675 $\chi^2$/NDF: 67.9/47

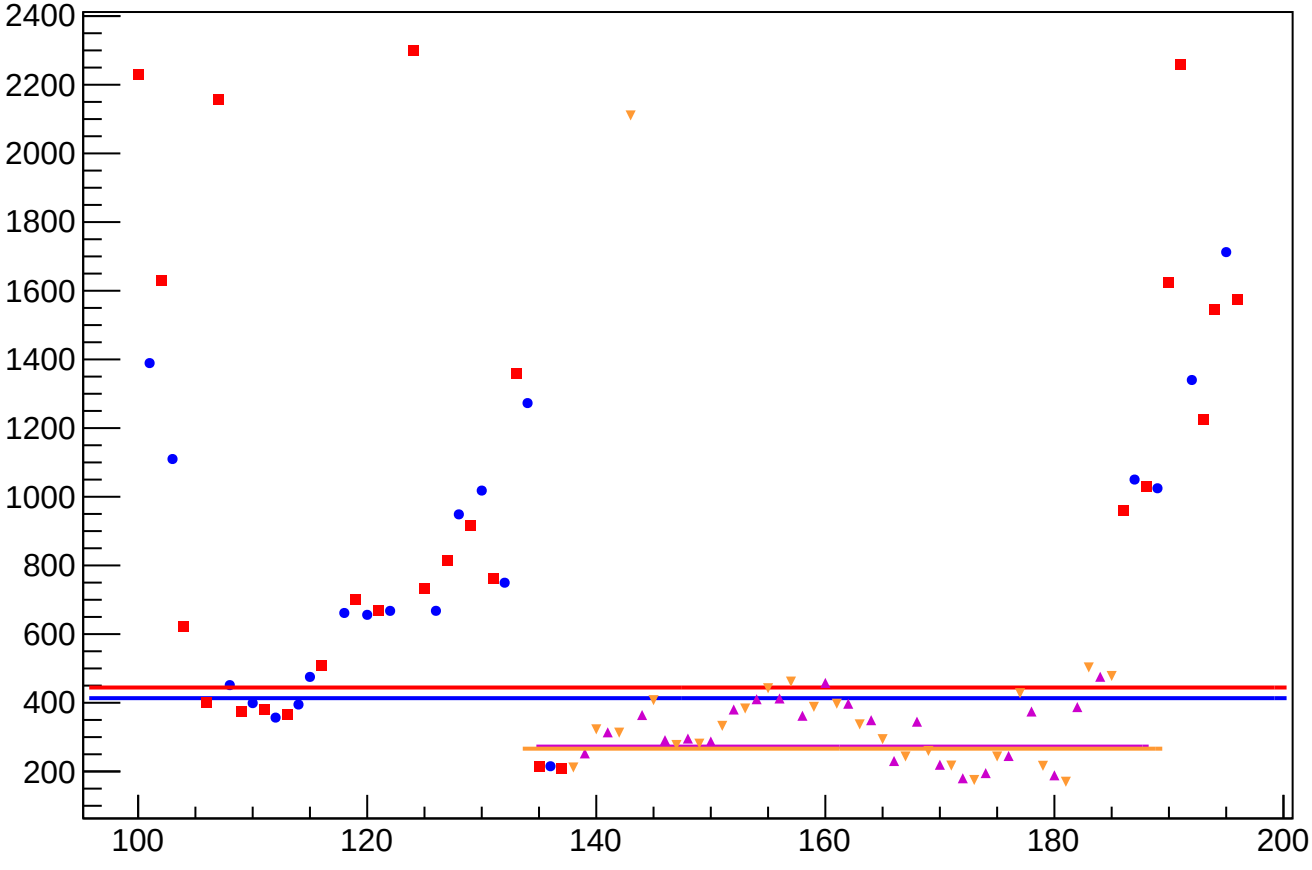
Right: -48.367+/-115.991 $\chi^2$/NDF: 46.5/45

In: 41.019+/-62.065 $\chi^2$/NDF:41.4/42

Out: -65.686+/-60.441 $\chi^2$/NDF:71.6/50

All: -13.748+/-43.301 $\chi^2$/NDF: 114.5/93

asym_atl_avg_atr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.116 $\chi^2$/NDF: 6710494.9/19

Left Out: 266.321+/-0.046 $\chi^2$/NDF:4630130.4/24

Right Out: 444.463+/-0.115 $\chi^2$/NDF: 8063759.6/25

Left In: 272.368+/-0.047 $\chi^2$/NDF:2887823.5/22

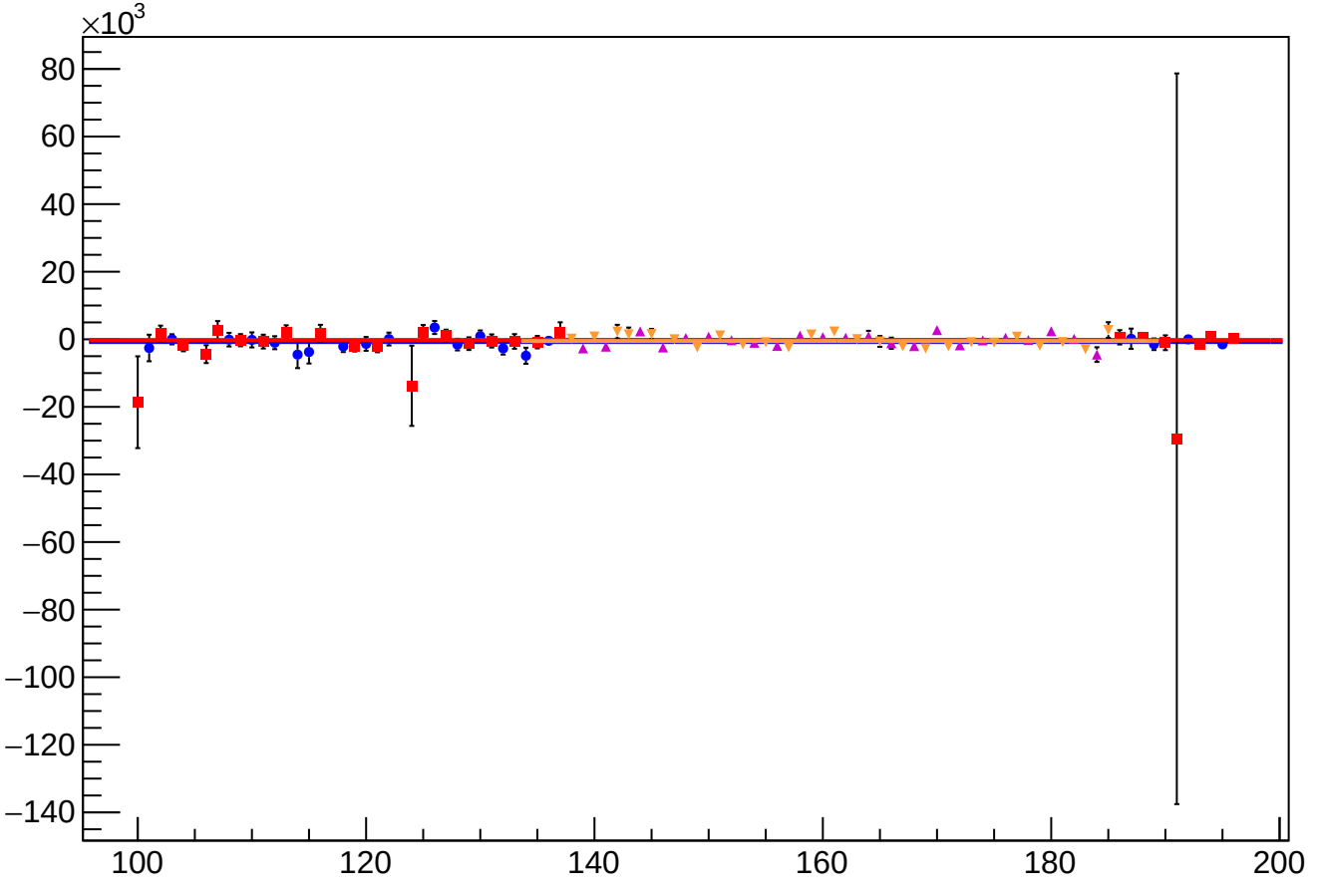
Left: 269.255+/-0.033 $\chi^2$/NDF: 7526339.3/47

Right: 429.086+/-0.082 $\chi^2$/NDF: 14810019.1/45

In: 292.388+/-0.044 $\chi^2$/NDF:10856623.6/42

Out: 290.715+/-0.043 $\chi^2$/NDF:14747281.0/50

All: 291.529+/-0.031 $\chi^2$/NDF: 25604650.7/93




Right In: -802.882+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.430+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -211.269+/-385.737 $\chi^2$/NDF: 18.0/25

Left In: -242.663+/-291.166 $\chi^2$/NDF:32.0/22

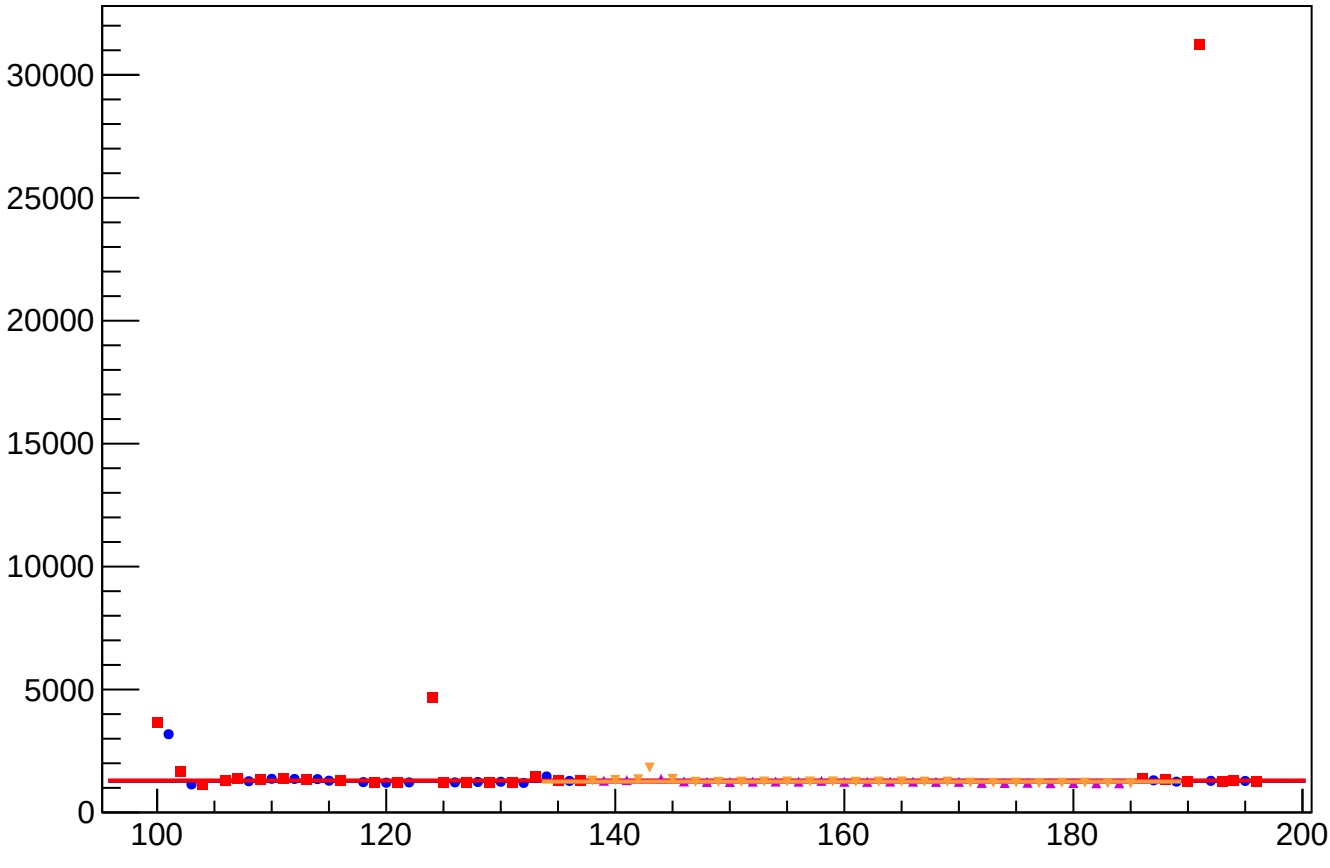
Left: -381.005+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -484.819+/-282.832 $\chi^2$/NDF: 33.3/45

In: -426.903+/-238.530 $\chi^2$/NDF:47.5/42

Out: -406.917+/-229.712 $\chi^2$/NDF:49.3/50

All: -416.534+/-165.461 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518964.3/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.0/24

Right Out: 1298.450+/-0.273 $\chi^2$/NDF: 489355.3/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

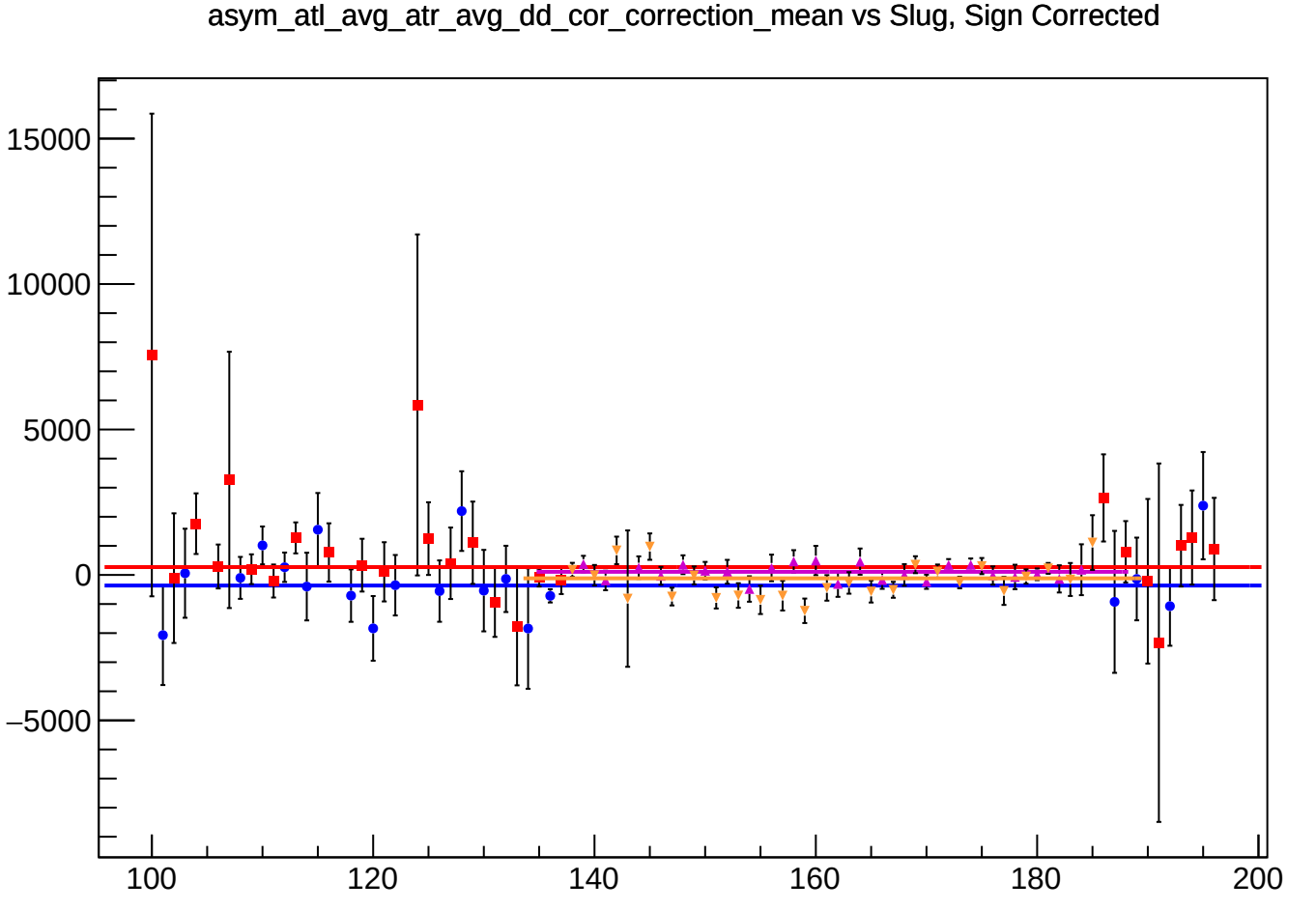
Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

Right: 1291.755+/-0.200 $\chi^2$/NDF: 1009622.6/45

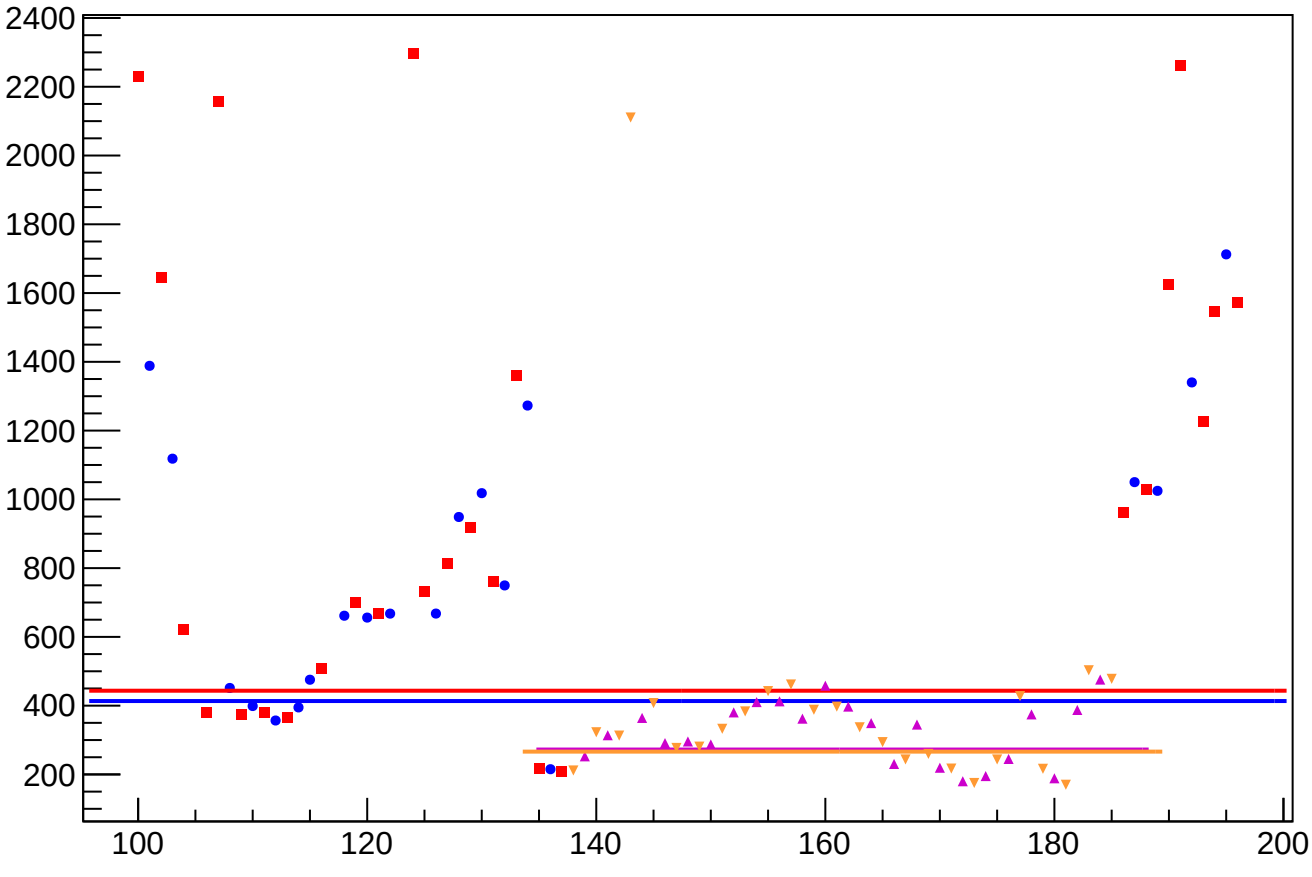
In: 1258.725+/-0.169 $\chi^2$/NDF:569798.9/42

Out: 1270.741+/-0.162 $\chi^2$/NDF:708470.9/50

All: 1264.959+/-0.117 $\chi^2$/NDF: 1280902.7/93


asym_atl_avg_atr_avg_dd_cor_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -364.257+/-164.770 χ²/NDF: 20.5/19
Left Out: -117.002+/-65.060 χ²/NDF:48.4/24
Right Out: 270.006+/-163.154 χ²/NDF: 18.0/25
Left In: 107.459+/-67.003 χ²/NDF:13.7/22
Left: -8.072+/-46.676 χ²/NDF: 68.0/47
Right: -44.000+/-115.934 χ²/NDF: 46.0/45
In: 40.525+/-62.067 χ²/NDF:41.3/42
Out: -63.905+/-60.433 χ²/NDF:71.3/50
All: -13.083+/-43.299 χ²/NDF: 114.0/93

asym_atl_avg_atr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.117 $\chi^2$/NDF: 6713661.0/19

Left Out: 266.326+/-0.046 $\chi^2$/NDF:4630167.4/24

Right Out: 443.459+/-0.115 $\chi^2$/NDF: 8078000.3/25

Left In: 272.378+/-0.047 $\chi^2$/NDF:2887597.1/22

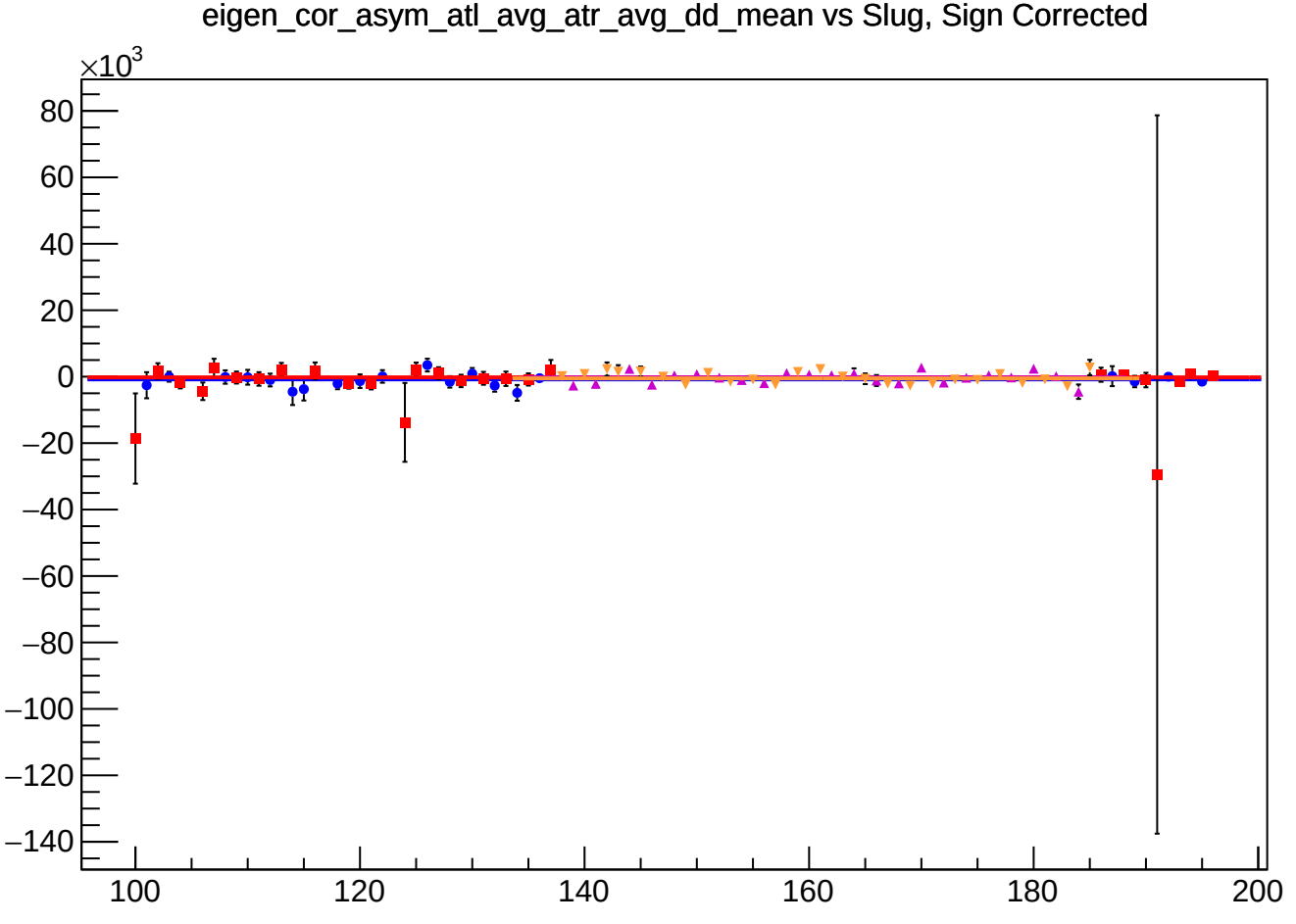
Left: 269.263+/-0.033 $\chi^2$/NDF: 7526161.0/47

Right: 428.598+/-0.082 $\chi^2$/NDF: 14825180.8/45

In: 292.394+/-0.044 $\chi^2$/NDF:10859134.3/42

Out: 290.629+/-0.043 $\chi^2$/NDF:14742134.8/50

All: 291.488+/-0.031 $\chi^2$/NDF: 25602099.4/93




Right In: -802.882+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.430+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -211.269+/-385.737 $\chi^2$/NDF: 18.0/25

Left In: -242.663+/-291.166 $\chi^2$/NDF:32.0/22

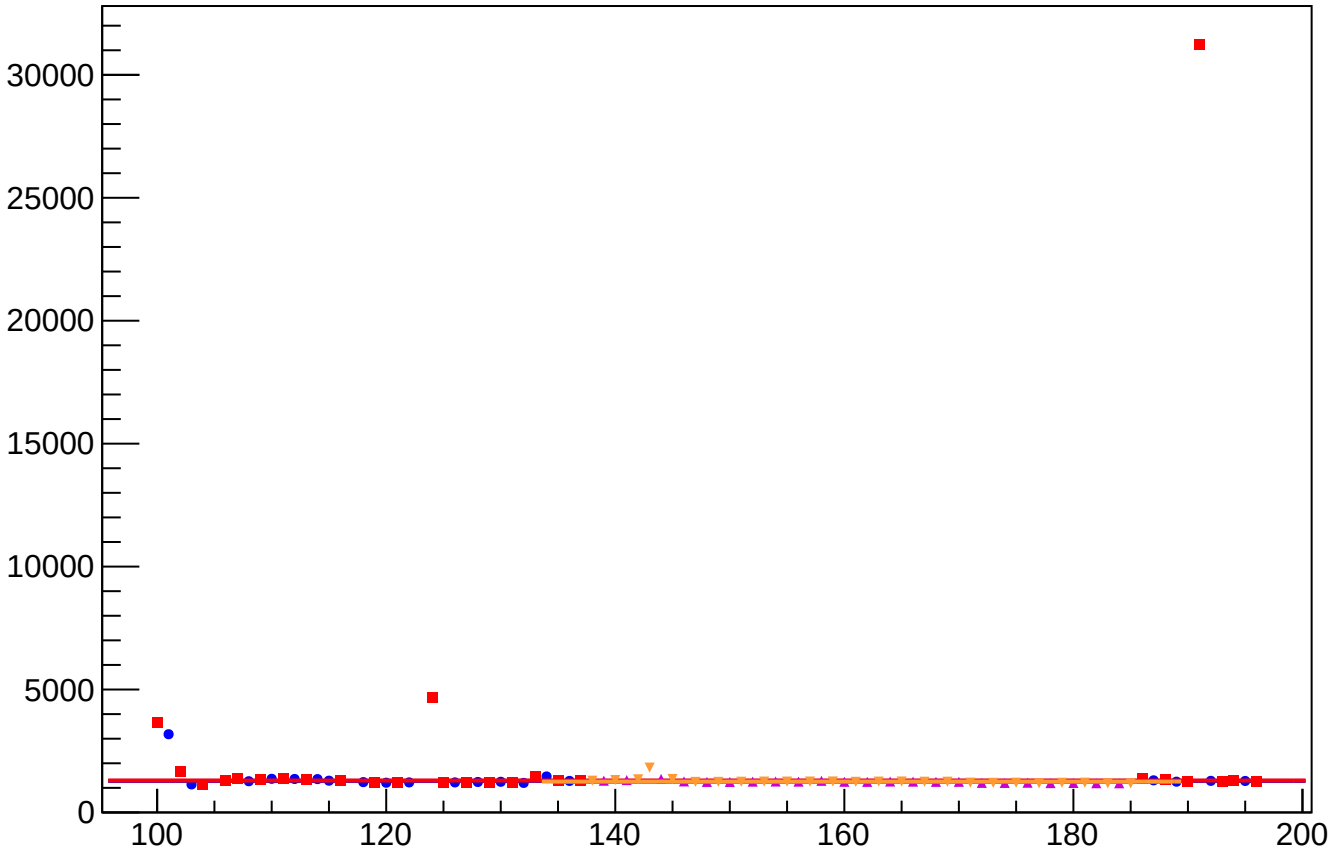
Left: -381.005+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -484.819+/-282.832 $\chi^2$/NDF: 33.3/45

In: -426.903+/-238.530 $\chi^2$/NDF:47.5/42

Out: -406.917+/-229.712 $\chi^2$/NDF:49.3/50

All: -416.534+/-165.461 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518964.3/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.0/24

Right Out: 1298.450+/-0.273 $\chi^2$/NDF: 489355.3/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

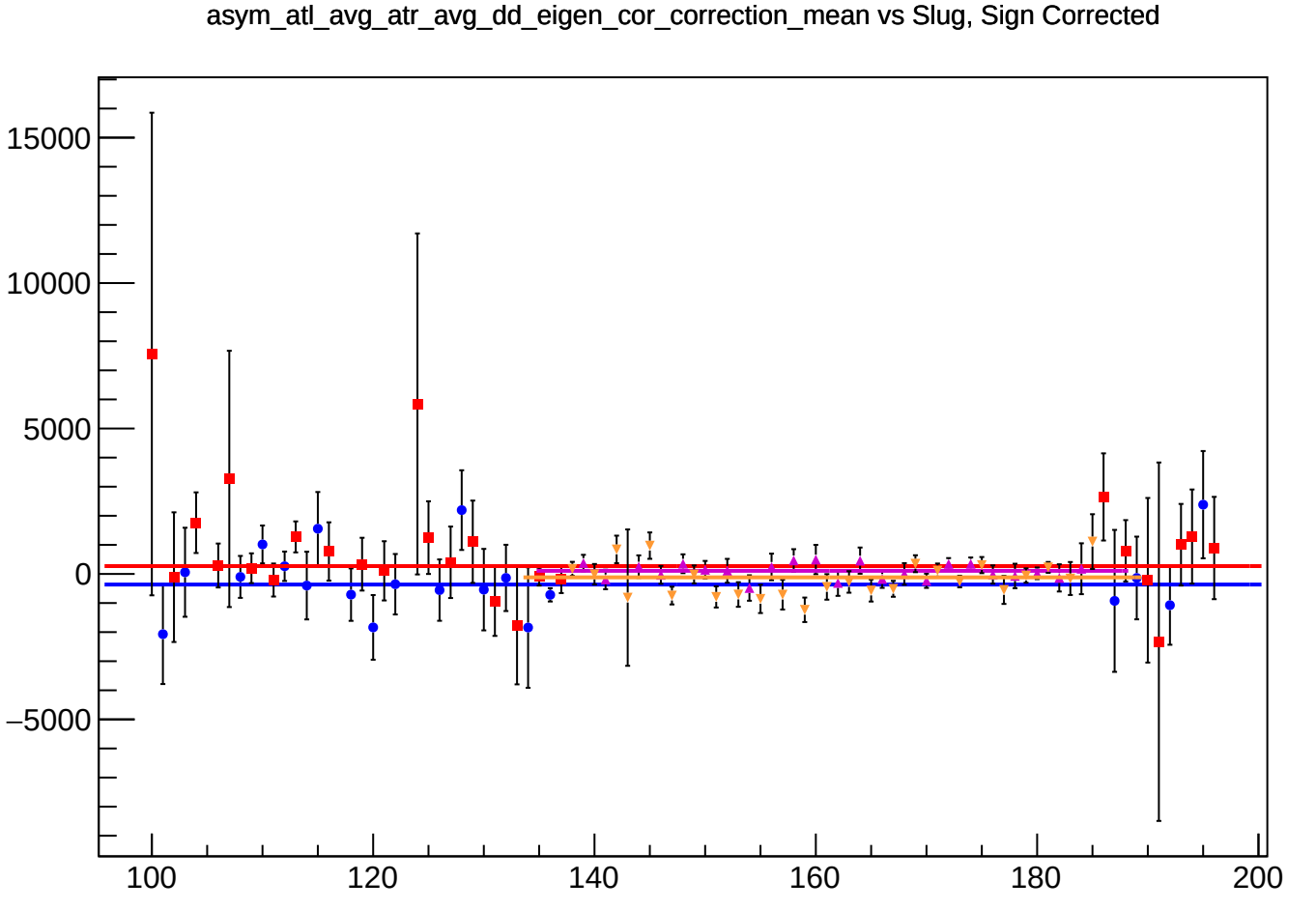
Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

Right: 1291.755+/-0.200 $\chi^2$/NDF: 1009622.6/45

In: 1258.725+/-0.169 $\chi^2$/NDF:569798.9/42

Out: 1270.741+/-0.162 $\chi^2$/NDF:708470.9/50

All: 1264.959+/-0.117 $\chi^2$/NDF: 1280902.7/93




Right In: -364.257+/-164.770 $\chi^2$/NDF: 20.5/19

Left Out: -117.002+/-65.060 $\chi^2$/NDF:48.4/24

Right Out: 270.006+/-163.154 $\chi^2$/NDF: 18.0/25

Left In: 107.459+/-67.003 $\chi^2$/NDF:13.7/22

Left: -8.072+/-46.676 $\chi^2$/NDF: 68.0/47

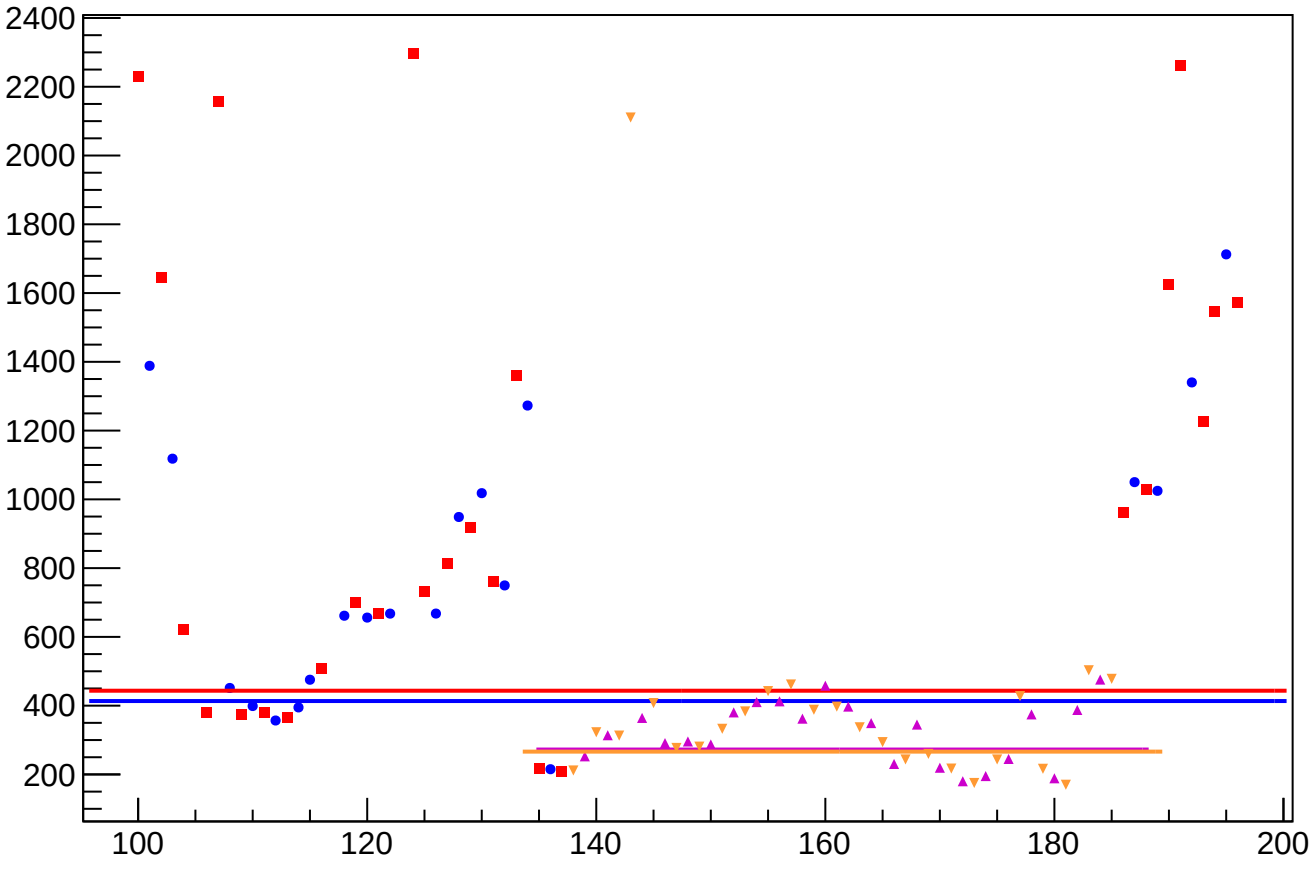
Right: -44.000+/-115.934 $\chi^2$/NDF: 46.0/45

In: 40.525+/-62.067 $\chi^2$/NDF:41.3/42

Out: -63.905+/-60.433 $\chi^2$/NDF:71.3/50

All: -13.083+/-43.299 $\chi^2$/NDF: 114.0/93

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.117 $\chi^2$/NDF: 6713661.0/19

Left Out: 266.326+/-0.046 $\chi^2$/NDF:4630167.4/24

Right Out: 443.459+/-0.115 $\chi^2$/NDF: 8078000.3/25

Left In: 272.378+/-0.047 $\chi^2$/NDF:2887597.1/22

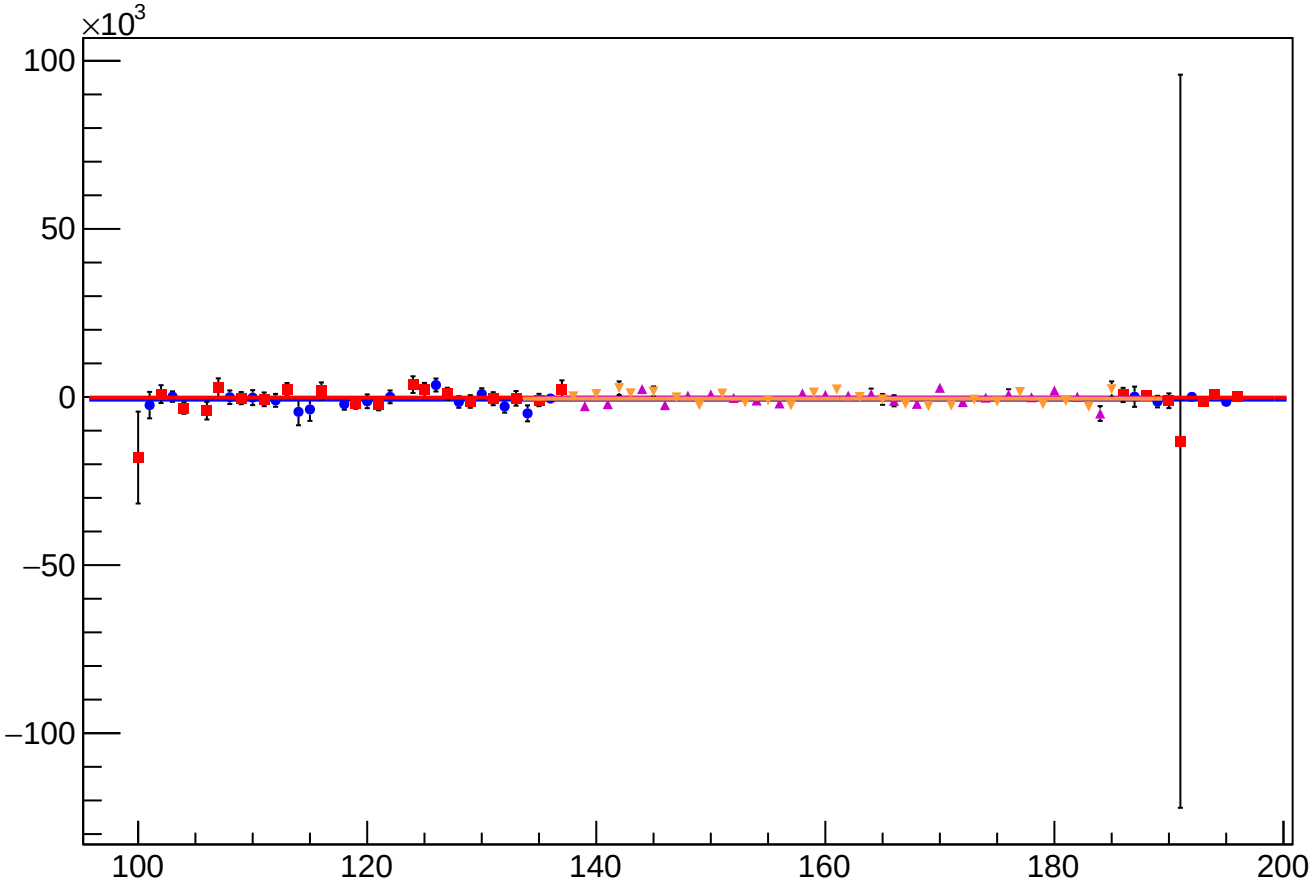
Left: 269.263+/-0.033 $\chi^2$/NDF: 7526161.0/47

Right: 428.598+/-0.082 $\chi^2$/NDF: 14825180.8/45

In: 292.394+/-0.044 $\chi^2$/NDF:10859134.3/42

Out: 290.629+/-0.043 $\chi^2$/NDF:14742134.8/50

All: 291.488+/-0.031 $\chi^2$/NDF: 25602099.4/93




Right In: -767.806+/-417.551 $\chi^2$/NDF: 14.4/19

Left Out: -493.436+/-282.734 $\chi^2$/NDF:34.2/24

Right Out: -182.310+/-384.109 $\chi^2$/NDF: 19.9/25

Left In: -242.004+/-294.339 $\chi^2$/NDF:30.7/22

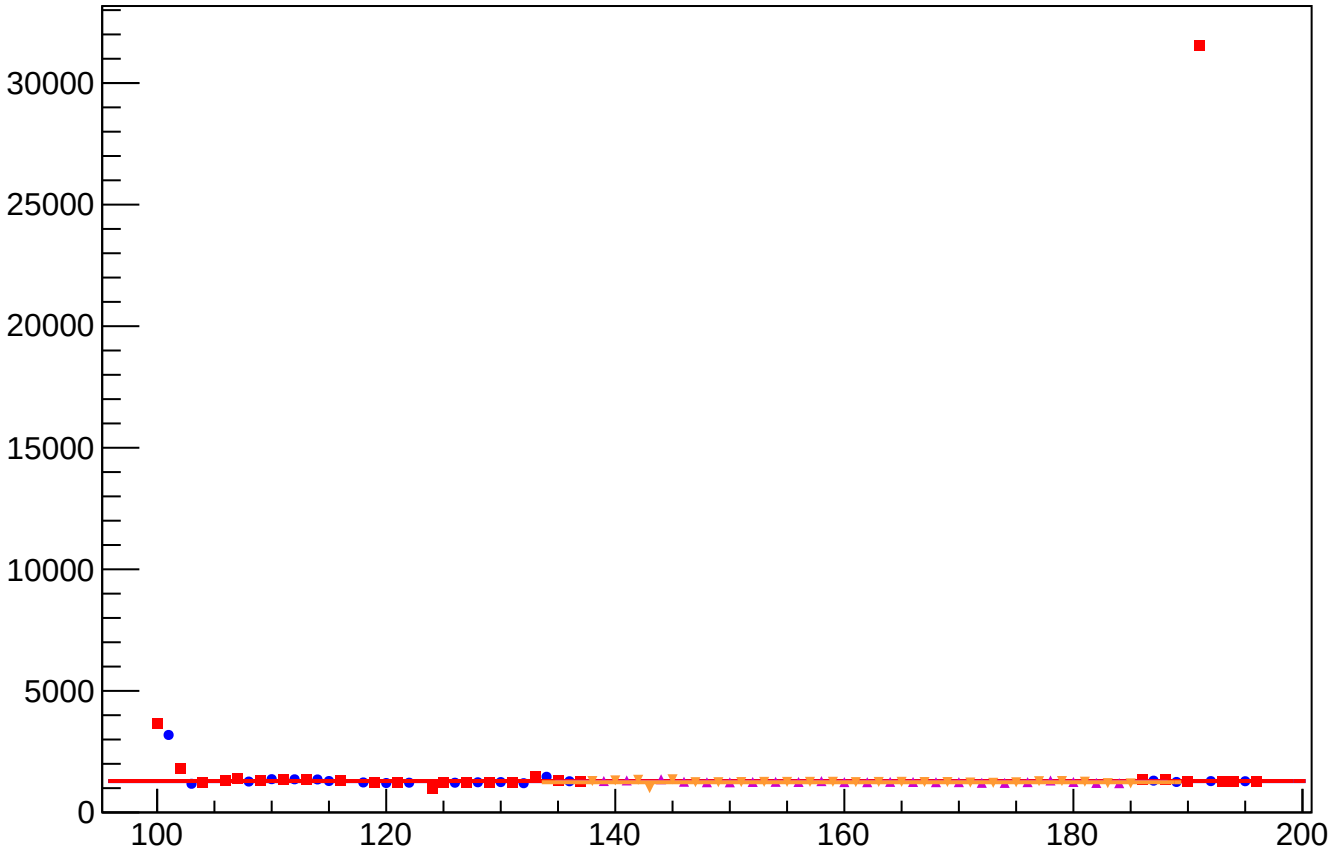
Left: -372.774+/-203.903 $\chi^2$/NDF: 65.3/47

Right: -450.676+/-282.690 $\chi^2$/NDF: 35.3/45

In: -416.548+/-240.575 $\chi^2$/NDF:46.2/42

Out: -384.102+/-227.700 $\chi^2$/NDF:54.5/50

All: -399.434+/-165.372 $\chi^2$/NDF: 100.7/93




Right In: 1289.136+/-0.295 $\chi^2$/NDF: 510390.0/19

Left Out: 1242.539+/-0.200 $\chi^2$/NDF:130023.1/24

Right Out: 1293.260+/-0.272 $\chi^2$/NDF: 372145.0/25

Left In: 1260.094+/-0.208 $\chi^2$/NDF:27932.1/22

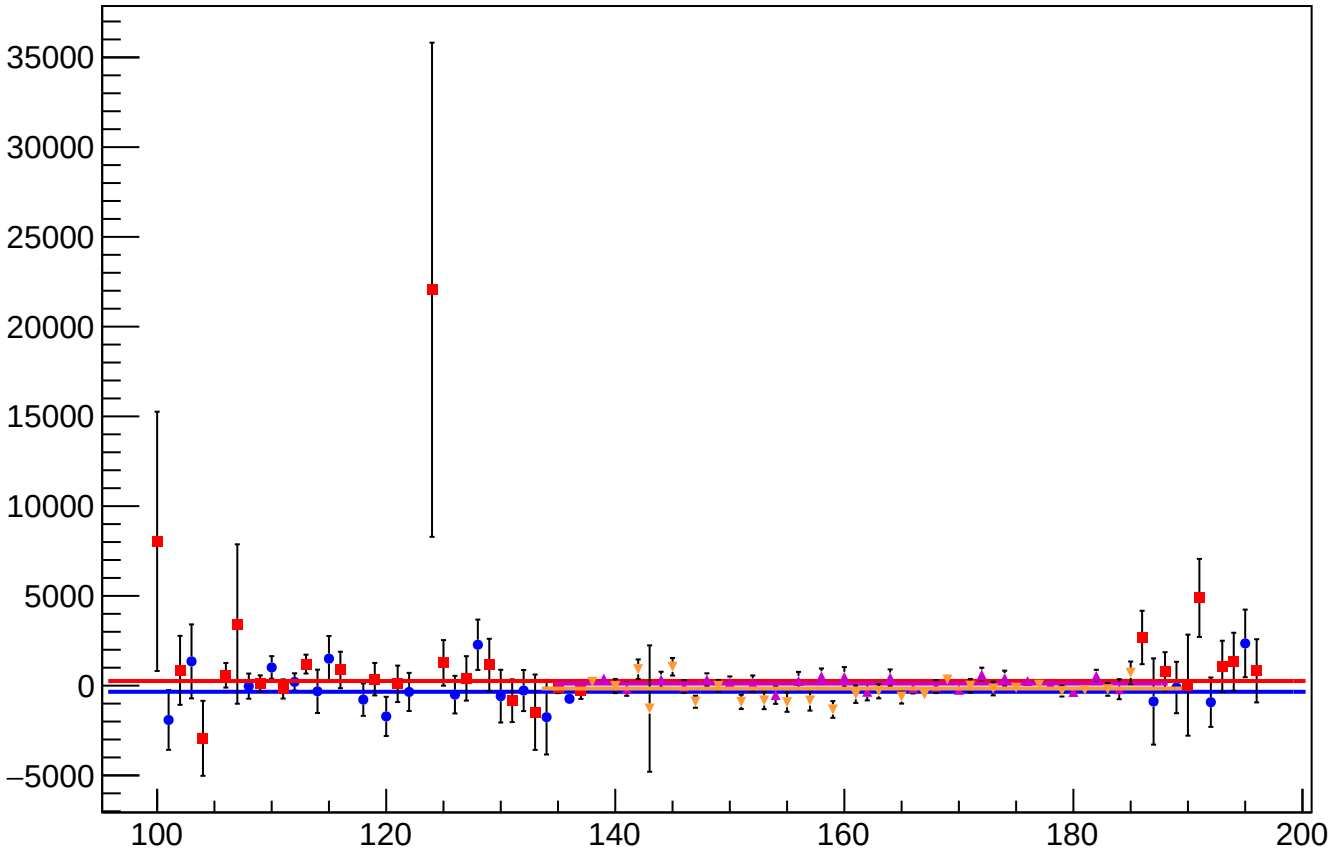
Left: 1250.964+/-0.144 $\chi^2$/NDF: 161655.2/47

Right: 1291.370+/-0.200 $\chi^2$/NDF: 882640.7/45

In: 1269.734+/-0.170 $\chi^2$/NDF:544785.6/42

Out: 1260.363+/-0.161 $\chi^2$/NDF:524786.8/50

All: 1264.791+/-0.117 $\chi^2$/NDF: 1071173.1/93




Right In: -341.534+/-166.469 $\chi^2$/NDF: 20.7/19

Left Out: -160.930+/-64.133 $\chi^2$/NDF:43.8/24

Right Out: 258.972+/-163.075 $\chi^2$/NDF: 24.5/25

Left In: 113.722+/-68.841 $\chi^2$/NDF:18.2/22

Left: -33.316+/-46.925 $\chi^2$/NDF: 70.5/47

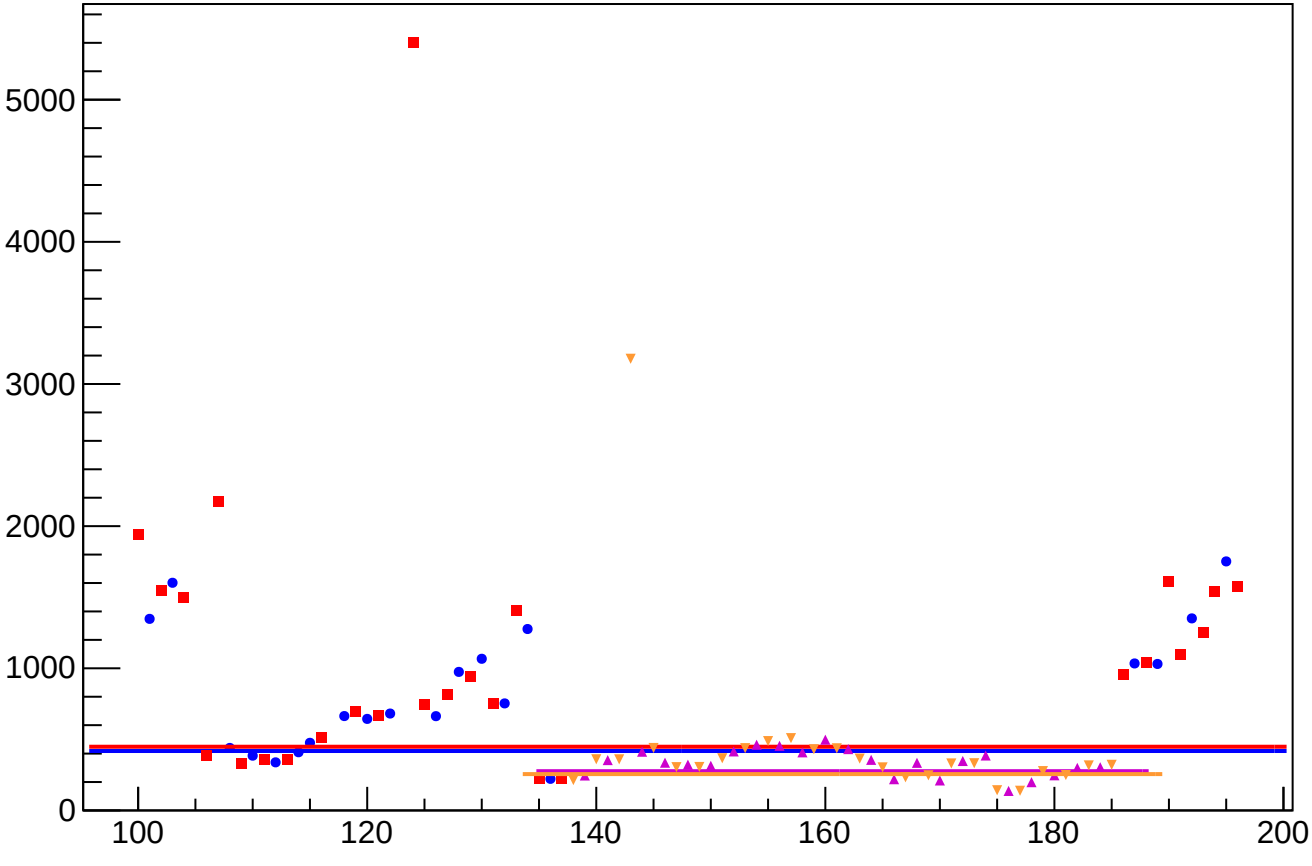
Right: -35.097+/-116.493 $\chi^2$/NDF: 51.9/45

In: 47.238+/-63.616 $\chi^2$/NDF:45.3/42

Out: -104.685+/-59.683 $\chi^2$/NDF:74.0/50

All: -33.564+/-43.526 $\chi^2$/NDF: 122.4/93

asym_atl_avg_atr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 418.165+/-0.118 $\chi^2$/NDF: 6831387.5/19

Left Out: 255.768+/-0.045 $\chi^2$/NDF:6373929.4/24

Right Out: 448.288+/-0.115 $\chi^2$/NDF: 8581502.2/25

Left In: 276.298+/-0.049 $\chi^2$/NDF:4027410.5/22

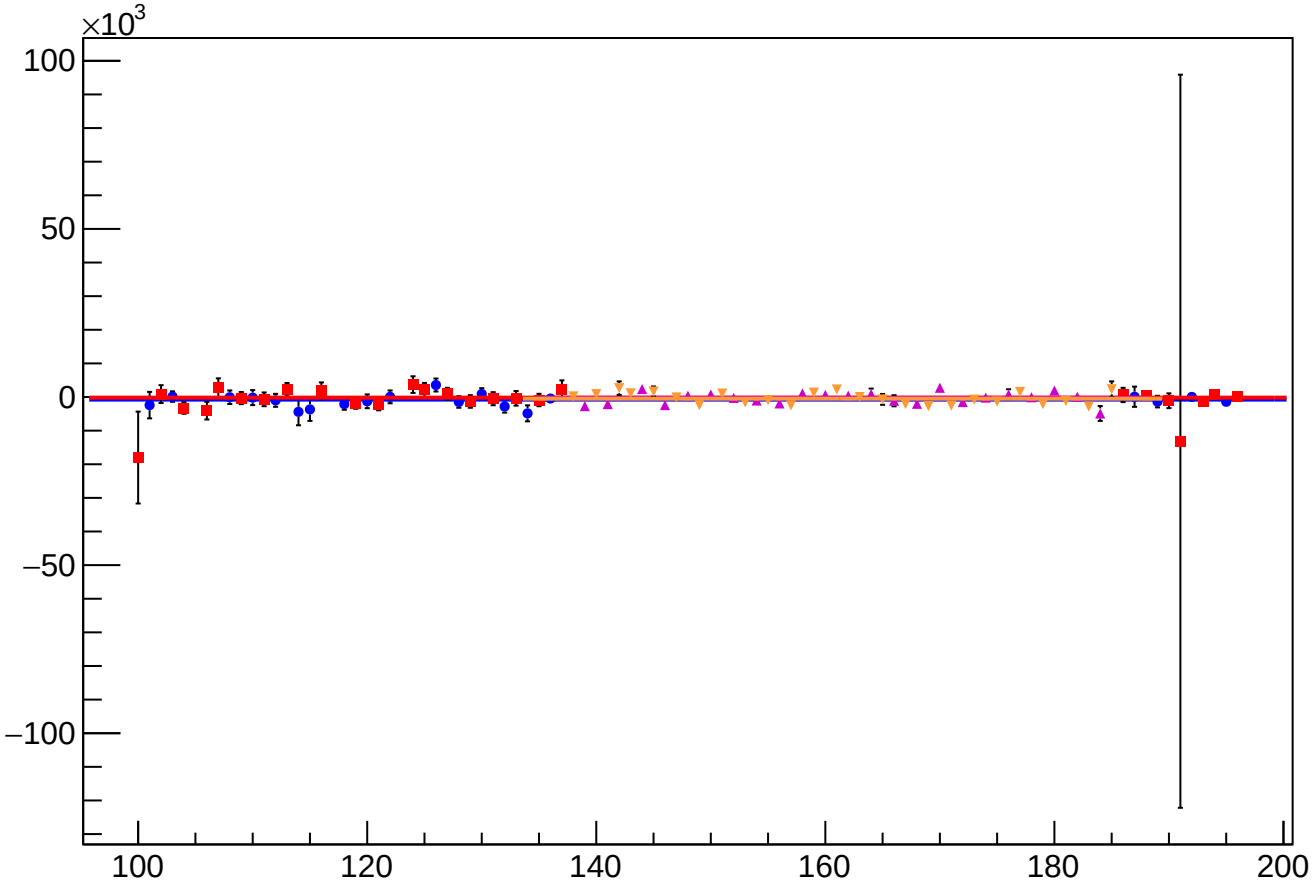
Left: 265.307+/-0.033 $\chi^2$/NDF: 10496569.7/47

Right: 433.537+/-0.082 $\chi^2$/NDF: 15446307.7/45

In: 297.016+/-0.045 $\chi^2$/NDF:12099204.9/42

Out: 281.555+/-0.042 $\chi^2$/NDF:17369513.9/50

All: 288.793+/-0.031 $\chi^2$/NDF: 29531547.4/93




Right In: -767.808+/-417.551 $\chi^2$/NDF: 14.4/19

Left Out: -493.435+/-282.734 $\chi^2$/NDF:34.2/24

Right Out: -182.309+/-384.109 $\chi^2$/NDF: 19.9/25

Left In: -242.004+/-294.339 $\chi^2$/NDF:30.7/22

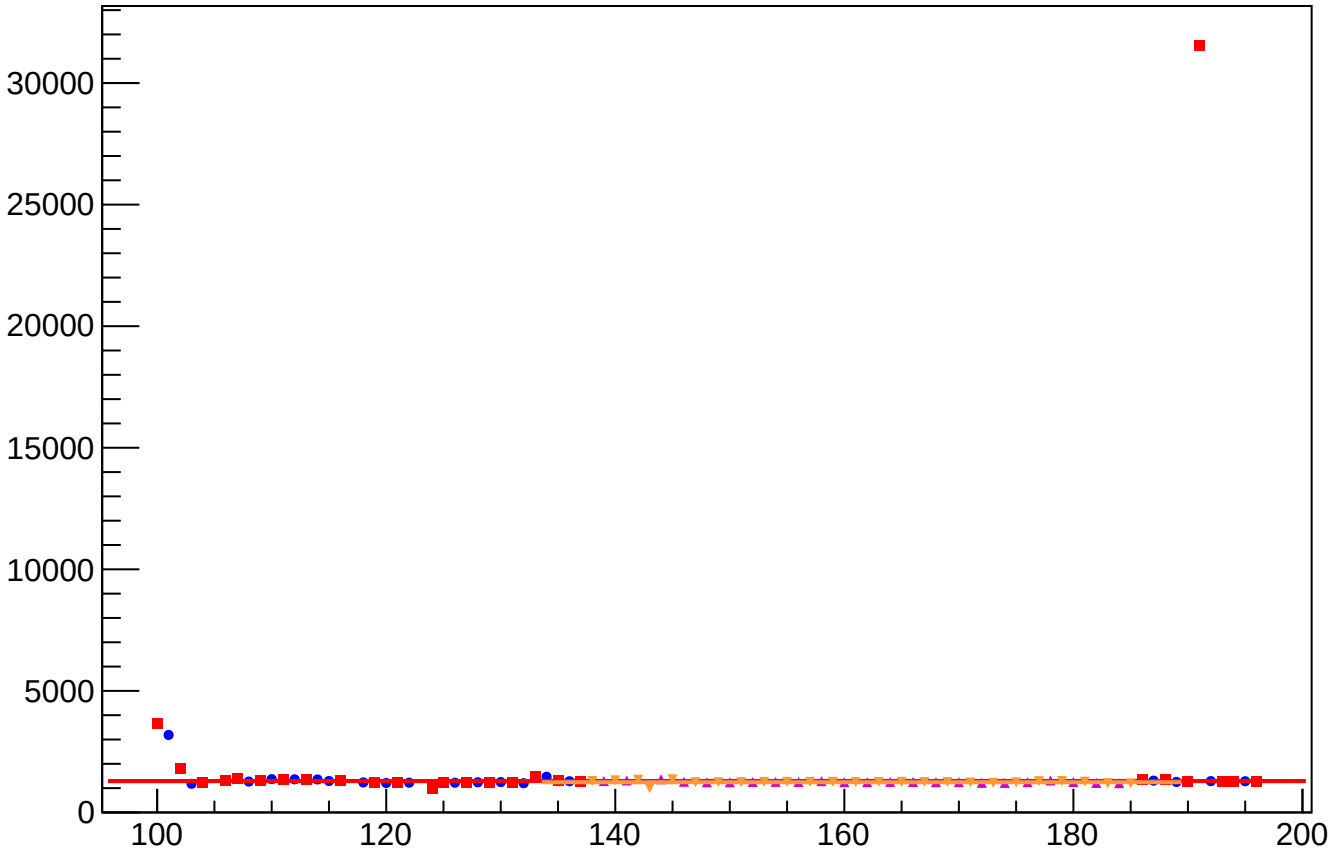
Left: -372.774+/-203.903 $\chi^2$/NDF: 65.3/47

Right: -450.677+/-282.690 $\chi^2$/NDF: 35.3/45

In: -416.549+/-240.575 $\chi^2$/NDF:46.2/42

Out: -384.102+/-227.700 $\chi^2$/NDF:54.5/50

All: -399.434+/-165.372 $\chi^2$/NDF: 100.7/93




Right In: 1289.136+/-0.295 $\chi^2$/NDF: 510390.0/19

Left Out: 1242.539+/-0.200 $\chi^2$/NDF:130022.2/24

Right Out: 1293.260+/-0.272 $\chi^2$/NDF: 372145.3/25

Left In: 1260.094+/-0.208 $\chi^2$/NDF:27932.2/22

Left: 1250.964+/-0.144 $\chi^2$/NDF: 161654.3/47

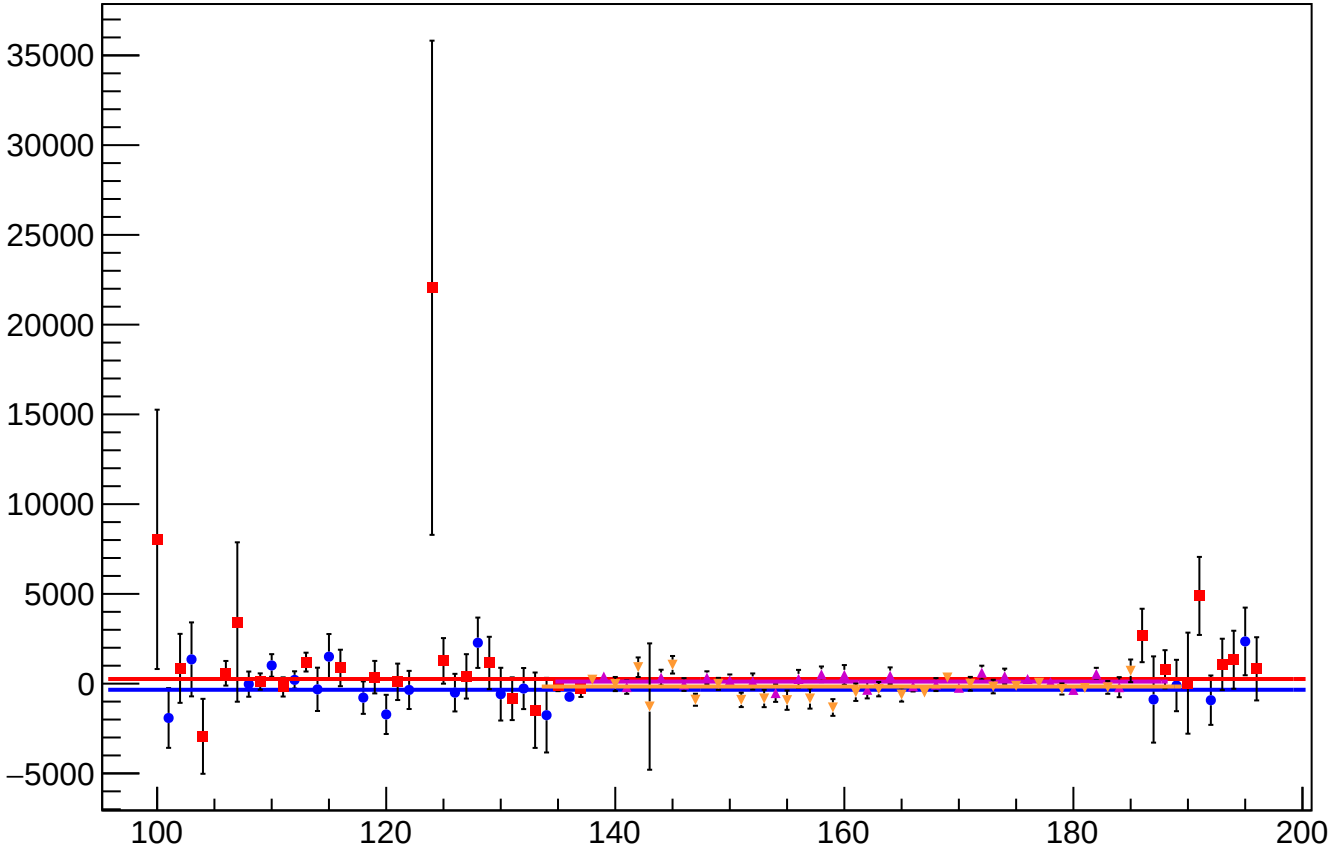
Right: 1291.370+/-0.200 $\chi^2$/NDF: 882641.0/45

In: 1269.734+/-0.170 $\chi^2$/NDF:544785.7/42

Out: 1260.363+/-0.161 $\chi^2$/NDF:524786.1/50

All: 1264.791+/-0.117 $\chi^2$/NDF: 1071172.5/93

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -341.534+/-166.472 $\chi^2$/NDF: 20.7/19

Left Out: -160.933+/-64.133 $\chi^2$/NDF:43.8/24

Right Out: 258.980+/-163.077 $\chi^2$/NDF: 24.5/25

Left In: 113.720+/-68.841 $\chi^2$/NDF:18.2/22

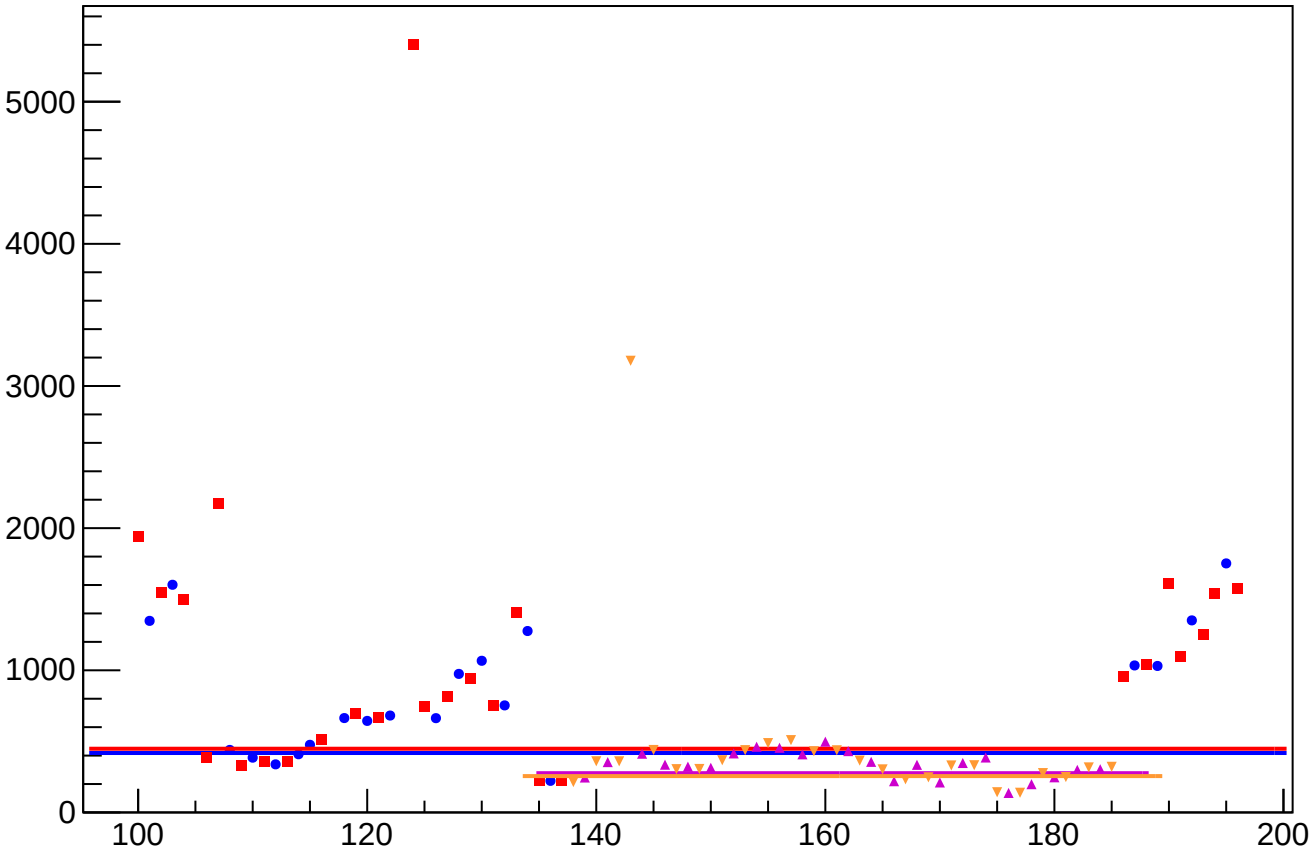
Left: -33.318+/-46.925 $\chi^2$/NDF: 70.5/47

Right: -35.091+/-116.494 $\chi^2$/NDF: 51.9/45

In: 47.238+/-63.616 $\chi^2$/NDF:45.3/42

Out: -104.688+/-59.683 $\chi^2$/NDF:74.0/50

All: -33.566+/-43.526 $\chi^2$/NDF: 122.4/93




Right In: 418.176+/-0.118 $\chi^2$/NDF: 6831147.2/19

Left Out: 255.770+/-0.045 $\chi^2$/NDF:6373829.7/24

Right Out: 448.297+/-0.115 $\chi^2$/NDF: 8581282.1/25

Left In: 276.299+/-0.049 $\chi^2$/NDF:4027371.0/22

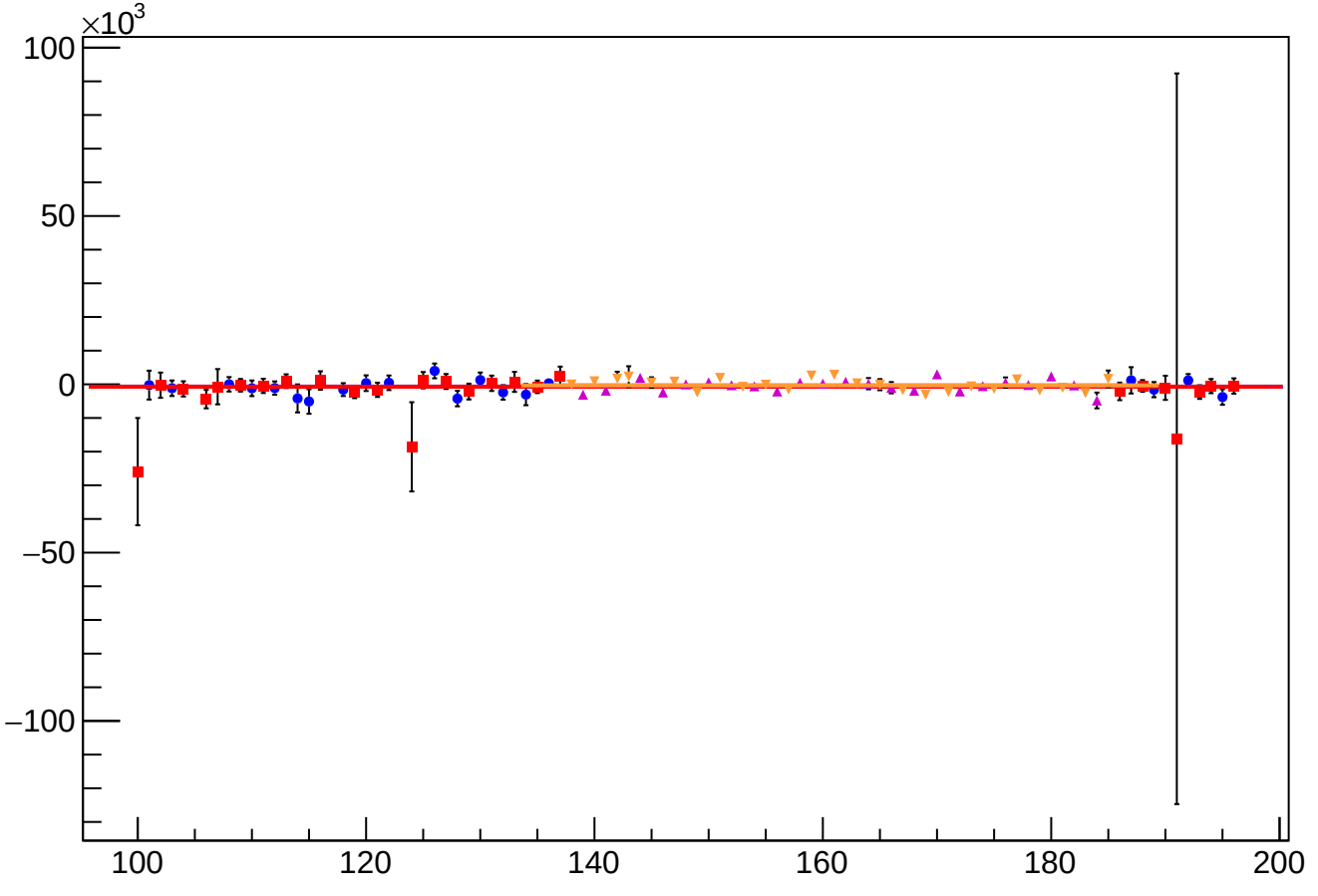
Left: 265.308+/-0.033 $\chi^2$/NDF: 10496422.7/47

Right: 433.547+/-0.082 $\chi^2$/NDF: 15445841.9/45

In: 297.018+/-0.045 $\chi^2$/NDF:12099071.2/42

Out: 281.557+/-0.042 $\chi^2$/NDF:17369329.5/50

All: 288.795+/-0.031 $\chi^2$/NDF: 29531225.1/93




Right In: -678.813+/-508.359 $\chi^2$/NDF: 15.6/19

Left Out: -319.744+/-298.271 $\chi^2$/NDF:31.6/24

Right Out: -713.995+/-480.622 $\chi^2$/NDF: 12.4/25

Left In: -356.387+/-301.902 $\chi^2$/NDF:29.7/22

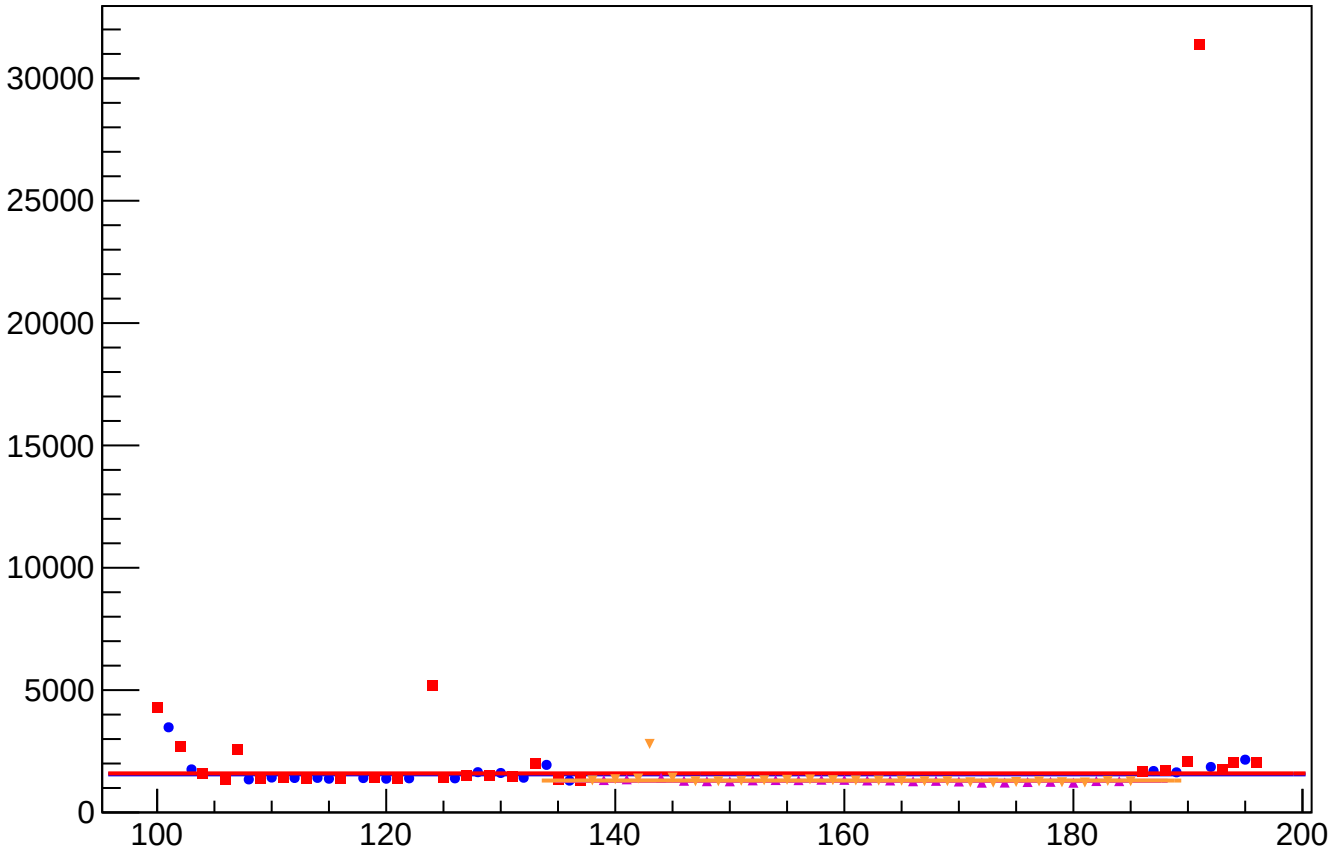
Left: -337.843+/-212.182 $\chi^2$/NDF: 61.2/47

Right: -697.390+/-349.245 $\chi^2$/NDF: 28.0/45

In: -440.454+/-259.578 $\chi^2$/NDF:45.6/42

Out: -429.365+/-253.434 $\chi^2$/NDF:44.4/50

All: -434.776+/-181.338 $\chi^2$/NDF: 90.0/93




Right In: 1556.304+/-0.359 $\chi^2$/NDF: 807782.1/19

Left Out: 1304.156+/-0.211 $\chi^2$/NDF:519609.1/24

Right Out: 1597.038+/-0.340 $\chi^2$/NDF: 1056041.4/25

Left In: 1292.123+/-0.213 $\chi^2$/NDF:48343.1/22

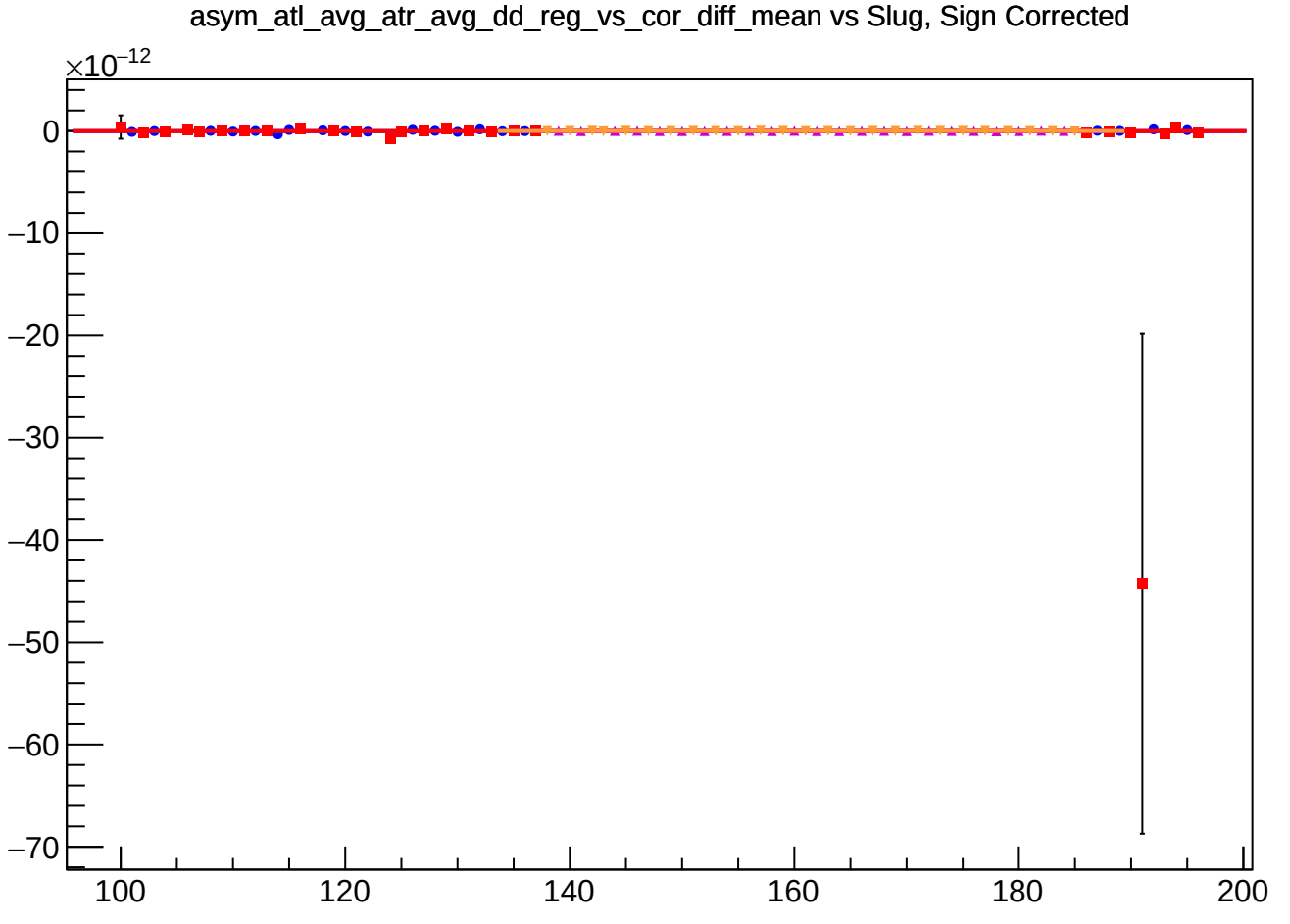
Left: 1298.212+/-0.150 $\chi^2$/NDF: 569560.1/47

Right: 1577.813+/-0.247 $\chi^2$/NDF: 1870603.9/45

In: 1361.004+/-0.184 $\chi^2$/NDF:1255422.4/42

Out: 1385.592+/-0.179 $\chi^2$/NDF:2111838.9/50

All: 1373.592+/-0.128 $\chi^2$/NDF: 3376449.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.6/22

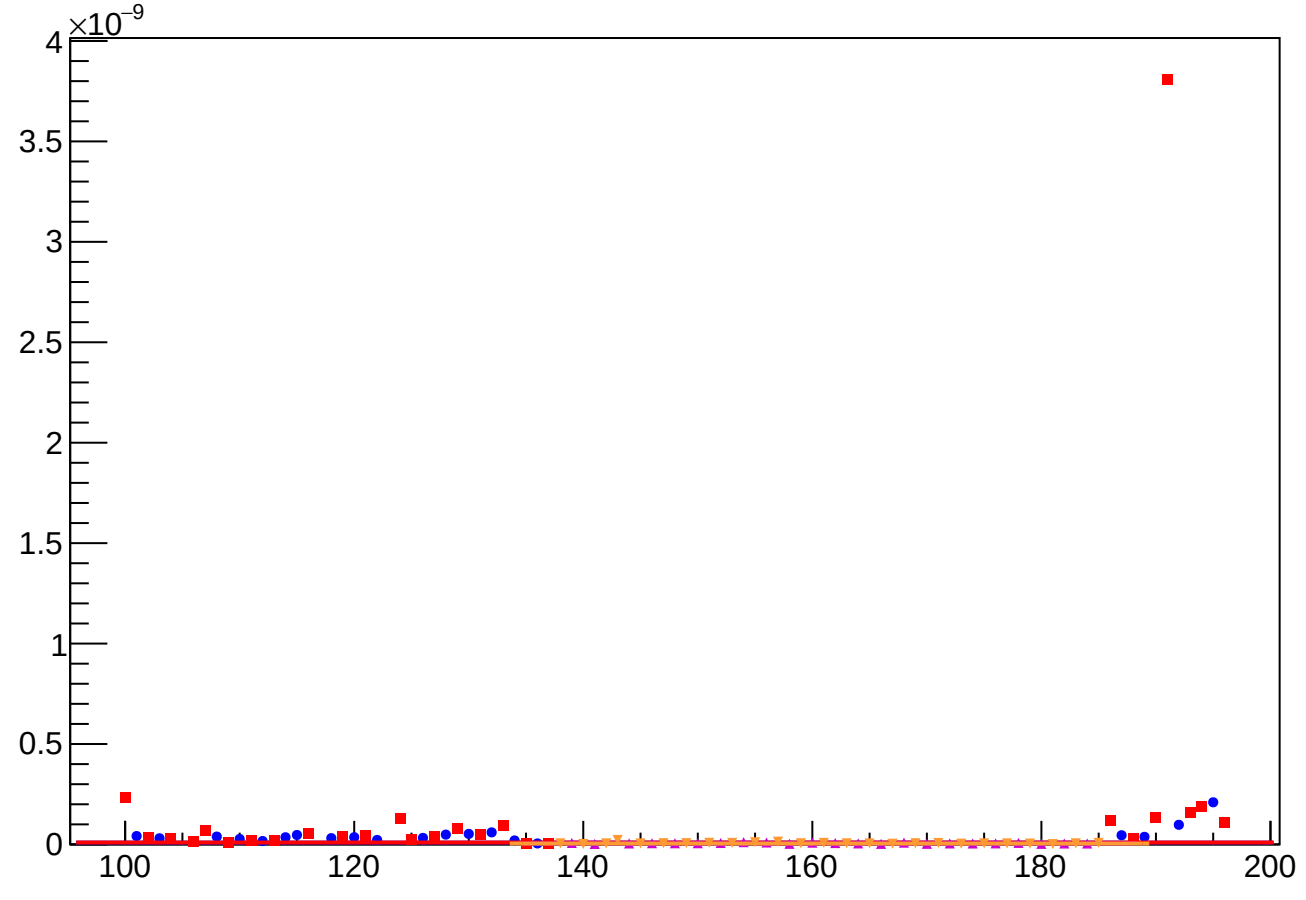
Left: -0.000+/-0.000 $\chi^2$/NDF: 54.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:42.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:59.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 102.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4556088.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2715297.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6299061.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1884808.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4620695.3/47

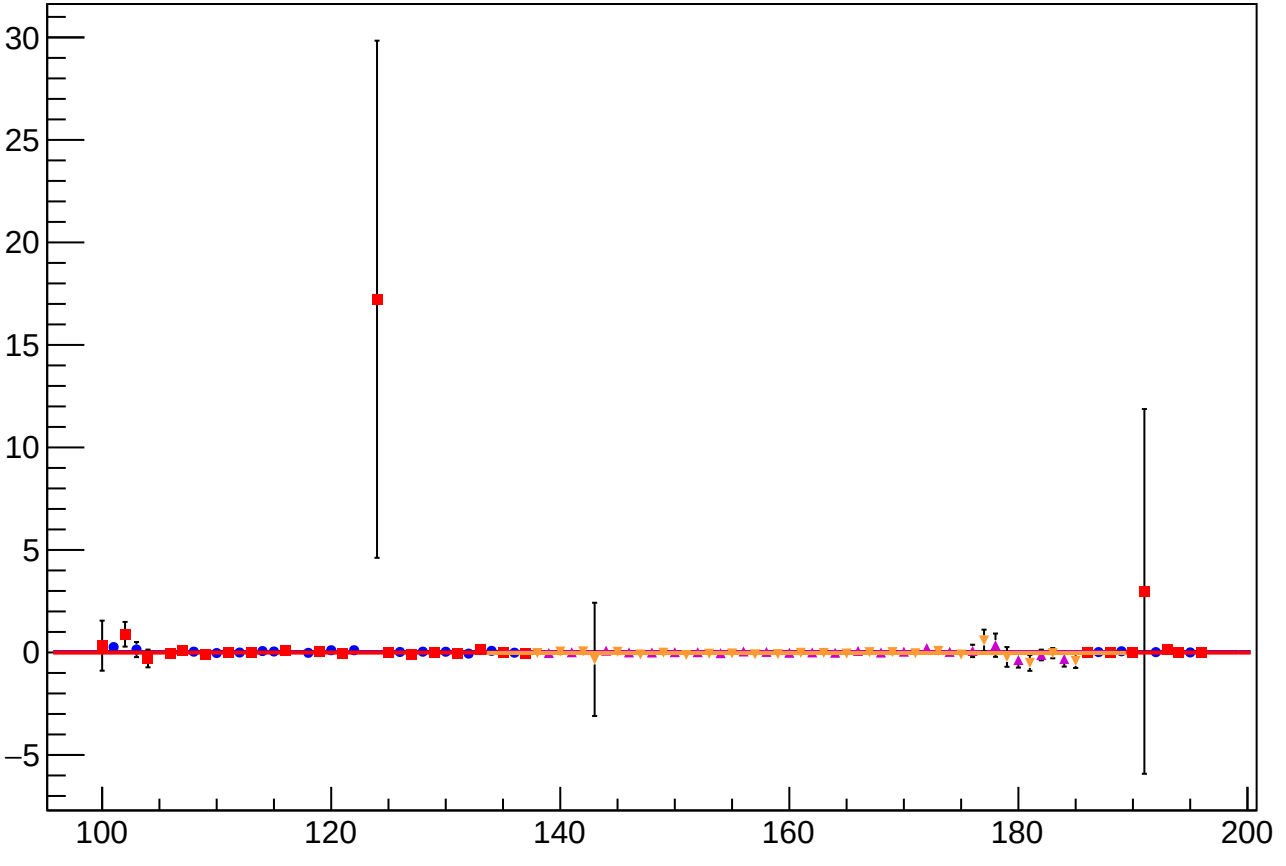
Right: 0.000+/-0.000 $\chi^2$/NDF: 10861968.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:7012564.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9767603.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16805036.5/93

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

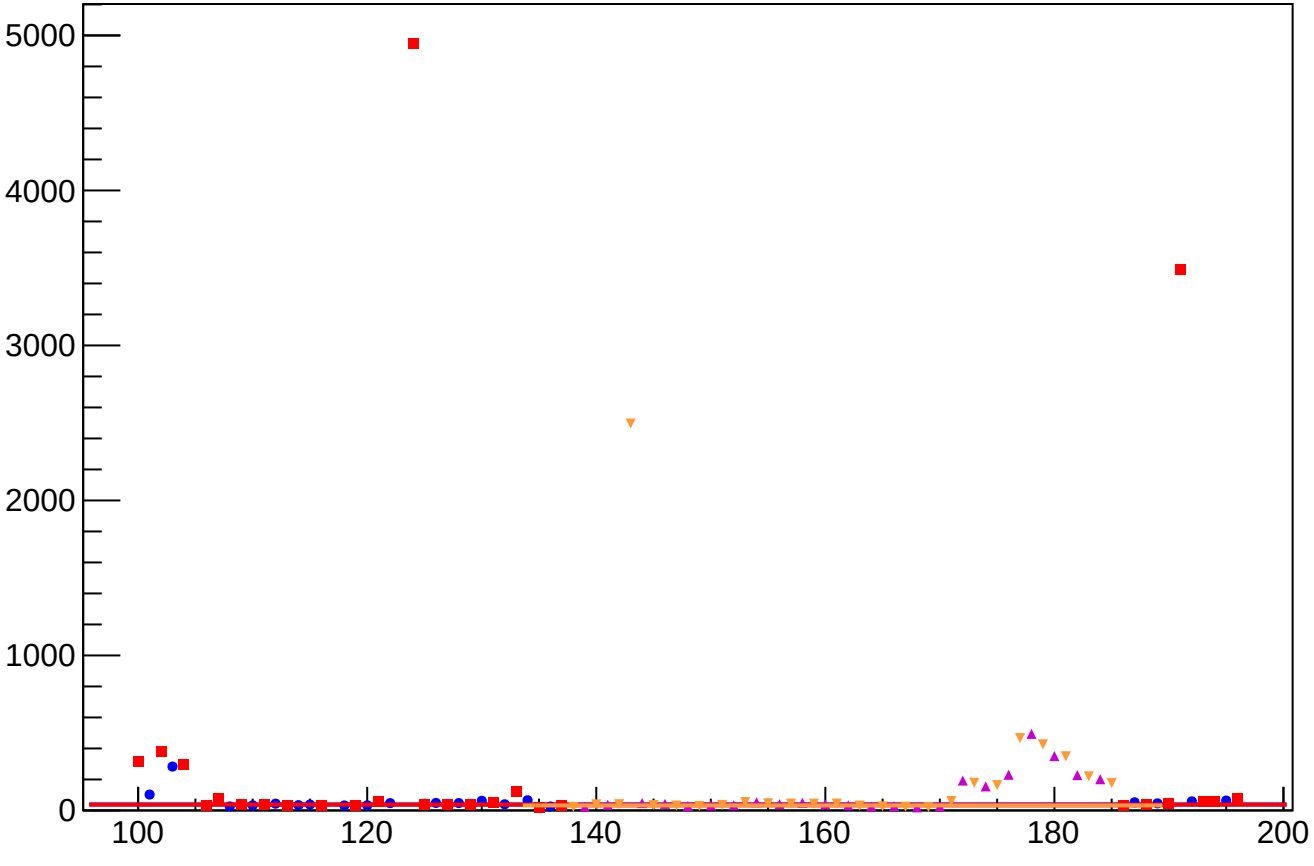
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.517+/-0.010 $\chi^2$/NDF: 2798019.4/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10871758.1/24

Right Out: 37.758+/-0.009 $\chi^2$/NDF: 4181149.5/25

Left In: 32.738+/-0.007 $\chi^2$/NDF:8963240.8/22

Left: 32.645+/-0.005 $\chi^2$/NDF: 19835386.0/47

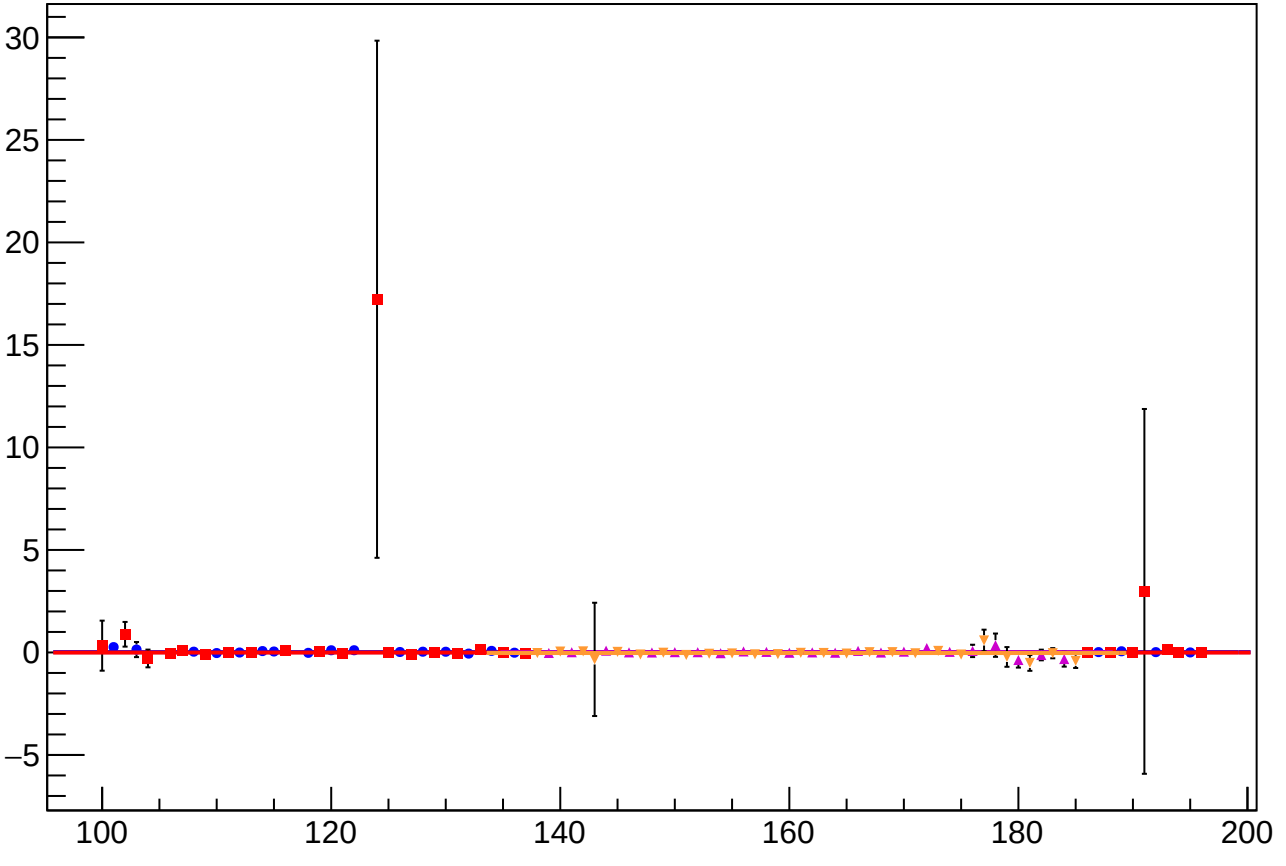
Right: 38.106+/-0.007 $\chi^2$/NDF: 6982206.4/45

In: 34.503+/-0.006 $\chi^2$/NDF:11987257.6/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258182.2/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27245895.9/93

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

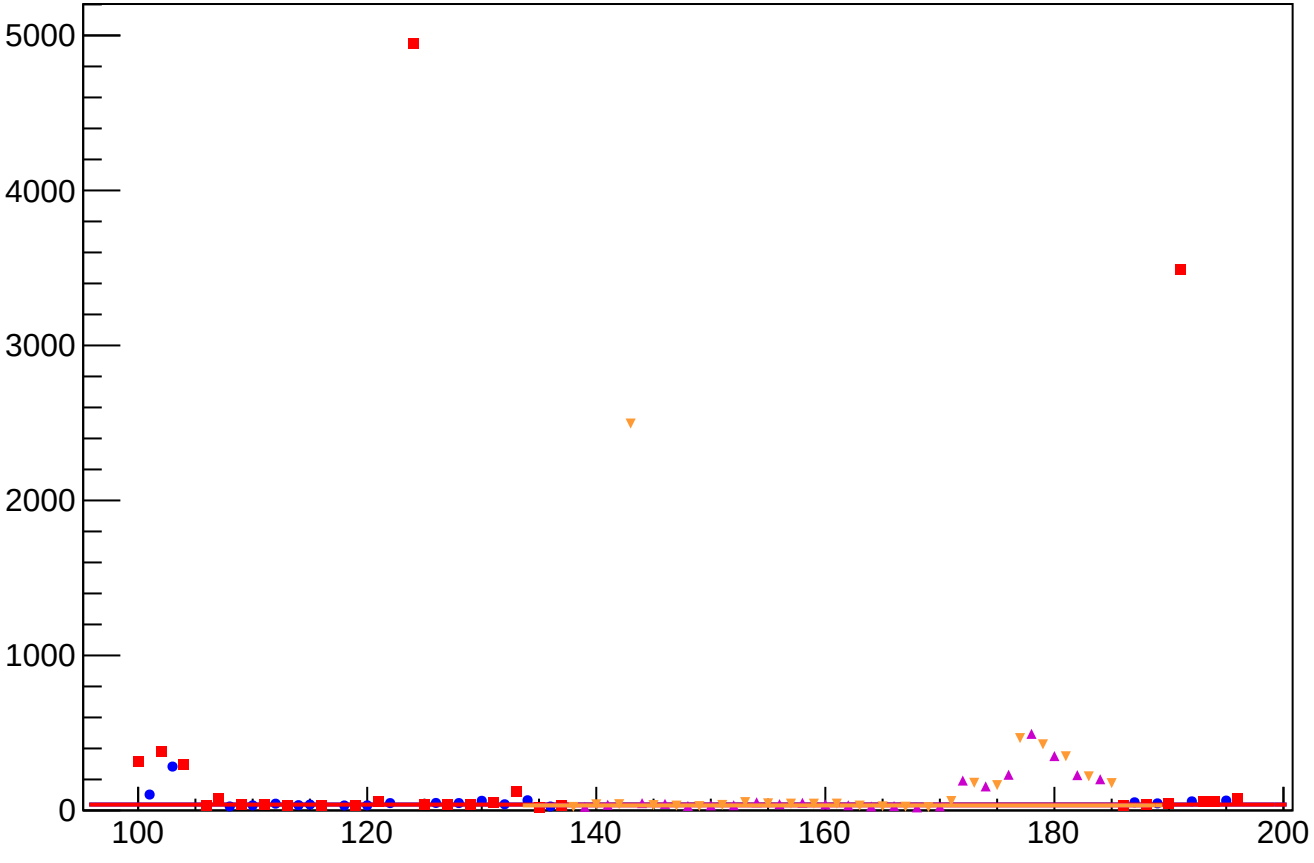
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.517+/-0.010 $\chi^2$/NDF: 2798019.4/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10871758.1/24

Right Out: 37.758+/-0.009 $\chi^2$/NDF: 4181149.5/25

Left In: 32.738+/-0.007 $\chi^2$/NDF:8963240.8/22

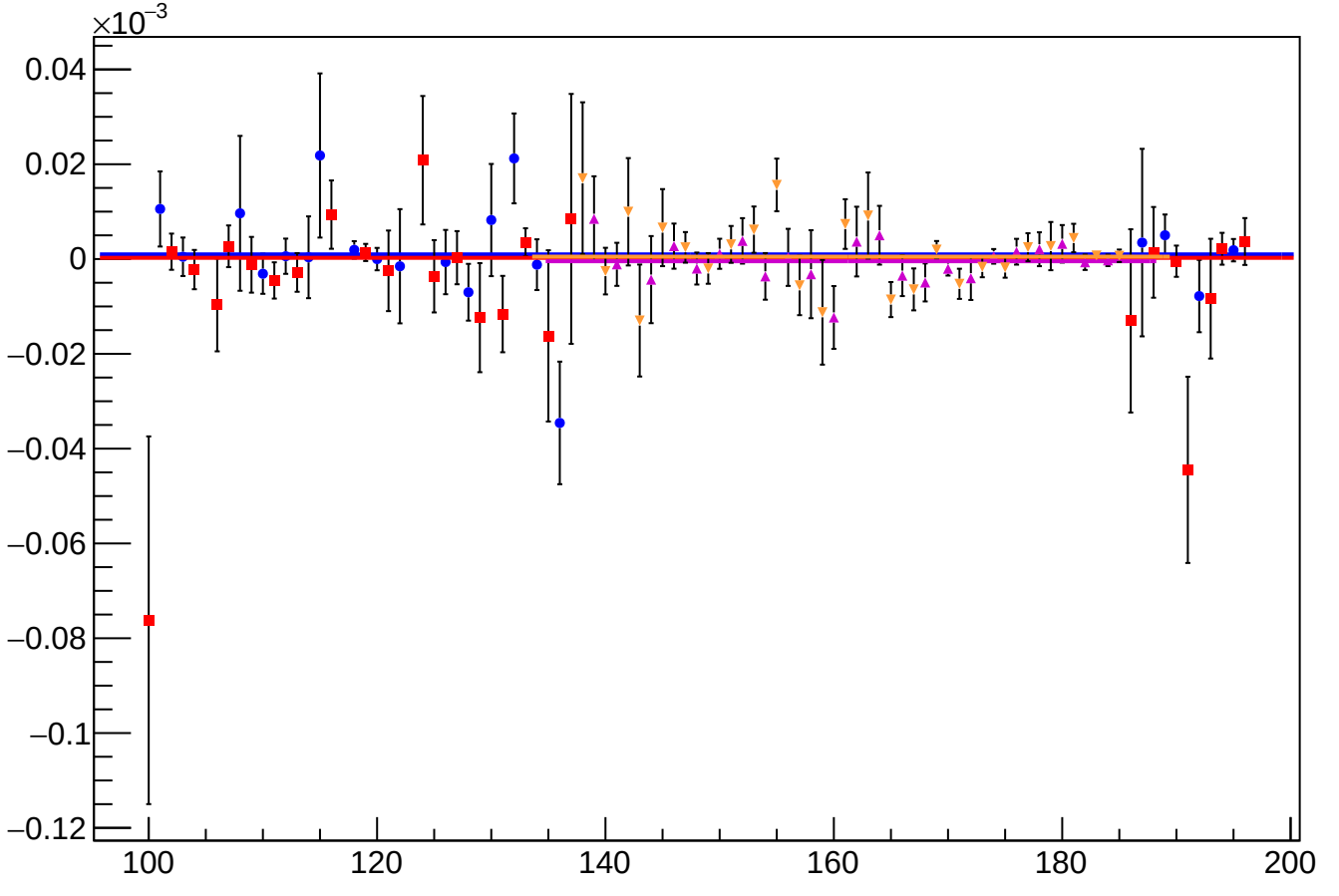
Left: 32.645+/-0.005 $\chi^2$/NDF: 19835386.0/47

Right: 38.106+/-0.007 $\chi^2$/NDF: 6982206.4/45

In: 34.503+/-0.006 $\chi^2$/NDF:11987257.6/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258182.2/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27245895.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 50.9/47

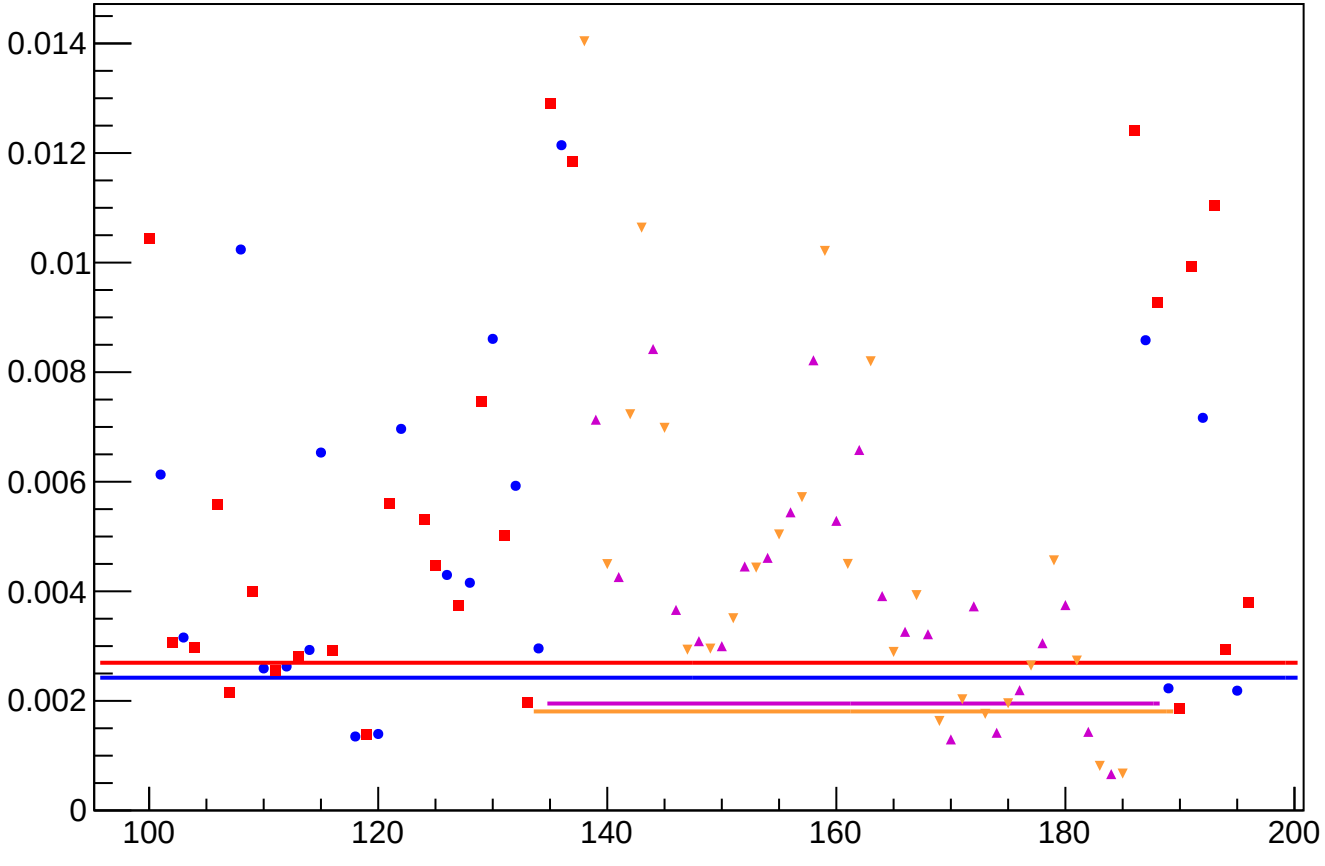
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:36.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:60.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 98.2/93

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5718326.9/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:14941257.4/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6286975.1/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:11478607.0/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 26484379.9/47

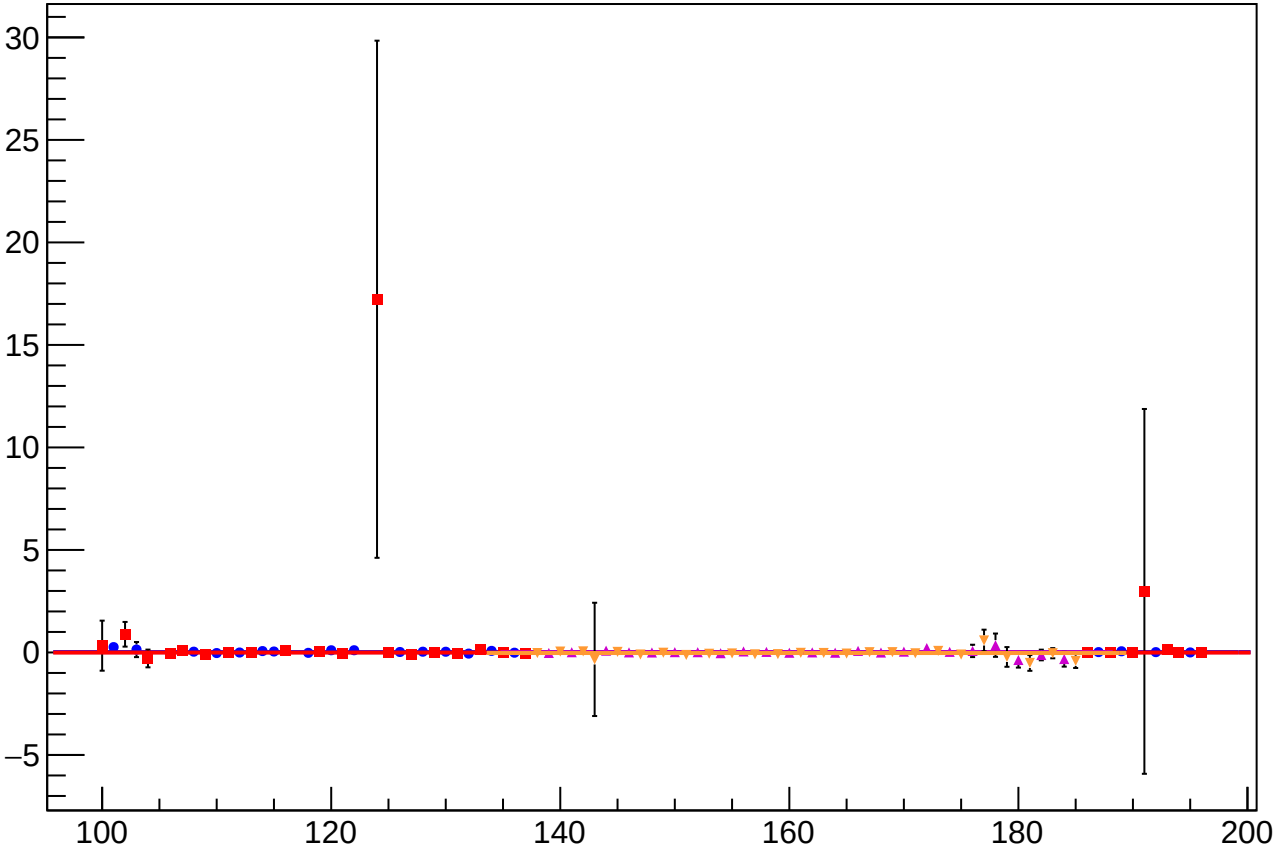
Right: 0.003+/-0.000 $\chi^2$/NDF: 12087012.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:17543392.8/42

Out: 0.002+/-0.000 $\chi^2$/NDF:22559214.0/50

All: 0.002+/-0.000 $\chi^2$/NDF: 40112091.0/93

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

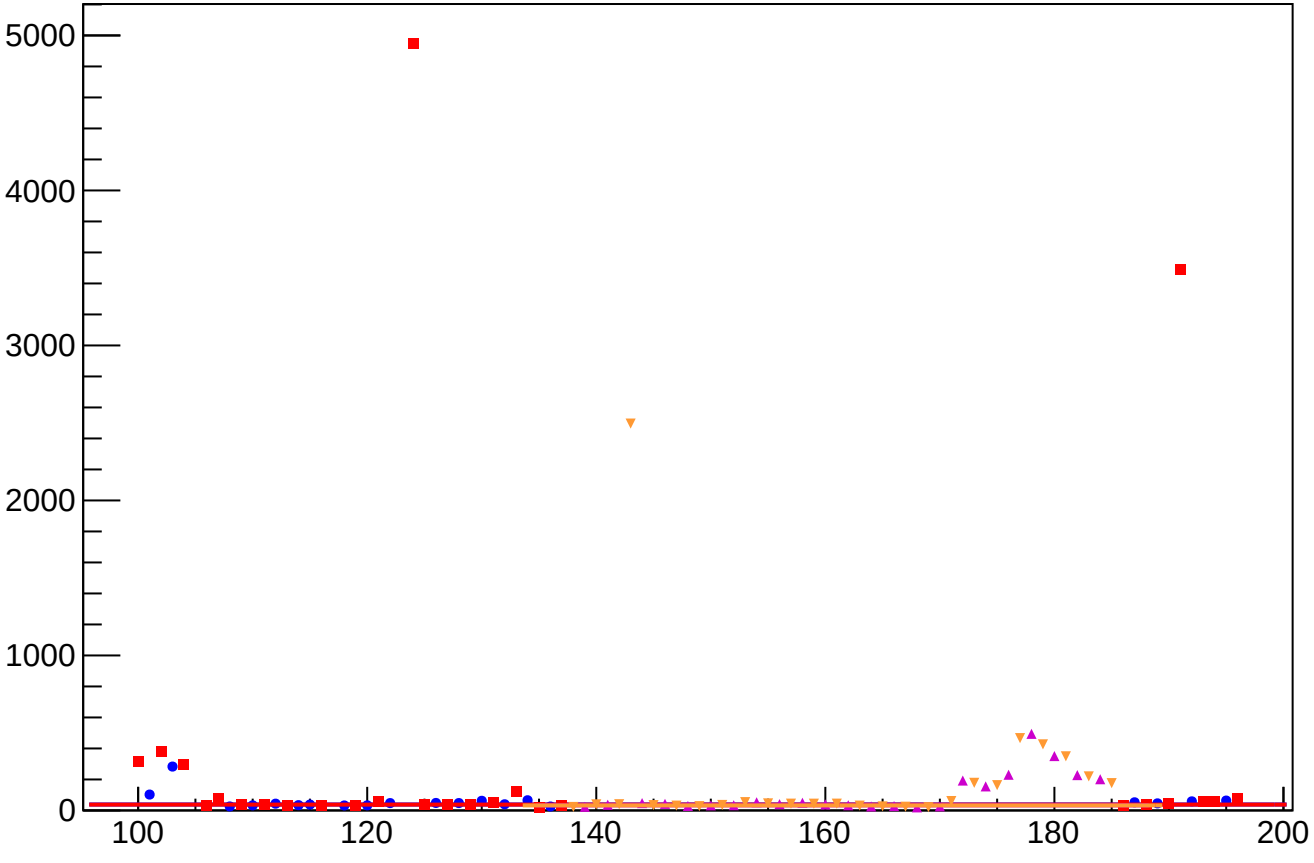
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.518+/-0.010 $\chi^2$/NDF: 2797609.2/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10872015.8/24

Right Out: 37.759+/-0.009 $\chi^2$/NDF: 4180901.9/25

Left In: 32.737+/-0.007 $\chi^2$/NDF:8963873.9/22

Left: 32.644+/-0.005 $\chi^2$/NDF: 19836272.3/47

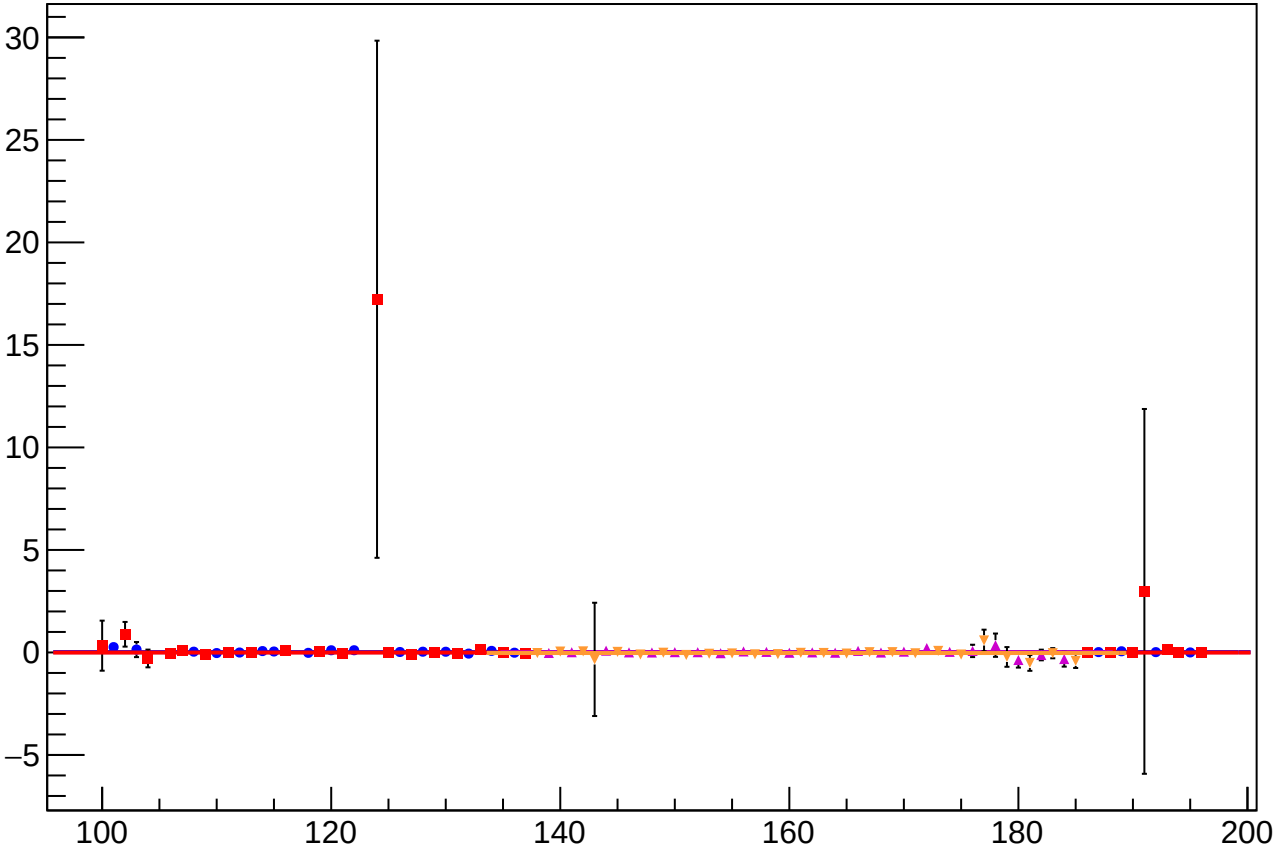
Right: 38.107+/-0.007 $\chi^2$/NDF: 6981557.6/45

In: 34.502+/-0.006 $\chi^2$/NDF:11987685.7/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258226.5/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27246365.4/93

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

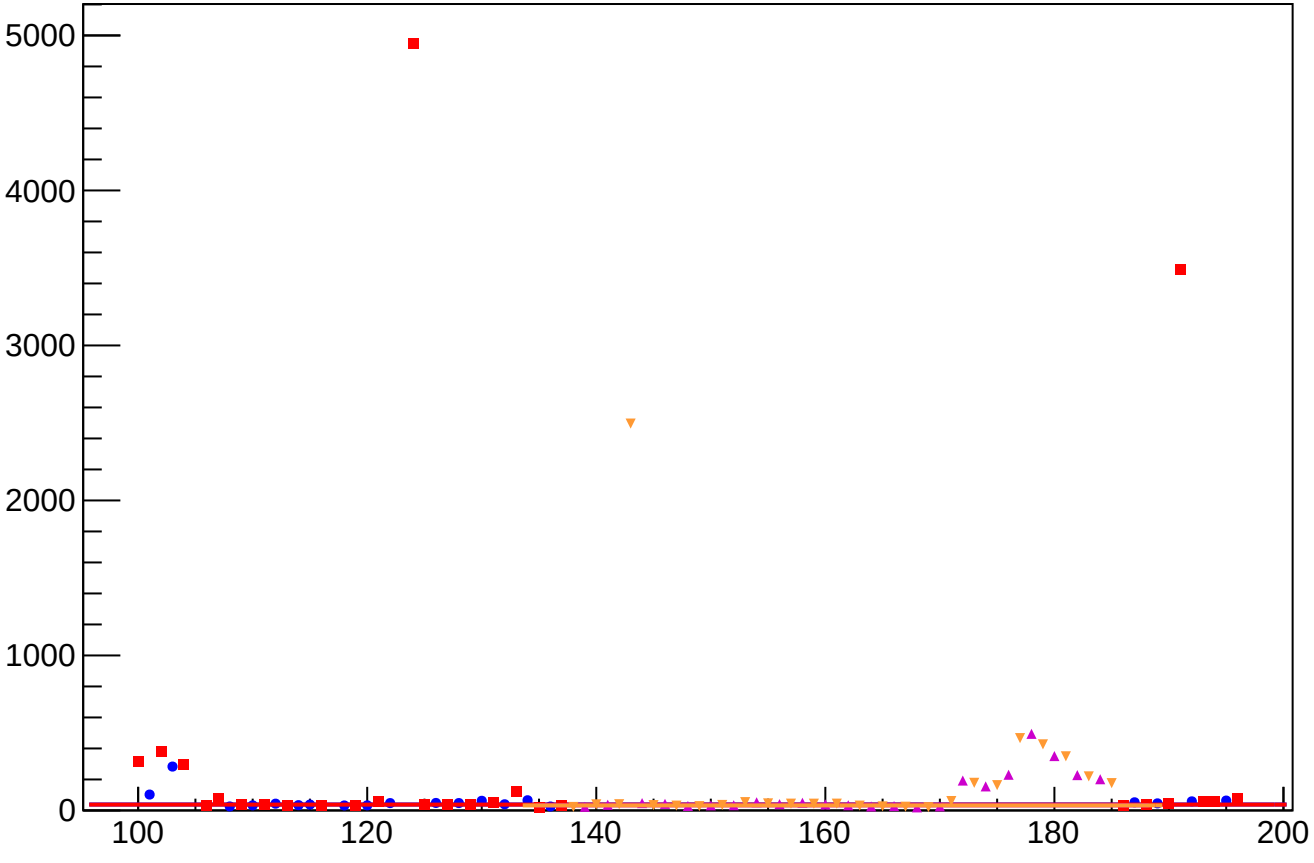
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.518+/-0.010 $\chi^2$/NDF: 2797609.2/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10872015.8/24

Right Out: 37.759+/-0.009 $\chi^2$/NDF: 4180901.9/25

Left In: 32.737+/-0.007 $\chi^2$/NDF:8963873.9/22

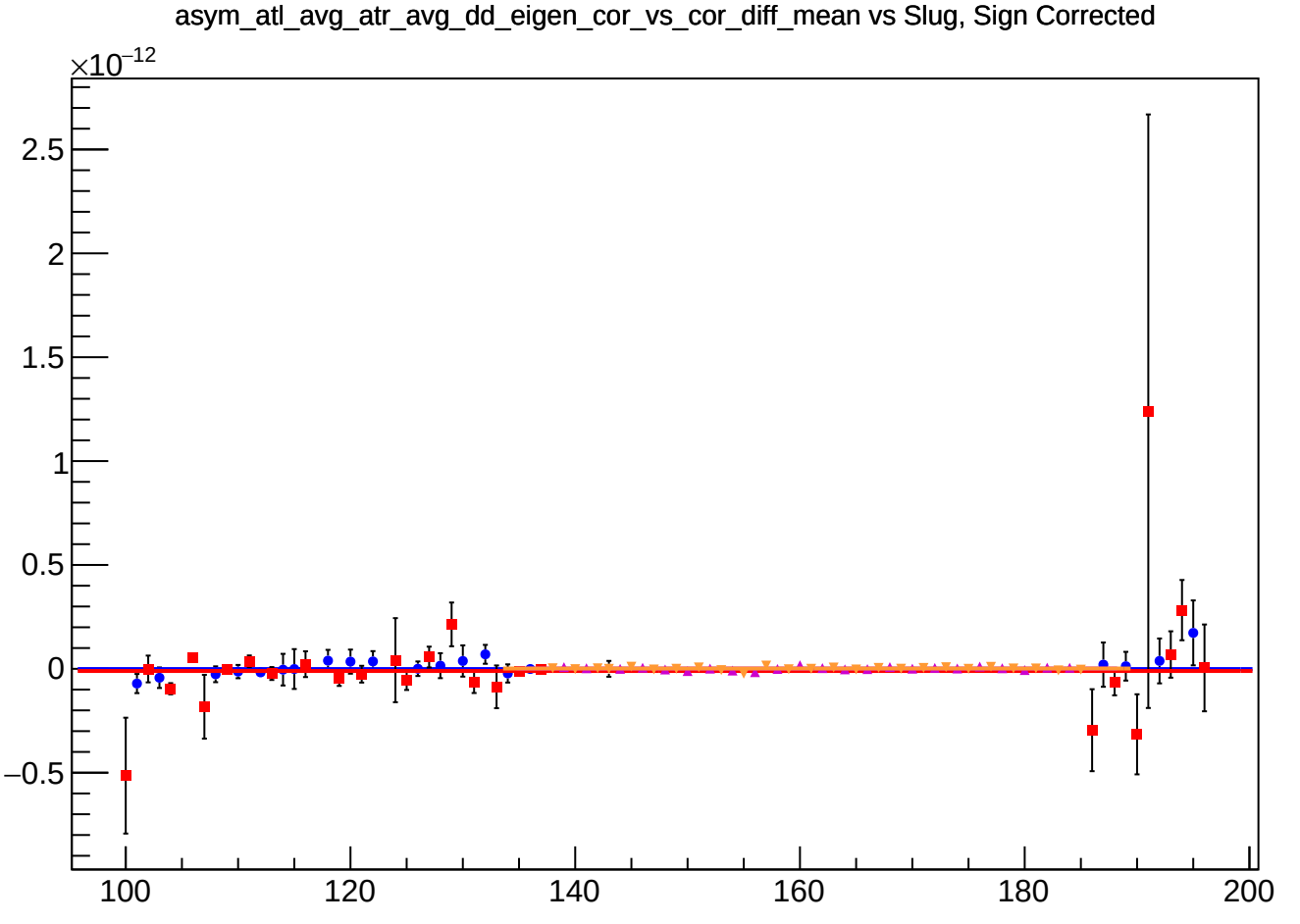
Left: 32.644+/-0.005 $\chi^2$/NDF: 19836272.3/47

Right: 38.107+/-0.007 $\chi^2$/NDF: 6981557.6/45

In: 34.502+/-0.006 $\chi^2$/NDF:11987685.7/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258226.5/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27246365.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 50.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 46.8/47

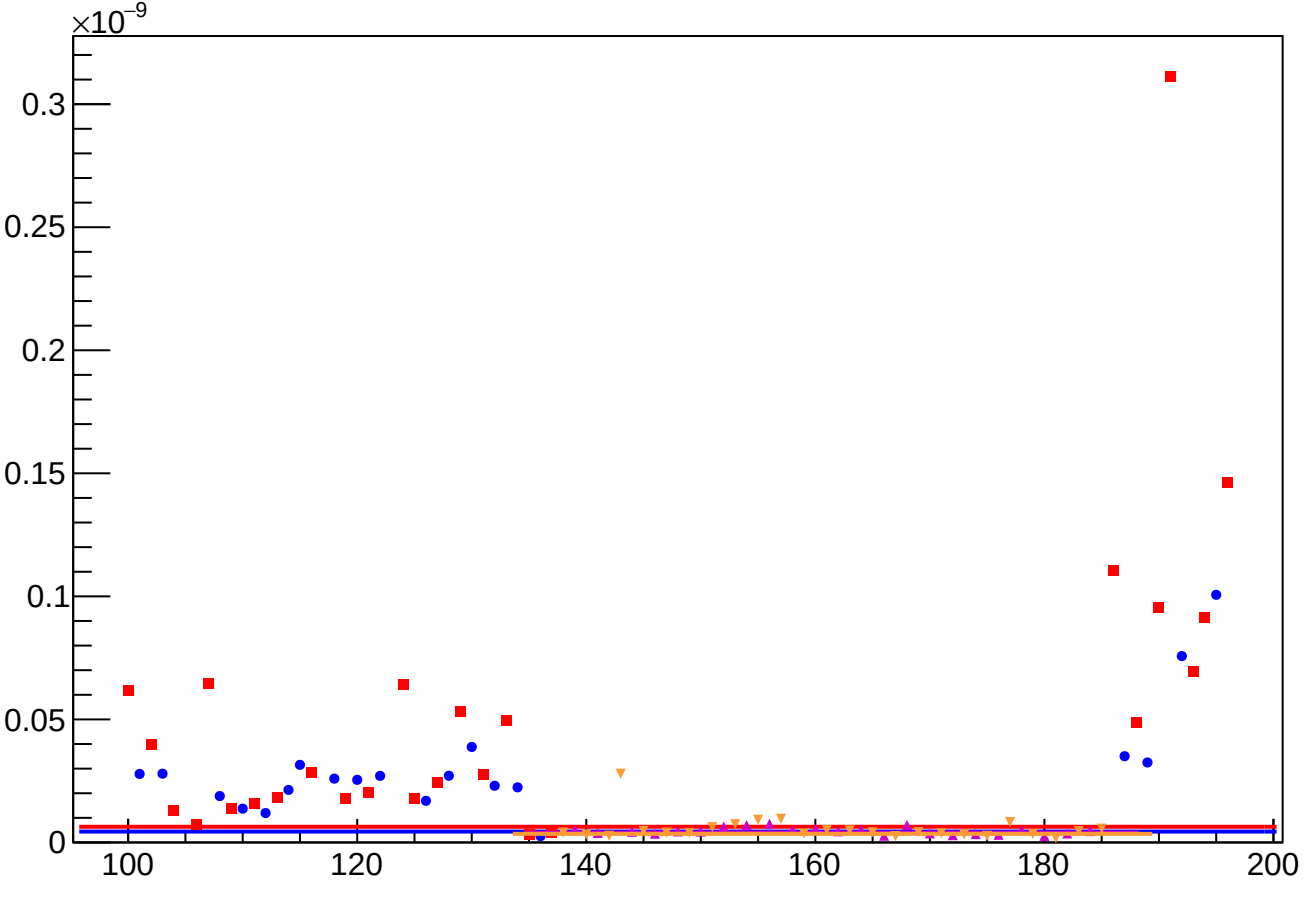
Right: -0.000+/-0.000 $\chi^2$/NDF: 63.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:39.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:76.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 115.5/93

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7214013.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4688121.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9042089.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2073078.0/22

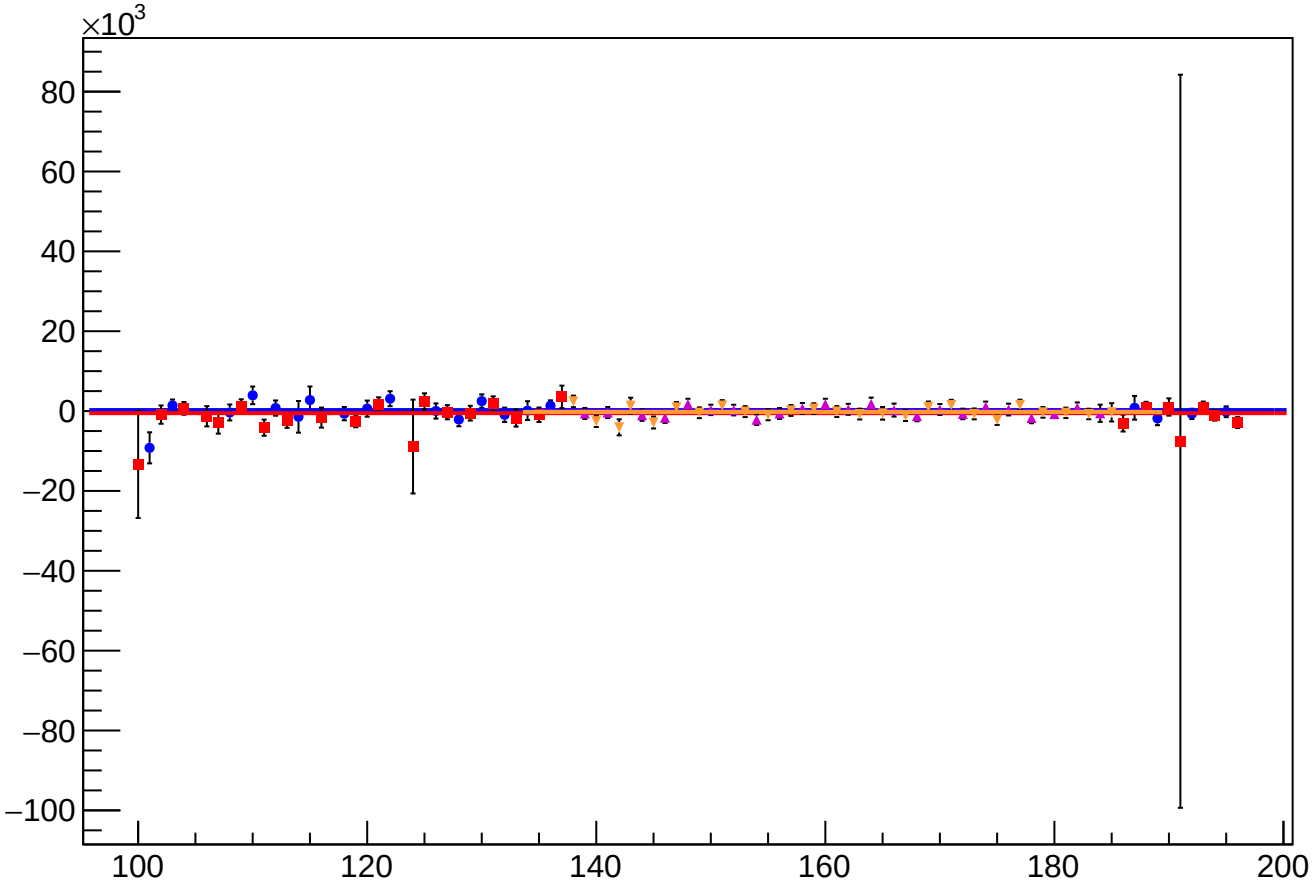
Left: 0.000+/-0.000 $\chi^2$/NDF: 6948707.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 16518647.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:9318177.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:14628374.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 24056775.6/93




Right In: 249.022+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.721+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -523.904+/-381.285 $\chi^2$/NDF: 24.0/25

Left In: -92.402+/-288.217 $\chi^2$/NDF:14.7/22

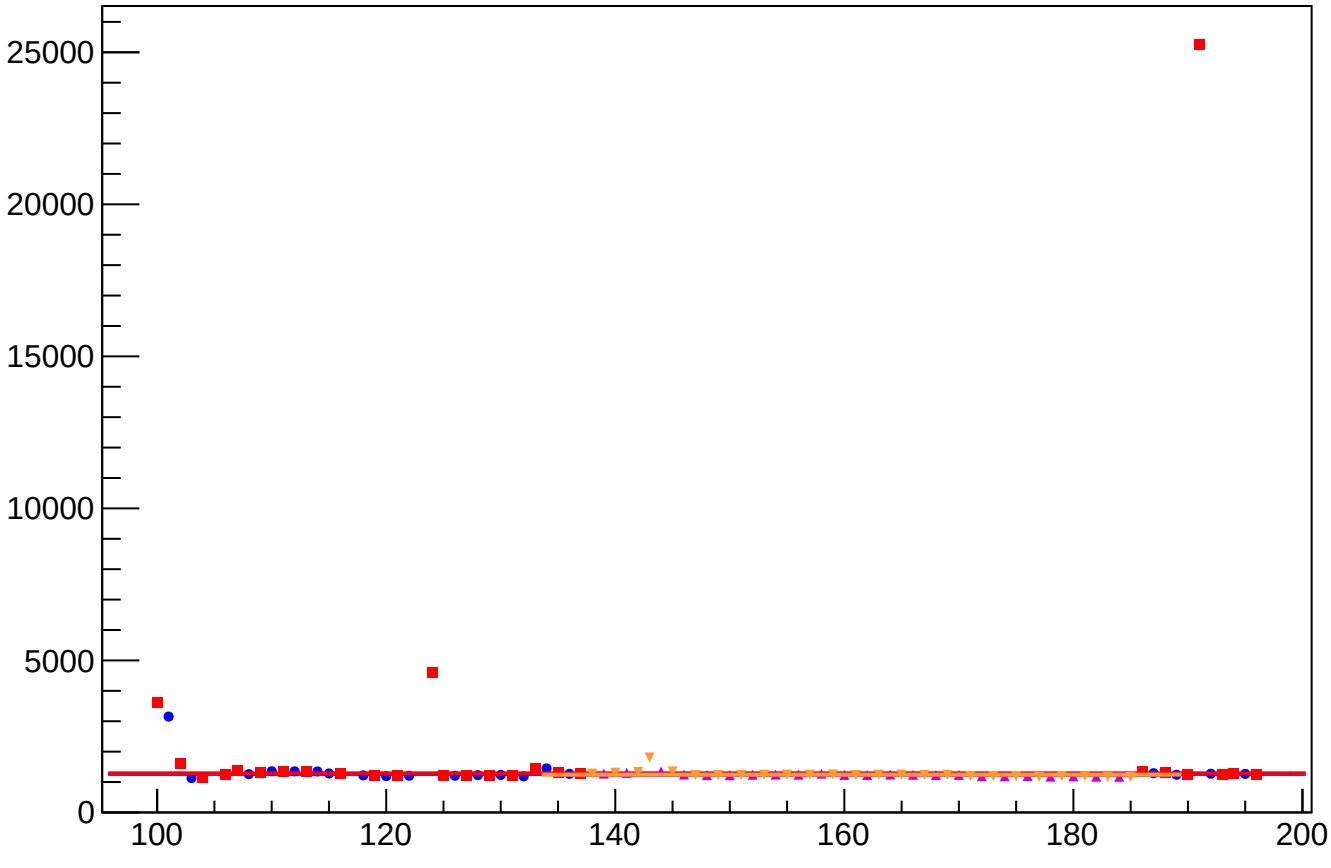
Left: -157.721+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -167.032+/-279.741 $\chi^2$/NDF: 45.6/45

In: 19.897+/-236.107 $\chi^2$/NDF:34.9/42

Out: -328.442+/-227.273 $\chi^2$/NDF:48.3/50

All: -160.911+/-163.740 $\chi^2$/NDF: 84.3/93




Right In: 1270.810+/-0.291 $\chi^2$/NDF: 520105.1/19

Left Out: 1242.825+/-0.200 $\chi^2$/NDF:203299.1/24

Right Out: 1283.835+/-0.270 $\chi^2$/NDF: 468310.2/25

Left In: 1233.752+/-0.204 $\chi^2$/NDF:39281.8/22

Left: 1238.371+/-0.143 $\chi^2$/NDF: 243589.7/47

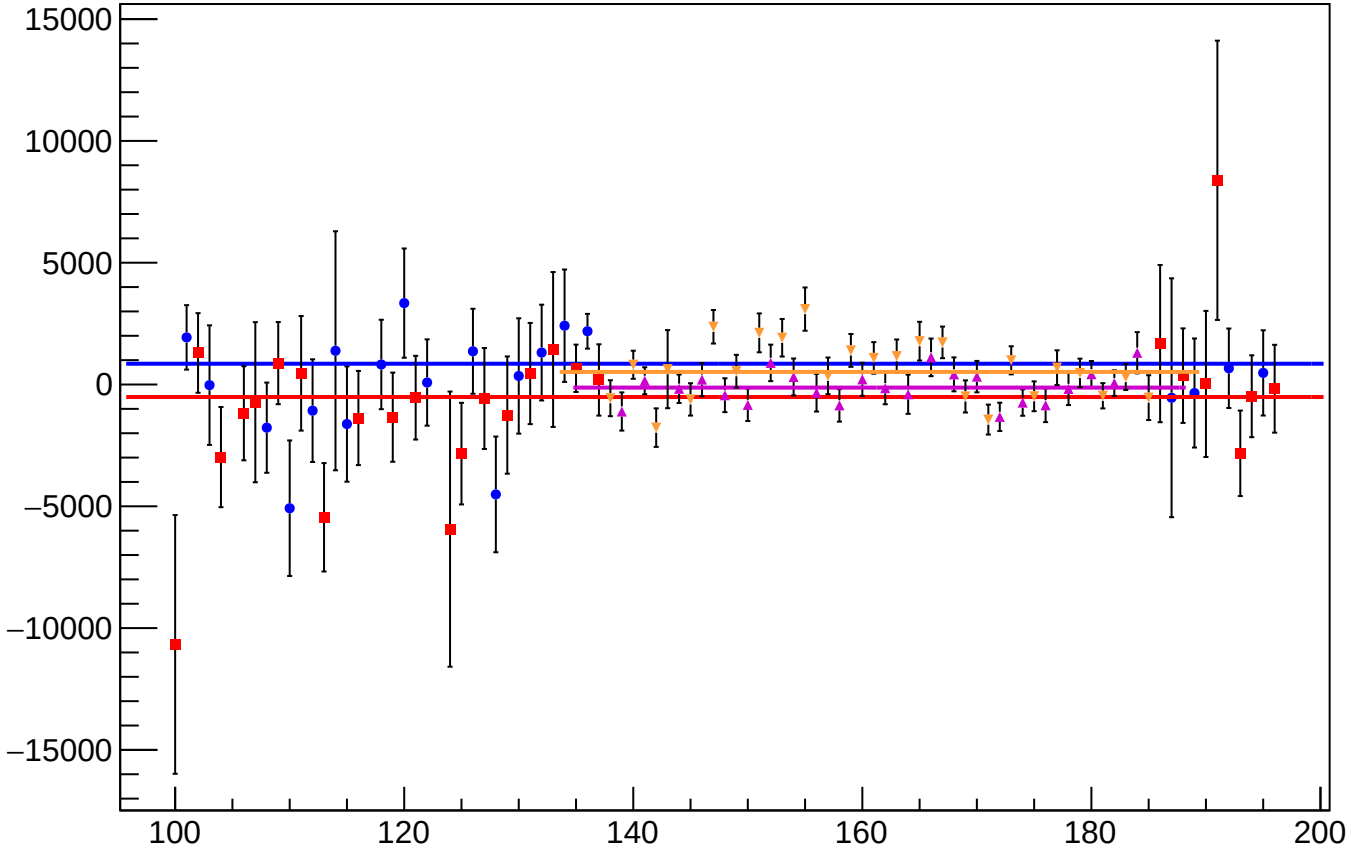
Right: 1277.821+/-0.198 $\chi^2$/NDF: 989493.0/45

In: 1245.941+/-0.167 $\chi^2$/NDF:570261.8/42

Out: 1257.396+/-0.161 $\chi^2$/NDF:686526.0/50

All: 1251.887+/-0.116 $\chi^2$/NDF: 1259231.3/93

asym_atl_dd_atr_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 852.797+/-393.502 $\chi^2$/NDF: 20.4/19

Left Out: 516.792+/-135.746 $\chi^2$/NDF:67.0/24

Right Out: -513.469+/-387.589 $\chi^2$/NDF: 22.0/25

Left In: -126.569+/-137.266 $\chi^2$/NDF:21.6/22

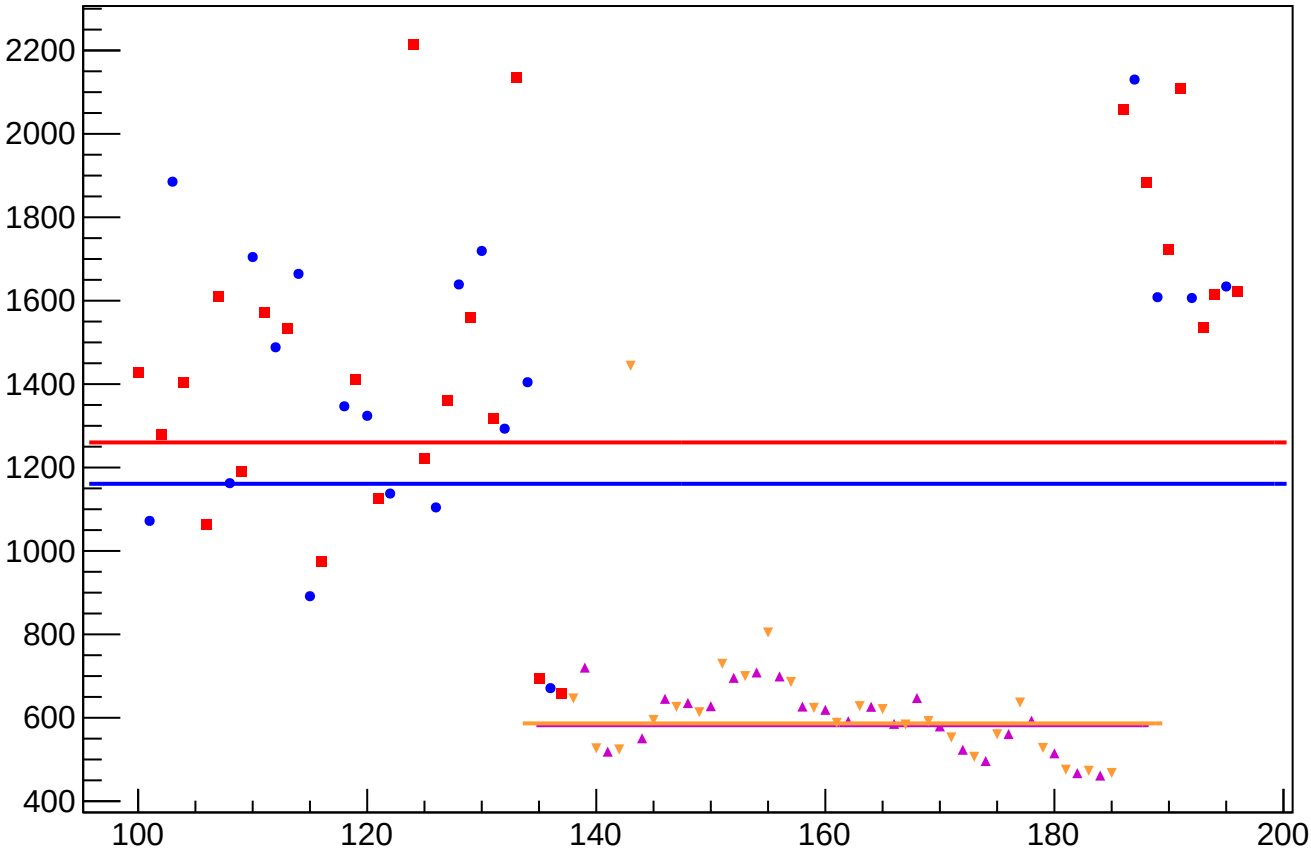
Left: 198.694+/-96.520 $\chi^2$/NDF: 99.7/47

Right: 159.321+/-276.134 $\chi^2$/NDF: 48.5/45

In: -20.324+/-129.607 $\chi^2$/NDF:47.5/42

Out: 404.225+/-128.116 $\chi^2$/NDF:95.4/50

All: 194.407+/-91.114 $\chi^2$/NDF: 148.2/93




Right In: 1160.996+/-0.278 $\chi^2$/NDF: 2009568.0/19

Left Out: 586.557+/-0.096 $\chi^2$/NDF:1202915.7/24

Right Out: 1260.190+/-0.274 $\chi^2$/NDF: 2094204.0/25

Left In: 582.190+/-0.097 $\chi^2$/NDF:559261.3/22

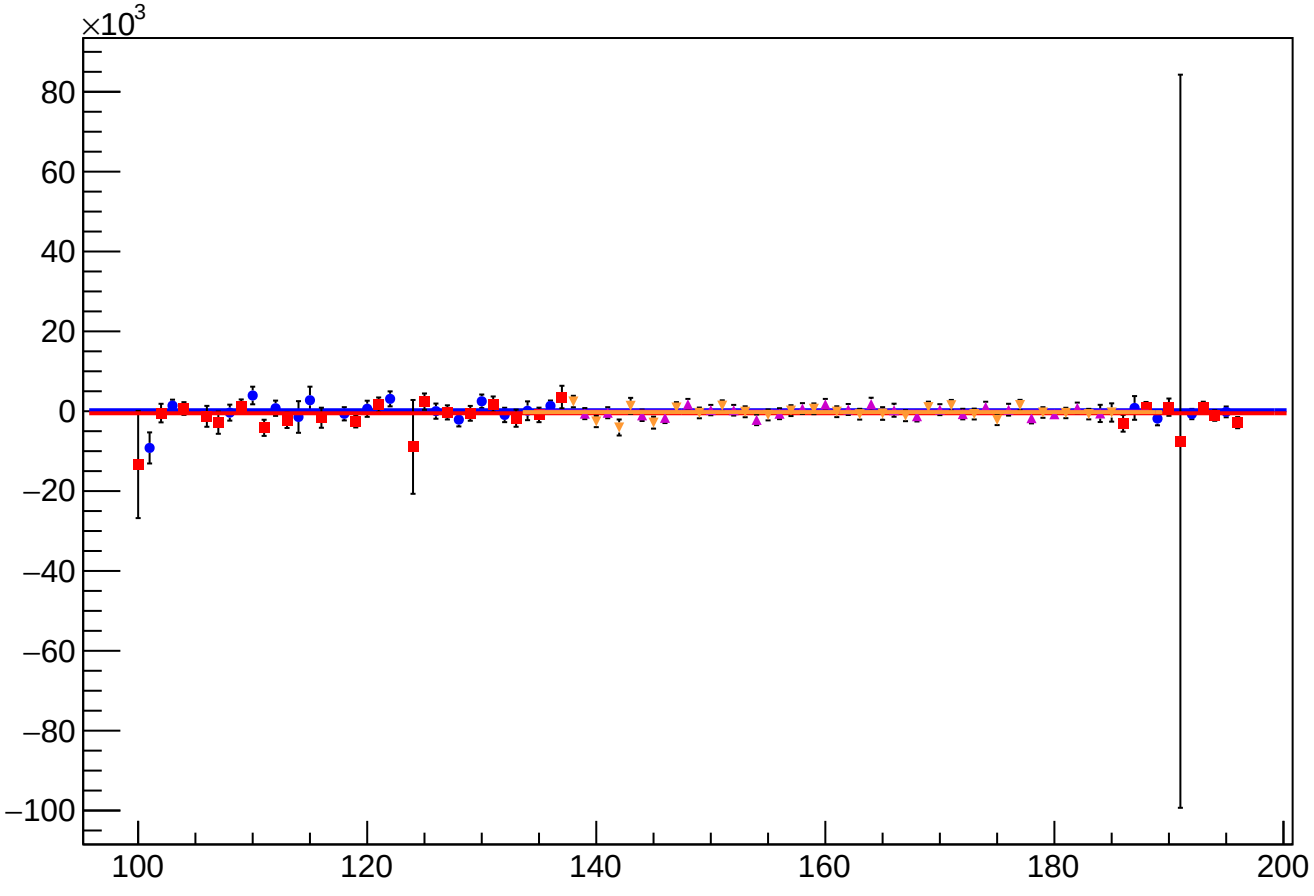
Left: 584.398+/-0.068 $\chi^2$/NDF: 1763200.3/47

Right: 1211.344+/-0.195 $\chi^2$/NDF: 4168277.8/45

In: 644.981+/-0.092 $\chi^2$/NDF:6426560.3/42

Out: 660.159+/-0.091 $\chi^2$/NDF:8678387.7/50

All: 652.658+/-0.064 $\chi^2$/NDF: 15118820.1/93




Right In: 249.255+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.755+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -511.047+/-381.693 $\chi^2$/NDF: 23.9/25

Left In: -92.472+/-288.217 $\chi^2$/NDF:14.7/22

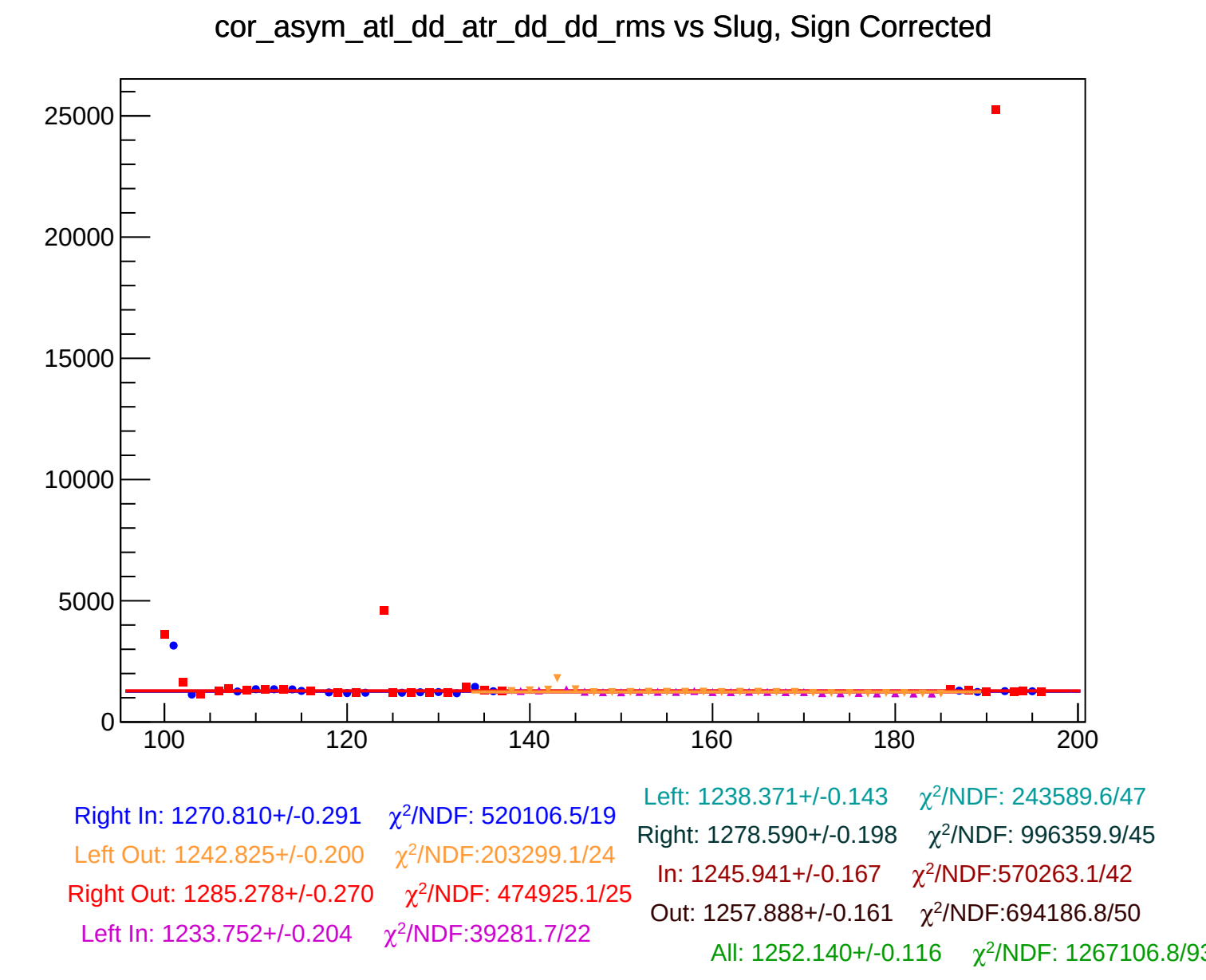
Left: -157.773+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -159.600+/-279.902 $\chi^2$/NDF: 45.5/45

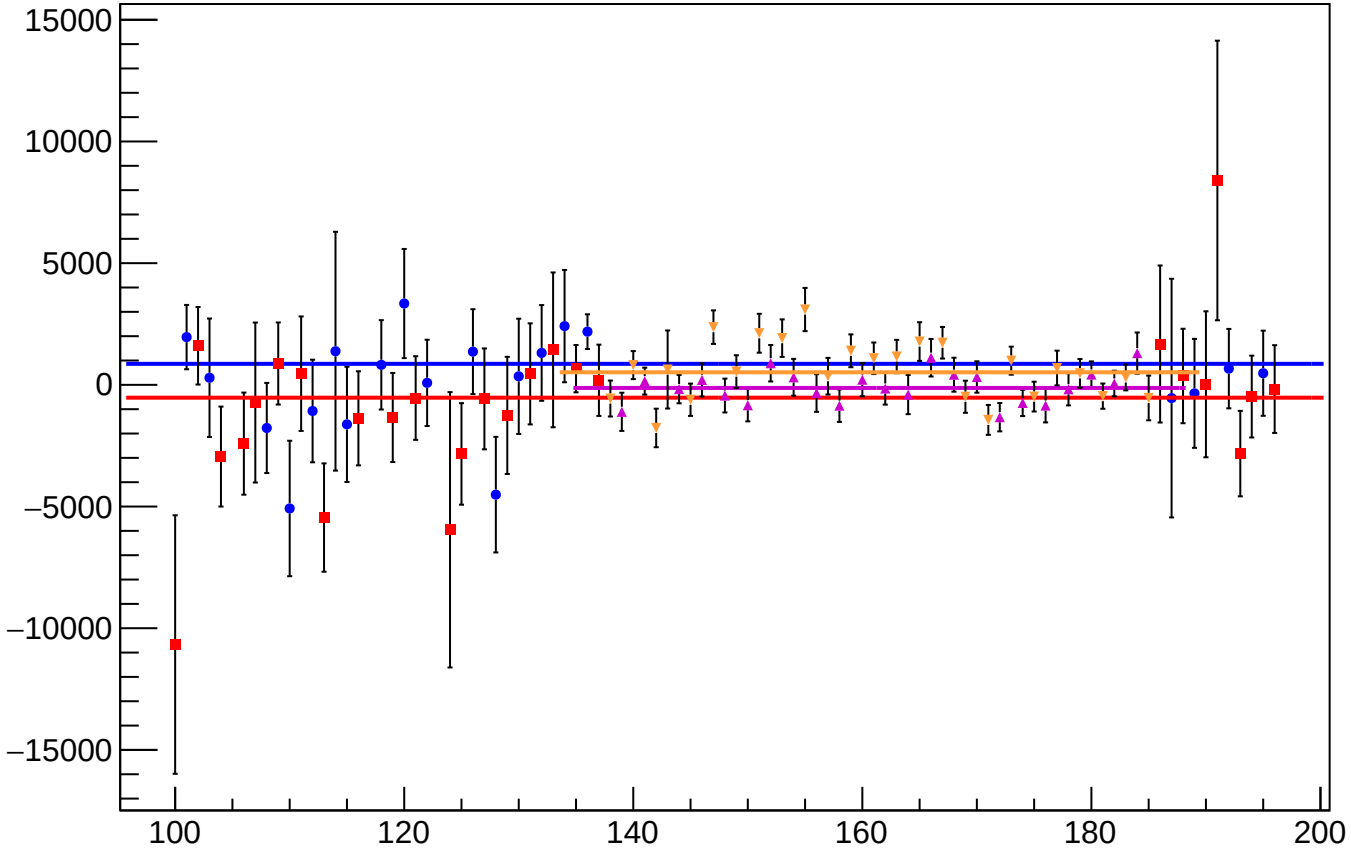
In: 19.927+/-236.107 $\chi^2$/NDF:34.9/42

Out: -323.754+/-227.360 $\chi^2$/NDF:48.2/50

All: -158.398+/-163.773 $\chi^2$/NDF: 84.2/93


cor_asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
100
120
140
160
180
200
Right In: 1270.810+/-0.291 χ²/NDF: 520106.5/19
Left Out: 1242.825+/-0.200 χ²/NDF:203299.1/24
Right Out: 1285.278+/-0.270 χ²/NDF: 474925.1/25
Left In: 1233.752+/-0.204 χ²/NDF:39281.7/22
Left: 1238.371+/-0.143 χ²/NDF: 243589.6/47
Right: 1278.590+/-0.198 χ²/NDF: 996359.9/45
In: 1245.941+/-0.167 χ²/NDF:570263.1/42
Out: 1257.888+/-0.161 χ²/NDF:694186.8/50
All: 1252.140+/-0.116 χ²/NDF: 1267106.8/93

asym_atl_dd_atr_dd_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 863.441+/-393.363 $\chi^2$/NDF: 20.3/19

Left Out: 516.811+/-135.747 $\chi^2$/NDF:67.0/24

Right Out: -526.910+/-388.175 $\chi^2$/NDF: 23.3/25

Left In: -126.549+/-137.266 $\chi^2$/NDF:21.6/22

Left: 198.710+/-96.520 $\chi^2$/NDF: 99.7/47

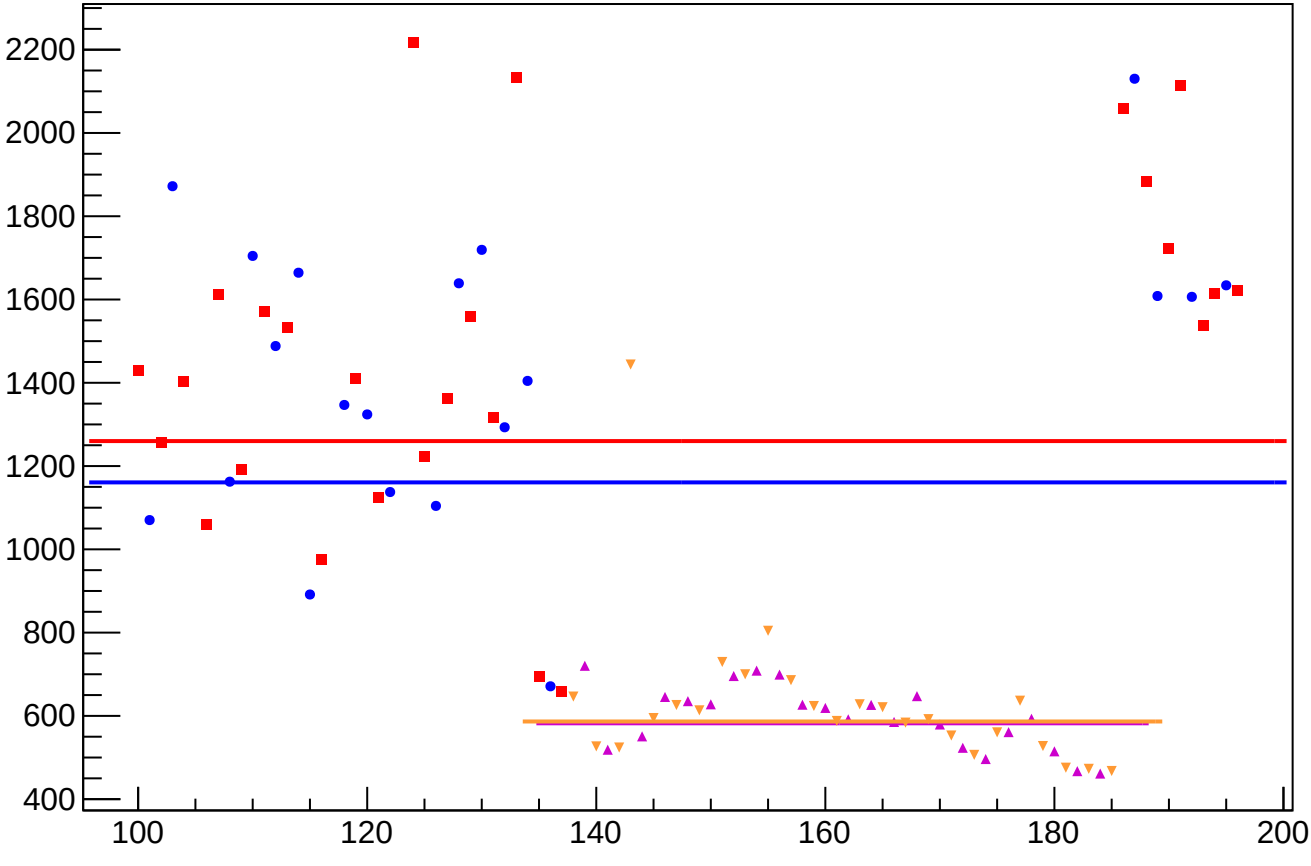
Right: 159.038+/-276.297 $\chi^2$/NDF: 49.9/45

In: -19.085+/-129.602 $\chi^2$/NDF:47.5/42

Out: 403.079+/-128.138 $\chi^2$/NDF:96.7/50

All: 194.395+/-91.120 $\chi^2$/NDF: 149.6/93

asym_atl_dd_atr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 1160.778+/-0.278 $\chi^2$/NDF: 2006451.1/19

Left Out: 586.562+/-0.096 $\chi^2$/NDF:1202822.0/24

Right Out: 1260.008+/-0.274 $\chi^2$/NDF: 2091705.9/25

Left In: 582.189+/-0.097 $\chi^2$/NDF:559258.0/22

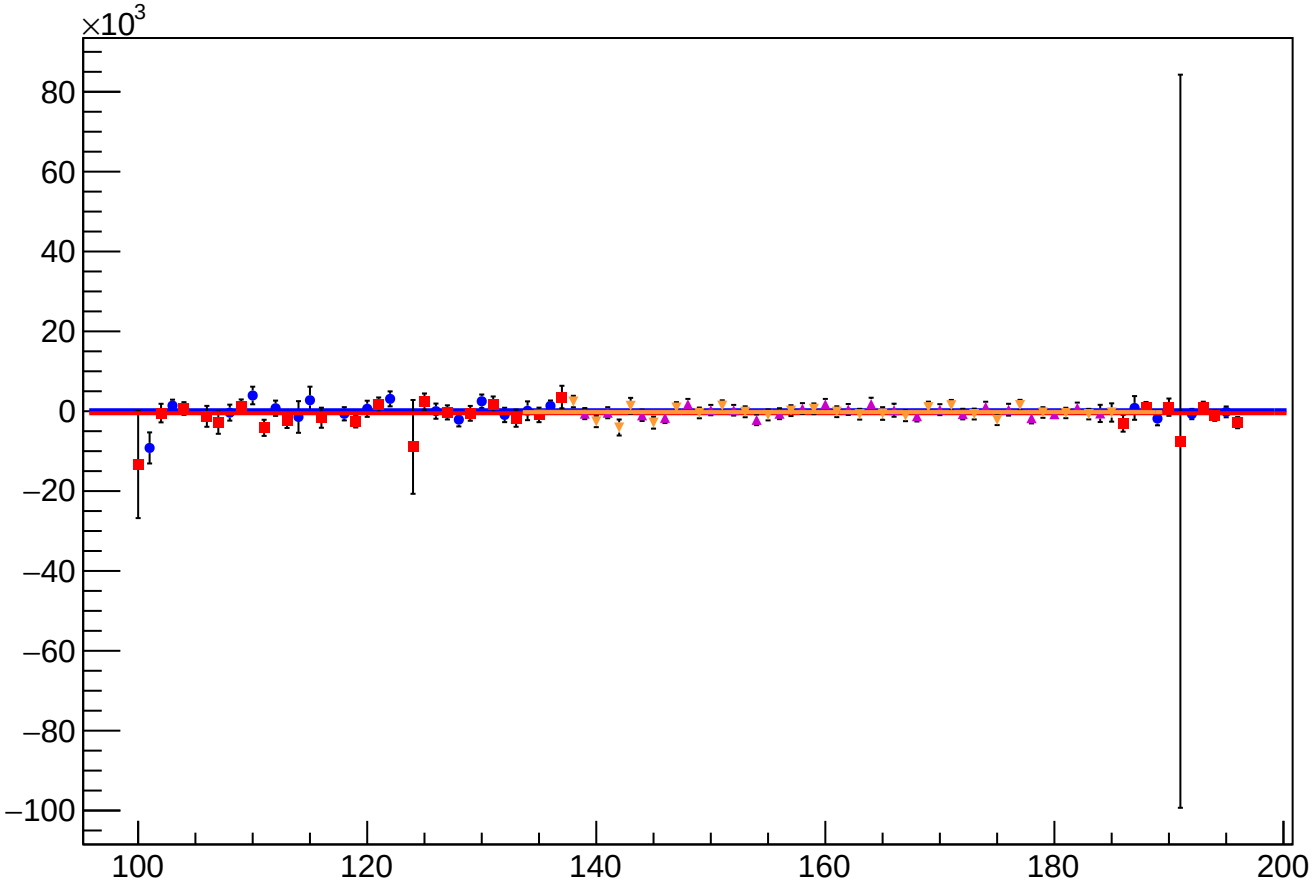
Left: 584.400+/-0.068 $\chi^2$/NDF: 1763106.4/47

Right: 1211.051+/-0.195 $\chi^2$/NDF: 4162637.2/45

In: 644.995+/-0.092 $\chi^2$/NDF:6422988.5/42

Out: 659.946+/-0.091 $\chi^2$/NDF:8658333.2/50

All: 652.555+/-0.064 $\chi^2$/NDF: 15094780.3/93




Right In: 249.255+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.755+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -511.047+/-381.693 $\chi^2$/NDF: 23.9/25

Left In: -92.472+/-288.217 $\chi^2$/NDF:14.7/22

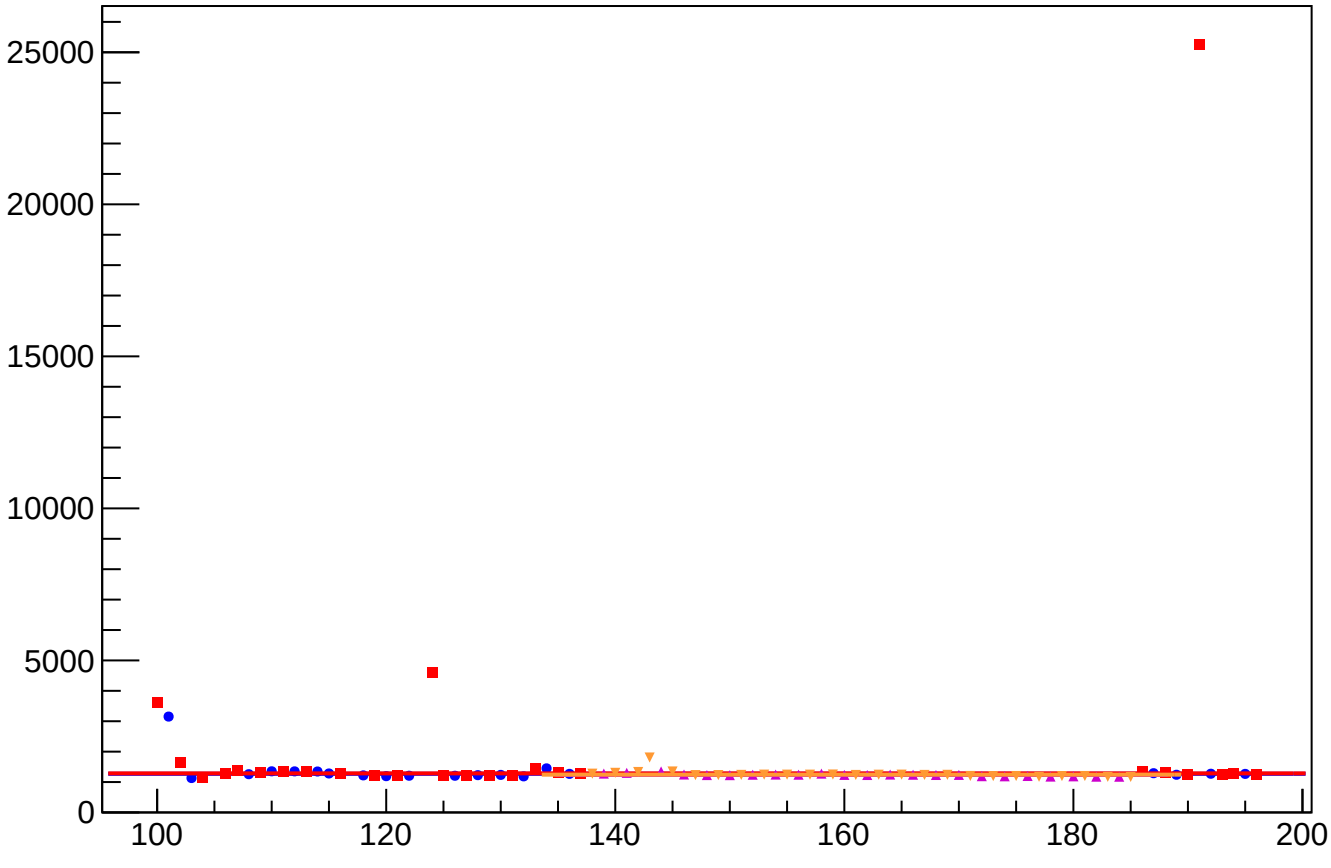
Left: -157.773+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -159.600+/-279.902 $\chi^2$/NDF: 45.5/45

In: 19.927+/-236.107 $\chi^2$/NDF:34.9/42

Out: -323.754+/-227.360 $\chi^2$/NDF:48.2/50

All: -158.398+/-163.773 $\chi^2$/NDF: 84.2/93




Right In: 1270.810+/-0.291 $\chi^2$/NDF: 520106.5/19

Left Out: 1242.825+/-0.200 $\chi^2$/NDF:203299.1/24

Right Out: 1285.278+/-0.270 $\chi^2$/NDF: 474925.1/25

Left In: 1233.752+/-0.204 $\chi^2$/NDF:39281.7/22

Left: 1238.371+/-0.143 $\chi^2$/NDF: 243589.6/47

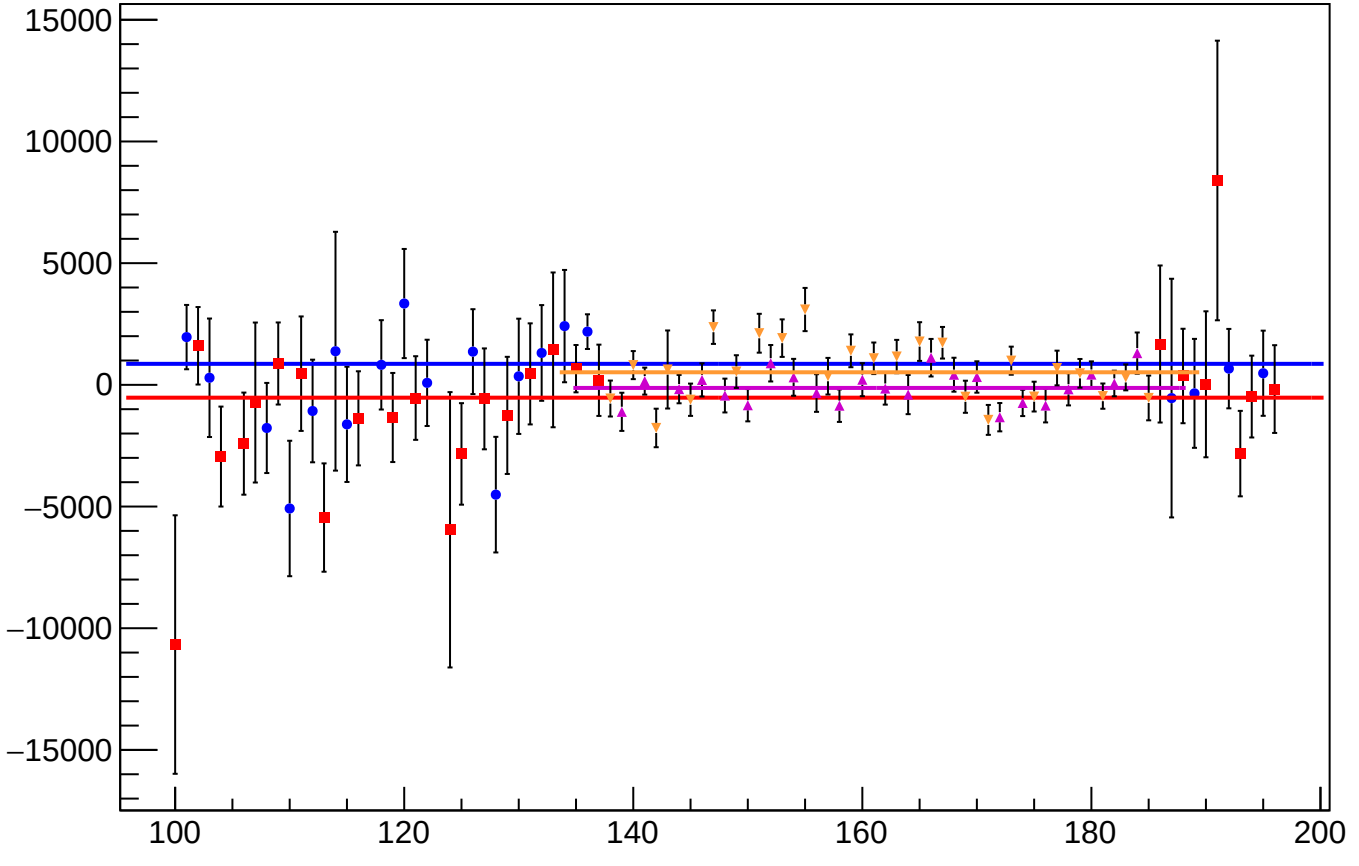
Right: 1278.590+/-0.198 $\chi^2$/NDF: 996359.9/45

In: 1245.941+/-0.167 $\chi^2$/NDF:570263.1/42

Out: 1257.888+/-0.161 $\chi^2$/NDF:694186.8/50

All: 1252.140+/-0.116 $\chi^2$/NDF: 1267106.8/93

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 863.441+/-393.363 $\chi^2$/NDF: 20.3/19

Left Out: 516.811+/-135.747 $\chi^2$/NDF:67.0/24

Right Out: -526.910+/-388.175 $\chi^2$/NDF: 23.3/25

Left In: -126.549+/-137.266 $\chi^2$/NDF:21.6/22

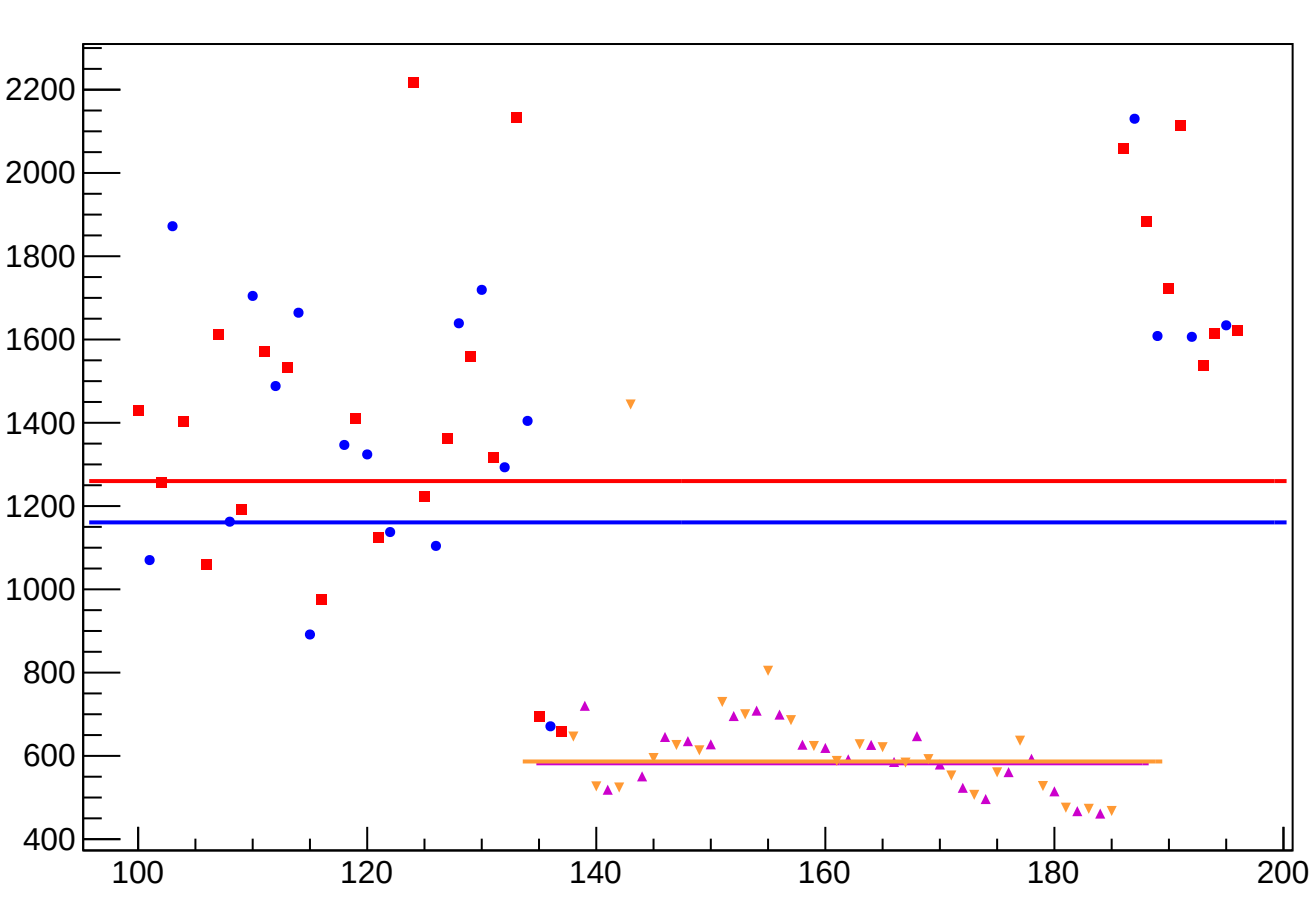
Left: 198.710+/-96.520 $\chi^2$/NDF: 99.7/47

Right: 159.038+/-276.297 $\chi^2$/NDF: 49.9/45

In: -19.085+/-129.602 $\chi^2$/NDF:47.5/42

Out: 403.079+/-128.138 $\chi^2$/NDF:96.7/50

All: 194.395+/-91.120 $\chi^2$/NDF: 149.6/93




Right In: 1160.778+/-0.278 $\chi^2$/NDF: 2006451.1/19

Left Out: 586.562+/-0.096 $\chi^2$/NDF:1202822.0/24

Right Out: 1260.008+/-0.274 $\chi^2$/NDF: 2091705.9/25

Left In: 582.189+/-0.097 $\chi^2$/NDF:559258.0/22

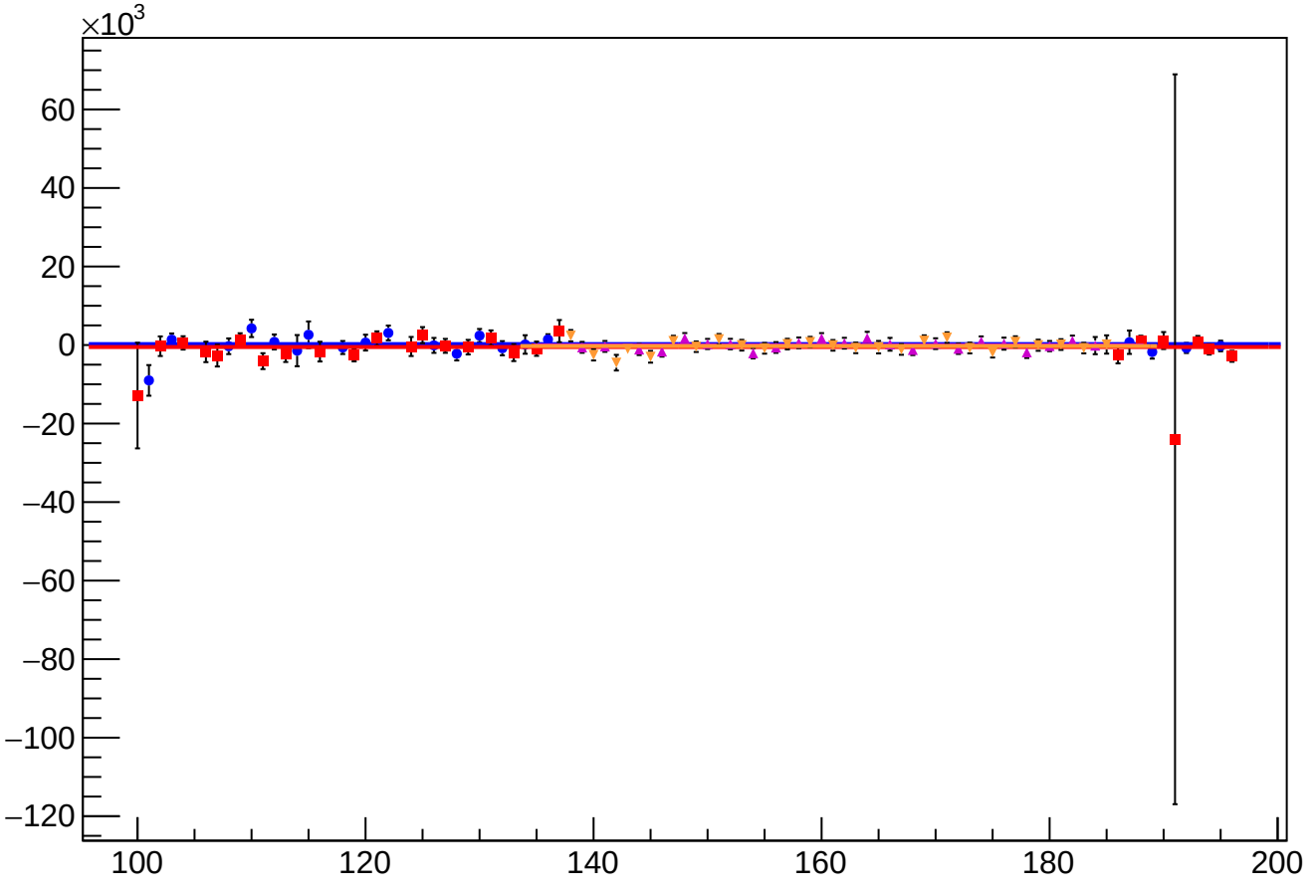
Left: 584.400+/-0.068 $\chi^2$/NDF: 1763106.4/47

Right: 1211.051+/-0.195 $\chi^2$/NDF: 4162637.2/45

In: 644.995+/-0.092 $\chi^2$/NDF:6422988.5/42

Out: 659.946+/-0.091 $\chi^2$/NDF:8658333.2/50

All: 652.555+/-0.064 $\chi^2$/NDF: 15094780.3/93




Right In: 239.727+/-413.708 $\chi^2$/NDF: 19.7/19

Left Out: -250.849+/-279.923 $\chi^2$/NDF:24.0/24

Right Out: -504.105+/-379.649 $\chi^2$/NDF: 23.5/25

Left In: -74.881+/-291.458 $\chi^2$/NDF:14.0/22

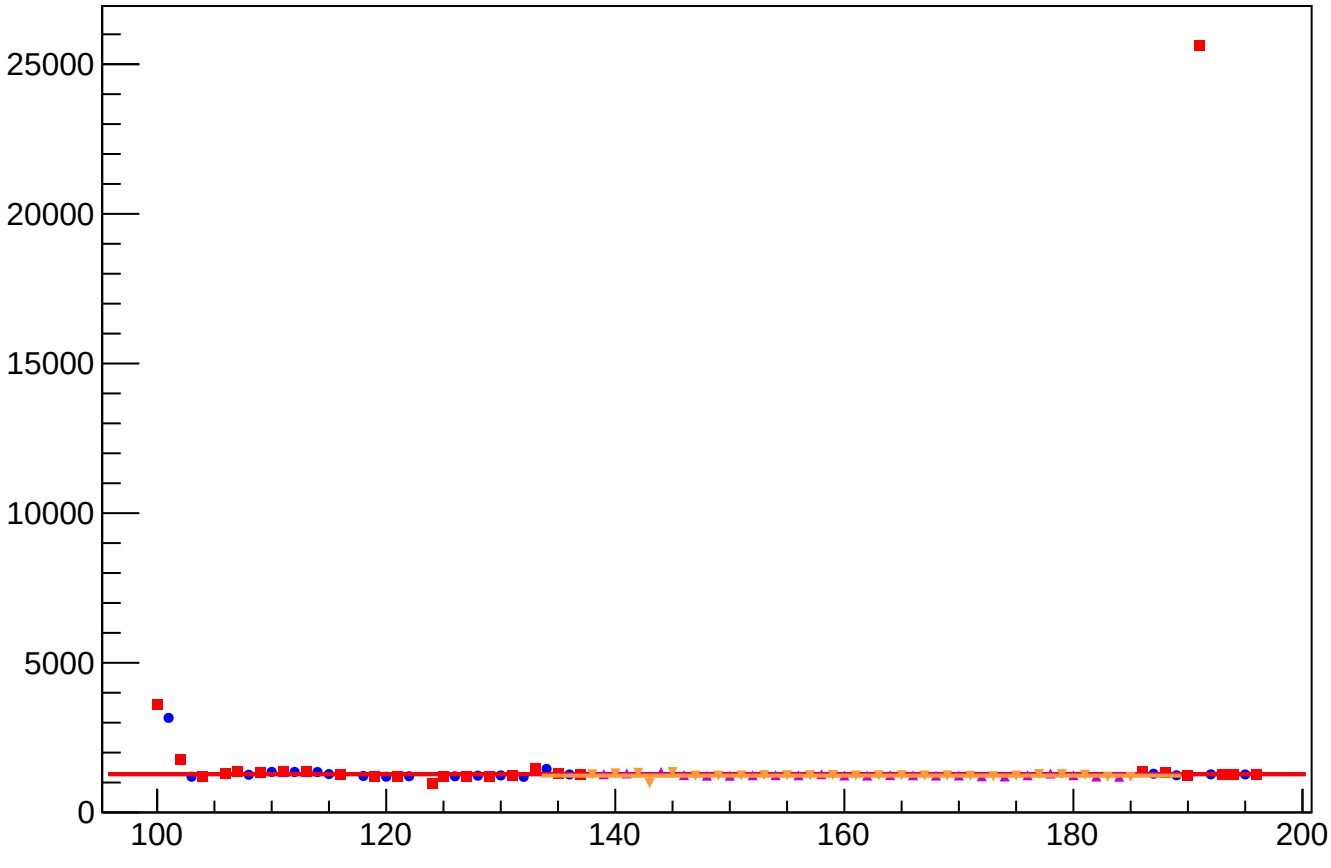
Left: -166.416+/-201.890 $\chi^2$/NDF: 38.2/47

Right: -164.063+/-279.720 $\chi^2$/NDF: 45.0/45

In: 29.473+/-238.267 $\chi^2$/NDF:34.1/42

Out: -340.041+/-225.302 $\chi^2$/NDF:47.8/50

All: -165.610+/-163.704 $\chi^2$/NDF: 83.2/93




Right In: 1277.412+/-0.293 $\chi^2$/NDF: 508239.1/19

Left Out: 1229.986+/-0.198 $\chi^2$/NDF:141607.5/24

Right Out: 1281.098+/-0.268 $\chi^2$/NDF: 368618.3/25

Left In: 1247.785+/-0.206 $\chi^2$/NDF:27340.8/22

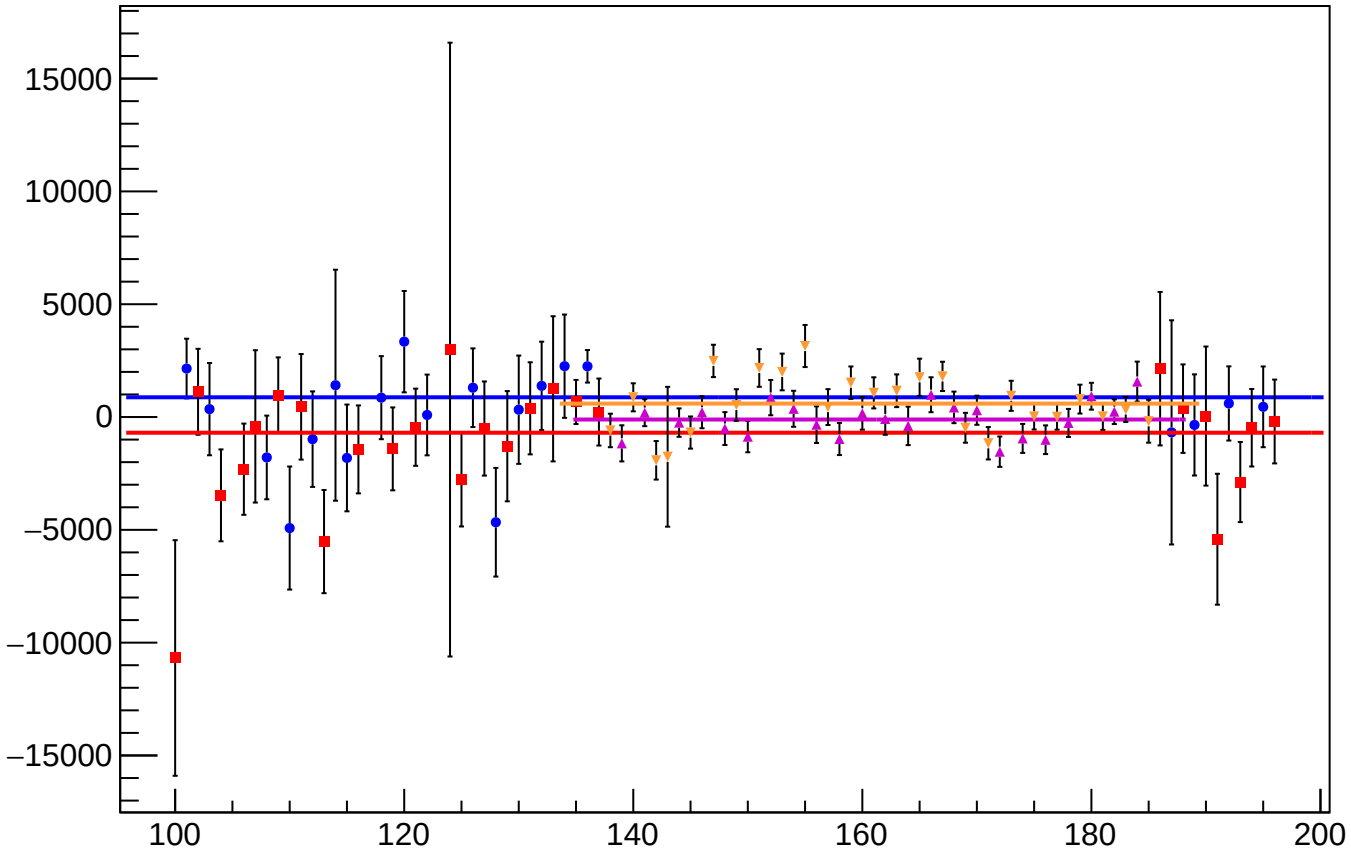
Left: 1238.526+/-0.143 $\chi^2$/NDF: 172828.2/47

Right: 1279.413+/-0.198 $\chi^2$/NDF: 876943.6/45

In: 1257.612+/-0.168 $\chi^2$/NDF:542434.4/42

Out: 1247.987+/-0.159 $\chi^2$/NDF:533709.3/50

All: 1252.530+/-0.116 $\chi^2$/NDF: 1077866.8/93




Right In: 874.661+/-393.668 $\chi^2$/NDF: 21.0/19

Left Out: 595.000+/-142.130 $\chi^2$/NDF:57.3/24

Right Out: -695.390+/-392.090 $\chi^2$/NDF: 22.5/25

Left In: -110.252+/-144.232 $\chi^2$/NDF:25.7/22

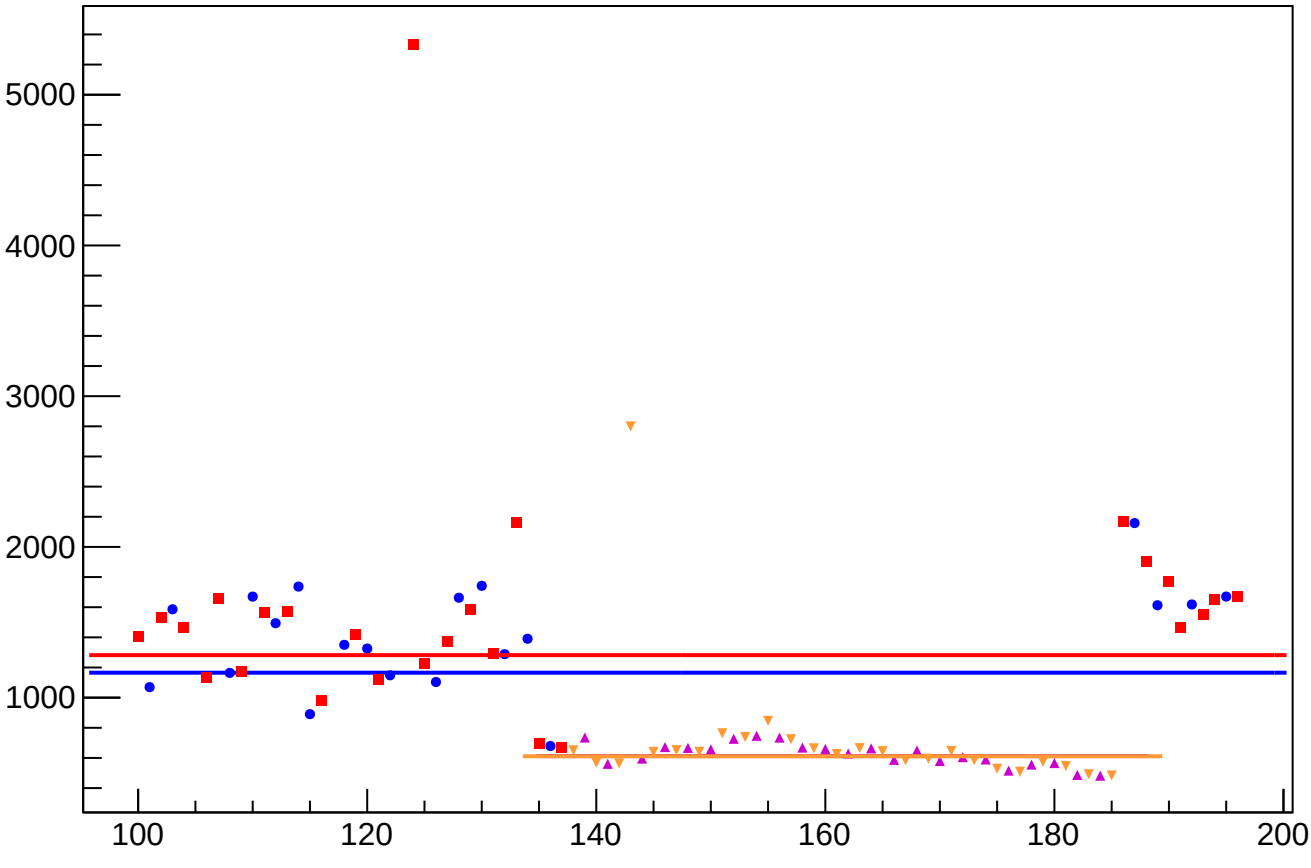
Left: 247.550+/-101.236 $\chi^2$/NDF: 95.2/47

Right: 86.482+/-277.806 $\chi^2$/NDF: 51.4/45

In: 6.311+/-135.429 $\chi^2$/NDF:52.2/42

Out: 445.133+/-133.622 $\chi^2$/NDF:89.4/50

All: 228.668+/-95.117 $\chi^2$/NDF: 146.9/93




Right In: 1165.533+/-0.278 $\chi^2$/NDF: 1905552.2/19

Left Out: 611.087+/-0.101 $\chi^2$/NDF:1619322.3/24

Right Out: 1282.071+/-0.277 $\chi^2$/NDF: 2271097.3/25

Left In: 612.399+/-0.102 $\chi^2$/NDF:508595.4/22

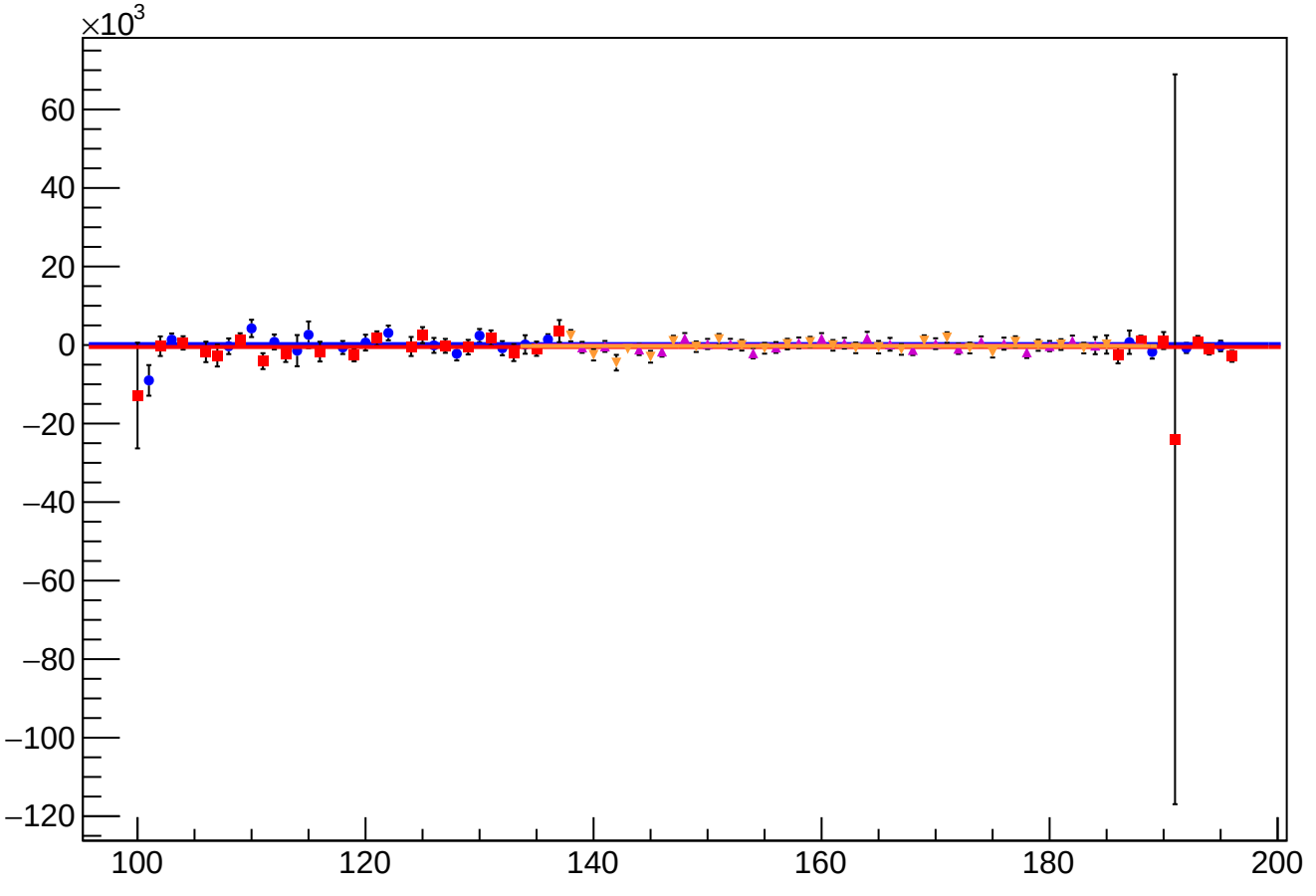
Left: 611.733+/-0.072 $\chi^2$/NDF: 2128001.7/47

Right: 1224.036+/-0.196 $\chi^2$/NDF: 4264636.1/45

In: 677.861+/-0.096 $\chi^2$/NDF:5895331.8/42

Out: 689.015+/-0.094 $\chi^2$/NDF:9067281.5/50

All: 683.513+/-0.067 $\chi^2$/NDF: 14969487.9/93




Right In: 239.729+/-413.708 $\chi^2$/NDF: 19.7/19

Left Out: -250.851+/-279.923 $\chi^2$/NDF:24.0/24

Right Out: -504.105+/-379.649 $\chi^2$/NDF: 23.5/25

Left In: -74.881+/-291.458 $\chi^2$/NDF:14.0/22

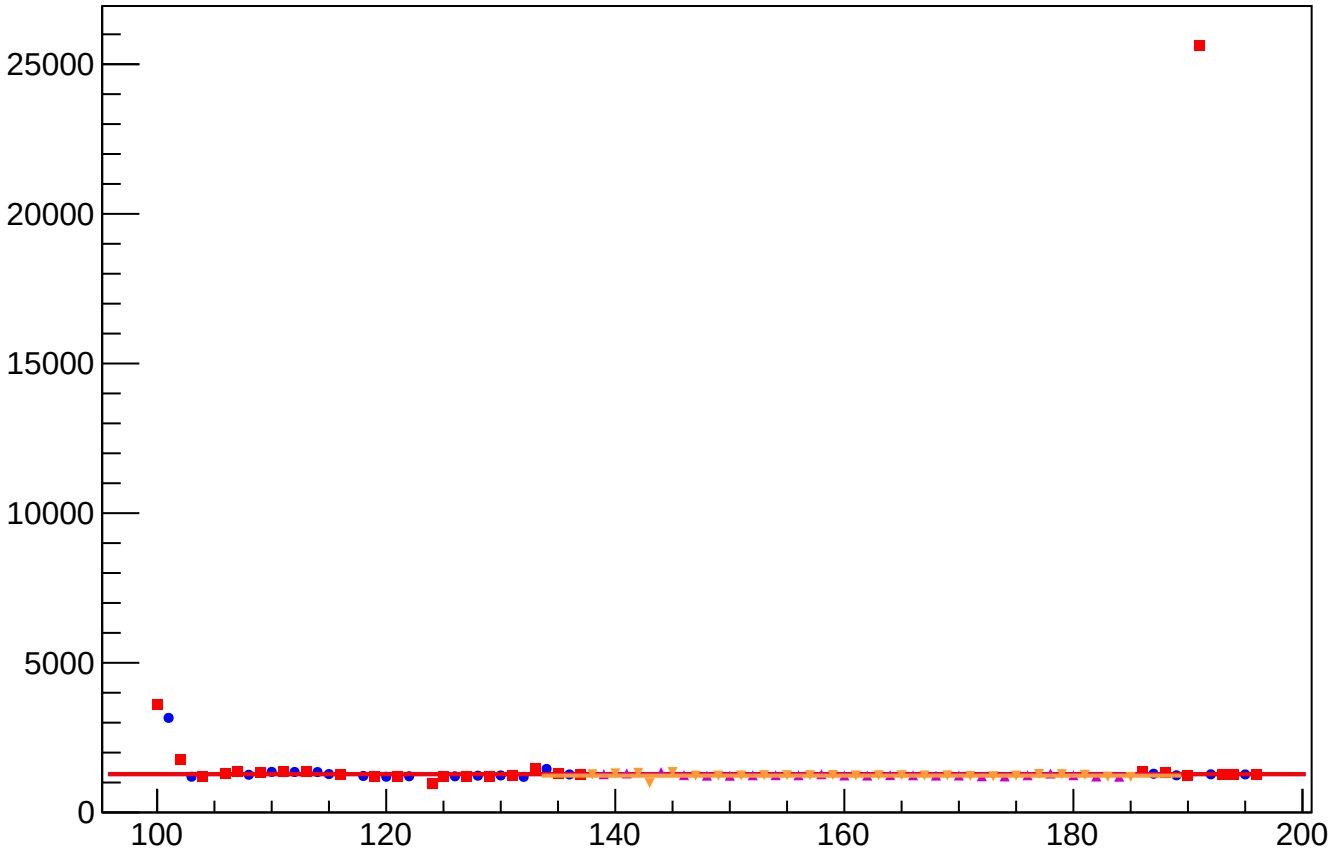
Left: -166.417+/-201.890 $\chi^2$/NDF: 38.2/47

Right: -164.062+/-279.720 $\chi^2$/NDF: 45.0/45

In: 29.473+/-238.267 $\chi^2$/NDF:34.1/42

Out: -340.042+/-225.302 $\chi^2$/NDF:47.8/50

All: -165.610+/-163.704 $\chi^2$/NDF: 83.2/93




Right In: 1277.411+/-0.293 $\chi^2$/NDF: 508239.3/19

Left Out: 1229.986+/-0.198 $\chi^2$/NDF:141606.6/24

Right Out: 1281.098+/-0.268 $\chi^2$/NDF: 368618.2/25

Left In: 1247.785+/-0.206 $\chi^2$/NDF:27340.7/22

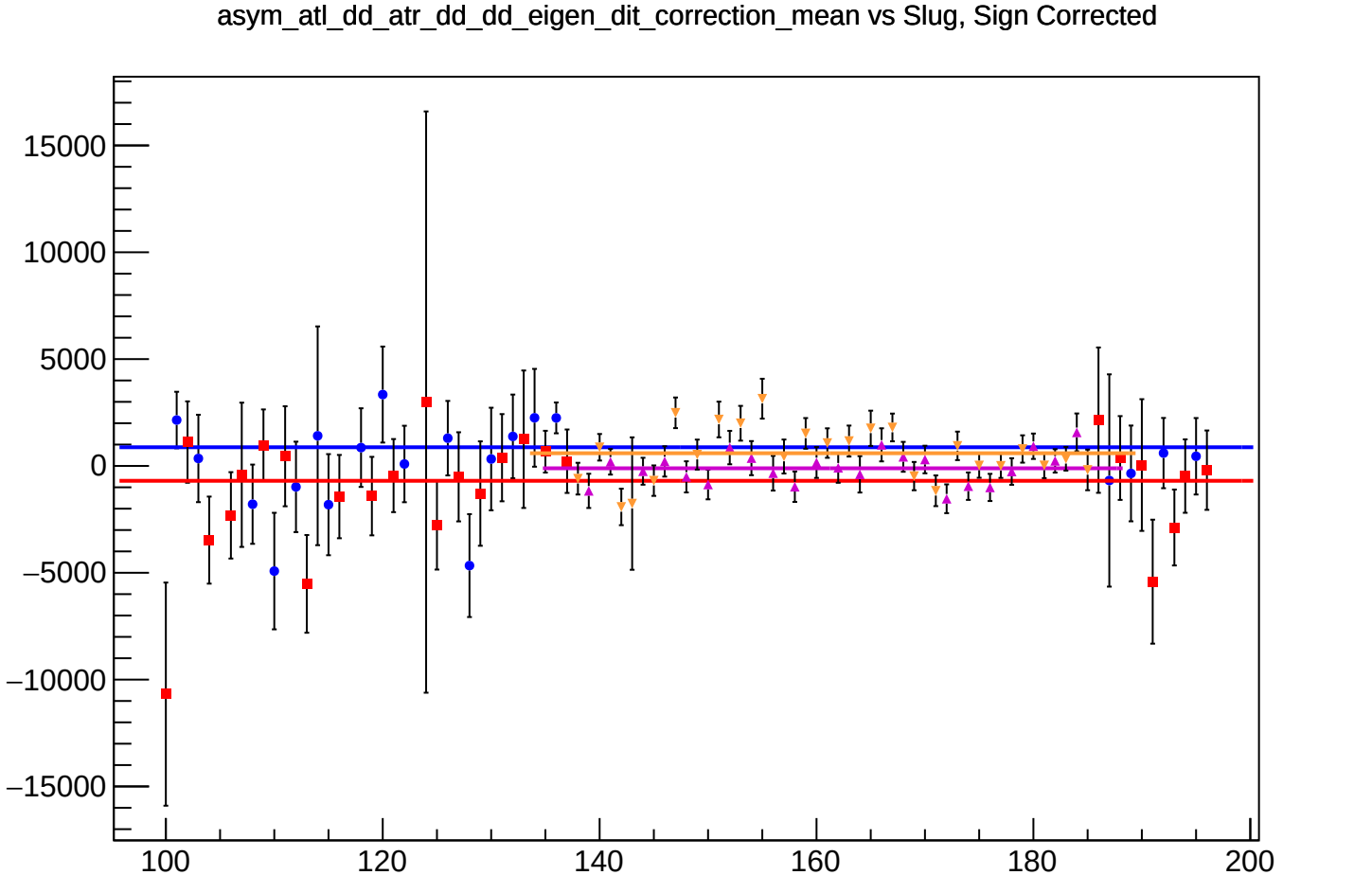
Left: 1238.526+/-0.143 $\chi^2$/NDF: 172827.1/47

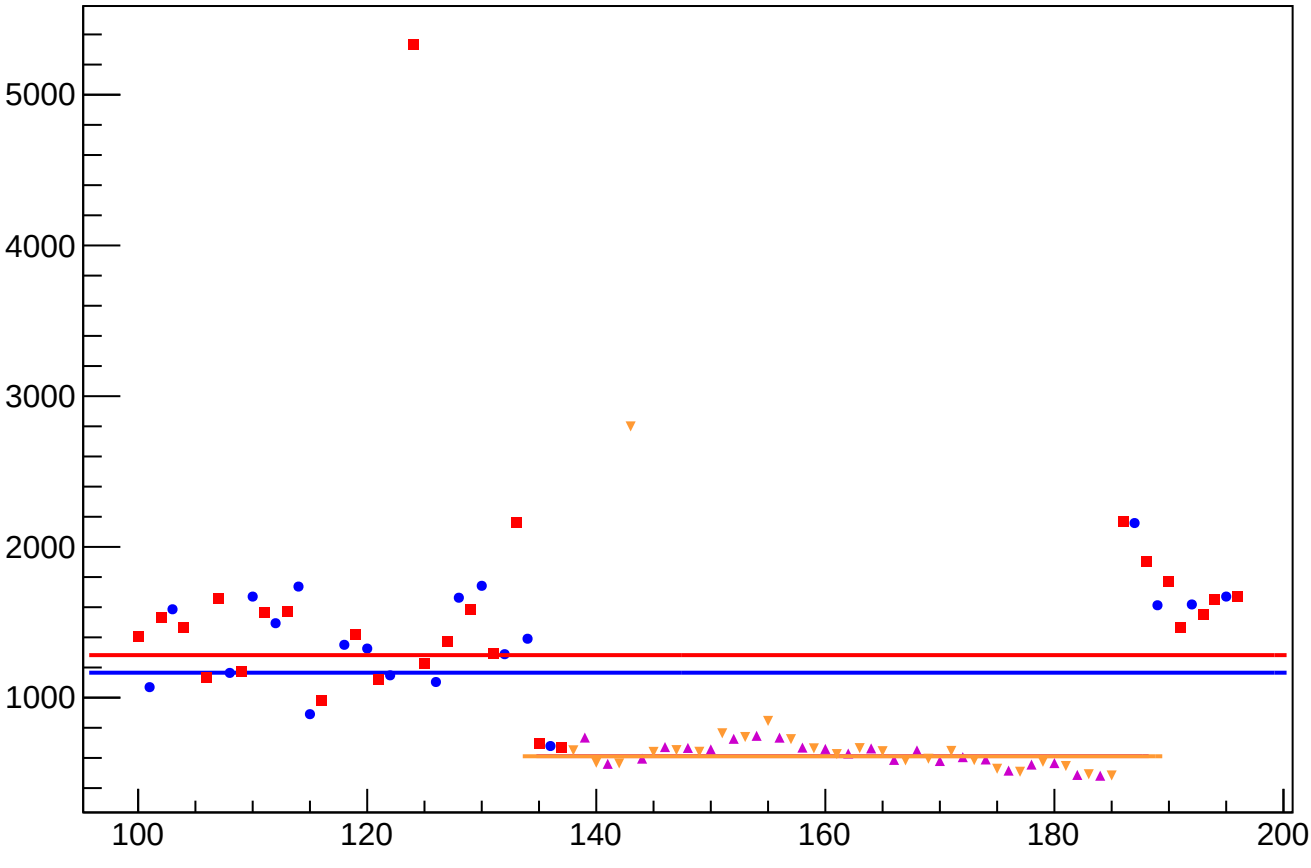
Right: 1279.413+/-0.198 $\chi^2$/NDF: 876943.7/45

In: 1257.612+/-0.168 $\chi^2$/NDF:542434.5/42

Out: 1247.987+/-0.159 $\chi^2$/NDF:533708.3/50

All: 1252.530+/-0.116 $\chi^2$/NDF: 1077865.9/93


asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: 874.656+/-393.670 χ²/NDF: 21.0/19
Left Out: 595.000+/-142.130 χ²/NDF:57.3/24
Right Out: -695.400+/-392.091 χ²/NDF: 22.5/25
Left In: -110.251+/-144.232 χ²/NDF:25.7/22
Left: 247.550+/-101.236 χ²/NDF: 95.2/47
Right: 86.474+/-277.807 χ²/NDF: 51.4/45
In: 6.310+/-135.429 χ²/NDF:52.2/42
Out: 445.132+/-133.622 χ²/NDF:89.4/50
All: 228.667+/-95.117 χ²/NDF: 146.9/93




Right In: 1165.539+/-0.278 $\chi^2$/NDF: 1905480.8/19

Left Out: 611.086+/-0.101 $\chi^2$/NDF:1619319.5/24

Right Out: 1282.077+/-0.277 $\chi^2$/NDF: 2271024.5/25

Left In: 612.398+/-0.102 $\chi^2$/NDF:508597.7/22

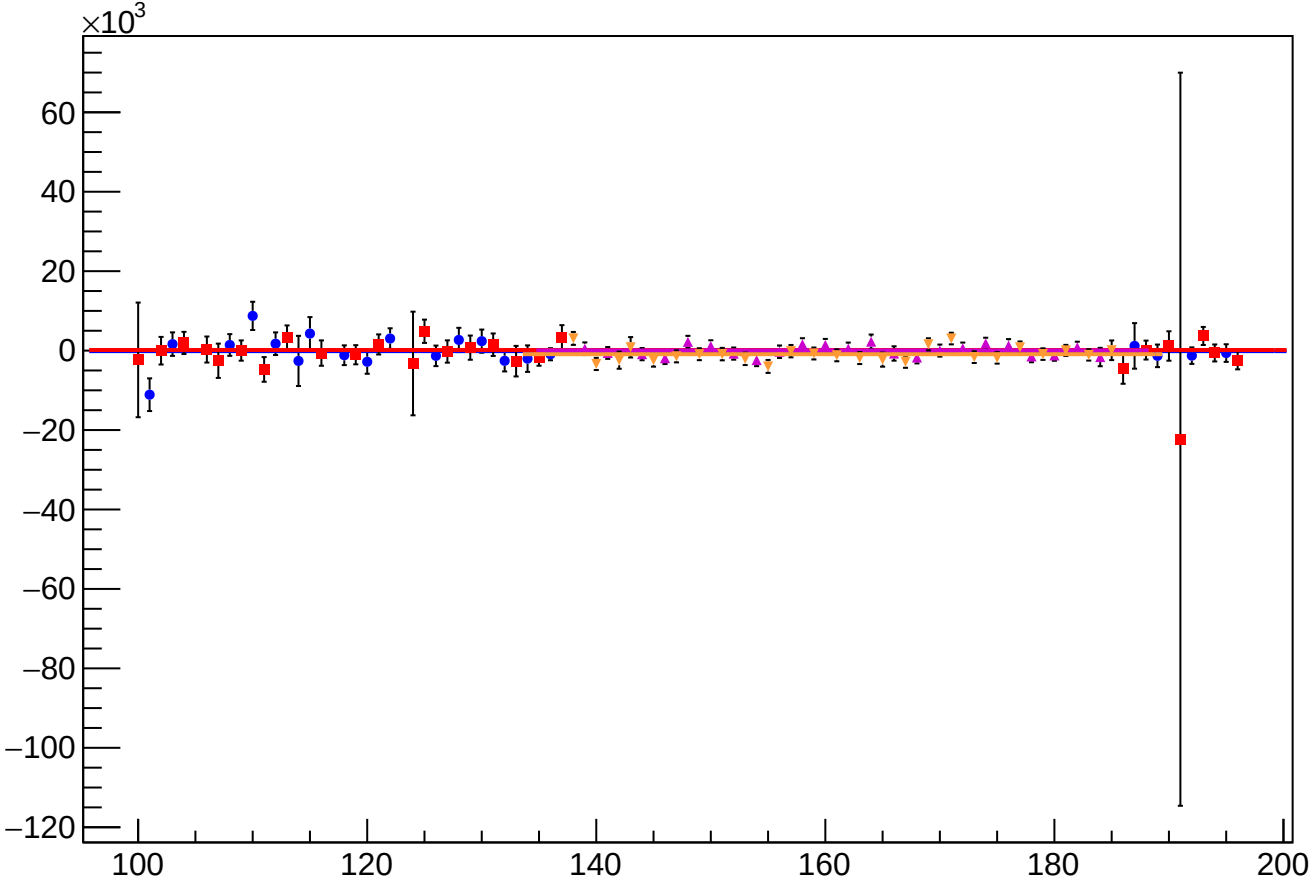
Left: 611.733+/-0.072 $\chi^2$/NDF: 2128001.1/47

Right: 1224.042+/-0.196 $\chi^2$/NDF: 4264491.7/45

In: 677.861+/-0.096 $\chi^2$/NDF:5895327.7/42

Out: 689.016+/-0.094 $\chi^2$/NDF:9067276.7/50

All: 683.513+/-0.067 $\chi^2$/NDF: 14969479.6/93




Right In: -128.519+/-616.093 $\chi^2$/NDF: 22.0/19

Left Out: -899.894+/-316.449 $\chi^2$/NDF:29.8/24

Right Out: 157.636+/-581.141 $\chi^2$/NDF: 15.7/25

Left In: 48.178+/-320.929 $\chi^2$/NDF:17.9/22

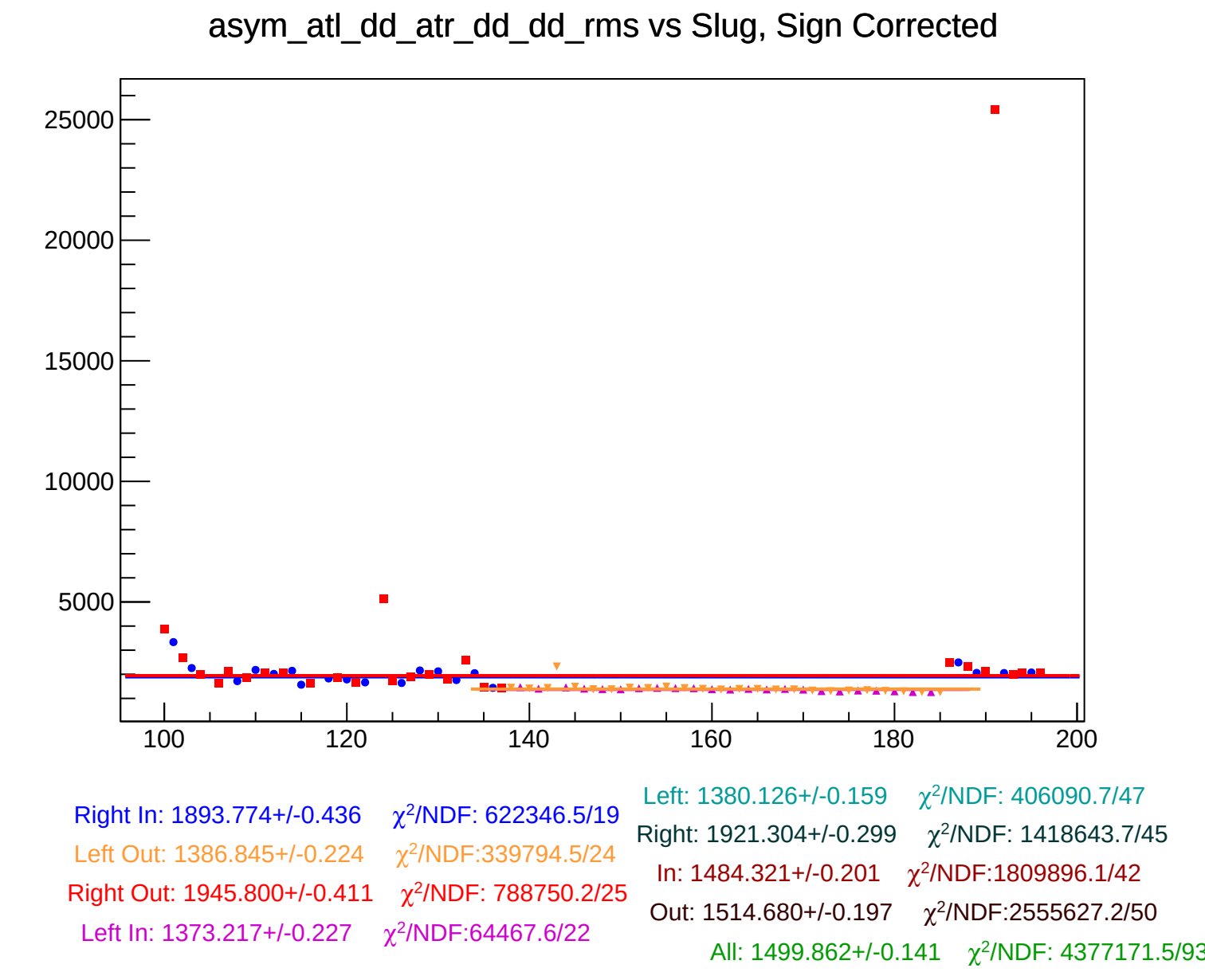
Left: -432.522+/-225.330 $\chi^2$/NDF: 52.1/47

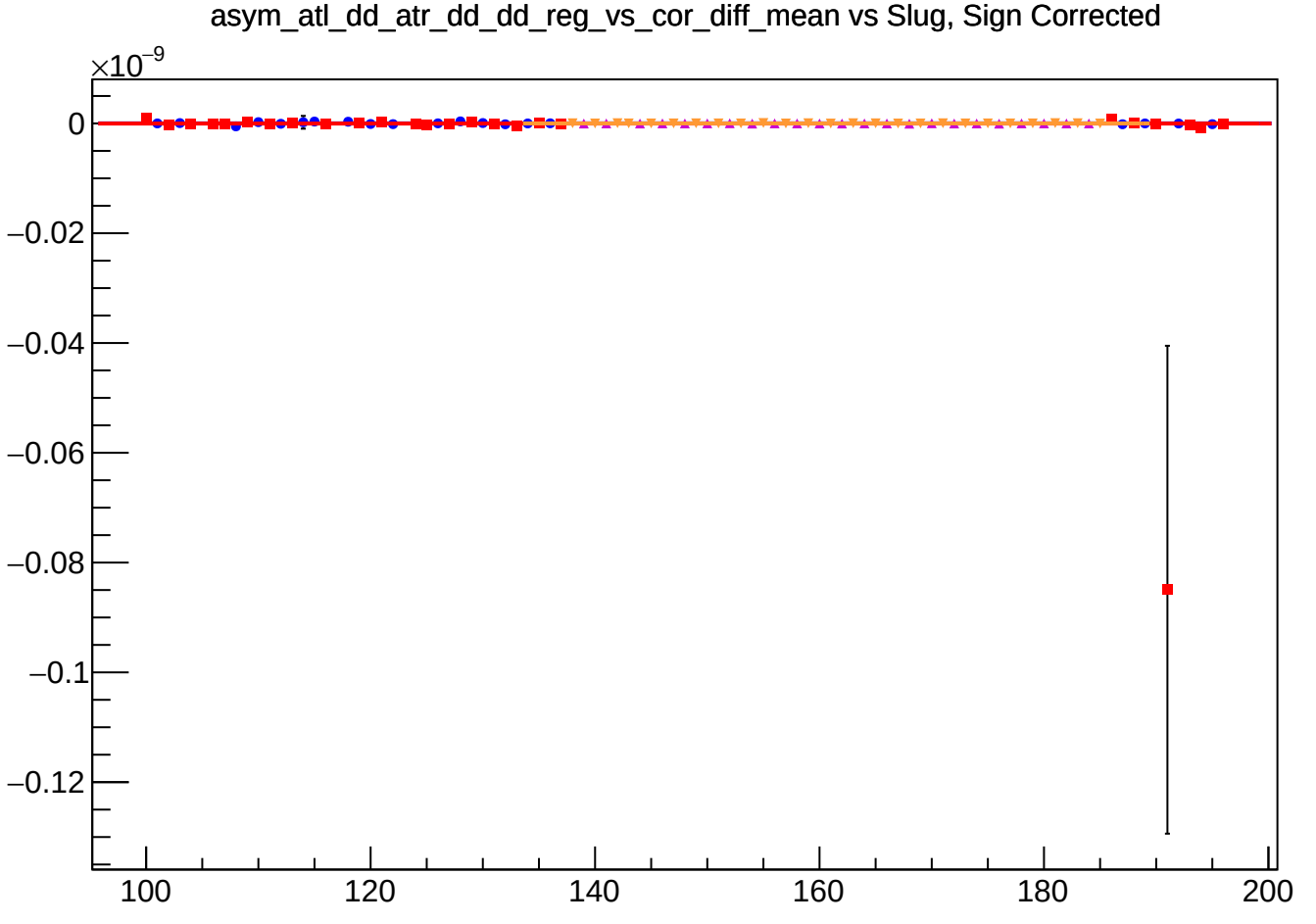
Right: 22.905+/-422.745 $\chi^2$/NDF: 37.8/45

In: 10.465+/-284.627 $\chi^2$/NDF:39.9/42

Out: -658.037+/-277.917 $\chi^2$/NDF:48.1/50

All: -331.759+/-198.847 $\chi^2$/NDF: 90.8/93


asym_atl_dd_atr_dd_dd_rms vs Slug, Sign Corrected
25000
20000
15000
10000
5000
100
120
140
160
180
200
Right In: 1893.774+/-0.436 χ²/NDF: 622346.5/19
Left Out: 1386.845+/-0.224 χ²/NDF:339794.5/24
Right Out: 1945.800+/-0.411 χ²/NDF: 788750.2/25
Left In: 1373.217+/-0.227 χ²/NDF:64467.6/22
Left: 1380.126+/-0.159 χ²/NDF: 406090.7/47
Right: 1921.304+/-0.299 χ²/NDF: 1418643.7/45
In: 1484.321+/-0.201 χ²/NDF:1809896.1/42
Out: 1514.680+/-0.197 χ²/NDF:2555627.2/50
All: 1499.862+/-0.141 χ²/NDF: 4377171.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 38.4/47

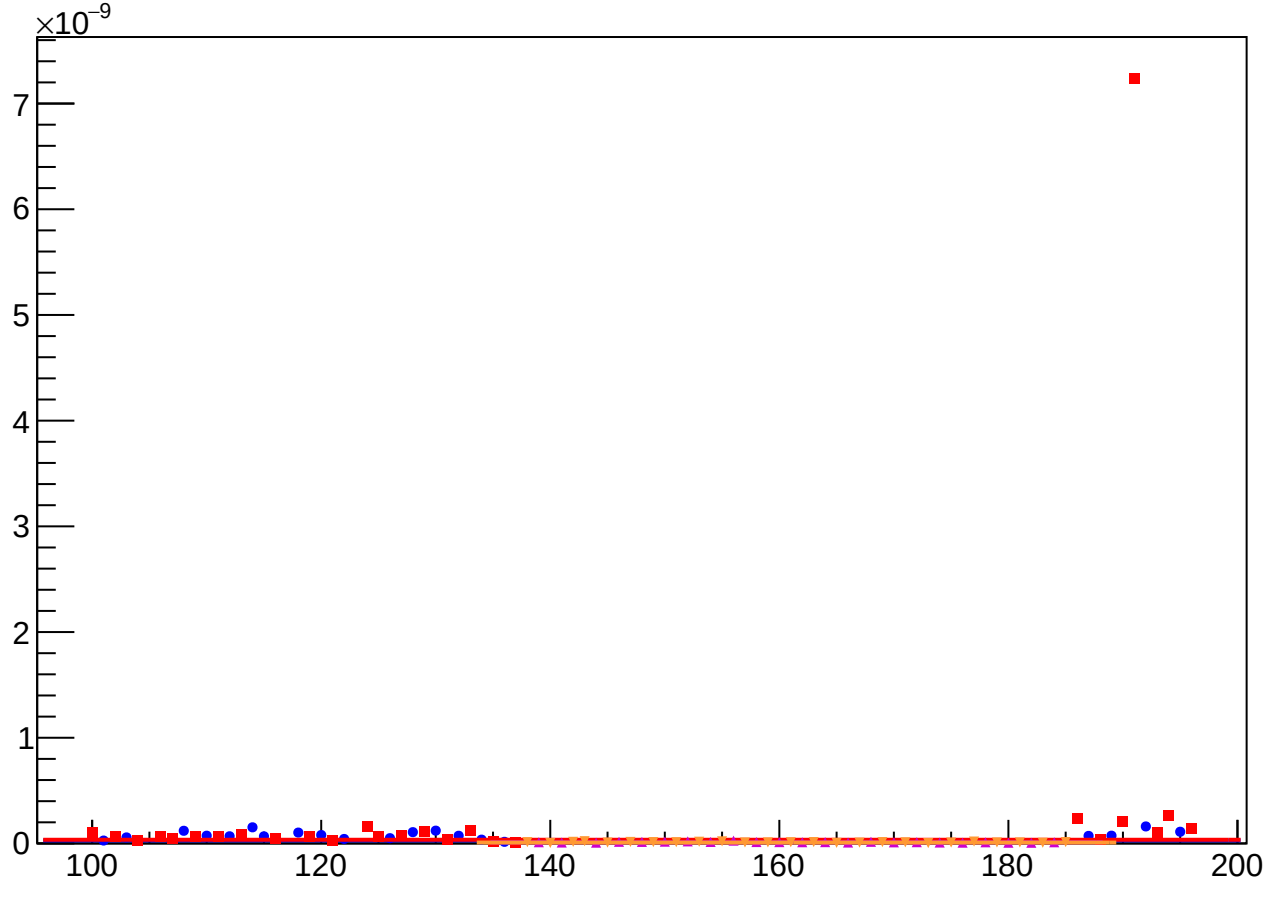
Right: -0.000+/-0.000 $\chi^2$/NDF: 59.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:31.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:66.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 97.6/93

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3648903.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2148494.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4304094.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1232395.4/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3597627.7/47

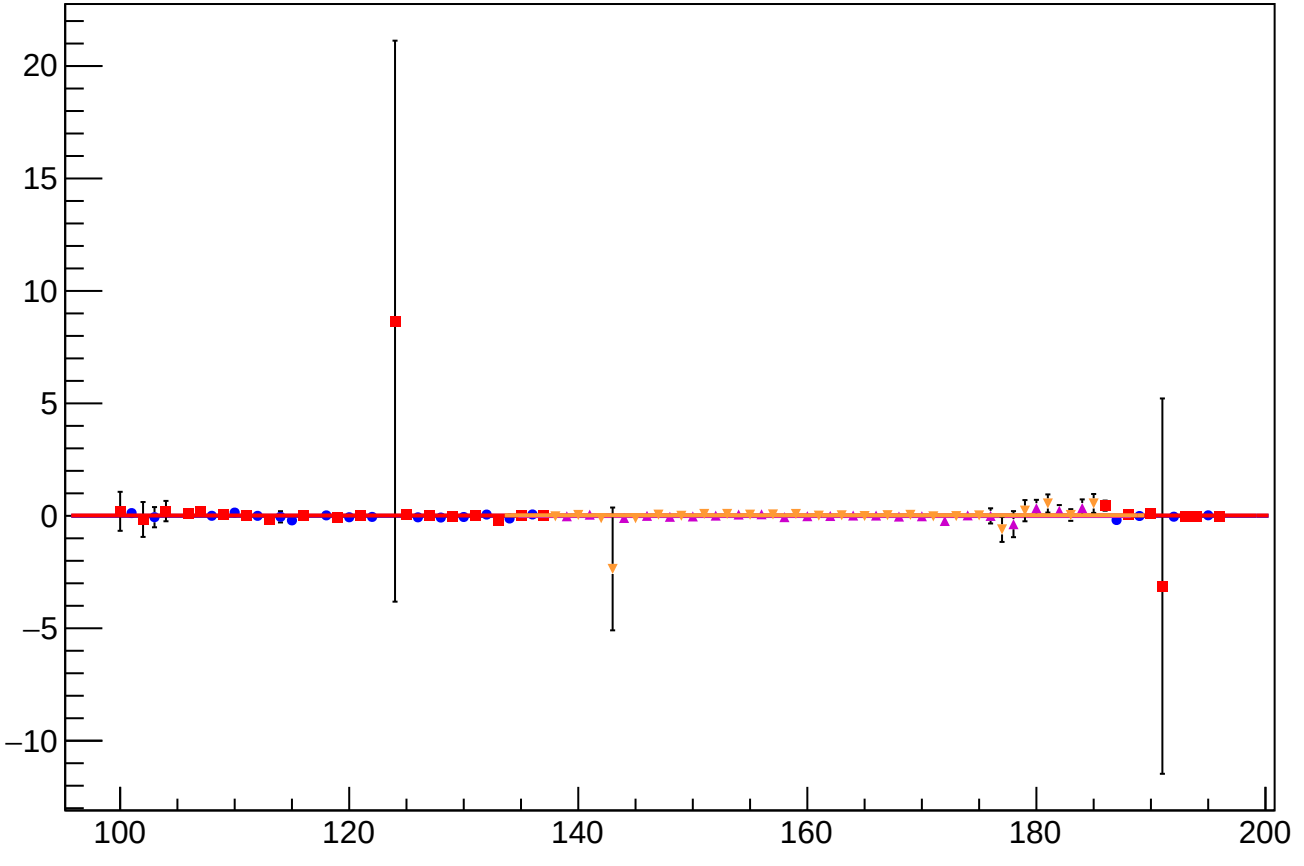
Right: 0.000+/-0.000 $\chi^2$/NDF: 8043176.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:6752874.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9488424.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16502469.2/93

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

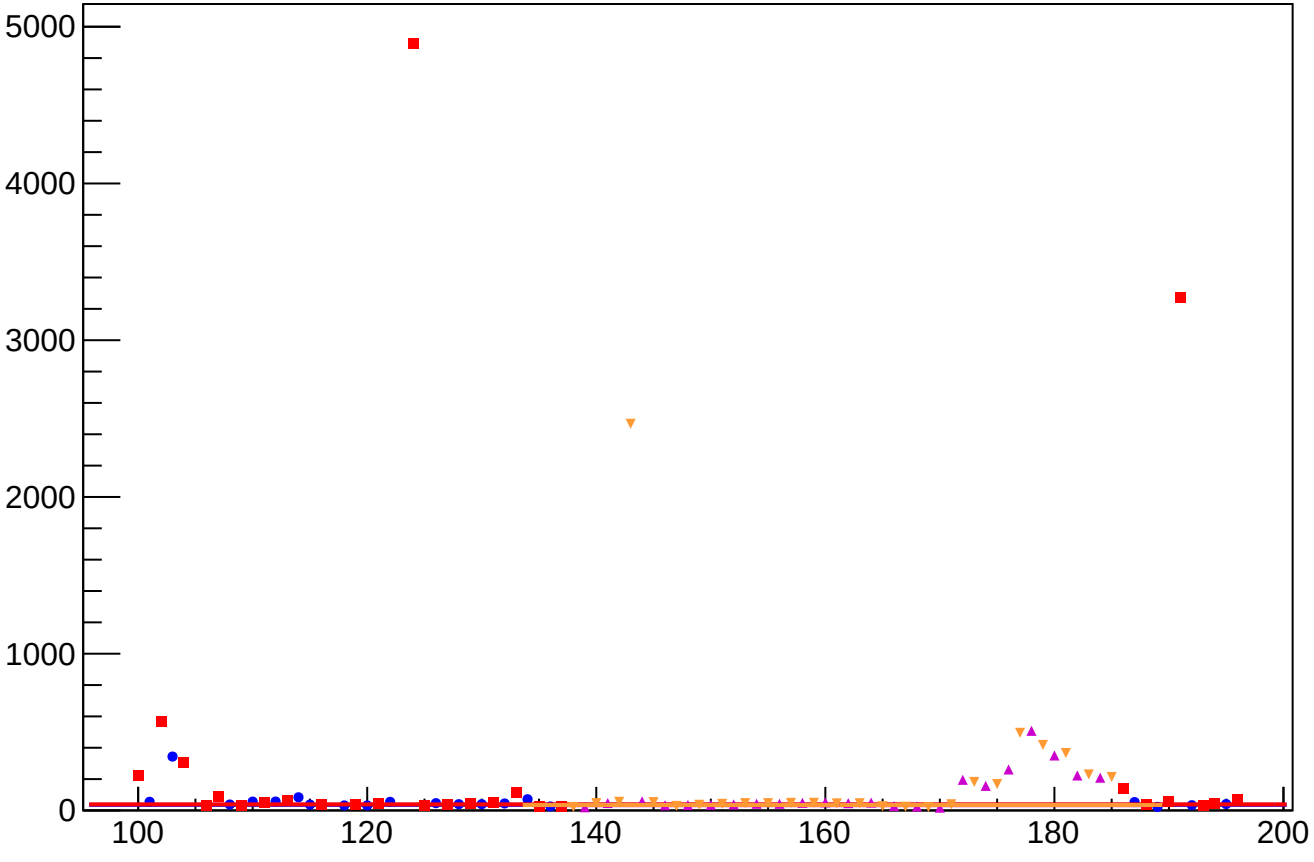
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.858+/-0.009 $\chi^2$/NDF: 2281000.2/19

Left Out: 34.624+/-0.007 $\chi^2$/NDF:11402451.4/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4394200.8/25

Left In: 33.592+/-0.007 $\chi^2$/NDF:10067466.4/22

Left: 34.094+/-0.005 $\chi^2$/NDF: 21480396.5/47

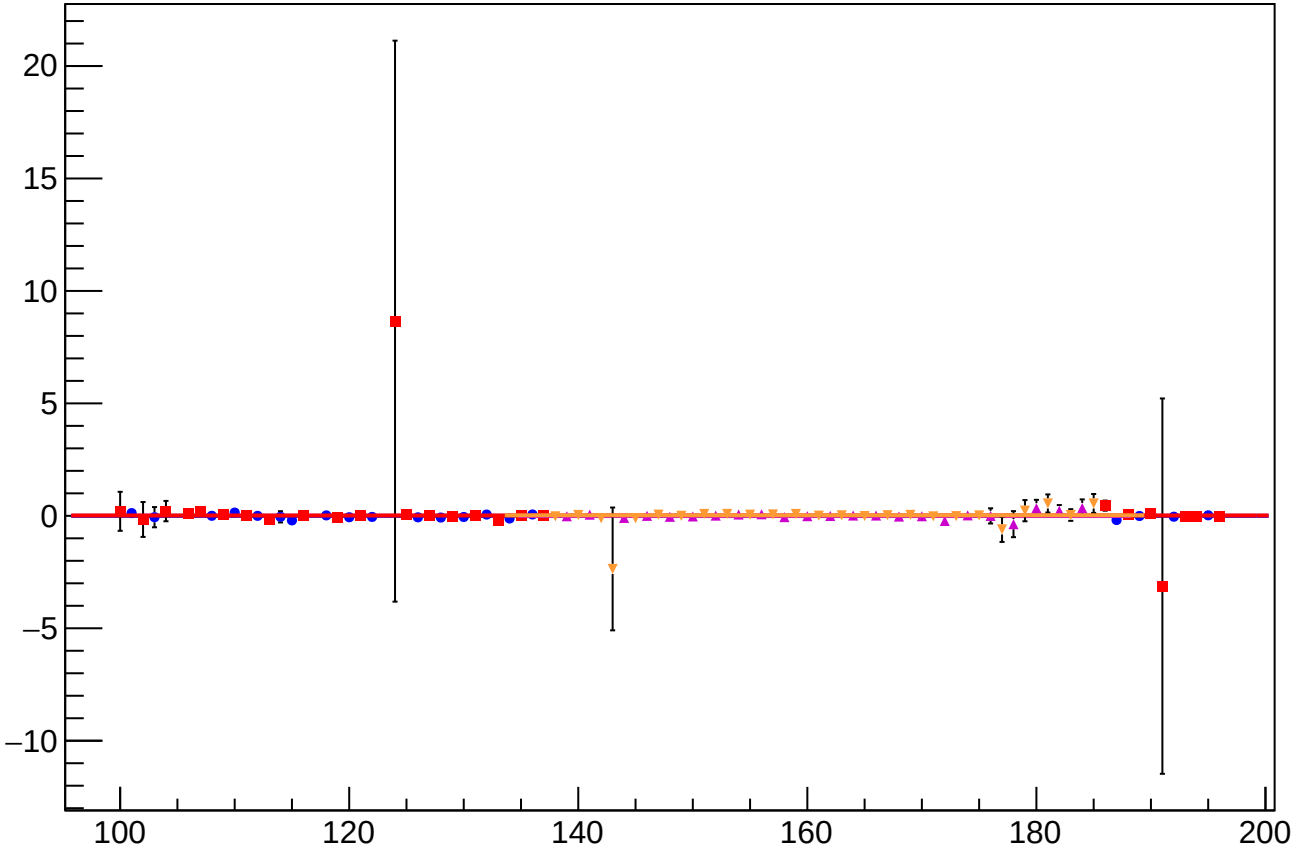
Right: 37.284+/-0.007 $\chi^2$/NDF: 6721726.2/45

In: 34.403+/-0.006 $\chi^2$/NDF:12385641.9/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915539.1/50

All: 35.244+/-0.004 $\chi^2$/NDF: 28346795.6/93

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

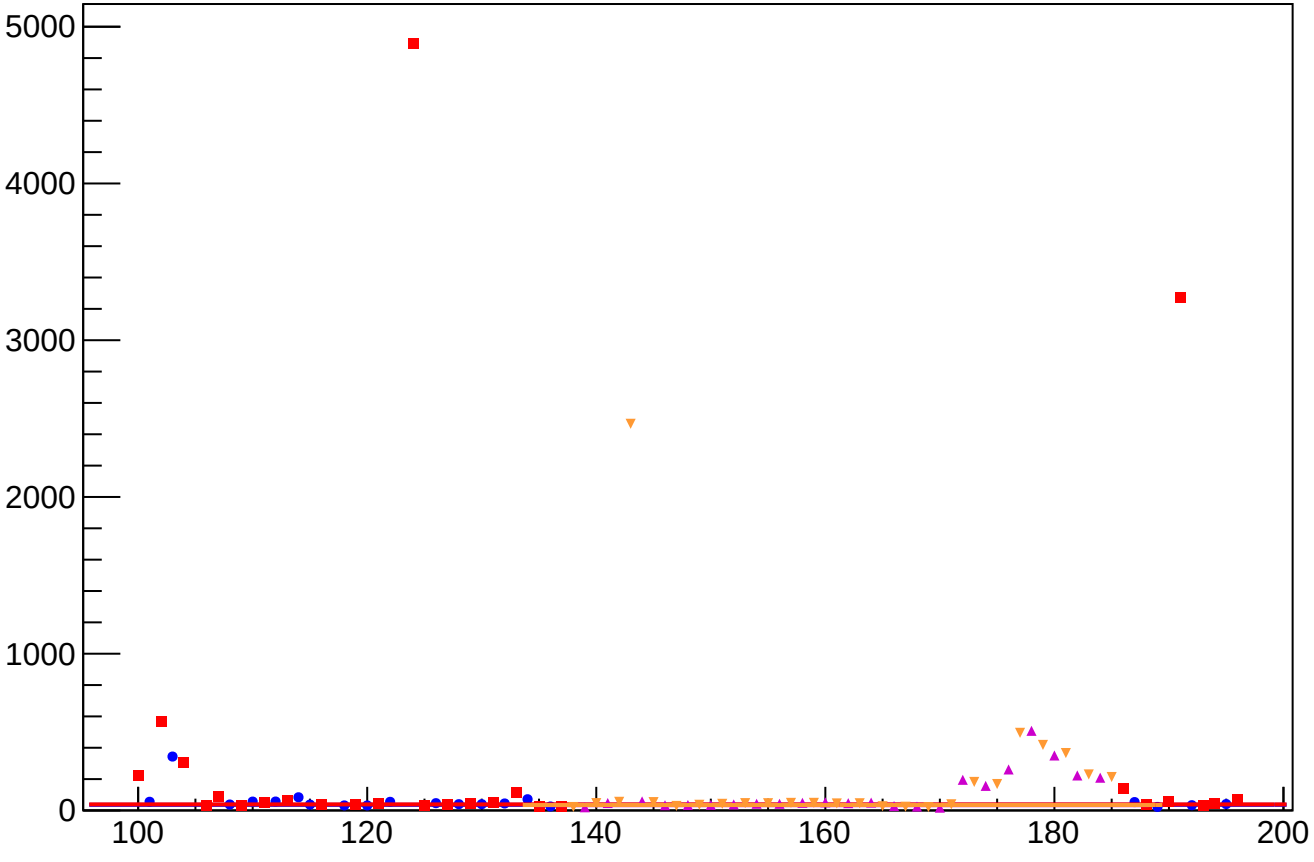
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.858+/-0.009 $\chi^2$/NDF: 2281000.2/19

Left Out: 34.624+/-0.007 $\chi^2$/NDF:11402451.4/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4394200.8/25

Left In: 33.592+/-0.007 $\chi^2$/NDF:10067466.4/22

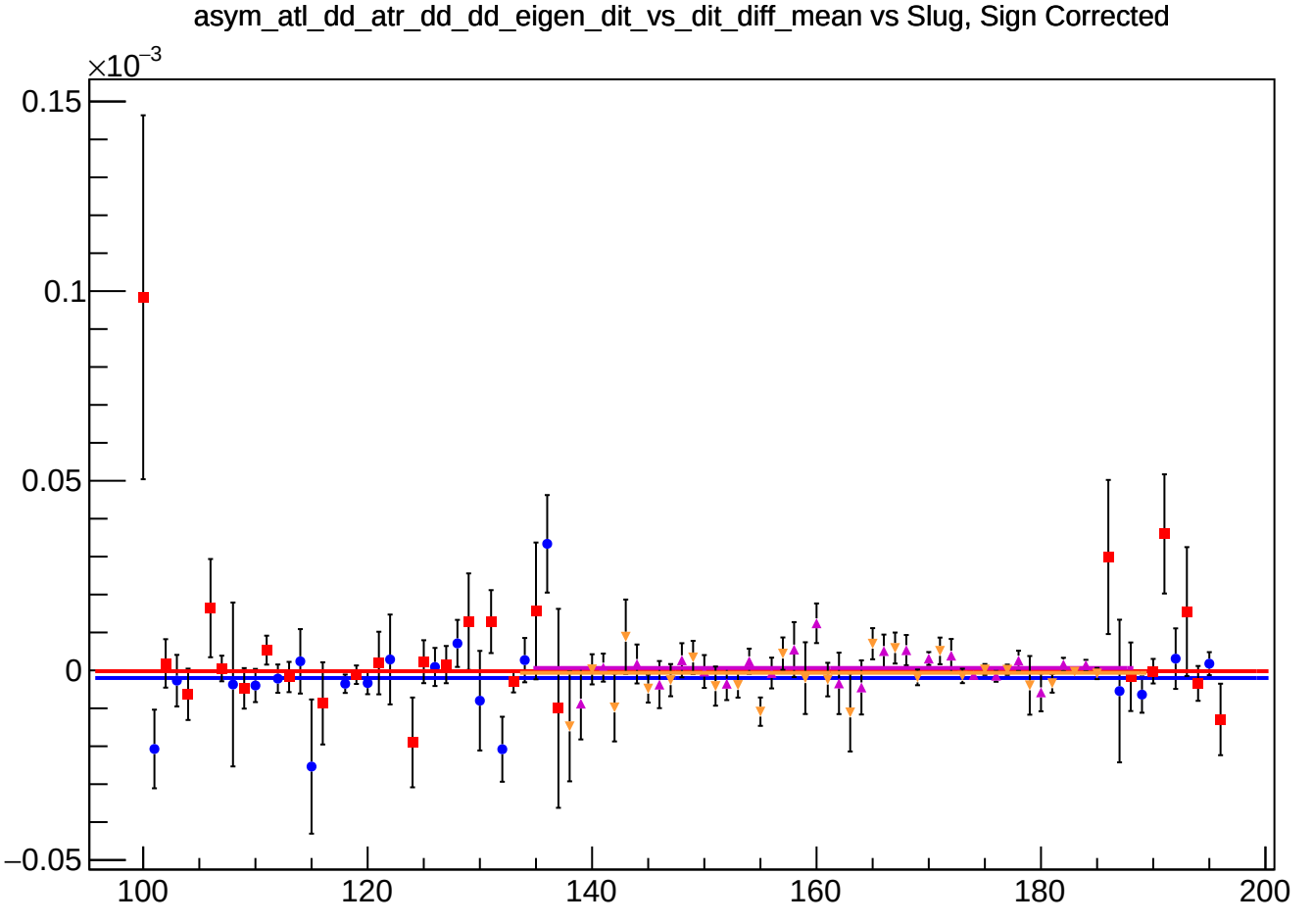
Left: 34.094+/-0.005 $\chi^2$/NDF: 21480396.5/47

Right: 37.284+/-0.007 $\chi^2$/NDF: 6721726.2/45

In: 34.403+/-0.006 $\chi^2$/NDF:12385641.9/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915539.1/50

All: 35.244+/-0.004 $\chi^2$/NDF: 28346795.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 24.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.9/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 53.2/47

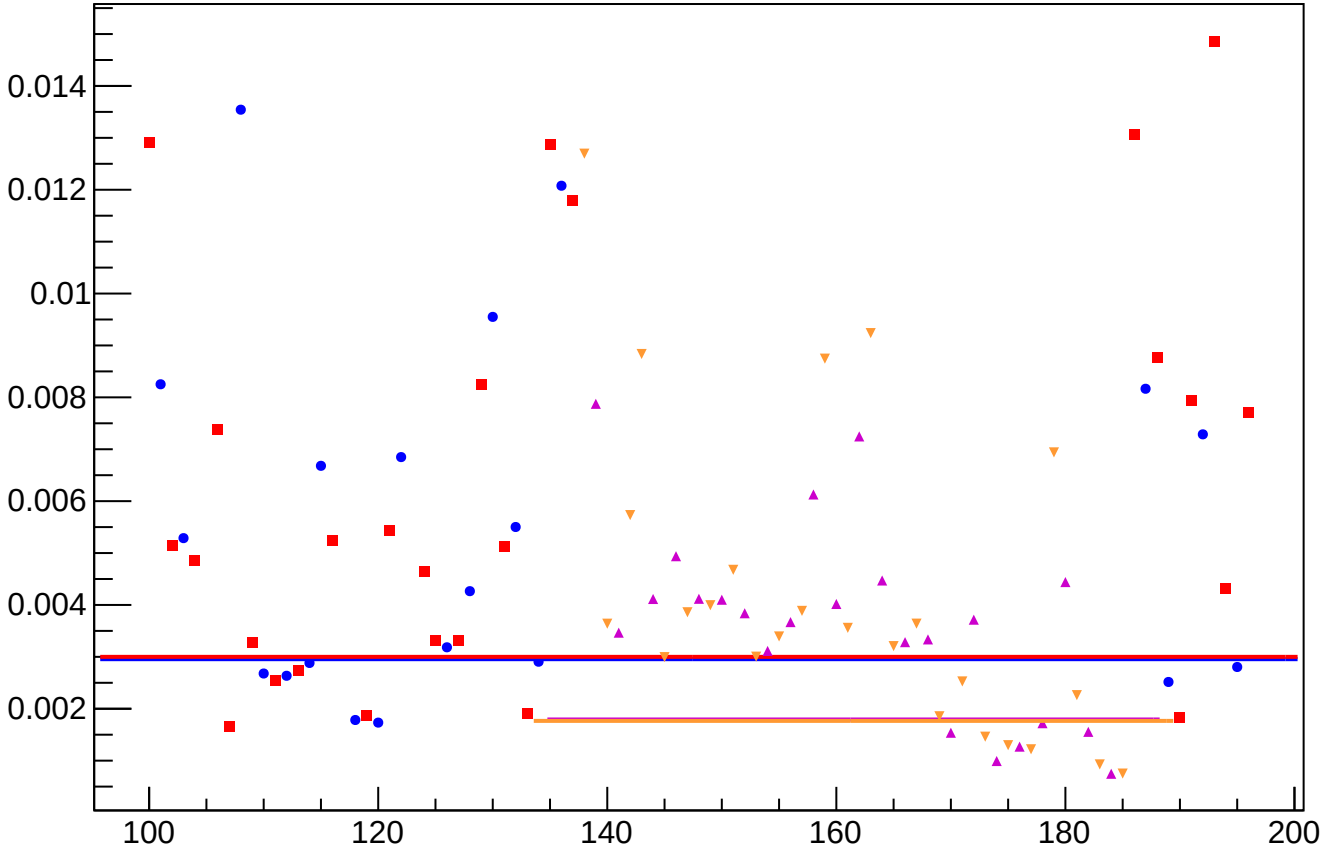
Right: -0.000+/-0.000 $\chi^2$/NDF: 55.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:51.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:58.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 110.2/93

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: 4924393.0/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:12926339.2/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6784923.1/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:10766932.4/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 23695843.2/47

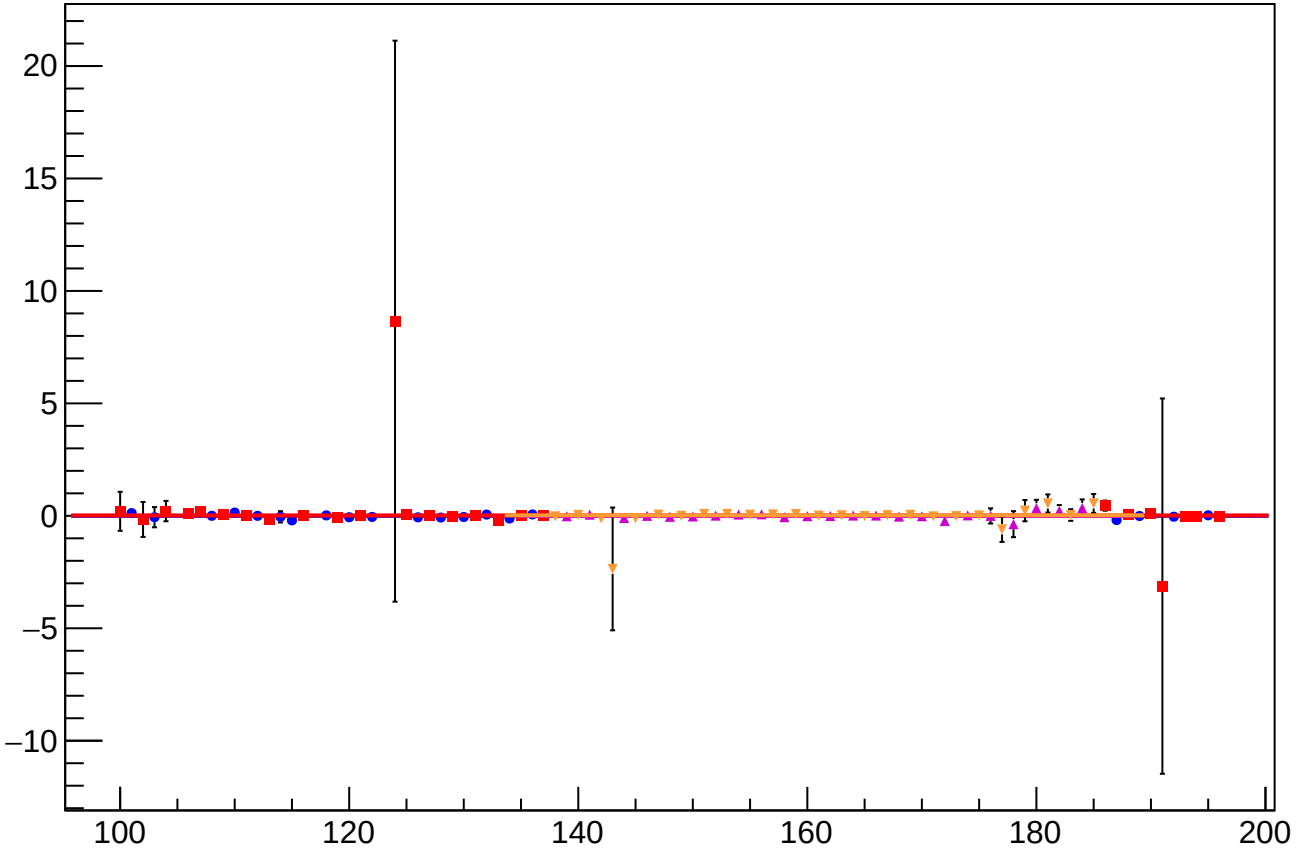
Right: 0.003+/-0.000 $\chi^2$/NDF: 11710979.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:17360619.0/42

Out: 0.002+/-0.000 $\chi^2$/NDF:21930953.3/50

All: 0.002+/-0.000 $\chi^2$/NDF: 39291637.8/93

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

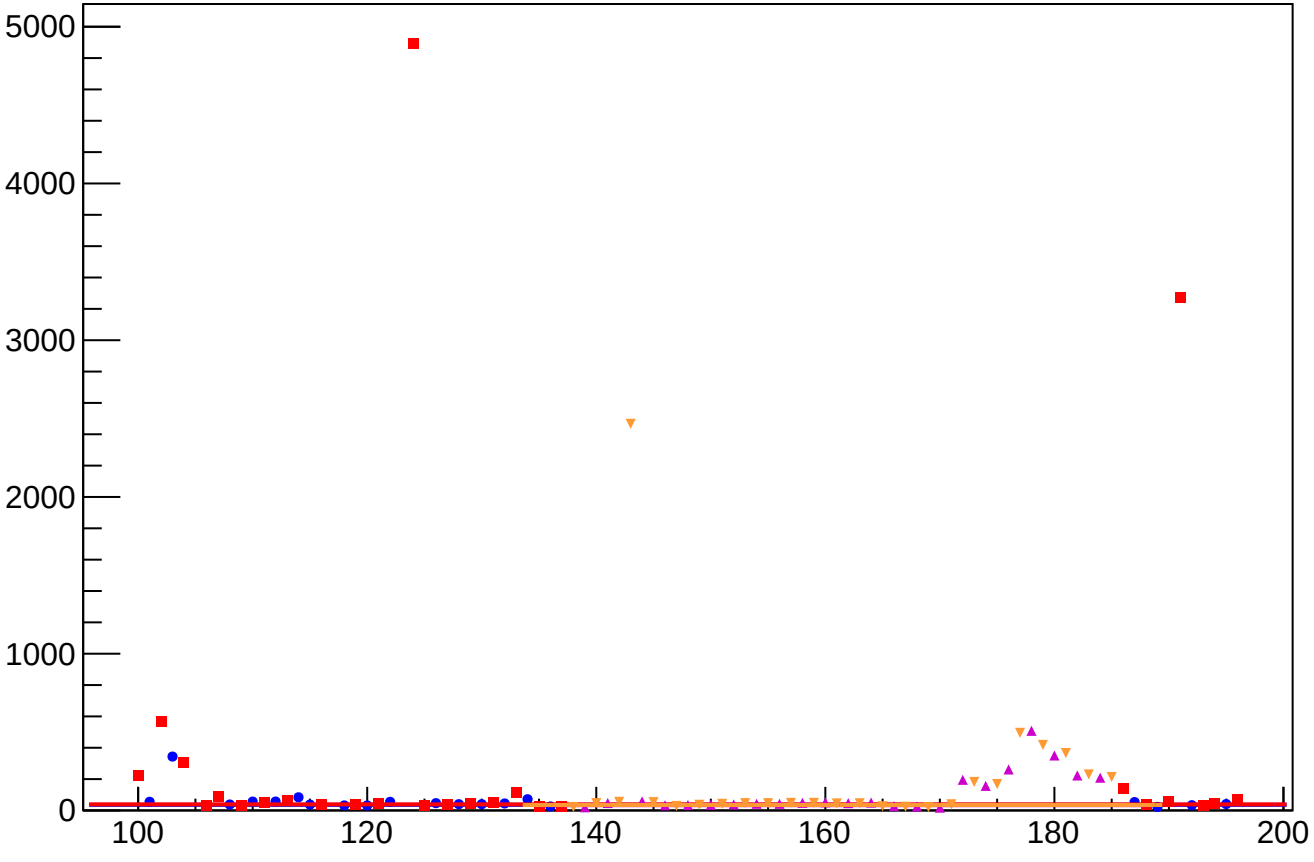
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.860+/-0.009 $\chi^2$/NDF: 2280349.8/19

Left Out: 34.623+/-0.007 $\chi^2$/NDF:11402566.2/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4393891.6/25

Left In: 33.595+/-0.007 $\chi^2$/NDF:10066196.6/22

Left: 34.095+/-0.005 $\chi^2$/NDF: 21479175.2/47

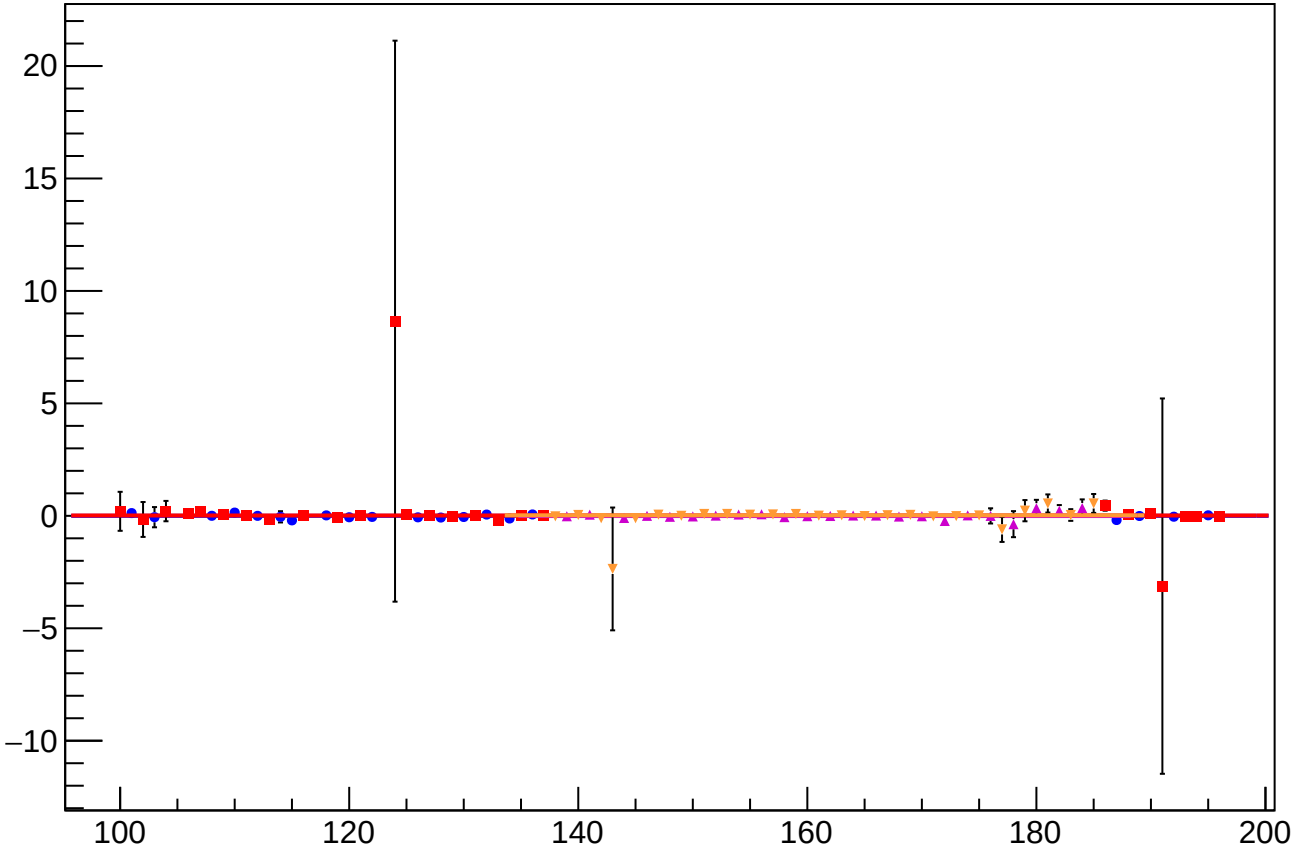
Right: 37.286+/-0.007 $\chi^2$/NDF: 6720715.1/45

In: 34.405+/-0.006 $\chi^2$/NDF:12383715.3/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915436.7/50

All: 35.245+/-0.004 $\chi^2$/NDF: 28344623.5/93

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

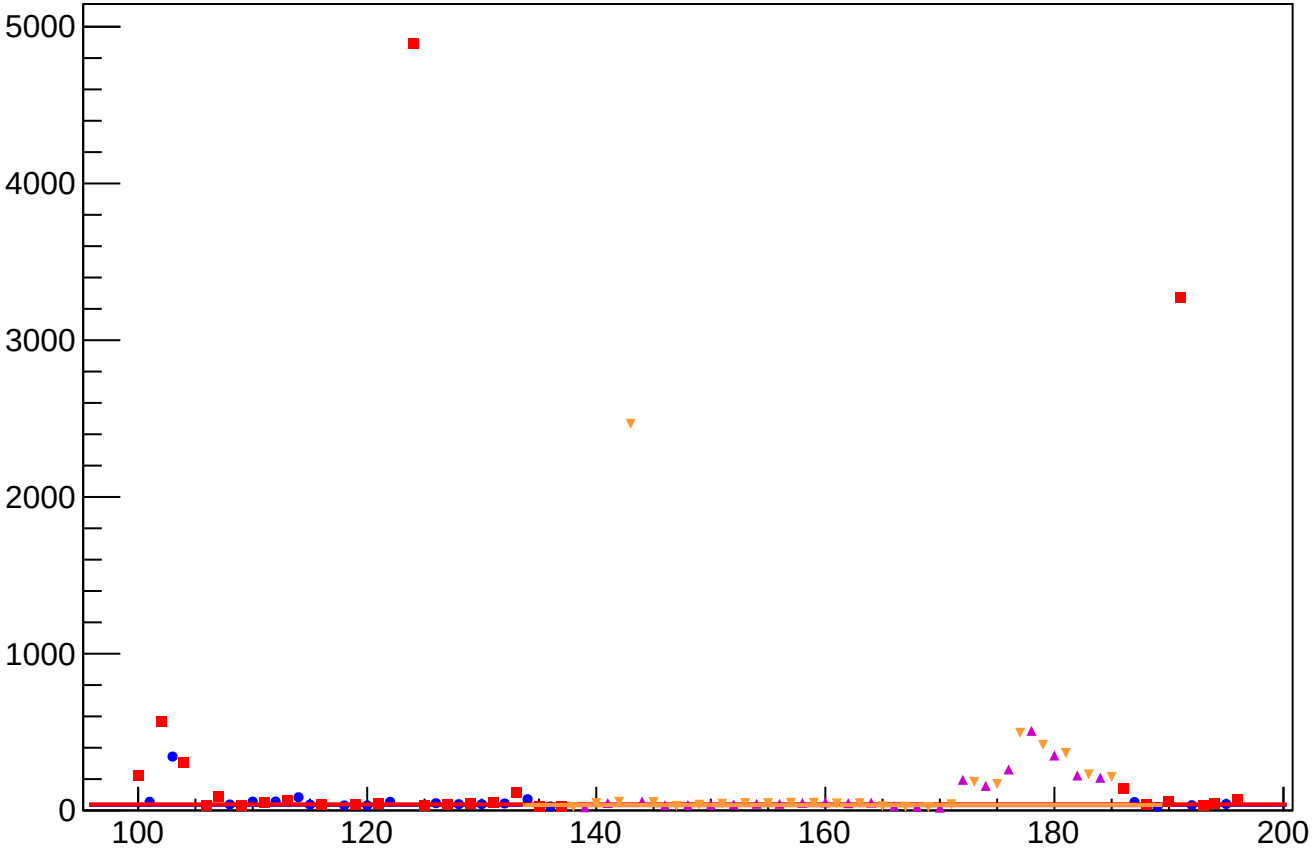
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.860+/-0.009 $\chi^2$/NDF: 2280349.8/19

Left Out: 34.623+/-0.007 $\chi^2$/NDF:11402566.2/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4393891.6/25

Left In: 33.595+/-0.007 $\chi^2$/NDF:10066196.6/22

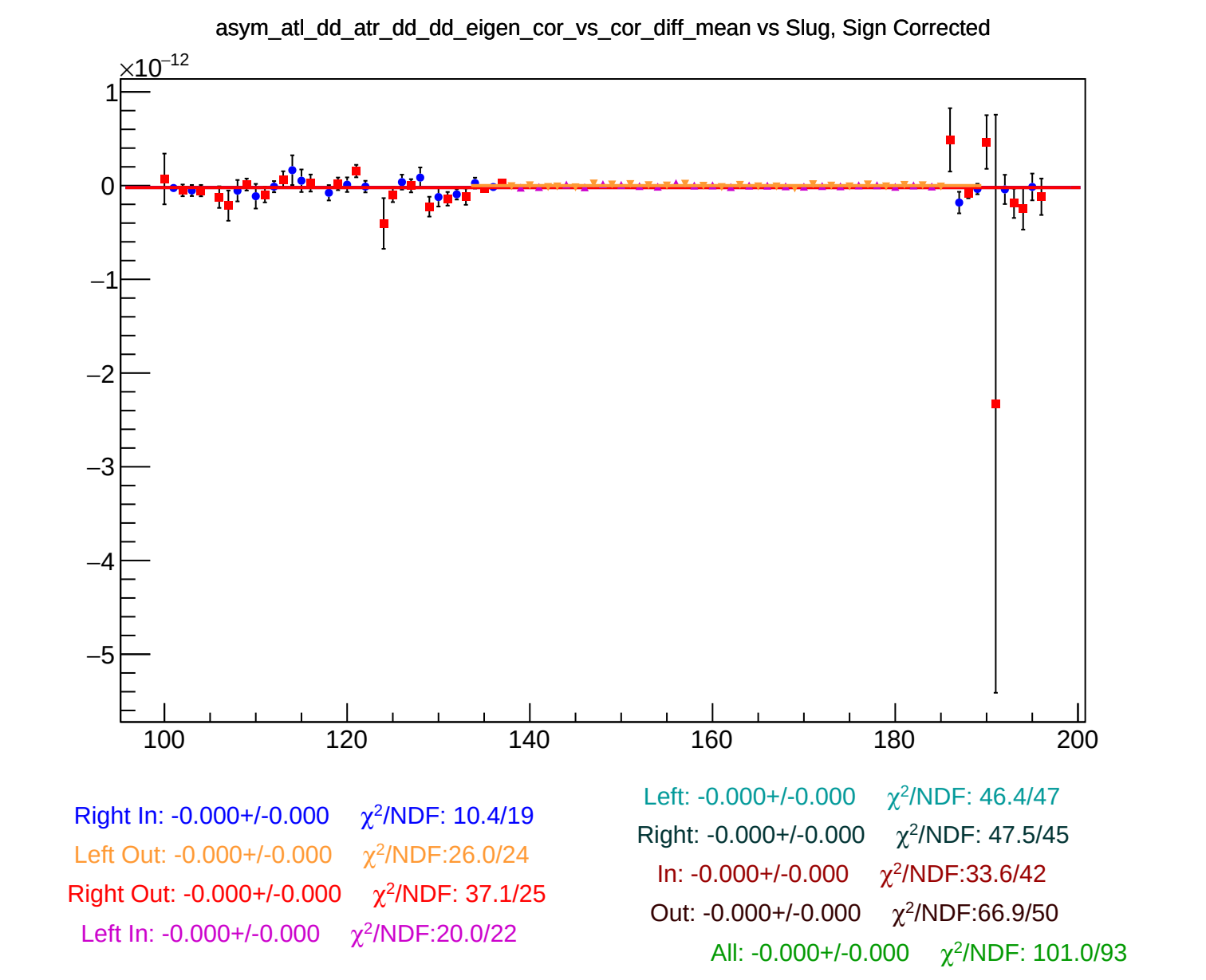
Left: 34.095+/-0.005 $\chi^2$/NDF: 21479175.2/47

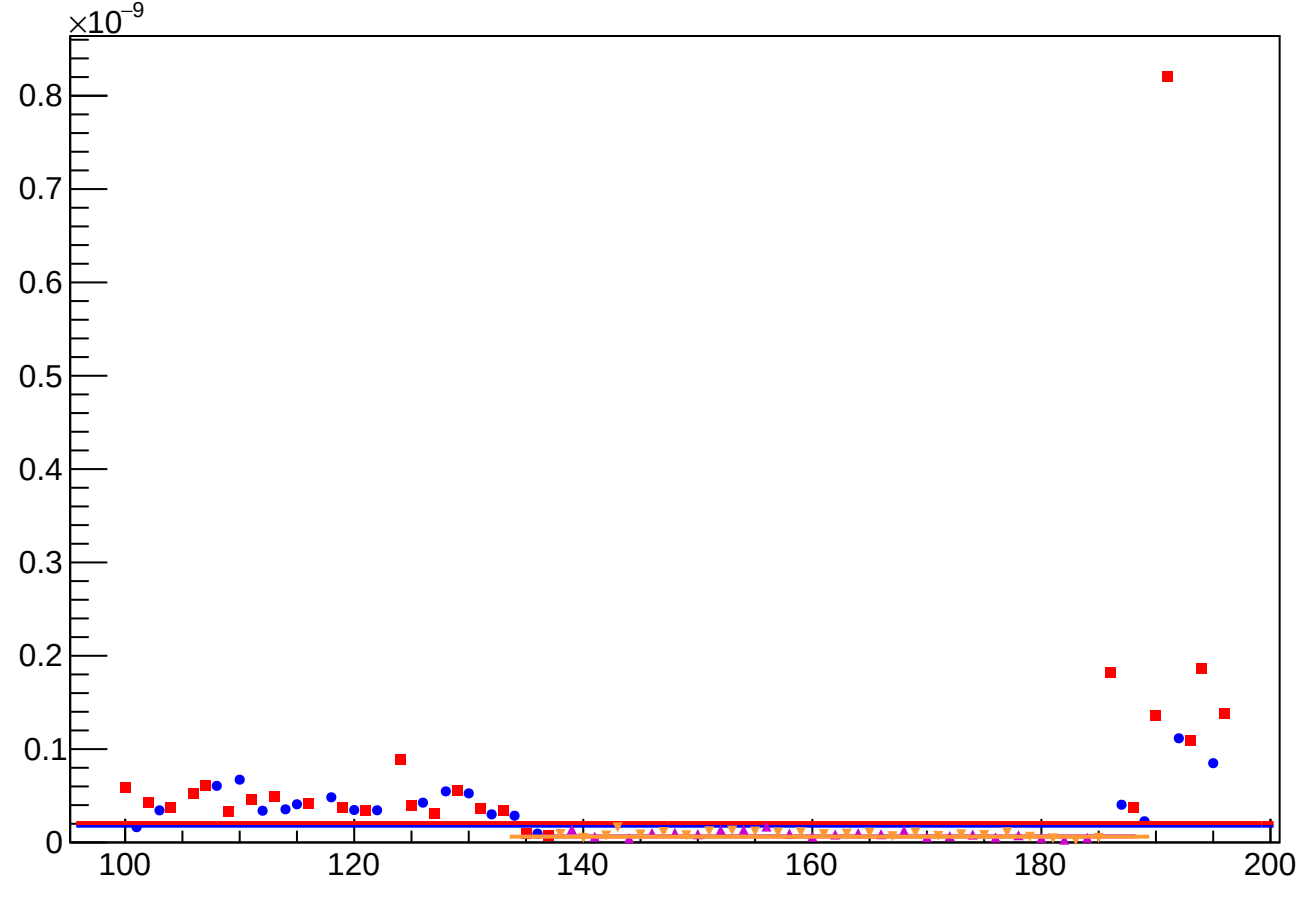
Right: 37.286+/-0.007 $\chi^2$/NDF: 6720715.1/45

In: 34.405+/-0.006 $\chi^2$/NDF:12383715.3/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915436.7/50

All: 35.245+/-0.004 $\chi^2$/NDF: 28344623.5/93


asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 10.4/19
Left Out: -0.000+/-0.000 χ²/NDF:26.0/24
Right Out: -0.000+/-0.000 χ²/NDF: 37.1/25
Left In: -0.000+/-0.000 χ²/NDF:20.0/22
Left: -0.000+/-0.000 χ²/NDF: 46.4/47
Right: -0.000+/-0.000 χ²/NDF: 47.5/45
In: -0.000+/-0.000 χ²/NDF:33.6/42
Out: -0.000+/-0.000 χ²/NDF:66.9/50
All: -0.000+/-0.000 χ²/NDF: 101.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4478406.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5077918.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7372224.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3998320.2/22

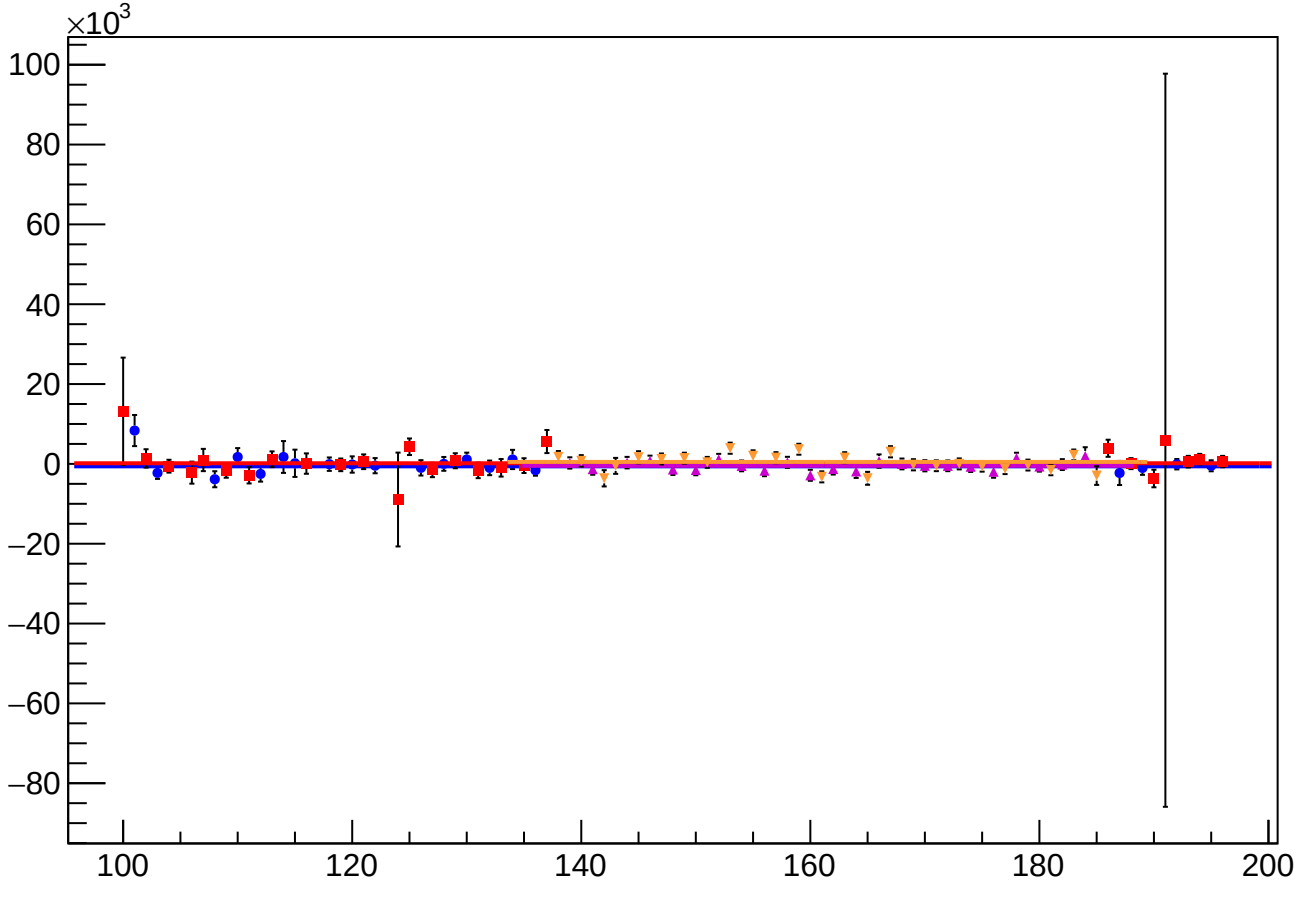
Left: 0.000+/-0.000 $\chi^2$/NDF: 9096603.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 11927917.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:11155348.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:16028856.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 27208308.8/93




Right In: -614.675+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.062+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 156.945+/-386.866 $\chi^2$/NDF: 22.9/25

Left In: -486.821+/-293.769 $\chi^2$/NDF:14.4/22

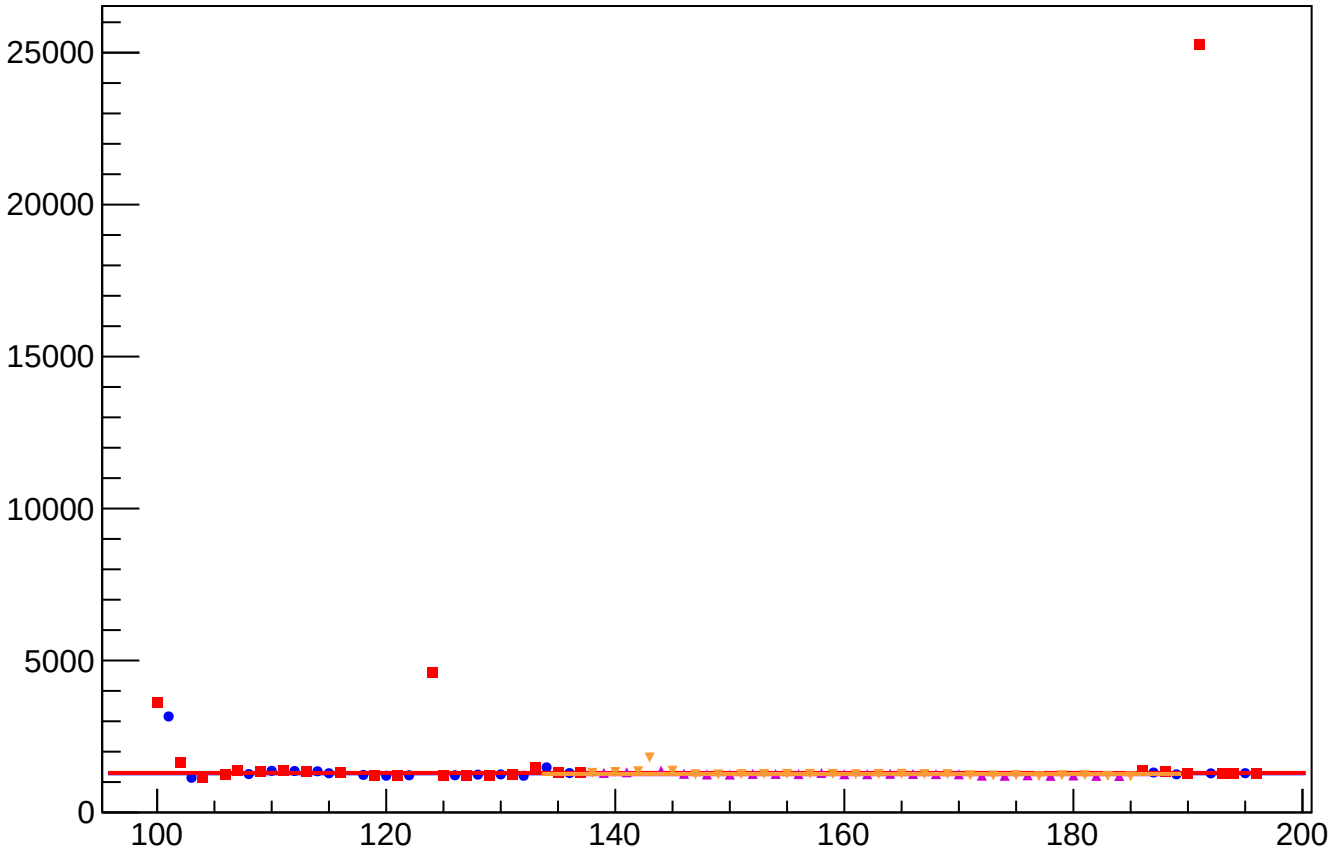
Left: 11.486+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -199.863+/-283.651 $\chi^2$/NDF: 39.2/45

In: -529.211+/-240.182 $\chi^2$/NDF:28.9/42

Out: 372.302+/-231.270 $\chi^2$/NDF:70.3/50

All: -61.418+/-166.594 $\chi^2$/NDF: 106.5/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515618.9/19

Left Out: 1266.967+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1300.693+/-0.273 $\chi^2$/NDF: 465812.9/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.4/22

Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

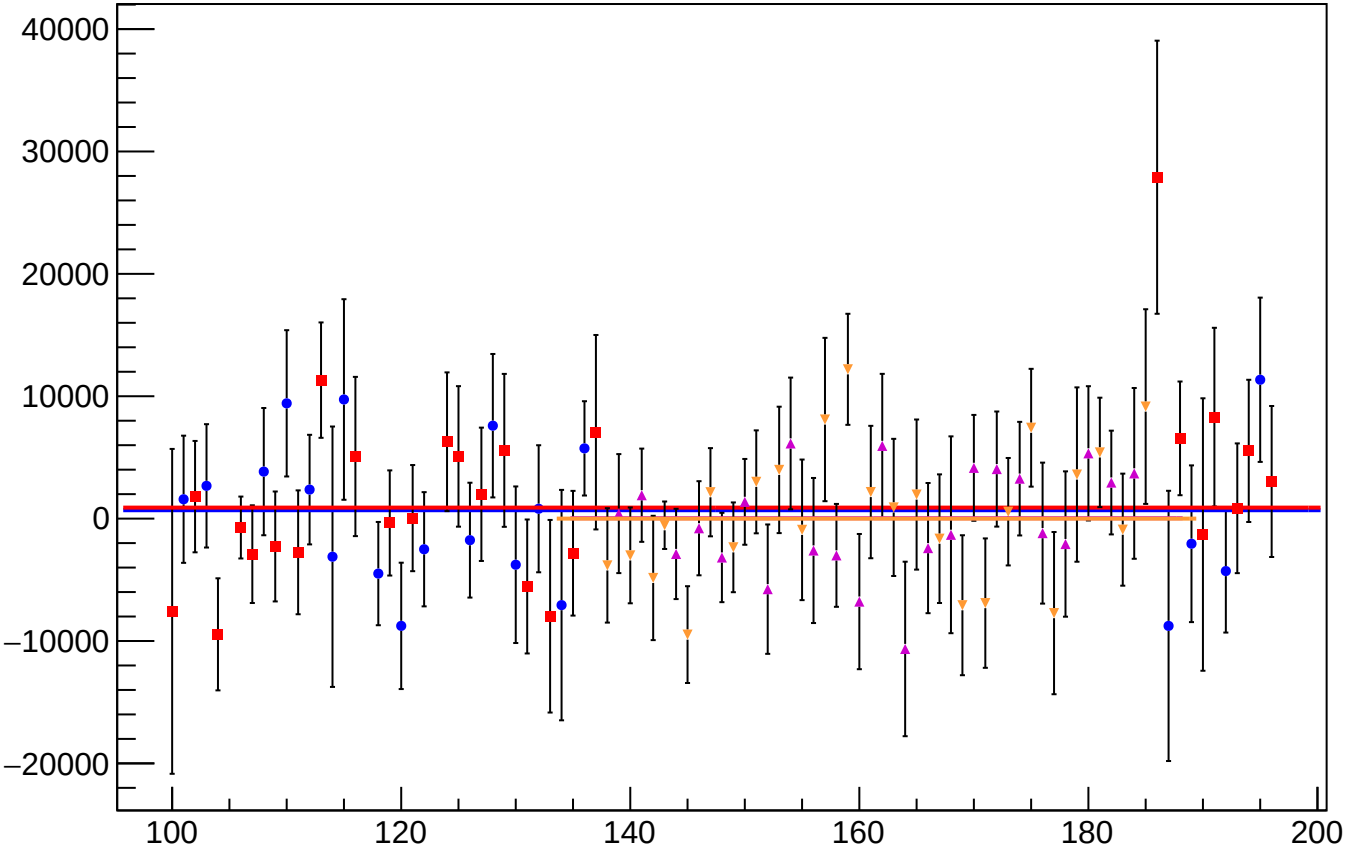
Right: 1294.723+/-0.200 $\chi^2$/NDF: 982467.2/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559446.7/42

Out: 1279.046+/-0.163 $\chi^2$/NDF:663146.9/50

All: 1273.526+/-0.118 $\chi^2$/NDF: 1224965.3/93

asym_at1_avg_at2_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 686.766+/-1227.454 $\chi^2$/NDF: 18.5/19

Left Out: -0.604+/-886.488 $\chi^2$/NDF:29.1/24

Right Out: 899.769+/-1008.735 $\chi^2$/NDF: 28.3/25

Left In: 31.593+/-995.348 $\chi^2$/NDF:14.0/22

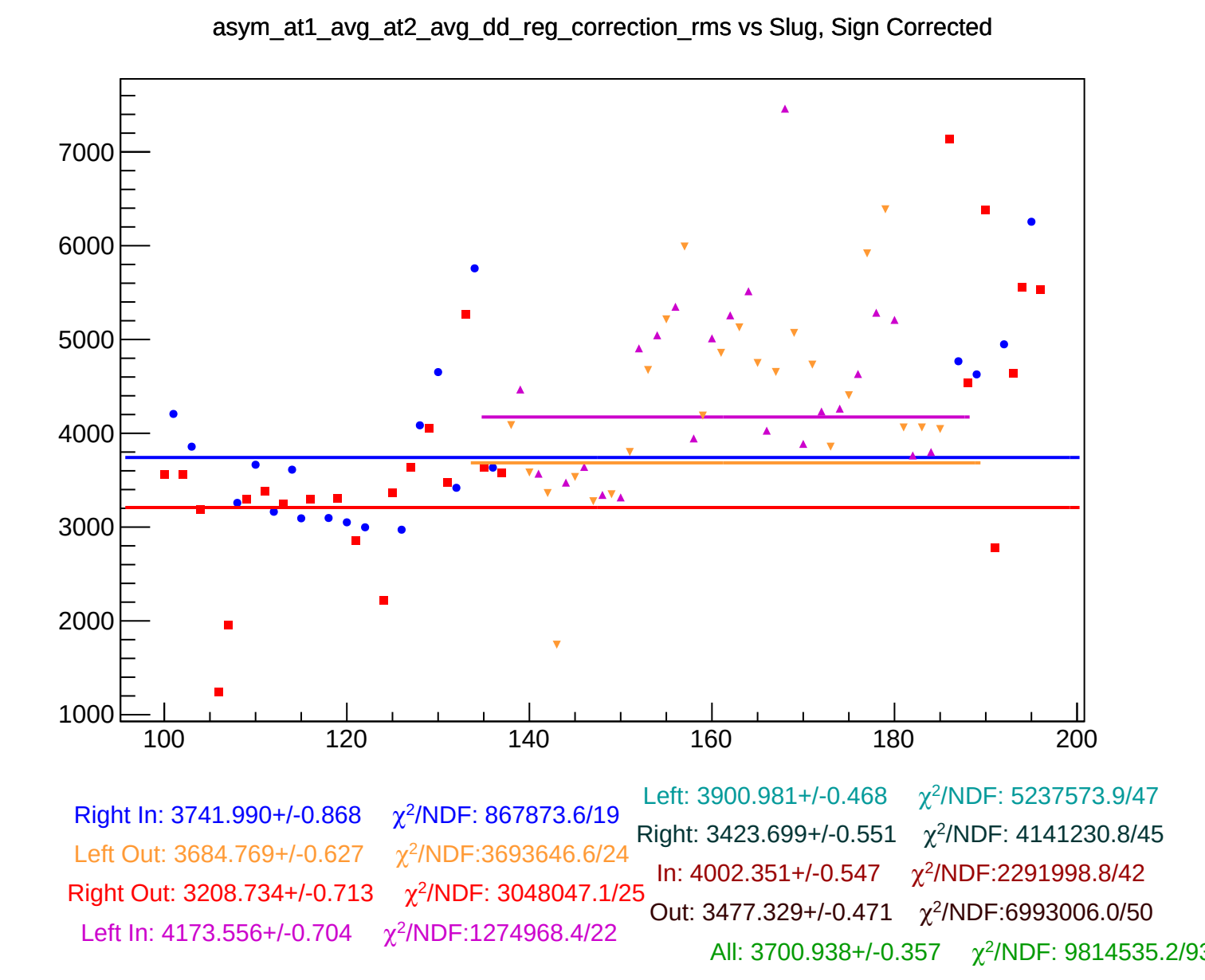
Left: 13.638+/-661.996 $\chi^2$/NDF: 43.1/47

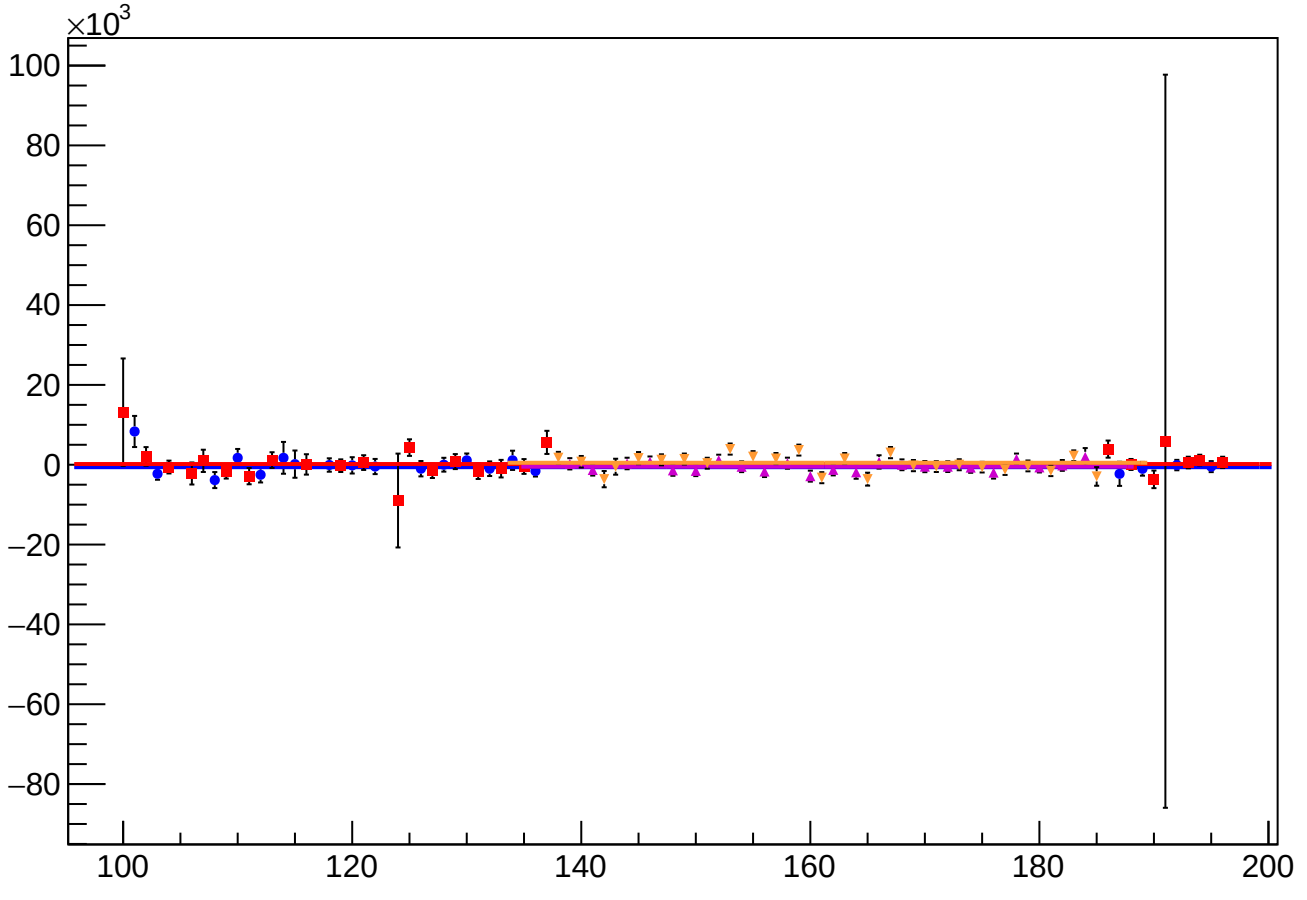
Right: 813.903+/-779.330 $\chi^2$/NDF: 46.8/45

In: 291.504+/-773.107 $\chi^2$/NDF:32.7/42

Out: 391.747+/-665.891 $\chi^2$/NDF:57.8/50

All: 349.053+/-504.540 $\chi^2$/NDF: 90.5/93


asym_at1_avg_at2_avg_dd_reg_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 3741.990+/-0.868 χ²/NDF: 867873.6/19
Left Out: 3684.769+/-0.627 χ²/NDF:3693646.6/24
Right Out: 3208.734+/-0.713 χ²/NDF: 3048047.1/25
Left In: 4173.556+/-0.704 χ²/NDF:1274968.4/22
Left: 3900.981+/-0.468 χ²/NDF: 5237573.9/47
Right: 3423.699+/-0.551 χ²/NDF: 4141230.8/45
In: 4002.351+/-0.547 χ²/NDF:2291998.8/42
Out: 3477.329+/-0.471 χ²/NDF:6993006.0/50
All: 3700.938+/-0.357 χ²/NDF: 9814535.2/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

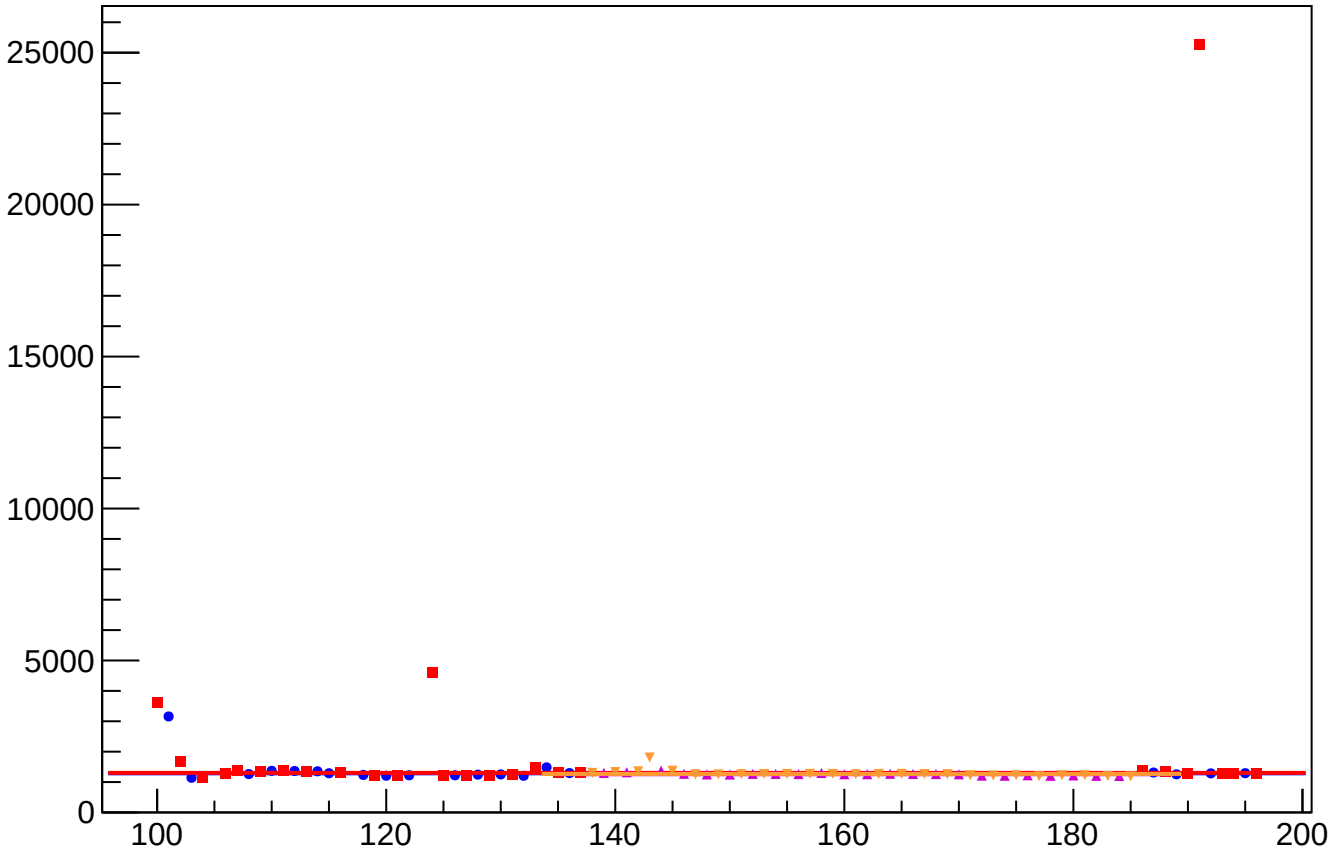
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

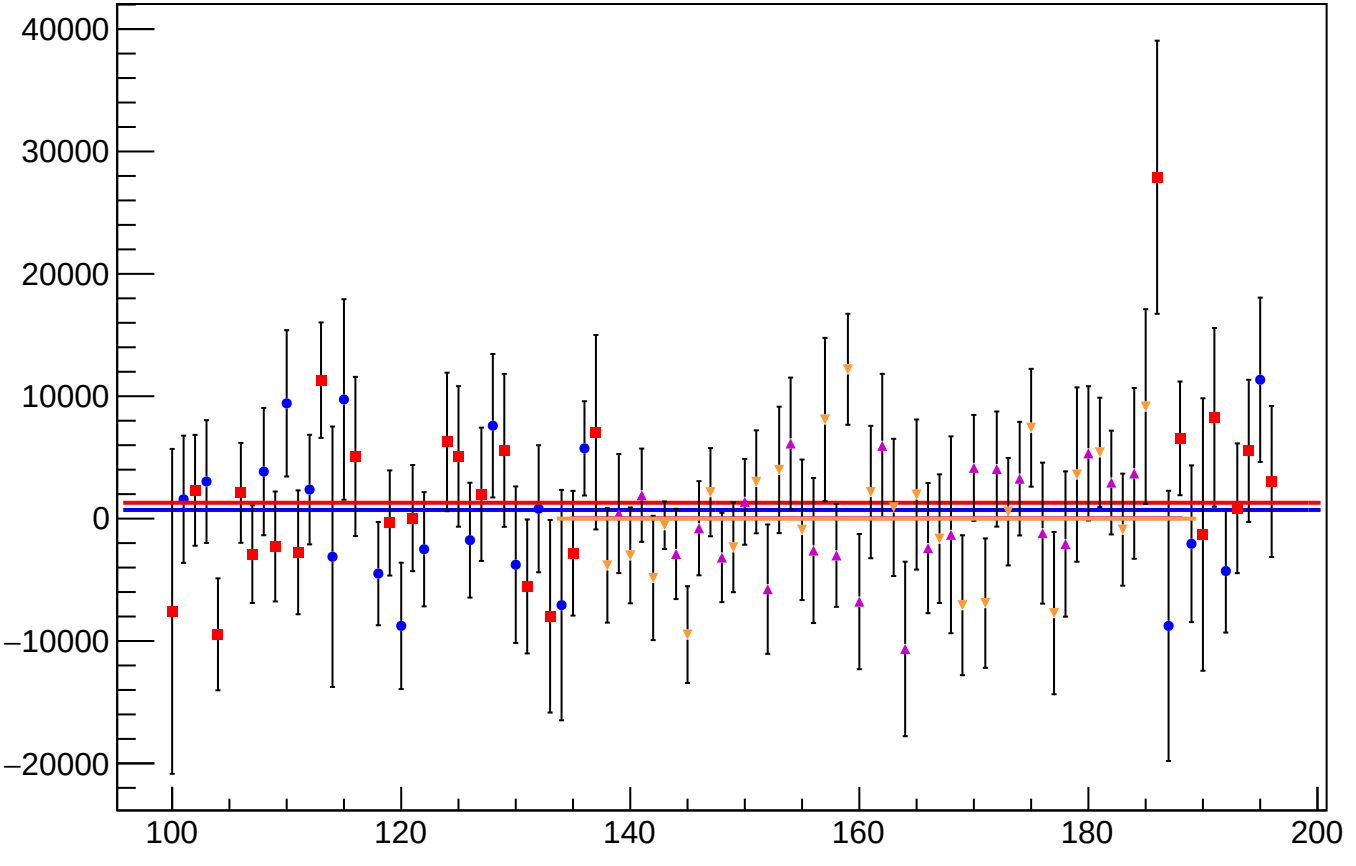
Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93

asym_at1_avg_at2_avg_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 708.951+/-1227.092 $\chi^2$/NDF: 18.5/19

Left Out: -0.541+/-886.487 $\chi^2$/NDF:29.1/24

Right Out: 1295.913+/-1061.753 $\chi^2$/NDF: 27.9/25

Left In: 31.597+/-995.347 $\chi^2$/NDF:14.0/22

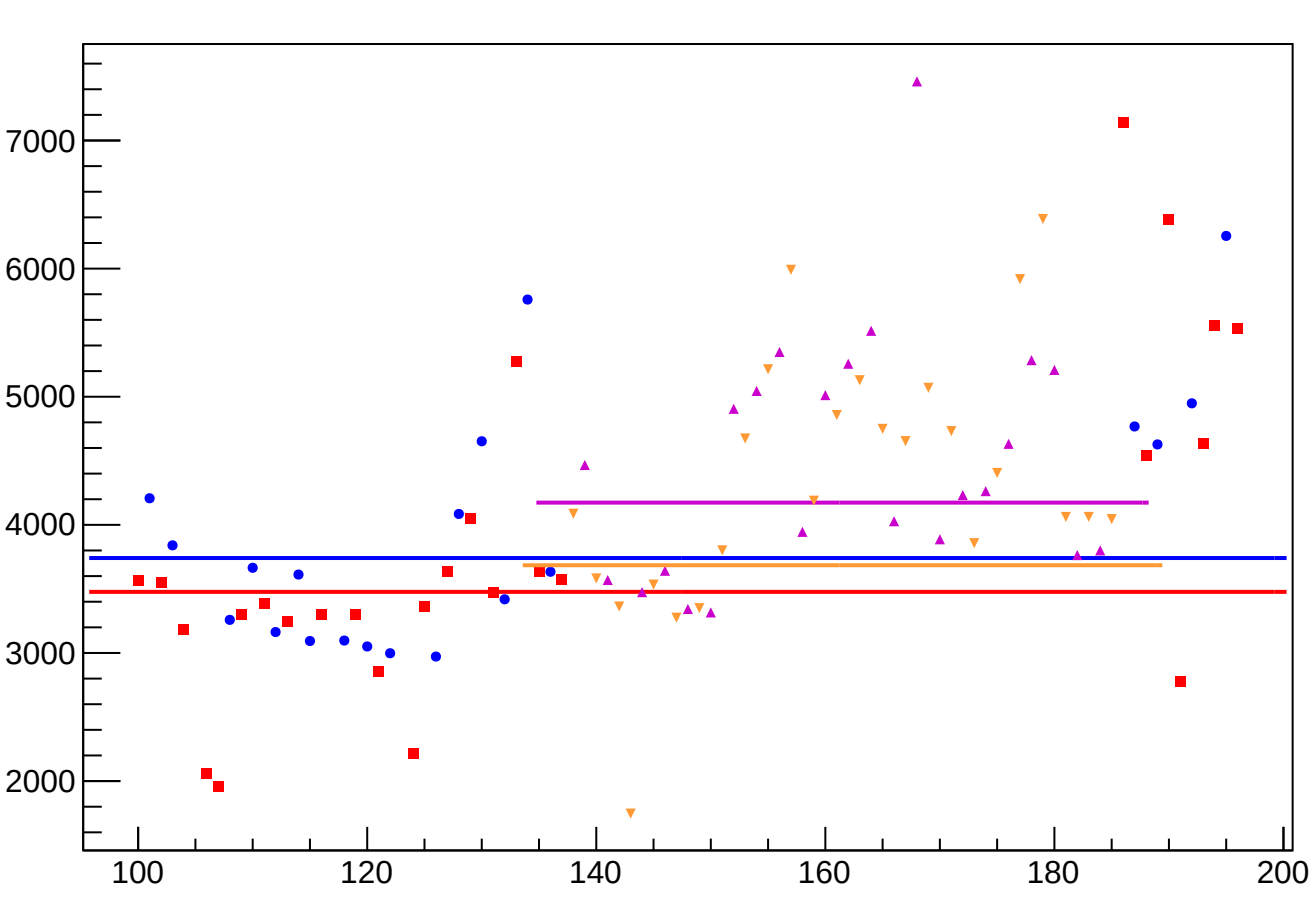
Left: 13.675+/-661.996 $\chi^2$/NDF: 43.1/47

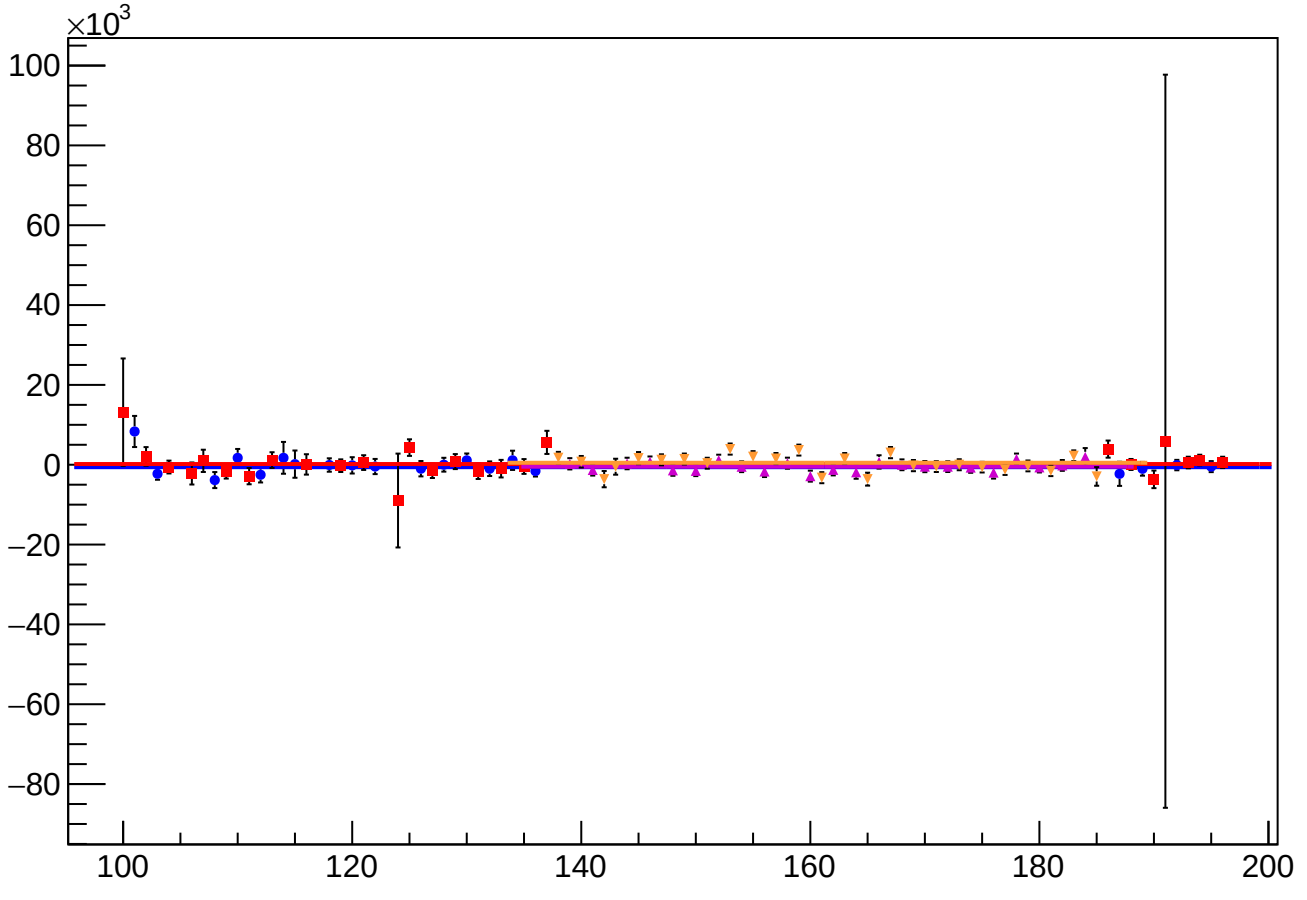
Right: 1044.612+/-802.914 $\chi^2$/NDF: 46.6/45

In: 300.403+/-773.016 $\chi^2$/NDF:32.7/42

Out: 531.992+/-680.484 $\chi^2$/NDF:57.8/50

All: 430.881+/-510.773 $\chi^2$/NDF: 90.6/93


asym_at1_avg_at2_avg_dd_cor_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 3741.069+/-0.868 χ²/NDF: 867662.3/19
Left Out: 3684.762+/-0.627 χ²/NDF:3693687.2/24
Right Out: 3476.932+/-0.751 χ²/NDF: 1868011.4/25
Left In: 4173.550+/-0.704 χ²/NDF:1274967.5/22
Left: 3900.975+/-0.468 χ²/NDF: 5237615.0/47
Right: 3590.019+/-0.568 χ²/NDF: 2788667.8/45
In: 4001.921+/-0.547 χ²/NDF:2292473.4/42
Out: 3599.393+/-0.481 χ²/NDF:5606852.2/50
All: 3775.135+/-0.361 χ²/NDF: 8204864.4/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

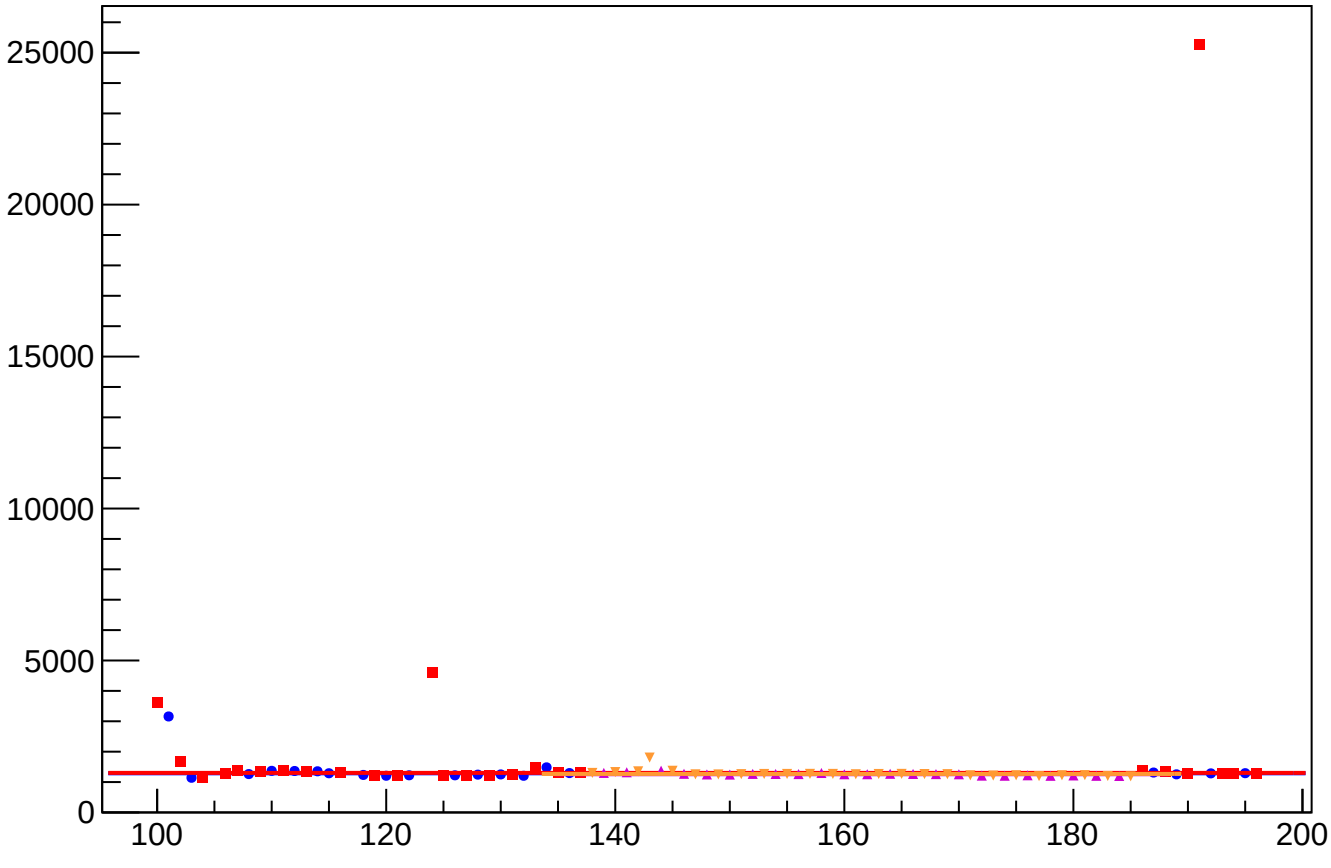
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

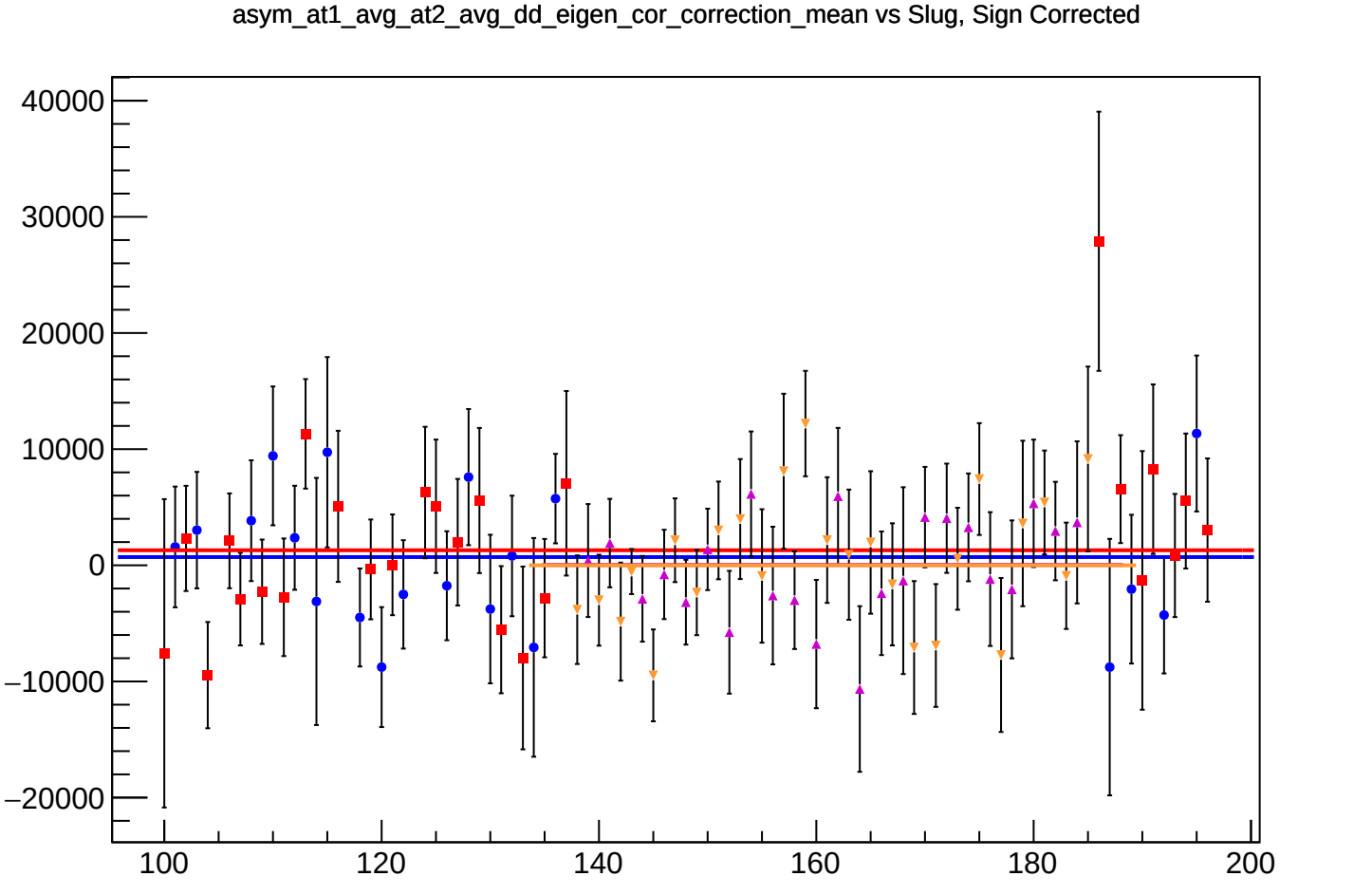
Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

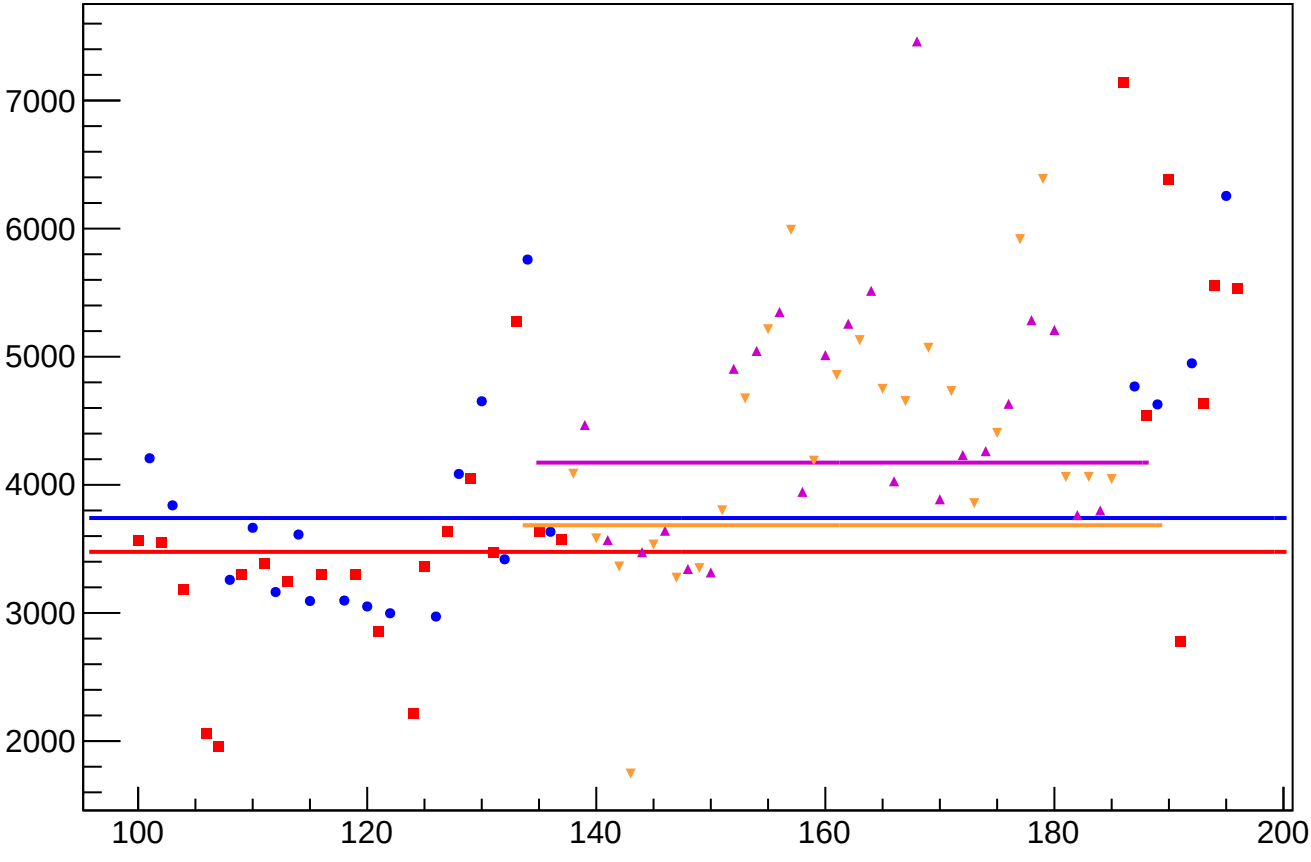
In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93


asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 708.951+/-1227.092 χ²/NDF: 18.5/19
Left Out: -0.541+/-886.487 χ²/NDF:29.1/24
Right Out: 1295.913+/-1061.753 χ²/NDF: 27.9/25
Left In: 31.597+/-995.347 χ²/NDF:14.0/22
Left: 13.675+/-661.996 χ²/NDF: 43.1/47
Right: 1044.612+/-802.914 χ²/NDF: 46.6/45
In: 300.403+/-773.016 χ²/NDF:32.7/42
Out: 531.992+/-680.484 χ²/NDF:57.8/50
All: 430.881+/-510.773 χ²/NDF: 90.6/93

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3741.069+/-0.868 $\chi^2$/NDF: 867662.3/19

Left Out: 3684.762+/-0.627 $\chi^2$/NDF:3693687.2/24

Right Out: 3476.932+/-0.751 $\chi^2$/NDF: 1868011.4/25

Left In: 4173.550+/-0.704 $\chi^2$/NDF:1274967.5/22

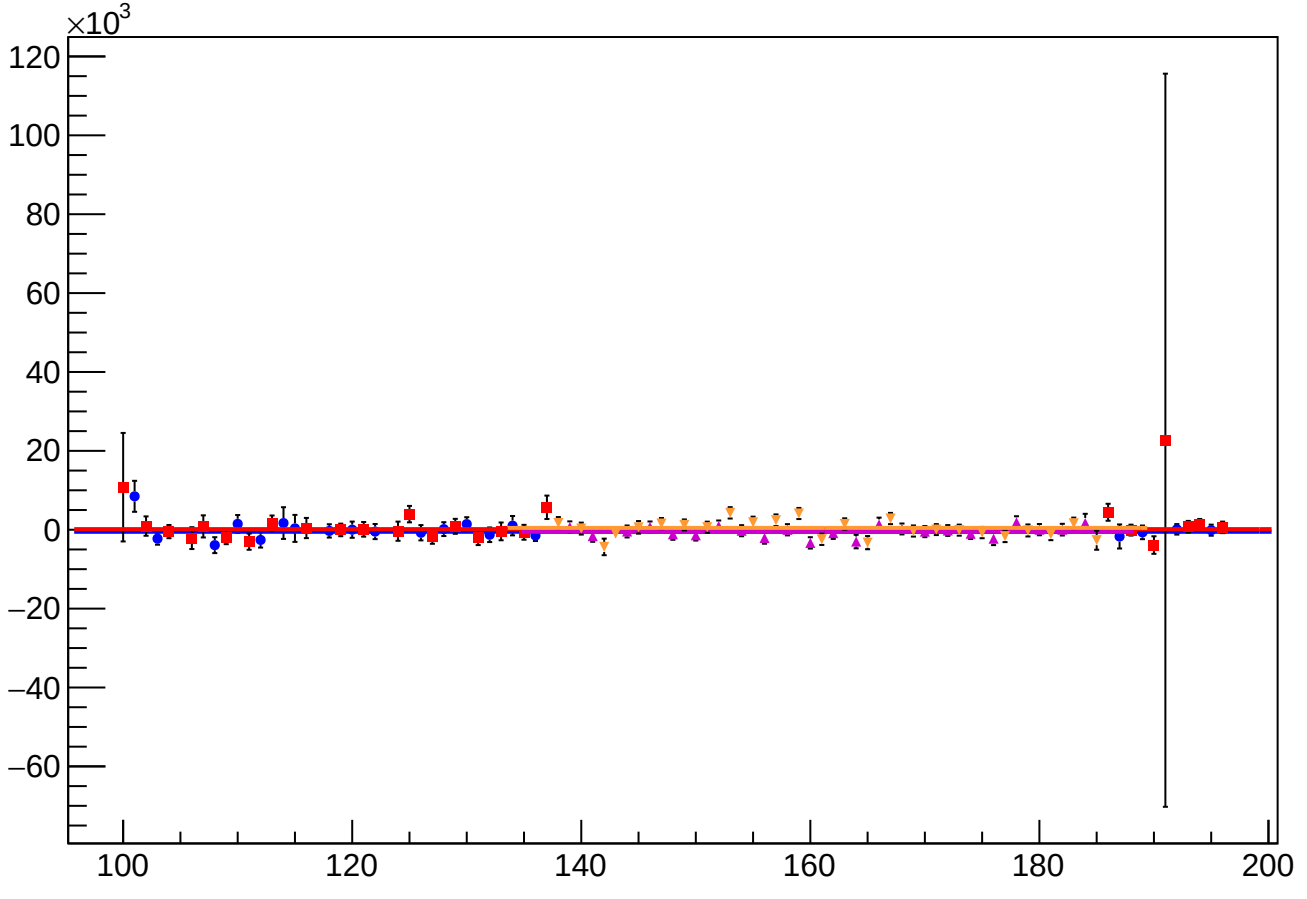
Left: 3900.975+/-0.468 $\chi^2$/NDF: 5237615.0/47

Right: 3590.019+/-0.568 $\chi^2$/NDF: 2788667.8/45

In: 4001.921+/-0.547 $\chi^2$/NDF:2292473.4/42

Out: 3599.393+/-0.481 $\chi^2$/NDF:5606852.2/50

All: 3775.135+/-0.361 $\chi^2$/NDF: 8204864.4/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.929+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.863+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.055 $\chi^2$/NDF:17.4/22

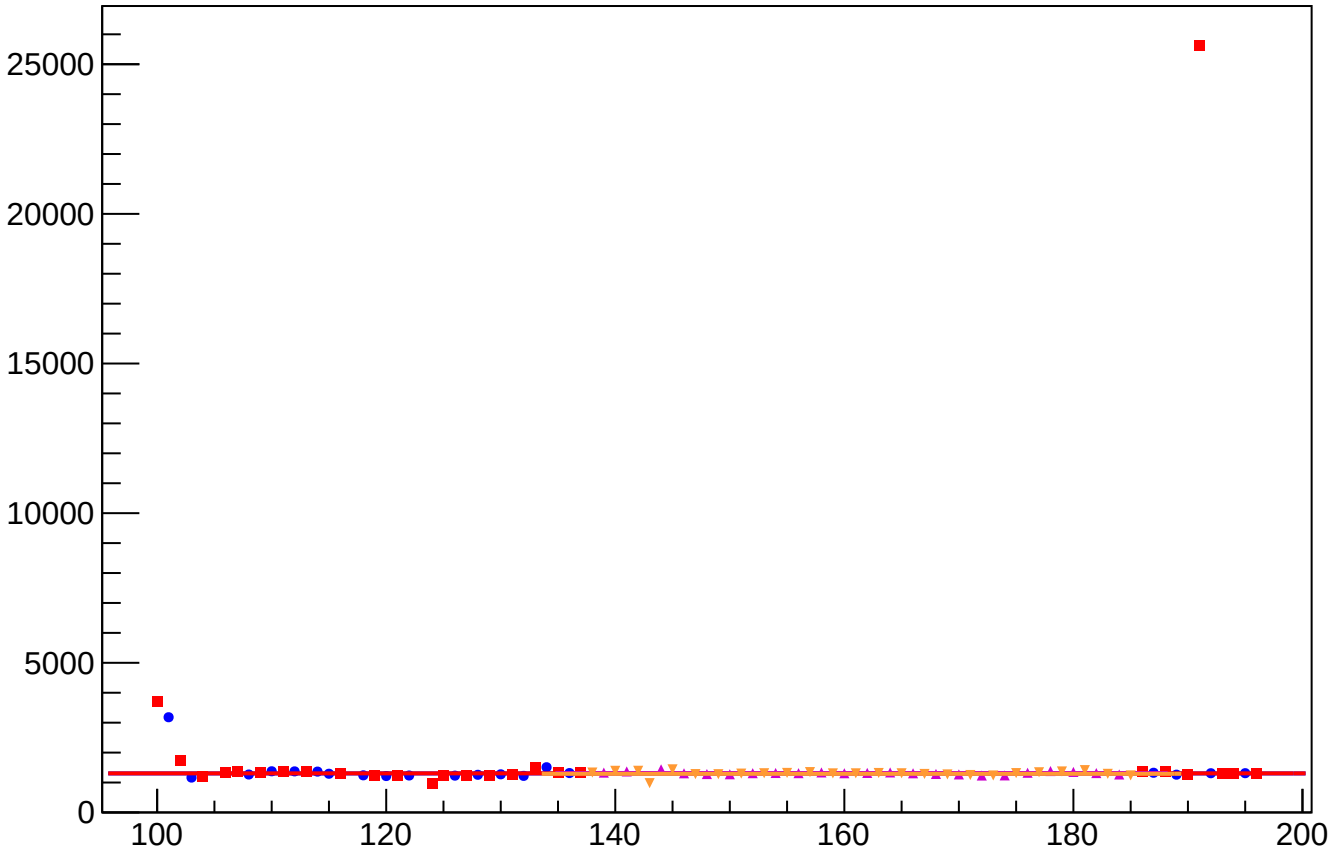
Left: 2.853+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.588+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.625+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.209+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.823+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511957.8/19

Left Out: 1291.211+/-0.208 $\chi^2$/NDF:230735.1/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.7/25

Left In: 1314.006+/-0.217 $\chi^2$/NDF:43044.7/22

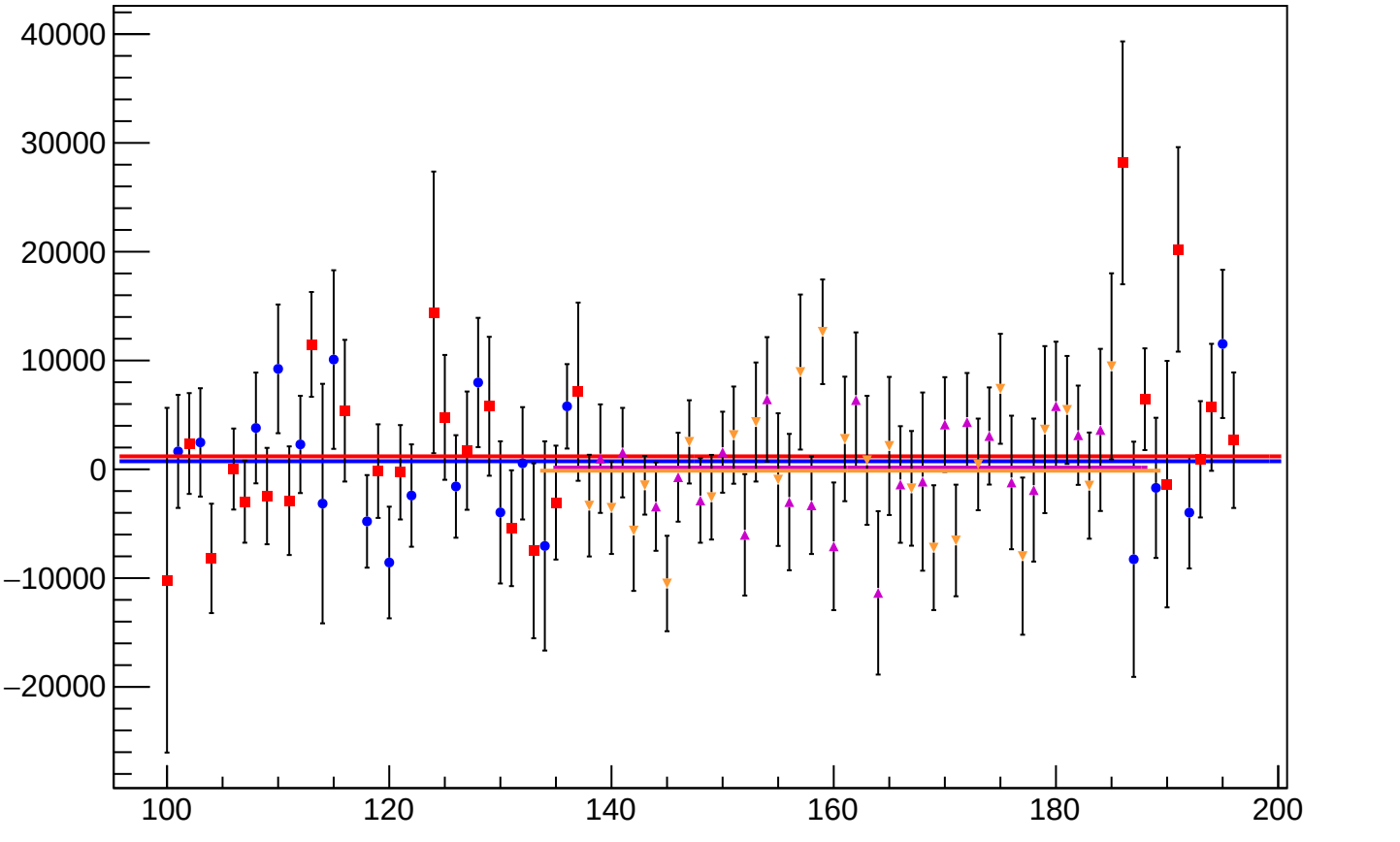
Left: 1302.123+/-0.150 $\chi^2$/NDF: 279525.5/47

Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.3/45

In: 1310.353+/-0.176 $\chi^2$/NDF:555820.5/42

Out: 1296.795+/-0.166 $\chi^2$/NDF:592951.9/50

All: 1303.181+/-0.121 $\chi^2$/NDF: 1151926.1/93




Right In: 738.920+/-1231.226 $\chi^2$/NDF: 18.3/19

Left Out: -127.273+/-977.231 $\chi^2$/NDF:28.6/24

Right Out: 1191.530+/-1079.945 $\chi^2$/NDF: 29.7/25

Left In: 159.452+/-1045.510 $\chi^2$/NDF:13.8/22

Left: 6.422+/-713.925 $\chi^2$/NDF: 42.4/47

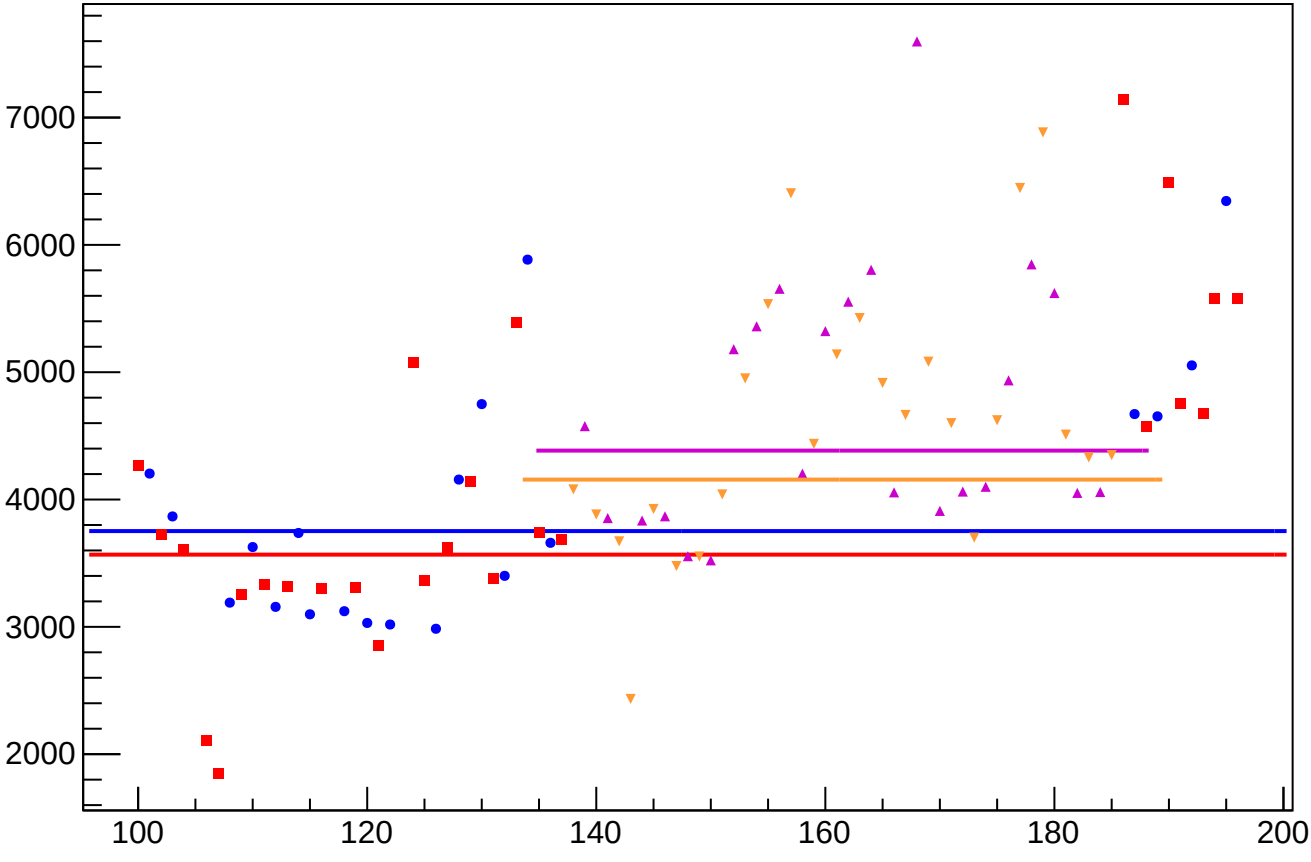
Right: 994.725+/-811.884 $\chi^2$/NDF: 48.1/45

In: 402.231+/-796.944 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.605 $\chi^2$/NDF:59.1/50

All: 437.384+/-536.128 $\chi^2$/NDF: 91.3/93

asym_at1_avg_at2_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3752.245+/-0.871 $\chi^2$/NDF: 910787.1/19

Left Out: 4156.582+/-0.691 $\chi^2$/NDF:2080766.1/24

Right Out: 3567.226+/-0.764 $\chi^2$/NDF: 1961452.3/25

Left In: 4384.323+/-0.739 $\chi^2$/NDF:1255470.8/22

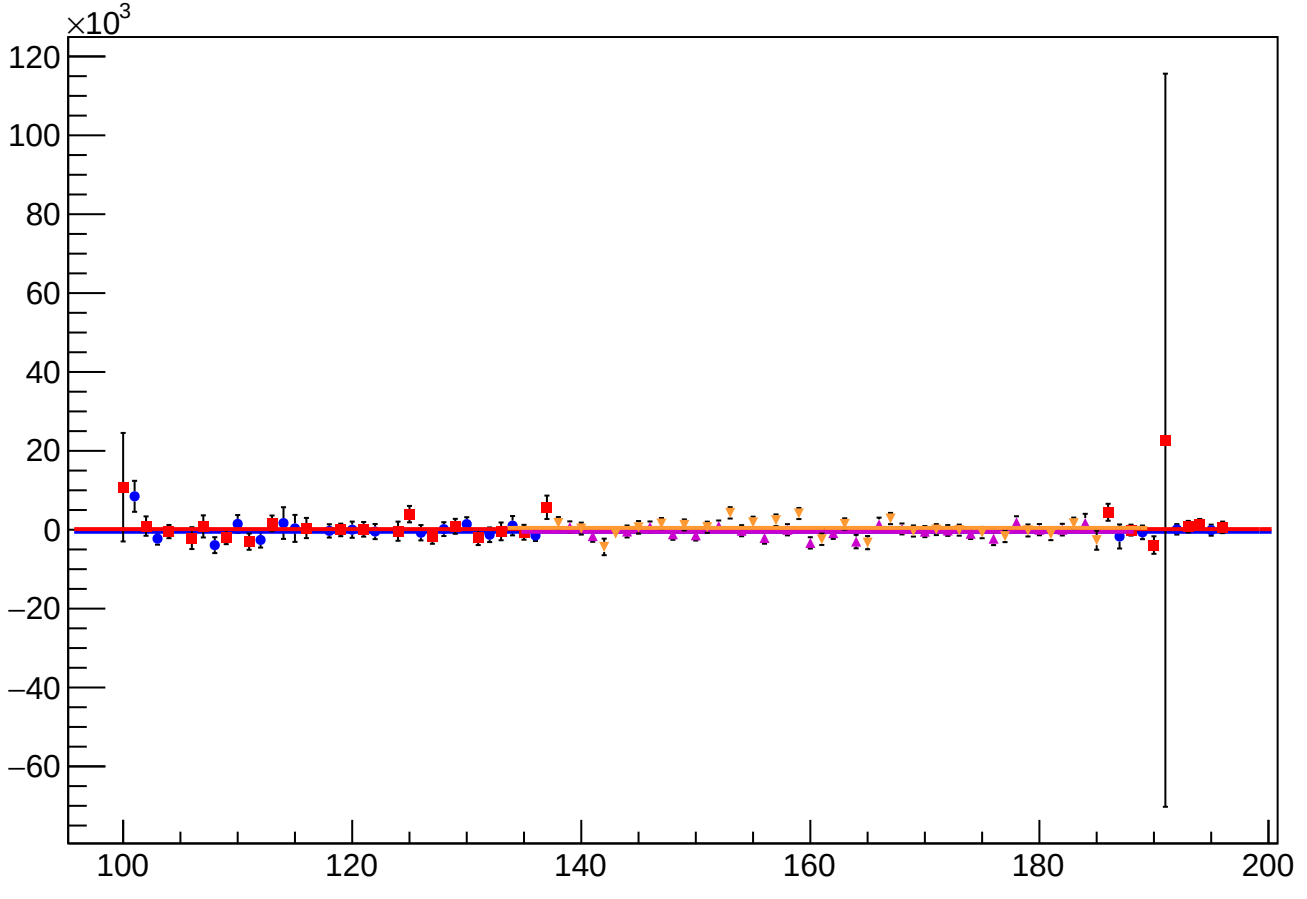
Left: 4262.773+/-0.505 $\chi^2$/NDF: 3386885.6/47

Right: 3647.676+/-0.574 $\chi^2$/NDF: 2897764.7/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472522.0/42

Out: 3891.257+/-0.512 $\chi^2$/NDF:4369703.1/50

All: 3994.553+/-0.379 $\chi^2$/NDF: 6932032.2/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.933+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.858+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.056 $\chi^2$/NDF:17.4/22

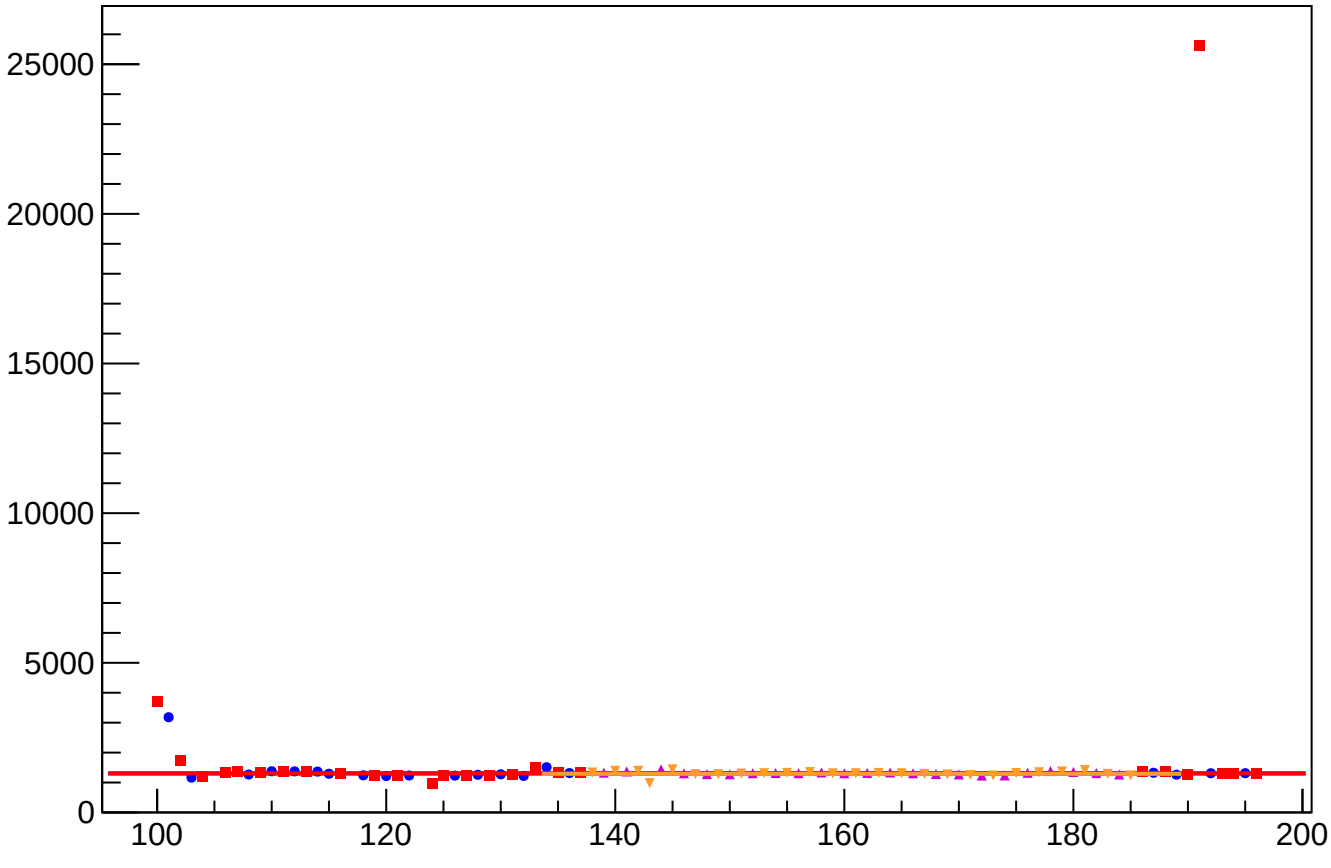
Left: 2.855+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.591+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.626+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.210+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.822+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511958.0/19

Left Out: 1291.212+/-0.208 $\chi^2$/NDF:230737.6/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.8/25

Left In: 1314.007+/-0.217 $\chi^2$/NDF:43046.8/22

Left: 1302.125+/-0.150 $\chi^2$/NDF: 279530.2/47

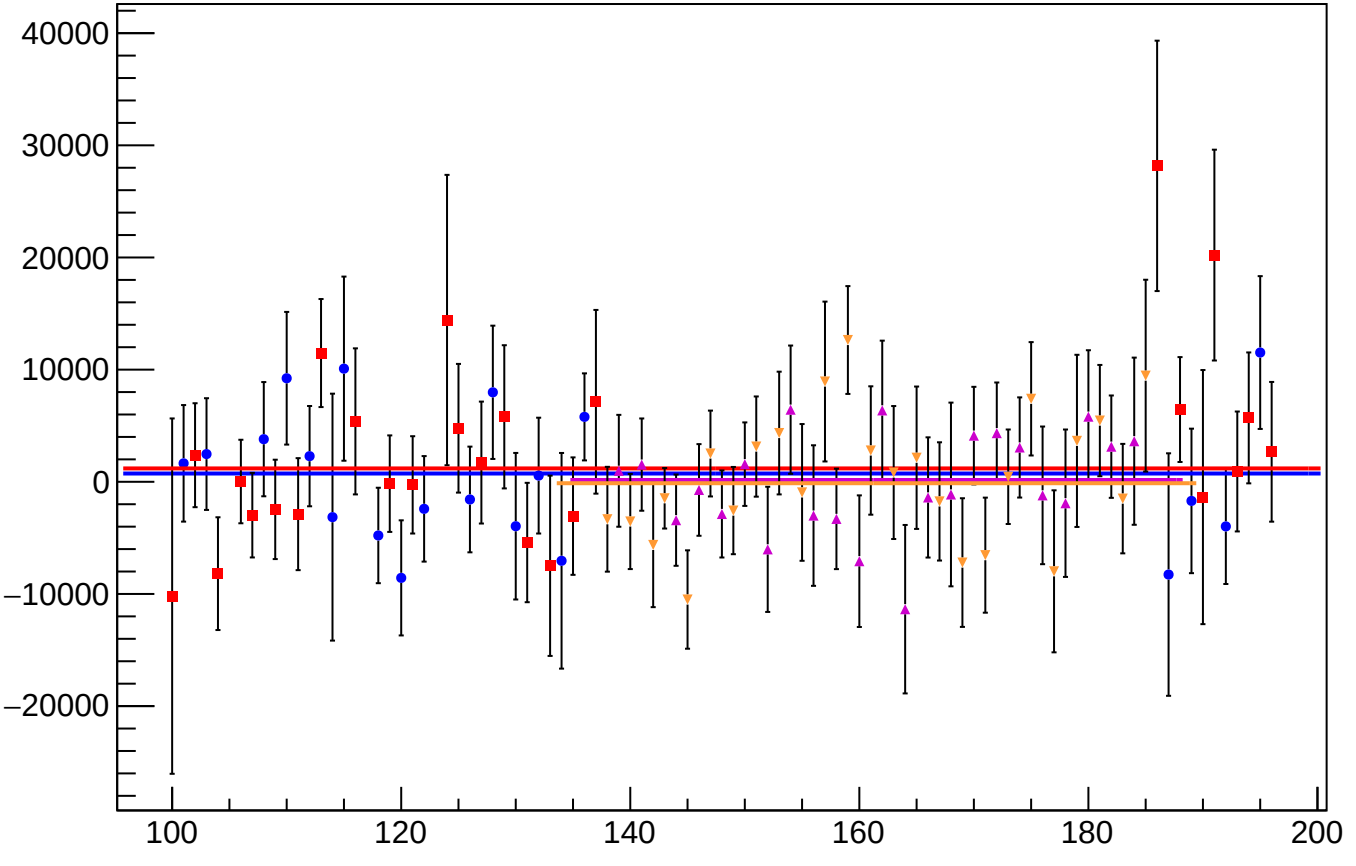
Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.6/45

In: 1310.354+/-0.176 $\chi^2$/NDF:555823.1/42

Out: 1296.796+/-0.166 $\chi^2$/NDF:592954.1/50

All: 1303.182+/-0.121 $\chi^2$/NDF: 1151930.9/93

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 738.910+/-1231.223 $\chi^2$/NDF: 18.3/19

Left Out: -127.271+/-977.232 $\chi^2$/NDF:28.6/24

Right Out: 1191.522+/-1079.943 $\chi^2$/NDF: 29.7/25

Left In: 159.454+/-1045.511 $\chi^2$/NDF:13.8/22

Left: 6.424+/-713.926 $\chi^2$/NDF: 42.4/47

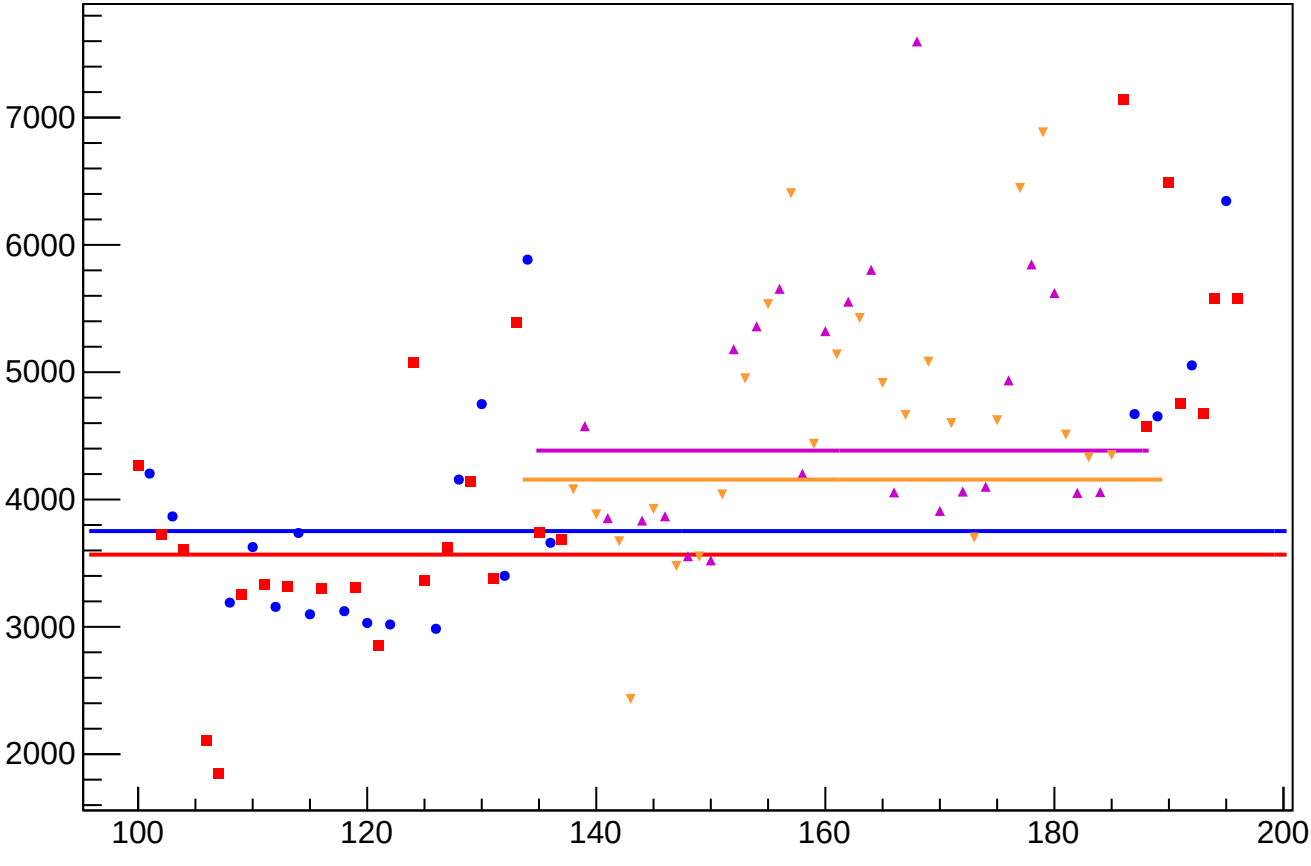
Right: 994.716+/-811.882 $\chi^2$/NDF: 48.1/45

In: 402.228+/-796.945 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.606 $\chi^2$/NDF:59.1/50

All: 437.383+/-536.128 $\chi^2$/NDF: 91.3/93

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3752.236+/-0.871 $\chi^2$/NDF: 910800.7/19

Left Out: 4156.588+/-0.691 $\chi^2$/NDF:2080769.0/24

Right Out: 3567.219+/-0.764 $\chi^2$/NDF: 1961465.1/25

Left In: 4384.329+/-0.739 $\chi^2$/NDF:1255475.0/22

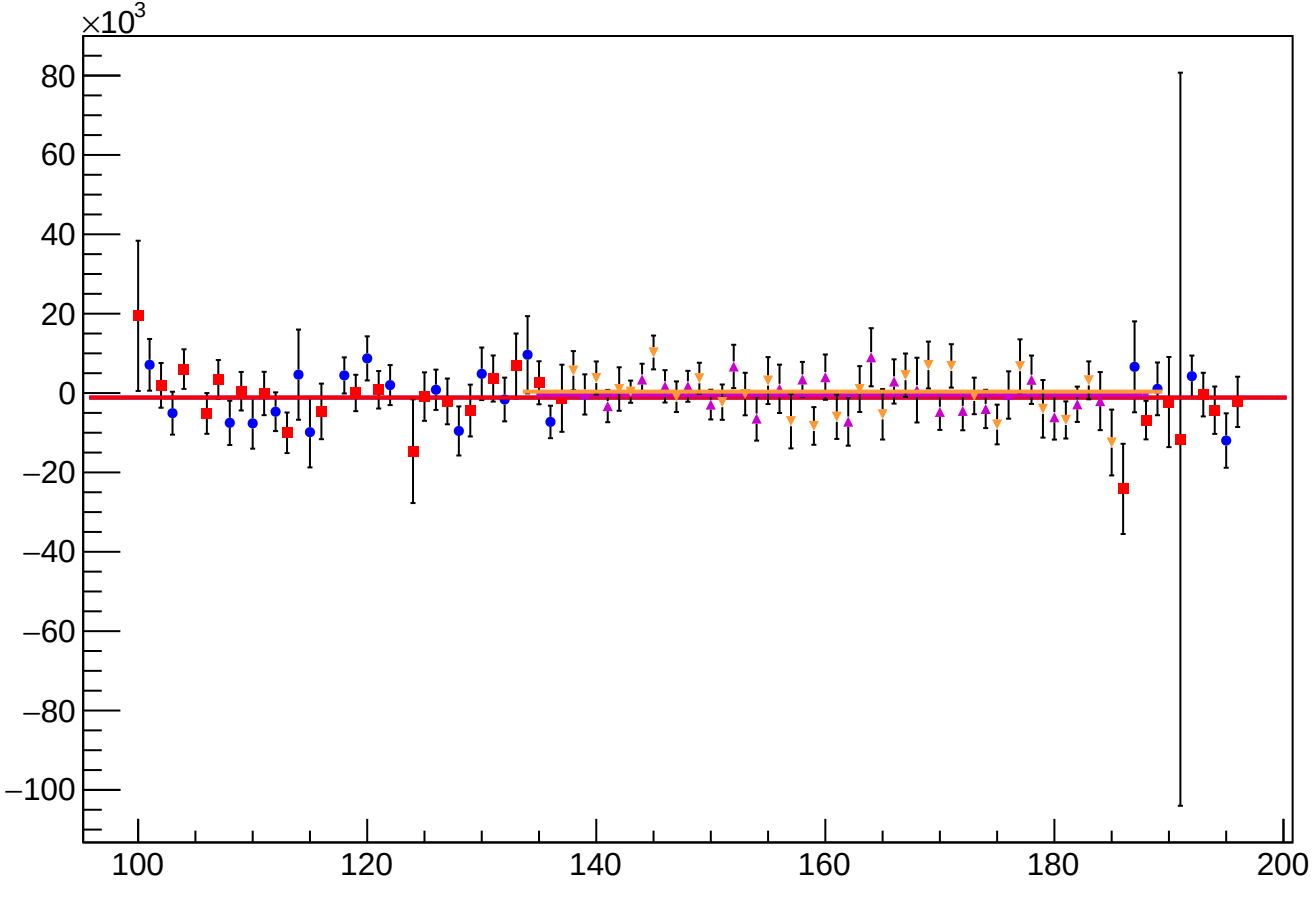
Left: 4262.780+/-0.505 $\chi^2$/NDF: 3386892.6/47

Right: 3647.669+/-0.574 $\chi^2$/NDF: 2897790.9/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472554.8/42

Out: 3891.256+/-0.512 $\chi^2$/NDF:4369734.2/50

All: 3994.552+/-0.379 $\chi^2$/NDF: 6932096.0/93




Right In: -1147.735+/-1317.034 $\chi^2$/NDF: 21.7/19

Left Out: 362.528+/-979.860 $\chi^2$/NDF:27.7/24

Right Out: -1132.375+/-1191.597 $\chi^2$/NDF: 18.0/25

Left In: -497.522+/-1044.707 $\chi^2$/NDF:13.9/22

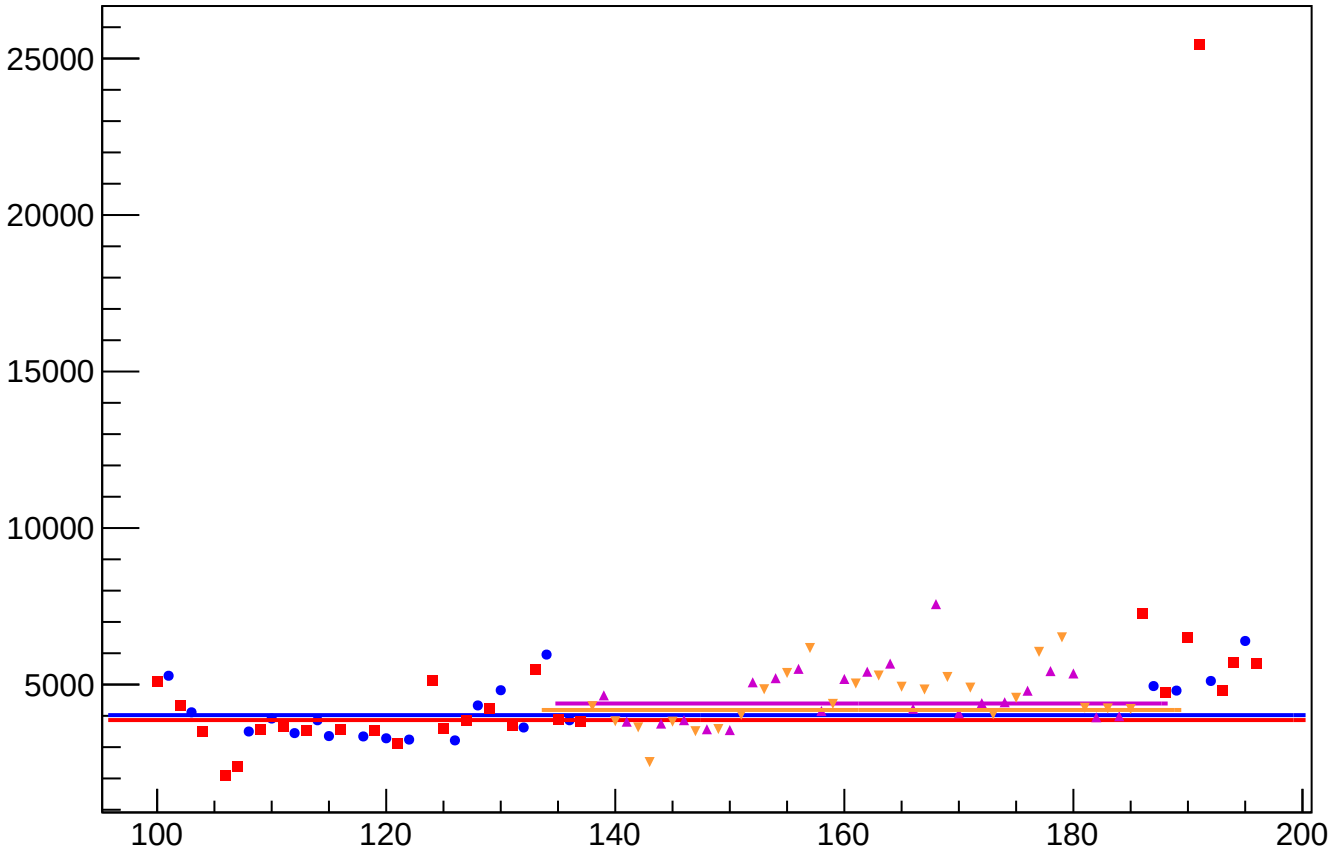
Left: -39.978+/-714.692 $\chi^2$/NDF: 41.9/47

Right: -1139.289+/-883.614 $\chi^2$/NDF: 39.7/45

In: -748.638+/-818.476 $\chi^2$/NDF:35.8/42

Out: -240.530+/-756.837 $\chi^2$/NDF:46.5/50

All: -474.733+/-555.679 $\chi^2$/NDF: 82.5/93




Right In: 4022.872+/-0.931 $\chi^2$/NDF: 805994.9/19

Left Out: 4187.848+/-0.693 $\chi^2$/NDF:1796345.9/24

Right Out: 3864.895+/-0.833 $\chi^2$/NDF: 1631239.7/25

Left In: 4394.324+/-0.739 $\chi^2$/NDF:1088394.9/22

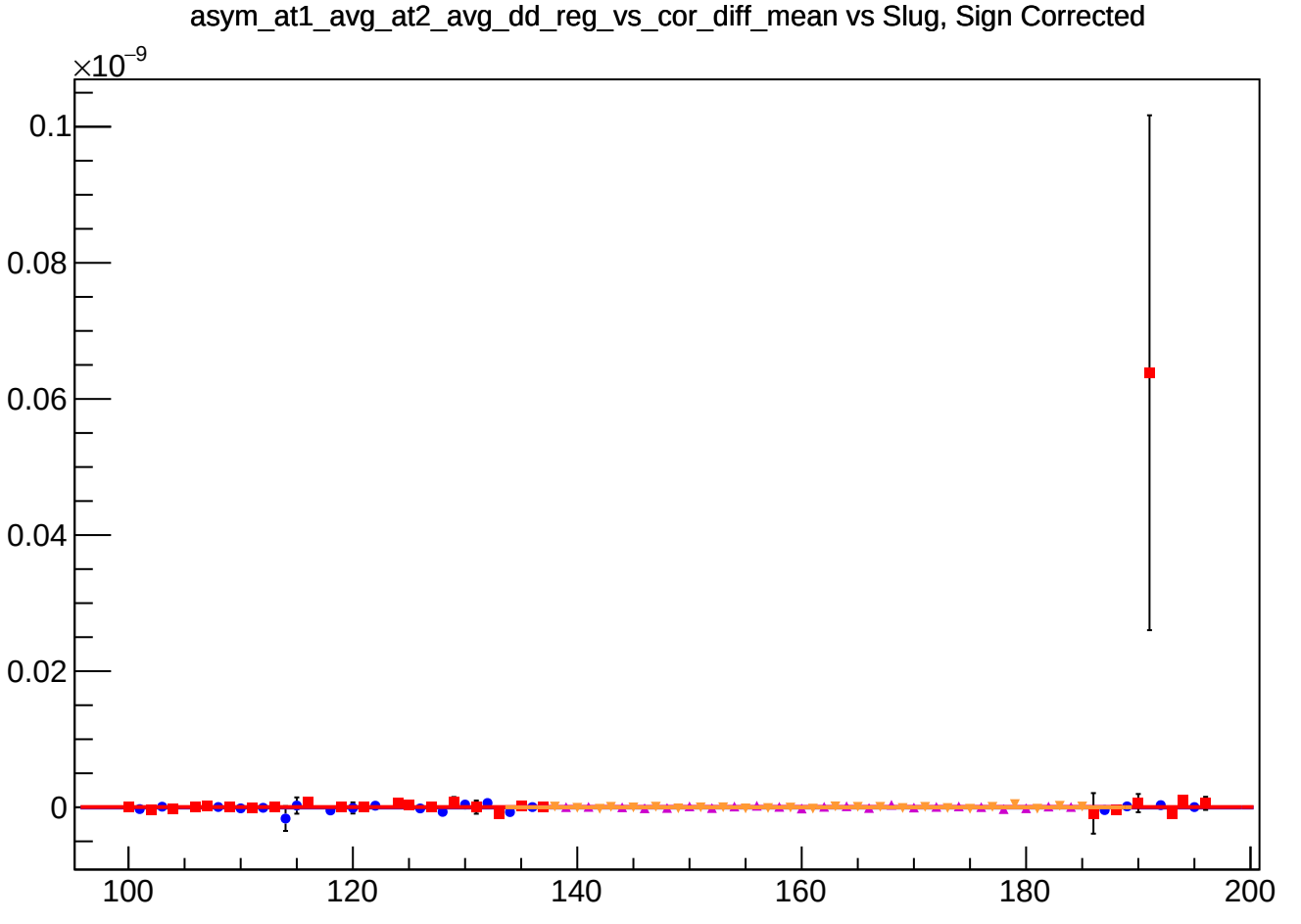
Left: 4284.479+/-0.505 $\chi^2$/NDF: 2926302.1/47

Right: 3935.149+/-0.621 $\chi^2$/NDF: 2453213.5/45

In: 4250.866+/-0.579 $\chi^2$/NDF:1992039.1/42

Out: 4055.860+/-0.533 $\chi^2$/NDF:3516377.9/50

All: 4145.314+/-0.392 $\chi^2$/NDF: 5569868.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.0/22

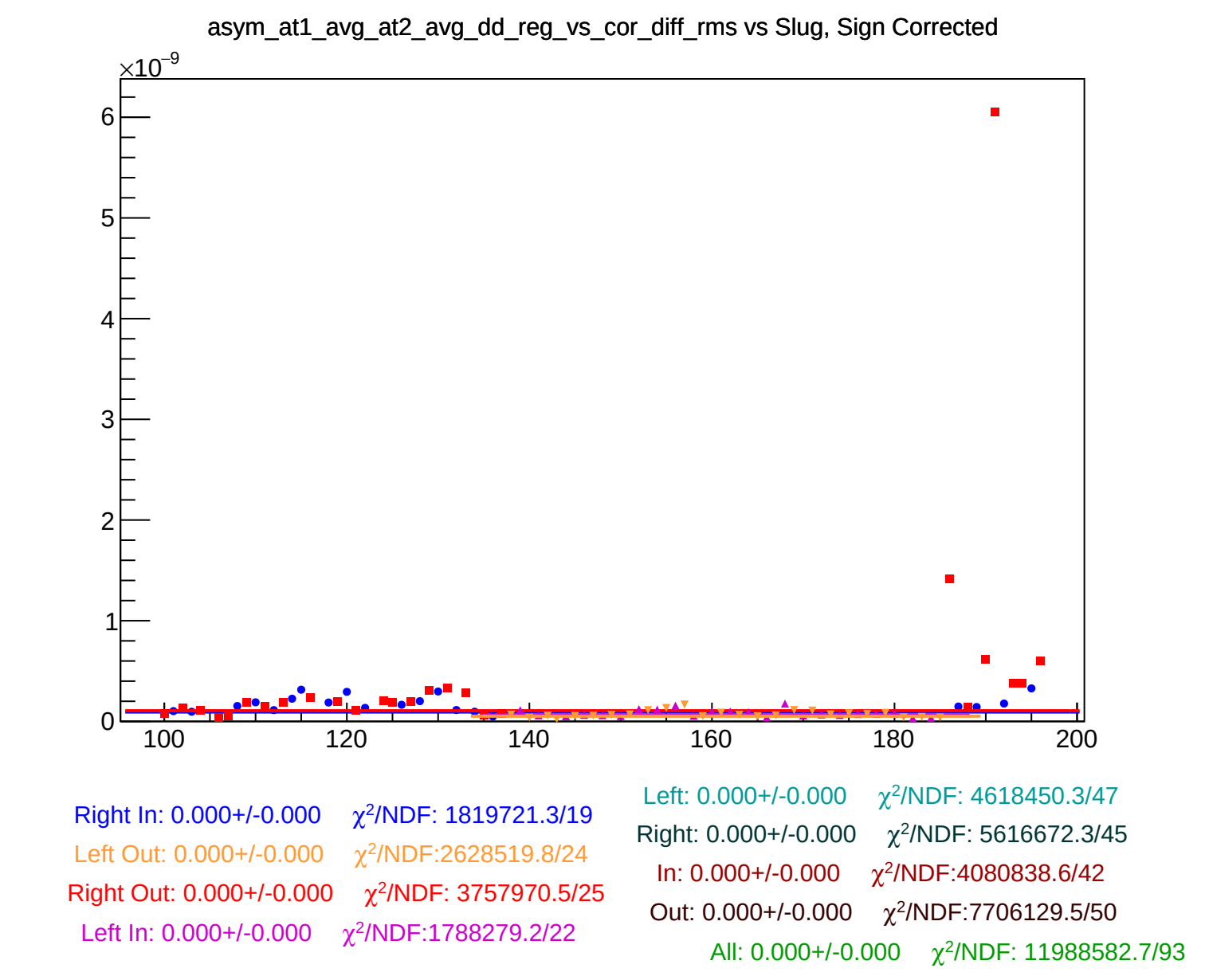
Left: 0.000+/-0.000 $\chi^2$/NDF: 48.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.9/45

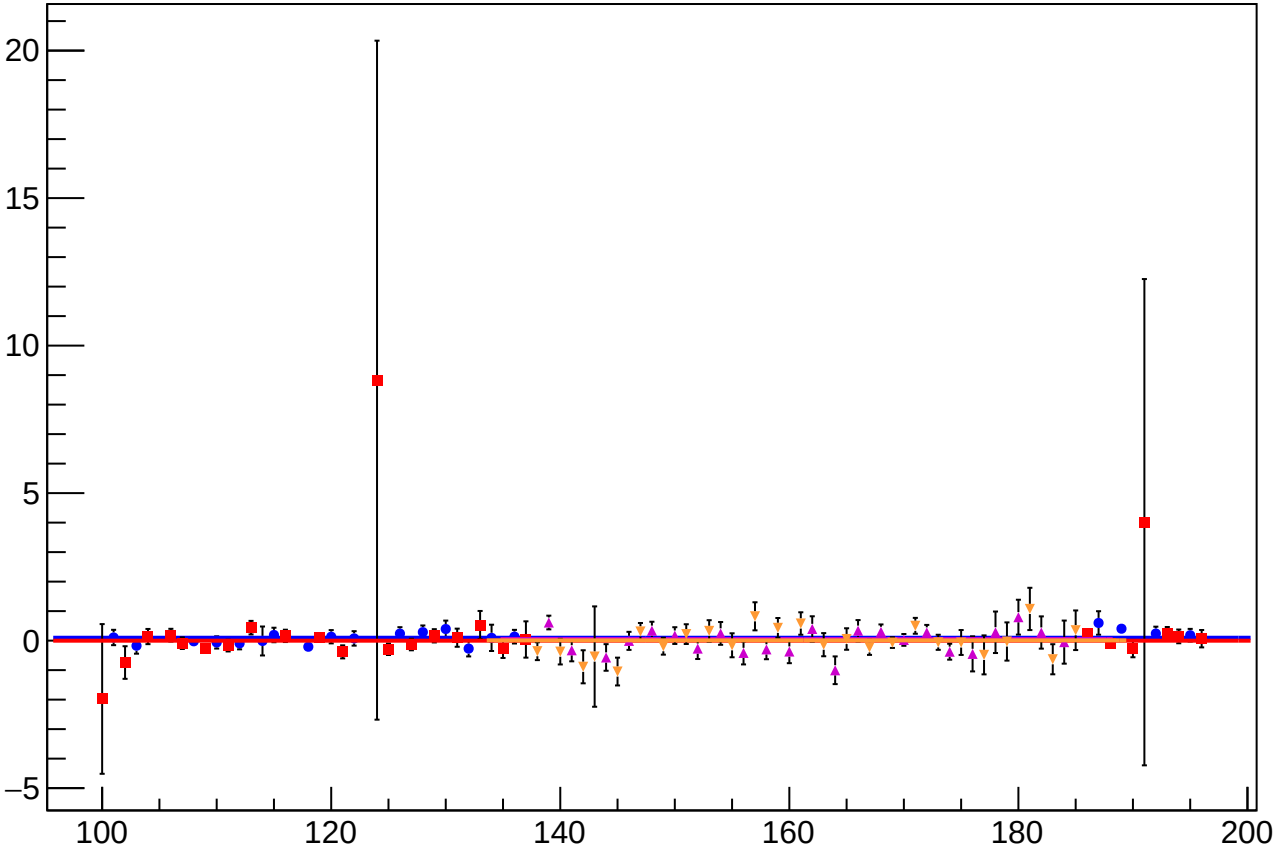
In: 0.000+/-0.000 $\chi^2$/NDF:35.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 92.9/93


asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
6
5
4
3
2
1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1819721.3/19
Left Out: 0.000+/-0.000 χ²/NDF:2628519.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 3757970.5/25
Left In: 0.000+/-0.000 χ²/NDF:1788279.2/22
Left: 0.000+/-0.000 χ²/NDF: 4618450.3/47
Right: 0.000+/-0.000 χ²/NDF: 5616672.3/45
In: 0.000+/-0.000 χ²/NDF:4080838.6/42
Out: 0.000+/-0.000 χ²/NDF:7706129.5/50
All: 0.000+/-0.000 χ²/NDF: 11988582.7/93

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

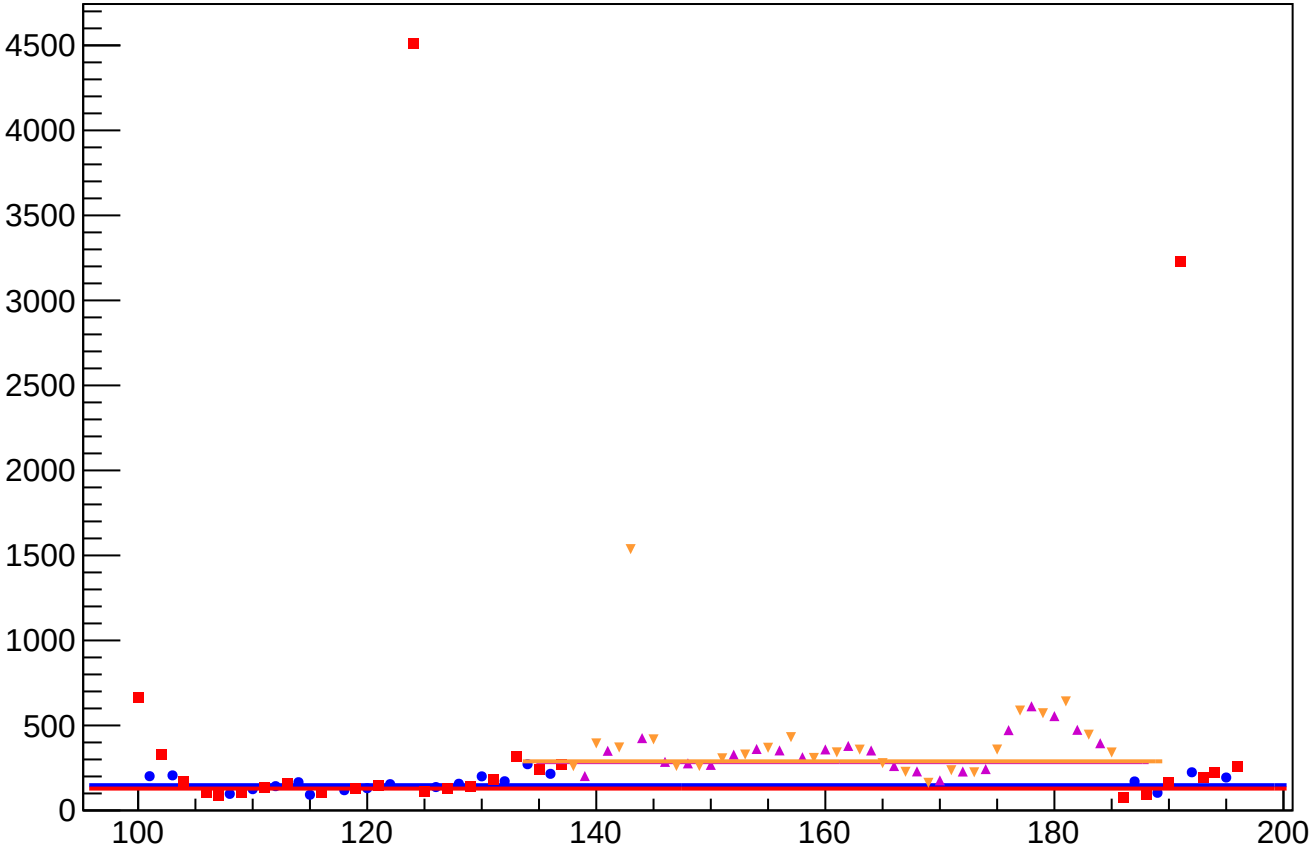
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

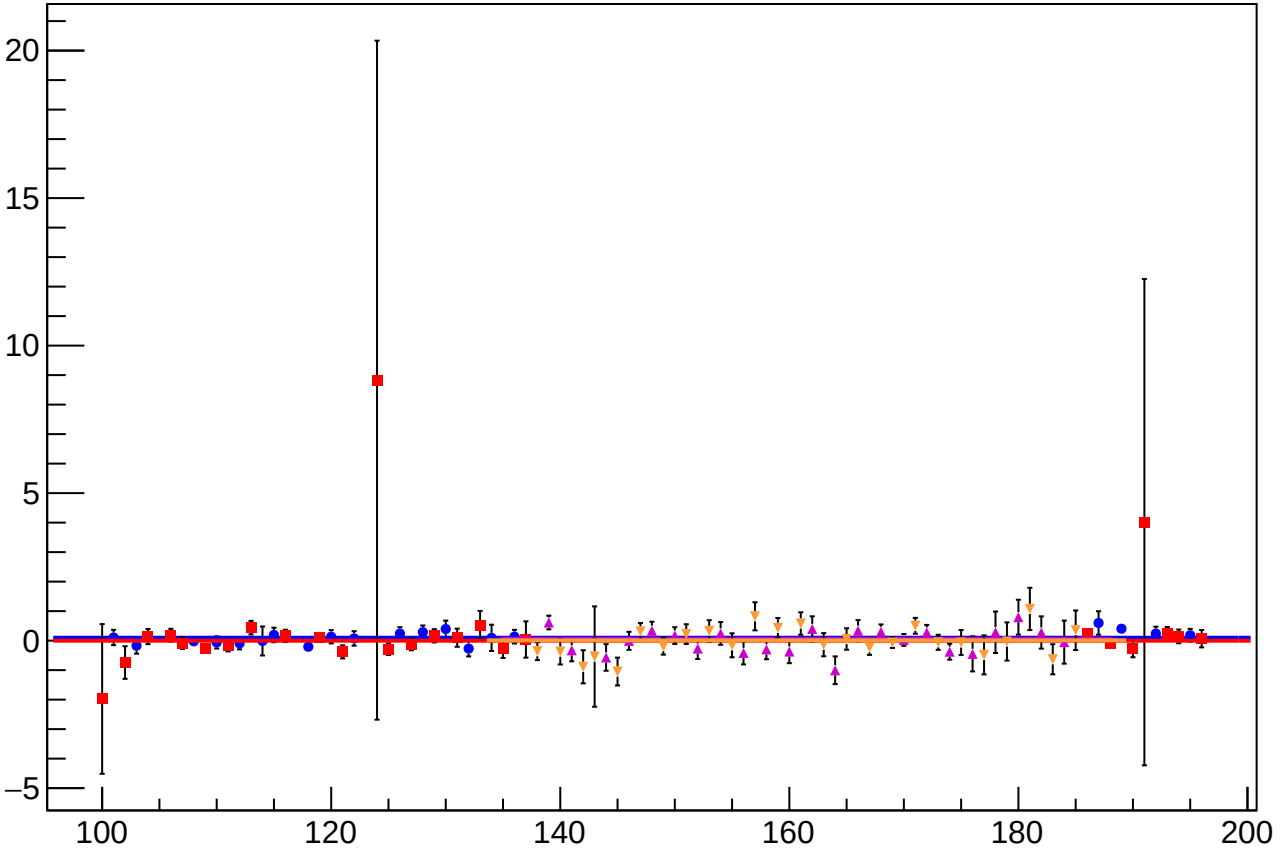
Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

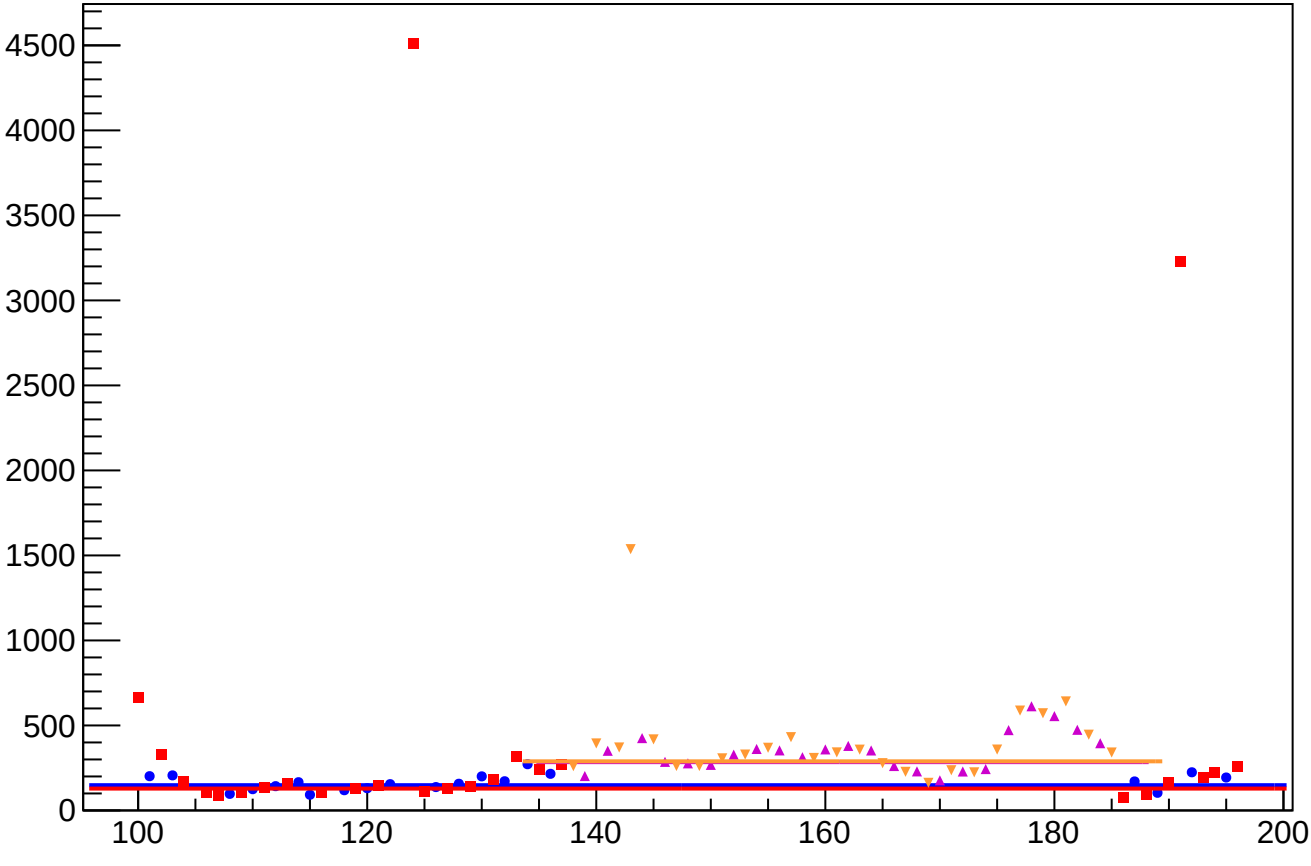
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

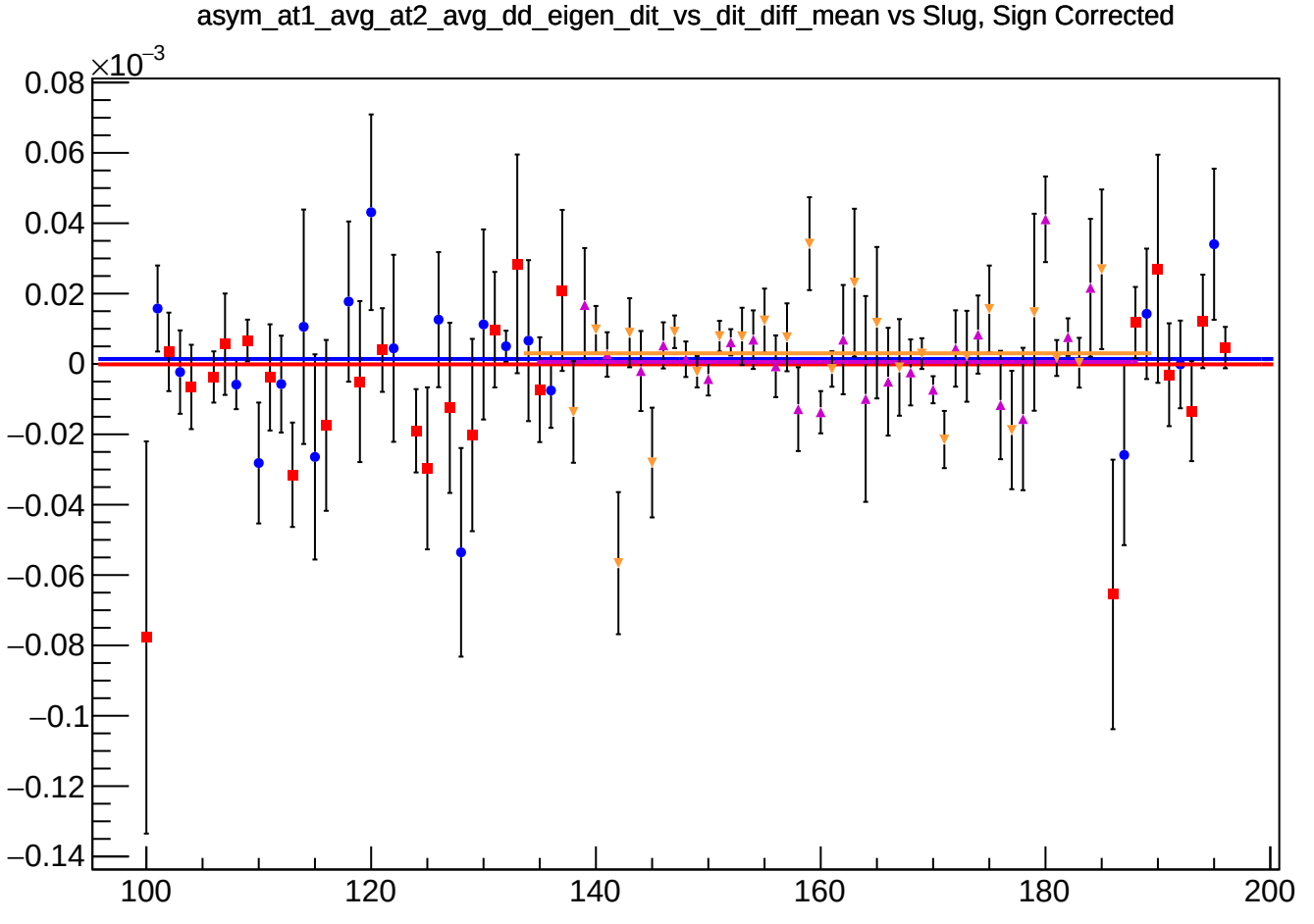
Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:42.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:33.2/22

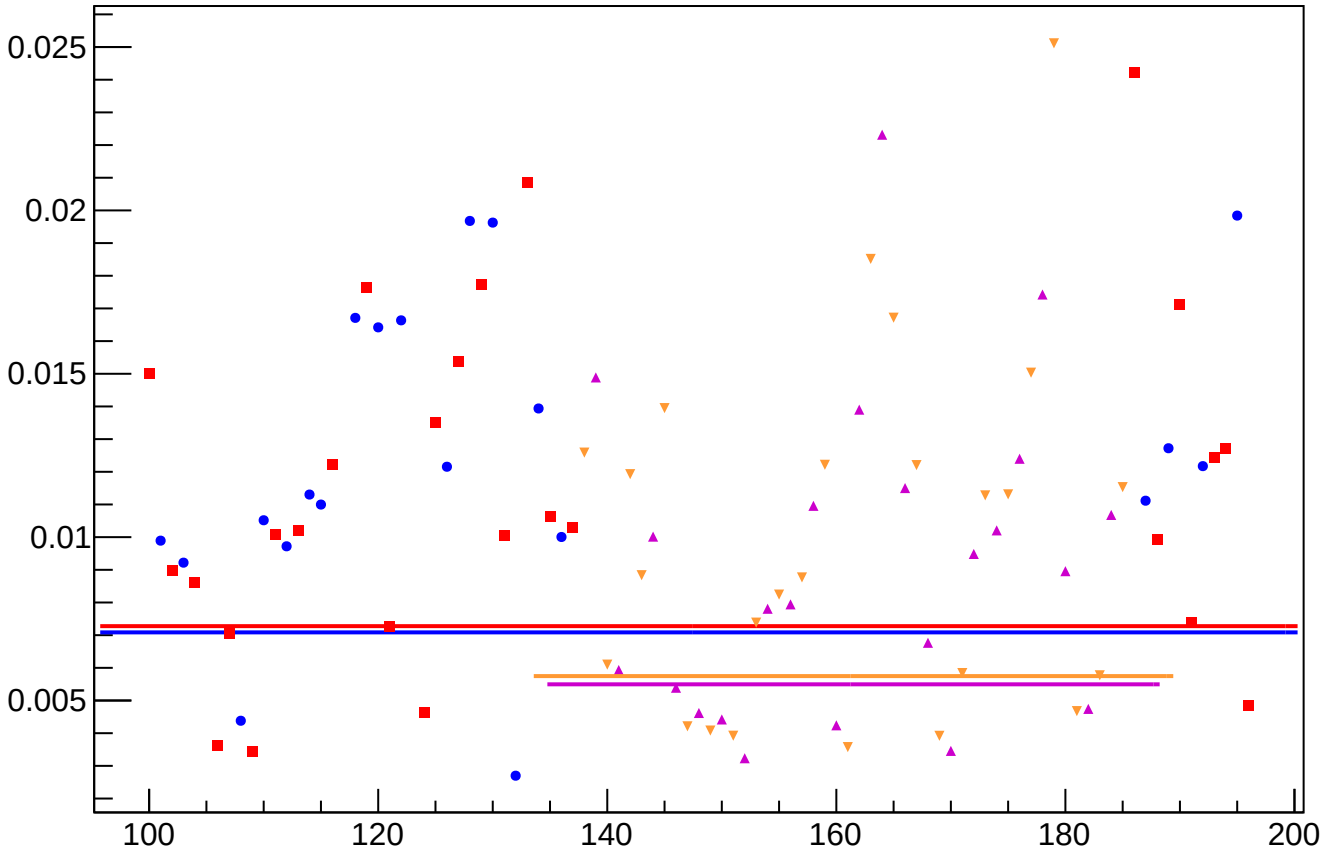
Left: 0.000+/-0.000 $\chi^2$/NDF: 76.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:52.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:67.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 120.0/93




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6031592.9/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8128513.8/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 5084188.5/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:6937299.0/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 15093250.6/47

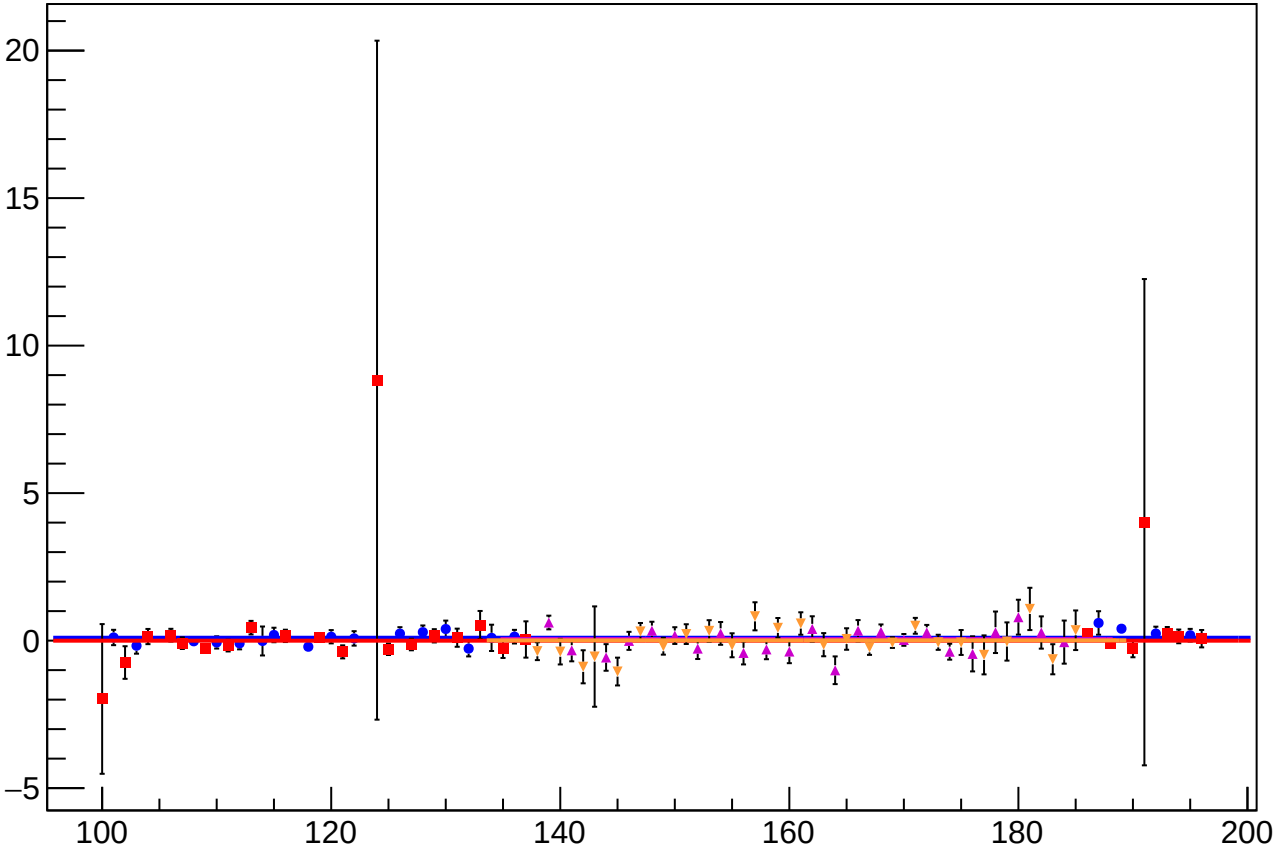
Right: 0.007+/-0.000 $\chi^2$/NDF: 11121070.9/45

In: 0.006+/-0.000 $\chi^2$/NDF:13474040.4/42

Out: 0.006+/-0.000 $\chi^2$/NDF:13772298.6/50

All: 0.006+/-0.000 $\chi^2$/NDF: 27302294.7/93

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

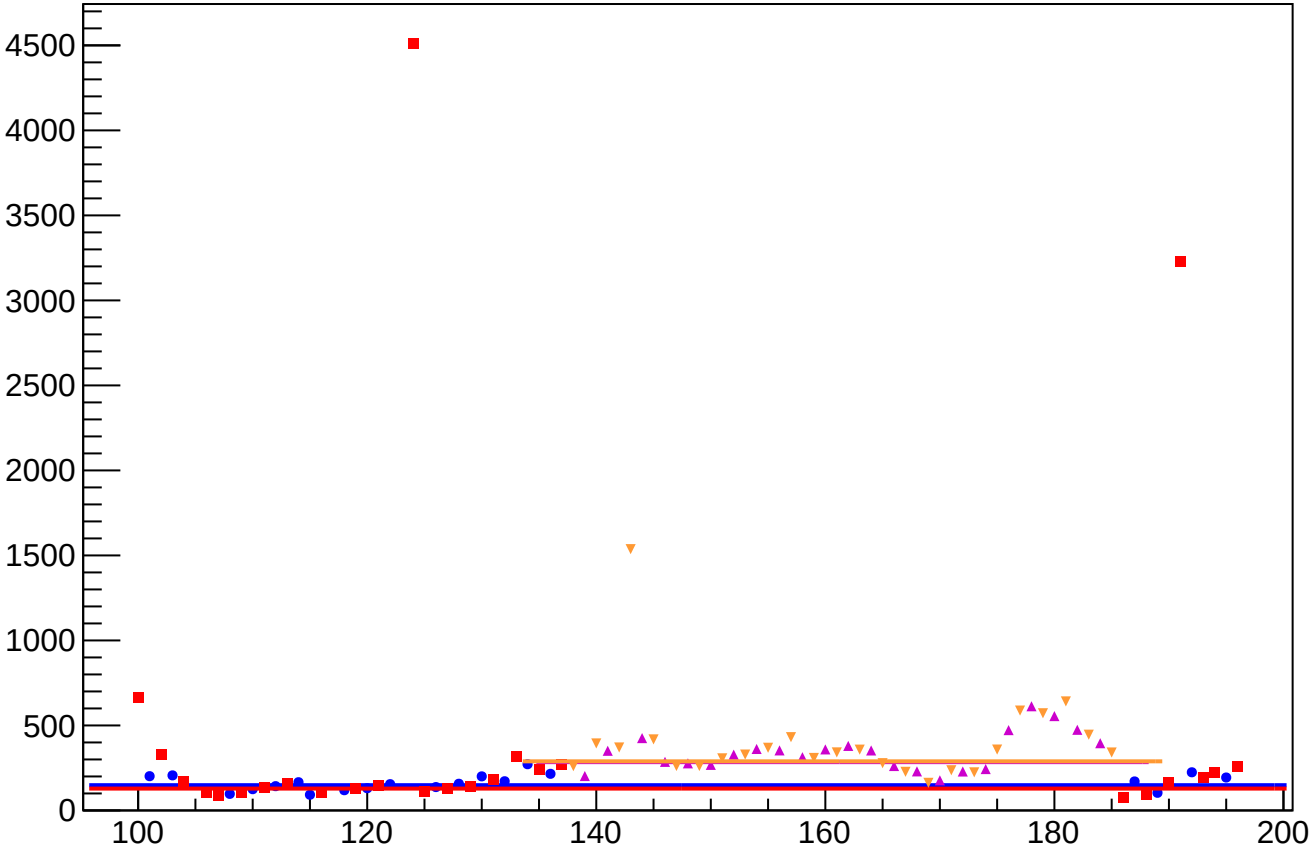
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

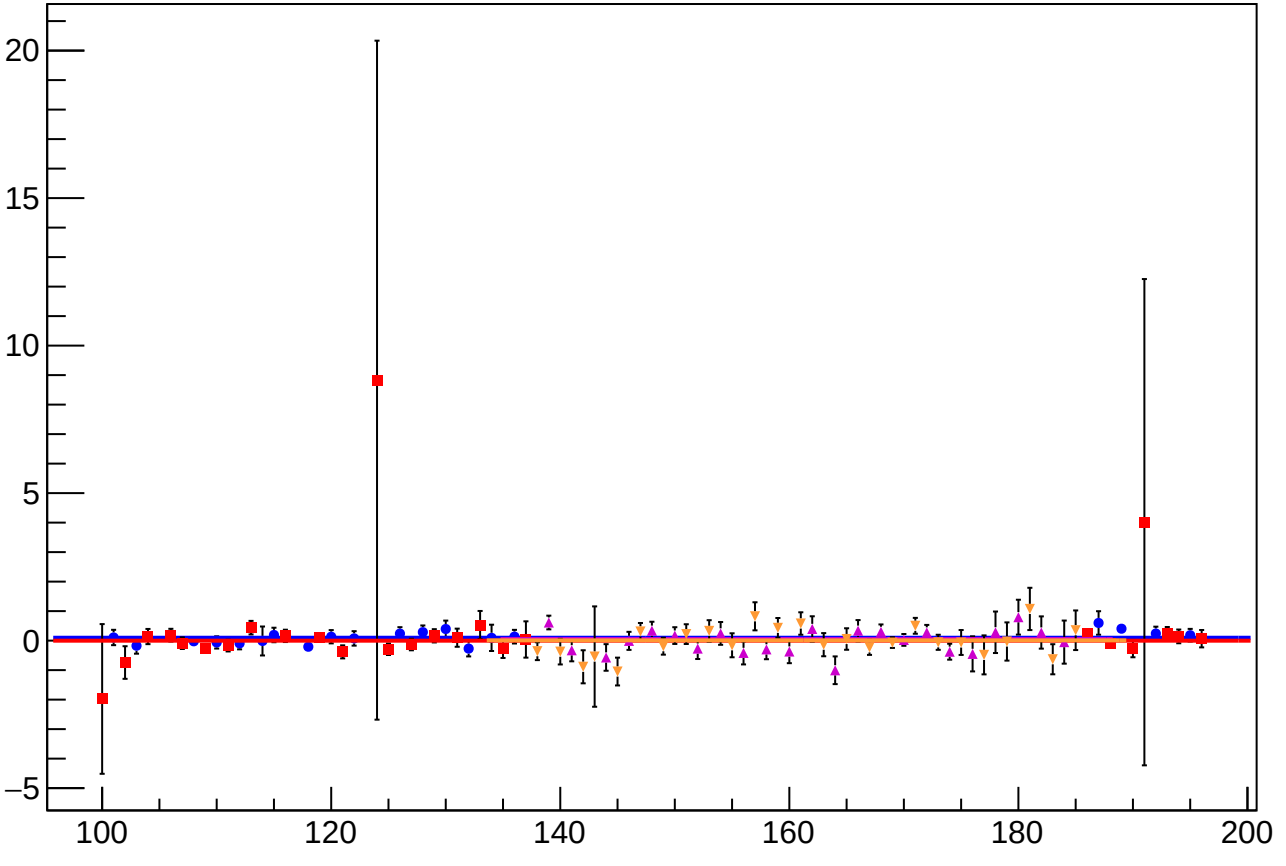
Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

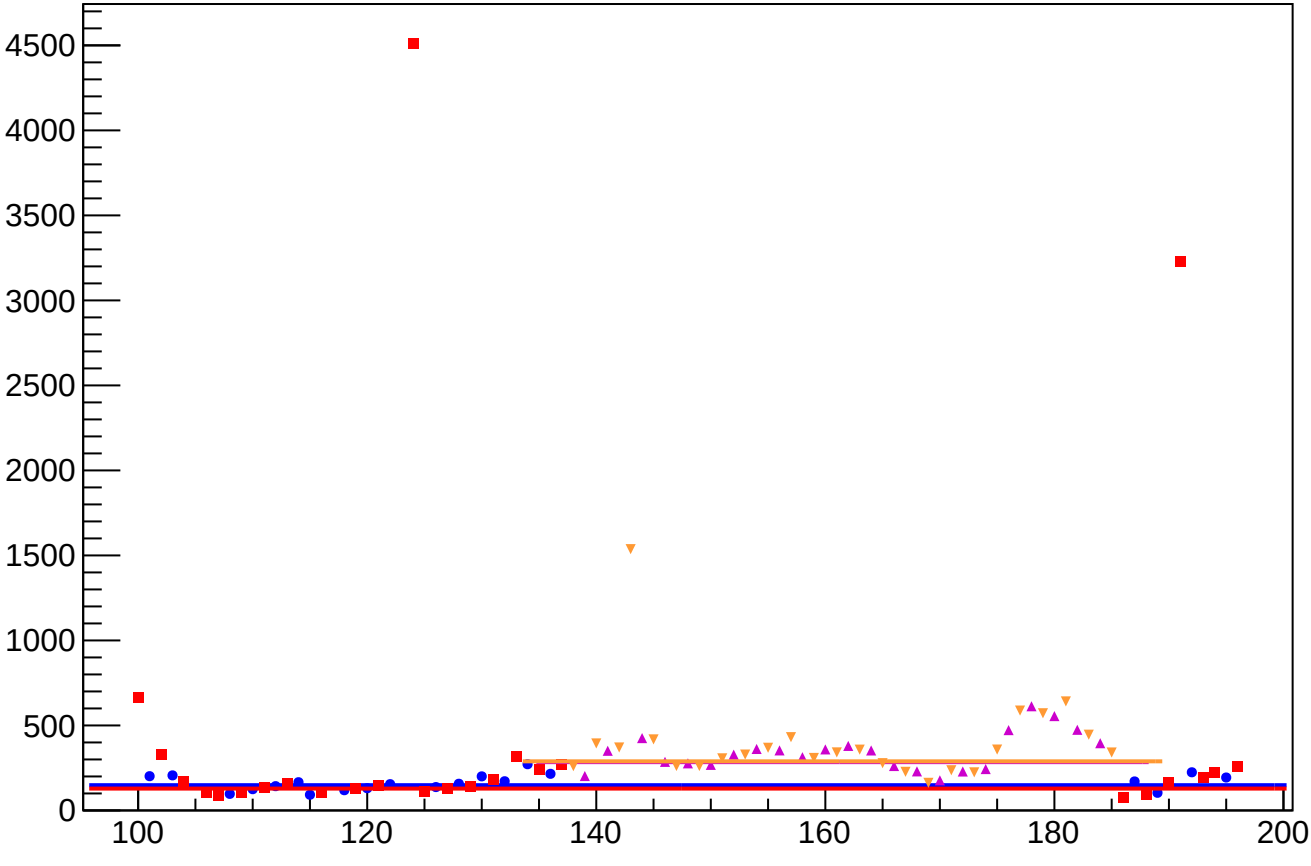
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

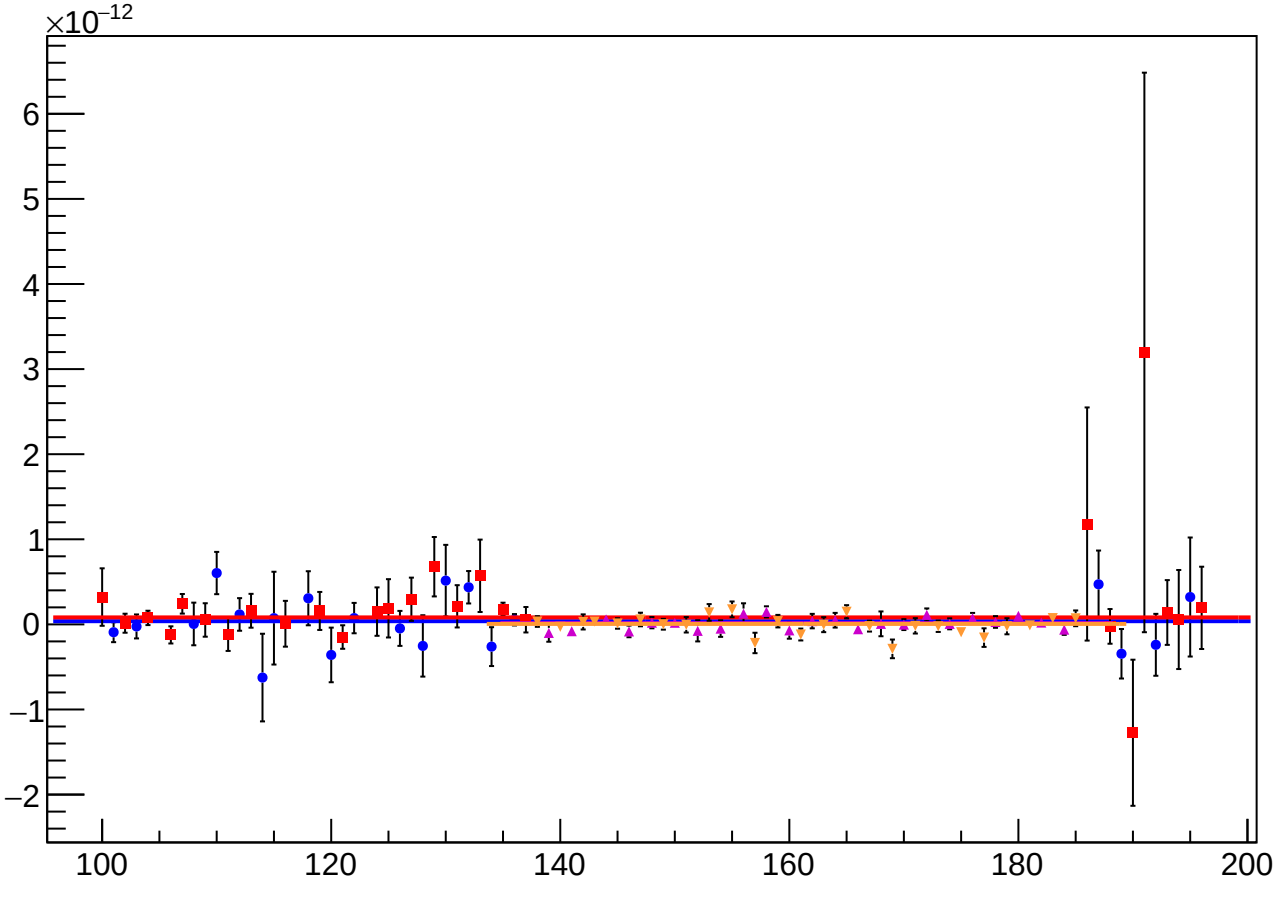
Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:34.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 22.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.2/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 57.6/47

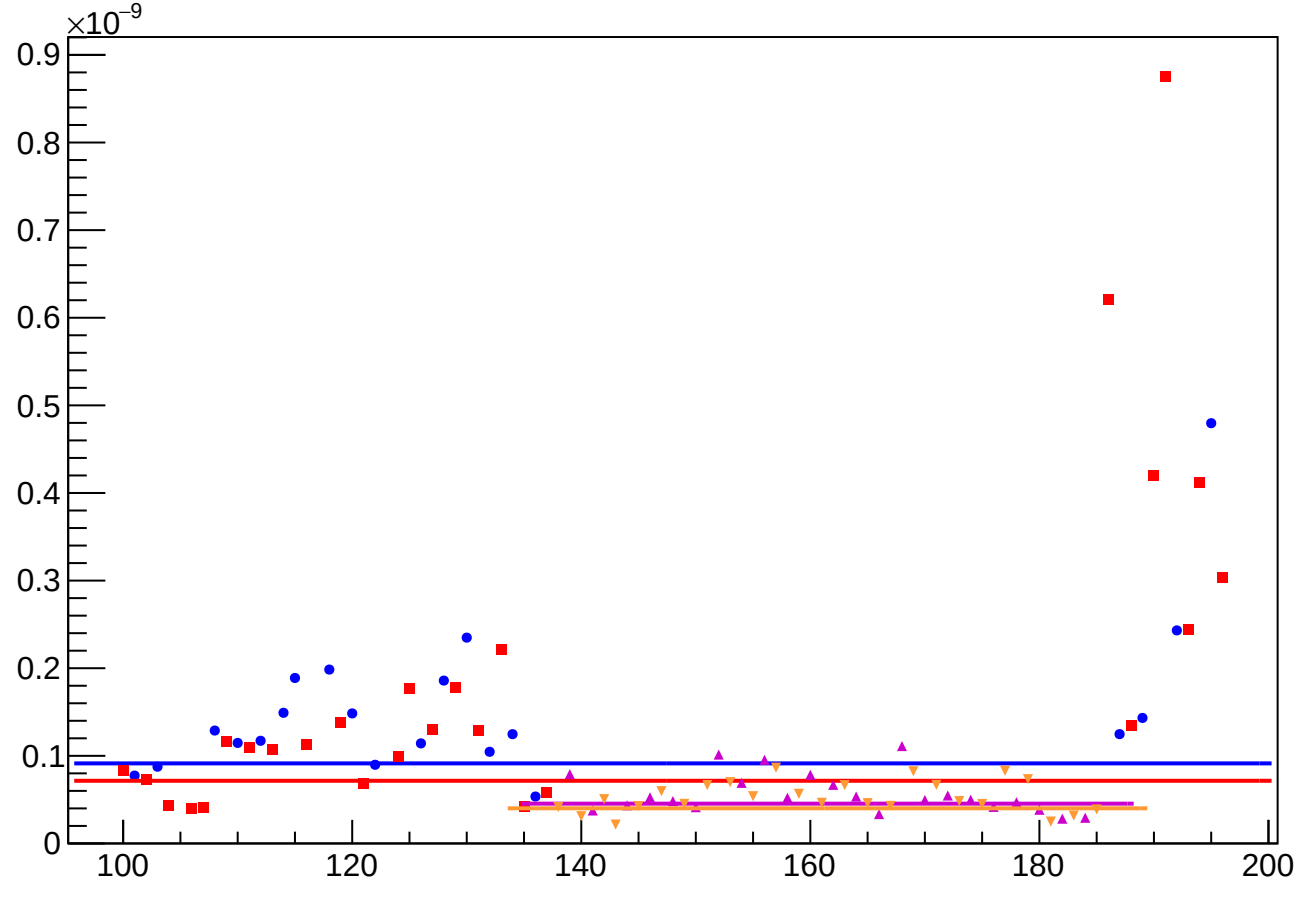
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:46.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:61.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 107.5/93

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2636191.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3609934.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4742507.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2780344.5/22

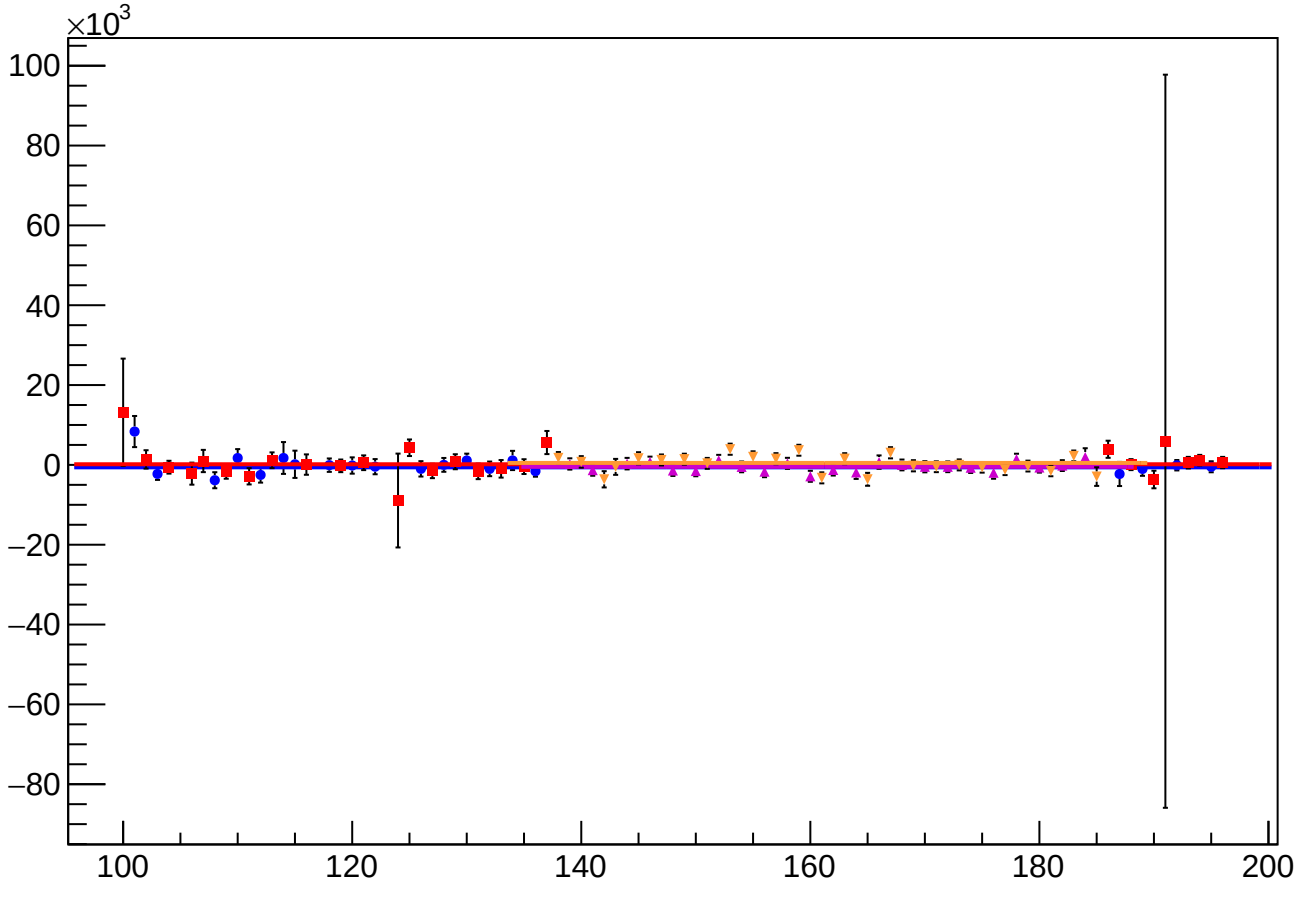
Left: 0.000+/-0.000 $\chi^2$/NDF: 6559252.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 7654386.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:7612218.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9908555.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 17762677.0/93




Right In: -614.675+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.062+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 156.945+/-386.866 $\chi^2$/NDF: 22.9/25

Left In: -486.821+/-293.769 $\chi^2$/NDF:14.4/22

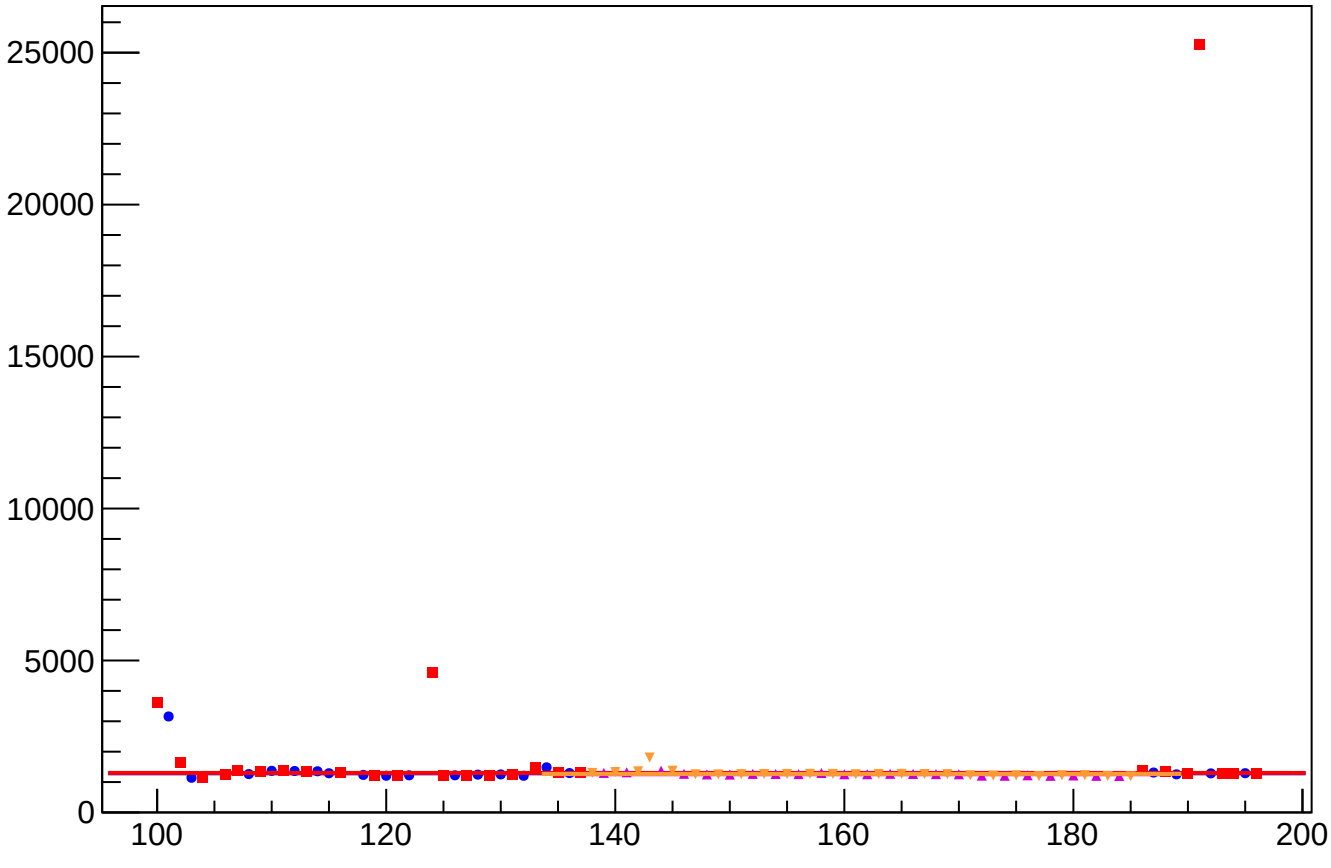
Left: 11.486+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -199.863+/-283.651 $\chi^2$/NDF: 39.2/45

In: -529.211+/-240.182 $\chi^2$/NDF:28.9/42

Out: 372.302+/-231.270 $\chi^2$/NDF:70.3/50

All: -61.418+/-166.594 $\chi^2$/NDF: 106.5/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515618.9/19

Left Out: 1266.967+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1300.693+/-0.273 $\chi^2$/NDF: 465812.9/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.4/22

Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

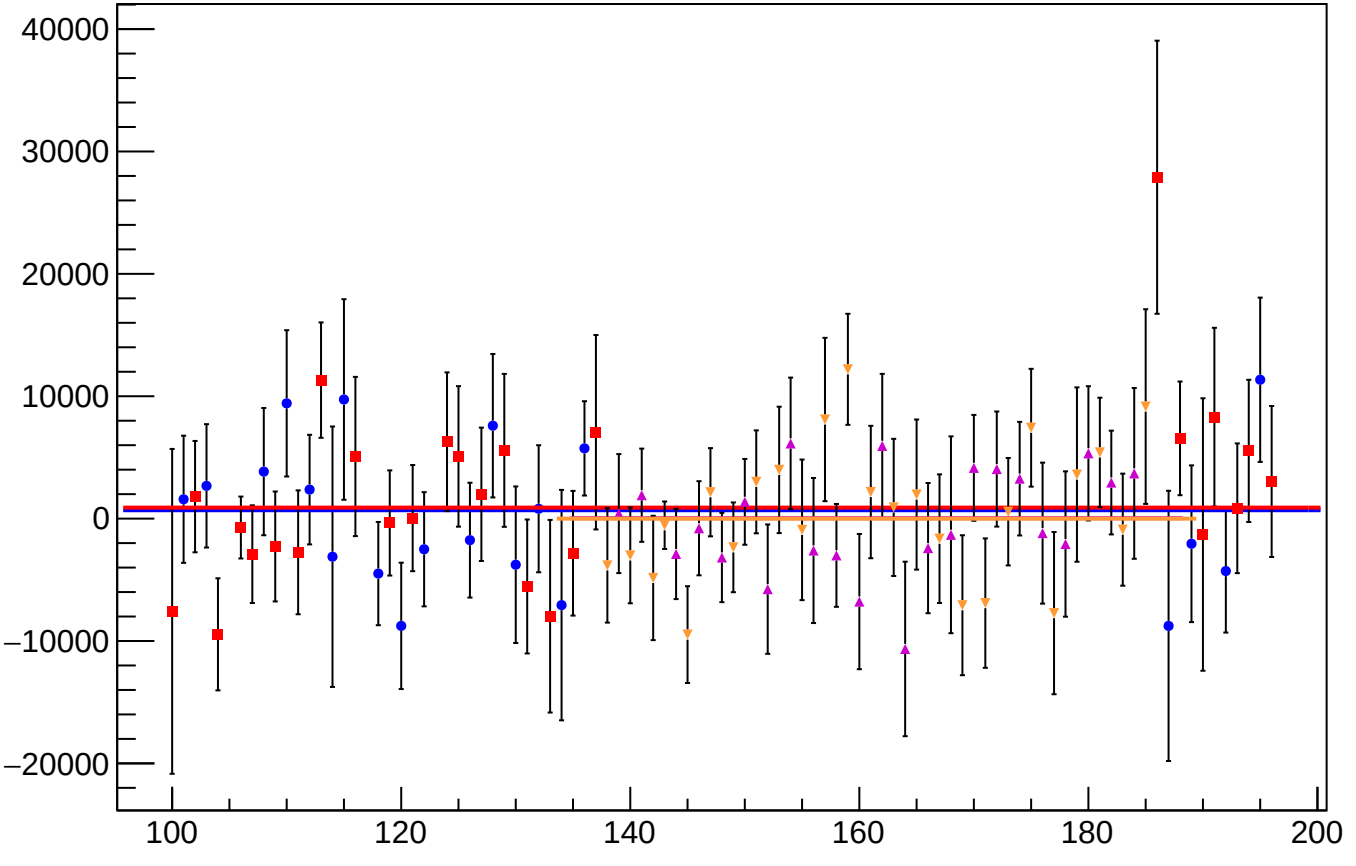
Right: 1294.723+/-0.200 $\chi^2$/NDF: 982467.2/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559446.7/42

Out: 1279.046+/-0.163 $\chi^2$/NDF:663146.9/50

All: 1273.526+/-0.118 $\chi^2$/NDF: 1224965.3/93

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 686.766+/-1227.454 $\chi^2$/NDF: 18.5/19

Left Out: -0.604+/-886.488 $\chi^2$/NDF:29.1/24

Right Out: 899.769+/-1008.735 $\chi^2$/NDF: 28.3/25

Left In: 31.593+/-995.348 $\chi^2$/NDF:14.0/22

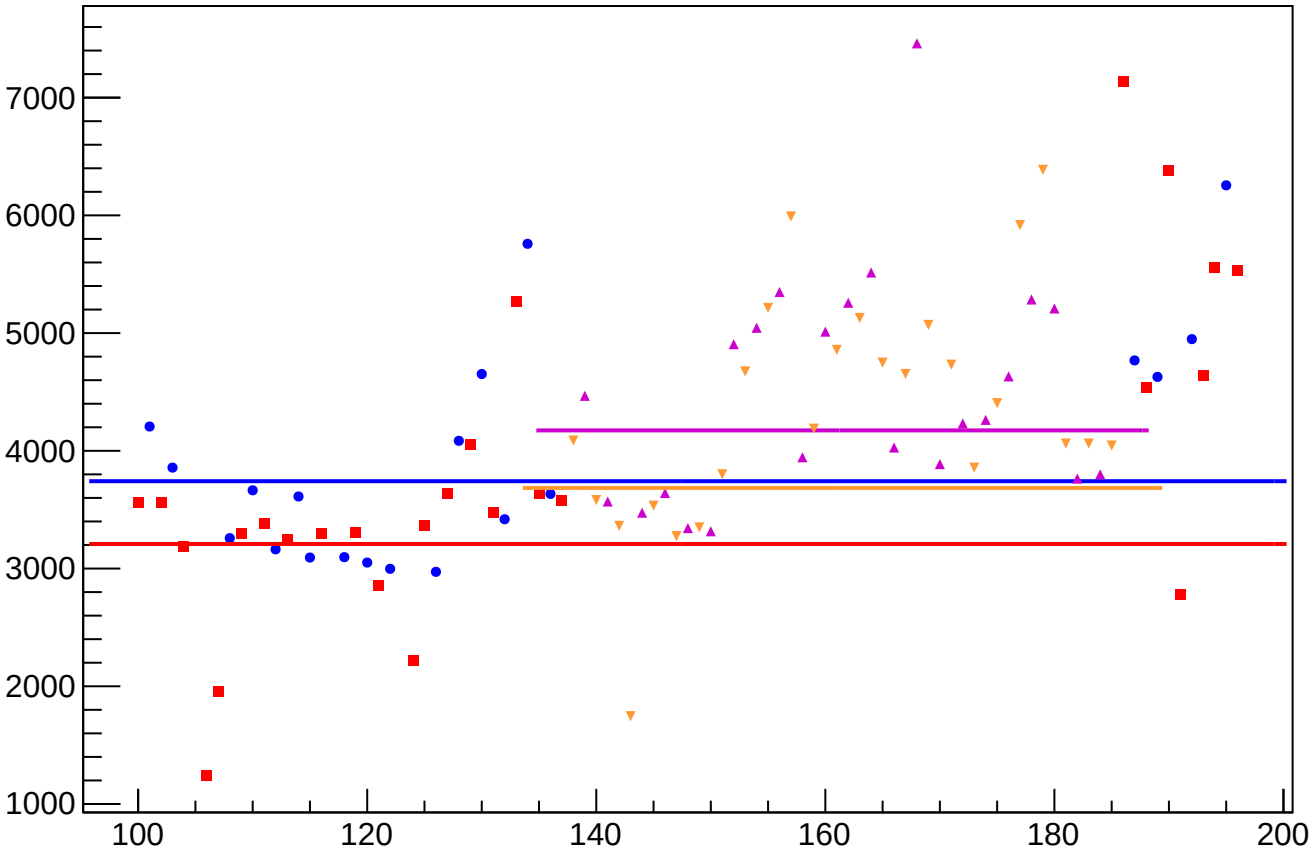
Left: 13.638+/-661.996 $\chi^2$/NDF: 43.1/47

Right: 813.903+/-779.330 $\chi^2$/NDF: 46.8/45

In: 291.504+/-773.107 $\chi^2$/NDF:32.7/42

Out: 391.747+/-665.891 $\chi^2$/NDF:57.8/50

All: 349.053+/-504.540 $\chi^2$/NDF: 90.5/93




Right In: 3741.990+/-0.868 $\chi^2$/NDF: 867873.6/19

Left Out: 3684.769+/-0.627 $\chi^2$/NDF:3693646.6/24

Right Out: 3208.734+/-0.713 $\chi^2$/NDF: 3048047.1/25

Left In: 4173.556+/-0.704 $\chi^2$/NDF:1274968.4/22

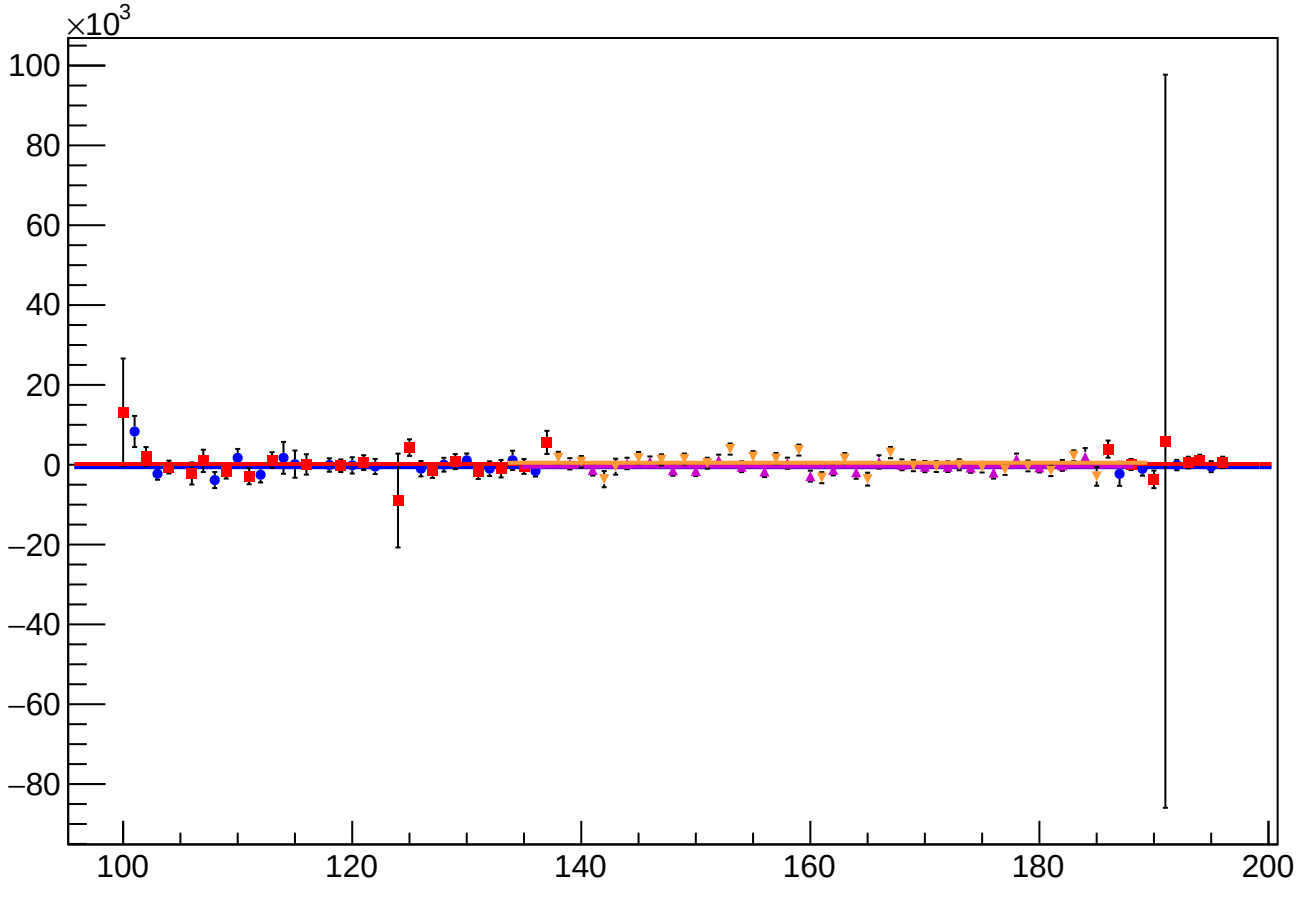
Left: 3900.981+/-0.468 $\chi^2$/NDF: 5237573.9/47

Right: 3423.699+/-0.551 $\chi^2$/NDF: 4141230.8/45

In: 4002.351+/-0.547 $\chi^2$/NDF:2291998.8/42

Out: 3477.329+/-0.471 $\chi^2$/NDF:6993006.0/50

All: 3700.938+/-0.357 $\chi^2$/NDF: 9814535.2/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

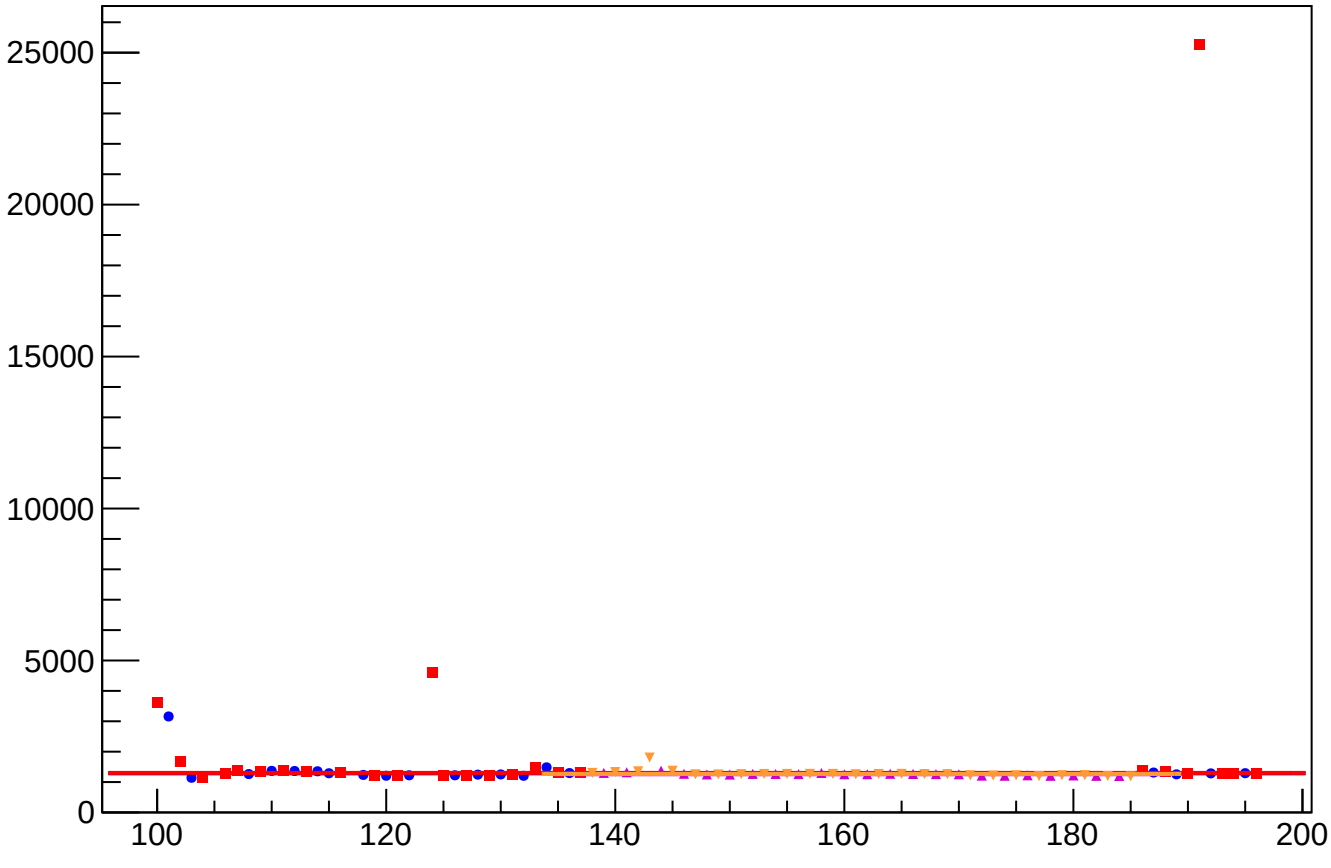
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

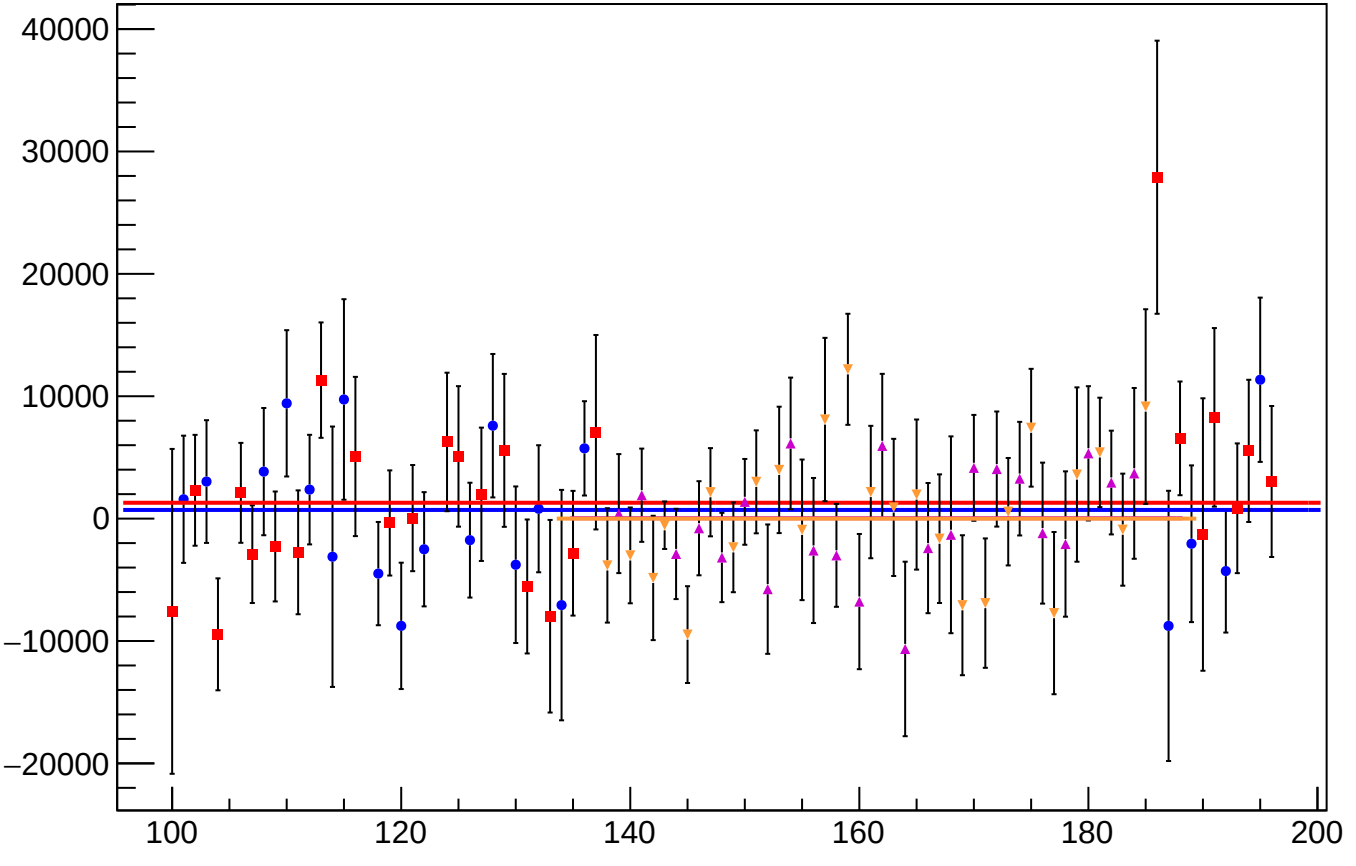
Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: 708.951+/-1227.092 $\chi^2$/NDF: 18.5/19

Left Out: -0.541+/-886.487 $\chi^2$/NDF:29.1/24

Right Out: 1295.913+/-1061.753 $\chi^2$/NDF: 27.9/25

Left In: 31.597+/-995.347 $\chi^2$/NDF:14.0/22

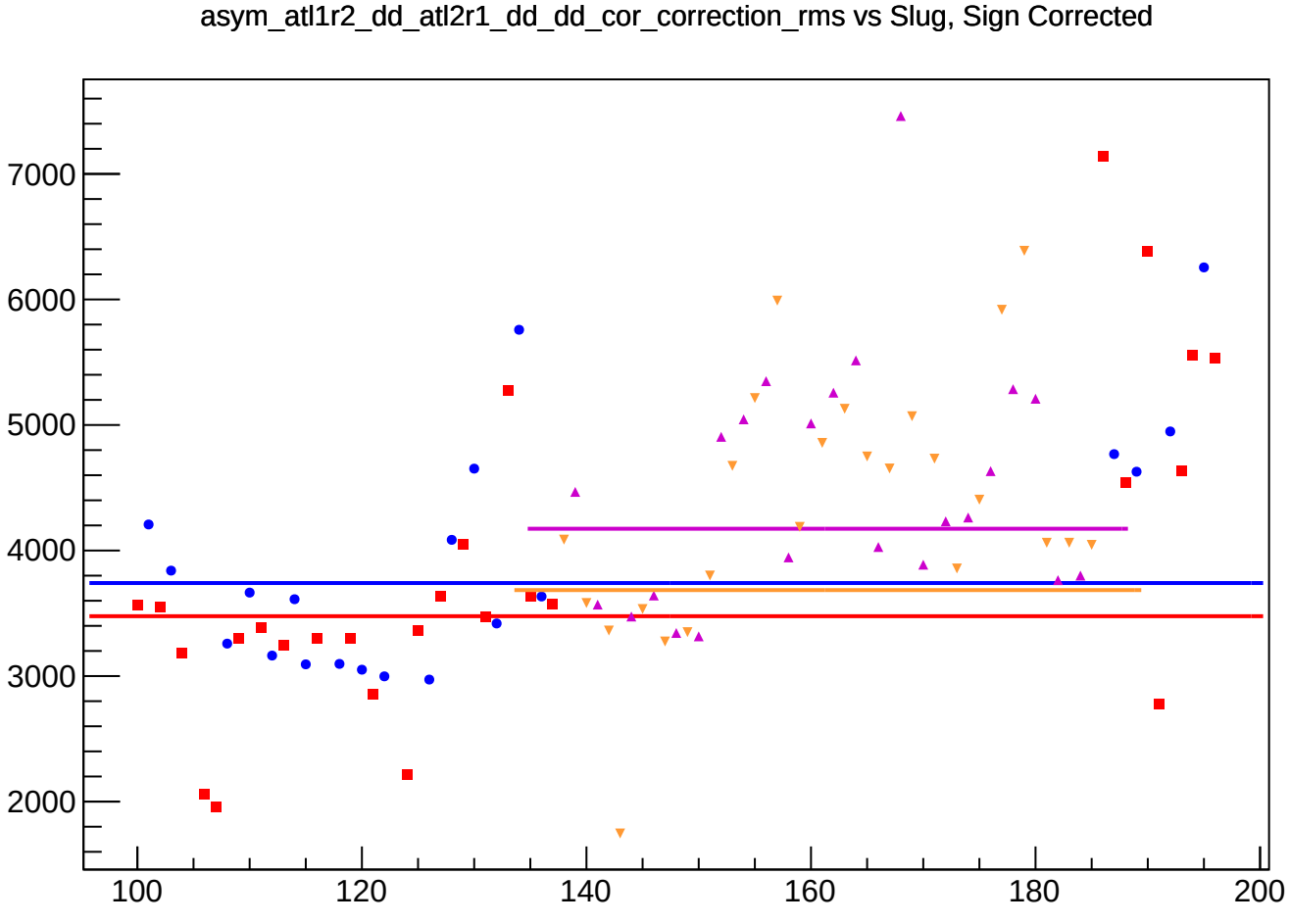
Left: 13.675+/-661.996 $\chi^2$/NDF: 43.1/47

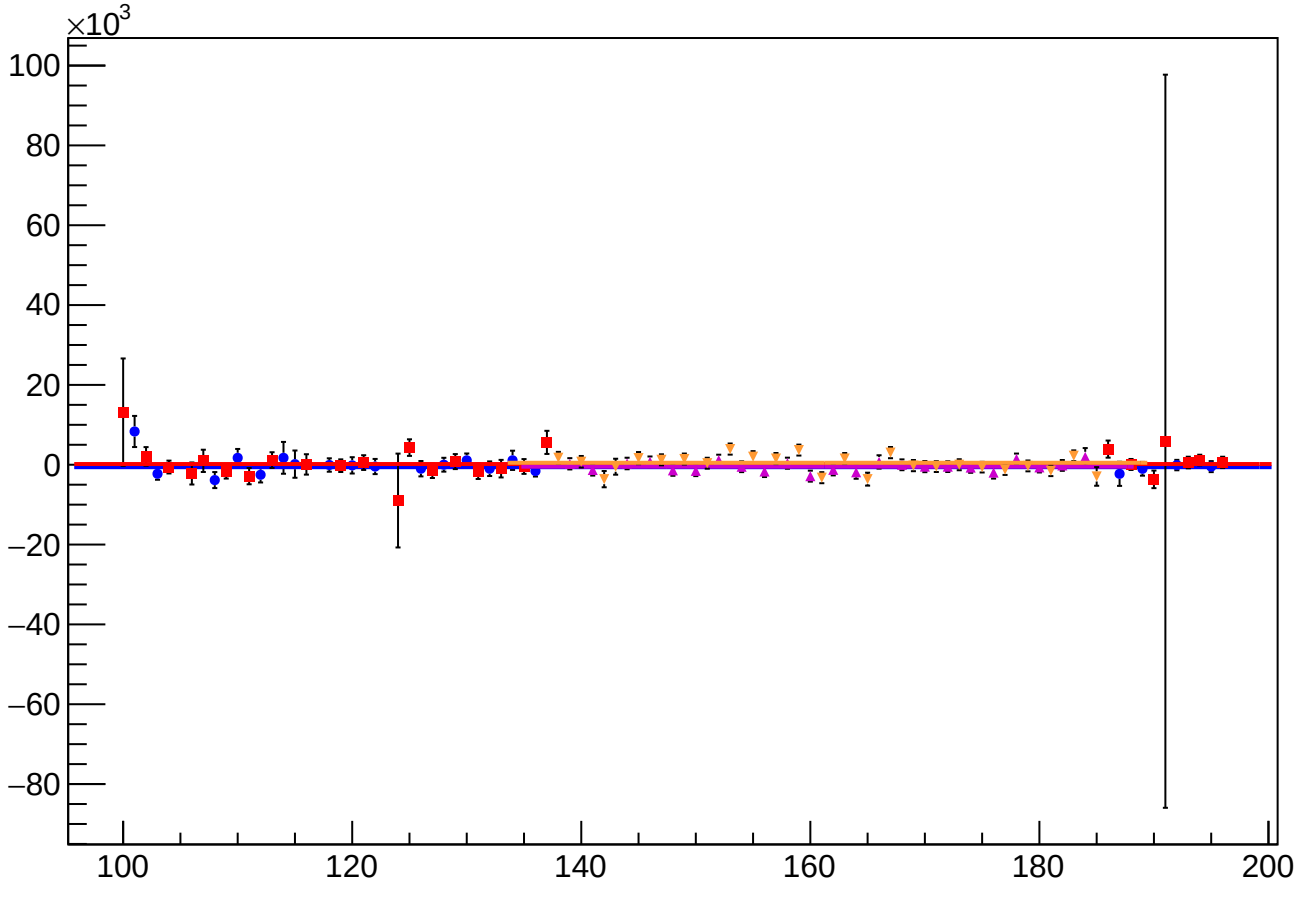
Right: 1044.612+/-802.914 $\chi^2$/NDF: 46.6/45

In: 300.403+/-773.016 $\chi^2$/NDF:32.7/42

Out: 531.992+/-680.484 $\chi^2$/NDF:57.8/50

All: 430.881+/-510.773 $\chi^2$/NDF: 90.6/93


asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 3741.069+/-0.868 χ²/NDF: 867662.3/19
Left Out: 3684.762+/-0.627 χ²/NDF:3693687.2/24
Right Out: 3476.932+/-0.751 χ²/NDF: 1868011.4/25
Left In: 4173.550+/-0.704 χ²/NDF:1274967.5/22
Left: 3900.975+/-0.468 χ²/NDF: 5237615.0/47
Right: 3590.019+/-0.568 χ²/NDF: 2788667.8/45
In: 4001.921+/-0.547 χ²/NDF:2292473.4/42
Out: 3599.393+/-0.481 χ²/NDF:5606852.2/50
All: 3775.135+/-0.361 χ²/NDF: 8204864.4/93




Right In: -614.948+/-417.128 $\chi^2$/NDF: 14.4/19

Left Out: 492.079+/-288.495 $\chi^2$/NDF:46.9/24

Right Out: 175.365+/-387.027 $\chi^2$/NDF: 23.3/25

Left In: -486.720+/-293.769 $\chi^2$/NDF:14.4/22

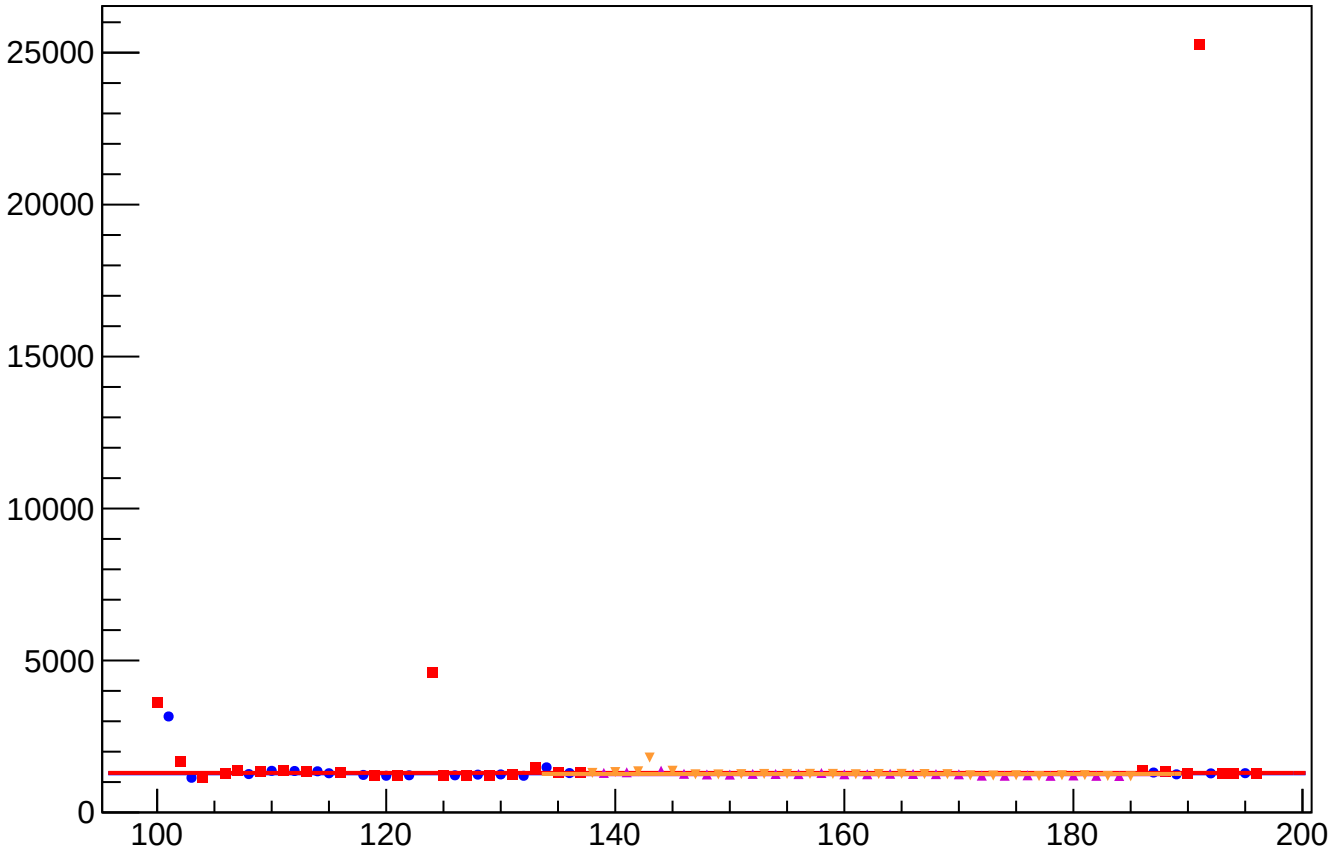
Left: 11.544+/-205.836 $\chi^2$/NDF: 67.0/47

Right: -190.251+/-283.715 $\chi^2$/NDF: 39.7/45

In: -529.234+/-240.182 $\chi^2$/NDF:28.9/42

Out: 378.955+/-231.304 $\chi^2$/NDF:70.6/50

All: -58.044+/-166.607 $\chi^2$/NDF: 107.0/93




Right In: 1287.759+/-0.295 $\chi^2$/NDF: 515620.4/19

Left Out: 1266.968+/-0.204 $\chi^2$/NDF:187545.6/24

Right Out: 1301.974+/-0.273 $\chi^2$/NDF: 472288.7/25

Left In: 1257.551+/-0.208 $\chi^2$/NDF:36816.3/22

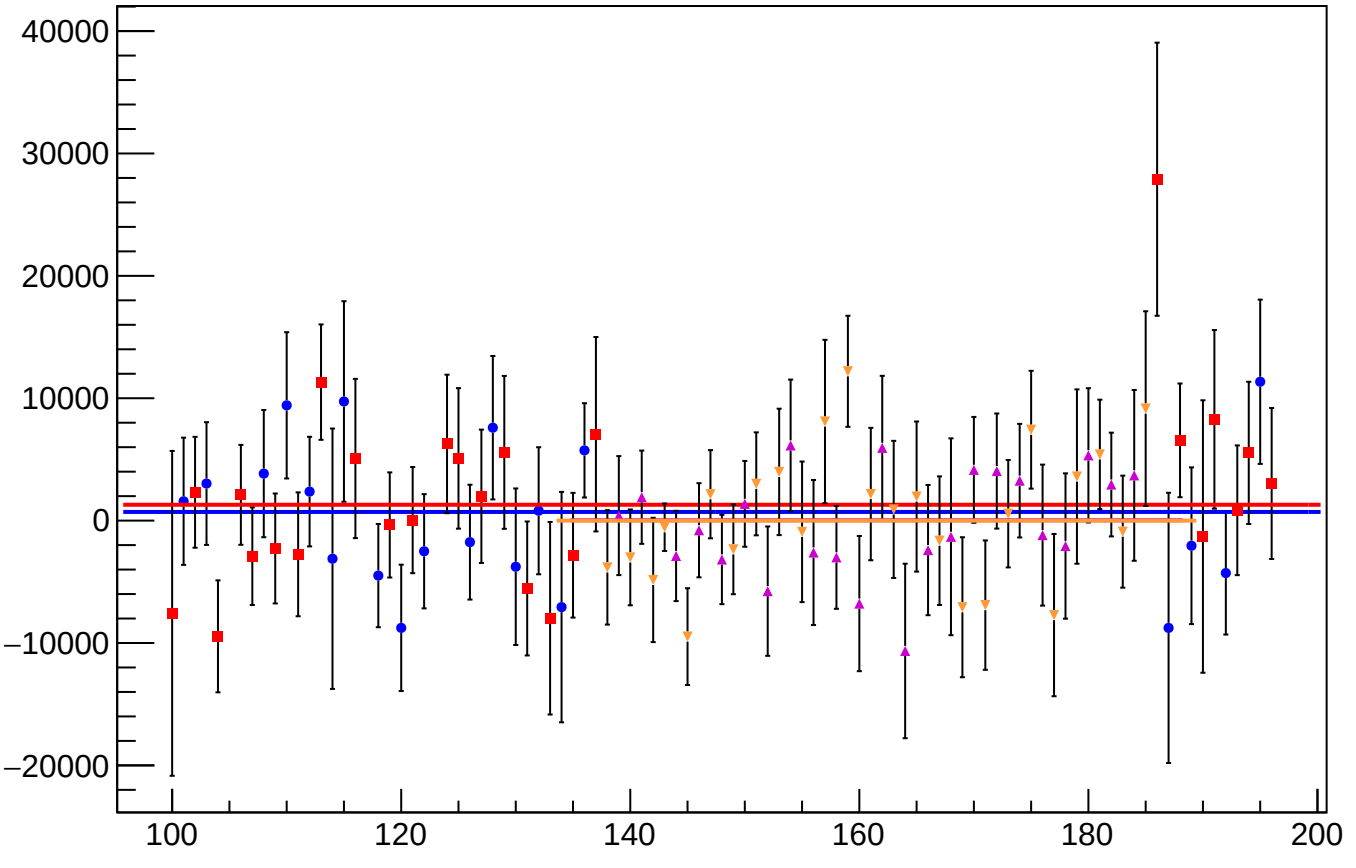
Left: 1262.345+/-0.146 $\chi^2$/NDF: 225407.9/47

Right: 1295.406+/-0.200 $\chi^2$/NDF: 989158.6/45

In: 1267.567+/-0.170 $\chi^2$/NDF:559448.0/42

Out: 1279.490+/-0.163 $\chi^2$/NDF:670368.0/50

All: 1273.755+/-0.118 $\chi^2$/NDF: 1232374.2/93




Right In: 708.951+/-1227.092 $\chi^2$/NDF: 18.5/19

Left Out: -0.541+/-886.487 $\chi^2$/NDF:29.1/24

Right Out: 1295.913+/-1061.753 $\chi^2$/NDF: 27.9/25

Left In: 31.597+/-995.347 $\chi^2$/NDF:14.0/22

Left: 13.675+/-661.996 $\chi^2$/NDF: 43.1/47

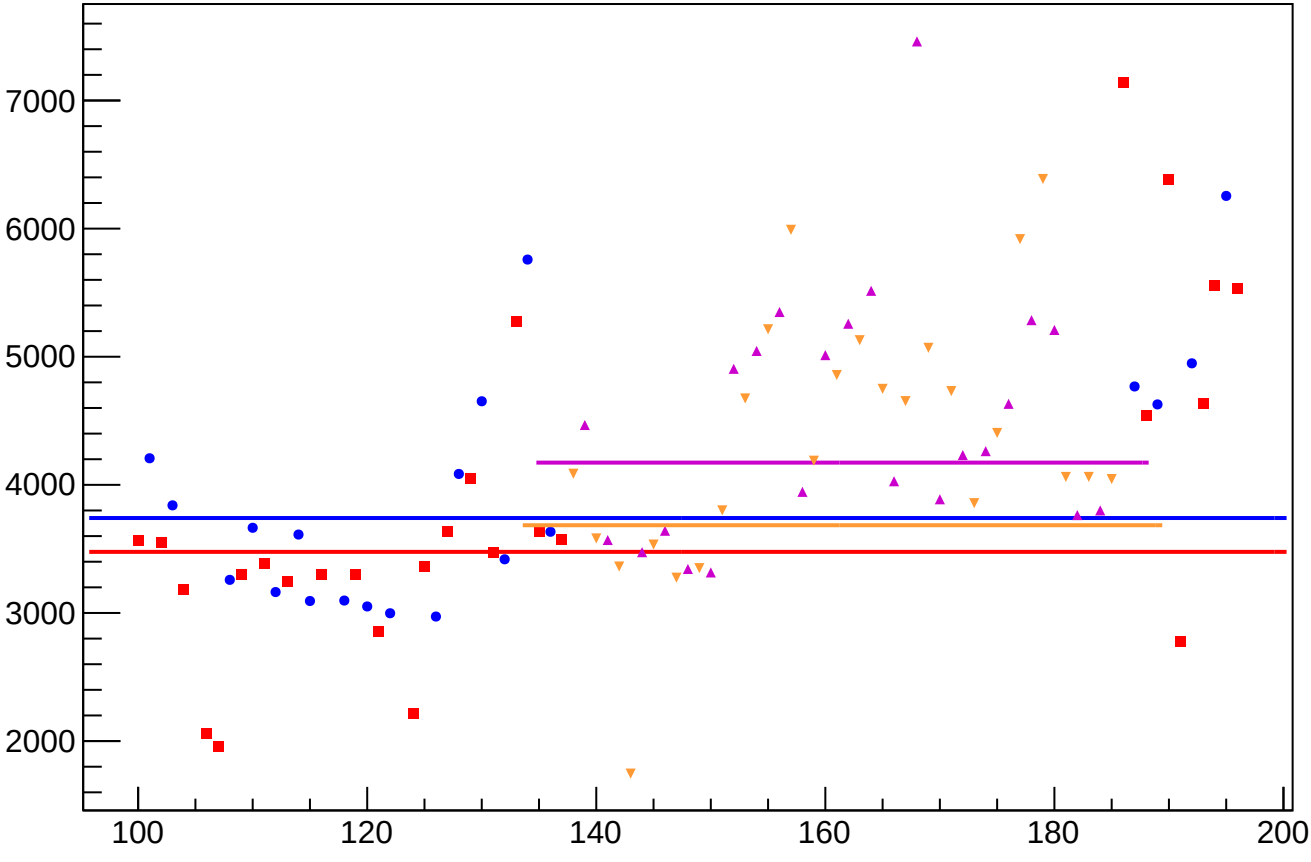
Right: 1044.612+/-802.914 $\chi^2$/NDF: 46.6/45

In: 300.403+/-773.016 $\chi^2$/NDF:32.7/42

Out: 531.992+/-680.484 $\chi^2$/NDF:57.8/50

All: 430.881+/-510.773 $\chi^2$/NDF: 90.6/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 3741.069+/-0.868 $\chi^2$/NDF: 867662.3/19

Left Out: 3684.762+/-0.627 $\chi^2$/NDF:3693687.2/24

Right Out: 3476.932+/-0.751 $\chi^2$/NDF: 1868011.4/25

Left In: 4173.550+/-0.704 $\chi^2$/NDF:1274967.5/22

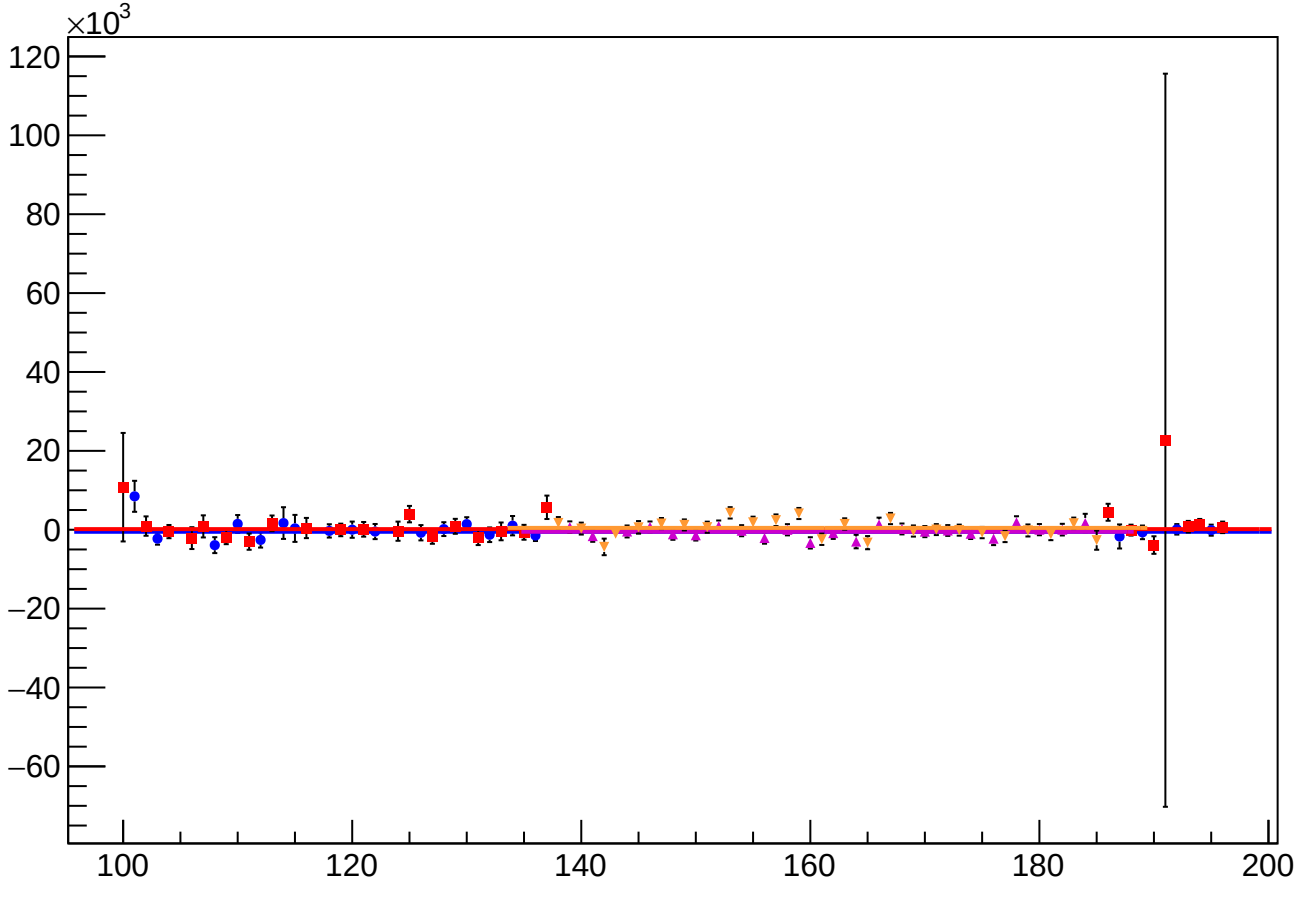
Left: 3900.975+/-0.468 $\chi^2$/NDF: 5237615.0/47

Right: 3590.019+/-0.568 $\chi^2$/NDF: 2788667.8/45

In: 4001.921+/-0.547 $\chi^2$/NDF:2292473.4/42

Out: 3599.393+/-0.481 $\chi^2$/NDF:5606852.2/50

All: 3775.135+/-0.361 $\chi^2$/NDF: 8204864.4/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.929+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.863+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.055 $\chi^2$/NDF:17.4/22

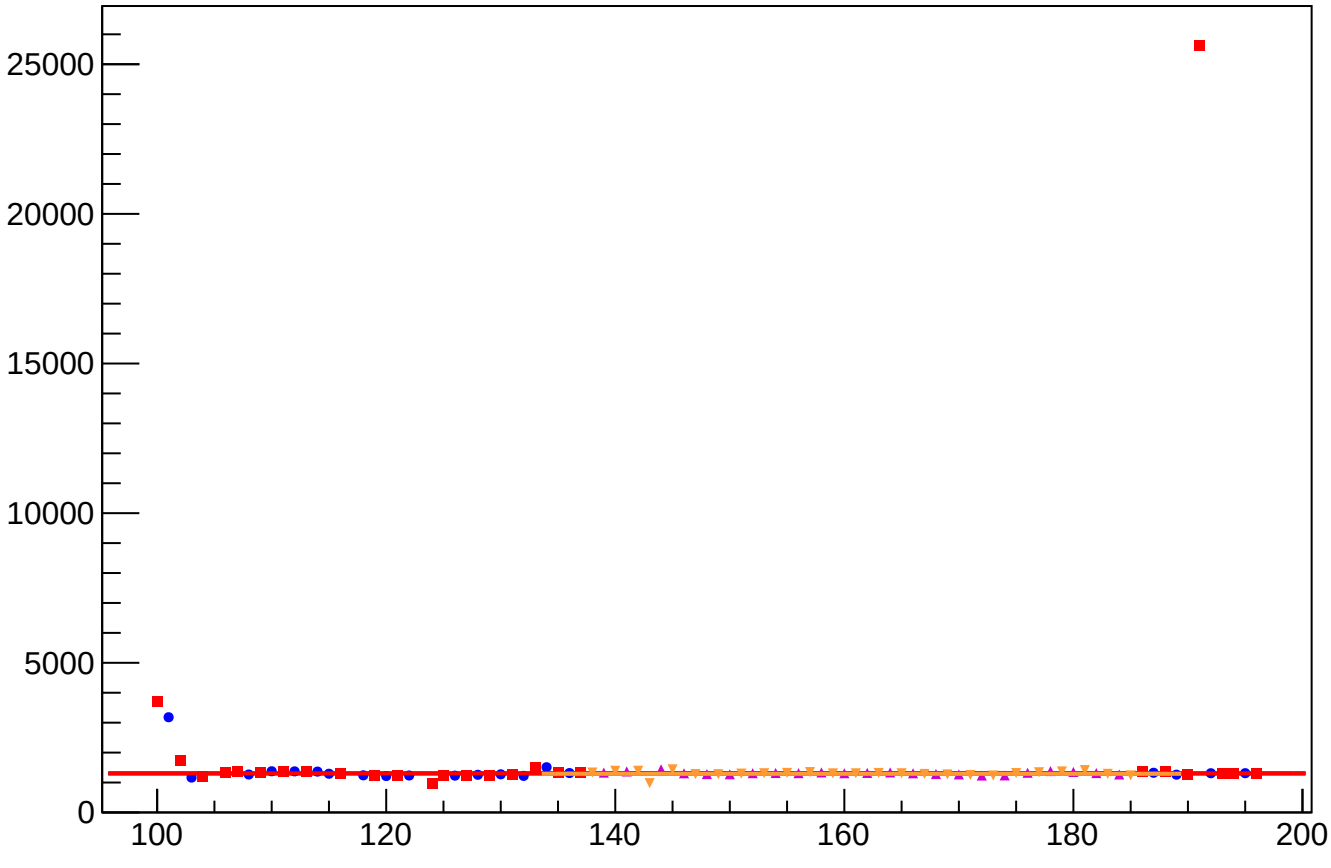
Left: 2.853+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.588+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.625+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.209+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.823+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511957.8/19

Left Out: 1291.211+/-0.208 $\chi^2$/NDF:230735.1/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.7/25

Left In: 1314.006+/-0.217 $\chi^2$/NDF:43044.7/22

Left: 1302.123+/-0.150 $\chi^2$/NDF: 279525.5/47

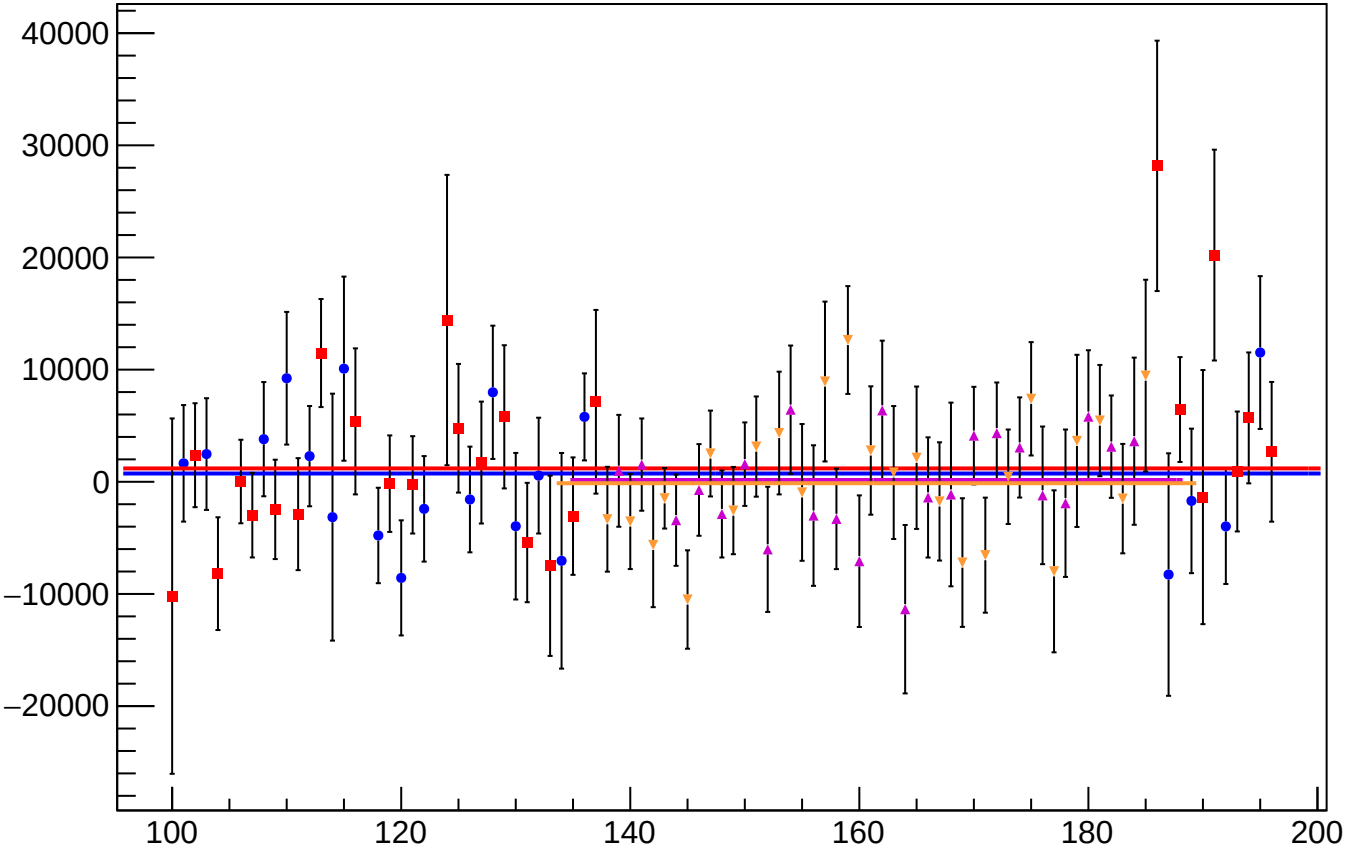
Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.3/45

In: 1310.353+/-0.176 $\chi^2$/NDF:555820.5/42

Out: 1296.795+/-0.166 $\chi^2$/NDF:592951.9/50

All: 1303.181+/-0.121 $\chi^2$/NDF: 1151926.1/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 738.920+/-1231.226 $\chi^2$/NDF: 18.3/19

Left Out: -127.273+/-977.231 $\chi^2$/NDF:28.6/24

Right Out: 1191.530+/-1079.945 $\chi^2$/NDF: 29.7/25

Left In: 159.452+/-1045.510 $\chi^2$/NDF:13.8/22

Left: 6.422+/-713.925 $\chi^2$/NDF: 42.4/47

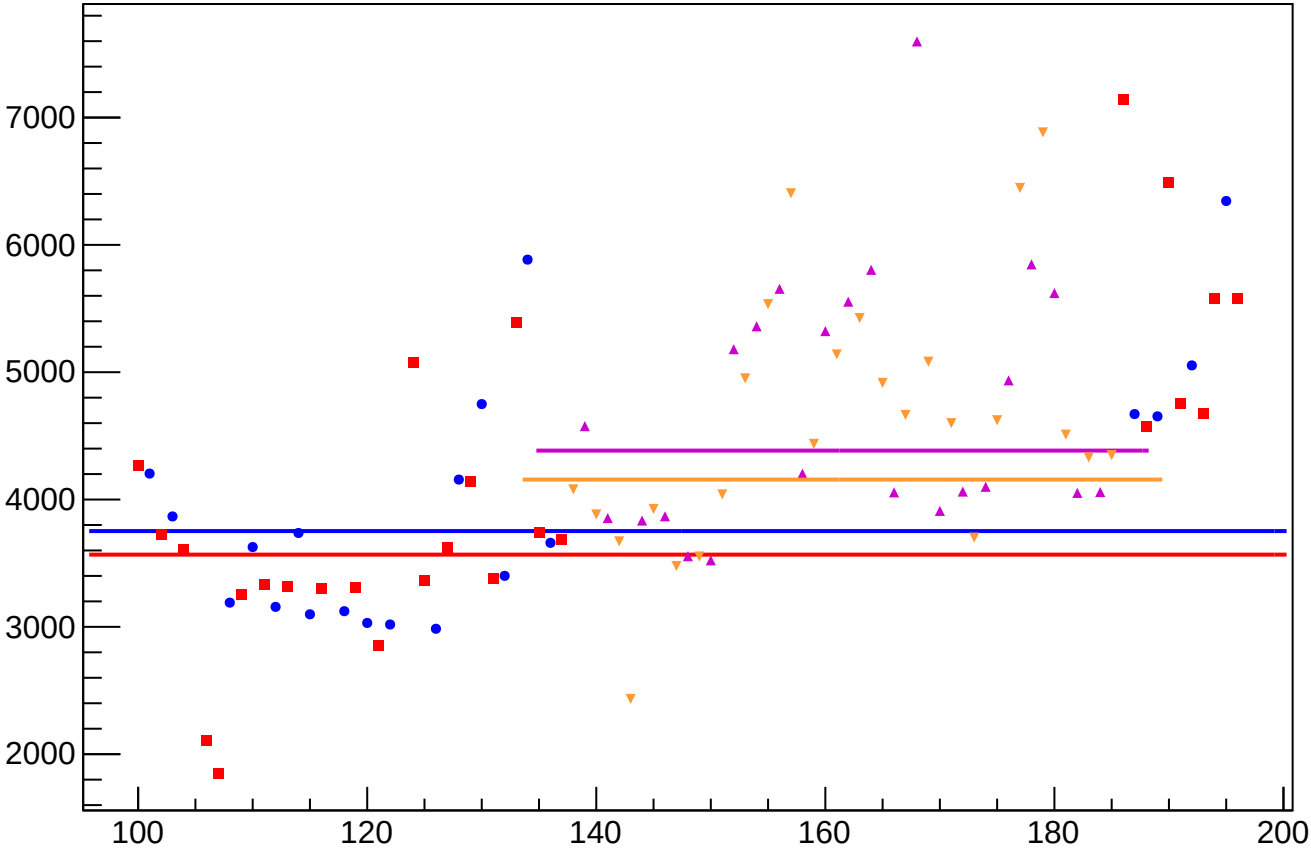
Right: 994.725+/-811.884 $\chi^2$/NDF: 48.1/45

In: 402.231+/-796.944 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.605 $\chi^2$/NDF:59.1/50

All: 437.384+/-536.128 $\chi^2$/NDF: 91.3/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 3752.245+/-0.871 $\chi^2$/NDF: 910787.1/19

Left Out: 4156.582+/-0.691 $\chi^2$/NDF:2080766.1/24

Right Out: 3567.226+/-0.764 $\chi^2$/NDF: 1961452.3/25

Left In: 4384.323+/-0.739 $\chi^2$/NDF:1255470.8/22

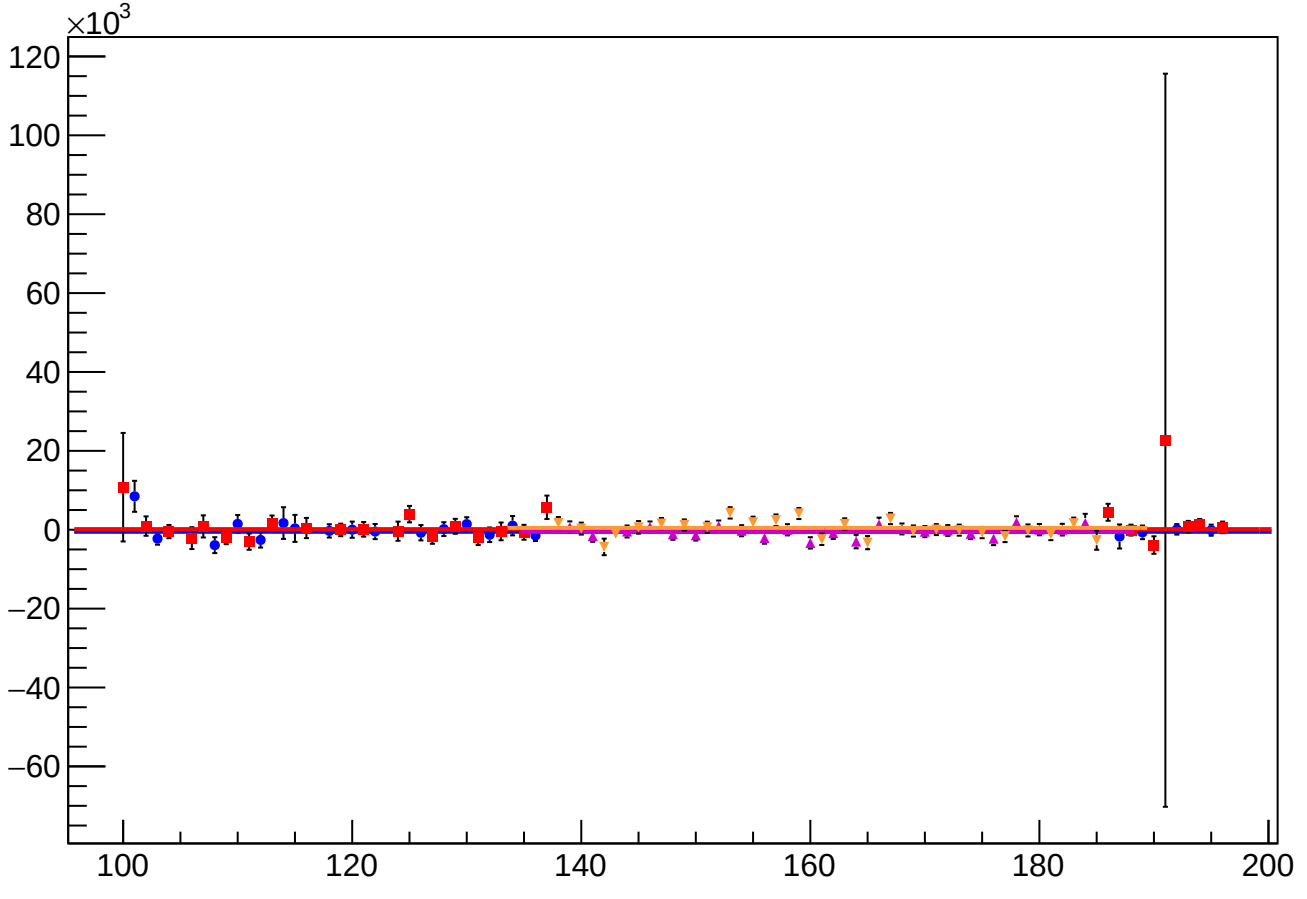
Left: 4262.773+/-0.505 $\chi^2$/NDF: 3386885.6/47

Right: 3647.676+/-0.574 $\chi^2$/NDF: 2897764.7/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472522.0/42

Out: 3891.257+/-0.512 $\chi^2$/NDF:4369703.1/50

All: 3994.553+/-0.379 $\chi^2$/NDF: 6932032.2/93




Right In: -515.315+/-422.202 $\chi^2$/NDF: 14.6/19

Left Out: 467.933+/-294.257 $\chi^2$/NDF:44.1/24

Right Out: 156.858+/-387.636 $\chi^2$/NDF: 23.6/25

Left In: -503.558+/-307.056 $\chi^2$/NDF:17.4/22

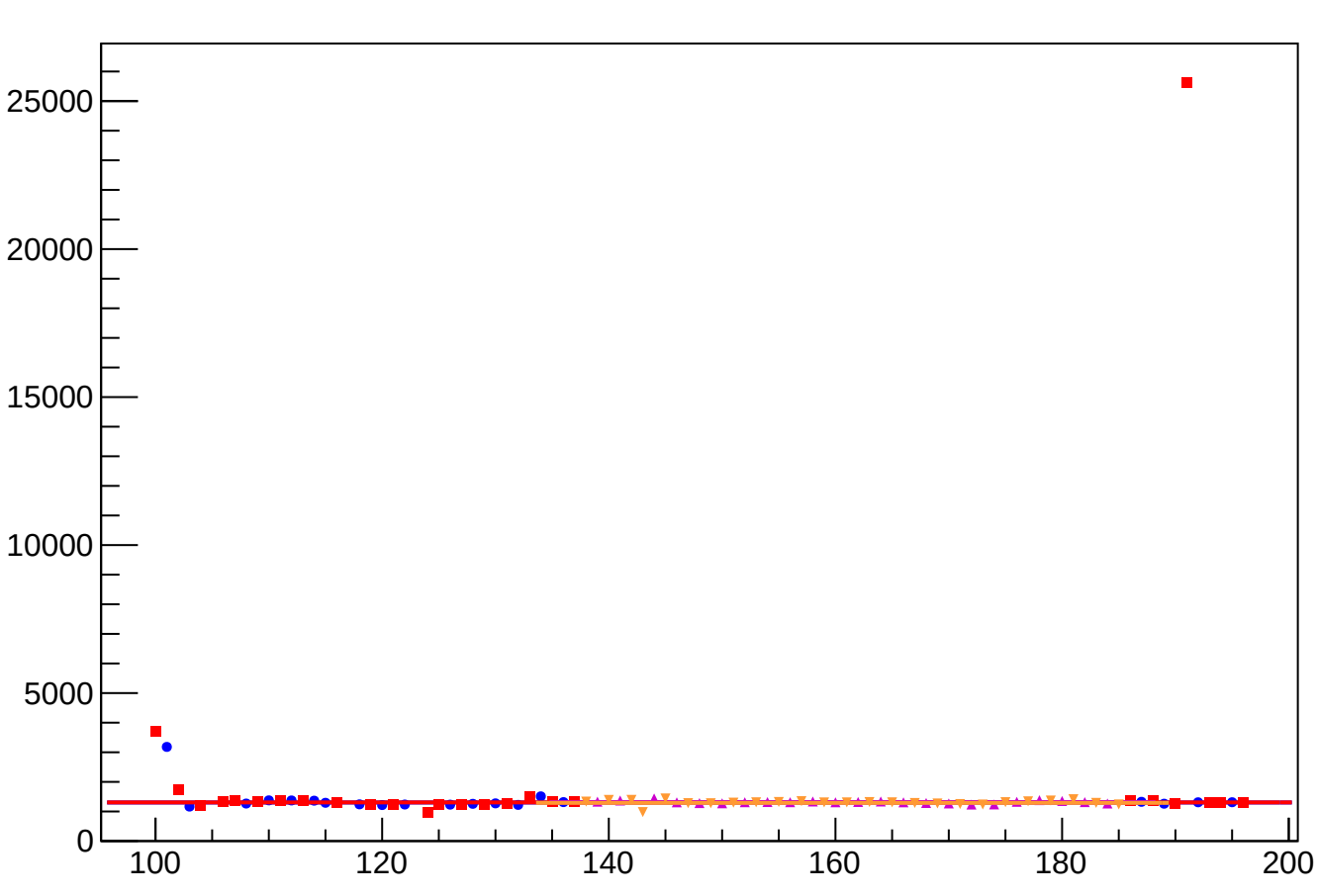
Left: 2.855+/-212.452 $\chi^2$/NDF: 66.7/47

Right: -150.591+/-285.539 $\chi^2$/NDF: 39.6/45

In: -507.626+/-248.327 $\chi^2$/NDF:32.0/42

Out: 354.210+/-234.377 $\chi^2$/NDF:68.1/50

All: -51.822+/-170.448 $\chi^2$/NDF: 106.5/93




Right In: 1303.448+/-0.299 $\chi^2$/NDF: 511958.0/19

Left Out: 1291.212+/-0.208 $\chi^2$/NDF:230737.6/24

Right Out: 1306.477+/-0.274 $\chi^2$/NDF: 360247.8/25

Left In: 1314.007+/-0.217 $\chi^2$/NDF:43046.8/22

Left: 1302.125+/-0.150 $\chi^2$/NDF: 279530.2/47

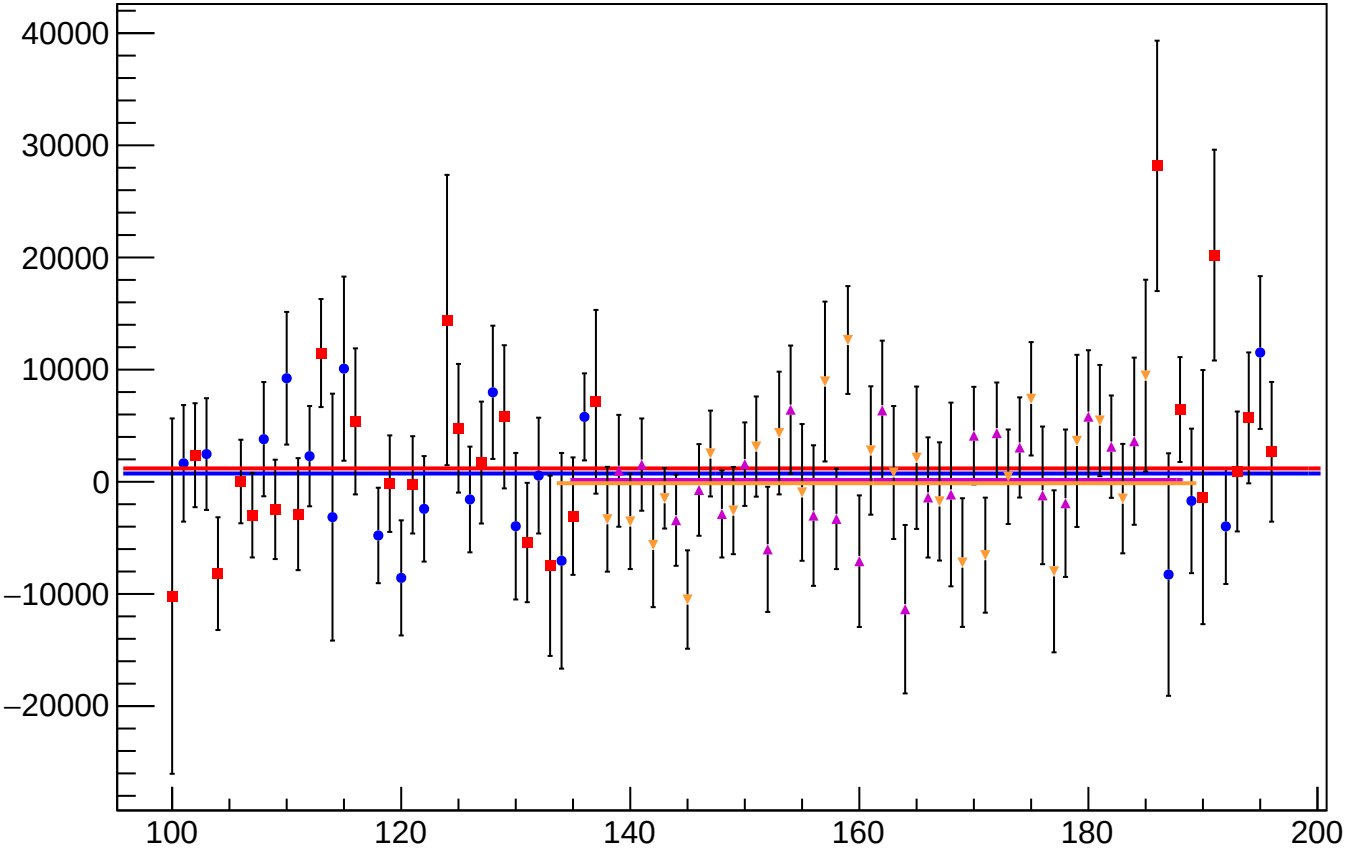
Right: 1305.092+/-0.202 $\chi^2$/NDF: 872261.6/45

In: 1310.354+/-0.176 $\chi^2$/NDF:555823.1/42

Out: 1296.796+/-0.166 $\chi^2$/NDF:592954.1/50

All: 1303.182+/-0.121 $\chi^2$/NDF: 1151930.9/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 738.910+/-1231.223 $\chi^2$/NDF: 18.3/19

Left Out: -127.271+/-977.232 $\chi^2$/NDF:28.6/24

Right Out: 1191.522+/-1079.943 $\chi^2$/NDF: 29.7/25

Left In: 159.454+/-1045.511 $\chi^2$/NDF:13.8/22

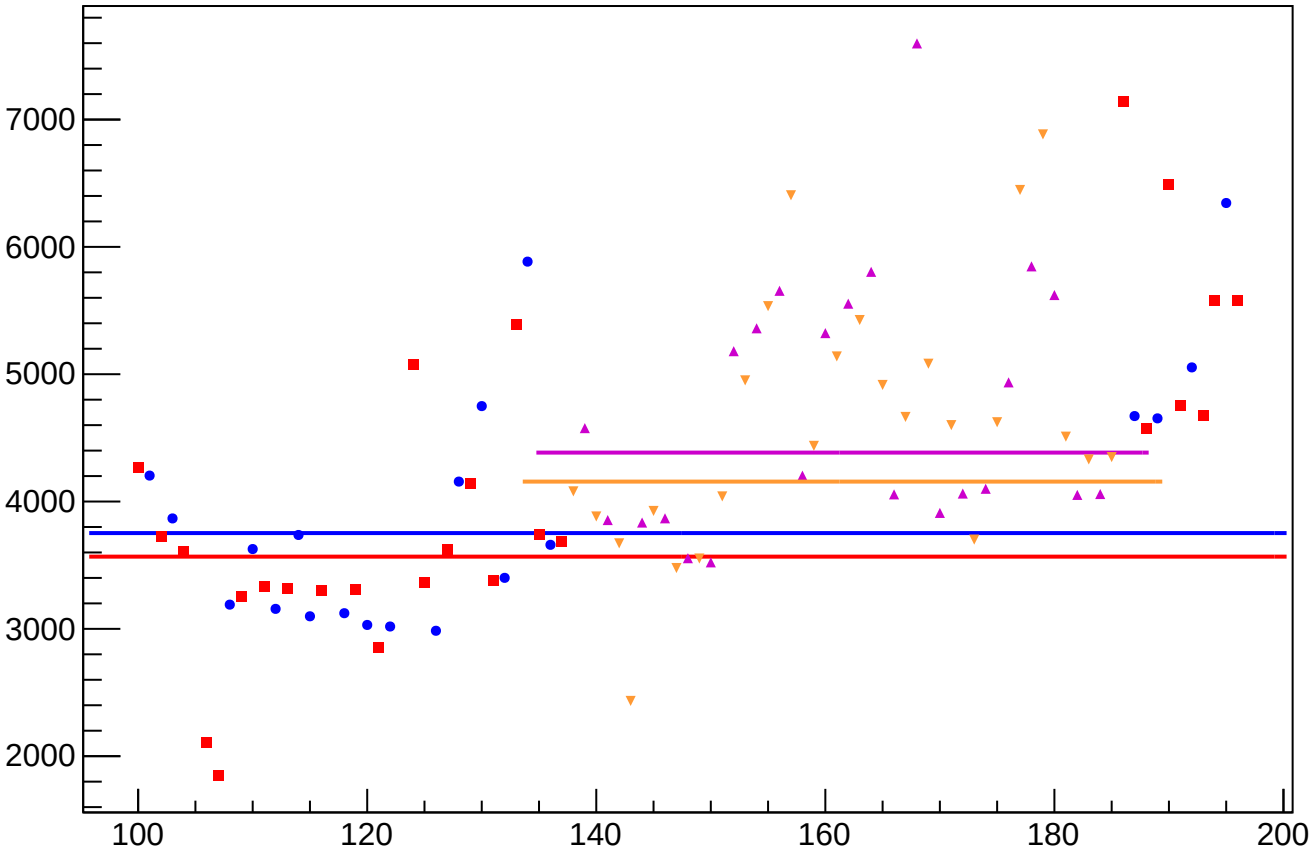
Left: 6.424+/-713.926 $\chi^2$/NDF: 42.4/47

Right: 994.716+/-811.882 $\chi^2$/NDF: 48.1/45

In: 402.228+/-796.945 $\chi^2$/NDF:32.2/42

Out: 466.445+/-724.606 $\chi^2$/NDF:59.1/50

All: 437.383+/-536.128 $\chi^2$/NDF: 91.3/93




Right In: 3752.236+/-0.871 $\chi^2$/NDF: 910800.7/19

Left Out: 4156.588+/-0.691 $\chi^2$/NDF:2080769.0/24

Right Out: 3567.219+/-0.764 $\chi^2$/NDF: 1961465.1/25

Left In: 4384.329+/-0.739 $\chi^2$/NDF:1255475.0/22

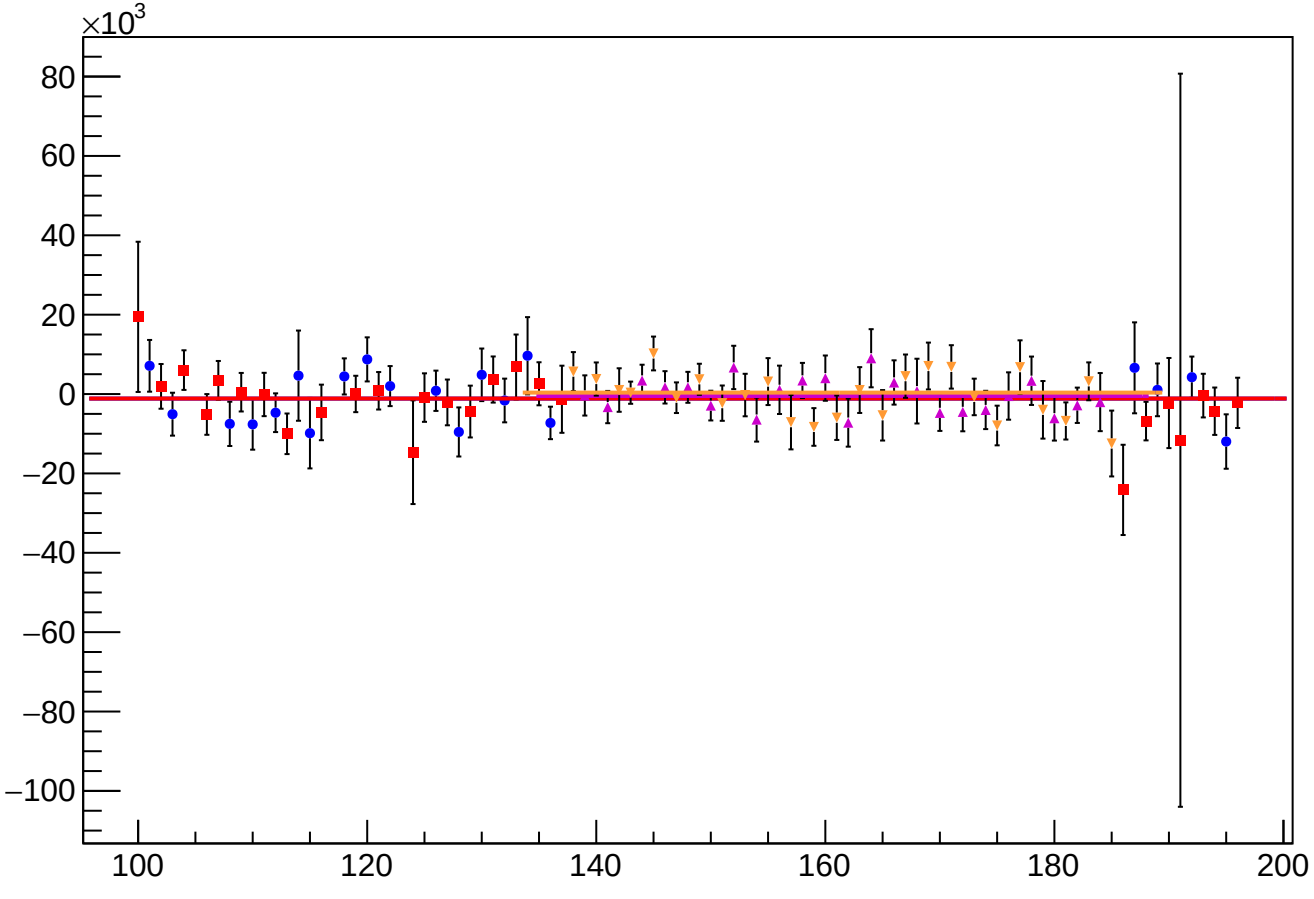
Left: 4262.780+/-0.505 $\chi^2$/NDF: 3386892.6/47

Right: 3647.669+/-0.574 $\chi^2$/NDF: 2897790.9/45

In: 4119.502+/-0.564 $\chi^2$/NDF:2472554.8/42

Out: 3891.256+/-0.512 $\chi^2$/NDF:4369734.2/50

All: 3994.552+/-0.379 $\chi^2$/NDF: 6932096.0/93




Right In: -1147.735+/-1317.034 $\chi^2$/NDF: 21.7/19

Left Out: 362.528+/-979.860 $\chi^2$/NDF:27.7/24

Right Out: -1132.375+/-1191.597 $\chi^2$/NDF: 18.0/25

Left In: -497.522+/-1044.707 $\chi^2$/NDF:13.9/22

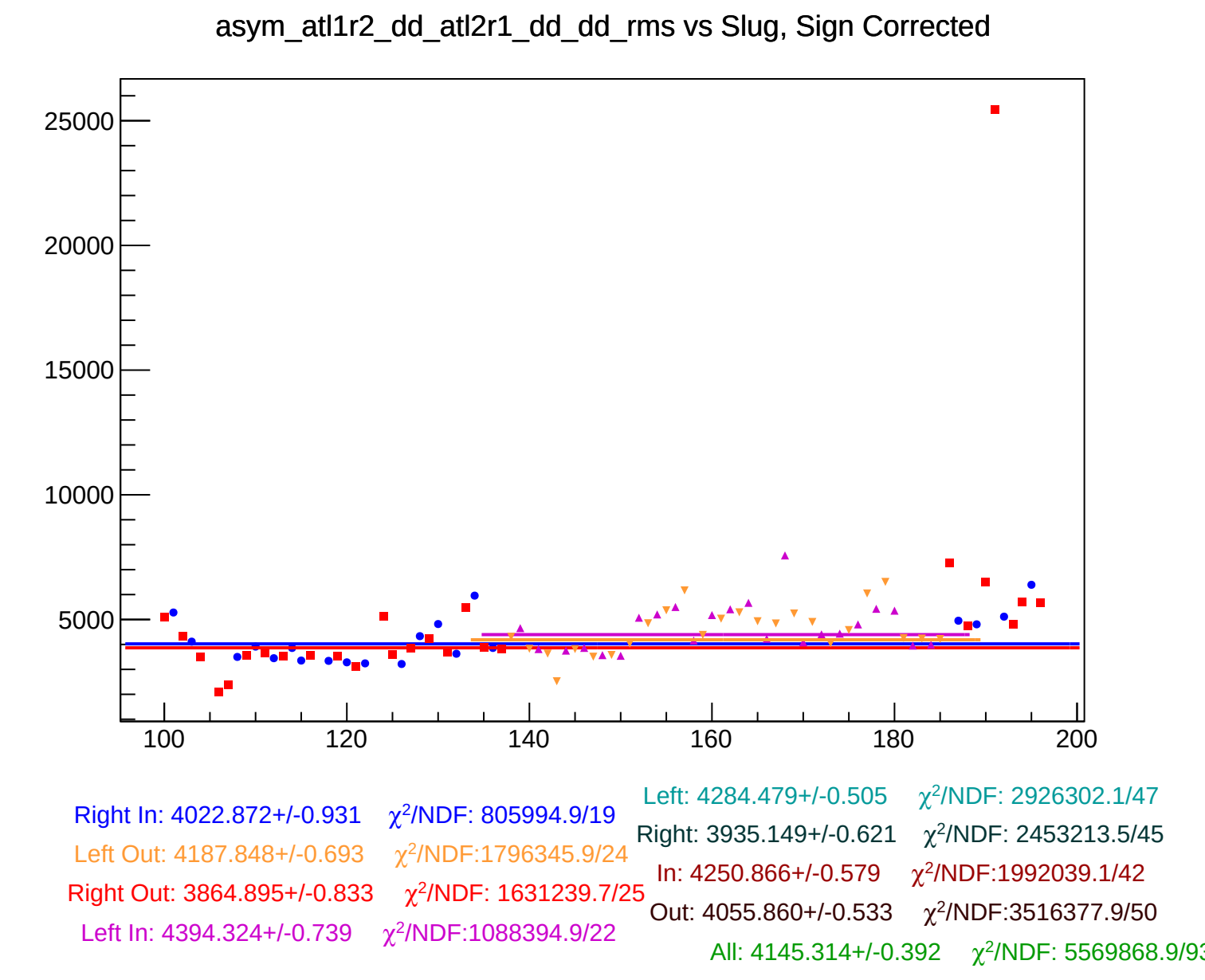
Left: -39.978+/-714.692 $\chi^2$/NDF: 41.9/47

Right: -1139.289+/-883.614 $\chi^2$/NDF: 39.7/45

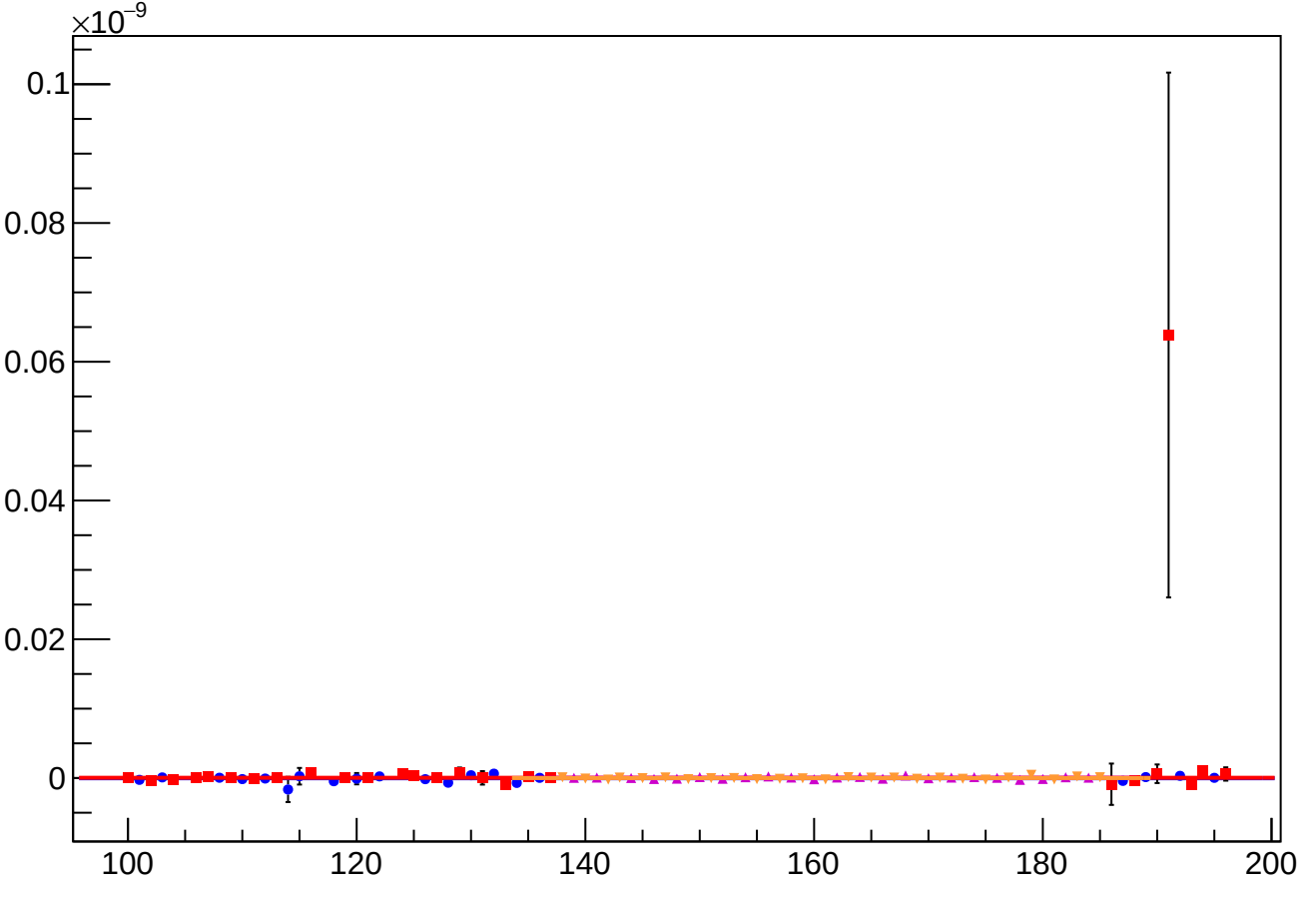
In: -748.638+/-818.476 $\chi^2$/NDF:35.8/42

Out: -240.530+/-756.837 $\chi^2$/NDF:46.5/50

All: -474.733+/-555.679 $\chi^2$/NDF: 82.5/93


asym_atl1r2_dd_atl2r1_dd_dd_rms vs Slug, Sign Corrected
25000
20000
15000
10000
5000
100
120
140
160
180
200
Right In: 4022.872+/-0.931 χ²/NDF: 805994.9/19
Left Out: 4187.848+/-0.693 χ²/NDF:1796345.9/24
Right Out: 3864.895+/-0.833 χ²/NDF: 1631239.7/25
Left In: 4394.324+/-0.739 χ²/NDF:1088394.9/22
Left: 4284.479+/-0.505 χ²/NDF: 2926302.1/47
Right: 3935.149+/-0.621 χ²/NDF: 2453213.5/45
In: 4250.866+/-0.579 χ²/NDF:1992039.1/42
Out: 4055.860+/-0.533 χ²/NDF:3516377.9/50
All: 4145.314+/-0.392 χ²/NDF: 5569868.9/93

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:30.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.0/22

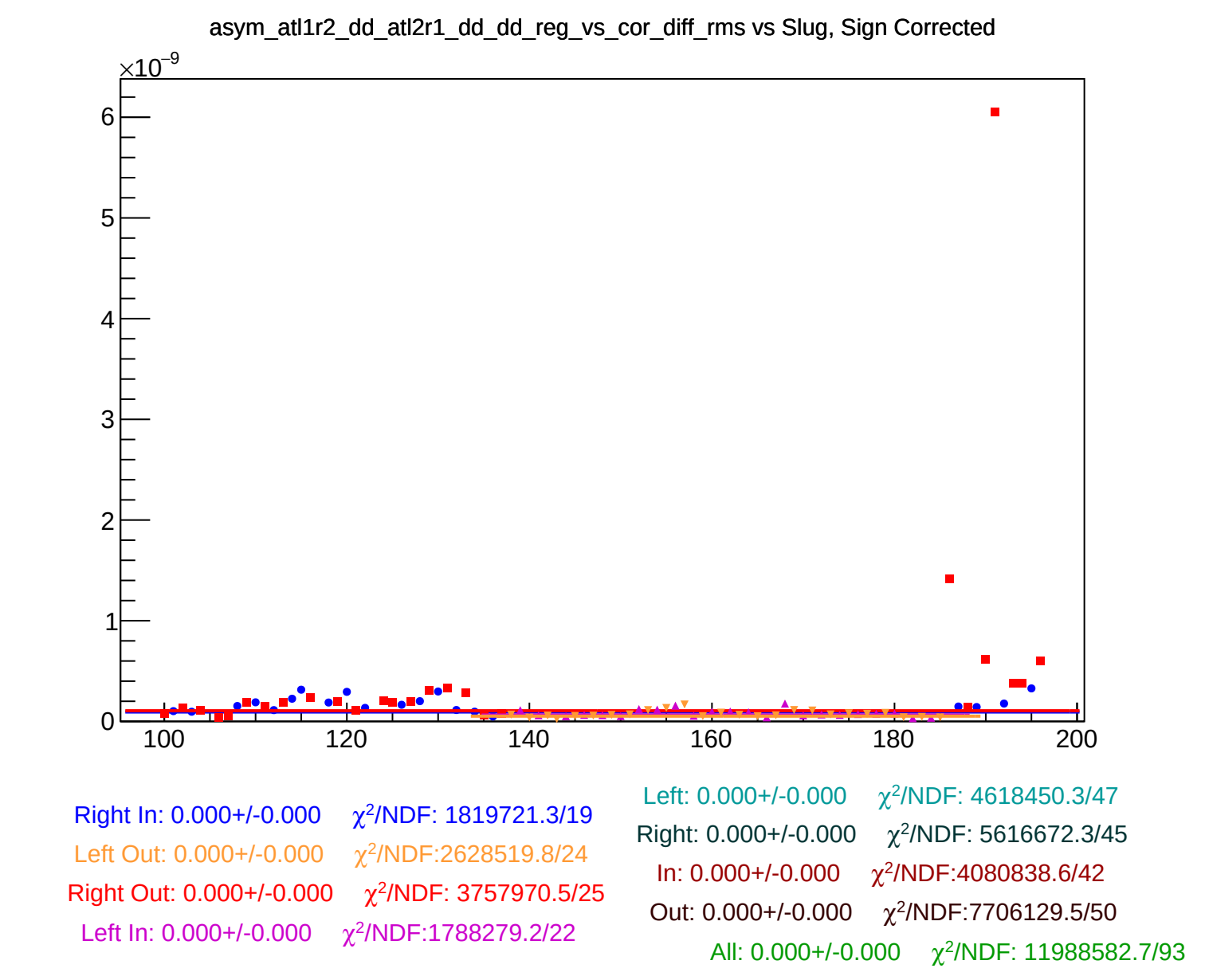
Left: 0.000+/-0.000 $\chi^2$/NDF: 48.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.9/45

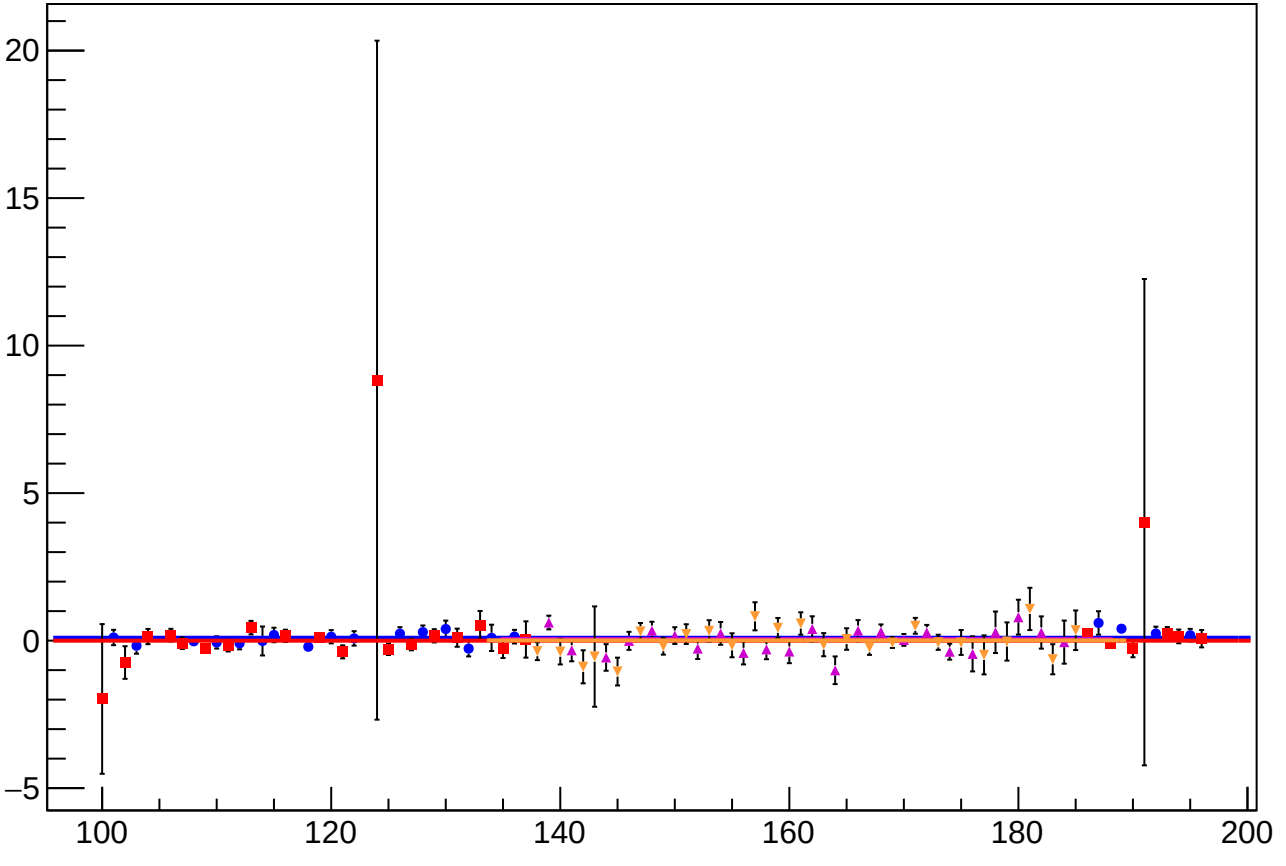
In: 0.000+/-0.000 $\chi^2$/NDF:35.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 92.9/93


asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
6
5
4
3
2
1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1819721.3/19
Left Out: 0.000+/-0.000 χ²/NDF:2628519.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 3757970.5/25
Left In: 0.000+/-0.000 χ²/NDF:1788279.2/22
Left: 0.000+/-0.000 χ²/NDF: 4618450.3/47
Right: 0.000+/-0.000 χ²/NDF: 5616672.3/45
In: 0.000+/-0.000 χ²/NDF:4080838.6/42
Out: 0.000+/-0.000 χ²/NDF:7706129.5/50
All: 0.000+/-0.000 χ²/NDF: 11988582.7/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

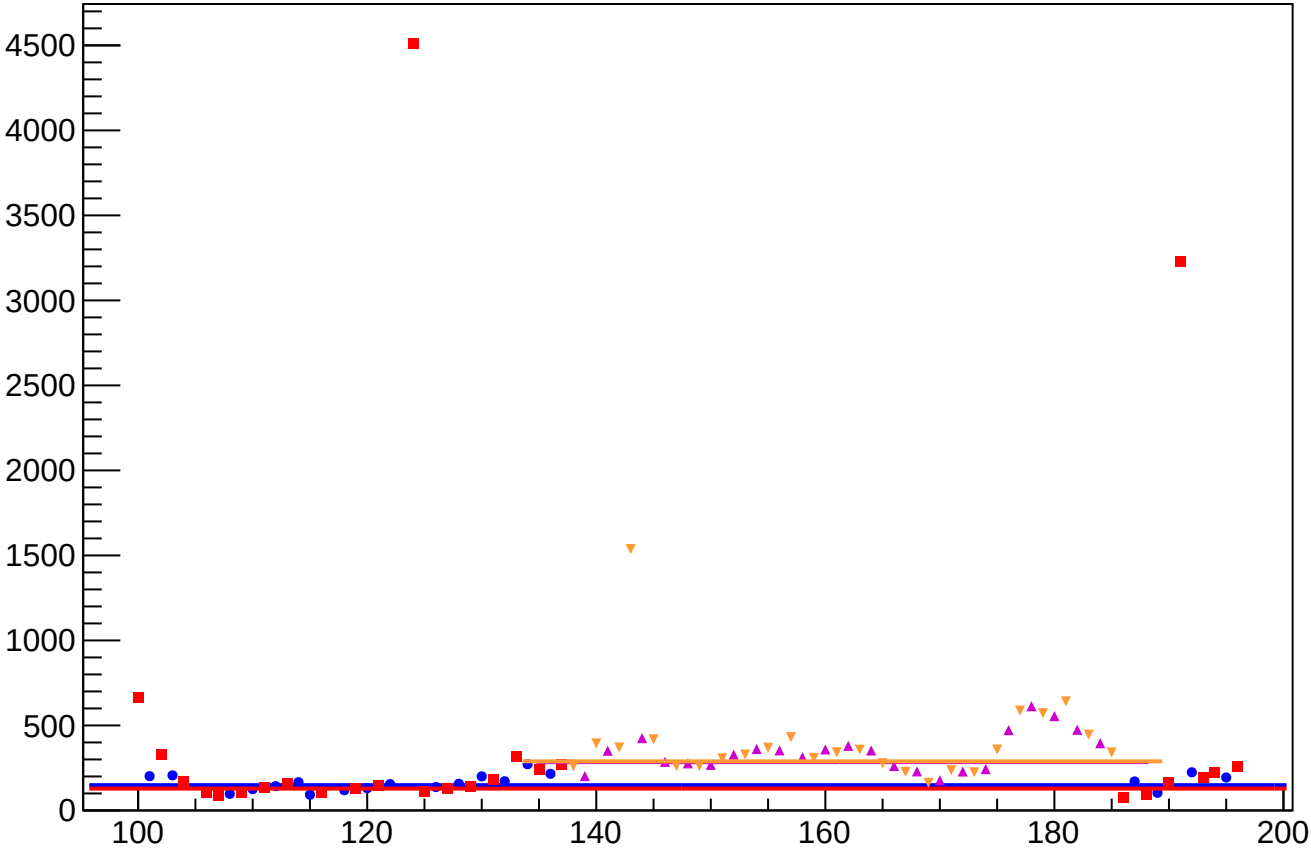
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

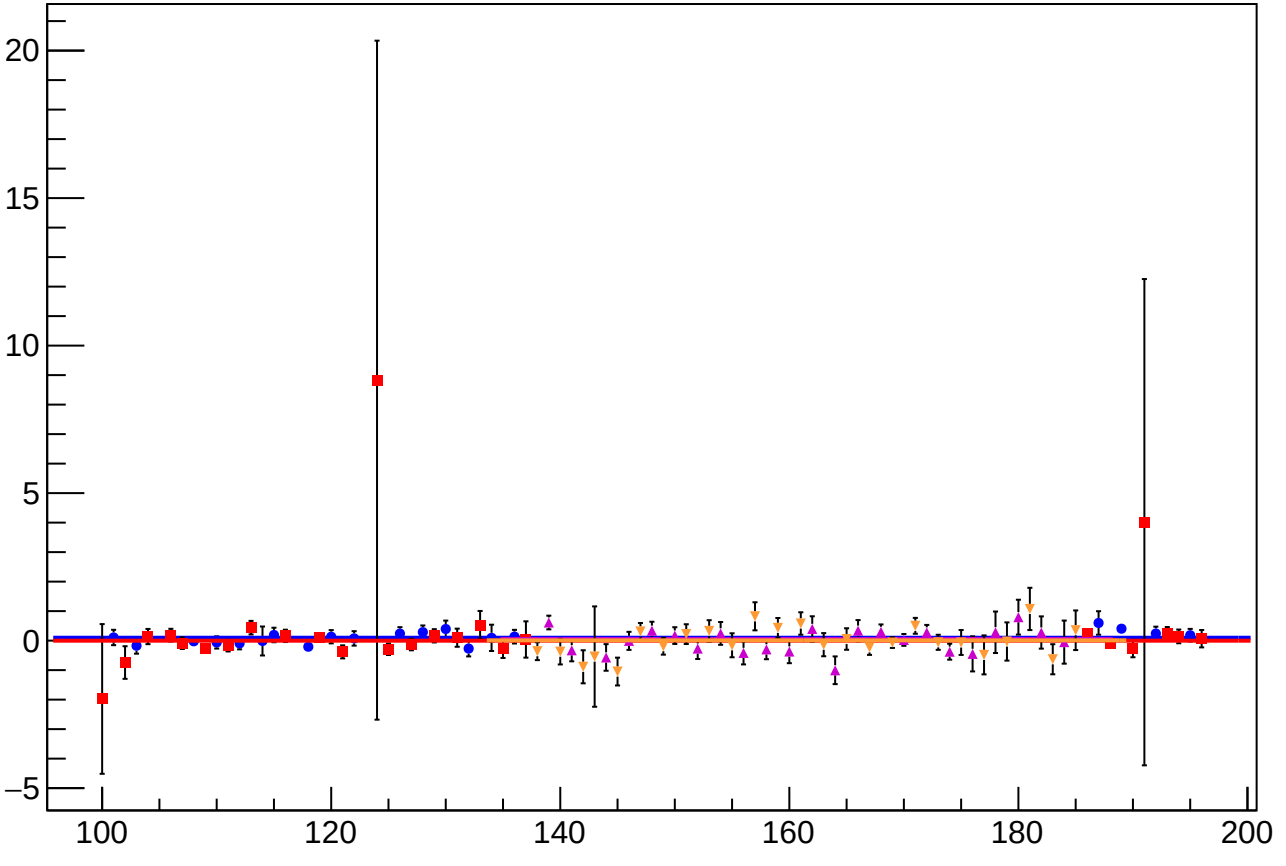
Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

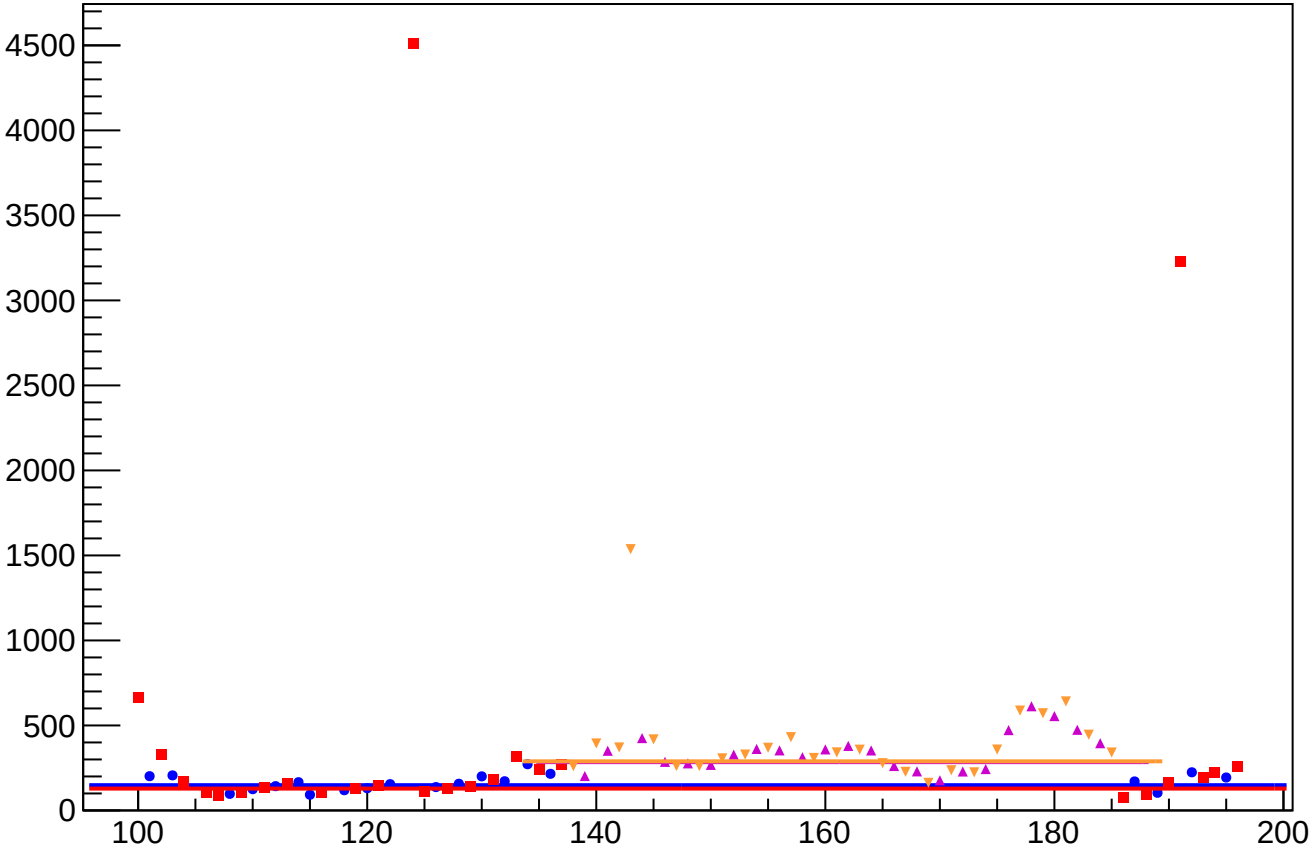
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480088.6/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648197.0/24

Right Out: 128.630+/-0.030 $\chi^2$/NDF: 3443115.5/25

Left In: 284.168+/-0.050 $\chi^2$/NDF:3077521.1/22

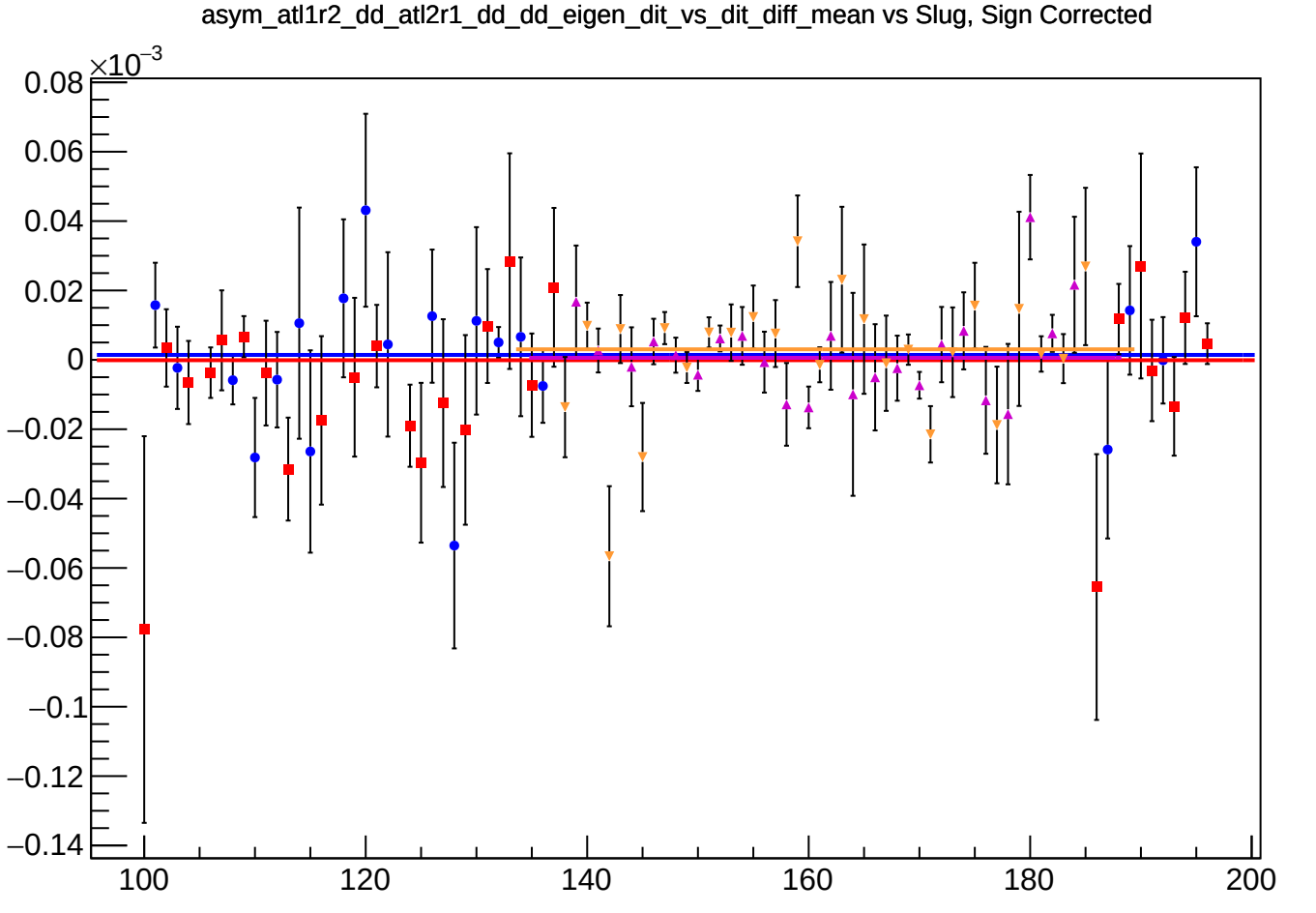
Left: 286.524+/-0.035 $\chi^2$/NDF: 7730236.9/47

Right: 136.870+/-0.023 $\chi^2$/NDF: 5108092.3/45

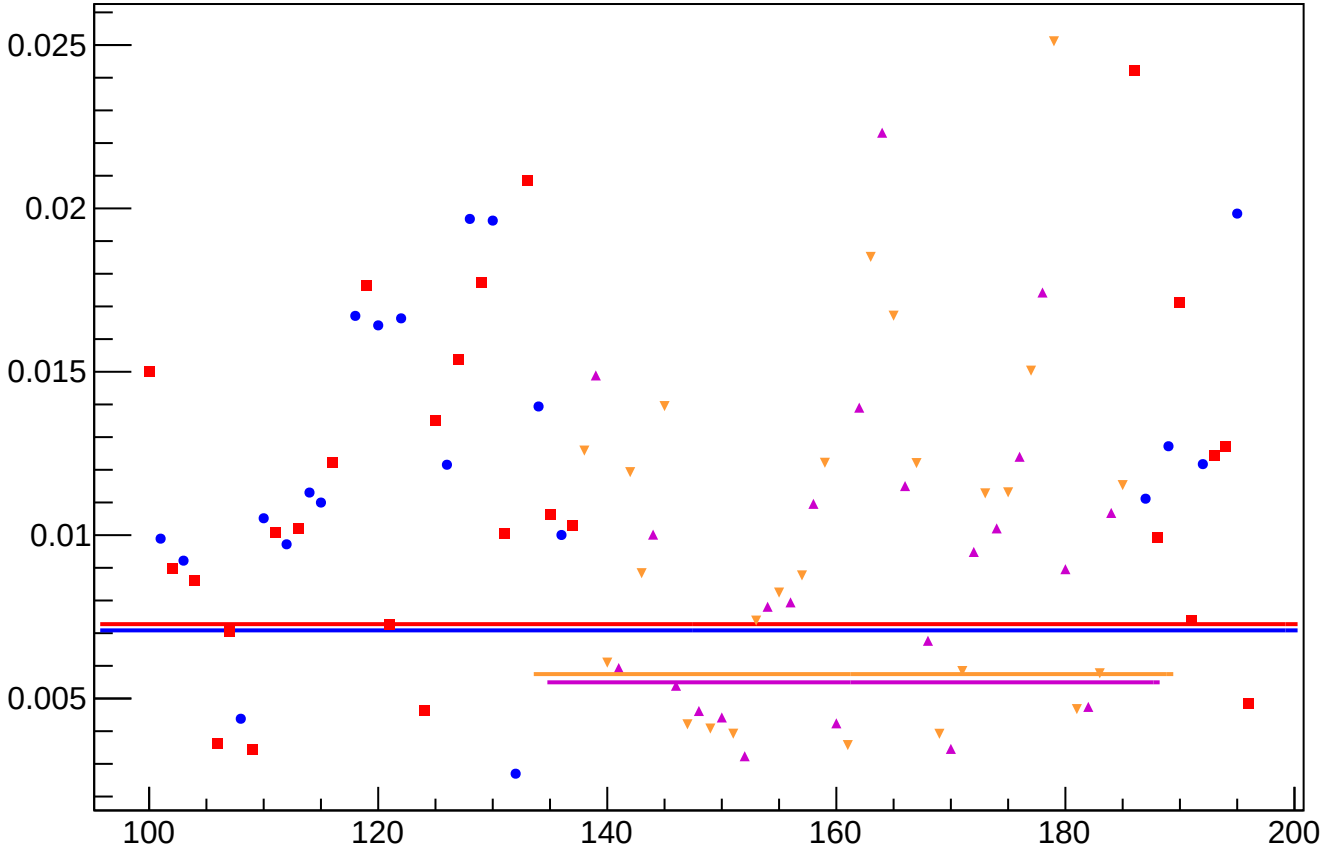
In: 194.864+/-0.029 $\chi^2$/NDF:9439437.0/42

Out: 170.577+/-0.026 $\chi^2$/NDF:15613575.7/50

All: 181.229+/-0.019 $\chi^2$/NDF: 25445022.6/93


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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 18.8/19
Left Out: 0.000+/-0.000 χ²/NDF:42.2/24
Right Out: -0.000+/-0.000 χ²/NDF: 23.9/25
Left In: 0.000+/-0.000 χ²/NDF:33.2/22
Left: 0.000+/-0.000 χ²/NDF: 76.7/47
Right: 0.000+/-0.000 χ²/NDF: 42.9/45
In: 0.000+/-0.000 χ²/NDF:52.1/42
Out: 0.000+/-0.000 χ²/NDF:67.3/50
All: 0.000+/-0.000 χ²/NDF: 120.0/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 6031592.9/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:8128513.8/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 5084188.5/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:6937299.0/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 15093250.6/47

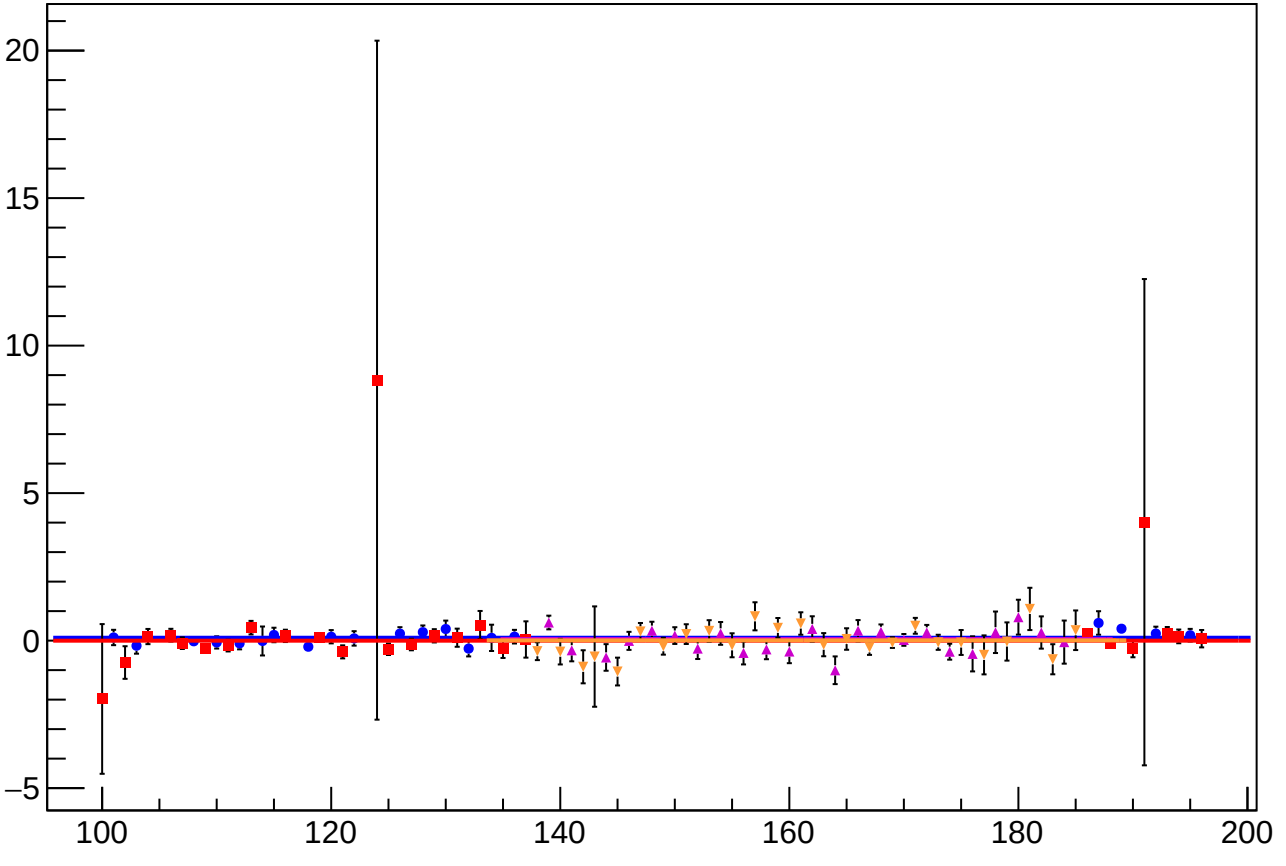
Right: 0.007+/-0.000 $\chi^2$/NDF: 11121070.9/45

In: 0.006+/-0.000 $\chi^2$/NDF:13474040.4/42

Out: 0.006+/-0.000 $\chi^2$/NDF:13772298.6/50

All: 0.006+/-0.000 $\chi^2$/NDF: 27302294.7/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

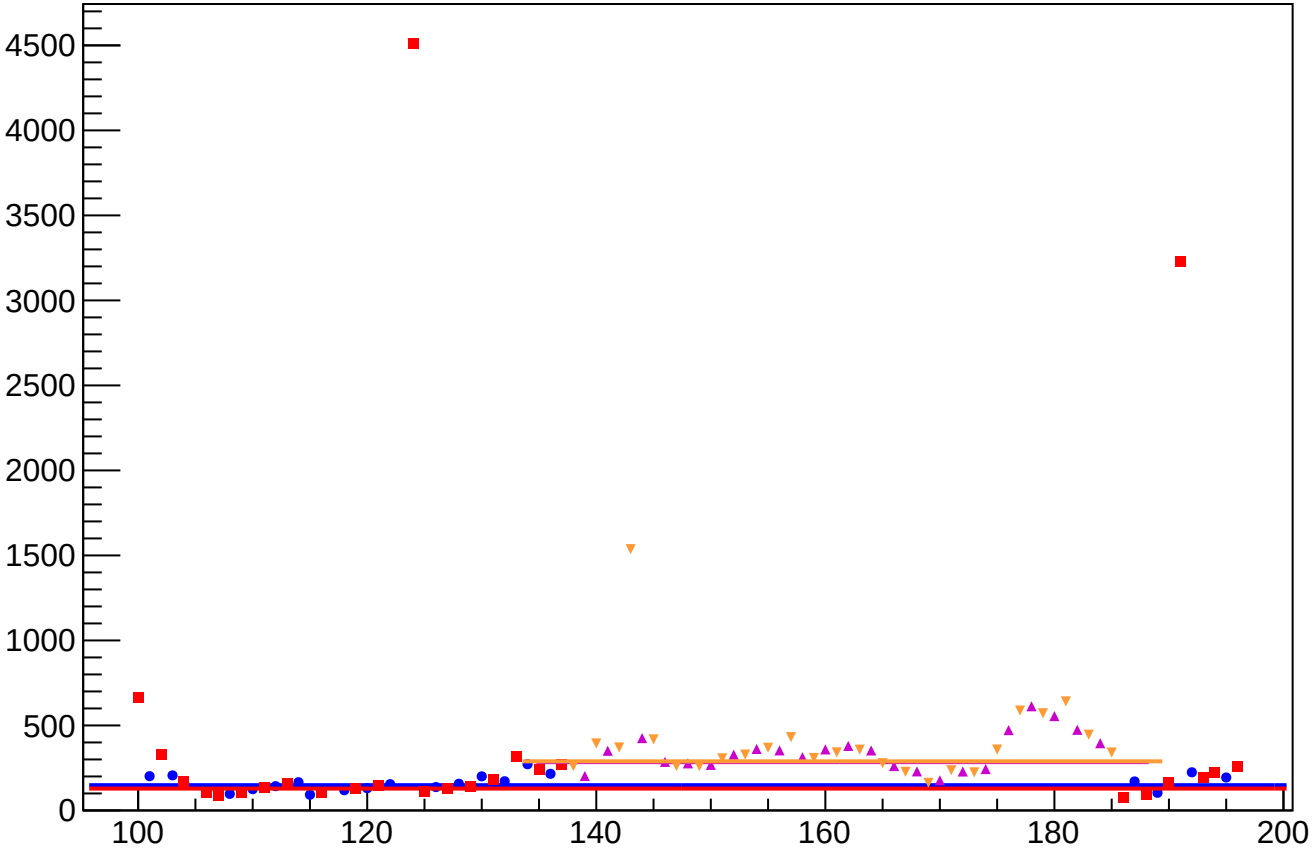
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

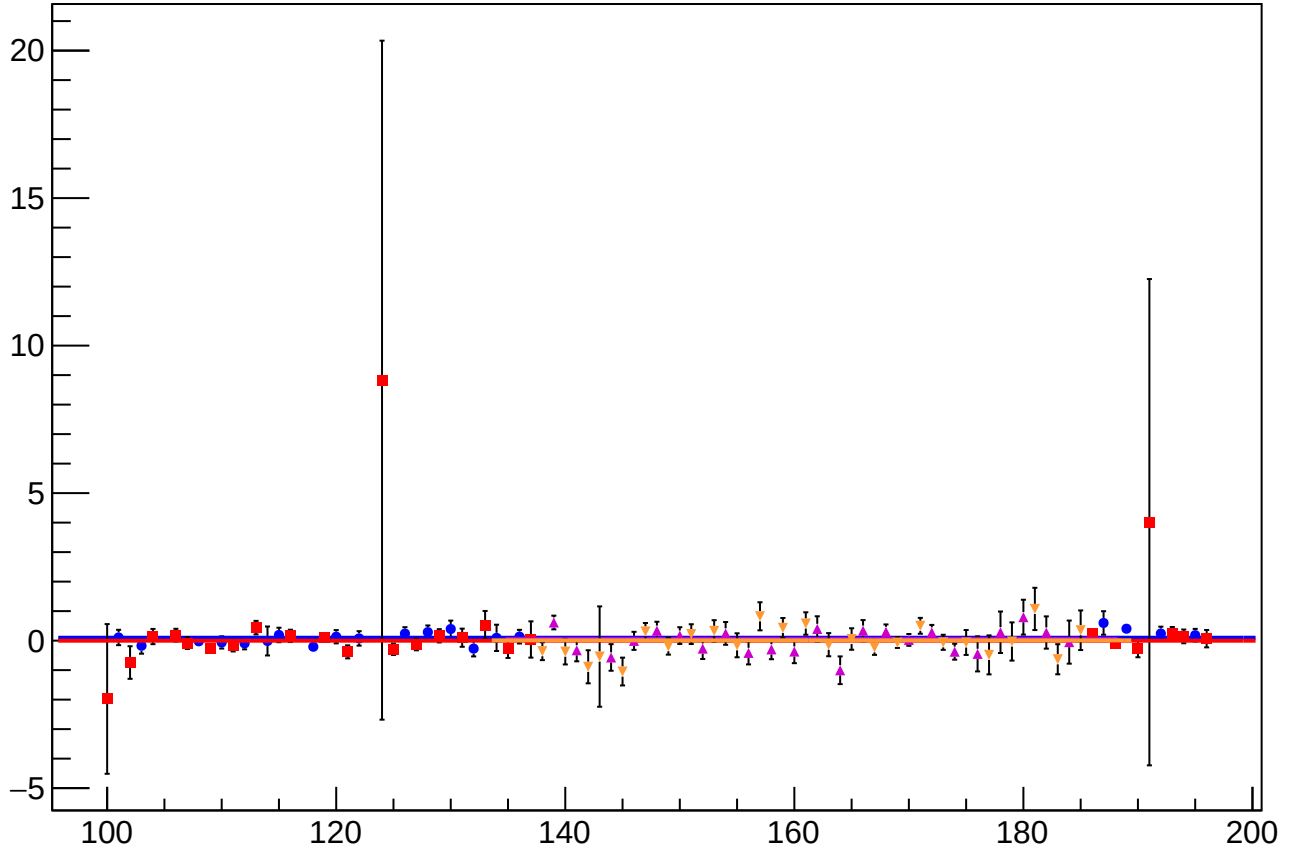
Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.098+/-0.051 $\chi^2$/NDF: 17.1/19

Left Out: 0.009+/-0.071 $\chi^2$/NDF:28.9/24

Right Out: -0.002+/-0.042 $\chi^2$/NDF: 27.5/25

Left In: 0.053+/-0.070 $\chi^2$/NDF:27.8/22

Left: 0.032+/-0.050 $\chi^2$/NDF: 56.8/47

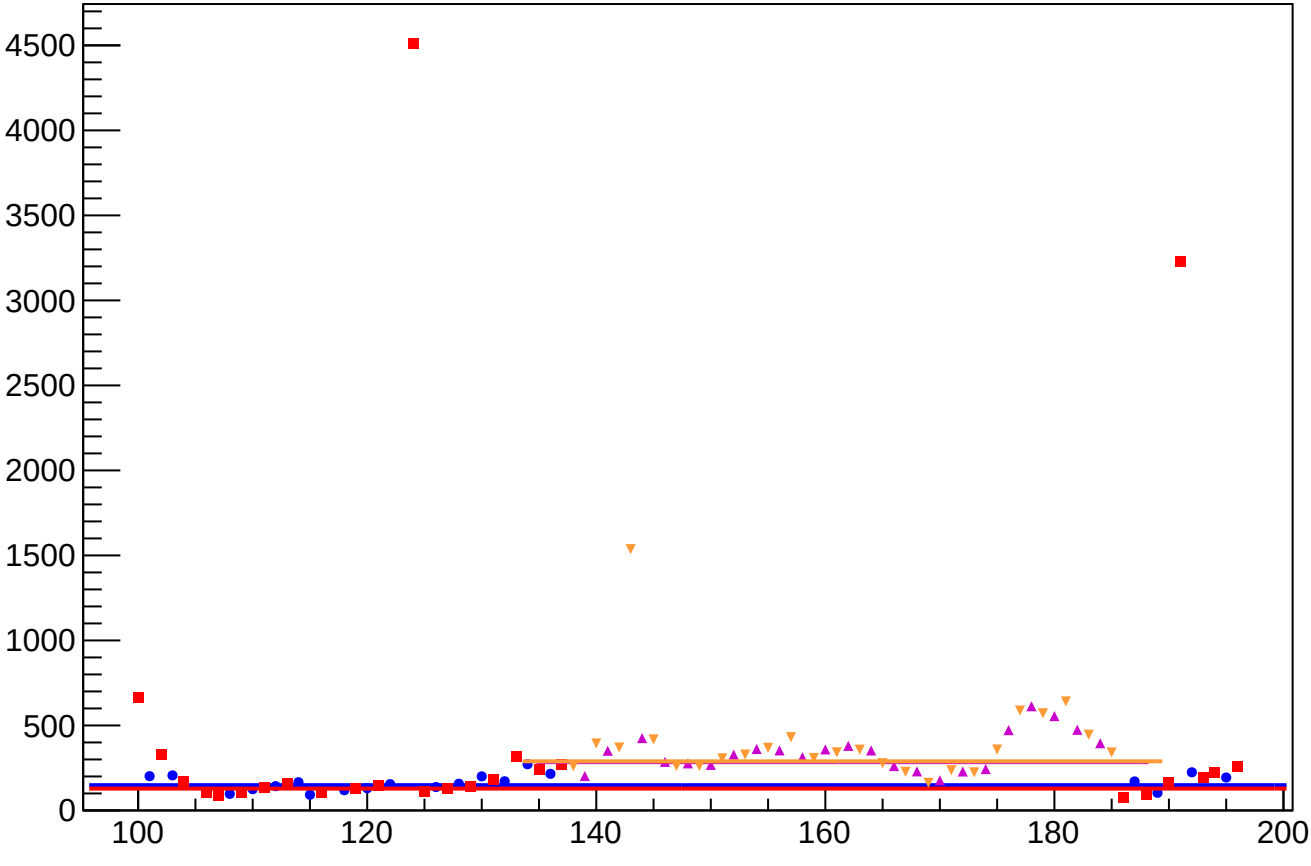
Right: 0.039+/-0.032 $\chi^2$/NDF: 46.9/45

In: 0.082+/-0.041 $\chi^2$/NDF:45.1/42

Out: 0.001+/-0.036 $\chi^2$/NDF:56.4/50

All: 0.037+/-0.027 $\chi^2$/NDF: 103.7/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 148.685+/-0.036 $\chi^2$/NDF: 1480056.0/19

Left Out: 288.922+/-0.050 $\chi^2$/NDF:4648388.8/24

Right Out: 128.632+/-0.030 $\chi^2$/NDF: 3442949.3/25

Left In: 284.170+/-0.050 $\chi^2$/NDF:3077626.7/22

Left: 286.525+/-0.035 $\chi^2$/NDF: 7730531.8/47

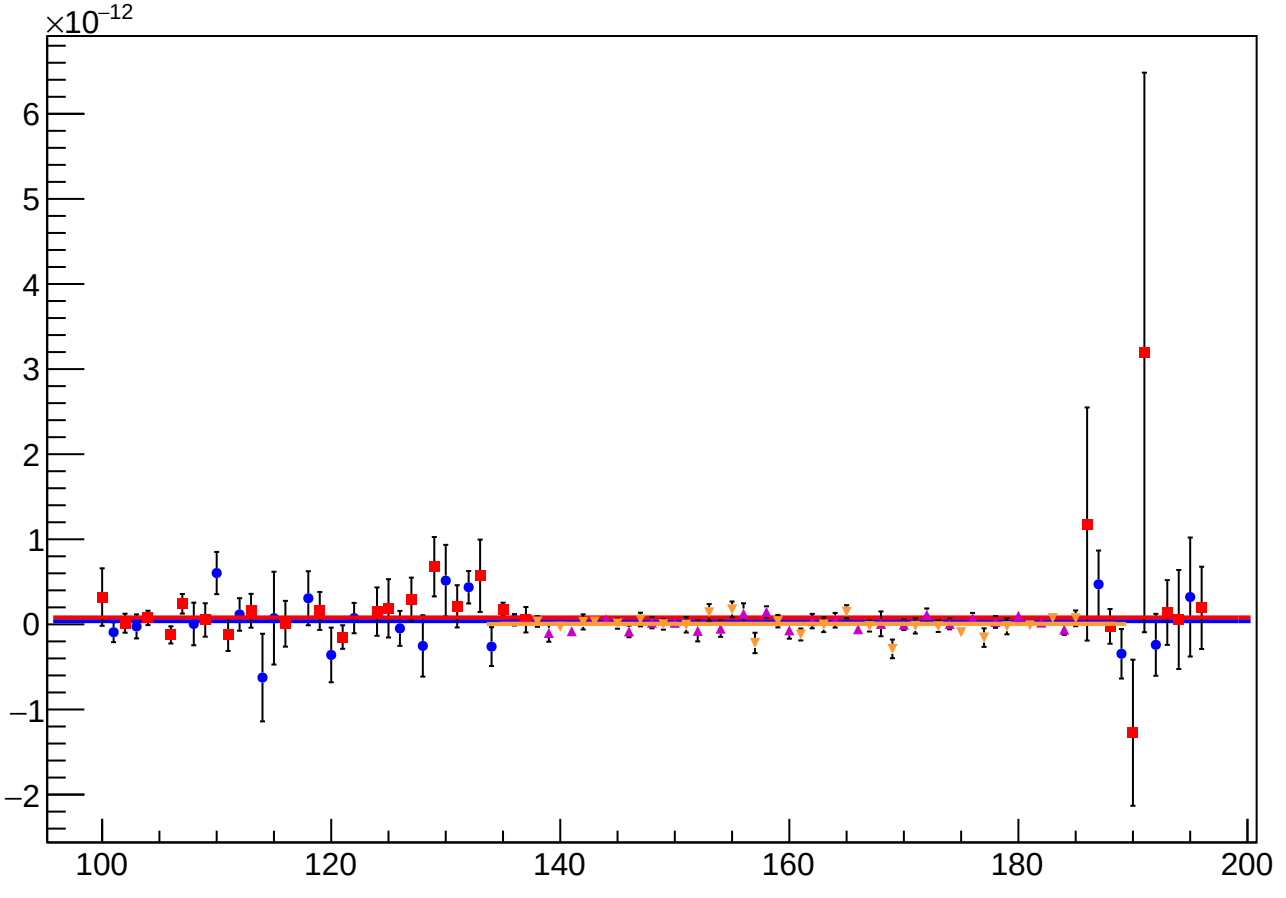
Right: 136.871+/-0.023 $\chi^2$/NDF: 5107849.7/45

In: 194.864+/-0.029 $\chi^2$/NDF:9439631.3/42

Out: 170.579+/-0.026 $\chi^2$/NDF:15613382.4/50

All: 181.230+/-0.019 $\chi^2$/NDF: 25444950.1/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:34.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 22.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.2/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 57.6/47

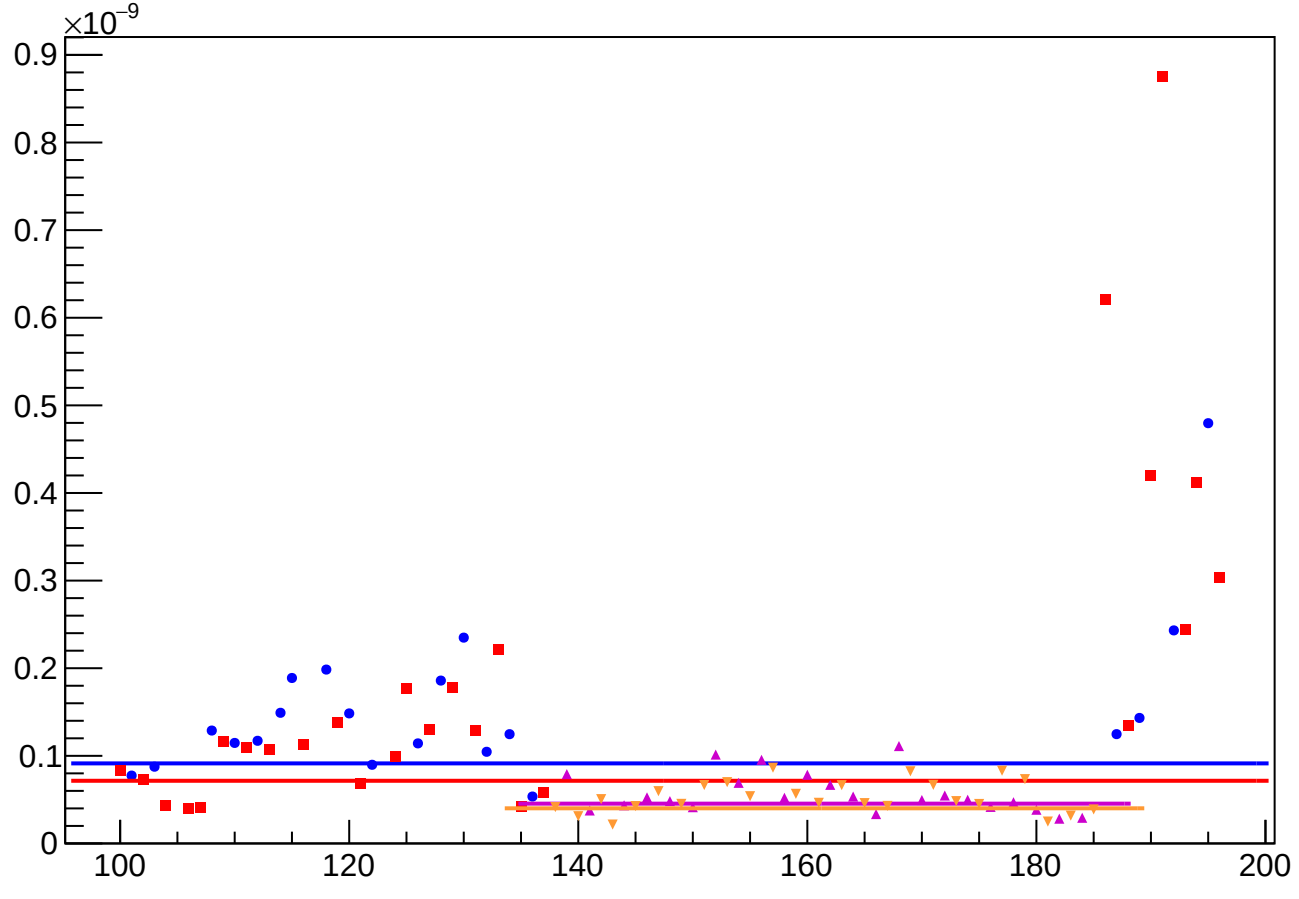
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:46.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:61.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 107.5/93

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2636191.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3609934.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4742507.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2780344.5/22

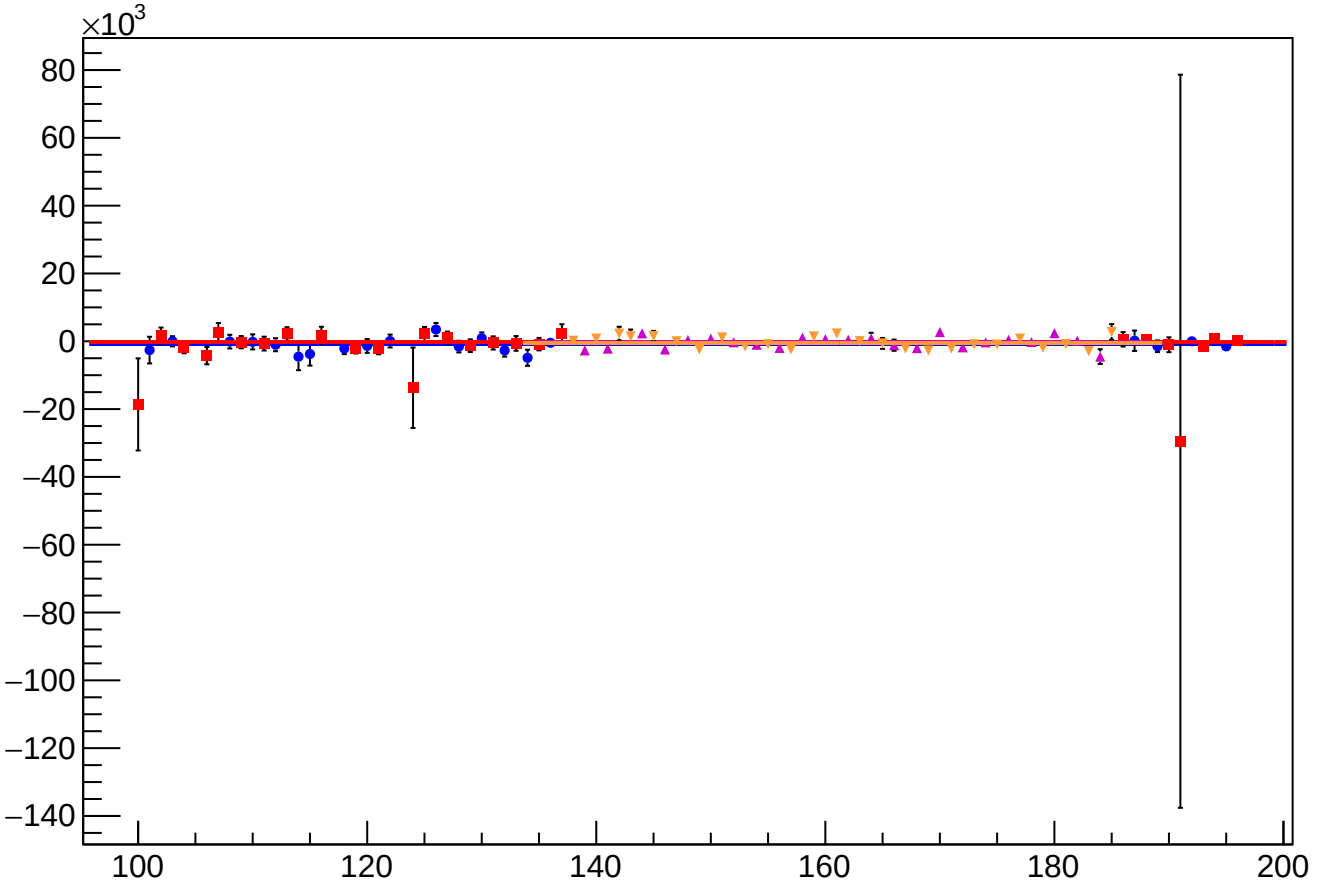
Left: 0.000+/-0.000 $\chi^2$/NDF: 6559252.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 7654386.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:7612218.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9908555.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 17762677.0/93




Right In: -803.131+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.484+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -213.109+/-385.476 $\chi^2$/NDF: 17.9/25

Left In: -242.686+/-291.166 $\chi^2$/NDF:32.0/22

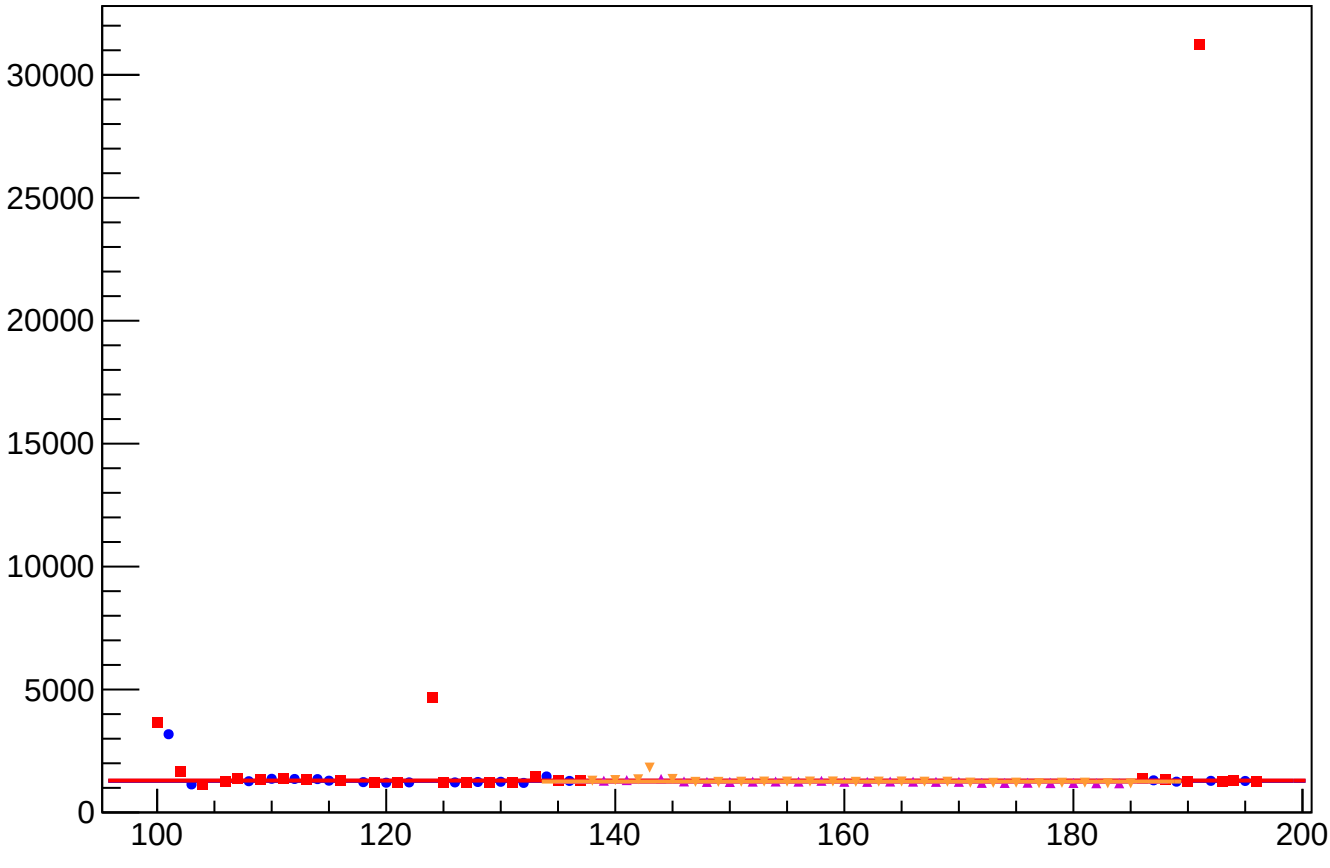
Left: -381.044+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -485.724+/-282.729 $\chi^2$/NDF: 33.3/45

In: -427.001+/-238.530 $\chi^2$/NDF:47.6/42

Out: -407.512+/-229.657 $\chi^2$/NDF:49.2/50

All: -416.887+/-165.440 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518962.8/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.1/24

Right Out: 1297.535+/-0.273 $\chi^2$/NDF: 489716.0/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

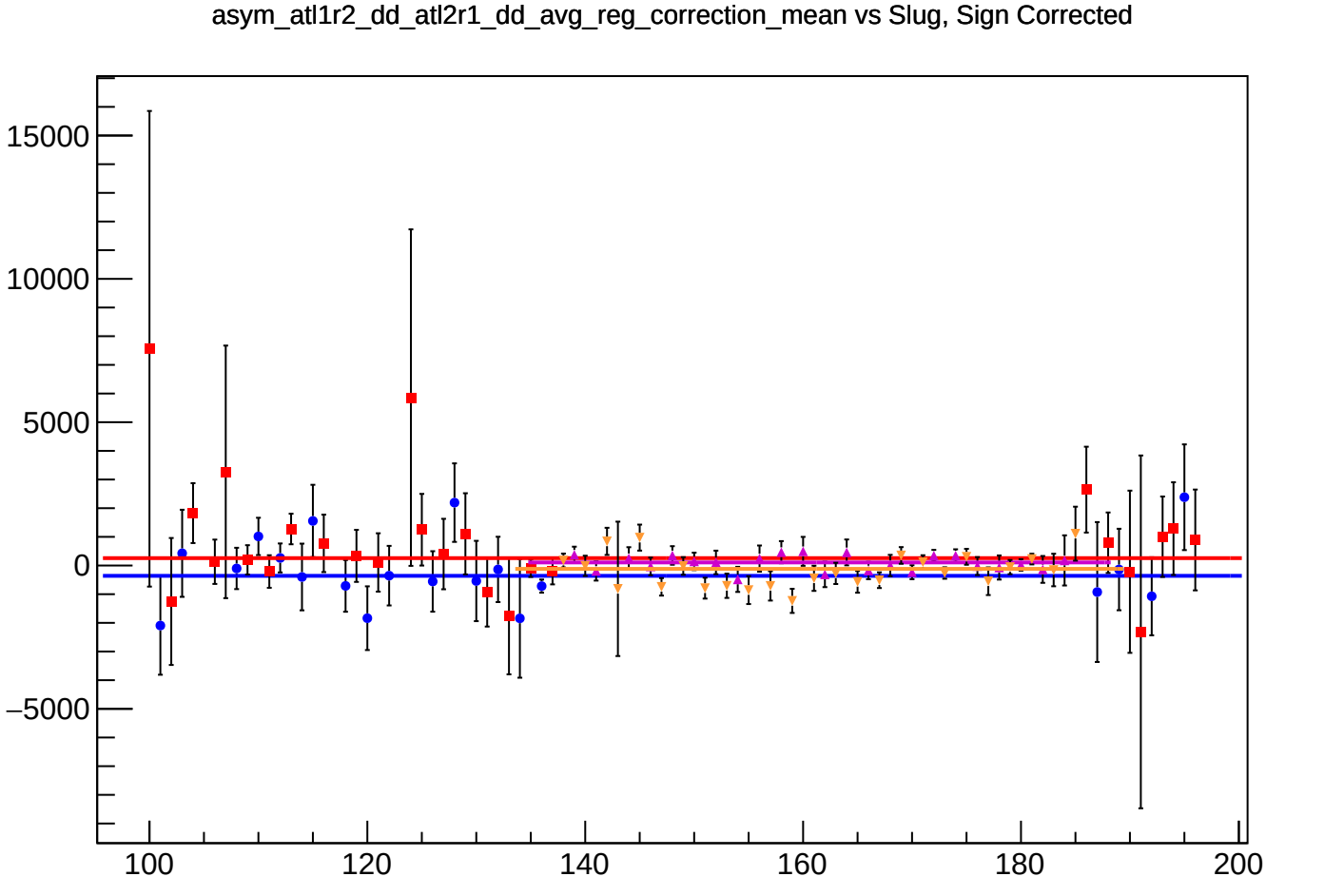
Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

Right: 1291.267+/-0.200 $\chi^2$/NDF: 1009823.1/45

In: 1258.725+/-0.169 $\chi^2$/NDF:569797.6/42

Out: 1270.429+/-0.162 $\chi^2$/NDF:708170.7/50

All: 1264.799+/-0.117 $\chi^2$/NDF: 1280467.1/93




Right In: -359.992+/-164.751 $\chi^2$/NDF: 20.7/19

Left Out: -117.028+/-65.059 $\chi^2$/NDF:48.4/24

Right Out: 257.908+/-163.331 $\chi^2$/NDF: 18.6/25

Left In: 107.341+/-67.001 $\chi^2$/NDF:13.7/22

Left: -8.142+/-46.675 $\chi^2$/NDF: 67.9/47

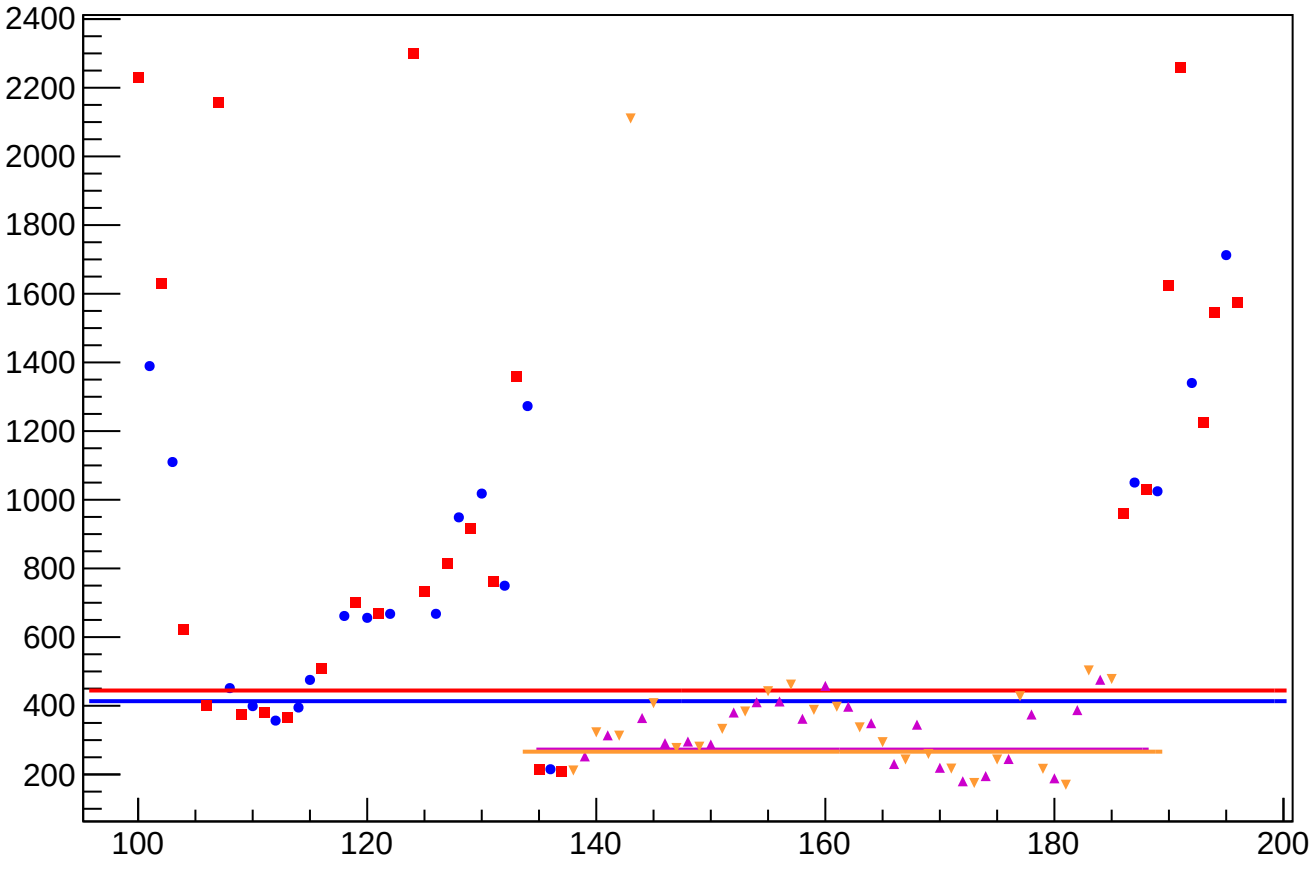
Right: -48.367+/-115.991 $\chi^2$/NDF: 46.5/45

In: 41.019+/-62.065 $\chi^2$/NDF:41.4/42

Out: -65.686+/-60.441 $\chi^2$/NDF:71.6/50

All: -13.748+/-43.301 $\chi^2$/NDF: 114.5/93

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.116 $\chi^2$/NDF: 6710494.9/19

Left Out: 266.321+/-0.046 $\chi^2$/NDF:4630130.4/24

Right Out: 444.463+/-0.115 $\chi^2$/NDF: 8063759.6/25

Left In: 272.368+/-0.047 $\chi^2$/NDF:2887823.5/22

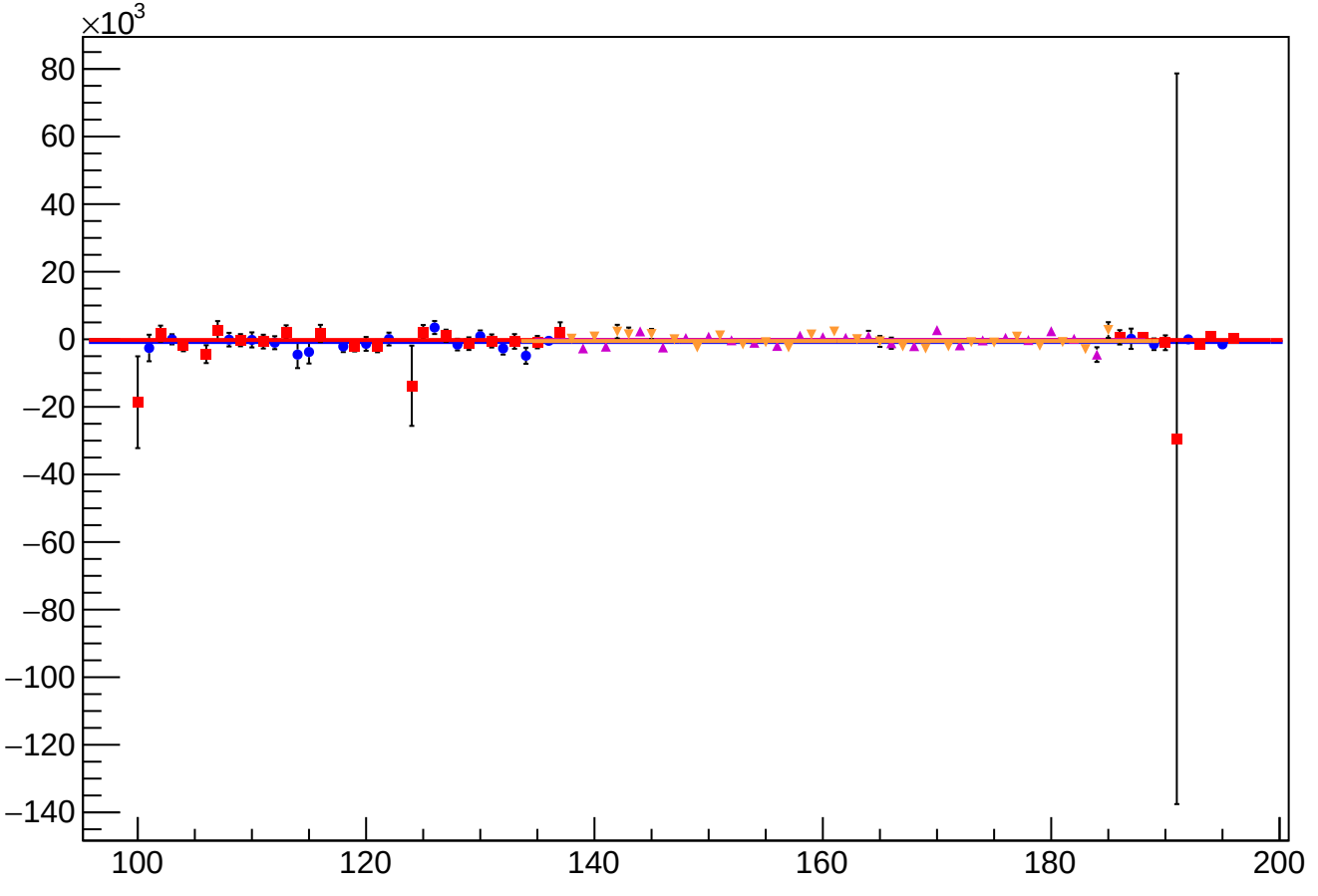
Left: 269.255+/-0.033 $\chi^2$/NDF: 7526339.3/47

Right: 429.086+/-0.082 $\chi^2$/NDF: 14810019.1/45

In: 292.388+/-0.044 $\chi^2$/NDF:10856623.6/42

Out: 290.715+/-0.043 $\chi^2$/NDF:14747281.0/50

All: 291.529+/-0.031 $\chi^2$/NDF: 25604650.7/93




Right In: -802.882+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.430+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -211.269+/-385.737 $\chi^2$/NDF: 18.0/25

Left In: -242.663+/-291.166 $\chi^2$/NDF:32.0/22

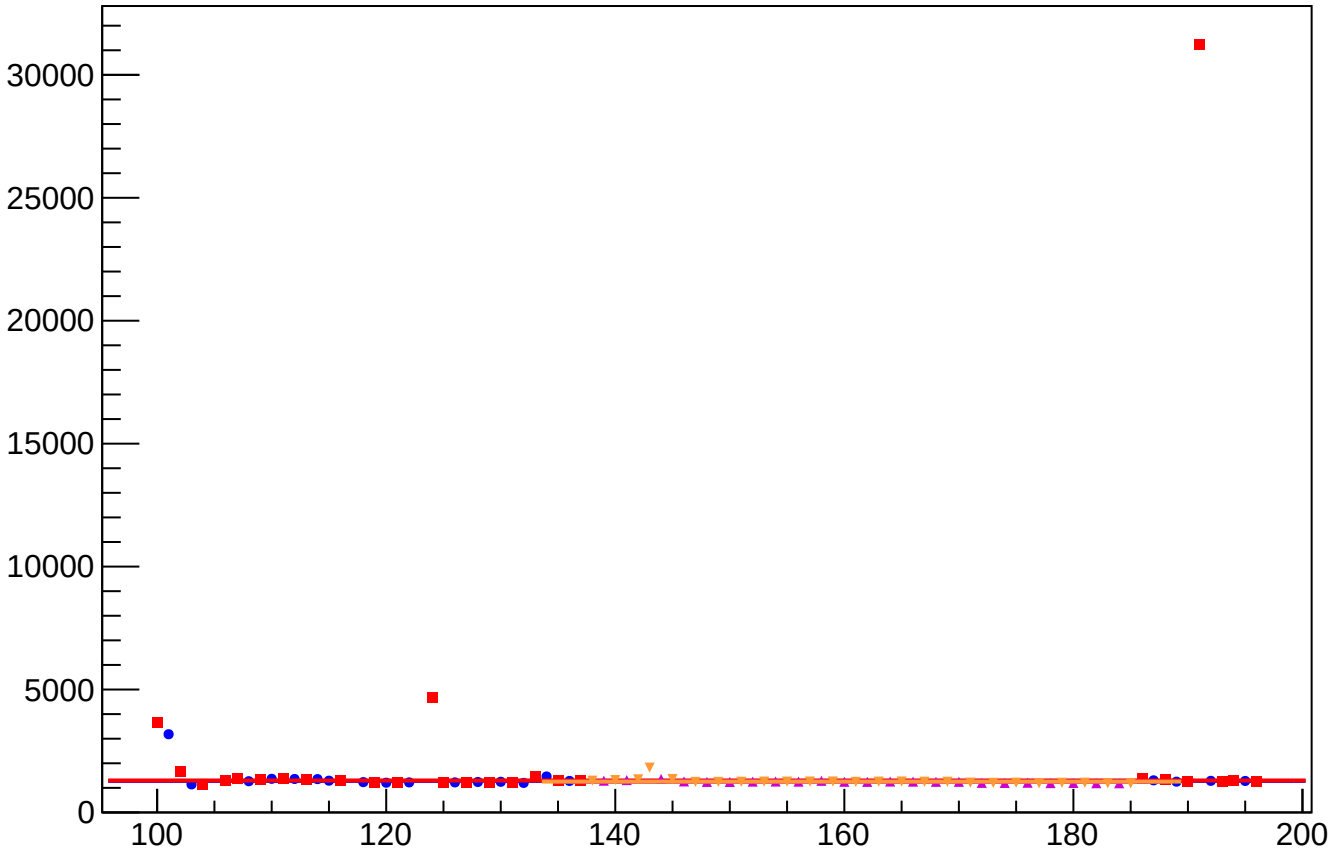
Left: -381.005+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -484.819+/-282.832 $\chi^2$/NDF: 33.3/45

In: -426.903+/-238.530 $\chi^2$/NDF:47.5/42

Out: -406.917+/-229.712 $\chi^2$/NDF:49.3/50

All: -416.534+/-165.461 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518964.3/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.0/24

Right Out: 1298.450+/-0.273 $\chi^2$/NDF: 489355.3/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

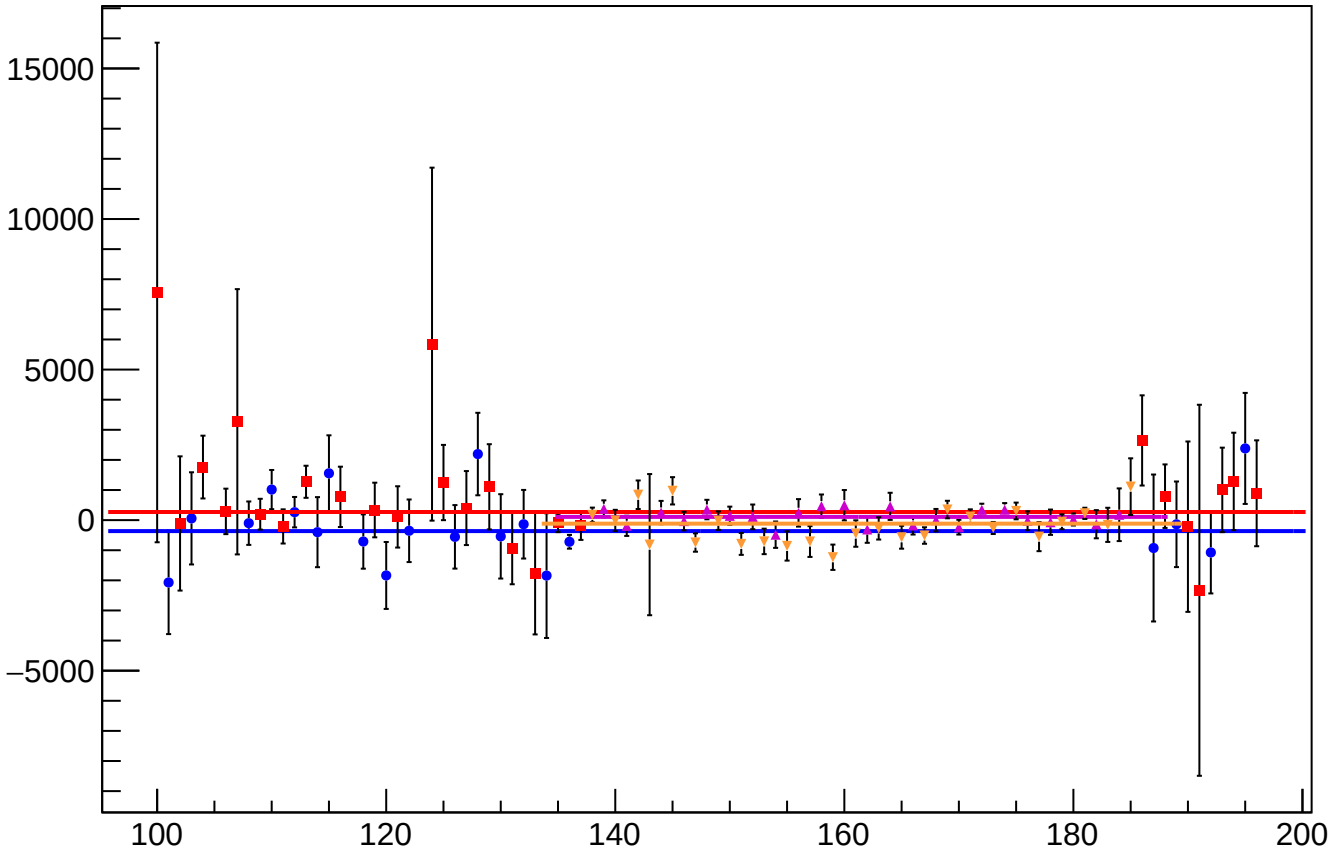
Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

Right: 1291.755+/-0.200 $\chi^2$/NDF: 1009622.6/45

In: 1258.725+/-0.169 $\chi^2$/NDF:569798.9/42

Out: 1270.741+/-0.162 $\chi^2$/NDF:708470.9/50

All: 1264.959+/-0.117 $\chi^2$/NDF: 1280902.7/93




Right In: -364.257+/-164.770 $\chi^2$/NDF: 20.5/19

Left Out: -117.002+/-65.060 $\chi^2$/NDF:48.4/24

Right Out: 270.006+/-163.154 $\chi^2$/NDF: 18.0/25

Left In: 107.459+/-67.003 $\chi^2$/NDF:13.7/22

Left: -8.072+/-46.676 $\chi^2$/NDF: 68.0/47

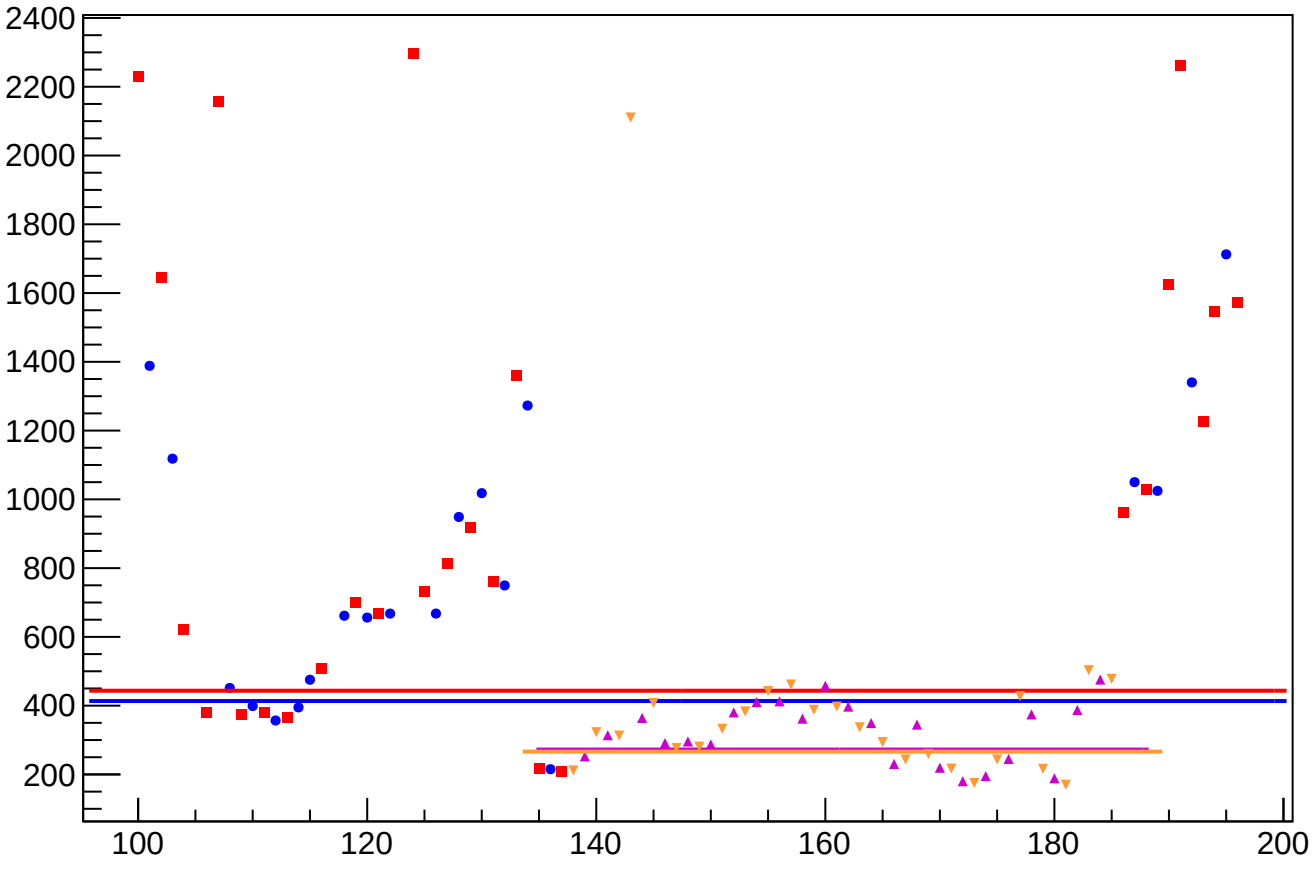
Right: -44.000+/-115.934 $\chi^2$/NDF: 46.0/45

In: 40.525+/-62.067 $\chi^2$/NDF:41.3/42

Out: -63.905+/-60.433 $\chi^2$/NDF:71.3/50

All: -13.083+/-43.299 $\chi^2$/NDF: 114.0/93

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.117 $\chi^2$/NDF: 6713661.0/19

Left Out: 266.326+/-0.046 $\chi^2$/NDF:4630167.4/24

Right Out: 443.459+/-0.115 $\chi^2$/NDF: 8078000.3/25

Left In: 272.378+/-0.047 $\chi^2$/NDF:2887597.1/22

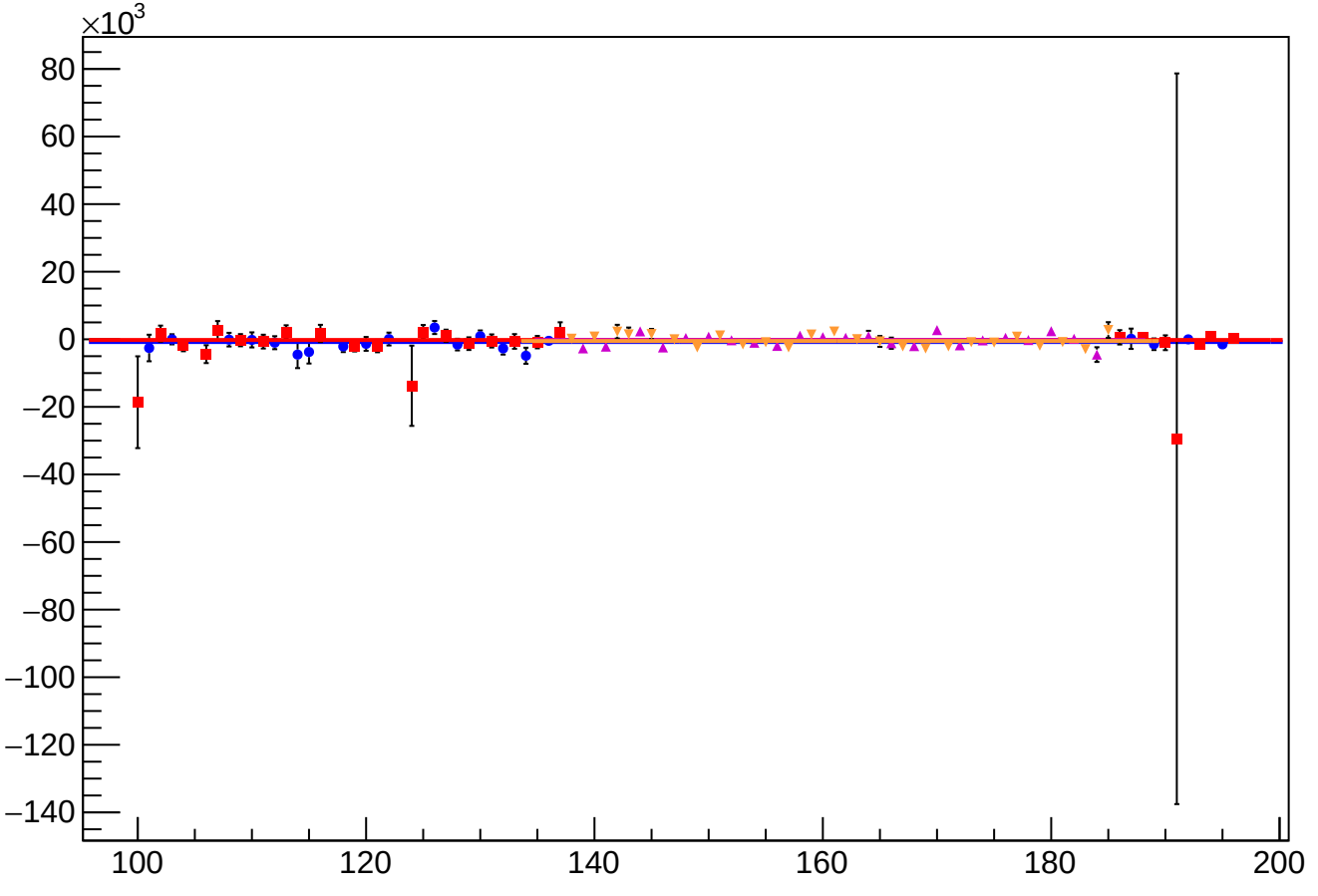
Left: 269.263+/-0.033 $\chi^2$/NDF: 7526161.0/47

Right: 428.598+/-0.082 $\chi^2$/NDF: 14825180.8/45

In: 292.394+/-0.044 $\chi^2$/NDF:10859134.3/42

Out: 290.629+/-0.043 $\chi^2$/NDF:14742134.8/50

All: 291.488+/-0.031 $\chi^2$/NDF: 25602099.4/93




Right In: -802.882+/-415.939 $\chi^2$/NDF: 14.3/19

Left Out: -514.430+/-285.945 $\chi^2$/NDF:30.9/24

Right Out: -211.269+/-385.737 $\chi^2$/NDF: 18.0/25

Left In: -242.663+/-291.166 $\chi^2$/NDF:32.0/22

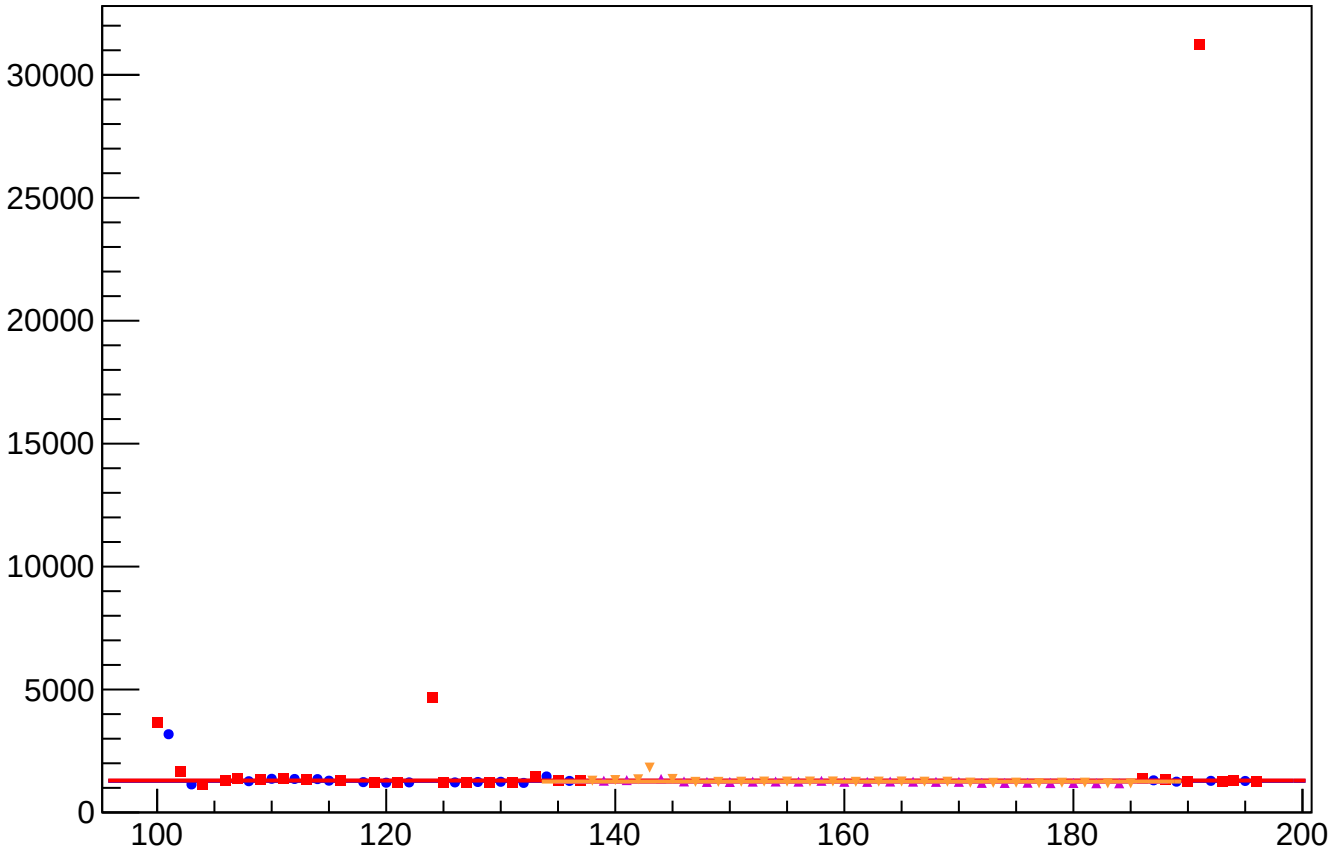
Left: -381.005+/-204.014 $\chi^2$/NDF: 63.4/47

Right: -484.819+/-282.832 $\chi^2$/NDF: 33.3/45

In: -426.903+/-238.530 $\chi^2$/NDF:47.5/42

Out: -406.917+/-229.712 $\chi^2$/NDF:49.3/50

All: -416.534+/-165.461 $\chi^2$/NDF: 96.8/93




Right In: 1283.970+/-0.294 $\chi^2$/NDF: 518964.3/19

Left Out: 1255.514+/-0.202 $\chi^2$/NDF:203124.0/24

Right Out: 1298.450+/-0.273 $\chi^2$/NDF: 489355.3/25

Left In: 1246.355+/-0.206 $\chi^2$/NDF:39857.0/22

Left: 1251.017+/-0.144 $\chi^2$/NDF: 243988.6/47

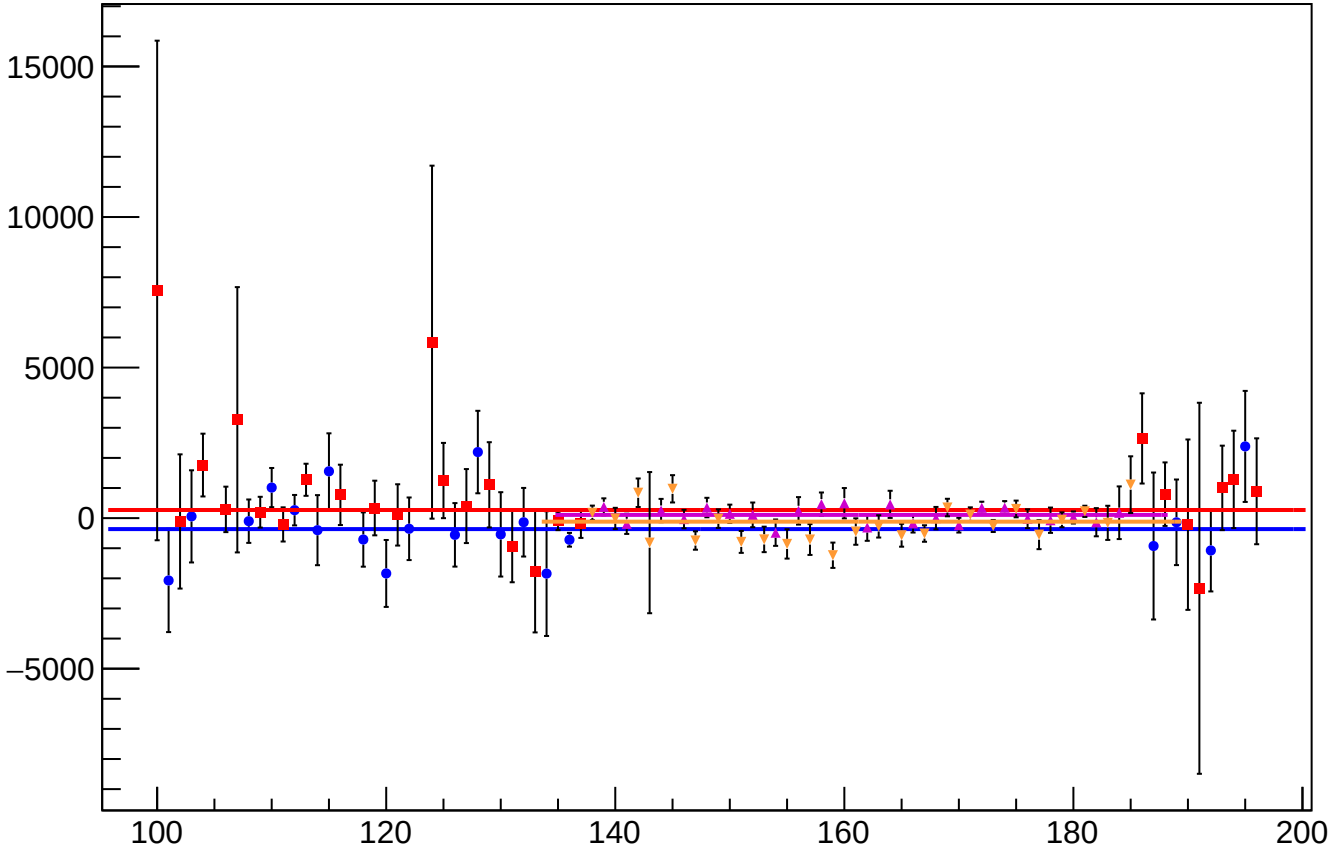
Right: 1291.755+/-0.200 $\chi^2$/NDF: 1009622.6/45

In: 1258.725+/-0.169 $\chi^2$/NDF:569798.9/42

Out: 1270.741+/-0.162 $\chi^2$/NDF:708470.9/50

All: 1264.959+/-0.117 $\chi^2$/NDF: 1280902.7/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -364.257+/-164.770 $\chi^2$/NDF: 20.5/19

Left Out: -117.002+/-65.060 $\chi^2$/NDF:48.4/24

Right Out: 270.006+/-163.154 $\chi^2$/NDF: 18.0/25

Left In: 107.459+/-67.003 $\chi^2$/NDF:13.7/22

Left: -8.072+/-46.676 $\chi^2$/NDF: 68.0/47

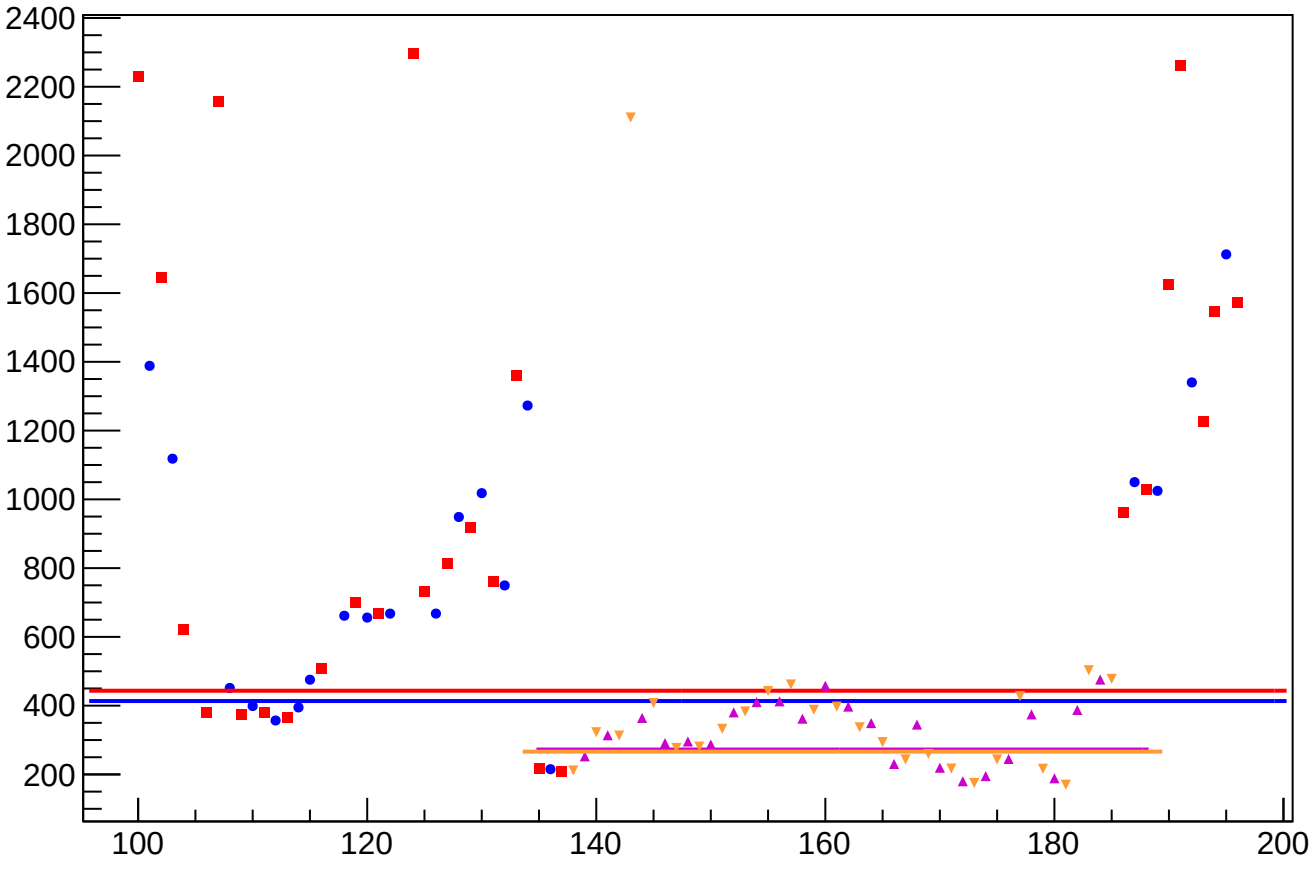
Right: -44.000+/-115.934 $\chi^2$/NDF: 46.0/45

In: 40.525+/-62.067 $\chi^2$/NDF:41.3/42

Out: -63.905+/-60.433 $\chi^2$/NDF:71.3/50

All: -13.083+/-43.299 $\chi^2$/NDF: 114.0/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 413.440+/-0.117 $\chi^2$/NDF: 6713661.0/19

Left Out: 266.326+/-0.046 $\chi^2$/NDF:4630167.4/24

Right Out: 443.459+/-0.115 $\chi^2$/NDF: 8078000.3/25

Left In: 272.378+/-0.047 $\chi^2$/NDF:2887597.1/22

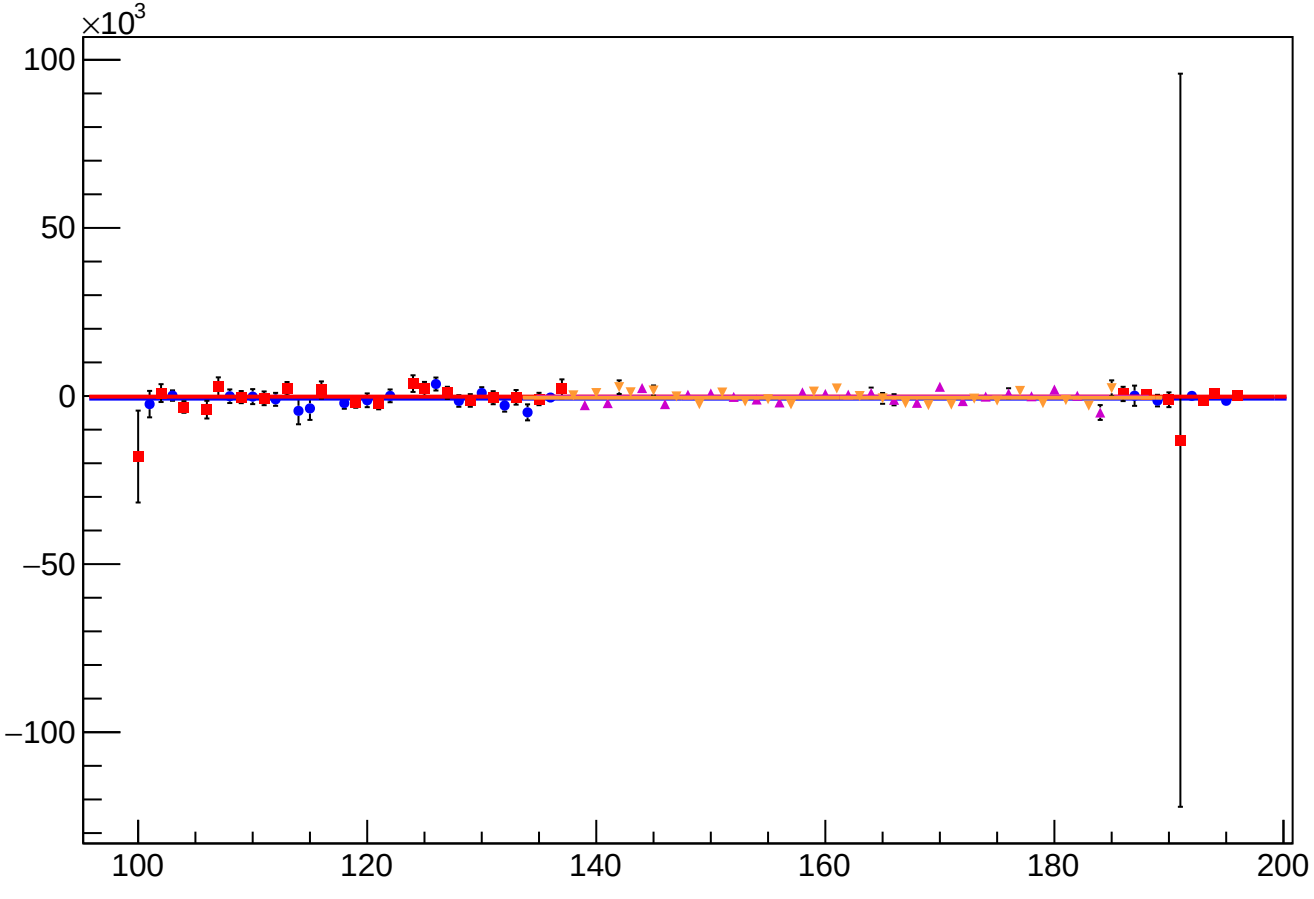
Left: 269.263+/-0.033 $\chi^2$/NDF: 7526161.0/47

Right: 428.598+/-0.082 $\chi^2$/NDF: 14825180.8/45

In: 292.394+/-0.044 $\chi^2$/NDF:10859134.3/42

Out: 290.629+/-0.043 $\chi^2$/NDF:14742134.8/50

All: 291.488+/-0.031 $\chi^2$/NDF: 25602099.4/93




Right In: -767.806+/-417.551 $\chi^2$/NDF: 14.4/19

Left Out: -493.436+/-282.734 $\chi^2$/NDF:34.2/24

Right Out: -182.310+/-384.109 $\chi^2$/NDF: 19.9/25

Left In: -242.004+/-294.339 $\chi^2$/NDF:30.7/22

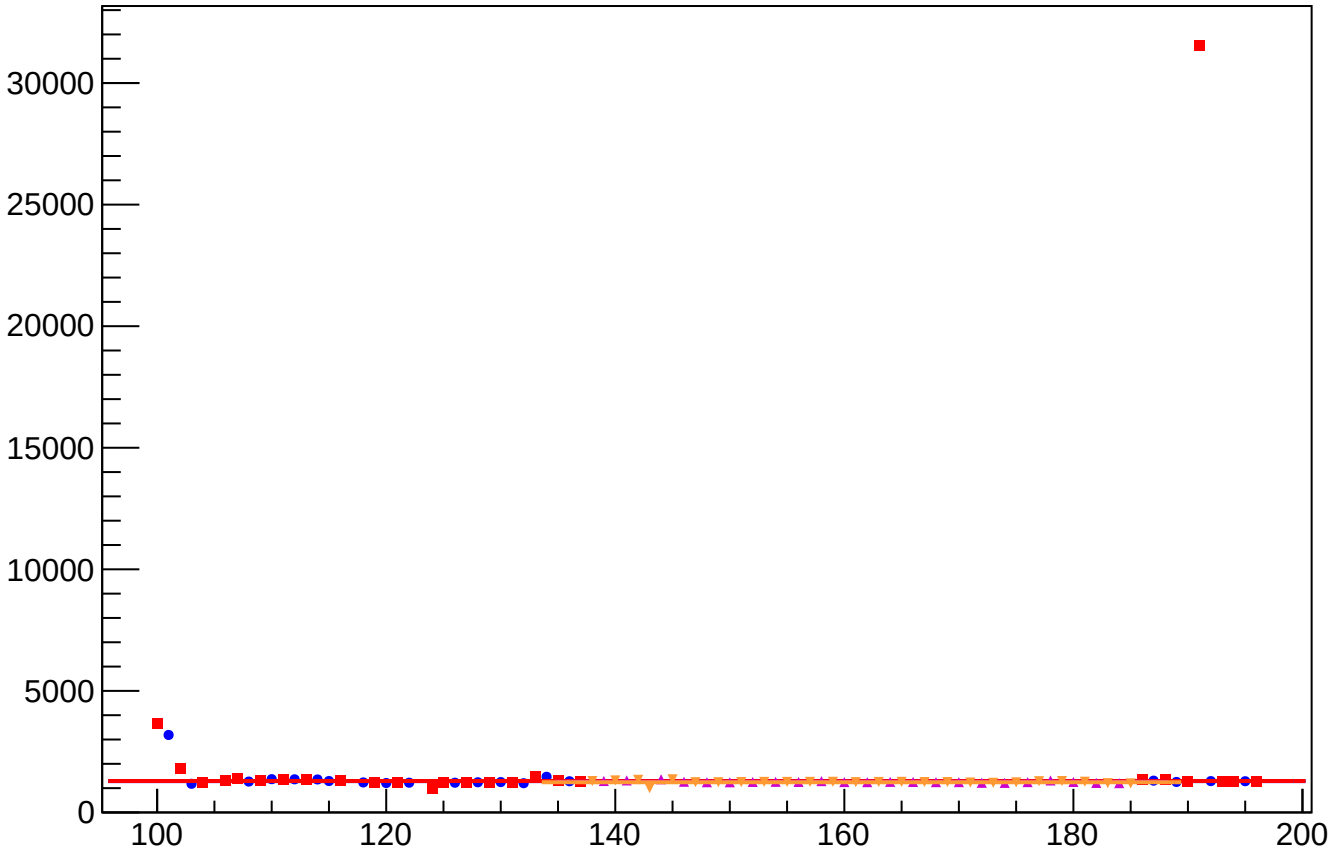
Left: -372.774+/-203.903 $\chi^2$/NDF: 65.3/47

Right: -450.676+/-282.690 $\chi^2$/NDF: 35.3/45

In: -416.548+/-240.575 $\chi^2$/NDF:46.2/42

Out: -384.102+/-227.700 $\chi^2$/NDF:54.5/50

All: -399.434+/-165.372 $\chi^2$/NDF: 100.7/93




Right In: 1289.136+/-0.295 $\chi^2$/NDF: 510390.0/19

Left Out: 1242.539+/-0.200 $\chi^2$/NDF:130023.1/24

Right Out: 1293.260+/-0.272 $\chi^2$/NDF: 372145.0/25

Left In: 1260.094+/-0.208 $\chi^2$/NDF:27932.1/22

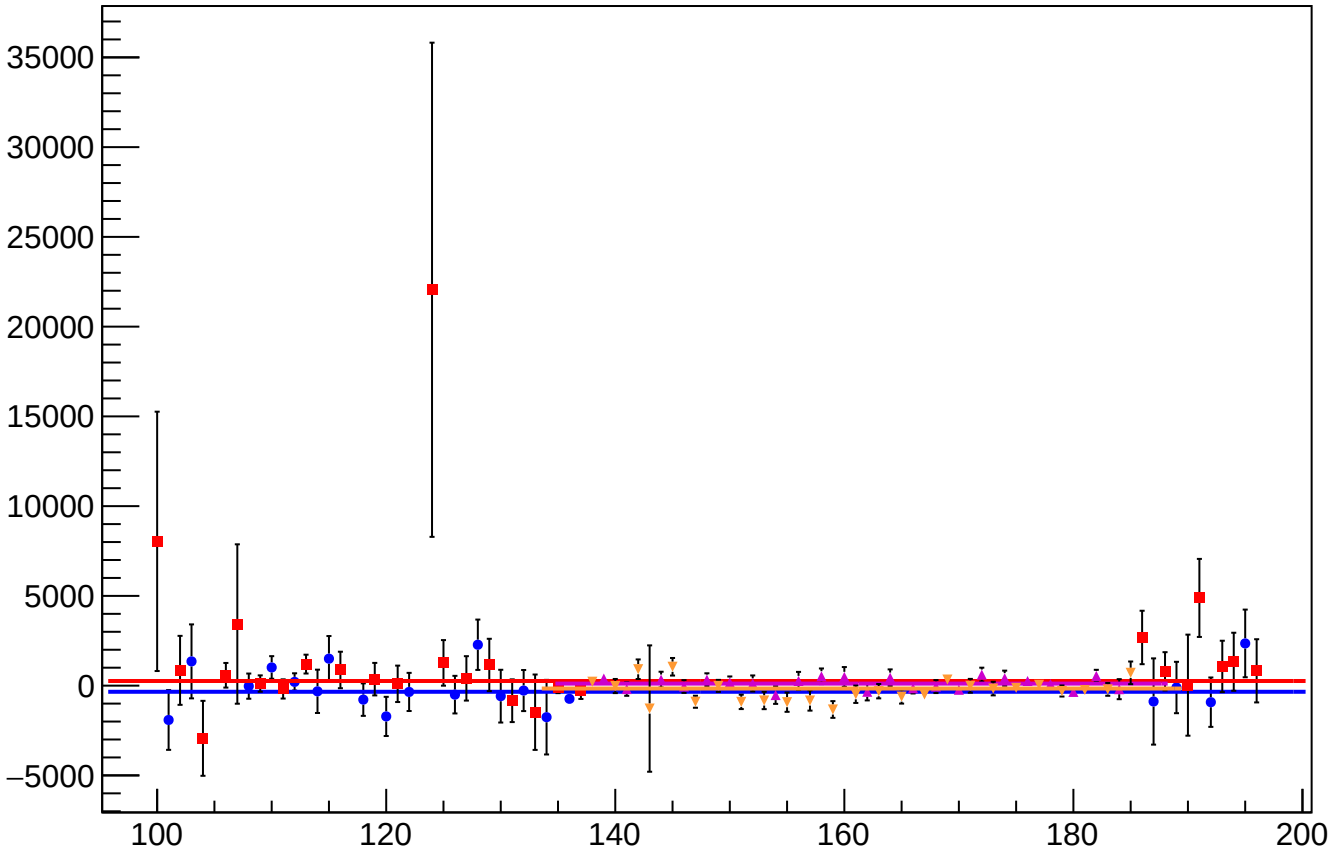
Left: 1250.964+/-0.144 $\chi^2$/NDF: 161655.2/47

Right: 1291.370+/-0.200 $\chi^2$/NDF: 882640.7/45

In: 1269.734+/-0.170 $\chi^2$/NDF:544785.6/42

Out: 1260.363+/-0.161 $\chi^2$/NDF:524786.8/50

All: 1264.791+/-0.117 $\chi^2$/NDF: 1071173.1/93




Right In: -341.534+/-166.469 $\chi^2$/NDF: 20.7/19

Left Out: -160.930+/-64.133 $\chi^2$/NDF:43.8/24

Right Out: 258.972+/-163.075 $\chi^2$/NDF: 24.5/25

Left In: 113.722+/-68.841 $\chi^2$/NDF:18.2/22

Left: -33.316+/-46.925 $\chi^2$/NDF: 70.5/47

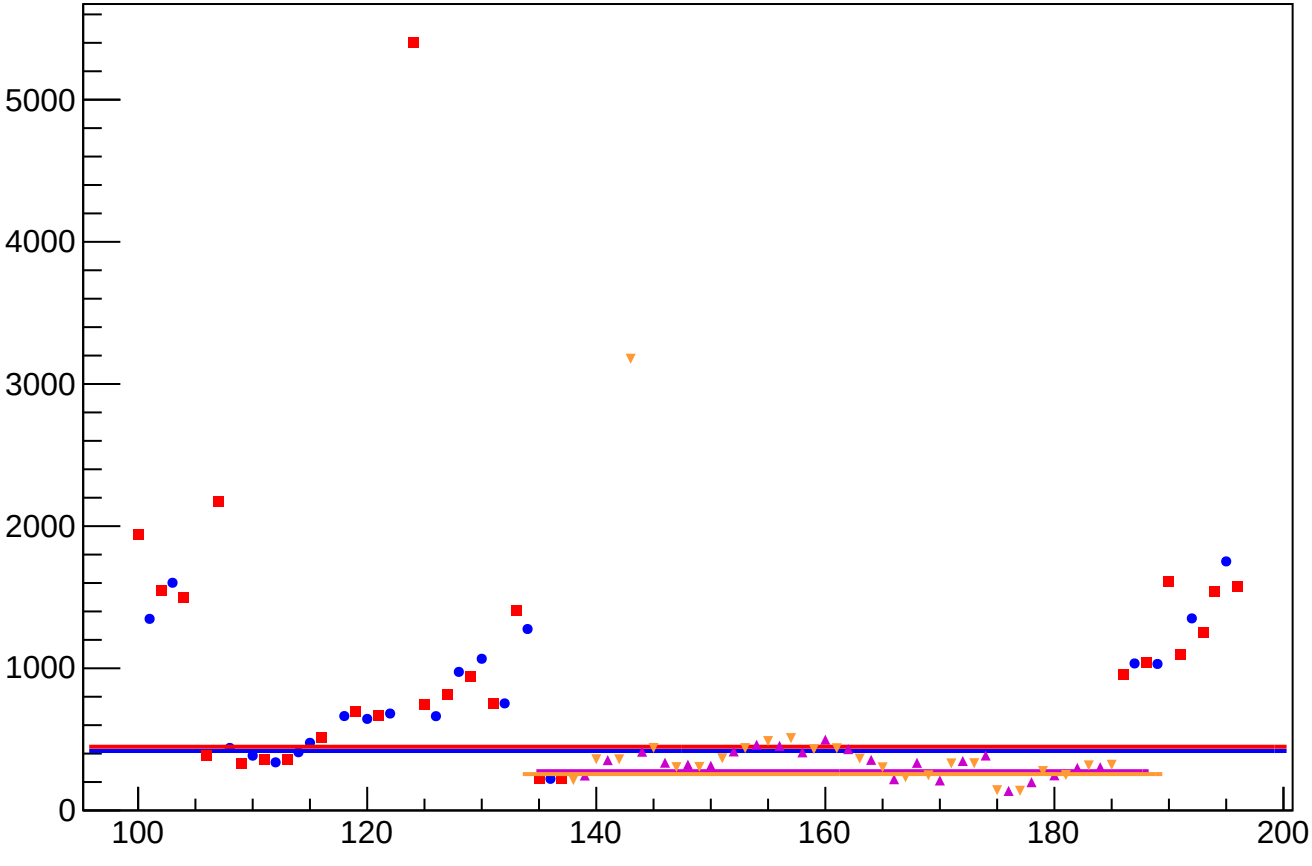
Right: -35.097+/-116.493 $\chi^2$/NDF: 51.9/45

In: 47.238+/-63.616 $\chi^2$/NDF:45.3/42

Out: -104.685+/-59.683 $\chi^2$/NDF:74.0/50

All: -33.564+/-43.526 $\chi^2$/NDF: 122.4/93

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 418.165+/-0.118 $\chi^2$/NDF: 6831387.5/19

Left Out: 255.768+/-0.045 $\chi^2$/NDF:6373929.4/24

Right Out: 448.288+/-0.115 $\chi^2$/NDF: 8581502.2/25

Left In: 276.298+/-0.049 $\chi^2$/NDF:4027410.5/22

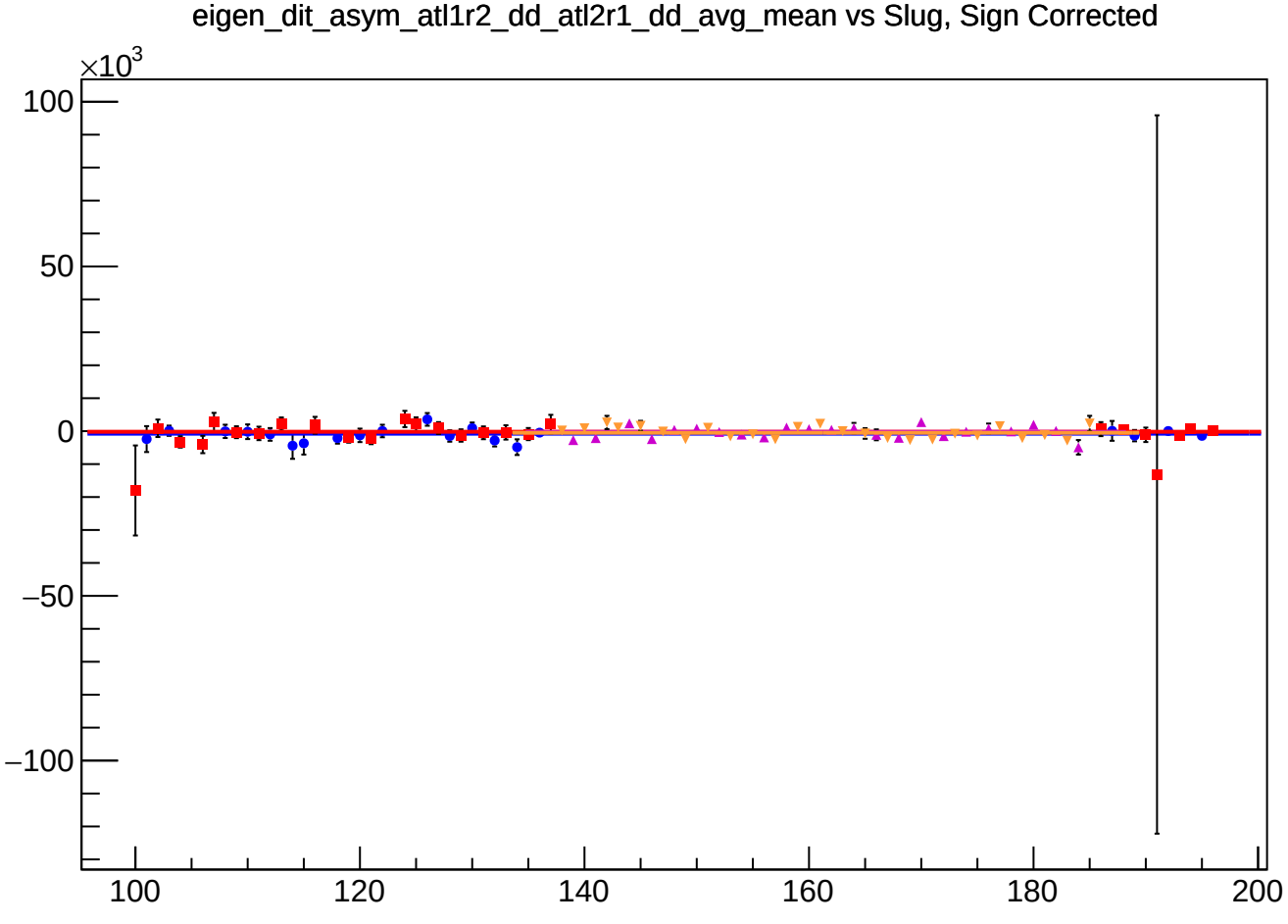
Left: 265.307+/-0.033 $\chi^2$/NDF: 10496569.7/47

Right: 433.537+/-0.082 $\chi^2$/NDF: 15446307.7/45

In: 297.016+/-0.045 $\chi^2$/NDF:12099204.9/42

Out: 281.555+/-0.042 $\chi^2$/NDF:17369513.9/50

All: 288.793+/-0.031 $\chi^2$/NDF: 29531547.4/93




Right In: -767.808+/-417.551 $\chi^2$/NDF: 14.4/19

Left Out: -493.435+/-282.734 $\chi^2$/NDF:34.2/24

Right Out: -182.309+/-384.109 $\chi^2$/NDF: 19.9/25

Left In: -242.004+/-294.339 $\chi^2$/NDF:30.7/22

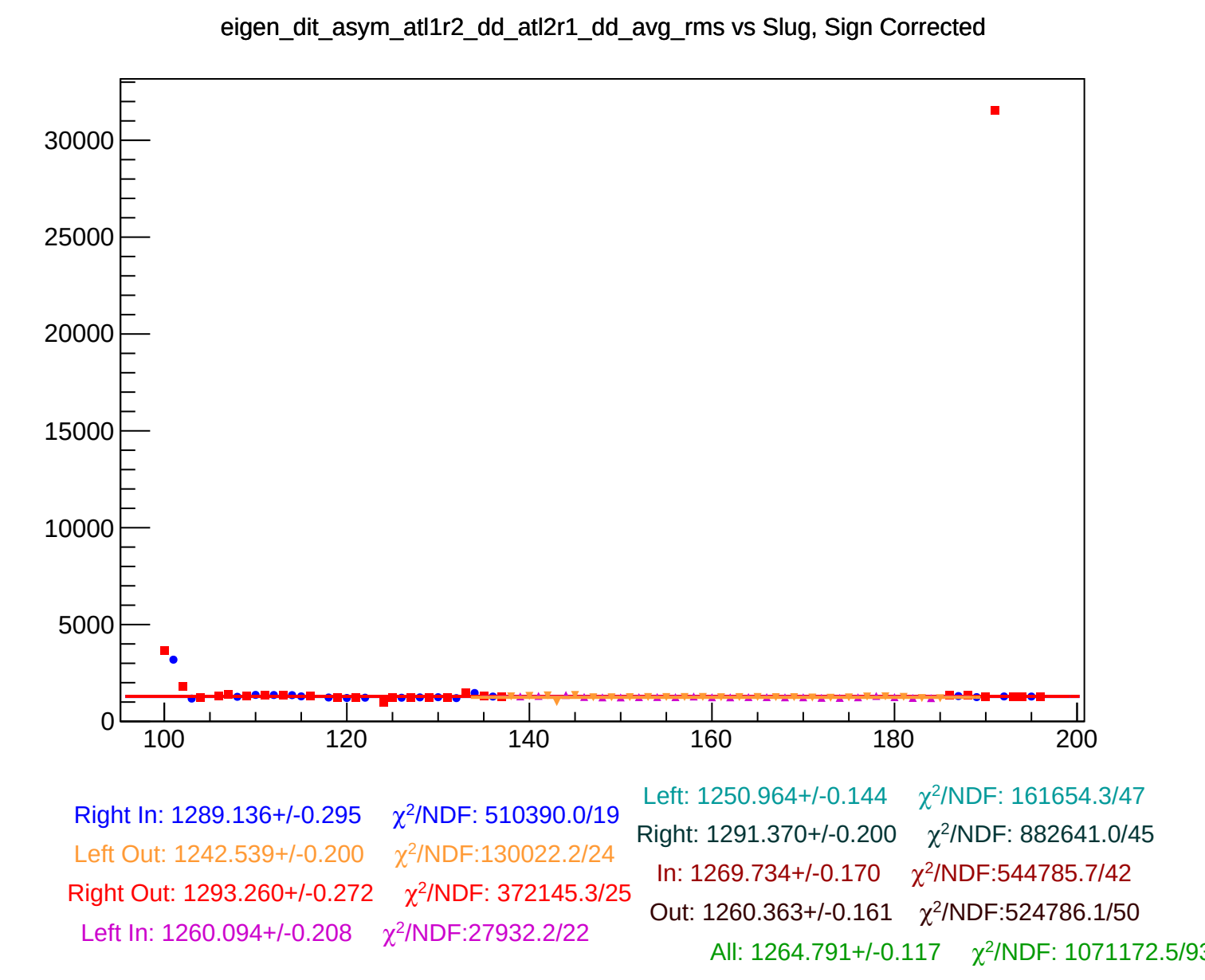
Left: -372.774+/-203.903 $\chi^2$/NDF: 65.3/47

Right: -450.677+/-282.690 $\chi^2$/NDF: 35.3/45

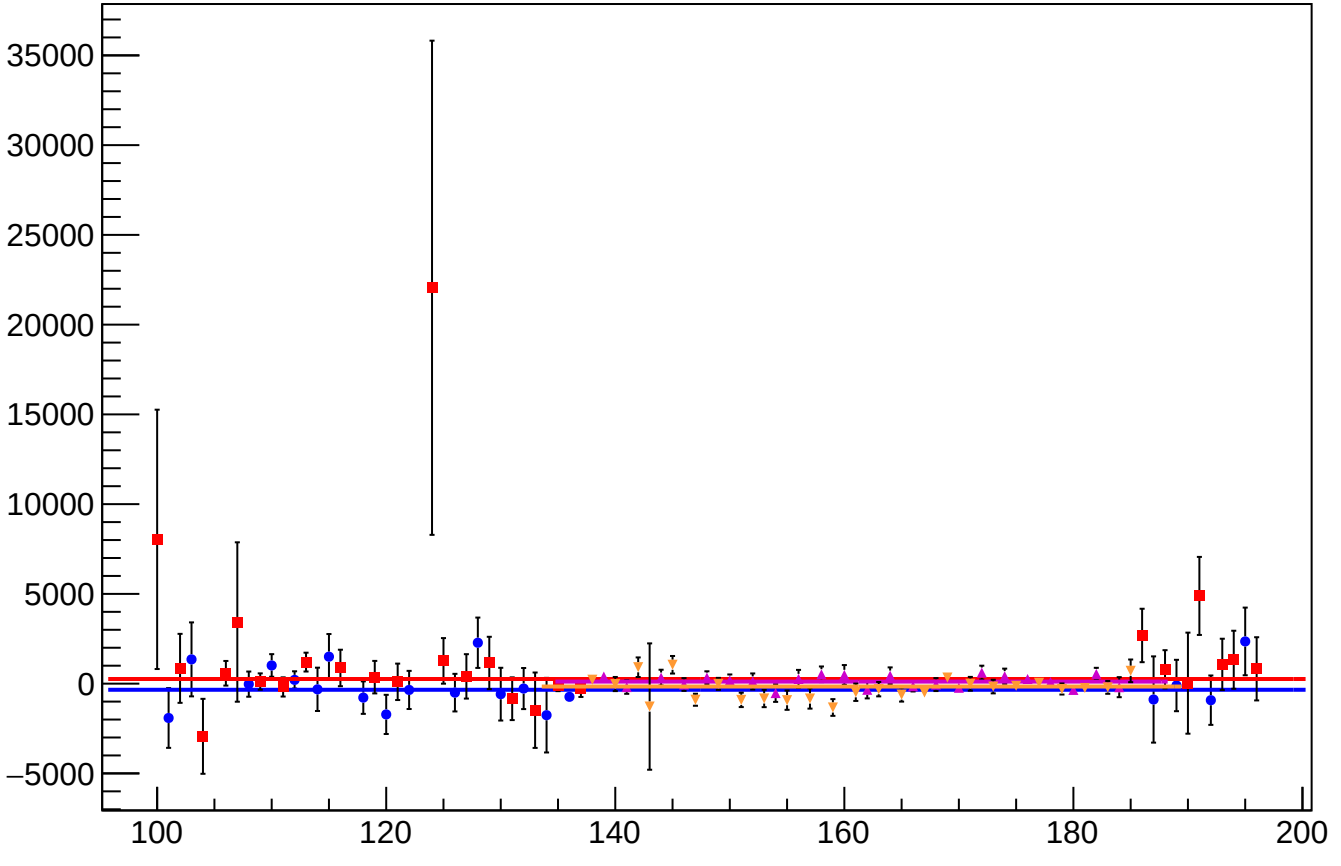
In: -416.549+/-240.575 $\chi^2$/NDF:46.2/42

Out: -384.102+/-227.700 $\chi^2$/NDF:54.5/50

All: -399.434+/-165.372 $\chi^2$/NDF: 100.7/93


eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
100
120
140
160
180
200
Right In: 1289.136+/-0.295 χ²/NDF: 510390.0/19
Left Out: 1242.539+/-0.200 χ²/NDF:130022.2/24
Right Out: 1293.260+/-0.272 χ²/NDF: 372145.3/25
Left In: 1260.094+/-0.208 χ²/NDF:27932.2/22
Left: 1250.964+/-0.144 χ²/NDF: 161654.3/47
Right: 1291.370+/-0.200 χ²/NDF: 882641.0/45
In: 1269.734+/-0.170 χ²/NDF:544785.7/42
Out: 1260.363+/-0.161 χ²/NDF:524786.1/50
All: 1264.791+/-0.117 χ²/NDF: 1071172.5/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -341.534+/-166.472 $\chi^2$/NDF: 20.7/19

Left Out: -160.933+/-64.133 $\chi^2$/NDF:43.8/24

Right Out: 258.980+/-163.077 $\chi^2$/NDF: 24.5/25

Left In: 113.720+/-68.841 $\chi^2$/NDF:18.2/22

Left: -33.318+/-46.925 $\chi^2$/NDF: 70.5/47

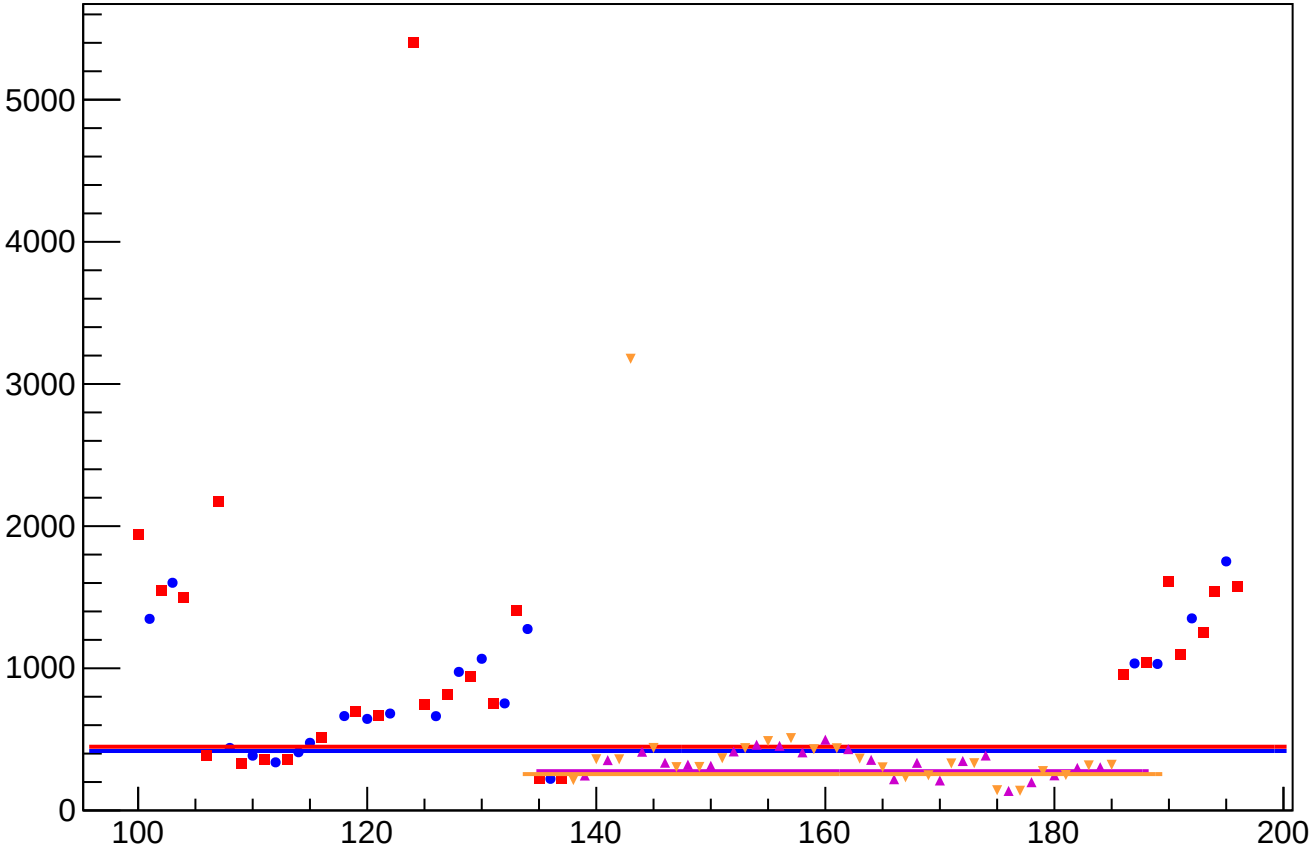
Right: -35.091+/-116.494 $\chi^2$/NDF: 51.9/45

In: 47.238+/-63.616 $\chi^2$/NDF:45.3/42

Out: -104.688+/-59.683 $\chi^2$/NDF:74.0/50

All: -33.566+/-43.526 $\chi^2$/NDF: 122.4/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 418.176+/-0.118 $\chi^2$/NDF: 6831147.2/19

Left Out: 255.770+/-0.045 $\chi^2$/NDF:6373829.7/24

Right Out: 448.297+/-0.115 $\chi^2$/NDF: 8581282.1/25

Left In: 276.299+/-0.049 $\chi^2$/NDF:4027371.0/22

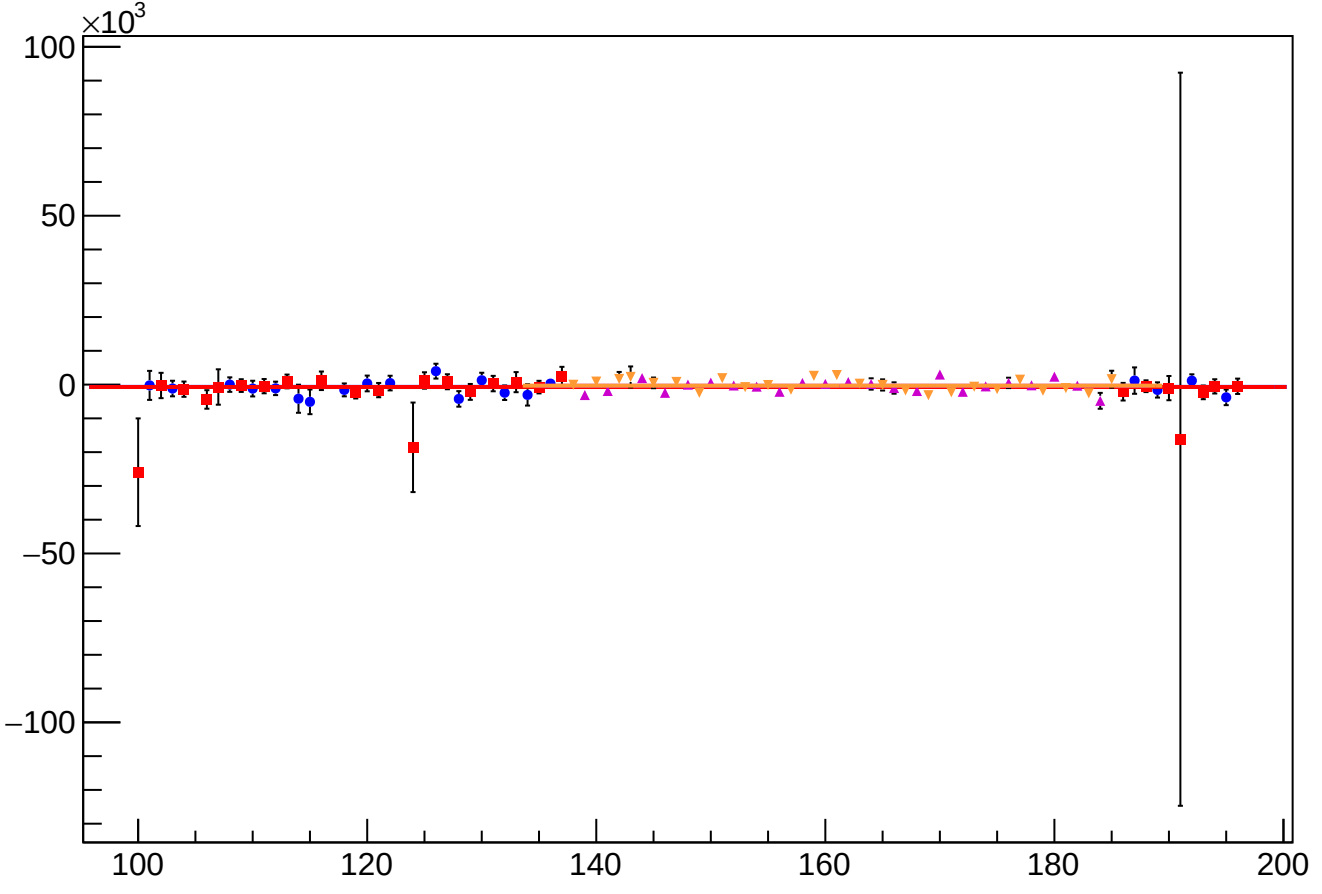
Left: 265.308+/-0.033 $\chi^2$/NDF: 10496422.7/47

Right: 433.547+/-0.082 $\chi^2$/NDF: 15445841.9/45

In: 297.018+/-0.045 $\chi^2$/NDF:12099071.2/42

Out: 281.557+/-0.042 $\chi^2$/NDF:17369329.5/50

All: 288.795+/-0.031 $\chi^2$/NDF: 29531225.1/93




Right In: -678.813+/-508.359 $\chi^2$/NDF: 15.6/19

Left Out: -319.744+/-298.271 $\chi^2$/NDF:31.6/24

Right Out: -713.995+/-480.622 $\chi^2$/NDF: 12.4/25

Left In: -356.387+/-301.902 $\chi^2$/NDF:29.7/22

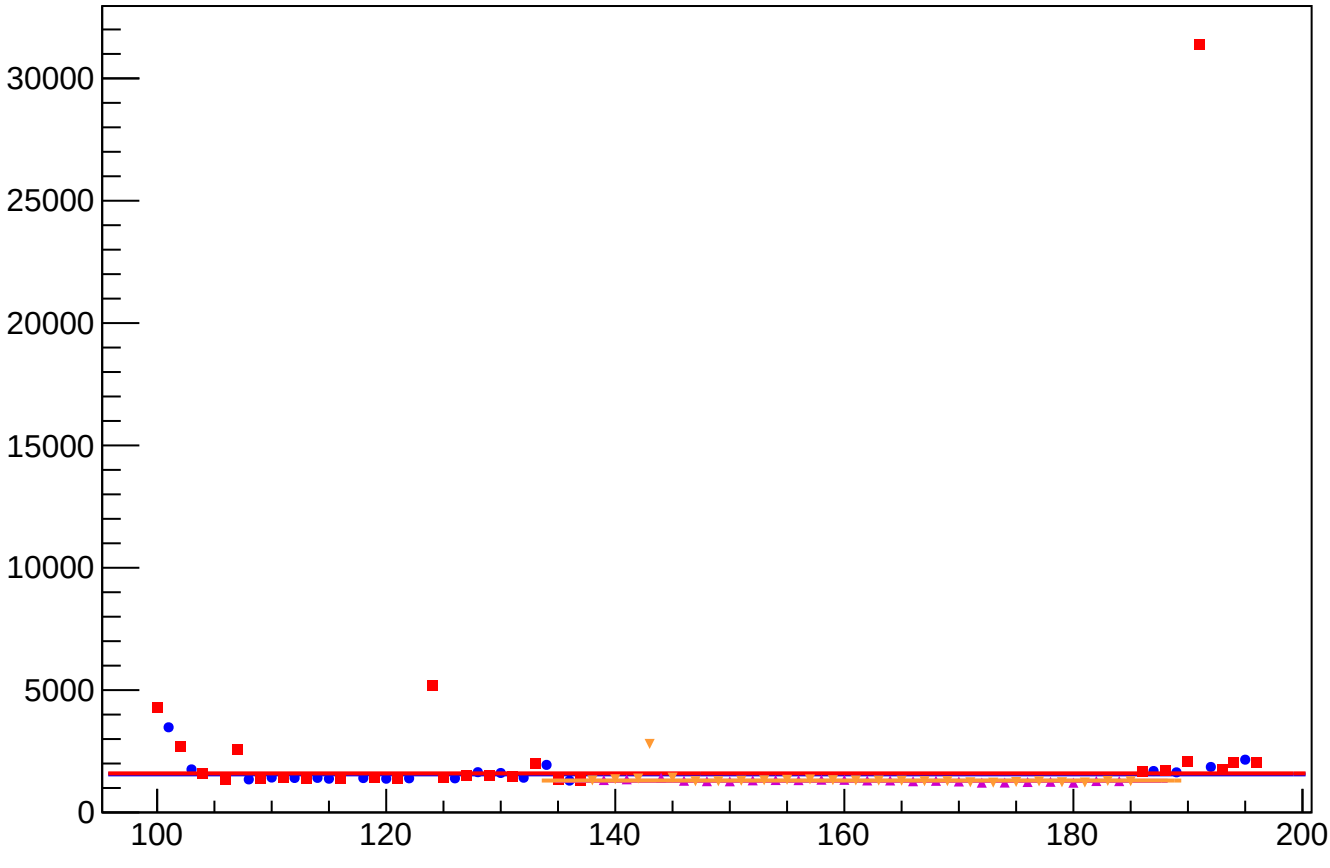
Left: -337.843+/-212.182 $\chi^2$/NDF: 61.2/47

Right: -697.390+/-349.245 $\chi^2$/NDF: 28.0/45

In: -440.454+/-259.578 $\chi^2$/NDF:45.6/42

Out: -429.365+/-253.434 $\chi^2$/NDF:44.4/50

All: -434.776+/-181.338 $\chi^2$/NDF: 90.0/93




Right In: 1556.304+/-0.359 $\chi^2$/NDF: 807782.1/19

Left Out: 1304.156+/-0.211 $\chi^2$/NDF:519609.1/24

Right Out: 1597.038+/-0.340 $\chi^2$/NDF: 1056041.4/25

Left In: 1292.123+/-0.213 $\chi^2$/NDF:48343.1/22

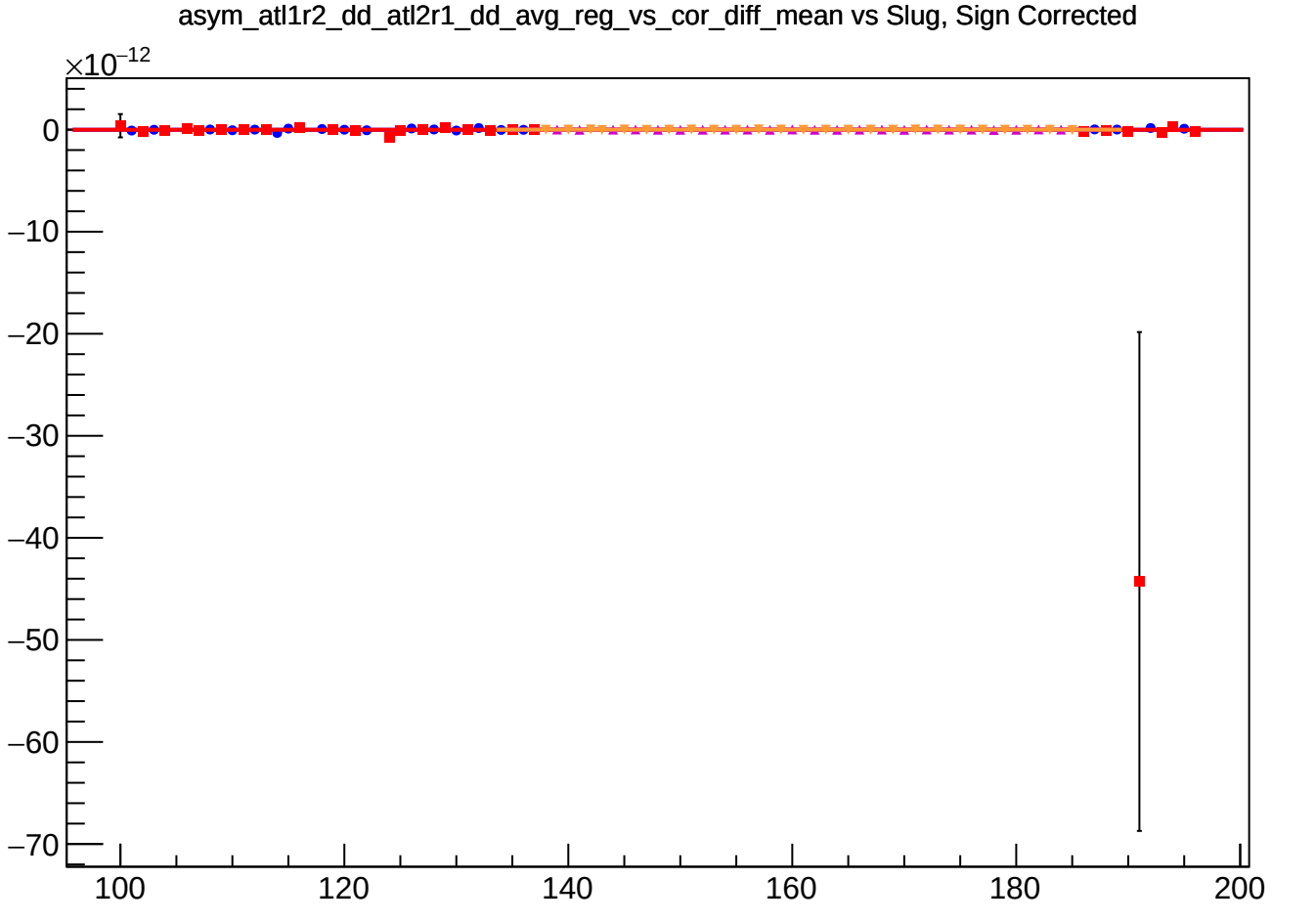
Left: 1298.212+/-0.150 $\chi^2$/NDF: 569560.1/47

Right: 1577.813+/-0.247 $\chi^2$/NDF: 1870603.9/45

In: 1361.004+/-0.184 $\chi^2$/NDF:1255422.4/42

Out: 1385.592+/-0.179 $\chi^2$/NDF:2111838.9/50

All: 1373.592+/-0.128 $\chi^2$/NDF: 3376449.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.6/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 54.2/47

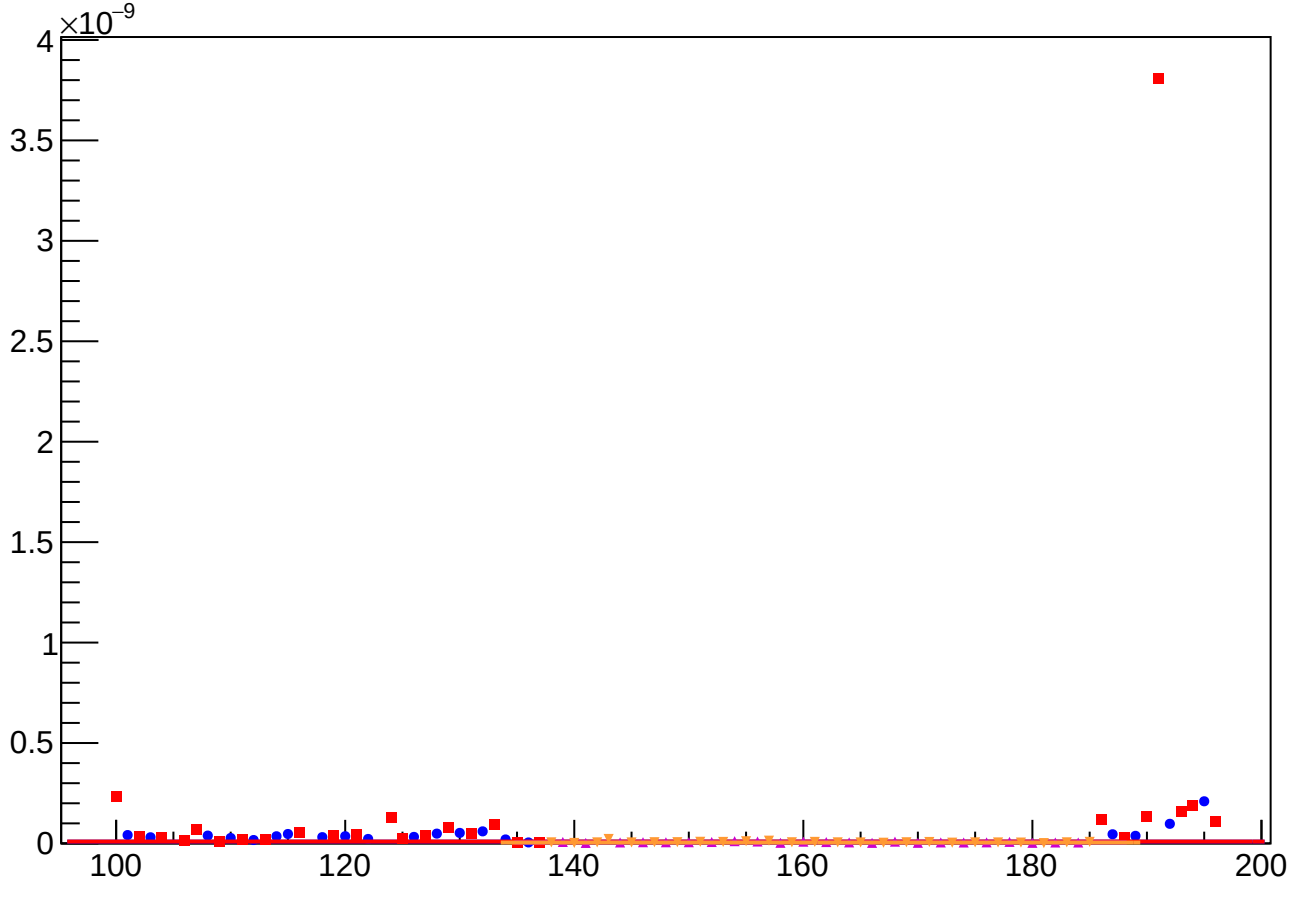
Right: -0.000+/-0.000 $\chi^2$/NDF: 43.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:42.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:59.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 102.1/93

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4556088.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2715297.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6299061.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1884808.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4620695.3/47

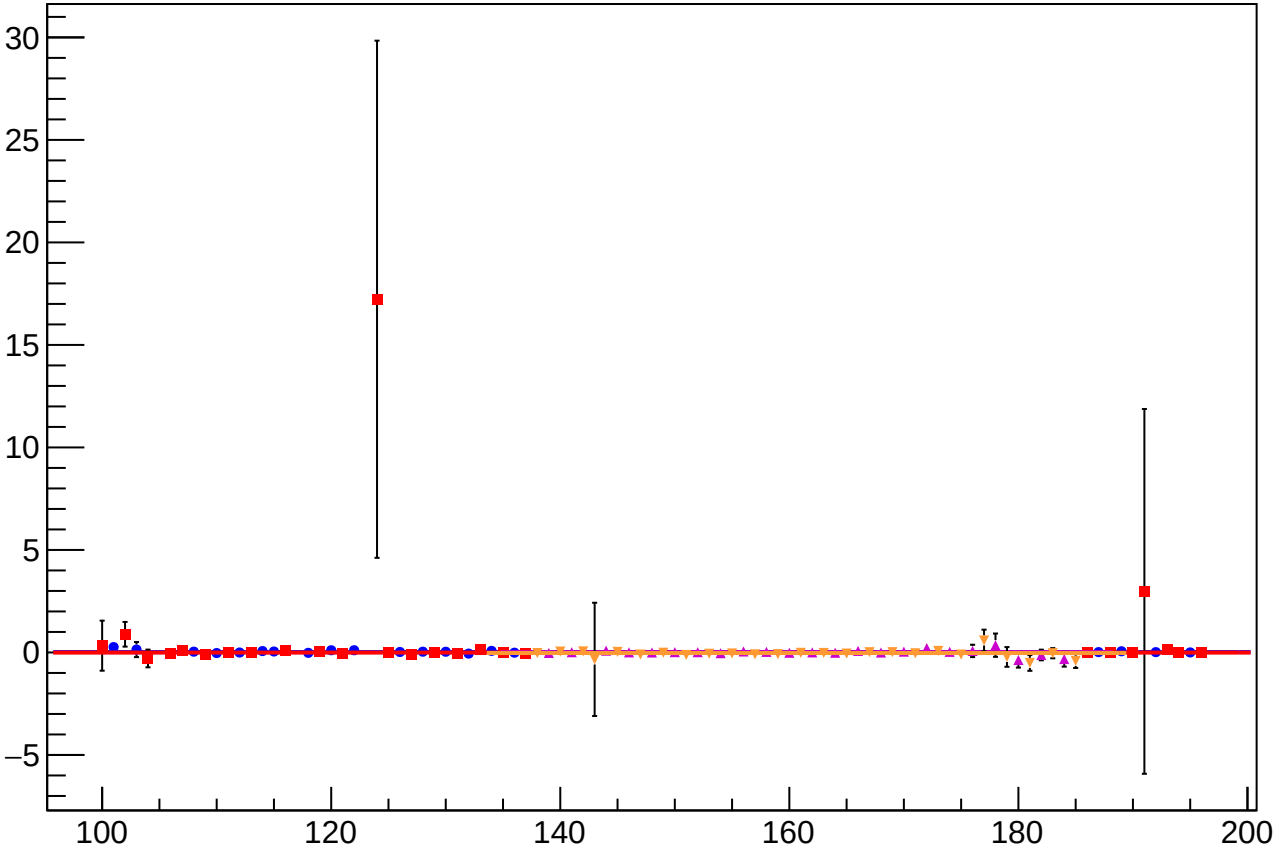
Right: 0.000+/-0.000 $\chi^2$/NDF: 10861968.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:7012564.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9767603.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16805036.5/93

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

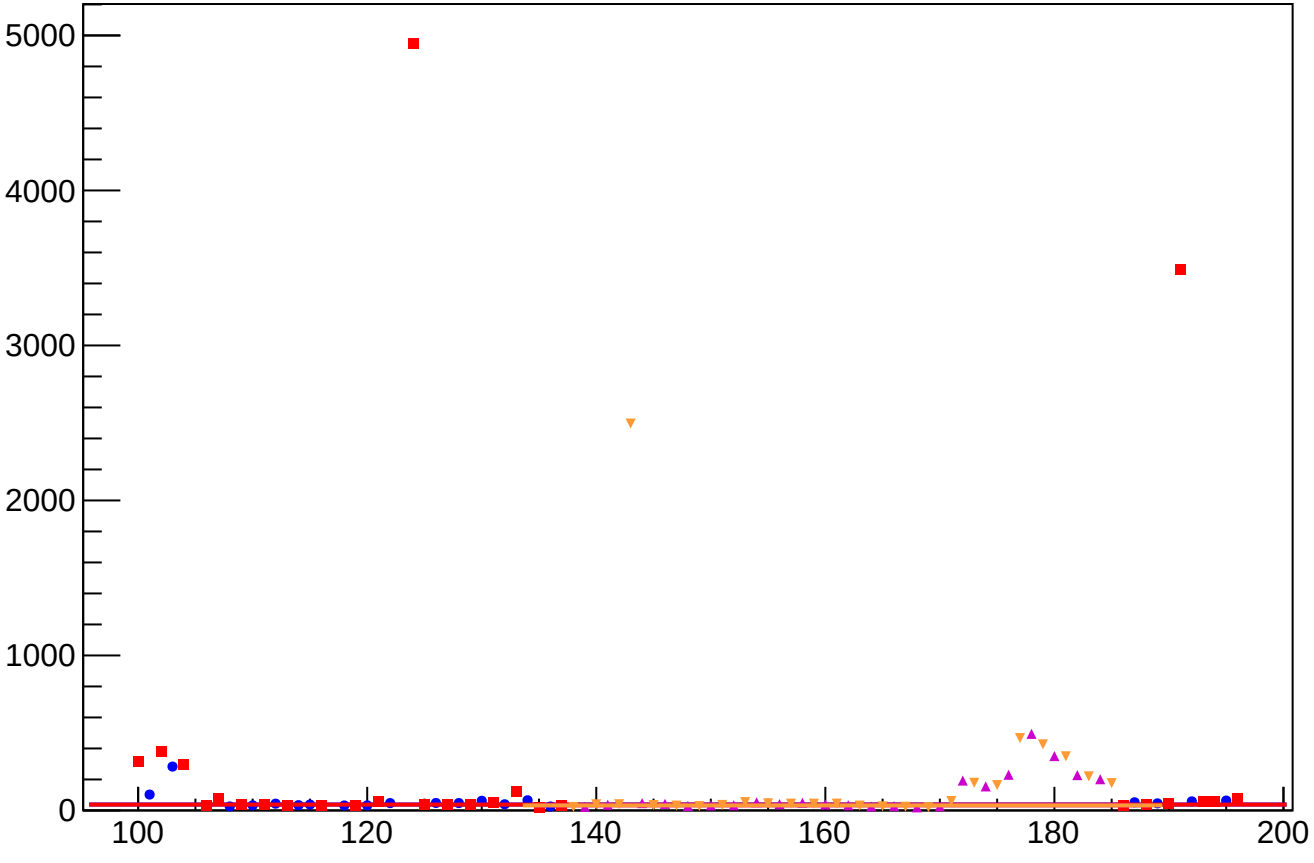
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.517+/-0.010 $\chi^2$/NDF: 2798019.4/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10871758.1/24

Right Out: 37.758+/-0.009 $\chi^2$/NDF: 4181149.5/25

Left In: 32.738+/-0.007 $\chi^2$/NDF:8963240.8/22

Left: 32.645+/-0.005 $\chi^2$/NDF: 19835386.0/47

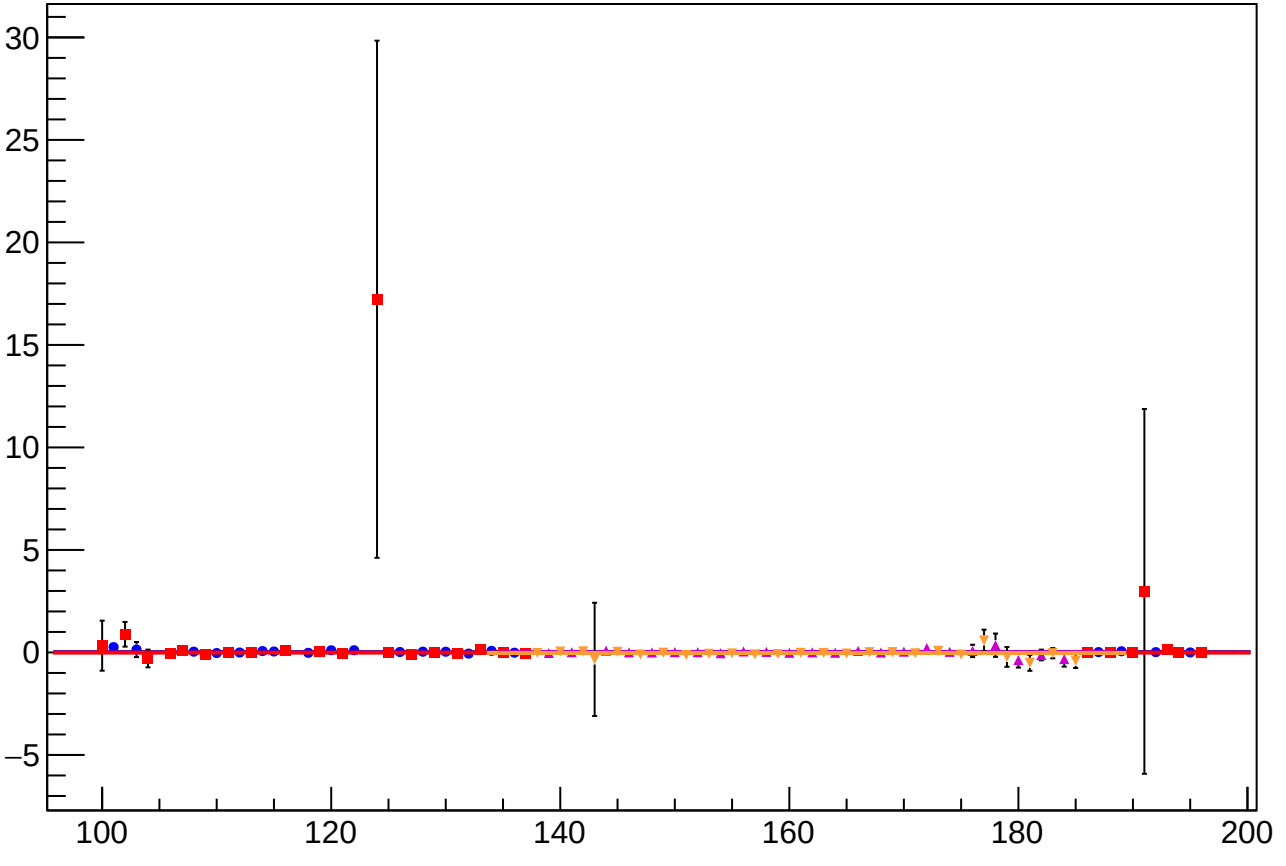
Right: 38.106+/-0.007 $\chi^2$/NDF: 6982206.4/45

In: 34.503+/-0.006 $\chi^2$/NDF:11987257.6/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258182.2/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27245895.9/93

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

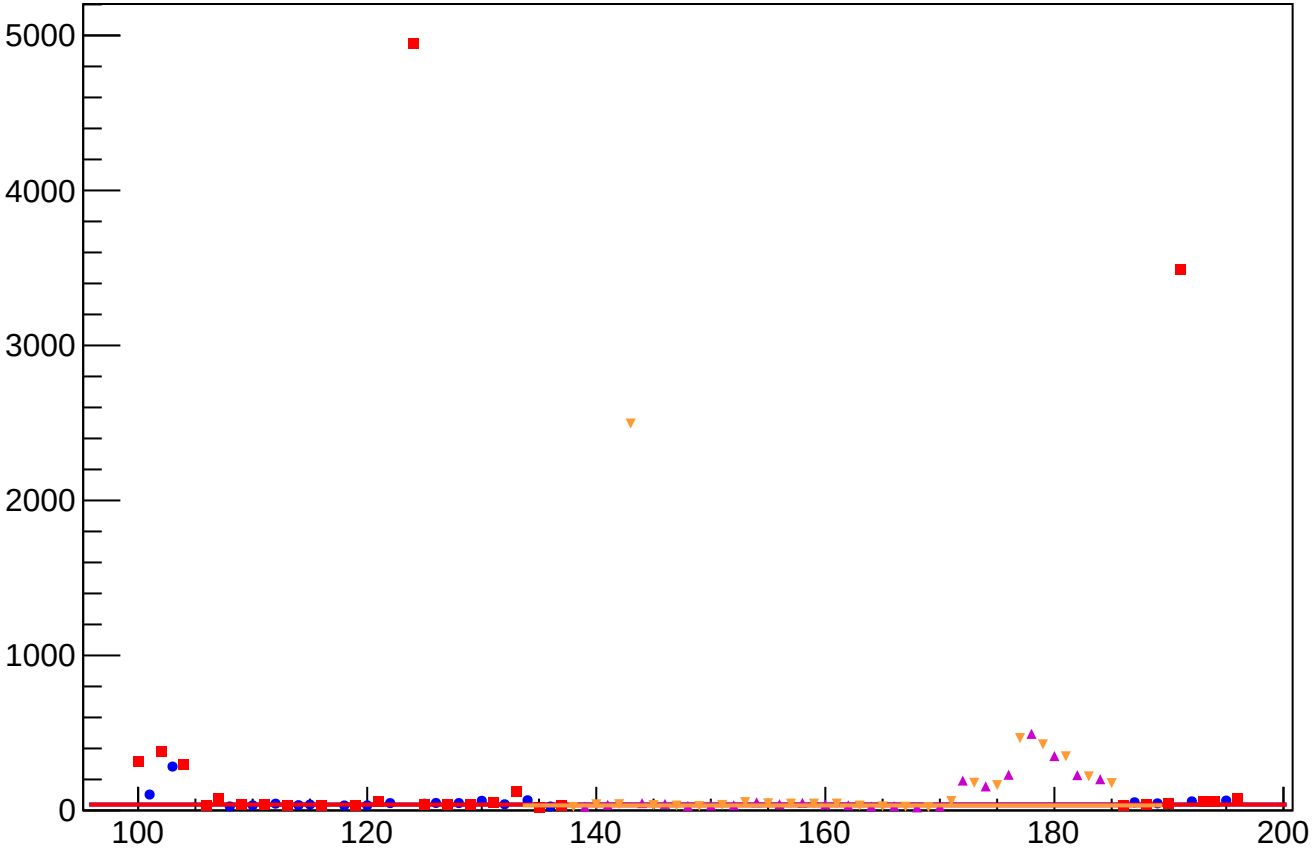
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.517+/-0.010 $\chi^2$/NDF: 2798019.4/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10871758.1/24

Right Out: 37.758+/-0.009 $\chi^2$/NDF: 4181149.5/25

Left In: 32.738+/-0.007 $\chi^2$/NDF:8963240.8/22

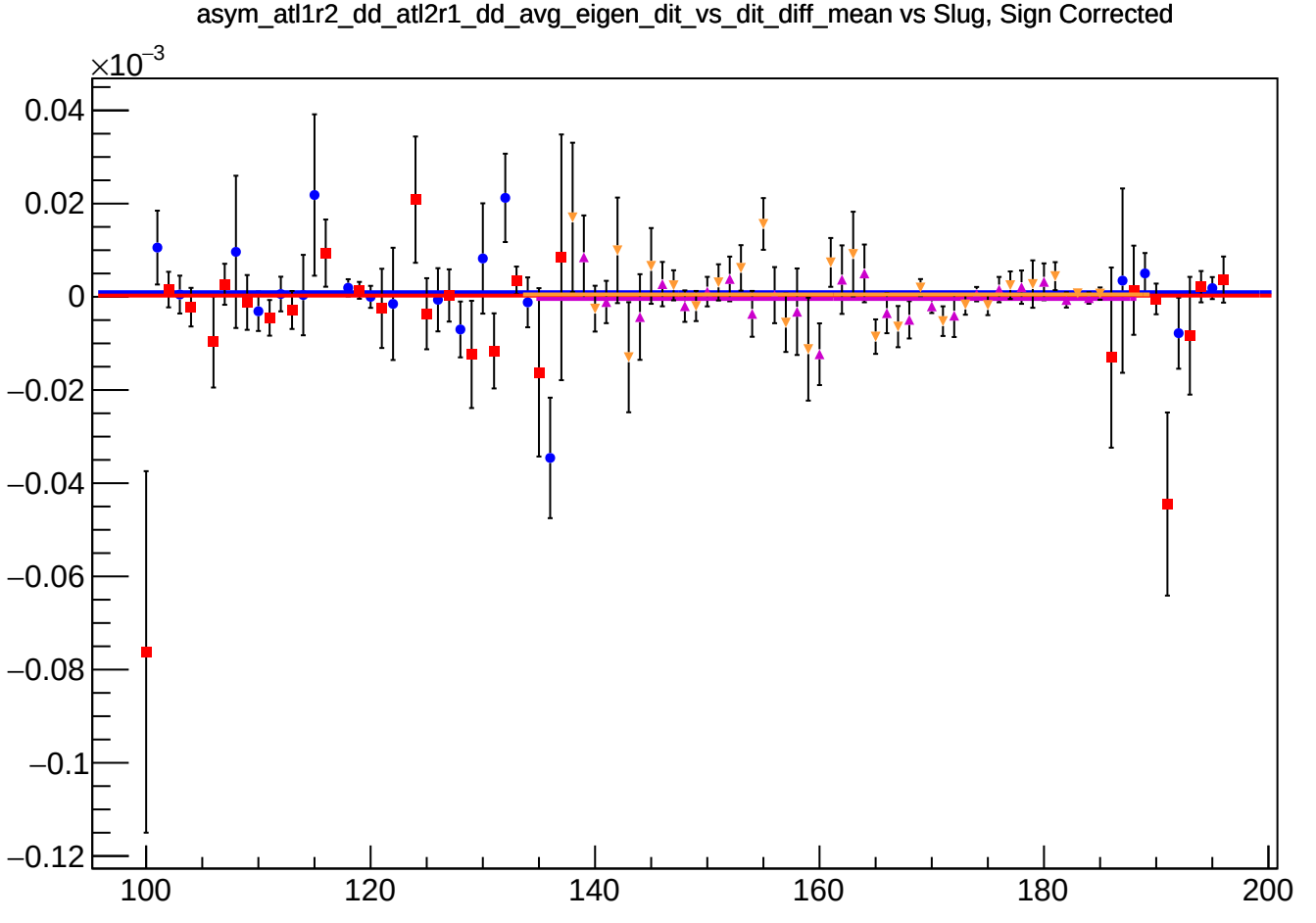
Left: 32.645+/-0.005 $\chi^2$/NDF: 19835386.0/47

Right: 38.106+/-0.007 $\chi^2$/NDF: 6982206.4/45

In: 34.503+/-0.006 $\chi^2$/NDF:11987257.6/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258182.2/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27245895.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 50.9/47

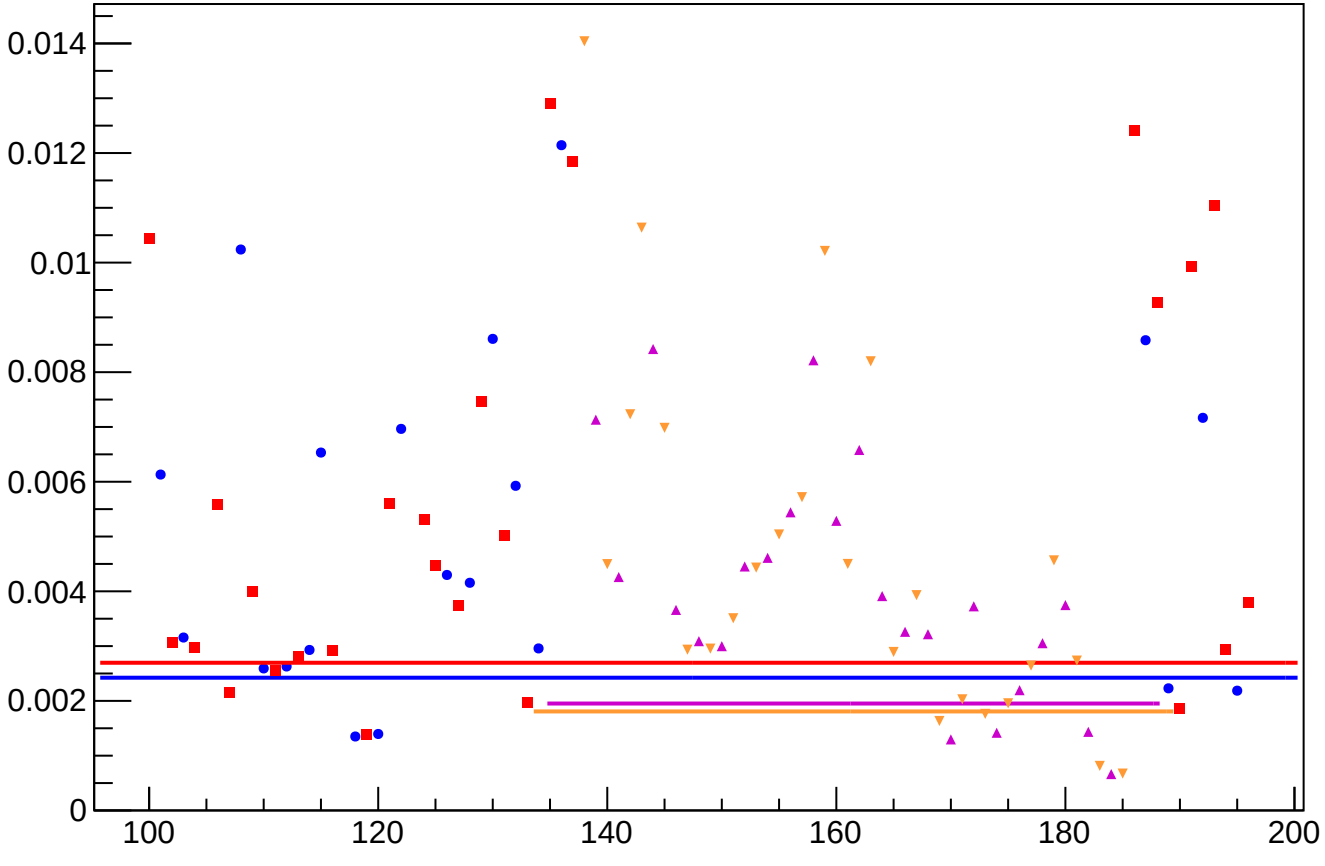
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:36.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:60.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 98.2/93

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: 5718326.9/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:14941257.4/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6286975.1/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:11478607.0/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 26484379.9/47

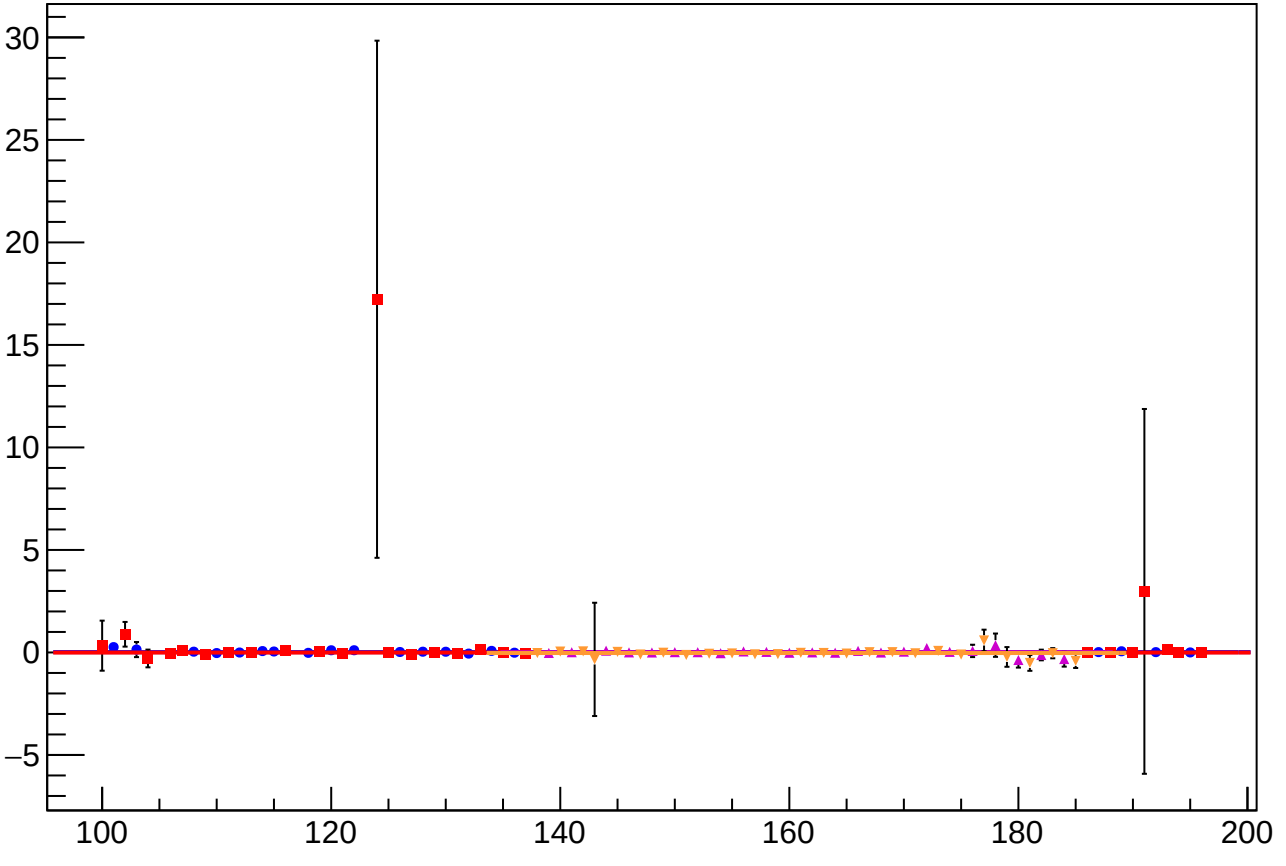
Right: 0.003+/-0.000 $\chi^2$/NDF: 12087012.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:17543392.8/42

Out: 0.002+/-0.000 $\chi^2$/NDF:22559214.0/50

All: 0.002+/-0.000 $\chi^2$/NDF: 40112091.0/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

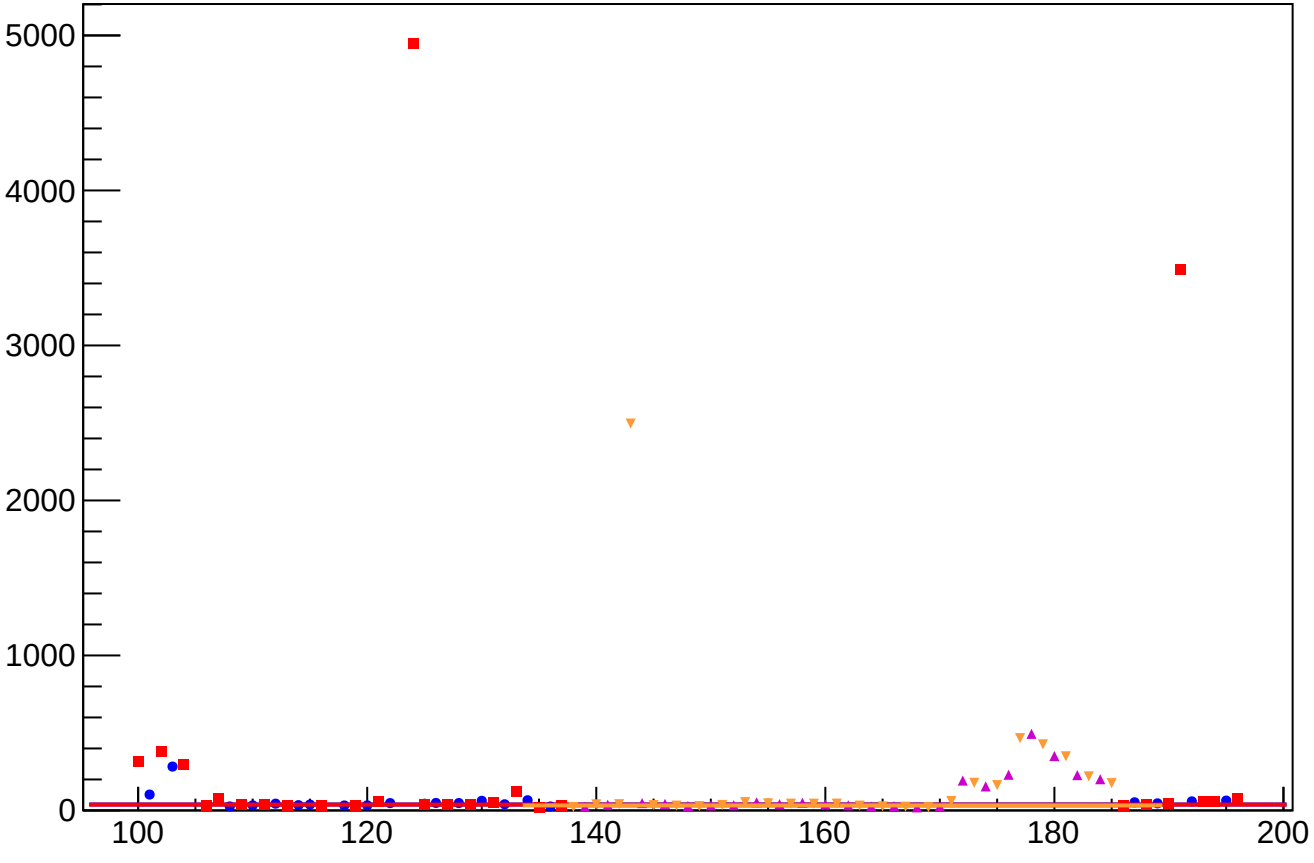
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.518+/-0.010 $\chi^2$/NDF: 2797609.2/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10872015.8/24

Right Out: 37.759+/-0.009 $\chi^2$/NDF: 4180901.9/25

Left In: 32.737+/-0.007 $\chi^2$/NDF:8963873.9/22

Left: 32.644+/-0.005 $\chi^2$/NDF: 19836272.3/47

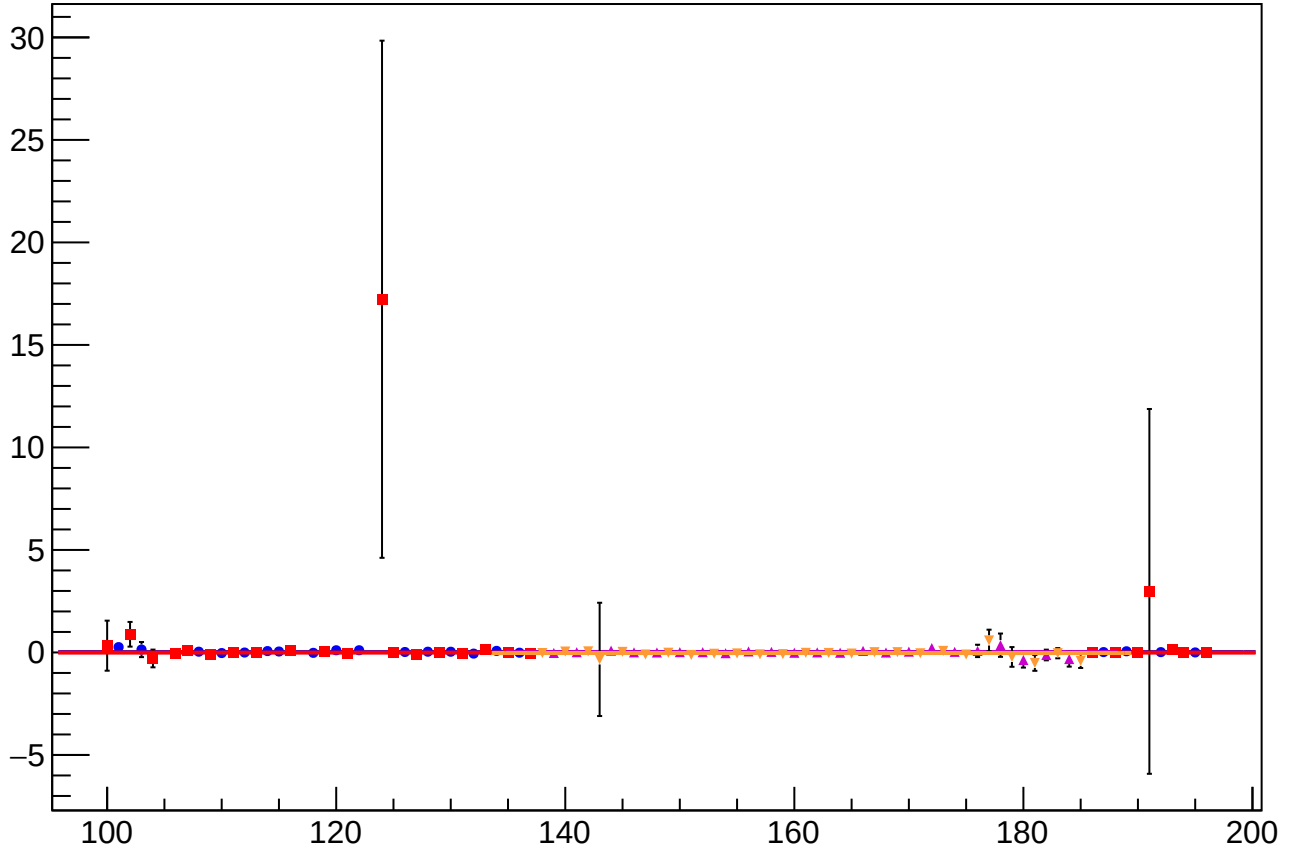
Right: 38.107+/-0.007 $\chi^2$/NDF: 6981557.6/45

In: 34.502+/-0.006 $\chi^2$/NDF:11987685.7/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258226.5/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27246365.4/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.014 $\chi^2$/NDF: 11.9/19

Left Out: -0.028+/-0.010 $\chi^2$/NDF:28.1/24

Right Out: -0.005+/-0.013 $\chi^2$/NDF: 20.1/25

Left In: 0.011+/-0.009 $\chi^2$/NDF:13.2/22

Left: -0.008+/-0.007 $\chi^2$/NDF: 49.6/47

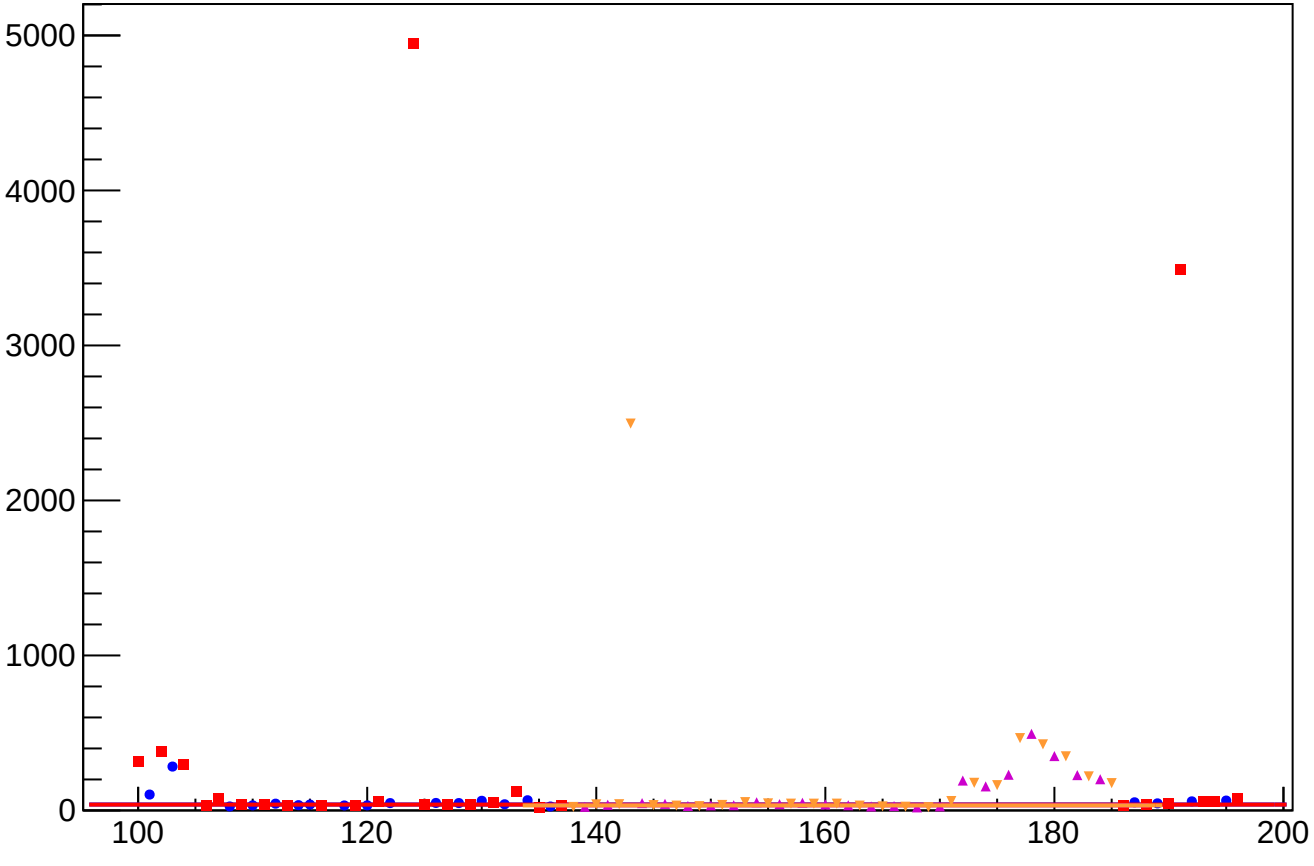
Right: 0.005+/-0.010 $\chi^2$/NDF: 33.3/45

In: 0.013+/-0.008 $\chi^2$/NDF:25.2/42

Out: -0.020+/-0.008 $\chi^2$/NDF:50.2/50

All: -0.004+/-0.006 $\chi^2$/NDF: 84.3/93

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.518+/-0.010 $\chi^2$/NDF: 2797609.2/19

Left Out: 32.551+/-0.007 $\chi^2$/NDF:10872015.8/24

Right Out: 37.759+/-0.009 $\chi^2$/NDF: 4180901.9/25

Left In: 32.737+/-0.007 $\chi^2$/NDF:8963873.9/22

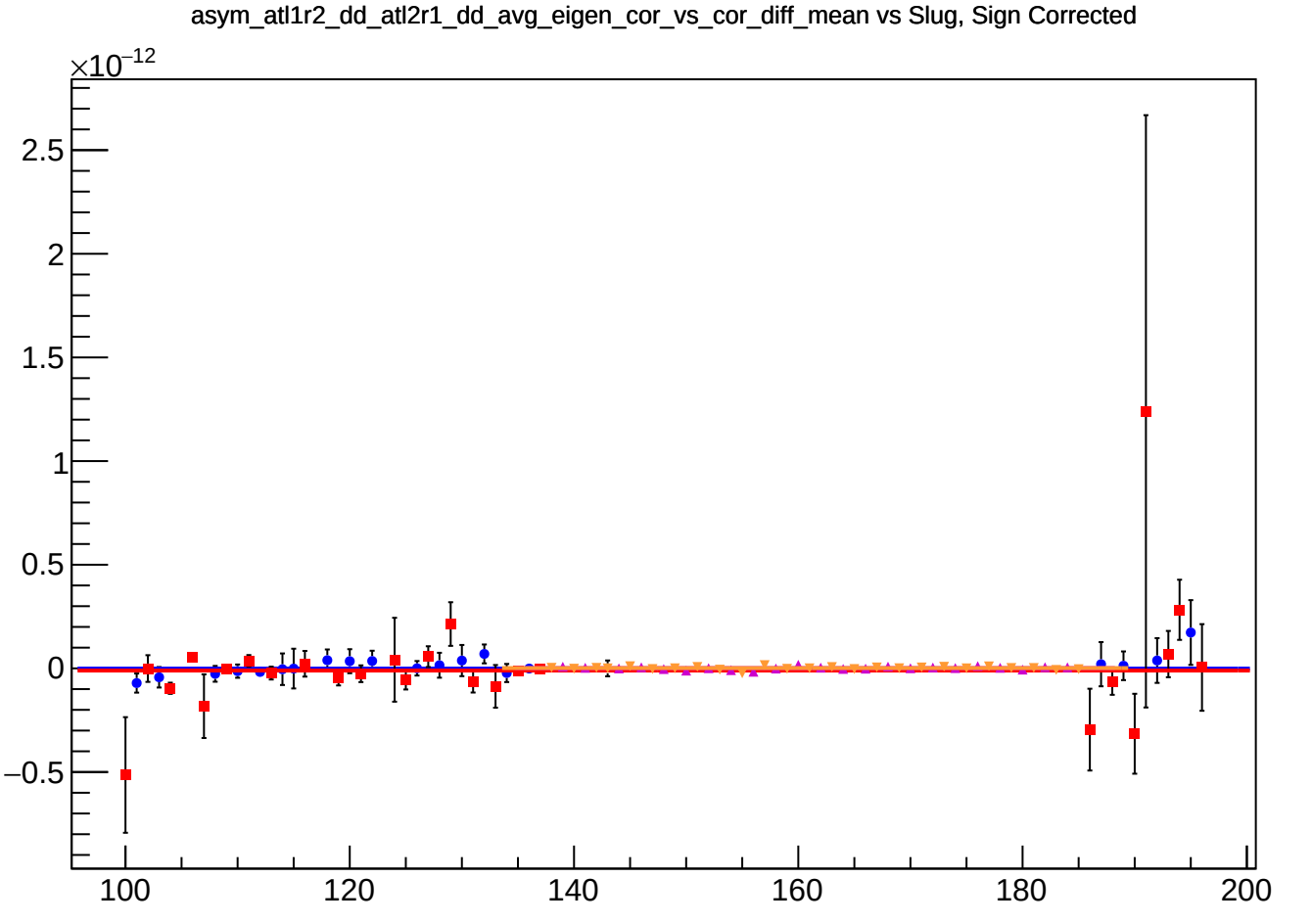
Left: 32.644+/-0.005 $\chi^2$/NDF: 19836272.3/47

Right: 38.107+/-0.007 $\chi^2$/NDF: 6981557.6/45

In: 34.502+/-0.006 $\chi^2$/NDF:11987685.7/42

Out: 34.336+/-0.005 $\chi^2$/NDF:15258226.5/50

All: 34.417+/-0.004 $\chi^2$/NDF: 27246365.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 10.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 50.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.7/22

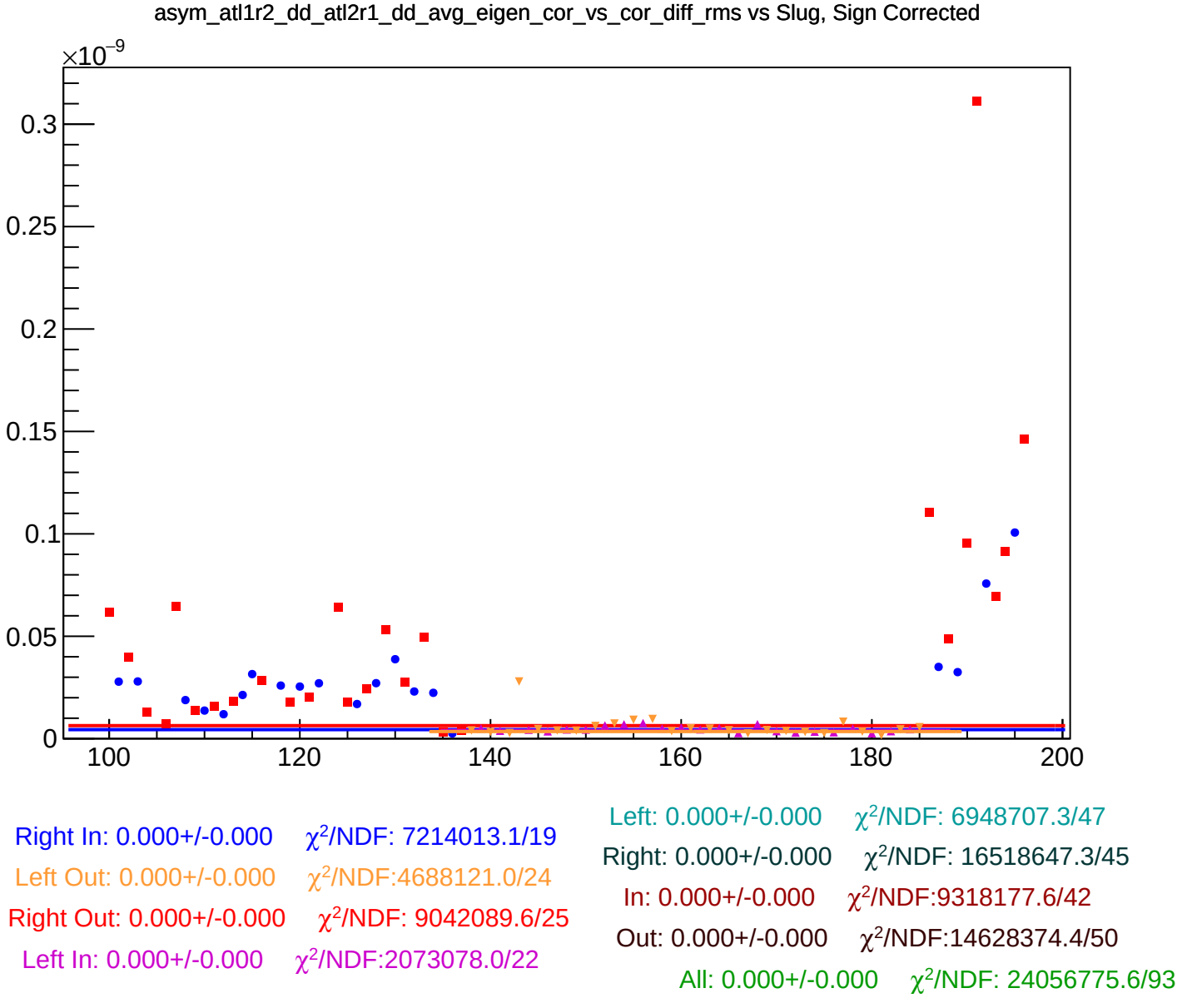
Left: 0.000+/-0.000 $\chi^2$/NDF: 46.8/47

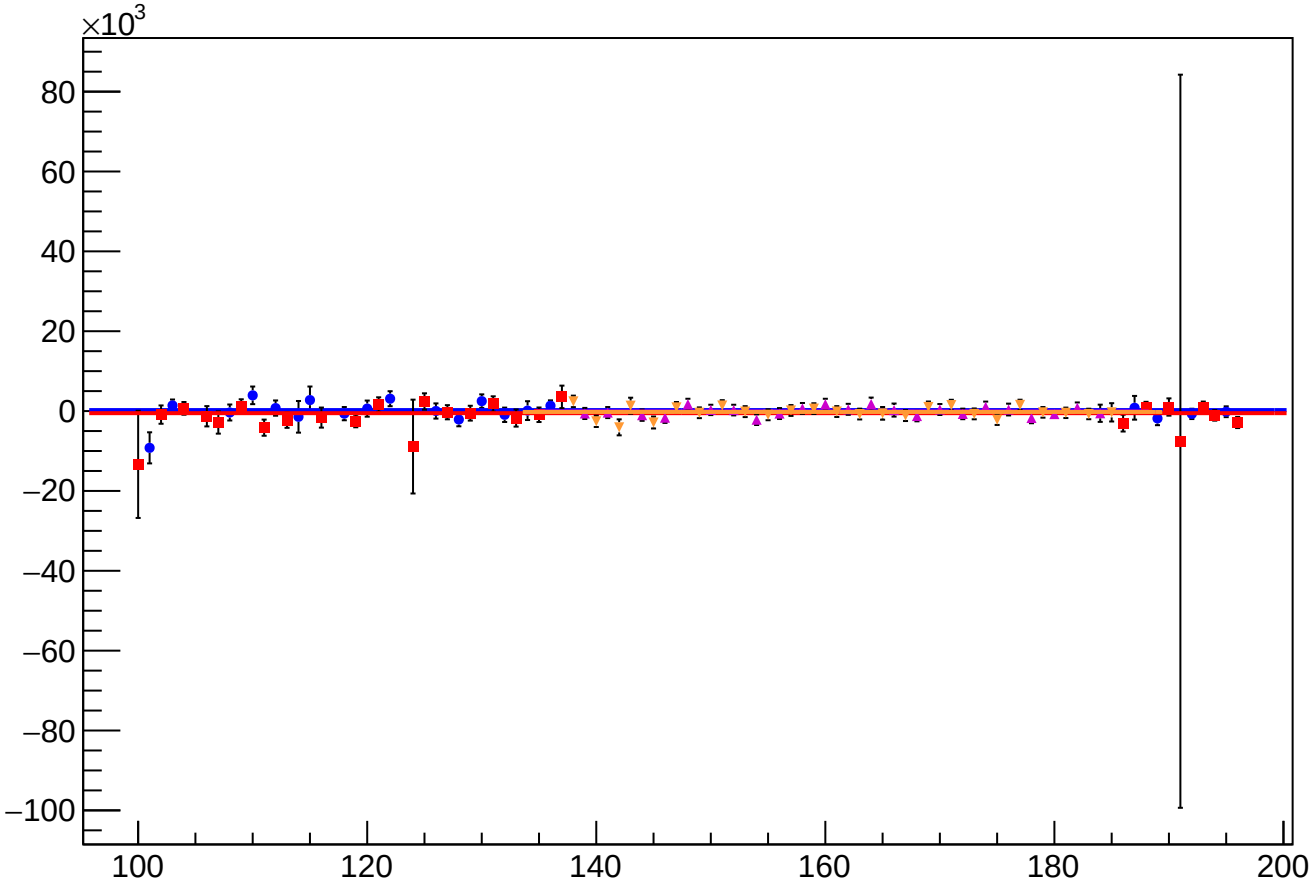
Right: -0.000+/-0.000 $\chi^2$/NDF: 63.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:39.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:76.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 115.5/93


asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 7214013.1/19
Left Out: 0.000+/-0.000 χ²/NDF:4688121.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 9042089.6/25
Left In: 0.000+/-0.000 χ²/NDF:2073078.0/22
Left: 0.000+/-0.000 χ²/NDF: 6948707.3/47
Right: 0.000+/-0.000 χ²/NDF: 16518647.3/45
In: 0.000+/-0.000 χ²/NDF:9318177.6/42
Out: 0.000+/-0.000 χ²/NDF:14628374.4/50
All: 0.000+/-0.000 χ²/NDF: 24056775.6/93




Right In: 249.022+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.721+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -523.904+/-381.285 $\chi^2$/NDF: 24.0/25

Left In: -92.402+/-288.217 $\chi^2$/NDF:14.7/22

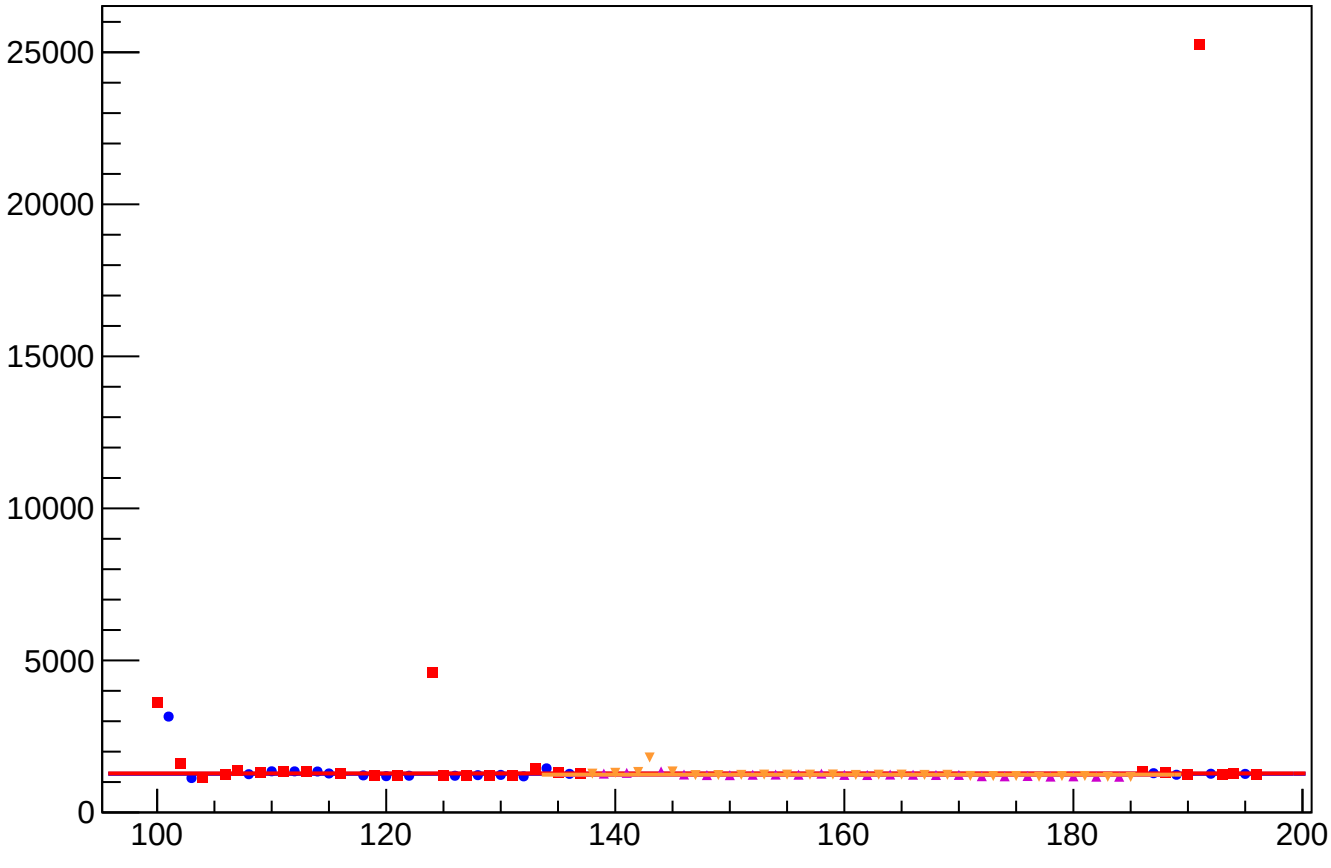
Left: -157.721+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -167.032+/-279.741 $\chi^2$/NDF: 45.6/45

In: 19.897+/-236.107 $\chi^2$/NDF:34.9/42

Out: -328.442+/-227.273 $\chi^2$/NDF:48.3/50

All: -160.911+/-163.740 $\chi^2$/NDF: 84.3/93




Right In: 1270.810+/-0.291 $\chi^2$/NDF: 520105.1/19

Left Out: 1242.825+/-0.200 $\chi^2$/NDF:203299.1/24

Right Out: 1283.835+/-0.270 $\chi^2$/NDF: 468310.2/25

Left In: 1233.752+/-0.204 $\chi^2$/NDF:39281.8/22

Left: 1238.371+/-0.143 $\chi^2$/NDF: 243589.7/47

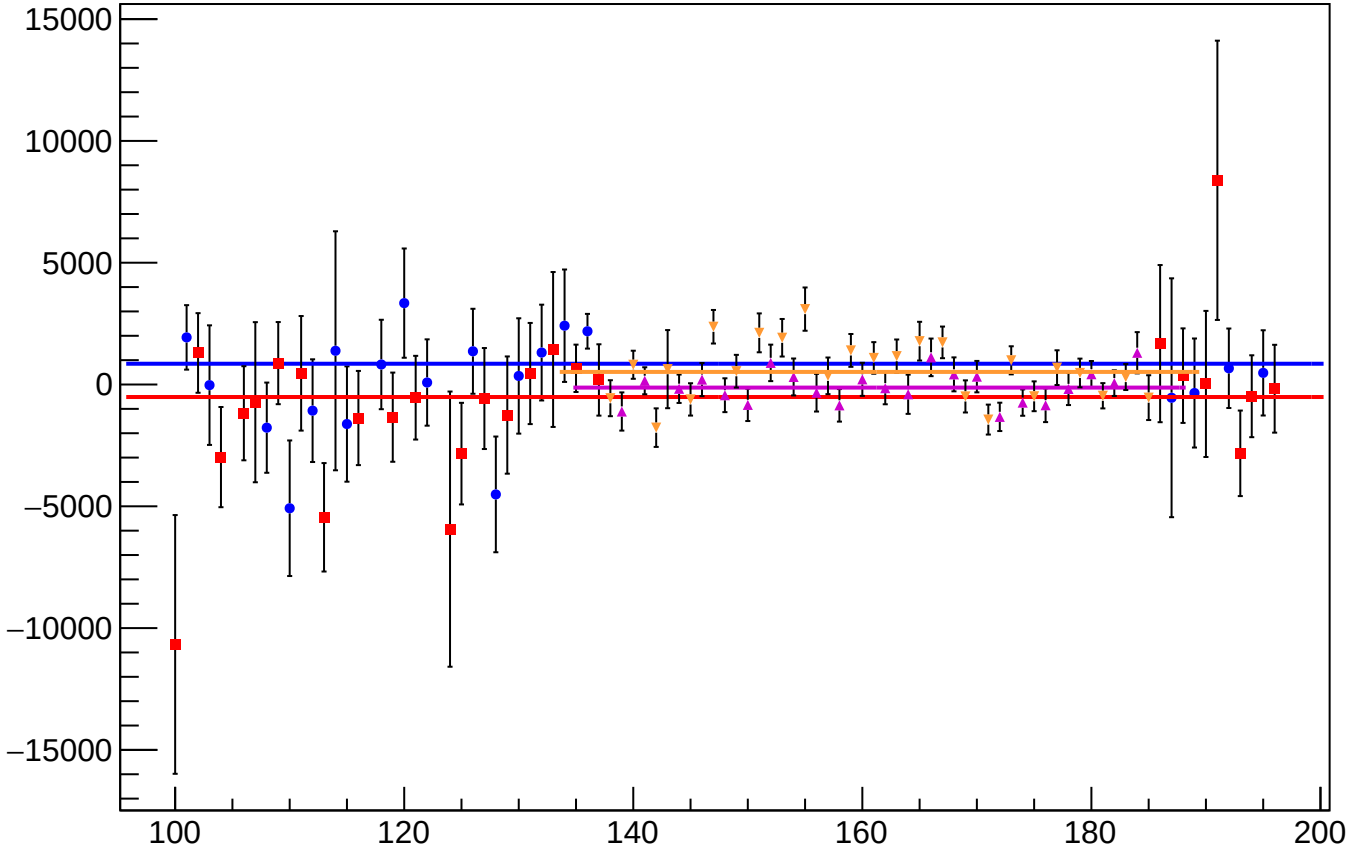
Right: 1277.821+/-0.198 $\chi^2$/NDF: 989493.0/45

In: 1245.941+/-0.167 $\chi^2$/NDF:570261.8/42

Out: 1257.396+/-0.161 $\chi^2$/NDF:686526.0/50

All: 1251.887+/-0.116 $\chi^2$/NDF: 1259231.3/93

asym_at1_dd_at2_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: 852.797+/-393.502 $\chi^2$/NDF: 20.4/19

Left Out: 516.792+/-135.746 $\chi^2$/NDF:67.0/24

Right Out: -513.469+/-387.589 $\chi^2$/NDF: 22.0/25

Left In: -126.569+/-137.266 $\chi^2$/NDF:21.6/22

Left: 198.694+/-96.520 $\chi^2$/NDF: 99.7/47

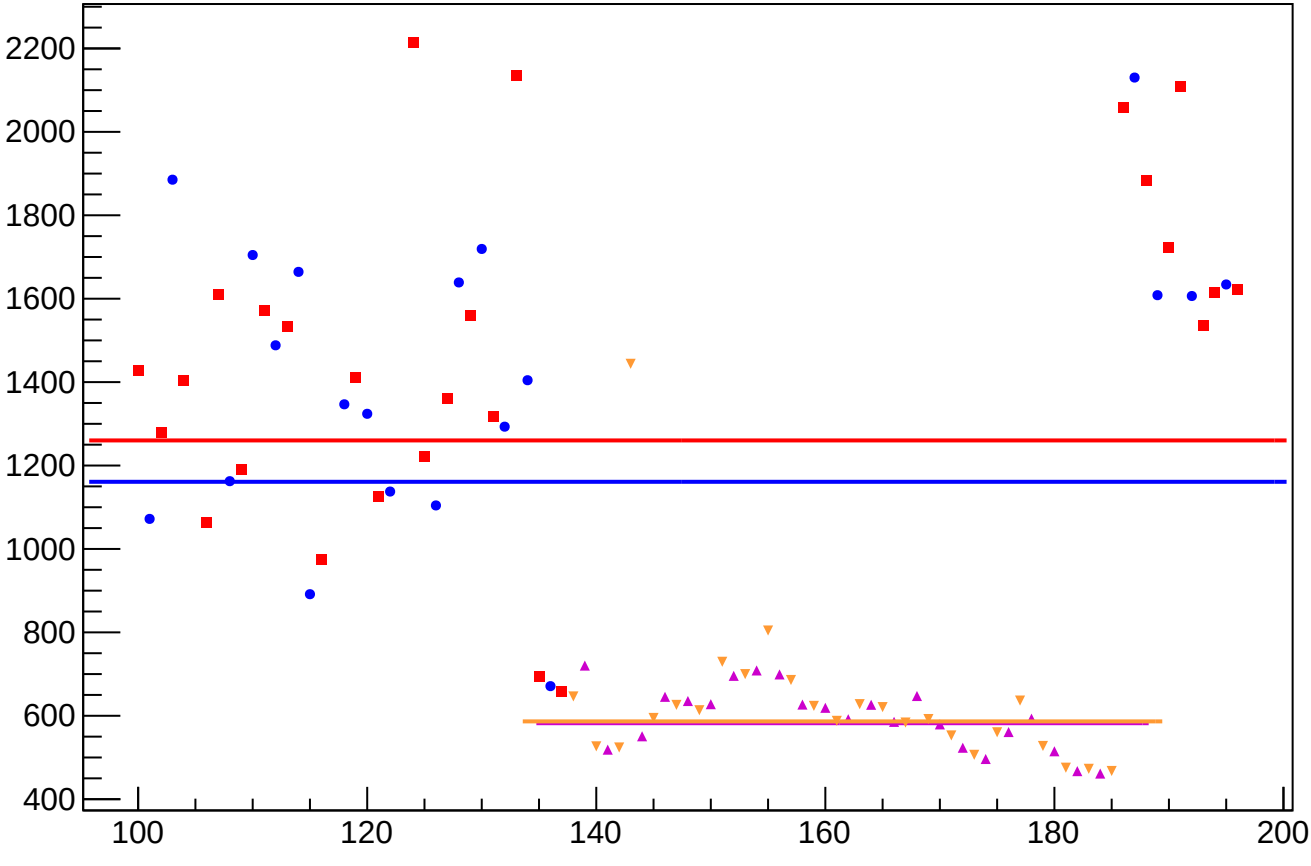
Right: 159.321+/-276.134 $\chi^2$/NDF: 48.5/45

In: -20.324+/-129.607 $\chi^2$/NDF:47.5/42

Out: 404.225+/-128.116 $\chi^2$/NDF:95.4/50

All: 194.407+/-91.114 $\chi^2$/NDF: 148.2/93

asym_at1_dd_at2_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 1160.996+/-0.278 $\chi^2$/NDF: 2009568.0/19

Left Out: 586.557+/-0.096 $\chi^2$/NDF:1202915.7/24

Right Out: 1260.190+/-0.274 $\chi^2$/NDF: 2094204.0/25

Left In: 582.190+/-0.097 $\chi^2$/NDF:559261.3/22

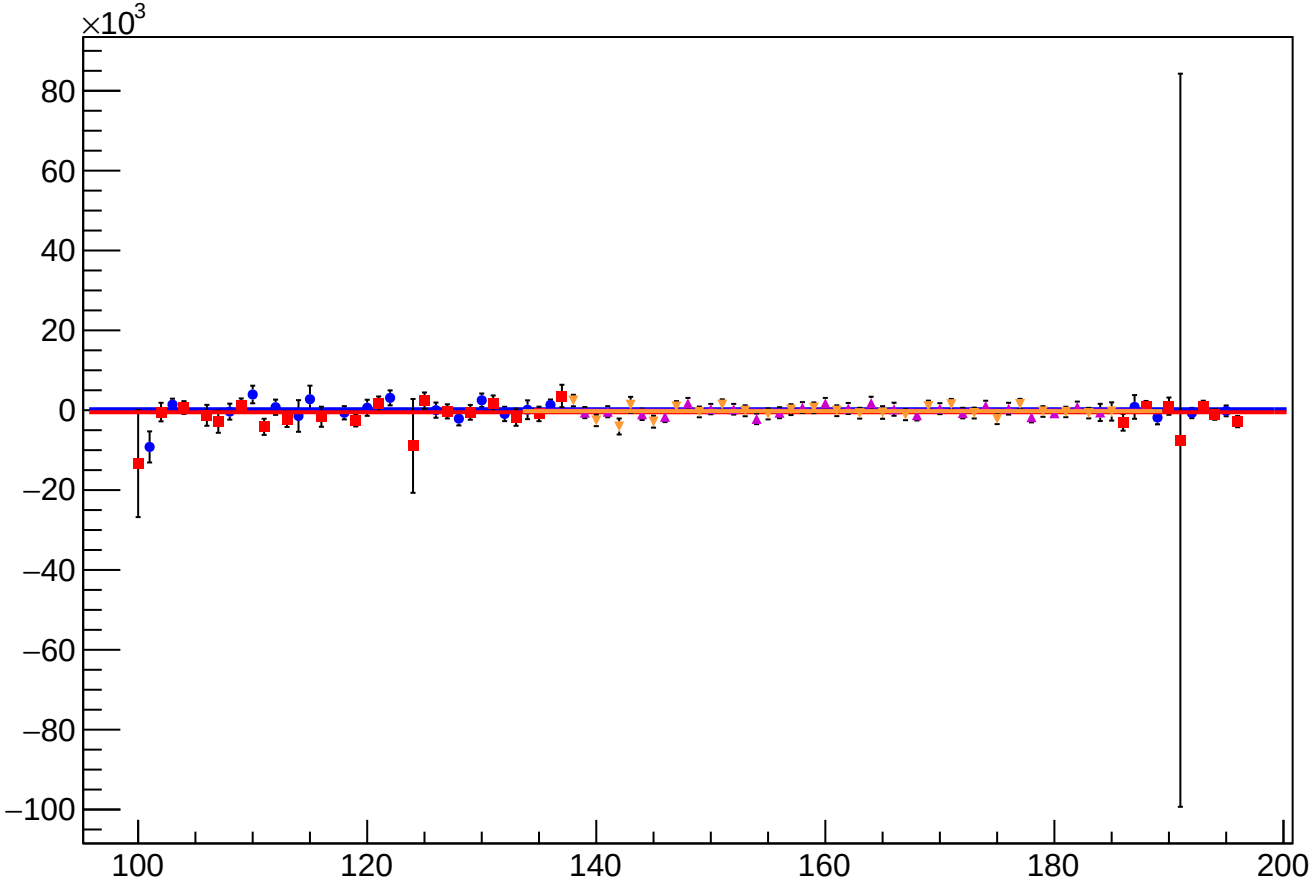
Left: 584.398+/-0.068 $\chi^2$/NDF: 1763200.3/47

Right: 1211.344+/-0.195 $\chi^2$/NDF: 4168277.8/45

In: 644.981+/-0.092 $\chi^2$/NDF:6426560.3/42

Out: 660.159+/-0.091 $\chi^2$/NDF:8678387.7/50

All: 652.658+/-0.064 $\chi^2$/NDF: 15118820.1/93




Right In: 249.255+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.755+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -511.047+/-381.693 $\chi^2$/NDF: 23.9/25

Left In: -92.472+/-288.217 $\chi^2$/NDF:14.7/22

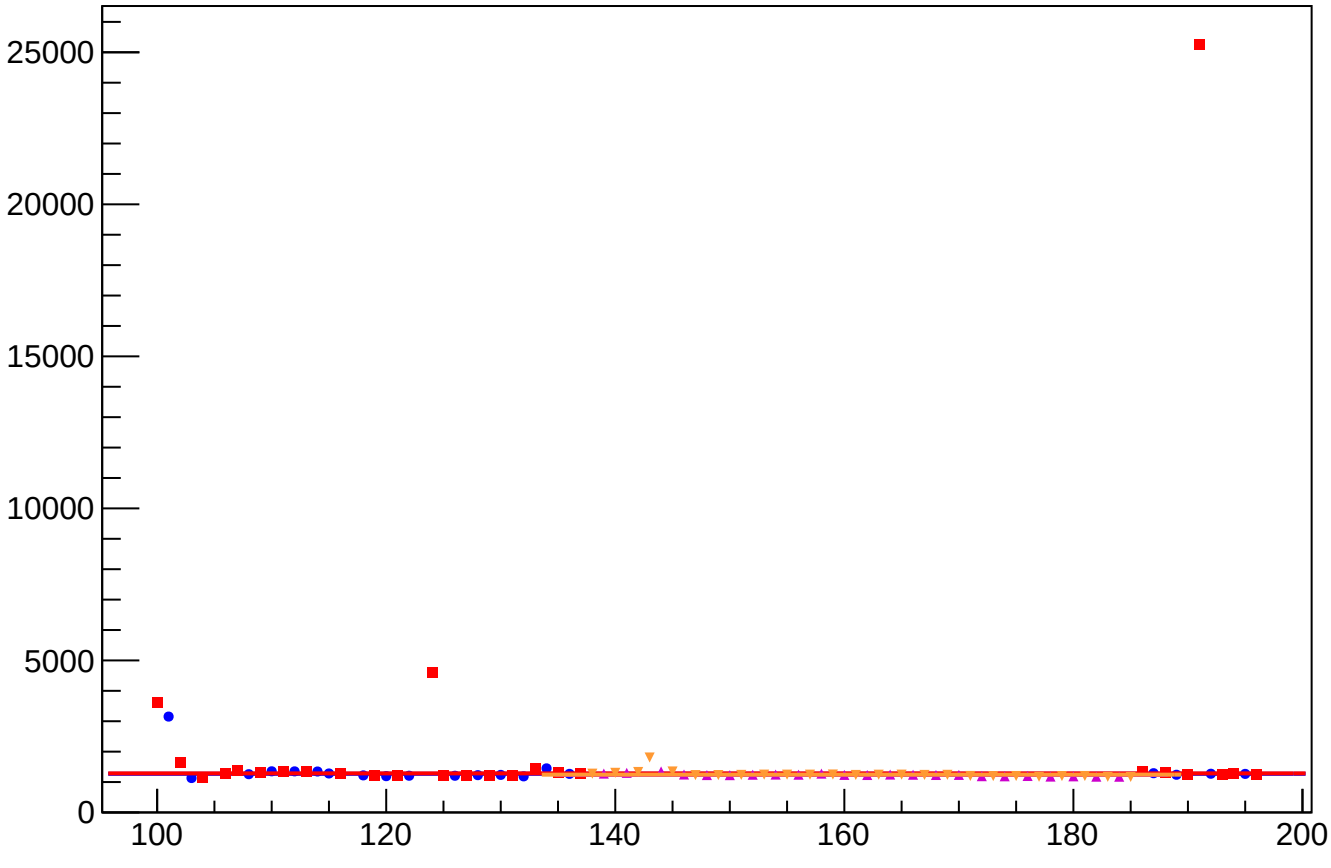
Left: -157.773+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -159.600+/-279.902 $\chi^2$/NDF: 45.5/45

In: 19.927+/-236.107 $\chi^2$/NDF:34.9/42

Out: -323.754+/-227.360 $\chi^2$/NDF:48.2/50

All: -158.398+/-163.773 $\chi^2$/NDF: 84.2/93




Right In: 1270.810+/-0.291 $\chi^2$/NDF: 520106.5/19

Left Out: 1242.825+/-0.200 $\chi^2$/NDF:203299.1/24

Right Out: 1285.278+/-0.270 $\chi^2$/NDF: 474925.1/25

Left In: 1233.752+/-0.204 $\chi^2$/NDF:39281.7/22

Left: 1238.371+/-0.143 $\chi^2$/NDF: 243589.6/47

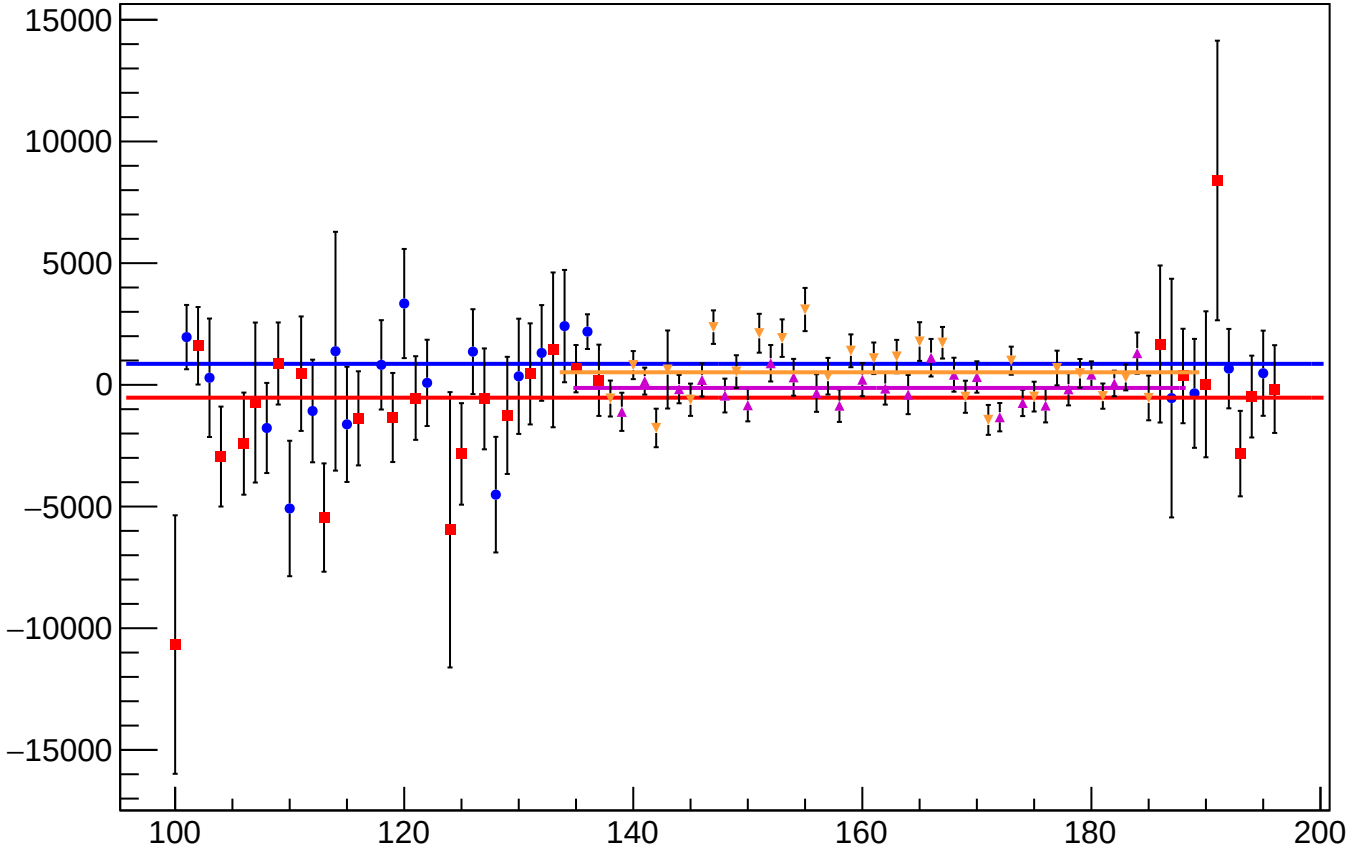
Right: 1278.590+/-0.198 $\chi^2$/NDF: 996359.9/45

In: 1245.941+/-0.167 $\chi^2$/NDF:570263.1/42

Out: 1257.888+/-0.161 $\chi^2$/NDF:694186.8/50

All: 1252.140+/-0.116 $\chi^2$/NDF: 1267106.8/93

asym_at1_dd_at2_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: 863.441+/-393.363 $\chi^2$/NDF: 20.3/19

Left Out: 516.811+/-135.747 $\chi^2$/NDF:67.0/24

Right Out: -526.910+/-388.175 $\chi^2$/NDF: 23.3/25

Left In: -126.549+/-137.266 $\chi^2$/NDF:21.6/22

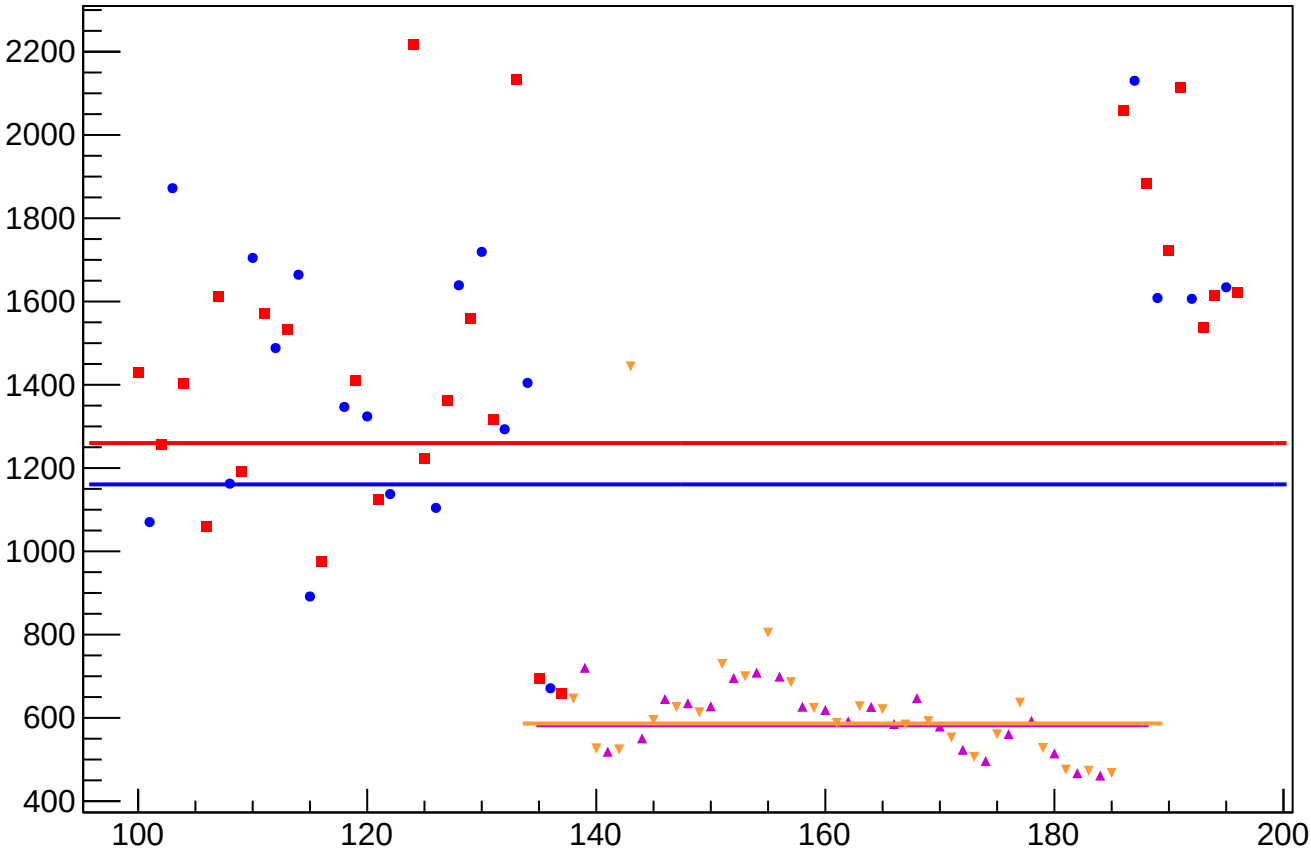
Left: 198.710+/-96.520 $\chi^2$/NDF: 99.7/47

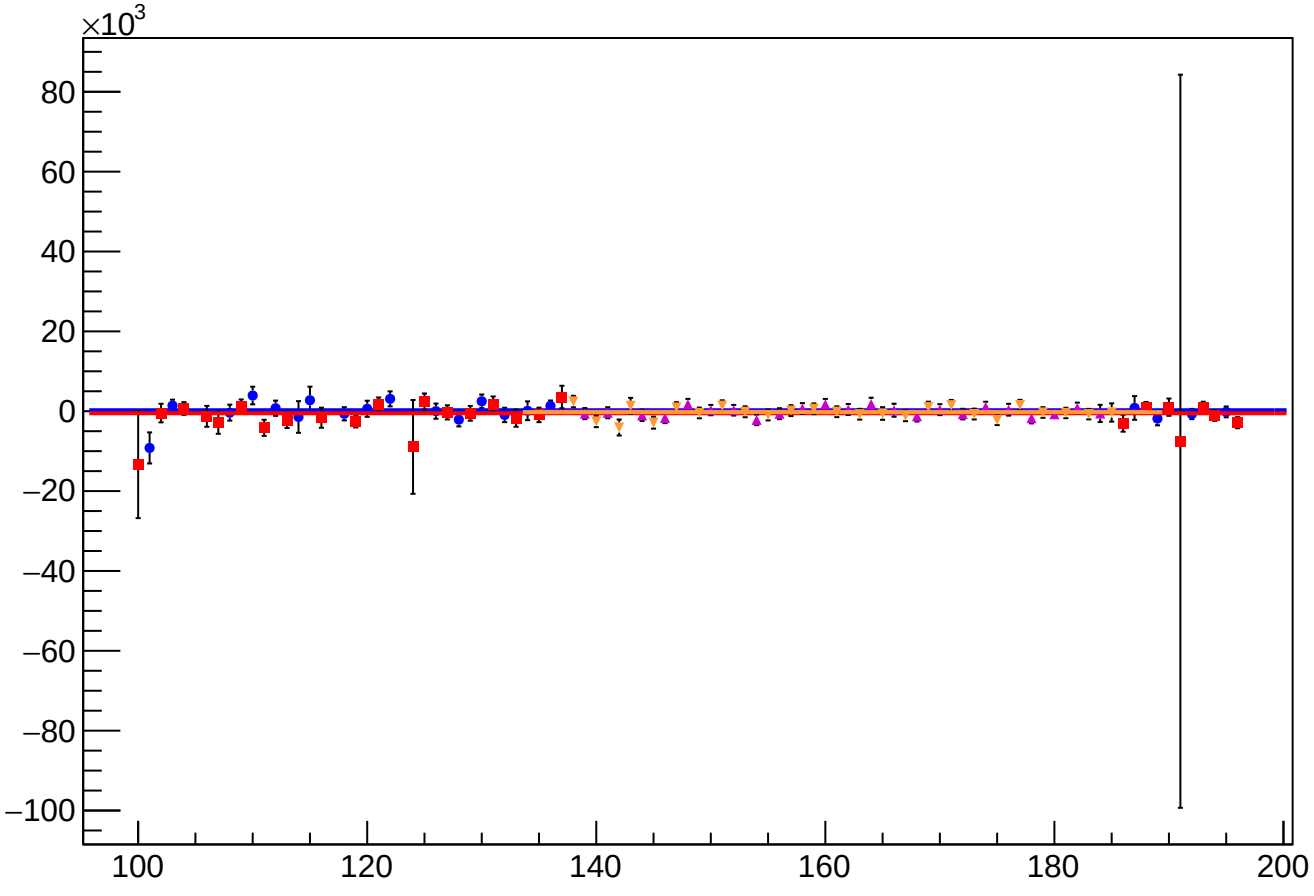
Right: 159.038+/-276.297 $\chi^2$/NDF: 49.9/45

In: -19.085+/-129.602 $\chi^2$/NDF:47.5/42

Out: 403.079+/-128.138 $\chi^2$/NDF:96.7/50

All: 194.395+/-91.120 $\chi^2$/NDF: 149.6/93


asym_at1_dd_at2_dd_avg_cor_correction_rms vs Slug, Sign Corrected
2200
2000
1800
1600
1400
1200
1000
800
600
400
100
120
140
160
180
200
Right In: 1160.778+/-0.278 χ²/NDF: 2006451.1/19
Left Out: 586.562+/-0.096 χ²/NDF:1202822.0/24
Right Out: 1260.008+/-0.274 χ²/NDF: 2091705.9/25
Left In: 582.189+/-0.097 χ²/NDF:559258.0/22
Left: 584.400+/-0.068 χ²/NDF: 1763106.4/47
Right: 1211.051+/-0.195 χ²/NDF: 4162637.2/45
In: 644.995+/-0.092 χ²/NDF:6422988.5/42
Out: 659.946+/-0.091 χ²/NDF:8658333.2/50
All: 652.555+/-0.064 χ²/NDF: 15094780.3/93




Right In: 249.255+/-411.688 $\chi^2$/NDF: 19.7/19

Left Out: -220.755+/-283.055 $\chi^2$/NDF:23.9/24

Right Out: -511.047+/-381.693 $\chi^2$/NDF: 23.9/25

Left In: -92.472+/-288.217 $\chi^2$/NDF:14.7/22

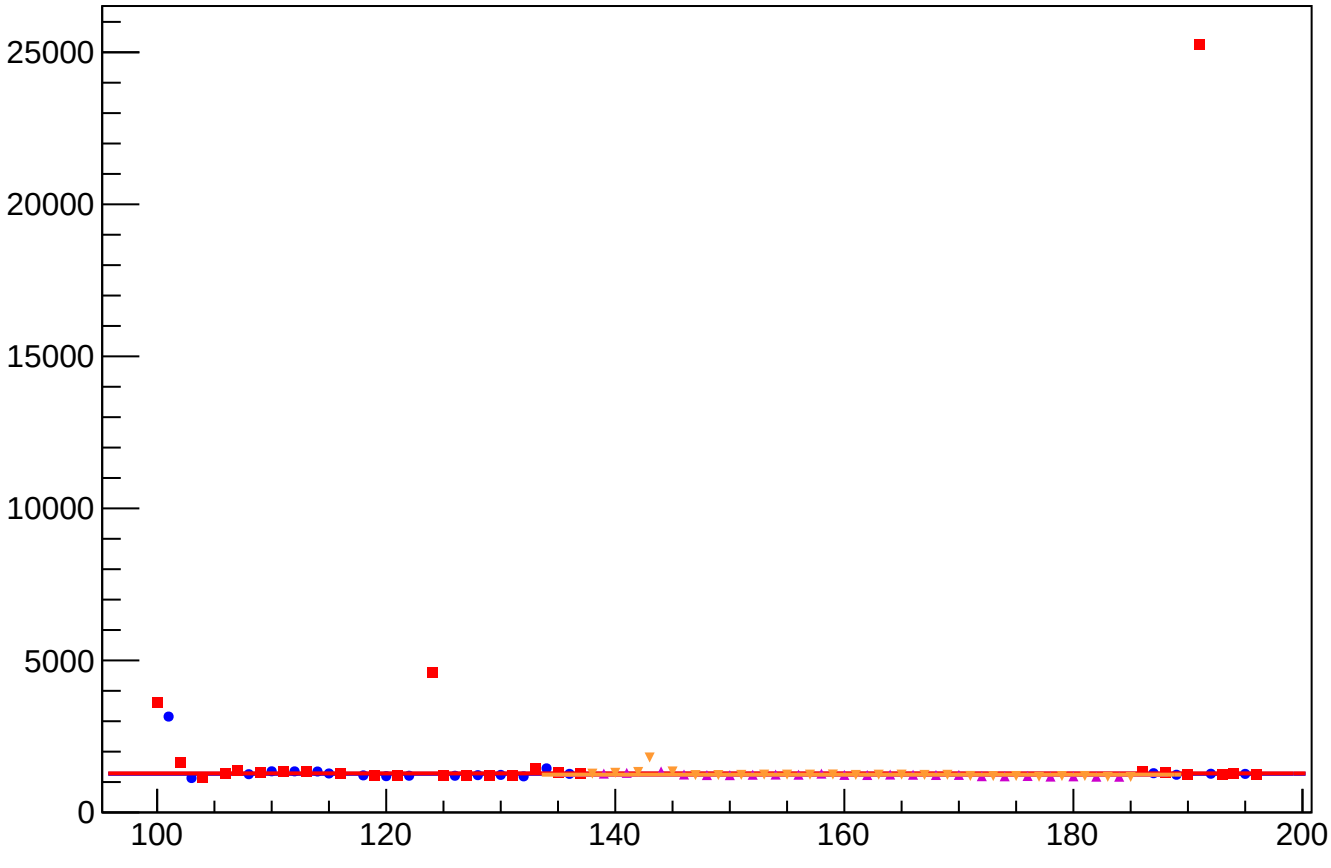
Left: -157.773+/-201.950 $\chi^2$/NDF: 38.7/47

Right: -159.600+/-279.902 $\chi^2$/NDF: 45.5/45

In: 19.927+/-236.107 $\chi^2$/NDF:34.9/42

Out: -323.754+/-227.360 $\chi^2$/NDF:48.2/50

All: -158.398+/-163.773 $\chi^2$/NDF: 84.2/93




Right In: 1270.810+/-0.291 $\chi^2$/NDF: 520106.5/19

Left Out: 1242.825+/-0.200 $\chi^2$/NDF:203299.1/24

Right Out: 1285.278+/-0.270 $\chi^2$/NDF: 474925.1/25

Left In: 1233.752+/-0.204 $\chi^2$/NDF:39281.7/22

Left: 1238.371+/-0.143 $\chi^2$/NDF: 243589.6/47

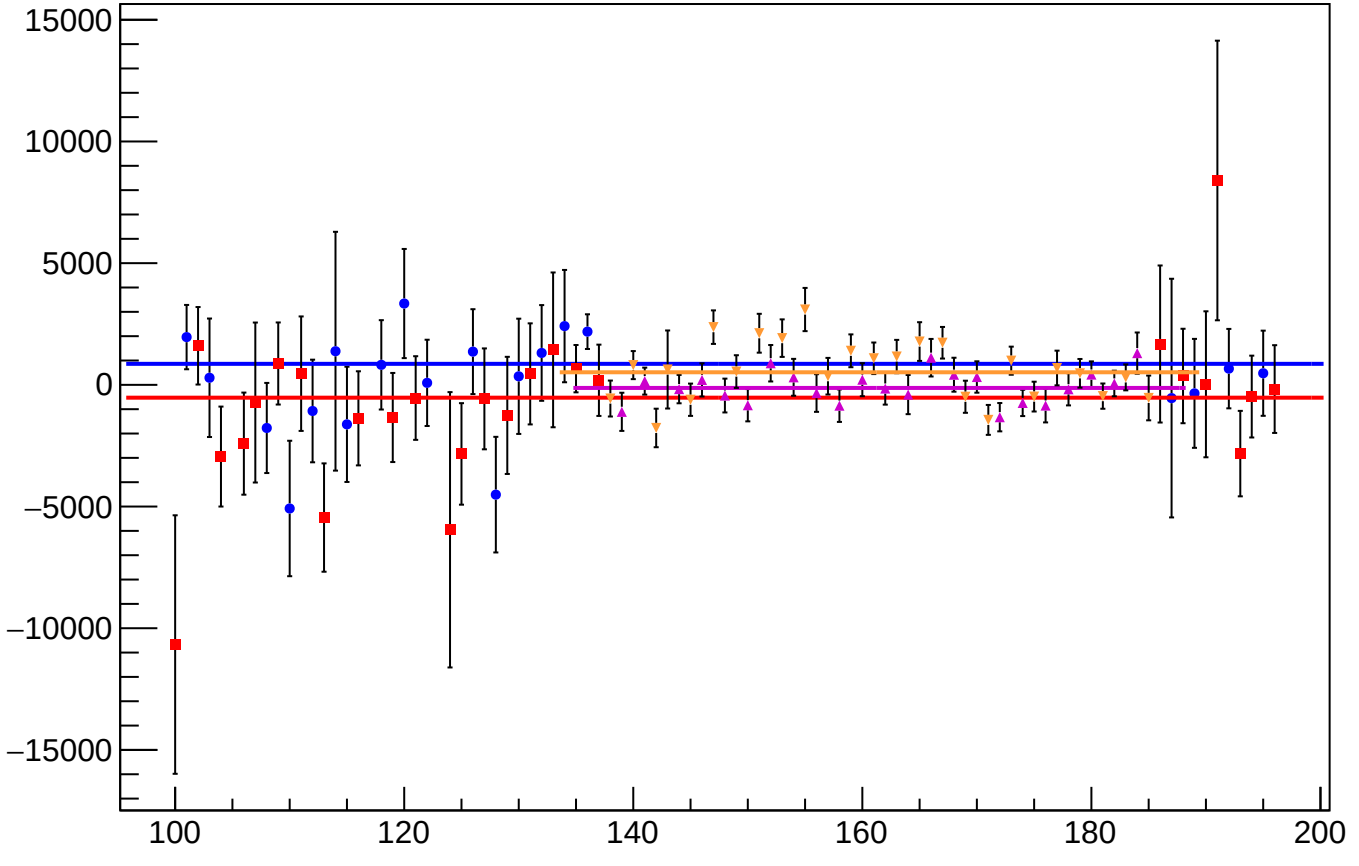
Right: 1278.590+/-0.198 $\chi^2$/NDF: 996359.9/45

In: 1245.941+/-0.167 $\chi^2$/NDF:570263.1/42

Out: 1257.888+/-0.161 $\chi^2$/NDF:694186.8/50

All: 1252.140+/-0.116 $\chi^2$/NDF: 1267106.8/93

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 863.441+/-393.363 $\chi^2$/NDF: 20.3/19

Left Out: 516.811+/-135.747 $\chi^2$/NDF:67.0/24

Right Out: -526.910+/-388.175 $\chi^2$/NDF: 23.3/25

Left In: -126.549+/-137.266 $\chi^2$/NDF:21.6/22

Left: 198.710+/-96.520 $\chi^2$/NDF: 99.7/47

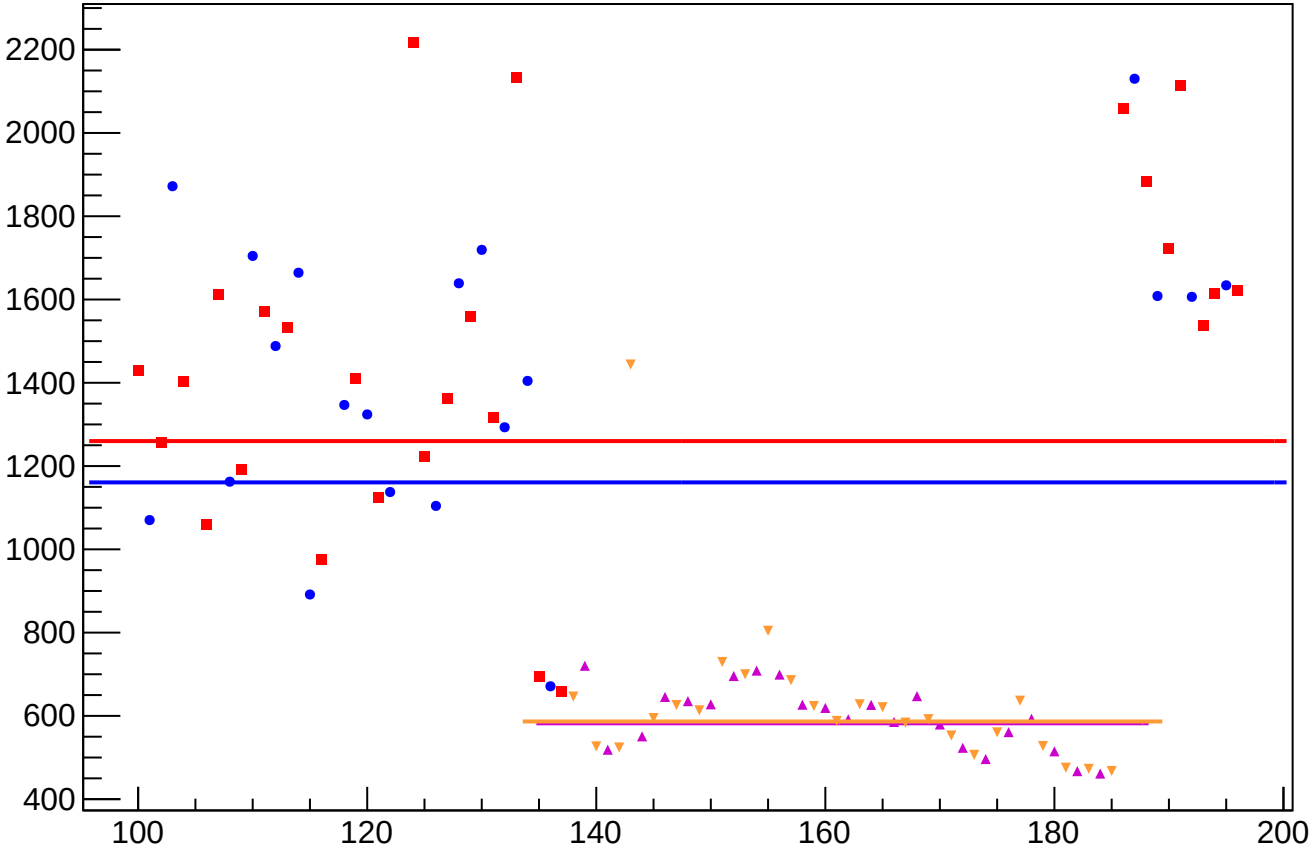
Right: 159.038+/-276.297 $\chi^2$/NDF: 49.9/45

In: -19.085+/-129.602 $\chi^2$/NDF:47.5/42

Out: 403.079+/-128.138 $\chi^2$/NDF:96.7/50

All: 194.395+/-91.120 $\chi^2$/NDF: 149.6/93

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1160.778+/-0.278 $\chi^2$/NDF: 2006451.1/19

Left Out: 586.562+/-0.096 $\chi^2$/NDF:1202822.0/24

Right Out: 1260.008+/-0.274 $\chi^2$/NDF: 2091705.9/25

Left In: 582.189+/-0.097 $\chi^2$/NDF:559258.0/22

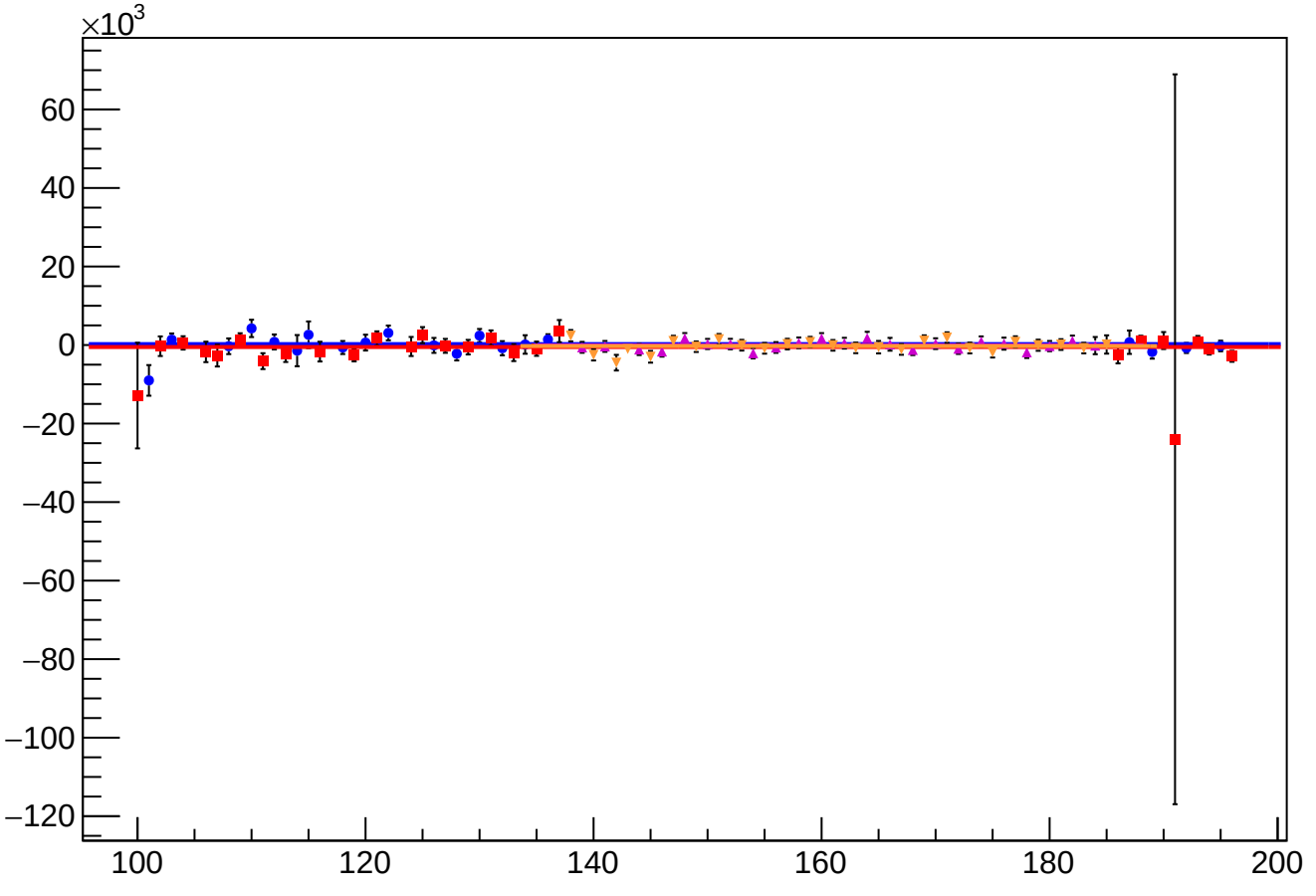
Left: 584.400+/-0.068 $\chi^2$/NDF: 1763106.4/47

Right: 1211.051+/-0.195 $\chi^2$/NDF: 4162637.2/45

In: 644.995+/-0.092 $\chi^2$/NDF:6422988.5/42

Out: 659.946+/-0.091 $\chi^2$/NDF:8658333.2/50

All: 652.555+/-0.064 $\chi^2$/NDF: 15094780.3/93




Right In: 239.727+/-413.708 $\chi^2$/NDF: 19.7/19

Left Out: -250.849+/-279.923 $\chi^2$/NDF:24.0/24

Right Out: -504.105+/-379.649 $\chi^2$/NDF: 23.5/25

Left In: -74.881+/-291.458 $\chi^2$/NDF:14.0/22

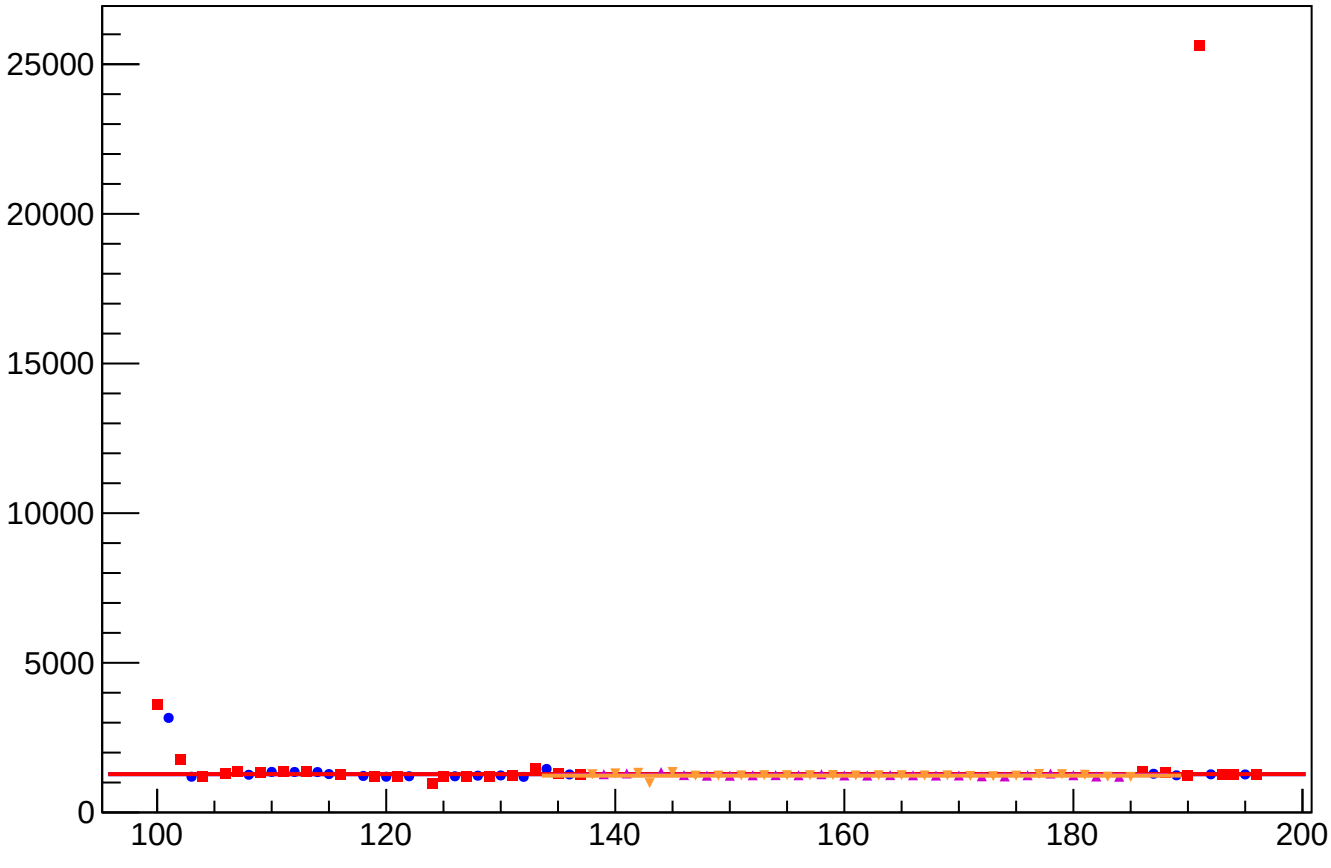
Left: -166.416+/-201.890 $\chi^2$/NDF: 38.2/47

Right: -164.063+/-279.720 $\chi^2$/NDF: 45.0/45

In: 29.473+/-238.267 $\chi^2$/NDF:34.1/42

Out: -340.041+/-225.302 $\chi^2$/NDF:47.8/50

All: -165.610+/-163.704 $\chi^2$/NDF: 83.2/93




Right In: 1277.412+/-0.293 $\chi^2$/NDF: 508239.1/19

Left Out: 1229.986+/-0.198 $\chi^2$/NDF:141607.5/24

Right Out: 1281.098+/-0.268 $\chi^2$/NDF: 368618.3/25

Left In: 1247.785+/-0.206 $\chi^2$/NDF:27340.8/22

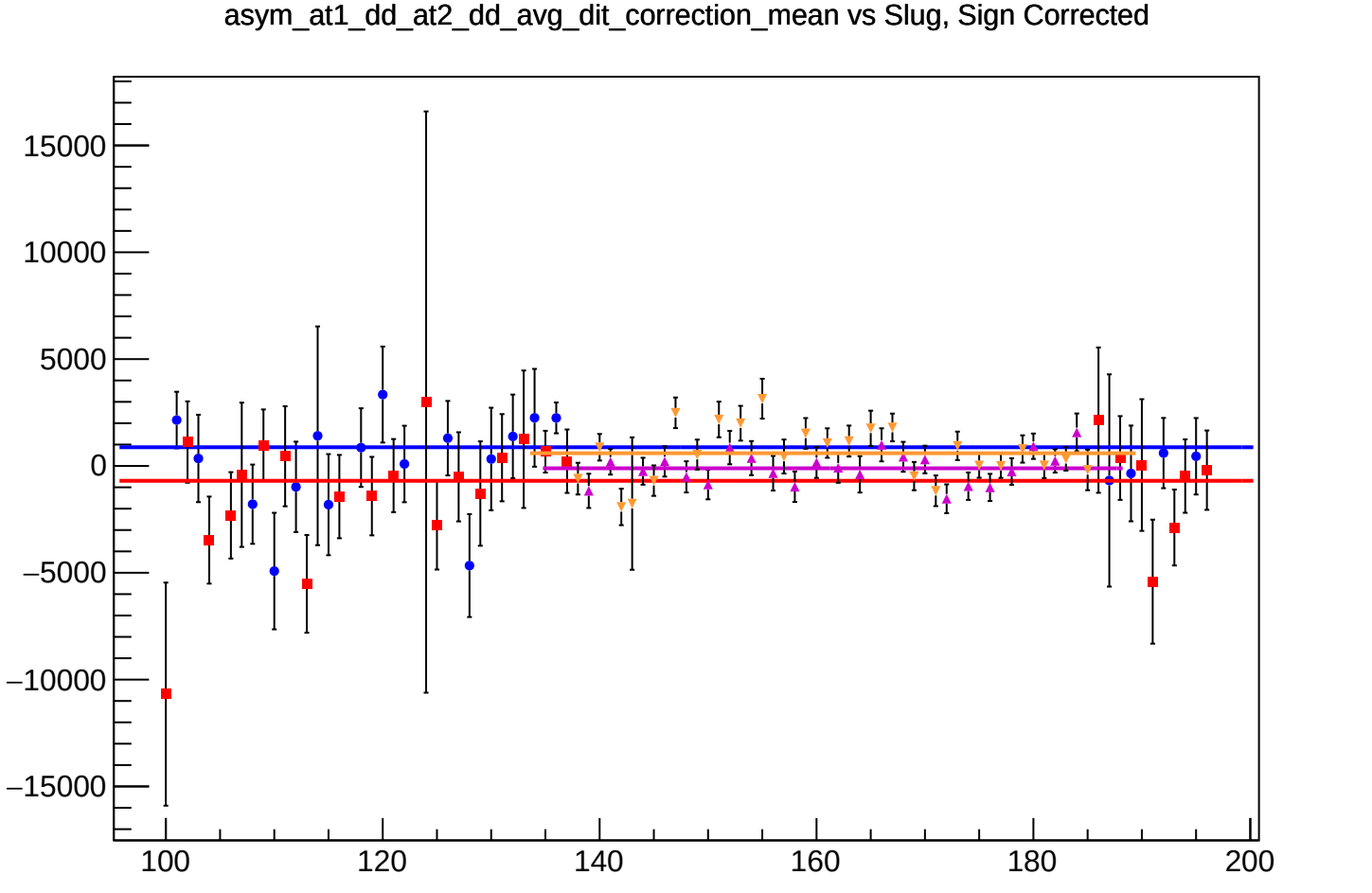
Left: 1238.526+/-0.143 $\chi^2$/NDF: 172828.2/47

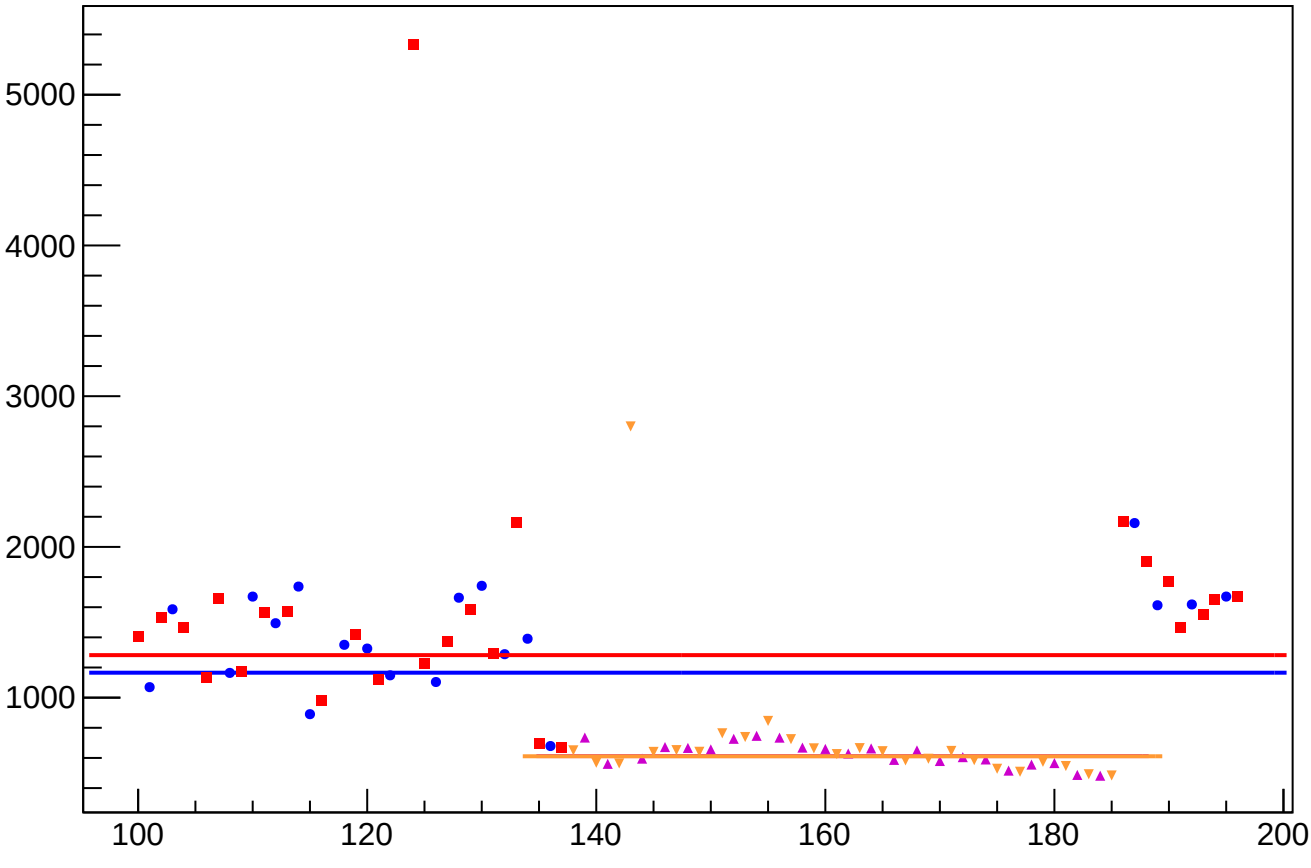
Right: 1279.413+/-0.198 $\chi^2$/NDF: 876943.6/45

In: 1257.612+/-0.168 $\chi^2$/NDF:542434.4/42

Out: 1247.987+/-0.159 $\chi^2$/NDF:533709.3/50

All: 1252.530+/-0.116 $\chi^2$/NDF: 1077866.8/93


asym_at1_dd_at2_dd_avg_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: 874.661+/-393.668 χ²/NDF: 21.0/19
Left Out: 595.000+/-142.130 χ²/NDF:57.3/24
Right Out: -695.390+/-392.090 χ²/NDF: 22.5/25
Left In: -110.252+/-144.232 χ²/NDF:25.7/22
Left: 247.550+/-101.236 χ²/NDF: 95.2/47
Right: 86.482+/-277.806 χ²/NDF: 51.4/45
In: 6.311+/-135.429 χ²/NDF:52.2/42
Out: 445.133+/-133.622 χ²/NDF:89.4/50
All: 228.668+/-95.117 χ²/NDF: 146.9/93




Right In: 1165.533+/-0.278 $\chi^2$/NDF: 1905552.2/19

Left Out: 611.087+/-0.101 $\chi^2$/NDF:1619322.3/24

Right Out: 1282.071+/-0.277 $\chi^2$/NDF: 2271097.3/25

Left In: 612.399+/-0.102 $\chi^2$/NDF:508595.4/22

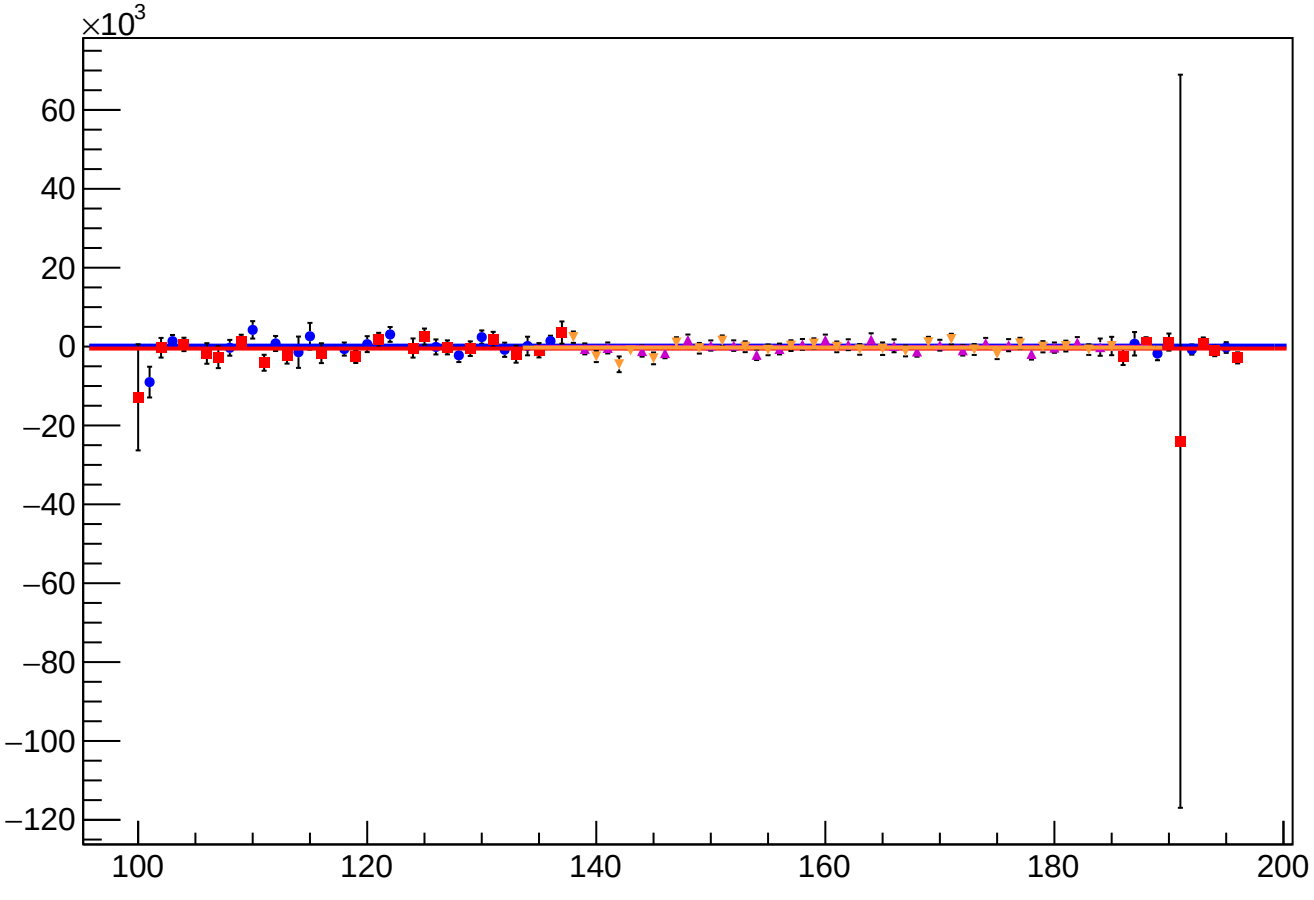
Left: 611.733+/-0.072 $\chi^2$/NDF: 2128001.7/47

Right: 1224.036+/-0.196 $\chi^2$/NDF: 4264636.1/45

In: 677.861+/-0.096 $\chi^2$/NDF:5895331.8/42

Out: 689.015+/-0.094 $\chi^2$/NDF:9067281.5/50

All: 683.513+/-0.067 $\chi^2$/NDF: 14969487.9/93




Right In: 239.729+/-413.708 $\chi^2$/NDF: 19.7/19

Left Out: -250.851+/-279.923 $\chi^2$/NDF:24.0/24

Right Out: -504.105+/-379.649 $\chi^2$/NDF: 23.5/25

Left In: -74.881+/-291.458 $\chi^2$/NDF:14.0/22

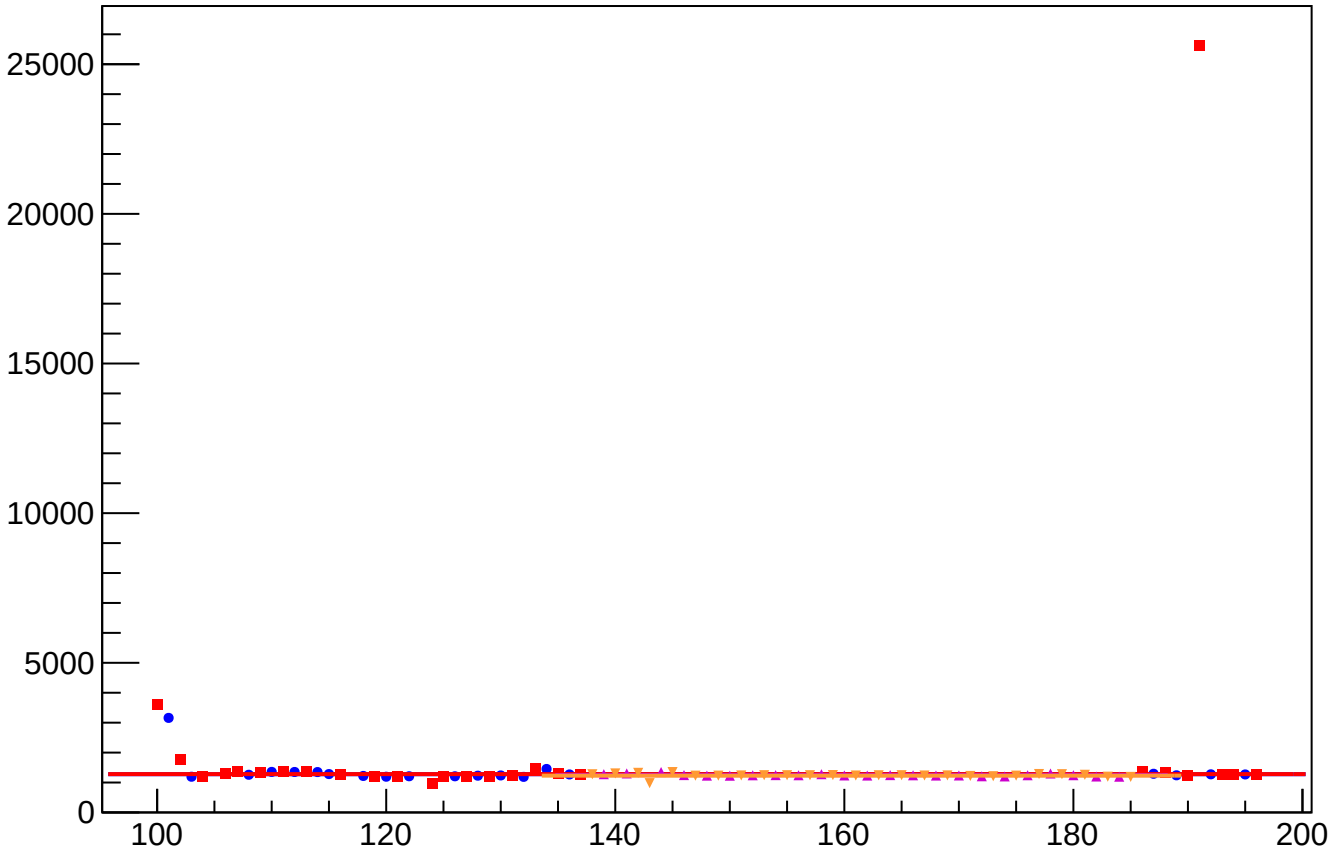
Left: -166.417+/-201.890 $\chi^2$/NDF: 38.2/47

Right: -164.062+/-279.720 $\chi^2$/NDF: 45.0/45

In: 29.473+/-238.267 $\chi^2$/NDF:34.1/42

Out: -340.042+/-225.302 $\chi^2$/NDF:47.8/50

All: -165.610+/-163.704 $\chi^2$/NDF: 83.2/93




Right In: 1277.411+/-0.293 $\chi^2$/NDF: 508239.3/19

Left Out: 1229.986+/-0.198 $\chi^2$/NDF:141606.6/24

Right Out: 1281.098+/-0.268 $\chi^2$/NDF: 368618.2/25

Left In: 1247.785+/-0.206 $\chi^2$/NDF:27340.7/22

Left: 1238.526+/-0.143 $\chi^2$/NDF: 172827.1/47

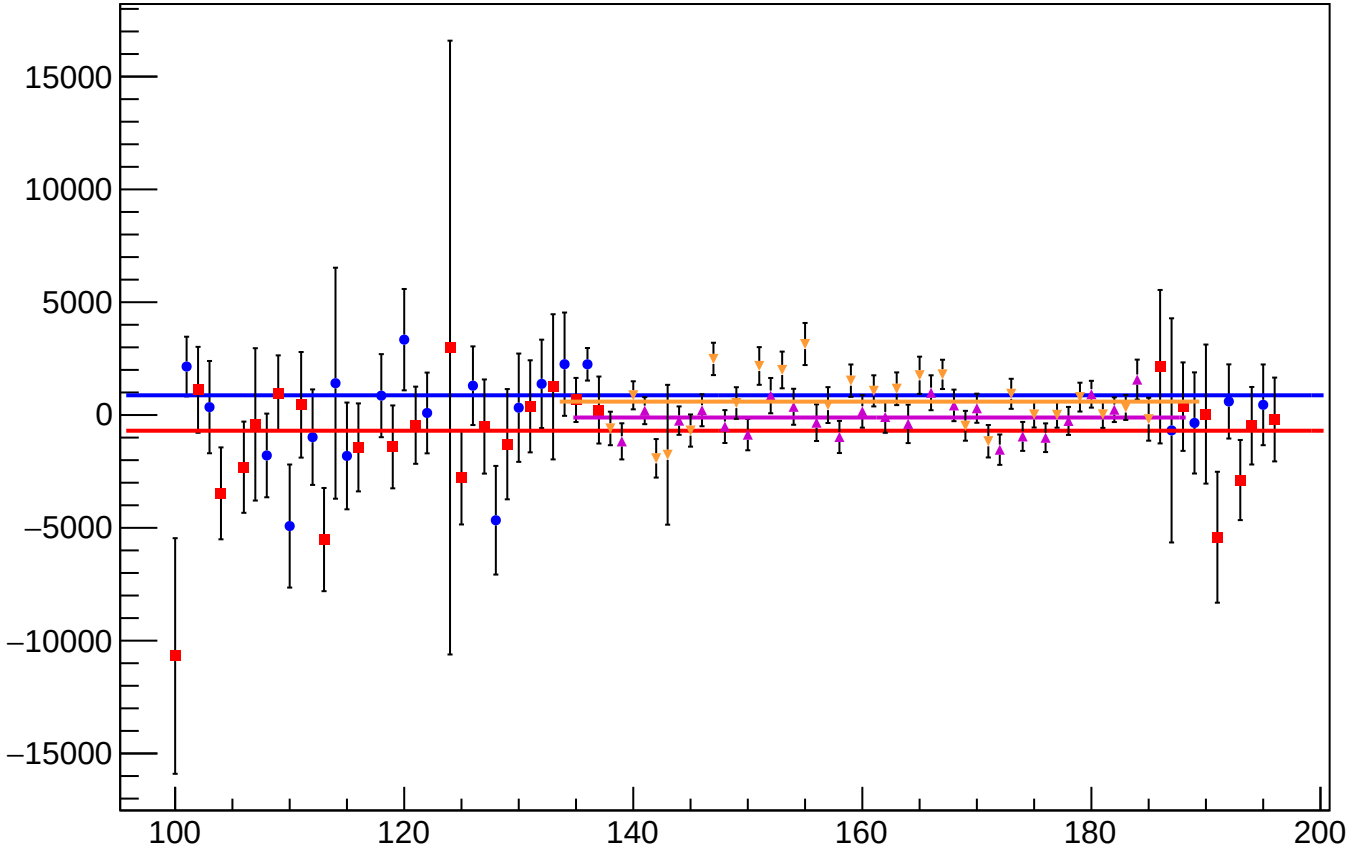
Right: 1279.413+/-0.198 $\chi^2$/NDF: 876943.7/45

In: 1257.612+/-0.168 $\chi^2$/NDF:542434.5/42

Out: 1247.987+/-0.159 $\chi^2$/NDF:533708.3/50

All: 1252.530+/-0.116 $\chi^2$/NDF: 1077865.9/93

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 874.656+/-393.670 $\chi^2$/NDF: 21.0/19

Left Out: 595.000+/-142.130 $\chi^2$/NDF:57.3/24

Right Out: -695.400+/-392.091 $\chi^2$/NDF: 22.5/25

Left In: -110.251+/-144.232 $\chi^2$/NDF:25.7/22

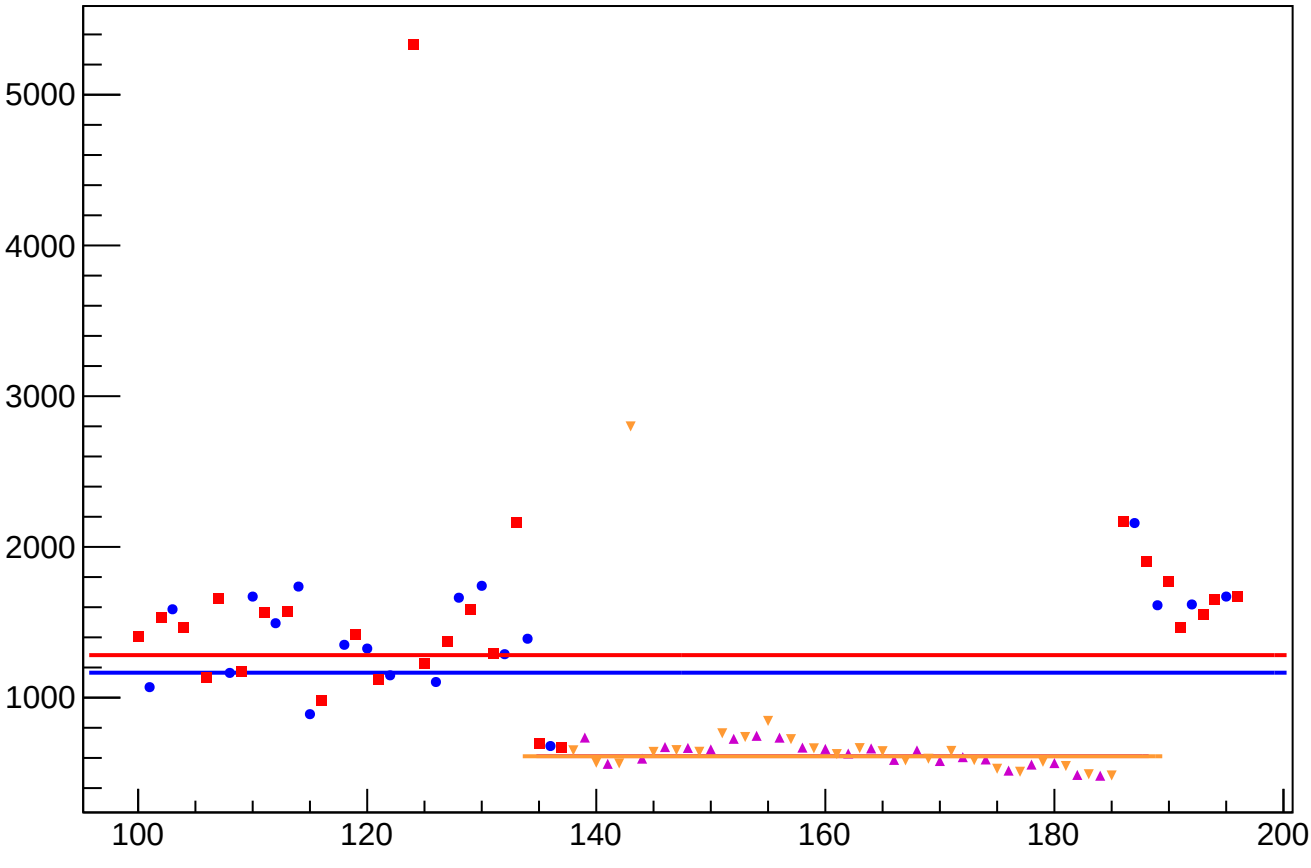
Left: 247.550+/-101.236 $\chi^2$/NDF: 95.2/47

Right: 86.474+/-277.807 $\chi^2$/NDF: 51.4/45

In: 6.310+/-135.429 $\chi^2$/NDF:52.2/42

Out: 445.132+/-133.622 $\chi^2$/NDF:89.4/50

All: 228.667+/-95.117 $\chi^2$/NDF: 146.9/93




Right In: 1165.539+/-0.278 $\chi^2$/NDF: 1905480.8/19

Left Out: 611.086+/-0.101 $\chi^2$/NDF:1619319.5/24

Right Out: 1282.077+/-0.277 $\chi^2$/NDF: 2271024.5/25

Left In: 612.398+/-0.102 $\chi^2$/NDF:508597.7/22

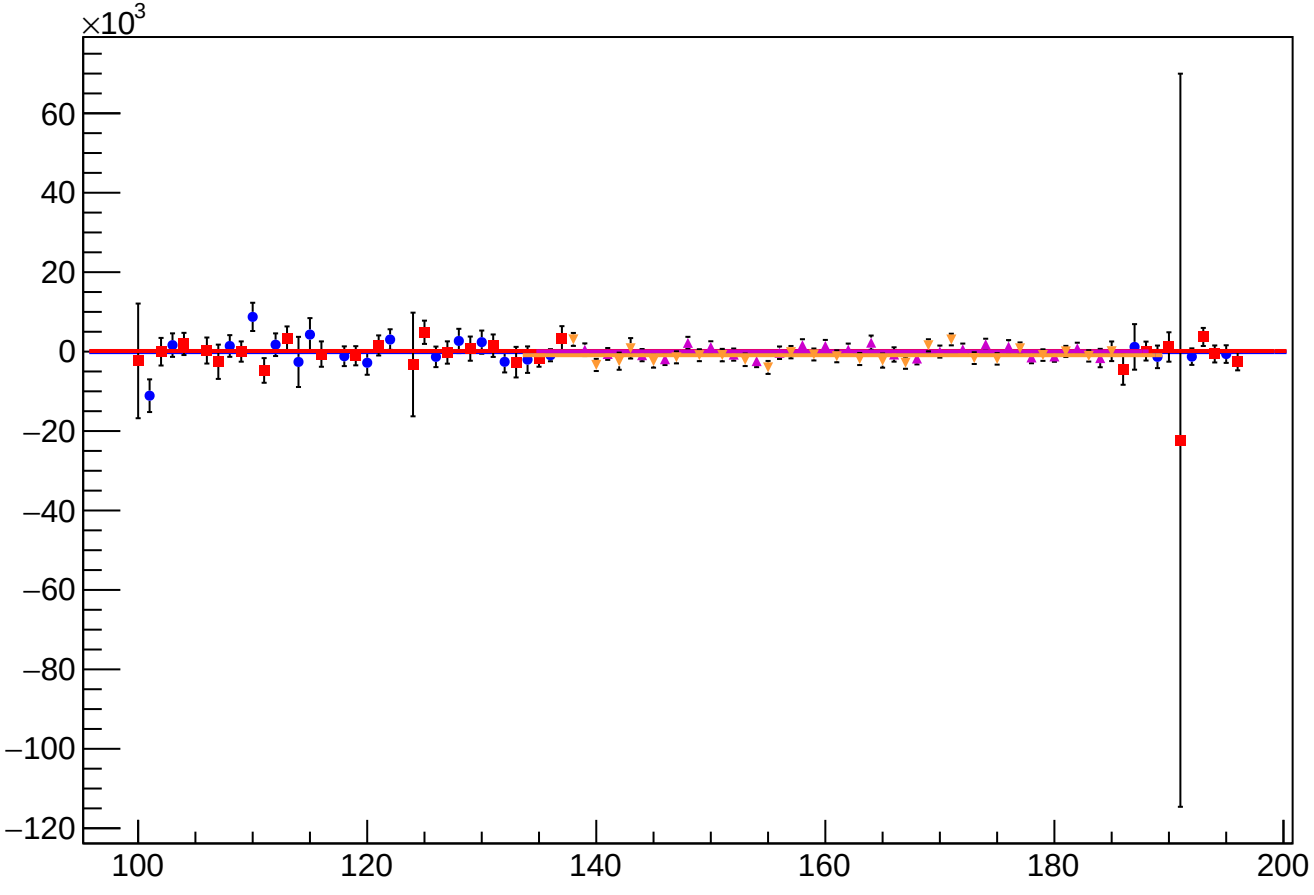
Left: 611.733+/-0.072 $\chi^2$/NDF: 2128001.1/47

Right: 1224.042+/-0.196 $\chi^2$/NDF: 4264491.7/45

In: 677.861+/-0.096 $\chi^2$/NDF:5895327.7/42

Out: 689.016+/-0.094 $\chi^2$/NDF:9067276.7/50

All: 683.513+/-0.067 $\chi^2$/NDF: 14969479.6/93




Right In: -128.519+/-616.093 $\chi^2$/NDF: 22.0/19

Left Out: -899.894+/-316.449 $\chi^2$/NDF:29.8/24

Right Out: 157.636+/-581.141 $\chi^2$/NDF: 15.7/25

Left In: 48.178+/-320.929 $\chi^2$/NDF:17.9/22

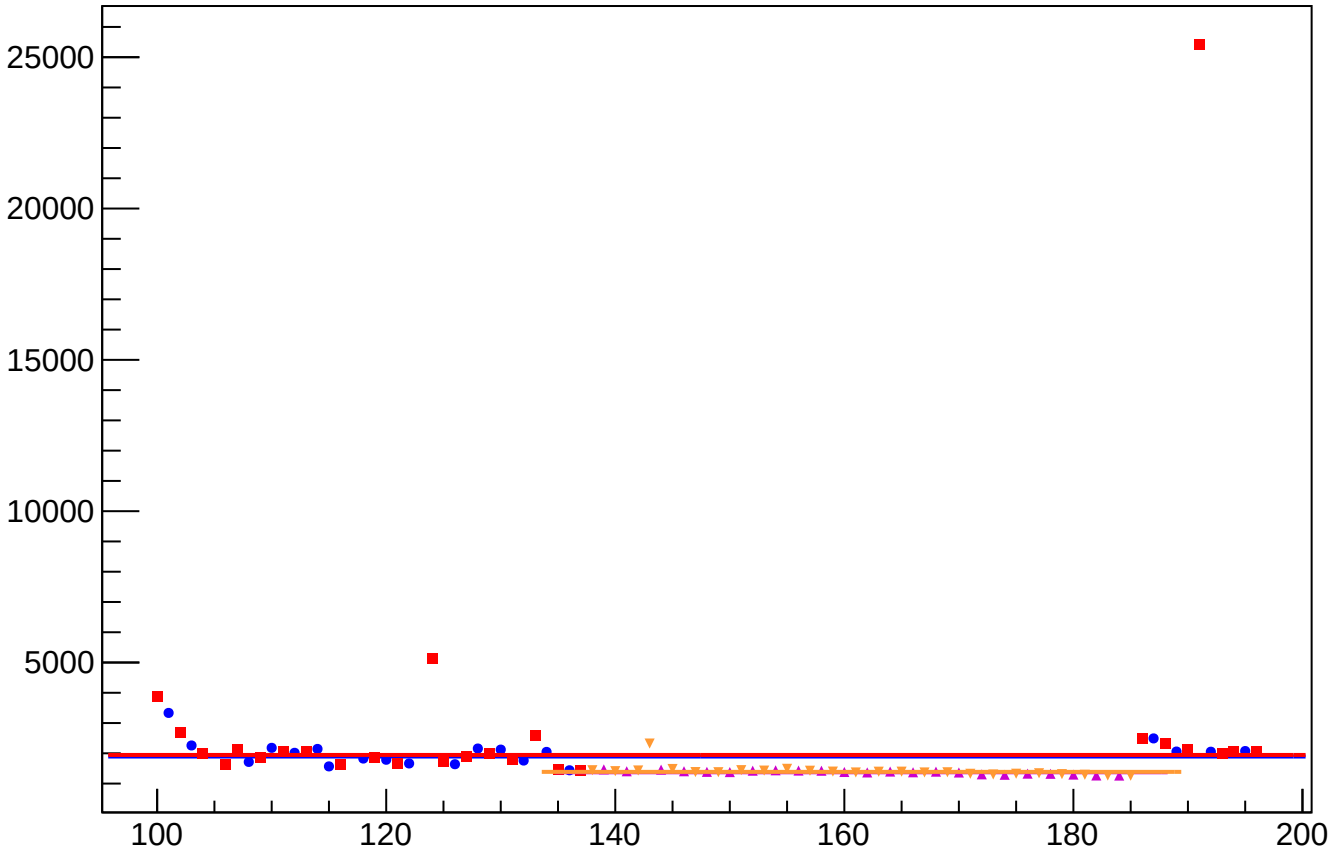
Left: -432.522+/-225.330 $\chi^2$/NDF: 52.1/47

Right: 22.905+/-422.745 $\chi^2$/NDF: 37.8/45

In: 10.465+/-284.627 $\chi^2$/NDF:39.9/42

Out: -658.037+/-277.917 $\chi^2$/NDF:48.1/50

All: -331.759+/-198.847 $\chi^2$/NDF: 90.8/93




Right In: 1893.774+/-0.436 $\chi^2$/NDF: 622346.5/19

Left Out: 1386.845+/-0.224 $\chi^2$/NDF:339794.5/24

Right Out: 1945.800+/-0.411 $\chi^2$/NDF: 788750.2/25

Left In: 1373.217+/-0.227 $\chi^2$/NDF:64467.6/22

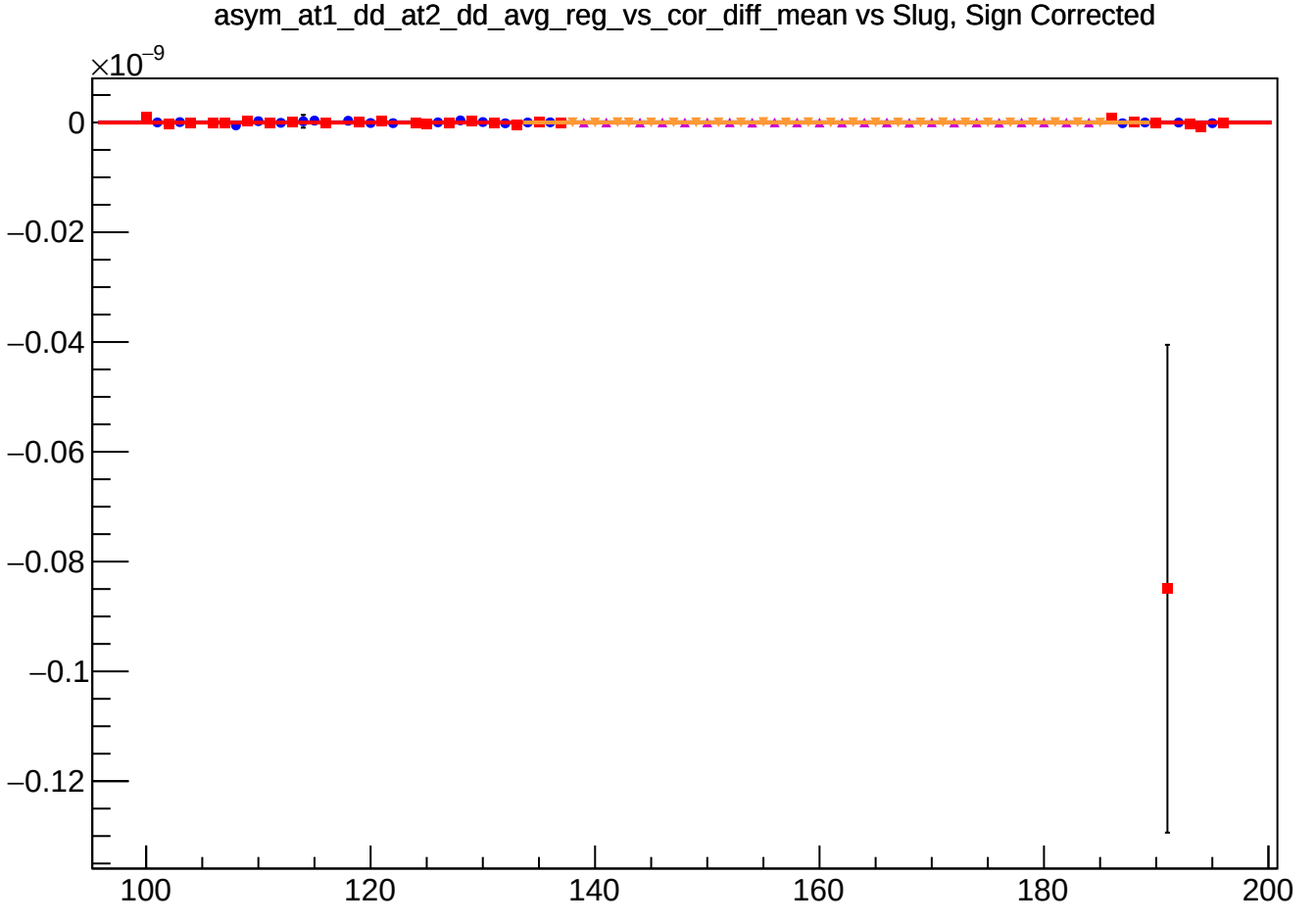
Left: 1380.126+/-0.159 $\chi^2$/NDF: 406090.7/47

Right: 1921.304+/-0.299 $\chi^2$/NDF: 1418643.7/45

In: 1484.321+/-0.201 $\chi^2$/NDF:1809896.1/42

Out: 1514.680+/-0.197 $\chi^2$/NDF:2555627.2/50

All: 1499.862+/-0.141 $\chi^2$/NDF: 4377171.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 39.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.5/22

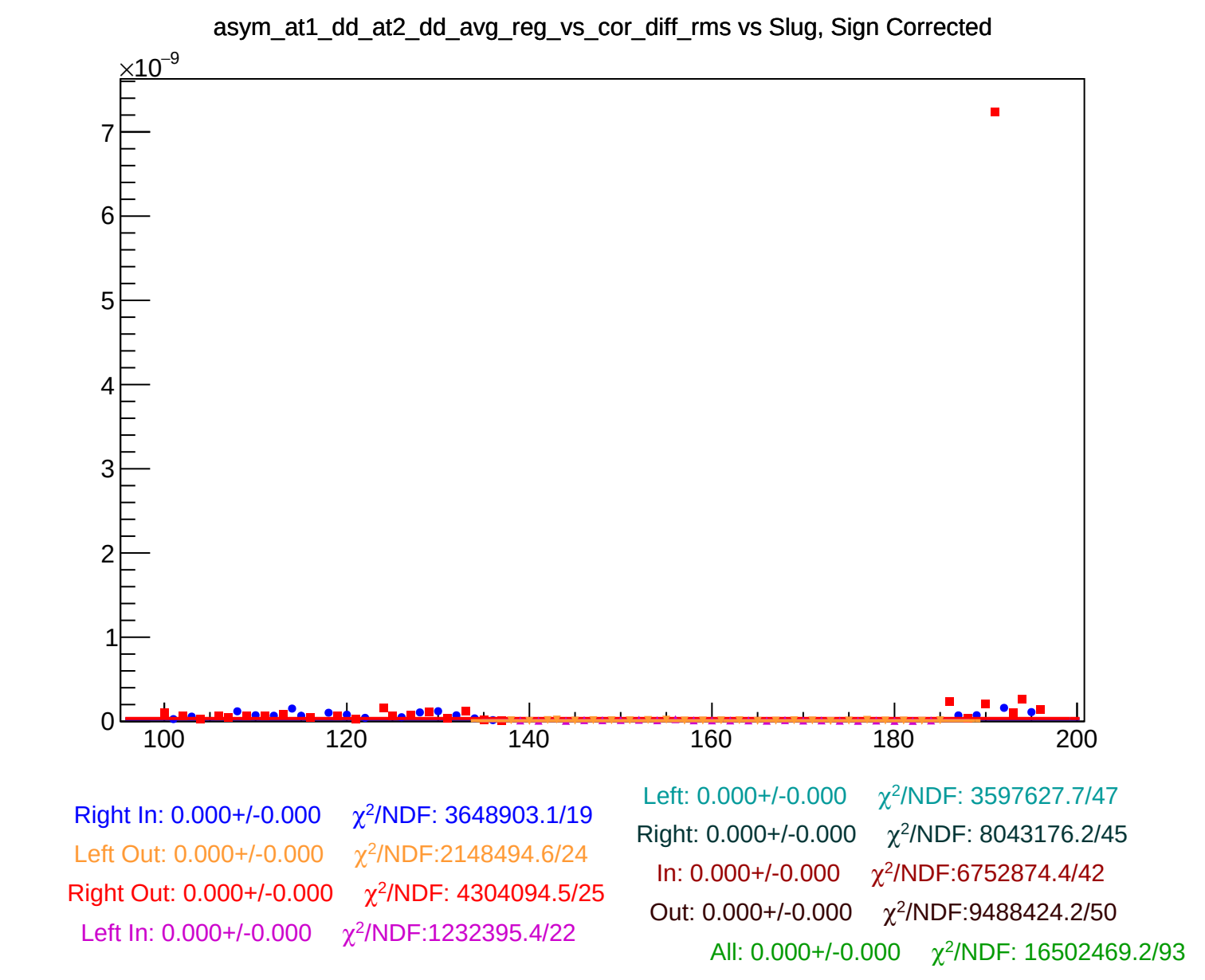
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.4/47

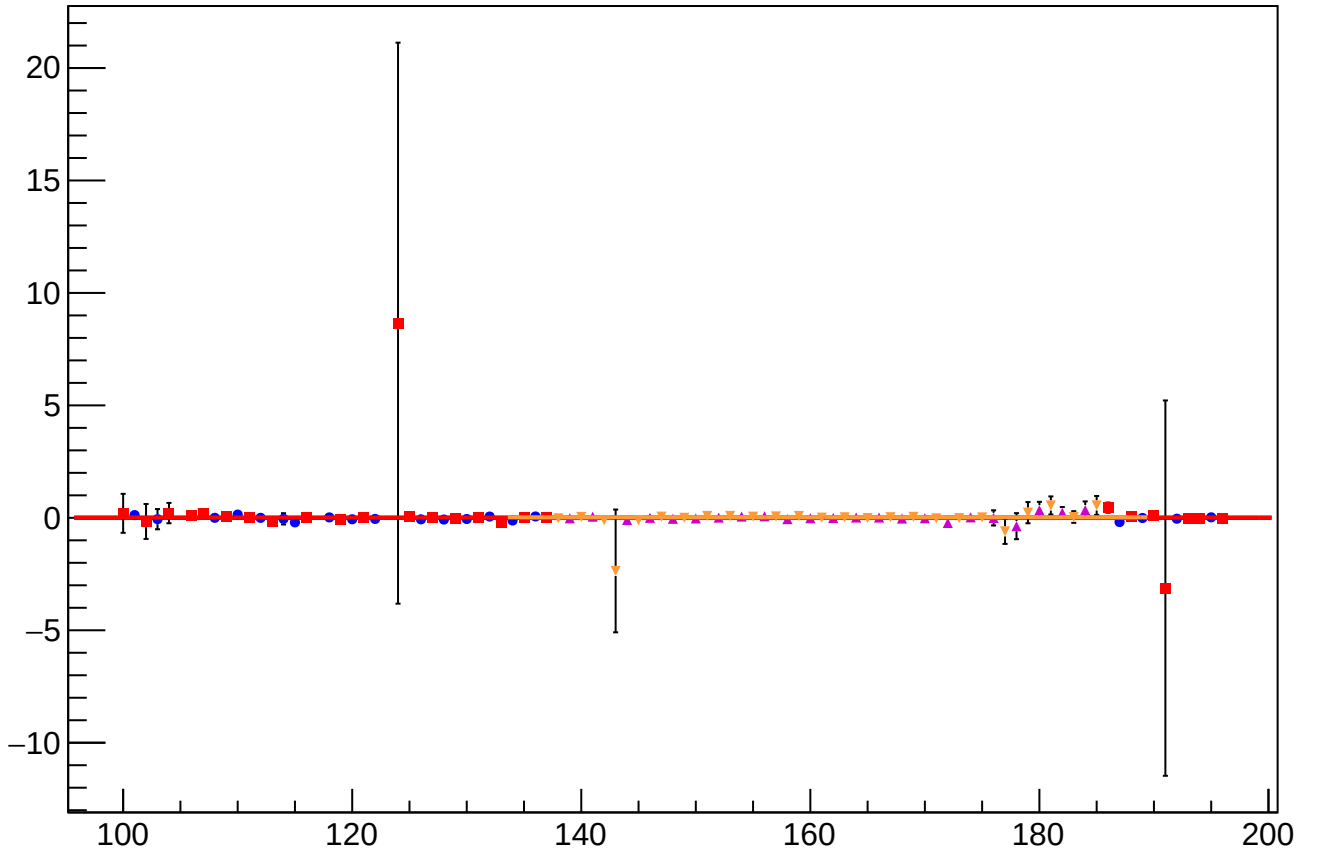
Right: -0.000+/-0.000 $\chi^2$/NDF: 59.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:31.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:66.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 97.6/93


asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
7
6
5
4
3
2
1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3648903.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2148494.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 4304094.5/25
Left In: 0.000+/-0.000 χ²/NDF:1232395.4/22
Left: 0.000+/-0.000 χ²/NDF: 3597627.7/47
Right: 0.000+/-0.000 χ²/NDF: 8043176.2/45
In: 0.000+/-0.000 χ²/NDF:6752874.4/42
Out: 0.000+/-0.000 χ²/NDF:9488424.2/50
All: 0.000+/-0.000 χ²/NDF: 16502469.2/93




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

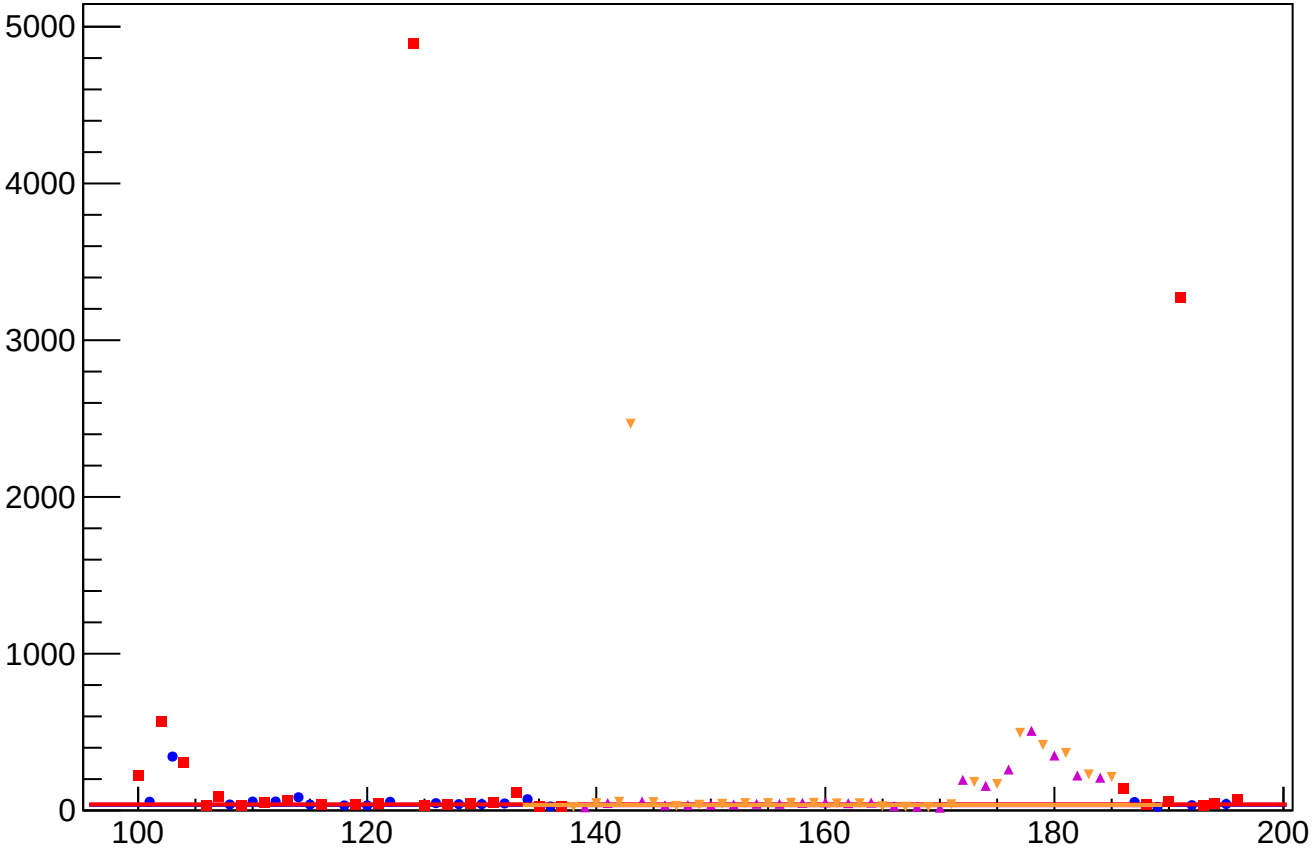
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.858+/-0.009 $\chi^2$/NDF: 2281000.2/19

Left Out: 34.624+/-0.007 $\chi^2$/NDF:11402451.4/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4394200.8/25

Left In: 33.592+/-0.007 $\chi^2$/NDF:10067466.4/22

Left: 34.094+/-0.005 $\chi^2$/NDF: 21480396.5/47

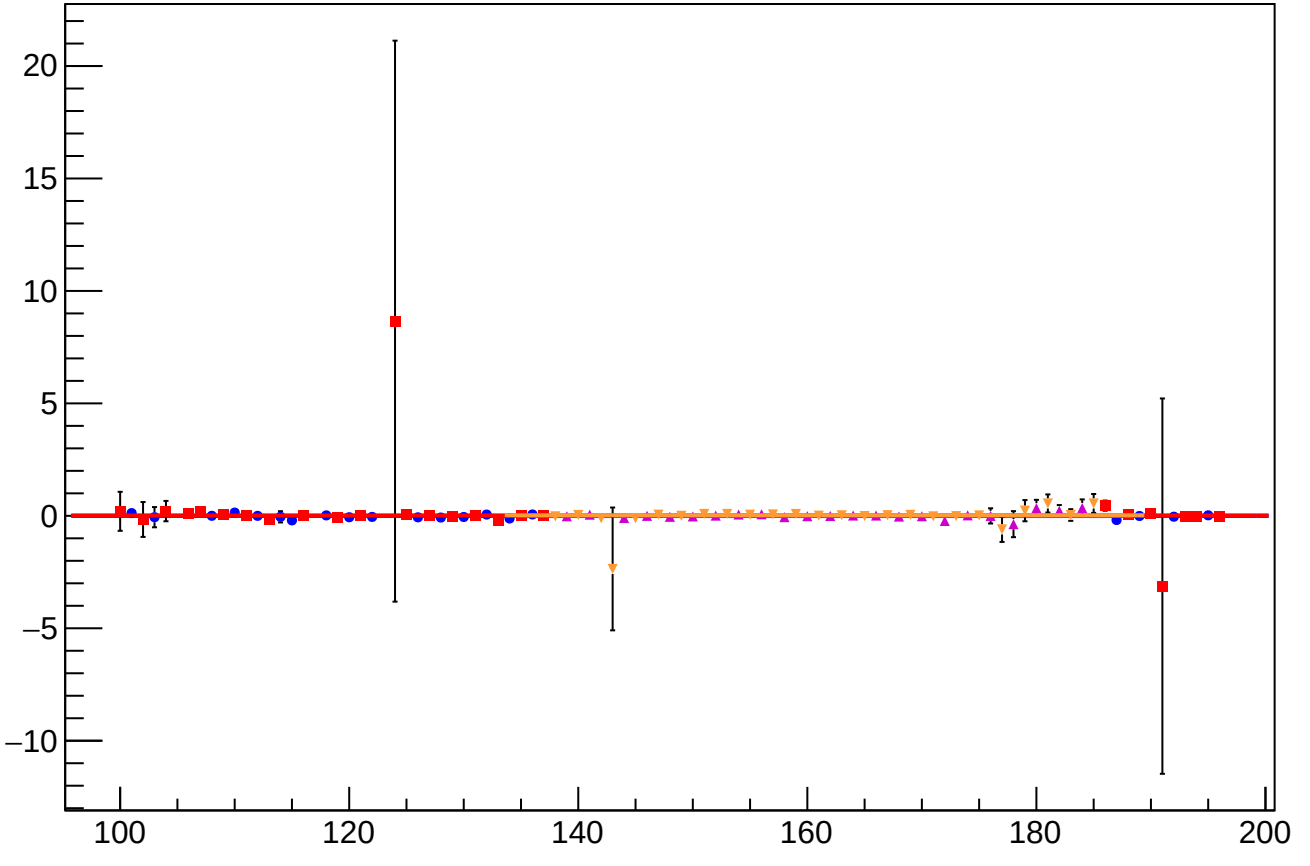
Right: 37.284+/-0.007 $\chi^2$/NDF: 6721726.2/45

In: 34.403+/-0.006 $\chi^2$/NDF:12385641.9/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915539.1/50

All: 35.244+/-0.004 $\chi^2$/NDF: 28346795.6/93

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

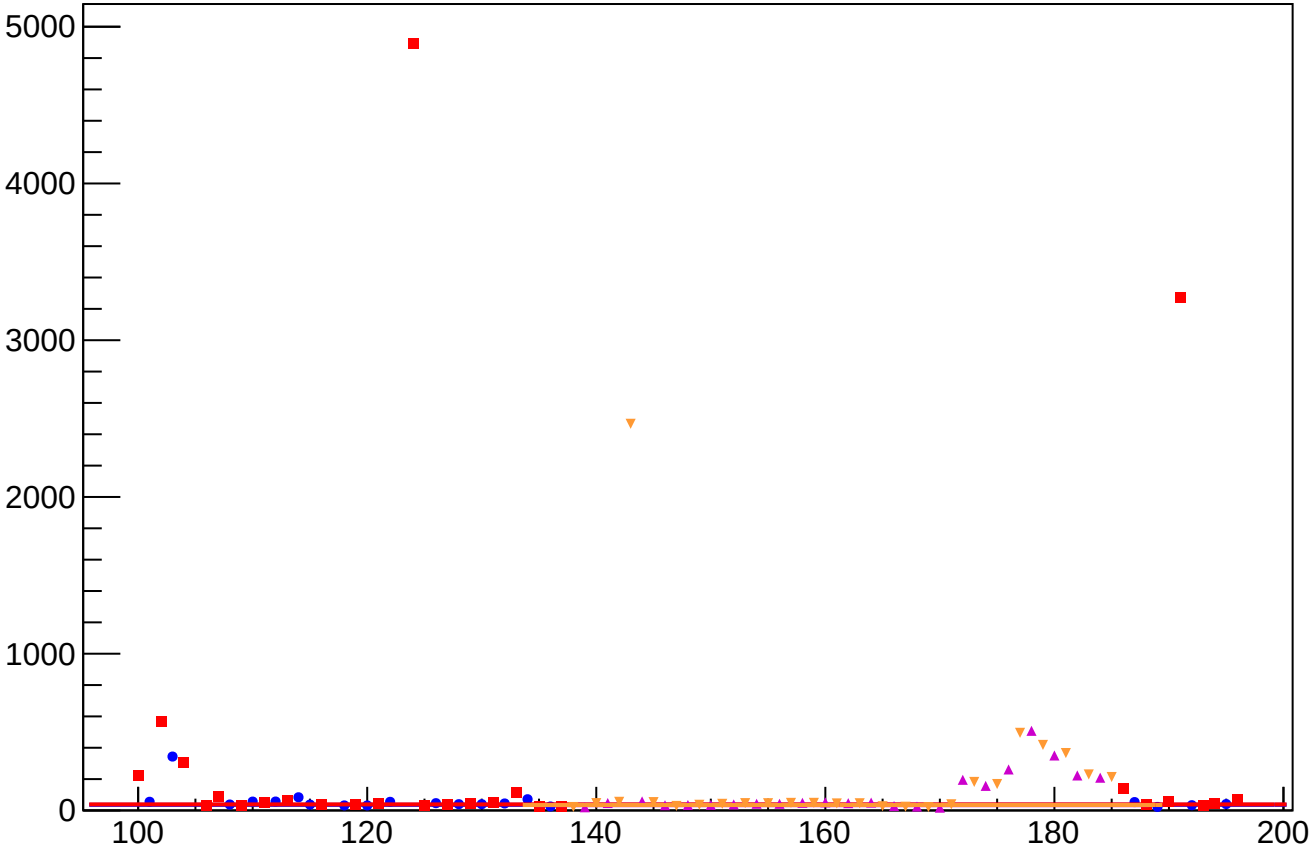
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.858+/-0.009 $\chi^2$/NDF: 2281000.2/19

Left Out: 34.624+/-0.007 $\chi^2$/NDF:11402451.4/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4394200.8/25

Left In: 33.592+/-0.007 $\chi^2$/NDF:10067466.4/22

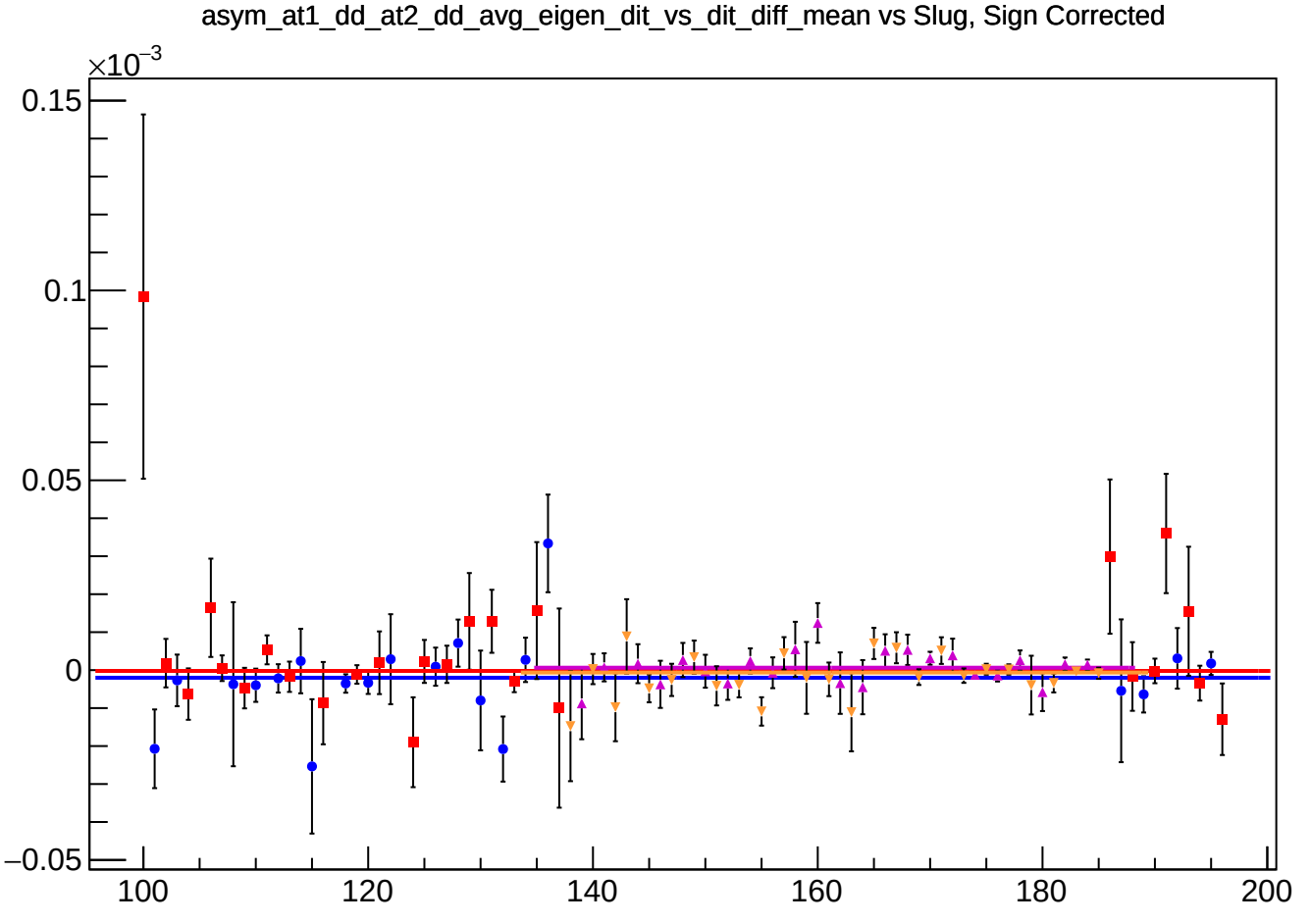
Left: 34.094+/-0.005 $\chi^2$/NDF: 21480396.5/47

Right: 37.284+/-0.007 $\chi^2$/NDF: 6721726.2/45

In: 34.403+/-0.006 $\chi^2$/NDF:12385641.9/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915539.1/50

All: 35.244+/-0.004 $\chi^2$/NDF: 28346795.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 24.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.9/22

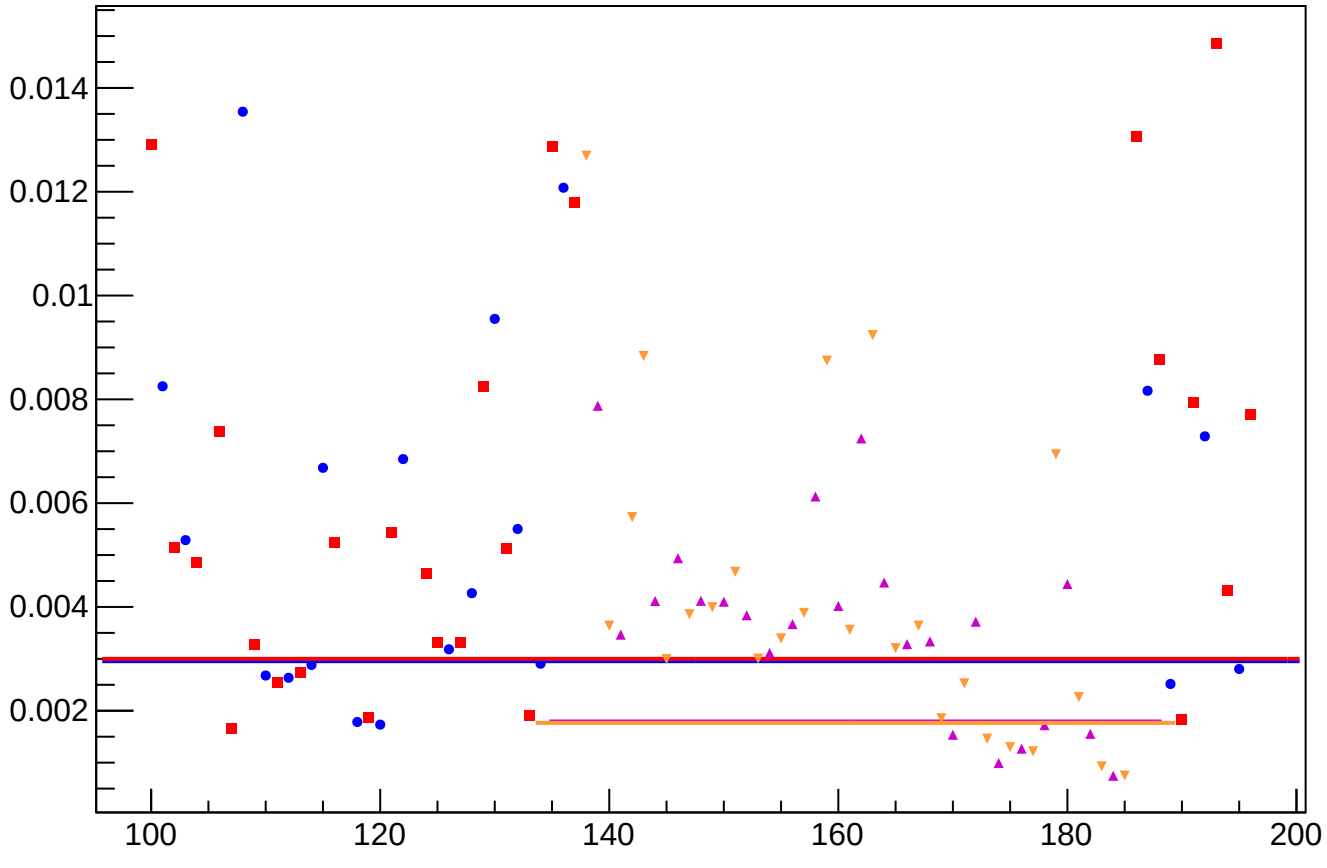
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 55.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:51.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:58.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 110.2/93




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4924393.0/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:12926339.2/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6784923.1/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:10766932.4/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 23695843.2/47

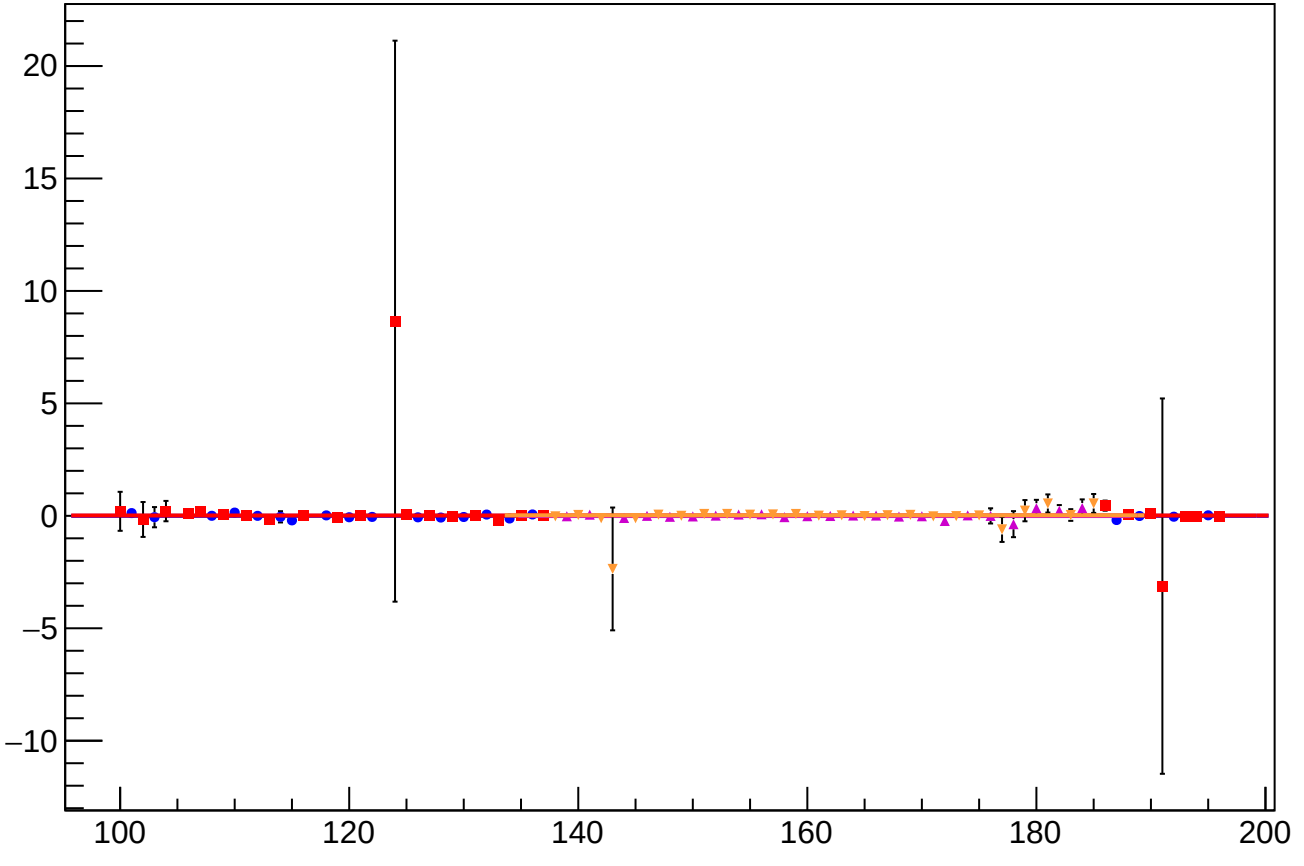
Right: 0.003+/-0.000 $\chi^2$/NDF: 11710979.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:17360619.0/42

Out: 0.002+/-0.000 $\chi^2$/NDF:21930953.3/50

All: 0.002+/-0.000 $\chi^2$/NDF: 39291637.8/93

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

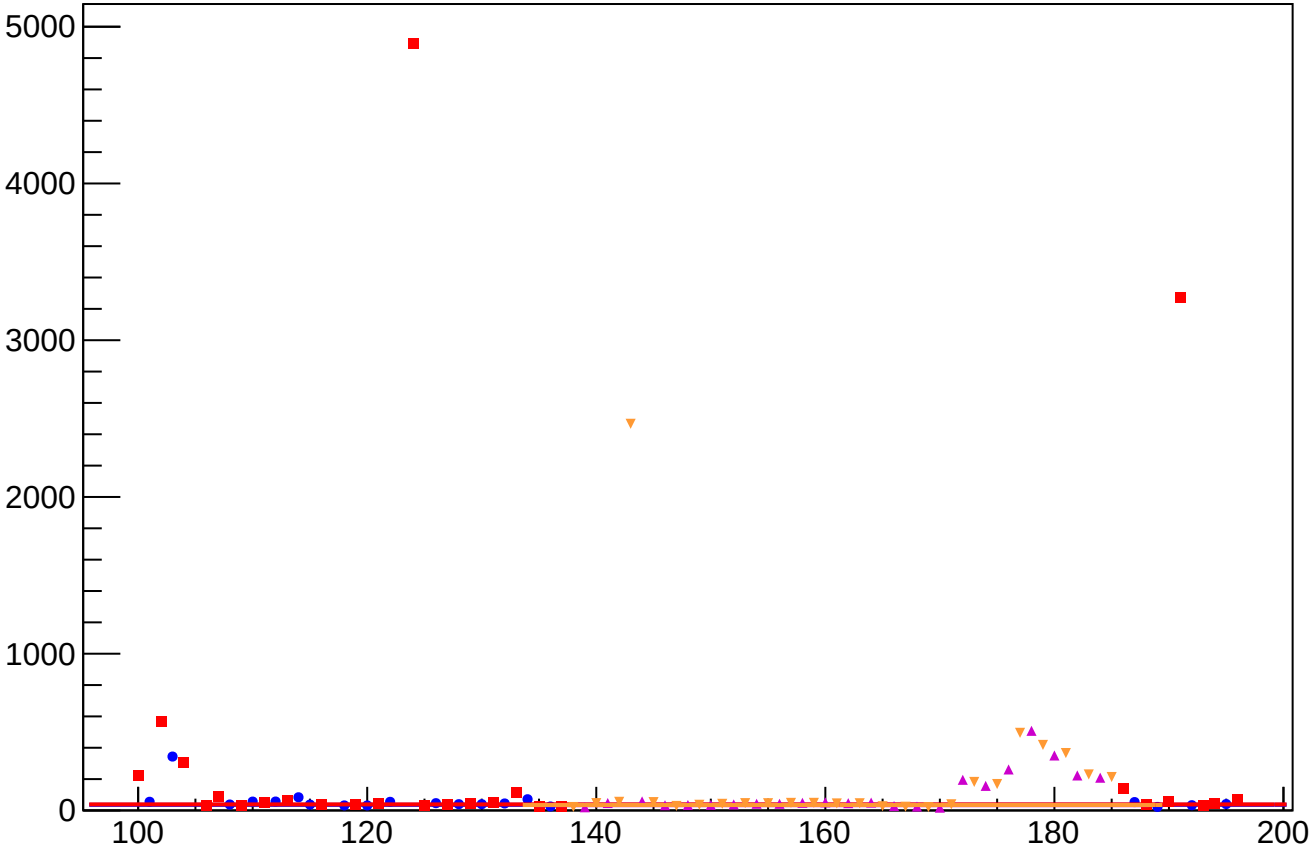
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.860+/-0.009 $\chi^2$/NDF: 2280349.8/19

Left Out: 34.623+/-0.007 $\chi^2$/NDF:11402566.2/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4393891.6/25

Left In: 33.595+/-0.007 $\chi^2$/NDF:10066196.6/22

Left: 34.095+/-0.005 $\chi^2$/NDF: 21479175.2/47

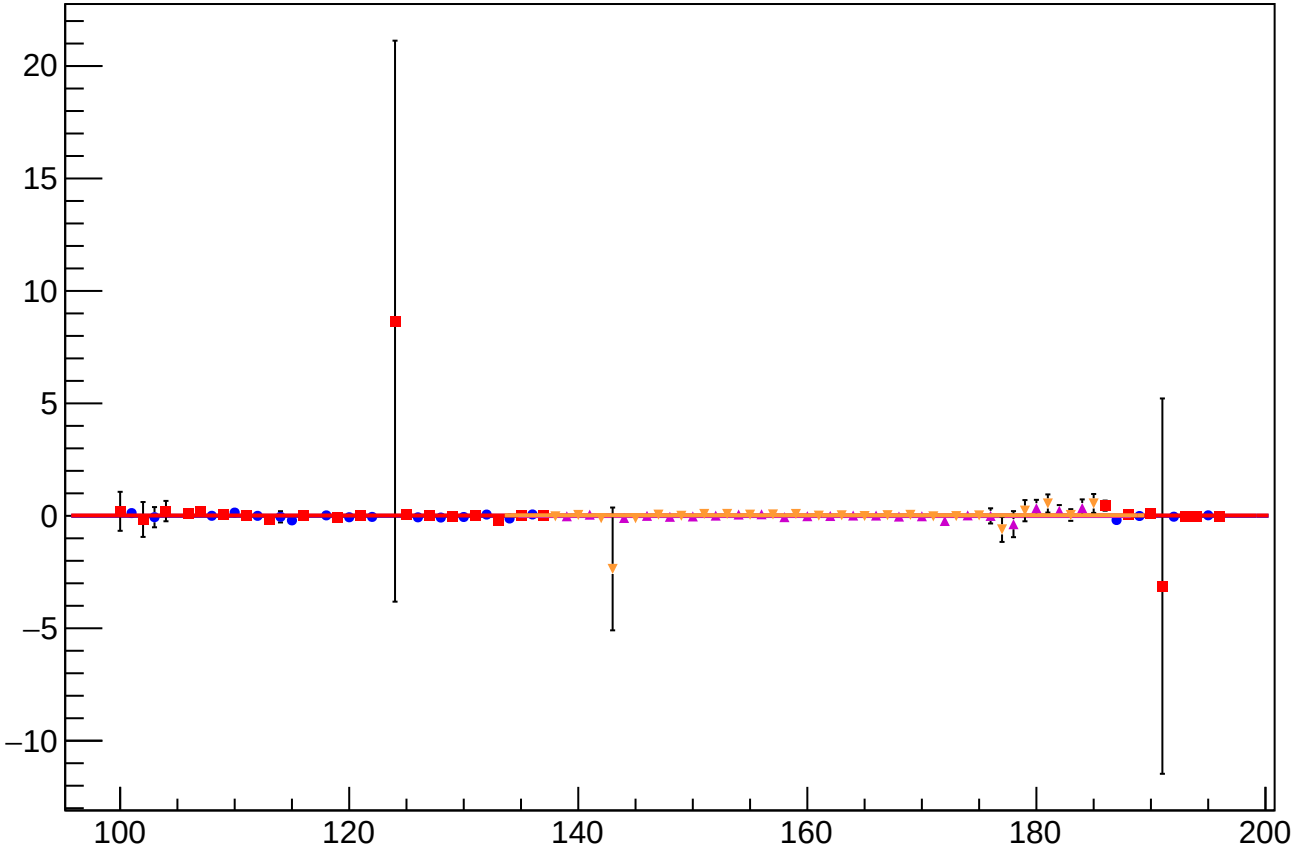
Right: 37.286+/-0.007 $\chi^2$/NDF: 6720715.1/45

In: 34.405+/-0.006 $\chi^2$/NDF:12383715.3/42

Out: 36.123+/-0.006 $\chi^2$/NDF:15915436.7/50

All: 35.245+/-0.004 $\chi^2$/NDF: 28344623.5/93

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.013 $\chi^2$/NDF: 23.0/19

Left Out: 0.023+/-0.010 $\chi^2$/NDF:22.8/24

Right Out: 0.015+/-0.014 $\chi^2$/NDF: 20.9/25

Left In: -0.010+/-0.010 $\chi^2$/NDF:14.8/22

Left: 0.006+/-0.007 $\chi^2$/NDF: 43.0/47

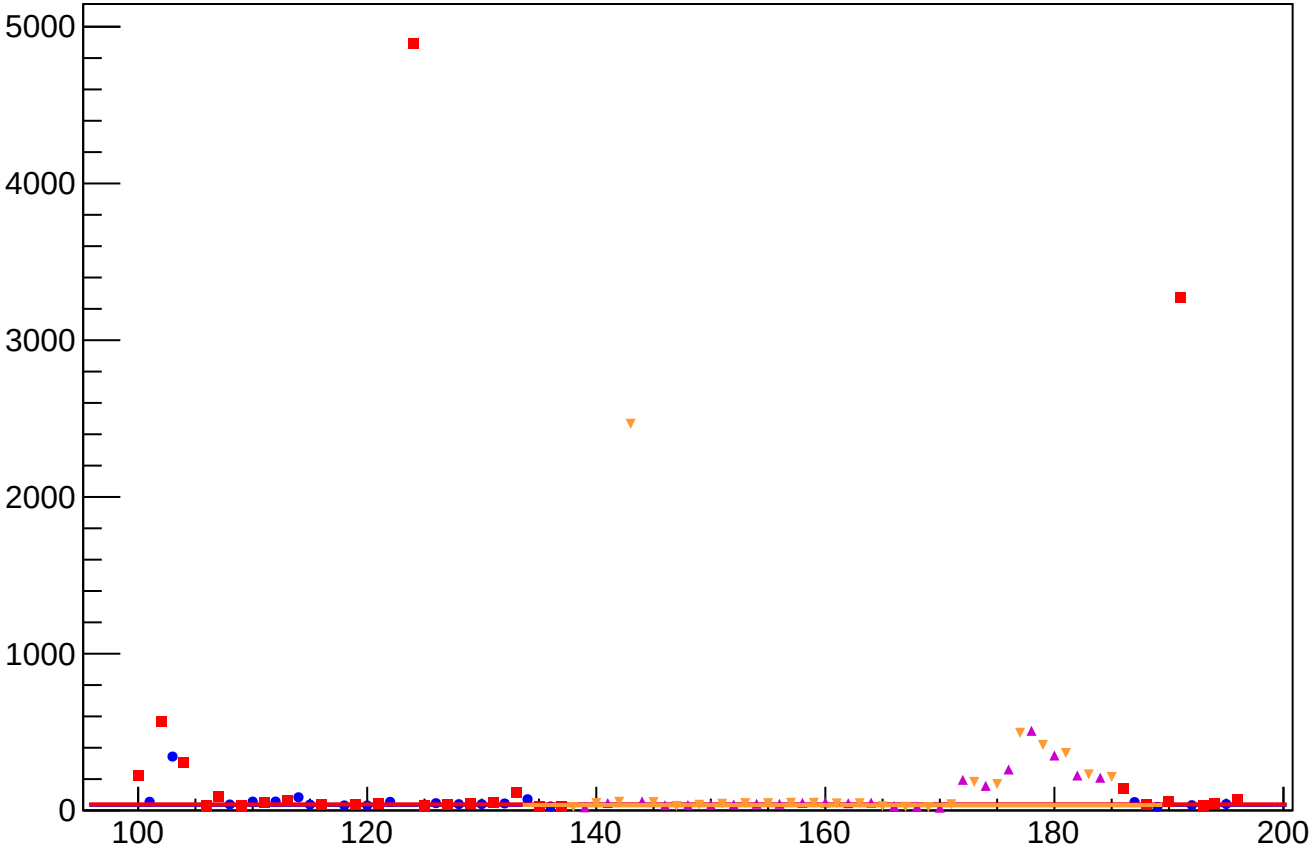
Right: 0.008+/-0.009 $\chi^2$/NDF: 44.6/45

In: -0.006+/-0.008 $\chi^2$/NDF:38.1/42

Out: 0.020+/-0.008 $\chi^2$/NDF:44.0/50

All: 0.007+/-0.006 $\chi^2$/NDF: 87.6/93

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 35.860+/-0.009 $\chi^2$/NDF: 2280349.8/19

Left Out: 34.623+/-0.007 $\chi^2$/NDF:11402566.2/24

Right Out: 38.752+/-0.010 $\chi^2$/NDF: 4393891.6/25

Left In: 33.595+/-0.007 $\chi^2$/NDF:10066196.6/22

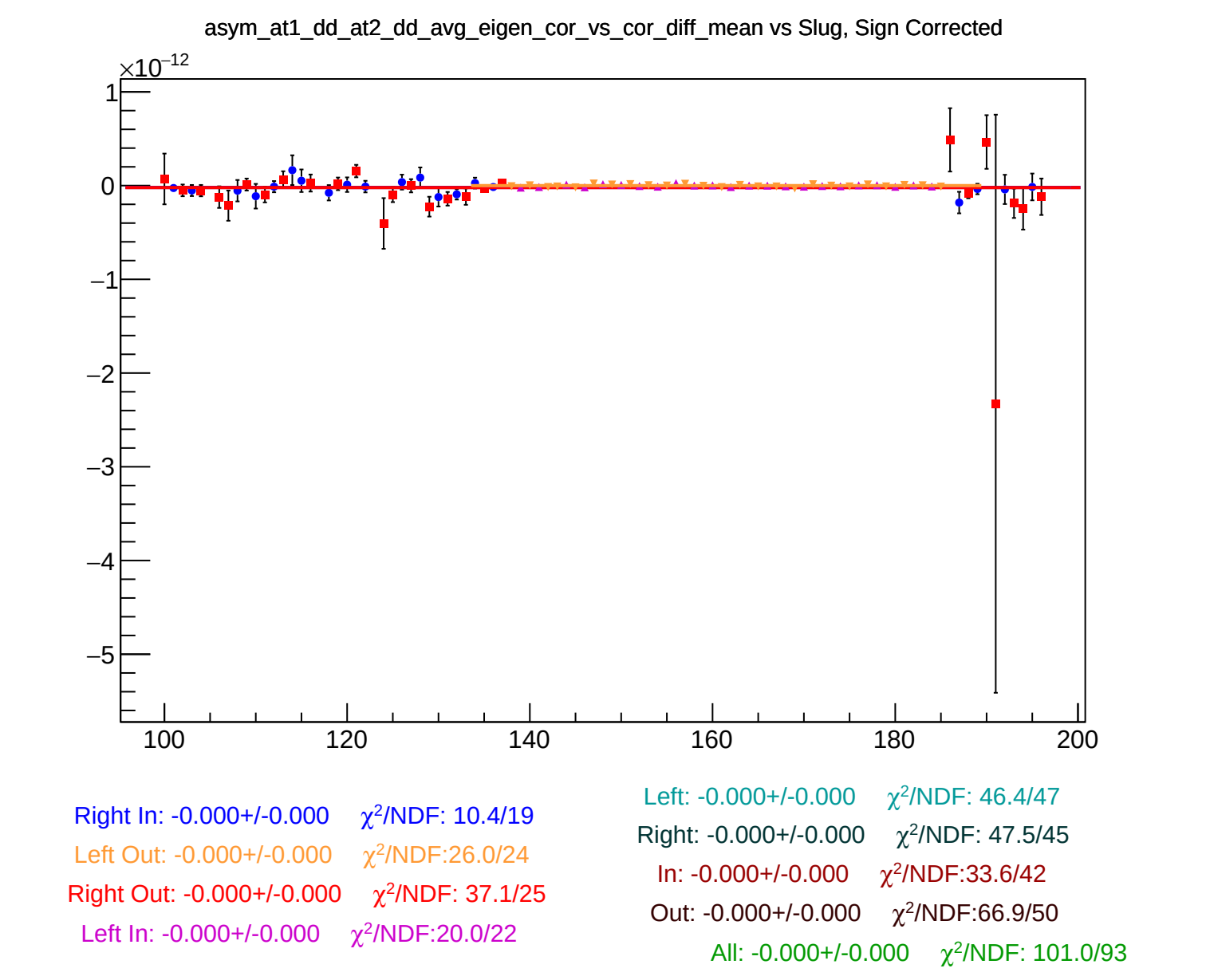
Left: 34.095+/-0.005 $\chi^2$/NDF: 21479175.2/47

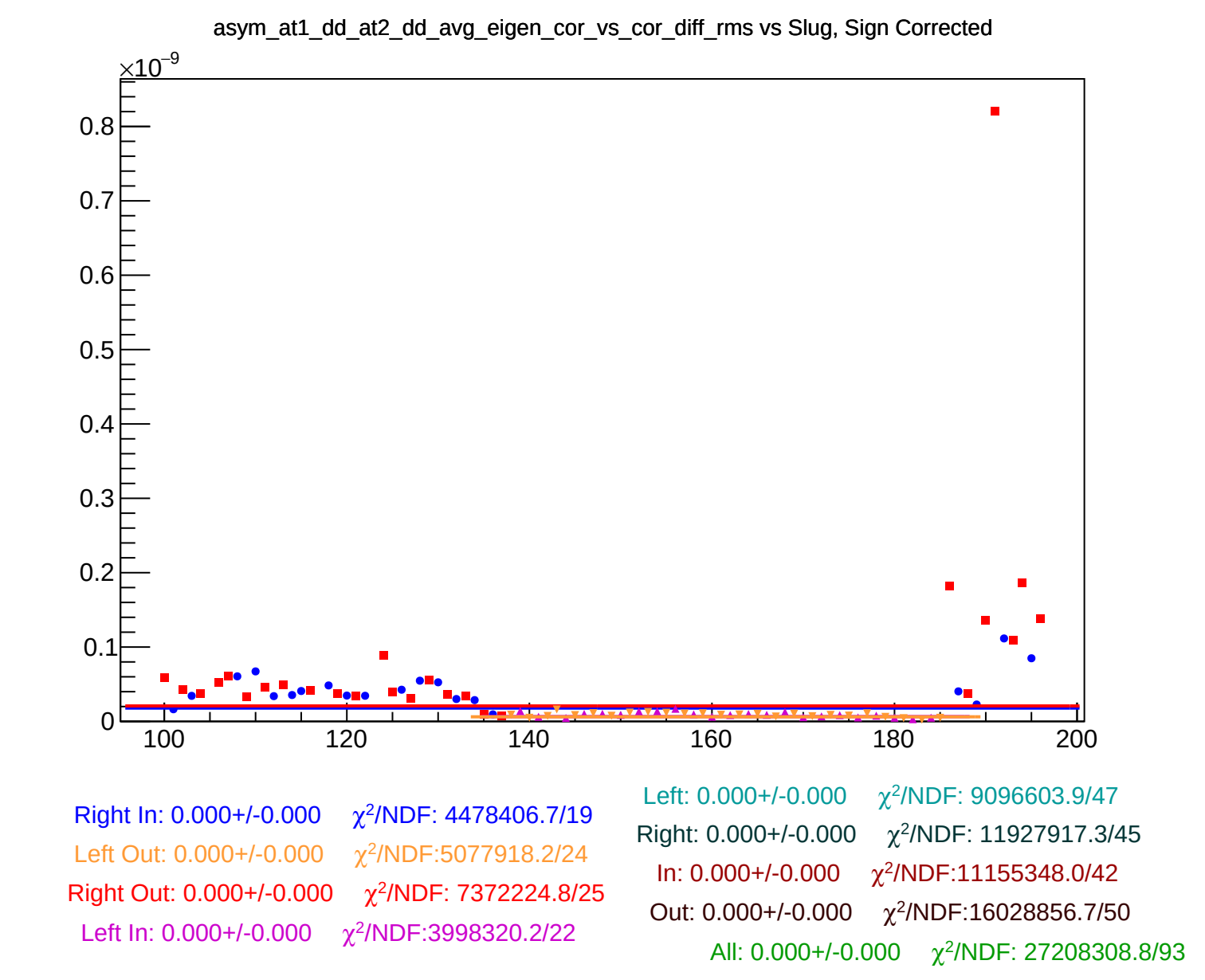
Right: 37.286+/-0.007 $\chi^2$/NDF: 6720715.1/45

In: 34.405+/-0.006 $\chi^2$/NDF:12383715.3/42

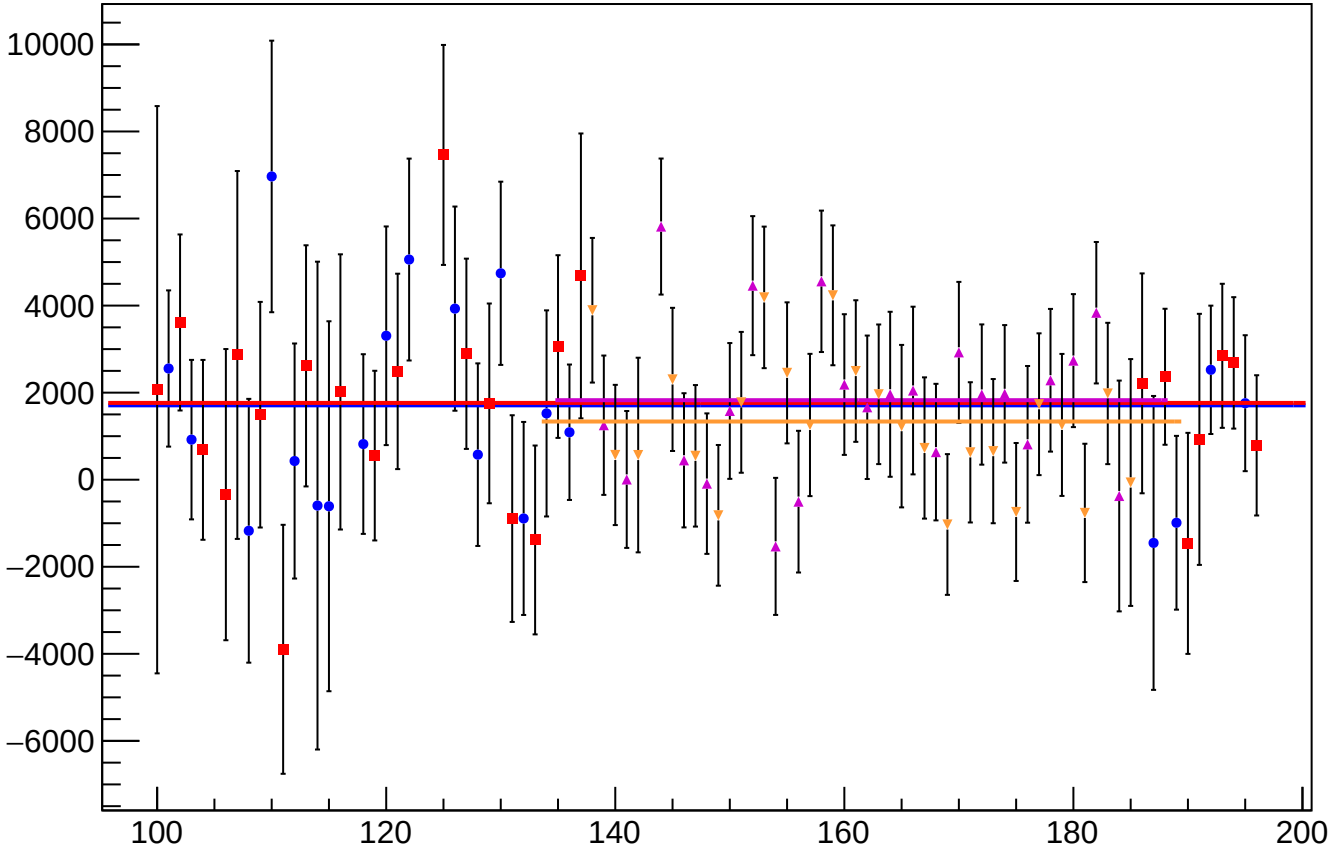
Out: 36.123+/-0.006 $\chi^2$/NDF:15915436.7/50

All: 35.245+/-0.004 $\chi^2$/NDF: 28344623.5/93


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 10.4/19
Left Out: -0.000+/-0.000 χ²/NDF:26.0/24
Right Out: -0.000+/-0.000 χ²/NDF: 37.1/25
Left In: -0.000+/-0.000 χ²/NDF:20.0/22
Left: -0.000+/-0.000 χ²/NDF: 46.4/47
Right: -0.000+/-0.000 χ²/NDF: 47.5/45
In: -0.000+/-0.000 χ²/NDF:33.6/42
Out: -0.000+/-0.000 χ²/NDF:66.9/50
All: -0.000+/-0.000 χ²/NDF: 101.0/93


asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4478406.7/19
Left Out: 0.000+/-0.000 χ²/NDF:5077918.2/24
Right Out: 0.000+/-0.000 χ²/NDF: 7372224.8/25
Left In: 0.000+/-0.000 χ²/NDF:3998320.2/22
Left: 0.000+/-0.000 χ²/NDF: 9096603.9/47
Right: 0.000+/-0.000 χ²/NDF: 11927917.3/45
In: 0.000+/-0.000 χ²/NDF:11155348.0/42
Out: 0.000+/-0.000 χ²/NDF:16028856.7/50
All: 0.000+/-0.000 χ²/NDF: 27208308.8/93

# reg_asym_usl_atl1_avg_mean vs Slug, Sign Corrected




Right In: 1708.466+/-484.355 $\chi^2$/NDF: 15.3/19

Left Out: 1337.008+/-341.012 $\chi^2$/NDF:19.2/23

Right Out: 1764.056+/-451.355 $\chi^2$/NDF: 19.0/24

Left In: 1826.599+/-343.483 $\chi^2$/NDF:26.5/22

Left: 1580.036+/-242.001 $\chi^2$/NDF: 46.7/46

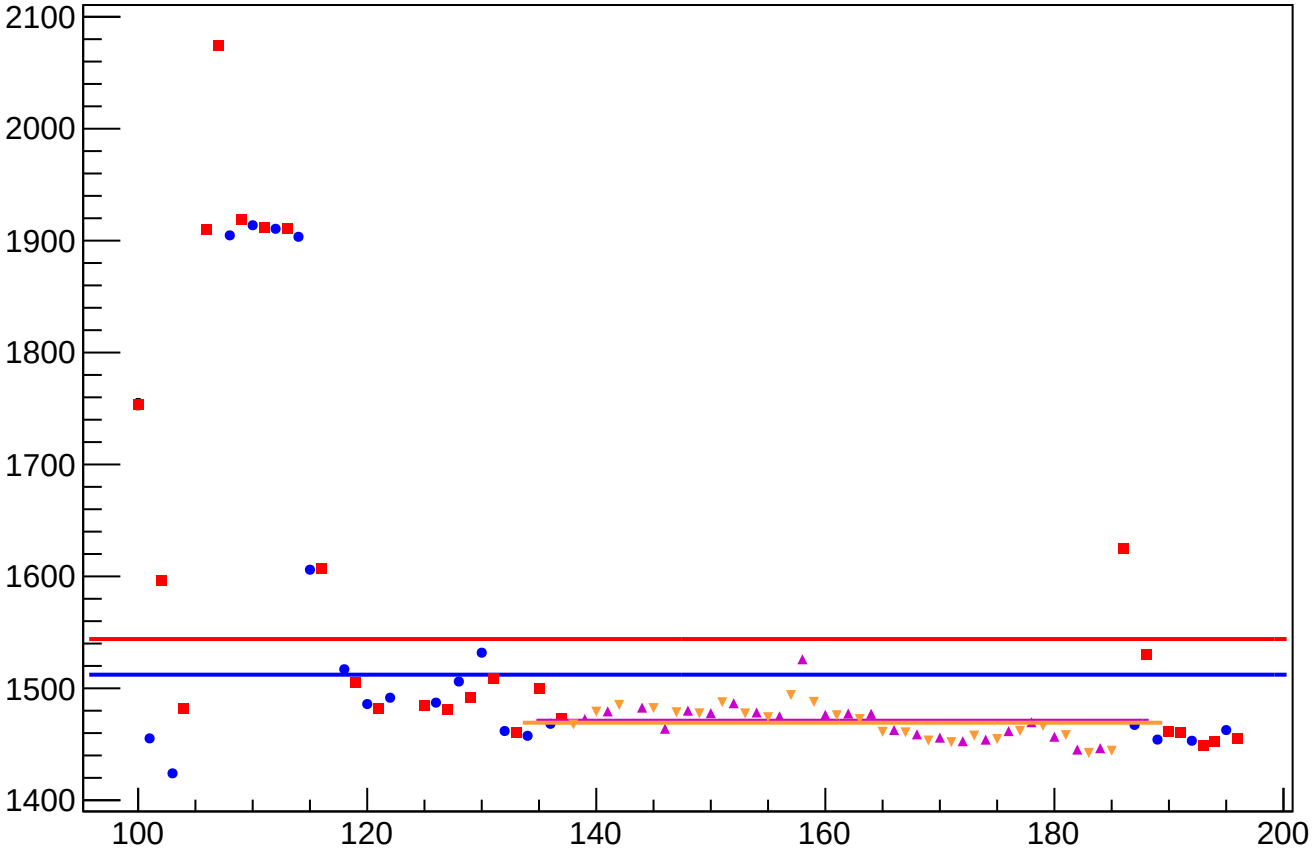
Right: 1738.219+/-330.207 $\chi^2$/NDF: 34.4/44

In: 1787.069+/-280.182 $\chi^2$/NDF:41.8/42

Out: 1492.194+/-272.086 $\chi^2$/NDF:38.8/48

All: 1635.310+/-195.193 $\chi^2$/NDF: 81.2/91

# reg_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1512.178+/-0.342 $\chi^2$/NDF: 139375.1/19

Left Out: 1469.267+/-0.241 $\chi^2$/NDF:3155.3/23

Right Out: 1544.032+/-0.319 $\chi^2$/NDF: 208869.4/24

Left In: 1471.054+/-0.243 $\chi^2$/NDF:4642.4/22

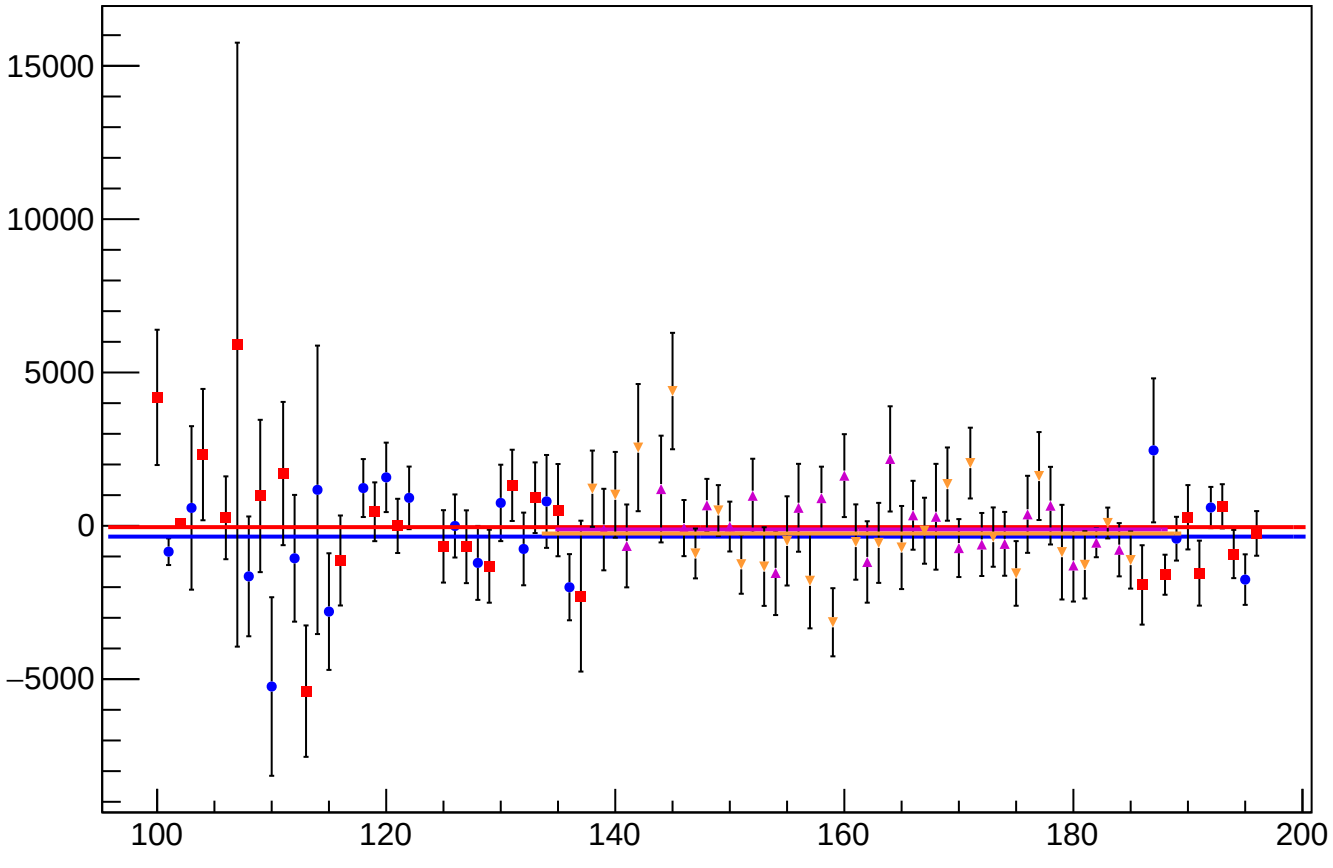
Left: 1470.154+/-0.171 $\chi^2$/NDF: 7825.0/46

Right: 1529.227+/-0.233 $\chi^2$/NDF: 352874.5/44

In: 1484.815+/-0.198 $\chi^2$/NDF:153610.8/42

Out: 1496.436+/-0.192 $\chi^2$/NDF:246960.6/48

All: 1490.796+/-0.138 $\chi^2$/NDF: 402342.2/91




Right In: -352.170+/-227.471 $\chi^2$/NDF: 24.5/19

Left Out: -251.610+/-218.369 $\chi^2$/NDF:32.7/23

Right Out: -42.822+/-118.270 $\chi^2$/NDF: 30.5/24

Left In: -119.802+/-215.975 $\chi^2$/NDF:12.8/22

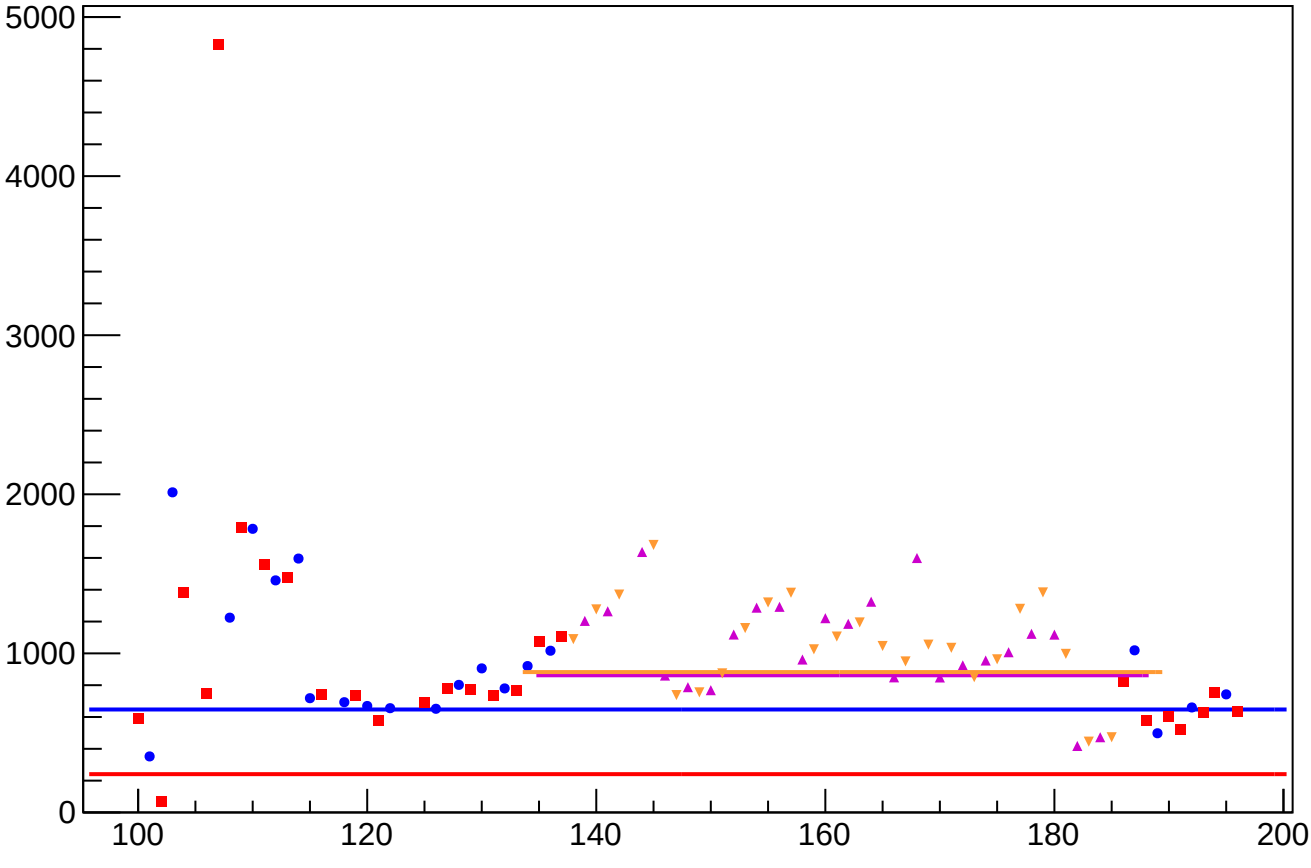
Left: -184.979+/-153.557 $\chi^2$/NDF: 45.7/46

Right: -108.652+/-104.934 $\chi^2$/NDF: 56.5/44

In: -229.966+/-156.624 $\chi^2$/NDF:37.9/42

Out: -90.176+/-103.996 $\chi^2$/NDF:63.9/48

All: -132.949+/-86.637 $\chi^2$/NDF: 102.4/91




Right In: 647.252+/-0.161 $\chi^2$/NDF: 2928253.6/19

Left Out: 882.430+/-0.154 $\chi^2$/NDF:3901279.8/23

Right Out: 240.776+/-0.084 $\chi^2$/NDF: 13630022.3/24

Left In: 862.298+/-0.153 $\chi^2$/NDF:4369416.2/22

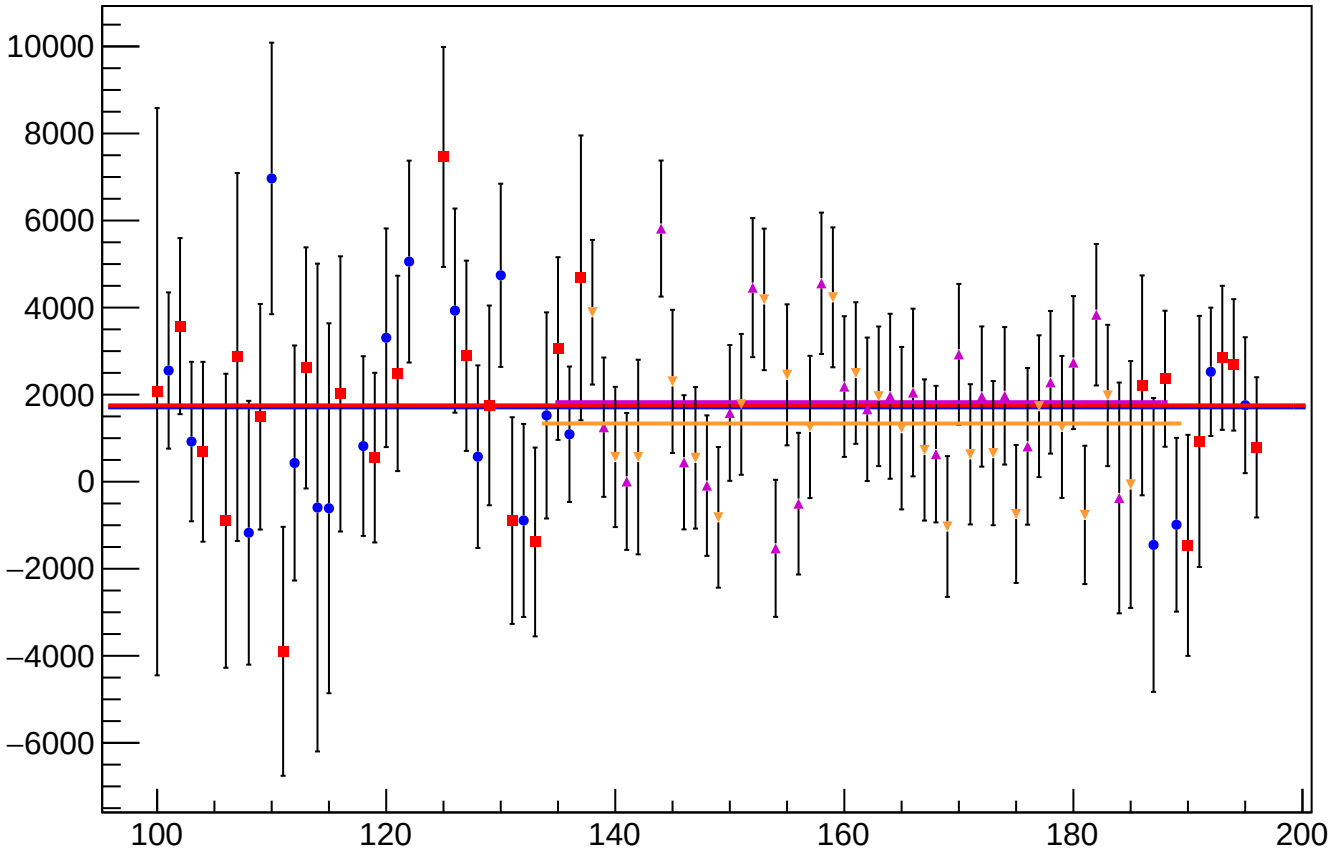
Left: 872.253+/-0.109 $\chi^2$/NDF: 8279289.7/46

Right: 327.275+/-0.074 $\chi^2$/NDF: 21585524.7/44

In: 760.346+/-0.111 $\chi^2$/NDF:8237709.7/42

Out: 386.306+/-0.074 $\chi^2$/NDF:30883030.3/48

All: 500.755+/-0.061 $\chi^2$/NDF: 47037037.4/91




Right In: 1708.547+/-484.355 $\chi^2$/NDF: 15.3/19

Left Out: 1337.018+/-341.012 $\chi^2$/NDF:19.2/23

Right Out: 1752.974+/-451.436 $\chi^2$/NDF: 19.2/24

Left In: 1826.644+/-343.483 $\chi^2$/NDF:26.5/22

Left: 1580.064+/-242.001 $\chi^2$/NDF: 46.7/46

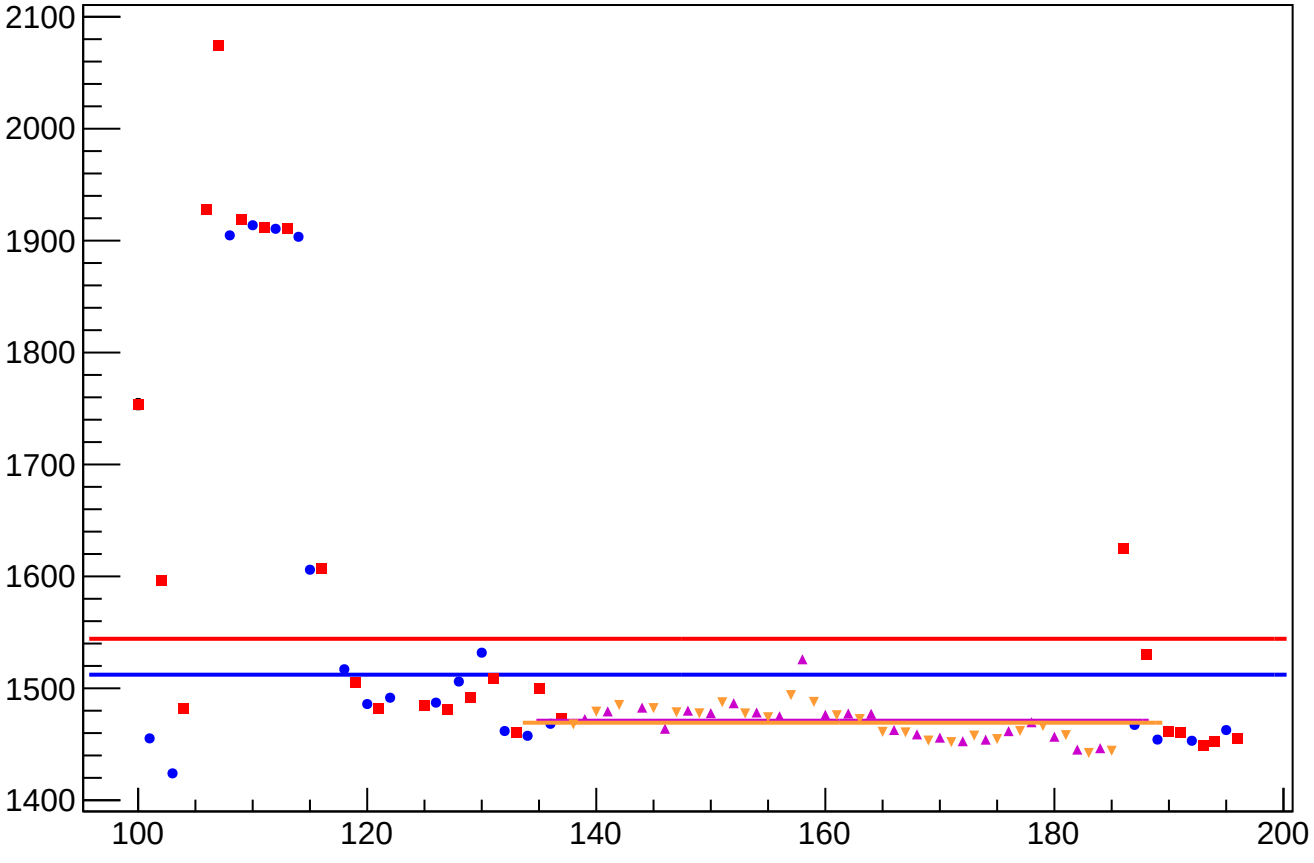
Right: 1732.322+/-330.238 $\chi^2$/NDF: 34.6/44

In: 1787.126+/-280.182 $\chi^2$/NDF:41.8/42

Out: 1488.139+/-272.104 $\chi^2$/NDF:38.9/48

All: 1633.260+/-195.200 $\chi^2$/NDF: 81.4/91

# cor_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1512.178+/-0.342 $\chi^2$/NDF: 139375.1/19

Left Out: 1469.267+/-0.241 $\chi^2$/NDF:3155.3/23

Right Out: 1544.242+/-0.319 $\chi^2$/NDF: 210834.0/24

Left In: 1471.054+/-0.243 $\chi^2$/NDF:4642.4/22

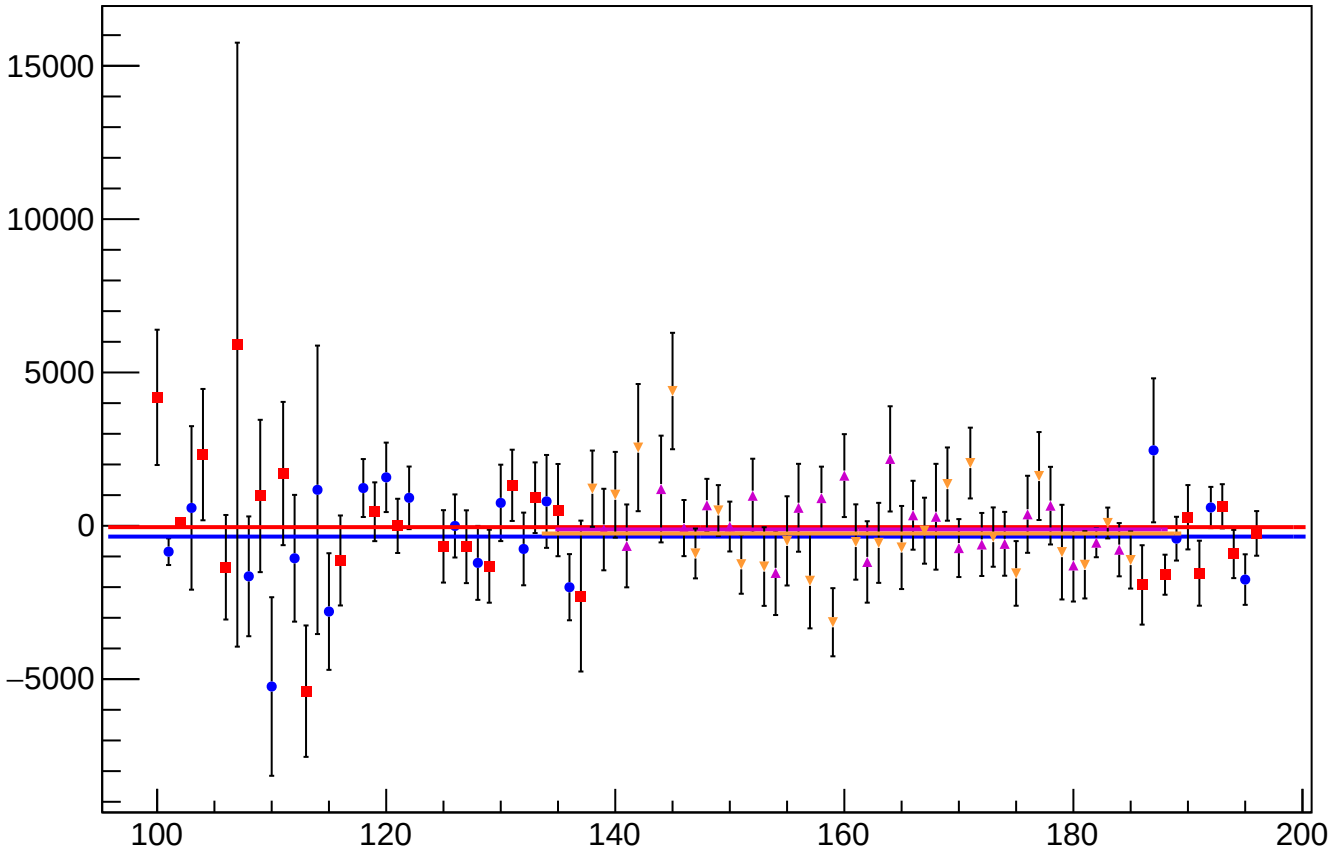
Left: 1470.154+/-0.171 $\chi^2$/NDF: 7825.0/46

Right: 1529.337+/-0.234 $\chi^2$/NDF: 354899.5/44

In: 1484.815+/-0.198 $\chi^2$/NDF:153610.8/42

Out: 1496.506+/-0.192 $\chi^2$/NDF:249113.6/48

All: 1490.831+/-0.138 $\chi^2$/NDF: 404516.5/91




Right In: -352.090+/-227.471 $\chi^2$/NDF: 24.5/19

Left Out: -251.589+/-218.368 $\chi^2$/NDF:32.7/23

Right Out: -43.453+/-126.415 $\chi^2$/NDF: 31.3/24

Left In: -119.845+/-215.975 $\chi^2$/NDF:12.8/22

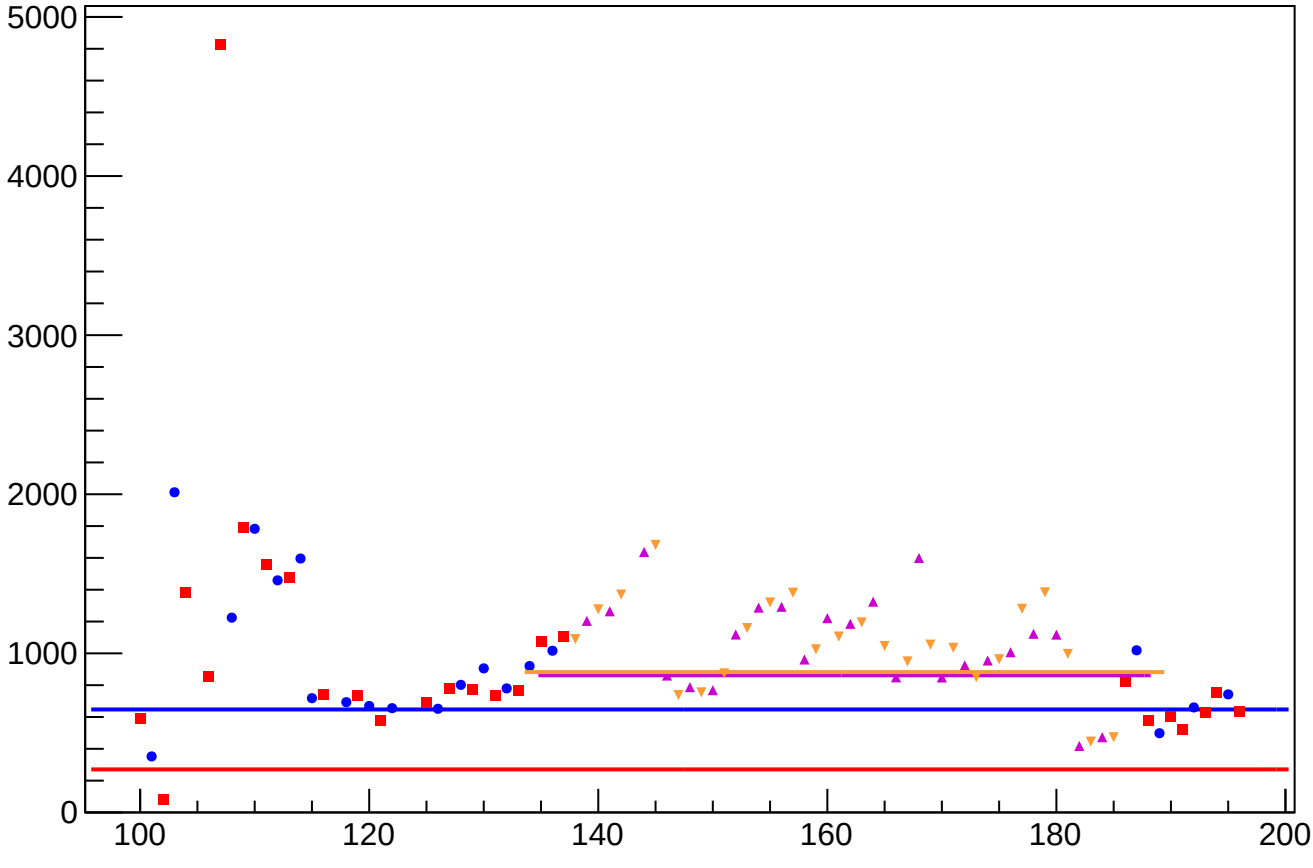
Left: -184.992+/-153.556 $\chi^2$/NDF: 45.7/46

Right: -116.282+/-110.498 $\chi^2$/NDF: 57.3/44

In: -229.951+/-156.624 $\chi^2$/NDF:37.9/42

Out: -95.698+/-109.405 $\chi^2$/NDF:64.7/48

All: -139.723+/-89.690 $\chi^2$/NDF: 103.1/91




Right In: 647.251+/-0.161 $\chi^2$/NDF: 2928303.1/19

Left Out: 882.419+/-0.154 $\chi^2$/NDF:3901620.8/23

Right Out: 270.635+/-0.089 $\chi^2$/NDF: 12689654.7/24

Left In: 862.300+/-0.153 $\chi^2$/NDF:4369426.7/22

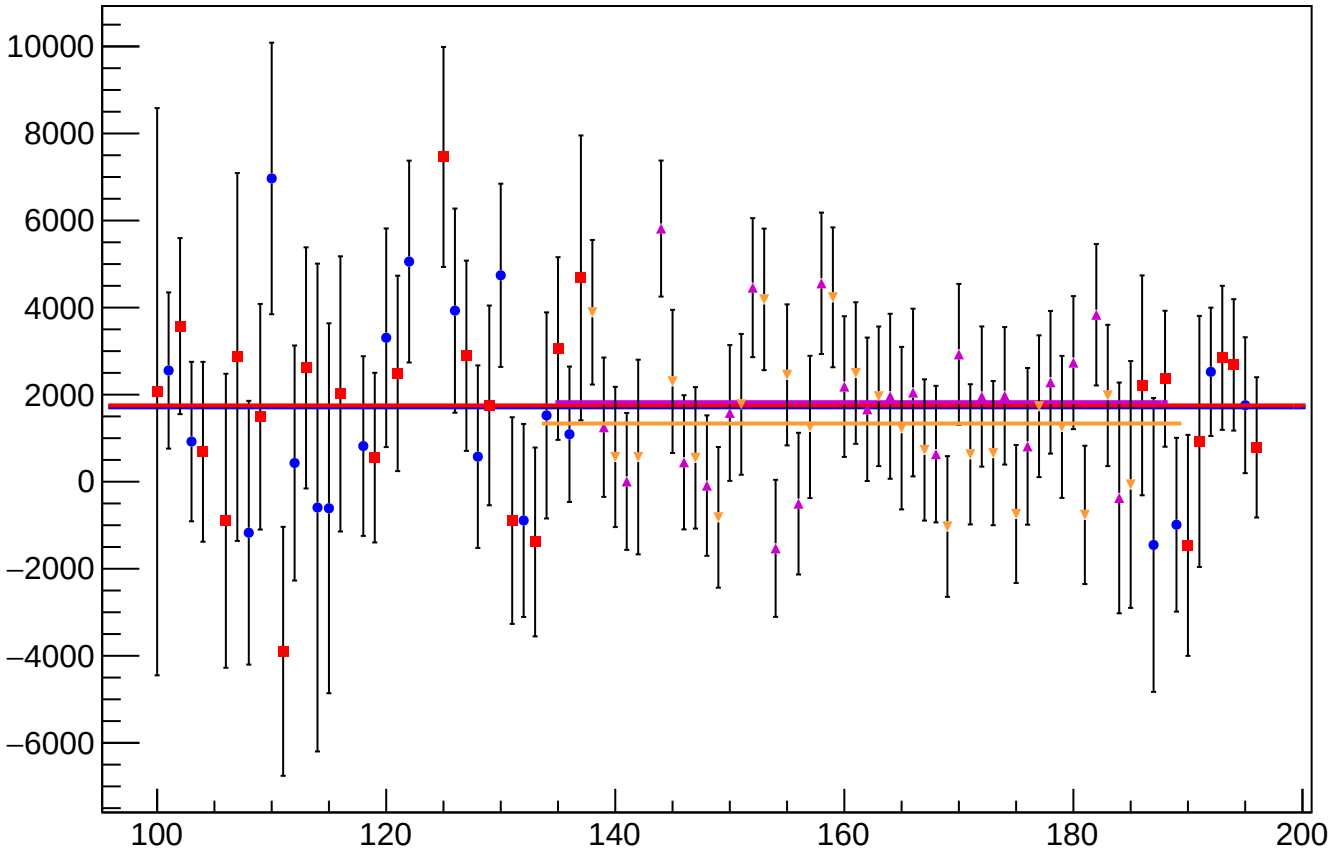
Left: 872.249+/-0.109 $\chi^2$/NDF: 8279630.1/46

Right: 359.505+/-0.078 $\chi^2$/NDF: 19806708.3/44

In: 760.346+/-0.111 $\chi^2$/NDF:8237799.6/42

Out: 424.201+/-0.077 $\chi^2$/NDF:28349015.8/48

All: 534.431+/-0.063 $\chi^2$/NDF: 42778179.8/91




Right In: 1708.547+/-484.355 $\chi^2$/NDF: 15.3/19

Left Out: 1337.018+/-341.012 $\chi^2$/NDF:19.2/23

Right Out: 1752.974+/-451.436 $\chi^2$/NDF: 19.2/24

Left In: 1826.644+/-343.483 $\chi^2$/NDF:26.5/22

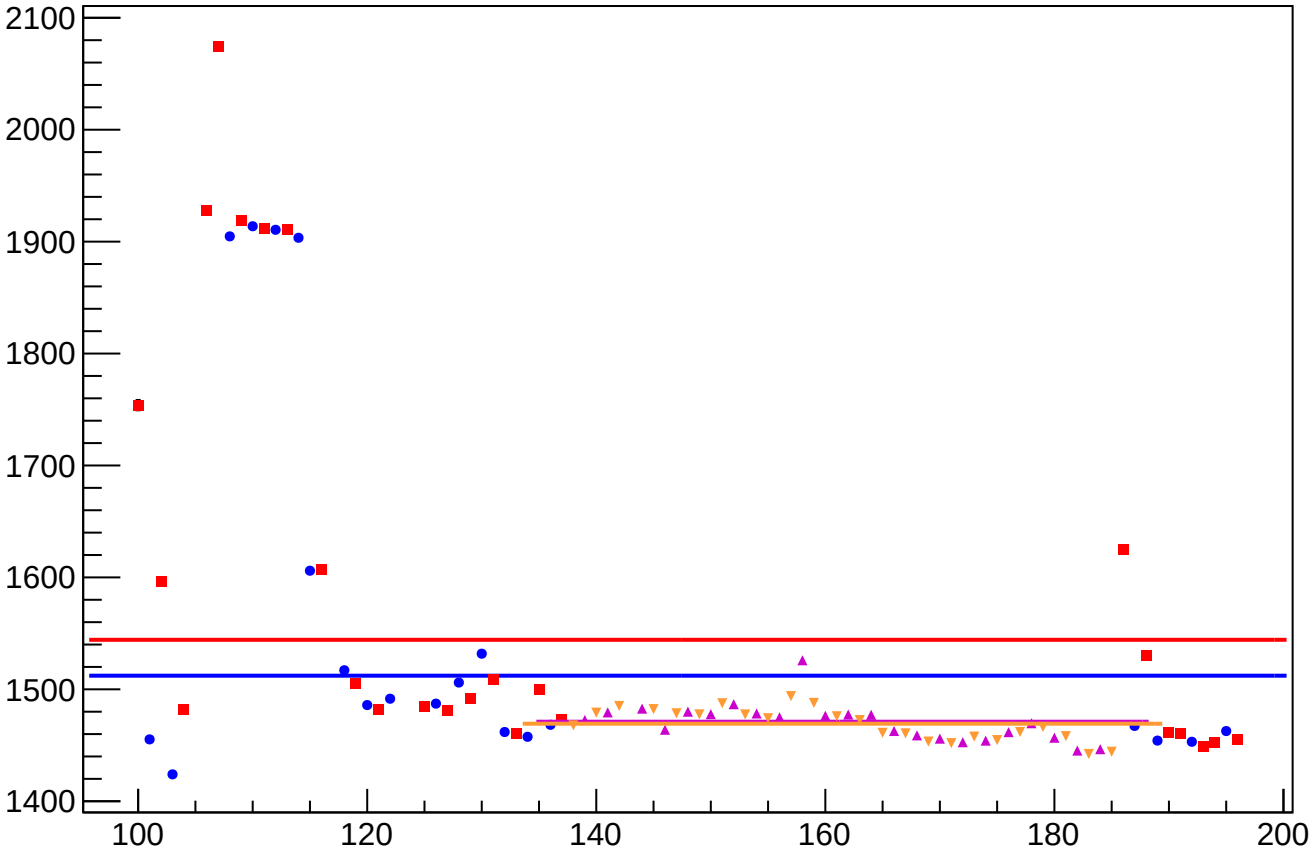
Left: 1580.064+/-242.001 $\chi^2$/NDF: 46.7/46

Right: 1732.322+/-330.238 $\chi^2$/NDF: 34.6/44

In: 1787.126+/-280.182 $\chi^2$/NDF:41.8/42

Out: 1488.139+/-272.104 $\chi^2$/NDF:38.9/48

All: 1633.260+/-195.200 $\chi^2$/NDF: 81.4/91




Right In: 1512.178+/-0.342 $\chi^2$/NDF: 139375.1/19

Left Out: 1469.267+/-0.241 $\chi^2$/NDF:3155.3/23

Right Out: 1544.242+/-0.319 $\chi^2$/NDF: 210834.0/24

Left In: 1471.054+/-0.243 $\chi^2$/NDF:4642.4/22

Left: 1470.154+/-0.171 $\chi^2$/NDF: 7825.0/46

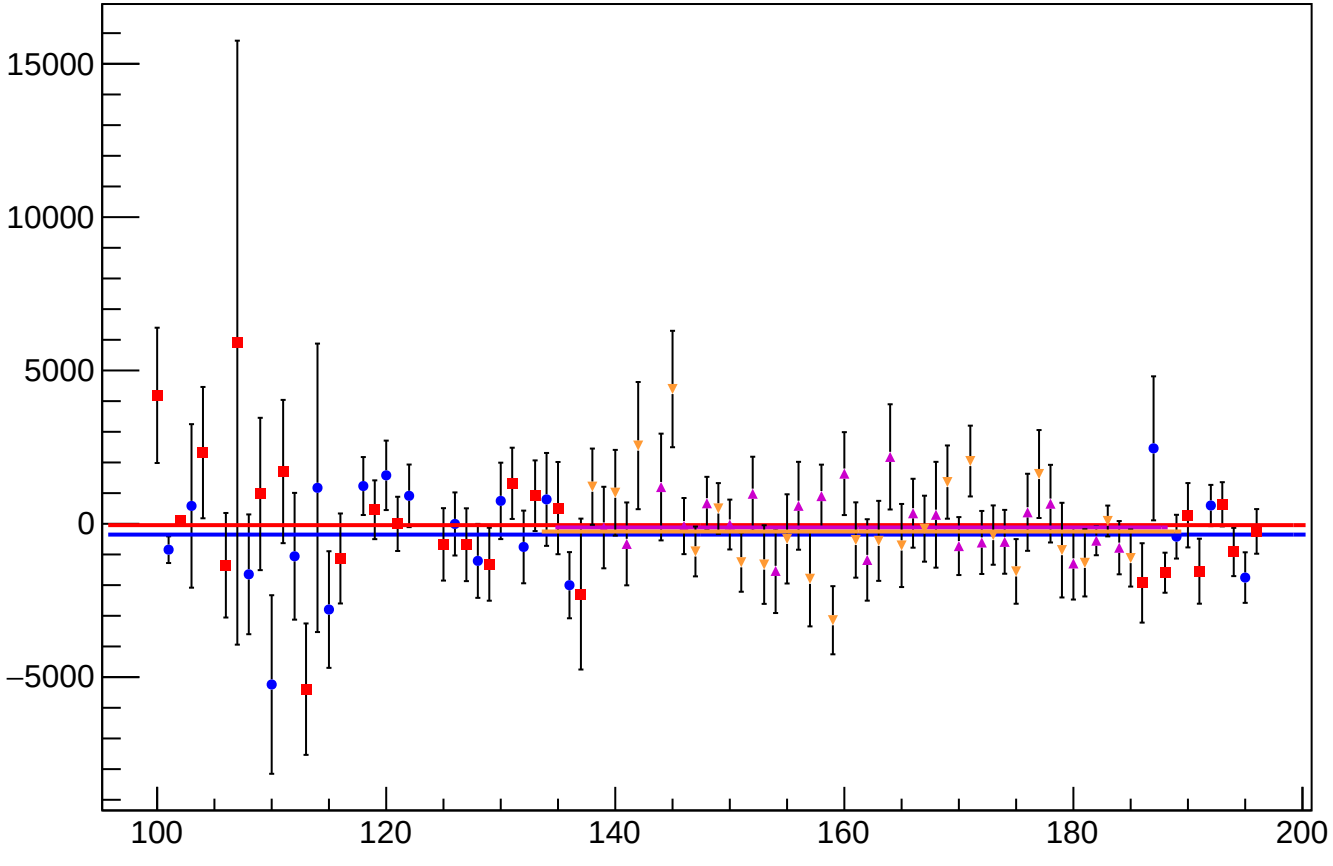
Right: 1529.337+/-0.234 $\chi^2$/NDF: 354899.5/44

In: 1484.815+/-0.198 $\chi^2$/NDF:153610.8/42

Out: 1496.506+/-0.192 $\chi^2$/NDF:249113.6/48

All: 1490.831+/-0.138 $\chi^2$/NDF: 404516.5/91

asym_usl_atl1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -352.090+/-227.471 $\chi^2$/NDF: 24.5/19

Left Out: -251.589+/-218.368 $\chi^2$/NDF:32.7/23

Right Out: -43.453+/-126.415 $\chi^2$/NDF: 31.3/24

Left In: -119.845+/-215.975 $\chi^2$/NDF:12.8/22

Left: -184.992+/-153.556 $\chi^2$/NDF: 45.7/46

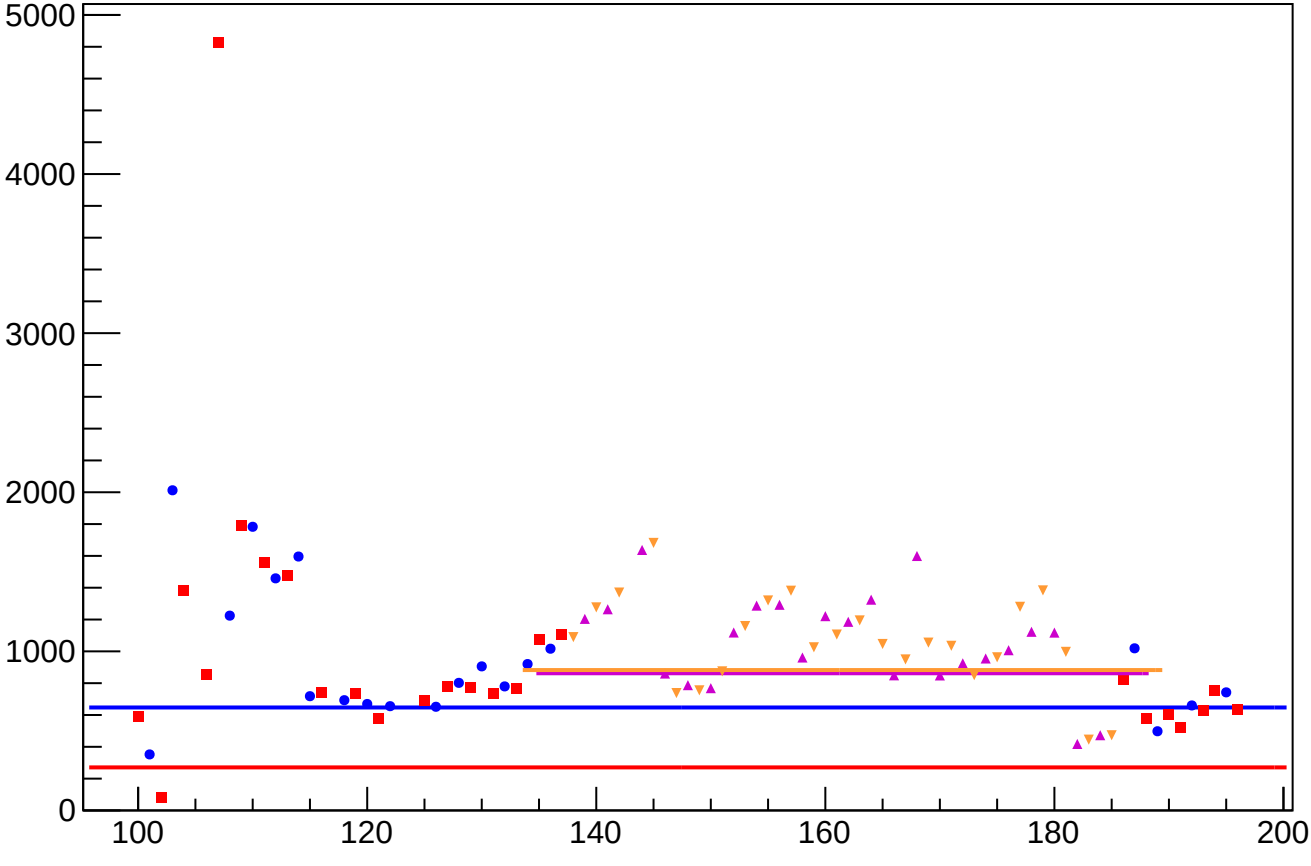
Right: -116.282+/-110.498 $\chi^2$/NDF: 57.3/44

In: -229.951+/-156.624 $\chi^2$/NDF:37.9/42

Out: -95.698+/-109.405 $\chi^2$/NDF:64.7/48

All: -139.723+/-89.690 $\chi^2$/NDF: 103.1/91

asym_usl_atl1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 647.251+/-0.161 $\chi^2$/NDF: 2928303.1/19

Left Out: 882.419+/-0.154 $\chi^2$/NDF:3901620.8/23

Right Out: 270.635+/-0.089 $\chi^2$/NDF: 12689654.7/24

Left In: 862.300+/-0.153 $\chi^2$/NDF:4369426.7/22

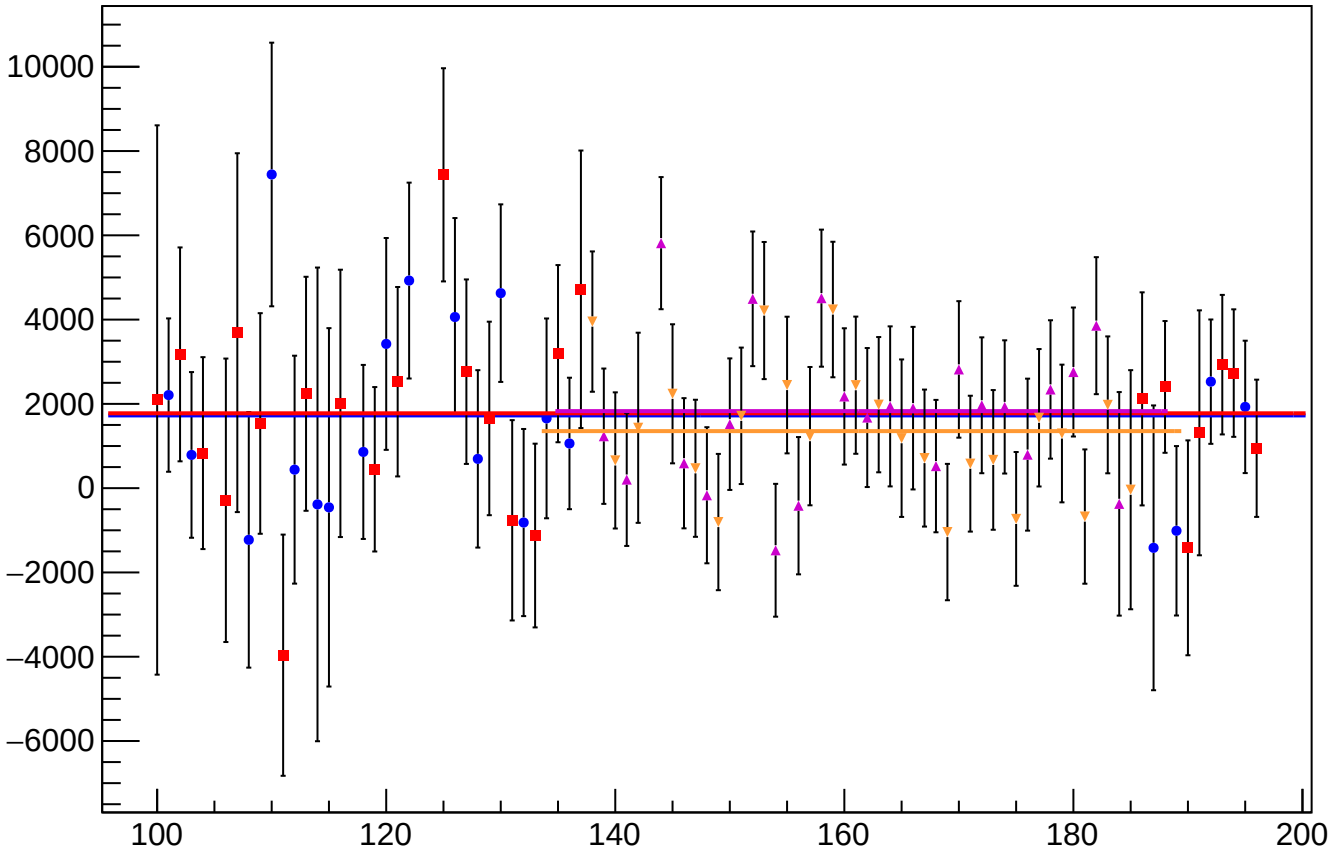
Left: 872.249+/-0.109 $\chi^2$/NDF: 8279630.1/46

Right: 359.505+/-0.078 $\chi^2$/NDF: 19806708.3/44

In: 760.346+/-0.111 $\chi^2$/NDF:8237799.6/42

Out: 424.201+/-0.077 $\chi^2$/NDF:28349015.8/48

All: 534.431+/-0.063 $\chi^2$/NDF: 42778179.8/91




Right In: 1726.392+/-488.137 $\chi^2$/NDF: 15.4/19

Left Out: 1353.686+/-341.570 $\chi^2$/NDF:18.9/23

Right Out: 1776.556+/-458.831 $\chi^2$/NDF: 18.0/24

Left In: 1828.250+/-343.952 $\chi^2$/NDF:25.8/22

Left: 1589.318+/-242.364 $\chi^2$/NDF: 45.7/46

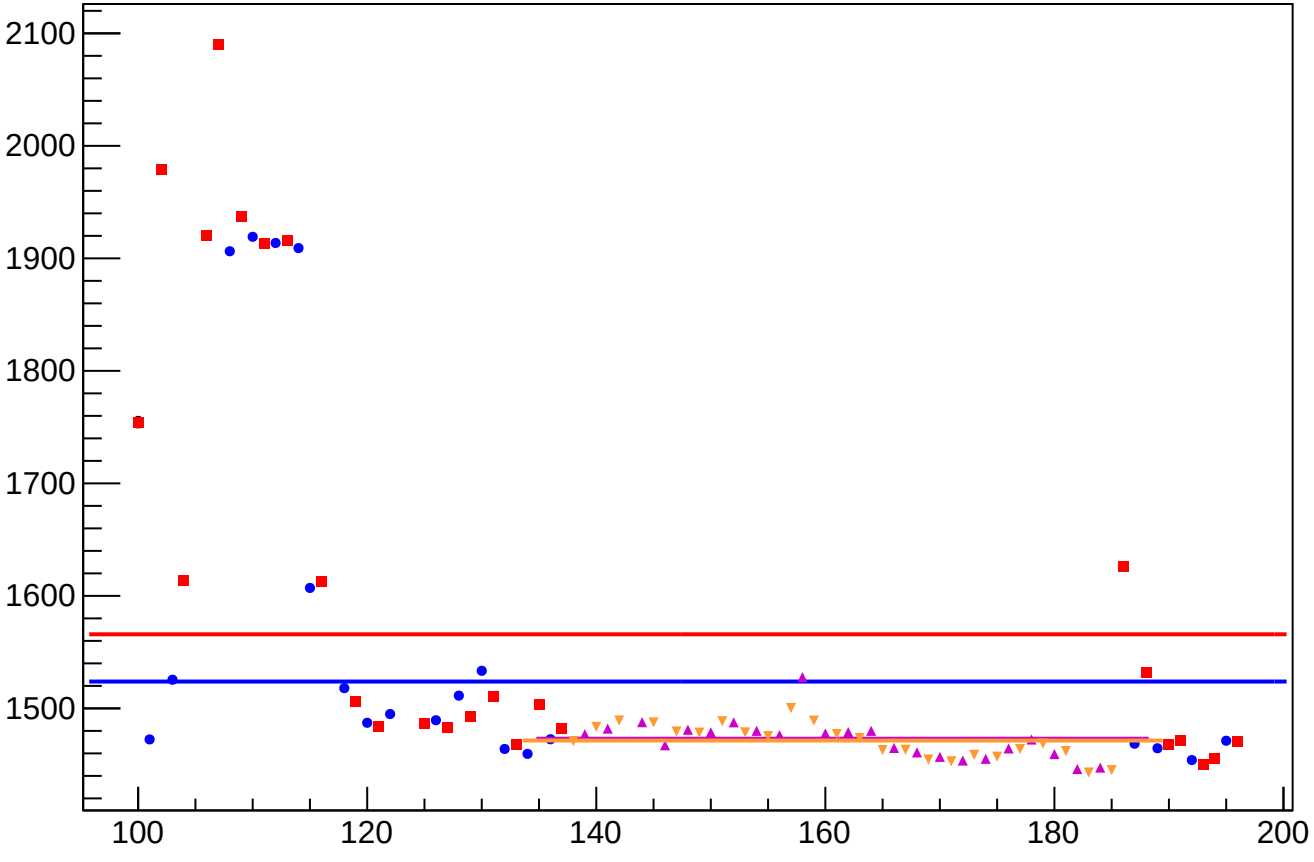
Right: 1753.025+/-334.323 $\chi^2$/NDF: 33.4/44

In: 1794.456+/-281.165 $\chi^2$/NDF:41.3/42

Out: 1504.471+/-273.986 $\chi^2$/NDF:37.5/48

All: 1645.714+/-196.226 $\chi^2$/NDF: 79.3/91

# dit_asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1523.858+/-0.345 $\chi^2$/NDF: 132438.5/19

Left Out: 1471.437+/-0.242 $\chi^2$/NDF:3436.8/23

Right Out: 1565.848+/-0.324 $\chi^2$/NDF: 264020.3/24

Left In: 1473.049+/-0.243 $\chi^2$/NDF:4751.3/22

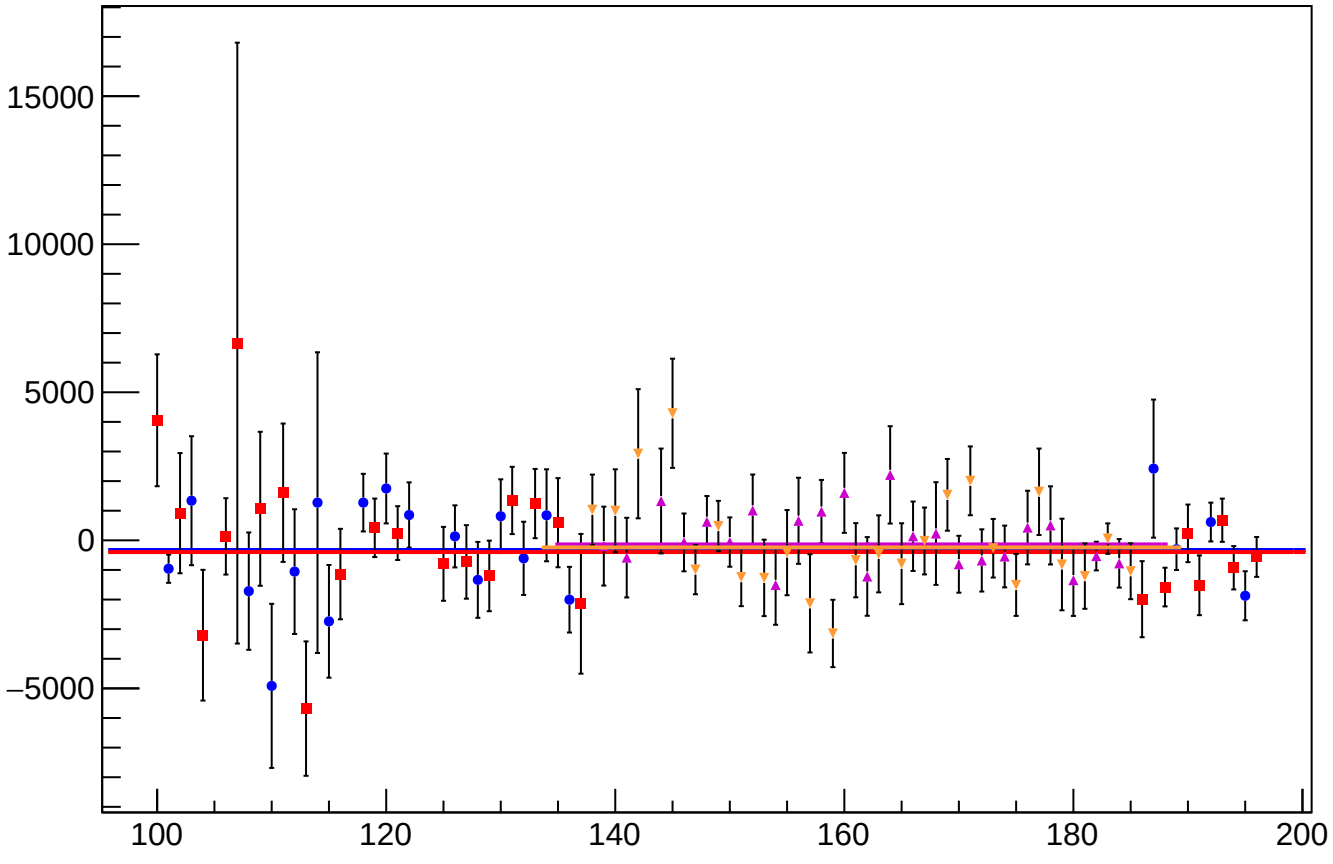
Left: 1472.237+/-0.171 $\chi^2$/NDF: 8210.2/46

Right: 1546.151+/-0.236 $\chi^2$/NDF: 404316.0/44

In: 1489.906+/-0.199 $\chi^2$/NDF:151669.4/42

Out: 1505.101+/-0.194 $\chi^2$/NDF:321941.0/48

All: 1497.700+/-0.139 $\chi^2$/NDF: 476606.9/91




Right In: -326.826+/-234.585 $\chi^2$/NDF: 25.9/19

Left Out: -240.267+/-221.787 $\chi^2$/NDF:32.4/23

Right Out: -395.466+/-226.416 $\chi^2$/NDF: 29.7/24

Left In: -138.421+/-218.478 $\chi^2$/NDF:13.0/22

Left: -188.579+/-155.644 $\chi^2$/NDF: 45.5/46

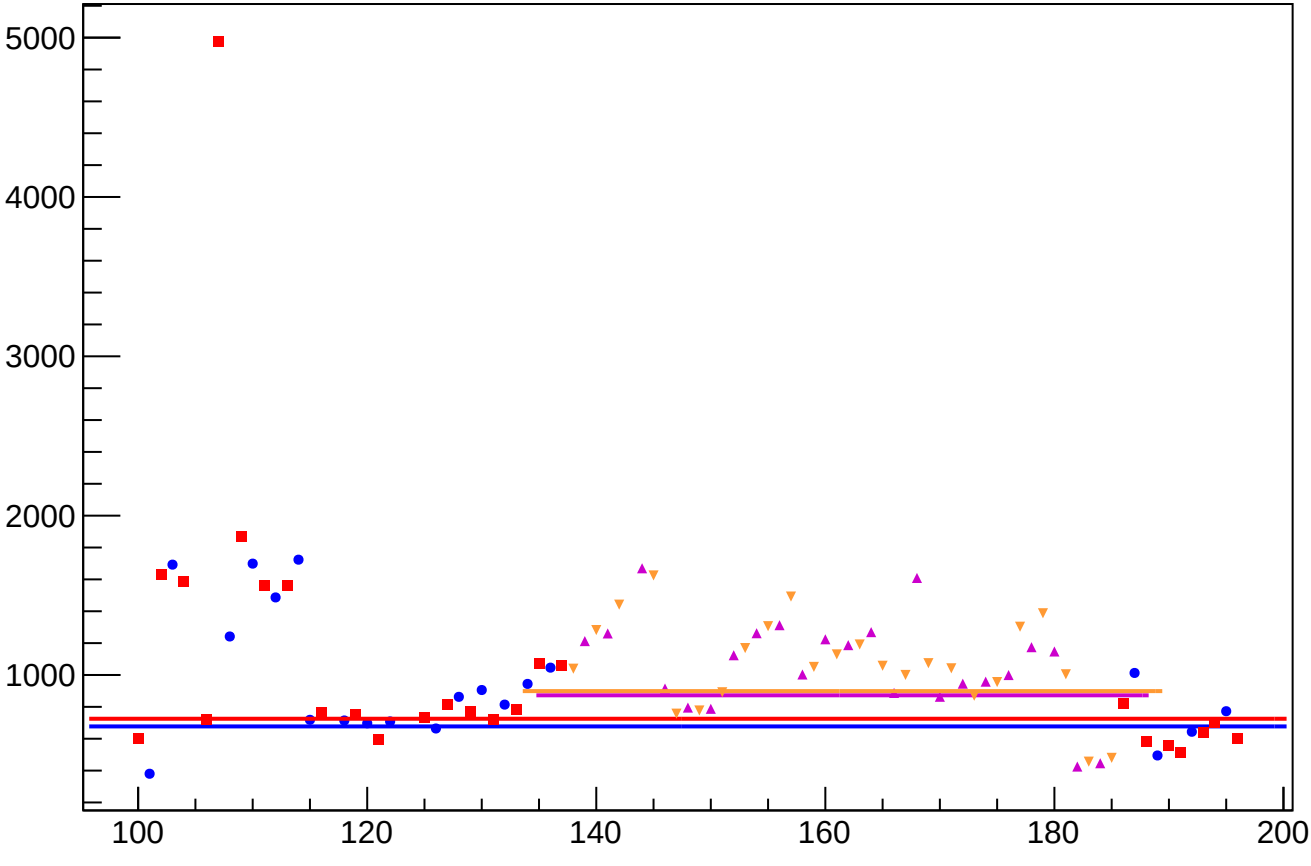
Right: -362.362+/-162.912 $\chi^2$/NDF: 55.6/44

In: -225.934+/-159.878 $\chi^2$/NDF:39.2/42

Out: -316.264+/-158.439 $\chi^2$/NDF:62.4/48

All: -271.508+/-112.539 $\chi^2$/NDF: 101.8/91

asym_usl_atl1_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 677.219+/-0.166 $\chi^2$/NDF: 2653767.0/19

Left Out: 898.849+/-0.157 $\chi^2$/NDF:3791528.8/23

Right Out: 725.385+/-0.160 $\chi^2$/NDF: 2534427.5/24

Left In: 872.472+/-0.154 $\chi^2$/NDF:4435516.3/22

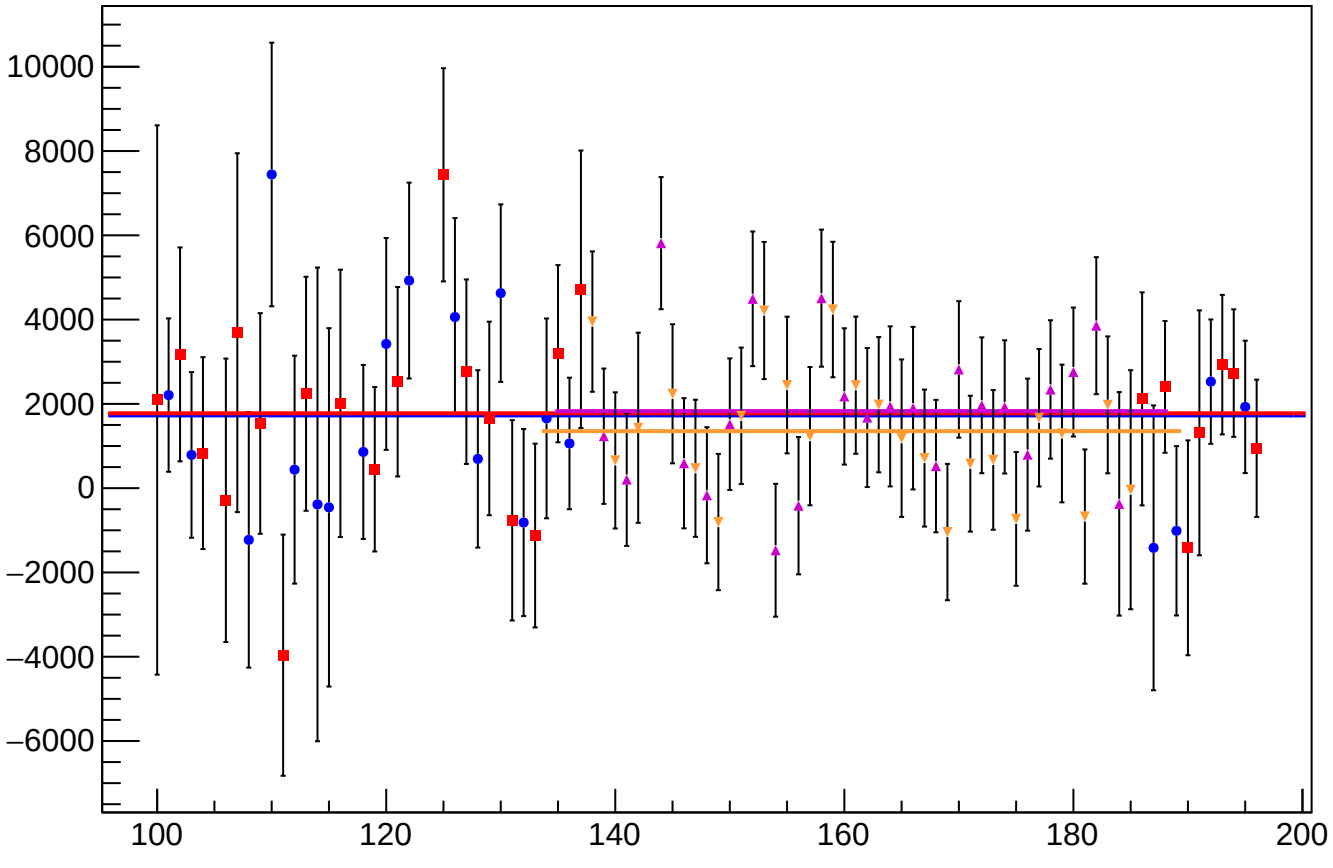
Left: 885.462+/-0.110 $\chi^2$/NDF: 8241401.5/46

Right: 702.155+/-0.115 $\chi^2$/NDF: 5231845.2/44

In: 781.779+/-0.113 $\chi^2$/NDF:7831257.6/42

Out: 813.908+/-0.112 $\chi^2$/NDF:6925032.2/48

All: 797.989+/-0.080 $\chi^2$/NDF: 14797040.9/91




Right In: 1726.390+/-488.137 $\chi^2$/NDF: 15.4/19

Left Out: 1353.684+/-341.570 $\chi^2$/NDF:18.9/23

Right Out: 1776.554+/-458.831 $\chi^2$/NDF: 18.0/24

Left In: 1828.250+/-343.952 $\chi^2$/NDF:25.8/22

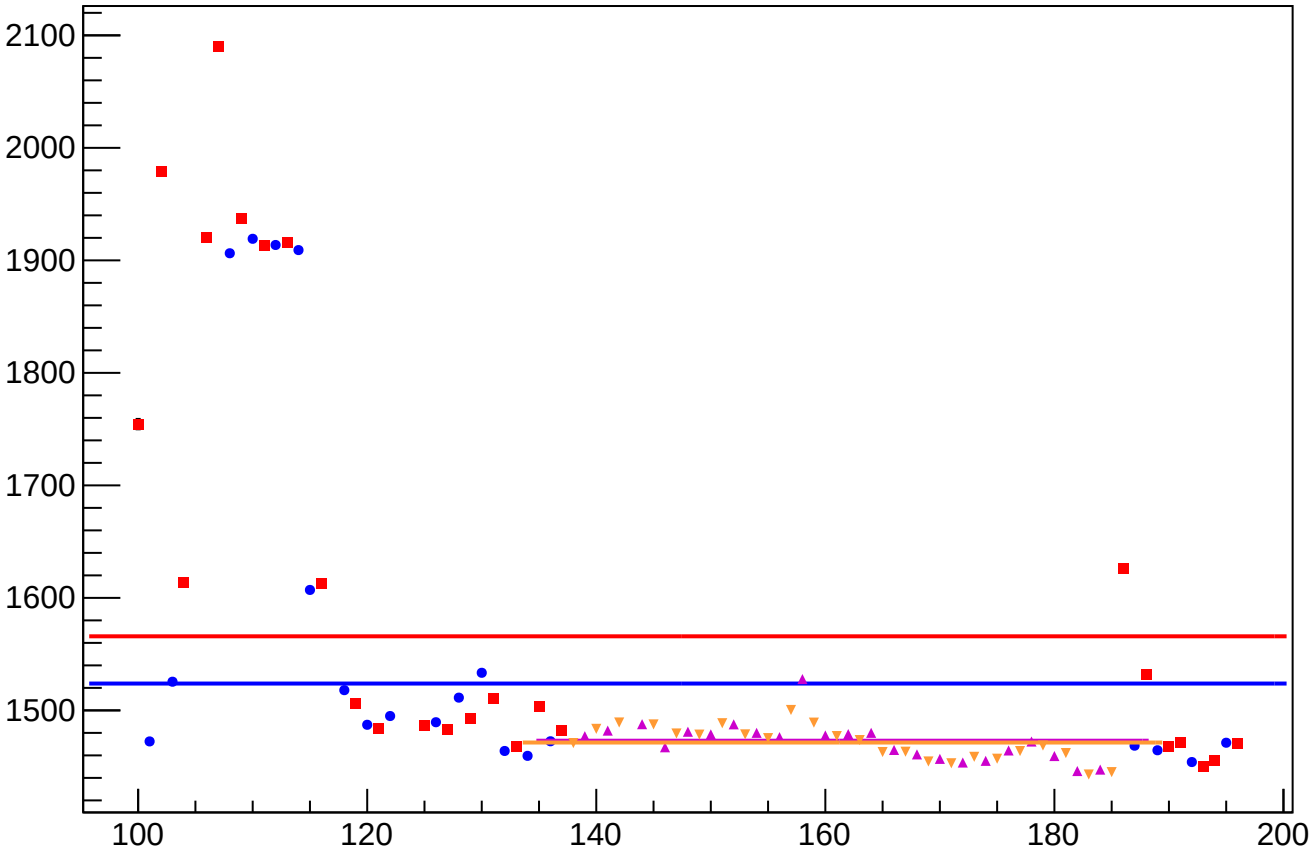
Left: 1589.318+/-242.364 $\chi^2$/NDF: 45.7/46

Right: 1753.023+/-334.323 $\chi^2$/NDF: 33.4/44

In: 1794.456+/-281.165 $\chi^2$/NDF:41.3/42

Out: 1504.469+/-273.986 $\chi^2$/NDF:37.5/48

All: 1645.713+/-196.226 $\chi^2$/NDF: 79.3/91




Right In: 1523.858+/-0.345 $\chi^2$/NDF: 132438.5/19

Left Out: 1471.437+/-0.242 $\chi^2$/NDF:3436.8/23

Right Out: 1565.848+/-0.324 $\chi^2$/NDF: 264020.0/24

Left In: 1473.049+/-0.243 $\chi^2$/NDF:4751.3/22

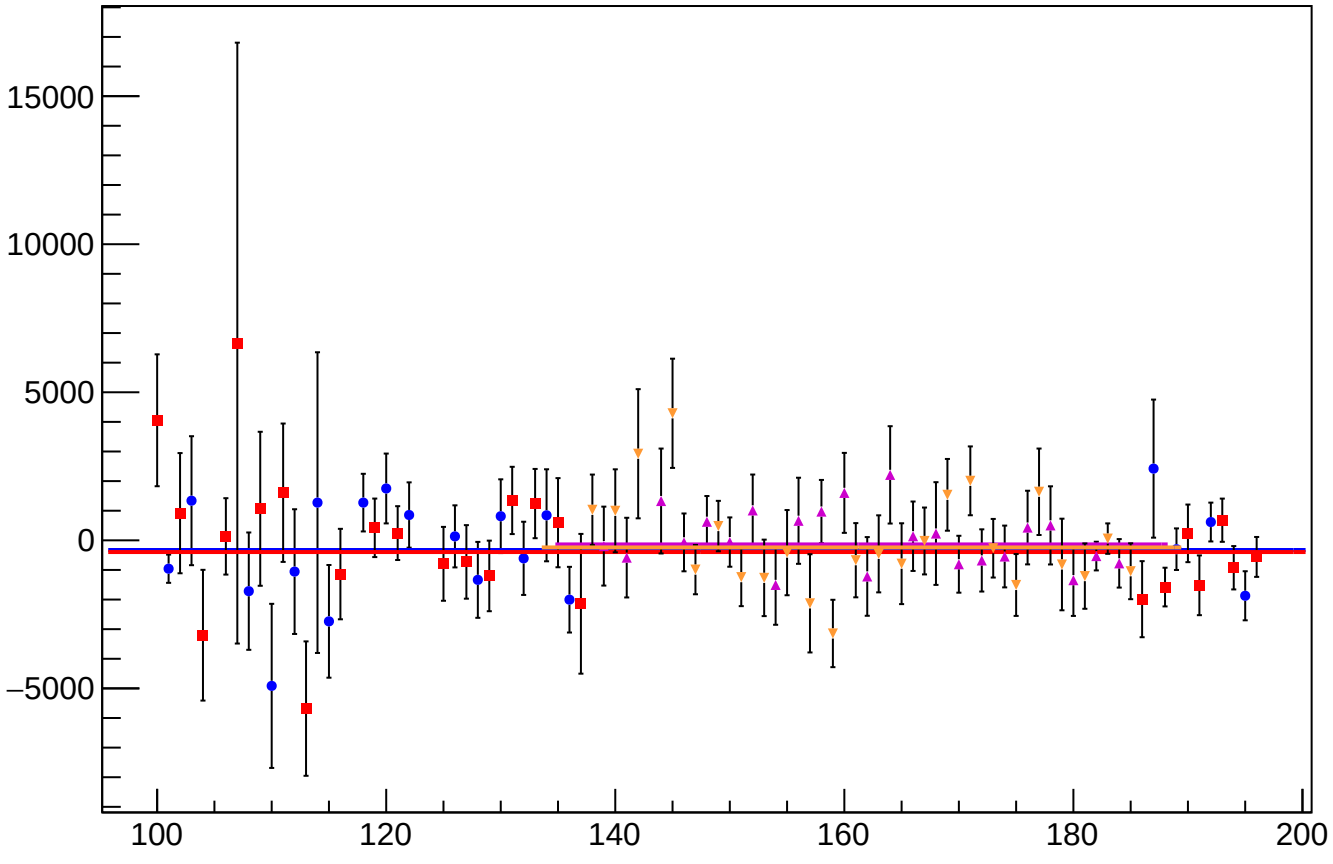
Left: 1472.237+/-0.171 $\chi^2$/NDF: 8210.2/46

Right: 1546.151+/-0.236 $\chi^2$/NDF: 404315.7/44

In: 1489.906+/-0.199 $\chi^2$/NDF:151669.3/42

Out: 1505.101+/-0.194 $\chi^2$/NDF:321940.5/48

All: 1497.700+/-0.139 $\chi^2$/NDF: 476606.2/91




Right In: -326.825+/-234.585 $\chi^2$/NDF: 25.9/19

Left Out: -240.269+/-221.788 $\chi^2$/NDF:32.4/23

Right Out: -395.466+/-226.416 $\chi^2$/NDF: 29.7/24

Left In: -138.421+/-218.478 $\chi^2$/NDF:13.0/22

Left: -188.580+/-155.644 $\chi^2$/NDF: 45.5/46

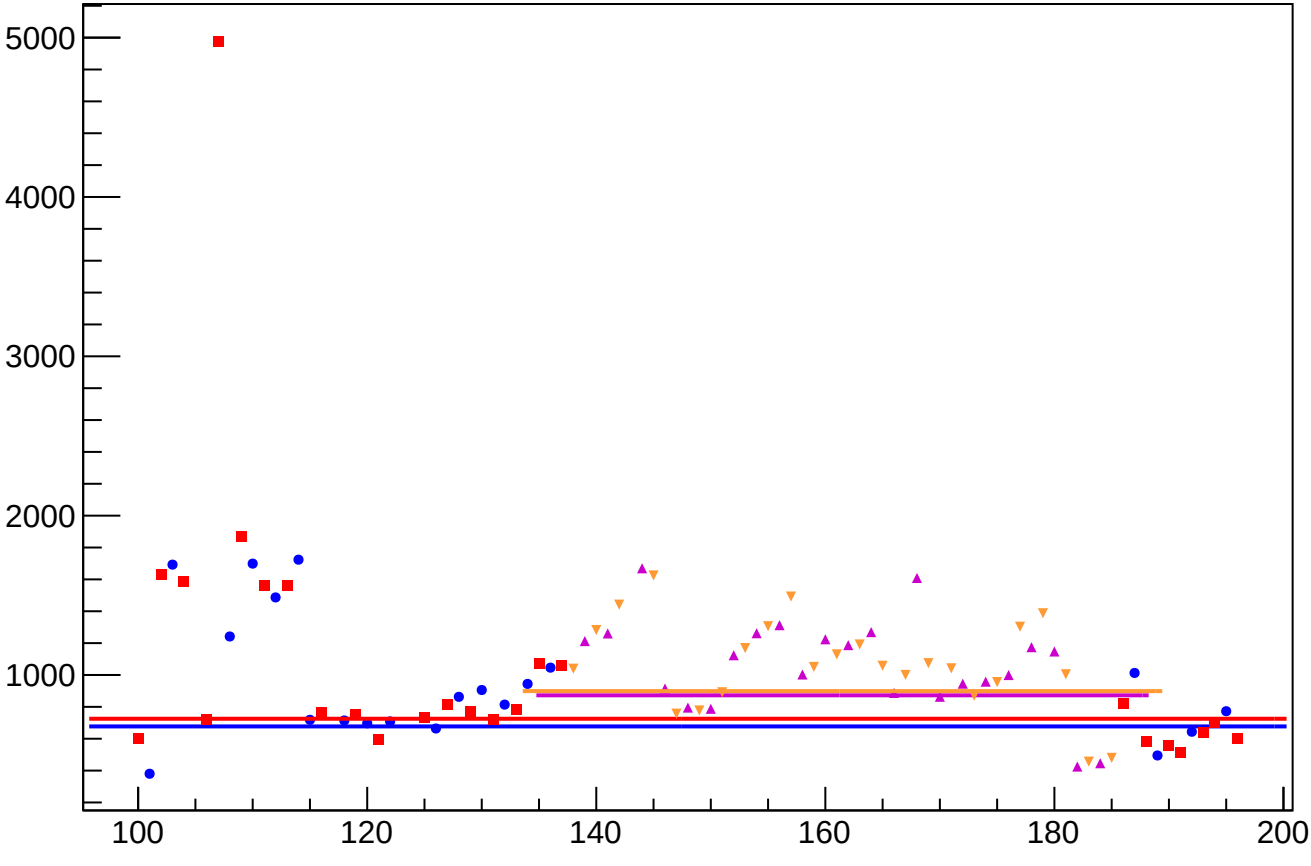
Right: -362.362+/-162.912 $\chi^2$/NDF: 55.6/44

In: -225.934+/-159.879 $\chi^2$/NDF:39.2/42

Out: -316.265+/-158.439 $\chi^2$/NDF:62.4/48

All: -271.508+/-112.539 $\chi^2$/NDF: 101.8/91

asym_usl_atl1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 677.219+/-0.166 $\chi^2$/NDF: 2653760.1/19

Left Out: 898.850+/-0.157 $\chi^2$/NDF:3791537.4/23

Right Out: 725.385+/-0.160 $\chi^2$/NDF: 2534429.6/24

Left In: 872.473+/-0.154 $\chi^2$/NDF:4435524.1/22

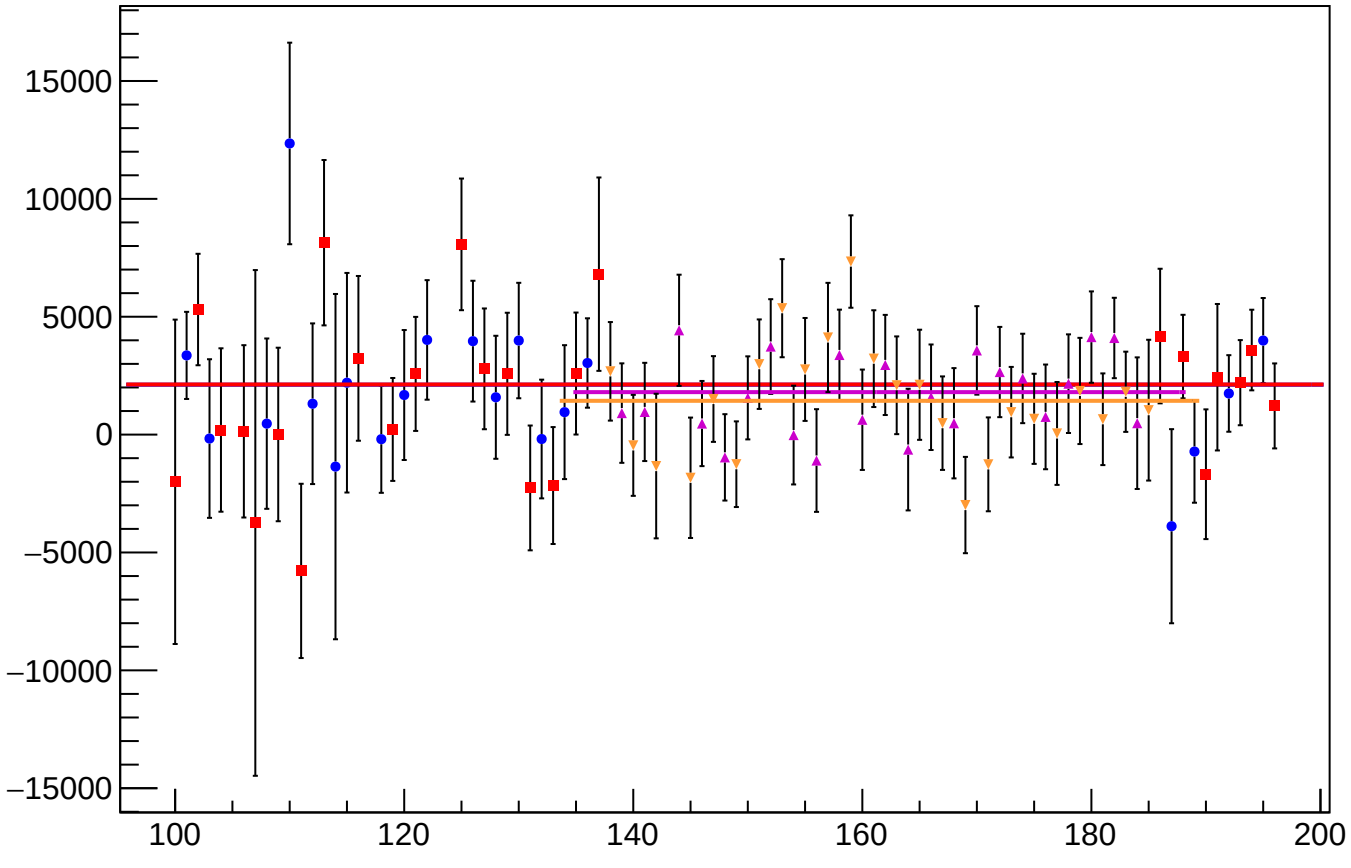
Left: 885.463+/-0.110 $\chi^2$/NDF: 8241417.9/46

Right: 702.155+/-0.115 $\chi^2$/NDF: 5231839.8/44

In: 781.779+/-0.113 $\chi^2$/NDF:7831264.6/42

Out: 813.908+/-0.112 $\chi^2$/NDF:6925051.0/48

All: 797.989+/-0.080 $\chi^2$/NDF: 14797066.2/91




Right In: 2116.599+/-565.497 $\chi^2$/NDF: 16.1/19

Left Out: 1433.314+/-424.465 $\chi^2$/NDF:29.4/23

Right Out: 2125.823+/-524.504 $\chi^2$/NDF: 27.4/24

Left In: 1801.543+/-426.483 $\chi^2$/NDF:15.3/22

Left: 1616.556+/-300.853 $\chi^2$/NDF: 45.1/46

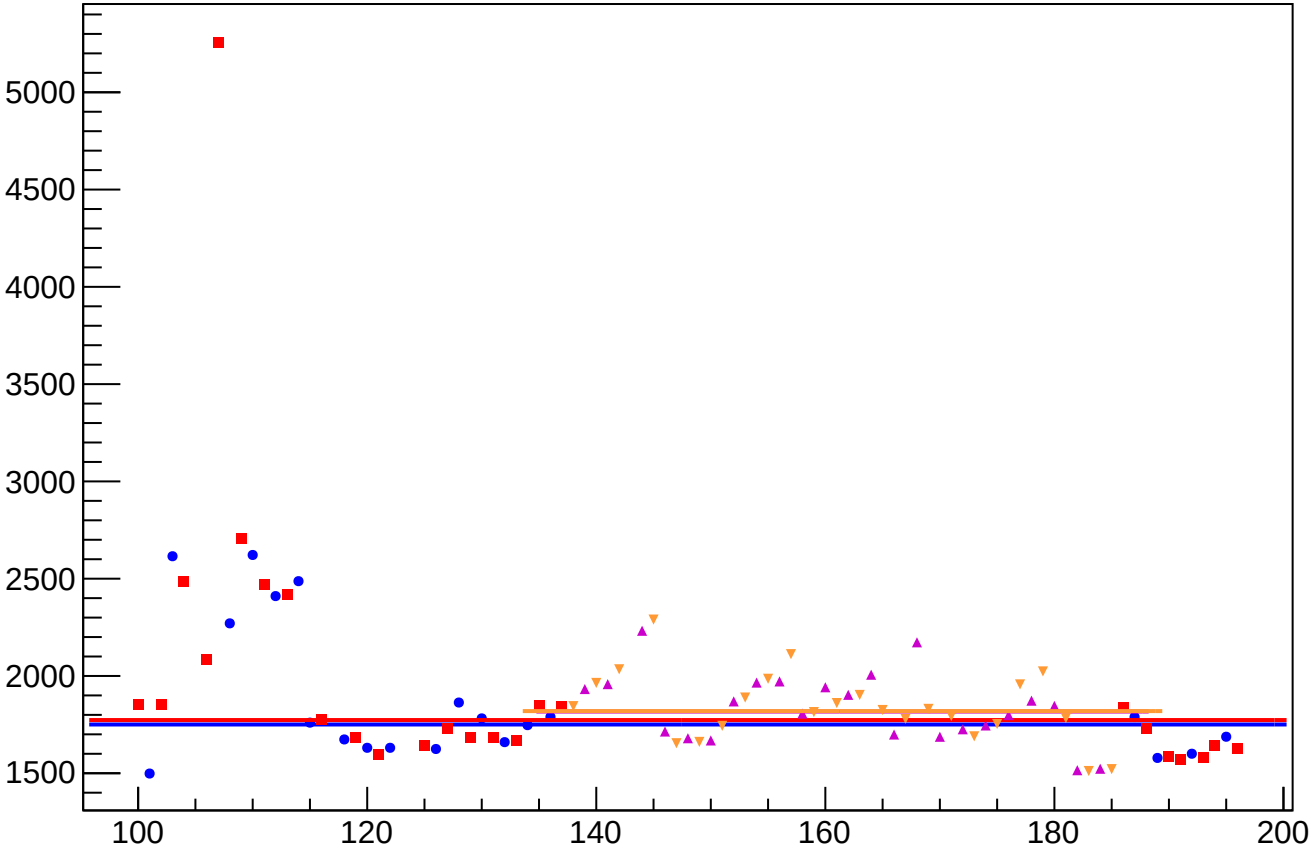
Right: 2121.557+/-384.557 $\chi^2$/NDF: 43.5/44

In: 1915.770+/-340.503 $\chi^2$/NDF:31.6/42

Out: 1707.368+/-329.954 $\chi^2$/NDF:57.8/48

All: 1808.291+/-236.954 $\chi^2$/NDF: 89.6/91

# asym_usl_atl1_avg_rms vs Slug, Sign Corrected




Right In: 1750.574+/-0.400 $\chi^2$/NDF: 444238.9/19

Left Out: 1819.417+/-0.300 $\chi^2$/NDF:295015.0/23

Right Out: 1773.438+/-0.371 $\chi^2$/NDF: 678035.6/24

Left In: 1817.142+/-0.302 $\chi^2$/NDF:307103.2/22

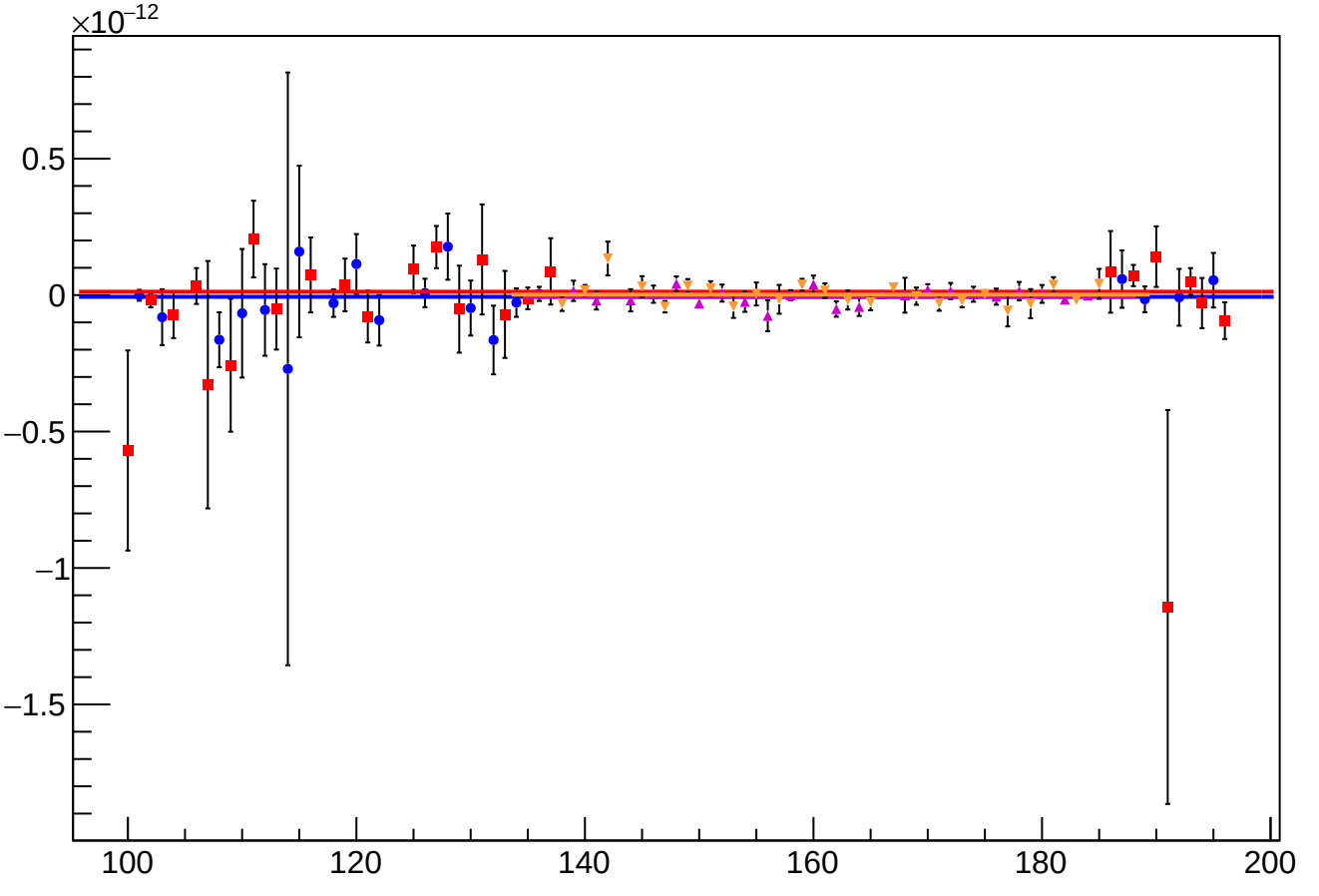
Left: 1818.285+/-0.213 $\chi^2$/NDF: 602146.8/46

Right: 1762.865+/-0.272 $\chi^2$/NDF: 1124032.0/44

In: 1793.007+/-0.241 $\chi^2$/NDF:769007.8/42

Out: 1801.222+/-0.233 $\chi^2$/NDF:982337.8/48

All: 1797.243+/-0.168 $\chi^2$/NDF: 1751945.9/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:29.3/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.8/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.9/22

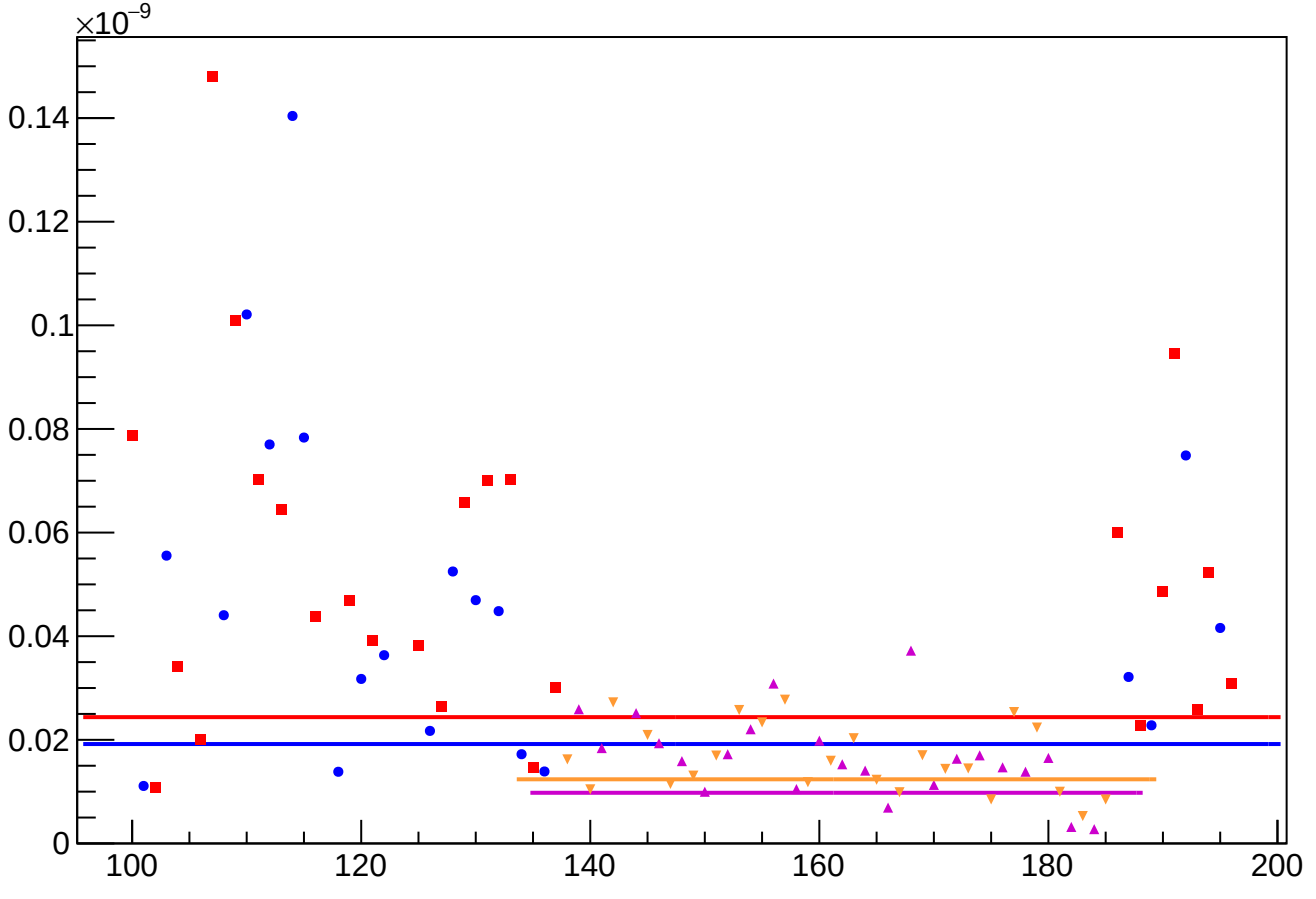
Left: -0.000+/-0.000 $\chi^2$/NDF: 48.5/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.8/44

In: -0.000+/-0.000 $\chi^2$/NDF:29.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:56.6/48

All: -0.000+/-0.000 $\chi^2$/NDF: 87.6/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2589902.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1898110.3/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2574197.7/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:4499862.2/22

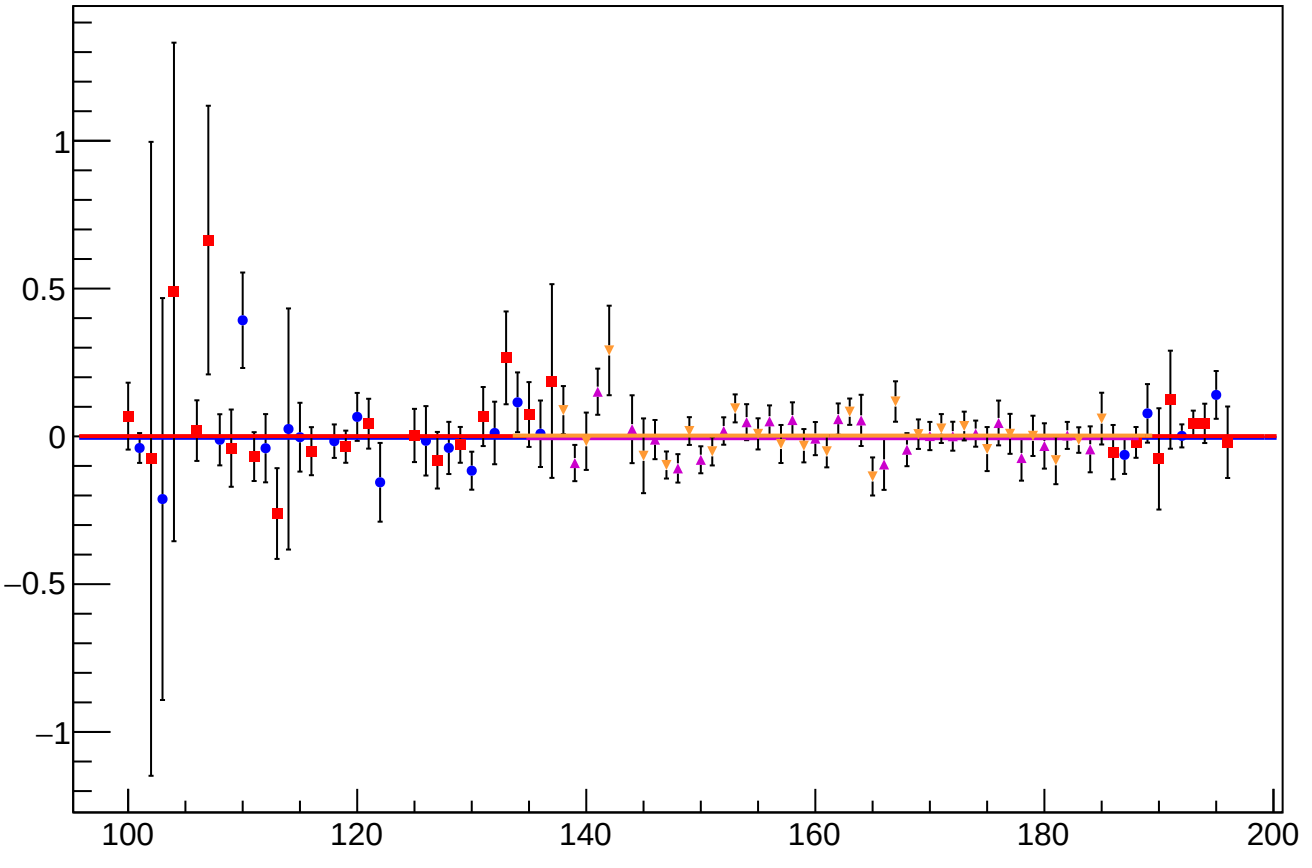
Left: 0.000+/-0.000 $\chi^2$/NDF: 6671683.2/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 5315709.9/44

In: 0.000+/-0.000 $\chi^2$/NDF:8102901.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:5722353.6/48

All: 0.000+/-0.000 $\chi^2$/NDF: 14212987.7/91




Right In: -0.005+/-0.018 $\chi^2$/NDF: 18.2/19

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.9/23

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 15.3/24

Left In: -0.006+/-0.012 $\chi^2$/NDF:21.6/22

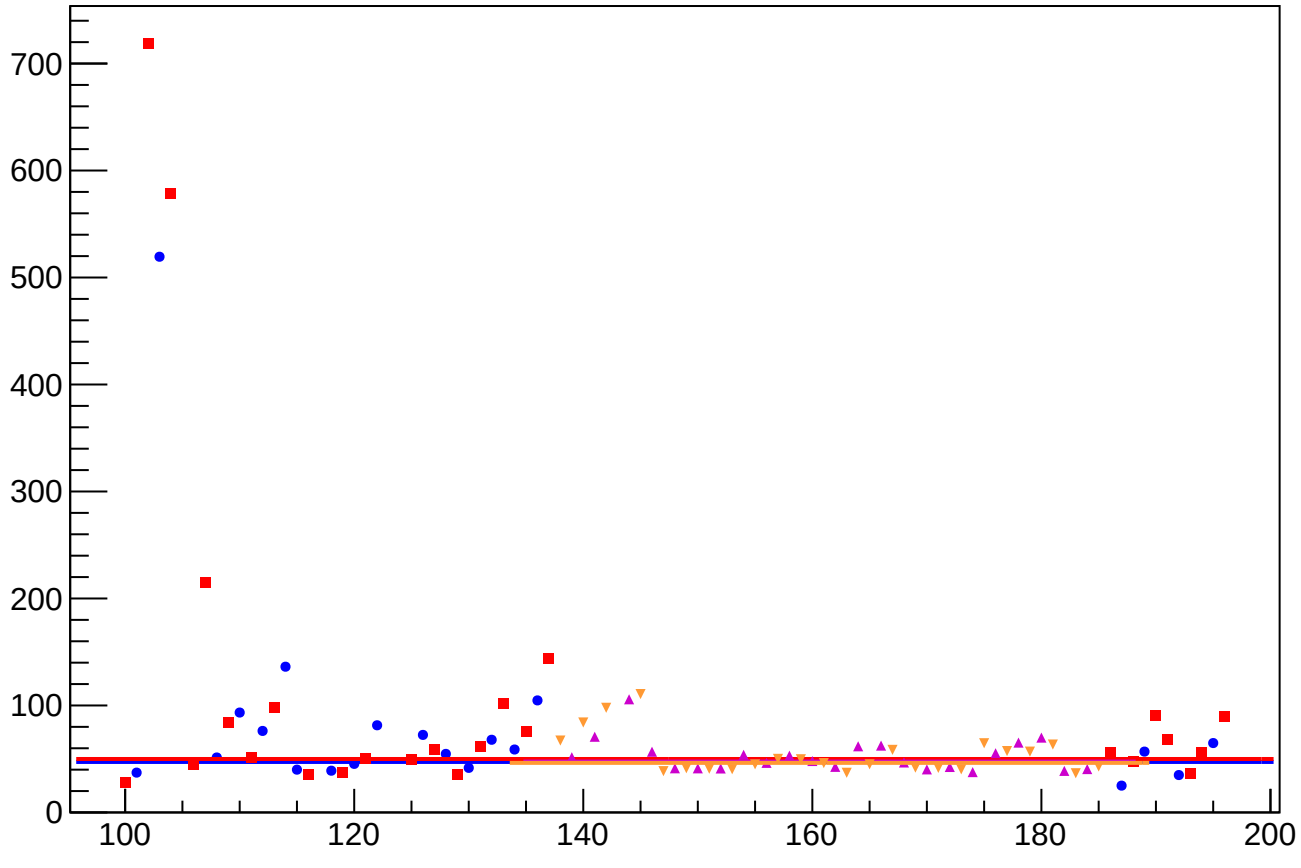
Left: -0.002+/-0.008 $\chi^2$/NDF: 51.8/46

Right: -0.002+/-0.013 $\chi^2$/NDF: 33.5/44

In: -0.006+/-0.010 $\chi^2$/NDF:39.8/42

Out: 0.002+/-0.010 $\chi^2$/NDF:45.2/48

All: -0.002+/-0.007 $\chi^2$/NDF: 85.3/91




Right In: 47.210+/-0.013 $\chi^2$/NDF: 2912190.3/19

Left Out: 46.353+/-0.008 $\chi^2$/NDF:1967753.2/23

Right Out: 49.976+/-0.013 $\chi^2$/NDF: 3634556.3/24

Left In: 47.575+/-0.009 $\chi^2$/NDF:1576196.2/22

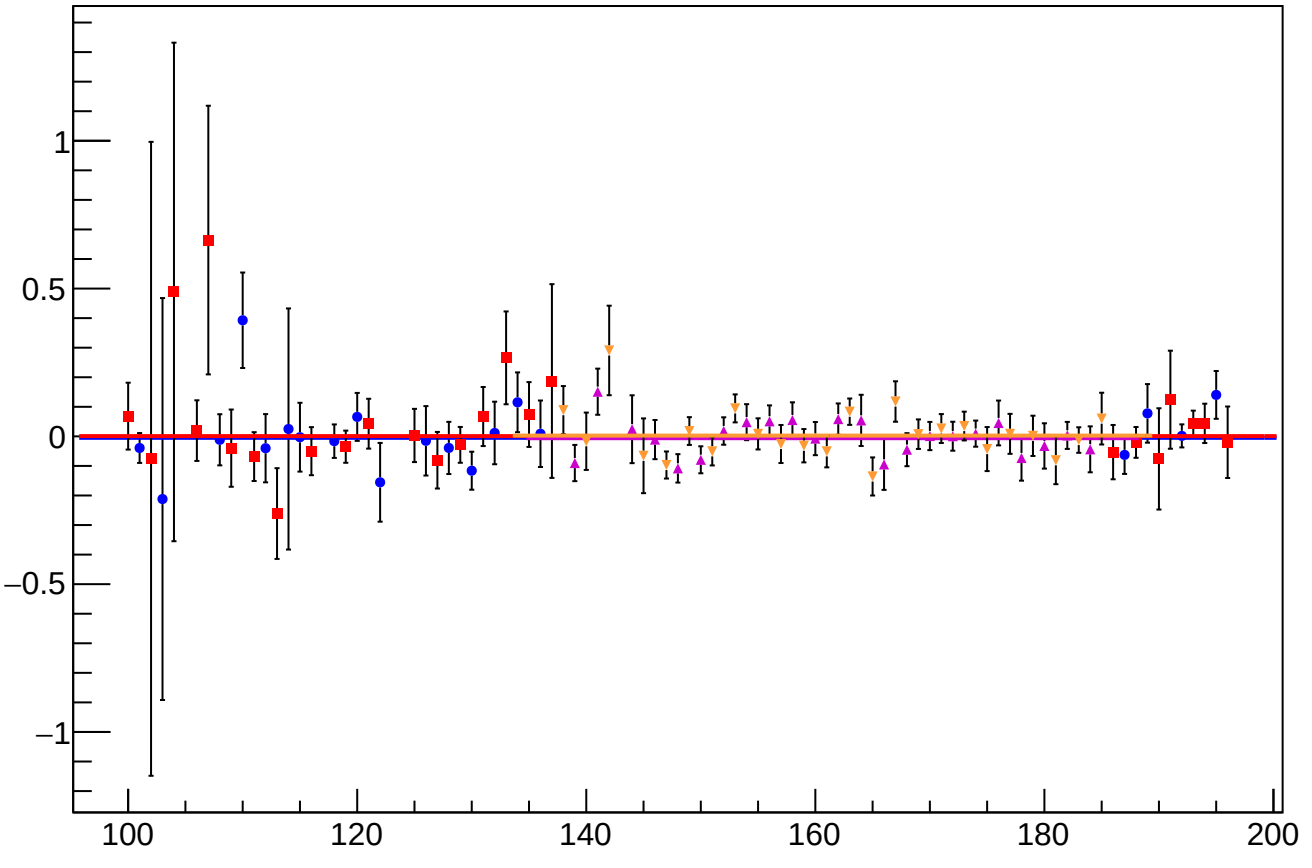
Left: 46.952+/-0.006 $\chi^2$/NDF: 3554287.7/46

Right: 48.608+/-0.009 $\chi^2$/NDF: 6570752.9/44

In: 47.461+/-0.007 $\chi^2$/NDF:4488953.5/42

Out: 47.476+/-0.007 $\chi^2$/NDF:5659779.0/48

All: 47.468+/-0.005 $\chi^2$/NDF: 10148734.8/91




Right In: -0.005+/-0.018 $\chi^2$/NDF: 18.2/19

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.9/23

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 15.3/24

Left In: -0.006+/-0.012 $\chi^2$/NDF:21.6/22

Left: -0.002+/-0.008 $\chi^2$/NDF: 51.8/46

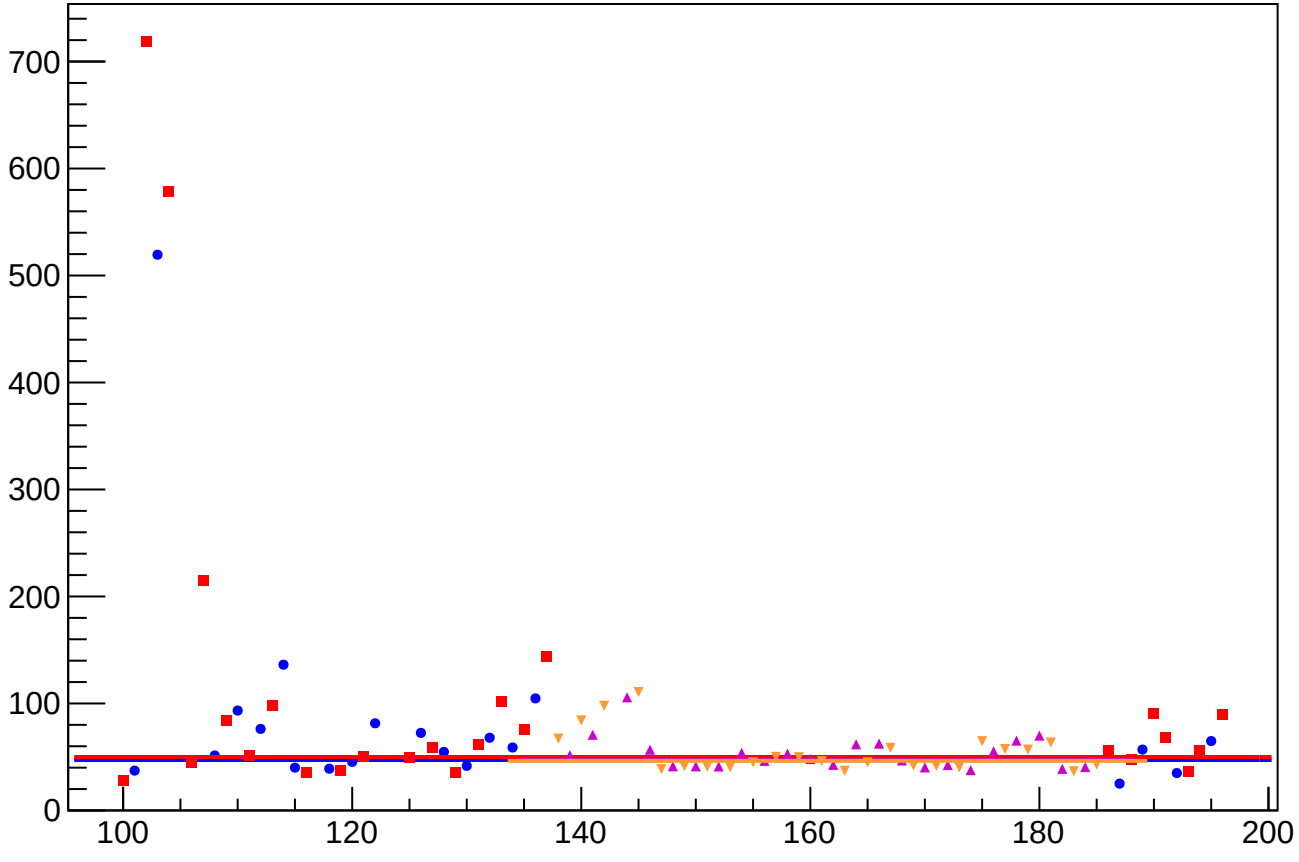
Right: -0.002+/-0.013 $\chi^2$/NDF: 33.5/44

In: -0.006+/-0.010 $\chi^2$/NDF:39.8/42

Out: 0.002+/-0.010 $\chi^2$/NDF:45.2/48

All: -0.002+/-0.007 $\chi^2$/NDF: 85.3/91

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 47.210+/-0.013 $\chi^2$/NDF: 2912190.3/19

Left Out: 46.353+/-0.008 $\chi^2$/NDF:1967753.2/23

Right Out: 49.976+/-0.013 $\chi^2$/NDF: 3634556.3/24

Left In: 47.575+/-0.009 $\chi^2$/NDF:1576196.2/22

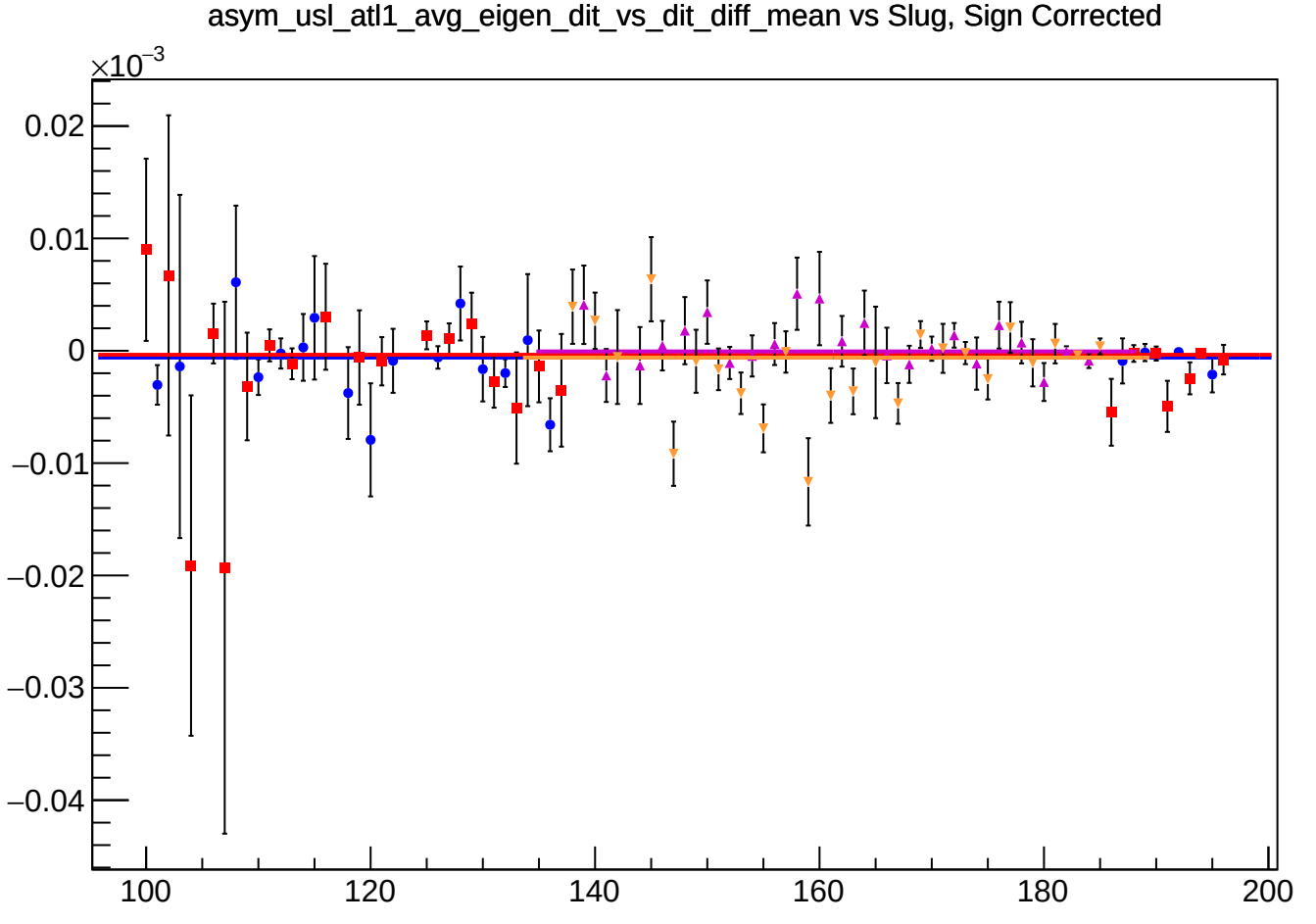
Left: 46.952+/-0.006 $\chi^2$/NDF: 3554287.7/46

Right: 48.608+/-0.009 $\chi^2$/NDF: 6570752.9/44

In: 47.461+/-0.007 $\chi^2$/NDF:4488953.5/42

Out: 47.476+/-0.007 $\chi^2$/NDF:5659779.0/48

All: 47.468+/-0.005 $\chi^2$/NDF: 10148734.8/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:54.0/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.8/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.9/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 73.8/46

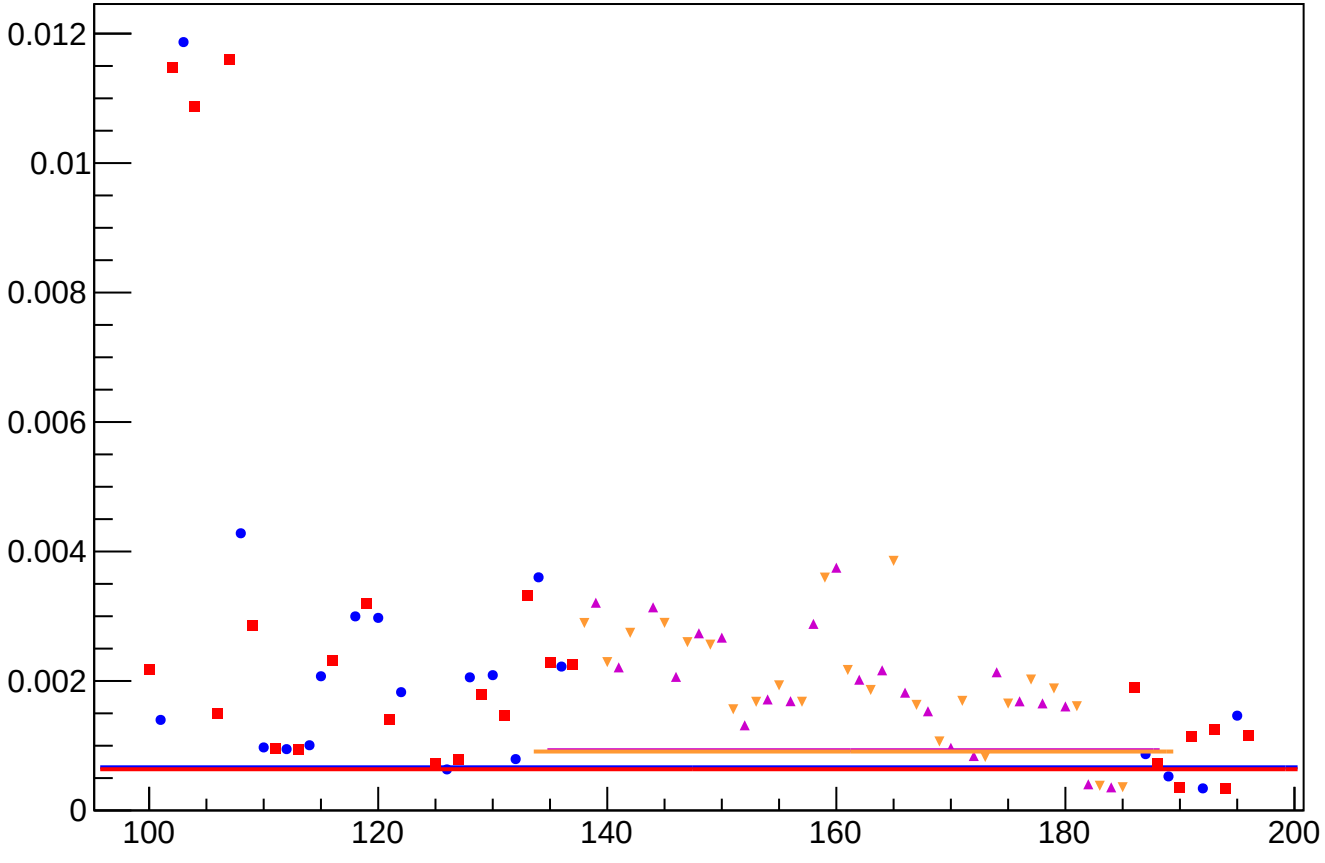
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.4/44

In: -0.000+/-0.000 $\chi^2$/NDF:39.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:76.2/48

All: -0.000+/-0.000 $\chi^2$/NDF: 116.3/91

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7803845.9/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:14137356.3/23

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9480939.0/24

Left In: 0.001+/-0.000 $\chi^2$/NDF:13690985.6/22

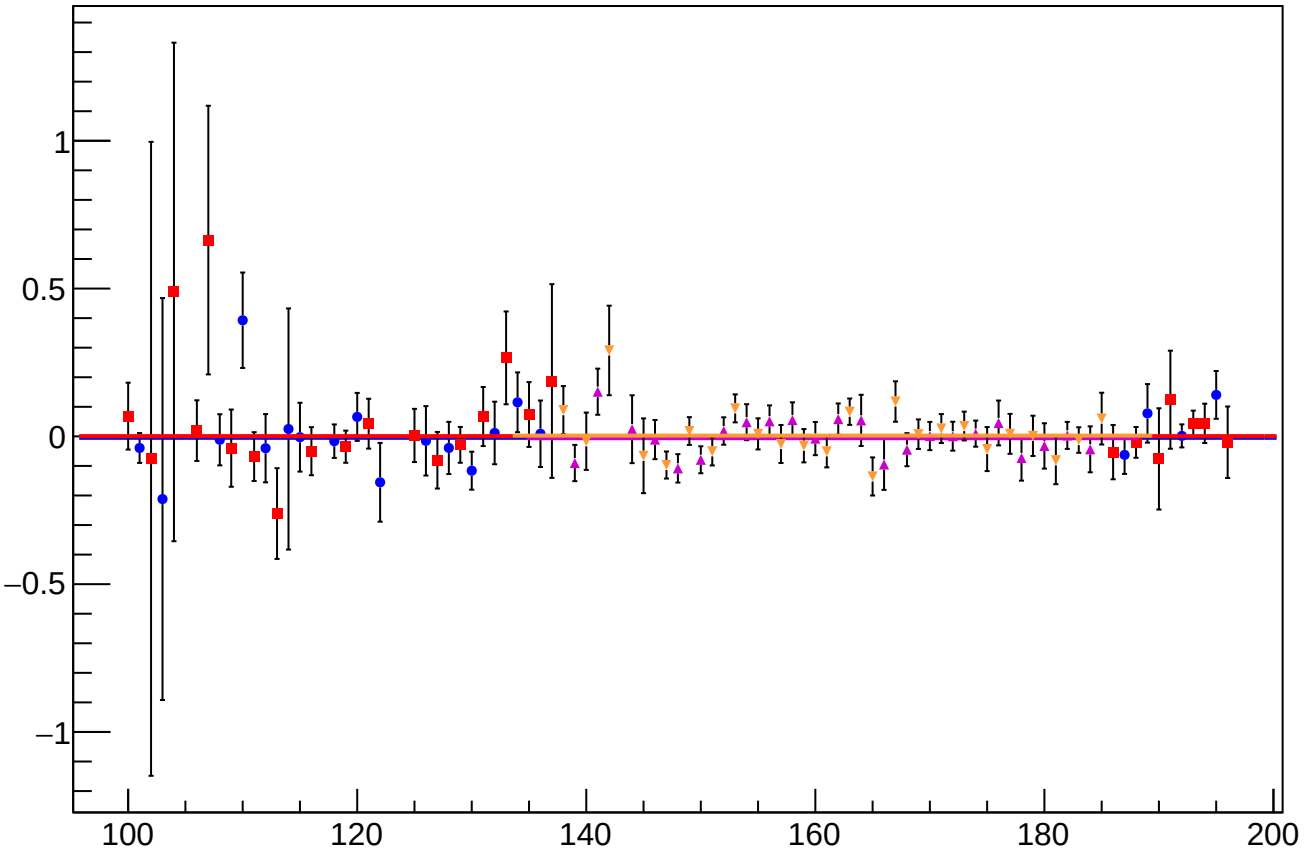
Left: 0.001+/-0.000 $\chi^2$/NDF: 27833708.7/46

Right: 0.001+/-0.000 $\chi^2$/NDF: 17296921.3/44

In: 0.001+/-0.000 $\chi^2$/NDF:22355071.8/42

Out: 0.001+/-0.000 $\chi^2$/NDF:24687114.7/48

All: 0.001+/-0.000 $\chi^2$/NDF: 47089269.8/91




Right In: -0.005+/-0.018 $\chi^2$/NDF: 18.2/19

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.9/23

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 15.3/24

Left In: -0.006+/-0.012 $\chi^2$/NDF:21.6/22

Left: -0.002+/-0.008 $\chi^2$/NDF: 51.8/46

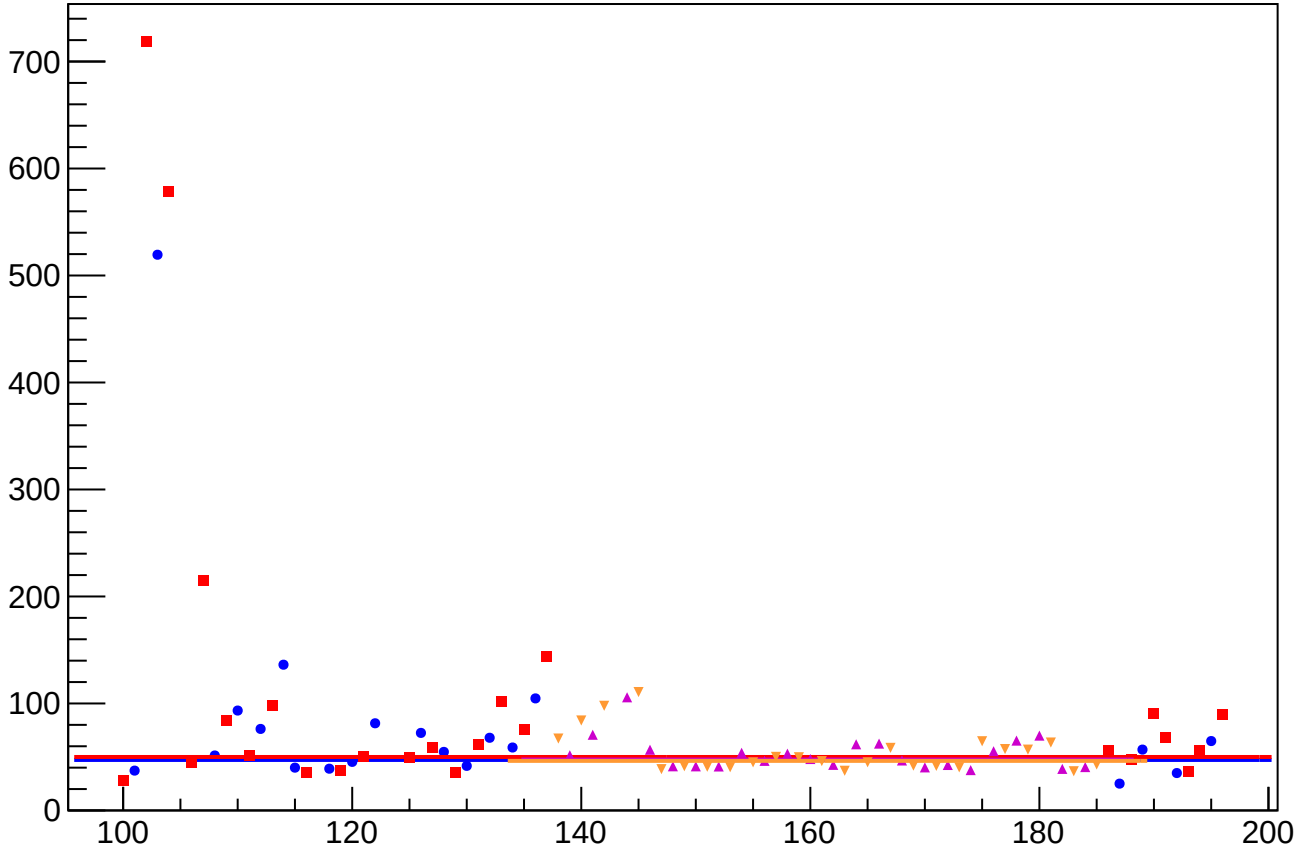
Right: -0.002+/-0.013 $\chi^2$/NDF: 33.5/44

In: -0.006+/-0.010 $\chi^2$/NDF:39.8/42

Out: 0.002+/-0.010 $\chi^2$/NDF:45.2/48

All: -0.002+/-0.007 $\chi^2$/NDF: 85.3/91

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 47.210+/-0.013 $\chi^2$/NDF: 2912190.6/19

Left Out: 46.354+/-0.008 $\chi^2$/NDF:1967741.3/23

Right Out: 49.976+/-0.013 $\chi^2$/NDF: 3634559.4/24

Left In: 47.575+/-0.009 $\chi^2$/NDF:1576204.5/22

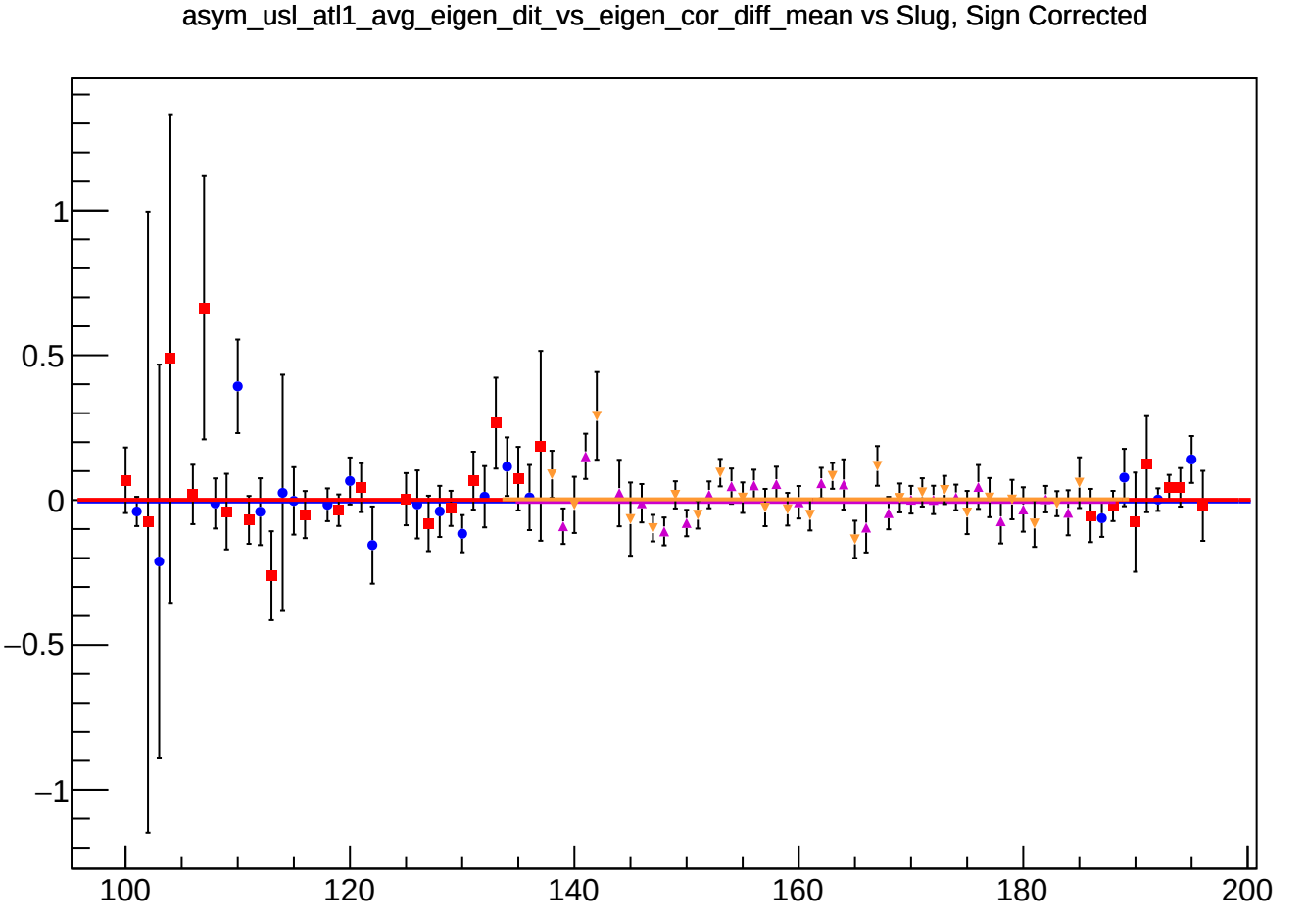
Left: 46.952+/-0.006 $\chi^2$/NDF: 3554282.4/46

Right: 48.608+/-0.009 $\chi^2$/NDF: 6570753.4/44

In: 47.461+/-0.007 $\chi^2$/NDF:4488962.6/42

Out: 47.476+/-0.007 $\chi^2$/NDF:5659757.1/48

All: 47.468+/-0.005 $\chi^2$/NDF: 10148722.0/91




Right In: -0.005+/-0.018 $\chi^2$/NDF: 18.2/19

Left Out: 0.003+/-0.012 $\chi^2$/NDF:29.9/23

Right Out: 0.001+/-0.018 $\chi^2$/NDF: 15.3/24

Left In: -0.006+/-0.012 $\chi^2$/NDF:21.6/22

Left: -0.002+/-0.008 $\chi^2$/NDF: 51.8/46

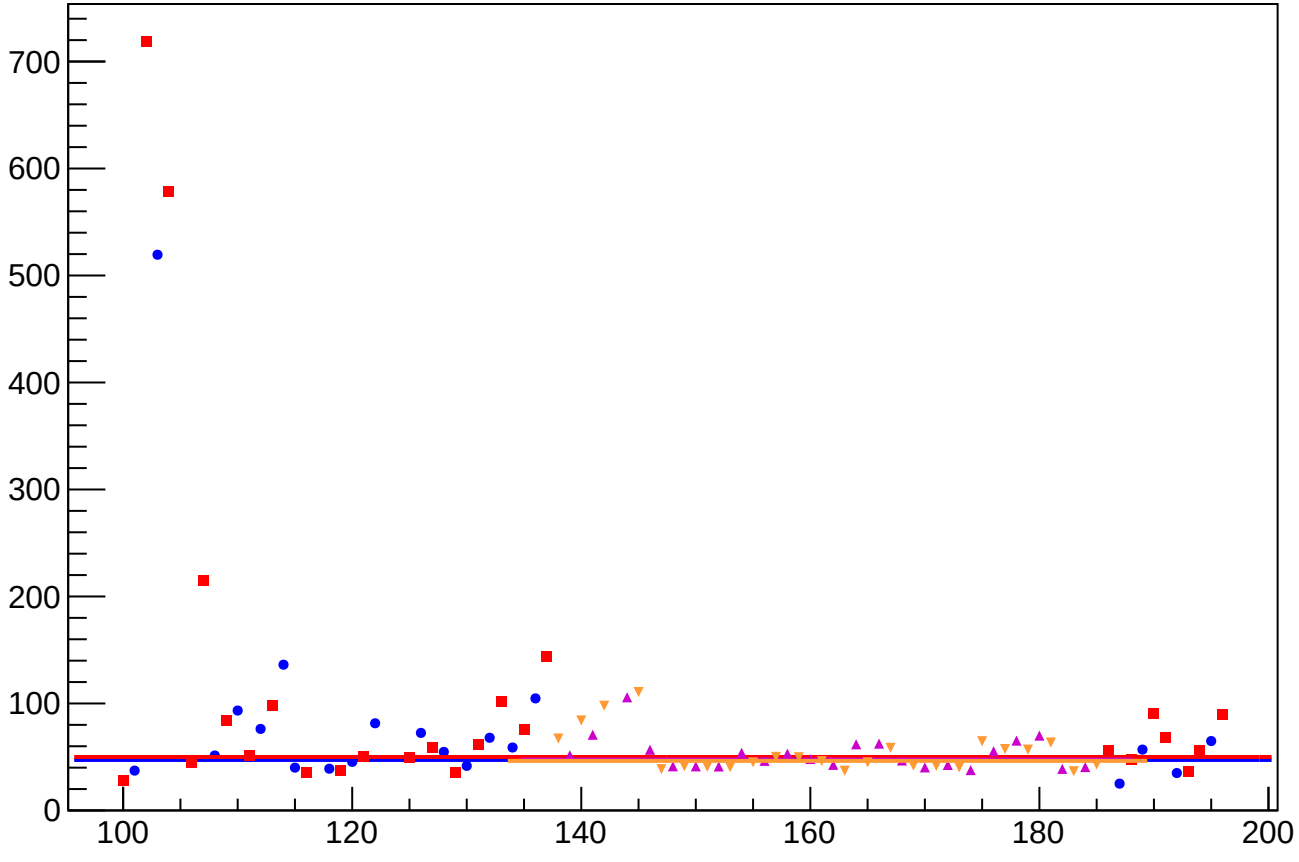
Right: -0.002+/-0.013 $\chi^2$/NDF: 33.5/44

In: -0.006+/-0.010 $\chi^2$/NDF:39.8/42

Out: 0.002+/-0.010 $\chi^2$/NDF:45.2/48

All: -0.002+/-0.007 $\chi^2$/NDF: 85.3/91

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 47.210+/-0.013 $\chi^2$/NDF: 2912190.6/19

Left Out: 46.354+/-0.008 $\chi^2$/NDF:1967741.3/23

Right Out: 49.976+/-0.013 $\chi^2$/NDF: 3634559.4/24

Left In: 47.575+/-0.009 $\chi^2$/NDF:1576204.5/22

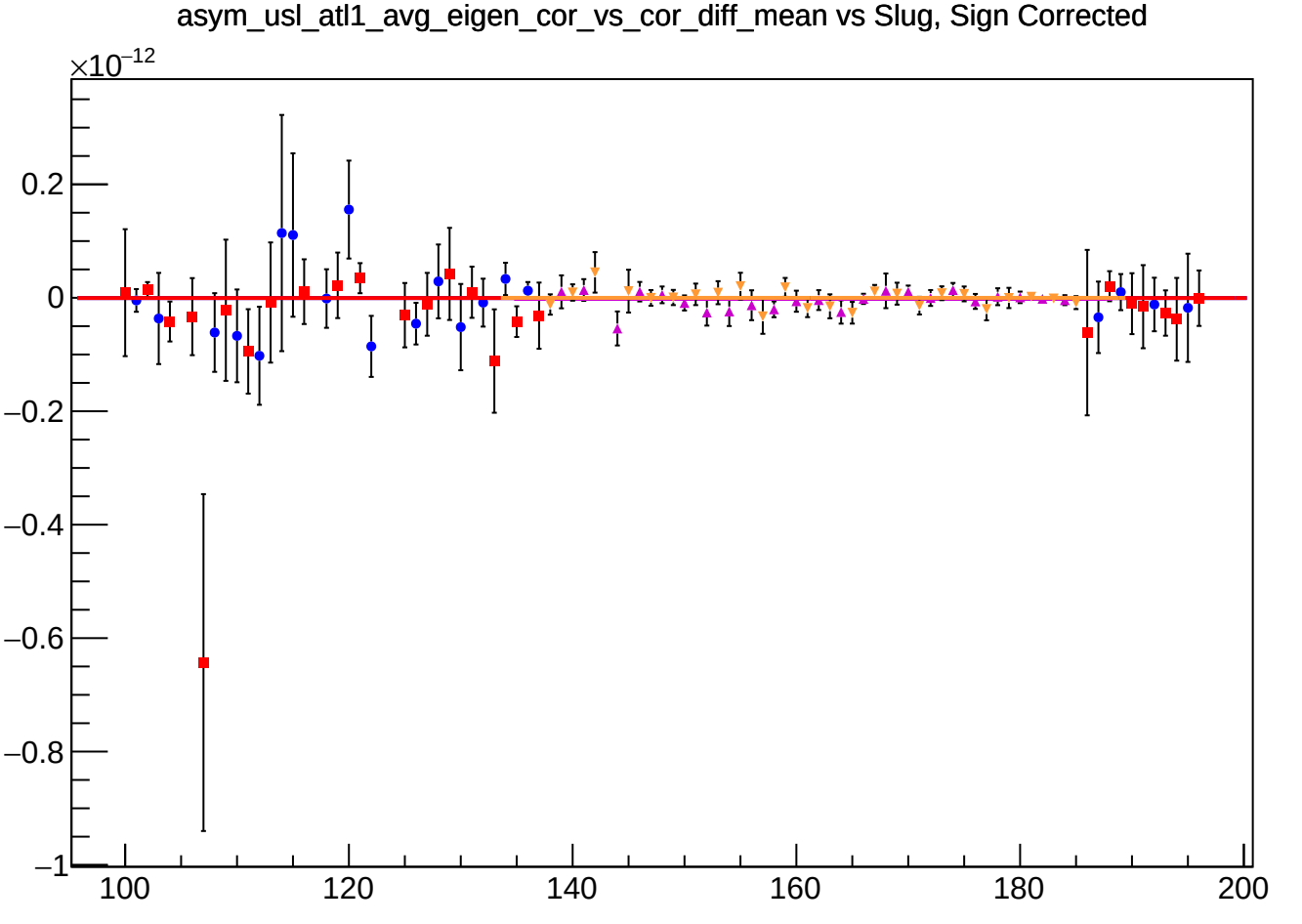
Left: 46.952+/-0.006 $\chi^2$/NDF: 3554282.4/46

Right: 48.608+/-0.009 $\chi^2$/NDF: 6570753.4/44

In: 47.461+/-0.007 $\chi^2$/NDF:4488962.6/42

Out: 47.476+/-0.007 $\chi^2$/NDF:5659757.1/48

All: 47.468+/-0.005 $\chi^2$/NDF: 10148722.0/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.9/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.6/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.4/22

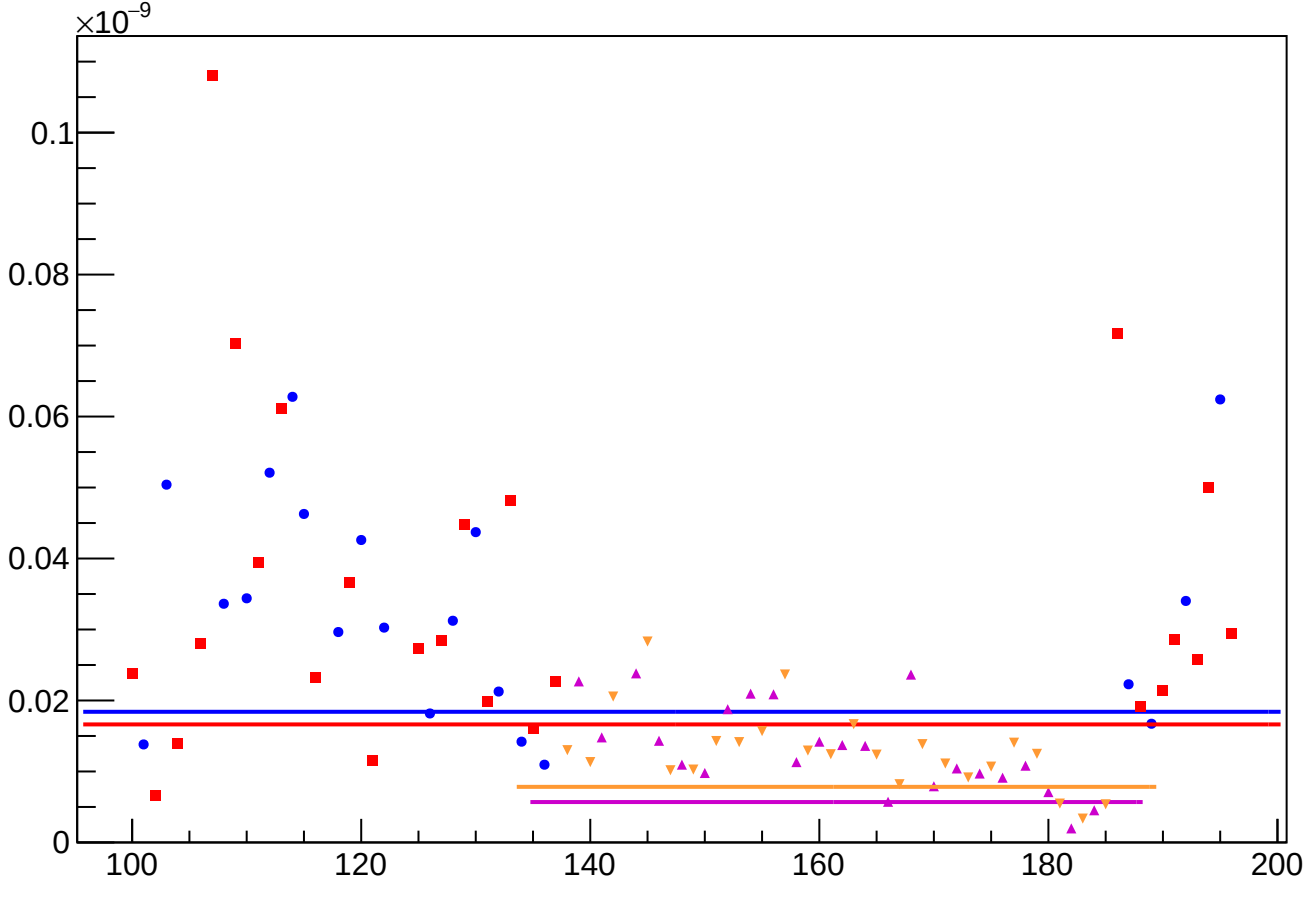
Left: -0.000+/-0.000 $\chi^2$/NDF: 27.5/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 32.2/44

In: -0.000+/-0.000 $\chi^2$/NDF:27.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:31.5/48

All: -0.000+/-0.000 $\chi^2$/NDF: 59.7/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2903902.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6422392.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4409902.9/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:11199324.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 18452669.5/46

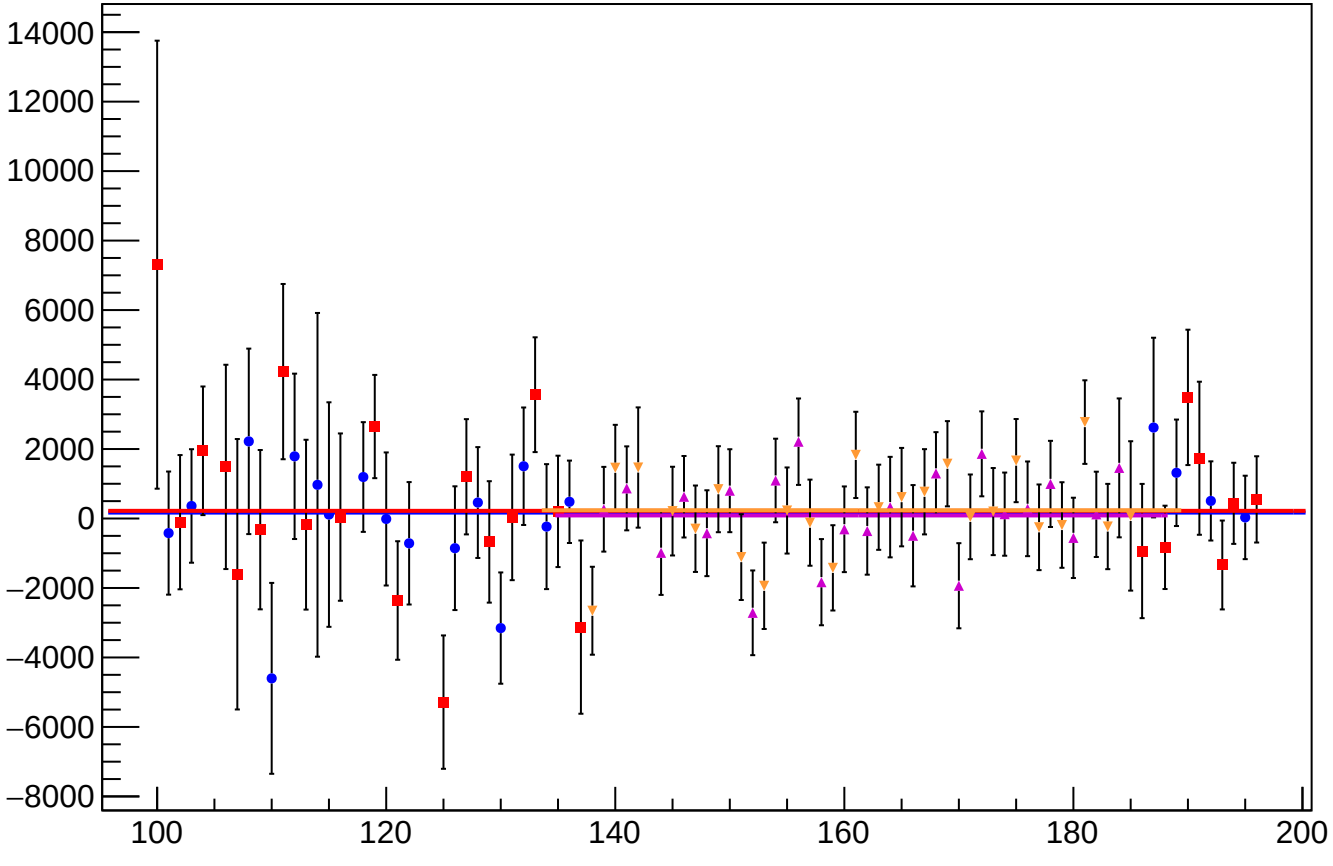
Right: 0.000+/-0.000 $\chi^2$/NDF: 7359090.2/44

In: 0.000+/-0.000 $\chi^2$/NDF:18111597.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13038530.8/48

All: 0.000+/-0.000 $\chi^2$/NDF: 32141375.8/91

# reg_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: 170.439+/-384.033 $\chi^2$/NDF: 11.9/19

Left Out: 236.601+/-259.669 $\chi^2$/NDF:22.7/23

Right Out: 220.378+/-356.710 $\chi^2$/NDF: 30.8/24

Left In: 88.380+/-261.602 $\chi^2$/NDF:20.9/22

Left: 163.040+/-184.293 $\chi^2$/NDF: 43.8/46

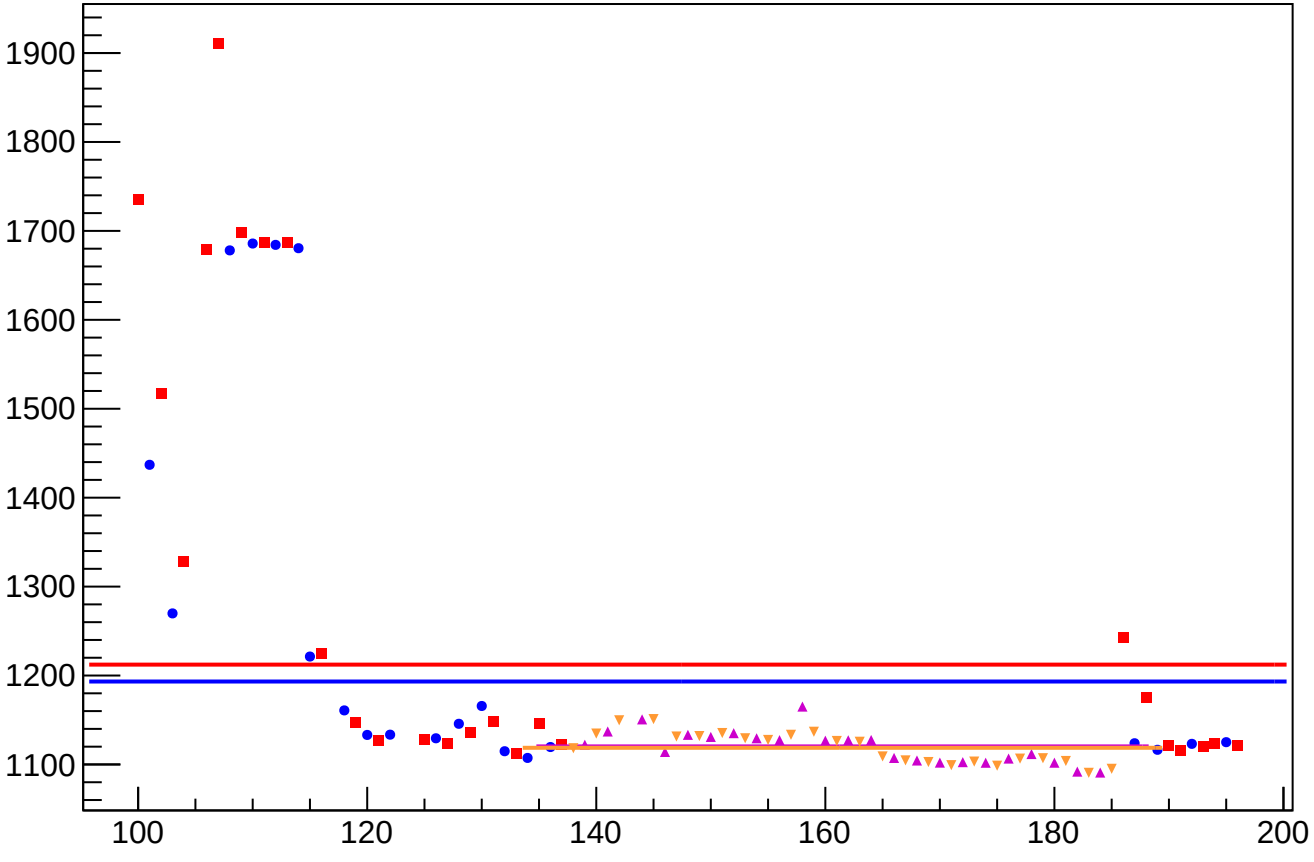
Right: 197.248+/-261.358 $\chi^2$/NDF: 42.7/44

In: 114.389+/-216.205 $\chi^2$/NDF:32.8/42

Out: 230.982+/-209.935 $\chi^2$/NDF:53.5/48

All: 174.401+/-150.615 $\chi^2$/NDF: 86.5/91

# reg_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1193.268+/-0.272 $\chi^2$/NDF: 324230.8/19

Left Out: 1118.733+/-0.184 $\chi^2$/NDF:8205.0/23

Right Out: 1212.263+/-0.252 $\chi^2$/NDF: 502422.7/24

Left In: 1120.308+/-0.185 $\chi^2$/NDF:9479.7/22

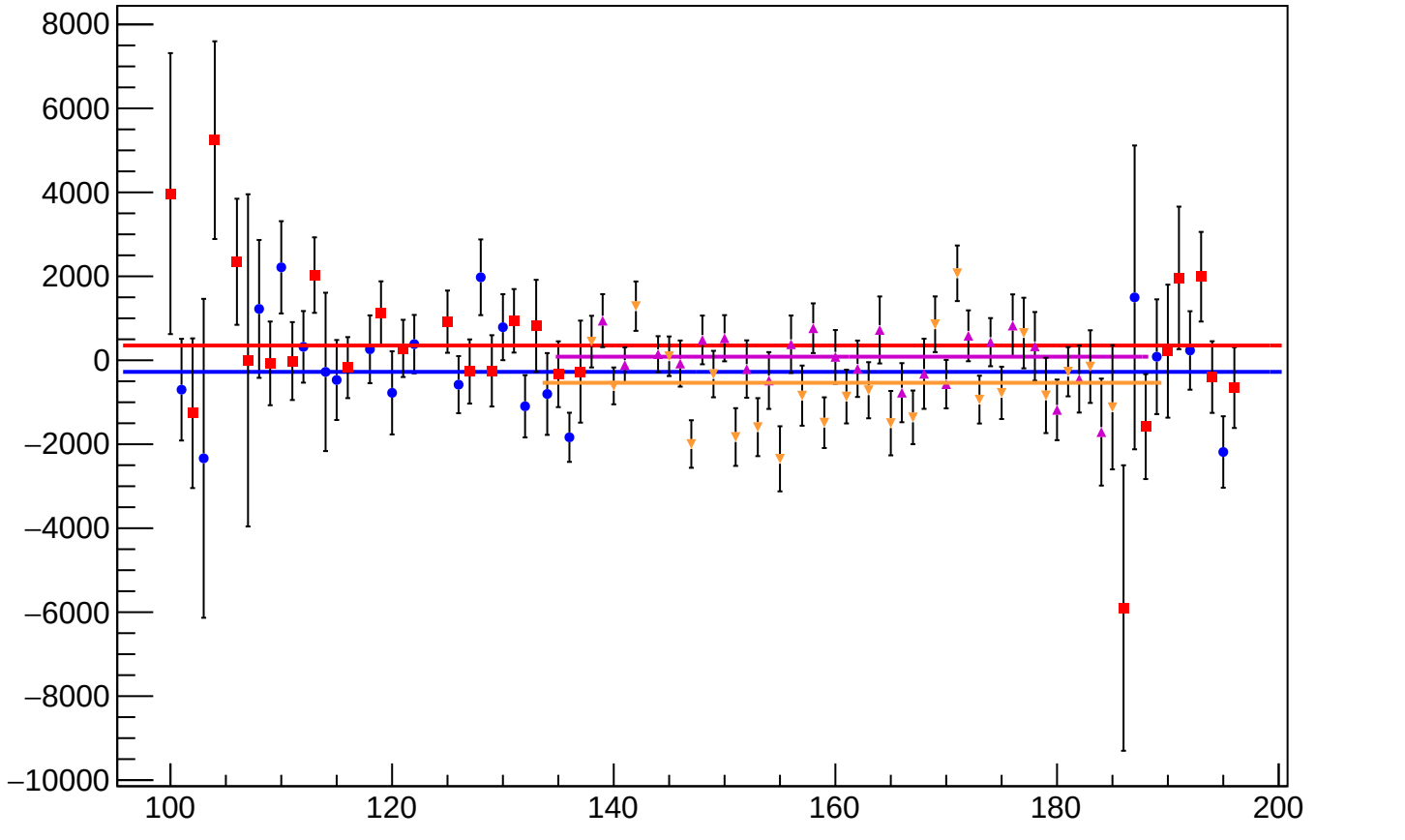
Left: 1119.515+/-0.130 $\chi^2$/NDF: 17721.2/46

Right: 1203.465+/-0.185 $\chi^2$/NDF: 829280.3/44

In: 1143.433+/-0.153 $\chi^2$/NDF:383017.0/42

Out: 1151.129+/-0.148 $\chi^2$/NDF:600501.2/48

All: 1147.394+/-0.107 $\chi^2$/NDF: 984822.6/91




Right In: -276.243+/-207.300 $\chi^2$/NDF: 31.0/19

Left Out: -535.899+/-130.646 $\chi^2$/NDF:61.6/23

Right Out: 352.542+/-200.500 $\chi^2$/NDF: 27.9/24

Left In: 85.254+/-130.966 $\chi^2$/NDF:17.1/22

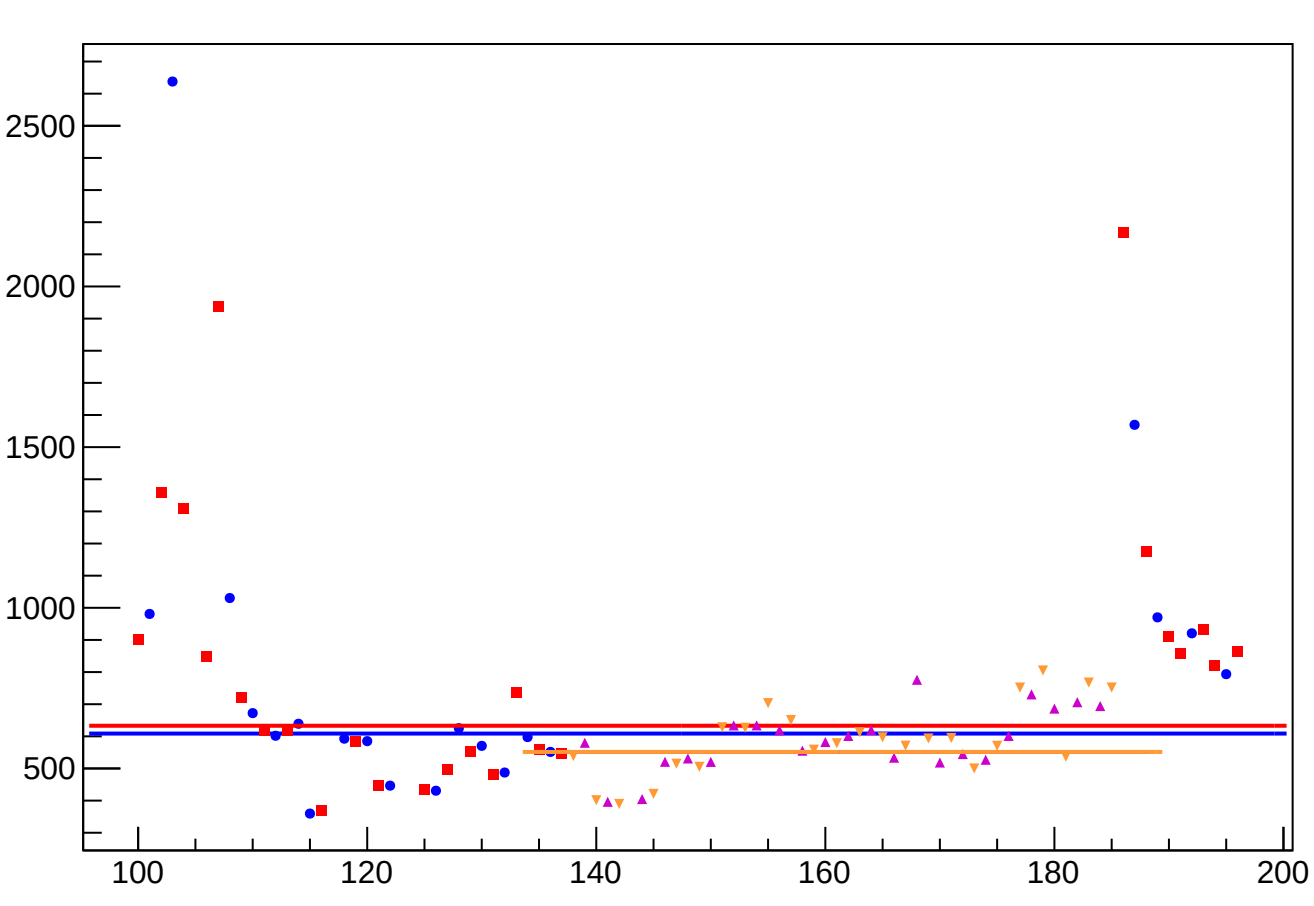
Left: -226.082+/-92.494 $\chi^2$/NDF: 90.0/46

Right: 48.633+/-144.119 $\chi^2$/NDF: 63.7/44

In: -17.870+/-110.721 $\chi^2$/NDF:50.3/42

Out: -271.107+/-109.459 $\chi^2$/NDF:103.2/48

All: -145.939+/-77.841 $\chi^2$/NDF: 156.2/91




Right In: 608.637+/-0.147 $\chi^2$/NDF: 1959498.3/19

Left Out: 551.440+/-0.092 $\chi^2$/NDF:1226616.4/23

Right Out: 632.968+/-0.142 $\chi^2$/NDF: 2810466.6/24

Left In: 551.336+/-0.093 $\chi^2$/NDF:1061764.2/22

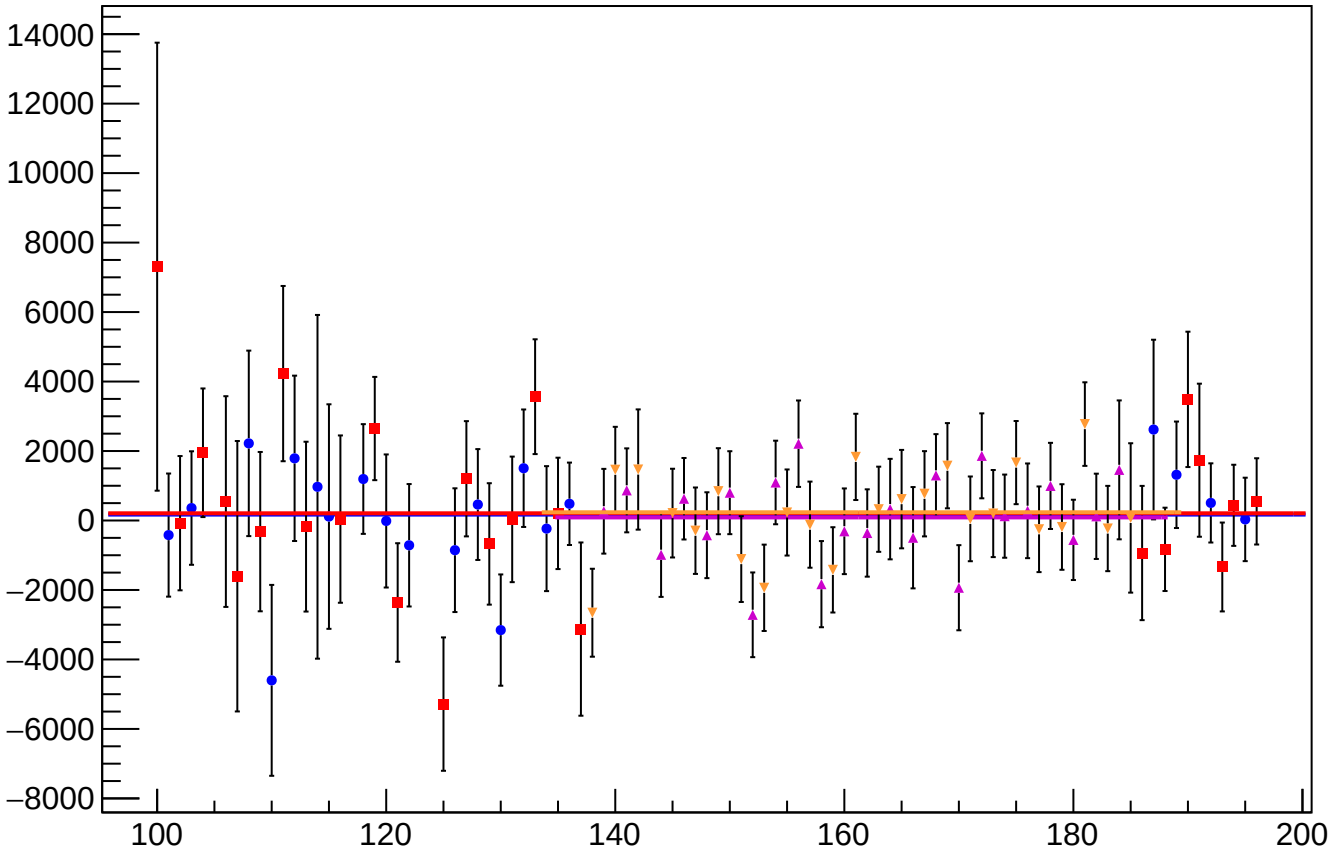
Left: 551.388+/-0.065 $\chi^2$/NDF: 2288381.2/46

Right: 621.208+/-0.102 $\chi^2$/NDF: 4784200.6/44

In: 567.682+/-0.078 $\chi^2$/NDF:3130479.9/42

Out: 575.739+/-0.077 $\chi^2$/NDF:4269213.1/48

All: 571.757+/-0.055 $\chi^2$/NDF: 7405048.2/91




Right In: 170.276+/-384.033 $\chi^2$/NDF: 11.9/19

Left Out: 236.642+/-259.669 $\chi^2$/NDF:22.7/23

Right Out: 207.300+/-356.869 $\chi^2$/NDF: 30.6/24

Left In: 88.370+/-261.602 $\chi^2$/NDF:20.9/22

Left: 163.056+/-184.293 $\chi^2$/NDF: 43.8/46

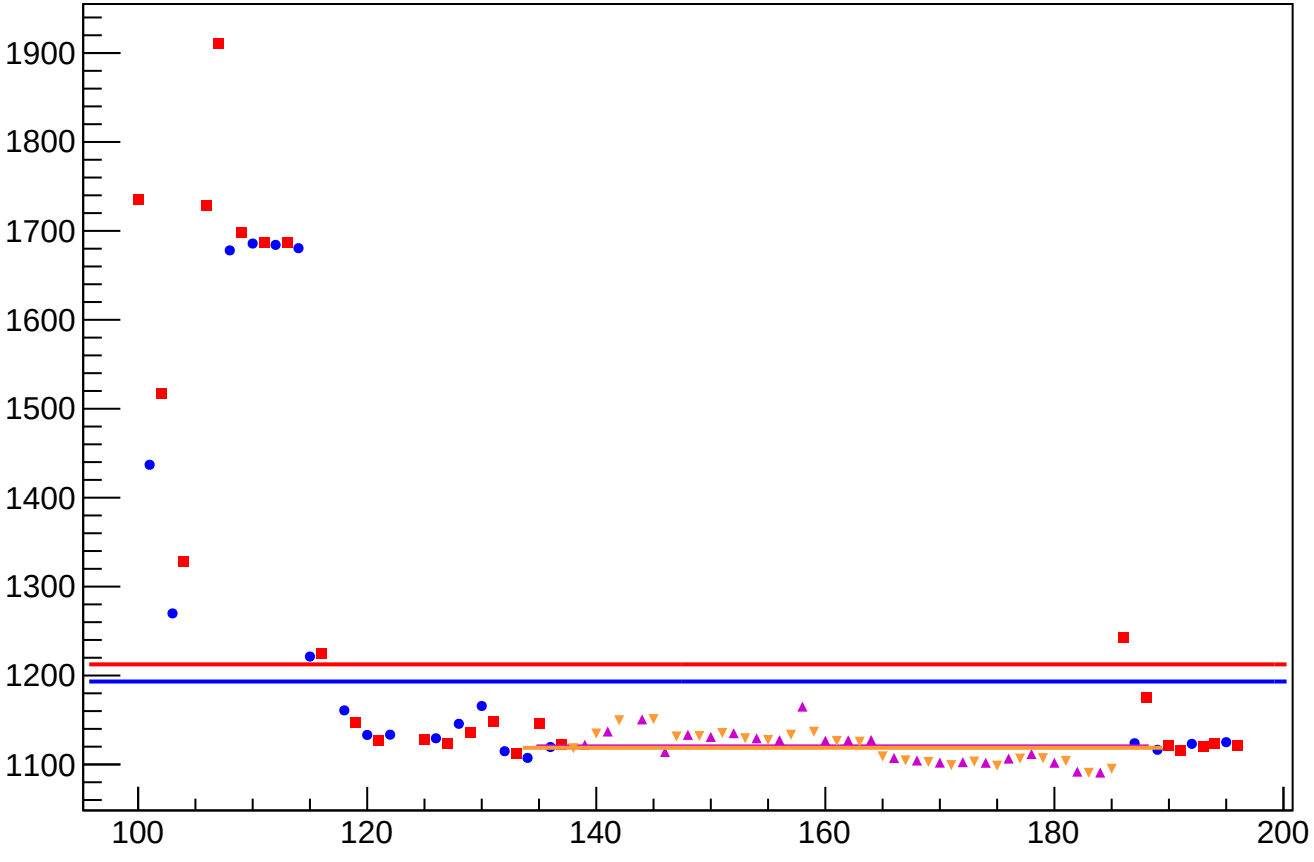
Right: 190.144+/-261.421 $\chi^2$/NDF: 42.5/44

In: 114.330+/-216.205 $\chi^2$/NDF:32.8/42

Out: 226.485+/-209.968 $\chi^2$/NDF:53.4/48

All: 172.049+/-150.627 $\chi^2$/NDF: 86.3/91

# cor_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1193.268+/-0.272 $\chi^2$/NDF: 324230.9/19

Left Out: 1118.733+/-0.184 $\chi^2$/NDF:8205.0/23

Right Out: 1212.543+/-0.252 $\chi^2$/NDF: 510082.9/24

Left In: 1120.308+/-0.185 $\chi^2$/NDF:9479.7/22

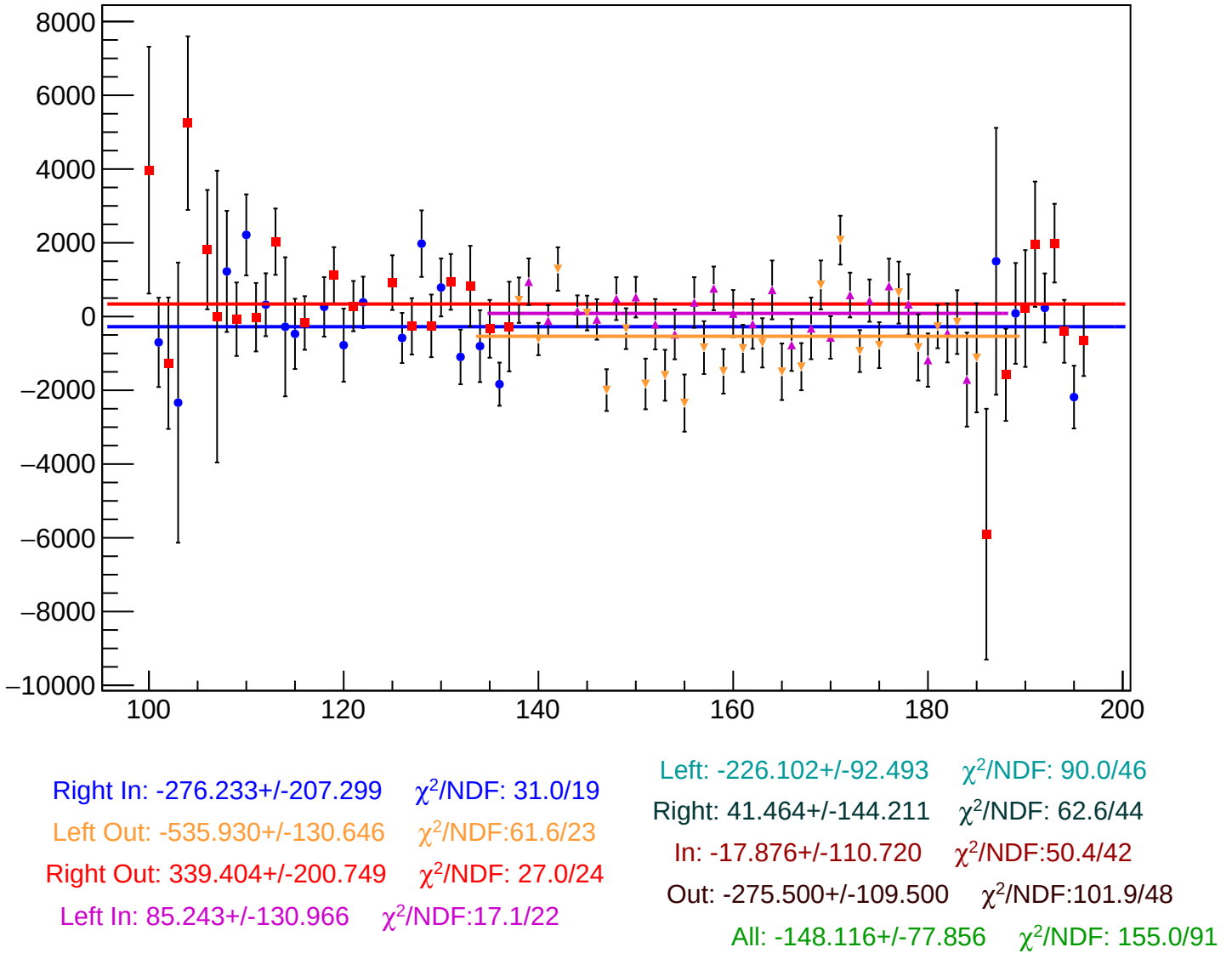
Left: 1119.515+/-0.130 $\chi^2$/NDF: 17721.2/46

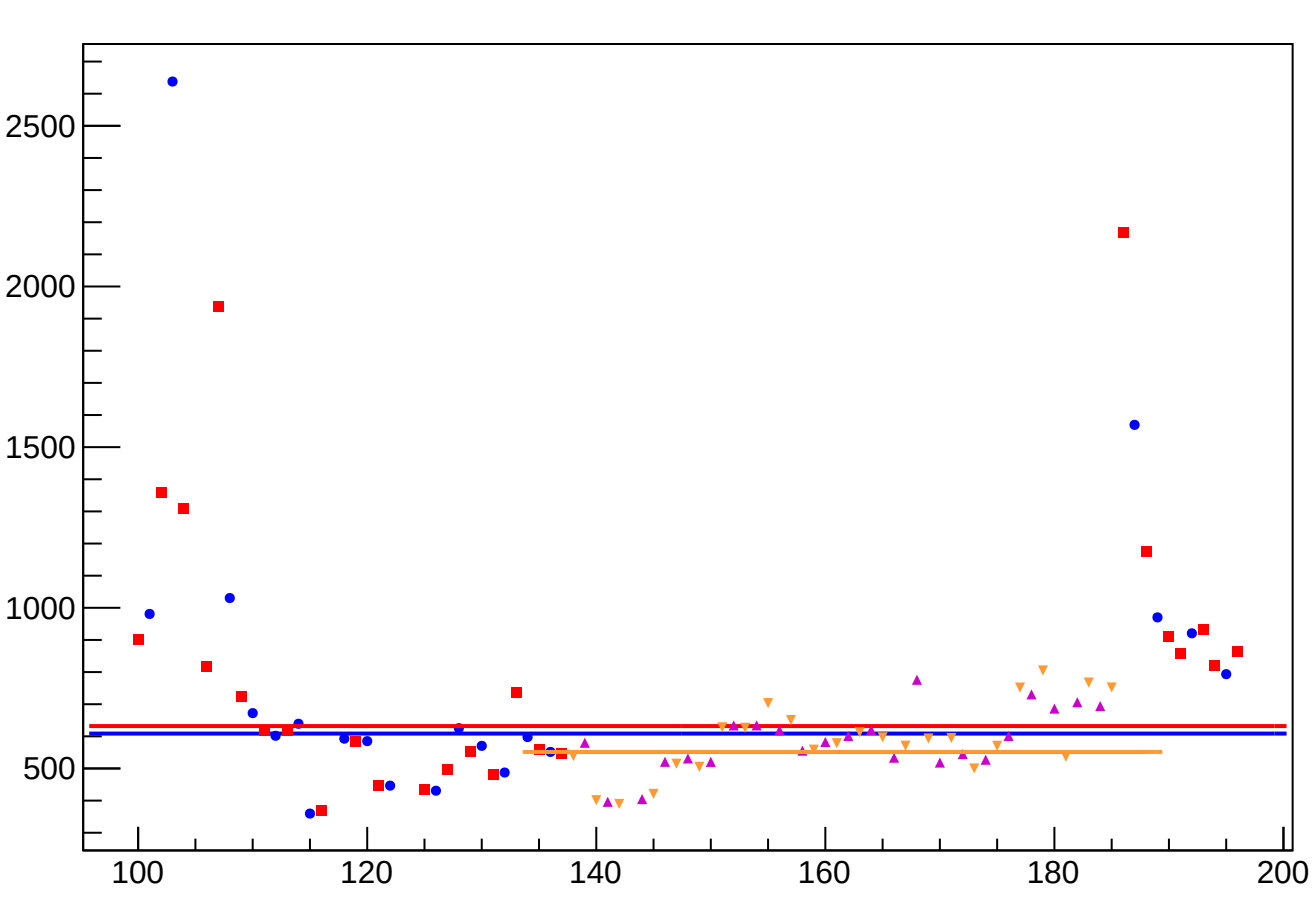
Right: 1203.611+/-0.185 $\chi^2$/NDF: 837017.6/44

In: 1143.433+/-0.153 $\chi^2$/NDF:383017.1/42

Out: 1151.207+/-0.148 $\chi^2$/NDF:608648.2/48

All: 1147.434+/-0.107 $\chi^2$/NDF: 992996.1/91


asym_usl_atl1_dd_cor_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
100
120
140
160
180
200
Right In: -276.233+/-207.299 χ²/NDF: 31.0/19
Left Out: -535.930+/-130.646 χ²/NDF:61.6/23
Right Out: 339.404+/-200.749 χ²/NDF: 27.0/24
Left In: 85.243+/-130.966 χ²/NDF:17.1/22
Left: -226.102+/-92.493 χ²/NDF: 90.0/46
Right: 41.464+/-144.211 χ²/NDF: 62.6/44
In: -17.876+/-110.720 χ²/NDF:50.4/42
Out: -275.500+/-109.500 χ²/NDF:101.9/48
All: -148.116+/-77.856 χ²/NDF: 155.0/91




Right In: 608.632+/-0.147 $\chi^2$/NDF: 1959489.9/19

Left Out: 551.439+/-0.092 $\chi^2$/NDF:1226632.2/23

Right Out: 631.950+/-0.142 $\chi^2$/NDF: 2795544.7/24

Left In: 551.335+/-0.093 $\chi^2$/NDF:1061731.9/22

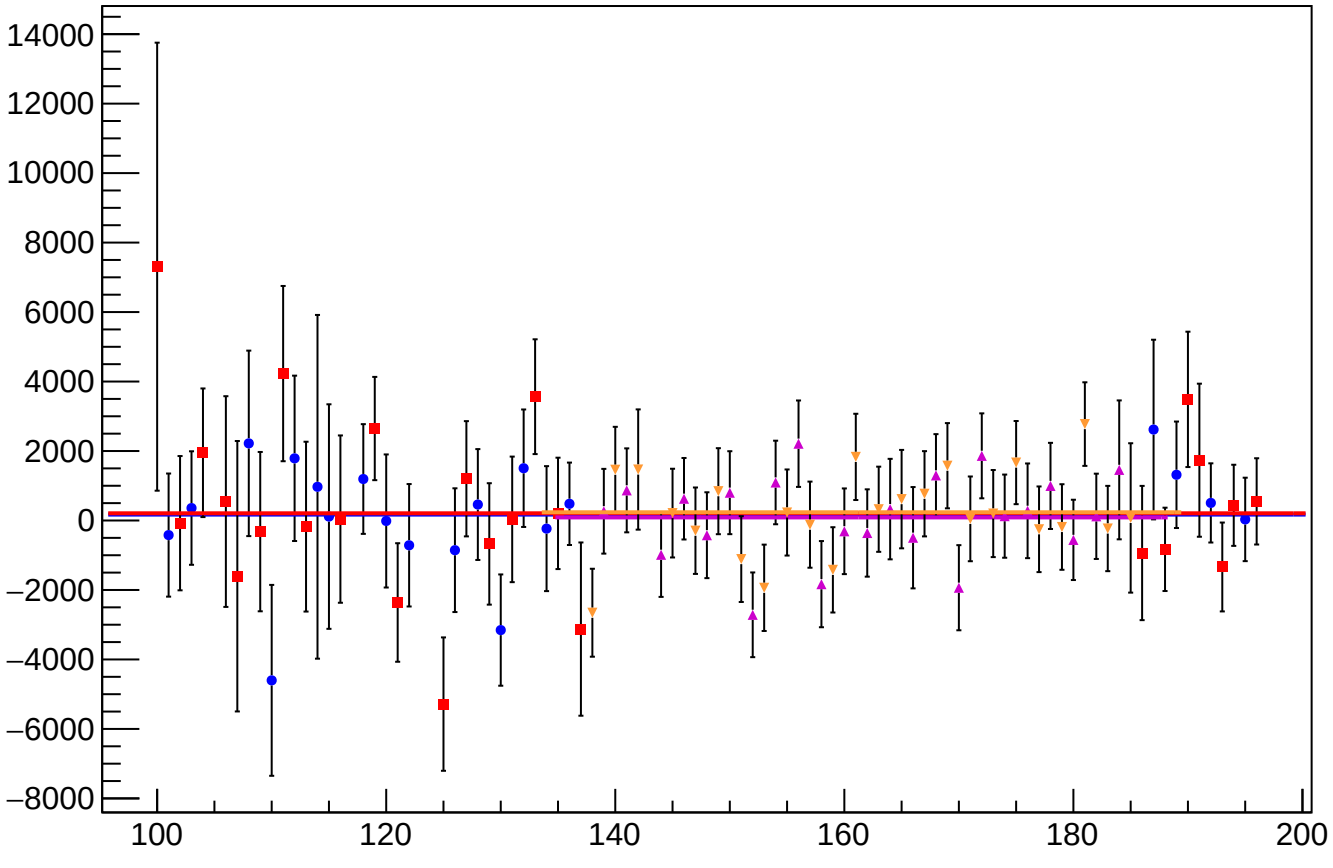
Left: 551.388+/-0.065 $\chi^2$/NDF: 2288364.7/46

Right: 620.665+/-0.102 $\chi^2$/NDF: 4768092.7/44

In: 567.681+/-0.078 $\chi^2$/NDF:3130425.5/42

Out: 575.393+/-0.077 $\chi^2$/NDF:4248149.7/48

All: 571.580+/-0.055 $\chi^2$/NDF: 7383480.7/91




Right In: 170.276+/-384.033 $\chi^2$/NDF: 11.9/19

Left Out: 236.642+/-259.669 $\chi^2$/NDF:22.7/23

Right Out: 207.300+/-356.869 $\chi^2$/NDF: 30.6/24

Left In: 88.370+/-261.602 $\chi^2$/NDF:20.9/22

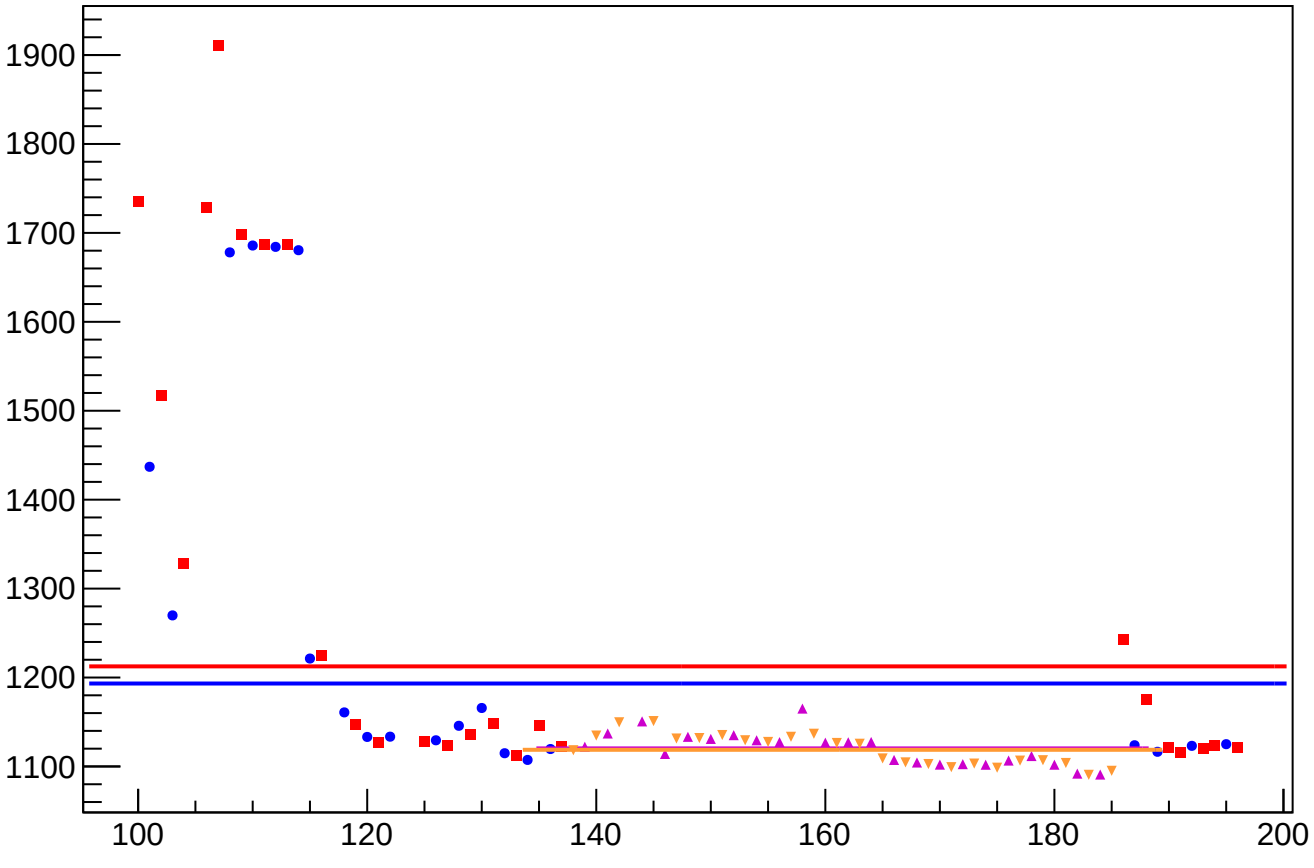
Left: 163.056+/-184.293 $\chi^2$/NDF: 43.8/46

Right: 190.144+/-261.421 $\chi^2$/NDF: 42.5/44

In: 114.330+/-216.205 $\chi^2$/NDF:32.8/42

Out: 226.485+/-209.968 $\chi^2$/NDF:53.4/48

All: 172.049+/-150.627 $\chi^2$/NDF: 86.3/91




Right In: 1193.268+/-0.272 $\chi^2$/NDF: 324230.9/19

Left Out: 1118.733+/-0.184 $\chi^2$/NDF:8205.0/23

Right Out: 1212.543+/-0.252 $\chi^2$/NDF: 510082.9/24

Left In: 1120.308+/-0.185 $\chi^2$/NDF:9479.7/22

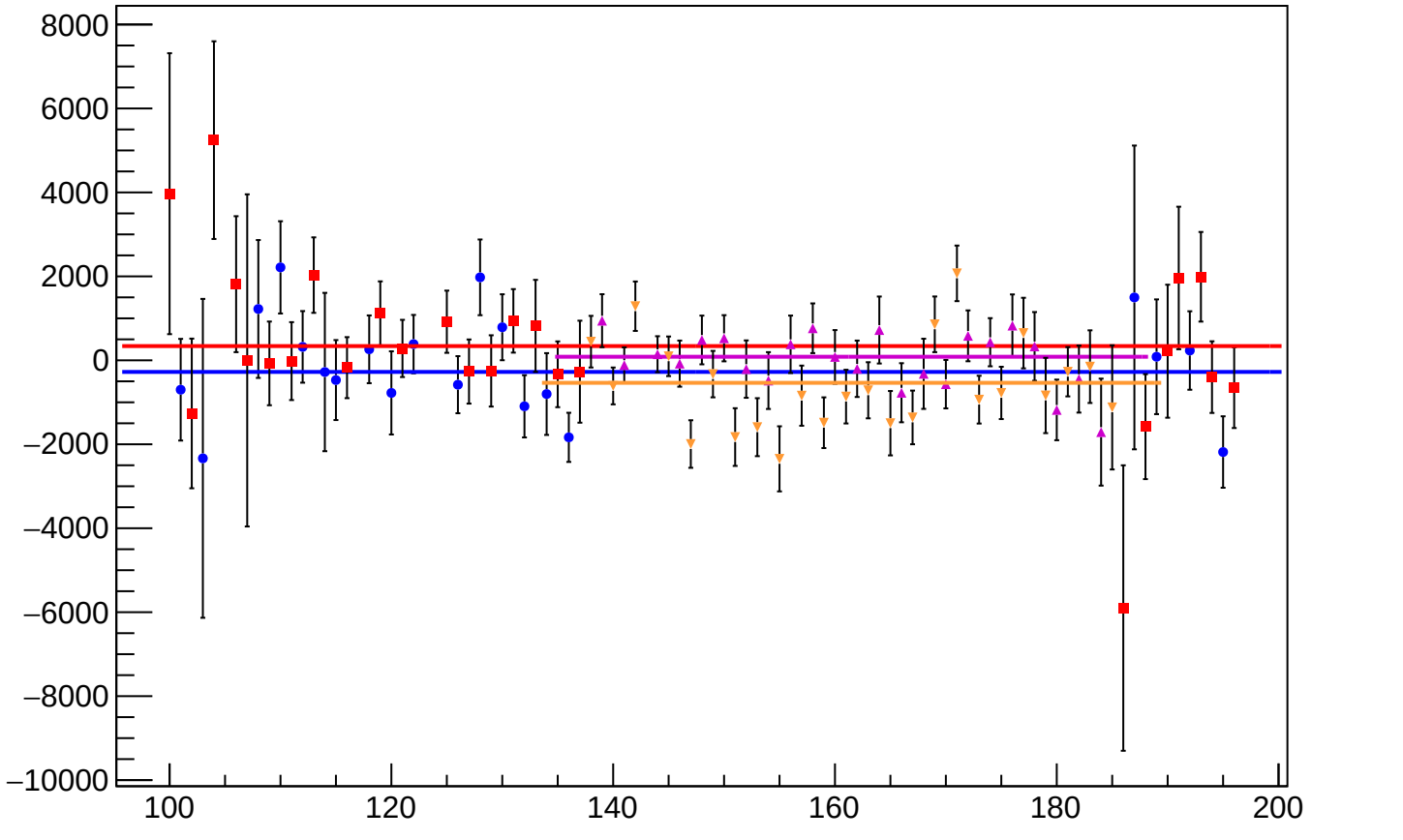
Left: 1119.515+/-0.130 $\chi^2$/NDF: 17721.2/46

Right: 1203.611+/-0.185 $\chi^2$/NDF: 837017.6/44

In: 1143.433+/-0.153 $\chi^2$/NDF:383017.1/42

Out: 1151.207+/-0.148 $\chi^2$/NDF:608648.2/48

All: 1147.434+/-0.107 $\chi^2$/NDF: 992996.1/91




Right In: -276.233+/-207.299 $\chi^2$/NDF: 31.0/19

Left Out: -535.930+/-130.646 $\chi^2$/NDF:61.6/23

Right Out: 339.404+/-200.749 $\chi^2$/NDF: 27.0/24

Left In: 85.243+/-130.966 $\chi^2$/NDF:17.1/22

Left: -226.102+/-92.493 $\chi^2$/NDF: 90.0/46

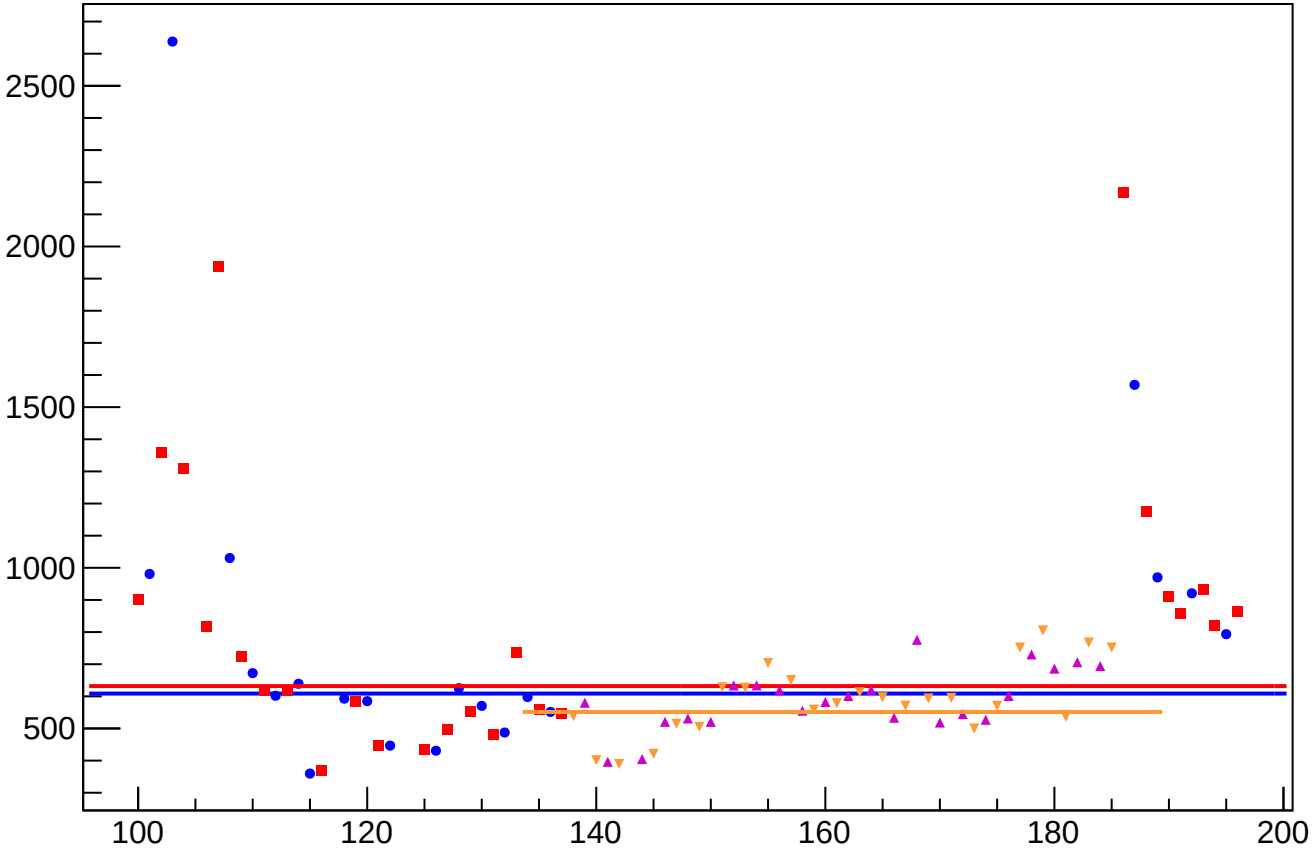
Right: 41.464+/-144.211 $\chi^2$/NDF: 62.6/44

In: -17.876+/-110.720 $\chi^2$/NDF:50.4/42

Out: -275.500+/-109.500 $\chi^2$/NDF:101.9/48

All: -148.116+/-77.856 $\chi^2$/NDF: 155.0/91

asym_usl_atl1_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 608.632+/-0.147 $\chi^2$/NDF: 1959489.9/19

Left Out: 551.439+/-0.092 $\chi^2$/NDF:1226632.2/23

Right Out: 631.950+/-0.142 $\chi^2$/NDF: 2795544.7/24

Left In: 551.335+/-0.093 $\chi^2$/NDF:1061731.9/22

Left: 551.388+/-0.065 $\chi^2$/NDF: 2288364.7/46

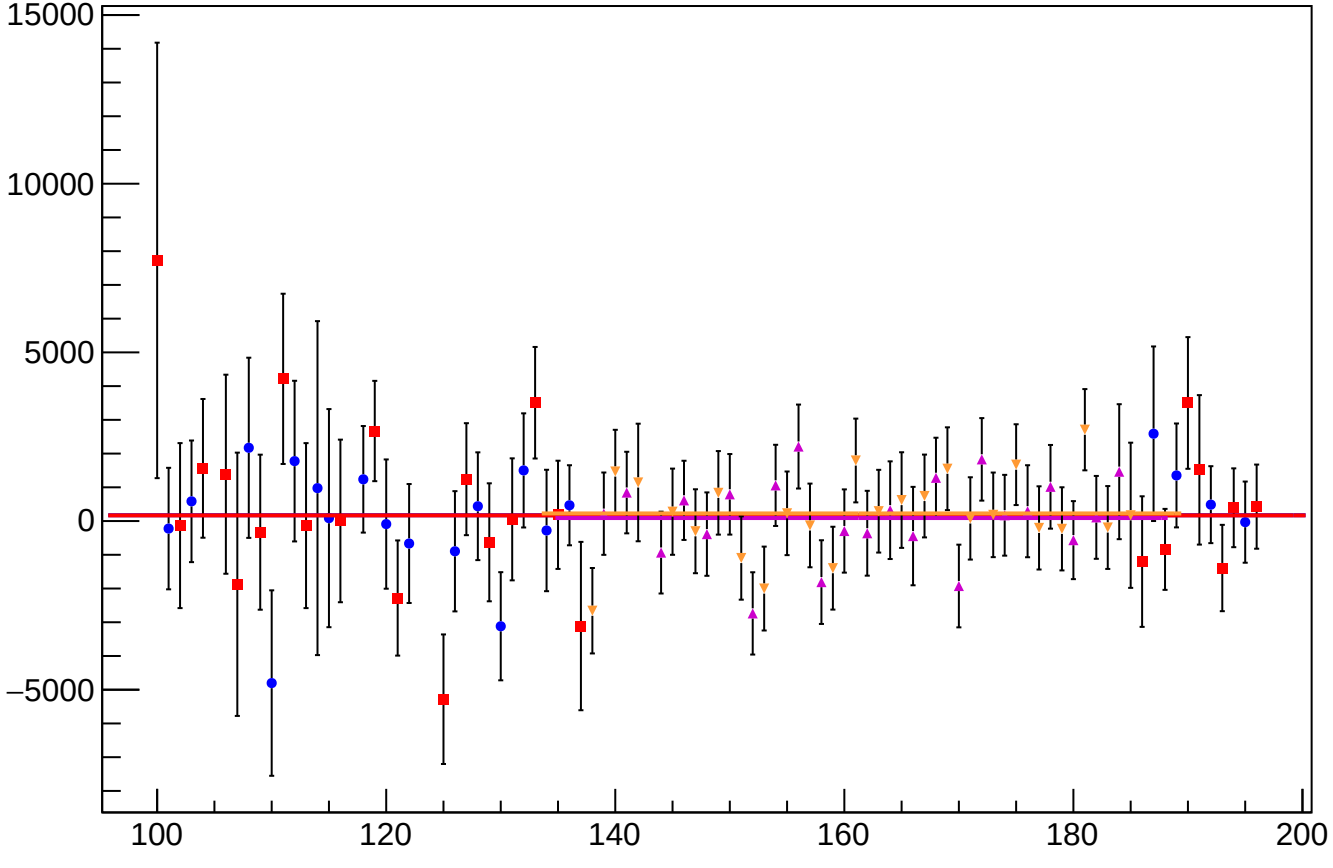
Right: 620.665+/-0.102 $\chi^2$/NDF: 4768092.7/44

In: 567.681+/-0.078 $\chi^2$/NDF:3130425.5/42

Out: 575.393+/-0.077 $\chi^2$/NDF:4248149.7/48

All: 571.580+/-0.055 $\chi^2$/NDF: 7383480.7/91

# dit_asym_usl_atl1_dd_mean vs Slug, Sign Corrected




Right In: 172.432+/-386.591 $\chi^2$/NDF: 12.0/19

Left Out: 225.663+/-259.829 $\chi^2$/NDF:22.2/23

Right Out: 167.930+/-360.734 $\chi^2$/NDF: 30.4/24

Left In: 89.078+/-261.717 $\chi^2$/NDF:20.6/22

Left: 157.865+/-184.391 $\chi^2$/NDF: 42.9/46

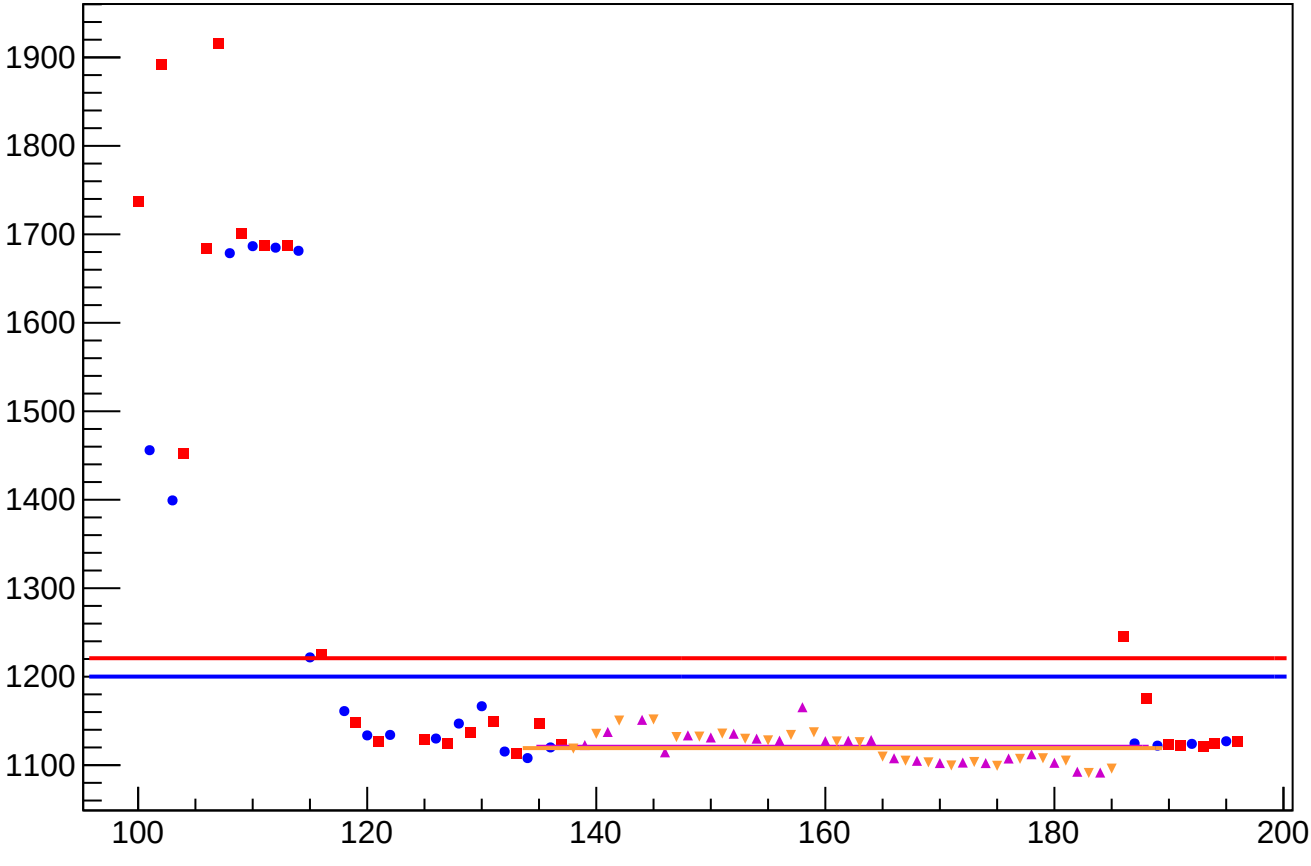
Right: 170.025+/-263.745 $\chi^2$/NDF: 42.4/44

In: 115.274+/-216.724 $\chi^2$/NDF:32.6/42

Out: 205.942+/-210.832 $\chi^2$/NDF:52.6/48

All: 161.857+/-151.121 $\chi^2$/NDF: 85.3/91

# dit_asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1200.103+/-0.273 $\chi^2$/NDF: 348652.7/19

Left Out: 1119.258+/-0.184 $\chi^2$/NDF:8143.3/23

Right Out: 1220.869+/-0.255 $\chi^2$/NDF: 625152.7/24

Left In: 1120.800+/-0.185 $\chi^2$/NDF:9426.5/22

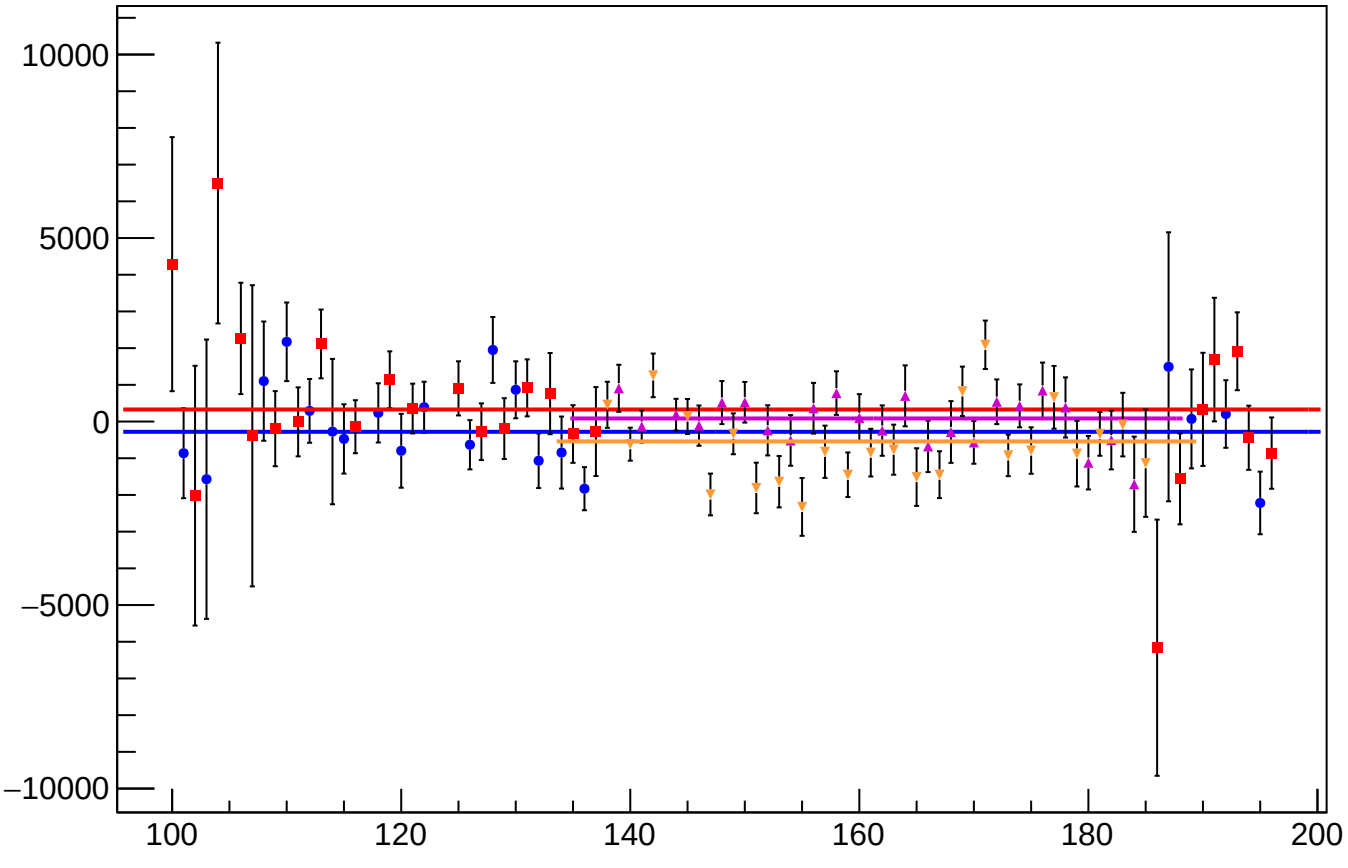
Left: 1120.024+/-0.130 $\chi^2$/NDF: 17604.8/46

Right: 1211.204+/-0.186 $\chi^2$/NDF: 976890.1/44

In: 1145.723+/-0.153 $\chi^2$/NDF:415789.8/42

Out: 1153.967+/-0.149 $\chi^2$/NDF:737777.2/48

All: 1149.959+/-0.107 $\chi^2$/NDF: 1155053.8/91




Right In: -279.406+/-207.025 $\chi^2$/NDF: 31.2/19

Left Out: -541.592+/-132.012 $\chi^2$/NDF:60.9/23

Right Out: 329.341+/-203.117 $\chi^2$/NDF: 25.8/24

Left In: 84.122+/-132.548 $\chi^2$/NDF:16.4/22

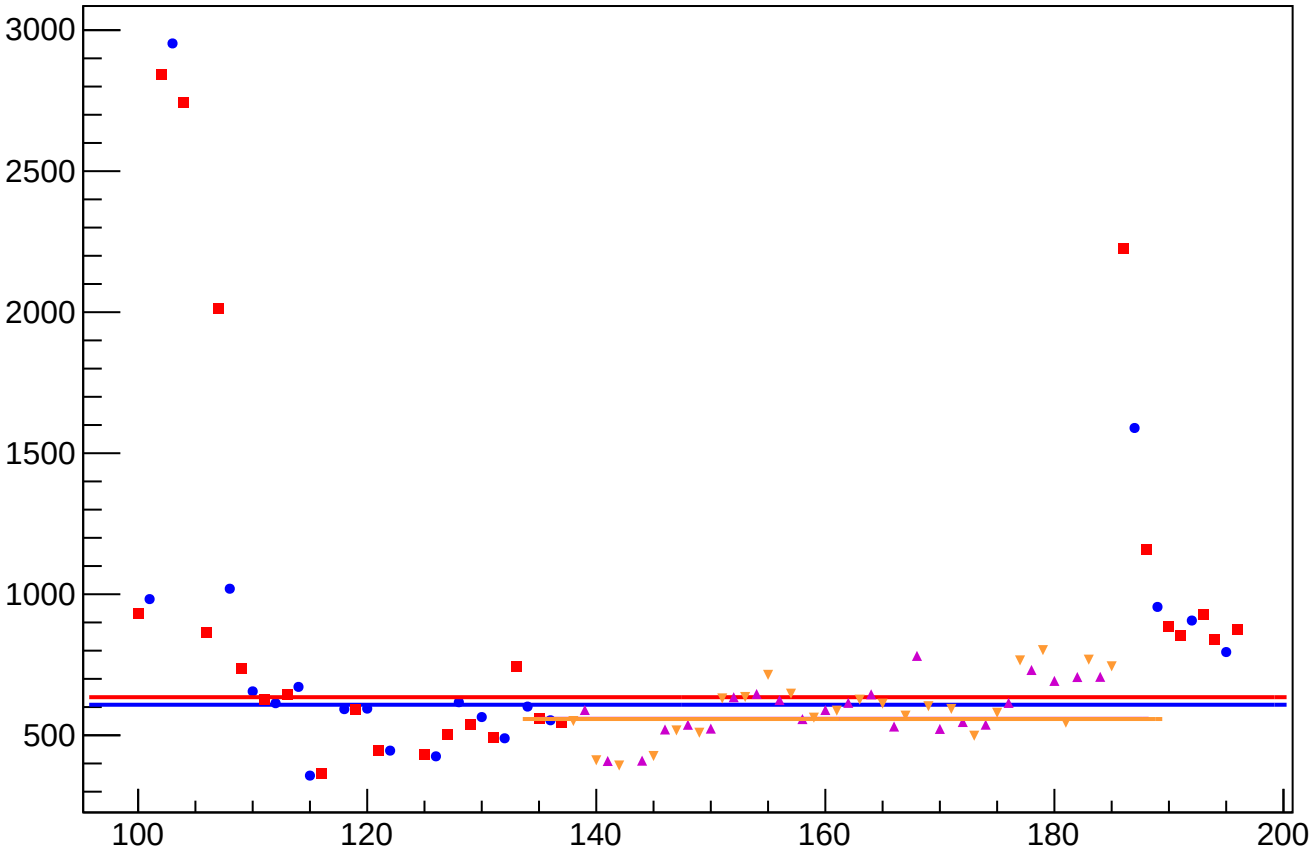
Left: -230.004+/-93.535 $\chi^2$/NDF: 88.5/46

Right: 30.767+/-144.987 $\chi^2$/NDF: 61.4/44

In: -21.571+/-111.629 $\chi^2$/NDF:49.8/42

Out: -282.954+/-110.688 $\chi^2$/NDF:99.6/48

All: -153.369+/-78.599 $\chi^2$/NDF: 152.2/91




Right In: 608.206+/-0.146 $\chi^2$/NDF: 2138273.5/19

Left Out: 557.592+/-0.093 $\chi^2$/NDF:1193270.2/23

Right Out: 635.032+/-0.144 $\chi^2$/NDF: 3728658.9/24

Left In: 558.393+/-0.094 $\chi^2$/NDF:1027814.4/22

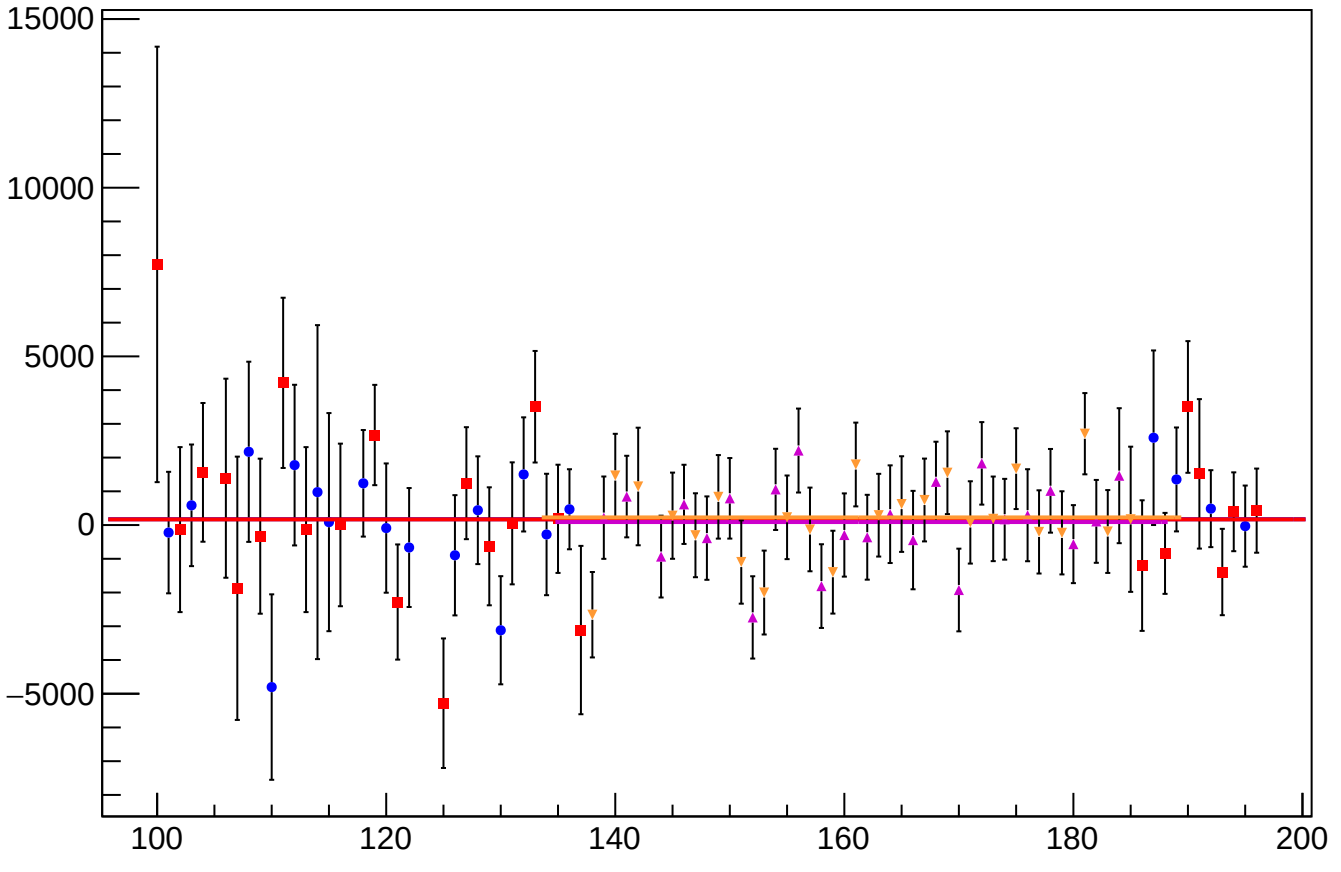
Left: 557.991+/-0.066 $\chi^2$/NDF: 2221121.2/46

Right: 621.875+/-0.103 $\chi^2$/NDF: 5884043.3/44

In: 572.876+/-0.079 $\chi^2$/NDF:3248213.1/42

Out: 580.589+/-0.078 $\chi^2$/NDF:5126314.8/48

All: 576.765+/-0.056 $\chi^2$/NDF: 8379342.8/91




Right In: 172.432+/-386.591 $\chi^2$/NDF: 12.0/19

Left Out: 225.661+/-259.829 $\chi^2$/NDF:22.2/23

Right Out: 167.930+/-360.734 $\chi^2$/NDF: 30.4/24

Left In: 89.079+/-261.717 $\chi^2$/NDF:20.6/22

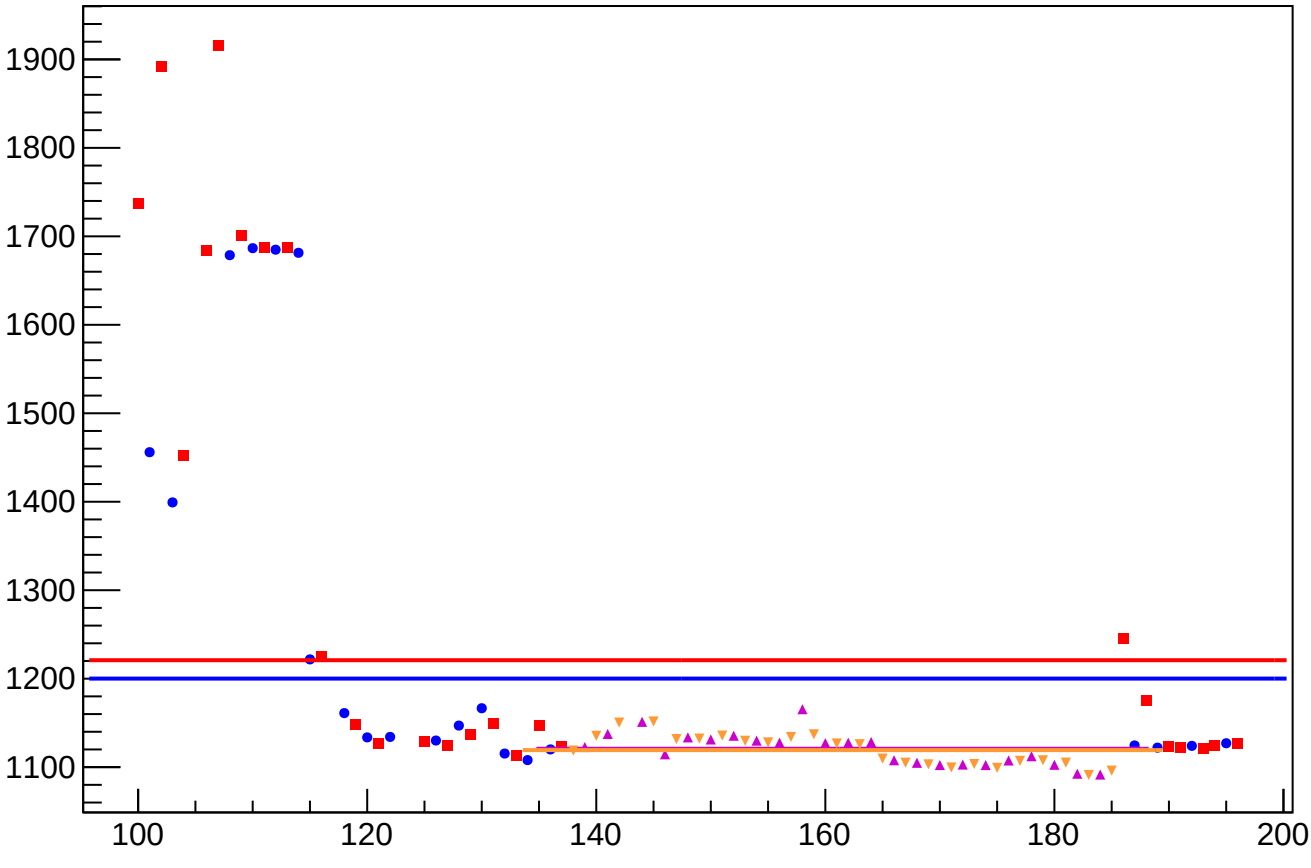
Left: 157.864+/-184.391 $\chi^2$/NDF: 42.9/46

Right: 170.026+/-263.745 $\chi^2$/NDF: 42.4/44

In: 115.275+/-216.724 $\chi^2$/NDF:32.6/42

Out: 205.941+/-210.832 $\chi^2$/NDF:52.6/48

All: 161.857+/-151.121 $\chi^2$/NDF: 85.3/91




Right In: 1200.103+/-0.273 $\chi^2$/NDF: 348652.2/19

Left Out: 1119.258+/-0.184 $\chi^2$/NDF:8143.3/23

Right Out: 1220.869+/-0.255 $\chi^2$/NDF: 625152.0/24

Left In: 1120.800+/-0.185 $\chi^2$/NDF:9426.5/22

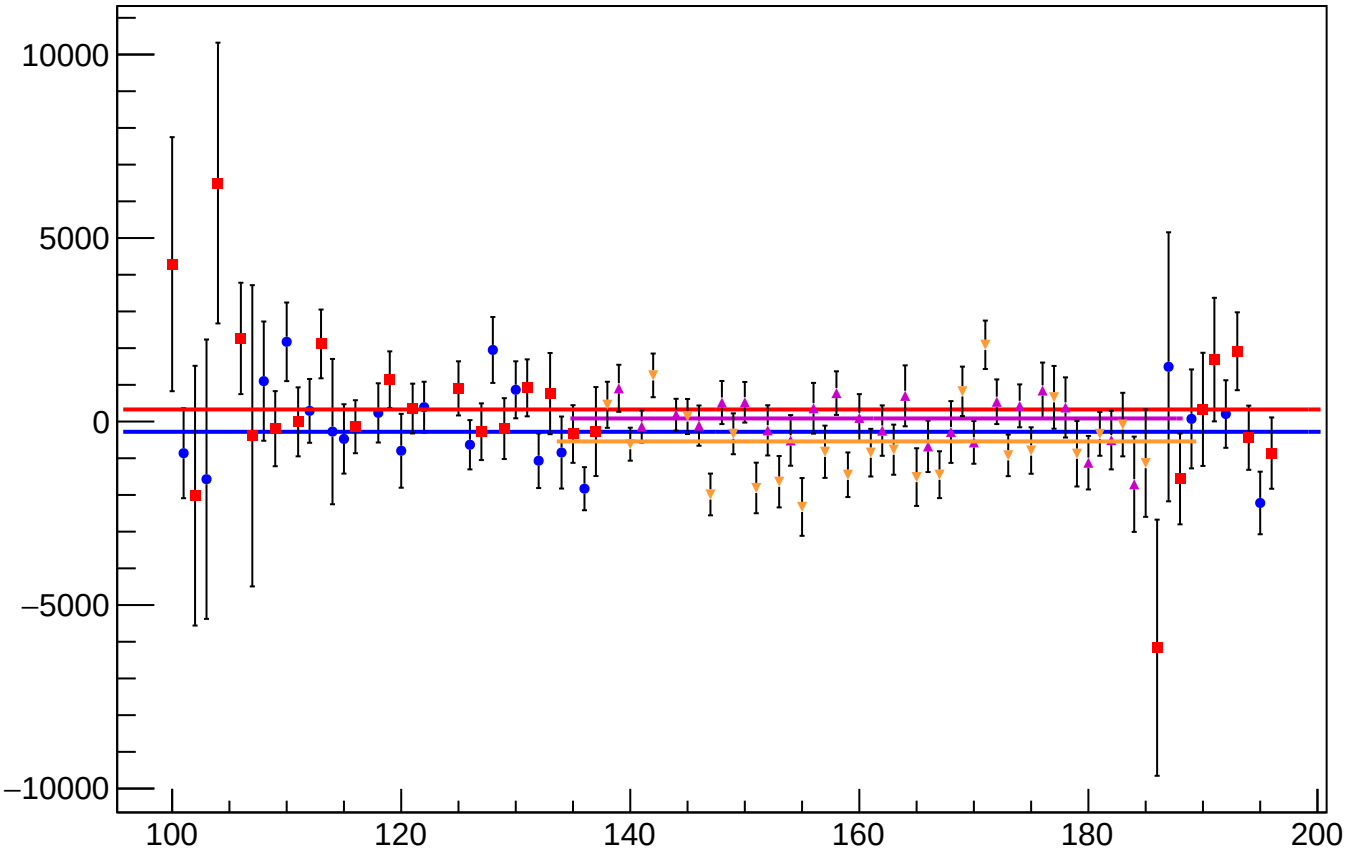
Left: 1120.024+/-0.130 $\chi^2$/NDF: 17604.8/46

Right: 1211.204+/-0.186 $\chi^2$/NDF: 976889.0/44

In: 1145.723+/-0.153 $\chi^2$/NDF:415789.3/42

Out: 1153.967+/-0.149 $\chi^2$/NDF:737776.4/48

All: 1149.959+/-0.107 $\chi^2$/NDF: 1155052.5/91




Right In: -279.406+/-207.025 $\chi^2$/NDF: 31.2/19

Left Out: -541.591+/-132.012 $\chi^2$/NDF:60.9/23

Right Out: 329.341+/-203.117 $\chi^2$/NDF: 25.8/24

Left In: 84.122+/-132.548 $\chi^2$/NDF:16.4/22

Left: -230.004+/-93.535 $\chi^2$/NDF: 88.5/46

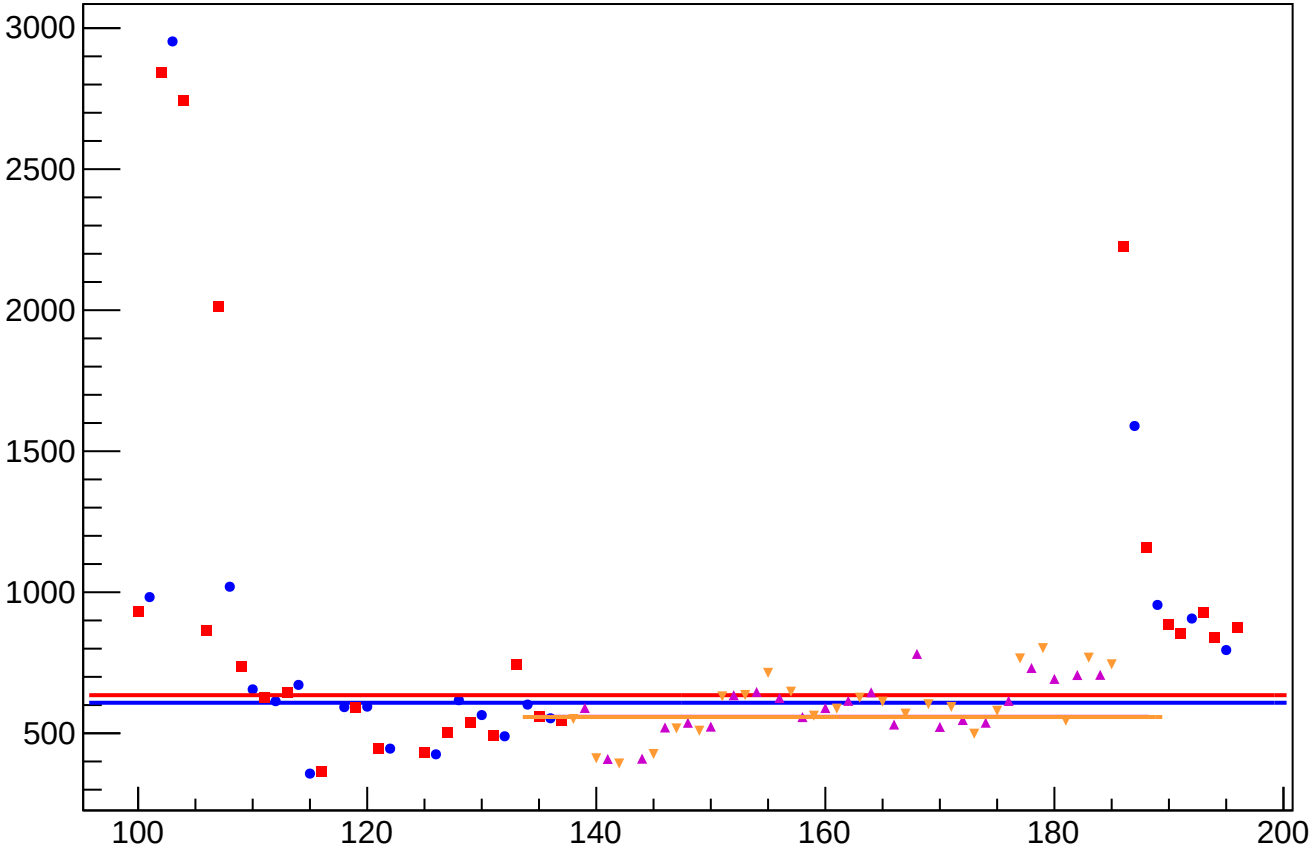
Right: 30.767+/-144.987 $\chi^2$/NDF: 61.4/44

In: -21.571+/-111.629 $\chi^2$/NDF:49.8/42

Out: -282.954+/-110.688 $\chi^2$/NDF:99.6/48

All: -153.368+/-78.599 $\chi^2$/NDF: 152.2/91

asym_usl_atl1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 608.206+/-0.146 $\chi^2$/NDF: 2138269.7/19

Left Out: 557.591+/-0.093 $\chi^2$/NDF:1193291.2/23

Right Out: 635.032+/-0.144 $\chi^2$/NDF: 3728659.1/24

Left In: 558.392+/-0.094 $\chi^2$/NDF:1027828.9/22

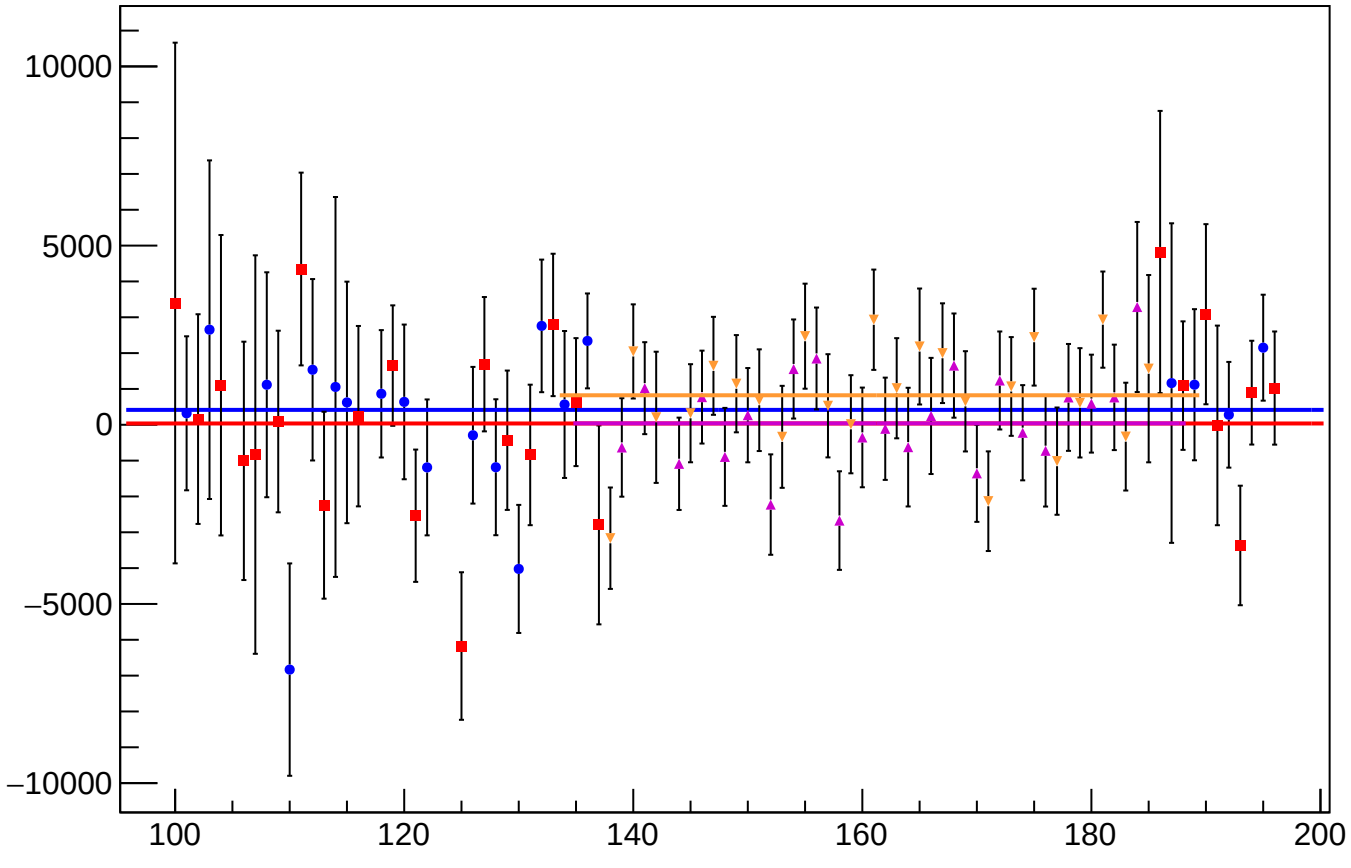
Left: 557.990+/-0.066 $\chi^2$/NDF: 2221156.8/46

Right: 621.875+/-0.103 $\chi^2$/NDF: 5884039.6/44

In: 572.875+/-0.079 $\chi^2$/NDF:3248225.3/42

Out: 580.588+/-0.078 $\chi^2$/NDF:5126339.1/48

All: 576.764+/-0.056 $\chi^2$/NDF: 8379379.2/91




Right In: 415.773+/-460.077 $\chi^2$/NDF: 19.5/19

Left Out: 823.319+/-294.835 $\chi^2$/NDF:26.2/23

Right Out: 36.336+/-438.357 $\chi^2$/NDF: 28.0/24

Left In: 39.696+/-296.006 $\chi^2$/NDF:17.9/22

Left: 433.060+/-208.893 $\chi^2$/NDF: 47.6/46

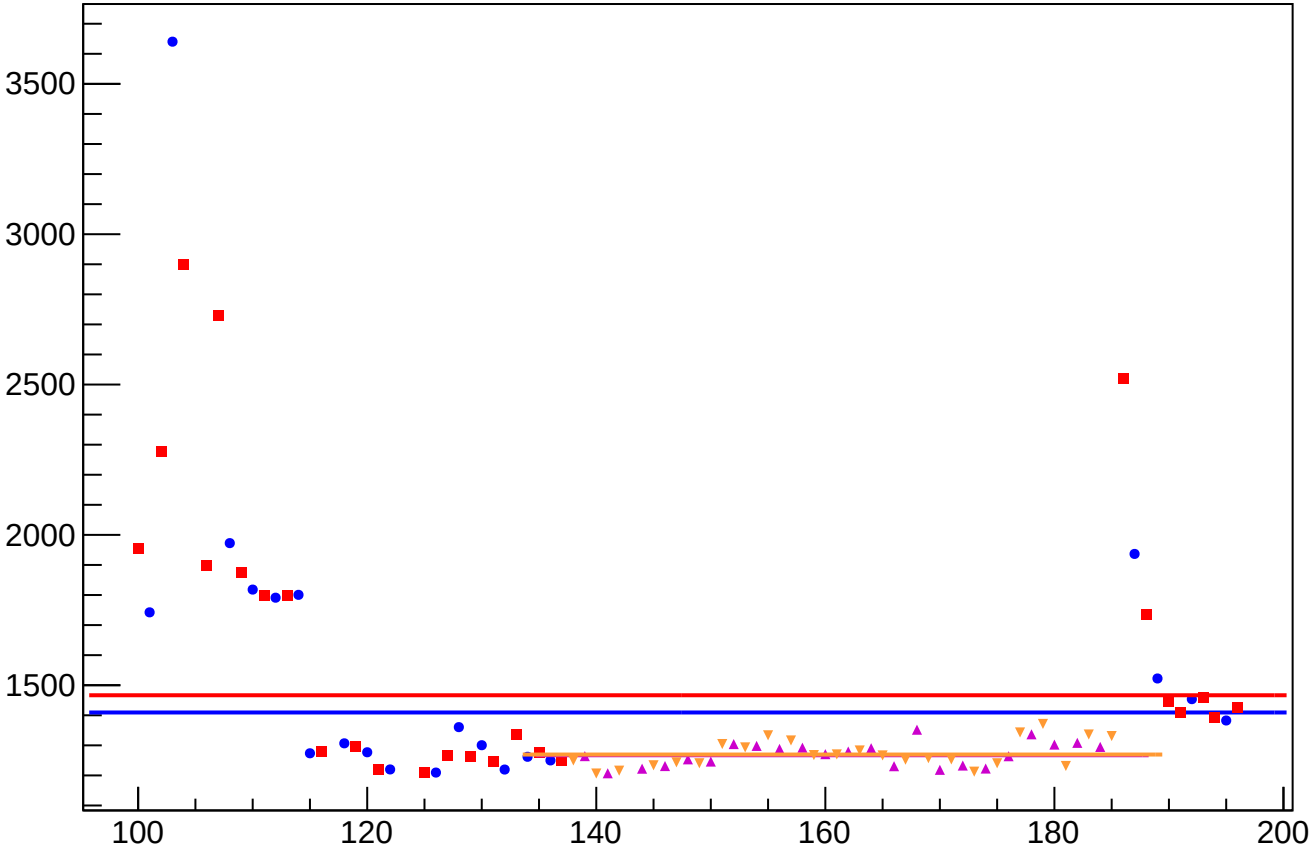
Right: 216.887+/-317.366 $\chi^2$/NDF: 47.9/44

In: 149.795+/-248.934 $\chi^2$/NDF:37.9/42

Out: 578.194+/-244.647 $\chi^2$/NDF:56.4/48

All: 367.716+/-174.487 $\chi^2$/NDF: 95.8/91

# asym_usl_atl1_dd_rms vs Slug, Sign Corrected




Right In: 1409.331+/-0.325 $\chi^2$/NDF: 817477.5/19

Left Out: 1269.441+/-0.208 $\chi^2$/NDF:43040.3/23

Right Out: 1466.619+/-0.310 $\chi^2$/NDF: 1055532.5/24

Left In: 1267.066+/-0.209 $\chi^2$/NDF:34547.0/22

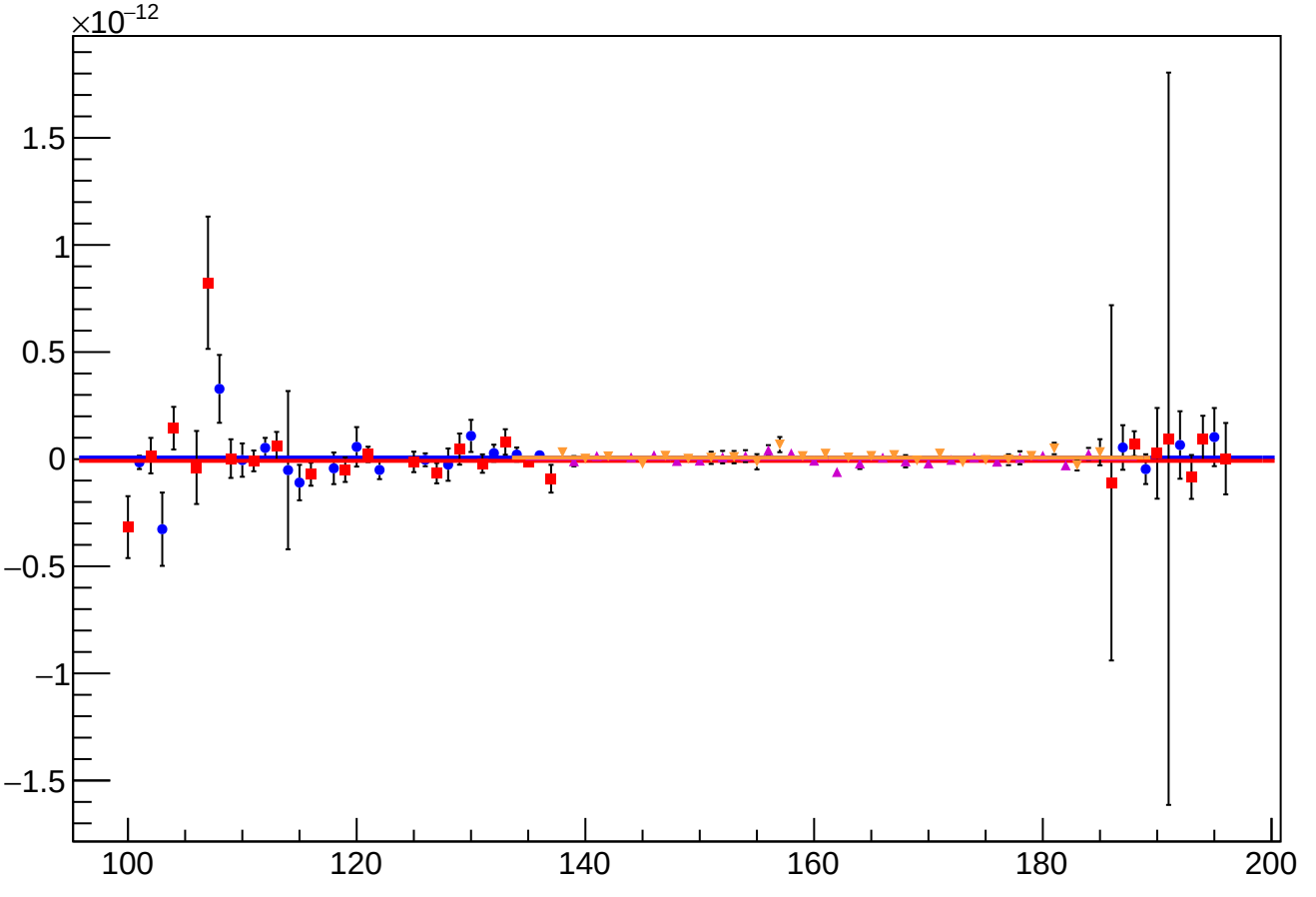
Left: 1268.258+/-0.148 $\chi^2$/NDF: 77651.9/46

Right: 1439.359+/-0.224 $\chi^2$/NDF: 1889263.9/44

In: 1308.715+/-0.176 $\chi^2$/NDF:987273.6/42

Out: 1330.856+/-0.173 $\chi^2$/NDF:1377192.1/48

All: 1319.978+/-0.123 $\chi^2$/NDF: 2372514.3/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.8/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.6/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.0/22

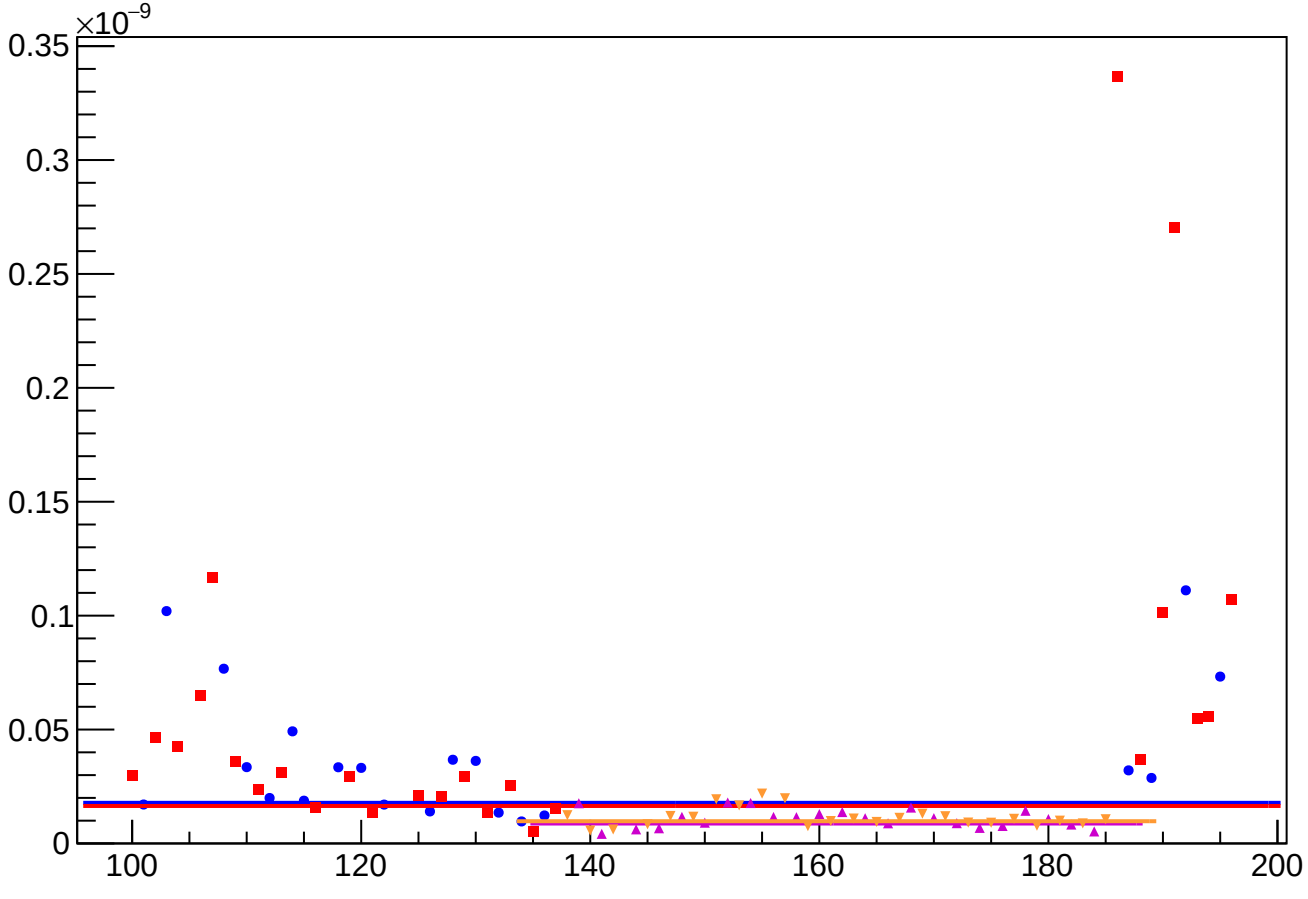
Left: 0.000+/-0.000 $\chi^2$/NDF: 43.2/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 47.0/44

In: 0.000+/-0.000 $\chi^2$/NDF:41.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:49.1/48

All: 0.000+/-0.000 $\chi^2$/NDF: 90.6/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2719228.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1373738.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4389438.0/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:1928867.4/22

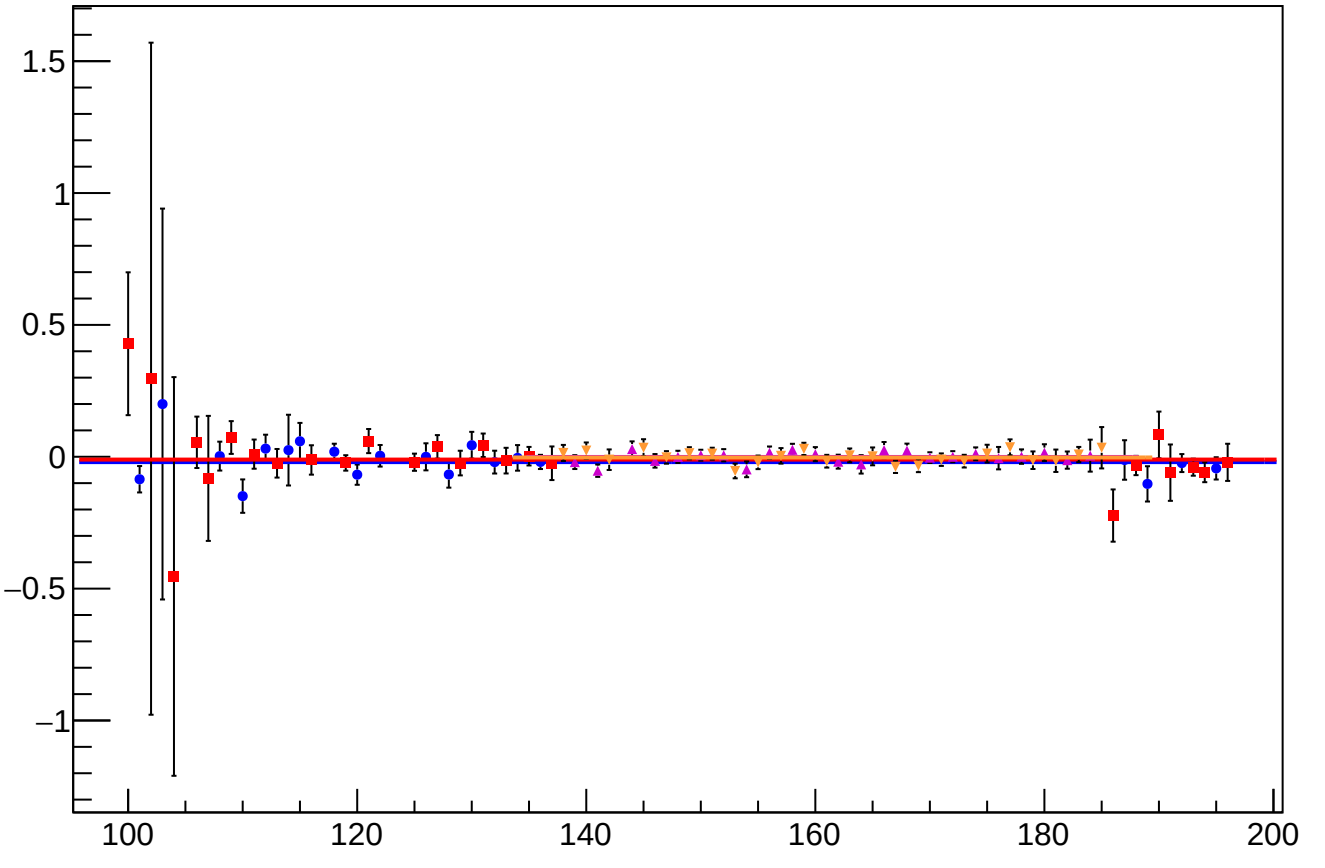
Left: 0.000+/-0.000 $\chi^2$/NDF: 3372071.7/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 7126090.5/44

In: 0.000+/-0.000 $\chi^2$/NDF:5951838.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6500336.0/48

All: 0.000+/-0.000 $\chi^2$/NDF: 12513061.8/91




Right In: -0.020+/-0.010 $\chi^2$/NDF: 16.6/19

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.3/23

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 19.9/24

Left In: -0.001+/-0.005 $\chi^2$/NDF:14.9/22

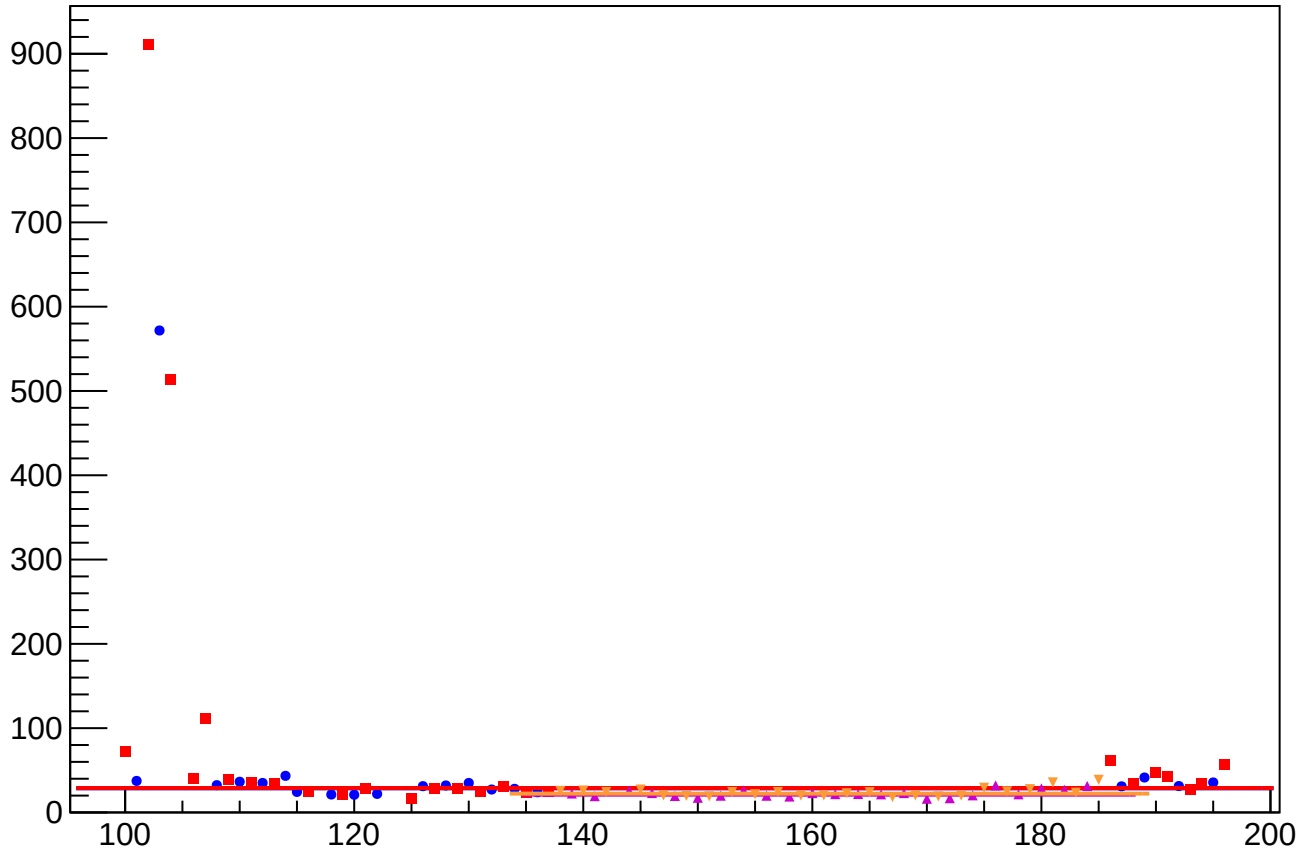
Left: -0.002+/-0.004 $\chi^2$/NDF: 31.3/46

Right: -0.015+/-0.007 $\chi^2$/NDF: 37.0/44

In: -0.005+/-0.005 $\chi^2$/NDF:34.3/42

Out: -0.005+/-0.005 $\chi^2$/NDF:36.7/48

All: -0.005+/-0.003 $\chi^2$/NDF: 71.0/91




Right In: 28.587+/-0.007 $\chi^2$/NDF: 1737072.4/19

Left Out: 22.355+/-0.004 $\chi^2$/NDF:816073.4/23

Right Out: 29.013+/-0.007 $\chi^2$/NDF: 3444053.1/24

Left In: 21.099+/-0.004 $\chi^2$/NDF:819255.8/22

Left: 21.703+/-0.003 $\chi^2$/NDF: 1686083.7/46

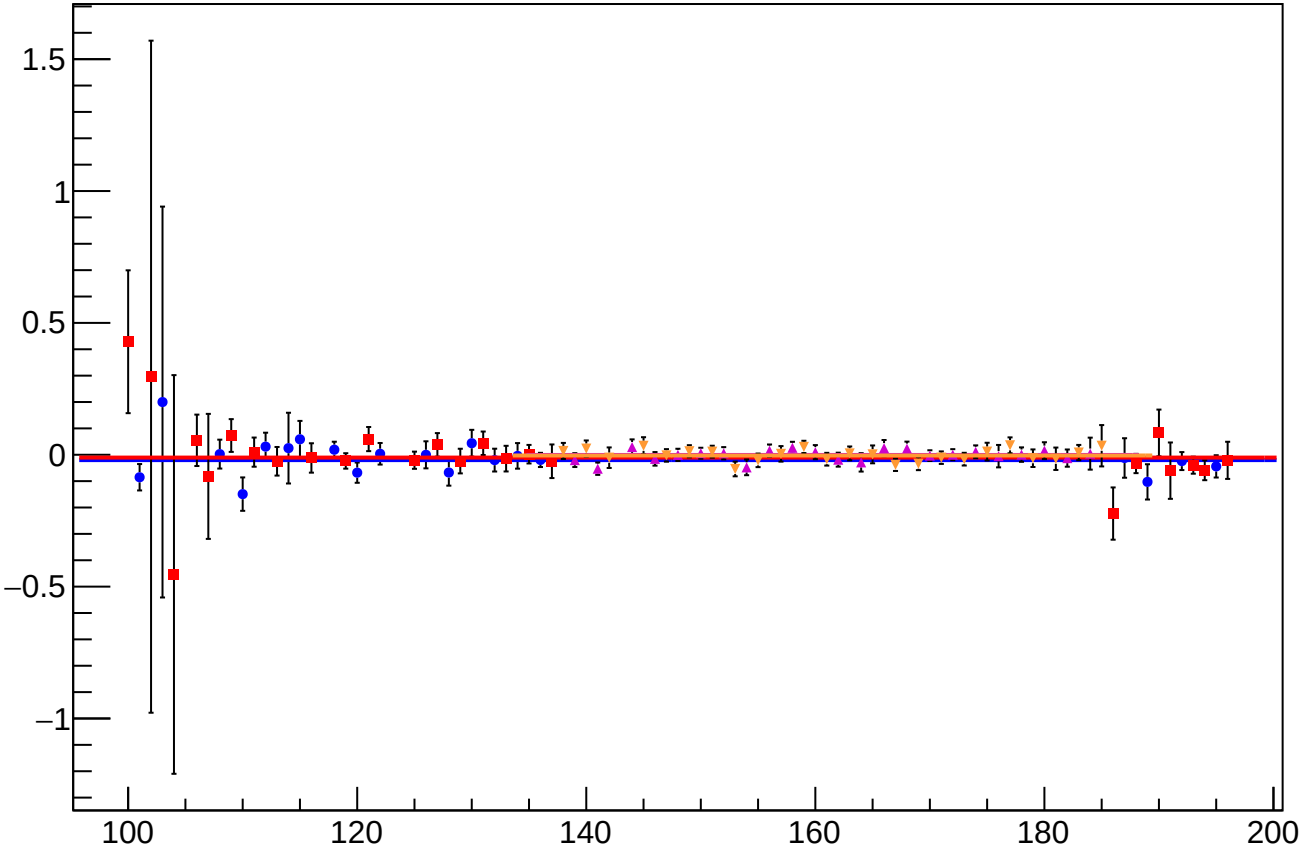
Right: 28.806+/-0.005 $\chi^2$/NDF: 5182861.3/44

In: 22.728+/-0.003 $\chi^2$/NDF:3372887.1/42

Out: 23.962+/-0.004 $\chi^2$/NDF:4922391.7/48

All: 23.330+/-0.002 $\chi^2$/NDF: 8358870.1/91

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.010 $\chi^2$/NDF: 16.6/19

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.3/23

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 19.9/24

Left In: -0.001+/-0.005 $\chi^2$/NDF:14.9/22

Left: -0.002+/-0.004 $\chi^2$/NDF: 31.3/46

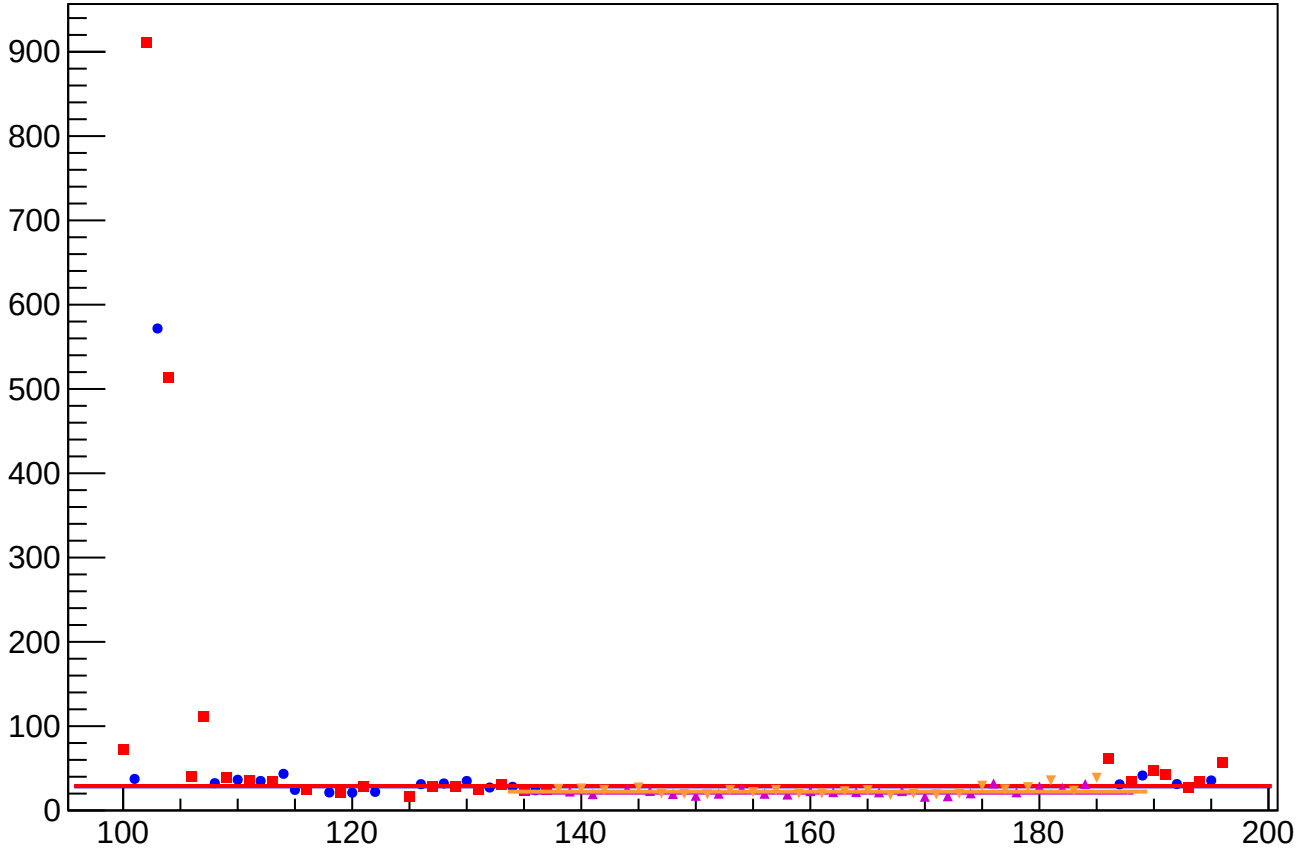
Right: -0.015+/-0.007 $\chi^2$/NDF: 37.0/44

In: -0.005+/-0.005 $\chi^2$/NDF:34.3/42

Out: -0.005+/-0.005 $\chi^2$/NDF:36.7/48

All: -0.005+/-0.003 $\chi^2$/NDF: 71.0/91

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.587+/-0.007 $\chi^2$/NDF: 1737072.4/19

Left Out: 22.355+/-0.004 $\chi^2$/NDF:816073.4/23

Right Out: 29.013+/-0.007 $\chi^2$/NDF: 3444053.1/24

Left In: 21.099+/-0.004 $\chi^2$/NDF:819255.8/22

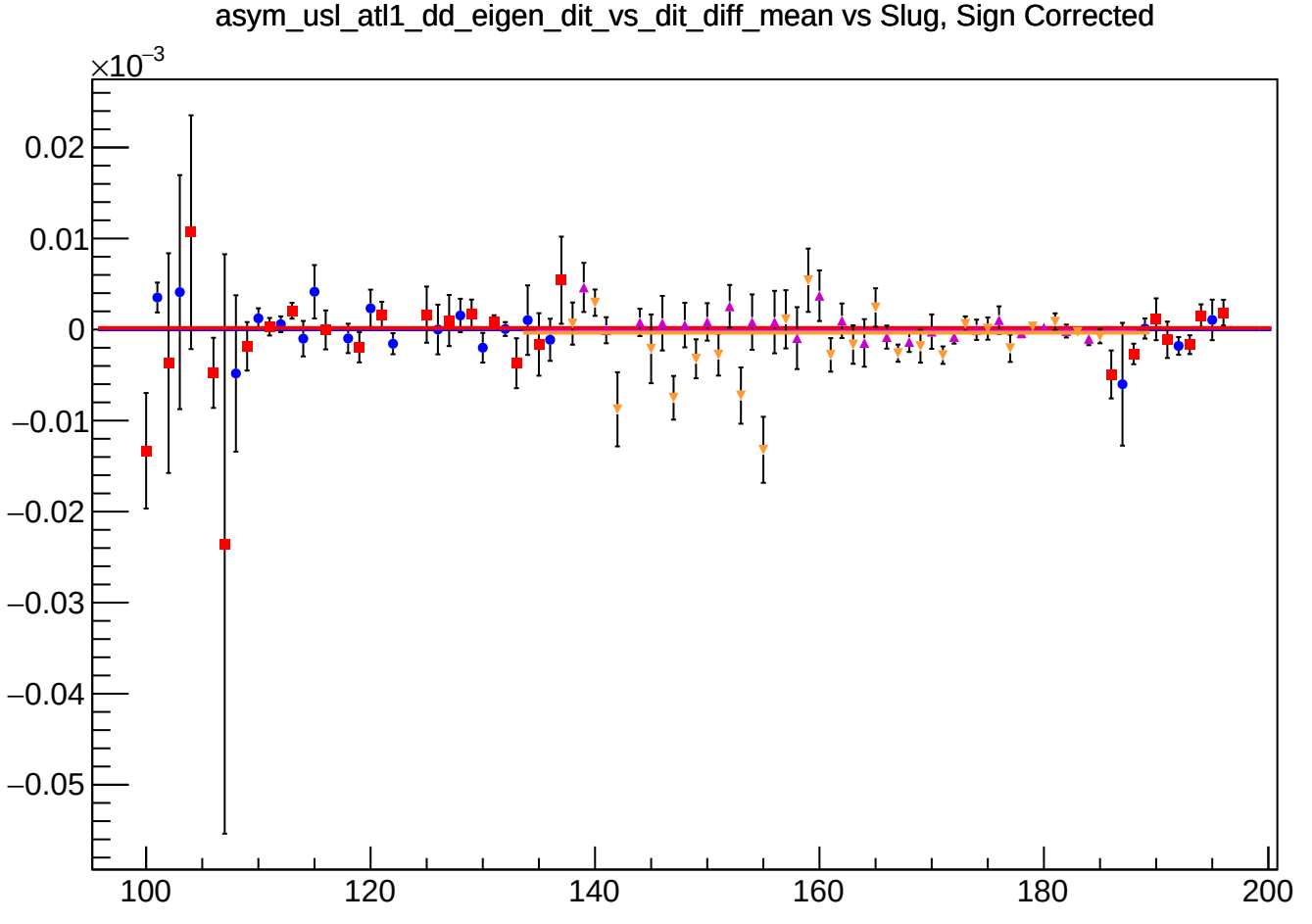
Left: 21.703+/-0.003 $\chi^2$/NDF: 1686083.7/46

Right: 28.806+/-0.005 $\chi^2$/NDF: 5182861.3/44

In: 22.728+/-0.003 $\chi^2$/NDF:3372887.1/42

Out: 23.962+/-0.004 $\chi^2$/NDF:4922391.7/48

All: 23.330+/-0.002 $\chi^2$/NDF: 8358870.1/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:68.1/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 37.3/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.2/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 82.8/46

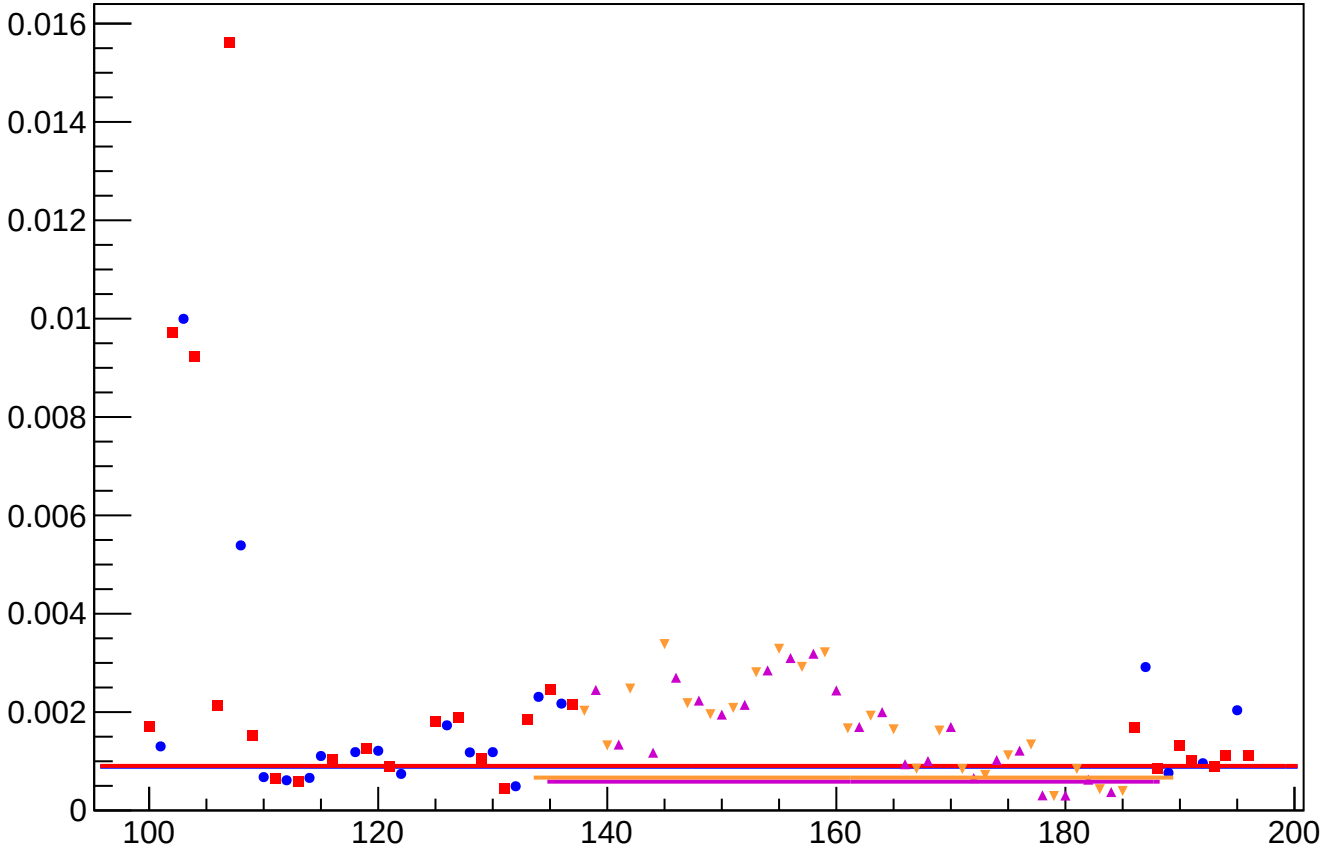
Right: 0.000+/-0.000 $\chi^2$/NDF: 56.7/44

In: -0.000+/-0.000 $\chi^2$/NDF:33.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:107.1/48

All: -0.000+/-0.000 $\chi^2$/NDF: 141.1/91

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4631465.3/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:15375915.0/23

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 5442607.9/24

Left In: 0.001+/-0.000 $\chi^2$/NDF:15658683.6/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 31210781.6/46

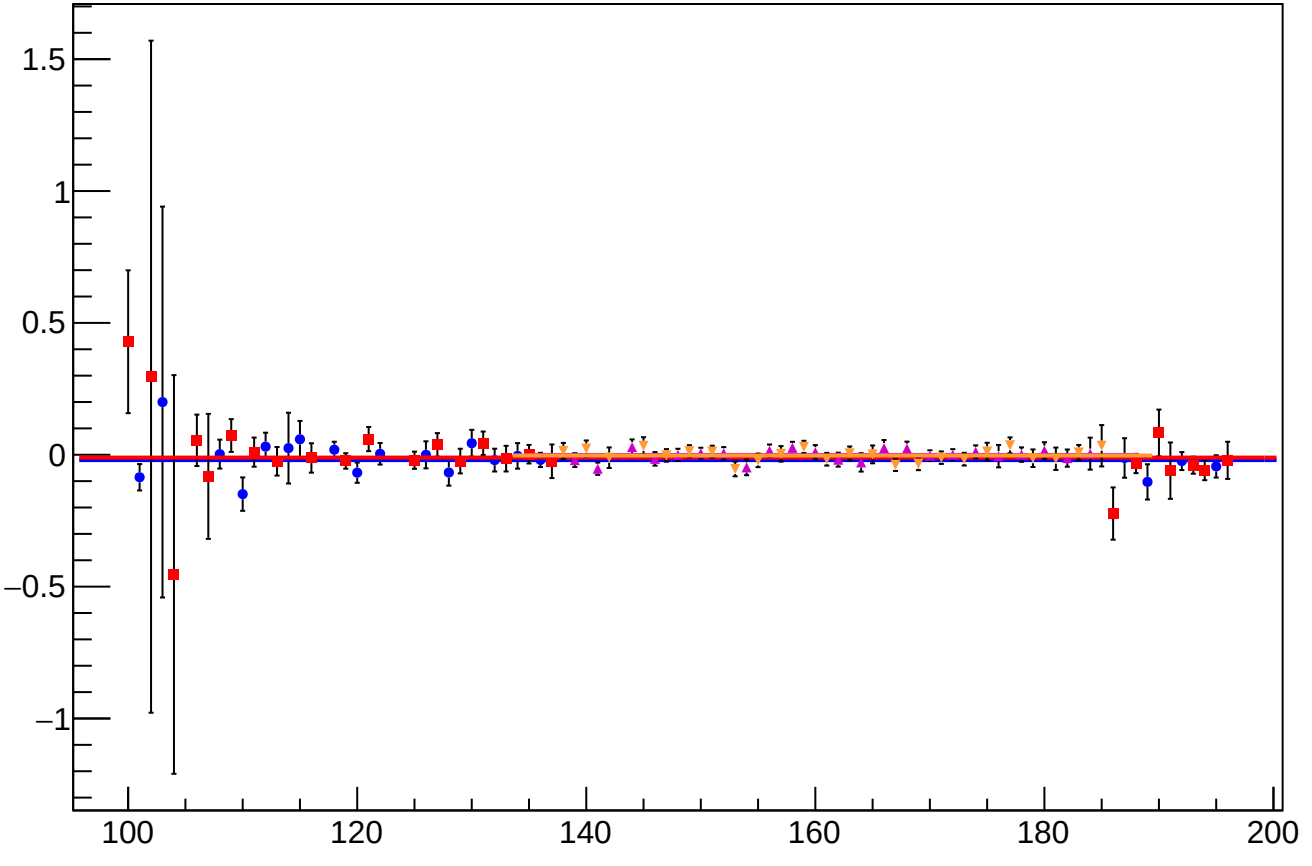
Right: 0.001+/-0.000 $\chi^2$/NDF: 10076926.0/44

In: 0.001+/-0.000 $\chi^2$/NDF:21560908.5/42

Out: 0.001+/-0.000 $\chi^2$/NDF:21598026.2/48

All: 0.001+/-0.000 $\chi^2$/NDF: 43374281.2/91

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.010 $\chi^2$/NDF: 16.6/19

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.3/23

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 19.9/24

Left In: -0.001+/-0.005 $\chi^2$/NDF:14.9/22

Left: -0.002+/-0.004 $\chi^2$/NDF: 31.3/46

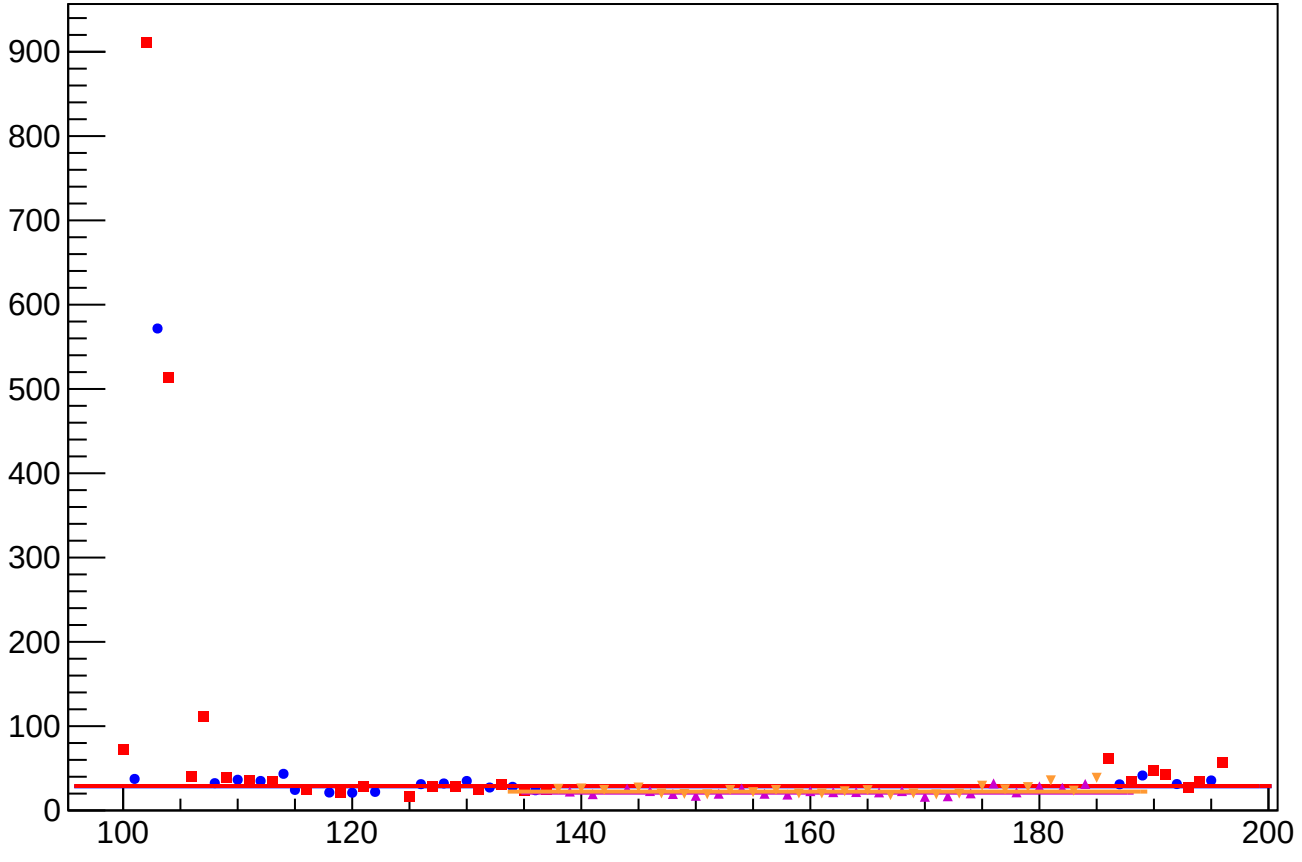
Right: -0.015+/-0.007 $\chi^2$/NDF: 37.0/44

In: -0.005+/-0.005 $\chi^2$/NDF:34.3/42

Out: -0.005+/-0.005 $\chi^2$/NDF:36.7/48

All: -0.005+/-0.003 $\chi^2$/NDF: 71.0/91

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.587+/-0.007 $\chi^2$/NDF: 1737077.4/19

Left Out: 22.355+/-0.004 $\chi^2$/NDF:816044.6/23

Right Out: 29.013+/-0.007 $\chi^2$/NDF: 3444073.5/24

Left In: 21.099+/-0.004 $\chi^2$/NDF:819268.9/22

Left: 21.703+/-0.003 $\chi^2$/NDF: 1686066.1/46

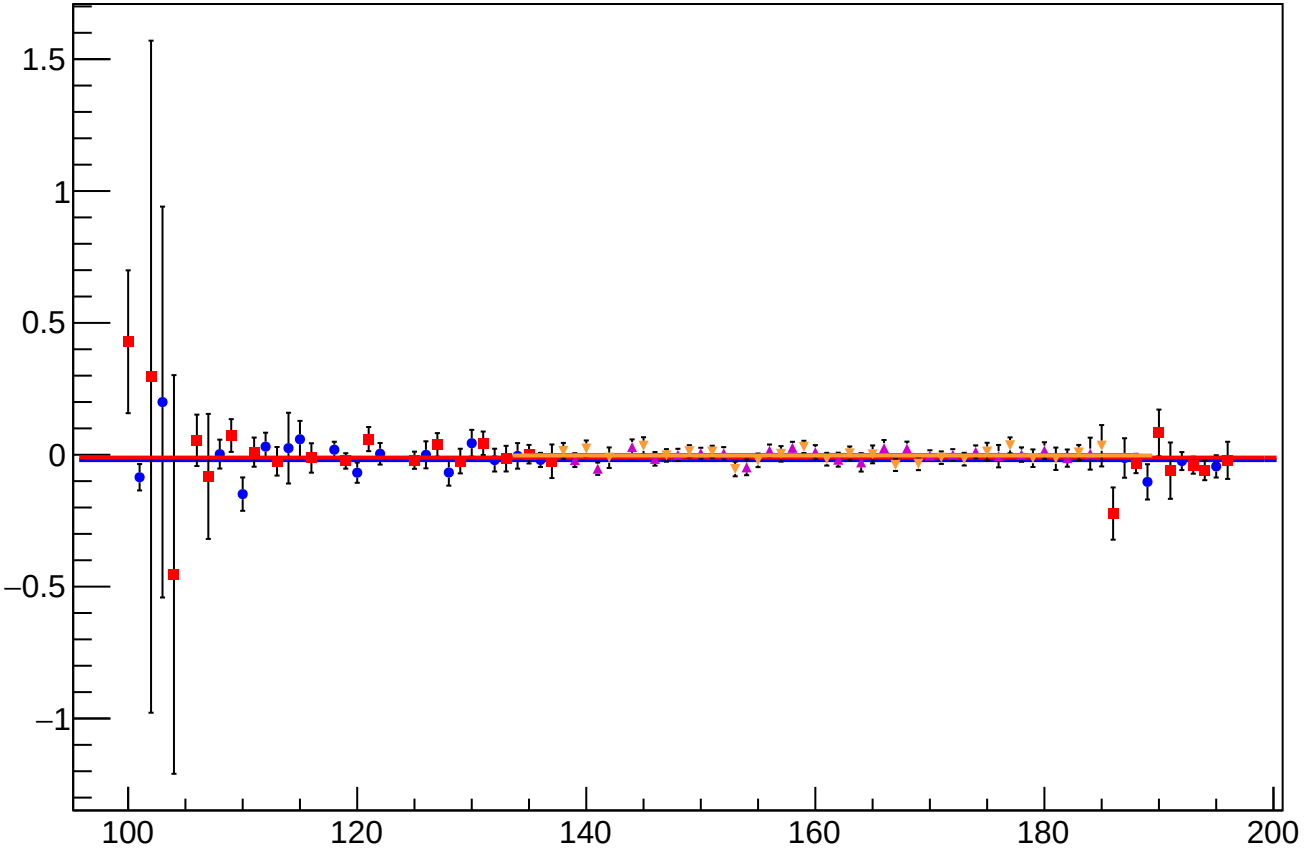
Right: 28.806+/-0.005 $\chi^2$/NDF: 5182886.4/44

In: 22.728+/-0.003 $\chi^2$/NDF:3372910.6/42

Out: 23.962+/-0.004 $\chi^2$/NDF:4922385.8/48

All: 23.330+/-0.002 $\chi^2$/NDF: 8358885.1/91

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.010 $\chi^2$/NDF: 16.6/19

Left Out: -0.003+/-0.006 $\chi^2$/NDF:16.3/23

Right Out: -0.011+/-0.010 $\chi^2$/NDF: 19.9/24

Left In: -0.001+/-0.005 $\chi^2$/NDF:14.9/22

Left: -0.002+/-0.004 $\chi^2$/NDF: 31.3/46

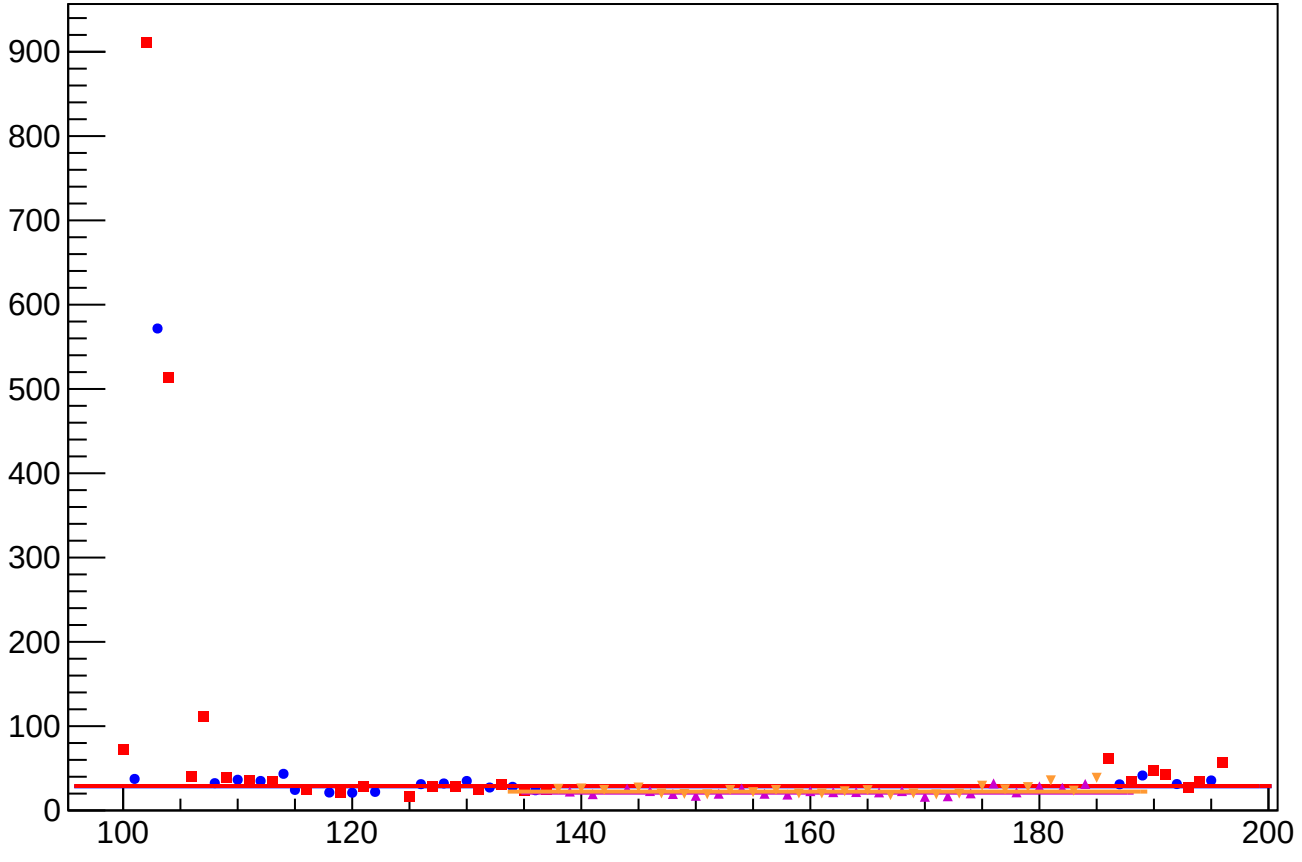
Right: -0.015+/-0.007 $\chi^2$/NDF: 37.0/44

In: -0.005+/-0.005 $\chi^2$/NDF:34.3/42

Out: -0.005+/-0.005 $\chi^2$/NDF:36.7/48

All: -0.005+/-0.003 $\chi^2$/NDF: 71.0/91

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.587+/-0.007 $\chi^2$/NDF: 1737077.4/19

Left Out: 22.355+/-0.004 $\chi^2$/NDF:816044.6/23

Right Out: 29.013+/-0.007 $\chi^2$/NDF: 3444073.5/24

Left In: 21.099+/-0.004 $\chi^2$/NDF:819268.9/22

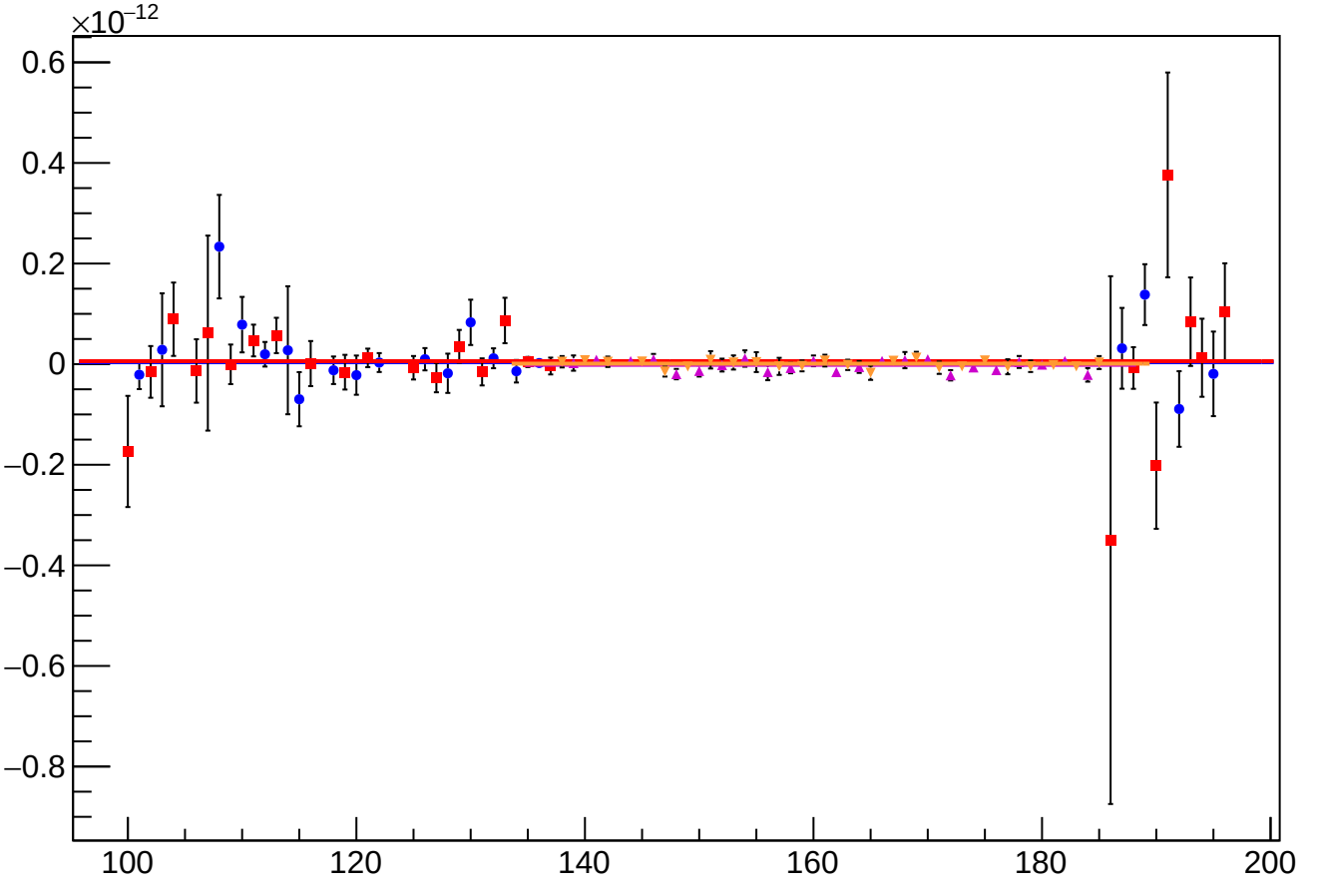
Left: 21.703+/-0.003 $\chi^2$/NDF: 1686066.1/46

Right: 28.806+/-0.005 $\chi^2$/NDF: 5182886.4/44

In: 22.728+/-0.003 $\chi^2$/NDF:3372910.6/42

Out: 23.962+/-0.004 $\chi^2$/NDF:4922385.8/48

All: 23.330+/-0.002 $\chi^2$/NDF: 8358885.1/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.7/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.8/22

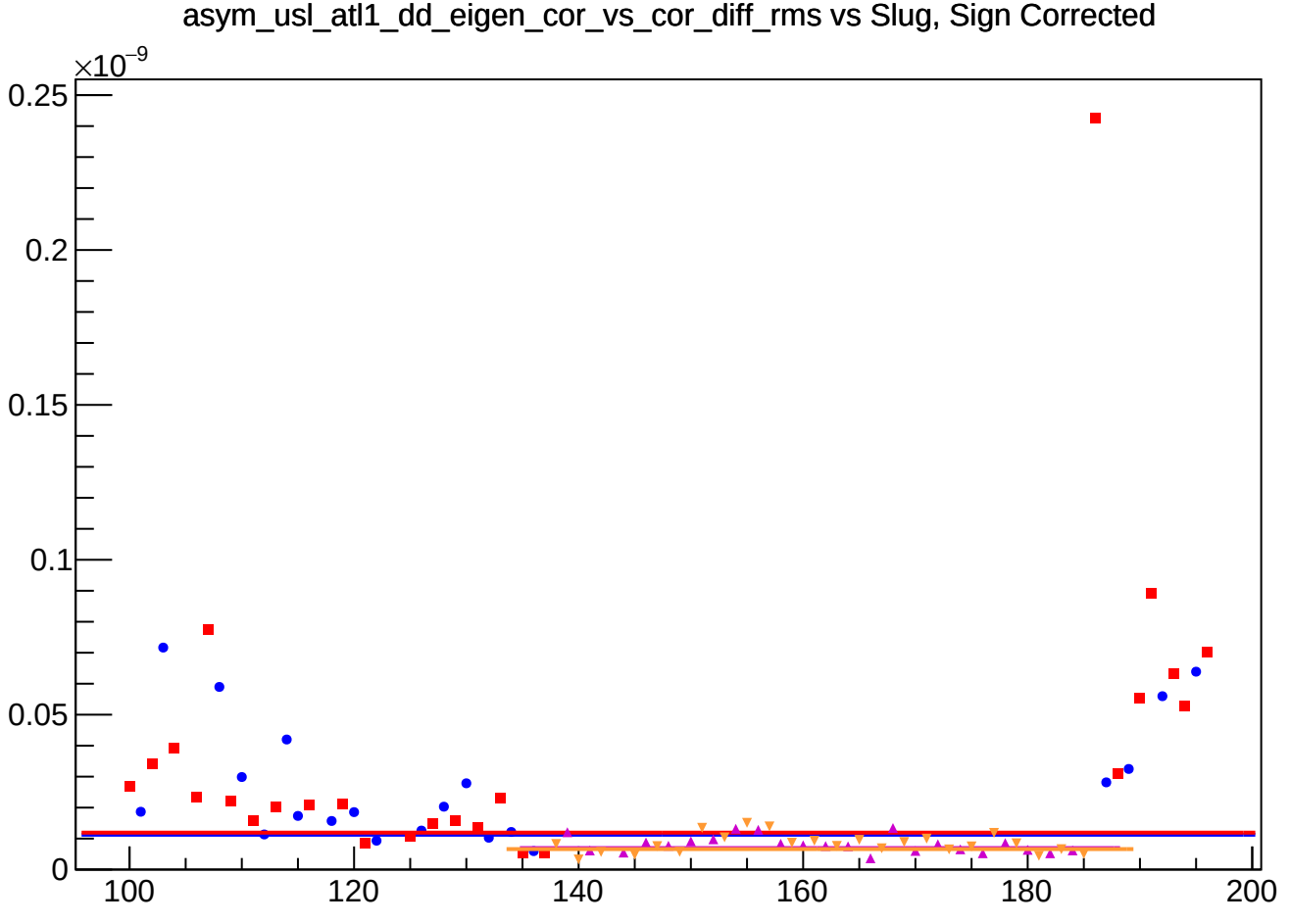
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.0/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 45.5/44

In: -0.000+/-0.000 $\chi^2$/NDF:48.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:35.9/48

All: 0.000+/-0.000 $\chi^2$/NDF: 84.8/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4659803.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3457171.1/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6176939.2/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:2315472.3/22

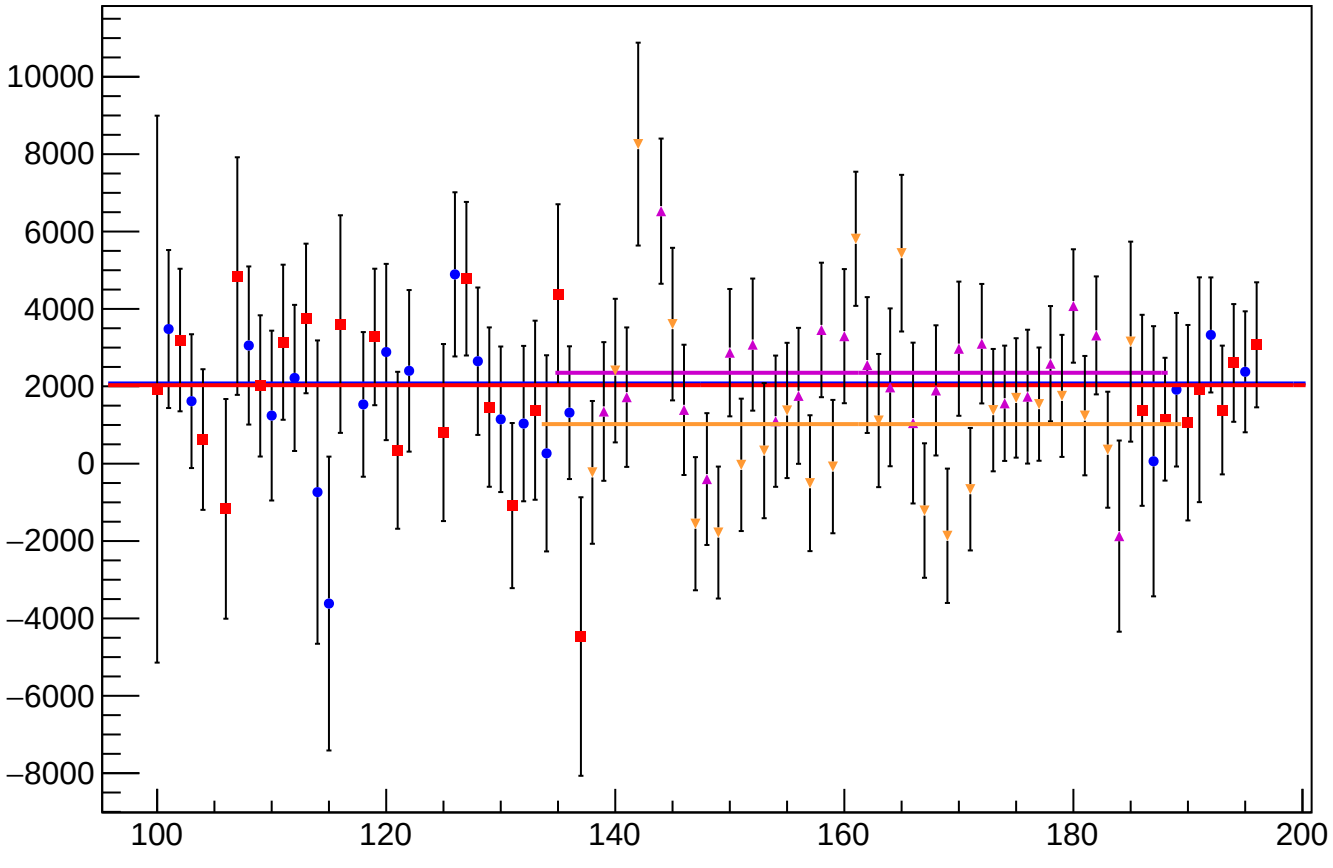
Left: 0.000+/-0.000 $\chi^2$/NDF: 5798902.3/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 10850014.9/44

In: 0.000+/-0.000 $\chi^2$/NDF:7998105.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11059022.3/48

All: 0.000+/-0.000 $\chi^2$/NDF: 19080646.3/91




Right In: 2073.118+/-453.396 $\chi^2$/NDF: 8.1/19

Left Out: 1022.603+/-353.459 $\chi^2$/NDF:36.4/23

Right Out: 2028.637+/-418.261 $\chi^2$/NDF: 15.7/24

Left In: 2349.189+/-357.068 $\chi^2$/NDF:16.0/22

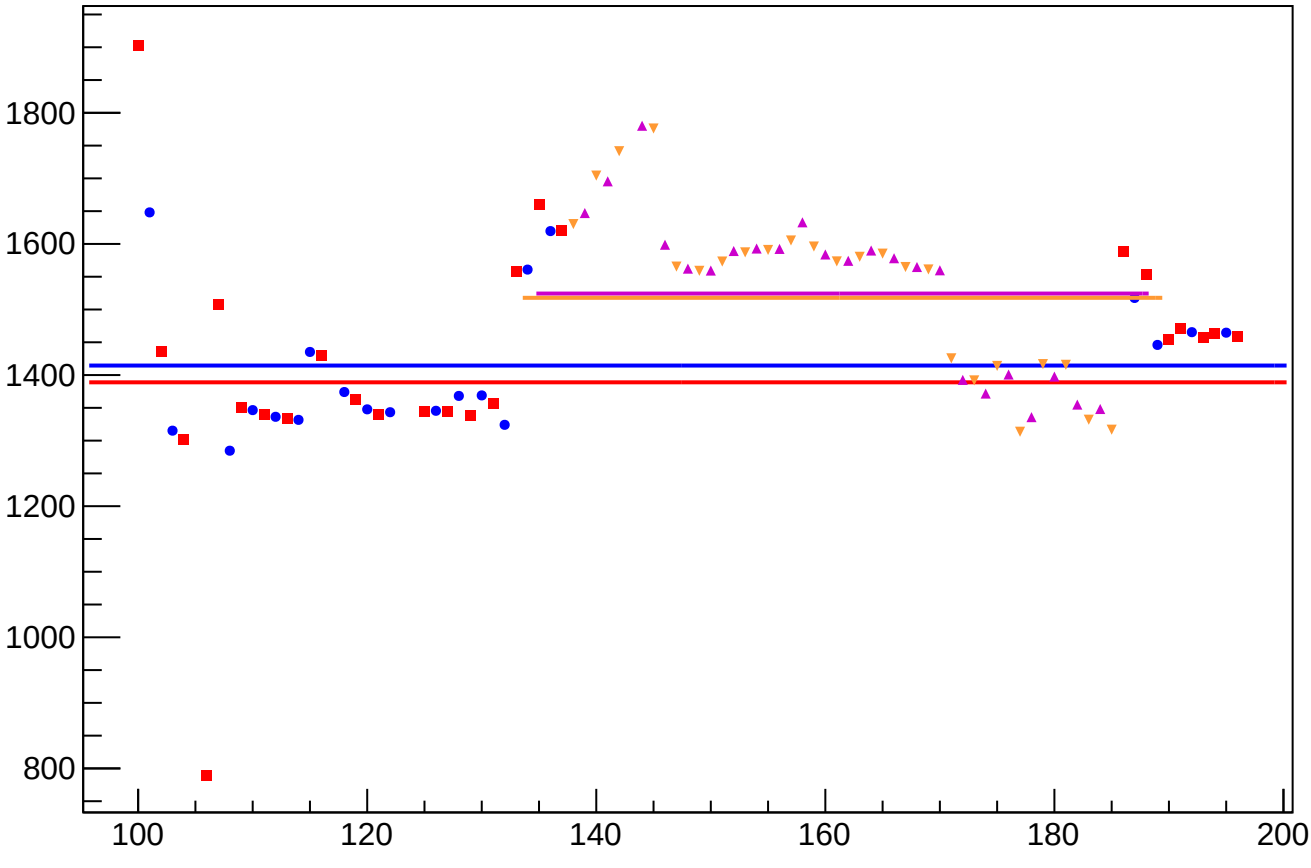
Left: 1679.158+/-251.199 $\chi^2$/NDF: 59.4/46

Right: 2049.088+/-307.427 $\chi^2$/NDF: 23.8/44

In: 2243.509+/-280.520 $\chi^2$/NDF:24.3/42

Out: 1441.734+/-269.970 $\chi^2$/NDF:55.5/48

All: 1827.262+/-194.520 $\chi^2$/NDF: 84.1/91




Right In: 1414.514+/-0.321 $\chi^2$/NDF: 102532.2/19

Left Out: 1517.815+/-0.250 $\chi^2$/NDF:233957.9/23

Right Out: 1388.922+/-0.290 $\chi^2$/NDF: 387669.0/24

Left In: 1524.314+/-0.252 $\chi^2$/NDF:224321.2/22

Left: 1521.032+/-0.178 $\chi^2$/NDF: 458613.7/46

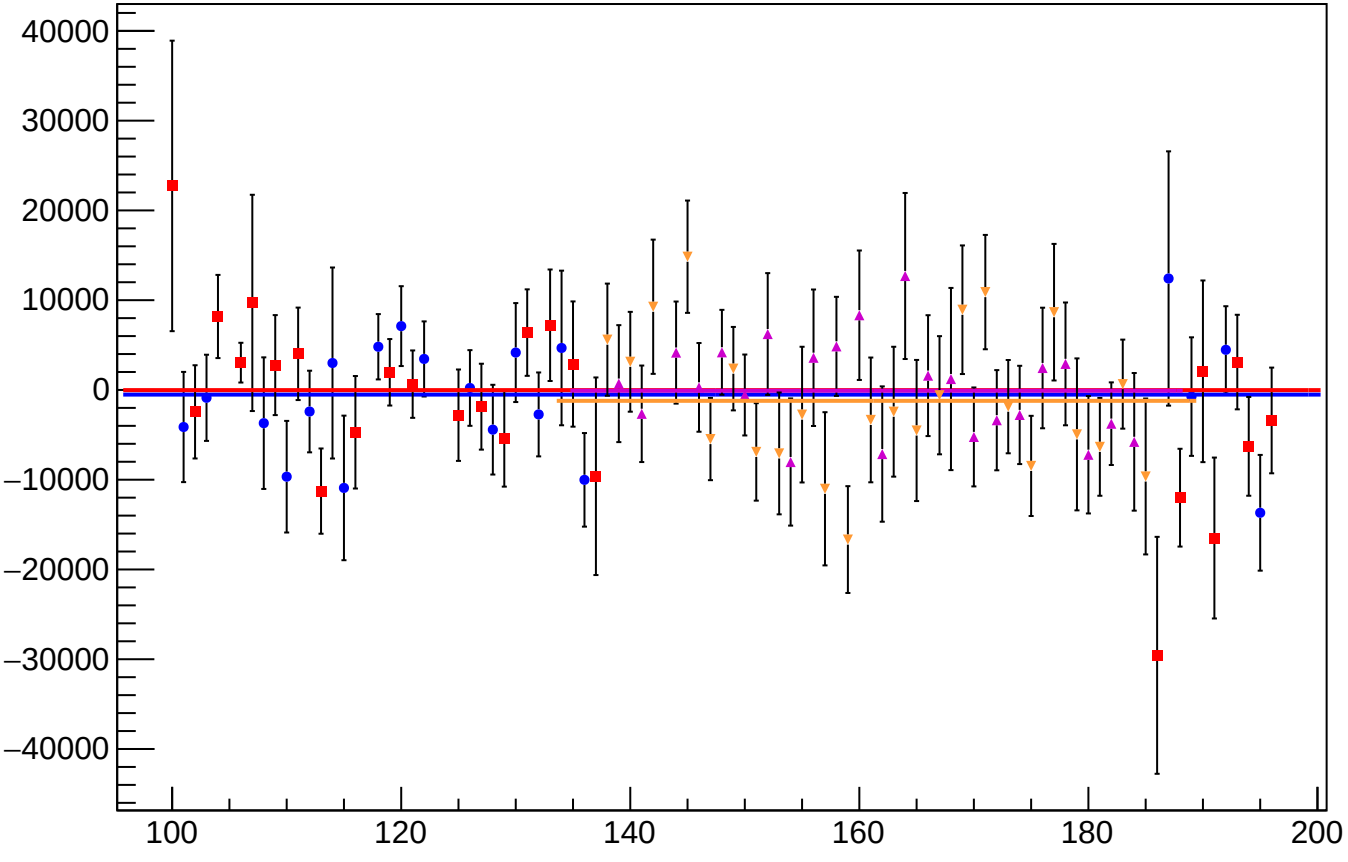
Right: 1400.424+/-0.215 $\chi^2$/NDF: 493709.5/44

In: 1482.283+/-0.198 $\chi^2$/NDF:399247.7/42

Out: 1462.807+/-0.189 $\chi^2$/NDF:735131.1/48

All: 1472.086+/-0.137 $\chi^2$/NDF: 1139425.9/91

asym_usl_atl2_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -518.185+/-1204.016 $\chi^2$/NDF: 22.0/19

Left Out: -1211.893+/-1268.315 $\chi^2$/NDF:33.2/23

Right Out: -19.538+/-1022.264 $\chi^2$/NDF: 36.0/24

Left In: -80.780+/-1264.327 $\chi^2$/NDF:13.2/22

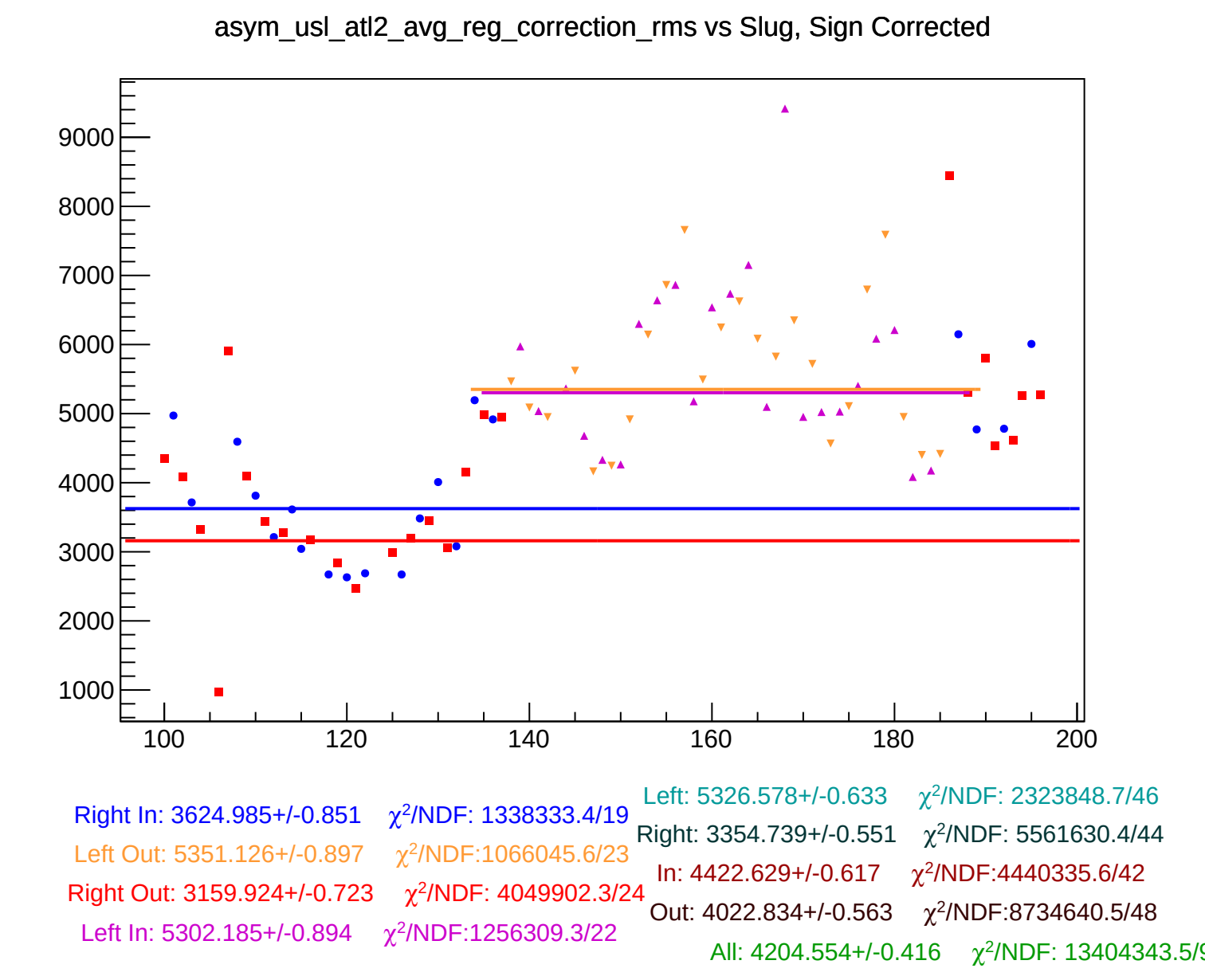
Left: -644.555+/-895.421 $\chi^2$/NDF: 46.8/46

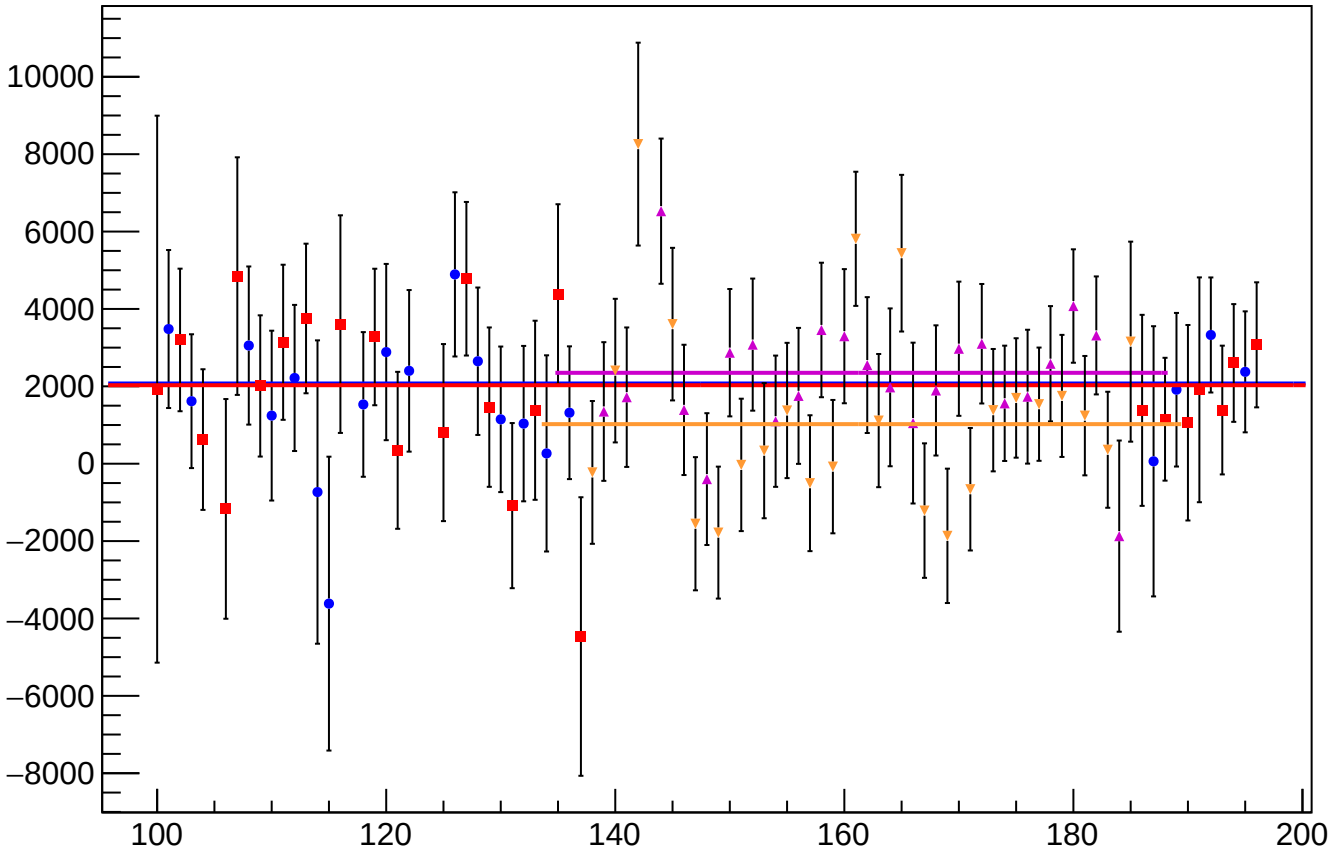
Right: -228.422+/-779.270 $\chi^2$/NDF: 58.1/44

In: -310.164+/-871.910 $\chi^2$/NDF:35.2/42

Out: -489.095+/-795.919 $\chi^2$/NDF:69.8/48

All: -407.765+/-587.832 $\chi^2$/NDF: 105.1/91


asym_usl_atl2_avg_reg_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 3624.985+/-0.851 χ²/NDF: 1338333.4/19
Left Out: 5351.126+/-0.897 χ²/NDF:1066045.6/23
Right Out: 3159.924+/-0.723 χ²/NDF: 4049902.3/24
Left In: 5302.185+/-0.894 χ²/NDF:1256309.3/22
Left: 5326.578+/-0.633 χ²/NDF: 2323848.7/46
Right: 3354.739+/-0.551 χ²/NDF: 5561630.4/44
In: 4422.629+/-0.617 χ²/NDF:4440335.6/42
Out: 4022.834+/-0.563 χ²/NDF:8734640.5/48
All: 4204.554+/-0.416 χ²/NDF: 13404343.5/9




Right In: 2073.156+/-453.396 $\chi^2$/NDF: 8.1/19

Left Out: 1022.634+/-353.459 $\chi^2$/NDF:36.4/23

Right Out: 2028.774+/-418.262 $\chi^2$/NDF: 15.7/24

Left In: 2349.186+/-357.068 $\chi^2$/NDF:16.0/22

Left: 1679.172+/-251.199 $\chi^2$/NDF: 59.4/46

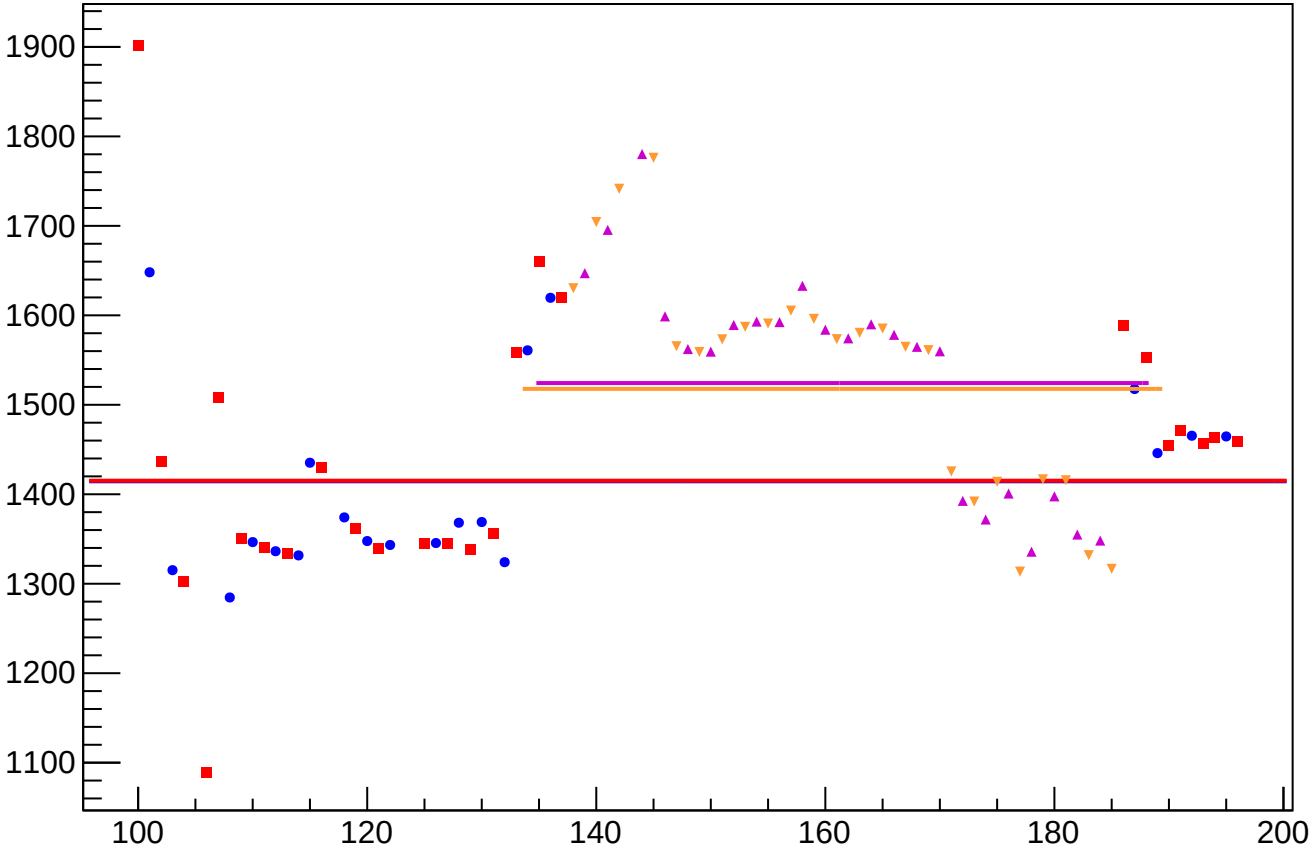
Right: 2049.179+/-307.428 $\chi^2$/NDF: 23.8/44

In: 2243.522+/-280.520 $\chi^2$/NDF:24.3/42

Out: 1441.807+/-269.971 $\chi^2$/NDF:55.5/48

All: 1827.306+/-194.521 $\chi^2$/NDF: 84.1/91

# cor_asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 1414.514+/-0.321 $\chi^2$/NDF: 102532.2/19

Left Out: 1517.815+/-0.250 $\chi^2$/NDF:233957.9/23

Right Out: 1415.163+/-0.293 $\chi^2$/NDF: 156578.4/24

Left In: 1524.314+/-0.252 $\chi^2$/NDF:224321.2/22

Left: 1521.032+/-0.178 $\chi^2$/NDF: 458613.6/46

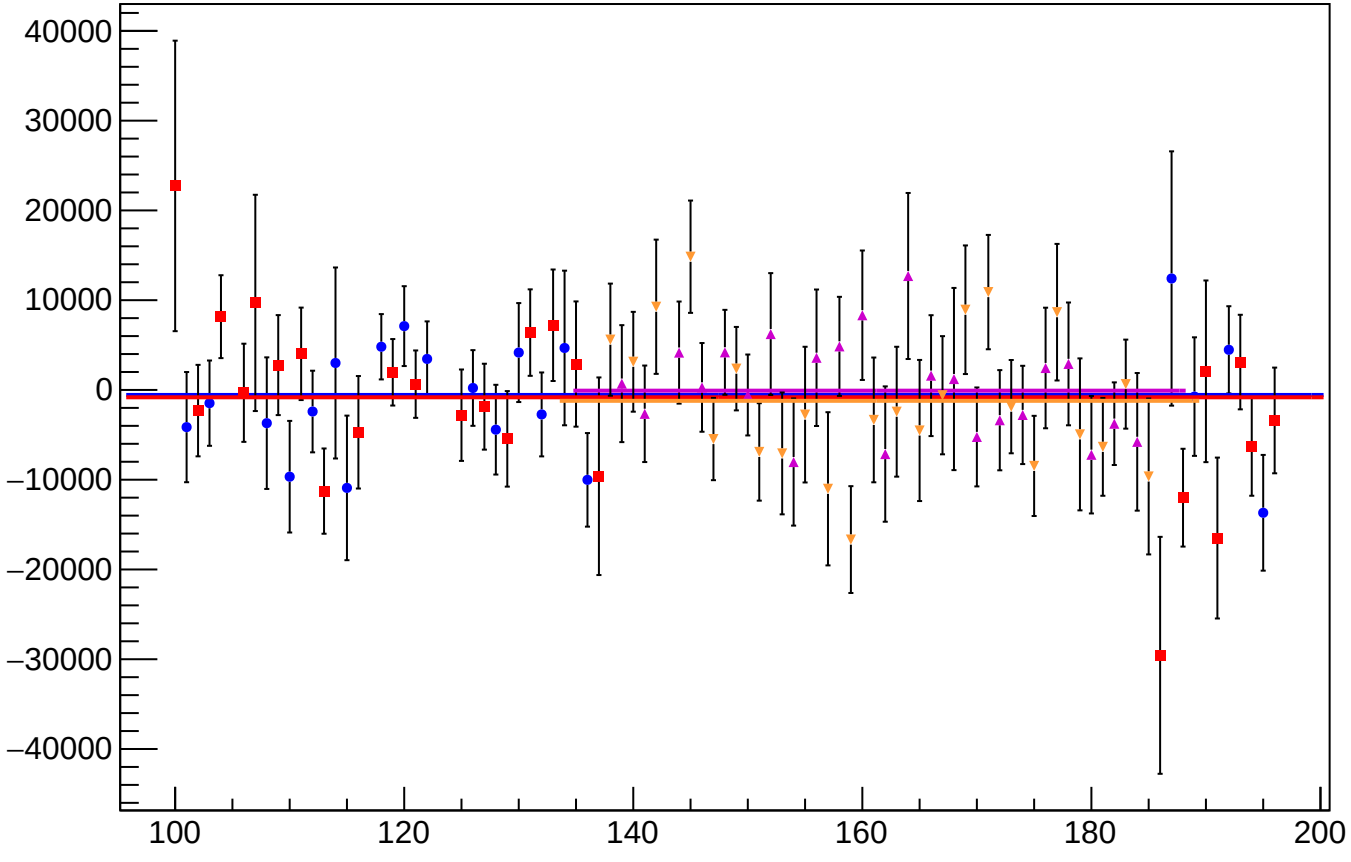
Right: 1414.867+/-0.216 $\chi^2$/NDF: 259112.9/44

In: 1482.283+/-0.198 $\chi^2$/NDF:399247.9/42

Out: 1474.614+/-0.190 $\chi^2$/NDF:461530.4/48

All: 1478.287+/-0.137 $\chi^2$/NDF: 861557.0/91

asym_usl_atl2_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -557.294+/-1203.225 $\chi^2$/NDF: 22.0/19

Left Out: -1211.889+/-1268.316 $\chi^2$/NDF:33.2/23

Right Out: -819.348+/-1126.420 $\chi^2$/NDF: 33.6/24

Left In: -80.689+/-1264.325 $\chi^2$/NDF:13.2/22

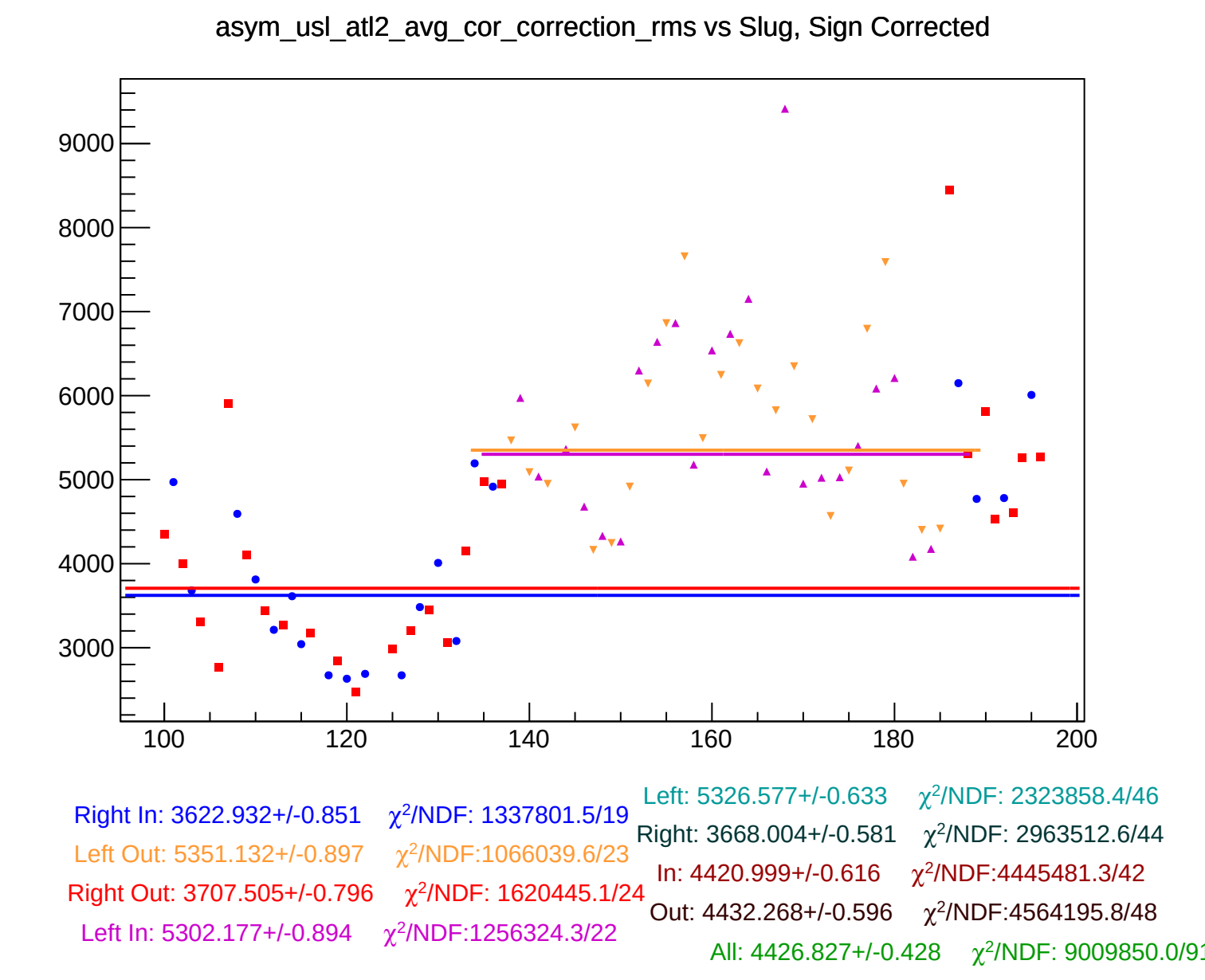
Left: -644.506+/-895.421 $\chi^2$/NDF: 46.8/46

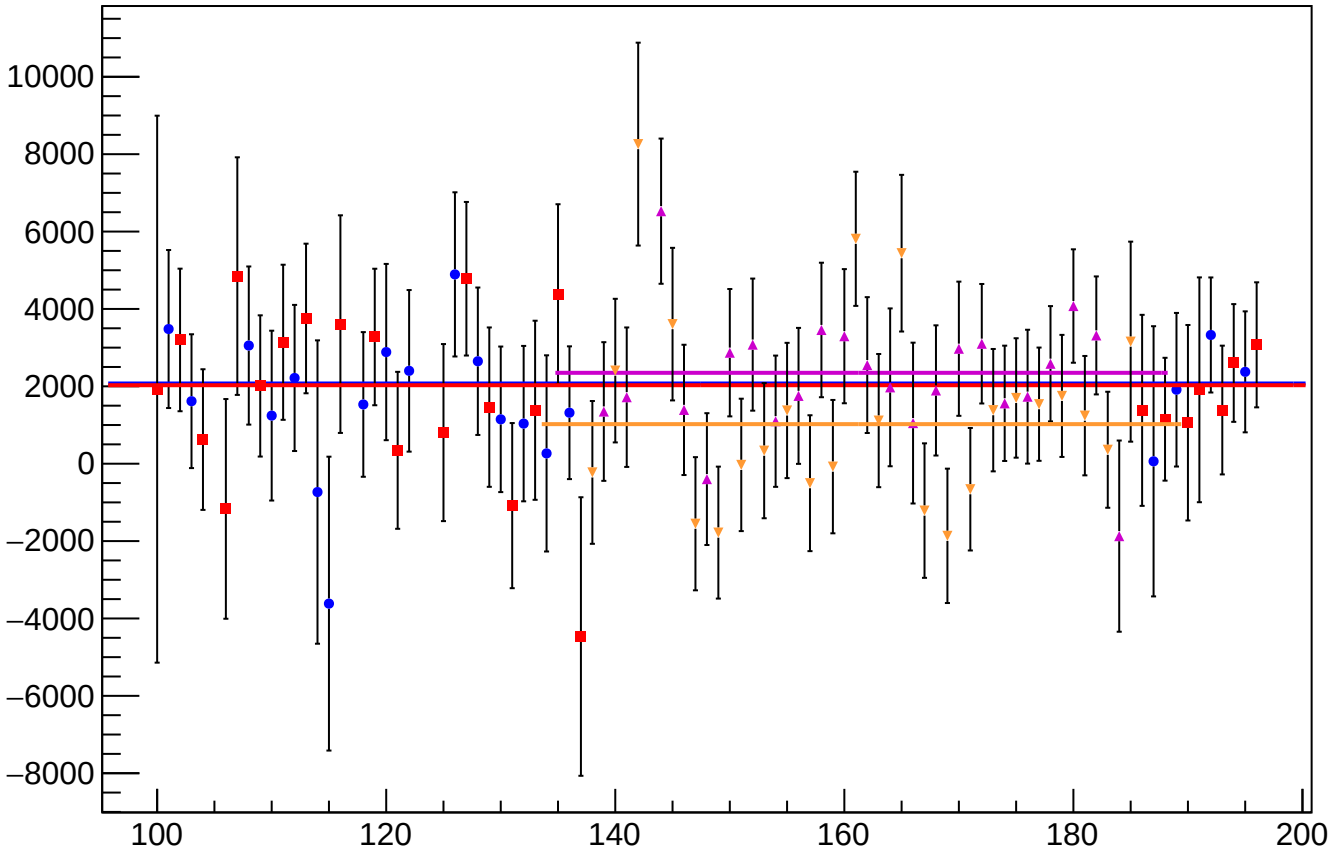
Right: -696.951+/-822.312 $\chi^2$/NDF: 55.7/44

In: -330.785+/-871.609 $\chi^2$/NDF:35.3/42

Out: -992.441+/-842.217 $\chi^2$/NDF:66.9/48

All: -672.957+/-605.662 $\chi^2$/NDF: 102.5/91


asym_usl_atl2_avg_cor_correction_rms vs Slug, Sign Corrected
9000
8000
7000
6000
5000
4000
3000
100
120
140
160
180
200
Right In: 3622.932+/-0.851 χ²/NDF: 1337801.5/19
Left Out: 5351.132+/-0.897 χ²/NDF:1066039.6/23
Right Out: 3707.505+/-0.796 χ²/NDF: 1620445.1/24
Left In: 5302.177+/-0.894 χ²/NDF:1256324.3/22
Left: 5326.577+/-0.633 χ²/NDF: 2323858.4/46
Right: 3668.004+/-0.581 χ²/NDF: 2963512.6/44
In: 4420.999+/-0.616 χ²/NDF:4445481.3/42
Out: 4432.268+/-0.596 χ²/NDF:4564195.8/48
All: 4426.827+/-0.428 χ²/NDF: 9009850.0/91




Right In: 2073.156+/-453.396 $\chi^2$/NDF: 8.1/19

Left Out: 1022.634+/-353.459 $\chi^2$/NDF:36.4/23

Right Out: 2028.774+/-418.262 $\chi^2$/NDF: 15.7/24

Left In: 2349.186+/-357.068 $\chi^2$/NDF:16.0/22

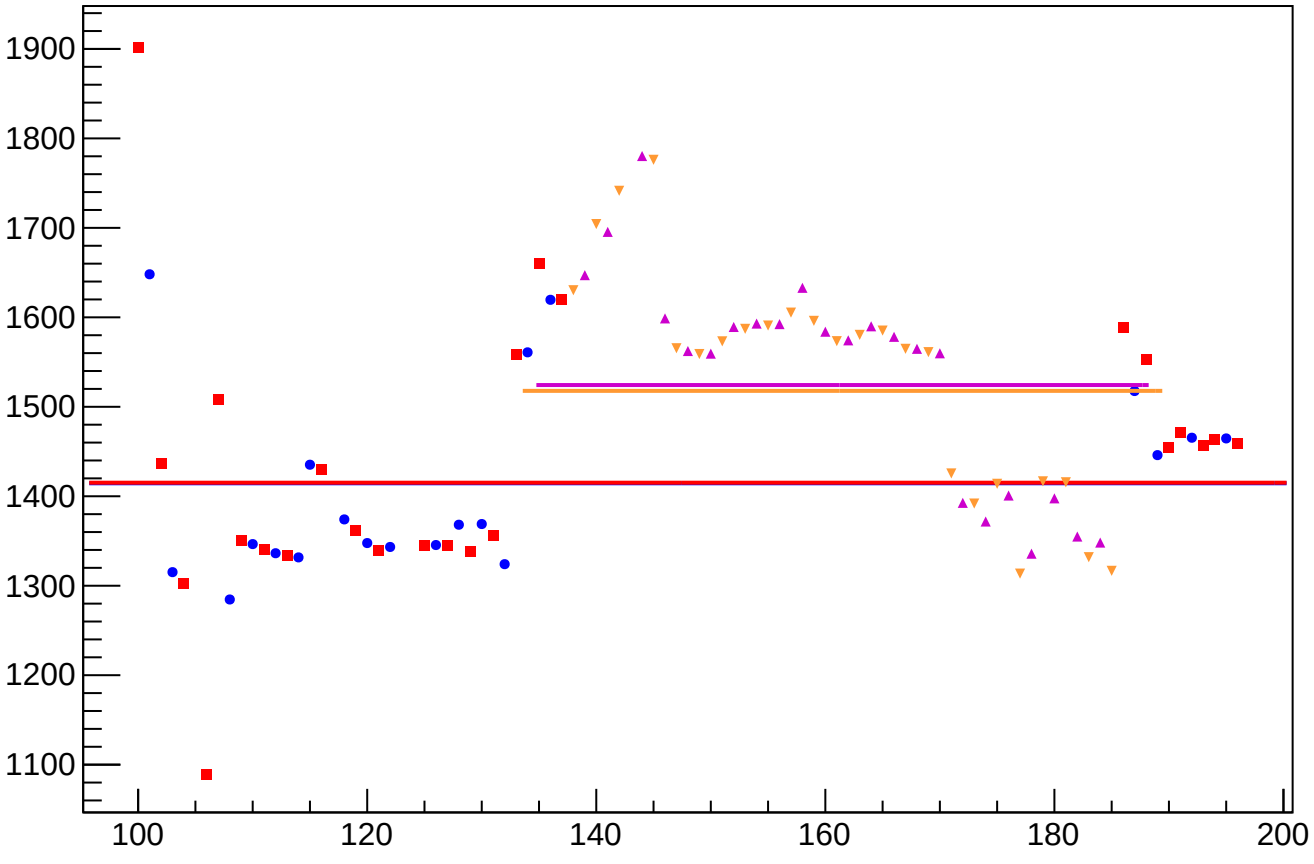
Left: 1679.172+/-251.199 $\chi^2$/NDF: 59.4/46

Right: 2049.179+/-307.428 $\chi^2$/NDF: 23.8/44

In: 2243.522+/-280.520 $\chi^2$/NDF:24.3/42

Out: 1441.807+/-269.971 $\chi^2$/NDF:55.5/48

All: 1827.306+/-194.521 $\chi^2$/NDF: 84.1/91




Right In: 1414.514+/-0.321 $\chi^2$/NDF: 102532.2/19

Left Out: 1517.815+/-0.250 $\chi^2$/NDF:233957.9/23

Right Out: 1415.163+/-0.293 $\chi^2$/NDF: 156578.4/24

Left In: 1524.314+/-0.252 $\chi^2$/NDF:224321.2/22

Left: 1521.032+/-0.178 $\chi^2$/NDF: 458613.6/46

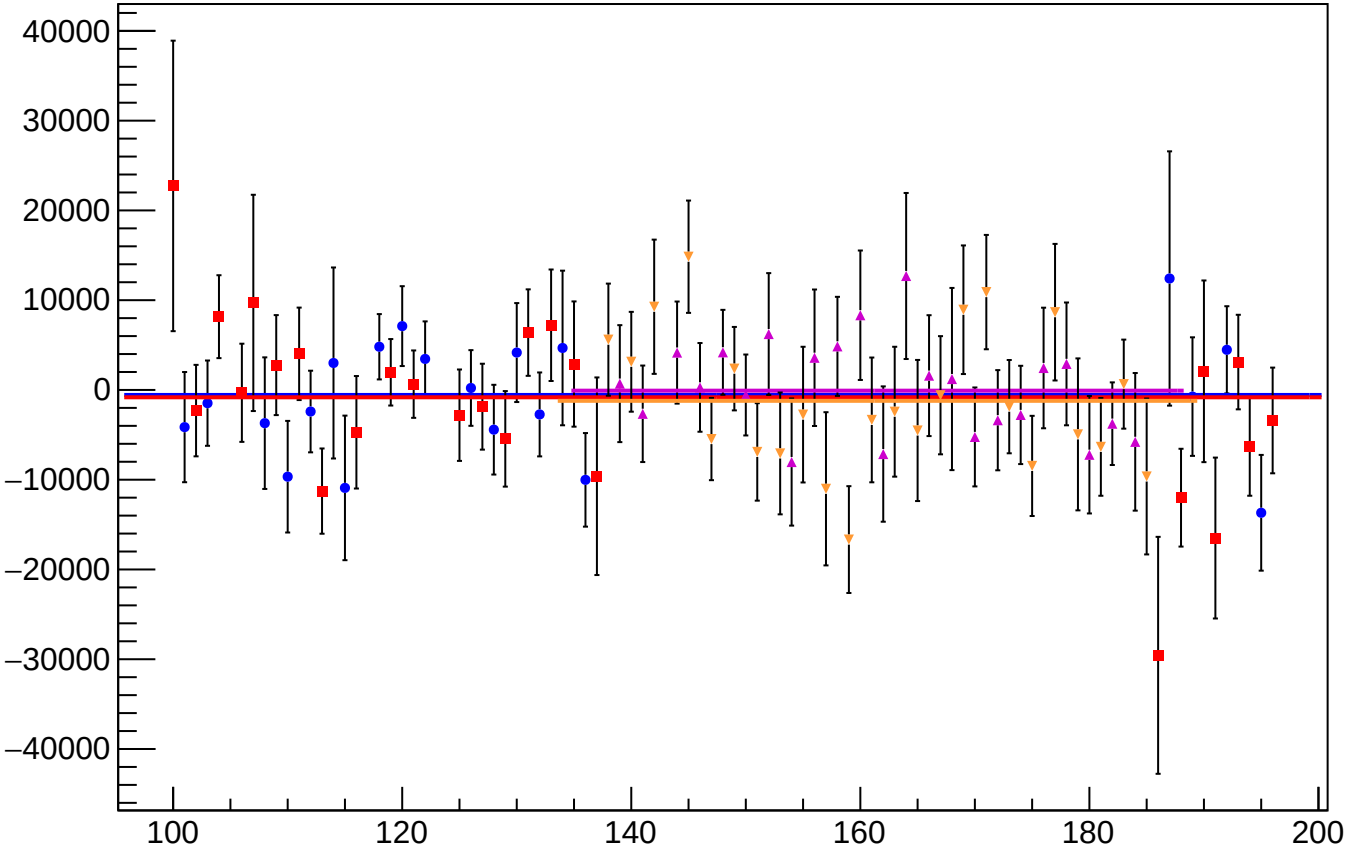
Right: 1414.867+/-0.216 $\chi^2$/NDF: 259112.9/44

In: 1482.283+/-0.198 $\chi^2$/NDF:399247.9/42

Out: 1474.614+/-0.190 $\chi^2$/NDF:461530.4/48

All: 1478.287+/-0.137 $\chi^2$/NDF: 861557.0/91

asym_usl_atl2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -557.294+/-1203.225 $\chi^2$/NDF: 22.0/19

Left Out: -1211.889+/-1268.316 $\chi^2$/NDF:33.2/23

Right Out: -819.348+/-1126.420 $\chi^2$/NDF: 33.6/24

Left In: -80.689+/-1264.325 $\chi^2$/NDF:13.2/22

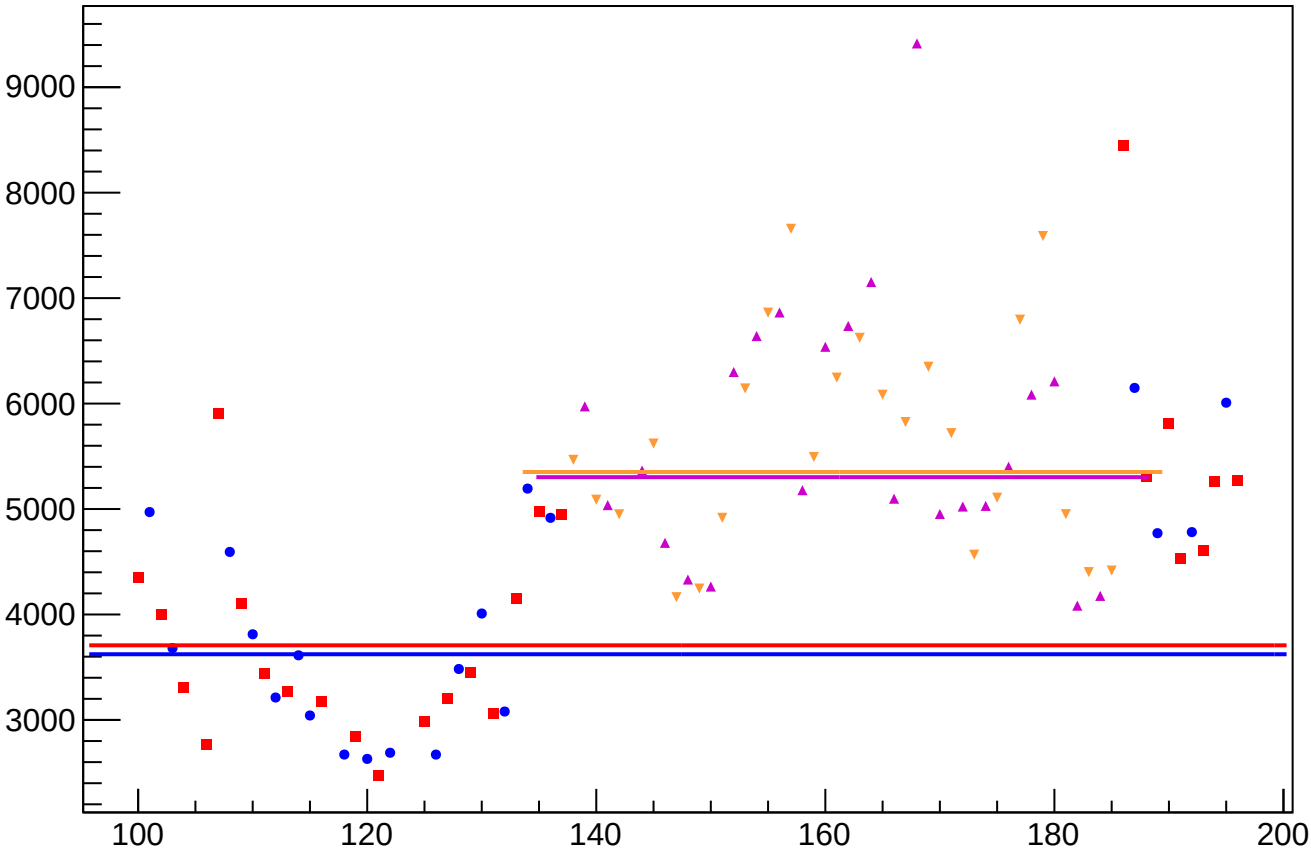
Left: -644.506+/-895.421 $\chi^2$/NDF: 46.8/46

Right: -696.951+/-822.312 $\chi^2$/NDF: 55.7/44

In: -330.785+/-871.609 $\chi^2$/NDF:35.3/42

Out: -992.441+/-842.217 $\chi^2$/NDF:66.9/48

All: -672.957+/-605.662 $\chi^2$/NDF: 102.5/91




Right In: 3622.932+/-0.851 $\chi^2$/NDF: 1337801.5/19

Left Out: 5351.132+/-0.897 $\chi^2$/NDF:1066039.6/23

Right Out: 3707.505+/-0.796 $\chi^2$/NDF: 1620445.1/24

Left In: 5302.177+/-0.894 $\chi^2$/NDF:1256324.3/22

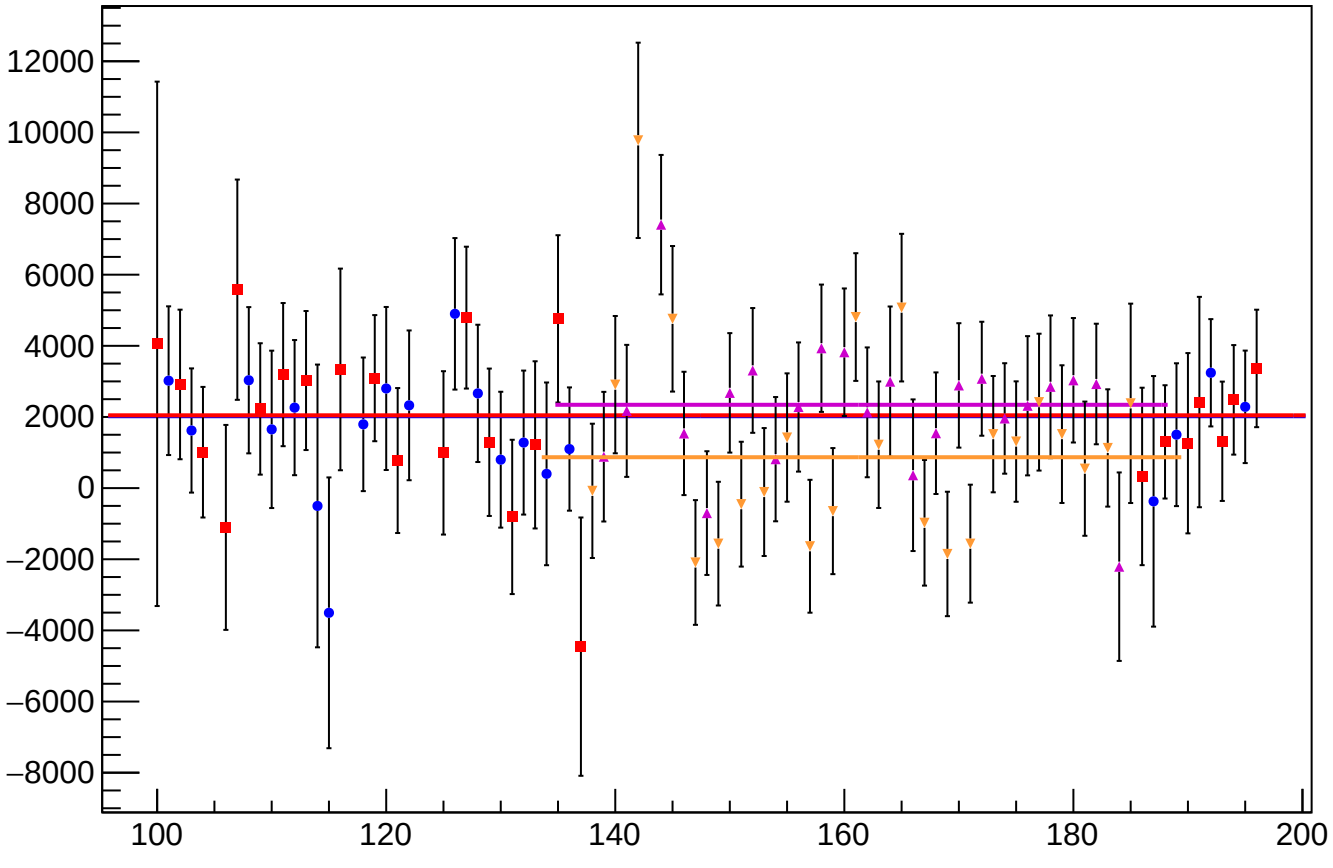
Left: 5326.577+/-0.633 $\chi^2$/NDF: 2323858.4/46

Right: 3668.004+/-0.581 $\chi^2$/NDF: 2963512.6/44

In: 4420.999+/-0.616 $\chi^2$/NDF:4445481.3/42

Out: 4432.268+/-0.596 $\chi^2$/NDF:4564195.8/48

All: 4426.827+/-0.428 $\chi^2$/NDF: 9009850.0/91




Right In: 2020.757+/-458.013 $\chi^2$/NDF: 7.6/19

Left Out: 868.415+/-377.179 $\chi^2$/NDF:39.7/23

Right Out: 2047.009+/-424.658 $\chi^2$/NDF: 14.9/24

Left In: 2342.303+/-378.114 $\chi^2$/NDF:18.0/22

Left: 1603.536+/-267.036 $\chi^2$/NDF: 65.4/46

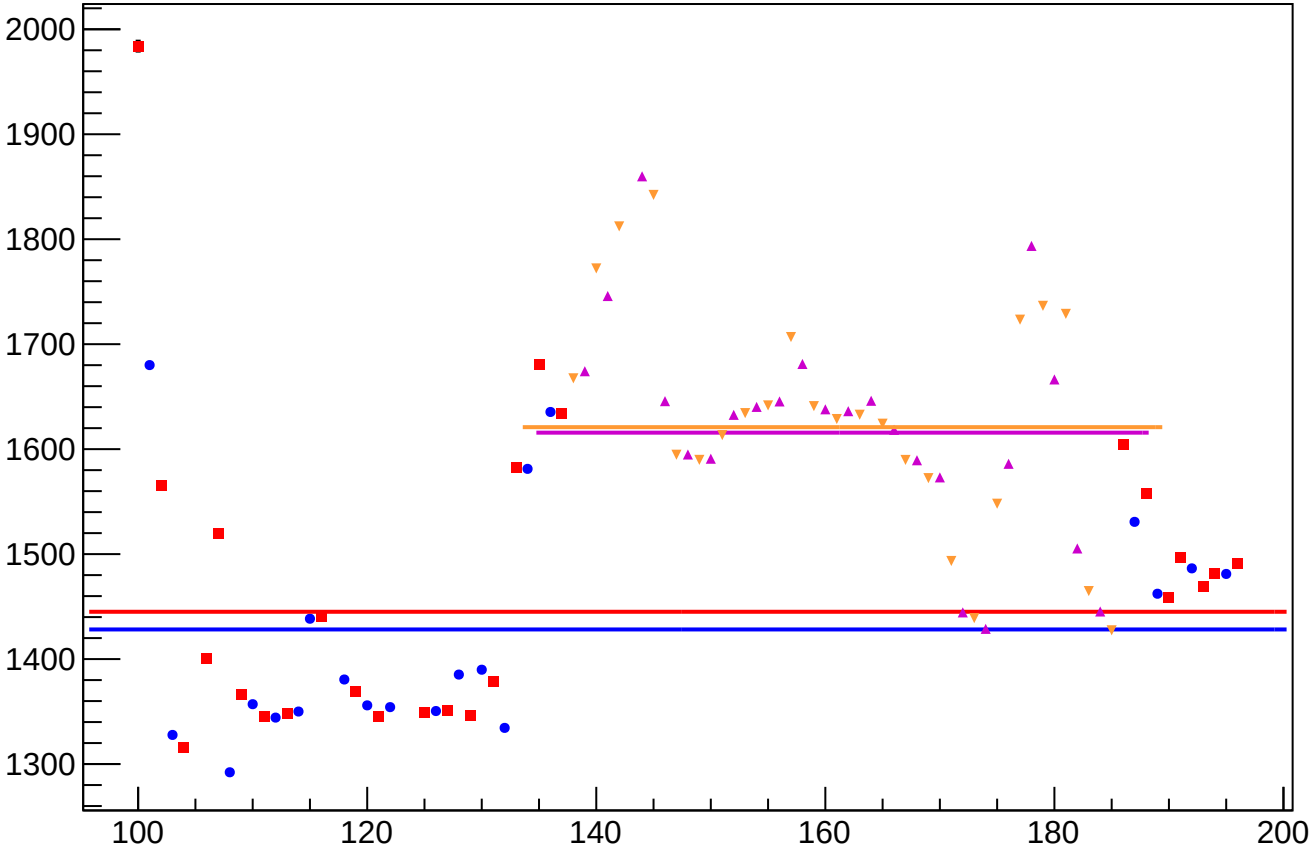
Right: 2034.874+/-311.403 $\chi^2$/NDF: 22.5/44

In: 2211.979+/-291.588 $\chi^2$/NDF:25.9/42

Out: 1388.169+/-282.004 $\chi^2$/NDF:59.0/48

All: 1786.314+/-202.710 $\chi^2$/NDF: 89.0/91

# dit_asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 1428.225+/-0.324 $\chi^2$/NDF: 108871.4/19

Left Out: 1620.945+/-0.267 $\chi^2$/NDF:141985.5/23

Right Out: 1445.073+/-0.300 $\chi^2$/NDF: 119461.5/24

Left In: 1615.705+/-0.267 $\chi^2$/NDF:137139.2/22

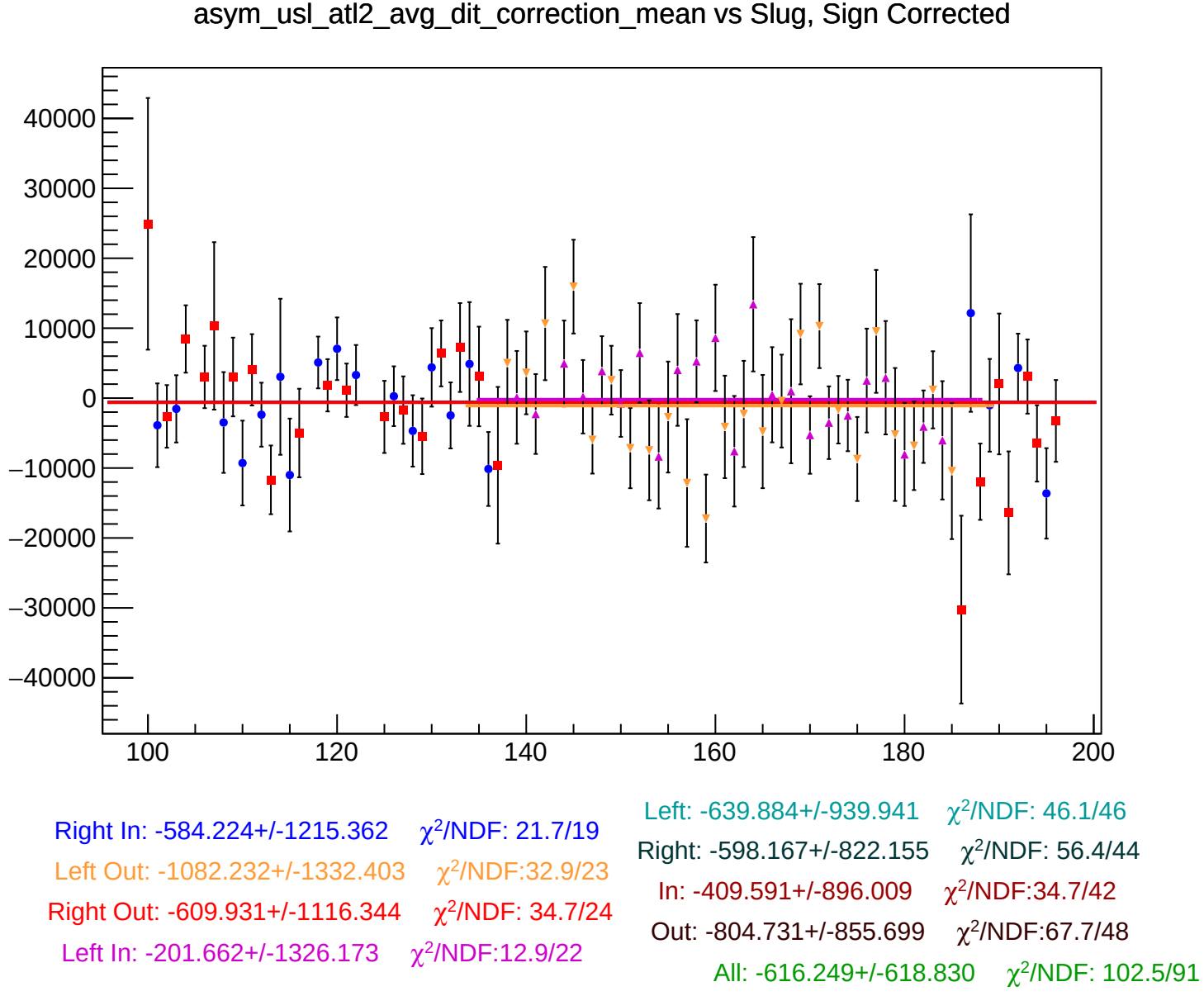
Left: 1618.331+/-0.189 $\chi^2$/NDF: 279317.2/46

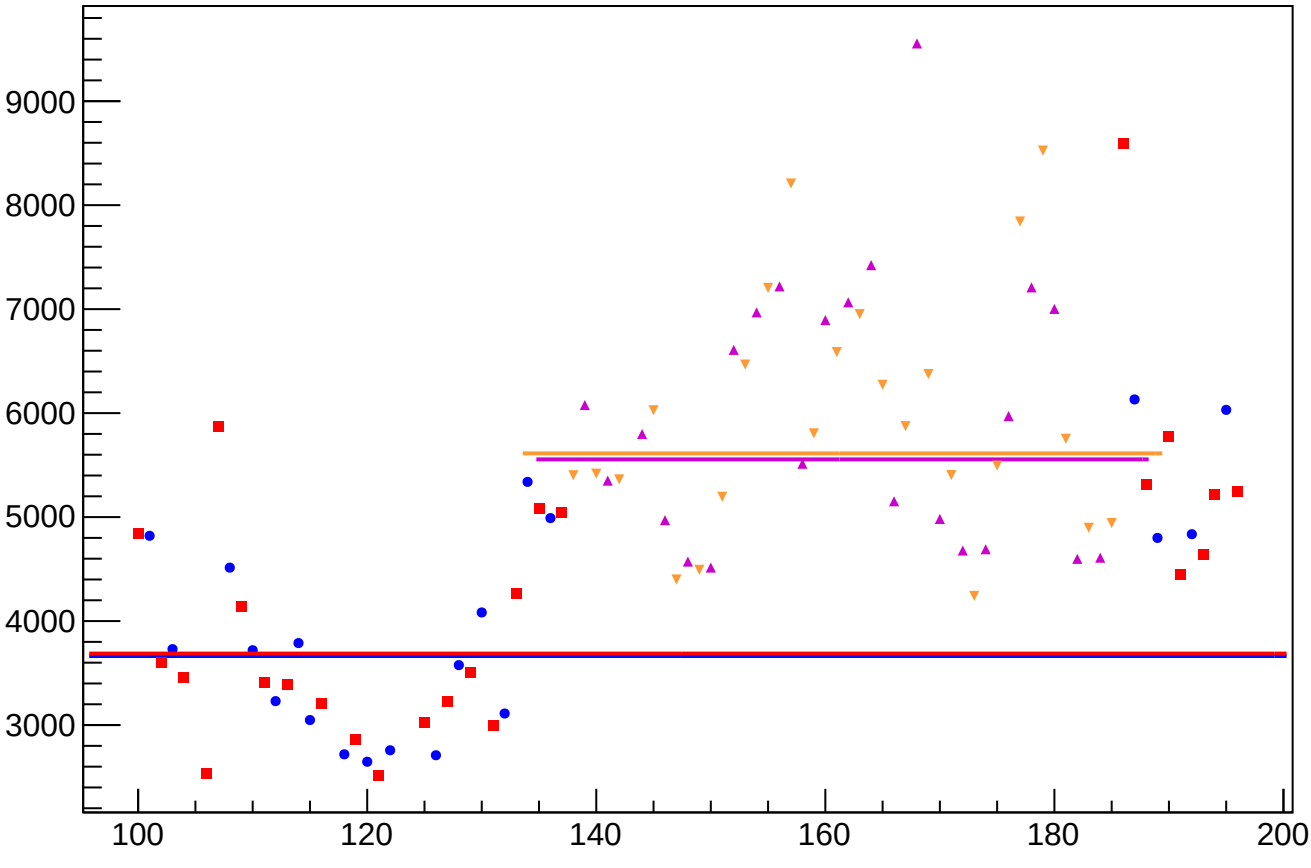
Right: 1437.299+/-0.220 $\chi^2$/NDF: 229790.5/44

In: 1539.718+/-0.206 $\chi^2$/NDF:445297.4/42

Out: 1543.237+/-0.199 $\chi^2$/NDF:453578.9/48

All: 1541.537+/-0.143 $\chi^2$/NDF: 899026.9/91


asym_usl_atl2_avg_dit_correction_mean vs Slug, Sign Corrected
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -584.224+/-1215.362 χ²/NDF: 21.7/19
Left Out: -1082.232+/-1332.403 χ²/NDF:32.9/23
Right Out: -609.931+/-1116.344 χ²/NDF: 34.7/24
Left In: -201.662+/-1326.173 χ²/NDF:12.9/22
Left: -639.884+/-939.941 χ²/NDF: 46.1/46
Right: -598.167+/-822.155 χ²/NDF: 56.4/44
In: -409.591+/-896.009 χ²/NDF:34.7/42
Out: -804.731+/-855.699 χ²/NDF:67.7/48
All: -616.249+/-618.830 χ²/NDF: 102.5/91




Right In: 3664.196+/-0.859 $\chi^2$/NDF: 1292956.3/19

Left Out: 5612.730+/-0.942 $\chi^2$/NDF:1188118.0/23

Right Out: 3687.367+/-0.789 $\chi^2$/NDF: 1663763.6/24

Left In: 5554.927+/-0.938 $\chi^2$/NDF:1332970.4/22

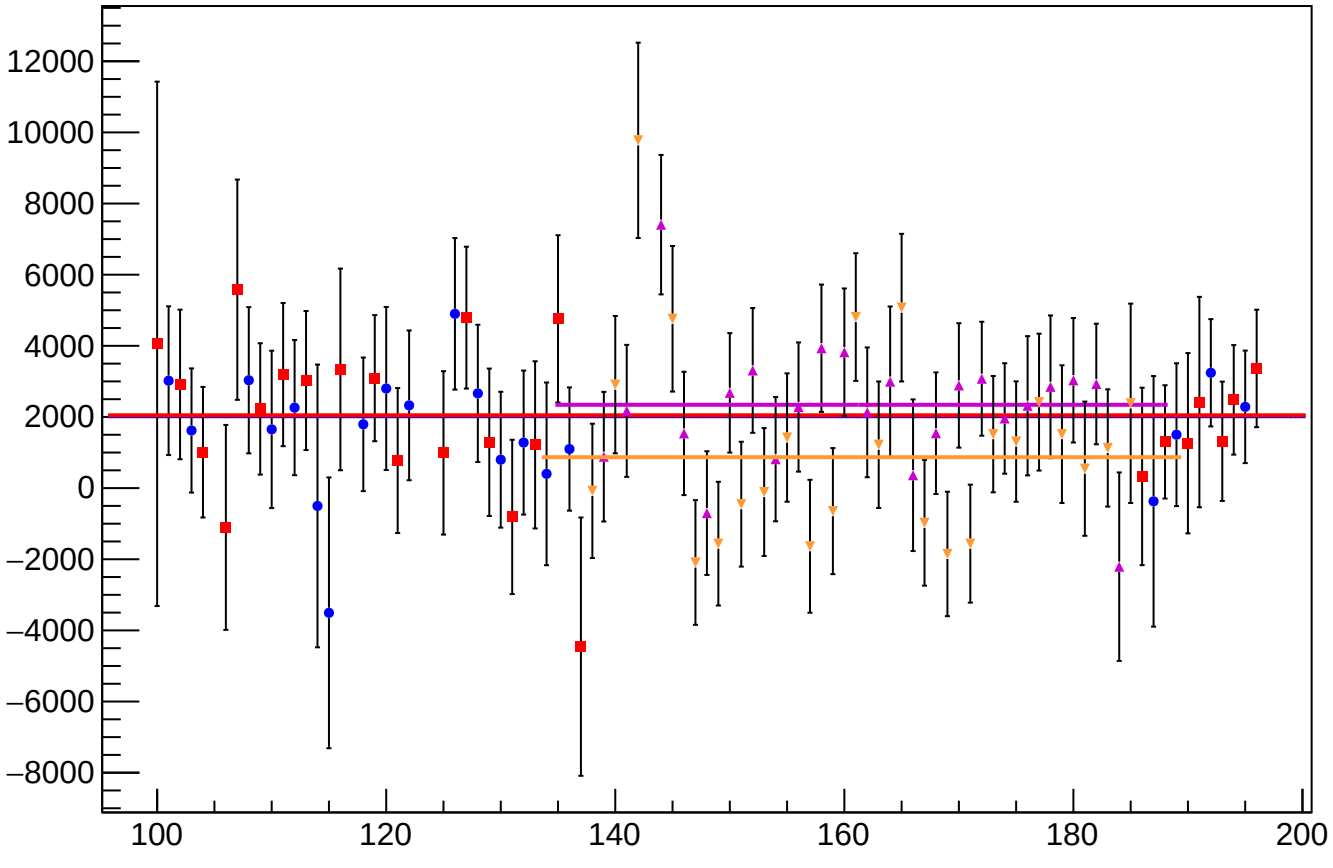
Left: 5583.693+/-0.665 $\chi^2$/NDF: 2522979.3/46

Right: 3676.764+/-0.581 $\chi^2$/NDF: 2957114.1/44

In: 4527.282+/-0.634 $\chi^2$/NDF:4835467.0/42

Out: 4481.481+/-0.605 $\chi^2$/NDF:5305628.9/48

All: 4503.328+/-0.438 $\chi^2$/NDF: 10143829.0/9




Right In: 2020.756+/-458.013 $\chi^2$/NDF: 7.6/19

Left Out: 868.410+/-377.180 $\chi^2$/NDF:39.7/23

Right Out: 2047.009+/-424.658 $\chi^2$/NDF: 14.9/24

Left In: 2342.303+/-378.114 $\chi^2$/NDF:18.0/22

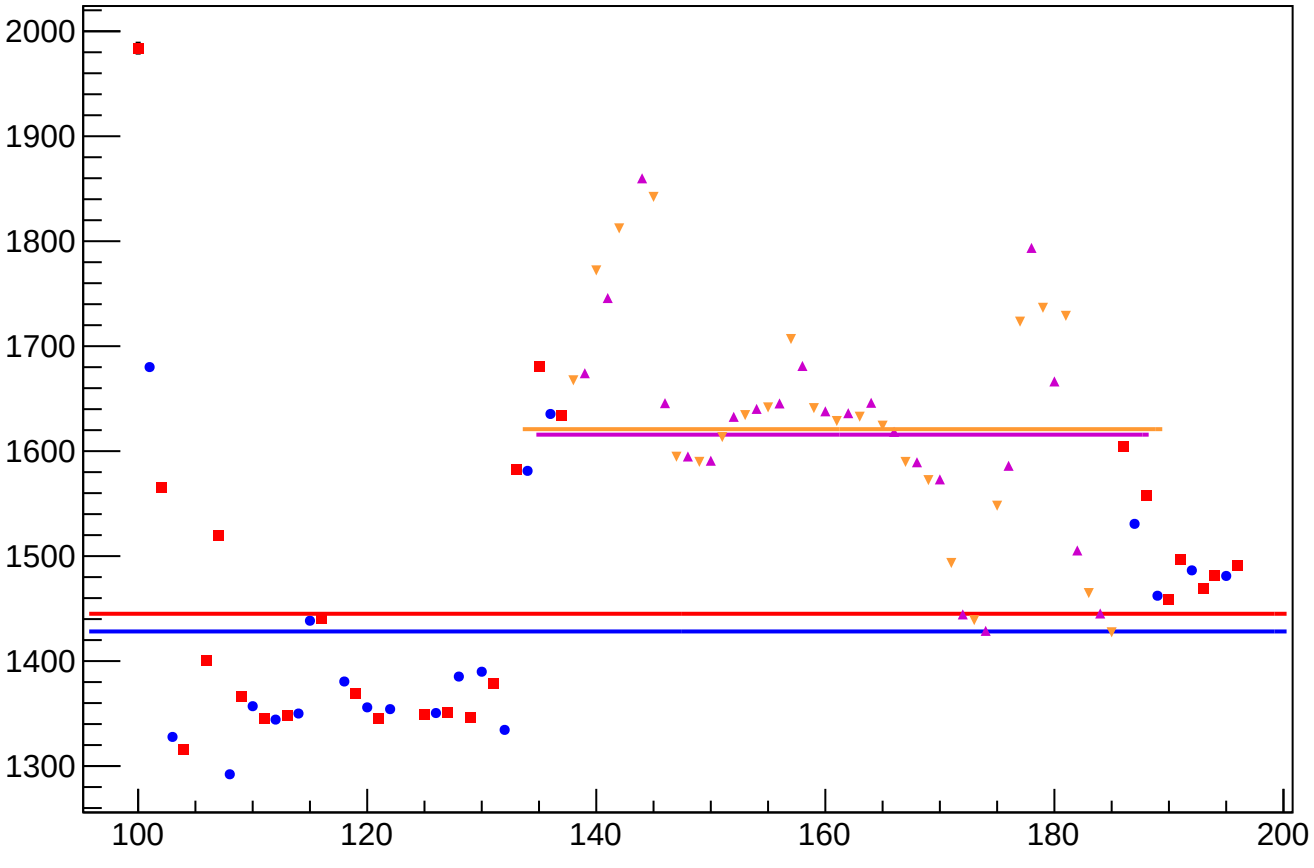
Left: 1603.533+/-267.036 $\chi^2$/NDF: 65.4/46

Right: 2034.873+/-311.403 $\chi^2$/NDF: 22.5/44

In: 2211.978+/-291.588 $\chi^2$/NDF:25.9/42

Out: 1388.166+/-282.004 $\chi^2$/NDF:59.0/48

All: 1786.312+/-202.711 $\chi^2$/NDF: 89.0/91




Right In: 1428.225+/-0.324 $\chi^2$/NDF: 108871.3/19

Left Out: 1620.946+/-0.267 $\chi^2$/NDF:141990.3/23

Right Out: 1445.073+/-0.300 $\chi^2$/NDF: 119461.5/24

Left In: 1615.706+/-0.267 $\chi^2$/NDF:137144.0/22

Left: 1618.333+/-0.189 $\chi^2$/NDF: 279326.8/46

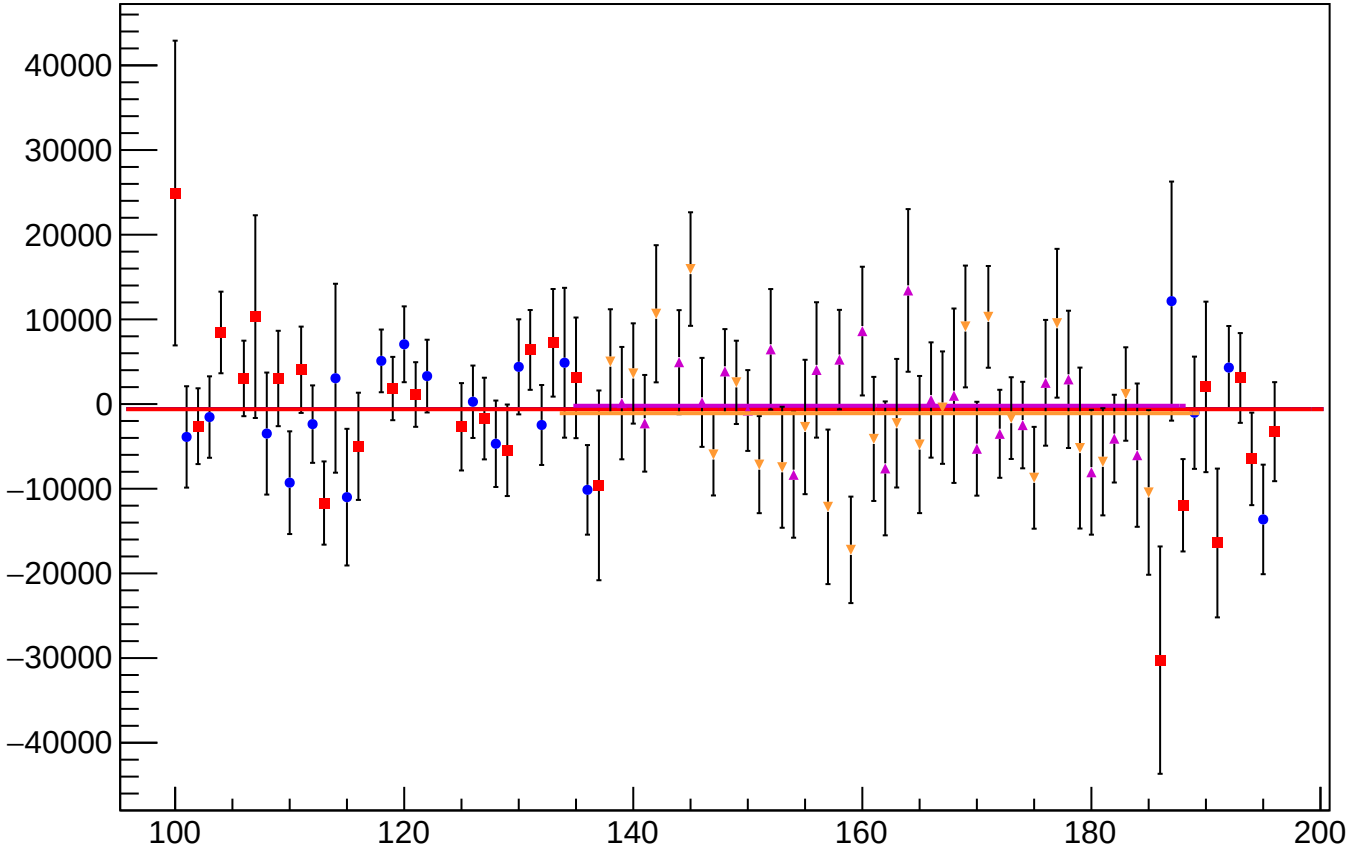
Right: 1437.299+/-0.220 $\chi^2$/NDF: 229790.5/44

In: 1539.719+/-0.206 $\chi^2$/NDF:445304.6/42

Out: 1543.237+/-0.199 $\chi^2$/NDF:453586.7/48

All: 1541.538+/-0.143 $\chi^2$/NDF: 899041.9/91

asym_usl_atl2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -584.217+/-1215.359 $\chi^2$/NDF: 21.7/19

Left Out: -1082.239+/-1332.405 $\chi^2$/NDF:32.9/23

Right Out: -609.925+/-1116.342 $\chi^2$/NDF: 34.7/24

Left In: -201.663+/-1326.175 $\chi^2$/NDF:12.9/22

Left: -639.888+/-939.942 $\chi^2$/NDF: 46.1/46

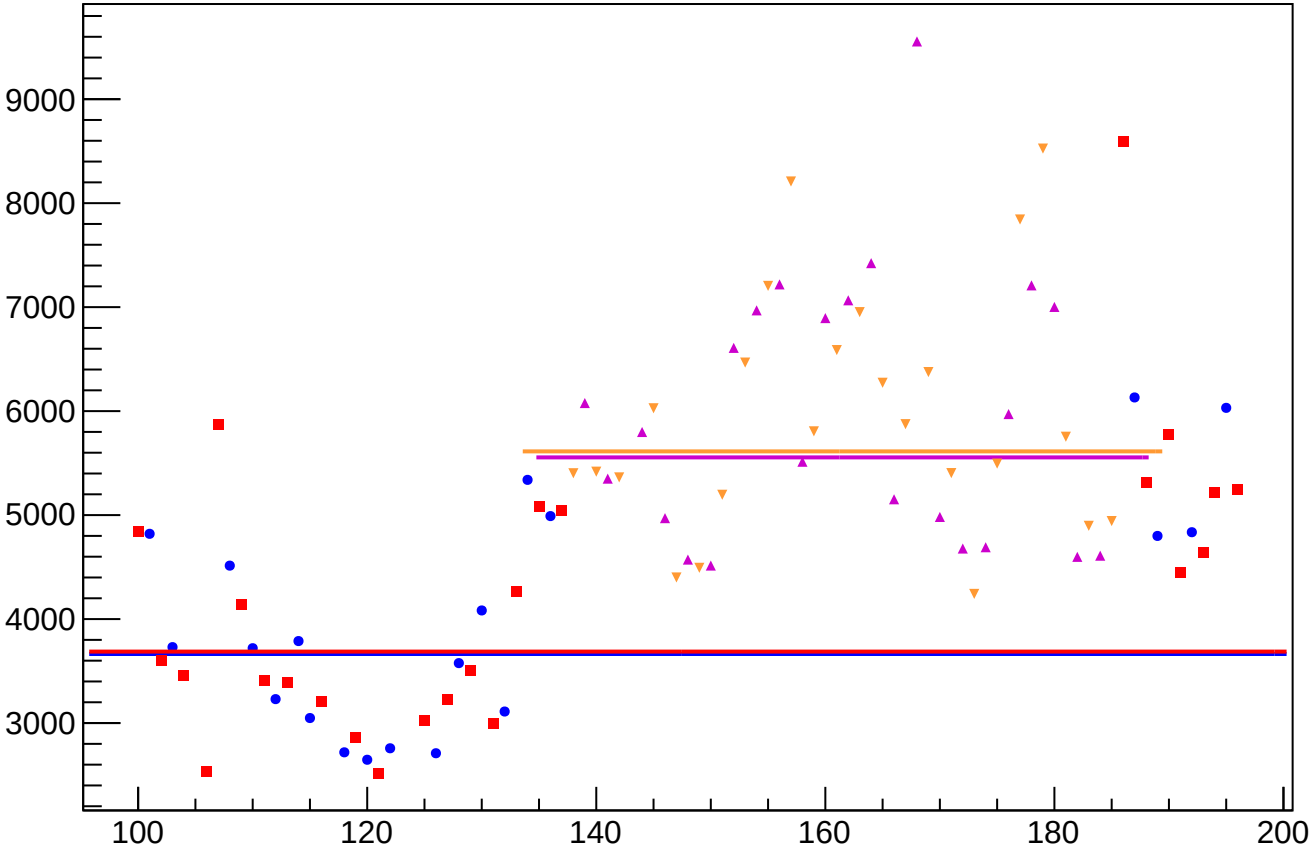
Right: -598.160+/-822.153 $\chi^2$/NDF: 56.4/44

In: -409.588+/-896.009 $\chi^2$/NDF:34.7/42

Out: -804.729+/-855.698 $\chi^2$/NDF:67.7/48

All: -616.247+/-618.830 $\chi^2$/NDF: 102.5/91

asym_usl_atl2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 3664.186+/-0.859 $\chi^2$/NDF: 1292976.3/19

Left Out: 5612.739+/-0.942 $\chi^2$/NDF:1188118.8/23

Right Out: 3687.358+/-0.789 $\chi^2$/NDF: 1663781.3/24

Left In: 5554.935+/-0.938 $\chi^2$/NDF:1332972.0/22

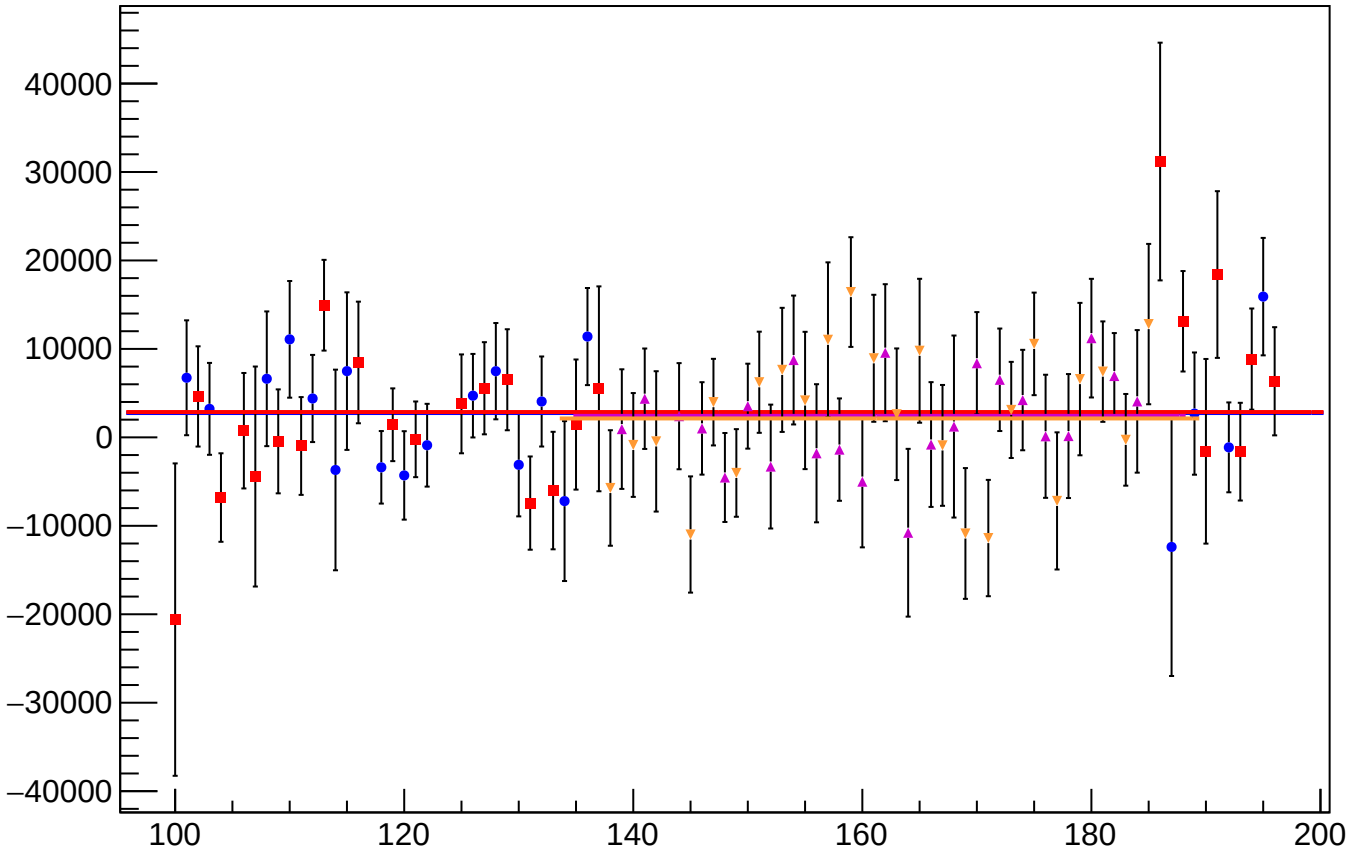
Left: 5583.702+/-0.665 $\chi^2$/NDF: 2522981.7/46

Right: 3676.754+/-0.581 $\chi^2$/NDF: 2957151.9/44

In: 4527.276+/-0.634 $\chi^2$/NDF:4835533.4/42

Out: 4481.476+/-0.605 $\chi^2$/NDF:5305692.4/48

All: 4503.323+/-0.438 $\chi^2$/NDF: 10143958.8/9




Right In: 2751.065+/-1305.365 $\chi^2$/NDF: 19.1/19

Left Out: 2138.140+/-1324.387 $\chi^2$/NDF:30.7/23

Right Out: 2862.821+/-1221.665 $\chi^2$/NDF: 32.8/24

Left In: 2428.059+/-1321.080 $\chi^2$/NDF:12.9/22

Left: 2283.462+/-935.312 $\chi^2$/NDF: 43.6/46

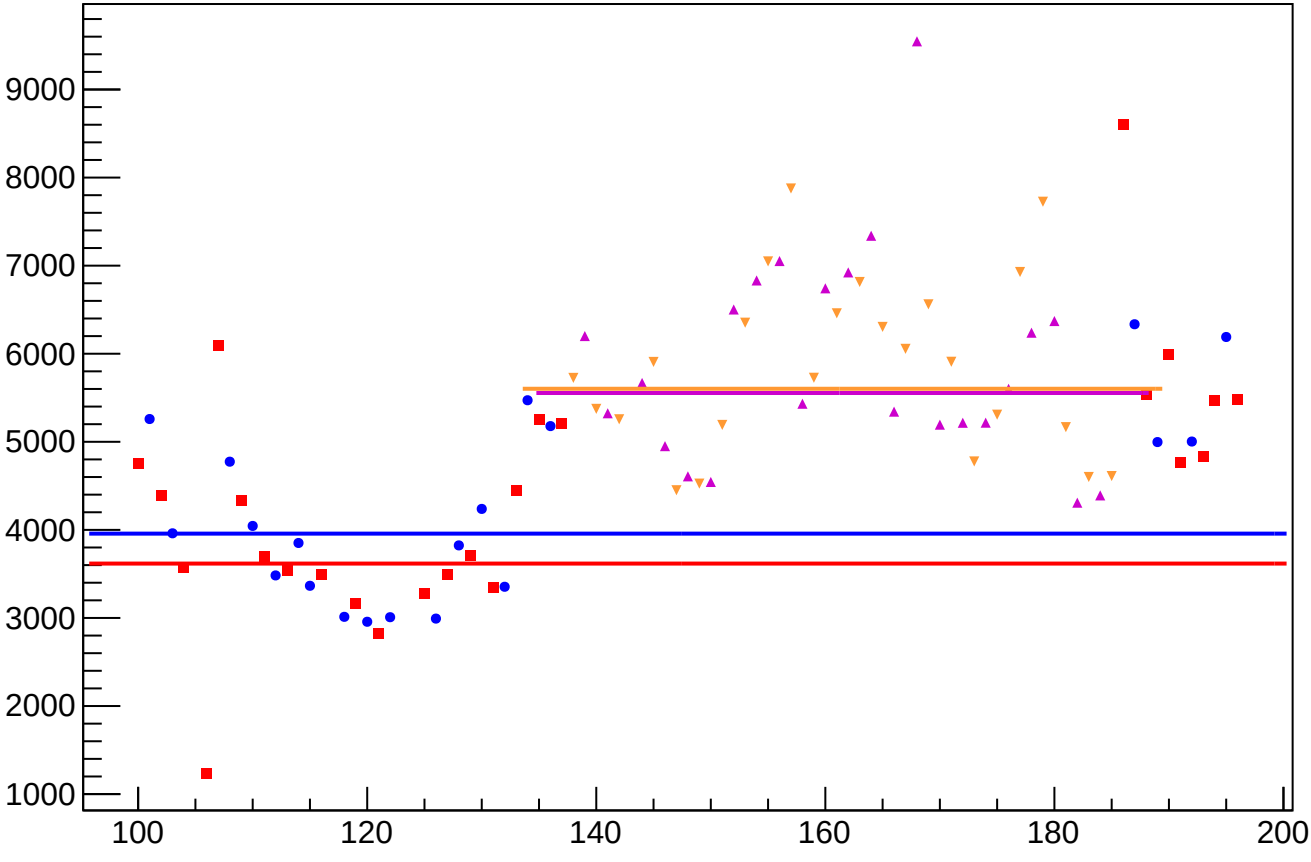
Right: 2810.641+/-891.970 $\chi^2$/NDF: 51.9/44

In: 2591.495+/-928.538 $\chi^2$/NDF:32.0/42

Out: 2529.671+/-897.969 $\chi^2$/NDF:63.6/48

All: 2559.548+/-645.497 $\chi^2$/NDF: 95.6/91

# asym_usl_atl2_avg_rms vs Slug, Sign Corrected




Right In: 3957.431+/-0.923 $\chi^2$/NDF: 1081456.0/19

Left Out: 5602.266+/-0.936 $\chi^2$/NDF:940451.0/23

Right Out: 3617.373+/-0.806 $\chi^2$/NDF: 2970725.5/24

Left In: 5554.054+/-0.934 $\chi^2$/NDF:1112177.4/22

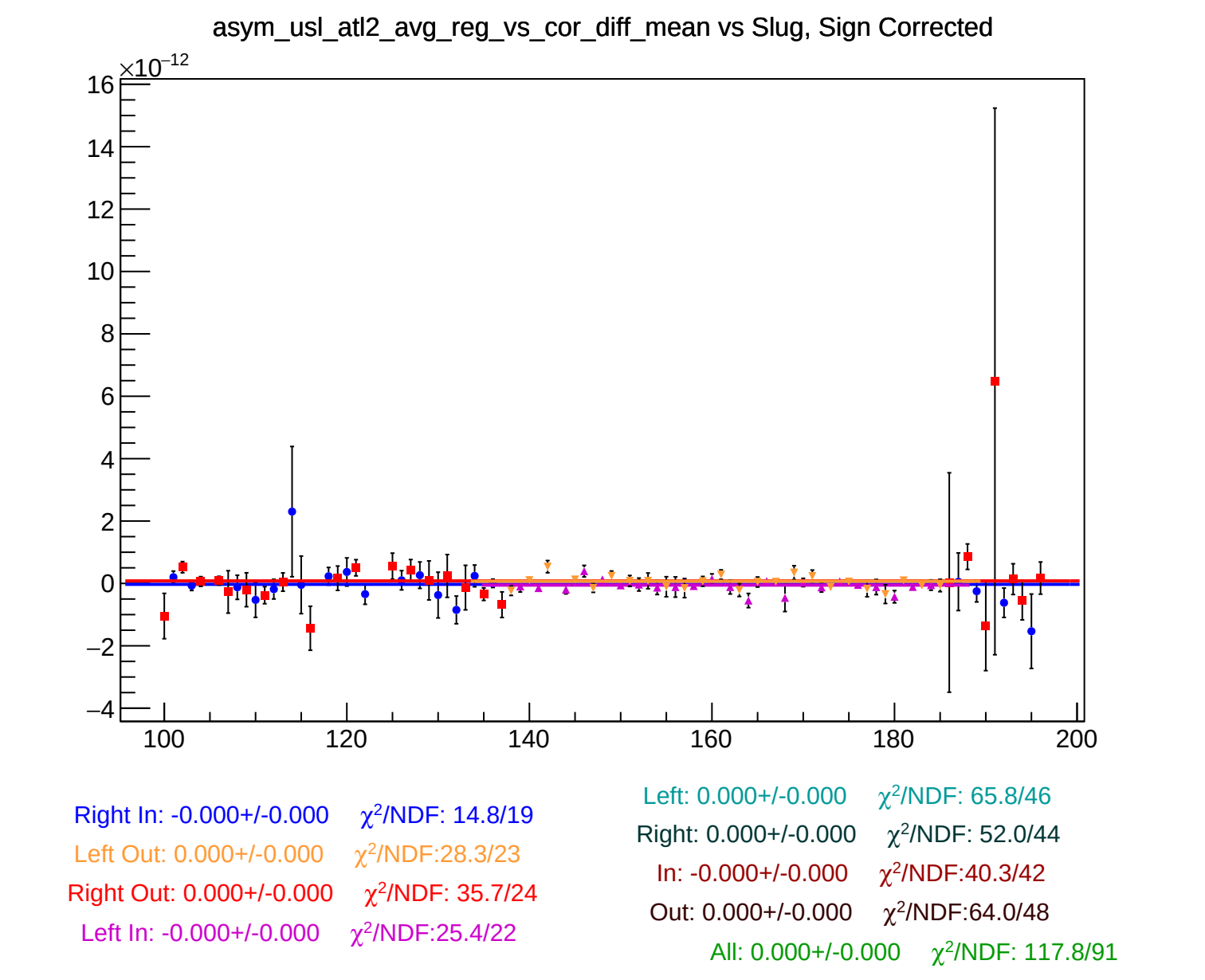
Left: 5578.100+/-0.661 $\chi^2$/NDF: 2053956.9/46

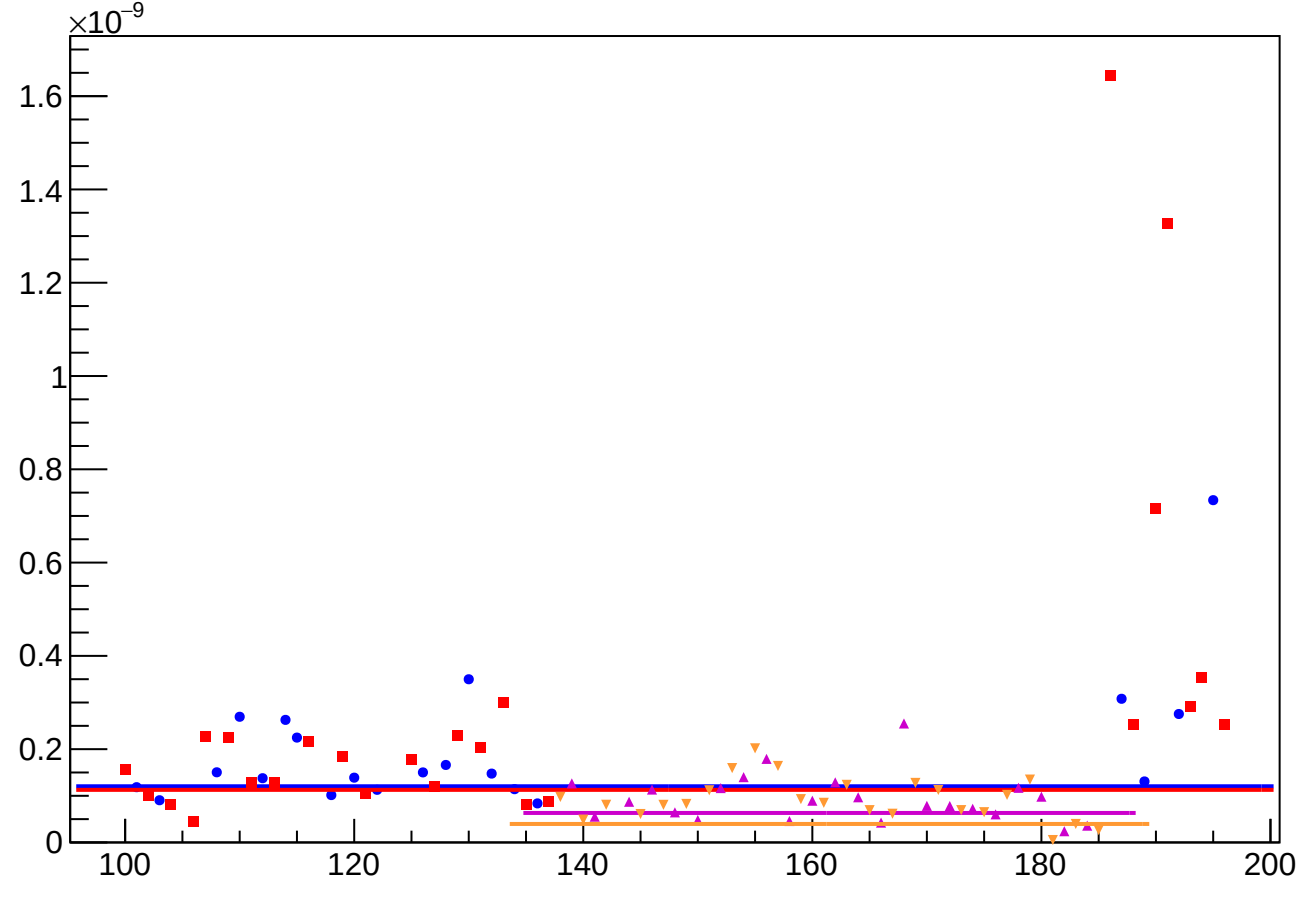
Right: 3764.401+/-0.607 $\chi^2$/NDF: 4129226.8/44

In: 4746.188+/-0.657 $\chi^2$/NDF:3671766.7/42

Out: 4461.496+/-0.611 $\chi^2$/NDF:6493051.7/48

All: 4593.552+/-0.447 $\chi^2$/NDF: 10265619.6/9


asym_usl_atl2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
16
14
12
10
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 14.8/19
Left Out: 0.000+/-0.000 χ²/NDF:28.3/23
Right Out: 0.000+/-0.000 χ²/NDF: 35.7/24
Left In: -0.000+/-0.000 χ²/NDF:25.4/22
Left: 0.000+/-0.000 χ²/NDF: 65.8/46
Right: 0.000+/-0.000 χ²/NDF: 52.0/44
In: -0.000+/-0.000 χ²/NDF:40.3/42
Out: 0.000+/-0.000 χ²/NDF:64.0/48
All: 0.000+/-0.000 χ²/NDF: 117.8/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1506329.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6954816.0/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2896372.9/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:2922990.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 10753766.3/46

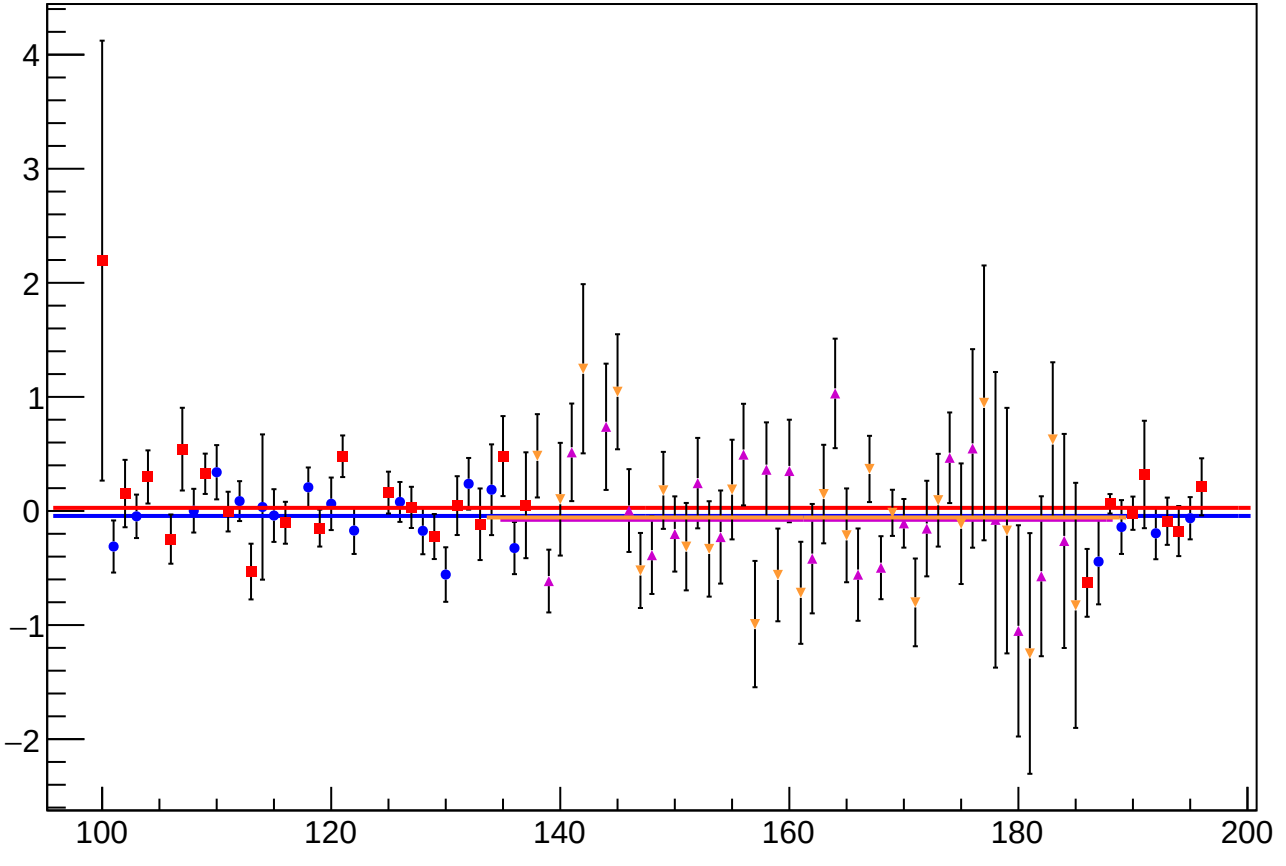
Right: 0.000+/-0.000 $\chi^2$/NDF: 4416383.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:5640164.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12223206.6/48

All: 0.000+/-0.000 $\chi^2$/NDF: 18905791.1/91

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.049 $\chi^2$/NDF: 18.0/19

Left Out: -0.057+/-0.085 $\chi^2$/NDF:30.4/23

Right Out: 0.027+/-0.040 $\chi^2$/NDF: 33.7/24

Left In: -0.077+/-0.083 $\chi^2$/NDF:27.0/22

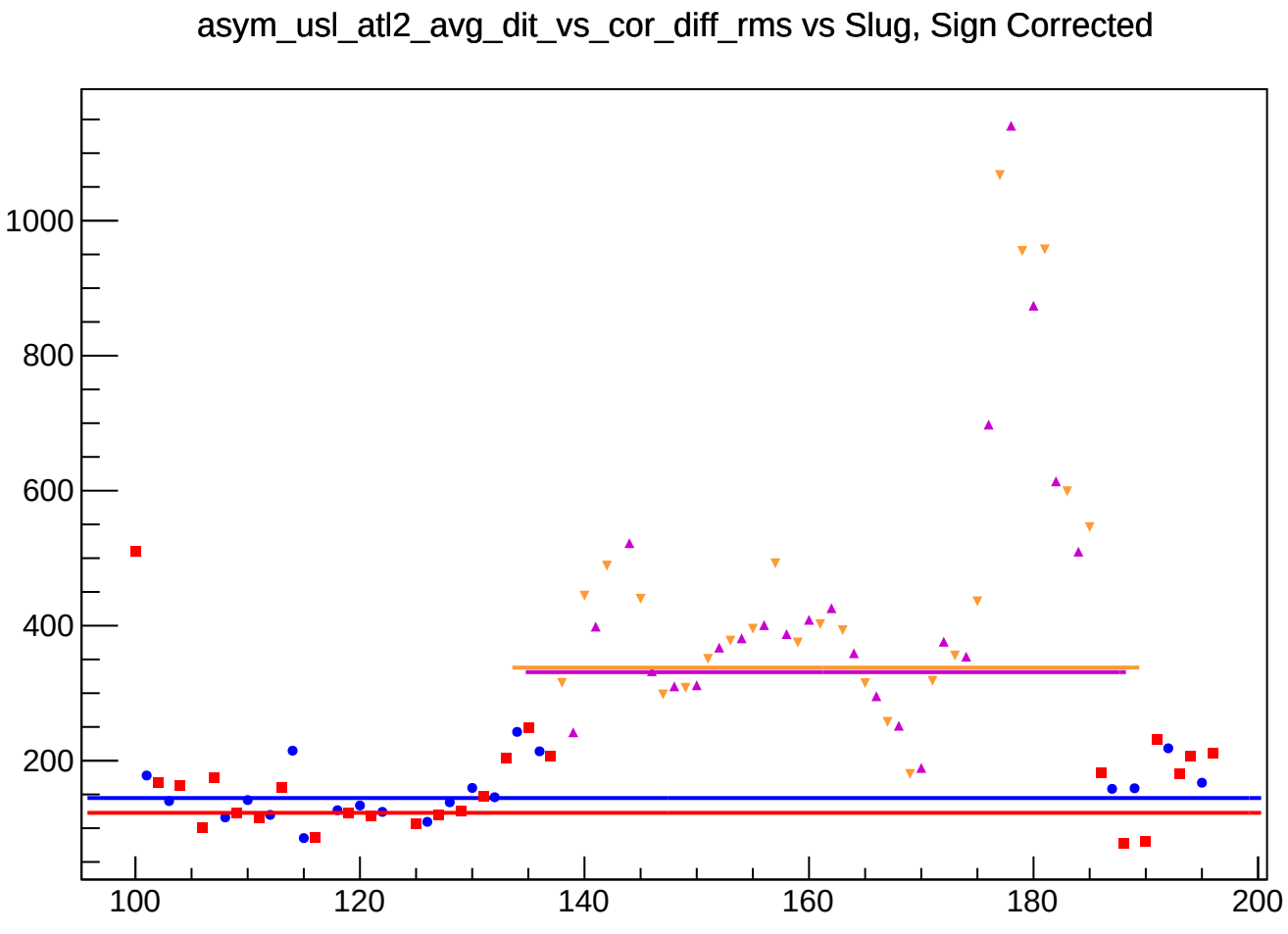
Left: -0.067+/-0.060 $\chi^2$/NDF: 57.4/46

Right: -0.001+/-0.031 $\chi^2$/NDF: 52.9/44

In: -0.052+/-0.042 $\chi^2$/NDF:45.1/42

Out: 0.012+/-0.036 $\chi^2$/NDF:64.9/48

All: -0.015+/-0.028 $\chi^2$/NDF: 111.3/91




Right In: 144.664+/-0.035 $\chi^2$/NDF: 977774.2/19

Left Out: 337.937+/-0.060 $\chi^2$/NDF:4517129.8/23

Right Out: 122.750+/-0.028 $\chi^2$/NDF: 2498474.2/24

Left In: 331.158+/-0.059 $\chi^2$/NDF:4106959.8/22

Left: 334.465+/-0.042 $\chi^2$/NDF: 8630534.0/46

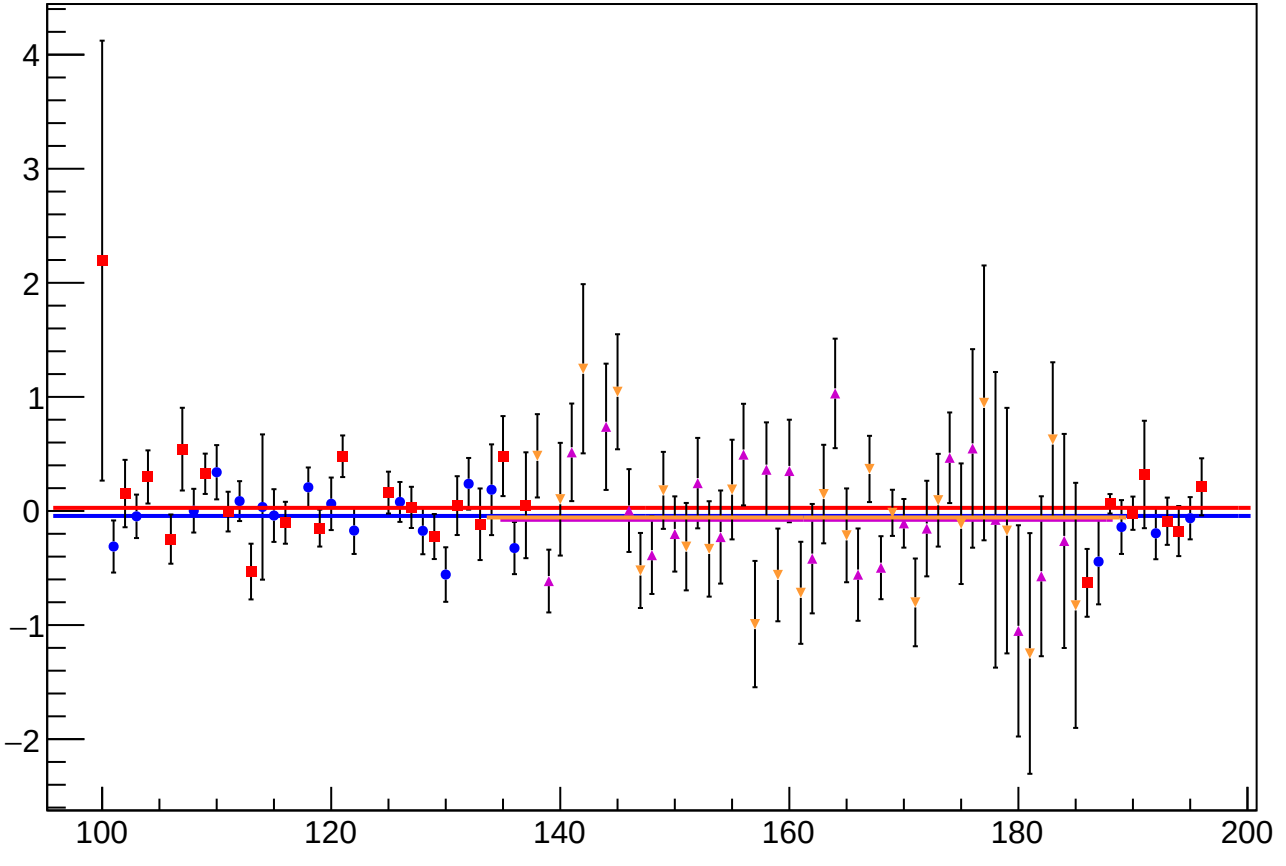
Right: 131.492+/-0.022 $\chi^2$/NDF: 3715175.4/44

In: 192.733+/-0.030 $\chi^2$/NDF:12505249.4/42

Out: 161.493+/-0.026 $\chi^2$/NDF:17413050.5/48

All: 174.709+/-0.019 $\chi^2$/NDF: 30546251.0/91

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.049 $\chi^2$/NDF: 18.0/19

Left Out: -0.057+/-0.085 $\chi^2$/NDF:30.4/23

Right Out: 0.027+/-0.040 $\chi^2$/NDF: 33.7/24

Left In: -0.077+/-0.083 $\chi^2$/NDF:27.0/22

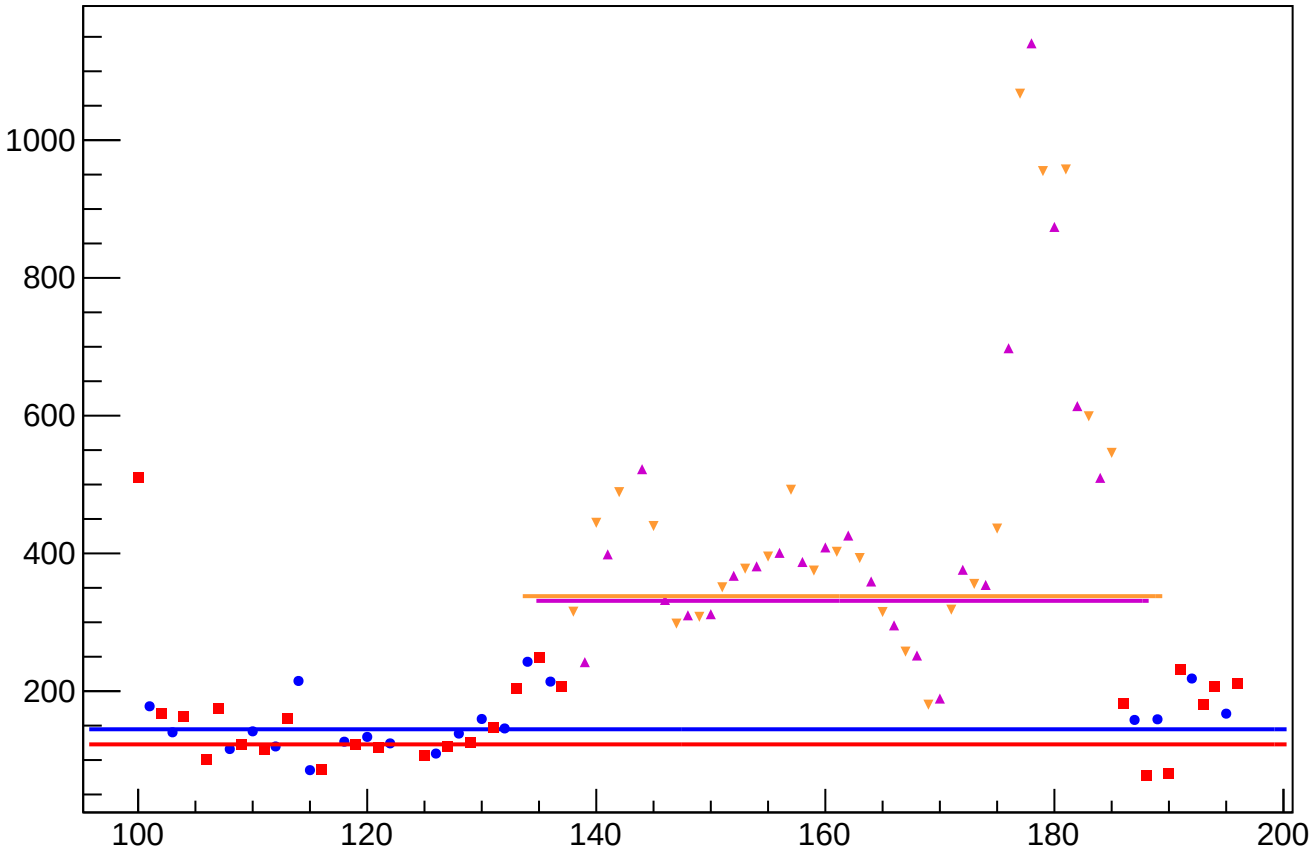
Left: -0.067+/-0.060 $\chi^2$/NDF: 57.4/46

Right: -0.001+/-0.031 $\chi^2$/NDF: 52.9/44

In: -0.052+/-0.042 $\chi^2$/NDF:45.1/42

Out: 0.012+/-0.036 $\chi^2$/NDF:64.9/48

All: -0.015+/-0.028 $\chi^2$/NDF: 111.3/91




Right In: 144.664+/-0.035 $\chi^2$/NDF: 977774.2/19

Left Out: 337.937+/-0.060 $\chi^2$/NDF:4517129.8/23

Right Out: 122.750+/-0.028 $\chi^2$/NDF: 2498474.2/24

Left In: 331.158+/-0.059 $\chi^2$/NDF:4106959.8/22

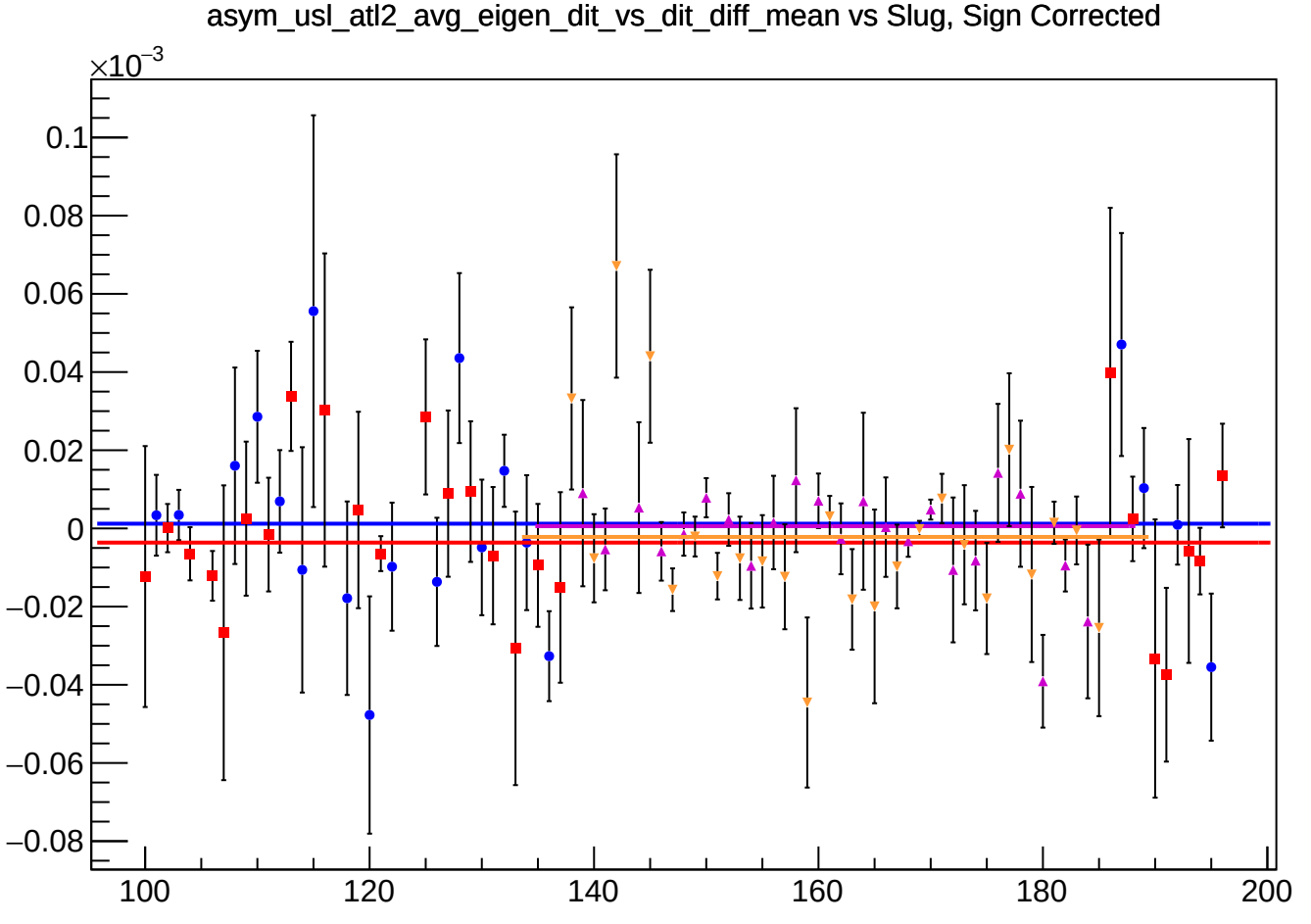
Left: 334.465+/-0.042 $\chi^2$/NDF: 8630534.0/46

Right: 131.492+/-0.022 $\chi^2$/NDF: 3715175.4/44

In: 192.733+/-0.030 $\chi^2$/NDF:12505249.4/42

Out: 161.493+/-0.026 $\chi^2$/NDF:17413050.5/48

All: 174.709+/-0.019 $\chi^2$/NDF: 30546251.0/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 30.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:37.9/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.2/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.2/22

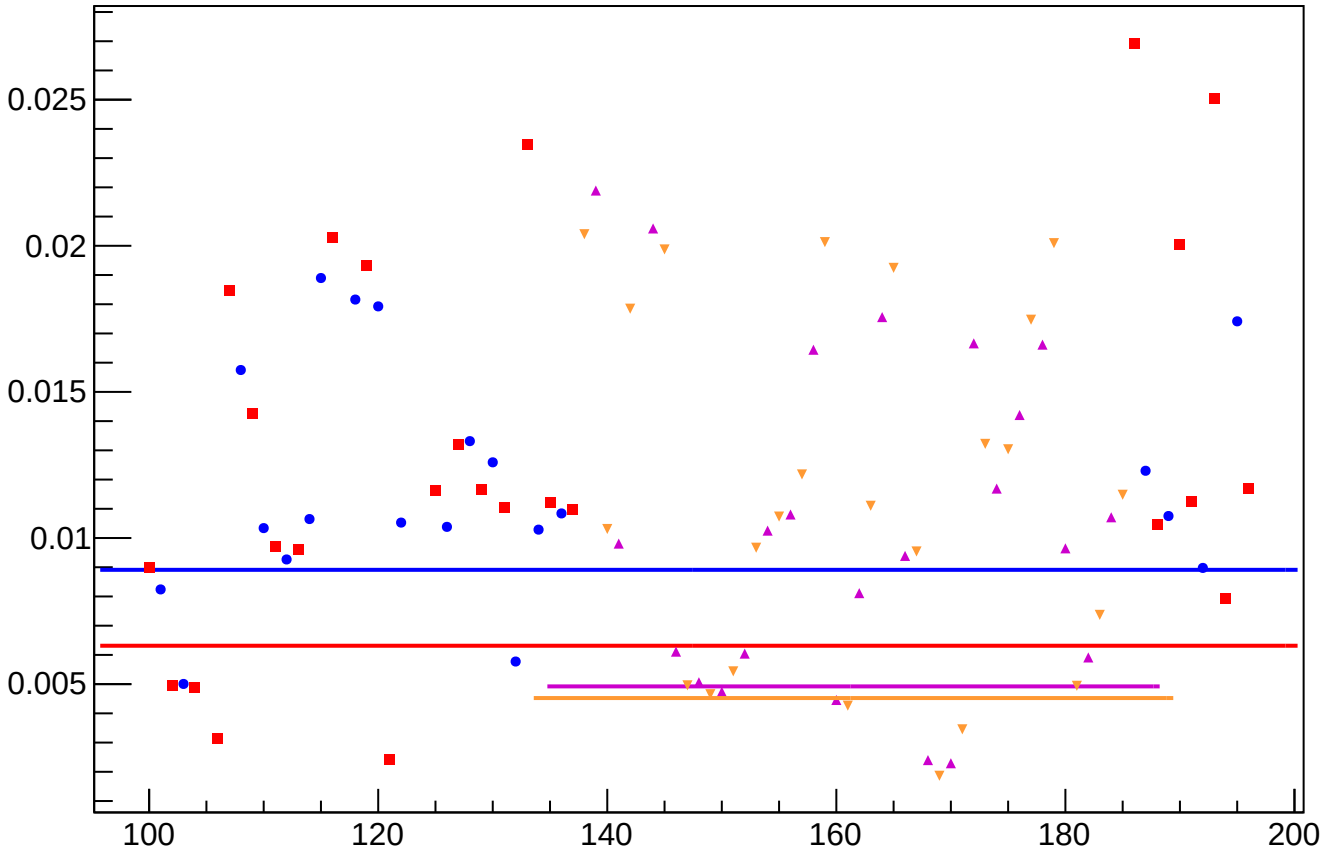
Left: -0.000+/-0.000 $\chi^2$/NDF: 65.9/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 54.4/44

In: 0.000+/-0.000 $\chi^2$/NDF:56.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:60.3/48

All: -0.000+/-0.000 $\chi^2$/NDF: 120.6/91




Right In: 0.009+/-0.000 $\chi^2$/NDF: 2423805.4/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:14239550.6/23

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 7599930.3/24

Left In: 0.005+/-0.000 $\chi^2$/NDF:11626984.8/22

Left: 0.005+/-0.000 $\chi^2$/NDF: 25942497.2/46

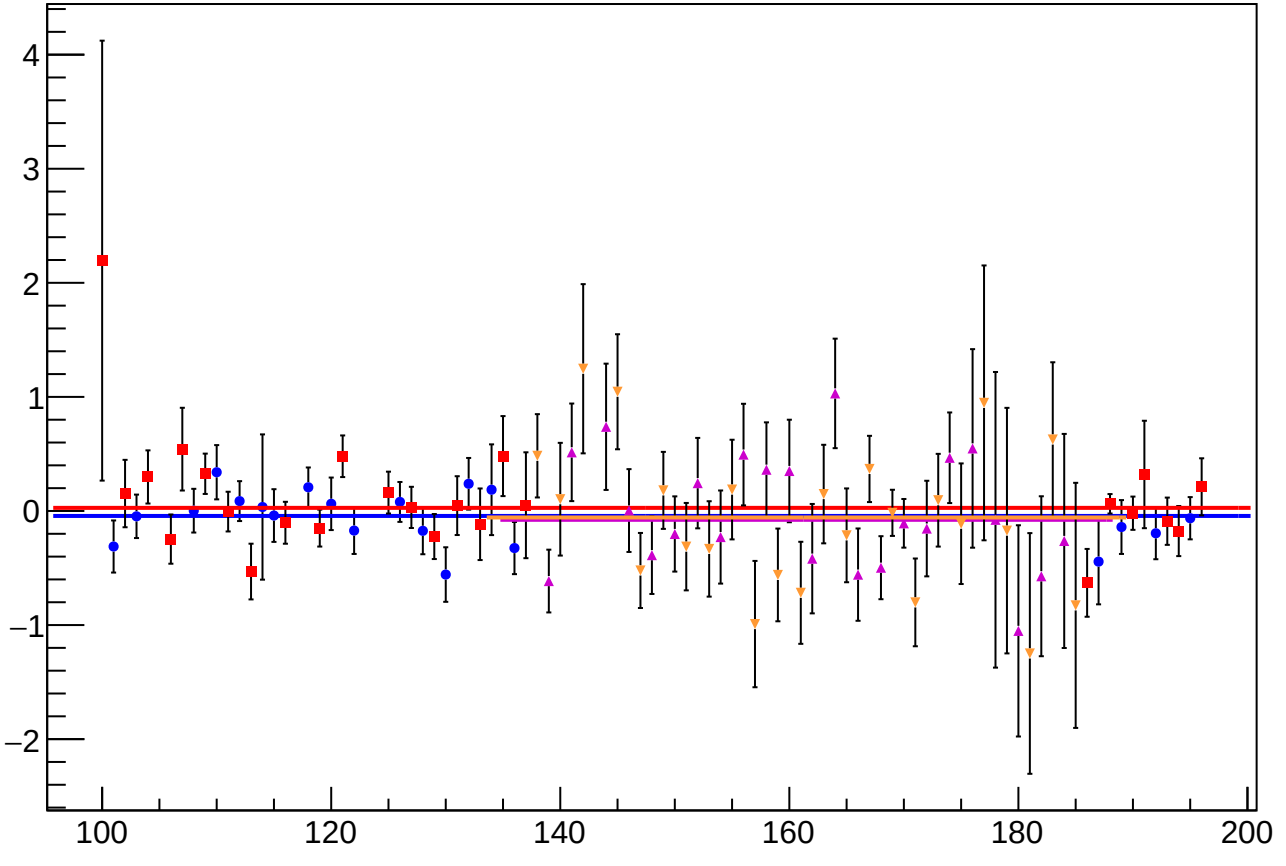
Right: 0.007+/-0.000 $\chi^2$/NDF: 10918338.5/44

In: 0.006+/-0.000 $\chi^2$/NDF:16695765.5/42

Out: 0.005+/-0.000 $\chi^2$/NDF:22724033.7/48

All: 0.005+/-0.000 $\chi^2$/NDF: 39682717.1/91

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.049 $\chi^2$/NDF: 18.0/19

Left Out: -0.057+/-0.085 $\chi^2$/NDF:30.4/23

Right Out: 0.027+/-0.040 $\chi^2$/NDF: 33.7/24

Left In: -0.077+/-0.083 $\chi^2$/NDF:27.0/22

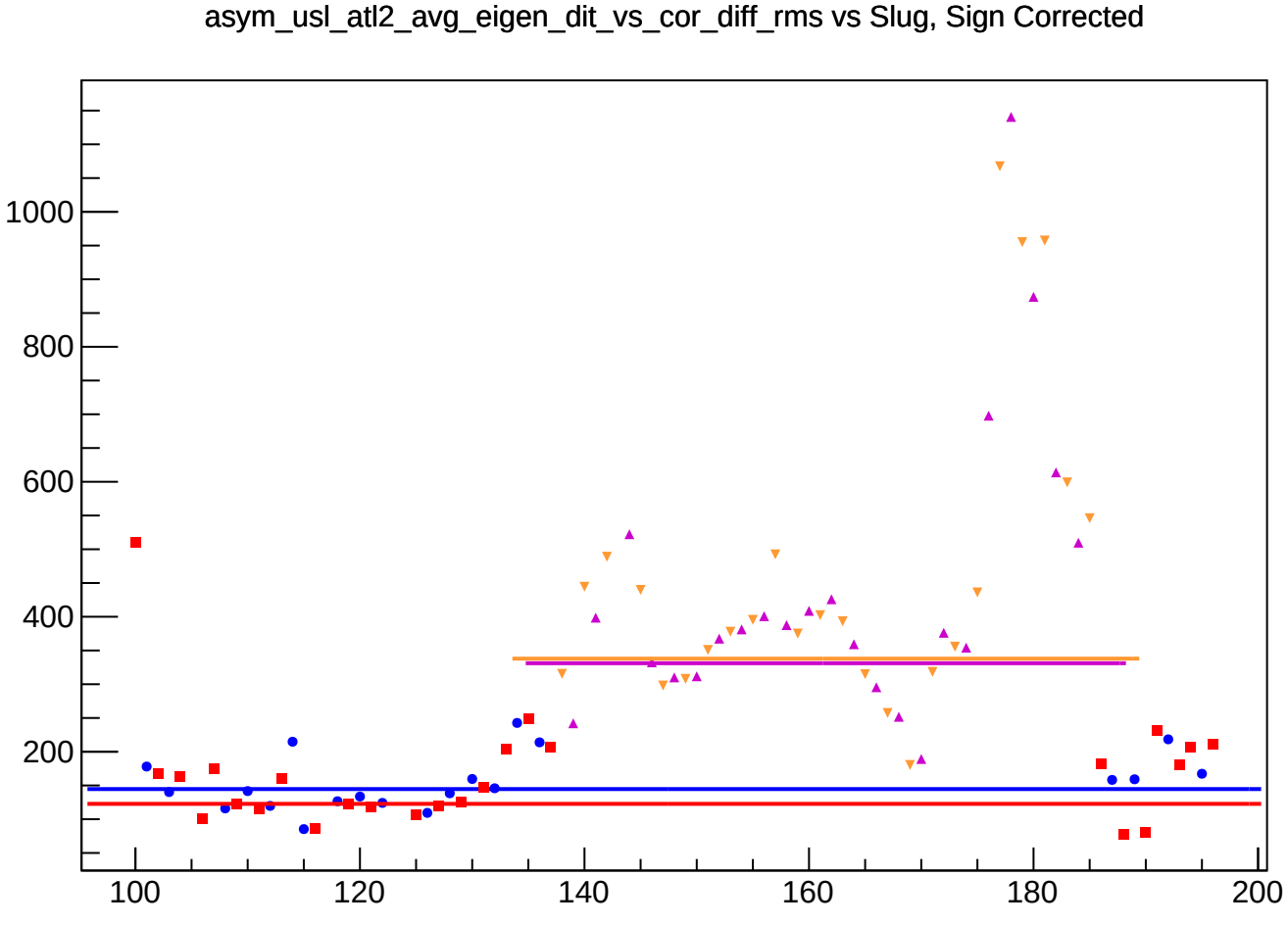
Left: -0.067+/-0.060 $\chi^2$/NDF: 57.4/46

Right: -0.001+/-0.031 $\chi^2$/NDF: 52.9/44

In: -0.052+/-0.042 $\chi^2$/NDF:45.1/42

Out: 0.012+/-0.036 $\chi^2$/NDF:64.9/48

All: -0.015+/-0.028 $\chi^2$/NDF: 111.3/91




Right In: 144.664+/-0.035 $\chi^2$/NDF: 977741.3/19

Left Out: 337.939+/-0.060 $\chi^2$/NDF:4517201.8/23

Right Out: 122.748+/-0.028 $\chi^2$/NDF: 2498563.3/24

Left In: 331.161+/-0.059 $\chi^2$/NDF:4106963.1/22

Left: 334.468+/-0.042 $\chi^2$/NDF: 8630607.3/46

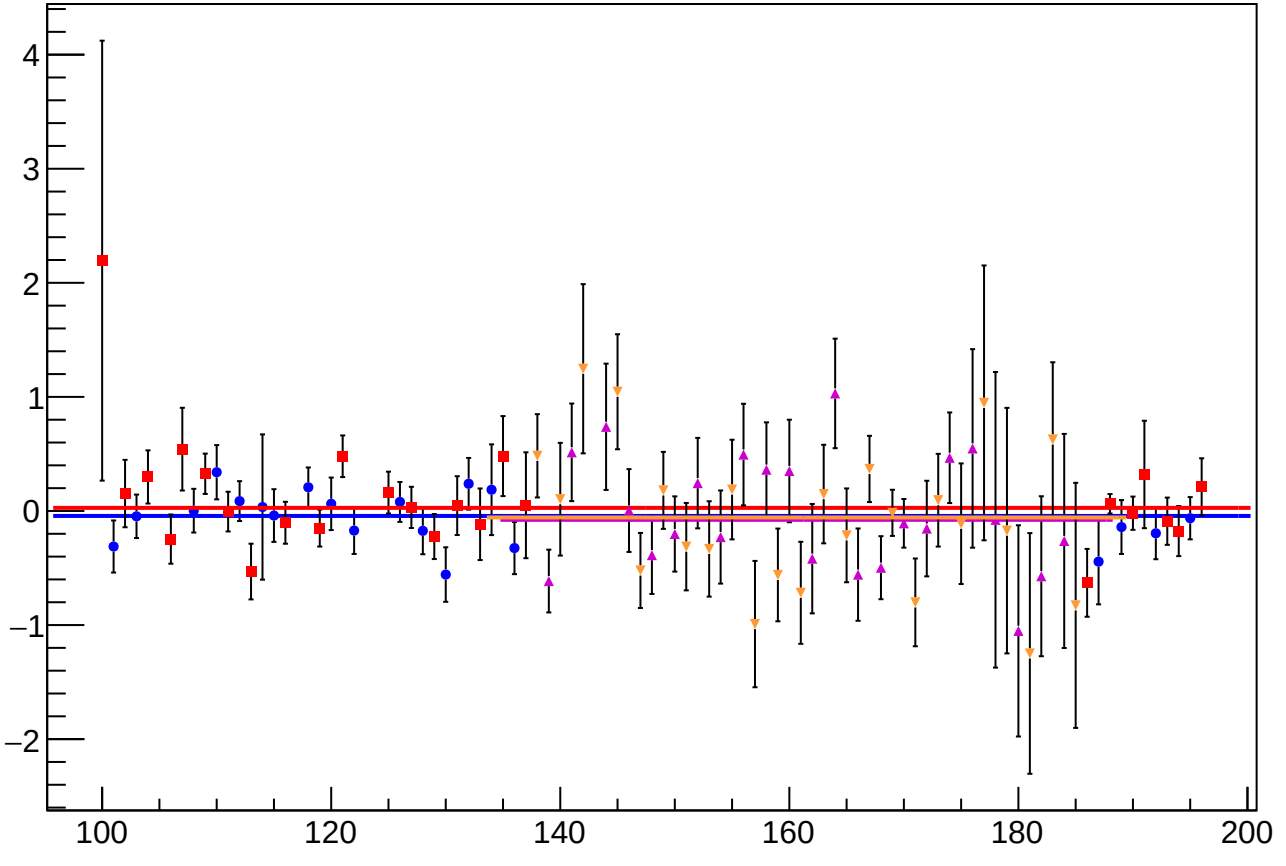
Right: 131.491+/-0.022 $\chi^2$/NDF: 3715277.1/44

In: 192.733+/-0.030 $\chi^2$/NDF:12505342.8/42

Out: 161.491+/-0.026 $\chi^2$/NDF:17413507.3/48

All: 174.707+/-0.019 $\chi^2$/NDF: 30546903.9/91

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.044+/-0.049 $\chi^2$/NDF: 18.0/19

Left Out: -0.057+/-0.085 $\chi^2$/NDF:30.4/23

Right Out: 0.027+/-0.040 $\chi^2$/NDF: 33.7/24

Left In: -0.077+/-0.083 $\chi^2$/NDF:27.0/22

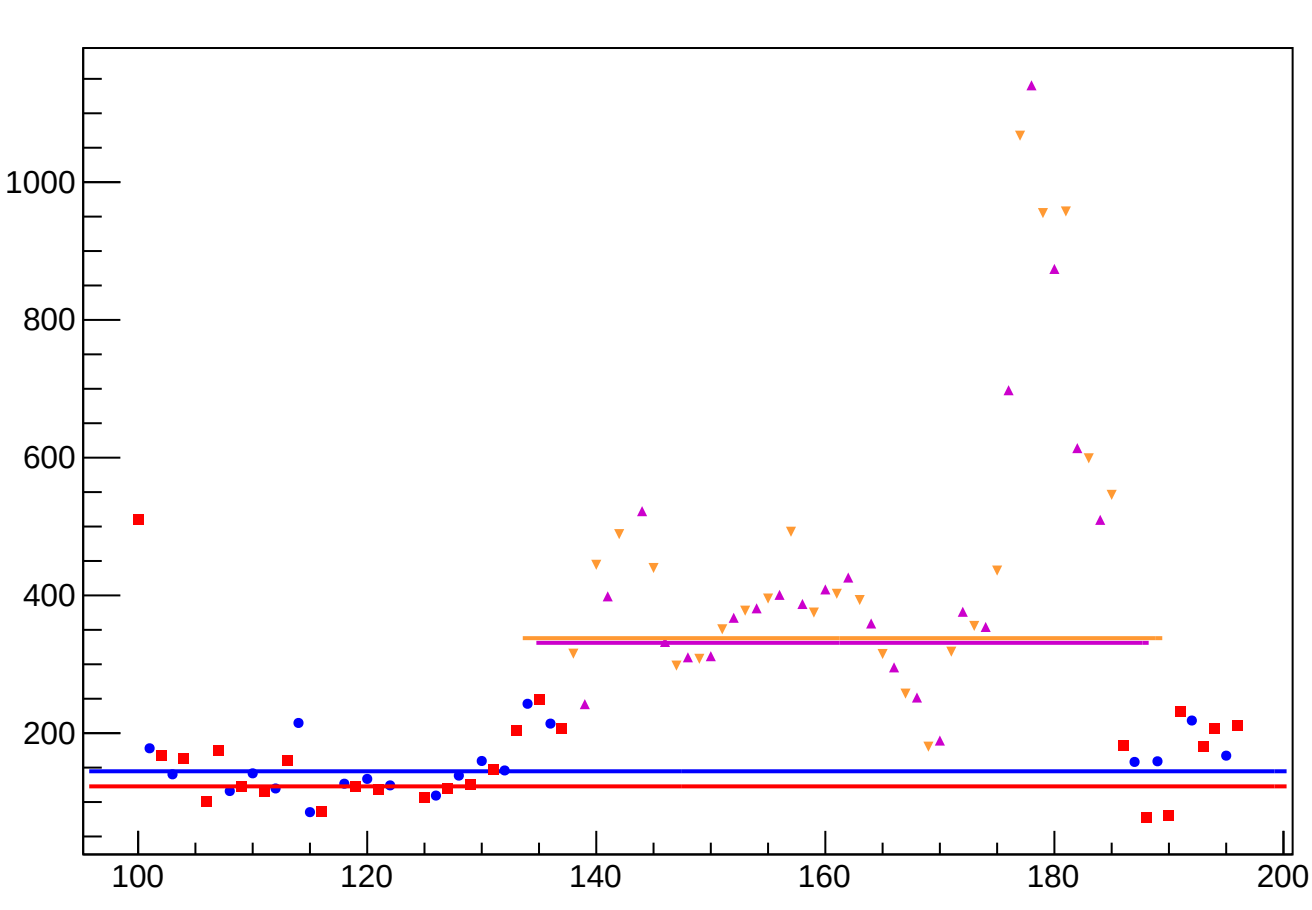
Left: -0.067+/-0.060 $\chi^2$/NDF: 57.4/46

Right: -0.001+/-0.031 $\chi^2$/NDF: 52.9/44

In: -0.052+/-0.042 $\chi^2$/NDF:45.1/42

Out: 0.012+/-0.036 $\chi^2$/NDF:64.9/48

All: -0.015+/-0.028 $\chi^2$/NDF: 111.3/91




Right In: 144.664+/-0.035 $\chi^2$/NDF: 977741.3/19

Left Out: 337.939+/-0.060 $\chi^2$/NDF:4517201.8/23

Right Out: 122.748+/-0.028 $\chi^2$/NDF: 2498563.3/24

Left In: 331.161+/-0.059 $\chi^2$/NDF:4106963.1/22

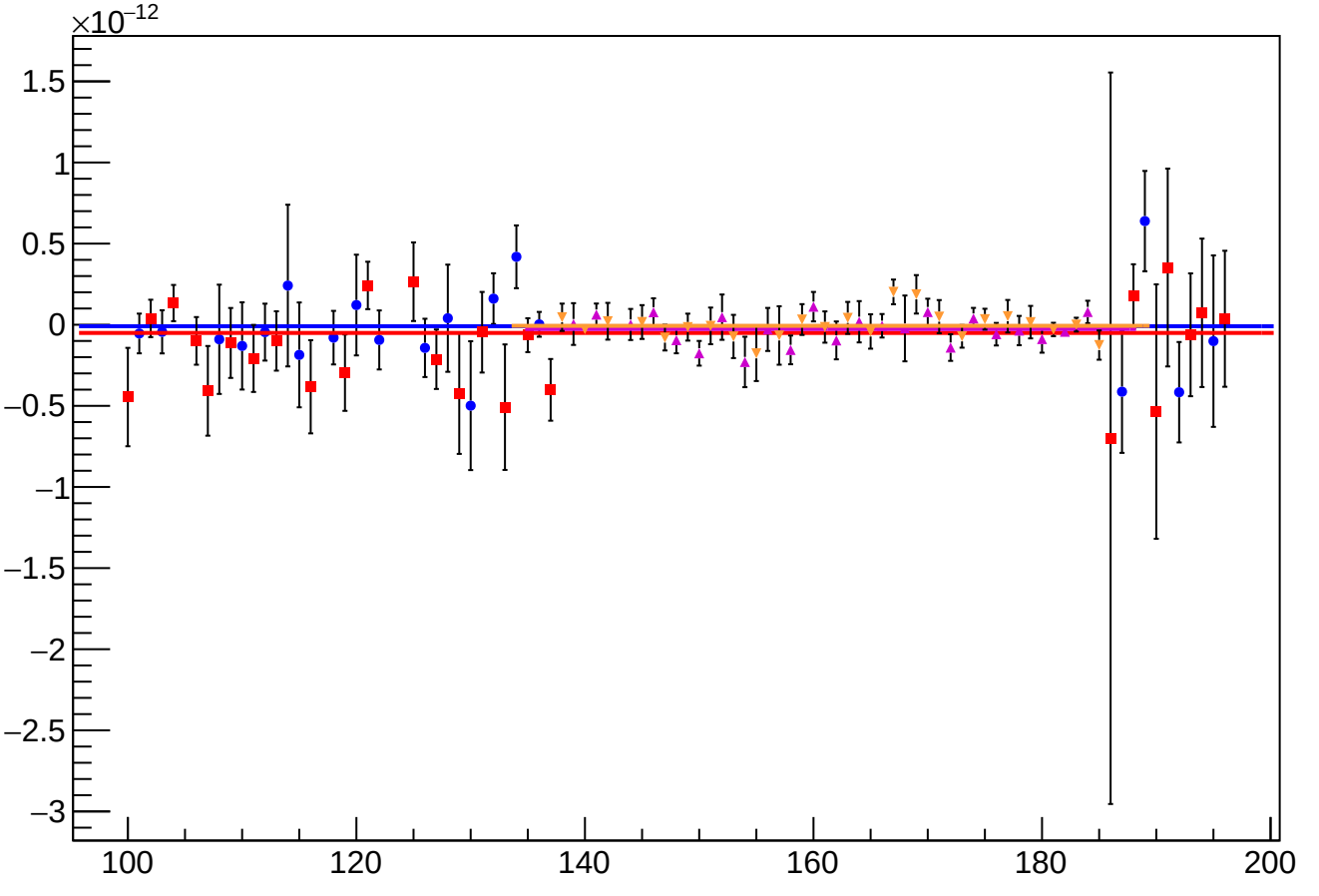
Left: 334.468+/-0.042 $\chi^2$/NDF: 8630607.3/46

Right: 131.491+/-0.022 $\chi^2$/NDF: 3715277.1/44

In: 192.733+/-0.030 $\chi^2$/NDF:12505342.8/42

Out: 161.491+/-0.026 $\chi^2$/NDF:17413507.3/48

All: 174.707+/-0.019 $\chi^2$/NDF: 30546903.9/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.1/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.6/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:22.8/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 41.7/46

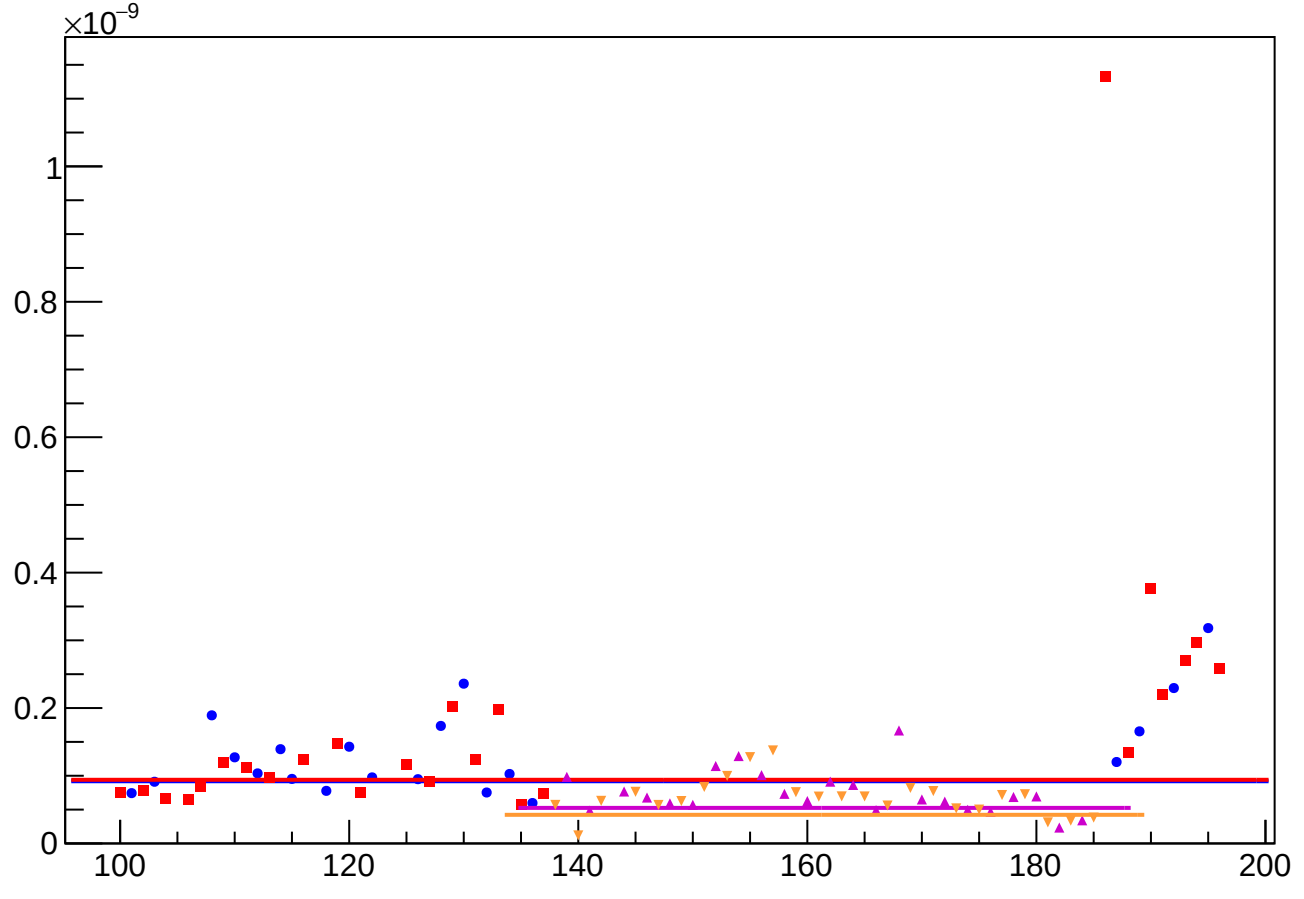
Right: -0.000+/-0.000 $\chi^2$/NDF: 42.2/44

In: -0.000+/-0.000 $\chi^2$/NDF:40.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:43.8/48

All: -0.000+/-0.000 $\chi^2$/NDF: 84.2/91

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1996475.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:6680117.5/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3062813.8/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:4897147.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 12028477.0/46

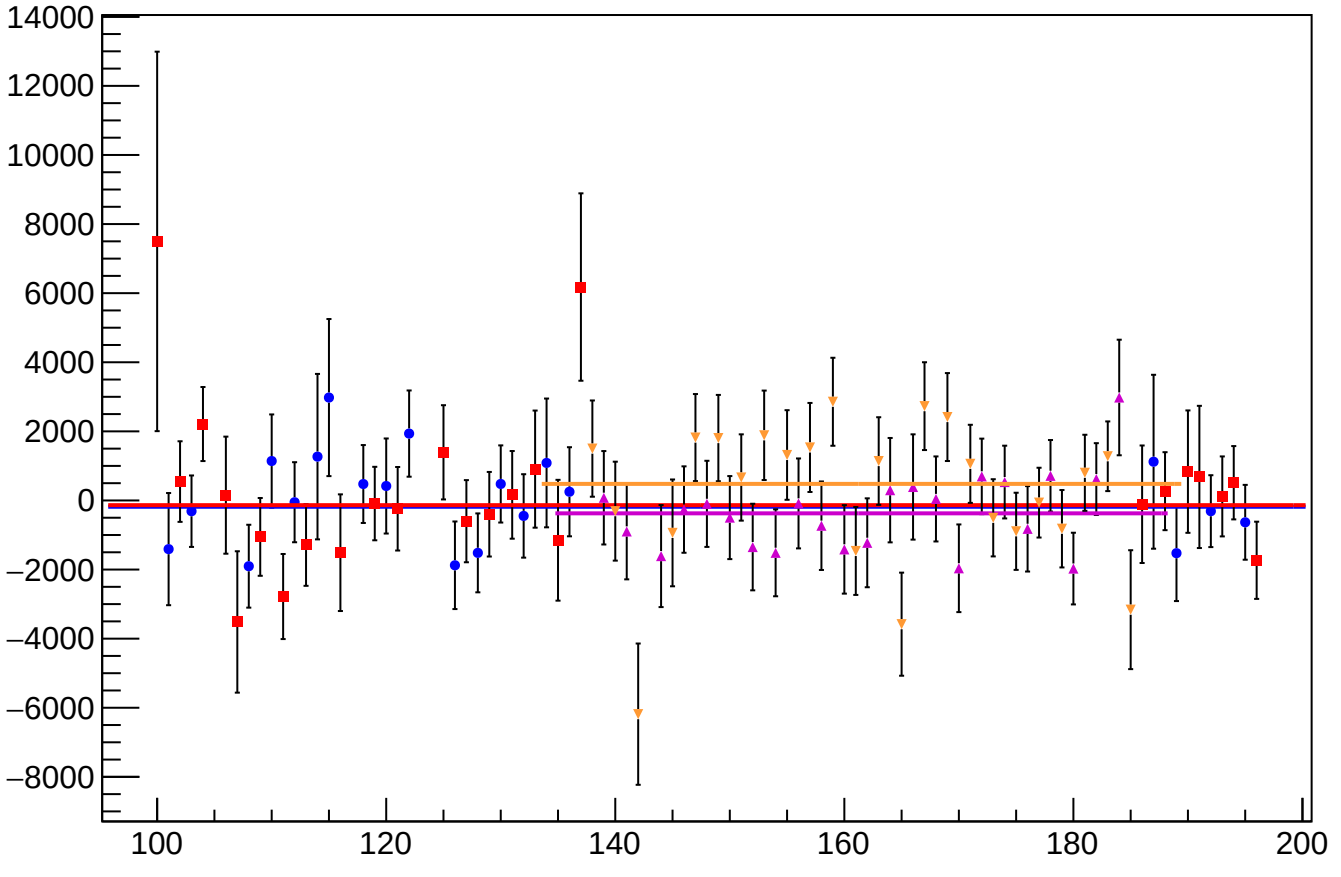
Right: 0.000+/-0.000 $\chi^2$/NDF: 5062055.9/44

In: 0.000+/-0.000 $\chi^2$/NDF:8468553.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12694524.7/48

All: 0.000+/-0.000 $\chi^2$/NDF: 21613533.3/91

# reg_asym_usl_atl2_dd_mean vs Slug, Sign Corrected




Right In: -181.901+/-290.484 $\chi^2$/NDF: 14.9/19

Left Out: 479.555+/-256.330 $\chi^2$/NDF:45.2/23

Right Out: -136.426+/-269.417 $\chi^2$/NDF: 27.4/24

Left In: -372.926+/-259.314 $\chi^2$/NDF:16.0/22

Left: 58.248+/-182.298 $\chi^2$/NDF: 66.7/46

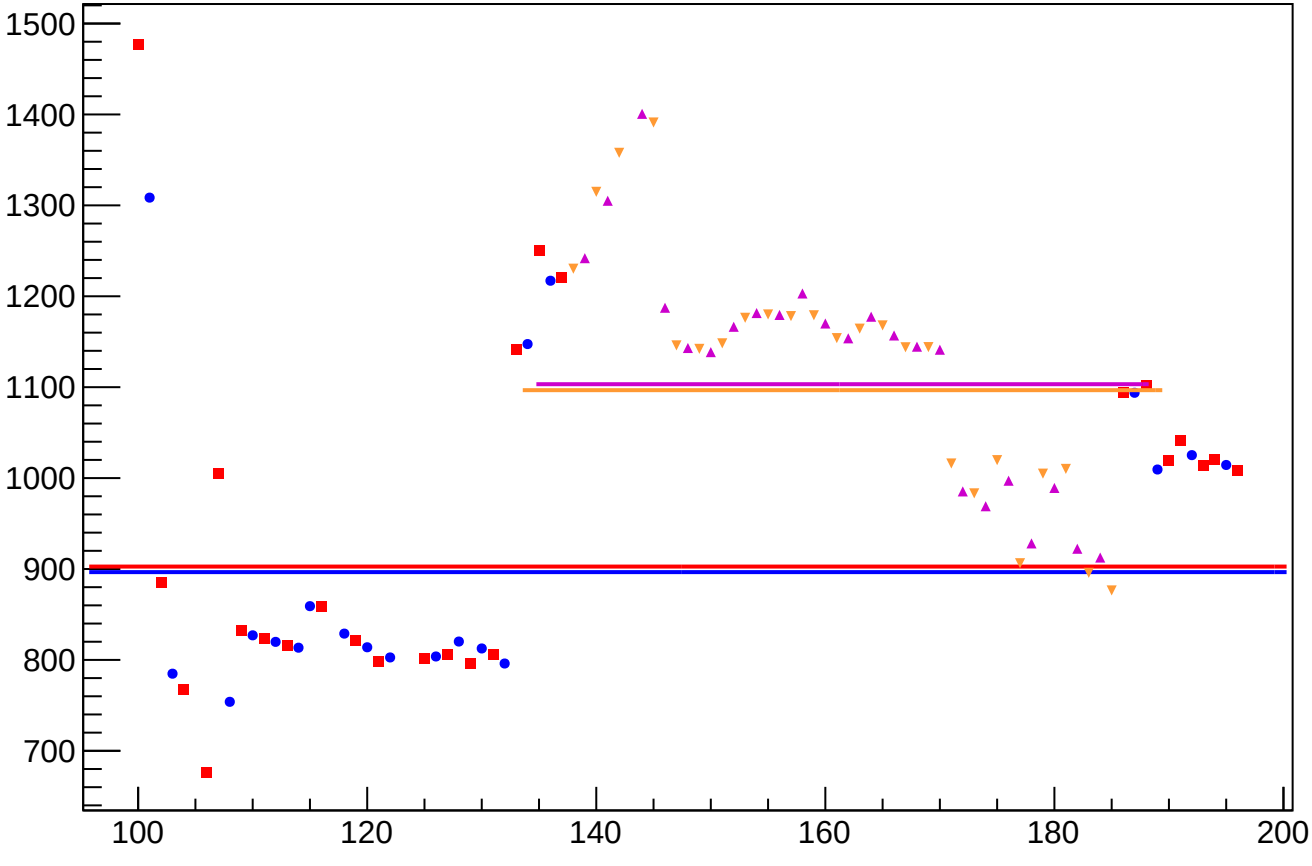
Right: -157.455+/-197.535 $\chi^2$/NDF: 42.3/44

In: -288.209+/-193.448 $\chi^2$/NDF:31.1/42

Out: 186.888+/-185.707 $\chi^2$/NDF:75.3/48

All: -40.965+/-133.967 $\chi^2$/NDF: 109.6/91

# reg_asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 896.573+/-0.205 $\chi^2$/NDF: 507685.1/19

Left Out: 1096.711+/-0.181 $\chi^2$/NDF:480498.6/23

Right Out: 902.681+/-0.189 $\chi^2$/NDF: 538848.6/24

Left In: 1103.281+/-0.183 $\chi^2$/NDF:447540.4/22

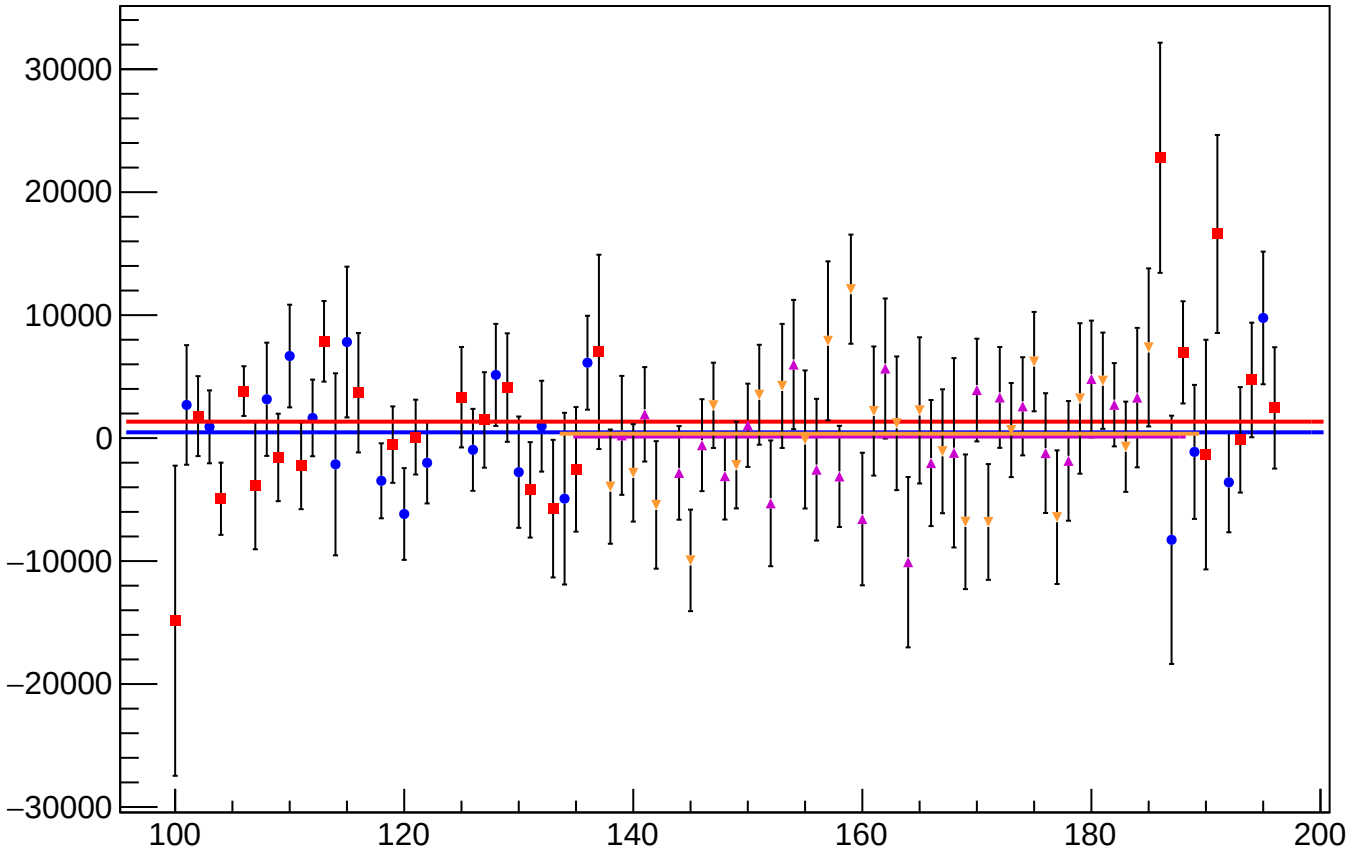
Left: 1099.958+/-0.129 $\chi^2$/NDF: 928688.2/46

Right: 899.883+/-0.139 $\chi^2$/NDF: 1047012.9/44

In: 1011.608+/-0.137 $\chi^2$/NDF:1518830.2/42

Out: 1003.676+/-0.131 $\chi^2$/NDF:1568825.2/48

All: 1007.464+/-0.095 $\chi^2$/NDF: 3089412.2/91




Right In: 470.564+/-921.759 $\chi^2$/NDF: 19.5/19

Left Out: 357.729+/-934.220 $\chi^2$/NDF:30.3/23

Right Out: 1337.573+/-797.004 $\chi^2$/NDF: 32.0/24

Left In: 126.696+/-932.645 $\chi^2$/NDF:13.8/22

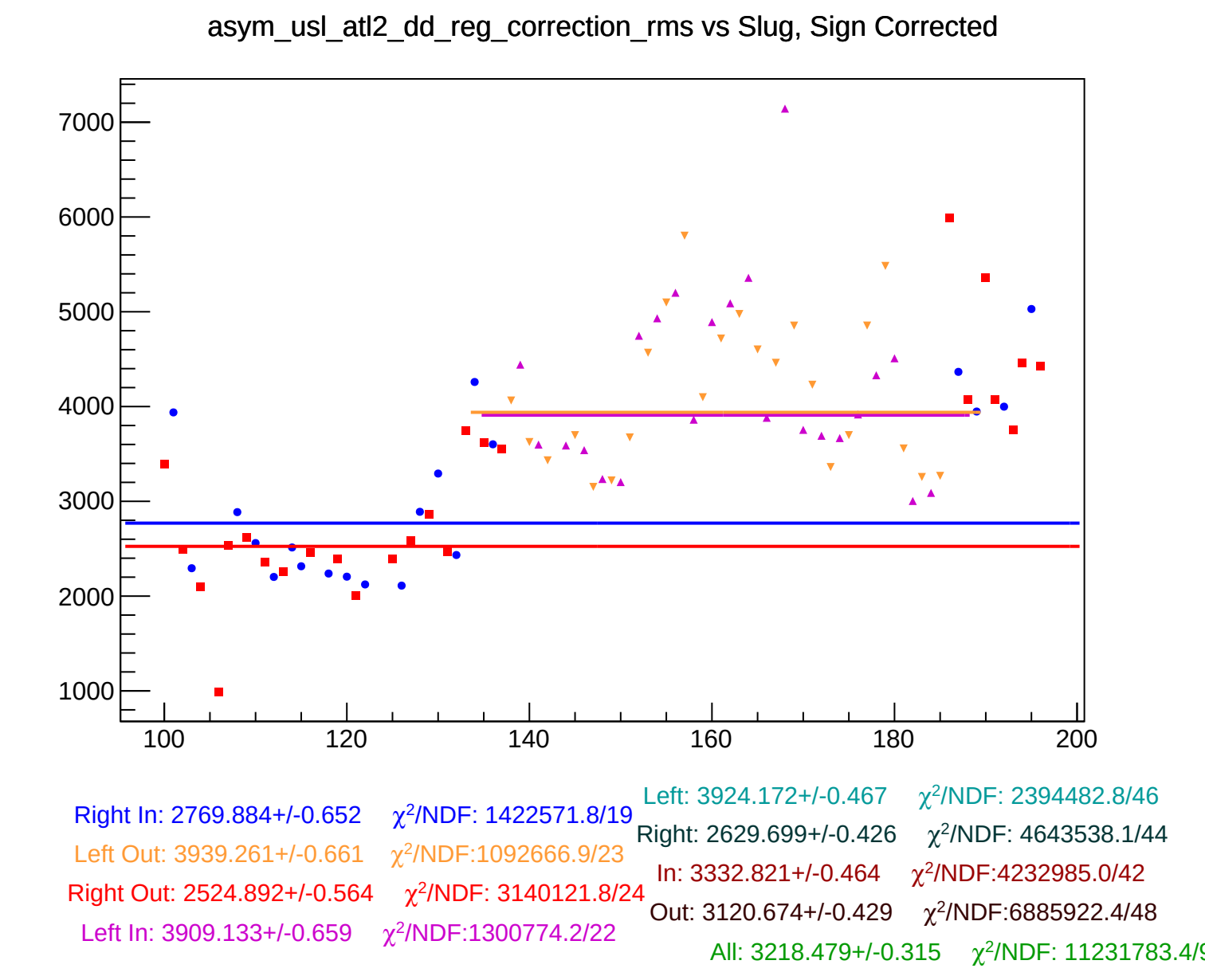
Left: 242.018+/-660.036 $\chi^2$/NDF: 44.1/46

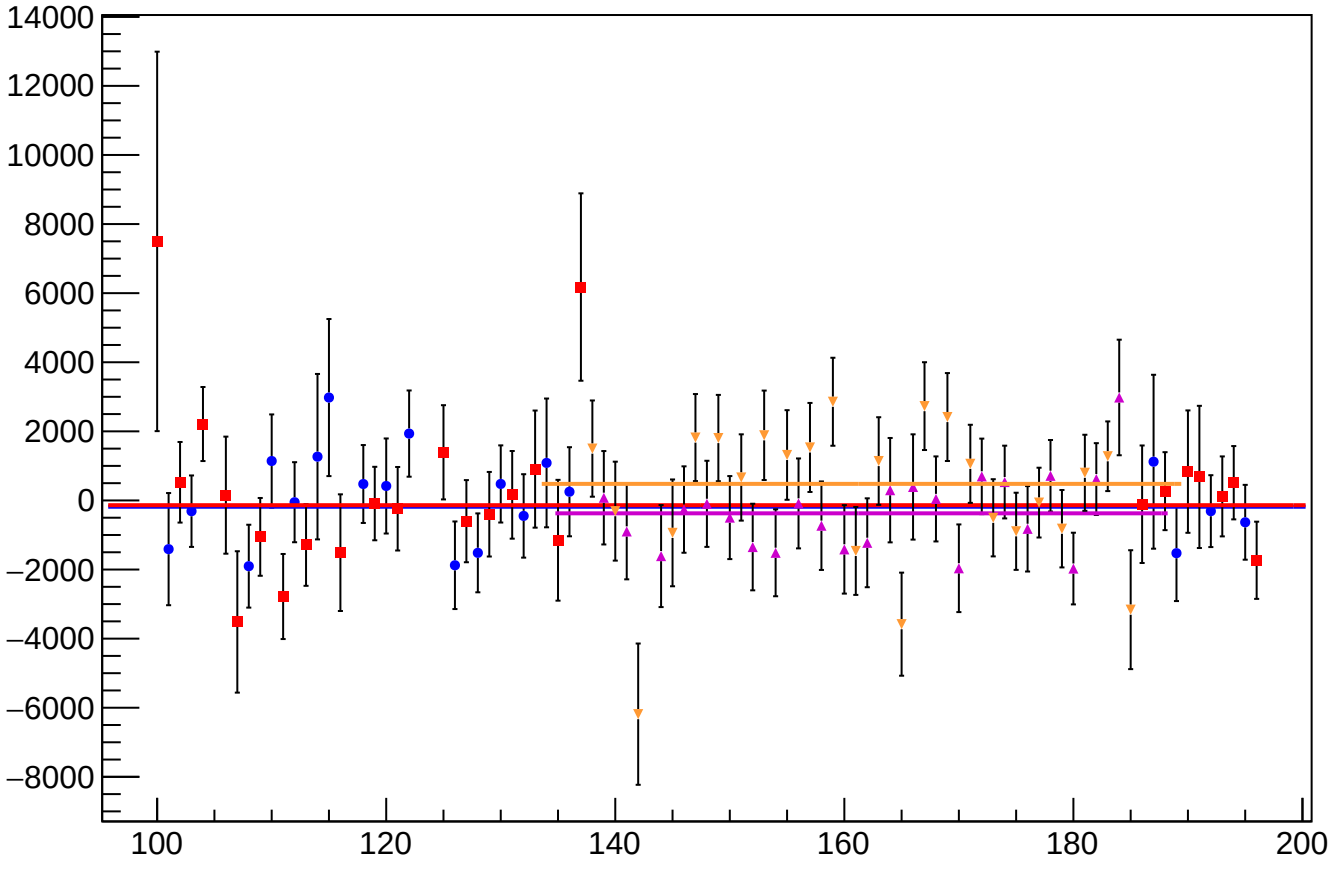
Right: 966.670+/-602.887 $\chi^2$/NDF: 52.0/44

In: 300.649+/-655.597 $\chi^2$/NDF:33.3/42

Out: 924.828+/-606.333 $\chi^2$/NDF:63.0/48

All: 637.068+/-445.141 $\chi^2$/NDF: 96.7/91


asym_usl_atl2_dd_reg_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 2769.884+/-0.652 χ²/NDF: 1422571.8/19
Left Out: 3939.261+/-0.661 χ²/NDF:1092666.9/23
Right Out: 2524.892+/-0.564 χ²/NDF: 3140121.8/24
Left In: 3909.133+/-0.659 χ²/NDF:1300774.2/22
Left: 3924.172+/-0.467 χ²/NDF: 2394482.8/46
Right: 2629.699+/-0.426 χ²/NDF: 4643538.1/44
In: 3332.821+/-0.464 χ²/NDF:4232985.0/42
Out: 3120.674+/-0.429 χ²/NDF:6885922.4/48
All: 3218.479+/-0.315 χ²/NDF: 11231783.4/9




Right In: -181.952+/-290.484 $\chi^2$/NDF: 14.9/19

Left Out: 479.583+/-256.330 $\chi^2$/NDF:45.2/23

Right Out: -137.574+/-269.420 $\chi^2$/NDF: 27.4/24

Left In: -372.901+/-259.314 $\chi^2$/NDF:16.0/22

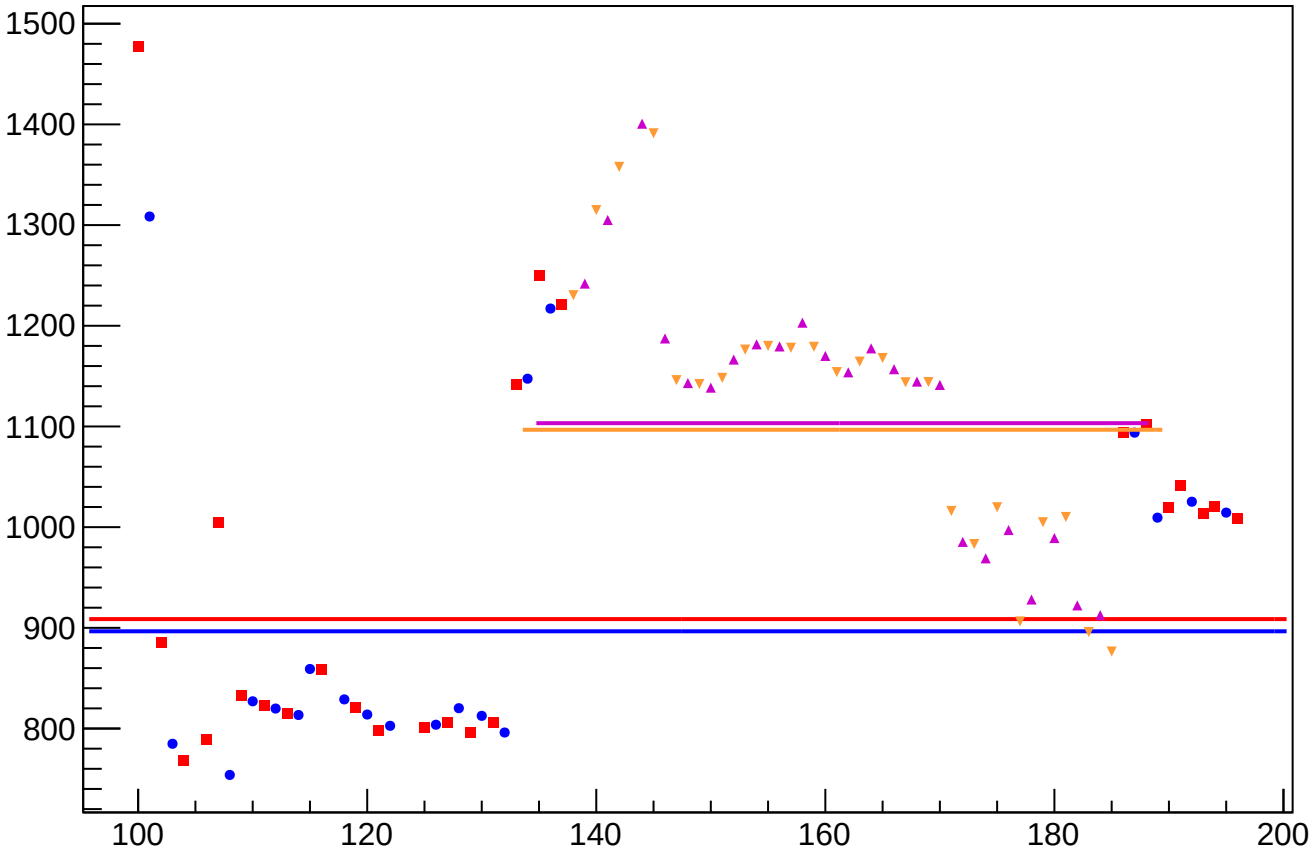
Left: 58.275+/-182.298 $\chi^2$/NDF: 66.7/46

Right: -158.096+/-197.536 $\chi^2$/NDF: 42.3/44

In: -288.217+/-193.448 $\chi^2$/NDF:31.1/42

Out: 186.360+/-185.708 $\chi^2$/NDF:75.3/48

All: -41.245+/-133.968 $\chi^2$/NDF: 109.6/91




Right In: 896.572+/-0.205 $\chi^2$/NDF: 507684.8/19

Left Out: 1096.711+/-0.181 $\chi^2$/NDF:480498.6/23

Right Out: 908.689+/-0.190 $\chi^2$/NDF: 488476.5/24

Left In: 1103.281+/-0.183 $\chi^2$/NDF:447540.3/22

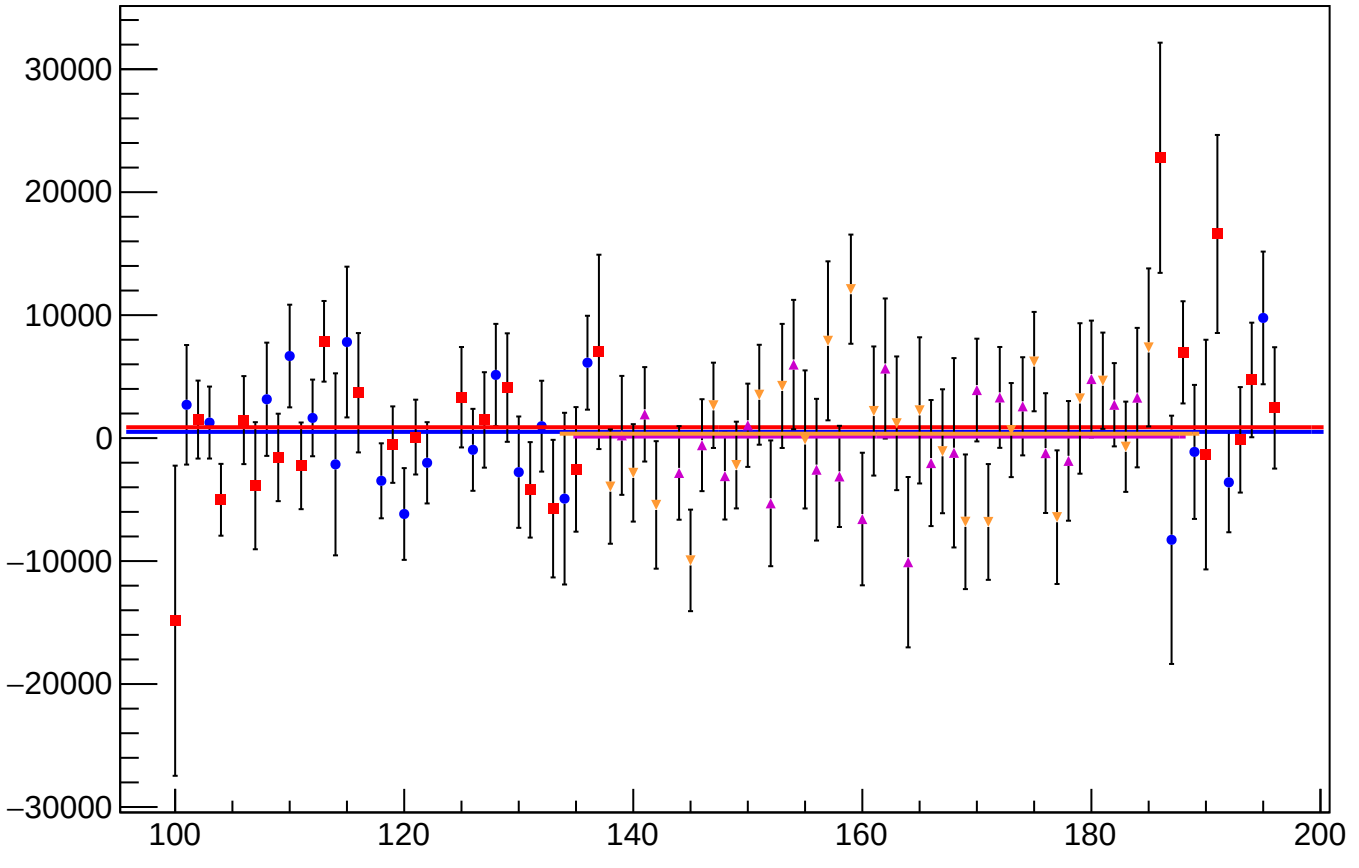
Left: 1099.958+/-0.129 $\chi^2$/NDF: 928688.1/46

Right: 903.108+/-0.139 $\chi^2$/NDF: 998038.3/44

In: 1011.608+/-0.137 $\chi^2$/NDF:1518830.2/42

Out: 1007.038+/-0.131 $\chi^2$/NDF:1482196.4/48

All: 1009.226+/-0.095 $\chi^2$/NDF: 3001608.5/91




Right In: 506.456+/-920.570 $\chi^2$/NDF: 19.5/19

Left Out: 357.728+/-934.221 $\chi^2$/NDF:30.3/23

Right Out: 883.710+/-841.037 $\chi^2$/NDF: 30.4/24

Left In: 126.635+/-932.644 $\chi^2$/NDF:13.8/22

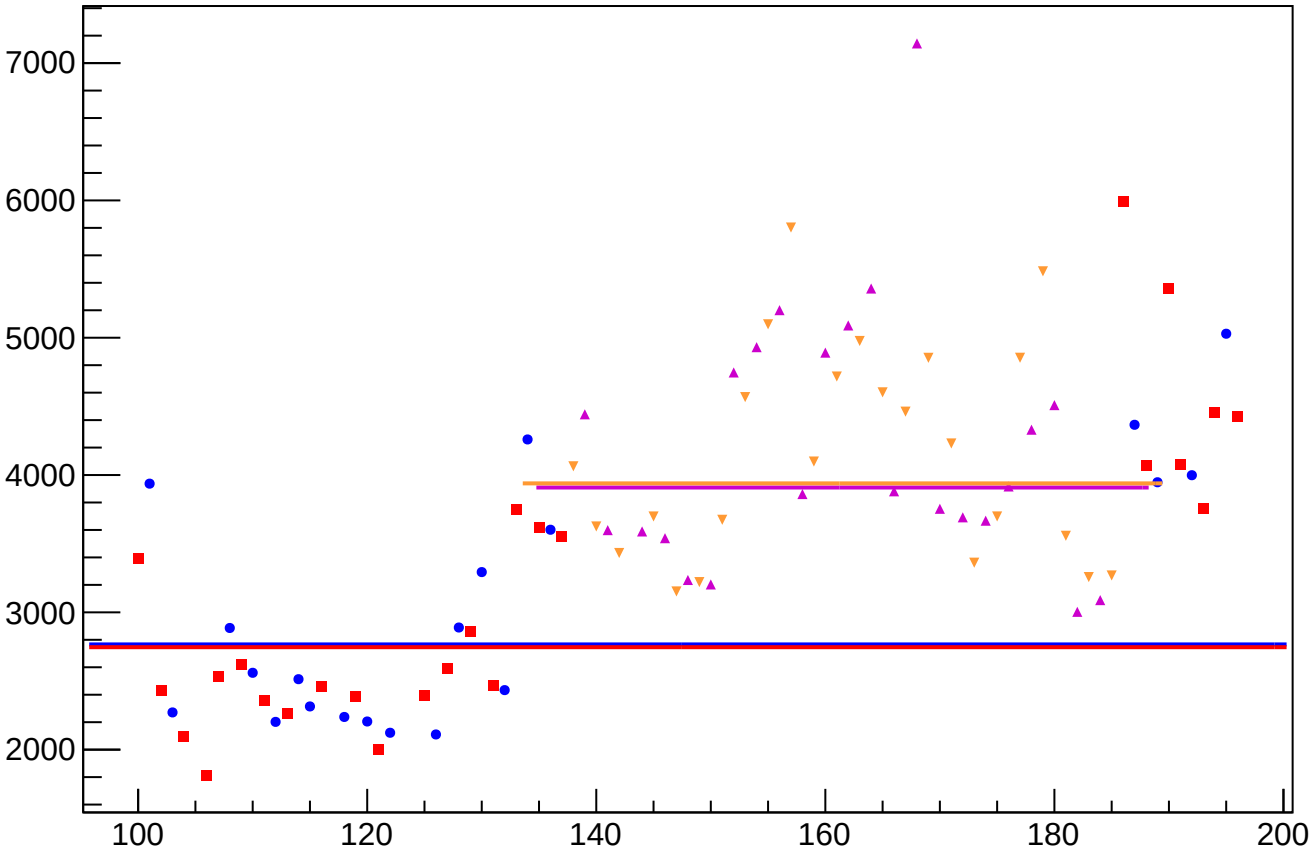
Left: 241.986+/-660.036 $\chi^2$/NDF: 44.1/46

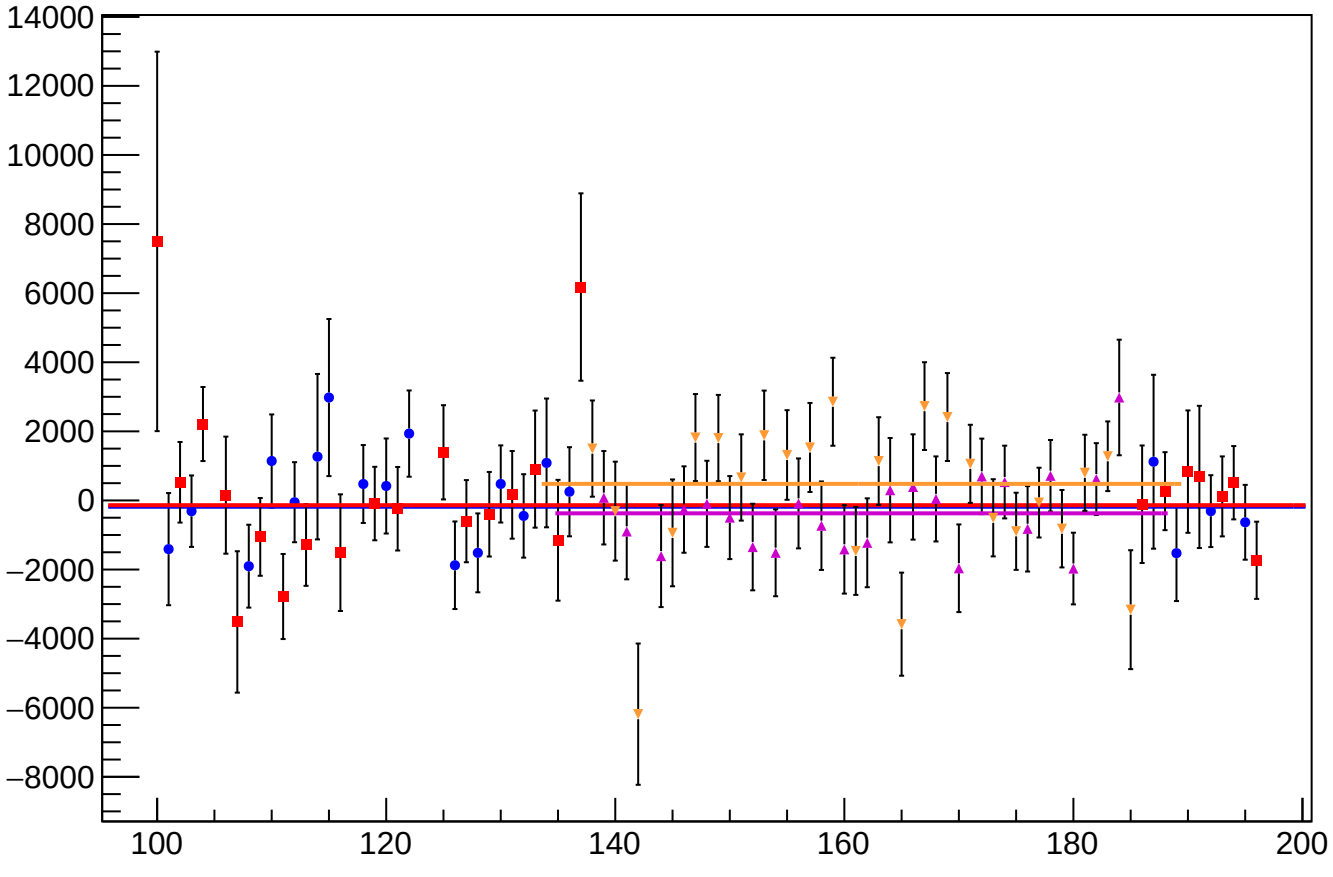
Right: 712.080+/-620.920 $\chi^2$/NDF: 50.0/44

In: 319.020+/-655.169 $\chi^2$/NDF:33.4/42

Out: 648.252+/-625.059 $\chi^2$/NDF:60.8/48

All: 491.375+/-452.253 $\chi^2$/NDF: 94.3/91


asym_usl_atl2_dd_cor_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 2766.366+/-0.651 χ²/NDF: 1429034.4/19
Left Out: 3939.266+/-0.661 χ²/NDF:1092657.5/23
Right Out: 2746.146+/-0.595 χ²/NDF: 1928014.4/24
Left In: 3909.128+/-0.659 χ²/NDF:1300782.7/22
Left: 3924.171+/-0.467 χ²/NDF: 2394482.7/46
Right: 2755.345+/-0.439 χ²/NDF: 3357574.7/44
In: 3330.302+/-0.463 χ²/NDF:4250719.5/42
Out: 3280.250+/-0.442 χ²/NDF:4822486.8/48
All: 3304.100+/-0.320 χ²/NDF: 9079316.9/91




Right In: -181.952+/-290.484 $\chi^2$/NDF: 14.9/19

Left Out: 479.583+/-256.330 $\chi^2$/NDF:45.2/23

Right Out: -137.574+/-269.420 $\chi^2$/NDF: 27.4/24

Left In: -372.901+/-259.314 $\chi^2$/NDF:16.0/22

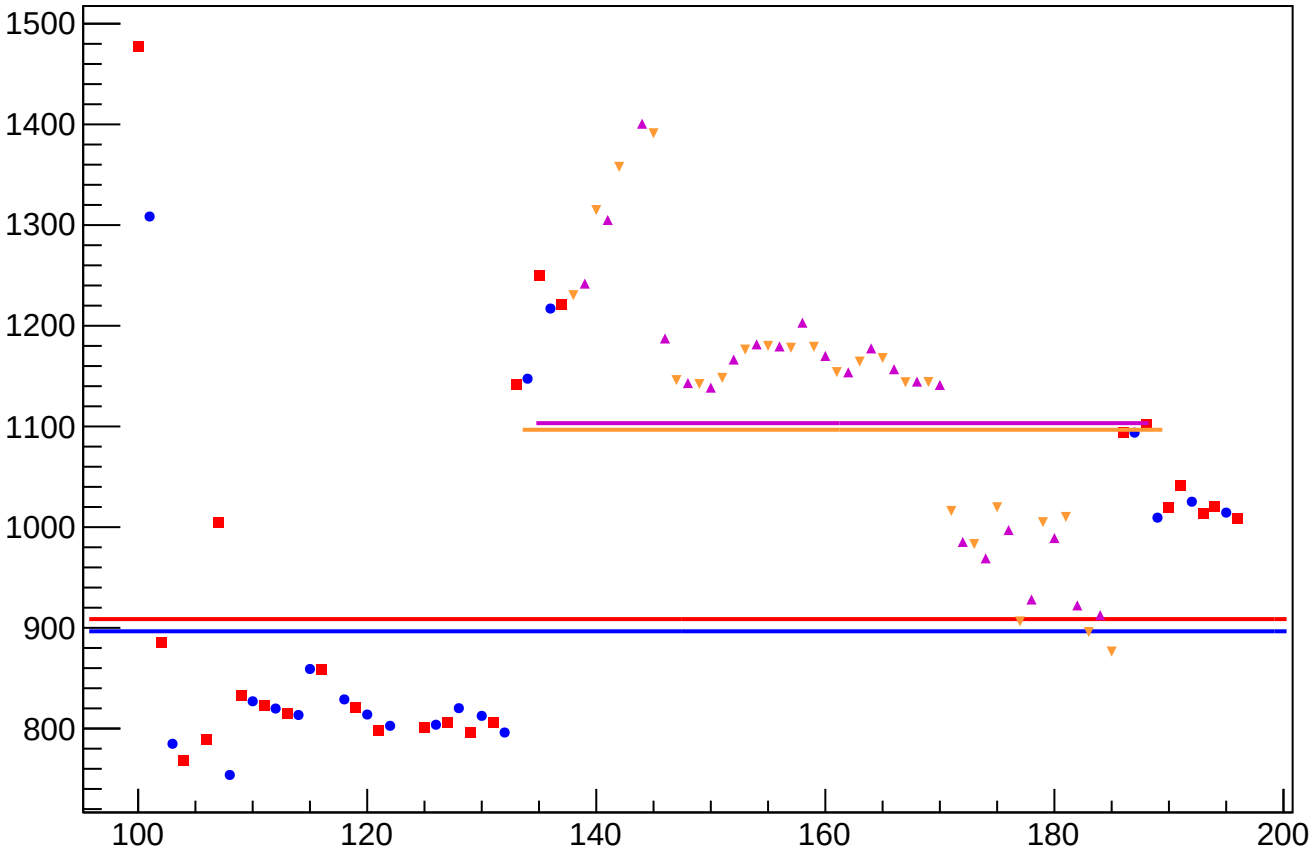
Left: 58.275+/-182.298 $\chi^2$/NDF: 66.7/46

Right: -158.096+/-197.536 $\chi^2$/NDF: 42.3/44

In: -288.217+/-193.448 $\chi^2$/NDF:31.1/42

Out: 186.360+/-185.708 $\chi^2$/NDF:75.3/48

All: -41.245+/-133.968 $\chi^2$/NDF: 109.6/91




Right In: 896.572+/-0.205 $\chi^2$/NDF: 507684.8/19

Left Out: 1096.711+/-0.181 $\chi^2$/NDF:480498.6/23

Right Out: 908.689+/-0.190 $\chi^2$/NDF: 488476.5/24

Left In: 1103.281+/-0.183 $\chi^2$/NDF:447540.3/22

Left: 1099.958+/-0.129 $\chi^2$/NDF: 928688.1/46

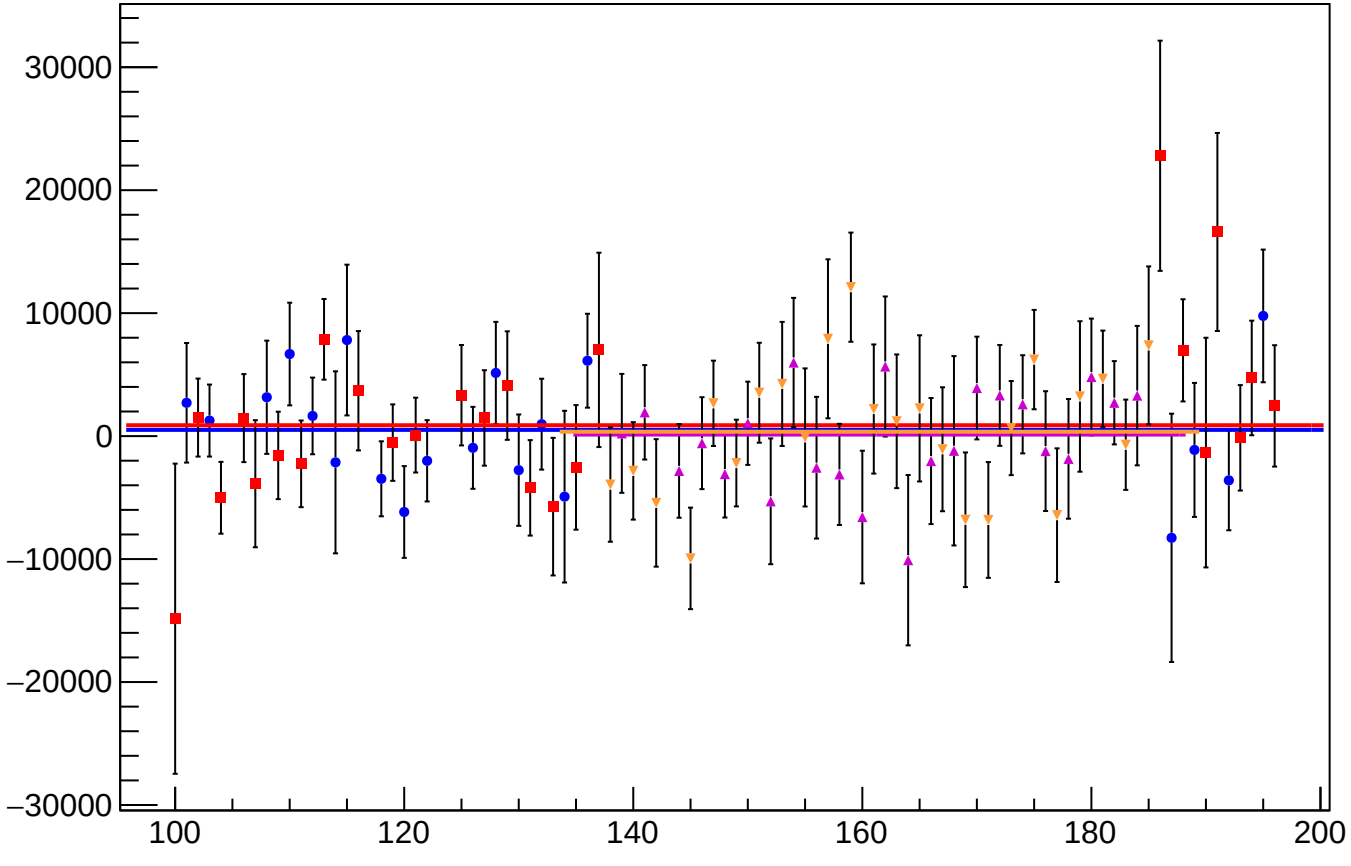
Right: 903.108+/-0.139 $\chi^2$/NDF: 998038.3/44

In: 1011.608+/-0.137 $\chi^2$/NDF:1518830.2/42

Out: 1007.038+/-0.131 $\chi^2$/NDF:1482196.4/48

All: 1009.226+/-0.095 $\chi^2$/NDF: 3001608.5/91

asym_usl_atl2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 506.456+/-920.570 $\chi^2$/NDF: 19.5/19

Left Out: 357.728+/-934.221 $\chi^2$/NDF:30.3/23

Right Out: 883.710+/-841.037 $\chi^2$/NDF: 30.4/24

Left In: 126.635+/-932.644 $\chi^2$/NDF:13.8/22

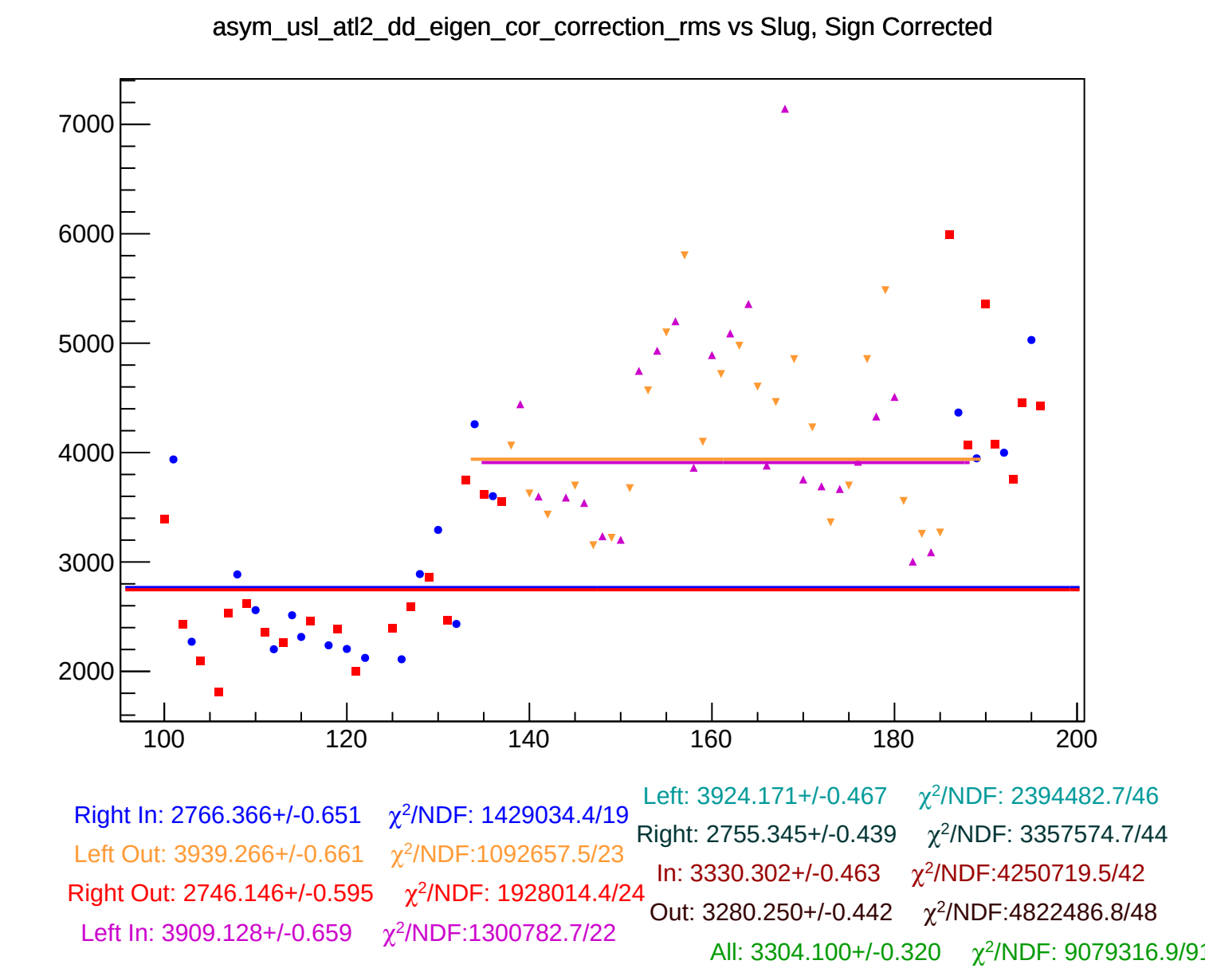
Left: 241.986+/-660.036 $\chi^2$/NDF: 44.1/46

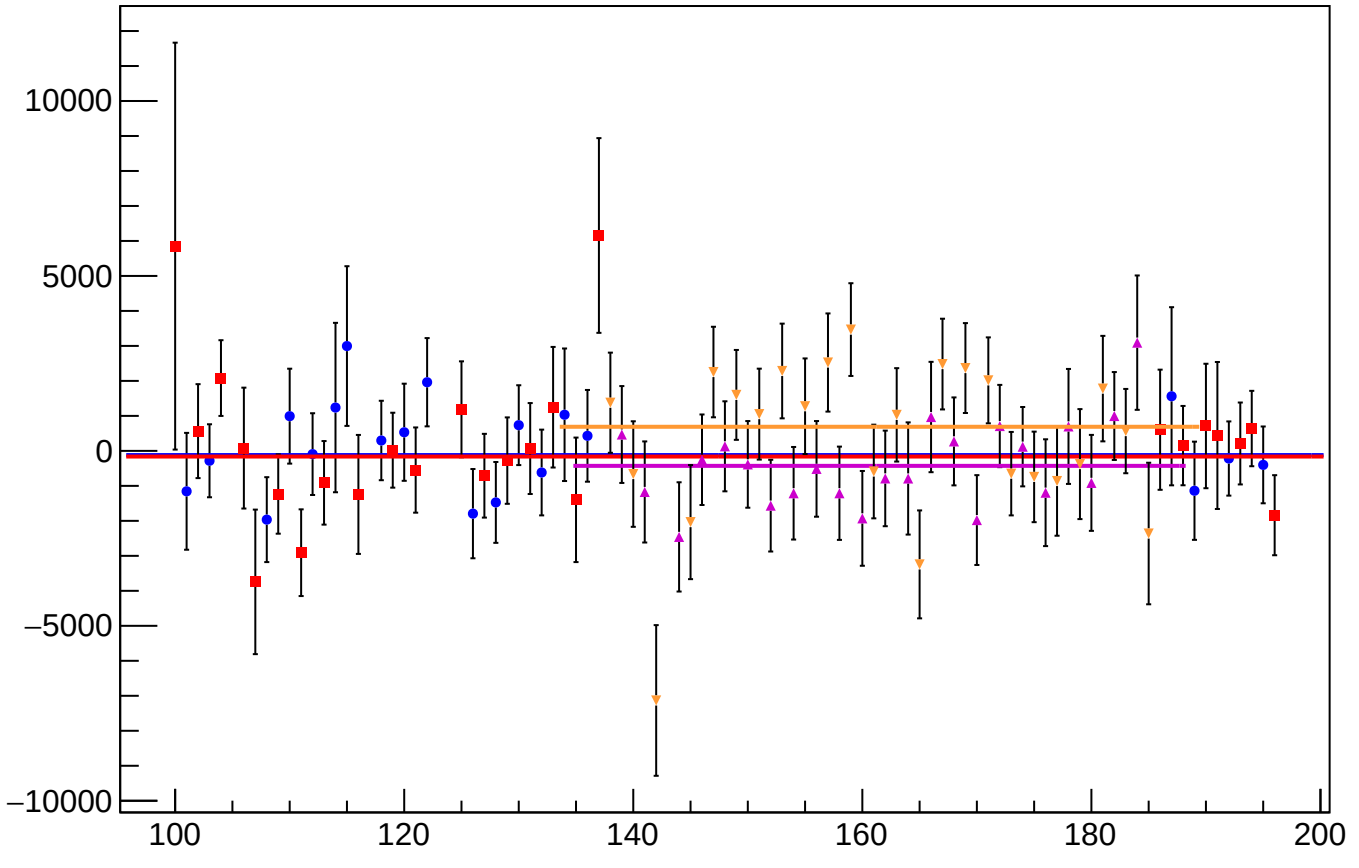
Right: 712.080+/-620.920 $\chi^2$/NDF: 50.0/44

In: 319.020+/-655.169 $\chi^2$/NDF:33.4/42

Out: 648.252+/-625.059 $\chi^2$/NDF:60.8/48

All: 491.375+/-452.253 $\chi^2$/NDF: 94.3/91


asym_usl_atl2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 2766.366+/-0.651 χ²/NDF: 1429034.4/19
Left Out: 3939.266+/-0.661 χ²/NDF:1092657.5/23
Right Out: 2746.146+/-0.595 χ²/NDF: 1928014.4/24
Left In: 3909.128+/-0.659 χ²/NDF:1300782.7/22
Left: 3924.171+/-0.467 χ²/NDF: 2394482.7/46
Right: 2755.345+/-0.439 χ²/NDF: 3357574.7/44
In: 3330.302+/-0.463 χ²/NDF:4250719.5/42
Out: 3280.250+/-0.442 χ²/NDF:4822486.8/48
All: 3304.100+/-0.320 χ²/NDF: 9079316.9/91




Right In: -120.194+/-294.128 $\chi^2$/NDF: 14.1/19

Left Out: 689.087+/-284.388 $\chi^2$/NDF:45.7/23

Right Out: -161.835+/-274.136 $\chi^2$/NDF: 26.4/24

Left In: -428.052+/-284.383 $\chi^2$/NDF:14.6/22

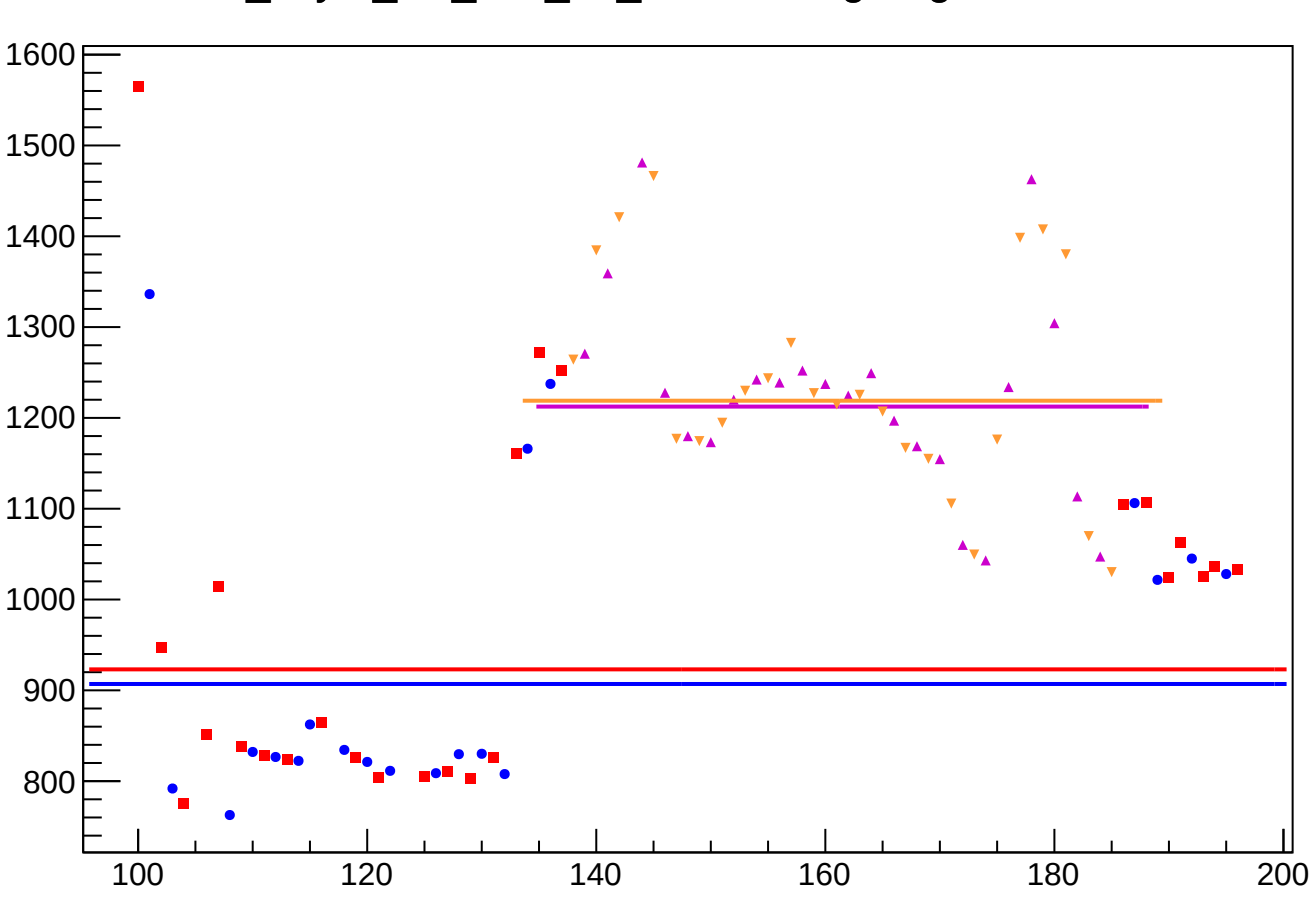
Left: 130.507+/-201.091 $\chi^2$/NDF: 68.1/46

Right: -142.478+/-200.539 $\chi^2$/NDF: 40.4/44

In: -279.308+/-204.447 $\chi^2$/NDF:29.2/42

Out: 248.012+/-197.368 $\chi^2$/NDF:76.7/48

All: -6.360+/-141.997 $\chi^2$/NDF: 109.4/91




Right In: 906.994+/-0.208 $\chi^2$/NDF: 522197.5/19

Left Out: 1218.928+/-0.201 $\chi^2$/NDF:293874.9/23

Right Out: 923.095+/-0.194 $\chi^2$/NDF: 495520.7/24

Left In: 1212.447+/-0.201 $\chi^2$/NDF:260320.0/22

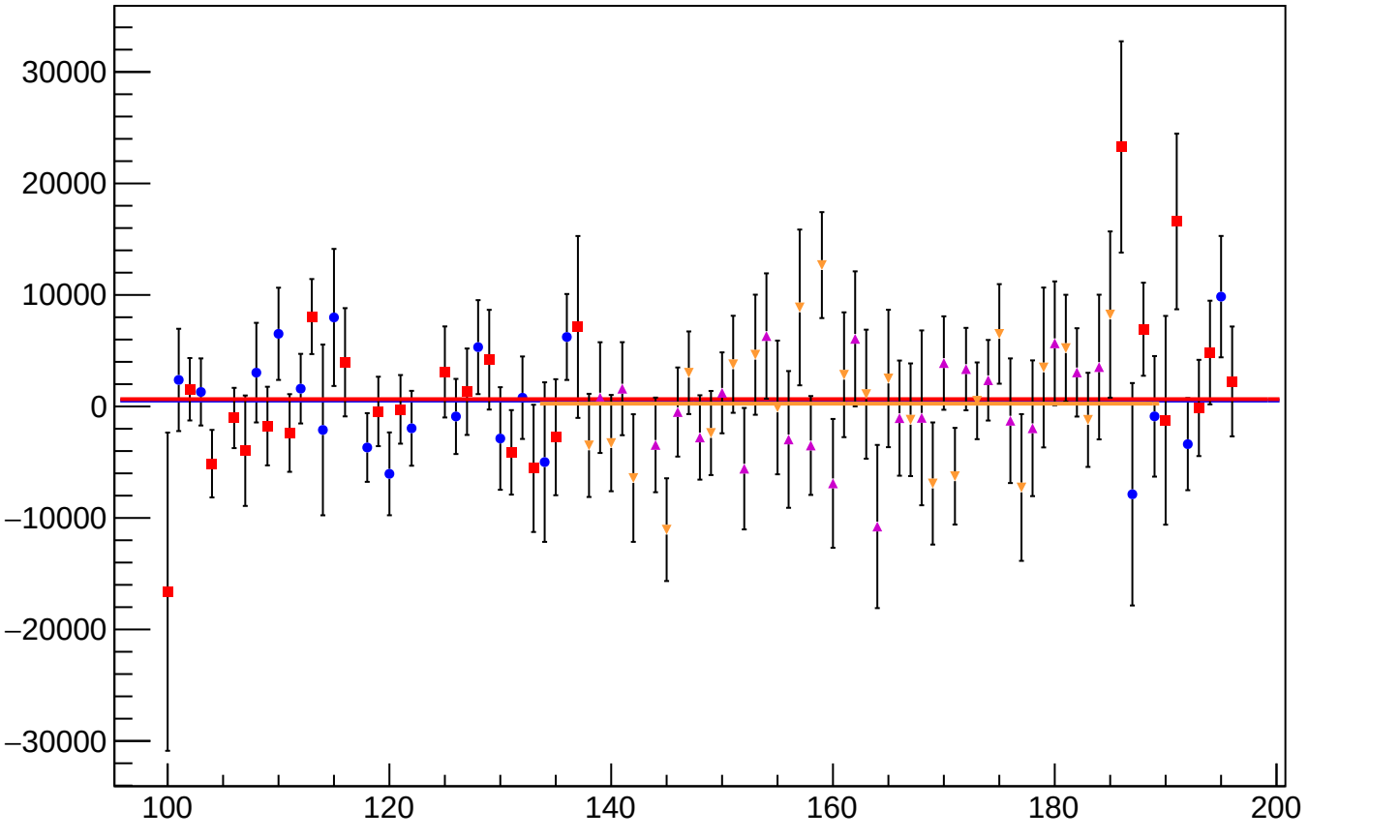
Left: 1215.687+/-0.142 $\chi^2$/NDF: 554714.2/46

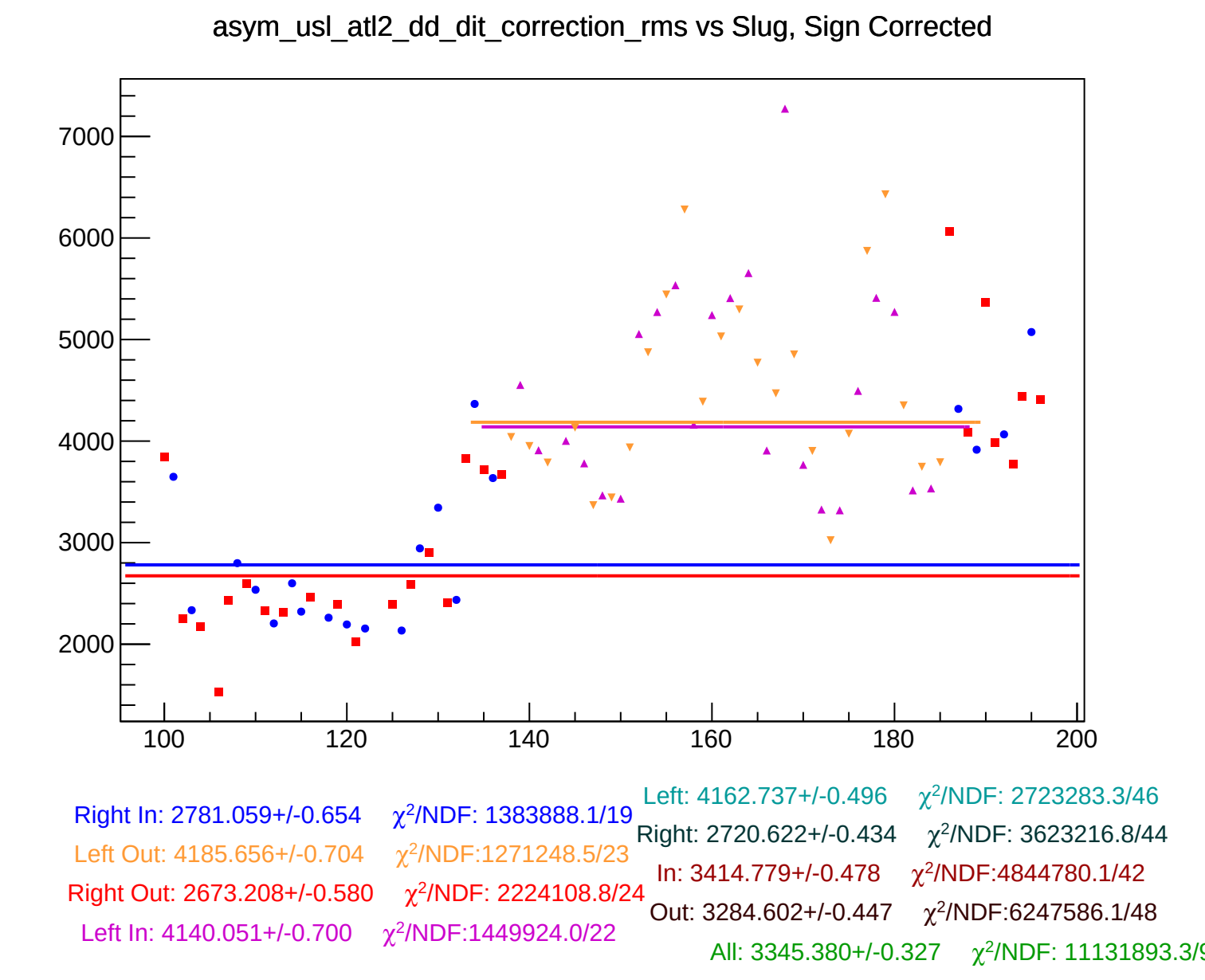
Right: 915.616+/-0.142 $\chi^2$/NDF: 1020927.3/44

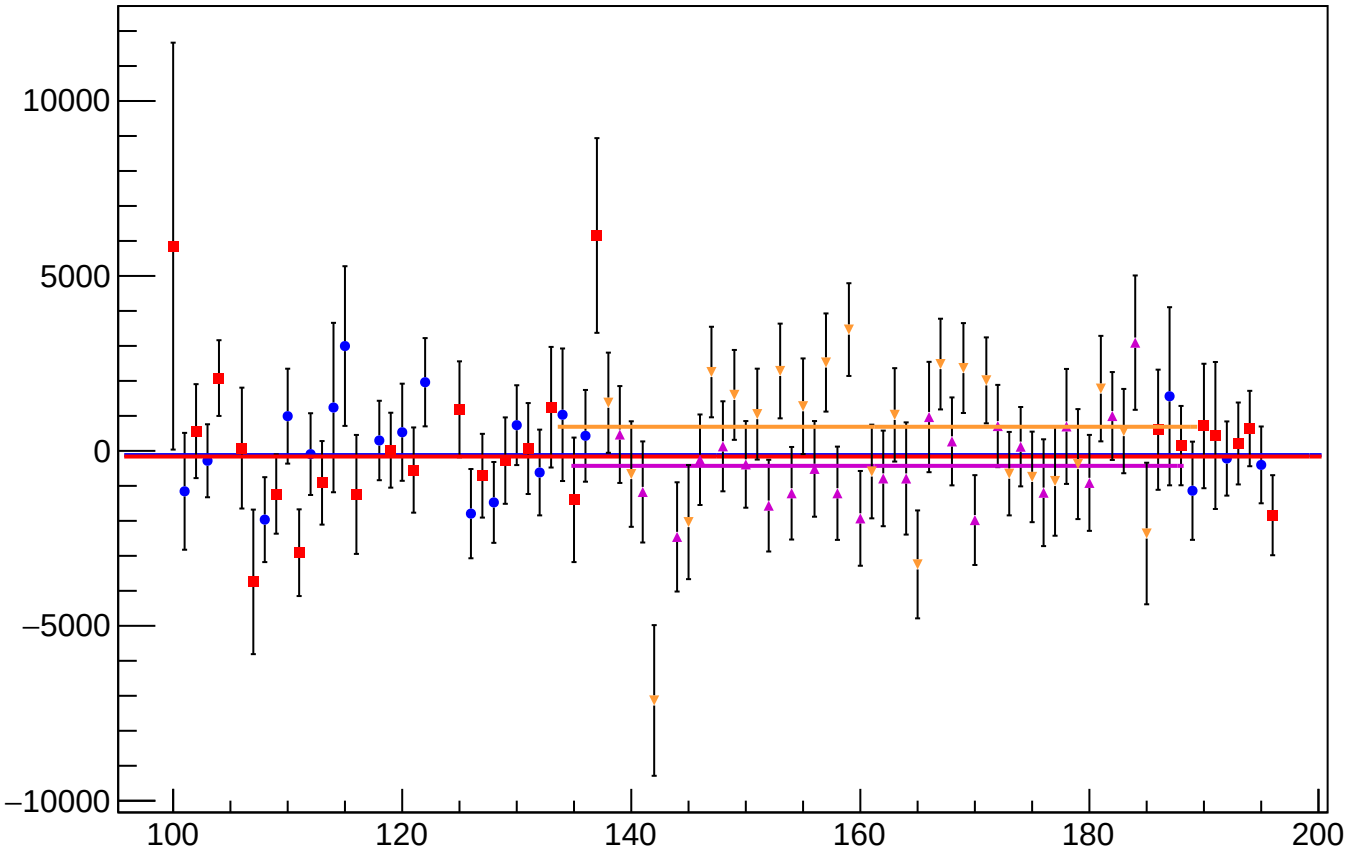
In: 1064.865+/-0.145 $\chi^2$/NDF:1897330.3/42

Out: 1065.481+/-0.140 $\chi^2$/NDF:1911964.1/48

All: 1065.184+/-0.100 $\chi^2$/NDF: 3809303.9/91


asym_usl_atl2_dd_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: 529.202+/-925.486 χ²/NDF: 19.3/19
Left Out: 252.803+/-995.149 χ²/NDF:29.7/23
Right Out: 653.155+/-819.735 χ²/NDF: 31.1/24
Left In: 266.235+/-990.083 χ²/NDF:13.4/22
Left: 259.553+/-701.879 χ²/NDF: 43.1/46
Right: 598.662+/-613.638 χ²/NDF: 50.4/44
In: 406.576+/-676.101 χ²/NDF:32.8/42
Out: 491.316+/-632.716 χ²/NDF:60.9/48
All: 451.752+/-461.975 χ²/NDF: 93.7/91


asym_usl_atl2_dd_dit_correction_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 2781.059+/-0.654 χ²/NDF: 1383888.1/19
Left Out: 4185.656+/-0.704 χ²/NDF:1271248.5/23
Right Out: 2673.208+/-0.580 χ²/NDF: 2224108.8/24
Left In: 4140.051+/-0.700 χ²/NDF:1449924.0/22
Left: 4162.737+/-0.496 χ²/NDF: 2723283.3/46
Right: 2720.622+/-0.434 χ²/NDF: 3623216.8/44
In: 3414.779+/-0.478 χ²/NDF:4844780.1/42
Out: 3284.602+/-0.447 χ²/NDF:6247586.1/48
All: 3345.380+/-0.327 χ²/NDF: 11131893.3/9




Right In: -120.194+/-294.128 $\chi^2$/NDF: 14.1/19

Left Out: 689.089+/-284.388 $\chi^2$/NDF:45.7/23

Right Out: -161.838+/-274.136 $\chi^2$/NDF: 26.4/24

Left In: -428.050+/-284.383 $\chi^2$/NDF:14.6/22

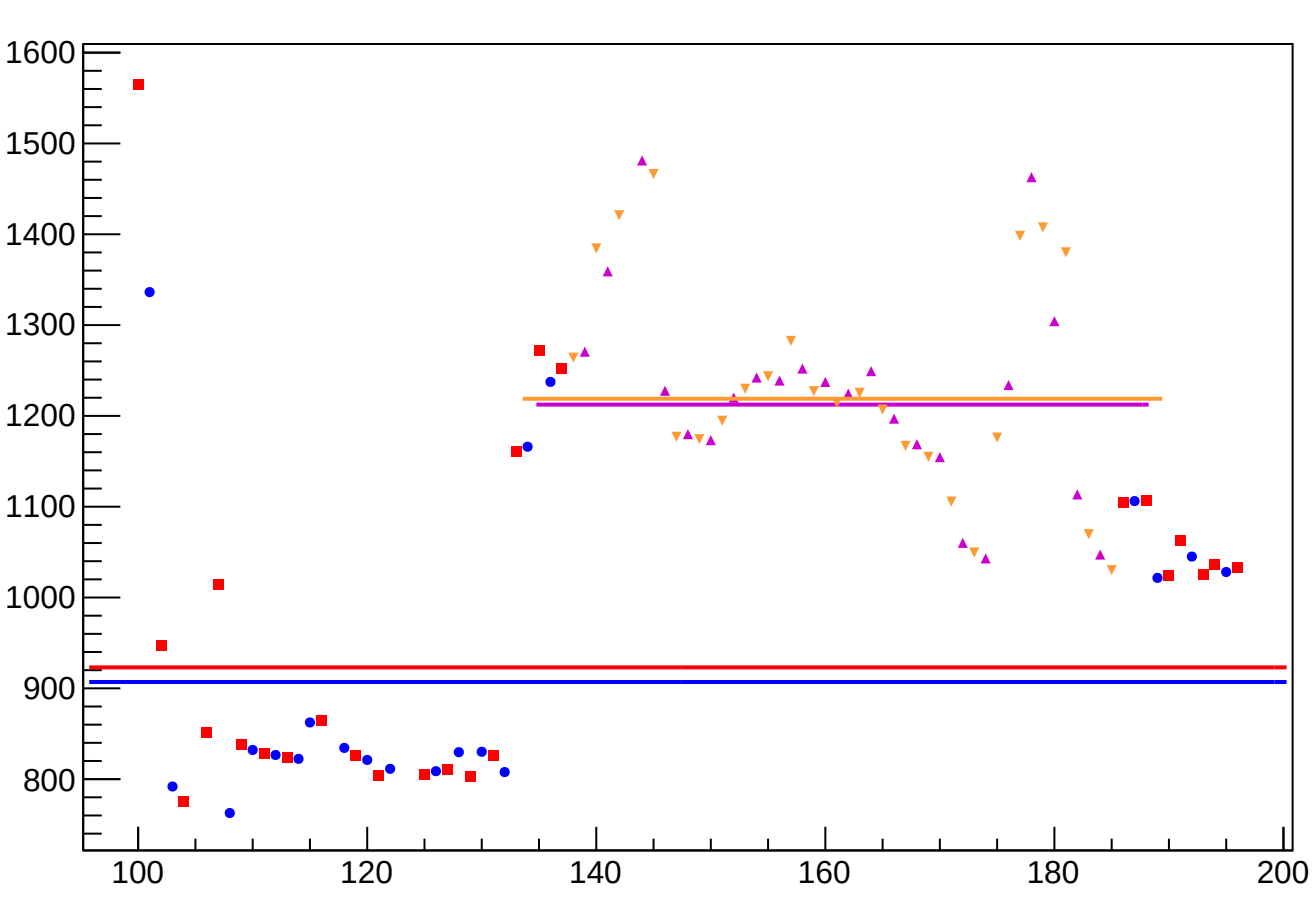
Left: 130.510+/-201.091 $\chi^2$/NDF: 68.1/46

Right: -142.480+/-200.539 $\chi^2$/NDF: 40.4/44

In: -279.306+/-204.448 $\chi^2$/NDF:29.2/42

Out: 248.011+/-197.368 $\chi^2$/NDF:76.7/48

All: -6.360+/-141.997 $\chi^2$/NDF: 109.4/91




Right In: 906.994+/-0.208 $\chi^2$/NDF: 522197.2/19

Left Out: 1218.929+/-0.201 $\chi^2$/NDF:293885.7/23

Right Out: 923.095+/-0.194 $\chi^2$/NDF: 495520.4/24

Left In: 1212.448+/-0.201 $\chi^2$/NDF:260330.4/22

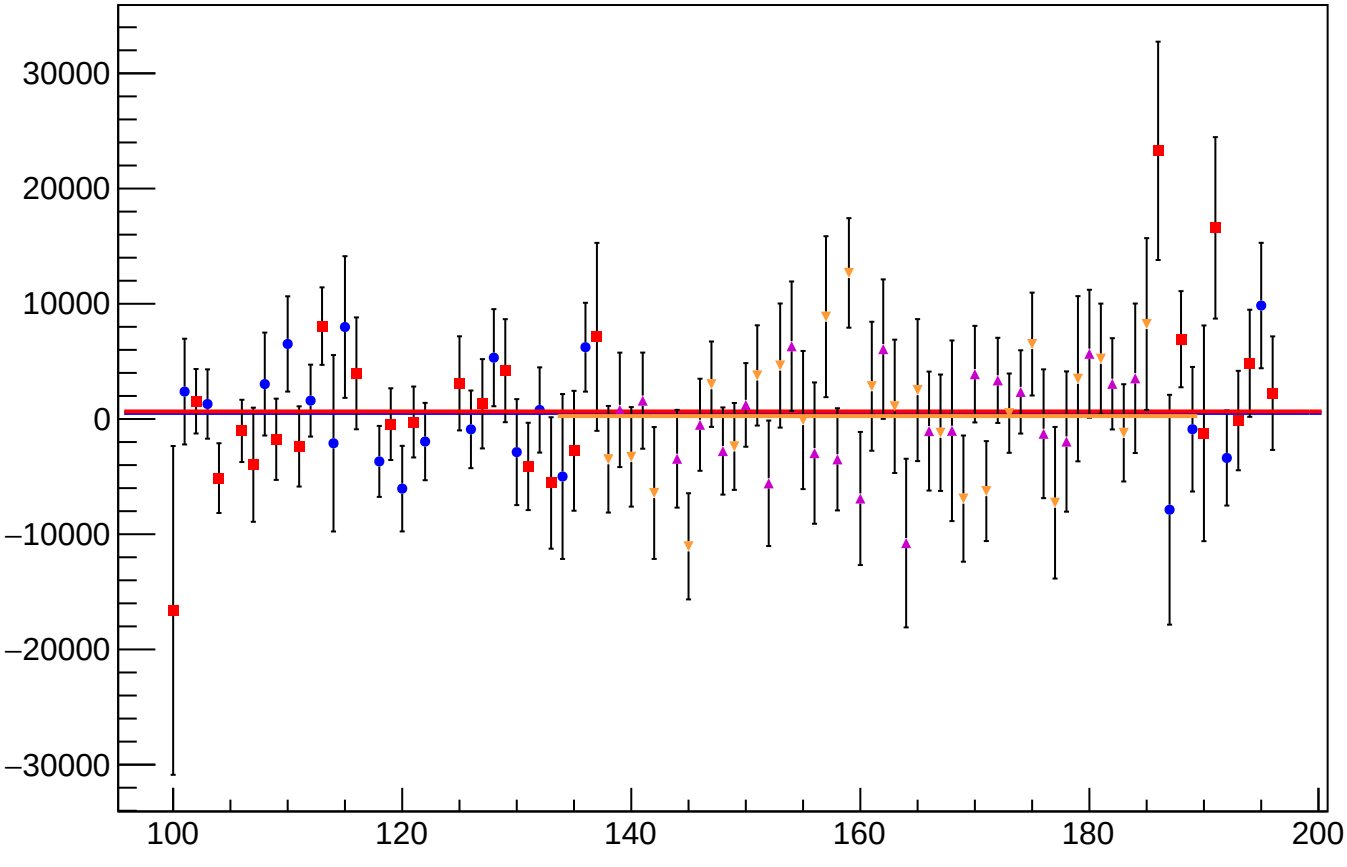
Left: 1215.689+/-0.142 $\chi^2$/NDF: 554735.4/46

Right: 915.616+/-0.142 $\chi^2$/NDF: 1020926.5/44

In: 1064.865+/-0.145 $\chi^2$/NDF:1897346.3/42

Out: 1065.481+/-0.140 $\chi^2$/NDF:1911981.5/48

All: 1065.184+/-0.100 $\chi^2$/NDF: 3809337.2/91




Right In: 529.198+/-925.484 $\chi^2$/NDF: 19.3/19

Left Out: 252.805+/-995.151 $\chi^2$/NDF:29.7/23

Right Out: 653.150+/-819.733 $\chi^2$/NDF: 31.1/24

Left In: 266.236+/-990.085 $\chi^2$/NDF:13.4/22

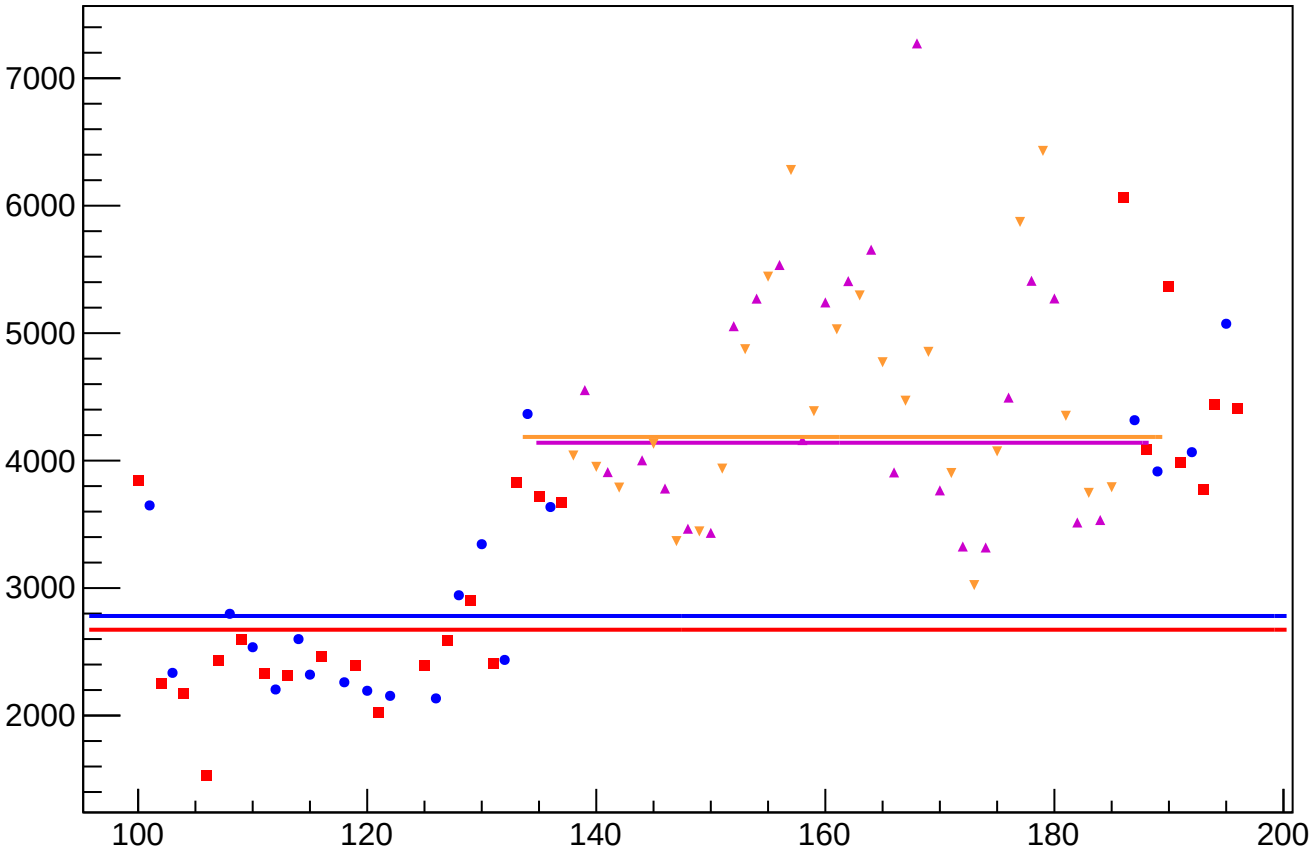
Left: 259.555+/-701.880 $\chi^2$/NDF: 43.1/46

Right: 598.657+/-613.636 $\chi^2$/NDF: 50.4/44

In: 406.575+/-676.101 $\chi^2$/NDF:32.8/42

Out: 491.315+/-632.715 $\chi^2$/NDF:60.9/48

All: 451.751+/-461.974 $\chi^2$/NDF: 93.7/91




Right In: 2781.050+/-0.654 $\chi^2$/NDF: 1383908.7/19

Left Out: 4185.664+/-0.704 $\chi^2$/NDF:1271247.4/23

Right Out: 2673.201+/-0.580 $\chi^2$/NDF: 2224128.9/24

Left In: 4140.059+/-0.700 $\chi^2$/NDF:1449925.1/22

Left: 4162.745+/-0.496 $\chi^2$/NDF: 2723283.4/46

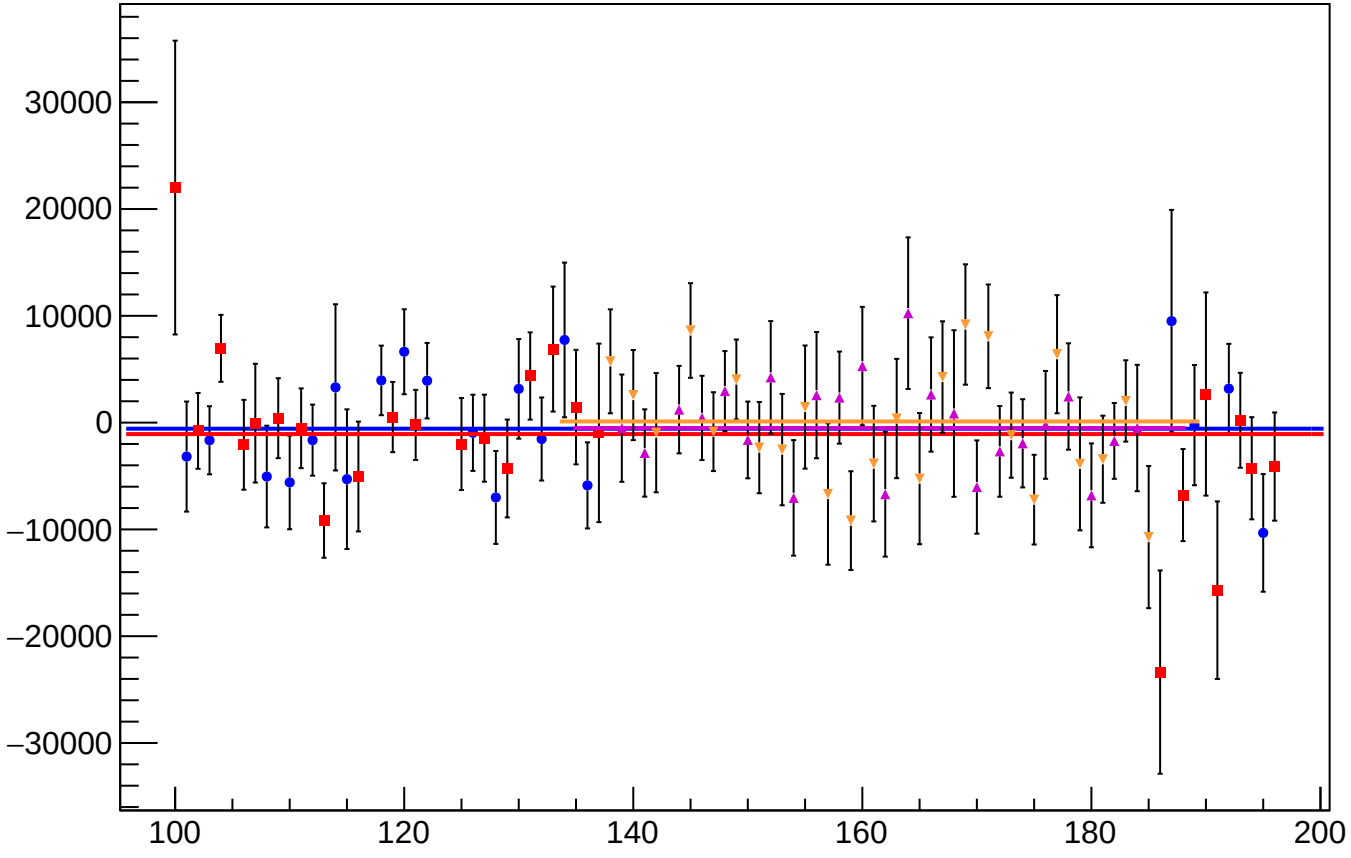
Right: 2720.615+/-0.434 $\chi^2$/NDF: 3623257.2/44

In: 3414.775+/-0.478 $\chi^2$/NDF:4844848.2/42

Out: 3284.598+/-0.447 $\chi^2$/NDF:6247657.1/48

All: 3345.376+/-0.327 $\chi^2$/NDF: 11132032.3/9

# asym_usl_atl2_dd_mean vs Slug, Sign Corrected




Right In: -571.293+/-973.757 $\chi^2$/NDF: 21.1/19

Left Out: 108.966+/-975.598 $\chi^2$/NDF:28.0/23

Right Out: -1073.794+/-895.391 $\chi^2$/NDF: 31.7/24

Left In: -509.024+/-974.173 $\chi^2$/NDF:13.5/22

Left: -200.481+/-689.348 $\chi^2$/NDF: 41.8/46

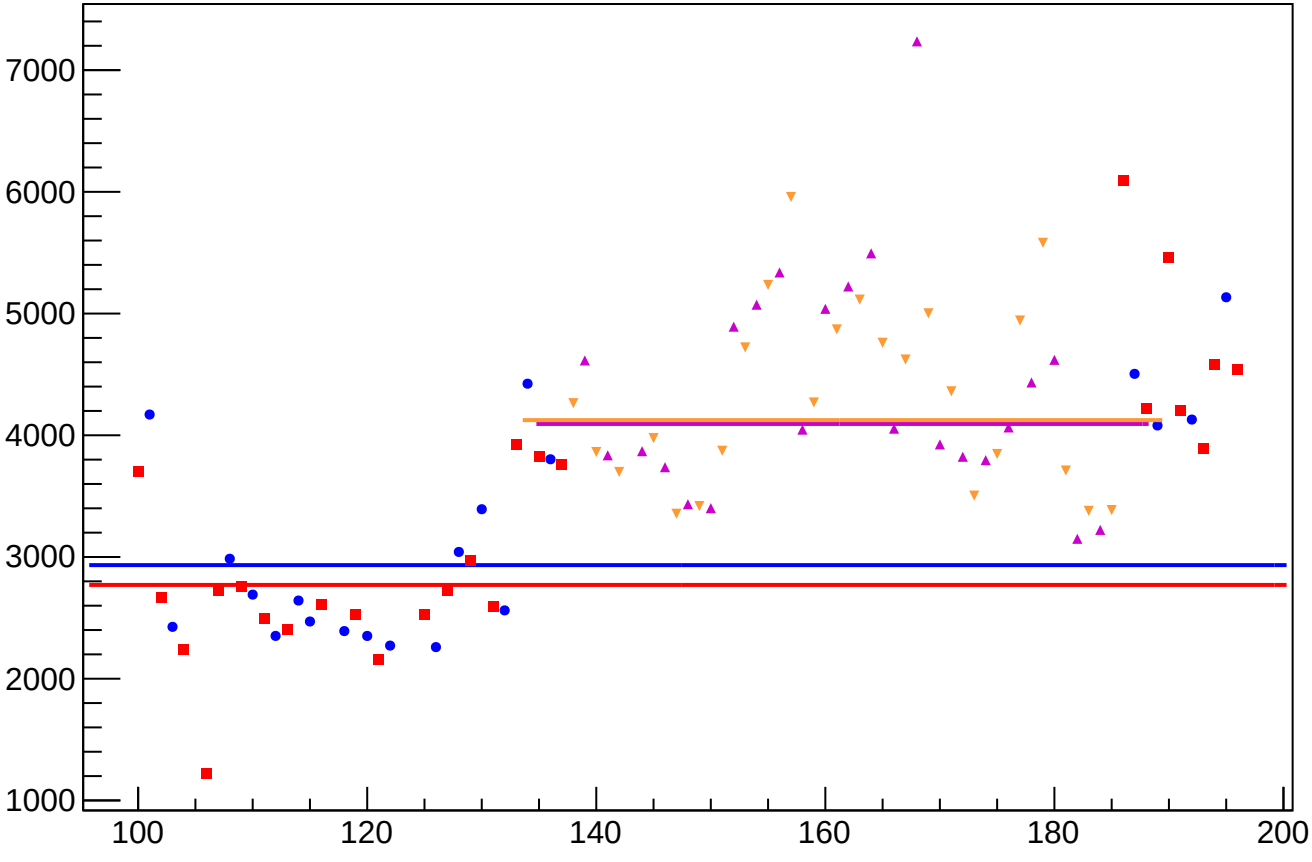
Right: -843.574+/-659.103 $\chi^2$/NDF: 53.0/44

In: -540.172+/-688.697 $\chi^2$/NDF:34.6/42

Out: -533.025+/-659.673 $\chi^2$/NDF:60.5/48

All: -536.445+/-476.390 $\chi^2$/NDF: 95.2/91

# asym_usl_atl2_dd_rms vs Slug, Sign Corrected




Right In: 2933.262+/-0.689 $\chi^2$/NDF: 1313088.6/19

Left Out: 4124.485+/-0.690 $\chi^2$/NDF:969929.3/23

Right Out: 2770.547+/-0.609 $\chi^2$/NDF: 2482115.5/24

Left In: 4093.066+/-0.689 $\chi^2$/NDF:1162851.8/22

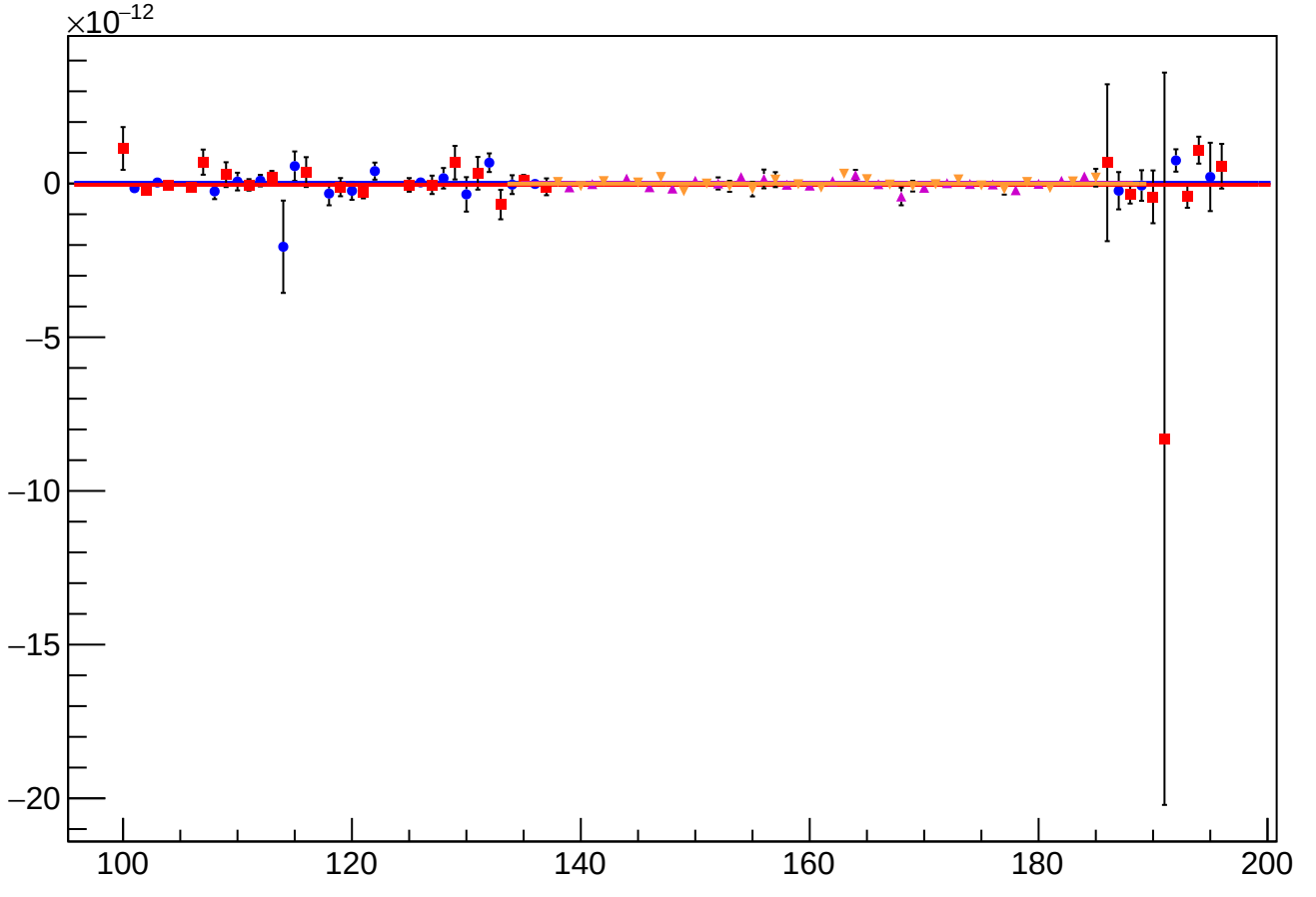
Left: 4108.753+/-0.487 $\chi^2$/NDF: 2133819.7/46

Right: 2841.977+/-0.456 $\chi^2$/NDF: 3826533.7/44

In: 3512.916+/-0.487 $\chi^2$/NDF:3893964.0/42

Out: 3363.654+/-0.457 $\chi^2$/NDF:5616630.0/48

All: 3433.482+/-0.333 $\chi^2$/NDF: 9560589.5/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.2/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.2/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.7/22

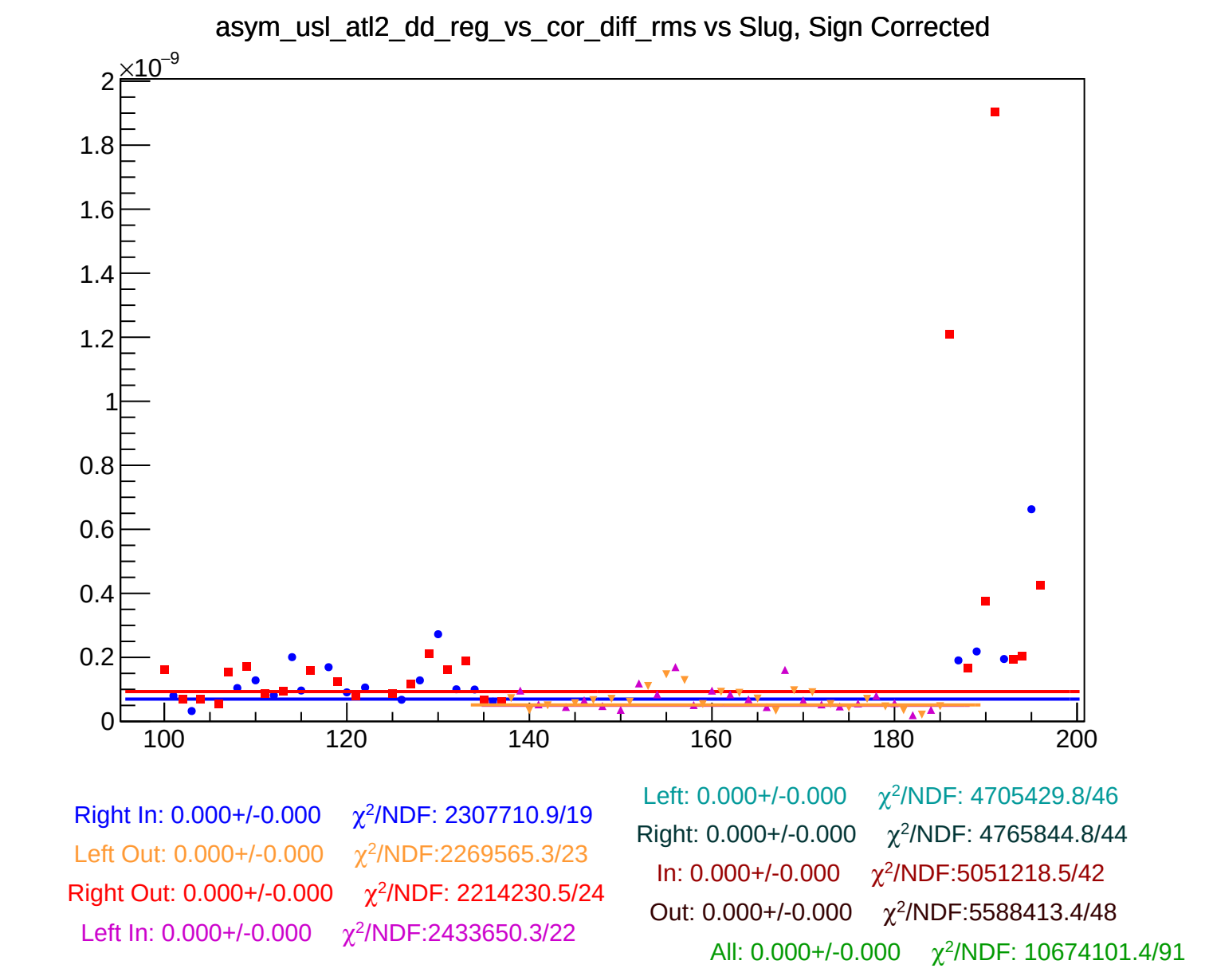
Left: 0.000+/-0.000 $\chi^2$/NDF: 50.4/46

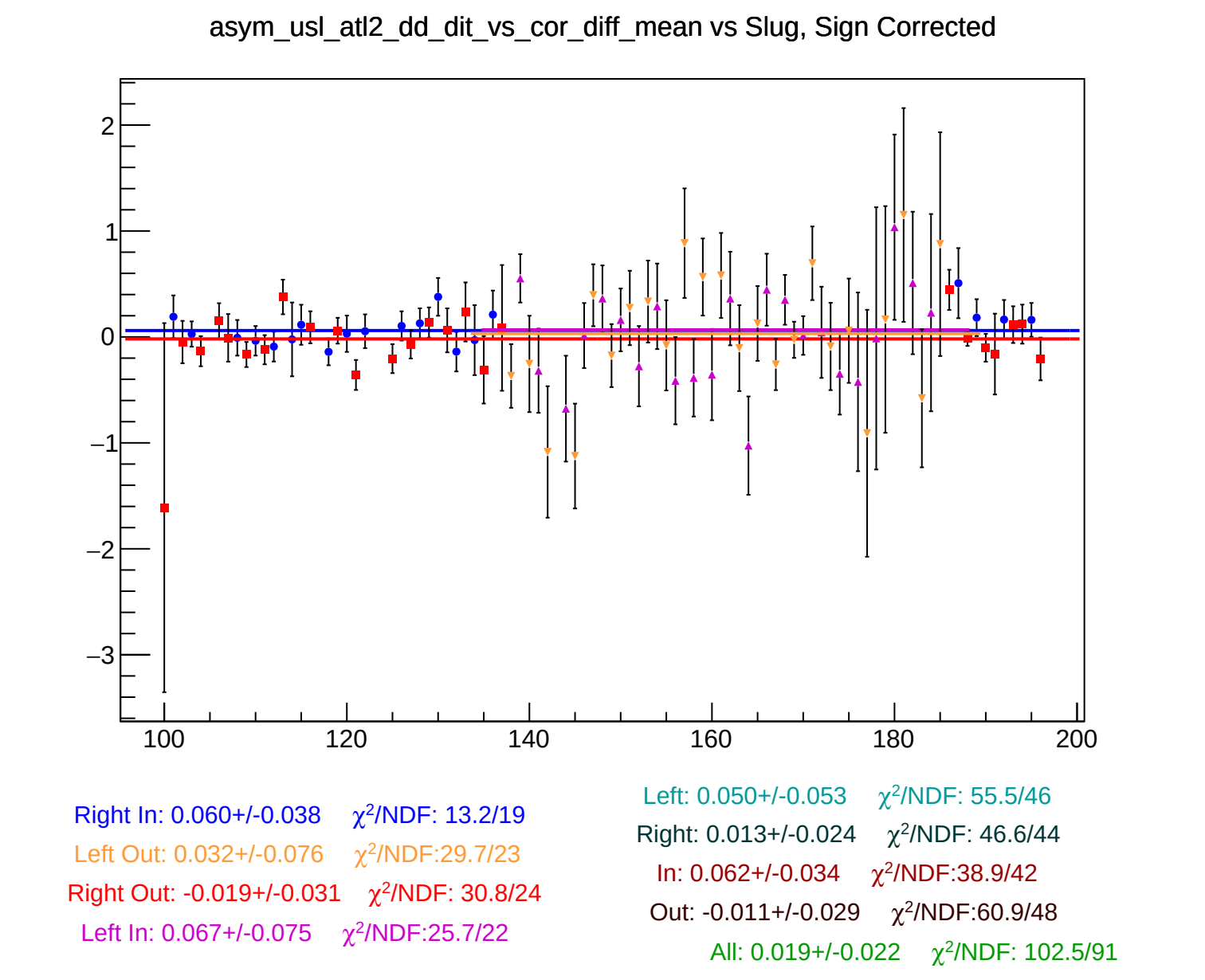
Right: -0.000+/-0.000 $\chi^2$/NDF: 47.7/44

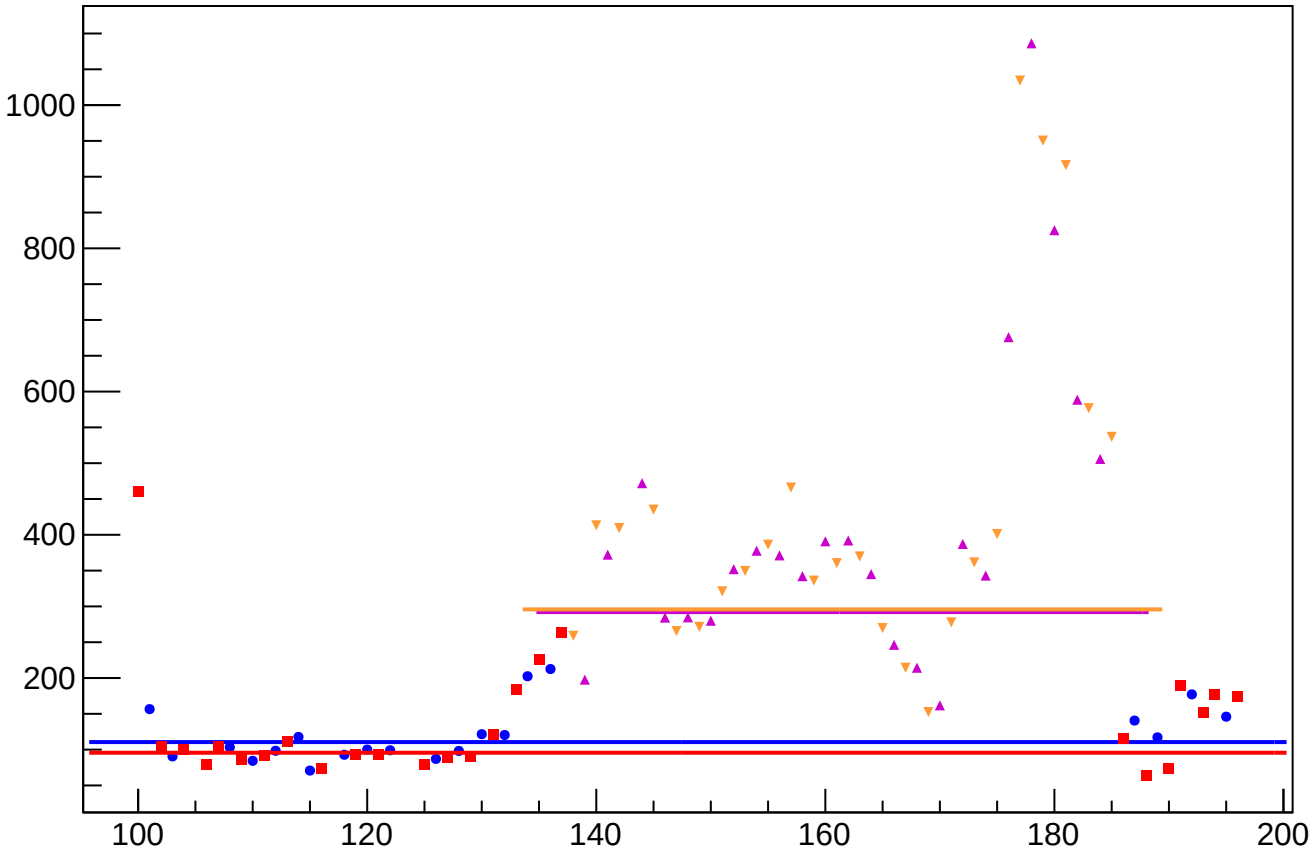
In: 0.000+/-0.000 $\chi^2$/NDF:45.4/42

Out: -0.000+/-0.000 $\chi^2$/NDF:51.8/48

All: 0.000+/-0.000 $\chi^2$/NDF: 98.2/91


asym_usl_atl2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2307710.9/19
Left Out: 0.000+/-0.000 χ²/NDF:2269565.3/23
Right Out: 0.000+/-0.000 χ²/NDF: 2214230.5/24
Left In: 0.000+/-0.000 χ²/NDF:2433650.3/22
Left: 0.000+/-0.000 χ²/NDF: 4705429.8/46
Right: 0.000+/-0.000 χ²/NDF: 4765844.8/44
In: 0.000+/-0.000 χ²/NDF:5051218.5/42
Out: 0.000+/-0.000 χ²/NDF:5588413.4/48
All: 0.000+/-0.000 χ²/NDF: 10674101.4/91


asym_usl_atl2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: 0.060+/-0.038 χ²/NDF: 13.2/19
Left Out: 0.032+/-0.076 χ²/NDF:29.7/23
Right Out: -0.019+/-0.031 χ²/NDF: 30.8/24
Left In: 0.067+/-0.075 χ²/NDF:25.7/22
Left: 0.050+/-0.053 χ²/NDF: 55.5/46
Right: 0.013+/-0.024 χ²/NDF: 46.6/44
In: 0.062+/-0.034 χ²/NDF:38.9/42
Out: -0.011+/-0.029 χ²/NDF:60.9/48
All: 0.019+/-0.022 χ²/NDF: 102.5/91




Right In: 110.554+/-0.027 $\chi^2$/NDF: 1417220.5/19

Left Out: 295.798+/-0.054 $\chi^2$/NDF:5501077.8/23

Right Out: 95.679+/-0.022 $\chi^2$/NDF: 2479858.4/24

Left In: 292.100+/-0.053 $\chi^2$/NDF:5055737.7/22

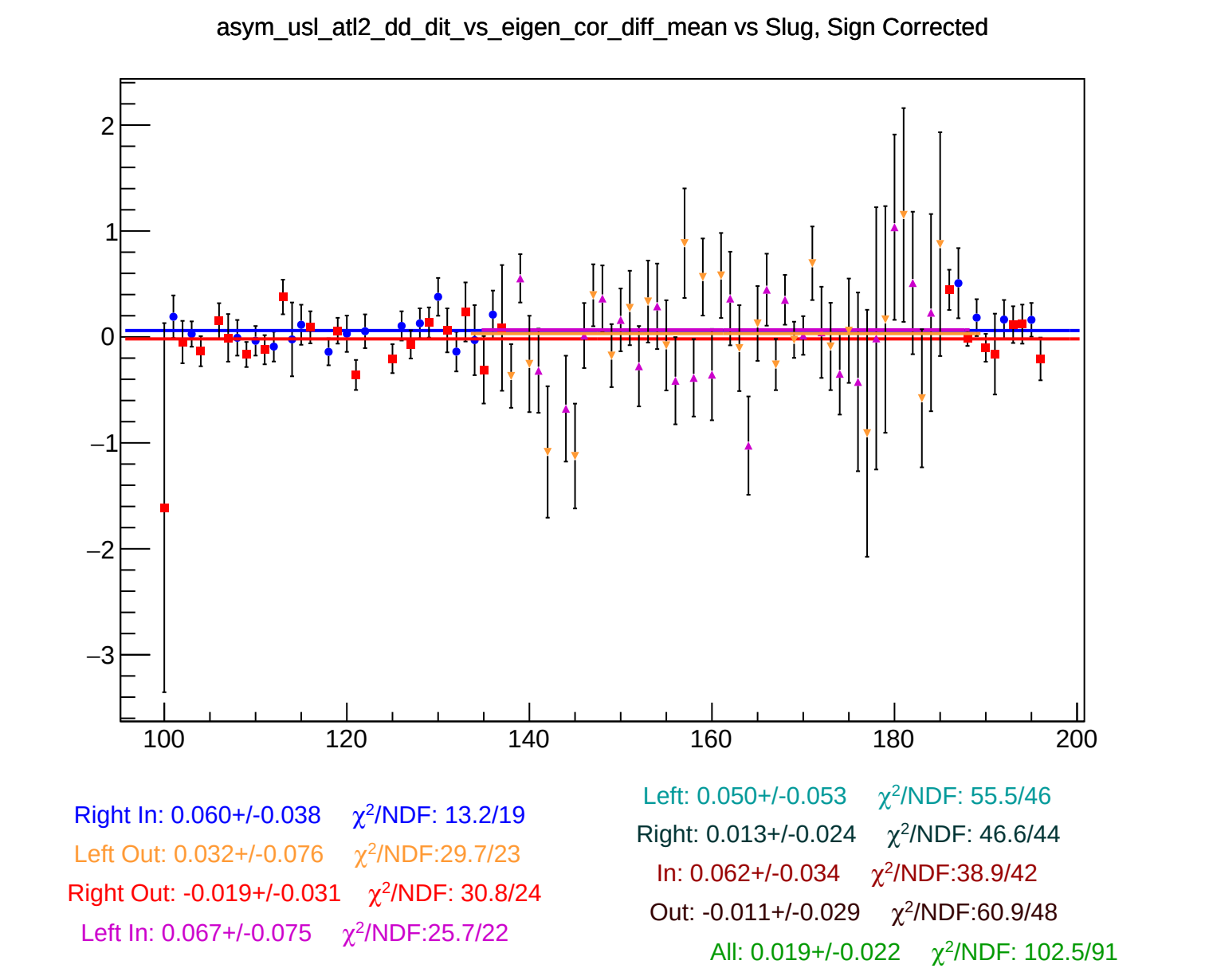
Left: 293.917+/-0.038 $\chi^2$/NDF: 10559224.0/46

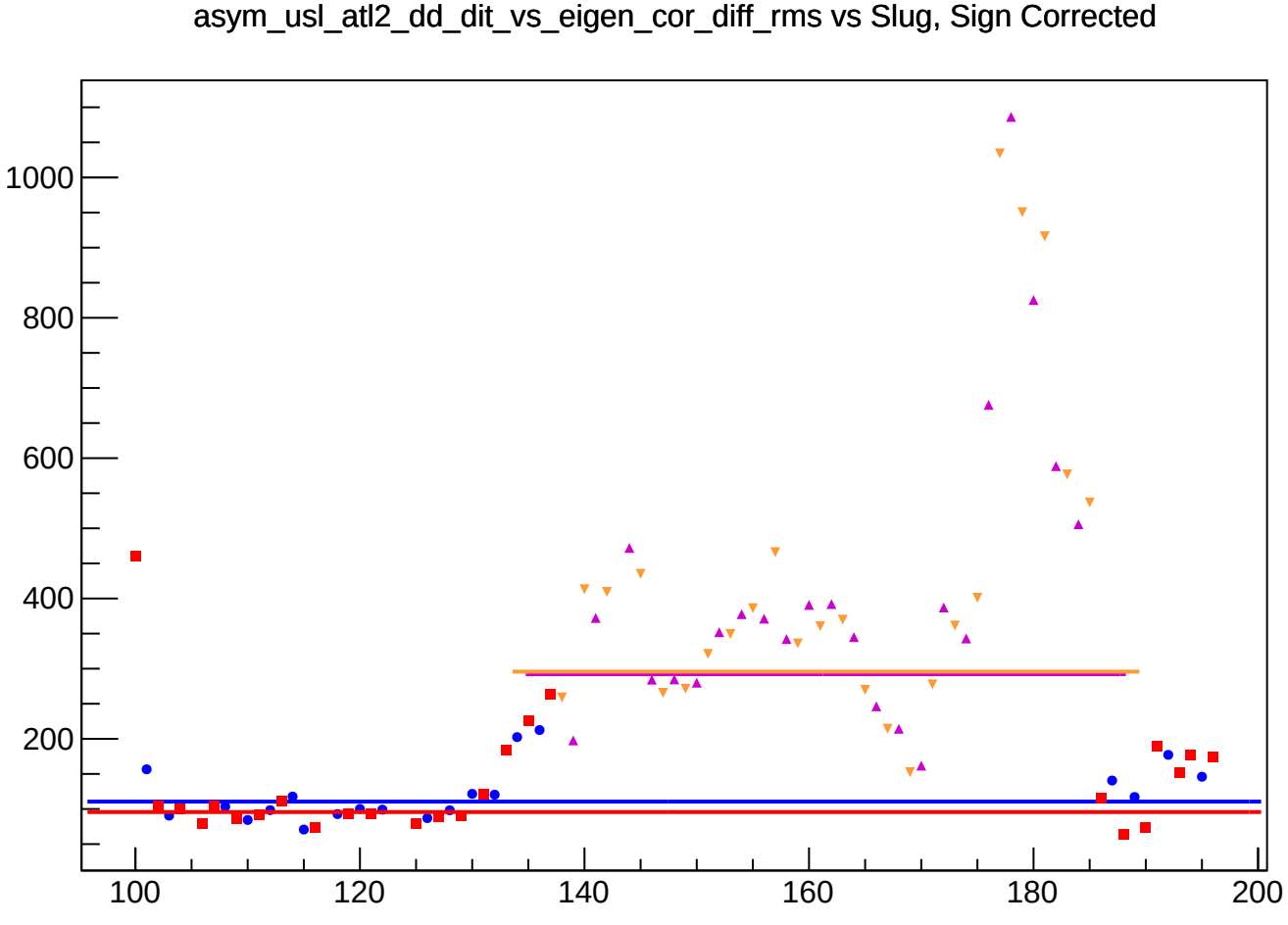
Right: 101.663+/-0.017 $\chi^2$/NDF: 4083449.7/44

In: 147.346+/-0.024 $\chi^2$/NDF:15886832.8/42

Out: 124.073+/-0.020 $\chi^2$/NDF:19878797.9/48

All: 133.849+/-0.015 $\chi^2$/NDF: 36320865.3/91


asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: 0.060+/-0.038 χ²/NDF: 13.2/19
Left Out: 0.032+/-0.076 χ²/NDF:29.7/23
Right Out: -0.019+/-0.031 χ²/NDF: 30.8/24
Left In: 0.067+/-0.075 χ²/NDF:25.7/22
Left: 0.050+/-0.053 χ²/NDF: 55.5/46
Right: 0.013+/-0.024 χ²/NDF: 46.6/44
In: 0.062+/-0.034 χ²/NDF:38.9/42
Out: -0.011+/-0.029 χ²/NDF:60.9/48
All: 0.019+/-0.022 χ²/NDF: 102.5/91




Right In: 110.554+/-0.027 $\chi^2$/NDF: 1417220.5/19

Left Out: 295.798+/-0.054 $\chi^2$/NDF:5501077.8/23

Right Out: 95.679+/-0.022 $\chi^2$/NDF: 2479858.4/24

Left In: 292.100+/-0.053 $\chi^2$/NDF:5055737.7/22

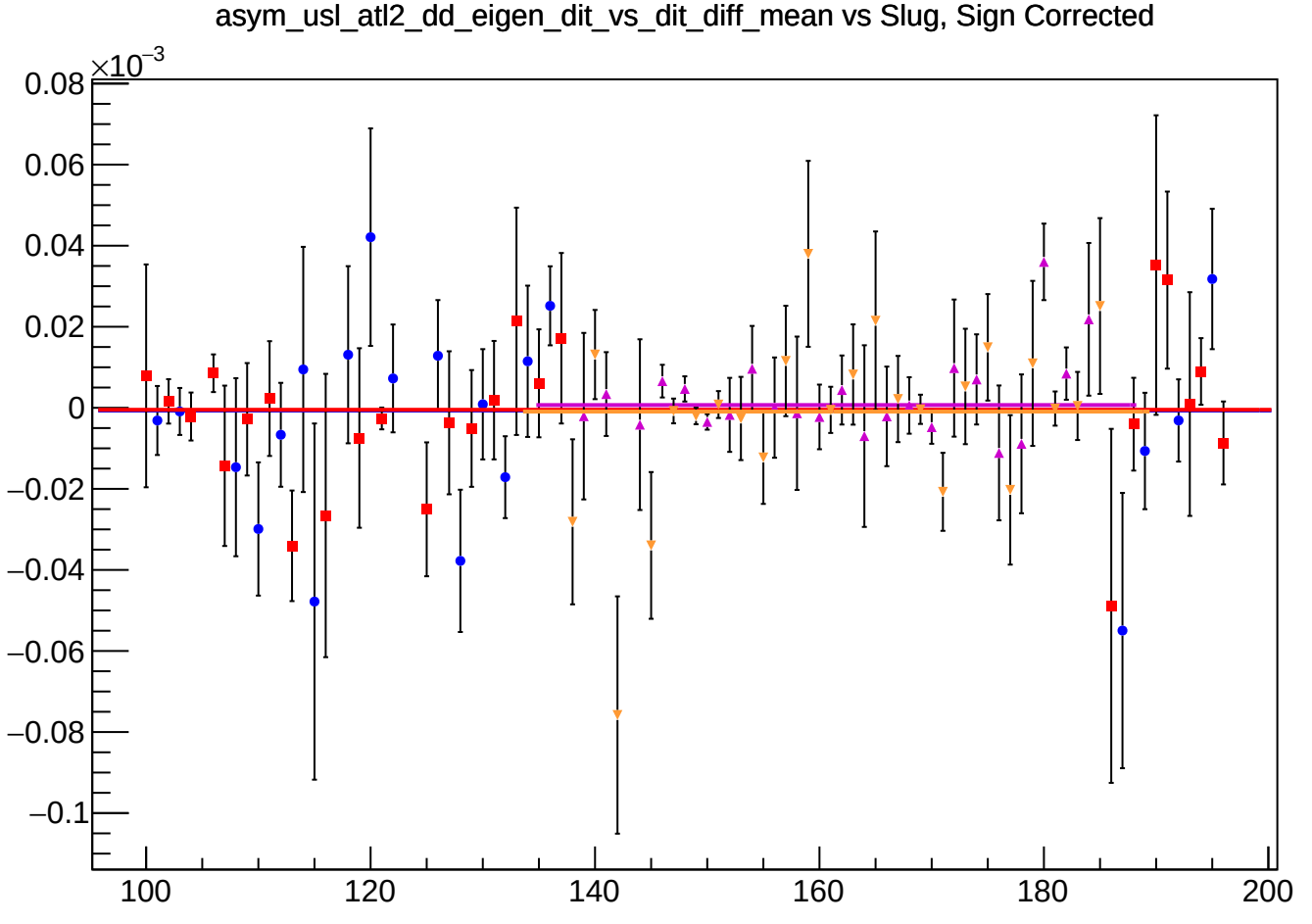
Left: 293.917+/-0.038 $\chi^2$/NDF: 10559224.0/46

Right: 101.663+/-0.017 $\chi^2$/NDF: 4083449.7/44

In: 147.346+/-0.024 $\chi^2$/NDF:15886832.8/42

Out: 124.073+/-0.020 $\chi^2$/NDF:19878797.9/48

All: 133.849+/-0.015 $\chi^2$/NDF: 36320865.3/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 30.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:29.1/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.3/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.8/22

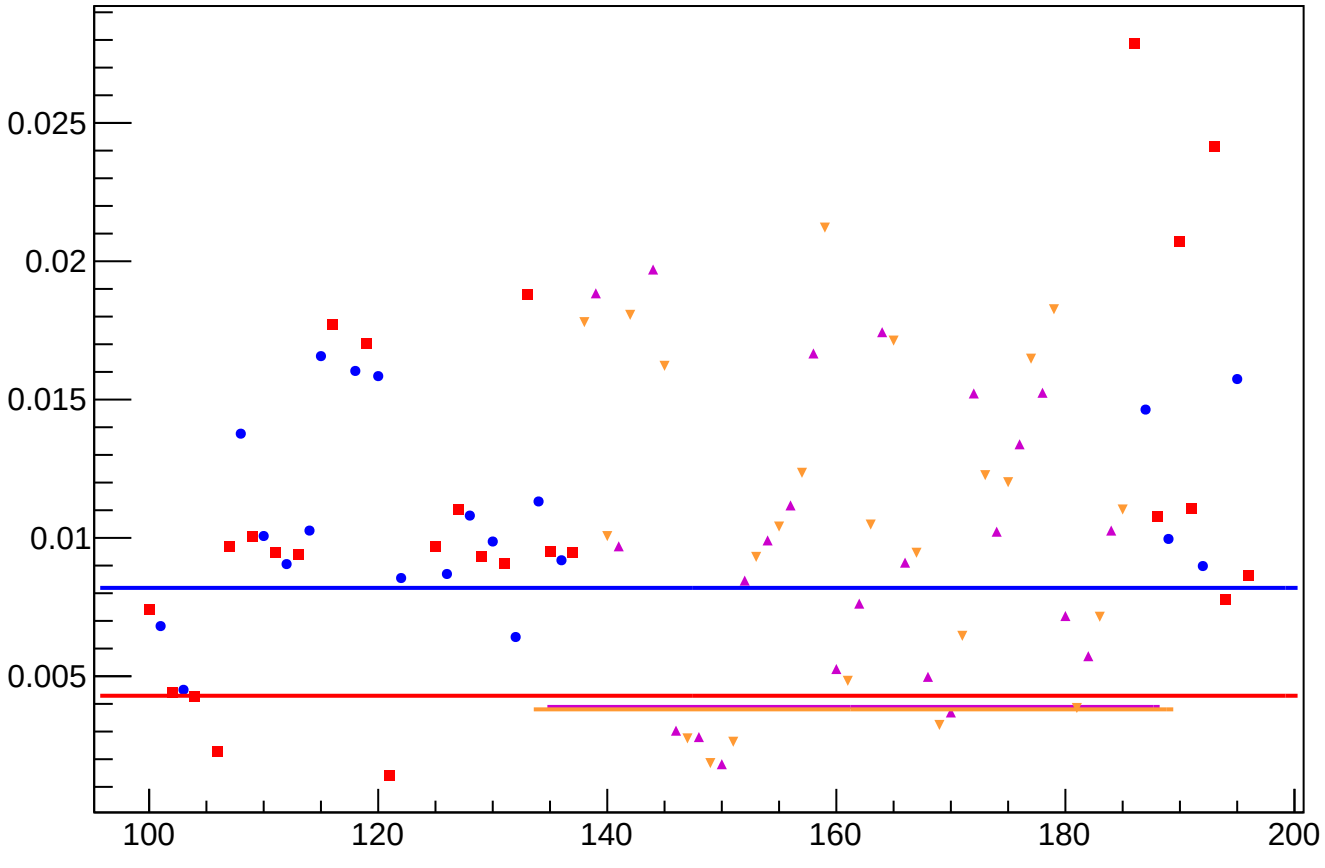
Left: -0.000+/-0.000 $\chi^2$/NDF: 59.8/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 52.9/44

In: 0.000+/-0.000 $\chi^2$/NDF:60.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:51.4/48

All: -0.000+/-0.000 $\chi^2$/NDF: 112.7/91




Right In: 0.008+/-0.000 $\chi^2$/NDF: 2238997.1/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:14624926.4/23

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 10215106.5/24

Left In: 0.004+/-0.000 $\chi^2$/NDF:13523554.3/22

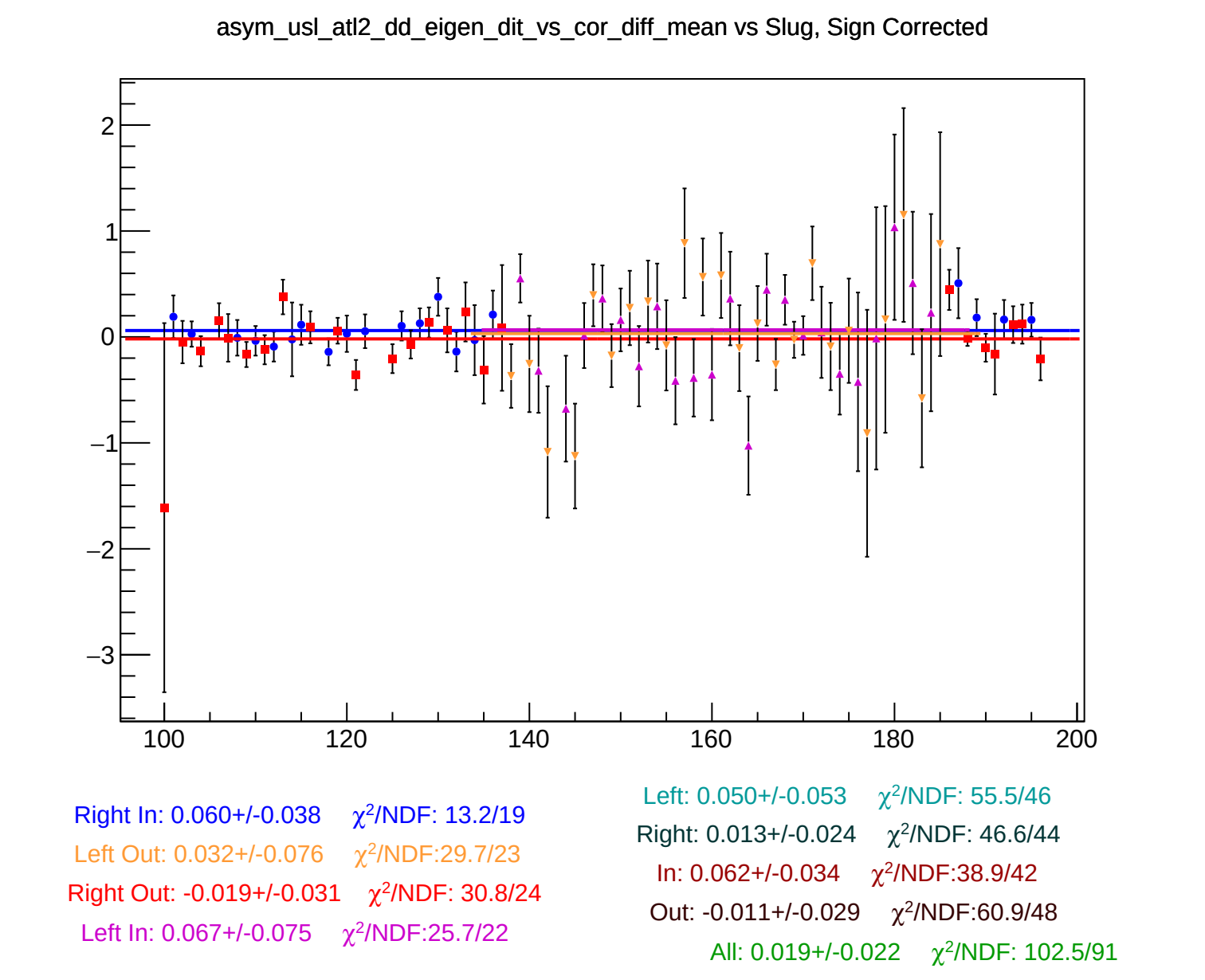
Left: 0.004+/-0.000 $\chi^2$/NDF: 28153751.6/46

Right: 0.005+/-0.000 $\chi^2$/NDF: 15166916.2/44

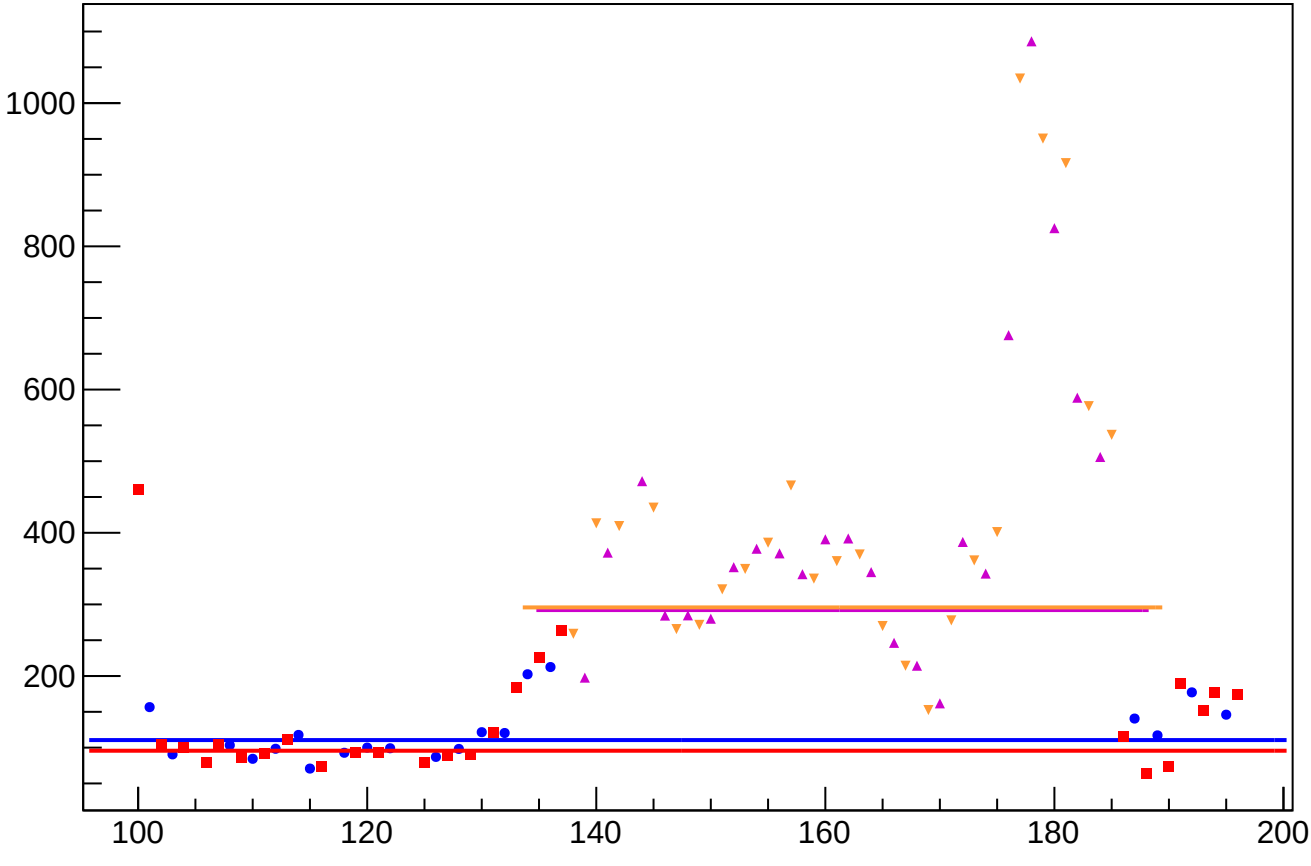
In: 0.005+/-0.000 $\chi^2$/NDF:19572147.9/42

Out: 0.004+/-0.000 $\chi^2$/NDF:24949007.2/48

All: 0.004+/-0.000 $\chi^2$/NDF: 44847937.5/91


asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: 0.060+/-0.038 χ²/NDF: 13.2/19
Left Out: 0.032+/-0.076 χ²/NDF:29.7/23
Right Out: -0.019+/-0.031 χ²/NDF: 30.8/24
Left In: 0.067+/-0.075 χ²/NDF:25.7/22
Left: 0.050+/-0.053 χ²/NDF: 55.5/46
Right: 0.013+/-0.024 χ²/NDF: 46.6/44
In: 0.062+/-0.034 χ²/NDF:38.9/42
Out: -0.011+/-0.029 χ²/NDF:60.9/48
All: 0.019+/-0.022 χ²/NDF: 102.5/91

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 110.554+/-0.027 $\chi^2$/NDF: 1417147.2/19

Left Out: 295.800+/-0.054 $\chi^2$/NDF:5501139.3/23

Right Out: 95.678+/-0.022 $\chi^2$/NDF: 2479944.4/24

Left In: 292.103+/-0.053 $\chi^2$/NDF:5055695.7/22

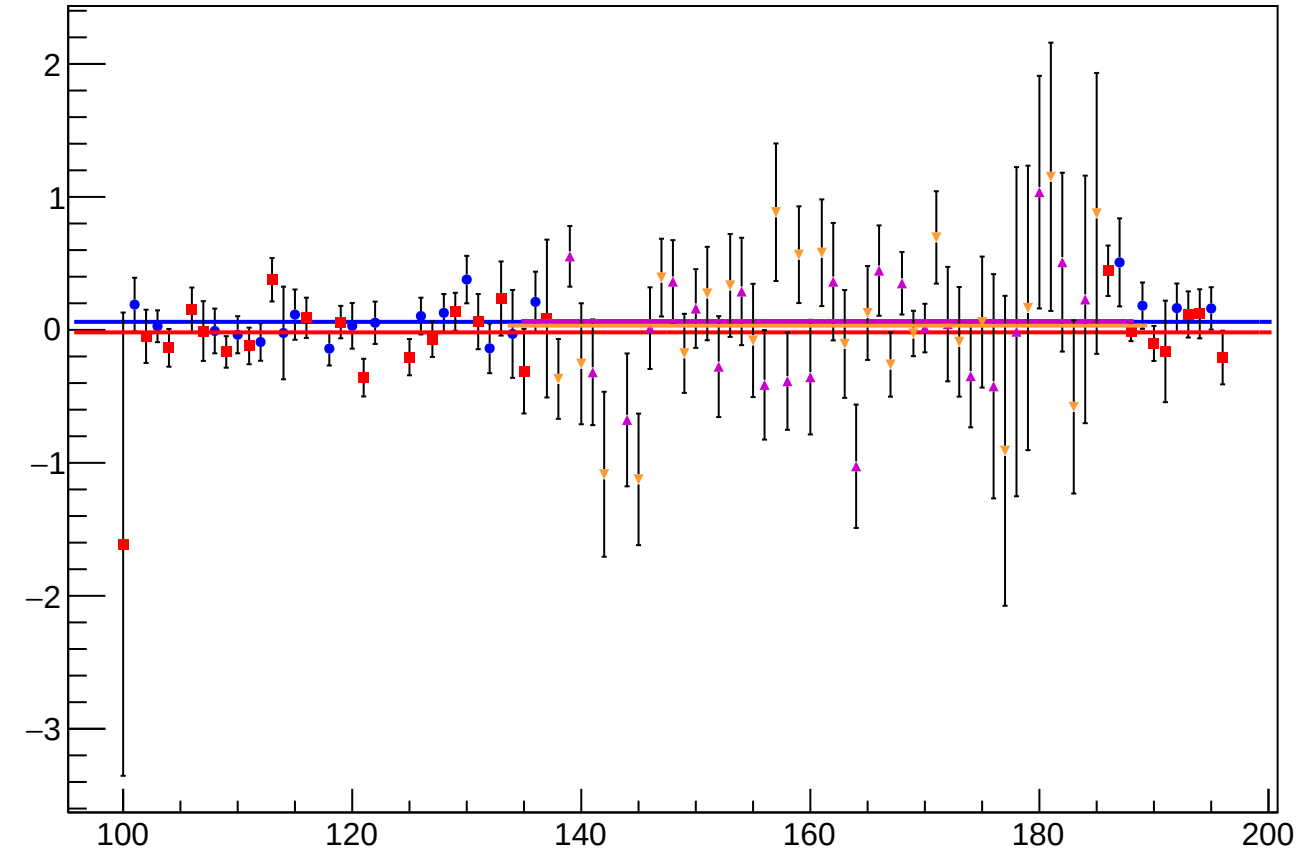
Left: 293.920+/-0.038 $\chi^2$/NDF: 10559241.5/46

Right: 101.662+/-0.017 $\chi^2$/NDF: 4083510.9/44

In: 147.347+/-0.024 $\chi^2$/NDF:15886843.2/42

Out: 124.071+/-0.020 $\chi^2$/NDF:19879232.6/48

All: 133.848+/-0.015 $\chi^2$/NDF: 36321430.6/91




Right In: 0.060+/-0.038 $\chi^2$/NDF: 13.2/19

Left Out: 0.032+/-0.076 $\chi^2$/NDF:29.7/23

Right Out: -0.019+/-0.031 $\chi^2$/NDF: 30.8/24

Left In: 0.067+/-0.075 $\chi^2$/NDF:25.7/22

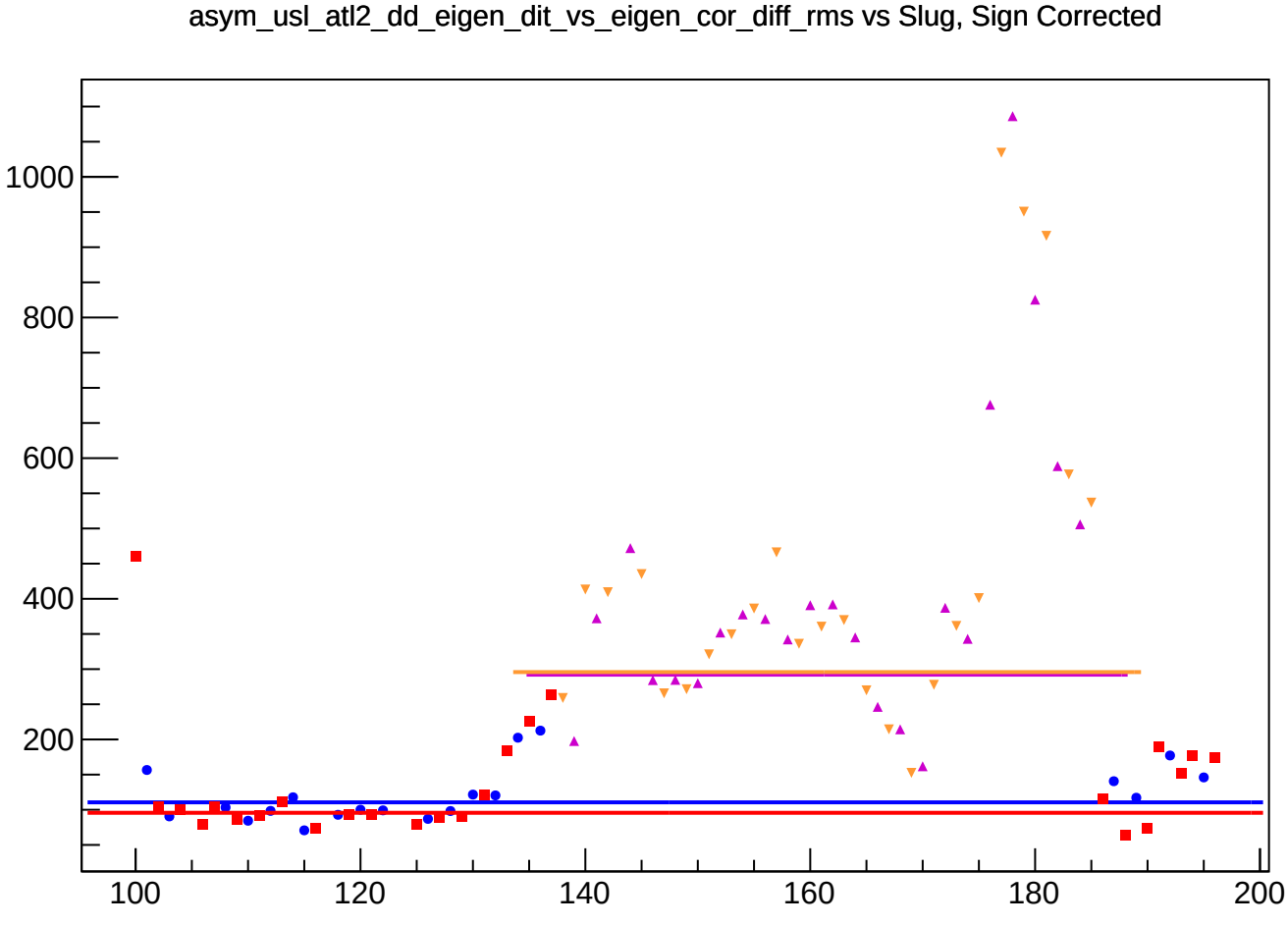
Left: 0.050+/-0.053 $\chi^2$/NDF: 55.5/46

Right: 0.013+/-0.024 $\chi^2$/NDF: 46.6/44

In: 0.062+/-0.034 $\chi^2$/NDF:38.9/42

Out: -0.011+/-0.029 $\chi^2$/NDF:60.9/48

All: 0.019+/-0.022 $\chi^2$/NDF: 102.5/91




Right In: 110.554+/-0.027 $\chi^2$/NDF: 1417147.2/19

Left Out: 295.800+/-0.054 $\chi^2$/NDF:5501139.3/23

Right Out: 95.678+/-0.022 $\chi^2$/NDF: 2479944.4/24

Left In: 292.103+/-0.053 $\chi^2$/NDF:5055695.7/22

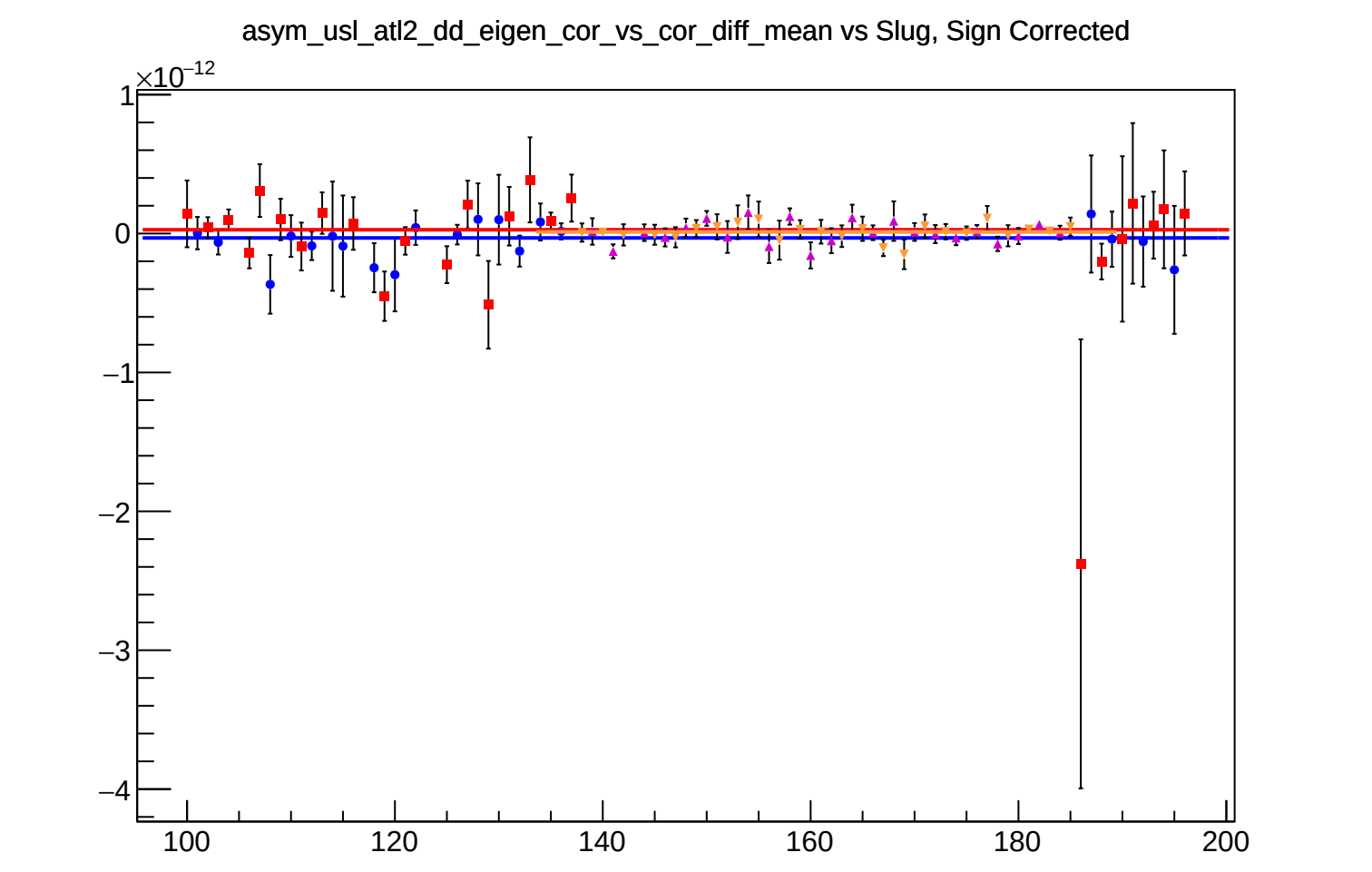
Left: 293.920+/-0.038 $\chi^2$/NDF: 10559241.5/46

Right: 101.662+/-0.017 $\chi^2$/NDF: 4083510.9/44

In: 147.347+/-0.024 $\chi^2$/NDF:15886843.2/42

Out: 124.071+/-0.020 $\chi^2$/NDF:19879232.6/48

All: 133.848+/-0.015 $\chi^2$/NDF: 36321430.6/91




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:10.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 33.0/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.9/22

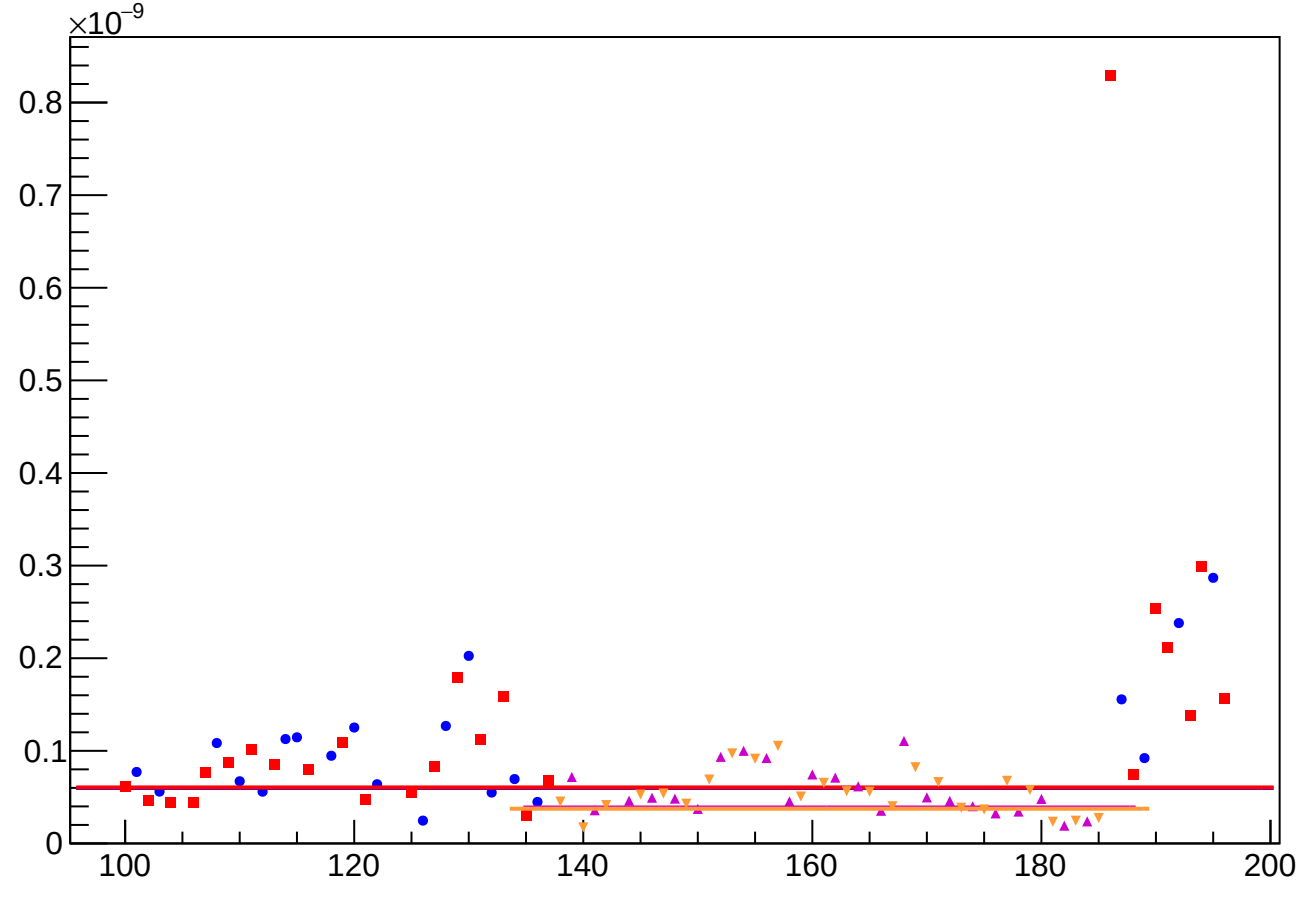
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.5/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 44.1/44

In: 0.000+/-0.000 $\chi^2$/NDF:42.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:43.8/48

All: 0.000+/-0.000 $\chi^2$/NDF: 86.1/91




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2853814.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4983727.4/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3689585.6/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:4577795.4/22

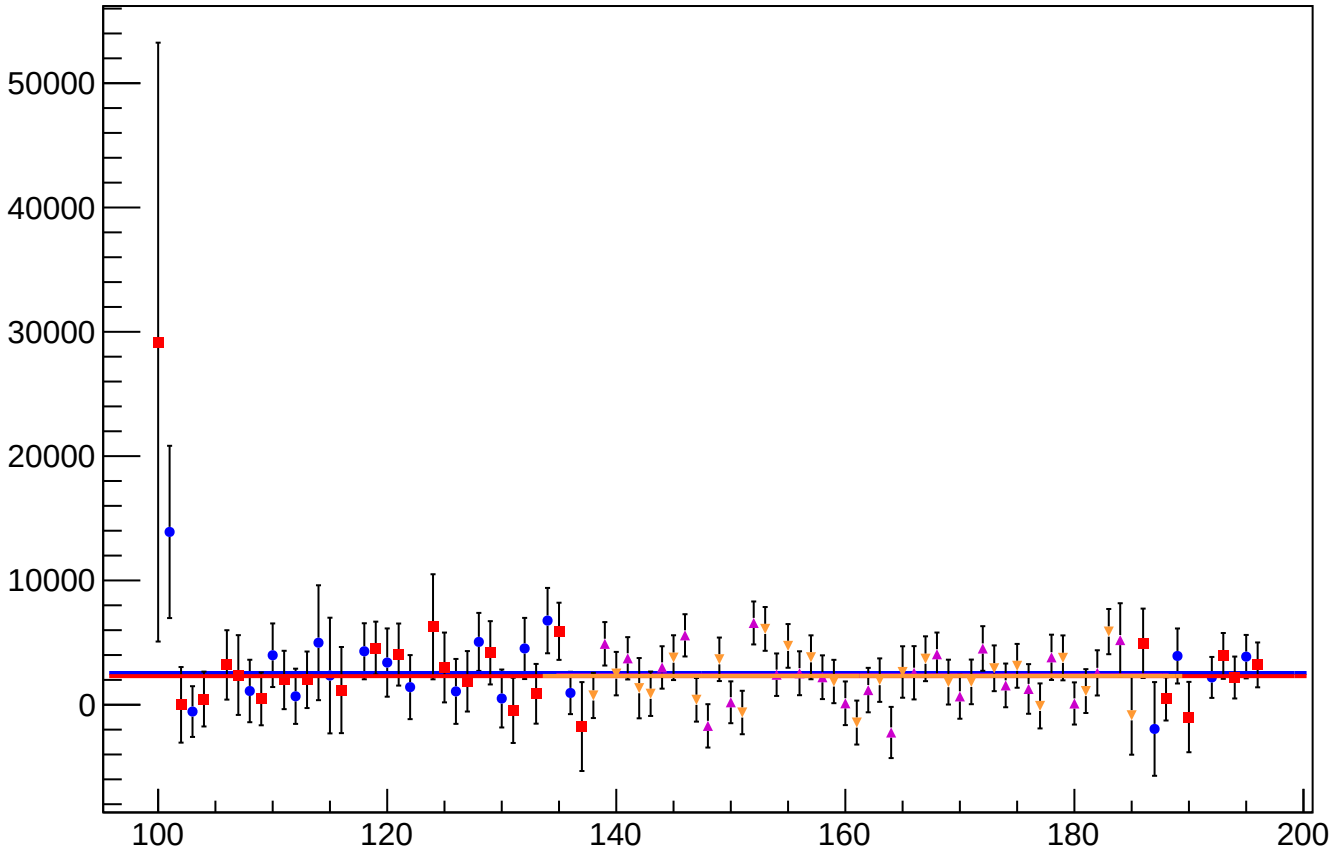
Left: 0.000+/-0.000 $\chi^2$/NDF: 9574010.5/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 6543751.5/44

In: 0.000+/-0.000 $\chi^2$/NDF:8331820.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9835225.9/48

All: 0.000+/-0.000 $\chi^2$/NDF: 18173015.2/91




Right In: 2554.468+/-535.414 $\chi^2$/NDF: 16.3/19

Left Out: 2321.067+/-366.301 $\chi^2$/NDF:27.5/24

Right Out: 2301.285+/-486.024 $\chi^2$/NDF: 16.2/24

Left In: 2370.629+/-376.798 $\chi^2$/NDF:33.7/22

Left: 2345.148+/-262.646 $\chi^2$/NDF: 61.2/47

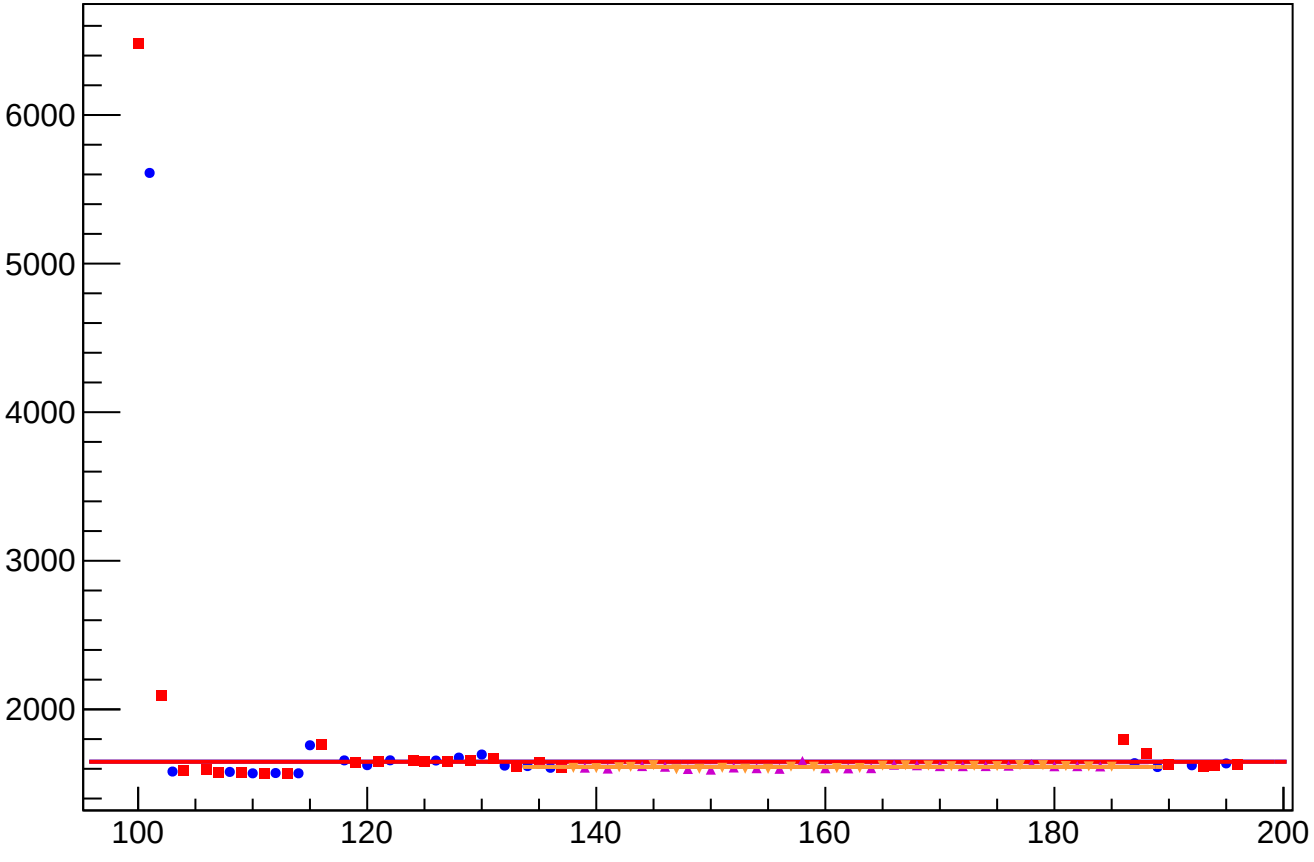
Right: 2415.663+/-359.868 $\chi^2$/NDF: 32.6/44

In: 2431.521+/-308.141 $\chi^2$/NDF:50.1/42

Out: 2313.901+/-292.525 $\chi^2$/NDF:43.7/49

All: 2369.655+/-212.152 $\chi^2$/NDF: 93.9/92

# reg_asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1648.304+/-0.379 $\chi^2$/NDF: 667671.6/19

Left Out: 1612.607+/-0.259 $\chi^2$/NDF:1172.5/24

Right Out: 1647.229+/-0.344 $\chi^2$/NDF: 145835.3/24

Left In: 1613.793+/-0.266 $\chi^2$/NDF:2354.6/22

Left: 1613.183+/-0.186 $\chi^2$/NDF: 3537.3/47

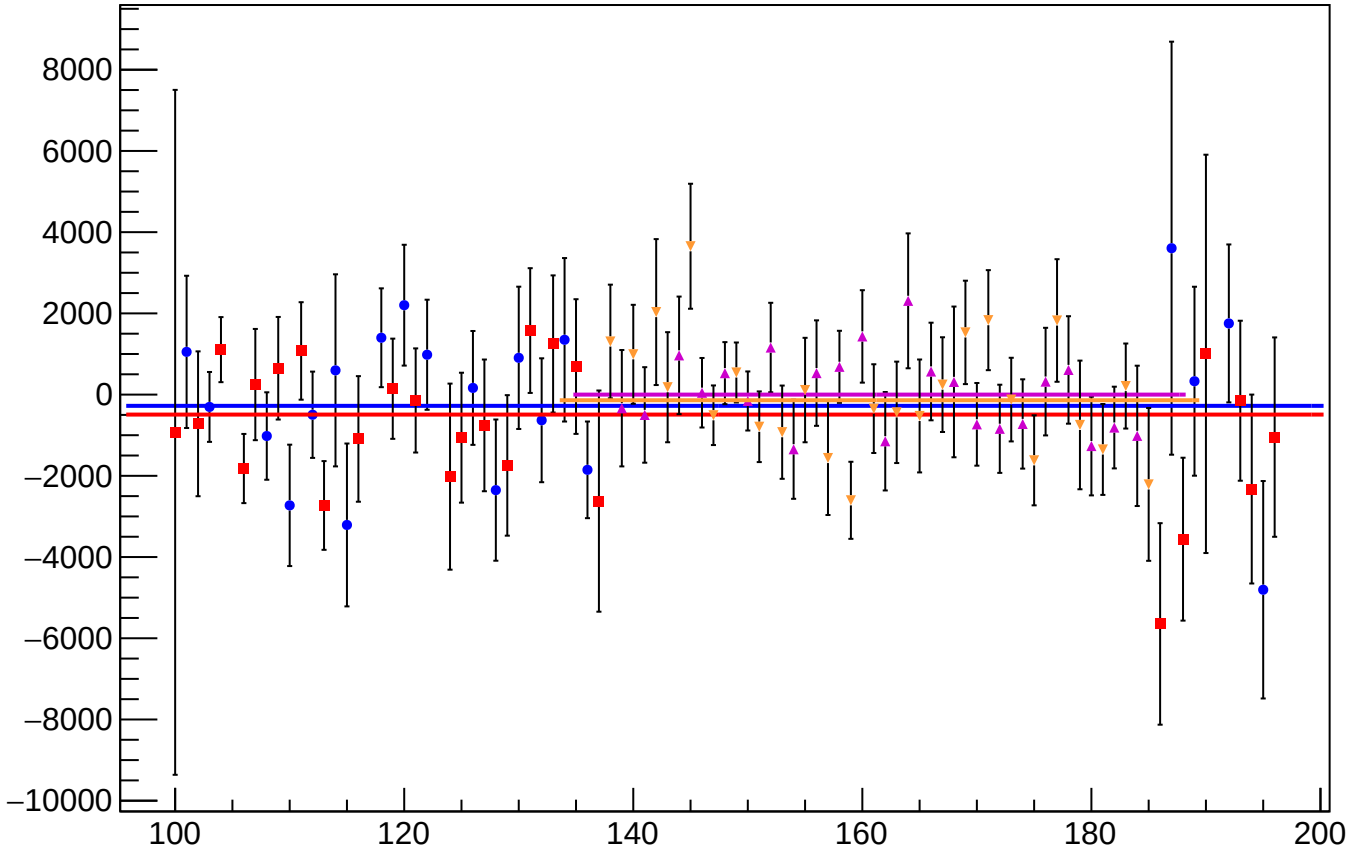
Right: 1647.714+/-0.254 $\chi^2$/NDF: 813511.3/44

In: 1625.224+/-0.218 $\chi^2$/NDF:675583.1/42

Out: 1625.149+/-0.207 $\chi^2$/NDF:153480.0/49

All: 1625.184+/-0.150 $\chi^2$/NDF: 829063.2/92

asym_usr_atr1_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -276.738+/-331.393 $\chi^2$/NDF: 20.6/19

Left Out: -139.022+/-229.126 $\chi^2$/NDF:30.2/24

Right Out: -491.928+/-297.878 $\chi^2$/NDF: 26.5/24

Left In: -0.092+/-231.903 $\chi^2$/NDF:12.9/22

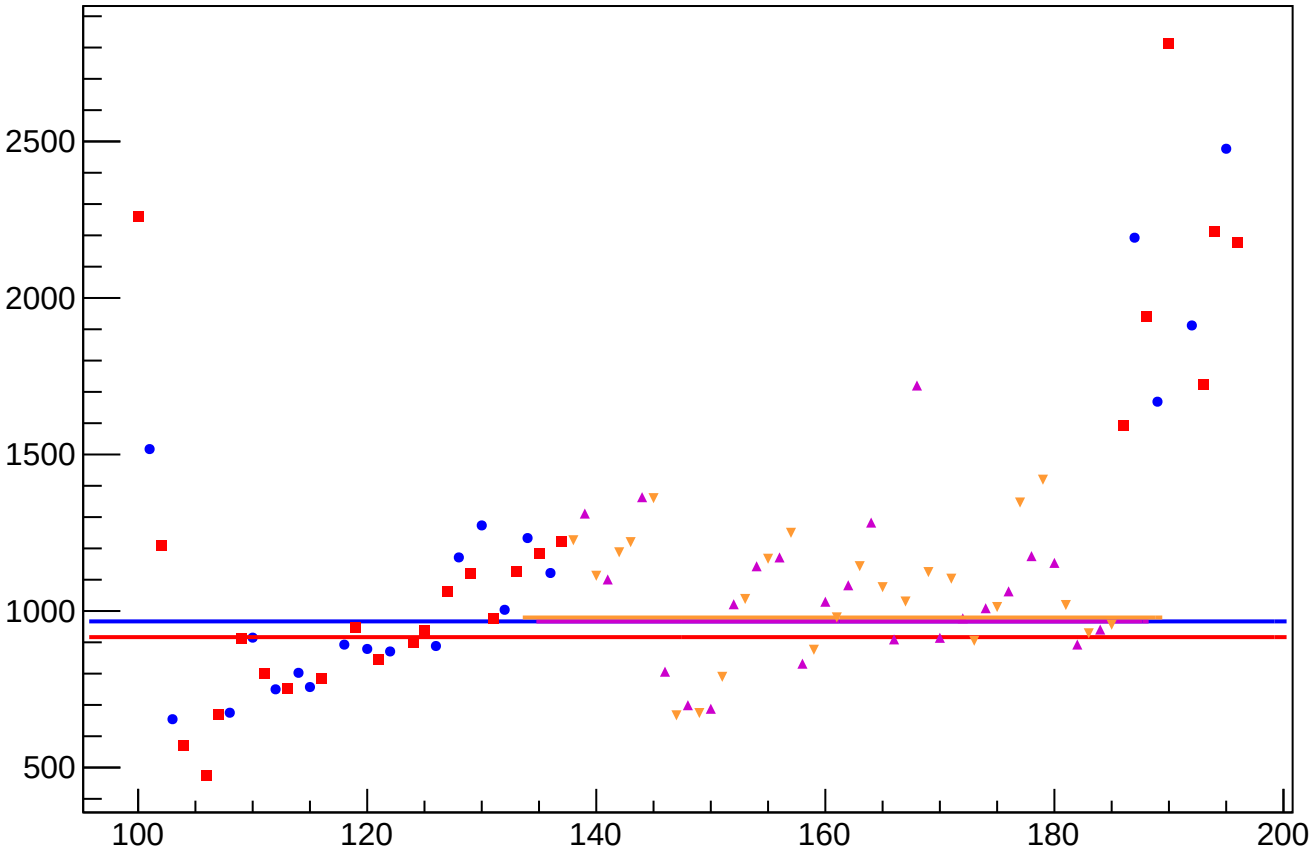
Left: -70.394+/-162.990 $\chi^2$/NDF: 43.2/47

Right: -395.761+/-221.536 $\chi^2$/NDF: 47.3/44

In: -91.032+/-190.002 $\chi^2$/NDF:33.9/42

Out: -270.206+/-181.614 $\chi^2$/NDF:57.5/49

All: -184.661+/-131.286 $\chi^2$/NDF: 91.9/92




Right In: 966.855+/-0.234 $\chi^2$/NDF: 2296886.4/19

Left Out: 979.294+/-0.162 $\chi^2$/NDF:1630623.2/24

Right Out: 916.597+/-0.211 $\chi^2$/NDF: 3775494.8/24

Left In: 966.526+/-0.164 $\chi^2$/NDF:1602596.2/22

Left: 972.987+/-0.115 $\chi^2$/NDF: 3236287.4/47

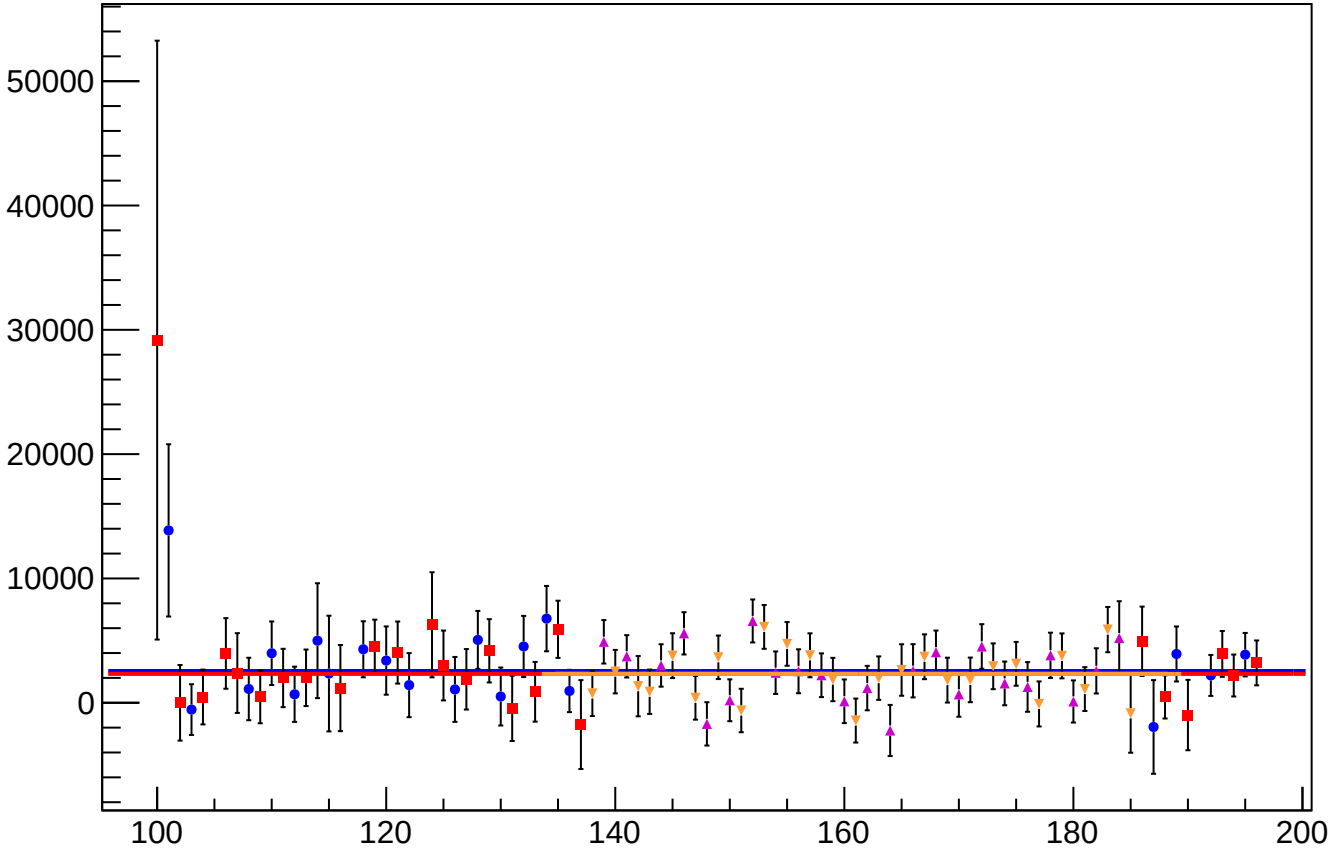
Right: 939.057+/-0.157 $\chi^2$/NDF: 6097823.6/44

In: 966.634+/-0.134 $\chi^2$/NDF:3899484.0/42

Out: 955.988+/-0.128 $\chi^2$/NDF:5461785.3/49

All: 961.071+/-0.093 $\chi^2$/NDF: 9364550.3/92

# cor_asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2554.098+/-535.414 $\chi^2$/NDF: 16.3/19

Left Out: 2321.025+/-366.301 $\chi^2$/NDF:27.5/24

Right Out: 2322.877+/-486.277 $\chi^2$/NDF: 16.5/24

Left In: 2370.700+/-376.798 $\chi^2$/NDF:33.7/22

Left: 2345.161+/-262.646 $\chi^2$/NDF: 61.2/47

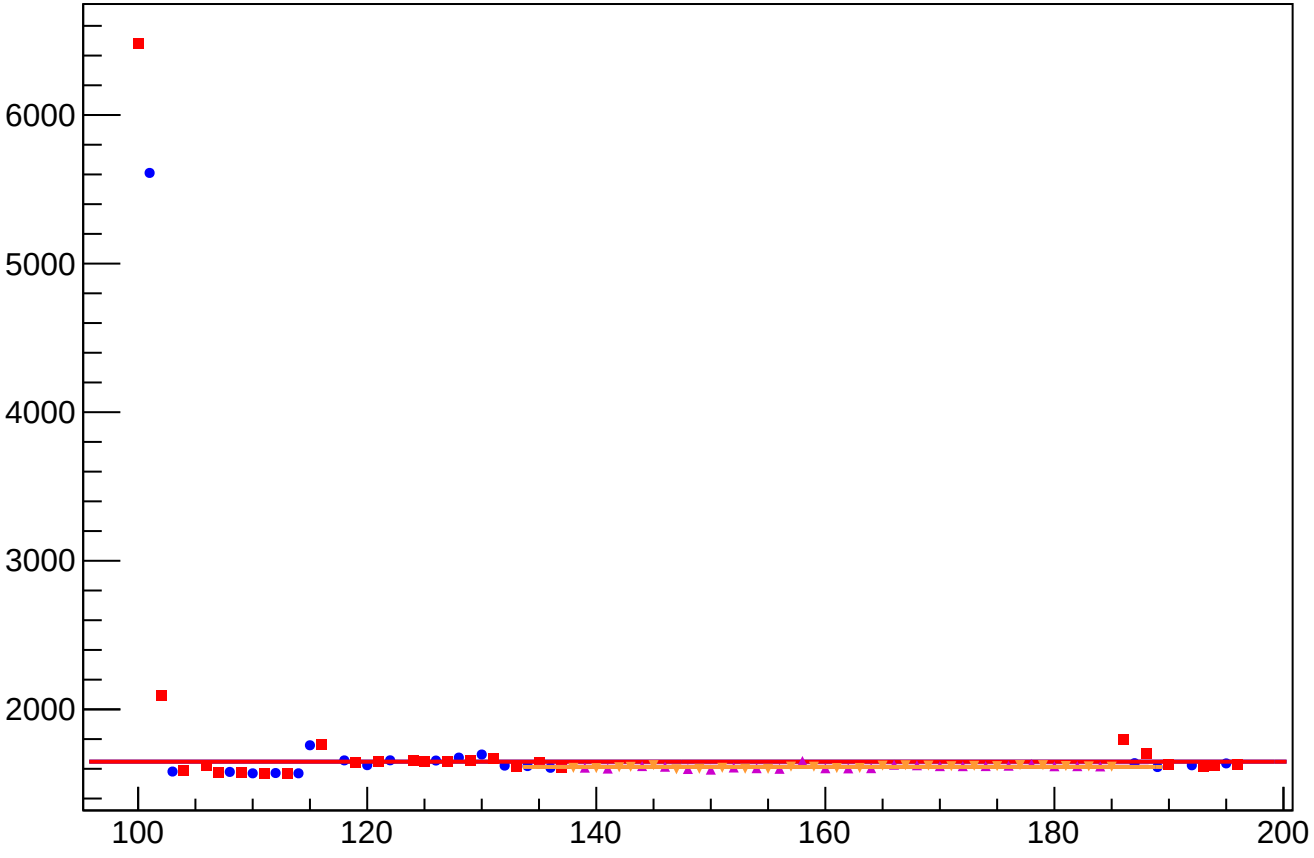
Right: 2427.393+/-359.971 $\chi^2$/NDF: 32.8/44

In: 2431.445+/-308.141 $\chi^2$/NDF:50.1/42

Out: 2321.695+/-292.580 $\chi^2$/NDF:44.0/49

All: 2373.729+/-212.173 $\chi^2$/NDF: 94.1/92

# cor_asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 1648.304+/-0.379 $\chi^2$/NDF: 667671.1/19

Left Out: 1612.607+/-0.259 $\chi^2$/NDF:1172.5/24

Right Out: 1648.061+/-0.344 $\chi^2$/NDF: 145270.5/24

Left In: 1613.793+/-0.266 $\chi^2$/NDF:2354.6/22

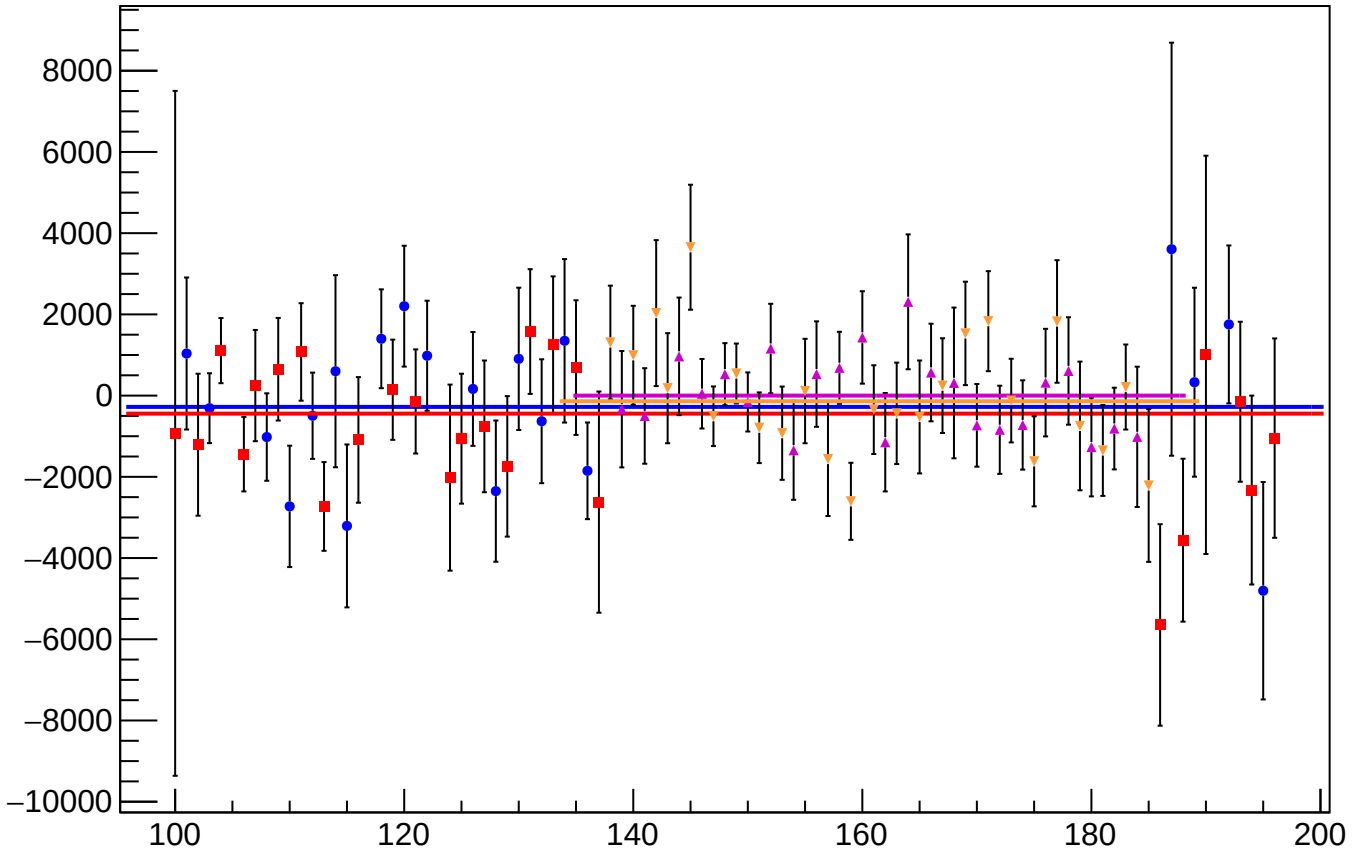
Left: 1613.184+/-0.186 $\chi^2$/NDF: 3537.3/47

Right: 1648.171+/-0.255 $\chi^2$/NDF: 812941.8/44

In: 1625.224+/-0.218 $\chi^2$/NDF:675582.7/42

Out: 1625.442+/-0.207 $\chi^2$/NDF:153225.7/49

All: 1625.339+/-0.150 $\chi^2$/NDF: 828808.9/92




Right In: -277.987+/-331.352 $\chi^2$/NDF: 20.6/19

Left Out: -139.074+/-229.125 $\chi^2$/NDF:30.2/24

Right Out: -443.866+/-300.265 $\chi^2$/NDF: 25.3/24

Left In: -0.068+/-231.904 $\chi^2$/NDF:12.9/22

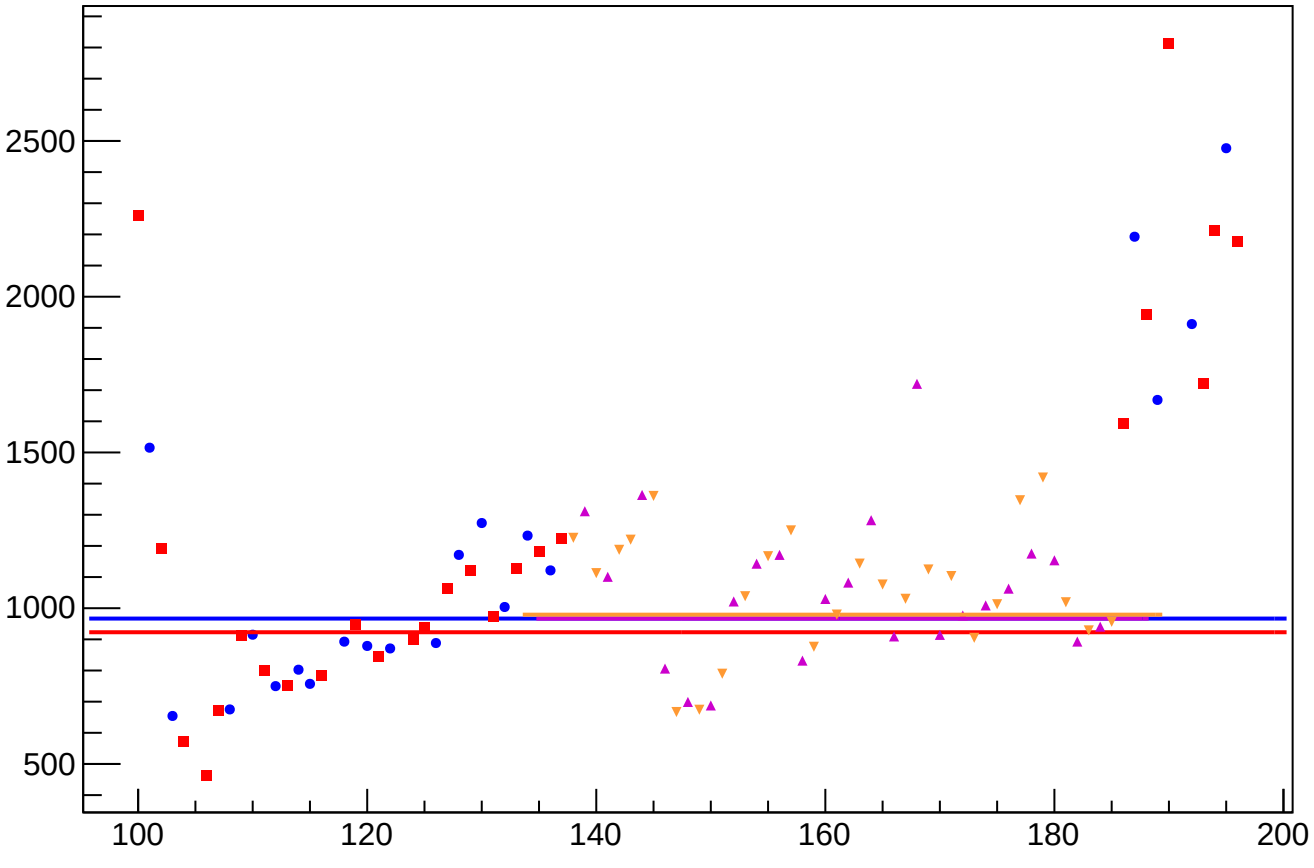
Left: -70.408+/-162.990 $\chi^2$/NDF: 43.2/47

Right: -369.071+/-222.500 $\chi^2$/NDF: 46.0/44

In: -91.442+/-189.995 $\chi^2$/NDF:33.9/42

Out: -251.238+/-182.151 $\chi^2$/NDF:56.1/49

All: -174.707+/-131.486 $\chi^2$/NDF: 90.3/92




Right In: 966.743+/-0.234 $\chi^2$/NDF: 2296944.3/19

Left Out: 979.288+/-0.162 $\chi^2$/NDF:1630731.2/24

Right Out: 922.851+/-0.212 $\chi^2$/NDF: 3718507.8/24

Left In: 966.531+/-0.164 $\chi^2$/NDF:1602562.1/22

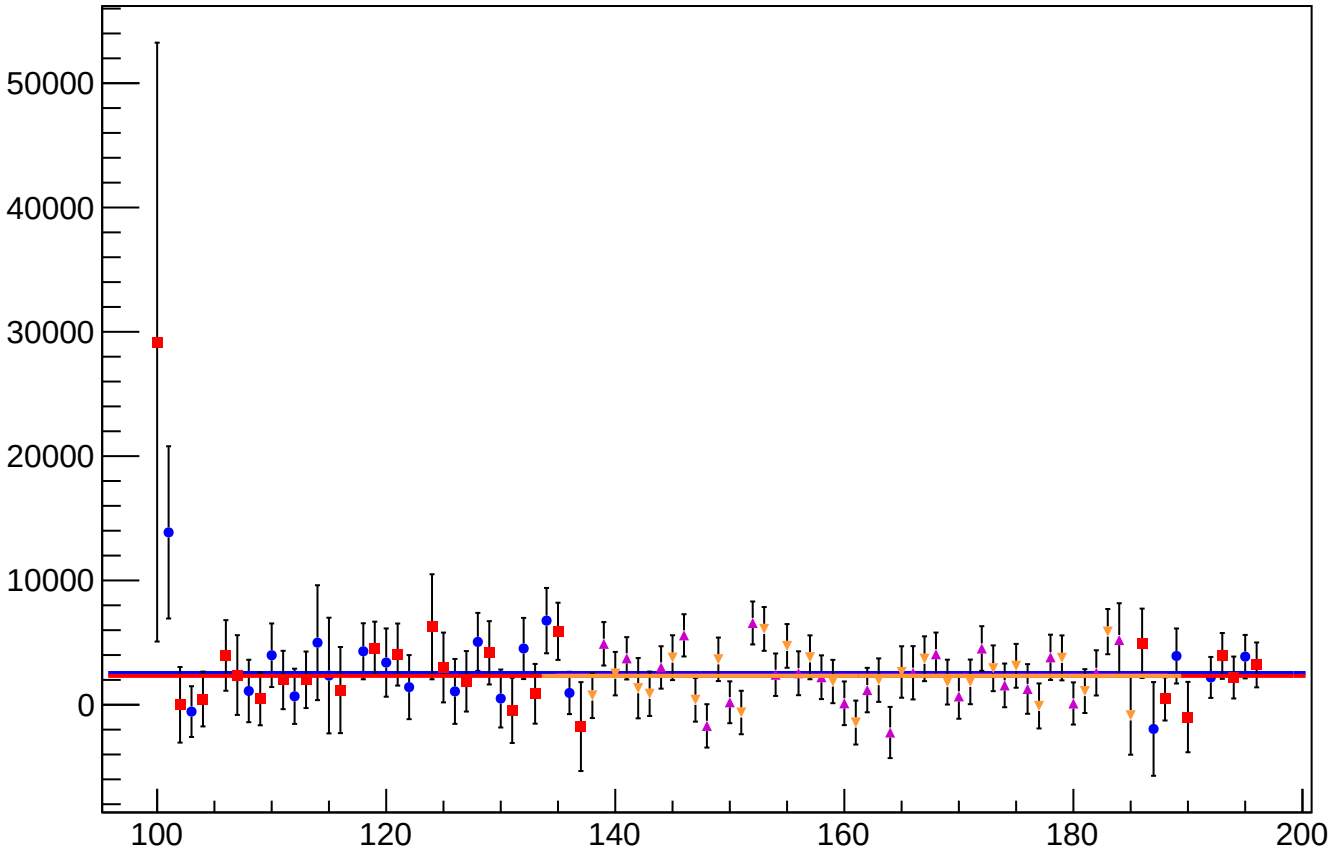
Left: 972.987+/-0.115 $\chi^2$/NDF: 3236355.9/47

Right: 942.642+/-0.157 $\chi^2$/NDF: 6034721.2/44

In: 966.601+/-0.134 $\chi^2$/NDF:3899507.0/42

Out: 958.519+/-0.129 $\chi^2$/NDF:5393893.1/49

All: 962.390+/-0.093 $\chi^2$/NDF: 9295285.6/92




Right In: 2554.098+/-535.414 $\chi^2$/NDF: 16.3/19

Left Out: 2321.025+/-366.301 $\chi^2$/NDF:27.5/24

Right Out: 2322.877+/-486.277 $\chi^2$/NDF: 16.5/24

Left In: 2370.700+/-376.798 $\chi^2$/NDF:33.7/22

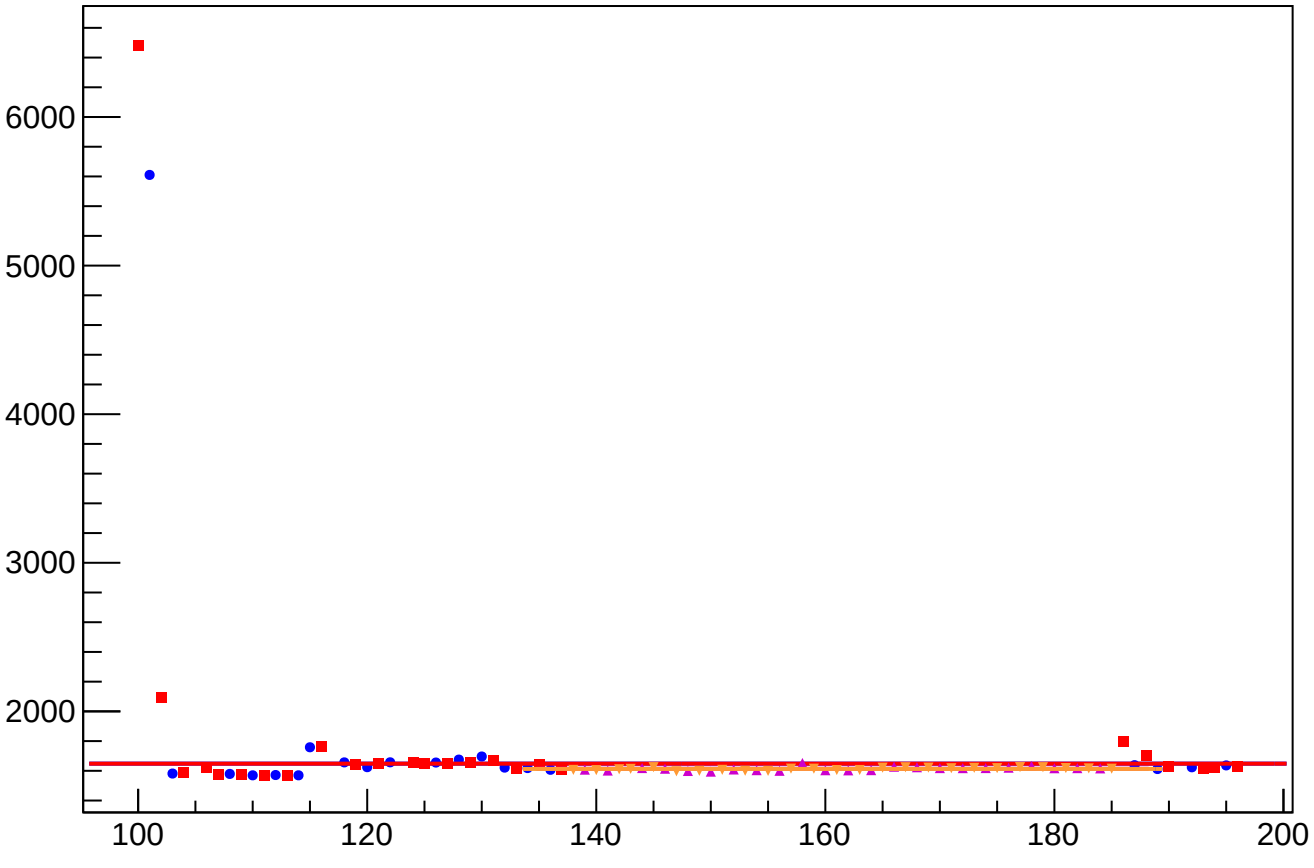
Left: 2345.161+/-262.646 $\chi^2$/NDF: 61.2/47

Right: 2427.393+/-359.971 $\chi^2$/NDF: 32.8/44

In: 2431.445+/-308.141 $\chi^2$/NDF:50.1/42

Out: 2321.695+/-292.580 $\chi^2$/NDF:44.0/49

All: 2373.729+/-212.173 $\chi^2$/NDF: 94.1/92




Right In: 1648.304+/-0.379 $\chi^2$/NDF: 667671.1/19

Left Out: 1612.607+/-0.259 $\chi^2$/NDF:1172.5/24

Right Out: 1648.061+/-0.344 $\chi^2$/NDF: 145270.5/24

Left In: 1613.793+/-0.266 $\chi^2$/NDF:2354.6/22

Left: 1613.184+/-0.186 $\chi^2$/NDF: 3537.3/47

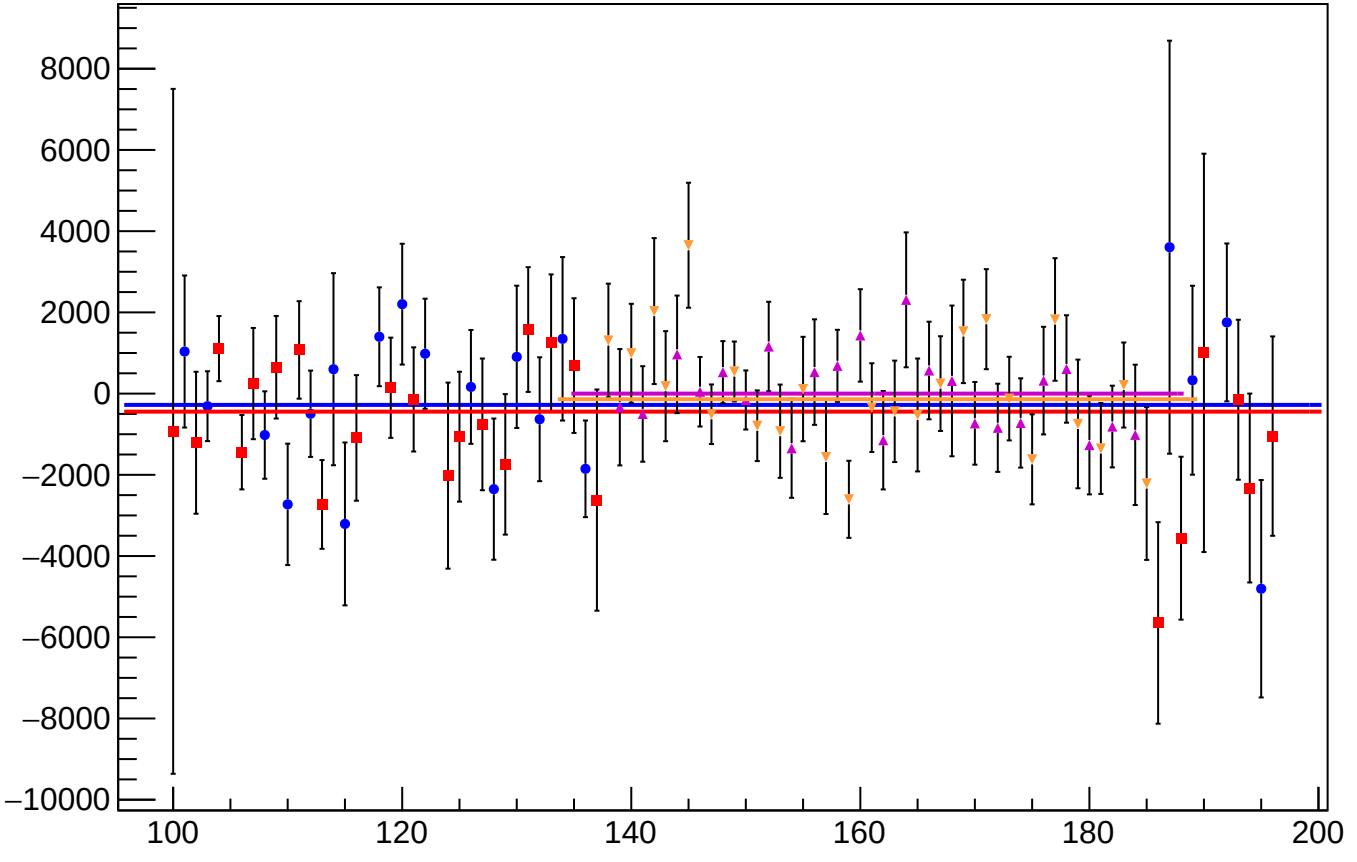
Right: 1648.171+/-0.255 $\chi^2$/NDF: 812941.8/44

In: 1625.224+/-0.218 $\chi^2$/NDF:675582.7/42

Out: 1625.442+/-0.207 $\chi^2$/NDF:153225.7/49

All: 1625.339+/-0.150 $\chi^2$/NDF: 828808.9/92

asym_usr_atr1_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -277.987+/-331.352 $\chi^2$/NDF: 20.6/19

Left Out: -139.074+/-229.125 $\chi^2$/NDF:30.2/24

Right Out: -443.866+/-300.265 $\chi^2$/NDF: 25.3/24

Left In: -0.068+/-231.904 $\chi^2$/NDF:12.9/22

Left: -70.408+/-162.990 $\chi^2$/NDF: 43.2/47

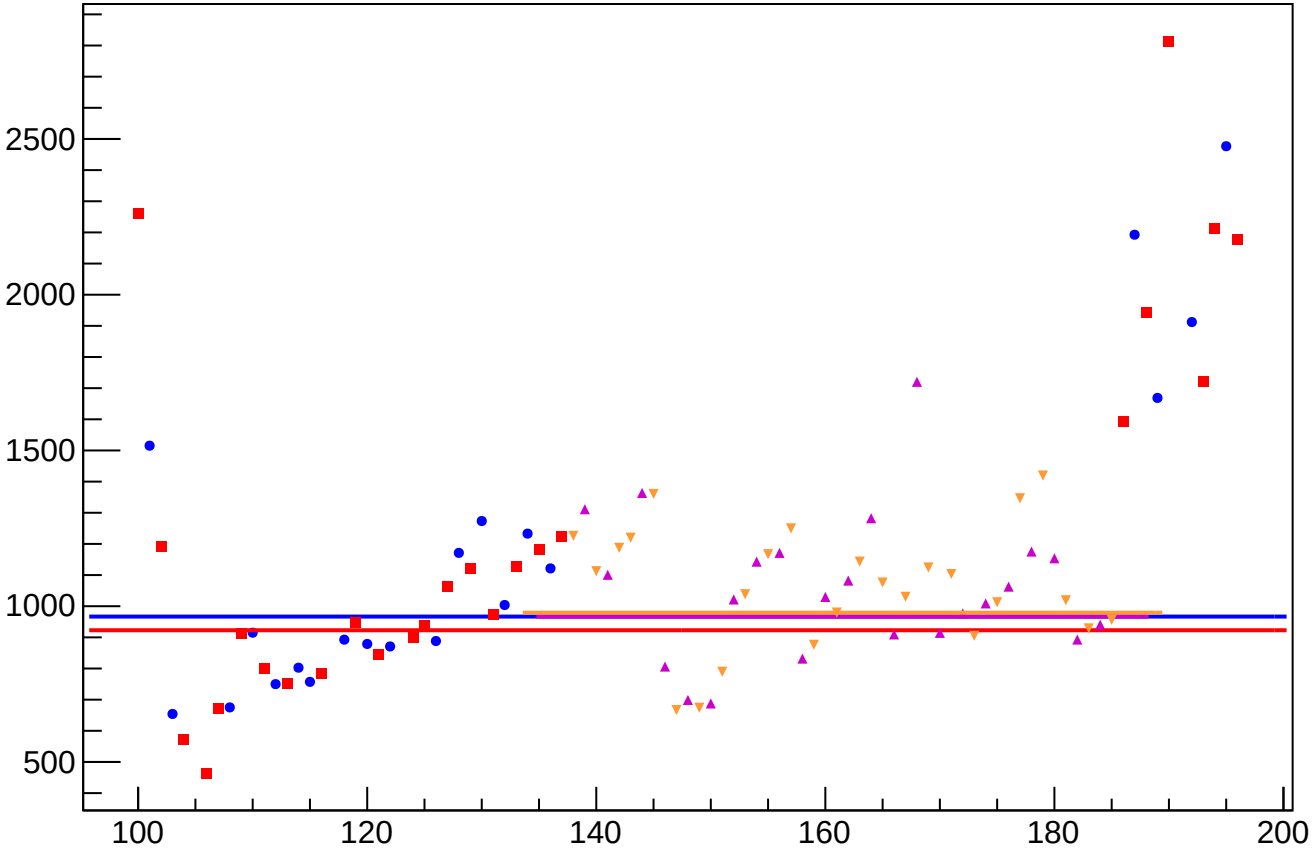
Right: -369.071+/-222.500 $\chi^2$/NDF: 46.0/44

In: -91.442+/-189.995 $\chi^2$/NDF:33.9/42

Out: -251.238+/-182.151 $\chi^2$/NDF:56.1/49

All: -174.707+/-131.486 $\chi^2$/NDF: 90.3/92

asym_usr_atr1_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 966.743+/-0.234 $\chi^2$/NDF: 2296944.3/19

Left Out: 979.288+/-0.162 $\chi^2$/NDF:1630731.2/24

Right Out: 922.851+/-0.212 $\chi^2$/NDF: 3718507.8/24

Left In: 966.531+/-0.164 $\chi^2$/NDF:1602562.1/22

Left: 972.987+/-0.115 $\chi^2$/NDF: 3236355.9/47

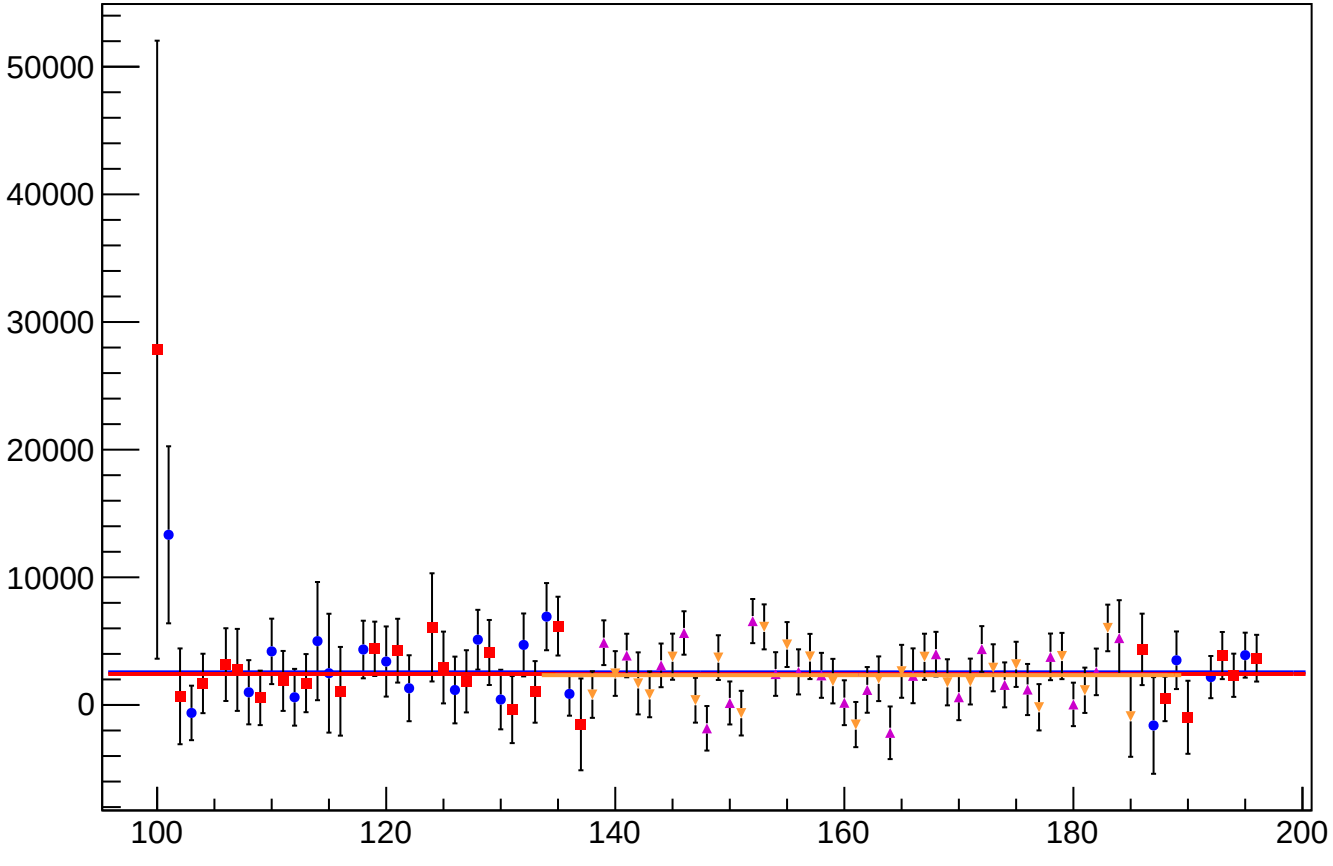
Right: 942.642+/-0.157 $\chi^2$/NDF: 6034721.2/44

In: 966.601+/-0.134 $\chi^2$/NDF:3899507.0/42

Out: 958.519+/-0.129 $\chi^2$/NDF:5393893.1/49

All: 962.390+/-0.093 $\chi^2$/NDF: 9295285.6/92

# dit_asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2553.634+/-538.909 $\chi^2$/NDF: 16.2/19

Left Out: 2334.840+/-366.991 $\chi^2$/NDF:28.3/24

Right Out: 2427.776+/-491.317 $\chi^2$/NDF: 14.8/24

Left In: 2360.289+/-377.400 $\chi^2$/NDF:34.0/22

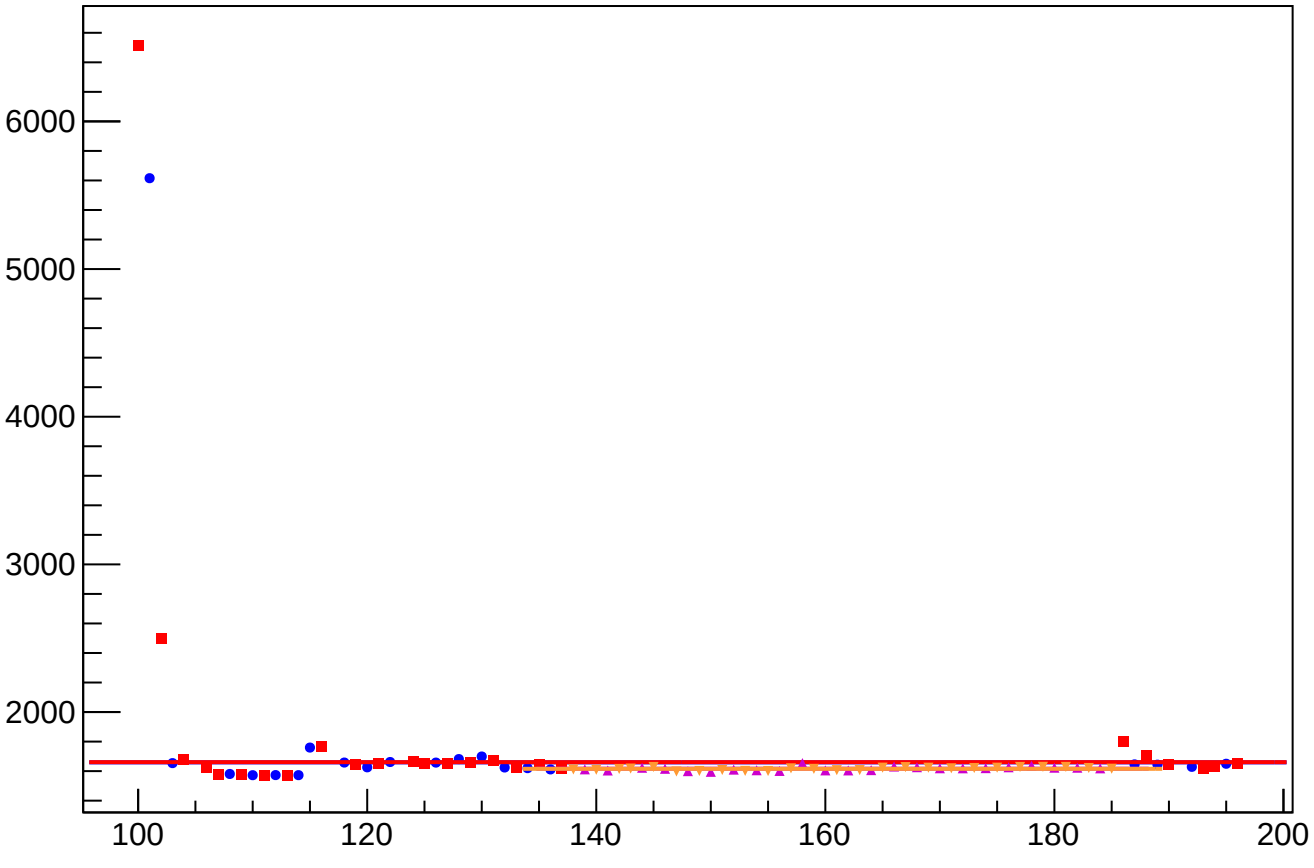
Left: 2347.209+/-263.105 $\chi^2$/NDF: 62.3/47

Right: 2484.903+/-363.075 $\chi^2$/NDF: 31.0/44

In: 2423.909+/-309.134 $\chi^2$/NDF:50.3/42

Out: 2368.123+/-294.022 $\chi^2$/NDF:43.1/49

All: 2394.619+/-213.047 $\chi^2$/NDF: 93.4/92




Right In: 1659.164+/-0.381 $\chi^2$/NDF: 664017.0/19

Left Out: 1615.633+/-0.260 $\chi^2$/NDF:1447.2/24

Right Out: 1660.705+/-0.347 $\chi^2$/NDF: 201481.1/24

Left In: 1616.361+/-0.267 $\chi^2$/NDF:2557.7/22

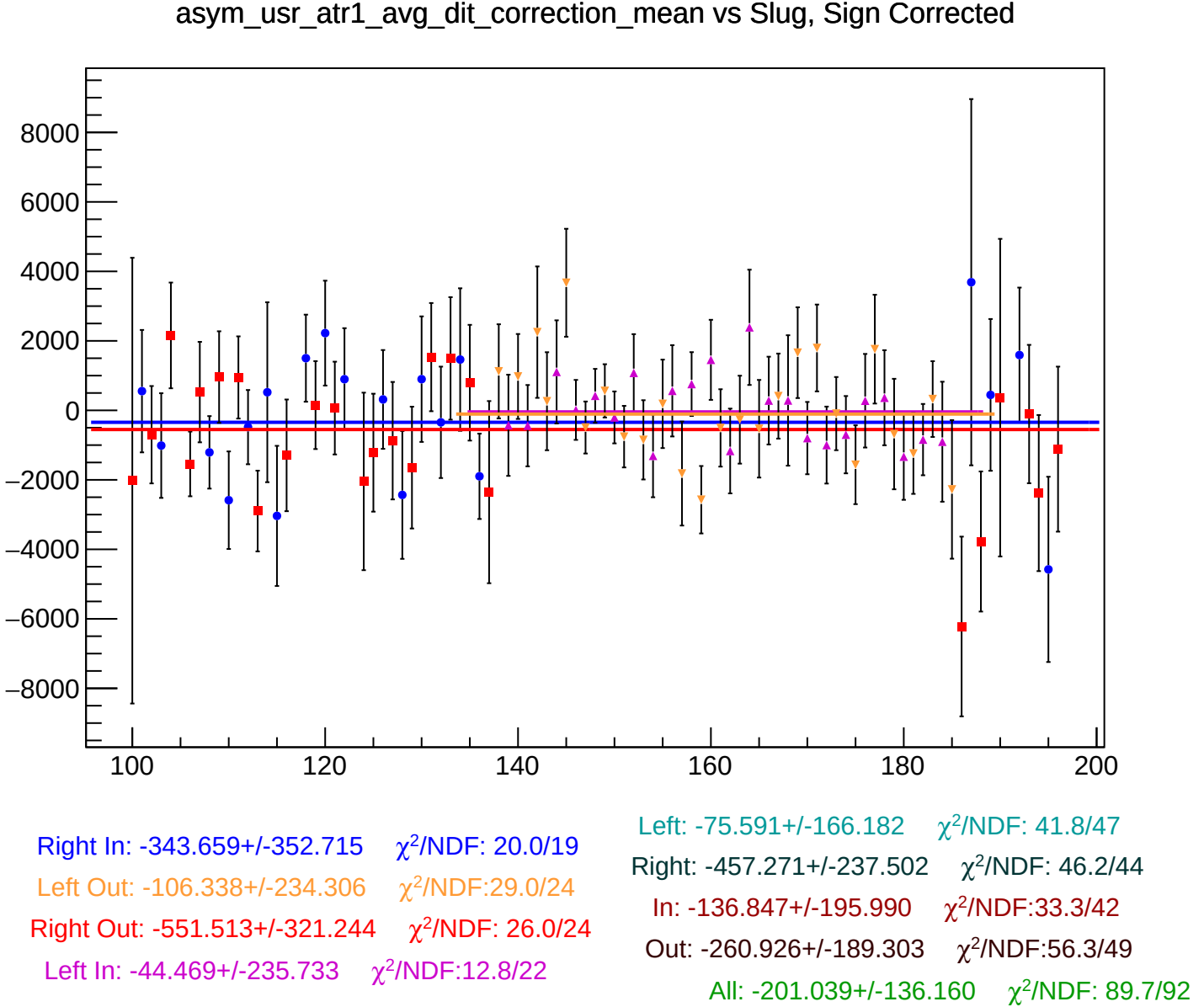
Left: 1615.987+/-0.186 $\chi^2$/NDF: 4008.7/47

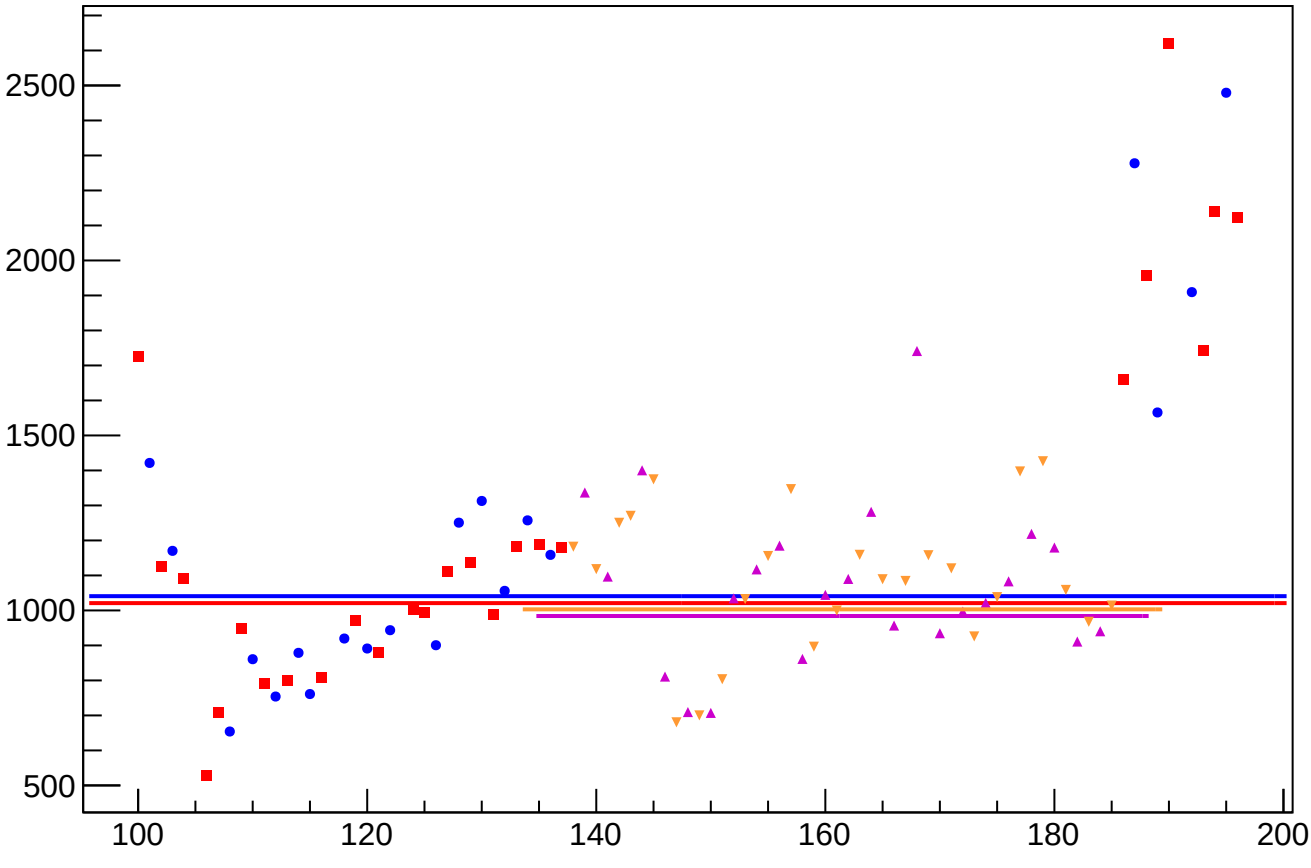
Right: 1660.006+/-0.257 $\chi^2$/NDF: 865507.0/44

In: 1630.445+/-0.219 $\chi^2$/NDF:675040.1/42

Out: 1631.775+/-0.208 $\chi^2$/NDF:213731.9/49

All: 1631.143+/-0.151 $\chi^2$/NDF: 888791.4/92


asym_usr_atr1_avg_dit_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
100
120
140
160
180
200
Right In: -343.659+/-352.715 χ²/NDF: 20.0/19
Left Out: -106.338+/-234.306 χ²/NDF:29.0/24
Right Out: -551.513+/-321.244 χ²/NDF: 26.0/24
Left In: -44.469+/-235.733 χ²/NDF:12.8/22
Left: -75.591+/-166.182 χ²/NDF: 41.8/47
Right: -457.271+/-237.502 χ²/NDF: 46.2/44
In: -136.847+/-195.990 χ²/NDF:33.3/42
Out: -260.926+/-189.303 χ²/NDF:56.3/49
All: -201.039+/-136.160 χ²/NDF: 89.7/92




Right In: 1040.770+/-0.249 $\chi^2$/NDF: 1993643.3/19

Left Out: 1003.101+/-0.166 $\chi^2$/NDF:1598415.6/24

Right Out: 1020.928+/-0.227 $\chi^2$/NDF: 2956507.0/24

Left In: 984.053+/-0.167 $\chi^2$/NDF:1559561.5/22

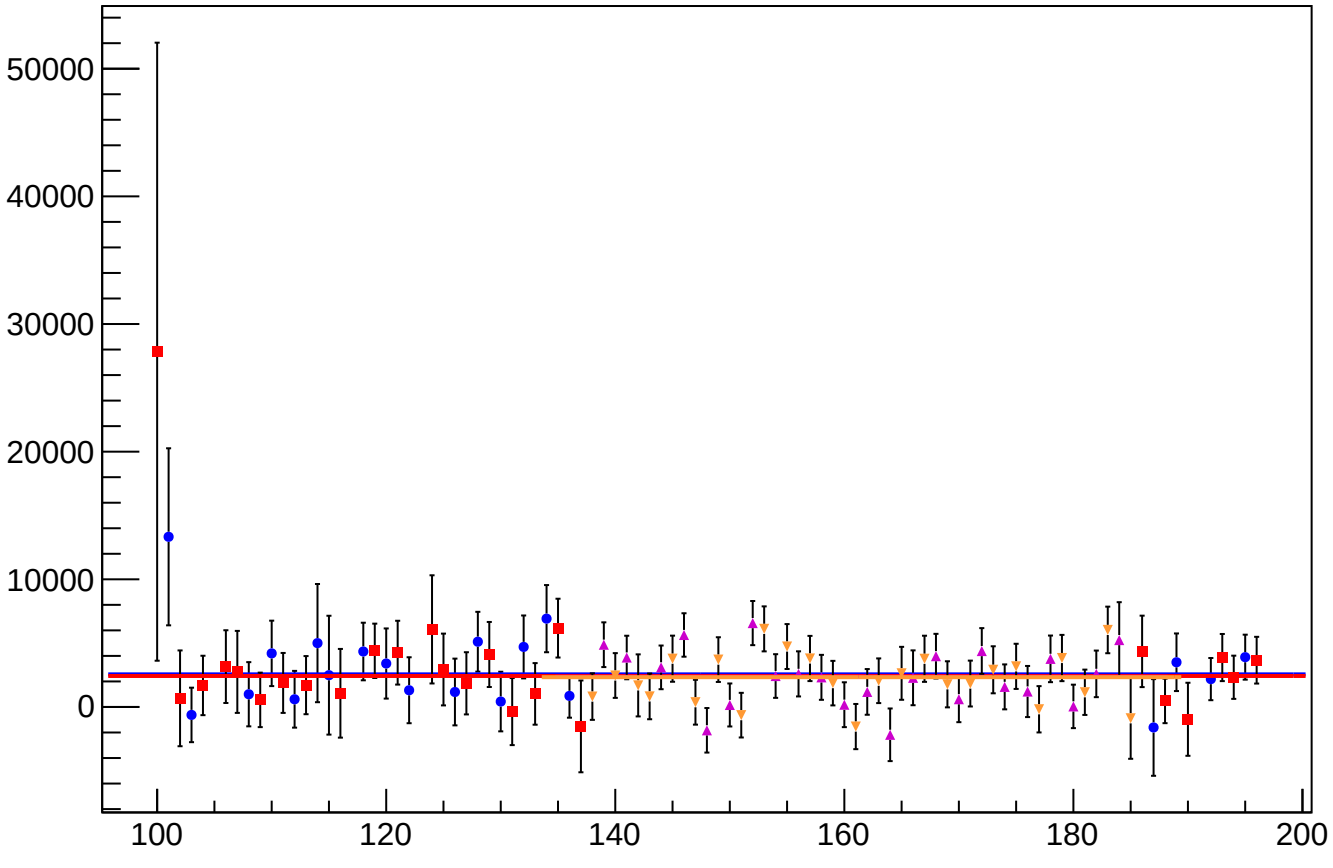
Left: 993.635+/-0.118 $\chi^2$/NDF: 3164545.6/47

Right: 1029.925+/-0.168 $\chi^2$/NDF: 4953609.6/44

In: 1001.565+/-0.139 $\chi^2$/NDF:3588950.6/42

Out: 1009.292+/-0.134 $\chi^2$/NDF:4558943.2/49

All: 1005.562+/-0.096 $\chi^2$/NDF: 8149501.9/92




Right In: 2553.633+/-538.909 $\chi^2$/NDF: 16.2/19

Left Out: 2334.839+/-366.991 $\chi^2$/NDF:28.3/24

Right Out: 2427.774+/-491.316 $\chi^2$/NDF: 14.8/24

Left In: 2360.289+/-377.400 $\chi^2$/NDF:34.0/22

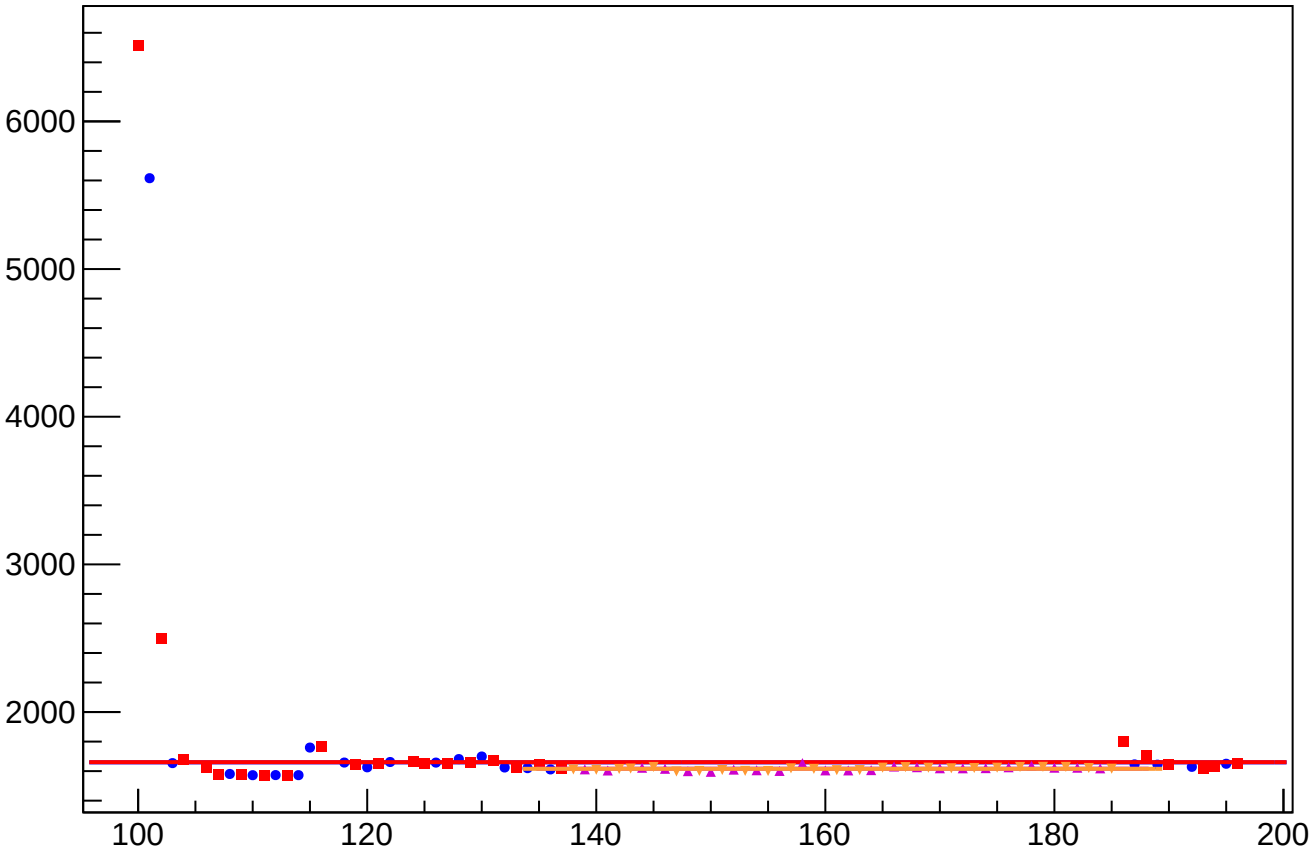
Left: 2347.208+/-263.105 $\chi^2$/NDF: 62.3/47

Right: 2484.901+/-363.075 $\chi^2$/NDF: 31.0/44

In: 2423.909+/-309.134 $\chi^2$/NDF:50.3/42

Out: 2368.122+/-294.022 $\chi^2$/NDF:43.1/49

All: 2394.618+/-213.047 $\chi^2$/NDF: 93.4/92




Right In: 1659.164+/-0.381 $\chi^2$/NDF: 664017.0/19

Left Out: 1615.633+/-0.260 $\chi^2$/NDF:1447.2/24

Right Out: 1660.705+/-0.347 $\chi^2$/NDF: 201481.0/24

Left In: 1616.361+/-0.267 $\chi^2$/NDF:2557.7/22

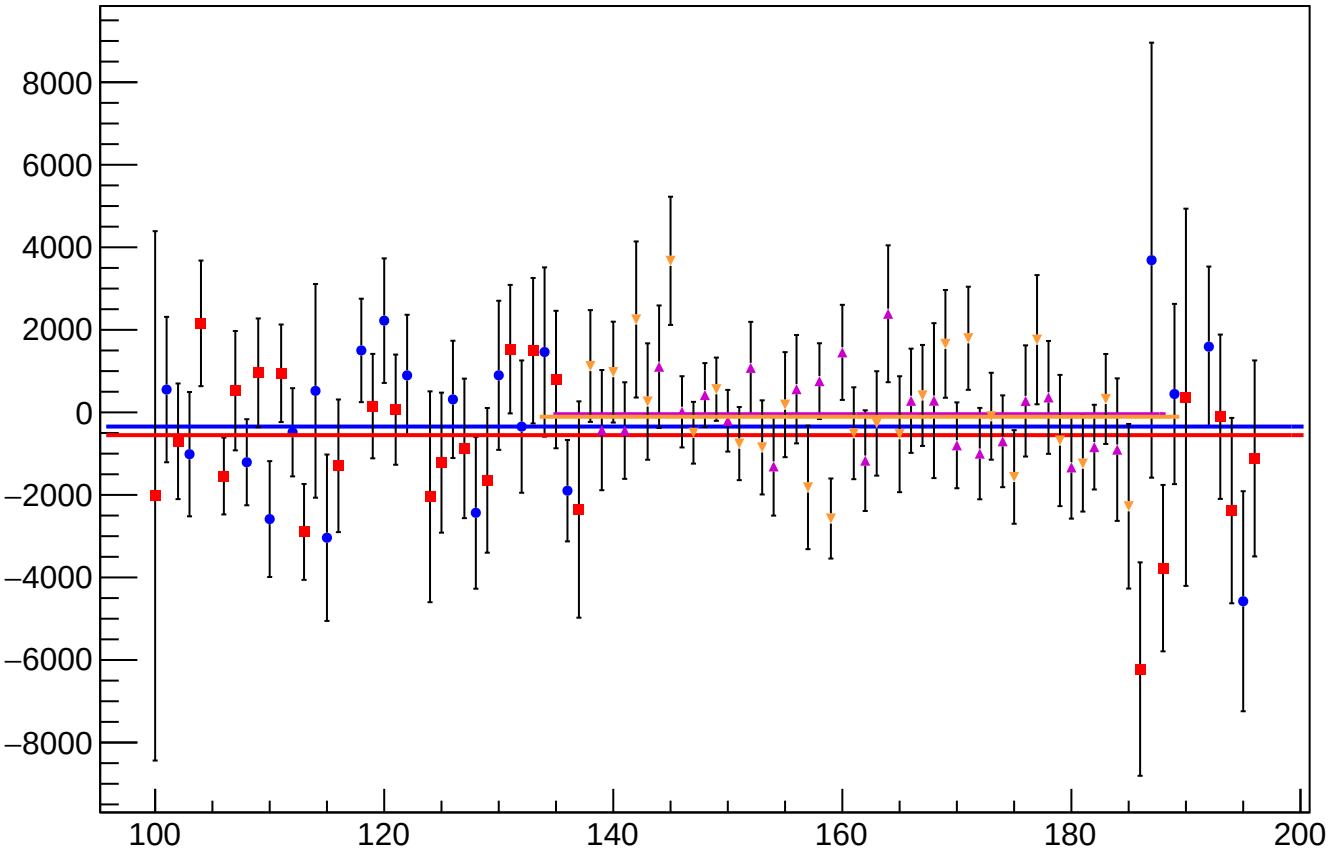
Left: 1615.987+/-0.186 $\chi^2$/NDF: 4008.7/47

Right: 1660.005+/-0.257 $\chi^2$/NDF: 865506.9/44

In: 1630.445+/-0.219 $\chi^2$/NDF:675040.1/42

Out: 1631.775+/-0.208 $\chi^2$/NDF:213731.7/49

All: 1631.143+/-0.151 $\chi^2$/NDF: 888791.1/92




Right In: -343.658+/-352.713 $\chi^2$/NDF: 20.0/19

Left Out: -106.340+/-234.307 $\chi^2$/NDF:29.0/24

Right Out: -551.510+/-321.243 $\chi^2$/NDF: 26.0/24

Left In: -44.468+/-235.733 $\chi^2$/NDF:12.8/22

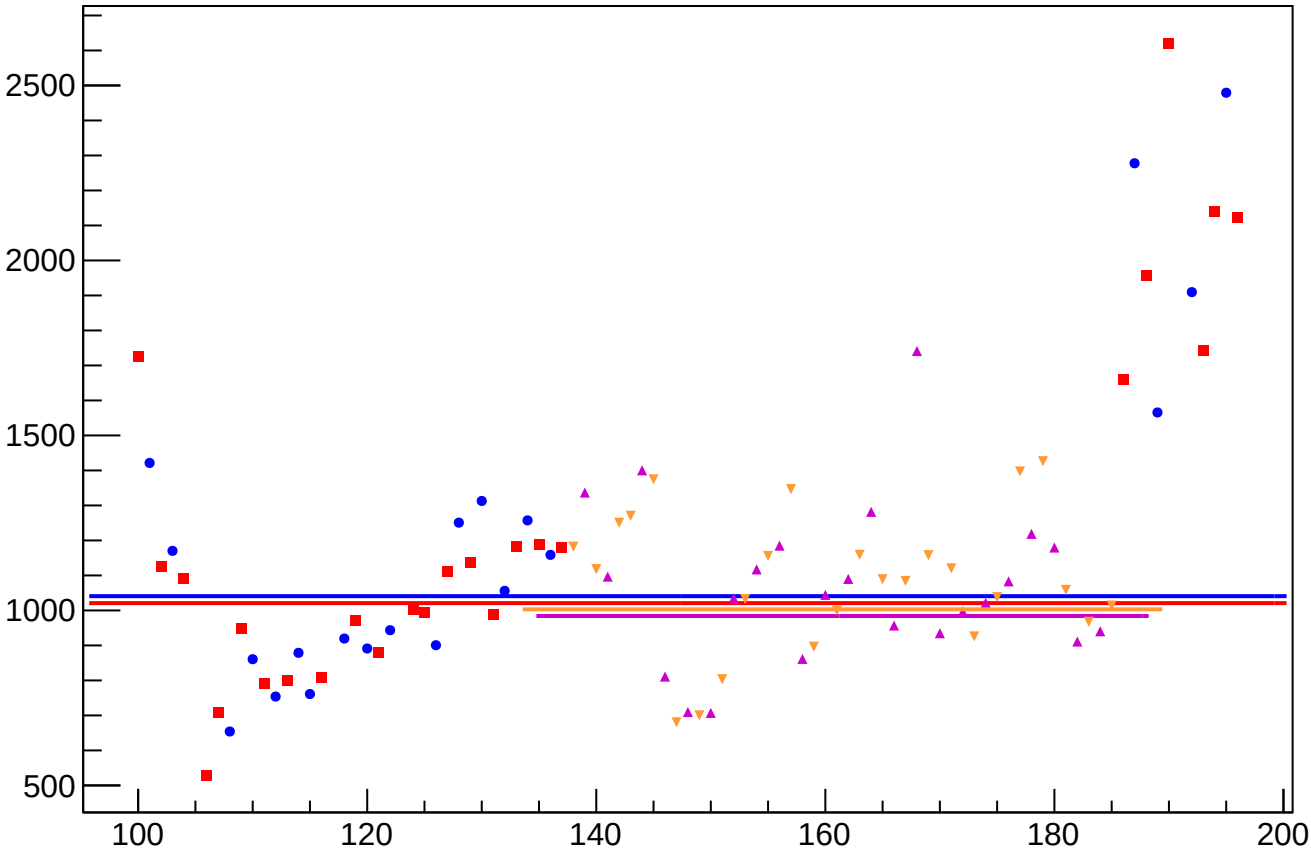
Left: -75.592+/-166.182 $\chi^2$/NDF: 41.8/47

Right: -457.269+/-237.501 $\chi^2$/NDF: 46.2/44

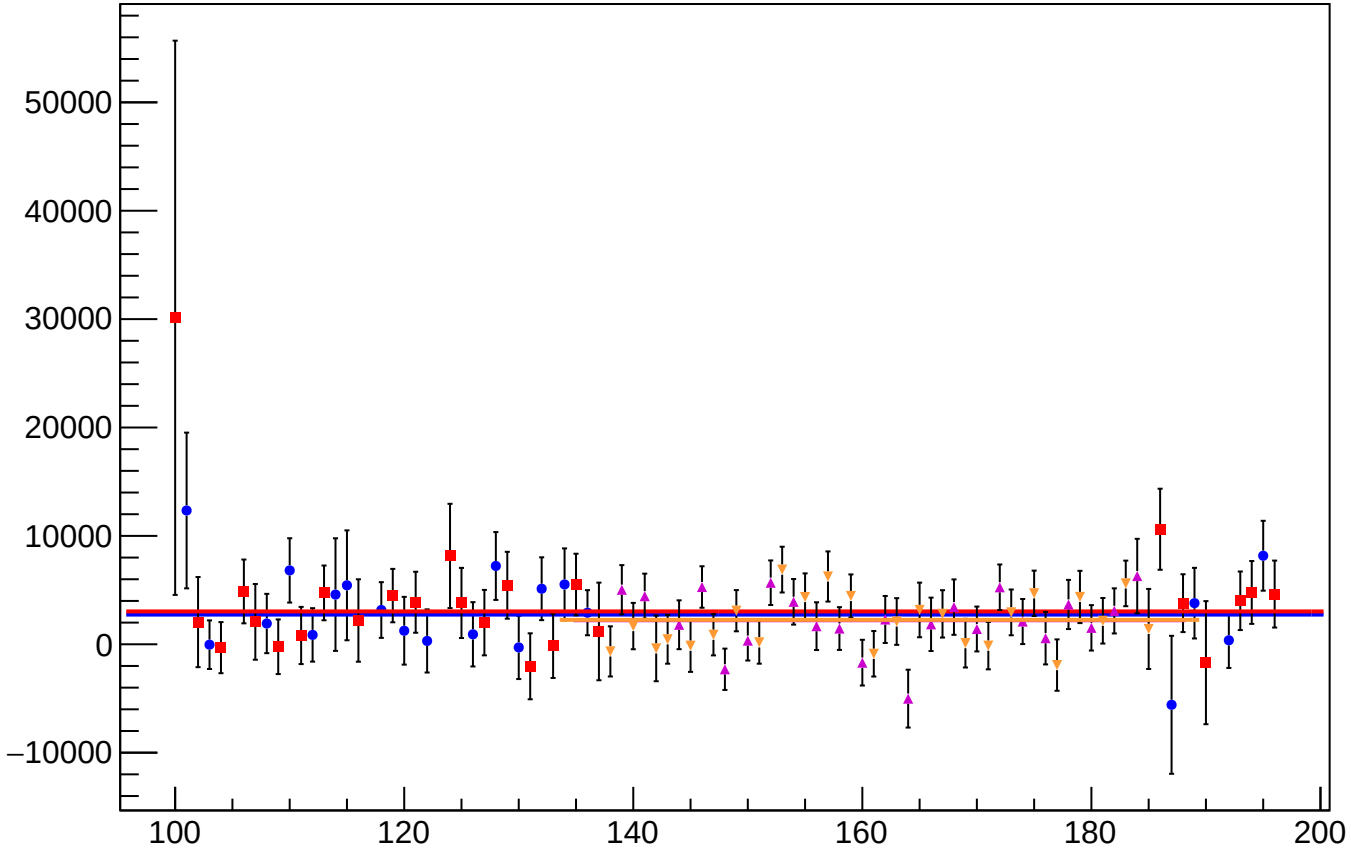
In: -136.847+/-195.990 $\chi^2$/NDF:33.3/42

Out: -260.927+/-189.303 $\chi^2$/NDF:56.3/49

All: -201.040+/-136.160 $\chi^2$/NDF: 89.7/92


asym_usr_atr1_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 1040.765+/-0.249 χ²/NDF: 1993662.8/19
Left Out: 1003.103+/-0.166 χ²/NDF:1598417.7/24
Right Out: 1020.926+/-0.227 χ²/NDF: 2956520.5/24
Left In: 984.055+/-0.167 χ²/NDF:1559563.7/22
Left: 993.637+/-0.118 χ²/NDF: 3164549.9/47
Right: 1029.921+/-0.168 χ²/NDF: 4953642.0/44
In: 1001.565+/-0.139 χ²/NDF:3588964.6/42
Out: 1009.292+/-0.134 χ²/NDF:4558956.5/49
All: 1005.563+/-0.096 χ²/NDF: 8149529.3/92

# asym_usr_atr1_avg_mean vs Slug, Sign Corrected




Right In: 2739.858+/-671.303 $\chi^2$/NDF: 17.6/19

Left Out: 2252.380+/-442.213 $\chi^2$/NDF:28.3/24

Right Out: 3031.388+/-619.266 $\chi^2$/NDF: 19.4/24

Left In: 2219.401+/-452.286 $\chi^2$/NDF:31.5/22

Left: 2236.262+/-316.193 $\chi^2$/NDF: 59.8/47

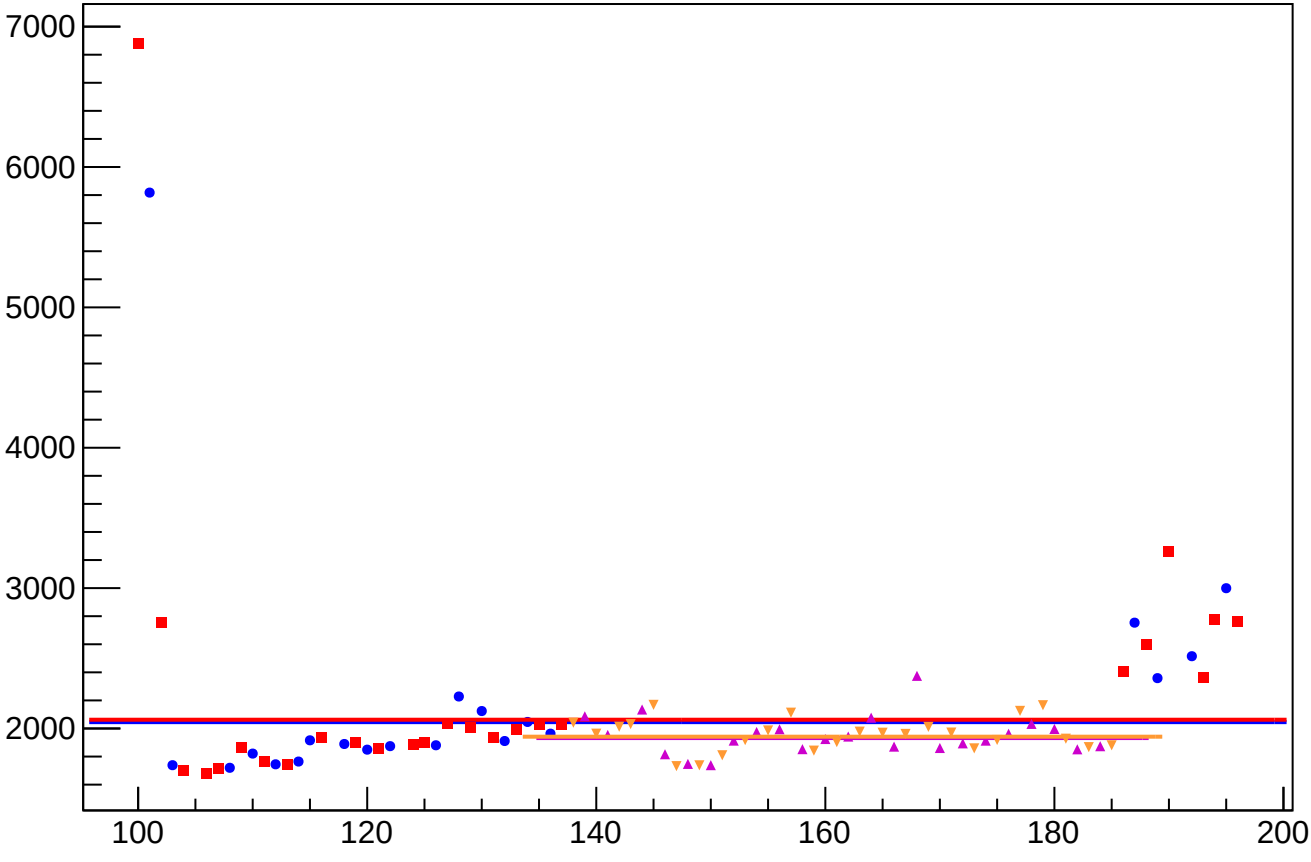
Right: 2897.359+/-455.173 $\chi^2$/NDF: 37.2/44

In: 2381.892+/-375.095 $\chi^2$/NDF:49.6/42

Out: 2515.464+/-359.876 $\chi^2$/NDF:48.8/49

All: 2451.443+/-259.685 $\chi^2$/NDF: 98.4/92

# asym_usr_atr1_avg_rms vs Slug, Sign Corrected




Right In: 2045.178+/-0.475 $\chi^2$/NDF: 995423.0/19

Left Out: 1941.583+/-0.313 $\chi^2$/NDF:139011.4/24

Right Out: 2062.427+/-0.438 $\chi^2$/NDF: 769505.2/24

Left In: 1931.812+/-0.320 $\chi^2$/NDF:159877.0/22

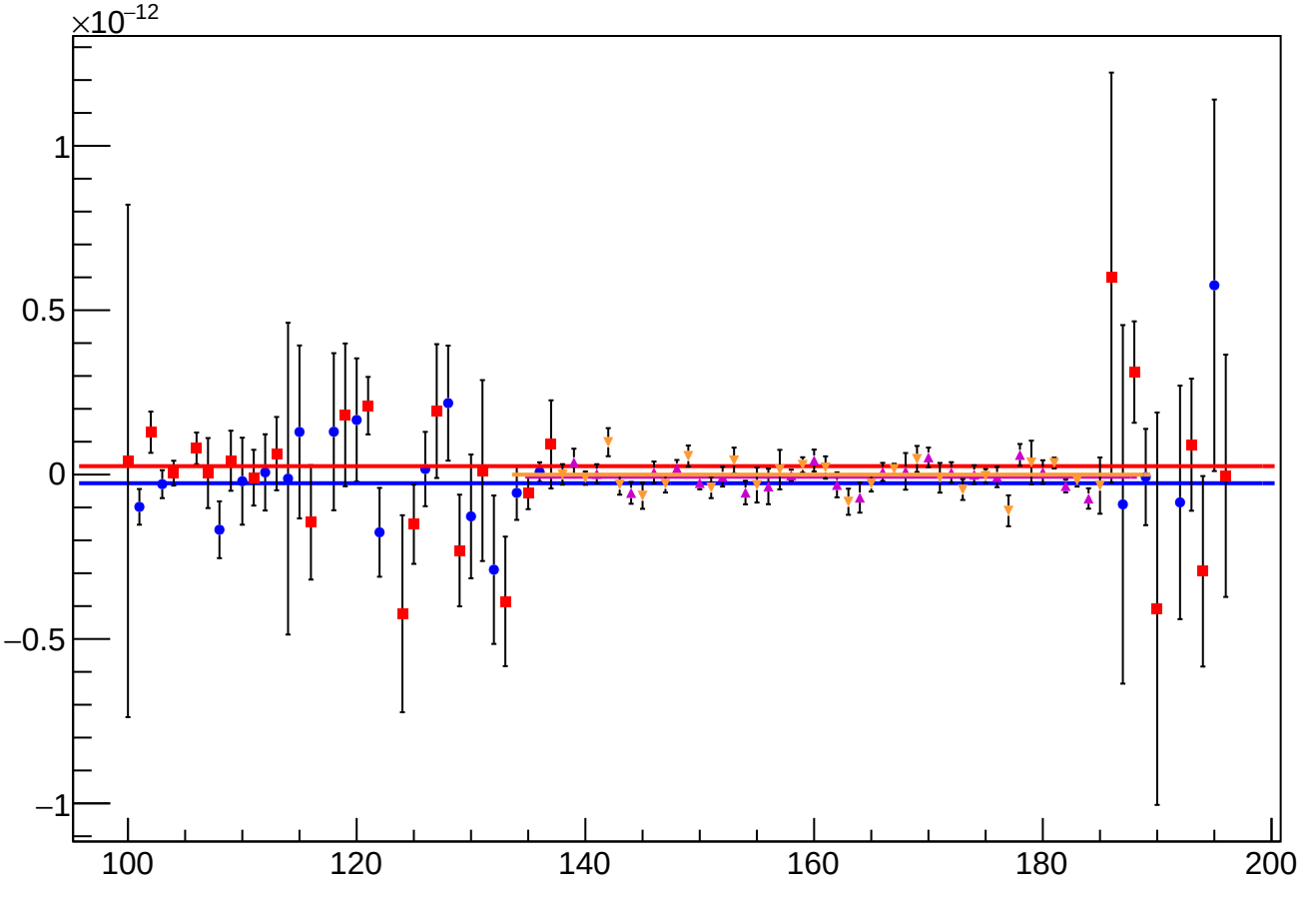
Left: 1936.808+/-0.224 $\chi^2$/NDF: 299365.5/47

Right: 2054.497+/-0.322 $\chi^2$/NDF: 1765641.5/44

In: 1967.206+/-0.265 $\chi^2$/NDF:1194529.4/42

Out: 1982.394+/-0.254 $\chi^2$/NDF:958956.0/49

All: 1975.114+/-0.184 $\chi^2$/NDF: 2155192.9/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:40.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 31.6/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.5/22

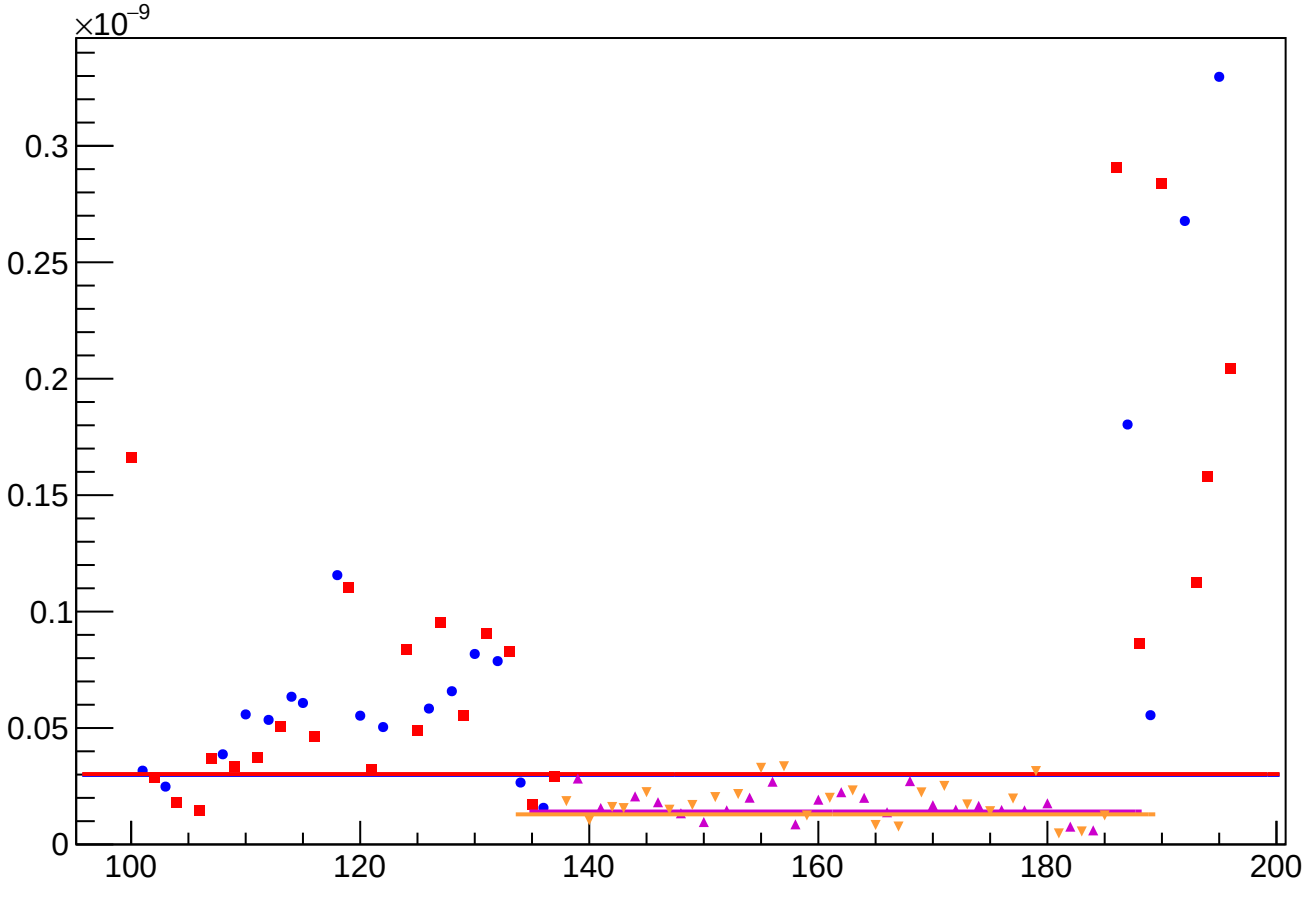
Left: -0.000+/-0.000 $\chi^2$/NDF: 68.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 49.3/44

In: -0.000+/-0.000 $\chi^2$/NDF:42.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:73.6/49

All: -0.000+/-0.000 $\chi^2$/NDF: 117.7/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3179703.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2826186.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3757125.5/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:1522273.8/22

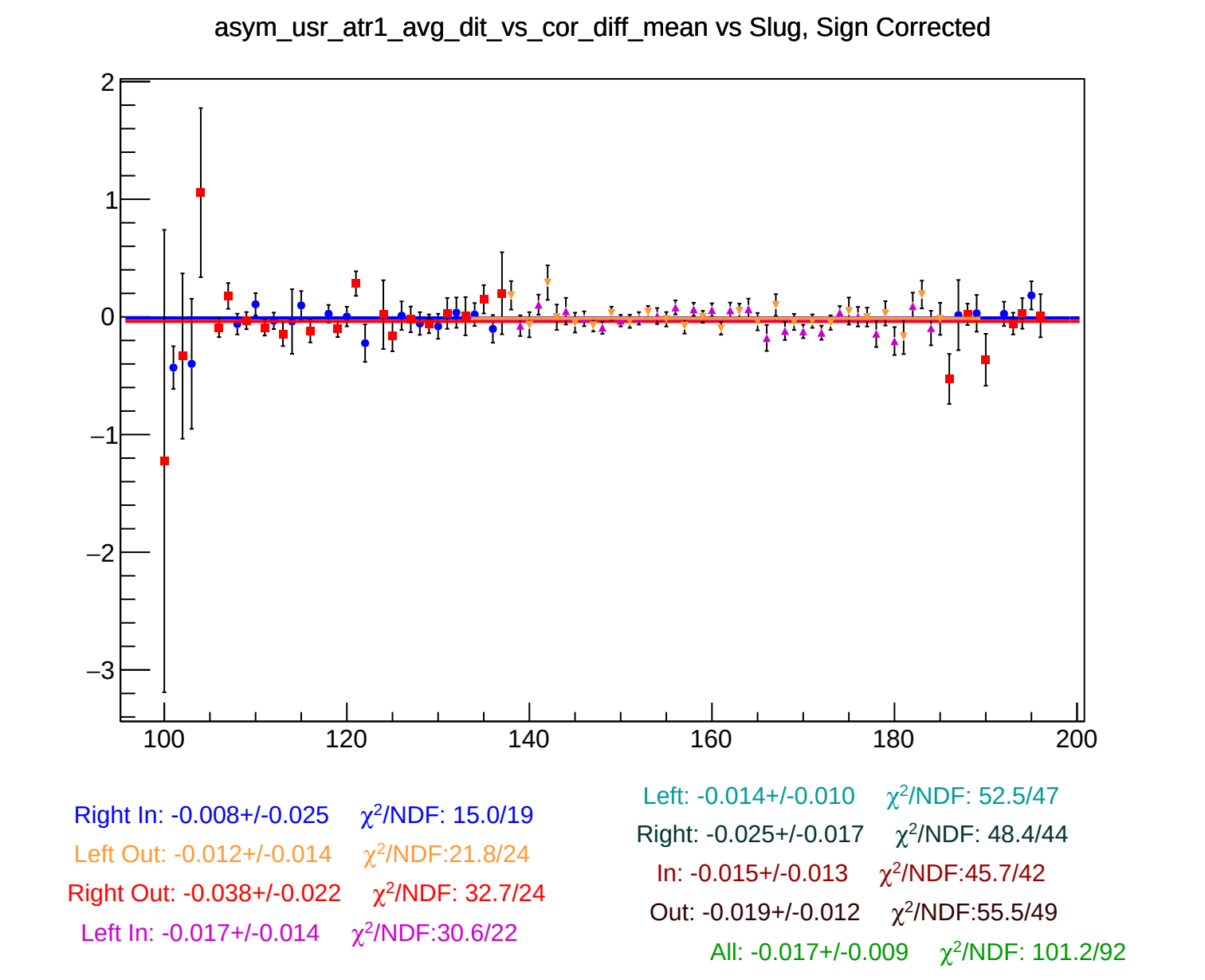
Left: 0.000+/-0.000 $\chi^2$/NDF: 4390810.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6937210.6/44

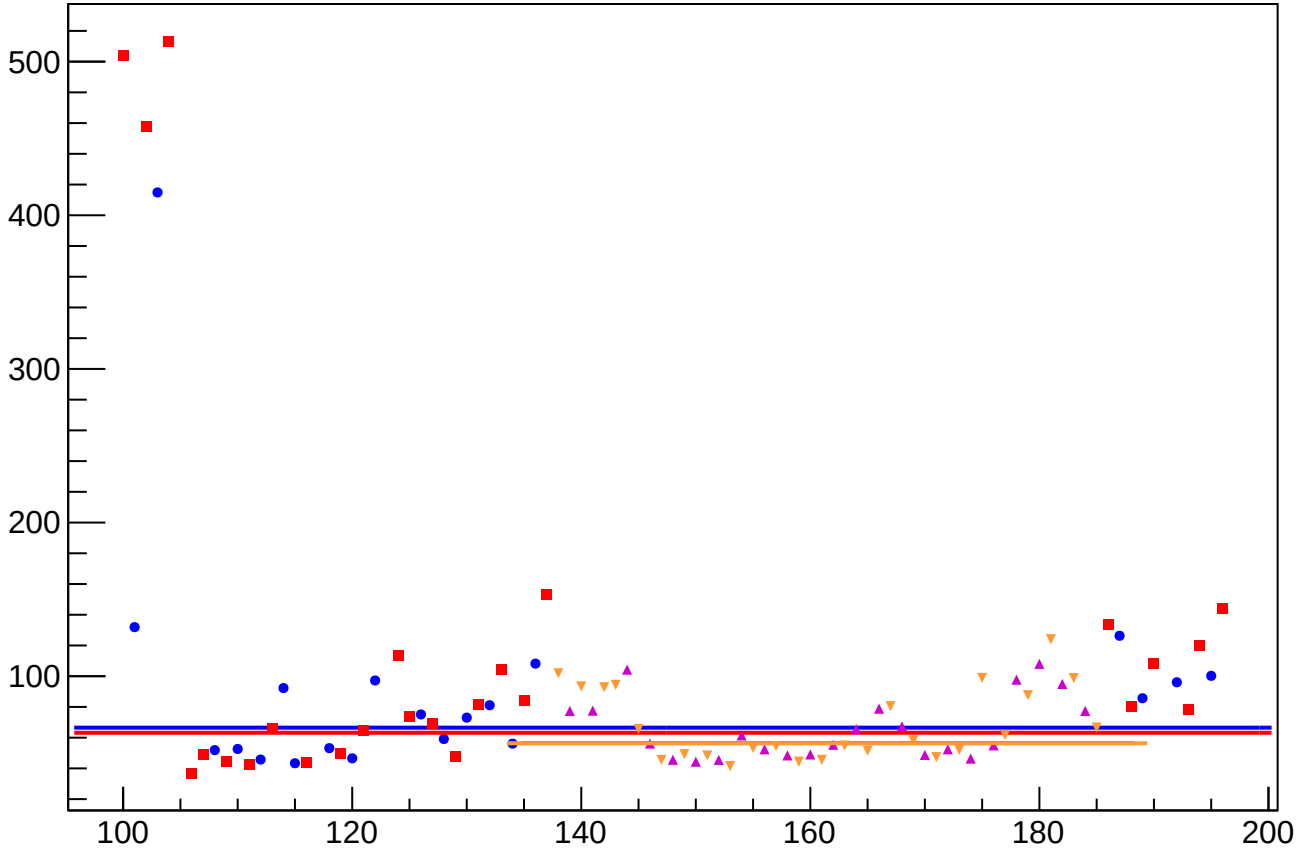
In: 0.000+/-0.000 $\chi^2$/NDF:5948596.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8099356.2/49

All: 0.000+/-0.000 $\chi^2$/NDF: 14099571.3/92


asym_usr_atr1_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: -0.008+/-0.025 χ²/NDF: 15.0/19
Left Out: -0.012+/-0.014 χ²/NDF:21.8/24
Right Out: -0.038+/-0.022 χ²/NDF: 32.7/24
Left In: -0.017+/-0.014 χ²/NDF:30.6/22
Left: -0.014+/-0.010 χ²/NDF: 52.5/47
Right: -0.025+/-0.017 χ²/NDF: 48.4/44
In: -0.015+/-0.013 χ²/NDF:45.7/42
Out: -0.019+/-0.012 χ²/NDF:55.5/49
All: -0.017+/-0.009 χ²/NDF: 101.2/92

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.511+/-0.017 $\chi^2$/NDF: 2431053.5/19

Left Out: 56.374+/-0.010 $\chi^2$/NDF:2797305.0/24

Right Out: 63.196+/-0.016 $\chi^2$/NDF: 3968261.9/24

Left In: 56.467+/-0.010 $\chi^2$/NDF:2140078.8/22

Left: 56.420+/-0.007 $\chi^2$/NDF: 4937425.9/47

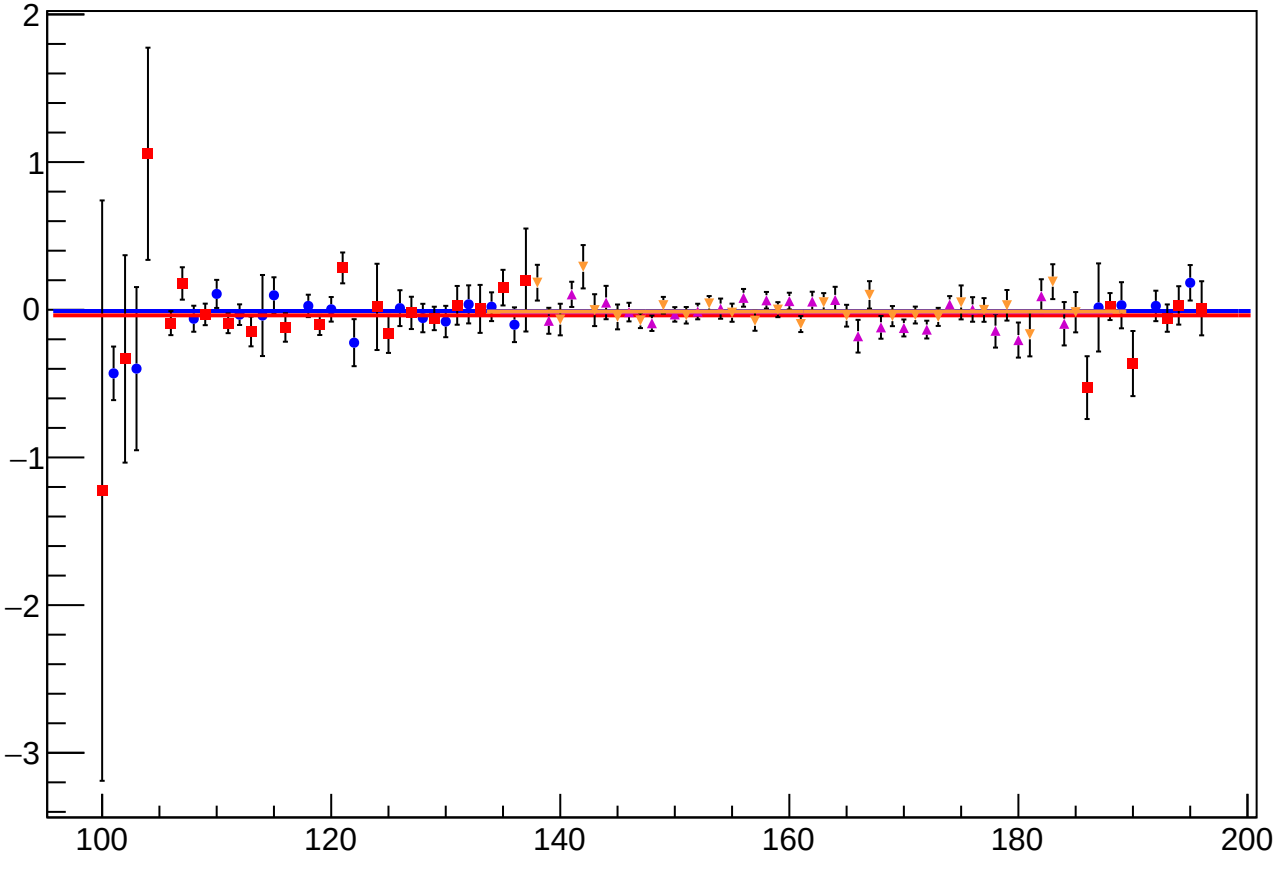
Right: 64.677+/-0.012 $\chi^2$/NDF: 6419176.3/44

In: 59.031+/-0.009 $\chi^2$/NDF:4816570.5/42

Out: 58.373+/-0.009 $\chi^2$/NDF:6898671.1/49

All: 58.690+/-0.006 $\chi^2$/NDF: 11718116.5/92

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.025 $\chi^2$/NDF: 15.0/19

Left Out: -0.012+/-0.014 $\chi^2$/NDF:21.8/24

Right Out: -0.038+/-0.022 $\chi^2$/NDF: 32.7/24

Left In: -0.017+/-0.014 $\chi^2$/NDF:30.6/22

Left: -0.014+/-0.010 $\chi^2$/NDF: 52.5/47

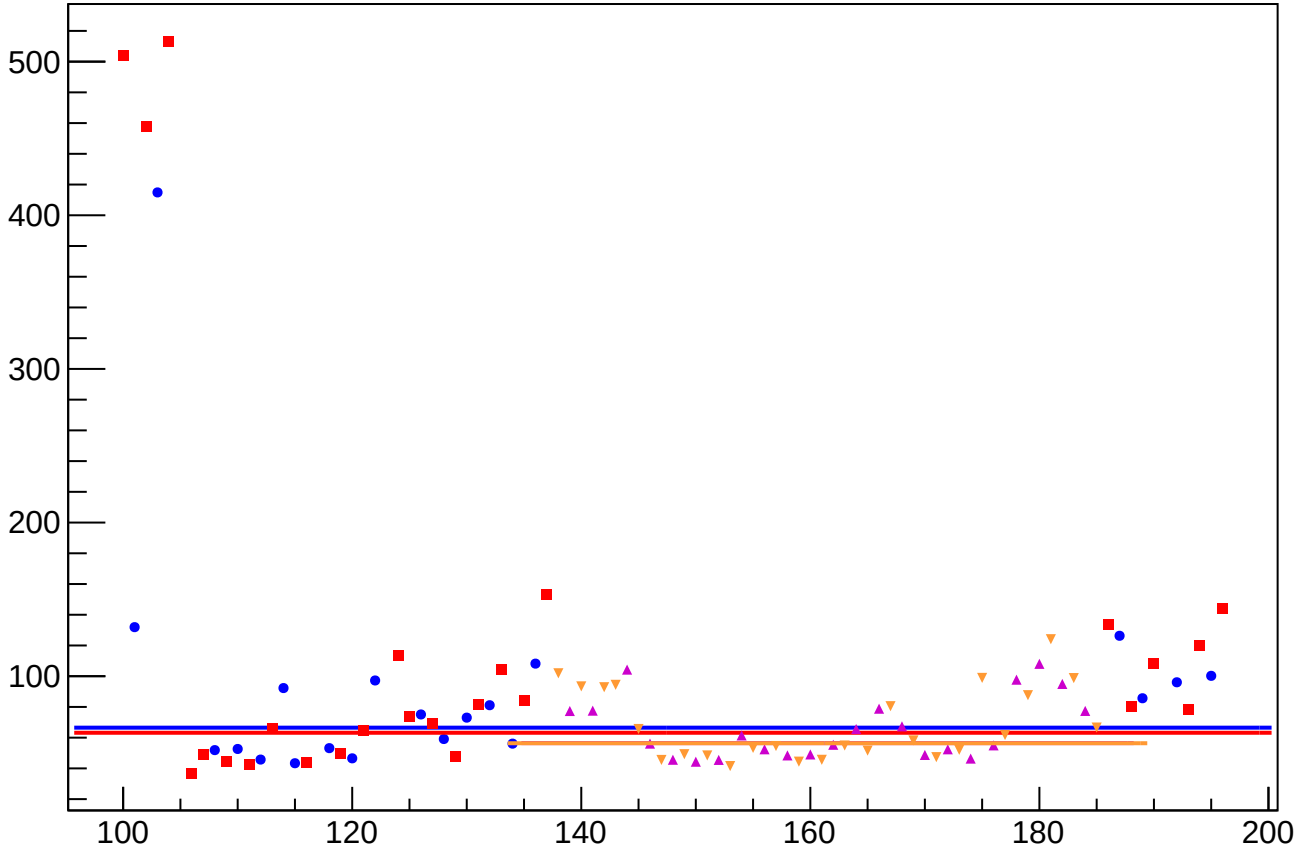
Right: -0.025+/-0.017 $\chi^2$/NDF: 48.4/44

In: -0.015+/-0.013 $\chi^2$/NDF:45.7/42

Out: -0.019+/-0.012 $\chi^2$/NDF:55.5/49

All: -0.017+/-0.009 $\chi^2$/NDF: 101.2/92

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.511+/-0.017 $\chi^2$/NDF: 2431053.5/19

Left Out: 56.374+/-0.010 $\chi^2$/NDF:2797305.0/24

Right Out: 63.196+/-0.016 $\chi^2$/NDF: 3968261.9/24

Left In: 56.467+/-0.010 $\chi^2$/NDF:2140078.8/22

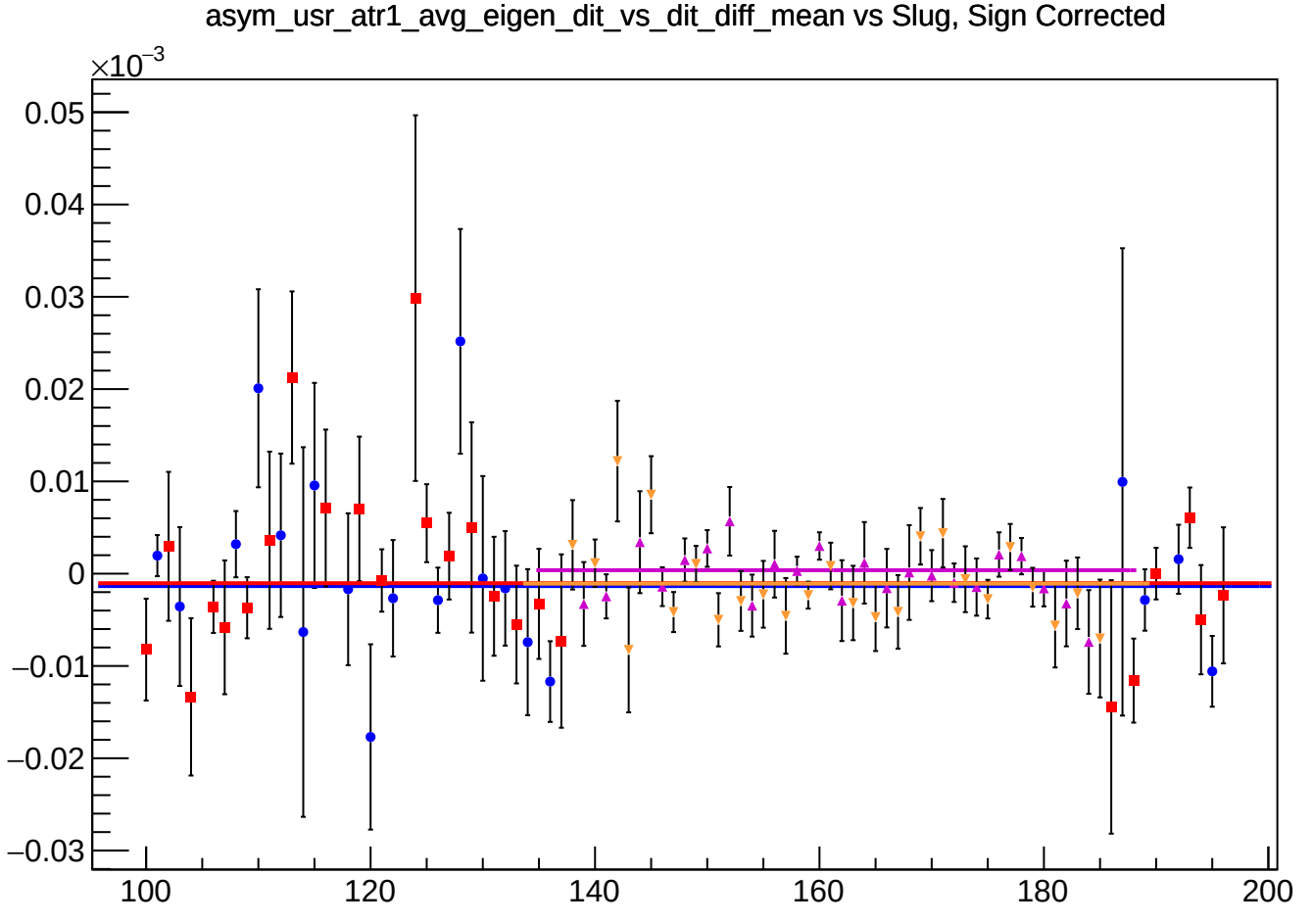
Left: 56.420+/-0.007 $\chi^2$/NDF: 4937425.9/47

Right: 64.677+/-0.012 $\chi^2$/NDF: 6419176.3/44

In: 59.031+/-0.009 $\chi^2$/NDF:4816570.5/42

Out: 58.373+/-0.009 $\chi^2$/NDF:6898671.1/49

All: 58.690+/-0.006 $\chi^2$/NDF: 11718116.5/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.1/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.5/22

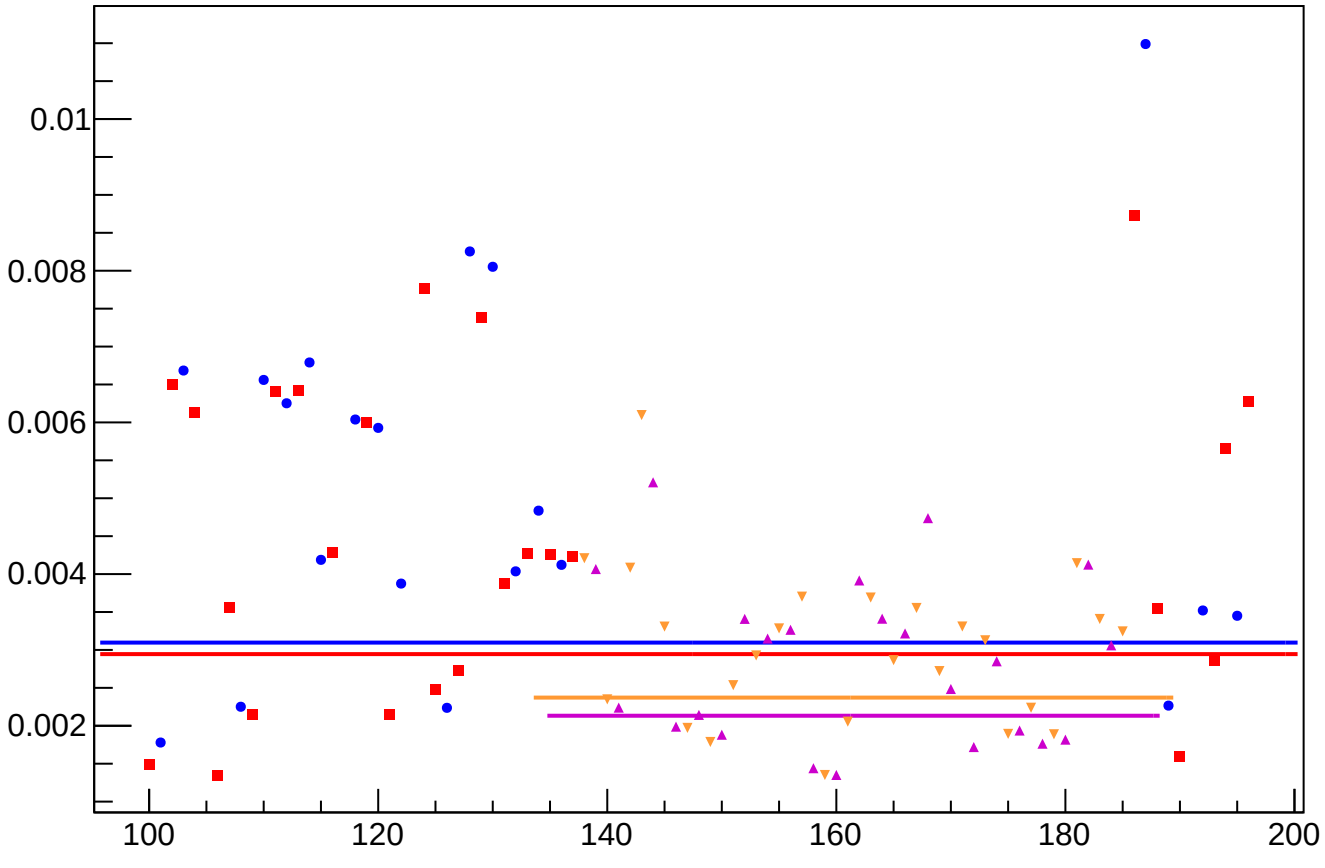
Left: -0.000+/-0.000 $\chi^2$/NDF: 52.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 62.1/44

In: 0.000+/-0.000 $\chi^2$/NDF:49.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:63.7/49

All: -0.000+/-0.000 $\chi^2$/NDF: 115.5/92




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3646028.9/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:4161142.1/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4983013.7/24

Left In: 0.002+/-0.000 $\chi^2$/NDF:4521223.3/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 8864827.0/47

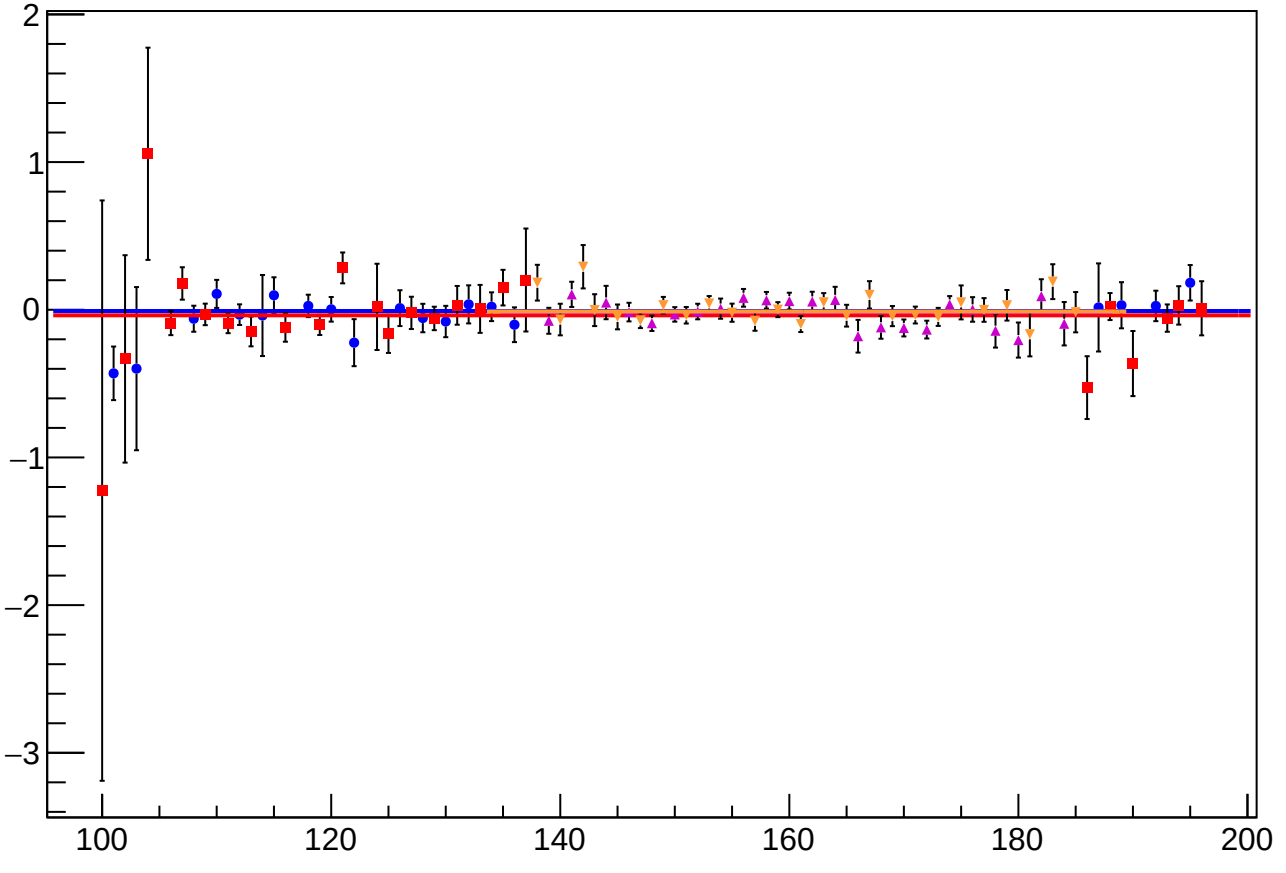
Right: 0.003+/-0.000 $\chi^2$/NDF: 8649081.2/44

In: 0.002+/-0.000 $\chi^2$/NDF:9370278.6/42

Out: 0.003+/-0.000 $\chi^2$/NDF:9620270.8/49

All: 0.002+/-0.000 $\chi^2$/NDF: 19152586.0/92

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.025 $\chi^2$/NDF: 15.0/19

Left Out: -0.012+/-0.014 $\chi^2$/NDF:21.8/24

Right Out: -0.038+/-0.022 $\chi^2$/NDF: 32.7/24

Left In: -0.017+/-0.014 $\chi^2$/NDF:30.6/22

Left: -0.014+/-0.010 $\chi^2$/NDF: 52.5/47

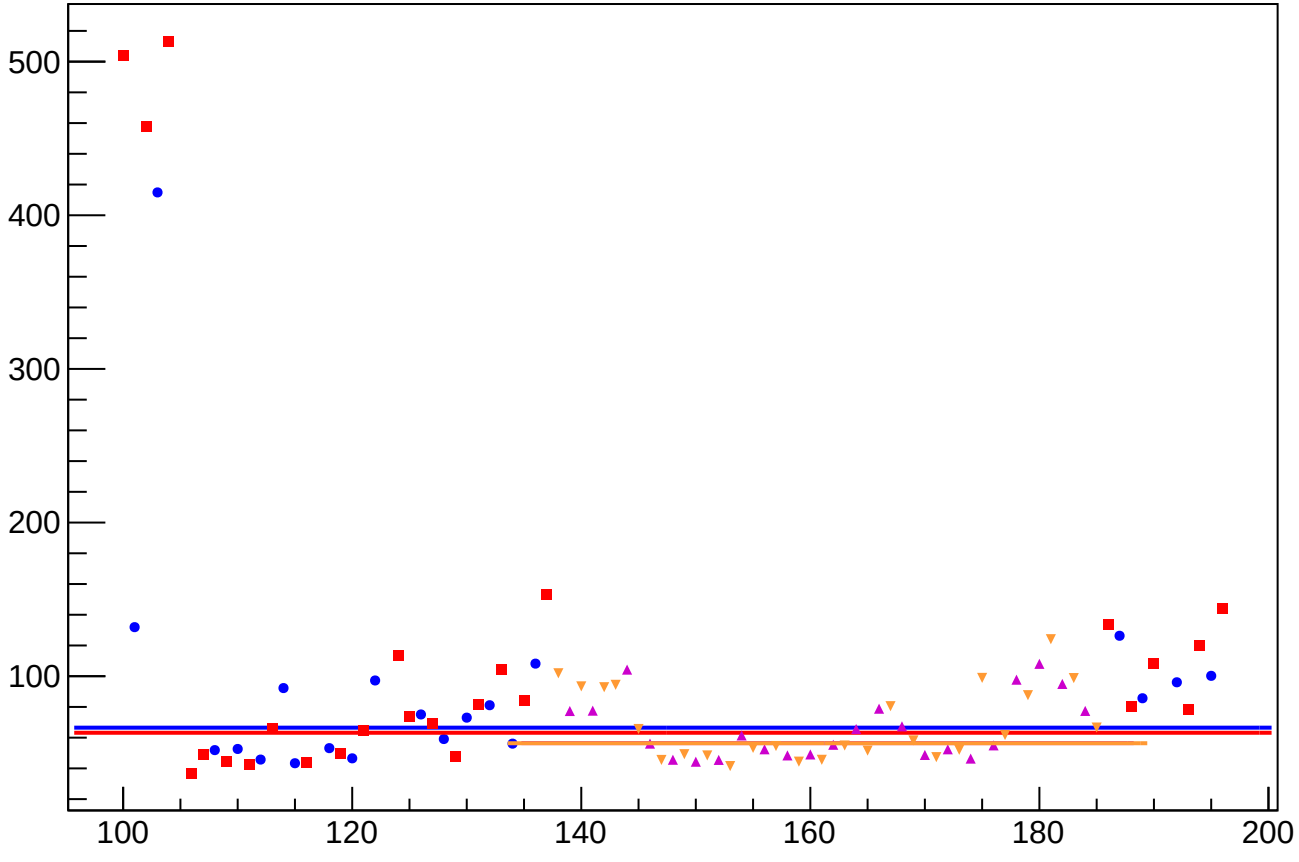
Right: -0.025+/-0.017 $\chi^2$/NDF: 48.4/44

In: -0.015+/-0.013 $\chi^2$/NDF:45.7/42

Out: -0.019+/-0.012 $\chi^2$/NDF:55.5/49

All: -0.017+/-0.009 $\chi^2$/NDF: 101.2/92

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.510+/-0.017 $\chi^2$/NDF: 2431025.8/19

Left Out: 56.374+/-0.010 $\chi^2$/NDF:2797380.0/24

Right Out: 63.195+/-0.016 $\chi^2$/NDF: 3968269.0/24

Left In: 56.467+/-0.010 $\chi^2$/NDF:2140063.7/22

Left: 56.420+/-0.007 $\chi^2$/NDF: 4937485.7/47

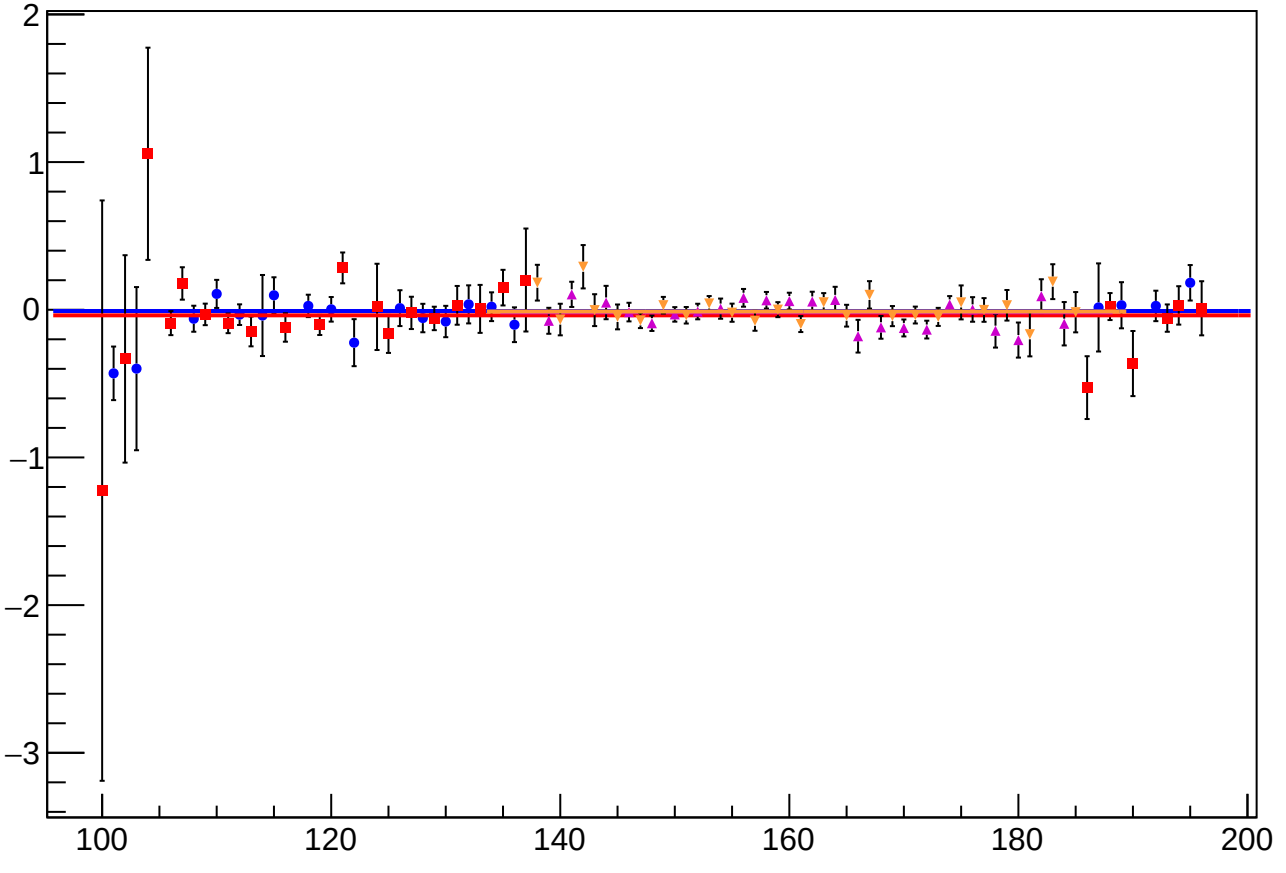
Right: 64.676+/-0.012 $\chi^2$/NDF: 6419157.3/44

In: 59.031+/-0.009 $\chi^2$/NDF:4816491.1/42

Out: 58.373+/-0.009 $\chi^2$/NDF:6898716.1/49

All: 58.690+/-0.006 $\chi^2$/NDF: 11718082.3/92

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.008+/-0.025 $\chi^2$/NDF: 15.0/19

Left Out: -0.012+/-0.014 $\chi^2$/NDF:21.8/24

Right Out: -0.038+/-0.022 $\chi^2$/NDF: 32.7/24

Left In: -0.017+/-0.014 $\chi^2$/NDF:30.6/22

Left: -0.014+/-0.010 $\chi^2$/NDF: 52.5/47

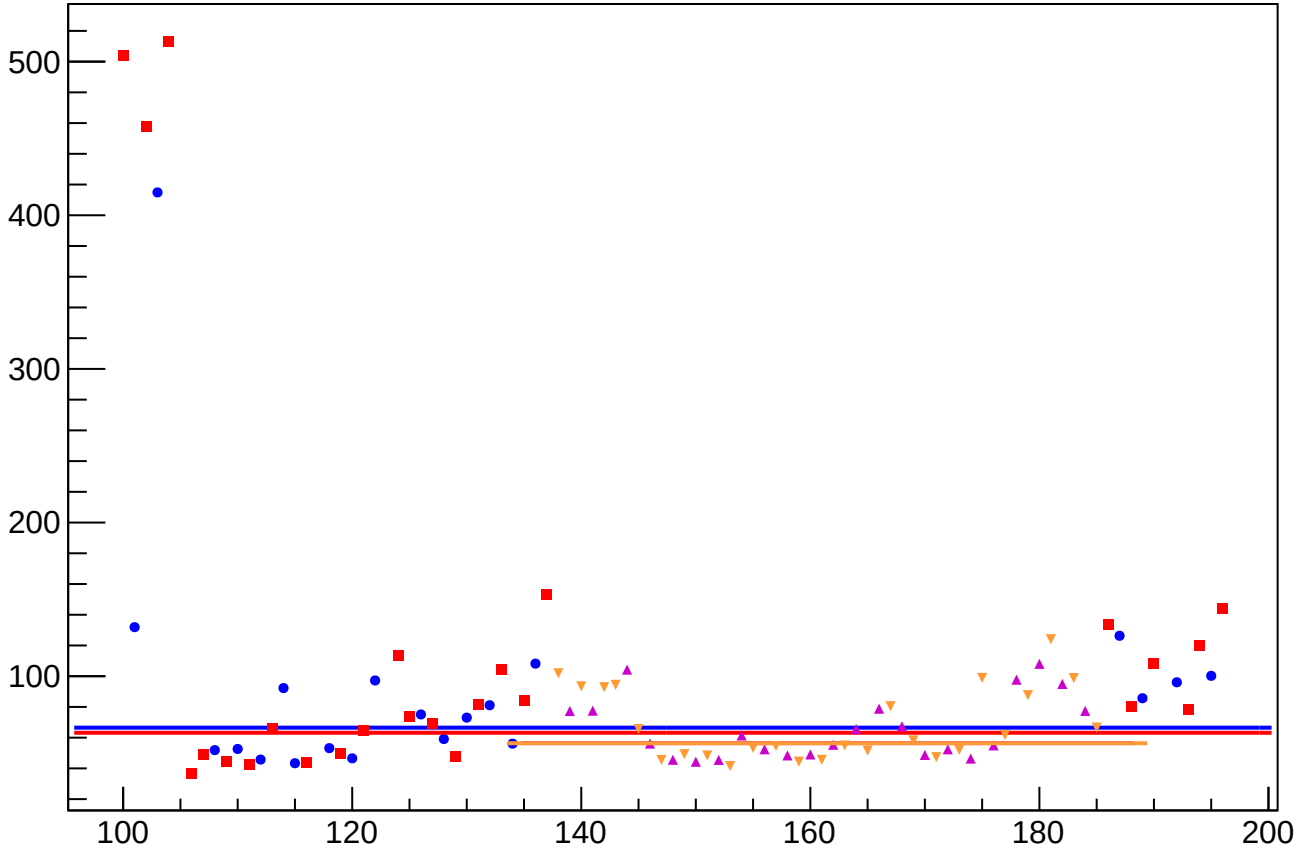
Right: -0.025+/-0.017 $\chi^2$/NDF: 48.4/44

In: -0.015+/-0.013 $\chi^2$/NDF:45.7/42

Out: -0.019+/-0.012 $\chi^2$/NDF:55.5/49

All: -0.017+/-0.009 $\chi^2$/NDF: 101.2/92

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.510+/-0.017 $\chi^2$/NDF: 2431025.8/19

Left Out: 56.374+/-0.010 $\chi^2$/NDF:2797380.0/24

Right Out: 63.195+/-0.016 $\chi^2$/NDF: 3968269.0/24

Left In: 56.467+/-0.010 $\chi^2$/NDF:2140063.7/22

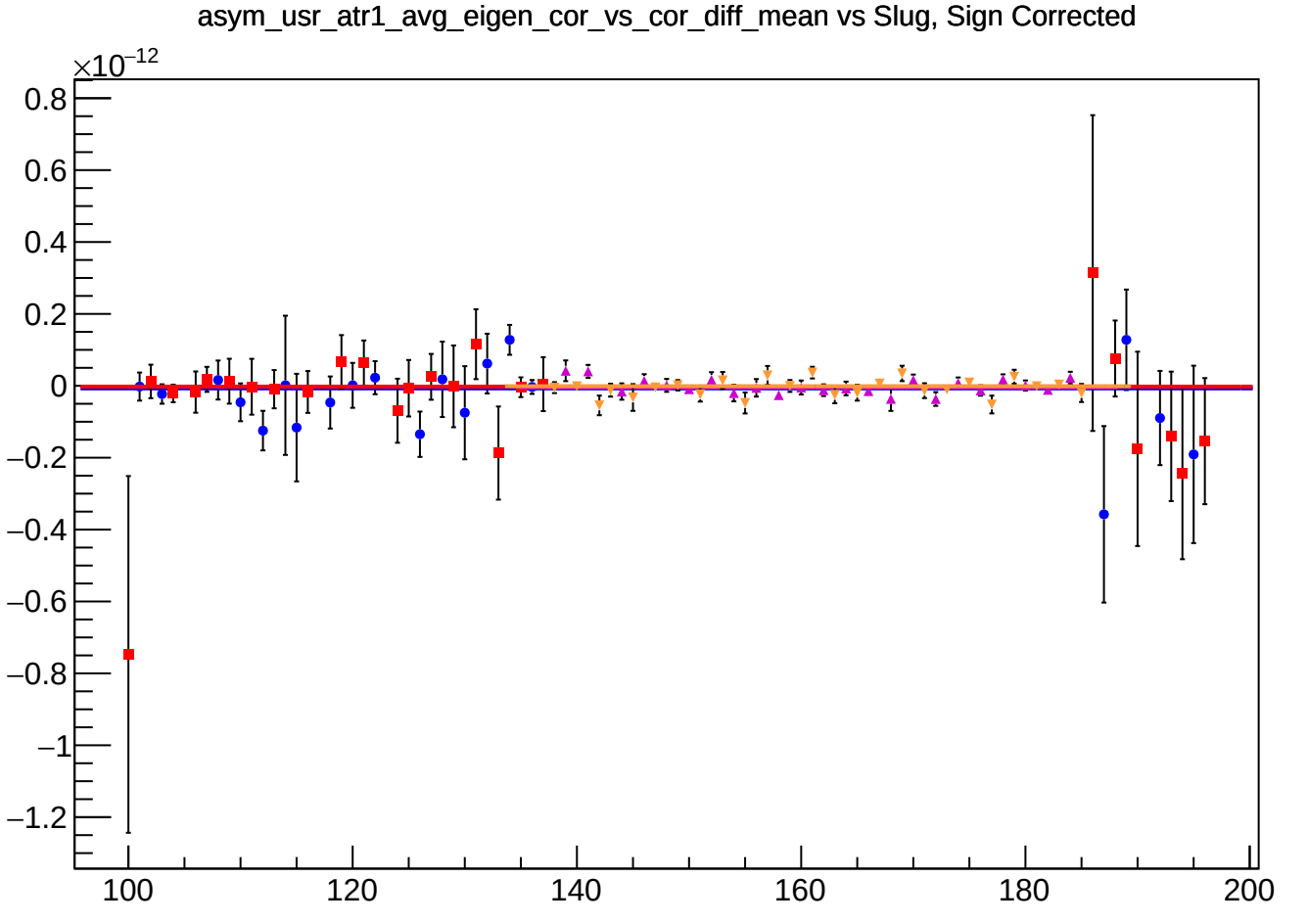
Left: 56.420+/-0.007 $\chi^2$/NDF: 4937485.7/47

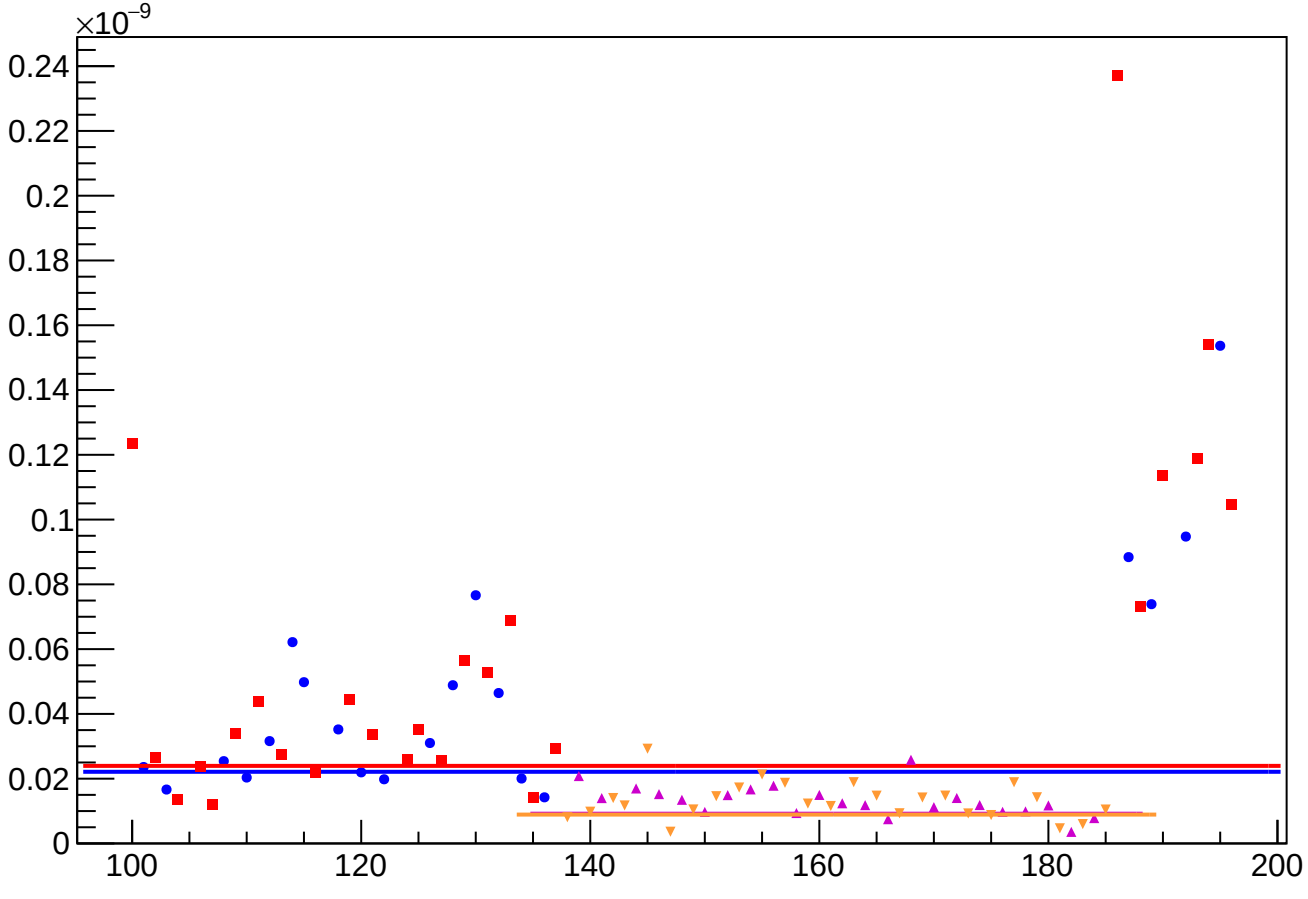
Right: 64.676+/-0.012 $\chi^2$/NDF: 6419157.3/44

In: 59.031+/-0.009 $\chi^2$/NDF:4816491.1/42

Out: 58.373+/-0.009 $\chi^2$/NDF:6898716.1/49

All: 58.690+/-0.006 $\chi^2$/NDF: 11718082.3/92


asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 26.5/19
Left Out: -0.000+/-0.000 χ²/NDF:29.6/24
Right Out: -0.000+/-0.000 χ²/NDF: 13.5/24
Left In: -0.000+/-0.000 χ²/NDF:28.4/22
Left: -0.000+/-0.000 χ²/NDF: 58.8/47
Right: -0.000+/-0.000 χ²/NDF: 40.1/44
In: -0.000+/-0.000 χ²/NDF:55.0/42
Out: -0.000+/-0.000 χ²/NDF:43.1/49
All: -0.000+/-0.000 χ²/NDF: 99.0/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3013196.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5051836.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4659722.4/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:5079391.4/22

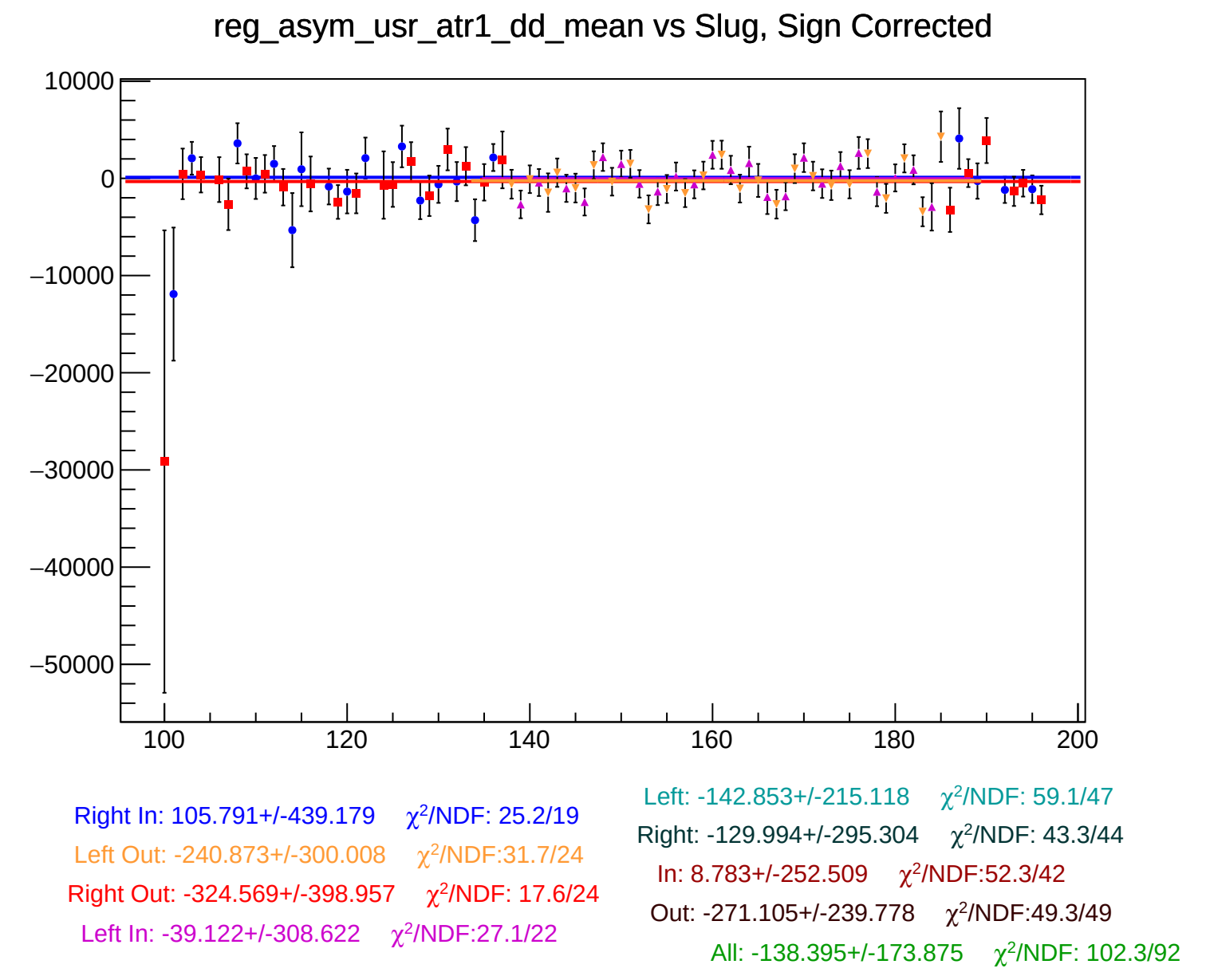
Left: 0.000+/-0.000 $\chi^2$/NDF: 10139912.3/47

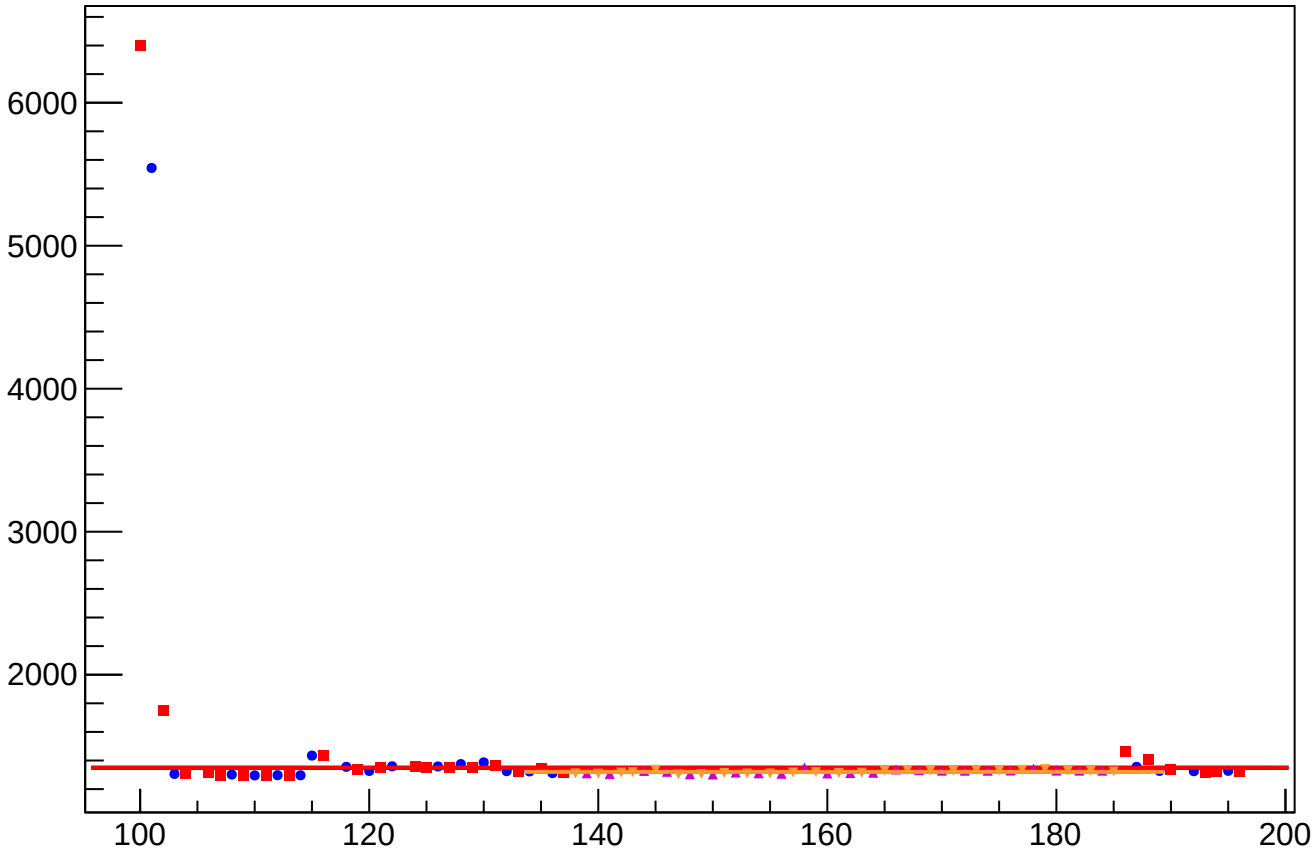
Right: 0.000+/-0.000 $\chi^2$/NDF: 7698267.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:10590129.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12801918.3/49

All: 0.000+/-0.000 $\chi^2$/NDF: 23400765.3/92


reg_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: 105.791+/-439.179 χ²/NDF: 25.2/19
Left Out: -240.873+/-300.008 χ²/NDF:31.7/24
Right Out: -324.569+/-398.957 χ²/NDF: 17.6/24
Left In: -39.122+/-308.622 χ²/NDF:27.1/22
Left: -142.853+/-215.118 χ²/NDF: 59.1/47
Right: -129.994+/-295.304 χ²/NDF: 43.3/44
In: 8.783+/-252.509 χ²/NDF:52.3/42
Out: -271.105+/-239.778 χ²/NDF:49.3/49
All: -138.395+/-173.875 χ²/NDF: 102.3/92




Right In: 1348.633+/-0.311 $\chi^2$/NDF: 762032.8/19

Left Out: 1320.740+/-0.212 $\chi^2$/NDF:2602.3/24

Right Out: 1350.424+/-0.282 $\chi^2$/NDF: 157811.7/24

Left In: 1321.782+/-0.218 $\chi^2$/NDF:3553.3/22

Left: 1321.247+/-0.152 $\chi^2$/NDF: 6167.3/47

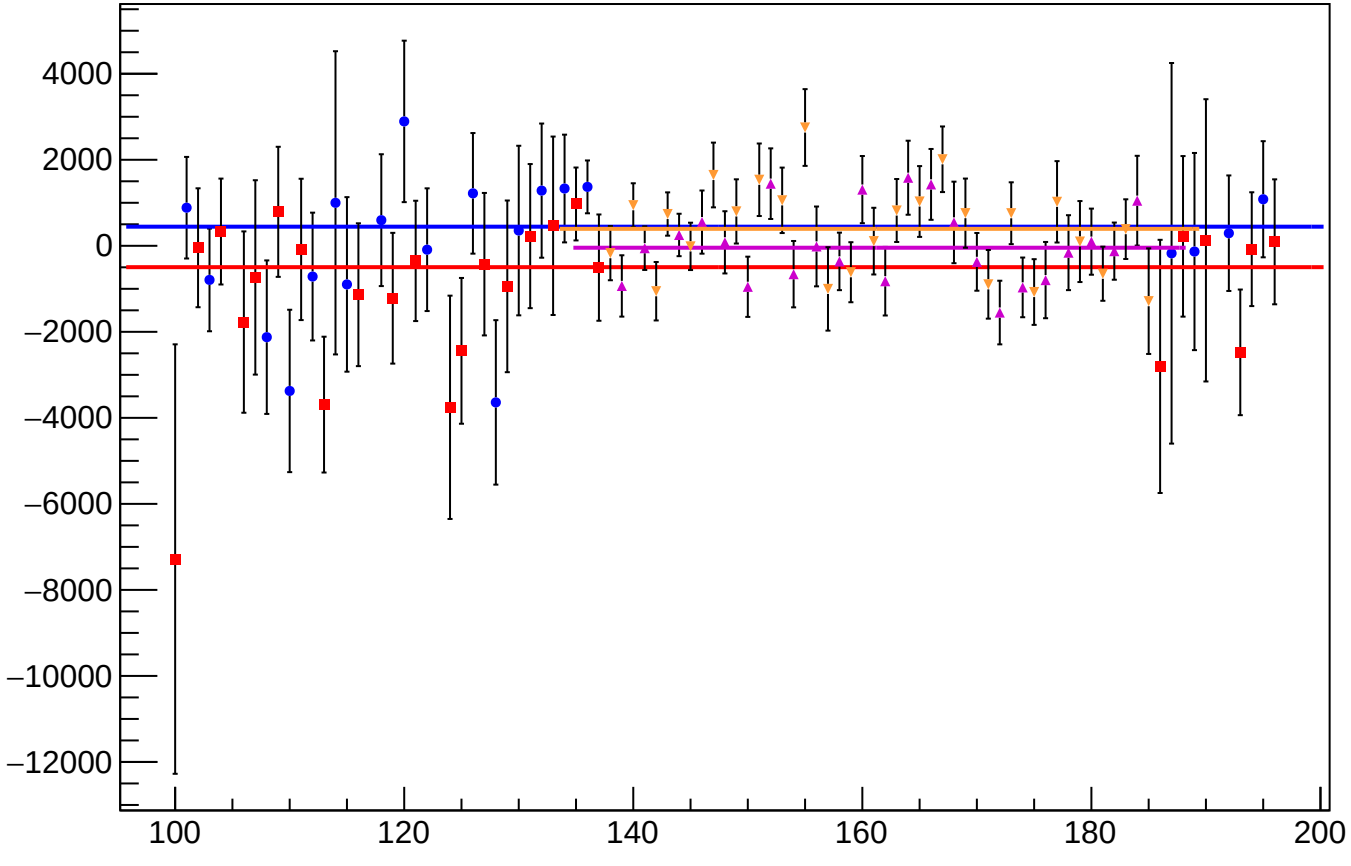
Right: 1349.614+/-0.209 $\chi^2$/NDF: 919862.7/44

In: 1330.659+/-0.179 $\chi^2$/NDF:770590.5/42

Out: 1331.463+/-0.170 $\chi^2$/NDF:167486.6/49

All: 1331.081+/-0.123 $\chi^2$/NDF: 938087.7/92

asym_usr_atr1_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 444.584+/-315.064 $\chi^2$/NDF: 18.6/19

Left Out: 394.550+/-144.562 $\chi^2$/NDF:41.8/24

Right Out: -496.795+/-317.534 $\chi^2$/NDF: 17.3/24

Left In: -44.777+/-152.333 $\chi^2$/NDF:27.6/22

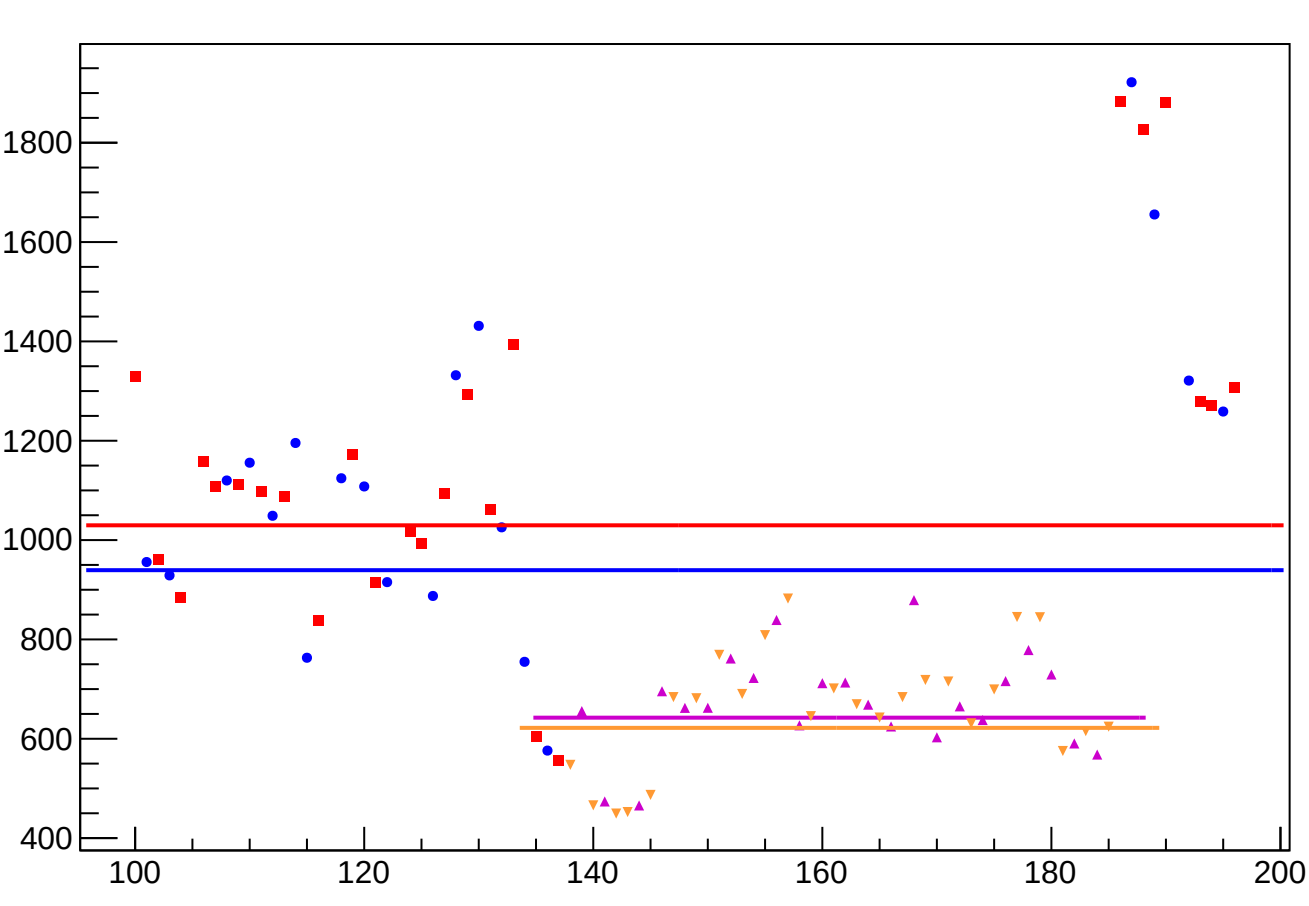
Left: 186.377+/-104.860 $\chi^2$/NDF: 73.8/47

Right: -22.430+/-223.652 $\chi^2$/NDF: 40.3/44

In: 47.945+/-137.144 $\chi^2$/NDF:48.1/42

Out: 241.522+/-131.569 $\chi^2$/NDF:65.7/49

All: 148.748+/-94.943 $\chi^2$/NDF: 114.8/92




Right In: 939.416+/-0.223 $\chi^2$/NDF: 1657528.8/19

Left Out: 621.950+/-0.102 $\chi^2$/NDF:1383473.2/24

Right Out: 1029.745+/-0.225 $\chi^2$/NDF: 1882654.0/24

Left In: 642.470+/-0.108 $\chi^2$/NDF:926330.5/22

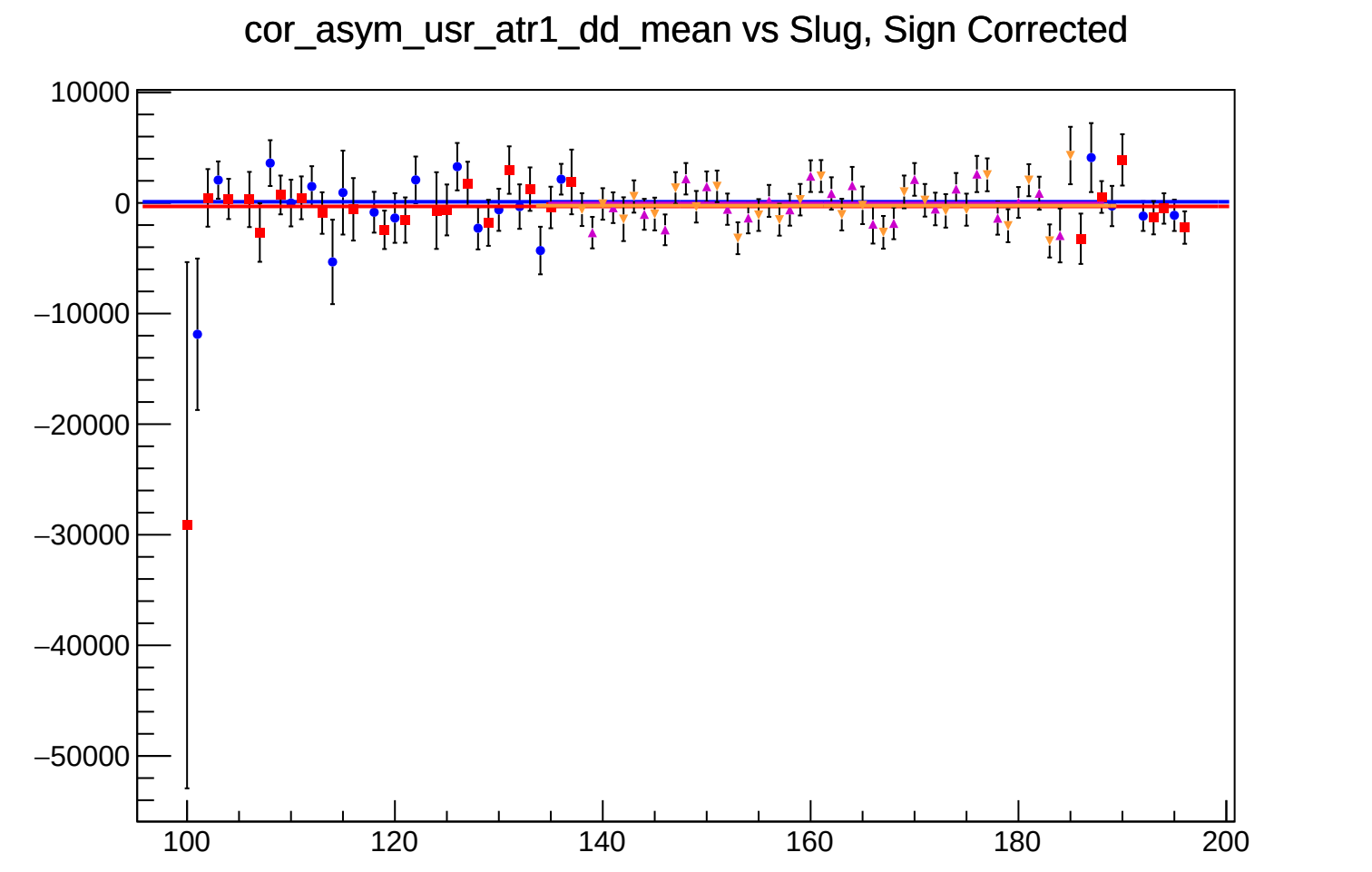
Left: 631.673+/-0.074 $\chi^2$/NDF: 2328898.3/47

Right: 984.227+/-0.158 $\chi^2$/NDF: 3621737.7/44

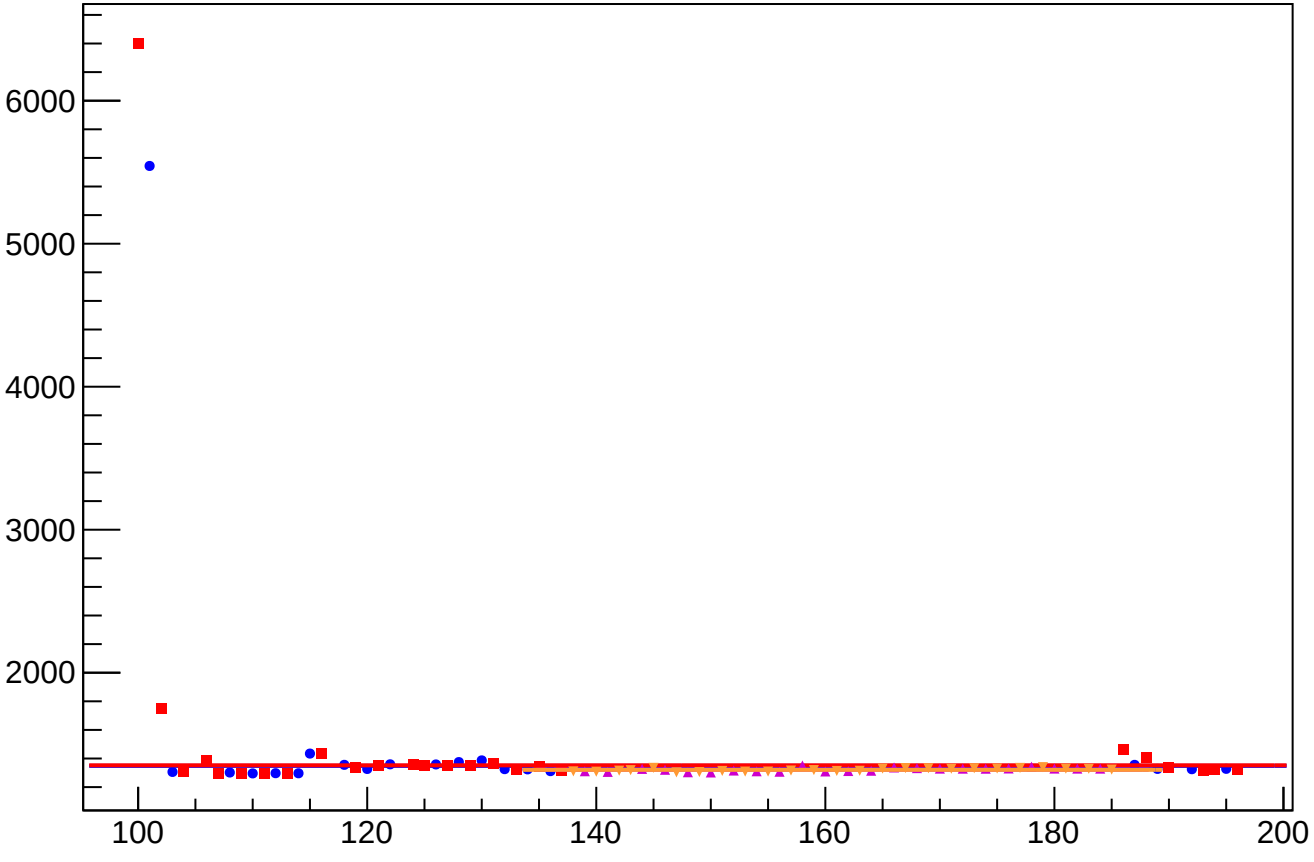
In: 698.734+/-0.097 $\chi^2$/NDF:4023821.7/42

Out: 691.961+/-0.093 $\chi^2$/NDF:5998428.8/49

All: 695.207+/-0.067 $\chi^2$/NDF: 10024790.9/92


cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: 105.959+/-439.179 χ²/NDF: 25.1/19
Left Out: -240.875+/-300.008 χ²/NDF:31.7/24
Right Out: -314.237+/-399.819 χ²/NDF: 17.6/24
Left In: -39.193+/-308.622 χ²/NDF:27.1/22
Left: -142.888+/-215.118 χ²/NDF: 59.1/47
Right: -123.809+/-295.653 χ²/NDF: 43.3/44
In: 8.791+/-252.509 χ²/NDF:52.3/42
Out: -267.302+/-239.965 χ²/NDF:49.4/49
All: -136.284+/-173.946 χ²/NDF: 102.3/92

# cor_asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1348.633+/-0.311 $\chi^2$/NDF: 762031.8/19

Left Out: 1320.740+/-0.212 $\chi^2$/NDF:2602.3/24

Right Out: 1352.397+/-0.283 $\chi^2$/NDF: 157829.0/24

Left In: 1321.783+/-0.218 $\chi^2$/NDF:3553.3/22

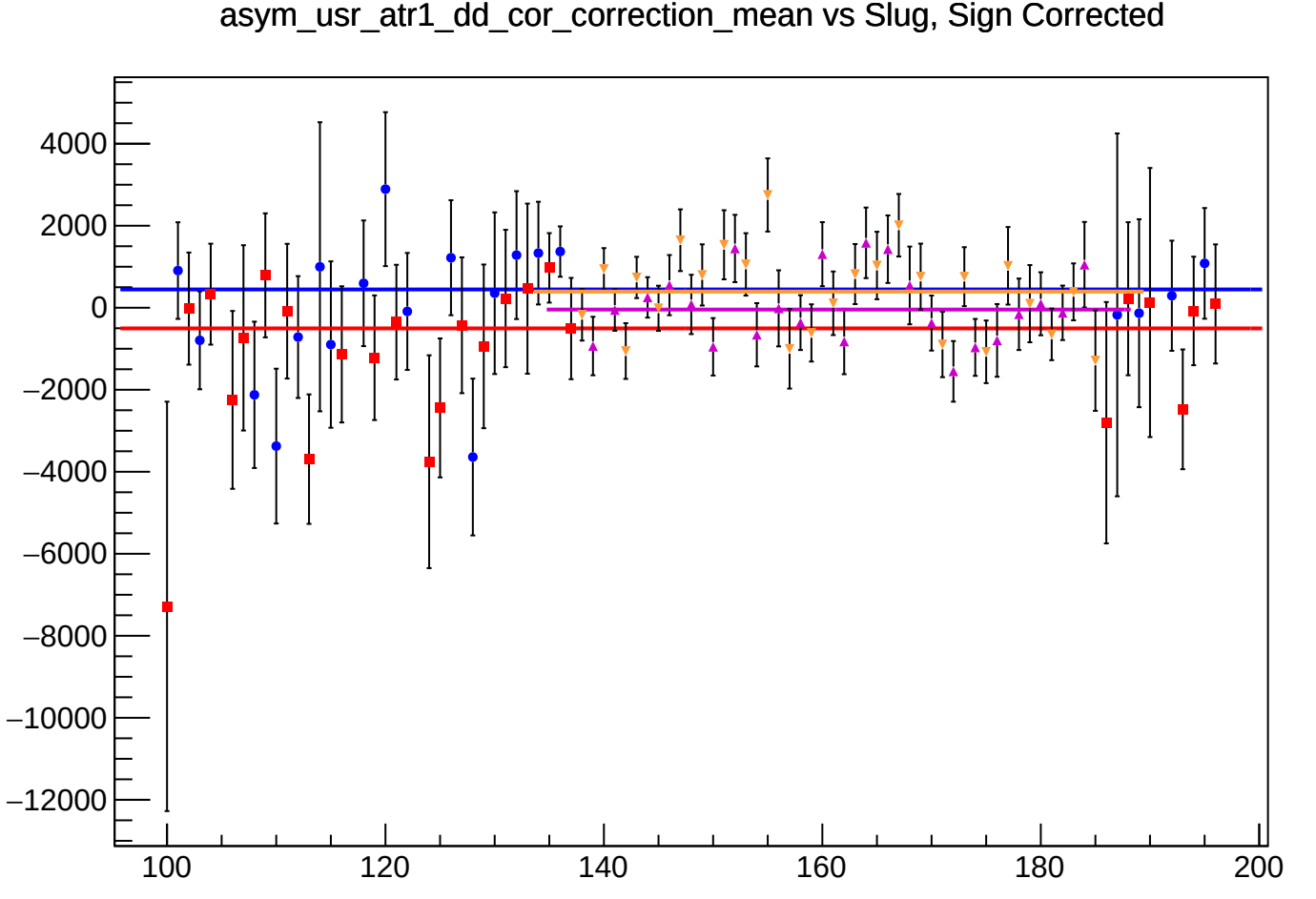
Left: 1321.247+/-0.152 $\chi^2$/NDF: 6167.3/47

Right: 1350.691+/-0.209 $\chi^2$/NDF: 919941.1/44

In: 1330.659+/-0.179 $\chi^2$/NDF:770589.5/42

Out: 1332.144+/-0.170 $\chi^2$/NDF:168453.0/49

All: 1331.439+/-0.123 $\chi^2$/NDF: 939078.8/92




Right In: 446.092+/-315.018 $\chi^2$/NDF: 18.6/19

Left Out: 394.522+/-144.562 $\chi^2$/NDF:41.8/24

Right Out: -503.557+/-317.538 $\chi^2$/NDF: 17.6/24

Left In: -44.766+/-152.332 $\chi^2$/NDF:27.6/22

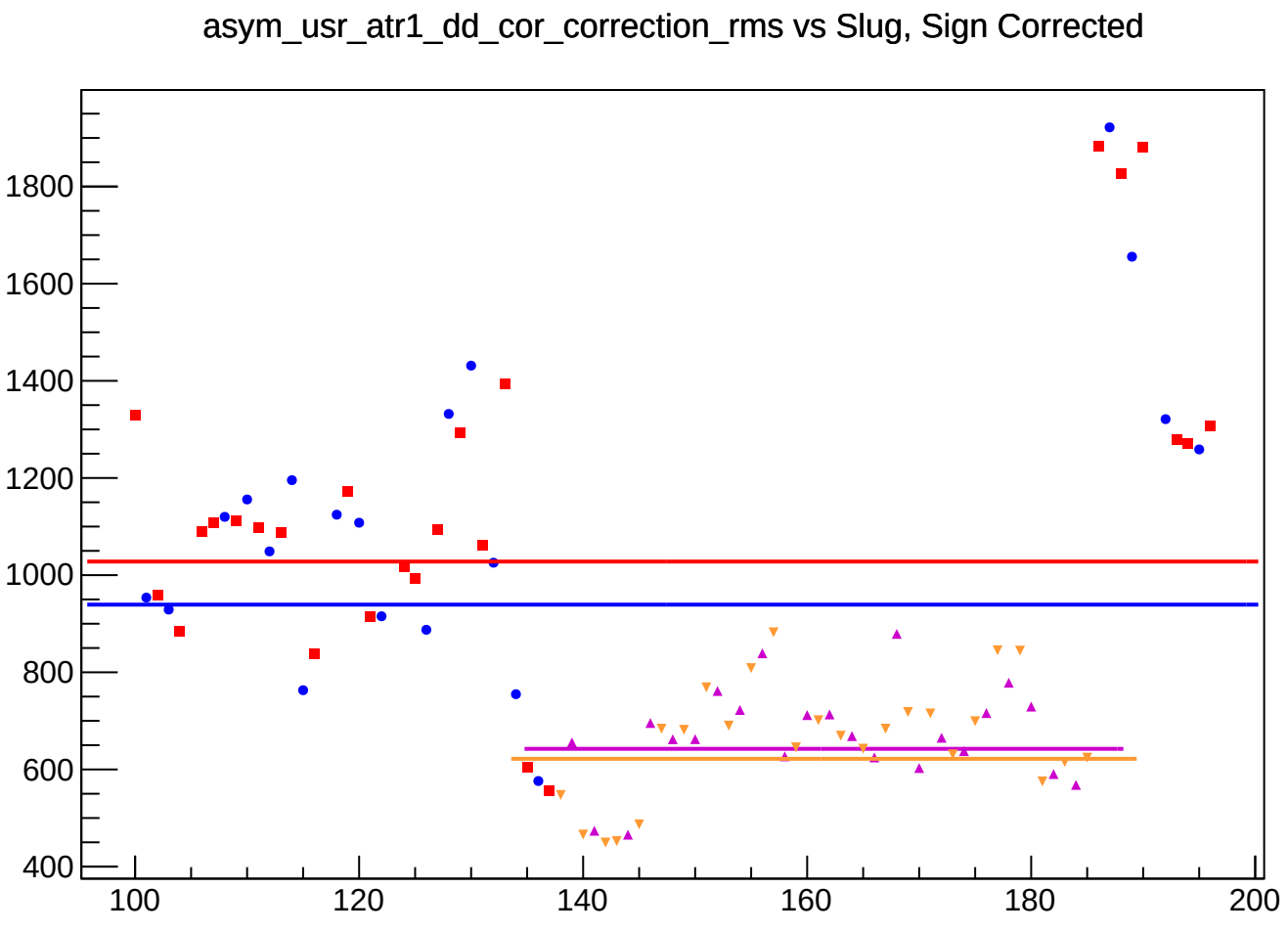
Left: 186.367+/-104.860 $\chi^2$/NDF: 73.8/47

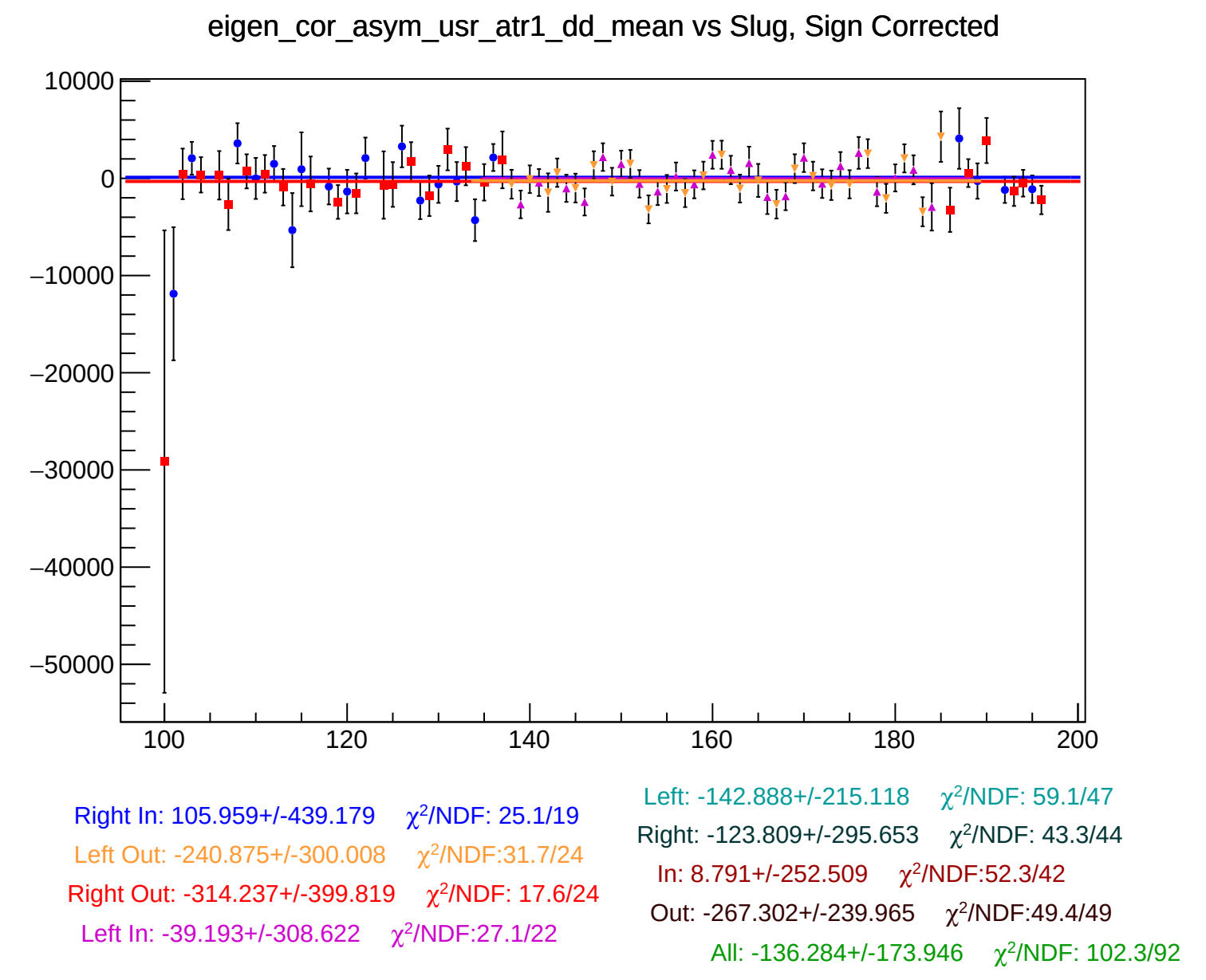
Right: -24.950+/-223.637 $\chi^2$/NDF: 40.7/44

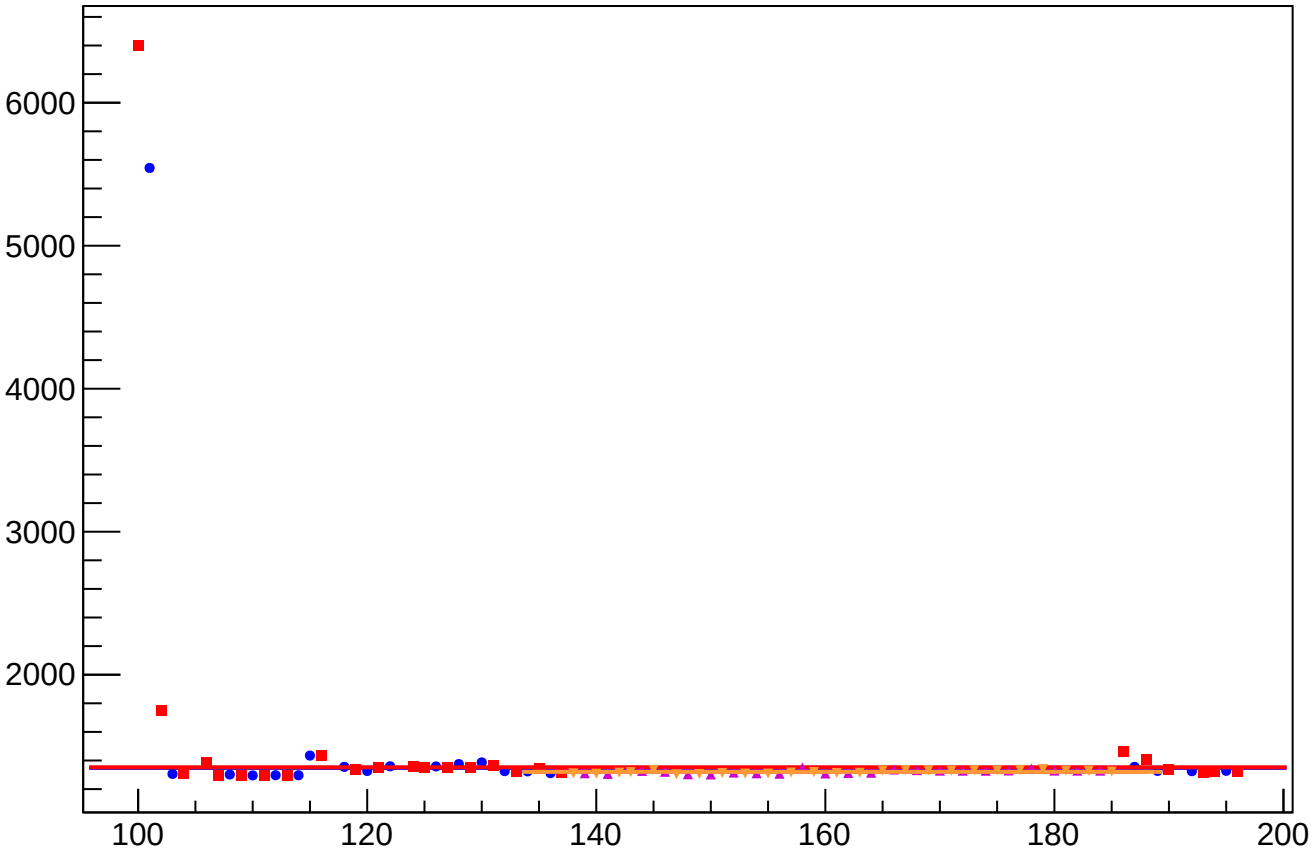
In: 48.261+/-137.139 $\chi^2$/NDF:48.1/42

Out: 240.342+/-131.569 $\chi^2$/NDF:66.1/49

All: 148.281+/-94.941 $\chi^2$/NDF: 115.2/92


asym_usr_atr1_dd_cor_correction_rms vs Slug, Sign Corrected
1800
1600
1400
1200
1000
800
600
400
100
120
140
160
180
200
Right In: 939.287+/-0.223 χ²/NDF: 1657385.2/19
Left Out: 621.950+/-0.102 χ²/NDF:1383373.4/24
Right Out: 1027.969+/-0.225 χ²/NDF: 1877167.6/24
Left In: 642.465+/-0.108 χ²/NDF:926376.1/22
Left: 631.671+/-0.074 χ²/NDF: 2328835.4/47
Right: 983.275+/-0.158 χ²/NDF: 3613171.7/44
In: 698.718+/-0.097 χ²/NDF:4022863.7/42
Out: 691.655+/-0.093 χ²/NDF:5969052.5/49
All: 695.040+/-0.067 χ²/NDF: 9994679.2/92


eigen_cor_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: 105.959+/-439.179 χ²/NDF: 25.1/19
Left Out: -240.875+/-300.008 χ²/NDF:31.7/24
Right Out: -314.237+/-399.819 χ²/NDF: 17.6/24
Left In: -39.193+/-308.622 χ²/NDF:27.1/22
Left: -142.888+/-215.118 χ²/NDF: 59.1/47
Right: -123.809+/-295.653 χ²/NDF: 43.3/44
In: 8.791+/-252.509 χ²/NDF:52.3/42
Out: -267.302+/-239.965 χ²/NDF:49.4/49
All: -136.284+/-173.946 χ²/NDF: 102.3/92




Right In: 1348.633+/-0.311 $\chi^2$/NDF: 762031.8/19

Left Out: 1320.740+/-0.212 $\chi^2$/NDF:2602.3/24

Right Out: 1352.397+/-0.283 $\chi^2$/NDF: 157829.0/24

Left In: 1321.783+/-0.218 $\chi^2$/NDF:3553.3/22

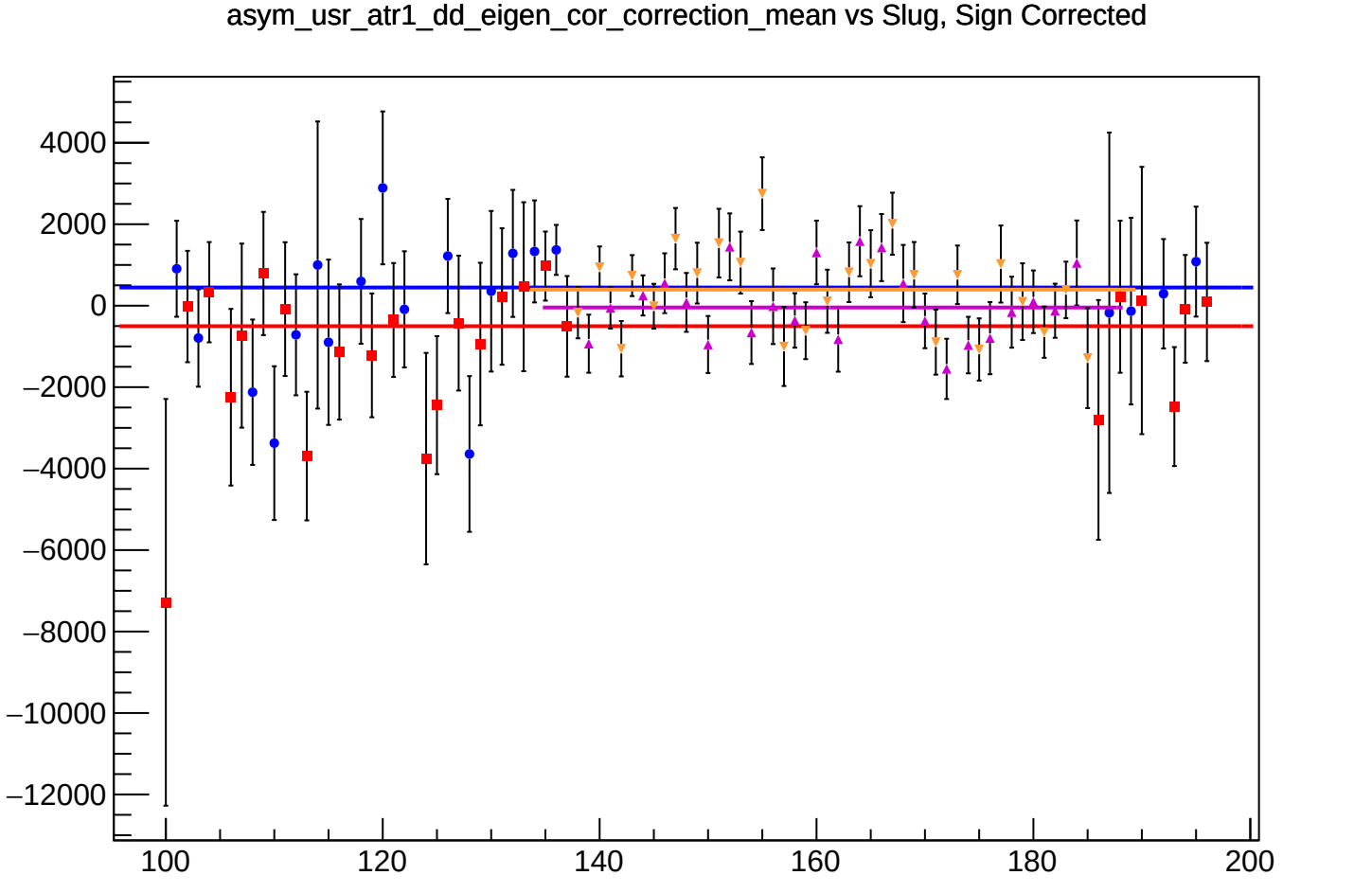
Left: 1321.247+/-0.152 $\chi^2$/NDF: 6167.3/47

Right: 1350.691+/-0.209 $\chi^2$/NDF: 919941.1/44

In: 1330.659+/-0.179 $\chi^2$/NDF:770589.5/42

Out: 1332.144+/-0.170 $\chi^2$/NDF:168453.0/49

All: 1331.439+/-0.123 $\chi^2$/NDF: 939078.8/92




Right In: 446.092+/-315.018 $\chi^2$/NDF: 18.6/19

Left Out: 394.522+/-144.562 $\chi^2$/NDF:41.8/24

Right Out: -503.557+/-317.538 $\chi^2$/NDF: 17.6/24

Left In: -44.766+/-152.332 $\chi^2$/NDF:27.6/22

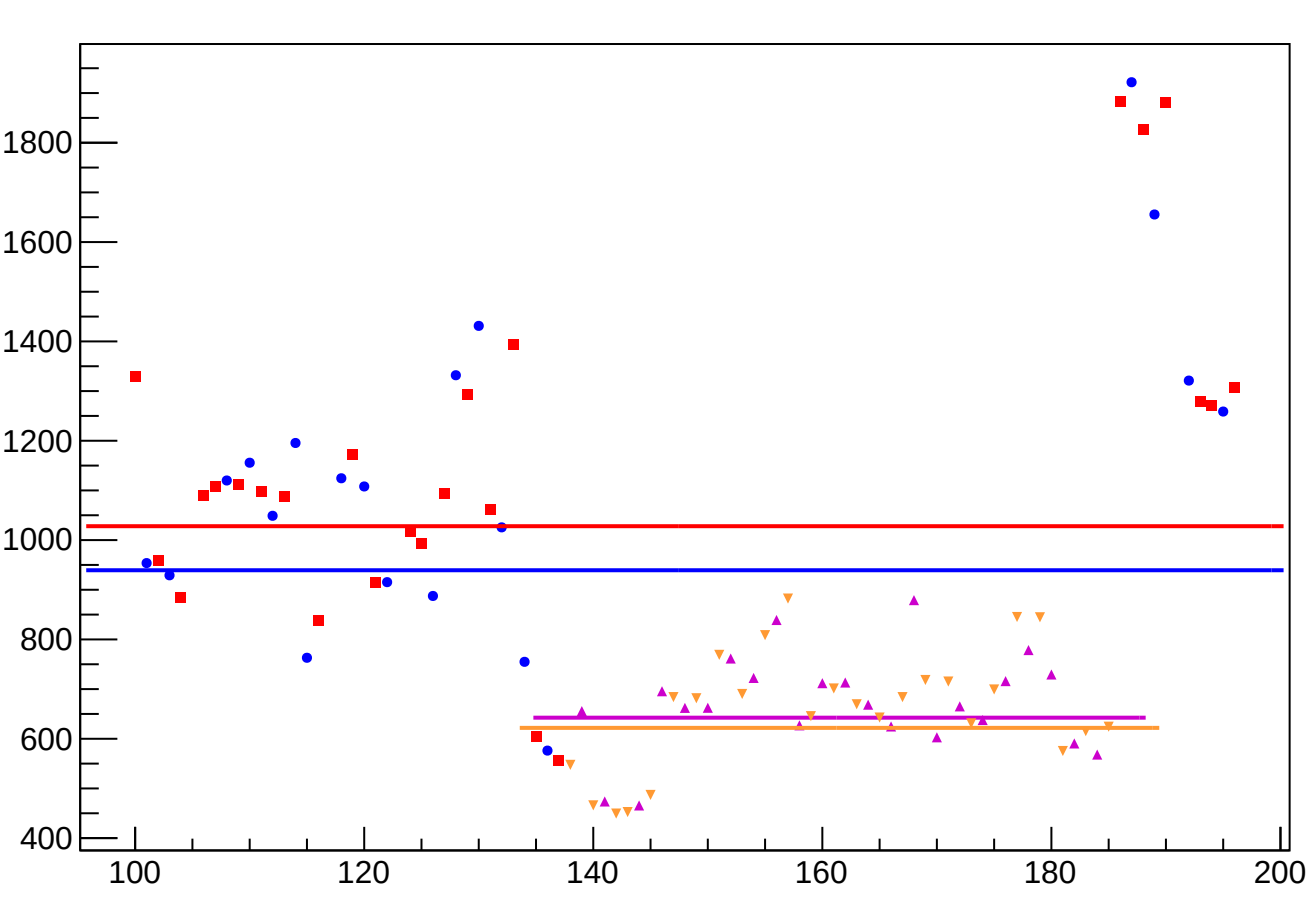
Left: 186.367+/-104.860 $\chi^2$/NDF: 73.8/47

Right: -24.950+/-223.637 $\chi^2$/NDF: 40.7/44

In: 48.261+/-137.139 $\chi^2$/NDF:48.1/42

Out: 240.342+/-131.569 $\chi^2$/NDF:66.1/49

All: 148.281+/-94.941 $\chi^2$/NDF: 115.2/92




Right In: 939.287+/-0.223 $\chi^2$/NDF: 1657385.2/19

Left Out: 621.950+/-0.102 $\chi^2$/NDF:1383373.4/24

Right Out: 1027.969+/-0.225 $\chi^2$/NDF: 1877167.6/24

Left In: 642.465+/-0.108 $\chi^2$/NDF:926376.1/22

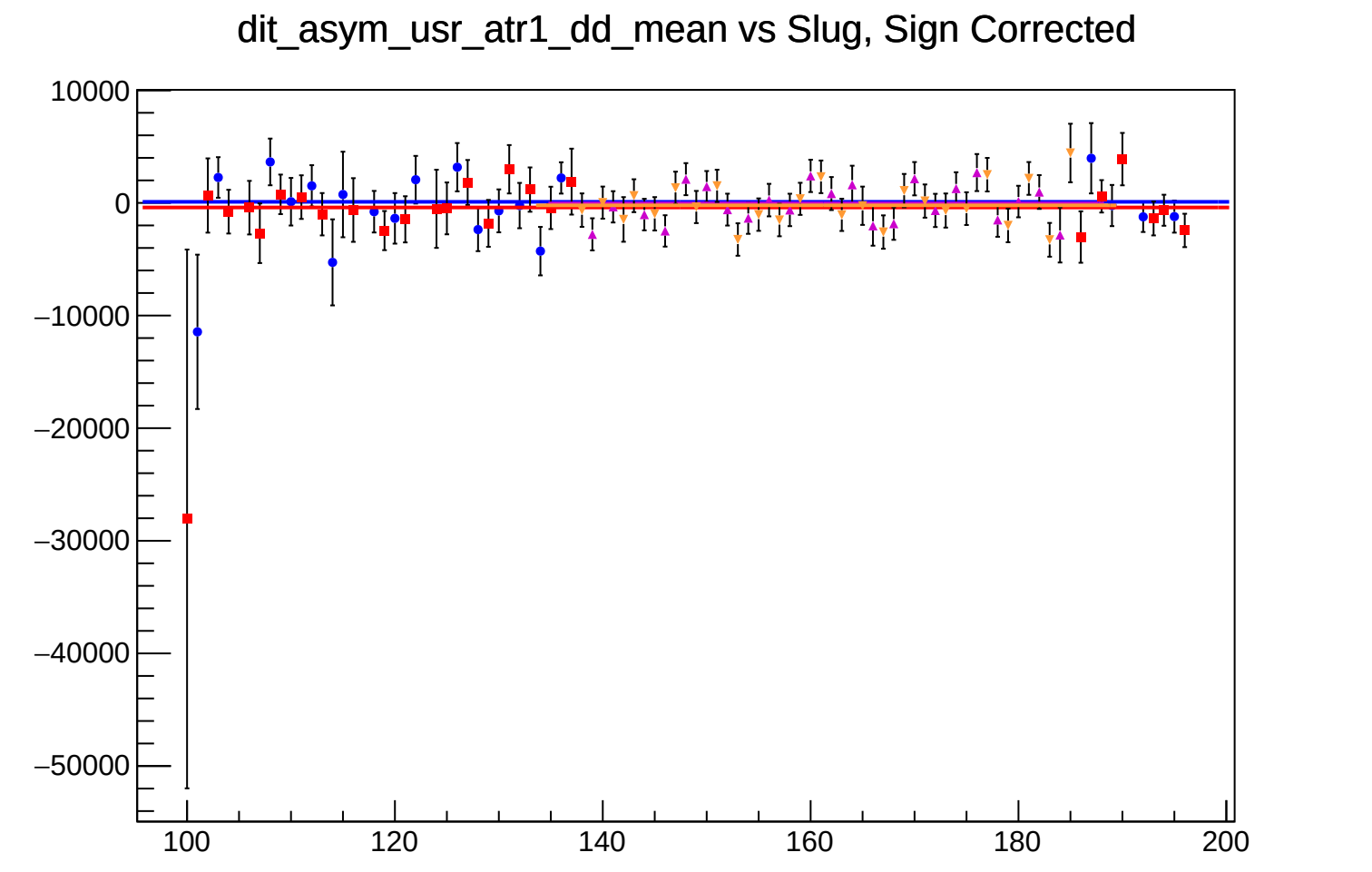
Left: 631.671+/-0.074 $\chi^2$/NDF: 2328835.4/47

Right: 983.275+/-0.158 $\chi^2$/NDF: 3613171.7/44

In: 698.718+/-0.097 $\chi^2$/NDF:4022863.7/42

Out: 691.655+/-0.093 $\chi^2$/NDF:5969052.5/49

All: 695.040+/-0.067 $\chi^2$/NDF: 9994679.2/92




Right In: 95.703+/-441.571 $\chi^2$/NDF: 25.1/19

Left Out: -215.033+/-300.379 $\chi^2$/NDF:31.3/24

Right Out: -404.799+/-402.871 $\chi^2$/NDF: 17.7/24

Left In: -50.244+/-308.986 $\chi^2$/NDF:27.8/22

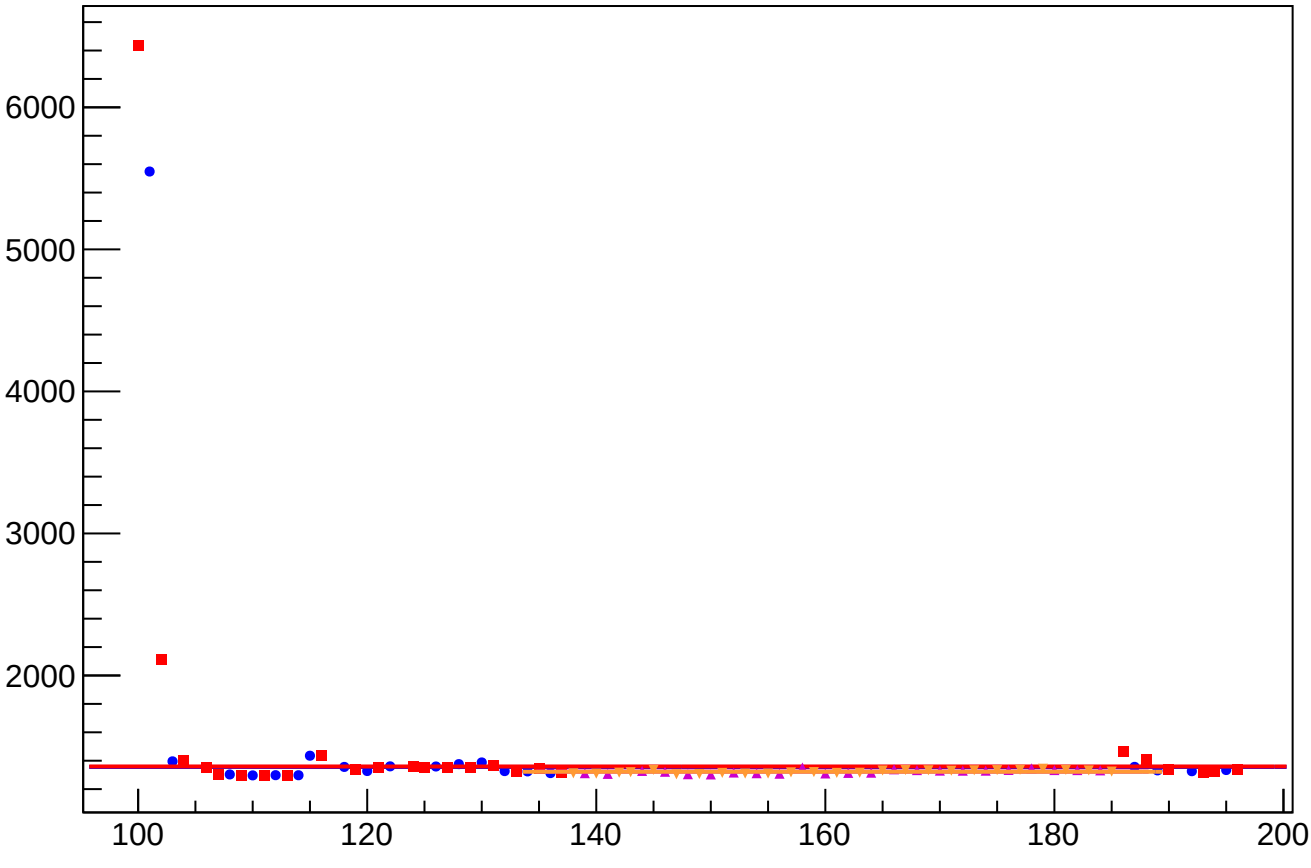
Left: -134.966+/-215.379 $\chi^2$/NDF: 59.2/47

Right: -177.438+/-297.616 $\chi^2$/NDF: 43.5/44

In: -2.272+/-253.162 $\chi^2$/NDF:53.0/42

Out: -282.835+/-240.811 $\chi^2$/NDF:49.1/49

All: -149.564+/-174.482 $\chi^2$/NDF: 102.7/92




Right In: 1356.006+/-0.312 $\chi^2$/NDF: 761368.4/19

Left Out: 1322.369+/-0.212 $\chi^2$/NDF:2931.9/24

Right Out: 1359.329+/-0.285 $\chi^2$/NDF: 215535.7/24

Left In: 1323.337+/-0.218 $\chi^2$/NDF:3856.3/22

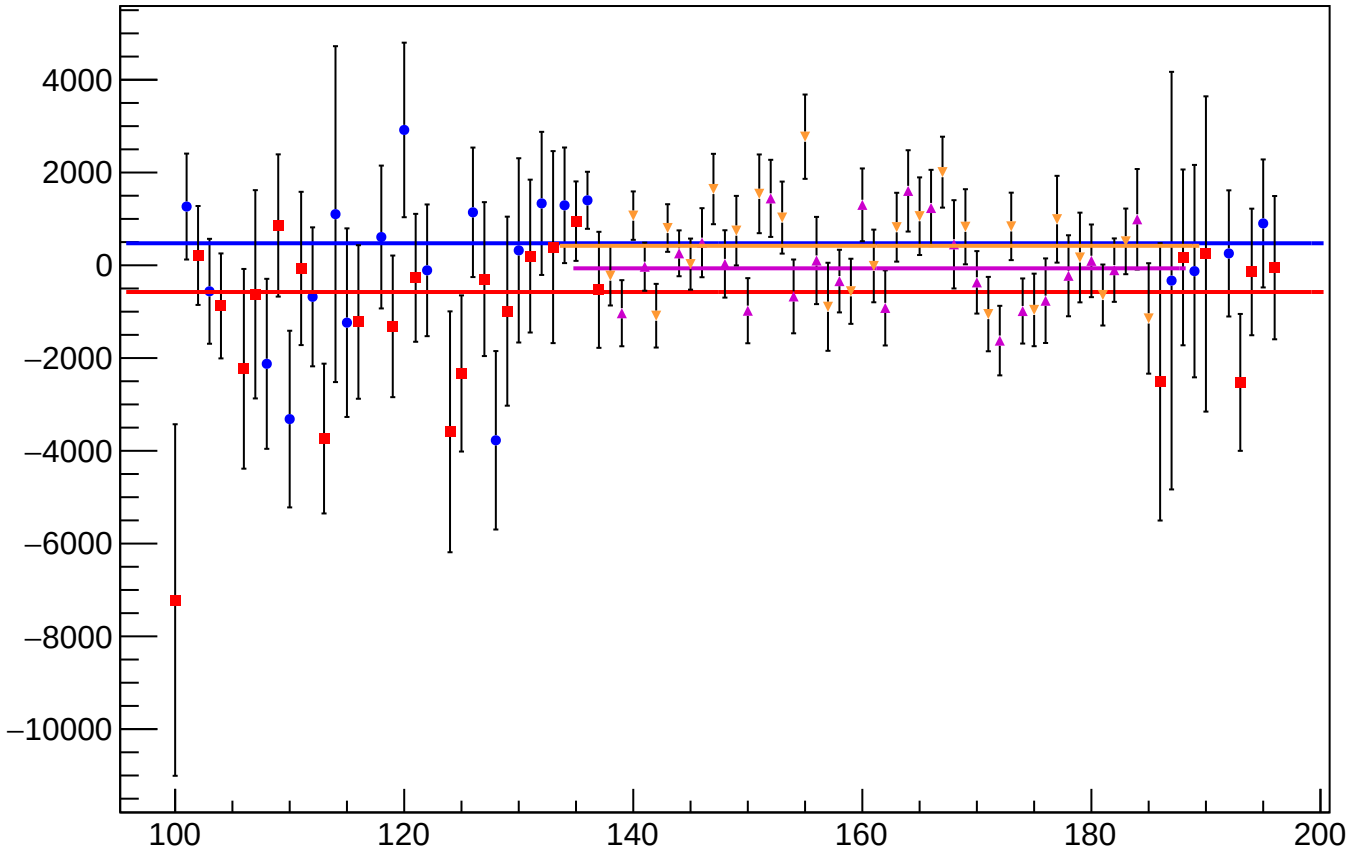
Left: 1322.839+/-0.152 $\chi^2$/NDF: 6798.3/47

Right: 1357.819+/-0.210 $\chi^2$/NDF: 976965.9/44

In: 1334.075+/-0.179 $\chi^2$/NDF:772573.2/42

Out: 1335.574+/-0.170 $\chi^2$/NDF:229286.3/49

All: 1334.862+/-0.123 $\chi^2$/NDF: 1001896.4/92




Right In: 474.954+/-314.096 $\chi^2$/NDF: 18.8/19

Left Out: 419.899+/-146.436 $\chi^2$/NDF:41.5/24

Right Out: -576.087+/-312.495 $\chi^2$/NDF: 18.2/24

Left In: -65.405+/-154.224 $\chi^2$/NDF:27.0/22

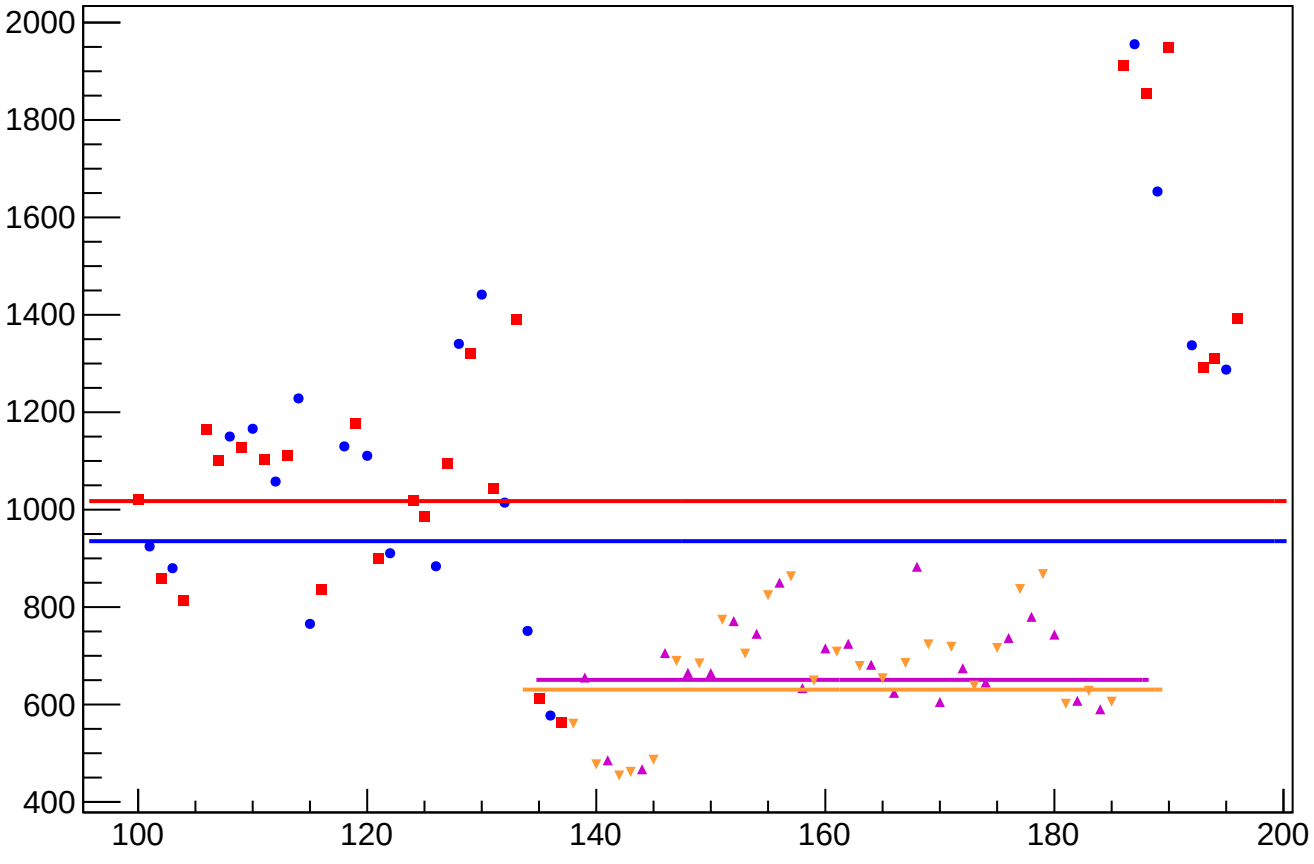
Left: 189.810+/-106.192 $\chi^2$/NDF: 73.8/47

Right: -53.252+/-221.531 $\chi^2$/NDF: 42.7/44

In: 39.564+/-138.437 $\chi^2$/NDF:48.3/42

Out: 240.571+/-132.599 $\chi^2$/NDF:68.1/49

All: 144.394+/-95.759 $\chi^2$/NDF: 117.5/92




Right In: 935.343+/-0.222 $\chi^2$/NDF: 1704468.0/19

Left Out: 630.592+/-0.104 $\chi^2$/NDF:1328590.6/24

Right Out: 1017.635+/-0.221 $\chi^2$/NDF: 2031112.9/24

Left In: 650.637+/-0.109 $\chi^2$/NDF:922078.1/22

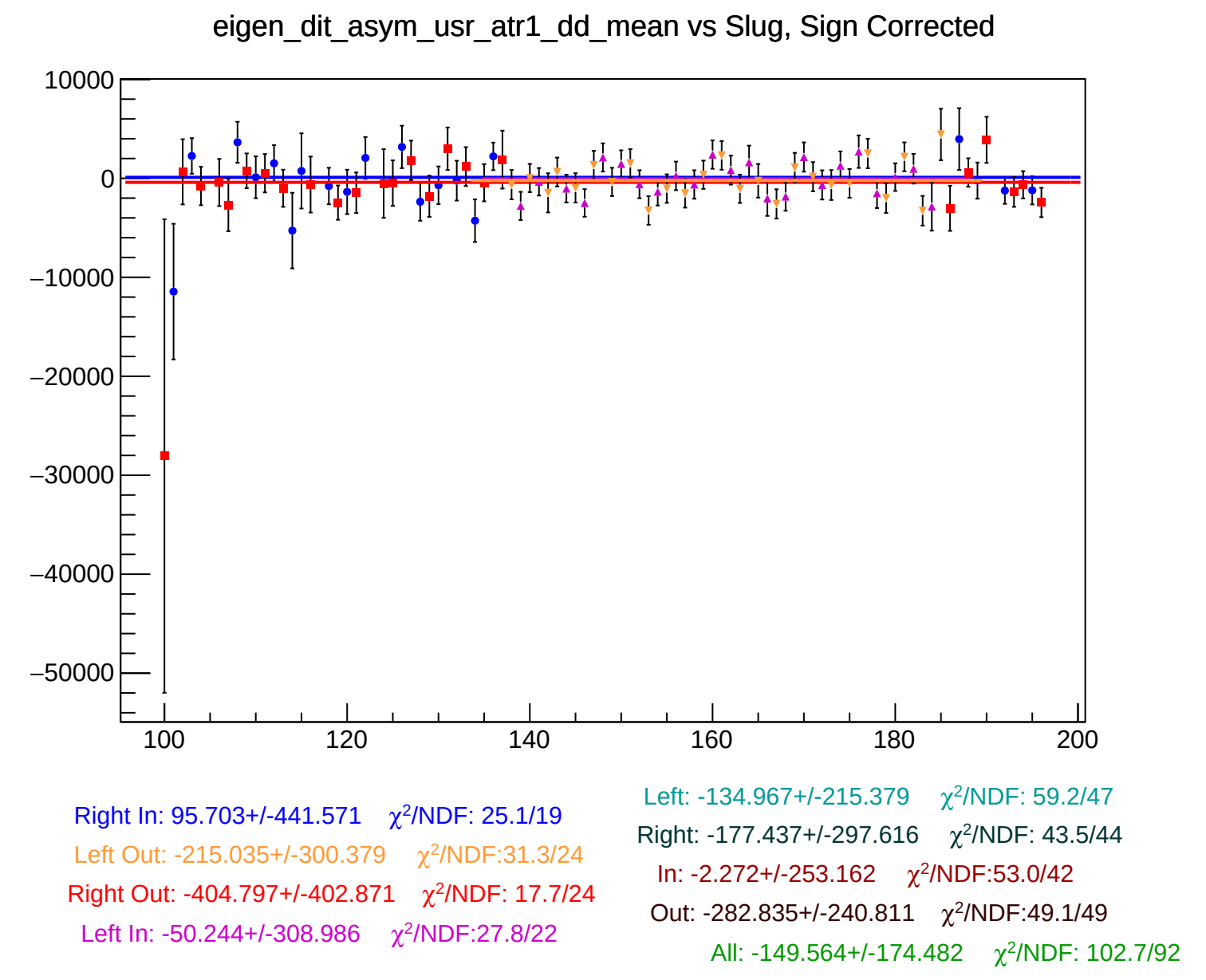
Left: 640.095+/-0.075 $\chi^2$/NDF: 2268436.2/47

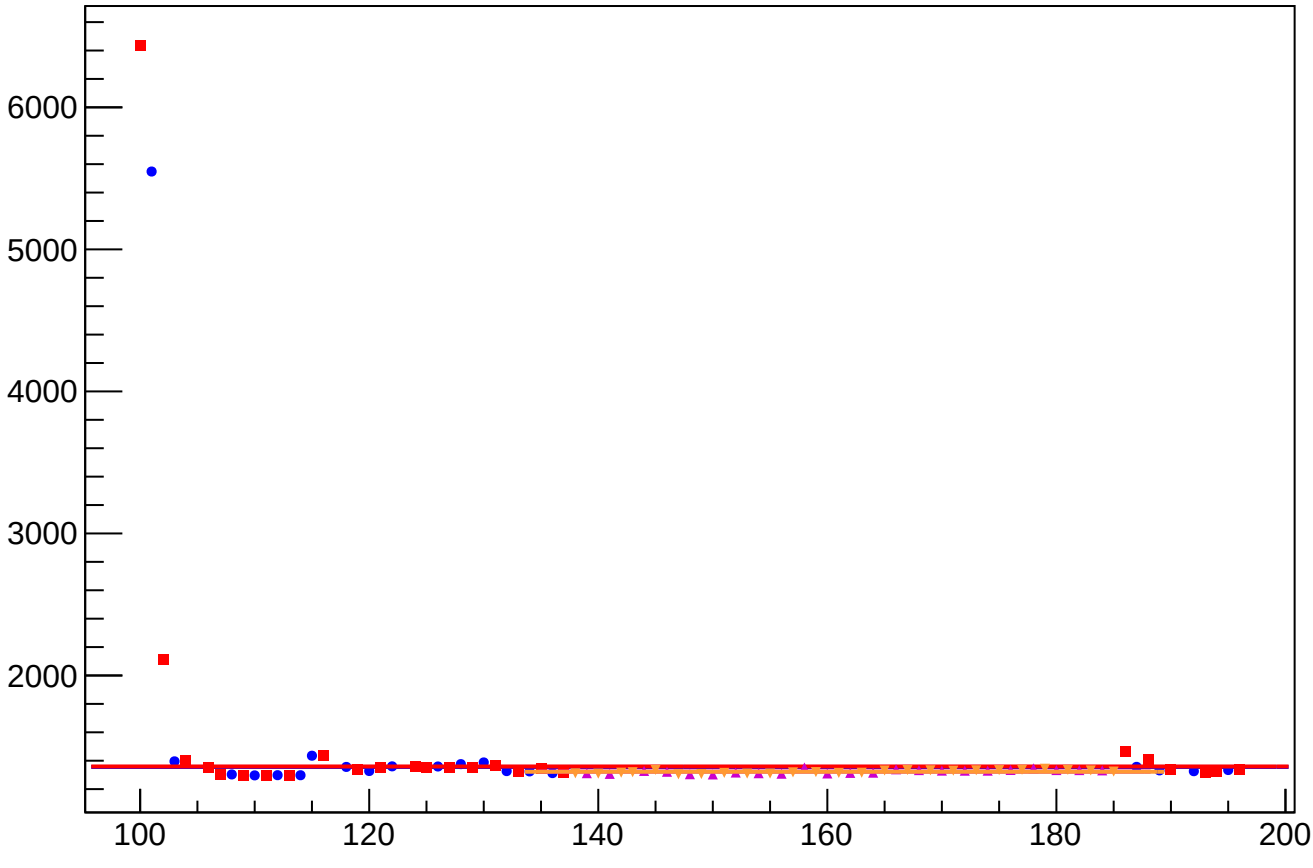
Right: 976.699+/-0.157 $\chi^2$/NDF: 3804574.1/44

In: 705.943+/-0.098 $\chi^2$/NDF:3950568.2/42

Out: 700.279+/-0.094 $\chi^2$/NDF:5875351.5/49

All: 702.989+/-0.068 $\chi^2$/NDF: 9827665.6/92


eigen_dit_asym_usr_atr1_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: 95.703+/-441.571 χ²/NDF: 25.1/19
Left Out: -215.035+/-300.379 χ²/NDF:31.3/24
Right Out: -404.797+/-402.871 χ²/NDF: 17.7/24
Left In: -50.244+/-308.986 χ²/NDF:27.8/22
Left: -134.967+/-215.379 χ²/NDF: 59.2/47
Right: -177.437+/-297.616 χ²/NDF: 43.5/44
In: -2.272+/-253.162 χ²/NDF:53.0/42
Out: -282.835+/-240.811 χ²/NDF:49.1/49
All: -149.564+/-174.482 χ²/NDF: 102.7/92




Right In: 1356.006+/-0.312 $\chi^2$/NDF: 761368.4/19

Left Out: 1322.369+/-0.212 $\chi^2$/NDF:2931.9/24

Right Out: 1359.329+/-0.285 $\chi^2$/NDF: 215535.6/24

Left In: 1323.337+/-0.218 $\chi^2$/NDF:3856.3/22

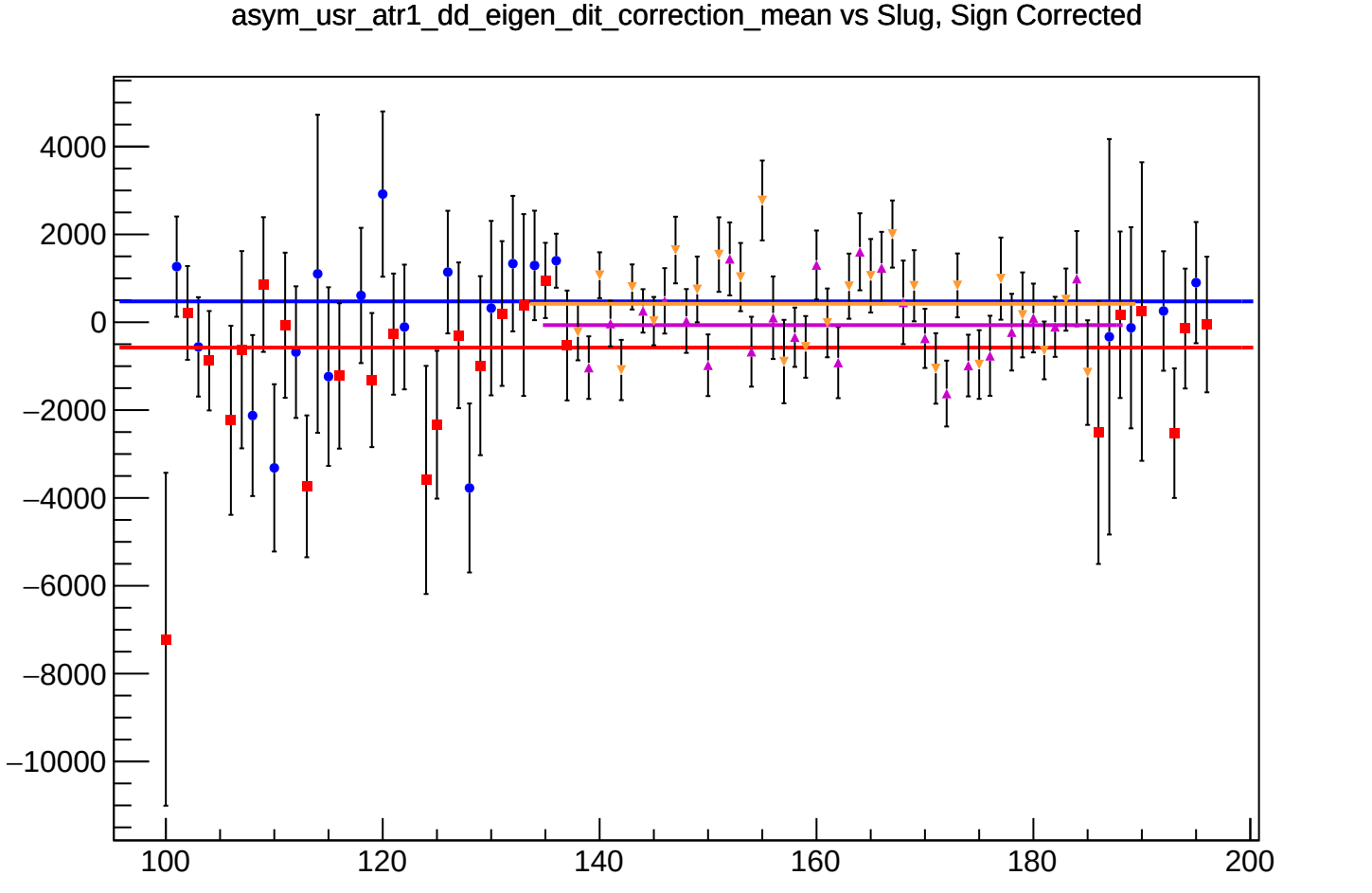
Left: 1322.839+/-0.152 $\chi^2$/NDF: 6798.3/47

Right: 1357.819+/-0.210 $\chi^2$/NDF: 976965.8/44

In: 1334.075+/-0.179 $\chi^2$/NDF:772573.2/42

Out: 1335.574+/-0.170 $\chi^2$/NDF:229286.3/49

All: 1334.862+/-0.123 $\chi^2$/NDF: 1001896.3/92




Right In: 474.952+/-314.095 $\chi^2$/NDF: 18.8/19

Left Out: 419.899+/-146.436 $\chi^2$/NDF:41.5/24

Right Out: -576.086+/-312.494 $\chi^2$/NDF: 18.2/24

Left In: -65.405+/-154.225 $\chi^2$/NDF:27.0/22

Left: 189.810+/-106.193 $\chi^2$/NDF: 73.8/47

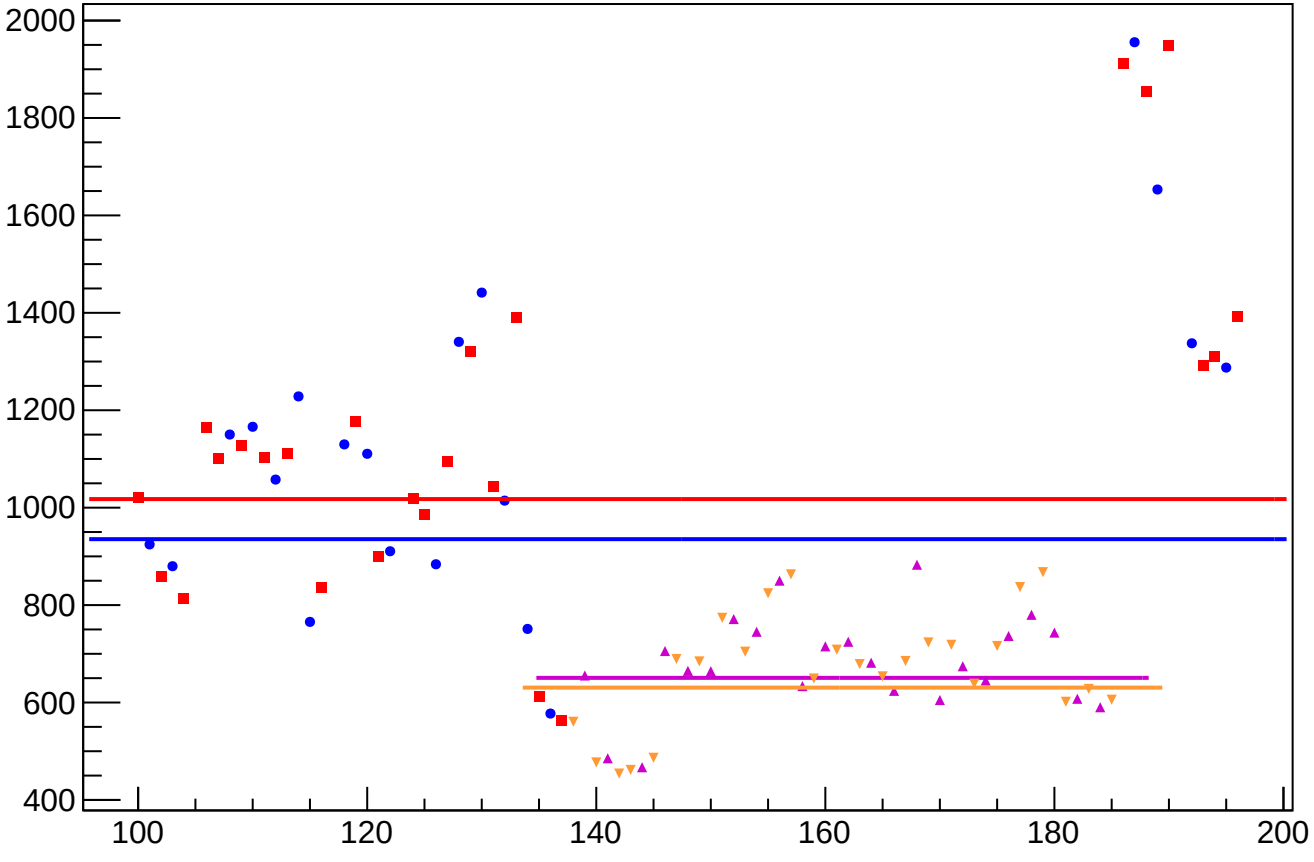
Right: -53.252+/-221.531 $\chi^2$/NDF: 42.7/44

In: 39.564+/-138.437 $\chi^2$/NDF:48.3/42

Out: 240.570+/-132.599 $\chi^2$/NDF:68.1/49

All: 144.394+/-95.759 $\chi^2$/NDF: 117.5/92

asym_usr_atr1_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 935.340+/-0.222 $\chi^2$/NDF: 1704469.5/19

Left Out: 630.592+/-0.104 $\chi^2$/NDF:1328610.2/24

Right Out: 1017.633+/-0.221 $\chi^2$/NDF: 2031114.5/24

Left In: 650.638+/-0.109 $\chi^2$/NDF:922087.6/22

Left: 640.096+/-0.075 $\chi^2$/NDF: 2268466.1/47

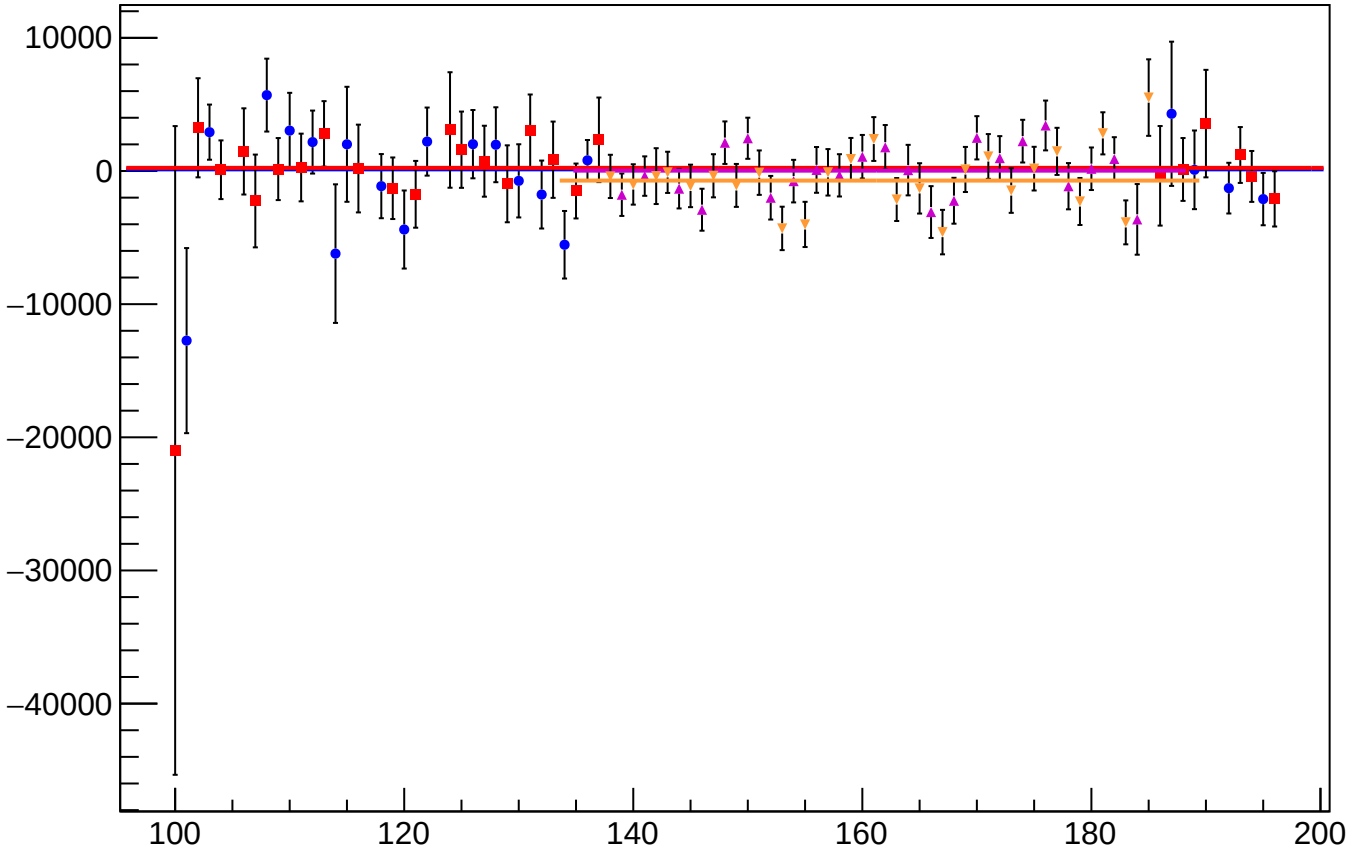
Right: 976.697+/-0.157 $\chi^2$/NDF: 3804578.4/44

In: 705.944+/-0.098 $\chi^2$/NDF:3950550.6/42

Out: 700.280+/-0.094 $\chi^2$/NDF:5875346.4/49

All: 702.990+/-0.068 $\chi^2$/NDF: 9827643.1/92

# asym_usr_atr1_dd_mean vs Slug, Sign Corrected




Right In: 124.476+/-572.082 $\chi^2$/NDF: 25.4/19

Left Out: -718.291+/-337.578 $\chi^2$/NDF:37.7/24

Right Out: 236.954+/-536.671 $\chi^2$/NDF: 9.6/24

Left In: 27.514+/-347.415 $\chi^2$/NDF:28.0/22

Left: -356.097+/-242.106 $\chi^2$/NDF: 68.1/47

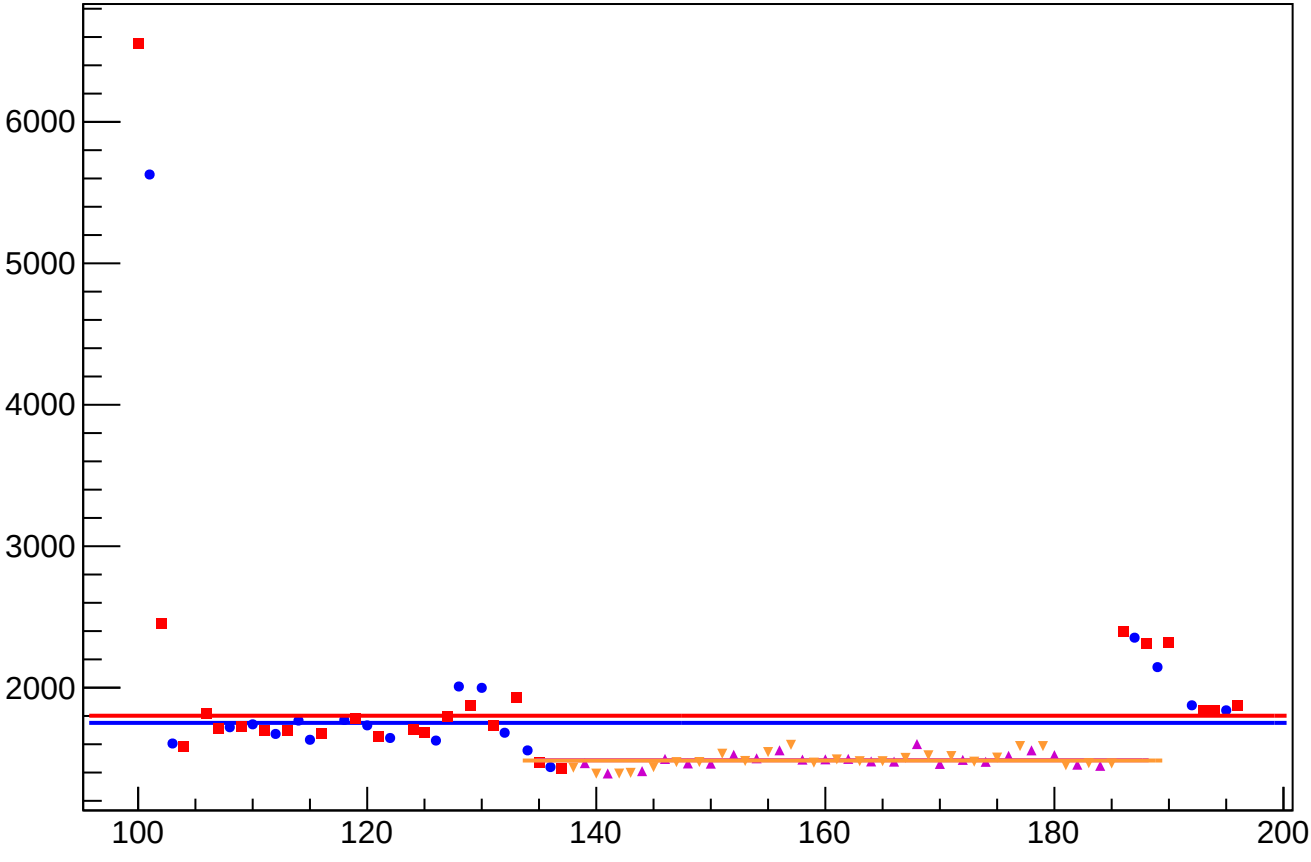
Right: 184.303+/-391.404 $\chi^2$/NDF: 35.0/44

In: 53.638+/-296.948 $\chi^2$/NDF:53.4/42

Out: -447.482+/-285.748 $\chi^2$/NDF:49.6/49

All: -206.550+/-205.900 $\chi^2$/NDF: 104.5/92

# asym_usr_atr1_dd_rms vs Slug, Sign Corrected




Right In: 1751.141+/-0.405 $\chi^2$/NDF: 847772.1/19

Left Out: 1484.960+/-0.239 $\chi^2$/NDF:50905.1/24

Right Out: 1801.683+/-0.379 $\chi^2$/NDF: 447721.5/24

Left In: 1487.112+/-0.246 $\chi^2$/NDF:34817.2/22

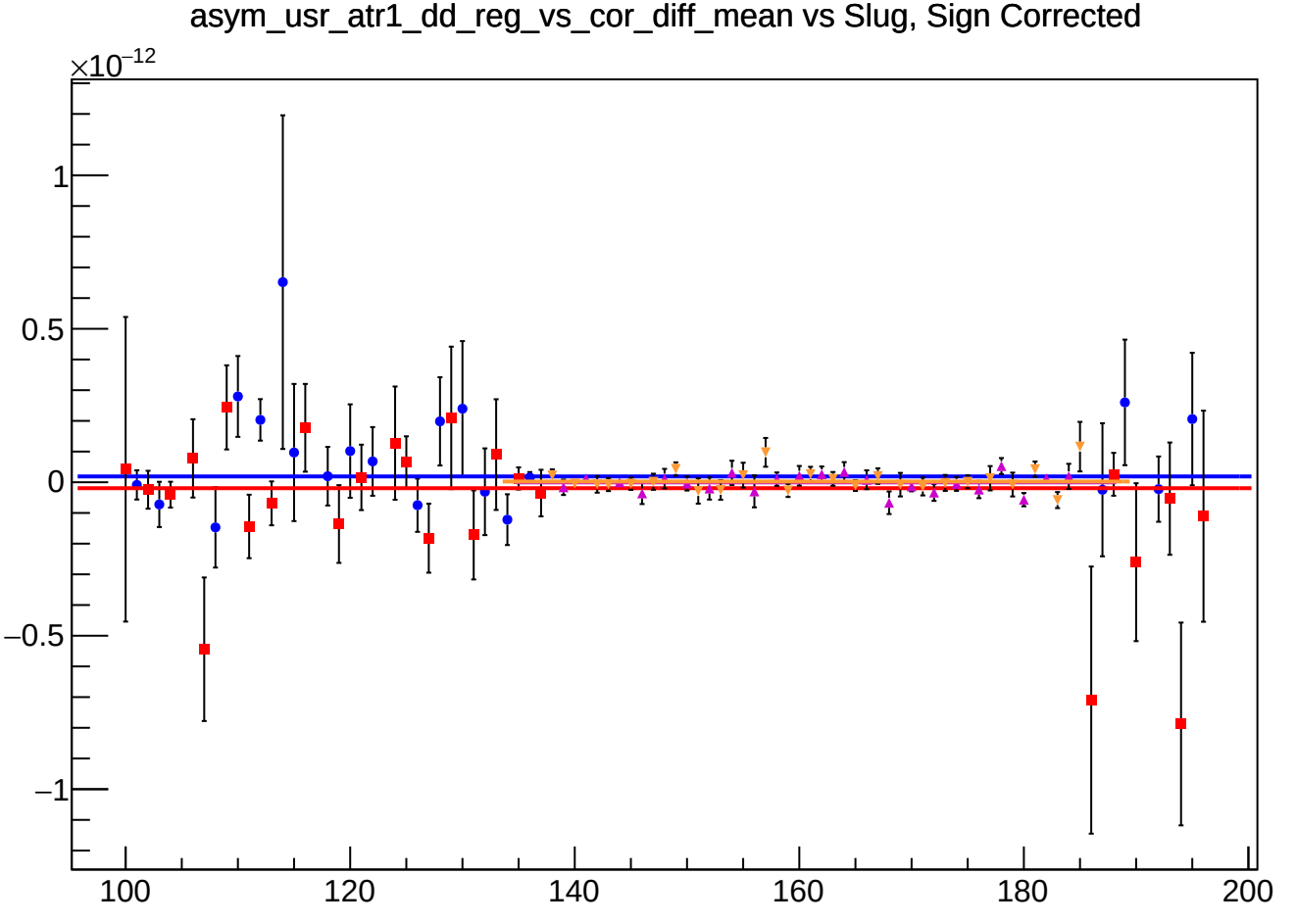
Left: 1486.005+/-0.171 $\chi^2$/NDF: 85761.8/47

Right: 1778.025+/-0.277 $\chi^2$/NDF: 1303797.0/44

In: 1558.249+/-0.210 $\chi^2$/NDF:1193817.3/42

Out: 1574.751+/-0.202 $\chi^2$/NDF:997731.6/49

All: 1566.817+/-0.146 $\chi^2$/NDF: 2194755.6/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.7/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.9/22

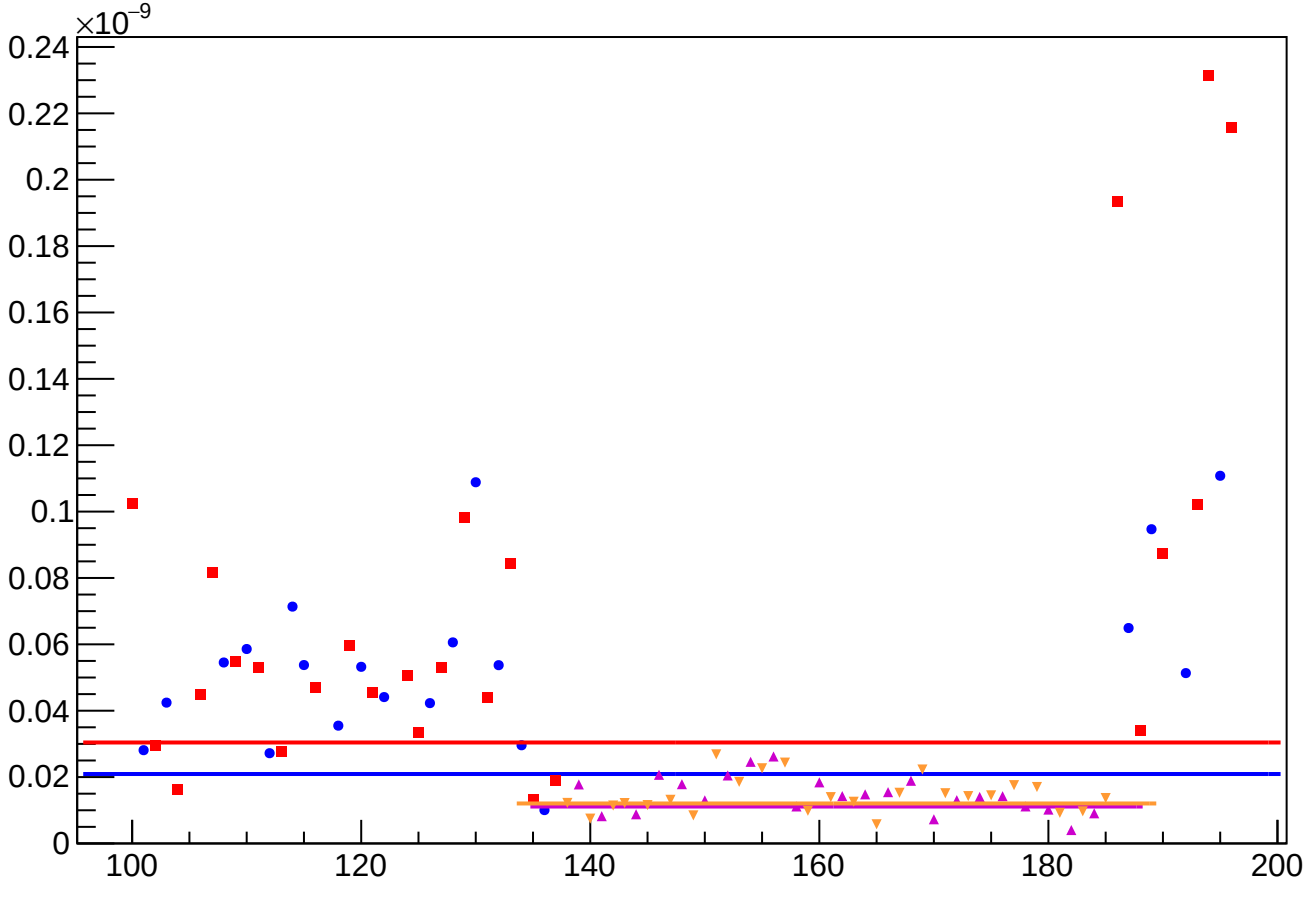
Left: 0.000+/-0.000 $\chi^2$/NDF: 50.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 59.3/44

In: 0.000+/-0.000 $\chi^2$/NDF:52.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.4/49

All: 0.000+/-0.000 $\chi^2$/NDF: 109.9/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3148703.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1520224.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3709665.4/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:2209676.2/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3765014.8/47

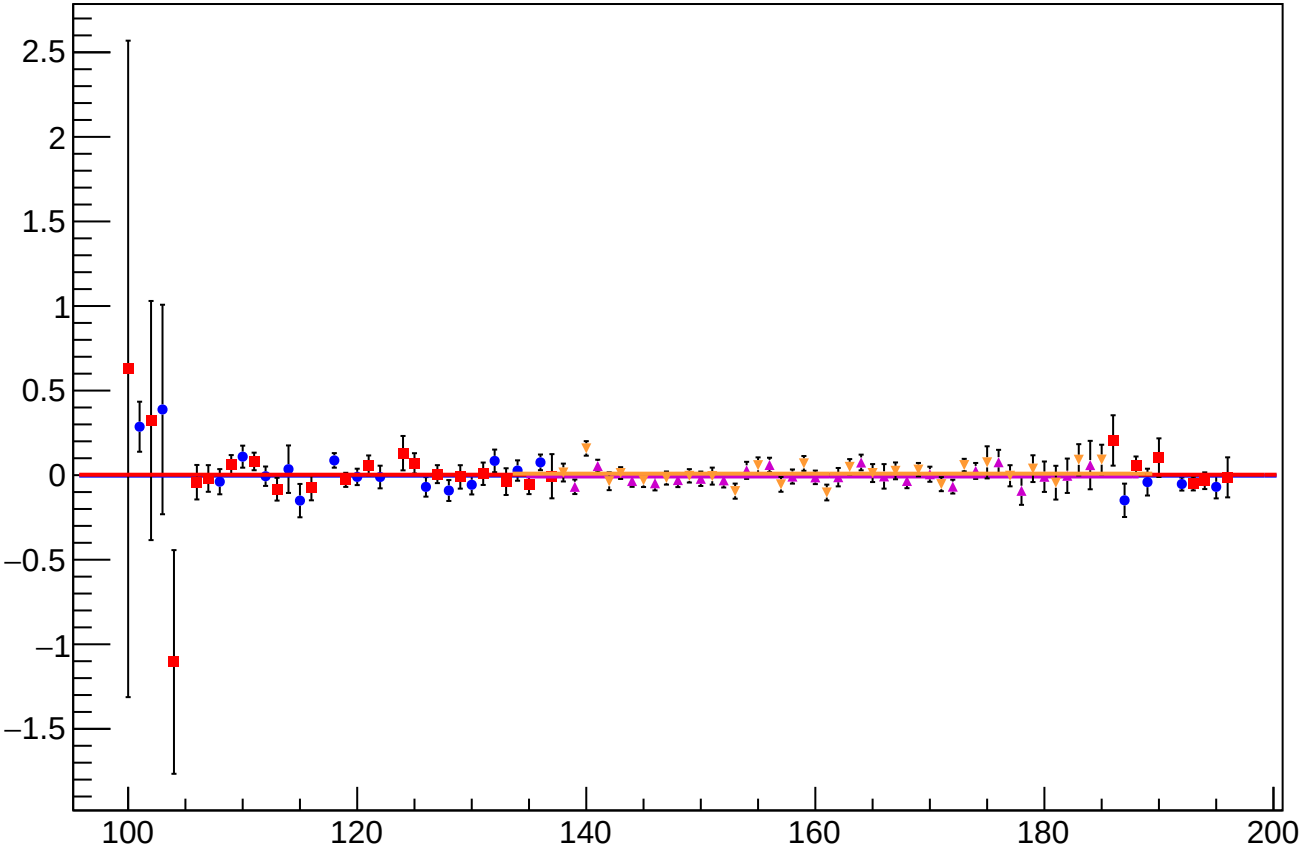
Right: 0.000+/-0.000 $\chi^2$/NDF: 7197511.1/44

In: 0.000+/-0.000 $\chi^2$/NDF:6216951.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7123716.2/49

All: 0.000+/-0.000 $\chi^2$/NDF: 13401857.6/92

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.003+/-0.014 $\chi^2$/NDF: 28.2/19

Left Out: 0.009+/-0.010 $\chi^2$/NDF:38.6/24

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 21.0/24

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.9/22

Left: 0.001+/-0.007 $\chi^2$/NDF: 59.0/47

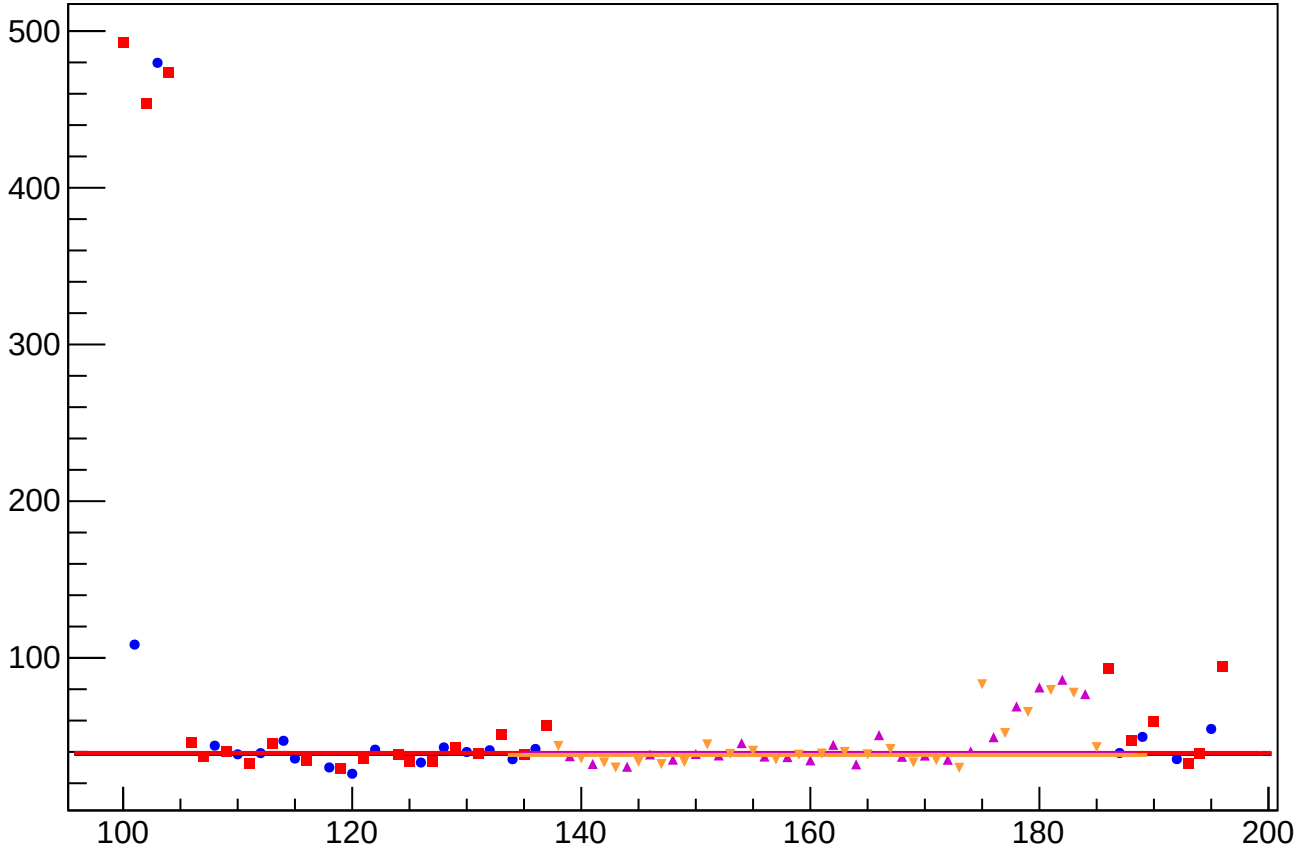
Right: -0.000+/-0.010 $\chi^2$/NDF: 49.3/44

In: -0.006+/-0.008 $\chi^2$/NDF:47.2/42

Out: 0.007+/-0.008 $\chi^2$/NDF:59.7/49

All: 0.000+/-0.006 $\chi^2$/NDF: 108.3/92

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.703+/-0.010 $\chi^2$/NDF: 1906028.8/19

Left Out: 38.067+/-0.007 $\chi^2$/NDF:1967115.3/24

Right Out: 39.372+/-0.010 $\chi^2$/NDF: 2835045.6/24

Left In: 38.630+/-0.007 $\chi^2$/NDF:1727664.7/22

Left: 38.339+/-0.005 $\chi^2$/NDF: 3698113.4/47

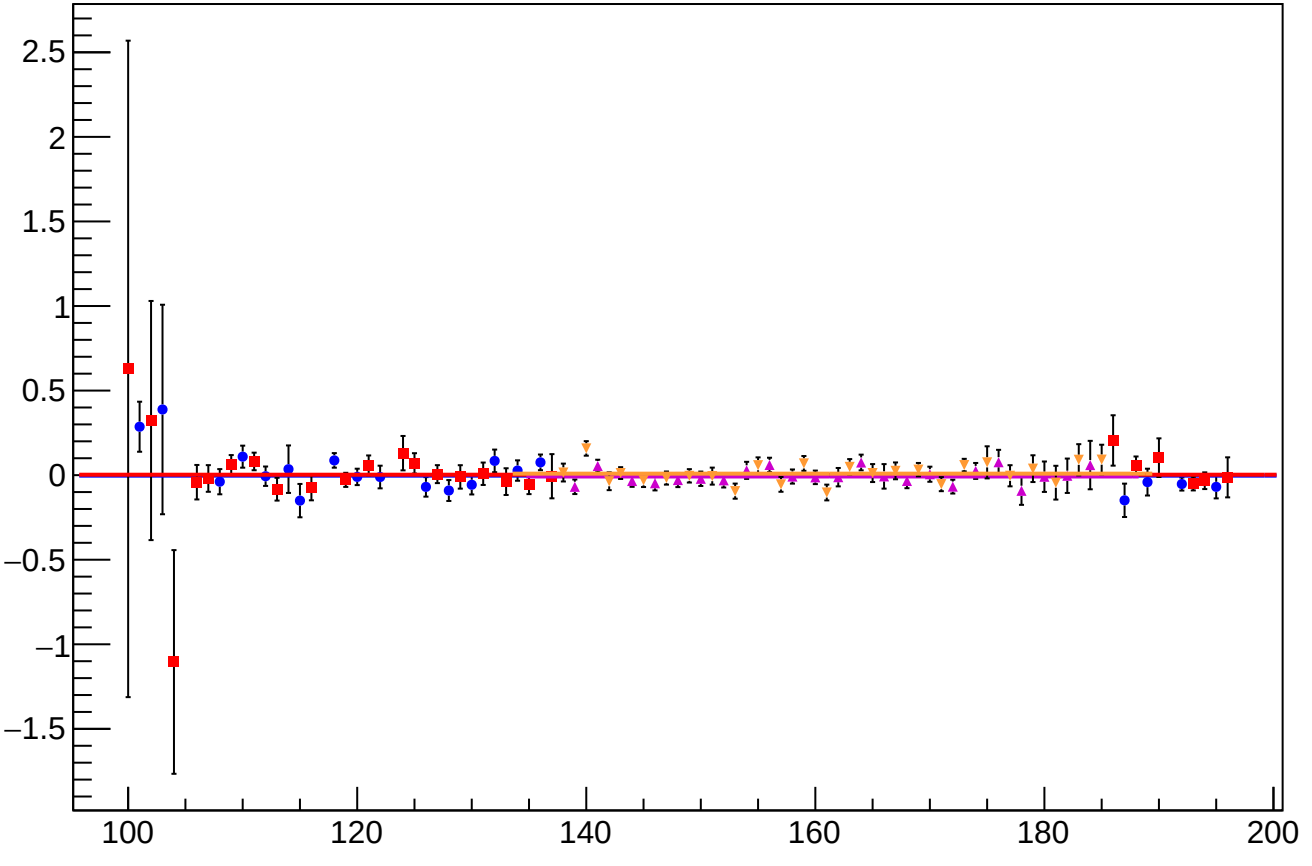
Right: 39.051+/-0.007 $\chi^2$/NDF: 4743434.7/44

In: 38.654+/-0.006 $\chi^2$/NDF:3633730.2/42

Out: 38.504+/-0.006 $\chi^2$/NDF:4814597.0/49

All: 38.576+/-0.004 $\chi^2$/NDF: 8448686.5/92

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.003+/-0.014 $\chi^2$/NDF: 28.2/19

Left Out: 0.009+/-0.010 $\chi^2$/NDF:38.6/24

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 21.0/24

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.9/22

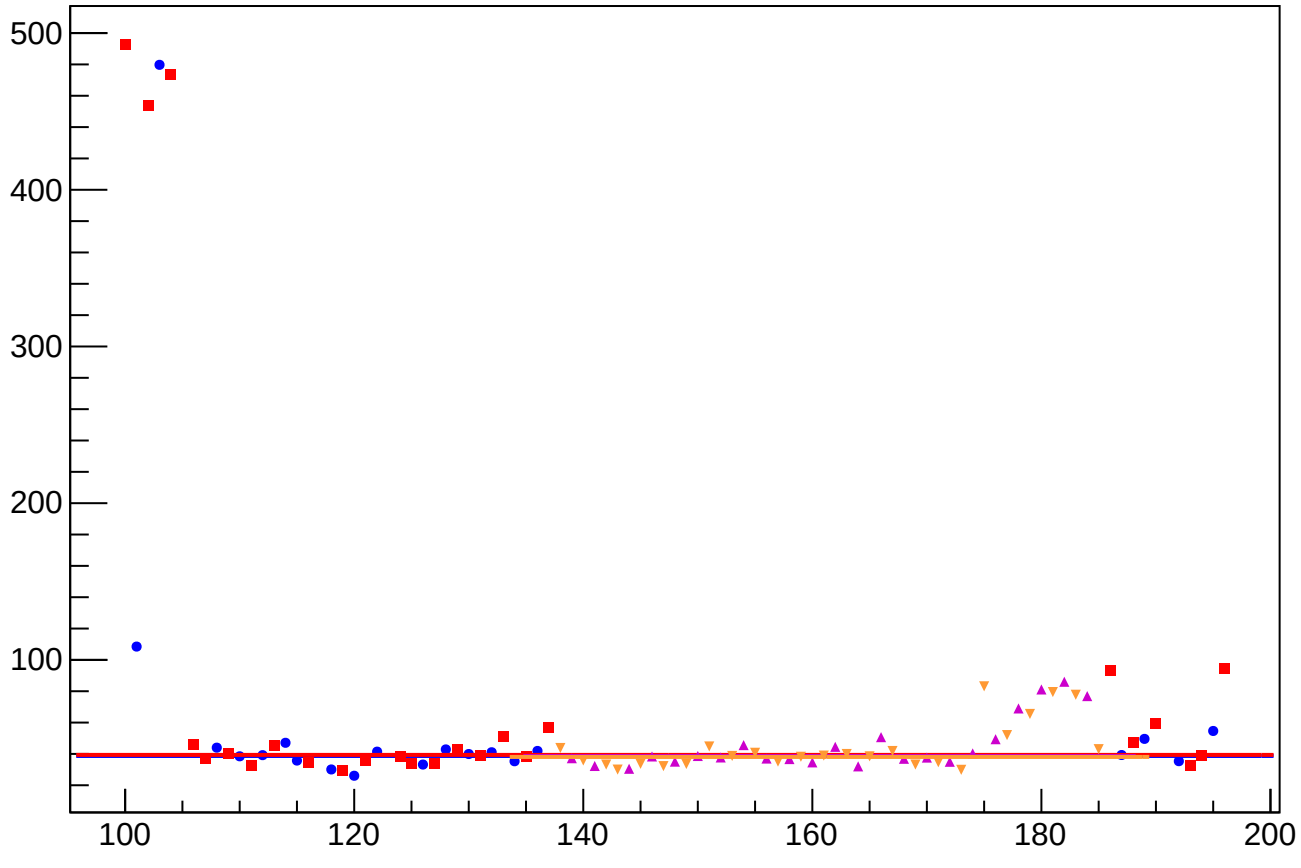
Left: 0.001+/-0.007 $\chi^2$/NDF: 59.0/47

Right: -0.000+/-0.010 $\chi^2$/NDF: 49.3/44

In: -0.006+/-0.008 $\chi^2$/NDF:47.2/42

Out: 0.007+/-0.008 $\chi^2$/NDF:59.7/49

All: 0.000+/-0.006 $\chi^2$/NDF: 108.3/92




Right In: 38.703+/-0.010 $\chi^2$/NDF: 1906028.8/19

Left Out: 38.067+/-0.007 $\chi^2$/NDF:1967115.3/24

Right Out: 39.372+/-0.010 $\chi^2$/NDF: 2835045.6/24

Left In: 38.630+/-0.007 $\chi^2$/NDF:1727664.7/22

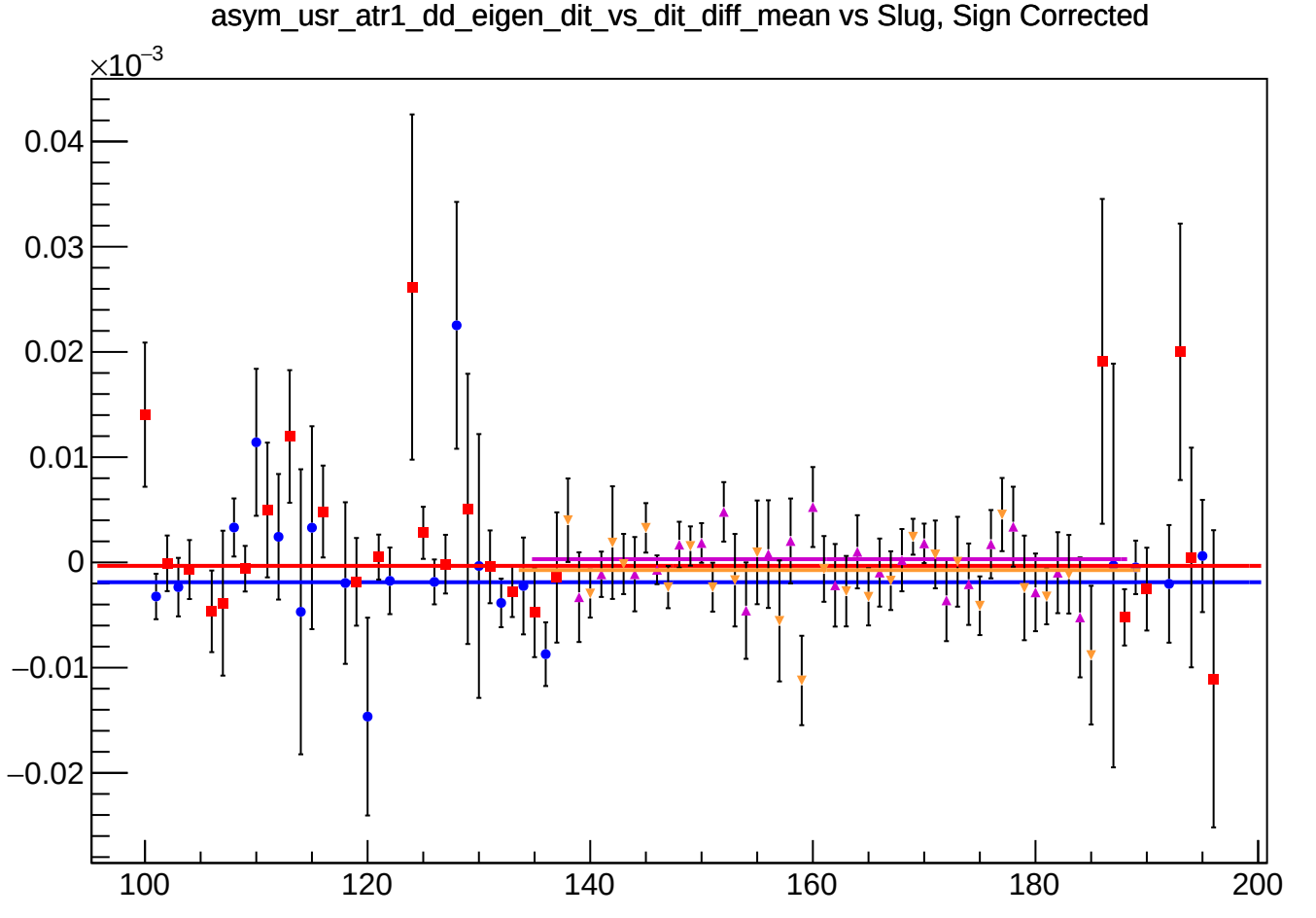
Left: 38.339+/-0.005 $\chi^2$/NDF: 3698113.4/47

Right: 39.051+/-0.007 $\chi^2$/NDF: 4743434.7/44

In: 38.654+/-0.006 $\chi^2$/NDF:3633730.2/42

Out: 38.504+/-0.006 $\chi^2$/NDF:4814597.0/49

All: 38.576+/-0.004 $\chi^2$/NDF: 8448686.5/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.8/22

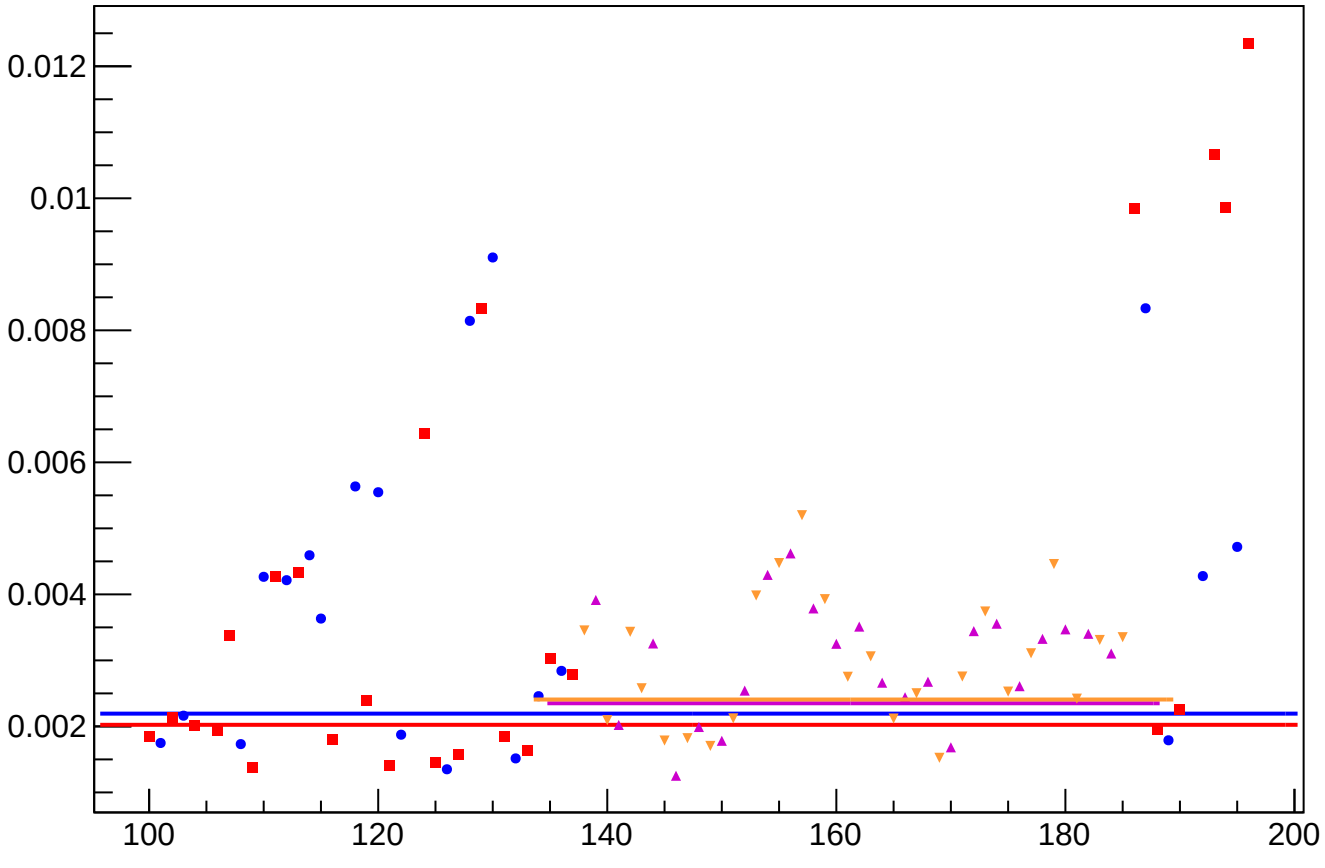
Left: -0.000+/-0.000 $\chi^2$/NDF: 41.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 50.3/44

In: -0.000+/-0.000 $\chi^2$/NDF:39.4/42

Out: -0.000+/-0.000 $\chi^2$/NDF:54.0/49

All: -0.000+/-0.000 $\chi^2$/NDF: 93.5/92




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4019255.7/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3682960.0/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5676470.0/24

Left In: 0.002+/-0.000 $\chi^2$/NDF:4438139.5/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 8130379.7/47

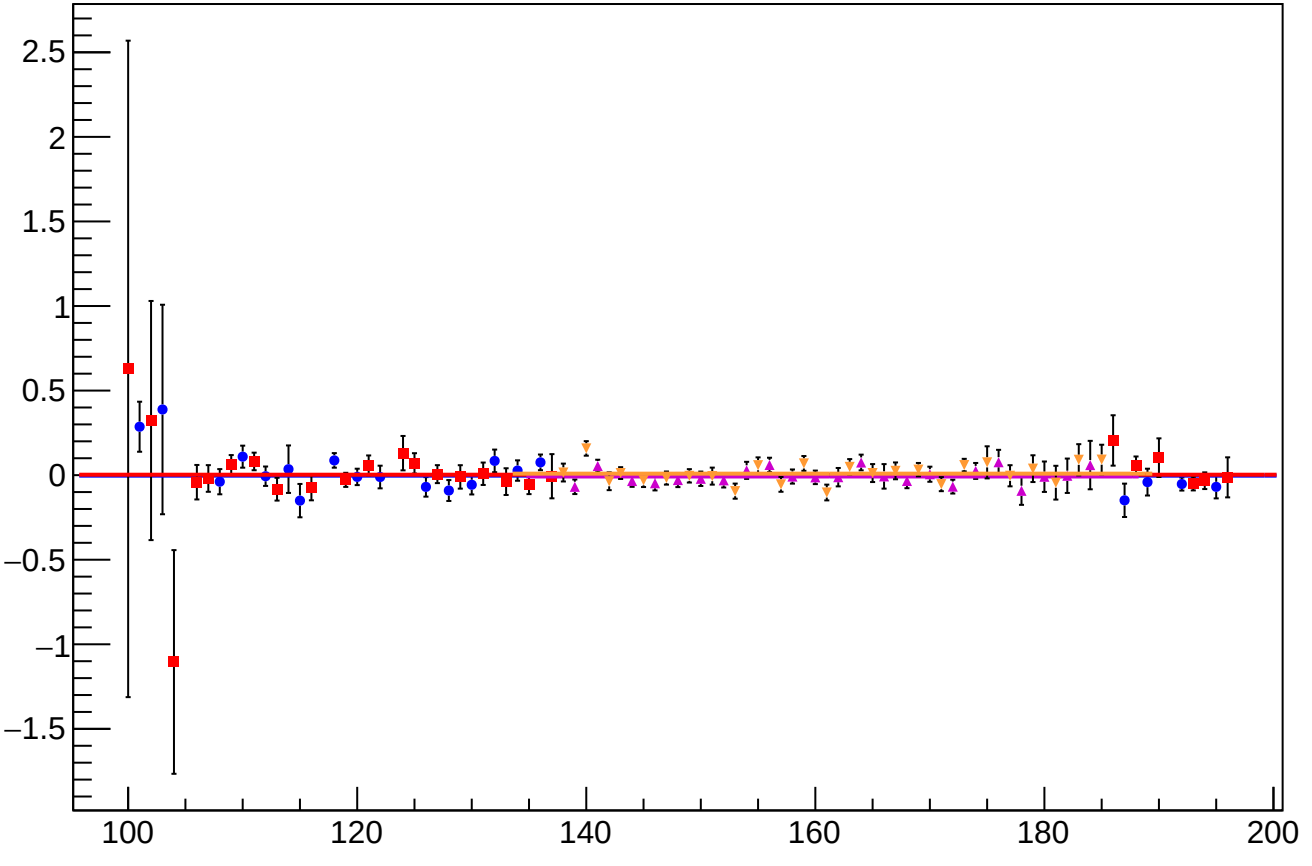
Right: 0.002+/-0.000 $\chi^2$/NDF: 9742605.9/44

In: 0.002+/-0.000 $\chi^2$/NDF:8505177.7/42

Out: 0.002+/-0.000 $\chi^2$/NDF:9691286.4/49

All: 0.002+/-0.000 $\chi^2$/NDF: 18202684.6/92

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.003+/-0.014 $\chi^2$/NDF: 28.2/19

Left Out: 0.009+/-0.010 $\chi^2$/NDF:38.6/24

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 21.0/24

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.9/22

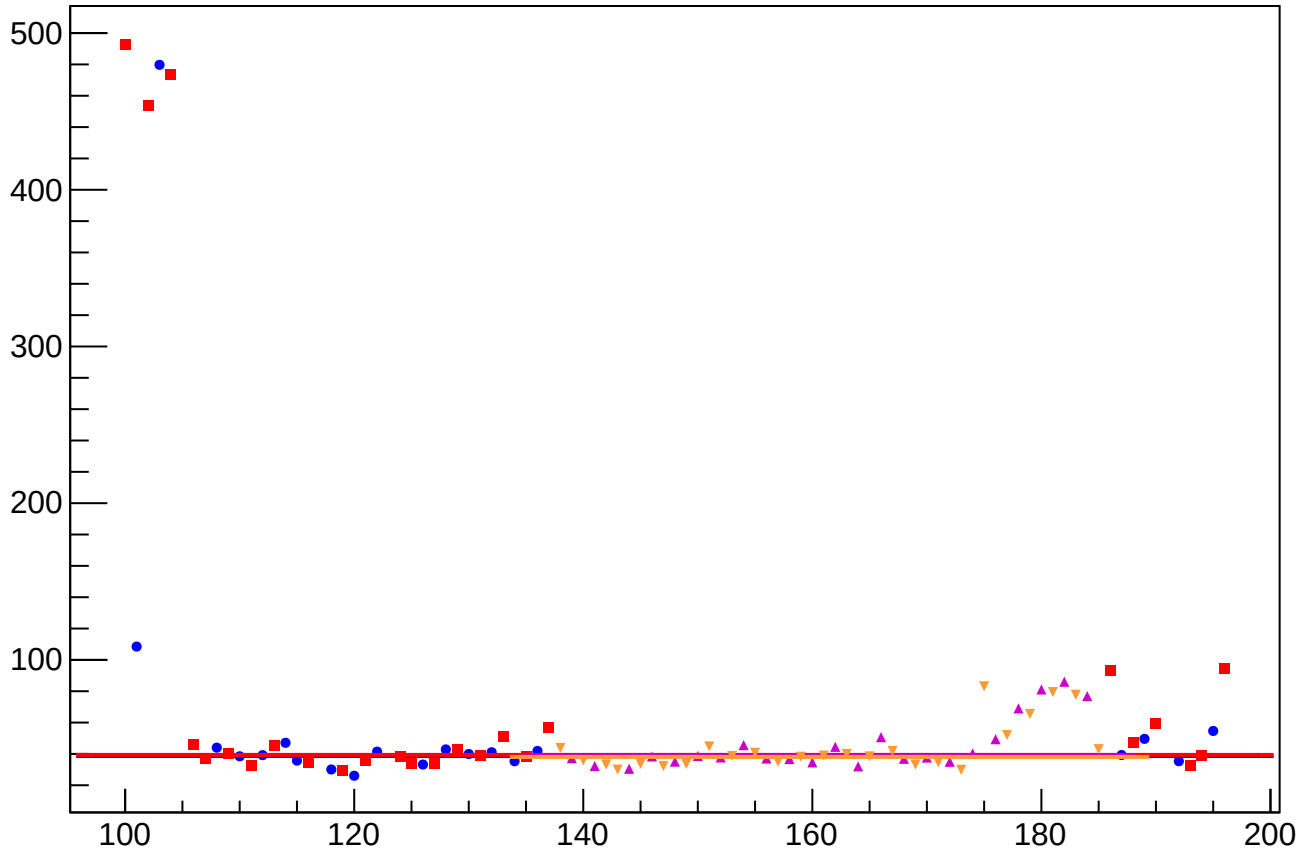
Left: 0.001+/-0.007 $\chi^2$/NDF: 59.0/47

Right: -0.000+/-0.010 $\chi^2$/NDF: 49.3/44

In: -0.006+/-0.008 $\chi^2$/NDF:47.2/42

Out: 0.007+/-0.008 $\chi^2$/NDF:59.7/49

All: 0.000+/-0.006 $\chi^2$/NDF: 108.2/92




Right In: 38.703+/-0.010 $\chi^2$/NDF: 1906079.1/19

Left Out: 38.067+/-0.007 $\chi^2$/NDF:1967110.9/24

Right Out: 39.369+/-0.010 $\chi^2$/NDF: 2835252.7/24

Left In: 38.630+/-0.007 $\chi^2$/NDF:1727699.0/22

Left: 38.338+/-0.005 $\chi^2$/NDF: 3698141.3/47

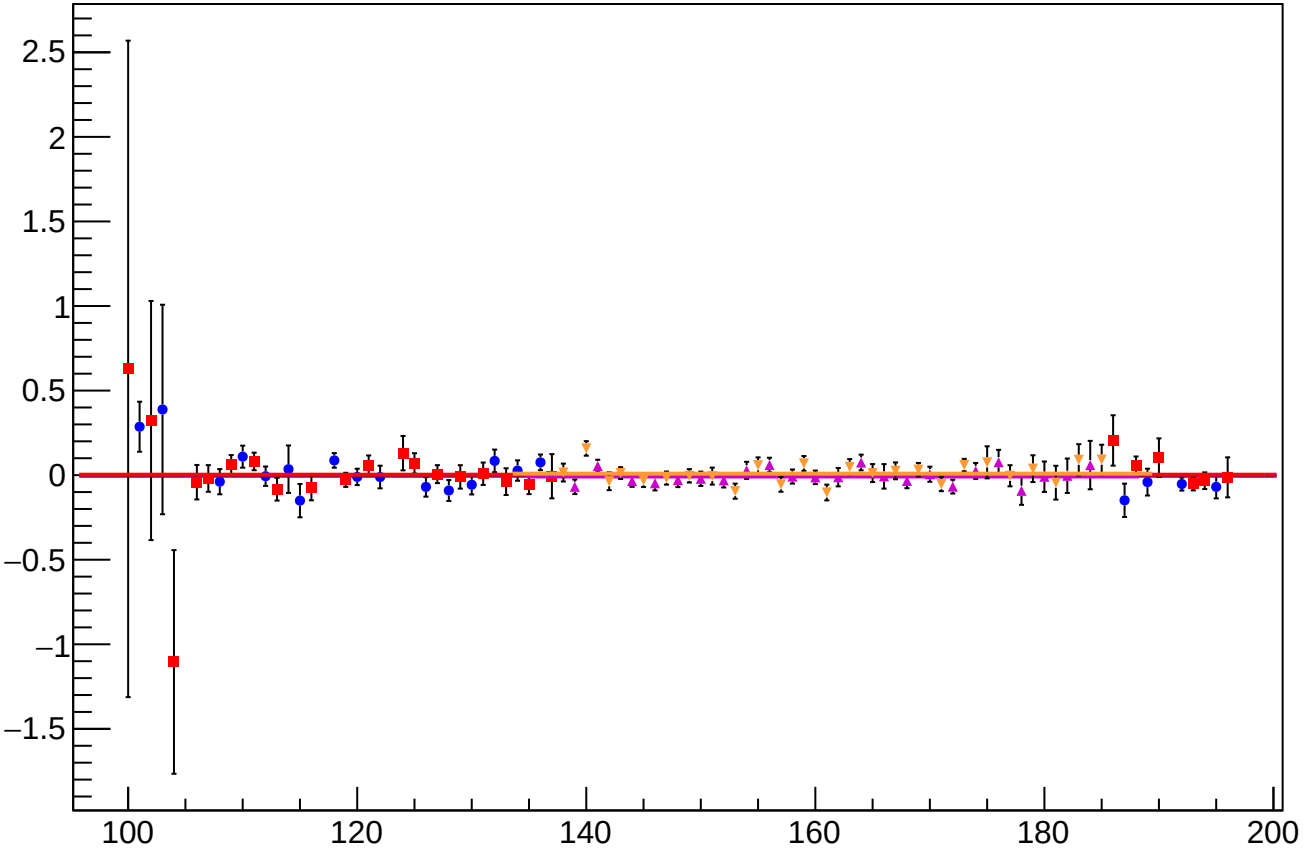
Right: 39.048+/-0.007 $\chi^2$/NDF: 4743674.0/44

In: 38.654+/-0.006 $\chi^2$/NDF:3633814.3/42

Out: 38.502+/-0.006 $\chi^2$/NDF:4814737.5/49

All: 38.575+/-0.004 $\chi^2$/NDF: 8448914.6/92

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.003+/-0.014 $\chi^2$/NDF: 28.2/19

Left Out: 0.009+/-0.010 $\chi^2$/NDF:38.6/24

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 21.0/24

Left In: -0.008+/-0.010 $\chi^2$/NDF:18.9/22

Left: 0.001+/-0.007 $\chi^2$/NDF: 59.0/47

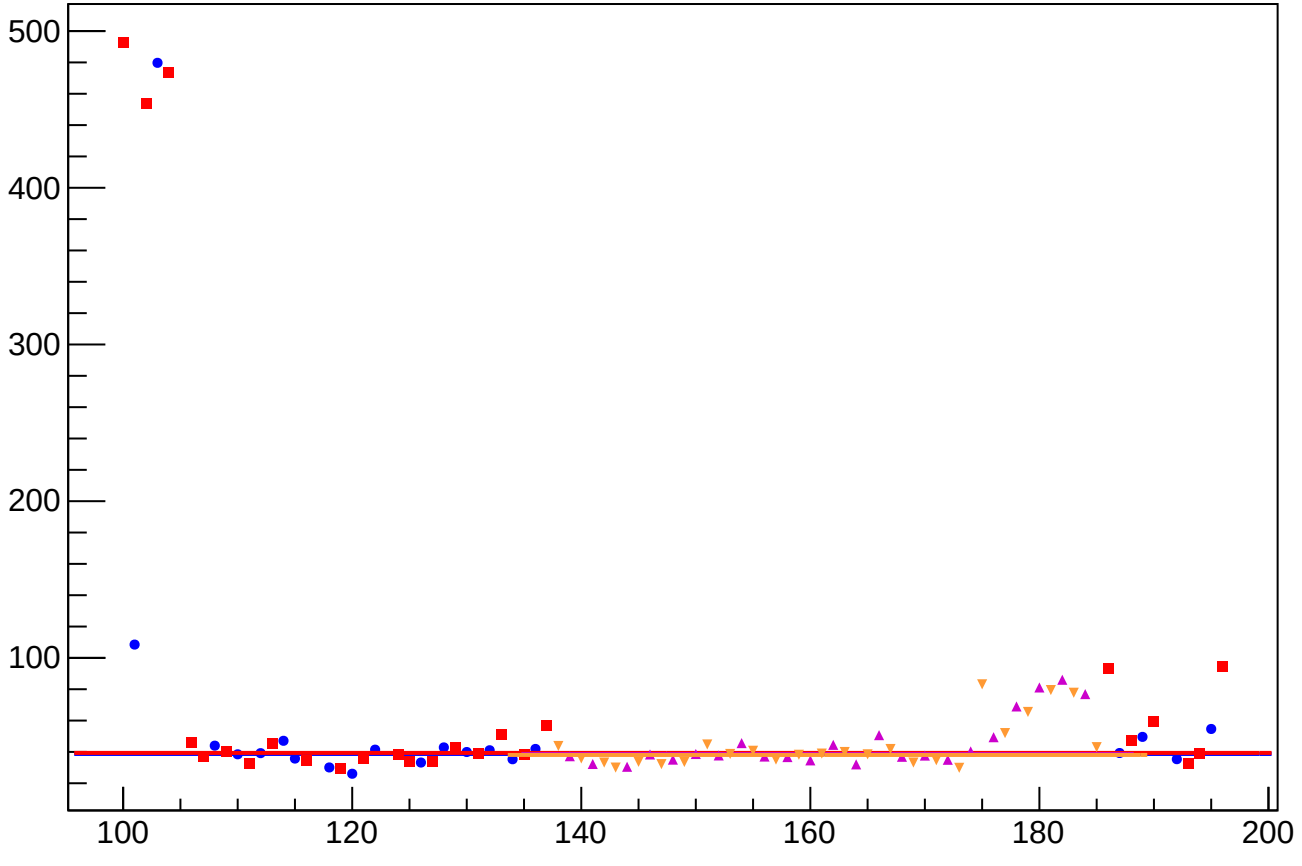
Right: -0.000+/-0.010 $\chi^2$/NDF: 49.3/44

In: -0.006+/-0.008 $\chi^2$/NDF:47.2/42

Out: 0.007+/-0.008 $\chi^2$/NDF:59.7/49

All: 0.000+/-0.006 $\chi^2$/NDF: 108.2/92

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 38.703+/-0.010 $\chi^2$/NDF: 1906079.1/19

Left Out: 38.067+/-0.007 $\chi^2$/NDF:1967110.9/24

Right Out: 39.369+/-0.010 $\chi^2$/NDF: 2835252.7/24

Left In: 38.630+/-0.007 $\chi^2$/NDF:1727699.0/22

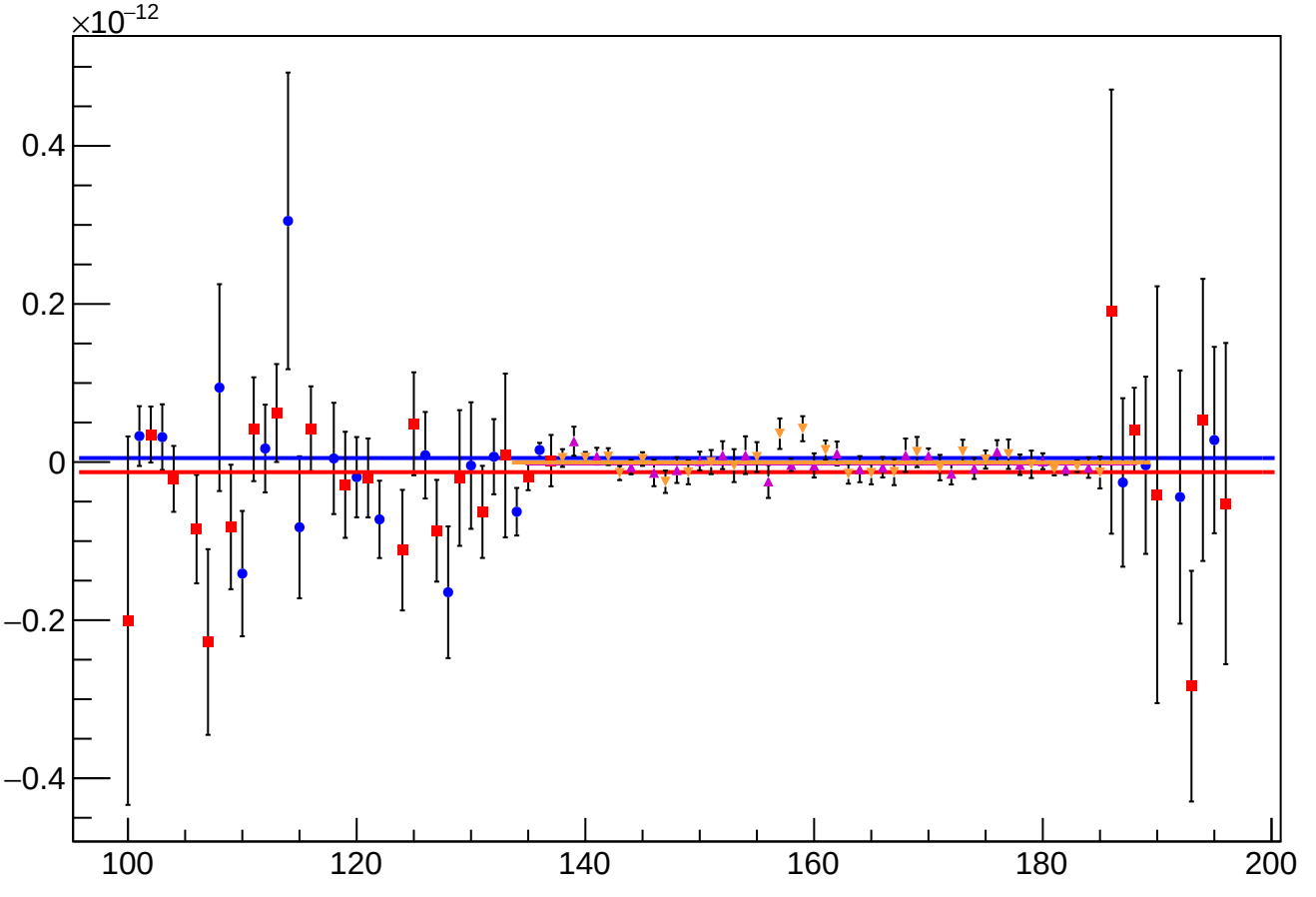
Left: 38.338+/-0.005 $\chi^2$/NDF: 3698141.3/47

Right: 39.048+/-0.007 $\chi^2$/NDF: 4743674.0/44

In: 38.654+/-0.006 $\chi^2$/NDF:3633814.3/42

Out: 38.502+/-0.006 $\chi^2$/NDF:4814737.5/49

All: 38.575+/-0.004 $\chi^2$/NDF: 8448914.6/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.9/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.2/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:11.6/22

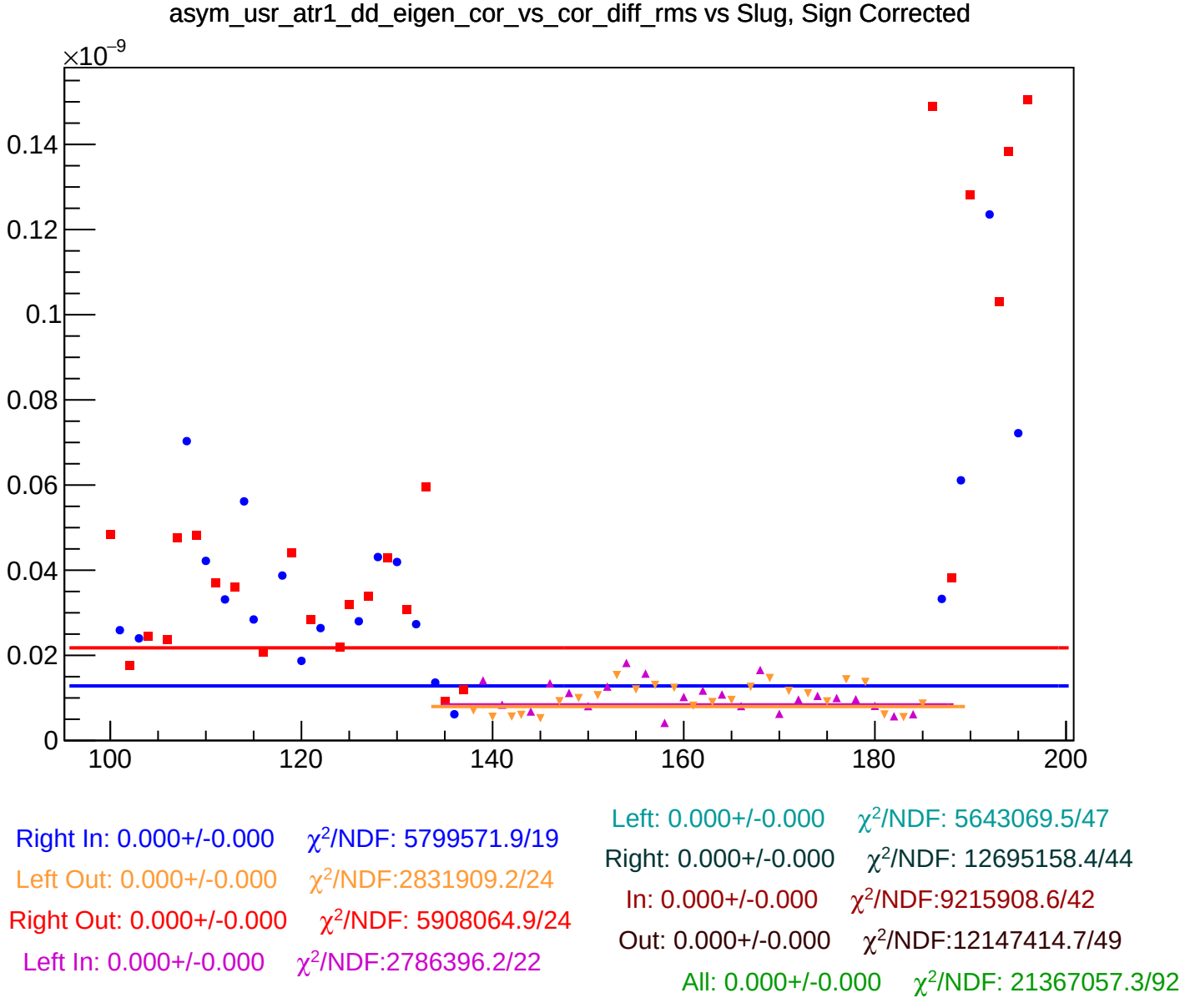
Left: -0.000+/-0.000 $\chi^2$/NDF: 38.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.0/44

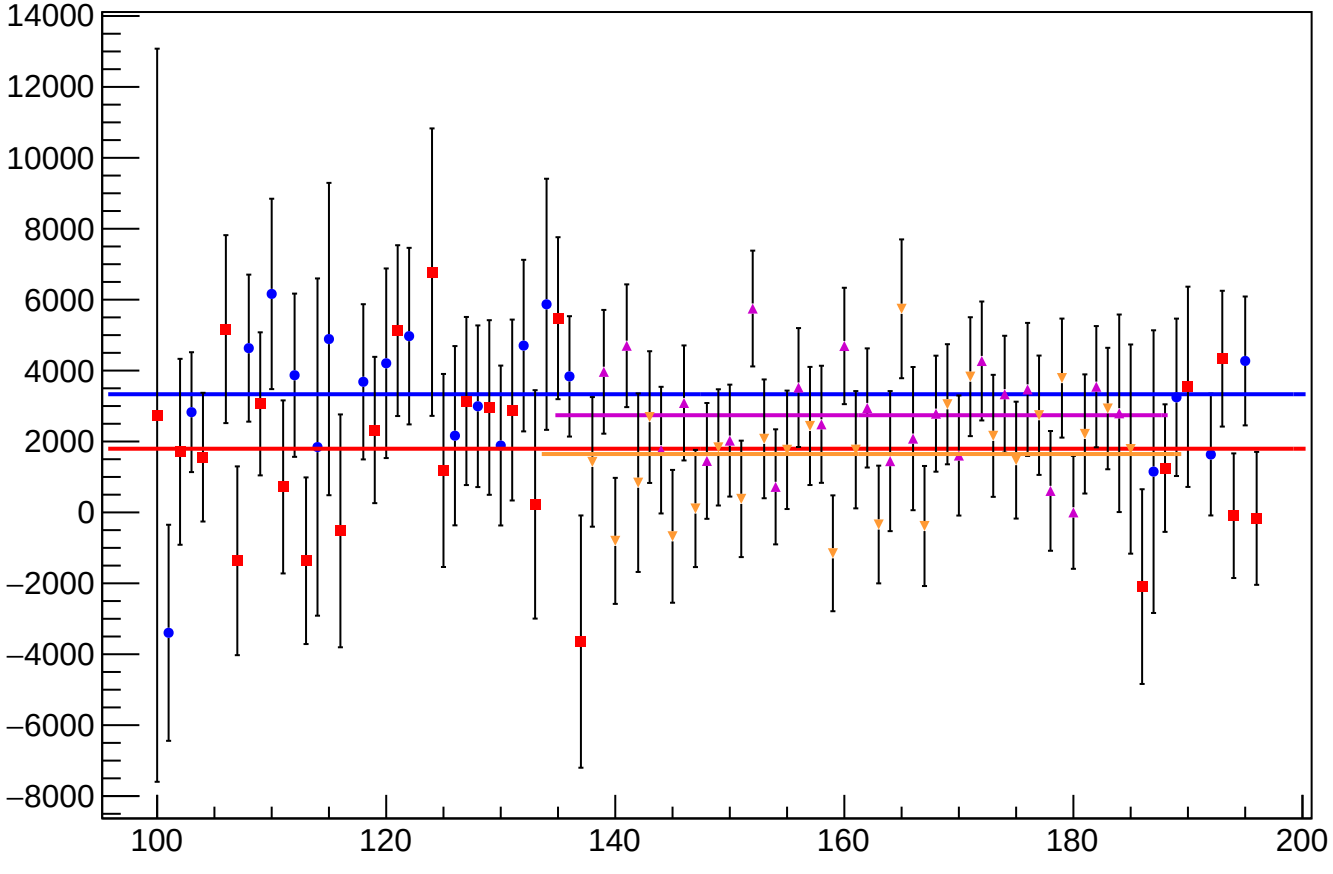
In: -0.000+/-0.000 $\chi^2$/NDF:34.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.4/49

All: -0.000+/-0.000 $\chi^2$/NDF: 83.7/92


asym_usr_atr1_dd_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5799571.9/19
Left Out: 0.000+/-0.000 χ²/NDF:2831909.2/24
Right Out: 0.000+/-0.000 χ²/NDF: 5908064.9/24
Left In: 0.000+/-0.000 χ²/NDF:2786396.2/22
Left: 0.000+/-0.000 χ²/NDF: 5643069.5/47
Right: 0.000+/-0.000 χ²/NDF: 12695158.4/44
In: 0.000+/-0.000 χ²/NDF:9215908.6/42
Out: 0.000+/-0.000 χ²/NDF:12147414.7/49
All: 0.000+/-0.000 χ²/NDF: 21367057.3/92

# reg_asym_usr_atr2_avg_mean vs Slug, Sign Corrected




Right In: 3332.938+/-521.698 $\chi^2$/NDF: 10.4/19

Left Out: 1646.402+/-349.758 $\chi^2$/NDF:21.0/24

Right Out: 1795.941+/-479.779 $\chi^2$/NDF: 21.9/24

Left In: 2740.924+/-358.458 $\chi^2$/NDF:16.4/22

Left: 2180.220+/-250.336 $\chi^2$/NDF: 42.3/47

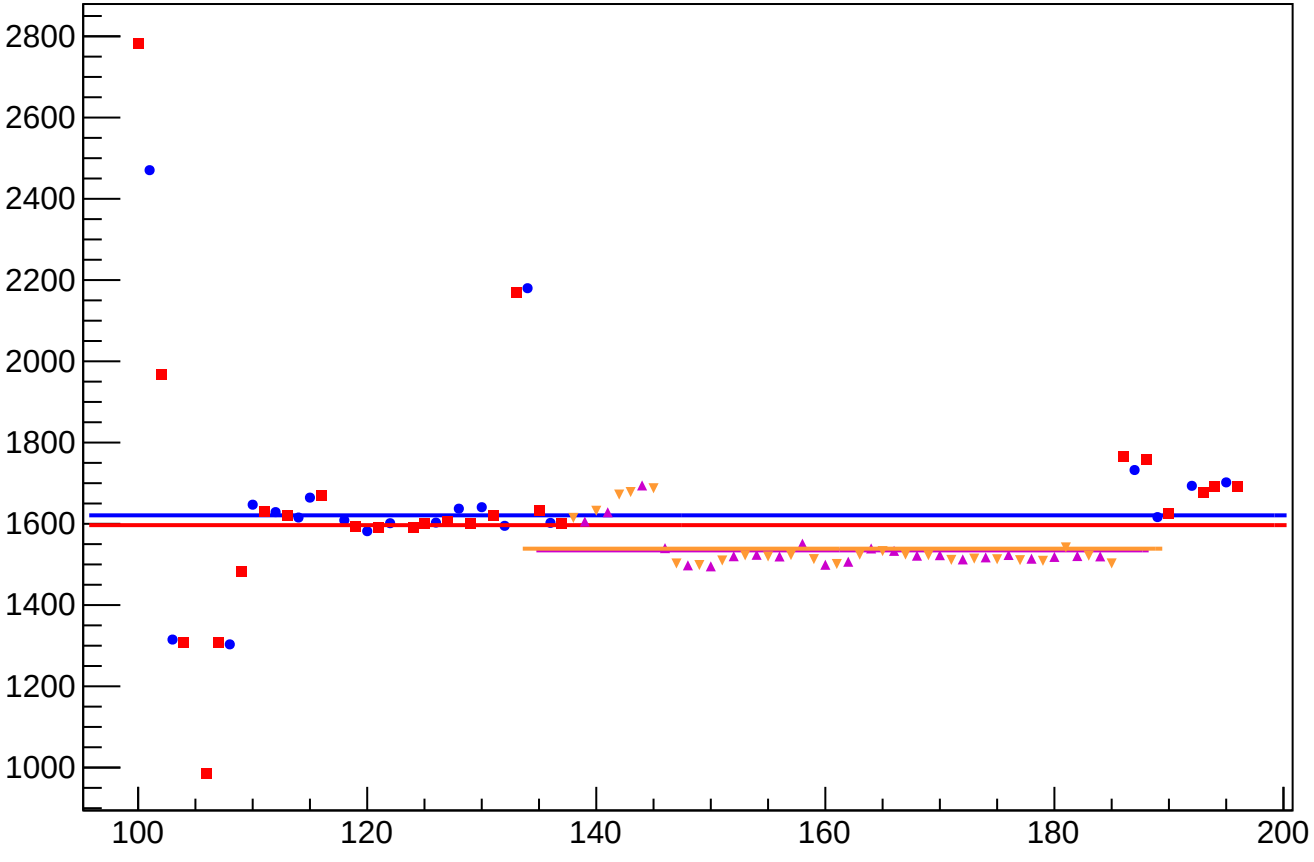
Right: 2500.218+/-353.146 $\chi^2$/NDF: 37.0/44

In: 2930.784+/-295.440 $\chi^2$/NDF:27.8/42

Out: 1698.295+/-282.630 $\chi^2$/NDF:43.0/49

All: 2287.241+/-204.228 $\chi^2$/NDF: 79.8/92

# reg_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1620.867+/-0.369 $\chi^2$/NDF: 328756.7/19

Left Out: 1538.810+/-0.247 $\chi^2$/NDF:47056.2/24

Right Out: 1596.729+/-0.335 $\chi^2$/NDF: 430649.0/24

Left In: 1534.615+/-0.253 $\chi^2$/NDF:31120.6/22

Left: 1536.764+/-0.177 $\chi^2$/NDF: 78317.2/47

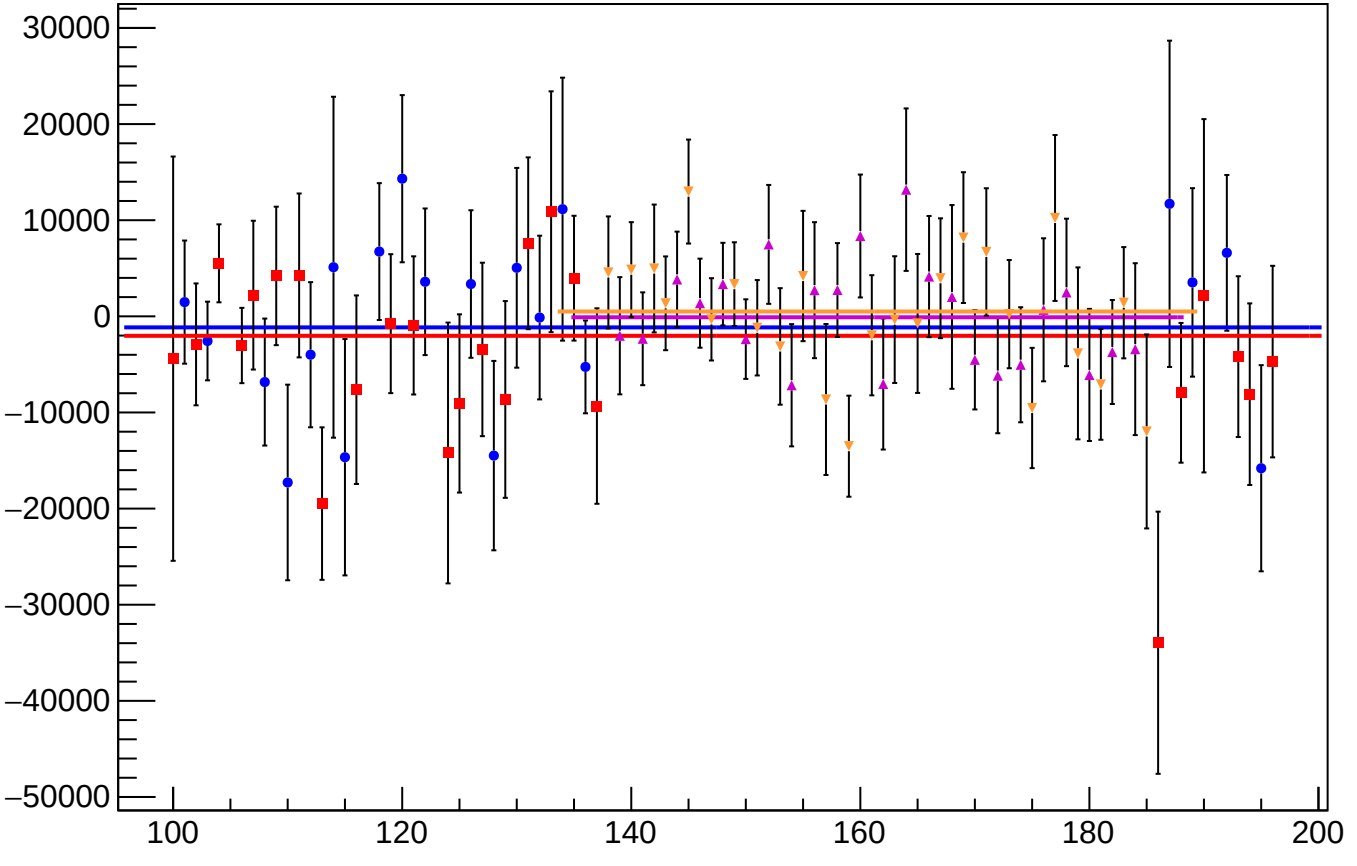
Right: 1607.654+/-0.248 $\chi^2$/NDF: 761749.2/44

In: 1562.276+/-0.209 $\chi^2$/NDF:397013.0/42

Out: 1559.206+/-0.199 $\chi^2$/NDF:497018.6/49

All: 1560.667+/-0.144 $\chi^2$/NDF: 894144.8/92

asym_usr_atr2_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1149.831+/-1739.357 $\chi^2$/NDF: 17.5/19

Left Out: 503.846+/-1187.304 $\chi^2$/NDF:26.8/24

Right Out: -2026.360+/-1539.900 $\chi^2$/NDF: 22.5/24

Left In: -97.910+/-1217.585 $\chi^2$/NDF:14.9/22

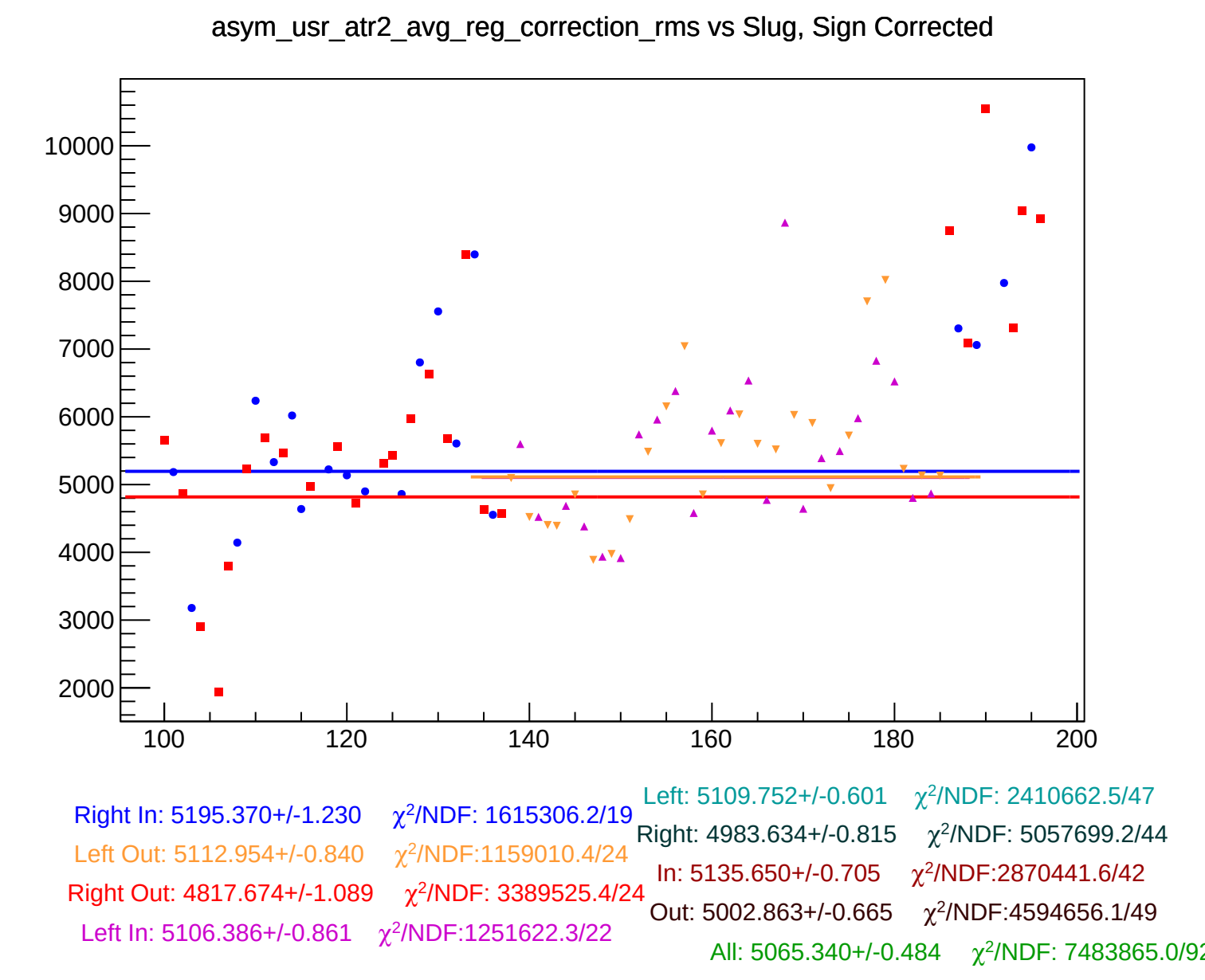
Left: 210.544+/-850.054 $\chi^2$/NDF: 41.8/47

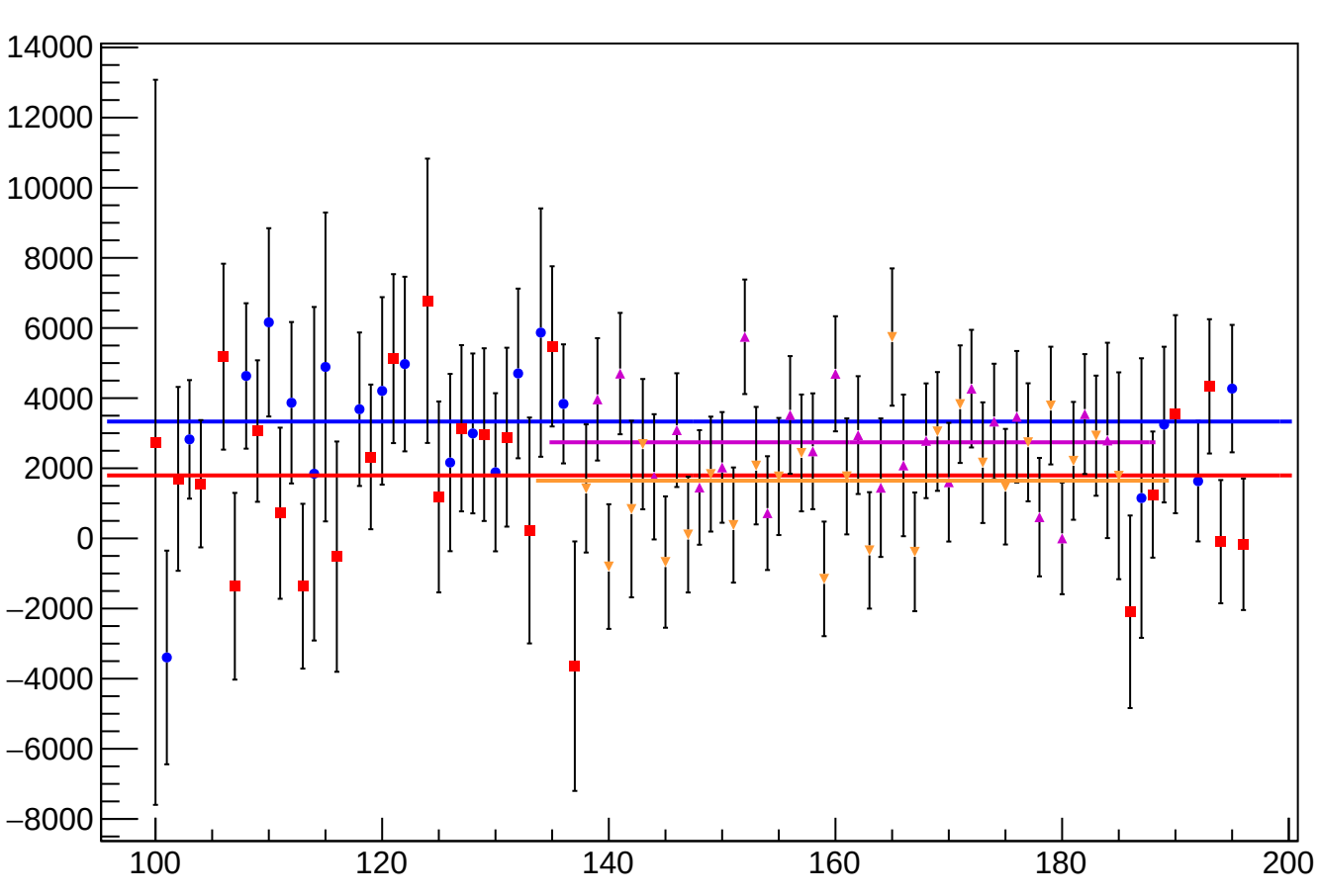
Right: -1641.213+/-1152.972 $\chi^2$/NDF: 40.1/44

In: -443.857+/-997.475 $\chi^2$/NDF:32.6/42

Out: -439.509+/-940.269 $\chi^2$/NDF:51.0/49

All: -441.555+/-684.201 $\chi^2$/NDF: 83.6/92


asym_usr_atr2_avg_reg_correction_rms vs Slug, Sign Corrected
10000
9000
8000
7000
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 5195.370+/-1.230 χ²/NDF: 1615306.2/19
Left Out: 5112.954+/-0.840 χ²/NDF:1159010.4/24
Right Out: 4817.674+/-1.089 χ²/NDF: 3389525.4/24
Left In: 5106.386+/-0.861 χ²/NDF:1251622.3/22
Left: 5109.752+/-0.601 χ²/NDF: 2410662.5/47
Right: 4983.634+/-0.815 χ²/NDF: 5057699.2/44
In: 5135.650+/-0.705 χ²/NDF:2870441.6/42
Out: 5002.863+/-0.665 χ²/NDF:4594656.1/49
All: 5065.340+/-0.484 χ²/NDF: 7483865.0/92




Right In: 3332.711+/-521.698 $\chi^2$/NDF: 10.4/19

Left Out: 1646.294+/-349.758 $\chi^2$/NDF:21.0/24

Right Out: 1795.915+/-479.781 $\chi^2$/NDF: 21.9/24

Left In: 2740.826+/-358.458 $\chi^2$/NDF:16.4/22

Left: 2180.117+/-250.336 $\chi^2$/NDF: 42.3/47

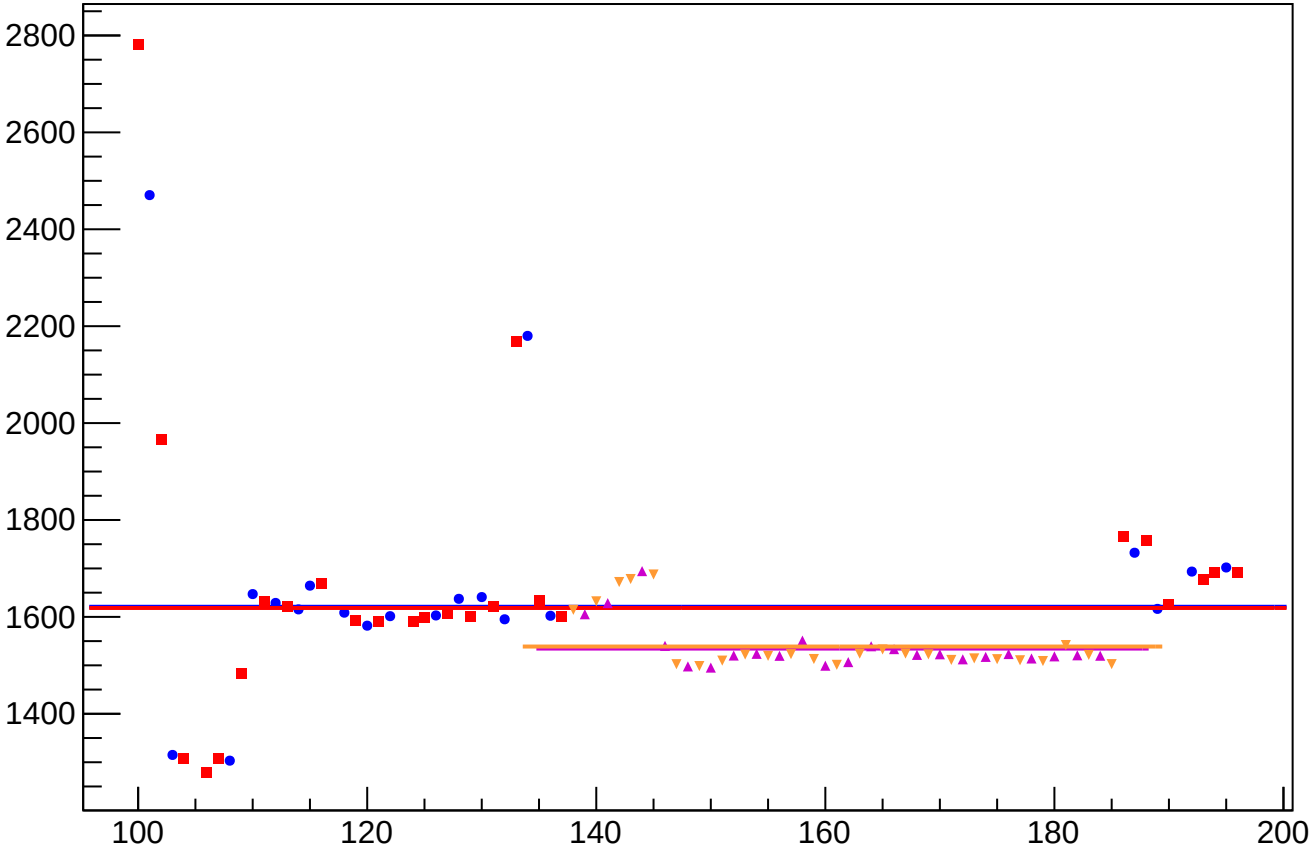
Right: 2500.102+/-353.147 $\chi^2$/NDF: 37.0/44

In: 2930.644+/-295.440 $\chi^2$/NDF:27.8/42

Out: 1698.215+/-282.630 $\chi^2$/NDF:43.0/49

All: 2287.133+/-204.228 $\chi^2$/NDF: 79.8/92

# cor_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1620.867+/-0.369 $\chi^2$/NDF: 328755.8/19

Left Out: 1538.810+/-0.247 $\chi^2$/NDF:47056.2/24

Right Out: 1618.415+/-0.338 $\chi^2$/NDF: 280130.6/24

Left In: 1534.615+/-0.253 $\chi^2$/NDF:31120.6/22

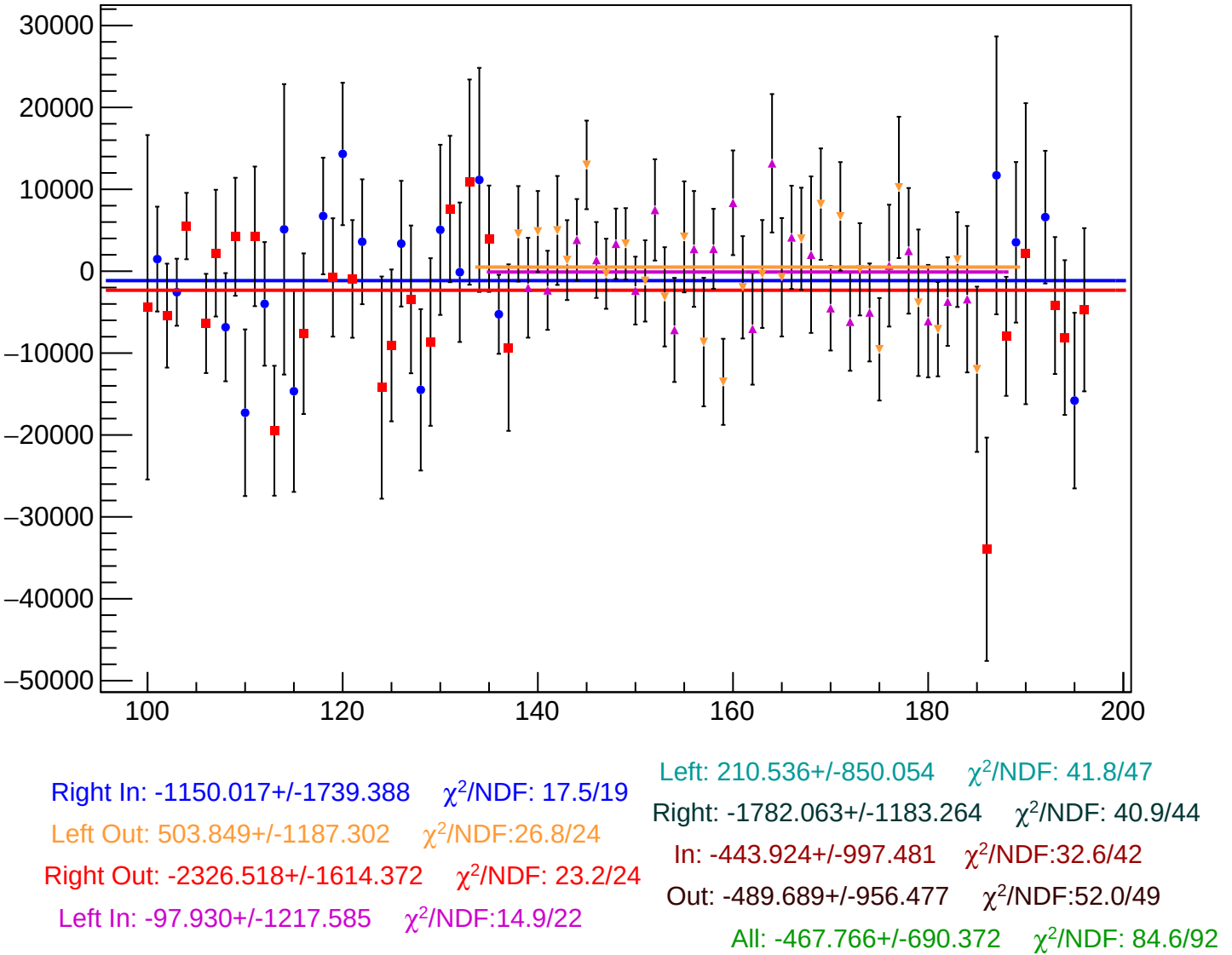
Left: 1536.764+/-0.177 $\chi^2$/NDF: 78317.1/47

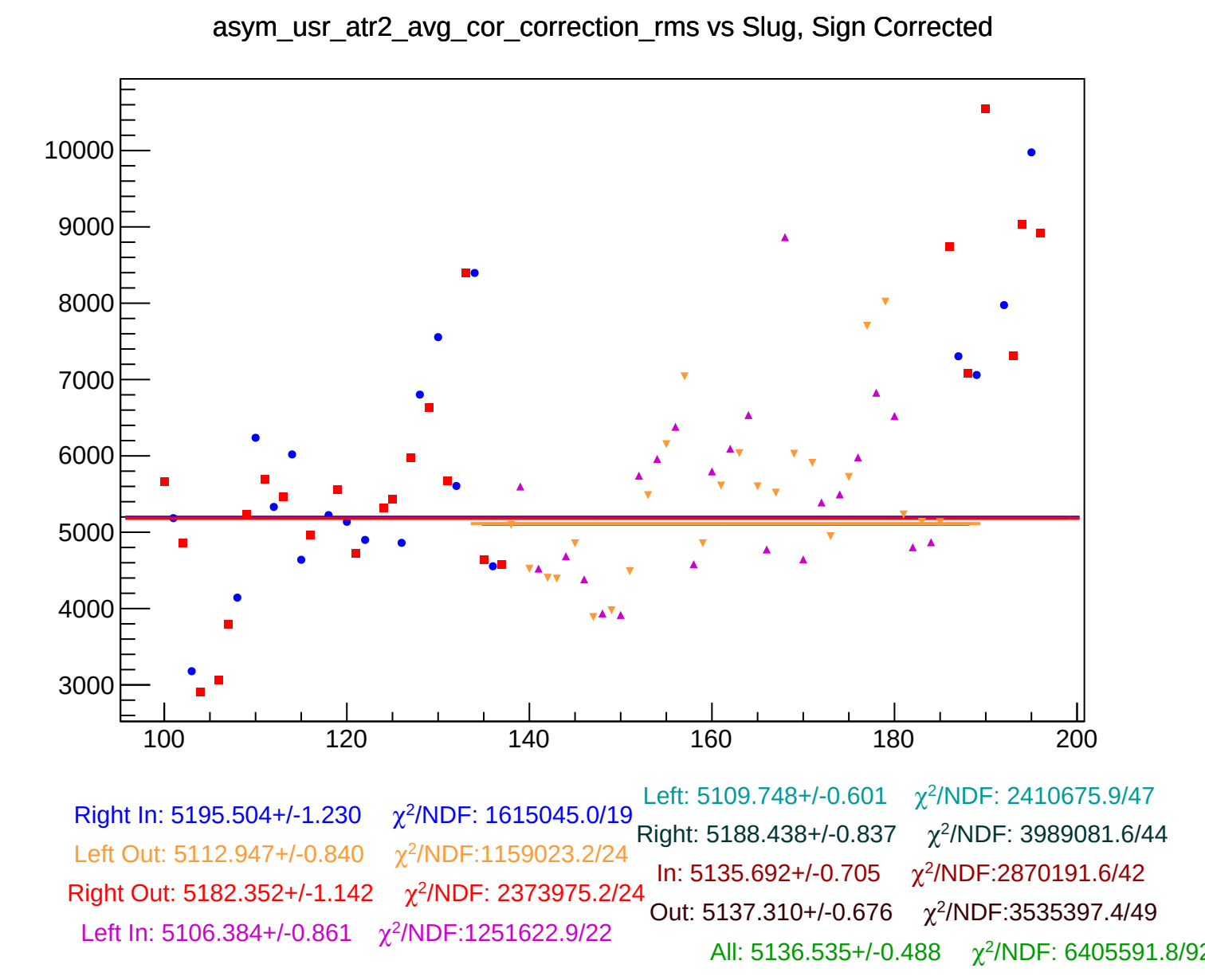
Right: 1619.535+/-0.249 $\chi^2$/NDF: 608910.4/44

In: 1562.276+/-0.209 $\chi^2$/NDF:397012.3/42

Out: 1566.529+/-0.200 $\chi^2$/NDF:363263.3/49

All: 1564.499+/-0.144 $\chi^2$/NDF: 760492.2/92


asym_usr_atr2_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -1150.017+/-1739.388 χ²/NDF: 17.5/19
Left Out: 503.849+/-1187.302 χ²/NDF:26.8/24
Right Out: -2326.518+/-1614.372 χ²/NDF: 23.2/24
Left In: -97.930+/-1217.585 χ²/NDF:14.9/22
Left: 210.536+/-850.054 χ²/NDF: 41.8/47
Right: -1782.063+/-1183.264 χ²/NDF: 40.9/44
In: -443.924+/-997.481 χ²/NDF:32.6/42
Out: -489.689+/-956.477 χ²/NDF:52.0/49
All: -467.766+/-690.372 χ²/NDF: 84.6/92


asym_usr_atr2_avg_cor_correction_rms vs Slug, Sign Corrected
10000
9000
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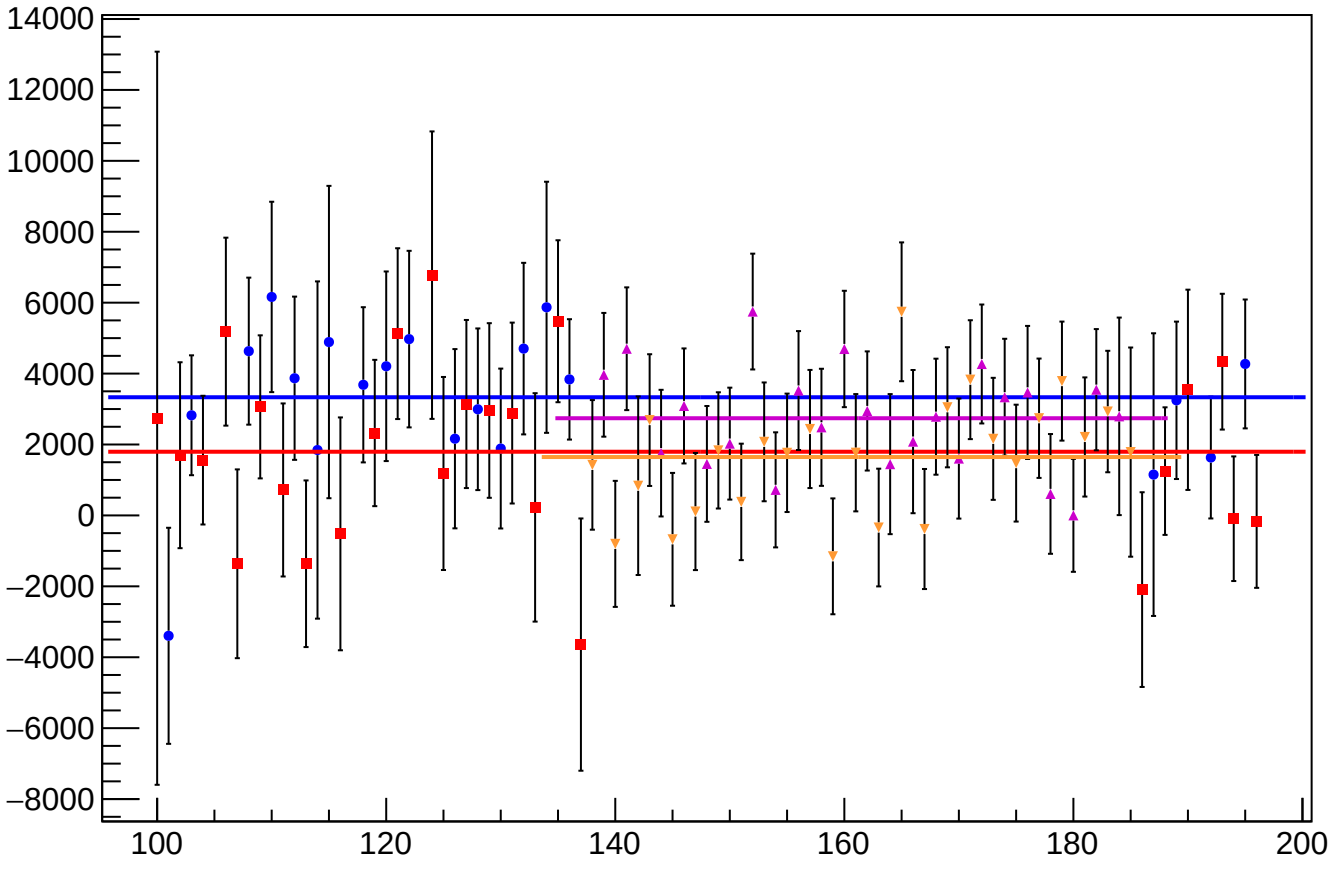
120
140
160
180
200
Right In: 5195.504+/-1.230 χ²/NDF: 1615045.0/19
Left Out: 5112.947+/-0.840 χ²/NDF:1159023.2/24
Right Out: 5182.352+/-1.142 χ²/NDF: 2373975.2/24
Left In: 5106.384+/-0.861 χ²/NDF:1251622.9/22
Left: 5109.748+/-0.601 χ²/NDF: 2410675.9/47
Right: 5188.438+/-0.837 χ²/NDF: 3989081.6/44
In: 5135.692+/-0.705 χ²/NDF:2870191.6/42
Out: 5137.310+/-0.676 χ²/NDF:3535397.4/49
All: 5136.535+/-0.488 χ²/NDF: 6405591.8/92




Right In: 3332.711+/-521.698 $\chi^2$/NDF: 10.4/19

Left Out: 1646.294+/-349.758 $\chi^2$/NDF:21.0/24

Right Out: 1795.915+/-479.781 $\chi^2$/NDF: 21.9/24

Left In: 2740.826+/-358.458 $\chi^2$/NDF:16.4/22

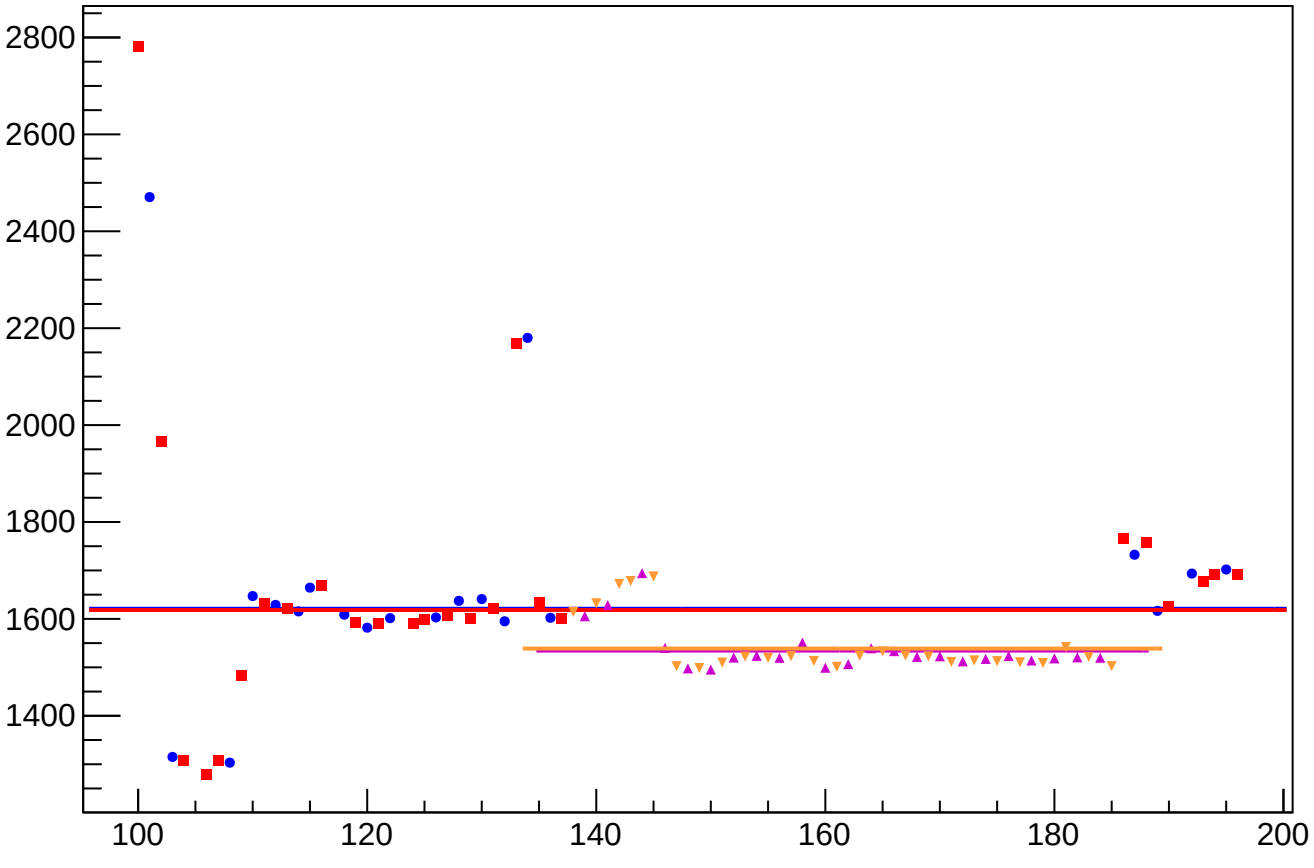
Left: 2180.117+/-250.336 $\chi^2$/NDF: 42.3/47

Right: 2500.102+/-353.147 $\chi^2$/NDF: 37.0/44

In: 2930.644+/-295.440 $\chi^2$/NDF:27.8/42

Out: 1698.215+/-282.630 $\chi^2$/NDF:43.0/49

All: 2287.133+/-204.228 $\chi^2$/NDF: 79.8/92




Right In: 1620.867+/-0.369 $\chi^2$/NDF: 328755.8/19

Left Out: 1538.810+/-0.247 $\chi^2$/NDF:47056.2/24

Right Out: 1618.415+/-0.338 $\chi^2$/NDF: 280130.6/24

Left In: 1534.615+/-0.253 $\chi^2$/NDF:31120.6/22

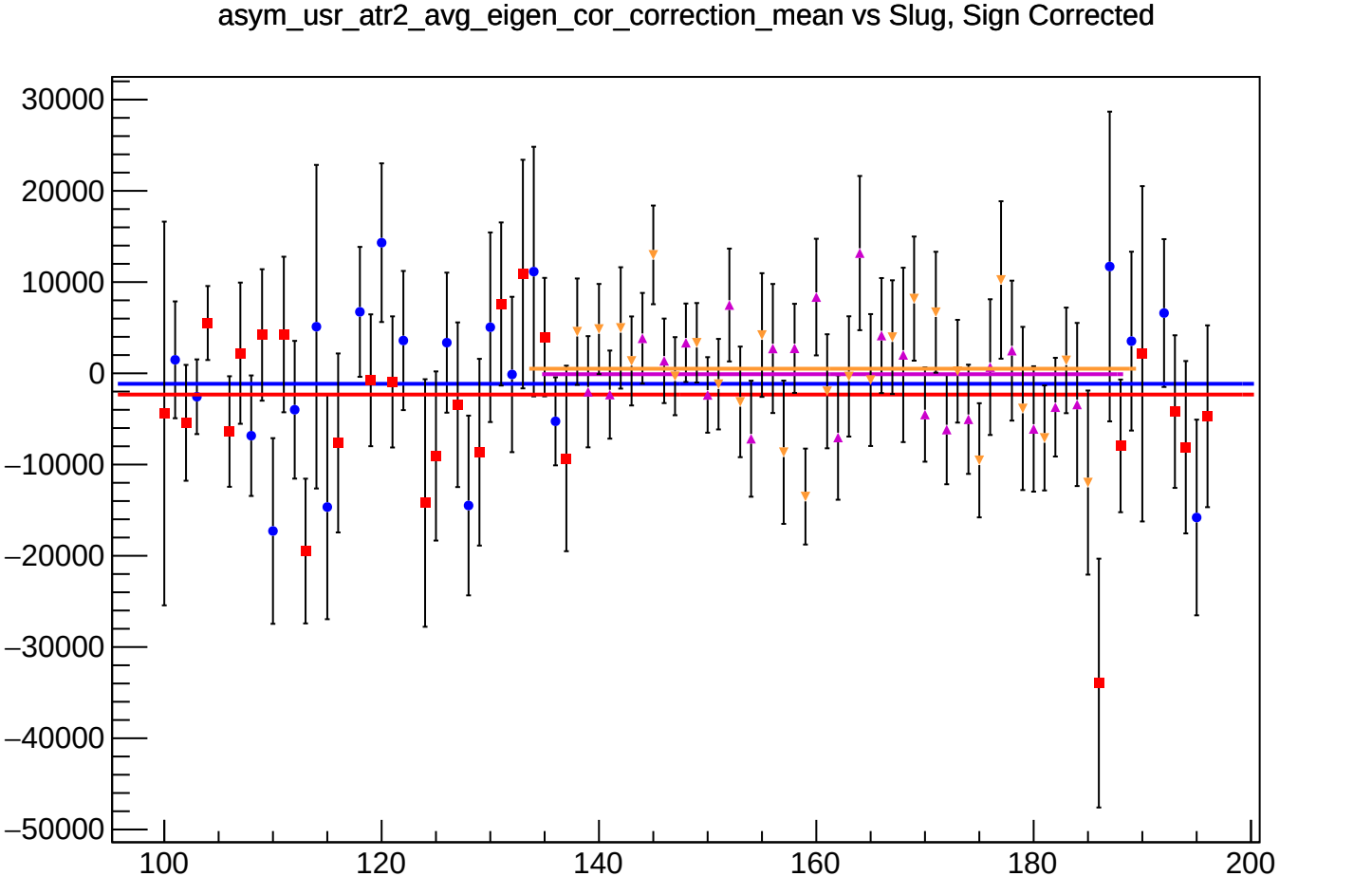
Left: 1536.764+/-0.177 $\chi^2$/NDF: 78317.1/47

Right: 1619.535+/-0.249 $\chi^2$/NDF: 608910.4/44

In: 1562.276+/-0.209 $\chi^2$/NDF:397012.3/42

Out: 1566.529+/-0.200 $\chi^2$/NDF:363263.3/49

All: 1564.499+/-0.144 $\chi^2$/NDF: 760492.2/92


asym_usr_atr2_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
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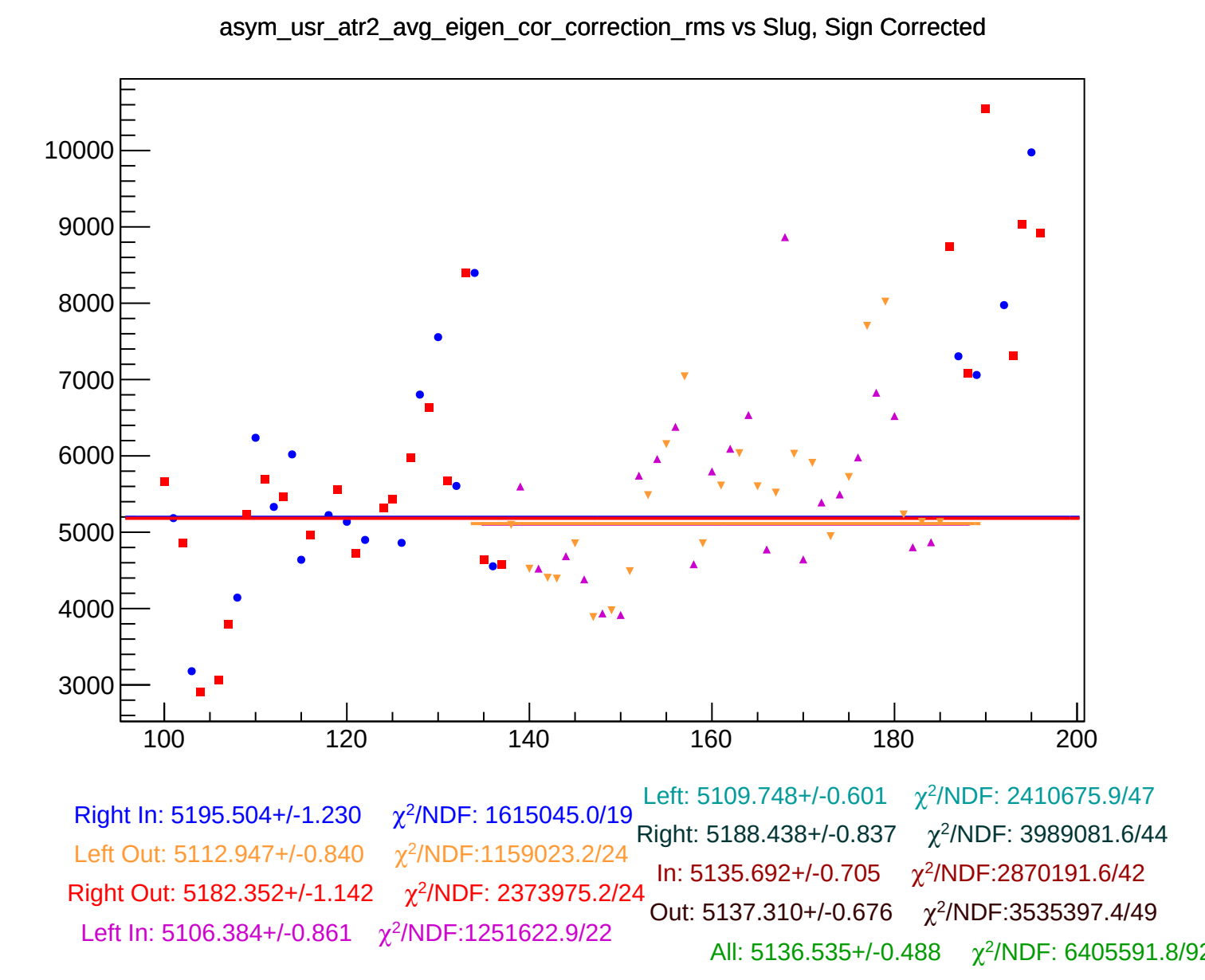
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -1150.017+/-1739.388 χ²/NDF: 17.5/19
Left Out: 503.849+/-1187.302 χ²/NDF:26.8/24
Right Out: -2326.518+/-1614.372 χ²/NDF: 23.2/24
Left In: -97.930+/-1217.585 χ²/NDF:14.9/22
Left: 210.536+/-850.054 χ²/NDF: 41.8/47
Right: -1782.063+/-1183.264 χ²/NDF: 40.9/44
In: -443.924+/-997.481 χ²/NDF:32.6/42
Out: -489.689+/-956.477 χ²/NDF:52.0/49
All: -467.766+/-690.372 χ²/NDF: 84.6/92


asym_usr_atr2_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
10000
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7000
6000
5000
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3000
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120
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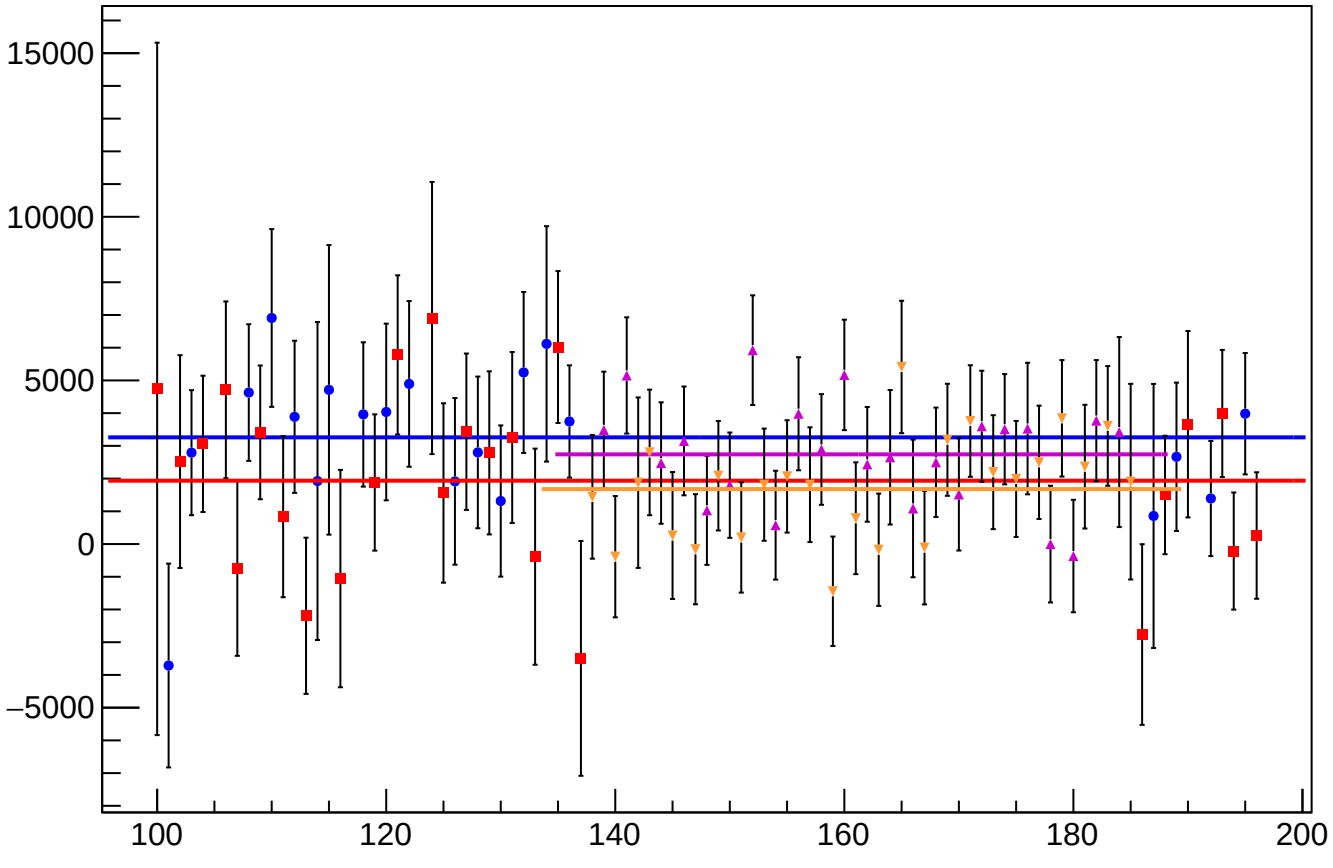
180
200
Right In: 5195.504+/-1.230 χ²/NDF: 1615045.0/19
Left Out: 5112.947+/-0.840 χ²/NDF:1159023.2/24
Right Out: 5182.352+/-1.142 χ²/NDF: 2373975.2/24
Left In: 5106.384+/-0.861 χ²/NDF:1251622.9/22
Left: 5109.748+/-0.601 χ²/NDF: 2410675.9/47
Right: 5188.438+/-0.837 χ²/NDF: 3989081.6/44
In: 5135.692+/-0.705 χ²/NDF:2870191.6/42
Out: 5137.310+/-0.676 χ²/NDF:3535397.4/49
All: 5136.535+/-0.488 χ²/NDF: 6405591.8/92




Right In: 3259.984+/-534.615 $\chi^2$/NDF: 12.3/19

Left Out: 1679.163+/-362.391 $\chi^2$/NDF:19.0/24

Right Out: 1935.914+/-493.023 $\chi^2$/NDF: 24.2/24

Left In: 2740.666+/-370.604 $\chi^2$/NDF:19.2/22

Left: 2198.022+/-259.104 $\chi^2$/NDF: 42.3/47

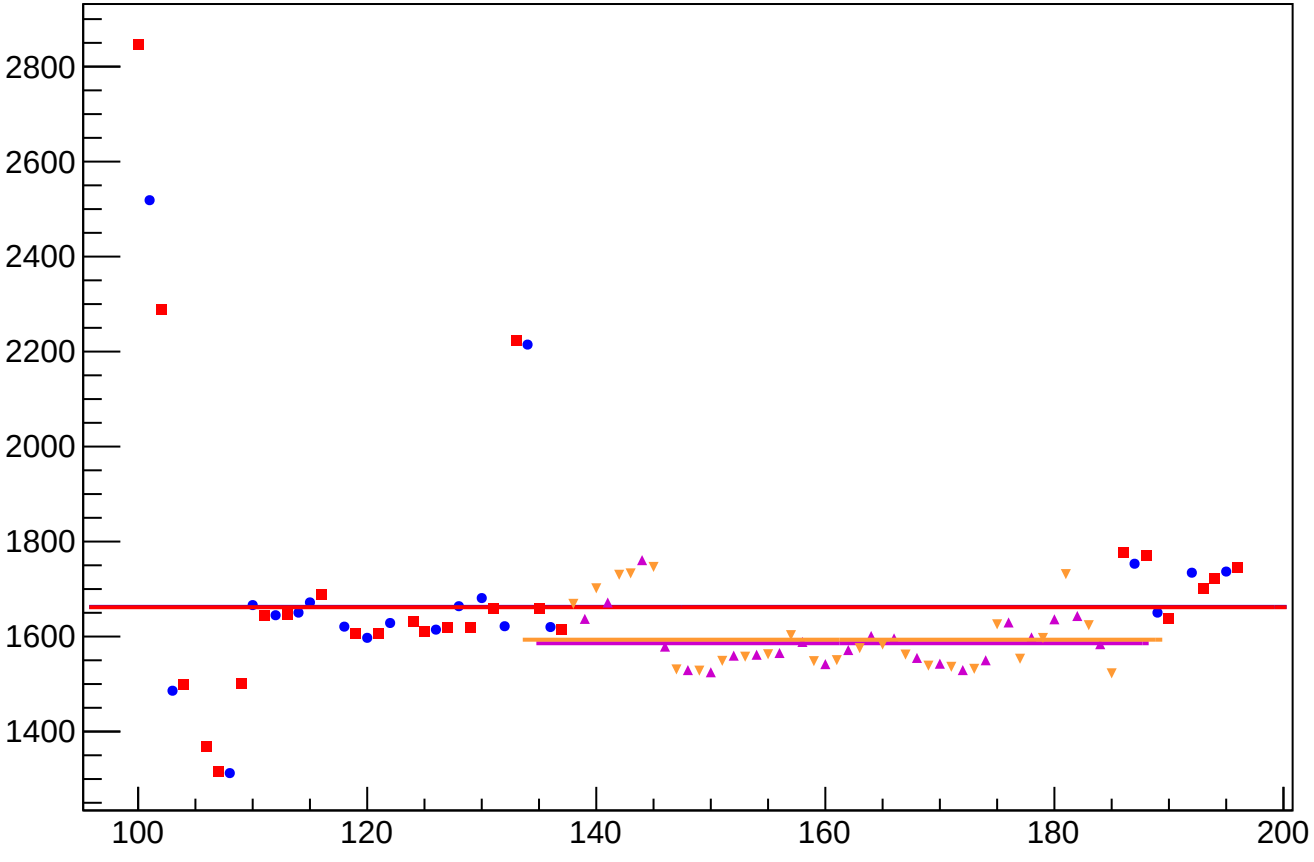
Right: 2544.447+/-362.433 $\chi^2$/NDF: 39.8/44

In: 2909.224+/-304.578 $\chi^2$/NDF:32.1/42

Out: 1769.223+/-291.997 $\chi^2$/NDF:43.3/49

All: 2315.191+/-210.780 $\chi^2$/NDF: 82.7/92

# dit_asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 1662.481+/-0.378 $\chi^2$/NDF: 284204.0/19

Left Out: 1593.388+/-0.256 $\chi^2$/NDF:71876.4/24

Right Out: 1661.759+/-0.348 $\chi^2$/NDF: 261948.1/24

Left In: 1585.918+/-0.262 $\chi^2$/NDF:41915.3/22

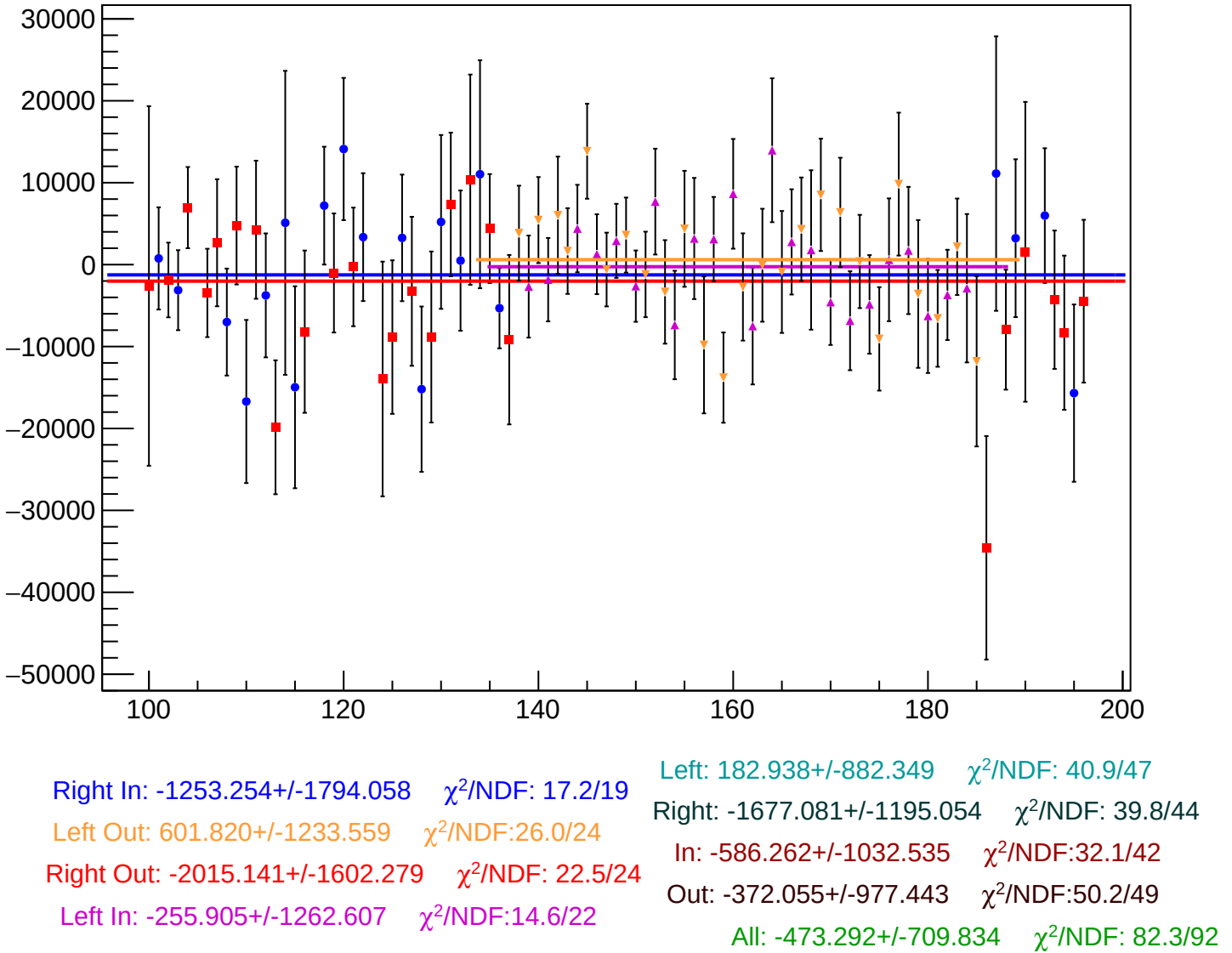
Left: 1589.737+/-0.183 $\chi^2$/NDF: 114207.1/47

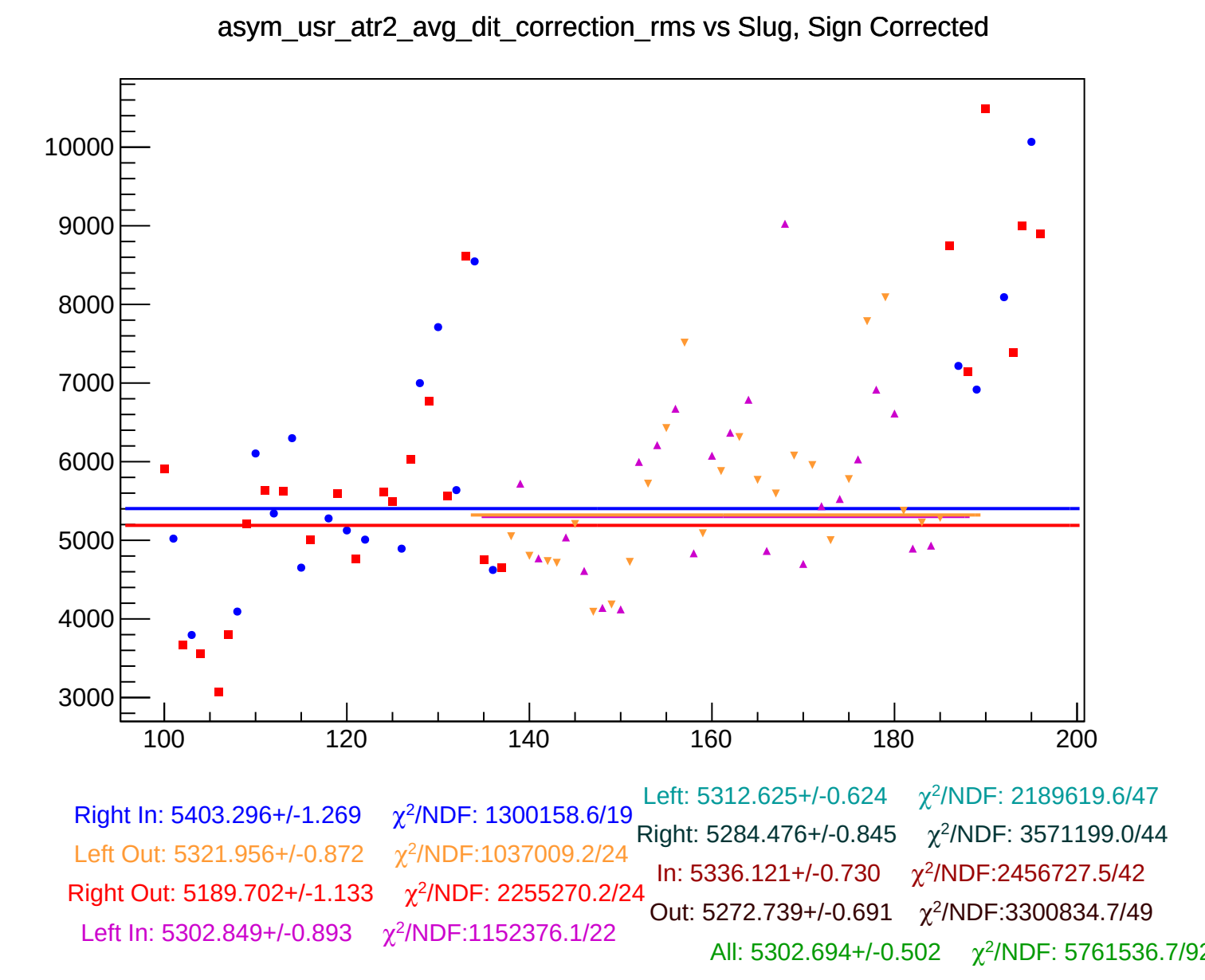
Right: 1662.091+/-0.256 $\chi^2$/NDF: 546154.1/44

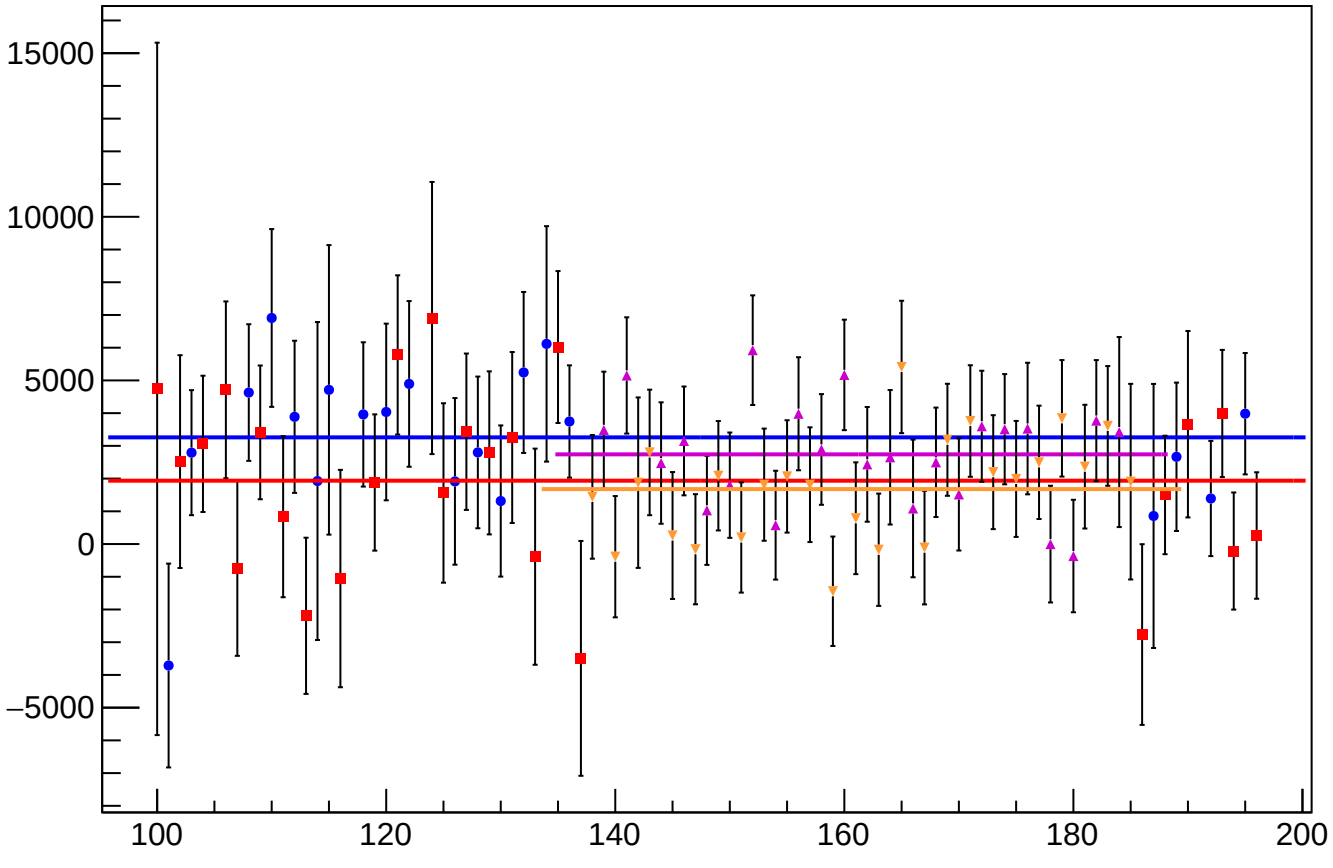
In: 1610.768+/-0.215 $\chi^2$/NDF:353824.4/42

Out: 1617.388+/-0.206 $\chi^2$/NDF:358815.1/49

All: 1614.219+/-0.149 $\chi^2$/NDF: 713131.9/92


asym_usr_atr2_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -1253.254+/-1794.058 χ²/NDF: 17.2/19
Left Out: 601.820+/-1233.559 χ²/NDF:26.0/24
Right Out: -2015.141+/-1602.279 χ²/NDF: 22.5/24
Left In: -255.905+/-1262.607 χ²/NDF:14.6/22
Left: 182.938+/-882.349 χ²/NDF: 40.9/47
Right: -1677.081+/-1195.054 χ²/NDF: 39.8/44
In: -586.262+/-1032.535 χ²/NDF:32.1/42
Out: -372.055+/-977.443 χ²/NDF:50.2/49
All: -473.292+/-709.834 χ²/NDF: 82.3/92


asym_usr_atr2_avg_dit_correction_rms vs Slug, Sign Corrected
10000
9000
8000
7000
6000
5000
4000
3000
100
120
140
160
180
200
Right In: 5403.296+/-1.269 χ²/NDF: 1300158.6/19
Left Out: 5321.956+/-0.872 χ²/NDF:1037009.2/24
Right Out: 5189.702+/-1.133 χ²/NDF: 2255270.2/24
Left In: 5302.849+/-0.893 χ²/NDF:1152376.1/22
Left: 5312.625+/-0.624 χ²/NDF: 2189619.6/47
Right: 5284.476+/-0.845 χ²/NDF: 3571199.0/44
In: 5336.121+/-0.730 χ²/NDF:2456727.5/42
Out: 5272.739+/-0.691 χ²/NDF:3300834.7/49
All: 5302.694+/-0.502 χ²/NDF: 5761536.7/92




Right In: 3259.983+/-534.615 $\chi^2$/NDF: 12.3/19

Left Out: 1679.156+/-362.392 $\chi^2$/NDF:19.0/24

Right Out: 1935.916+/-493.023 $\chi^2$/NDF: 24.2/24

Left In: 2740.666+/-370.605 $\chi^2$/NDF:19.2/22

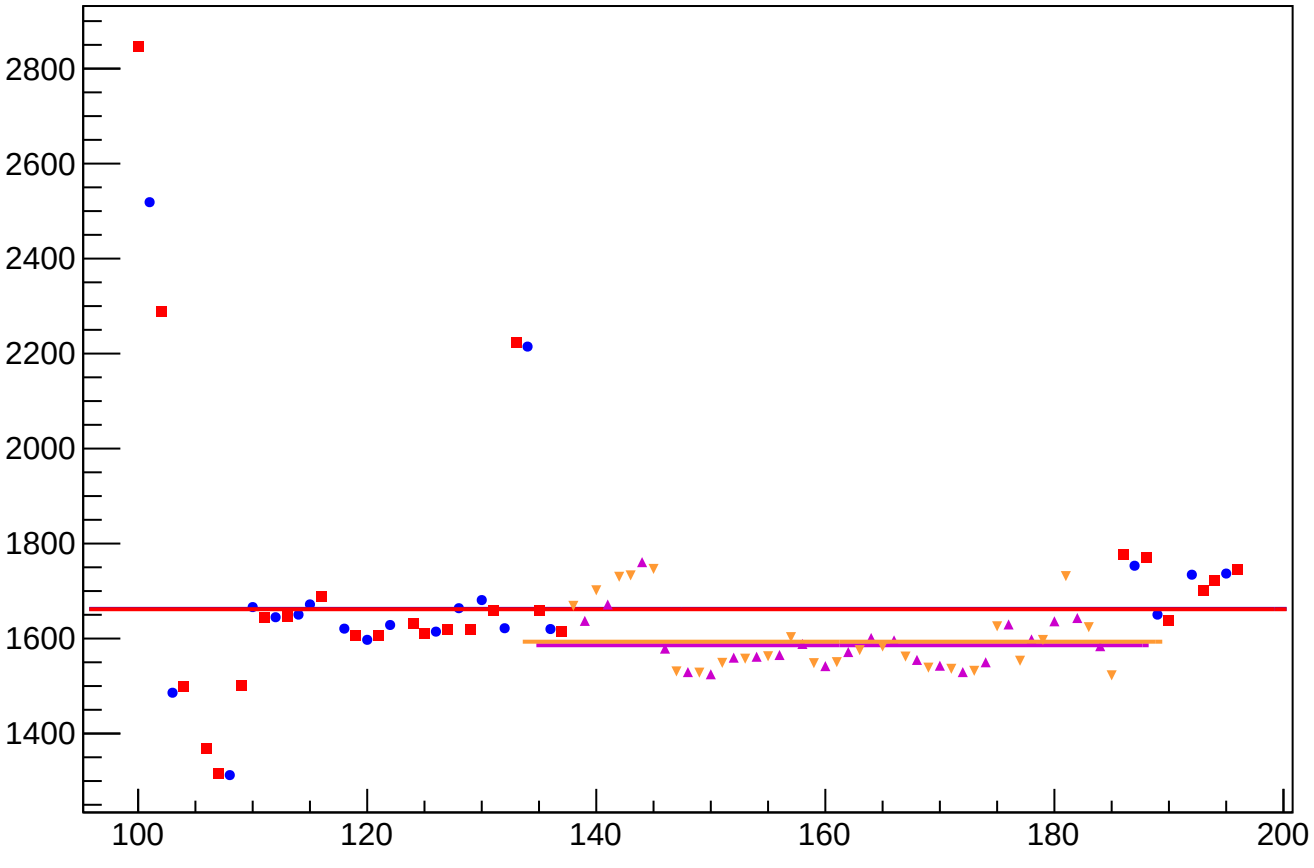
Left: 2198.019+/-259.104 $\chi^2$/NDF: 42.3/47

Right: 2544.448+/-362.433 $\chi^2$/NDF: 39.8/44

In: 2909.224+/-304.578 $\chi^2$/NDF:32.1/42

Out: 1769.219+/-291.997 $\chi^2$/NDF:43.3/49

All: 2315.190+/-210.780 $\chi^2$/NDF: 82.7/92




Right In: 1662.480+/-0.378 $\chi^2$/NDF: 284204.2/19

Left Out: 1593.388+/-0.256 $\chi^2$/NDF:71876.3/24

Right Out: 1661.759+/-0.348 $\chi^2$/NDF: 261947.9/24

Left In: 1585.919+/-0.262 $\chi^2$/NDF:41915.1/22

Left: 1589.737+/-0.183 $\chi^2$/NDF: 114206.7/47

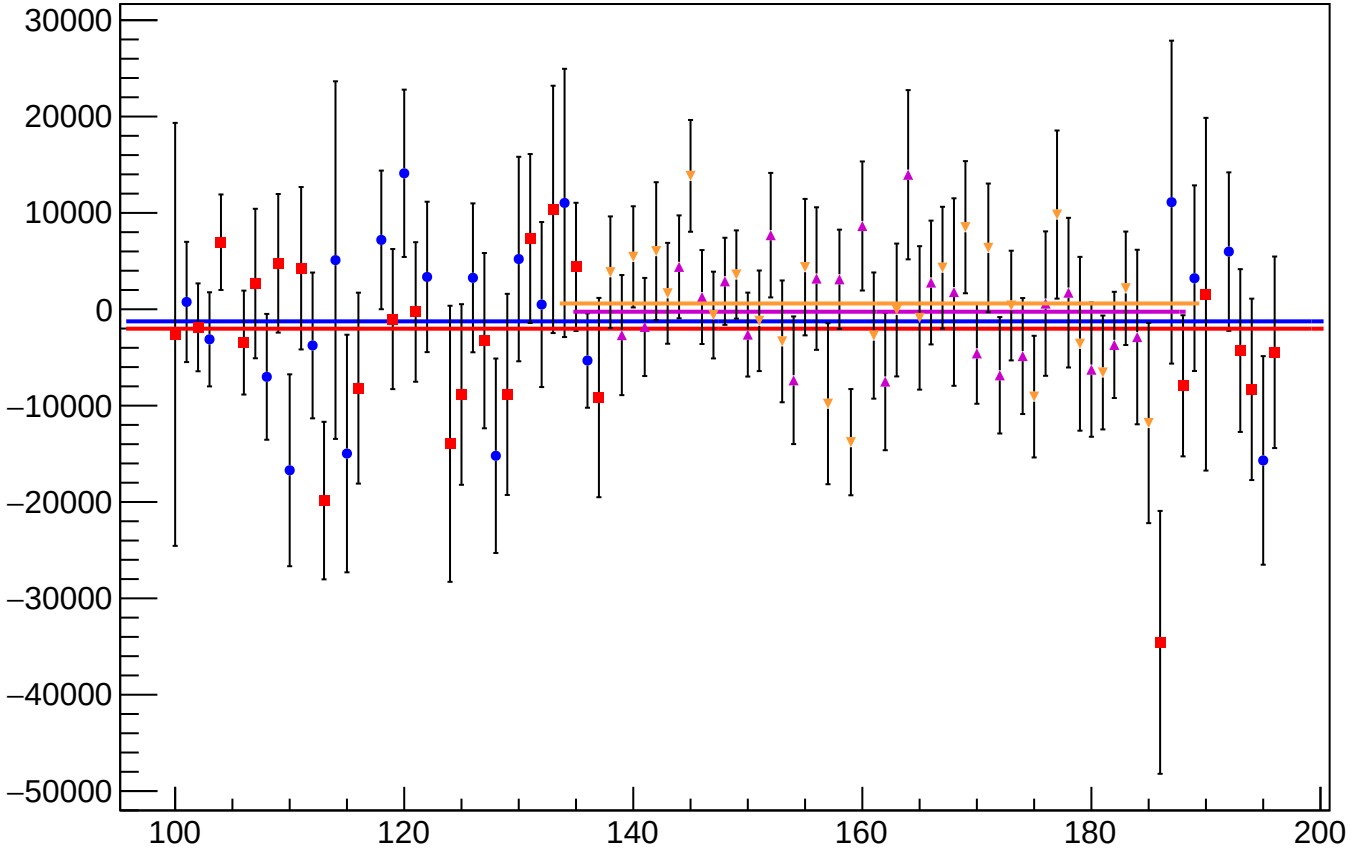
Right: 1662.090+/-0.256 $\chi^2$/NDF: 546154.2/44

In: 1610.769+/-0.215 $\chi^2$/NDF:353823.2/42

Out: 1617.389+/-0.206 $\chi^2$/NDF:358814.0/49

All: 1614.219+/-0.149 $\chi^2$/NDF: 713129.6/92

asym_usr_atr2_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1253.239+/-1794.056 $\chi^2$/NDF: 17.2/19

Left Out: 601.817+/-1233.561 $\chi^2$/NDF:26.0/24

Right Out: -2015.137+/-1602.277 $\chi^2$/NDF: 22.5/24

Left In: -255.907+/-1262.609 $\chi^2$/NDF:14.6/22

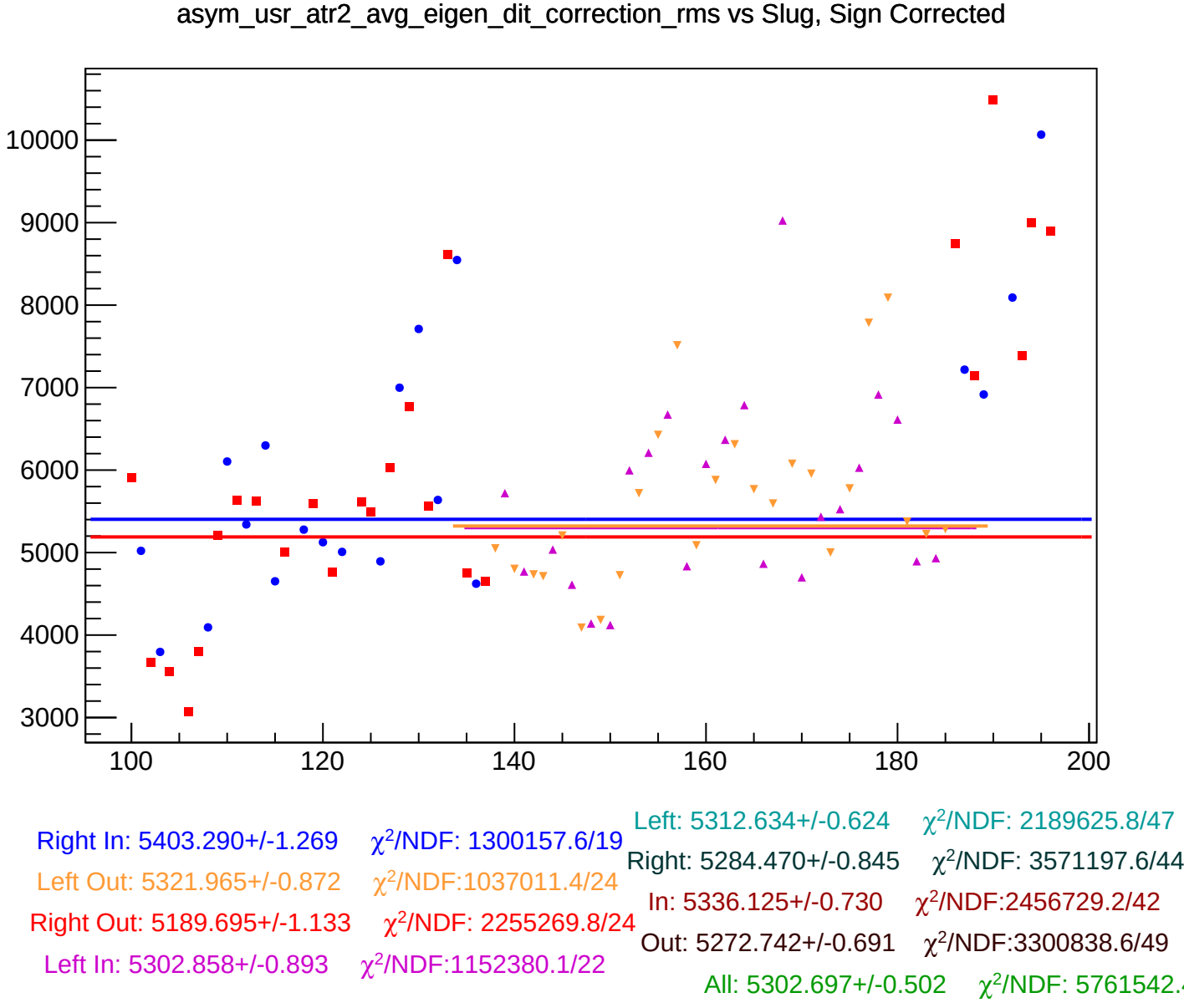
Left: 182.935+/-882.350 $\chi^2$/NDF: 40.9/47

Right: -1677.073+/-1195.053 $\chi^2$/NDF: 39.8/44

In: -586.260+/-1032.536 $\chi^2$/NDF:32.1/42

Out: -372.060+/-977.443 $\chi^2$/NDF:50.2/49

All: -473.293+/-709.834 $\chi^2$/NDF: 82.3/92


asym_usr_atr2_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
10000
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8000
7000
6000
5000
4000
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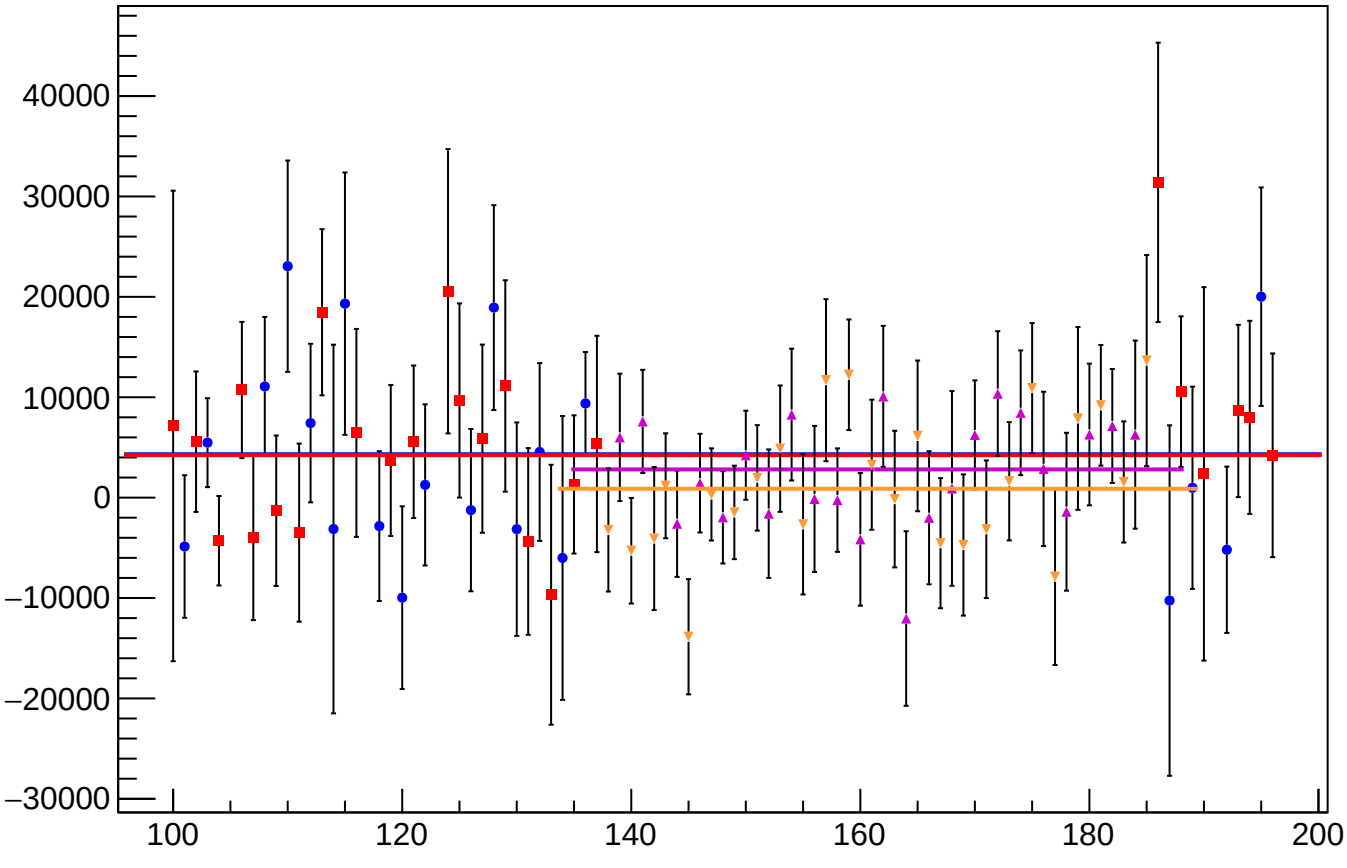
100
120
140
160
180
200
Right In: 5403.290+/-1.269 χ²/NDF: 1300157.6/19
Left Out: 5321.965+/-0.872 χ²/NDF:1037011.4/24
Right Out: 5189.695+/-1.133 χ²/NDF: 2255269.8/24
Left In: 5302.858+/-0.893 χ²/NDF:1152380.1/22
Left: 5312.634+/-0.624 χ²/NDF: 2189625.8/47
Right: 5284.470+/-0.845 χ²/NDF: 3571197.6/44
In: 5336.125+/-0.730 χ²/NDF:2456729.2/42
Out: 5272.742+/-0.691 χ²/NDF:3300838.6/49
All: 5302.697+/-0.502 χ²/NDF: 5761542.4/92




Right In: 4319.747+/-1835.361 $\chi^2$/NDF: 19.8/19

Left Out: 885.482+/-1246.500 $\chi^2$/NDF:25.7/24

Right Out: 4232.311+/-1709.977 $\chi^2$/NDF: 19.2/24

Left In: 2810.702+/-1277.225 $\chi^2$/NDF:14.7/22

Left: 1824.657+/-892.073 $\chi^2$/NDF: 41.5/47

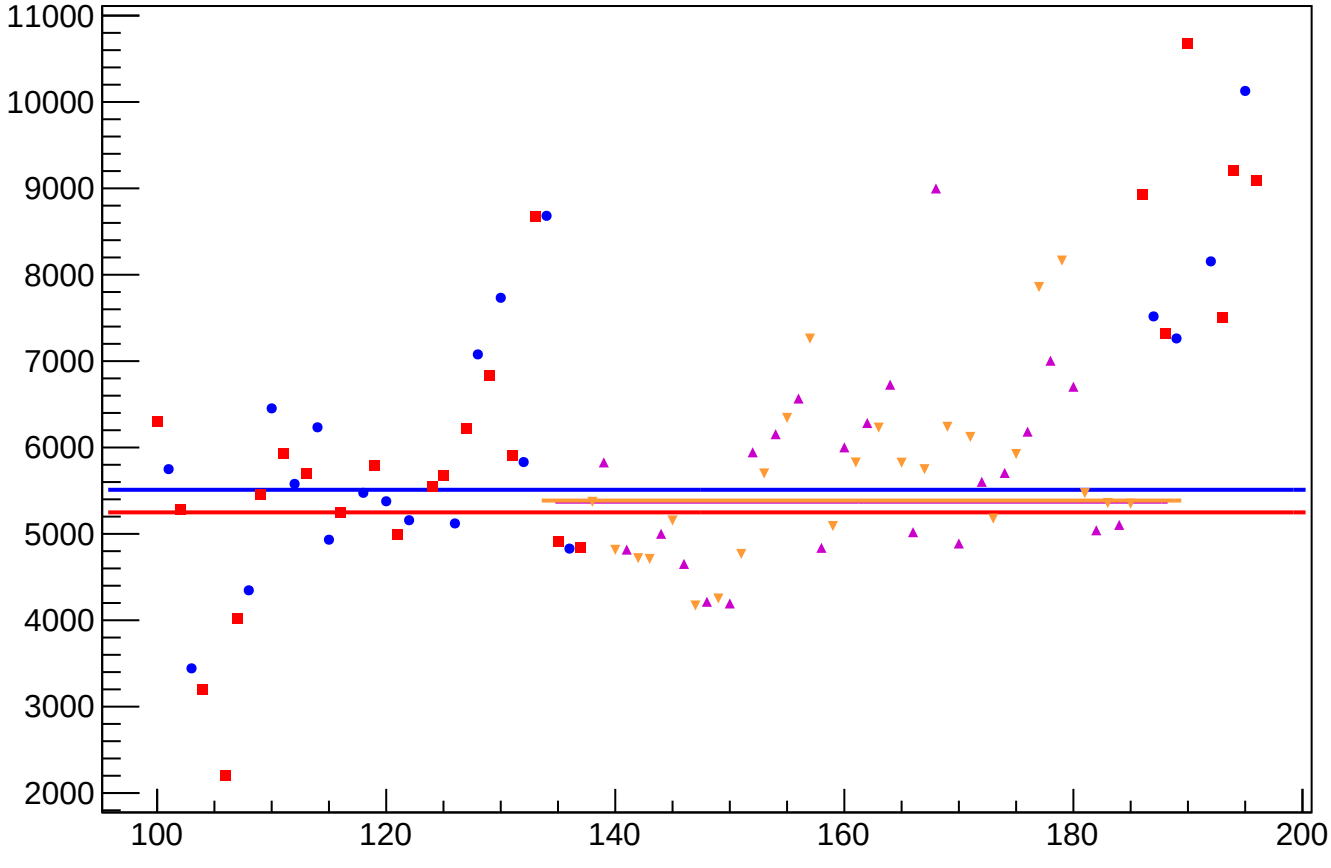
Right: 4272.940+/-1251.116 $\chi^2$/NDF: 39.0/44

In: 3303.058+/-1048.359 $\chi^2$/NDF:34.9/42

Out: 2046.810+/-1007.282 $\chi^2$/NDF:47.4/49

All: 2649.841+/-726.344 $\chi^2$/NDF: 83.1/92

# asym_usr_atr2_avg_rms vs Slug, Sign Corrected




Right In: 5510.505+/-1.298 $\chi^2$/NDF: 1449984.5/19

Left Out: 5385.653+/-0.881 $\chi^2$/NDF:987089.3/24

Right Out: 5249.034+/-1.171 $\chi^2$/NDF: 2787755.7/24

Left In: 5372.867+/-0.903 $\chi^2$/NDF:1071821.2/22

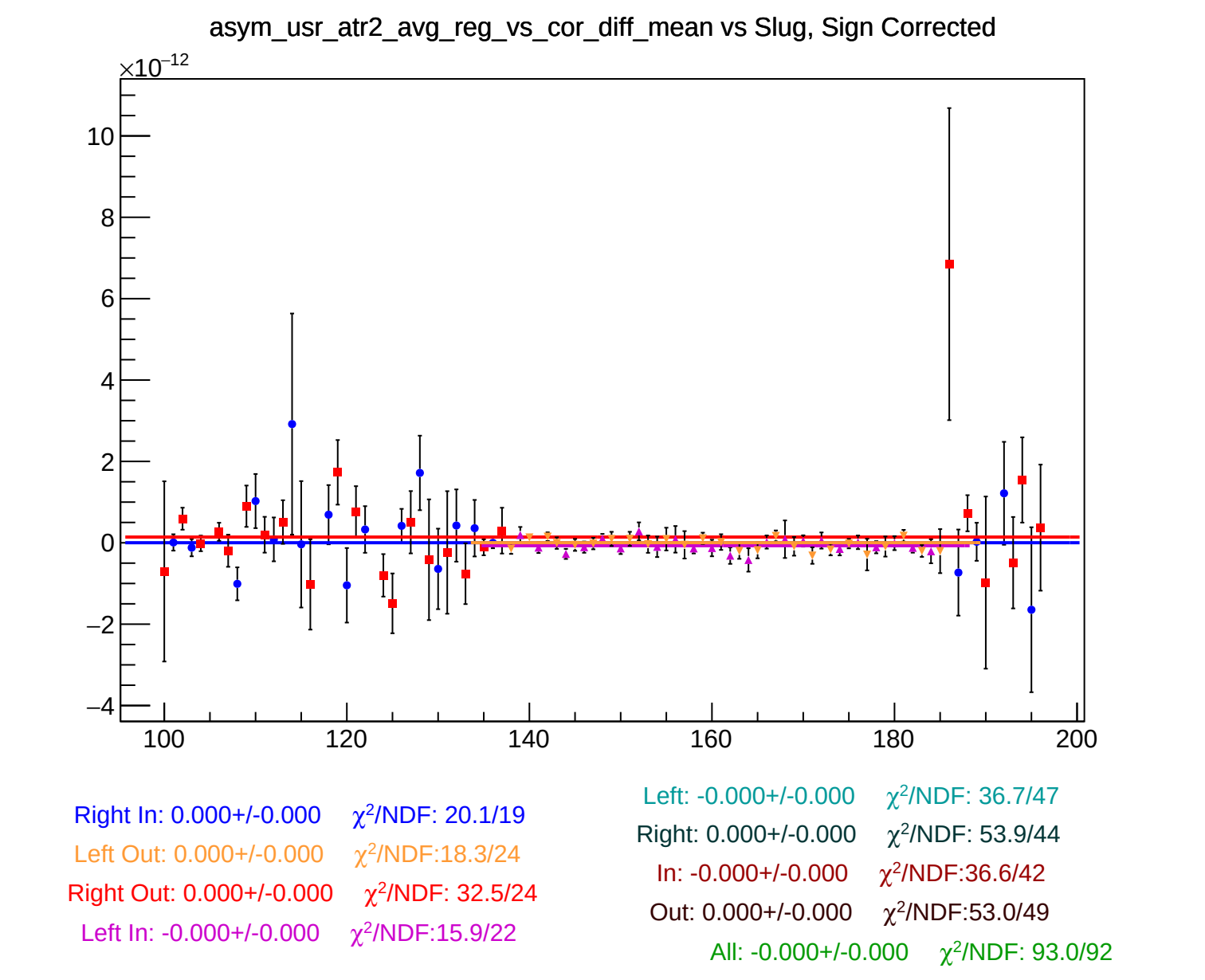
Left: 5379.416+/-0.631 $\chi^2$/NDF: 2059013.2/47

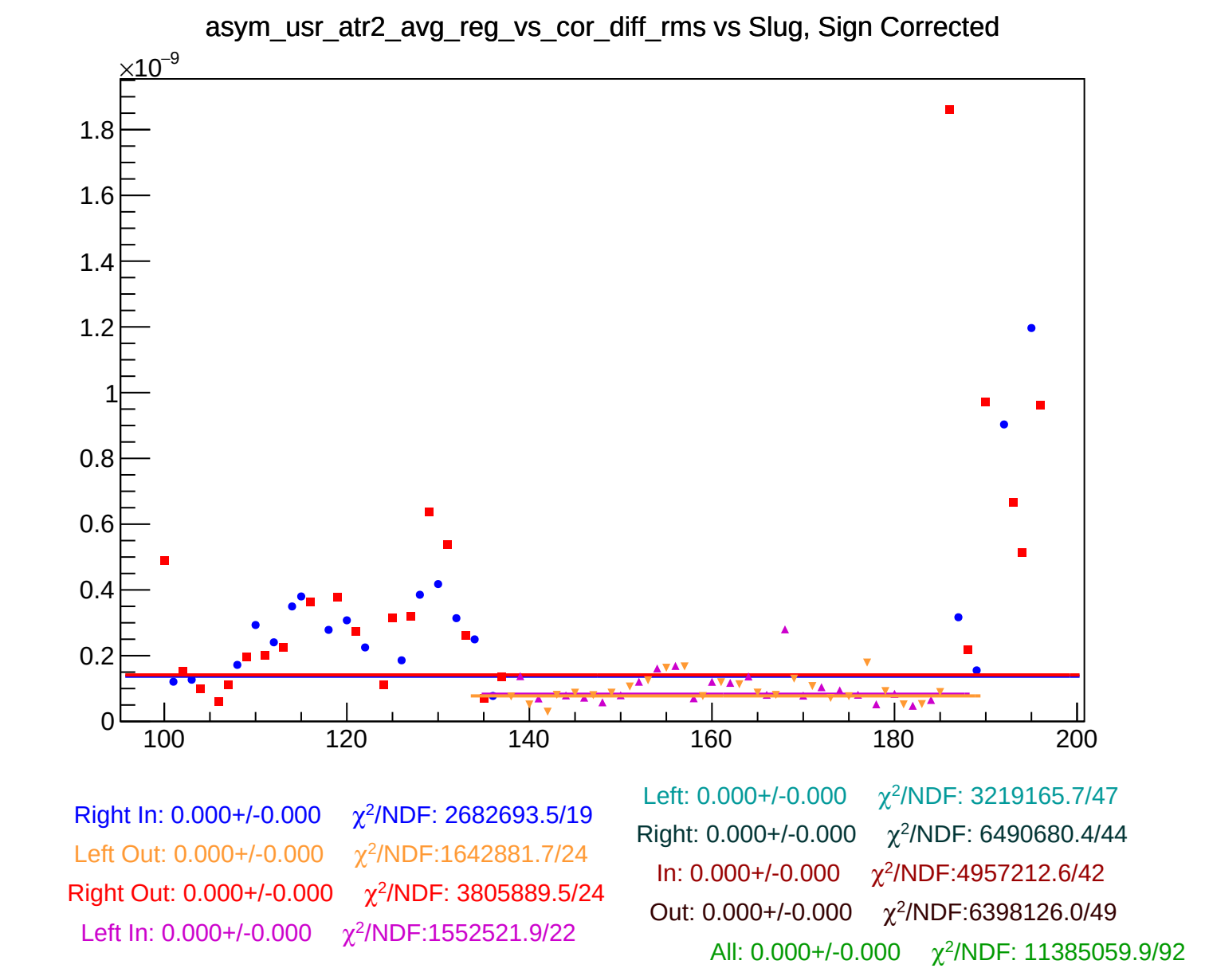
Right: 5366.325+/-0.869 $\chi^2$/NDF: 4260123.0/44

In: 5417.774+/-0.741 $\chi^2$/NDF:2529383.7/42

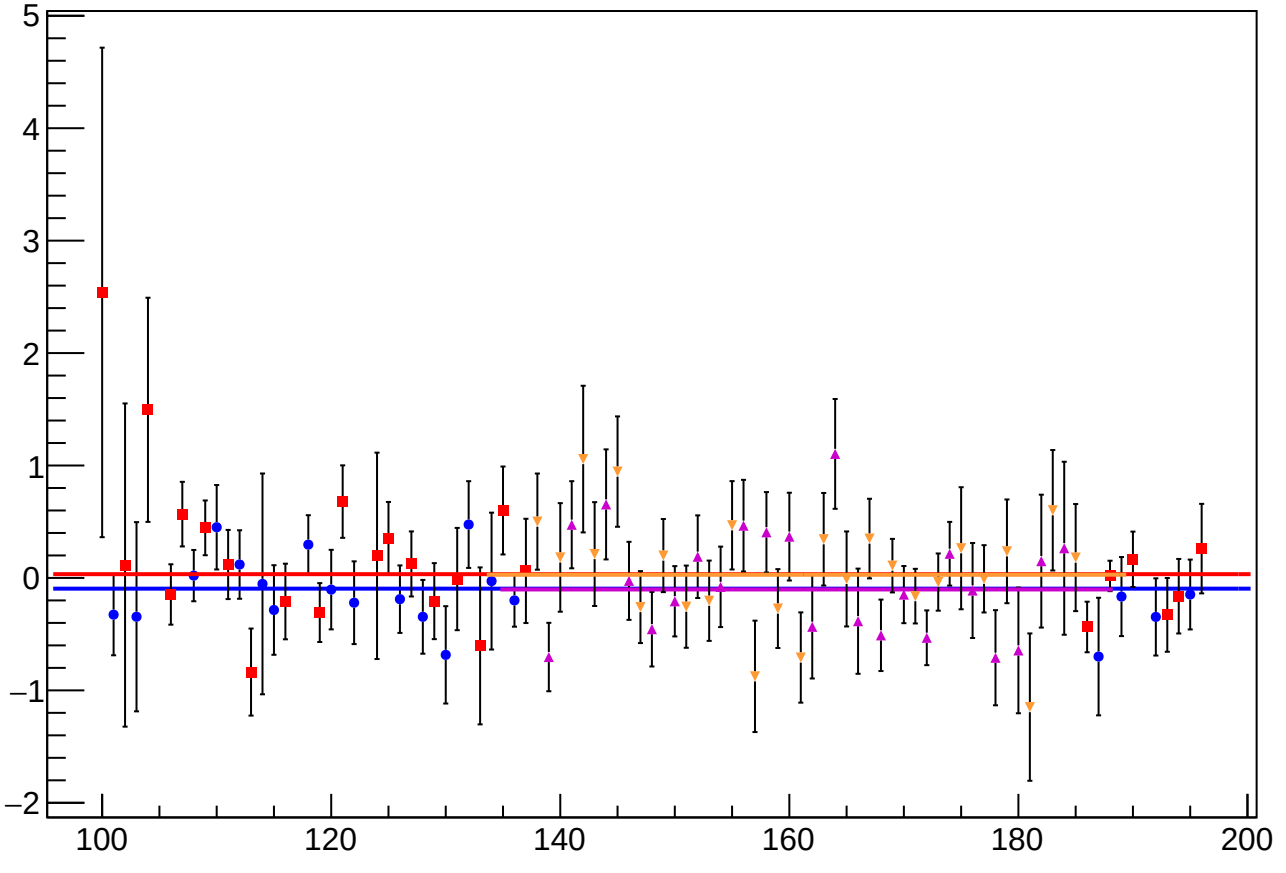
Out: 5336.219+/-0.704 $\chi^2$/NDF:3783538.2/49

All: 5374.900+/-0.511 $\chi^2$/NDF: 6319284.8/92


asym_usr_atr2_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
10
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 20.1/19
Left Out: 0.000+/-0.000 χ²/NDF:18.3/24
Right Out: 0.000+/-0.000 χ²/NDF: 32.5/24
Left In: -0.000+/-0.000 χ²/NDF:15.9/22
Left: -0.000+/-0.000 χ²/NDF: 36.7/47
Right: 0.000+/-0.000 χ²/NDF: 53.9/44
In: -0.000+/-0.000 χ²/NDF:36.6/42
Out: 0.000+/-0.000 χ²/NDF:53.0/49
All: -0.000+/-0.000 χ²/NDF: 93.0/92


asym_usr_atr2_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2682693.5/19
Left Out: 0.000+/-0.000 χ²/NDF:1642881.7/24
Right Out: 0.000+/-0.000 χ²/NDF: 3805889.5/24
Left In: 0.000+/-0.000 χ²/NDF:1552521.9/22
Left: 0.000+/-0.000 χ²/NDF: 3219165.7/47
Right: 0.000+/-0.000 χ²/NDF: 6490680.4/44
In: 0.000+/-0.000 χ²/NDF:4957212.6/42
Out: 0.000+/-0.000 χ²/NDF:6398126.0/49
All: 0.000+/-0.000 χ²/NDF: 11385059.9/92

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.077 $\chi^2$/NDF: 12.8/19

Left Out: 0.029+/-0.075 $\chi^2$/NDF:25.3/24

Right Out: 0.034+/-0.062 $\chi^2$/NDF: 32.7/24

Left In: -0.103+/-0.076 $\chi^2$/NDF:32.3/22

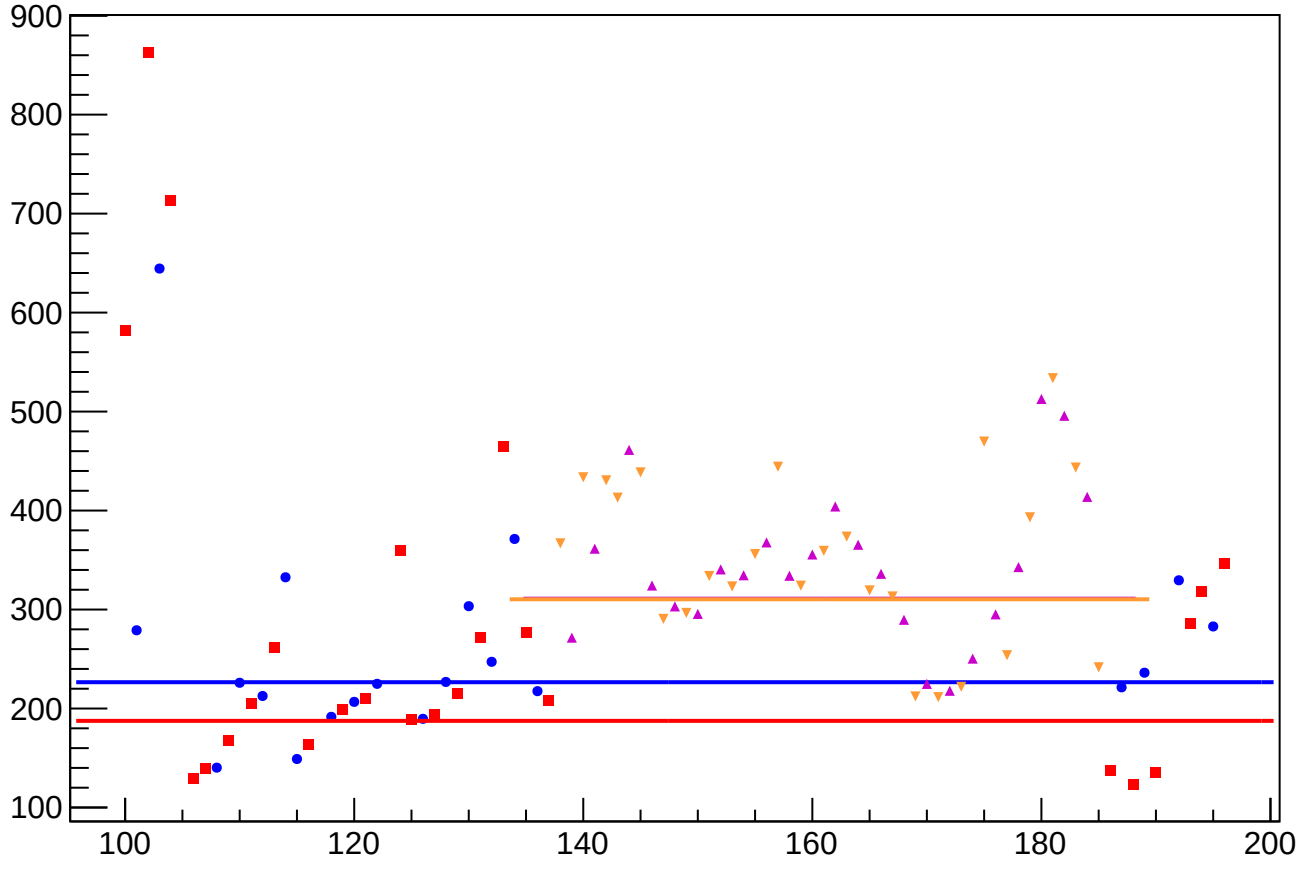
Left: -0.036+/-0.053 $\chi^2$/NDF: 59.1/47

Right: -0.017+/-0.048 $\chi^2$/NDF: 47.2/44

In: -0.099+/-0.054 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.048 $\chi^2$/NDF:58.1/49

All: -0.025+/-0.036 $\chi^2$/NDF: 106.4/92




Right In: 226.590+/-0.055 $\chi^2$/NDF: 1429537.9/19

Left Out: 310.359+/-0.053 $\chi^2$/NDF:2363086.4/24

Right Out: 187.535+/-0.044 $\chi^2$/NDF: 3359461.9/24

Left In: 310.960+/-0.054 $\chi^2$/NDF:1600370.0/22

Left: 310.653+/-0.038 $\chi^2$/NDF: 3963519.7/47

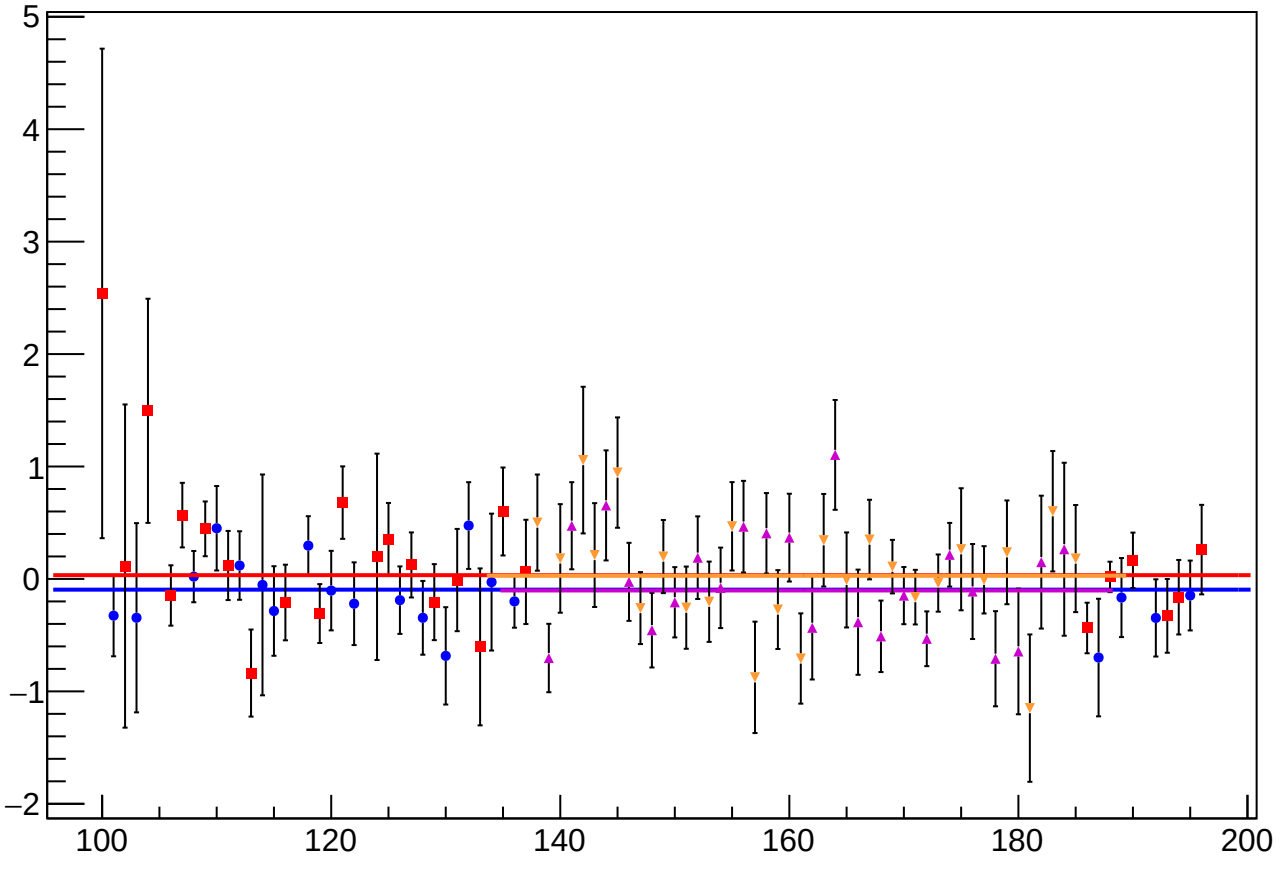
Right: 202.835+/-0.034 $\chi^2$/NDF: 5099758.3/44

In: 269.335+/-0.038 $\chi^2$/NDF:4237880.3/42

Out: 237.674+/-0.034 $\chi^2$/NDF:8925102.2/49

All: 251.474+/-0.025 $\chi^2$/NDF: 13546909.5/92

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.077 $\chi^2$/NDF: 12.8/19

Left Out: 0.029+/-0.075 $\chi^2$/NDF:25.3/24

Right Out: 0.034+/-0.062 $\chi^2$/NDF: 32.7/24

Left In: -0.103+/-0.076 $\chi^2$/NDF:32.3/22

Left: -0.036+/-0.053 $\chi^2$/NDF: 59.1/47

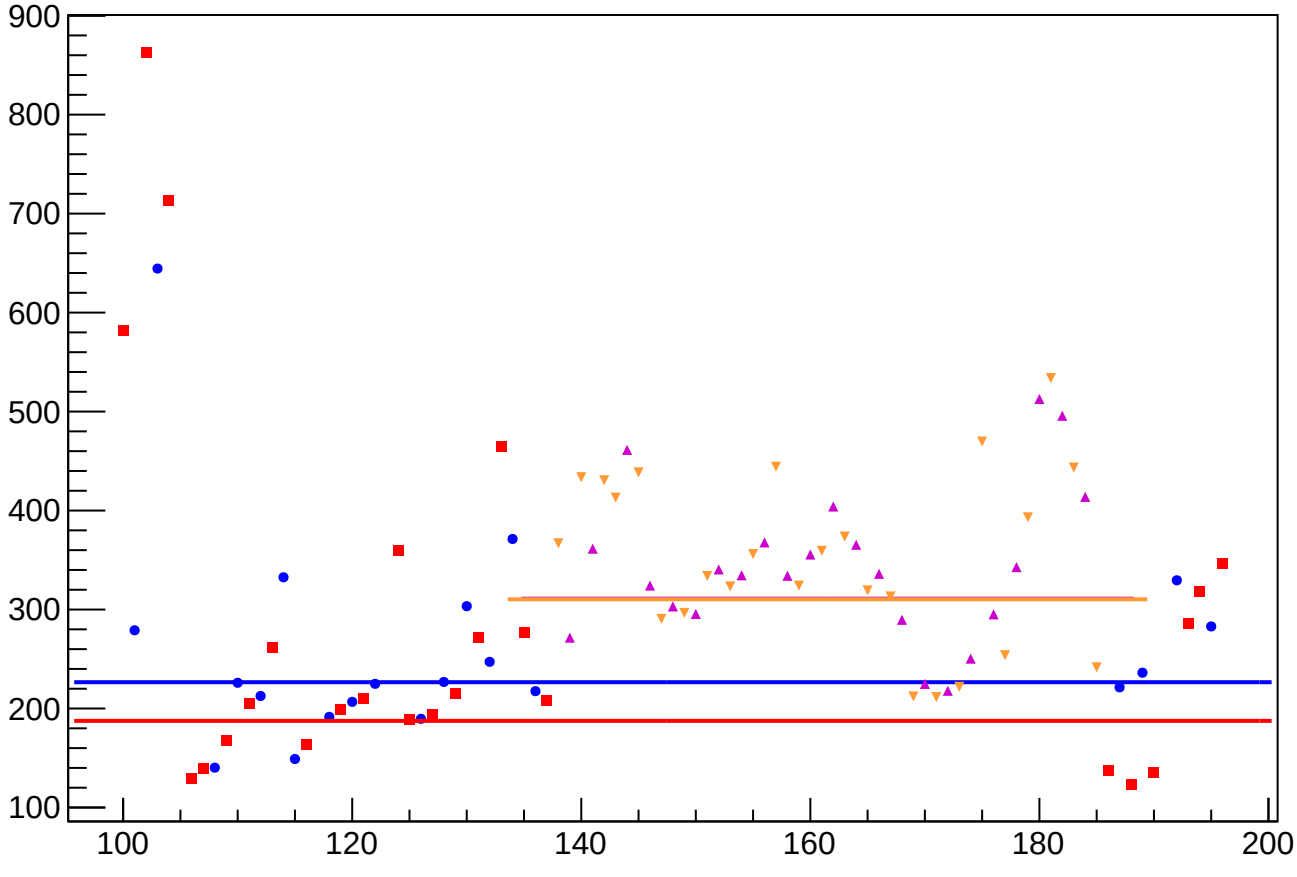
Right: -0.017+/-0.048 $\chi^2$/NDF: 47.2/44

In: -0.099+/-0.054 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.048 $\chi^2$/NDF:58.1/49

All: -0.025+/-0.036 $\chi^2$/NDF: 106.4/92

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 226.590+/-0.055 $\chi^2$/NDF: 1429537.9/19

Left Out: 310.359+/-0.053 $\chi^2$/NDF:2363086.4/24

Right Out: 187.535+/-0.044 $\chi^2$/NDF: 3359461.9/24

Left In: 310.960+/-0.054 $\chi^2$/NDF:1600370.0/22

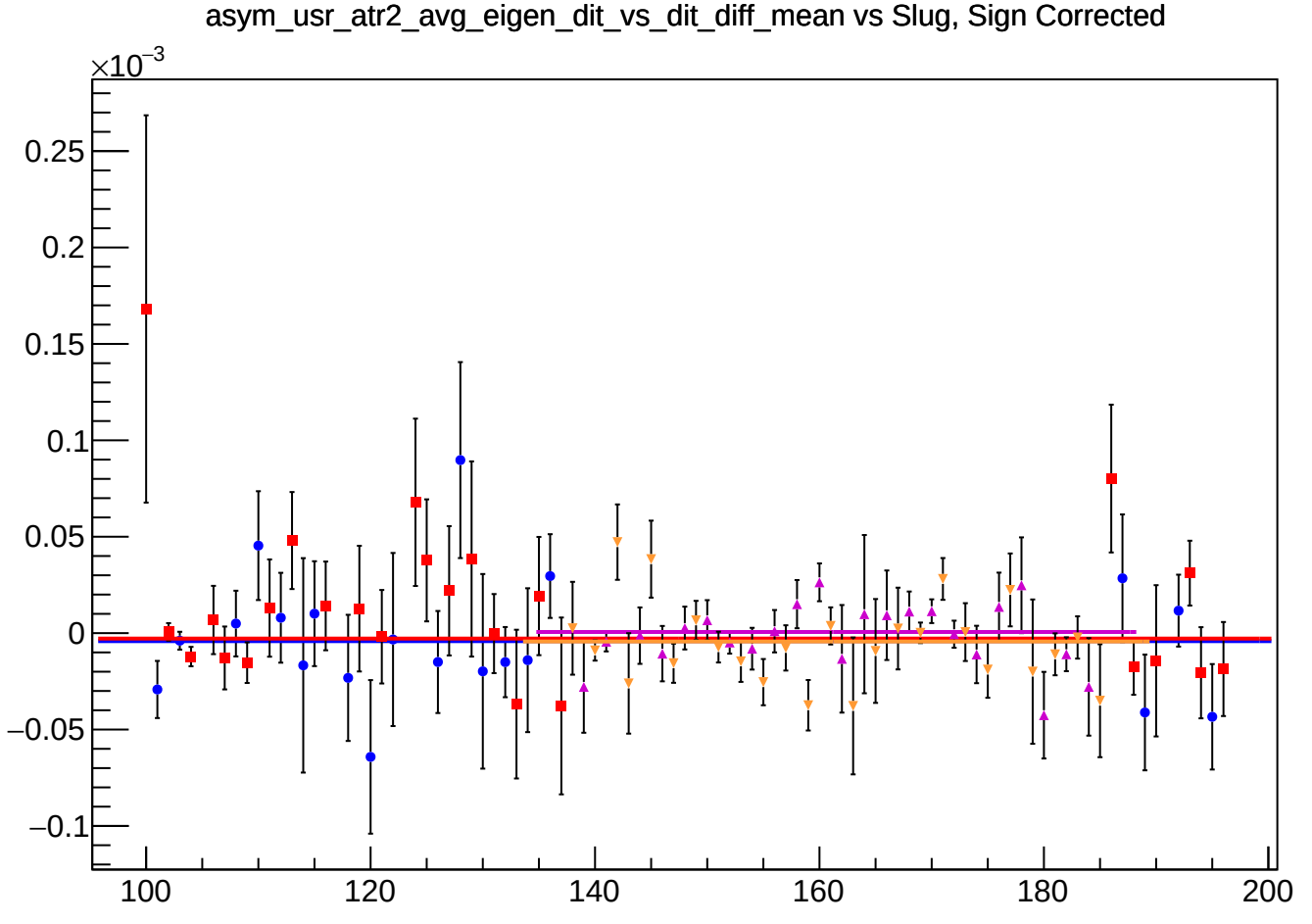
Left: 310.653+/-0.038 $\chi^2$/NDF: 3963519.7/47

Right: 202.835+/-0.034 $\chi^2$/NDF: 5099758.3/44

In: 269.335+/-0.038 $\chi^2$/NDF:4237880.3/42

Out: 237.674+/-0.034 $\chi^2$/NDF:8925102.2/49

All: 251.474+/-0.025 $\chi^2$/NDF: 13546909.5/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.2/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:42.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.5/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.6/22

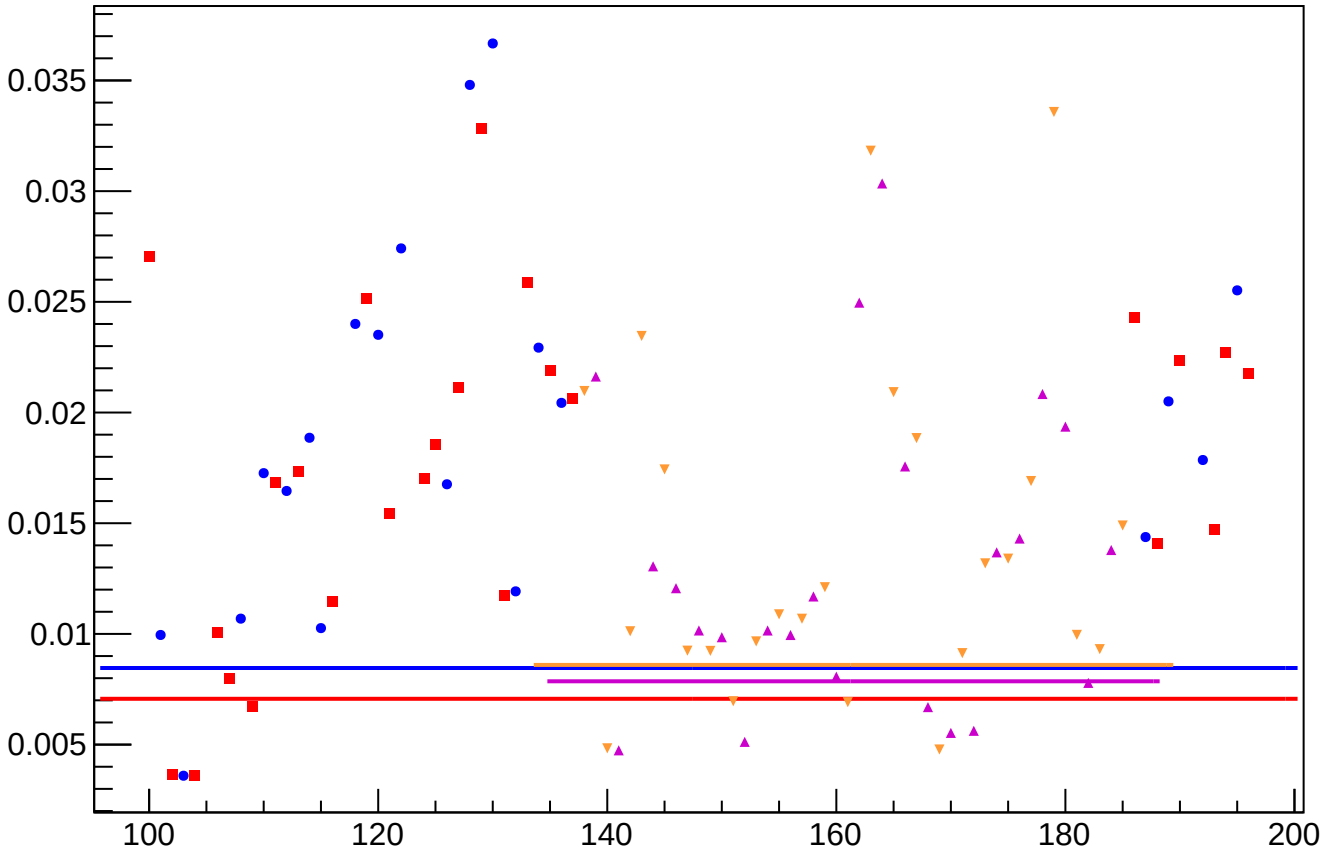
Left: -0.000+/-0.000 $\chi^2$/NDF: 71.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.8/44

In: -0.000+/-0.000 $\chi^2$/NDF:49.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:74.9/49

All: -0.000+/-0.000 $\chi^2$/NDF: 125.5/92




Right In: 0.008+/-0.000 $\chi^2$/NDF: 7883248.7/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:7653564.7/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 9408894.9/24

Left In: 0.008+/-0.000 $\chi^2$/NDF:6779815.5/22

Left: 0.008+/-0.000 $\chi^2$/NDF: 14546579.4/47

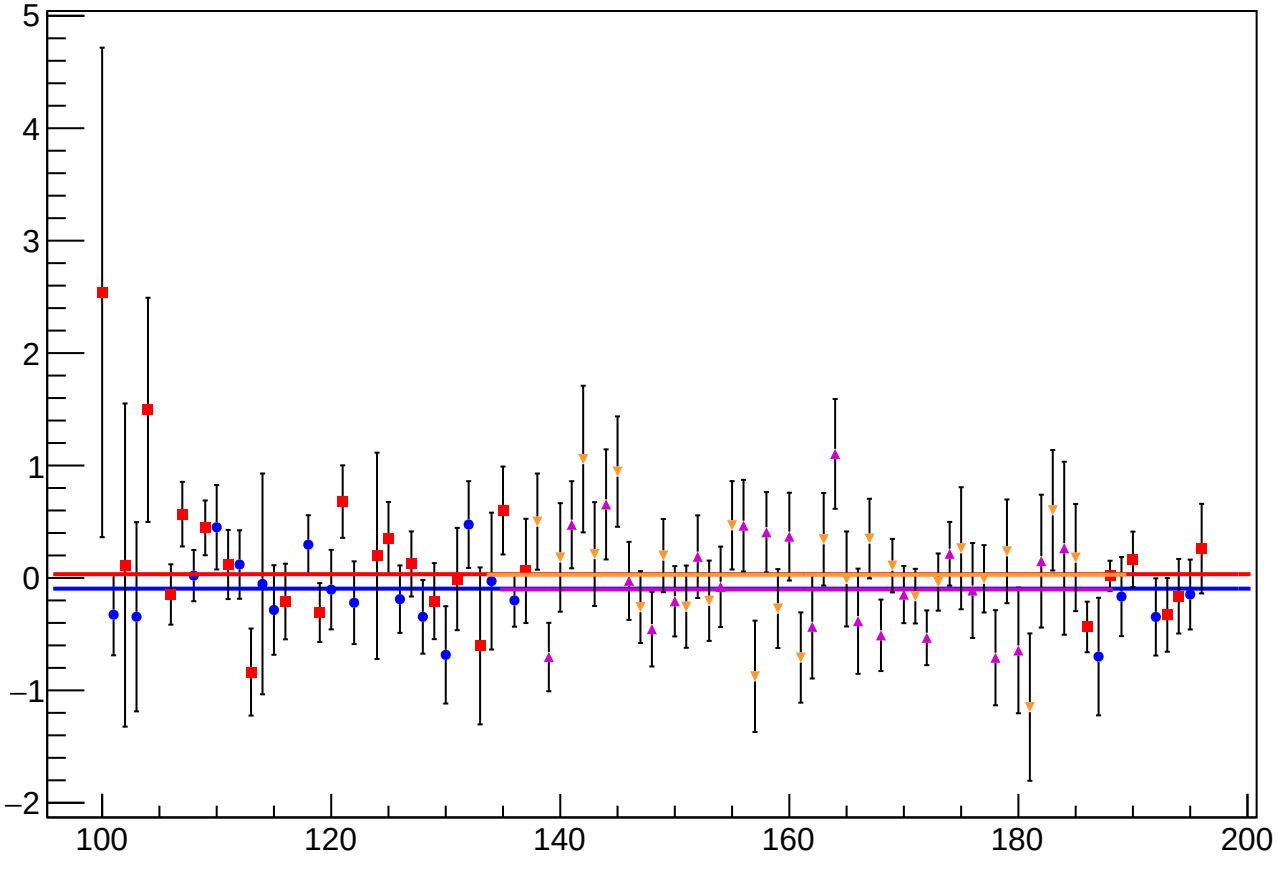
Right: 0.008+/-0.000 $\chi^2$/NDF: 17478657.0/44

In: 0.008+/-0.000 $\chi^2$/NDF:14703597.5/42

Out: 0.008+/-0.000 $\chi^2$/NDF:17433505.5/49

All: 0.008+/-0.000 $\chi^2$/NDF: 32137359.7/92

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.077 $\chi^2$/NDF: 12.8/19

Left Out: 0.029+/-0.075 $\chi^2$/NDF:25.3/24

Right Out: 0.034+/-0.062 $\chi^2$/NDF: 32.7/24

Left In: -0.103+/-0.076 $\chi^2$/NDF:32.3/22

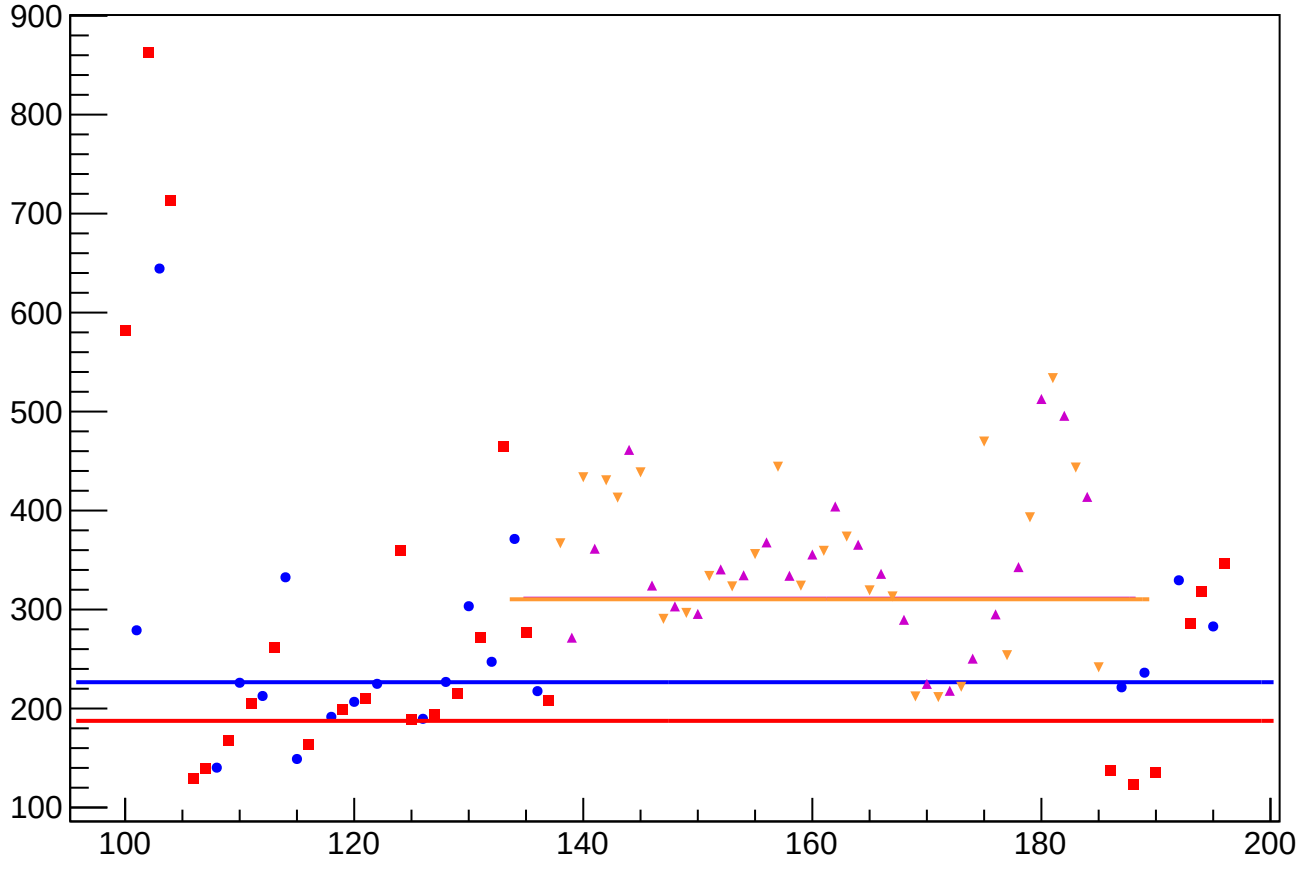
Left: -0.036+/-0.053 $\chi^2$/NDF: 59.1/47

Right: -0.017+/-0.048 $\chi^2$/NDF: 47.2/44

In: -0.099+/-0.054 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.048 $\chi^2$/NDF:58.1/49

All: -0.025+/-0.036 $\chi^2$/NDF: 106.4/92




Right In: 226.589+/-0.055 $\chi^2$/NDF: 1429510.3/19

Left Out: 310.362+/-0.053 $\chi^2$/NDF:2363148.8/24

Right Out: 187.532+/-0.044 $\chi^2$/NDF: 3359549.2/24

Left In: 310.963+/-0.054 $\chi^2$/NDF:1600401.1/22

Left: 310.656+/-0.038 $\chi^2$/NDF: 3963613.3/47

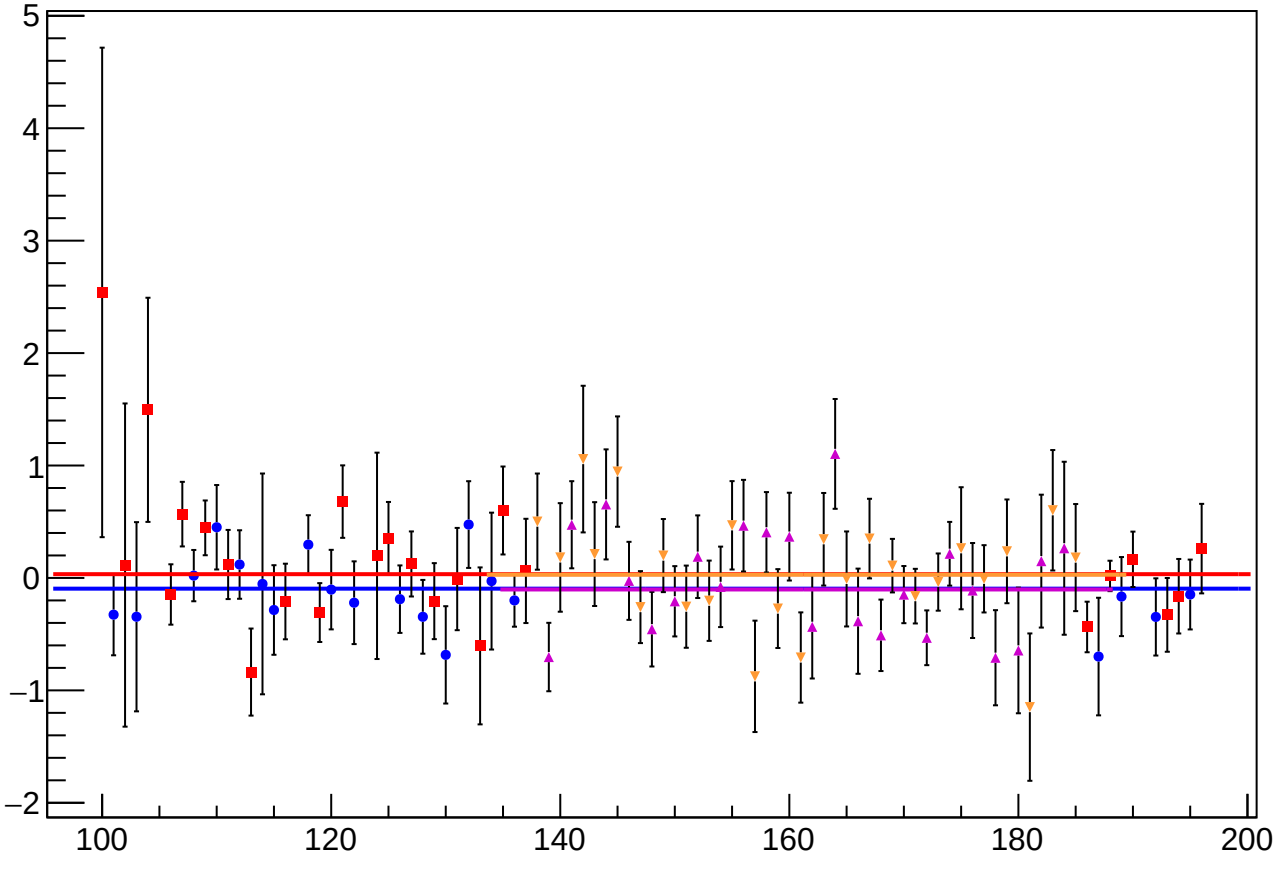
Right: 202.833+/-0.034 $\chi^2$/NDF: 5099850.7/44

In: 269.335+/-0.038 $\chi^2$/NDF:4238006.0/42

Out: 237.673+/-0.034 $\chi^2$/NDF:8925558.6/49

All: 251.473+/-0.025 $\chi^2$/NDF: 13547544.3/92

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.095+/-0.077 $\chi^2$/NDF: 12.8/19

Left Out: 0.029+/-0.075 $\chi^2$/NDF:25.3/24

Right Out: 0.034+/-0.062 $\chi^2$/NDF: 32.7/24

Left In: -0.103+/-0.076 $\chi^2$/NDF:32.3/22

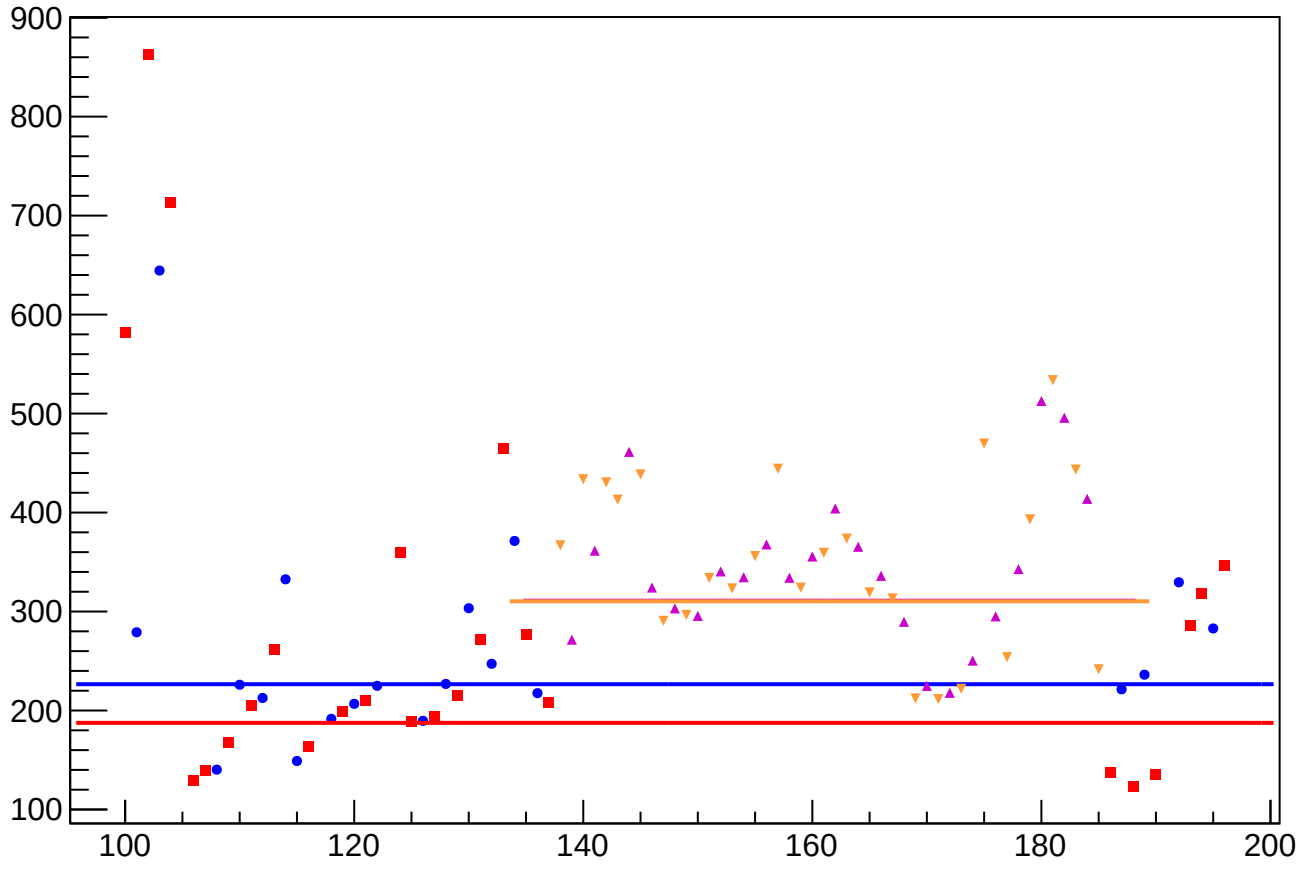
Left: -0.036+/-0.053 $\chi^2$/NDF: 59.1/47

Right: -0.017+/-0.048 $\chi^2$/NDF: 47.2/44

In: -0.099+/-0.054 $\chi^2$/NDF:45.1/42

Out: 0.032+/-0.048 $\chi^2$/NDF:58.1/49

All: -0.025+/-0.036 $\chi^2$/NDF: 106.4/92




Right In: 226.589+/-0.055 $\chi^2$/NDF: 1429510.3/19

Left Out: 310.362+/-0.053 $\chi^2$/NDF:2363148.8/24

Right Out: 187.532+/-0.044 $\chi^2$/NDF: 3359549.2/24

Left In: 310.963+/-0.054 $\chi^2$/NDF:1600401.1/22

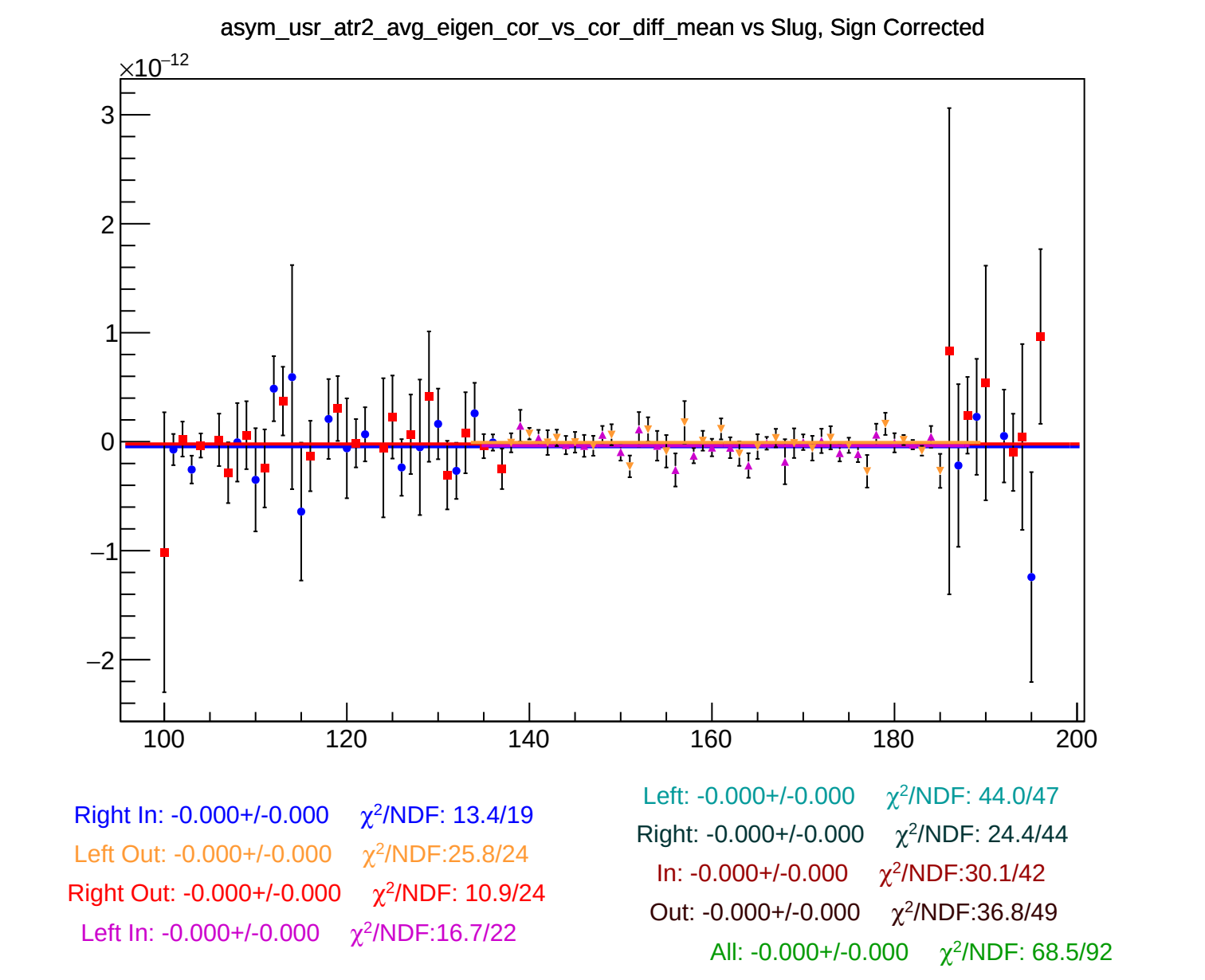
Left: 310.656+/-0.038 $\chi^2$/NDF: 3963613.3/47

Right: 202.833+/-0.034 $\chi^2$/NDF: 5099850.7/44

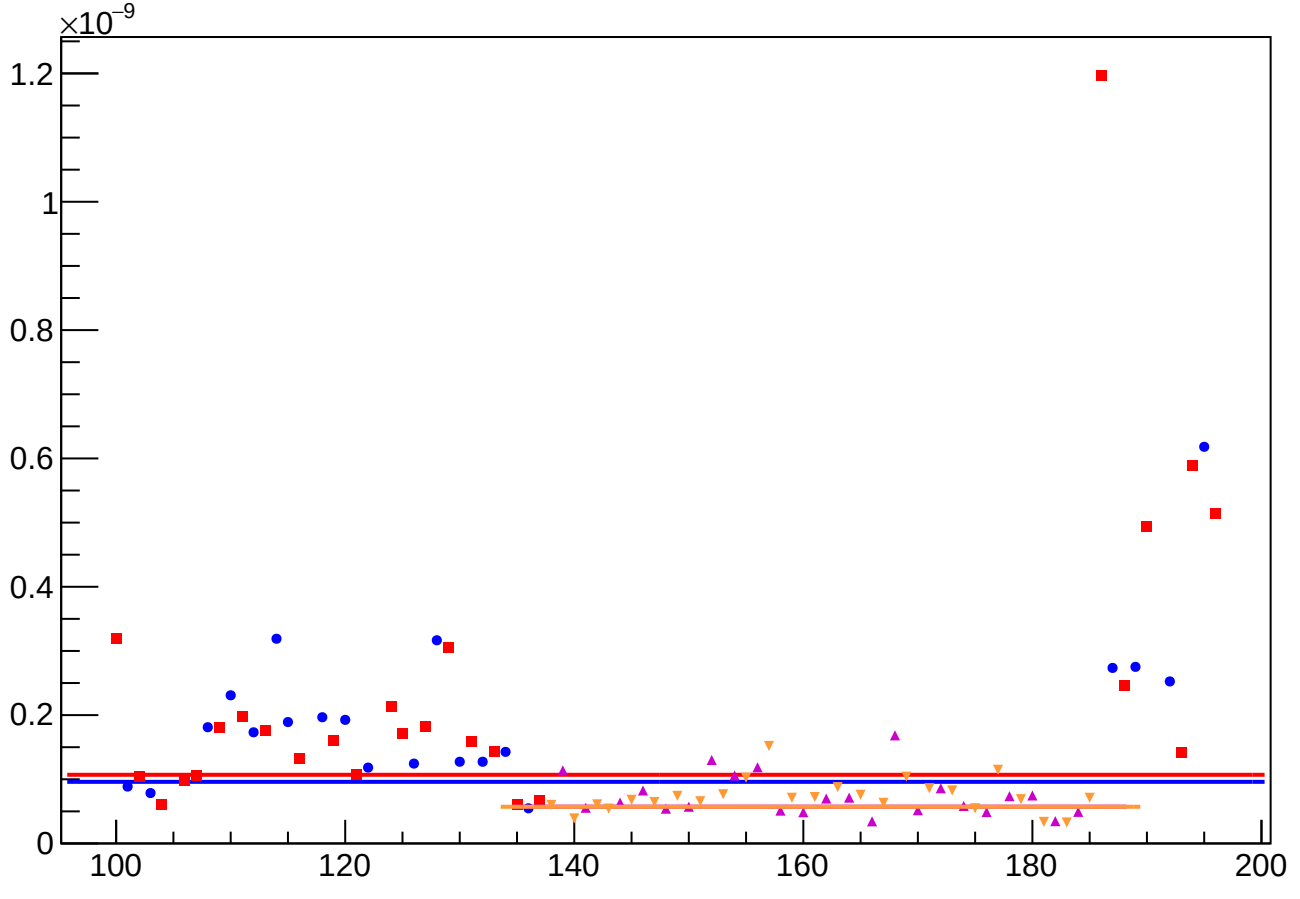
In: 269.335+/-0.038 $\chi^2$/NDF:4238006.0/42

Out: 237.673+/-0.034 $\chi^2$/NDF:8925558.6/49

All: 251.473+/-0.025 $\chi^2$/NDF: 13547544.3/92


asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 13.4/19
Left Out: -0.000+/-0.000 χ²/NDF:25.8/24
Right Out: -0.000+/-0.000 χ²/NDF: 10.9/24
Left In: -0.000+/-0.000 χ²/NDF:16.7/22
Left: -0.000+/-0.000 χ²/NDF: 44.0/47
Right: -0.000+/-0.000 χ²/NDF: 24.4/44
In: -0.000+/-0.000 χ²/NDF:30.1/42
Out: -0.000+/-0.000 χ²/NDF:36.8/49
All: -0.000+/-0.000 χ²/NDF: 68.5/92

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3033763.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3337849.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3977696.5/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:3299416.7/22

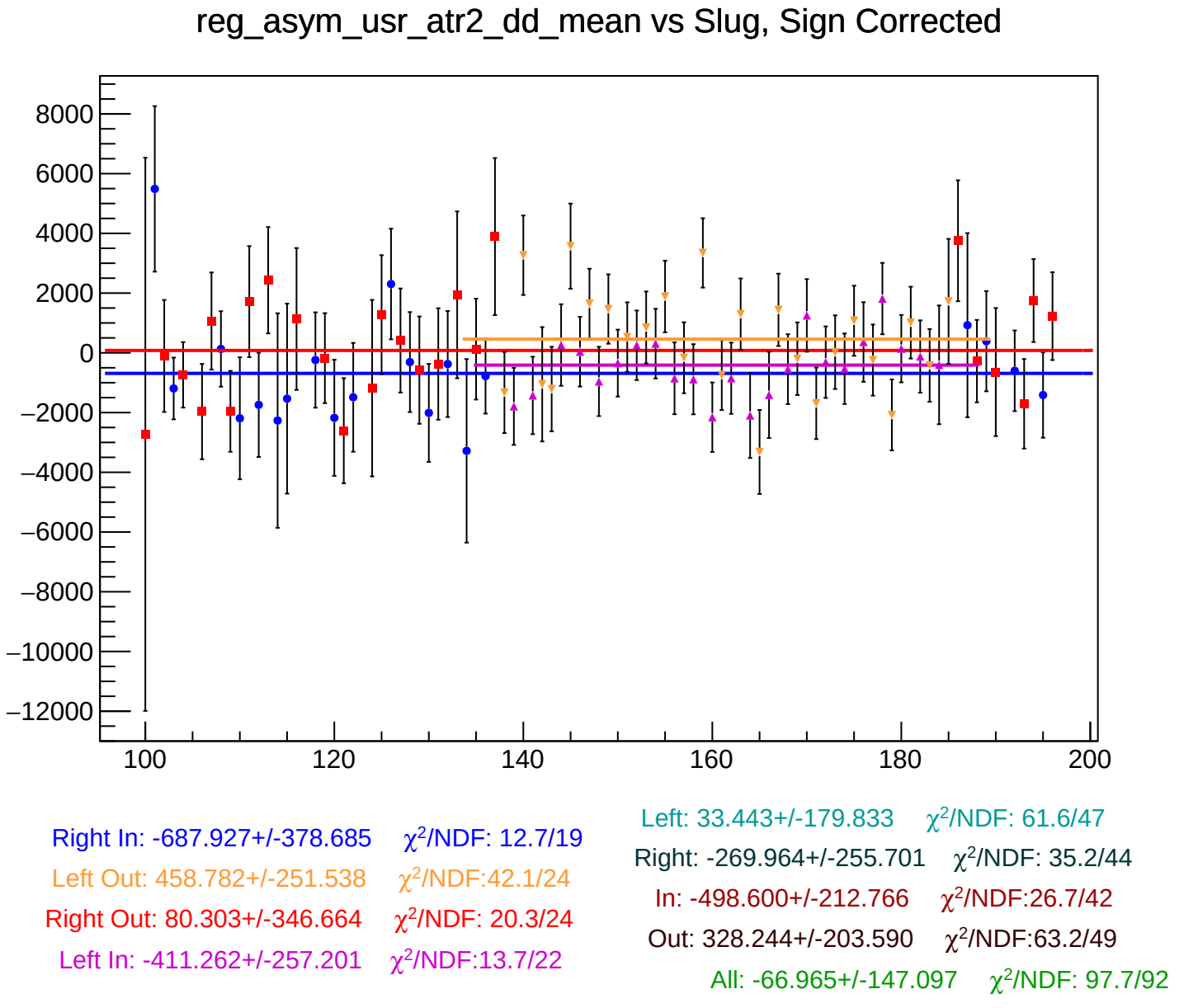
Left: 0.000+/-0.000 $\chi^2$/NDF: 6637359.5/47

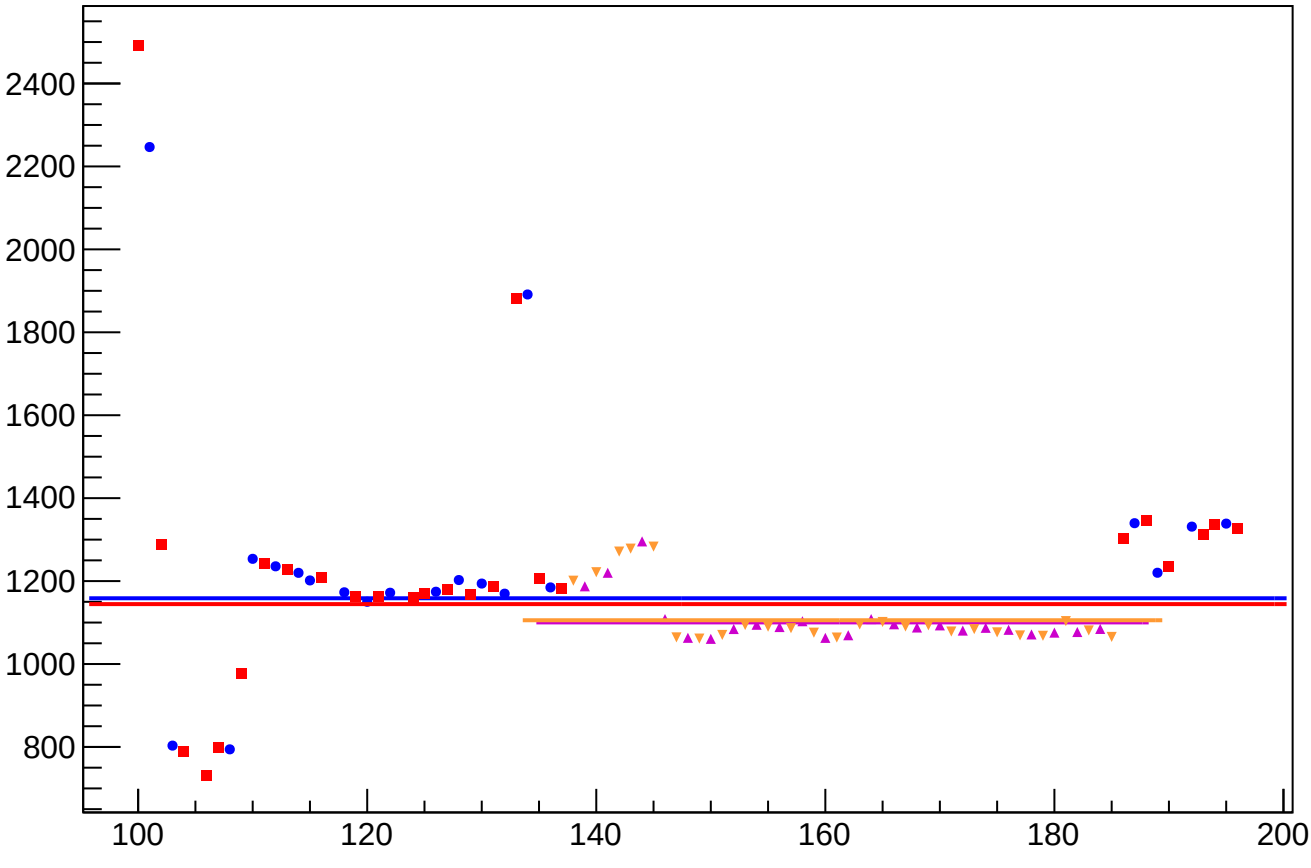
Right: 0.000+/-0.000 $\chi^2$/NDF: 7059742.7/44

In: 0.000+/-0.000 $\chi^2$/NDF:7428890.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9049741.8/49

All: 0.000+/-0.000 $\chi^2$/NDF: 16479878.4/92


reg_asym_usr_atr2_dd_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -687.927+/-378.685 χ²/NDF: 12.7/19
Left Out: 458.782+/-251.538 χ²/NDF:42.1/24
Right Out: 80.303+/-346.664 χ²/NDF: 20.3/24
Left In: -411.262+/-257.201 χ²/NDF:13.7/22
Left: 33.443+/-179.833 χ²/NDF: 61.6/47
Right: -269.964+/-255.701 χ²/NDF: 35.2/44
In: -498.600+/-212.766 χ²/NDF:26.7/42
Out: 328.244+/-203.590 χ²/NDF:63.2/49
All: -66.965+/-147.097 χ²/NDF: 97.7/92




Right In: 1158.557+/-0.268 $\chi^2$/NDF: 912180.6/19

Left Out: 1105.549+/-0.178 $\chi^2$/NDF:121950.0/24

Right Out: 1144.482+/-0.244 $\chi^2$/NDF: 861202.0/24

Left In: 1100.350+/-0.182 $\chi^2$/NDF:80240.5/22

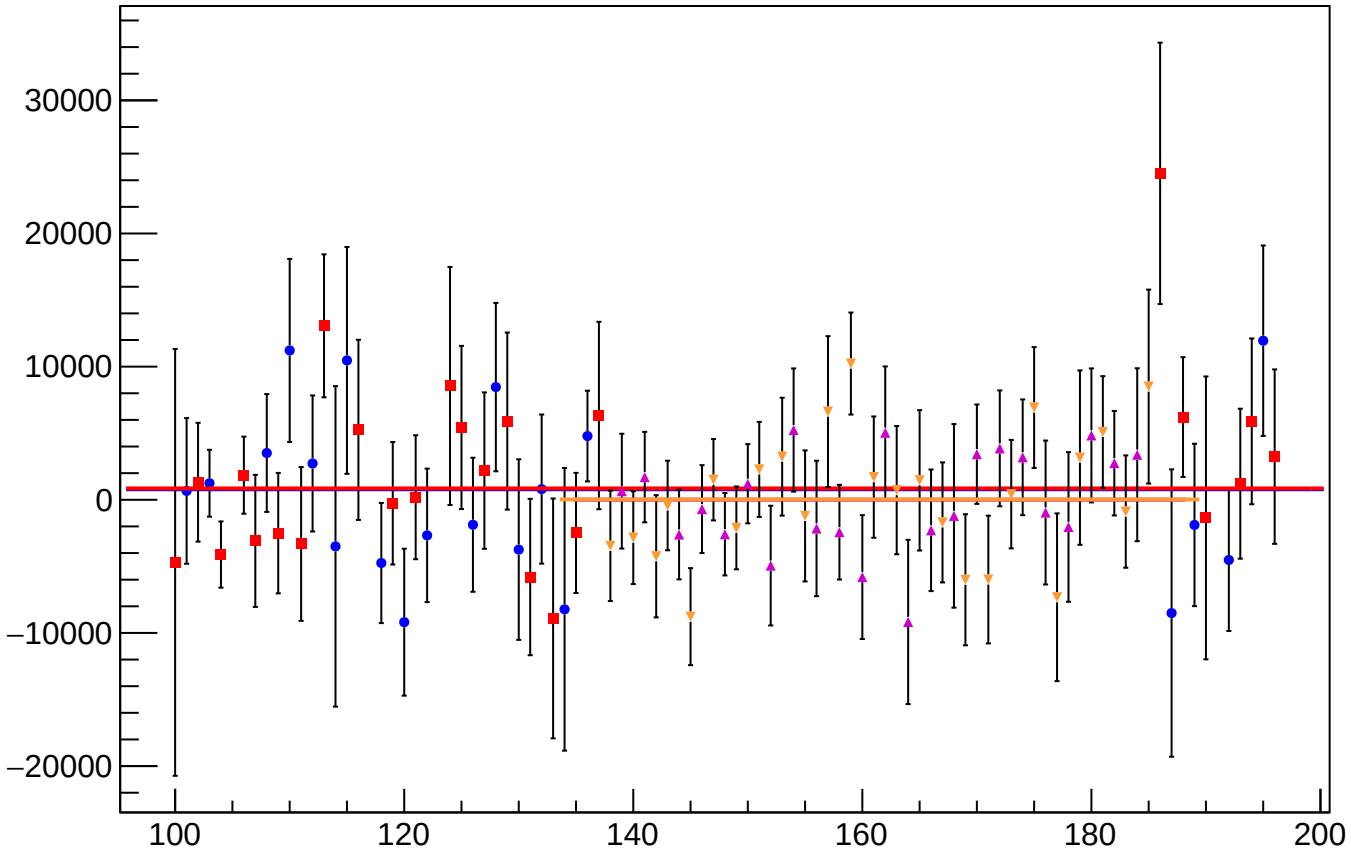
Left: 1103.007+/-0.127 $\chi^2$/NDF: 202608.2/47

Right: 1150.858+/-0.180 $\chi^2$/NDF: 1774893.9/44

In: 1118.725+/-0.150 $\chi^2$/NDF:1024757.3/42

Out: 1119.081+/-0.144 $\chi^2$/NDF:999806.3/49

All: 1118.911+/-0.104 $\chi^2$/NDF: 2024566.5/92




Right In: 790.723+/-1156.072 $\chi^2$/NDF: 18.2/19

Left Out: 23.368+/-850.404 $\chi^2$/NDF:28.5/24

Right Out: 850.874+/-1023.154 $\chi^2$/NDF: 25.2/24

Left In: 6.317+/-875.256 $\chi^2$/NDF:14.0/22

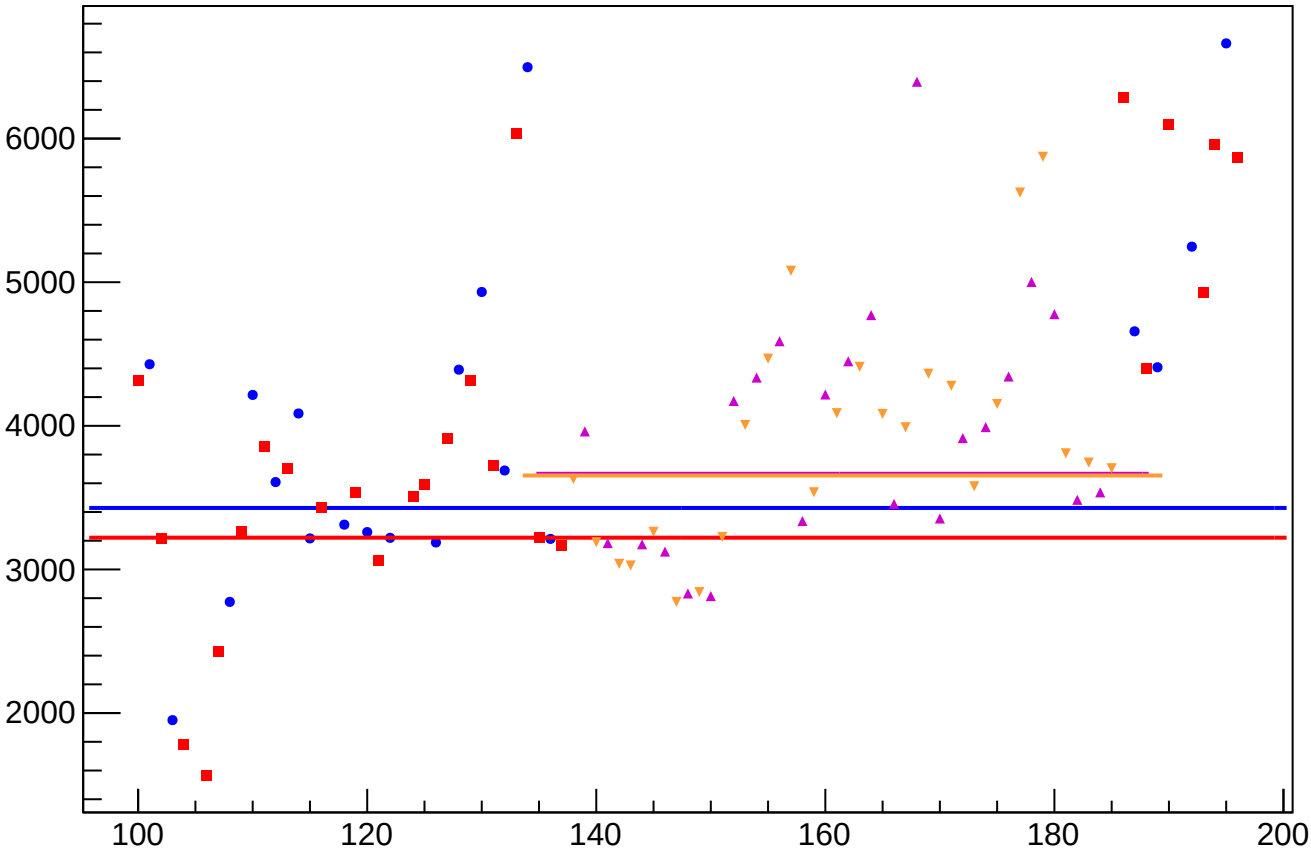
Left: 15.088+/-609.923 $\chi^2$/NDF: 42.5/47

Right: 824.453+/-766.182 $\chi^2$/NDF: 43.4/44

In: 292.115+/-697.821 $\chi^2$/NDF:32.5/42

Out: 361.465+/-653.997 $\chi^2$/NDF:54.1/49

All: 329.036+/-477.187 $\chi^2$/NDF: 86.6/92




Right In: 3428.261+/-0.817 $\chi^2$/NDF: 1892974.8/19

Left Out: 3654.198+/-0.601 $\chi^2$/NDF:1311761.6/24

Right Out: 3221.129+/-0.723 $\chi^2$/NDF: 3111994.2/24

Left In: 3666.118+/-0.619 $\chi^2$/NDF:1343709.3/22

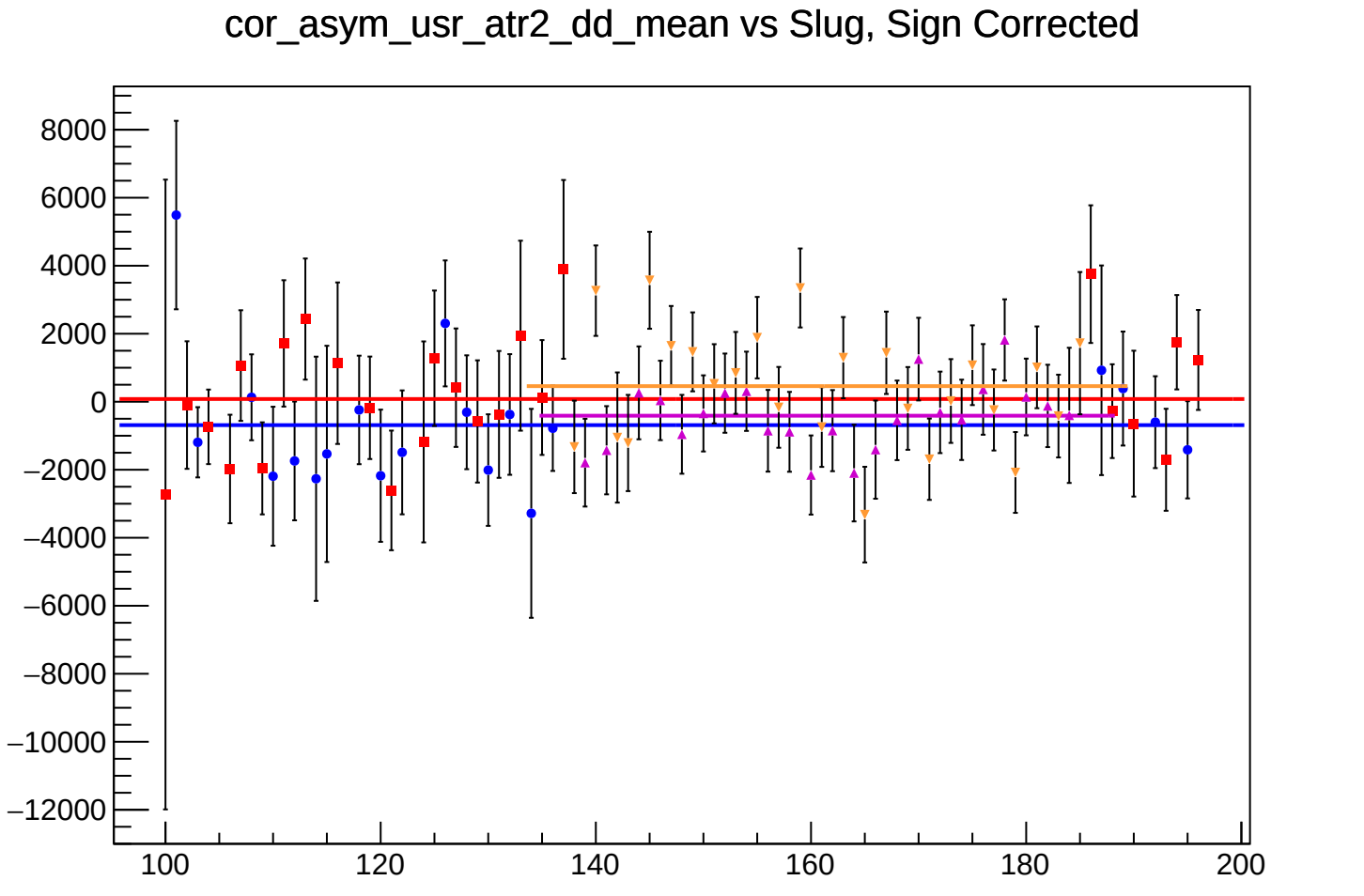
Left: 3659.986+/-0.431 $\chi^2$/NDF: 2655661.7/47

Right: 3312.108+/-0.542 $\chi^2$/NDF: 5040971.8/44

In: 3579.455+/-0.493 $\chi^2$/NDF:3290499.9/42

Out: 3477.258+/-0.462 $\chi^2$/NDF:4635671.1/49

All: 3525.047+/-0.337 $\chi^2$/NDF: 7949008.2/92




Right In: -687.911+/-378.686 $\chi^2$/NDF: 12.7/19

Left Out: 458.844+/-251.538 $\chi^2$/NDF:42.1/24

Right Out: 80.102+/-346.667 $\chi^2$/NDF: 20.3/24

Left In: -411.165+/-257.201 $\chi^2$/NDF:13.7/22

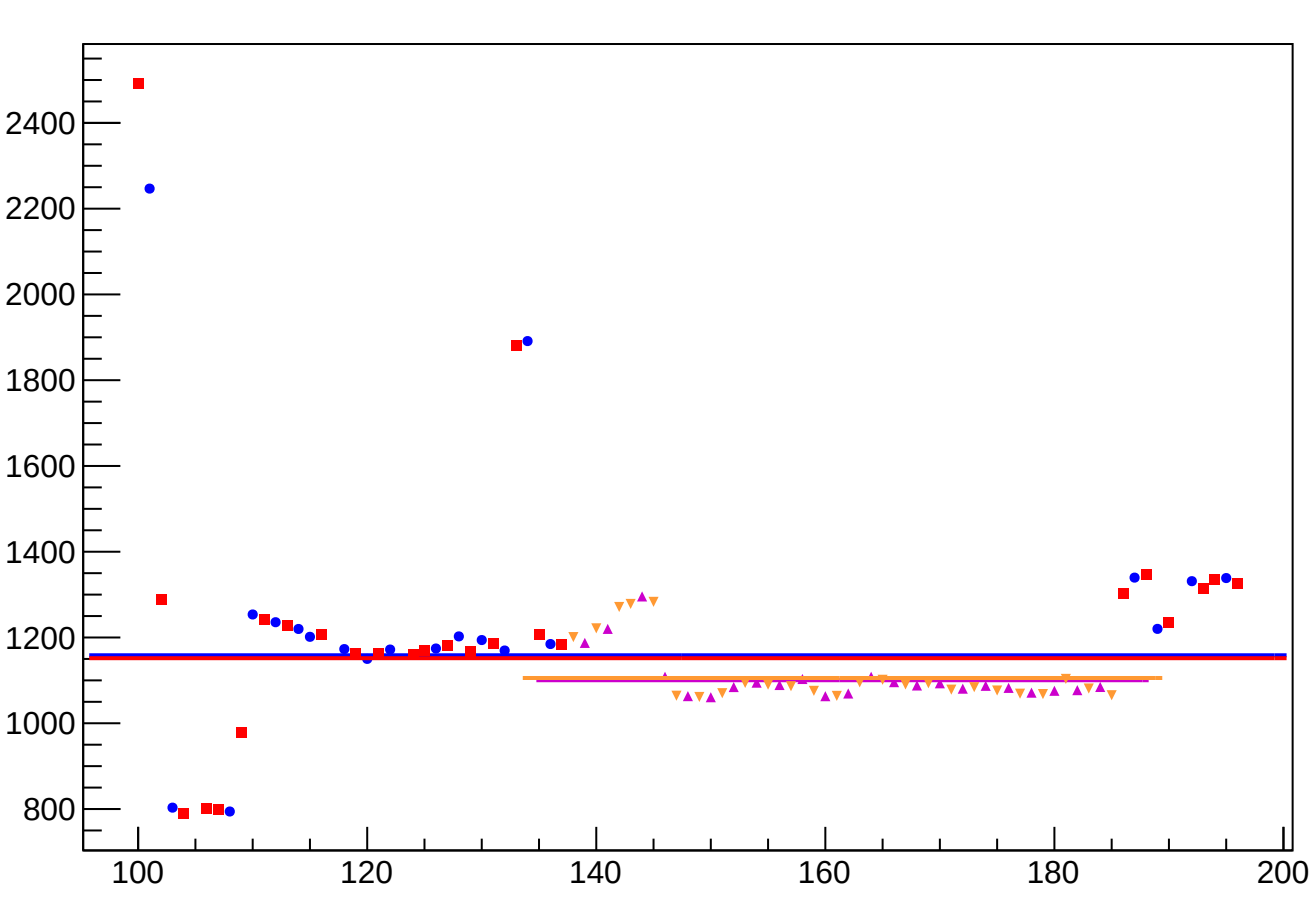
Left: 33.523+/-179.833 $\chi^2$/NDF: 61.6/47

Right: -270.068+/-255.702 $\chi^2$/NDF: 35.2/44

In: -498.528+/-212.766 $\chi^2$/NDF:26.7/42

Out: 328.217+/-203.591 $\chi^2$/NDF:63.2/49

All: -66.946+/-147.097 $\chi^2$/NDF: 97.7/92




Right In: 1158.558+/-0.268 $\chi^2$/NDF: 912176.6/19

Left Out: 1105.549+/-0.178 $\chi^2$/NDF:121950.0/24

Right Out: 1151.716+/-0.245 $\chi^2$/NDF: 790631.1/24

Left In: 1100.350+/-0.182 $\chi^2$/NDF:80240.5/22

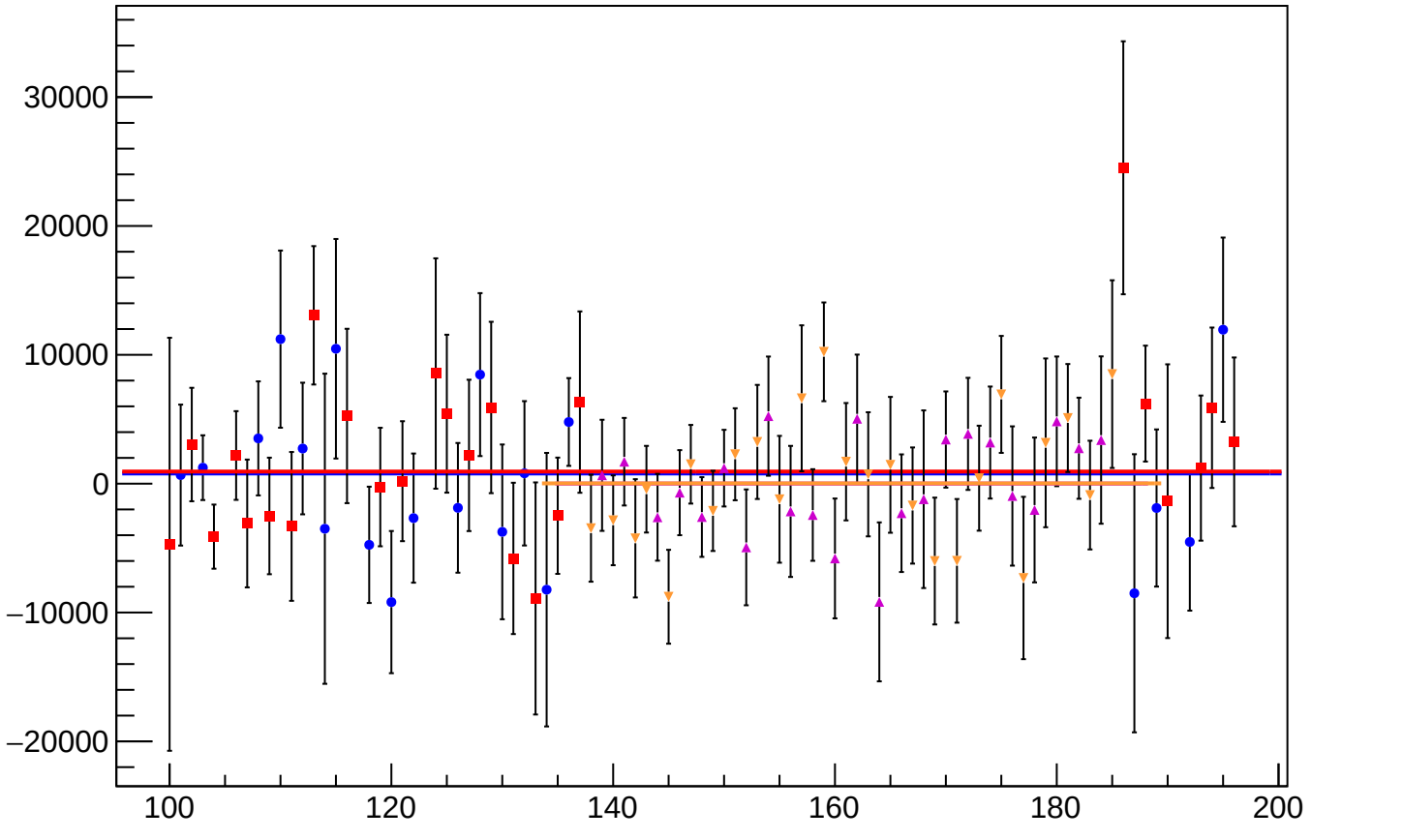
Left: 1103.007+/-0.127 $\chi^2$/NDF: 202608.2/47

Right: 1154.831+/-0.181 $\chi^2$/NDF: 1703163.3/44

In: 1118.725+/-0.150 $\chi^2$/NDF:1024753.9/42

Out: 1121.501+/-0.144 $\chi^2$/NDF:935859.8/49

All: 1120.175+/-0.104 $\chi^2$/NDF: 1960791.4/92




Right In: 790.252+/-1156.113 $\chi^2$/NDF: 18.2/19

Left Out: 23.365+/-850.403 $\chi^2$/NDF:28.5/24

Right Out: 940.678+/-1041.655 $\chi^2$/NDF: 25.5/24

Left In: 6.368+/-875.255 $\chi^2$/NDF:14.0/22

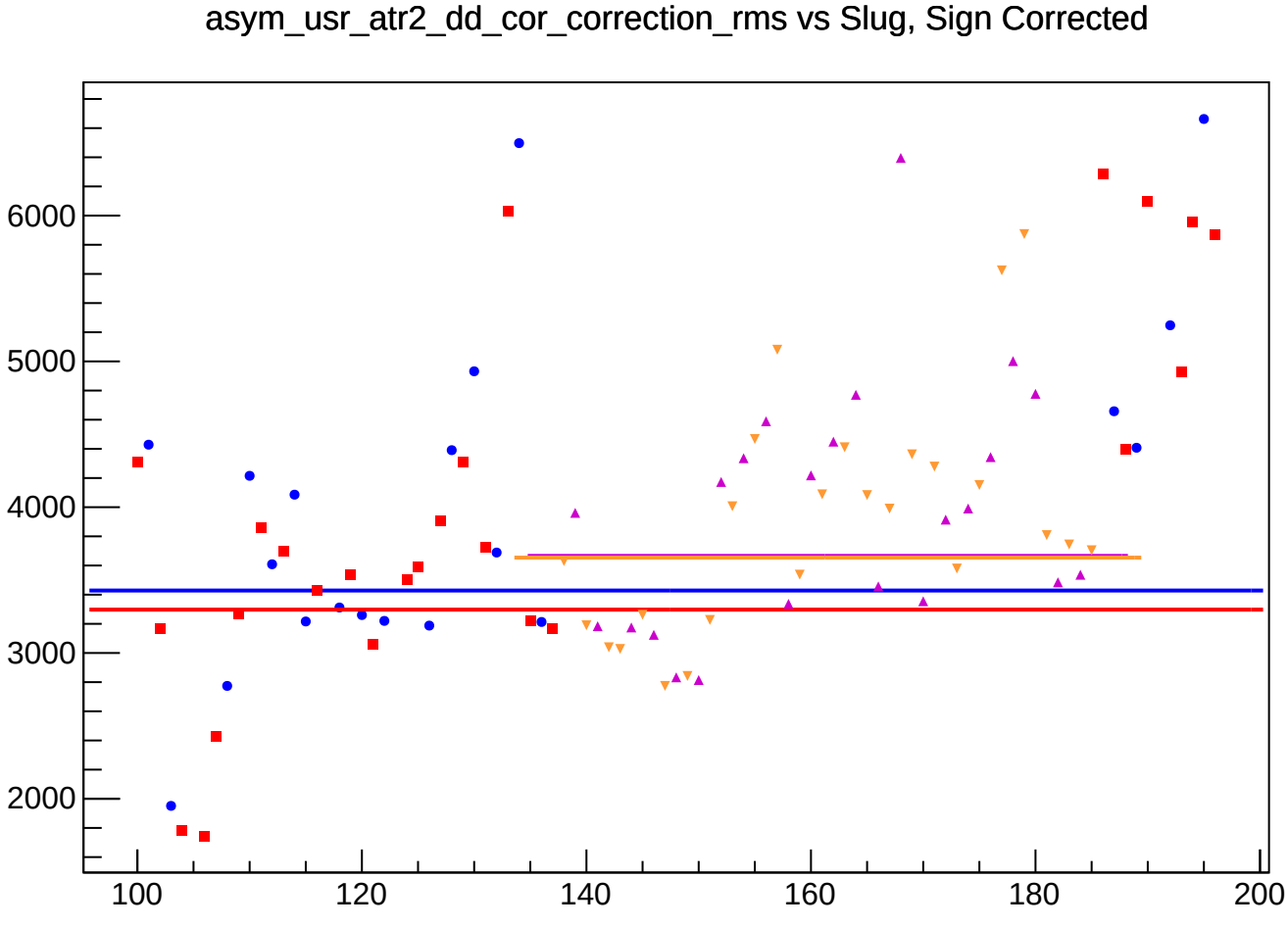
Left: 15.111+/-609.923 $\chi^2$/NDF: 42.5/47

Right: 873.278+/-773.872 $\chi^2$/NDF: 43.7/44

In: 291.963+/-697.830 $\chi^2$/NDF:32.5/42

Out: 390.236+/-658.752 $\chi^2$/NDF:54.4/49

All: 343.928+/-479.027 $\chi^2$/NDF: 86.9/92




Right In: 3428.440+/-0.817 $\chi^2$/NDF: 1892404.1/19

Left Out: 3654.195+/-0.601 $\chi^2$/NDF:1311769.4/24

Right Out: 3297.318+/-0.737 $\chi^2$/NDF: 2815962.5/24

Left In: 3666.114+/-0.619 $\chi^2$/NDF:1343711.6/22

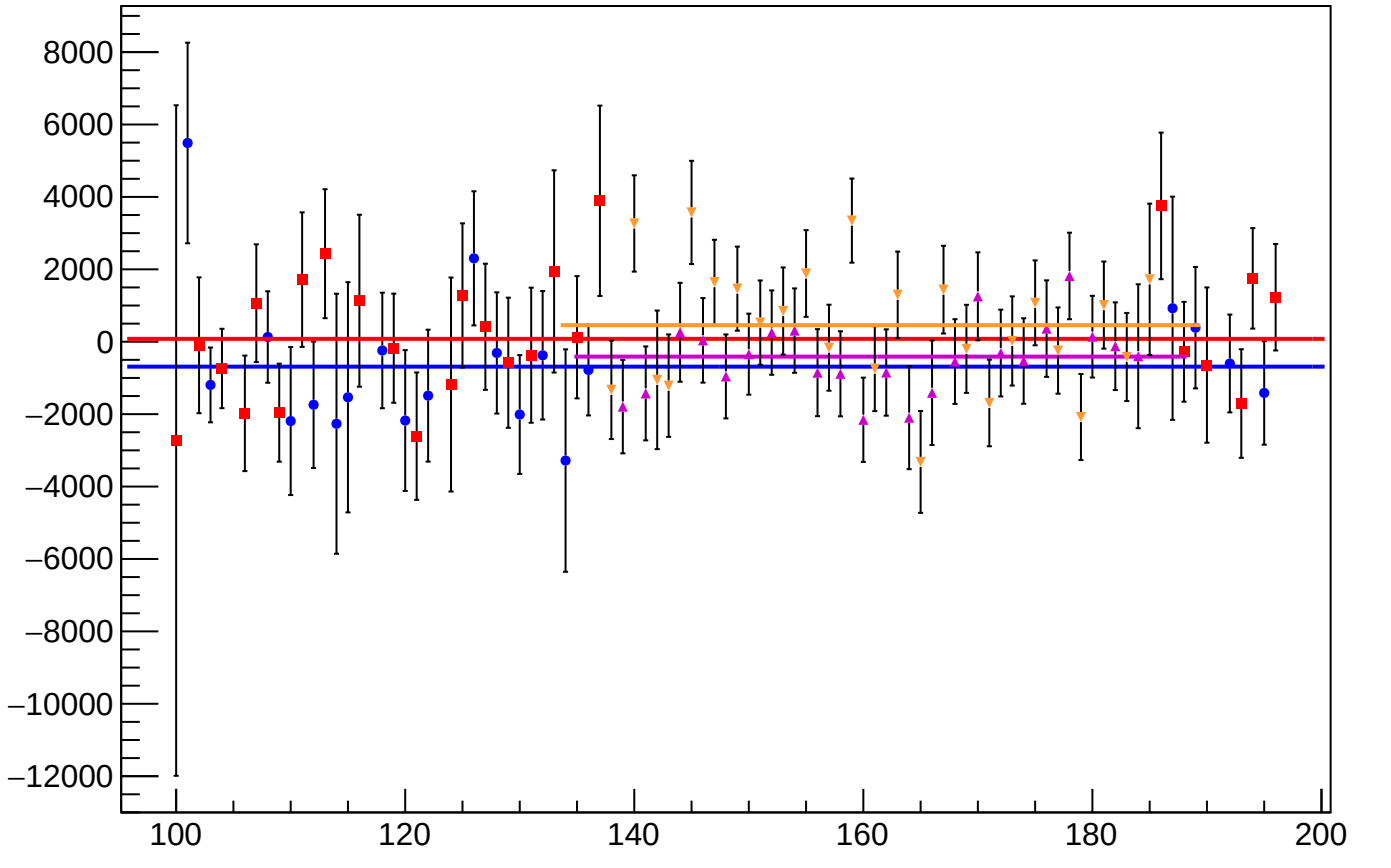
Left: 3659.983+/-0.431 $\chi^2$/NDF: 2655671.8/47

Right: 3356.069+/-0.547 $\chi^2$/NDF: 4722566.2/44

In: 3579.522+/-0.493 $\chi^2$/NDF:3289846.3/42

Out: 3511.465+/-0.466 $\chi^2$/NDF:4268600.4/49

All: 3543.535+/-0.339 $\chi^2$/NDF: 7568505.6/92




Right In: -687.911+/-378.686 $\chi^2$/NDF: 12.7/19

Left Out: 458.844+/-251.538 $\chi^2$/NDF:42.1/24

Right Out: 80.102+/-346.667 $\chi^2$/NDF: 20.3/24

Left In: -411.165+/-257.201 $\chi^2$/NDF:13.7/22

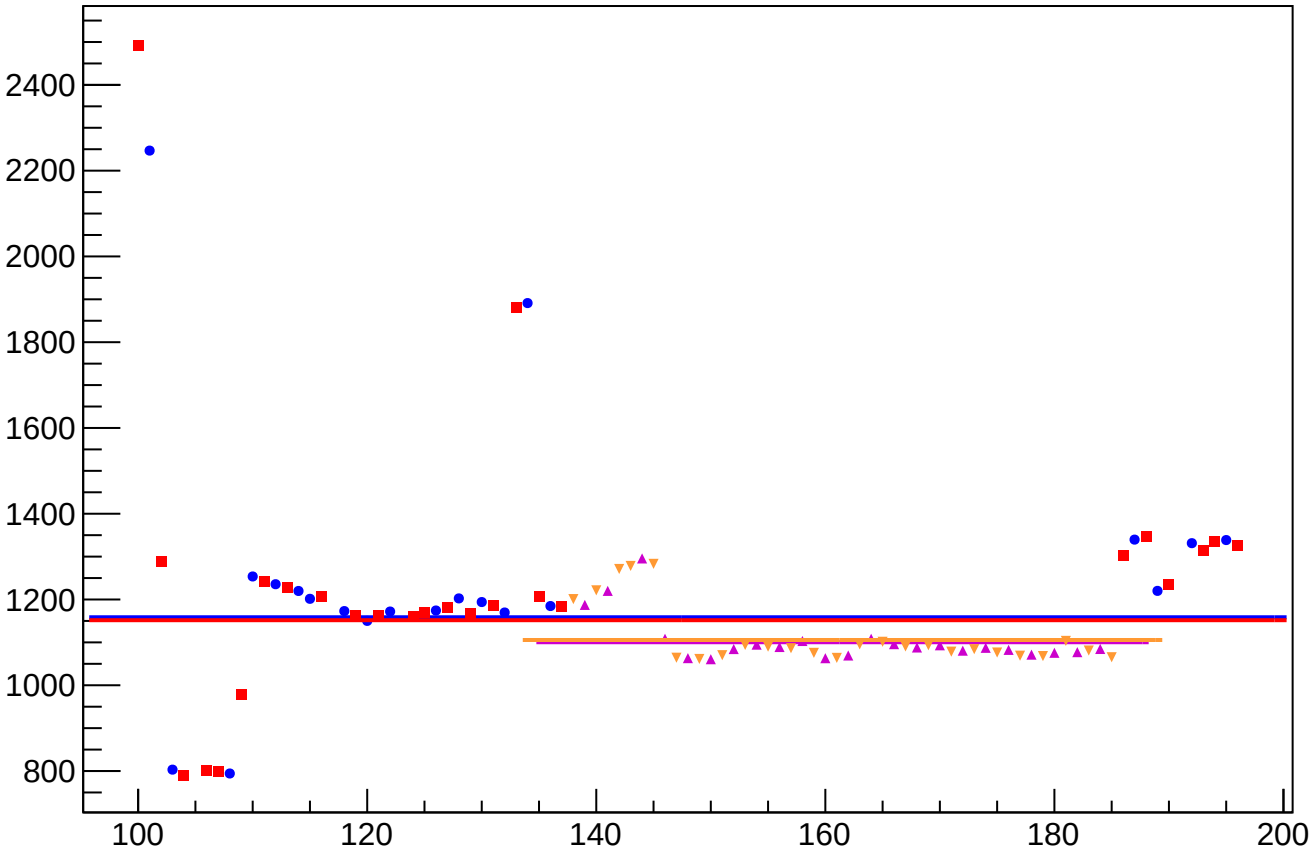
Left: 33.523+/-179.833 $\chi^2$/NDF: 61.6/47

Right: -270.068+/-255.702 $\chi^2$/NDF: 35.2/44

In: -498.528+/-212.766 $\chi^2$/NDF:26.7/42

Out: 328.217+/-203.591 $\chi^2$/NDF:63.2/49

All: -66.946+/-147.097 $\chi^2$/NDF: 97.7/92




Right In: 1158.558+/-0.268 $\chi^2$/NDF: 912176.6/19

Left Out: 1105.549+/-0.178 $\chi^2$/NDF:121950.0/24

Right Out: 1151.716+/-0.245 $\chi^2$/NDF: 790631.1/24

Left In: 1100.350+/-0.182 $\chi^2$/NDF:80240.5/22

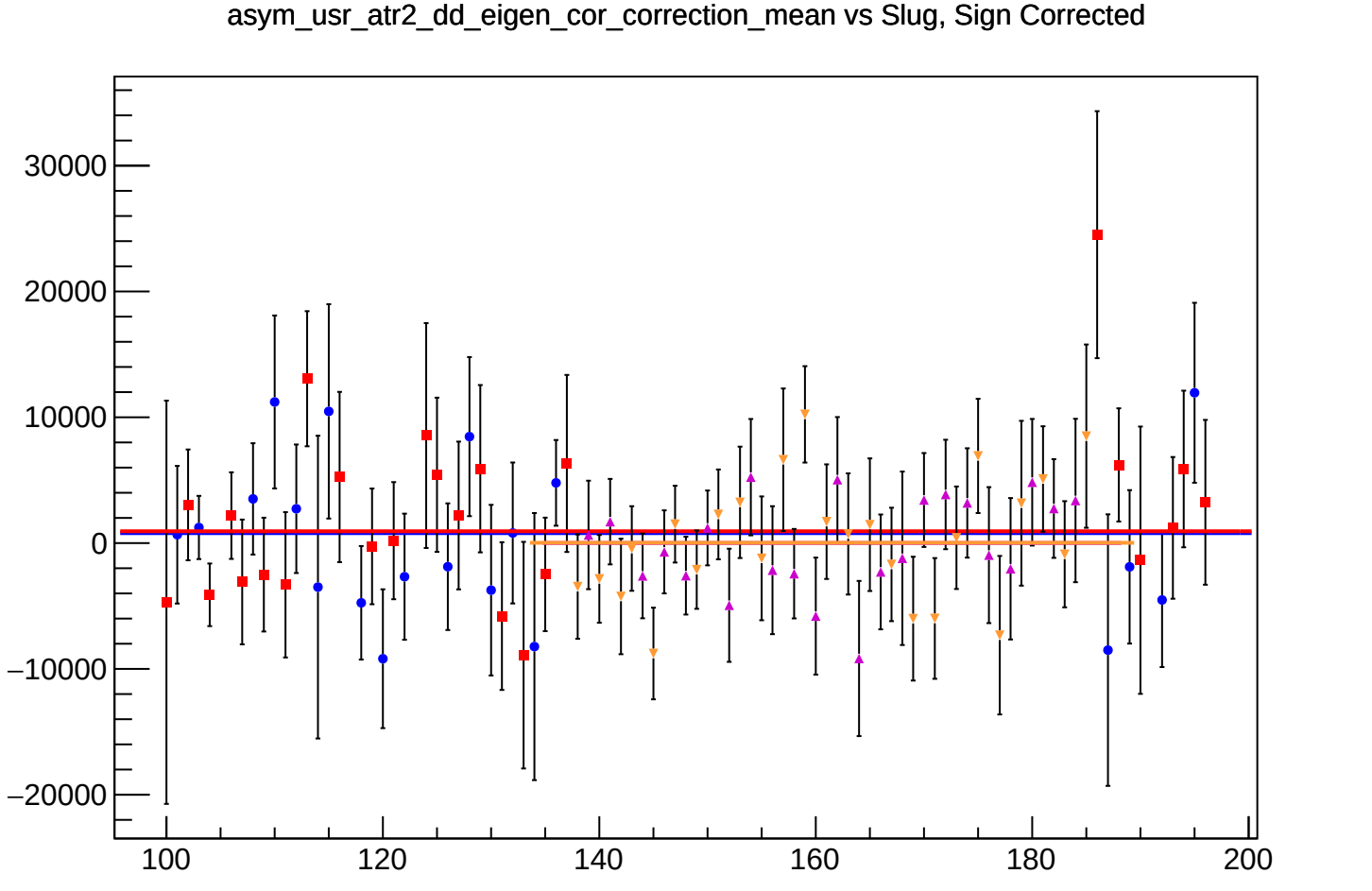
Left: 1103.007+/-0.127 $\chi^2$/NDF: 202608.2/47

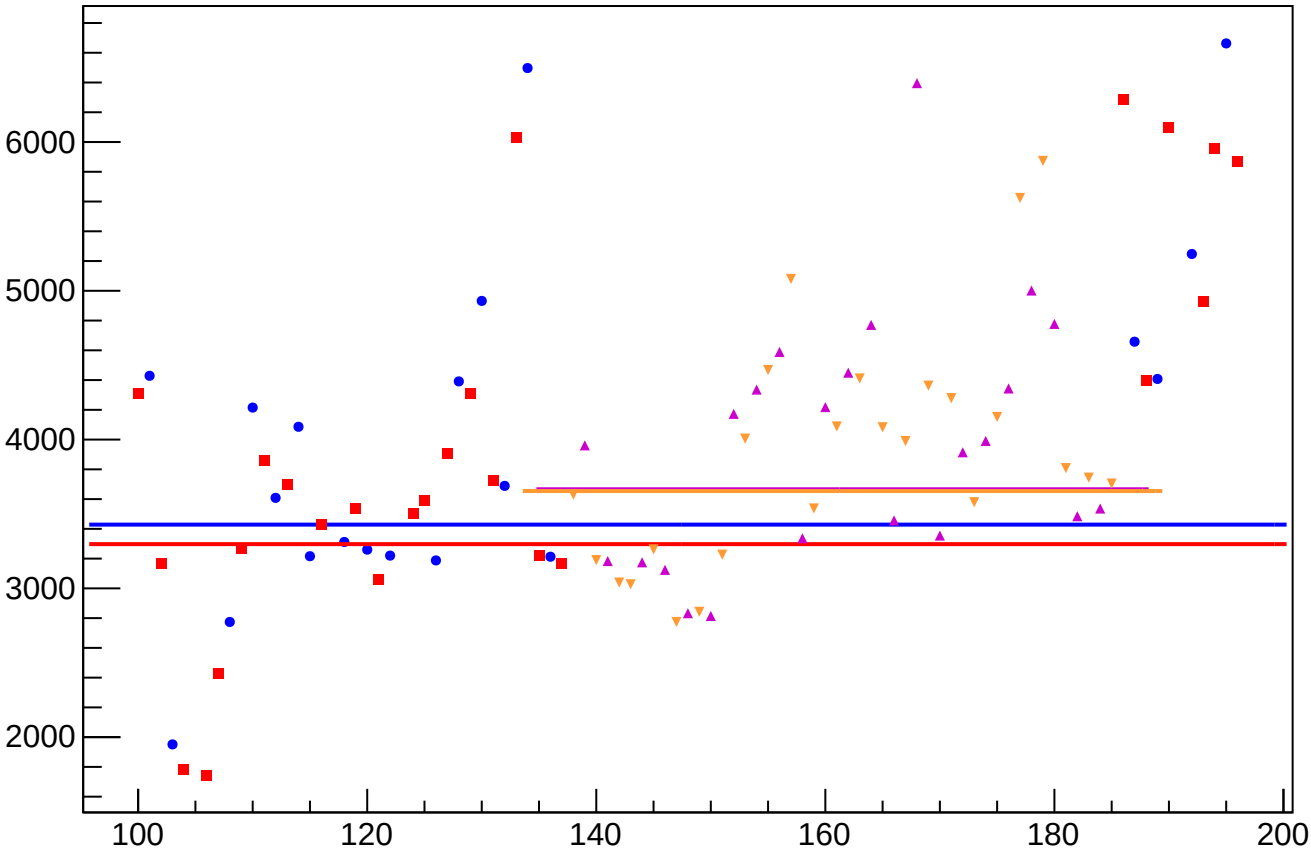
Right: 1154.831+/-0.181 $\chi^2$/NDF: 1703163.3/44

In: 1118.725+/-0.150 $\chi^2$/NDF:1024753.9/42

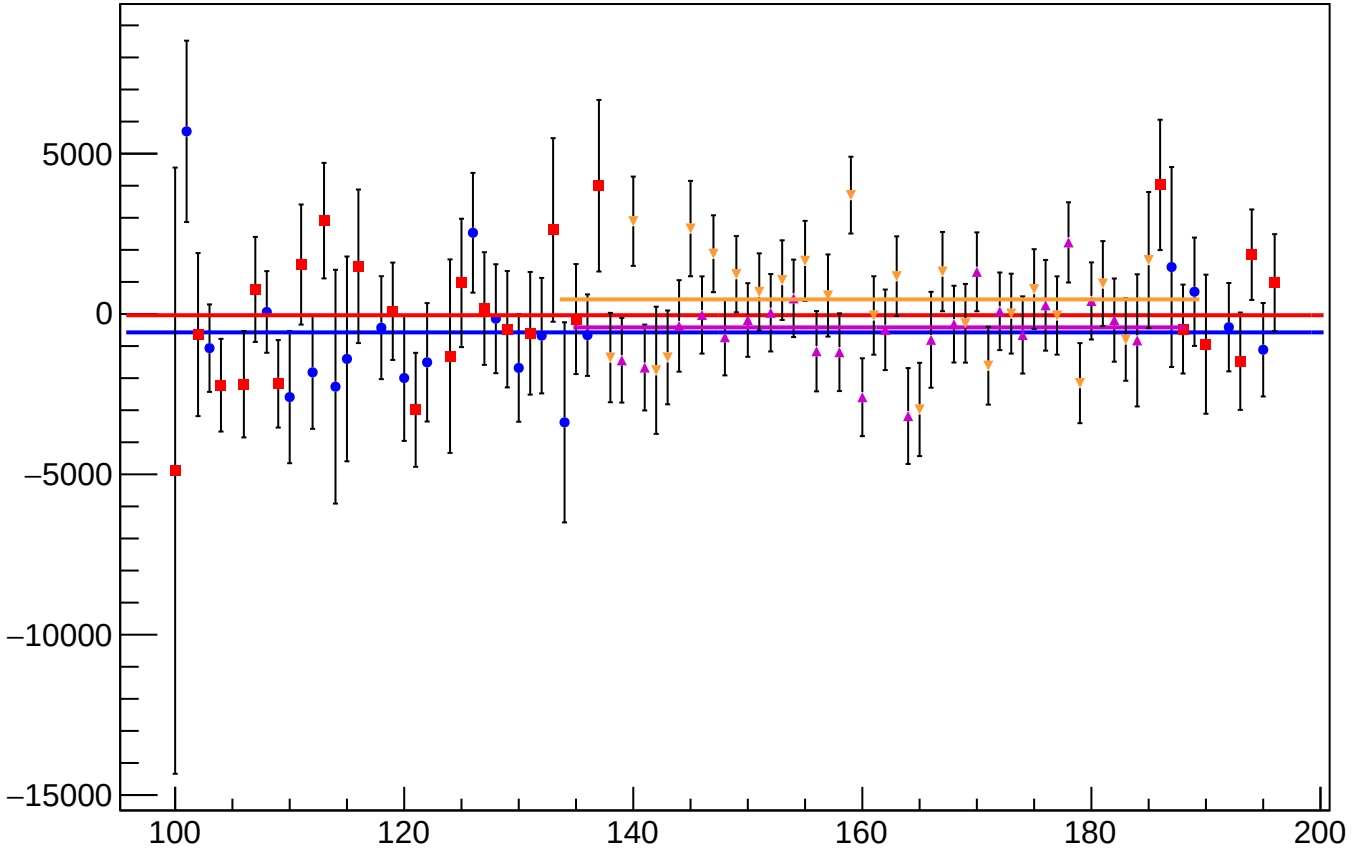
Out: 1121.501+/-0.144 $\chi^2$/NDF:935859.8/49

All: 1120.175+/-0.104 $\chi^2$/NDF: 1960791.4/92


asym_usr_atr2_dd_eigen_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 790.252+/-1156.113 χ²/NDF: 18.2/19
Left Out: 23.365+/-850.403 χ²/NDF:28.5/24
Right Out: 940.678+/-1041.655 χ²/NDF: 25.5/24
Left In: 6.368+/-875.255 χ²/NDF:14.0/22
Left: 15.111+/-609.923 χ²/NDF: 42.5/47
Right: 873.278+/-773.872 χ²/NDF: 43.7/44
In: 291.963+/-697.830 χ²/NDF:32.5/42
Out: 390.236+/-658.752 χ²/NDF:54.4/49
All: 343.928+/-479.027 χ²/NDF: 86.9/92


asym_usr_atr2_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
100
120
140
160
180
200
Right In: 3428.440+/-0.817 χ²/NDF: 1892404.1/19
Left Out: 3654.195+/-0.601 χ²/NDF:1311769.4/24
Right Out: 3297.318+/-0.737 χ²/NDF: 2815962.5/24
Left In: 3666.114+/-0.619 χ²/NDF:1343711.6/22
Left: 3659.983+/-0.431 χ²/NDF: 2655671.8/47
Right: 3356.069+/-0.547 χ²/NDF: 4722566.2/44
In: 3579.522+/-0.493 χ²/NDF:3289846.3/42
Out: 3511.465+/-0.466 χ²/NDF:4268600.4/49
All: 3543.535+/-0.339 χ²/NDF: 7568505.6/92

# dit_asym_usr_atr2_dd_mean vs Slug, Sign Corrected




Right In: -573.337+/-394.595 $\chi^2$/NDF: 13.1/19

Left Out: 455.711+/-261.005 $\chi^2$/NDF:36.1/24

Right Out: -37.846+/-361.581 $\chi^2$/NDF: 24.7/24

Left In: -417.202+/-266.582 $\chi^2$/NDF:17.3/22

Left: 28.481+/-186.499 $\chi^2$/NDF: 59.0/47

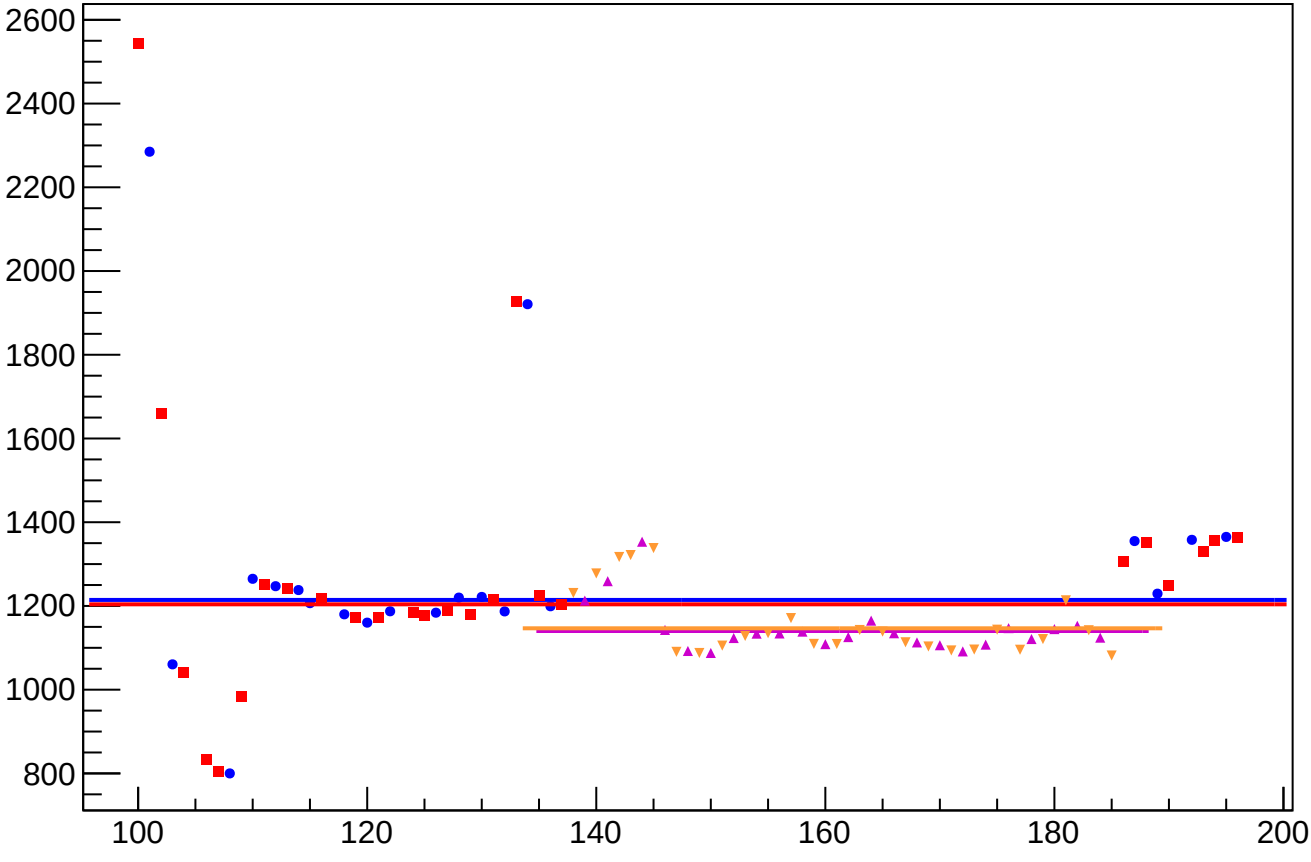
Right: -282.256+/-266.585 $\chi^2$/NDF: 38.7/44

In: -466.132+/-220.897 $\chi^2$/NDF:30.5/42

Out: 286.636+/-211.629 $\chi^2$/NDF:62.0/49

All: -73.627+/-152.816 $\chi^2$/NDF: 98.6/92

# dit_asym_usr_atr2_dd_rms vs Slug, Sign Corrected




Right In: 1214.386+/-0.279 $\chi^2$/NDF: 680261.1/19

Left Out: 1146.614+/-0.185 $\chi^2$/NDF:141015.8/24

Right Out: 1203.888+/-0.256 $\chi^2$/NDF: 623608.5/24

Left In: 1140.168+/-0.189 $\chi^2$/NDF:84737.4/22

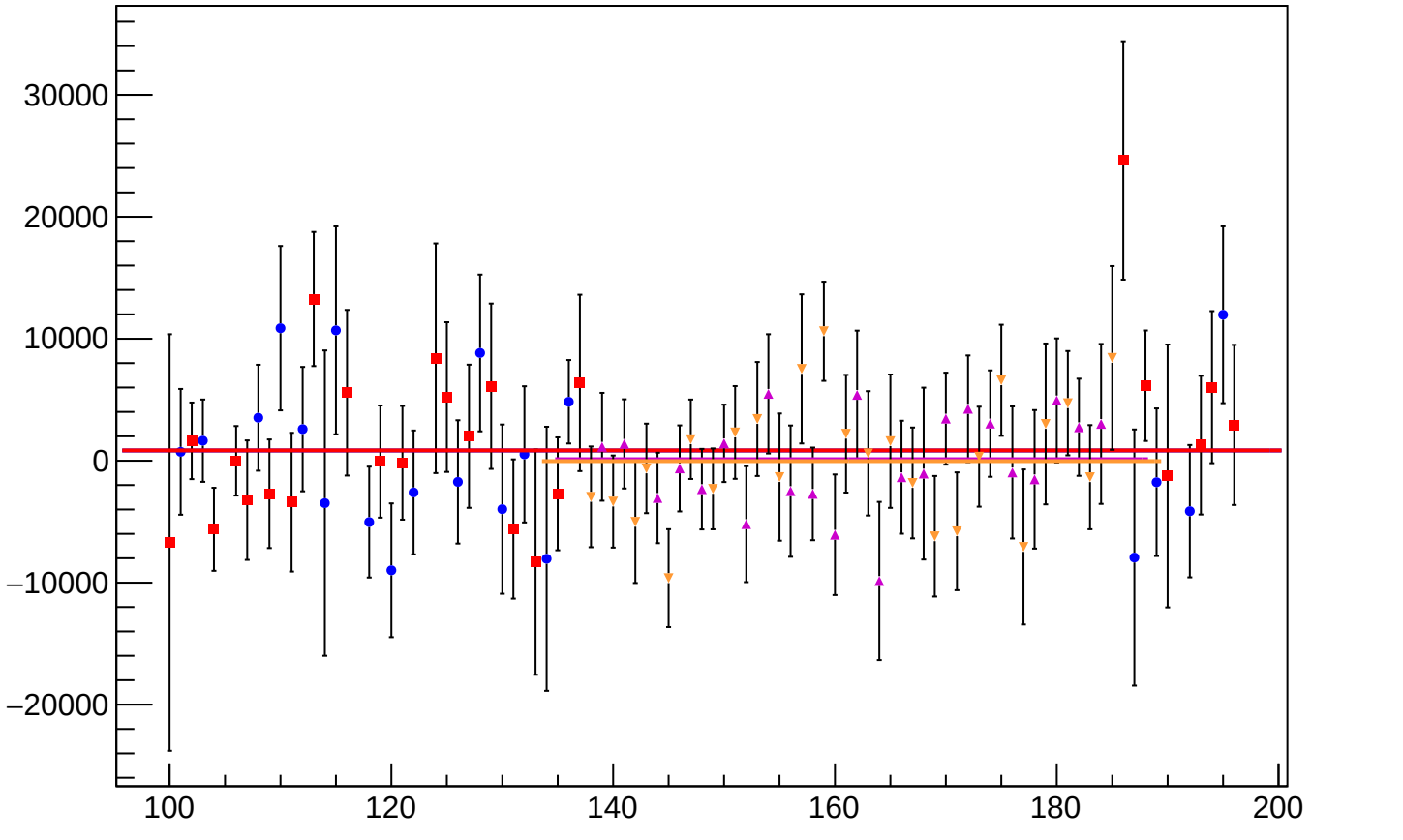
Left: 1143.459+/-0.132 $\chi^2$/NDF: 226350.2/47

Right: 1208.678+/-0.188 $\chi^2$/NDF: 1304639.3/44

In: 1163.427+/-0.156 $\chi^2$/NDF:813578.5/42

Out: 1166.242+/-0.150 $\chi^2$/NDF:797628.8/49

All: 1164.895+/-0.108 $\chi^2$/NDF: 1611376.7/92




Right In: 837.478+/-1213.672 $\chi^2$/NDF: 18.0/19

Left Out: -33.549+/-891.370 $\chi^2$/NDF:27.8/24

Right Out: 844.801+/-1037.082 $\chi^2$/NDF: 24.9/24

Left In: 121.051+/-915.714 $\chi^2$/NDF:13.8/22

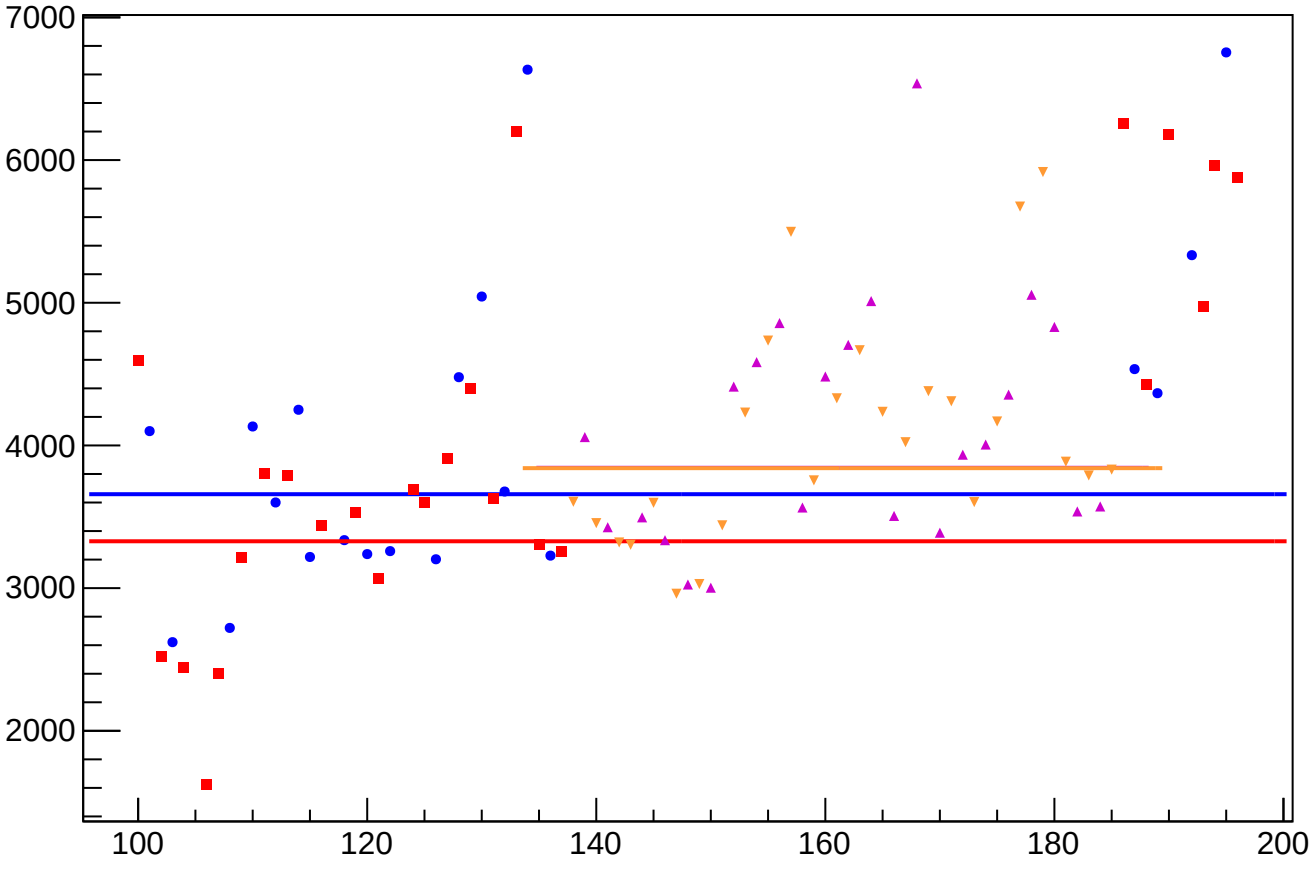
Left: 41.669+/-638.727 $\chi^2$/NDF: 41.5/47

Right: 841.711+/-788.440 $\chi^2$/NDF: 42.8/44

In: 380.943+/-730.990 $\chi^2$/NDF:32.0/42

Out: 339.636+/-675.991 $\chi^2$/NDF:53.0/49

All: 358.677+/-496.304 $\chi^2$/NDF: 85.0/92




Right In: 3658.330+/-0.858 $\chi^2$/NDF: 1258494.0/19

Left Out: 3840.830+/-0.630 $\chi^2$/NDF:1118666.6/24

Right Out: 3328.412+/-0.733 $\chi^2$/NDF: 2643814.7/24

Left In: 3843.328+/-0.648 $\chi^2$/NDF:1196057.8/22

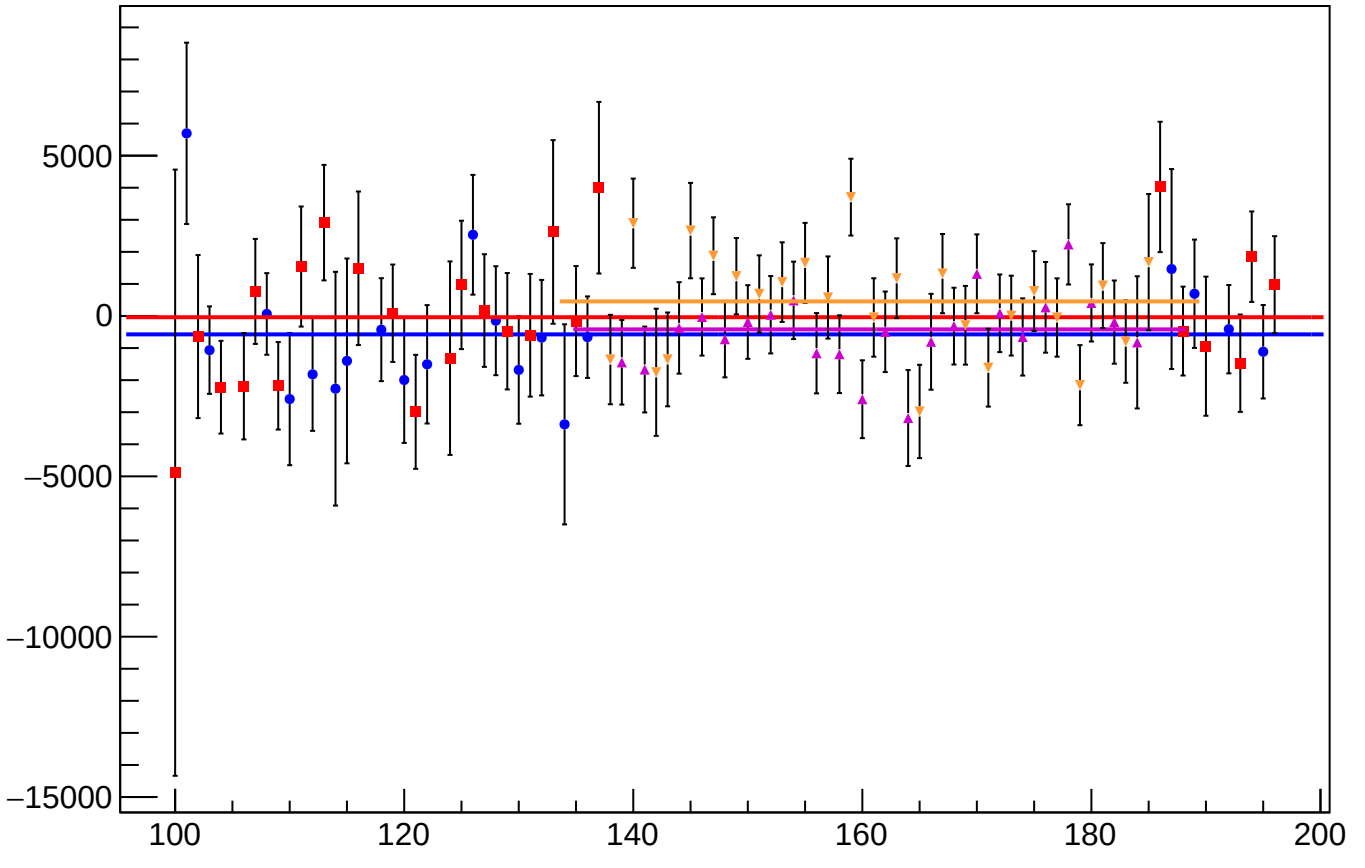
Left: 3842.046+/-0.452 $\chi^2$/NDF: 2314732.0/47

Right: 3467.644+/-0.558 $\chi^2$/NDF: 3987727.1/44

In: 3776.218+/-0.517 $\chi^2$/NDF:2484163.6/42

Out: 3623.119+/-0.478 $\chi^2$/NDF:4043295.7/49

All: 3693.693+/-0.351 $\chi^2$/NDF: 6574748.9/92




Right In: -573.340+/-394.595 $\chi^2$/NDF: 13.1/19

Left Out: 455.716+/-261.006 $\chi^2$/NDF:36.1/24

Right Out: -37.849+/-361.581 $\chi^2$/NDF: 24.7/24

Left In: -417.201+/-266.583 $\chi^2$/NDF:17.3/22

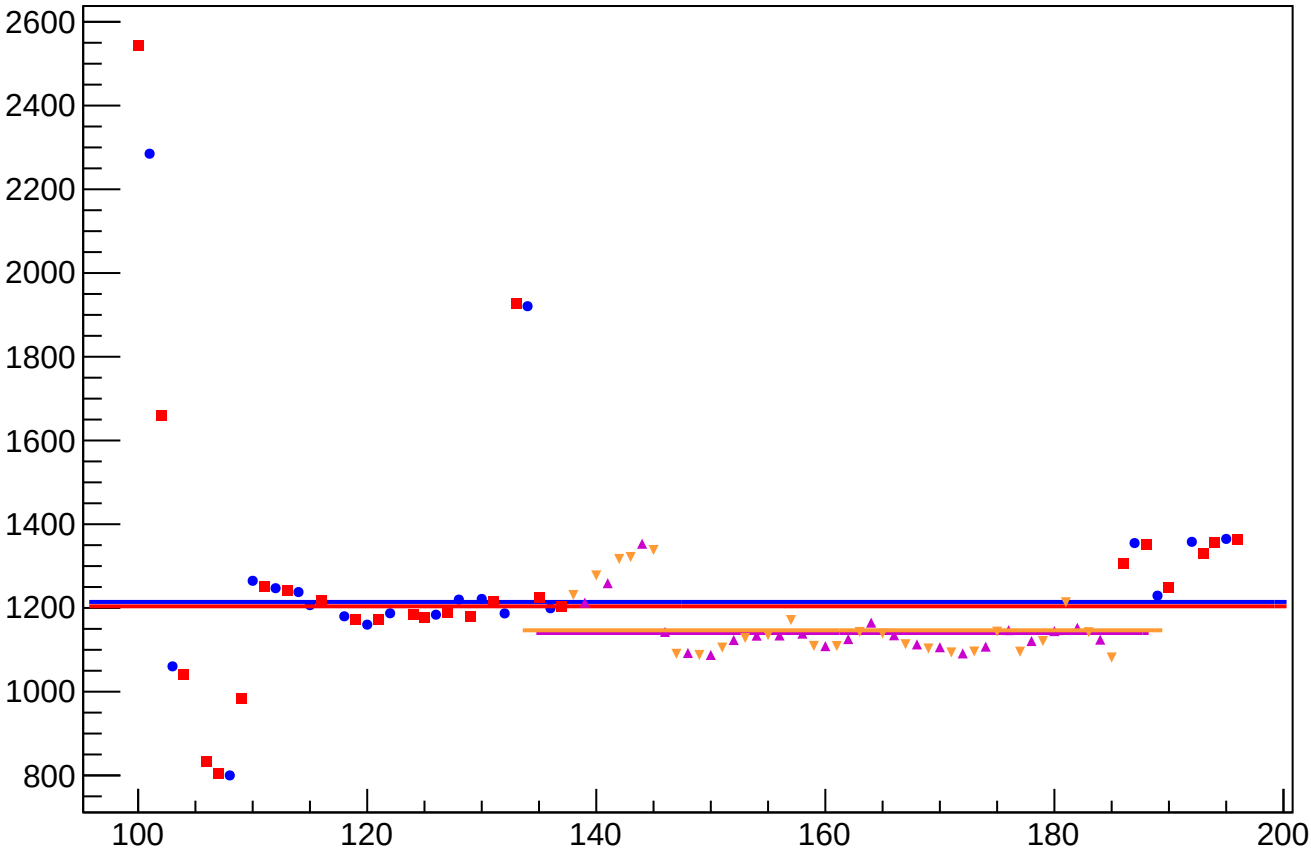
Left: 28.484+/-186.499 $\chi^2$/NDF: 59.0/47

Right: -282.259+/-266.585 $\chi^2$/NDF: 38.7/44

In: -466.132+/-220.897 $\chi^2$/NDF:30.5/42

Out: 286.638+/-211.630 $\chi^2$/NDF:62.1/49

All: -73.626+/-152.816 $\chi^2$/NDF: 98.6/92




Right In: 1214.386+/-0.279 $\chi^2$/NDF: 680261.4/19

Left Out: 1146.614+/-0.185 $\chi^2$/NDF:141015.8/24

Right Out: 1203.888+/-0.256 $\chi^2$/NDF: 623607.7/24

Left In: 1140.169+/-0.189 $\chi^2$/NDF:84737.2/22

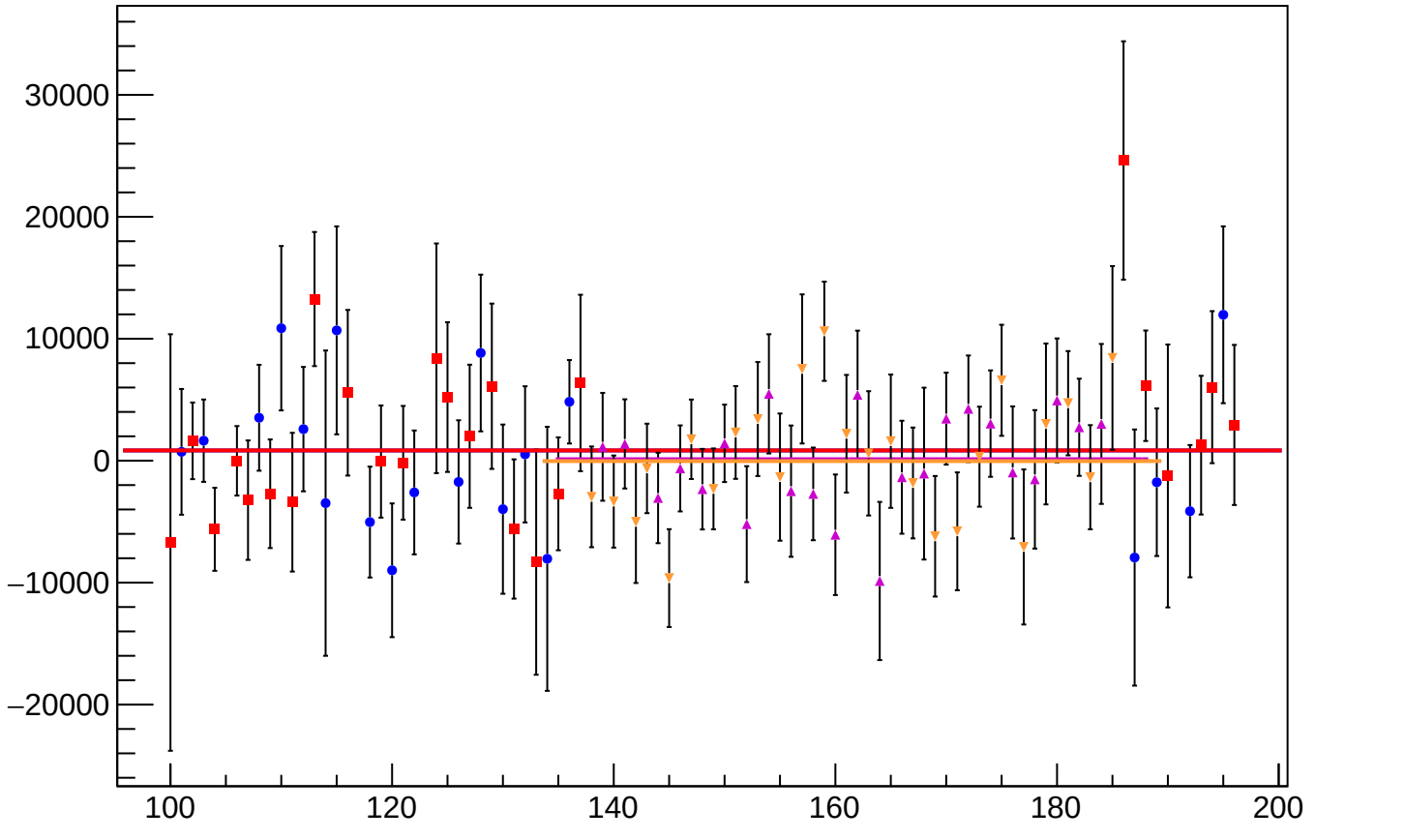
Left: 1143.460+/-0.132 $\chi^2$/NDF: 226349.9/47

Right: 1208.678+/-0.188 $\chi^2$/NDF: 1304638.7/44

In: 1163.427+/-0.156 $\chi^2$/NDF:813577.3/42

Out: 1166.242+/-0.150 $\chi^2$/NDF:797627.4/49

All: 1164.895+/-0.108 $\chi^2$/NDF: 1611374.2/92




Right In: 837.463+/-1213.671 $\chi^2$/NDF: 18.0/19

Left Out: -33.548+/-891.372 $\chi^2$/NDF:27.8/24

Right Out: 844.793+/-1037.080 $\chi^2$/NDF: 24.9/24

Left In: 121.054+/-915.716 $\chi^2$/NDF:13.8/22

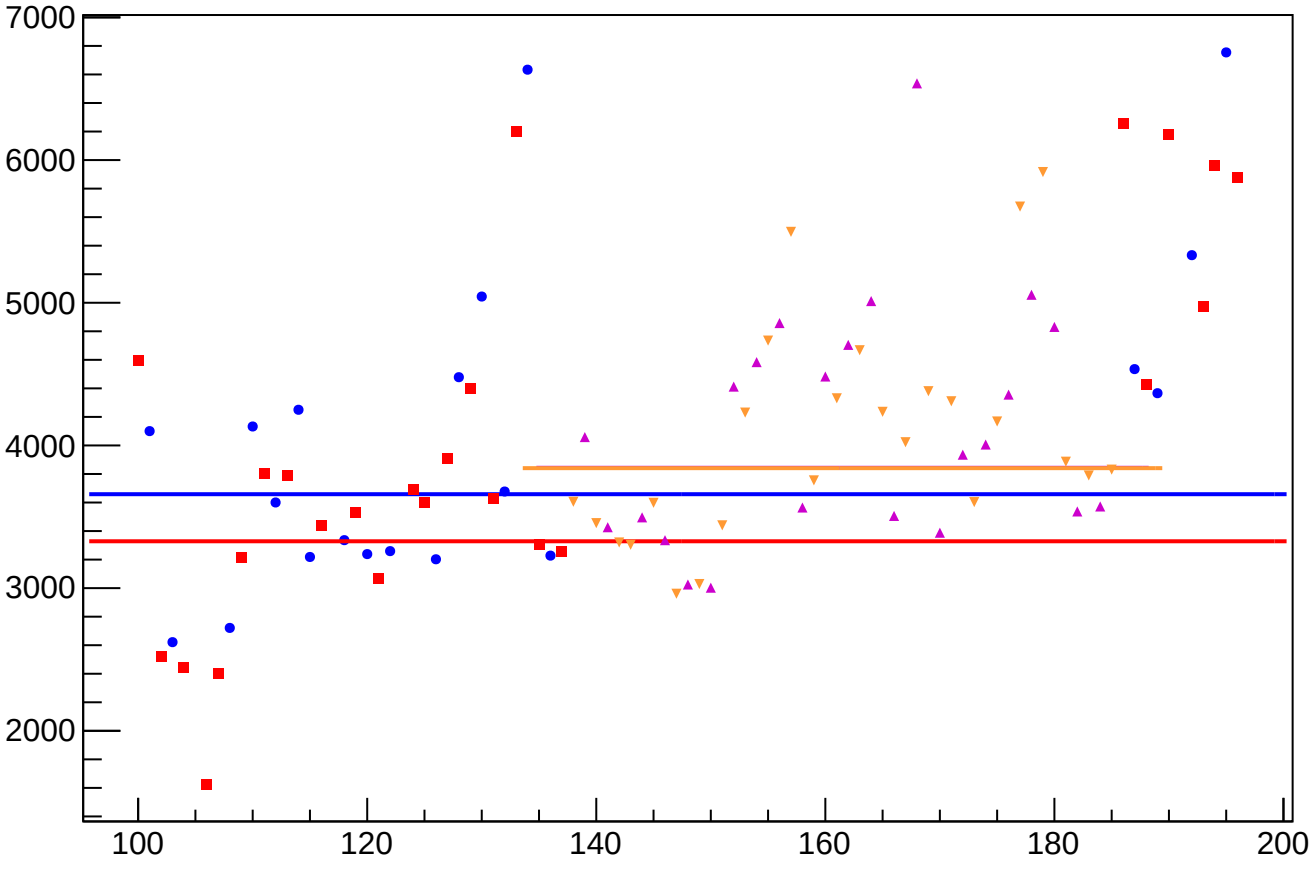
Left: 41.671+/-638.728 $\chi^2$/NDF: 41.5/47

Right: 841.699+/-788.439 $\chi^2$/NDF: 42.8/44

In: 380.940+/-730.990 $\chi^2$/NDF:32.0/42

Out: 339.634+/-675.992 $\chi^2$/NDF:53.0/49

All: 358.675+/-496.304 $\chi^2$/NDF: 85.0/92




Right In: 3658.327+/-0.858 $\chi^2$/NDF: 1258495.1/19

Left Out: 3840.836+/-0.630 $\chi^2$/NDF:1118668.2/24

Right Out: 3328.407+/-0.733 $\chi^2$/NDF: 2643821.6/24

Left In: 3843.333+/-0.648 $\chi^2$/NDF:1196061.6/22

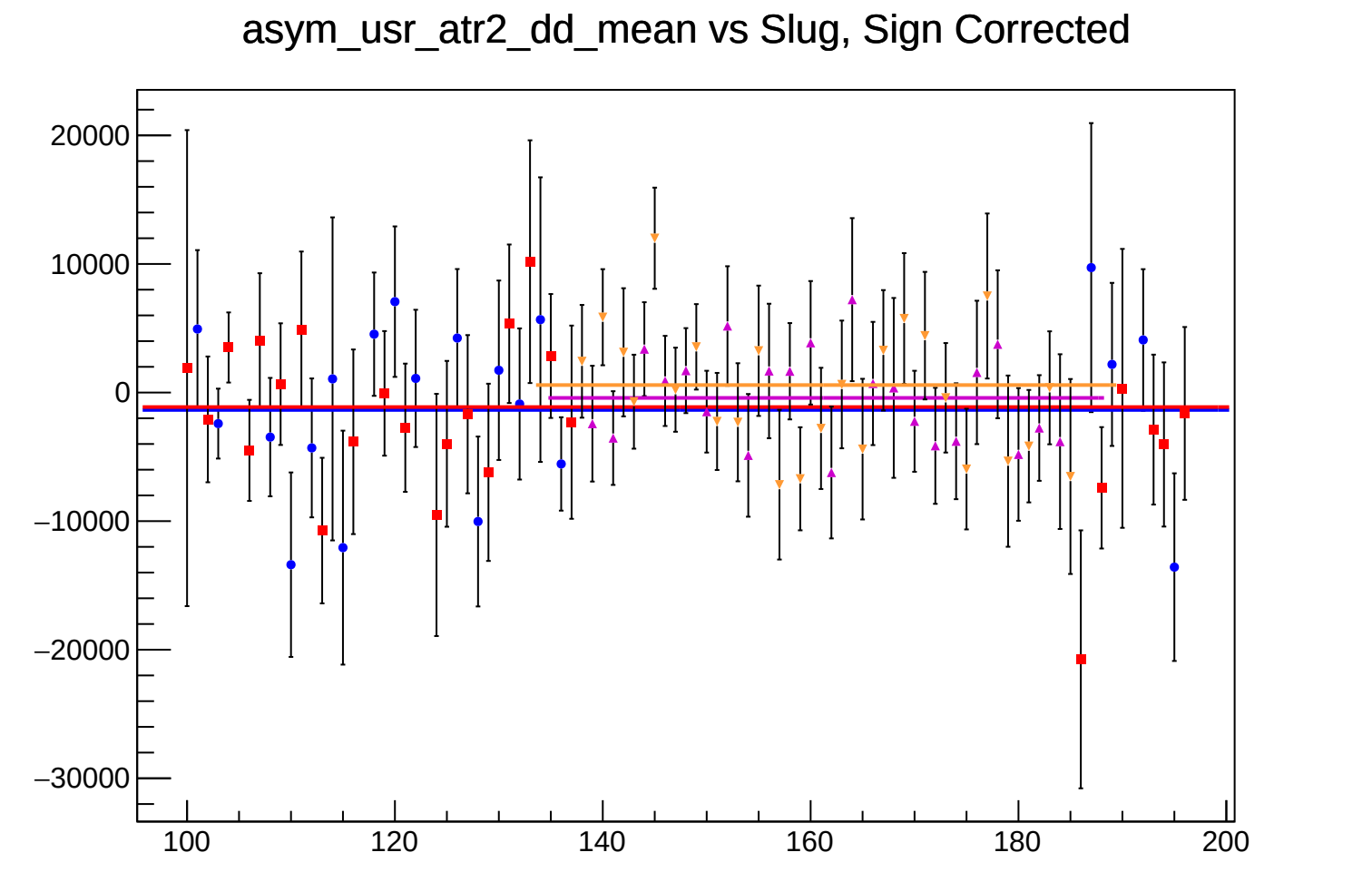
Left: 3842.051+/-0.452 $\chi^2$/NDF: 2314737.5/47

Right: 3467.640+/-0.558 $\chi^2$/NDF: 3987736.1/44

In: 3776.220+/-0.517 $\chi^2$/NDF:2484171.1/42

Out: 3623.119+/-0.478 $\chi^2$/NDF:4043315.4/49

All: 3693.694+/-0.351 $\chi^2$/NDF: 6574777.0/92




Right In: -1352.859+/-1226.556 $\chi^2$/NDF: 19.6/19

Left Out: 583.278+/-894.900 $\chi^2$/NDF:27.4/24

Right Out: -1128.301+/-1113.470 $\chi^2$/NDF: 19.7/24

Left In: -416.803+/-919.006 $\chi^2$/NDF:12.5/22

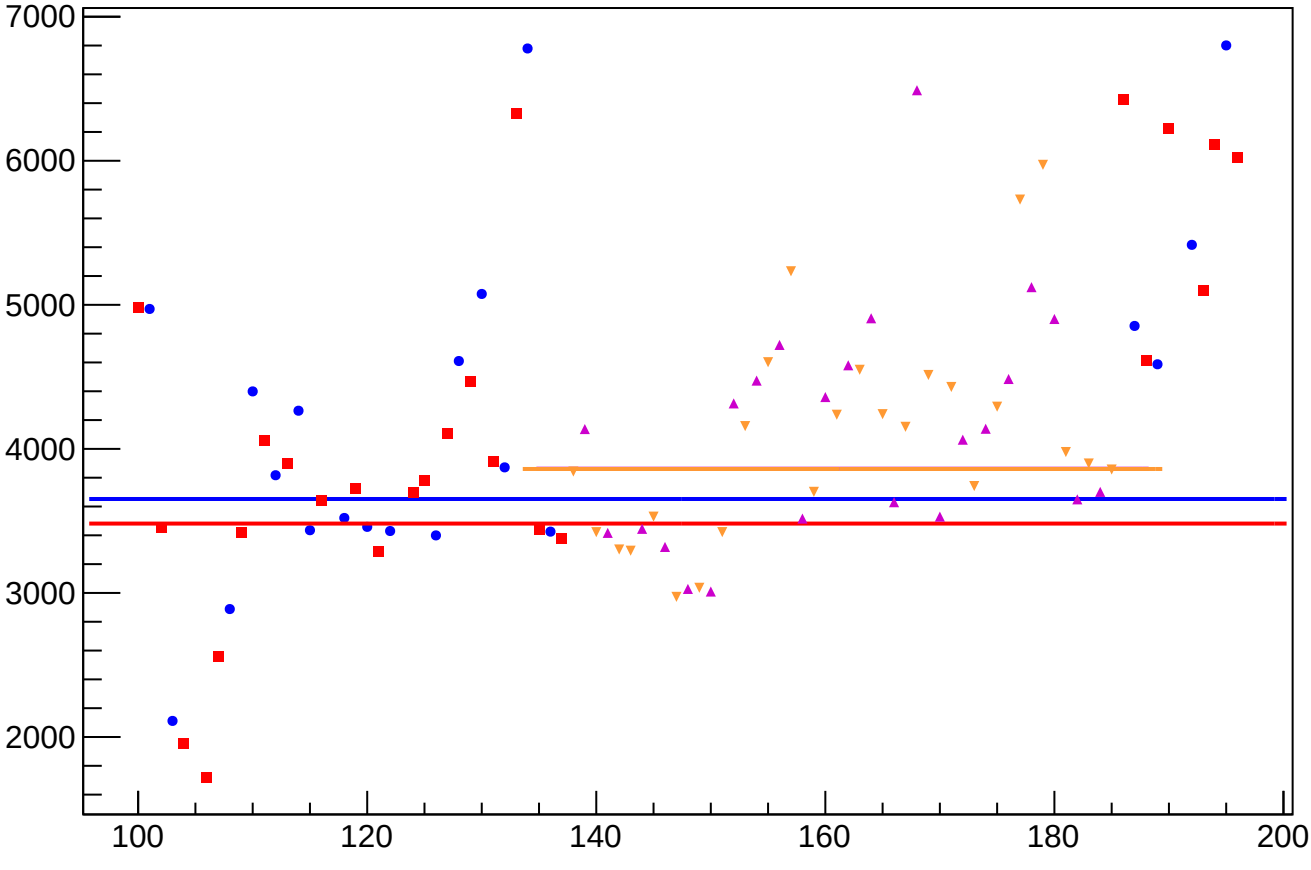
Left: 96.526+/-641.143 $\chi^2$/NDF: 40.5/47

Right: -1229.753+/-824.430 $\chi^2$/NDF: 39.3/44

In: -753.356+/-735.467 $\chi^2$/NDF:32.4/42

Out: -88.422+/-697.537 $\chi^2$/NDF:48.6/49

All: -403.301+/-506.111 $\chi^2$/NDF: 81.4/92




Right In: 3652.199+/-0.867 $\chi^2$/NDF: 1770694.8/19

Left Out: 3860.536+/-0.633 $\chi^2$/NDF:1097292.6/24

Right Out: 3481.557+/-0.776 $\chi^2$/NDF: 2739295.2/24

Left In: 3862.339+/-0.650 $\chi^2$/NDF:1142179.8/22

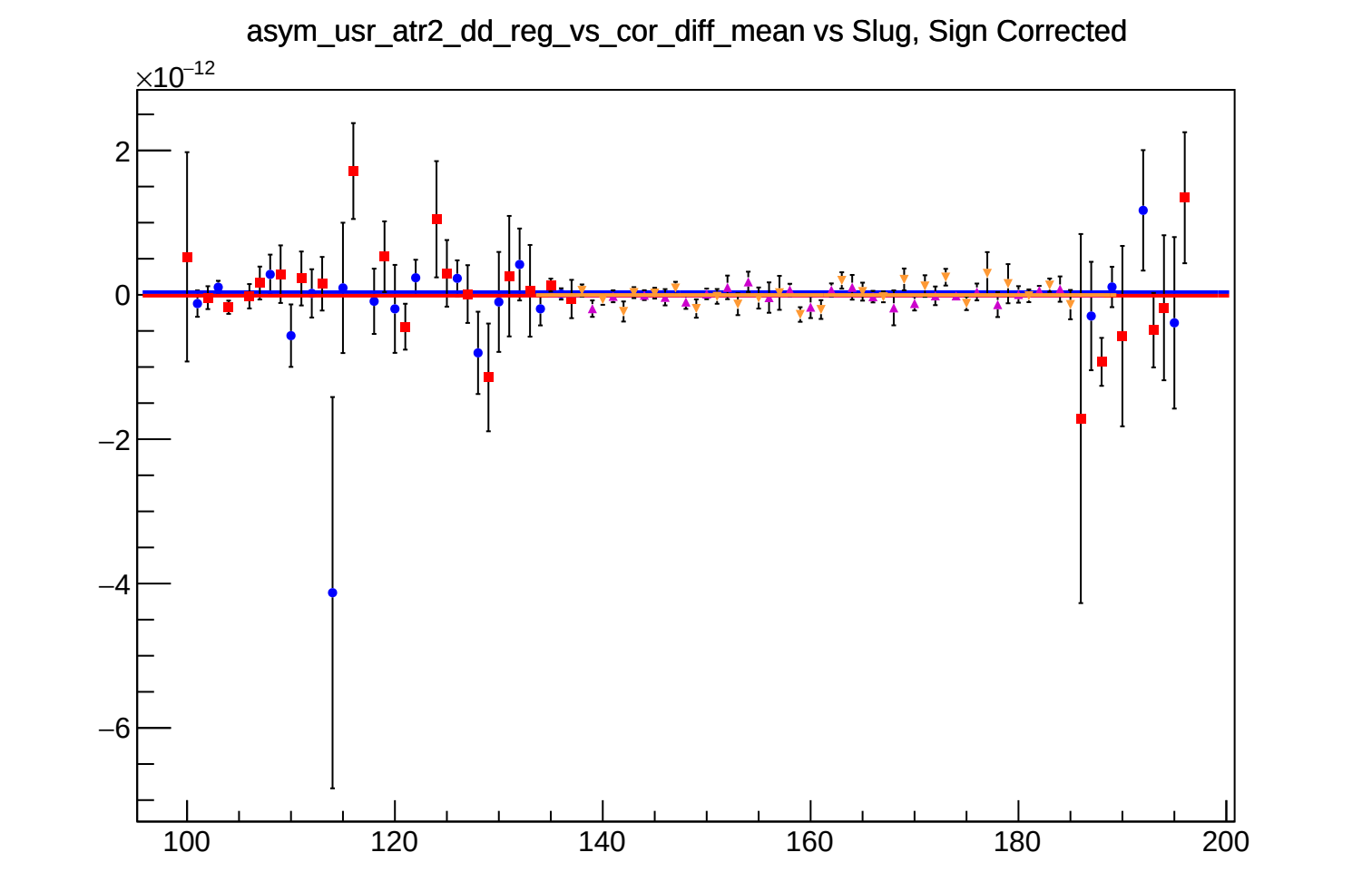
Left: 3861.414+/-0.453 $\chi^2$/NDF: 2239476.3/47

Right: 3557.468+/-0.578 $\chi^2$/NDF: 4531479.7/44

In: 3786.784+/-0.520 $\chi^2$/NDF:2950472.5/42

Out: 3709.268+/-0.491 $\chi^2$/NDF:3979754.8/49

All: 3745.762+/-0.357 $\chi^2$/NDF: 6941984.9/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.5/24

Left In: -0.000+/-0.000 $\chi^2$/NDF:12.8/22

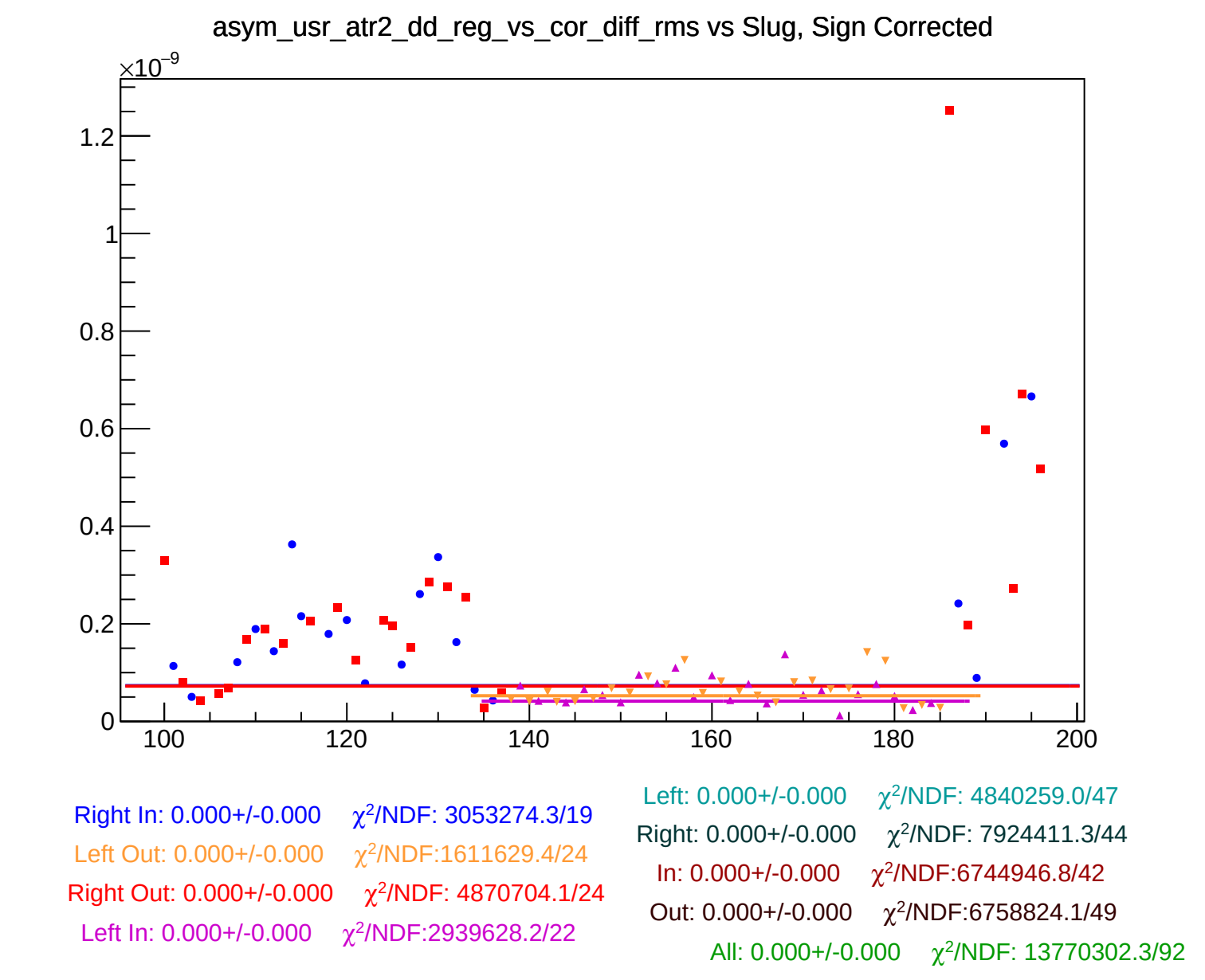
Left: -0.000+/-0.000 $\chi^2$/NDF: 47.1/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 48.1/44

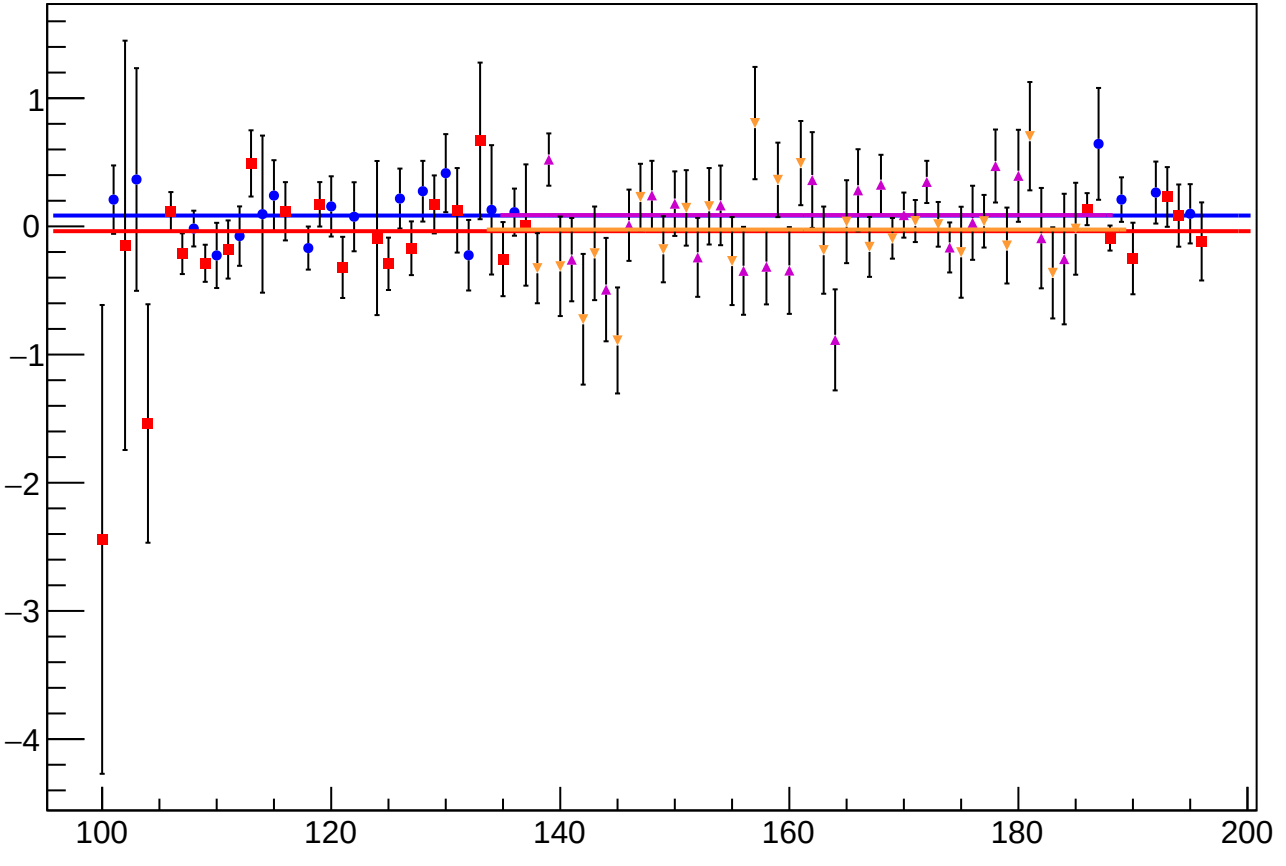
In: -0.000+/-0.000 $\chi^2$/NDF:27.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:67.8/49

All: -0.000+/-0.000 $\chi^2$/NDF: 95.4/92


asym_usr_atr2_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3053274.3/19
Left Out: 0.000+/-0.000 χ²/NDF:1611629.4/24
Right Out: 0.000+/-0.000 χ²/NDF: 4870704.1/24
Left In: 0.000+/-0.000 χ²/NDF:2939628.2/22
Left: 0.000+/-0.000 χ²/NDF: 4840259.0/47
Right: 0.000+/-0.000 χ²/NDF: 7924411.3/44
In: 0.000+/-0.000 χ²/NDF:6744946.8/42
Out: 0.000+/-0.000 χ²/NDF:6758824.1/49
All: 0.000+/-0.000 χ²/NDF: 13770302.3/92

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.085+/-0.053 $\chi^2$/NDF: 11.7/19

Left Out: -0.025+/-0.055 $\chi^2$/NDF:24.1/24

Right Out: -0.037+/-0.042 $\chi^2$/NDF: 26.9/24

Left In: 0.088+/-0.057 $\chi^2$/NDF:30.0/22

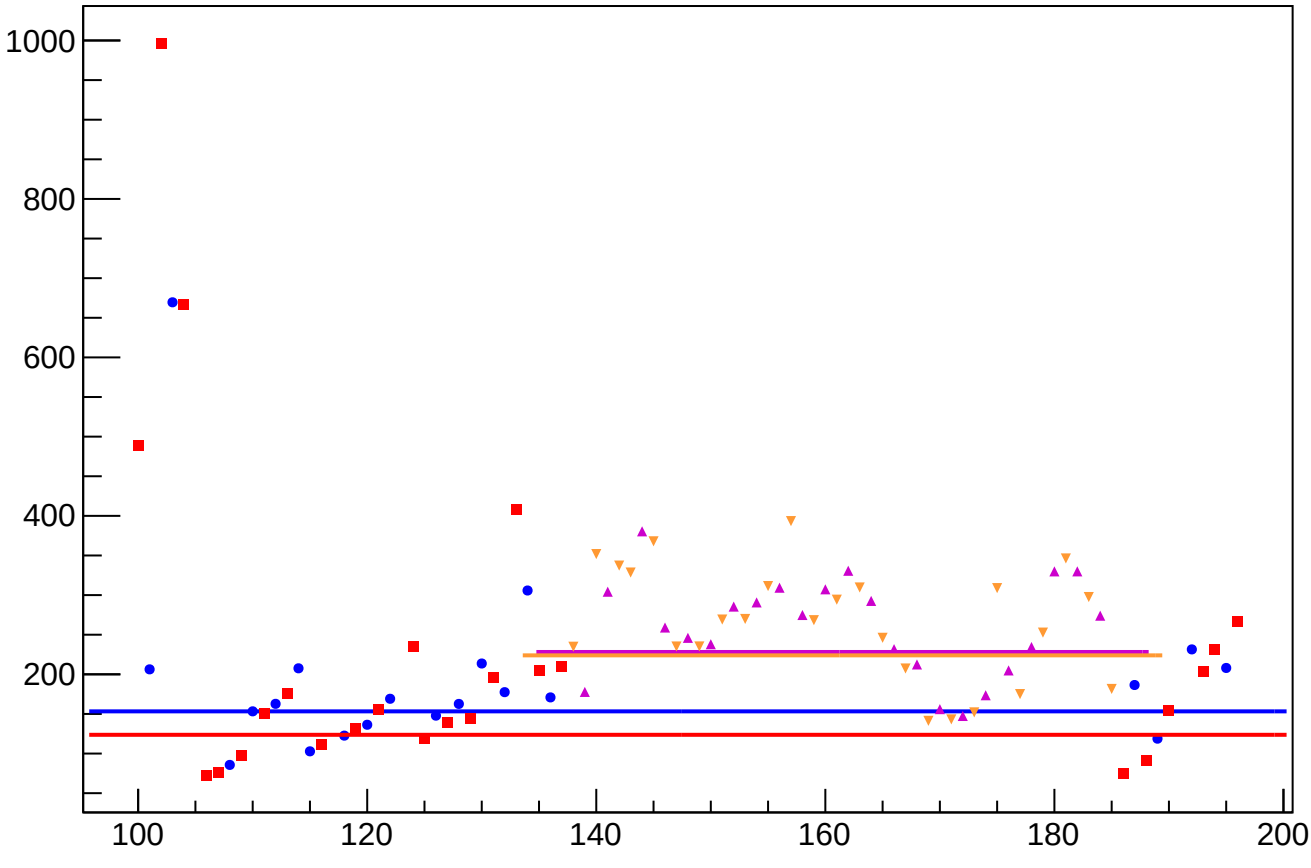
Left: 0.030+/-0.039 $\chi^2$/NDF: 56.1/47

Right: 0.009+/-0.033 $\chi^2$/NDF: 41.8/44

In: 0.086+/-0.039 $\chi^2$/NDF:41.7/42

Out: -0.033+/-0.033 $\chi^2$/NDF:51.0/49

All: 0.018+/-0.025 $\chi^2$/NDF: 98.0/92




Right In: 153.264+/-0.038 $\chi^2$/NDF: 2136057.5/19

Left Out: 223.945+/-0.039 $\chi^2$/NDF:3438444.8/24

Right Out: 123.666+/-0.030 $\chi^2$/NDF: 4479755.6/24

Left In: 228.199+/-0.040 $\chi^2$/NDF:2488915.3/22

Left: 225.993+/-0.028 $\chi^2$/NDF: 5933206.6/47

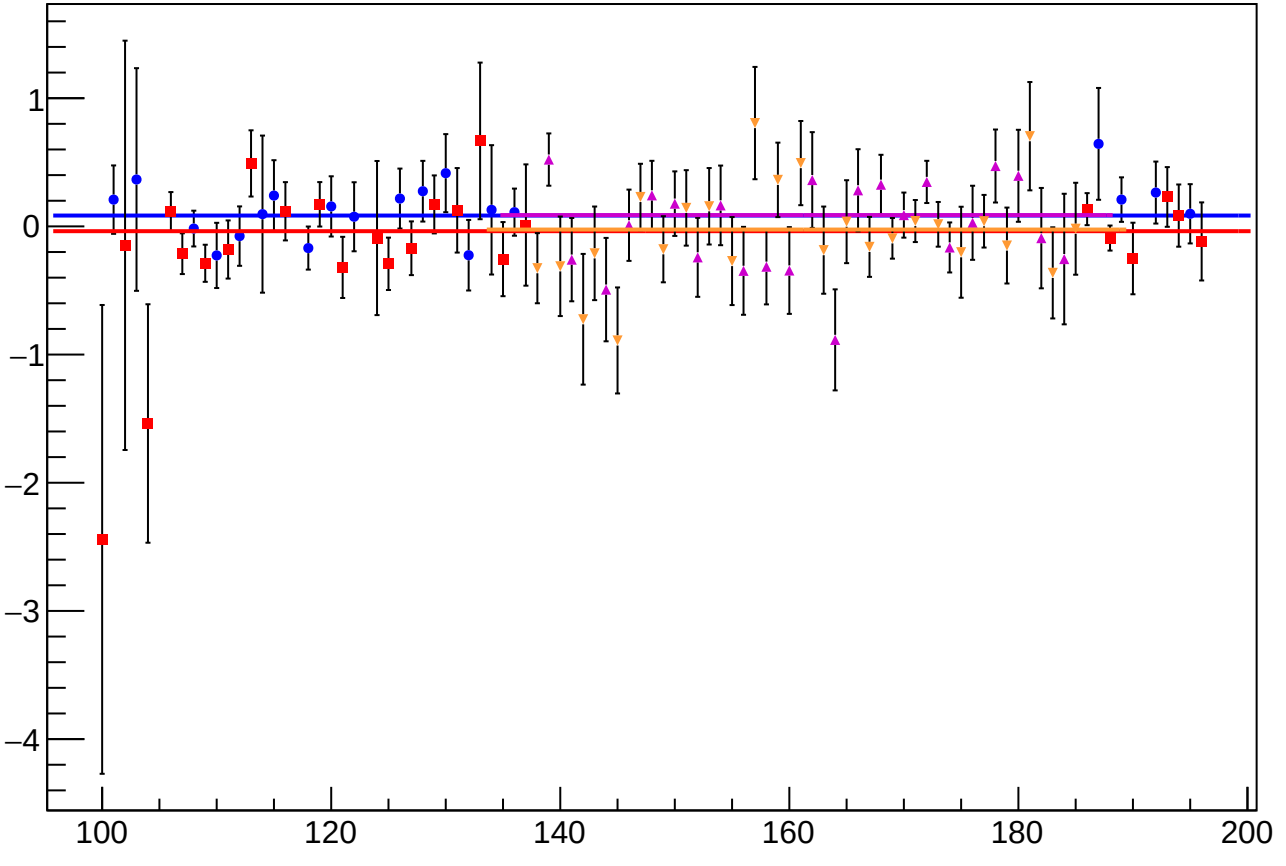
Right: 135.056+/-0.023 $\chi^2$/NDF: 6994982.1/44

In: 188.458+/-0.027 $\chi^2$/NDF:6480371.4/42

Out: 161.132+/-0.024 $\chi^2$/NDF:12144017.0/49

All: 172.742+/-0.018 $\chi^2$/NDF: 19194107.7/92

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.085+/-0.053 $\chi^2$/NDF: 11.7/19

Left Out: -0.025+/-0.055 $\chi^2$/NDF:24.1/24

Right Out: -0.037+/-0.042 $\chi^2$/NDF: 26.9/24

Left In: 0.088+/-0.057 $\chi^2$/NDF:30.0/22

Left: 0.030+/-0.039 $\chi^2$/NDF: 56.1/47

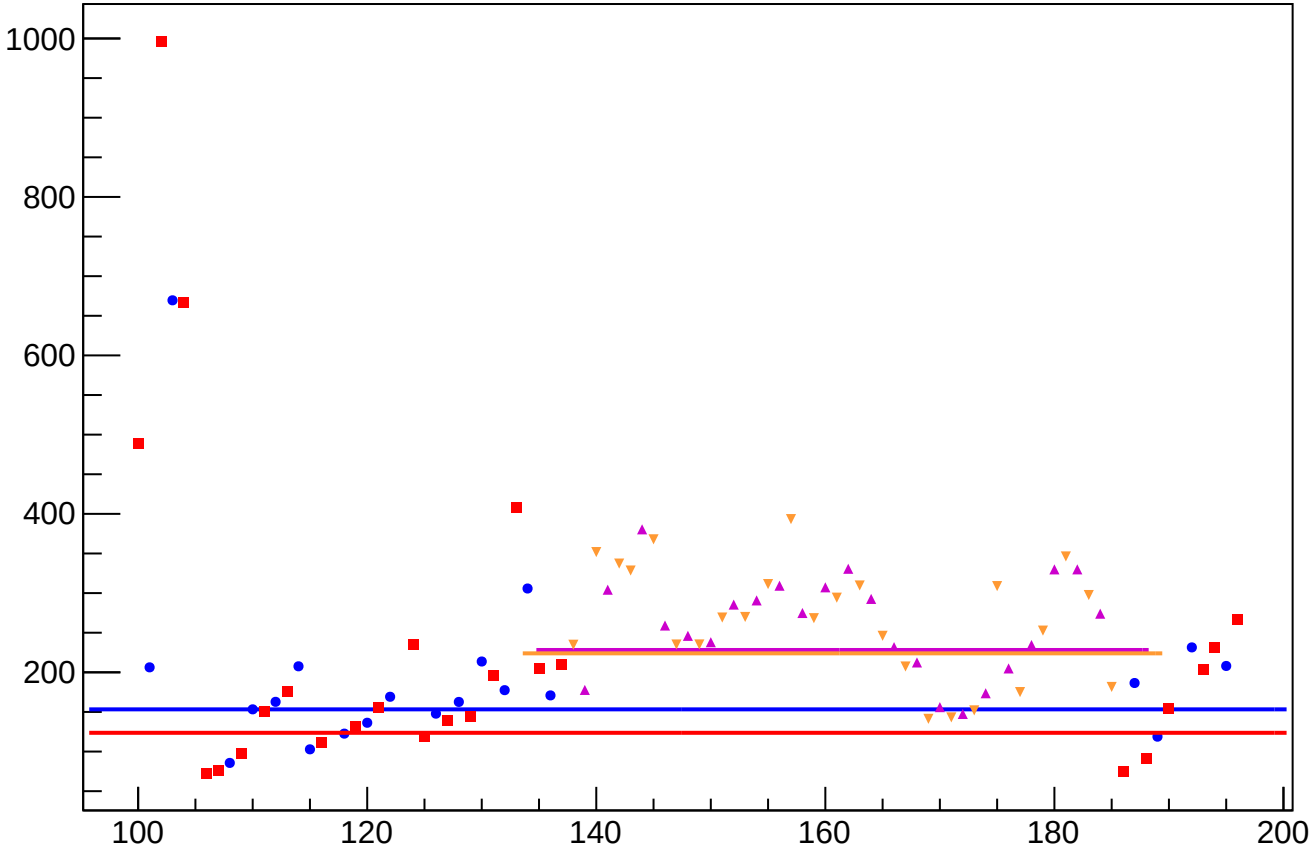
Right: 0.009+/-0.033 $\chi^2$/NDF: 41.8/44

In: 0.086+/-0.039 $\chi^2$/NDF:41.7/42

Out: -0.033+/-0.033 $\chi^2$/NDF:51.0/49

All: 0.018+/-0.025 $\chi^2$/NDF: 98.0/92

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 153.264+/-0.038 $\chi^2$/NDF: 2136057.5/19

Left Out: 223.945+/-0.039 $\chi^2$/NDF:3438444.8/24

Right Out: 123.666+/-0.030 $\chi^2$/NDF: 4479755.6/24

Left In: 228.199+/-0.040 $\chi^2$/NDF:2488915.3/22

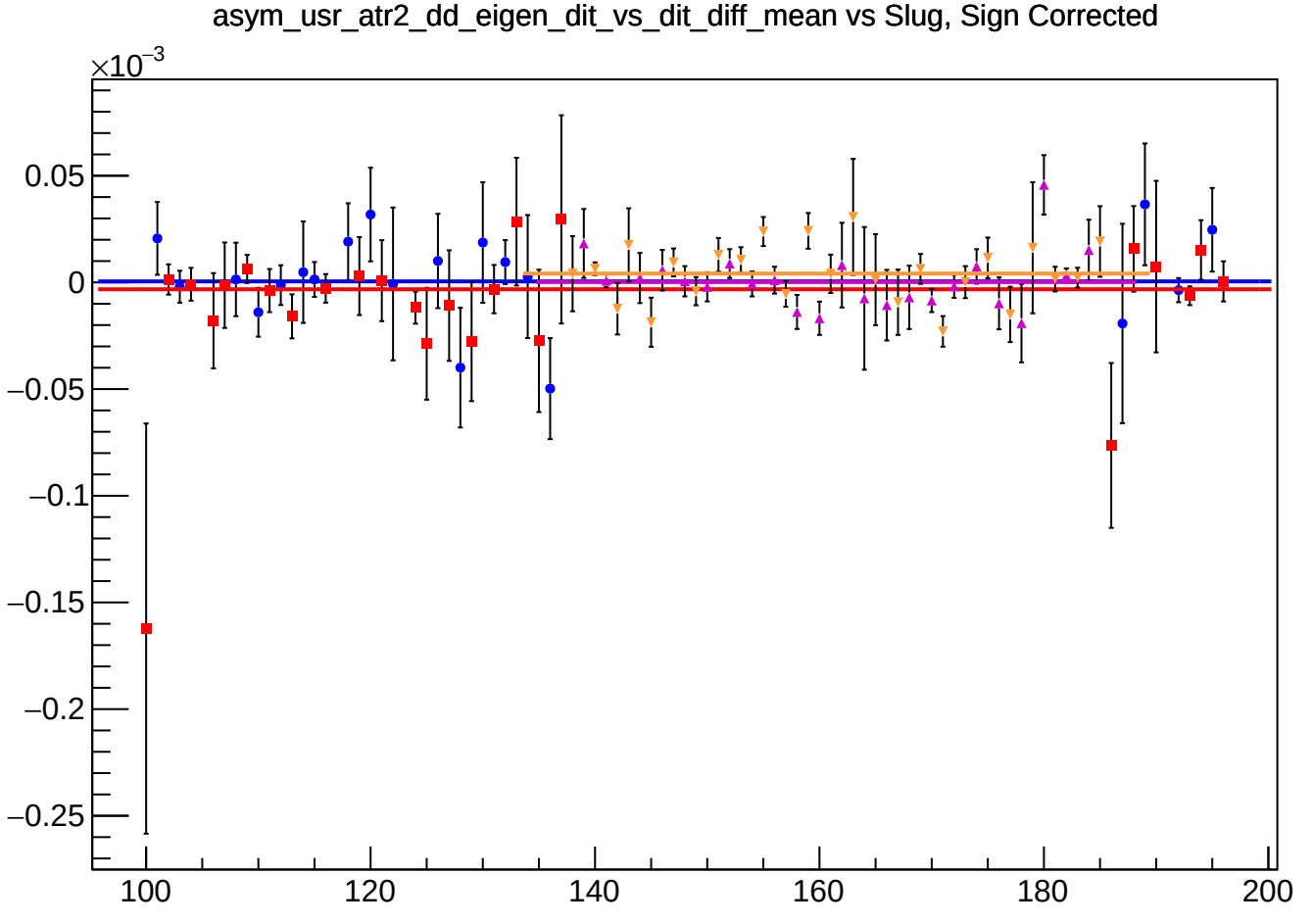
Left: 225.993+/-0.028 $\chi^2$/NDF: 5933206.6/47

Right: 135.056+/-0.023 $\chi^2$/NDF: 6994982.1/44

In: 188.458+/-0.027 $\chi^2$/NDF:6480371.4/42

Out: 161.132+/-0.024 $\chi^2$/NDF:12144017.0/49

All: 172.742+/-0.018 $\chi^2$/NDF: 19194107.7/92




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:48.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.6/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.1/22

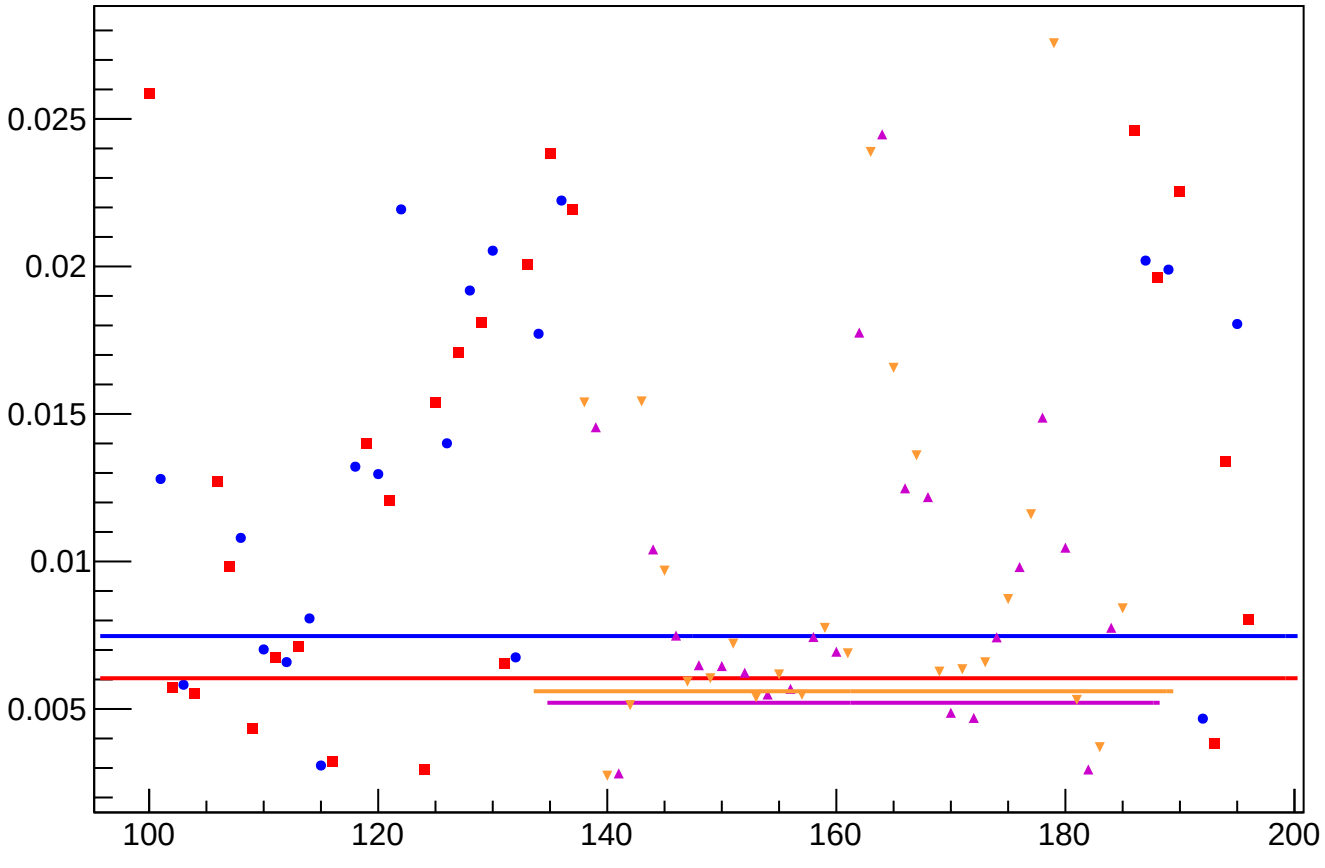
Left: 0.000+/-0.000 $\chi^2$/NDF: 82.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 38.8/44

In: 0.000+/-0.000 $\chi^2$/NDF:48.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:76.5/49

All: 0.000+/-0.000 $\chi^2$/NDF: 125.4/92




Right In: 0.007+/-0.000 $\chi^2$/NDF: 5212222.2/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:7769287.5/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 6872559.6/24

Left In: 0.005+/-0.000 $\chi^2$/NDF:7460452.2/22

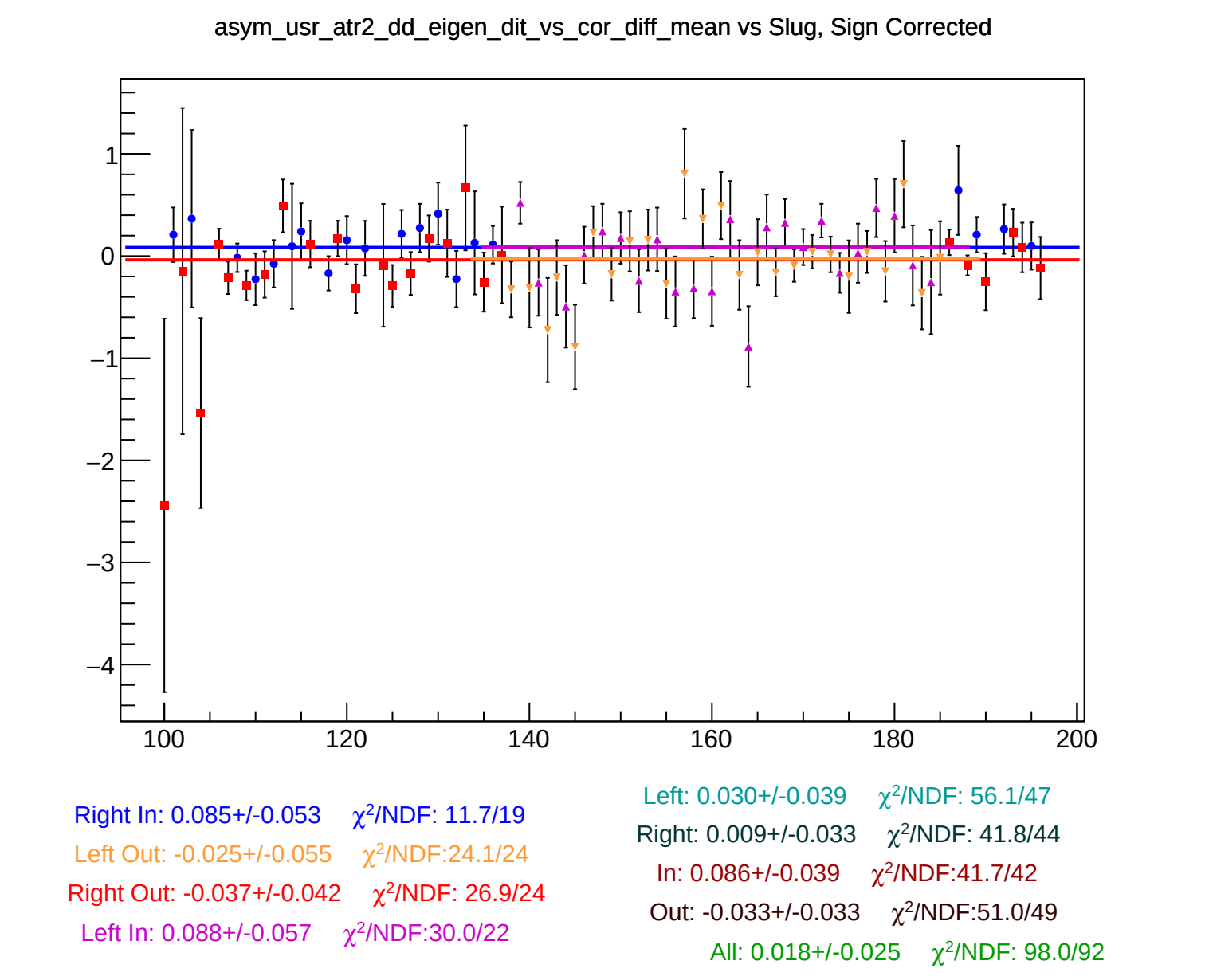
Left: 0.005+/-0.000 $\chi^2$/NDF: 15302092.7/47

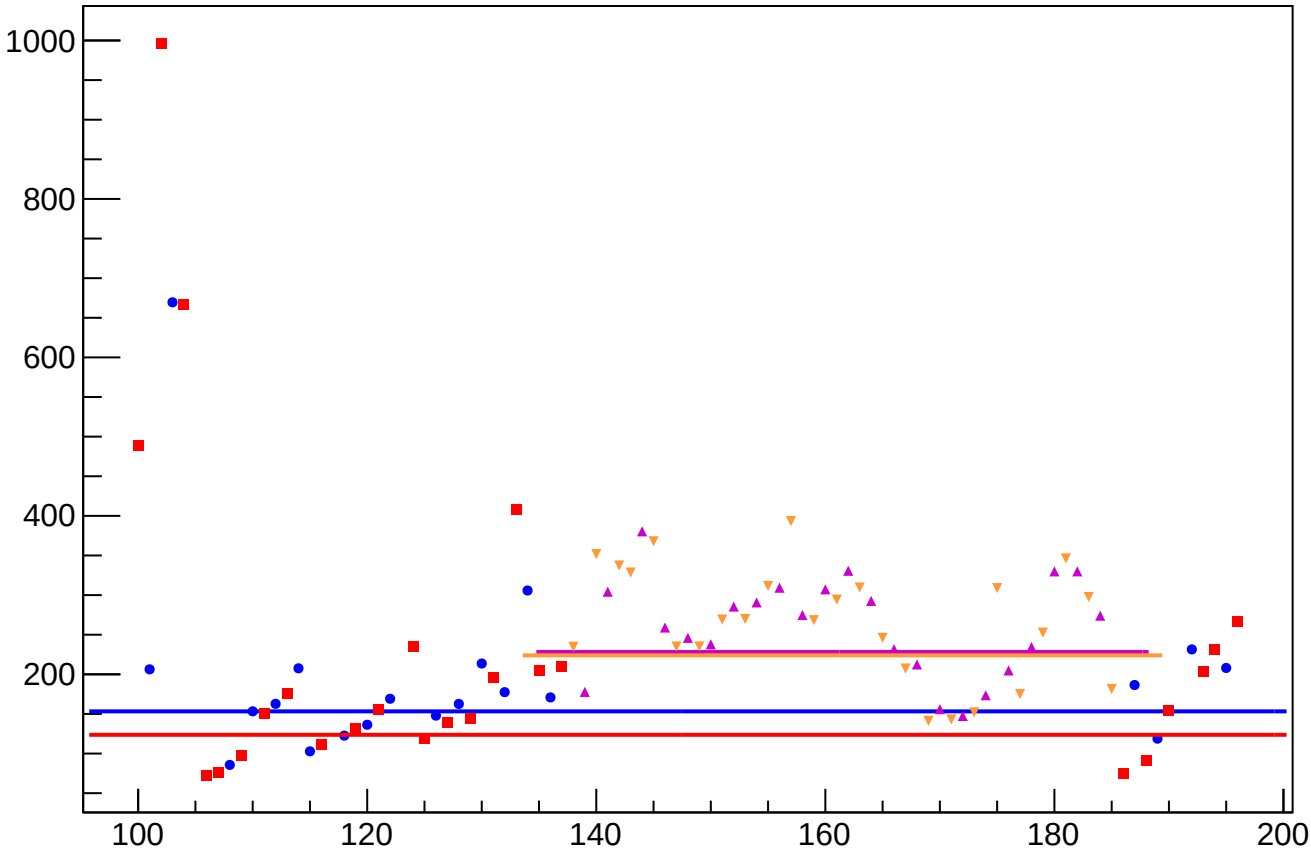
Right: 0.007+/-0.000 $\chi^2$/NDF: 12398196.2/44

In: 0.006+/-0.000 $\chi^2$/NDF:13649793.3/42

Out: 0.006+/-0.000 $\chi^2$/NDF:14699199.0/49

All: 0.006+/-0.000 $\chi^2$/NDF: 28353844.3/92


asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
1
0
−1
−2
−3
−4
100
120
140
160
180
200
Right In: 0.085+/-0.053 χ²/NDF: 11.7/19
Left Out: -0.025+/-0.055 χ²/NDF:24.1/24
Right Out: -0.037+/-0.042 χ²/NDF: 26.9/24
Left In: 0.088+/-0.057 χ²/NDF:30.0/22
Left: 0.030+/-0.039 χ²/NDF: 56.1/47
Right: 0.009+/-0.033 χ²/NDF: 41.8/44
In: 0.086+/-0.039 χ²/NDF:41.7/42
Out: -0.033+/-0.033 χ²/NDF:51.0/49
All: 0.018+/-0.025 χ²/NDF: 98.0/92




Right In: 153.261+/-0.038 $\chi^2$/NDF: 2136182.8/19

Left Out: 223.946+/-0.039 $\chi^2$/NDF:3438541.7/24

Right Out: 123.671+/-0.030 $\chi^2$/NDF: 4479352.1/24

Left In: 228.201+/-0.040 $\chi^2$/NDF:2488951.6/22

Left: 225.995+/-0.028 $\chi^2$/NDF: 5933340.6/47

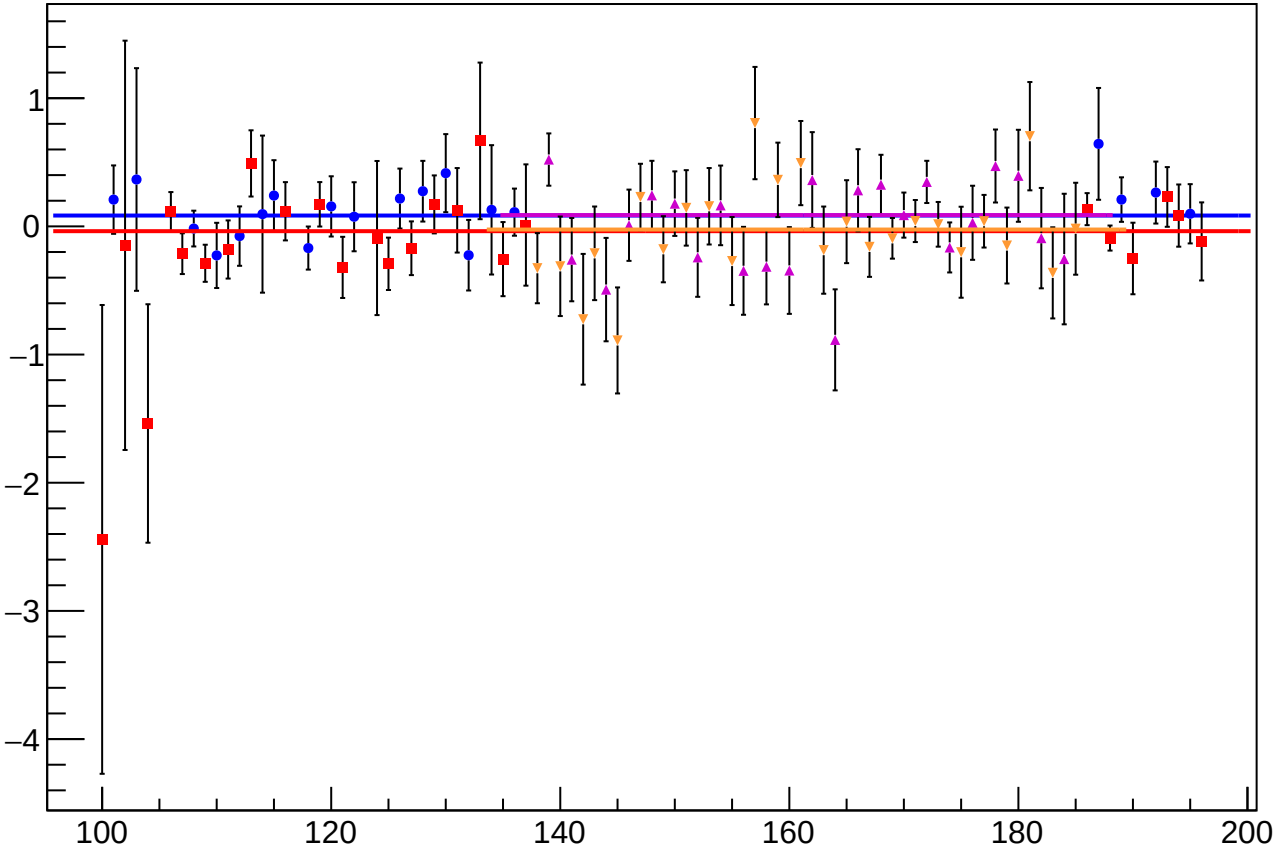
Right: 135.058+/-0.023 $\chi^2$/NDF: 6994488.8/44

In: 188.456+/-0.027 $\chi^2$/NDF:6480811.0/42

Out: 161.136+/-0.024 $\chi^2$/NDF:12143293.7/49

All: 172.744+/-0.018 $\chi^2$/NDF: 19193547.0/92

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.085+/-0.053 $\chi^2$/NDF: 11.7/19

Left Out: -0.025+/-0.055 $\chi^2$/NDF:24.1/24

Right Out: -0.037+/-0.042 $\chi^2$/NDF: 26.9/24

Left In: 0.088+/-0.057 $\chi^2$/NDF:30.0/22

Left: 0.030+/-0.039 $\chi^2$/NDF: 56.1/47

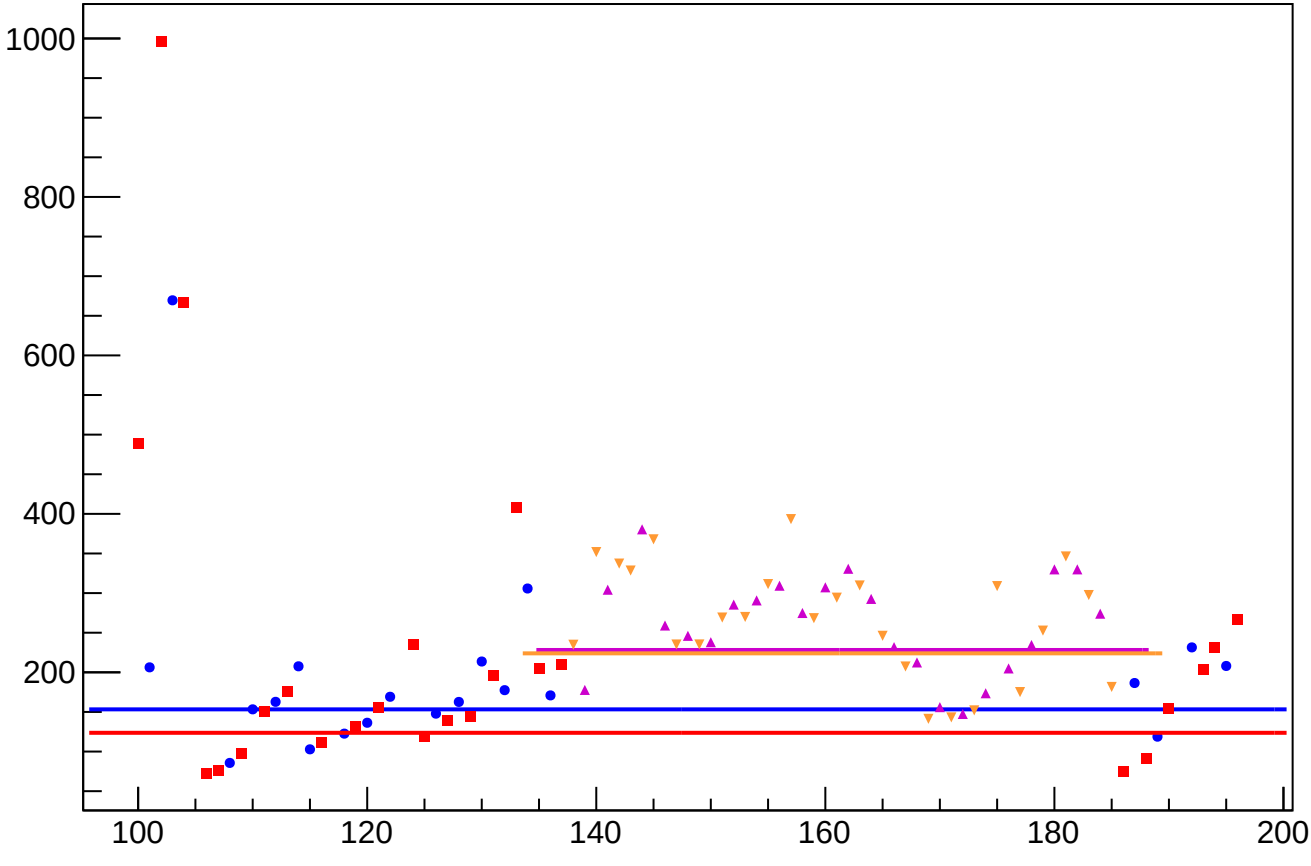
Right: 0.009+/-0.033 $\chi^2$/NDF: 41.8/44

In: 0.086+/-0.039 $\chi^2$/NDF:41.7/42

Out: -0.033+/-0.033 $\chi^2$/NDF:51.0/49

All: 0.018+/-0.025 $\chi^2$/NDF: 98.0/92

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 153.261+/-0.038 $\chi^2$/NDF: 2136182.8/19

Left Out: 223.946+/-0.039 $\chi^2$/NDF:3438541.7/24

Right Out: 123.671+/-0.030 $\chi^2$/NDF: 4479352.1/24

Left In: 228.201+/-0.040 $\chi^2$/NDF:2488951.6/22

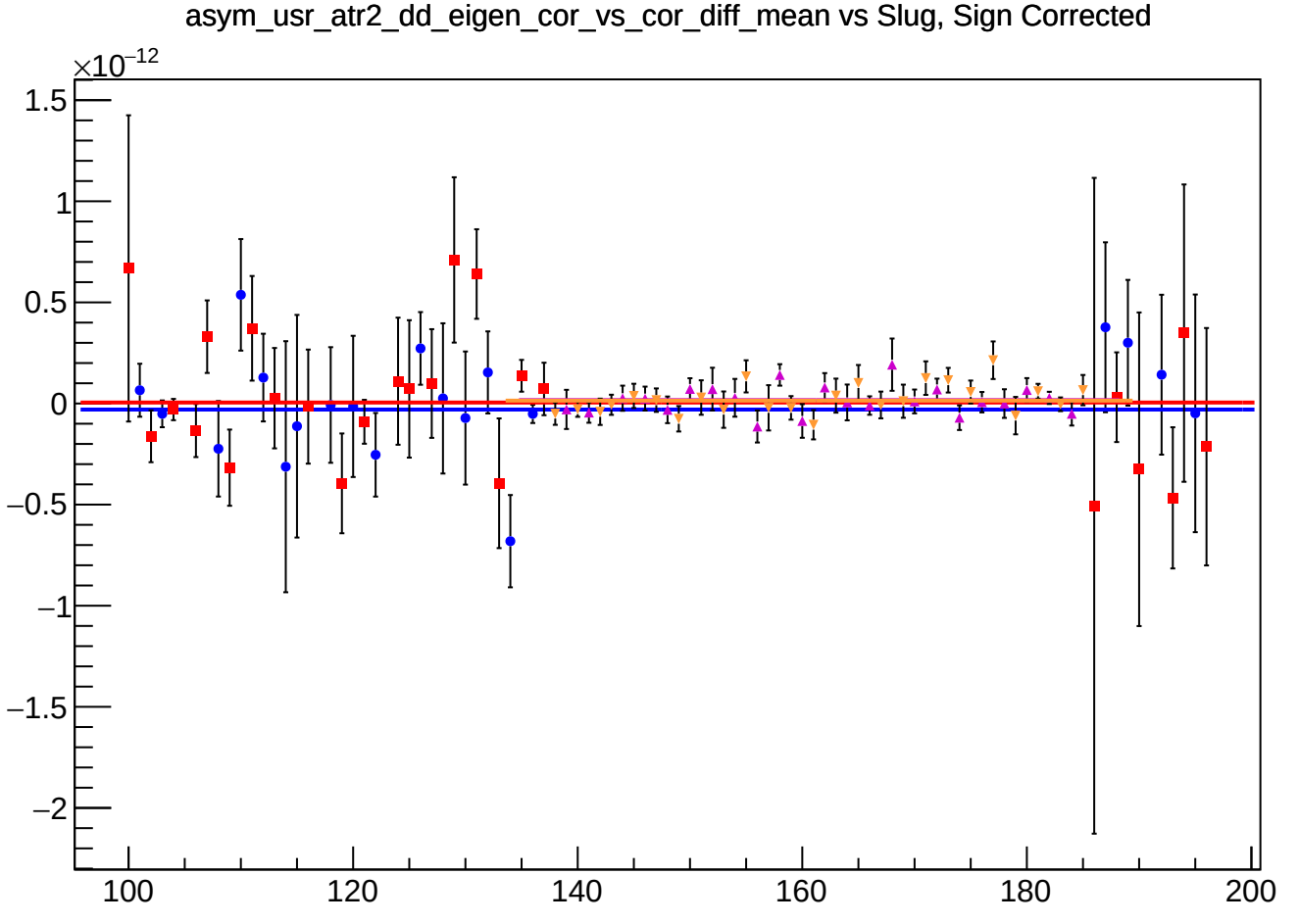
Left: 225.995+/-0.028 $\chi^2$/NDF: 5933340.6/47

Right: 135.058+/-0.023 $\chi^2$/NDF: 6994488.8/44

In: 188.456+/-0.027 $\chi^2$/NDF:6480811.0/42

Out: 161.136+/-0.024 $\chi^2$/NDF:12143293.7/49

All: 172.744+/-0.018 $\chi^2$/NDF: 19193547.0/92




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 34.3/24

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.7/22

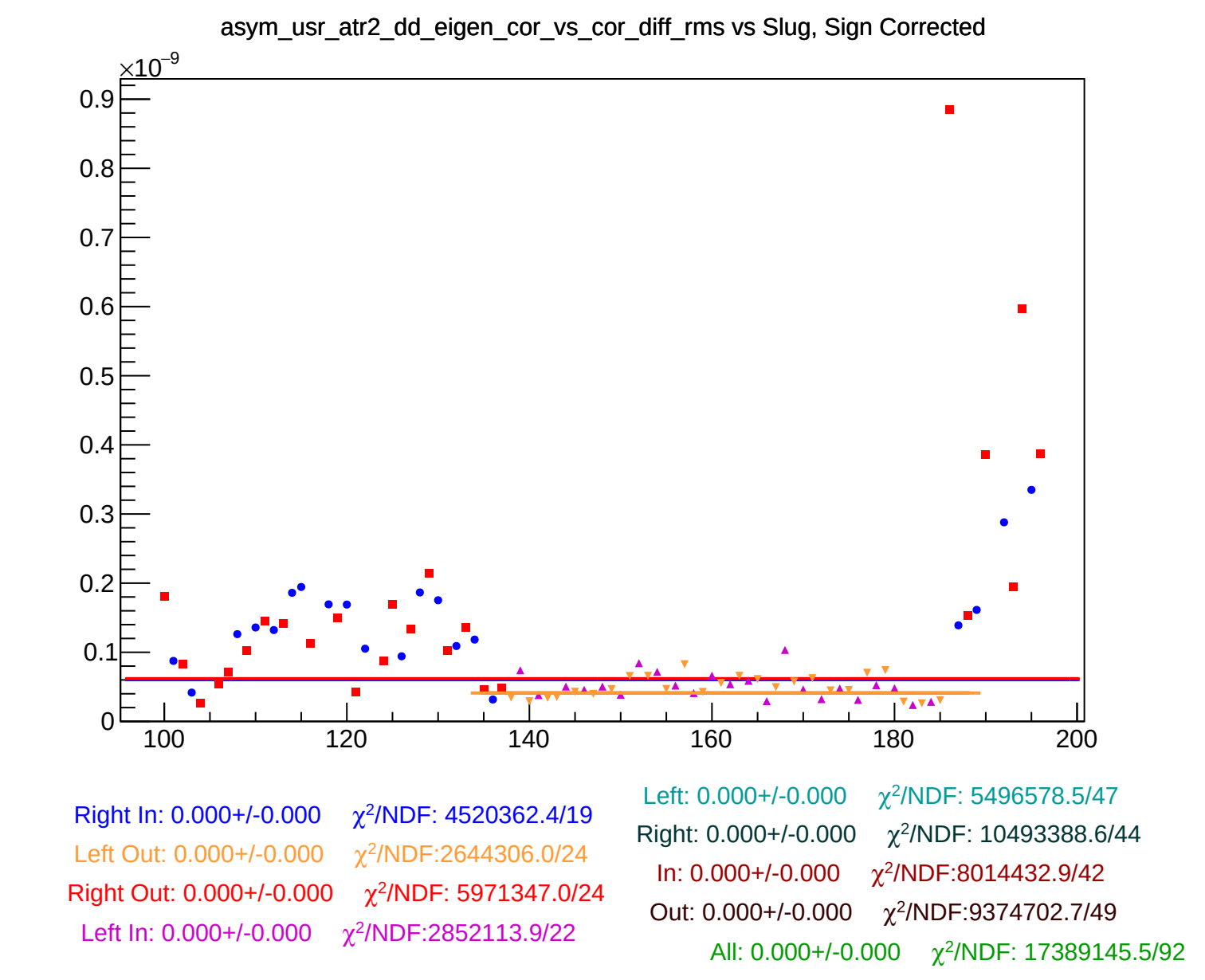
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.1/47

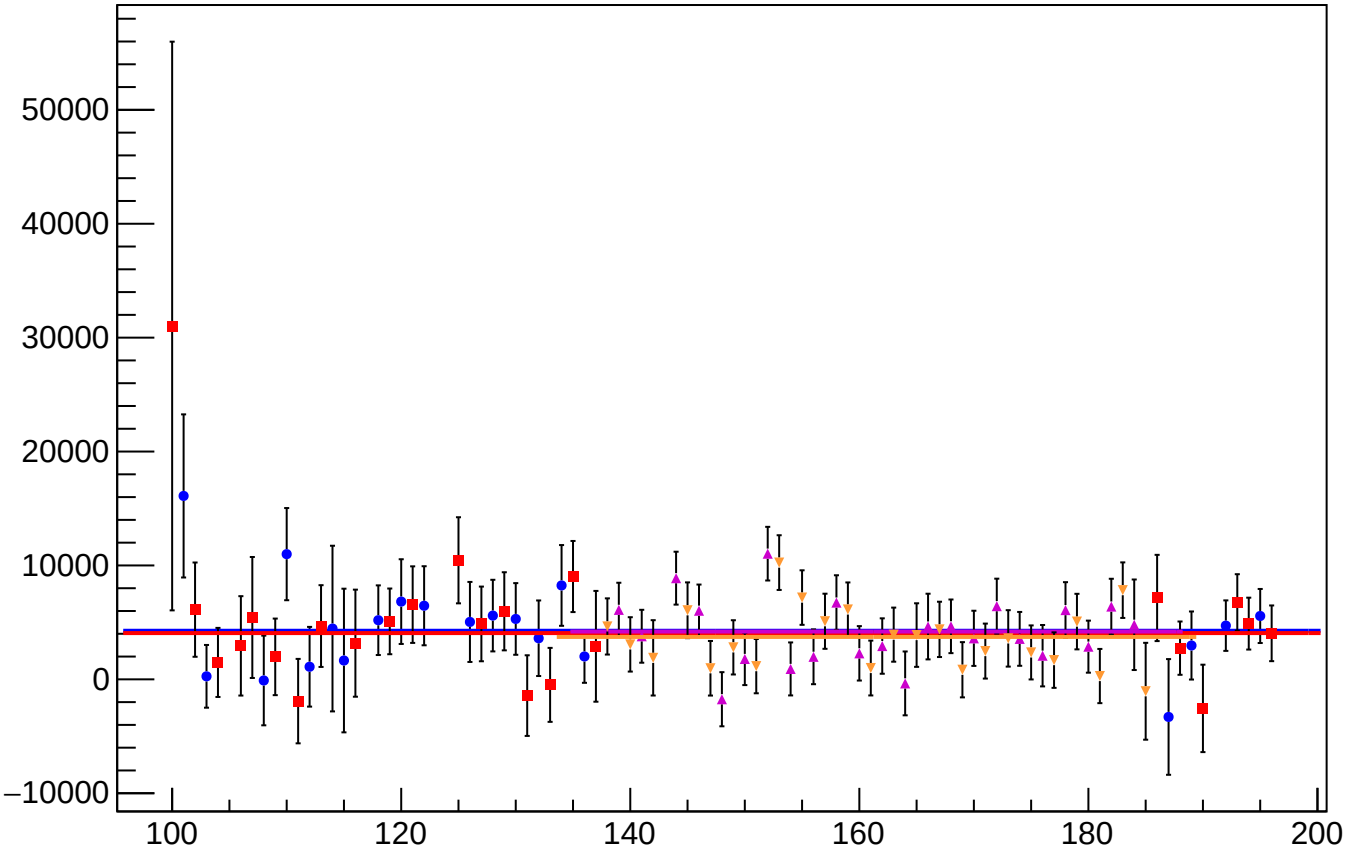
Right: -0.000+/-0.000 $\chi^2$/NDF: 56.6/44

In: 0.000+/-0.000 $\chi^2$/NDF:45.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:59.7/49

All: 0.000+/-0.000 $\chi^2$/NDF: 105.1/92


asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4520362.4/19
Left Out: 0.000+/-0.000 χ²/NDF:2644306.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 5971347.0/24
Left In: 0.000+/-0.000 χ²/NDF:2852113.9/22
Left: 0.000+/-0.000 χ²/NDF: 5496578.5/47
Right: 0.000+/-0.000 χ²/NDF: 10493388.6/44
In: 0.000+/-0.000 χ²/NDF:8014432.9/42
Out: 0.000+/-0.000 χ²/NDF:9374702.7/49
All: 0.000+/-0.000 χ²/NDF: 17389145.5/92




Right In: 4265.244+/-737.705 $\chi^2$/NDF: 16.1/19

Left Out: 3723.486+/-507.155 $\chi^2$/NDF:25.4/23

Right Out: 4061.174+/-680.427 $\chi^2$/NDF: 21.4/23

Left In: 4195.942+/-510.578 $\chi^2$/NDF:32.1/22

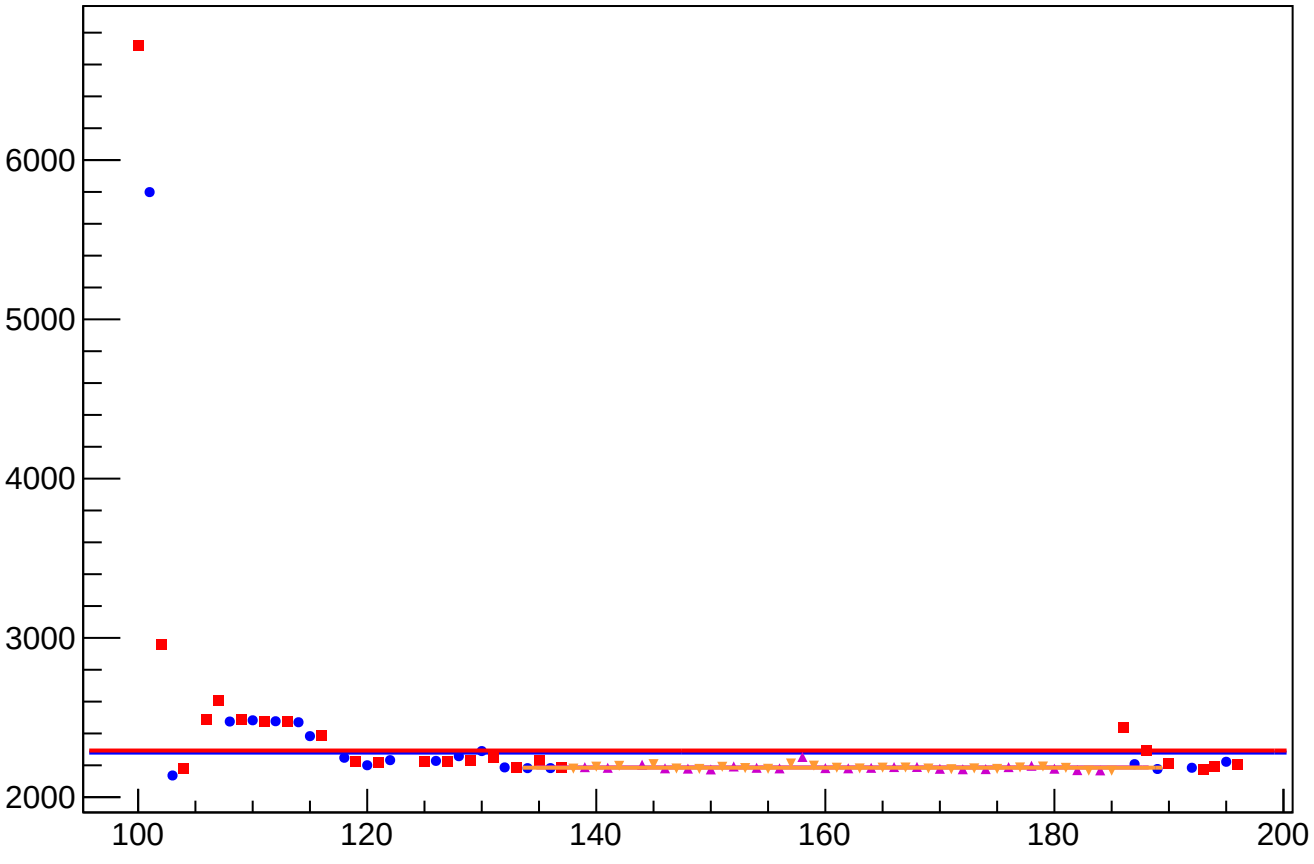
Left: 3958.125+/-359.817 $\chi^2$/NDF: 58.0/46

Right: 4154.980+/-500.160 $\chi^2$/NDF: 37.6/43

In: 4218.387+/-419.831 $\chi^2$/NDF:48.2/42

Out: 3844.087+/-406.630 $\chi^2$/NDF:47.0/47

All: 4025.260+/-292.086 $\chi^2$/NDF: 95.7/90




Right In: 2279.782+/-0.522 $\chi^2$/NDF: 522964.1/19

Left Out: 2185.133+/-0.359 $\chi^2$/NDF:815.1/23

Right Out: 2292.877+/-0.481 $\chi^2$/NDF: 169689.4/23

Left In: 2186.745+/-0.361 $\chi^2$/NDF:2063.9/22

Left: 2185.934+/-0.254 $\chi^2$/NDF: 2889.0/46

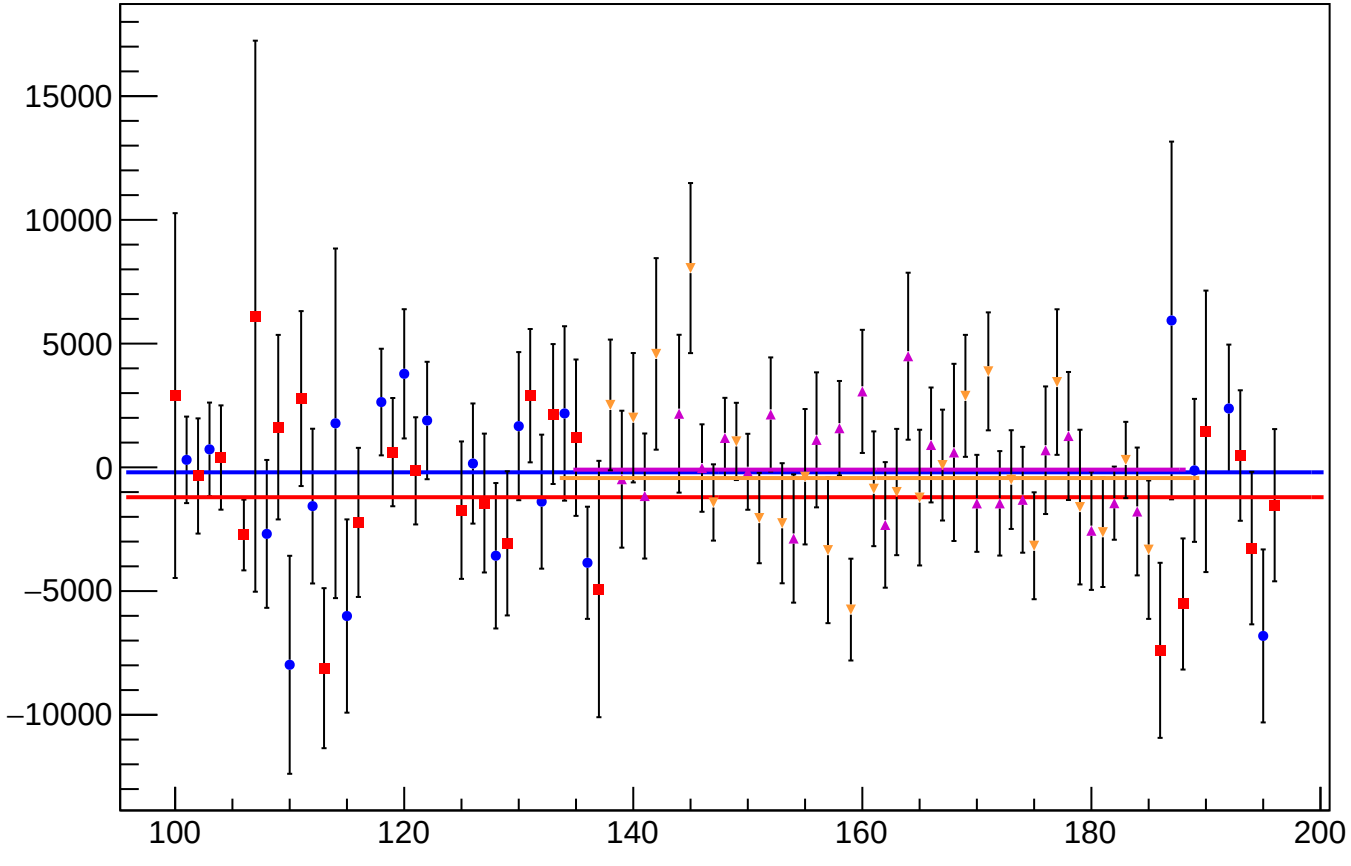
Right: 2286.857+/-0.354 $\chi^2$/NDF: 692994.0/43

In: 2216.878+/-0.297 $\chi^2$/NDF:546535.6/42

Out: 2223.612+/-0.288 $\chi^2$/NDF:202742.9/47

All: 2220.353+/-0.207 $\chi^2$/NDF: 749544.0/90

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -200.580+/-611.058 $\chi^2$/NDF: 21.7/19

Left Out: -432.286+/-462.383 $\chi^2$/NDF:31.3/23

Right Out: -1206.710+/-568.969 $\chi^2$/NDF: 22.1/23

Left In: -92.649+/-460.669 $\chi^2$/NDF:12.8/22

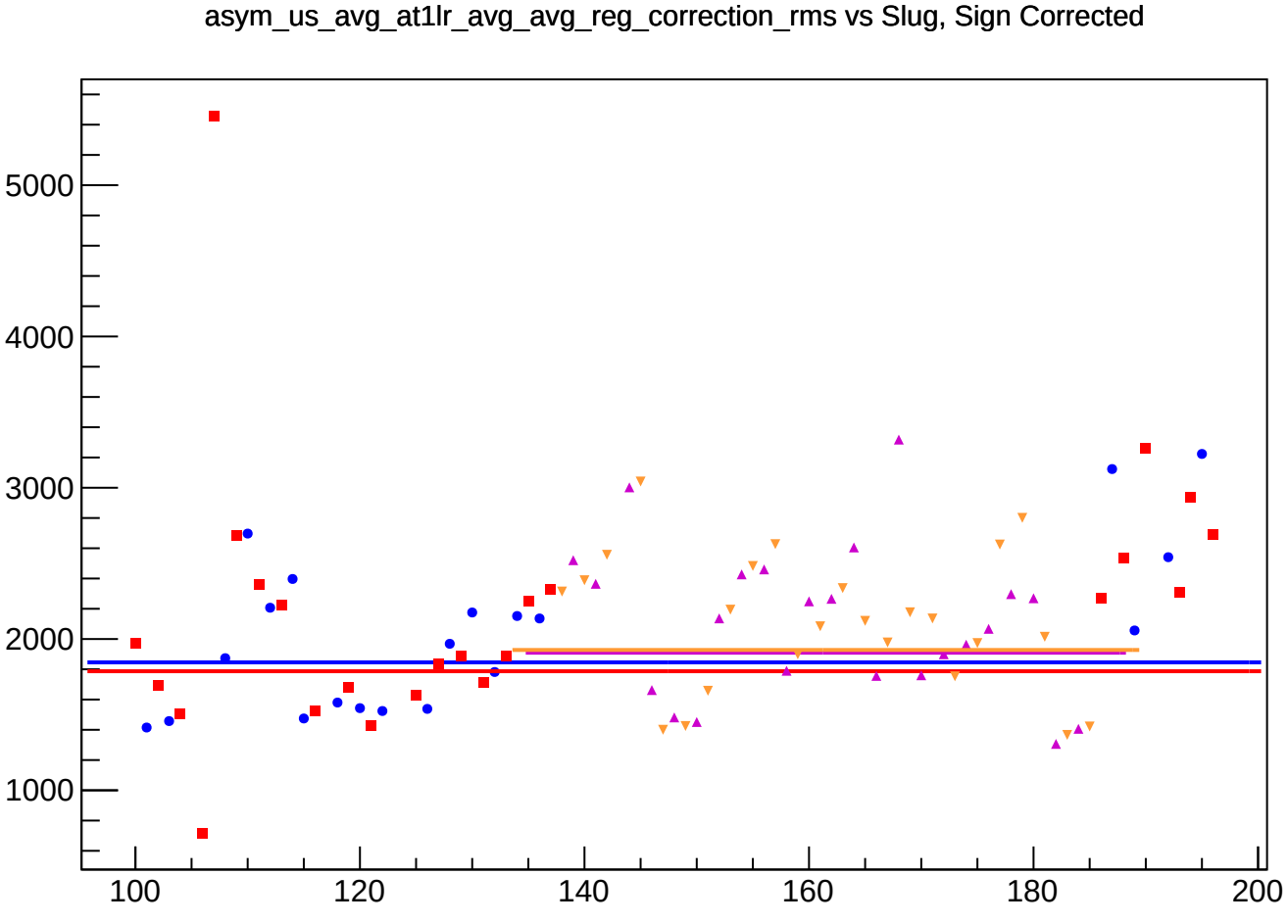
Left: -261.837+/-326.347 $\chi^2$/NDF: 44.3/46

Right: -739.485+/-416.407 $\chi^2$/NDF: 45.3/43

In: -131.762+/-367.848 $\chi^2$/NDF:34.5/42

Out: -740.310+/-358.833 $\chi^2$/NDF:54.5/47

All: -443.584+/-256.861 $\chi^2$/NDF: 90.5/90




Right In: 1845.894+/-0.432 $\chi^2$/NDF: 1069402.2/19

Left Out: 1927.660+/-0.327 $\chi^2$/NDF:1798383.1/23

Right Out: 1787.138+/-0.402 $\chi^2$/NDF: 2602581.0/23

Left In: 1909.612+/-0.326 $\chi^2$/NDF:1942264.8/22

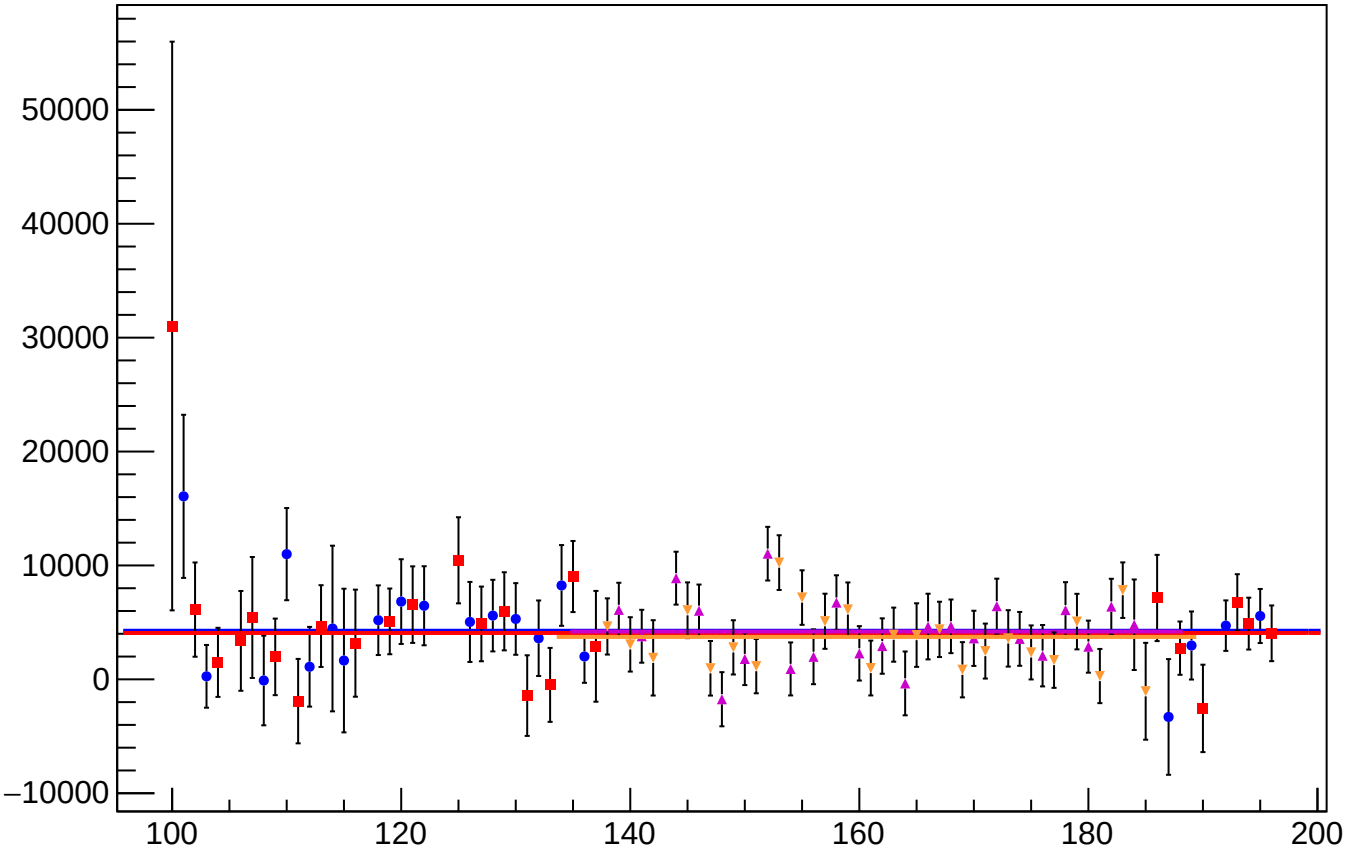
Left: 1918.603+/-0.231 $\chi^2$/NDF: 3742177.0/46

Right: 1814.423+/-0.294 $\chi^2$/NDF: 3681887.7/43

In: 1886.522+/-0.260 $\chi^2$/NDF:3025532.9/42

Out: 1871.768+/-0.254 $\chi^2$/NDF:4474436.3/47

All: 1878.962+/-0.182 $\chi^2$/NDF: 7501617.9/90




Right In: 4264.801+/-737.705 $\chi^2$/NDF: 16.1/19

Left Out: 3723.433+/-507.155 $\chi^2$/NDF:25.4/23

Right Out: 4072.261+/-680.498 $\chi^2$/NDF: 21.4/23

Left In: 4196.060+/-510.578 $\chi^2$/NDF:32.1/22

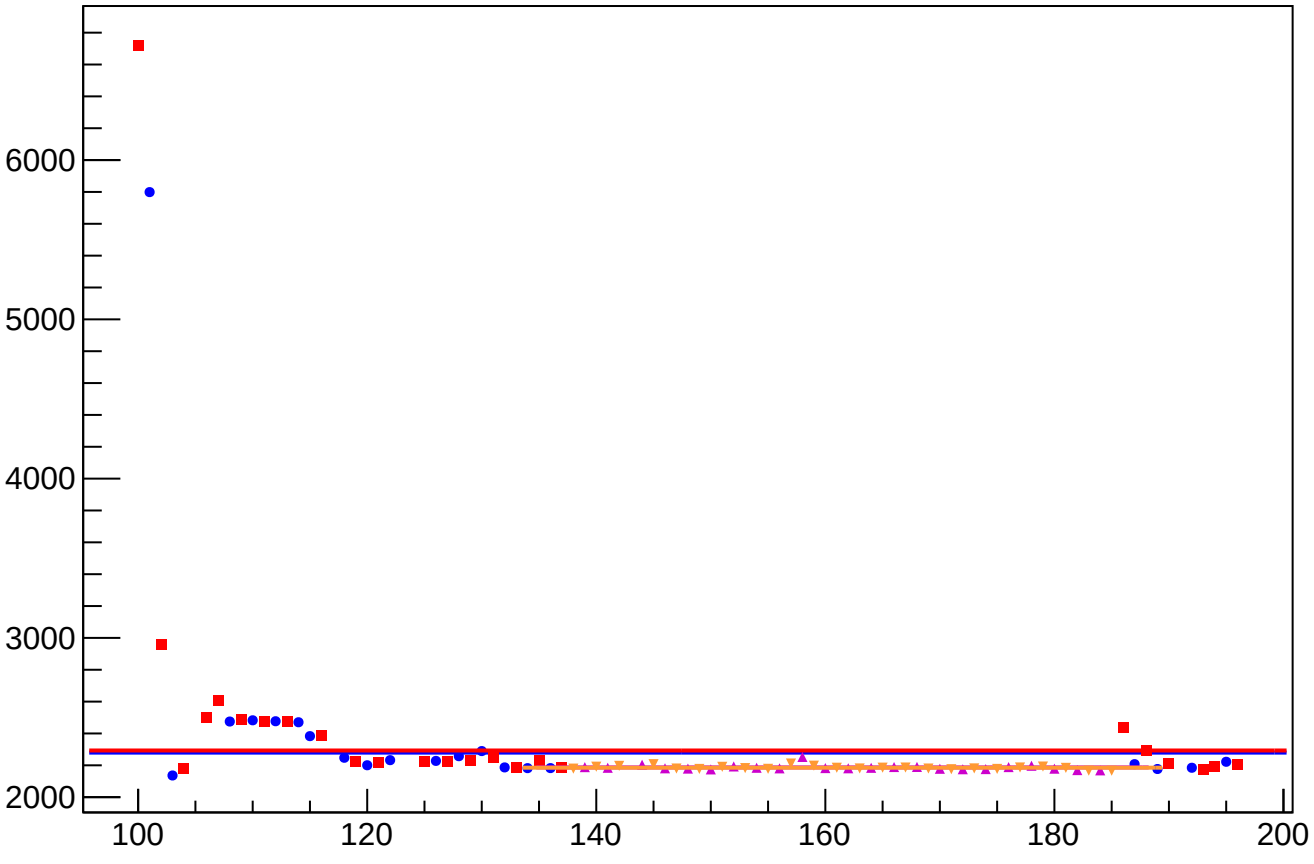
Left: 3958.157+/-359.817 $\chi^2$/NDF: 58.0/46

Right: 4160.777+/-500.188 $\chi^2$/NDF: 37.5/43

In: 4218.324+/-419.831 $\chi^2$/NDF:48.2/42

Out: 3847.996+/-406.645 $\chi^2$/NDF:47.0/47

All: 4027.253+/-292.092 $\chi^2$/NDF: 95.6/90




Right In: 2279.782+/-0.522 $\chi^2$/NDF: 522964.5/19

Left Out: 2185.133+/-0.359 $\chi^2$/NDF:815.1/23

Right Out: 2293.094+/-0.481 $\chi^2$/NDF: 170106.9/23

Left In: 2186.745+/-0.361 $\chi^2$/NDF:2063.9/22

Left: 2185.934+/-0.254 $\chi^2$/NDF: 2889.0/46

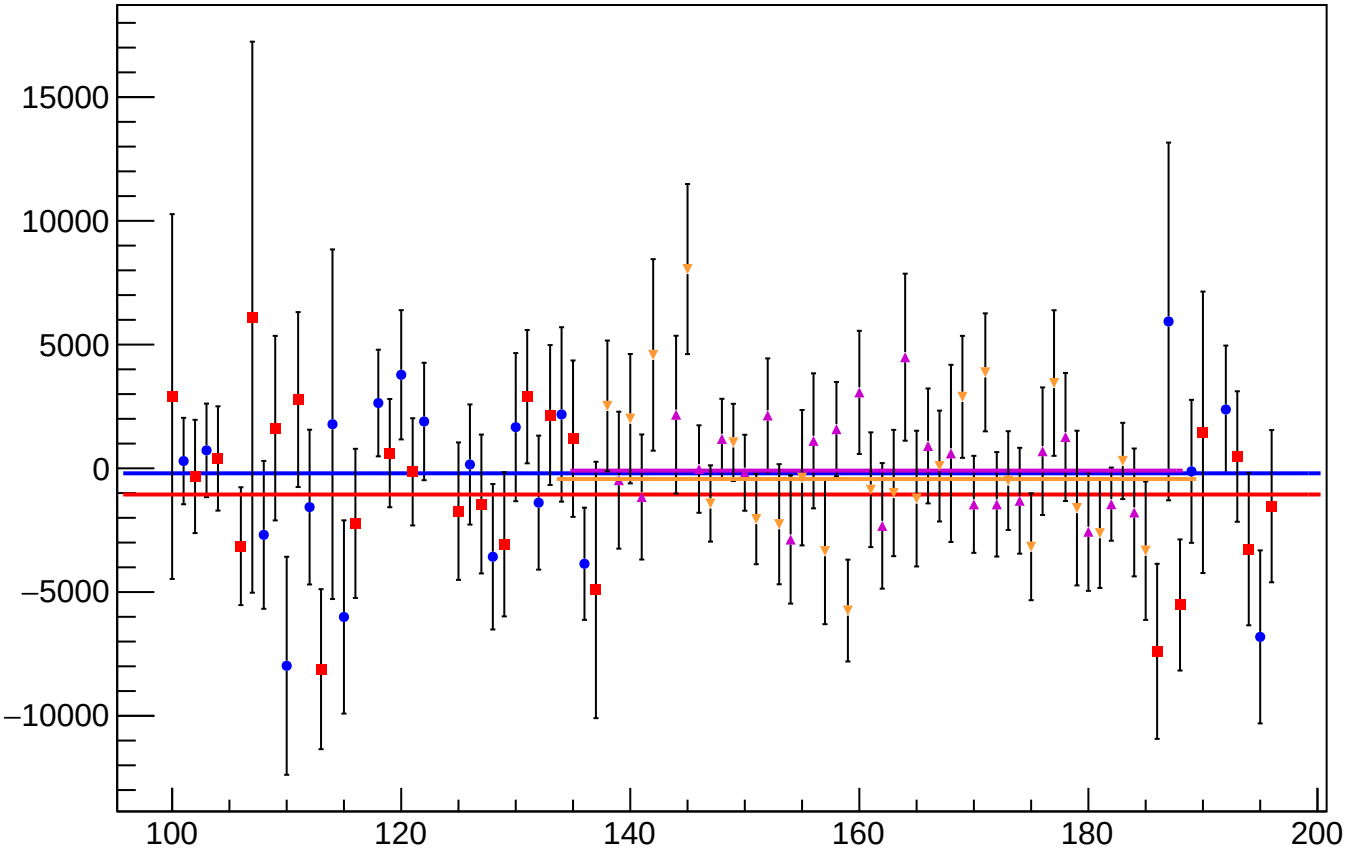
Right: 2286.974+/-0.354 $\chi^2$/NDF: 693423.3/43

In: 2216.878+/-0.297 $\chi^2$/NDF:546536.0/42

Out: 2223.685+/-0.288 $\chi^2$/NDF:203286.3/47

All: 2220.390+/-0.207 $\chi^2$/NDF: 750093.6/90

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -201.477+/-610.955 $\chi^2$/NDF: 21.7/19

Left Out: -432.320+/-462.383 $\chi^2$/NDF:31.3/23

Right Out: -1057.577+/-599.515 $\chi^2$/NDF: 21.6/23

Left In: -92.604+/-460.670 $\chi^2$/NDF:12.8/22

Left: -261.832+/-326.347 $\chi^2$/NDF: 44.3/46

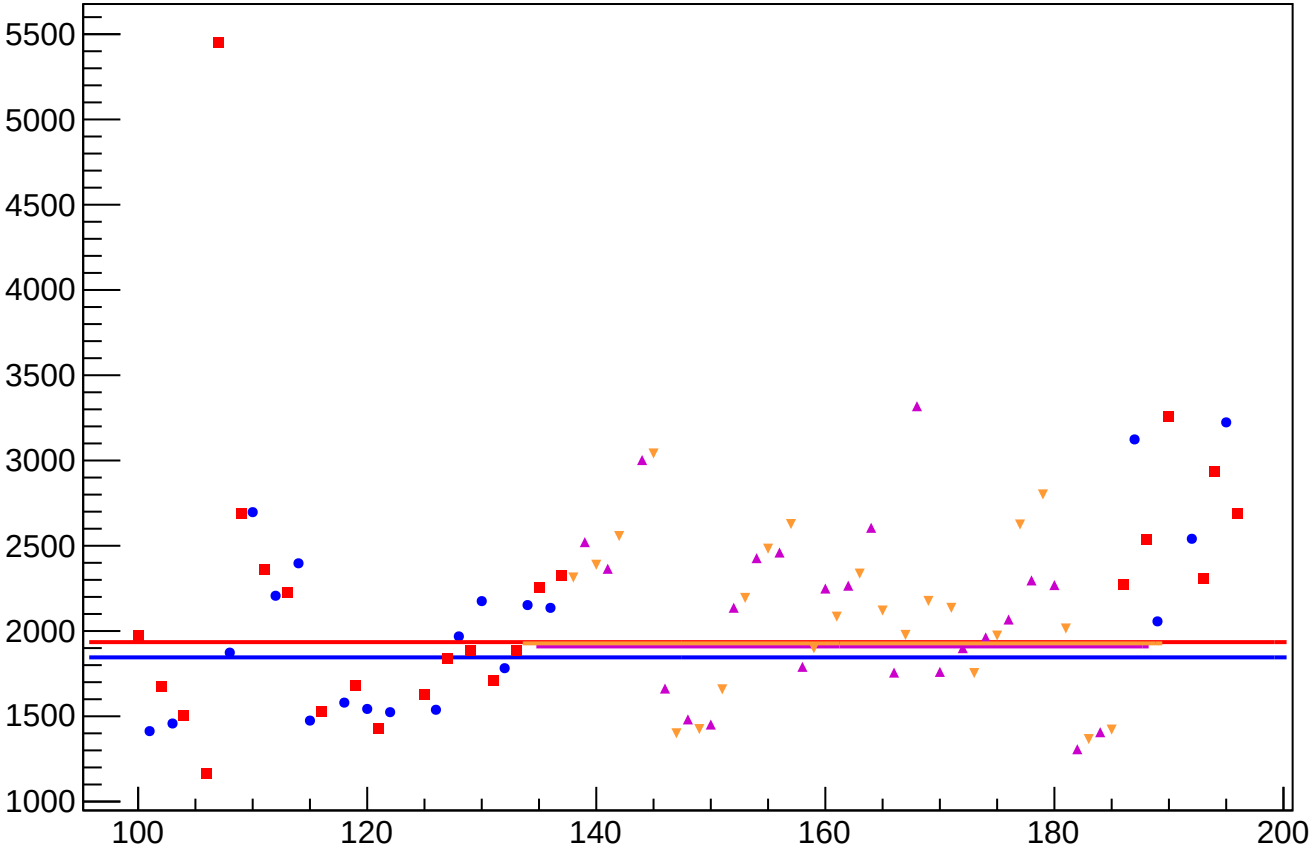
Right: -637.617+/-427.908 $\chi^2$/NDF: 44.3/43

In: -132.067+/-367.826 $\chi^2$/NDF:34.5/42

Out: -665.529+/-366.136 $\chi^2$/NDF:53.6/47

All: -400.026+/-259.493 $\chi^2$/NDF: 89.1/90

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1845.520+/-0.432 $\chi^2$/NDF: 1070825.2/19

Left Out: 1927.659+/-0.327 $\chi^2$/NDF:1798407.2/23

Right Out: 1934.913+/-0.424 $\chi^2$/NDF: 1493150.6/23

Left In: 1909.618+/-0.326 $\chi^2$/NDF:1942286.8/22

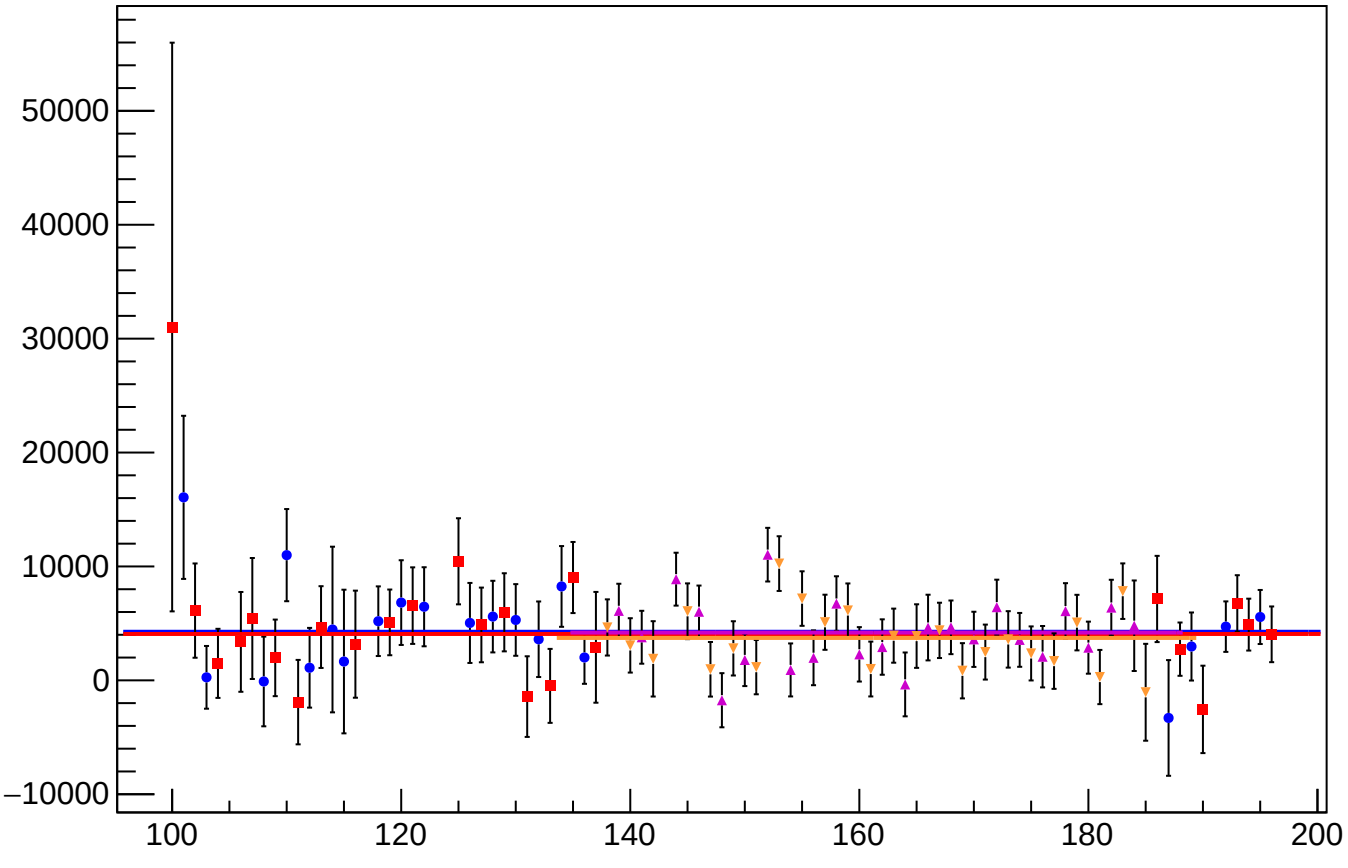
Left: 1918.605+/-0.231 $\chi^2$/NDF: 3742222.0/46

Right: 1891.061+/-0.303 $\chi^2$/NDF: 2585789.1/43

In: 1886.385+/-0.260 $\chi^2$/NDF:3027146.9/42

Out: 1930.364+/-0.259 $\chi^2$/NDF:3291741.3/47

All: 1908.476+/-0.183 $\chi^2$/NDF: 6333250.4/90




Right In: 4264.801+/-737.705 $\chi^2$/NDF: 16.1/19

Left Out: 3723.433+/-507.155 $\chi^2$/NDF:25.4/23

Right Out: 4072.261+/-680.498 $\chi^2$/NDF: 21.4/23

Left In: 4196.060+/-510.578 $\chi^2$/NDF:32.1/22

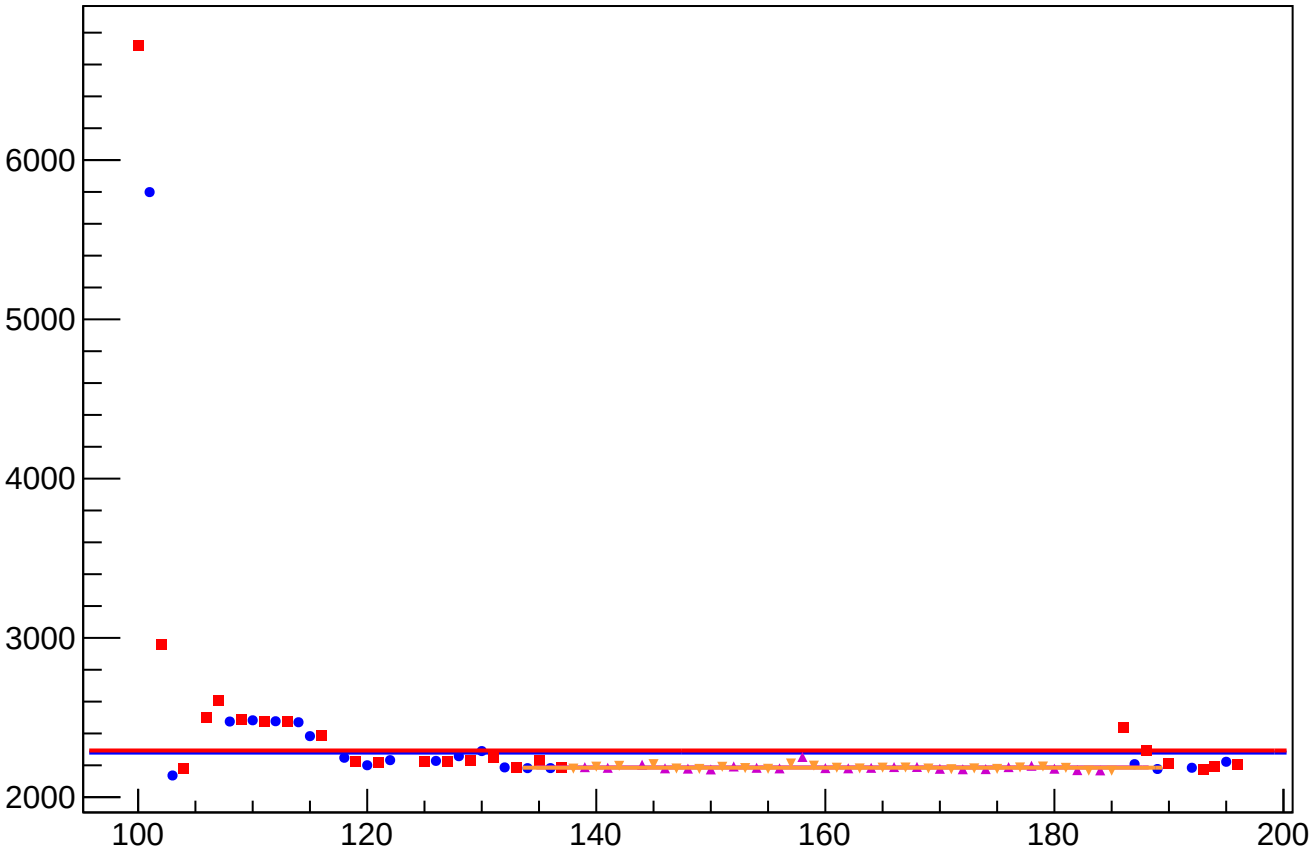
Left: 3958.157+/-359.817 $\chi^2$/NDF: 58.0/46

Right: 4160.777+/-500.188 $\chi^2$/NDF: 37.5/43

In: 4218.324+/-419.831 $\chi^2$/NDF:48.2/42

Out: 3847.996+/-406.645 $\chi^2$/NDF:47.0/47

All: 4027.253+/-292.092 $\chi^2$/NDF: 95.6/90




Right In: 2279.782+/-0.522 $\chi^2$/NDF: 522964.5/19

Left Out: 2185.133+/-0.359 $\chi^2$/NDF:815.1/23

Right Out: 2293.094+/-0.481 $\chi^2$/NDF: 170106.9/23

Left In: 2186.745+/-0.361 $\chi^2$/NDF:2063.9/22

Left: 2185.934+/-0.254 $\chi^2$/NDF: 2889.0/46

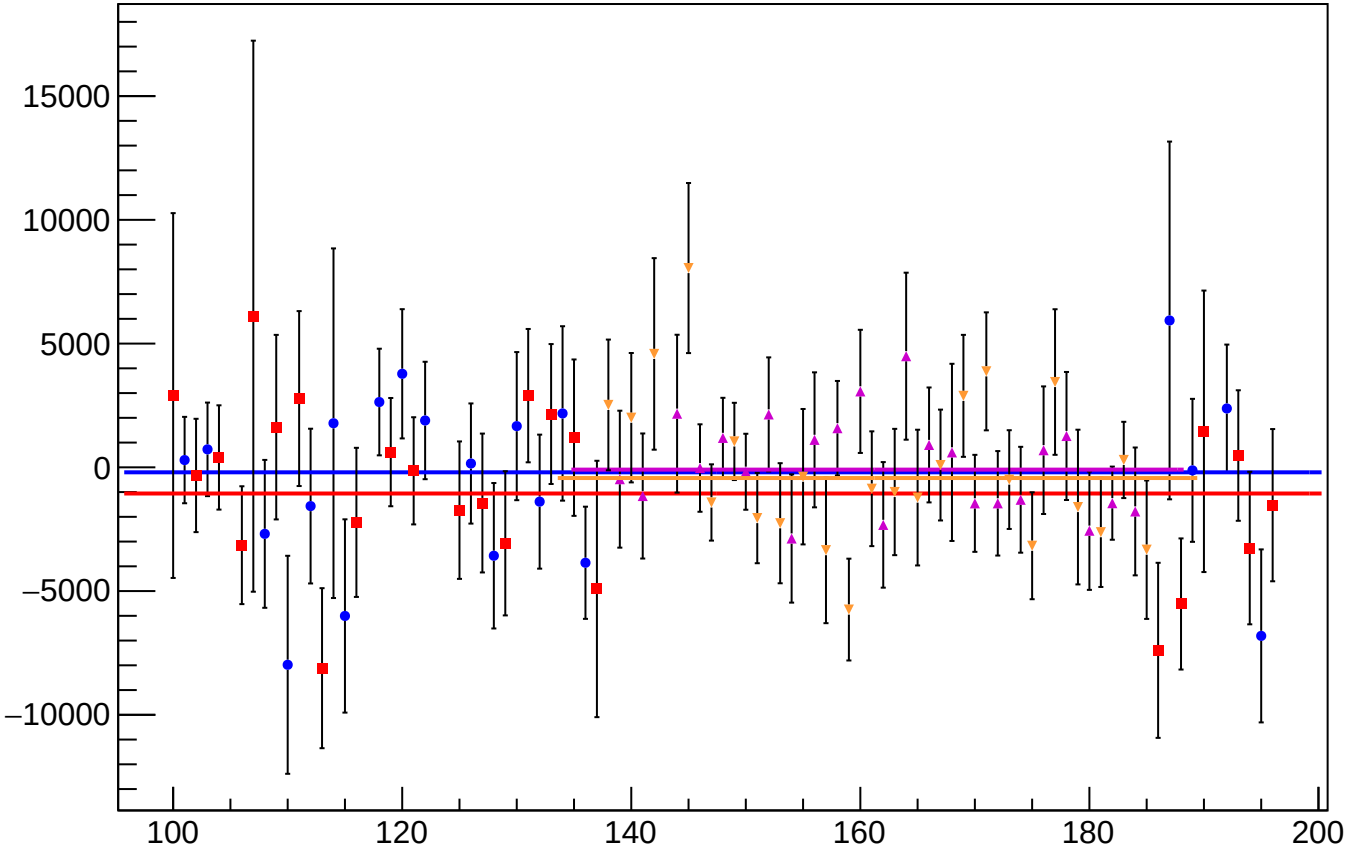
Right: 2286.974+/-0.354 $\chi^2$/NDF: 693423.3/43

In: 2216.878+/-0.297 $\chi^2$/NDF:546536.0/42

Out: 2223.685+/-0.288 $\chi^2$/NDF:203286.3/47

All: 2220.390+/-0.207 $\chi^2$/NDF: 750093.6/90

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -201.477+/-610.955 $\chi^2$/NDF: 21.7/19

Left Out: -432.320+/-462.383 $\chi^2$/NDF:31.3/23

Right Out: -1057.577+/-599.515 $\chi^2$/NDF: 21.6/23

Left In: -92.604+/-460.670 $\chi^2$/NDF:12.8/22

Left: -261.832+/-326.347 $\chi^2$/NDF: 44.3/46

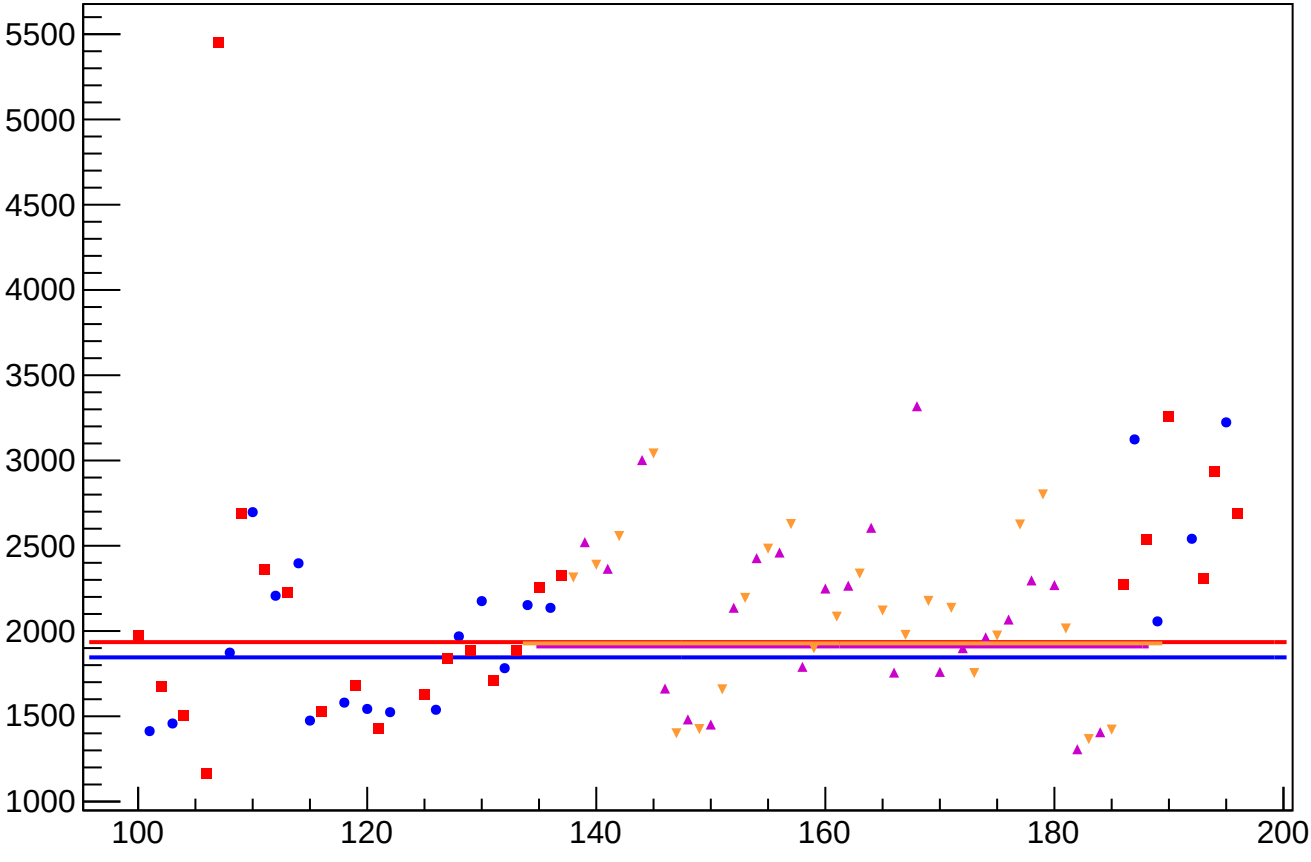
Right: -637.617+/-427.908 $\chi^2$/NDF: 44.3/43

In: -132.067+/-367.826 $\chi^2$/NDF:34.5/42

Out: -665.529+/-366.136 $\chi^2$/NDF:53.6/47

All: -400.026+/-259.493 $\chi^2$/NDF: 89.1/90

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1845.520+/-0.432 $\chi^2$/NDF: 1070825.2/19

Left Out: 1927.659+/-0.327 $\chi^2$/NDF:1798407.2/23

Right Out: 1934.913+/-0.424 $\chi^2$/NDF: 1493150.6/23

Left In: 1909.618+/-0.326 $\chi^2$/NDF:1942286.8/22

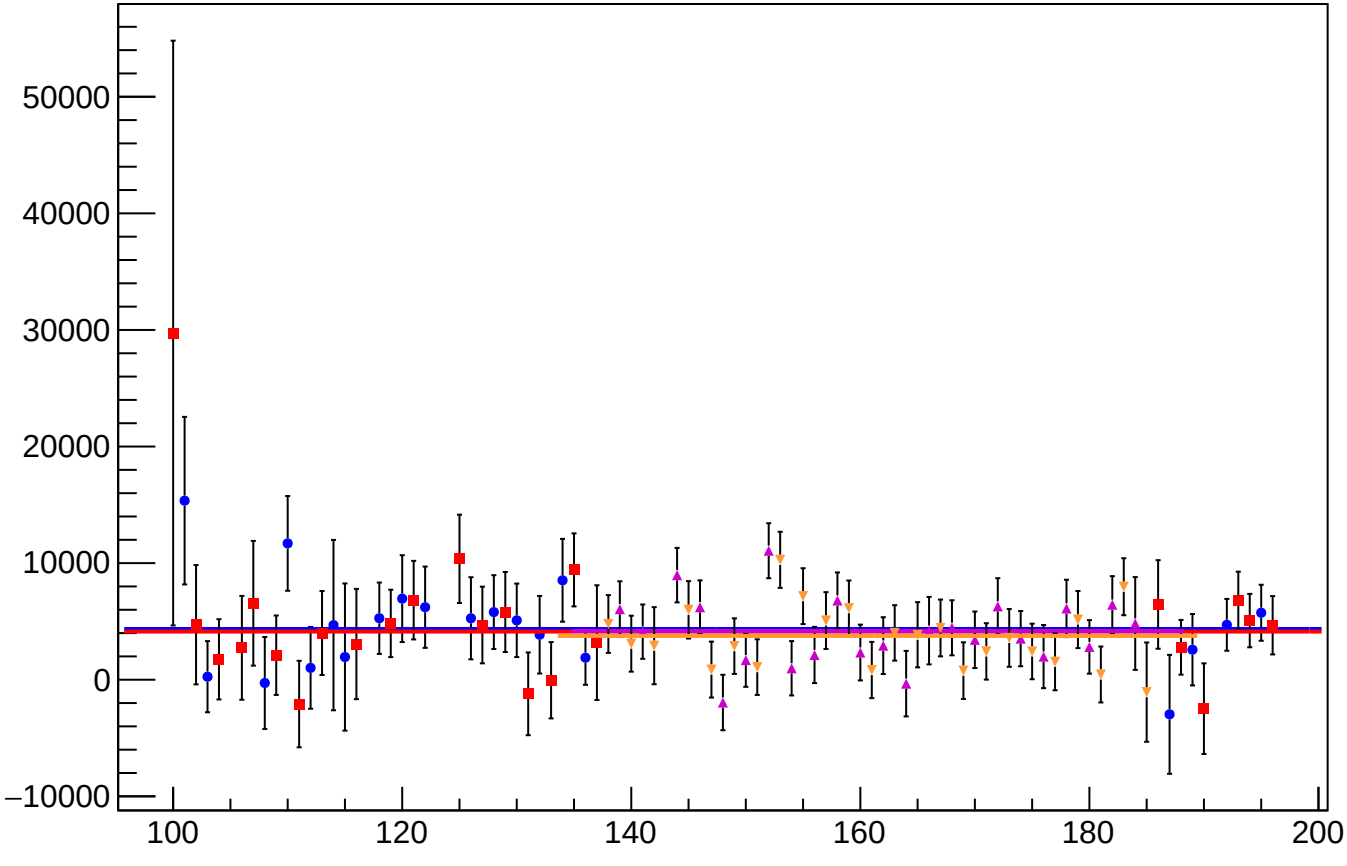
Left: 1918.605+/-0.231 $\chi^2$/NDF: 3742222.0/46

Right: 1891.061+/-0.303 $\chi^2$/NDF: 2585789.1/43

In: 1886.385+/-0.260 $\chi^2$/NDF:3027146.9/42

Out: 1930.364+/-0.259 $\chi^2$/NDF:3291741.3/47

All: 1908.476+/-0.183 $\chi^2$/NDF: 6333250.4/90




Right In: 4352.290+/-746.533 $\chi^2$/NDF: 16.3/19

Left Out: 3754.065+/-508.568 $\chi^2$/NDF:25.7/23

Right Out: 4132.701+/-691.607 $\chi^2$/NDF: 20.5/23

Left In: 4184.214+/-511.864 $\chi^2$/NDF:32.7/22

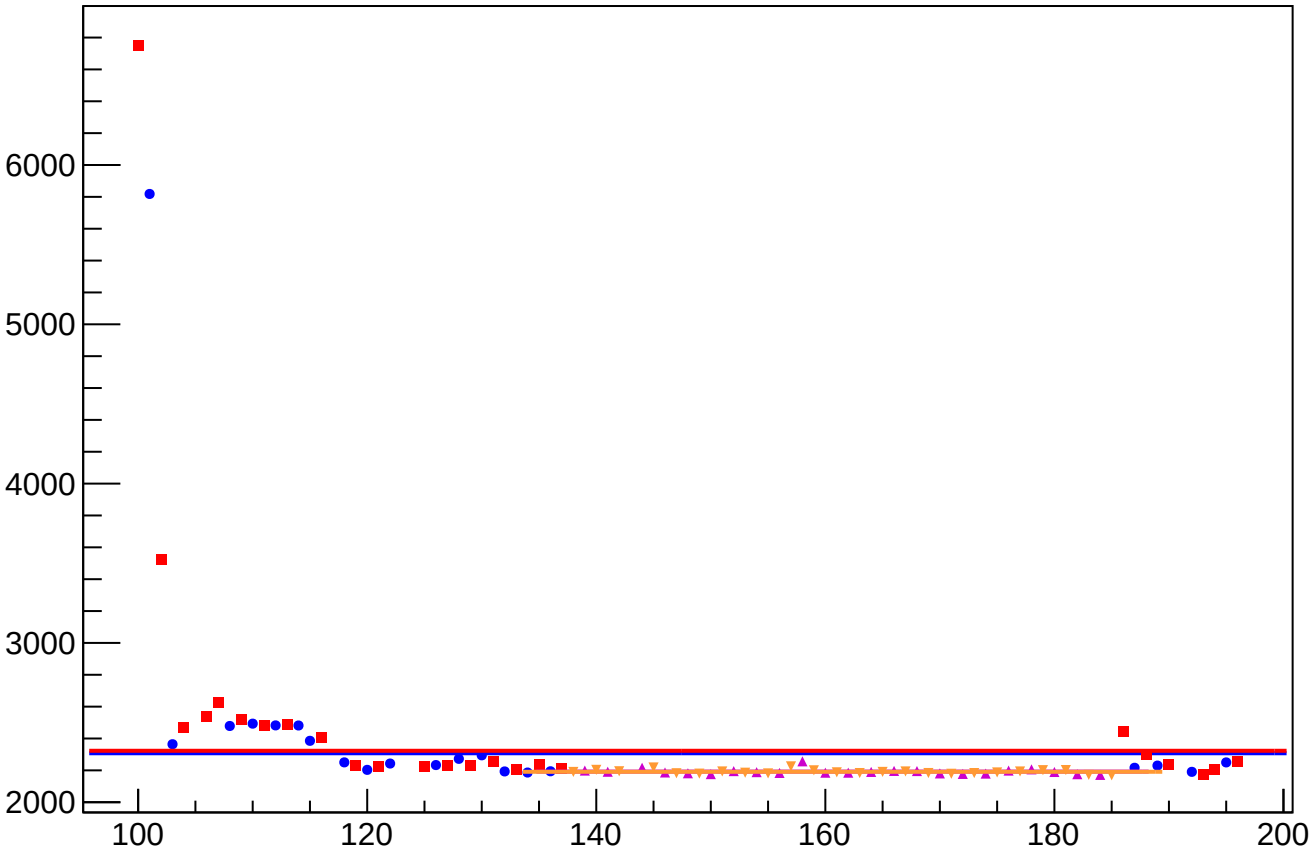
Left: 3967.750+/-360.772 $\chi^2$/NDF: 58.7/46

Right: 4234.121+/-507.348 $\chi^2$/NDF: 36.8/43

In: 4237.962+/-422.160 $\chi^2$/NDF:49.0/42

Out: 3886.950+/-409.719 $\chi^2$/NDF:46.3/47

All: 4057.208+/-294.015 $\chi^2$/NDF: 95.7/90




Right In: 2307.332+/-0.528 $\chi^2$/NDF: 514659.7/19

Left Out: 2191.147+/-0.360 $\chi^2$/NDF:1228.9/23

Right Out: 2322.953+/-0.489 $\chi^2$/NDF: 232604.7/23

Left In: 2192.201+/-0.362 $\chi^2$/NDF:2281.8/22

Left: 2191.670+/-0.255 $\chi^2$/NDF: 3515.0/46

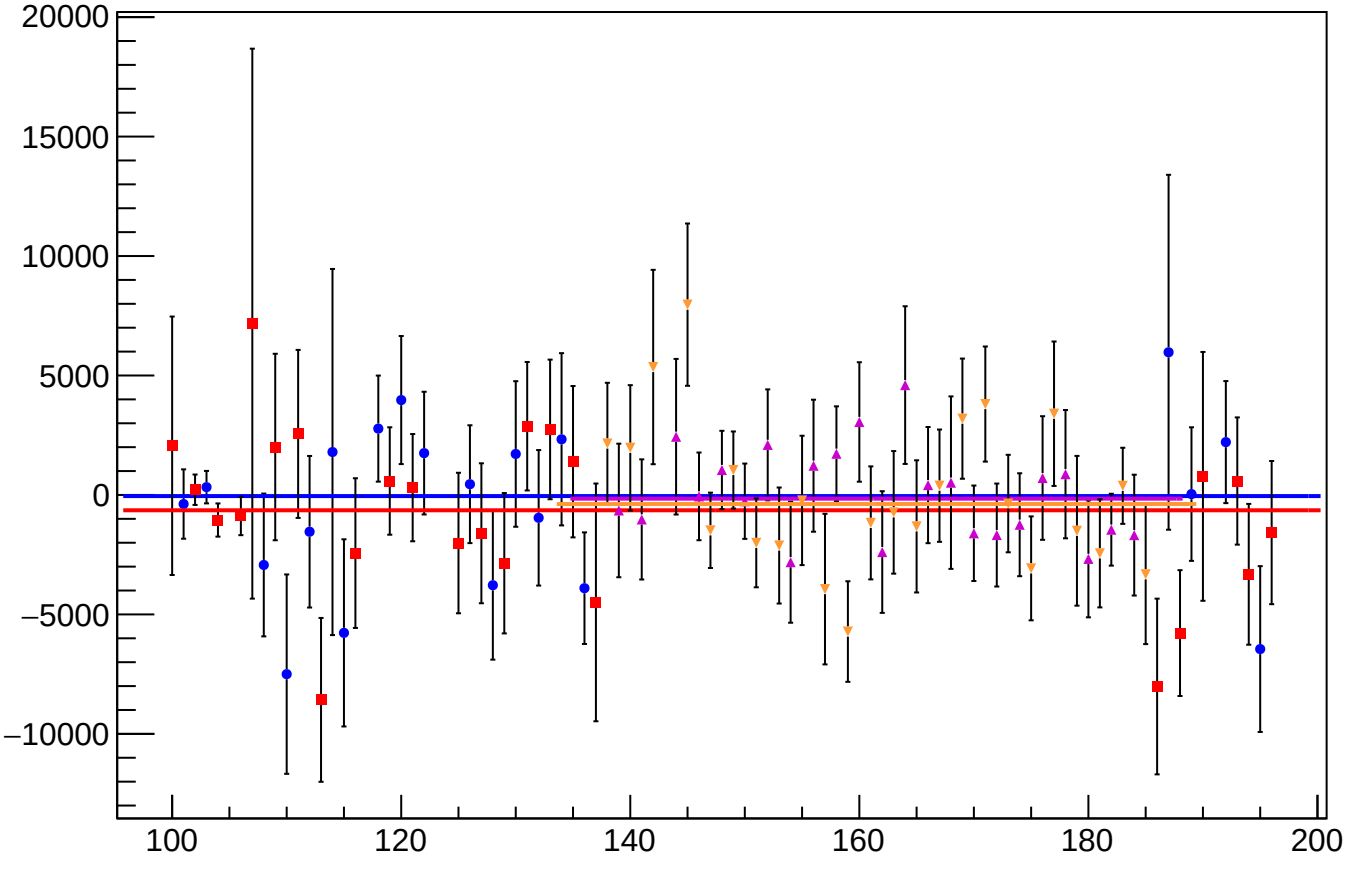
Right: 2315.738+/-0.359 $\chi^2$/NDF: 747735.7/43

In: 2229.018+/-0.299 $\chi^2$/NDF:549298.1/42

Out: 2237.405+/-0.290 $\chi^2$/NDF:280981.5/47

All: 2233.337+/-0.208 $\chi^2$/NDF: 830686.1/90

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -46.857+/-464.842 $\chi^2$/NDF: 21.2/19

Left Out: -380.488+/-471.481 $\chi^2$/NDF:30.8/23

Right Out: -642.017+/-348.585 $\chi^2$/NDF: 24.4/23

Left In: -154.512+/-467.999 $\chi^2$/NDF:12.8/22

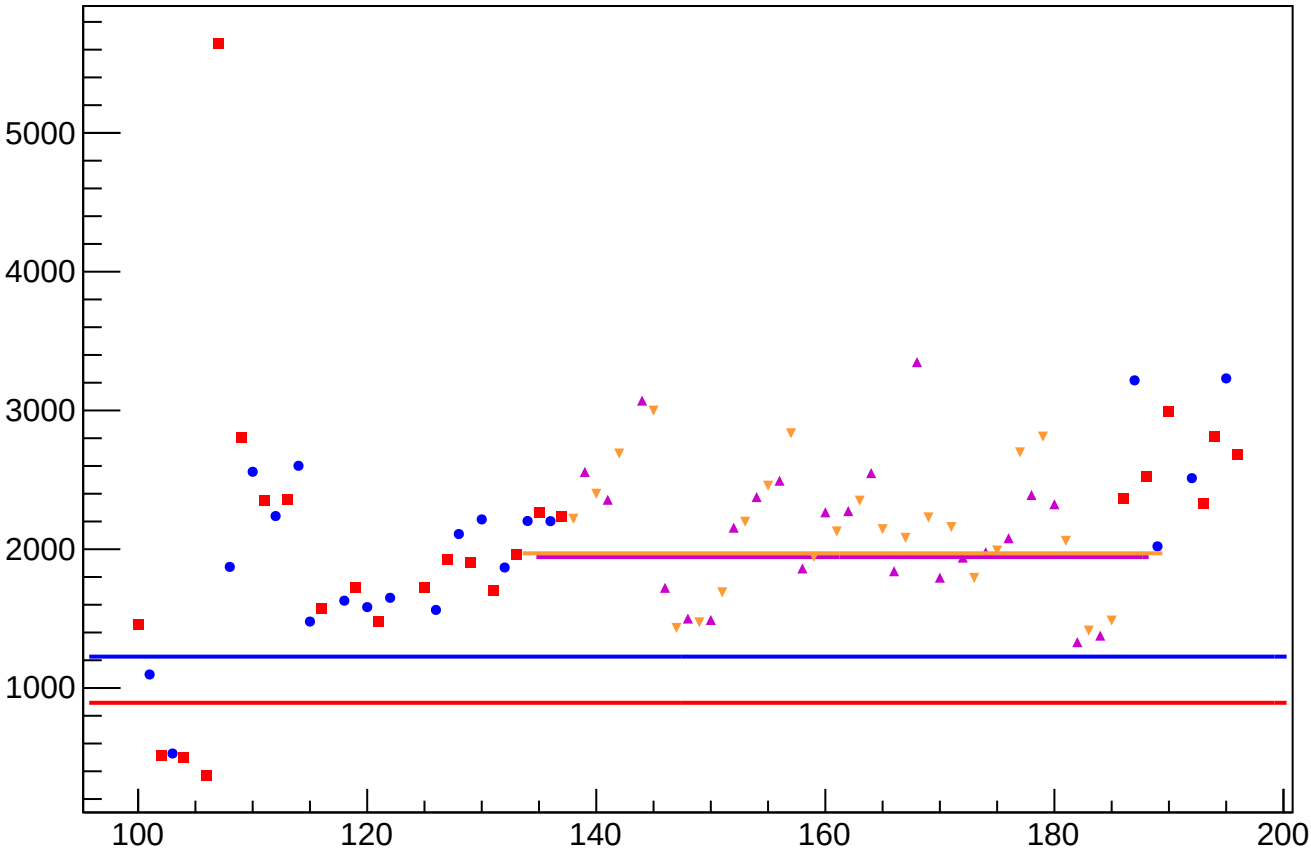
Left: -266.662+/-332.150 $\chi^2$/NDF: 43.7/46

Right: -427.796+/-278.882 $\chi^2$/NDF: 46.6/43

In: -100.320+/-329.804 $\chi^2$/NDF:34.0/42

Out: -549.585+/-280.296 $\chi^2$/NDF:55.4/47

All: -361.170+/-213.580 $\chi^2$/NDF: 90.5/90




Right In: 1226.241+/-0.329 $\chi^2$/NDF: 5344796.3/19

Left Out: 1970.655+/-0.333 $\chi^2$/NDF:1696659.6/23

Right Out: 893.533+/-0.246 $\chi^2$/NDF: 9436220.3/23

Left In: 1943.628+/-0.331 $\chi^2$/NDF:1882933.7/22

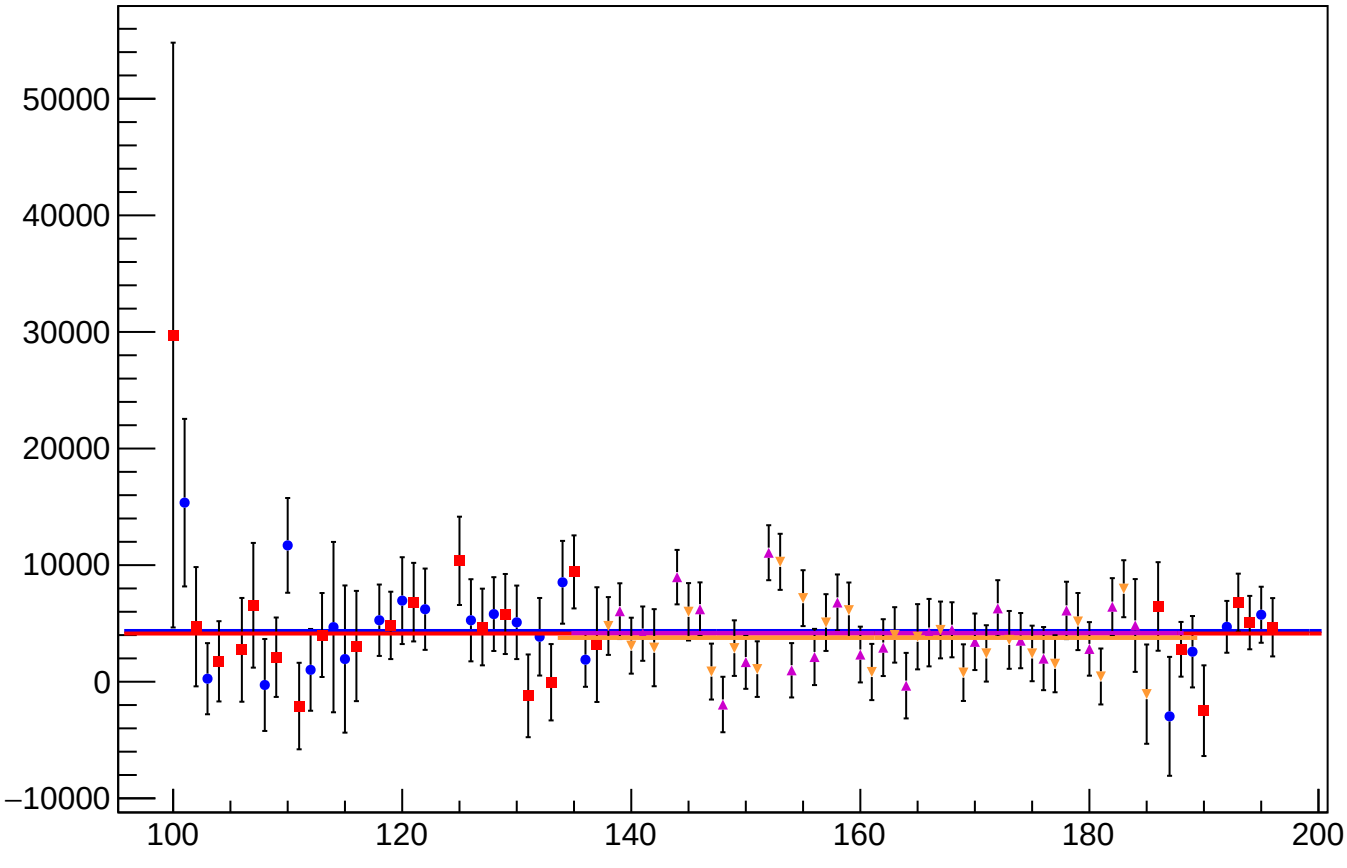
Left: 1957.041+/-0.235 $\chi^2$/NDF: 3582903.8/46

Right: 1013.288+/-0.197 $\chi^2$/NDF: 15436807.5/43

In: 1582.507+/-0.233 $\chi^2$/NDF:9593356.4/42

Out: 1274.222+/-0.198 $\chi^2$/NDF:17881987.8/47

All: 1403.511+/-0.151 $\chi^2$/NDF: 28489983.7/9




Right In: 4352.287+/-746.533 $\chi^2$/NDF: 16.3/19

Left Out: 3754.064+/-508.568 $\chi^2$/NDF:25.7/23

Right Out: 4132.696+/-691.606 $\chi^2$/NDF: 20.5/23

Left In: 4184.214+/-511.864 $\chi^2$/NDF:32.7/22

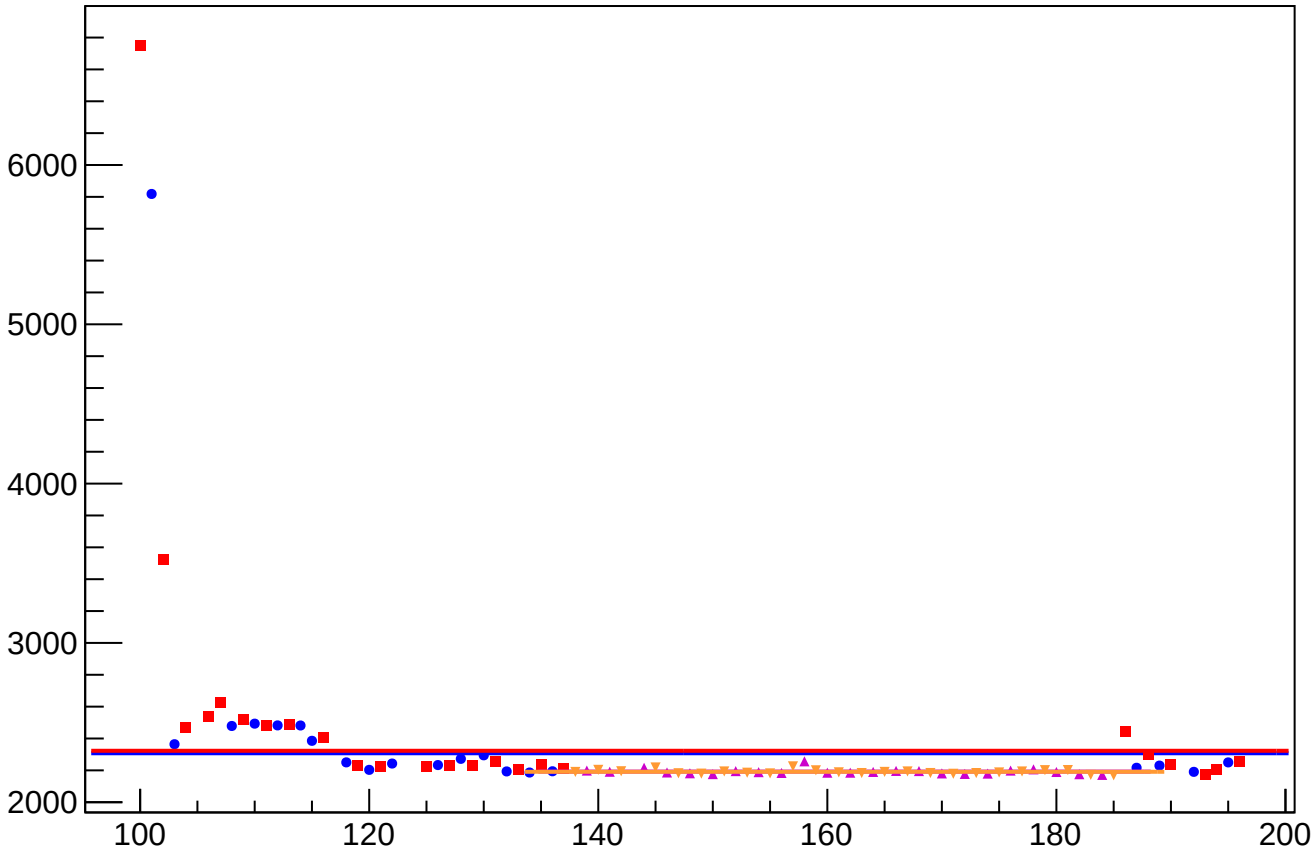
Left: 3967.750+/-360.772 $\chi^2$/NDF: 58.7/46

Right: 4234.117+/-507.347 $\chi^2$/NDF: 36.8/43

In: 4237.961+/-422.160 $\chi^2$/NDF:49.0/42

Out: 3886.948+/-409.719 $\chi^2$/NDF:46.3/47

All: 4057.206+/-294.015 $\chi^2$/NDF: 95.7/90




Right In: 2307.332+/-0.528 $\chi^2$/NDF: 514659.6/19

Left Out: 2191.147+/-0.360 $\chi^2$/NDF:1228.9/23

Right Out: 2322.953+/-0.489 $\chi^2$/NDF: 232603.5/23

Left In: 2192.201+/-0.362 $\chi^2$/NDF:2281.8/22

Left: 2191.670+/-0.255 $\chi^2$/NDF: 3515.0/46

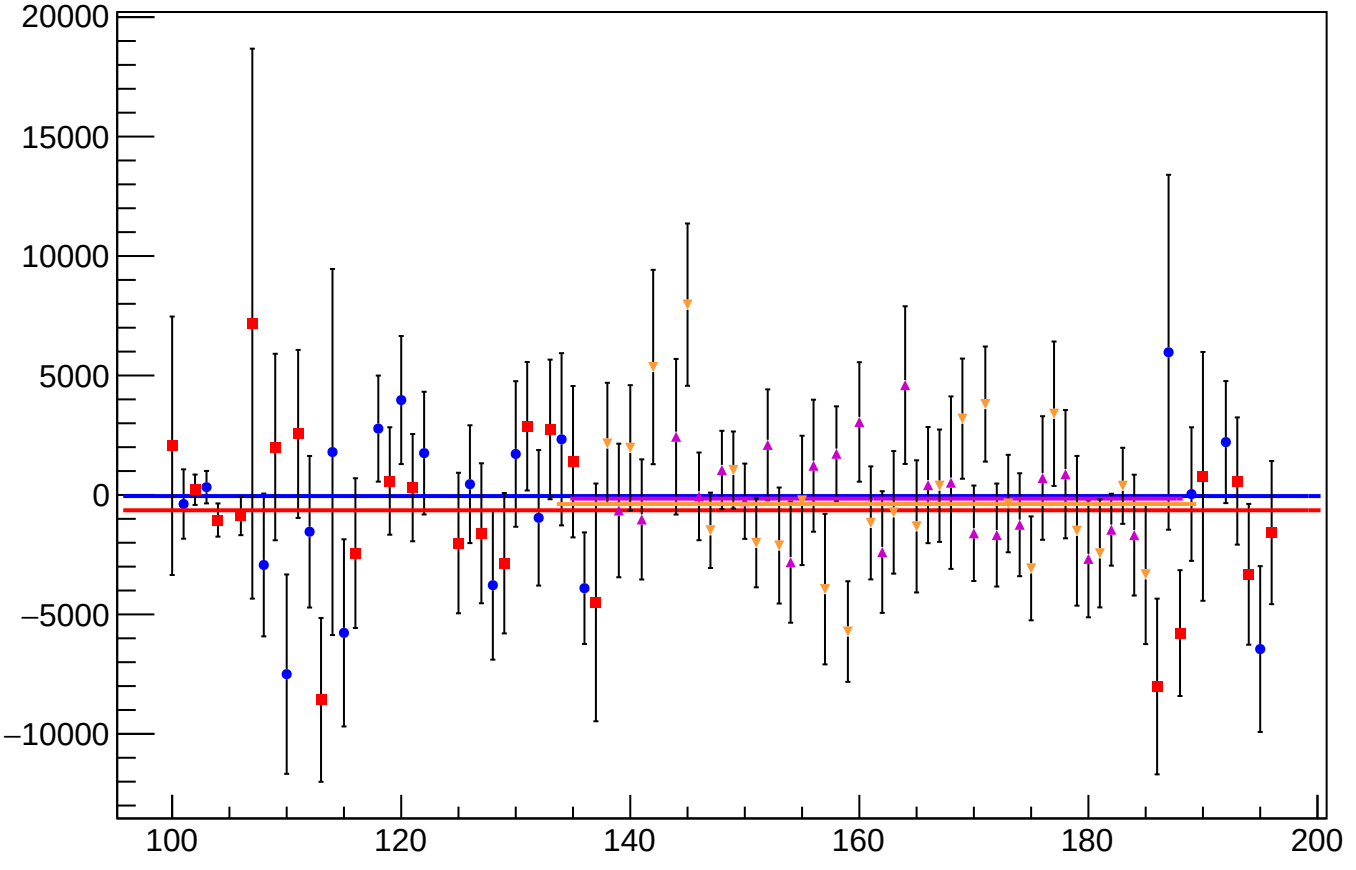
Right: 2315.738+/-0.359 $\chi^2$/NDF: 747734.4/43

In: 2229.018+/-0.299 $\chi^2$/NDF:549297.8/42

Out: 2237.405+/-0.290 $\chi^2$/NDF:280980.0/47

All: 2233.337+/-0.208 $\chi^2$/NDF: 830684.4/90

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -46.863+/-464.845 $\chi^2$/NDF: 21.2/19

Left Out: -380.492+/-471.482 $\chi^2$/NDF:30.8/23

Right Out: -642.025+/-348.590 $\chi^2$/NDF: 24.4/23

Left In: -154.512+/-468.000 $\chi^2$/NDF:12.8/22

Left: -266.664+/-332.150 $\chi^2$/NDF: 43.7/46

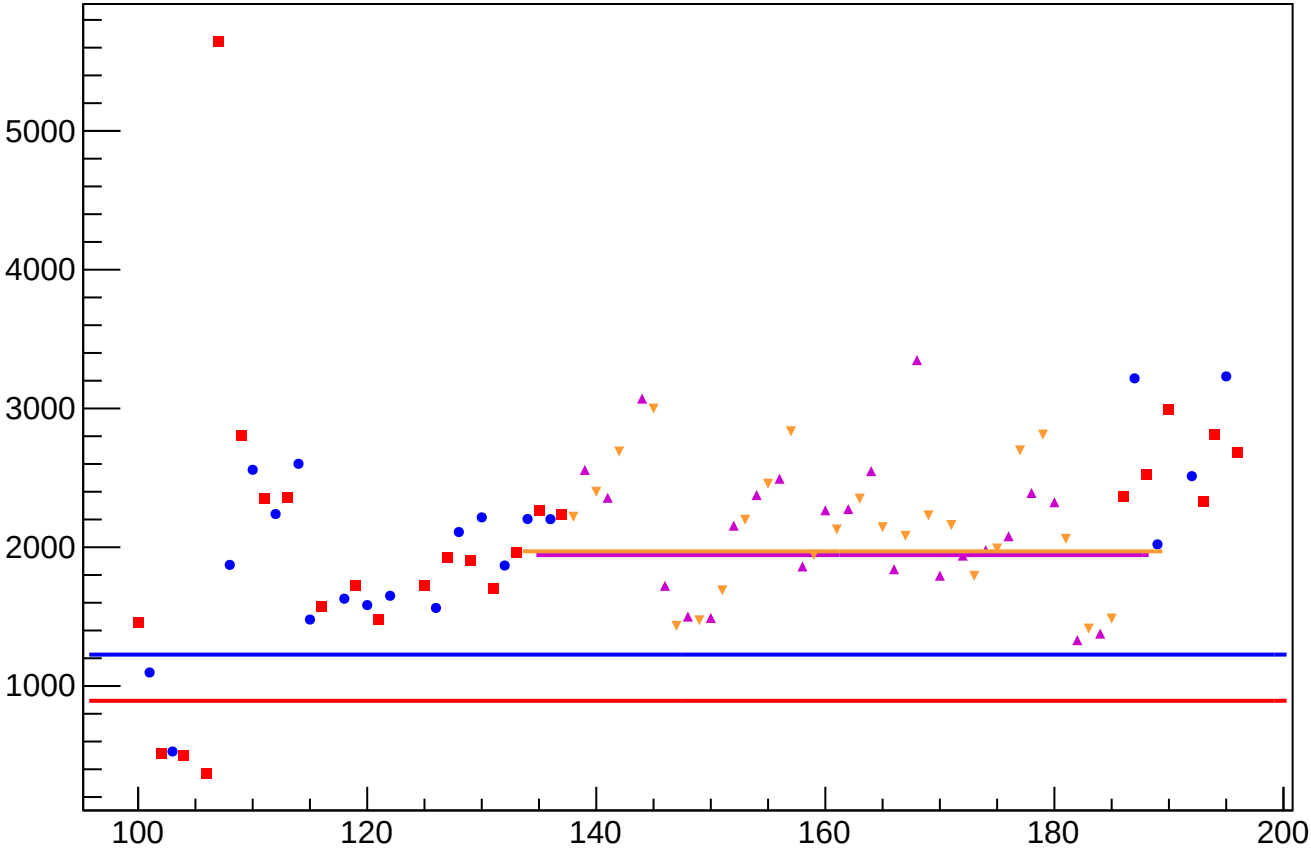
Right: -427.801+/-278.884 $\chi^2$/NDF: 46.6/43

In: -100.323+/-329.805 $\chi^2$/NDF:34.0/42

Out: -549.590+/-280.298 $\chi^2$/NDF:55.4/47

All: -361.174+/-213.582 $\chi^2$/NDF: 90.5/90

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1226.251+/-0.329 $\chi^2$/NDF: 5344701.5/19

Left Out: 1970.659+/-0.333 $\chi^2$/NDF:1696658.8/23

Right Out: 893.551+/-0.246 $\chi^2$/NDF: 9436035.8/23

Left In: 1943.631+/-0.331 $\chi^2$/NDF:1882931.8/22

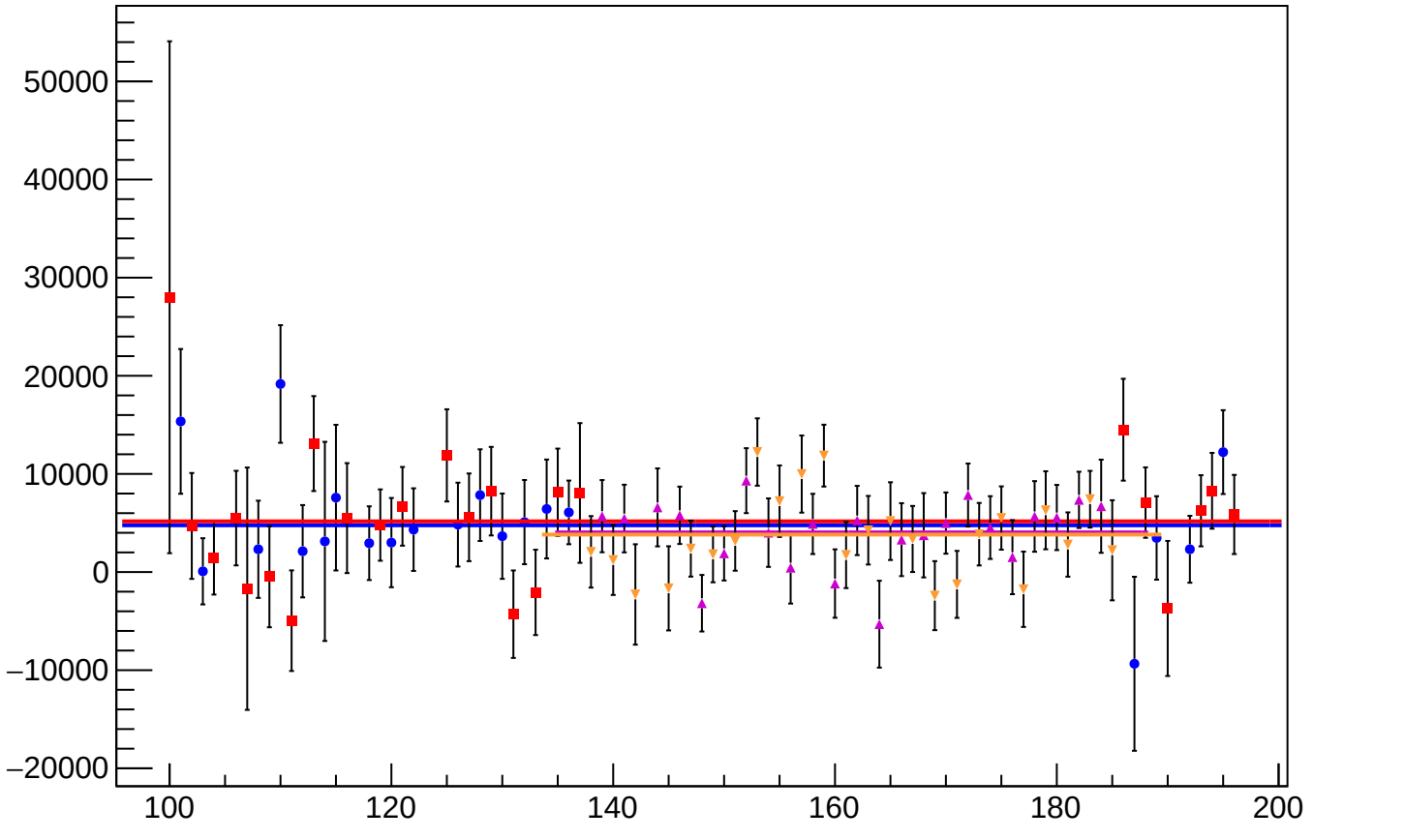
Left: 1957.045+/-0.235 $\chi^2$/NDF: 3582901.0/46

Right: 1013.304+/-0.197 $\chi^2$/NDF: 15436490.7/43

In: 1582.514+/-0.233 $\chi^2$/NDF:9593200.6/42

Out: 1274.239+/-0.198 $\chi^2$/NDF:17881558.3/47

All: 1403.526+/-0.151 $\chi^2$/NDF: 28489324.9/9




Right In: 4764.863+/-1012.728 $\chi^2$/NDF: 17.9/19

Left Out: 3817.837+/-708.312 $\chi^2$/NDF:30.9/23

Right Out: 5168.424+/-951.775 $\chi^2$/NDF: 26.4/23

Left In: 4042.422+/-709.573 $\chi^2$/NDF:22.5/22

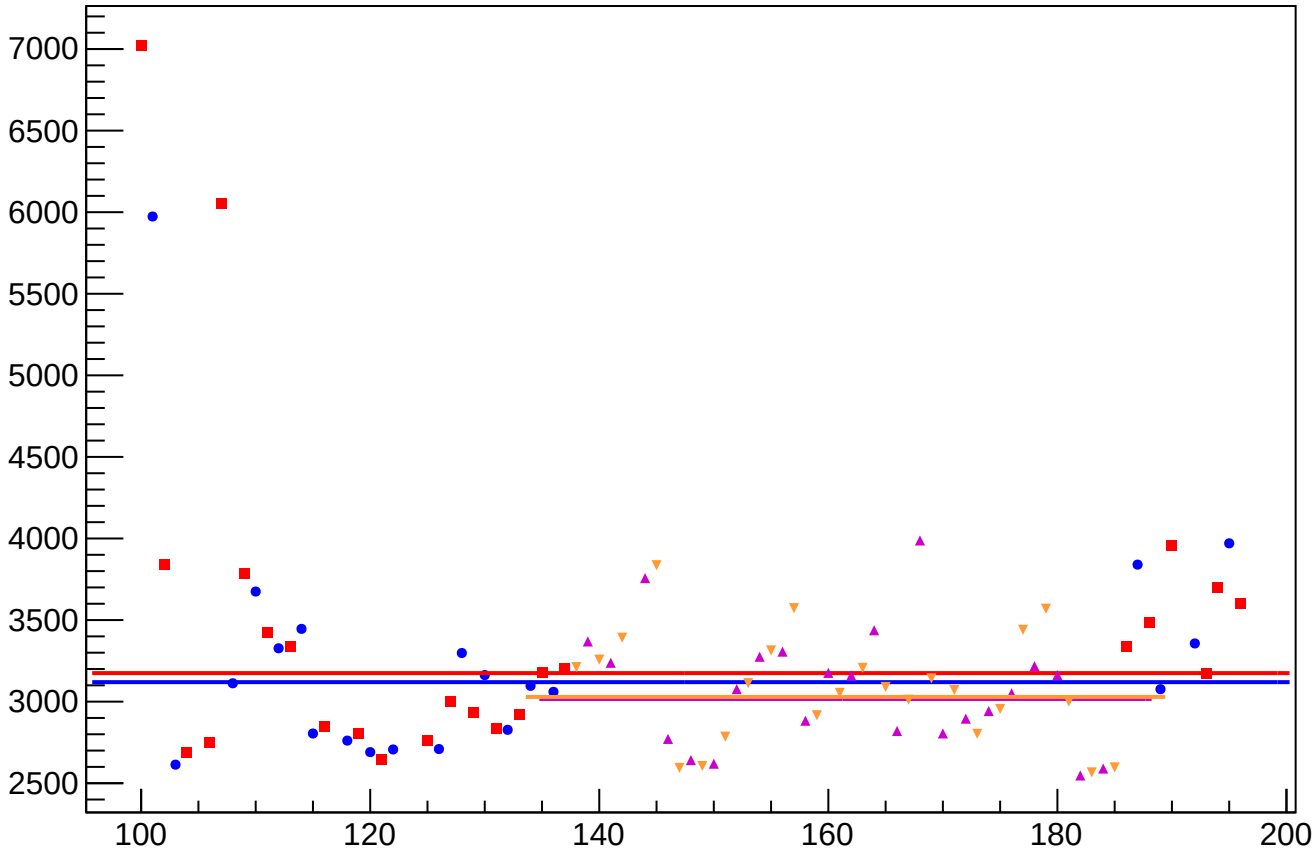
Left: 3929.930+/-501.297 $\chi^2$/NDF: 53.4/46

Right: 4979.153+/-693.554 $\chi^2$/NDF: 44.3/43

In: 4280.302+/-581.126 $\chi^2$/NDF:40.7/42

Out: 4299.228+/-568.227 $\chi^2$/NDF:58.6/47

All: 4289.977+/-406.281 $\chi^2$/NDF: 99.3/90




Right In: 3119.464+/-0.716 $\chi^2$/NDF: 560415.5/19

Left Out: 3028.983+/-0.501 $\chi^2$/NDF:397111.2/23

Right Out: 3174.880+/-0.673 $\chi^2$/NDF: 474555.3/23

Left In: 3016.252+/-0.502 $\chi^2$/NDF:439897.8/22

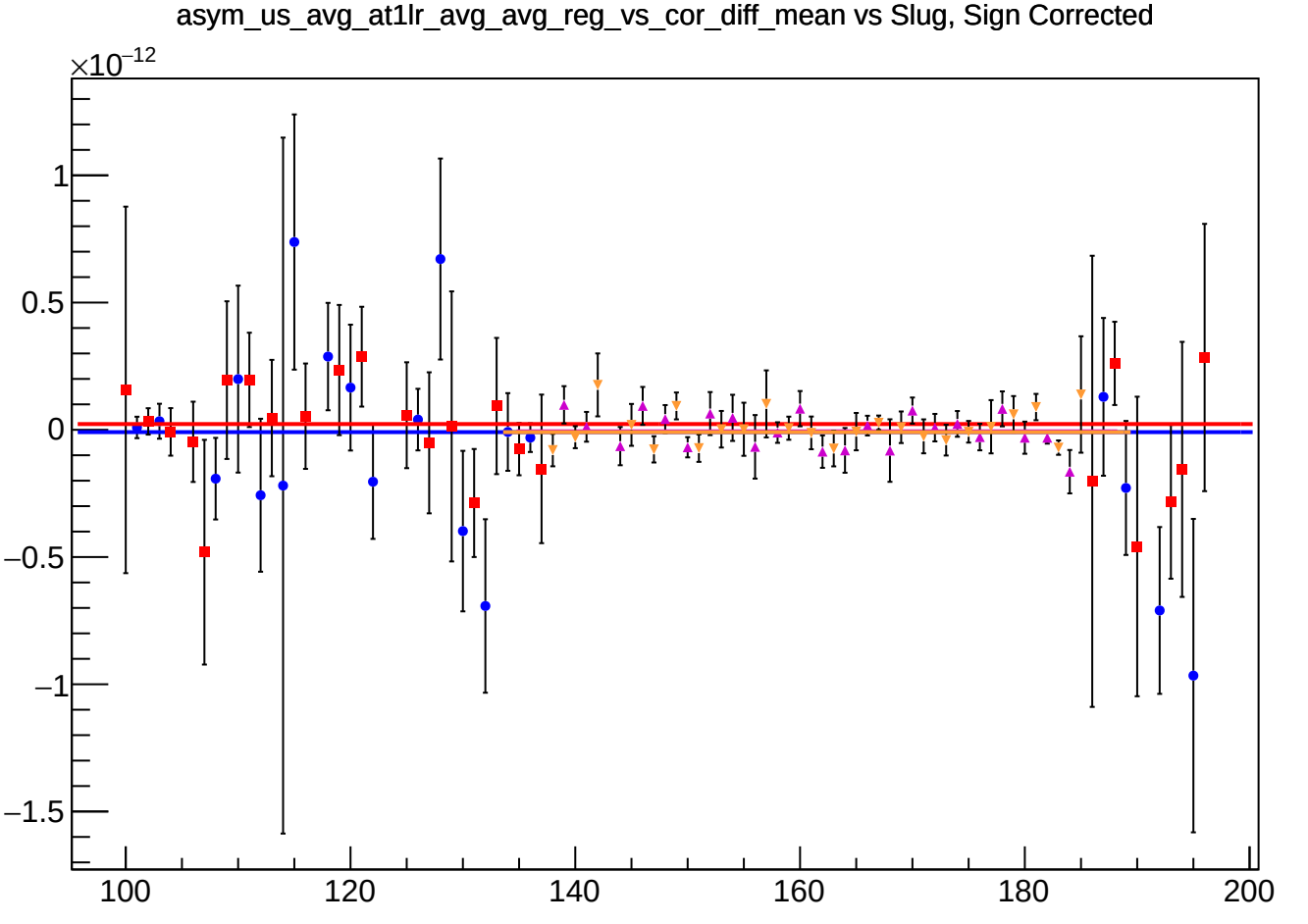
Left: 3022.629+/-0.354 $\chi^2$/NDF: 837331.5/46

Right: 3148.890+/-0.490 $\chi^2$/NDF: 1038150.7/43

In: 3050.237+/-0.411 $\chi^2$/NDF:1014246.6/42

Out: 3080.986+/-0.402 $\chi^2$/NDF:901911.4/47

All: 3065.956+/-0.287 $\chi^2$/NDF: 1919020.6/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 13.3/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.3/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 47.5/46

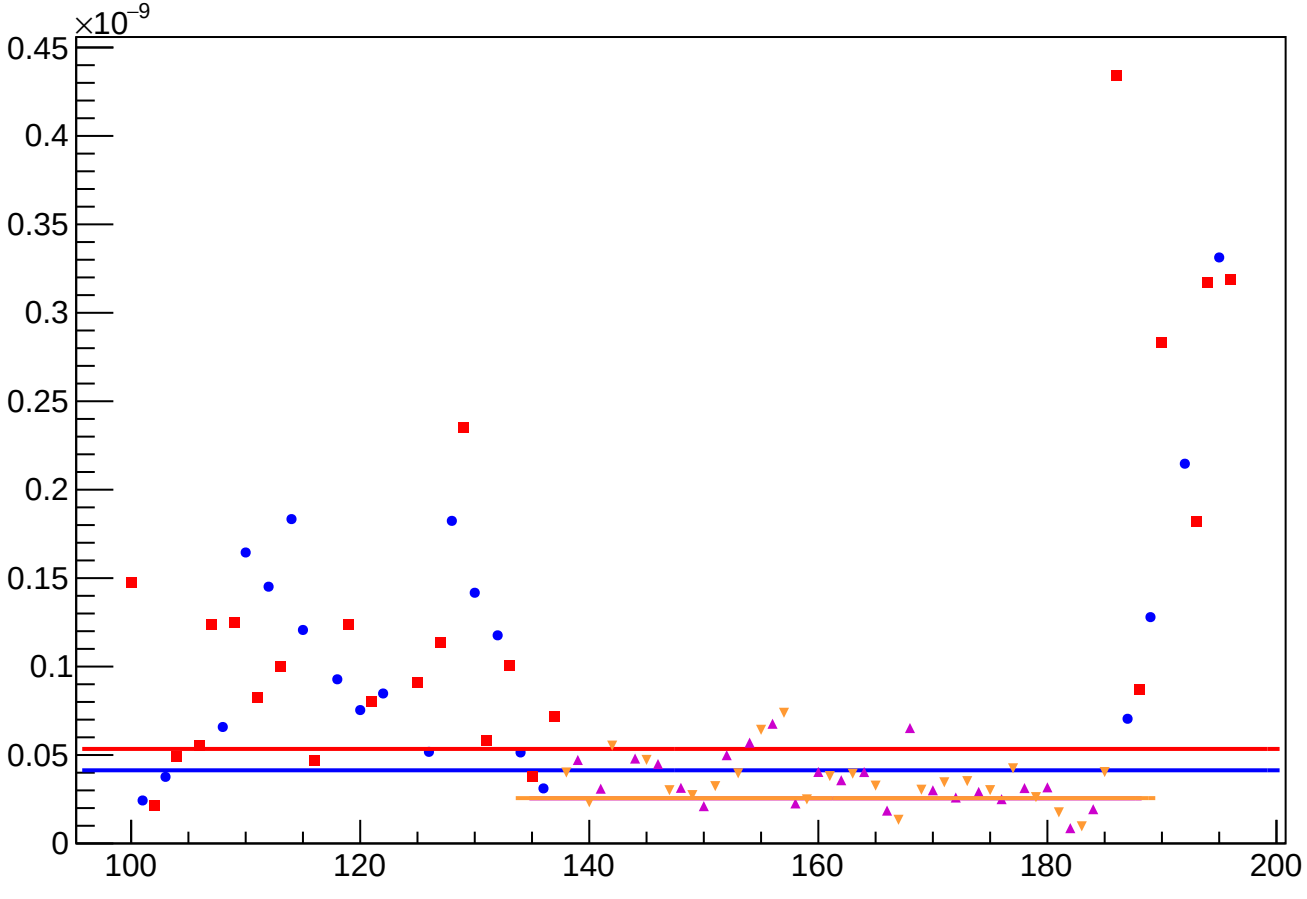
Right: 0.000+/-0.000 $\chi^2$/NDF: 38.9/43

In: -0.000+/-0.000 $\chi^2$/NDF:48.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:38.3/47

All: -0.000+/-0.000 $\chi^2$/NDF: 86.6/90

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3030782.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2439953.3/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3963051.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2808054.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5248211.8/46

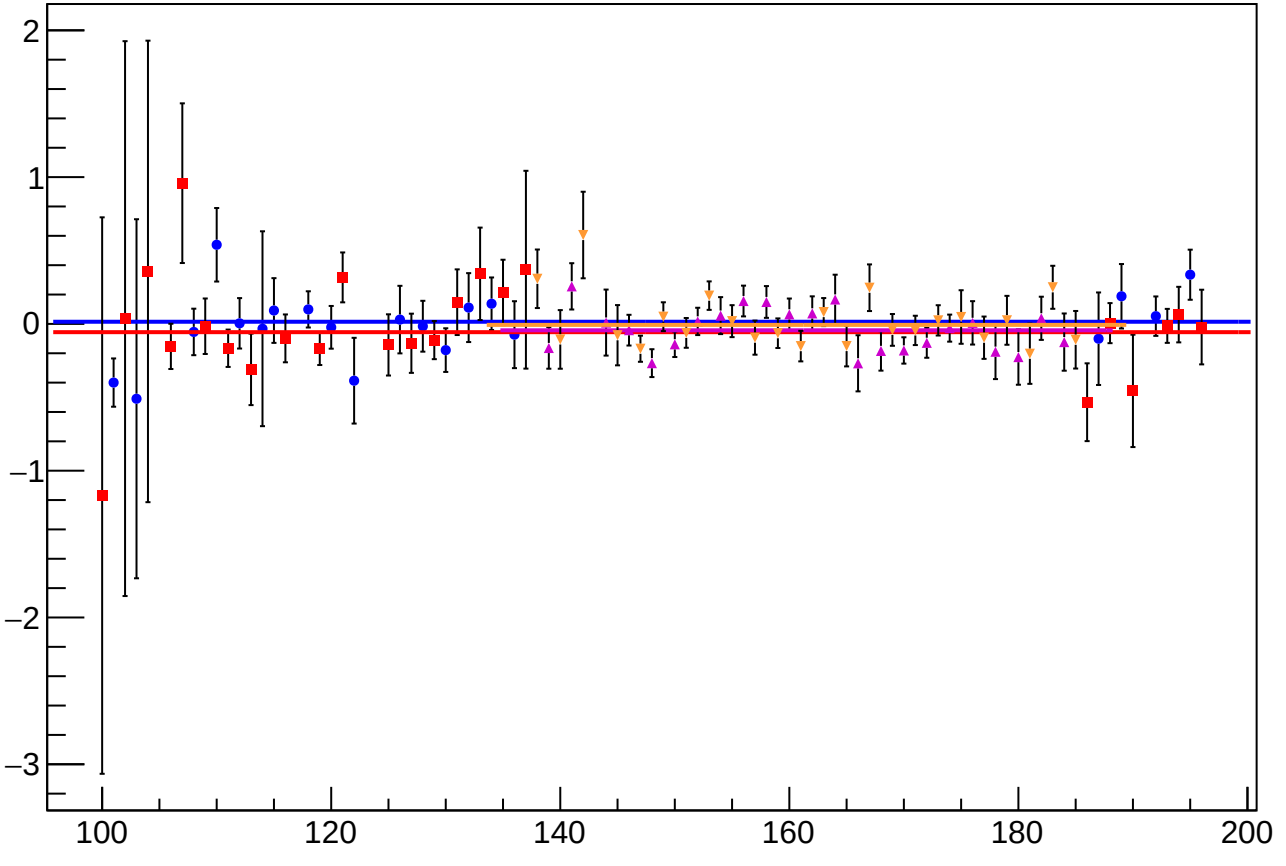
Right: 0.000+/-0.000 $\chi^2$/NDF: 7152950.5/43

In: 0.000+/-0.000 $\chi^2$/NDF:6434922.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7654115.6/47

All: 0.000+/-0.000 $\chi^2$/NDF: 14092580.9/90

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.042 $\chi^2$/NDF: 20.5/19

Left Out: -0.007+/-0.025 $\chi^2$/NDF:27.7/23

Right Out: -0.056+/-0.039 $\chi^2$/NDF: 21.9/23

Left In: -0.044+/-0.025 $\chi^2$/NDF:30.3/22

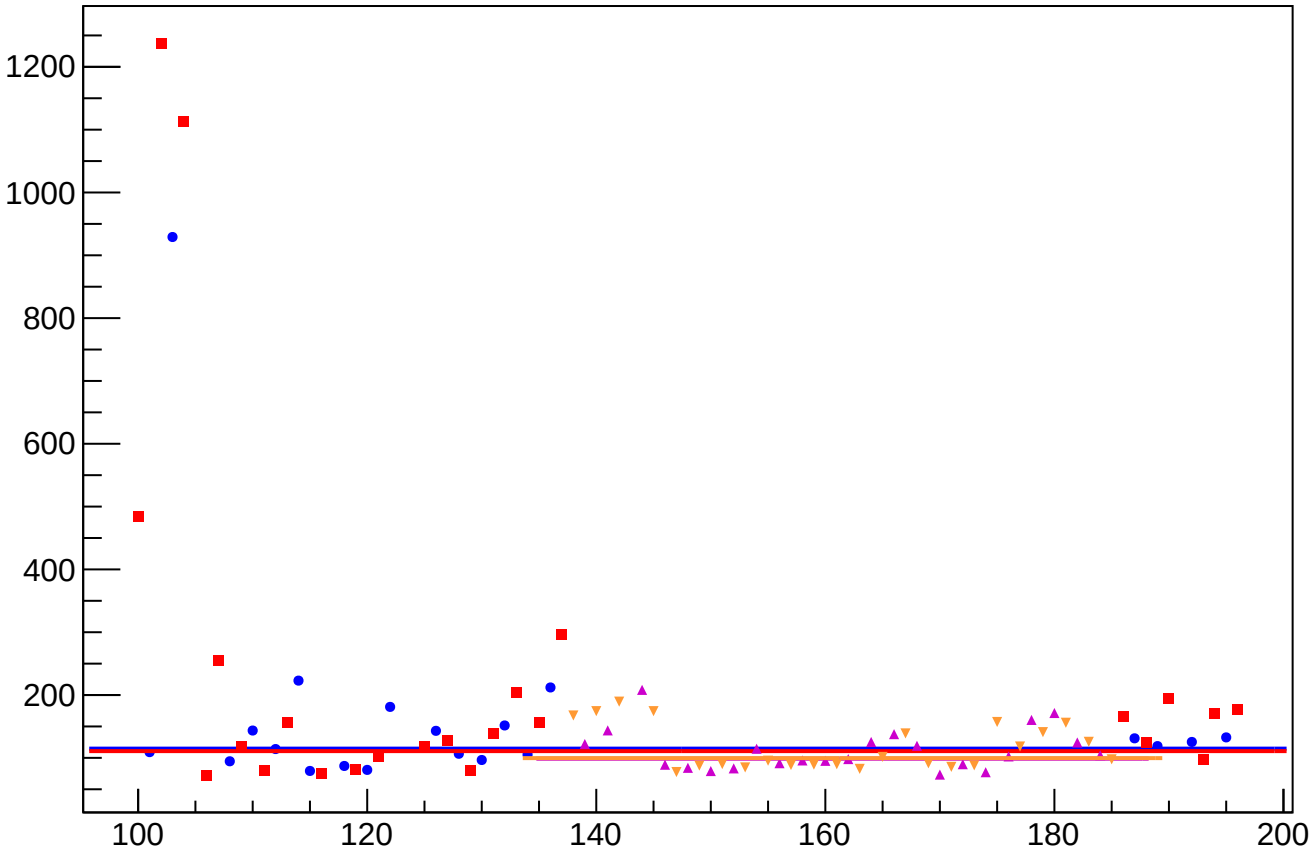
Left: -0.025+/-0.018 $\chi^2$/NDF: 59.0/46

Right: -0.024+/-0.029 $\chi^2$/NDF: 44.0/43

In: -0.028+/-0.022 $\chi^2$/NDF:52.2/42

Out: -0.021+/-0.021 $\chi^2$/NDF:50.8/47

All: -0.025+/-0.015 $\chi^2$/NDF: 103.0/90




Right In: 114.701+/-0.030 $\chi^2$/NDF: 1889531.1/19

Left Out: 99.590+/-0.018 $\chi^2$/NDF:2070986.6/23

Right Out: 110.746+/-0.028 $\chi^2$/NDF: 3450922.2/23

Left In: 98.669+/-0.018 $\chi^2$/NDF:2003365.1/22

Left: 99.125+/-0.013 $\chi^2$/NDF: 4075687.1/46

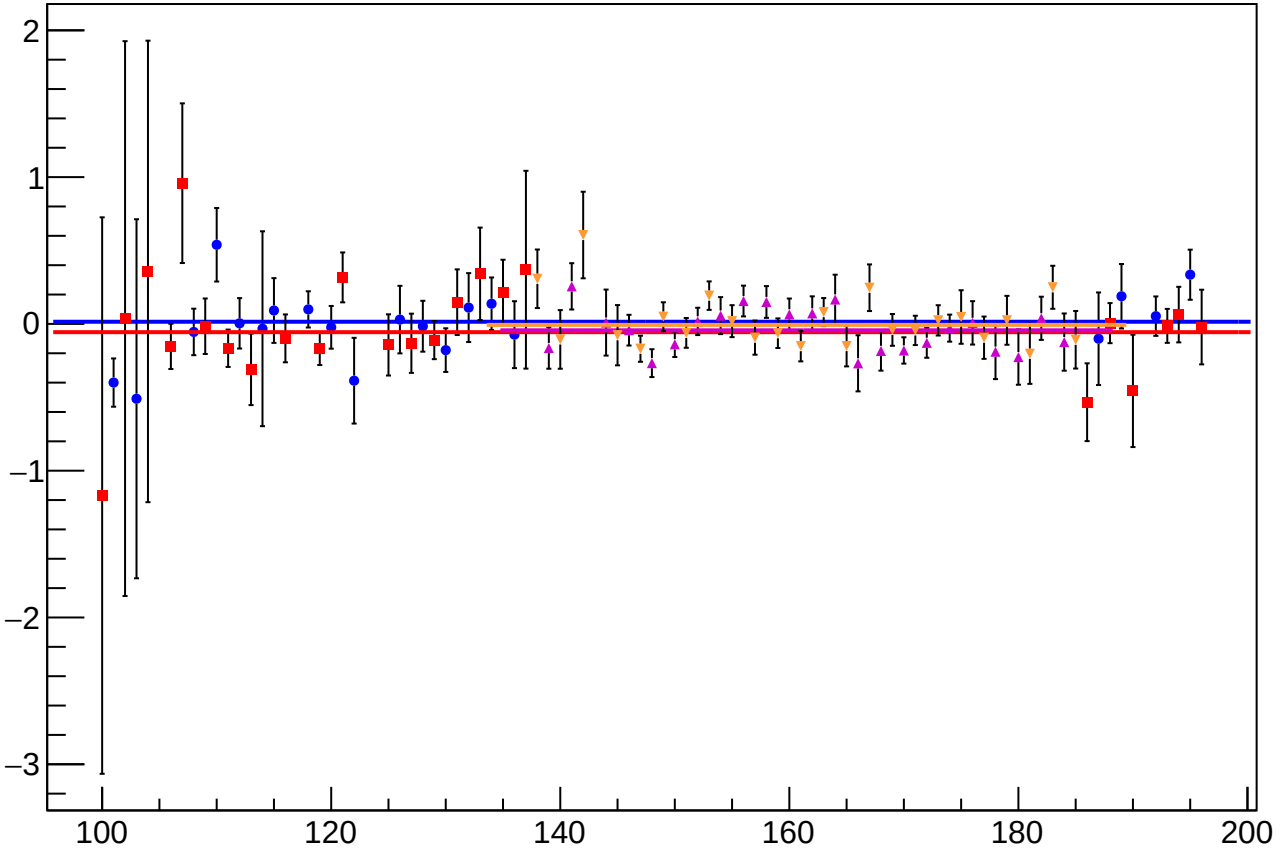
Right: 112.568+/-0.020 $\chi^2$/NDF: 5349924.4/43

In: 102.848+/-0.015 $\chi^2$/NDF:4106265.7/42

Out: 102.897+/-0.015 $\chi^2$/NDF:5637009.5/47

All: 102.873+/-0.011 $\chi^2$/NDF: 9743280.3/90

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.042 $\chi^2$/NDF: 20.5/19

Left Out: -0.007+/-0.025 $\chi^2$/NDF:27.7/23

Right Out: -0.056+/-0.039 $\chi^2$/NDF: 21.9/23

Left In: -0.044+/-0.025 $\chi^2$/NDF:30.3/22

Left: -0.025+/-0.018 $\chi^2$/NDF: 59.0/46

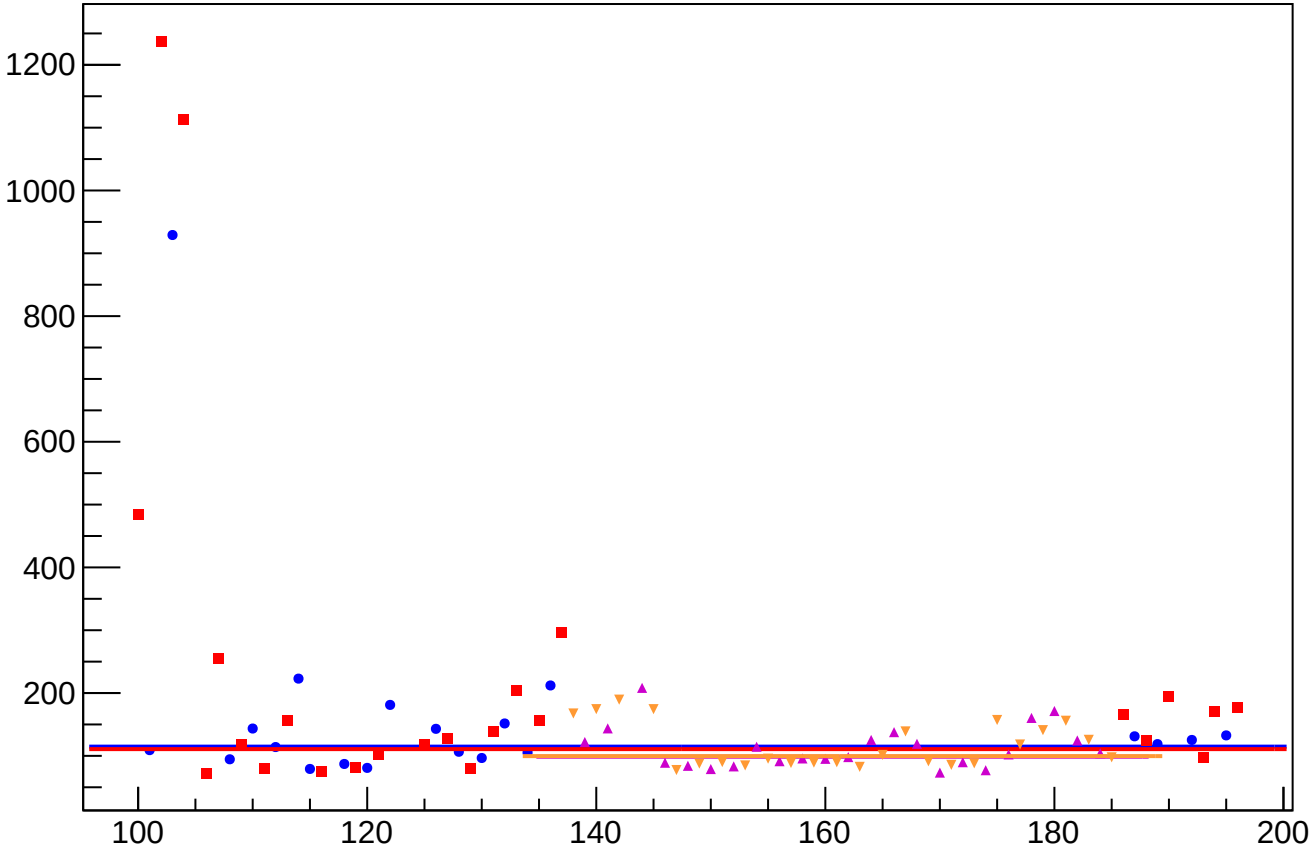
Right: -0.024+/-0.029 $\chi^2$/NDF: 44.0/43

In: -0.028+/-0.022 $\chi^2$/NDF:52.2/42

Out: -0.021+/-0.021 $\chi^2$/NDF:50.8/47

All: -0.025+/-0.015 $\chi^2$/NDF: 103.0/90

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 114.701+/-0.030 $\chi^2$/NDF: 1889531.1/19

Left Out: 99.590+/-0.018 $\chi^2$/NDF:2070986.6/23

Right Out: 110.746+/-0.028 $\chi^2$/NDF: 3450922.2/23

Left In: 98.669+/-0.018 $\chi^2$/NDF:2003365.1/22

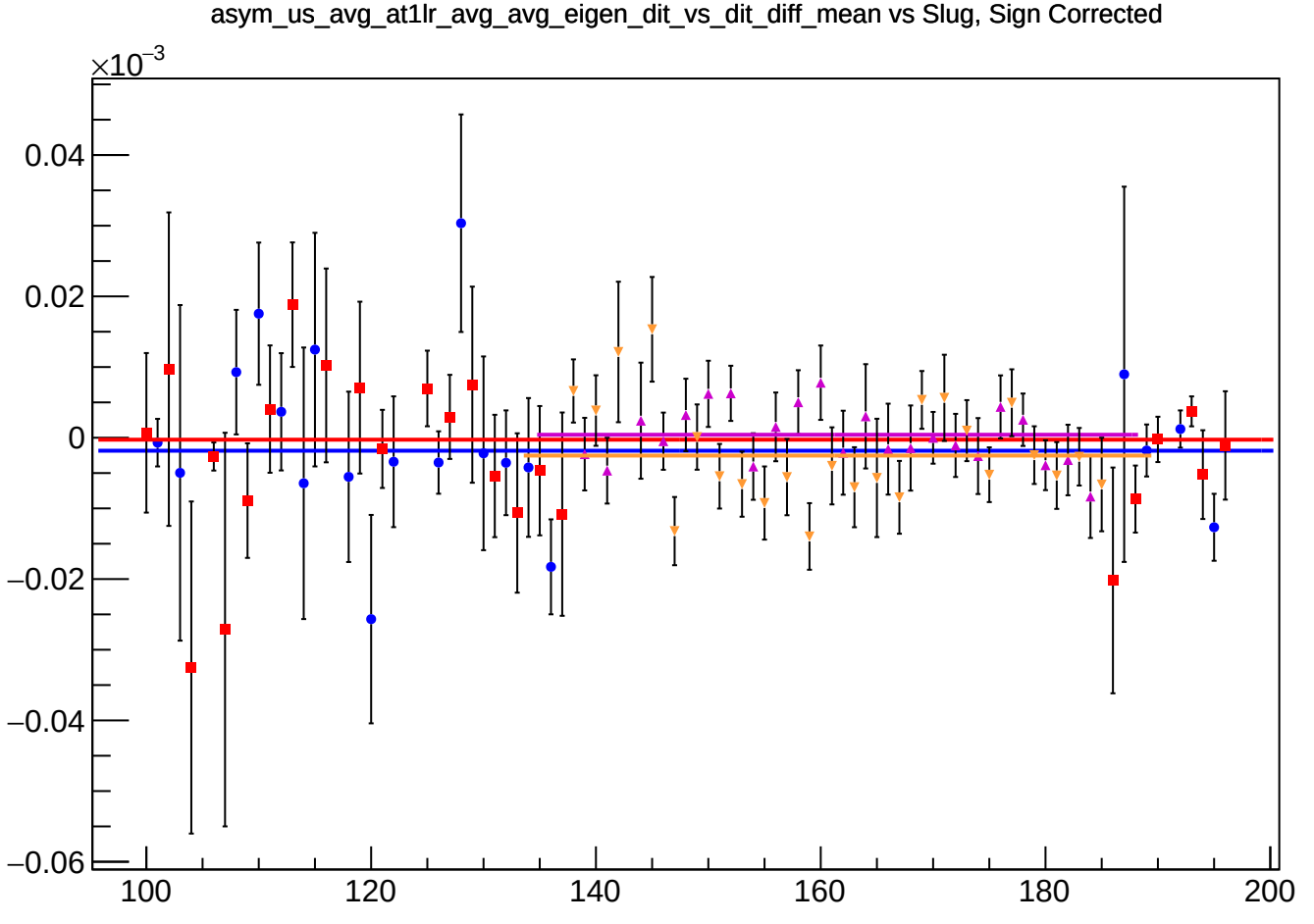
Left: 99.125+/-0.013 $\chi^2$/NDF: 4075687.1/46

Right: 112.568+/-0.020 $\chi^2$/NDF: 5349924.4/43

In: 102.848+/-0.015 $\chi^2$/NDF:4106265.7/42

Out: 102.897+/-0.015 $\chi^2$/NDF:5637009.5/47

All: 102.873+/-0.011 $\chi^2$/NDF: 9743280.3/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:40.2/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 24.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.9/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 60.4/46

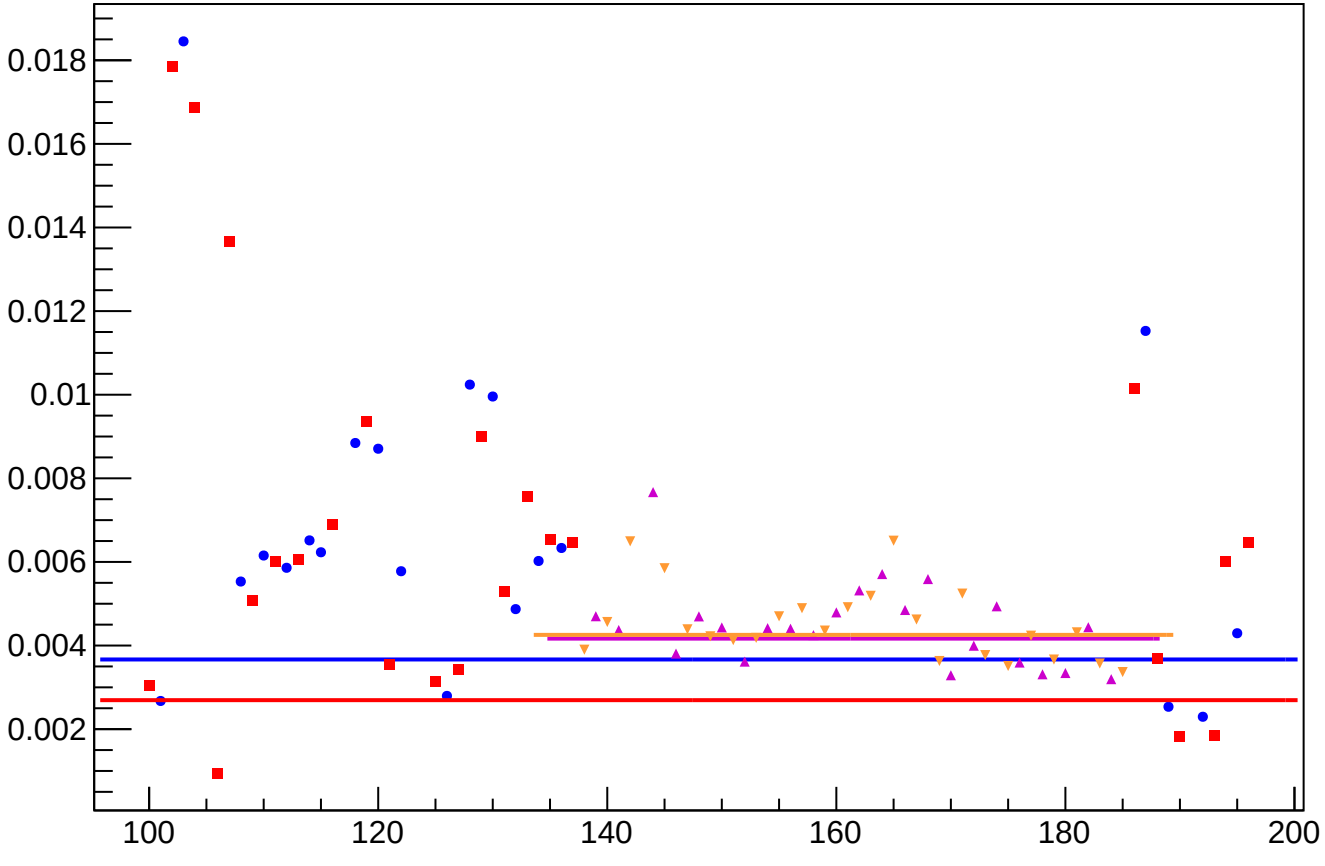
Right: -0.000+/-0.000 $\chi^2$/NDF: 52.4/43

In: -0.000+/-0.000 $\chi^2$/NDF:44.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:67.3/47

All: -0.000+/-0.000 $\chi^2$/NDF: 112.8/90

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 4386857.9/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:833222.5/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 8639523.4/23

Left In: 0.004+/-0.000 $\chi^2$/NDF:1277434.2/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 2118625.9/46

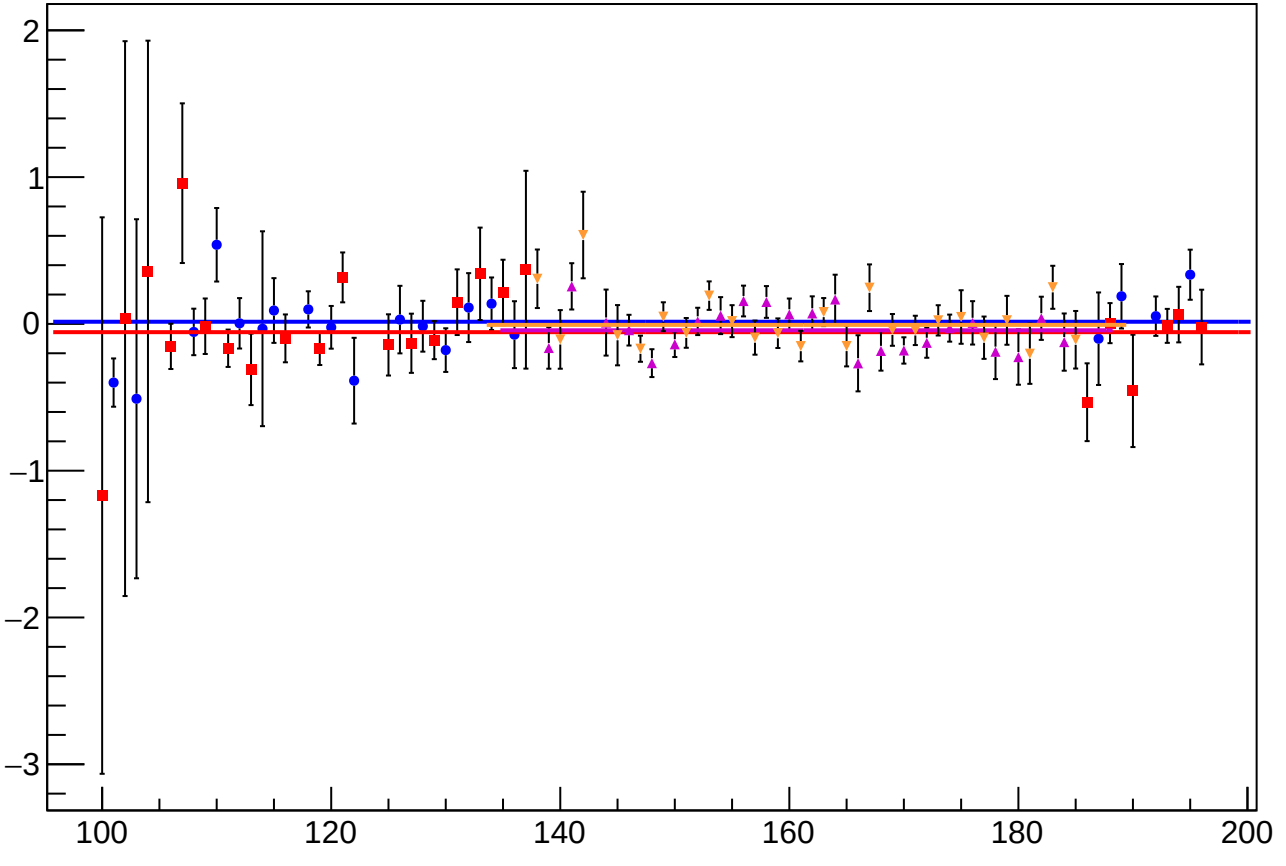
Right: 0.003+/-0.000 $\chi^2$/NDF: 13651540.0/43

In: 0.004+/-0.000 $\chi^2$/NDF:5837861.6/42

Out: 0.004+/-0.000 $\chi^2$/NDF:11715078.2/47

All: 0.004+/-0.000 $\chi^2$/NDF: 17930140.2/90

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.042 $\chi^2$/NDF: 20.5/19

Left Out: -0.007+/-0.025 $\chi^2$/NDF:27.7/23

Right Out: -0.056+/-0.039 $\chi^2$/NDF: 21.9/23

Left In: -0.044+/-0.025 $\chi^2$/NDF:30.3/22

Left: -0.025+/-0.018 $\chi^2$/NDF: 59.0/46

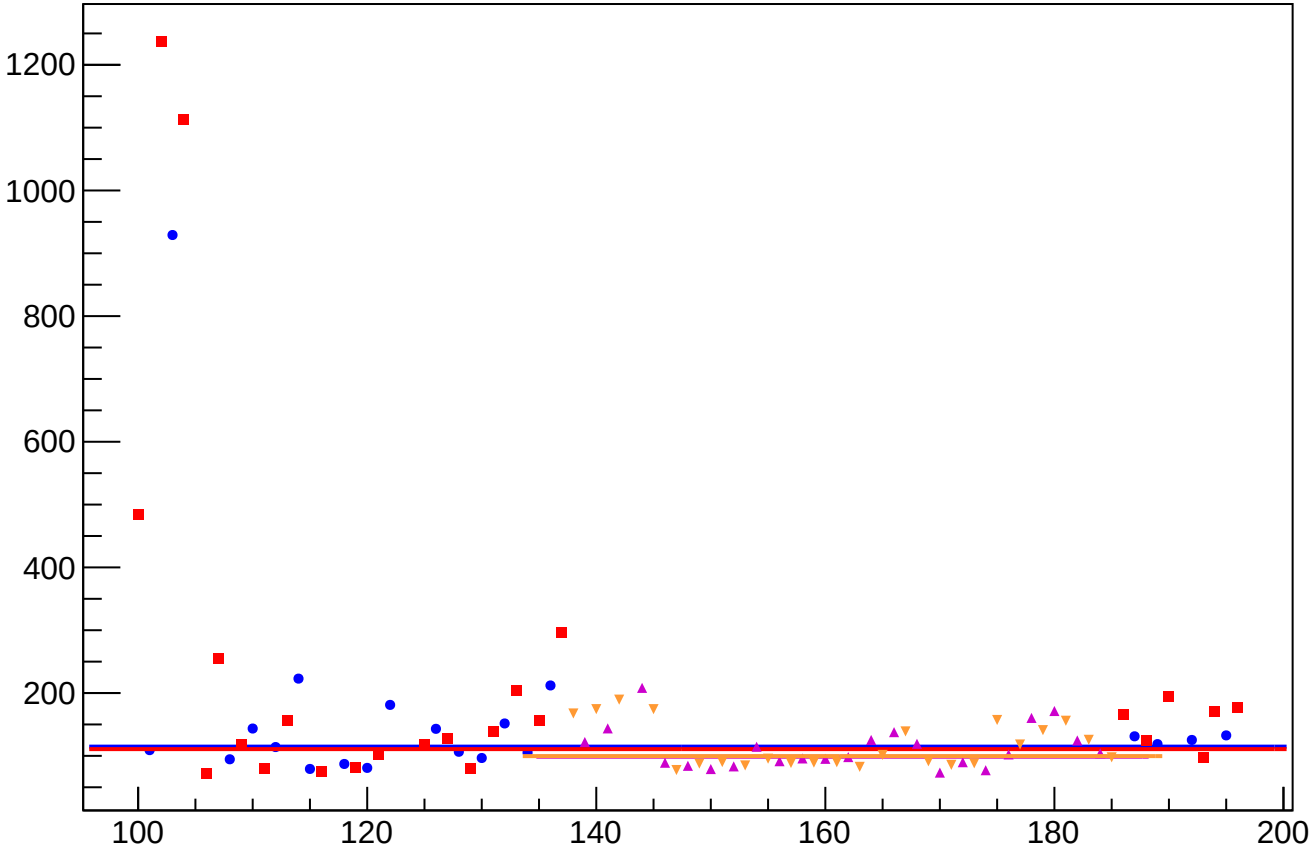
Right: -0.024+/-0.029 $\chi^2$/NDF: 44.0/43

In: -0.028+/-0.022 $\chi^2$/NDF:52.2/42

Out: -0.021+/-0.021 $\chi^2$/NDF:50.8/47

All: -0.025+/-0.015 $\chi^2$/NDF: 103.0/90

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 114.699+/-0.030 $\chi^2$/NDF: 1889596.8/19

Left Out: 99.590+/-0.018 $\chi^2$/NDF:2070951.9/23

Right Out: 110.745+/-0.028 $\chi^2$/NDF: 3450937.8/23

Left In: 98.669+/-0.018 $\chi^2$/NDF:2003332.7/22

Left: 99.125+/-0.013 $\chi^2$/NDF: 4075620.9/46

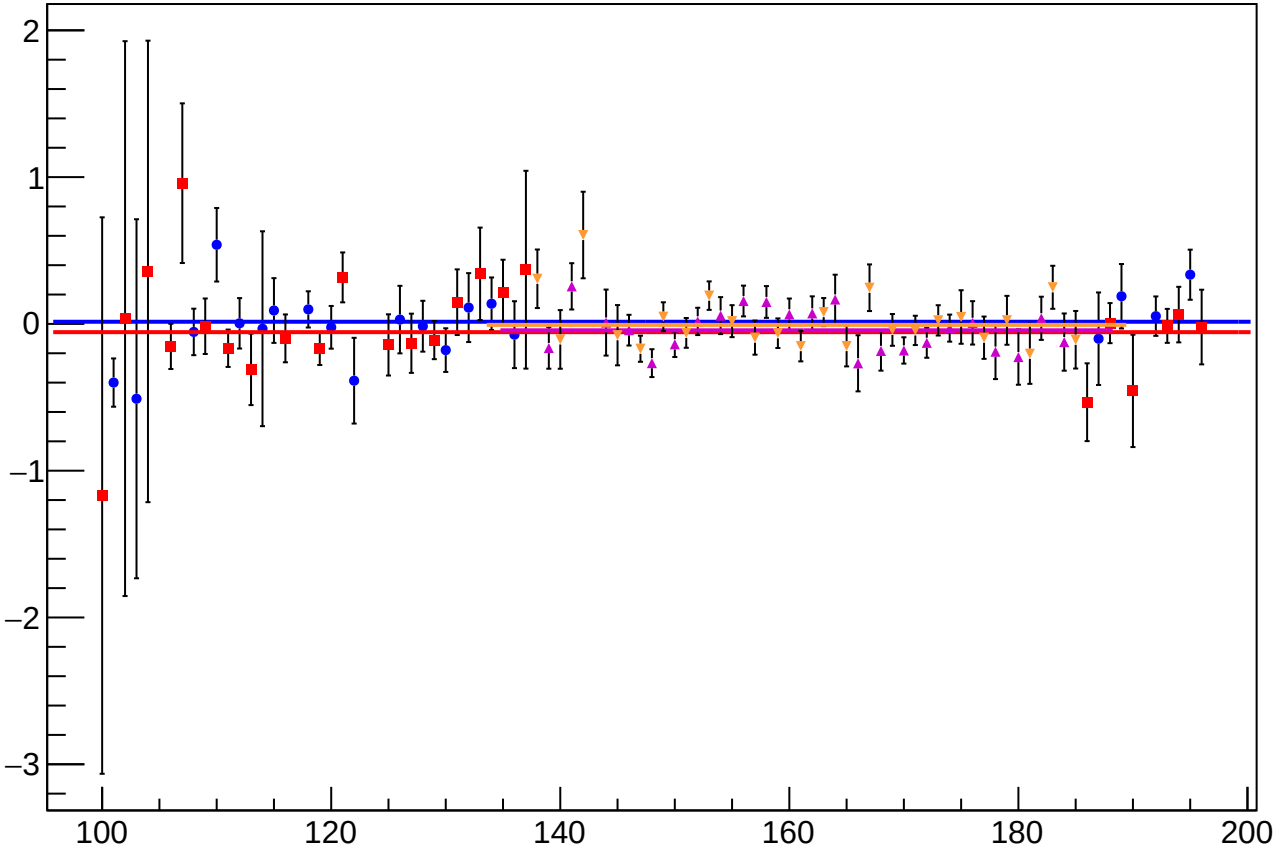
Right: 112.567+/-0.020 $\chi^2$/NDF: 5350001.2/43

In: 102.848+/-0.015 $\chi^2$/NDF:4106235.2/42

Out: 102.897+/-0.015 $\chi^2$/NDF:5636953.0/47

All: 102.873+/-0.011 $\chi^2$/NDF: 9743193.4/90

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.015+/-0.042 $\chi^2$/NDF: 20.5/19

Left Out: -0.007+/-0.025 $\chi^2$/NDF:27.7/23

Right Out: -0.056+/-0.039 $\chi^2$/NDF: 21.9/23

Left In: -0.044+/-0.025 $\chi^2$/NDF:30.3/22

Left: -0.025+/-0.018 $\chi^2$/NDF: 59.0/46

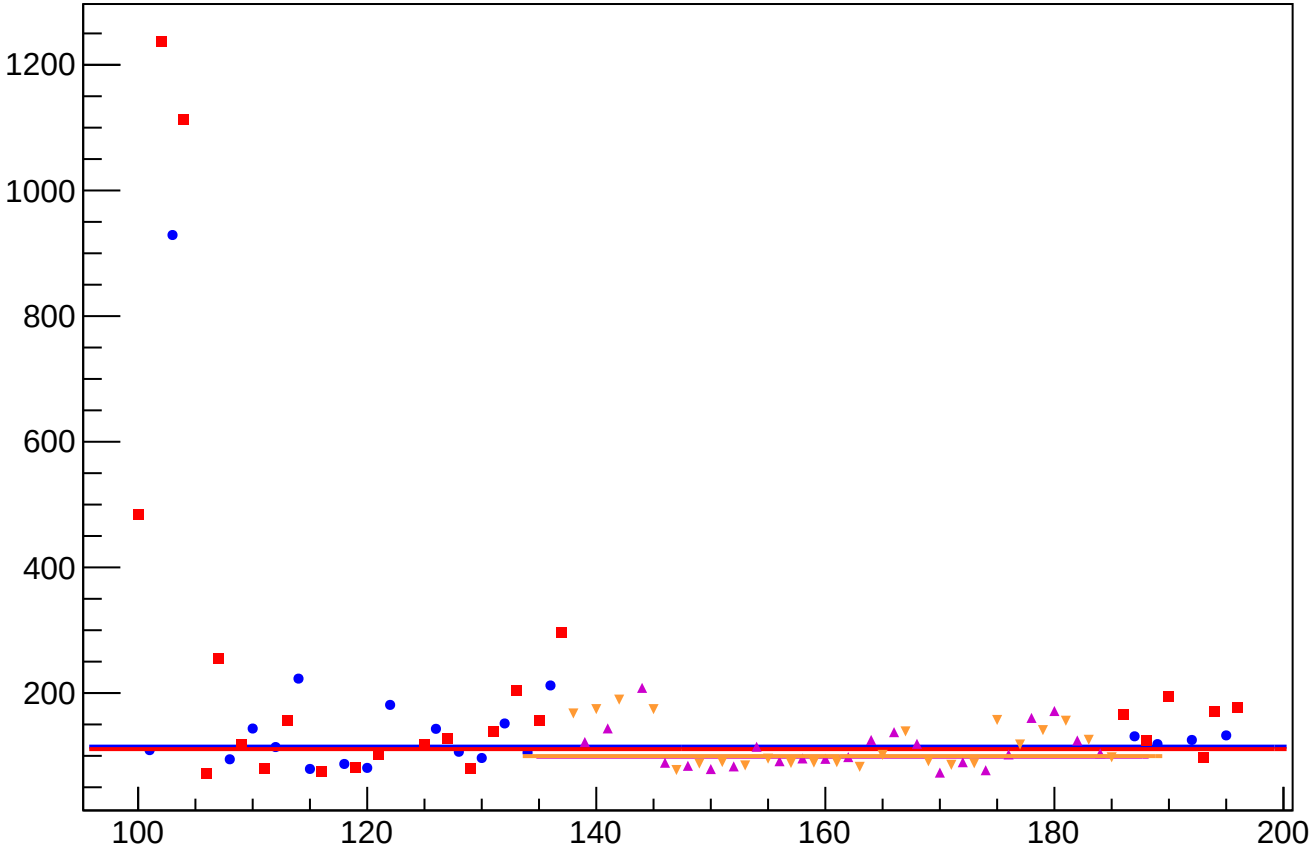
Right: -0.024+/-0.029 $\chi^2$/NDF: 44.0/43

In: -0.028+/-0.022 $\chi^2$/NDF:52.2/42

Out: -0.021+/-0.021 $\chi^2$/NDF:50.8/47

All: -0.025+/-0.015 $\chi^2$/NDF: 103.0/90

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 114.699+/-0.030 $\chi^2$/NDF: 1889596.8/19

Left Out: 99.590+/-0.018 $\chi^2$/NDF:2070951.9/23

Right Out: 110.745+/-0.028 $\chi^2$/NDF: 3450937.8/23

Left In: 98.669+/-0.018 $\chi^2$/NDF:2003332.7/22

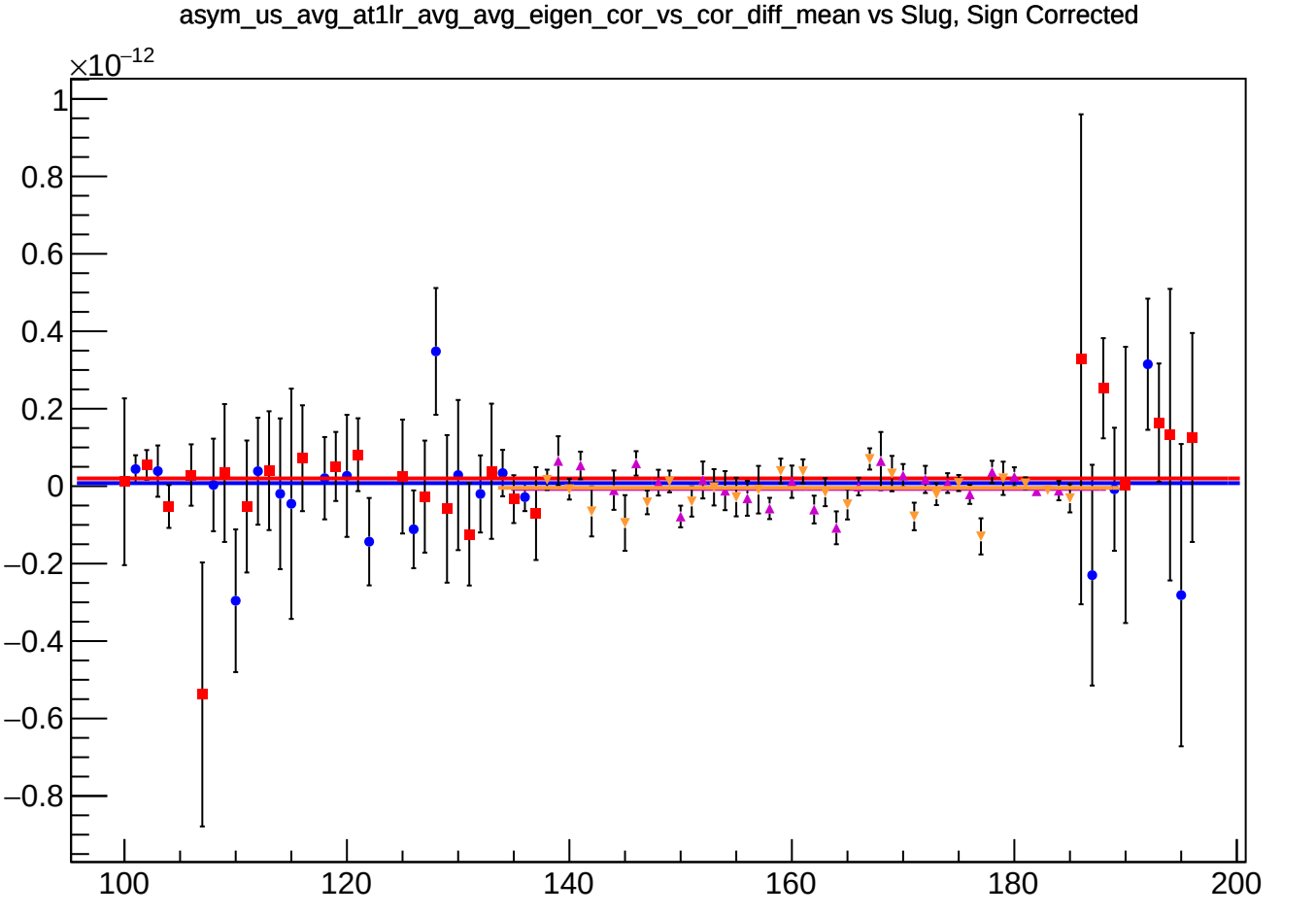
Left: 99.125+/-0.013 $\chi^2$/NDF: 4075620.9/46

Right: 112.567+/-0.020 $\chi^2$/NDF: 5350001.2/43

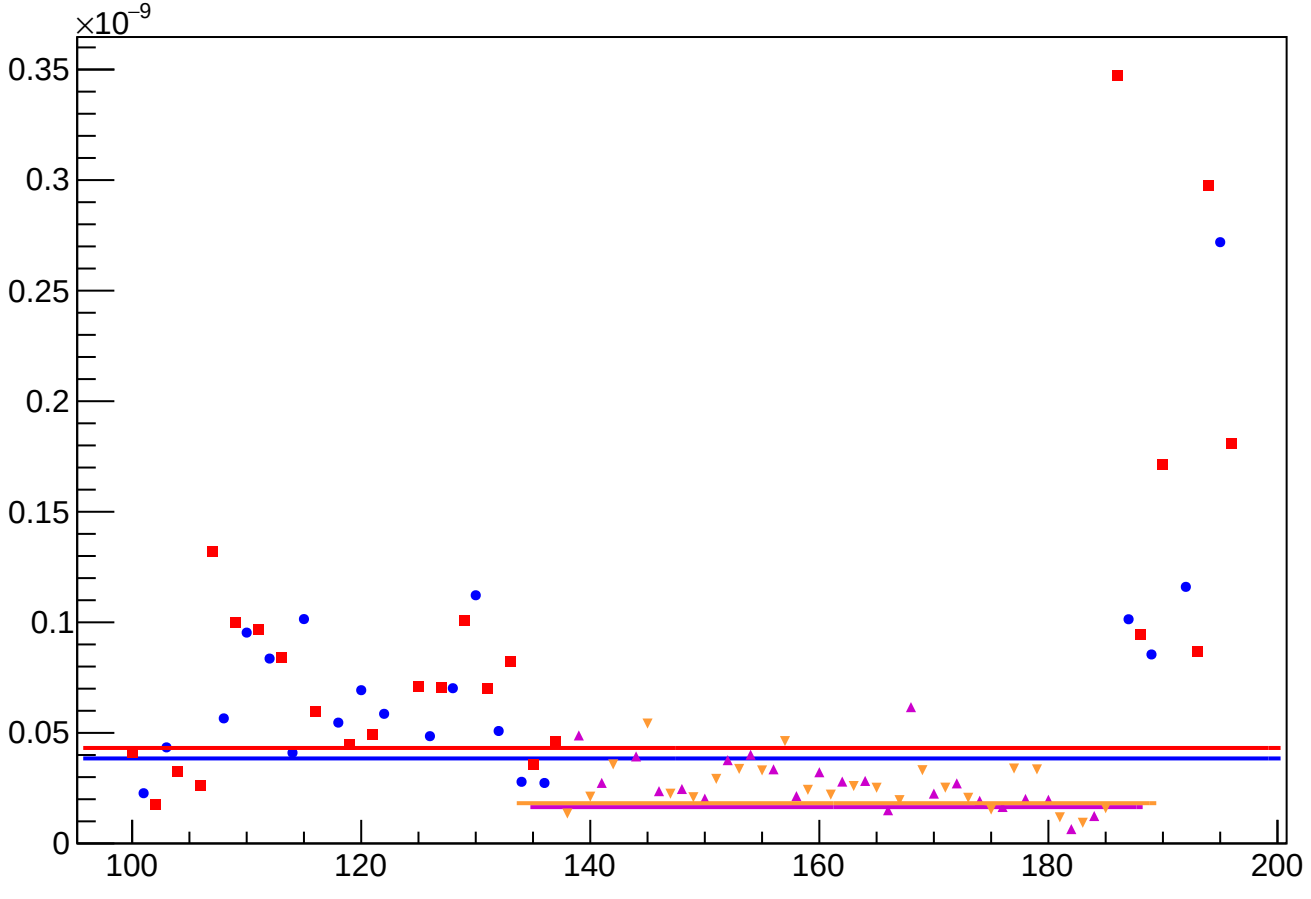
In: 102.848+/-0.015 $\chi^2$/NDF:4106235.2/42

Out: 102.897+/-0.015 $\chi^2$/NDF:5636953.0/47

All: 102.873+/-0.011 $\chi^2$/NDF: 9743193.4/90


asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 17.4/19
Left Out: -0.000+/-0.000 χ²/NDF:32.9/23
Right Out: 0.000+/-0.000 χ²/NDF: 13.5/23
Left In: -0.000+/-0.000 χ²/NDF:35.2/22
Left: -0.000+/-0.000 χ²/NDF: 68.3/46
Right: 0.000+/-0.000 χ²/NDF: 31.2/43
In: -0.000+/-0.000 χ²/NDF:53.2/42
Out: -0.000+/-0.000 χ²/NDF:47.7/47
All: -0.000+/-0.000 χ²/NDF: 101.2/90

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3201725.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4306302.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4929083.6/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:7007463.5/22

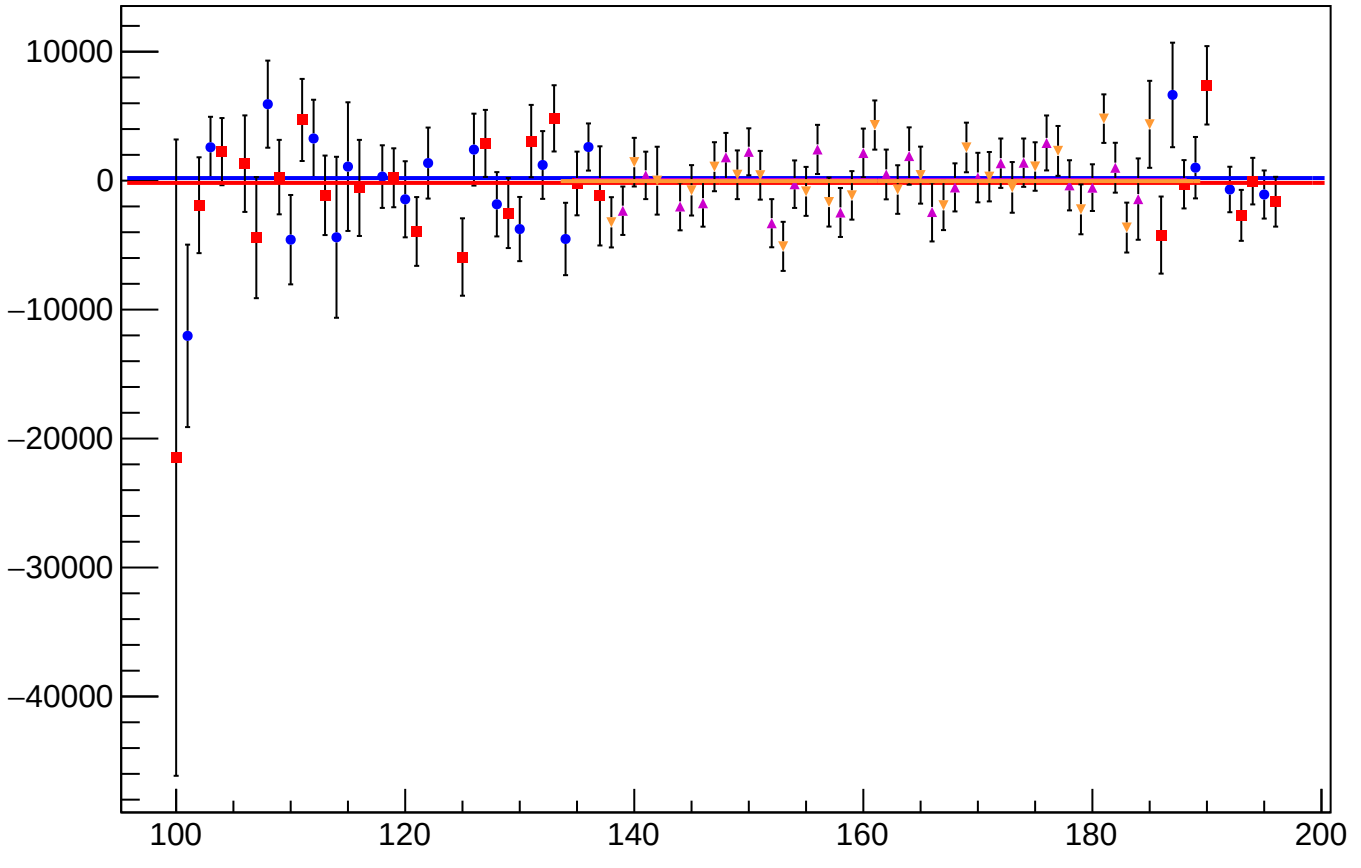
Left: 0.000+/-0.000 $\chi^2$/NDF: 11414627.4/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 8187255.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:12725995.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11872342.9/47

All: 0.000+/-0.000 $\chi^2$/NDF: 24718365.2/90




Right In: 200.310+/-594.269 $\chi^2$/NDF: 22.8/19

Left Out: -34.799+/-401.970 $\chi^2$/NDF:35.4/23

Right Out: -175.078+/-549.899 $\chi^2$/NDF: 28.5/23

Left In: 52.796+/-404.703 $\chi^2$/NDF:19.4/22

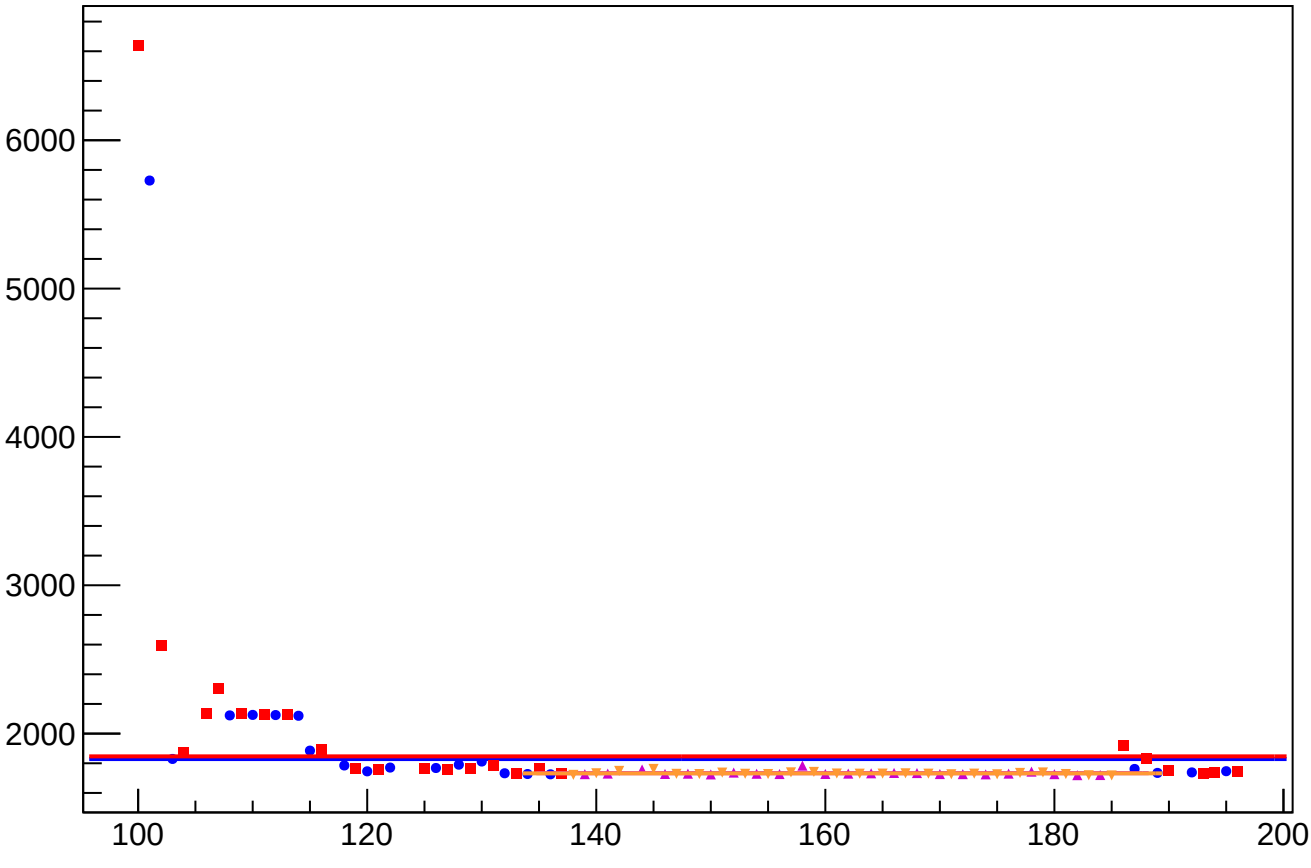
Left: 8.702+/-285.197 $\chi^2$/NDF: 54.8/46

Right: -1.919+/-403.613 $\chi^2$/NDF: 51.6/43

In: 99.534+/-334.502 $\chi^2$/NDF:42.2/42

Out: -83.652+/-324.513 $\chi^2$/NDF:64.0/47

All: 5.165+/-232.917 $\chi^2$/NDF: 106.3/90




Right In: 1828.417+/-0.420 $\chi^2$/NDF: 690757.8/19

Left Out: 1731.985+/-0.284 $\chi^2$/NDF:937.2/23

Right Out: 1846.547+/-0.389 $\chi^2$/NDF: 283435.9/23

Left In: 1733.315+/-0.286 $\chi^2$/NDF:2230.5/22

Left: 1732.646+/-0.202 $\chi^2$/NDF: 3178.5/46

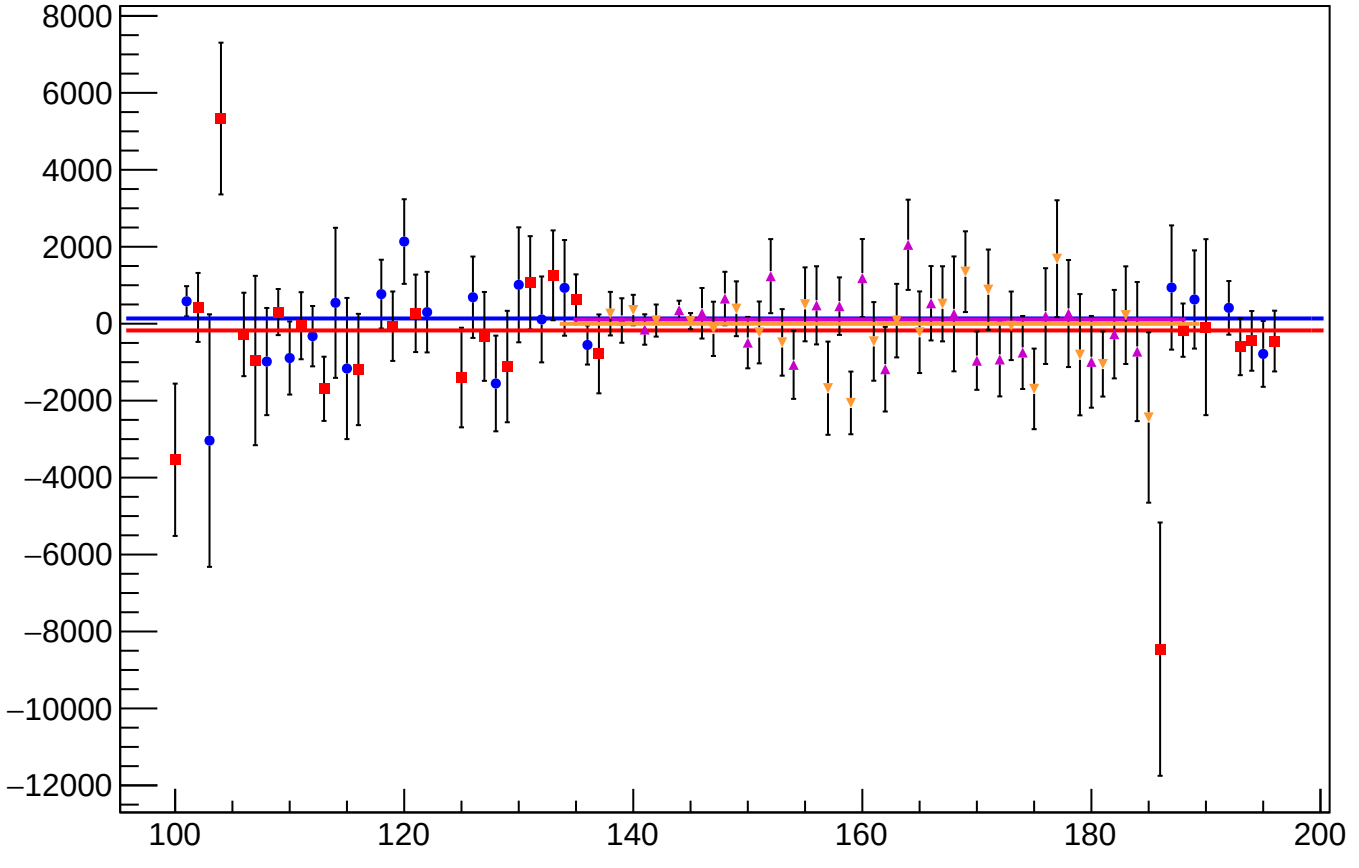
Right: 1838.184+/-0.285 $\chi^2$/NDF: 975196.5/43

In: 1763.447+/-0.237 $\chi^2$/NDF:727980.4/42

Out: 1771.882+/-0.229 $\chi^2$/NDF:340947.3/47

All: 1767.792+/-0.165 $\chi^2$/NDF: 1069582.9/90

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 135.920+/-199.750 $\chi^2$/NDF: 15.2/19

Left Out: -2.406+/-130.052 $\chi^2$/NDF:20.3/23

Right Out: -175.068+/-199.679 $\chi^2$/NDF: 28.6/23

Left In: 108.386+/-143.315 $\chi^2$/NDF:17.0/22

Left: 47.628+/-96.309 $\chi^2$/NDF: 37.6/46

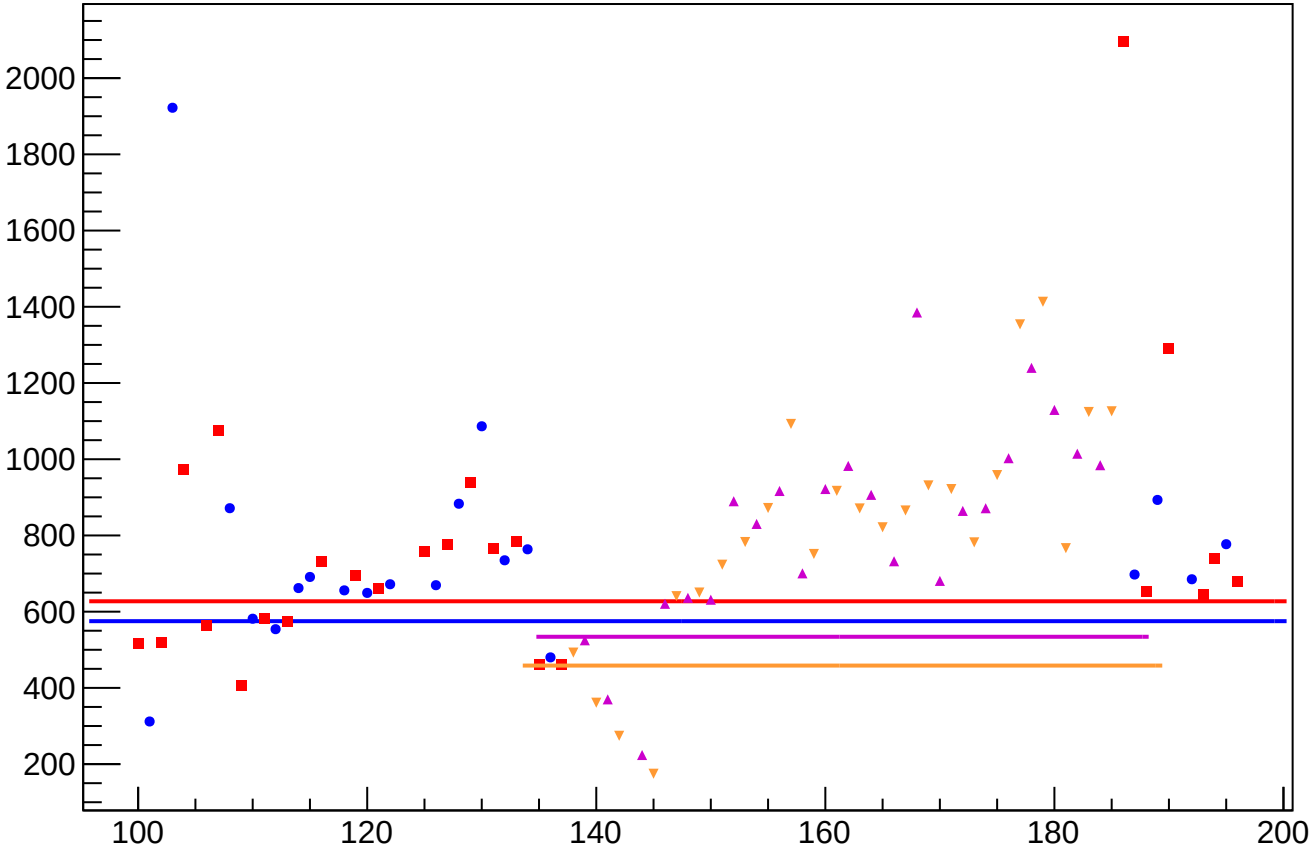
Right: -19.629+/-141.220 $\chi^2$/NDF: 45.0/43

In: 117.743+/-116.444 $\chi^2$/NDF:32.2/42

Out: -53.833+/-108.976 $\chi^2$/NDF:49.4/47

All: 26.277+/-79.567 $\chi^2$/NDF: 82.8/90

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 575.082+/-0.141 $\chi^2$/NDF: 2205313.5/19

Left Out: 458.579+/-0.092 $\chi^2$/NDF:11426734.4/23

Right Out: 627.280+/-0.141 $\chi^2$/NDF: 1507274.1/23

Left In: 534.161+/-0.101 $\chi^2$/NDF:8443293.1/22

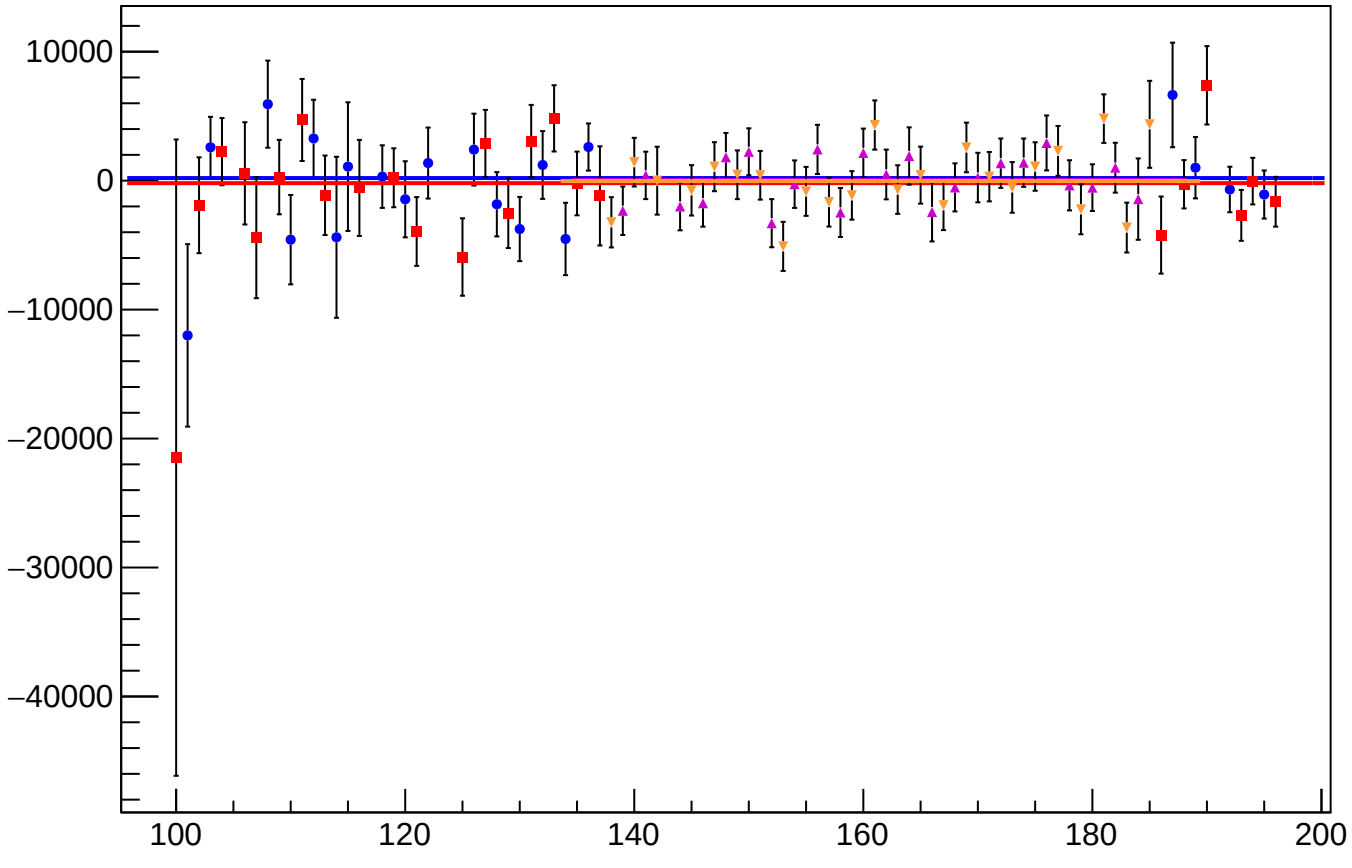
Left: 492.711+/-0.068 $\chi^2$/NDF: 20175085.0/46

Right: 601.190+/-0.100 $\chi^2$/NDF: 3780900.2/43

In: 548.067+/-0.082 $\chi^2$/NDF:10704018.3/42

Out: 508.826+/-0.077 $\chi^2$/NDF:13936383.9/47

All: 527.148+/-0.056 $\chi^2$/NDF: 24761479.7/90




Right In: 200.390+/-594.269 $\chi^2$/NDF: 22.8/19

Left Out: -34.742+/-401.970 $\chi^2$/NDF:35.4/23

Right Out: -193.278+/-550.547 $\chi^2$/NDF: 28.4/23

Left In: 52.714+/-404.703 $\chi^2$/NDF:19.4/22

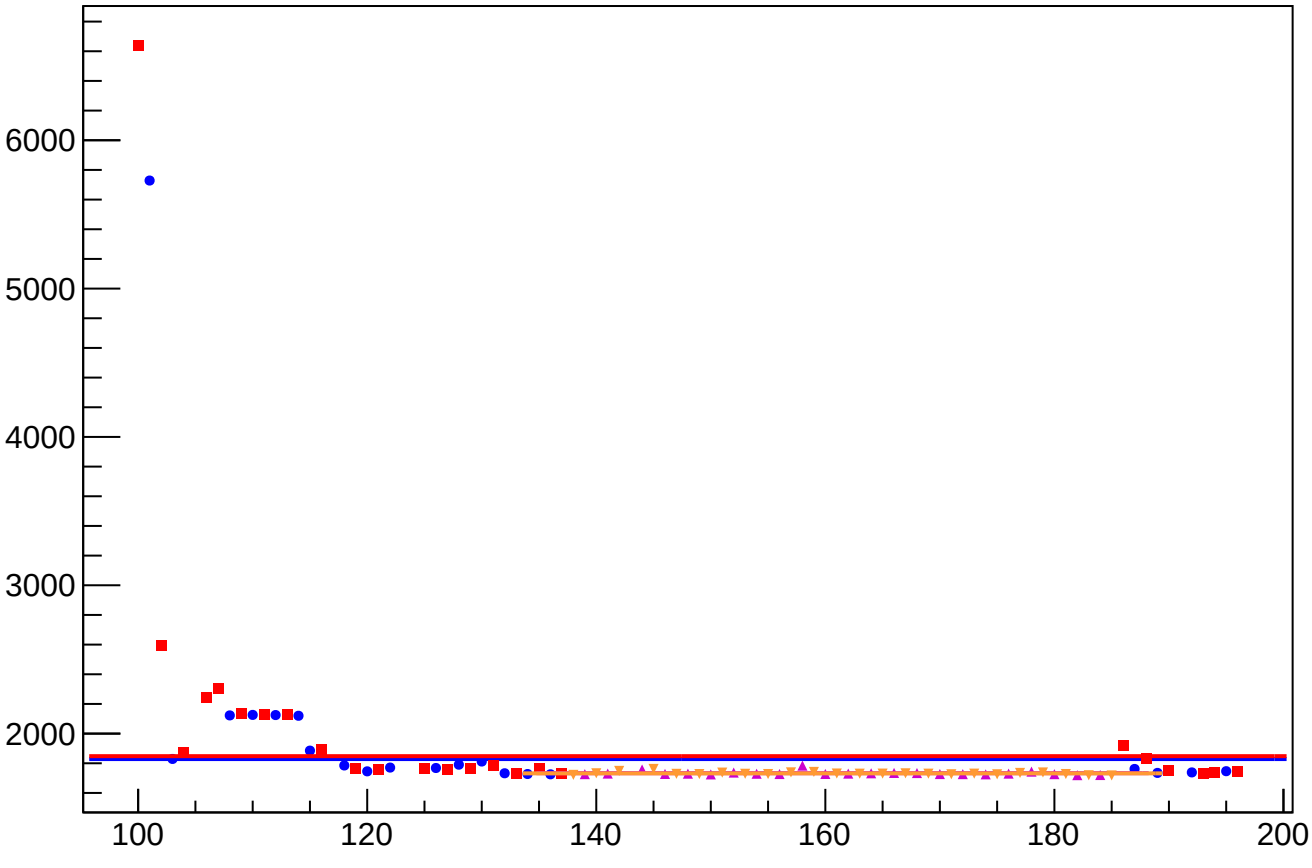
Left: 8.689+/-285.197 $\chi^2$/NDF: 54.8/46

Right: -11.456+/-403.869 $\chi^2$/NDF: 51.4/43

In: 99.503+/-334.502 $\chi^2$/NDF:42.2/42

Out: -89.869+/-324.646 $\chi^2$/NDF:63.8/47

All: 1.986+/-232.966 $\chi^2$/NDF: 106.2/90




Right In: 1828.417+/-0.420 $\chi^2$/NDF: 690757.7/19

Left Out: 1731.985+/-0.284 $\chi^2$/NDF:937.2/23

Right Out: 1847.890+/-0.389 $\chi^2$/NDF: 291276.4/23

Left In: 1733.315+/-0.286 $\chi^2$/NDF:2230.5/22

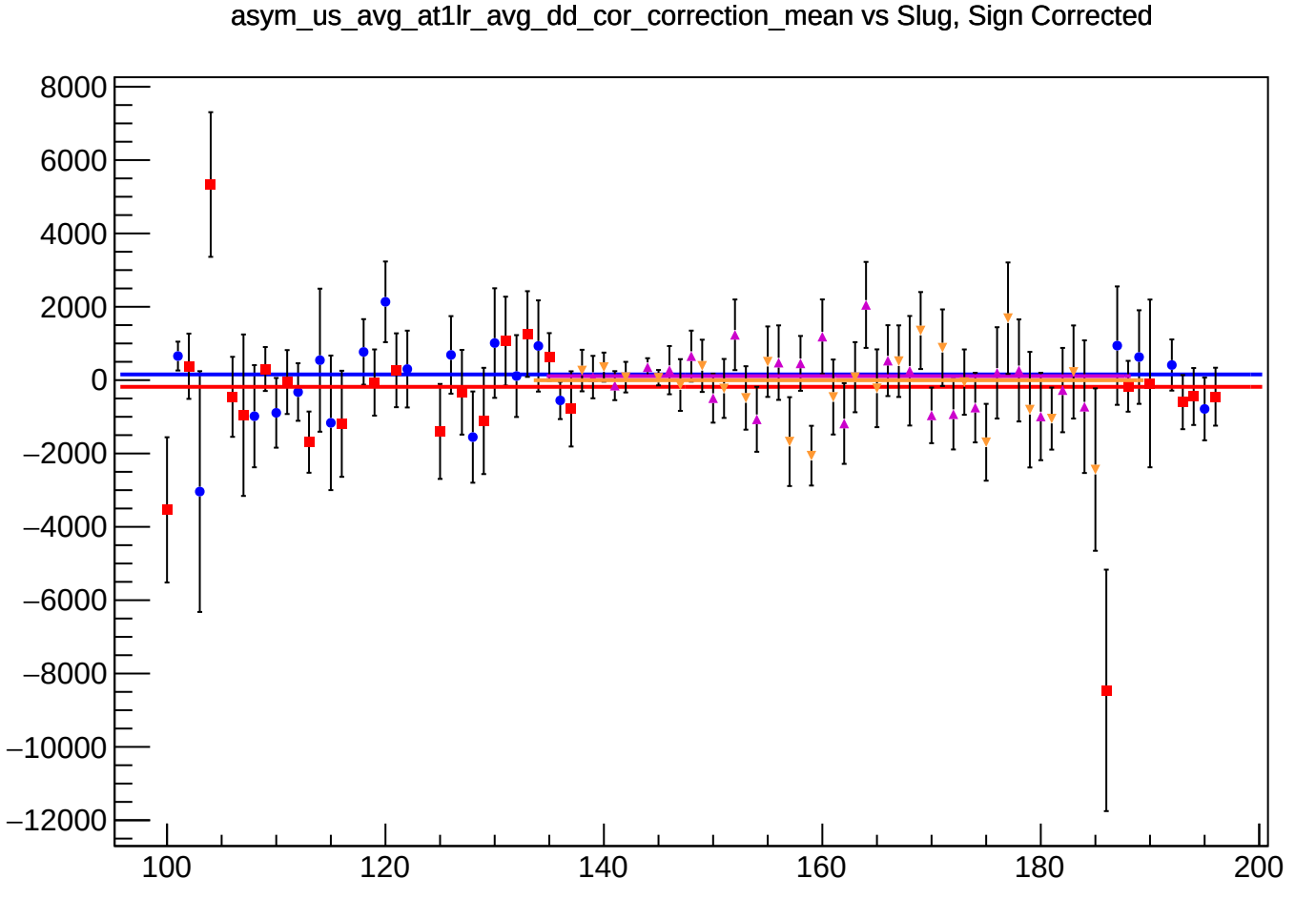
Left: 1732.646+/-0.202 $\chi^2$/NDF: 3178.5/46

Right: 1838.896+/-0.286 $\chi^2$/NDF: 983189.7/43

In: 1763.447+/-0.237 $\chi^2$/NDF:727980.2/42

Out: 1772.288+/-0.230 $\chi^2$/NDF:350033.4/47

All: 1768.000+/-0.165 $\chi^2$/NDF: 1078733.1/90




Right In: 155.122+/-199.694 $\chi^2$/NDF: 15.6/19

Left Out: -2.529+/-130.054 $\chi^2$/NDF:20.3/23

Right Out: -182.727+/-199.647 $\chi^2$/NDF: 28.6/23

Left In: 108.358+/-143.315 $\chi^2$/NDF:17.0/22

Left: 47.548+/-96.310 $\chi^2$/NDF: 37.6/46

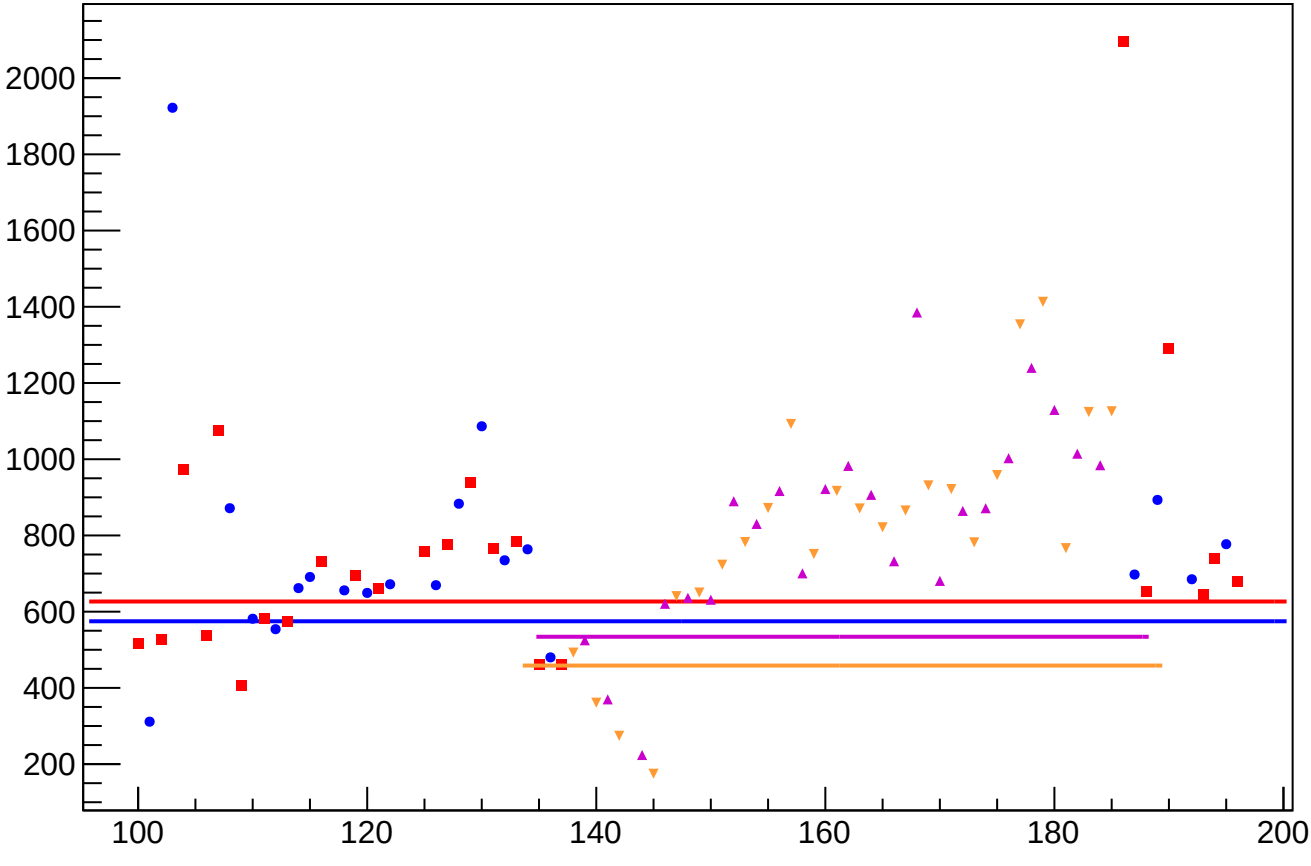
Right: -13.842+/-141.188 $\chi^2$/NDF: 45.7/43

In: 124.256+/-116.433 $\chi^2$/NDF:32.7/42

Out: -56.214+/-108.972 $\chi^2$/NDF:49.5/47

All: 28.054+/-79.562 $\chi^2$/NDF: 83.4/90

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 574.805+/-0.141 $\chi^2$/NDF: 2210666.8/19

Left Out: 458.589+/-0.092 $\chi^2$/NDF:11426319.1/23

Right Out: 626.665+/-0.141 $\chi^2$/NDF: 1510903.7/23

Left In: 534.168+/-0.101 $\chi^2$/NDF:8442812.5/22

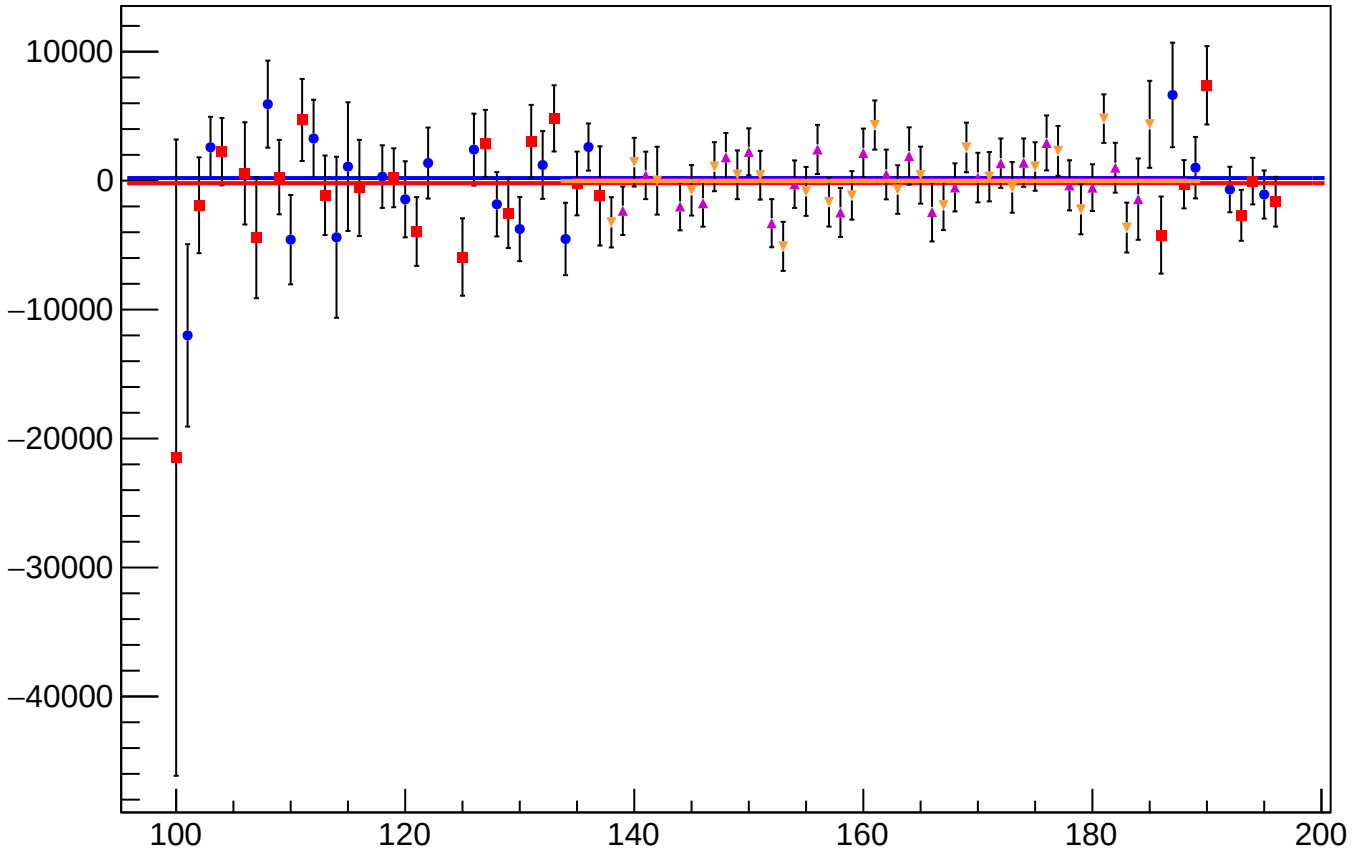
Left: 492.721+/-0.068 $\chi^2$/NDF: 20174164.1/46

Right: 600.741+/-0.100 $\chi^2$/NDF: 3789029.2/43

In: 547.983+/-0.082 $\chi^2$/NDF:10708144.9/42

Out: 508.663+/-0.077 $\chi^2$/NDF:13932401.5/47

All: 527.023+/-0.056 $\chi^2$/NDF: 24762134.3/90




Right In: 200.390+/-594.269 $\chi^2$/NDF: 22.8/19

Left Out: -34.742+/-401.970 $\chi^2$/NDF:35.4/23

Right Out: -193.278+/-550.547 $\chi^2$/NDF: 28.4/23

Left In: 52.714+/-404.703 $\chi^2$/NDF:19.4/22

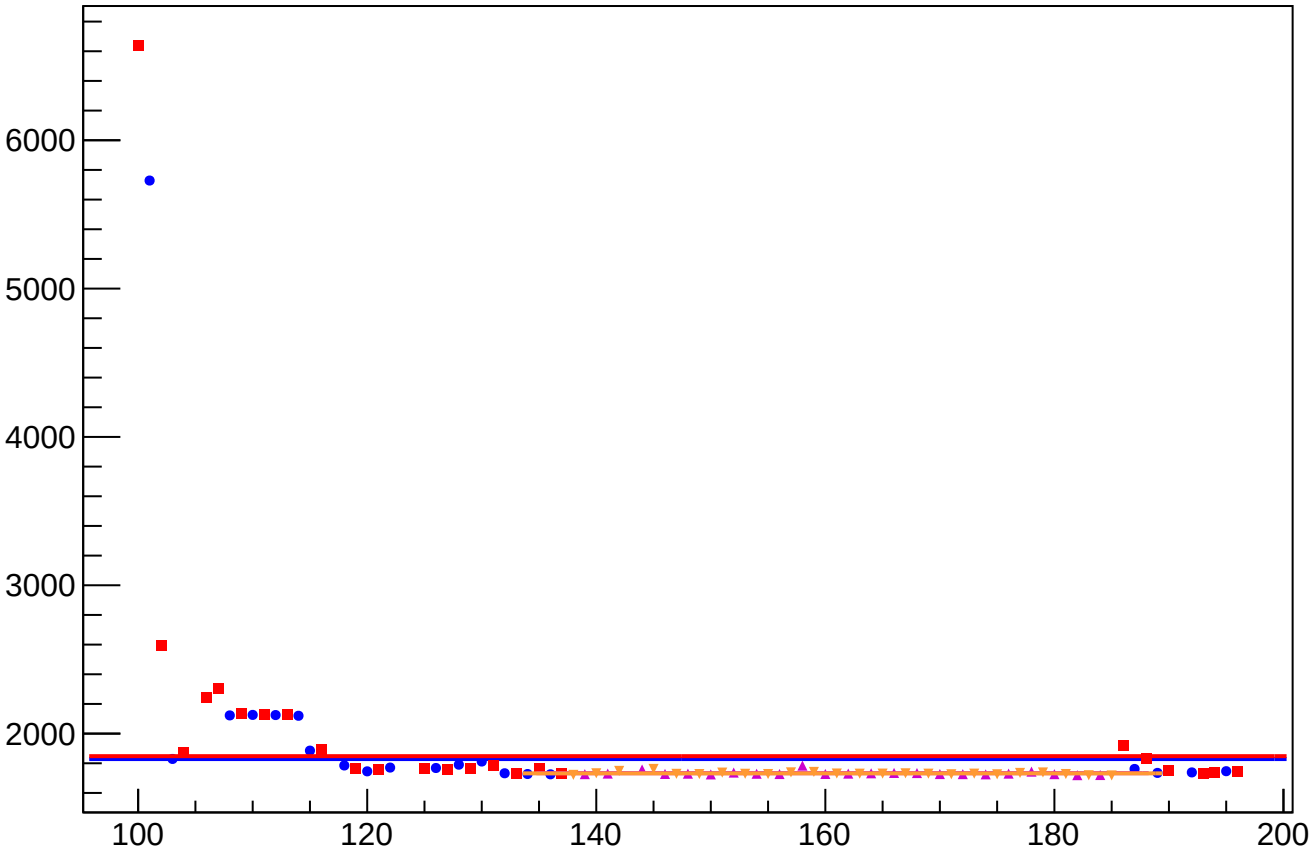
Left: 8.689+/-285.197 $\chi^2$/NDF: 54.8/46

Right: -11.456+/-403.869 $\chi^2$/NDF: 51.4/43

In: 99.503+/-334.502 $\chi^2$/NDF:42.2/42

Out: -89.869+/-324.646 $\chi^2$/NDF:63.8/47

All: 1.986+/-232.966 $\chi^2$/NDF: 106.2/90




Right In: 1828.417+/-0.420 $\chi^2$/NDF: 690757.7/19

Left Out: 1731.985+/-0.284 $\chi^2$/NDF:937.2/23

Right Out: 1847.890+/-0.389 $\chi^2$/NDF: 291276.4/23

Left In: 1733.315+/-0.286 $\chi^2$/NDF:2230.5/22

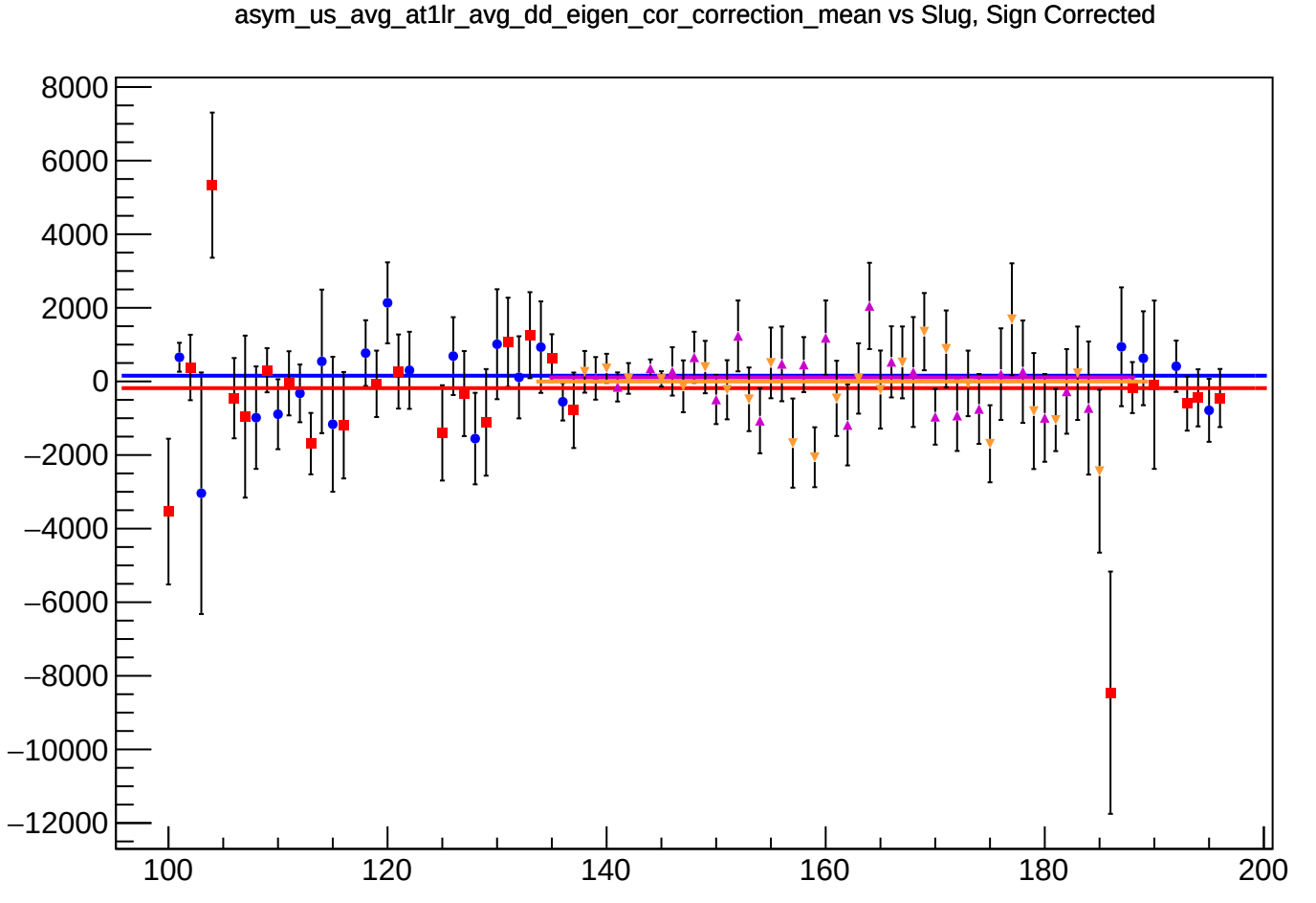
Left: 1732.646+/-0.202 $\chi^2$/NDF: 3178.5/46

Right: 1838.896+/-0.286 $\chi^2$/NDF: 983189.7/43

In: 1763.447+/-0.237 $\chi^2$/NDF:727980.2/42

Out: 1772.288+/-0.230 $\chi^2$/NDF:350033.4/47

All: 1768.000+/-0.165 $\chi^2$/NDF: 1078733.1/90




Right In: 155.122+/-199.694 $\chi^2$/NDF: 15.6/19

Left Out: -2.529+/-130.054 $\chi^2$/NDF:20.3/23

Right Out: -182.727+/-199.647 $\chi^2$/NDF: 28.6/23

Left In: 108.358+/-143.315 $\chi^2$/NDF:17.0/22

Left: 47.548+/-96.310 $\chi^2$/NDF: 37.6/46

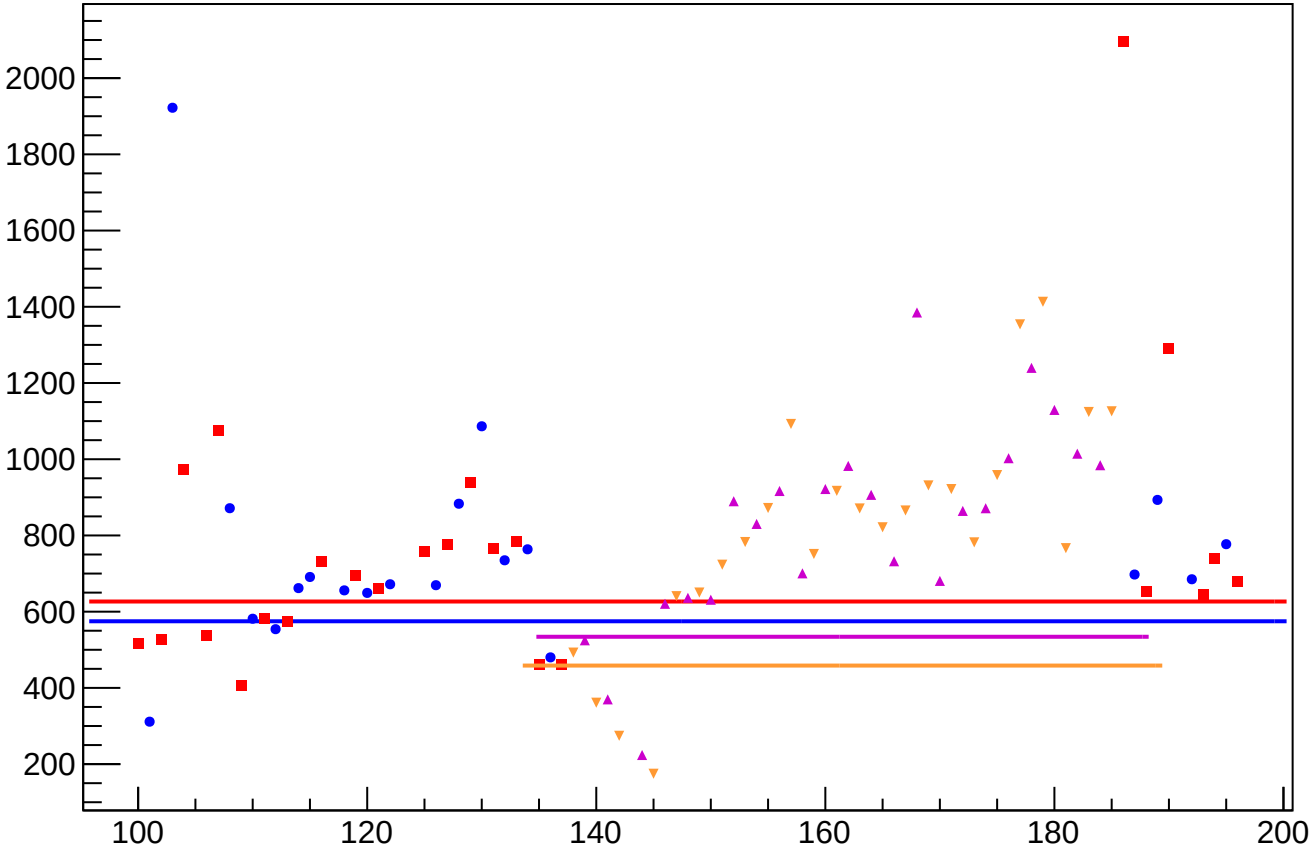
Right: -13.842+/-141.188 $\chi^2$/NDF: 45.7/43

In: 124.256+/-116.433 $\chi^2$/NDF:32.7/42

Out: -56.214+/-108.972 $\chi^2$/NDF:49.5/47

All: 28.054+/-79.562 $\chi^2$/NDF: 83.4/90

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 574.805+/-0.141 $\chi^2$/NDF: 2210666.8/19

Left Out: 458.589+/-0.092 $\chi^2$/NDF:11426319.1/23

Right Out: 626.665+/-0.141 $\chi^2$/NDF: 1510903.7/23

Left In: 534.168+/-0.101 $\chi^2$/NDF:8442812.5/22

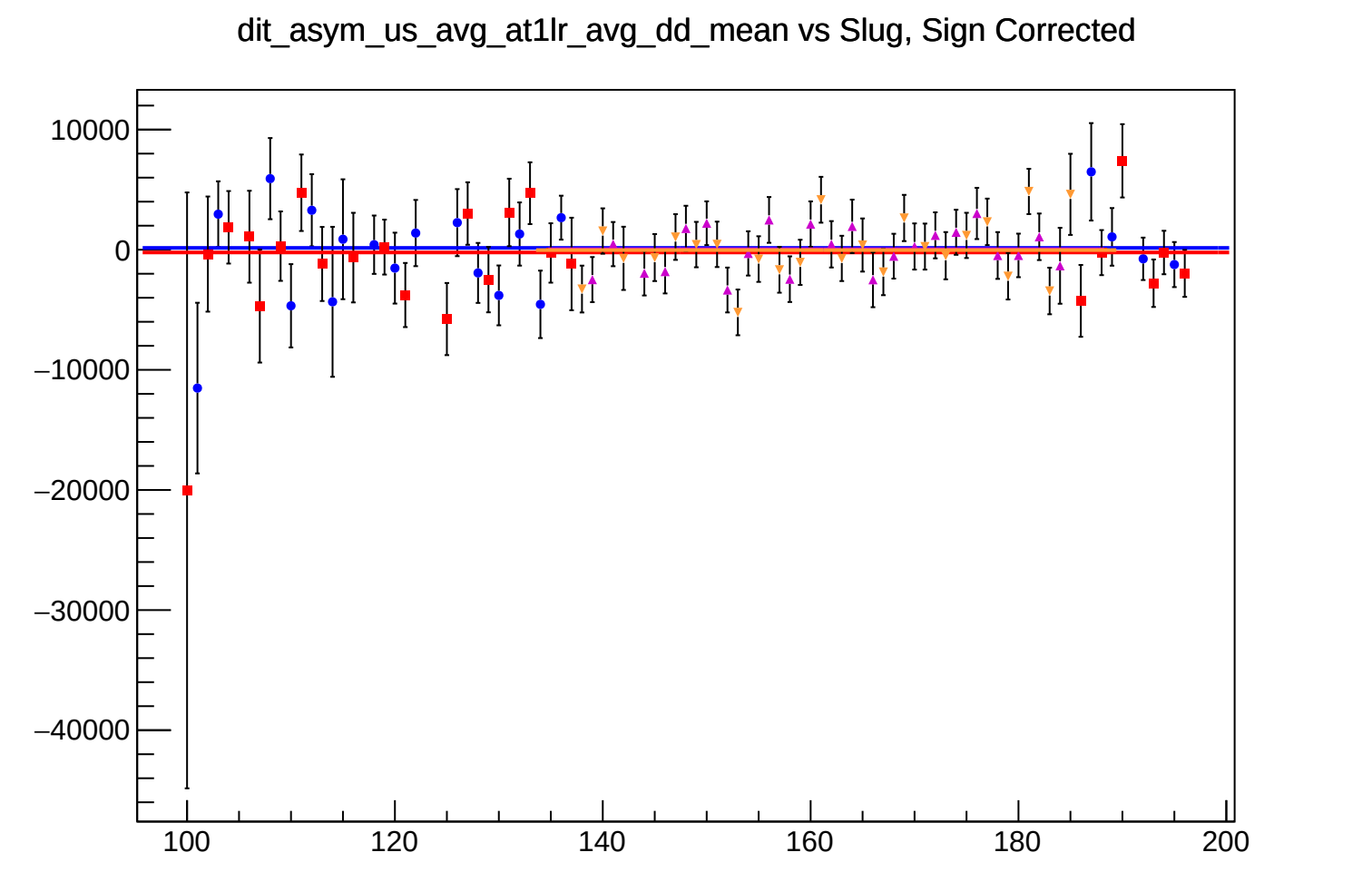
Left: 492.721+/-0.068 $\chi^2$/NDF: 20174164.1/46

Right: 600.741+/-0.100 $\chi^2$/NDF: 3789029.2/43

In: 547.983+/-0.082 $\chi^2$/NDF:10708144.9/42

Out: 508.663+/-0.077 $\chi^2$/NDF:13932401.5/47

All: 527.023+/-0.056 $\chi^2$/NDF: 24762134.3/90




Right In: 152.548+/-600.153 $\chi^2$/NDF: 22.8/19

Left Out: -29.389+/-402.317 $\chi^2$/NDF:35.4/23

Right Out: -229.571+/-556.845 $\chi^2$/NDF: 27.9/23

Left In: 42.465+/-405.052 $\chi^2$/NDF:19.9/22

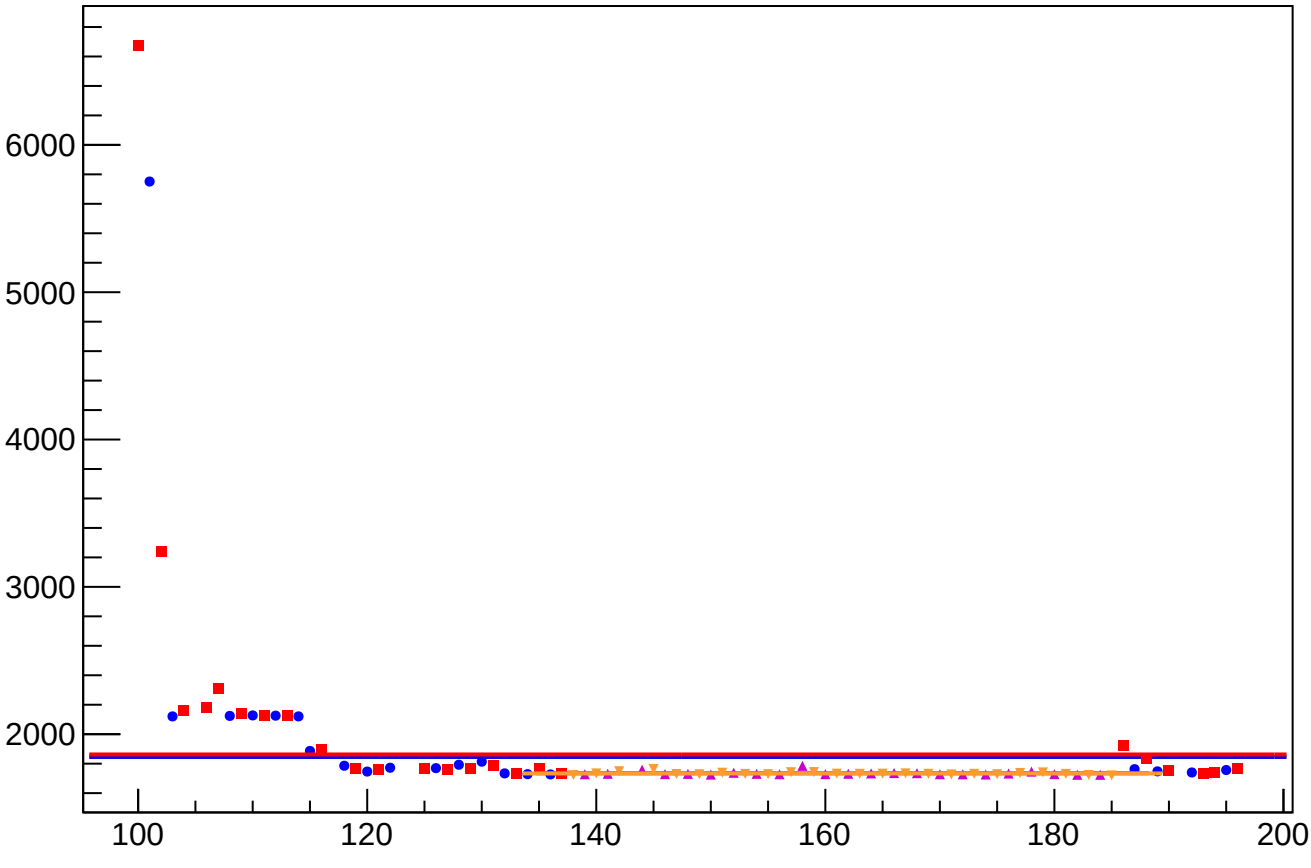
Left: 6.295+/-285.443 $\chi^2$/NDF: 55.3/46

Right: -52.795+/-408.202 $\chi^2$/NDF: 50.9/43

In: 76.916+/-335.740 $\chi^2$/NDF:42.7/42

Out: -98.045+/-326.108 $\chi^2$/NDF:63.4/47

All: -13.110+/-233.924 $\chi^2$/NDF: 106.2/90




Right In: 1845.480+/-0.424 $\chi^2$/NDF: 711962.7/19

Left Out: 1733.478+/-0.284 $\chi^2$/NDF:901.3/23

Right Out: 1862.324+/-0.394 $\chi^2$/NDF: 391277.5/23

Left In: 1734.810+/-0.286 $\chi^2$/NDF:2175.7/22

Left: 1734.140+/-0.202 $\chi^2$/NDF: 3087.9/46

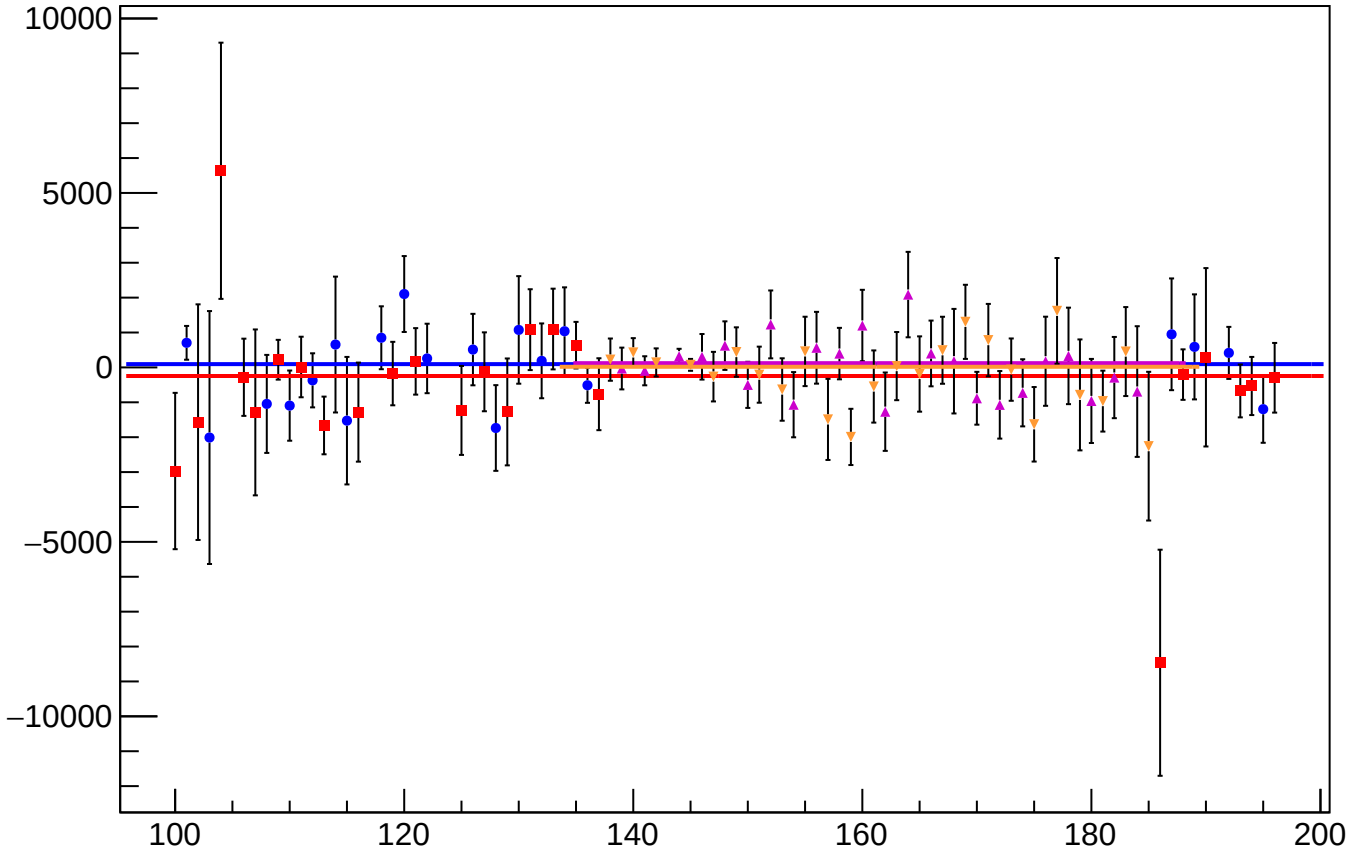
Right: 1854.532+/-0.289 $\chi^2$/NDF: 1104086.8/43

In: 1769.445+/-0.237 $\chi^2$/NDF:760864.1/42

Out: 1777.669+/-0.231 $\chi^2$/NDF:462533.1/47

All: 1773.676+/-0.165 $\chi^2$/NDF: 1224014.6/90

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 94.234+/-211.614 $\chi^2$/NDF: 16.5/19

Left Out: 18.027+/-119.333 $\chi^2$/NDF:19.4/23

Right Out: -246.247+/-209.070 $\chi^2$/NDF: 21.5/23

Left In: 121.705+/-137.150 $\chi^2$/NDF:16.5/22

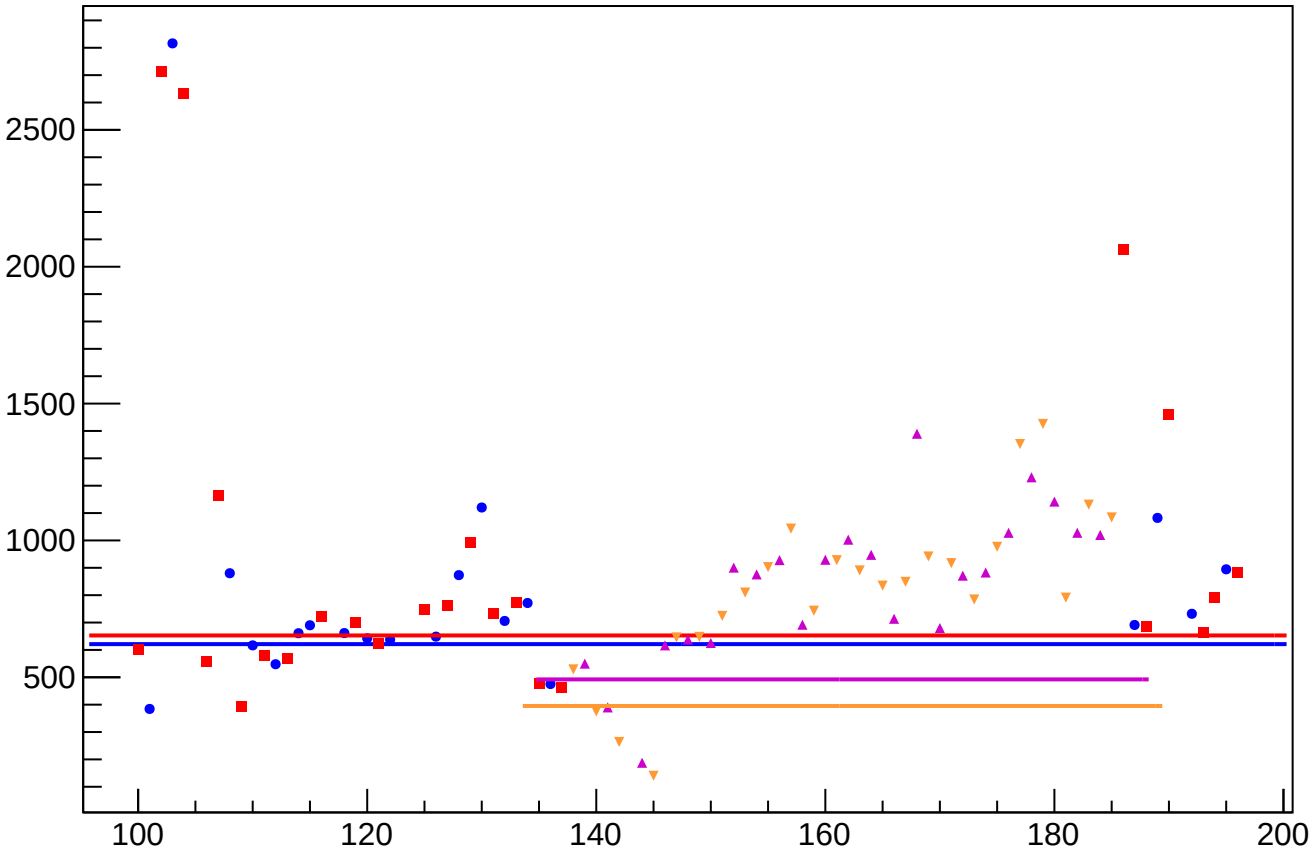
Left: 62.699+/-90.026 $\chi^2$/NDF: 36.2/46

Right: -78.065+/-148.726 $\chi^2$/NDF: 39.3/43

In: 113.579+/-115.092 $\chi^2$/NDF:33.0/42

Out: -46.914+/-103.639 $\chi^2$/NDF:42.1/47

All: 24.953+/-77.015 $\chi^2$/NDF: 76.2/90




Right In: 621.160+/-0.150 $\chi^2$/NDF: 2207196.1/19

Left Out: 395.188+/-0.084 $\chi^2$/NDF:14334419.9/23

Right Out: 652.855+/-0.148 $\chi^2$/NDF: 3015982.5/23

Left In: 492.294+/-0.097 $\chi^2$/NDF:10419498.8/22

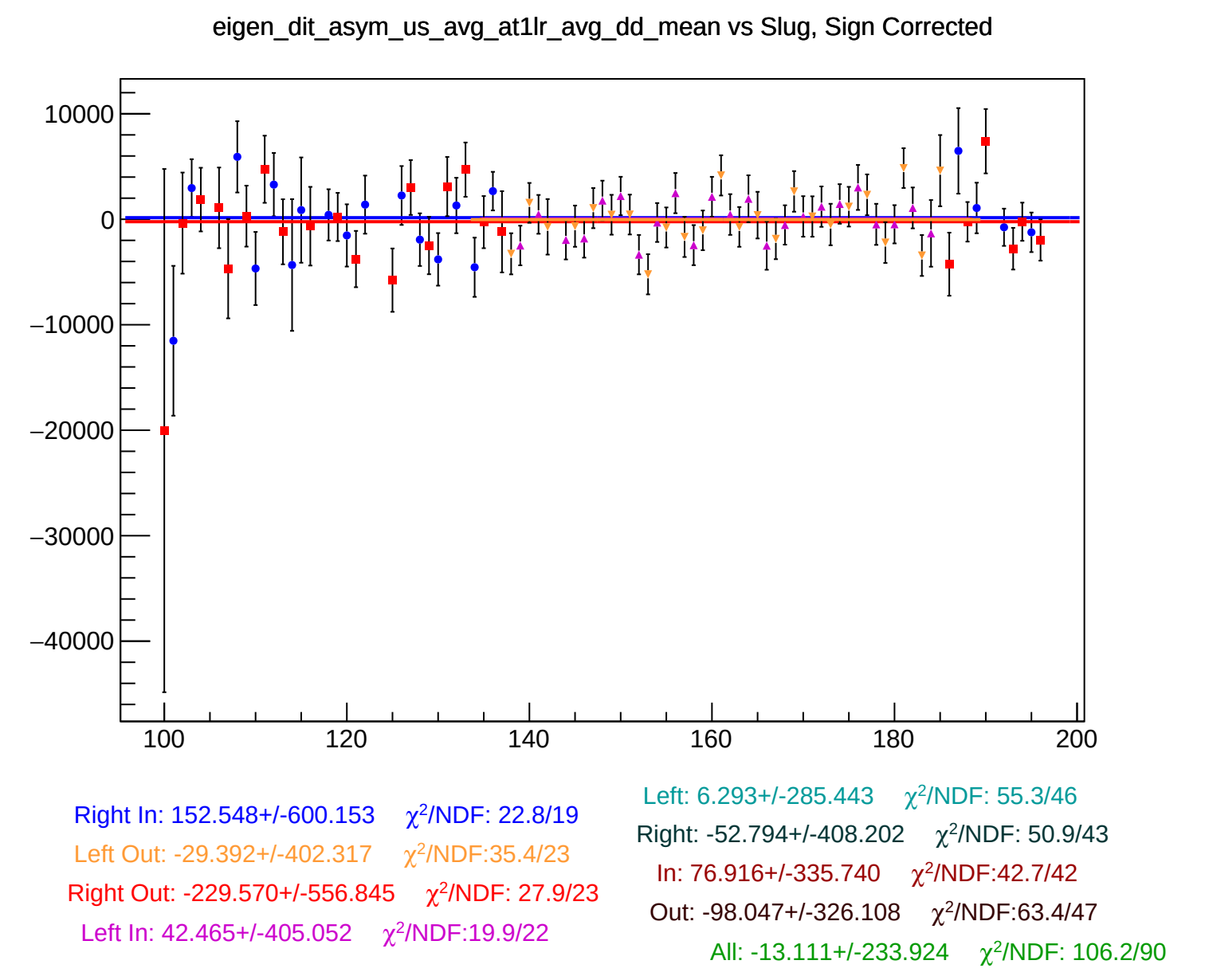
Left: 437.028+/-0.064 $\chi^2$/NDF: 25324537.7/46

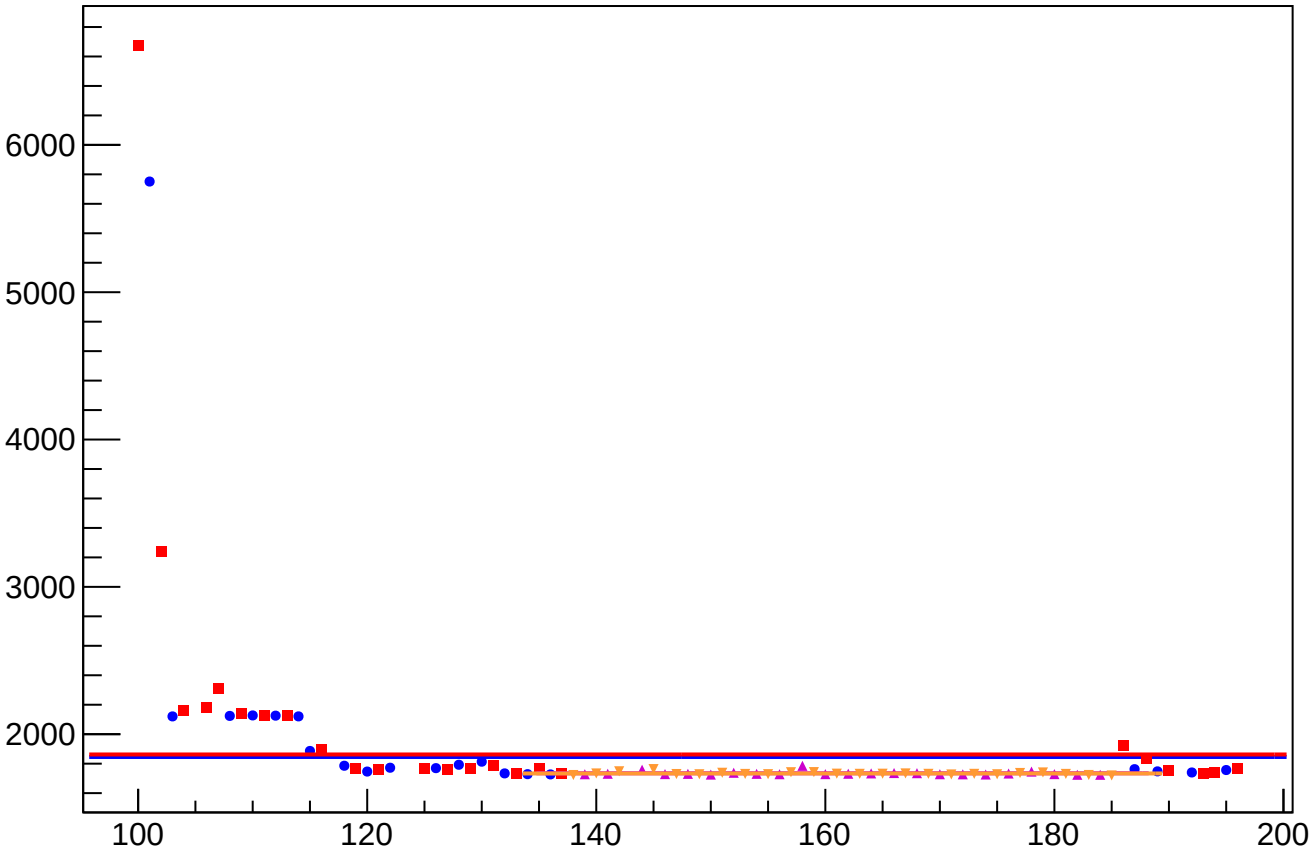
Right: 637.199+/-0.105 $\chi^2$/NDF: 5245883.4/43

In: 530.413+/-0.081 $\chi^2$/NDF:13148985.4/42

Out: 458.505+/-0.073 $\chi^2$/NDF:19641736.1/47

All: 490.704+/-0.054 $\chi^2$/NDF: 33221842.2/90


eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: 152.548+/-600.153 χ²/NDF: 22.8/19
Left Out: -29.392+/-402.317 χ²/NDF:35.4/23
Right Out: -229.570+/-556.845 χ²/NDF: 27.9/23
Left In: 42.465+/-405.052 χ²/NDF:19.9/22
Left: 6.293+/-285.443 χ²/NDF: 55.3/46
Right: -52.794+/-408.202 χ²/NDF: 50.9/43
In: 76.916+/-335.740 χ²/NDF:42.7/42
Out: -98.047+/-326.108 χ²/NDF:63.4/47
All: -13.111+/-233.924 χ²/NDF: 106.2/90




Right In: 1845.480+/-0.424 $\chi^2$/NDF: 711962.4/19

Left Out: 1733.478+/-0.284 $\chi^2$/NDF:901.3/23

Right Out: 1862.324+/-0.394 $\chi^2$/NDF: 391276.6/23

Left In: 1734.810+/-0.286 $\chi^2$/NDF:2175.7/22

Left: 1734.140+/-0.202 $\chi^2$/NDF: 3087.9/46

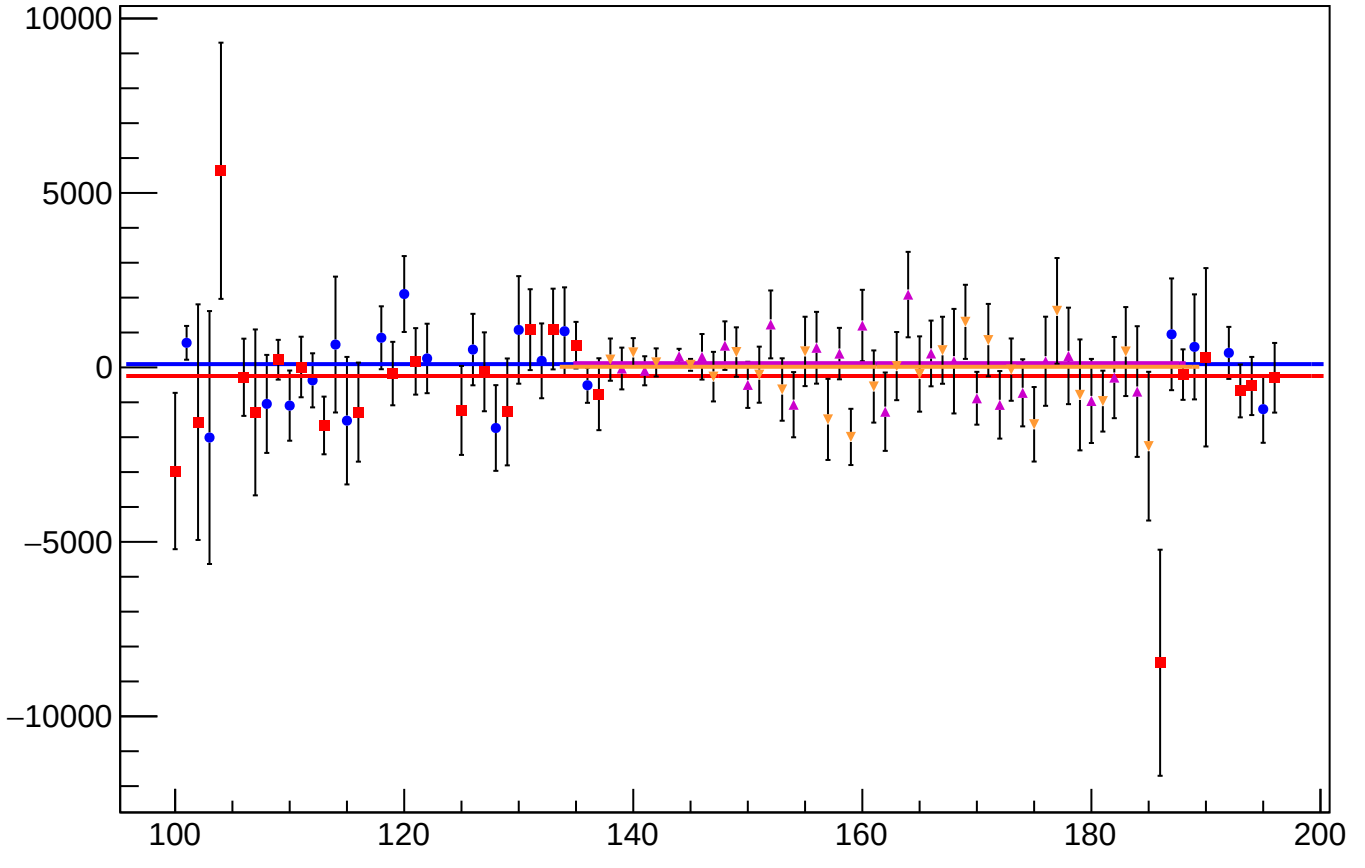
Right: 1854.532+/-0.289 $\chi^2$/NDF: 1104085.5/43

In: 1769.445+/-0.237 $\chi^2$/NDF:760863.7/42

Out: 1777.669+/-0.231 $\chi^2$/NDF:462532.2/47

All: 1773.676+/-0.165 $\chi^2$/NDF: 1224013.3/90

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 94.232+/-211.613 $\chi^2$/NDF: 16.5/19

Left Out: 18.026+/-119.333 $\chi^2$/NDF:19.4/23

Right Out: -246.244+/-209.069 $\chi^2$/NDF: 21.5/23

Left In: 121.706+/-137.150 $\chi^2$/NDF:16.5/22

Left: 62.698+/-90.026 $\chi^2$/NDF: 36.2/46

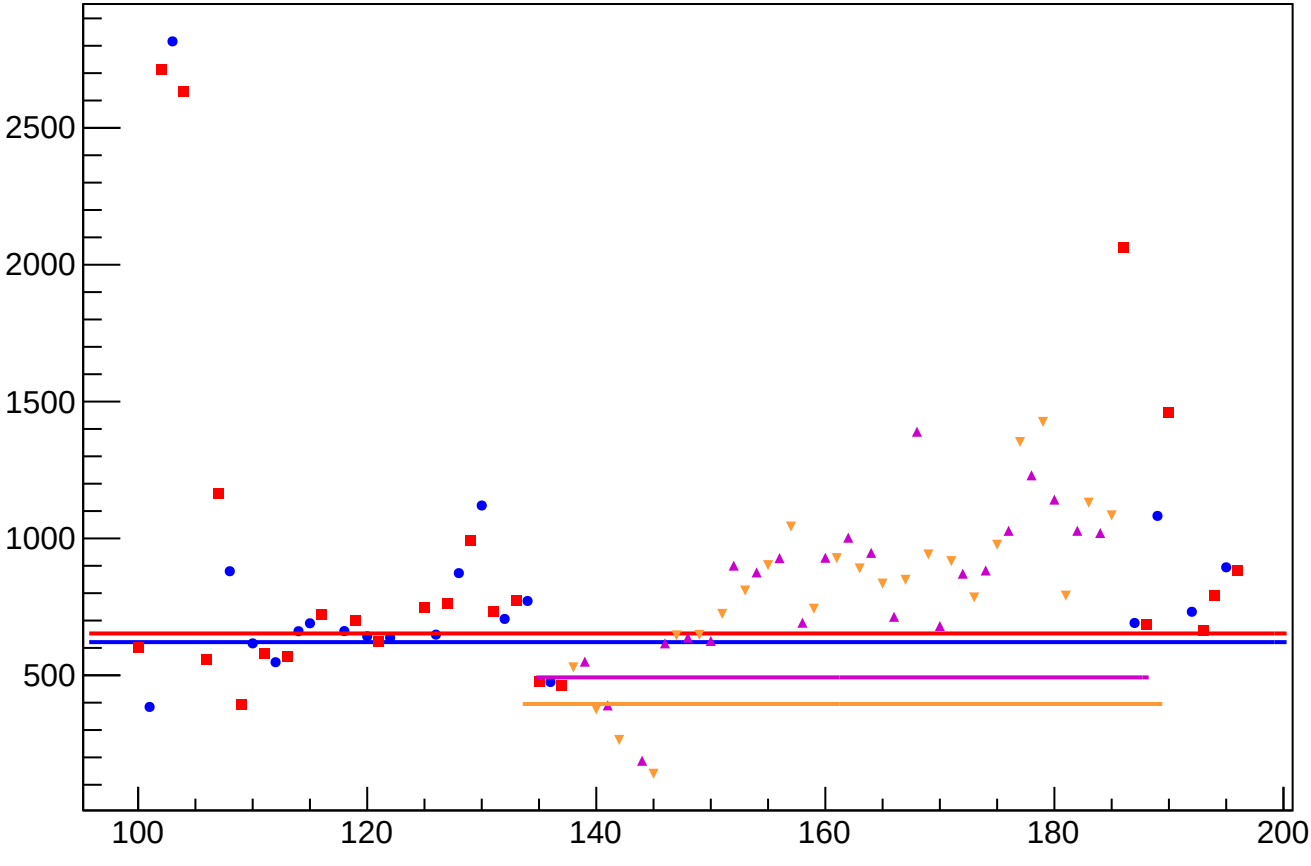
Right: -78.065+/-148.726 $\chi^2$/NDF: 39.3/43

In: 113.579+/-115.092 $\chi^2$/NDF:33.0/42

Out: -46.915+/-103.639 $\chi^2$/NDF:42.1/47

All: 24.952+/-77.015 $\chi^2$/NDF: 76.2/90

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 621.158+/-0.150 $\chi^2$/NDF: 2207189.5/19

Left Out: 395.188+/-0.084 $\chi^2$/NDF:14334464.6/23

Right Out: 652.851+/-0.148 $\chi^2$/NDF: 3016003.8/23

Left In: 492.295+/-0.097 $\chi^2$/NDF:10419523.2/22

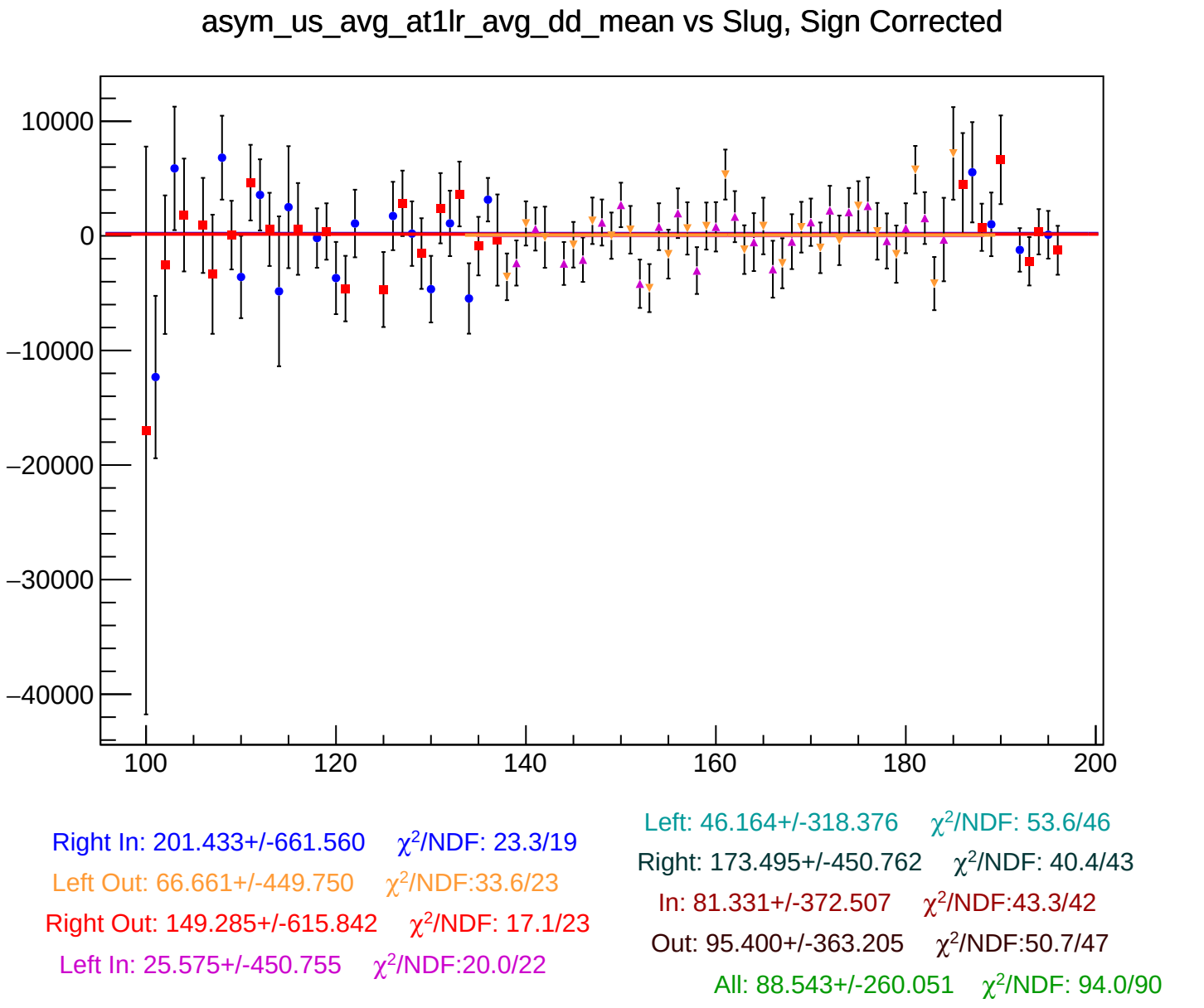
Left: 437.028+/-0.064 $\chi^2$/NDF: 25324612.8/46

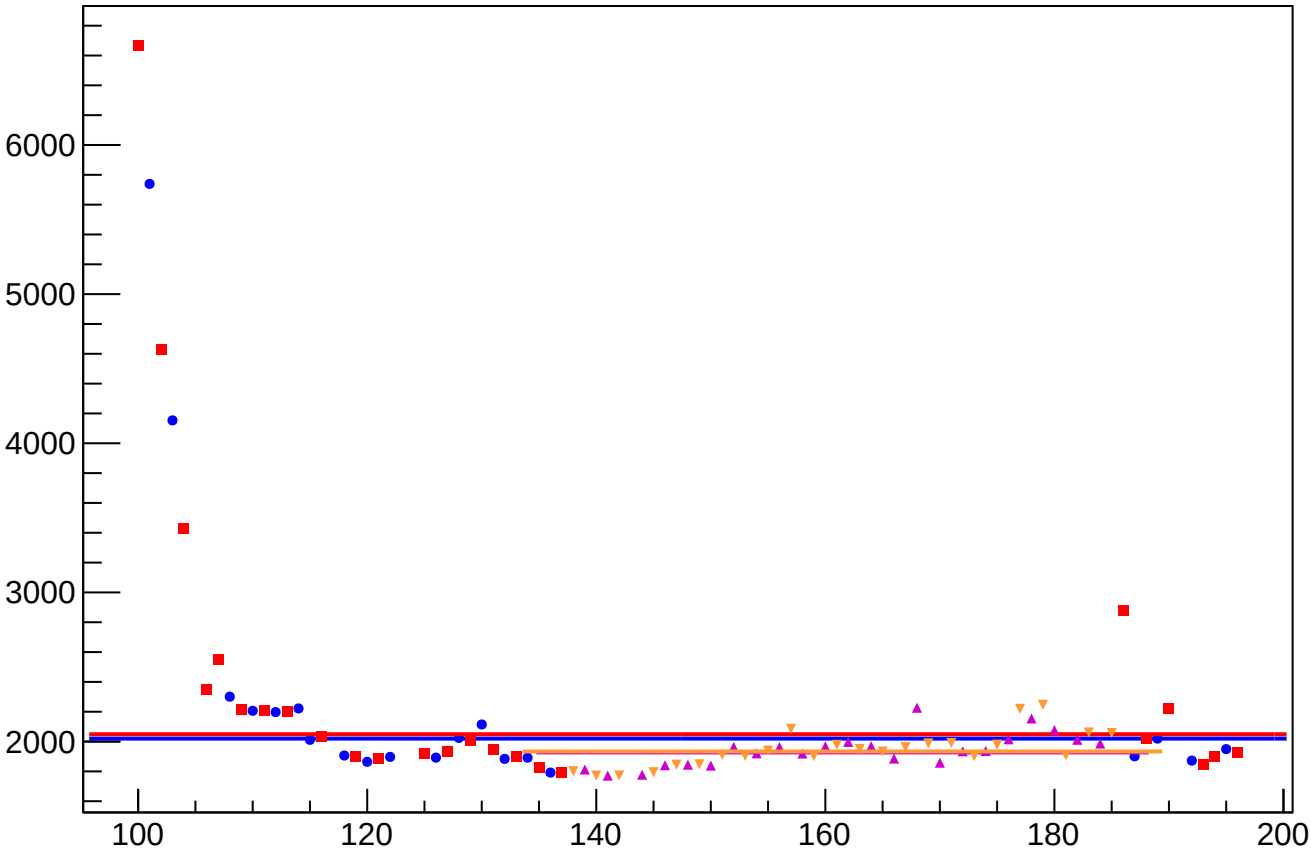
Right: 637.196+/-0.105 $\chi^2$/NDF: 5245895.3/43

In: 530.413+/-0.081 $\chi^2$/NDF:13148982.6/42

Out: 458.505+/-0.073 $\chi^2$/NDF:19641744.3/47

All: 490.704+/-0.054 $\chi^2$/NDF: 33221854.3/90


asym_us_avg_at1lr_avg_dd_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: 201.433+/-661.560 χ²/NDF: 23.3/19
Left Out: 66.661+/-449.750 χ²/NDF:33.6/23
Right Out: 149.285+/-615.842 χ²/NDF: 17.1/23
Left In: 25.575+/-450.755 χ²/NDF:20.0/22
Left: 46.164+/-318.376 χ²/NDF: 53.6/46
Right: 173.495+/-450.762 χ²/NDF: 40.4/43
In: 81.331+/-372.507 χ²/NDF:43.3/42
Out: 95.400+/-363.205 χ²/NDF:50.7/47
All: 88.543+/-260.051 χ²/NDF: 94.0/90




Right In: 2019.808+/-0.468 $\chi^2$/NDF: 960724.6/19

Left Out: 1933.804+/-0.318 $\chi^2$/NDF:128531.8/23

Right Out: 2049.249+/-0.435 $\chi^2$/NDF: 795619.7/23

Left In: 1927.125+/-0.319 $\chi^2$/NDF:116436.1/22

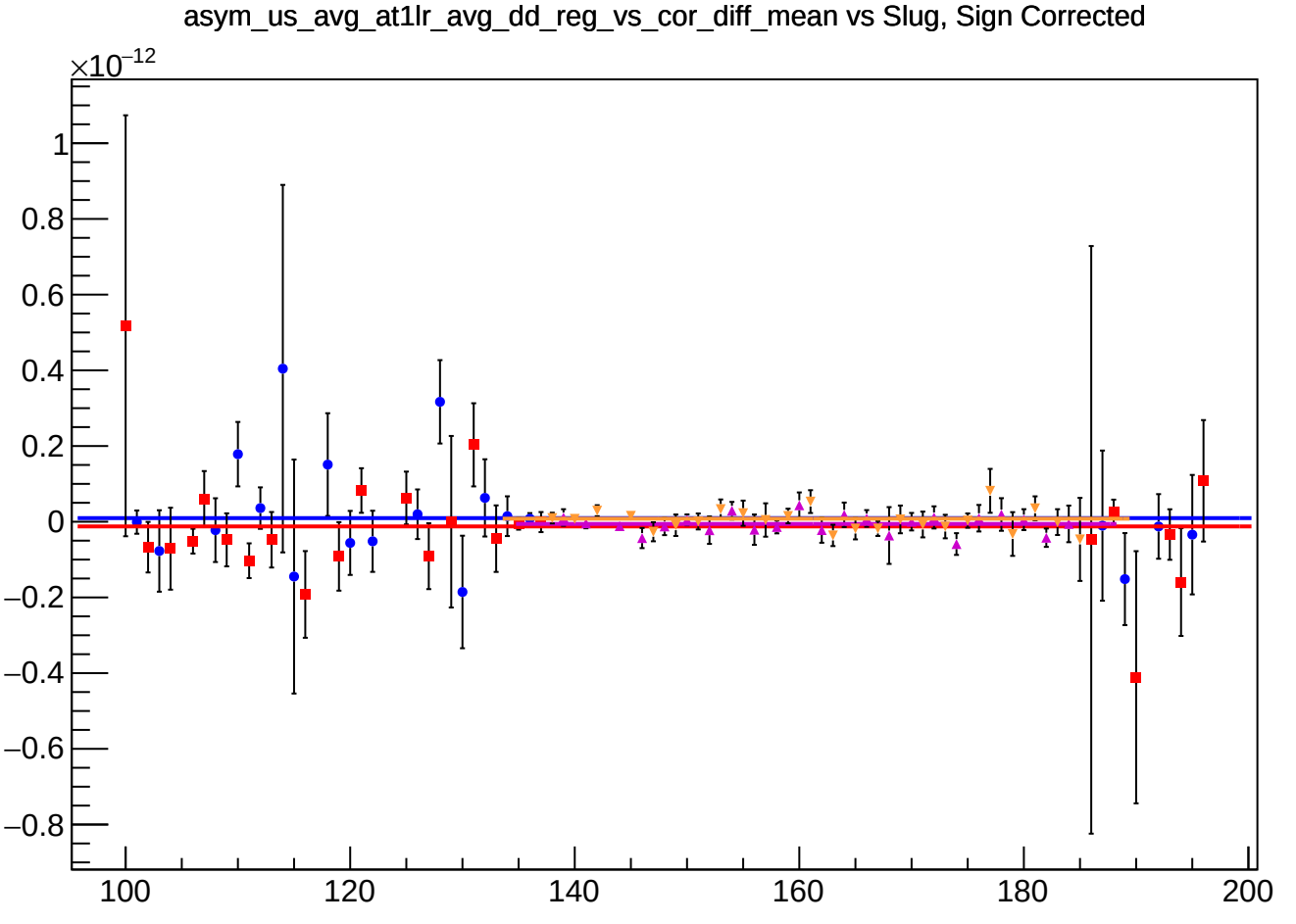
Left: 1930.472+/-0.225 $\chi^2$/NDF: 245187.9/46

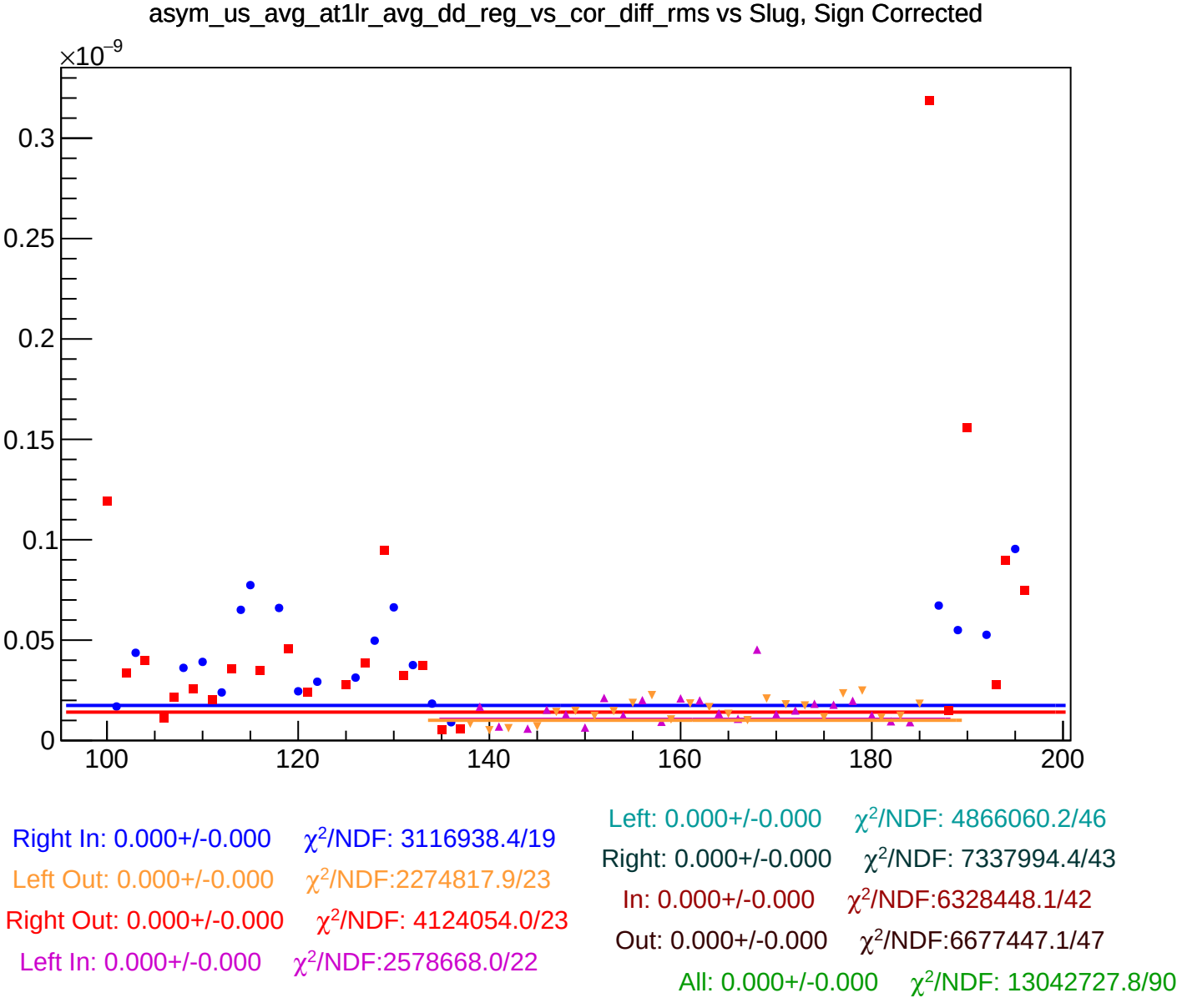
Right: 2035.581+/-0.319 $\chi^2$/NDF: 1758466.3/43

In: 1956.510+/-0.263 $\chi^2$/NDF:1103969.5/42

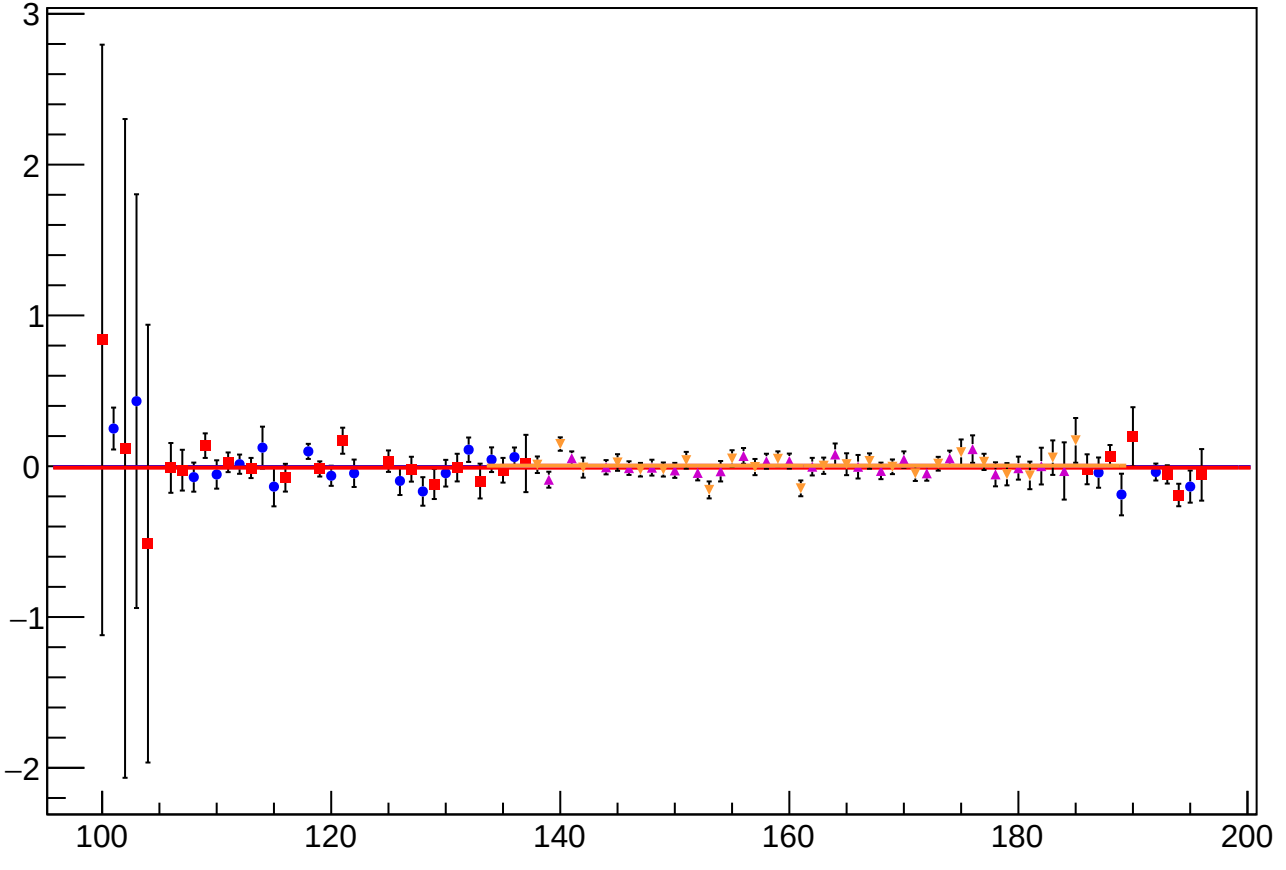
Out: 1973.959+/-0.257 $\chi^2$/NDF:969986.6/47

All: 1965.455+/-0.184 $\chi^2$/NDF: 2076205.8/90


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
−0.6
−0.8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 20.0/19
Left Out: 0.000+/-0.000 χ²/NDF:17.3/23
Right Out: -0.000+/-0.000 χ²/NDF: 25.5/23
Left In: -0.000+/-0.000 χ²/NDF:16.7/22
Left: 0.000+/-0.000 χ²/NDF: 38.9/46
Right: -0.000+/-0.000 χ²/NDF: 47.6/43
In: -0.000+/-0.000 χ²/NDF:38.3/42
Out: 0.000+/-0.000 χ²/NDF:46.3/47
All: 0.000+/-0.000 χ²/NDF: 86.7/90


asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10^−9
0.3
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3116938.4/19
Left Out: 0.000+/-0.000 χ²/NDF:2274817.9/23
Right Out: 0.000+/-0.000 χ²/NDF: 4124054.0/23
Left In: 0.000+/-0.000 χ²/NDF:2578668.0/22
Left: 0.000+/-0.000 χ²/NDF: 4866060.2/46
Right: 0.000+/-0.000 χ²/NDF: 7337994.4/43
In: 0.000+/-0.000 χ²/NDF:6328448.1/42
Out: 0.000+/-0.000 χ²/NDF:6677447.1/47
All: 0.000+/-0.000 χ²/NDF: 13042727.8/90

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 22.7/19

Left Out: 0.004+/-0.012 $\chi^2$/NDF:35.0/23

Right Out: -0.009+/-0.018 $\chi^2$/NDF: 19.5/23

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.5/22

Left: 0.003+/-0.008 $\chi^2$/NDF: 49.5/46

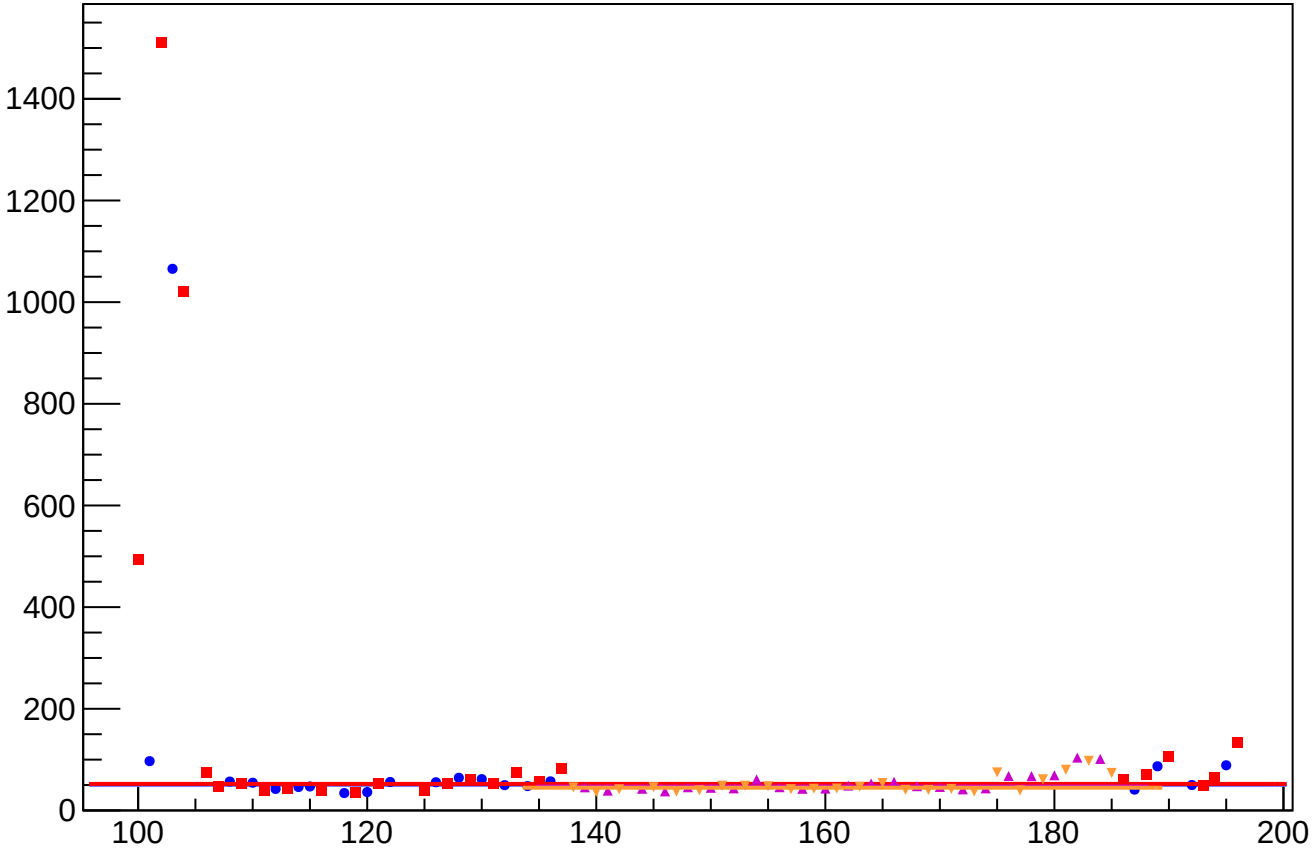
Right: -0.007+/-0.013 $\chi^2$/NDF: 42.2/43

In: 0.000+/-0.010 $\chi^2$/NDF:37.3/42

Out: 0.000+/-0.010 $\chi^2$/NDF:54.9/47

All: 0.000+/-0.007 $\chi^2$/NDF: 92.2/90

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 51.042+/-0.013 $\chi^2$/NDF: 2197610.9/19

Left Out: 44.733+/-0.008 $\chi^2$/NDF:1481436.4/23

Right Out: 52.203+/-0.013 $\chi^2$/NDF: 3308453.1/23

Left In: 47.033+/-0.008 $\chi^2$/NDF:1383050.4/22

Left: 45.841+/-0.006 $\chi^2$/NDF: 2902954.4/46

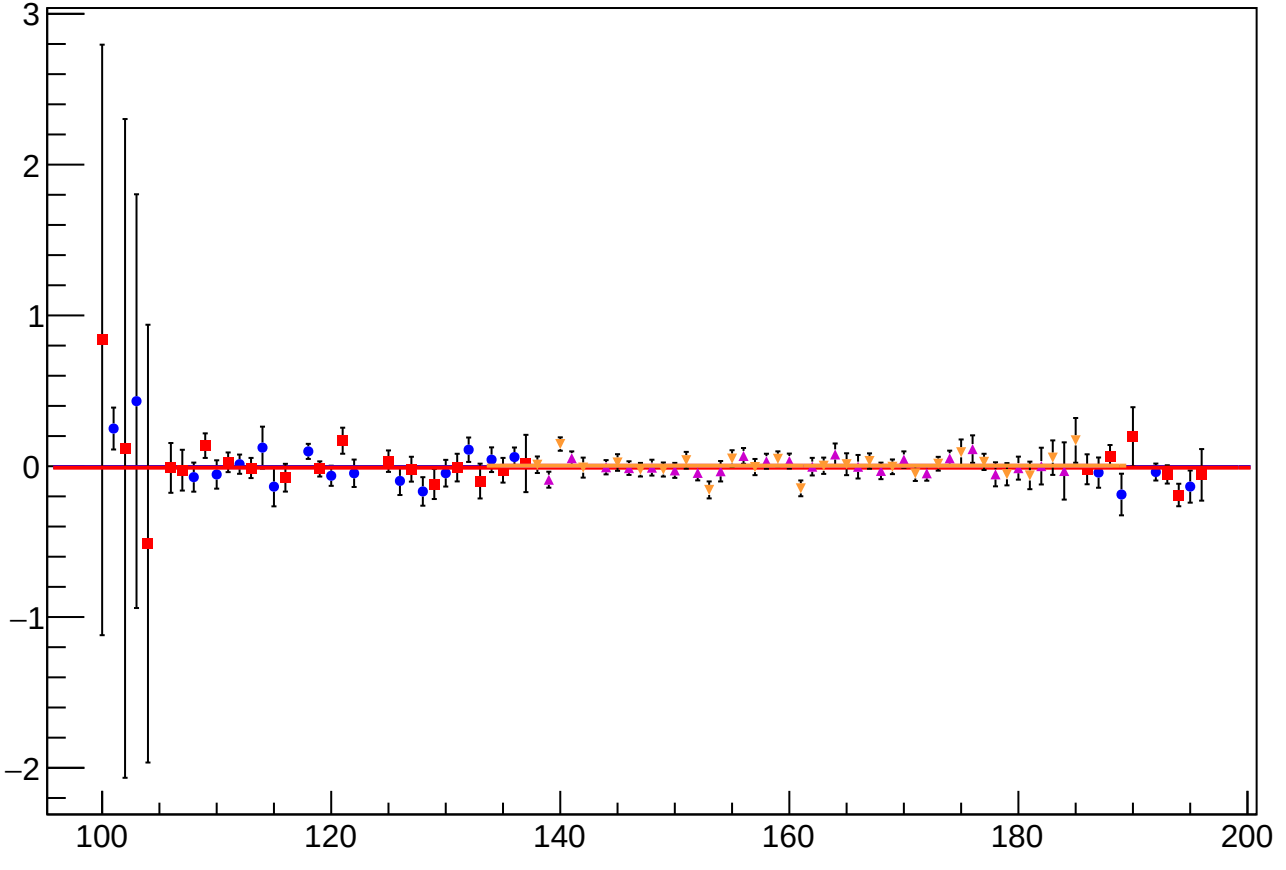
Right: 51.635+/-0.009 $\chi^2$/NDF: 5509969.9/43

In: 48.186+/-0.007 $\chi^2$/NDF:3645529.2/42

Out: 46.834+/-0.007 $\chi^2$/NDF:5026991.1/47

All: 47.488+/-0.005 $\chi^2$/NDF: 8691115.2/90

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 22.7/19

Left Out: 0.004+/-0.012 $\chi^2$/NDF:35.0/23

Right Out: -0.009+/-0.018 $\chi^2$/NDF: 19.5/23

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.5/22

Left: 0.003+/-0.008 $\chi^2$/NDF: 49.5/46

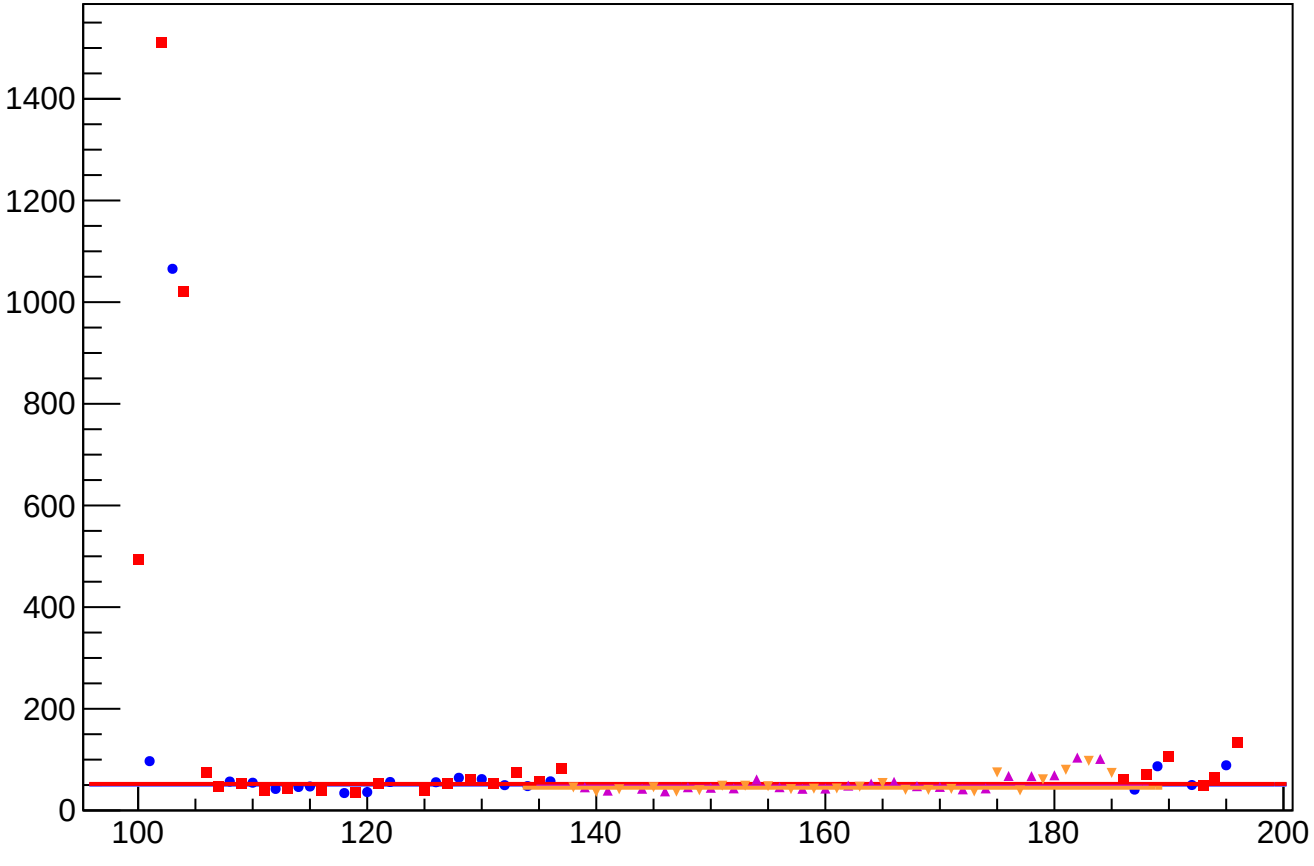
Right: -0.007+/-0.013 $\chi^2$/NDF: 42.2/43

In: 0.000+/-0.010 $\chi^2$/NDF:37.3/42

Out: 0.000+/-0.010 $\chi^2$/NDF:54.9/47

All: 0.000+/-0.007 $\chi^2$/NDF: 92.2/90

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 51.042+/-0.013 $\chi^2$/NDF: 2197610.9/19

Left Out: 44.733+/-0.008 $\chi^2$/NDF:1481436.4/23

Right Out: 52.203+/-0.013 $\chi^2$/NDF: 3308453.1/23

Left In: 47.033+/-0.008 $\chi^2$/NDF:1383050.4/22

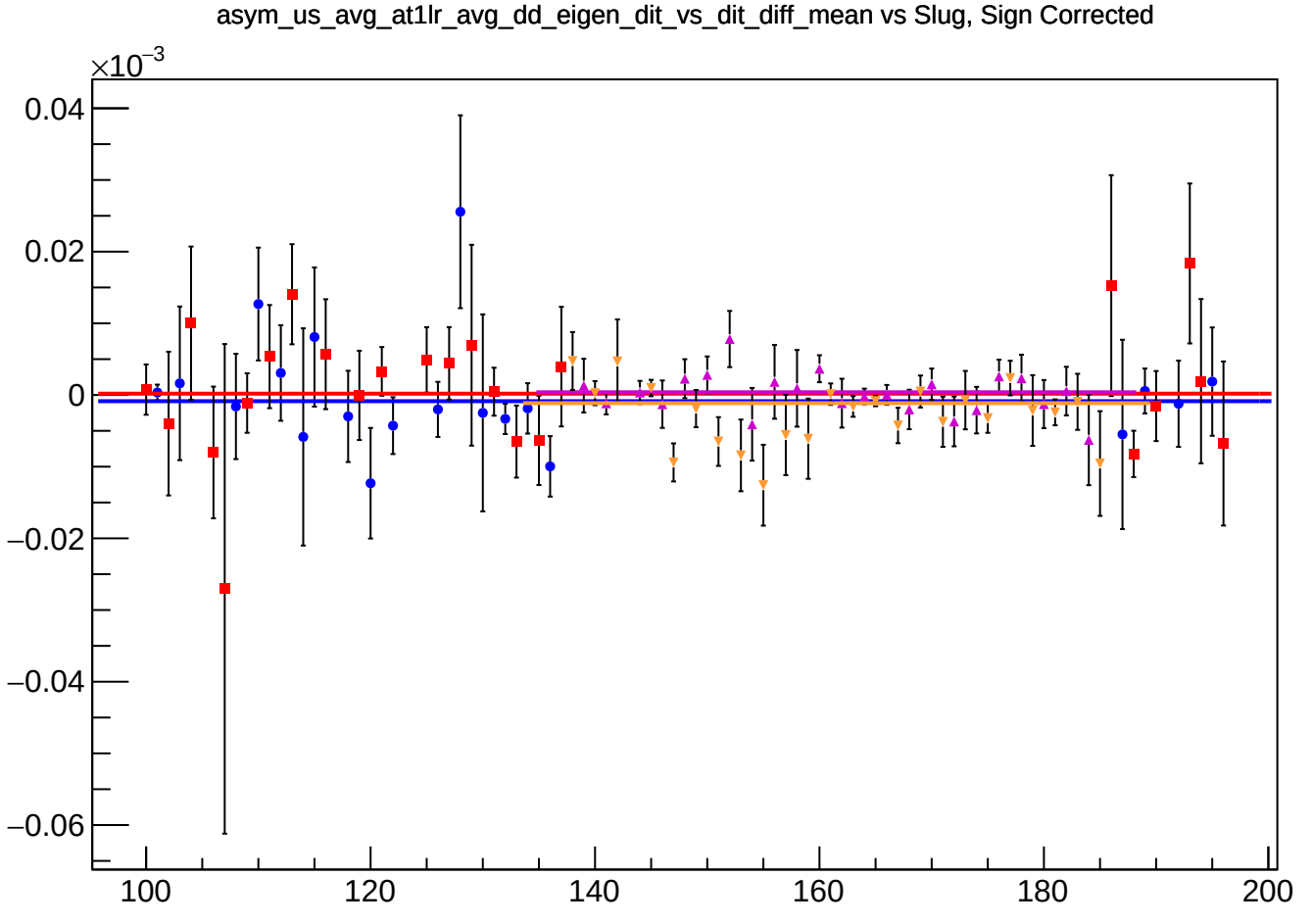
Left: 45.841+/-0.006 $\chi^2$/NDF: 2902954.4/46

Right: 51.635+/-0.009 $\chi^2$/NDF: 5509969.9/43

In: 48.186+/-0.007 $\chi^2$/NDF:3645529.2/42

Out: 46.834+/-0.007 $\chi^2$/NDF:5026991.1/47

All: 47.488+/-0.005 $\chi^2$/NDF: 8691115.2/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:35.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 24.4/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.3/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 57.8/46

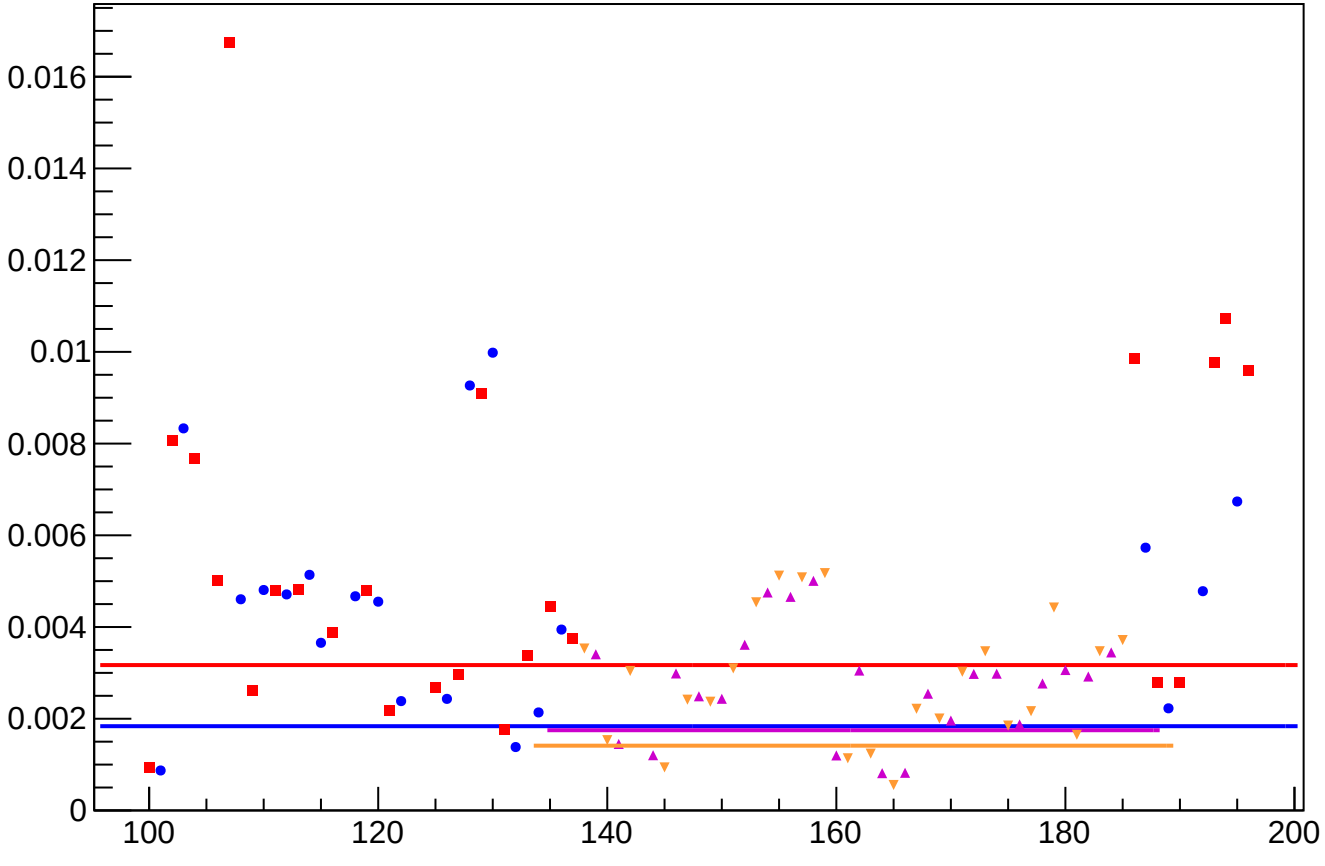
Right: -0.000+/-0.000 $\chi^2$/NDF: 44.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:37.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:61.3/47

All: -0.000+/-0.000 $\chi^2$/NDF: 101.8/90

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: 7556884.2/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11586658.8/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6051983.6/23

Left In: 0.002+/-0.000 $\chi^2$/NDF:8238945.3/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 20381149.0/46

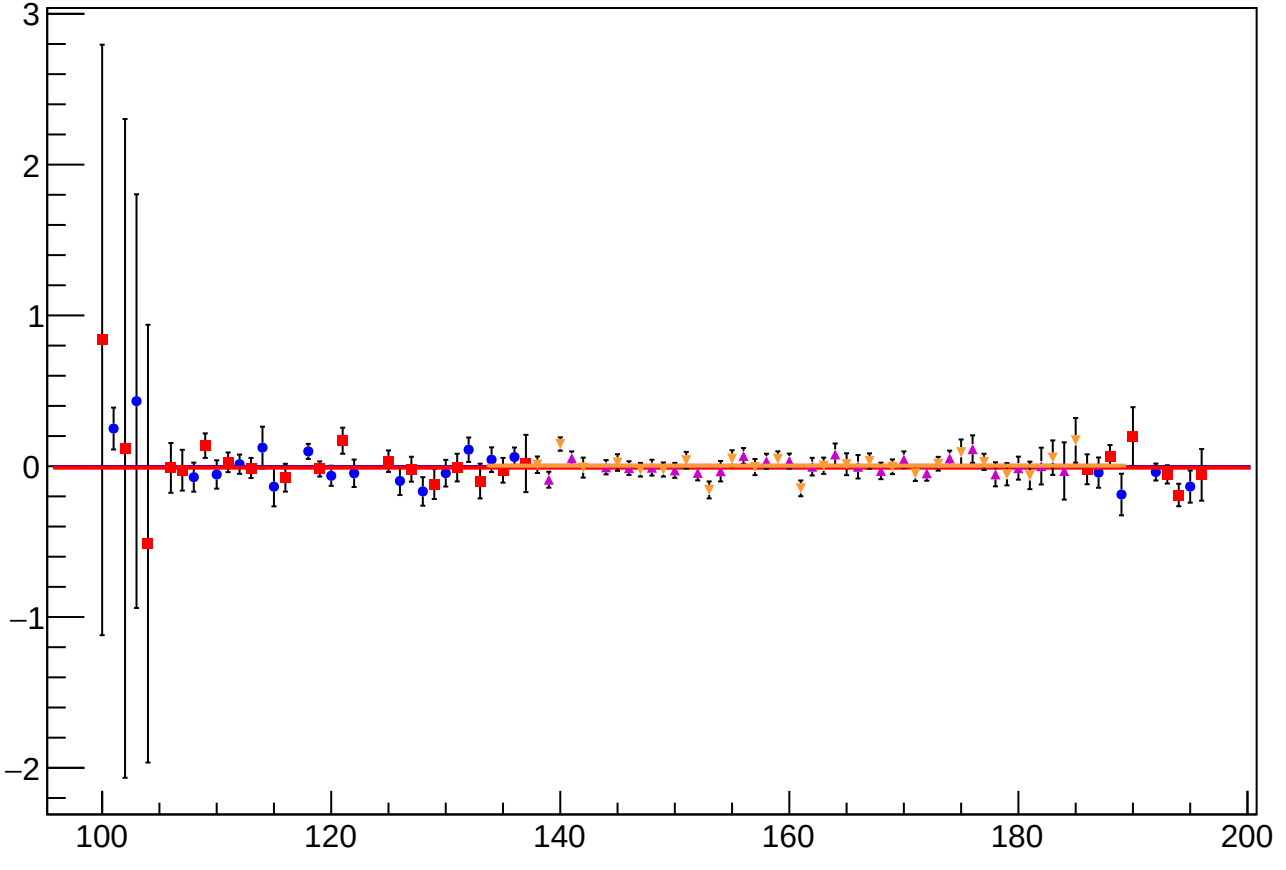
Right: 0.002+/-0.000 $\chi^2$/NDF: 15451945.8/43

In: 0.002+/-0.000 $\chi^2$/NDF:15813700.5/42

Out: 0.002+/-0.000 $\chi^2$/NDF:21834063.9/47

All: 0.002+/-0.000 $\chi^2$/NDF: 37808223.0/90

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 22.7/19

Left Out: 0.004+/-0.012 $\chi^2$/NDF:35.0/23

Right Out: -0.009+/-0.018 $\chi^2$/NDF: 19.5/23

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.5/22

Left: 0.003+/-0.008 $\chi^2$/NDF: 49.5/46

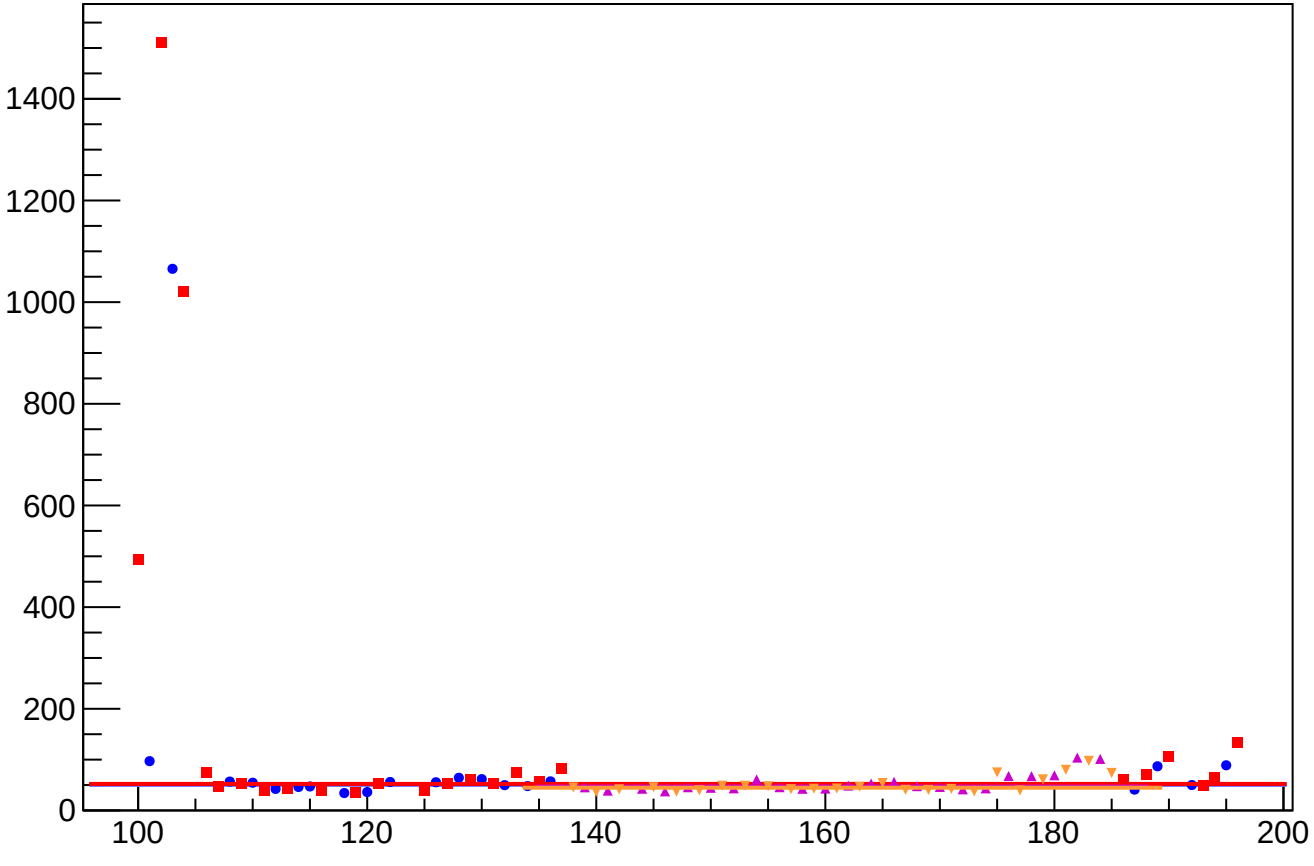
Right: -0.007+/-0.013 $\chi^2$/NDF: 42.2/43

In: 0.000+/-0.010 $\chi^2$/NDF:37.3/42

Out: 0.000+/-0.010 $\chi^2$/NDF:54.9/47

All: 0.000+/-0.007 $\chi^2$/NDF: 92.2/90

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 51.041+/-0.013 $\chi^2$/NDF: 2197553.6/19

Left Out: 44.733+/-0.008 $\chi^2$/NDF:1481436.0/23

Right Out: 52.203+/-0.013 $\chi^2$/NDF: 3308511.2/23

Left In: 47.033+/-0.008 $\chi^2$/NDF:1383121.1/22

Left: 45.840+/-0.006 $\chi^2$/NDF: 2903011.0/46

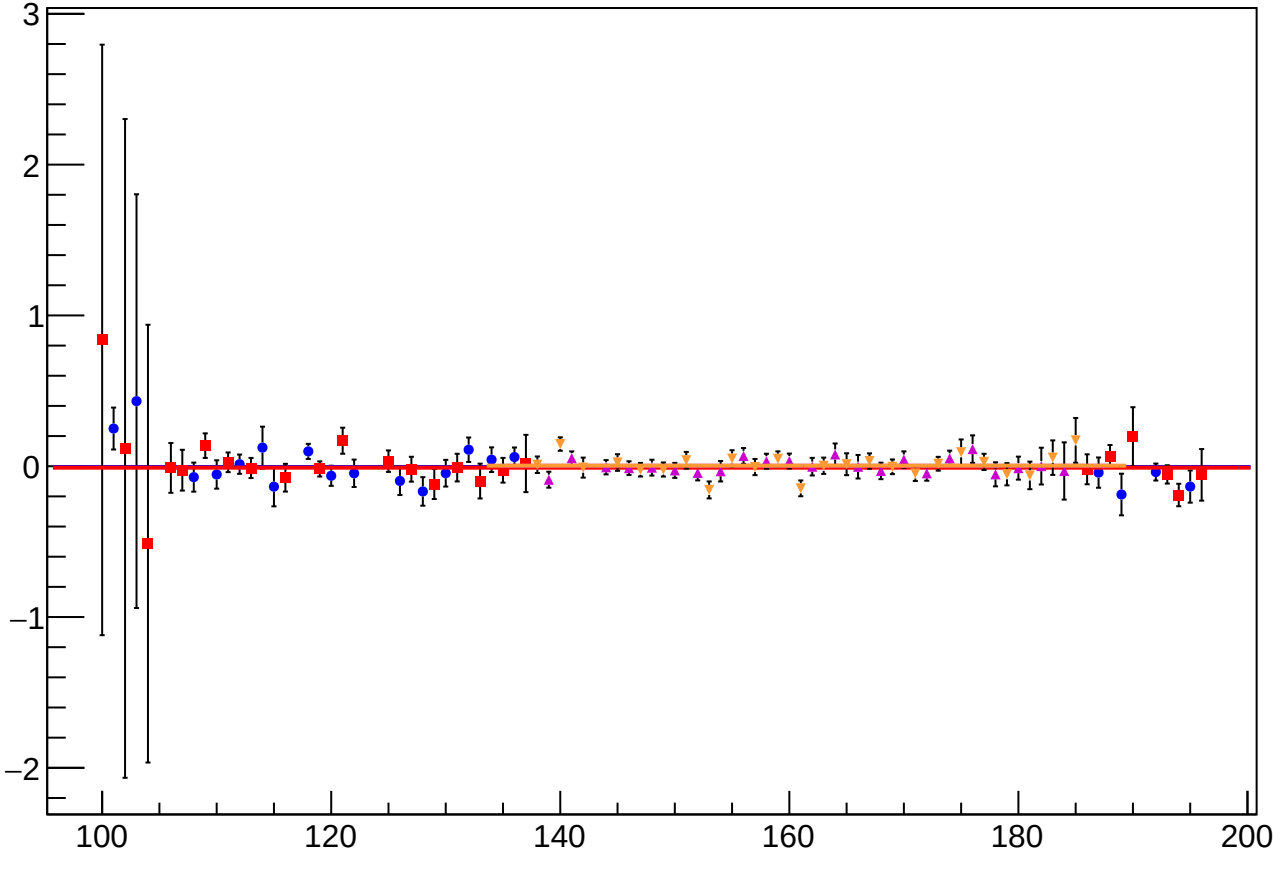
Right: 51.634+/-0.009 $\chi^2$/NDF: 5509967.2/43

In: 48.186+/-0.007 $\chi^2$/NDF:3645539.9/42

Out: 46.834+/-0.007 $\chi^2$/NDF:5026985.8/47

All: 47.488+/-0.005 $\chi^2$/NDF: 8691115.7/90

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.019 $\chi^2$/NDF: 22.7/19

Left Out: 0.004+/-0.012 $\chi^2$/NDF:35.0/23

Right Out: -0.009+/-0.018 $\chi^2$/NDF: 19.5/23

Left In: 0.003+/-0.012 $\chi^2$/NDF:14.5/22

Left: 0.003+/-0.008 $\chi^2$/NDF: 49.5/46

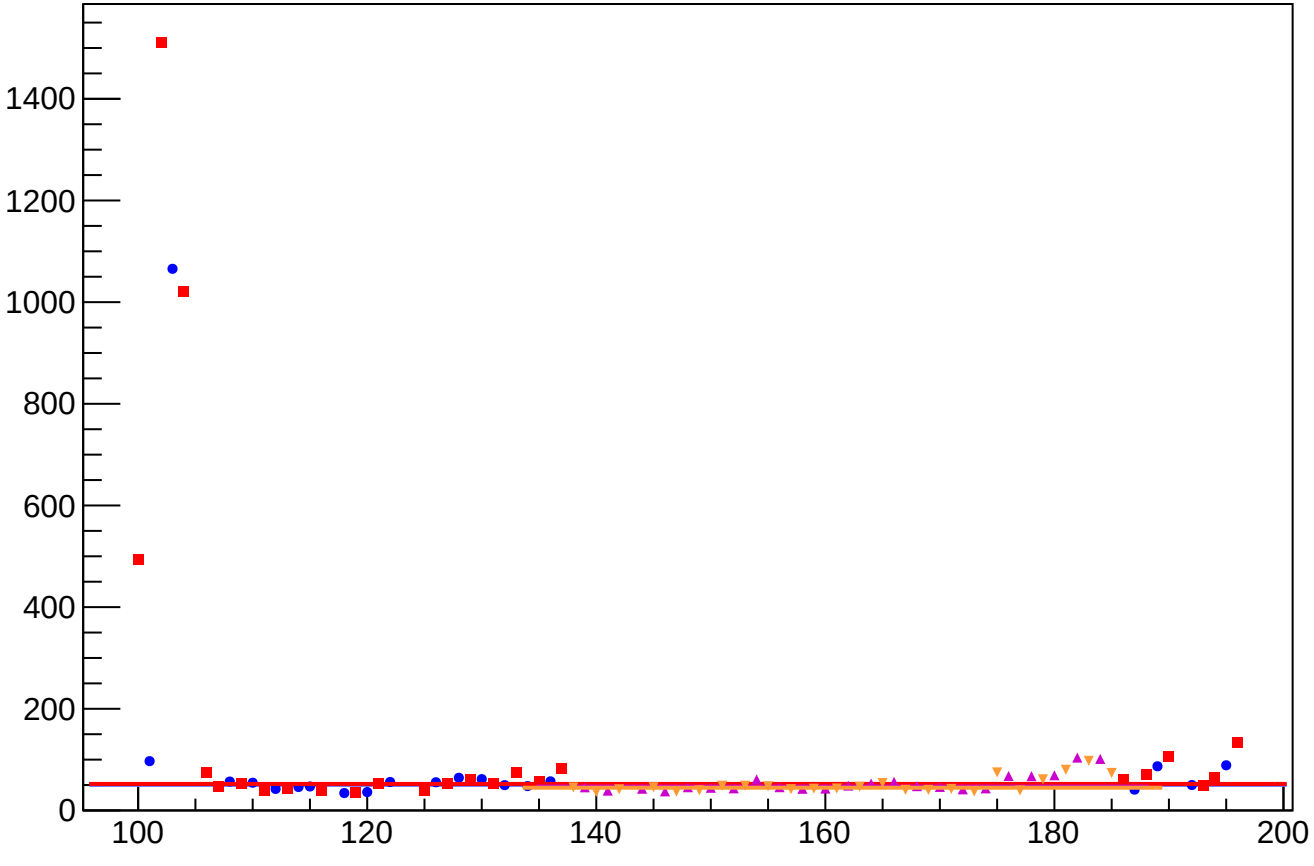
Right: -0.007+/-0.013 $\chi^2$/NDF: 42.2/43

In: 0.000+/-0.010 $\chi^2$/NDF:37.3/42

Out: 0.000+/-0.010 $\chi^2$/NDF:54.9/47

All: 0.000+/-0.007 $\chi^2$/NDF: 92.2/90

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 51.041+/-0.013 $\chi^2$/NDF: 2197553.6/19

Left Out: 44.733+/-0.008 $\chi^2$/NDF:1481436.0/23

Right Out: 52.203+/-0.013 $\chi^2$/NDF: 3308511.2/23

Left In: 47.033+/-0.008 $\chi^2$/NDF:1383121.1/22

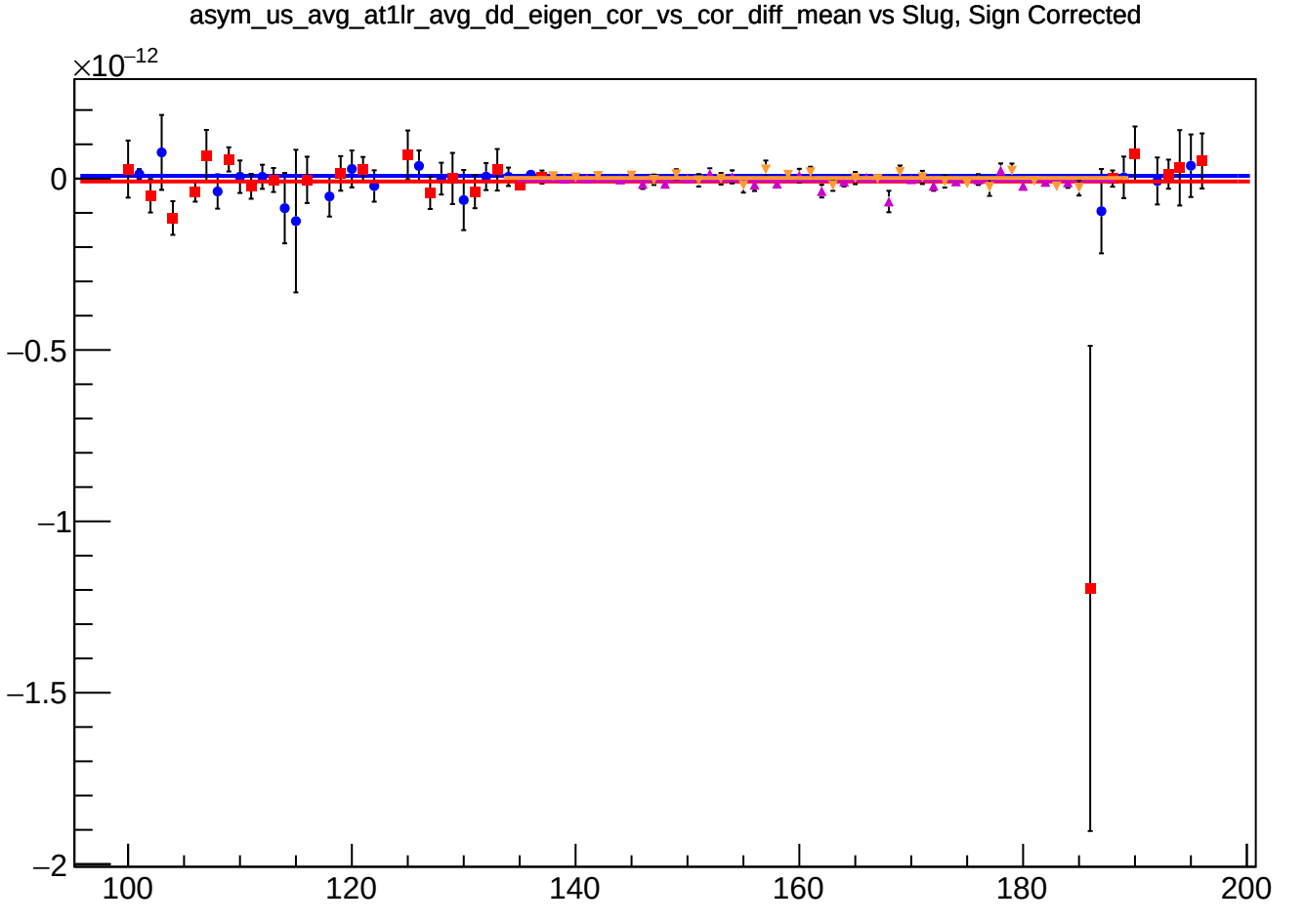
Left: 45.840+/-0.006 $\chi^2$/NDF: 2903011.0/46

Right: 51.634+/-0.009 $\chi^2$/NDF: 5509967.2/43

In: 48.186+/-0.007 $\chi^2$/NDF:3645539.9/42

Out: 46.834+/-0.007 $\chi^2$/NDF:5026985.8/47

All: 47.488+/-0.005 $\chi^2$/NDF: 8691115.7/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20.6/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.2/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.9/22

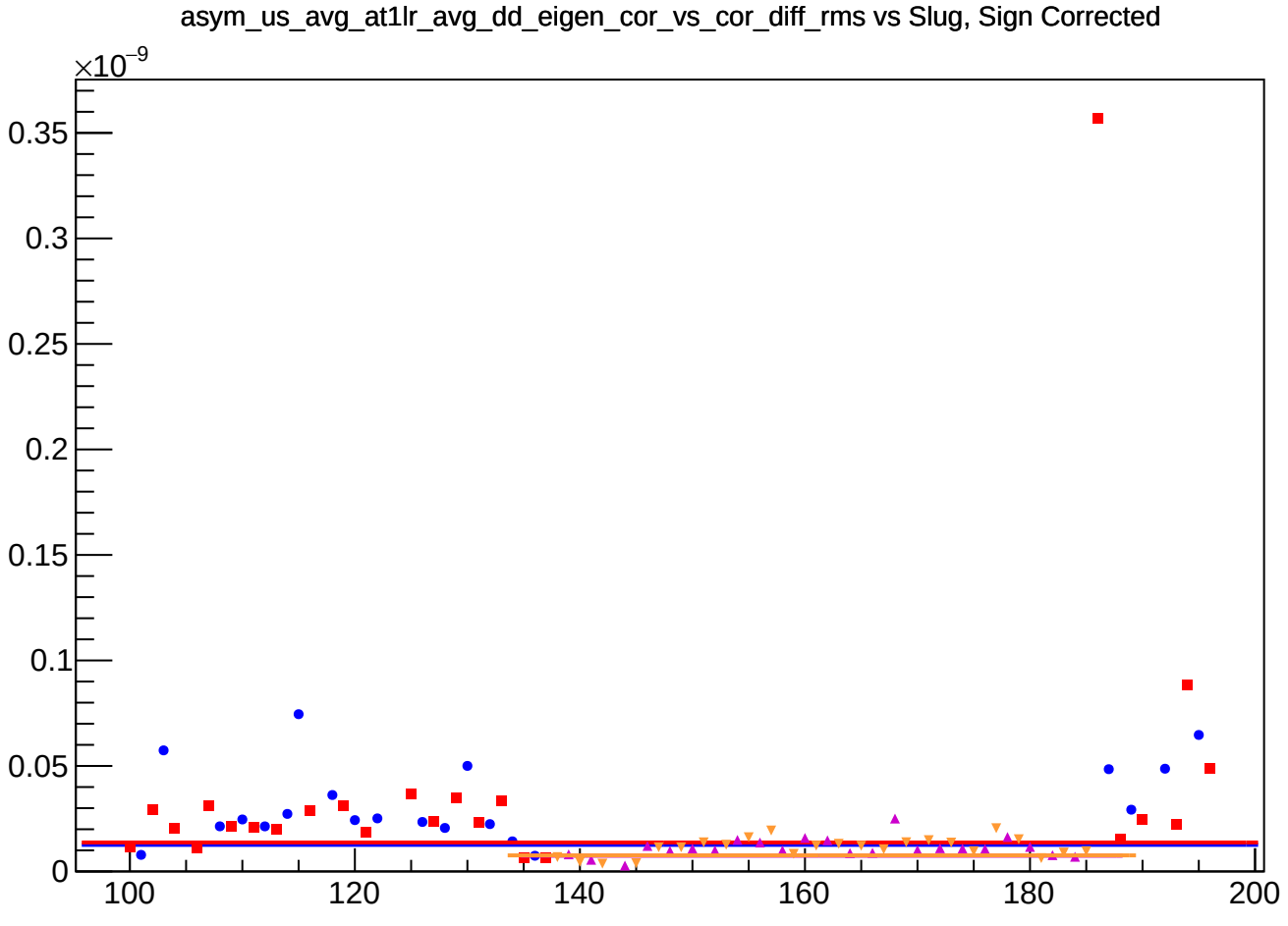
Left: -0.000+/-0.000 $\chi^2$/NDF: 42.7/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.5/43

In: -0.000+/-0.000 $\chi^2$/NDF:27.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:43.9/47

All: -0.000+/-0.000 $\chi^2$/NDF: 73.4/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4469391.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:5568430.3/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4871063.7/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:5978033.2/22

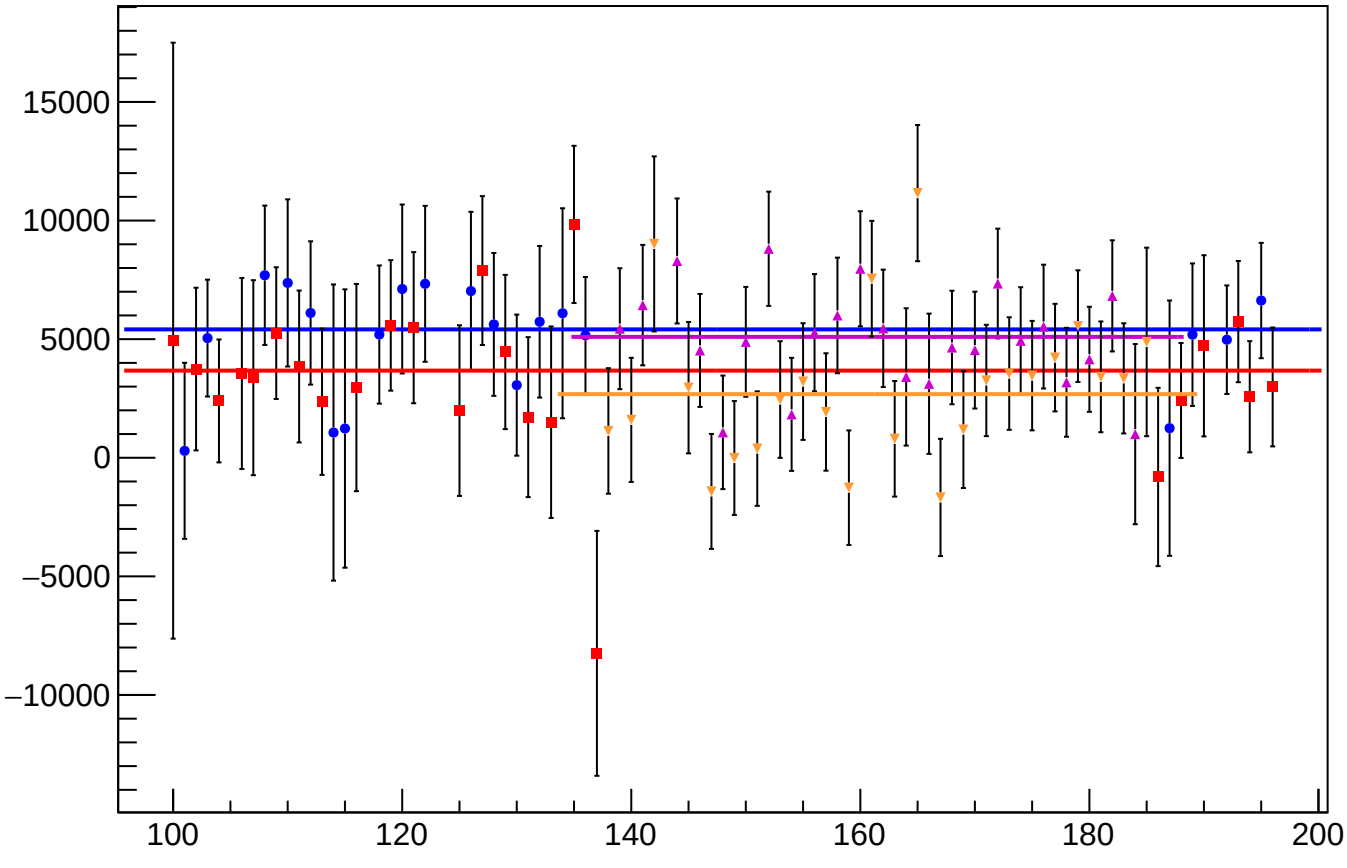
Left: 0.000+/-0.000 $\chi^2$/NDF: 11550721.9/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 9369400.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:11527487.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11890649.7/47

All: 0.000+/-0.000 $\chi^2$/NDF: 23429919.2/90




Right In: 5412.095+/-703.583 $\chi^2$/NDF: 6.3/19

Left Out: 2682.870+/-512.020 $\chi^2$/NDF:30.8/23

Right Out: 3674.446+/-654.857 $\chi^2$/NDF: 15.8/23

Left In: 5096.427+/-516.232 $\chi^2$/NDF:14.9/22

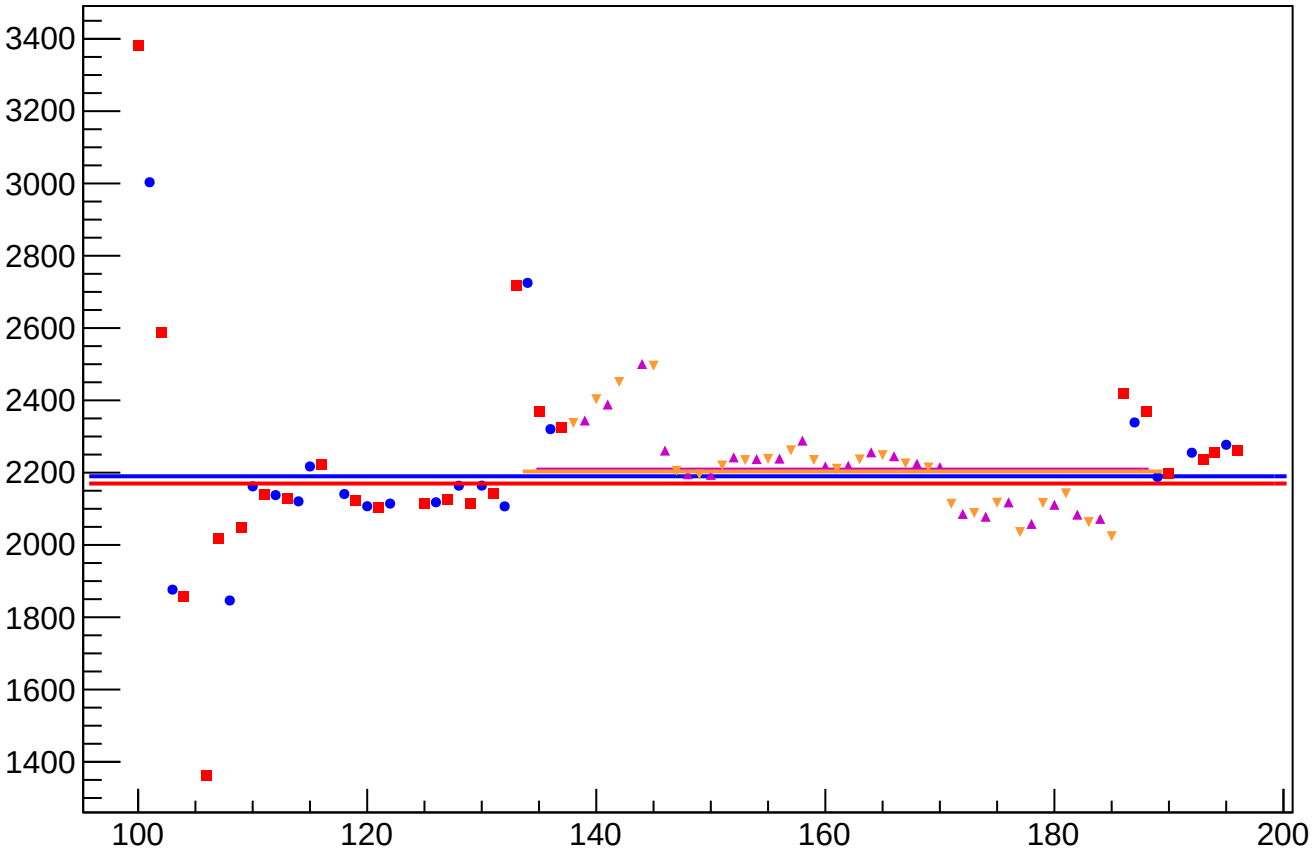
Left: 3879.762+/-363.533 $\chi^2$/NDF: 56.8/46

Right: 4481.023+/-479.355 $\chi^2$/NDF: 25.3/43

In: 5206.895+/-416.216 $\chi^2$/NDF:21.3/42

Out: 3059.072+/-403.361 $\chi^2$/NDF:48.1/47

All: 4099.304+/-289.657 $\chi^2$/NDF: 83.1/90




Right In: 2189.935+/-0.498 $\chi^2$/NDF: 202753.7/19

Left Out: 2203.297+/-0.362 $\chi^2$/NDF:88208.3/23

Right Out: 2169.906+/-0.458 $\chi^2$/NDF: 307621.6/23

Left In: 2208.379+/-0.365 $\chi^2$/NDF:80994.3/22

Left: 2205.817+/-0.257 $\chi^2$/NDF: 169300.4/46

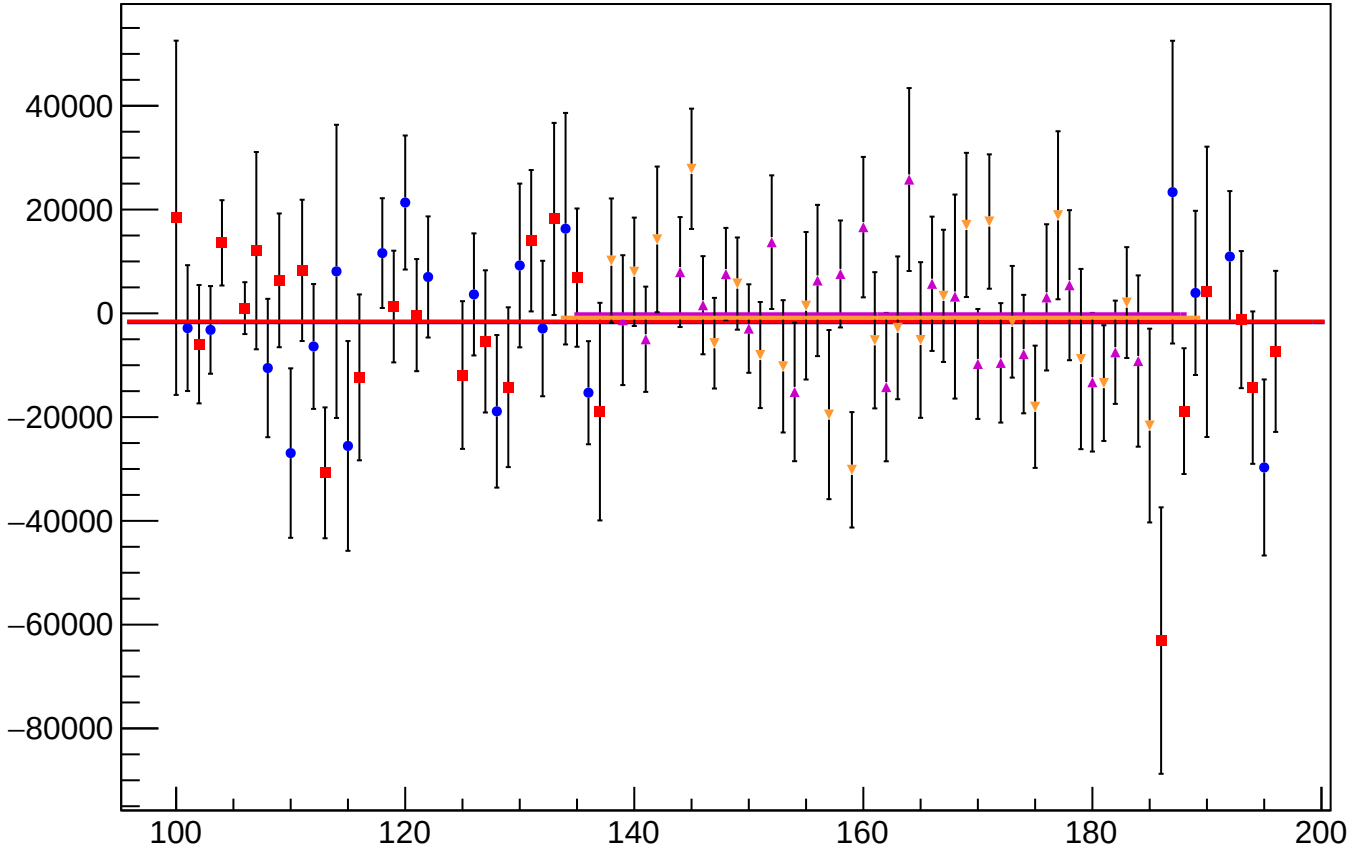
Right: 2179.098+/-0.337 $\chi^2$/NDF: 511252.3/43

In: 2201.925+/-0.294 $\chi^2$/NDF:284641.4/42

Out: 2190.462+/-0.284 $\chi^2$/NDF:399099.4/47

All: 2195.990+/-0.204 $\chi^2$/NDF: 684526.1/90

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1720.231+/-2990.122 $\chi^2$/NDF: 19.0/19

Left Out: -833.485+/-2481.469 $\chi^2$/NDF:29.5/23

Right Out: -1575.842+/-2502.181 $\chi^2$/NDF: 25.0/23

Left In: -182.426+/-2471.223 $\chi^2$/NDF:13.8/22

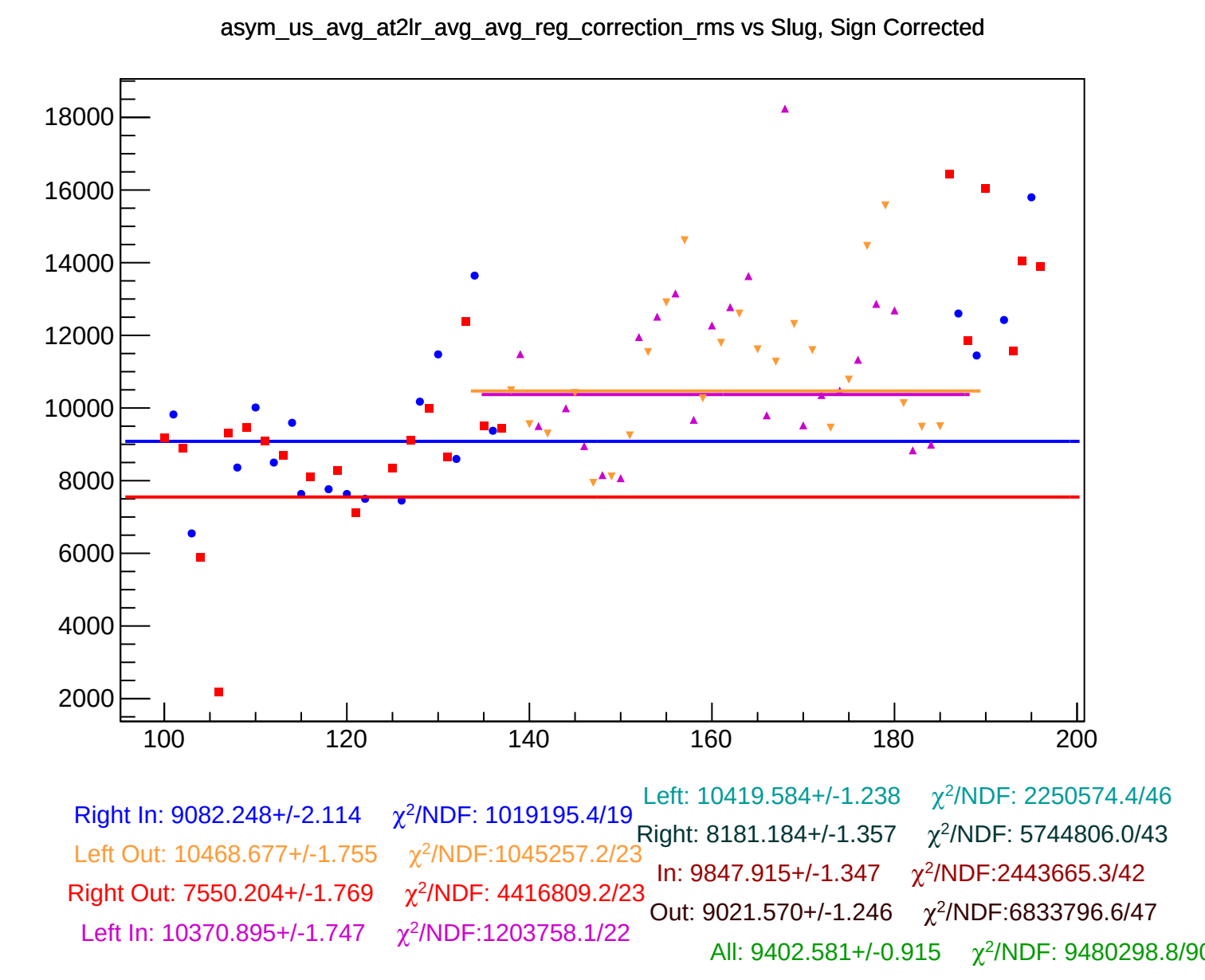
Left: -506.609+/-1751.030 $\chi^2$/NDF: 43.3/46

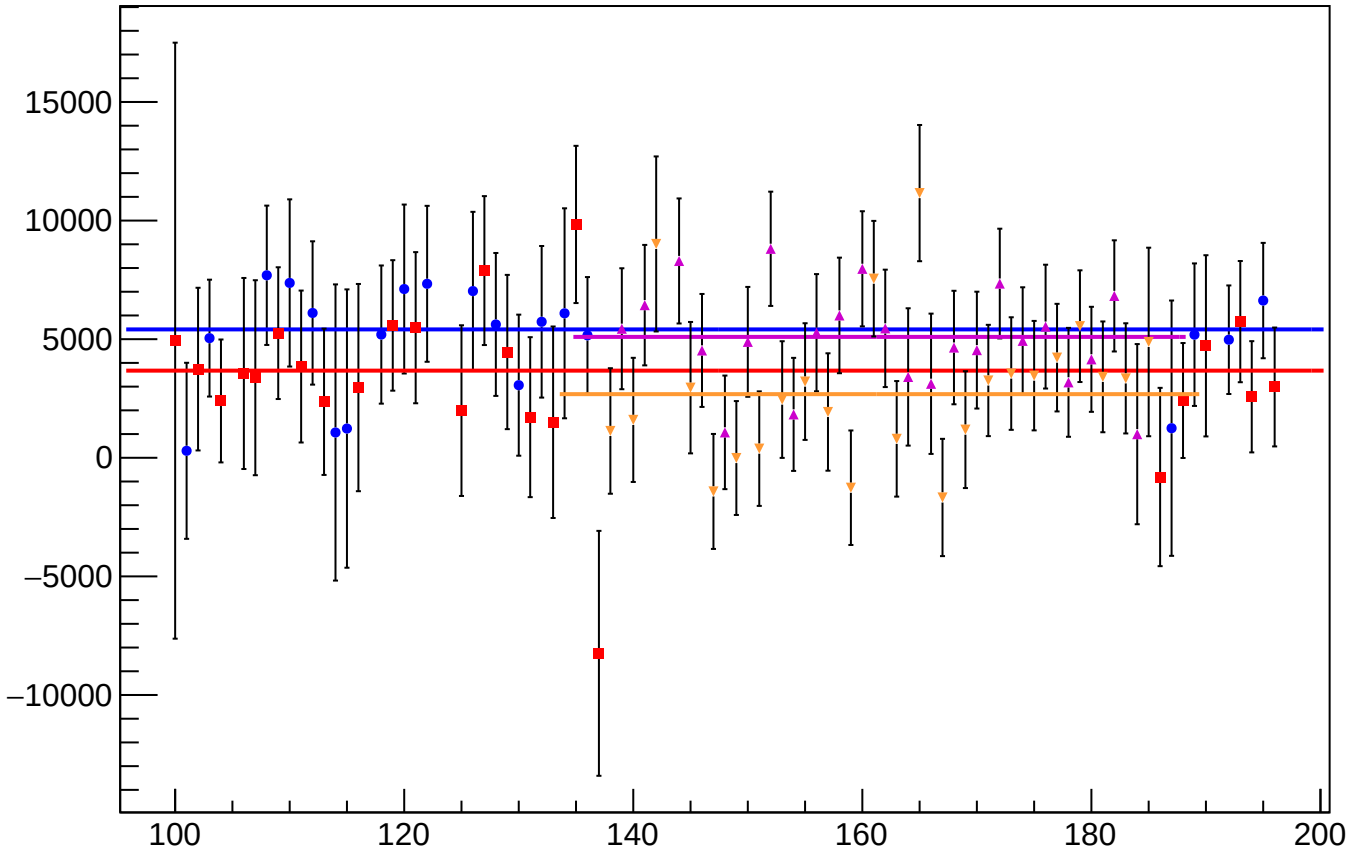
Right: -1635.309+/-1918.938 $\chi^2$/NDF: 44.0/43

In: -806.524+/-1904.867 $\chi^2$/NDF:32.9/42

Out: -1201.578+/-1761.941 $\chi^2$/NDF:54.5/47

All: -1019.426+/-1293.461 $\chi^2$/NDF: 87.5/90


asym_us_avg_at2lr_avg_avg_reg_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 9082.248+/-2.114 χ²/NDF: 1019195.4/19
Left Out: 10468.677+/-1.755 χ²/NDF:1045257.2/23
Right Out: 7550.204+/-1.769 χ²/NDF: 4416809.2/23
Left In: 10370.895+/-1.747 χ²/NDF:1203758.1/22
Left: 10419.584+/-1.238 χ²/NDF: 2250574.4/46
Right: 8181.184+/-1.357 χ²/NDF: 5744806.0/43
In: 9847.915+/-1.347 χ²/NDF:2443665.3/42
Out: 9021.570+/-1.246 χ²/NDF:6833796.6/47
All: 9402.581+/-0.915 χ²/NDF: 9480298.8/90




Right In: 5412.222+/-703.583 $\chi^2$/NDF: 6.3/19

Left Out: 2682.792+/-512.020 $\chi^2$/NDF:30.8/23

Right Out: 3674.275+/-654.857 $\chi^2$/NDF: 15.8/23

Left In: 5096.334+/-516.232 $\chi^2$/NDF:14.9/22

Left: 3879.677+/-363.533 $\chi^2$/NDF: 56.8/46

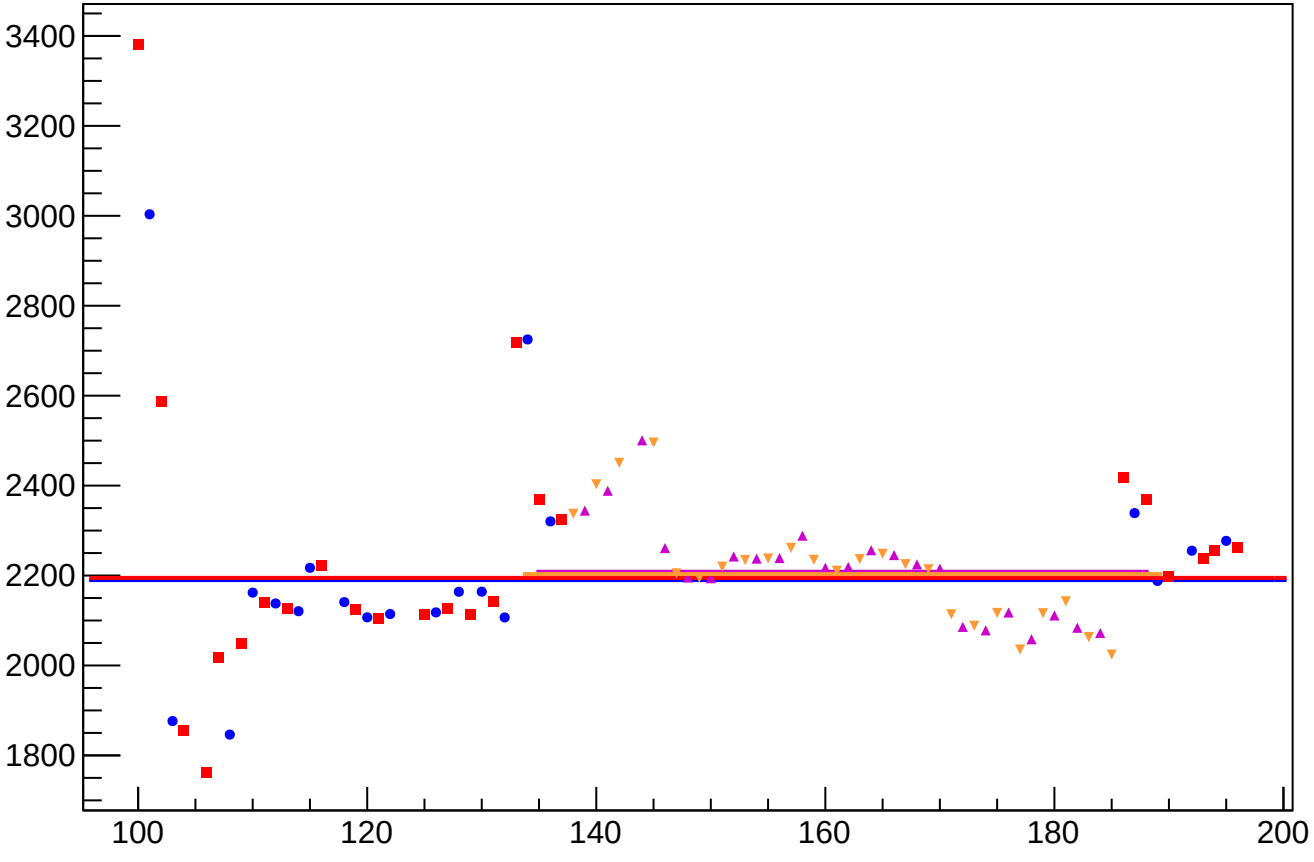
Right: 4480.990+/-479.355 $\chi^2$/NDF: 25.3/43

In: 5206.879+/-416.216 $\chi^2$/NDF:21.3/42

Out: 3058.958+/-403.361 $\chi^2$/NDF:48.1/47

All: 4099.237+/-289.657 $\chi^2$/NDF: 83.1/90

cor_asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected




Right In: 2189.935+/-0.498 $\chi^2$/NDF: 202754.1/19

Left Out: 2203.297+/-0.362 $\chi^2$/NDF:88208.3/23

Right Out: 2194.791+/-0.462 $\chi^2$/NDF: 185501.9/23

Left In: 2208.379+/-0.365 $\chi^2$/NDF:80994.3/22

Left: 2205.817+/-0.257 $\chi^2$/NDF: 169300.4/46

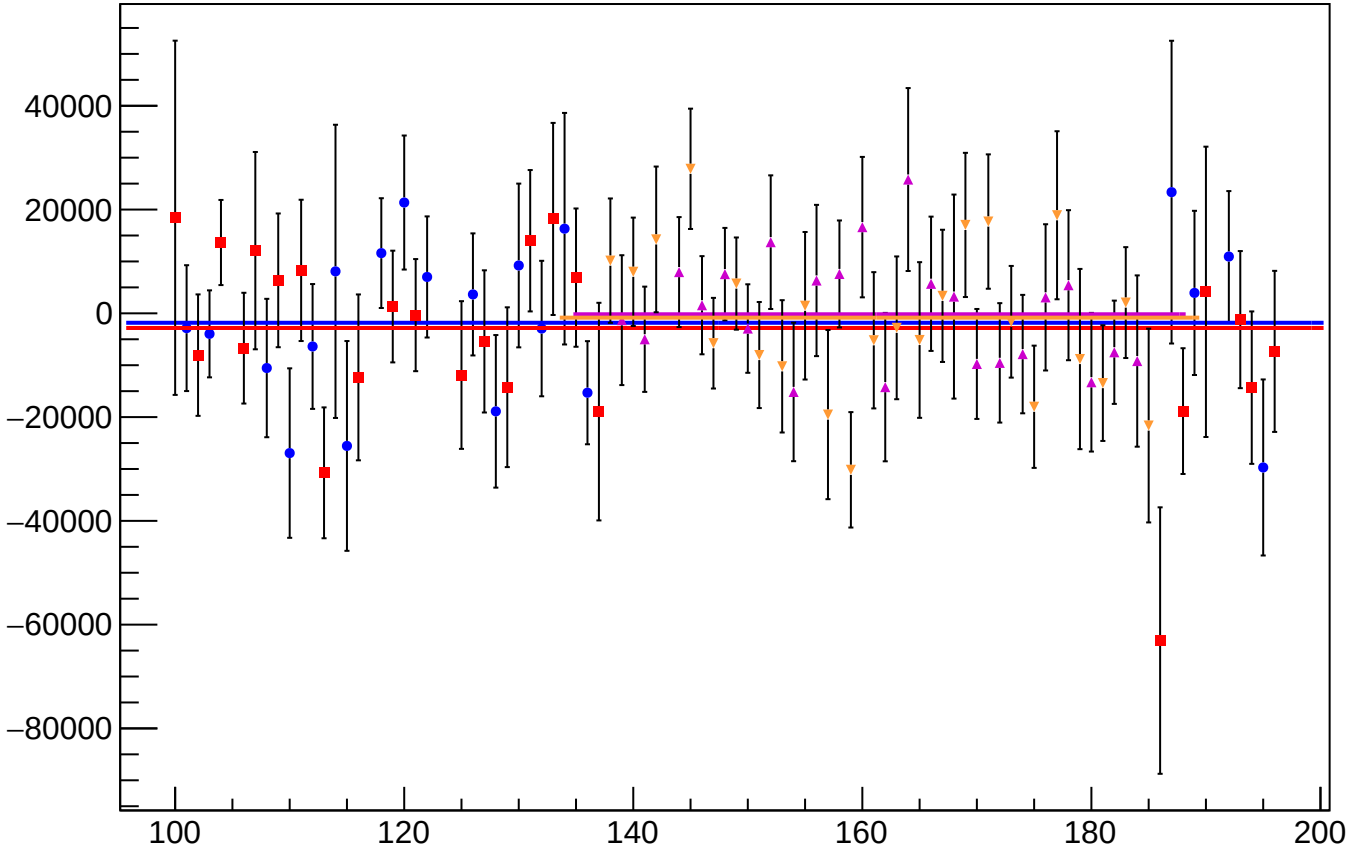
Right: 2192.545+/-0.338 $\chi^2$/NDF: 388307.1/43

In: 2201.925+/-0.294 $\chi^2$/NDF:284641.8/42

Out: 2200.056+/-0.285 $\chi^2$/NDF:273920.4/47

All: 2200.960+/-0.205 $\chi^2$/NDF: 558583.0/90

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -1820.060+/-2987.243 $\chi^2$/NDF: 19.1/19

Left Out: -833.458+/-2481.469 $\chi^2$/NDF:29.5/23

Right Out: -2823.198+/-2793.138 $\chi^2$/NDF: 24.9/23

Left In: -182.360+/-2471.221 $\chi^2$/NDF:13.8/22

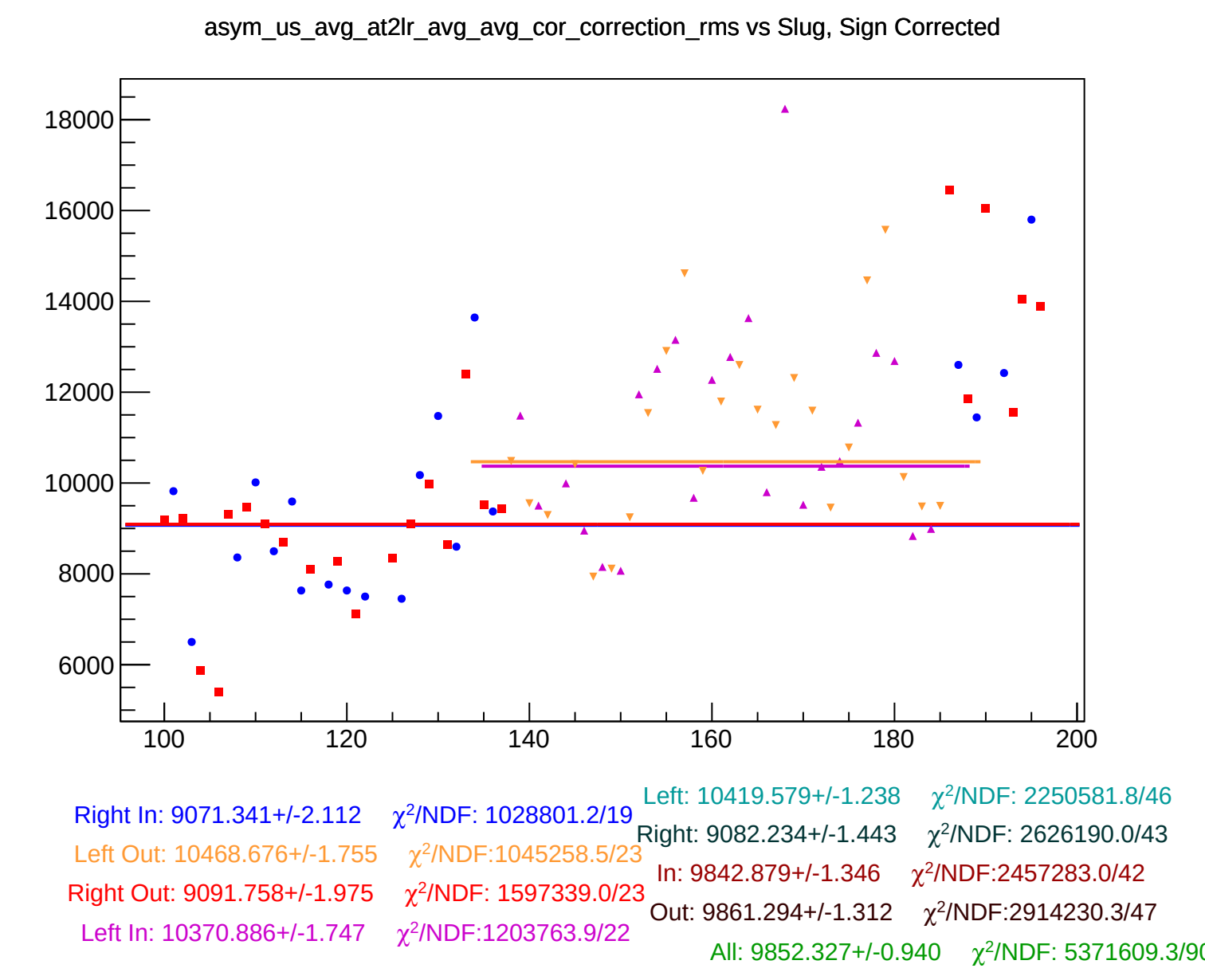
Left: -506.562+/-1751.029 $\chi^2$/NDF: 43.3/46

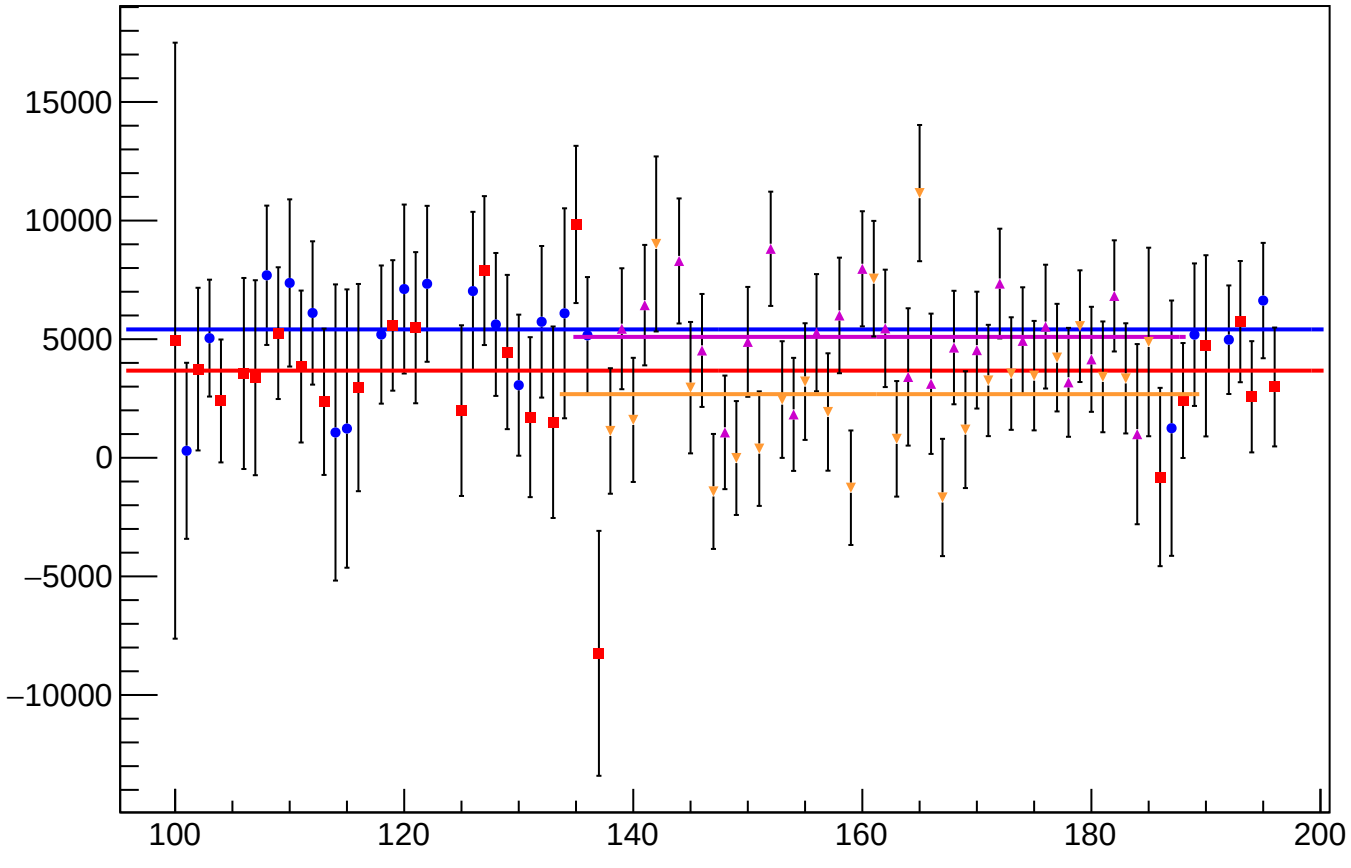
Right: -2355.277+/-2040.219 $\chi^2$/NDF: 44.1/43

In: -847.760+/-1904.121 $\chi^2$/NDF:33.0/42

Out: -1711.166+/-1855.108 $\chi^2$/NDF:54.7/47

All: -1290.718+/-1328.750 $\chi^2$/NDF: 87.8/90


asym_us_avg_at2lr_avg_avg_cor_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
100
120
140
160
180
200
Right In: 9071.341+/-2.112 χ²/NDF: 1028801.2/19
Left Out: 10468.676+/-1.755 χ²/NDF:1045258.5/23
Right Out: 9091.758+/-1.975 χ²/NDF: 1597339.0/23
Left In: 10370.886+/-1.747 χ²/NDF:1203763.9/22
Left: 10419.579+/-1.238 χ²/NDF: 2250581.8/46
Right: 9082.234+/-1.443 χ²/NDF: 2626190.0/43
In: 9842.879+/-1.346 χ²/NDF:2457283.0/42
Out: 9861.294+/-1.312 χ²/NDF:2914230.3/47
All: 9852.327+/-0.940 χ²/NDF: 5371609.3/90




Right In: 5412.222+/-703.583 $\chi^2$/NDF: 6.3/19

Left Out: 2682.792+/-512.020 $\chi^2$/NDF:30.8/23

Right Out: 3674.275+/-654.857 $\chi^2$/NDF: 15.8/23

Left In: 5096.334+/-516.232 $\chi^2$/NDF:14.9/22

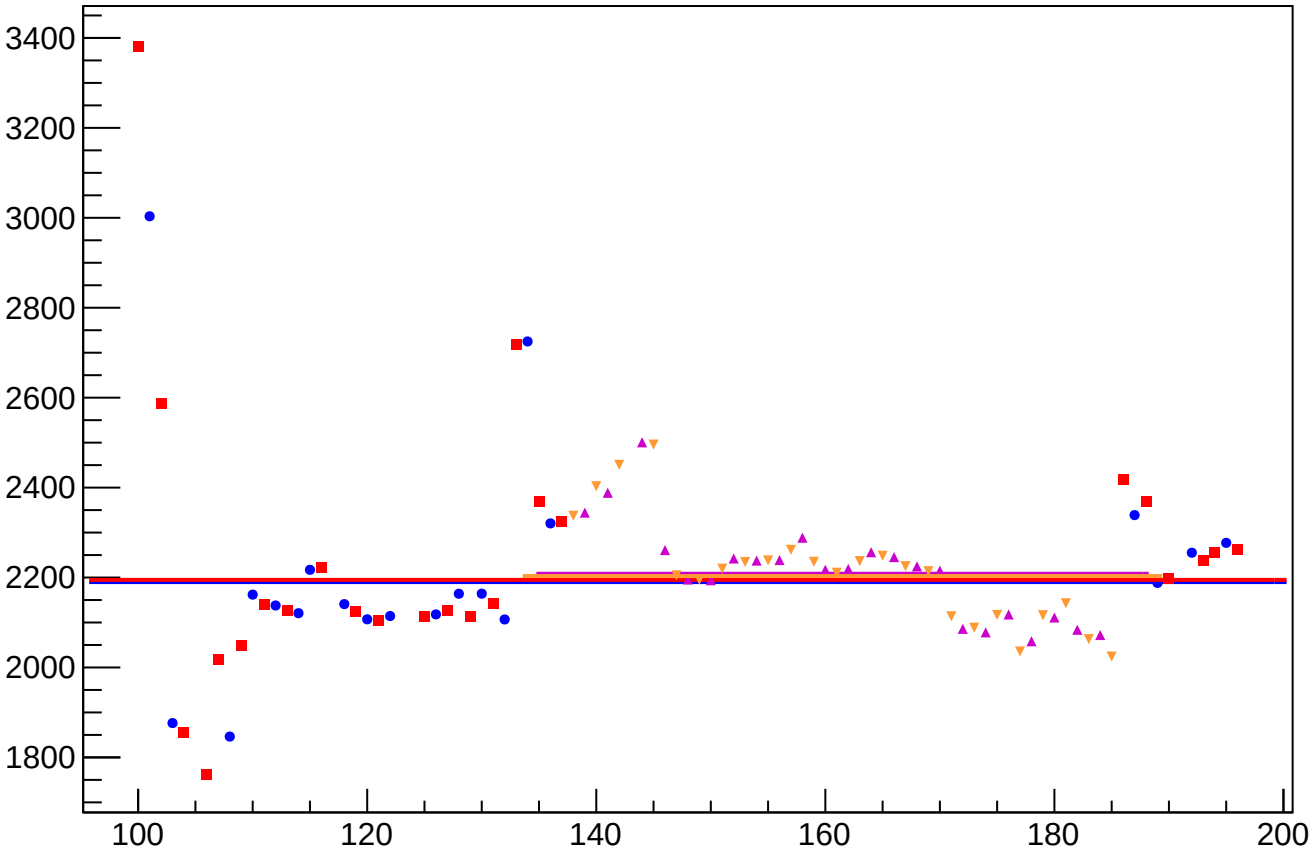
Left: 3879.677+/-363.533 $\chi^2$/NDF: 56.8/46

Right: 4480.990+/-479.355 $\chi^2$/NDF: 25.3/43

In: 5206.879+/-416.216 $\chi^2$/NDF:21.3/42

Out: 3058.958+/-403.361 $\chi^2$/NDF:48.1/47

All: 4099.237+/-289.657 $\chi^2$/NDF: 83.1/90




Right In: 2189.935+/-0.498 $\chi^2$/NDF: 202754.1/19

Left Out: 2203.297+/-0.362 $\chi^2$/NDF:88208.3/23

Right Out: 2194.791+/-0.462 $\chi^2$/NDF: 185501.9/23

Left In: 2208.379+/-0.365 $\chi^2$/NDF:80994.3/22

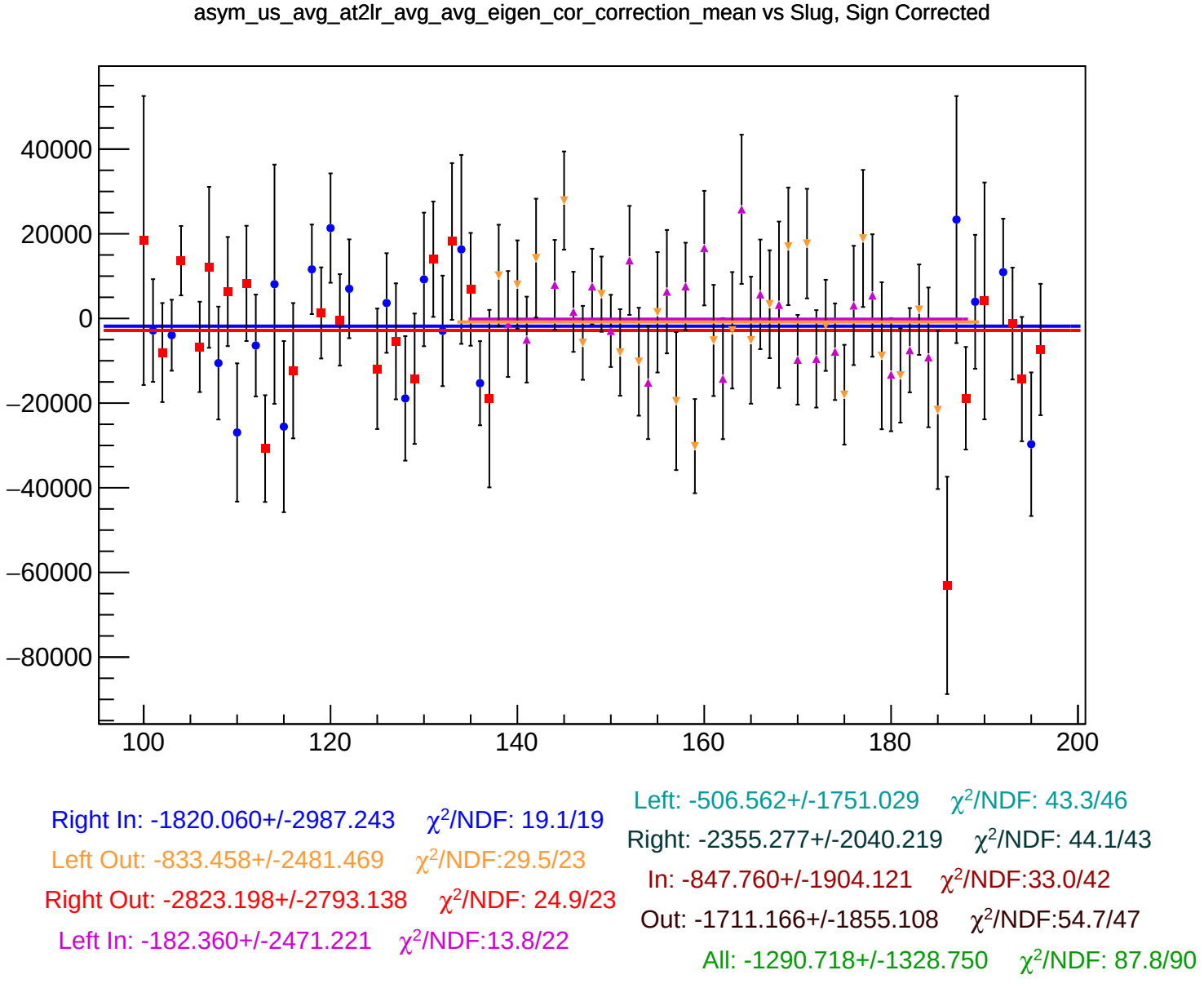
Left: 2205.817+/-0.257 $\chi^2$/NDF: 169300.4/46

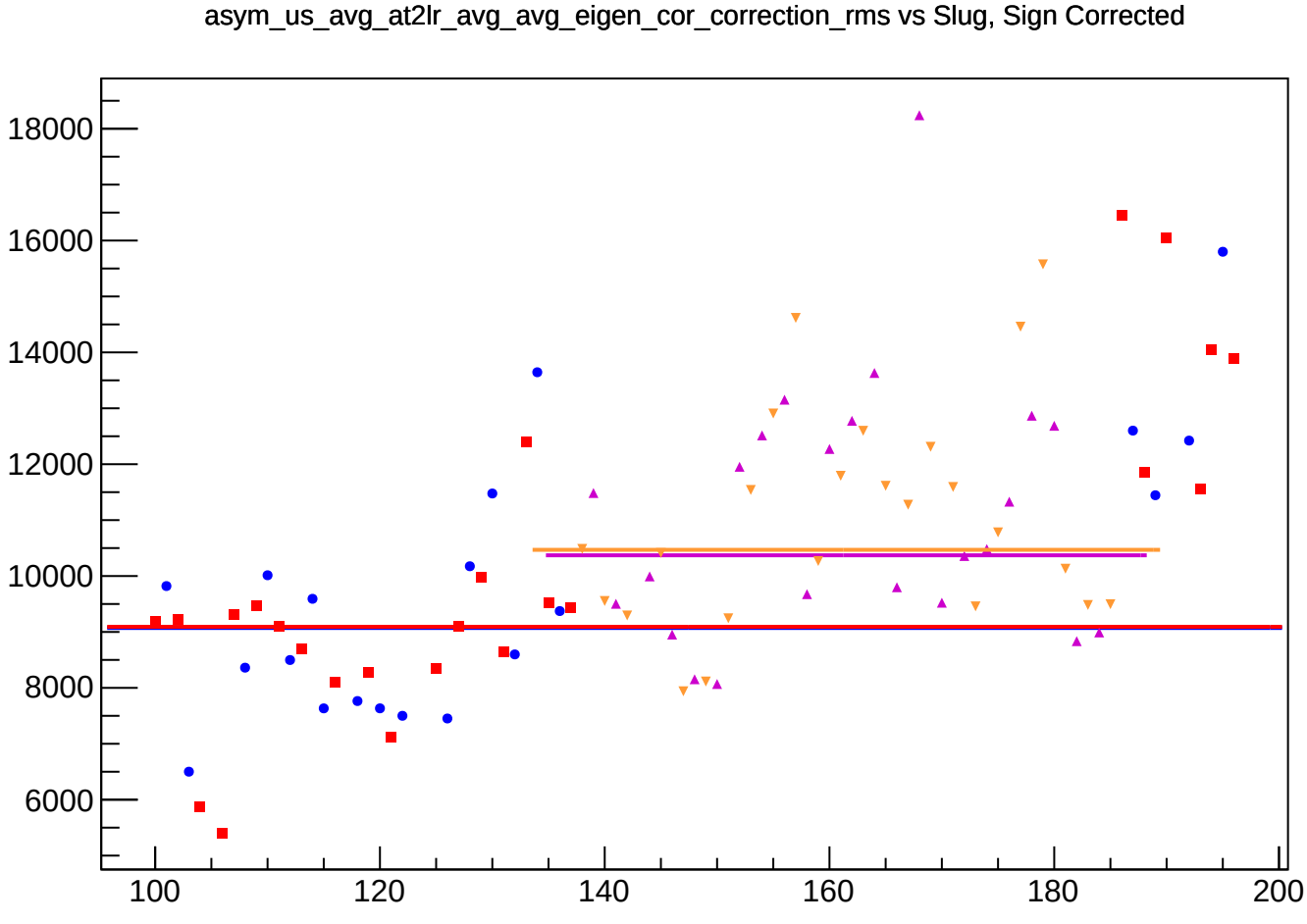
Right: 2192.545+/-0.338 $\chi^2$/NDF: 388307.1/43

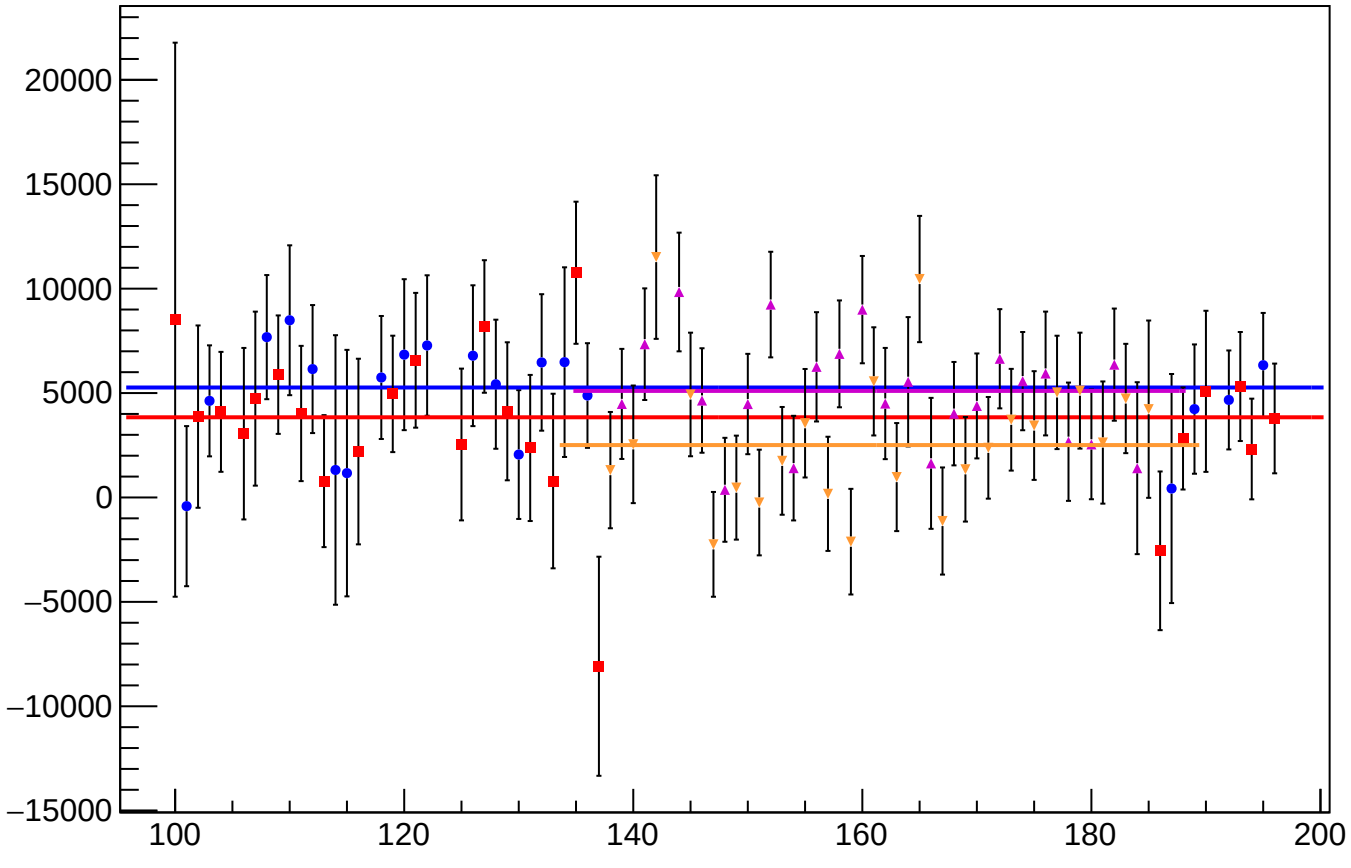
In: 2201.925+/-0.294 $\chi^2$/NDF:284641.8/42

Out: 2200.056+/-0.285 $\chi^2$/NDF:273920.4/47

All: 2200.960+/-0.205 $\chi^2$/NDF: 558583.0/90


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected
40000
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -1820.060+/-2987.243 χ²/NDF: 19.1/19
Left Out: -833.458+/-2481.469 χ²/NDF:29.5/23
Right Out: -2823.198+/-2793.138 χ²/NDF: 24.9/23
Left In: -182.360+/-2471.221 χ²/NDF:13.8/22
Left: -506.562+/-1751.029 χ²/NDF: 43.3/46
Right: -2355.277+/-2040.219 χ²/NDF: 44.1/43
In: -847.760+/-1904.121 χ²/NDF:33.0/42
Out: -1711.166+/-1855.108 χ²/NDF:54.7/47
All: -1290.718+/-1328.750 χ²/NDF: 87.8/90


asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
100
120
140
160
180
200
Right In: 9071.341+/-2.112 χ²/NDF: 1028801.2/19
Left Out: 10468.676+/-1.755 χ²/NDF:1045258.5/23
Right Out: 9091.758+/-1.975 χ²/NDF: 1597339.0/23
Left In: 10370.886+/-1.747 χ²/NDF:1203763.9/22
Left: 10419.579+/-1.238 χ²/NDF: 2250581.8/46
Right: 9082.234+/-1.443 χ²/NDF: 2626190.0/43
In: 9842.879+/-1.346 χ²/NDF:2457283.0/42
Out: 9861.294+/-1.312 χ²/NDF:2914230.3/47
All: 9852.327+/-0.940 χ²/NDF: 5371609.3/90




Right In: 5266.142+/-722.797 $\chi^2$/NDF: 7.9/19

Left Out: 2508.976+/-551.601 $\chi^2$/NDF:29.8/23

Right Out: 3839.696+/-676.213 $\chi^2$/NDF: 18.5/23

Left In: 5102.993+/-552.583 $\chi^2$/NDF:19.9/22

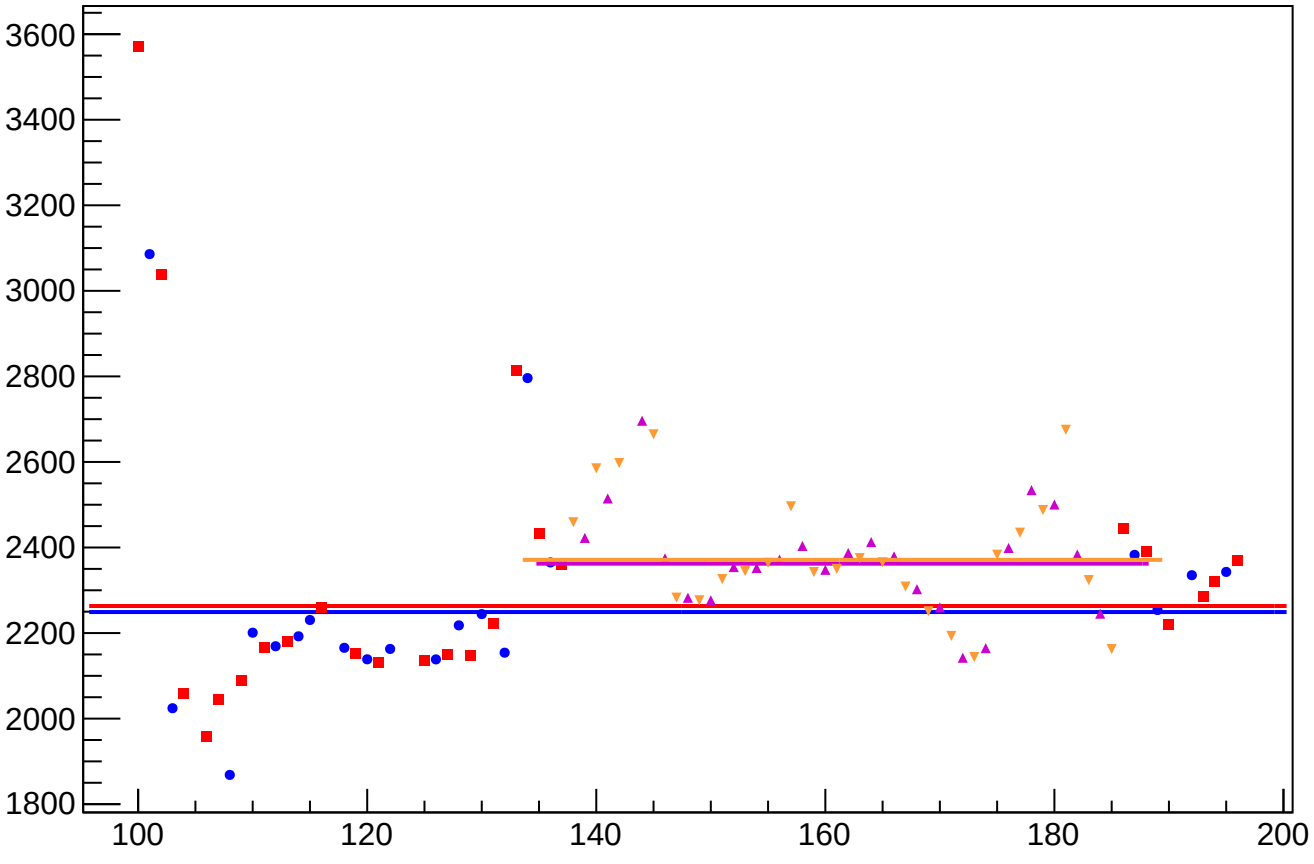
Left: 3803.678+/-390.387 $\chi^2$/NDF: 60.7/46

Right: 4505.475+/-493.803 $\chi^2$/NDF: 28.5/43

In: 5163.174+/-438.991 $\chi^2$/NDF:27.8/42

Out: 3040.656+/-427.431 $\chi^2$/NDF:50.7/47

All: 4073.601+/-306.244 $\chi^2$/NDF: 90.5/90




Right In: 2249.119+/-0.511 $\chi^2$/NDF: 193054.3/19

Left Out: 2371.137+/-0.390 $\chi^2$/NDF:116296.5/23

Right Out: 2263.250+/-0.478 $\chi^2$/NDF: 189708.1/23

Left In: 2362.218+/-0.391 $\chi^2$/NDF:91896.7/22

Left: 2366.685+/-0.276 $\chi^2$/NDF: 208454.2/46

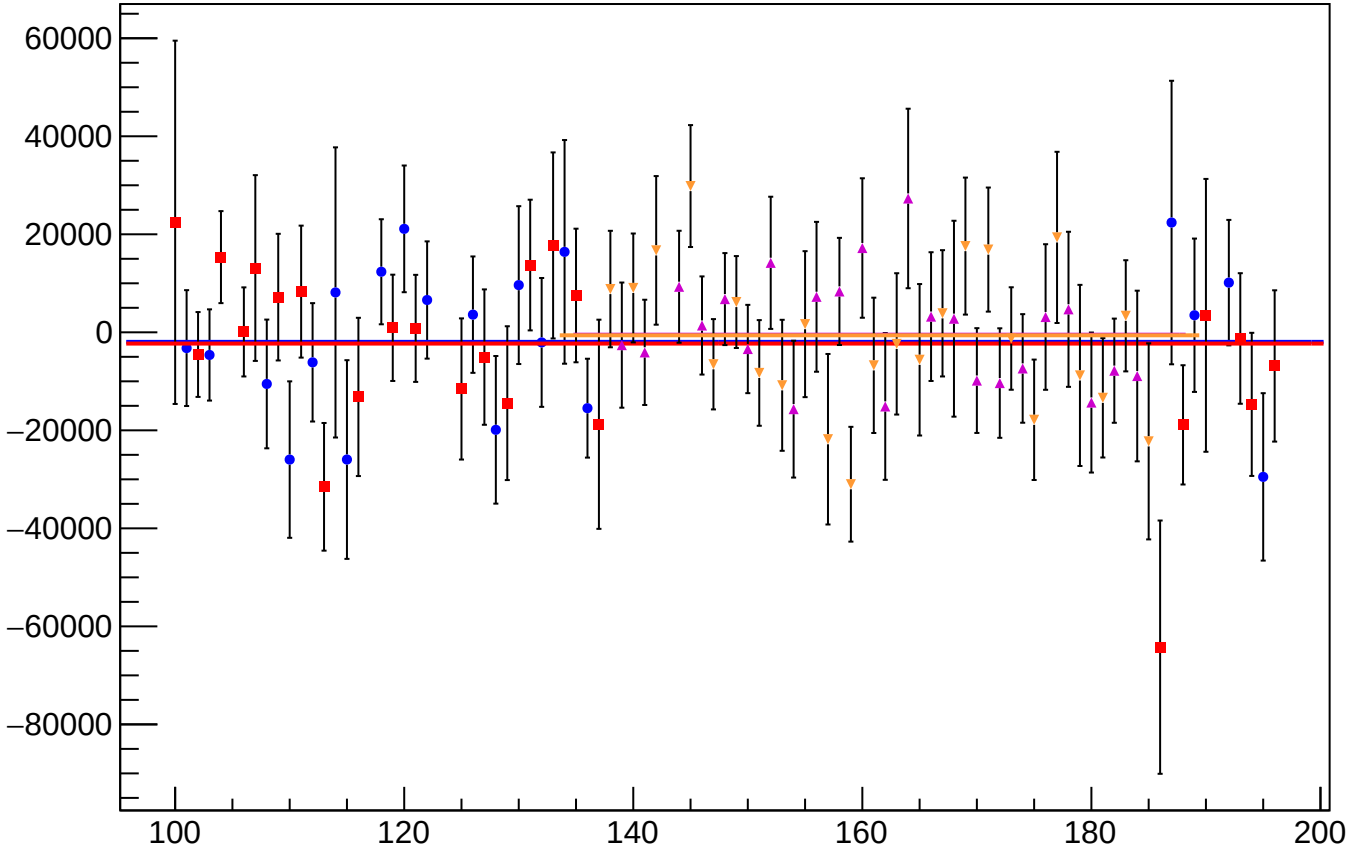
Right: 2256.658+/-0.349 $\chi^2$/NDF: 383170.2/43

In: 2320.499+/-0.310 $\chi^2$/NDF:315856.1/42

Out: 2328.011+/-0.302 $\chi^2$/NDF:336588.1/47

All: 2324.355+/-0.217 $\chi^2$/NDF: 652744.9/90

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -1950.359+/-3039.620 $\chi^2$/NDF: 18.8/19

Left Out: -608.283+/-2589.919 $\chi^2$/NDF:28.9/23

Right Out: -2299.744+/-2746.139 $\chi^2$/NDF: 24.8/23

Left In: -490.044+/-2577.213 $\chi^2$/NDF:13.5/22

Left: -548.873+/-1826.841 $\chi^2$/NDF: 42.4/46

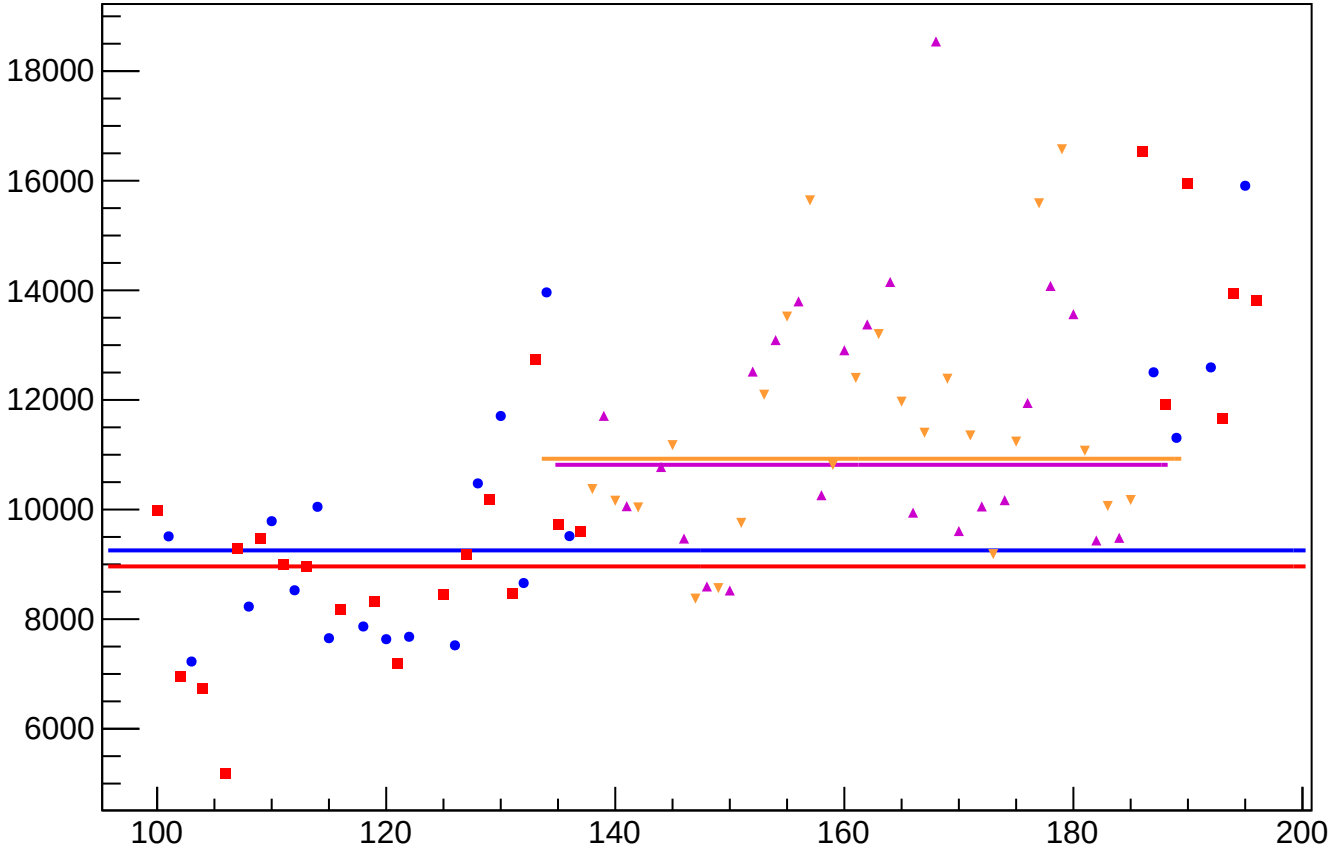
Right: -2142.728+/-2037.692 $\chi^2$/NDF: 43.6/43

In: -1100.790+/-1965.741 $\chi^2$/NDF:32.5/42

Out: -1404.536+/-1884.157 $\chi^2$/NDF:53.8/47

All: -1259.097+/-1360.228 $\chi^2$/NDF: 86.4/90

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 9254.511+/-2.149 $\chi^2$/NDF: 923240.9/19

Left Out: 10926.860+/-1.831 $\chi^2$/NDF:1057331.1/23

Right Out: 8962.238+/-1.942 $\chi^2$/NDF: 1669348.9/23

Left In: 10816.320+/-1.822 $\chi^2$/NDF:1196820.9/22

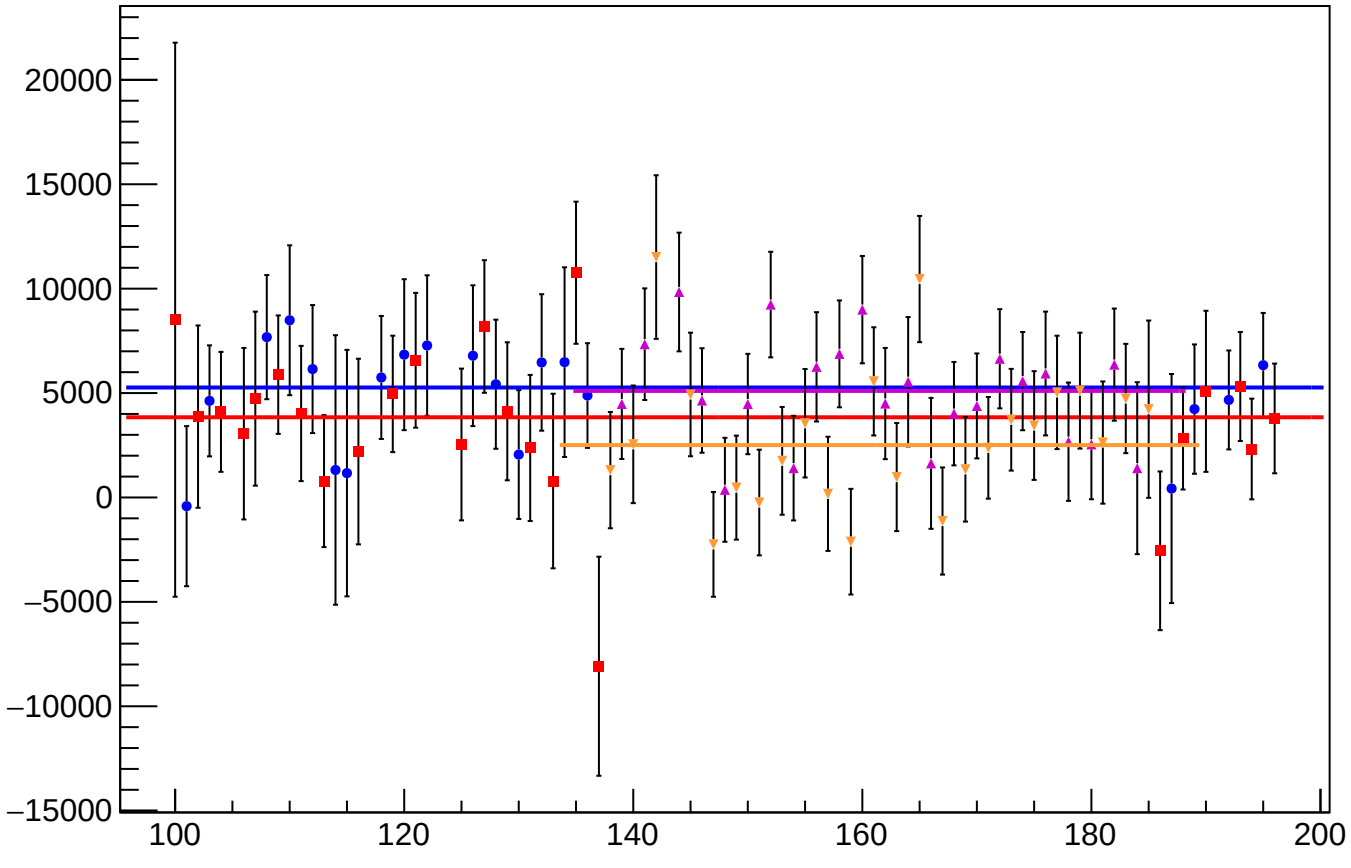
Left: 10871.318+/-1.292 $\chi^2$/NDF: 2255982.7/46

Right: 9093.587+/-1.441 $\chi^2$/NDF: 2602771.1/43

In: 10163.126+/-1.390 $\chi^2$/NDF:2427246.4/42

Out: 10002.016+/-1.332 $\chi^2$/NDF:3268437.6/47

All: 10079.159+/-0.962 $\chi^2$/NDF: 5702685.8/9




Right In: 5266.138+/-722.796 $\chi^2$/NDF: 7.9/19

Left Out: 2508.963+/-551.602 $\chi^2$/NDF:29.8/23

Right Out: 3839.698+/-676.213 $\chi^2$/NDF: 18.5/23

Left In: 5102.996+/-552.584 $\chi^2$/NDF:19.9/22

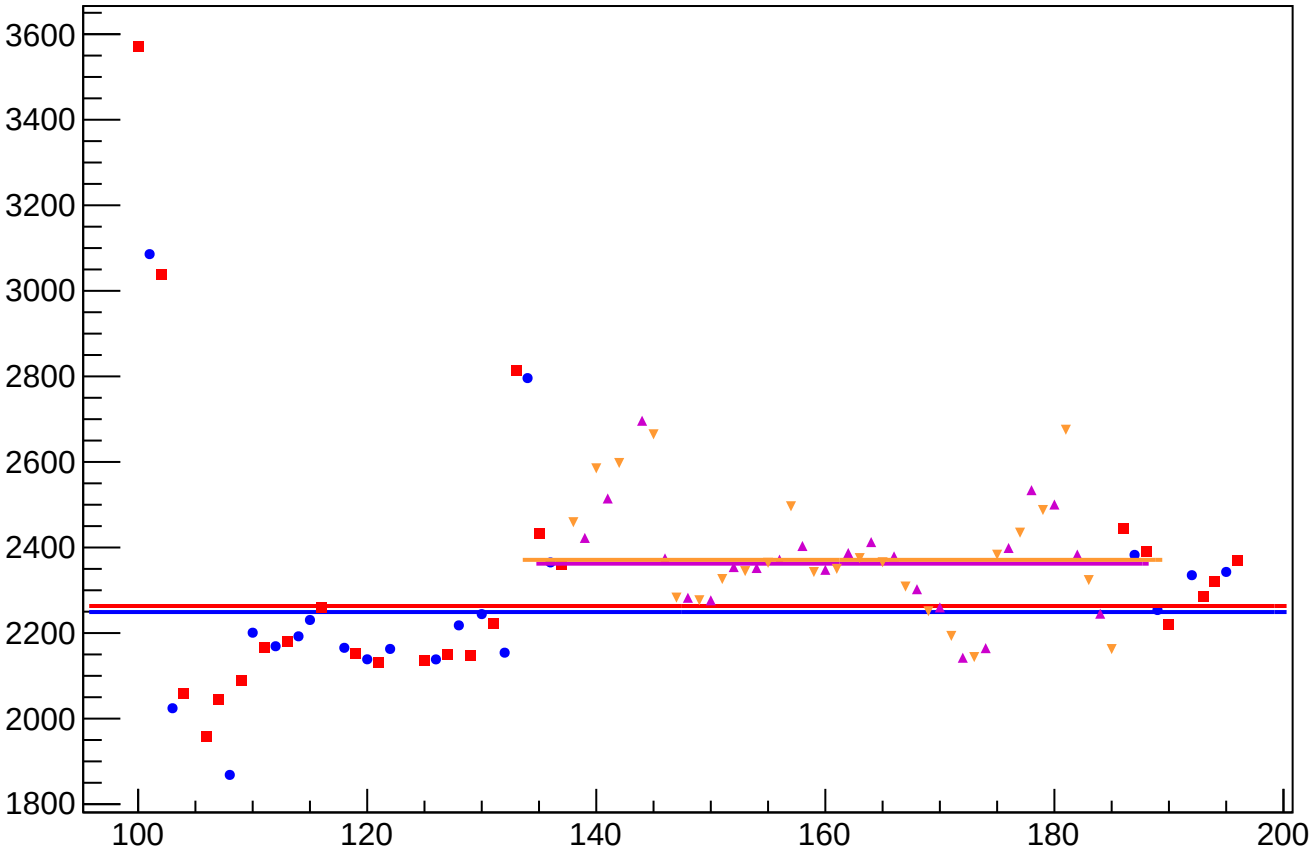
Left: 3803.673+/-390.388 $\chi^2$/NDF: 60.7/46

Right: 4505.474+/-493.803 $\chi^2$/NDF: 28.5/43

In: 5163.175+/-438.991 $\chi^2$/NDF:27.8/42

Out: 3040.650+/-427.431 $\chi^2$/NDF:50.7/47

All: 4073.598+/-306.245 $\chi^2$/NDF: 90.5/90




Right In: 2249.118+/-0.511 $\chi^2$/NDF: 193054.5/19

Left Out: 2371.140+/-0.390 $\chi^2$/NDF:116300.8/23

Right Out: 2263.250+/-0.478 $\chi^2$/NDF: 189708.2/23

Left In: 2362.221+/-0.391 $\chi^2$/NDF:91901.3/22

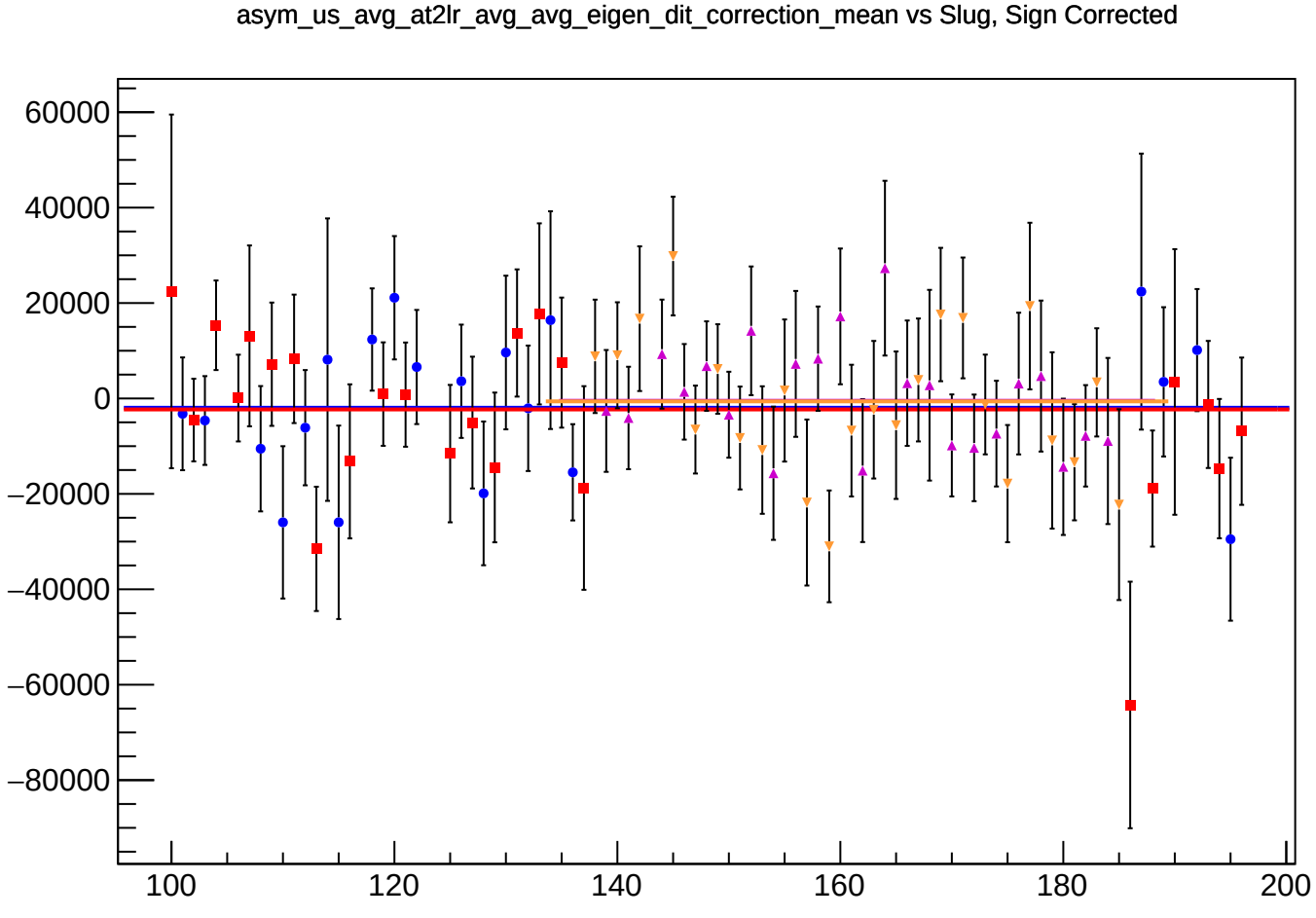
Left: 2366.689+/-0.276 $\chi^2$/NDF: 208463.0/46

Right: 2256.657+/-0.349 $\chi^2$/NDF: 383170.5/43

In: 2320.500+/-0.310 $\chi^2$/NDF:315863.1/42

Out: 2328.012+/-0.302 $\chi^2$/NDF:336594.6/47

All: 2324.357+/-0.217 $\chi^2$/NDF: 652758.4/90




Right In: -1950.339+/-3039.614 $\chi^2$/NDF: 18.8/19

Left Out: -608.291+/-2589.924 $\chi^2$/NDF:28.9/23

Right Out: -2299.729+/-2746.134 $\chi^2$/NDF: 24.8/23

Left In: -490.047+/-2577.218 $\chi^2$/NDF:13.5/22

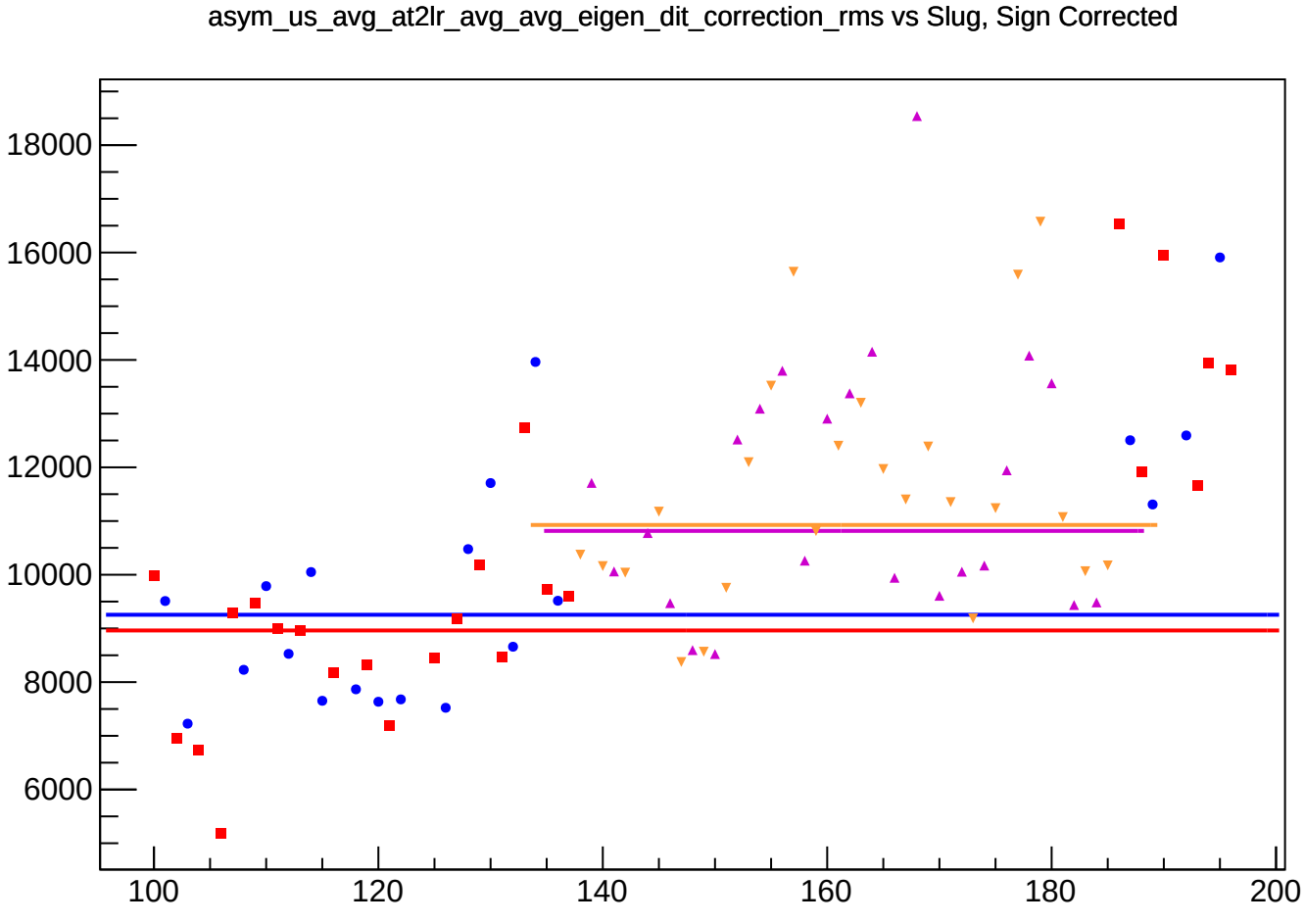
Left: -548.878+/-1826.844 $\chi^2$/NDF: 42.4/46

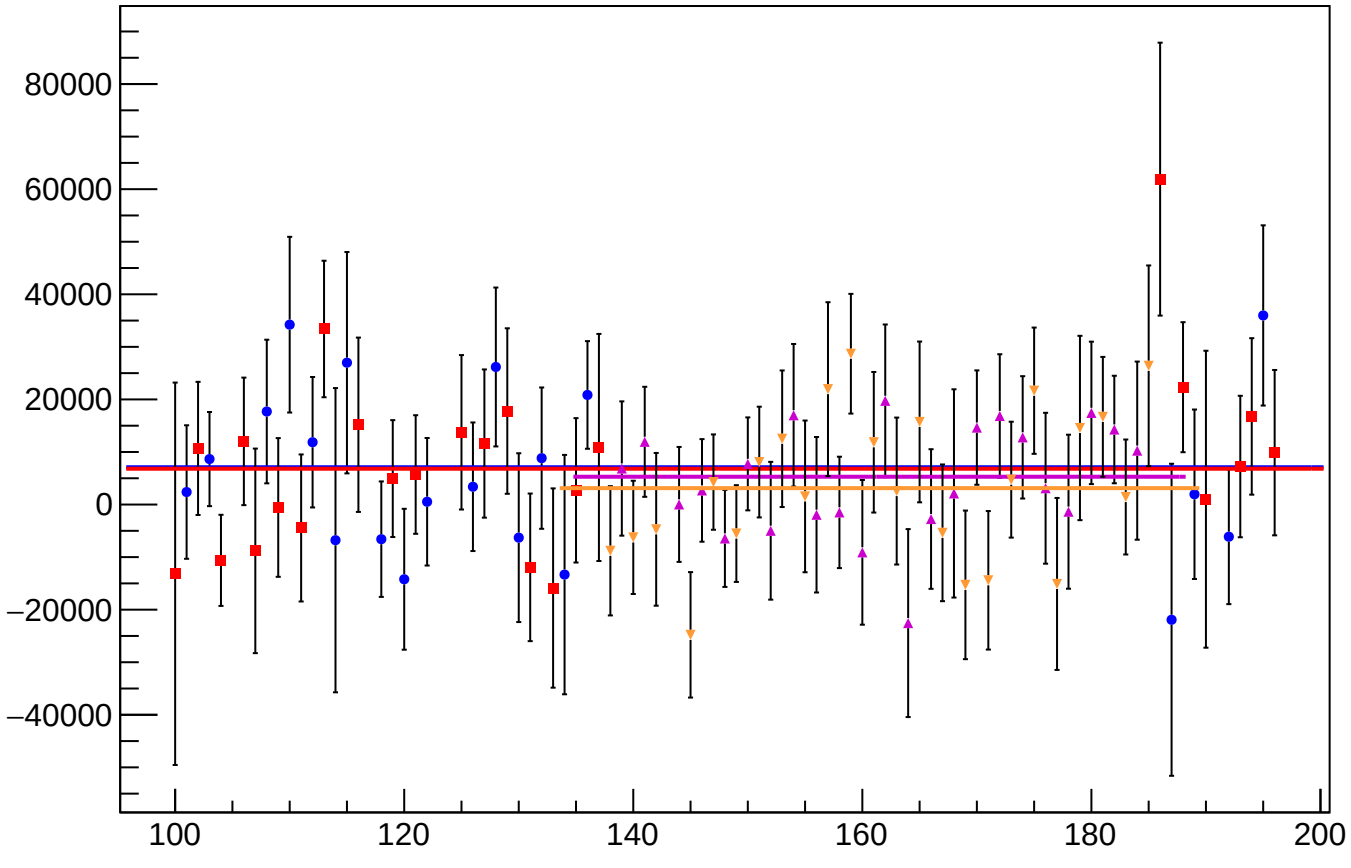
Right: -2142.711+/-2037.688 $\chi^2$/NDF: 43.6/43

In: -1100.786+/-1965.742 $\chi^2$/NDF:32.5/42

Out: -1404.536+/-1884.157 $\chi^2$/NDF:53.8/47

All: -1259.095+/-1360.228 $\chi^2$/NDF: 86.4/90


asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
100
120
140
160
180
200
Right In: 9254.491+/-2.149 χ²/NDF: 923251.8/19
Left Out: 10926.878+/-1.831 χ²/NDF:1057333.6/23
Right Out: 8962.221+/-1.942 χ²/NDF: 1669356.9/23
Left In: 10816.337+/-1.822 χ²/NDF:1196824.5/22
Left: 10871.336+/-1.292 χ²/NDF: 2255988.7/46
Right: 9093.569+/-1.441 χ²/NDF: 2602789.9/43
In: 10163.125+/-1.390 χ²/NDF:2427275.4/42
Out: 10002.015+/-1.332 χ²/NDF:3268467.4/47
All: 10079.157+/-0.962 χ²/NDF: 5702744.7/9




Right In: 7095.638+/-3092.032 $\chi^2$/NDF: 19.0/19

Left Out: 3119.161+/-2542.855 $\chi^2$/NDF:27.4/23

Right Out: 6814.022+/-2905.477 $\chi^2$/NDF: 21.5/23

Left In: 5290.718+/-2532.995 $\chi^2$/NDF:13.3/22

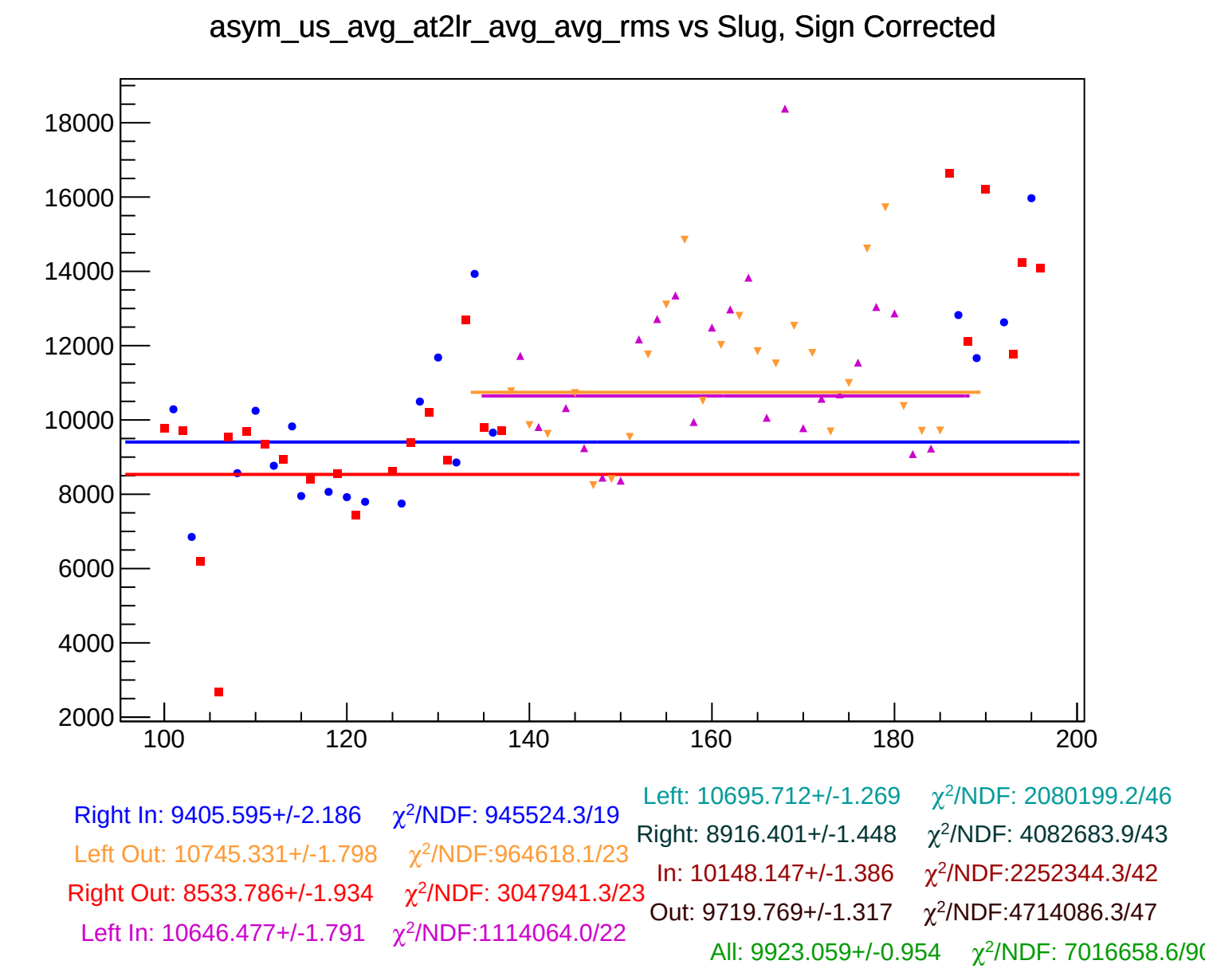
Left: 4209.158+/-1794.574 $\chi^2$/NDF: 41.1/46

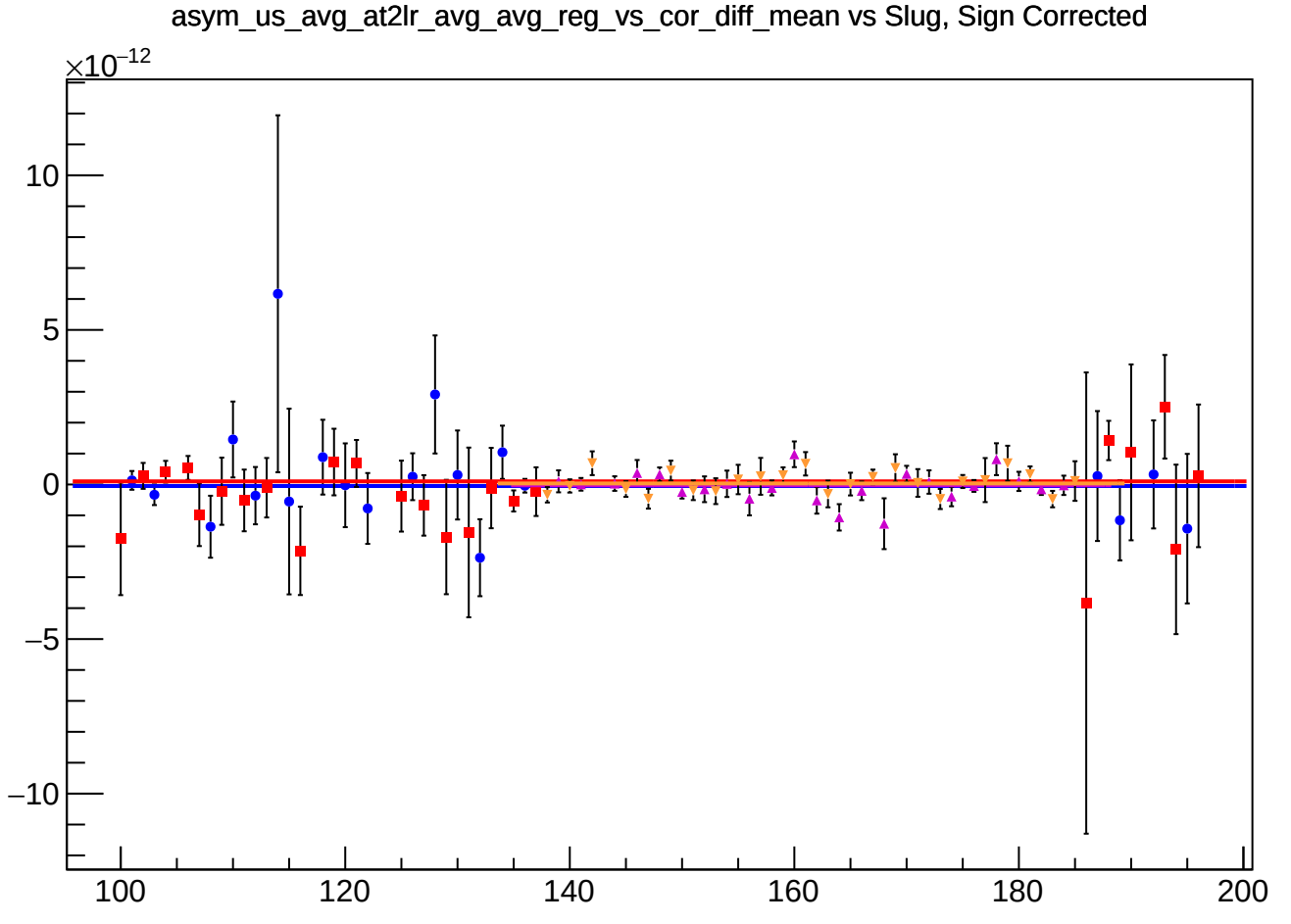
Right: 6946.078+/-2117.364 $\chi^2$/NDF: 40.5/43

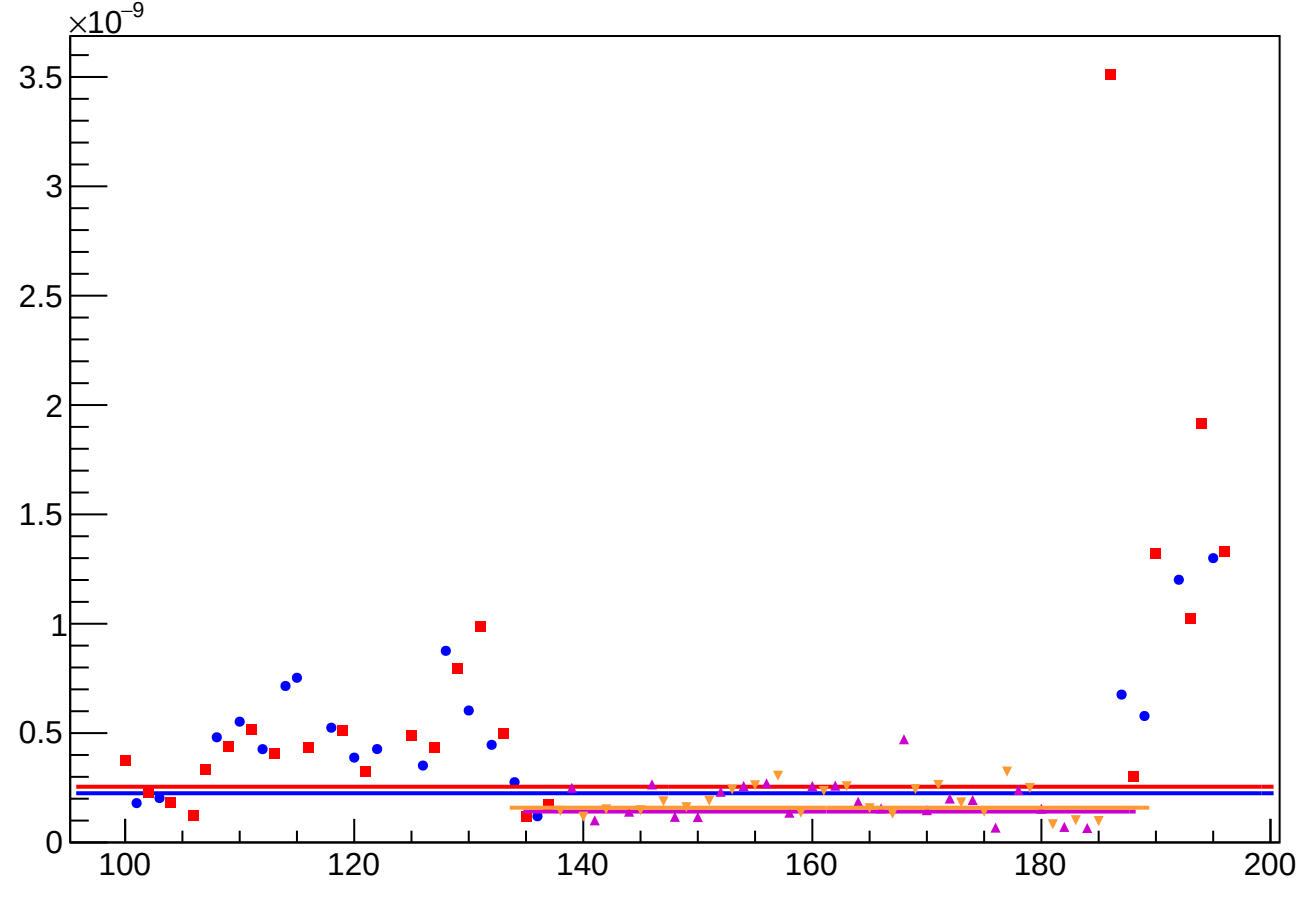
In: 6015.552+/-1959.451 $\chi^2$/NDF:32.6/42

Out: 4721.759+/-1913.510 $\chi^2$/NDF:49.8/47

All: 5353.311+/-1369.010 $\chi^2$/NDF: 82.6/90


asym_us_avg_at2lr_avg_avg_rms vs Slug, Sign Corrected
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 9405.595+/-2.186 χ²/NDF: 945524.3/19
Left Out: 10745.331+/-1.798 χ²/NDF:964618.1/23
Right Out: 8533.786+/-1.934 χ²/NDF: 3047941.3/23
Left In: 10646.477+/-1.791 χ²/NDF:1114064.0/22
Left: 10695.712+/-1.269 χ²/NDF: 2080199.2/46
Right: 8916.401+/-1.448 χ²/NDF: 4082683.9/43
In: 10148.147+/-1.386 χ²/NDF:2252344.3/42
Out: 9719.769+/-1.317 χ²/NDF:4714086.3/47
All: 9923.059+/-0.954 χ²/NDF: 7016658.6/90


asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
10
5
0
−5
−10
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 15.4/19
Left Out: 0.000+/-0.000 χ²/NDF:26.3/23
Right Out: 0.000+/-0.000 χ²/NDF: 21.5/23
Left In: -0.000+/-0.000 χ²/NDF:27.9/22
Left: 0.000+/-0.000 χ²/NDF: 54.6/46
Right: 0.000+/-0.000 χ²/NDF: 37.5/43
In: -0.000+/-0.000 χ²/NDF:43.4/42
Out: 0.000+/-0.000 χ²/NDF:48.0/47
All: 0.000+/-0.000 χ²/NDF: 92.1/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2919322.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1297018.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3873765.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2396288.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3771928.7/46

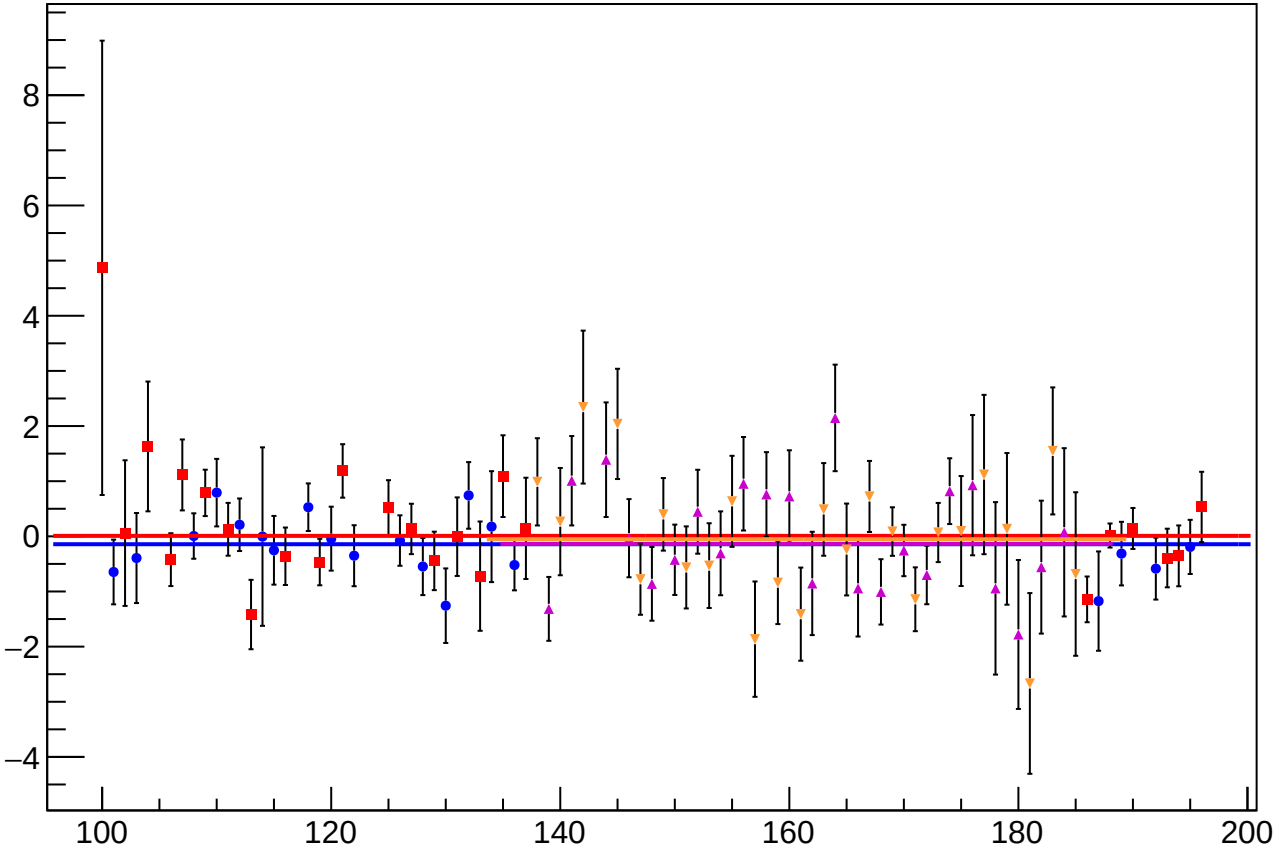
Right: 0.000+/-0.000 $\chi^2$/NDF: 6835151.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:5917081.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:5851975.6/47

All: 0.000+/-0.000 $\chi^2$/NDF: 11883567.6/90

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.143+/-0.126 $\chi^2$/NDF: 14.8/19

Left Out: -0.053+/-0.161 $\chi^2$/NDF:30.1/23

Right Out: 0.009+/-0.102 $\chi^2$/NDF: 37.4/23

Left In: -0.138+/-0.158 $\chi^2$/NDF:30.0/22

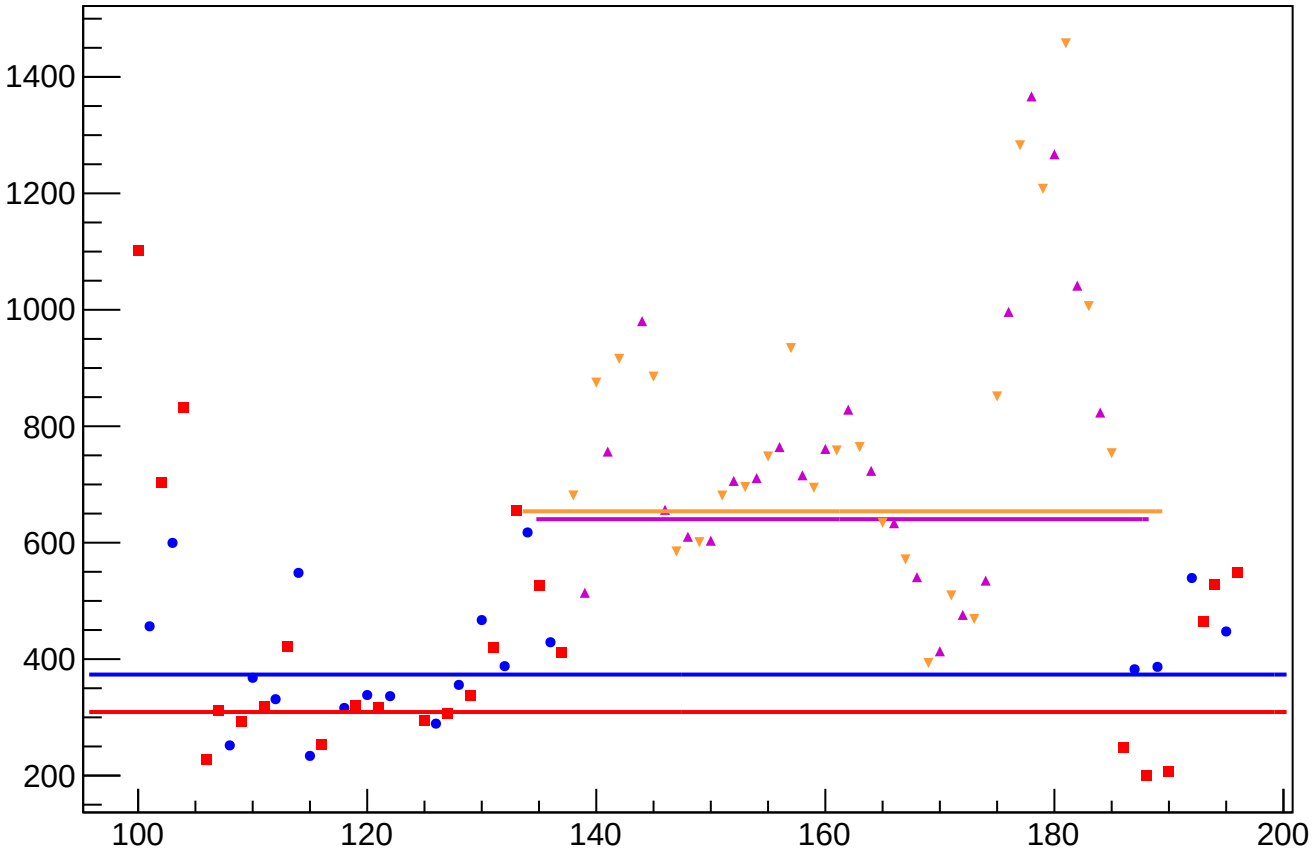
Left: -0.096+/-0.113 $\chi^2$/NDF: 60.2/46

Right: -0.051+/-0.079 $\chi^2$/NDF: 53.0/43

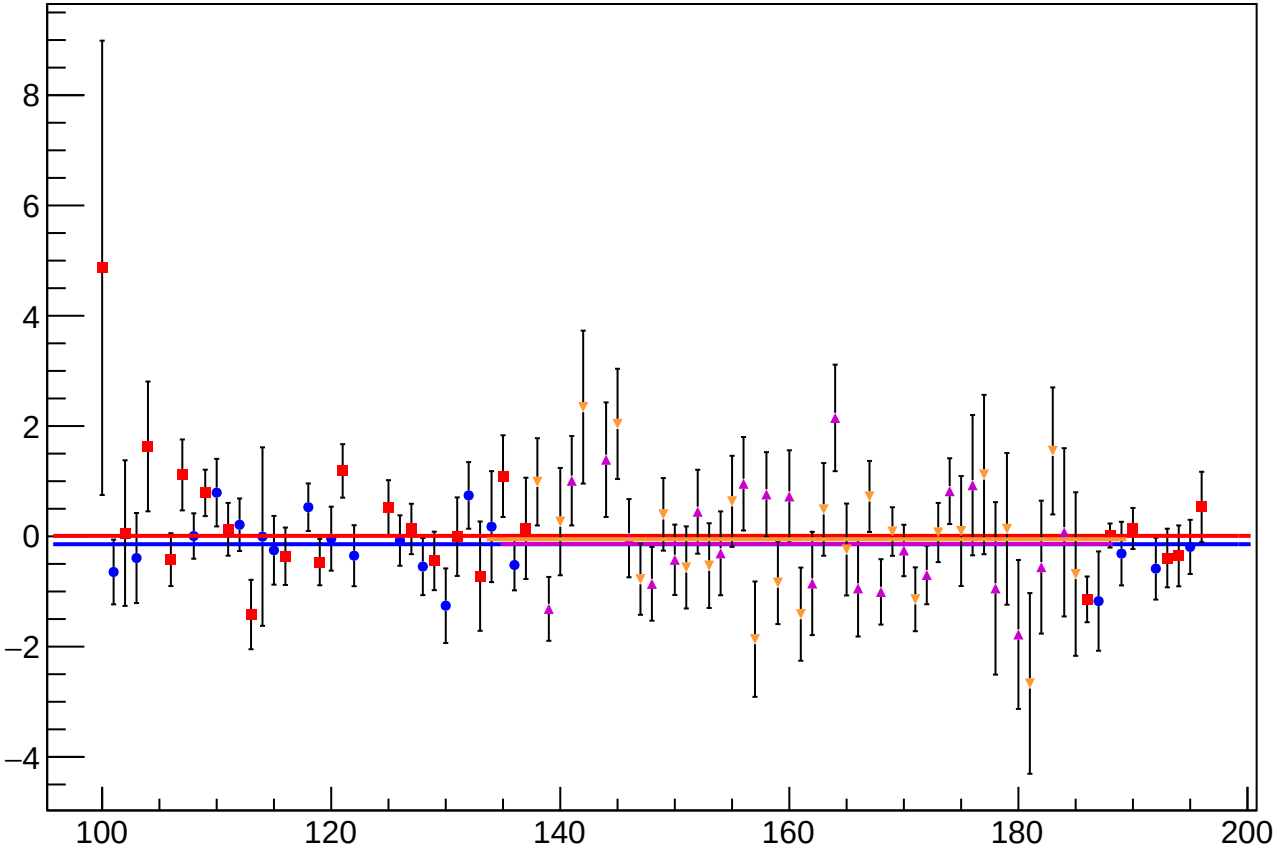
In: -0.141+/-0.099 $\chi^2$/NDF:44.7/42

Out: -0.009+/-0.086 $\chi^2$/NDF:67.7/47

All: -0.066+/-0.065 $\chi^2$/NDF: 113.4/90


asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected
1400
1200
1000
800
600
400
200
100
120
140
160
180
200
Right In: 373.508+/-0.089 χ²/NDF: 1037186.4/19
Left Out: 653.930+/-0.114 χ²/NDF:3124472.6/23
Right Out: 309.156+/-0.072 χ²/NDF: 2760570.5/23
Left In: 640.392+/-0.112 χ²/NDF:2647967.4/22
Left: 647.014+/-0.080 χ²/NDF: 5779634.4/46
Right: 334.584+/-0.056 χ²/NDF: 4111652.3/43
In: 477.698+/-0.070 χ²/NDF:7169739.9/42
Out: 407.769+/-0.061 χ²/NDF:12406898.0/47
All: 438.081+/-0.046 χ²/NDF: 20146134.9/90

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.143+/-0.126 $\chi^2$/NDF: 14.8/19

Left Out: -0.053+/-0.161 $\chi^2$/NDF:30.1/23

Right Out: 0.009+/-0.102 $\chi^2$/NDF: 37.4/23

Left In: -0.138+/-0.158 $\chi^2$/NDF:30.0/22

Left: -0.096+/-0.113 $\chi^2$/NDF: 60.2/46

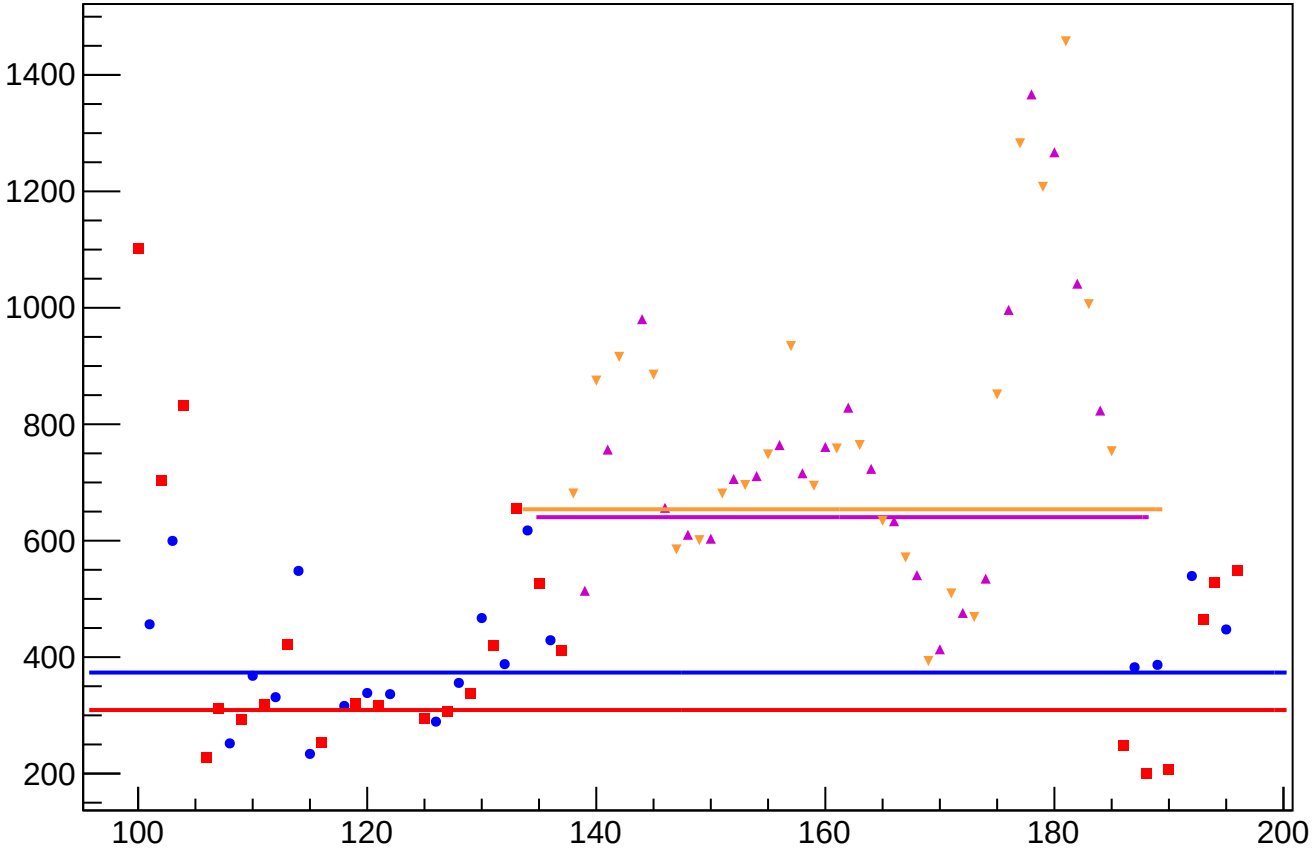
Right: -0.051+/-0.079 $\chi^2$/NDF: 53.0/43

In: -0.141+/-0.099 $\chi^2$/NDF:44.7/42

Out: -0.009+/-0.086 $\chi^2$/NDF:67.7/47

All: -0.066+/-0.065 $\chi^2$/NDF: 113.4/90

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 373.508+/-0.089 $\chi^2$/NDF: 1037186.4/19

Left Out: 653.930+/-0.114 $\chi^2$/NDF:3124472.6/23

Right Out: 309.156+/-0.072 $\chi^2$/NDF: 2760570.5/23

Left In: 640.392+/-0.112 $\chi^2$/NDF:2647967.4/22

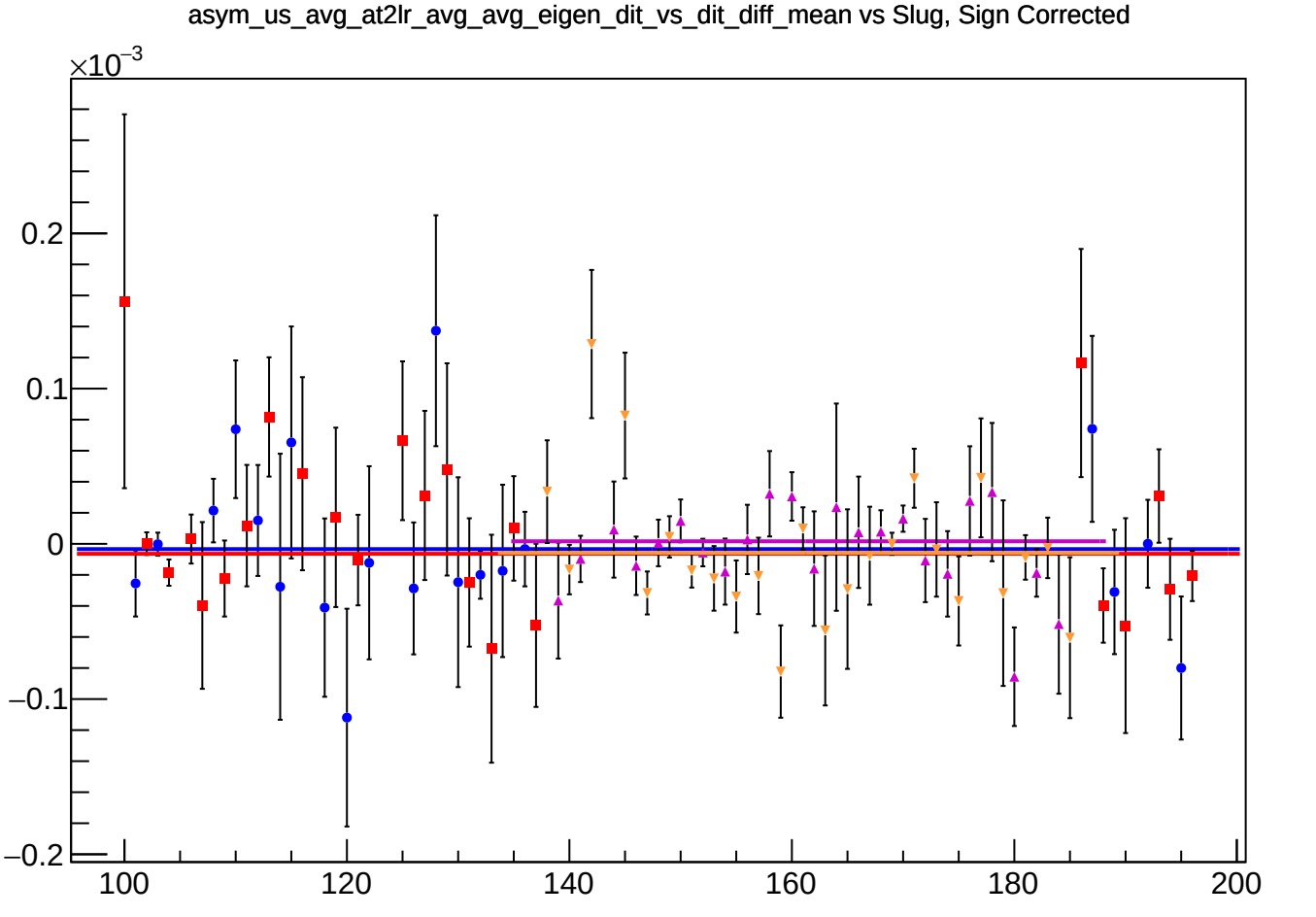
Left: 647.014+/-0.080 $\chi^2$/NDF: 5779634.4/46

Right: 334.584+/-0.056 $\chi^2$/NDF: 4111652.3/43

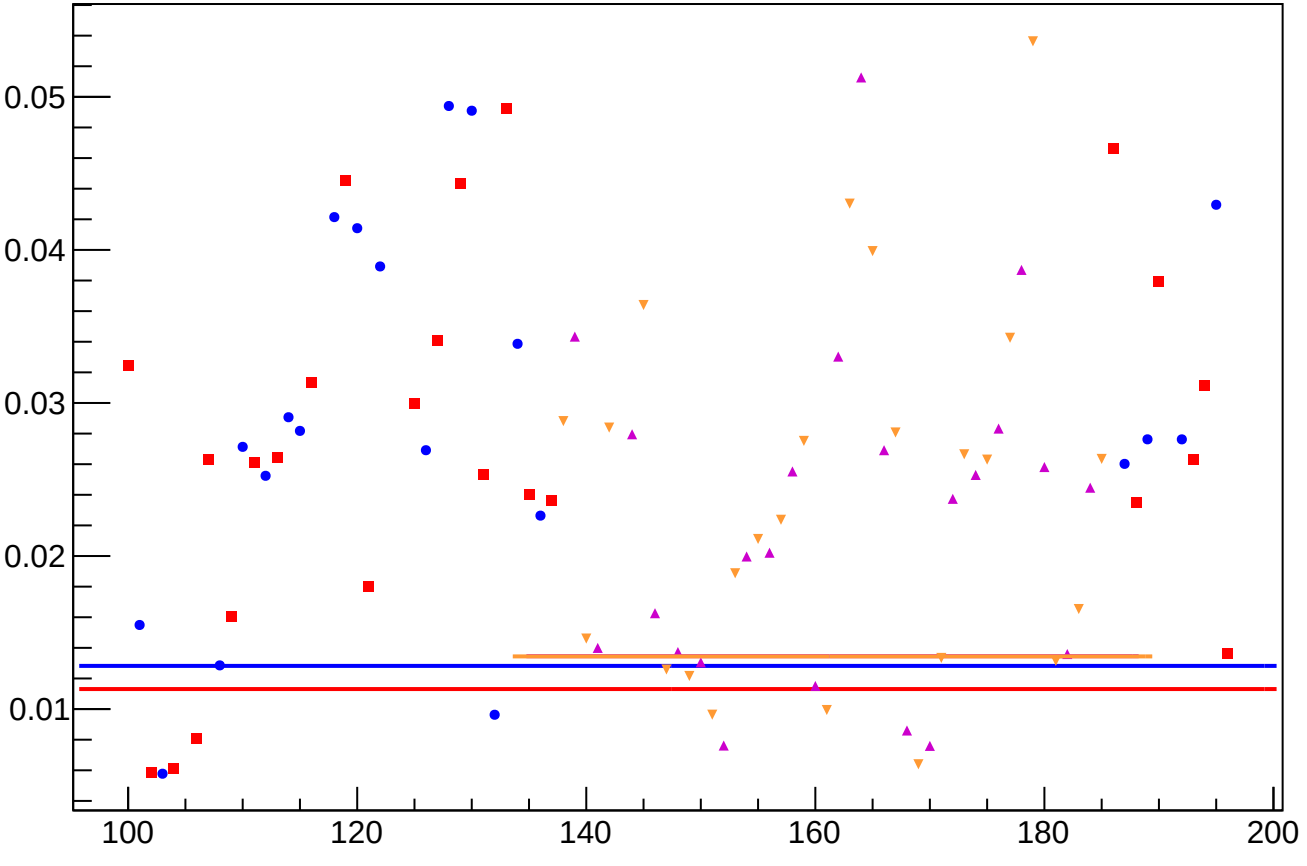
In: 477.698+/-0.070 $\chi^2$/NDF:7169739.9/42

Out: 407.769+/-0.061 $\chi^2$/NDF:12406898.0/47

All: 438.081+/-0.046 $\chi^2$/NDF: 20146134.9/90


asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.2
0.1
0
−0.1
−0.2
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 20.0/19
Left Out: -0.000+/-0.000 χ²/NDF:42.6/23
Right Out: -0.000+/-0.000 χ²/NDF: 25.2/23
Left In: 0.000+/-0.000 χ²/NDF:25.6/22
Left: -0.000+/-0.000 χ²/NDF: 70.2/46
Right: -0.000+/-0.000 χ²/NDF: 45.4/43
In: 0.000+/-0.000 χ²/NDF:46.2/42
Out: -0.000+/-0.000 χ²/NDF:67.8/47
All: -0.000+/-0.000 χ²/NDF: 116.1/90

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 7400351.2/19

Left Out: 0.013+/-0.000 $\chi^2$/NDF:8856192.5/23

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 8613924.7/23

Left In: 0.013+/-0.000 $\chi^2$/NDF:7548263.6/22

Left: 0.013+/-0.000 $\chi^2$/NDF: 16404470.0/46

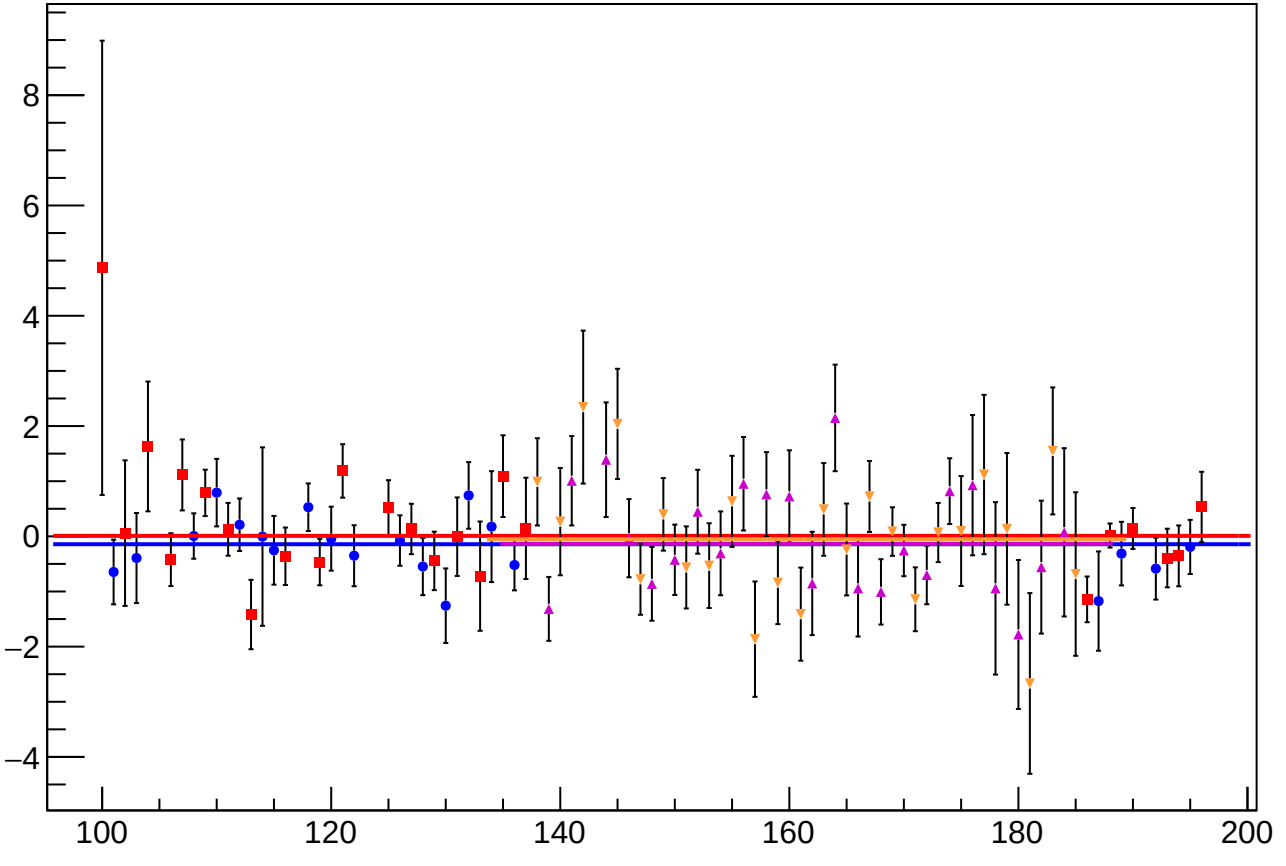
Right: 0.012+/-0.000 $\chi^2$/NDF: 16110580.4/43

In: 0.013+/-0.000 $\chi^2$/NDF:14967500.4/42

Out: 0.013+/-0.000 $\chi^2$/NDF:17748564.1/47

All: 0.013+/-0.000 $\chi^2$/NDF: 32773345.4/90

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.143+/-0.126 $\chi^2$/NDF: 14.8/19

Left Out: -0.053+/-0.161 $\chi^2$/NDF:30.1/23

Right Out: 0.009+/-0.102 $\chi^2$/NDF: 37.4/23

Left In: -0.138+/-0.158 $\chi^2$/NDF:30.0/22

Left: -0.096+/-0.113 $\chi^2$/NDF: 60.2/46

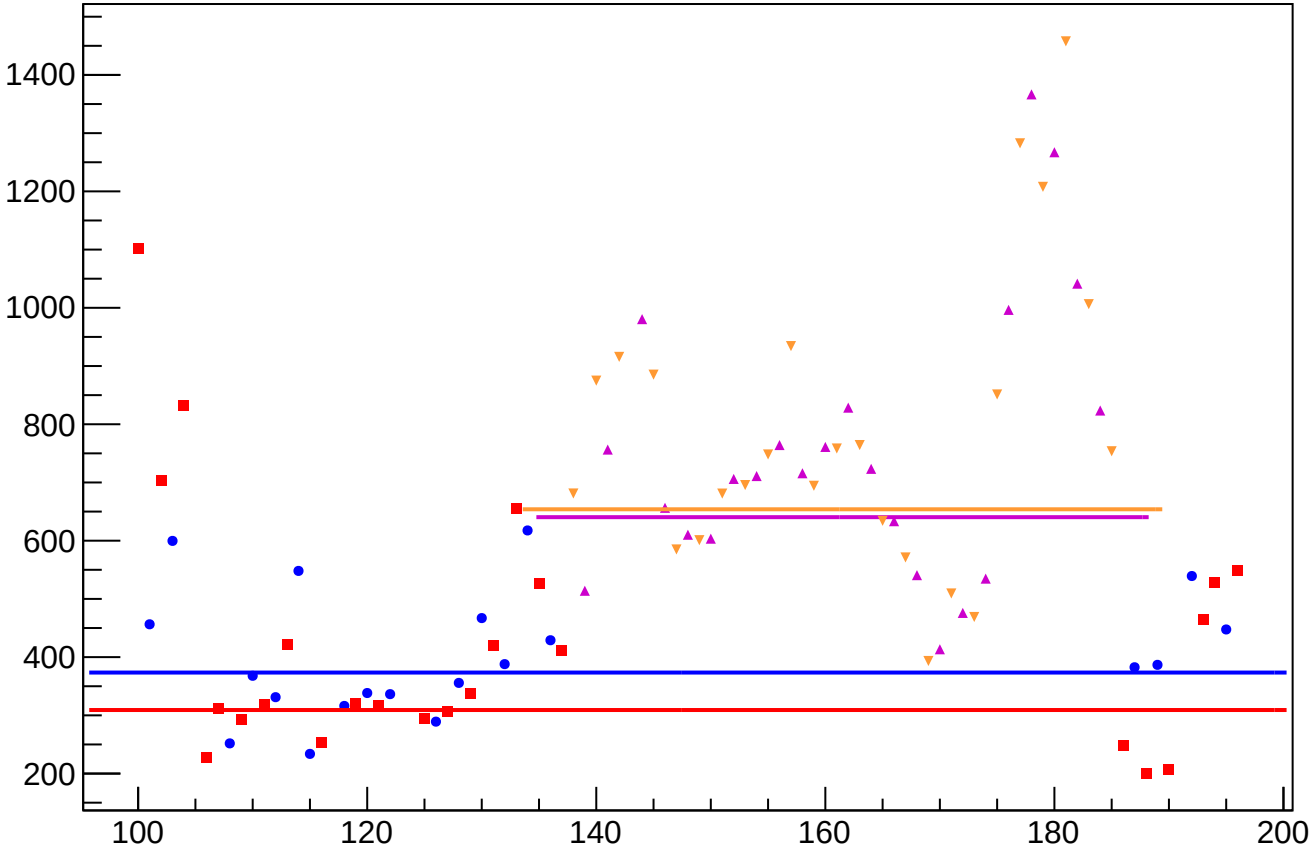
Right: -0.051+/-0.079 $\chi^2$/NDF: 53.0/43

In: -0.141+/-0.099 $\chi^2$/NDF:44.7/42

Out: -0.009+/-0.086 $\chi^2$/NDF:67.7/47

All: -0.066+/-0.065 $\chi^2$/NDF: 113.4/90

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 373.507+/-0.089 $\chi^2$/NDF: 1037148.6/19

Left Out: 653.930+/-0.114 $\chi^2$/NDF:3124692.9/23

Right Out: 309.149+/-0.072 $\chi^2$/NDF: 2760702.1/23

Left In: 640.395+/-0.112 $\chi^2$/NDF:2648118.2/22

Left: 647.016+/-0.080 $\chi^2$/NDF: 5780002.9/46

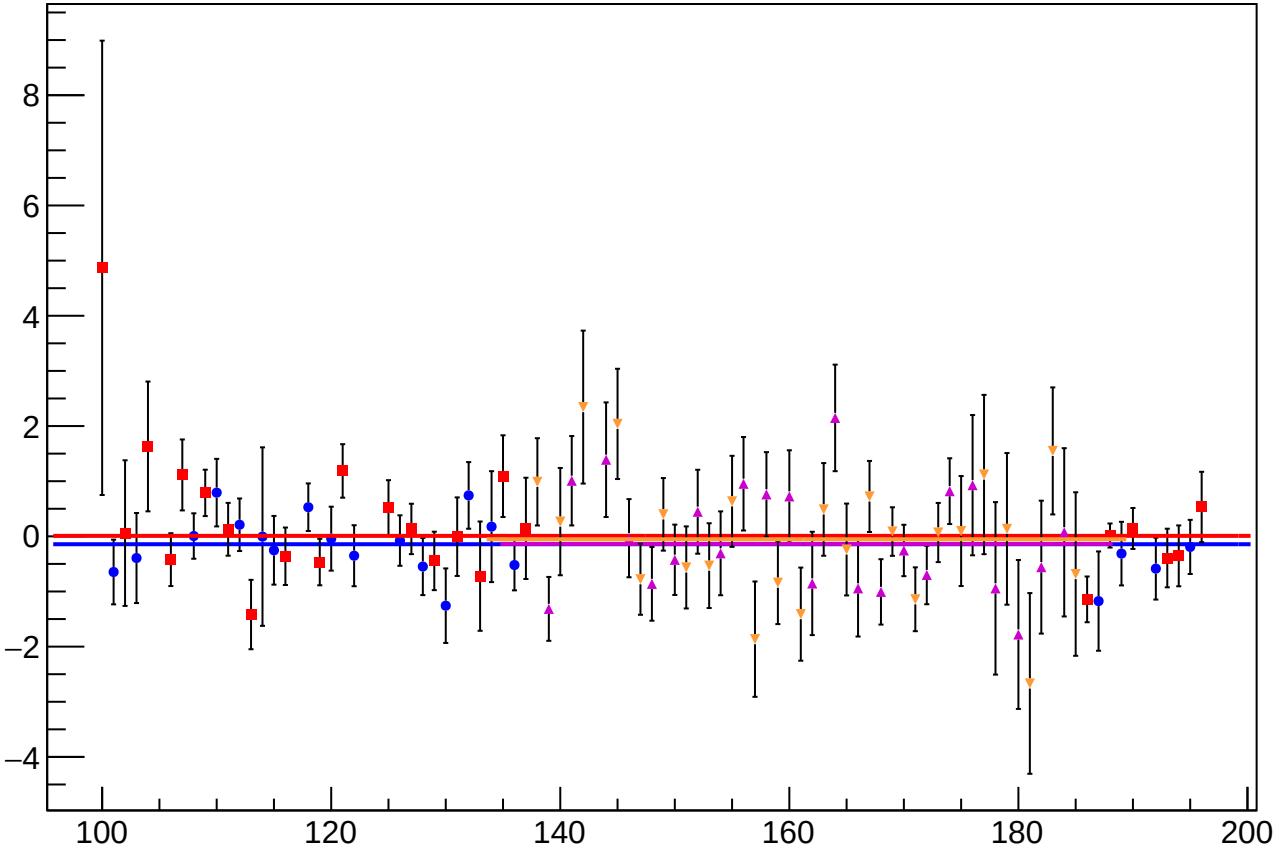
Right: 334.580+/-0.056 $\chi^2$/NDF: 4111804.4/43

In: 477.697+/-0.070 $\chi^2$/NDF:7169931.7/42

Out: 407.762+/-0.061 $\chi^2$/NDF:12407527.4/47

All: 438.076+/-0.046 $\chi^2$/NDF: 20147065.4/90

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.143+/-0.126 $\chi^2$/NDF: 14.8/19

Left Out: -0.053+/-0.161 $\chi^2$/NDF:30.1/23

Right Out: 0.009+/-0.102 $\chi^2$/NDF: 37.4/23

Left In: -0.138+/-0.158 $\chi^2$/NDF:30.0/22

Left: -0.096+/-0.113 $\chi^2$/NDF: 60.2/46

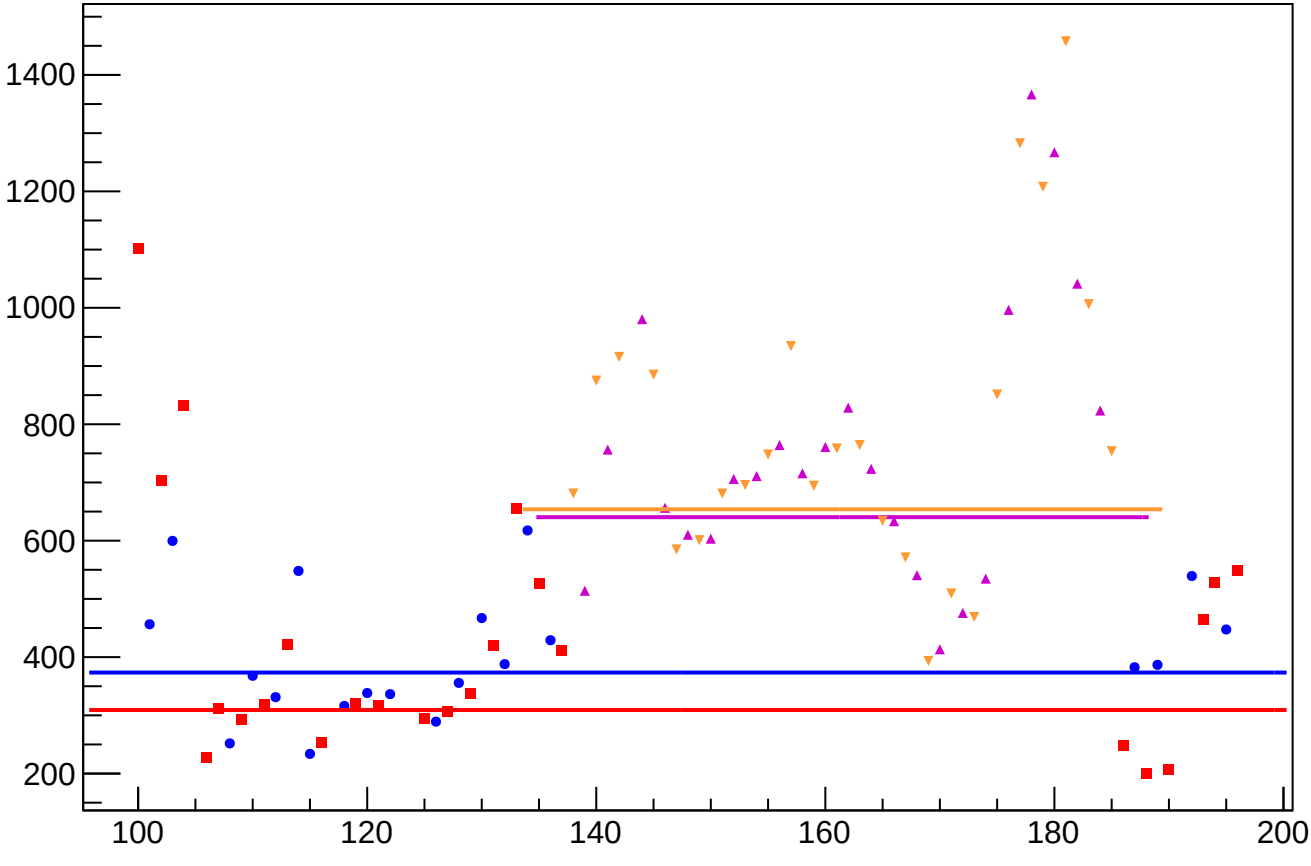
Right: -0.051+/-0.079 $\chi^2$/NDF: 53.0/43

In: -0.141+/-0.099 $\chi^2$/NDF:44.7/42

Out: -0.009+/-0.086 $\chi^2$/NDF:67.7/47

All: -0.066+/-0.065 $\chi^2$/NDF: 113.4/90

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 373.507+/-0.089 $\chi^2$/NDF: 1037148.6/19

Left Out: 653.930+/-0.114 $\chi^2$/NDF:3124692.9/23

Right Out: 309.149+/-0.072 $\chi^2$/NDF: 2760702.1/23

Left In: 640.395+/-0.112 $\chi^2$/NDF:2648118.2/22

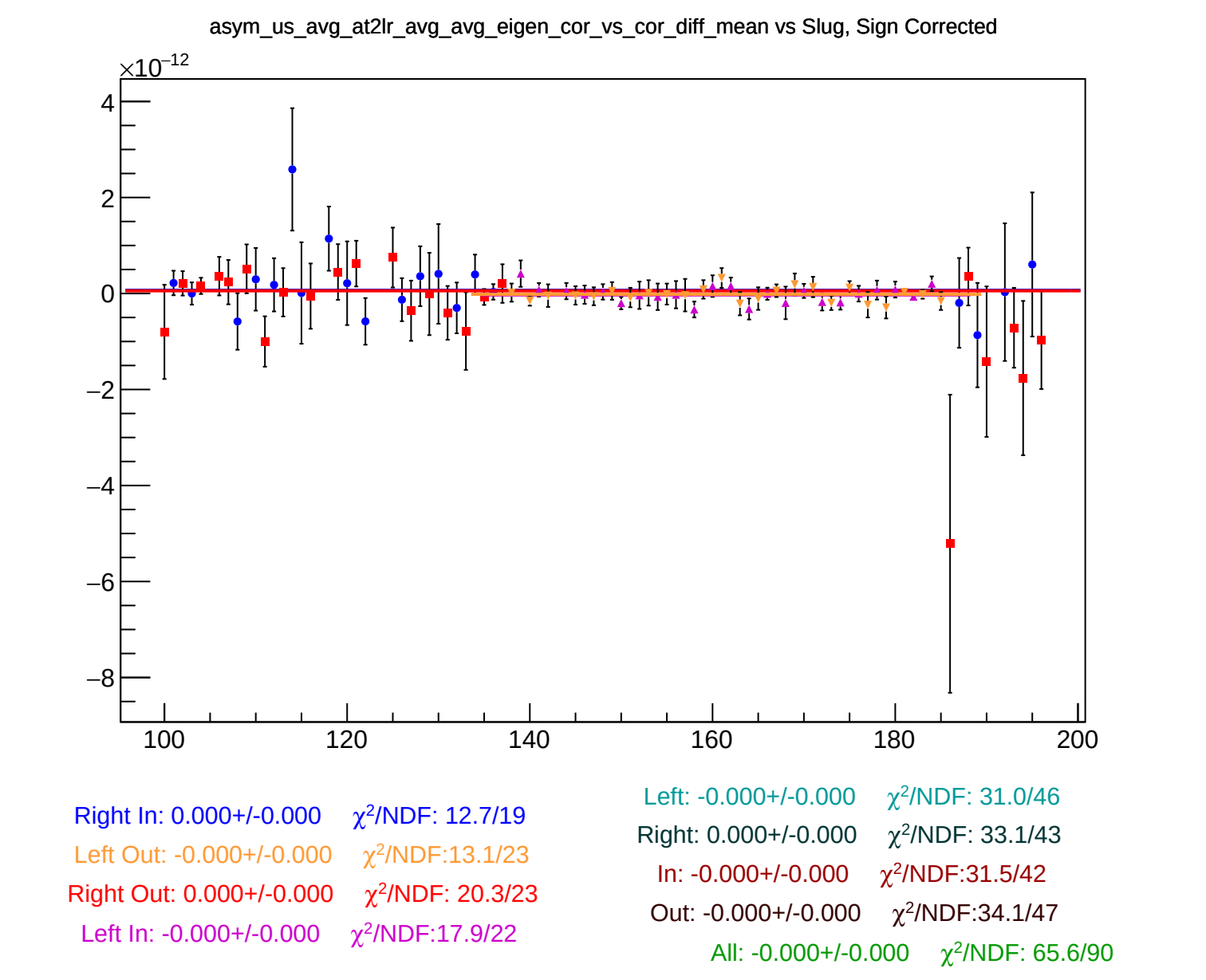
Left: 647.016+/-0.080 $\chi^2$/NDF: 5780002.9/46

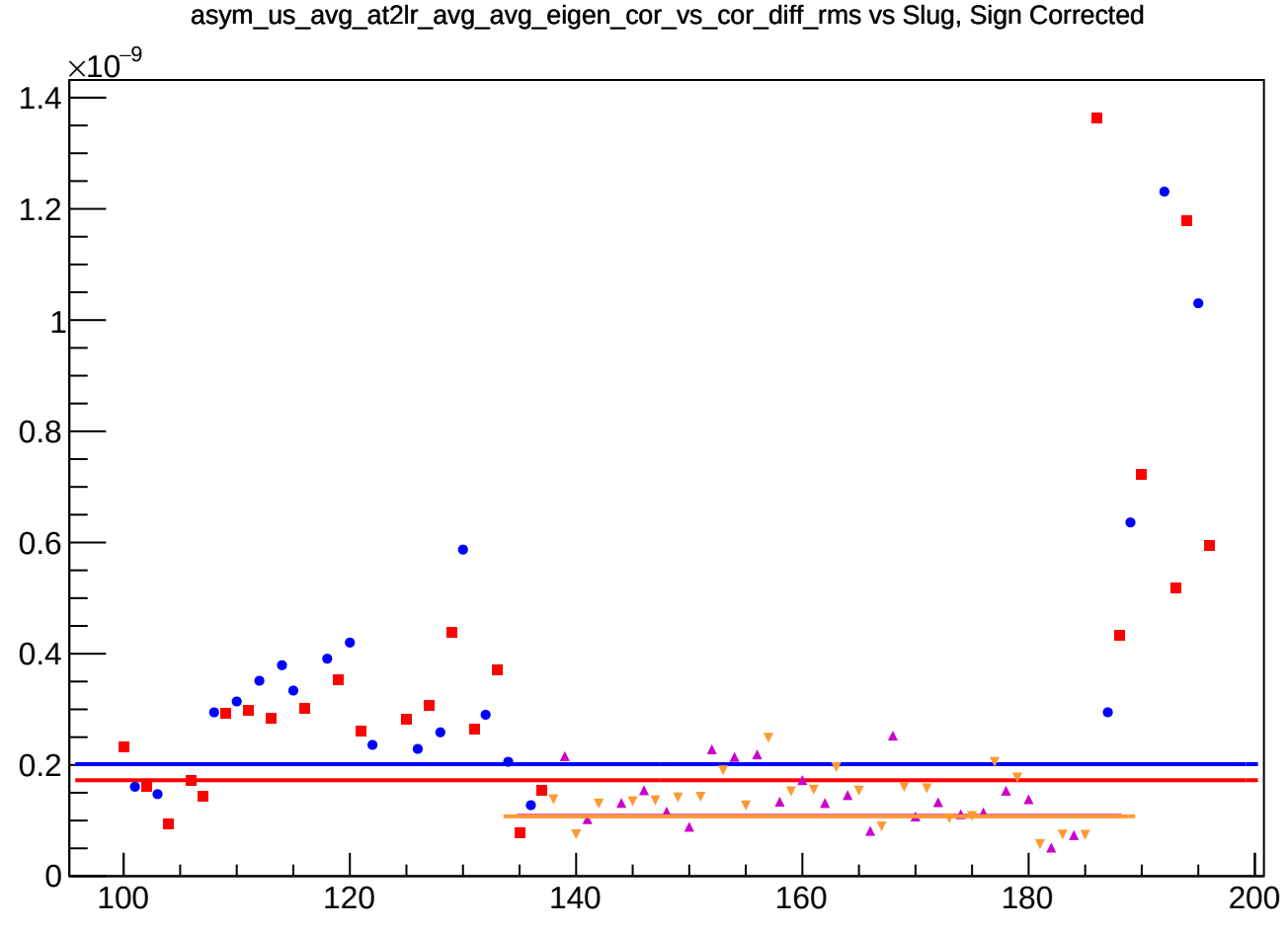
Right: 334.580+/-0.056 $\chi^2$/NDF: 4111804.4/43

In: 477.697+/-0.070 $\chi^2$/NDF:7169931.7/42

Out: 407.762+/-0.061 $\chi^2$/NDF:12407527.4/47

All: 438.076+/-0.046 $\chi^2$/NDF: 20147065.4/90


asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
2
0
−2
−4
−6
−8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 12.7/19
Left Out: -0.000+/-0.000 χ²/NDF:13.1/23
Right Out: 0.000+/-0.000 χ²/NDF: 20.3/23
Left In: -0.000+/-0.000 χ²/NDF:17.9/22
Left: -0.000+/-0.000 χ²/NDF: 31.0/46
Right: 0.000+/-0.000 χ²/NDF: 33.1/43
In: -0.000+/-0.000 χ²/NDF:31.5/42
Out: -0.000+/-0.000 χ²/NDF:34.1/47
All: -0.000+/-0.000 χ²/NDF: 65.6/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3535056.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3452023.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4668319.8/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:3869719.7/22

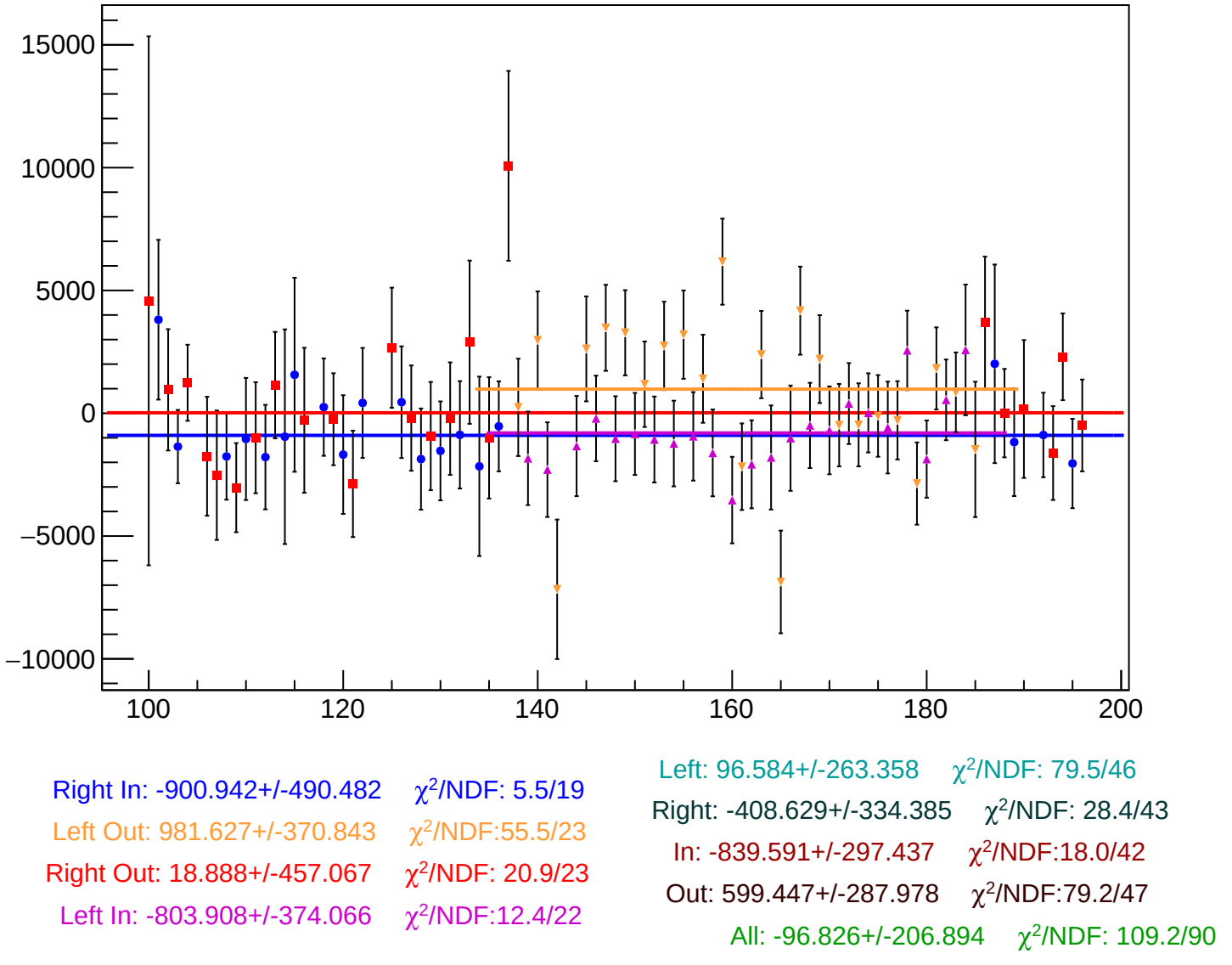
Left: 0.000+/-0.000 $\chi^2$/NDF: 7322414.2/46

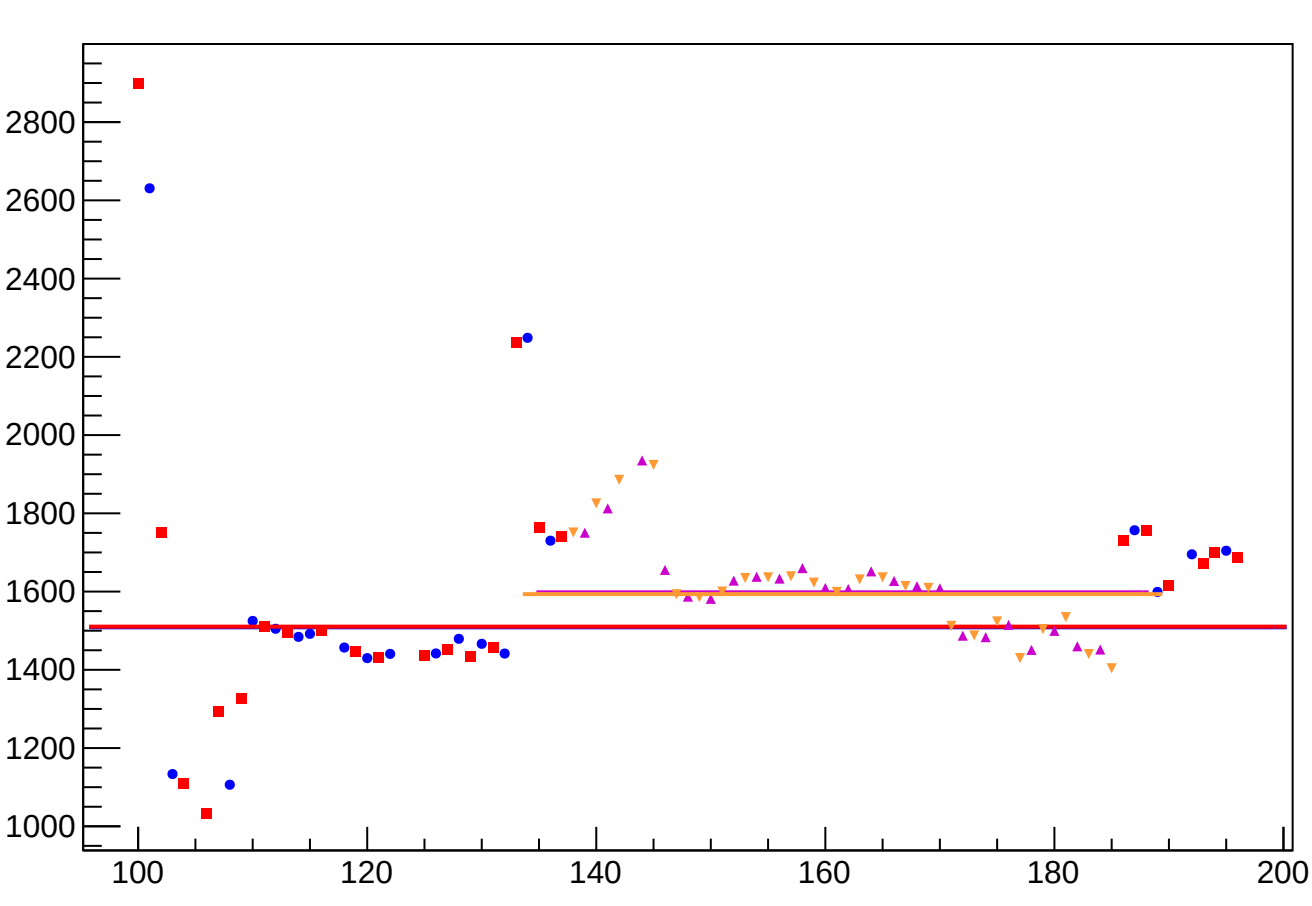
Right: 0.000+/-0.000 $\chi^2$/NDF: 8307389.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:9107822.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9162090.6/47

All: 0.000+/-0.000 $\chi^2$/NDF: 18274669.5/90


reg_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -900.942+/-490.482 χ²/NDF: 5.5/19
Left Out: 981.627+/-370.843 χ²/NDF:55.5/23
Right Out: 18.888+/-457.067 χ²/NDF: 20.9/23
Left In: -803.908+/-374.066 χ²/NDF:12.4/22
Left: 96.584+/-263.358 χ²/NDF: 79.5/46
Right: -408.629+/-334.385 χ²/NDF: 28.4/43
In: -839.591+/-297.437 χ²/NDF:18.0/42
Out: 599.447+/-287.978 χ²/NDF:79.2/47
All: -96.826+/-206.894 χ²/NDF: 109.2/90




Right In: 1508.689+/-0.347 $\chi^2$/NDF: 648290.8/19

Left Out: 1593.482+/-0.262 $\chi^2$/NDF:187613.7/23

Right Out: 1510.381+/-0.322 $\chi^2$/NDF: 564979.4/23

Left In: 1598.119+/-0.265 $\chi^2$/NDF:169157.7/22

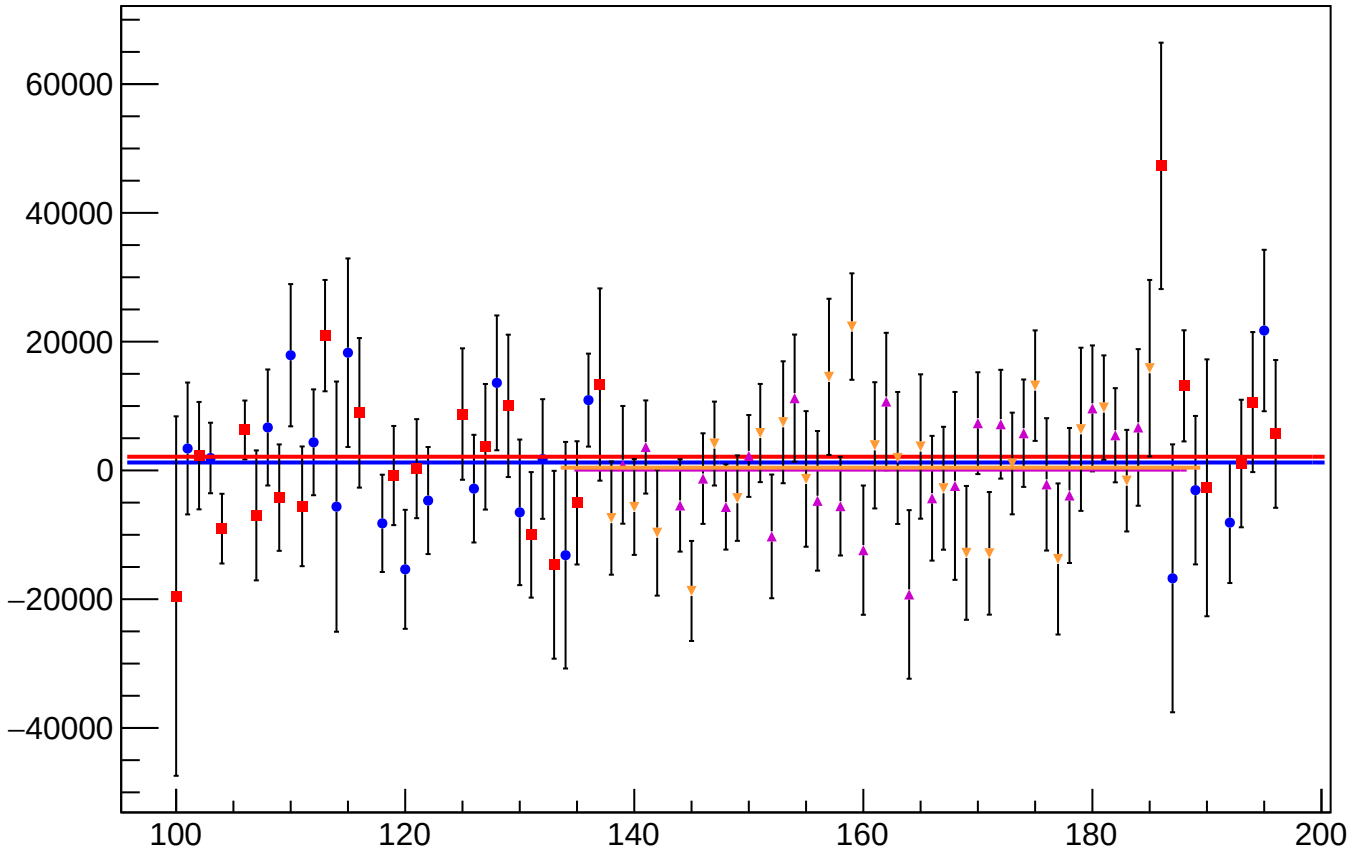
Left: 1595.780+/-0.186 $\chi^2$/NDF: 356926.4/46

Right: 1509.599+/-0.236 $\chi^2$/NDF: 1213283.0/43

In: 1565.232+/-0.210 $\chi^2$/NDF:859486.2/42

Out: 1560.287+/-0.203 $\chi^2$/NDF:792709.8/47

All: 1562.675+/-0.146 $\chi^2$/NDF: 1652481.9/90




Right In: 1232.736+/-2122.621 $\chi^2$/NDF: 18.7/19

Left Out: 426.701+/-1819.878 $\chi^2$/NDF:29.4/23

Right Out: 2124.643+/-1850.440 $\chi^2$/NDF: 26.0/23

Left In: 126.369+/-1814.830 $\chi^2$/NDF:13.9/22

Left: 276.118+/-1285.060 $\chi^2$/NDF: 43.3/46

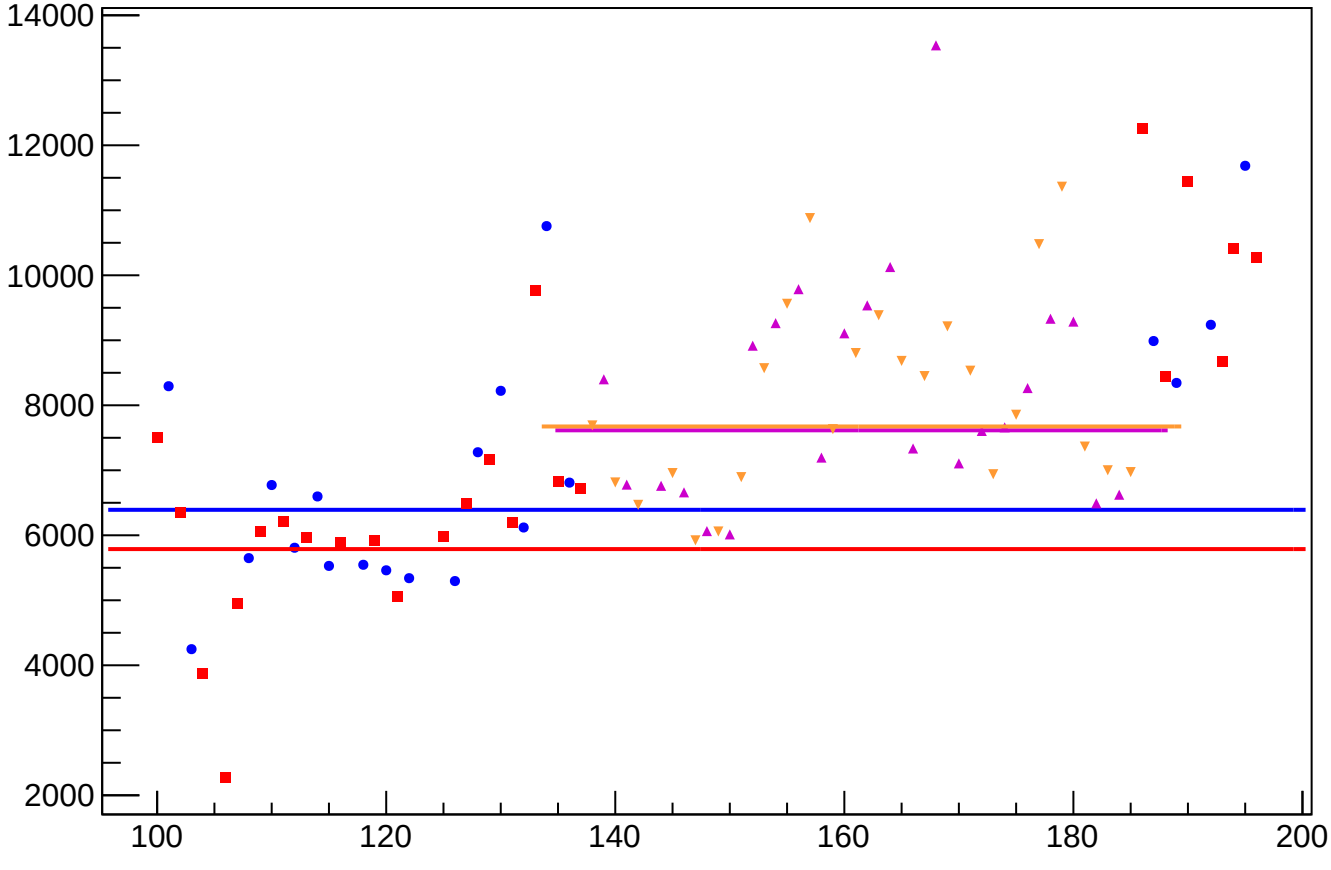
Right: 1739.506+/-1394.827 $\chi^2$/NDF: 44.8/43

In: 593.593+/-1379.385 $\chi^2$/NDF:32.8/42

Out: 1261.535+/-1297.518 $\chi^2$/NDF:55.8/47

All: 947.972+/-945.101 $\chi^2$/NDF: 88.7/90

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 6391.904+/-1.501 $\chi^2$/NDF: 1347286.9/19

Left Out: 7674.060+/-1.287 $\chi^2$/NDF:1076713.7/23

Right Out: 5787.722+/-1.308 $\chi^2$/NDF: 3130255.3/23

Left In: 7614.974+/-1.283 $\chi^2$/NDF:1224520.2/22

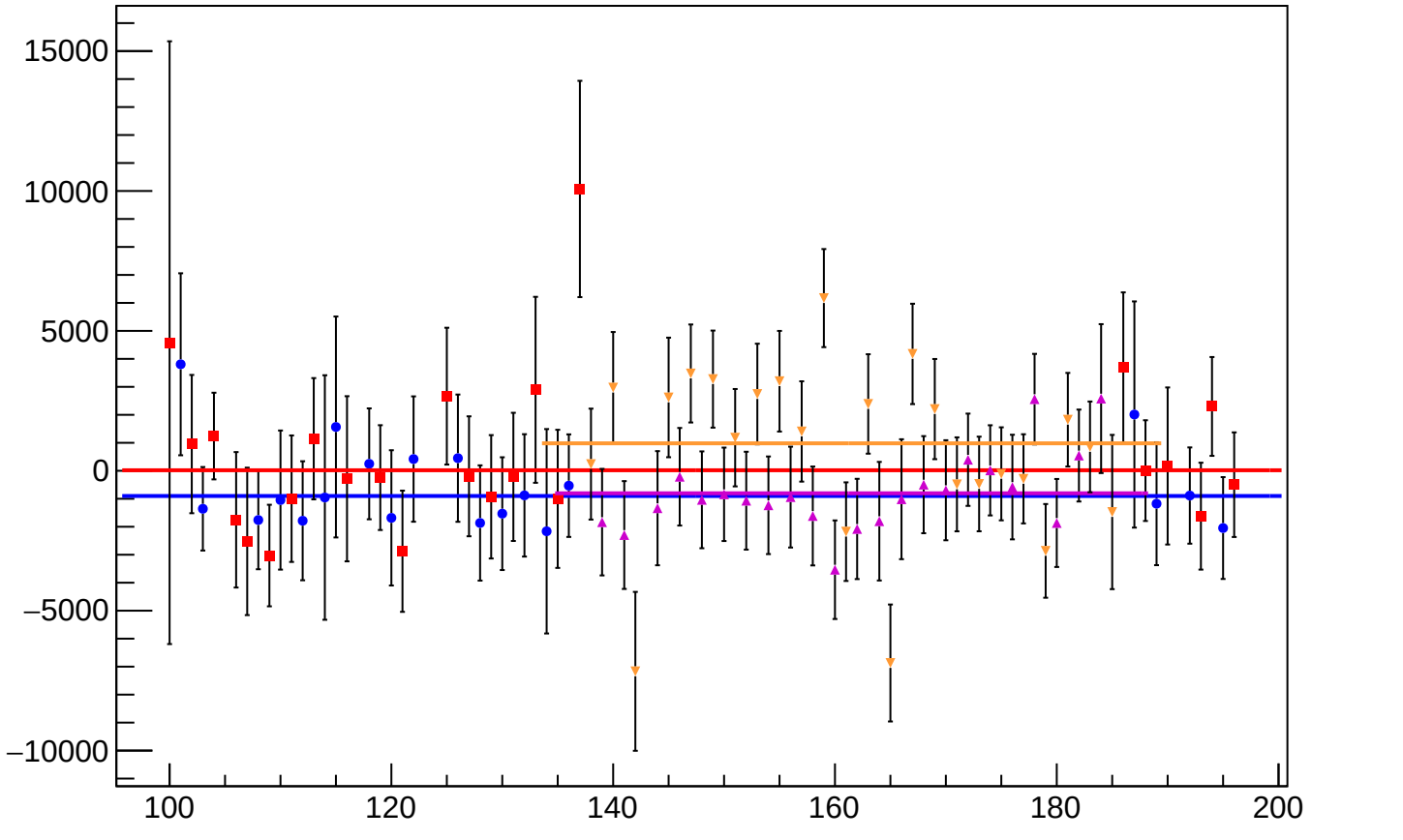
Left: 7644.435+/-0.909 $\chi^2$/NDF: 2302291.0/46

Right: 6048.616+/-0.986 $\chi^2$/NDF: 4569610.8/43

In: 7098.466+/-0.975 $\chi^2$/NDF:2955414.0/42

Out: 6746.597+/-0.917 $\chi^2$/NDF:5263449.2/47

All: 6911.780+/-0.668 $\chi^2$/NDF: 8287911.0/90




Right In: -901.015+/-490.482 $\chi^2$/NDF: 5.5/19

Left Out: 981.712+/-370.843 $\chi^2$/NDF:55.6/23

Right Out: 18.983+/-457.067 $\chi^2$/NDF: 20.9/23

Left In: -803.783+/-374.066 $\chi^2$/NDF:12.4/22

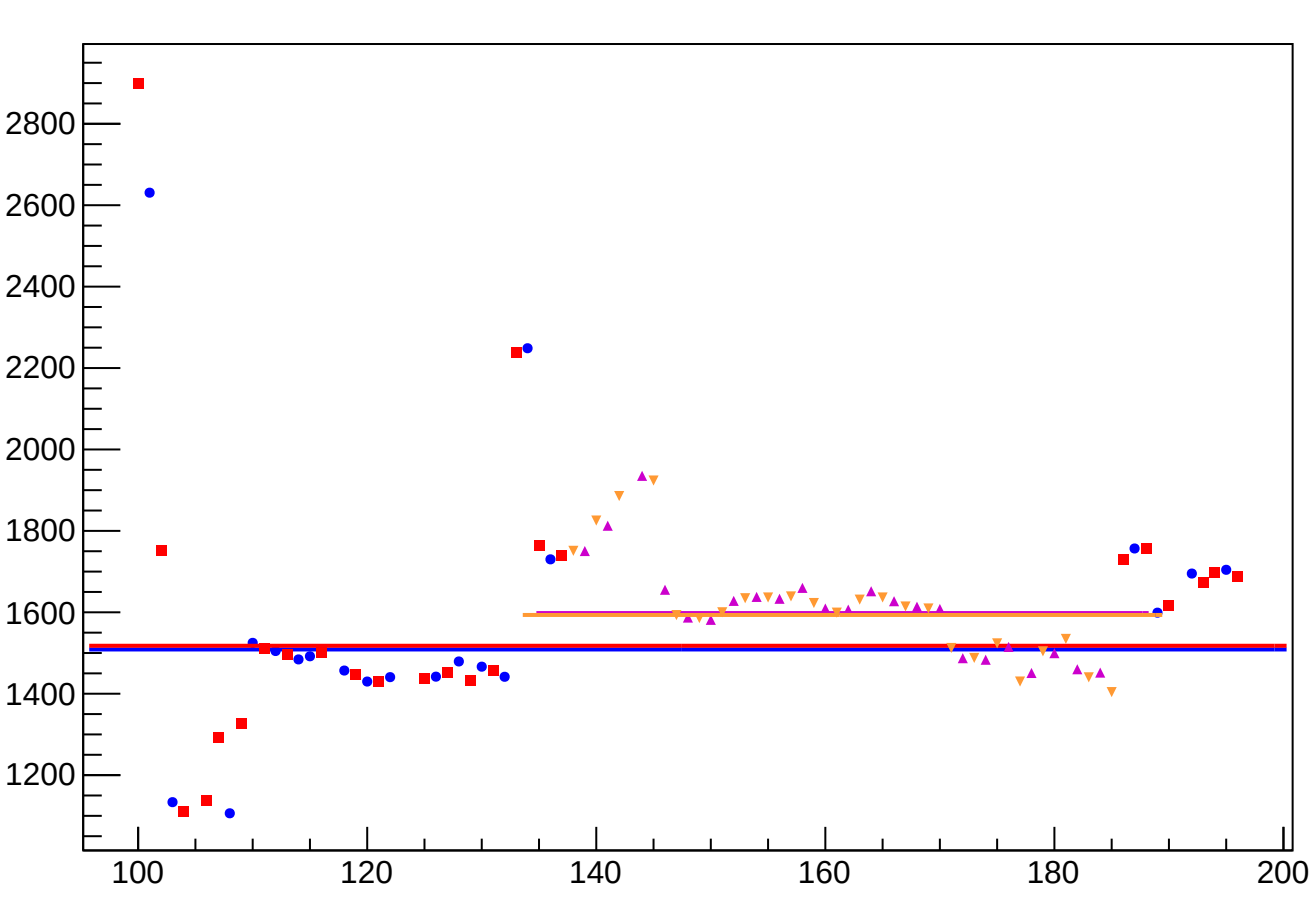
Left: 96.688+/-263.358 $\chi^2$/NDF: 79.5/46

Right: -408.612+/-334.385 $\chi^2$/NDF: 28.4/43

In: -839.540+/-297.437 $\chi^2$/NDF:18.0/42

Out: 599.536+/-287.978 $\chi^2$/NDF:79.2/47

All: -96.756+/-206.894 $\chi^2$/NDF: 109.2/90




Right In: 1508.689+/-0.347 $\chi^2$/NDF: 648291.1/19

Left Out: 1593.482+/-0.262 $\chi^2$/NDF:187613.7/23

Right Out: 1517.813+/-0.323 $\chi^2$/NDF: 516025.5/23

Left In: 1598.119+/-0.265 $\chi^2$/NDF:169157.7/22

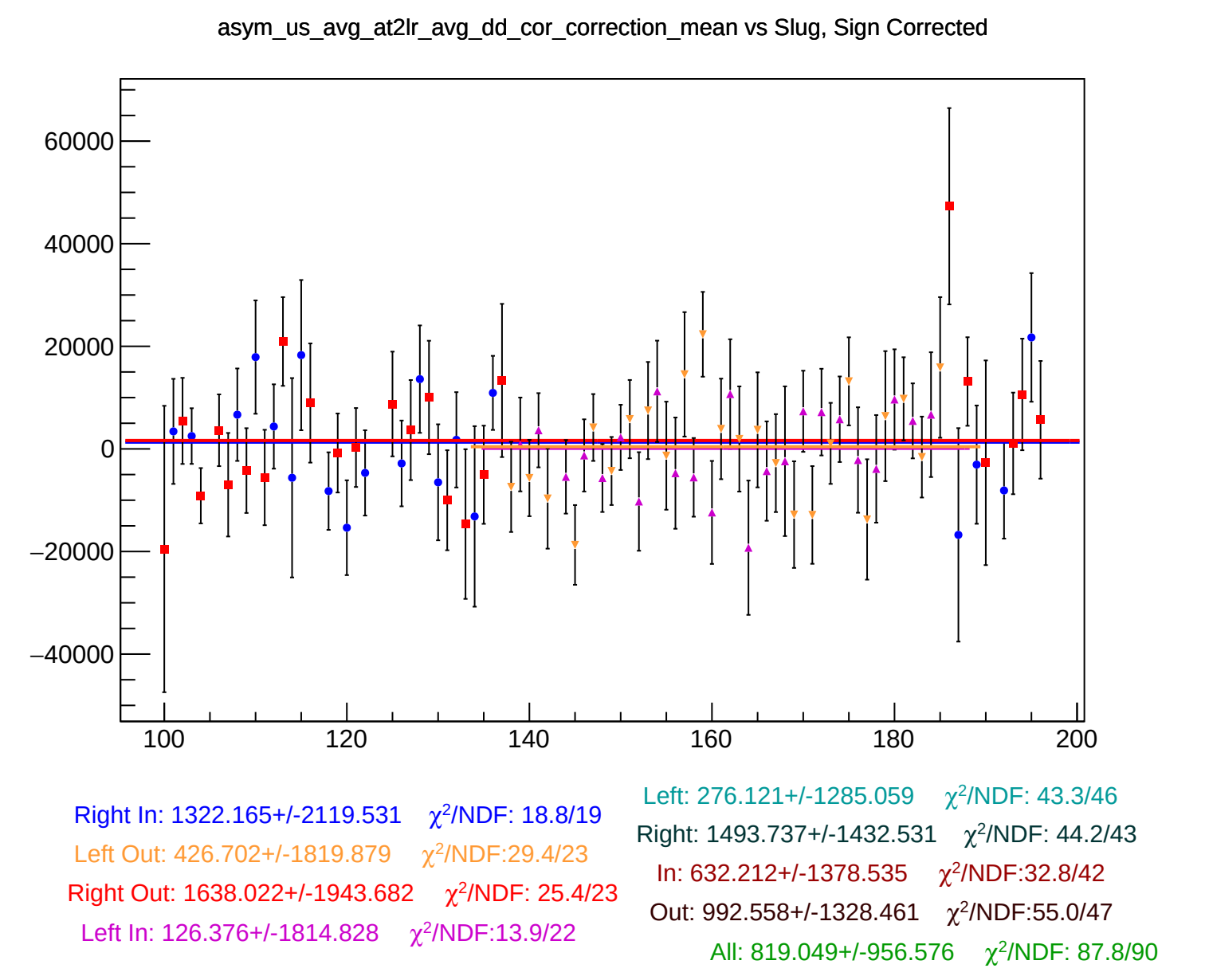
Left: 1595.780+/-0.186 $\chi^2$/NDF: 356926.4/46

Right: 1513.580+/-0.236 $\chi^2$/NDF: 1164687.6/43

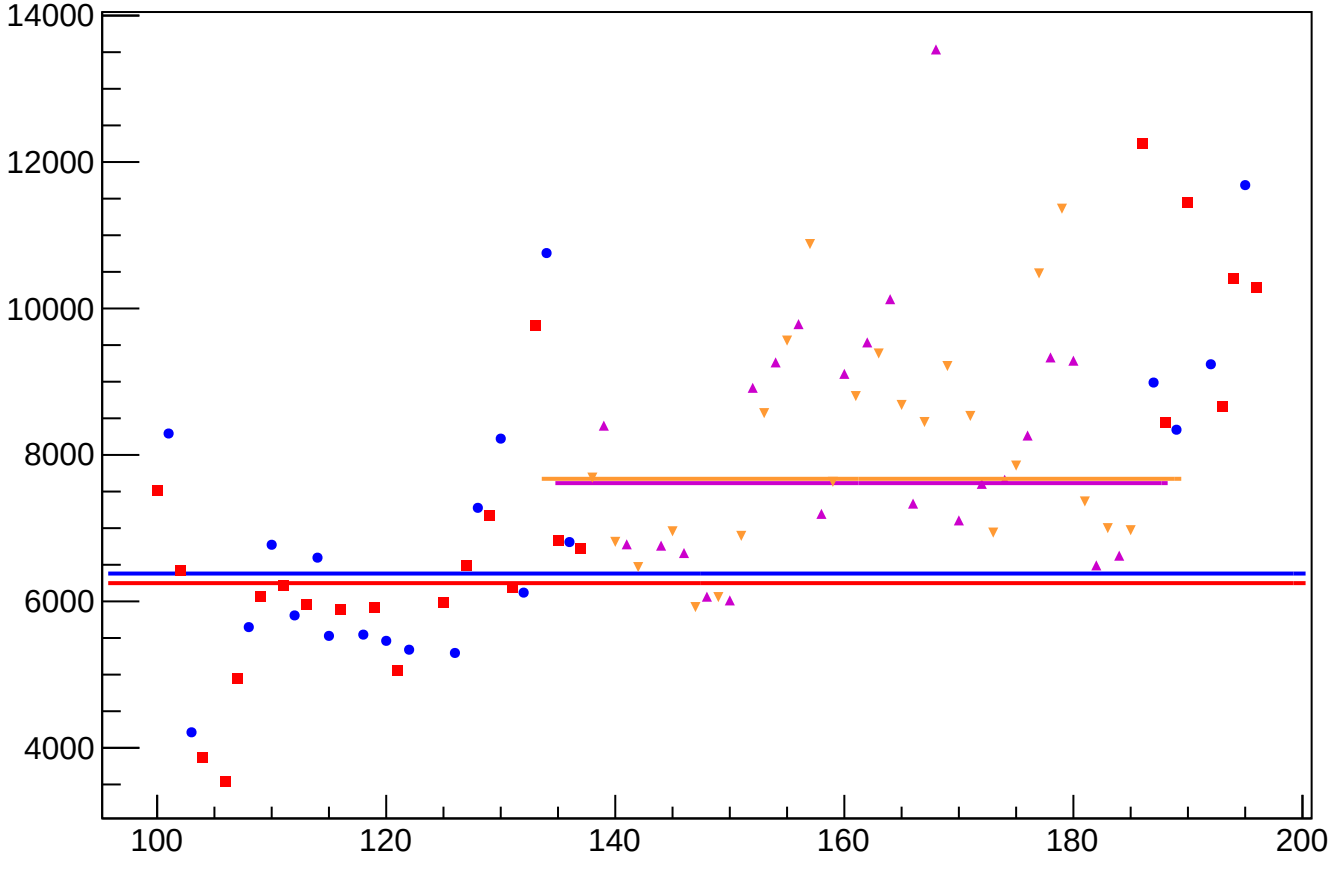
In: 1565.232+/-0.210 $\chi^2$/NDF:859486.6/42

Out: 1563.386+/-0.204 $\chi^2$/NDF:736758.4/47

All: 1564.278+/-0.146 $\chi^2$/NDF: 1596284.8/90


asym_us_avg_at2lr_avg_dd_cor_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
−40000
100
120
140
160
180
200
Right In: 1322.165+/-2119.531 χ²/NDF: 18.8/19
Left Out: 426.702+/-1819.879 χ²/NDF:29.4/23
Right Out: 1638.022+/-1943.682 χ²/NDF: 25.4/23
Left In: 126.376+/-1814.828 χ²/NDF:13.9/22
Left: 276.121+/-1285.059 χ²/NDF: 43.3/46
Right: 1493.737+/-1432.531 χ²/NDF: 44.2/43
In: 632.212+/-1378.535 χ²/NDF:32.8/42
Out: 992.558+/-1328.461 χ²/NDF:55.0/47
All: 819.049+/-956.576 χ²/NDF: 87.8/90

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 6380.205+/-1.499 $\chi^2$/NDF: 1363617.2/19

Left Out: 7674.063+/-1.287 $\chi^2$/NDF:1076712.6/23

Right Out: 6249.290+/-1.374 $\chi^2$/NDF: 2047867.4/23

Left In: 7614.964+/-1.283 $\chi^2$/NDF:1224525.6/22

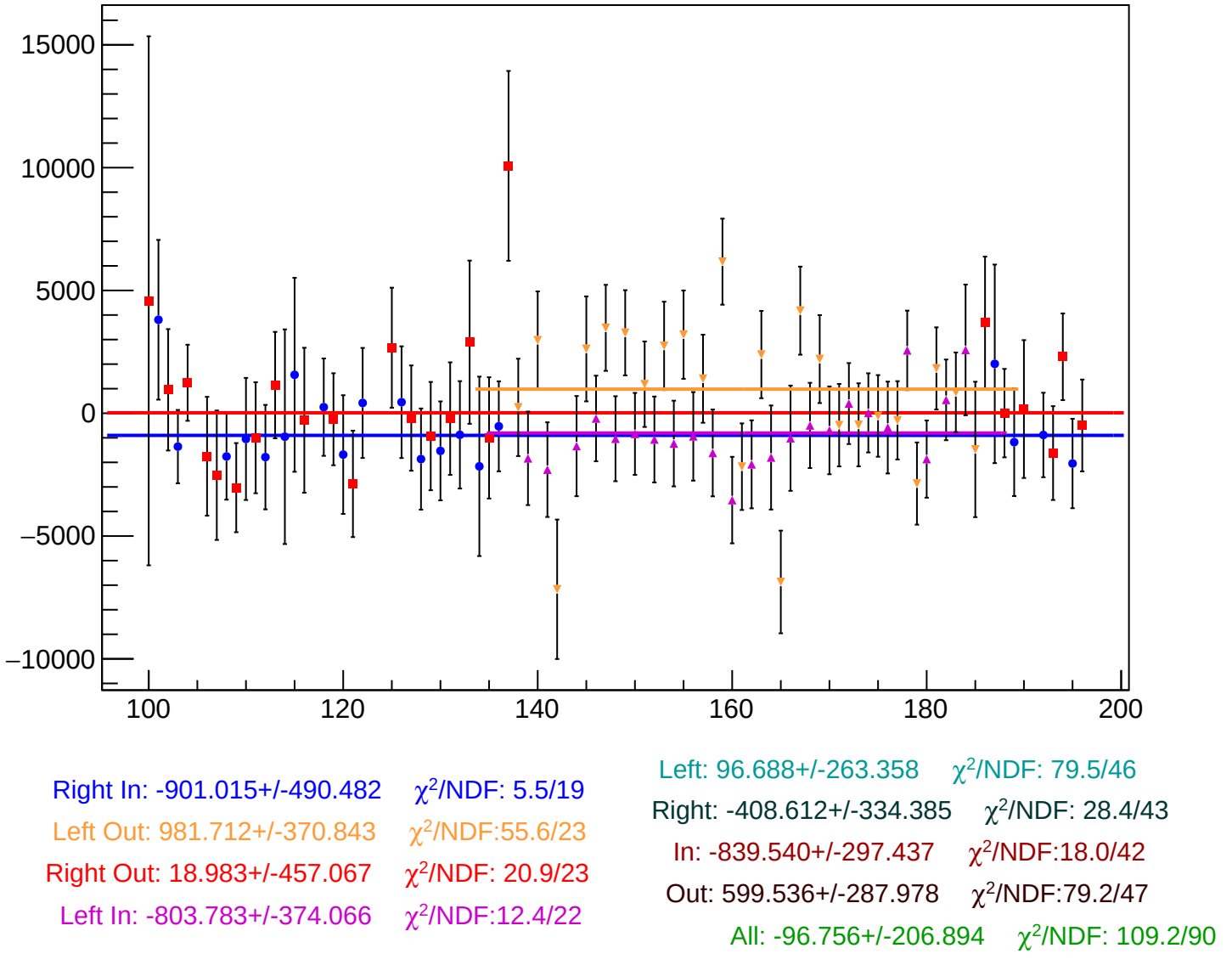
Left: 7644.431+/-0.909 $\chi^2$/NDF: 2302295.7/46

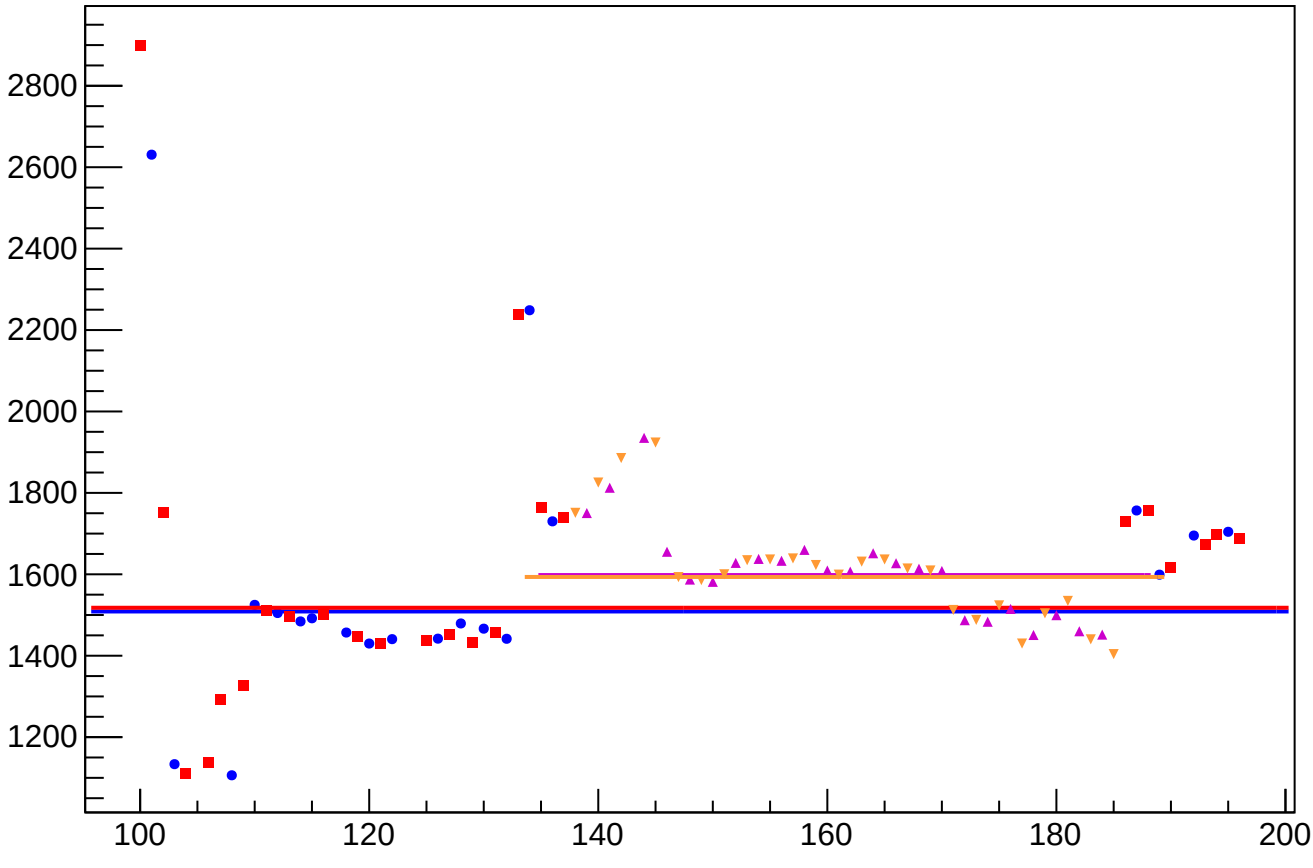
Right: 6309.093+/-1.013 $\chi^2$/NDF: 3415629.2/43

In: 7092.642+/-0.975 $\chi^2$/NDF:2979775.9/42

Out: 7008.494+/-0.939 $\chi^2$/NDF:3697222.2/47

All: 7049.012+/-0.676 $\chi^2$/NDF: 6680862.1/90


eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -901.015+/-490.482 χ²/NDF: 5.5/19
Left Out: 981.712+/-370.843 χ²/NDF:55.6/23
Right Out: 18.983+/-457.067 χ²/NDF: 20.9/23
Left In: -803.783+/-374.066 χ²/NDF:12.4/22
Left: 96.688+/-263.358 χ²/NDF: 79.5/46
Right: -408.612+/-334.385 χ²/NDF: 28.4/43
In: -839.540+/-297.437 χ²/NDF:18.0/42
Out: 599.536+/-287.978 χ²/NDF:79.2/47
All: -96.756+/-206.894 χ²/NDF: 109.2/90




Right In: 1508.689+/-0.347 $\chi^2$/NDF: 648291.1/19

Left Out: 1593.482+/-0.262 $\chi^2$/NDF:187613.7/23

Right Out: 1517.813+/-0.323 $\chi^2$/NDF: 516025.5/23

Left In: 1598.119+/-0.265 $\chi^2$/NDF:169157.7/22

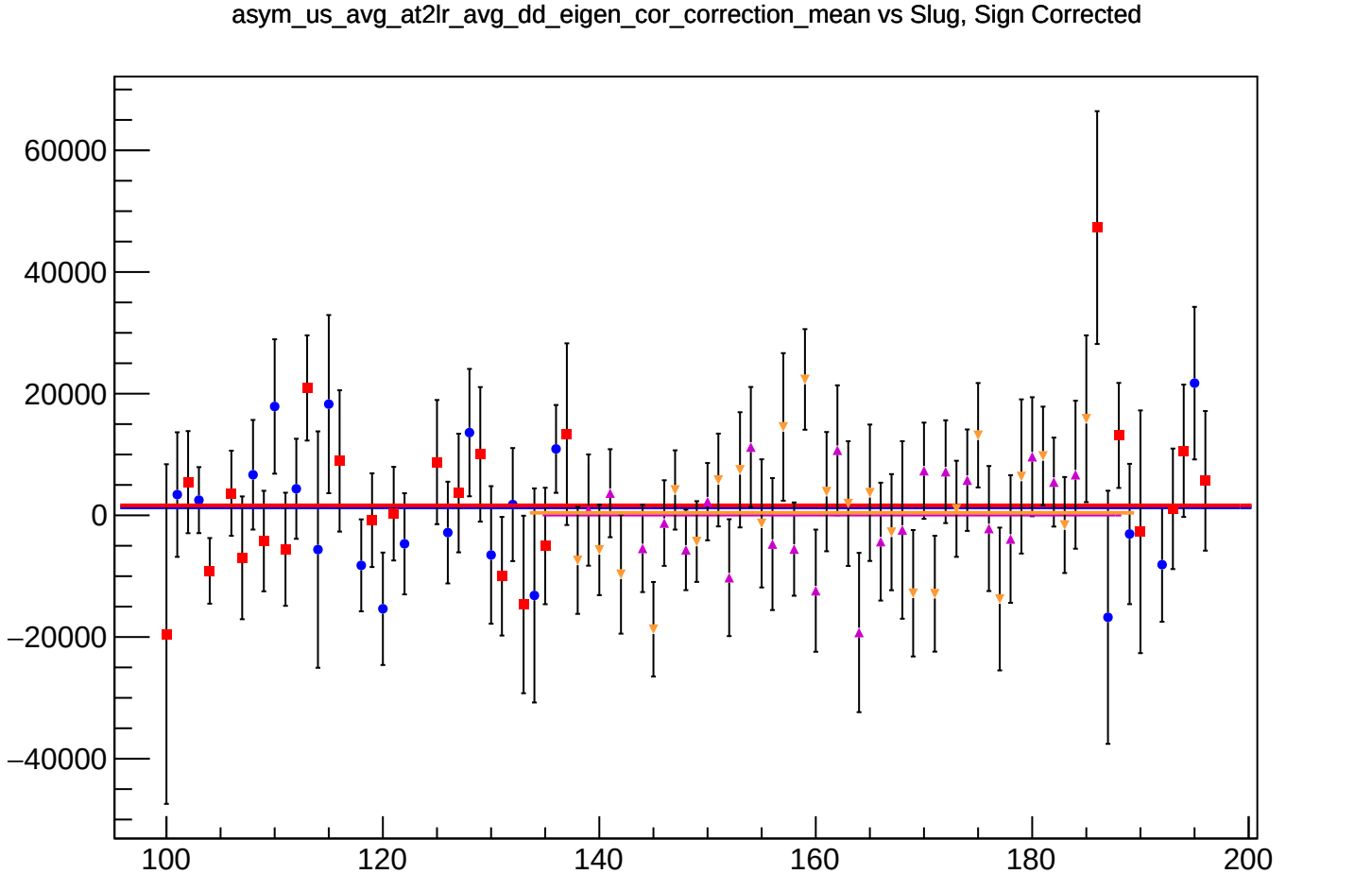
Left: 1595.780+/-0.186 $\chi^2$/NDF: 356926.4/46

Right: 1513.580+/-0.236 $\chi^2$/NDF: 1164687.6/43

In: 1565.232+/-0.210 $\chi^2$/NDF:859486.6/42

Out: 1563.386+/-0.204 $\chi^2$/NDF:736758.4/47

All: 1564.278+/-0.146 $\chi^2$/NDF: 1596284.8/90




Right In: 1322.165+/-2119.531 $\chi^2$/NDF: 18.8/19

Left Out: 426.702+/-1819.879 $\chi^2$/NDF:29.4/23

Right Out: 1638.022+/-1943.682 $\chi^2$/NDF: 25.4/23

Left In: 126.376+/-1814.828 $\chi^2$/NDF:13.9/22

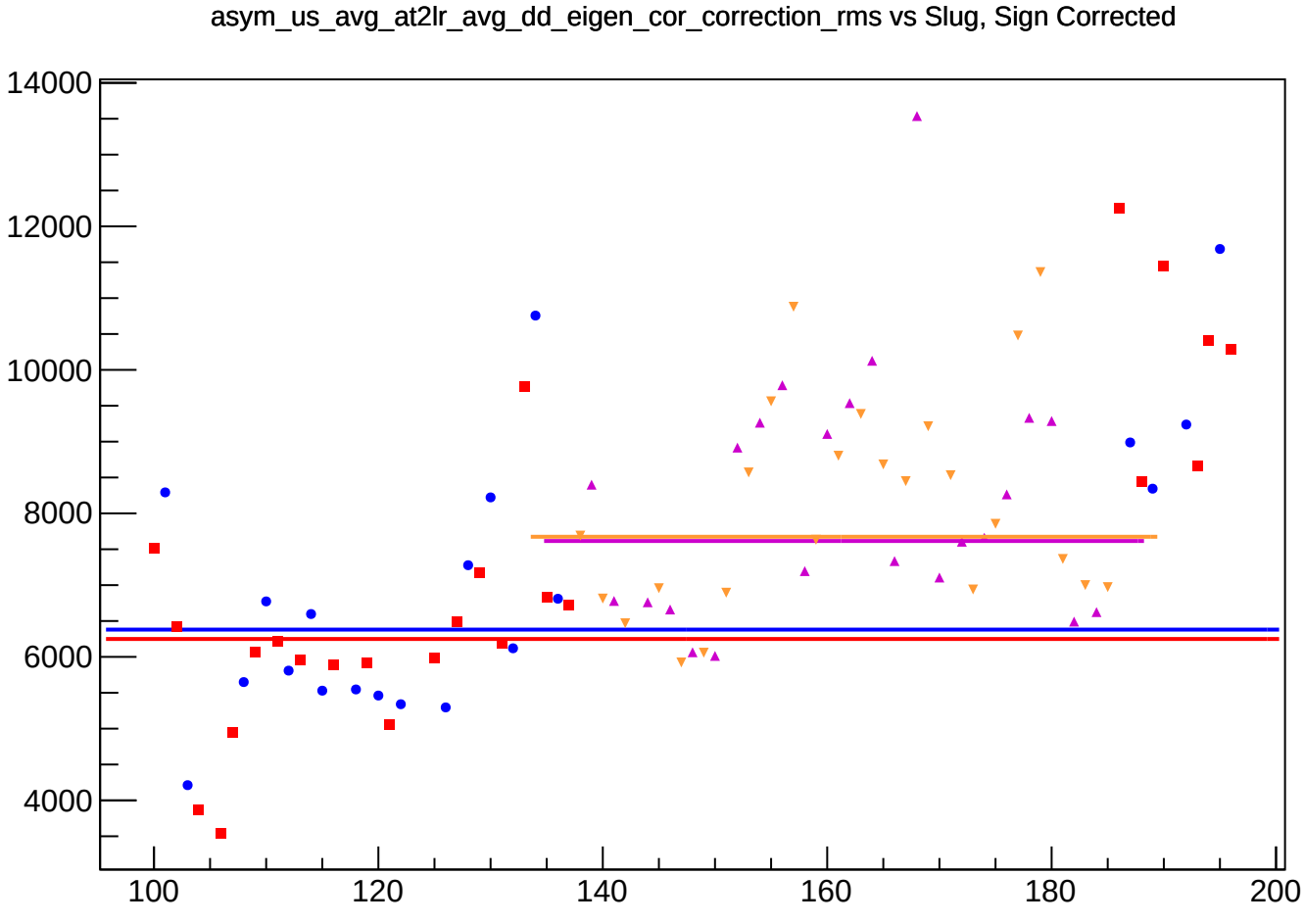
Left: 276.121+/-1285.059 $\chi^2$/NDF: 43.3/46

Right: 1493.737+/-1432.531 $\chi^2$/NDF: 44.2/43

In: 632.212+/-1378.535 $\chi^2$/NDF:32.8/42

Out: 992.558+/-1328.461 $\chi^2$/NDF:55.0/47

All: 819.049+/-956.576 $\chi^2$/NDF: 87.8/90




Right In: 6380.205+/-1.499 $\chi^2$/NDF: 1363617.2/19

Left Out: 7674.063+/-1.287 $\chi^2$/NDF:1076712.6/23

Right Out: 6249.290+/-1.374 $\chi^2$/NDF: 2047867.4/23

Left In: 7614.964+/-1.283 $\chi^2$/NDF:1224525.6/22

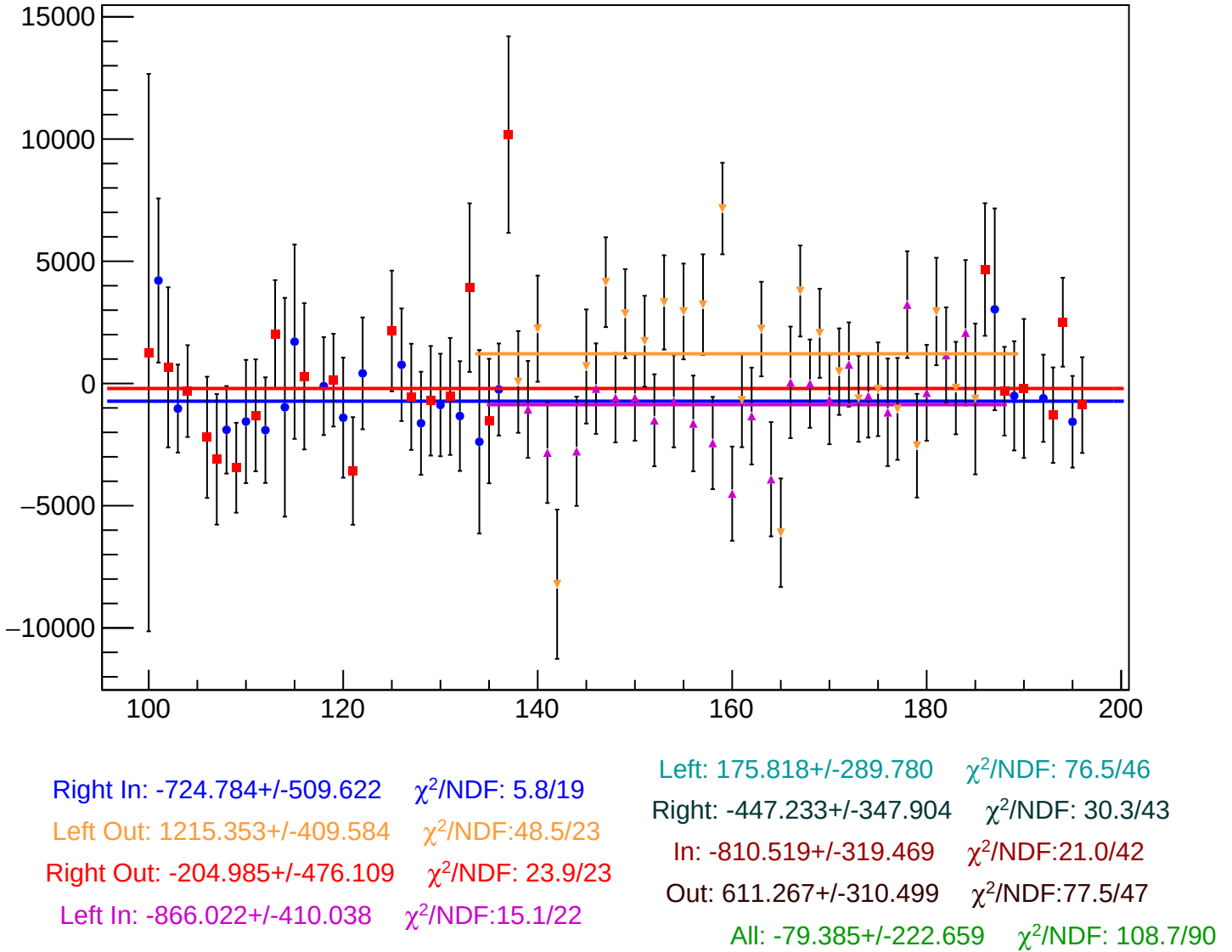
Left: 7644.431+/-0.909 $\chi^2$/NDF: 2302295.7/46

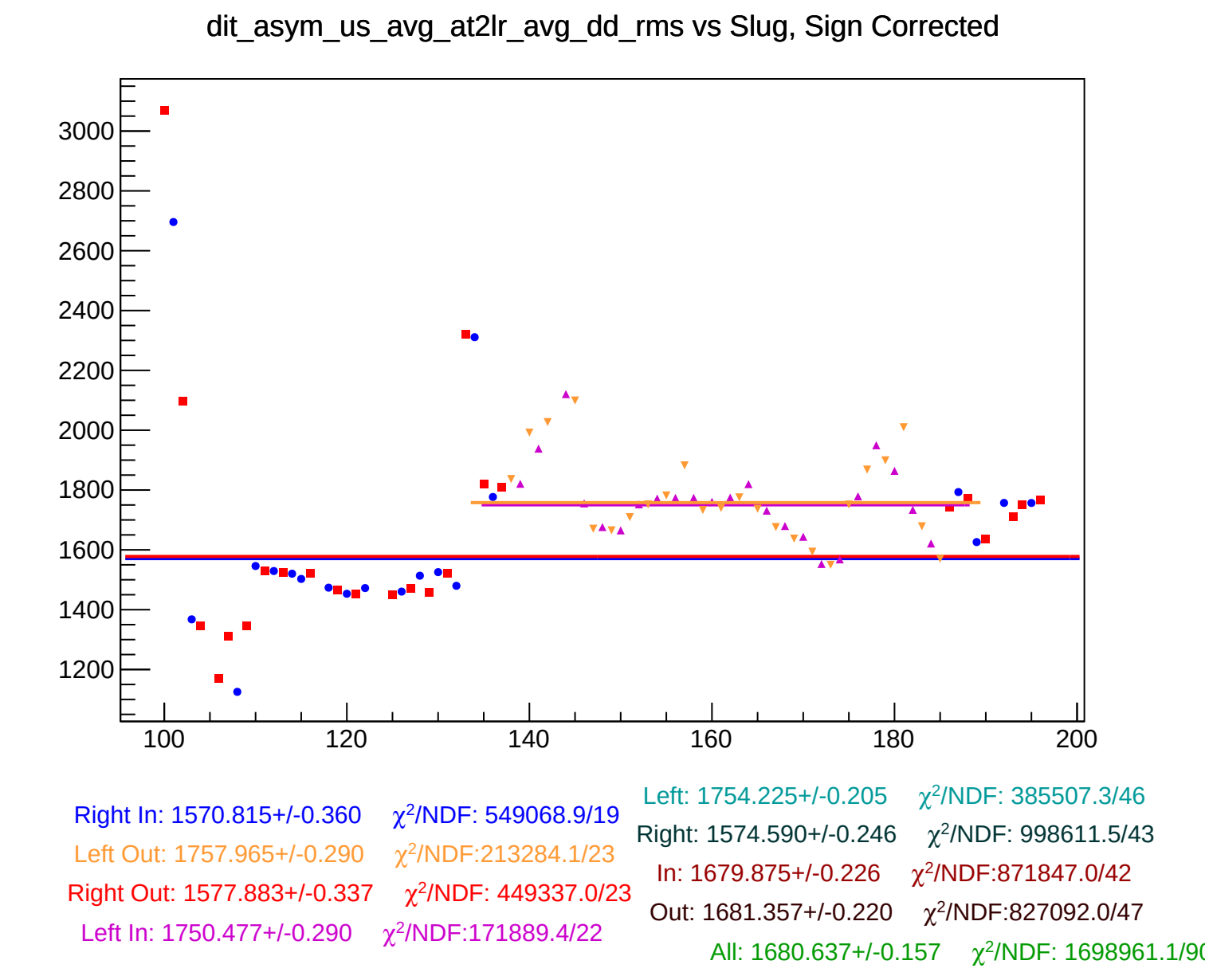
Right: 6309.093+/-1.013 $\chi^2$/NDF: 3415629.2/43

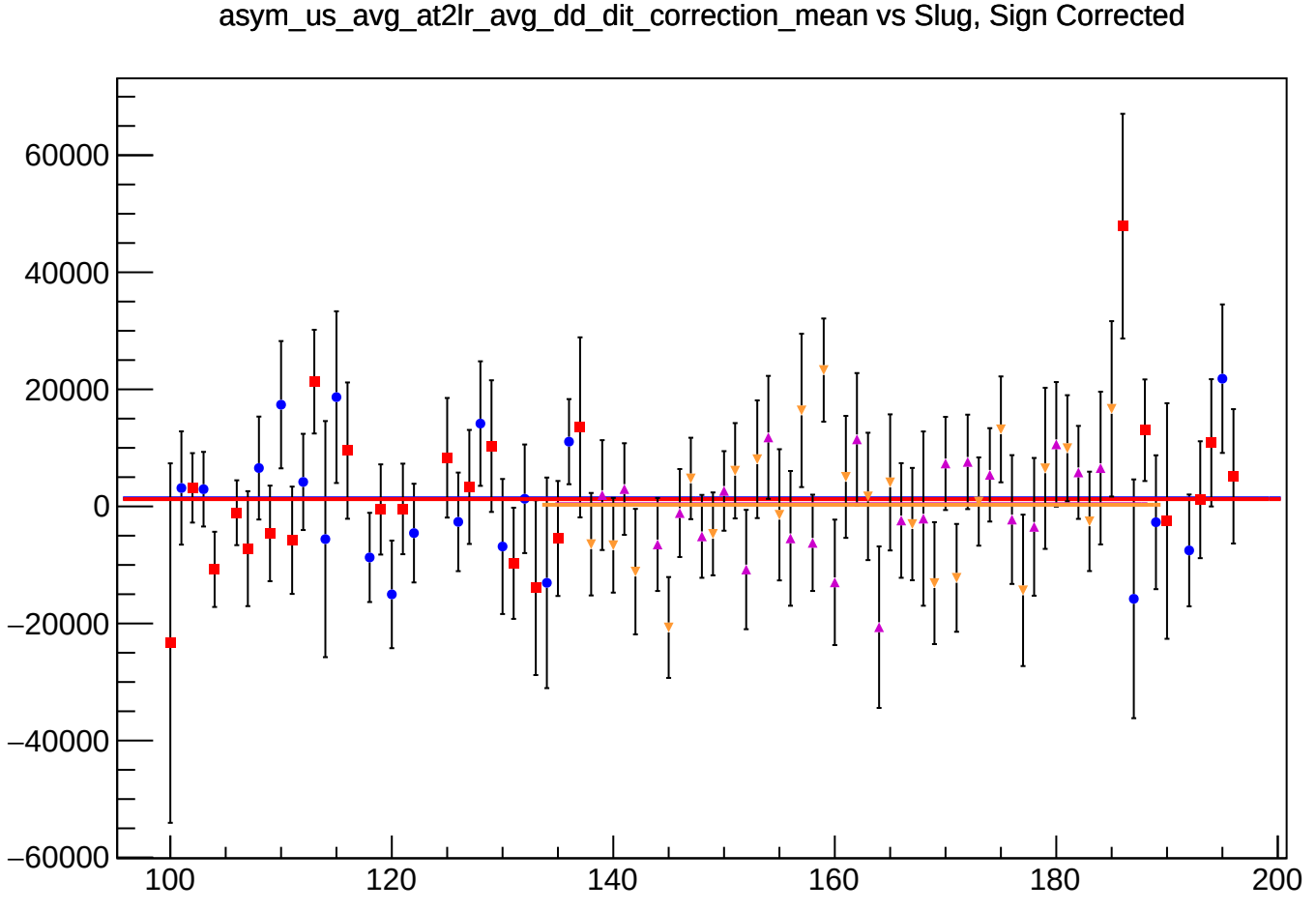
In: 7092.642+/-0.975 $\chi^2$/NDF:2979775.9/42

Out: 7008.494+/-0.939 $\chi^2$/NDF:3697222.2/47

All: 7049.012+/-0.676 $\chi^2$/NDF: 6680862.1/90


dit_asym_us_avg_at2lr_avg_dd_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -724.784+/-509.622 χ²/NDF: 5.8/19
Left Out: 1215.353+/-409.584 χ²/NDF:48.5/23
Right Out: -204.985+/-476.109 χ²/NDF: 23.9/23
Left In: -866.022+/-410.038 χ²/NDF:15.1/22
Left: 175.818+/-289.780 χ²/NDF: 76.5/46
Right: -447.233+/-347.904 χ²/NDF: 30.3/43
In: -810.519+/-319.469 χ²/NDF:21.0/42
Out: 611.267+/-310.499 χ²/NDF:77.5/47
All: -79.385+/-222.659 χ²/NDF: 108.7/90


dit_asym_us_avg_at2lr_avg_dd_rms vs Slug, Sign Corrected
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200
100
120
140
160
180
200
Right In: 1570.815+/-0.360 χ²/NDF: 549068.9/19
Left Out: 1757.965+/-0.290 χ²/NDF:213284.1/23
Right Out: 1577.883+/-0.337 χ²/NDF: 449337.0/23
Left In: 1750.477+/-0.290 χ²/NDF:171889.4/22
Left: 1754.225+/-0.205 χ²/NDF: 385507.3/46
Right: 1574.590+/-0.246 χ²/NDF: 998611.5/43
In: 1679.875+/-0.226 χ²/NDF:871847.0/42
Out: 1681.357+/-0.220 χ²/NDF:827092.0/47
All: 1680.637+/-0.157 χ²/NDF: 1698961.1/90




Right In: 1387.562+/-2166.668 $\chi^2$/NDF: 18.6/19

Left Out: 284.925+/-1920.134 $\chi^2$/NDF:28.7/23

Right Out: 1243.461+/-1889.847 $\chi^2$/NDF: 25.3/23

Left In: 382.660+/-1912.385 $\chi^2$/NDF:13.6/22

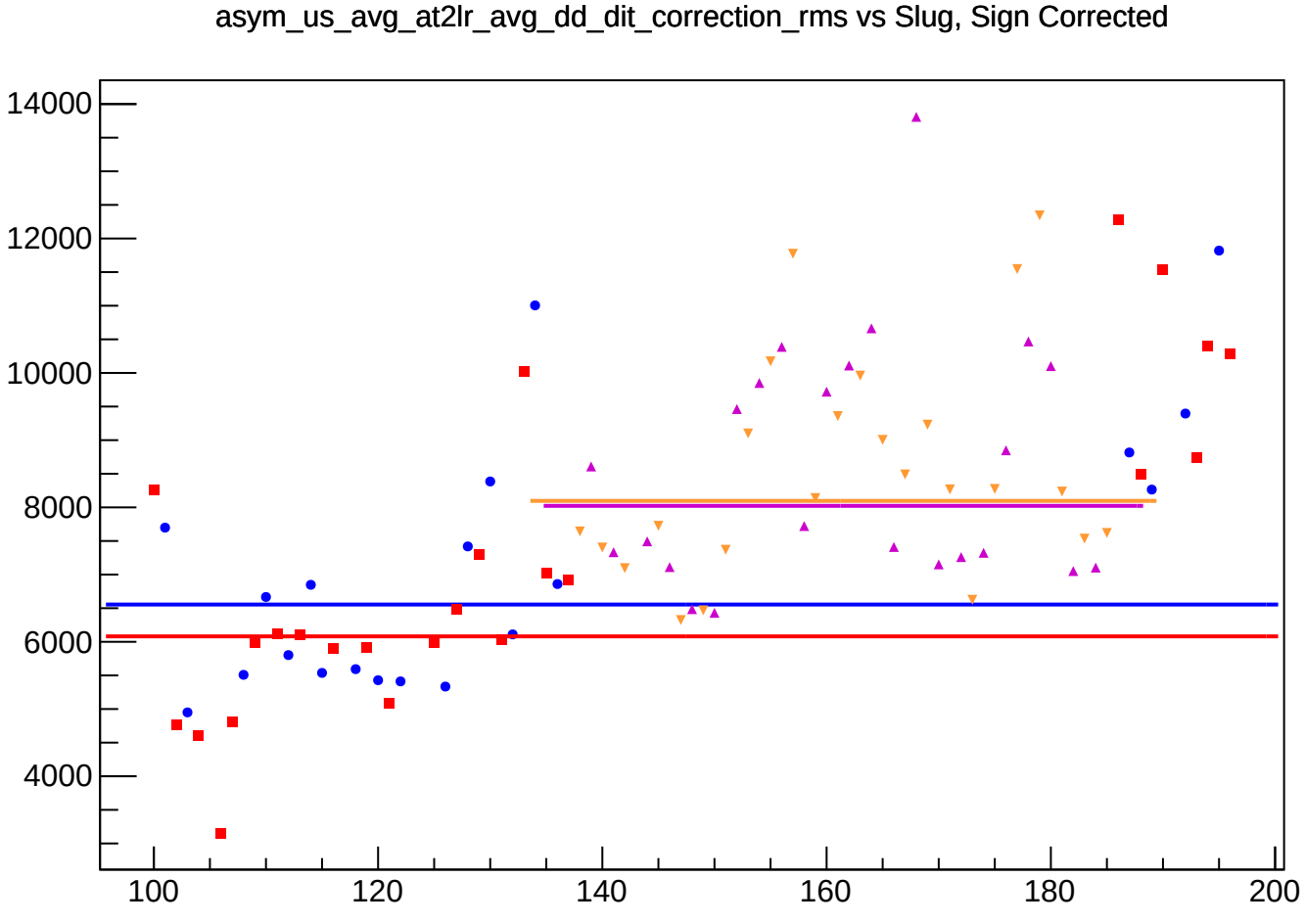
Left: 333.990+/-1354.992 $\chi^2$/NDF: 42.3/46

Right: 1305.724+/-1424.203 $\chi^2$/NDF: 43.9/43

In: 822.709+/-1433.775 $\chi^2$/NDF:32.3/42

Out: 771.813+/-1346.904 $\chi^2$/NDF:54.1/47

All: 795.672+/-981.680 $\chi^2$/NDF: 86.4/90




Right In: 6554.534+/-1.532 $\chi^2$/NDF: 1135721.8/19

Left Out: 8096.821+/-1.358 $\chi^2$/NDF:1087790.8/23

Right Out: 6080.803+/-1.336 $\chi^2$/NDF: 2266953.9/23

Left In: 8022.726+/-1.352 $\chi^2$/NDF:1225549.2/22

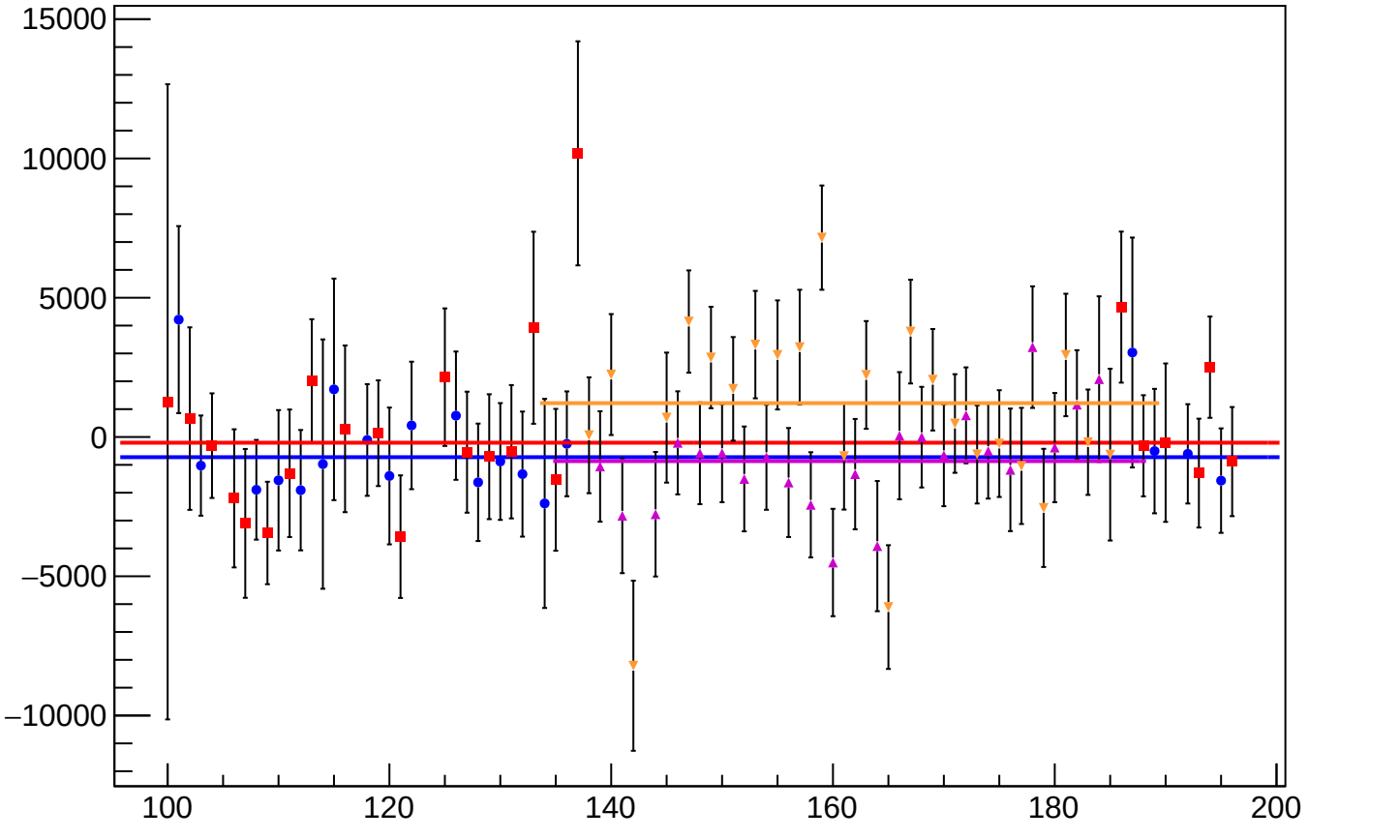
Left: 8059.624+/-0.958 $\chi^2$/NDF: 2314835.1/46

Right: 6285.490+/-1.007 $\chi^2$/NDF: 3456975.6/43

In: 7379.801+/-1.014 $\chi^2$/NDF:2877476.5/42

Out: 7072.786+/-0.952 $\chi^2$/NDF:4474635.5/47

All: 7216.712+/-0.694 $\chi^2$/NDF: 7400825.8/90




Right In: -724.785+/-509.622 $\chi^2$/NDF: 5.8/19

Left Out: 1215.361+/-409.585 $\chi^2$/NDF:48.5/23

Right Out: -204.993+/-476.109 $\chi^2$/NDF: 23.9/23

Left In: -866.021+/-410.039 $\chi^2$/NDF:15.1/22

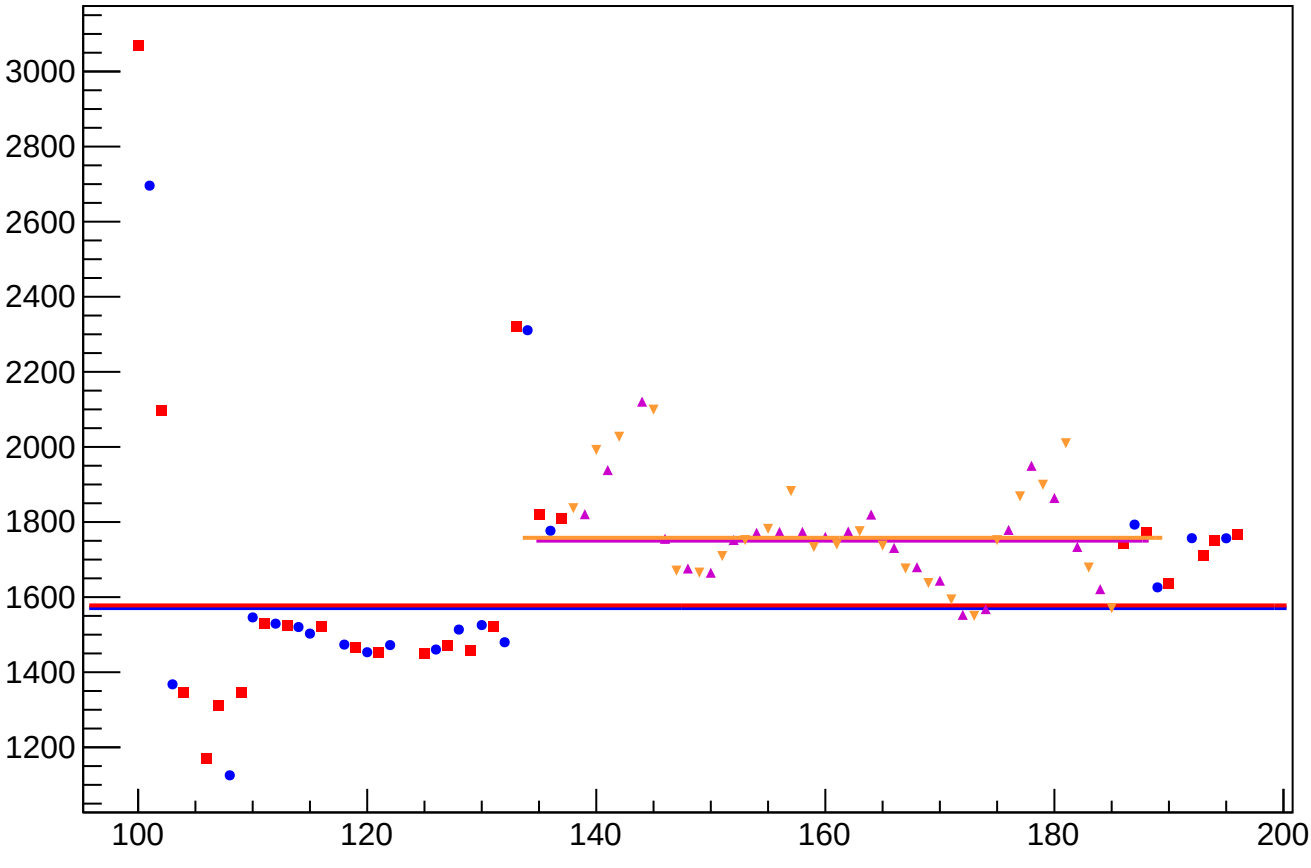
Left: 175.823+/-289.781 $\chi^2$/NDF: 76.5/46

Right: -447.237+/-347.904 $\chi^2$/NDF: 30.3/43

In: -810.519+/-319.469 $\chi^2$/NDF:21.0/42

Out: 611.267+/-310.499 $\chi^2$/NDF:77.5/47

All: -79.385+/-222.660 $\chi^2$/NDF: 108.7/90




Right In: 1570.815+/-0.360 $\chi^2$/NDF: 549068.2/19

Left Out: 1757.968+/-0.290 $\chi^2$/NDF:213292.2/23

Right Out: 1577.883+/-0.337 $\chi^2$/NDF: 449336.9/23

Left In: 1750.480+/-0.290 $\chi^2$/NDF:171897.3/22

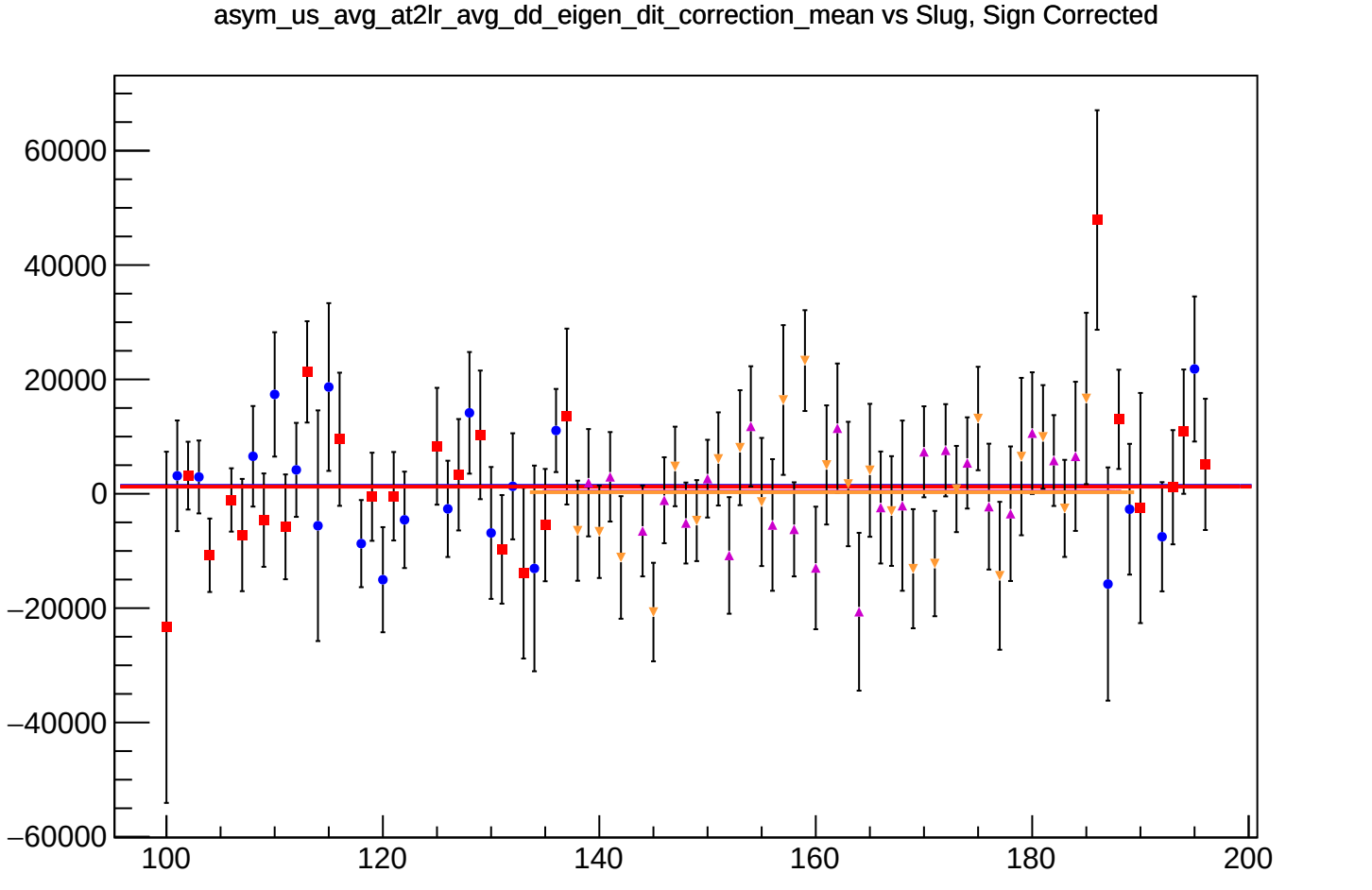
Left: 1754.228+/-0.205 $\chi^2$/NDF: 385523.3/46

Right: 1574.590+/-0.246 $\chi^2$/NDF: 998610.7/43

In: 1679.876+/-0.226 $\chi^2$/NDF:871859.2/42

Out: 1681.358+/-0.220 $\chi^2$/NDF:827104.8/47

All: 1680.638+/-0.157 $\chi^2$/NDF: 1698986.2/90




Right In: 1387.544+/-2166.665 $\chi^2$/NDF: 18.6/19

Left Out: 284.927+/-1920.138 $\chi^2$/NDF:28.7/23

Right Out: 1243.451+/-1889.844 $\chi^2$/NDF: 25.3/23

Left In: 382.663+/-1912.388 $\chi^2$/NDF:13.6/22

Left: 333.993+/-1354.994 $\chi^2$/NDF: 42.3/46

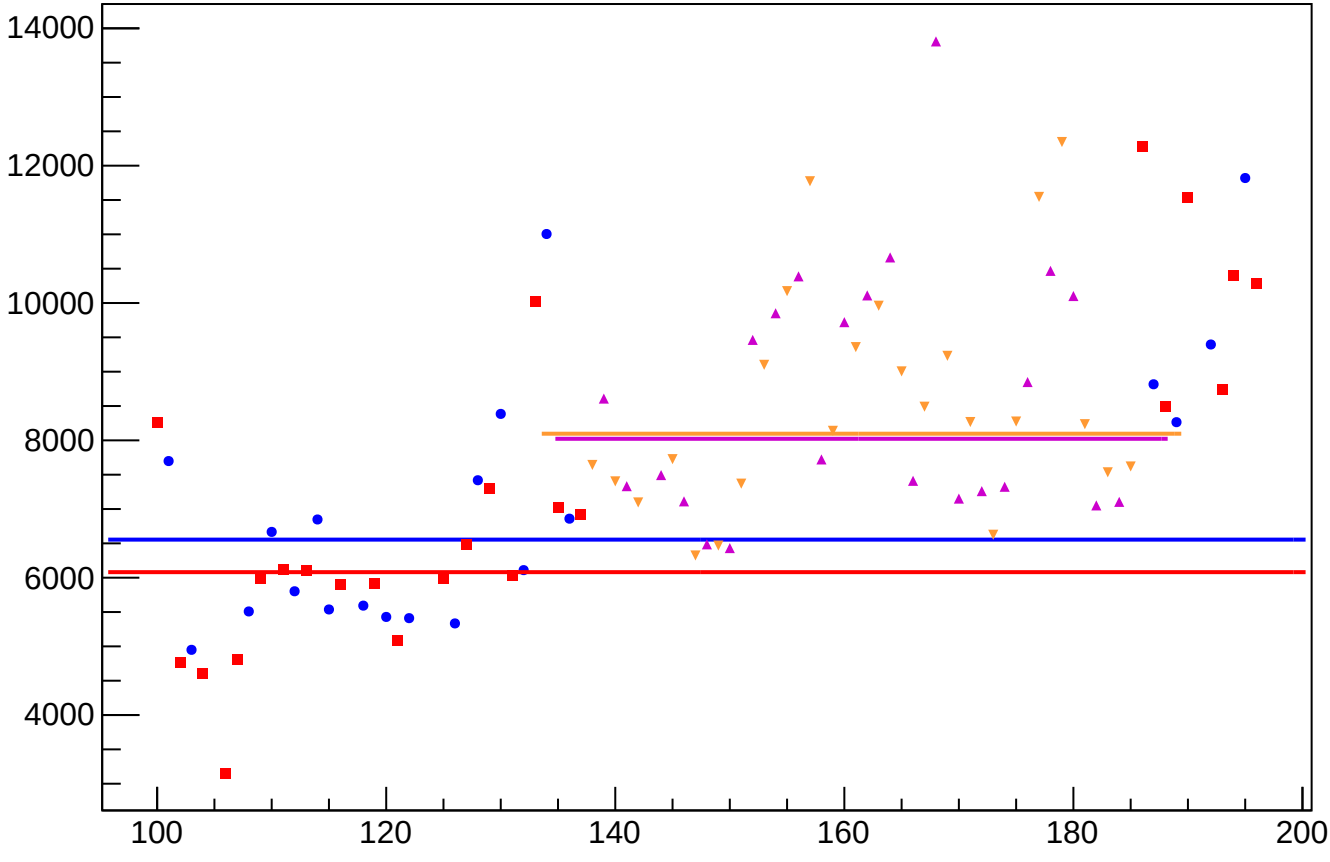
Right: 1305.710+/-1424.201 $\chi^2$/NDF: 43.9/43

In: 822.705+/-1433.776 $\chi^2$/NDF:32.3/42

Out: 771.810+/-1346.904 $\chi^2$/NDF:54.1/47

All: 795.669+/-981.680 $\chi^2$/NDF: 86.4/90

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 6554.521+/-1.532 $\chi^2$/NDF: 1135733.6/19

Left Out: 8096.833+/-1.358 $\chi^2$/NDF:1087793.4/23

Right Out: 6080.792+/-1.336 $\chi^2$/NDF: 2266964.4/23

Left In: 8022.738+/-1.352 $\chi^2$/NDF:1225553.6/22

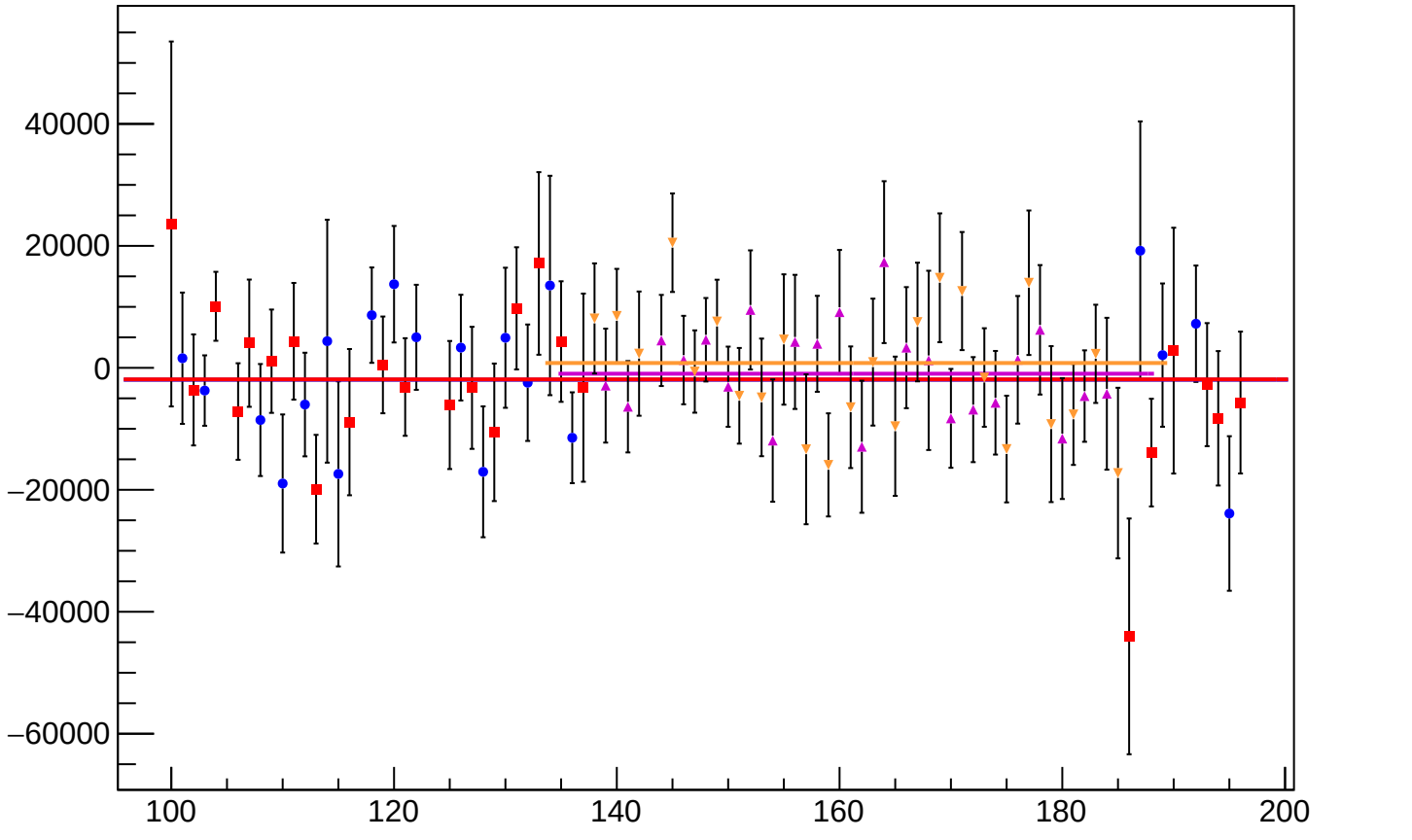
Left: 8059.636+/-0.958 $\chi^2$/NDF: 2314842.1/46

Right: 6285.479+/-1.007 $\chi^2$/NDF: 3456997.8/43

In: 7379.800+/-1.014 $\chi^2$/NDF:2877510.0/42

Out: 7072.784+/-0.952 $\chi^2$/NDF:4474674.6/47

All: 7216.710+/-0.694 $\chi^2$/NDF: 7400898.8/90




Right In: -1950.462+/-2192.049 $\chi^2$/NDF: 19.6/19

Left Out: 791.264+/-1865.111 $\chi^2$/NDF:27.2/23

Right Out: -1893.833+/-2021.507 $\chi^2$/NDF: 22.4/23

Left In: -963.967+/-1859.926 $\chi^2$/NDF:12.8/22

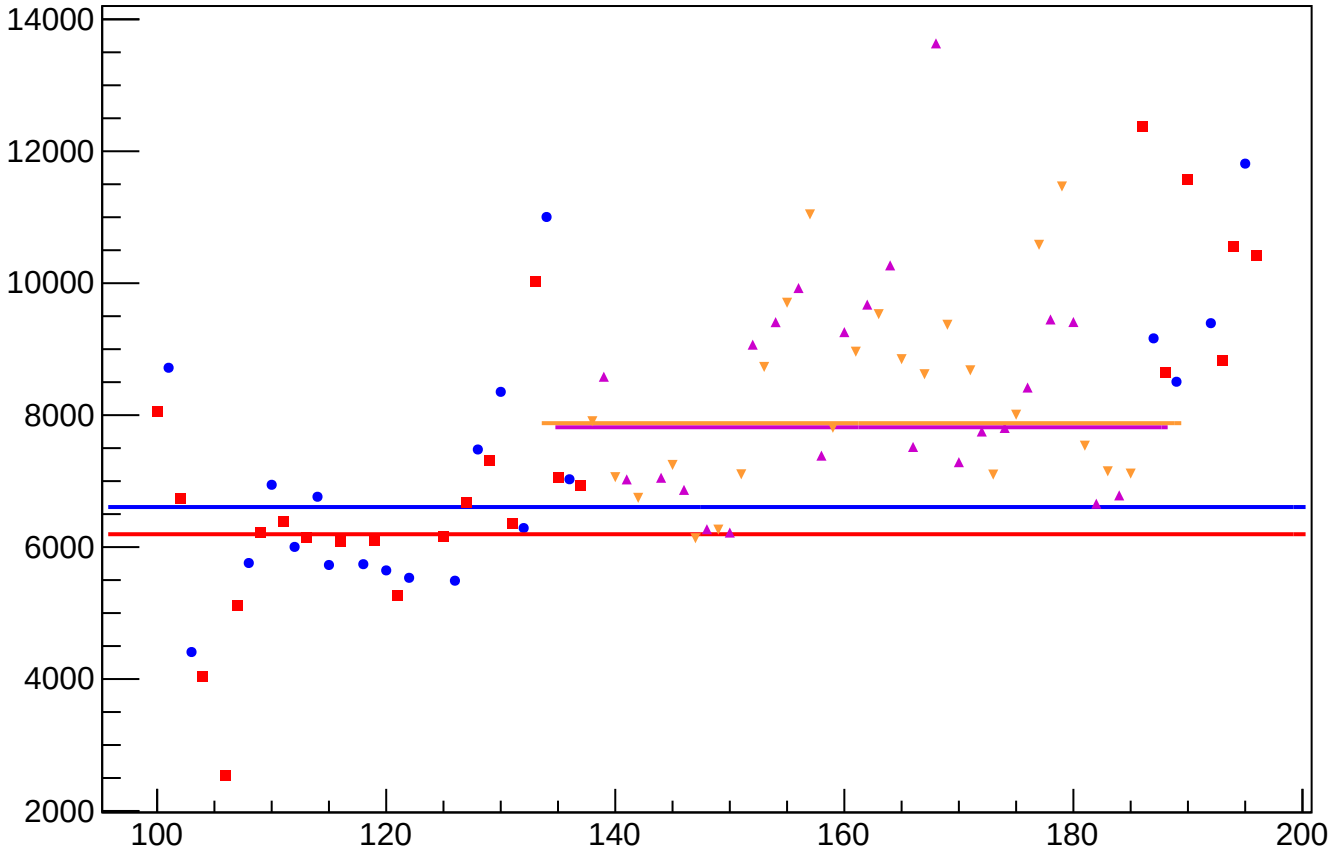
Left: -88.795+/-1316.995 $\chi^2$/NDF: 40.4/46

Right: -1919.859+/-1486.060 $\chi^2$/NDF: 42.0/43

In: -1376.895+/-1418.209 $\chi^2$/NDF:32.5/42

Out: -443.412+/-1370.793 $\chi^2$/NDF:50.5/47

All: -894.288+/-985.633 $\chi^2$/NDF: 83.2/90




Right In: 6607.162+/-1.550 $\chi^2$/NDF: 1288335.1/19

Left Out: 7878.482+/-1.319 $\chi^2$/NDF:990058.5/23

Right Out: 6195.125+/-1.387 $\chi^2$/NDF: 2581498.4/23

Left In: 7816.447+/-1.315 $\chi^2$/NDF:1132368.2/22

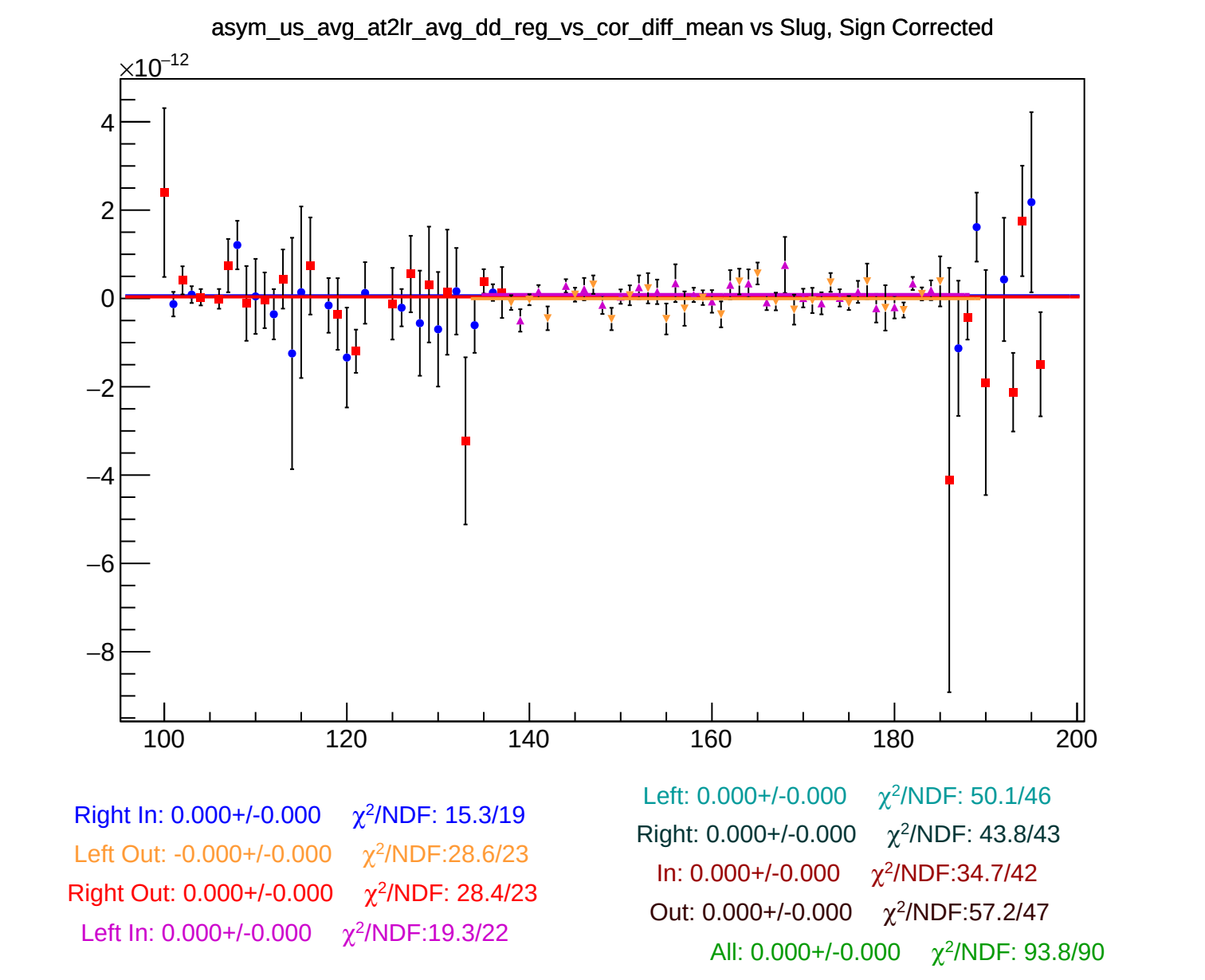
Left: 7847.378+/-0.931 $\chi^2$/NDF: 2123536.1/46

Right: 6378.315+/-1.034 $\chi^2$/NDF: 3909081.2/43

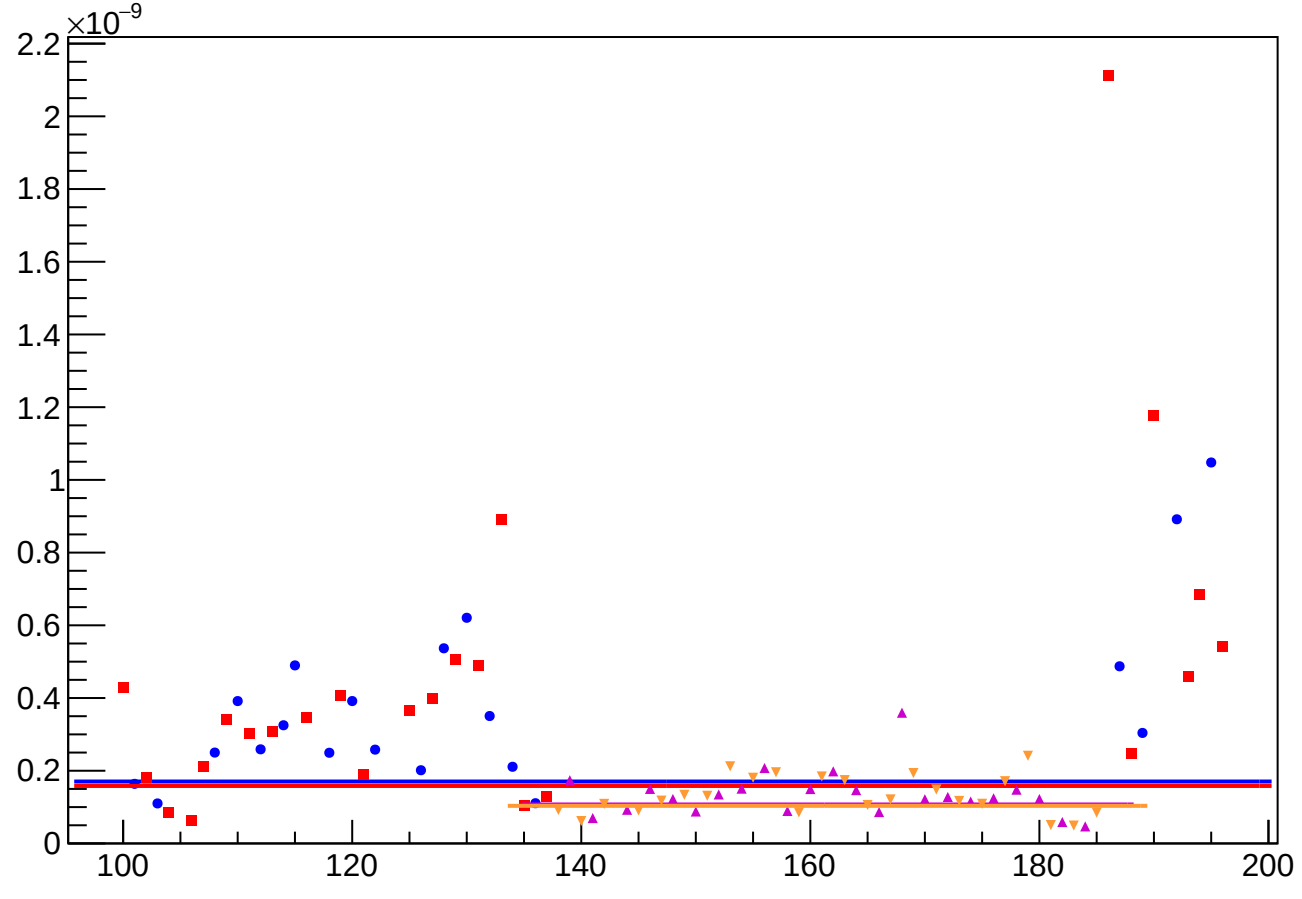
In: 7310.260+/-1.003 $\chi^2$/NDF:2774601.7/42

Out: 7079.060+/-0.956 $\chi^2$/NDF:4345257.9/47

All: 7189.098+/-0.692 $\chi^2$/NDF: 7147715.0/90


asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
4
2
0
−2
−4
−6
−8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 15.3/19
Left Out: -0.000+/-0.000 χ²/NDF:28.6/23
Right Out: 0.000+/-0.000 χ²/NDF: 28.4/23
Left In: 0.000+/-0.000 χ²/NDF:19.3/22
Left: 0.000+/-0.000 χ²/NDF: 50.1/46
Right: 0.000+/-0.000 χ²/NDF: 43.8/43
In: 0.000+/-0.000 χ²/NDF:34.7/42
Out: 0.000+/-0.000 χ²/NDF:57.2/47
All: 0.000+/-0.000 χ²/NDF: 93.8/90

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2396106.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1905146.0/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3729250.5/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:1596017.6/22

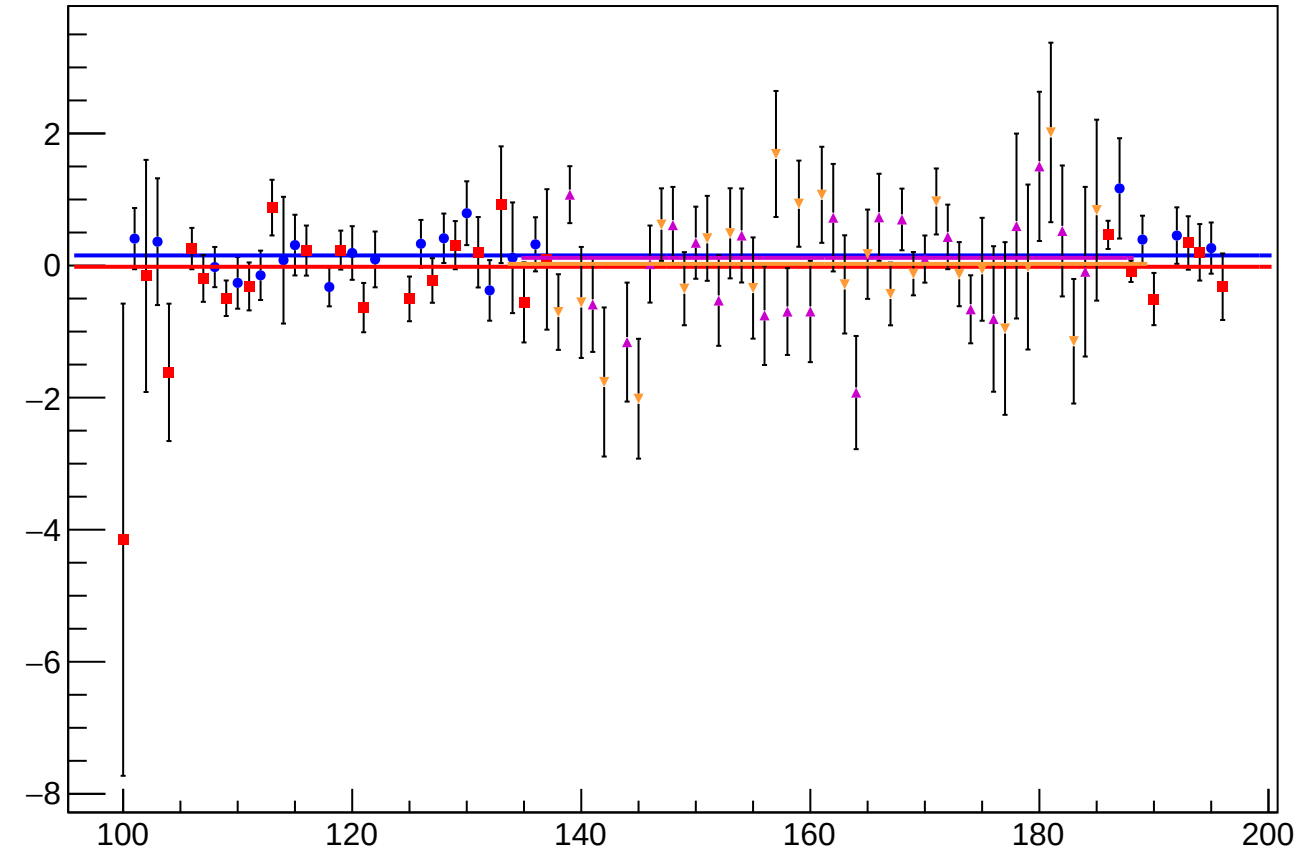
Left: 0.000+/-0.000 $\chi^2$/NDF: 3508045.7/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 6140092.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:4631862.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6142340.6/47

All: 0.000+/-0.000 $\chi^2$/NDF: 10788946.1/90




Right In: 0.153+/-0.094 $\chi^2$/NDF: 12.0/19

Left Out: 0.025+/-0.134 $\chi^2$/NDF:29.1/23

Right Out: -0.019+/-0.073 $\chi^2$/NDF: 30.5/23

Left In: 0.117+/-0.132 $\chi^2$/NDF:27.8/22

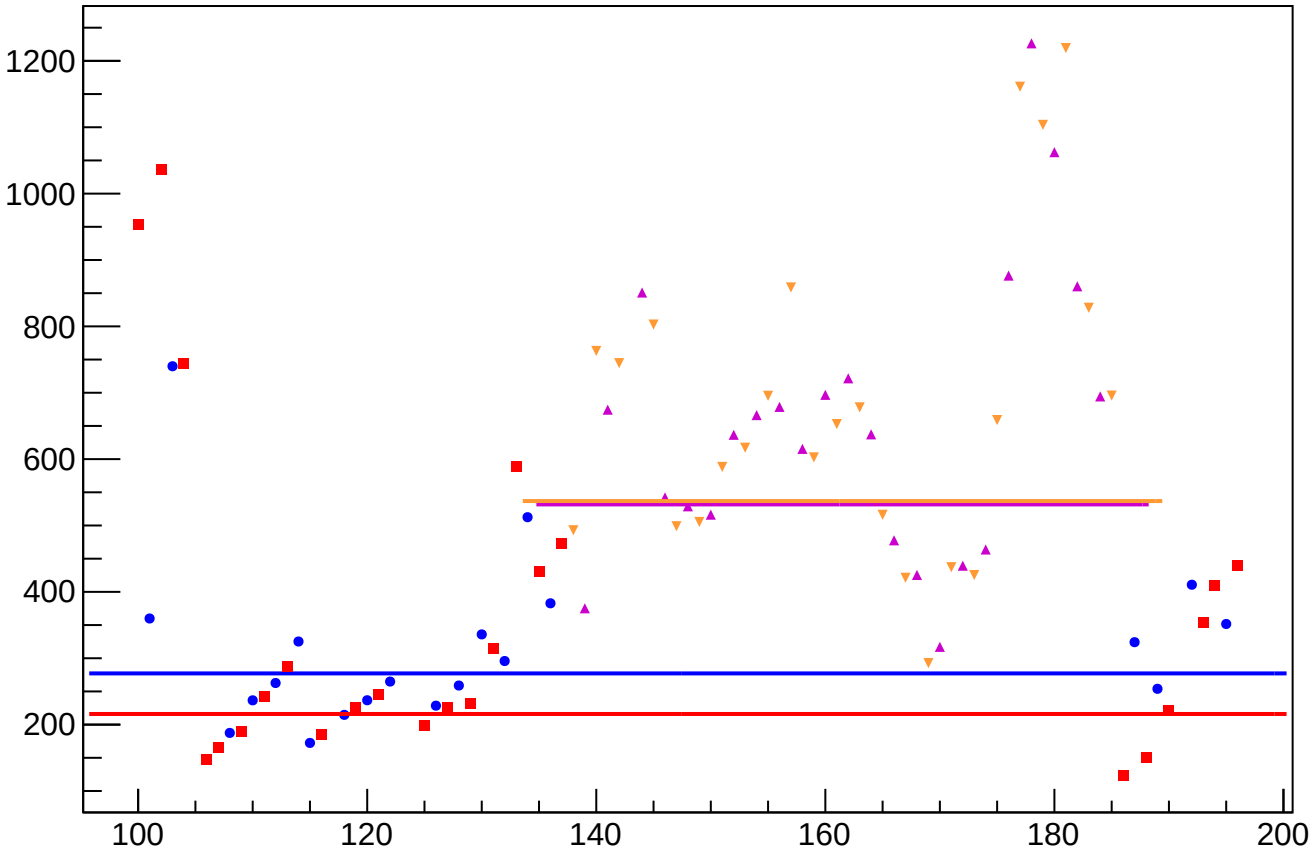
Left: 0.071+/-0.094 $\chi^2$/NDF: 57.1/46

Right: 0.045+/-0.058 $\chi^2$/NDF: 44.6/43

In: 0.141+/-0.077 $\chi^2$/NDF:39.9/42

Out: -0.009+/-0.064 $\chi^2$/NDF:59.7/47

All: 0.052+/-0.049 $\chi^2$/NDF: 101.8/90




Right In: 277.157+/-0.067 $\chi^2$/NDF: 1597288.5/19

Left Out: 536.821+/-0.095 $\chi^2$/NDF:3963242.1/23

Right Out: 216.023+/-0.052 $\chi^2$/NDF: 3836363.3/23

Left In: 531.769+/-0.094 $\chi^2$/NDF:3381209.0/22

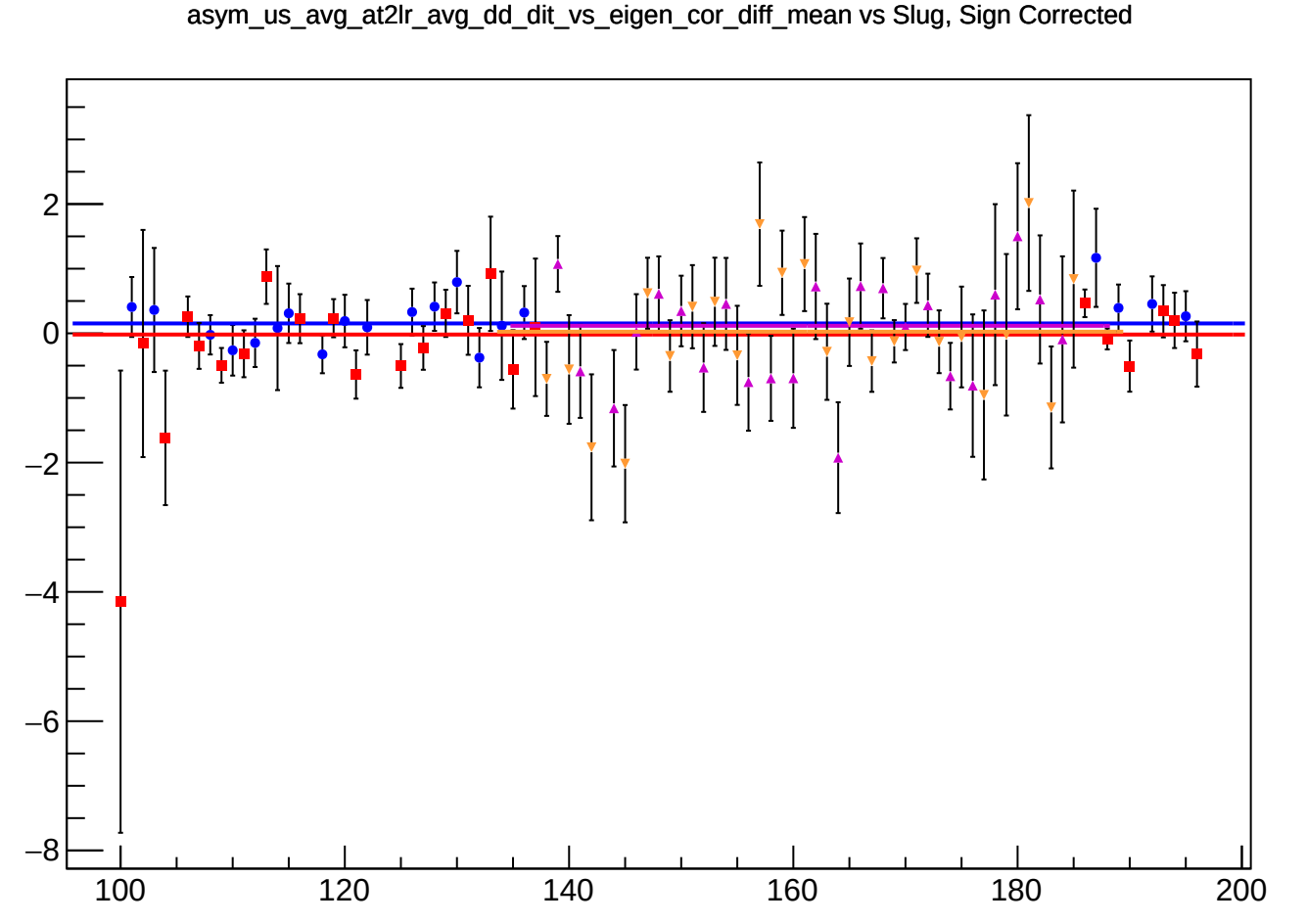
Left: 534.267+/-0.067 $\chi^2$/NDF: 7345889.1/46

Right: 238.865+/-0.041 $\chi^2$/NDF: 5958335.7/43

In: 362.990+/-0.054 $\chi^2$/NDF:9876720.7/42

Out: 289.403+/-0.045 $\chi^2$/NDF:16644149.4/47

All: 319.552+/-0.035 $\chi^2$/NDF: 27601665.3/90




Right In: 0.153+/-0.094 $\chi^2$/NDF: 12.0/19

Left Out: 0.025+/-0.134 $\chi^2$/NDF:29.1/23

Right Out: -0.019+/-0.073 $\chi^2$/NDF: 30.5/23

Left In: 0.117+/-0.132 $\chi^2$/NDF:27.8/22

Left: 0.071+/-0.094 $\chi^2$/NDF: 57.1/46

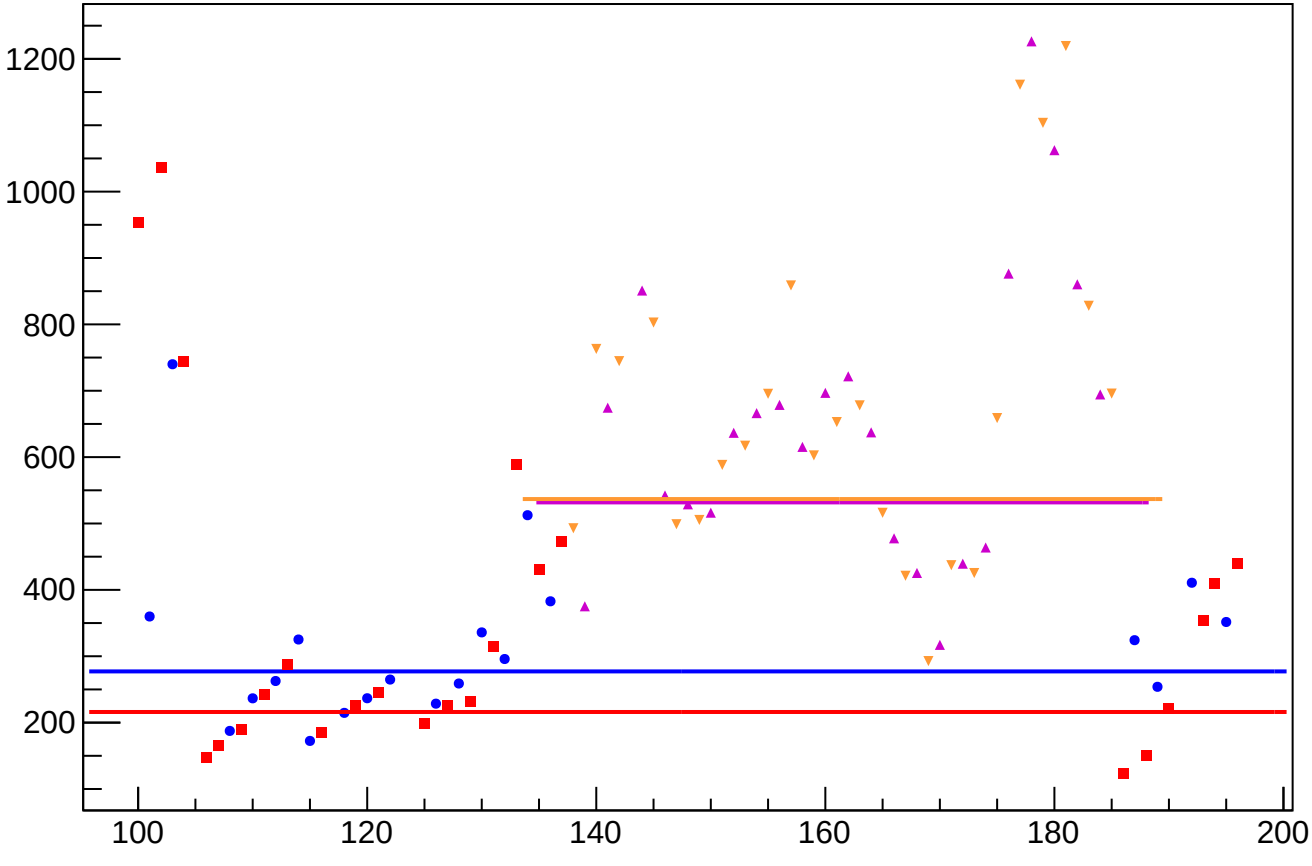
Right: 0.045+/-0.058 $\chi^2$/NDF: 44.6/43

In: 0.141+/-0.077 $\chi^2$/NDF:39.9/42

Out: -0.009+/-0.064 $\chi^2$/NDF:59.7/47

All: 0.052+/-0.049 $\chi^2$/NDF: 101.8/90

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 277.157+/-0.067 $\chi^2$/NDF: 1597288.5/19

Left Out: 536.821+/-0.095 $\chi^2$/NDF:3963242.1/23

Right Out: 216.023+/-0.052 $\chi^2$/NDF: 3836363.3/23

Left In: 531.769+/-0.094 $\chi^2$/NDF:3381209.0/22

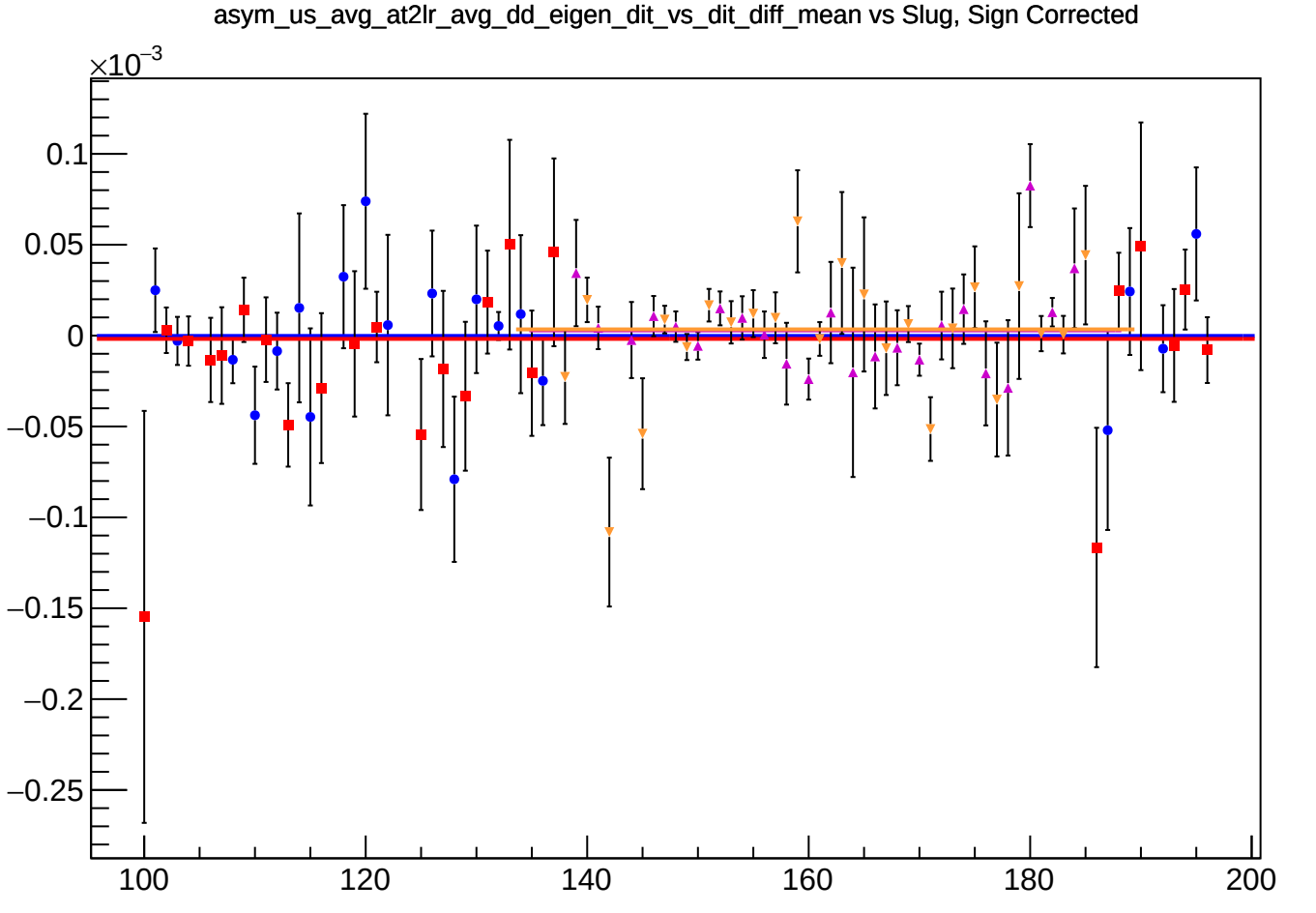
Left: 534.267+/-0.067 $\chi^2$/NDF: 7345889.1/46

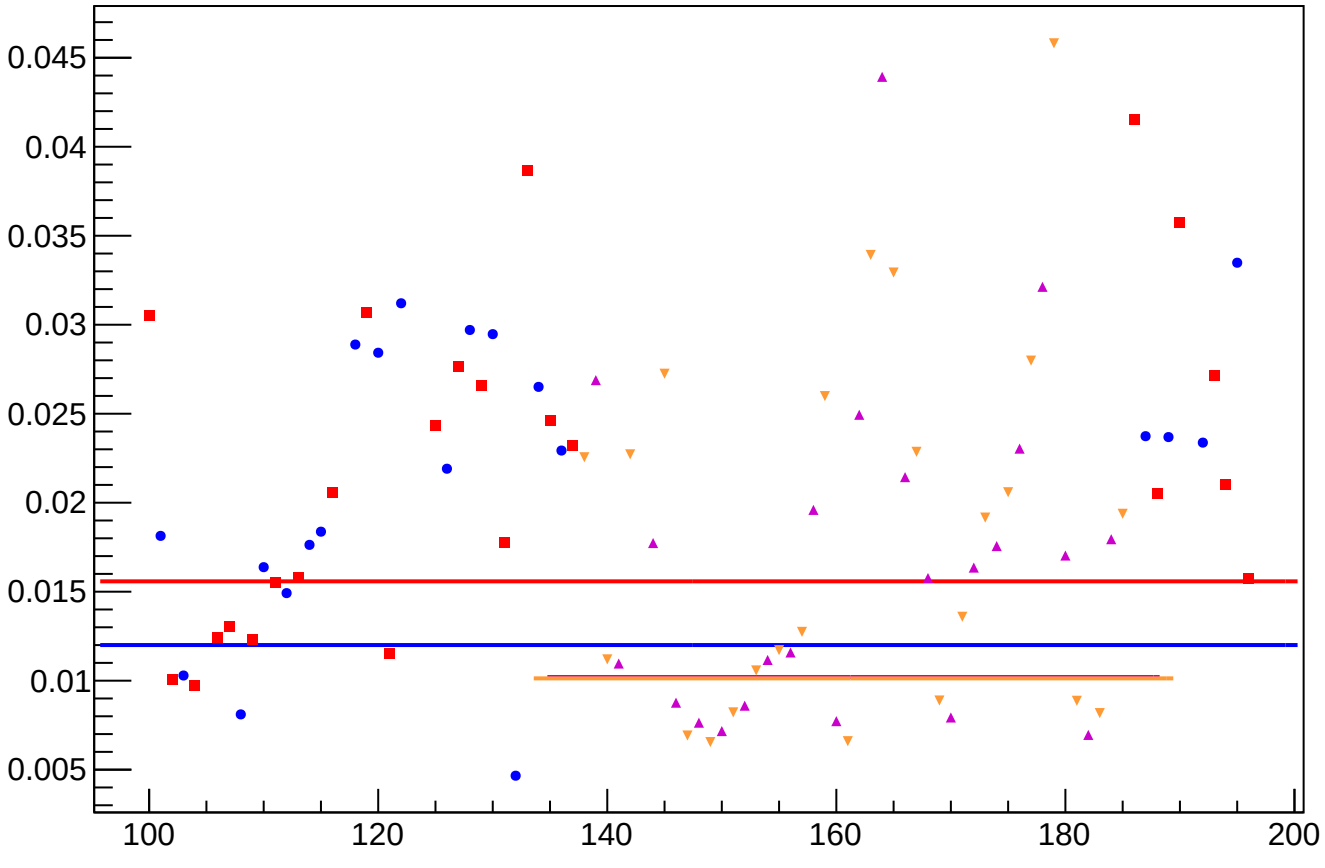
Right: 238.865+/-0.041 $\chi^2$/NDF: 5958335.7/43

In: 362.990+/-0.054 $\chi^2$/NDF:9876720.7/42

Out: 289.403+/-0.045 $\chi^2$/NDF:16644149.4/47

All: 319.552+/-0.035 $\chi^2$/NDF: 27601665.3/90


asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 18.2/19
Left Out: 0.000+/-0.000 χ²/NDF:39.1/23
Right Out: -0.000+/-0.000 χ²/NDF: 19.6/23
Left In: 0.000+/-0.000 χ²/NDF:32.2/22
Left: 0.000+/-0.000 χ²/NDF: 71.3/46
Right: -0.000+/-0.000 χ²/NDF: 37.9/43
In: 0.000+/-0.000 χ²/NDF:50.7/42
Out: 0.000+/-0.000 χ²/NDF:59.5/47
All: 0.000+/-0.000 χ²/NDF: 110.2/90




Right In: 0.012+/-0.000 $\chi^2$/NDF: 6156072.7/19

Left Out: 0.010+/-0.000 $\chi^2$/NDF:7812047.6/23

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 3218818.1/23

Left In: 0.010+/-0.000 $\chi^2$/NDF:6075883.8/22

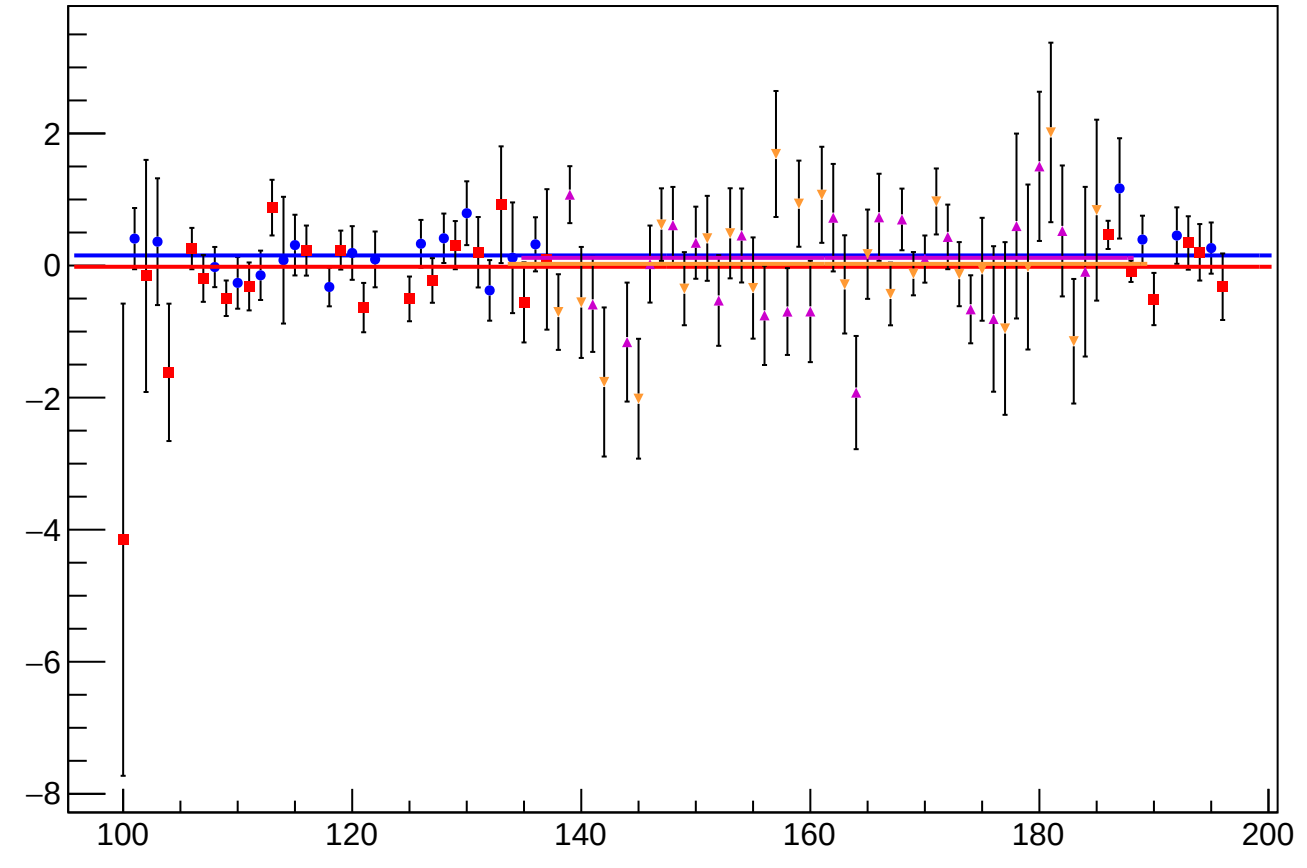
Left: 0.010+/-0.000 $\chi^2$/NDF: 13888720.1/46

Right: 0.014+/-0.000 $\chi^2$/NDF: 9908544.4/43

In: 0.011+/-0.000 $\chi^2$/NDF:12444671.2/42

Out: 0.011+/-0.000 $\chi^2$/NDF:12834581.2/47

All: 0.011+/-0.000 $\chi^2$/NDF: 25367082.9/90




Right In: 0.153+/-0.094 $\chi^2$/NDF: 12.0/19

Left Out: 0.025+/-0.134 $\chi^2$/NDF:29.1/23

Right Out: -0.019+/-0.073 $\chi^2$/NDF: 30.5/23

Left In: 0.117+/-0.132 $\chi^2$/NDF:27.8/22

Left: 0.071+/-0.094 $\chi^2$/NDF: 57.1/46

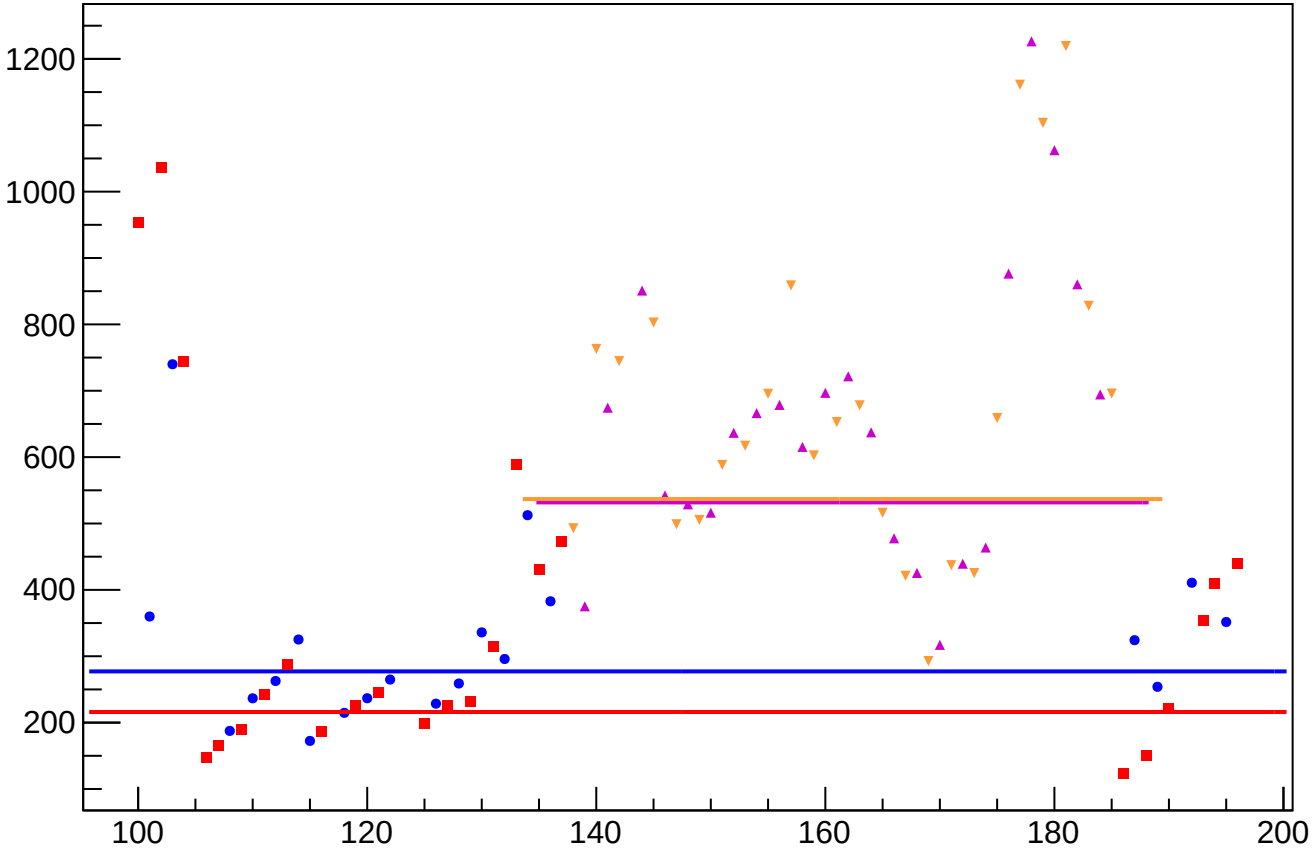
Right: 0.045+/-0.058 $\chi^2$/NDF: 44.6/43

In: 0.141+/-0.077 $\chi^2$/NDF:39.9/42

Out: -0.009+/-0.064 $\chi^2$/NDF:59.7/47

All: 0.052+/-0.049 $\chi^2$/NDF: 101.8/90

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 277.155+/-0.067 $\chi^2$/NDF: 1597258.4/19

Left Out: 536.822+/-0.095 $\chi^2$/NDF:3963422.5/23

Right Out: 216.020+/-0.052 $\chi^2$/NDF: 3836452.0/23

Left In: 531.773+/-0.094 $\chi^2$/NDF:3381293.8/22

Left: 534.268+/-0.067 $\chi^2$/NDF: 7346152.7/46

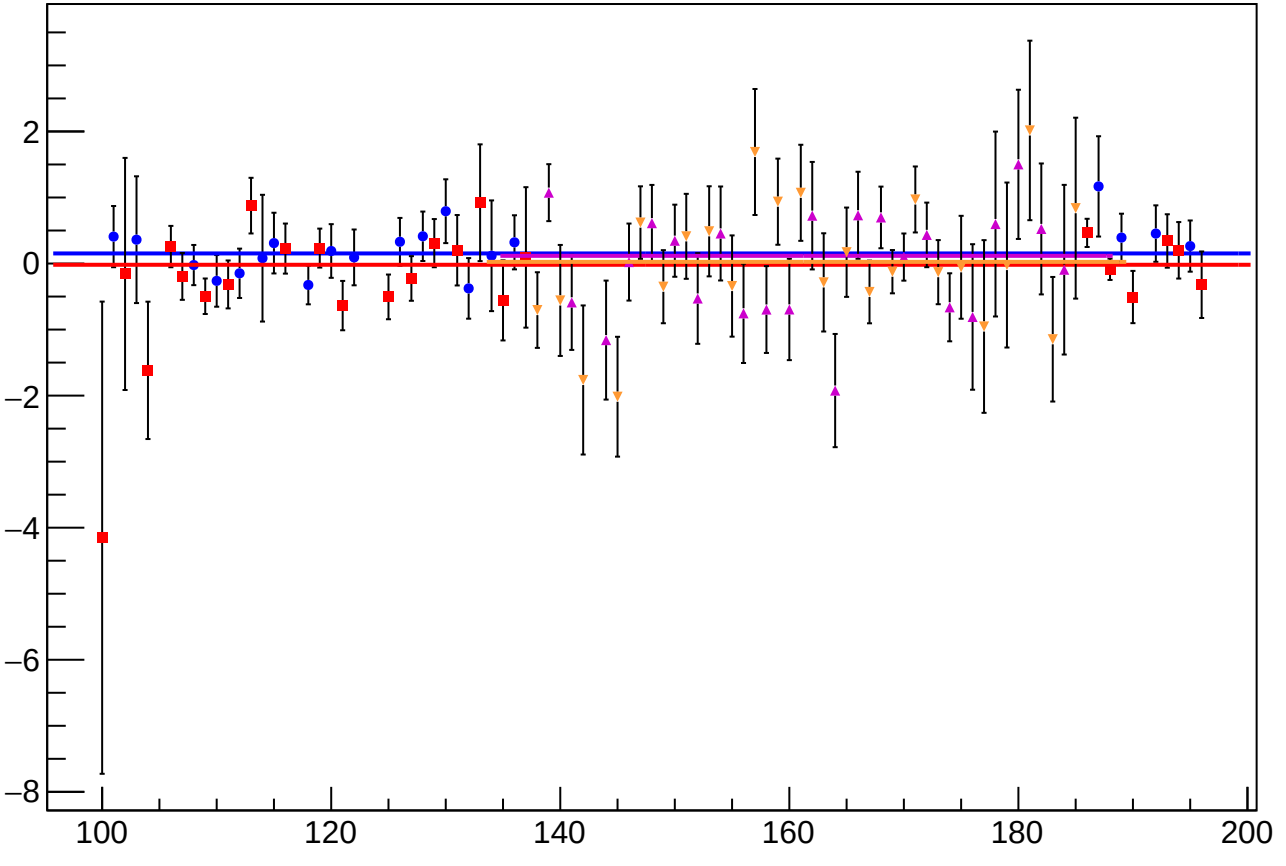
Right: 238.863+/-0.041 $\chi^2$/NDF: 5958411.7/43

In: 362.989+/-0.054 $\chi^2$/NDF:9876949.5/42

Out: 289.400+/-0.045 $\chi^2$/NDF:16644572.1/47

All: 319.549+/-0.035 $\chi^2$/NDF: 27602366.5/90

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.153+/-0.094 $\chi^2$/NDF: 12.0/19

Left Out: 0.025+/-0.134 $\chi^2$/NDF:29.1/23

Right Out: -0.019+/-0.073 $\chi^2$/NDF: 30.5/23

Left In: 0.117+/-0.132 $\chi^2$/NDF:27.8/22

Left: 0.071+/-0.094 $\chi^2$/NDF: 57.1/46

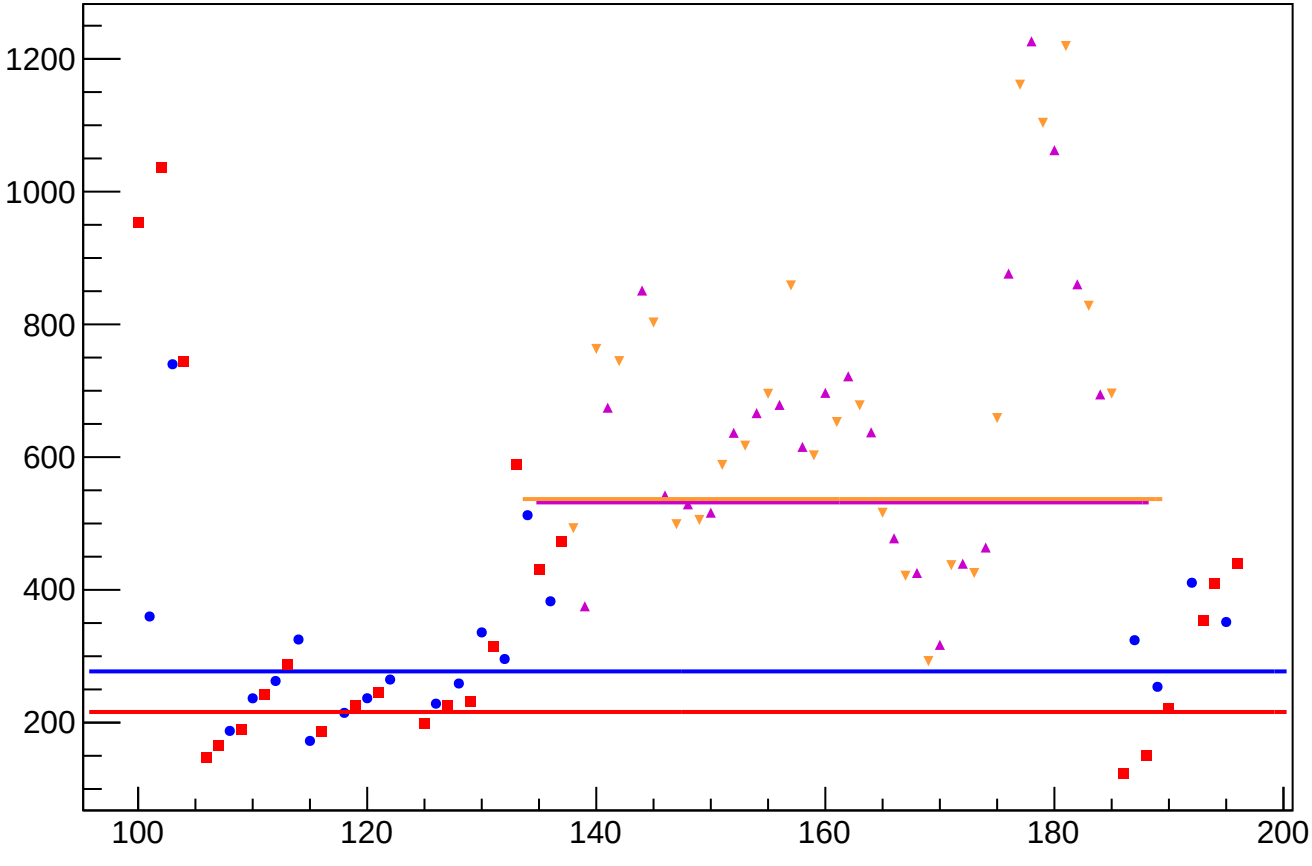
Right: 0.045+/-0.058 $\chi^2$/NDF: 44.6/43

In: 0.141+/-0.077 $\chi^2$/NDF:39.9/42

Out: -0.009+/-0.064 $\chi^2$/NDF:59.7/47

All: 0.052+/-0.049 $\chi^2$/NDF: 101.8/90

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 277.155+/-0.067 $\chi^2$/NDF: 1597258.4/19

Left Out: 536.822+/-0.095 $\chi^2$/NDF:3963422.5/23

Right Out: 216.020+/-0.052 $\chi^2$/NDF: 3836452.0/23

Left In: 531.773+/-0.094 $\chi^2$/NDF:3381293.8/22

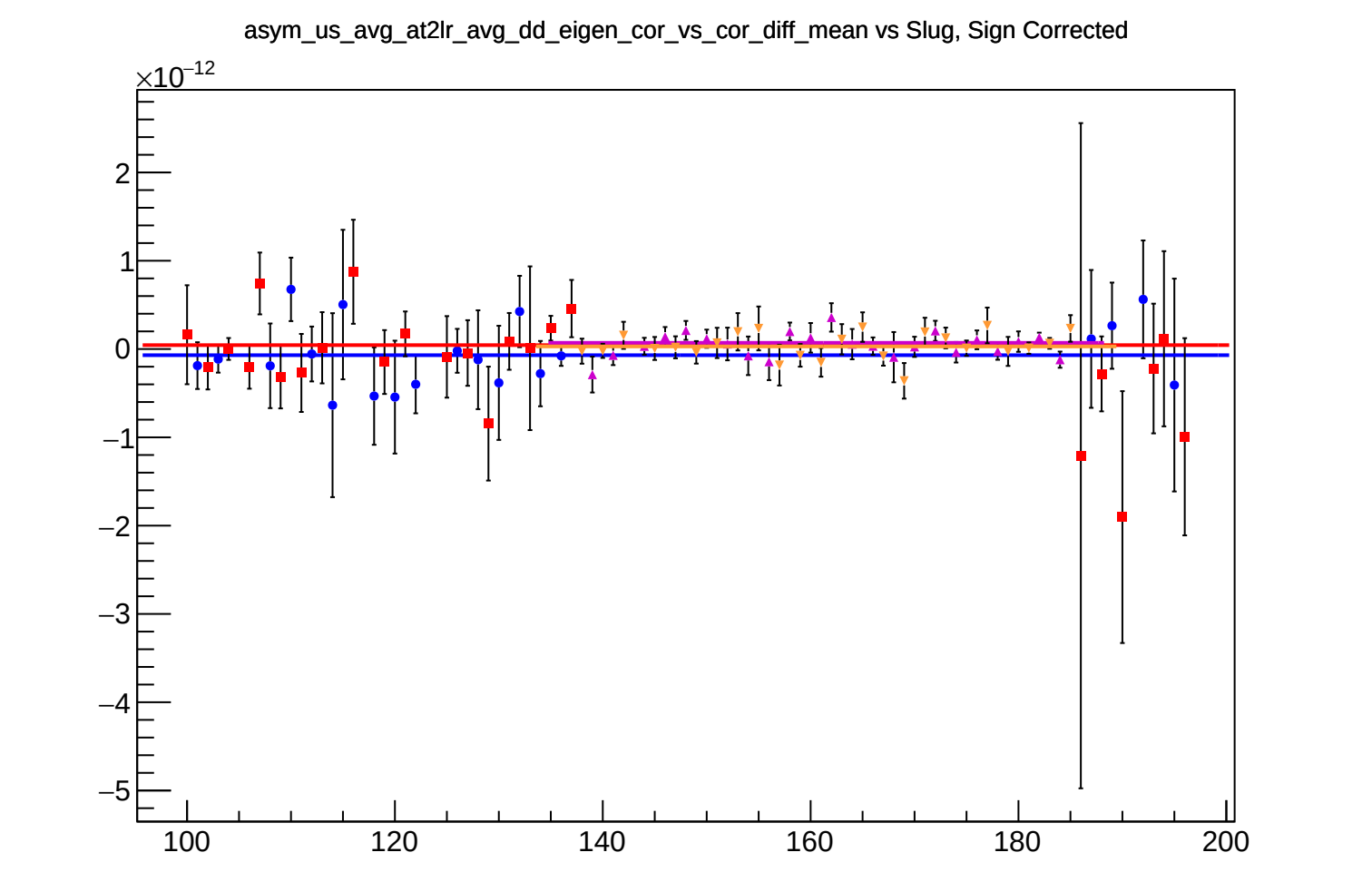
Left: 534.268+/-0.067 $\chi^2$/NDF: 7346152.7/46

Right: 238.863+/-0.041 $\chi^2$/NDF: 5958411.7/43

In: 362.989+/-0.054 $\chi^2$/NDF:9876949.5/42

Out: 289.400+/-0.045 $\chi^2$/NDF:16644572.1/47

All: 319.549+/-0.035 $\chi^2$/NDF: 27602366.5/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:17.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.4/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.4/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 42.6/46

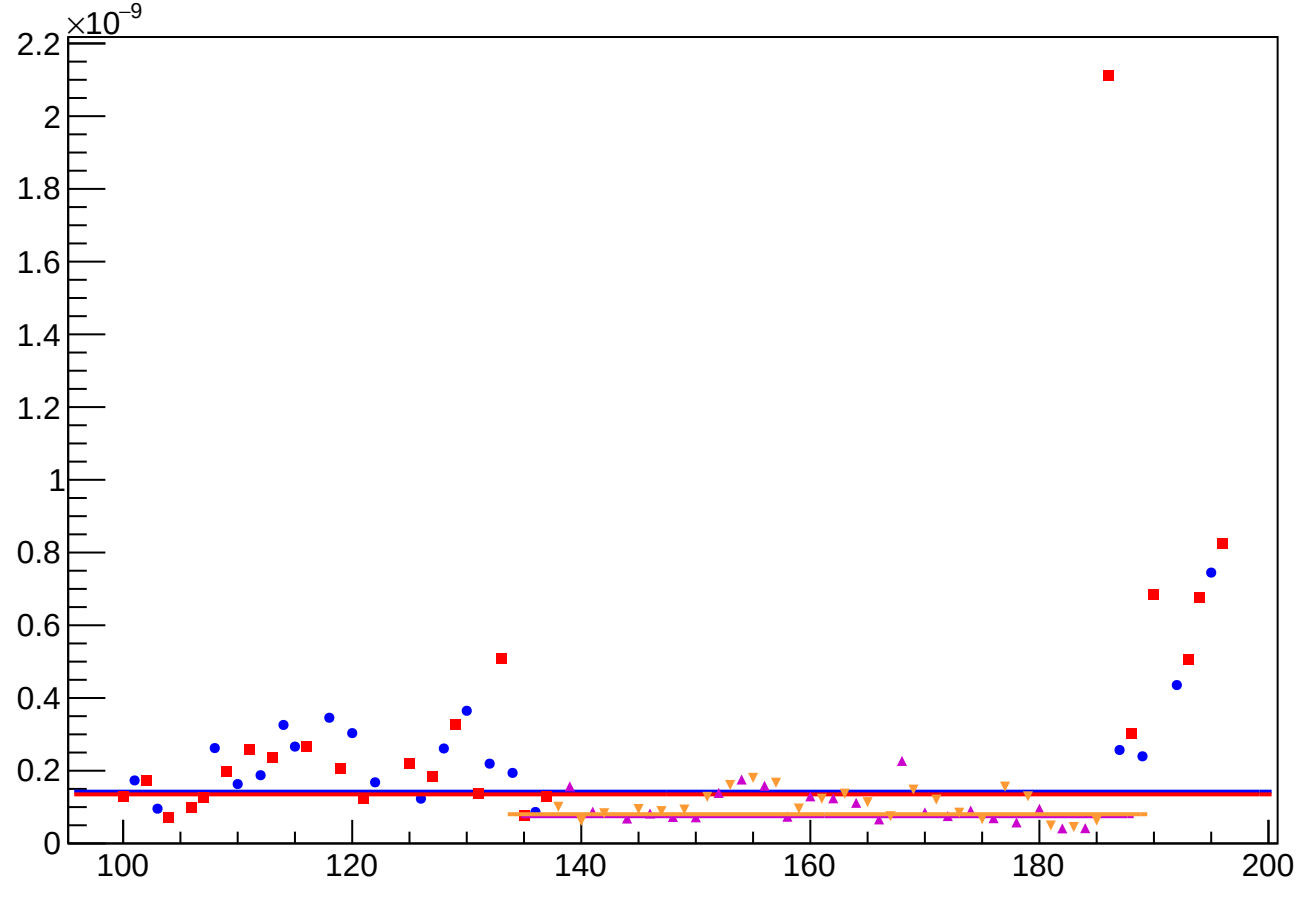
Right: -0.000+/-0.000 $\chi^2$/NDF: 32.2/43

In: 0.000+/-0.000 $\chi^2$/NDF:38.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:37.1/47

All: 0.000+/-0.000 $\chi^2$/NDF: 76.2/90

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2849787.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3732870.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5109913.4/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:3665599.9/22

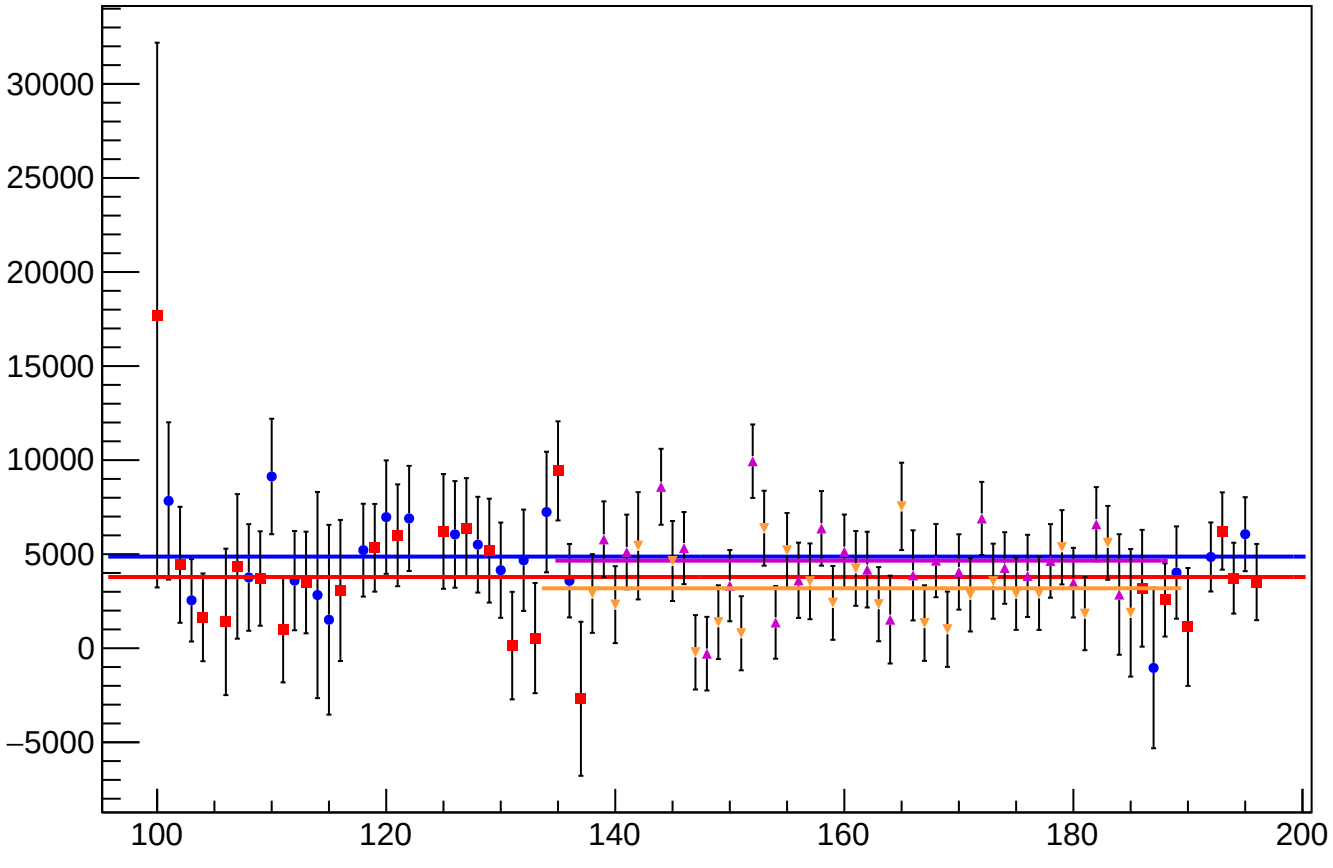
Left: 0.000+/-0.000 $\chi^2$/NDF: 7451186.8/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 7972370.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:8298119.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10141072.4/47

All: 0.000+/-0.000 $\chi^2$/NDF: 18498810.6/90




Right In: 4870.983+/-595.166 $\chi^2$/NDF: 9.3/19

Left Out: 3187.125+/-418.619 $\chi^2$/NDF:19.9/23

Right Out: 3787.489+/-550.719 $\chi^2$/NDF: 18.8/23

Left In: 4655.206+/-421.691 $\chi^2$/NDF:27.7/22

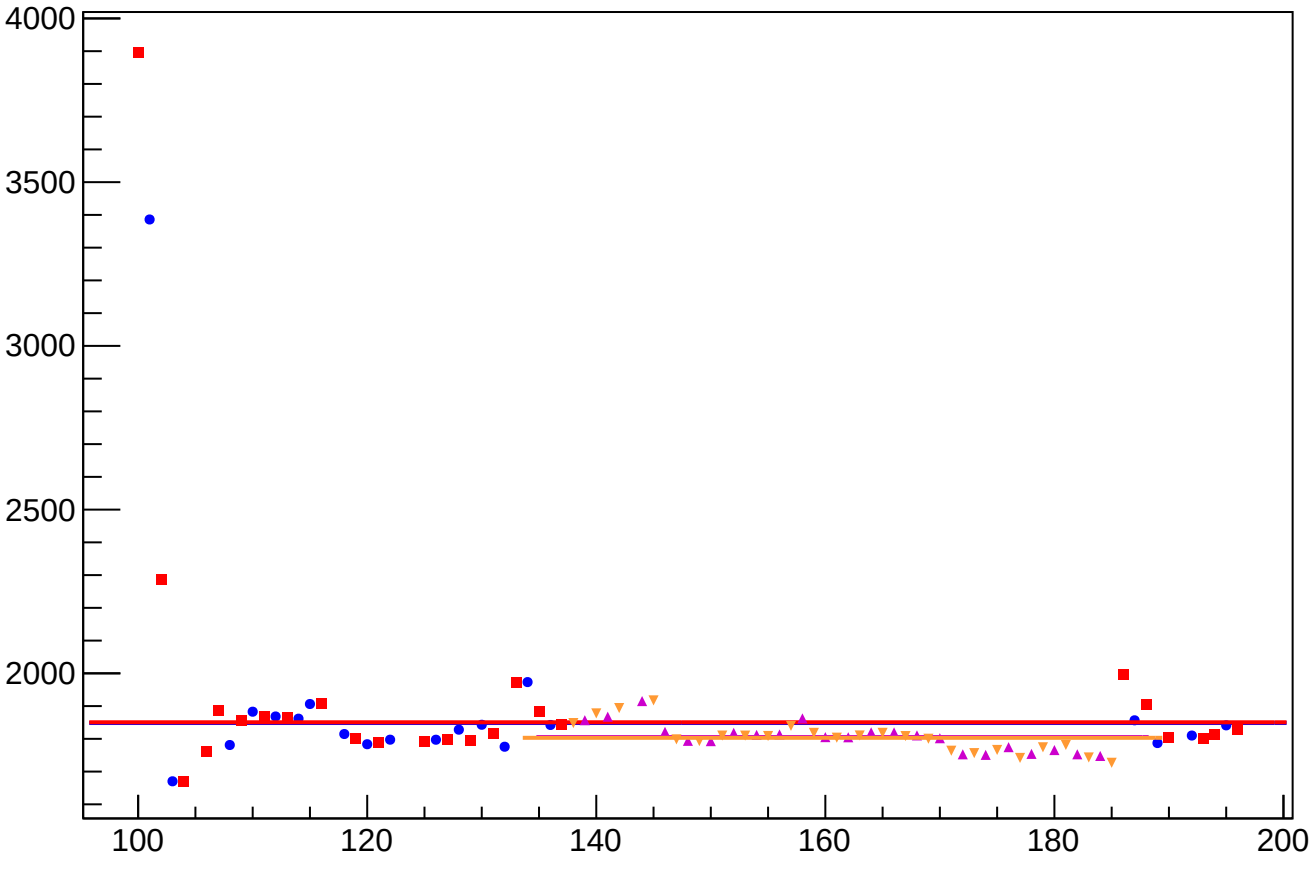
Left: 3915.797+/-297.089 $\chi^2$/NDF: 53.7/46

Right: 4287.272+/-404.218 $\chi^2$/NDF: 29.8/43

In: 4727.324+/-344.079 $\chi^2$/NDF:37.1/42

Out: 3406.982+/-333.267 $\chi^2$/NDF:39.4/47

All: 4046.083+/-239.387 $\chi^2$/NDF: 84.0/90




Right In: 1848.313+/-0.421 $\chi^2$/NDF: 294995.0/19

Left Out: 1803.115+/-0.296 $\chi^2$/NDF:20641.1/23

Right Out: 1850.552+/-0.389 $\chi^2$/NDF: 110826.6/23

Left In: 1805.559+/-0.298 $\chi^2$/NDF:19314.7/22

Left: 1804.328+/-0.210 $\chi^2$/NDF: 39989.6/46

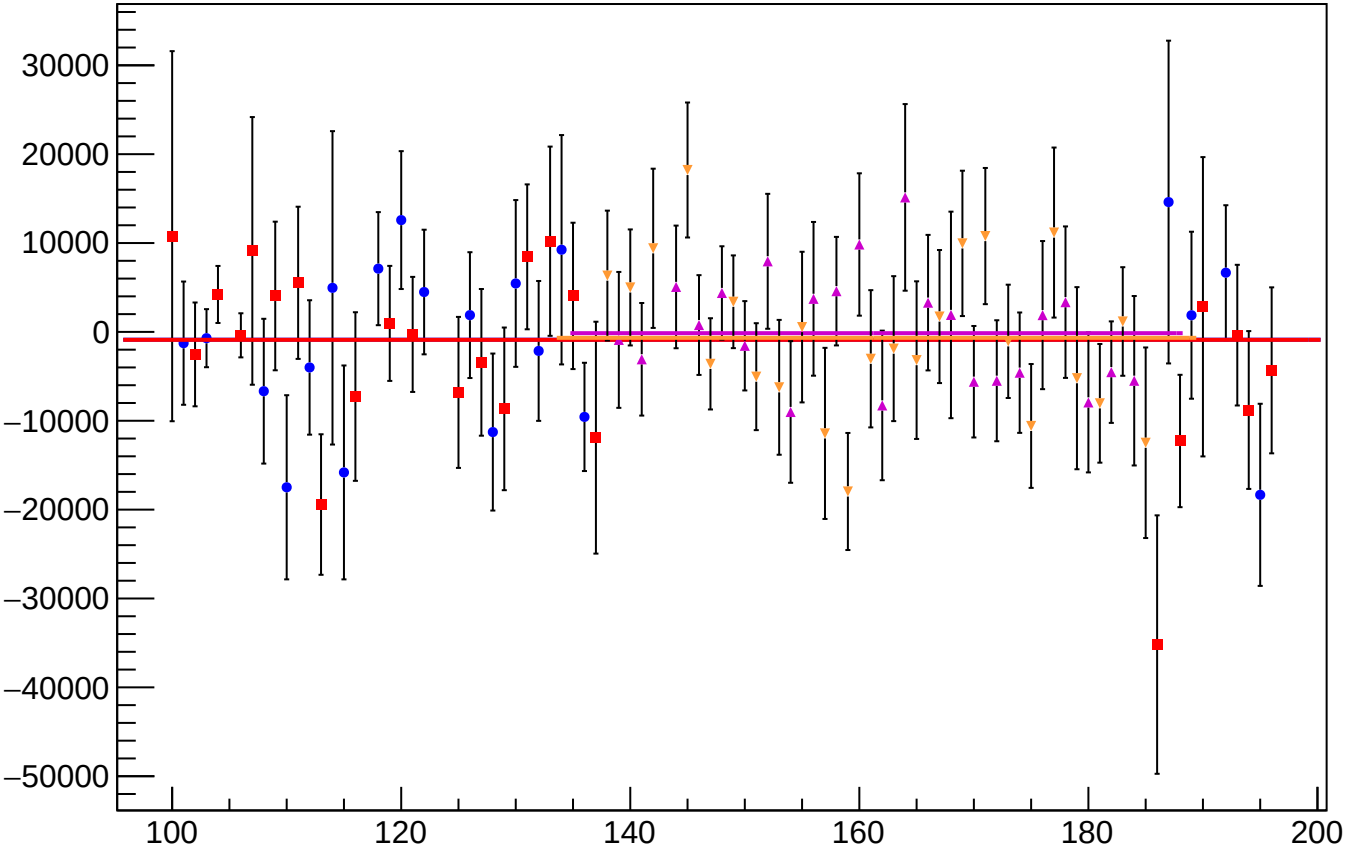
Right: 1849.521+/-0.286 $\chi^2$/NDF: 405836.8/43

In: 1819.848+/-0.243 $\chi^2$/NDF:321181.1/42

Out: 1820.528+/-0.235 $\chi^2$/NDF:140895.4/47

All: 1820.199+/-0.169 $\chi^2$/NDF: 462080.5/90

asym_us_avg_atlr_avg_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -877.622+/-1660.856 $\chi^2$/NDF: 19.4/19

Left Out: -667.243+/-1478.798 $\chi^2$/NDF:29.8/23

Right Out: -893.009+/-1348.844 $\chi^2$/NDF: 24.0/23

Left In: -143.435+/-1471.371 $\chi^2$/NDF:13.6/22

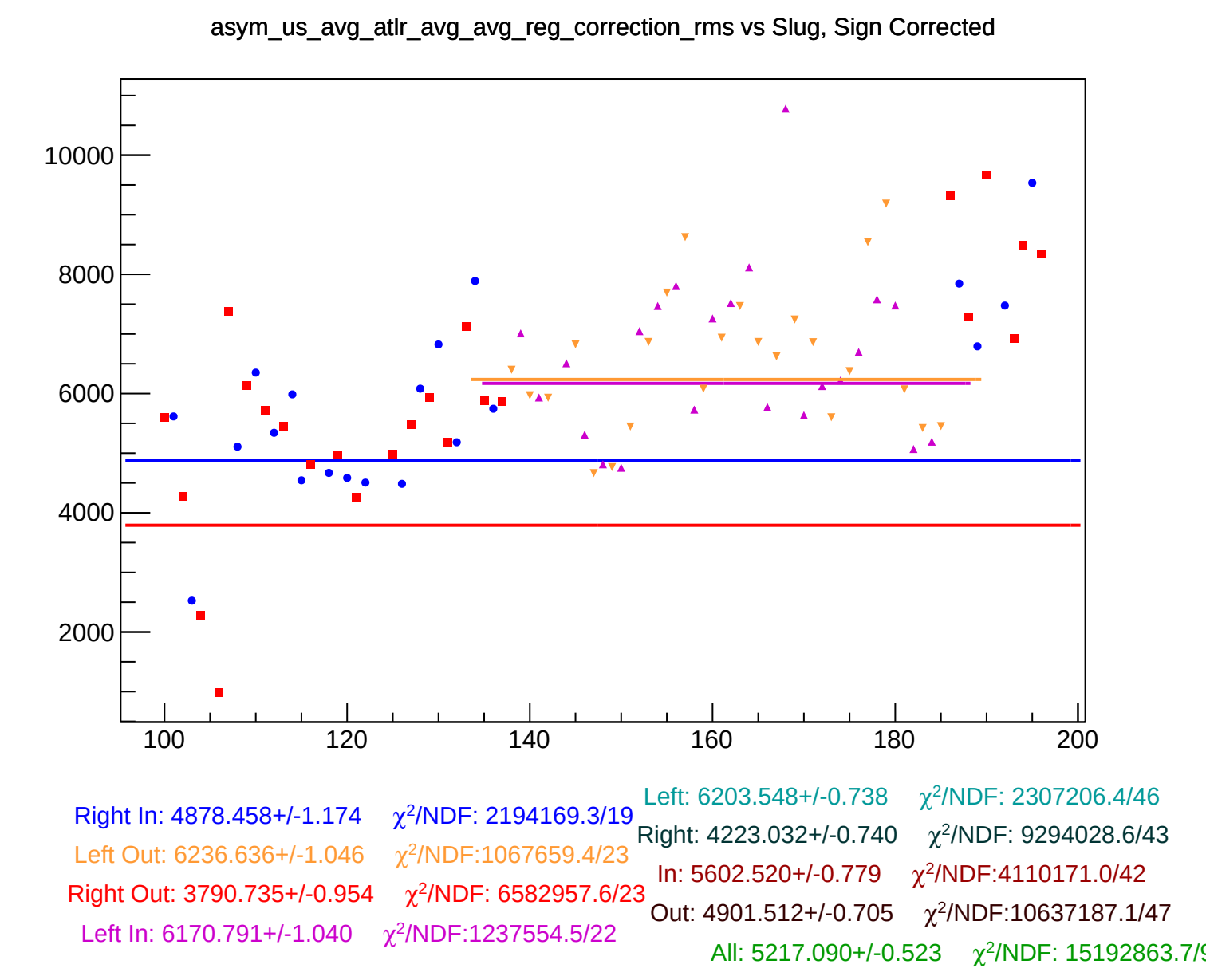
Left: -404.020+/-1043.032 $\chi^2$/NDF: 43.4/46

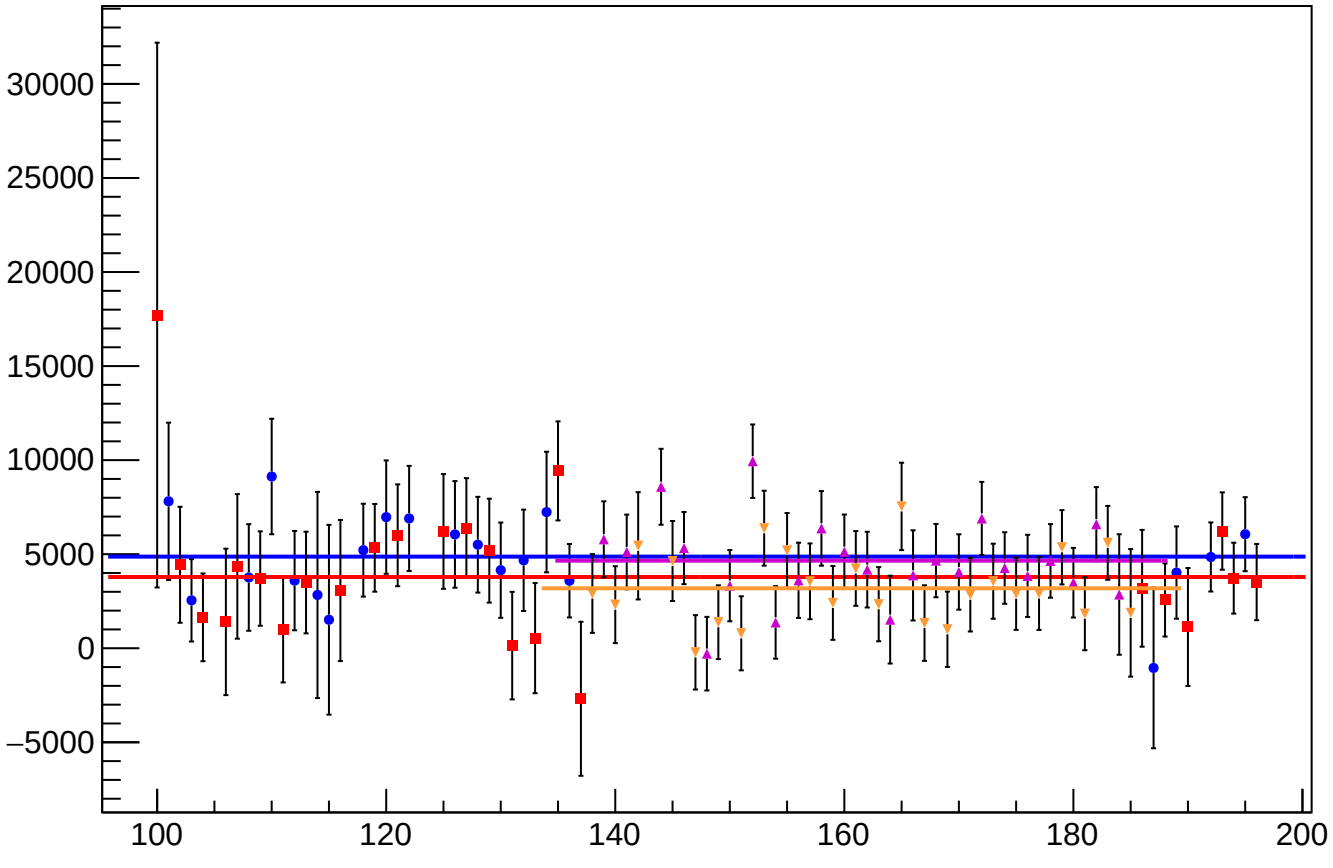
Right: -886.894+/-1047.042 $\chi^2$/NDF: 43.4/43

In: -466.276+/-1101.343 $\chi^2$/NDF:33.1/42

Out: -790.480+/-996.559 $\chi^2$/NDF:53.8/47

All: -644.531+/-738.949 $\chi^2$/NDF: 87.0/90


asym_us_avg_atlr_avg_avg_reg_correction_rms vs Slug, Sign Corrected
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 4878.458+/-1.174 χ²/NDF: 2194169.3/19
Left Out: 6236.636+/-1.046 χ²/NDF:1067659.4/23
Right Out: 3790.735+/-0.954 χ²/NDF: 6582957.6/23
Left In: 6170.791+/-1.040 χ²/NDF:1237554.5/22
Left: 6203.548+/-0.738 χ²/NDF: 2307206.4/46
Right: 4223.032+/-0.740 χ²/NDF: 9294028.6/43
In: 5602.520+/-0.779 χ²/NDF:4110171.0/42
Out: 4901.512+/-0.705 χ²/NDF:10637187.1/47
All: 5217.090+/-0.523 χ²/NDF: 15192863.7/9




Right In: 4870.664+/-595.166 $\chi^2$/NDF: 9.3/19

Left Out: 3187.056+/-418.619 $\chi^2$/NDF:19.9/23

Right Out: 3787.337+/-550.719 $\chi^2$/NDF: 18.8/23

Left In: 4655.225+/-421.691 $\chi^2$/NDF:27.7/22

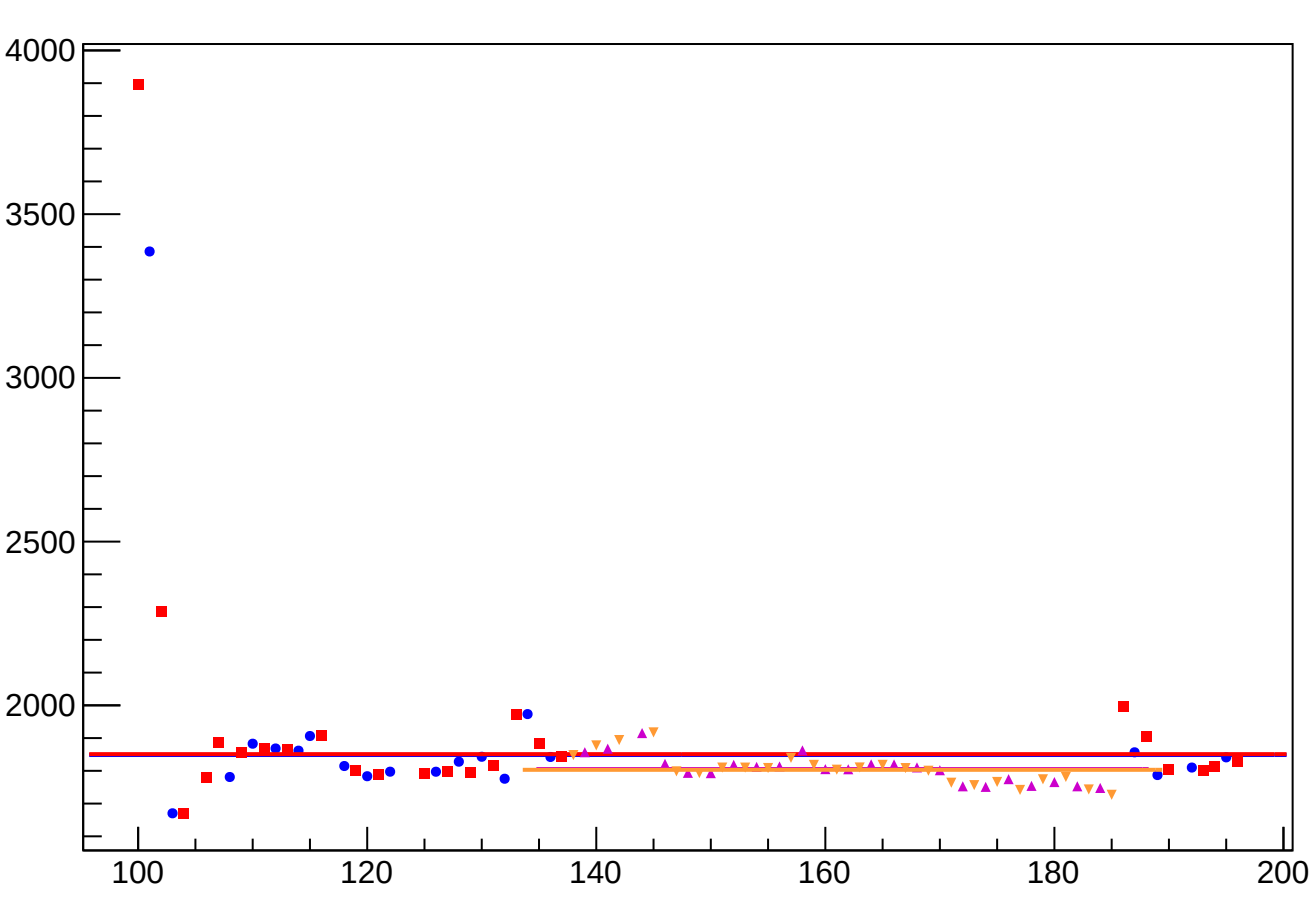
Left: 3915.772+/-297.089 $\chi^2$/NDF: 53.7/46

Right: 4287.042+/-404.218 $\chi^2$/NDF: 29.8/43

In: 4727.230+/-344.079 $\chi^2$/NDF:37.1/42

Out: 3406.883+/-333.267 $\chi^2$/NDF:39.4/47

All: 4045.986+/-239.387 $\chi^2$/NDF: 84.0/90




Right In: 1848.313+/-0.421 $\chi^2$/NDF: 294996.8/19

Left Out: 1803.115+/-0.296 $\chi^2$/NDF:20641.1/23

Right Out: 1850.994+/-0.389 $\chi^2$/NDF: 110374.2/23

Left In: 1805.559+/-0.298 $\chi^2$/NDF:19314.6/22

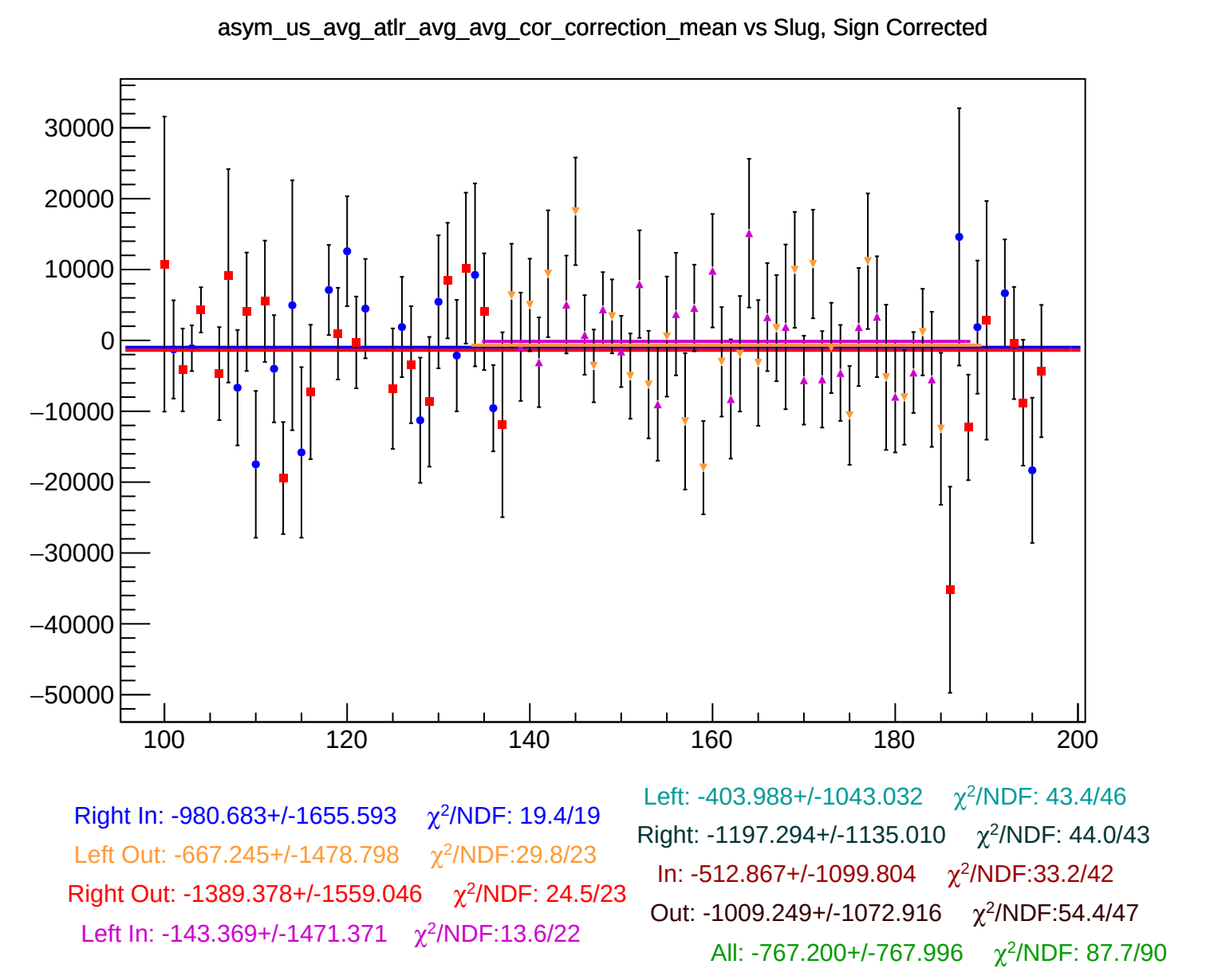
Left: 1804.328+/-0.210 $\chi^2$/NDF: 39989.6/46

Right: 1849.760+/-0.286 $\chi^2$/NDF: 405393.0/43

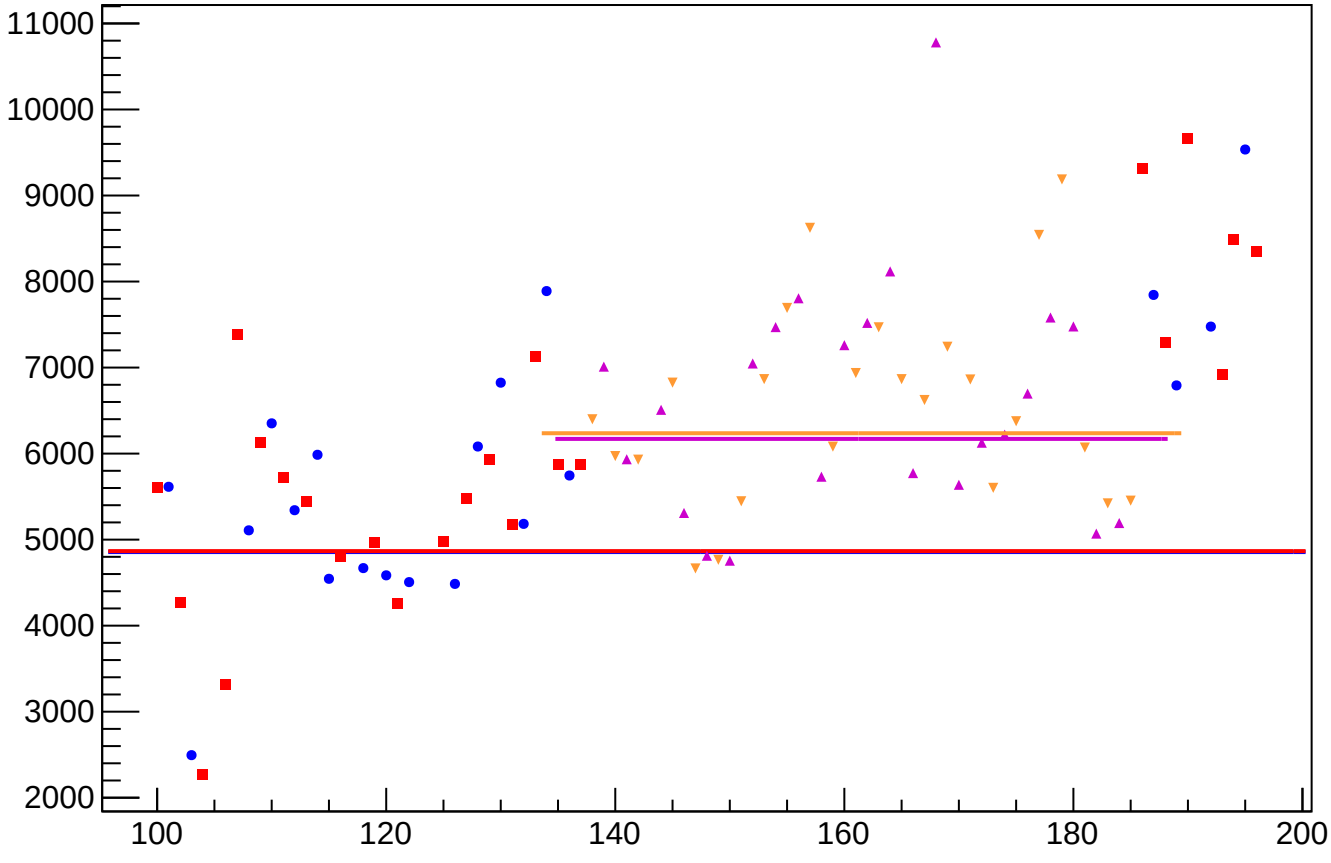
In: 1819.848+/-0.243 $\chi^2$/NDF:321182.9/42

Out: 1820.686+/-0.236 $\chi^2$/NDF:140617.2/47

All: 1820.281+/-0.169 $\chi^2$/NDF: 461806.2/90


asym_us_avg_atlr_avg_avg_cor_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -980.683+/-1655.593 χ²/NDF: 19.4/19
Left Out: -667.245+/-1478.798 χ²/NDF:29.8/23
Right Out: -1389.378+/-1559.046 χ²/NDF: 24.5/23
Left In: -143.369+/-1471.371 χ²/NDF:13.6/22
Left: -403.988+/-1043.032 χ²/NDF: 43.4/46
Right: -1197.294+/-1135.010 χ²/NDF: 44.0/43
In: -512.867+/-1099.804 χ²/NDF:33.2/42
Out: -1009.249+/-1072.916 χ²/NDF:54.4/47
All: -767.200+/-767.996 χ²/NDF: 87.7/90

asym_us_avg_atlr_avg_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 4855.452+/-1.171 $\chi^2$/NDF: 2247185.8/19

Left Out: 6236.635+/-1.046 $\chi^2$/NDF:1067665.4/23

Right Out: 4866.462+/-1.102 $\chi^2$/NDF: 3088183.2/23

Left In: 6170.789+/-1.040 $\chi^2$/NDF:1237564.5/22

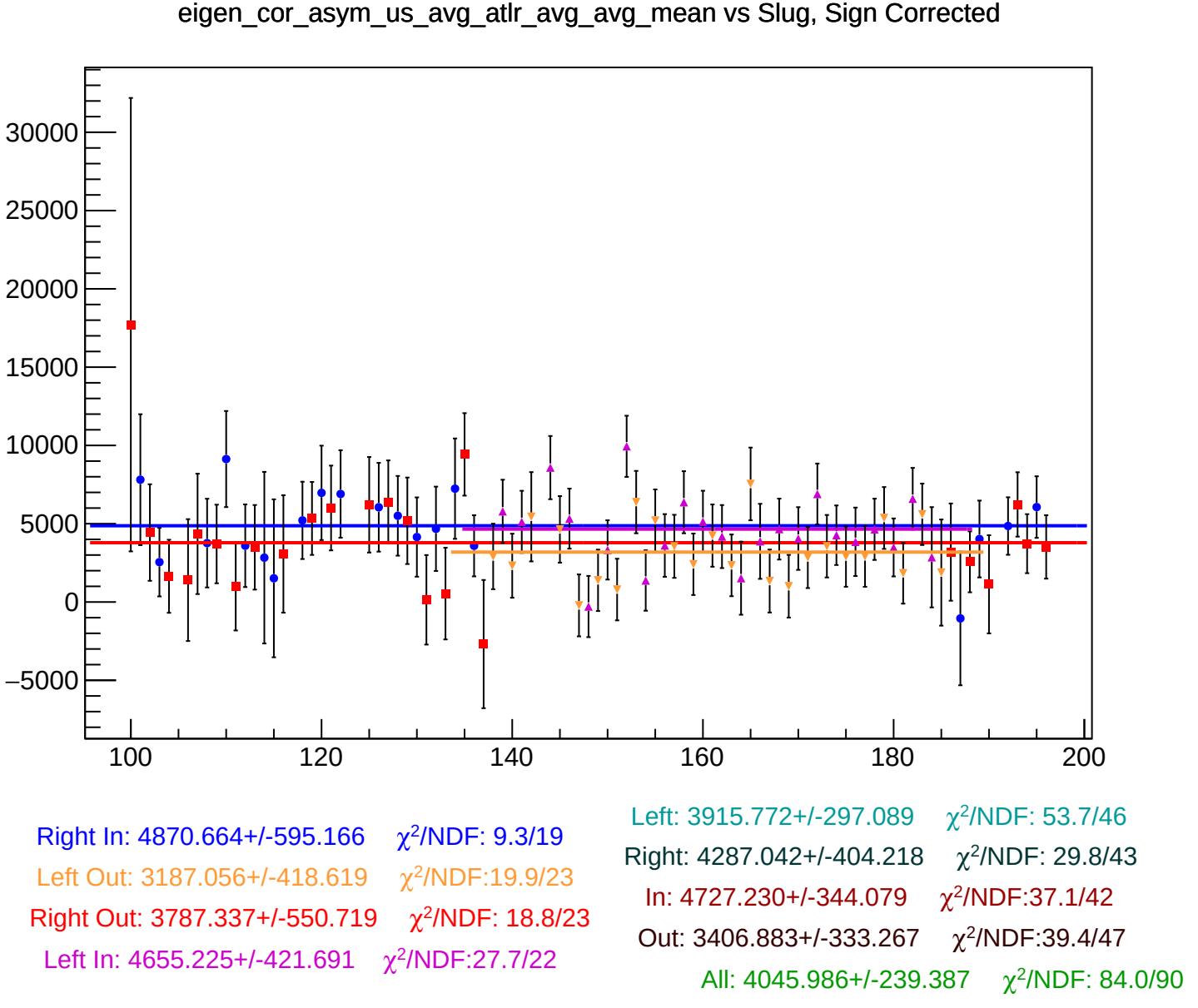
Left: 6203.546+/-0.738 $\chi^2$/NDF: 2307222.5/46

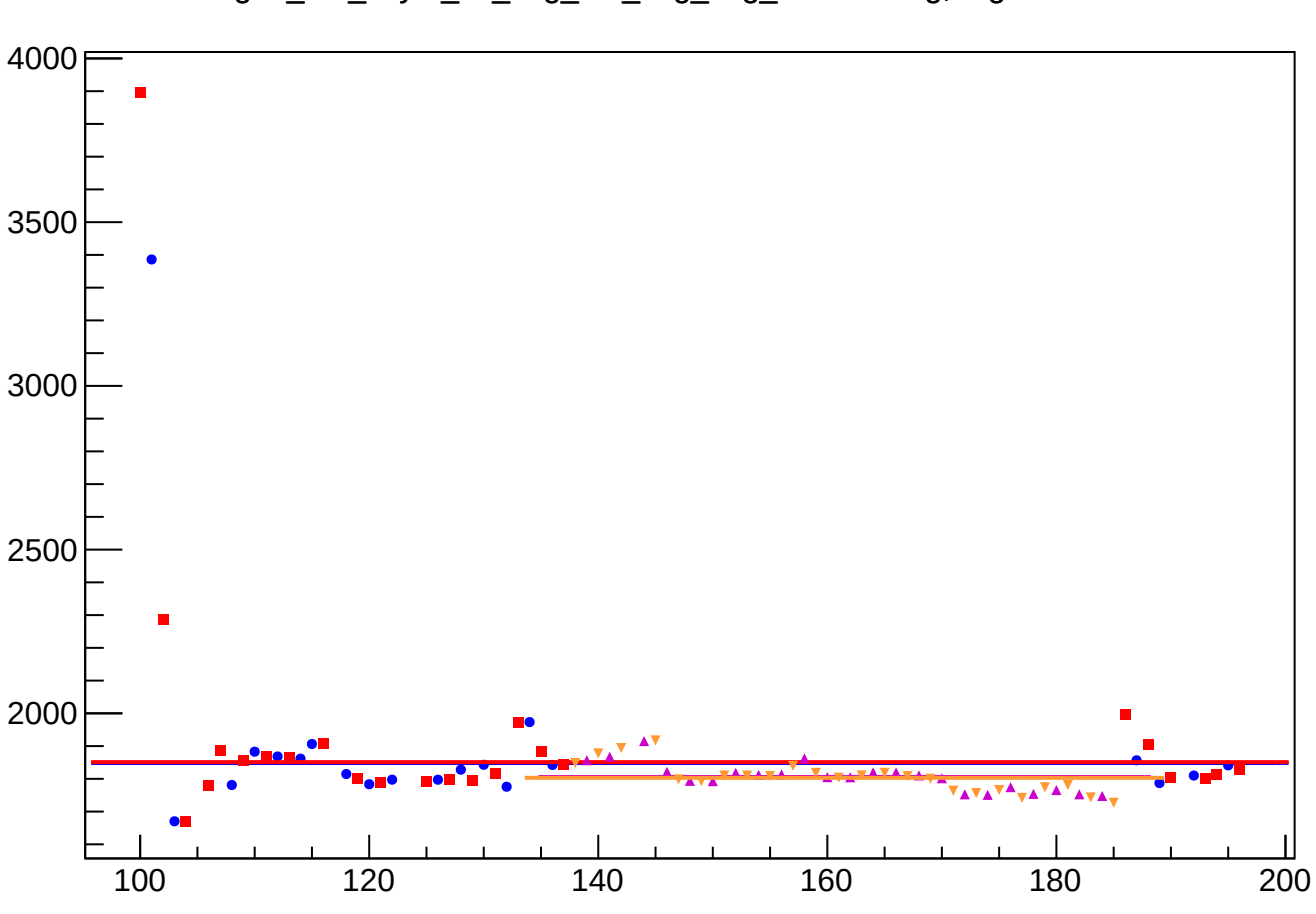
Right: 4861.288+/-0.803 $\chi^2$/NDF: 5335415.8/43

In: 5590.345+/-0.778 $\chi^2$/NDF:4190065.2/42

Out: 5587.718+/-0.759 $\chi^2$/NDF:4969009.6/47

All: 5588.999+/-0.543 $\chi^2$/NDF: 9159080.6/90


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs Slug, Sign Corrected
30000
25000
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: 4870.664+/-595.166 χ²/NDF: 9.3/19
Left Out: 3187.056+/-418.619 χ²/NDF:19.9/23
Right Out: 3787.337+/-550.719 χ²/NDF: 18.8/23
Left In: 4655.225+/-421.691 χ²/NDF:27.7/22
Left: 3915.772+/-297.089 χ²/NDF: 53.7/46
Right: 4287.042+/-404.218 χ²/NDF: 29.8/43
In: 4727.230+/-344.079 χ²/NDF:37.1/42
Out: 3406.883+/-333.267 χ²/NDF:39.4/47
All: 4045.986+/-239.387 χ²/NDF: 84.0/90




Right In: 1848.313+/-0.421 $\chi^2$/NDF: 294996.8/19

Left Out: 1803.115+/-0.296 $\chi^2$/NDF:20641.1/23

Right Out: 1850.994+/-0.389 $\chi^2$/NDF: 110374.2/23

Left In: 1805.559+/-0.298 $\chi^2$/NDF:19314.6/22

Left: 1804.328+/-0.210 $\chi^2$/NDF: 39989.6/46

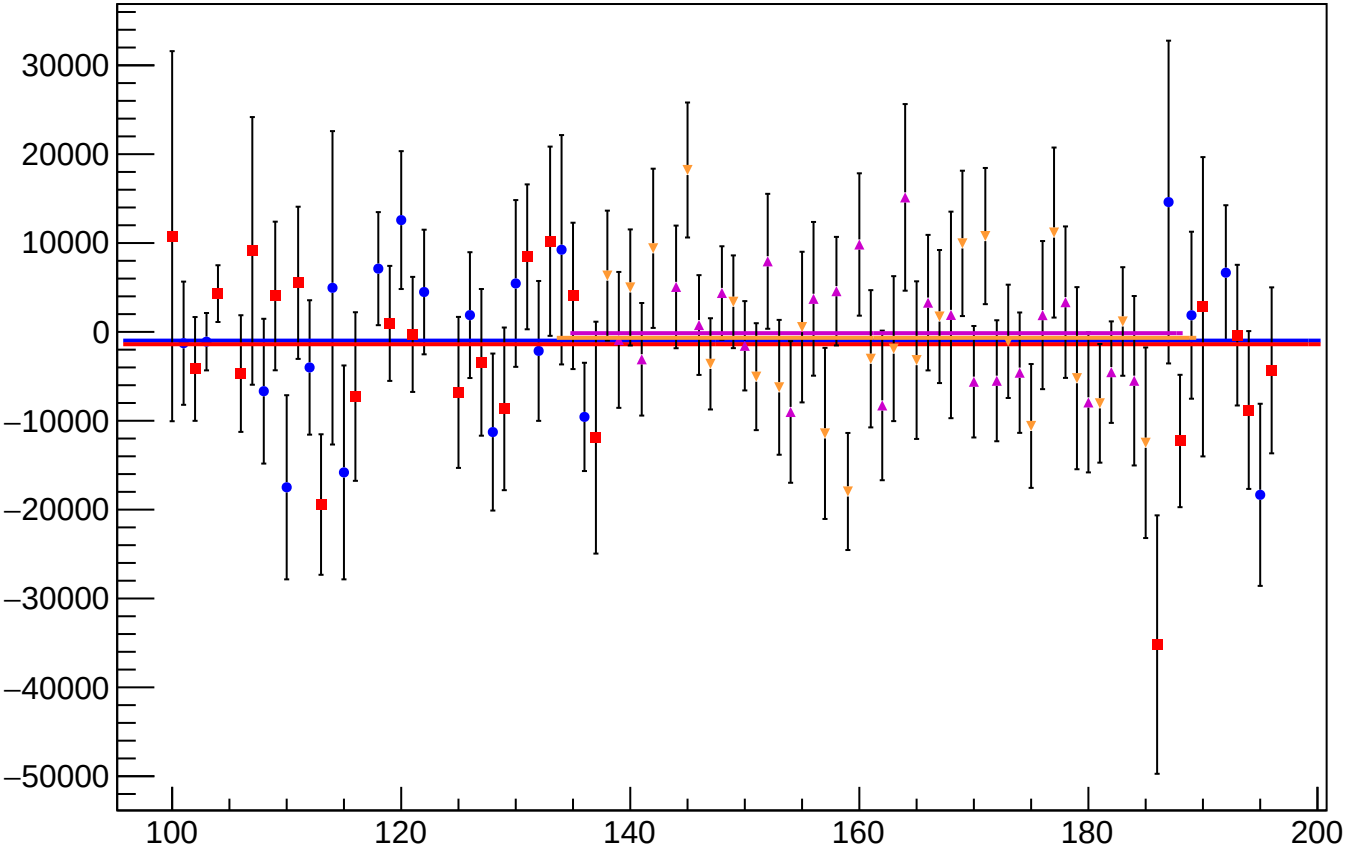
Right: 1849.760+/-0.286 $\chi^2$/NDF: 405393.0/43

In: 1819.848+/-0.243 $\chi^2$/NDF:321182.9/42

Out: 1820.686+/-0.236 $\chi^2$/NDF:140617.2/47

All: 1820.281+/-0.169 $\chi^2$/NDF: 461806.2/90

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -980.683+/-1655.593 $\chi^2$/NDF: 19.4/19

Left Out: -667.245+/-1478.798 $\chi^2$/NDF:29.8/23

Right Out: -1389.378+/-1559.046 $\chi^2$/NDF: 24.5/23

Left In: -143.369+/-1471.371 $\chi^2$/NDF:13.6/22

Left: -403.988+/-1043.032 $\chi^2$/NDF: 43.4/46

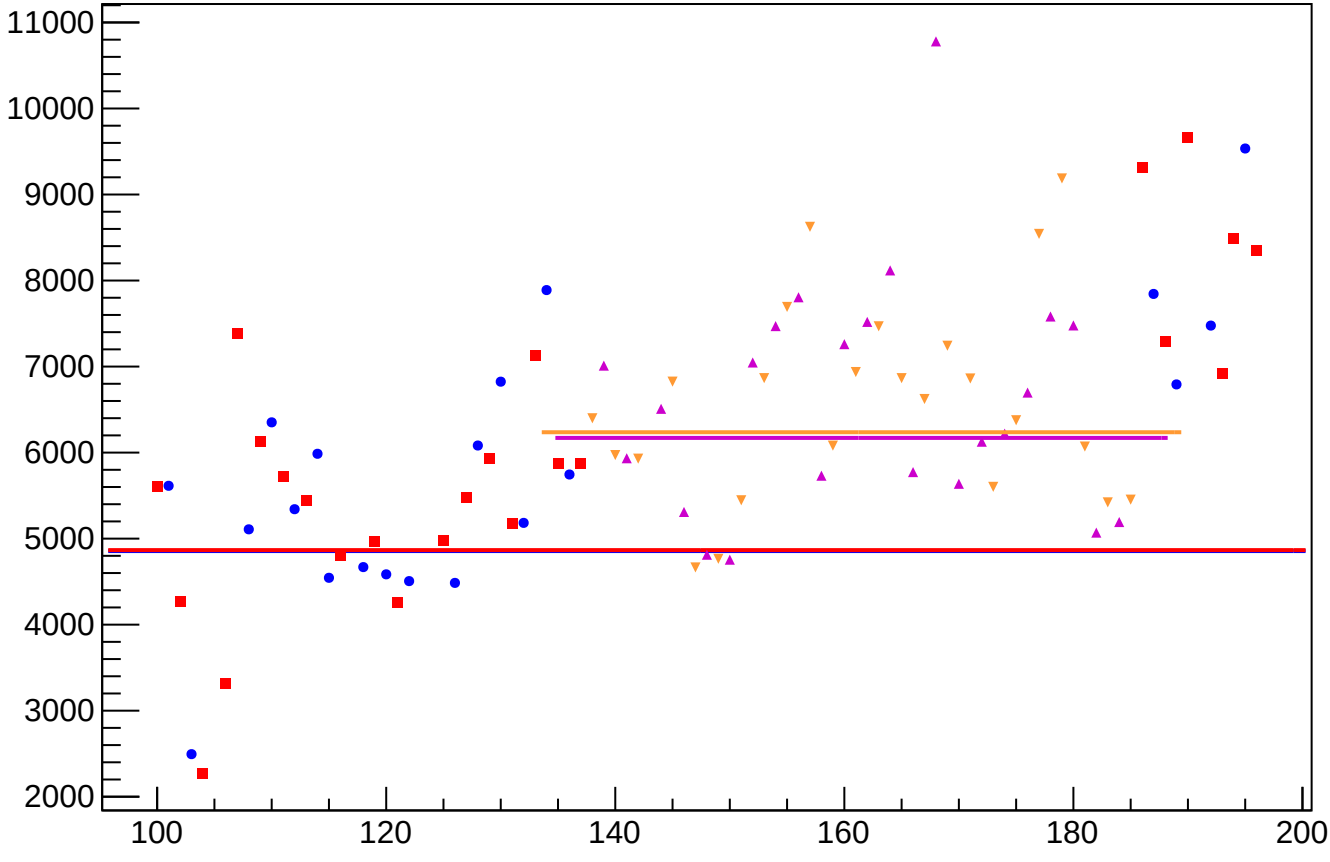
Right: -1197.294+/-1135.010 $\chi^2$/NDF: 44.0/43

In: -512.867+/-1099.804 $\chi^2$/NDF:33.2/42

Out: -1009.249+/-1072.916 $\chi^2$/NDF:54.4/47

All: -767.200+/-767.996 $\chi^2$/NDF: 87.7/90

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 4855.452+/-1.171 $\chi^2$/NDF: 2247185.8/19

Left Out: 6236.635+/-1.046 $\chi^2$/NDF:1067665.4/23

Right Out: 4866.462+/-1.102 $\chi^2$/NDF: 3088183.2/23

Left In: 6170.789+/-1.040 $\chi^2$/NDF:1237564.5/22

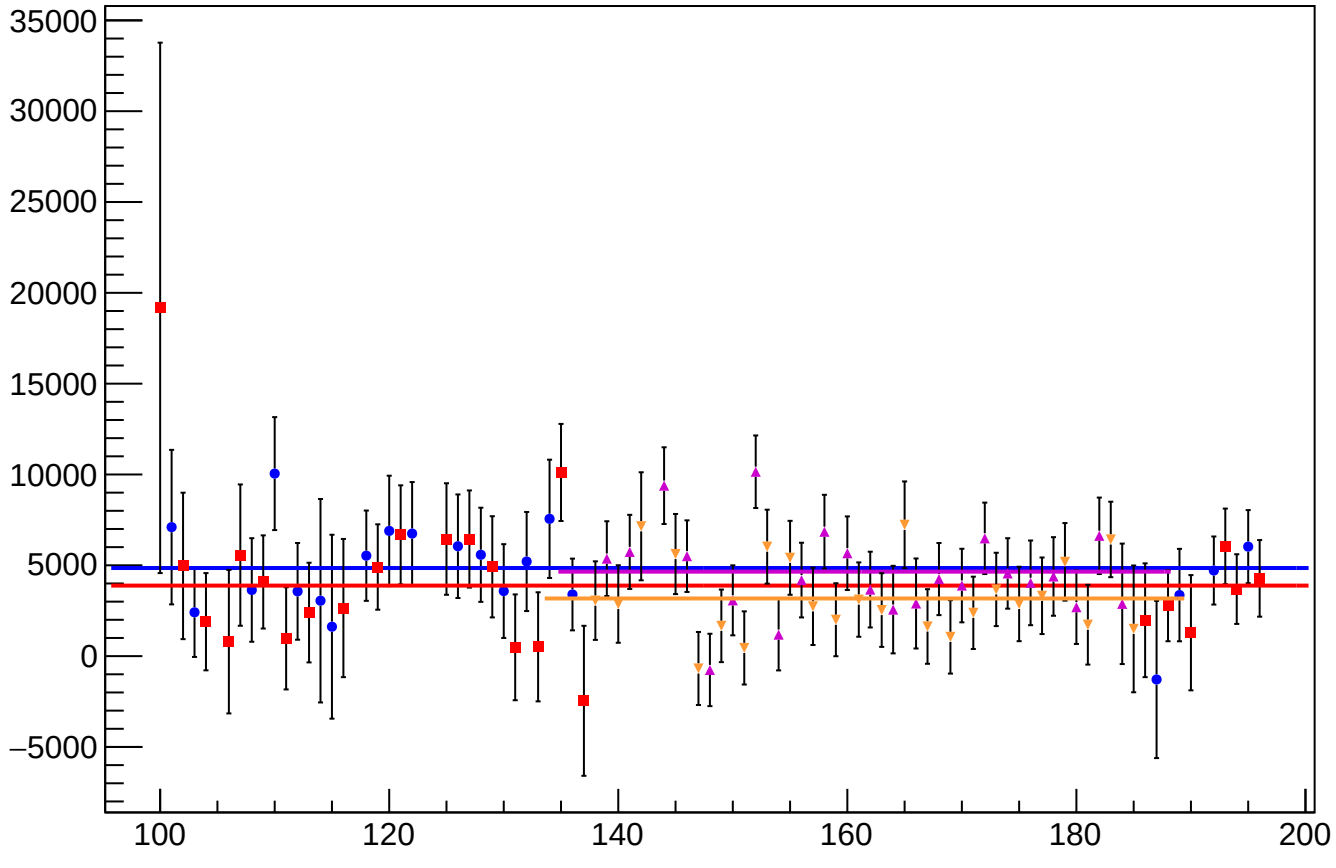
Left: 6203.546+/-0.738 $\chi^2$/NDF: 2307222.5/46

Right: 4861.288+/-0.803 $\chi^2$/NDF: 5335415.8/43

In: 5590.345+/-0.778 $\chi^2$/NDF:4190065.2/42

Out: 5587.718+/-0.759 $\chi^2$/NDF:4969009.6/47

All: 5588.999+/-0.543 $\chi^2$/NDF: 9159080.6/90




Right In: 4851.057+/-608.477 $\chi^2$/NDF: 10.4/19

Left Out: 3174.550+/-434.815 $\chi^2$/NDF:21.6/23

Right Out: 3883.116+/-565.749 $\chi^2$/NDF: 19.9/23

Left In: 4650.461+/-436.198 $\chi^2$/NDF:30.5/22

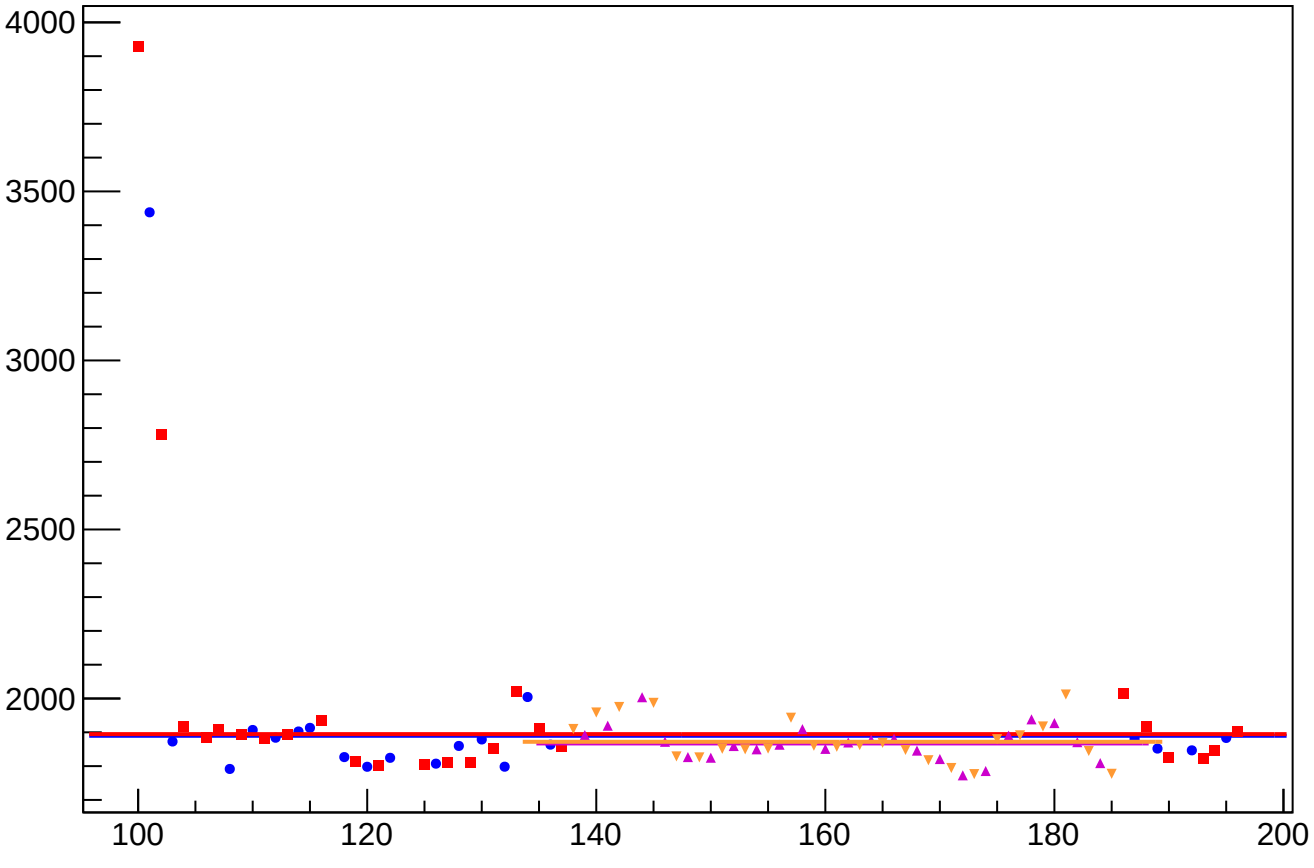
Left: 3910.162+/-307.948 $\chi^2$/NDF: 57.8/46

Right: 4331.911+/-414.328 $\chi^2$/NDF: 31.6/43

In: 4718.554+/-354.515 $\chi^2$/NDF:41.0/42

Out: 3437.671+/-344.756 $\chi^2$/NDF:42.4/47

All: 4060.239+/-247.157 $\chi^2$/NDF: 90.2/90




Right In: 1889.791+/-0.430 $\chi^2$/NDF: 280399.0/19

Left Out: 1871.979+/-0.307 $\chi^2$/NDF:37154.8/23

Right Out: 1894.656+/-0.400 $\chi^2$/NDF: 158376.1/23

Left In: 1867.079+/-0.308 $\chi^2$/NDF:27246.7/22

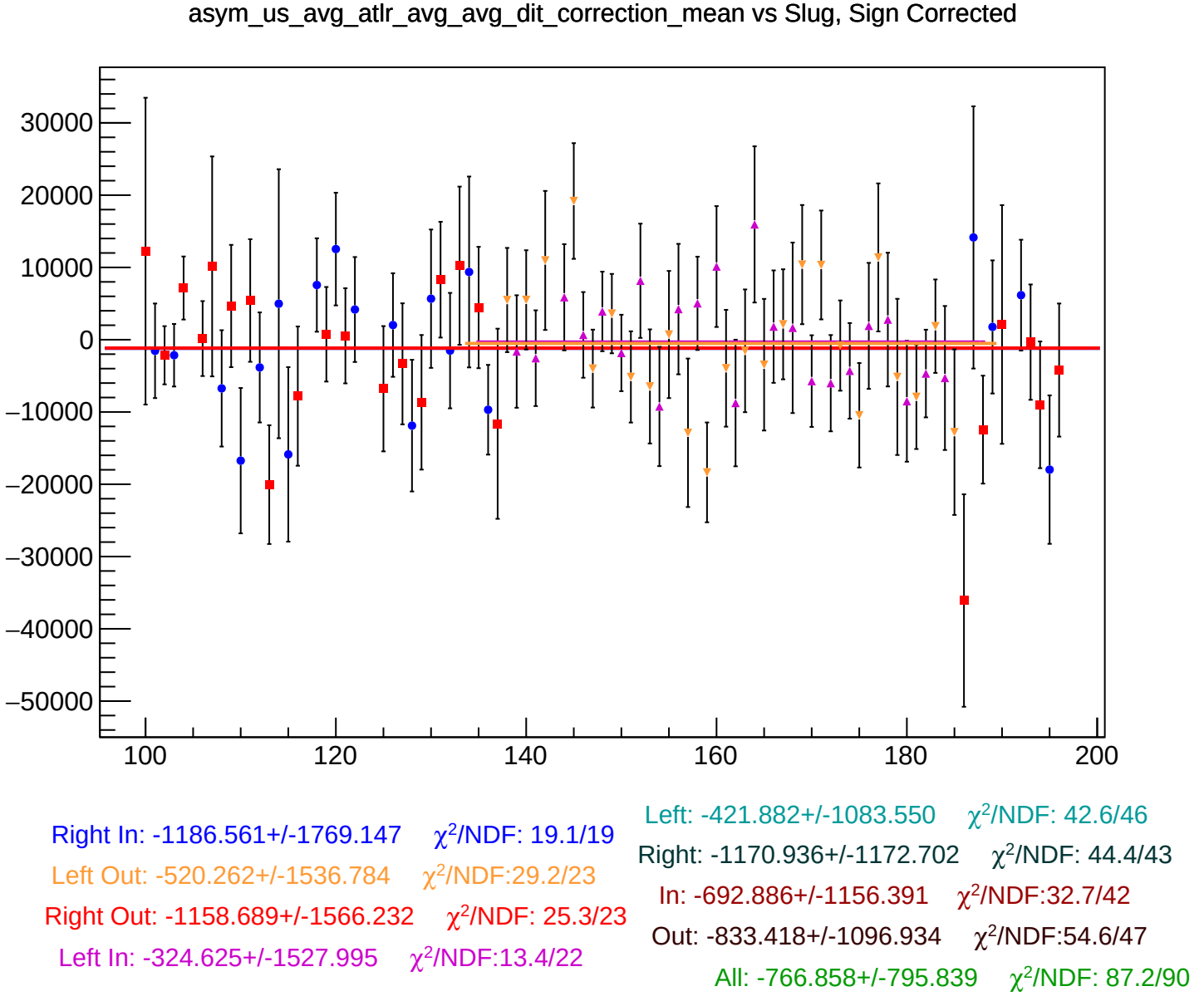
Left: 1869.537+/-0.218 $\chi^2$/NDF: 64528.1/46

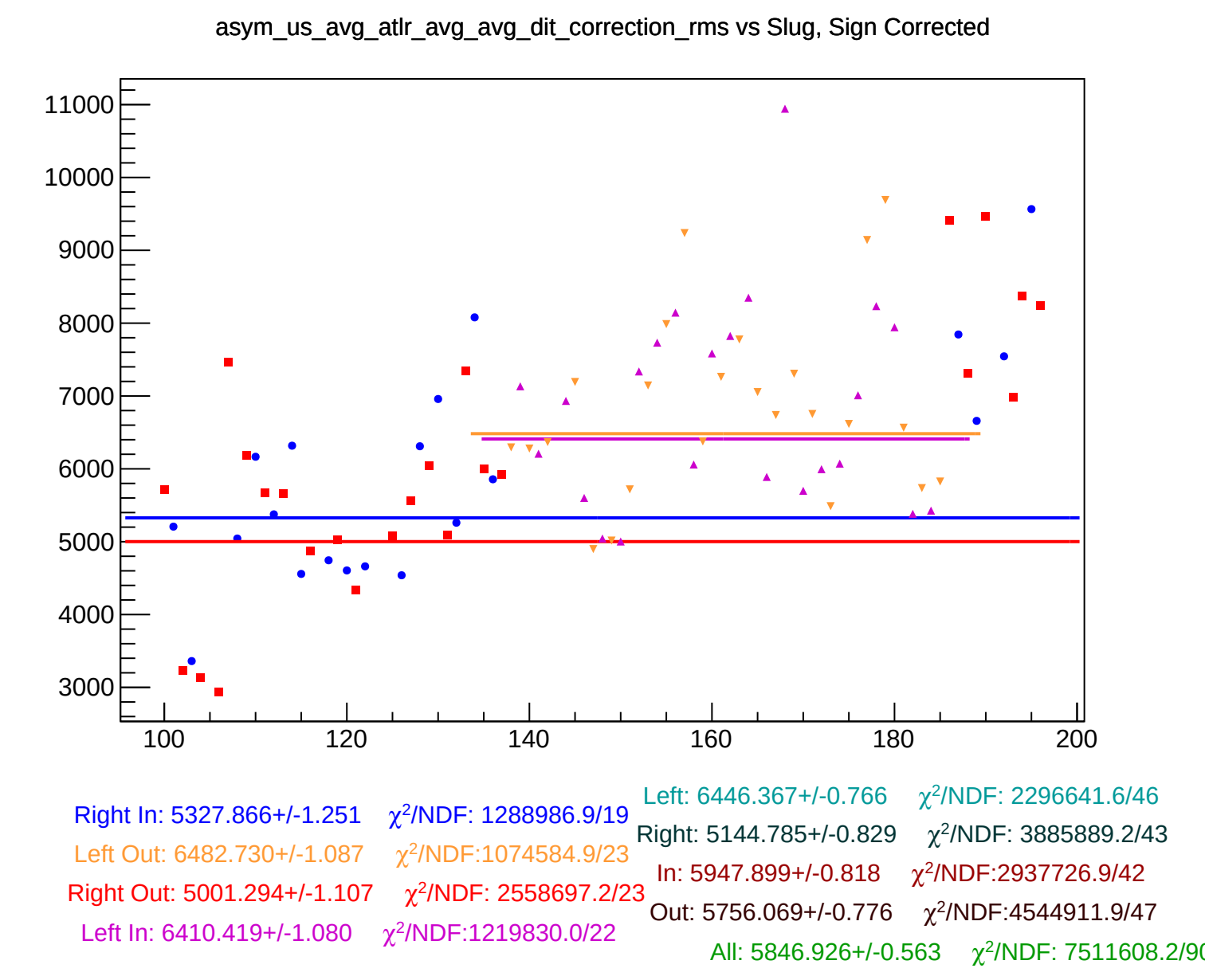
Right: 1892.402+/-0.293 $\chi^2$/NDF: 438843.8/43

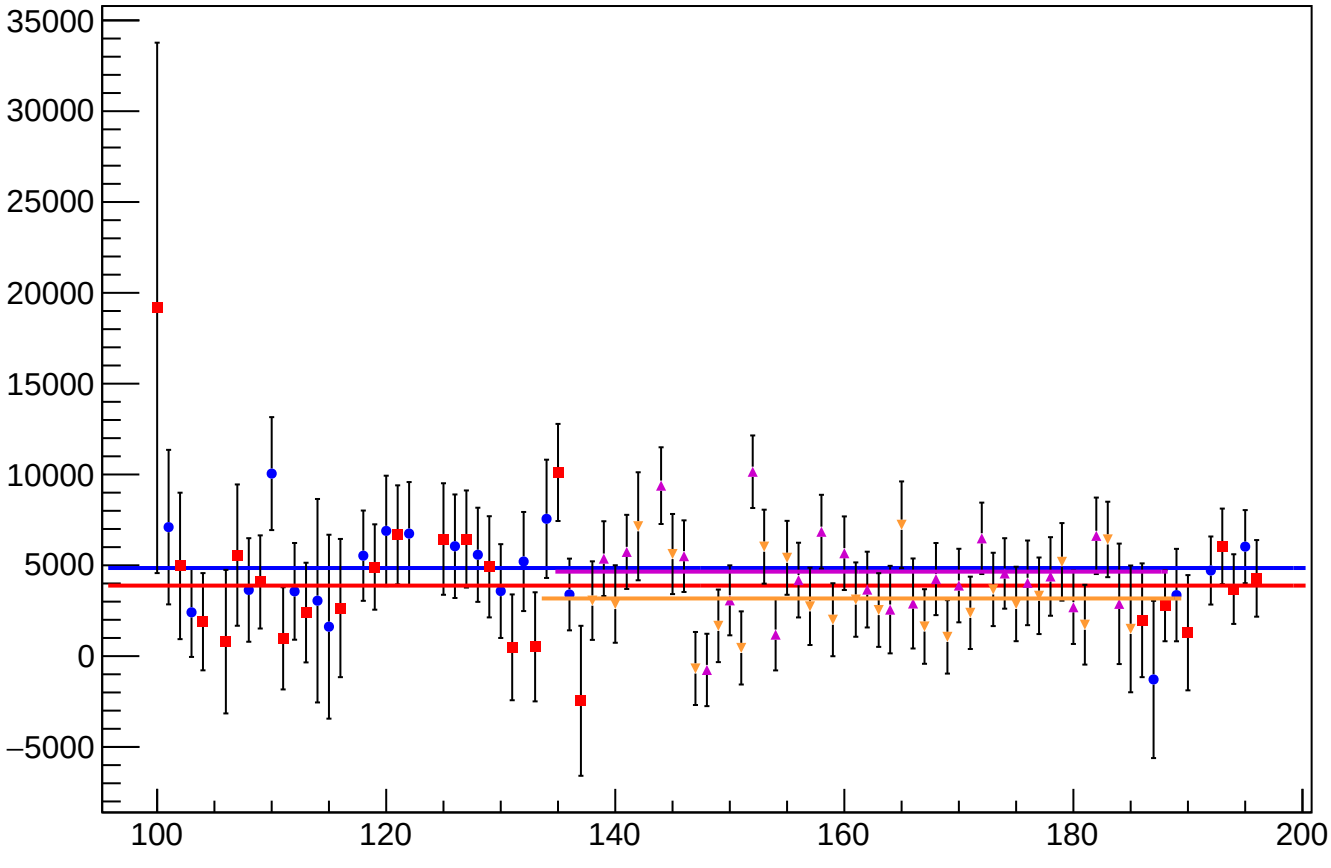
In: 1874.789+/-0.251 $\chi^2$/NDF:309486.3/42

Out: 1880.407+/-0.244 $\chi^2$/NDF:197552.7/47

All: 1877.677+/-0.175 $\chi^2$/NDF: 507297.2/90


asym_us_avg_atlr_avg_avg_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -1186.561+/-1769.147 χ²/NDF: 19.1/19
Left Out: -520.262+/-1536.784 χ²/NDF:29.2/23
Right Out: -1158.689+/-1566.232 χ²/NDF: 25.3/23
Left In: -324.625+/-1527.995 χ²/NDF:13.4/22
Left: -421.882+/-1083.550 χ²/NDF: 42.6/46
Right: -1170.936+/-1172.702 χ²/NDF: 44.4/43
In: -692.886+/-1156.391 χ²/NDF:32.7/42
Out: -833.418+/-1096.934 χ²/NDF:54.6/47
All: -766.858+/-795.839 χ²/NDF: 87.2/90


asym_us_avg_atlr_avg_avg_dit_correction_rms vs Slug, Sign Corrected
11000
10000
9000
8000
7000
6000
5000
4000
3000
100
120
140
160
180
200
Right In: 5327.866+/-1.251 χ²/NDF: 1288986.9/19
Left Out: 6482.730+/-1.087 χ²/NDF:1074584.9/23
Right Out: 5001.294+/-1.107 χ²/NDF: 2558697.2/23
Left In: 6410.419+/-1.080 χ²/NDF:1219830.0/22
Left: 6446.367+/-0.766 χ²/NDF: 2296641.6/46
Right: 5144.785+/-0.829 χ²/NDF: 3885889.2/43
In: 5947.899+/-0.818 χ²/NDF:2937726.9/42
Out: 5756.069+/-0.776 χ²/NDF:4544911.9/47
All: 5846.926+/-0.563 χ²/NDF: 7511608.2/90




Right In: 4851.053+/-608.477 $\chi^2$/NDF: 10.4/19

Left Out: 3174.543+/-434.815 $\chi^2$/NDF:21.6/23

Right Out: 3883.114+/-565.749 $\chi^2$/NDF: 19.9/23

Left In: 4650.462+/-436.198 $\chi^2$/NDF:30.5/22

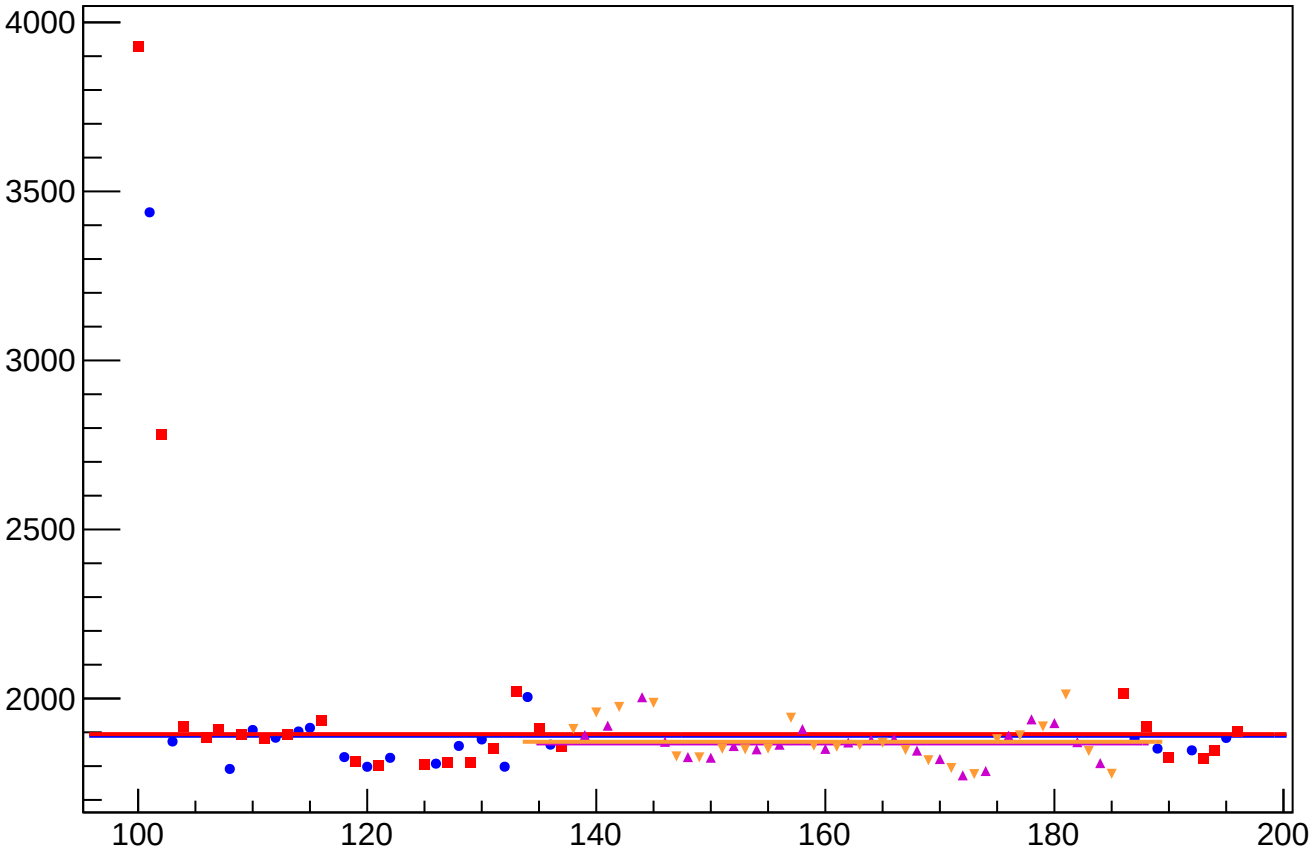
Left: 3910.160+/-307.949 $\chi^2$/NDF: 57.8/46

Right: 4331.908+/-414.328 $\chi^2$/NDF: 31.6/43

In: 4718.554+/-354.515 $\chi^2$/NDF:41.0/42

Out: 3437.667+/-344.756 $\chi^2$/NDF:42.4/47

All: 4060.236+/-247.157 $\chi^2$/NDF: 90.2/90




Right In: 1889.790+/-0.430 $\chi^2$/NDF: 280399.3/19

Left Out: 1871.981+/-0.307 $\chi^2$/NDF:37155.9/23

Right Out: 1894.656+/-0.400 $\chi^2$/NDF: 158375.2/23

Left In: 1867.080+/-0.308 $\chi^2$/NDF:27247.8/22

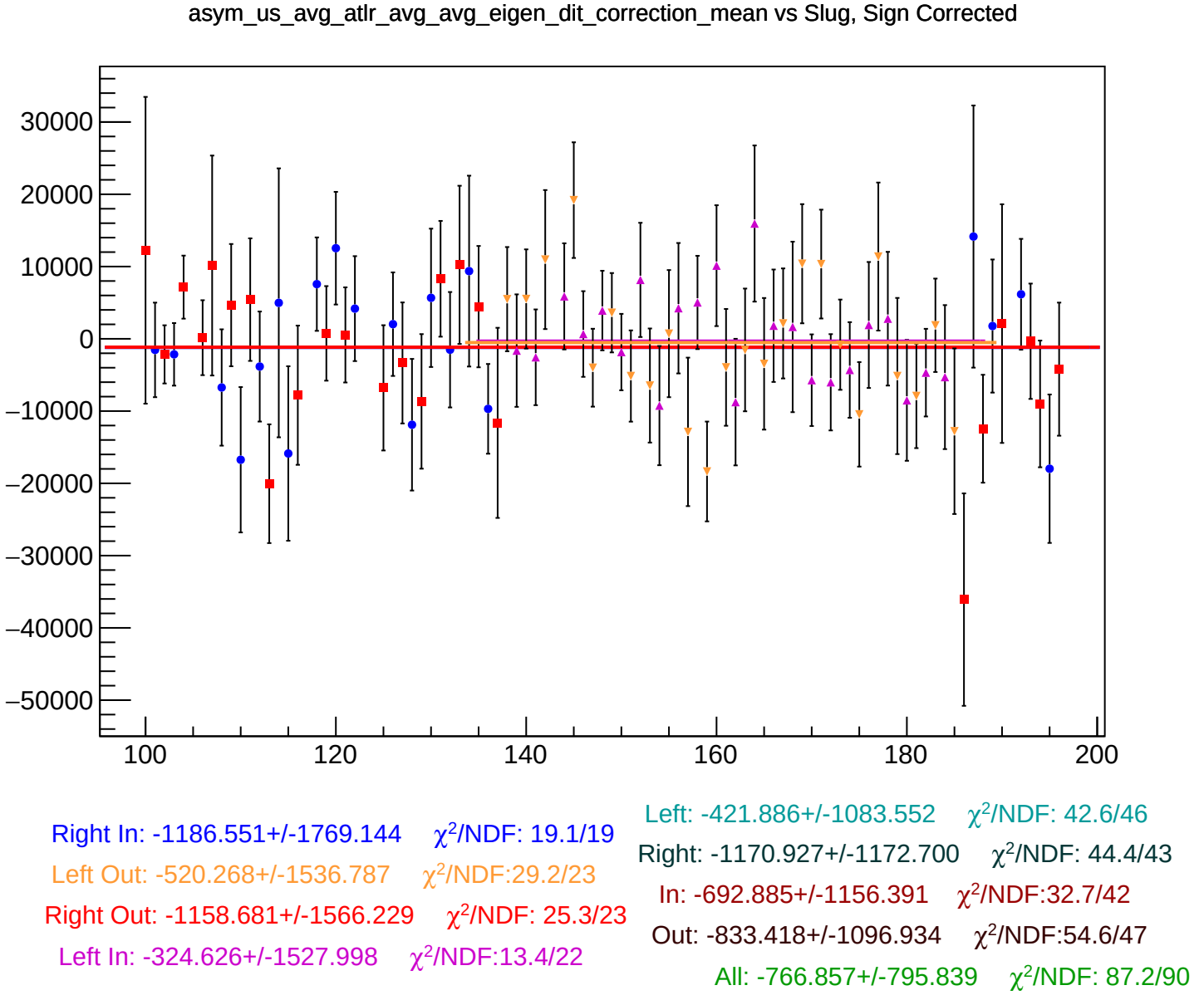
Left: 1869.538+/-0.218 $\chi^2$/NDF: 64530.3/46

Right: 1892.401+/-0.293 $\chi^2$/NDF: 438843.2/43

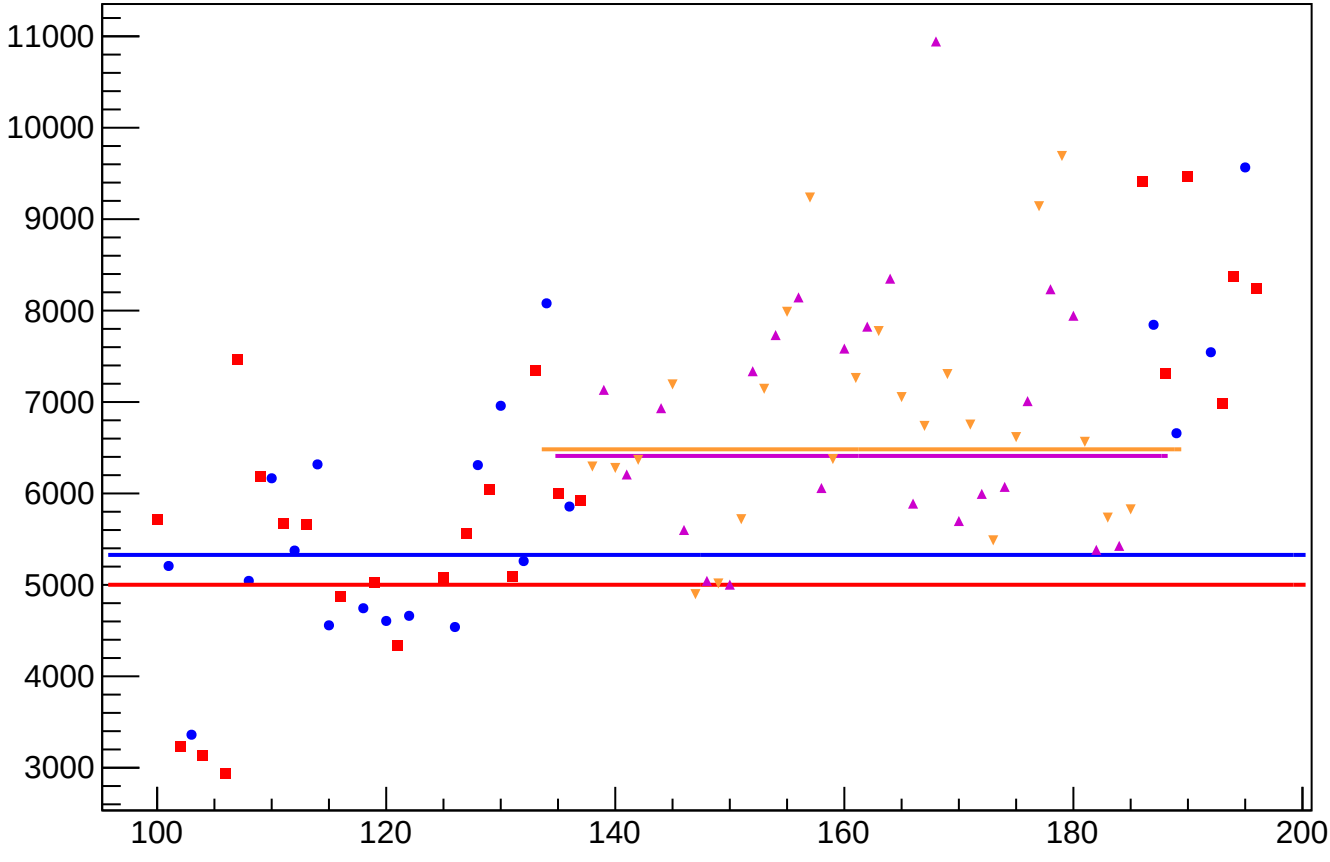
In: 1874.789+/-0.251 $\chi^2$/NDF:309487.4/42

Out: 1880.408+/-0.244 $\chi^2$/NDF:197552.4/47

All: 1877.678+/-0.175 $\chi^2$/NDF: 507298.1/90


asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -1186.551+/-1769.144 χ²/NDF: 19.1/19
Left Out: -520.268+/-1536.787 χ²/NDF:29.2/23
Right Out: -1158.681+/-1566.229 χ²/NDF: 25.3/23
Left In: -324.626+/-1527.998 χ²/NDF:13.4/22
Left: -421.886+/-1083.552 χ²/NDF: 42.6/46
Right: -1170.927+/-1172.700 χ²/NDF: 44.4/43
In: -692.885+/-1156.391 χ²/NDF:32.7/42
Out: -833.418+/-1096.934 χ²/NDF:54.6/47
All: -766.857+/-795.839 χ²/NDF: 87.2/90

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 5327.853+/-1.251 $\chi^2$/NDF: 1288998.4/19

Left Out: 6482.740+/-1.087 $\chi^2$/NDF:1074587.3/23

Right Out: 5001.282+/-1.107 $\chi^2$/NDF: 2558709.1/23

Left In: 6410.429+/-1.080 $\chi^2$/NDF:1219833.0/22

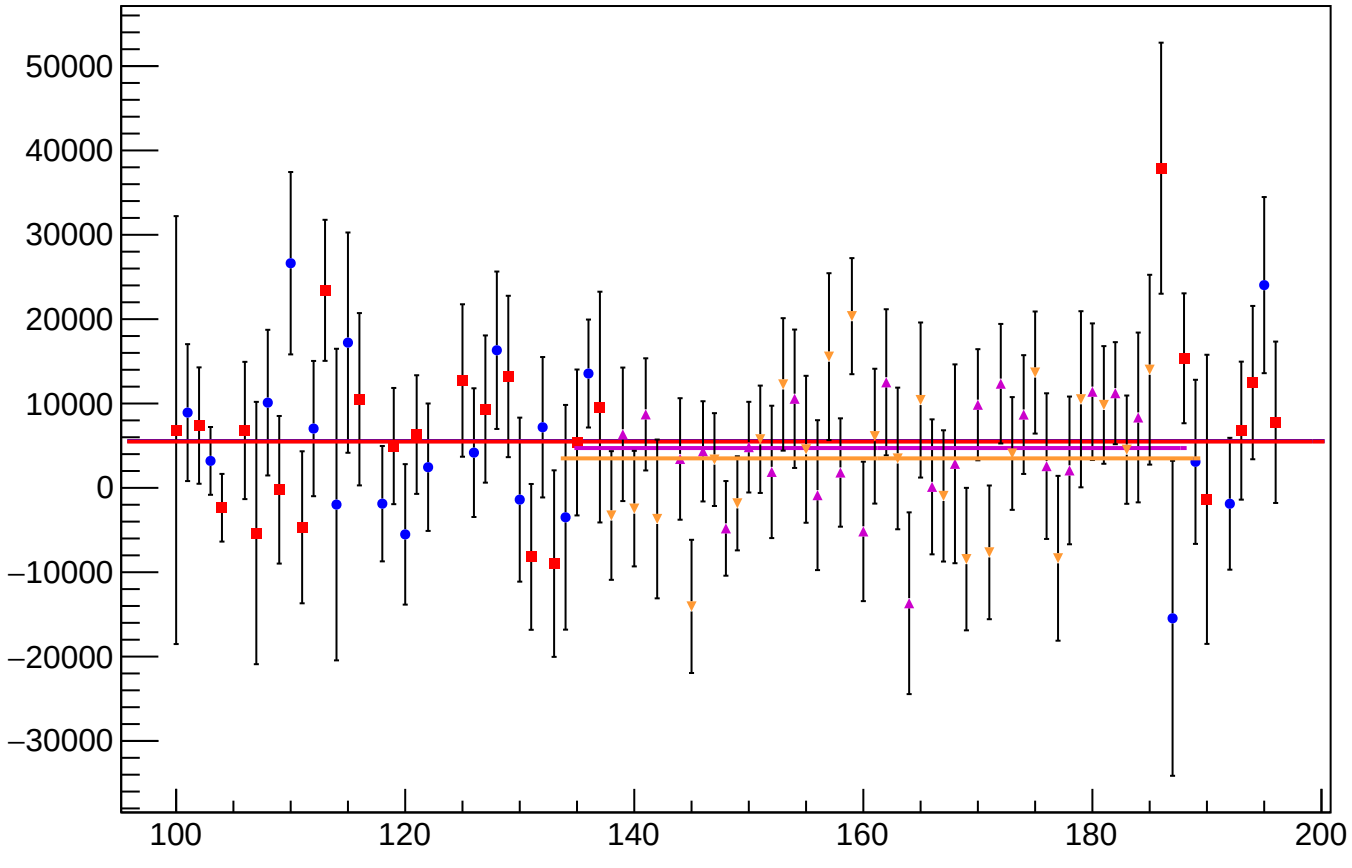
Left: 6446.377+/-0.766 $\chi^2$/NDF: 2296647.1/46

Right: 5144.773+/-0.829 $\chi^2$/NDF: 3885912.6/43

In: 5947.897+/-0.818 $\chi^2$/NDF:2937759.8/42

Out: 5756.067+/-0.776 $\chi^2$/NDF:4544953.9/47

All: 5846.924+/-0.563 $\chi^2$/NDF: 7511683.6/90




Right In: 5549.688+/-1827.254 $\chi^2$/NDF: 18.0/19

Left Out: 3497.162+/-1545.839 $\chi^2$/NDF:27.5/23

Right Out: 5492.274+/-1730.658 $\chi^2$/NDF: 24.0/23

Left In: 4719.535+/-1539.177 $\chi^2$/NDF:14.3/22

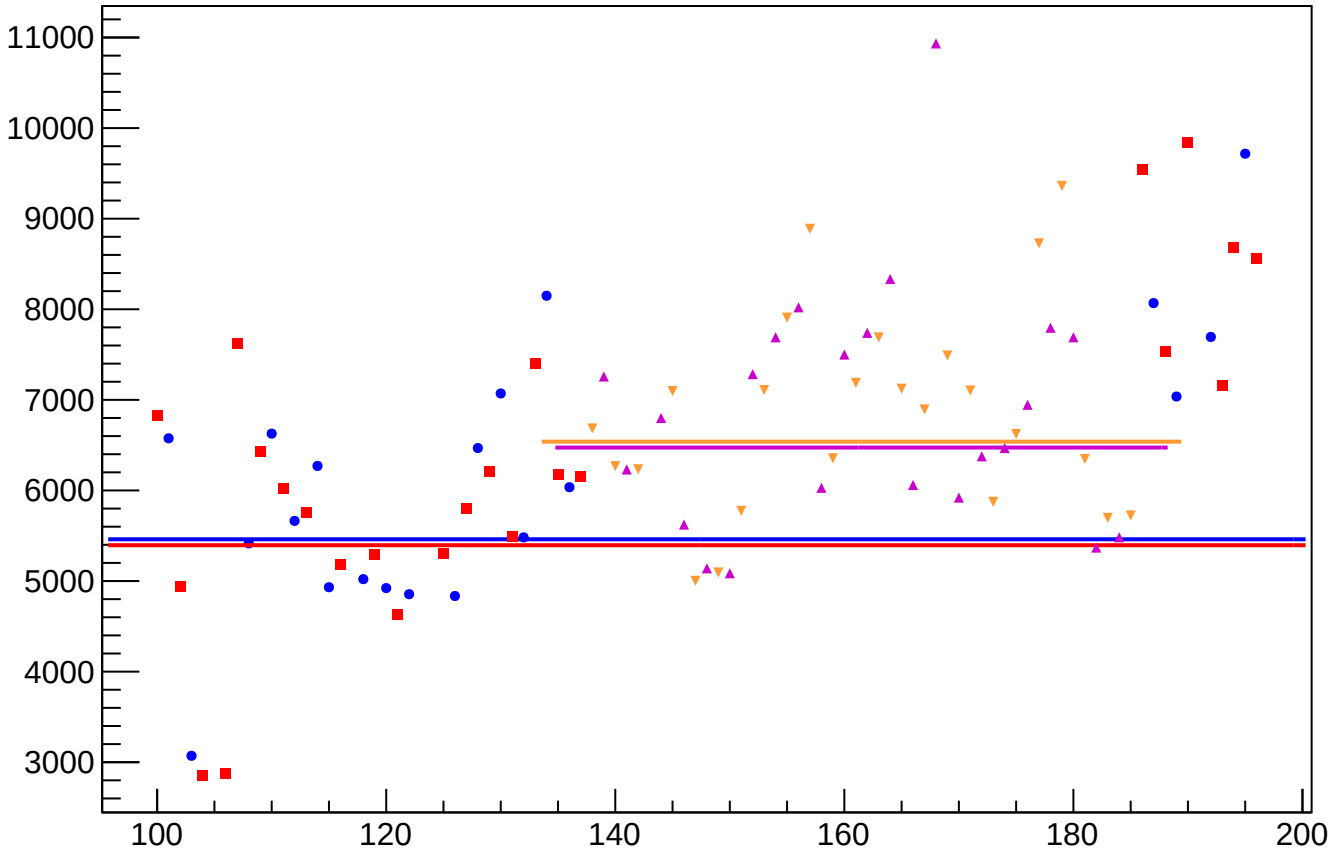
Left: 4110.988+/-1090.710 $\chi^2$/NDF: 42.1/46

Right: 5519.423+/-1256.521 $\chi^2$/NDF: 42.0/43

In: 5064.089+/-1177.195 $\chi^2$/NDF:32.4/42

Out: 4382.536+/-1152.898 $\chi^2$/NDF:52.2/47

All: 4716.206+/-823.678 $\chi^2$/NDF: 84.8/90




Right In: 5461.047+/-1.292 $\chi^2$/NDF: 1582830.8/19

Left Out: 6538.706+/-1.093 $\chi^2$/NDF:920612.0/23

Right Out: 5395.406+/-1.204 $\chi^2$/NDF: 2385638.9/23

Left In: 6473.481+/-1.088 $\chi^2$/NDF:1071757.3/22

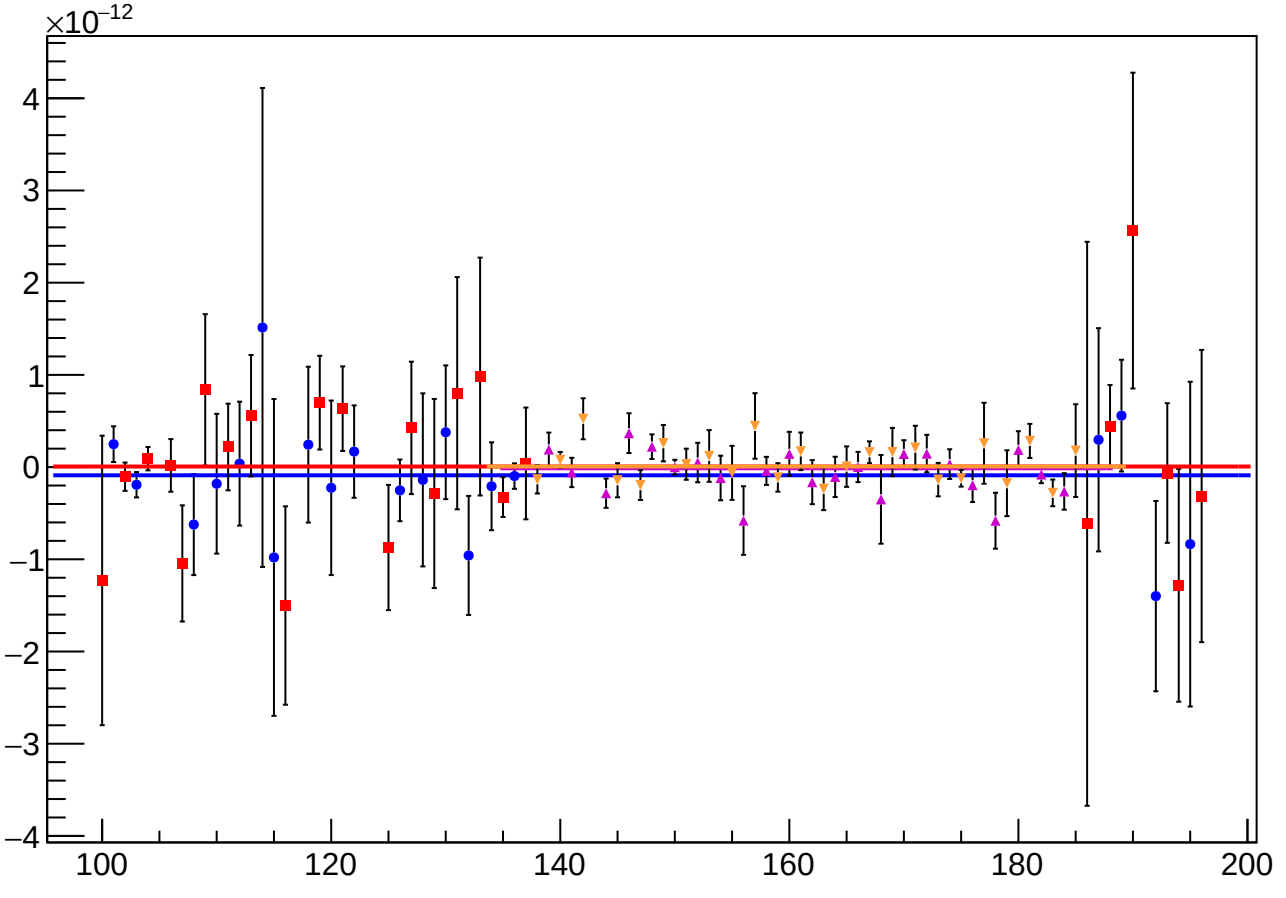
Left: 6505.953+/-0.771 $\chi^2$/NDF: 1994157.3/46

Right: 5425.904+/-0.881 $\chi^2$/NDF: 3969851.6/43

In: 6053.264+/-0.832 $\chi^2$/NDF:3013751.8/42

Out: 6021.966+/-0.809 $\chi^2$/NDF:3800715.1/47

All: 6037.173+/-0.580 $\chi^2$/NDF: 6815193.7/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 11.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.7/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.0/22

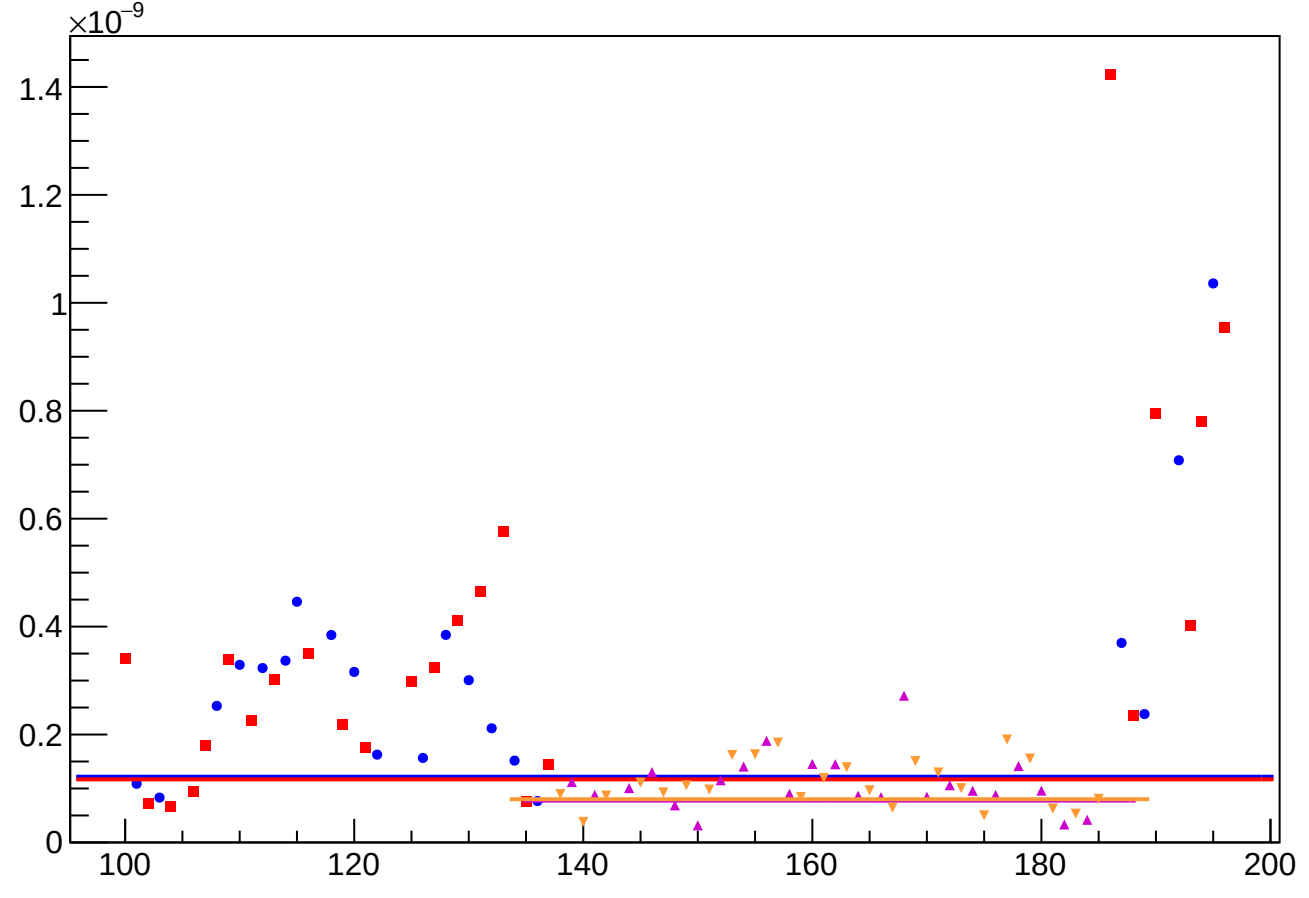
Left: -0.000+/-0.000 $\chi^2$/NDF: 51.3/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 33.7/43

In: -0.000+/-0.000 $\chi^2$/NDF:36.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:48.8/47

All: -0.000+/-0.000 $\chi^2$/NDF: 85.4/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2888598.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2153227.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4352192.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2642331.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4801129.7/46

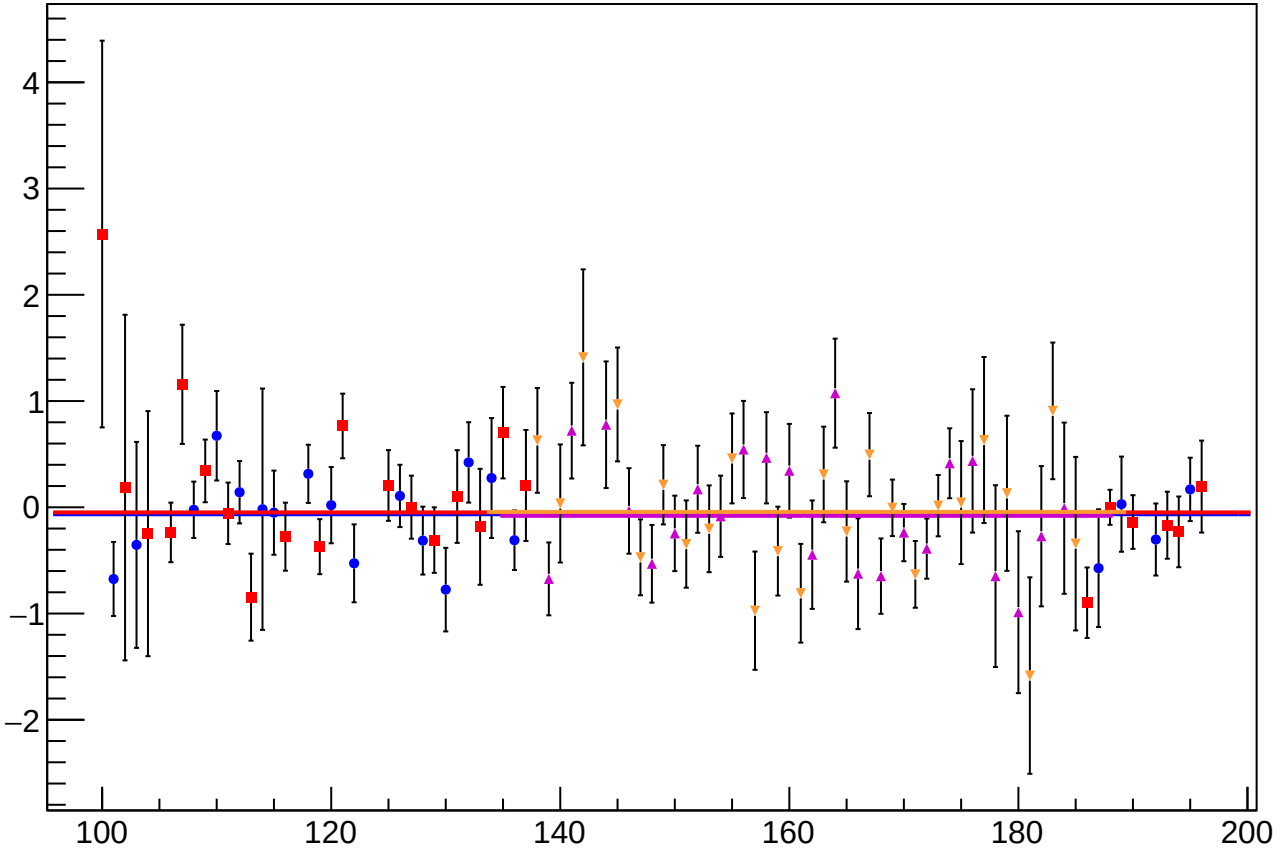
Right: 0.000+/-0.000 $\chi^2$/NDF: 7244920.7/43

In: 0.000+/-0.000 $\chi^2$/NDF:6085205.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6897650.8/47

All: 0.000+/-0.000 $\chi^2$/NDF: 12985761.7/90

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.080 $\chi^2$/NDF: 19.3/19

Left Out: -0.043+/-0.090 $\chi^2$/NDF:31.0/23

Right Out: -0.048+/-0.068 $\chi^2$/NDF: 34.3/23

Left In: -0.080+/-0.088 $\chi^2$/NDF:30.3/22

Left: -0.062+/-0.063 $\chi^2$/NDF: 61.4/46

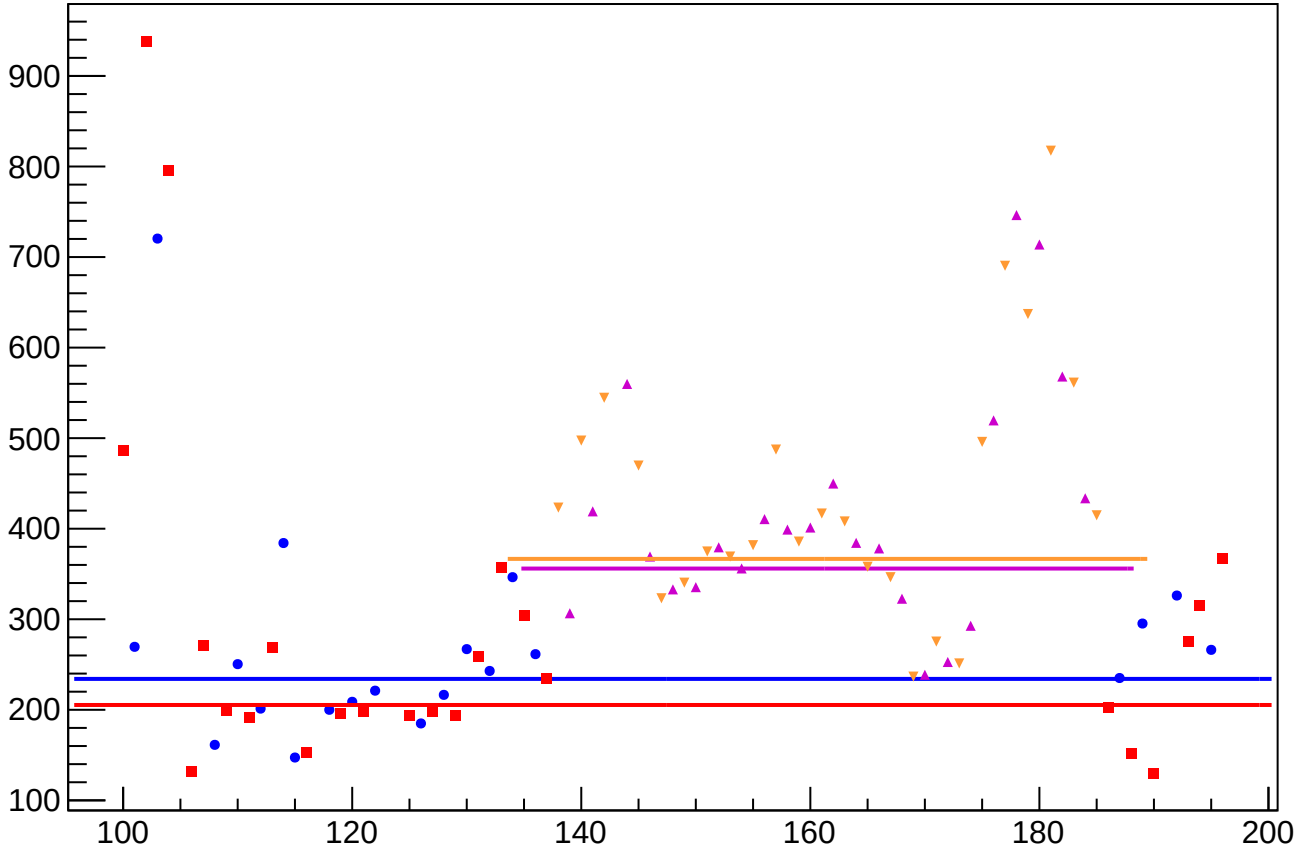
Right: -0.055+/-0.052 $\chi^2$/NDF: 53.6/43

In: -0.072+/-0.059 $\chi^2$/NDF:49.6/42

Out: -0.046+/-0.054 $\chi^2$/NDF:65.3/47

All: -0.058+/-0.040 $\chi^2$/NDF: 115.0/90

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 234.128+/-0.057 $\chi^2$/NDF: 1260844.1/19

Left Out: 366.670+/-0.064 $\chi^2$/NDF:2841071.8/23

Right Out: 205.330+/-0.048 $\chi^2$/NDF: 2538880.9/23

Left In: 355.992+/-0.062 $\chi^2$/NDF:2420701.1/22

Left: 361.170+/-0.045 $\chi^2$/NDF: 5276130.6/46

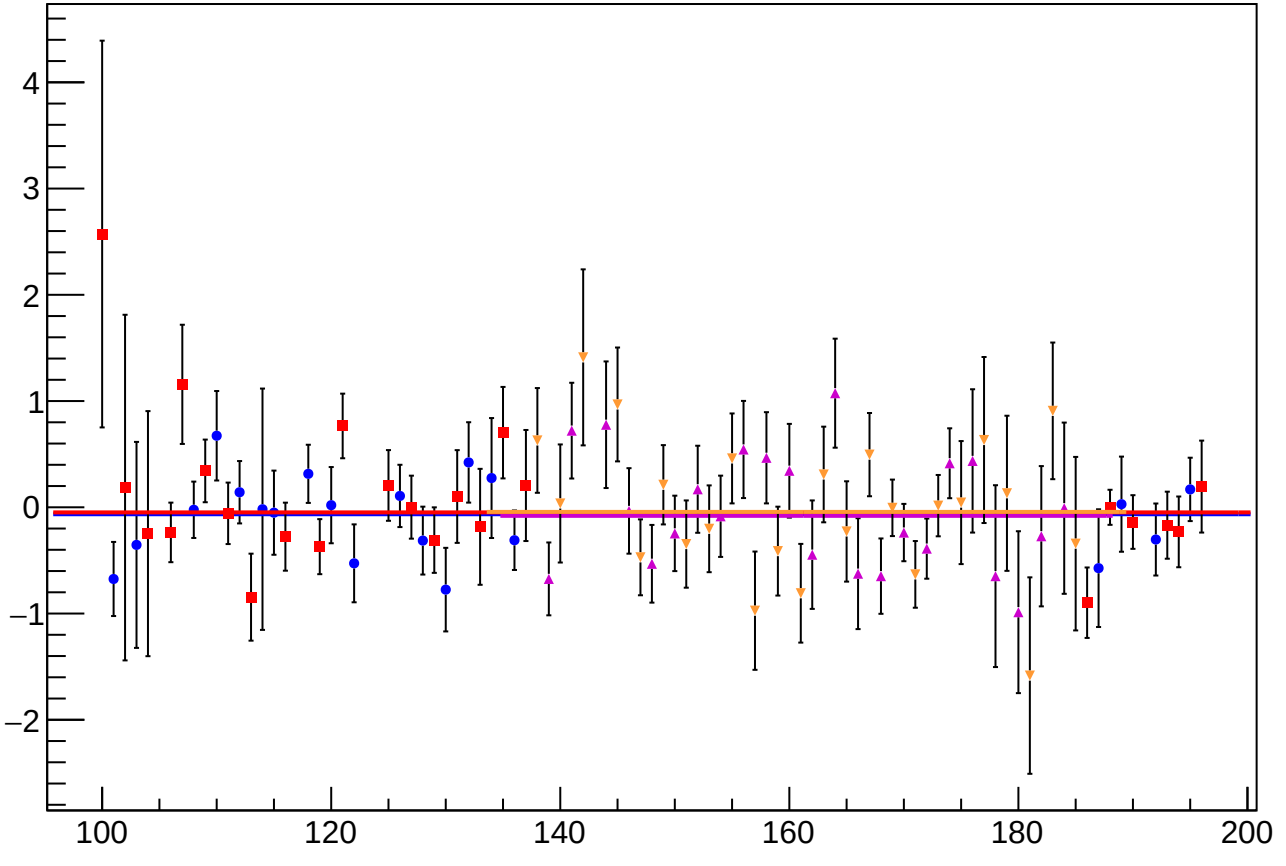
Right: 217.356+/-0.037 $\chi^2$/NDF: 3949865.0/43

In: 289.591+/-0.042 $\chi^2$/NDF:5782454.7/42

Out: 263.502+/-0.038 $\chi^2$/NDF:9448526.1/47

All: 275.424+/-0.028 $\chi^2$/NDF: 15441830.5/90

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.080 $\chi^2$/NDF: 19.3/19

Left Out: -0.043+/-0.090 $\chi^2$/NDF:31.0/23

Right Out: -0.048+/-0.068 $\chi^2$/NDF: 34.3/23

Left In: -0.080+/-0.088 $\chi^2$/NDF:30.3/22

Left: -0.062+/-0.063 $\chi^2$/NDF: 61.4/46

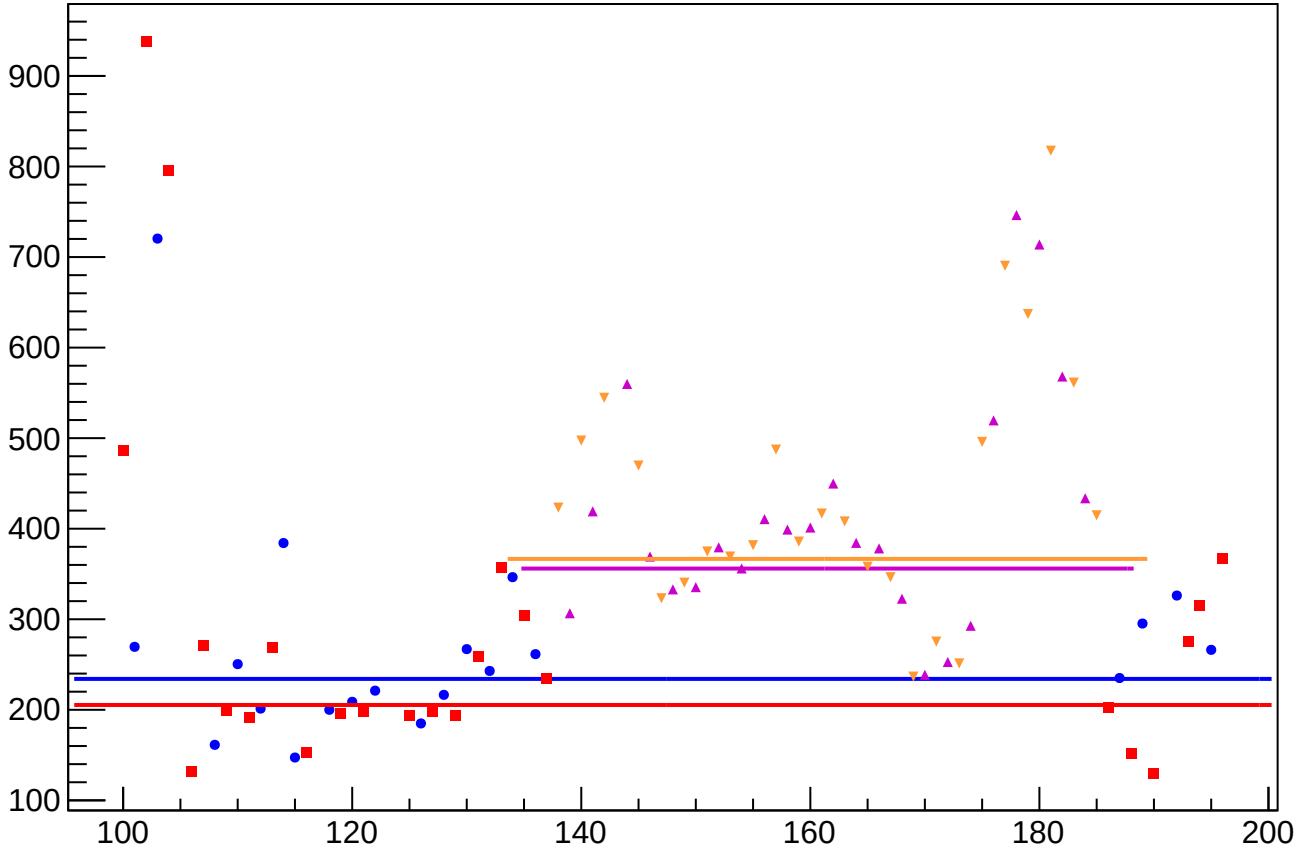
Right: -0.055+/-0.052 $\chi^2$/NDF: 53.6/43

In: -0.072+/-0.059 $\chi^2$/NDF:49.6/42

Out: -0.046+/-0.054 $\chi^2$/NDF:65.3/47

All: -0.058+/-0.040 $\chi^2$/NDF: 115.0/90

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 234.128+/-0.057 $\chi^2$/NDF: 1260844.1/19

Left Out: 366.670+/-0.064 $\chi^2$/NDF:2841071.8/23

Right Out: 205.330+/-0.048 $\chi^2$/NDF: 2538880.9/23

Left In: 355.992+/-0.062 $\chi^2$/NDF:2420701.1/22

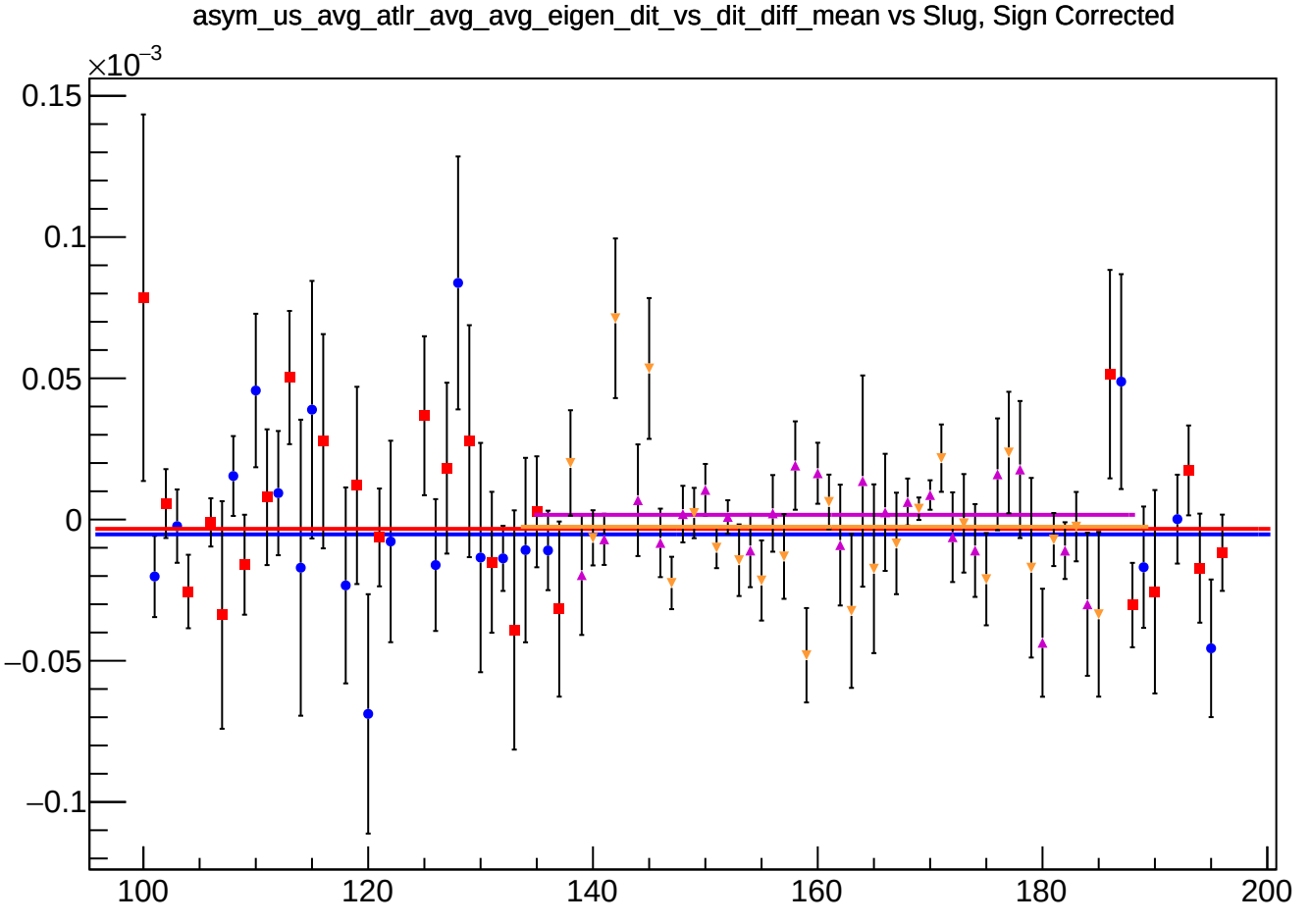
Left: 361.170+/-0.045 $\chi^2$/NDF: 5276130.6/46

Right: 217.356+/-0.037 $\chi^2$/NDF: 3949865.0/43

In: 289.591+/-0.042 $\chi^2$/NDF:5782454.7/42

Out: 263.502+/-0.038 $\chi^2$/NDF:9448526.1/47

All: 275.424+/-0.028 $\chi^2$/NDF: 15441830.5/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:43.5/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.9/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.7/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 65.9/46

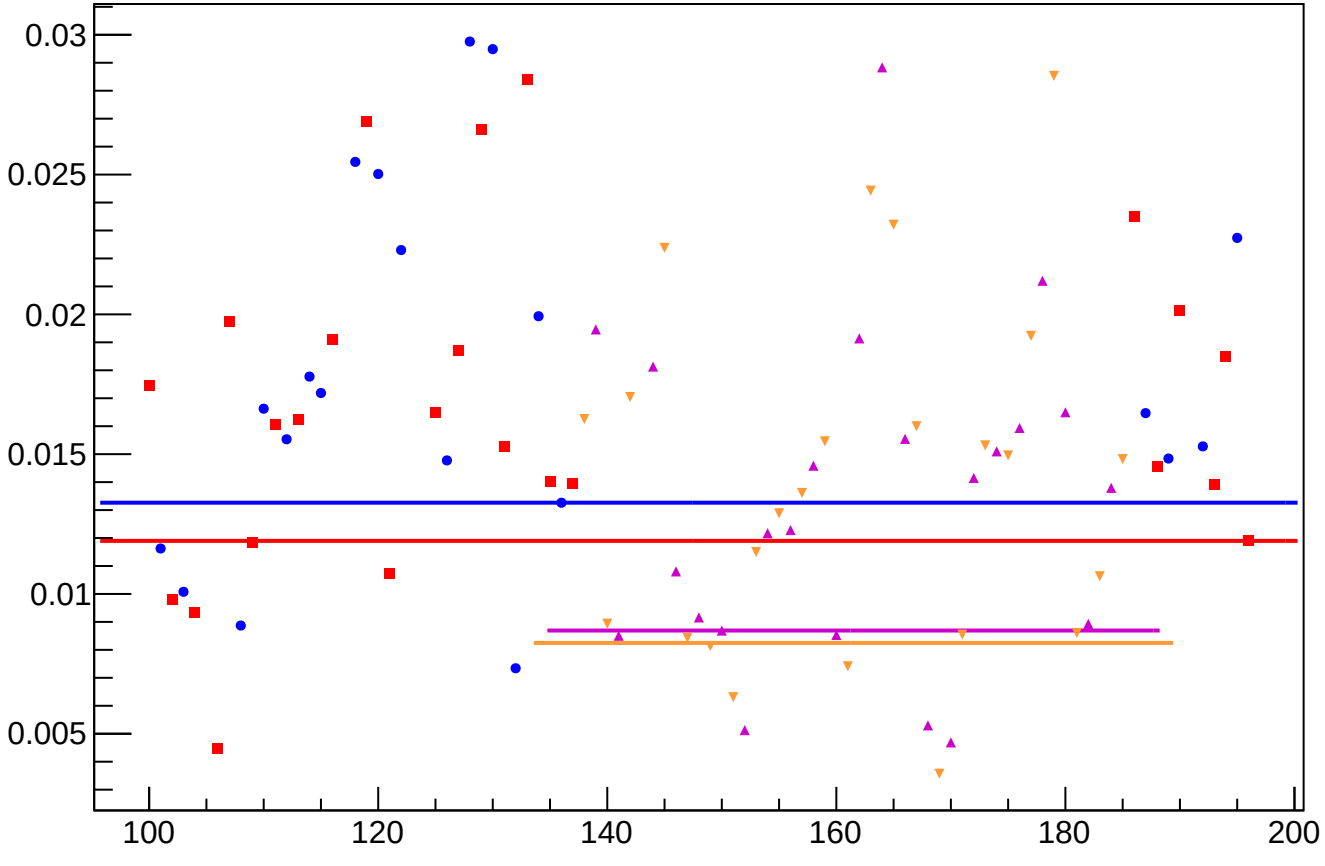
Right: -0.000+/-0.000 $\chi^2$/NDF: 46.8/43

In: 0.000+/-0.000 $\chi^2$/NDF:43.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:69.4/47

All: -0.000+/-0.000 $\chi^2$/NDF: 113.8/90

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 2520524.0/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:8879581.2/23

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 3735671.0/23

Left In: 0.009+/-0.000 $\chi^2$/NDF:6875072.4/22

Left: 0.008+/-0.000 $\chi^2$/NDF: 15791427.0/46

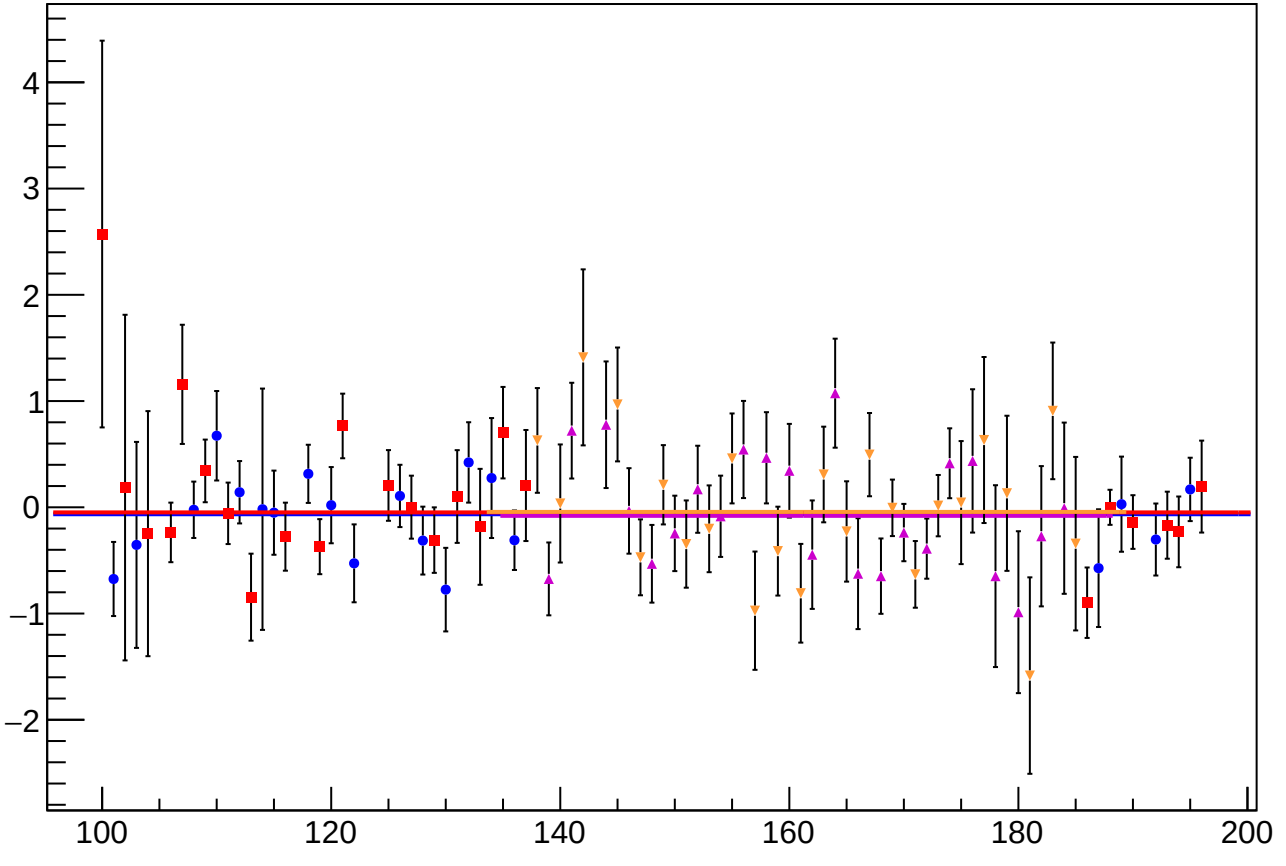
Right: 0.012+/-0.000 $\chi^2$/NDF: 6358802.9/43

In: 0.010+/-0.000 $\chi^2$/NDF:10962055.4/42

Out: 0.009+/-0.000 $\chi^2$/NDF:13922723.6/47

All: 0.009+/-0.000 $\chi^2$/NDF: 24938548.1/90

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.080 $\chi^2$/NDF: 19.3/19

Left Out: -0.043+/-0.090 $\chi^2$/NDF:31.0/23

Right Out: -0.048+/-0.068 $\chi^2$/NDF: 34.3/23

Left In: -0.080+/-0.088 $\chi^2$/NDF:30.3/22

Left: -0.062+/-0.063 $\chi^2$/NDF: 61.4/46

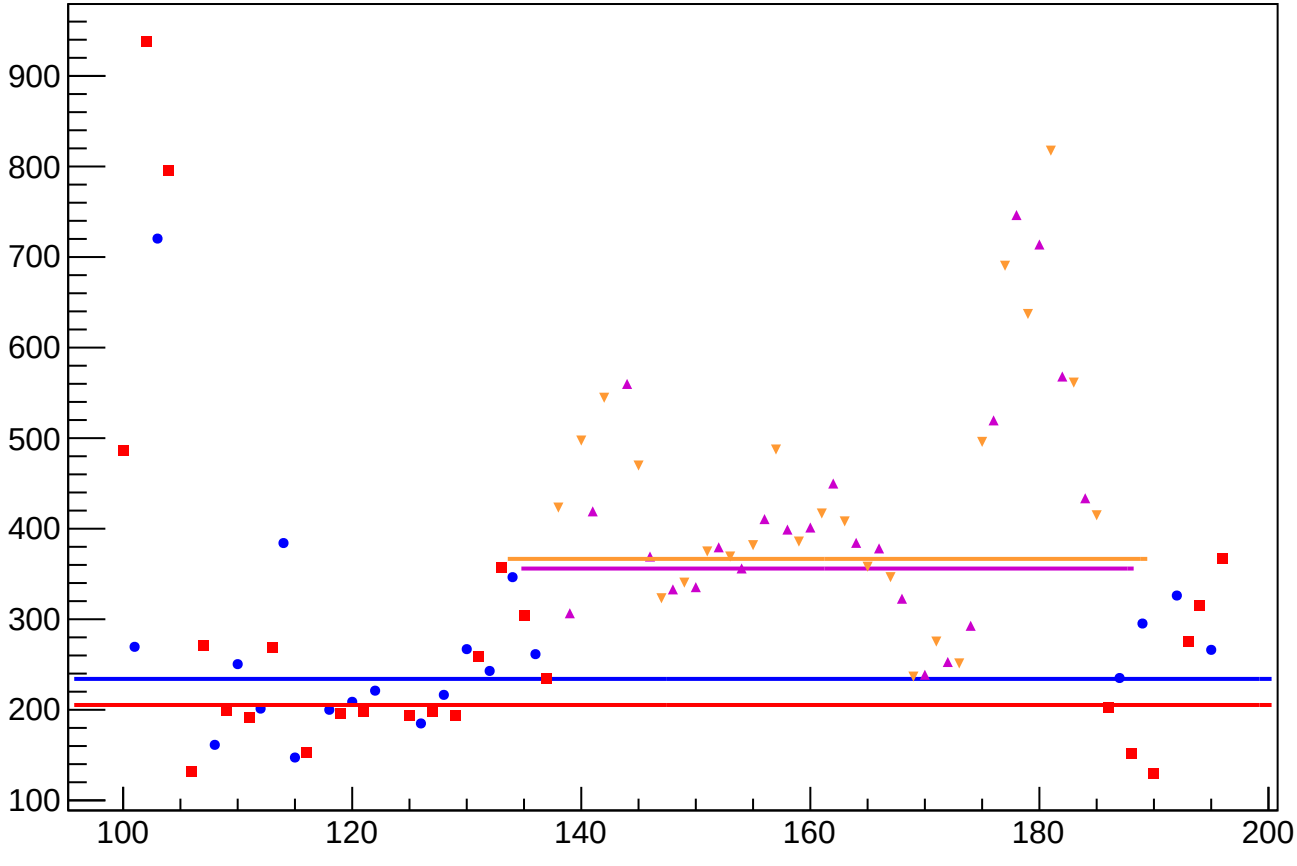
Right: -0.055+/-0.052 $\chi^2$/NDF: 53.6/43

In: -0.072+/-0.059 $\chi^2$/NDF:49.6/42

Out: -0.046+/-0.054 $\chi^2$/NDF:65.3/47

All: -0.058+/-0.040 $\chi^2$/NDF: 115.0/90

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 234.127+/-0.057 $\chi^2$/NDF: 1260829.6/19

Left Out: 366.671+/-0.064 $\chi^2$/NDF:2841292.6/23

Right Out: 205.326+/-0.048 $\chi^2$/NDF: 2538893.9/23

Left In: 355.993+/-0.062 $\chi^2$/NDF:2420863.3/22

Left: 361.171+/-0.045 $\chi^2$/NDF: 5276510.3/46

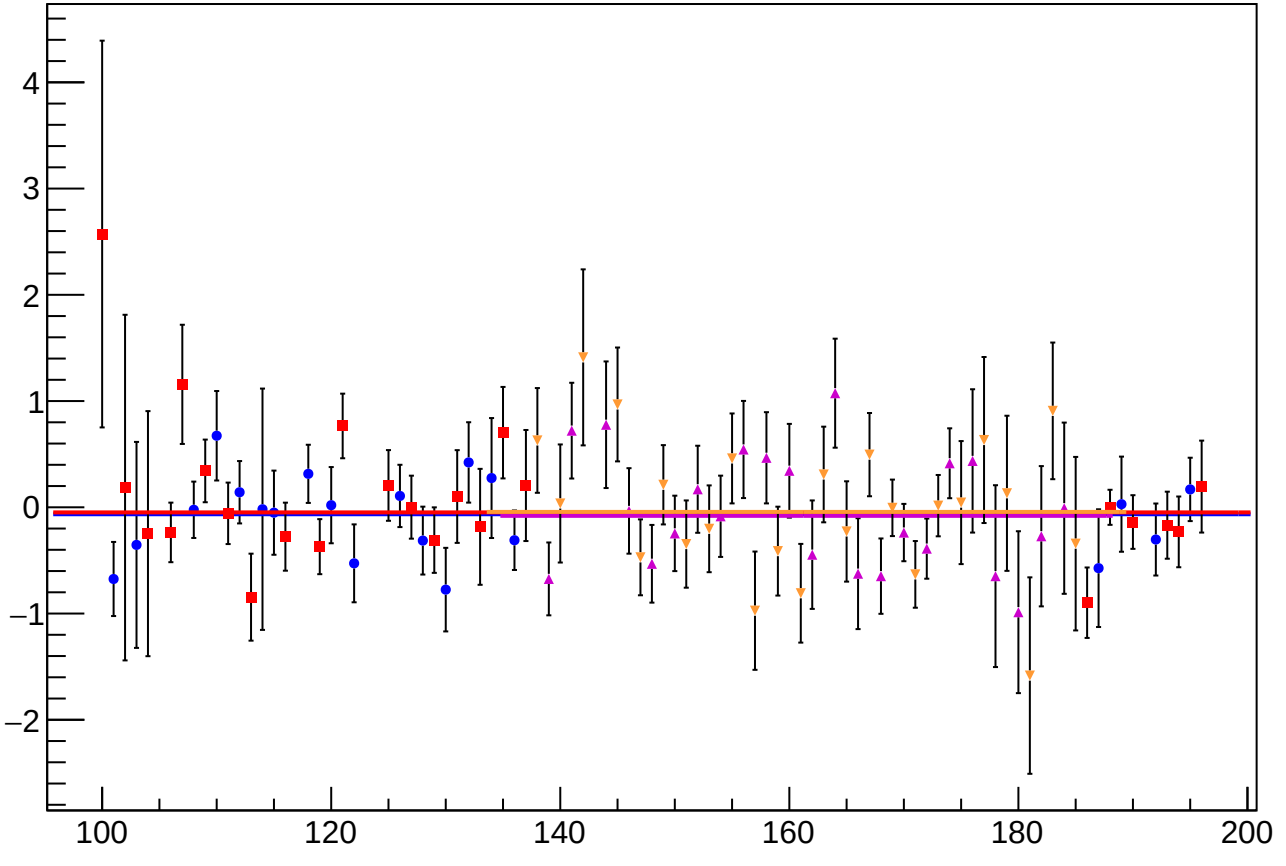
Right: 217.354+/-0.037 $\chi^2$/NDF: 3949883.8/43

In: 289.590+/-0.042 $\chi^2$/NDF:5782710.5/42

Out: 263.499+/-0.038 $\chi^2$/NDF:9448963.1/47

All: 275.422+/-0.028 $\chi^2$/NDF: 15442561.4/90

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.065+/-0.080 $\chi^2$/NDF: 19.3/19

Left Out: -0.043+/-0.090 $\chi^2$/NDF:31.0/23

Right Out: -0.048+/-0.068 $\chi^2$/NDF: 34.3/23

Left In: -0.080+/-0.088 $\chi^2$/NDF:30.3/22

Left: -0.062+/-0.063 $\chi^2$/NDF: 61.4/46

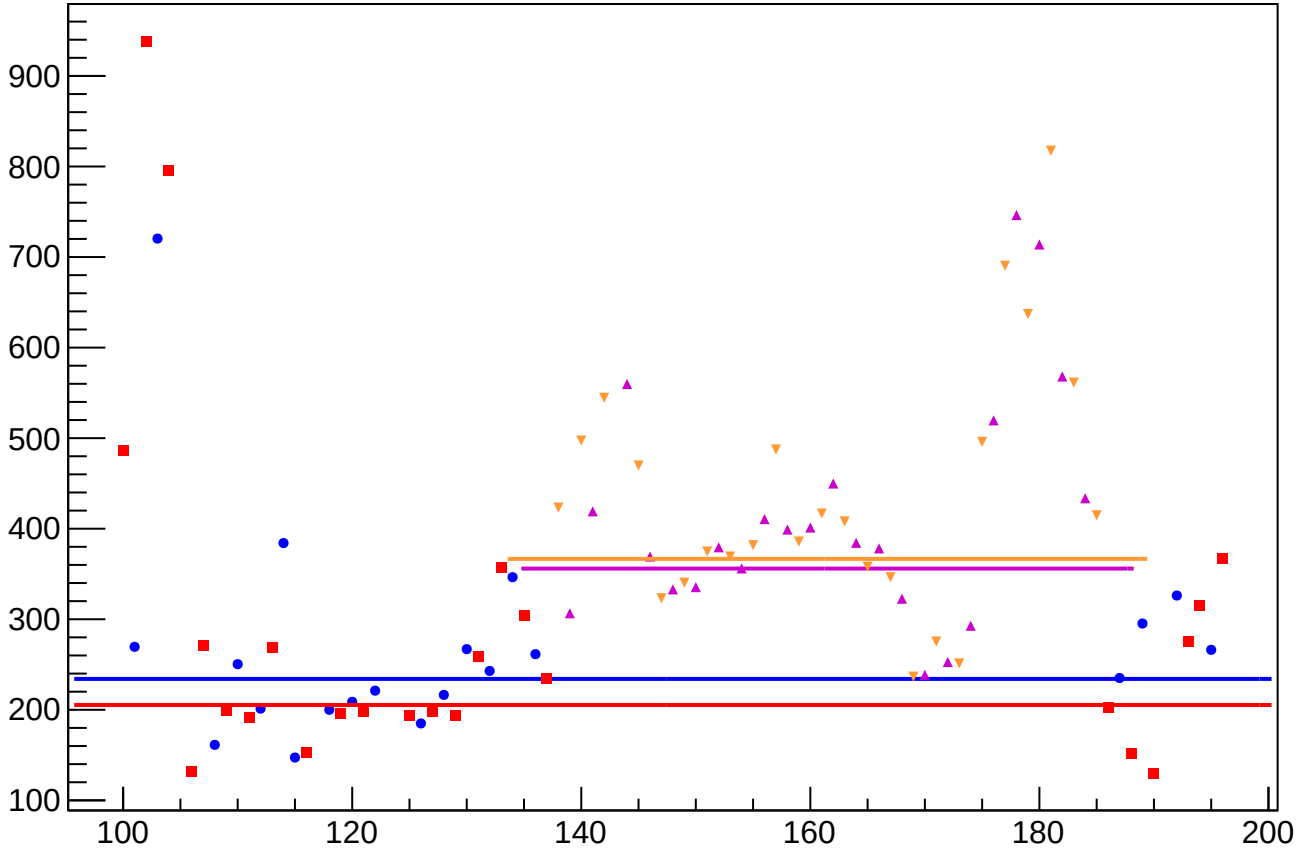
Right: -0.055+/-0.052 $\chi^2$/NDF: 53.6/43

In: -0.072+/-0.059 $\chi^2$/NDF:49.6/42

Out: -0.046+/-0.054 $\chi^2$/NDF:65.3/47

All: -0.058+/-0.040 $\chi^2$/NDF: 115.0/90

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 234.127+/-0.057 $\chi^2$/NDF: 1260829.6/19

Left Out: 366.671+/-0.064 $\chi^2$/NDF:2841292.6/23

Right Out: 205.326+/-0.048 $\chi^2$/NDF: 2538893.9/23

Left In: 355.993+/-0.062 $\chi^2$/NDF:2420863.3/22

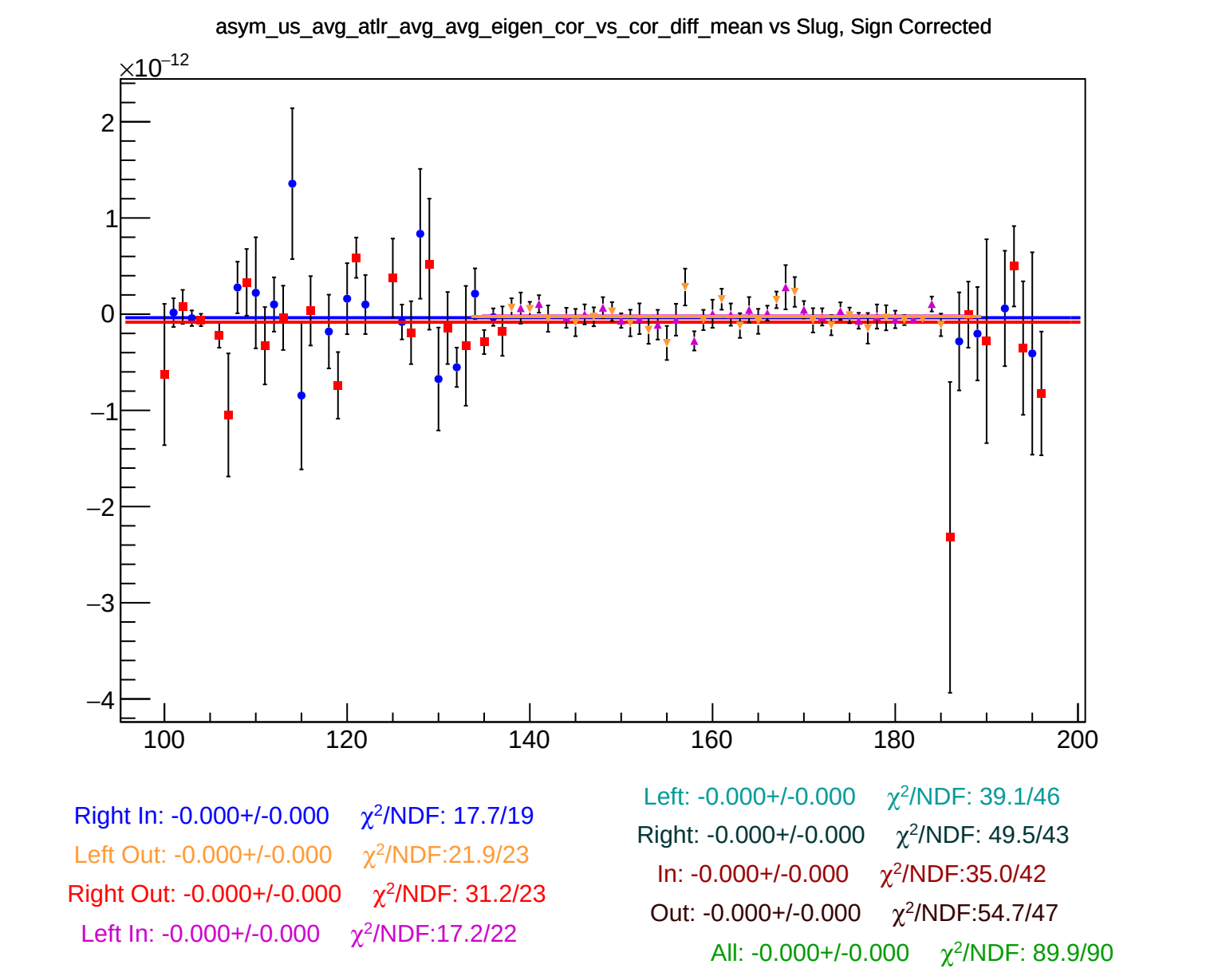
Left: 361.171+/-0.045 $\chi^2$/NDF: 5276510.3/46

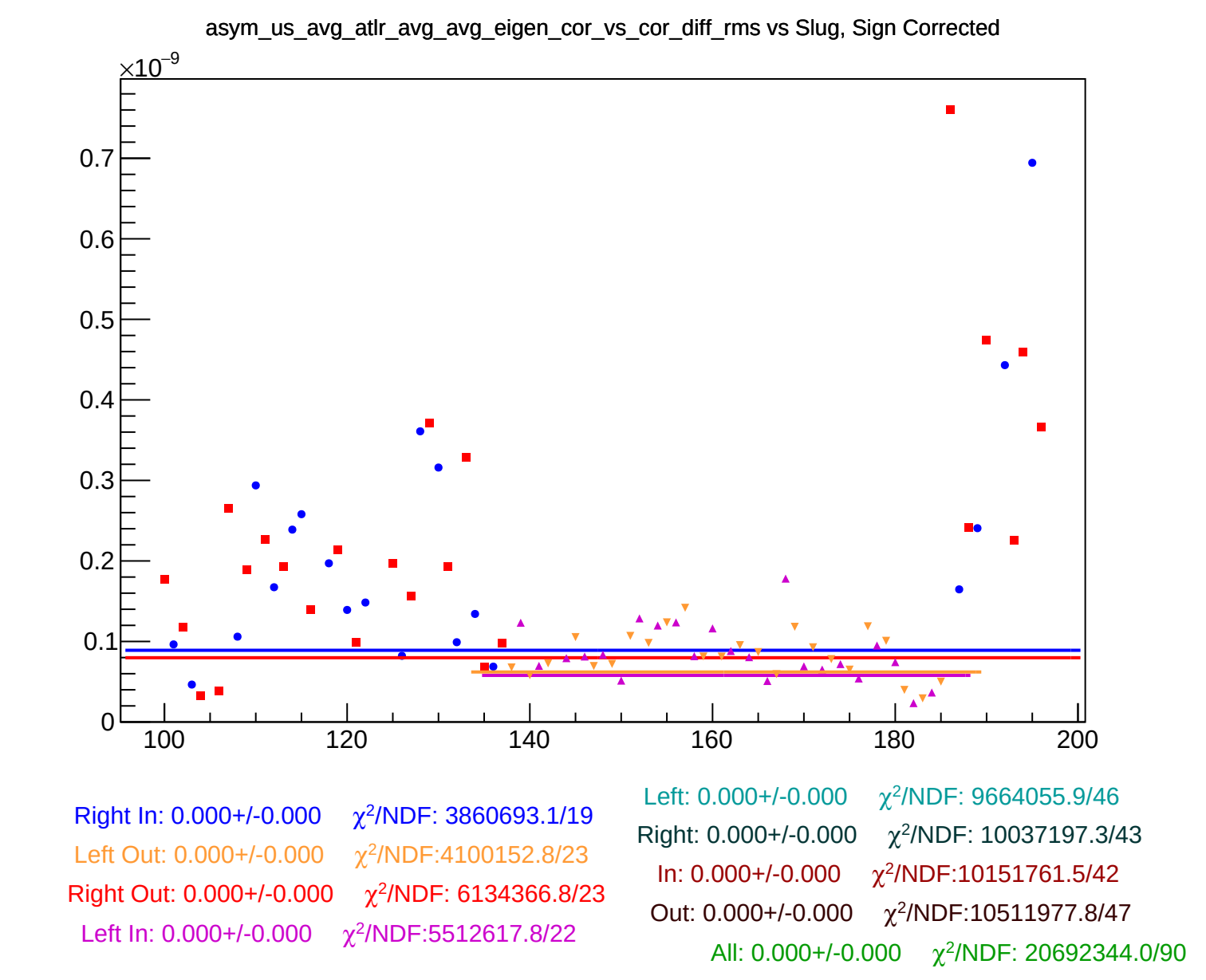
Right: 217.354+/-0.037 $\chi^2$/NDF: 3949883.8/43

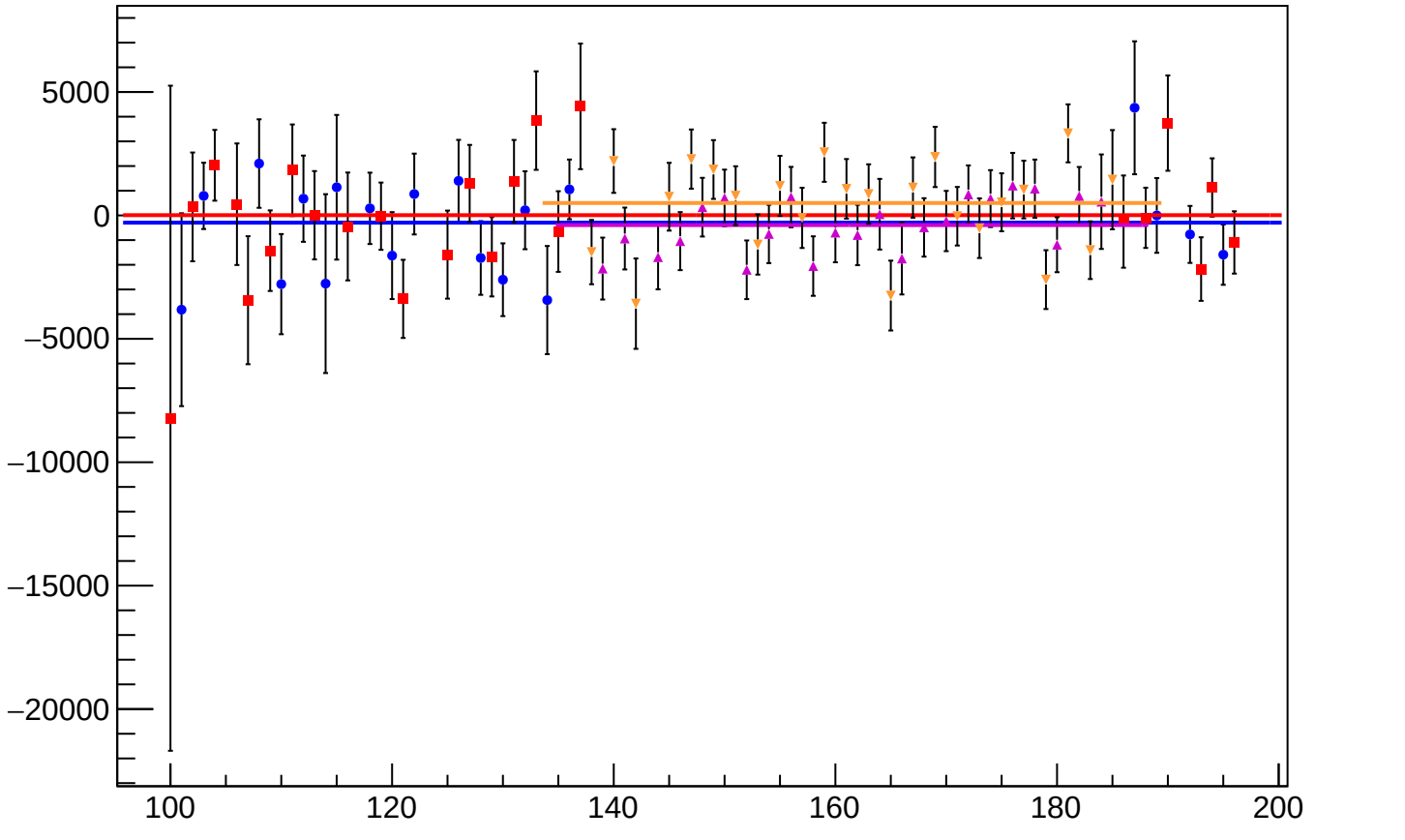
In: 289.590+/-0.042 $\chi^2$/NDF:5782710.5/42

Out: 263.499+/-0.038 $\chi^2$/NDF:9448963.1/47

All: 275.422+/-0.028 $\chi^2$/NDF: 15442561.4/90


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 17.7/19
Left Out: -0.000+/-0.000 χ²/NDF:21.9/23
Right Out: -0.000+/-0.000 χ²/NDF: 31.2/23
Left In: -0.000+/-0.000 χ²/NDF:17.2/22
Left: -0.000+/-0.000 χ²/NDF: 39.1/46
Right: -0.000+/-0.000 χ²/NDF: 49.5/43
In: -0.000+/-0.000 χ²/NDF:35.0/42
Out: -0.000+/-0.000 χ²/NDF:54.7/47
All: -0.000+/-0.000 χ²/NDF: 89.9/90


asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3860693.1/19
Left Out: 0.000+/-0.000 χ²/NDF:4100152.8/23
Right Out: 0.000+/-0.000 χ²/NDF: 6134366.8/23
Left In: 0.000+/-0.000 χ²/NDF:5512617.8/22
Left: 0.000+/-0.000 χ²/NDF: 9664055.9/46
Right: 0.000+/-0.000 χ²/NDF: 10037197.3/43
In: 0.000+/-0.000 χ²/NDF:10151761.5/42
Out: 0.000+/-0.000 χ²/NDF:10511977.8/47
All: 0.000+/-0.000 χ²/NDF: 20692344.0/90




Right In: -292.842+/-367.005 $\chi^2$/NDF: 19.1/19

Left Out: 503.606+/-255.531 $\chi^2$/NDF:44.6/23

Right Out: 9.887+/-341.782 $\chi^2$/NDF: 29.0/23

Left In: -391.701+/-257.386 $\chi^2$/NDF:17.8/22

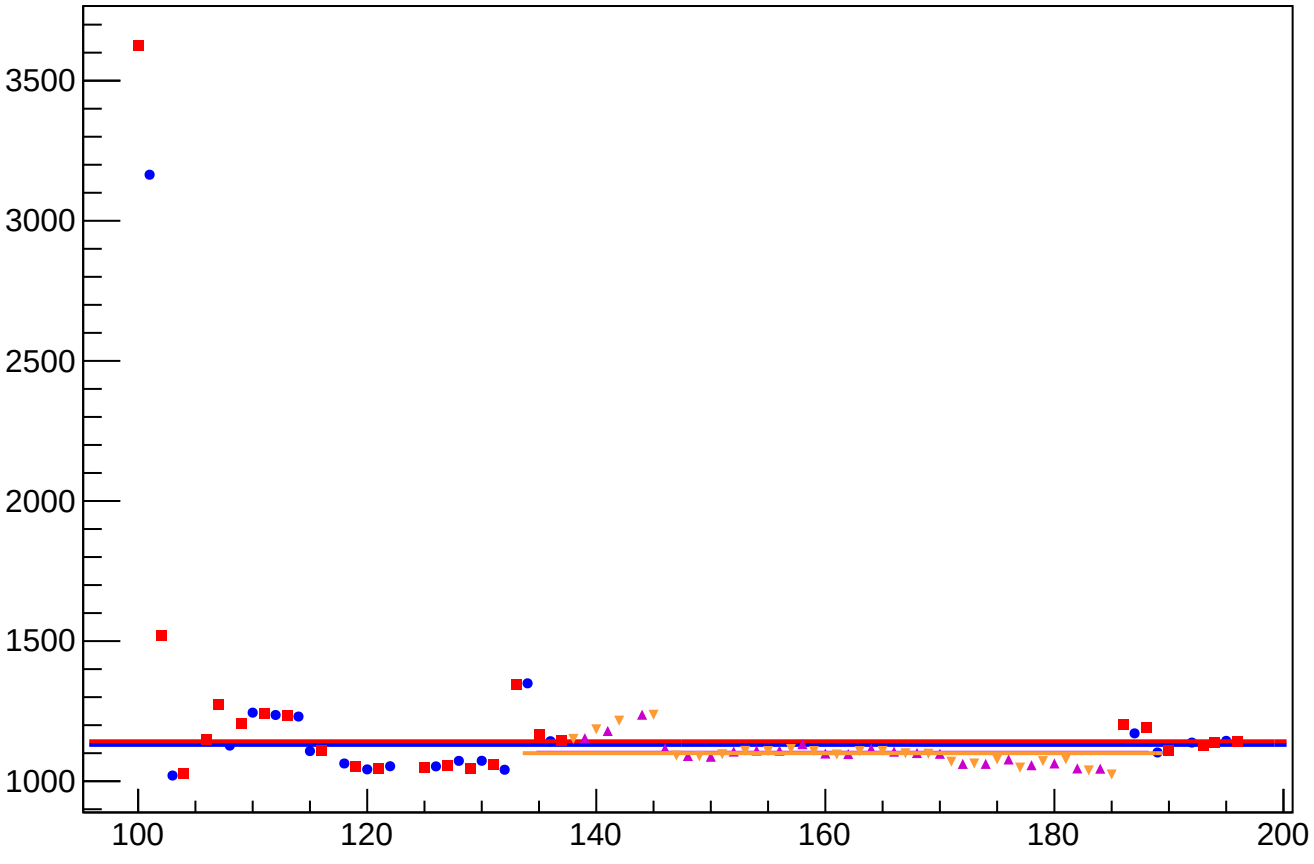
Left: 59.191+/-181.340 $\chi^2$/NDF: 68.5/46

Right: -130.718+/-250.118 $\chi^2$/NDF: 48.5/43

In: -359.109+/-210.729 $\chi^2$/NDF:37.0/42

Out: 326.582+/-204.656 $\chi^2$/NDF:74.9/47

All: -6.241+/-146.814 $\chi^2$/NDF: 117.3/90




Right In: 1129.741+/-0.260 $\chi^2$/NDF: 622908.3/19

Left Out: 1100.063+/-0.181 $\chi^2$/NDF:58733.9/23

Right Out: 1142.433+/-0.241 $\chi^2$/NDF: 226666.6/23

Left In: 1101.530+/-0.182 $\chi^2$/NDF:52145.9/22

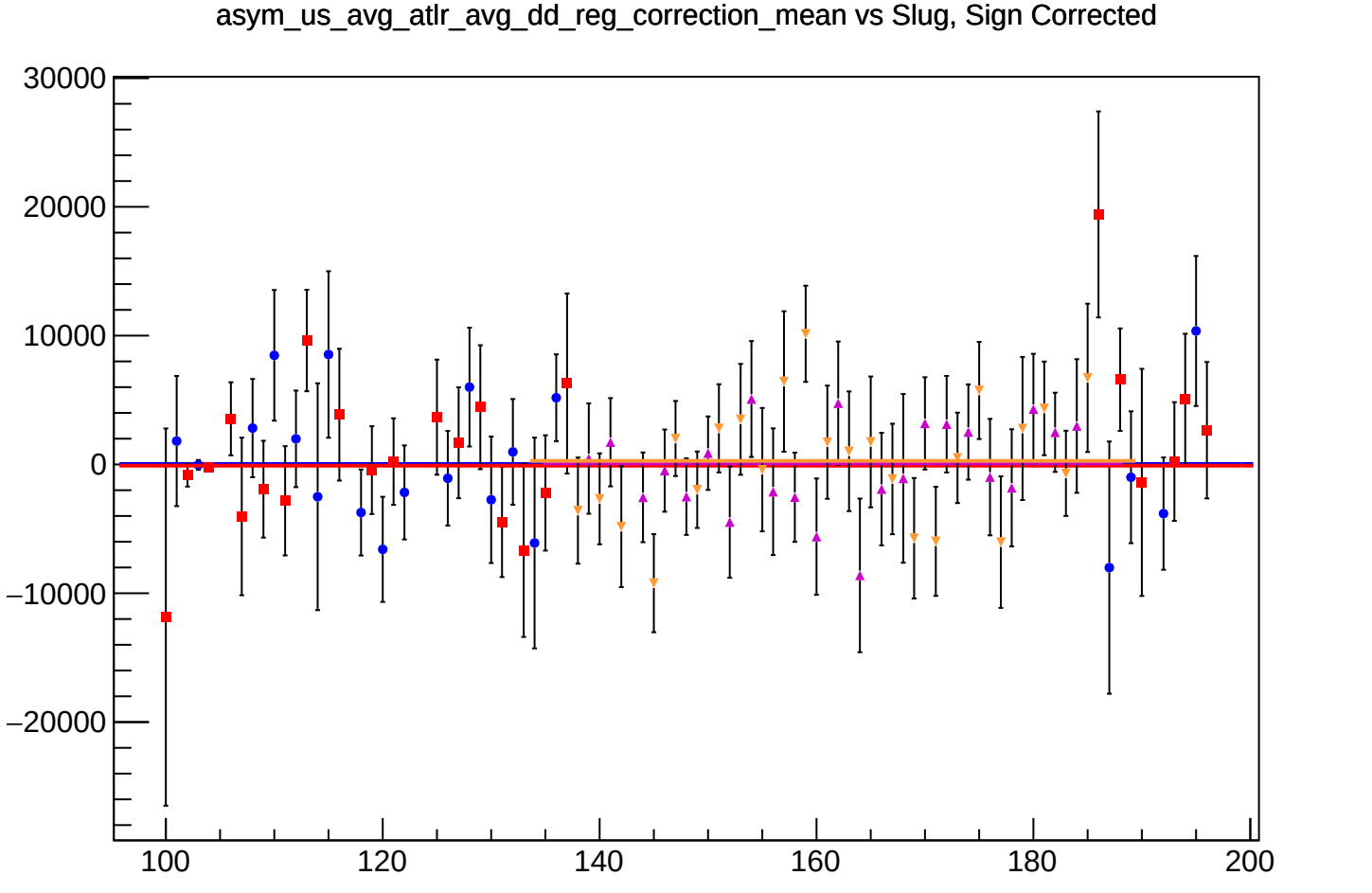
Left: 1100.791+/-0.128 $\chi^2$/NDF: 110912.5/46

Right: 1136.545+/-0.177 $\chi^2$/NDF: 850857.1/43

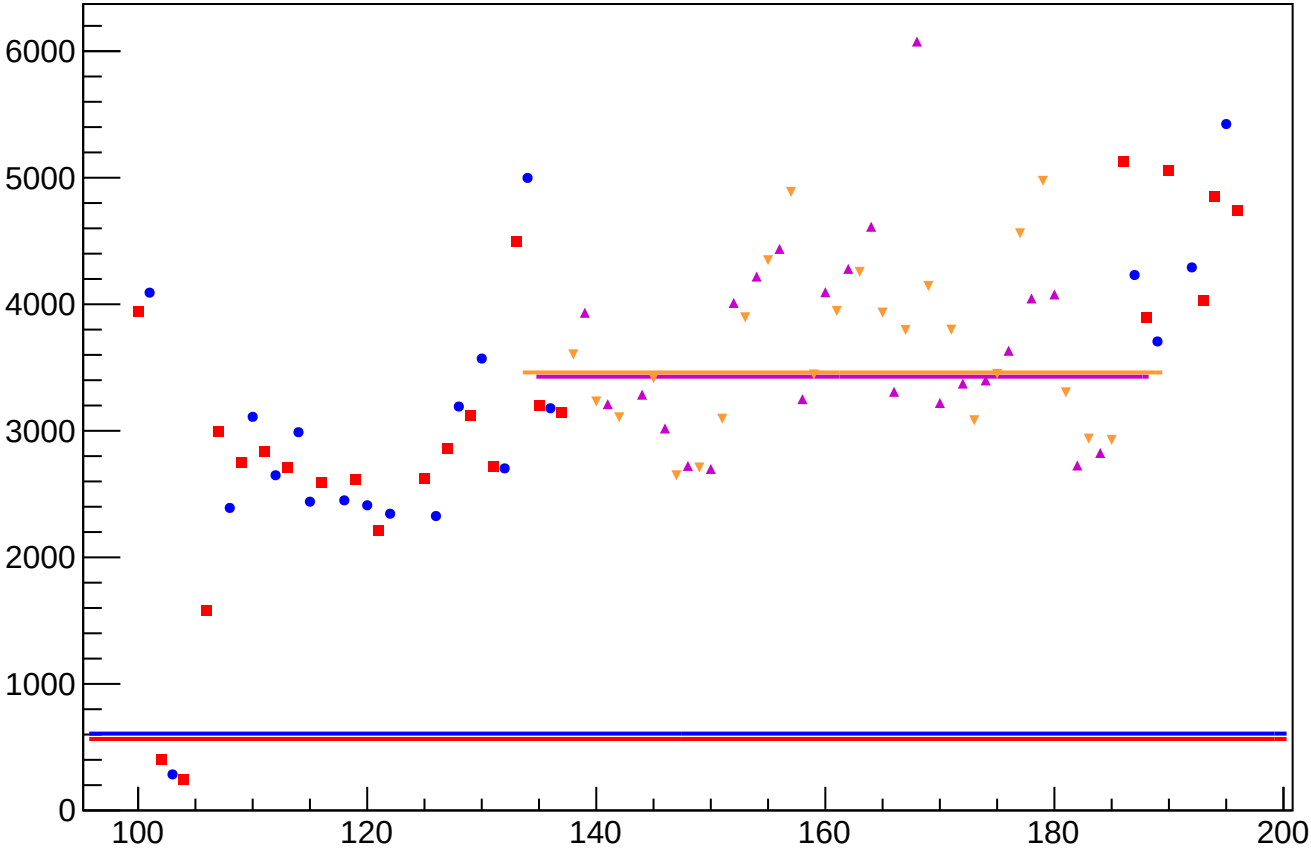
In: 1110.831+/-0.149 $\chi^2$/NDF:682975.9/42

Out: 1115.277+/-0.145 $\chi^2$/NDF:305144.4/47

All: 1113.120+/-0.104 $\chi^2$/NDF: 988578.8/90


asym_us_avg_atlr_avg_dd_reg_correction_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 35.582+/-354.699 χ²/NDF: 19.5/19
Left Out: 277.507+/-820.501 χ²/NDF:29.9/23
Right Out: -94.970+/-319.022 χ²/NDF: 25.8/23
Left In: 94.734+/-817.223 χ²/NDF:13.7/22
Left: 185.755+/-579.019 χ²/NDF: 43.6/46
Right: -36.588+/-237.196 χ²/NDF: 45.4/43
In: 44.959+/-325.373 χ²/NDF:33.2/42
Out: -46.055+/-297.338 χ²/NDF:55.9/47
All: -4.637+/-219.493 χ²/NDF: 89.1/90

asym_us_avg_atlr_avg_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 607.263+/-0.251 $\chi^2$/NDF: 13548605.7/19

Left Out: 3461.259+/-0.580 $\chi^2$/NDF:1058687.1/23

Right Out: 564.434+/-0.226 $\chi^2$/NDF: 15705968.2/23

Left In: 3427.860+/-0.578 $\chi^2$/NDF:1243133.8/22

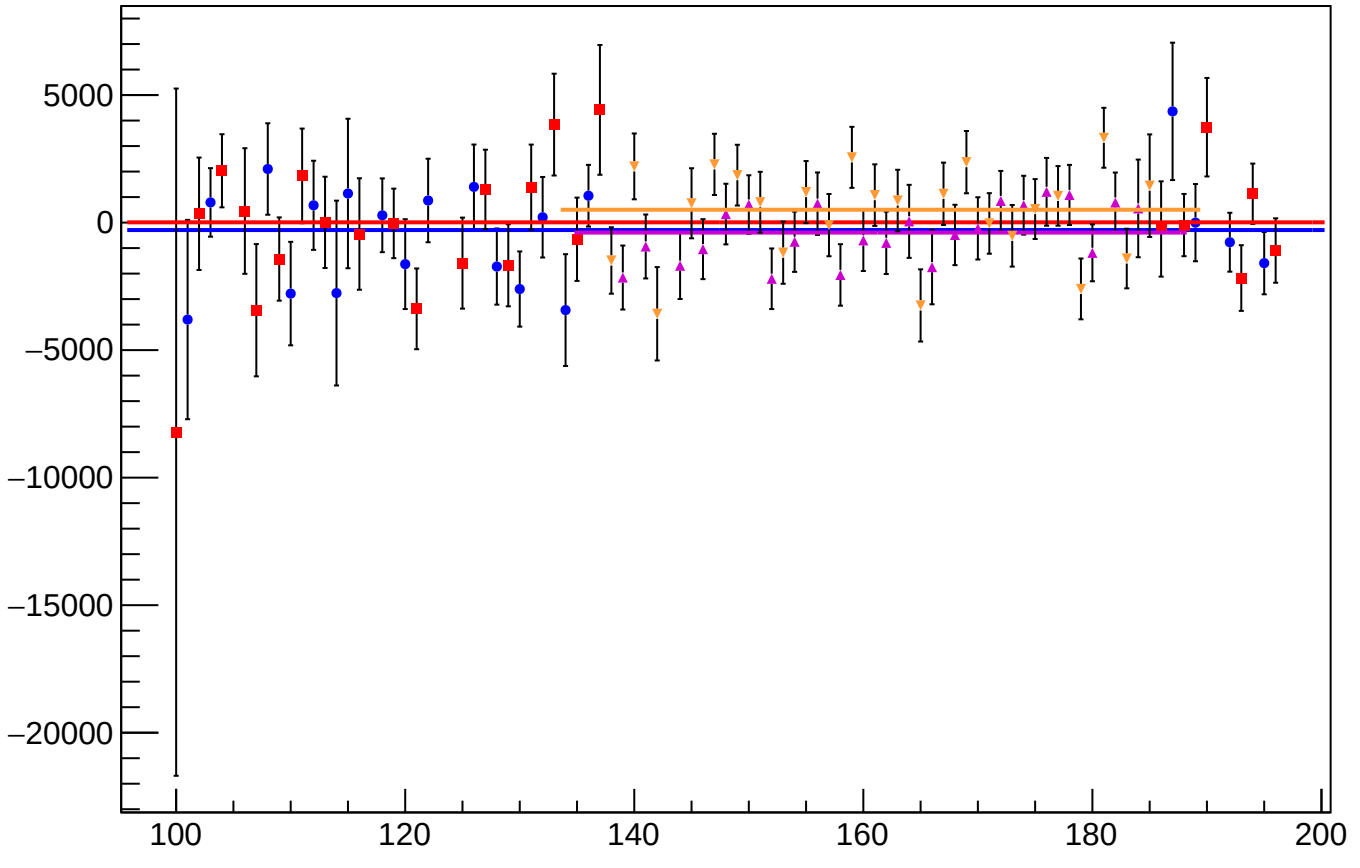
Left: 3444.493+/-0.409 $\chi^2$/NDF: 2303484.4/46

Right: 583.587+/-0.168 $\chi^2$/NDF: 29270694.0/43

In: 1054.382+/-0.230 $\chi^2$/NDF:34839930.3/42

Out: 944.854+/-0.210 $\chi^2$/NDF:38420463.2/47

All: 994.697+/-0.155 $\chi^2$/NDF: 73383890.7/90




Right In: -292.711+/-367.005 $\chi^2$/NDF: 19.1/19

Left Out: 503.679+/-255.531 $\chi^2$/NDF:44.6/23

Right Out: 9.975+/-341.782 $\chi^2$/NDF: 29.0/23

Left In: -391.689+/-257.386 $\chi^2$/NDF:17.8/22

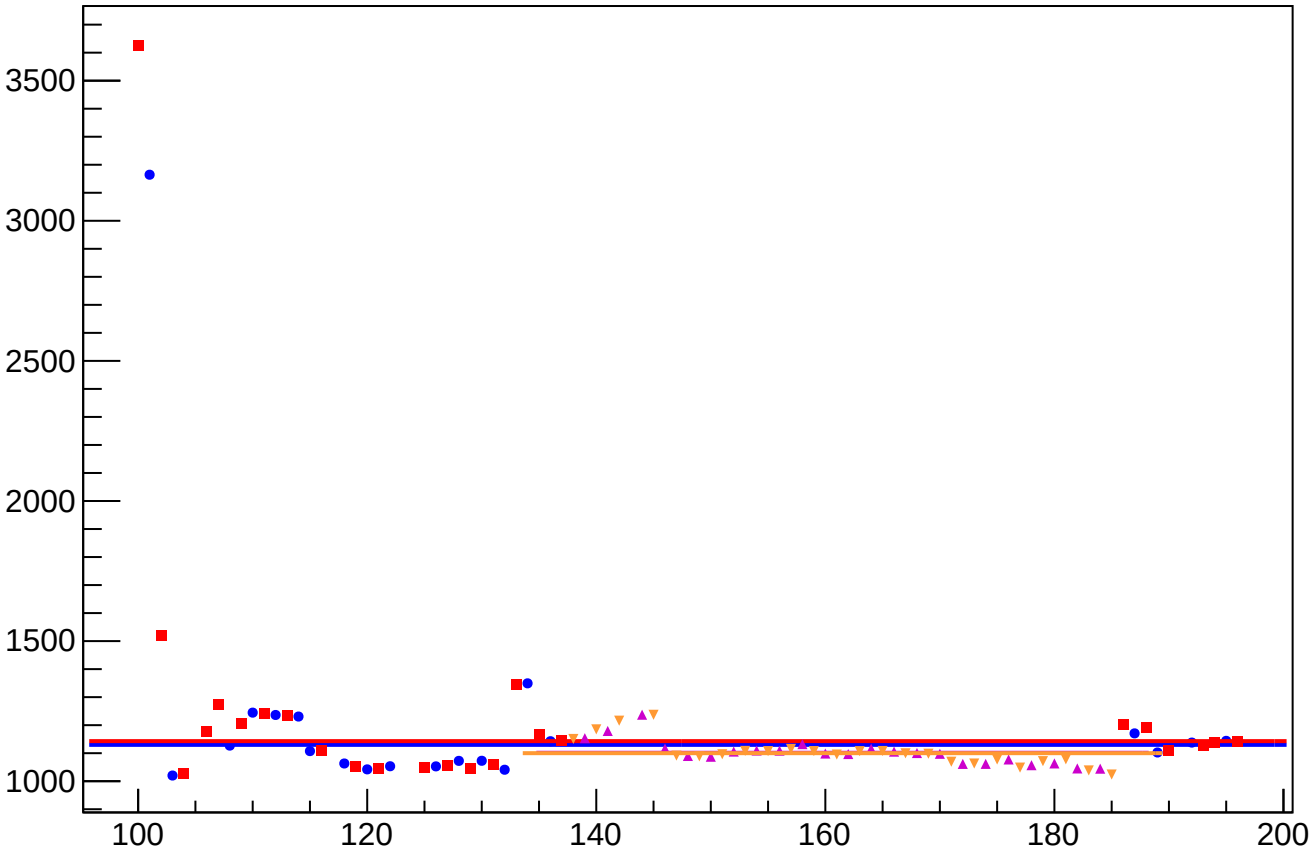
Left: 59.234+/-181.340 $\chi^2$/NDF: 68.5/46

Right: -130.610+/-250.118 $\chi^2$/NDF: 48.5/43

In: -359.057+/-210.729 $\chi^2$/NDF:37.0/42

Out: 326.661+/-204.656 $\chi^2$/NDF:74.9/47

All: -6.175+/-146.814 $\chi^2$/NDF: 117.3/90




Right In: 1129.741+/-0.260 $\chi^2$/NDF: 622909.4/19

Left Out: 1100.063+/-0.181 $\chi^2$/NDF:58733.9/23

Right Out: 1143.045+/-0.242 $\chi^2$/NDF: 227096.0/23

Left In: 1101.530+/-0.182 $\chi^2$/NDF:52145.9/22

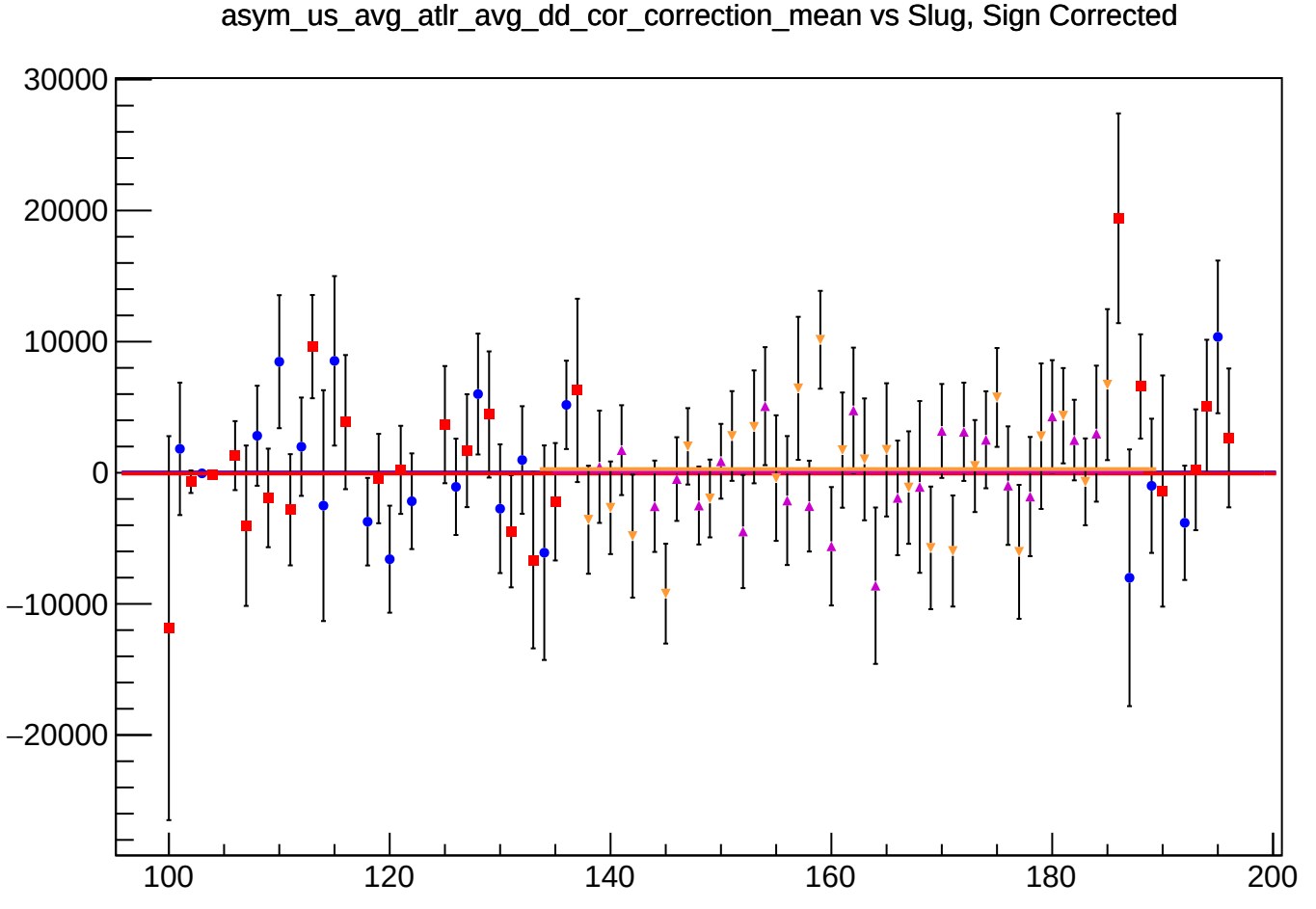
Left: 1100.791+/-0.128 $\chi^2$/NDF: 110912.5/46

Right: 1136.868+/-0.177 $\chi^2$/NDF: 851413.4/43

In: 1110.831+/-0.149 $\chi^2$/NDF:682976.9/42

Out: 1115.481+/-0.145 $\chi^2$/NDF:306127.9/47

All: 1113.224+/-0.104 $\chi^2$/NDF: 989606.2/90




Right In: 19.373+/-341.884 $\chi^2$/NDF: 19.5/19

Left Out: 277.536+/-820.502 $\chi^2$/NDF:29.9/23

Right Out: -53.840+/-314.010 $\chi^2$/NDF: 24.1/23

Left In: 94.742+/-817.222 $\chi^2$/NDF:13.7/22

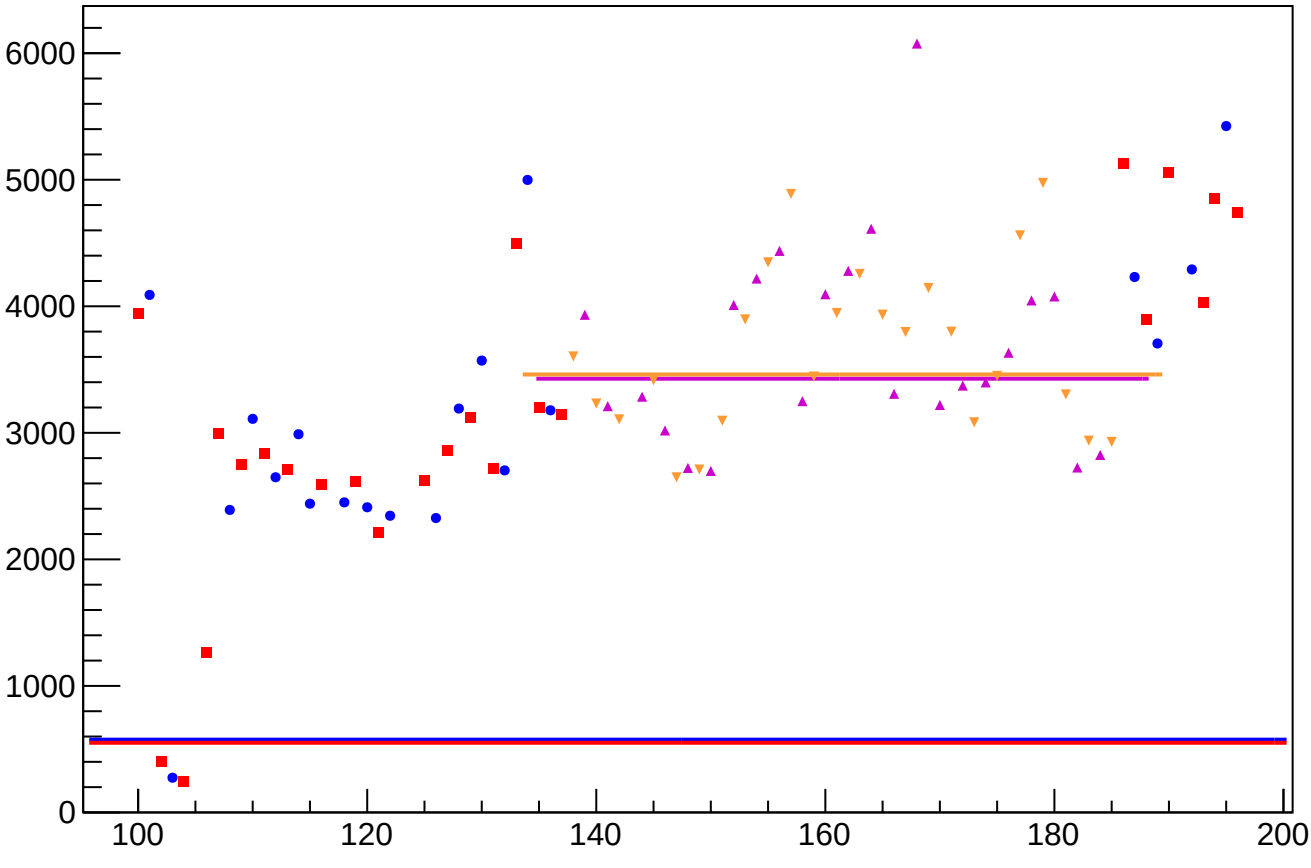
Left: 185.773+/-579.019 $\chi^2$/NDF: 43.6/46

Right: -20.340+/-231.266 $\chi^2$/NDF: 43.6/43

In: 30.599+/-315.396 $\chi^2$/NDF:33.2/42

Out: -11.506+/-293.267 $\chi^2$/NDF:54.1/47

All: 8.017+/-214.769 $\chi^2$/NDF: 87.3/90




Right In: 575.187+/-0.242 $\chi^2$/NDF: 13760215.2/19

Left Out: 3461.261+/-0.580 $\chi^2$/NDF:1058691.8/23

Right Out: 550.820+/-0.222 $\chi^2$/NDF: 15670384.4/23

Left In: 3427.857+/-0.578 $\chi^2$/NDF:1243147.4/22

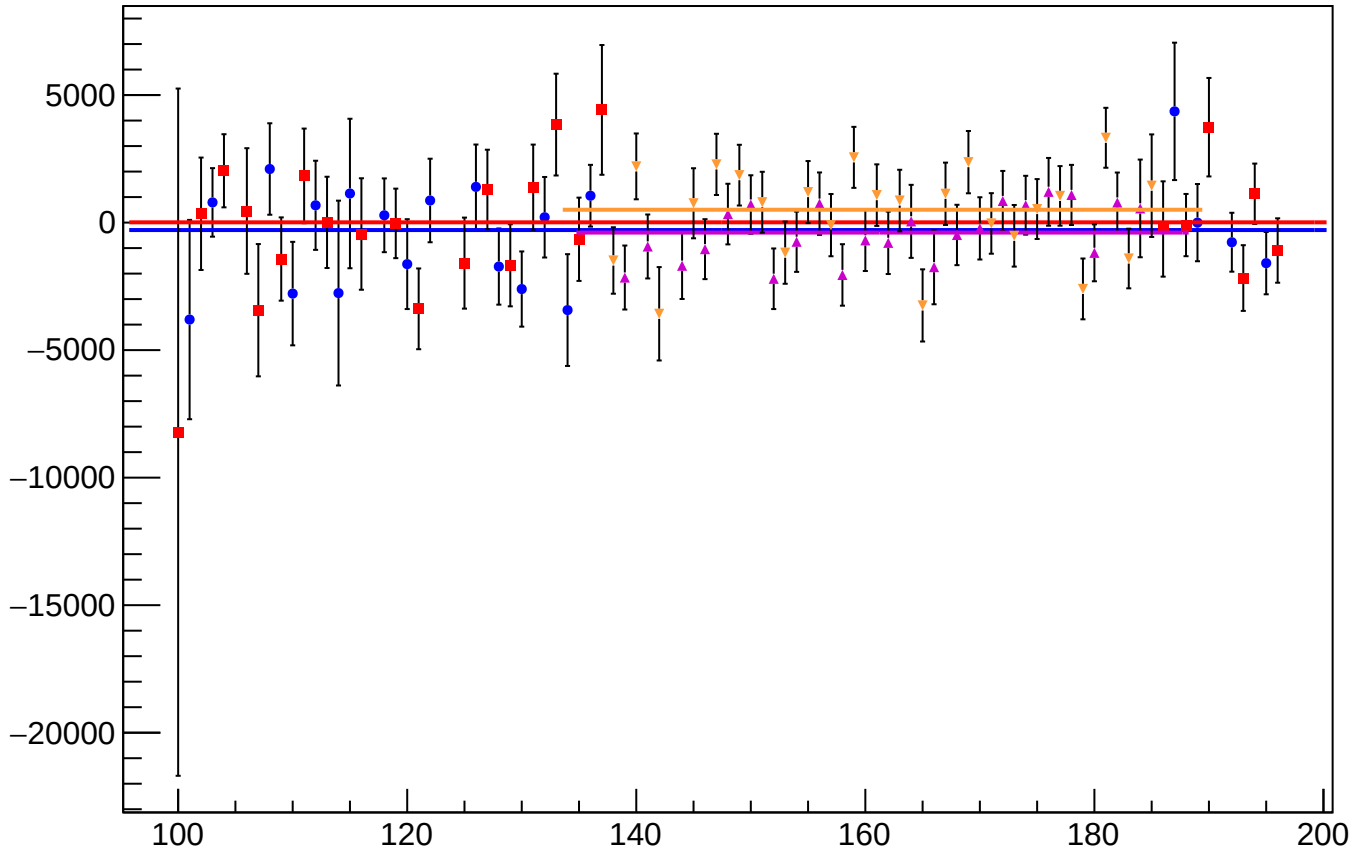
Left: 3444.492+/-0.409 $\chi^2$/NDF: 2303503.3/46

Right: 561.970+/-0.164 $\chi^2$/NDF: 29436110.4/43

In: 1000.085+/-0.223 $\chi^2$/NDF:35743369.9/42

Out: 922.635+/-0.207 $\chi^2$/NDF:38678774.7/47

All: 958.548+/-0.152 $\chi^2$/NDF: 74486825.6/90




Right In: -292.711+/-367.005 $\chi^2$/NDF: 19.1/19

Left Out: 503.679+/-255.531 $\chi^2$/NDF:44.6/23

Right Out: 9.975+/-341.782 $\chi^2$/NDF: 29.0/23

Left In: -391.689+/-257.386 $\chi^2$/NDF:17.8/22

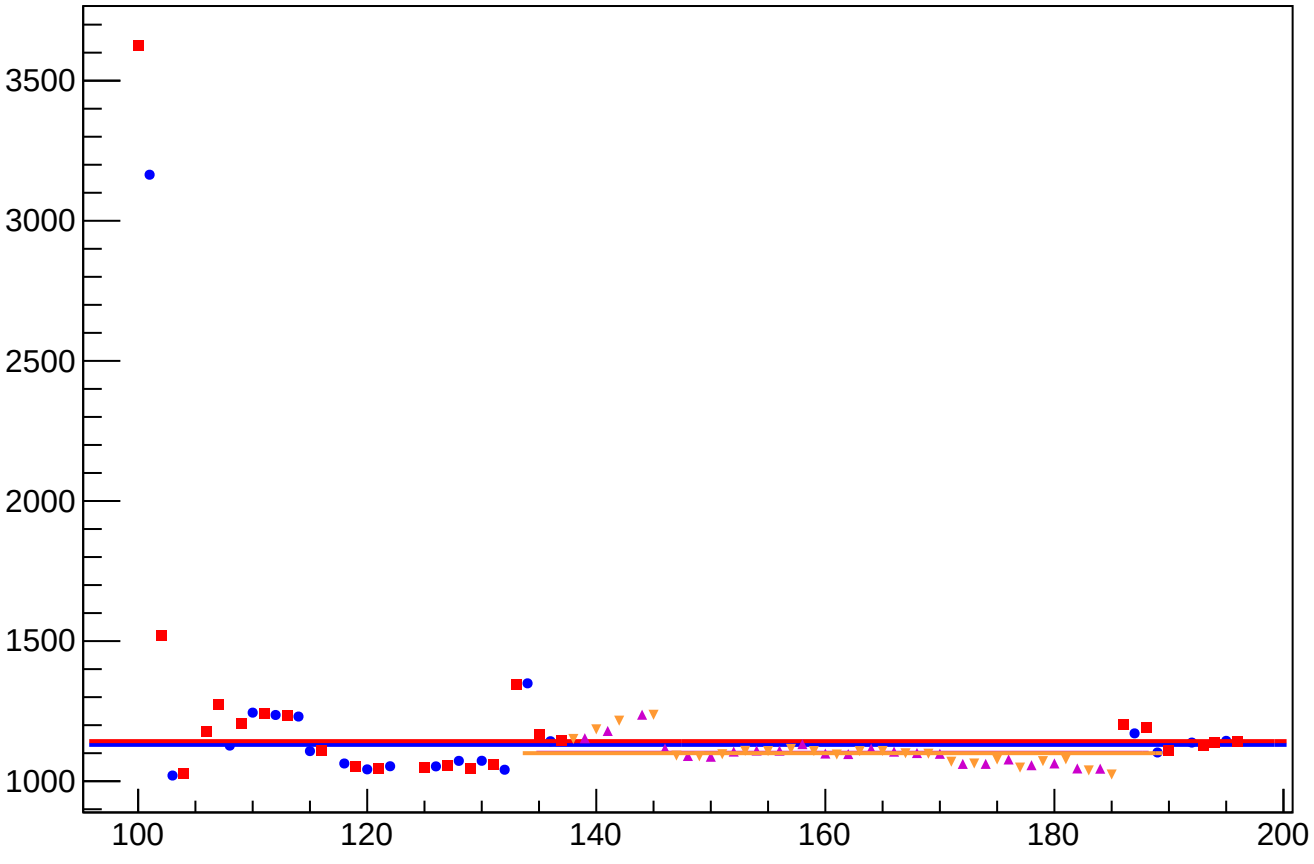
Left: 59.234+/-181.340 $\chi^2$/NDF: 68.5/46

Right: -130.610+/-250.118 $\chi^2$/NDF: 48.5/43

In: -359.057+/-210.729 $\chi^2$/NDF:37.0/42

Out: 326.661+/-204.656 $\chi^2$/NDF:74.9/47

All: -6.175+/-146.814 $\chi^2$/NDF: 117.3/90




Right In: 1129.741+/-0.260 $\chi^2$/NDF: 622909.4/19

Left Out: 1100.063+/-0.181 $\chi^2$/NDF:58733.9/23

Right Out: 1143.045+/-0.242 $\chi^2$/NDF: 227096.0/23

Left In: 1101.530+/-0.182 $\chi^2$/NDF:52145.9/22

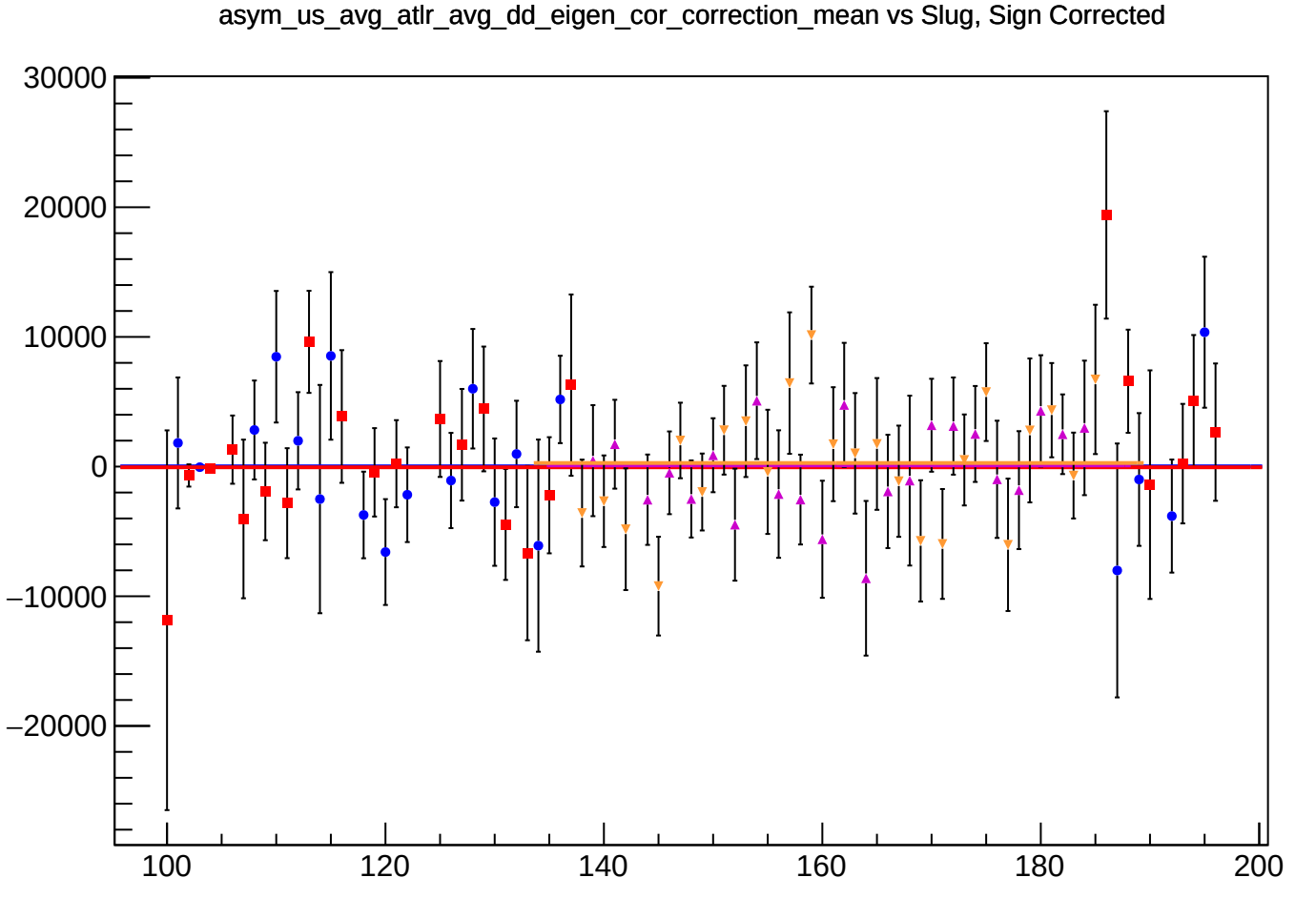
Left: 1100.791+/-0.128 $\chi^2$/NDF: 110912.5/46

Right: 1136.868+/-0.177 $\chi^2$/NDF: 851413.4/43

In: 1110.831+/-0.149 $\chi^2$/NDF:682976.9/42

Out: 1115.481+/-0.145 $\chi^2$/NDF:306127.9/47

All: 1113.224+/-0.104 $\chi^2$/NDF: 989606.2/90




Right In: 19.373+/-341.884 $\chi^2$/NDF: 19.5/19

Left Out: 277.536+/-820.502 $\chi^2$/NDF:29.9/23

Right Out: -53.840+/-314.010 $\chi^2$/NDF: 24.1/23

Left In: 94.742+/-817.222 $\chi^2$/NDF:13.7/22

Left: 185.773+/-579.019 $\chi^2$/NDF: 43.6/46

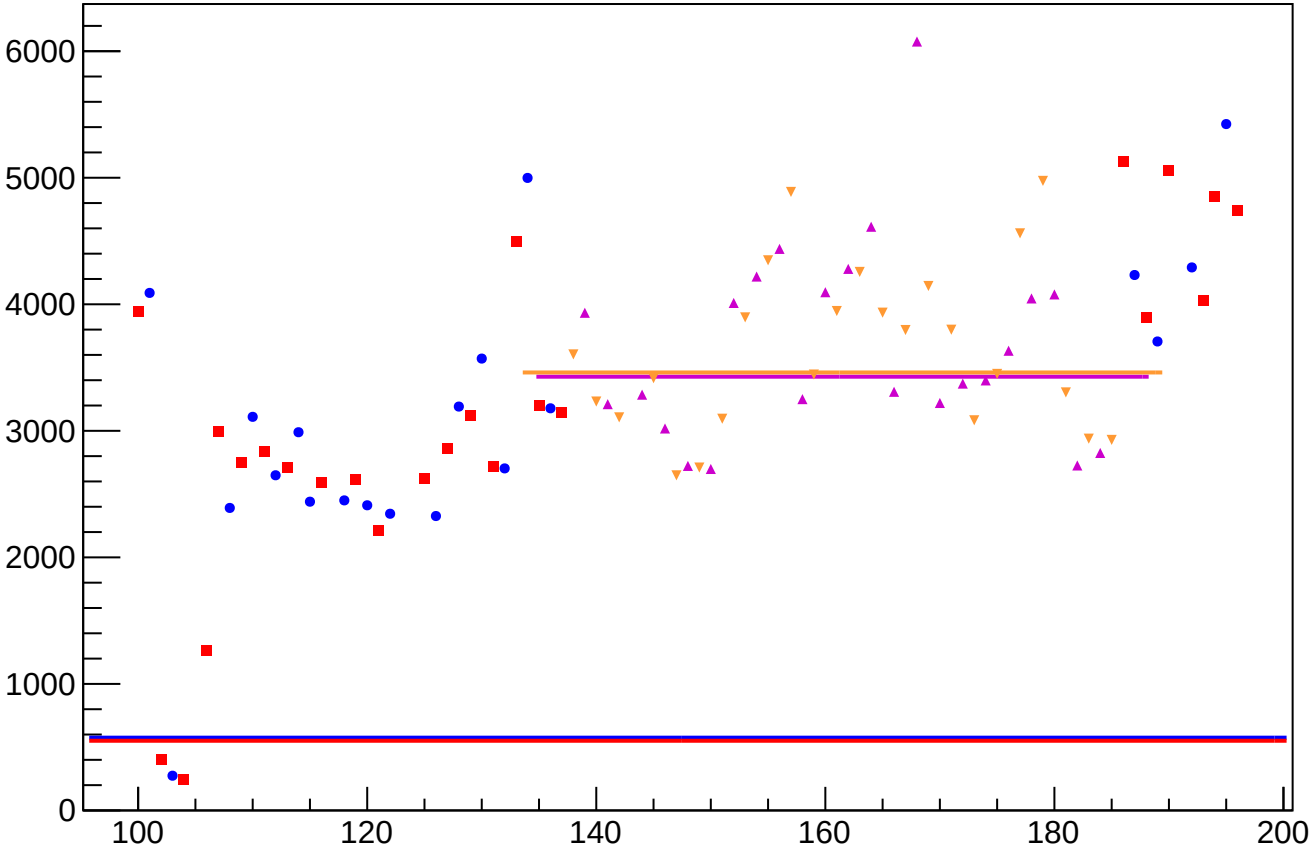
Right: -20.340+/-231.266 $\chi^2$/NDF: 43.6/43

In: 30.599+/-315.396 $\chi^2$/NDF:33.2/42

Out: -11.506+/-293.267 $\chi^2$/NDF:54.1/47

All: 8.017+/-214.769 $\chi^2$/NDF: 87.3/90

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 575.187+/-0.242 $\chi^2$/NDF: 13760215.2/19

Left Out: 3461.261+/-0.580 $\chi^2$/NDF:1058691.8/23

Right Out: 550.820+/-0.222 $\chi^2$/NDF: 15670384.4/23

Left In: 3427.857+/-0.578 $\chi^2$/NDF:1243147.4/22

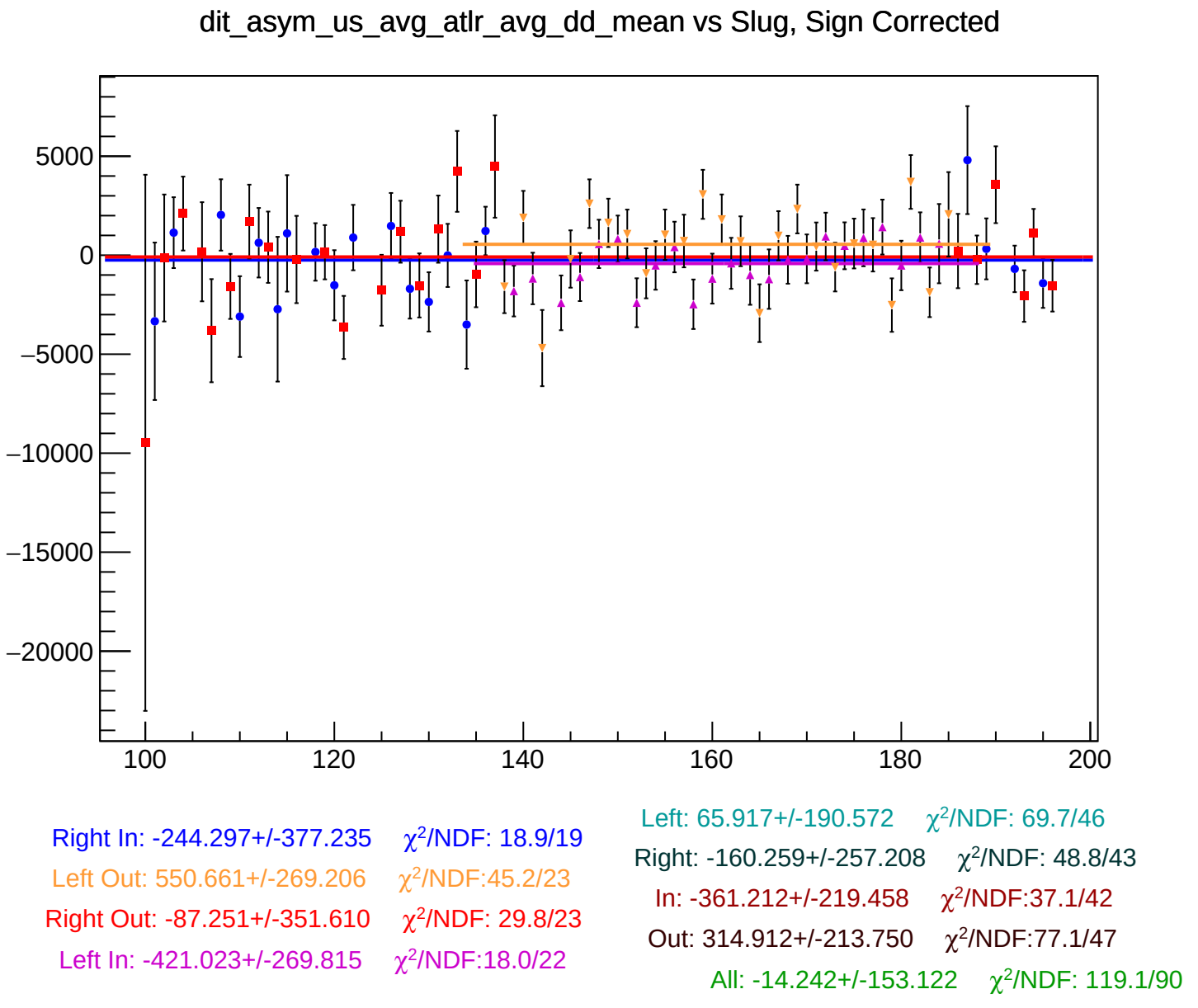
Left: 3444.492+/-0.409 $\chi^2$/NDF: 2303503.3/46

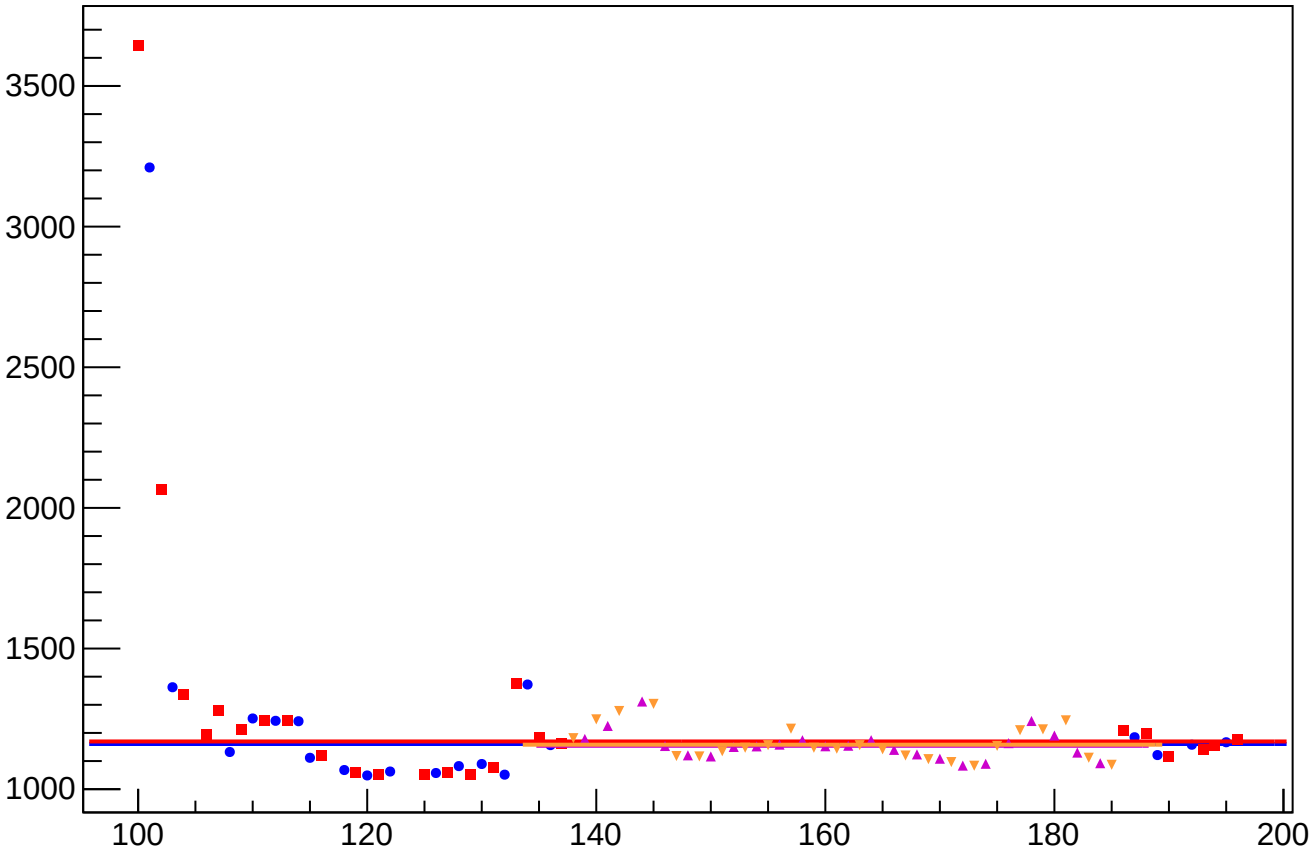
Right: 561.970+/-0.164 $\chi^2$/NDF: 29436110.4/43

In: 1000.085+/-0.223 $\chi^2$/NDF:35743369.9/42

Out: 922.635+/-0.207 $\chi^2$/NDF:38678774.7/47

All: 958.548+/-0.152 $\chi^2$/NDF: 74486825.6/90


dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
100
120
140
160
180
200
Right In: -244.297+/-377.235 χ²/NDF: 18.9/19
Left Out: 550.661+/-269.206 χ²/NDF:45.2/23
Right Out: -87.251+/-351.610 χ²/NDF: 29.8/23
Left In: -421.023+/-269.815 χ²/NDF:18.0/22
Left: 65.917+/-190.572 χ²/NDF: 69.7/46
Right: -160.259+/-257.208 χ²/NDF: 48.8/43
In: -361.212+/-219.458 χ²/NDF:37.1/42
Out: 314.912+/-213.750 χ²/NDF:77.1/47
All: -14.242+/-153.122 χ²/NDF: 119.1/90




Right In: 1160.653+/-0.267 $\chi^2$/NDF: 636921.9/19

Left Out: 1158.177+/-0.190 $\chi^2$/NDF:84111.8/23

Right Out: 1169.687+/-0.249 $\chi^2$/NDF: 336478.4/23

Left In: 1154.231+/-0.191 $\chi^2$/NDF:66476.9/22

Left: 1156.208+/-0.135 $\chi^2$/NDF: 150803.1/46

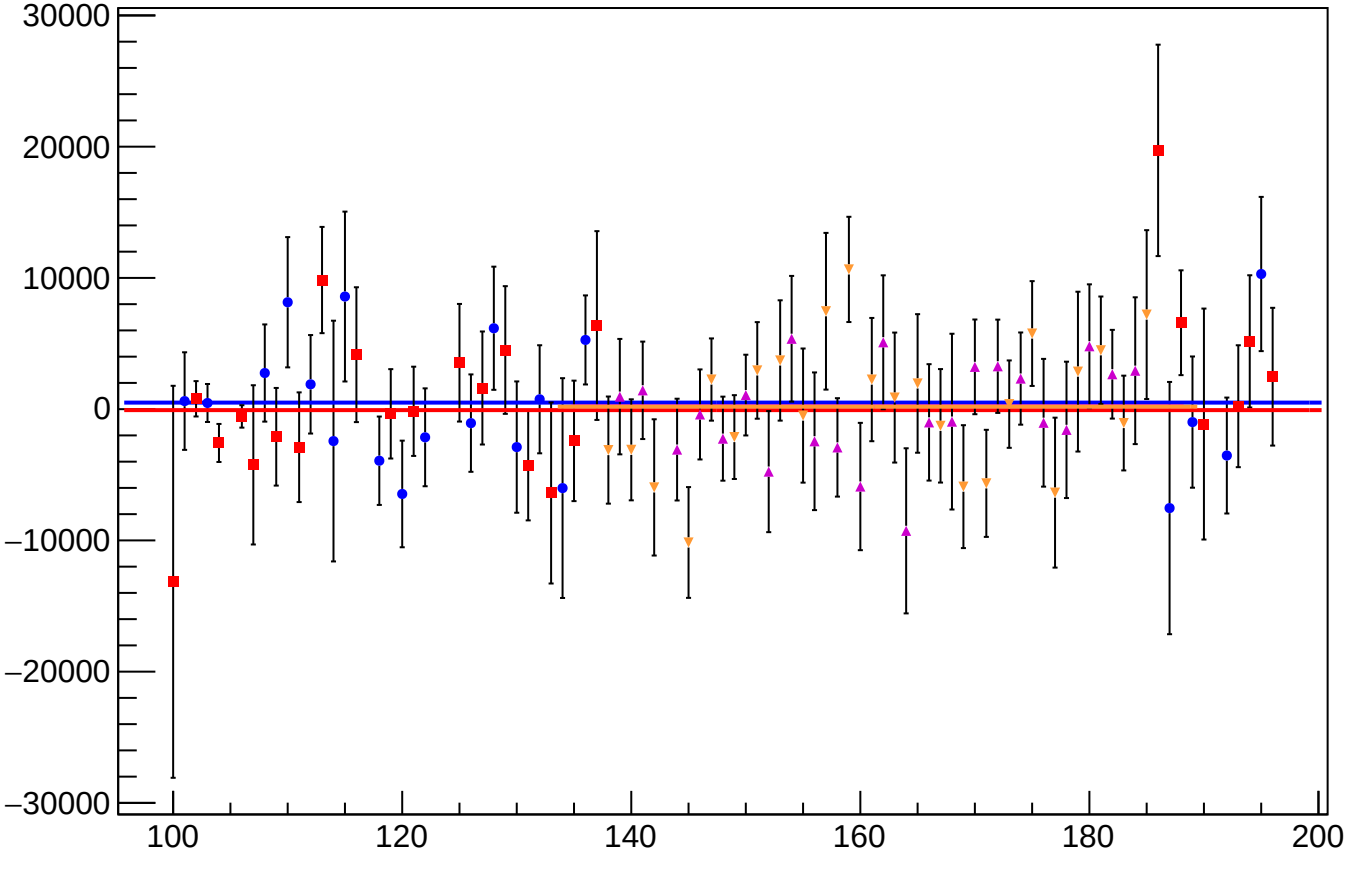
Right: 1165.489+/-0.182 $\chi^2$/NDF: 974014.3/43

In: 1156.404+/-0.155 $\chi^2$/NDF:703782.4/42

Out: 1162.432+/-0.151 $\chi^2$/NDF:421941.9/47

All: 1159.498+/-0.108 $\chi^2$/NDF: 1126498.7/90

asym_us_avg_atlr_avg_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 499.484+/-833.388 $\chi^2$/NDF: 18.8/19

Left Out: 189.735+/-869.432 $\chi^2$/NDF:29.3/23

Right Out: -73.281+/-547.497 $\chi^2$/NDF: 27.2/23

Left In: 221.361+/-864.775 $\chi^2$/NDF:13.4/22

Left: 205.633+/-613.128 $\chi^2$/NDF: 42.7/46

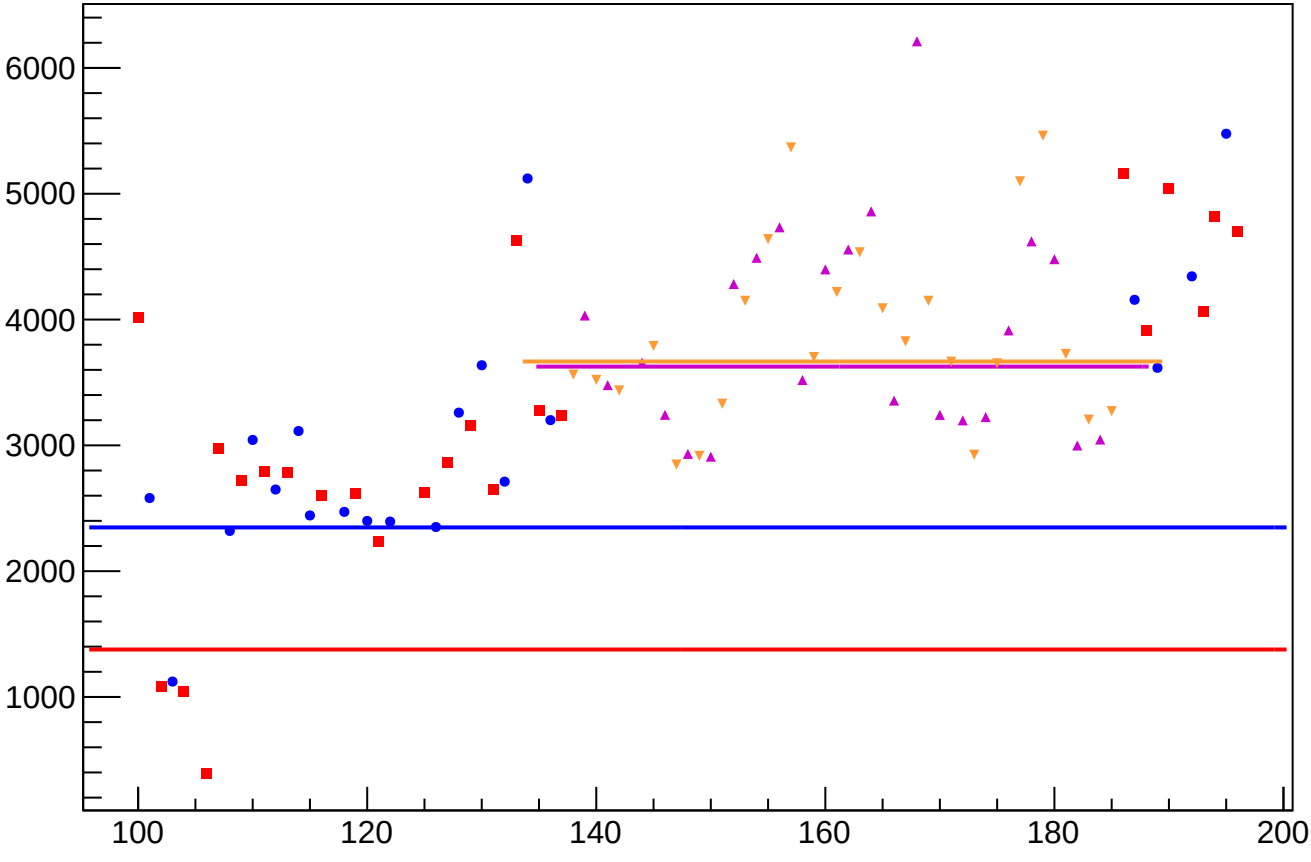
Right: 99.394+/-457.586 $\chi^2$/NDF: 46.3/43

In: 365.561+/-600.084 $\chi^2$/NDF:32.3/42

Out: 1.402+/-463.292 $\chi^2$/NDF:56.5/47

All: 137.399+/-366.717 $\chi^2$/NDF: 89.0/90

asym_us_avg_atlr_avg_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 2347.809+/-0.589 $\chi^2$/NDF: 3255938.4/19

Left Out: 3666.536+/-0.615 $\chi^2$/NDF:1095831.4/23

Right Out: 1377.280+/-0.387 $\chi^2$/NDF: 10084307.3/23

Left In: 3625.940+/-0.611 $\chi^2$/NDF:1257928.4/22

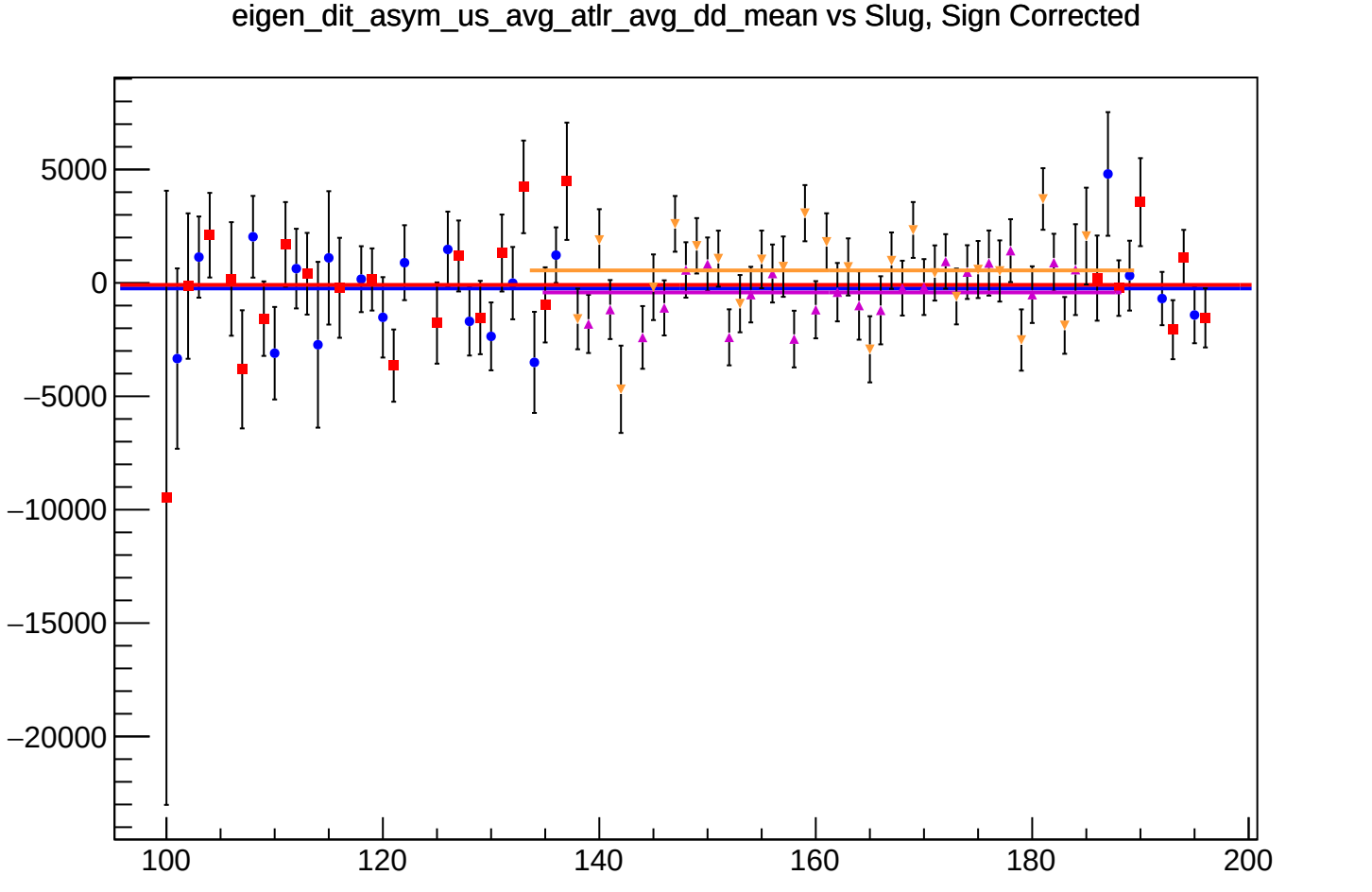
Left: 3646.129+/-0.434 $\chi^2$/NDF: 2355951.7/46

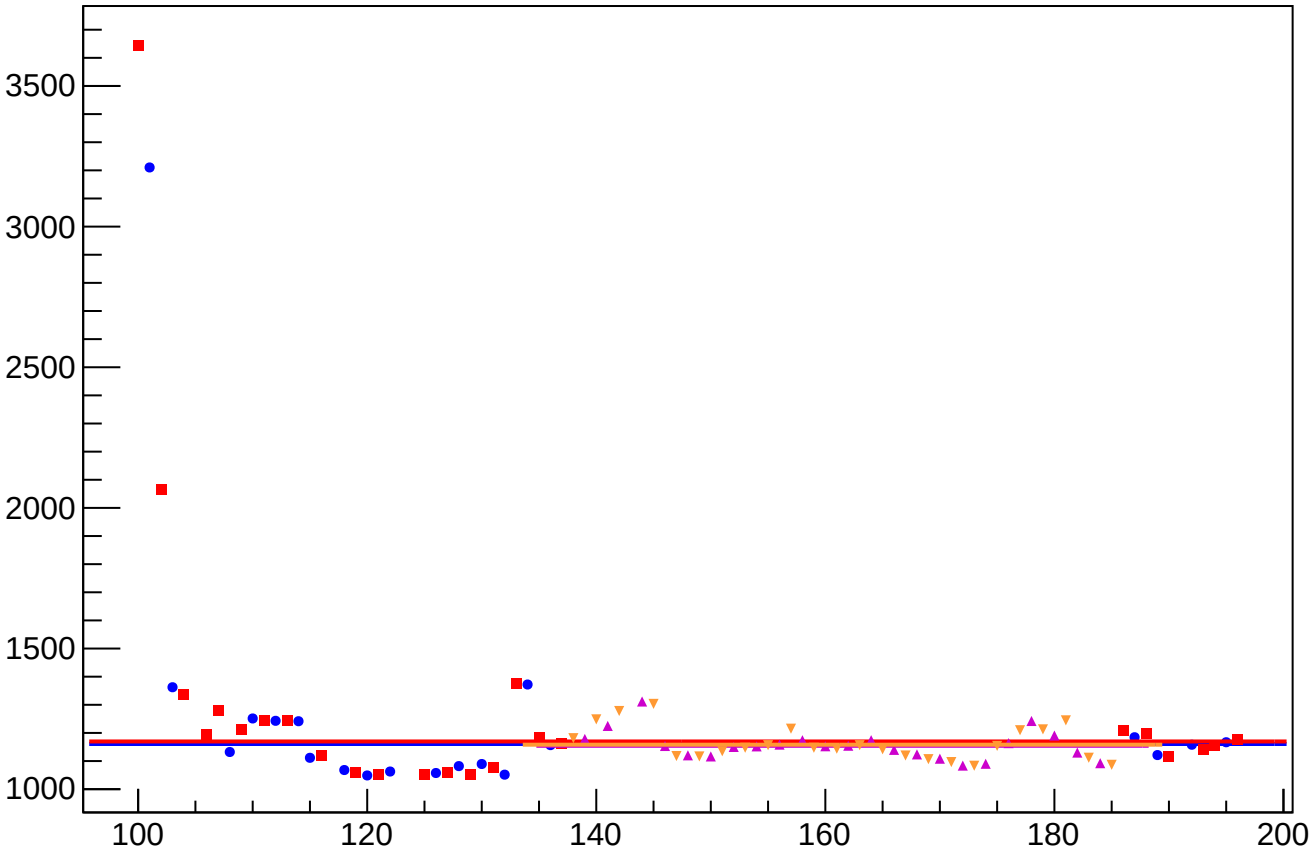
Right: 1669.871+/-0.324 $\chi^2$/NDF: 15234921.6/43

In: 2963.259+/-0.424 $\chi^2$/NDF:6779049.9/42

Out: 2027.308+/-0.328 $\chi^2$/NDF:21108832.0/47

All: 2376.843+/-0.259 $\chi^2$/NDF: 30936235.6/9


eigen_dit_asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
5000
0
−5000
−10000
−15000
−20000
100
120
140
160
180
200
Right In: -244.296+/-377.235 χ²/NDF: 18.9/19
Left Out: 550.663+/-269.206 χ²/NDF:45.2/23
Right Out: -87.253+/-351.610 χ²/NDF: 29.8/23
Left In: -421.022+/-269.815 χ²/NDF:18.0/22
Left: 65.918+/-190.573 χ²/NDF: 69.7/46
Right: -160.260+/-257.208 χ²/NDF: 48.8/43
In: -361.211+/-219.458 χ²/NDF:37.1/42
Out: 314.912+/-213.750 χ²/NDF:77.1/47
All: -14.242+/-153.122 χ²/NDF: 119.1/90




Right In: 1160.653+/-0.267 $\chi^2$/NDF: 636922.2/19

Left Out: 1158.178+/-0.190 $\chi^2$/NDF:84114.3/23

Right Out: 1169.687+/-0.249 $\chi^2$/NDF: 336478.1/23

Left In: 1154.232+/-0.191 $\chi^2$/NDF:66479.5/22

Left: 1156.209+/-0.135 $\chi^2$/NDF: 150808.1/46

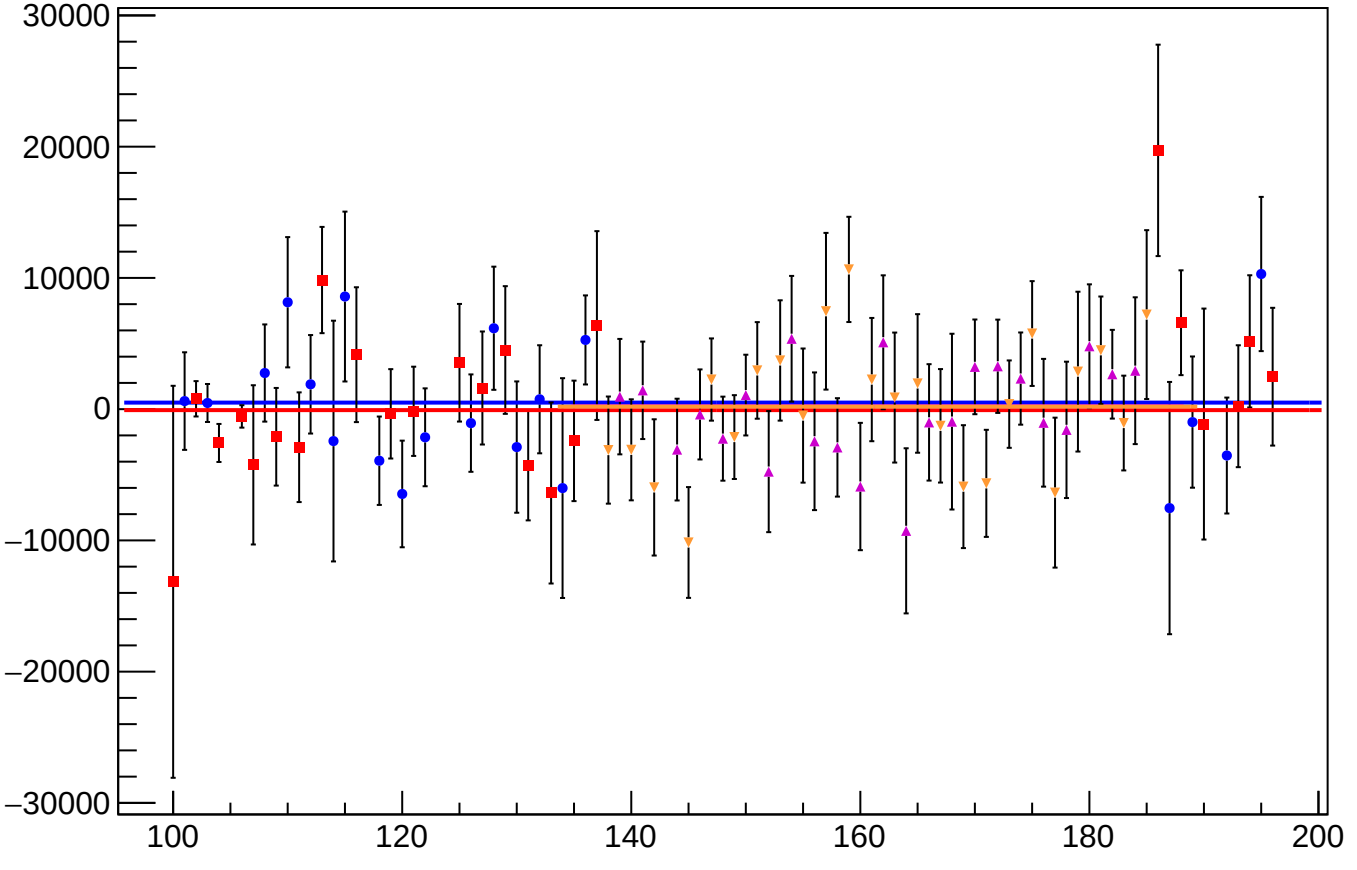
Right: 1165.488+/-0.182 $\chi^2$/NDF: 974014.2/43

In: 1156.405+/-0.155 $\chi^2$/NDF:703785.0/42

Out: 1162.433+/-0.151 $\chi^2$/NDF:421943.8/47

All: 1159.499+/-0.108 $\chi^2$/NDF: 1126503.2/90

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 499.478+/-833.387 $\chi^2$/NDF: 18.8/19

Left Out: 189.735+/-869.434 $\chi^2$/NDF:29.3/23

Right Out: -73.289+/-547.491 $\chi^2$/NDF: 27.2/23

Left In: 221.363+/-864.776 $\chi^2$/NDF:13.4/22

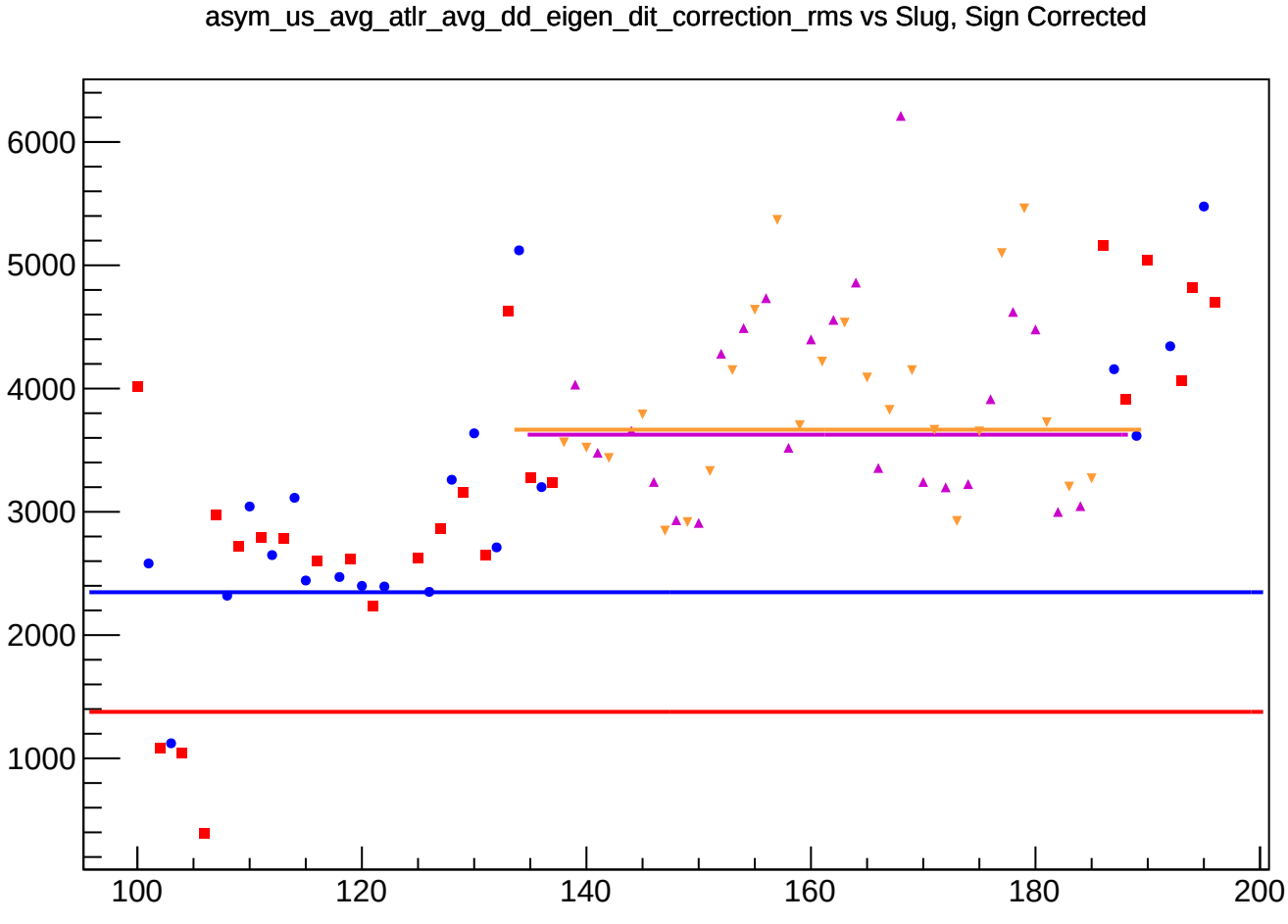
Left: 205.634+/-613.129 $\chi^2$/NDF: 42.7/46

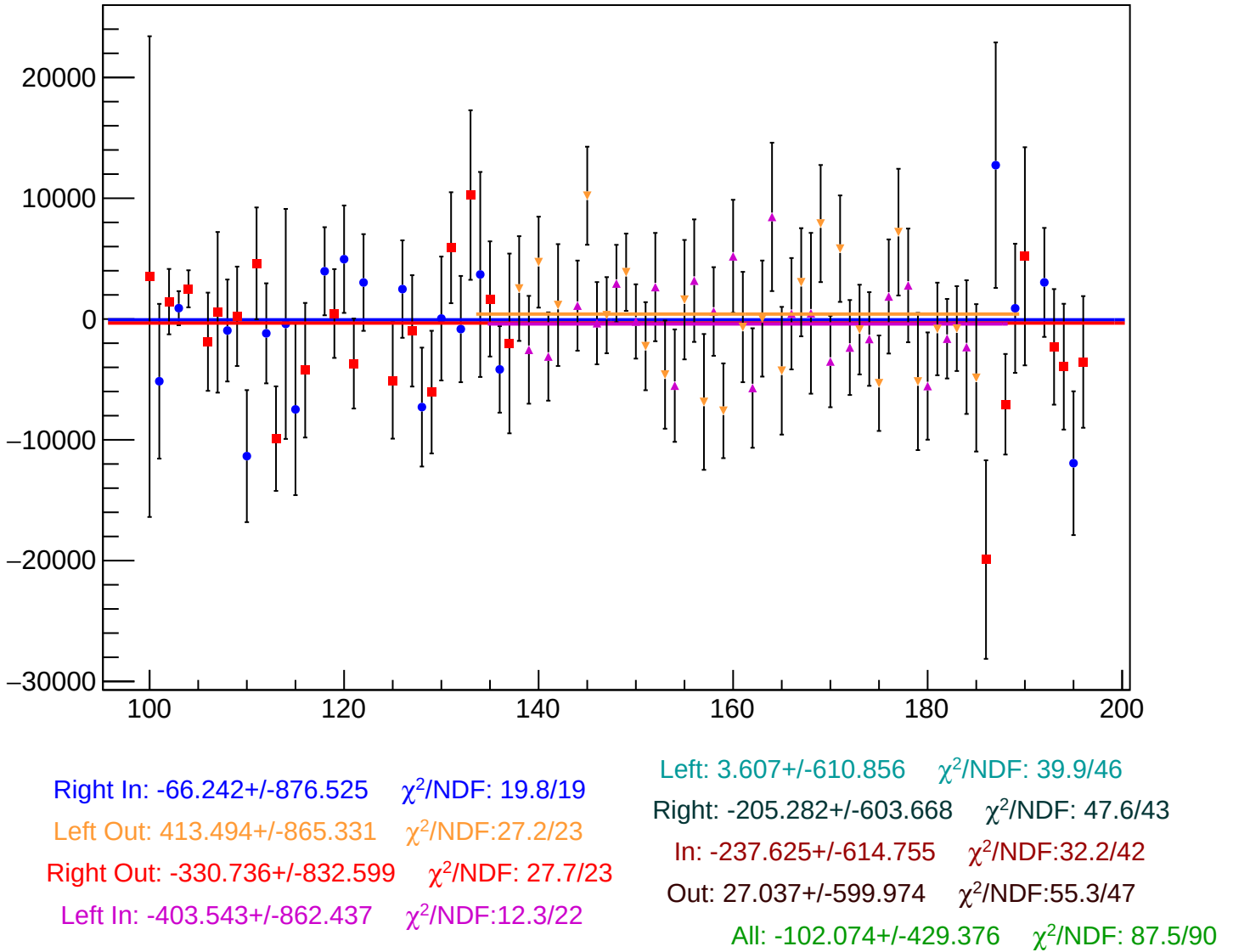
Right: 99.384+/-457.582 $\chi^2$/NDF: 46.3/43

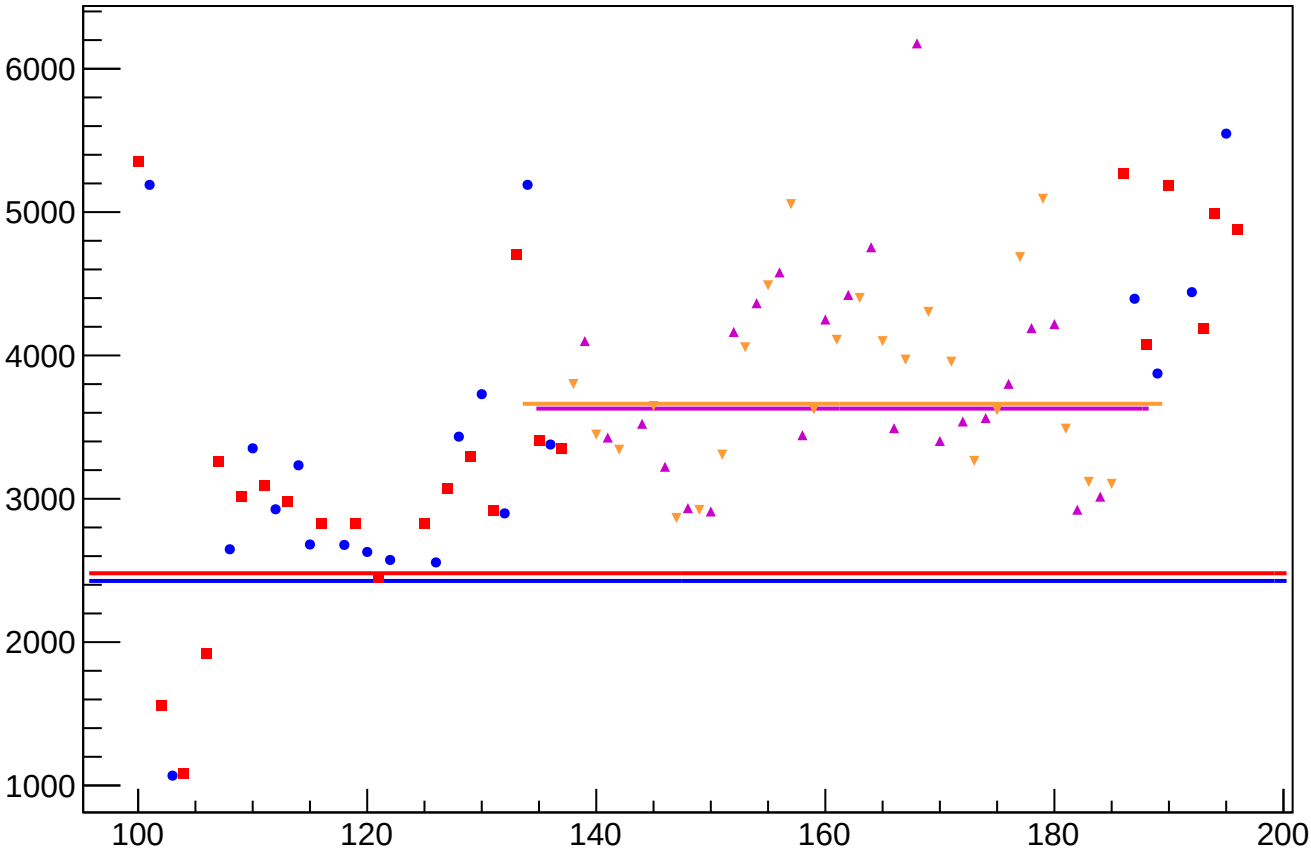
In: 365.560+/-600.084 $\chi^2$/NDF:32.3/42

Out: 1.394+/-463.288 $\chi^2$/NDF:56.5/47

All: 137.392+/-366.715 $\chi^2$/NDF: 89.0/90


asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 2347.806+/-0.589 χ²/NDF: 3255943.7/19
Left Out: 3666.541+/-0.615 χ²/NDF:1095834.2/23
Right Out: 1377.254+/-0.387 χ²/NDF: 10084503.6/23
Left In: 3625.945+/-0.611 χ²/NDF:1257933.0/22
Left: 3646.134+/-0.434 χ²/NDF: 2355959.1/46
Right: 1669.847+/-0.324 χ²/NDF: 15235229.3/43
In: 2963.258+/-0.424 χ²/NDF:6779088.4/42
Out: 2027.278+/-0.328 χ²/NDF:21109347.7/47
All: 2376.821+/-0.259 χ²/NDF: 30936990.0/9


asym_us_avg_atlr_avg_dd_mean vs Slug, Sign Corrected
20000
10000
0
−10000
−20000
−30000
100
120
140
160
180
200
Right In: -66.242+/-876.525 χ²/NDF: 19.8/19
Left Out: 413.494+/-865.331 χ²/NDF:27.2/23
Right Out: -330.736+/-832.599 χ²/NDF: 27.7/23
Left In: -403.543+/-862.437 χ²/NDF:12.3/22
Left: 3.607+/-610.856 χ²/NDF: 39.9/46
Right: -205.282+/-603.668 χ²/NDF: 47.6/43
In: -237.625+/-614.755 χ²/NDF:32.2/42
Out: 27.037+/-599.974 χ²/NDF:55.3/47
All: -102.074+/-429.376 χ²/NDF: 87.5/90




Right In: 2426.959+/-0.620 $\chi^2$/NDF: 4118444.0/19

Left Out: 3662.662+/-0.612 $\chi^2$/NDF:893468.3/23

Right Out: 2480.510+/-0.588 $\chi^2$/NDF: 4353746.0/23

Left In: 3629.184+/-0.610 $\chi^2$/NDF:1054949.6/22

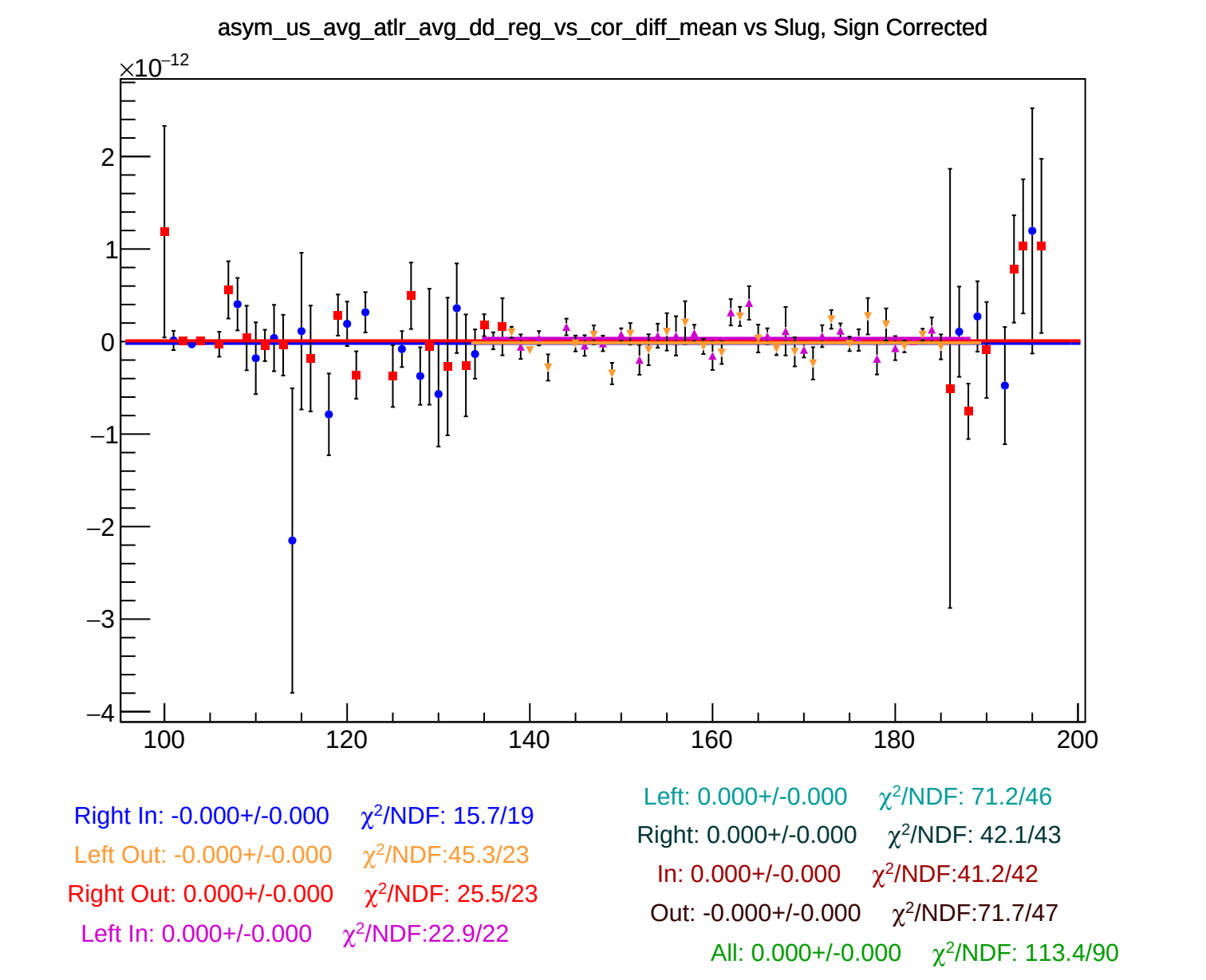
Left: 3645.867+/-0.432 $\chi^2$/NDF: 1949919.7/46

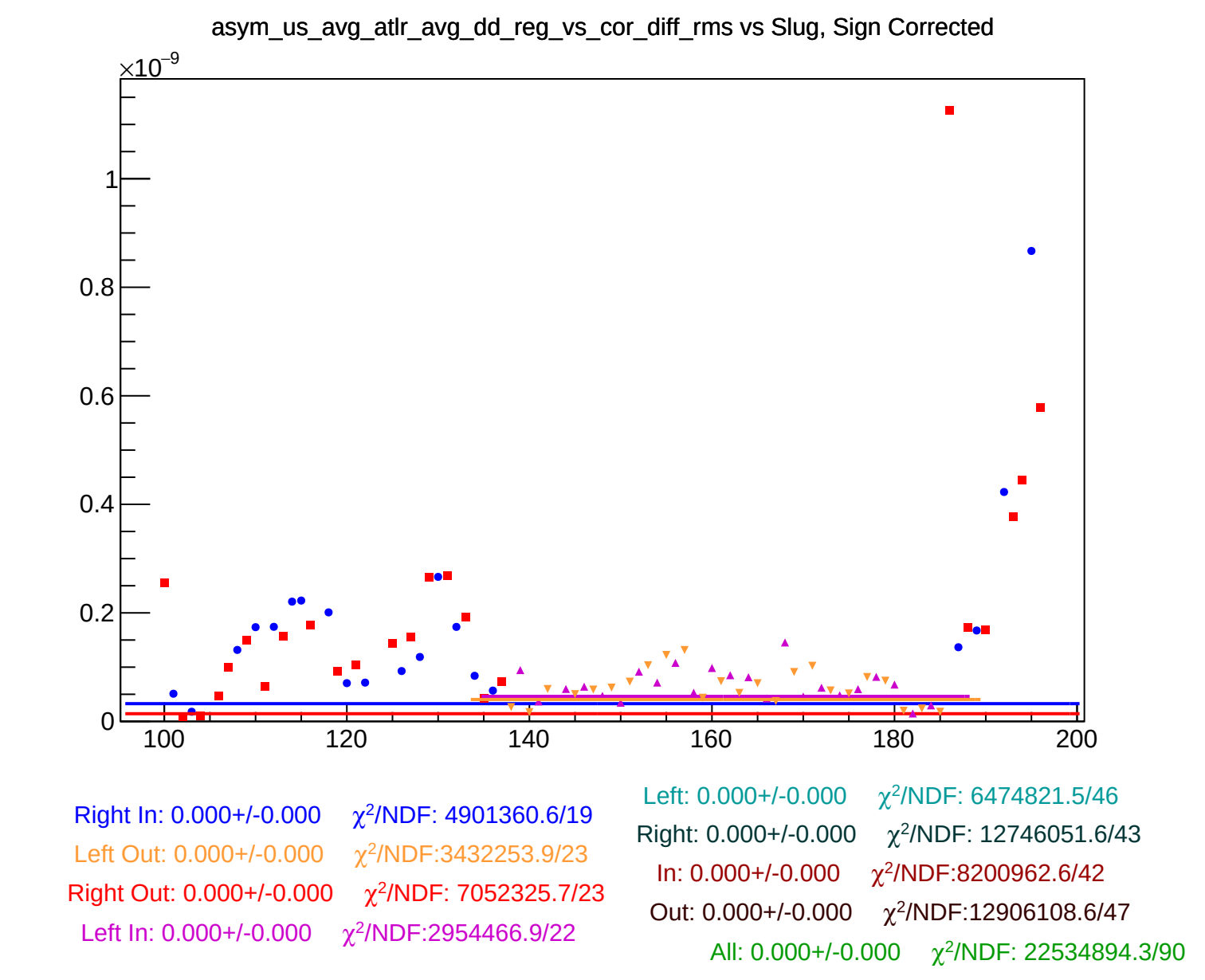
Right: 2455.165+/-0.426 $\chi^2$/NDF: 8476122.1/43

In: 3037.808+/-0.435 $\chi^2$/NDF:7085112.3/42

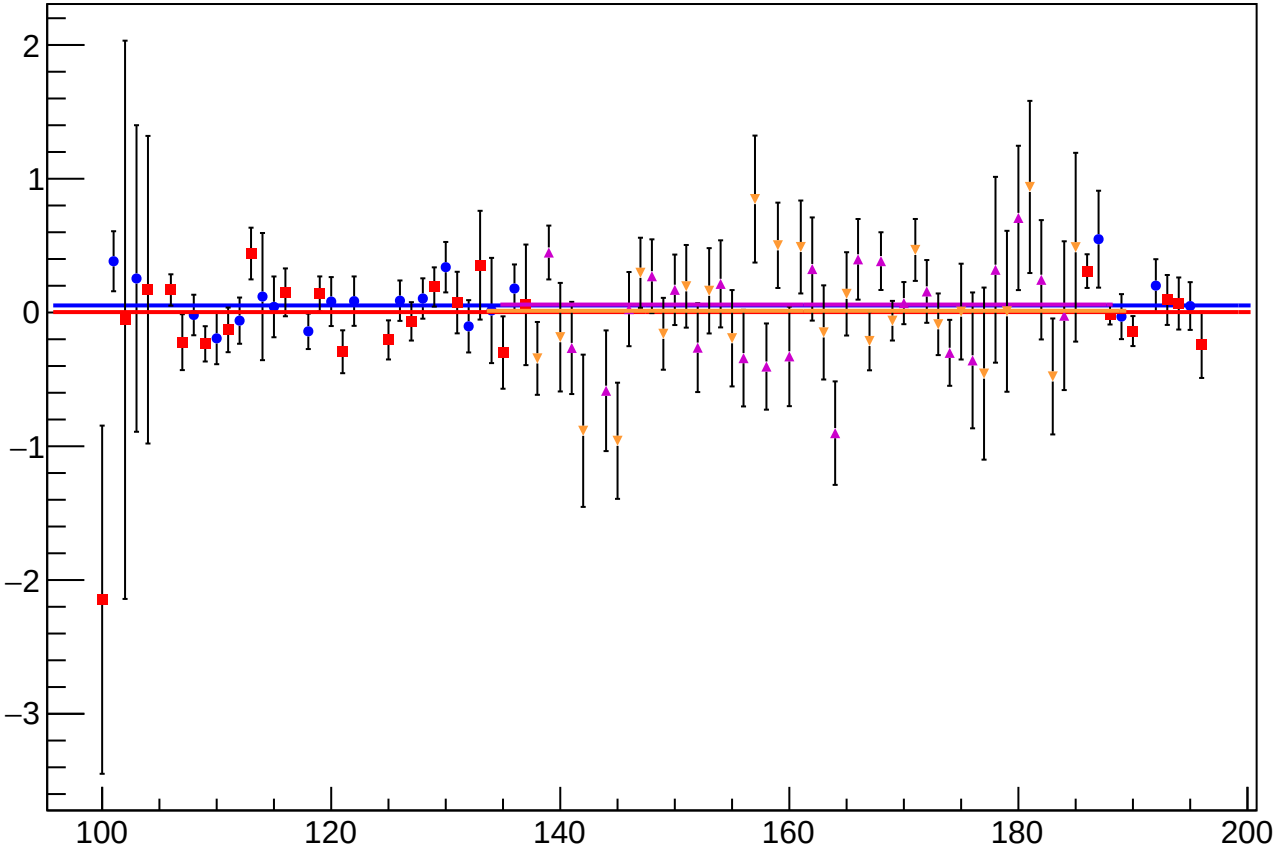
Out: 3047.586+/-0.424 $\chi^2$/NDF:7189292.3/47

All: 3042.821+/-0.303 $\chi^2$/NDF: 14274664.1/9


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
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 15.7/19
Left Out: -0.000+/-0.000 χ²/NDF:45.3/23
Right Out: 0.000+/-0.000 χ²/NDF: 25.5/23
Left In: 0.000+/-0.000 χ²/NDF:22.9/22
Left: 0.000+/-0.000 χ²/NDF: 71.2/46
Right: 0.000+/-0.000 χ²/NDF: 42.1/43
In: 0.000+/-0.000 χ²/NDF:41.2/42
Out: -0.000+/-0.000 χ²/NDF:71.7/47
All: 0.000+/-0.000 χ²/NDF: 113.4/90


asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4901360.6/19
Left Out: 0.000+/-0.000 χ²/NDF:3432253.9/23
Right Out: 0.000+/-0.000 χ²/NDF: 7052325.7/23
Left In: 0.000+/-0.000 χ²/NDF:2954466.9/22
Left: 0.000+/-0.000 χ²/NDF: 6474821.5/46
Right: 0.000+/-0.000 χ²/NDF: 12746051.6/43
In: 0.000+/-0.000 χ²/NDF:8200962.6/42
Out: 0.000+/-0.000 χ²/NDF:12906108.6/47
All: 0.000+/-0.000 χ²/NDF: 22534894.3/90

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.053+/-0.043 $\chi^2$/NDF: 13.0/19

Left Out: 0.013+/-0.063 $\chi^2$/NDF:29.3/23

Right Out: 0.003+/-0.033 $\chi^2$/NDF: 35.0/23

Left In: 0.059+/-0.062 $\chi^2$/NDF:27.9/22

Left: 0.036+/-0.044 $\chi^2$/NDF: 57.5/46

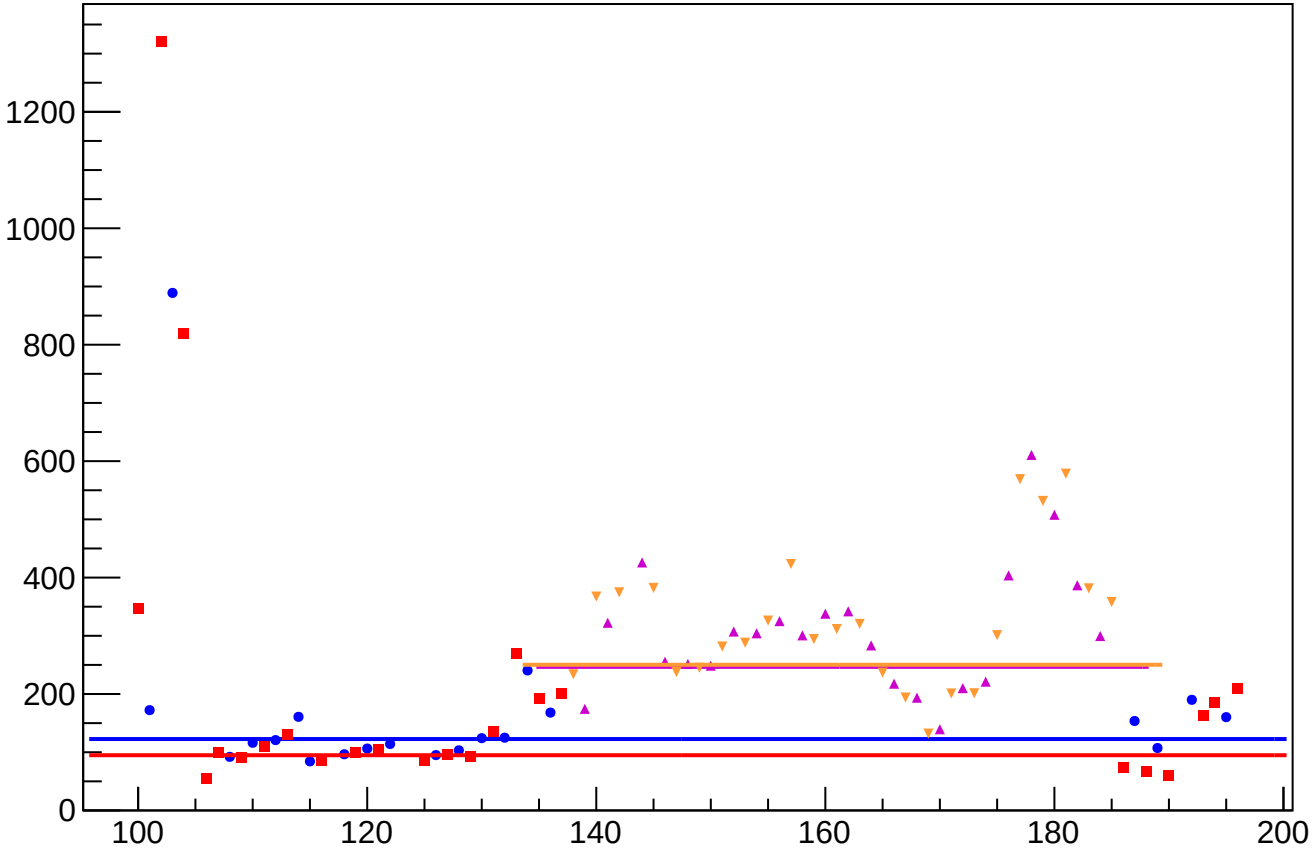
Right: 0.021+/-0.026 $\chi^2$/NDF: 48.8/43

In: 0.055+/-0.035 $\chi^2$/NDF:40.9/42

Out: 0.005+/-0.029 $\chi^2$/NDF:64.3/47

All: 0.025+/-0.022 $\chi^2$/NDF: 106.5/90

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.684+/-0.030 $\chi^2$/NDF: 2003373.3/19

Left Out: 250.247+/-0.045 $\chi^2$/NDF:4353162.7/23

Right Out: 94.876+/-0.023 $\chi^2$/NDF: 4376234.8/23

Left In: 246.630+/-0.044 $\chi^2$/NDF:3773083.4/22

Left: 248.410+/-0.031 $\chi^2$/NDF: 8129595.0/46

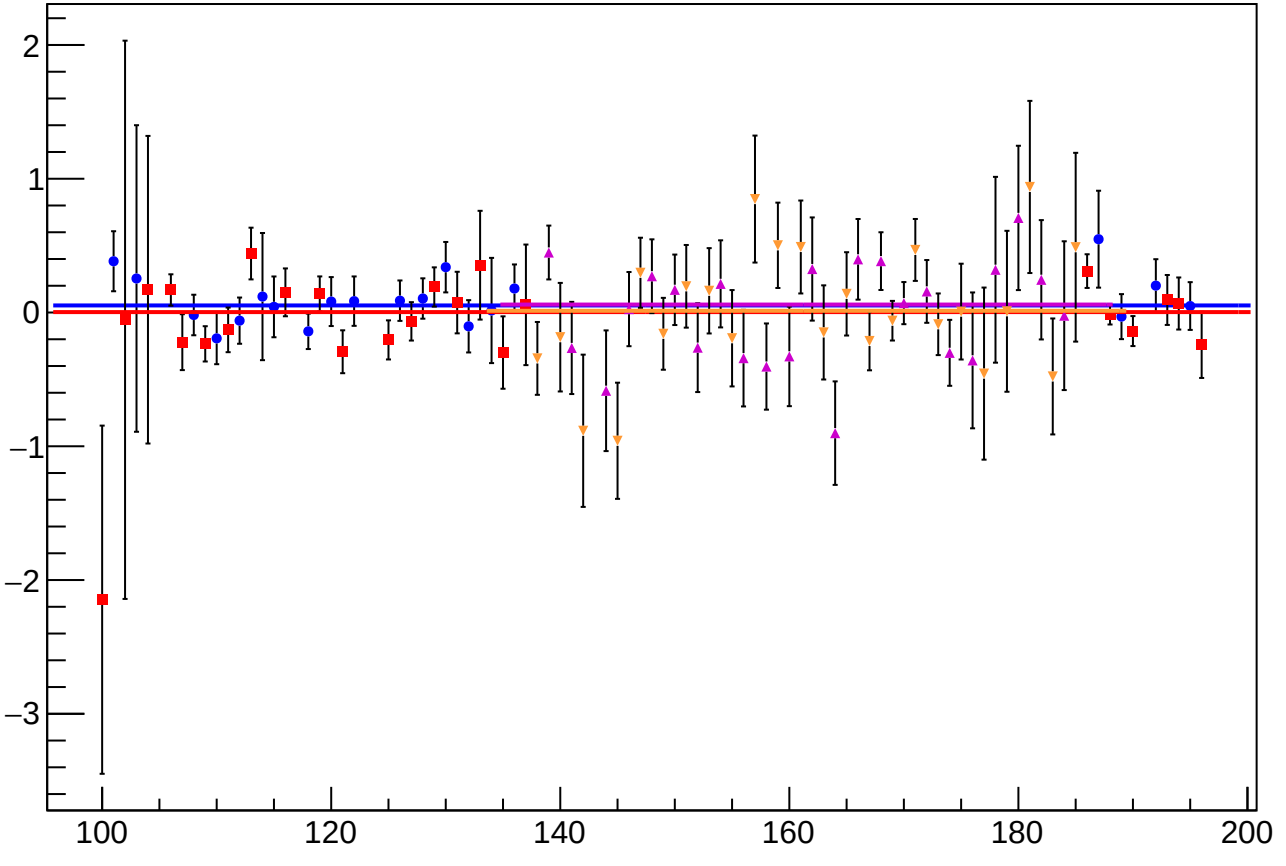
Right: 105.132+/-0.018 $\chi^2$/NDF: 6910395.7/43

In: 162.784+/-0.025 $\chi^2$/NDF:11181727.4/42

Out: 127.971+/-0.021 $\chi^2$/NDF:18300208.5/47

All: 142.058+/-0.016 $\chi^2$/NDF: 30641877.4/90

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.053+/-0.043 $\chi^2$/NDF: 13.0/19

Left Out: 0.013+/-0.063 $\chi^2$/NDF:29.3/23

Right Out: 0.003+/-0.033 $\chi^2$/NDF: 35.0/23

Left In: 0.059+/-0.062 $\chi^2$/NDF:27.9/22

Left: 0.036+/-0.044 $\chi^2$/NDF: 57.5/46

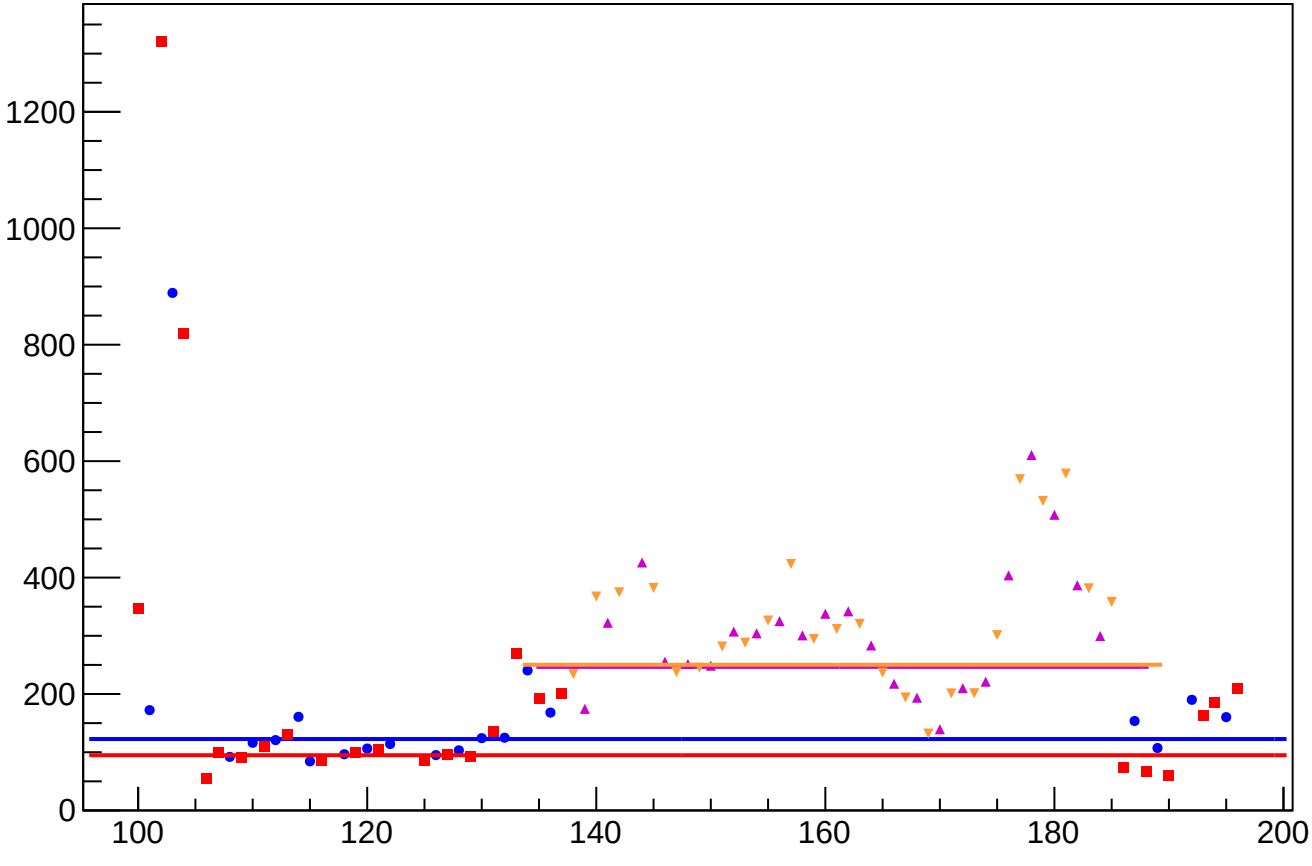
Right: 0.021+/-0.026 $\chi^2$/NDF: 48.8/43

In: 0.055+/-0.035 $\chi^2$/NDF:40.9/42

Out: 0.005+/-0.029 $\chi^2$/NDF:64.3/47

All: 0.025+/-0.022 $\chi^2$/NDF: 106.5/90

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.684+/-0.030 $\chi^2$/NDF: 2003373.3/19

Left Out: 250.247+/-0.045 $\chi^2$/NDF:4353162.7/23

Right Out: 94.876+/-0.023 $\chi^2$/NDF: 4376234.8/23

Left In: 246.630+/-0.044 $\chi^2$/NDF:3773083.4/22

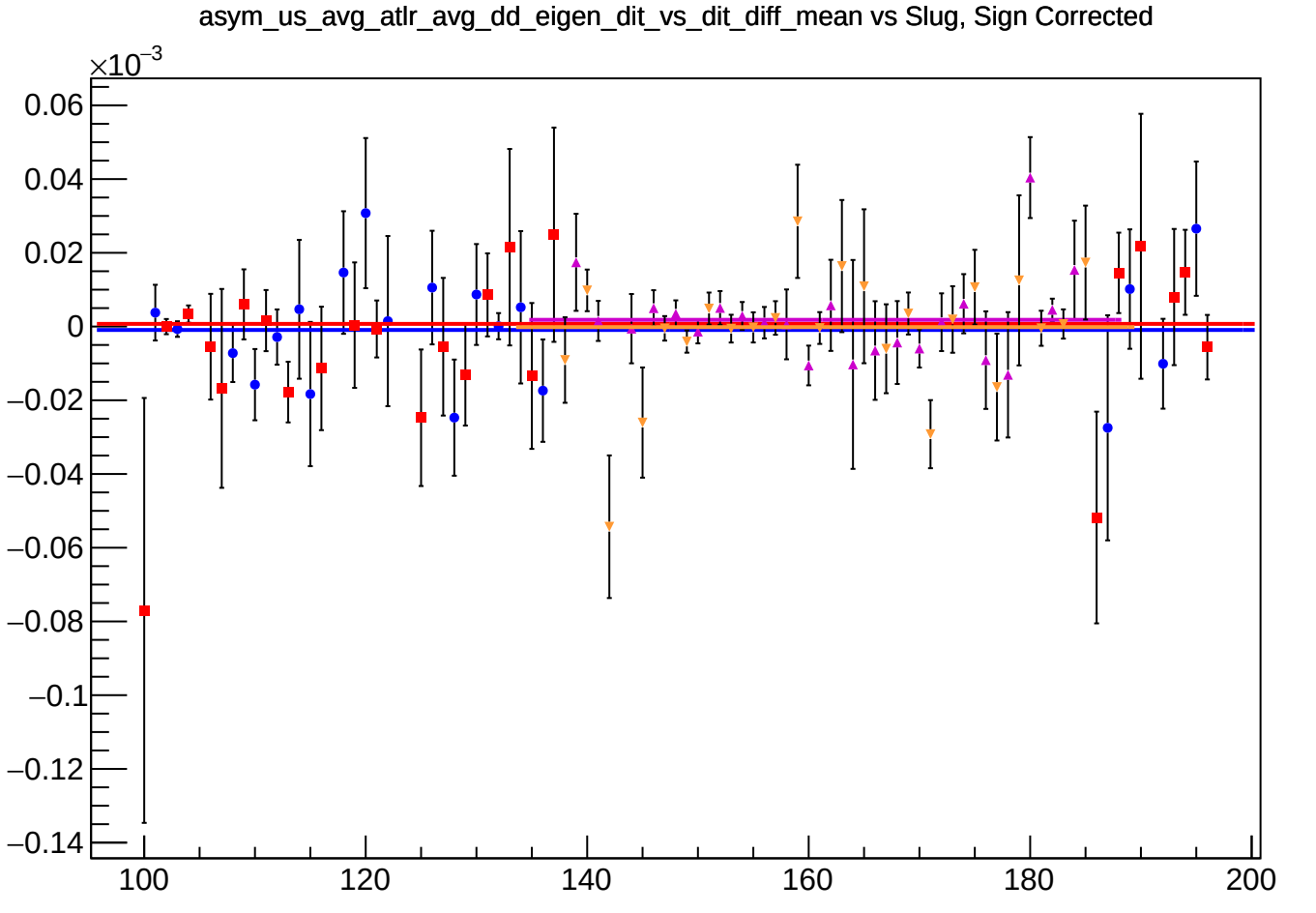
Left: 248.410+/-0.031 $\chi^2$/NDF: 8129595.0/46

Right: 105.132+/-0.018 $\chi^2$/NDF: 6910395.7/43

In: 162.784+/-0.025 $\chi^2$/NDF:11181727.4/42

Out: 127.971+/-0.021 $\chi^2$/NDF:18300208.5/47

All: 142.058+/-0.016 $\chi^2$/NDF: 30641877.4/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:37.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 22.5/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.2/22

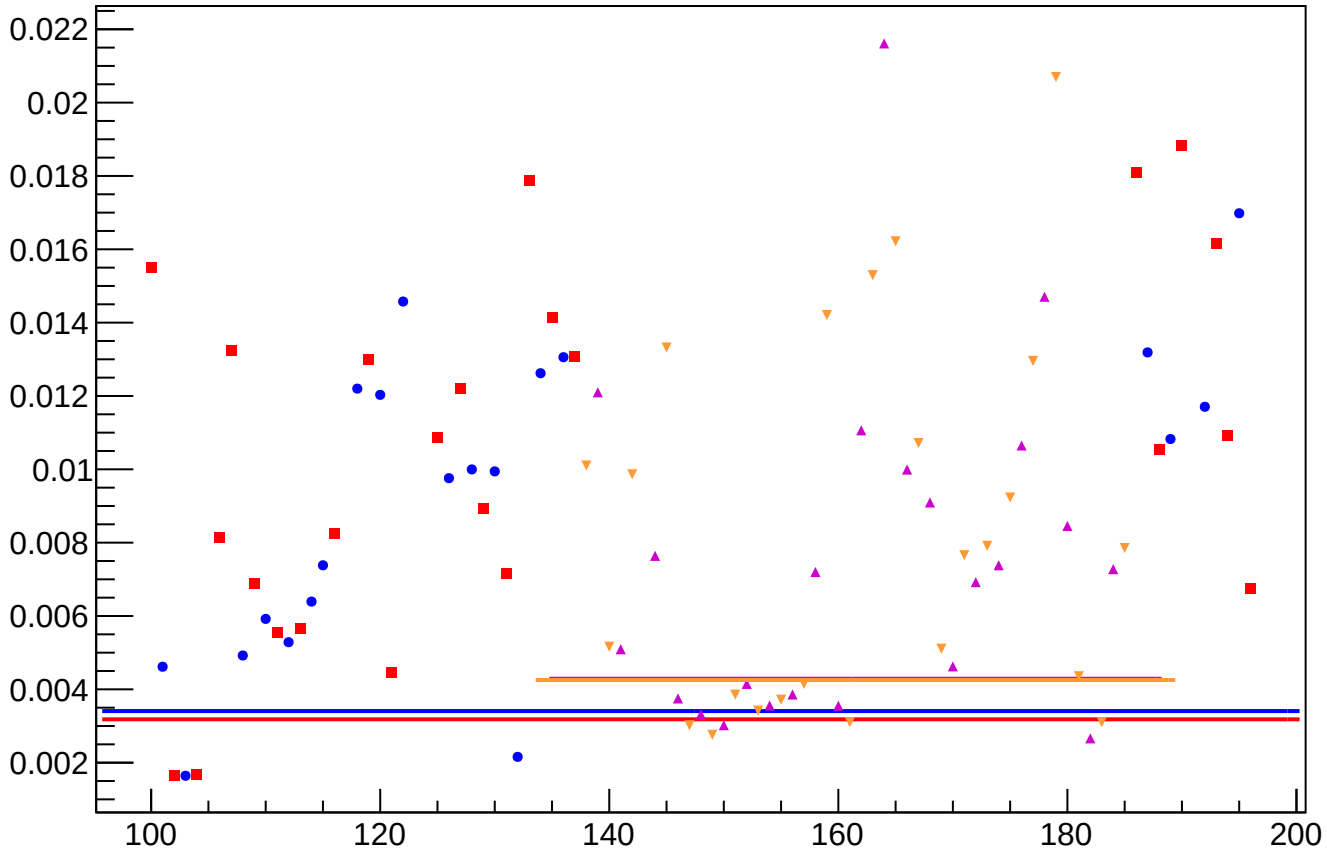
Left: 0.000+/-0.000 $\chi^2$/NDF: 66.8/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.8/43

In: 0.000+/-0.000 $\chi^2$/NDF:46.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:59.9/47

All: 0.000+/-0.000 $\chi^2$/NDF: 107.0/90




Right In: 0.003+/-0.000 $\chi^2$/NDF: 8719053.7/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:8492565.6/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 10975330.8/23

Left In: 0.004+/-0.000 $\chi^2$/NDF:6598609.8/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 15092064.0/46

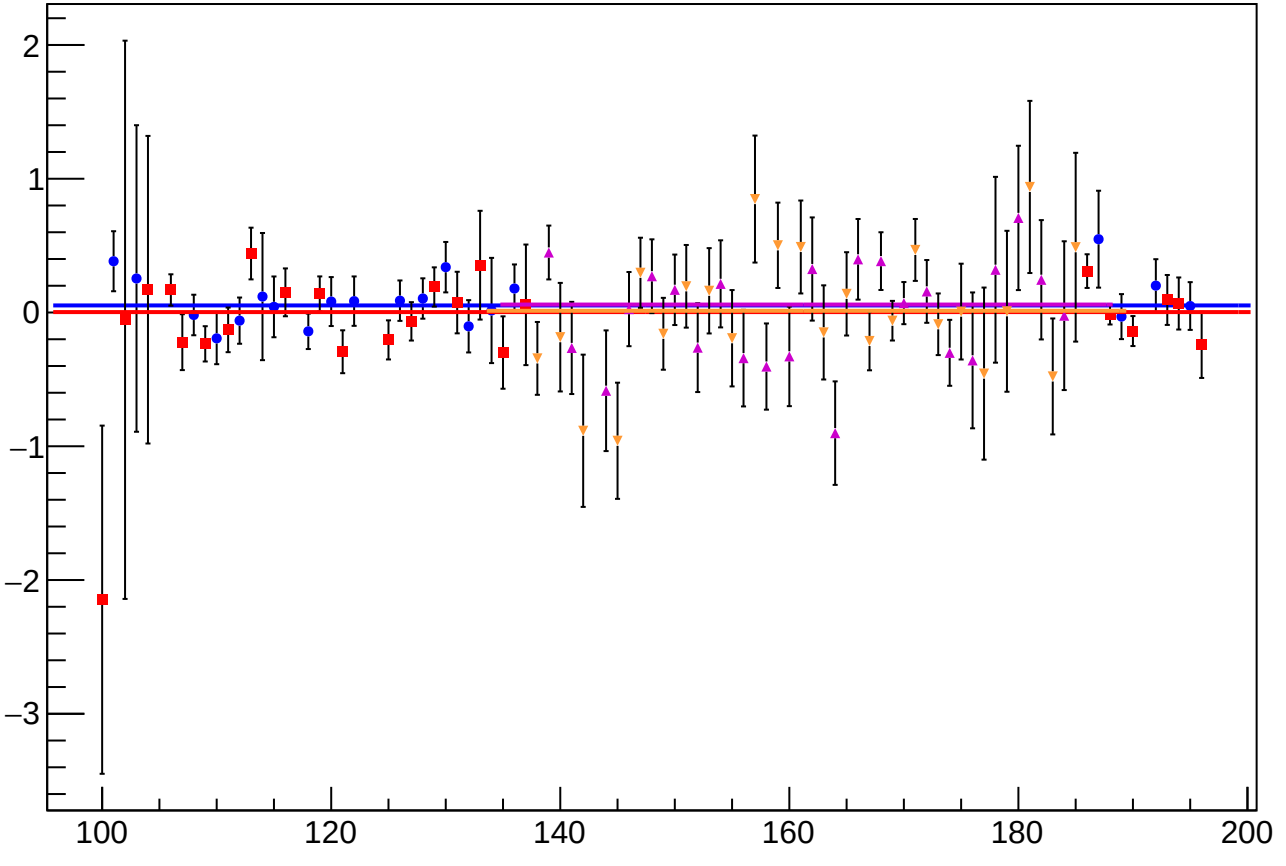
Right: 0.003+/-0.000 $\chi^2$/NDF: 19718278.8/43

In: 0.004+/-0.000 $\chi^2$/NDF:15724809.1/42

Out: 0.004+/-0.000 $\chi^2$/NDF:20187120.8/47

All: 0.004+/-0.000 $\chi^2$/NDF: 35945762.3/90

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.053+/-0.043 $\chi^2$/NDF: 13.0/19

Left Out: 0.013+/-0.063 $\chi^2$/NDF:29.3/23

Right Out: 0.003+/-0.033 $\chi^2$/NDF: 35.0/23

Left In: 0.059+/-0.062 $\chi^2$/NDF:27.9/22

Left: 0.036+/-0.044 $\chi^2$/NDF: 57.5/46

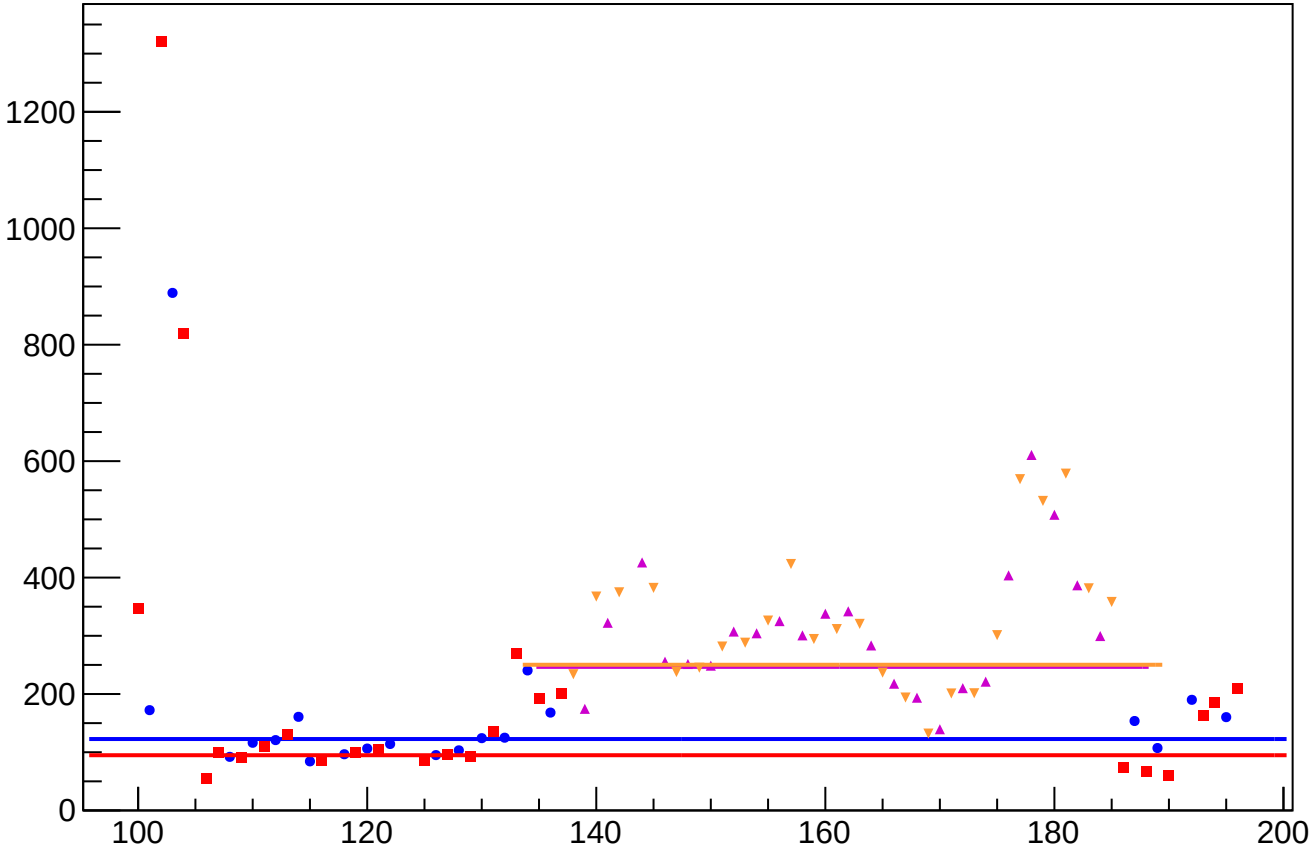
Right: 0.021+/-0.026 $\chi^2$/NDF: 48.8/43

In: 0.055+/-0.035 $\chi^2$/NDF:40.9/42

Out: 0.005+/-0.029 $\chi^2$/NDF:64.3/47

All: 0.025+/-0.022 $\chi^2$/NDF: 106.5/90

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.683+/-0.030 $\chi^2$/NDF: 2003369.9/19

Left Out: 250.248+/-0.045 $\chi^2$/NDF:4353323.9/23

Right Out: 94.872+/-0.023 $\chi^2$/NDF: 4376629.1/23

Left In: 246.632+/-0.044 $\chi^2$/NDF:3773144.3/22

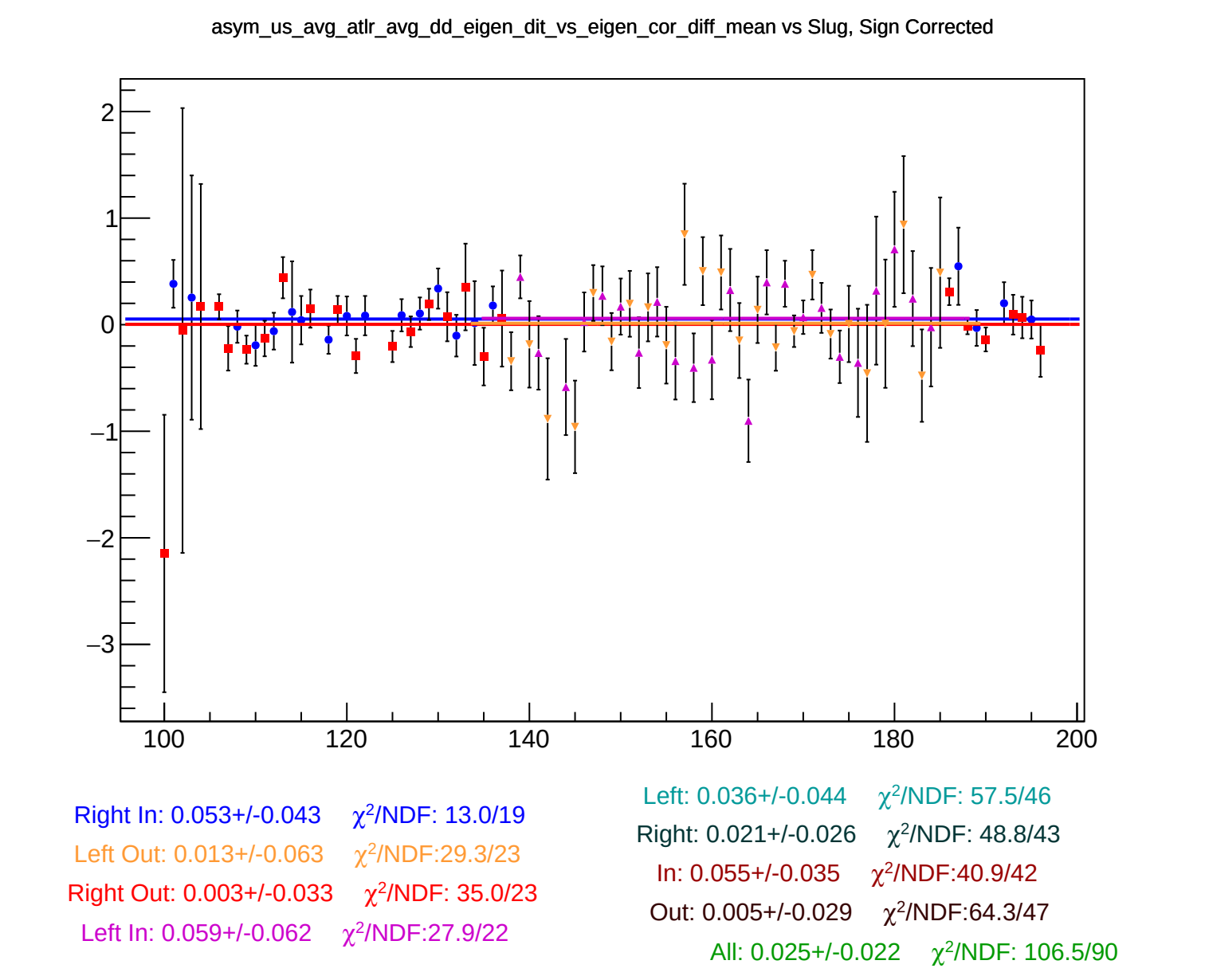
Left: 248.411+/-0.031 $\chi^2$/NDF: 8129814.5/46

Right: 105.128+/-0.018 $\chi^2$/NDF: 6910949.6/43

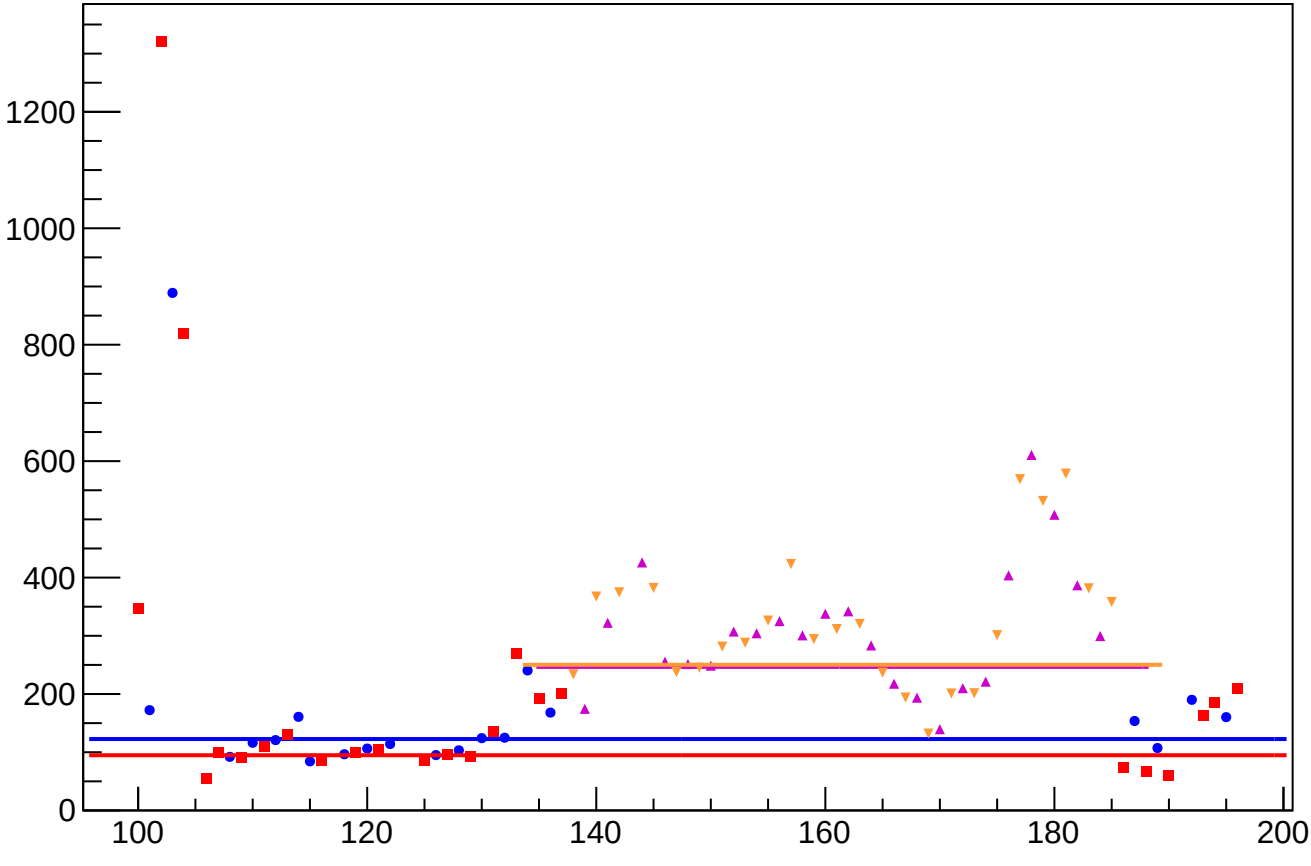
In: 162.783+/-0.025 $\chi^2$/NDF:11181962.0/42

Out: 127.965+/-0.021 $\chi^2$/NDF:18301457.8/47

All: 142.054+/-0.016 $\chi^2$/NDF: 30643709.7/90


asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: 0.053+/-0.043 χ²/NDF: 13.0/19
Left Out: 0.013+/-0.063 χ²/NDF:29.3/23
Right Out: 0.003+/-0.033 χ²/NDF: 35.0/23
Left In: 0.059+/-0.062 χ²/NDF:27.9/22
Left: 0.036+/-0.044 χ²/NDF: 57.5/46
Right: 0.021+/-0.026 χ²/NDF: 48.8/43
In: 0.055+/-0.035 χ²/NDF:40.9/42
Out: 0.005+/-0.029 χ²/NDF:64.3/47
All: 0.025+/-0.022 χ²/NDF: 106.5/90

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 122.683+/-0.030 $\chi^2$/NDF: 2003369.9/19

Left Out: 250.248+/-0.045 $\chi^2$/NDF:4353323.9/23

Right Out: 94.872+/-0.023 $\chi^2$/NDF: 4376629.1/23

Left In: 246.632+/-0.044 $\chi^2$/NDF:3773144.3/22

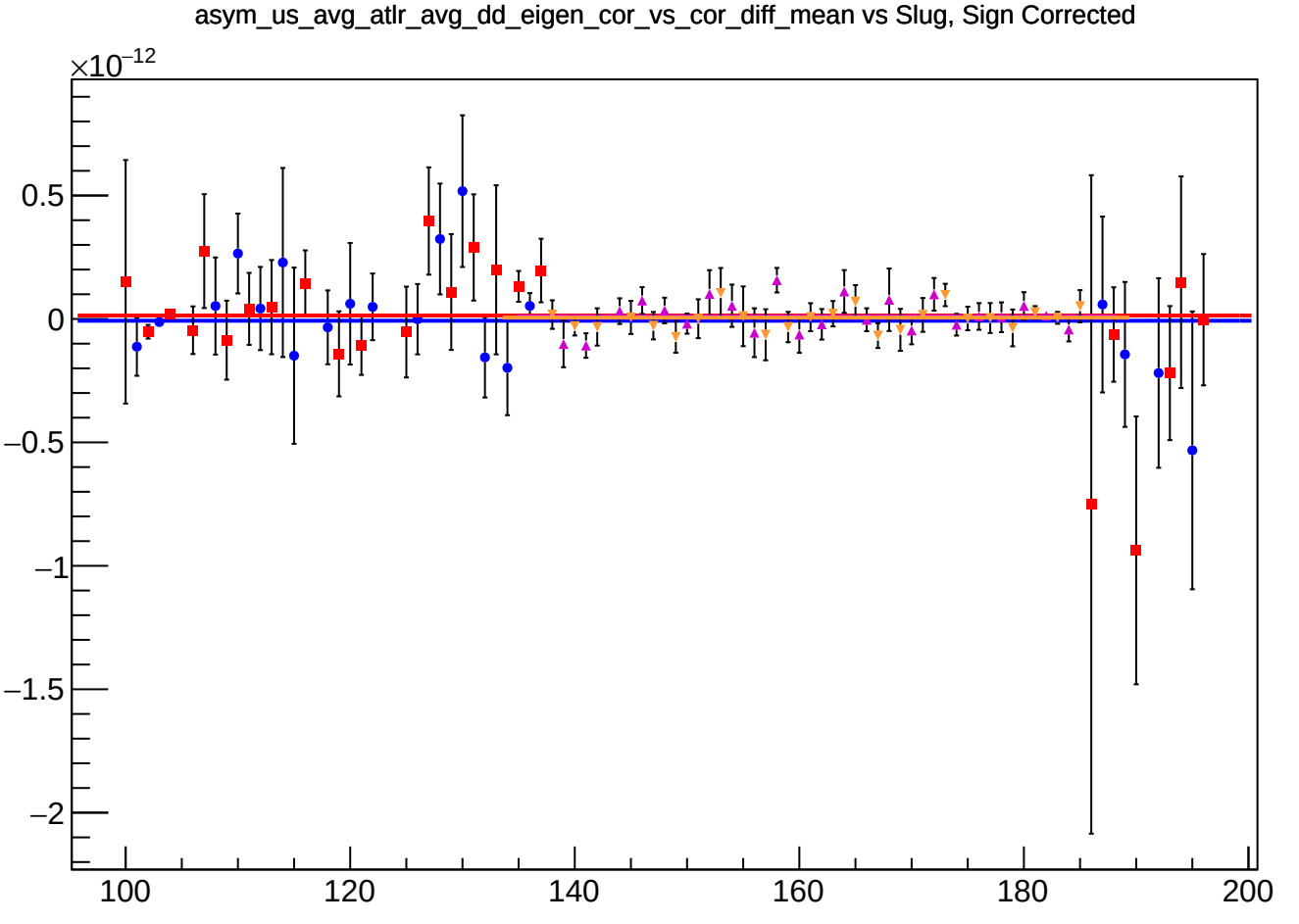
Left: 248.411+/-0.031 $\chi^2$/NDF: 8129814.5/46

Right: 105.128+/-0.018 $\chi^2$/NDF: 6910949.6/43

In: 162.783+/-0.025 $\chi^2$/NDF:11181962.0/42

Out: 127.965+/-0.021 $\chi^2$/NDF:18301457.8/47

All: 142.054+/-0.016 $\chi^2$/NDF: 30643709.7/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:13.8/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.3/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.9/22

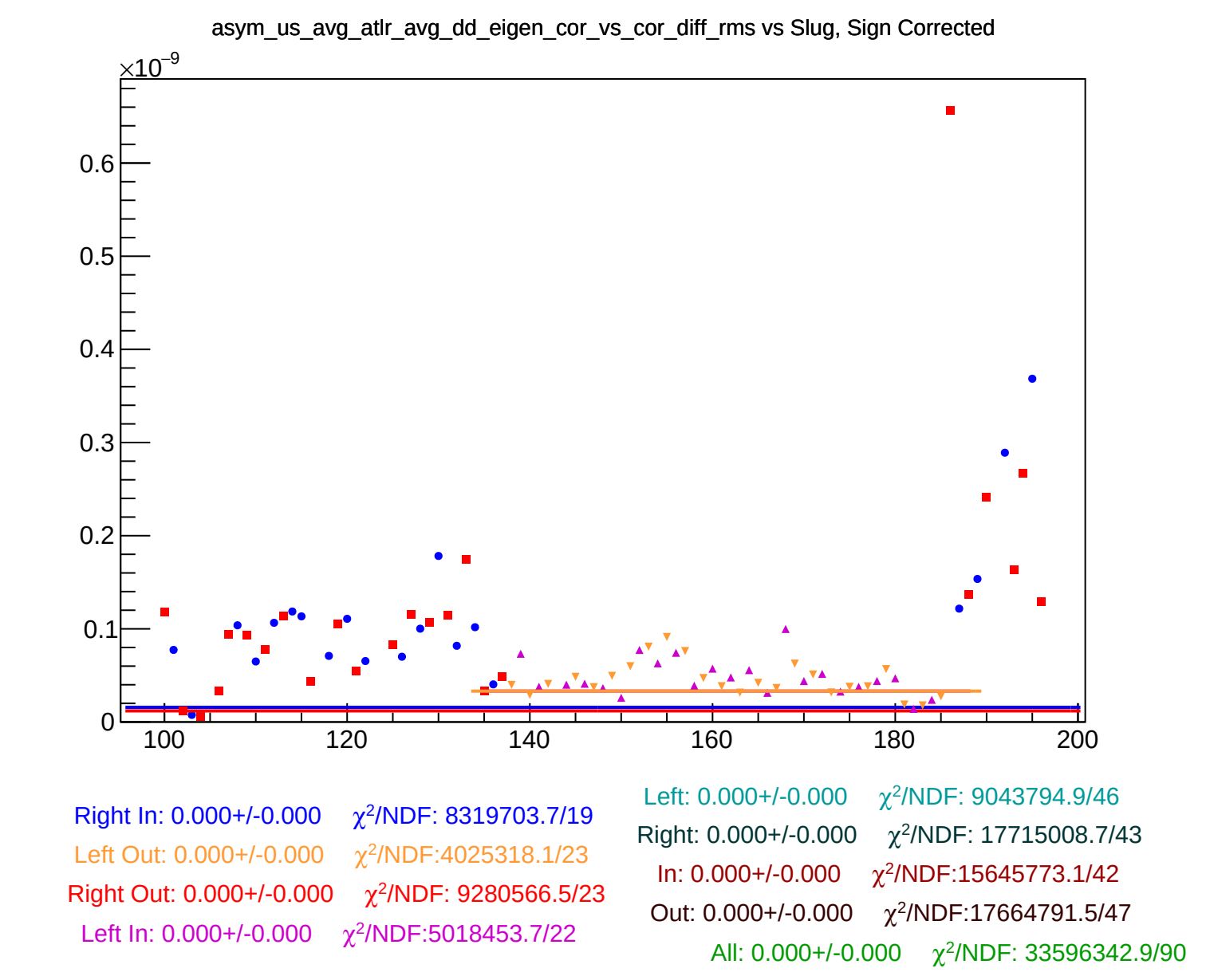
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.8/46

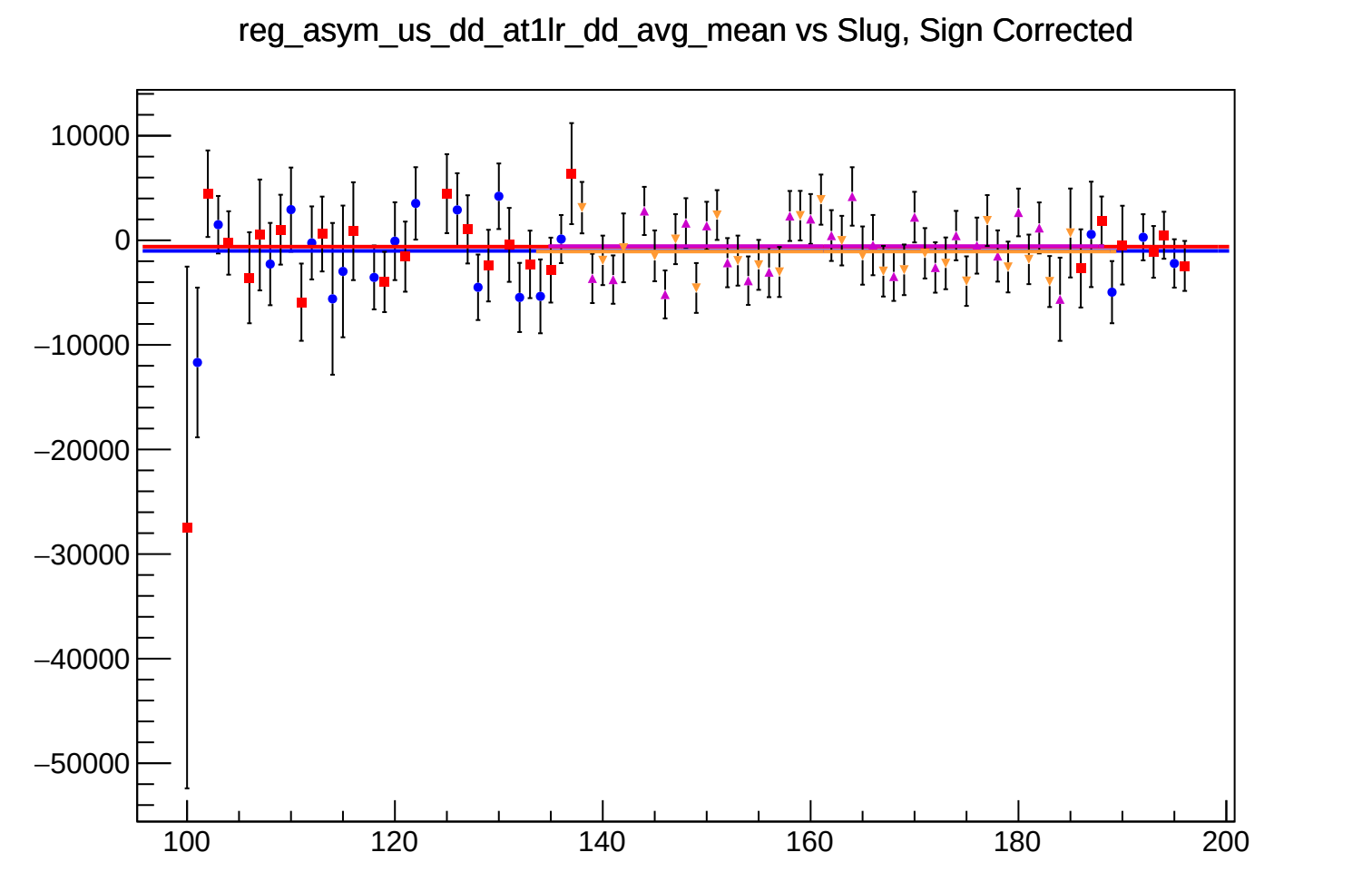
Right: 0.000+/-0.000 $\chi^2$/NDF: 42.6/43

In: 0.000+/-0.000 $\chi^2$/NDF:43.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:40.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 84.4/90


asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 8319703.7/19
Left Out: 0.000+/-0.000 χ²/NDF:4025318.1/23
Right Out: 0.000+/-0.000 χ²/NDF: 9280566.5/23
Left In: 0.000+/-0.000 χ²/NDF:5018453.7/22
Left: 0.000+/-0.000 χ²/NDF: 9043794.9/46
Right: 0.000+/-0.000 χ²/NDF: 17715008.7/43
In: 0.000+/-0.000 χ²/NDF:15645773.1/42
Out: 0.000+/-0.000 χ²/NDF:17664791.5/47
All: 0.000+/-0.000 χ²/NDF: 33596342.9/90




Right In: -1013.756+/-733.534 $\chi^2$/NDF: 18.4/19

Left Out: -1072.863+/-505.534 $\chi^2$/NDF:21.6/23

Right Out: -606.969+/-676.077 $\chi^2$/NDF: 14.7/23

Left In: -557.052+/-509.208 $\chi^2$/NDF:28.7/22

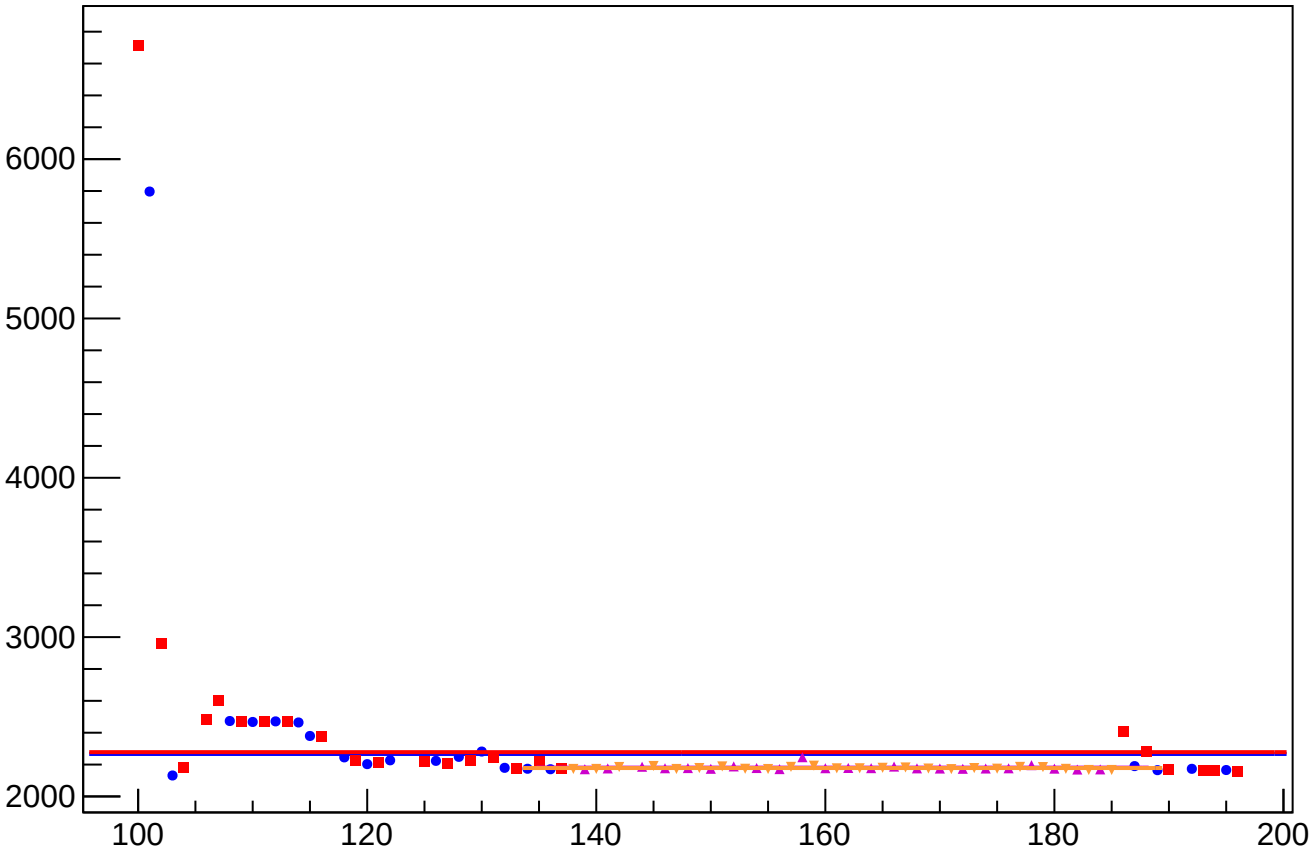
Left: -816.825+/-358.759 $\chi^2$/NDF: 50.8/46

Right: -793.809+/-497.132 $\chi^2$/NDF: 33.3/43

In: -705.566+/-418.299 $\chi^2$/NDF:47.4/42

Out: -905.786+/-404.865 $\chi^2$/NDF:36.5/47

All: -808.943+/-290.916 $\chi^2$/NDF: 84.1/90




Right In: 2266.625+/-0.519 $\chi^2$/NDF: 528534.3/19

Left Out: 2178.244+/-0.357 $\chi^2$/NDF:389.1/23

Right Out: 2278.005+/-0.478 $\chi^2$/NDF: 175547.4/23

Left In: 2180.919+/-0.360 $\chi^2$/NDF:1866.2/22

Left: 2179.572+/-0.254 $\chi^2$/NDF: 2283.2/46

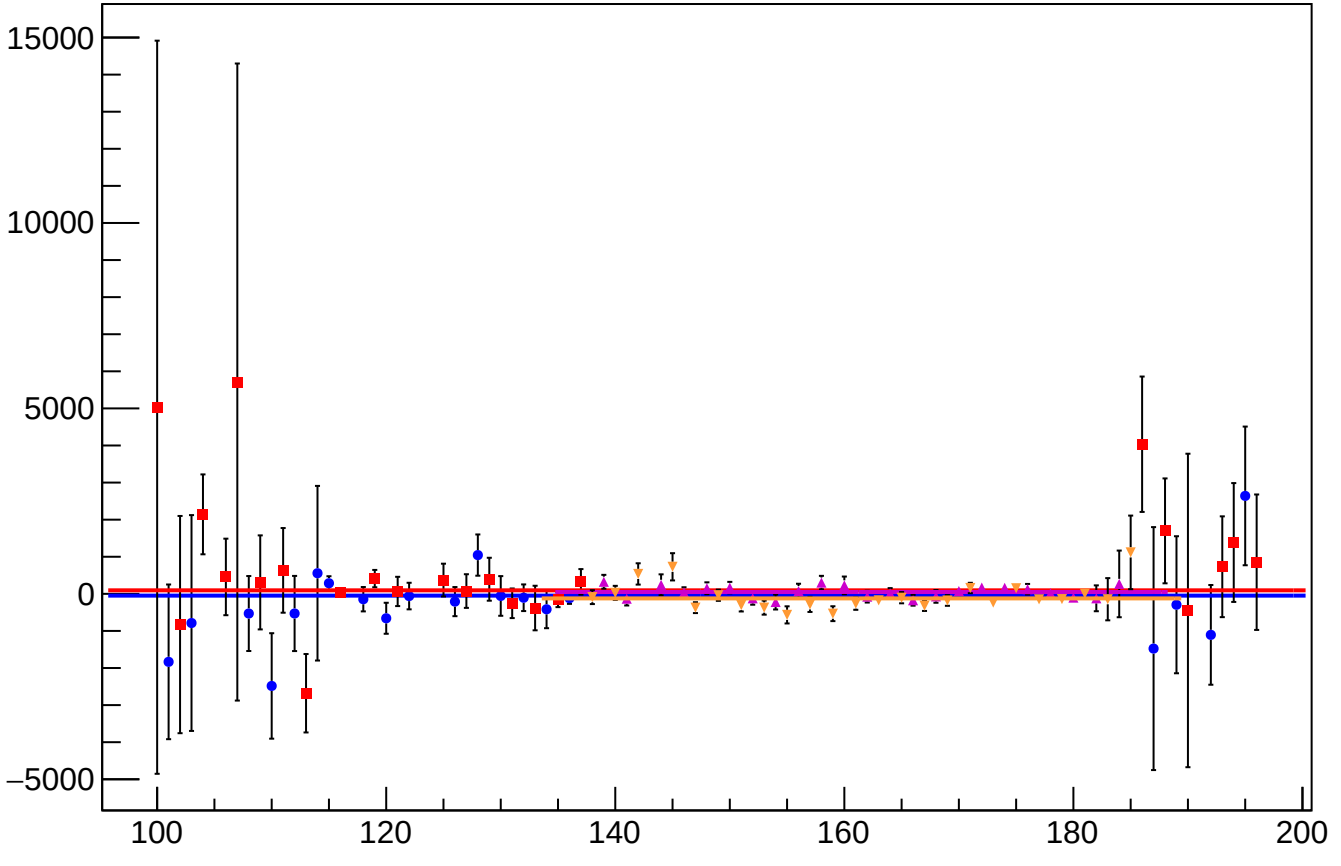
Right: 2272.778+/-0.352 $\chi^2$/NDF: 704342.0/43

In: 2208.789+/-0.296 $\chi^2$/NDF:548824.9/42

Out: 2214.020+/-0.286 $\chi^2$/NDF:203866.9/47

All: 2211.490+/-0.206 $\chi^2$/NDF: 752853.3/90

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -48.105+/-90.457 $\chi^2$/NDF: 17.3/19

Left Out: -123.007+/-31.408 $\chi^2$/NDF:43.8/23

Right Out: 94.747+/-81.806 $\chi^2$/NDF: 24.7/23

Left In: 50.317+/-32.545 $\chi^2$/NDF:18.2/22

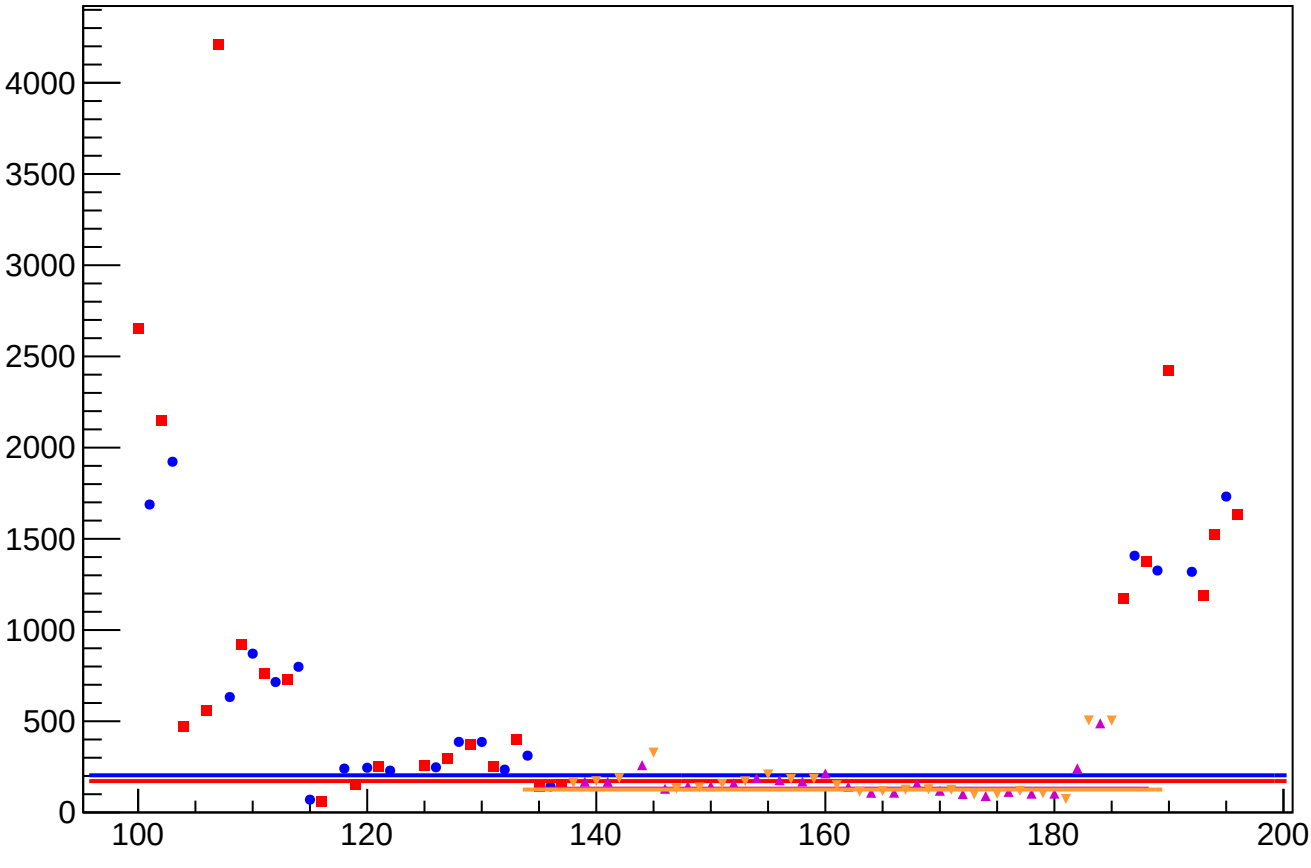
Left: -39.426+/-22.600 $\chi^2$/NDF: 76.7/46

Right: 30.477+/-60.674 $\chi^2$/NDF: 43.3/43

In: 39.037+/-30.623 $\chi^2$/NDF:36.6/42

Out: -95.033+/-29.321 $\chi^2$/NDF:74.7/47

All: -30.909+/-21.179 $\chi^2$/NDF: 121.2/90




Right In: 203.740+/-0.064 $\chi^2$/NDF: 8822920.9/19

Left Out: 125.506+/-0.022 $\chi^2$/NDF:3942746.1/23

Right Out: 171.935+/-0.058 $\chi^2$/NDF: 12679250.5/23

Left In: 130.436+/-0.023 $\chi^2$/NDF:2679692.6/22

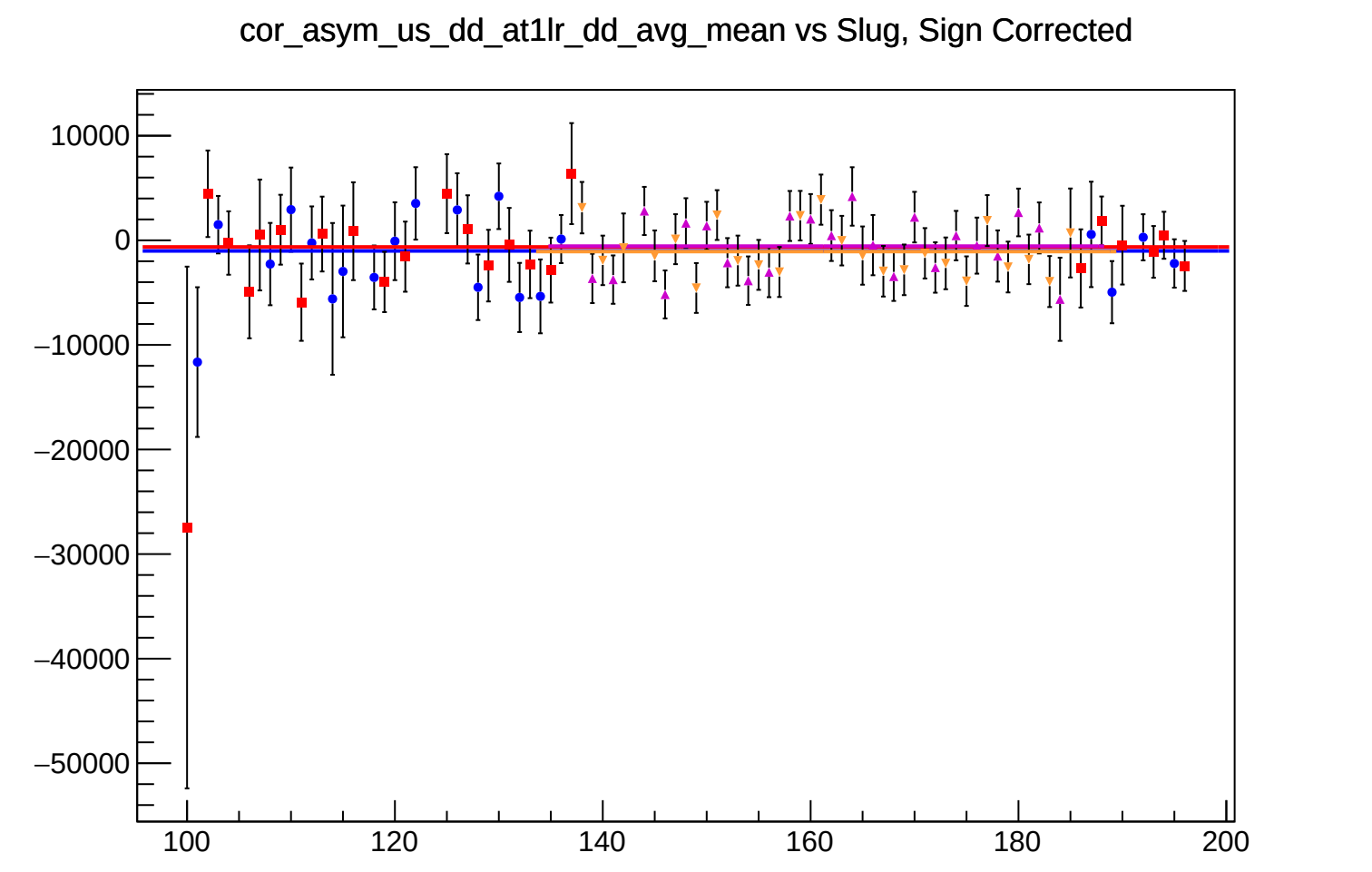
Left: 127.884+/-0.016 $\chi^2$/NDF: 6646201.0/46

Right: 186.244+/-0.043 $\chi^2$/NDF: 21638188.0/43

In: 138.837+/-0.022 $\chi^2$/NDF:12665494.5/42

Out: 131.471+/-0.021 $\chi^2$/NDF:17183438.1/47

All: 134.994+/-0.015 $\chi^2$/NDF: 29909313.8/90




Right In: -1013.102+/-733.534 $\chi^2$/NDF: 18.4/19

Left Out: -1072.795+/-505.534 $\chi^2$/NDF:21.6/23

Right Out: -635.310+/-676.416 $\chi^2$/NDF: 15.1/23

Left In: -557.079+/-509.208 $\chi^2$/NDF:28.7/22

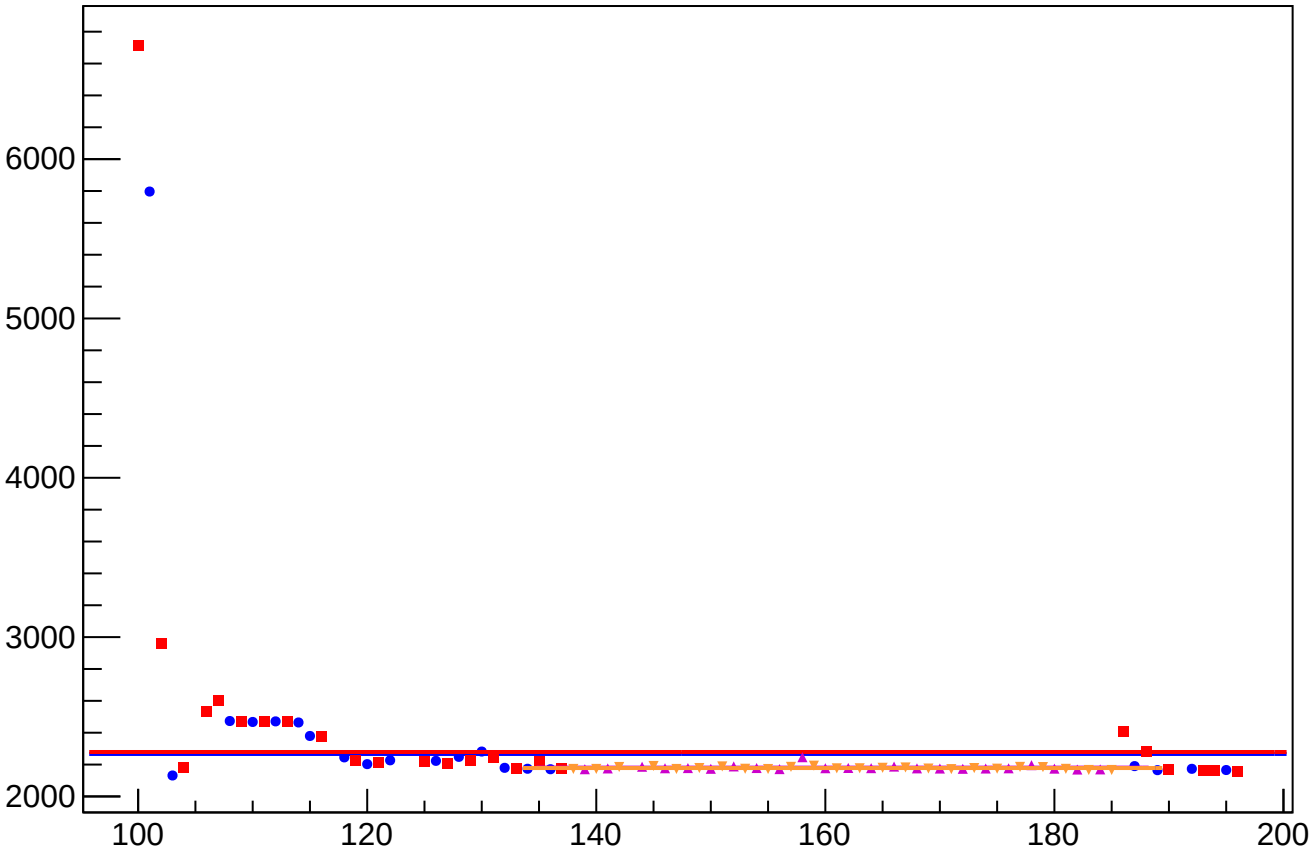
Left: -816.804+/-358.759 $\chi^2$/NDF: 50.8/46

Right: -808.926+/-497.267 $\chi^2$/NDF: 33.7/43

In: -705.372+/-418.299 $\chi^2$/NDF:47.4/42

Out: -916.007+/-404.938 $\chi^2$/NDF:37.0/47

All: -814.107+/-290.943 $\chi^2$/NDF: 84.5/90




Right In: 2266.625+/-0.519 $\chi^2$/NDF: 528534.6/19

Left Out: 2178.244+/-0.357 $\chi^2$/NDF:389.1/23

Right Out: 2278.973+/-0.478 $\chi^2$/NDF: 177732.1/23

Left In: 2180.919+/-0.360 $\chi^2$/NDF:1866.2/22

Left: 2179.572+/-0.254 $\chi^2$/NDF: 2283.1/46

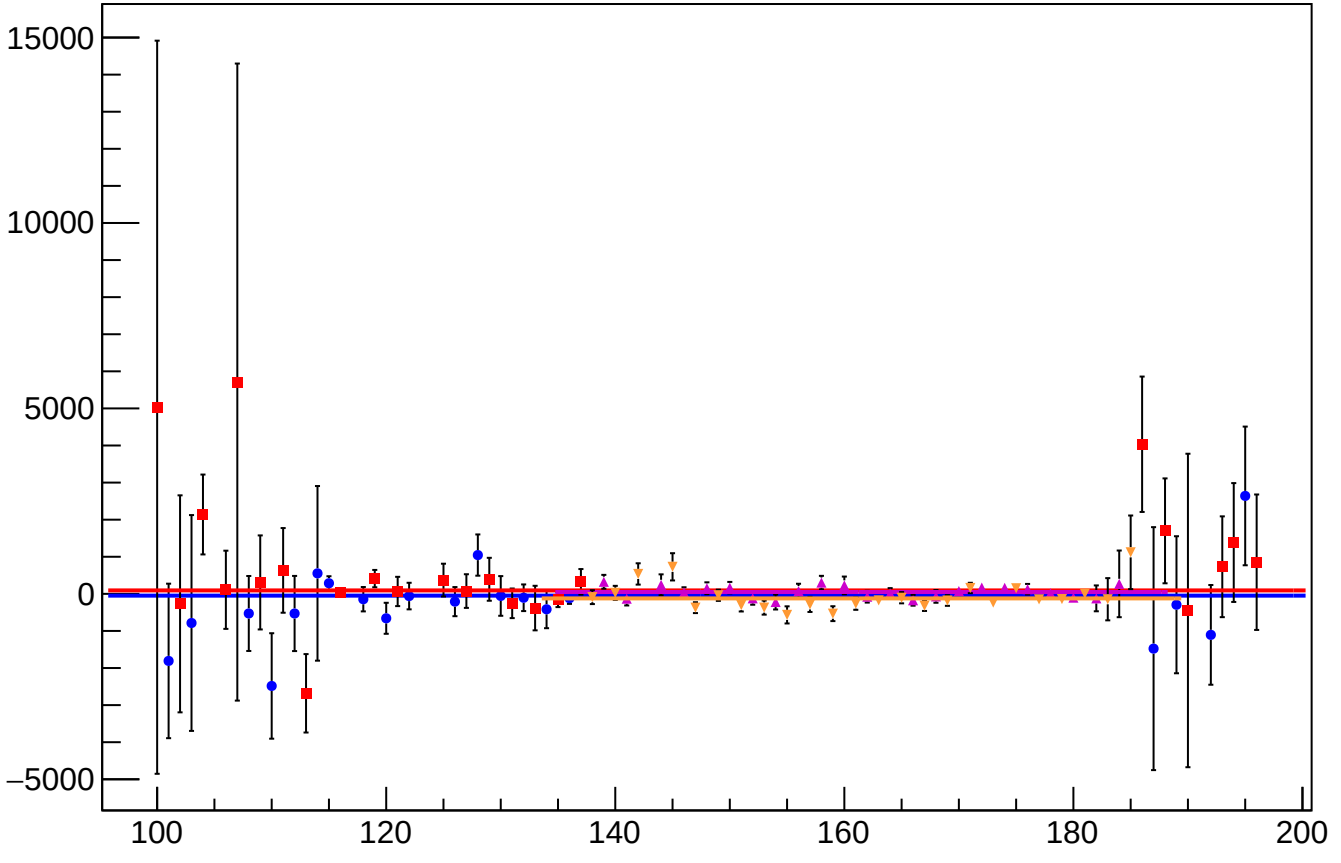
Right: 2273.298+/-0.352 $\chi^2$/NDF: 706573.0/43

In: 2208.789+/-0.296 $\chi^2$/NDF:548825.2/42

Out: 2214.344+/-0.286 $\chi^2$/NDF:206578.2/47

All: 2211.657+/-0.206 $\chi^2$/NDF: 755585.4/90

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs Slug, Sign Corrected




Right In: -48.138+/-90.463 $\chi^2$/NDF: 17.3/19

Left Out: -122.928+/-31.408 $\chi^2$/NDF:43.8/23

Right Out: 92.744+/-81.746 $\chi^2$/NDF: 24.5/23

Left In: 50.209+/-32.548 $\chi^2$/NDF:18.3/22

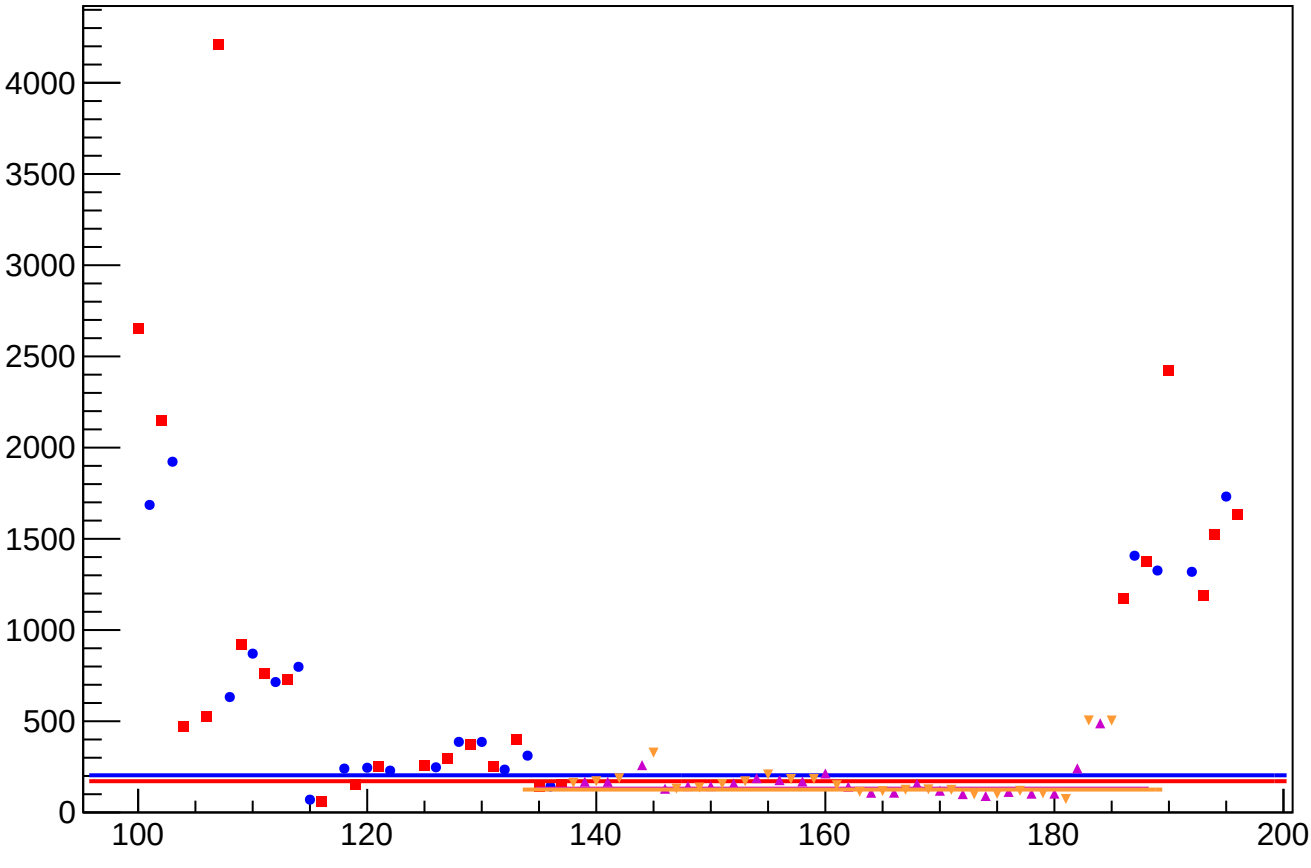
Left: -39.445+/-22.601 $\chi^2$/NDF: 76.7/46

Right: 29.416+/-60.651 $\chi^2$/NDF: 43.1/43

In: 38.937+/-30.626 $\chi^2$/NDF:36.6/42

Out: -95.186+/-29.318 $\chi^2$/NDF:74.3/47

All: -31.049+/-21.178 $\chi^2$/NDF: 120.9/90




Right In: 203.766+/-0.064 $\chi^2$/NDF: 8821648.4/19

Left Out: 125.503+/-0.022 $\chi^2$/NDF:3943570.9/23

Right Out: 171.361+/-0.058 $\chi^2$/NDF: 12639399.7/23

Left In: 130.451+/-0.023 $\chi^2$/NDF:2679365.4/22

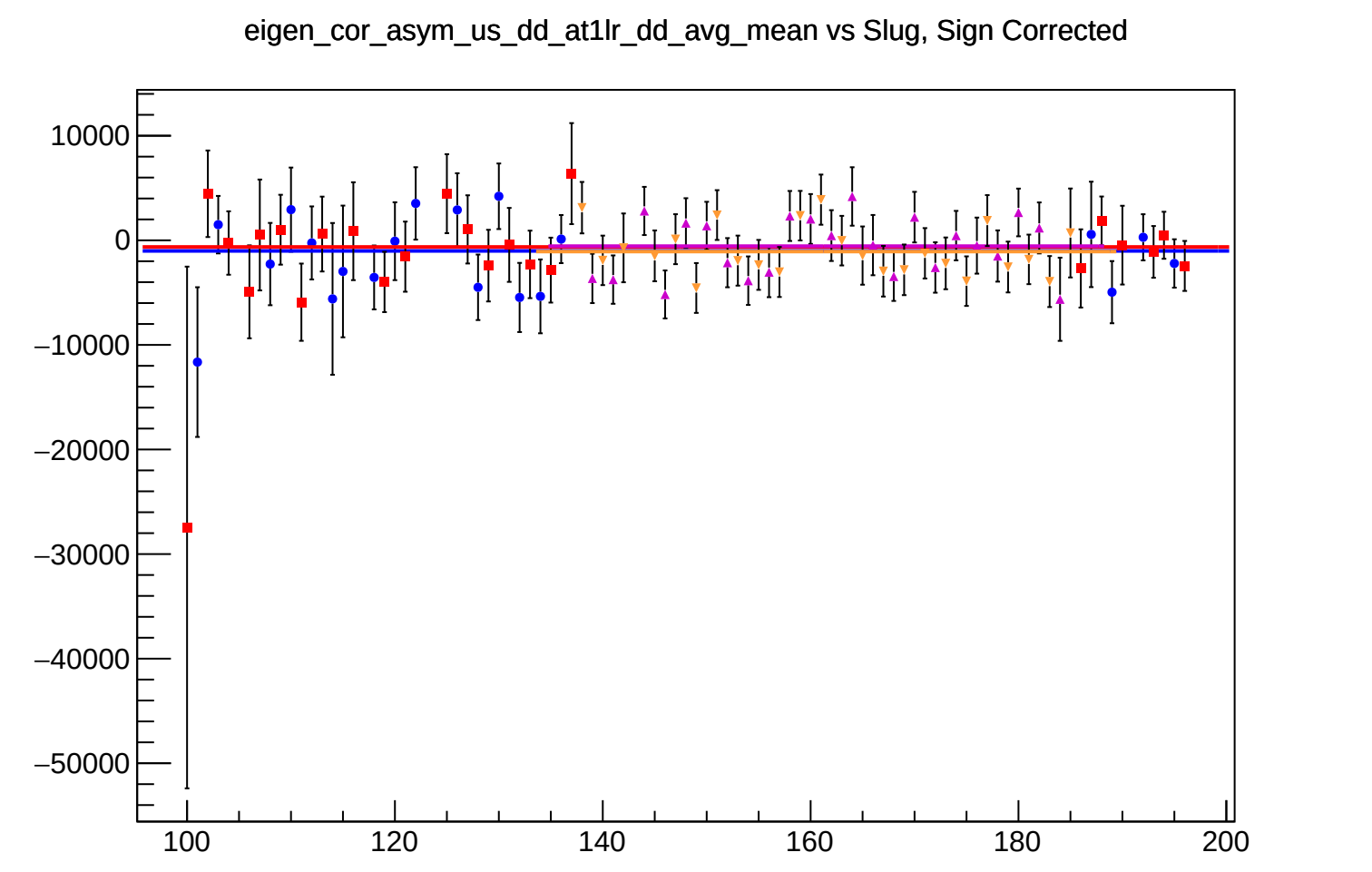
Left: 127.889+/-0.016 $\chi^2$/NDF: 6646874.7/46

Right: 185.927+/-0.043 $\chi^2$/NDF: 21602318.7/43

In: 138.854+/-0.022 $\chi^2$/NDF:12664086.6/42

Out: 131.401+/-0.021 $\chi^2$/NDF:17131429.8/47

All: 134.965+/-0.015 $\chi^2$/NDF: 29857312.7/90




Right In: -1013.102+/-733.534 $\chi^2$/NDF: 18.4/19

Left Out: -1072.795+/-505.534 $\chi^2$/NDF:21.6/23

Right Out: -635.310+/-676.416 $\chi^2$/NDF: 15.1/23

Left In: -557.079+/-509.208 $\chi^2$/NDF:28.7/22

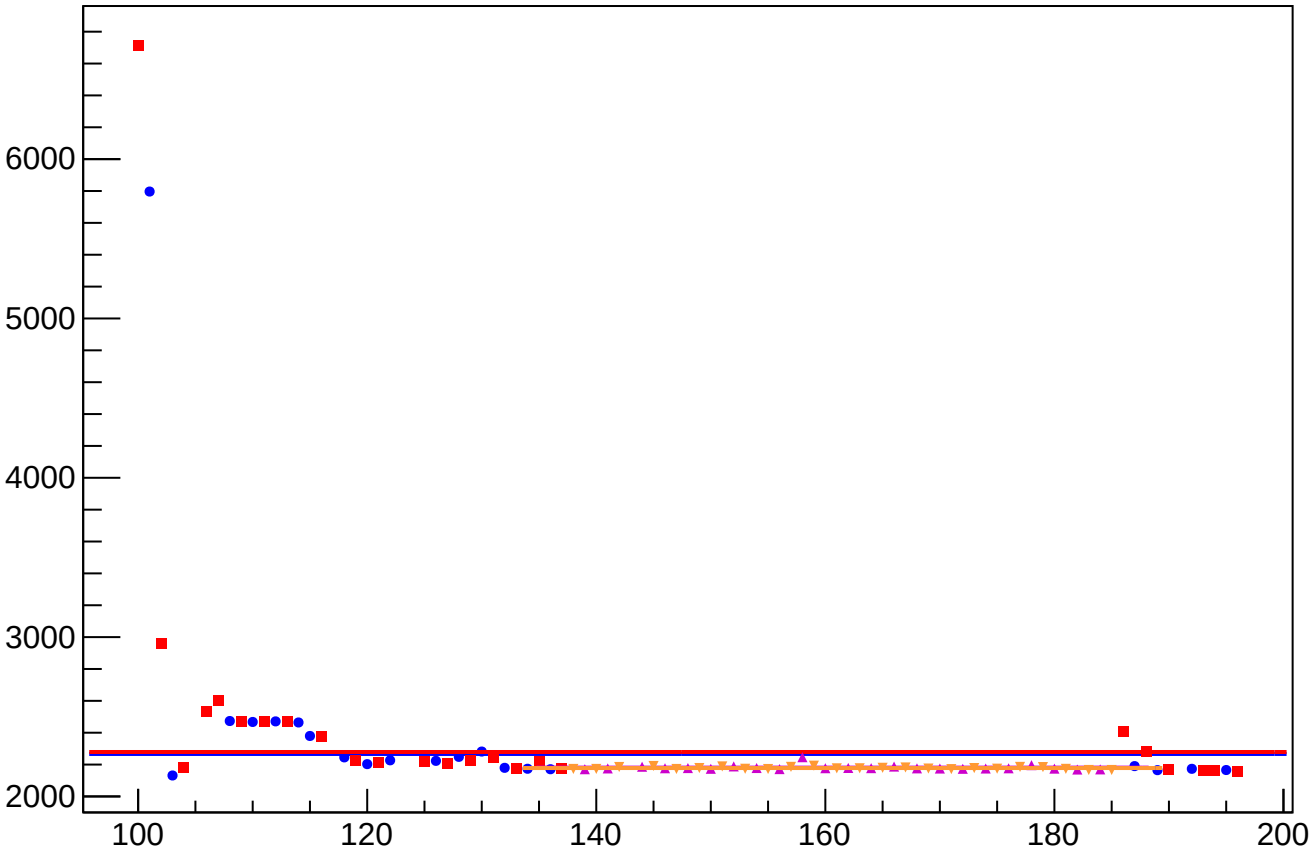
Left: -816.804+/-358.759 $\chi^2$/NDF: 50.8/46

Right: -808.926+/-497.267 $\chi^2$/NDF: 33.7/43

In: -705.372+/-418.299 $\chi^2$/NDF:47.4/42

Out: -916.007+/-404.938 $\chi^2$/NDF:37.0/47

All: -814.107+/-290.943 $\chi^2$/NDF: 84.5/90




Right In: 2266.625+/-0.519 $\chi^2$/NDF: 528534.6/19

Left Out: 2178.244+/-0.357 $\chi^2$/NDF:389.1/23

Right Out: 2278.973+/-0.478 $\chi^2$/NDF: 177732.1/23

Left In: 2180.919+/-0.360 $\chi^2$/NDF:1866.2/22

Left: 2179.572+/-0.254 $\chi^2$/NDF: 2283.1/46

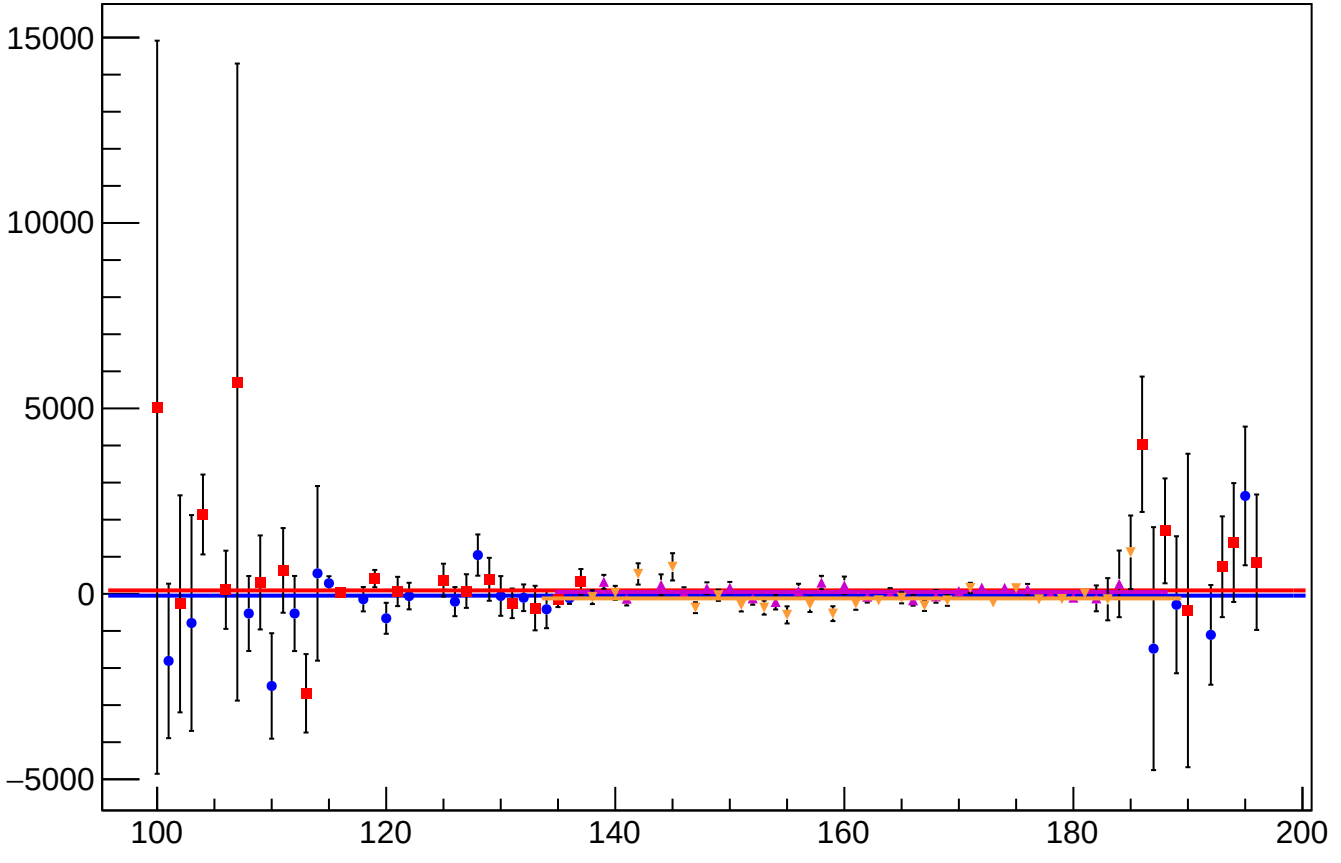
Right: 2273.298+/-0.352 $\chi^2$/NDF: 706573.0/43

In: 2208.789+/-0.296 $\chi^2$/NDF:548825.2/42

Out: 2214.344+/-0.286 $\chi^2$/NDF:206578.2/47

All: 2211.657+/-0.206 $\chi^2$/NDF: 755585.4/90

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -48.138+/-90.463 $\chi^2$/NDF: 17.3/19

Left Out: -122.928+/-31.408 $\chi^2$/NDF:43.8/23

Right Out: 92.744+/-81.746 $\chi^2$/NDF: 24.5/23

Left In: 50.209+/-32.548 $\chi^2$/NDF:18.3/22

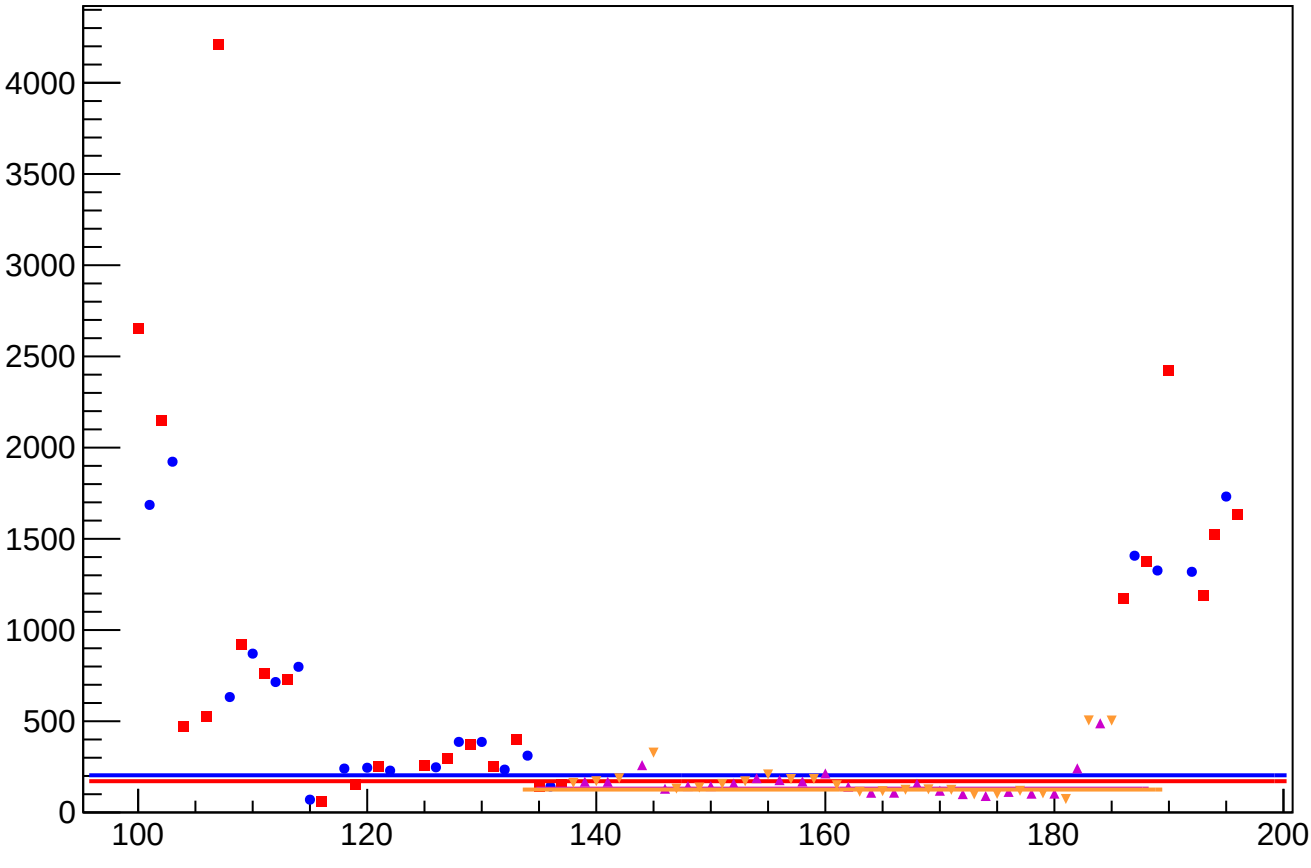
Left: -39.445+/-22.601 $\chi^2$/NDF: 76.7/46

Right: 29.416+/-60.651 $\chi^2$/NDF: 43.1/43

In: 38.937+/-30.626 $\chi^2$/NDF:36.6/42

Out: -95.186+/-29.318 $\chi^2$/NDF:74.3/47

All: -31.049+/-21.178 $\chi^2$/NDF: 120.9/90




Right In: 203.766+/-0.064 $\chi^2$/NDF: 8821648.4/19

Left Out: 125.503+/-0.022 $\chi^2$/NDF:3943570.9/23

Right Out: 171.361+/-0.058 $\chi^2$/NDF: 12639399.7/23

Left In: 130.451+/-0.023 $\chi^2$/NDF:2679365.4/22

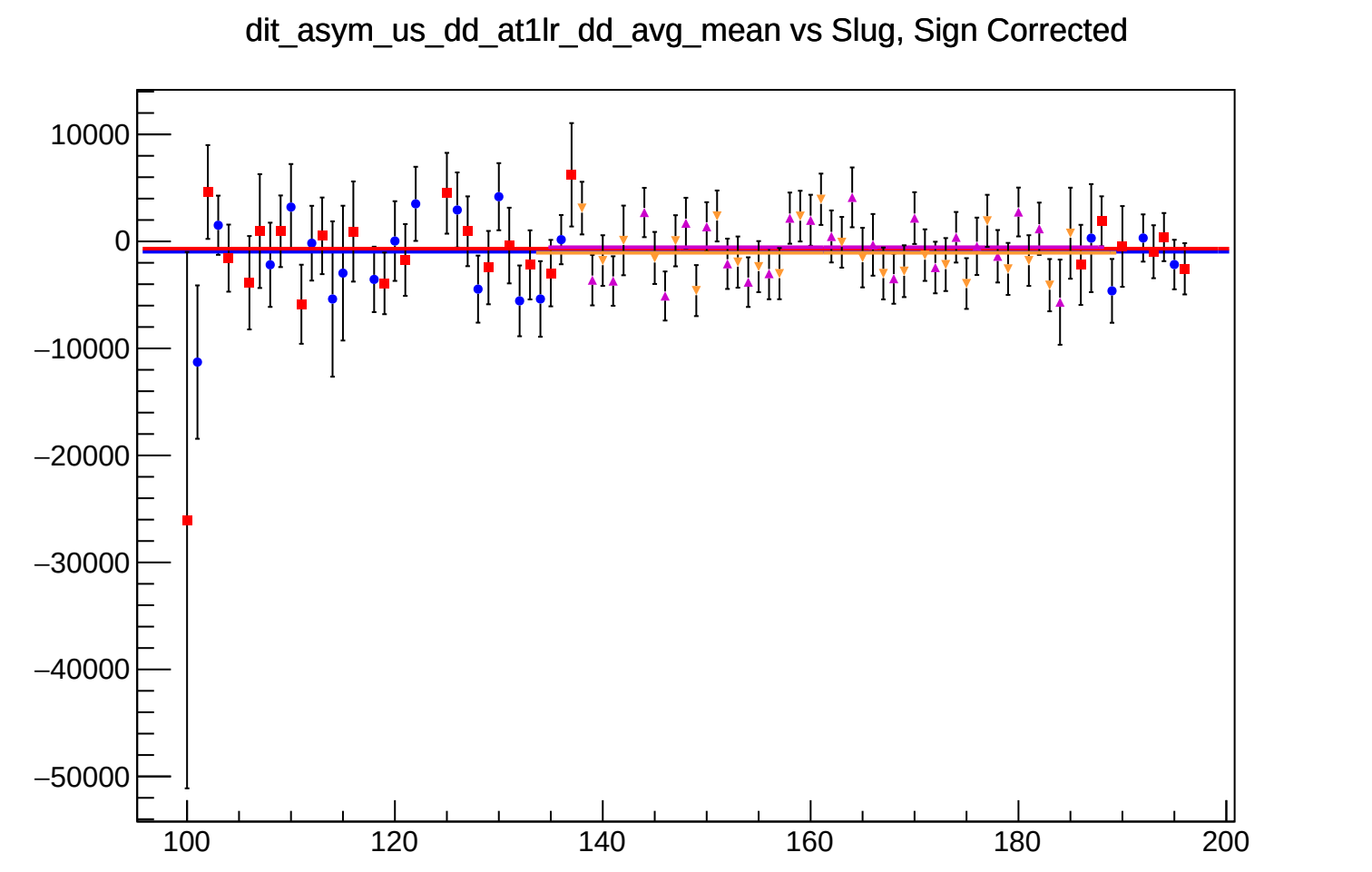
Left: 127.889+/-0.016 $\chi^2$/NDF: 6646874.7/46

Right: 185.927+/-0.043 $\chi^2$/NDF: 21602318.7/43

In: 138.854+/-0.022 $\chi^2$/NDF:12664086.6/42

Out: 131.401+/-0.021 $\chi^2$/NDF:17131429.8/47

All: 134.965+/-0.015 $\chi^2$/NDF: 29857312.7/90




Right In: -963.531+/-734.437 $\chi^2$/NDF: 18.1/19

Left Out: -1062.372+/-505.627 $\chi^2$/NDF:21.9/23

Right Out: -678.672+/-678.722 $\chi^2$/NDF: 14.4/23

Left In: -544.260+/-509.433 $\chi^2$/NDF:27.9/22

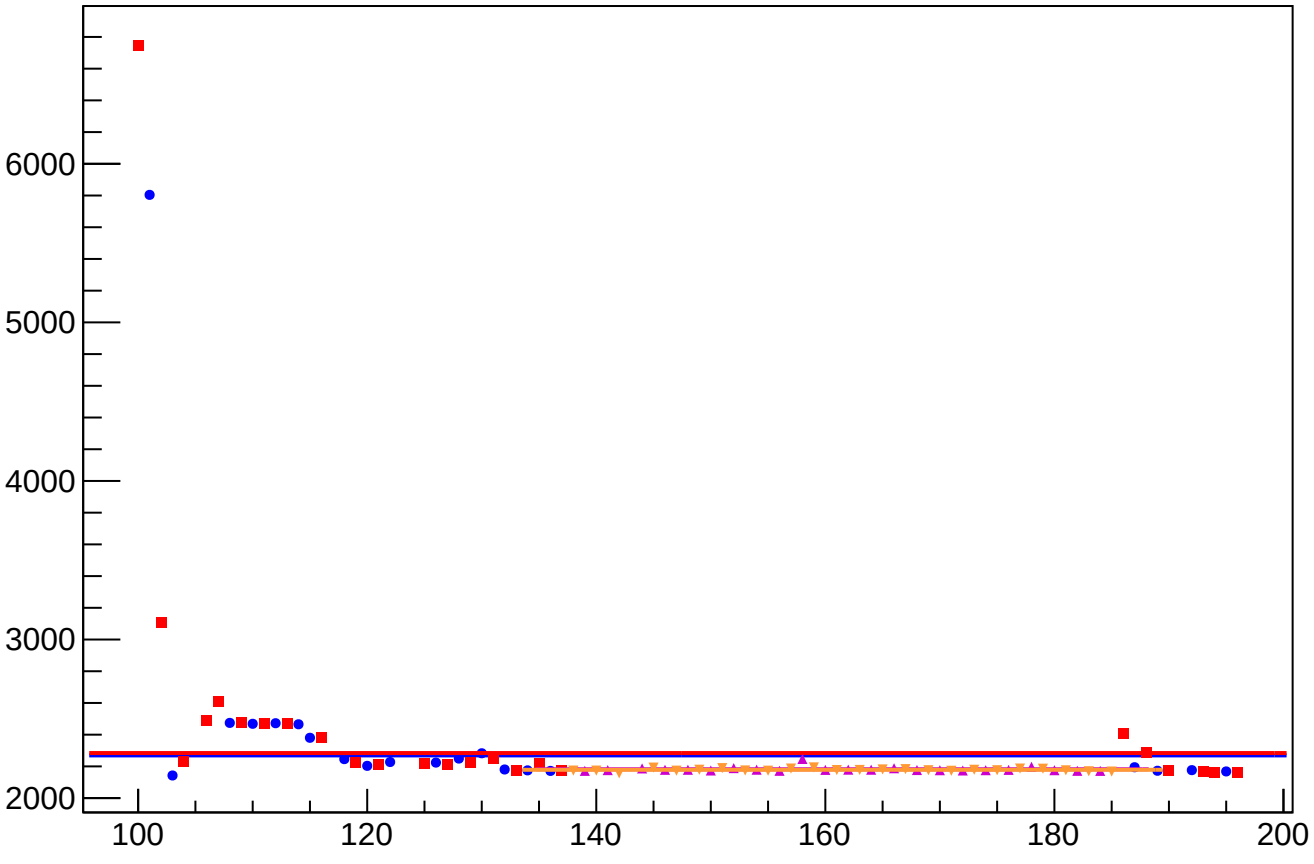
Left: -805.259+/-358.870 $\chi^2$/NDF: 50.3/46

Right: -809.888+/-498.463 $\chi^2$/NDF: 32.6/43

In: -680.457+/-418.591 $\chi^2$/NDF:46.2/42

Out: -925.428+/-405.478 $\chi^2$/NDF:36.5/47

All: -806.839+/-291.242 $\chi^2$/NDF: 82.9/90




Right In: 2269.255+/-0.519 $\chi^2$/NDF: 527731.2/19

Left Out: 2178.503+/-0.358 $\chi^2$/NDF:456.1/23

Right Out: 2284.150+/-0.480 $\chi^2$/NDF: 192553.3/23

Left In: 2181.882+/-0.360 $\chi^2$/NDF:1838.2/22

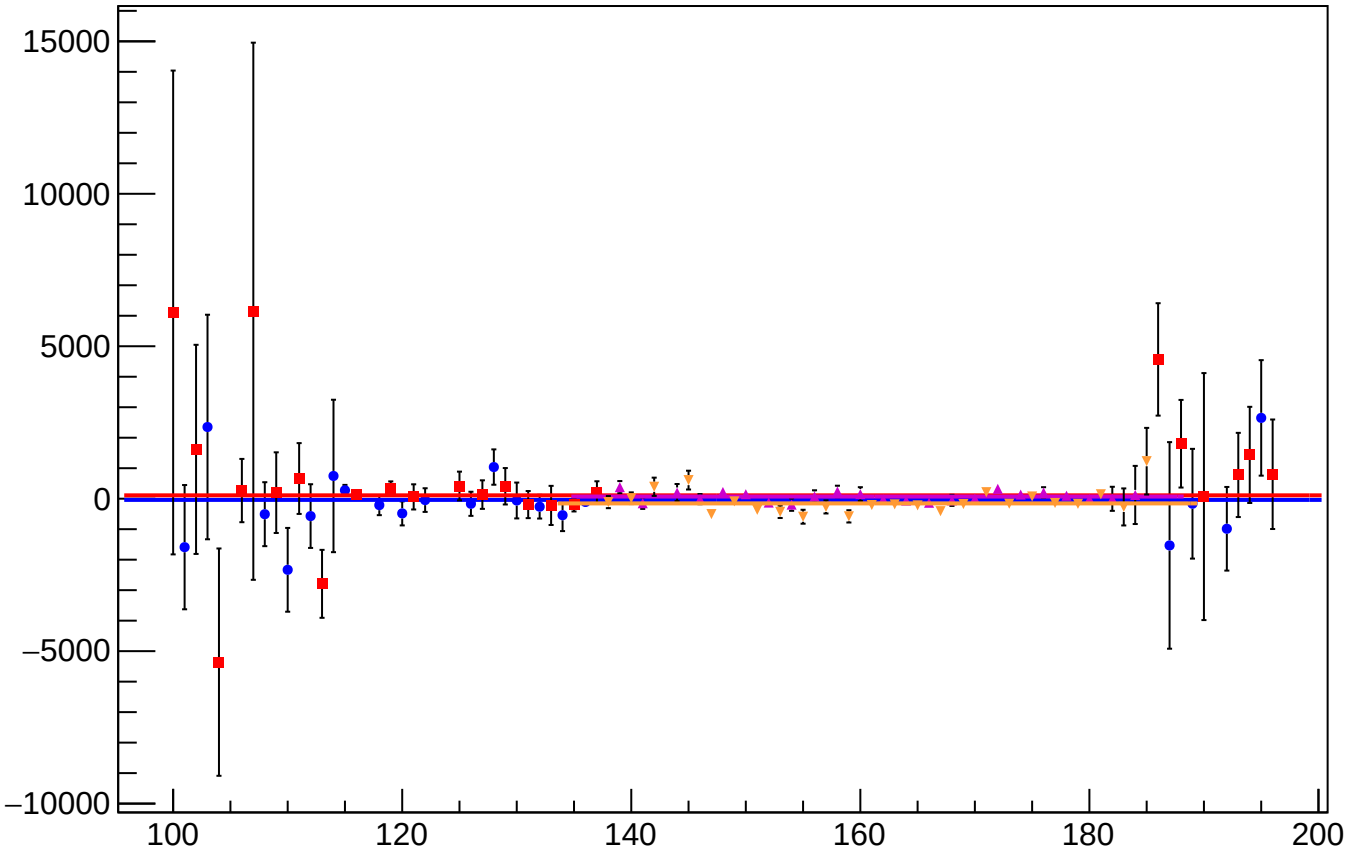
Left: 2180.180+/-0.254 $\chi^2$/NDF: 2338.6/46

Right: 2277.289+/-0.352 $\chi^2$/NDF: 720728.2/43

In: 2210.265+/-0.296 $\chi^2$/NDF:548680.1/42

Out: 2216.209+/-0.287 $\chi^2$/NDF:224172.4/47

All: 2213.332+/-0.206 $\chi^2$/NDF: 773060.6/90




Right In: -39.459+/-91.937 $\chi^2$/NDF: 16.7/19

Left Out: -154.725+/-34.061 $\chi^2$/NDF:47.3/23

Right Out: 110.297+/-85.433 $\chi^2$/NDF: 23.4/23

Left In: 70.142+/-34.204 $\chi^2$/NDF:18.9/22

Left: -42.765+/-24.135 $\chi^2$/NDF: 87.9/46

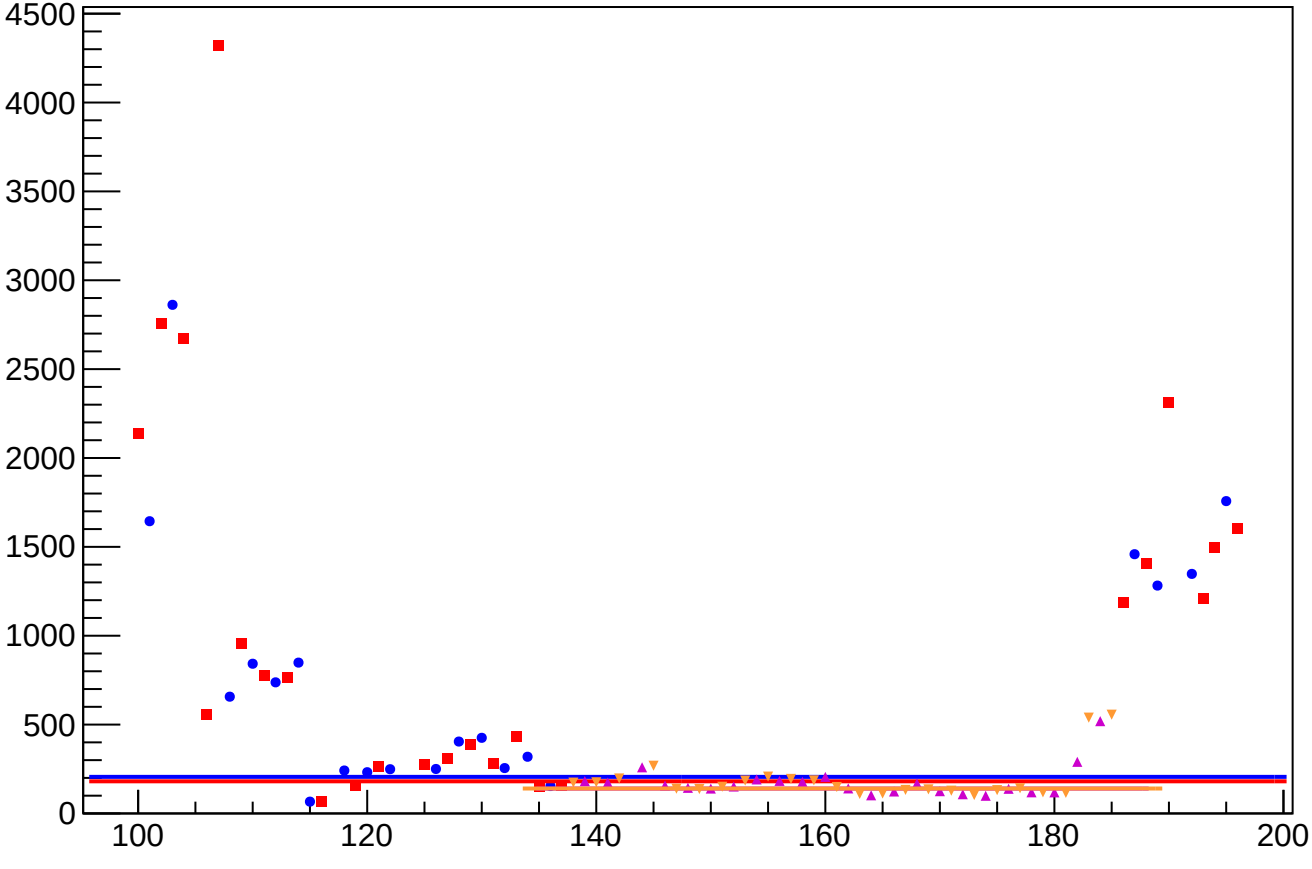
Right: 40.903+/-62.583 $\chi^2$/NDF: 41.5/43

In: 56.816+/-32.058 $\chi^2$/NDF:36.9/42

Out: -118.378+/-31.639 $\chi^2$/NDF:79.0/47

All: -31.933+/-22.519 $\chi^2$/NDF: 131.0/90

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 205.902+/-0.065 $\chi^2$/NDF: 9372543.4/19

Left Out: 140.319+/-0.024 $\chi^2$/NDF:2760284.0/23

Right Out: 180.849+/-0.060 $\chi^2$/NDF: 13521909.4/23

Left In: 139.979+/-0.024 $\chi^2$/NDF:2412455.4/22

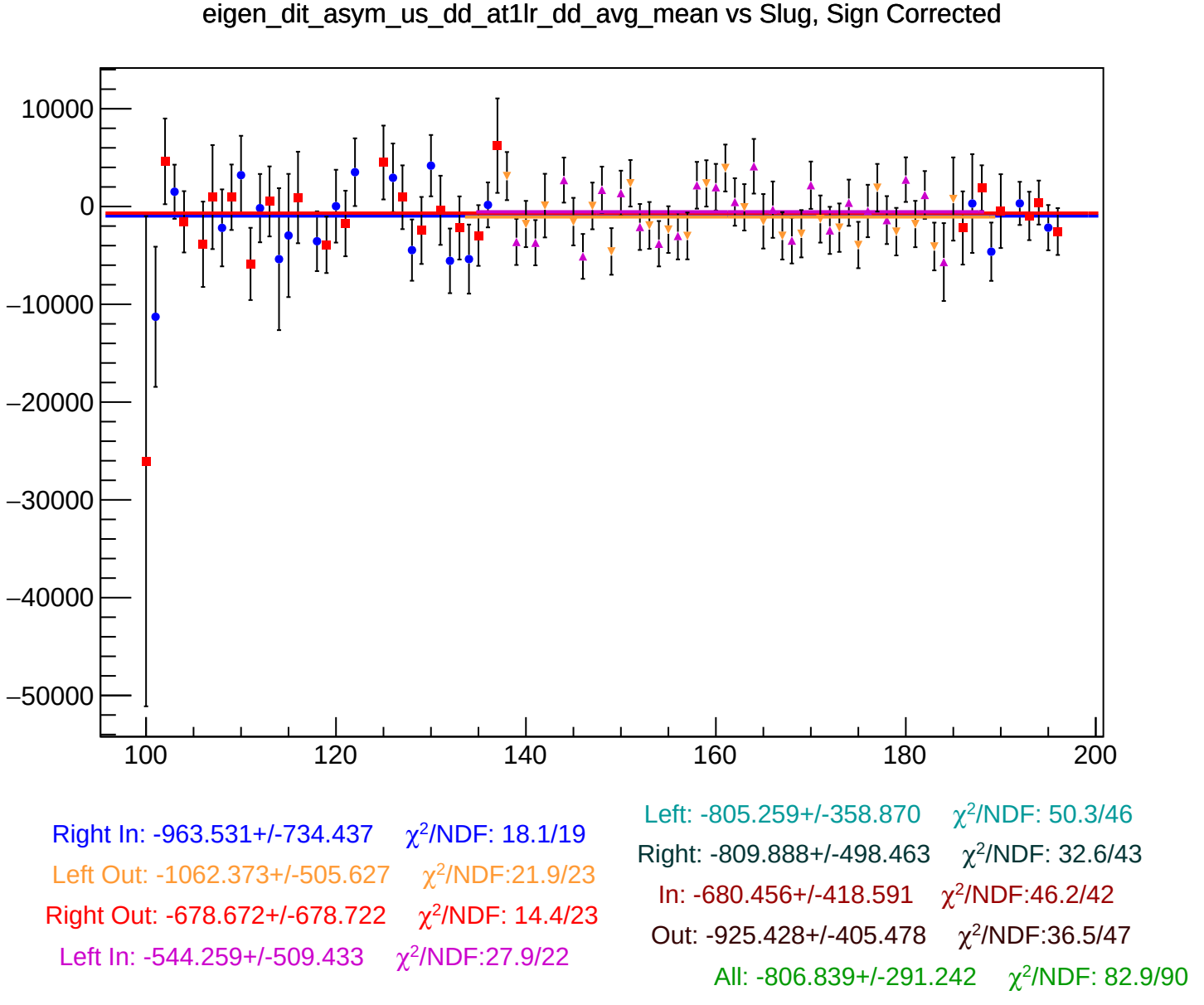
Left: 140.149+/-0.017 $\chi^2$/NDF: 5172838.7/46

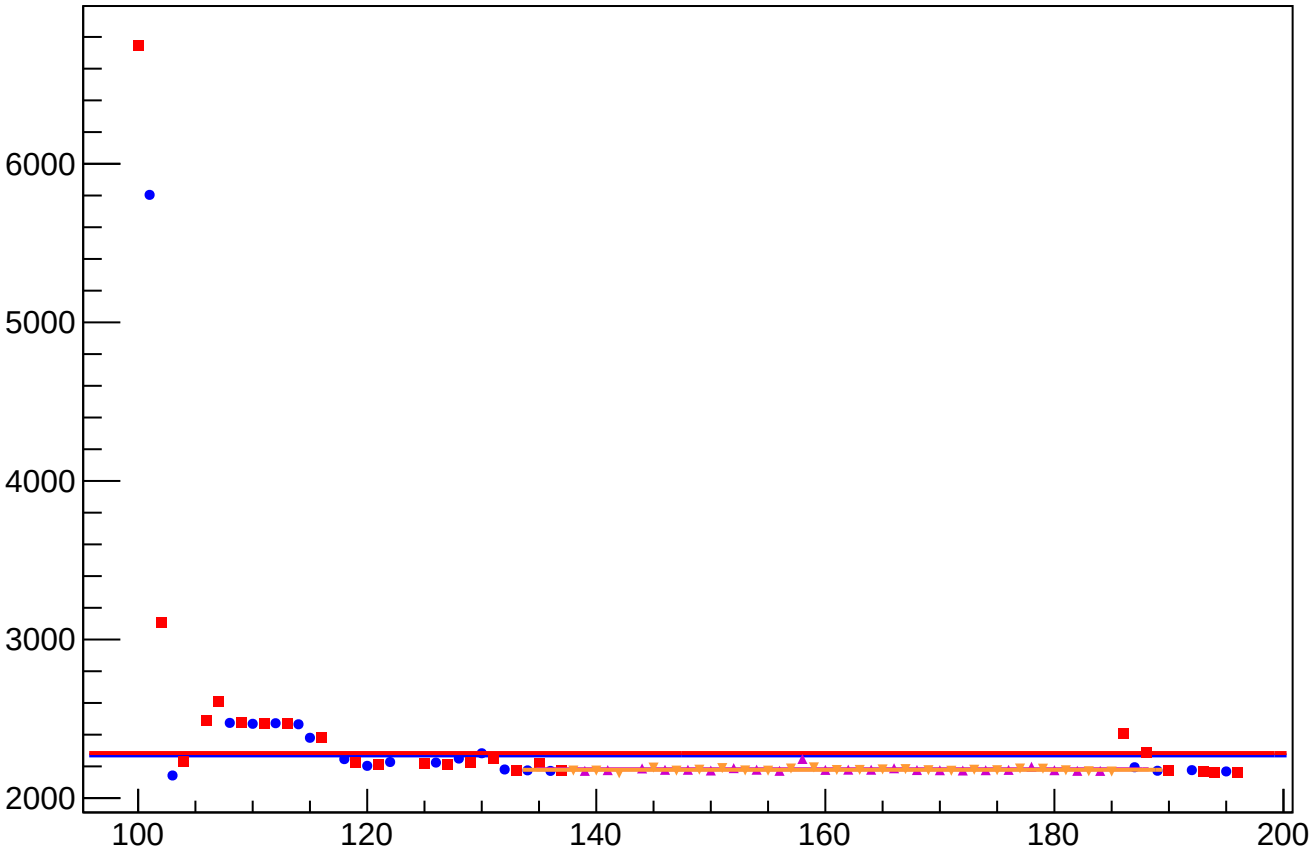
Right: 192.458+/-0.044 $\chi^2$/NDF: 22974150.1/43

In: 147.994+/-0.023 $\chi^2$/NDF:12688295.3/42

Out: 145.877+/-0.022 $\chi^2$/NDF:16670584.8/47

All: 146.922+/-0.016 $\chi^2$/NDF: 29363297.0/90


eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -963.531+/-734.437 χ²/NDF: 18.1/19
Left Out: -1062.373+/-505.627 χ²/NDF:21.9/23
Right Out: -678.672+/-678.722 χ²/NDF: 14.4/23
Left In: -544.259+/-509.433 χ²/NDF:27.9/22
Left: -805.259+/-358.870 χ²/NDF: 50.3/46
Right: -809.888+/-498.463 χ²/NDF: 32.6/43
In: -680.456+/-418.591 χ²/NDF:46.2/42
Out: -925.428+/-405.478 χ²/NDF:36.5/47
All: -806.839+/-291.242 χ²/NDF: 82.9/90




Right In: 2269.255+/-0.519 $\chi^2$/NDF: 527731.2/19

Left Out: 2178.503+/-0.358 $\chi^2$/NDF:456.1/23

Right Out: 2284.150+/-0.480 $\chi^2$/NDF: 192553.2/23

Left In: 2181.882+/-0.360 $\chi^2$/NDF:1838.2/22

Left: 2180.180+/-0.254 $\chi^2$/NDF: 2338.6/46

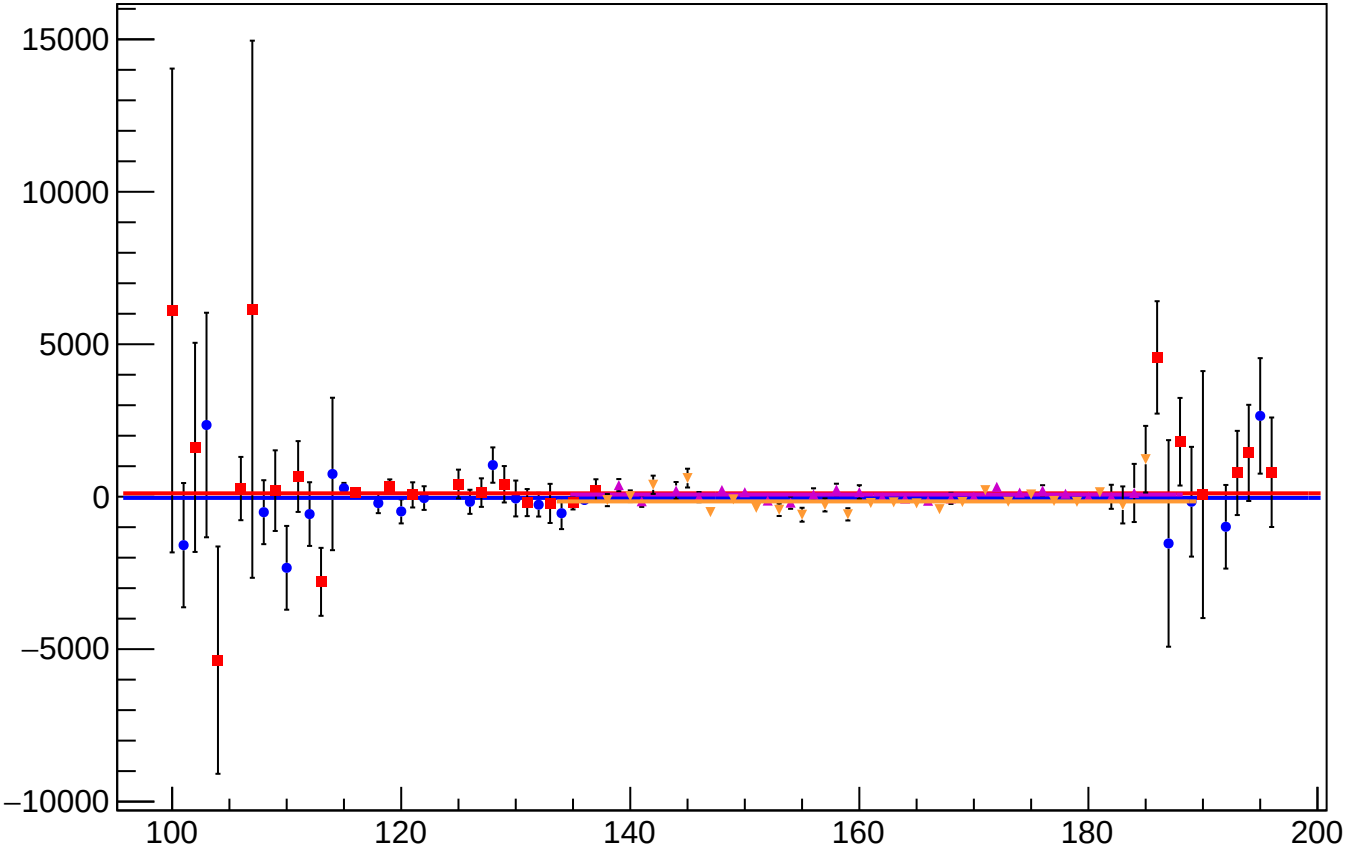
Right: 2277.289+/-0.352 $\chi^2$/NDF: 720728.2/43

In: 2210.265+/-0.296 $\chi^2$/NDF:548680.1/42

Out: 2216.209+/-0.287 $\chi^2$/NDF:224172.3/47

All: 2213.332+/-0.206 $\chi^2$/NDF: 773060.5/90

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -39.456+/-91.936 $\chi^2$/NDF: 16.7/19

Left Out: -154.726+/-34.061 $\chi^2$/NDF:47.3/23

Right Out: 110.297+/-85.432 $\chi^2$/NDF: 23.4/23

Left In: 70.141+/-34.204 $\chi^2$/NDF:18.9/22

Left: -42.766+/-24.135 $\chi^2$/NDF: 87.9/46

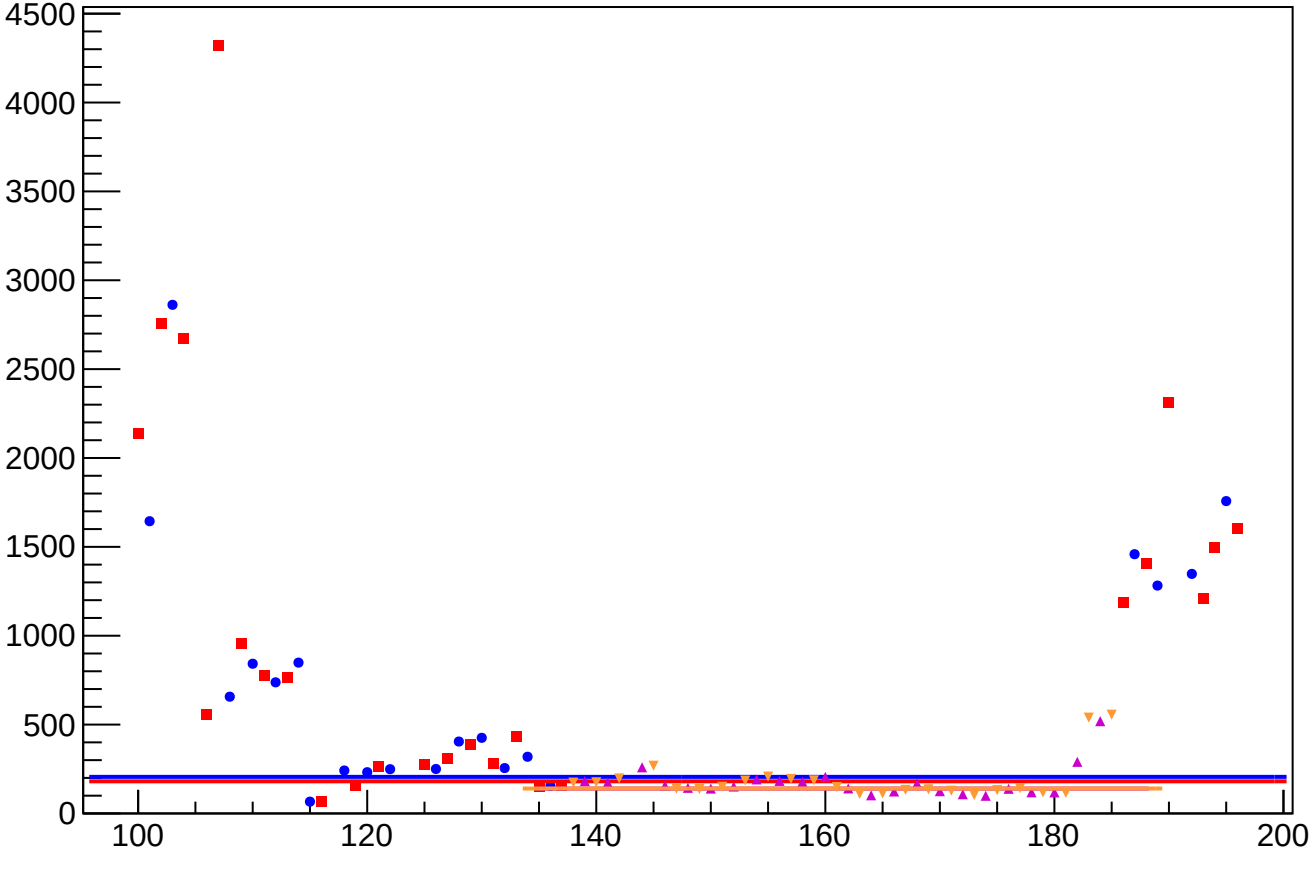
Right: 40.904+/-62.583 $\chi^2$/NDF: 41.5/43

In: 56.815+/-32.058 $\chi^2$/NDF:36.9/42

Out: -118.378+/-31.639 $\chi^2$/NDF:79.0/47

All: -31.933+/-22.519 $\chi^2$/NDF: 131.0/90

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 205.900+/-0.065 $\chi^2$/NDF: 9372594.2/19

Left Out: 140.319+/-0.024 $\chi^2$/NDF:2760280.2/23

Right Out: 180.846+/-0.060 $\chi^2$/NDF: 13521991.2/23

Left In: 139.979+/-0.024 $\chi^2$/NDF:2412509.5/22

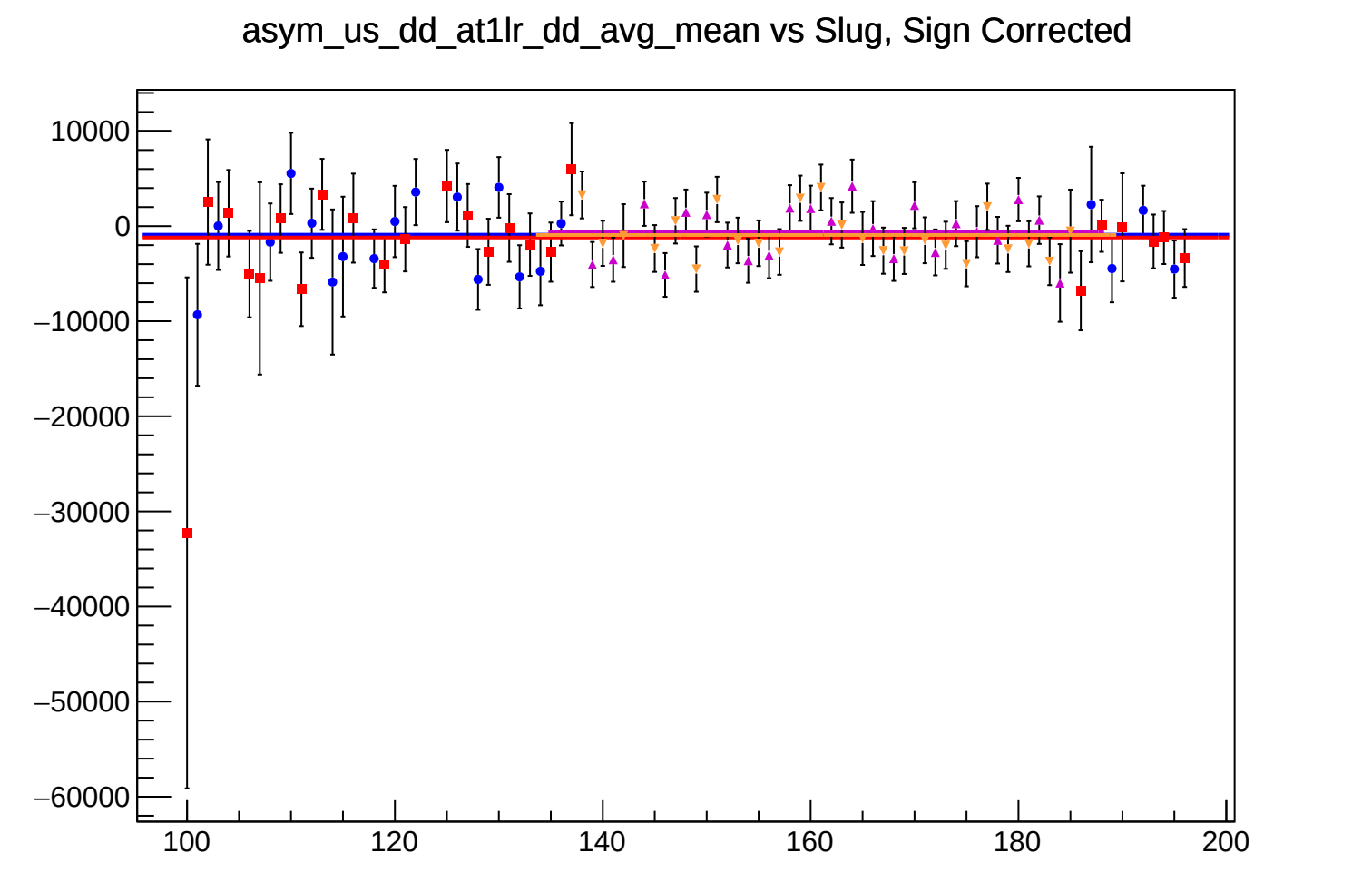
Left: 140.150+/-0.017 $\chi^2$/NDF: 5172889.1/46

Right: 192.455+/-0.044 $\chi^2$/NDF: 22974284.9/43

In: 147.994+/-0.023 $\chi^2$/NDF:12688341.7/42

Out: 145.877+/-0.022 $\chi^2$/NDF:16670612.4/47

All: 146.922+/-0.016 $\chi^2$/NDF: 29363370.6/90




Right In: -901.518+/-801.334 $\chi^2$/NDF: 19.5/19

Left Out: -932.002+/-507.717 $\chi^2$/NDF:22.4/23

Right Out: -1198.183+/-757.353 $\chi^2$/NDF: 15.7/23

Left In: -642.773+/-511.372 $\chi^2$/NDF:27.0/22

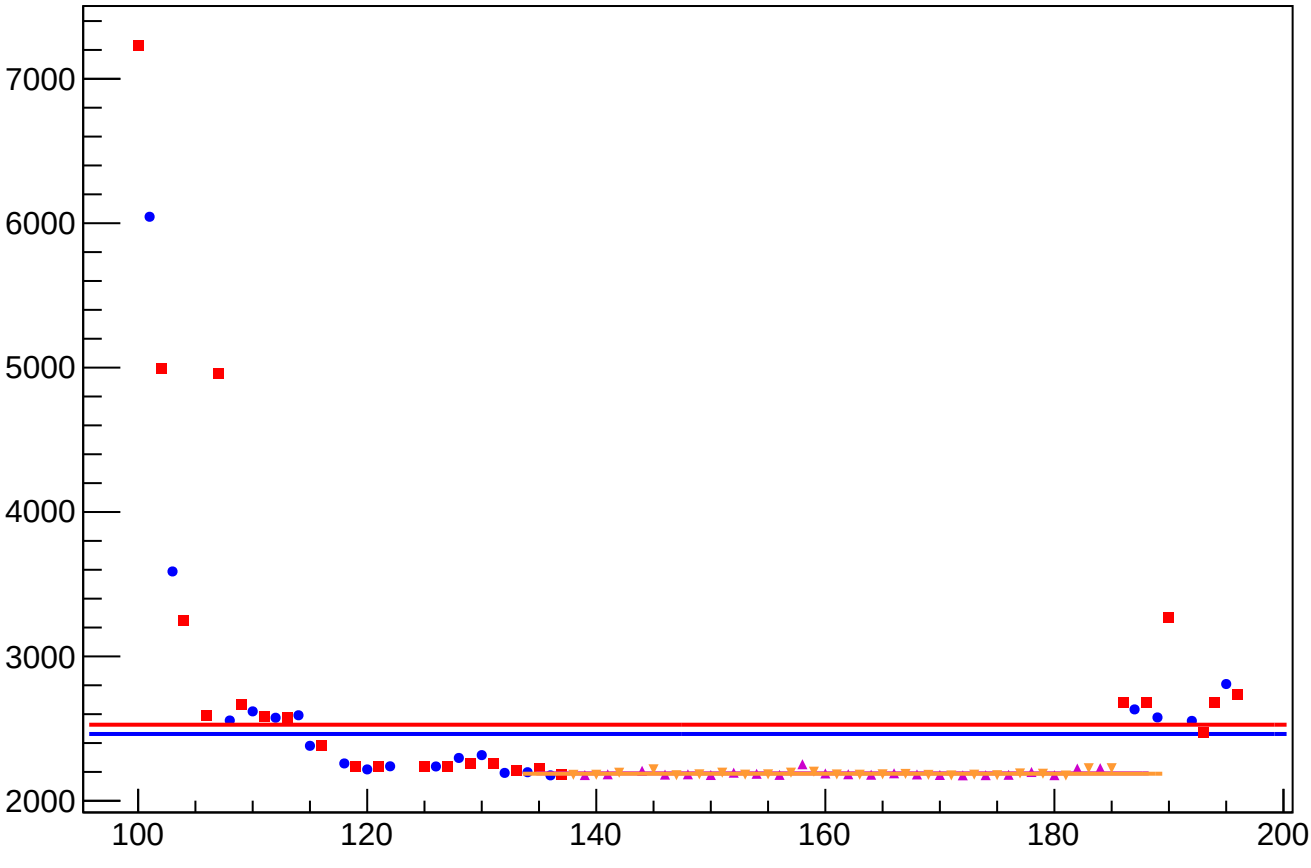
Left: -788.425+/-360.295 $\chi^2$/NDF: 49.6/46

Right: -1058.215+/-550.421 $\chi^2$/NDF: 35.3/43

In: -717.651+/-431.076 $\chi^2$/NDF:46.6/42

Out: -1014.536+/-421.721 $\chi^2$/NDF:38.1/47

All: -869.349+/-301.455 $\chi^2$/NDF: 85.0/90




Right In: 2462.789+/-0.567 $\chi^2$/NDF: 716702.8/19

Left Out: 2187.620+/-0.359 $\chi^2$/NDF:1342.1/23

Right Out: 2526.995+/-0.536 $\chi^2$/NDF: 706120.4/23

Left In: 2190.163+/-0.362 $\chi^2$/NDF:2542.8/22

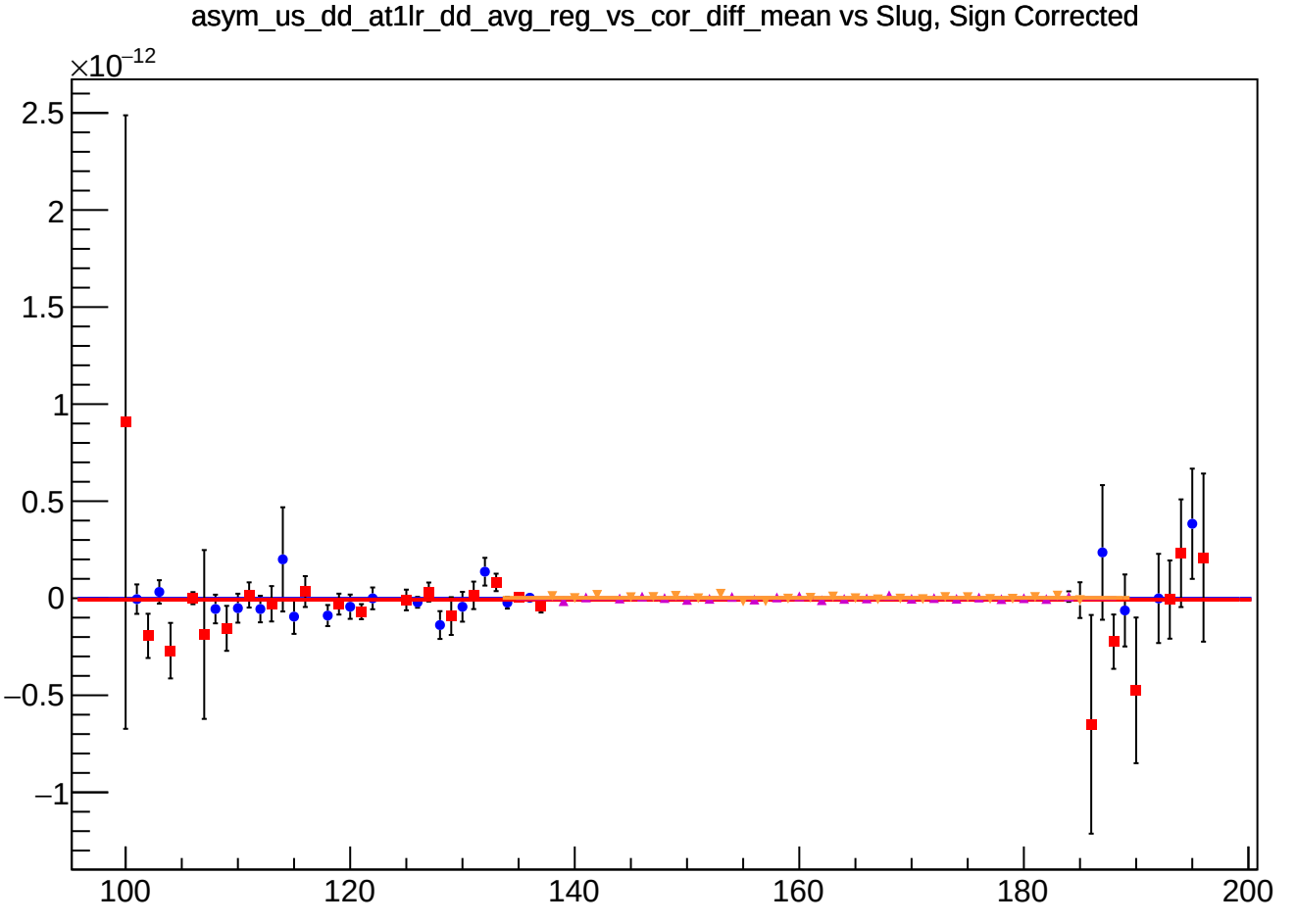
Left: 2188.882+/-0.255 $\chi^2$/NDF: 3909.8/46

Right: 2496.703+/-0.389 $\chi^2$/NDF: 1429605.0/43

In: 2269.058+/-0.305 $\chi^2$/NDF:883747.3/42

Out: 2292.849+/-0.298 $\chi^2$/NDF:984541.4/47

All: 2281.214+/-0.213 $\chi^2$/NDF: 1871401.5/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.4/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:13.3/22

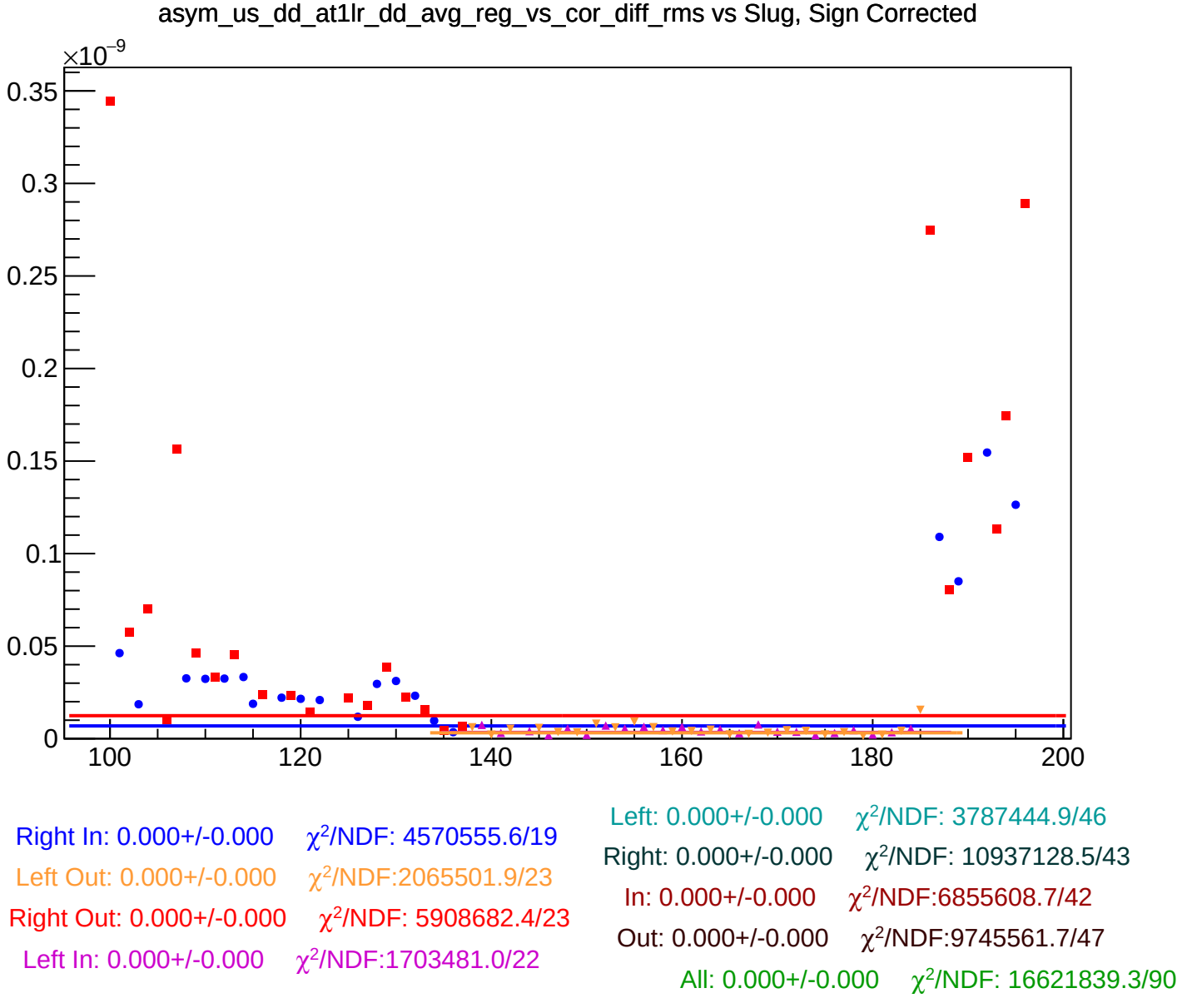
Left: 0.000+/-0.000 $\chi^2$/NDF: 33.7/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 43.3/43

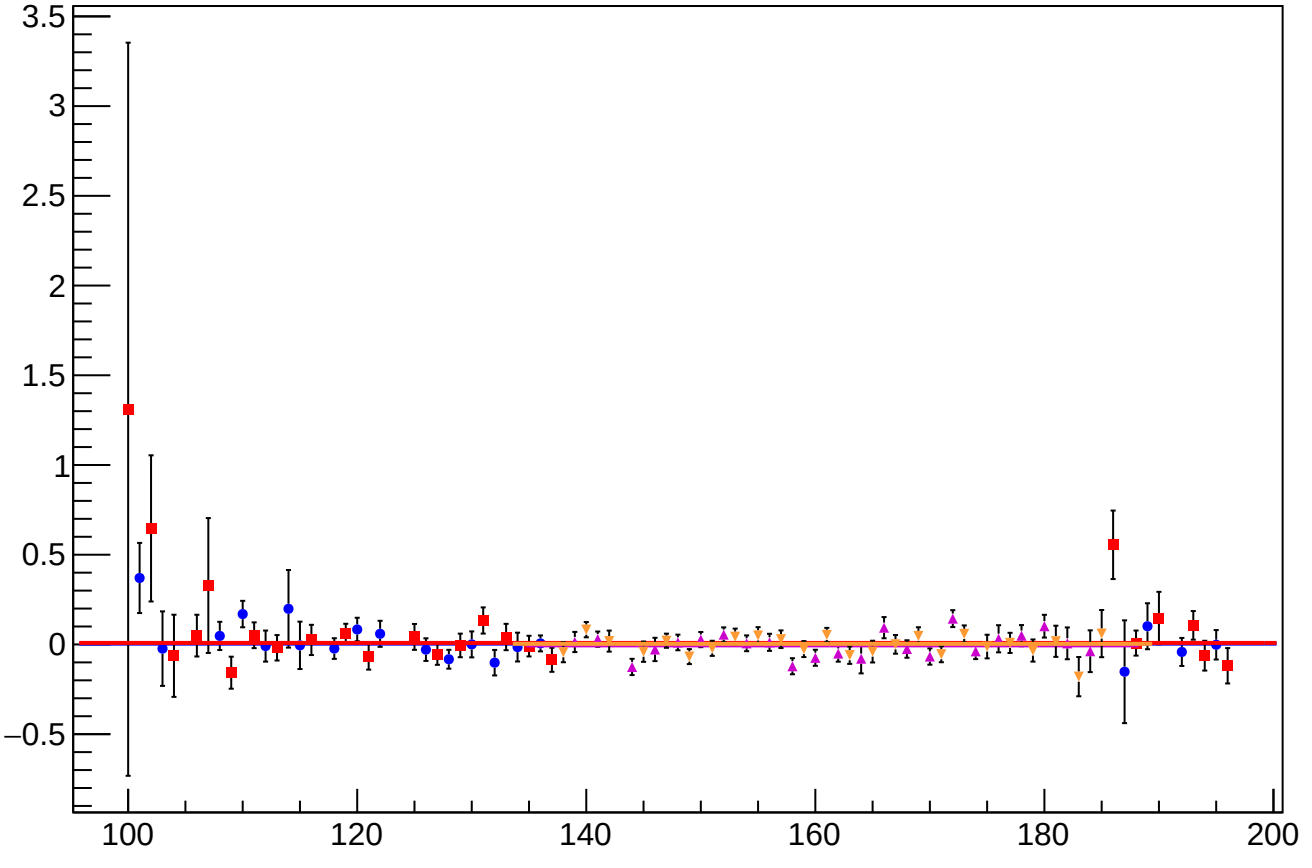
In: -0.000+/-0.000 $\chi^2$/NDF:31.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:45.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 78.0/90


asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4570555.6/19
Left Out: 0.000+/-0.000 χ²/NDF:2065501.9/23
Right Out: 0.000+/-0.000 χ²/NDF: 5908682.4/23
Left In: 0.000+/-0.000 χ²/NDF:1703481.0/22
Left: 0.000+/-0.000 χ²/NDF: 3787444.9/46
Right: 0.000+/-0.000 χ²/NDF: 10937128.5/43
In: 0.000+/-0.000 χ²/NDF:6855608.7/42
Out: 0.000+/-0.000 χ²/NDF:9745561.7/47
All: 0.000+/-0.000 χ²/NDF: 16621839.3/90

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.017 $\chi^2$/NDF: 18.5/19

Left Out: 0.003+/-0.010 $\chi^2$/NDF:21.8/23

Right Out: 0.008+/-0.017 $\chi^2$/NDF: 29.3/23

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.4/22

Left: -0.001+/-0.007 $\chi^2$/NDF: 63.6/46

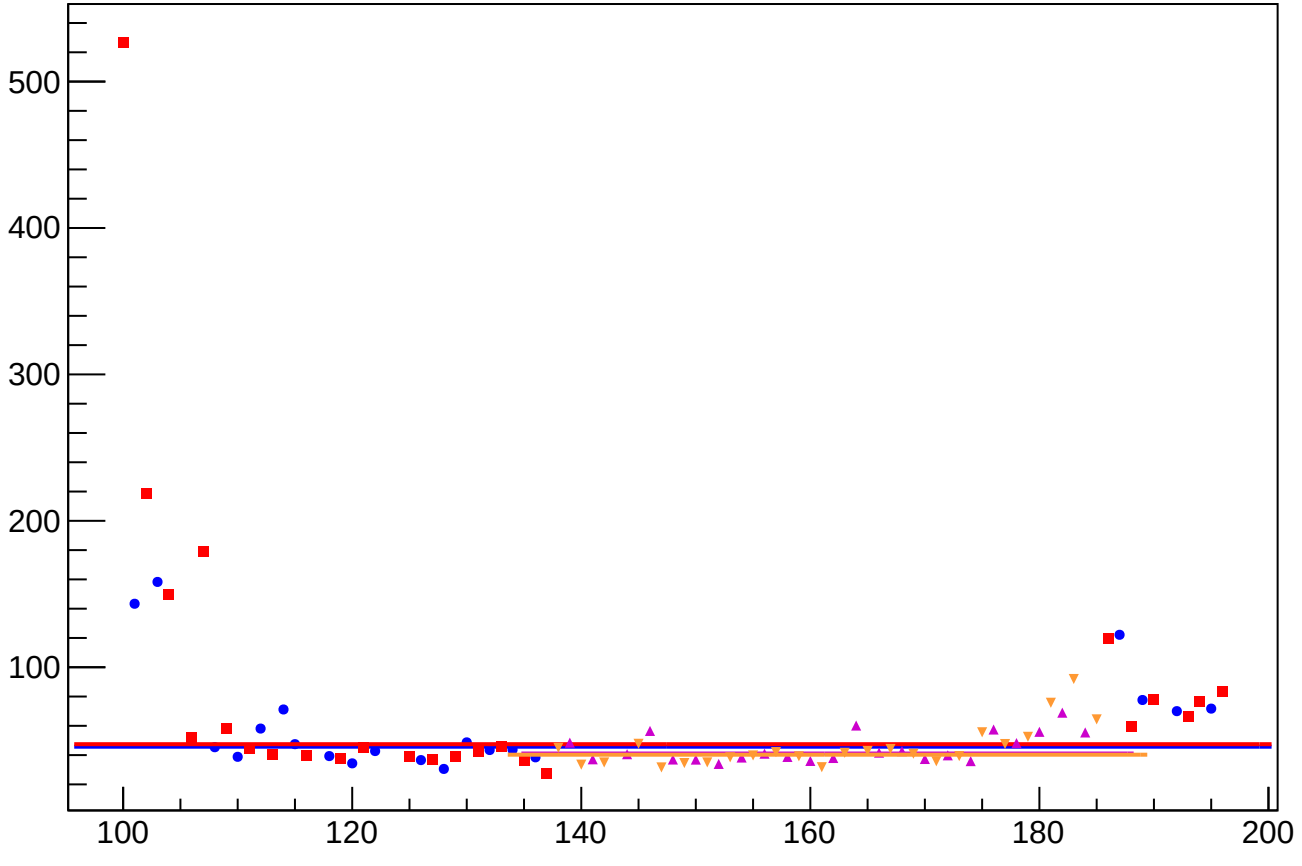
Right: 0.007+/-0.012 $\chi^2$/NDF: 47.8/43

In: -0.003+/-0.009 $\chi^2$/NDF:60.1/42

Out: 0.005+/-0.009 $\chi^2$/NDF:51.3/47

All: 0.001+/-0.006 $\chi^2$/NDF: 111.7/90

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.741+/-0.012 $\chi^2$/NDF: 2192003.3/19

Left Out: 40.277+/-0.007 $\chi^2$/NDF:1489065.3/23

Right Out: 47.456+/-0.012 $\chi^2$/NDF: 2682740.2/23

Left In: 41.082+/-0.007 $\chi^2$/NDF:926843.9/22

Left: 40.672+/-0.005 $\chi^2$/NDF: 2421828.9/46

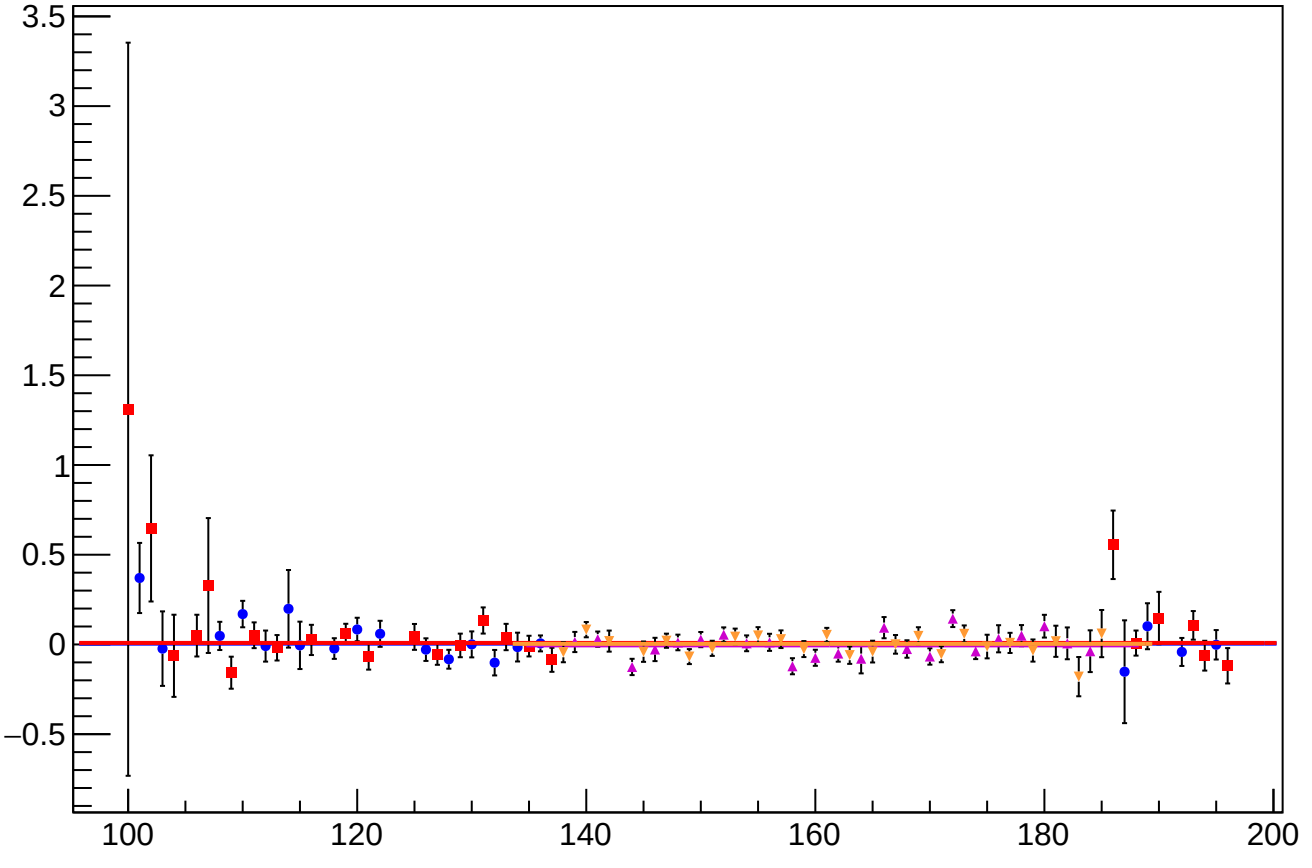
Right: 46.622+/-0.008 $\chi^2$/NDF: 4884970.4/43

In: 42.359+/-0.006 $\chi^2$/NDF:3225529.4/42

Out: 42.272+/-0.006 $\chi^2$/NDF:4438174.6/47

All: 42.315+/-0.004 $\chi^2$/NDF: 7663800.6/90

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.017 $\chi^2$/NDF: 18.5/19

Left Out: 0.003+/-0.010 $\chi^2$/NDF:21.8/23

Right Out: 0.008+/-0.017 $\chi^2$/NDF: 29.3/23

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.4/22

Left: -0.001+/-0.007 $\chi^2$/NDF: 63.6/46

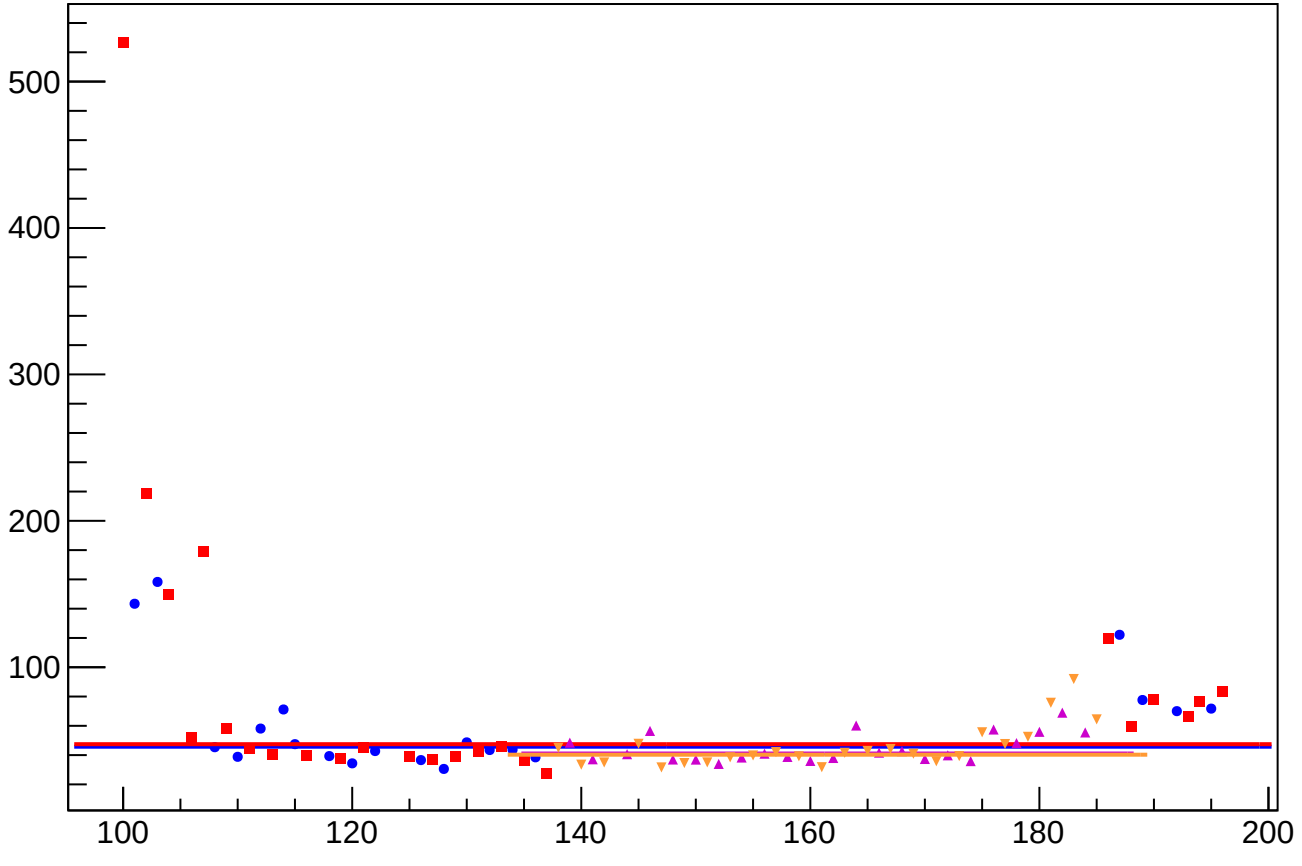
Right: 0.007+/-0.012 $\chi^2$/NDF: 47.8/43

In: -0.003+/-0.009 $\chi^2$/NDF:60.1/42

Out: 0.005+/-0.009 $\chi^2$/NDF:51.3/47

All: 0.001+/-0.006 $\chi^2$/NDF: 111.7/90

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.741+/-0.012 $\chi^2$/NDF: 2192003.3/19

Left Out: 40.277+/-0.007 $\chi^2$/NDF:1489065.3/23

Right Out: 47.456+/-0.012 $\chi^2$/NDF: 2682740.2/23

Left In: 41.082+/-0.007 $\chi^2$/NDF:926843.9/22

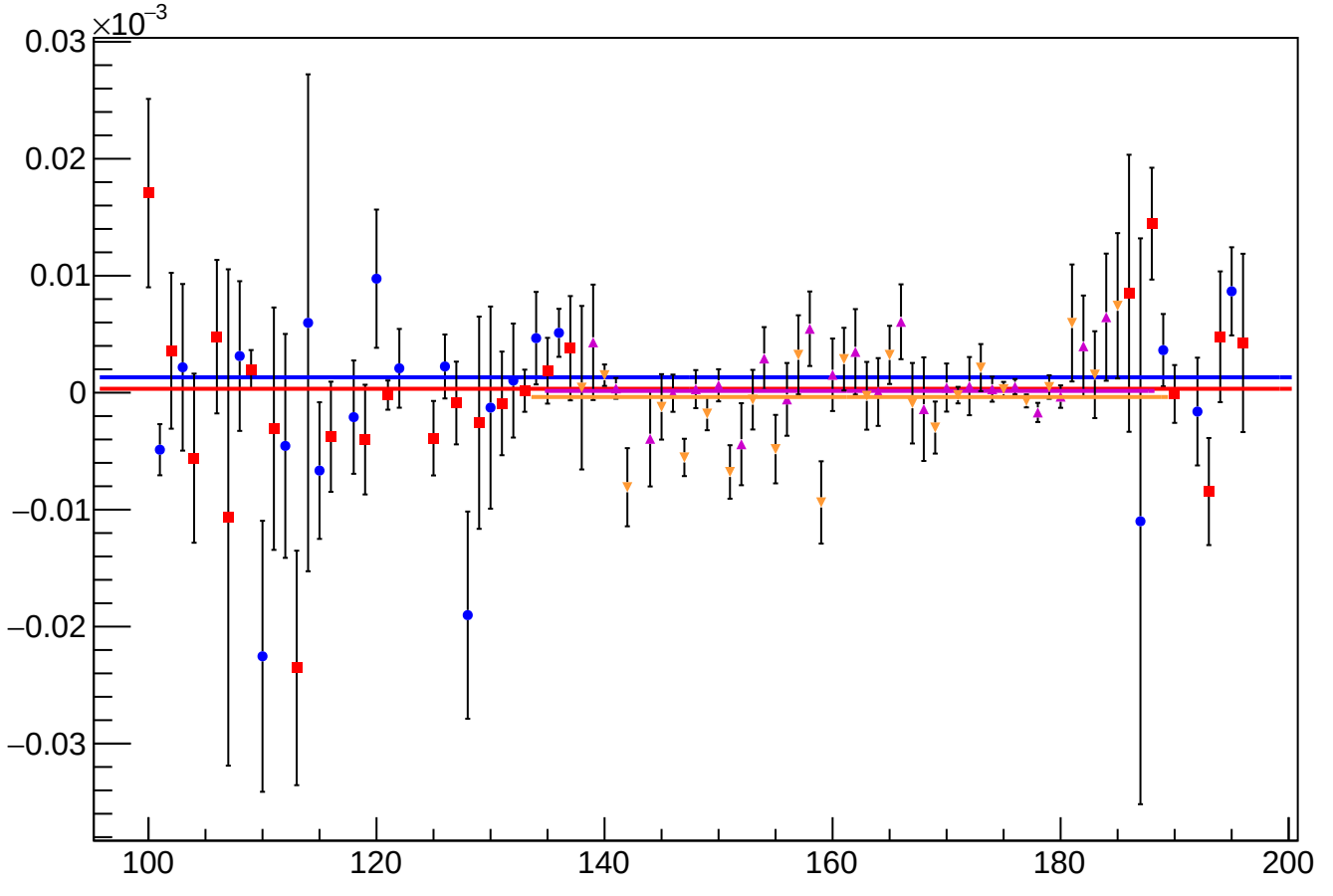
Left: 40.672+/-0.005 $\chi^2$/NDF: 2421828.9/46

Right: 46.622+/-0.008 $\chi^2$/NDF: 4884970.4/43

In: 42.359+/-0.006 $\chi^2$/NDF:3225529.4/42

Out: 42.272+/-0.006 $\chi^2$/NDF:4438174.6/47

All: 42.315+/-0.004 $\chi^2$/NDF: 7663800.6/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 31.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:51.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 31.3/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.9/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 72.6/46

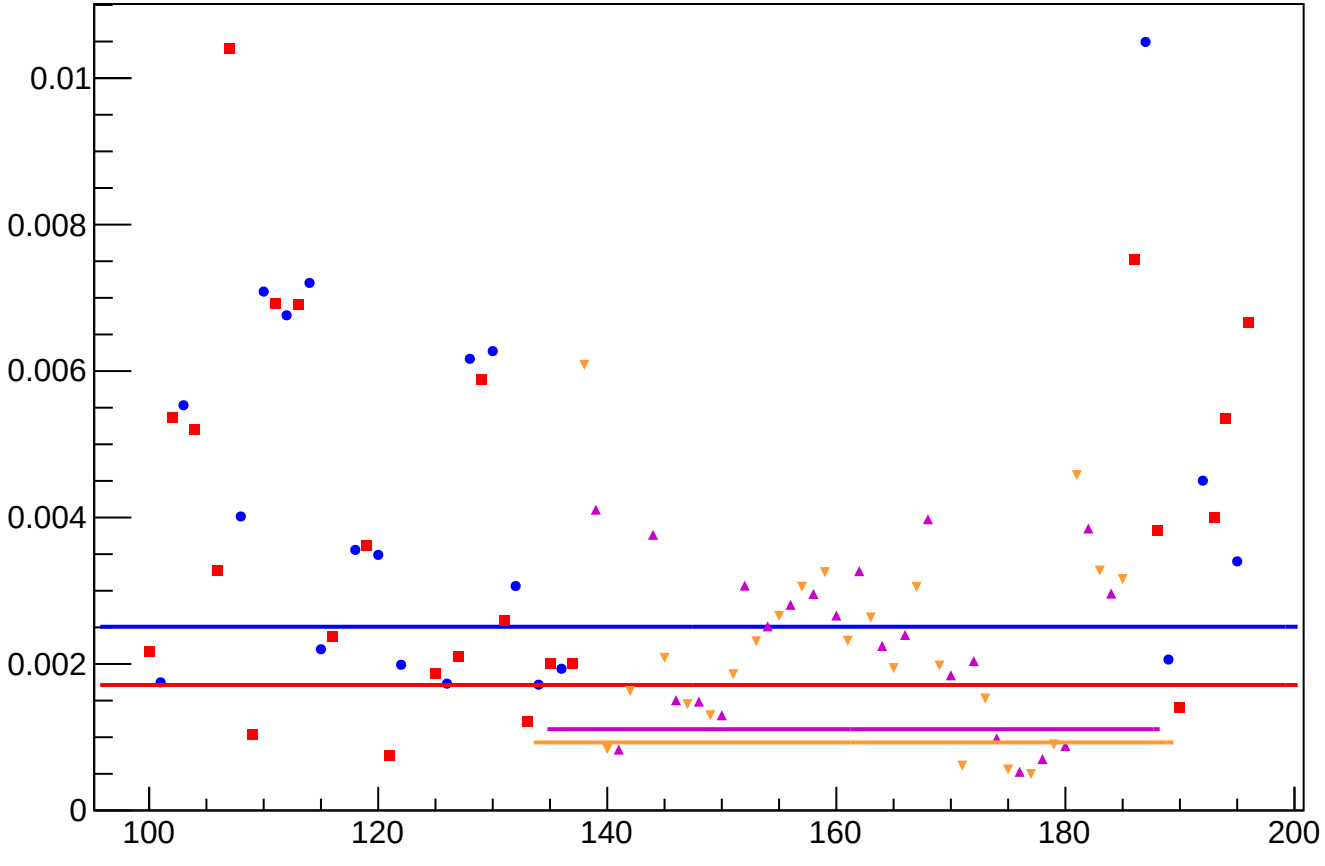
Right: 0.000+/-0.000 $\chi^2$/NDF: 64.0/43

In: 0.000+/-0.000 $\chi^2$/NDF:53.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:83.4/47

All: -0.000+/-0.000 $\chi^2$/NDF: 138.5/90

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3611352.0/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:12568645.9/23

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 8256677.8/23

Left In: 0.001+/-0.000 $\chi^2$/NDF:10930077.0/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 23862151.8/46

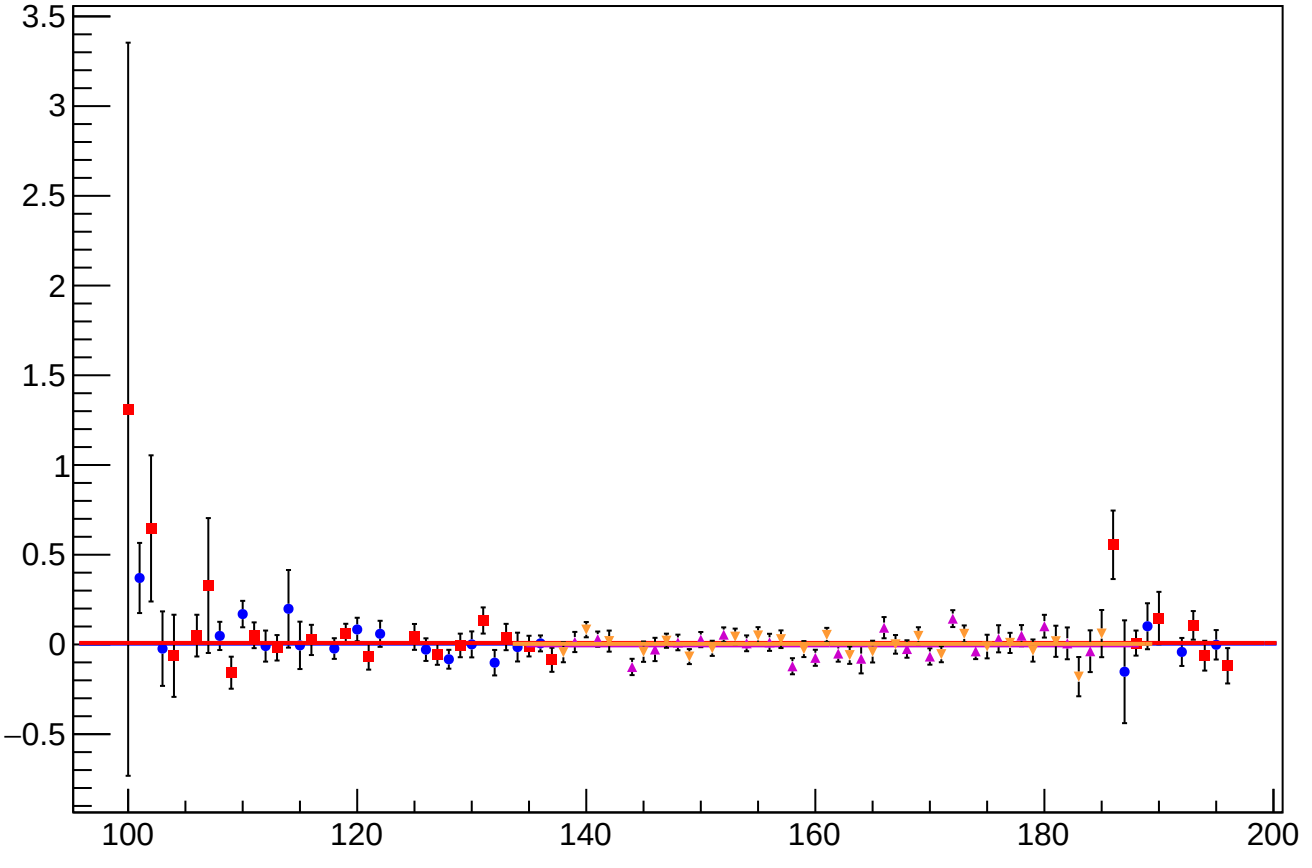
Right: 0.002+/-0.000 $\chi^2$/NDF: 12850394.6/43

In: 0.001+/-0.000 $\chi^2$/NDF:18692849.5/42

Out: 0.001+/-0.000 $\chi^2$/NDF:23169432.7/47

All: 0.001+/-0.000 $\chi^2$/NDF: 42458022.5/90

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.017 $\chi^2$/NDF: 18.5/19

Left Out: 0.003+/-0.010 $\chi^2$/NDF:21.8/23

Right Out: 0.008+/-0.017 $\chi^2$/NDF: 29.3/23

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.4/22

Left: -0.001+/-0.007 $\chi^2$/NDF: 63.6/46

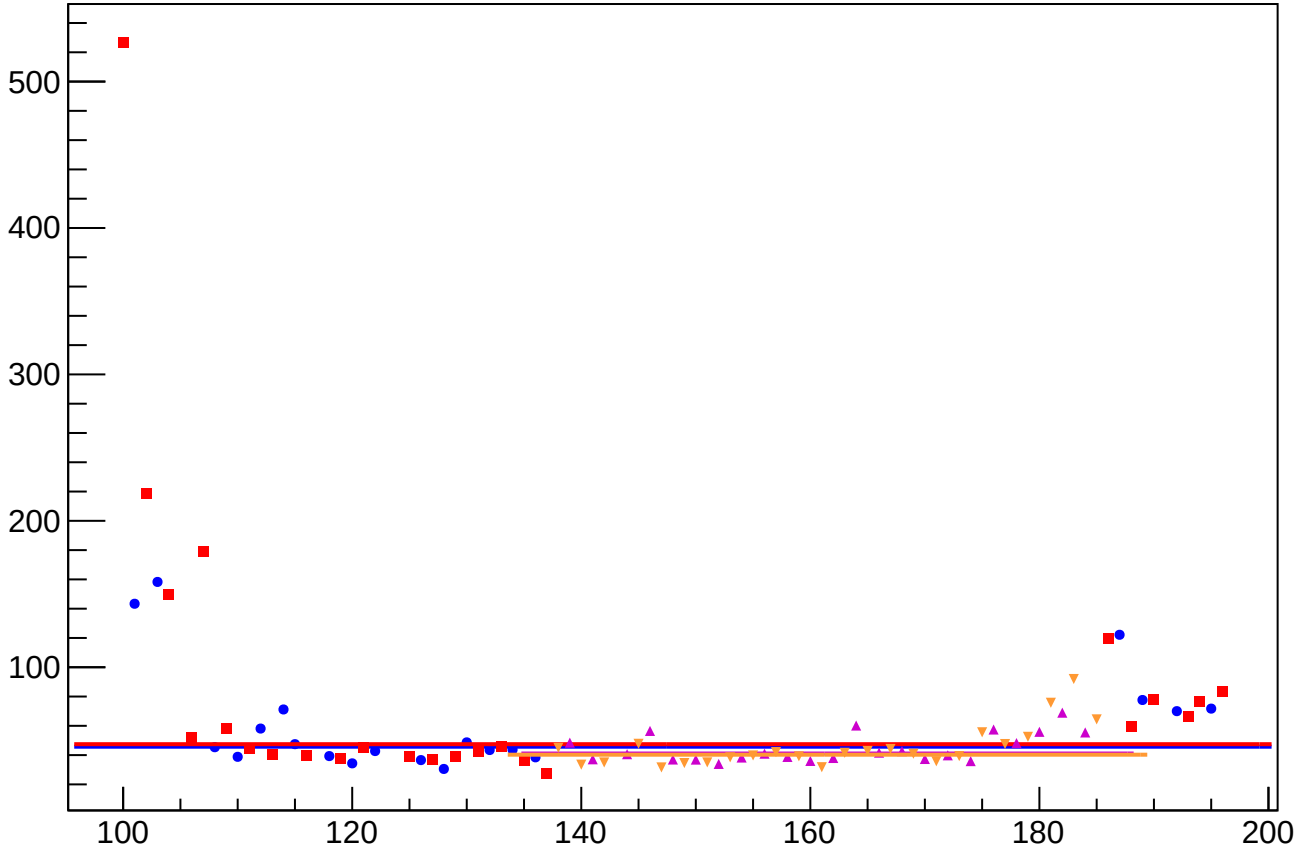
Right: 0.007+/-0.012 $\chi^2$/NDF: 47.8/43

In: -0.003+/-0.009 $\chi^2$/NDF:60.1/42

Out: 0.005+/-0.009 $\chi^2$/NDF:51.3/47

All: 0.001+/-0.006 $\chi^2$/NDF: 111.7/90

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.739+/-0.012 $\chi^2$/NDF: 2192324.2/19

Left Out: 40.277+/-0.007 $\chi^2$/NDF:1489049.7/23

Right Out: 47.456+/-0.012 $\chi^2$/NDF: 2682734.0/23

Left In: 41.082+/-0.007 $\chi^2$/NDF:926883.3/22

Left: 40.672+/-0.005 $\chi^2$/NDF: 2421851.2/46

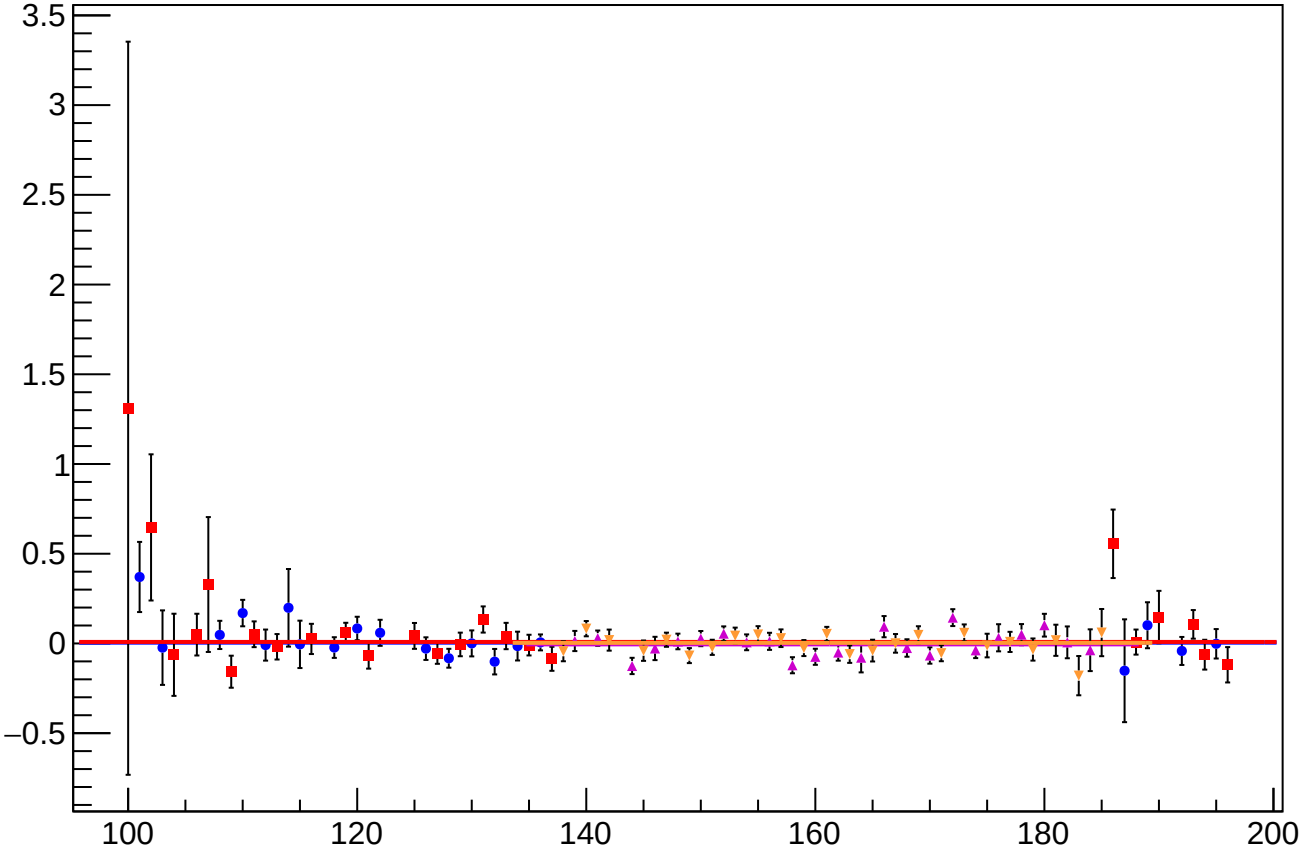
Right: 46.622+/-0.008 $\chi^2$/NDF: 4885321.1/43

In: 42.359+/-0.006 $\chi^2$/NDF:3225782.1/42

Out: 42.272+/-0.006 $\chi^2$/NDF:4438181.9/47

All: 42.315+/-0.004 $\chi^2$/NDF: 7664058.8/90

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.017 $\chi^2$/NDF: 18.5/19

Left Out: 0.003+/-0.010 $\chi^2$/NDF:21.8/23

Right Out: 0.008+/-0.017 $\chi^2$/NDF: 29.3/23

Left In: -0.005+/-0.011 $\chi^2$/NDF:41.4/22

Left: -0.001+/-0.007 $\chi^2$/NDF: 63.6/46

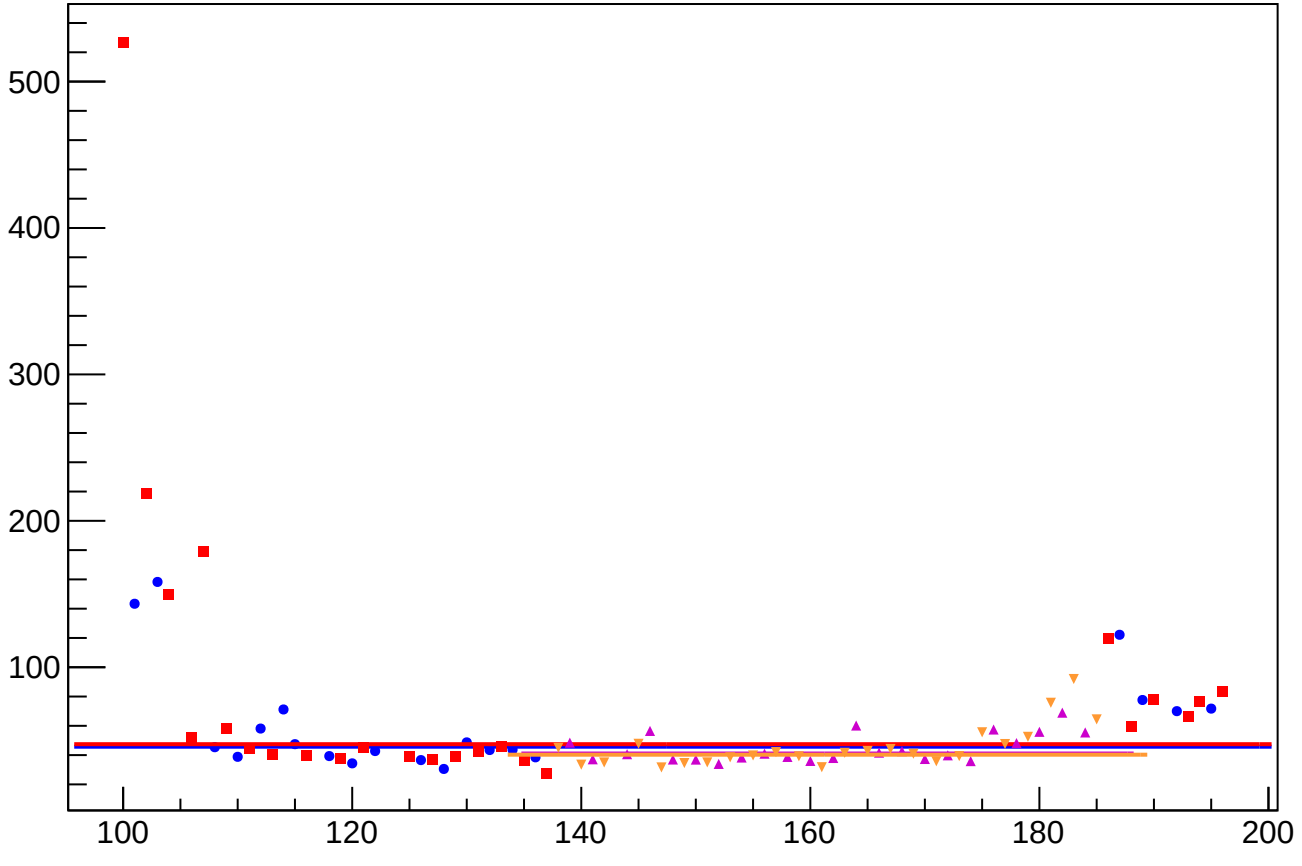
Right: 0.007+/-0.012 $\chi^2$/NDF: 47.8/43

In: -0.003+/-0.009 $\chi^2$/NDF:60.1/42

Out: 0.005+/-0.009 $\chi^2$/NDF:51.3/47

All: 0.001+/-0.006 $\chi^2$/NDF: 111.7/90

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.739+/-0.012 $\chi^2$/NDF: 2192324.2/19

Left Out: 40.277+/-0.007 $\chi^2$/NDF:1489049.7/23

Right Out: 47.456+/-0.012 $\chi^2$/NDF: 2682734.0/23

Left In: 41.082+/-0.007 $\chi^2$/NDF:926883.3/22

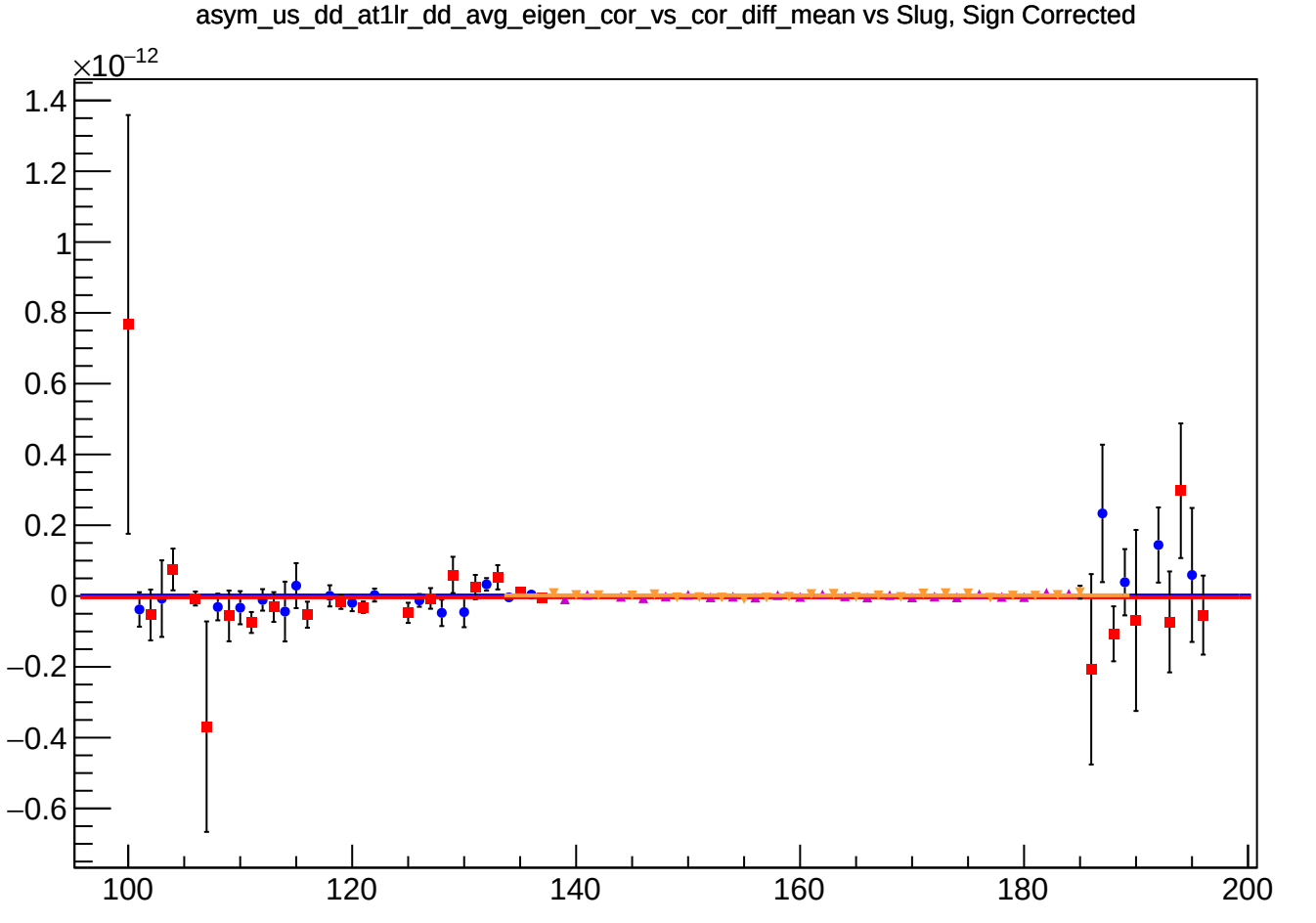
Left: 40.672+/-0.005 $\chi^2$/NDF: 2421851.2/46

Right: 46.622+/-0.008 $\chi^2$/NDF: 4885321.1/43

In: 42.359+/-0.006 $\chi^2$/NDF:3225782.1/42

Out: 42.272+/-0.006 $\chi^2$/NDF:4438181.9/47

All: 42.315+/-0.004 $\chi^2$/NDF: 7664058.8/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.2/23

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

Left In: -0.000+/-0.000 $\chi^2$/NDF:23.1/22

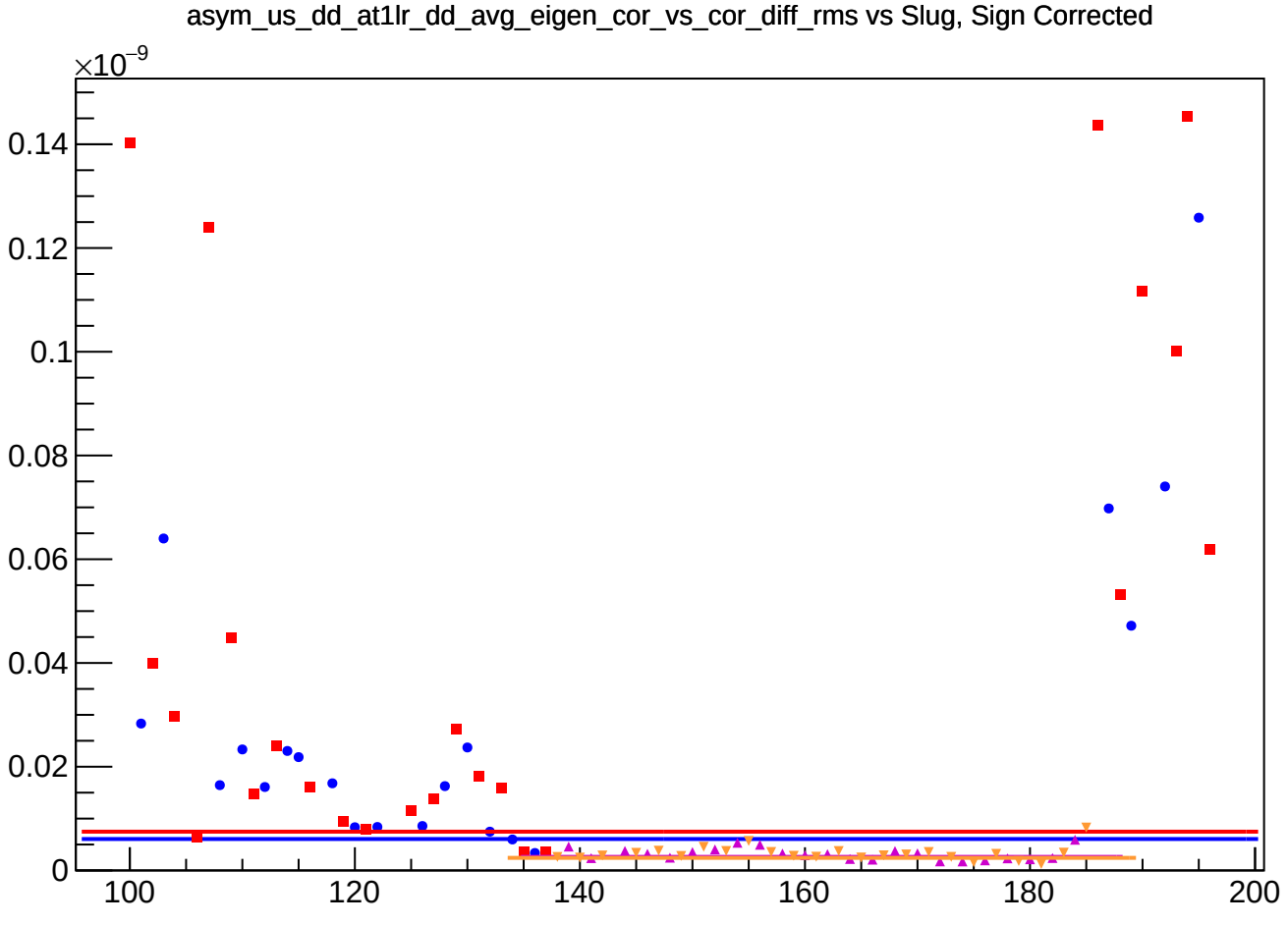
Left: 0.000+/-0.000 $\chi^2$/NDF: 52.2/46

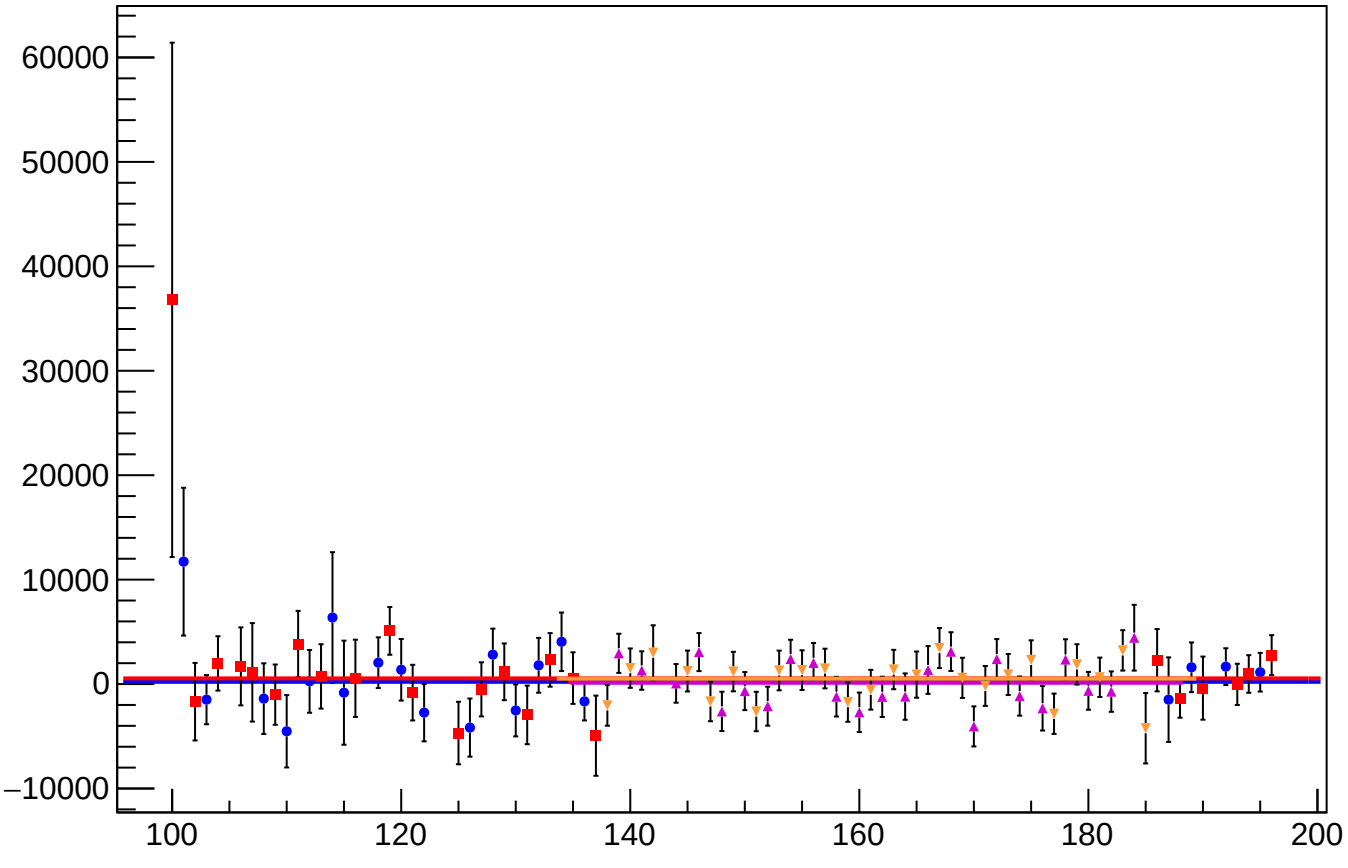
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.9/43

In: -0.000+/-0.000 $\chi^2$/NDF:37.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:60.7/47

All: 0.000+/-0.000 $\chi^2$/NDF: 101.3/90


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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5525914.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2792453.3/23
Right Out: 0.000+/-0.000 χ²/NDF: 7724656.2/23
Left In: 0.000+/-0.000 χ²/NDF:1949059.2/22
Left: 0.000+/-0.000 χ²/NDF: 4793027.5/46
Right: 0.000+/-0.000 χ²/NDF: 13357314.6/43
In: 0.000+/-0.000 χ²/NDF:8952278.0/42
Out: 0.000+/-0.000 χ²/NDF:12737280.5/47
All: 0.000+/-0.000 χ²/NDF: 21750557.5/90




Right In: 217.579+/-593.379 $\chi^2$/NDF: 17.7/19

Left Out: 519.929+/-401.705 $\chi^2$/NDF:20.8/23

Right Out: 543.771+/-548.702 $\chi^2$/NDF: 18.8/23

Left In: 126.031+/-404.630 $\chi^2$/NDF:29.5/22

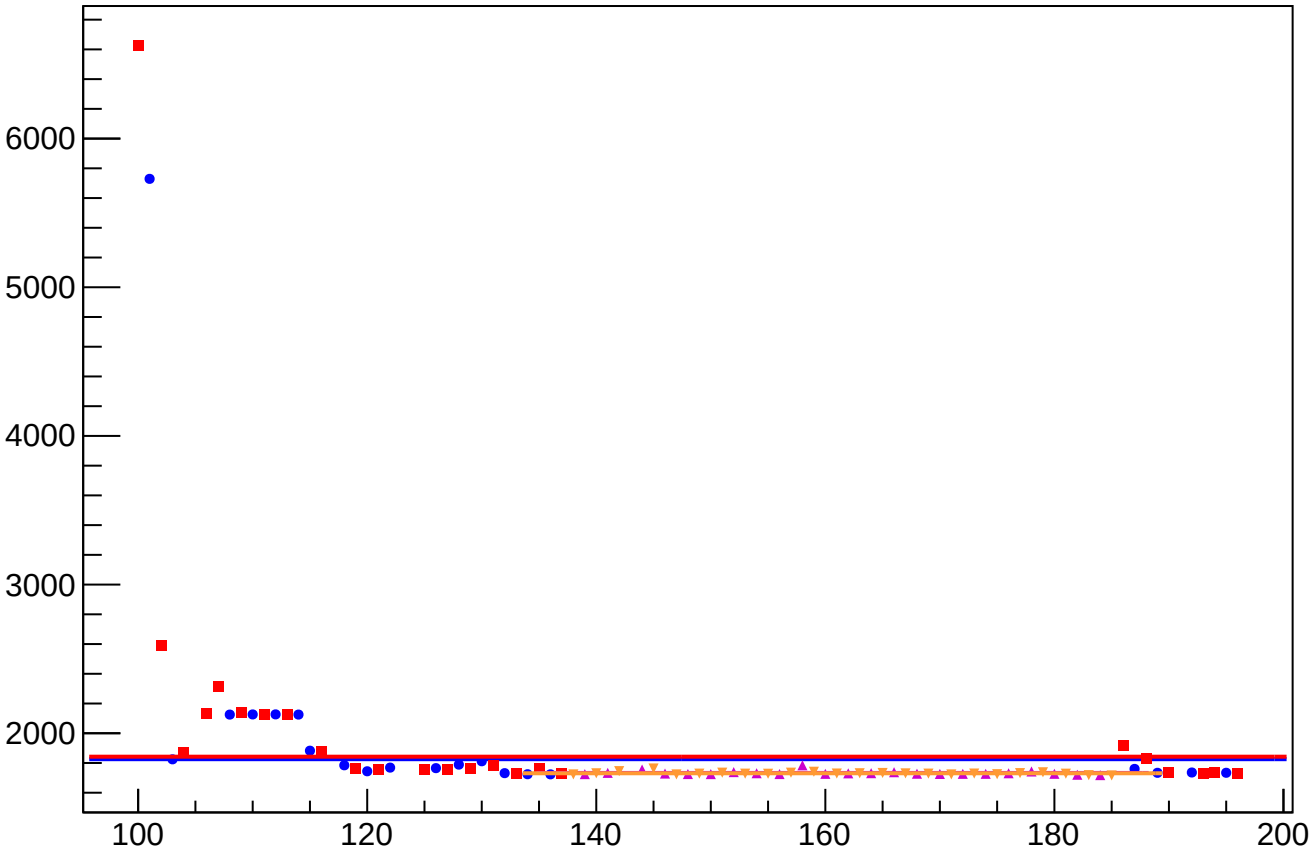
Left: 324.409+/-285.077 $\chi^2$/NDF: 50.7/46

Right: 393.416+/-402.861 $\chi^2$/NDF: 36.7/43

In: 155.089+/-334.302 $\chi^2$/NDF:47.1/42

Out: 528.249+/-324.127 $\chi^2$/NDF:39.6/47

All: 347.434+/-232.707 $\chi^2$/NDF: 87.4/90




Right In: 1825.523+/-0.420 $\chi^2$/NDF: 693949.3/19

Left Out: 1730.847+/-0.284 $\chi^2$/NDF:969.7/23

Right Out: 1842.348+/-0.388 $\chi^2$/NDF: 286373.1/23

Left In: 1733.007+/-0.286 $\chi^2$/NDF:2237.4/22

Left: 1731.919+/-0.202 $\chi^2$/NDF: 3235.8/46

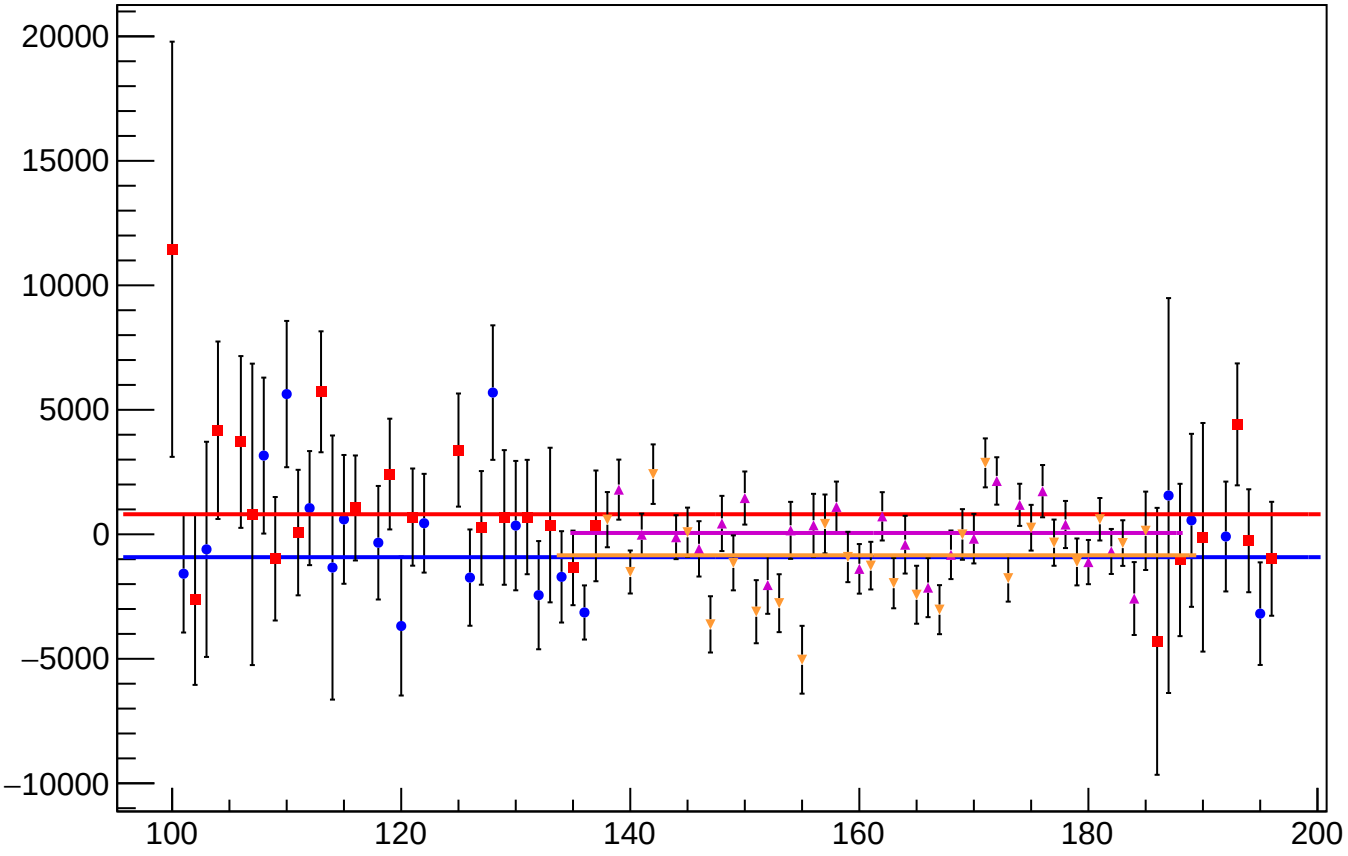
Right: 1834.593+/-0.285 $\chi^2$/NDF: 981189.3/43

In: 1762.372+/-0.236 $\chi^2$/NDF:729373.4/42

Out: 1769.755+/-0.229 $\chi^2$/NDF:341112.4/47

All: 1766.178+/-0.165 $\chi^2$/NDF: 1070988.6/90

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -918.325+/-509.779 $\chi^2$/NDF: 22.3/19

Left Out: -842.437+/-210.852 $\chi^2$/NDF:62.7/23

Right Out: 806.045+/-518.950 $\chi^2$/NDF: 17.3/23

Left In: 53.905+/-212.966 $\chi^2$/NDF:30.6/22

Left: -398.736+/-149.837 $\chi^2$/NDF: 102.3/46

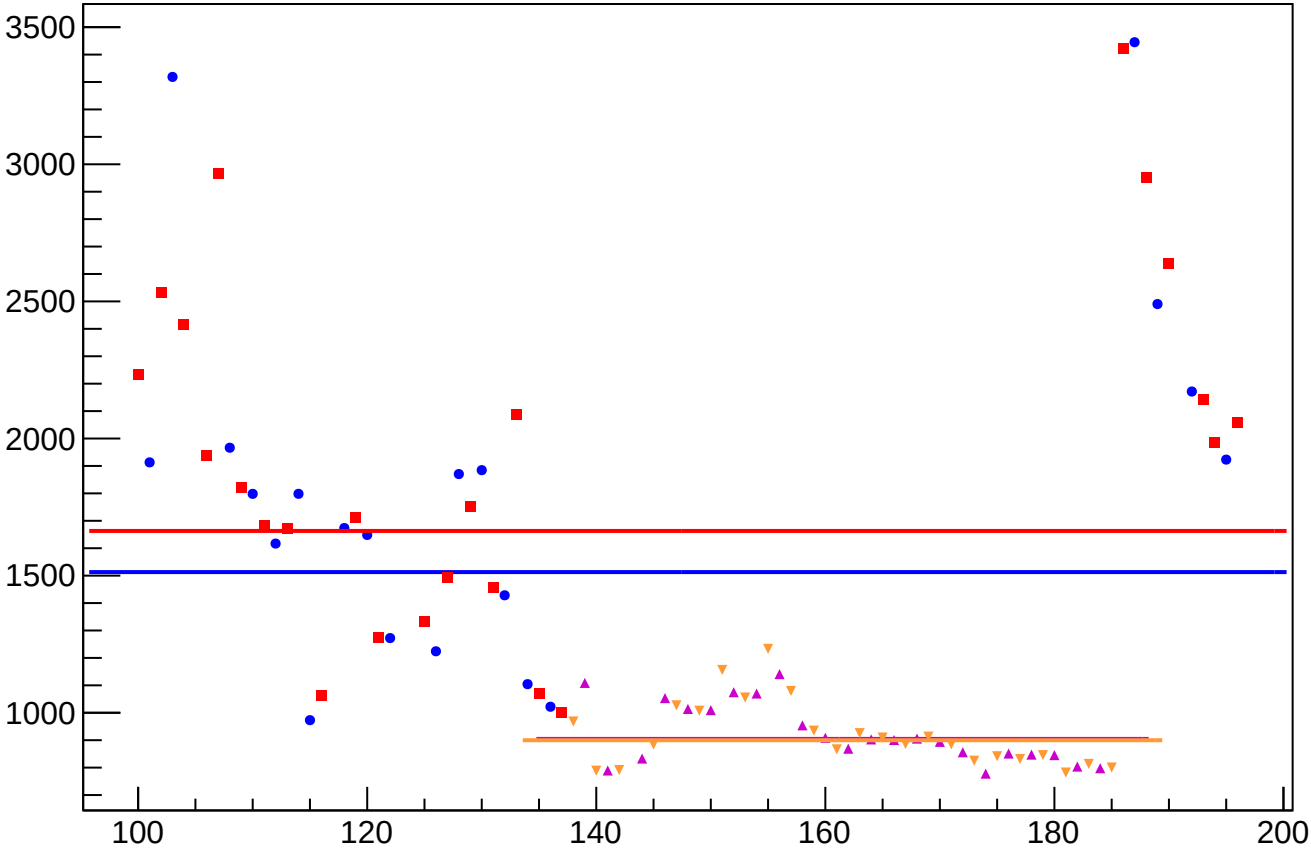
Right: -71.512+/-363.667 $\chi^2$/NDF: 45.2/43

In: -90.560+/-196.508 $\chi^2$/NDF:56.0/42

Out: -608.859+/-195.344 $\chi^2$/NDF:88.7/47

All: -351.249+/-138.539 $\chi^2$/NDF: 148.2/90

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 1512.949+/-0.360 $\chi^2$/NDF: 1773468.8/19

Left Out: 899.811+/-0.149 $\chi^2$/NDF:495328.4/23

Right Out: 1663.026+/-0.367 $\chi^2$/NDF: 2029549.9/23

Left In: 904.656+/-0.151 $\chi^2$/NDF:452251.7/22

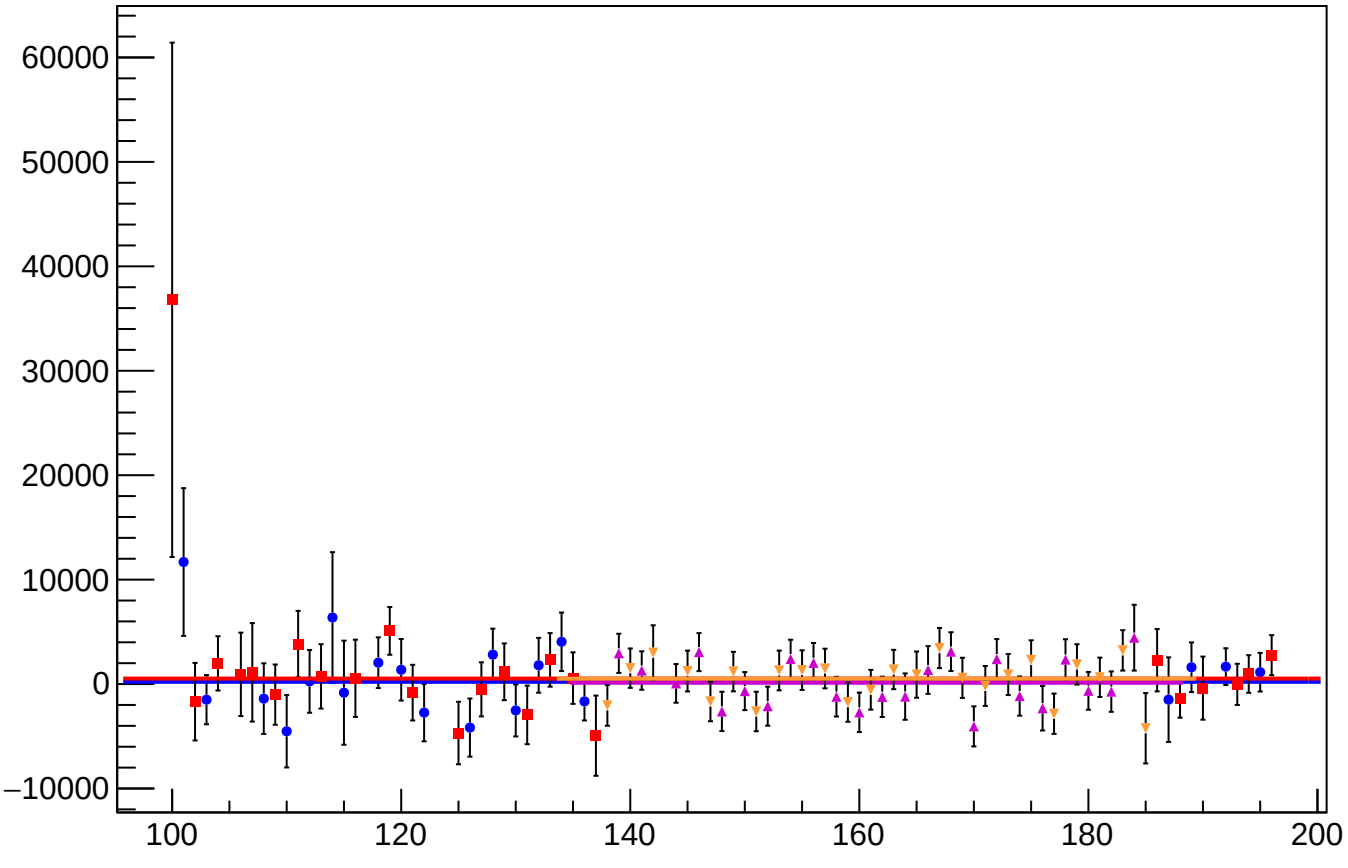
Left: 902.210+/-0.106 $\chi^2$/NDF: 948102.8/46

Right: 1586.649+/-0.257 $\chi^2$/NDF: 3888142.4/43

In: 995.043+/-0.139 $\chi^2$/NDF:4650261.4/42

Out: 1007.953+/-0.138 $\chi^2$/NDF:6237784.7/47

All: 1001.537+/-0.098 $\chi^2$/NDF: 10892387.9/9




Right In: 217.102+/-593.379 $\chi^2$/NDF: 17.6/19

Left Out: 519.957+/-401.705 $\chi^2$/NDF:20.8/23

Right Out: 526.489+/-549.445 $\chi^2$/NDF: 18.7/23

Left In: 126.091+/-404.630 $\chi^2$/NDF:29.5/22

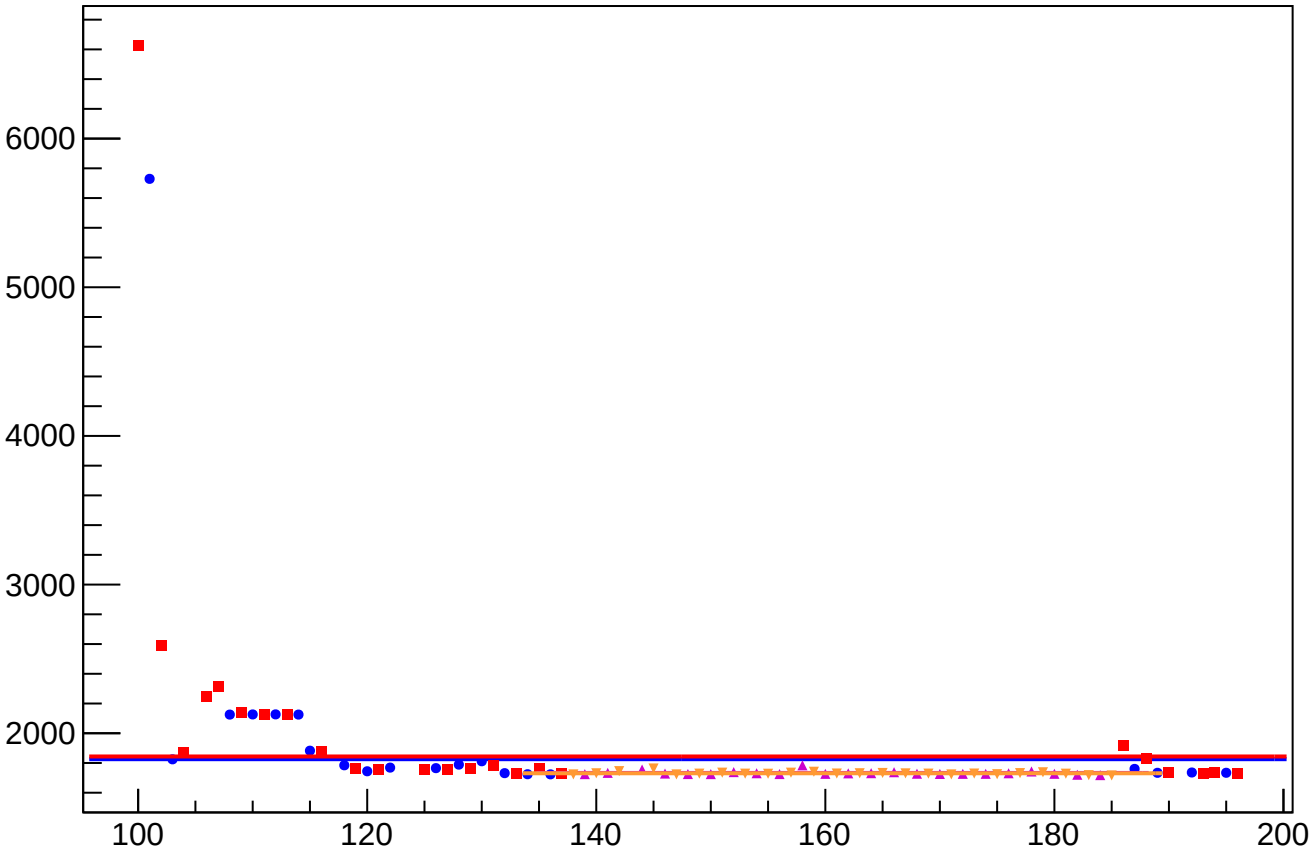
Left: 324.453+/-285.077 $\chi^2$/NDF: 50.7/46

Right: 383.672+/-403.155 $\chi^2$/NDF: 36.5/43

In: 154.979+/-334.302 $\chi^2$/NDF:47.1/42

Out: 522.232+/-324.280 $\chi^2$/NDF:39.5/47

All: 344.193+/-232.763 $\chi^2$/NDF: 87.3/90




Right In: 1825.523+/-0.420 $\chi^2$/NDF: 693949.2/19

Left Out: 1730.847+/-0.284 $\chi^2$/NDF:969.7/23

Right Out: 1843.770+/-0.389 $\chi^2$/NDF: 295043.2/23

Left In: 1733.007+/-0.286 $\chi^2$/NDF:2237.4/22

Left: 1731.919+/-0.202 $\chi^2$/NDF: 3235.8/46

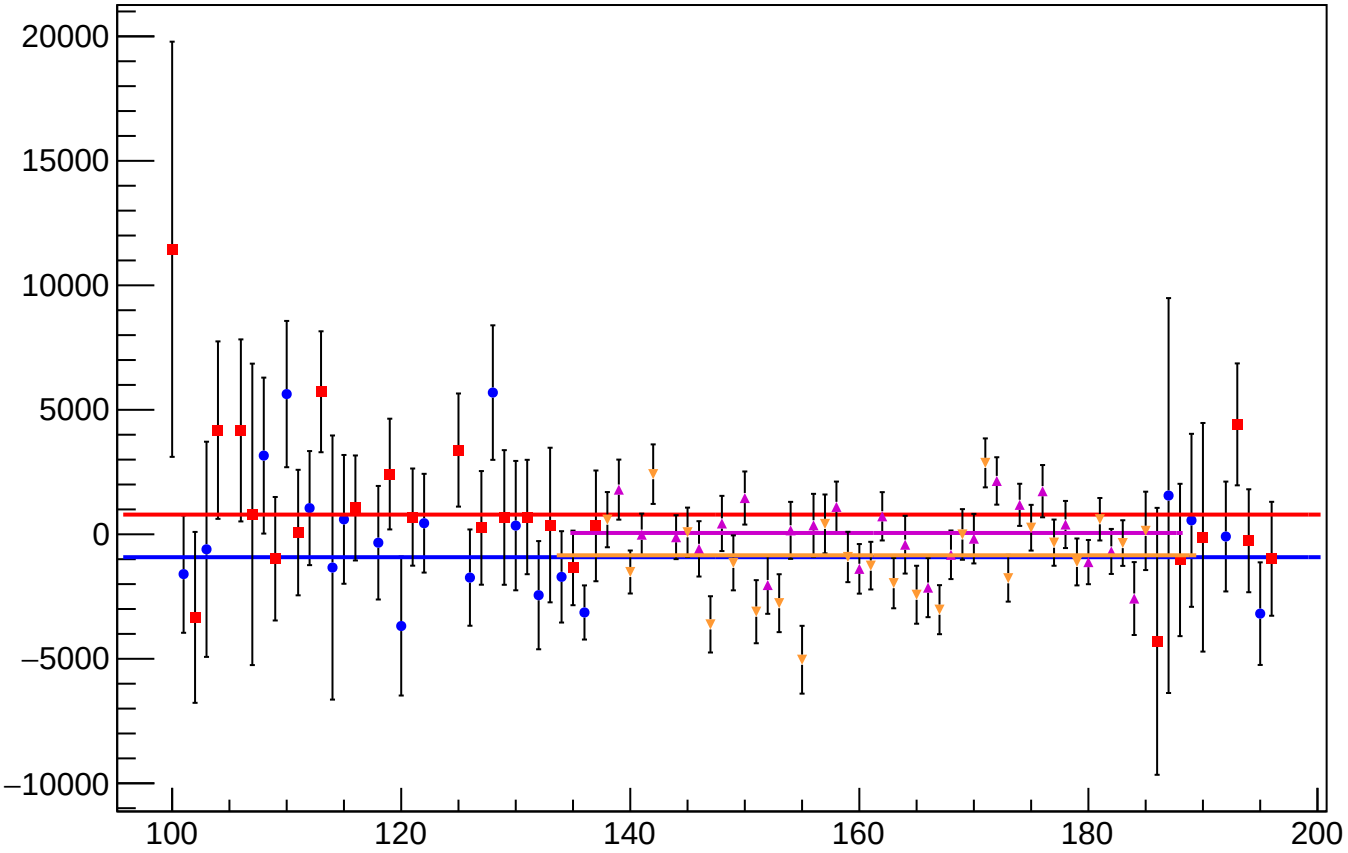
Right: 1835.347+/-0.285 $\chi^2$/NDF: 990010.6/43

In: 1762.372+/-0.236 $\chi^2$/NDF:729373.3/42

Out: 1770.182+/-0.229 $\chi^2$/NDF:351065.2/47

All: 1766.396+/-0.165 $\chi^2$/NDF: 1081000.8/90

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs Slug, Sign Corrected




Right In: -918.986+/-509.744 $\chi^2$/NDF: 22.3/19

Left Out: -842.473+/-210.853 $\chi^2$/NDF:62.7/23

Right Out: 791.851+/-519.595 $\chi^2$/NDF: 17.9/23

Left In: 53.927+/-212.965 $\chi^2$/NDF:30.6/22

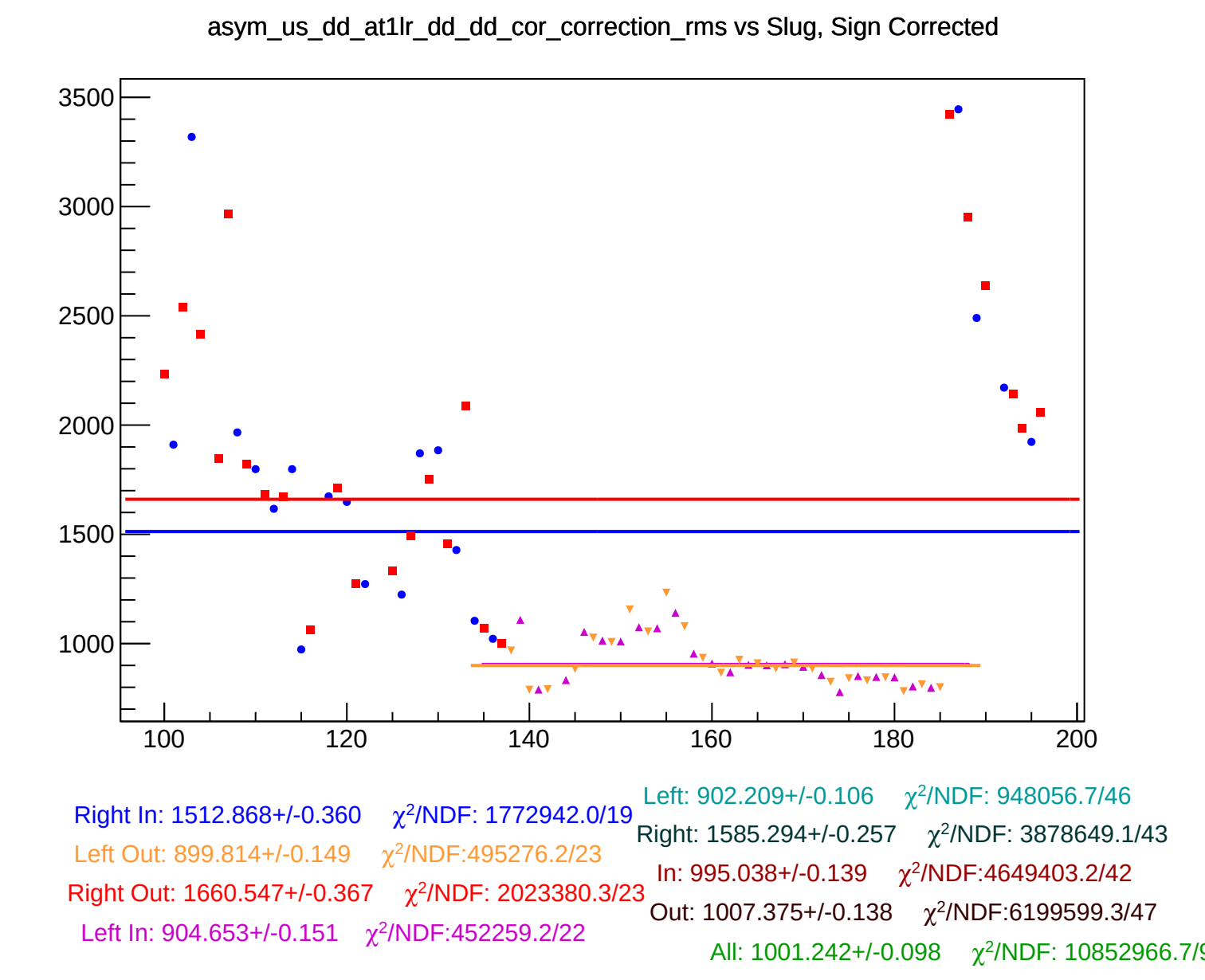
Left: -398.741+/-149.837 $\chi^2$/NDF: 102.3/46

Right: -79.939+/-363.876 $\chi^2$/NDF: 45.7/43

In: -90.656+/-196.505 $\chi^2$/NDF:56.0/42

Out: -611.393+/-195.379 $\chi^2$/NDF:89.1/47

All: -352.521+/-138.550 $\chi^2$/NDF: 148.6/90


asym_us_dd_at1lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected
3500
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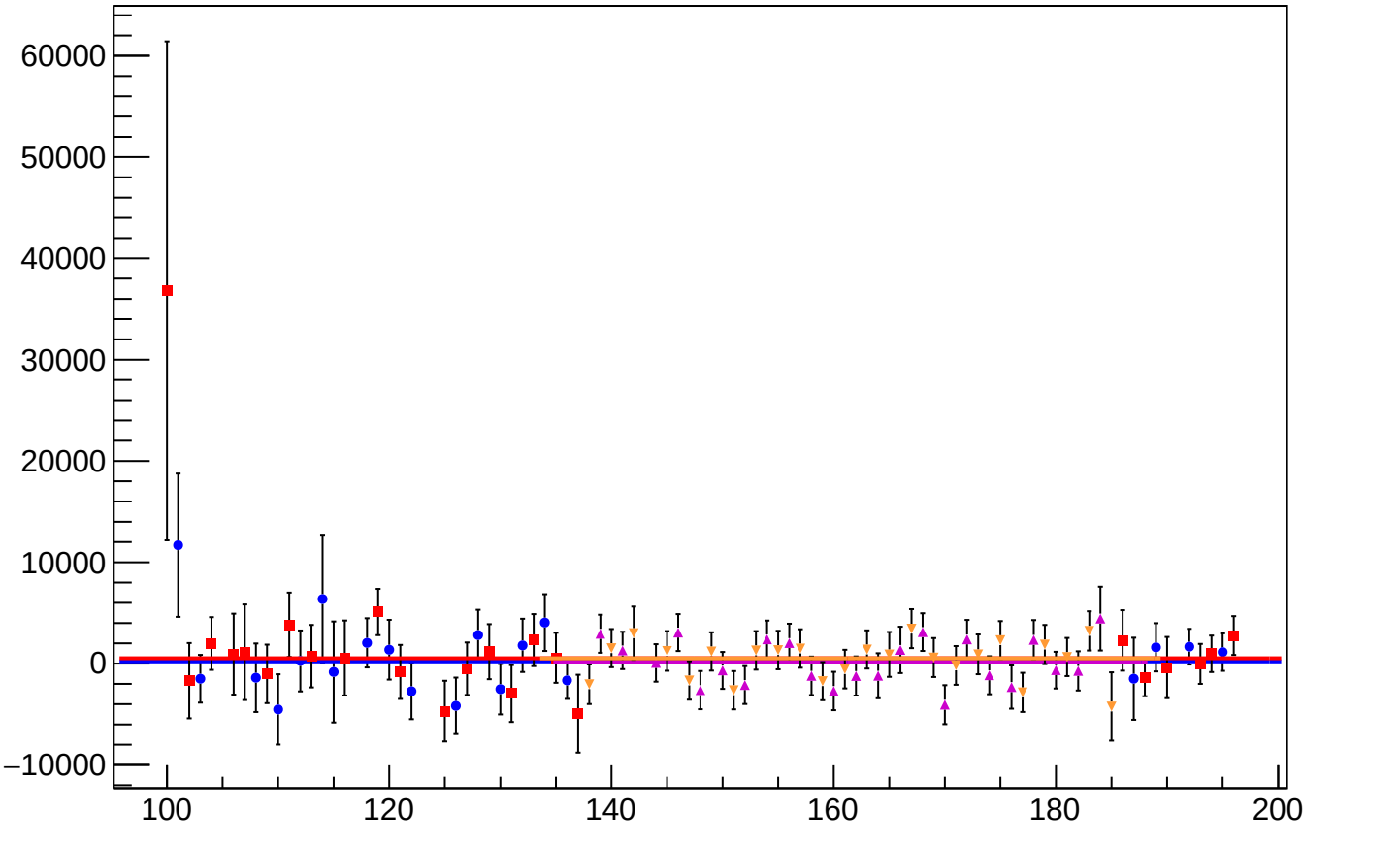
Right In: 1512.868+/-0.360 χ²/NDF: 1772942.0/19
Left Out: 899.814+/-0.149 χ²/NDF:495276.2/23
Right Out: 1660.547+/-0.367 χ²/NDF: 2023380.3/23
Left In: 904.653+/-0.151 χ²/NDF:452259.2/22
Left: 902.209+/-0.106 χ²/NDF: 948056.7/46
Right: 1585.294+/-0.257 χ²/NDF: 3878649.1/43
In: 995.038+/-0.139 χ²/NDF:4649403.2/42
Out: 1007.375+/-0.138 χ²/NDF:6199599.3/47
All: 1001.242+/-0.098 χ²/NDF: 10852966.7/9




Right In: 217.102+/-593.379 $\chi^2$/NDF: 17.6/19

Left Out: 519.957+/-401.705 $\chi^2$/NDF:20.8/23

Right Out: 526.489+/-549.445 $\chi^2$/NDF: 18.7/23

Left In: 126.091+/-404.630 $\chi^2$/NDF:29.5/22

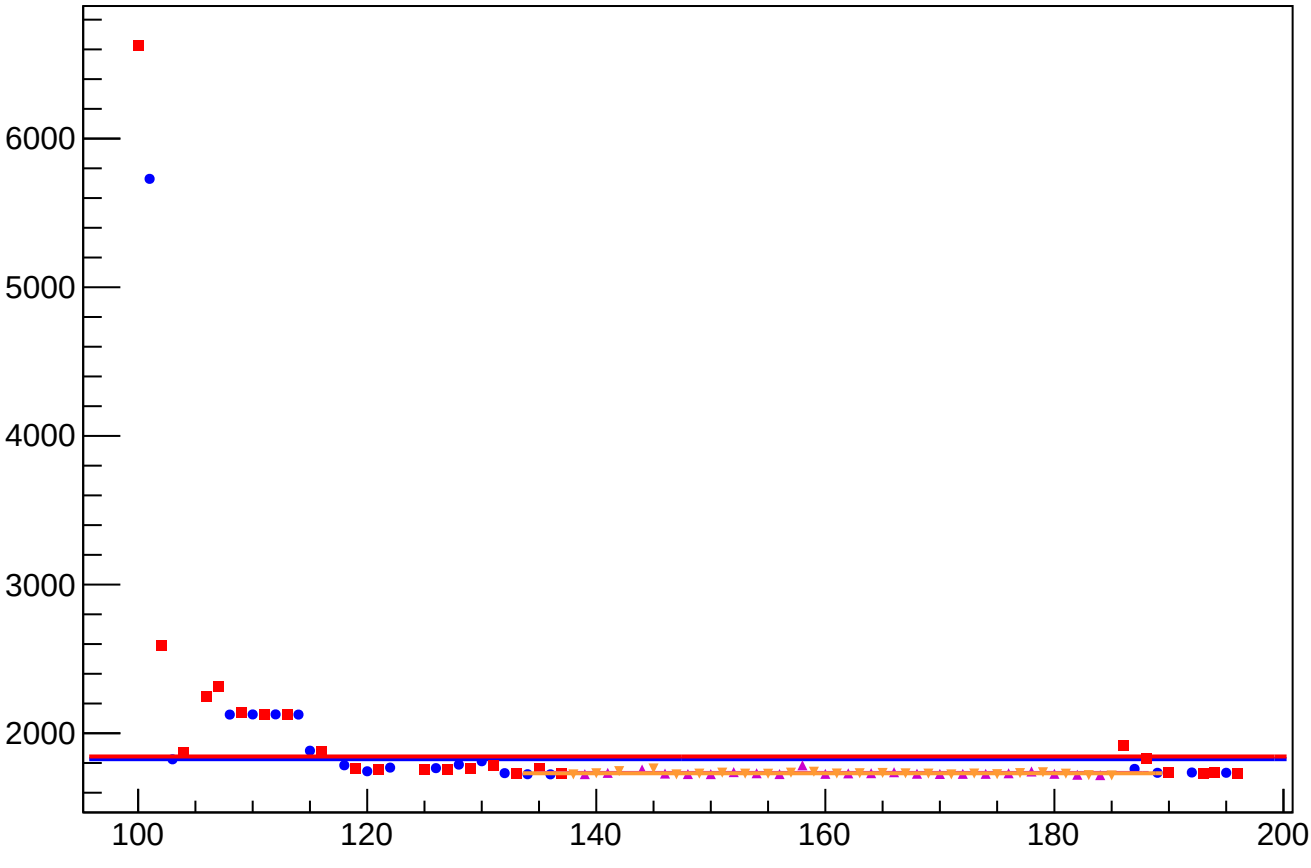
Left: 324.453+/-285.077 $\chi^2$/NDF: 50.7/46

Right: 383.672+/-403.155 $\chi^2$/NDF: 36.5/43

In: 154.979+/-334.302 $\chi^2$/NDF:47.1/42

Out: 522.232+/-324.280 $\chi^2$/NDF:39.5/47

All: 344.193+/-232.763 $\chi^2$/NDF: 87.3/90




Right In: 1825.523+/-0.420 $\chi^2$/NDF: 693949.2/19

Left Out: 1730.847+/-0.284 $\chi^2$/NDF:969.7/23

Right Out: 1843.770+/-0.389 $\chi^2$/NDF: 295043.2/23

Left In: 1733.007+/-0.286 $\chi^2$/NDF:2237.4/22

Left: 1731.919+/-0.202 $\chi^2$/NDF: 3235.8/46

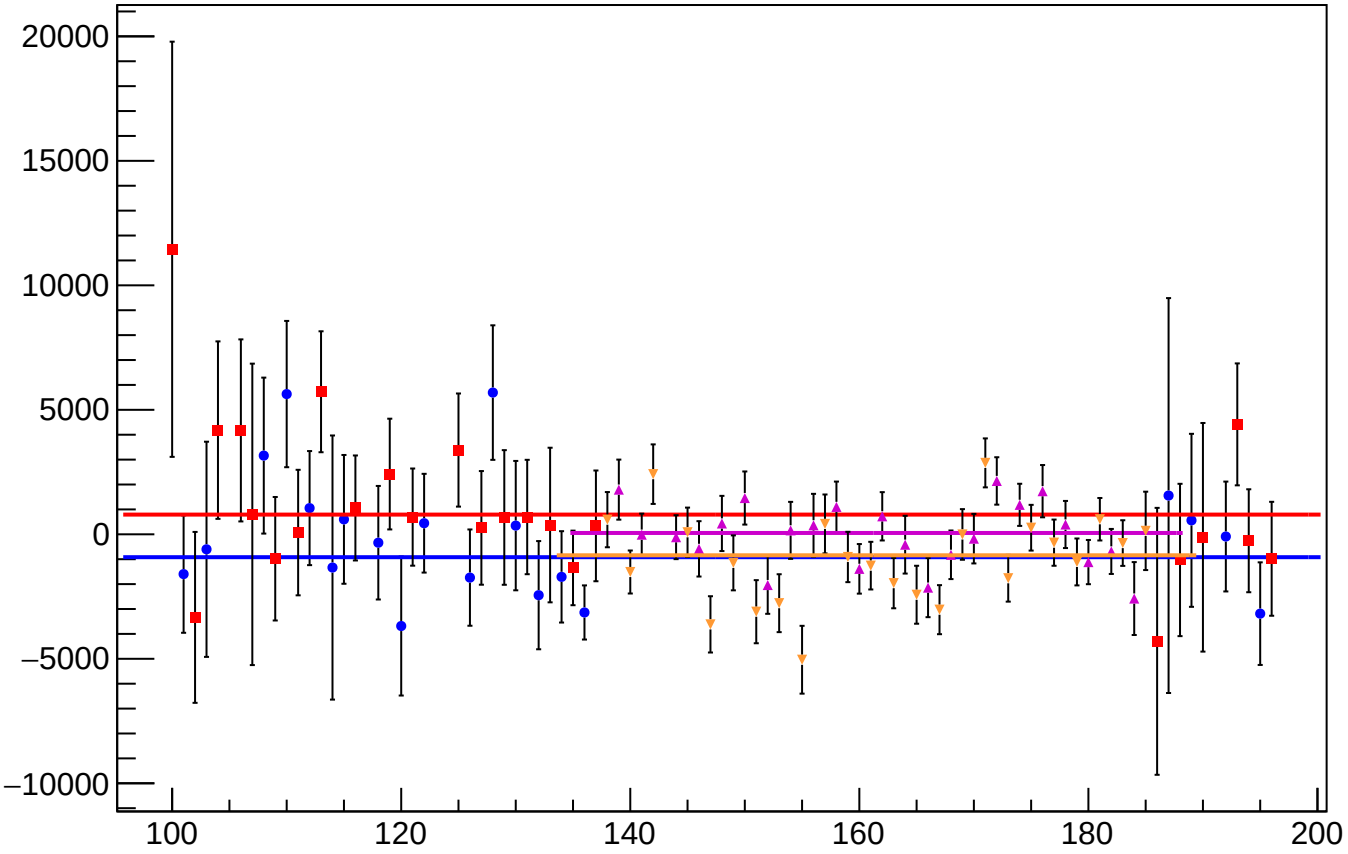
Right: 1835.347+/-0.285 $\chi^2$/NDF: 990010.6/43

In: 1762.372+/-0.236 $\chi^2$/NDF:729373.3/42

Out: 1770.182+/-0.229 $\chi^2$/NDF:351065.2/47

All: 1766.396+/-0.165 $\chi^2$/NDF: 1081000.8/90

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -918.986+/-509.744 $\chi^2$/NDF: 22.3/19

Left Out: -842.473+/-210.853 $\chi^2$/NDF:62.7/23

Right Out: 791.851+/-519.595 $\chi^2$/NDF: 17.9/23

Left In: 53.927+/-212.965 $\chi^2$/NDF:30.6/22

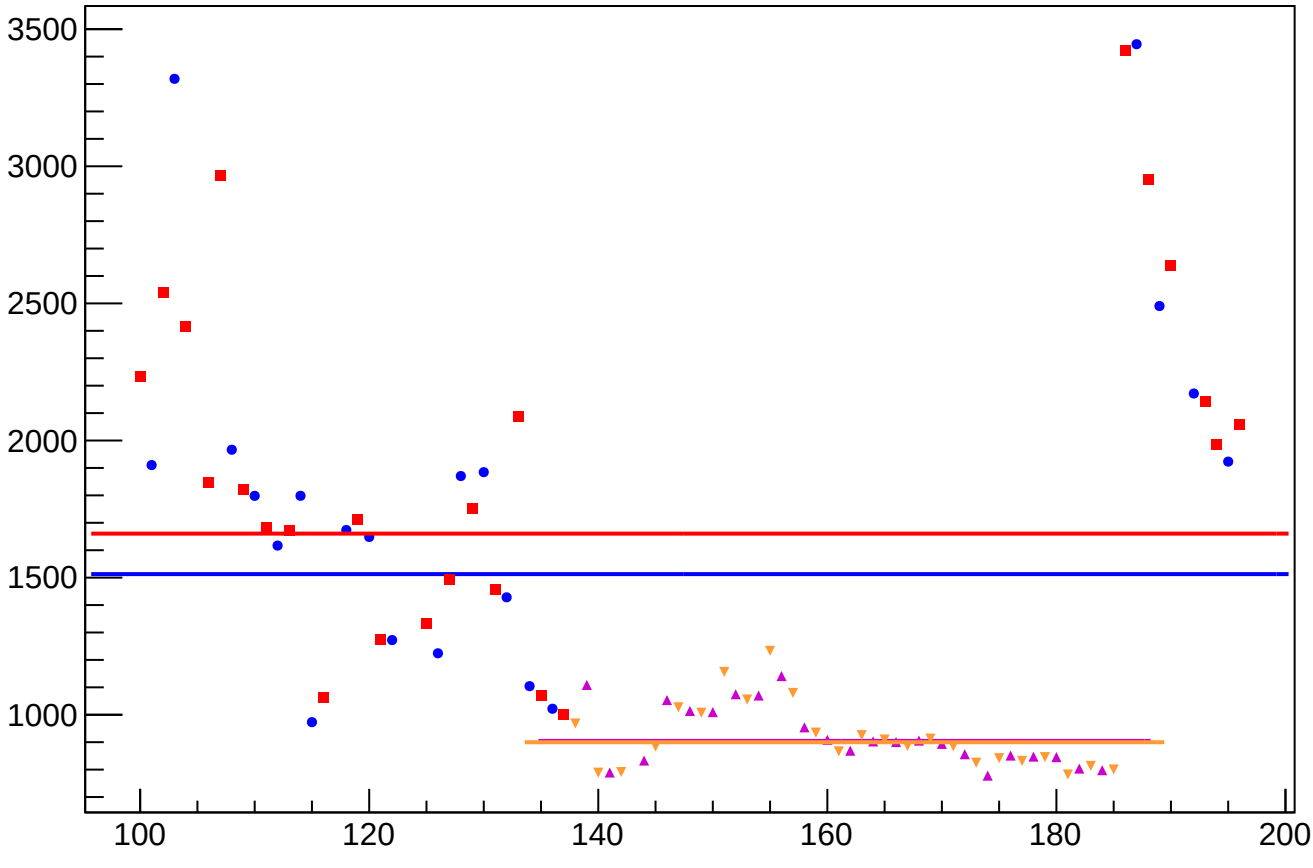
Left: -398.741+/-149.837 $\chi^2$/NDF: 102.3/46

Right: -79.939+/-363.876 $\chi^2$/NDF: 45.7/43

In: -90.656+/-196.505 $\chi^2$/NDF:56.0/42

Out: -611.393+/-195.379 $\chi^2$/NDF:89.1/47

All: -352.521+/-138.550 $\chi^2$/NDF: 148.6/90


asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
3500
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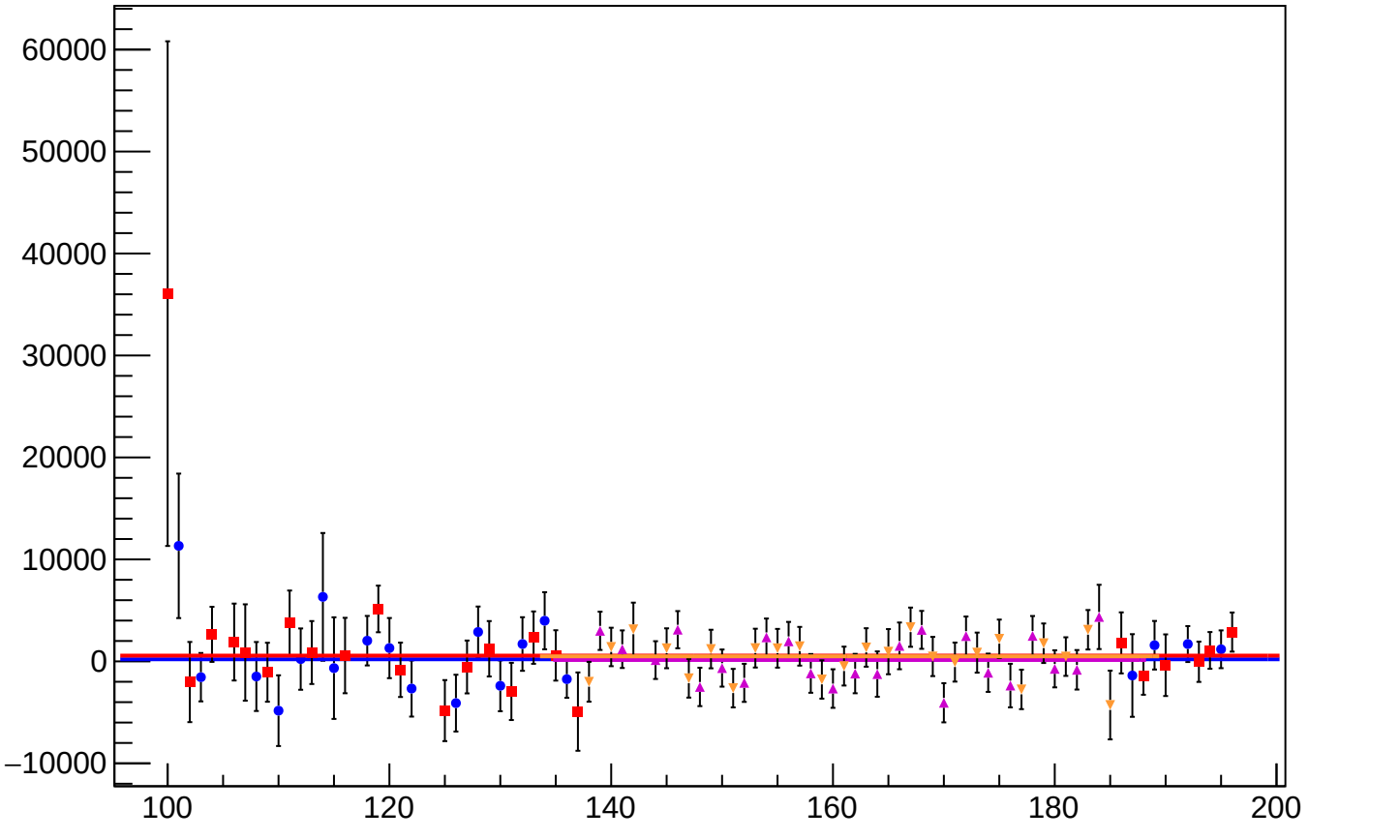
Right In: 1512.868+/-0.360 χ²/NDF: 1772942.0/19
Left Out: 899.814+/-0.149 χ²/NDF:495276.2/23
Right Out: 1660.547+/-0.367 χ²/NDF: 2023380.3/23
Left In: 904.653+/-0.151 χ²/NDF:452259.2/22
Left: 902.209+/-0.106 χ²/NDF: 948056.7/46
Right: 1585.294+/-0.257 χ²/NDF: 3878649.1/43
In: 995.038+/-0.139 χ²/NDF:4649403.2/42
Out: 1007.375+/-0.138 χ²/NDF:6199599.3/47
All: 1001.242+/-0.098 χ²/NDF: 10852966.7/9




Right In: 206.972+/-594.014 $\chi^2$/NDF: 17.5/19

Left Out: 494.897+/-402.069 $\chi^2$/NDF:20.1/23

Right Out: 563.697+/-550.772 $\chi^2$/NDF: 19.4/23

Left In: 137.162+/-404.995 $\chi^2$/NDF:29.6/22

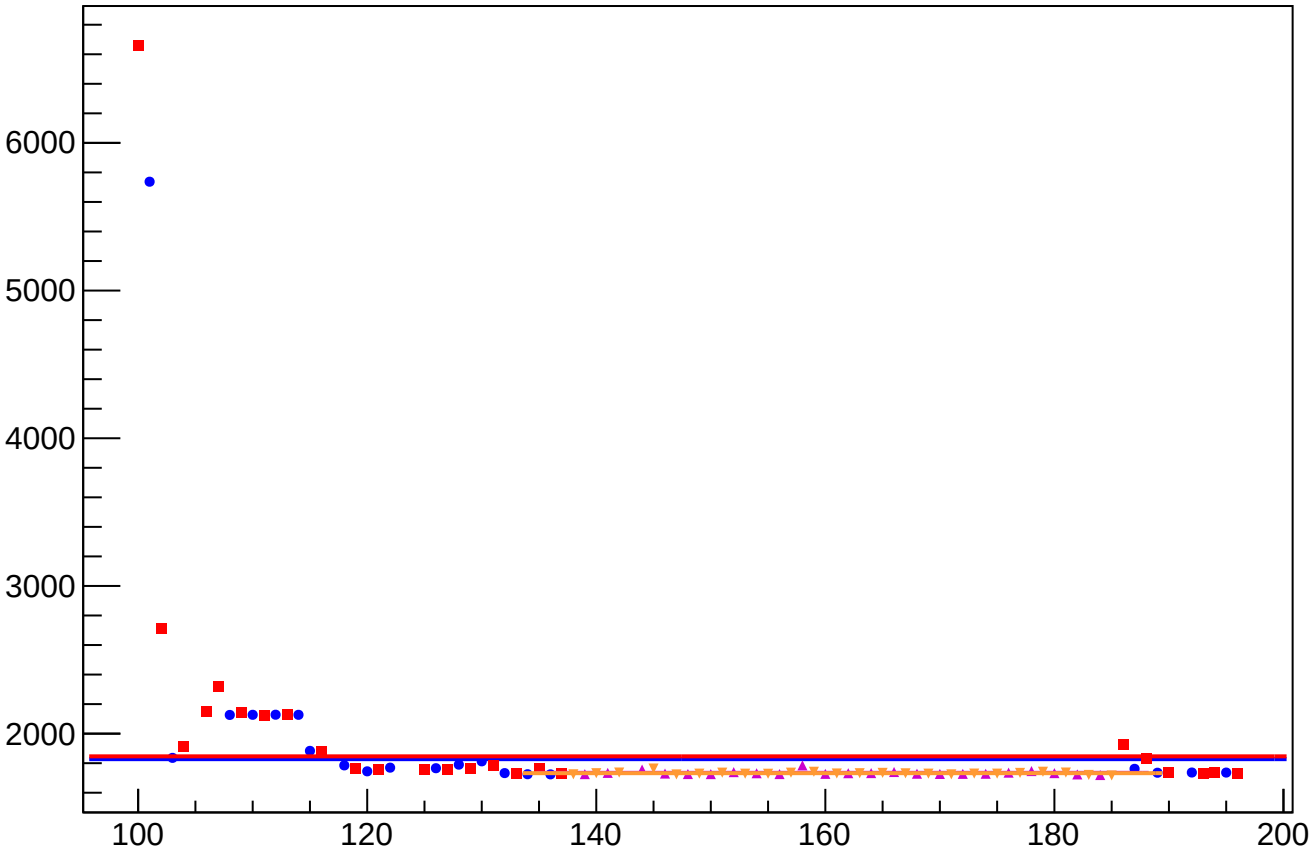
Left: 317.326+/-285.335 $\chi^2$/NDF: 50.0/46

Right: 398.790+/-403.877 $\chi^2$/NDF: 37.2/43

In: 159.315+/-334.621 $\chi^2$/NDF:47.1/42

Out: 518.815+/-324.745 $\chi^2$/NDF:39.5/47

All: 344.449+/-233.043 $\chi^2$/NDF: 87.2/90




Right In: 1827.256+/-0.420 $\chi^2$/NDF: 694348.2/19

Left Out: 1732.389+/-0.284 $\chi^2$/NDF:910.8/23

Right Out: 1846.296+/-0.389 $\chi^2$/NDF: 305602.9/23

Left In: 1734.568+/-0.286 $\chi^2$/NDF:2215.7/22

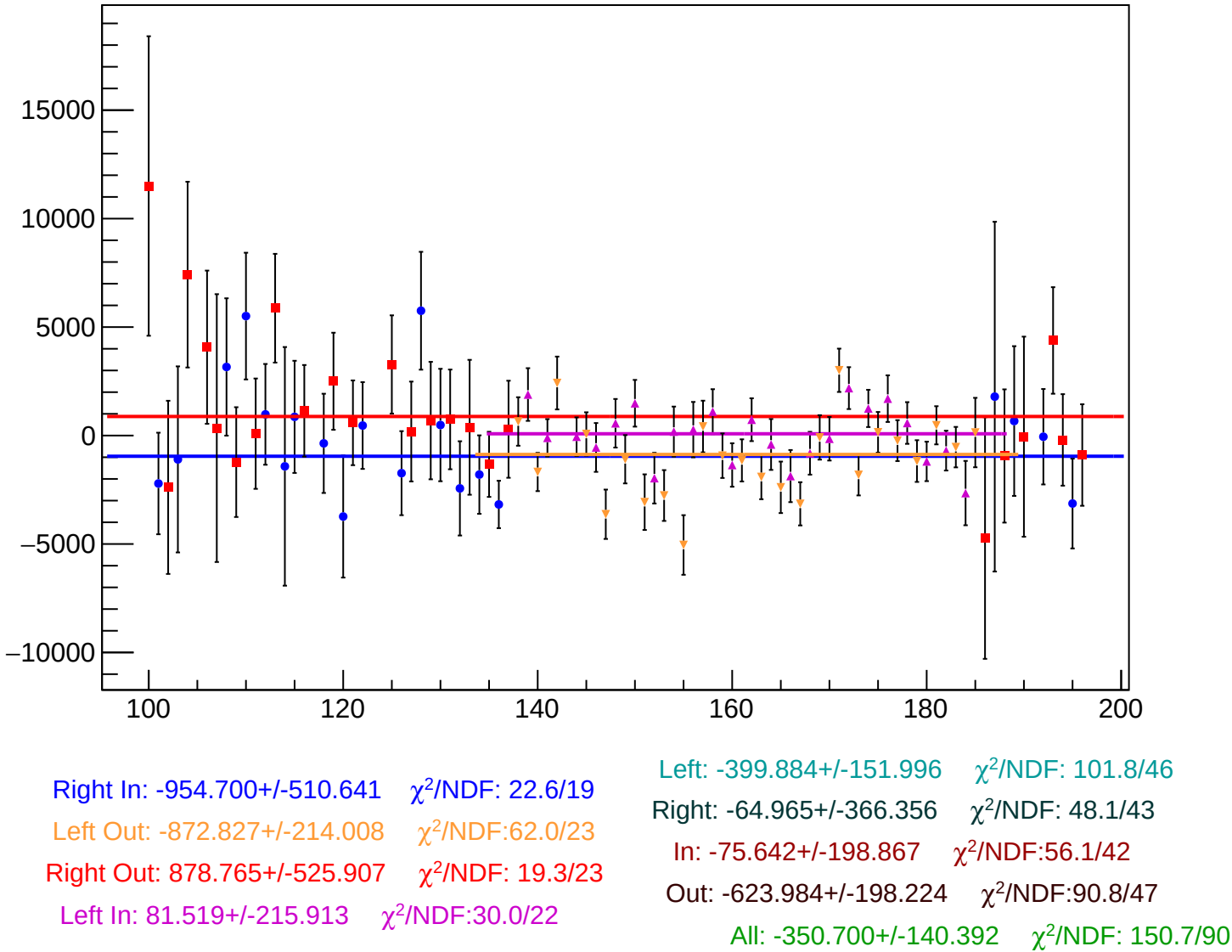
Left: 1733.471+/-0.202 $\chi^2$/NDF: 3155.7/46

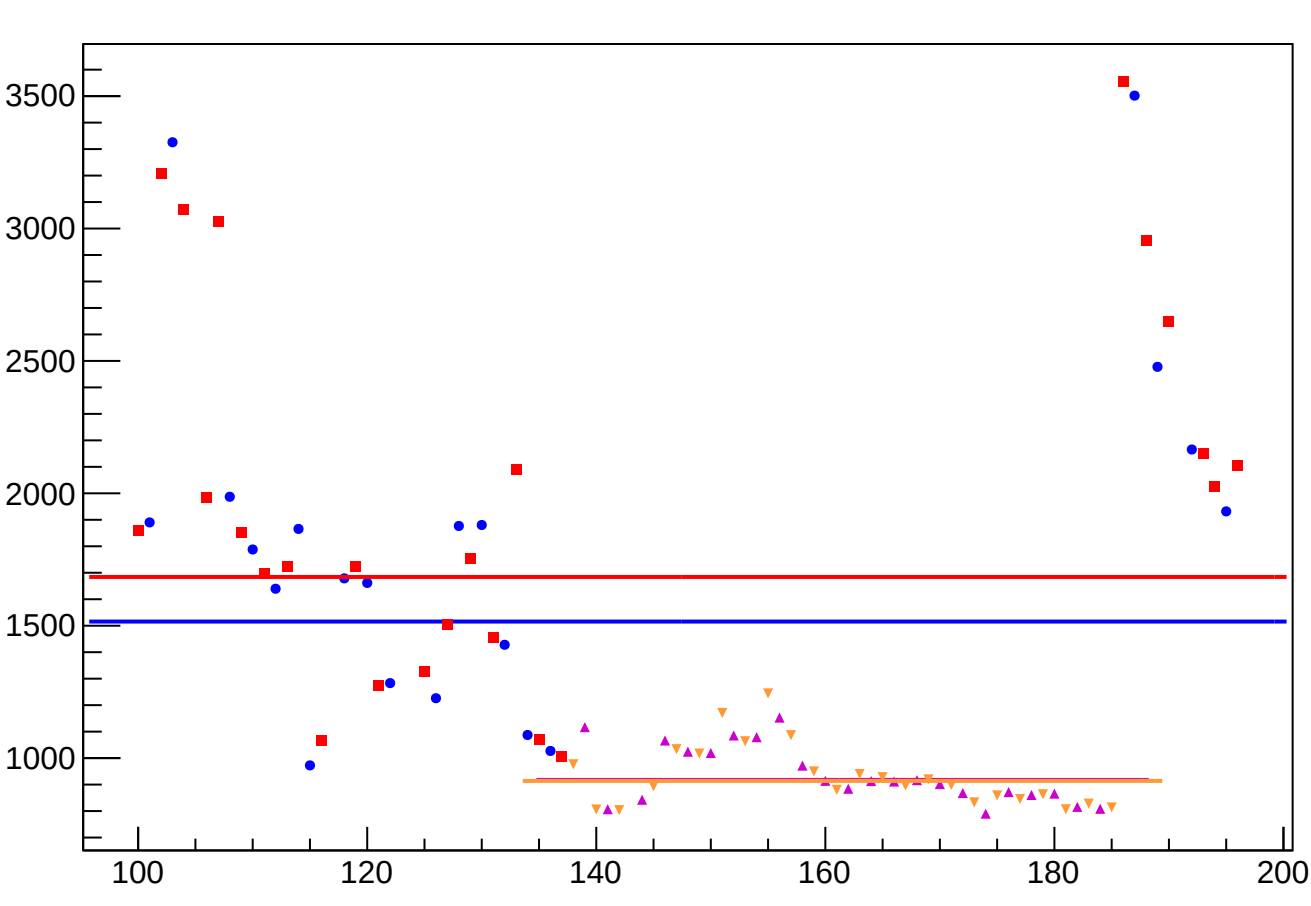
Right: 1837.494+/-0.286 $\chi^2$/NDF: 1001056.1/43

In: 1763.981+/-0.237 $\chi^2$/NDF:729806.0/42

Out: 1771.988+/-0.230 $\chi^2$/NDF:362318.2/47

All: 1768.105+/-0.165 $\chi^2$/NDF: 1092714.0/90


asym_us_dd_at1lr_dd_dd_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -954.700+/-510.641 χ²/NDF: 22.6/19
Left Out: -872.827+/-214.008 χ²/NDF:62.0/23
Right Out: 878.765+/-525.907 χ²/NDF: 19.3/23
Left In: 81.519+/-215.913 χ²/NDF:30.0/22
Left: -399.884+/-151.996 χ²/NDF: 101.8/46
Right: -64.965+/-366.356 χ²/NDF: 48.1/43
In: -75.642+/-198.867 χ²/NDF:56.1/42
Out: -623.984+/-198.224 χ²/NDF:90.8/47
All: -350.700+/-140.392 χ²/NDF: 150.7/90




Right In: 1515.708+/-0.361 $\chi^2$/NDF: 1780981.1/19

Left Out: 913.899+/-0.151 $\chi^2$/NDF:462850.2/23

Right Out: 1684.172+/-0.372 $\chi^2$/NDF: 2360530.6/23

Left In: 917.674+/-0.153 $\chi^2$/NDF:430498.5/22

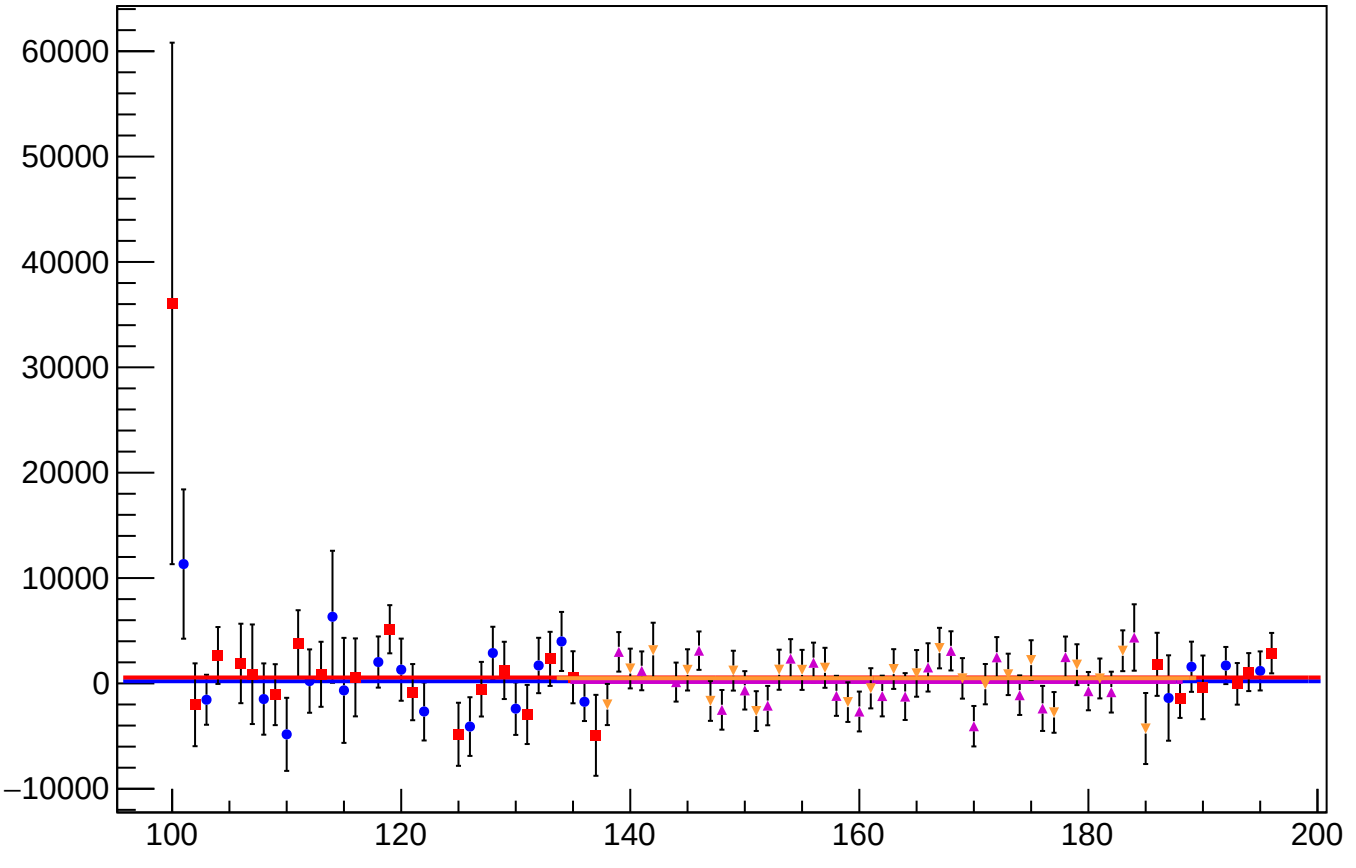
Left: 915.770+/-0.107 $\chi^2$/NDF: 893657.1/46

Right: 1597.460+/-0.259 $\chi^2$/NDF: 4247144.7/43

In: 1008.377+/-0.141 $\chi^2$/NDF:4538587.6/42

Out: 1023.329+/-0.140 $\chi^2$/NDF:6504287.2/47

All: 1015.877+/-0.099 $\chi^2$/NDF: 11048546.6/9




Right In: 206.973+/-594.014 $\chi^2$/NDF: 17.5/19

Left Out: 494.897+/-402.069 $\chi^2$/NDF:20.1/23

Right Out: 563.696+/-550.772 $\chi^2$/NDF: 19.4/23

Left In: 137.163+/-404.995 $\chi^2$/NDF:29.6/22

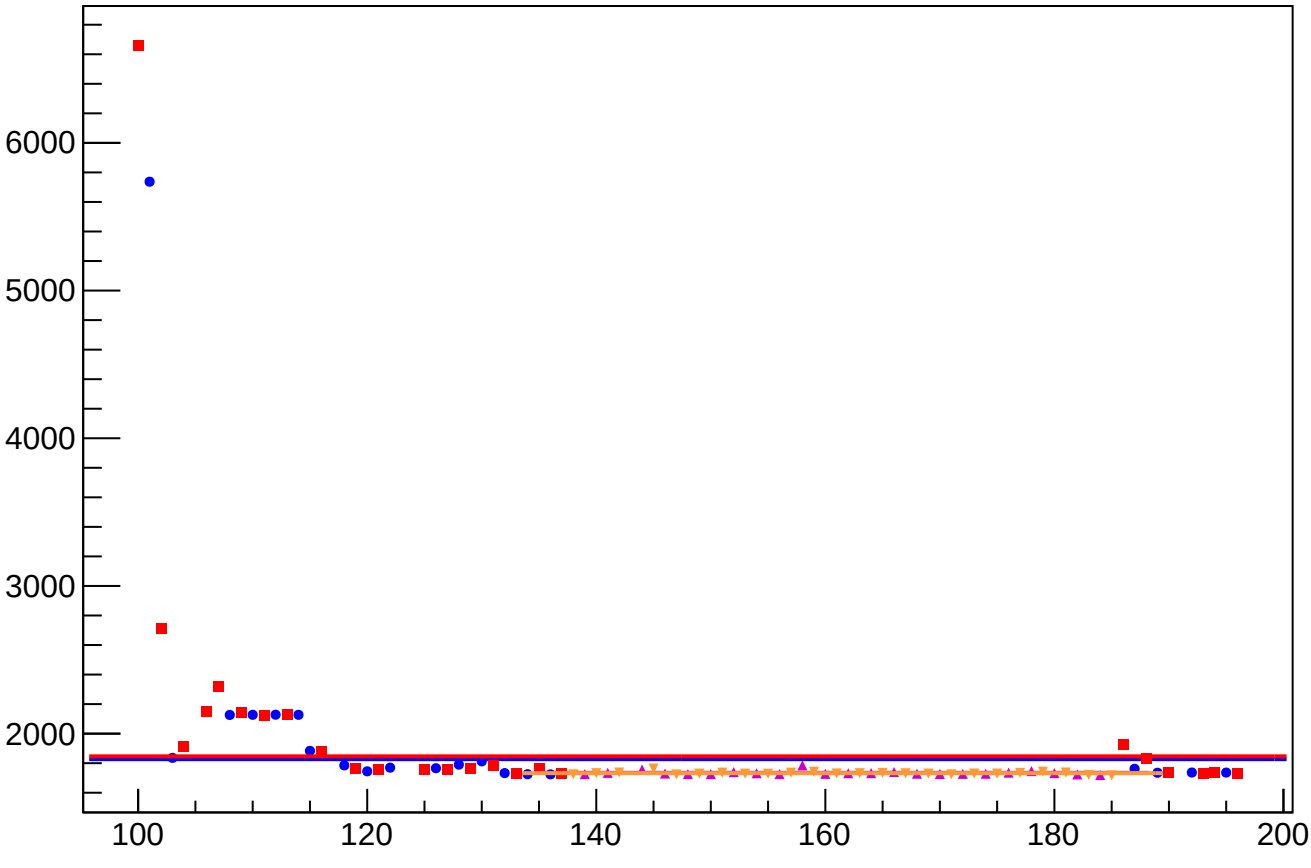
Left: 317.327+/-285.335 $\chi^2$/NDF: 50.0/46

Right: 398.790+/-403.877 $\chi^2$/NDF: 37.2/43

In: 159.316+/-334.621 $\chi^2$/NDF:47.1/42

Out: 518.815+/-324.745 $\chi^2$/NDF:39.5/47

All: 344.449+/-233.043 $\chi^2$/NDF: 87.2/90




Right In: 1827.255+/-0.420 $\chi^2$/NDF: 694348.2/19

Left Out: 1732.389+/-0.284 $\chi^2$/NDF:910.8/23

Right Out: 1846.296+/-0.389 $\chi^2$/NDF: 305602.6/23

Left In: 1734.568+/-0.286 $\chi^2$/NDF:2215.7/22

Left: 1733.471+/-0.202 $\chi^2$/NDF: 3155.7/46

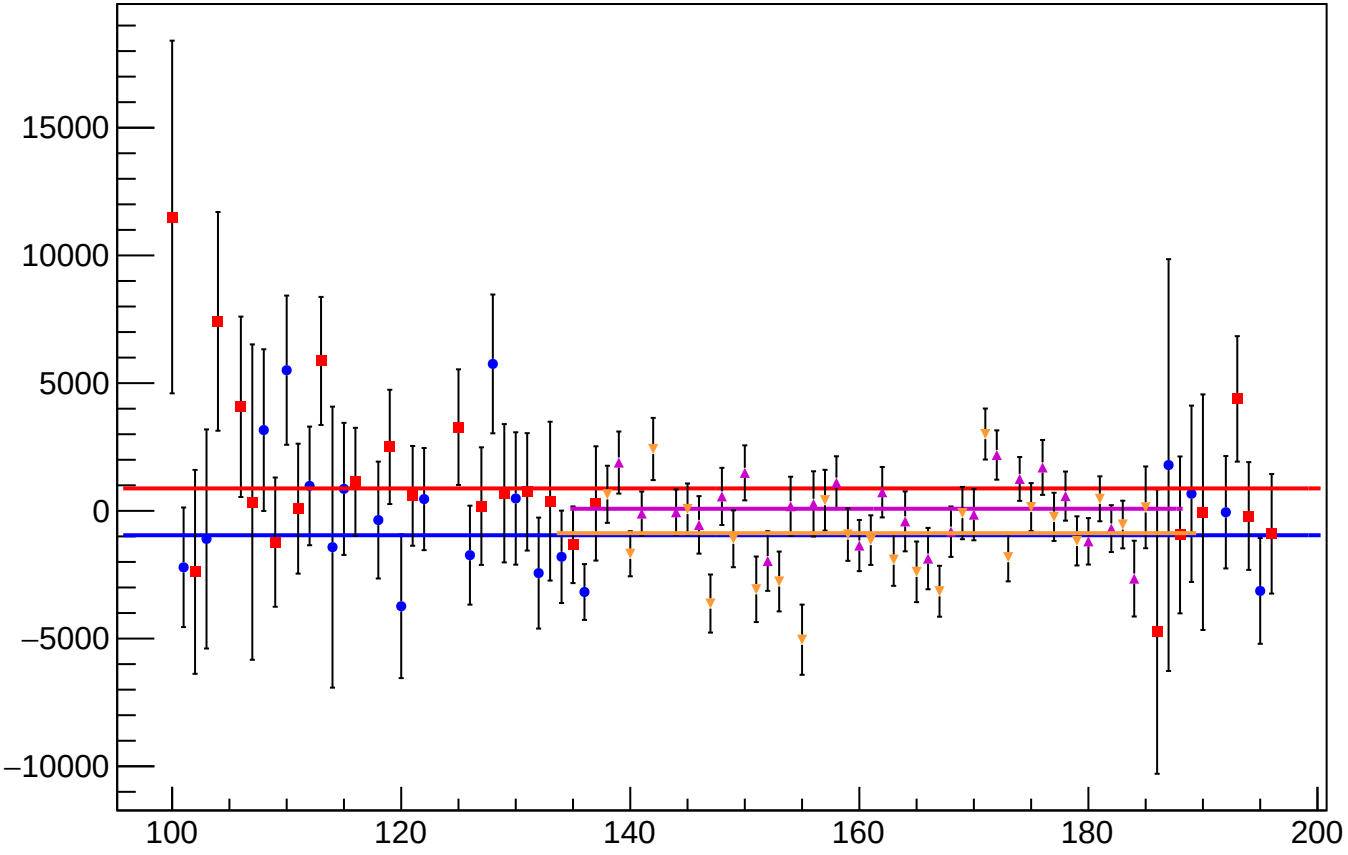
Right: 1837.494+/-0.286 $\chi^2$/NDF: 1001055.8/43

In: 1763.981+/-0.237 $\chi^2$/NDF:729806.0/42

Out: 1771.988+/-0.230 $\chi^2$/NDF:362317.9/47

All: 1768.105+/-0.165 $\chi^2$/NDF: 1092713.6/90

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -954.694+/-510.640 $\chi^2$/NDF: 22.6/19

Left Out: -872.826+/-214.008 $\chi^2$/NDF:62.0/23

Right Out: 878.765+/-525.907 $\chi^2$/NDF: 19.3/23

Left In: 81.518+/-215.913 $\chi^2$/NDF:30.0/22

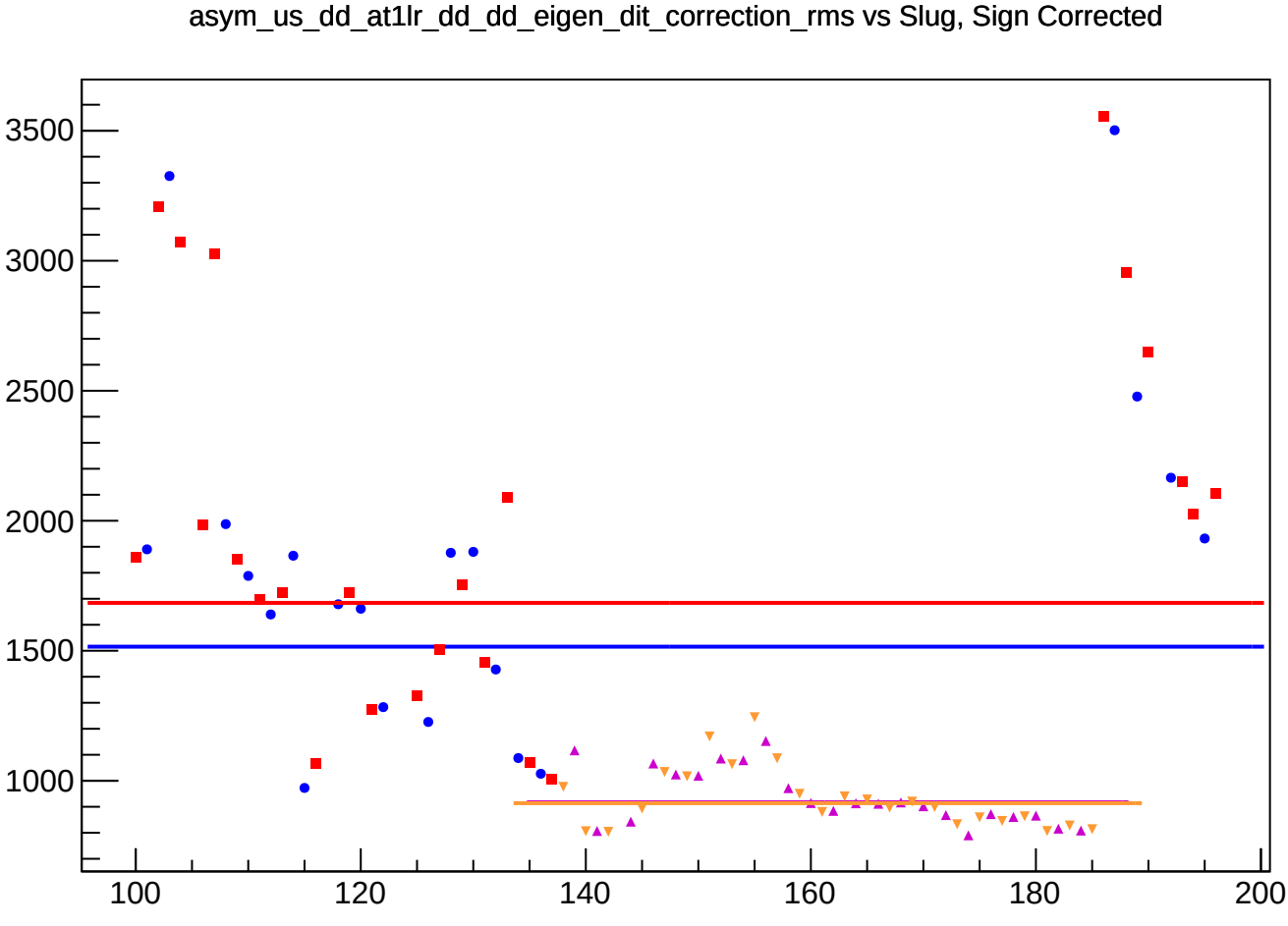
Left: -399.884+/-151.996 $\chi^2$/NDF: 101.8/46

Right: -64.962+/-366.355 $\chi^2$/NDF: 48.1/43

In: -75.642+/-198.867 $\chi^2$/NDF:56.1/42

Out: -623.982+/-198.224 $\chi^2$/NDF:90.8/47

All: -350.700+/-140.392 $\chi^2$/NDF: 150.7/90




Right In: 1515.705+/-0.361 $\chi^2$/NDF: 1780983.7/19

Left Out: 913.898+/-0.151 $\chi^2$/NDF:462858.6/23

Right Out: 1684.170+/-0.372 $\chi^2$/NDF: 2360537.8/23

Left In: 917.674+/-0.153 $\chi^2$/NDF:430509.1/22

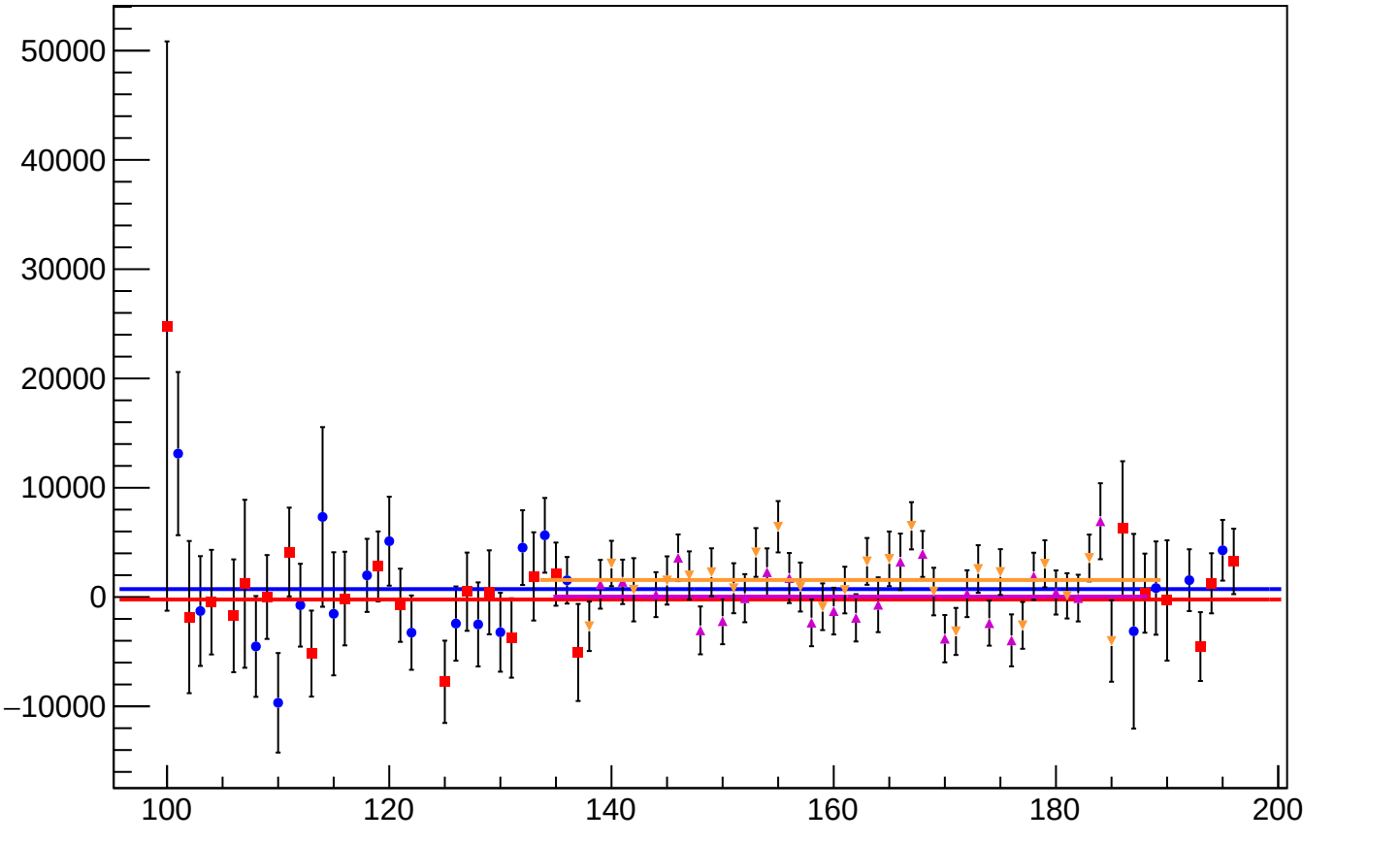
Left: 915.769+/-0.107 $\chi^2$/NDF: 893676.2/46

Right: 1597.457+/-0.259 $\chi^2$/NDF: 4247155.6/43

In: 1008.376+/-0.141 $\chi^2$/NDF:4538587.1/42

Out: 1023.329+/-0.140 $\chi^2$/NDF:6504290.2/47

All: 1015.877+/-0.099 $\chi^2$/NDF: 11048549.2/9




Right In: 725.090+/-830.714 $\chi^2$/NDF: 21.2/19

Left Out: 1561.357+/-456.883 $\chi^2$/NDF:31.2/23

Right Out: -225.199+/-800.959 $\chi^2$/NDF: 16.5/23

Left In: 39.885+/-459.938 $\chi^2$/NDF:27.8/22

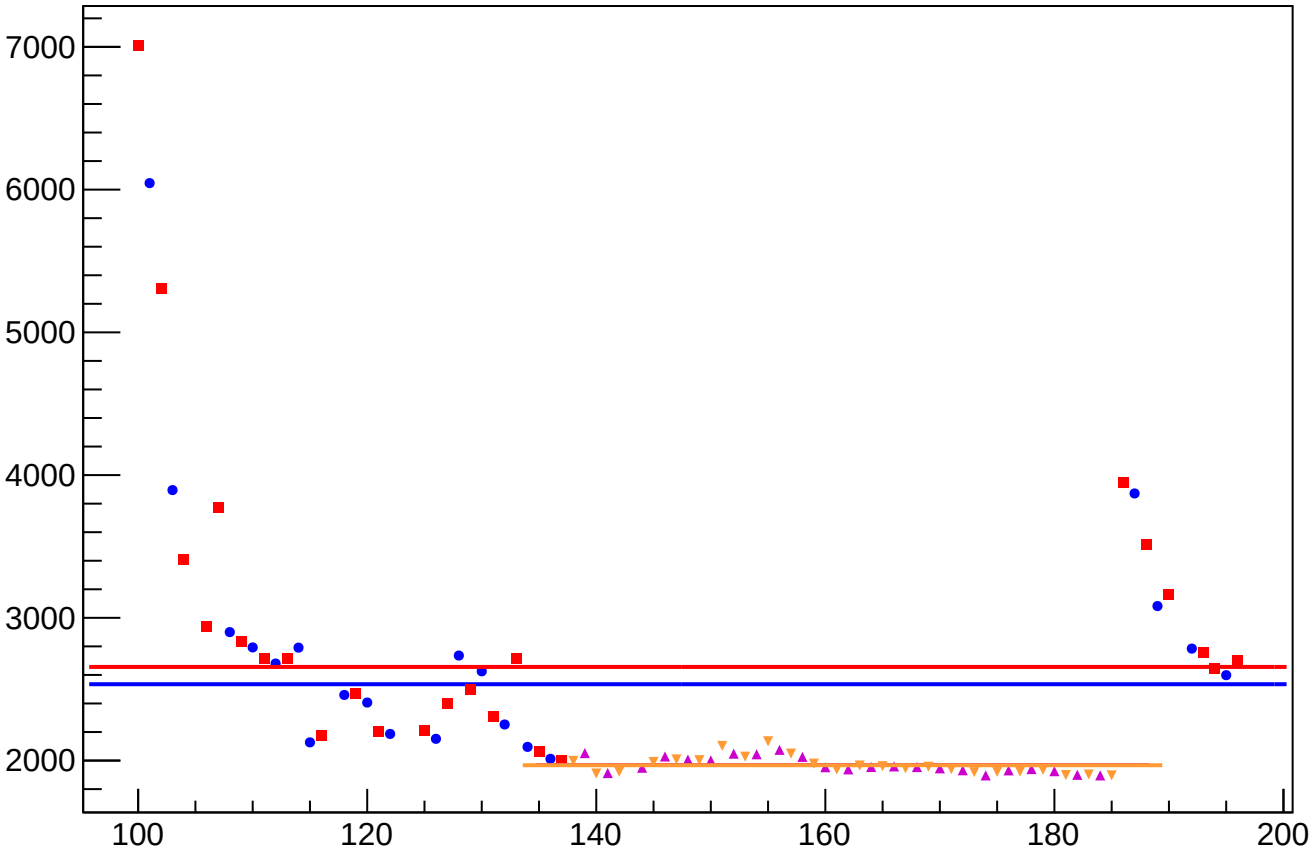
Left: 805.690+/-324.140 $\chi^2$/NDF: 64.6/46

Right: 232.621+/-576.596 $\chi^2$/NDF: 38.4/43

In: 200.649+/-402.380 $\chi^2$/NDF:49.5/42

Out: 1122.760+/-396.858 $\chi^2$/NDF:51.5/47

All: 668.076+/-282.553 $\chi^2$/NDF: 103.7/90




Right In: 2534.928+/-0.587 $\chi^2$/NDF: 940643.1/19

Left Out: 1967.416+/-0.323 $\chi^2$/NDF:34217.6/23

Right Out: 2656.079+/-0.566 $\chi^2$/NDF: 924473.6/23

Left In: 1969.022+/-0.325 $\chi^2$/NDF:26523.0/22

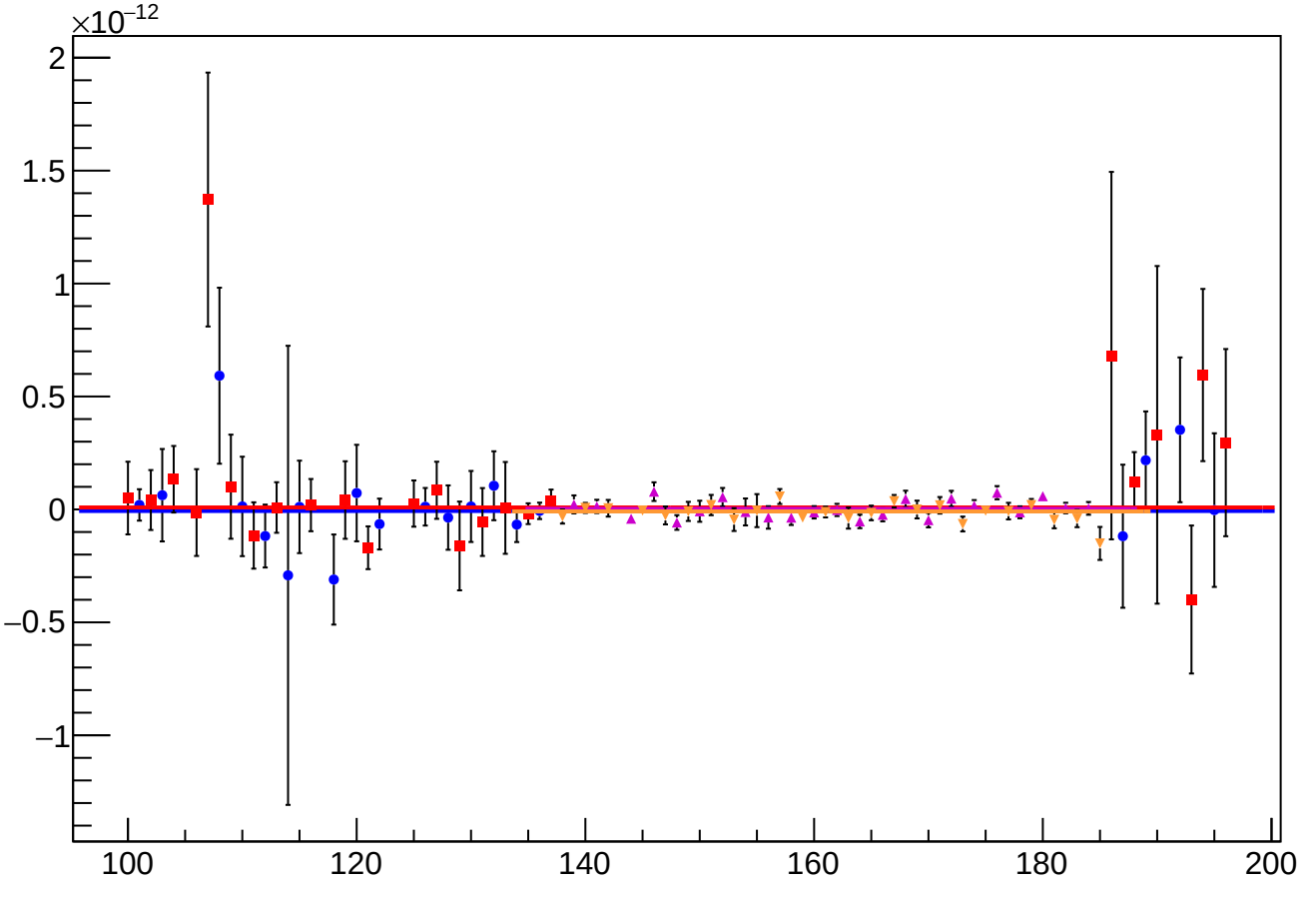
Left: 1968.213+/-0.229 $\chi^2$/NDF: 60752.9/46

Right: 2597.712+/-0.408 $\chi^2$/NDF: 1887161.5/43

In: 2101.796+/-0.285 $\chi^2$/NDF:1677545.5/42

Out: 2136.482+/-0.281 $\chi^2$/NDF:2074234.4/47

All: 2119.379+/-0.200 $\chi^2$/NDF: 3759313.4/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 9.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:20.8/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.3/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:38.9/22

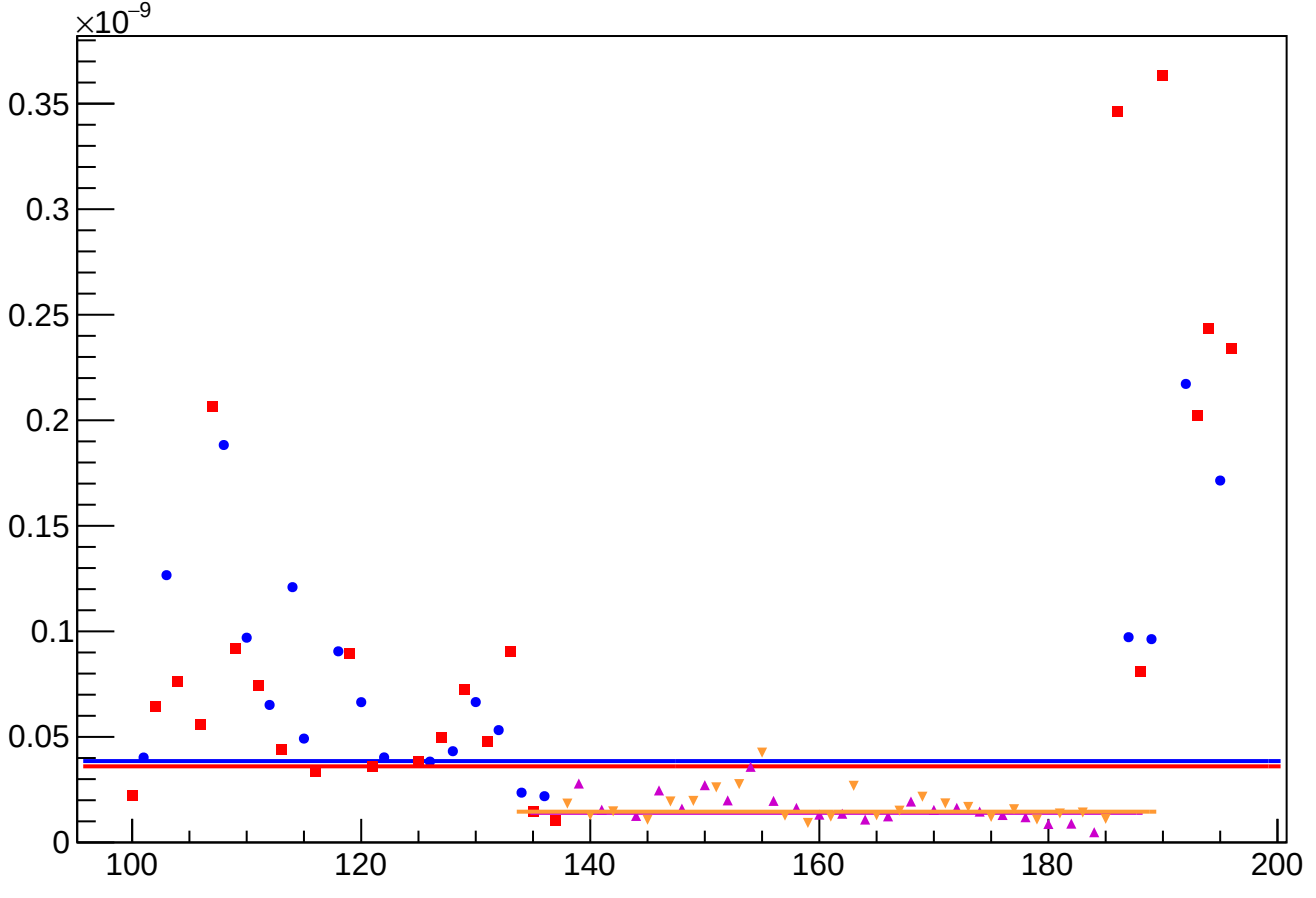
Left: -0.000+/-0.000 $\chi^2$/NDF: 61.3/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.3/43

In: 0.000+/-0.000 $\chi^2$/NDF:48.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:40.6/47

All: -0.000+/-0.000 $\chi^2$/NDF: 90.7/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2785308.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1178225.5/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4618969.5/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:1430937.9/22

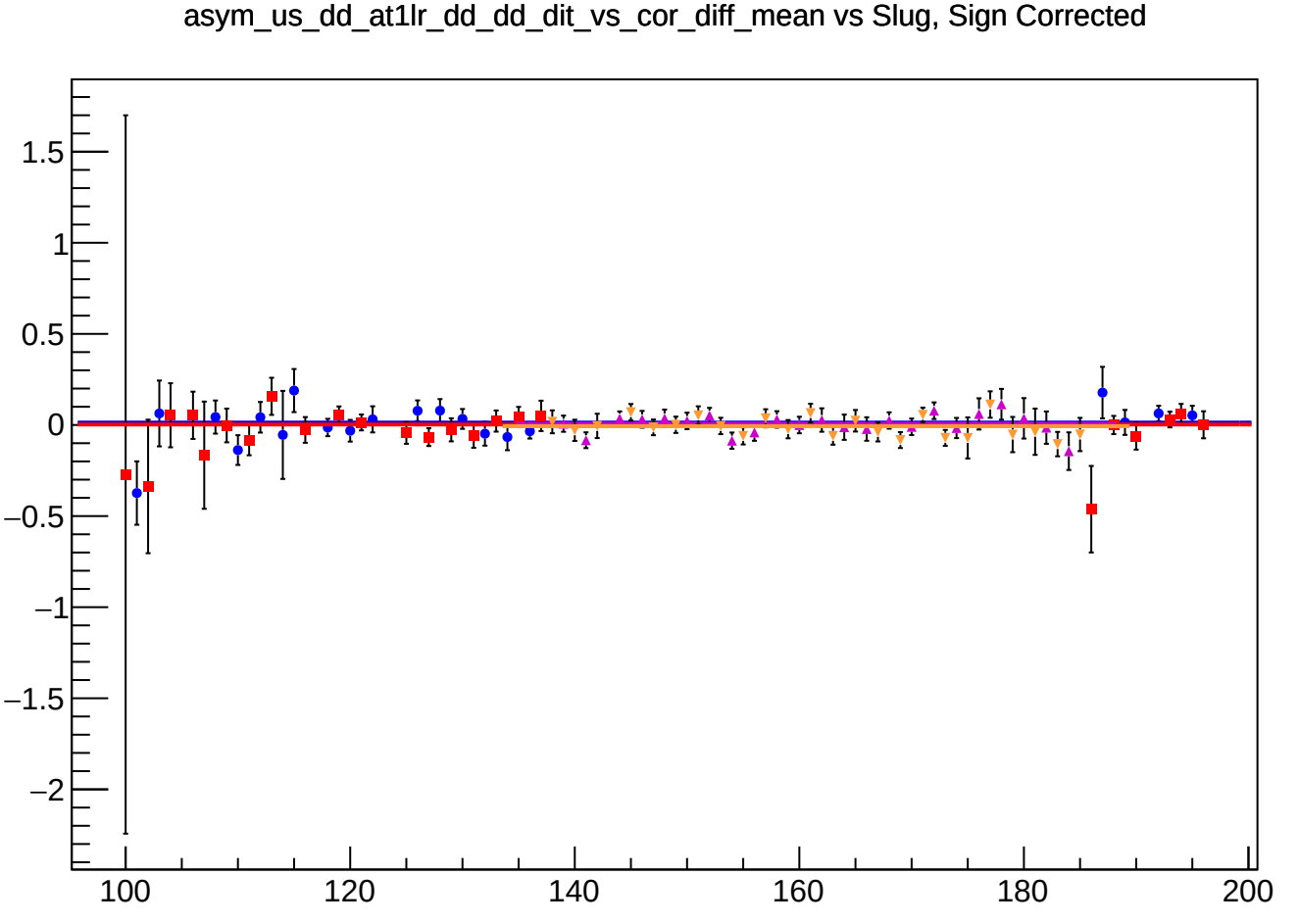
Left: 0.000+/-0.000 $\chi^2$/NDF: 2616610.3/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 7415126.0/43

In: 0.000+/-0.000 $\chi^2$/NDF:6142388.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7316240.1/47

All: 0.000+/-0.000 $\chi^2$/NDF: 13464208.1/90




Right In: 0.013+/-0.015 $\chi^2$/NDF: 21.2/19

Left Out: -0.007+/-0.011 $\chi^2$/NDF:23.9/23

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 16.9/23

Left In: 0.006+/-0.011 $\chi^2$/NDF:20.1/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 44.7/46

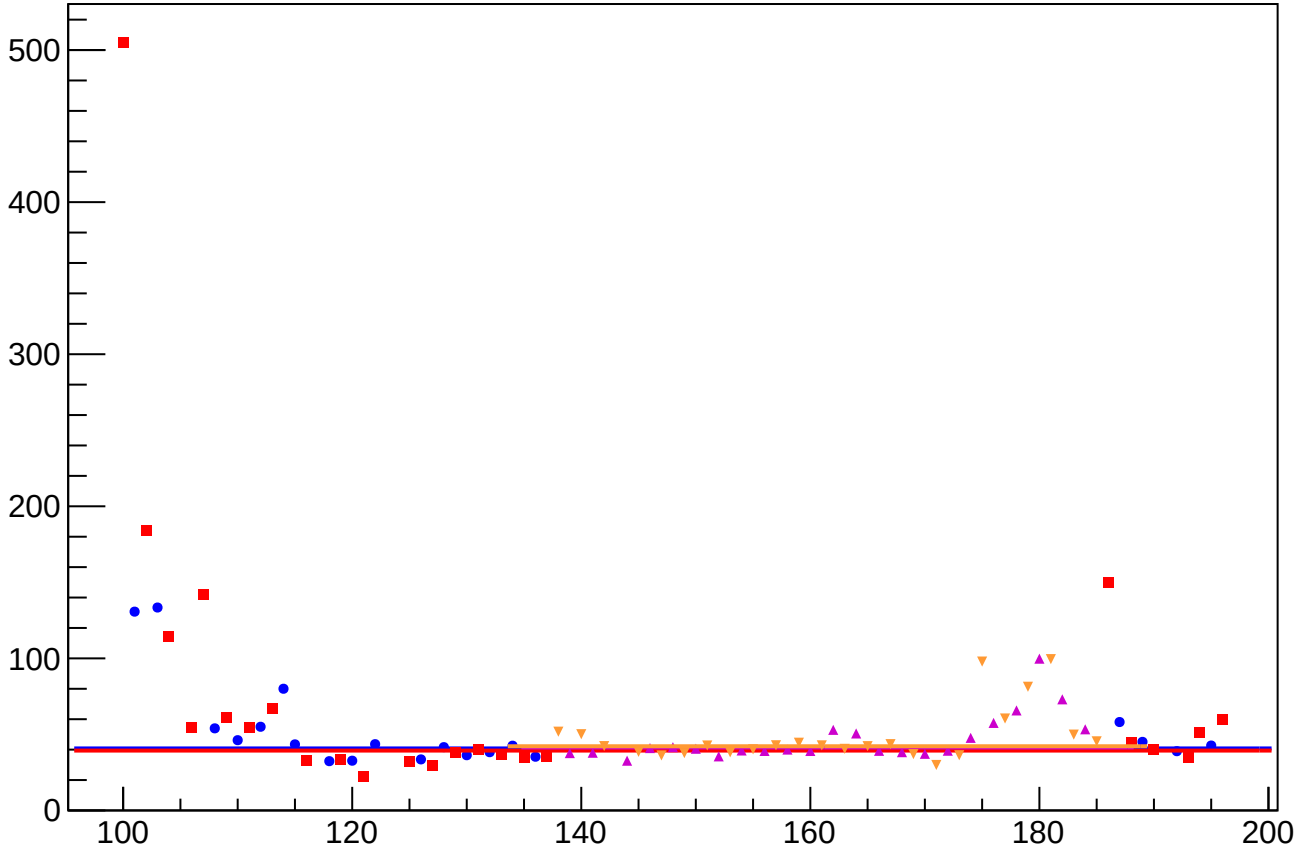
Right: 0.008+/-0.010 $\chi^2$/NDF: 38.4/43

In: 0.009+/-0.009 $\chi^2$/NDF:41.4/42

Out: -0.003+/-0.009 $\chi^2$/NDF:41.1/47

All: 0.003+/-0.006 $\chi^2$/NDF: 83.5/90

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.778+/-0.010 $\chi^2$/NDF: 1455710.2/19

Left Out: 42.208+/-0.008 $\chi^2$/NDF:1819371.1/23

Right Out: 39.376+/-0.010 $\chi^2$/NDF: 2598913.3/23

Left In: 41.421+/-0.008 $\chi^2$/NDF:1412177.5/22

Left: 41.808+/-0.005 $\chi^2$/NDF: 3236828.7/46

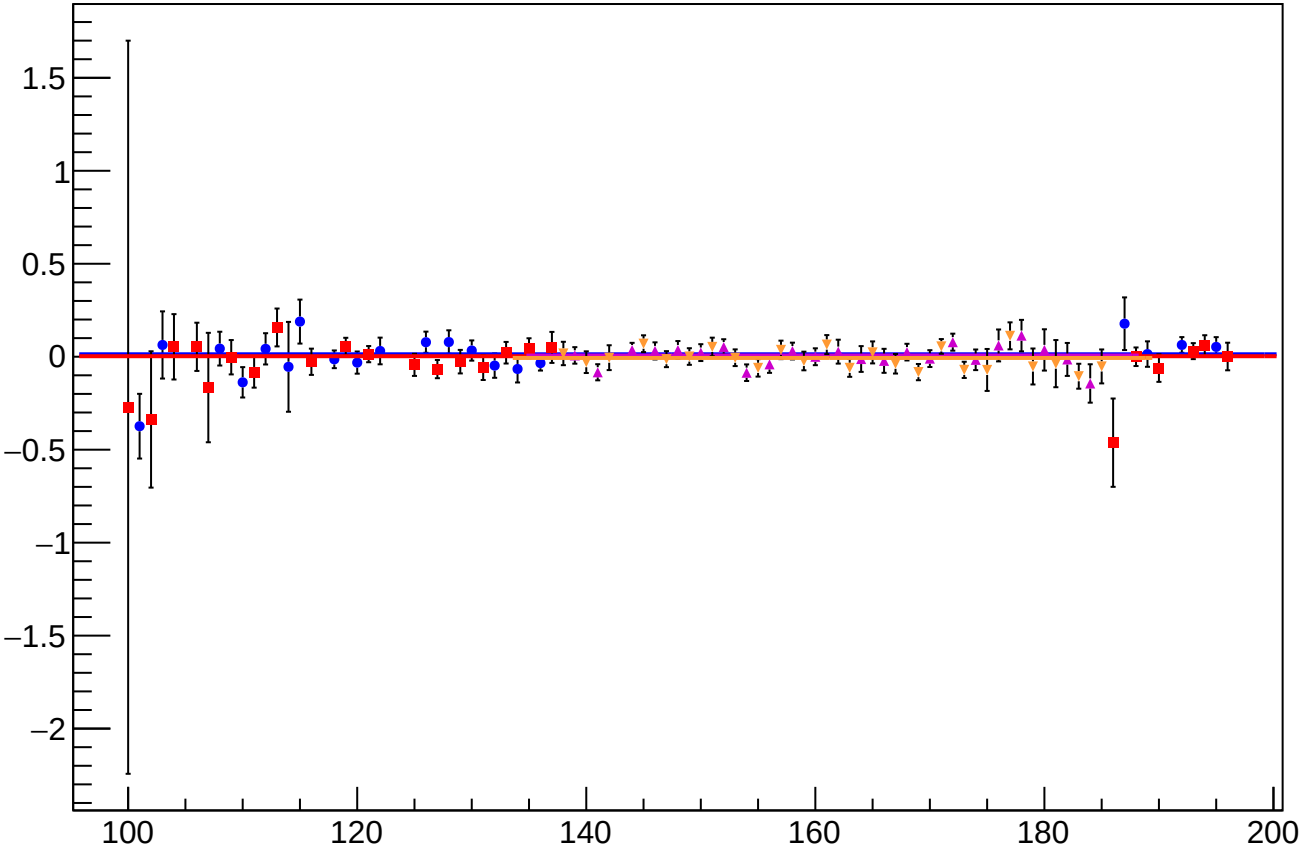
Right: 40.033+/-0.007 $\chi^2$/NDF: 4064275.3/43

In: 41.198+/-0.006 $\chi^2$/NDF:2870373.4/42

Out: 41.120+/-0.006 $\chi^2$/NDF:4469982.4/47

All: 41.158+/-0.004 $\chi^2$/NDF: 7340437.2/90

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.013+/-0.015 $\chi^2$/NDF: 21.2/19

Left Out: -0.007+/-0.011 $\chi^2$/NDF:23.9/23

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 16.9/23

Left In: 0.006+/-0.011 $\chi^2$/NDF:20.1/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 44.7/46

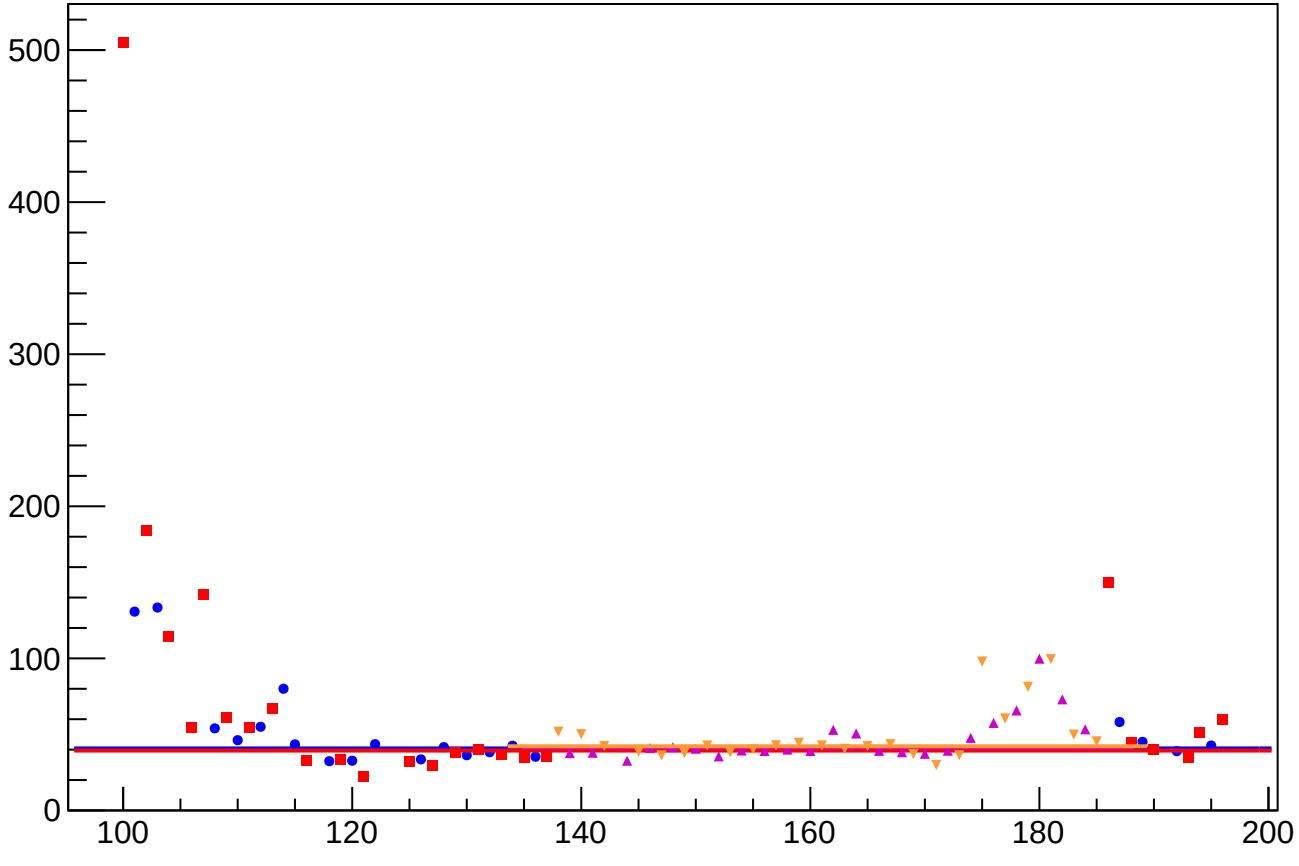
Right: 0.008+/-0.010 $\chi^2$/NDF: 38.4/43

In: 0.009+/-0.009 $\chi^2$/NDF:41.4/42

Out: -0.003+/-0.009 $\chi^2$/NDF:41.1/47

All: 0.003+/-0.006 $\chi^2$/NDF: 83.5/90

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.778+/-0.010 $\chi^2$/NDF: 1455710.2/19

Left Out: 42.208+/-0.008 $\chi^2$/NDF:1819371.1/23

Right Out: 39.376+/-0.010 $\chi^2$/NDF: 2598913.3/23

Left In: 41.421+/-0.008 $\chi^2$/NDF:1412177.5/22

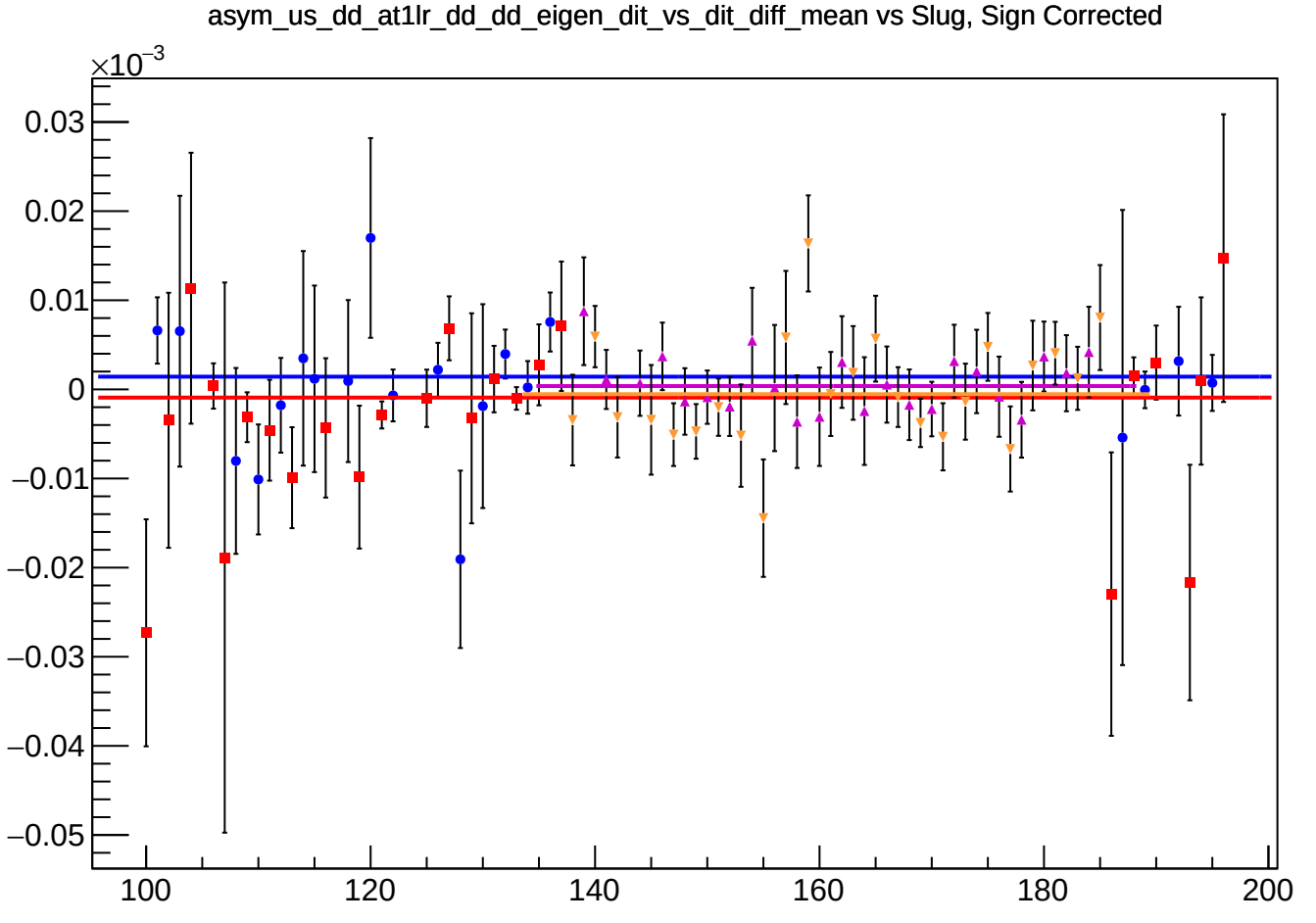
Left: 41.808+/-0.005 $\chi^2$/NDF: 3236828.7/46

Right: 40.033+/-0.007 $\chi^2$/NDF: 4064275.3/43

In: 41.198+/-0.006 $\chi^2$/NDF:2870373.4/42

Out: 41.120+/-0.006 $\chi^2$/NDF:4469982.4/47

All: 41.158+/-0.004 $\chi^2$/NDF: 7340437.2/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.8/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.7/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:9.7/22

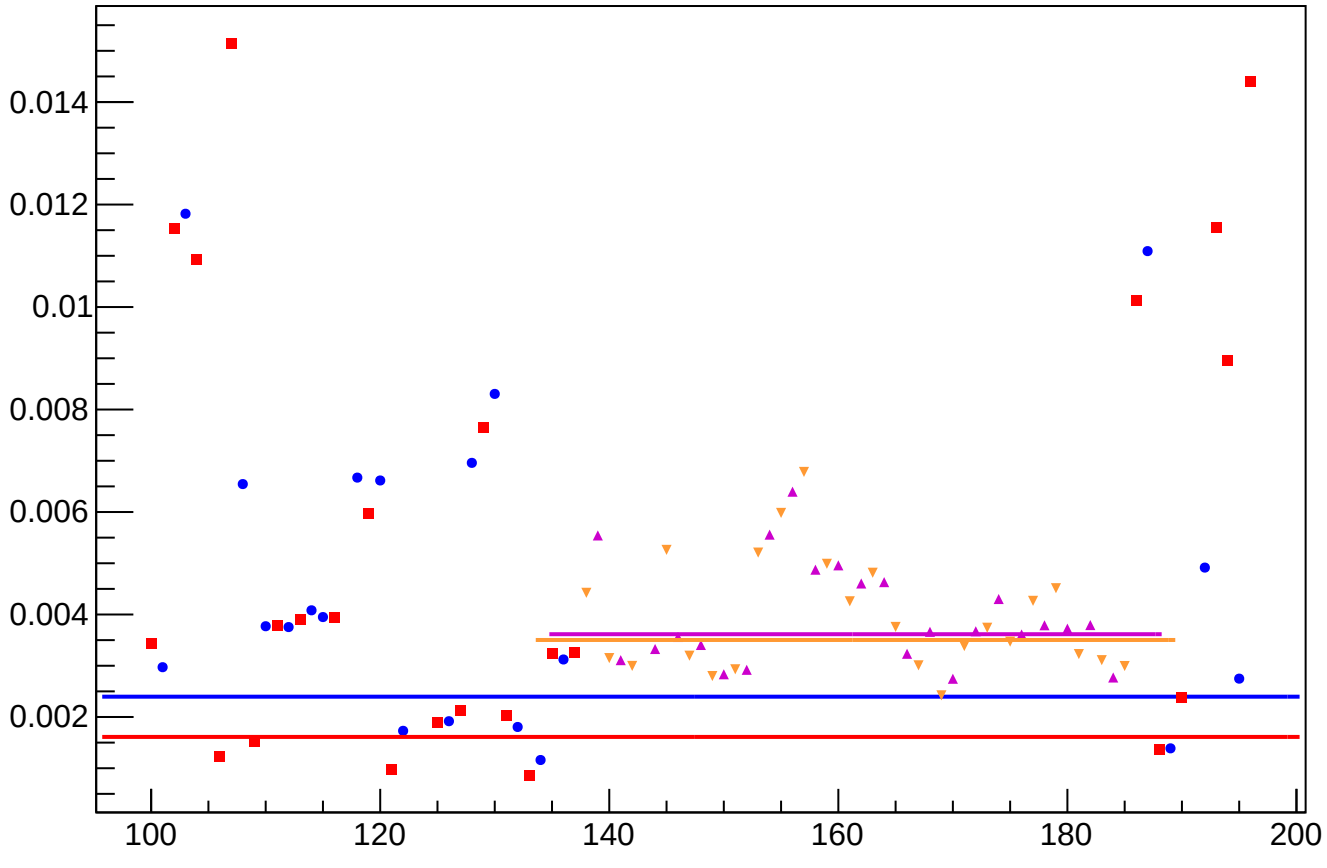
Left: -0.000+/-0.000 $\chi^2$/NDF: 47.1/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 49.5/43

In: 0.000+/-0.000 $\chi^2$/NDF:29.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:63.7/47

All: -0.000+/-0.000 $\chi^2$/NDF: 96.6/90




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4899762.8/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2190693.7/23

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9902134.9/23

Left In: 0.004+/-0.000 $\chi^2$/NDF:1668896.2/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 3876828.2/46

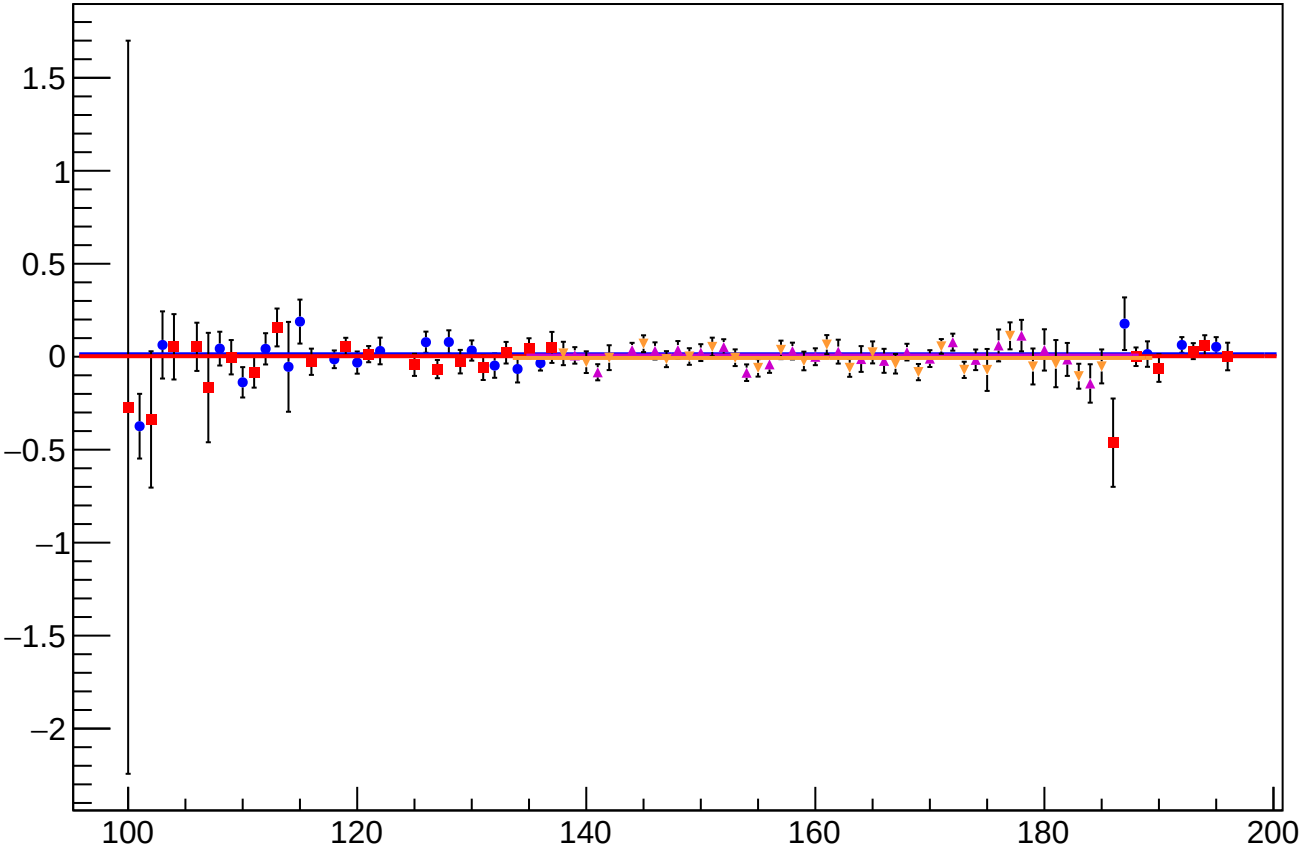
Right: 0.002+/-0.000 $\chi^2$/NDF: 15706730.4/43

In: 0.003+/-0.000 $\chi^2$/NDF:8378583.7/42

Out: 0.002+/-0.000 $\chi^2$/NDF:18093597.3/47

All: 0.003+/-0.000 $\chi^2$/NDF: 27793209.0/90

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.013+/-0.015 $\chi^2$/NDF: 21.2/19

Left Out: -0.007+/-0.011 $\chi^2$/NDF:23.9/23

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 16.9/23

Left In: 0.006+/-0.011 $\chi^2$/NDF:20.1/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 44.7/46

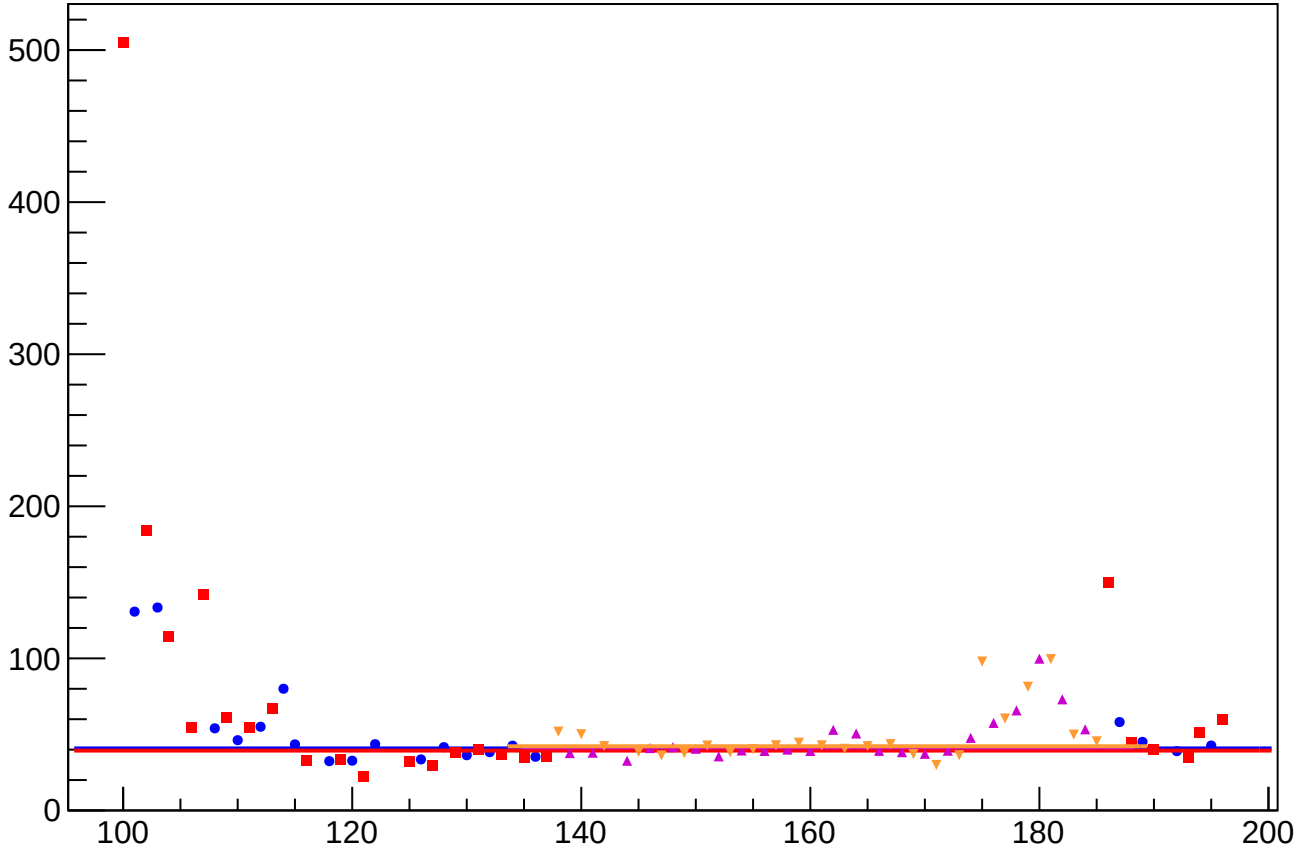
Right: 0.008+/-0.010 $\chi^2$/NDF: 38.4/43

In: 0.009+/-0.009 $\chi^2$/NDF:41.4/42

Out: -0.003+/-0.009 $\chi^2$/NDF:41.1/47

All: 0.003+/-0.006 $\chi^2$/NDF: 83.5/90

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.779+/-0.010 $\chi^2$/NDF: 1455584.0/19

Left Out: 42.208+/-0.008 $\chi^2$/NDF:1819378.3/23

Right Out: 39.374+/-0.010 $\chi^2$/NDF: 2598991.3/23

Left In: 41.421+/-0.008 $\chi^2$/NDF:1412111.4/22

Left: 41.808+/-0.005 $\chi^2$/NDF: 3236767.5/46

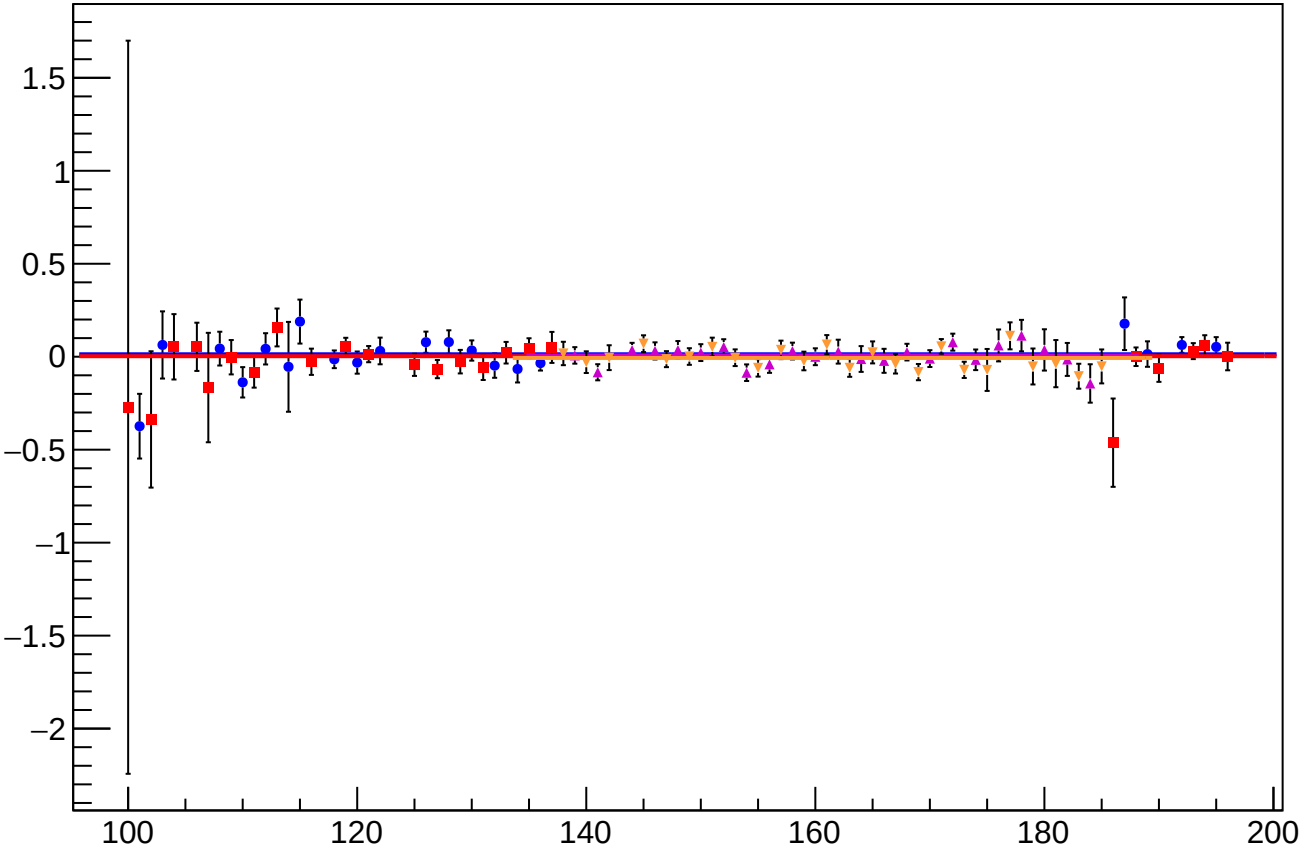
Right: 40.033+/-0.007 $\chi^2$/NDF: 4064250.1/43

In: 41.198+/-0.006 $\chi^2$/NDF:2870174.7/42

Out: 41.119+/-0.006 $\chi^2$/NDF:4470094.3/47

All: 41.158+/-0.004 $\chi^2$/NDF: 7340352.0/90

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.013+/-0.015 $\chi^2$/NDF: 21.2/19

Left Out: -0.007+/-0.011 $\chi^2$/NDF:23.9/23

Right Out: 0.003+/-0.014 $\chi^2$/NDF: 16.9/23

Left In: 0.006+/-0.011 $\chi^2$/NDF:20.1/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 44.7/46

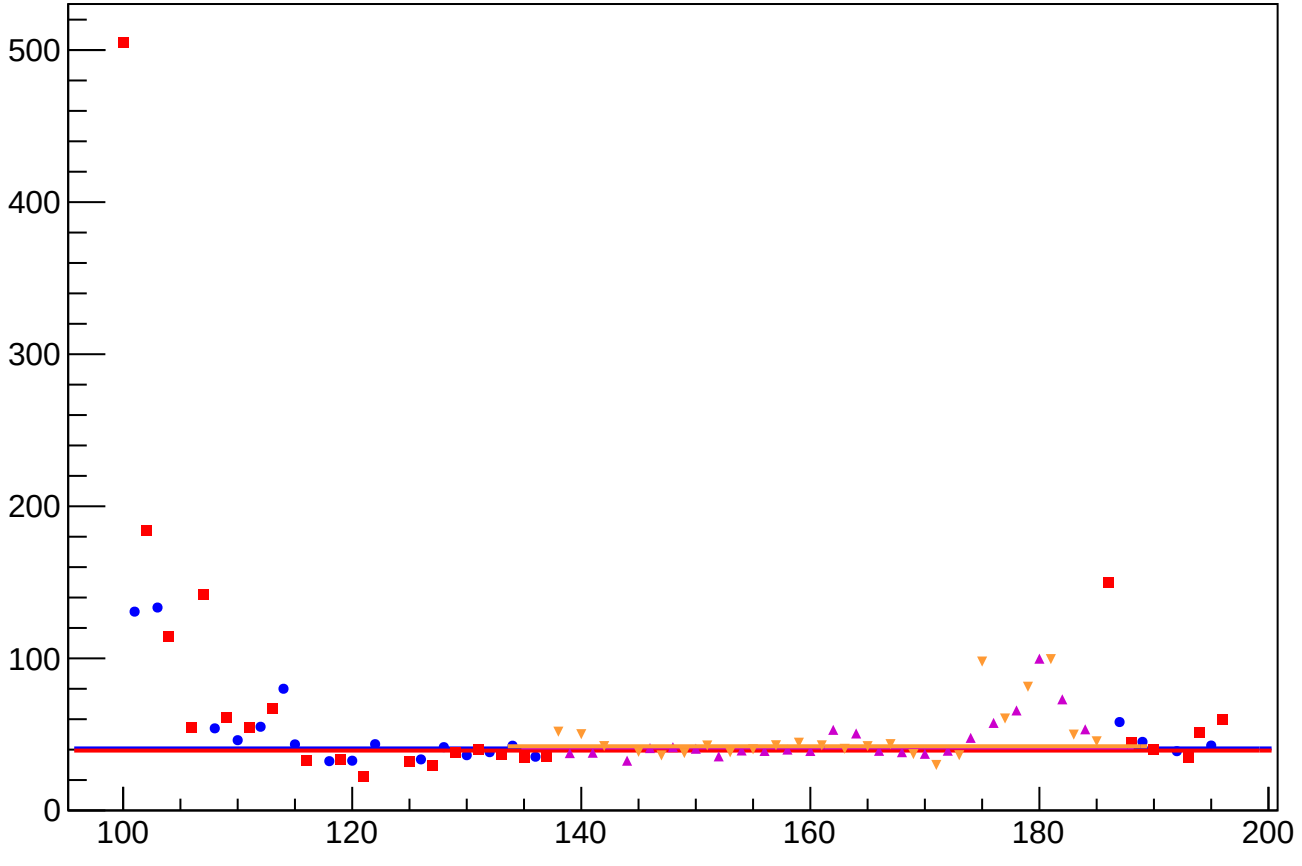
Right: 0.008+/-0.010 $\chi^2$/NDF: 38.4/43

In: 0.009+/-0.009 $\chi^2$/NDF:41.4/42

Out: -0.003+/-0.009 $\chi^2$/NDF:41.1/47

All: 0.003+/-0.006 $\chi^2$/NDF: 83.5/90

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 40.779+/-0.010 $\chi^2$/NDF: 1455584.0/19

Left Out: 42.208+/-0.008 $\chi^2$/NDF:1819378.3/23

Right Out: 39.374+/-0.010 $\chi^2$/NDF: 2598991.3/23

Left In: 41.421+/-0.008 $\chi^2$/NDF:1412111.4/22

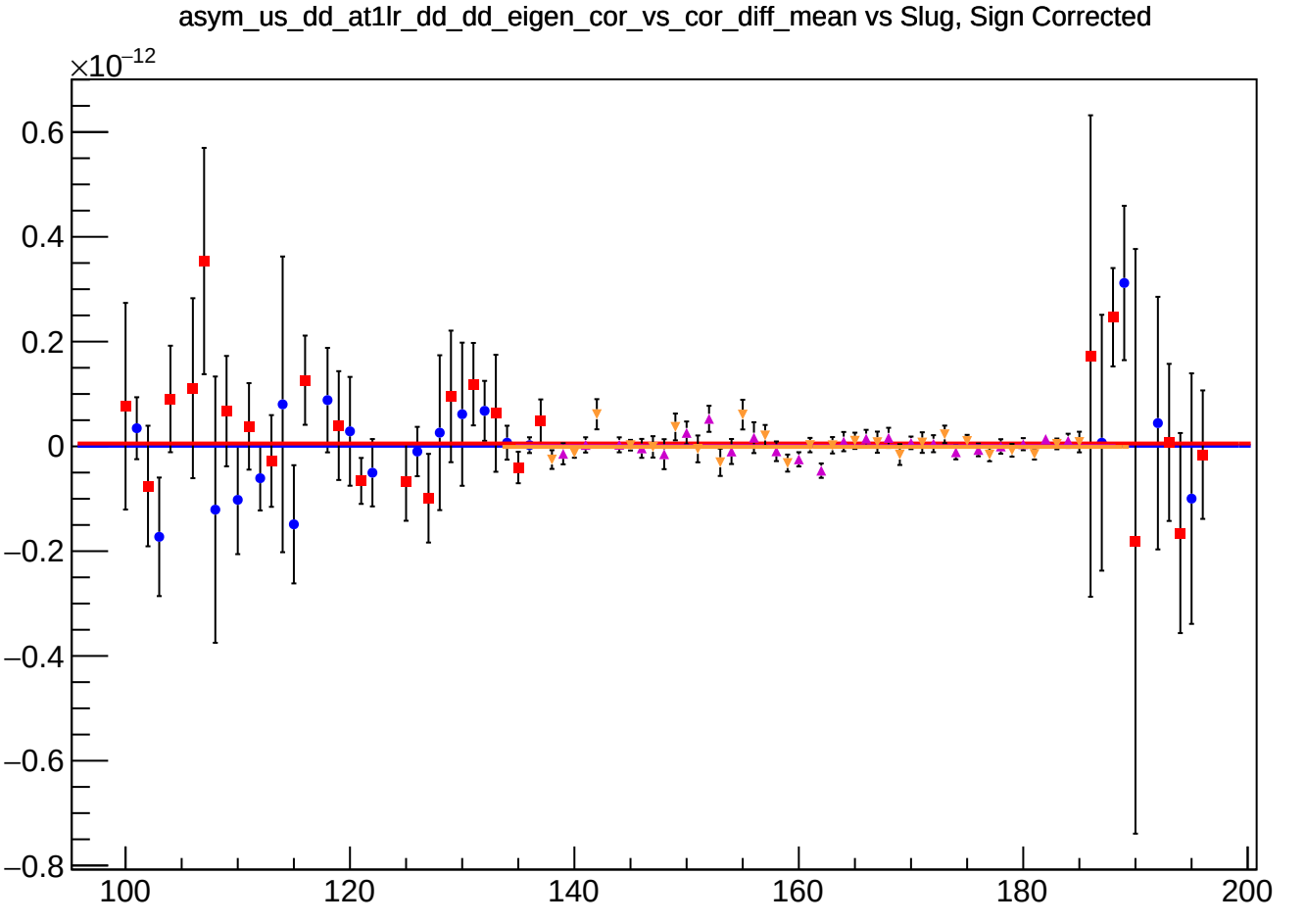
Left: 41.808+/-0.005 $\chi^2$/NDF: 3236767.5/46

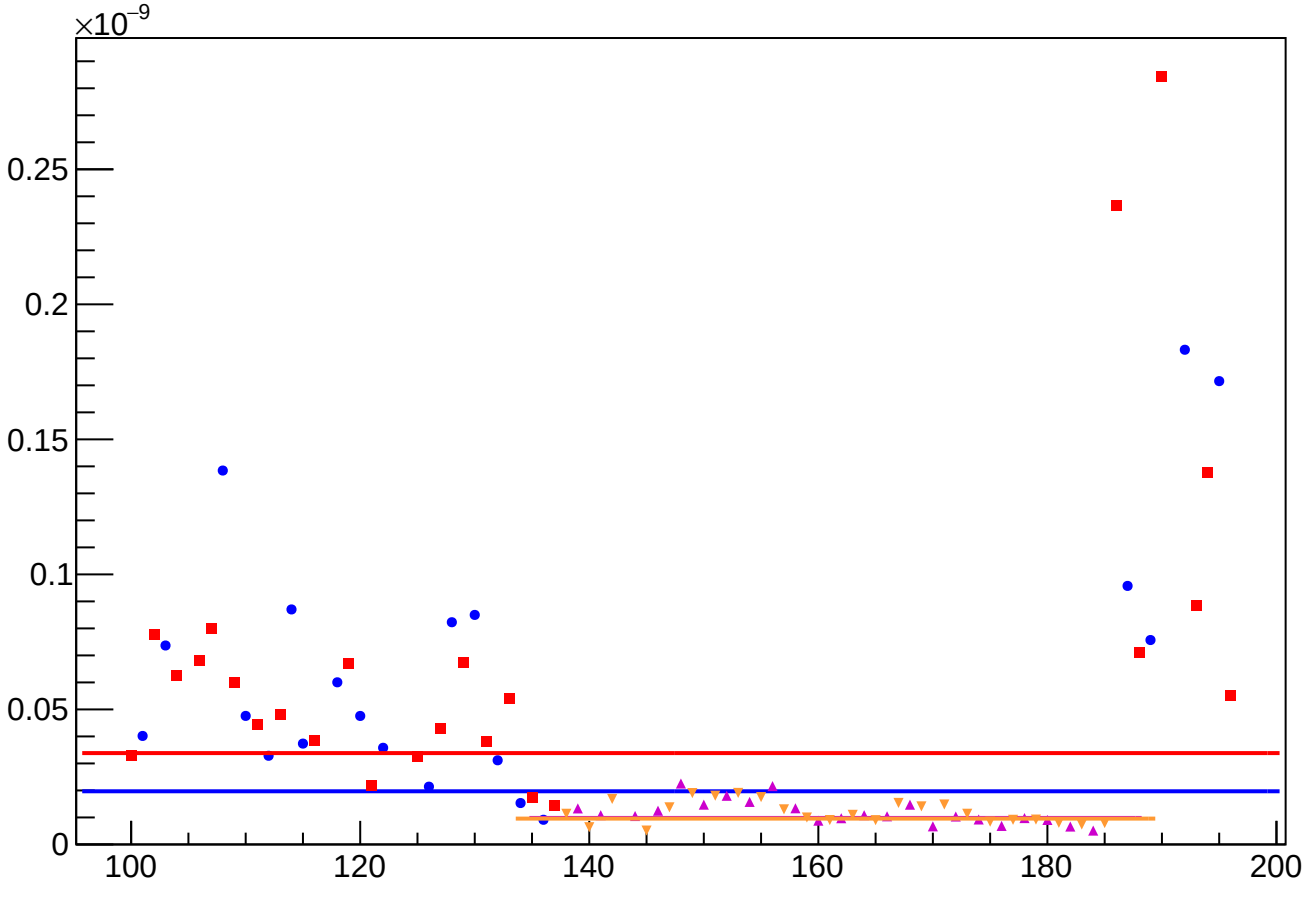
Right: 40.033+/-0.007 $\chi^2$/NDF: 4064250.1/43

In: 41.198+/-0.006 $\chi^2$/NDF:2870174.7/42

Out: 41.119+/-0.006 $\chi^2$/NDF:4470094.3/47

All: 41.158+/-0.004 $\chi^2$/NDF: 7340352.0/90


asym_us_dd_at1lr_dd_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
−0.8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 14.6/19
Left Out: -0.000+/-0.000 χ²/NDF:29.5/23
Right Out: 0.000+/-0.000 χ²/NDF: 26.1/23
Left In: 0.000+/-0.000 χ²/NDF:28.3/22
Left: -0.000+/-0.000 χ²/NDF: 57.9/46
Right: 0.000+/-0.000 χ²/NDF: 40.8/43
In: 0.000+/-0.000 χ²/NDF:42.9/42
Out: -0.000+/-0.000 χ²/NDF:55.8/47
All: -0.000+/-0.000 χ²/NDF: 98.8/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6255892.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2445128.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4498009.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2250638.6/22

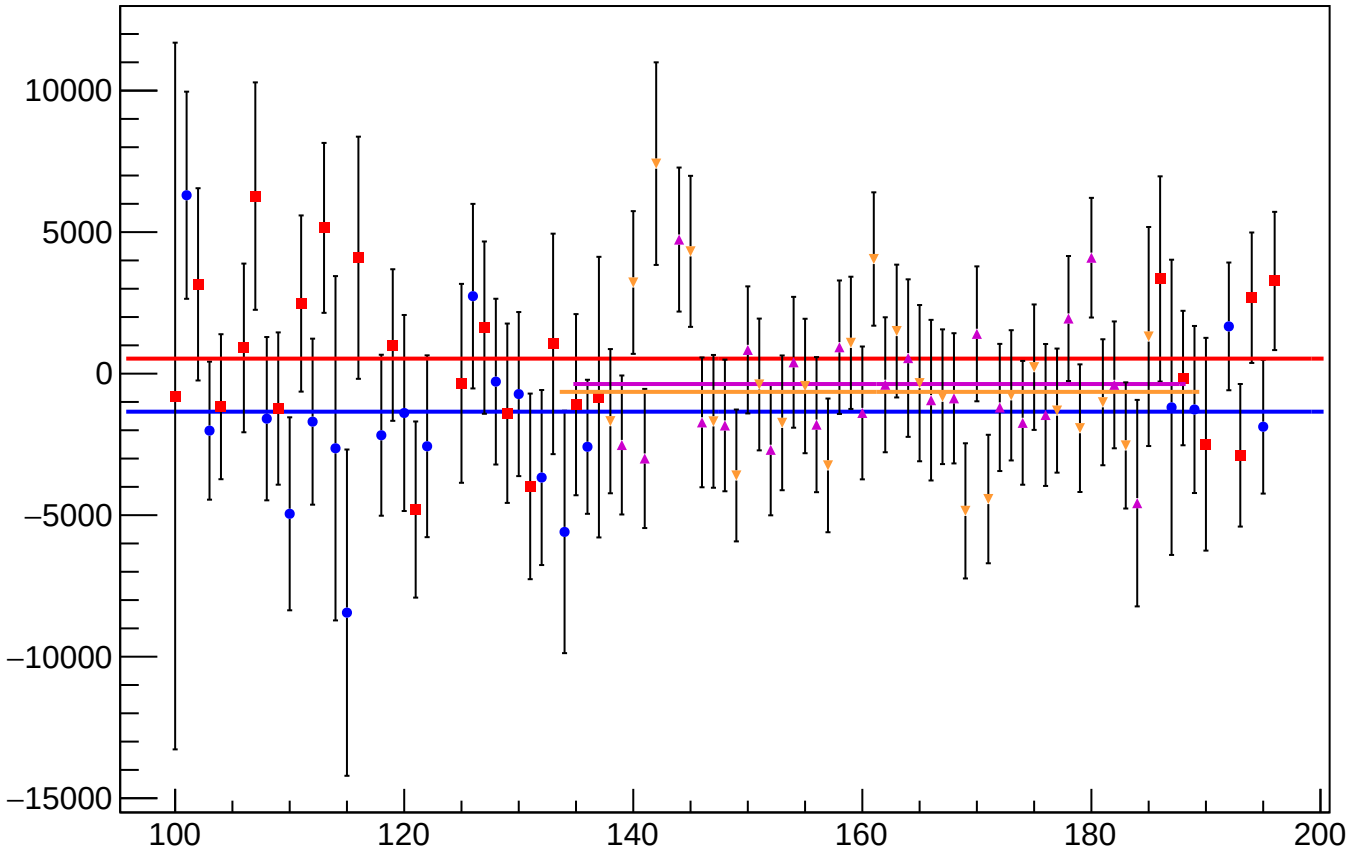
Left: 0.000+/-0.000 $\chi^2$/NDF: 4701887.7/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 11792609.2/43

In: 0.000+/-0.000 $\chi^2$/NDF:9878923.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11424014.3/47

All: 0.000+/-0.000 $\chi^2$/NDF: 21303567.8/90




Right In: -1343.626+/-686.678 $\chi^2$/NDF: 12.8/19

Left Out: -643.811+/-493.681 $\chi^2$/NDF:27.1/23

Right Out: 530.874+/-633.285 $\chi^2$/NDF: 18.1/23

Left In: -366.759+/-497.896 $\chi^2$/NDF:17.3/22

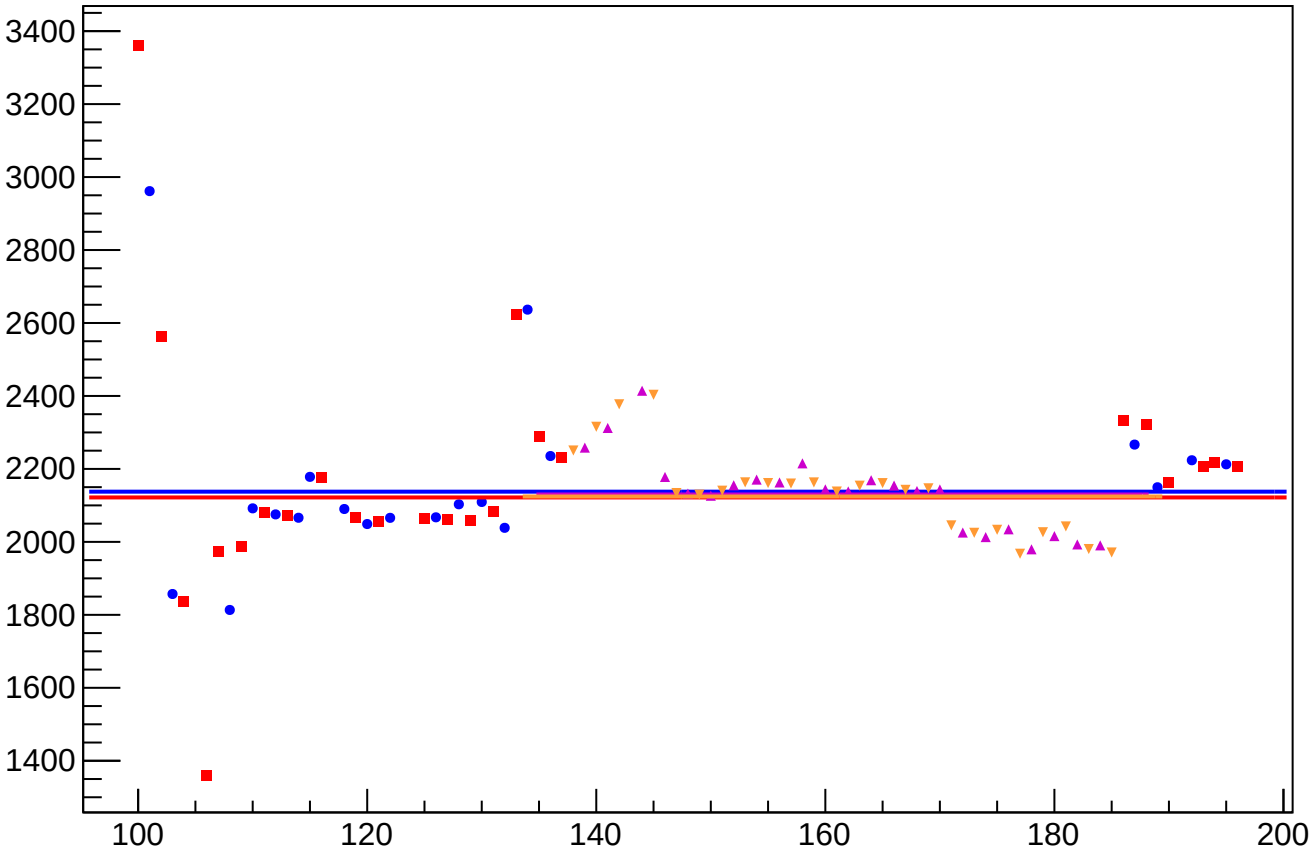
Left: -506.463+/-350.566 $\chi^2$/NDF: 44.6/46

Right: -330.675+/-465.533 $\chi^2$/NDF: 34.9/43

In: -703.368+/-403.087 $\chi^2$/NDF:31.4/42

Out: -199.784+/-389.353 $\chi^2$/NDF:47.3/47

All: -442.851+/-280.043 $\chi^2$/NDF: 79.6/90




Right In: 2137.650+/-0.486 $\chi^2$/NDF: 197778.4/19

Left Out: 2124.437+/-0.349 $\chi^2$/NDF:89184.0/23

Right Out: 2121.822+/-0.448 $\chi^2$/NDF: 290483.8/23

Left In: 2129.897+/-0.352 $\chi^2$/NDF:85354.5/22

Left: 2127.144+/-0.248 $\chi^2$/NDF: 174659.8/46

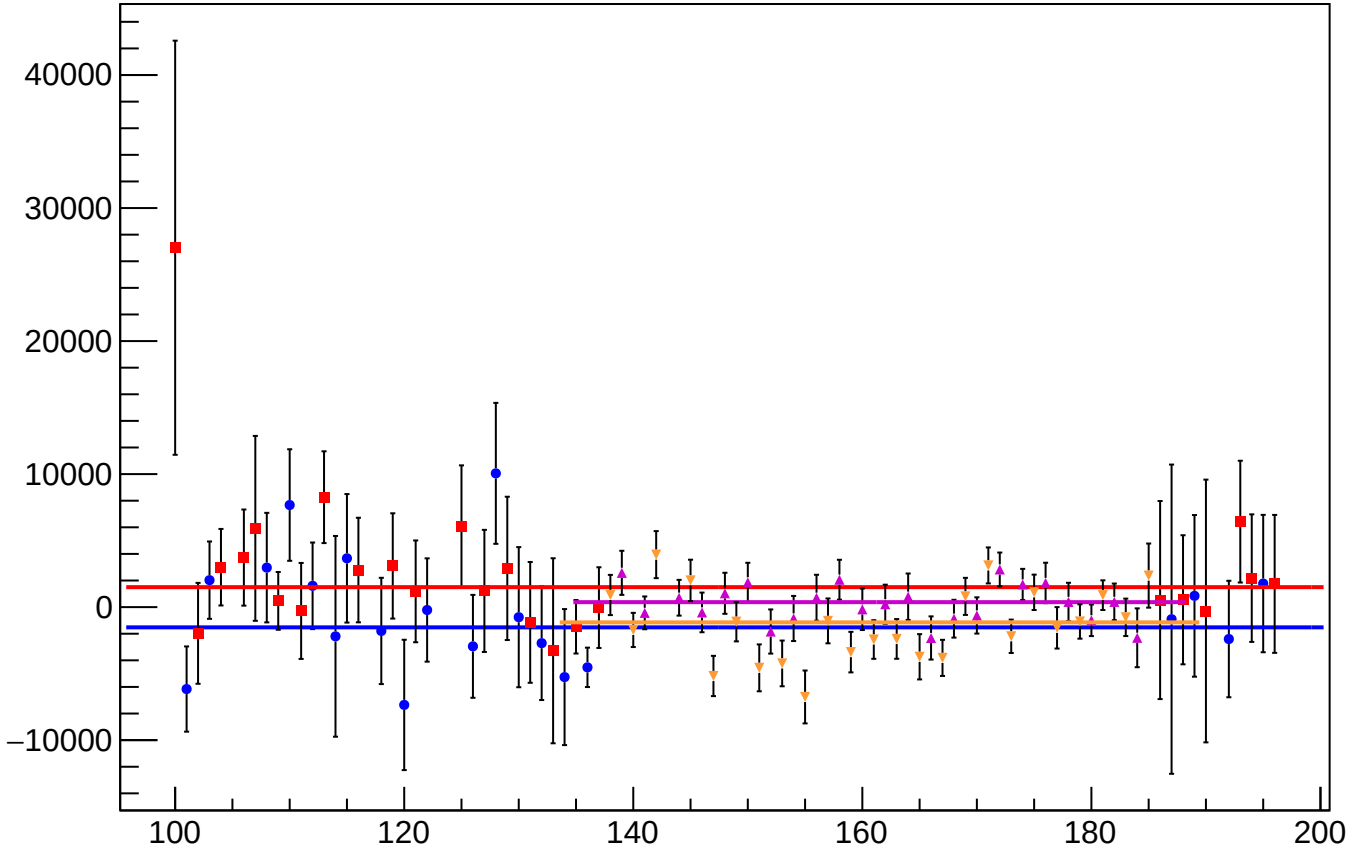
Right: 2129.097+/-0.329 $\chi^2$/NDF: 488836.5/43

In: 2132.568+/-0.285 $\chi^2$/NDF:283300.0/42

Out: 2123.448+/-0.275 $\chi^2$/NDF:379689.1/47

All: 2127.850+/-0.198 $\chi^2$/NDF: 663518.7/90

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -1521.578+/-825.154 $\chi^2$/NDF: 23.5/19

Left Out: -1144.817+/-302.488 $\chi^2$/NDF:67.5/23

Right Out: 1501.307+/-786.883 $\chi^2$/NDF: 14.8/23

Left In: 373.302+/-305.378 $\chi^2$/NDF:20.3/22

Left: -392.974+/-214.906 $\chi^2$/NDF: 100.3/46

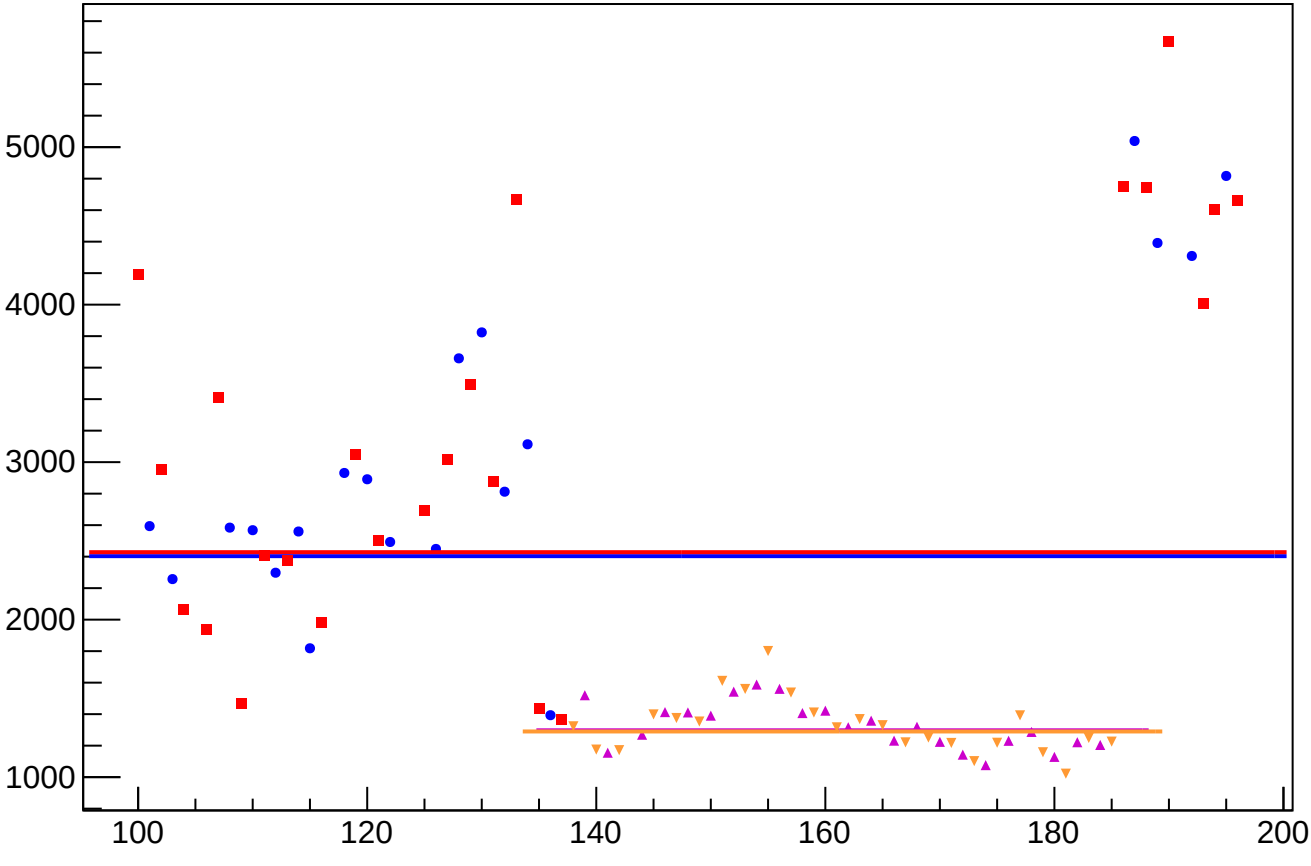
Right: 61.591+/-569.459 $\chi^2$/NDF: 45.3/43

In: 145.037+/-286.394 $\chi^2$/NDF:48.4/42

Out: -804.134+/-282.345 $\chi^2$/NDF:92.1/47

All: -336.306+/-201.064 $\chi^2$/NDF: 146.1/90

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 2403.135+/-0.583 $\chi^2$/NDF: 2485749.4/19

Left Out: 1290.029+/-0.214 $\chi^2$/NDF:567950.9/23

Right Out: 2428.408+/-0.556 $\chi^2$/NDF: 3600334.7/23

Left In: 1297.454+/-0.216 $\chi^2$/NDF:433995.4/22

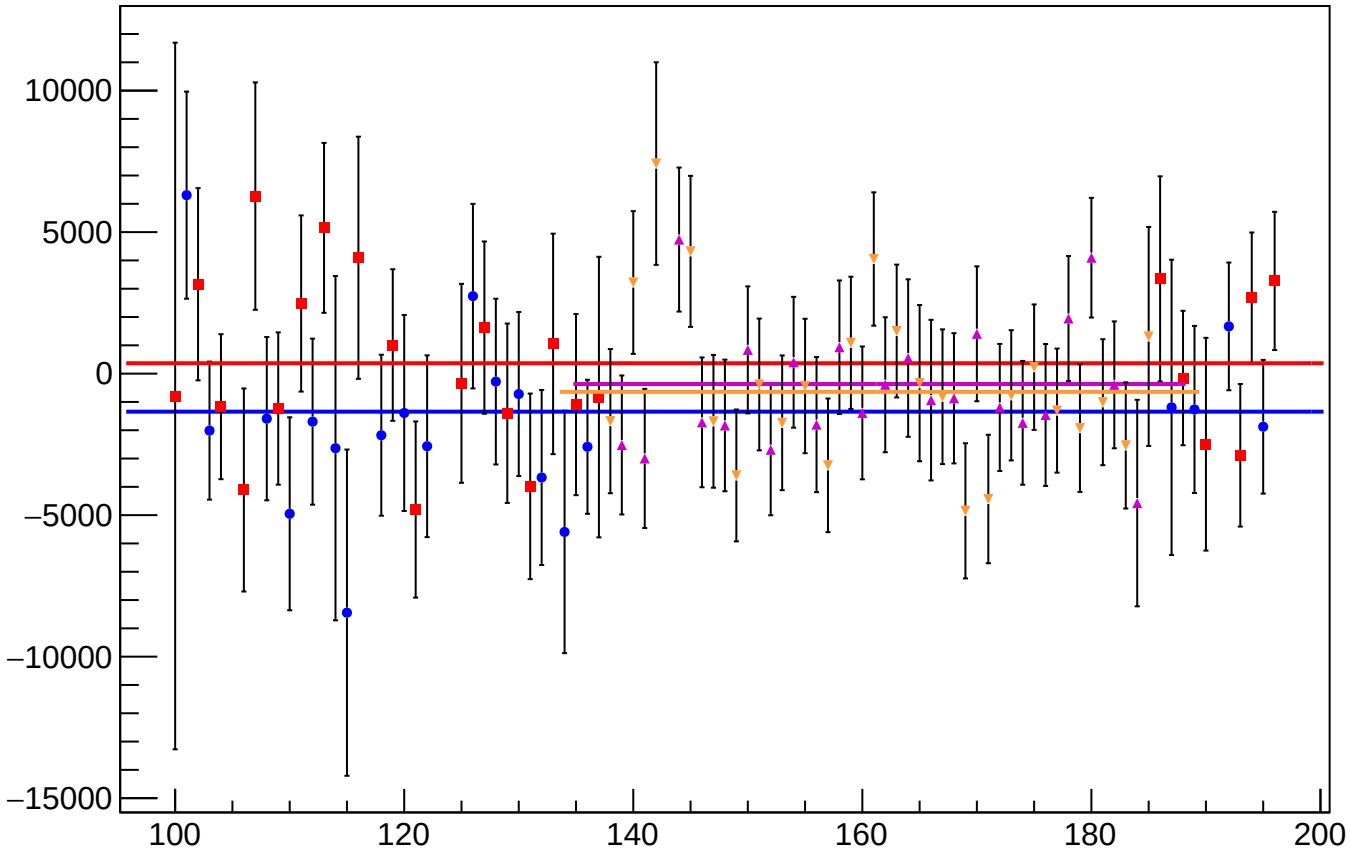
Left: 1293.707+/-0.152 $\chi^2$/NDF: 1002543.1/46

Right: 2416.371+/-0.403 $\chi^2$/NDF: 6087066.7/43

In: 1430.649+/-0.203 $\chi^2$/NDF:6078184.5/42

Out: 1436.593+/-0.200 $\chi^2$/NDF:7815216.7/47

All: 1433.664+/-0.142 $\chi^2$/NDF: 13893838.1/9




Right In: -1343.598+/-686.678 $\chi^2$/NDF: 12.8/19

Left Out: -643.673+/-493.681 $\chi^2$/NDF:27.1/23

Right Out: 367.152+/-637.764 $\chi^2$/NDF: 19.7/23

Left In: -366.649+/-497.896 $\chi^2$/NDF:17.3/22

Left: -506.339+/-350.566 $\chi^2$/NDF: 44.6/46

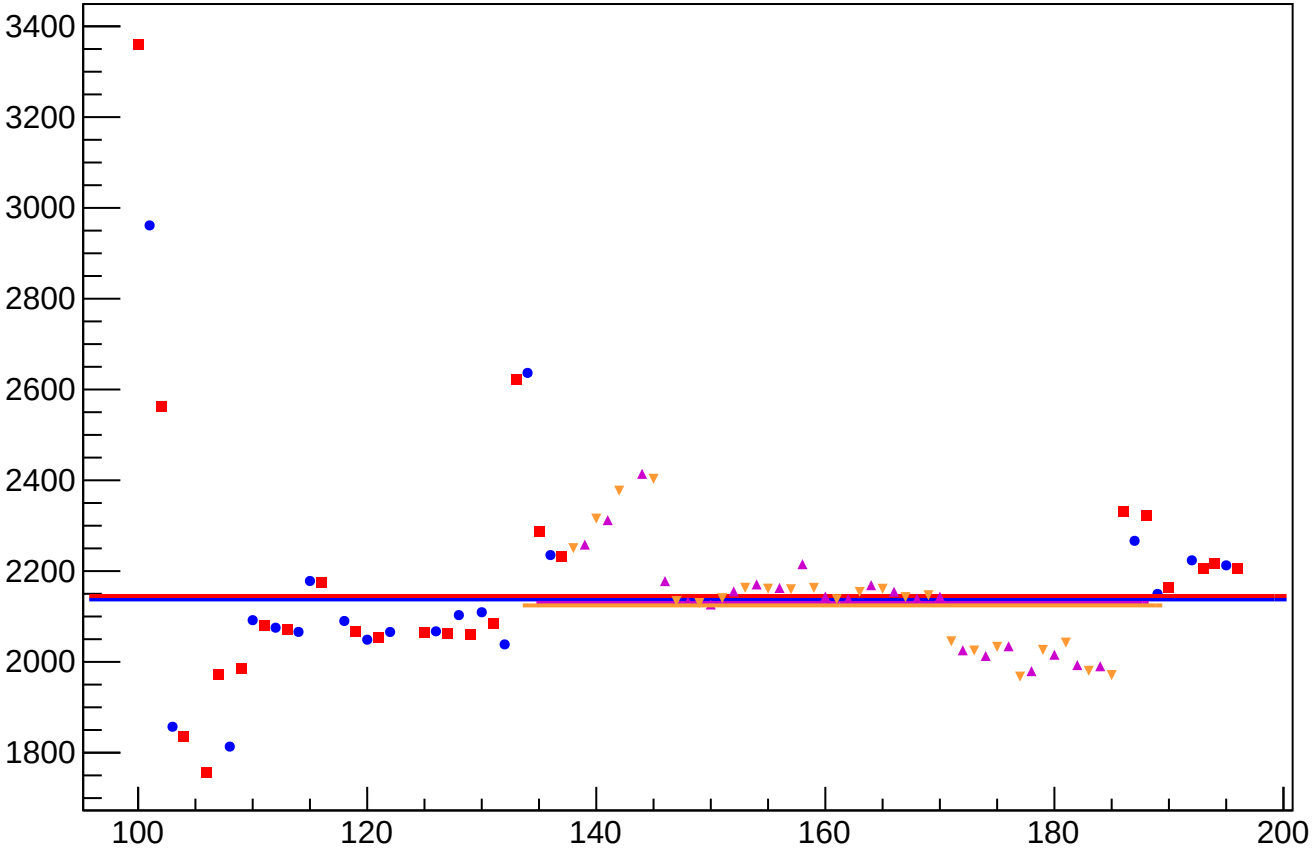
Right: -425.128+/-467.304 $\chi^2$/NDF: 35.8/43

In: -703.286+/-403.087 $\chi^2$/NDF:31.4/42

Out: -264.929+/-390.387 $\chi^2$/NDF:48.4/47

All: -477.093+/-280.427 $\chi^2$/NDF: 80.4/90

cor_asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected




Right In: 2137.650+/-0.486 $\chi^2$/NDF: 197778.8/19

Left Out: 2124.437+/-0.349 $\chi^2$/NDF:89184.0/23

Right Out: 2145.116+/-0.451 $\chi^2$/NDF: 178193.5/23

Left In: 2129.897+/-0.352 $\chi^2$/NDF:85354.4/22

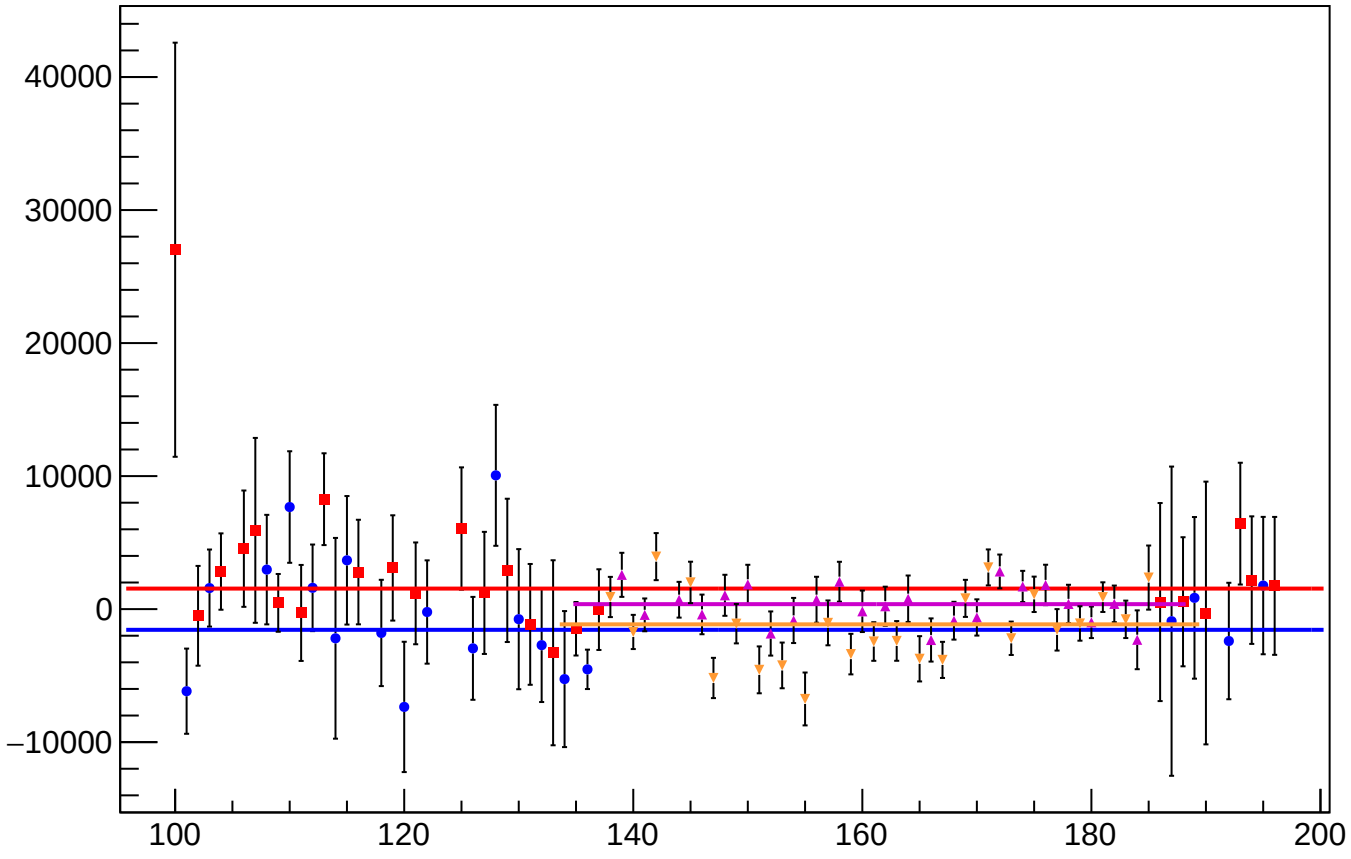
Left: 2127.144+/-0.248 $\chi^2$/NDF: 174659.7/46

Right: 2141.658+/-0.330 $\chi^2$/NDF: 376099.3/43

In: 2132.568+/-0.285 $\chi^2$/NDF:283300.3/42

Out: 2132.185+/-0.276 $\chi^2$/NDF:268692.4/47

All: 2132.371+/-0.198 $\chi^2$/NDF: 551993.6/90




Right In: -1556.446+/-824.899 $\chi^2$/NDF: 23.1/19

Left Out: -1144.779+/-302.490 $\chi^2$/NDF:67.5/23

Right Out: 1543.617+/-792.334 $\chi^2$/NDF: 14.2/23

Left In: 373.186+/-305.379 $\chi^2$/NDF:20.3/22

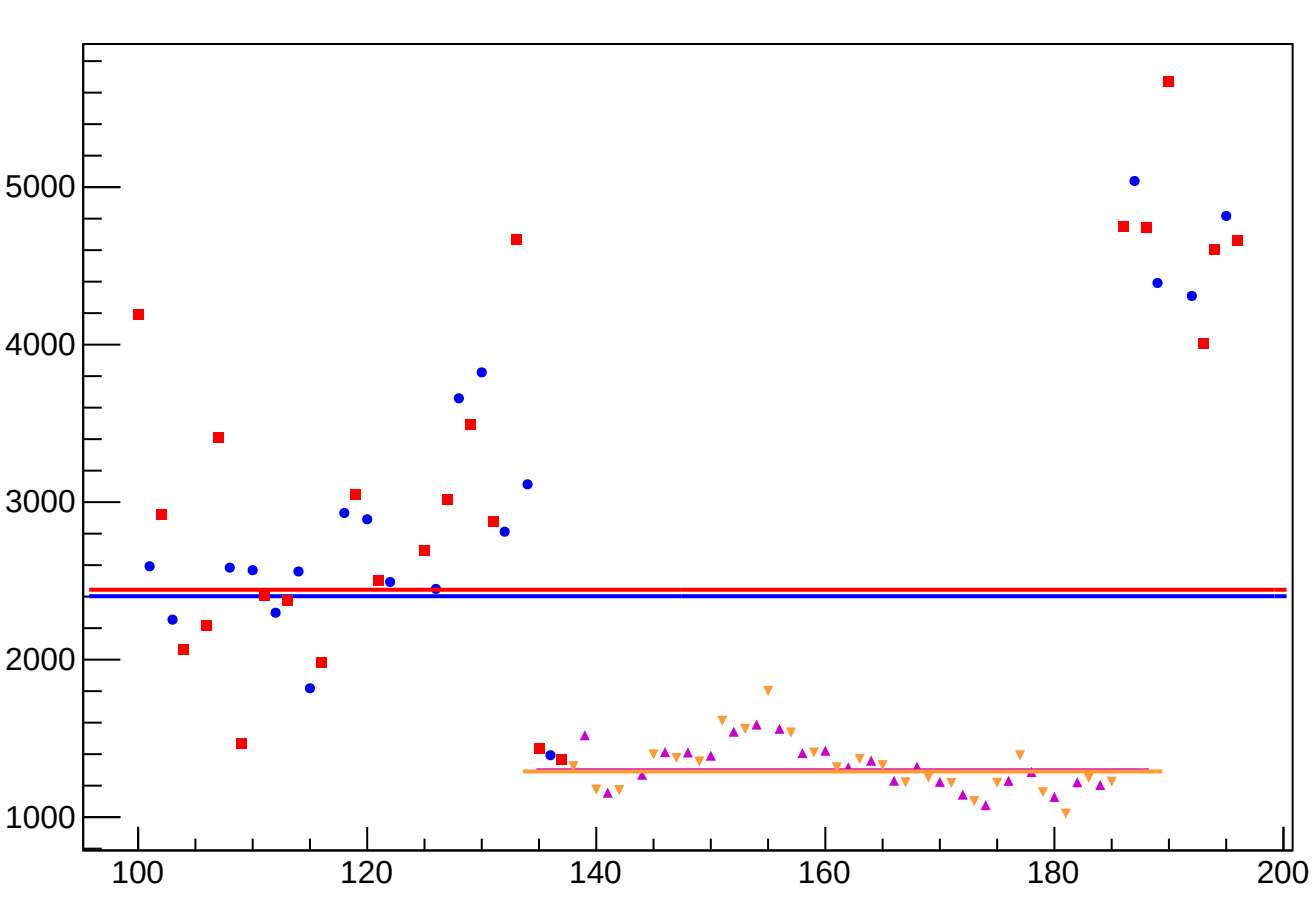
Left: -393.009+/-214.907 $\chi^2$/NDF: 100.3/46

Right: 55.985+/-571.430 $\chi^2$/NDF: 44.7/43

In: 140.607+/-286.384 $\chi^2$/NDF:48.3/42

Out: -802.792+/-282.596 $\chi^2$/NDF:91.8/47

All: -337.372+/-201.152 $\chi^2$/NDF: 145.6/90




Right In: 2402.706+/-0.583 $\chi^2$/NDF: 2485926.3/19

Left Out: 1290.041+/-0.214 $\chi^2$/NDF:567883.5/23

Right Out: 2443.826+/-0.560 $\chi^2$/NDF: 3564781.0/23

Left In: 1297.458+/-0.216 $\chi^2$/NDF:434006.2/22

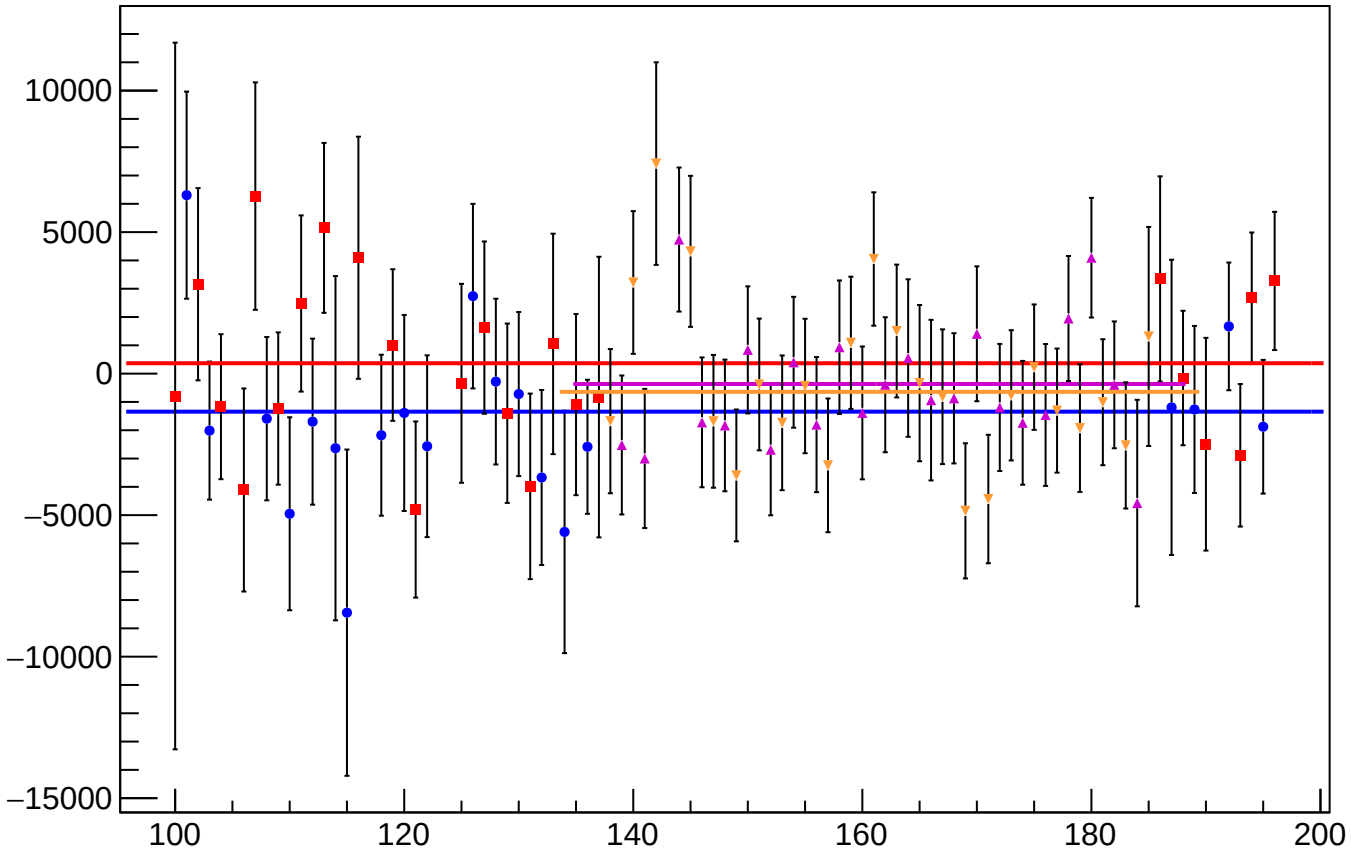
Left: 1293.714+/-0.152 $\chi^2$/NDF: 1002485.3/46

Right: 2424.094+/-0.404 $\chi^2$/NDF: 6053292.1/43

In: 1430.674+/-0.203 $\chi^2$/NDF:6077620.0/42

Out: 1436.812+/-0.200 $\chi^2$/NDF:7834135.3/47

All: 1433.784+/-0.142 $\chi^2$/NDF: 13912220.9/9




Right In: -1343.598+/-686.678 $\chi^2$/NDF: 12.8/19

Left Out: -643.673+/-493.681 $\chi^2$/NDF:27.1/23

Right Out: 367.152+/-637.764 $\chi^2$/NDF: 19.7/23

Left In: -366.649+/-497.896 $\chi^2$/NDF:17.3/22

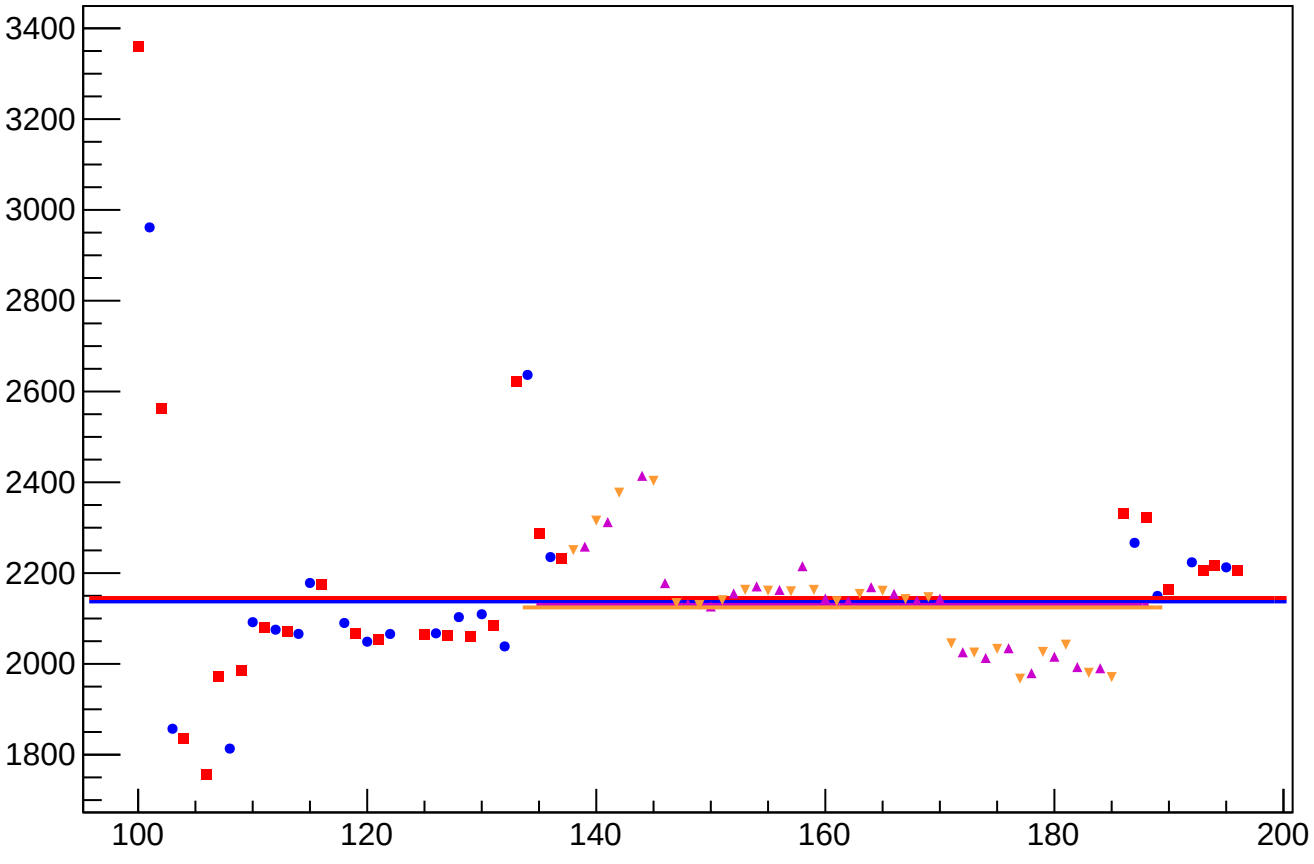
Left: -506.339+/-350.566 $\chi^2$/NDF: 44.6/46

Right: -425.128+/-467.304 $\chi^2$/NDF: 35.8/43

In: -703.286+/-403.087 $\chi^2$/NDF:31.4/42

Out: -264.929+/-390.387 $\chi^2$/NDF:48.4/47

All: -477.093+/-280.427 $\chi^2$/NDF: 80.4/90




Right In: 2137.650+/-0.486 $\chi^2$/NDF: 197778.8/19

Left Out: 2124.437+/-0.349 $\chi^2$/NDF:89184.0/23

Right Out: 2145.116+/-0.451 $\chi^2$/NDF: 178193.5/23

Left In: 2129.897+/-0.352 $\chi^2$/NDF:85354.4/22

Left: 2127.144+/-0.248 $\chi^2$/NDF: 174659.7/46

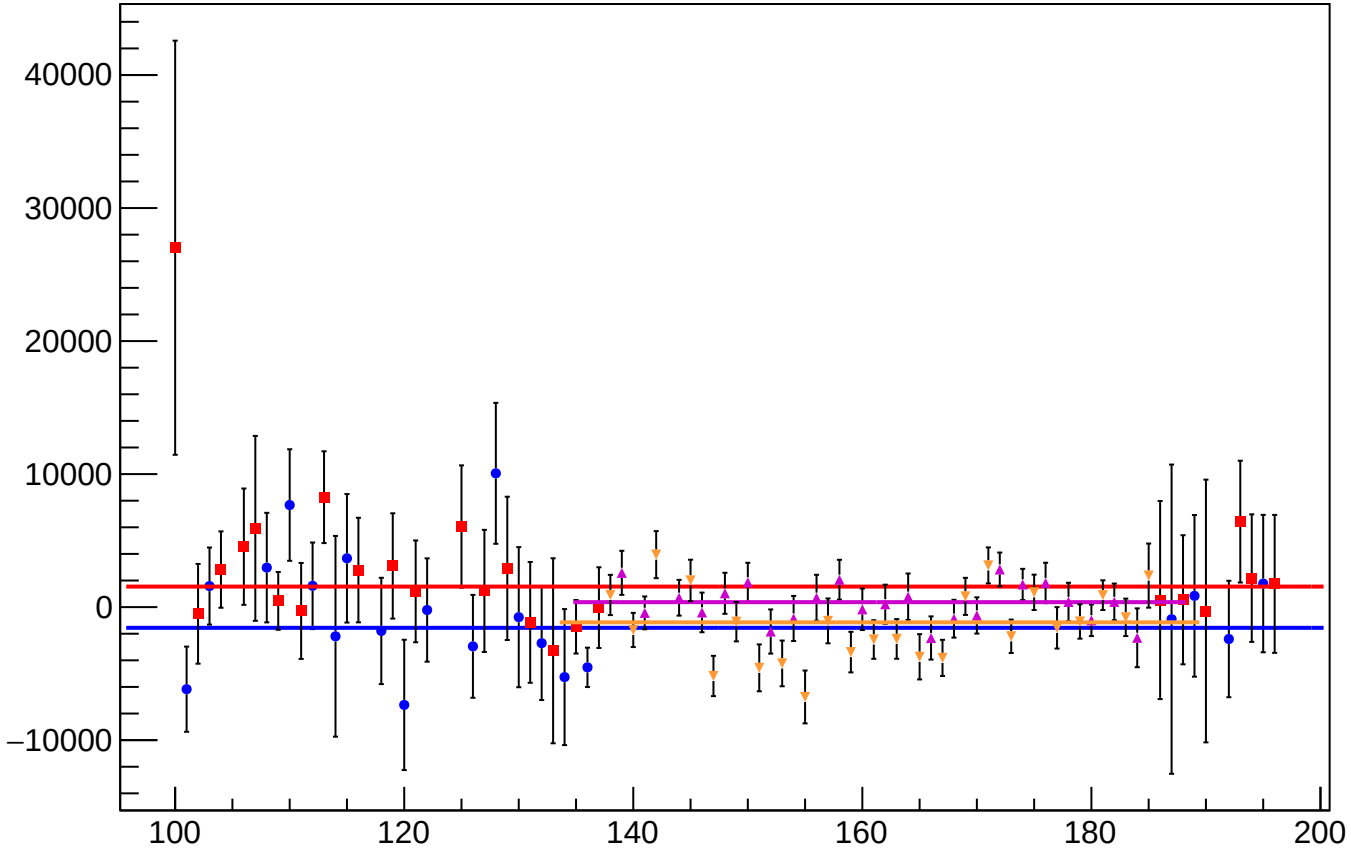
Right: 2141.658+/-0.330 $\chi^2$/NDF: 376099.3/43

In: 2132.568+/-0.285 $\chi^2$/NDF:283300.3/42

Out: 2132.185+/-0.276 $\chi^2$/NDF:268692.4/47

All: 2132.371+/-0.198 $\chi^2$/NDF: 551993.6/90

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1556.446+/-824.899 $\chi^2$/NDF: 23.1/19

Left Out: -1144.779+/-302.490 $\chi^2$/NDF:67.5/23

Right Out: 1543.617+/-792.334 $\chi^2$/NDF: 14.2/23

Left In: 373.186+/-305.379 $\chi^2$/NDF:20.3/22

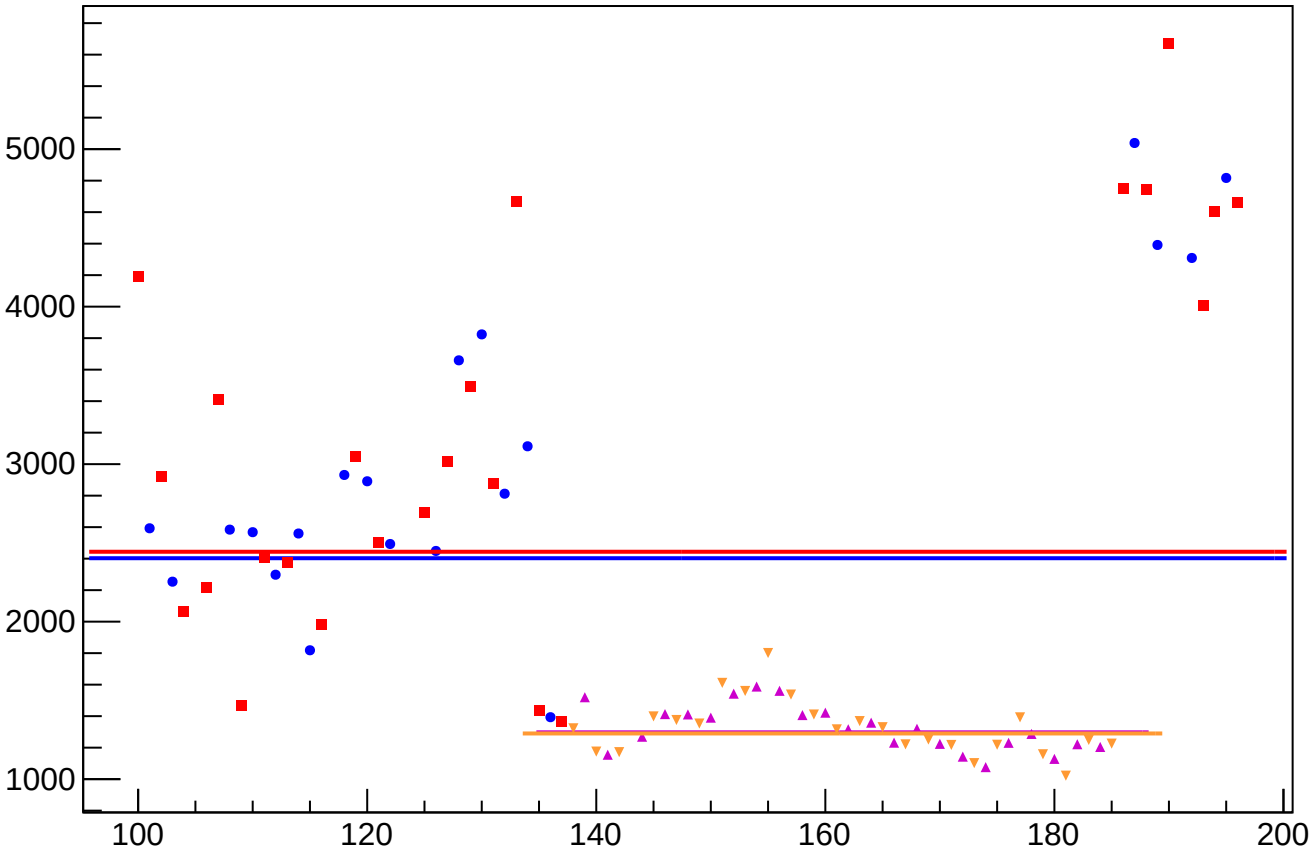
Left: -393.009+/-214.907 $\chi^2$/NDF: 100.3/46

Right: 55.985+/-571.430 $\chi^2$/NDF: 44.7/43

In: 140.607+/-286.384 $\chi^2$/NDF:48.3/42

Out: -802.792+/-282.596 $\chi^2$/NDF:91.8/47

All: -337.372+/-201.152 $\chi^2$/NDF: 145.6/90




Right In: 2402.706+/-0.583 $\chi^2$/NDF: 2485926.3/19

Left Out: 1290.041+/-0.214 $\chi^2$/NDF:567883.5/23

Right Out: 2443.826+/-0.560 $\chi^2$/NDF: 3564781.0/23

Left In: 1297.458+/-0.216 $\chi^2$/NDF:434006.2/22

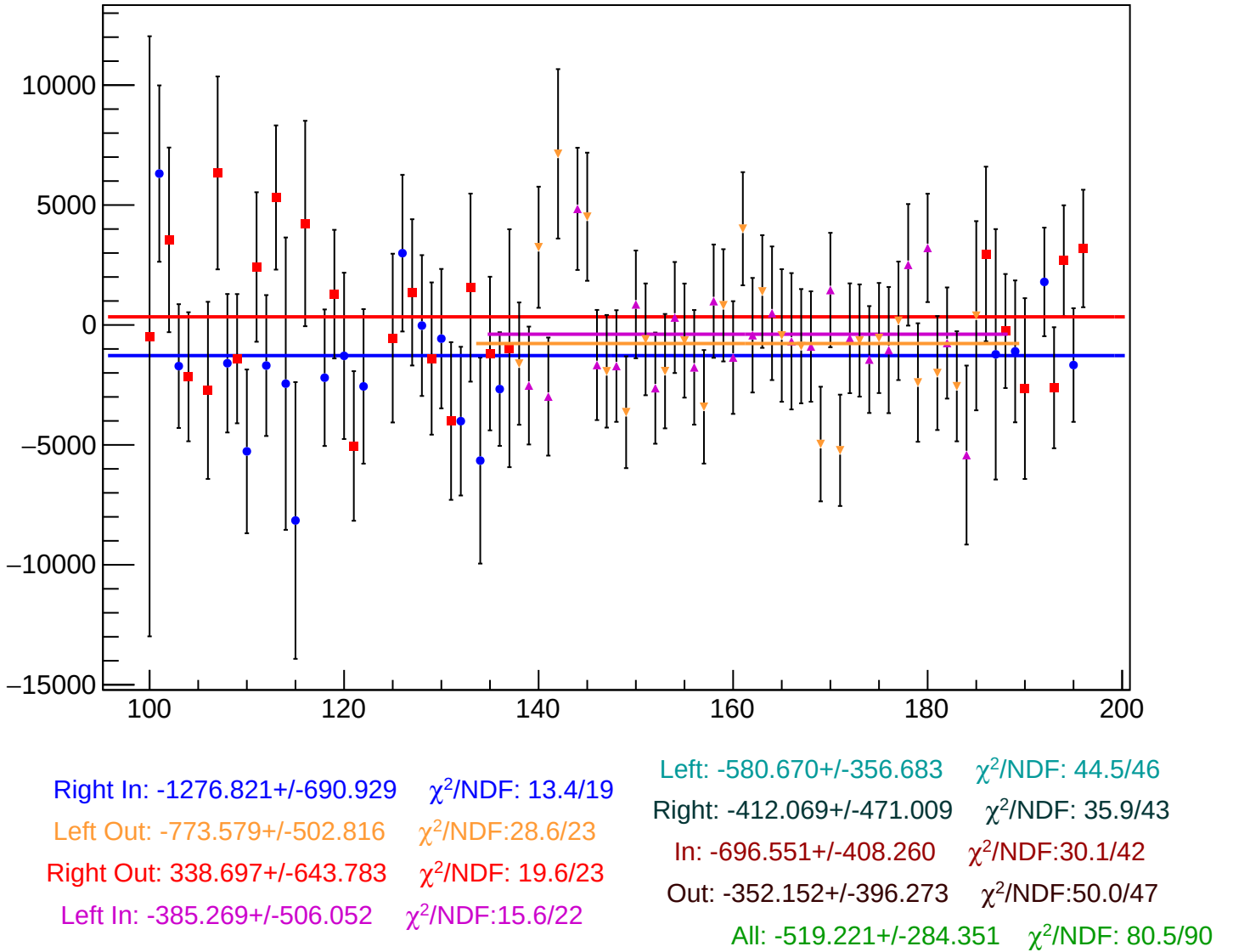
Left: 1293.714+/-0.152 $\chi^2$/NDF: 1002485.3/46

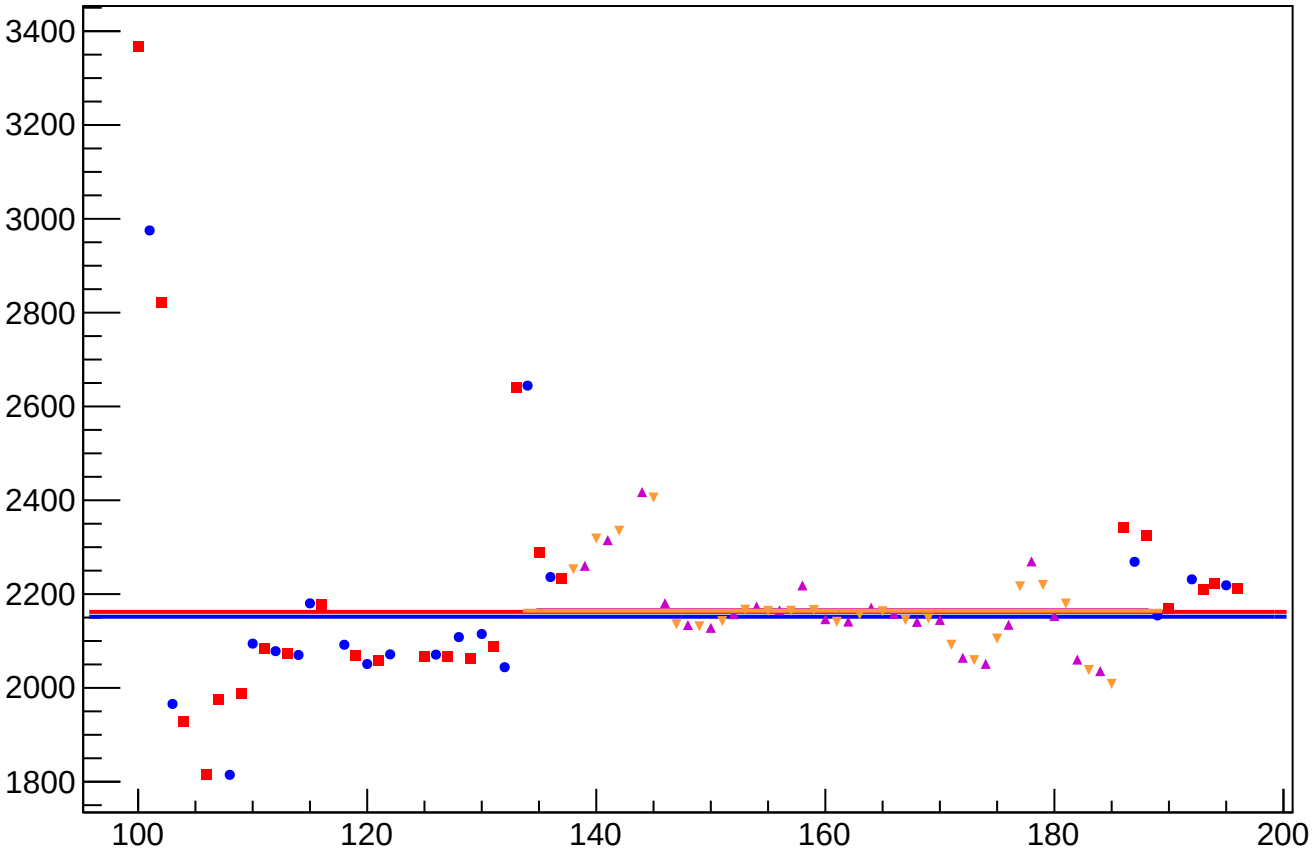
Right: 2424.094+/-0.404 $\chi^2$/NDF: 6053292.1/43

In: 1430.674+/-0.203 $\chi^2$/NDF:6077620.0/42

Out: 1436.812+/-0.200 $\chi^2$/NDF:7834135.3/47

All: 1433.784+/-0.142 $\chi^2$/NDF: 13912220.9/9


dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: -1276.821+/-690.929 χ²/NDF: 13.4/19
Left Out: -773.579+/-502.816 χ²/NDF:28.6/23
Right Out: 338.697+/-643.783 χ²/NDF: 19.6/23
Left In: -385.269+/-506.052 χ²/NDF:15.6/22
Left: -580.670+/-356.683 χ²/NDF: 44.5/46
Right: -412.069+/-471.009 χ²/NDF: 35.9/43
In: -696.551+/-408.260 χ²/NDF:30.1/42
Out: -352.152+/-396.273 χ²/NDF:50.0/47
All: -519.221+/-284.351 χ²/NDF: 80.5/90




Right In: 2151.739+/-0.489 $\chi^2$/NDF: 182343.8/19

Left Out: 2164.532+/-0.356 $\chi^2$/NDF:50676.3/23

Right Out: 2162.088+/-0.455 $\chi^2$/NDF: 186912.0/23

Left In: 2165.643+/-0.358 $\chi^2$/NDF:52124.5/22

Left: 2165.084+/-0.252 $\chi^2$/NDF: 102805.6/46

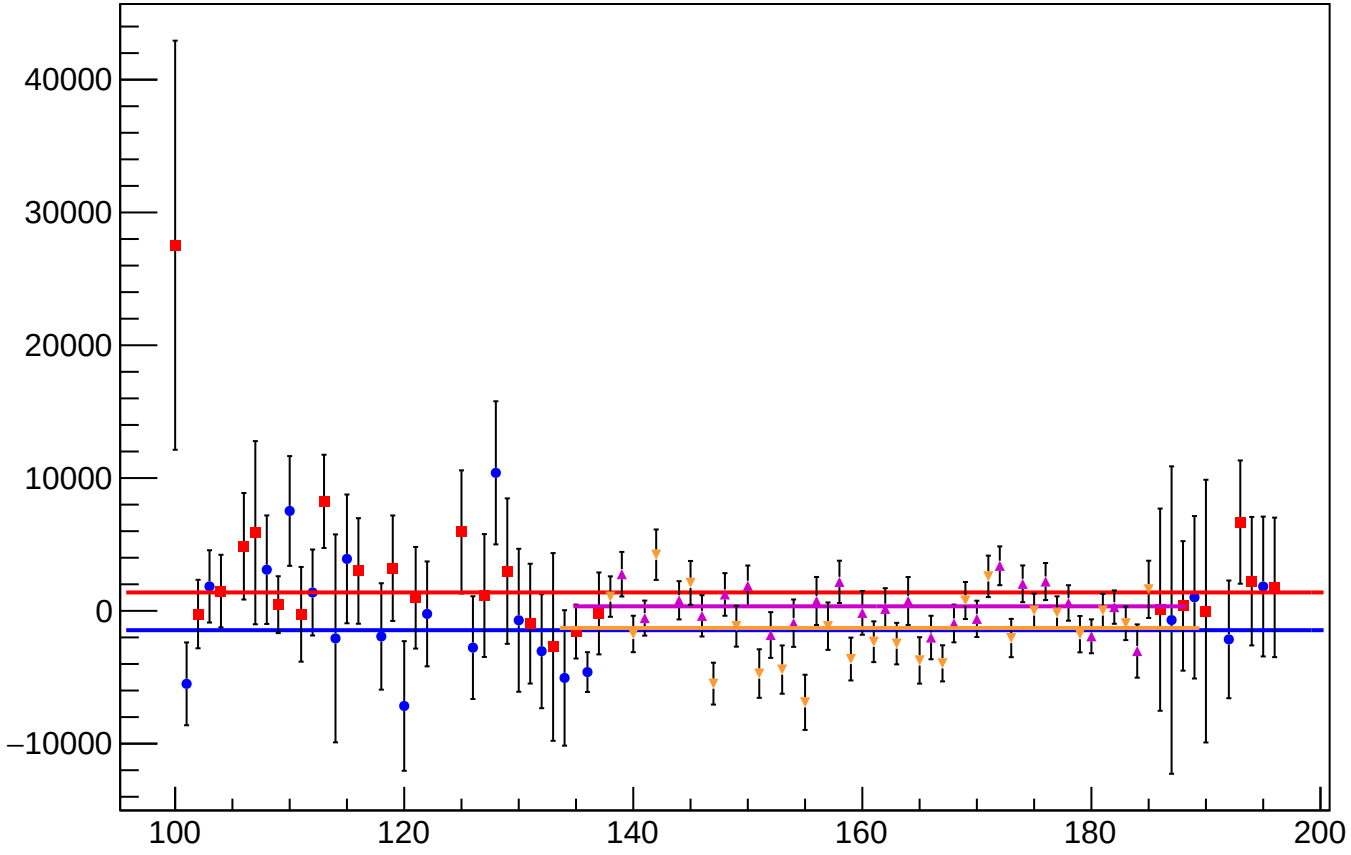
Right: 2157.279+/-0.333 $\chi^2$/NDF: 369496.0/43

In: 2160.789+/-0.289 $\chi^2$/NDF:234995.4/42

Out: 2163.606+/-0.280 $\chi^2$/NDF:237606.2/47

All: 2162.239+/-0.201 $\chi^2$/NDF: 472650.7/90

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -1456.230+/-823.652 $\chi^2$/NDF: 23.2/19

Left Out: -1293.716+/-310.622 $\chi^2$/NDF:58.7/23

Right Out: 1386.633+/-770.835 $\chi^2$/NDF: 14.5/23

Left In: 341.259+/-315.566 $\chi^2$/NDF:24.8/22

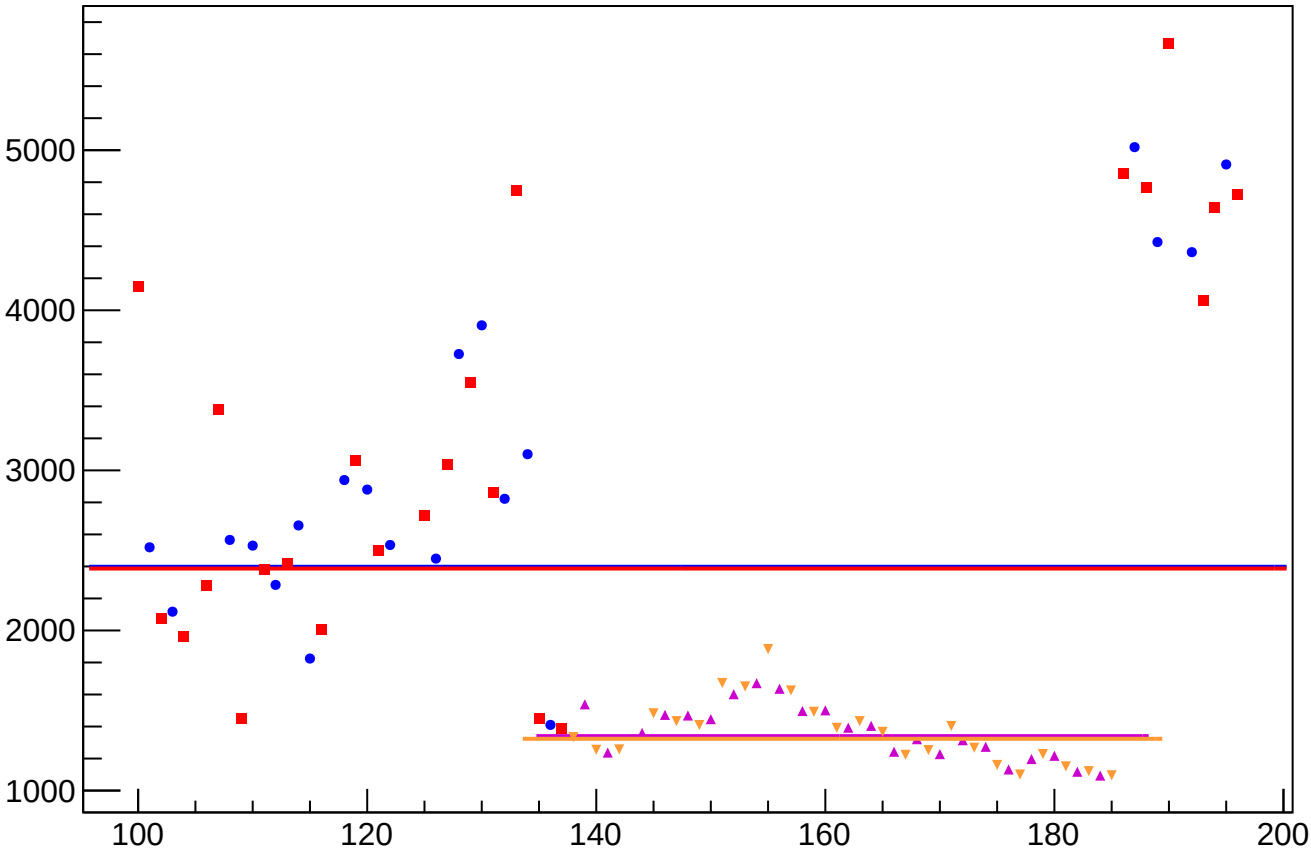
Left: -489.137+/-221.370 $\chi^2$/NDF: 97.1/46

Right: 59.266+/-562.809 $\chi^2$/NDF: 44.1/43

In: 111.181+/-294.679 $\chi^2$/NDF:52.1/42

Out: -919.275+/-288.109 $\chi^2$/NDF:83.6/47

All: -415.661+/-206.007 $\chi^2$/NDF: 142.0/90




Right In: 2397.901+/-0.582 $\chi^2$/NDF: 2497875.2/19

Left Out: 1323.402+/-0.220 $\chi^2$/NDF:663859.2/23

Right Out: 2386.866+/-0.545 $\chi^2$/NDF: 3626670.1/23

Left In: 1340.084+/-0.223 $\chi^2$/NDF:494267.4/22

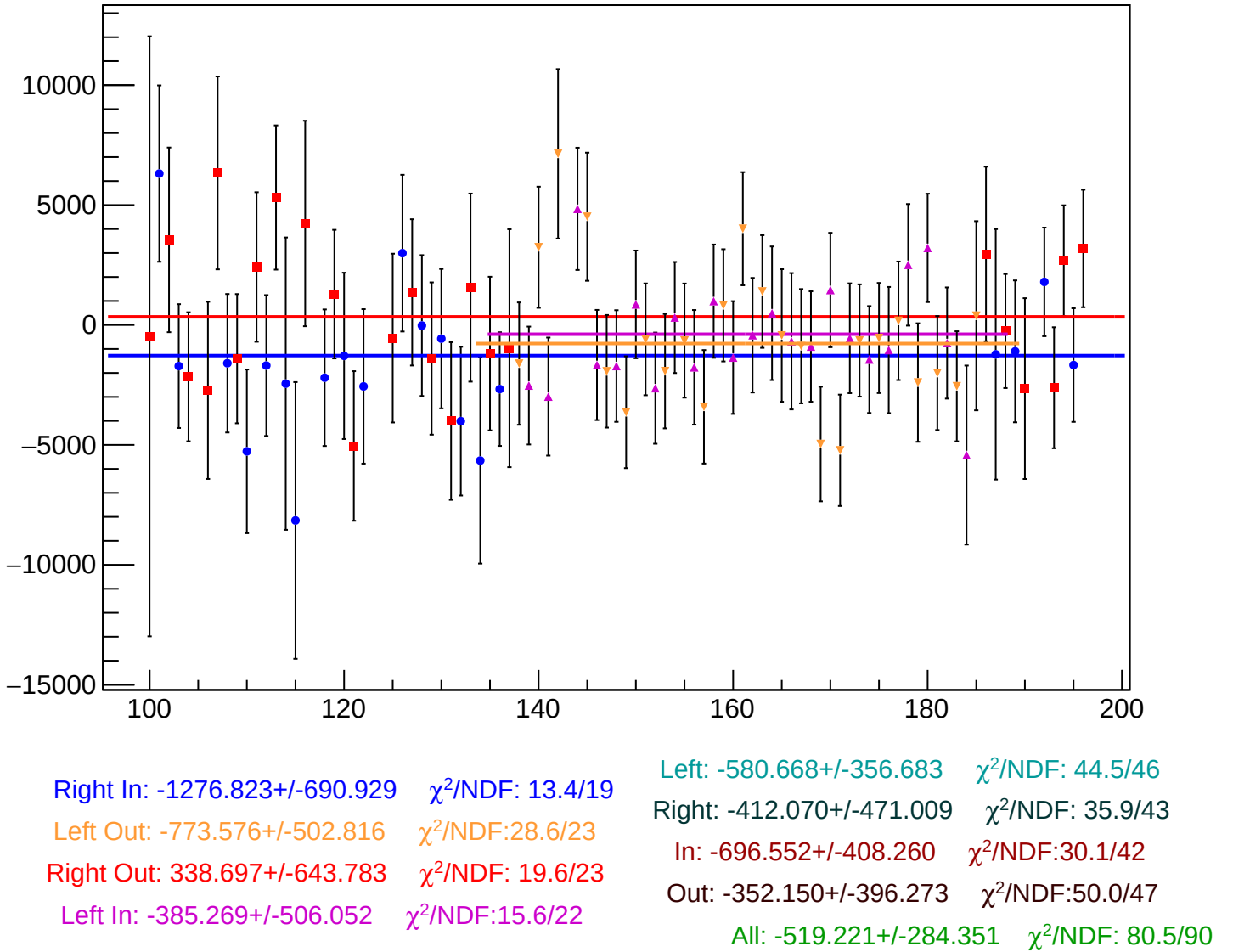
Left: 1331.612+/-0.157 $\chi^2$/NDF: 1160965.4/46

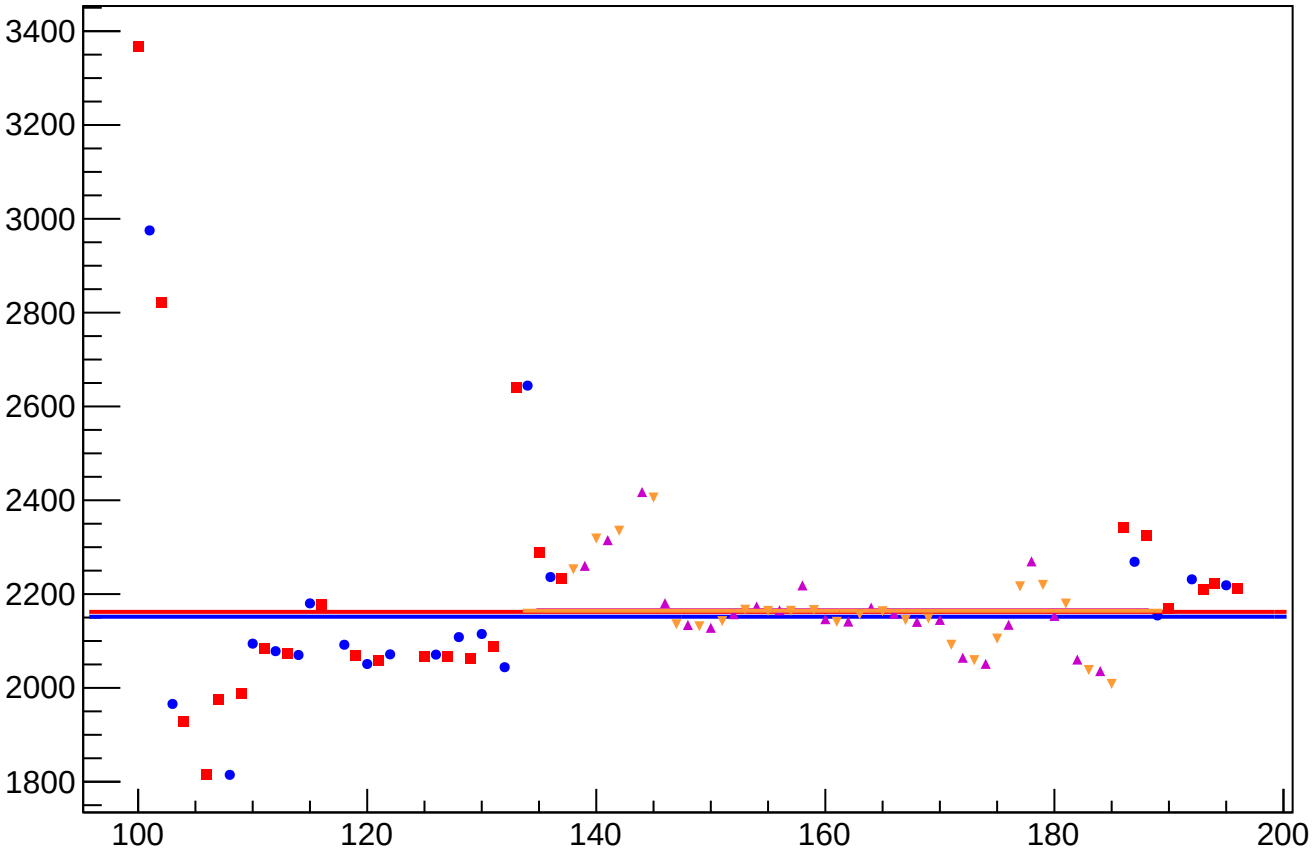
Right: 2392.019+/-0.398 $\chi^2$/NDF: 6124736.7/43

In: 1475.485+/-0.208 $\chi^2$/NDF:5868747.4/42

Out: 1471.966+/-0.204 $\chi^2$/NDF:7565464.6/47

All: 1473.686+/-0.146 $\chi^2$/NDF: 13434357.7/9


eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: -1276.823+/-690.929 χ²/NDF: 13.4/19
Left Out: -773.576+/-502.816 χ²/NDF:28.6/23
Right Out: 338.697+/-643.783 χ²/NDF: 19.6/23
Left In: -385.269+/-506.052 χ²/NDF:15.6/22
Left: -580.668+/-356.683 χ²/NDF: 44.5/46
Right: -412.070+/-471.009 χ²/NDF: 35.9/43
In: -696.552+/-408.260 χ²/NDF:30.1/42
Out: -352.150+/-396.273 χ²/NDF:50.0/47
All: -519.221+/-284.351 χ²/NDF: 80.5/90




Right In: 2151.739+/-0.489 $\chi^2$/NDF: 182343.7/19

Left Out: 2164.532+/-0.356 $\chi^2$/NDF:50676.3/23

Right Out: 2162.088+/-0.455 $\chi^2$/NDF: 186912.0/23

Left In: 2165.643+/-0.358 $\chi^2$/NDF:52124.4/22

Left: 2165.084+/-0.252 $\chi^2$/NDF: 102805.6/46

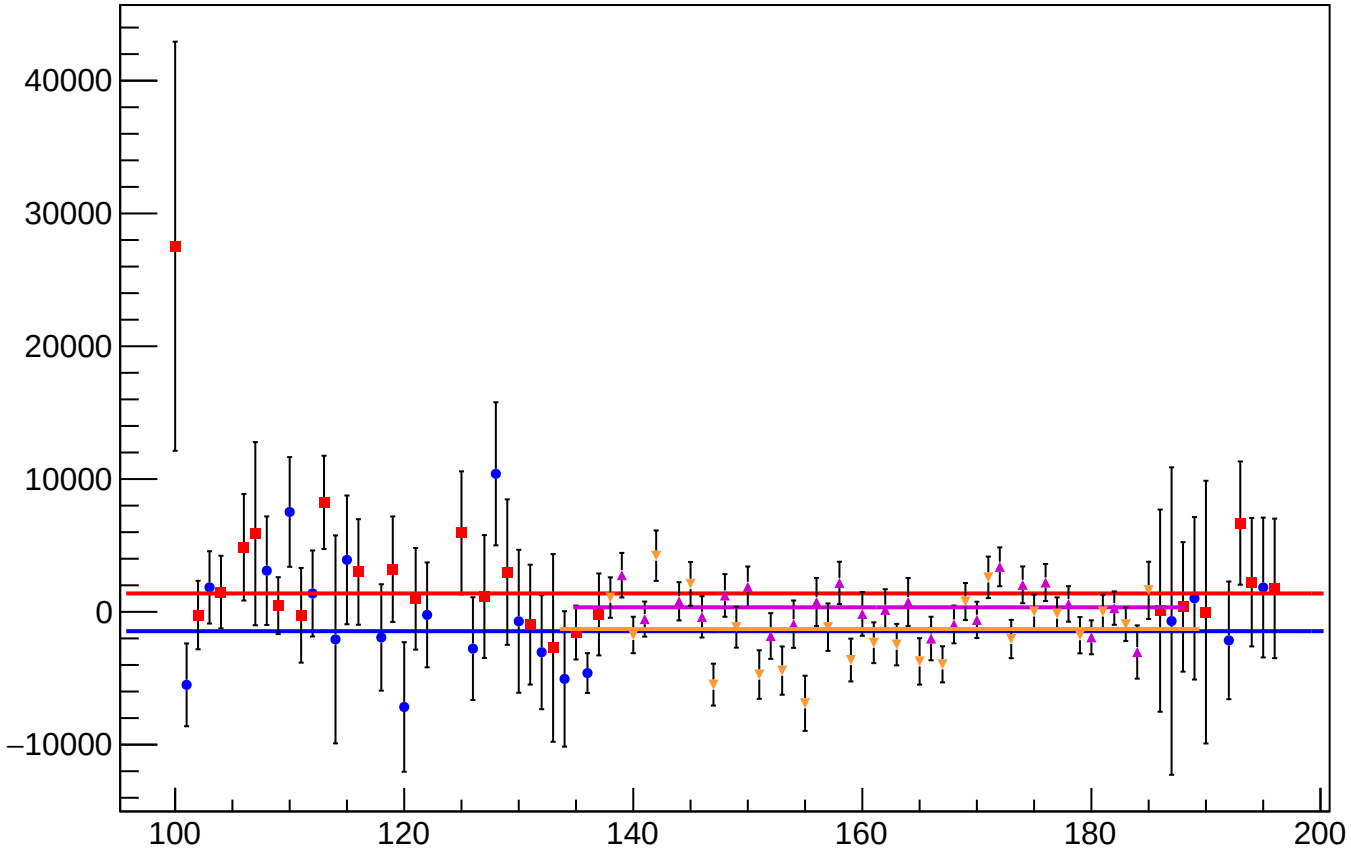
Right: 2157.278+/-0.333 $\chi^2$/NDF: 369495.9/43

In: 2160.788+/-0.289 $\chi^2$/NDF:234995.3/42

Out: 2163.606+/-0.280 $\chi^2$/NDF:237606.2/47

All: 2162.239+/-0.201 $\chi^2$/NDF: 472650.6/90

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -1456.217+/-823.654 $\chi^2$/NDF: 23.2/19

Left Out: -1293.717+/-310.622 $\chi^2$/NDF:58.7/23

Right Out: 1386.650+/-770.838 $\chi^2$/NDF: 14.5/23

Left In: 341.256+/-315.566 $\chi^2$/NDF:24.8/22

Left: -489.138+/-221.370 $\chi^2$/NDF: 97.1/46

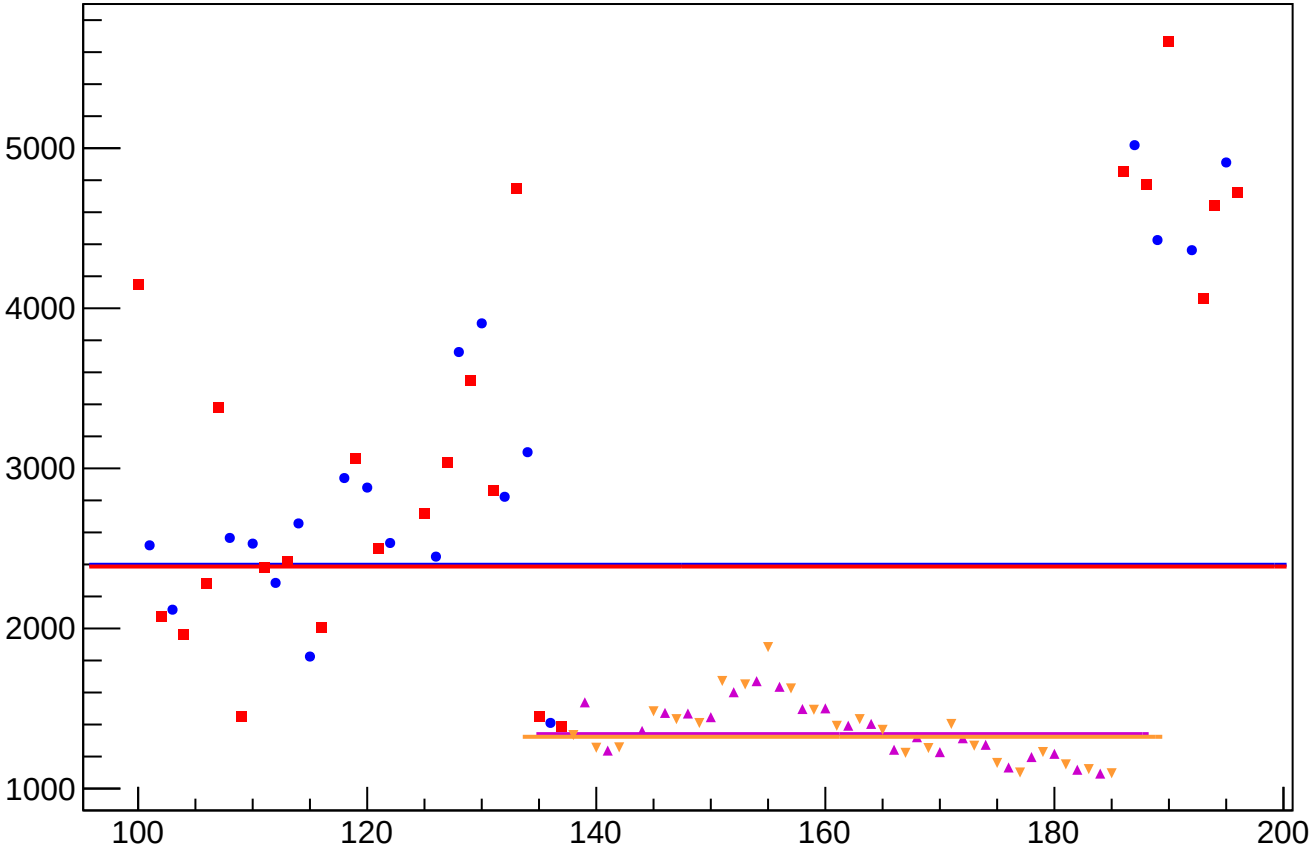
Right: 59.281+/-562.811 $\chi^2$/NDF: 44.1/43

In: 111.181+/-294.678 $\chi^2$/NDF:52.1/42

Out: -919.276+/-288.109 $\chi^2$/NDF:83.6/47

All: -415.661+/-206.007 $\chi^2$/NDF: 142.0/90

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 2397.914+/-0.582 $\chi^2$/NDF: 2497799.3/19

Left Out: 1323.402+/-0.220 $\chi^2$/NDF:663857.6/23

Right Out: 2386.879+/-0.545 $\chi^2$/NDF: 3626596.7/23

Left In: 1340.083+/-0.223 $\chi^2$/NDF:494276.1/22

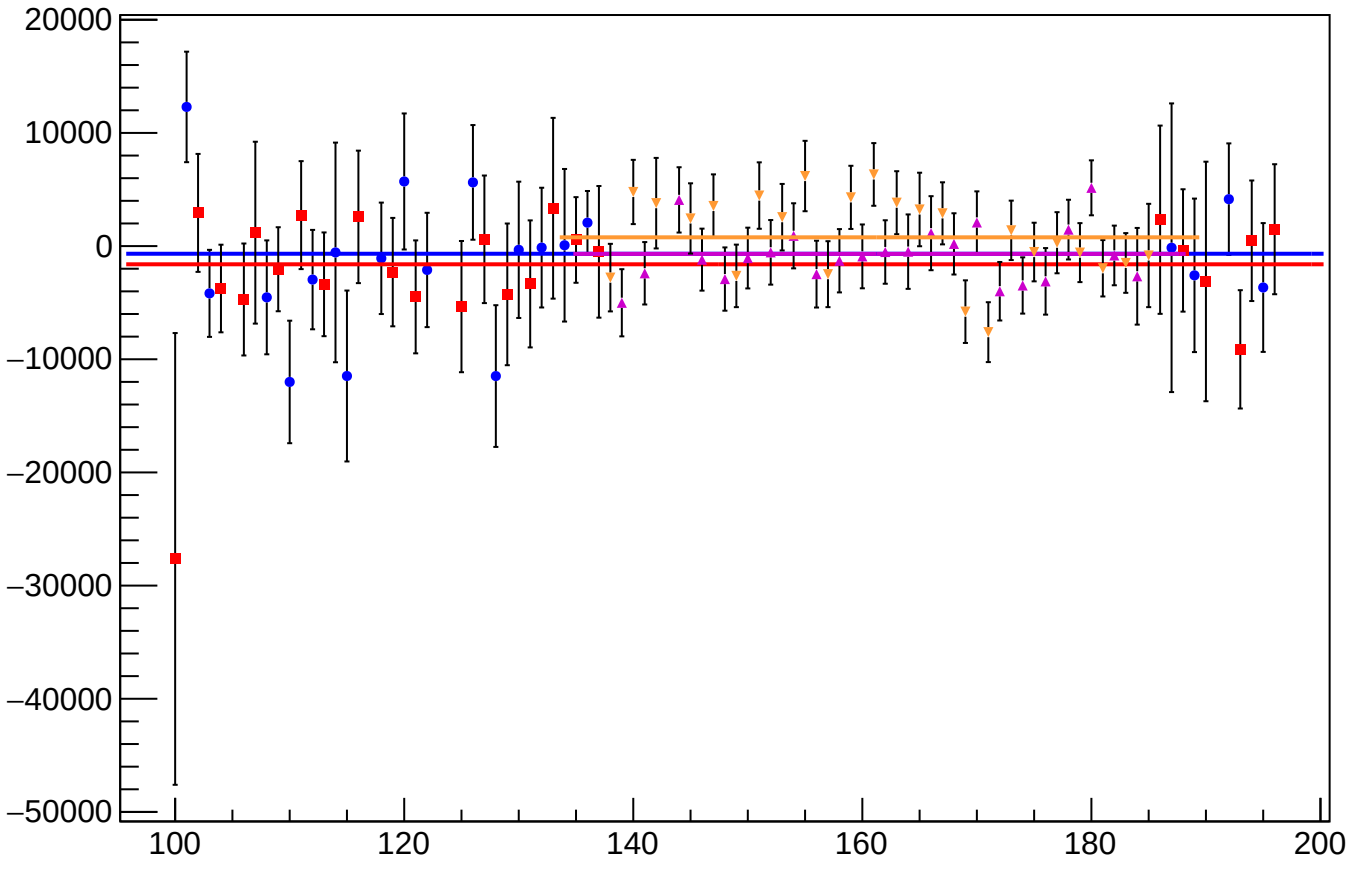
Left: 1331.611+/-0.157 $\chi^2$/NDF: 1160972.0/46

Right: 2392.031+/-0.398 $\chi^2$/NDF: 6124587.4/43

In: 1475.484+/-0.208 $\chi^2$/NDF:5868741.6/42

Out: 1471.967+/-0.204 $\chi^2$/NDF:7565450.2/47

All: 1473.686+/-0.146 $\chi^2$/NDF: 13434337.4/9




Right In: -676.372+/-1155.851 $\chi^2$/NDF: 23.2/19

Left Out: 774.788+/-583.692 $\chi^2$/NDF:39.3/23

Right Out: -1608.139+/-1095.832 $\chi^2$/NDF: 9.5/23

Left In: -689.981+/-587.431 $\chi^2$/NDF:18.3/22

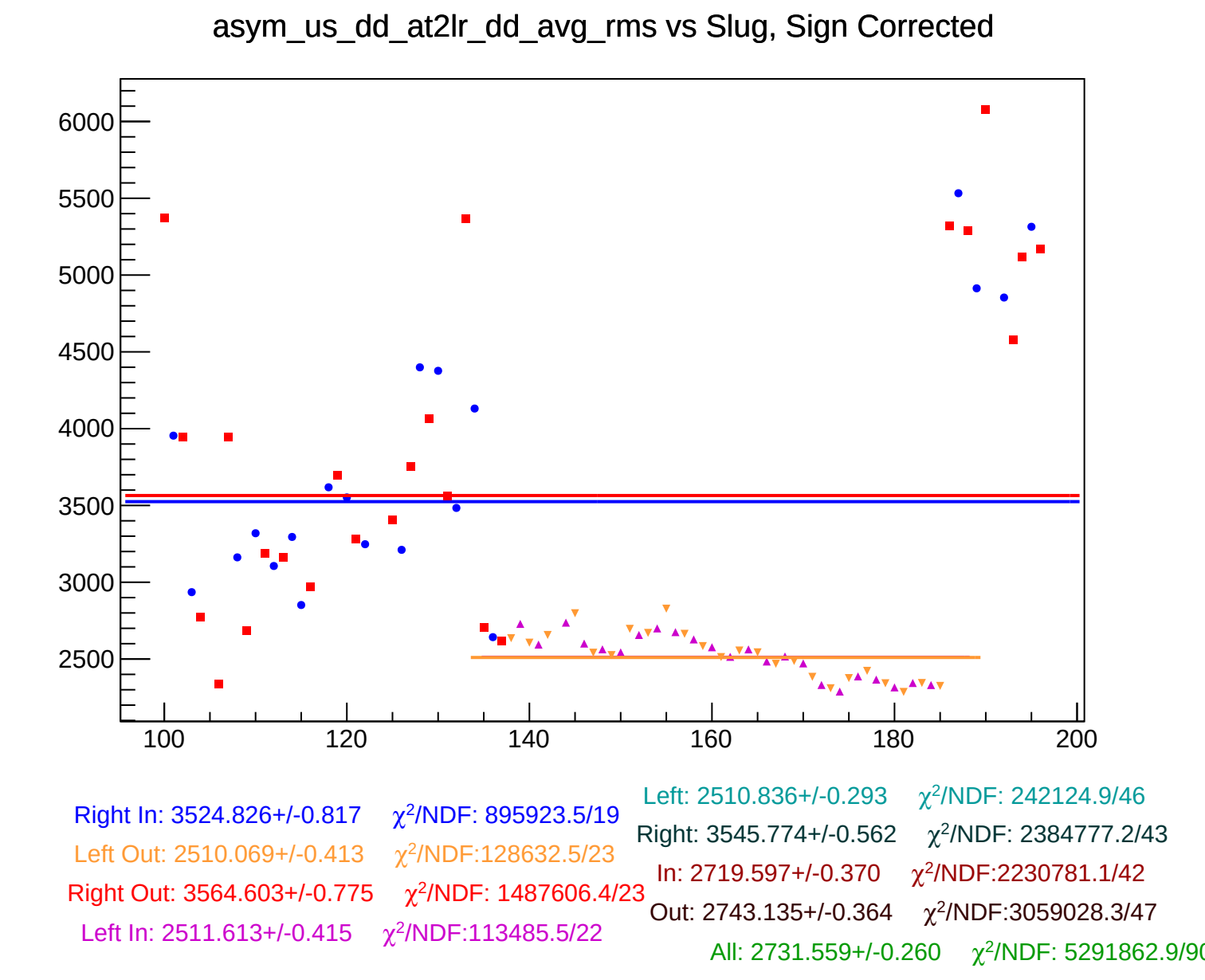
Left: 47.079+/-414.048 $\chi^2$/NDF: 60.8/46

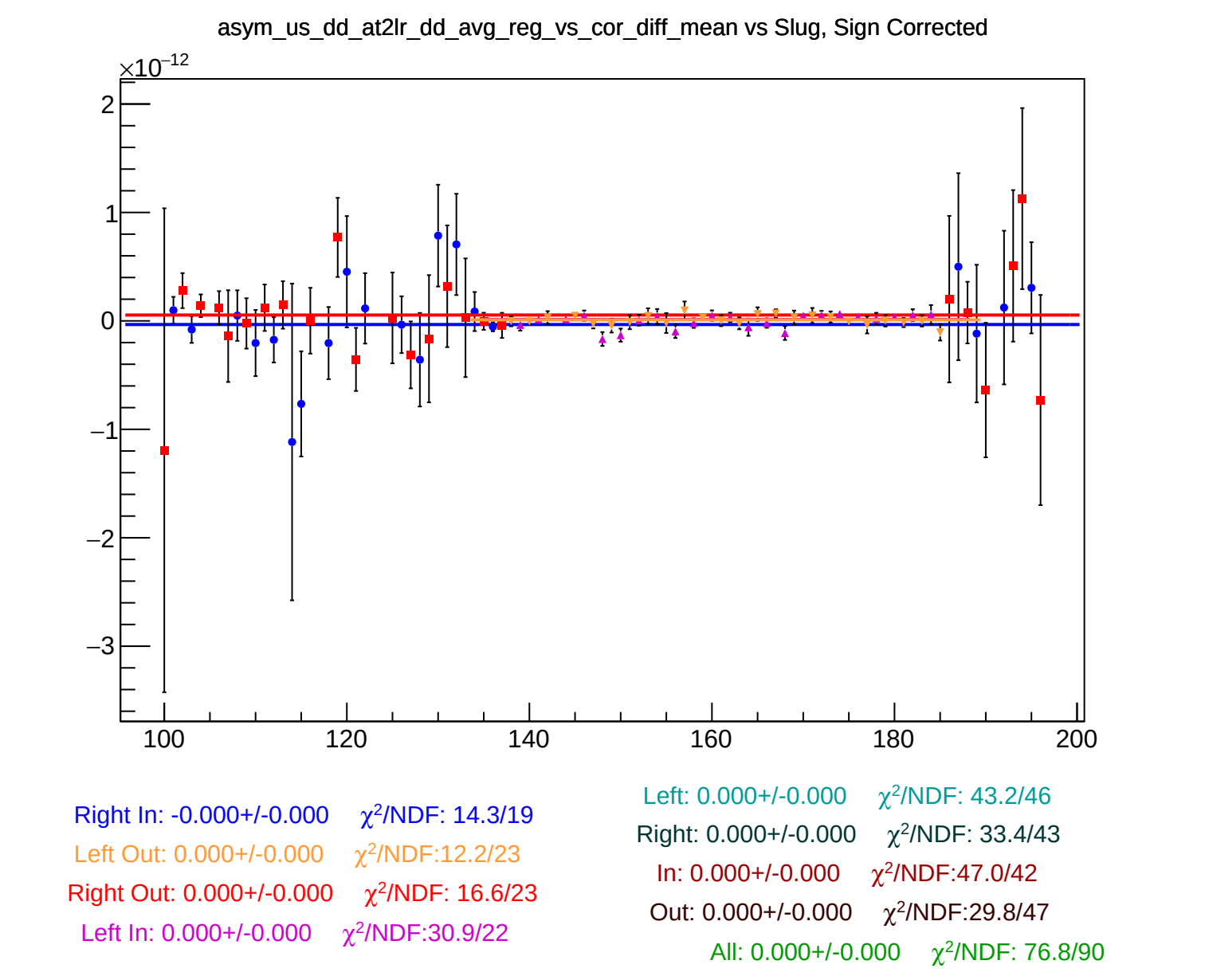
Right: -1167.074+/-795.242 $\chi^2$/NDF: 33.1/43

In: -687.187+/-523.680 $\chi^2$/NDF:41.5/42

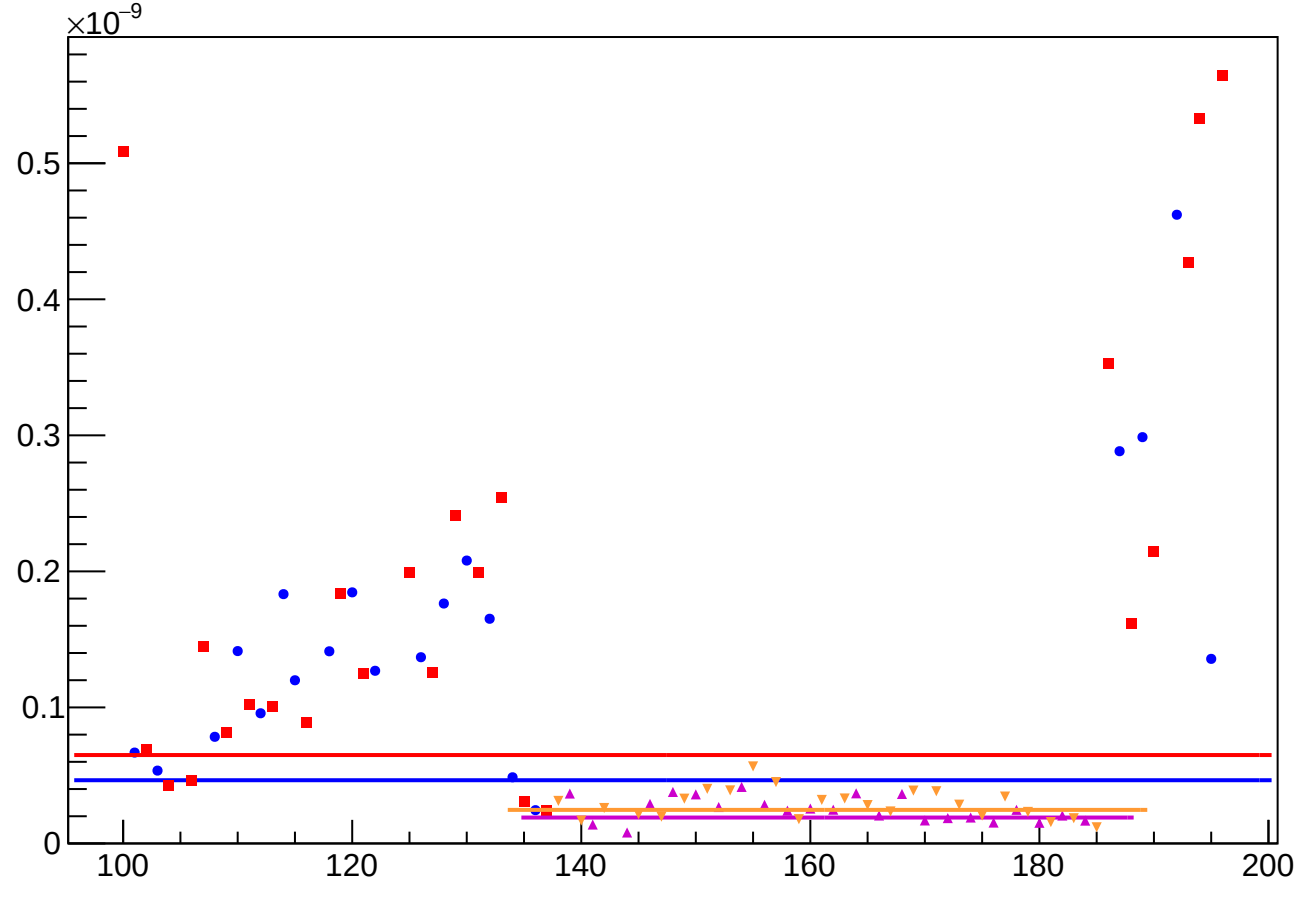
Out: 248.137+/-515.169 $\chi^2$/NDF:52.6/47

All: -211.863+/-367.252 $\chi^2$/NDF: 95.7/90


asym_us_dd_at2lr_dd_avg_rms vs Slug, Sign Corrected
6000
5500
5000
4500
4000
3500
3000
2500
100
120
140
160
180
200
Right In: 3524.826+/-0.817 χ²/NDF: 895923.5/19
Left Out: 2510.069+/-0.413 χ²/NDF:128632.5/23
Right Out: 3564.603+/-0.775 χ²/NDF: 1487606.4/23
Left In: 2511.613+/-0.415 χ²/NDF:113485.5/22
Left: 2510.836+/-0.293 χ²/NDF: 242124.9/46
Right: 3545.774+/-0.562 χ²/NDF: 2384777.2/43
In: 2719.597+/-0.370 χ²/NDF:2230781.1/42
Out: 2743.135+/-0.364 χ²/NDF:3059028.3/47
All: 2731.559+/-0.260 χ²/NDF: 5291862.9/90


asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 14.3/19
Left Out: 0.000+/-0.000 χ²/NDF:12.2/23
Right Out: 0.000+/-0.000 χ²/NDF: 16.6/23
Left In: 0.000+/-0.000 χ²/NDF:30.9/22
Left: 0.000+/-0.000 χ²/NDF: 43.2/46
Right: 0.000+/-0.000 χ²/NDF: 33.4/43
In: 0.000+/-0.000 χ²/NDF:47.0/42
Out: 0.000+/-0.000 χ²/NDF:29.8/47
All: 0.000+/-0.000 χ²/NDF: 76.8/90

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3491120.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1413212.9/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4472430.9/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2190334.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3972817.3/46

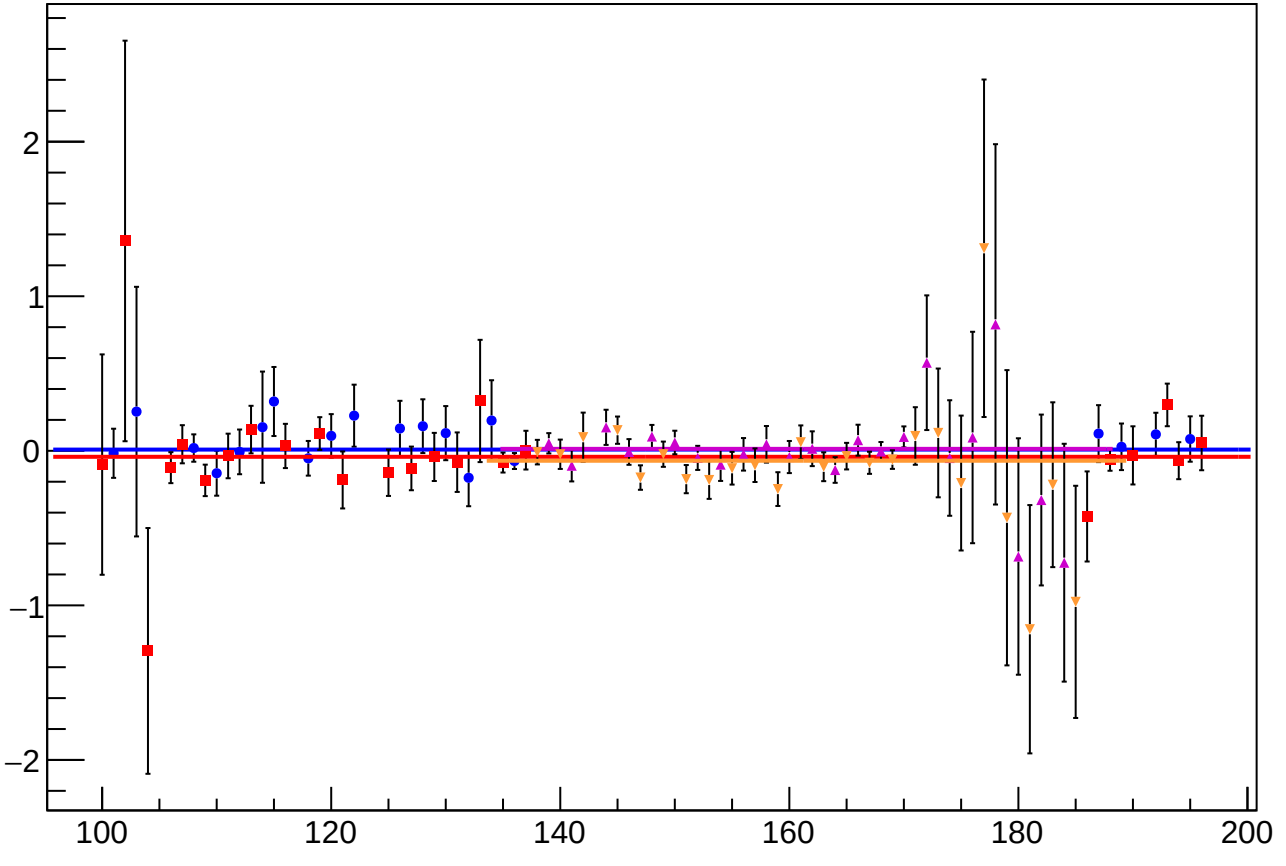
Right: 0.000+/-0.000 $\chi^2$/NDF: 8194103.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:6897577.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7590135.8/47

All: 0.000+/-0.000 $\chi^2$/NDF: 14949726.5/90

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.030 $\chi^2$/NDF: 11.5/19

Left Out: -0.064+/-0.022 $\chi^2$/NDF:22.3/23

Right Out: -0.039+/-0.027 $\chi^2$/NDF: 21.2/23

Left In: 0.013+/-0.021 $\chi^2$/NDF:15.0/22

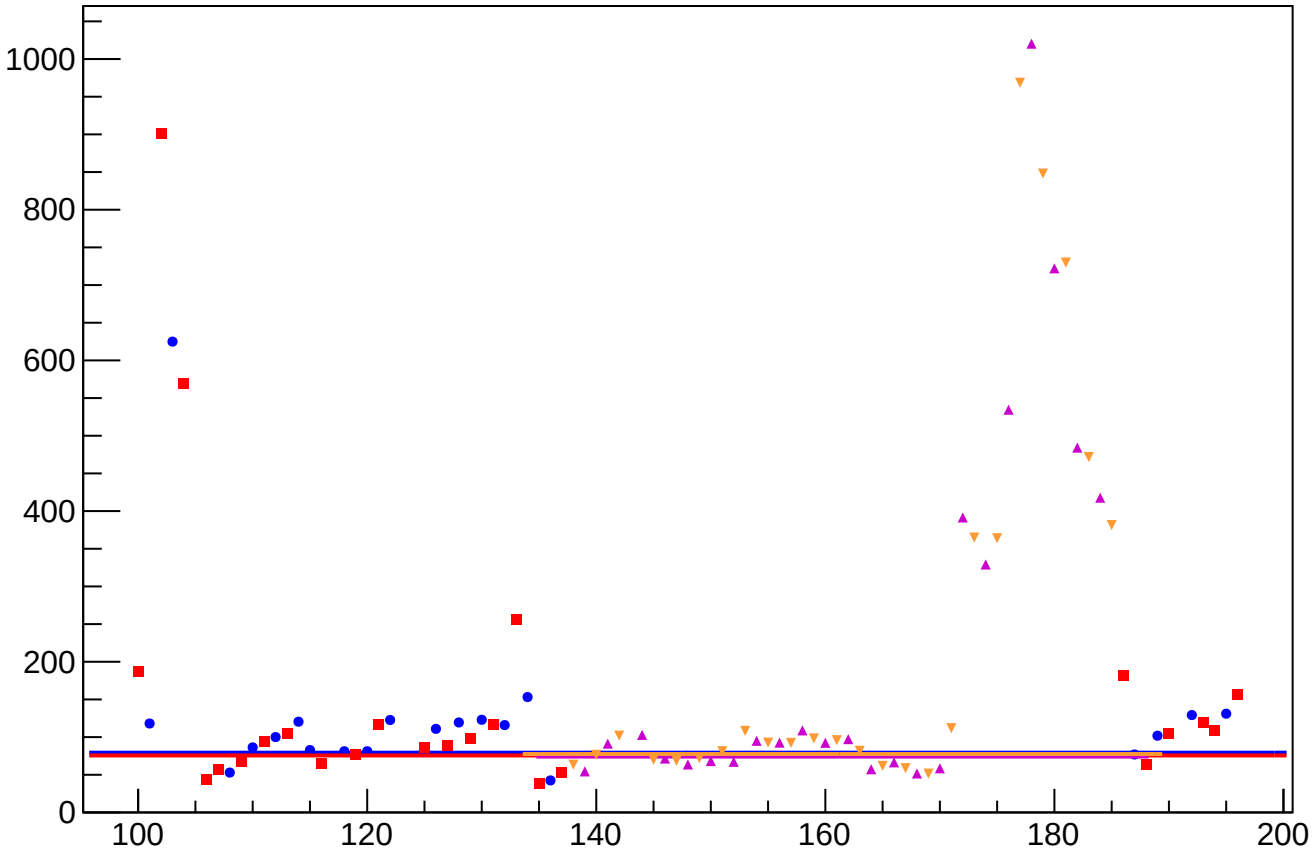
Left: -0.024+/-0.015 $\chi^2$/NDF: 43.7/46

Right: -0.018+/-0.020 $\chi^2$/NDF: 34.1/43

In: 0.011+/-0.017 $\chi^2$/NDF:26.6/42

Out: -0.054+/-0.017 $\chi^2$/NDF:44.1/47

All: -0.022+/-0.012 $\chi^2$/NDF: 77.9/90




Right In: 79.349+/-0.021 $\chi^2$/NDF: 3476033.5/19

Left Out: 77.533+/-0.016 $\chi^2$/NDF:8331194.0/23

Right Out: 75.632+/-0.019 $\chi^2$/NDF: 4568895.5/23

Left In: 74.216+/-0.015 $\chi^2$/NDF:8514080.5/22

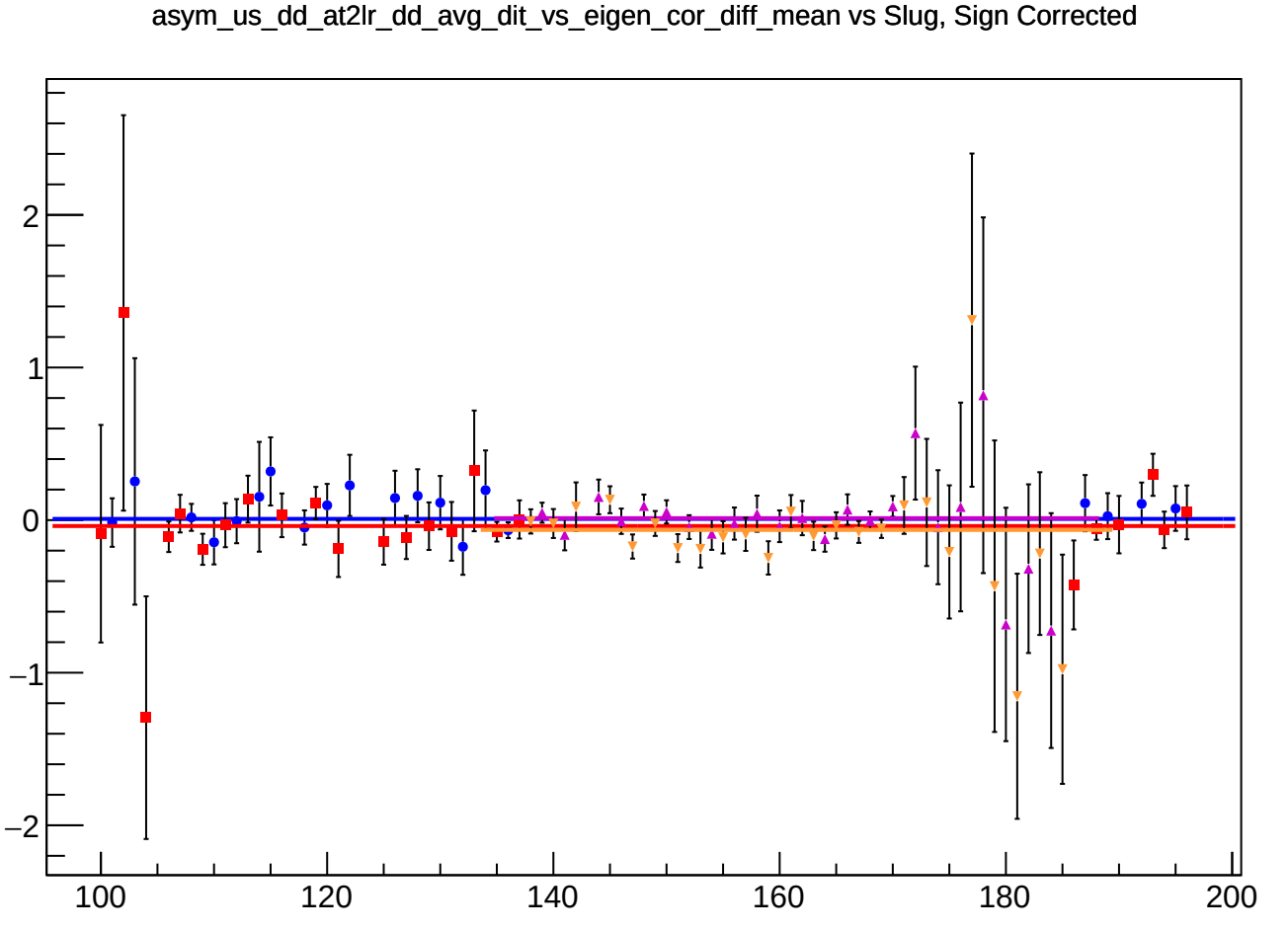
Left: 75.800+/-0.011 $\chi^2$/NDF: 16868814.0/46

Right: 77.302+/-0.014 $\chi^2$/NDF: 8062184.3/43

In: 75.941+/-0.012 $\chi^2$/NDF:12029790.7/42

Out: 76.764+/-0.012 $\chi^2$/NDF:12906074.3/47

All: 76.356+/-0.009 $\chi^2$/NDF: 24938173.6/90




Right In: 0.008+/-0.030 $\chi^2$/NDF: 11.5/19

Left Out: -0.064+/-0.022 $\chi^2$/NDF:22.3/23

Right Out: -0.039+/-0.027 $\chi^2$/NDF: 21.2/23

Left In: 0.013+/-0.021 $\chi^2$/NDF:15.0/22

Left: -0.024+/-0.015 $\chi^2$/NDF: 43.7/46

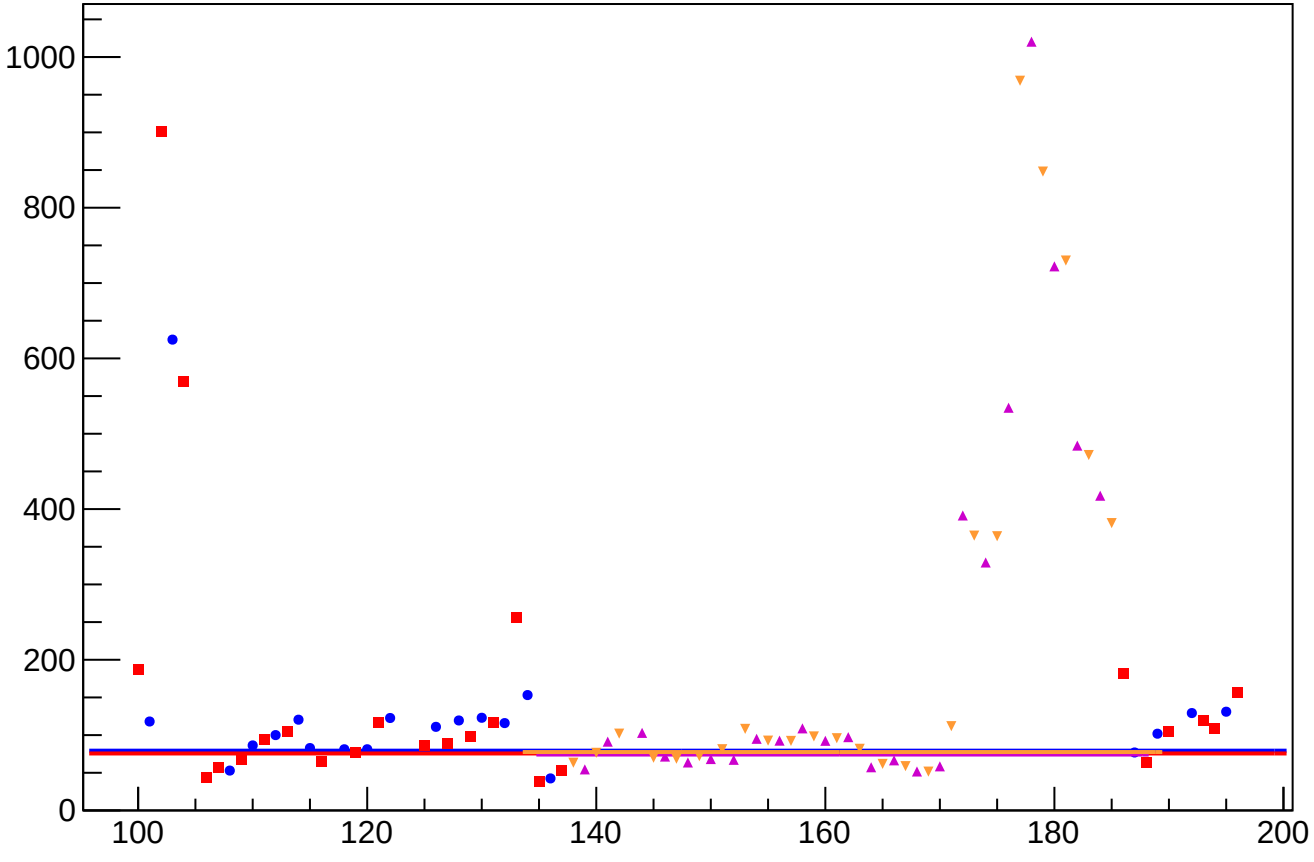
Right: -0.018+/-0.020 $\chi^2$/NDF: 34.1/43

In: 0.011+/-0.017 $\chi^2$/NDF:26.6/42

Out: -0.054+/-0.017 $\chi^2$/NDF:44.1/47

All: -0.022+/-0.012 $\chi^2$/NDF: 77.9/90

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 79.349+/-0.021 $\chi^2$/NDF: 3476033.5/19

Left Out: 77.533+/-0.016 $\chi^2$/NDF:8331194.0/23

Right Out: 75.632+/-0.019 $\chi^2$/NDF: 4568895.5/23

Left In: 74.216+/-0.015 $\chi^2$/NDF:8514080.5/22

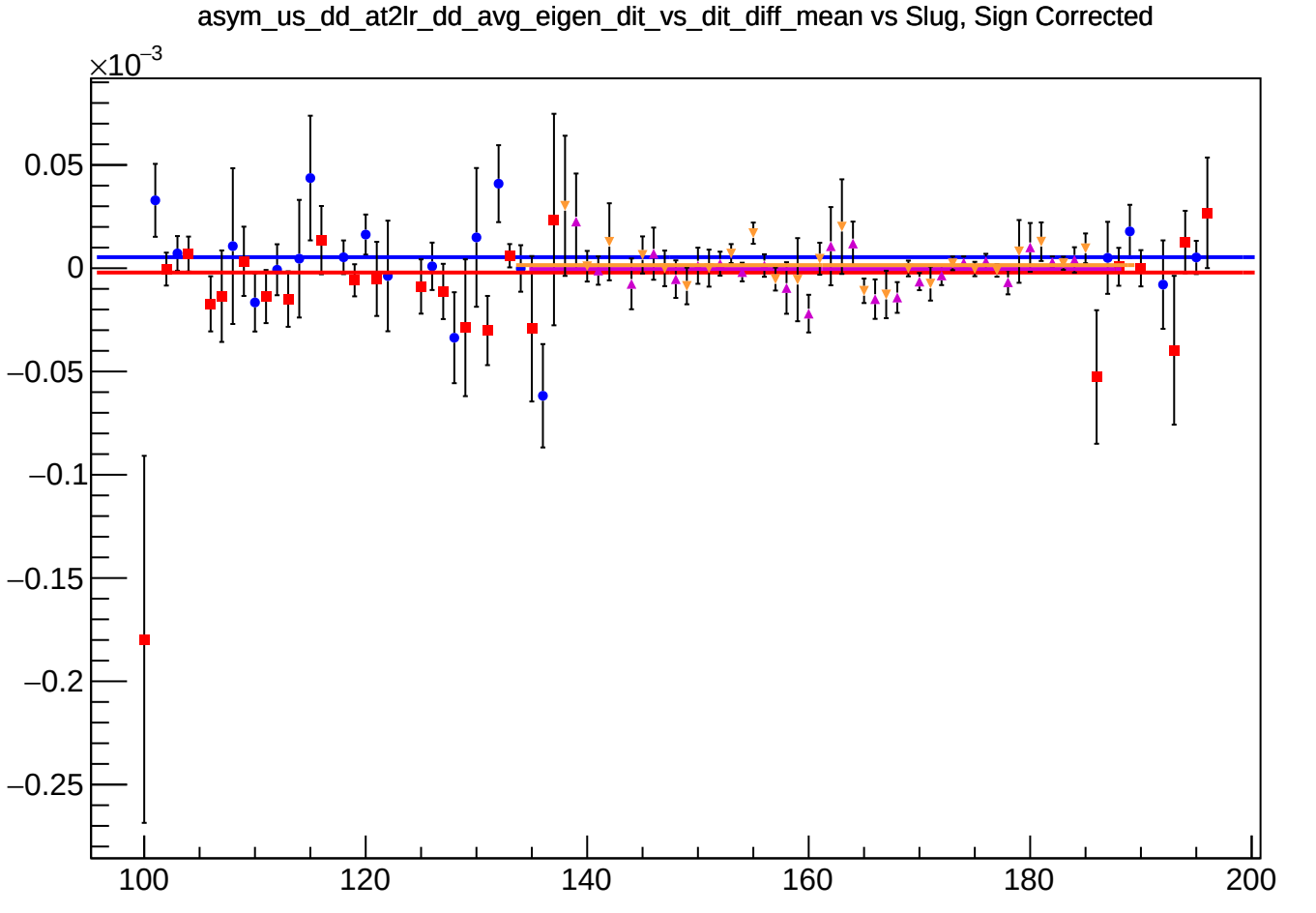
Left: 75.800+/-0.011 $\chi^2$/NDF: 16868814.0/46

Right: 77.302+/-0.014 $\chi^2$/NDF: 8062184.3/43

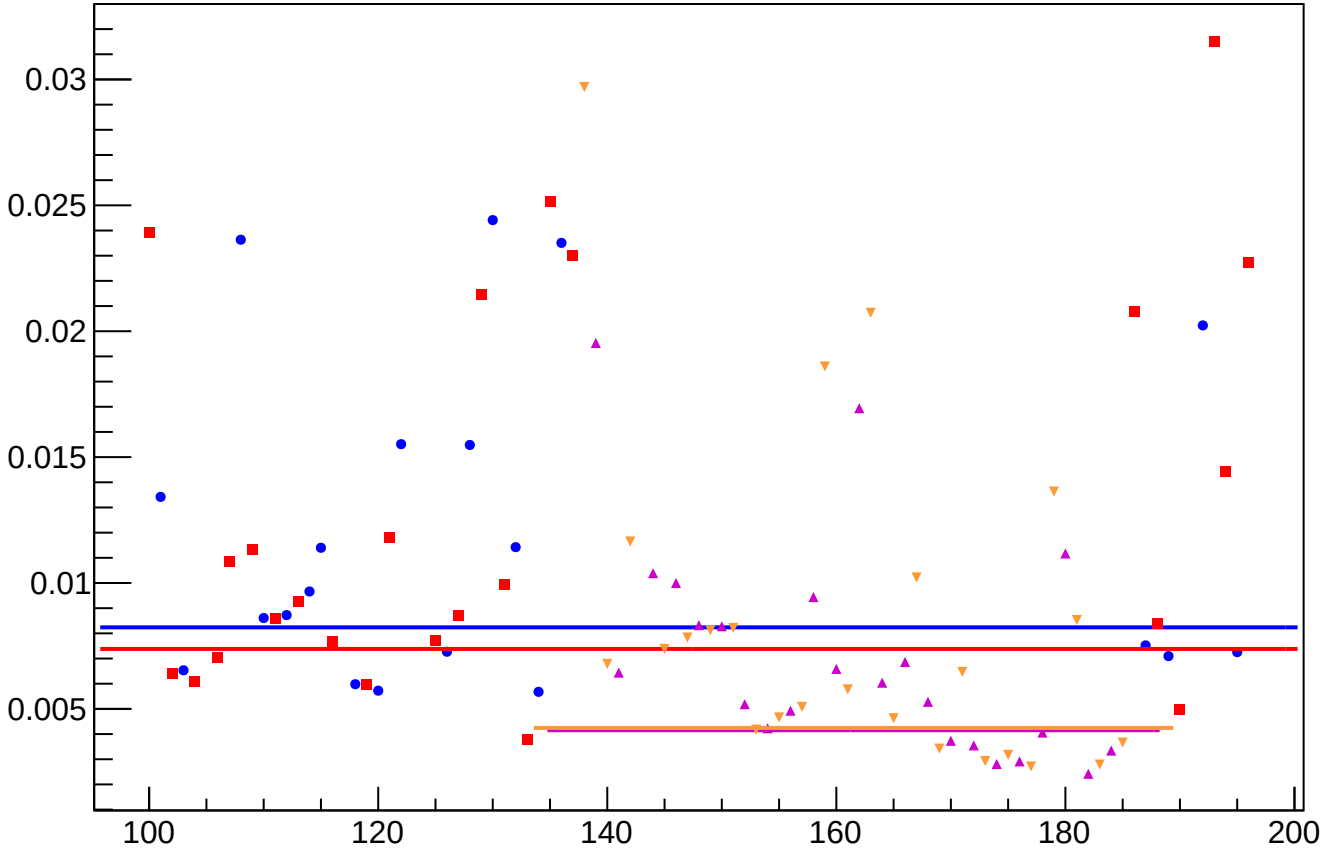
In: 75.941+/-0.012 $\chi^2$/NDF:12029790.7/42

Out: 76.764+/-0.012 $\chi^2$/NDF:12906074.3/47

All: 76.356+/-0.009 $\chi^2$/NDF: 24938173.6/90


asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10^−3
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 23.9/19
Left Out: 0.000+/-0.000 χ²/NDF:27.1/23
Right Out: -0.000+/-0.000 χ²/NDF: 22.6/23
Left In: -0.000+/-0.000 χ²/NDF:24.6/22
Left: 0.000+/-0.000 χ²/NDF: 52.9/46
Right: 0.000+/-0.000 χ²/NDF: 50.2/43
In: 0.000+/-0.000 χ²/NDF:51.6/42
Out: 0.000+/-0.000 χ²/NDF:51.4/47
All: 0.000+/-0.000 χ²/NDF: 103.1/90

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: 3332983.6/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:8650909.7/23

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 5003751.1/23

Left In: 0.004+/-0.000 $\chi^2$/NDF:6886421.5/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 15543472.1/46

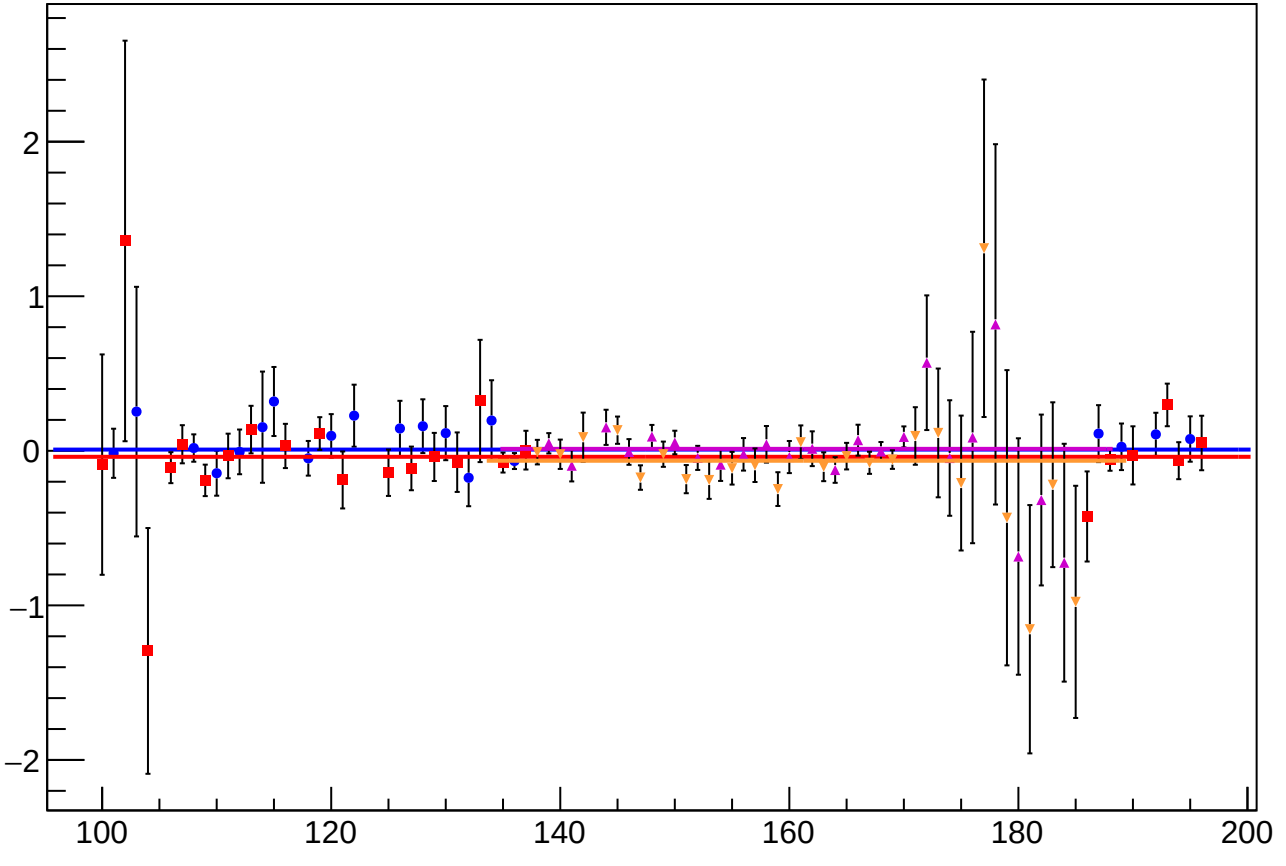
Right: 0.008+/-0.000 $\chi^2$/NDF: 8431010.3/43

In: 0.005+/-0.000 $\chi^2$/NDF:13374447.6/42

Out: 0.005+/-0.000 $\chi^2$/NDF:16205816.6/47

All: 0.005+/-0.000 $\chi^2$/NDF: 29587709.1/90

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.030 $\chi^2$/NDF: 11.5/19

Left Out: -0.064+/-0.022 $\chi^2$/NDF:22.3/23

Right Out: -0.039+/-0.027 $\chi^2$/NDF: 21.2/23

Left In: 0.013+/-0.021 $\chi^2$/NDF:15.0/22

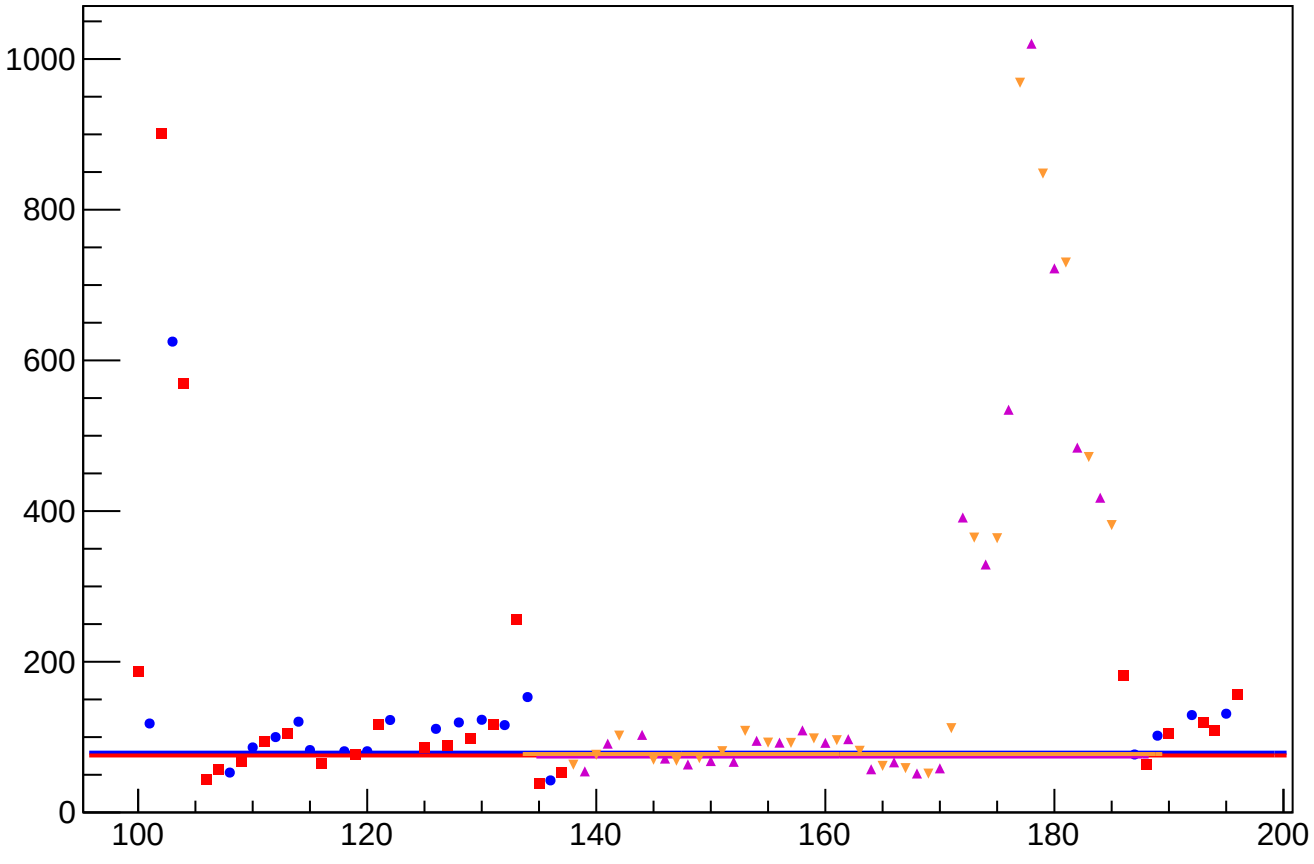
Left: -0.024+/-0.015 $\chi^2$/NDF: 43.7/46

Right: -0.018+/-0.020 $\chi^2$/NDF: 34.1/43

In: 0.011+/-0.017 $\chi^2$/NDF:26.6/42

Out: -0.054+/-0.017 $\chi^2$/NDF:44.1/47

All: -0.022+/-0.012 $\chi^2$/NDF: 77.9/90




Right In: 79.372+/-0.021 $\chi^2$/NDF: 3473055.0/19

Left Out: 77.533+/-0.016 $\chi^2$/NDF:8331106.7/23

Right Out: 75.623+/-0.019 $\chi^2$/NDF: 4570126.7/23

Left In: 74.217+/-0.015 $\chi^2$/NDF:8513791.3/22

Left: 75.800+/-0.011 $\chi^2$/NDF: 16868415.3/46

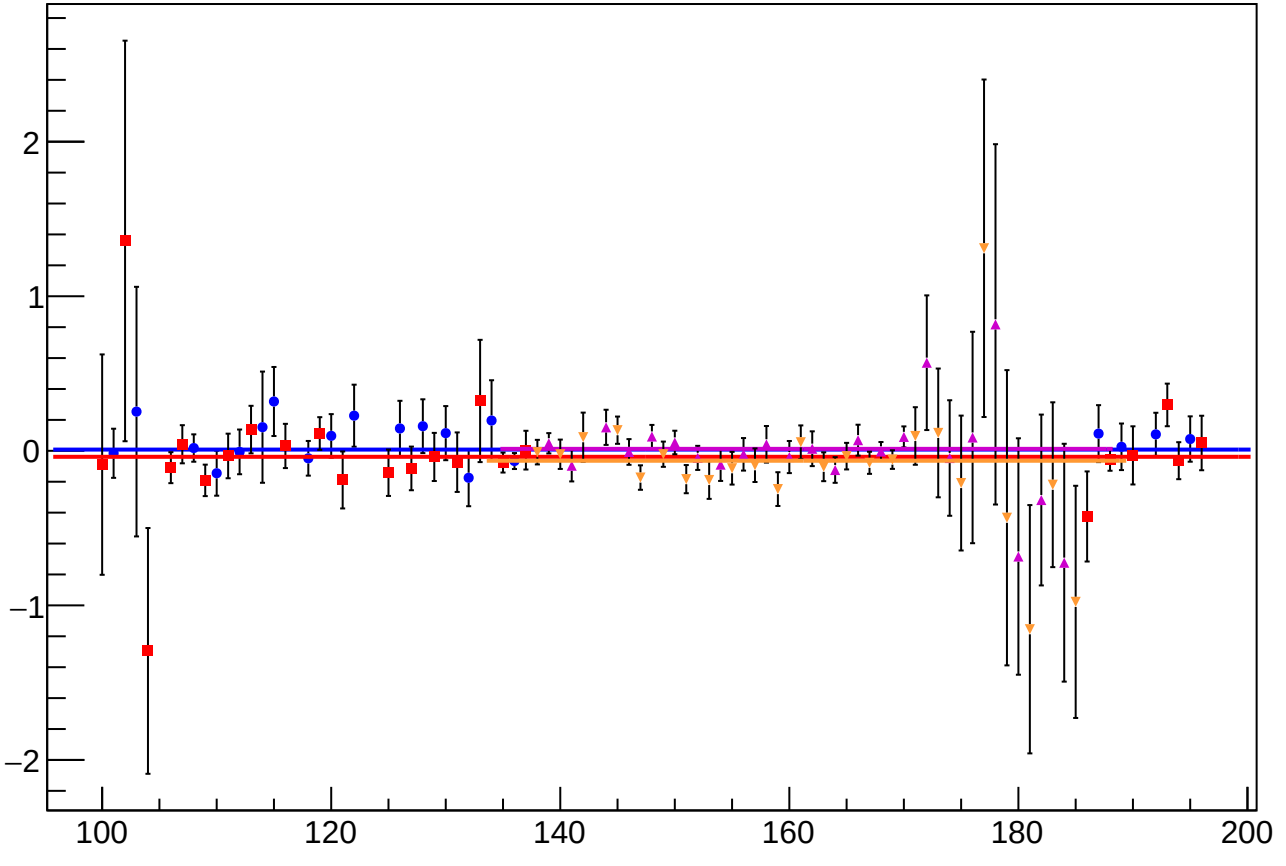
Right: 77.308+/-0.014 $\chi^2$/NDF: 8060731.3/43

In: 75.949+/-0.012 $\chi^2$/NDF:12026855.4/42

Out: 76.761+/-0.012 $\chi^2$/NDF:12907270.5/47

All: 76.359+/-0.009 $\chi^2$/NDF: 24936367.8/90

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.008+/-0.030 $\chi^2$/NDF: 11.5/19

Left Out: -0.064+/-0.022 $\chi^2$/NDF:22.3/23

Right Out: -0.039+/-0.027 $\chi^2$/NDF: 21.2/23

Left In: 0.013+/-0.021 $\chi^2$/NDF:15.0/22

Left: -0.024+/-0.015 $\chi^2$/NDF: 43.7/46

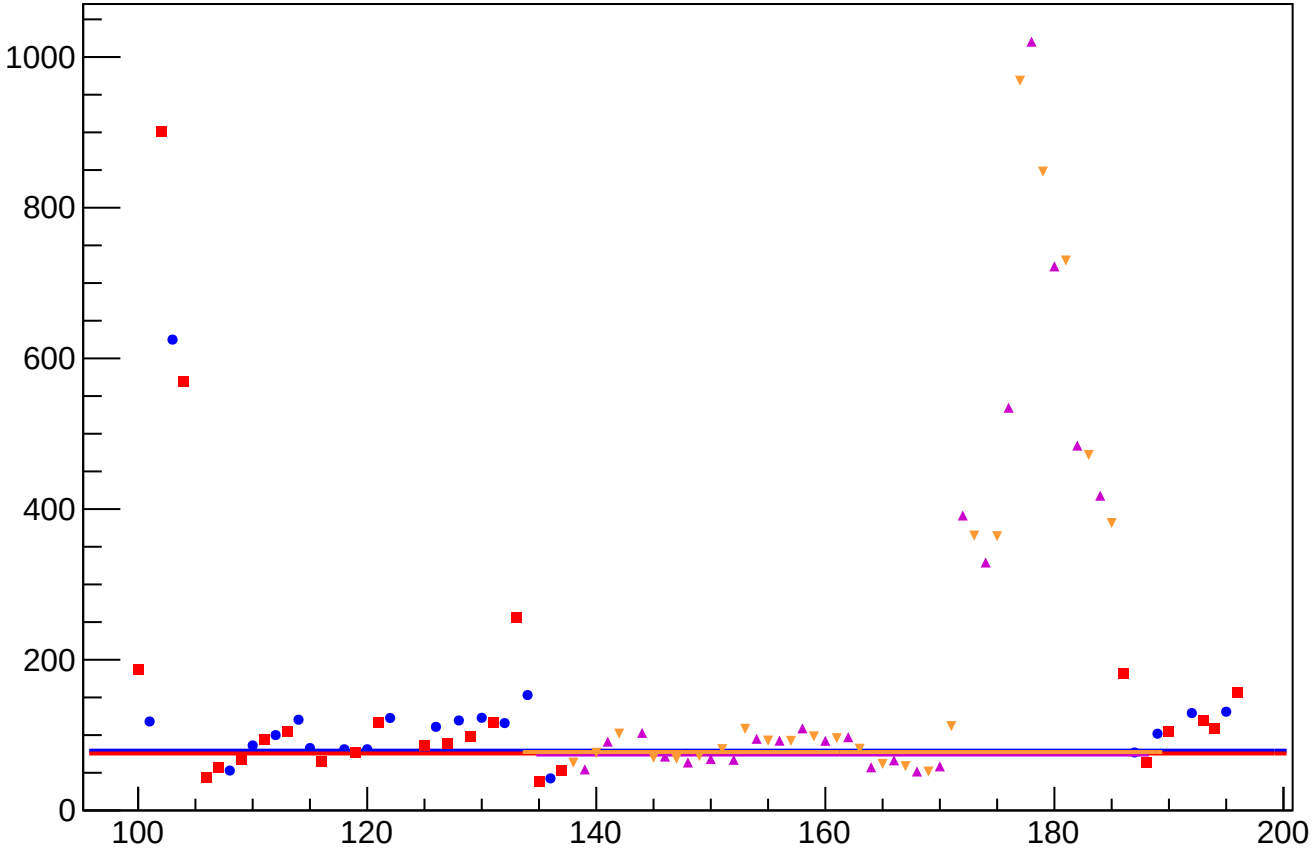
Right: -0.018+/-0.020 $\chi^2$/NDF: 34.1/43

In: 0.011+/-0.017 $\chi^2$/NDF:26.6/42

Out: -0.054+/-0.017 $\chi^2$/NDF:44.1/47

All: -0.022+/-0.012 $\chi^2$/NDF: 77.9/90

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 79.372+/-0.021 $\chi^2$/NDF: 3473055.0/19

Left Out: 77.533+/-0.016 $\chi^2$/NDF:8331106.7/23

Right Out: 75.623+/-0.019 $\chi^2$/NDF: 4570126.7/23

Left In: 74.217+/-0.015 $\chi^2$/NDF:8513791.3/22

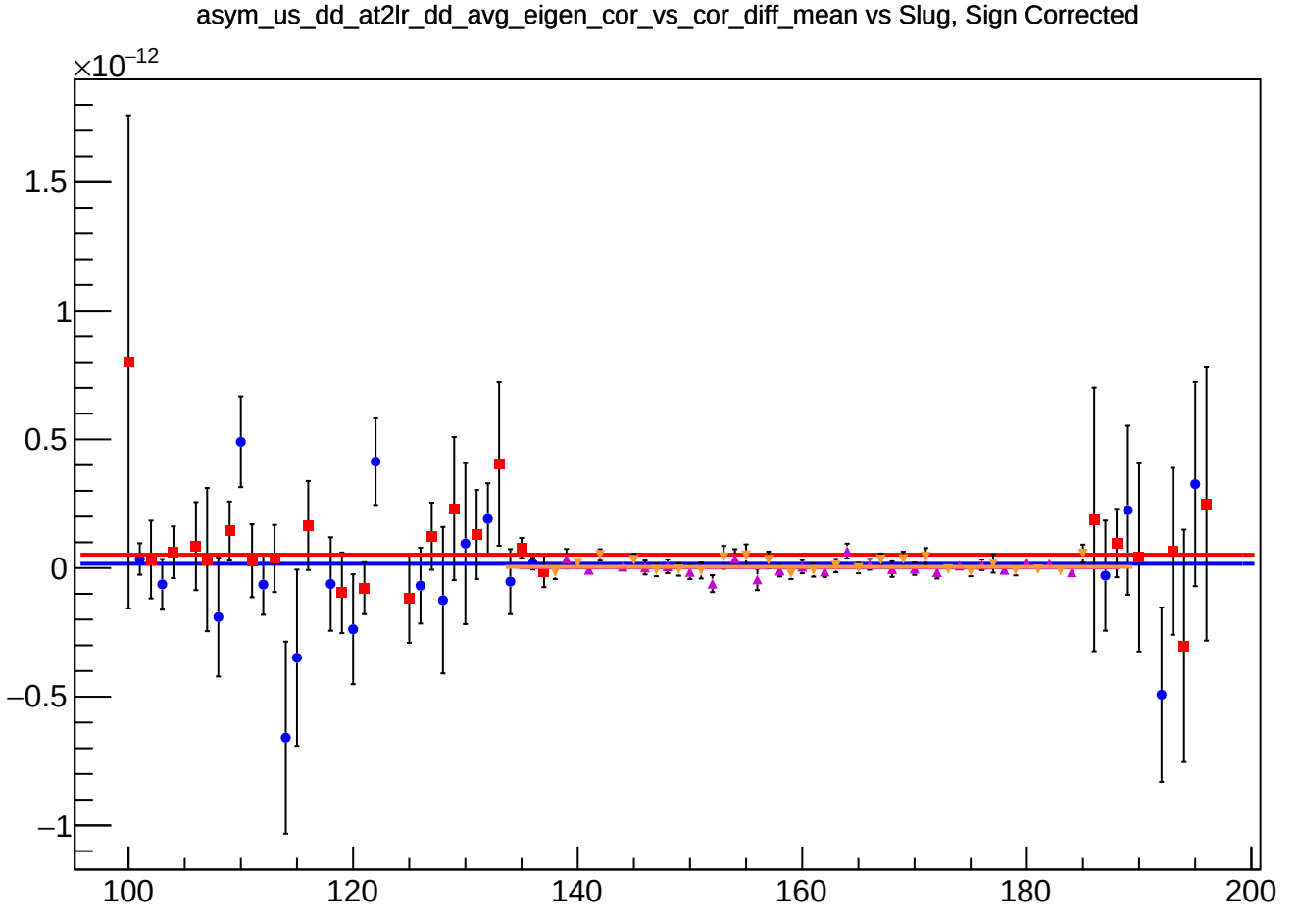
Left: 75.800+/-0.011 $\chi^2$/NDF: 16868415.3/46

Right: 77.308+/-0.014 $\chi^2$/NDF: 8060731.3/43

In: 75.949+/-0.012 $\chi^2$/NDF:12026855.4/42

Out: 76.761+/-0.012 $\chi^2$/NDF:12907270.5/47

All: 76.359+/-0.009 $\chi^2$/NDF: 24936367.8/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.7/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 10.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 39.3/46

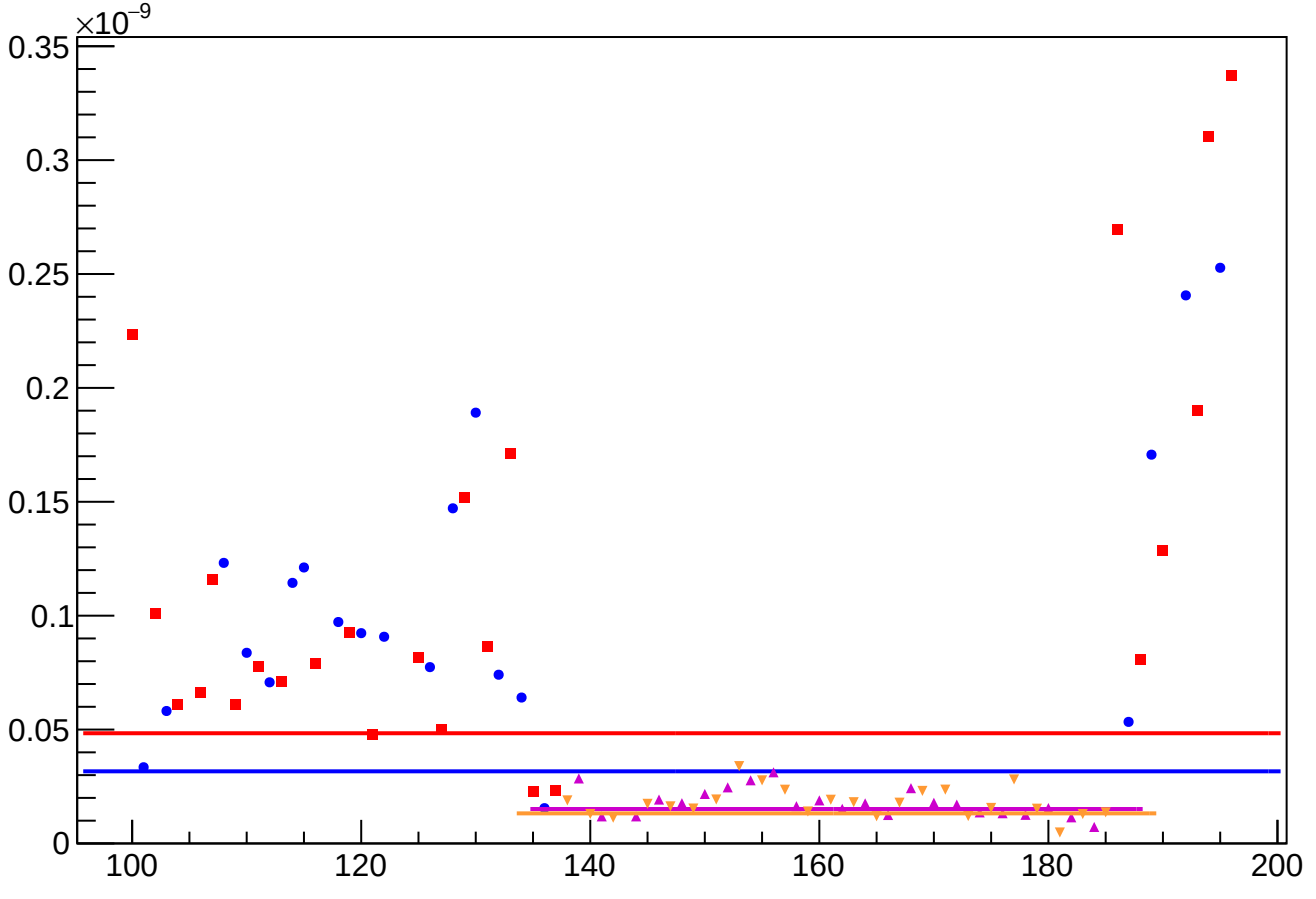
Right: 0.000+/-0.000 $\chi^2$/NDF: 38.0/43

In: 0.000+/-0.000 $\chi^2$/NDF:44.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:35.4/47

All: 0.000+/-0.000 $\chi^2$/NDF: 80.3/90

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5859912.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4237321.5/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5072300.6/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2148796.4/22

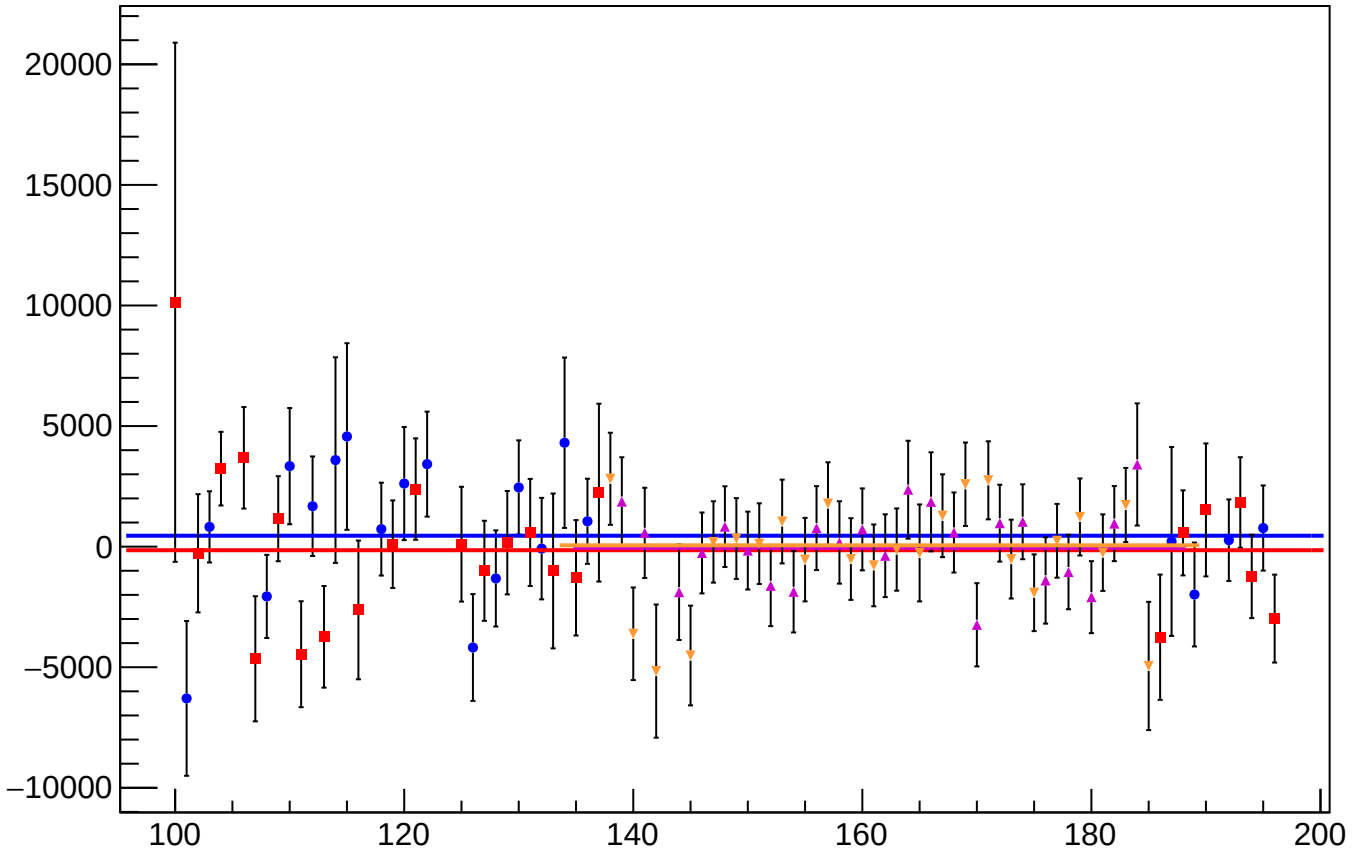
Left: 0.000+/-0.000 $\chi^2$/NDF: 6568948.9/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 11519367.5/43

In: 0.000+/-0.000 $\chi^2$/NDF:9414226.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13414829.7/47

All: 0.000+/-0.000 $\chi^2$/NDF: 22986448.3/90




Right In: 453.175+/-477.802 $\chi^2$/NDF: 21.7/19

Left Out: 54.770+/-356.375 $\chi^2$/NDF:28.5/23

Right Out: -148.387+/-443.772 $\chi^2$/NDF: 29.1/23

Left In: -48.177+/-359.531 $\chi^2$/NDF:16.8/22

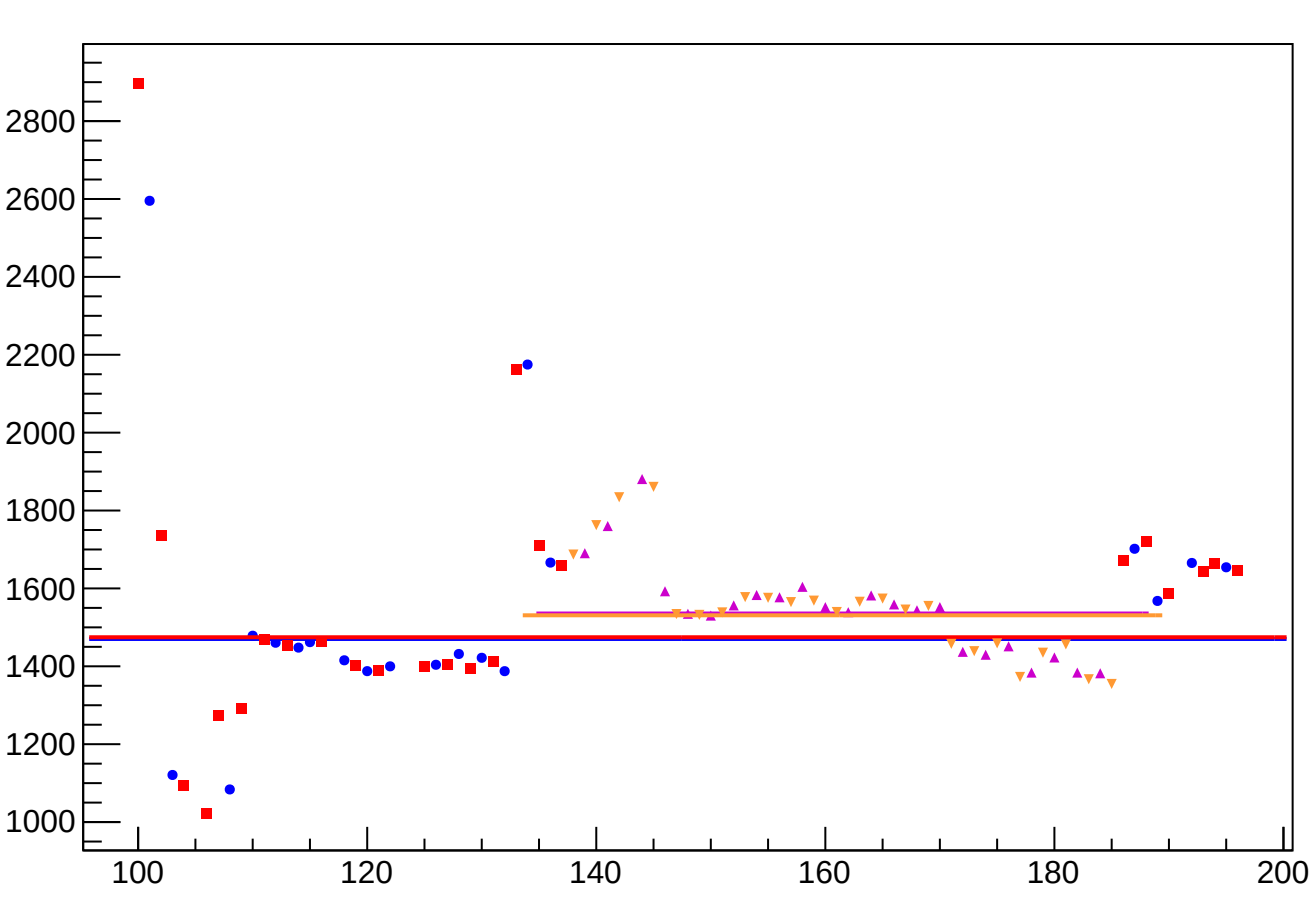
Left: 3.751+/-253.103 $\chi^2$/NDF: 45.3/46

Right: 130.211+/-325.160 $\chi^2$/NDF: 51.7/43

In: 133.069+/-287.284 $\chi^2$/NDF:39.2/42

Out: -24.880+/-277.867 $\chi^2$/NDF:57.7/47

All: 51.464+/-199.728 $\chi^2$/NDF: 97.0/90




Right In: 1470.205+/-0.338 $\chi^2$/NDF: 635364.7/19

Left Out: 1530.976+/-0.252 $\chi^2$/NDF:203539.8/23

Right Out: 1474.580+/-0.314 $\chi^2$/NDF: 551395.3/23

Left In: 1535.551+/-0.254 $\chi^2$/NDF:192432.7/22

Left: 1533.243+/-0.179 $\chi^2$/NDF: 396135.8/46

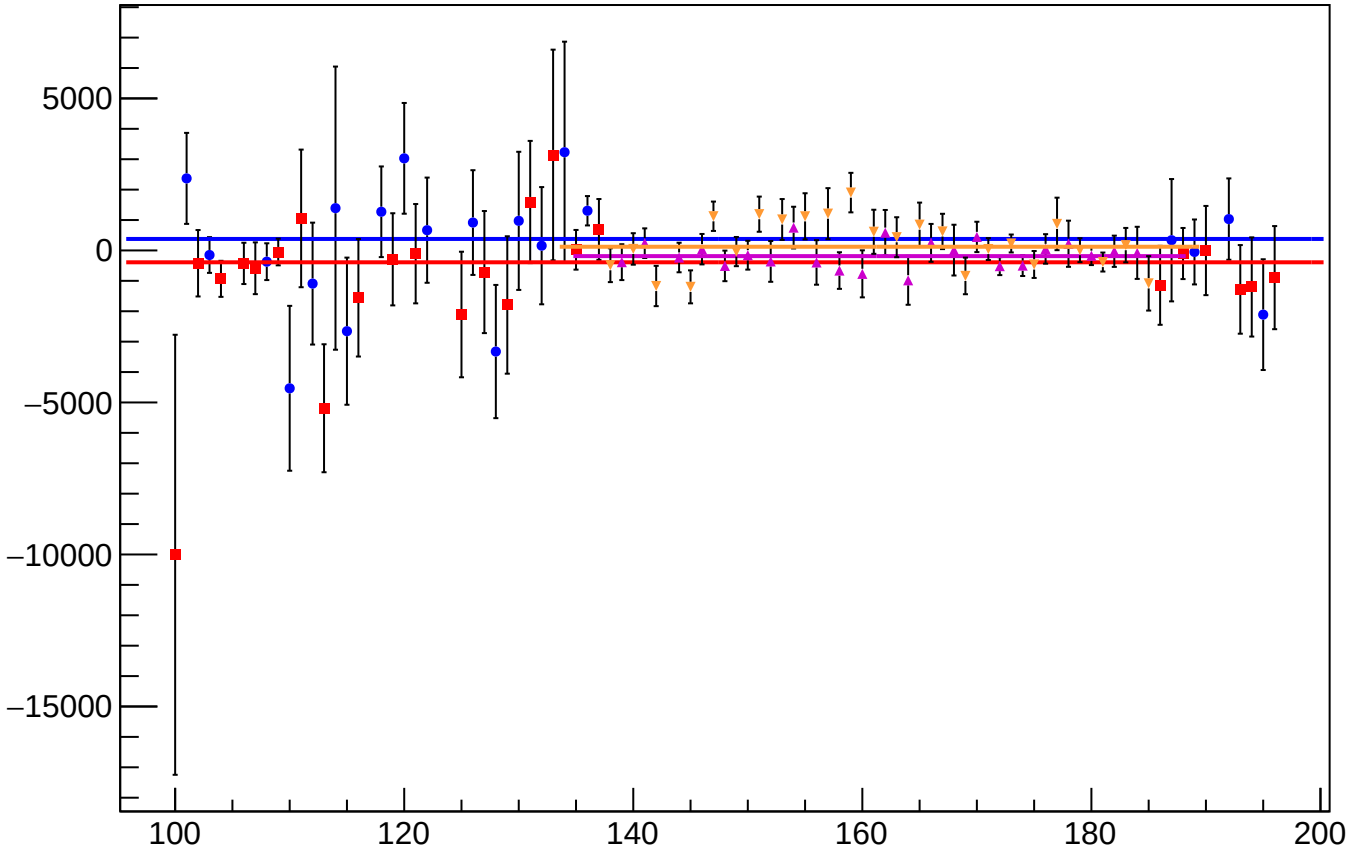
Right: 1472.554+/-0.230 $\chi^2$/NDF: 1186850.0/43

In: 1511.927+/-0.203 $\chi^2$/NDF:851681.8/42

Out: 1508.865+/-0.196 $\chi^2$/NDF:774571.6/47

All: 1510.345+/-0.141 $\chi^2$/NDF: 1626370.8/90

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 377.835+/-257.174 $\chi^2$/NDF: 21.7/19

Left Out: 121.327+/-105.060 $\chi^2$/NDF:43.6/23

Right Out: -390.151+/-213.346 $\chi^2$/NDF: 15.2/23

Left In: -186.828+/-106.975 $\chi^2$/NDF:11.6/22

Left: -29.966+/-74.957 $\chi^2$/NDF: 59.5/46

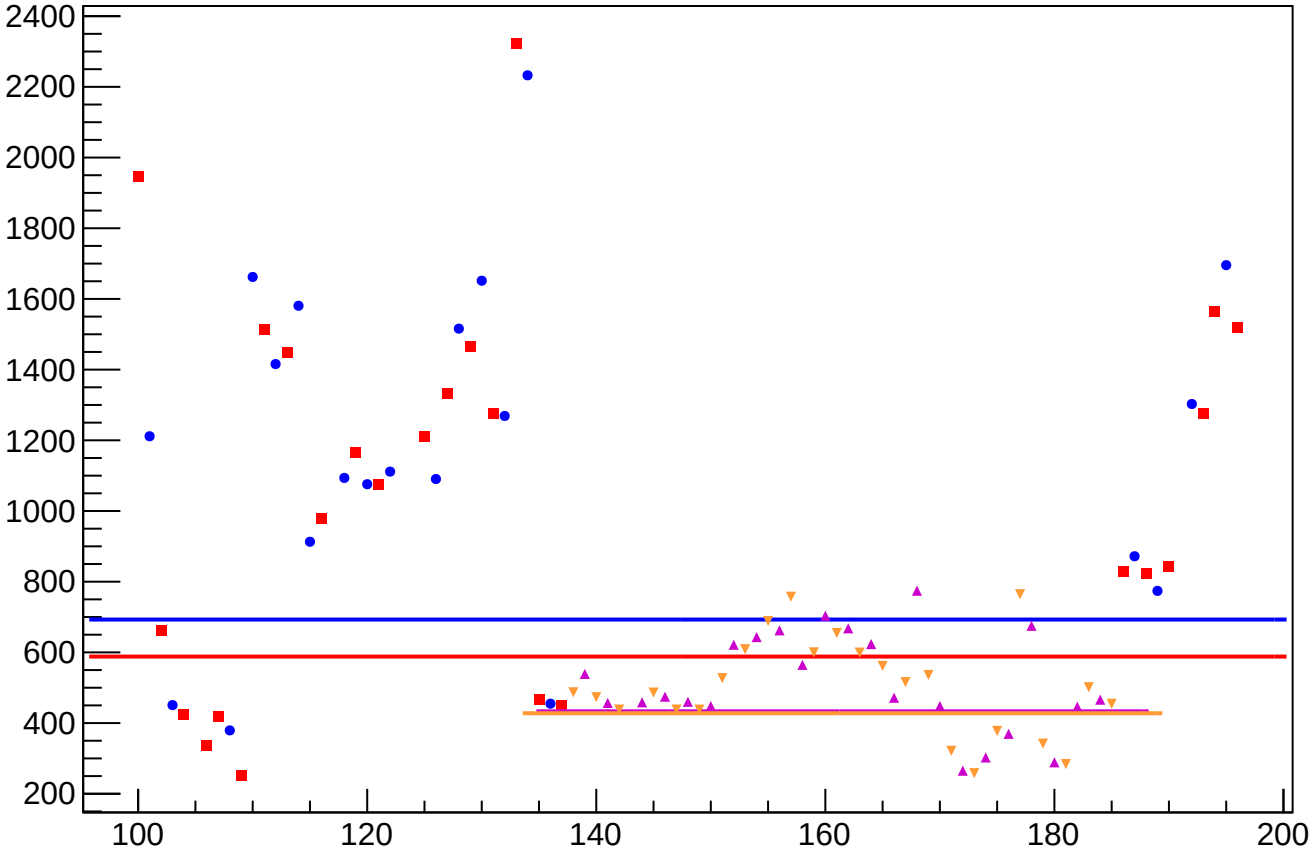
Right: -77.079+/-164.200 $\chi^2$/NDF: 42.1/43

In: -103.537+/-98.771 $\chi^2$/NDF:37.4/42

Out: 21.503+/-94.252 $\chi^2$/NDF:63.4/47

All: -38.091+/-68.188 $\chi^2$/NDF: 101.7/90

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 692.874+/-0.182 $\chi^2$/NDF: 4889336.7/19

Left Out: 427.814+/-0.074 $\chi^2$/NDF:3188159.5/23

Right Out: 588.163+/-0.151 $\chi^2$/NDF: 6641069.5/23

Left In: 433.283+/-0.076 $\chi^2$/NDF:3247998.9/22

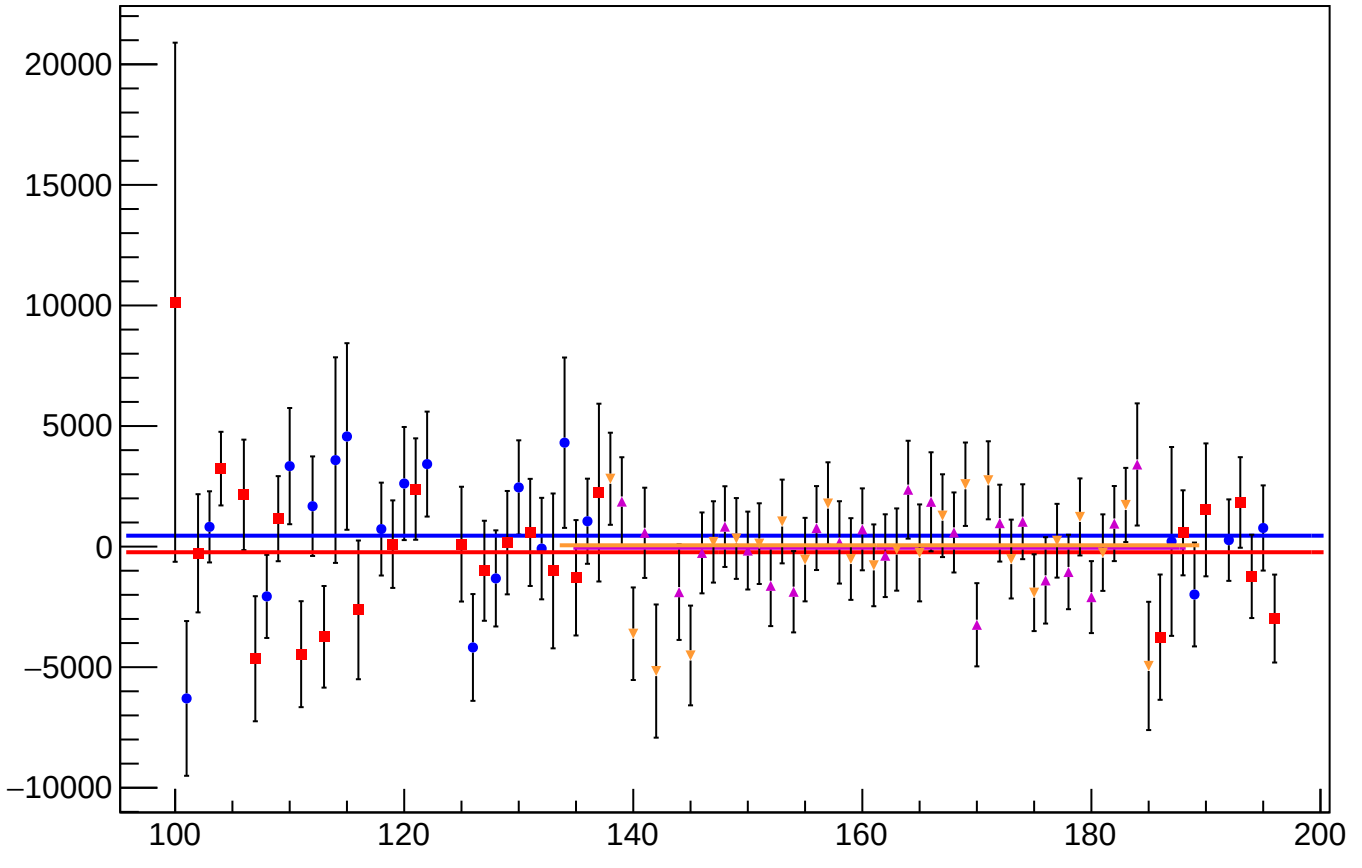
Left: 430.499+/-0.053 $\chi^2$/NDF: 6438819.2/46

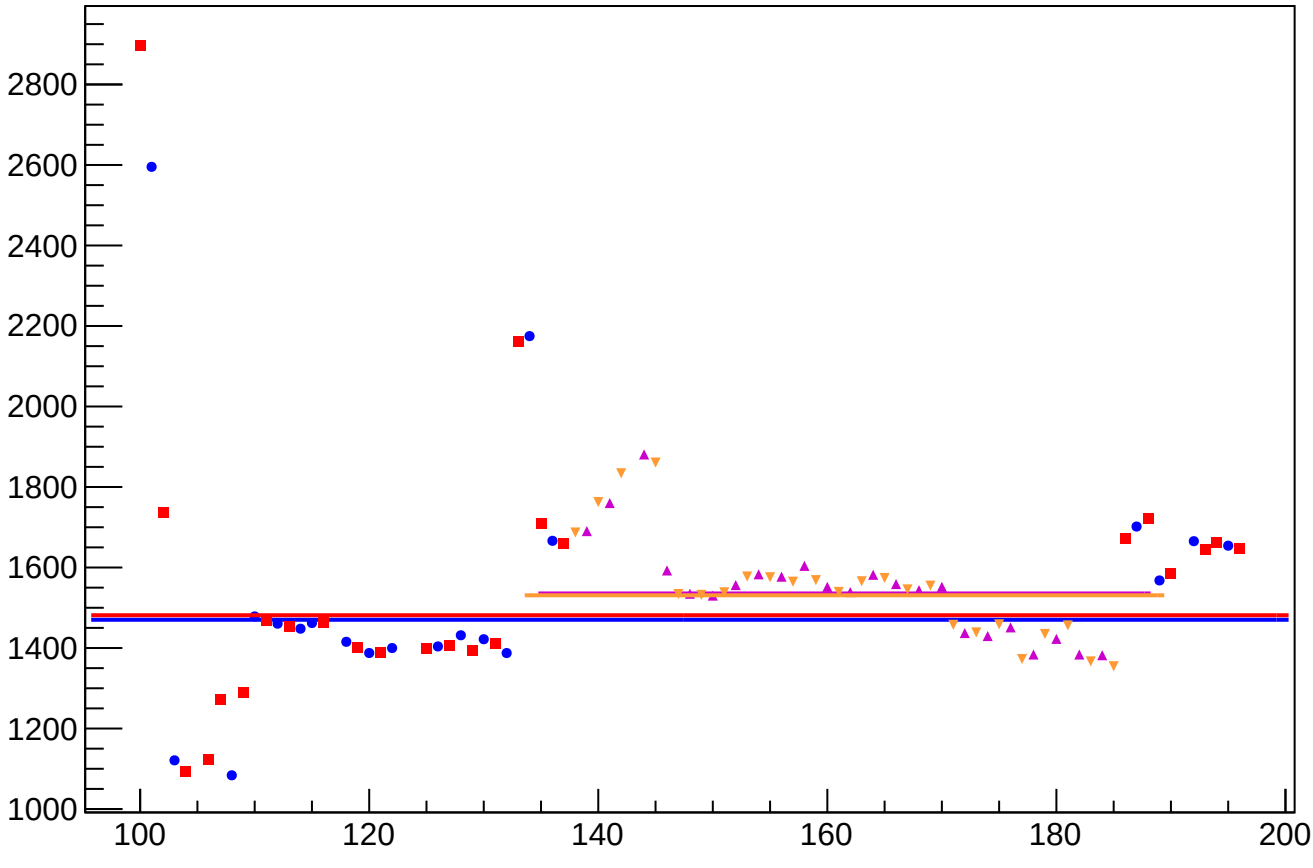
Right: 630.848+/-0.116 $\chi^2$/NDF: 11726803.2/43

In: 471.574+/-0.070 $\chi^2$/NDF:9874510.5/42

Out: 459.109+/-0.067 $\chi^2$/NDF:10738501.7/47

All: 465.050+/-0.048 $\chi^2$/NDF: 20629683.8/90


cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: 453.123+/-477.802 χ²/NDF: 21.7/19
Left Out: 54.734+/-356.375 χ²/NDF:28.5/23
Right Out: -233.244+/-445.305 χ²/NDF: 26.7/23
Left In: -48.256+/-359.531 χ²/NDF:16.8/22
Left: 3.693+/-253.103 χ²/NDF: 45.3/46
Right: 85.806+/-325.761 χ²/NDF: 49.6/43
In: 133.000+/-287.284 χ²/NDF:39.2/42
Out: -57.698+/-278.242 χ²/NDF:55.5/47
All: 34.603+/-199.867 χ²/NDF: 94.9/90




Right In: 1470.205+/-0.338 $\chi^2$/NDF: 635364.9/19

Left Out: 1530.976+/-0.252 $\chi^2$/NDF:203539.7/23

Right Out: 1481.457+/-0.315 $\chi^2$/NDF: 506239.7/23

Left In: 1535.551+/-0.254 $\chi^2$/NDF:192432.7/22

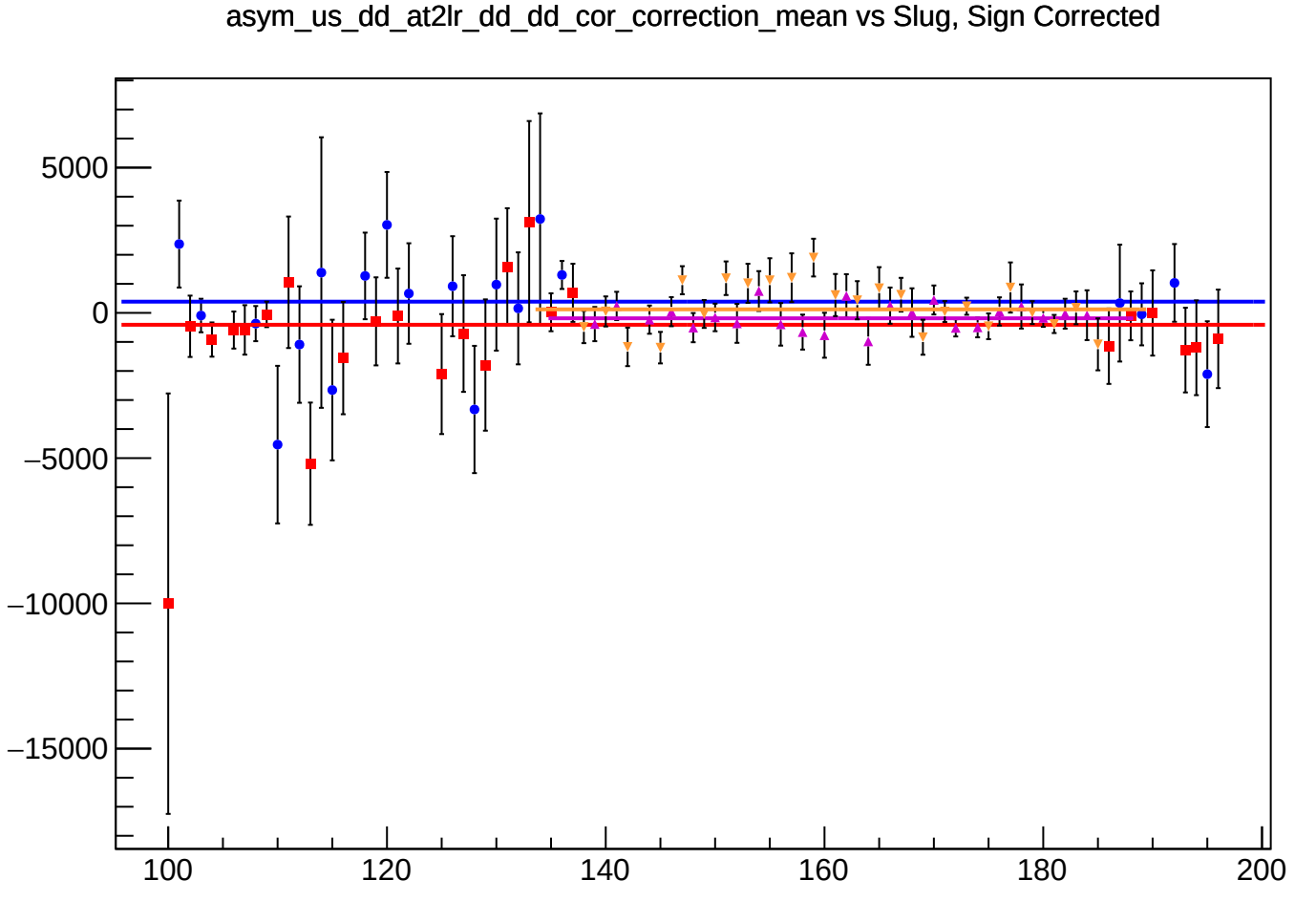
Left: 1533.243+/-0.179 $\chi^2$/NDF: 396135.7/46

Right: 1476.227+/-0.230 $\chi^2$/NDF: 1142198.1/43

In: 1511.927+/-0.203 $\chi^2$/NDF:851682.1/42

Out: 1511.643+/-0.197 $\chi^2$/NDF:724855.5/47

All: 1511.781+/-0.141 $\chi^2$/NDF: 1576538.7/90




Right In: 385.768+/-256.218 $\chi^2$/NDF: 21.5/19

Left Out: 121.325+/-105.060 $\chi^2$/NDF:43.7/23

Right Out: -409.473+/-211.523 $\chi^2$/NDF: 15.2/23

Left In: -187.037+/-106.975 $\chi^2$/NDF:11.6/22

Left: -30.071+/-74.957 $\chi^2$/NDF: 59.5/46

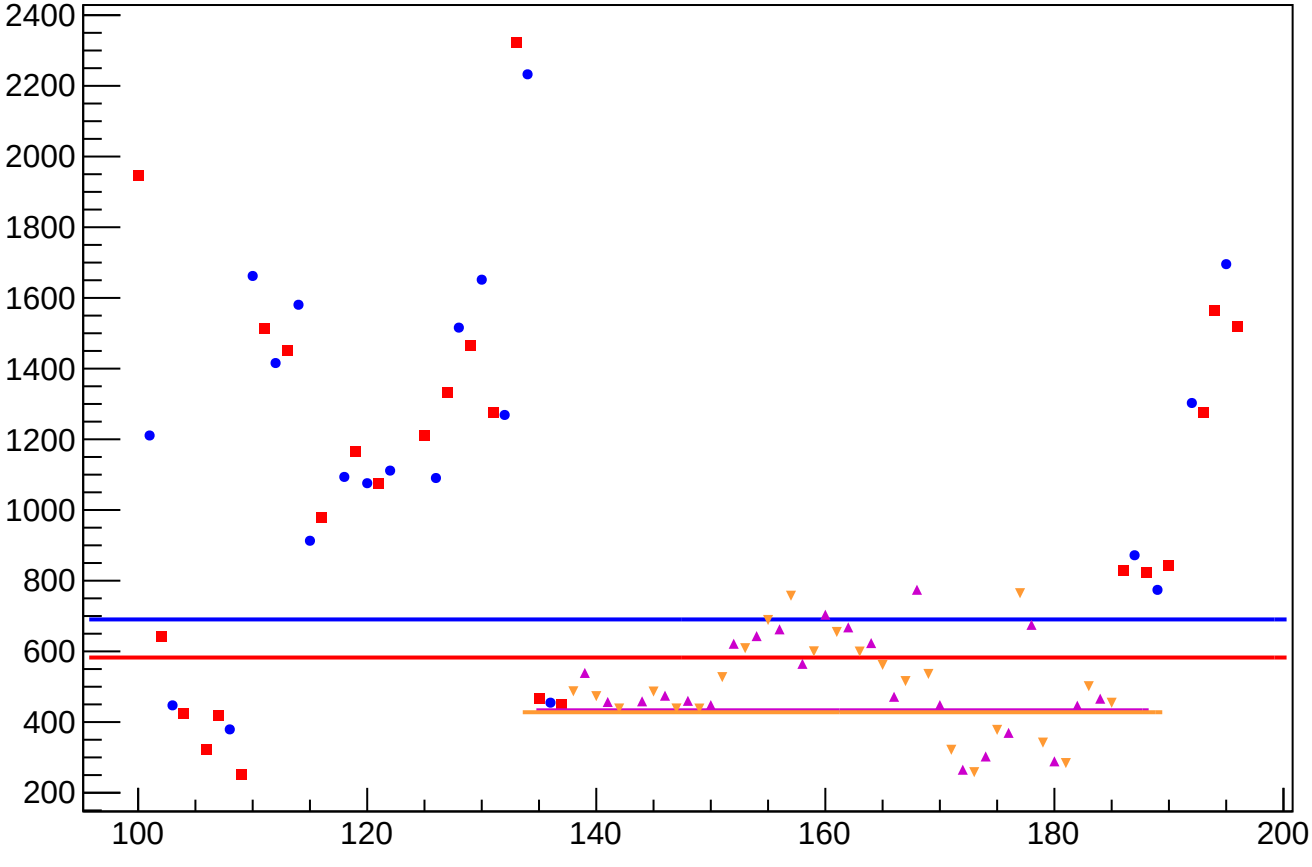
Right: -87.155+/-163.119 $\chi^2$/NDF: 42.5/43

In: -102.008+/-98.717 $\chi^2$/NDF:37.4/42

Out: 16.291+/-94.093 $\chi^2$/NDF:63.9/47

All: -40.023+/-68.110 $\chi^2$/NDF: 102.1/90

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 690.373+/-0.181 $\chi^2$/NDF: 4912478.0/19

Left Out: 427.814+/-0.074 $\chi^2$/NDF:3188396.1/23

Right Out: 582.611+/-0.150 $\chi^2$/NDF: 6706711.2/23

Left In: 433.285+/-0.076 $\chi^2$/NDF:3247871.5/22

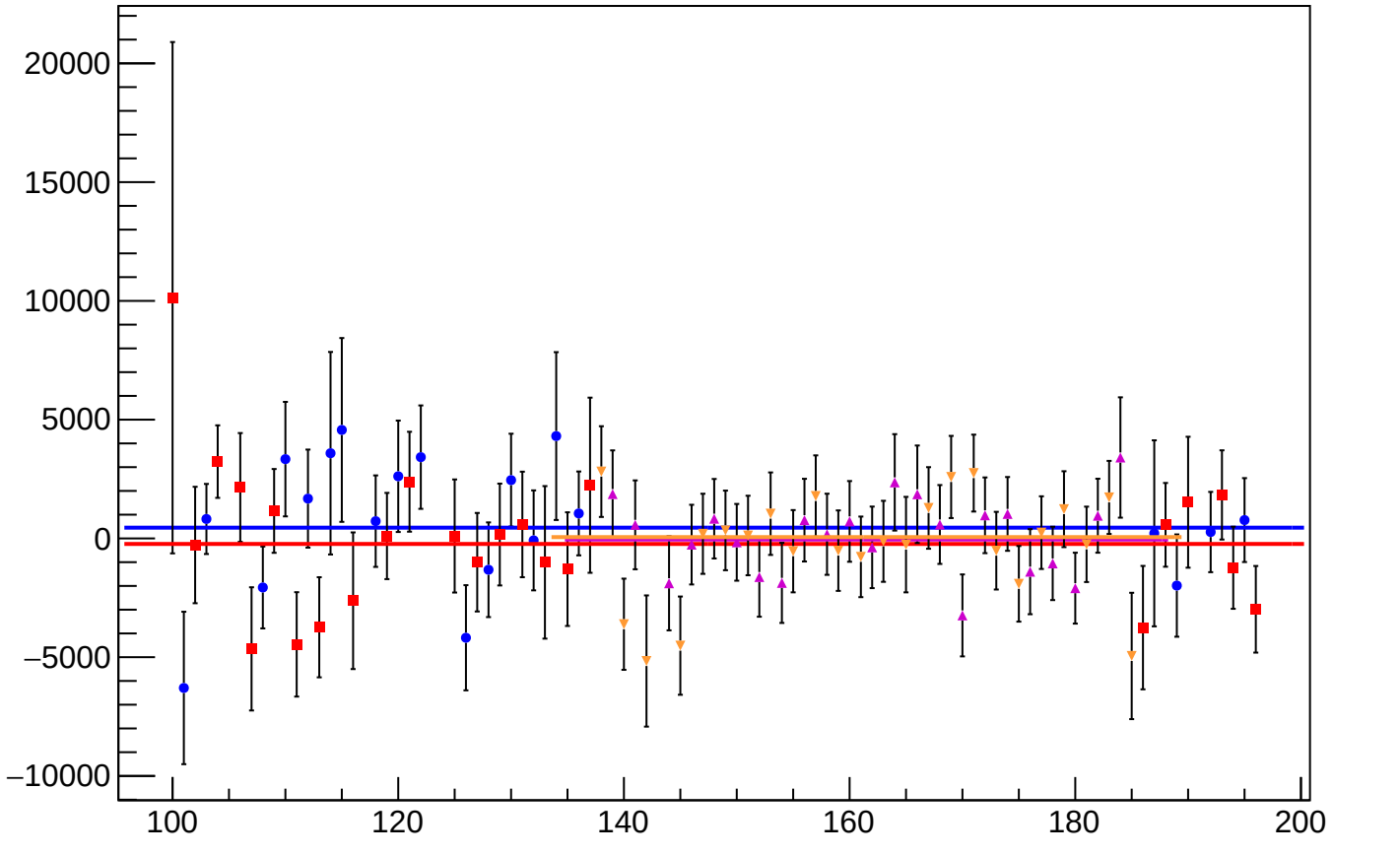
Left: 430.500+/-0.053 $\chi^2$/NDF: 6438930.2/46

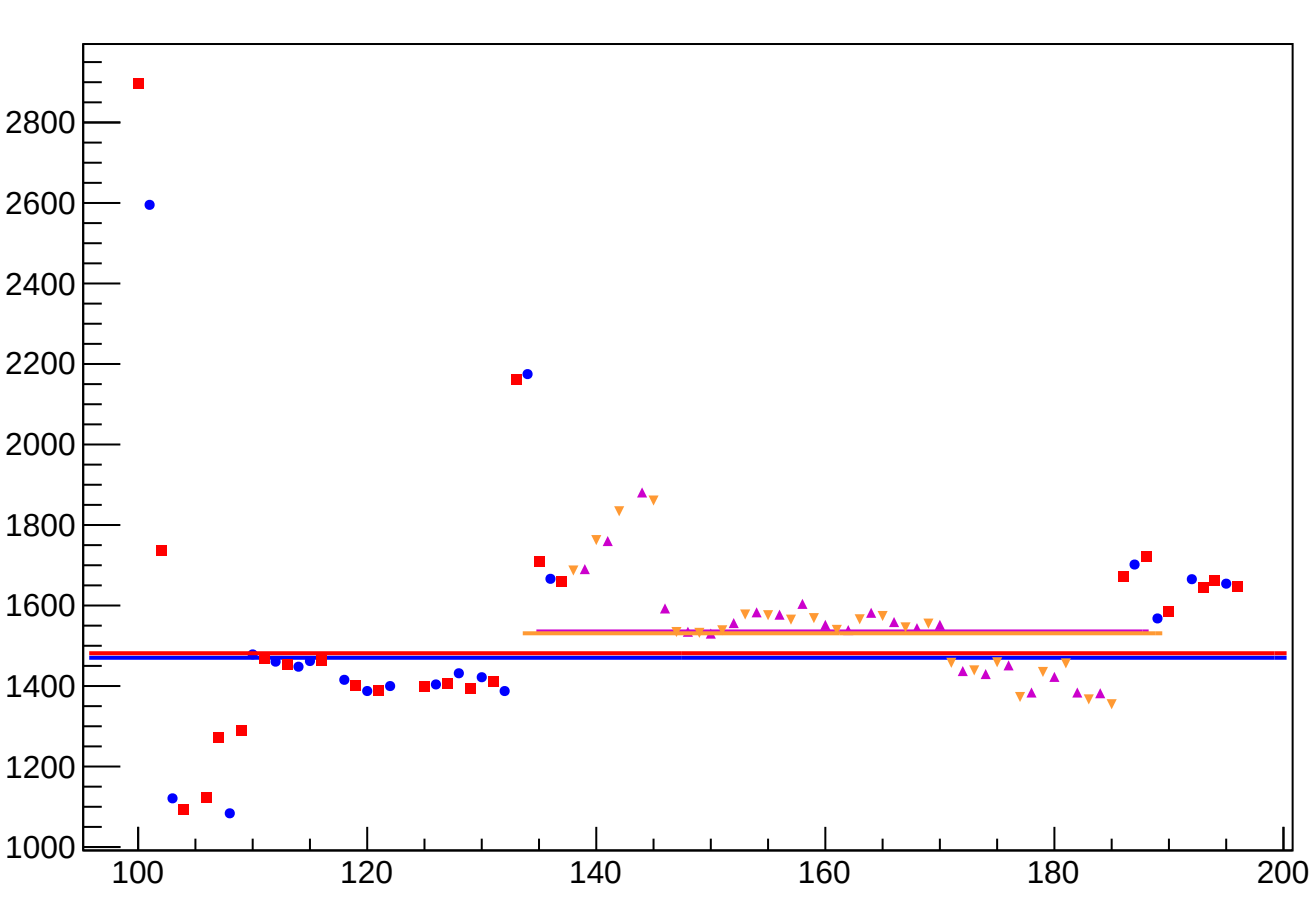
Right: 626.288+/-0.115 $\chi^2$/NDF: 11829584.0/43

In: 471.448+/-0.070 $\chi^2$/NDF:9875050.9/42

Out: 458.445+/-0.067 $\chi^2$/NDF:10754278.8/47

All: 464.635+/-0.048 $\chi^2$/NDF: 20647511.0/90


eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: 453.123+/-477.802 χ²/NDF: 21.7/19
Left Out: 54.734+/-356.375 χ²/NDF:28.5/23
Right Out: -233.244+/-445.305 χ²/NDF: 26.7/23
Left In: -48.256+/-359.531 χ²/NDF:16.8/22
Left: 3.693+/-253.103 χ²/NDF: 45.3/46
Right: 85.806+/-325.761 χ²/NDF: 49.6/43
In: 133.000+/-287.284 χ²/NDF:39.2/42
Out: -57.698+/-278.242 χ²/NDF:55.5/47
All: 34.603+/-199.867 χ²/NDF: 94.9/90




Right In: 1470.205+/-0.338 $\chi^2$/NDF: 635364.9/19

Left Out: 1530.976+/-0.252 $\chi^2$/NDF:203539.7/23

Right Out: 1481.457+/-0.315 $\chi^2$/NDF: 506239.7/23

Left In: 1535.551+/-0.254 $\chi^2$/NDF:192432.7/22

Left: 1533.243+/-0.179 $\chi^2$/NDF: 396135.7/46

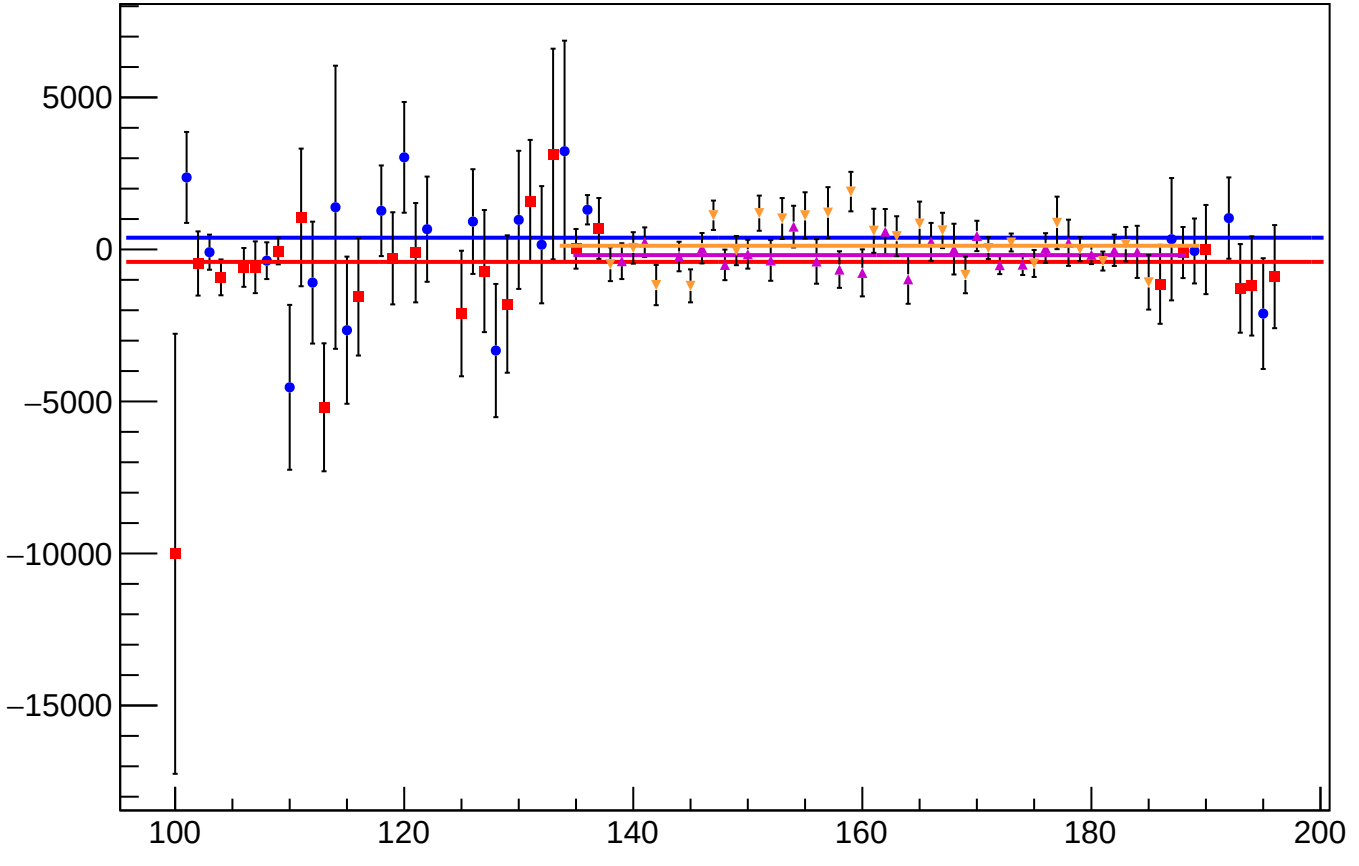
Right: 1476.227+/-0.230 $\chi^2$/NDF: 1142198.1/43

In: 1511.927+/-0.203 $\chi^2$/NDF:851682.1/42

Out: 1511.643+/-0.197 $\chi^2$/NDF:724855.5/47

All: 1511.781+/-0.141 $\chi^2$/NDF: 1576538.7/90

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 385.768+/-256.218 $\chi^2$/NDF: 21.5/19

Left Out: 121.325+/-105.060 $\chi^2$/NDF:43.7/23

Right Out: -409.473+/-211.523 $\chi^2$/NDF: 15.2/23

Left In: -187.037+/-106.975 $\chi^2$/NDF:11.6/22

Left: -30.071+/-74.957 $\chi^2$/NDF: 59.5/46

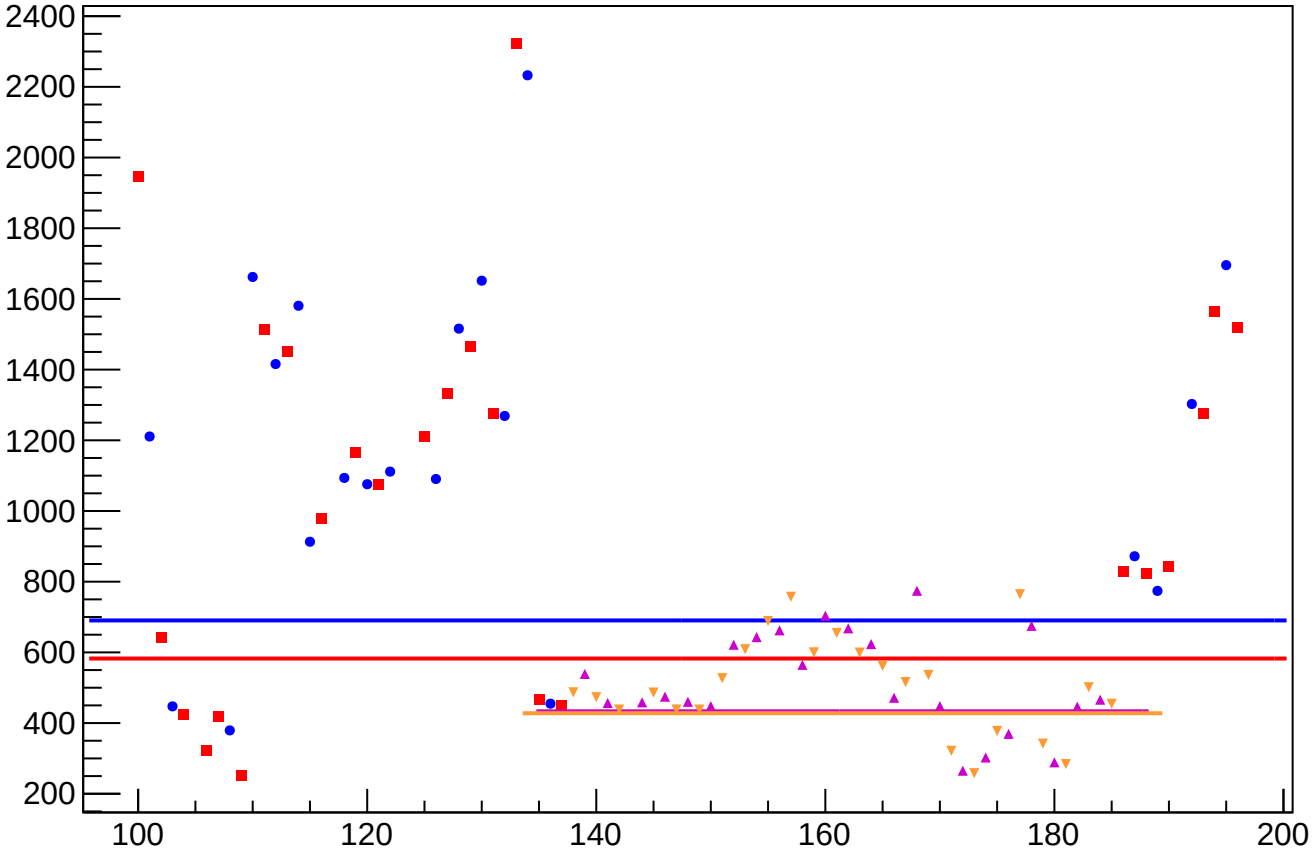
Right: -87.155+/-163.119 $\chi^2$/NDF: 42.5/43

In: -102.008+/-98.717 $\chi^2$/NDF:37.4/42

Out: 16.291+/-94.093 $\chi^2$/NDF:63.9/47

All: -40.023+/-68.110 $\chi^2$/NDF: 102.1/90

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 690.373+/-0.181 $\chi^2$/NDF: 4912478.0/19

Left Out: 427.814+/-0.074 $\chi^2$/NDF:3188396.1/23

Right Out: 582.611+/-0.150 $\chi^2$/NDF: 6706711.2/23

Left In: 433.285+/-0.076 $\chi^2$/NDF:3247871.5/22

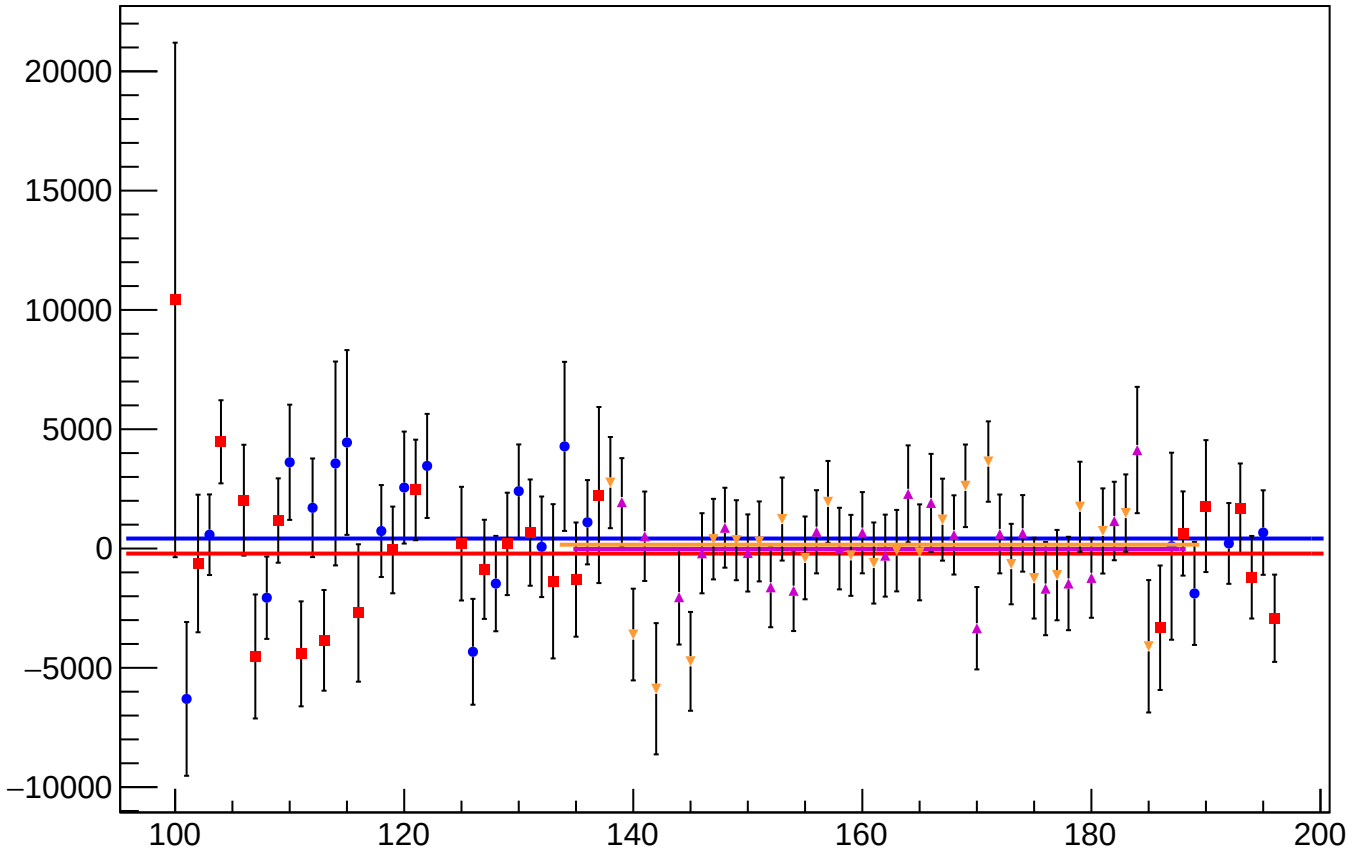
Left: 430.500+/-0.053 $\chi^2$/NDF: 6438930.2/46

Right: 626.288+/-0.115 $\chi^2$/NDF: 11829584.0/43

In: 471.448+/-0.070 $\chi^2$/NDF:9875050.9/42

Out: 458.445+/-0.067 $\chi^2$/NDF:10754278.8/47

All: 464.635+/-0.048 $\chi^2$/NDF: 20647511.0/90




Right In: 418.857+/-484.617 $\chi^2$/NDF: 22.0/19

Left Out: 161.591+/-368.366 $\chi^2$/NDF:29.9/23

Right Out: -211.673+/-452.806 $\chi^2$/NDF: 28.3/23

Left In: -20.252+/-369.781 $\chi^2$/NDF:16.0/22

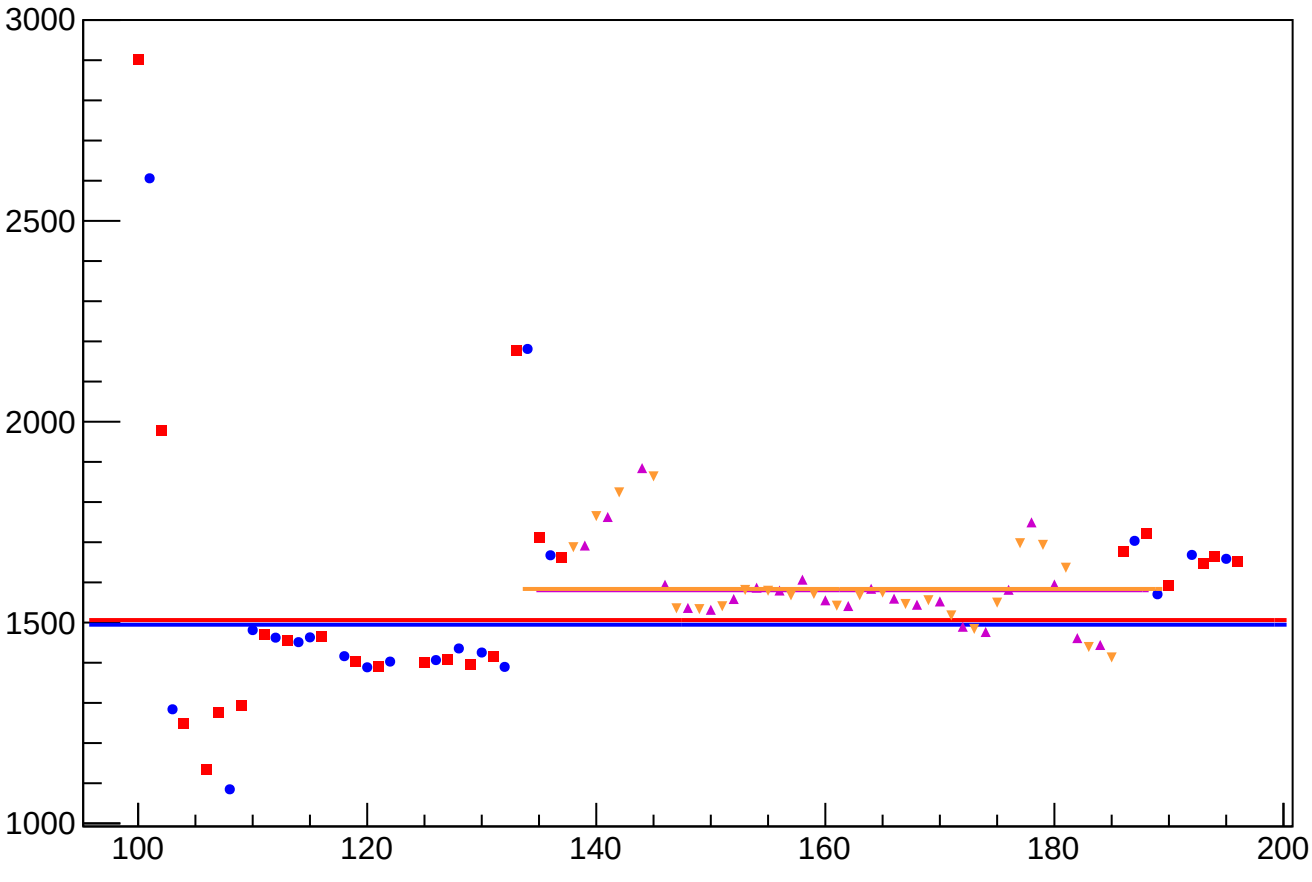
Left: 71.018+/-260.973 $\chi^2$/NDF: 46.0/46

Right: 82.219+/-330.857 $\chi^2$/NDF: 51.3/43

In: 141.331+/-293.975 $\chi^2$/NDF:38.5/42

Out: 12.940+/-285.751 $\chi^2$/NDF:58.6/47

All: 75.314+/-204.902 $\chi^2$/NDF: 97.3/90




Right In: 1494.709+/-0.343 $\chi^2$/NDF: 546498.7/19

Left Out: 1583.673+/-0.260 $\chi^2$/NDF:133583.1/23

Right Out: 1506.240+/-0.320 $\chi^2$/NDF: 444499.4/23

Left In: 1580.464+/-0.261 $\chi^2$/NDF:125745.6/22

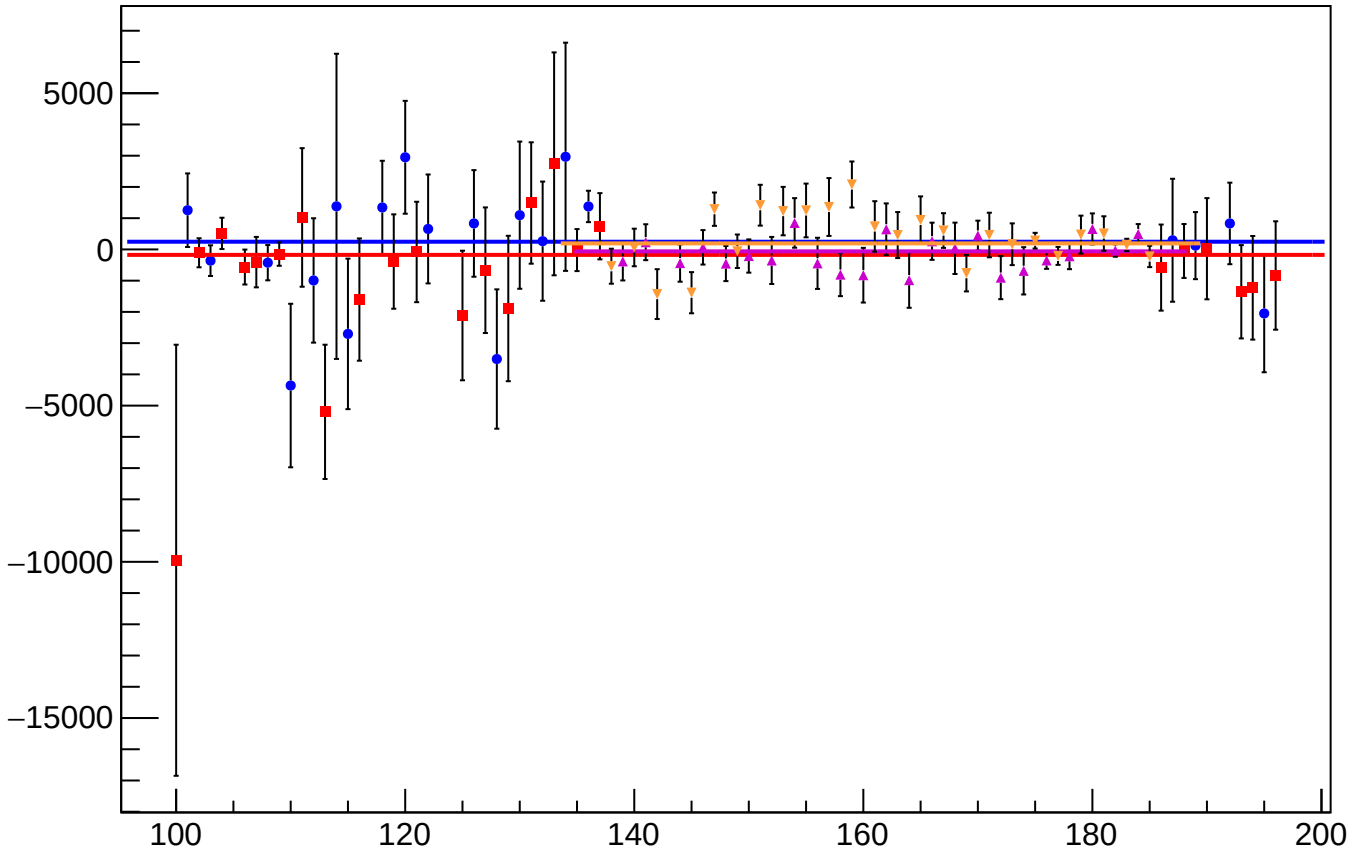
Left: 1582.075+/-0.185 $\chi^2$/NDF: 259404.3/46

Right: 1500.865+/-0.234 $\chi^2$/NDF: 991602.7/43

In: 1548.908+/-0.208 $\chi^2$/NDF:711825.4/42

Out: 1552.836+/-0.202 $\chi^2$/NDF:613277.3/47

All: 1550.928+/-0.145 $\chi^2$/NDF: 1325286.2/90




Right In: 246.269+/-244.510 $\chi^2$/NDF: 21.9/19

Left Out: 193.307+/-95.894 $\chi^2$/NDF:40.1/23

Right Out: -174.913+/-184.288 $\chi^2$/NDF: 15.8/23

Left In: -62.183+/-99.717 $\chi^2$/NDF:17.0/22

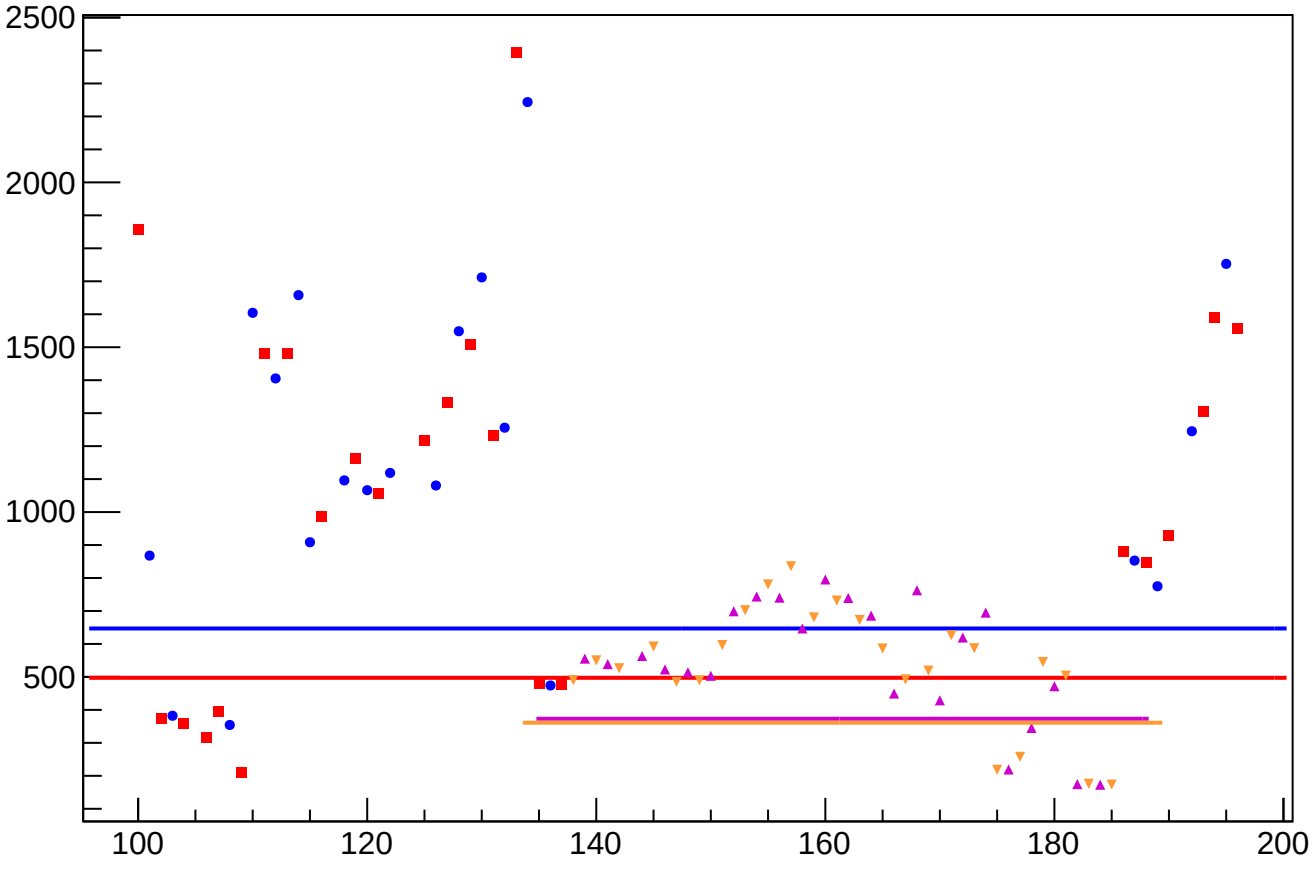
Left: 70.554+/-69.119 $\chi^2$/NDF: 60.5/46

Right: -22.330+/-147.169 $\chi^2$/NDF: 39.6/43

In: -18.197+/-92.334 $\chi^2$/NDF:40.3/42

Out: 114.851+/-85.066 $\chi^2$/NDF:59.0/47

All: 53.768+/-62.563 $\chi^2$/NDF: 100.4/90




Right In: 646.915+/-0.173 $\chi^2$/NDF: 5139223.3/19

Left Out: 361.100+/-0.068 $\chi^2$/NDF:8183123.9/23

Right Out: 497.323+/-0.130 $\chi^2$/NDF: 7969564.1/23

Left In: 373.140+/-0.071 $\chi^2$/NDF:8207354.5/22

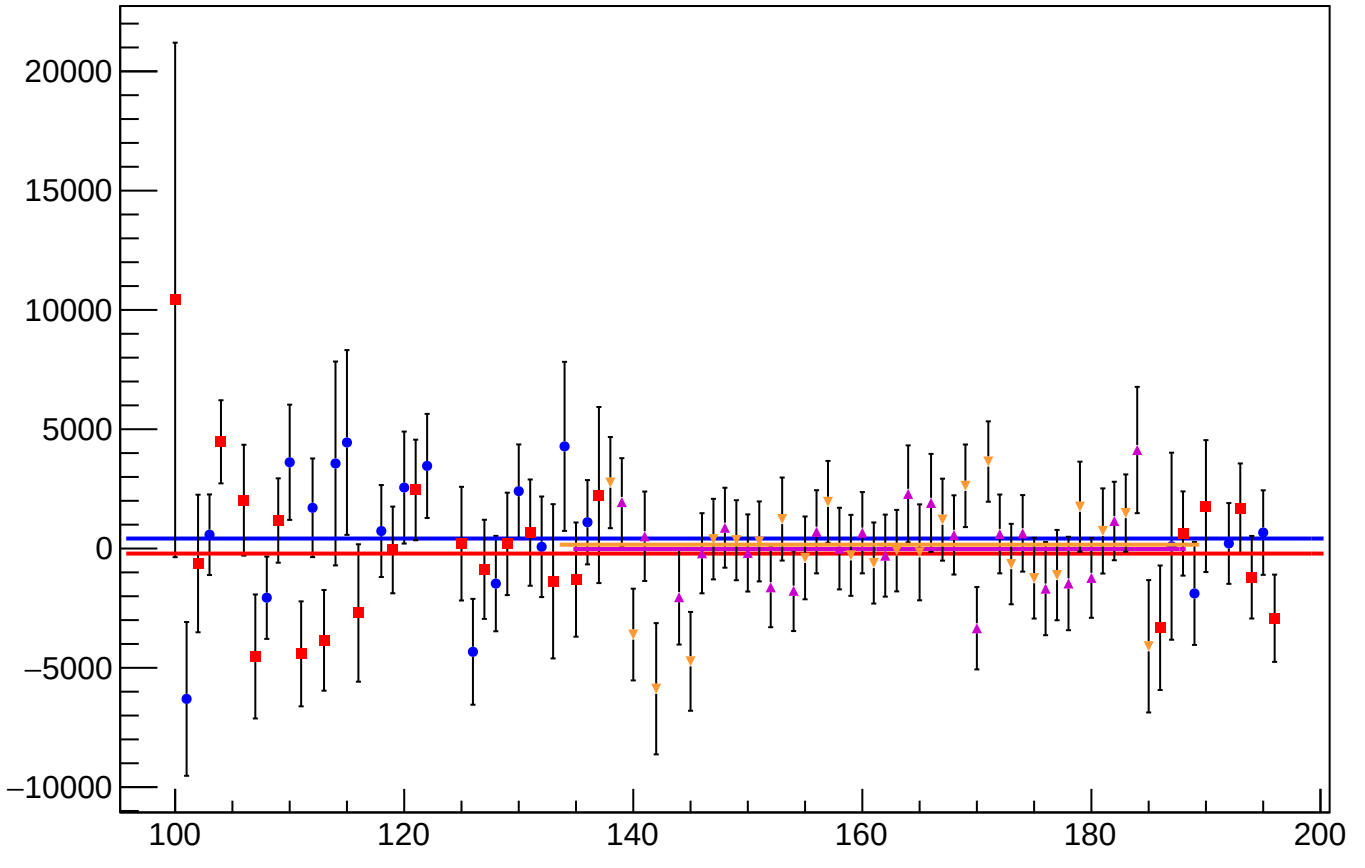
Left: 366.885+/-0.049 $\chi^2$/NDF: 16405627.7/46

Right: 551.516+/-0.104 $\chi^2$/NDF: 13586194.8/43

In: 412.181+/-0.065 $\chi^2$/NDF:15496413.8/42

Out: 390.125+/-0.060 $\chi^2$/NDF:17012637.9/47

All: 400.251+/-0.044 $\chi^2$/NDF: 32570781.7/90




Right In: 418.859+/-484.617 $\chi^2$/NDF: 22.0/19

Left Out: 161.587+/-368.366 $\chi^2$/NDF:29.9/23

Right Out: -211.673+/-452.806 $\chi^2$/NDF: 28.3/23

Left In: -20.250+/-369.781 $\chi^2$/NDF:16.0/22

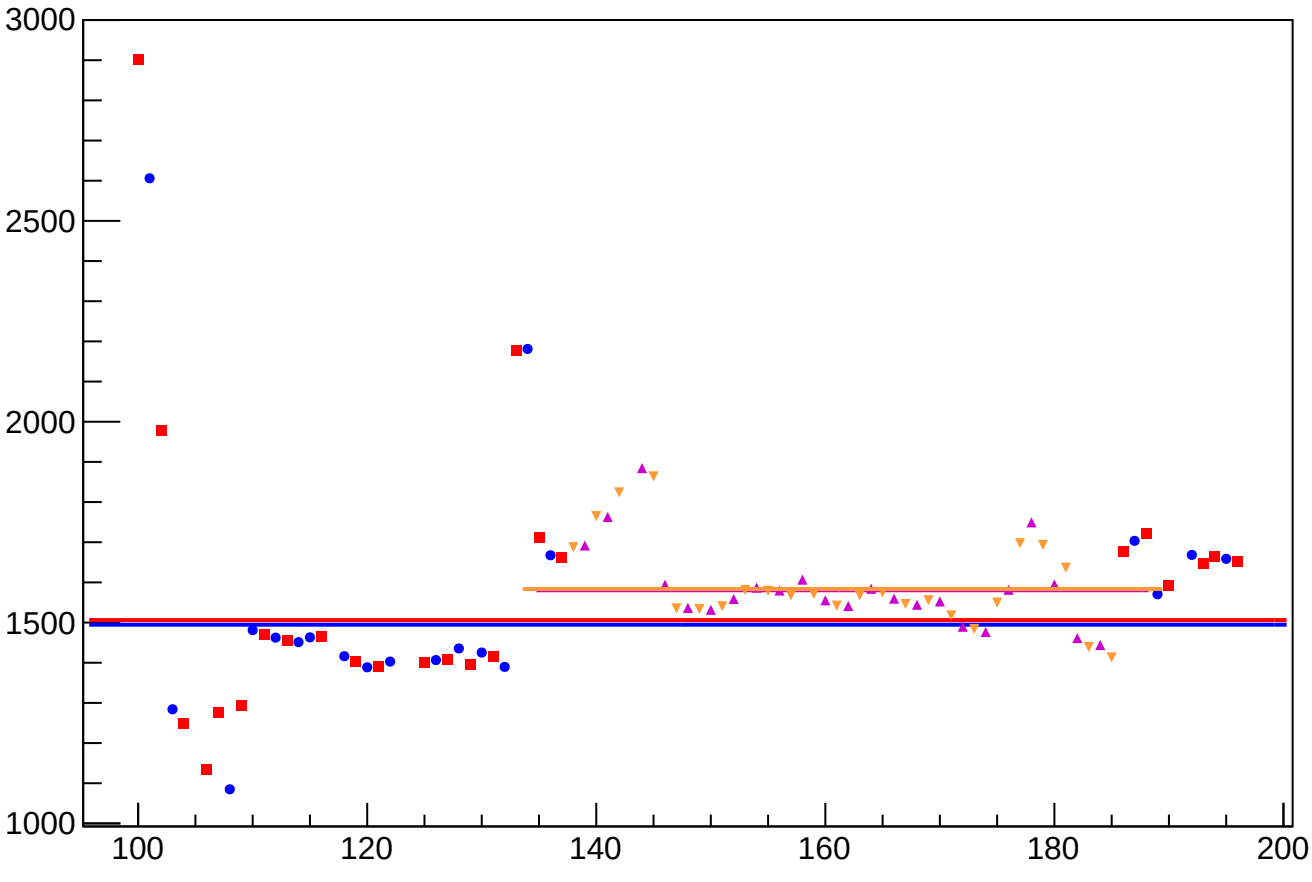
Left: 71.017+/-260.973 $\chi^2$/NDF: 46.0/46

Right: 82.220+/-330.857 $\chi^2$/NDF: 51.3/43

In: 141.332+/-293.975 $\chi^2$/NDF:38.5/42

Out: 12.937+/-285.751 $\chi^2$/NDF:58.6/47

All: 75.314+/-204.902 $\chi^2$/NDF: 97.3/90




Right In: 1494.709+/-0.343 $\chi^2$/NDF: 546498.3/19

Left Out: 1583.673+/-0.260 $\chi^2$/NDF:133583.3/23

Right Out: 1506.240+/-0.320 $\chi^2$/NDF: 444499.6/23

Left In: 1580.464+/-0.261 $\chi^2$/NDF:125745.6/22

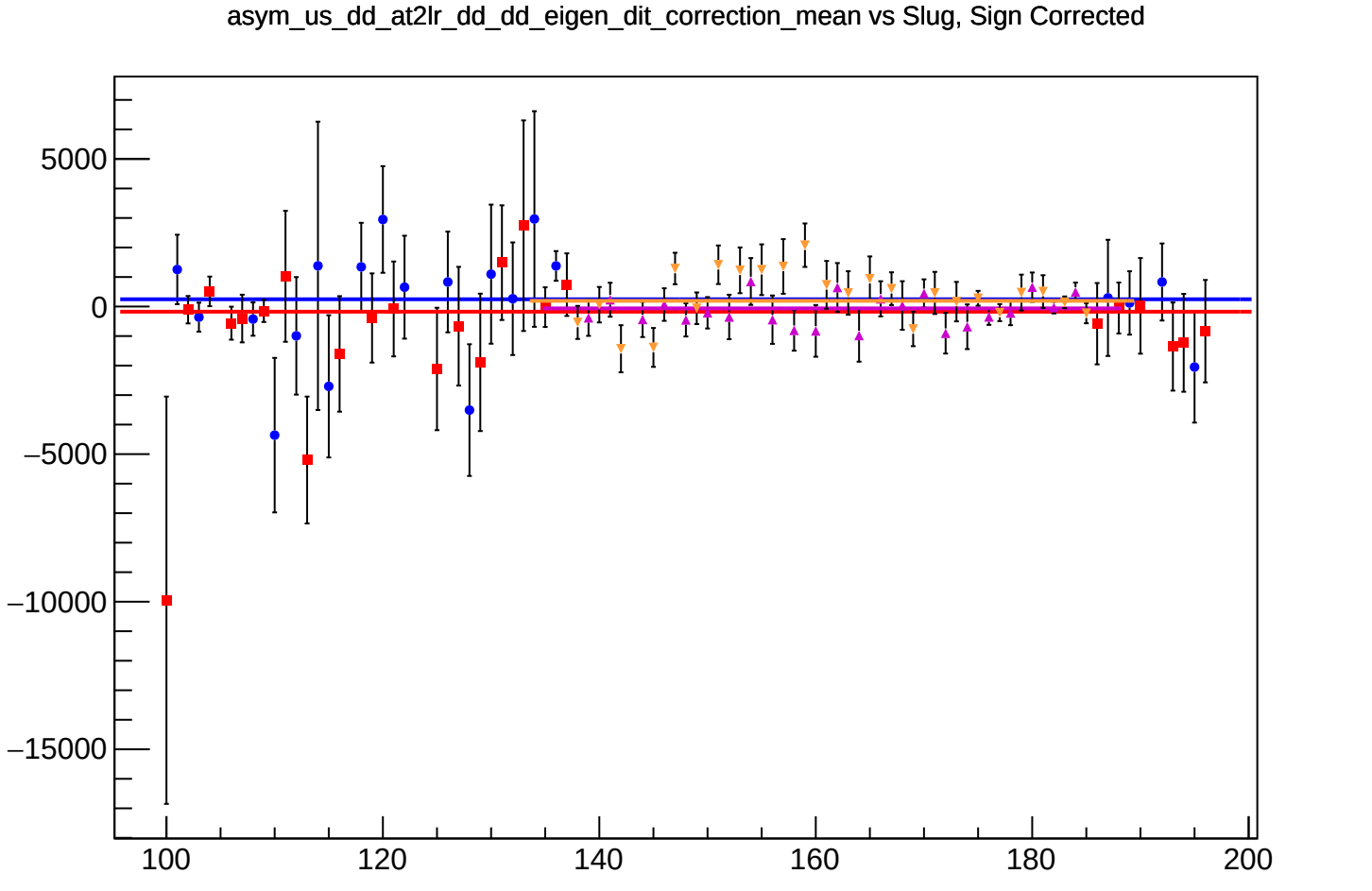
Left: 1582.075+/-0.185 $\chi^2$/NDF: 259404.5/46

Right: 1500.865+/-0.234 $\chi^2$/NDF: 991602.4/43

In: 1548.908+/-0.208 $\chi^2$/NDF:711824.6/42

Out: 1552.835+/-0.202 $\chi^2$/NDF:613277.5/47

All: 1550.927+/-0.145 $\chi^2$/NDF: 1325285.7/90




Right In: 246.263+/-244.510 $\chi^2$/NDF: 21.9/19

Left Out: 193.312+/-95.894 $\chi^2$/NDF:40.1/23

Right Out: -174.910+/-184.290 $\chi^2$/NDF: 15.8/23

Left In: -62.181+/-99.718 $\chi^2$/NDF:17.0/22

Left: 70.558+/-69.120 $\chi^2$/NDF: 60.5/46

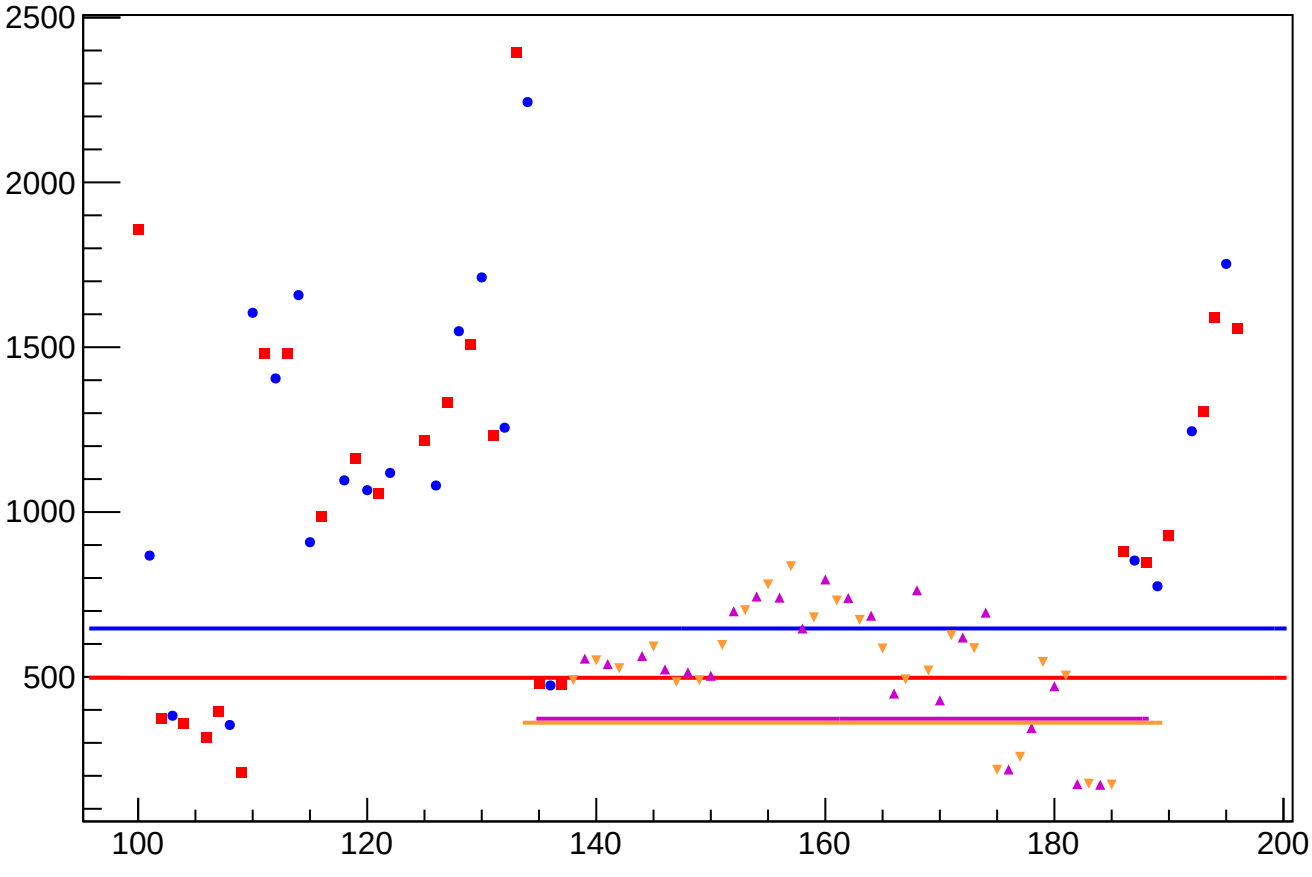
Right: -22.329+/-147.169 $\chi^2$/NDF: 39.6/43

In: -18.195+/-92.334 $\chi^2$/NDF:40.3/42

Out: 114.855+/-85.067 $\chi^2$/NDF:59.0/47

All: 53.772+/-62.563 $\chi^2$/NDF: 100.4/90

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 646.914+/-0.173 $\chi^2$/NDF: 5139250.3/19

Left Out: 361.103+/-0.068 $\chi^2$/NDF:8182968.2/23

Right Out: 497.329+/-0.130 $\chi^2$/NDF: 7969449.5/23

Left In: 373.145+/-0.071 $\chi^2$/NDF:8207110.6/22

Left: 366.889+/-0.049 $\chi^2$/NDF: 16405230.8/46

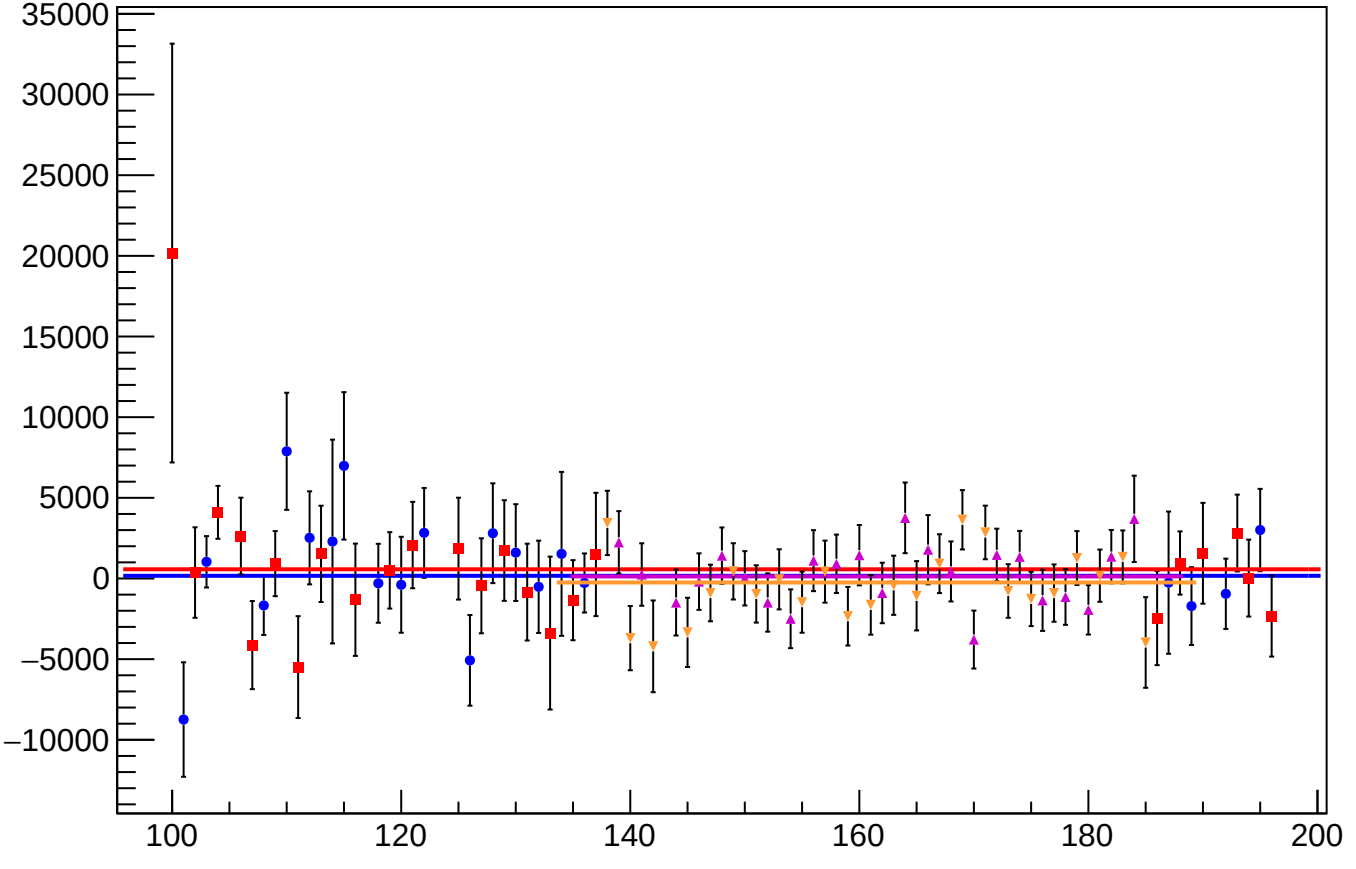
Right: 551.520+/-0.104 $\chi^2$/NDF: 13586055.5/43

In: 412.186+/-0.065 $\chi^2$/NDF:15496097.3/42

Out: 390.129+/-0.060 $\chi^2$/NDF:17012387.2/47

All: 400.255+/-0.044 $\chi^2$/NDF: 32570215.9/90

# asym_us_dd_at2lr_dd_dd_mean vs Slug, Sign Corrected




Right In: 166.842+/-593.299 $\chi^2$/NDF: 22.9/19

Left Out: -247.110+/-378.224 $\chi^2$/NDF:26.0/23

Right Out: 570.360+/-544.662 $\chi^2$/NDF: 20.6/23

Left In: 126.114+/-381.305 $\chi^2$/NDF:21.2/22

Left: -62.012+/-268.528 $\chi^2$/NDF: 47.7/46

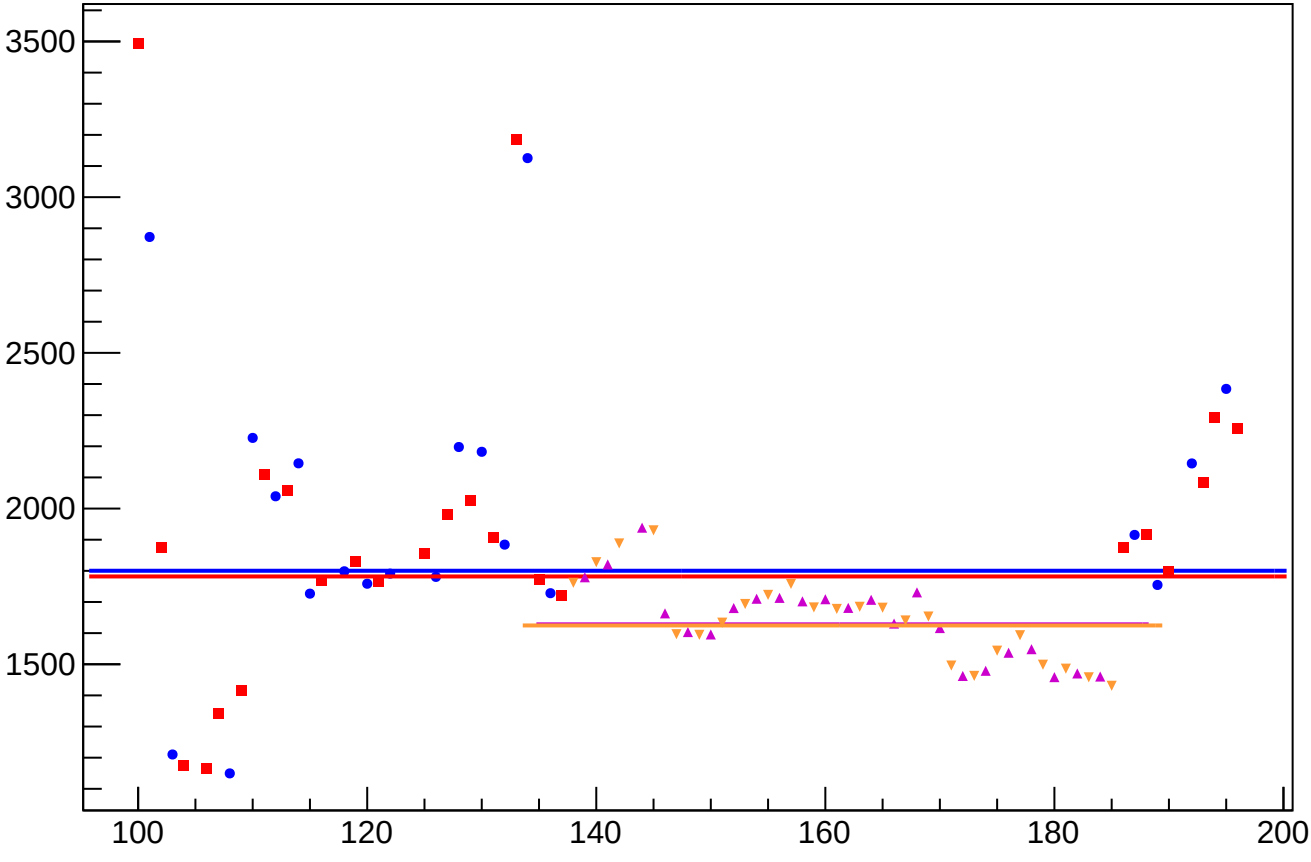
Right: 385.816+/-401.228 $\chi^2$/NDF: 43.7/43

In: 138.019+/-320.771 $\chi^2$/NDF:44.1/42

Out: 18.843+/-310.665 $\chi^2$/NDF:48.1/47

All: 76.524+/-223.161 $\chi^2$/NDF: 92.3/90

# asym_us_dd_at2lr_dd_dd_rms vs Slug, Sign Corrected




Right In: 1800.278+/-0.420 $\chi^2$/NDF: 1121940.3/19

Left Out: 1624.614+/-0.267 $\chi^2$/NDF:207257.7/23

Right Out: 1781.988+/-0.385 $\chi^2$/NDF: 1011069.3/23

Left In: 1628.221+/-0.270 $\chi^2$/NDF:204880.6/22

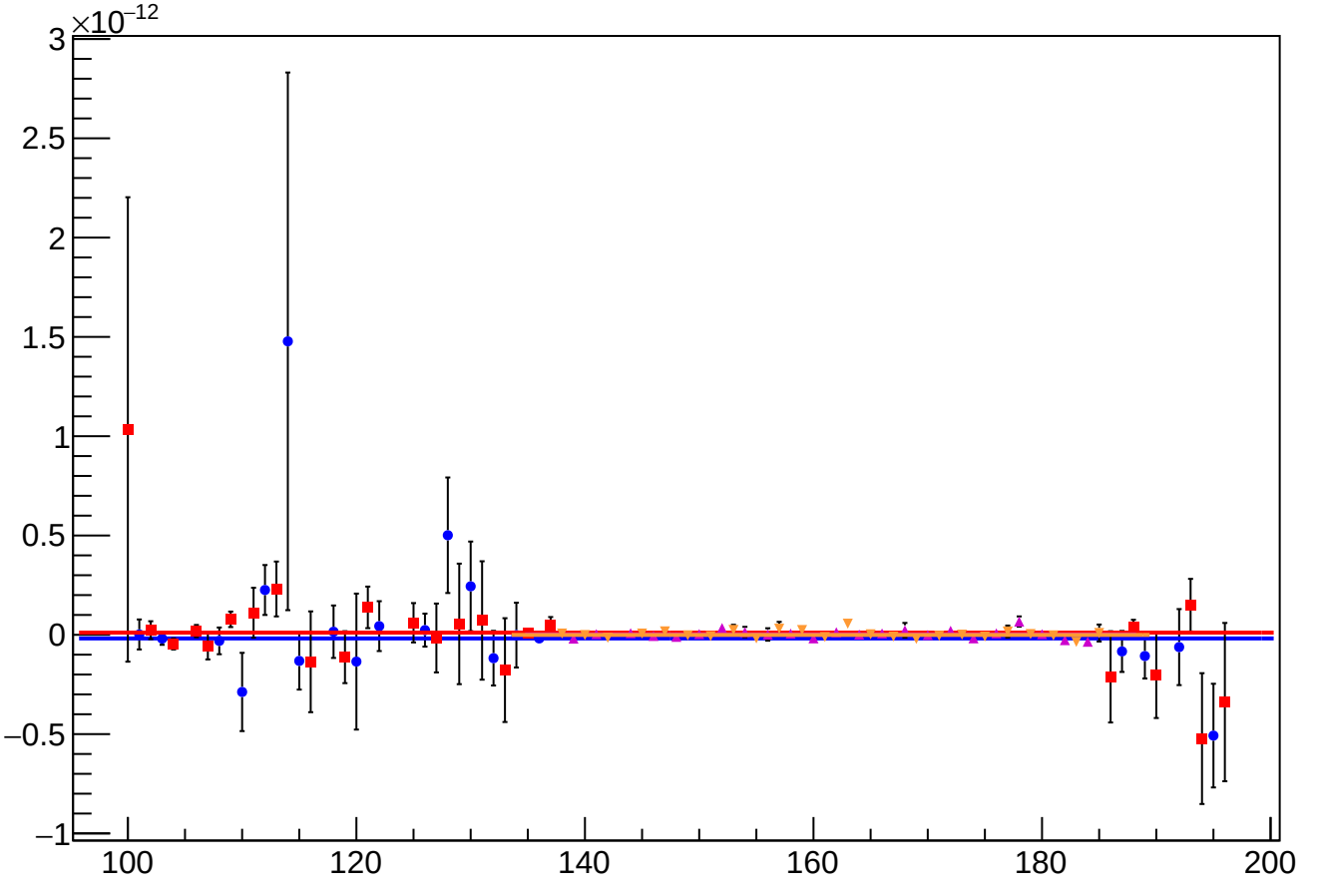
Left: 1626.403+/-0.190 $\chi^2$/NDF: 412228.5/46

Right: 1790.353+/-0.284 $\chi^2$/NDF: 2134041.1/43

In: 1678.515+/-0.227 $\chi^2$/NDF:1445855.5/42

Out: 1675.814+/-0.220 $\chi^2$/NDF:1330976.0/47

All: 1677.121+/-0.158 $\chi^2$/NDF: 2776904.8/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.2/22

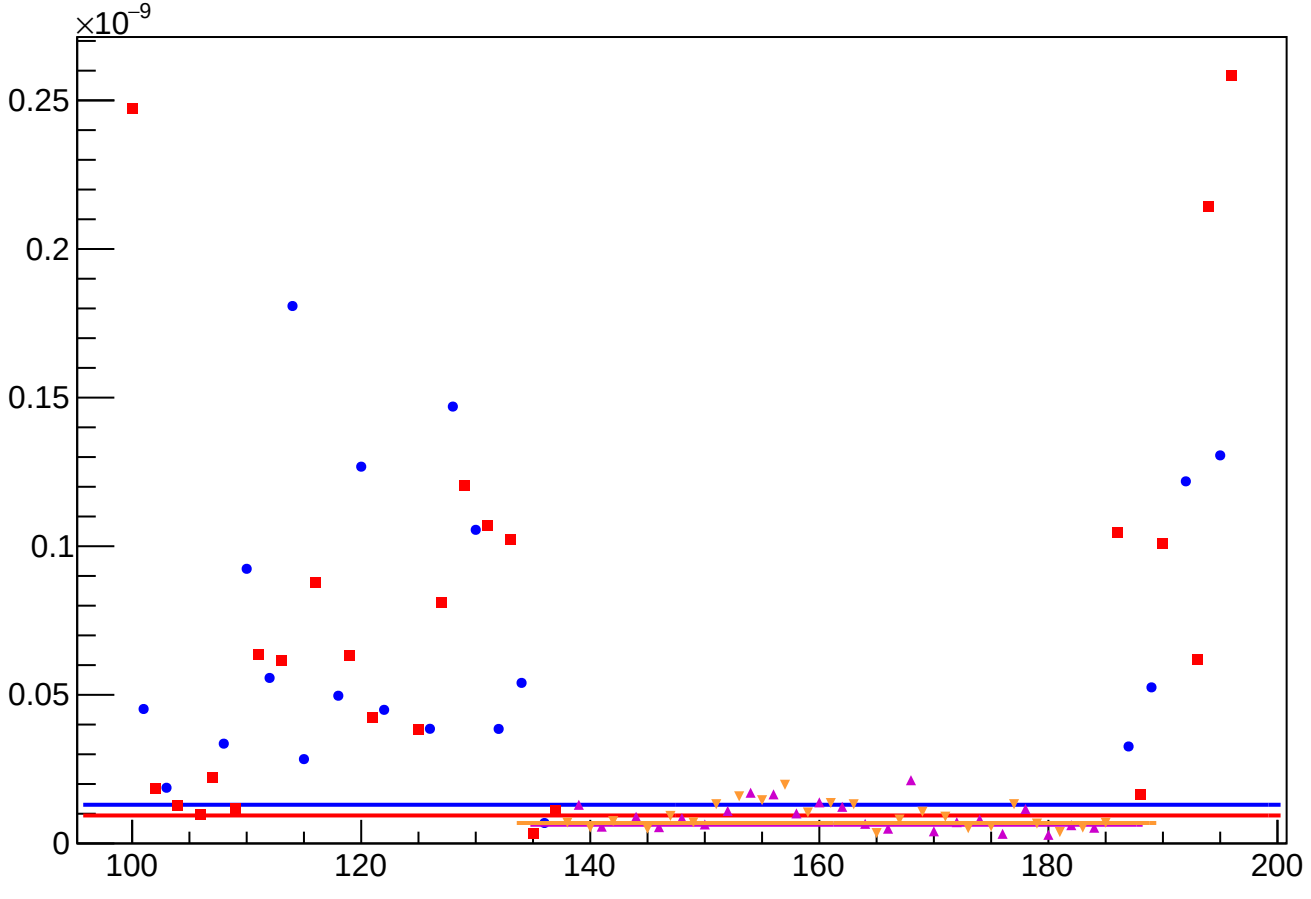
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.2/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.3/43

In: 0.000+/-0.000 $\chi^2$/NDF:45.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:47.7/47

All: 0.000+/-0.000 $\chi^2$/NDF: 93.5/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4813183.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2256547.8/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6191193.6/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2888385.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5189150.7/46

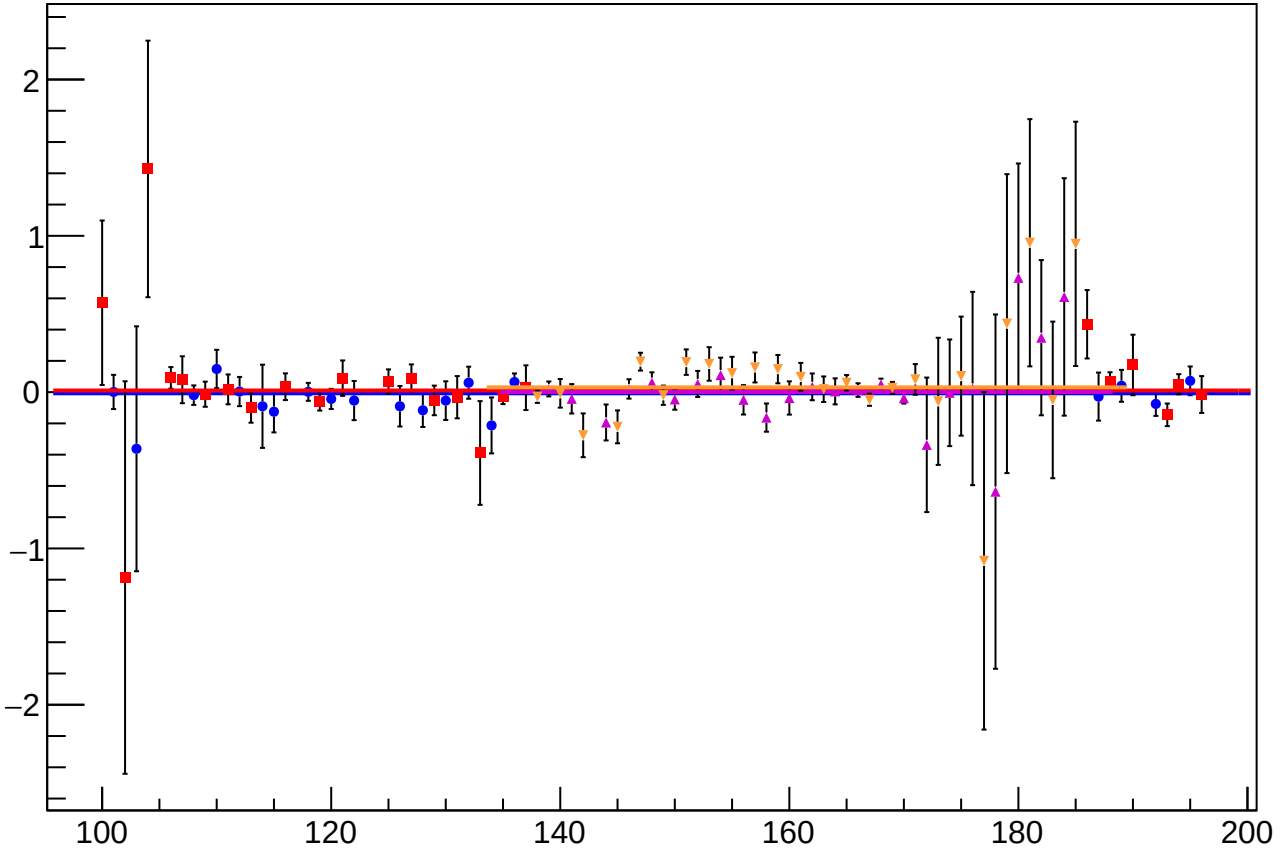
Right: 0.000+/-0.000 $\chi^2$/NDF: 11153733.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:8521495.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8608530.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 17152586.0/90

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.021 $\chi^2$/NDF: 10.1/19

Left Out: 0.031+/-0.015 $\chi^2$/NDF:41.5/23

Right Out: 0.010+/-0.019 $\chi^2$/NDF: 24.1/23

Left In: 0.001+/-0.015 $\chi^2$/NDF:16.0/22

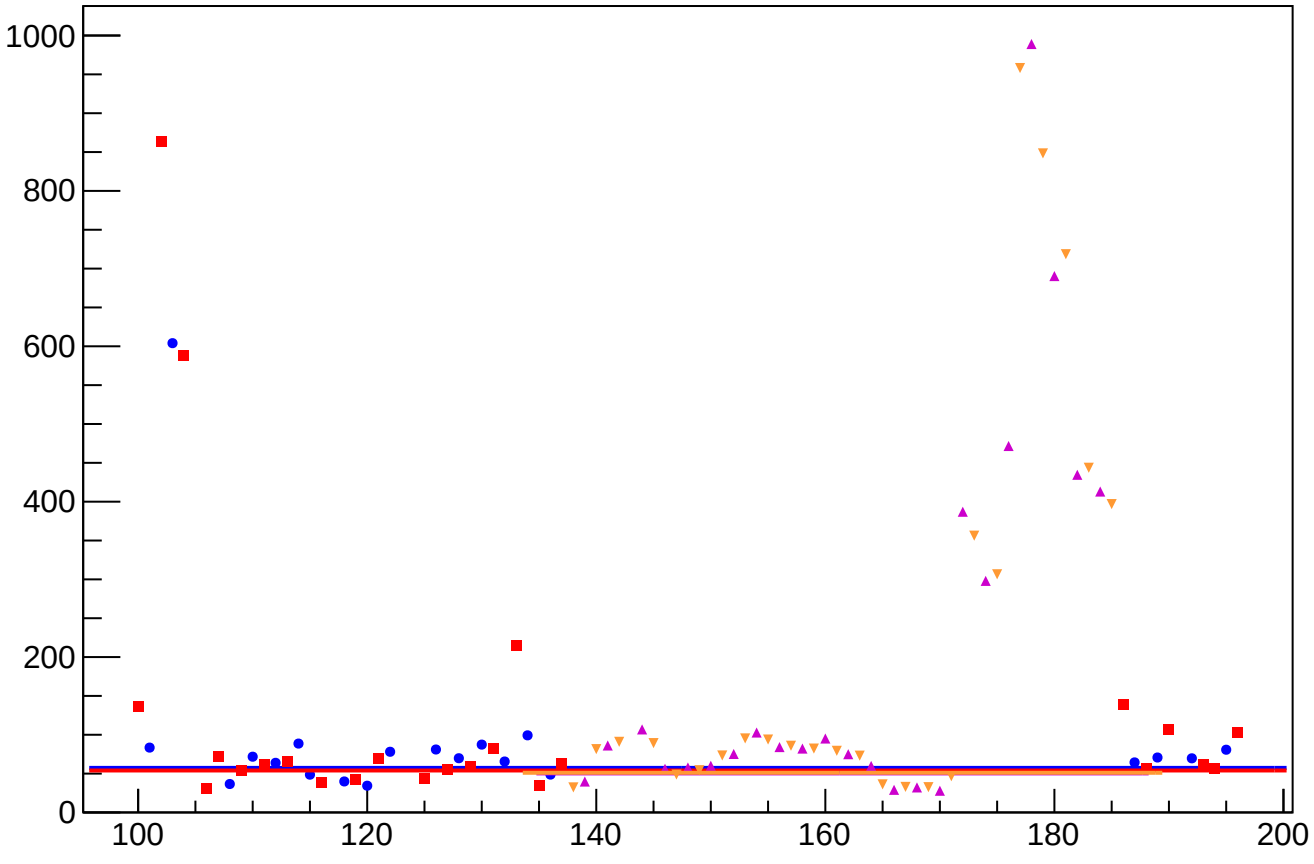
Left: 0.015+/-0.011 $\chi^2$/NDF: 59.5/46

Right: 0.002+/-0.014 $\chi^2$/NDF: 34.6/43

In: -0.002+/-0.012 $\chi^2$/NDF:26.2/42

Out: 0.022+/-0.012 $\chi^2$/NDF:66.3/47

All: 0.011+/-0.009 $\chi^2$/NDF: 94.6/90




Right In: 57.370+/-0.015 $\chi^2$/NDF: 2478357.8/19

Left Out: 51.081+/-0.011 $\chi^2$/NDF:11736636.7/23

Right Out: 54.030+/-0.013 $\chi^2$/NDF: 3923269.5/23

Left In: 50.251+/-0.011 $\chi^2$/NDF:12195723.8/22

Left: 50.660+/-0.008 $\chi^2$/NDF: 23935280.6/46

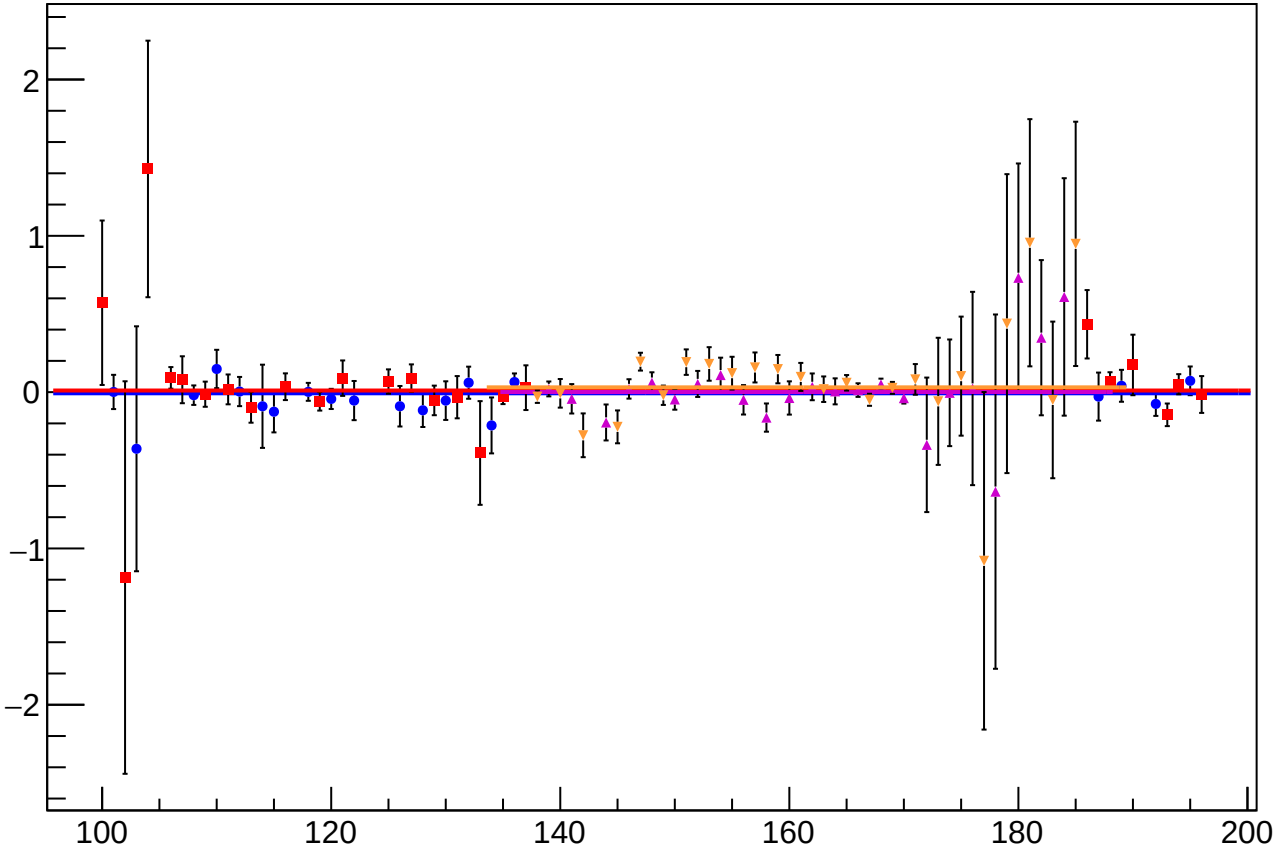
Right: 55.521+/-0.010 $\chi^2$/NDF: 6430022.5/43

In: 52.733+/-0.009 $\chi^2$/NDF:14825911.7/42

Out: 52.277+/-0.008 $\chi^2$/NDF:15689373.5/47

All: 52.498+/-0.006 $\chi^2$/NDF: 30516702.7/90

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.021 $\chi^2$/NDF: 10.1/19

Left Out: 0.031+/-0.015 $\chi^2$/NDF:41.5/23

Right Out: 0.010+/-0.019 $\chi^2$/NDF: 24.1/23

Left In: 0.001+/-0.015 $\chi^2$/NDF:16.0/22

Left: 0.015+/-0.011 $\chi^2$/NDF: 59.5/46

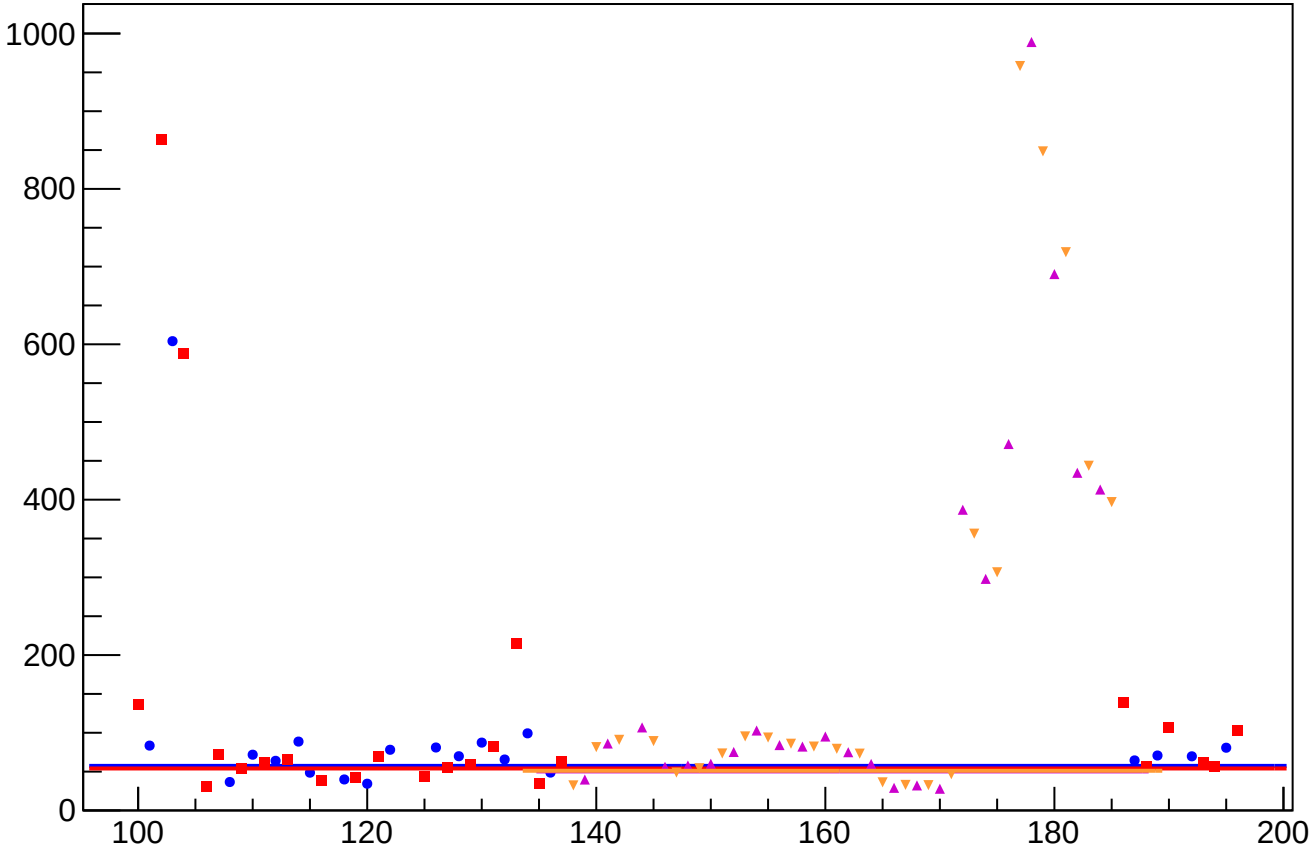
Right: 0.002+/-0.014 $\chi^2$/NDF: 34.6/43

In: -0.002+/-0.012 $\chi^2$/NDF:26.2/42

Out: 0.022+/-0.012 $\chi^2$/NDF:66.3/47

All: 0.011+/-0.009 $\chi^2$/NDF: 94.6/90

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 57.370+/-0.015 $\chi^2$/NDF: 2478357.8/19

Left Out: 51.081+/-0.011 $\chi^2$/NDF:11736636.7/23

Right Out: 54.030+/-0.013 $\chi^2$/NDF: 3923269.5/23

Left In: 50.251+/-0.011 $\chi^2$/NDF:12195723.8/22

Left: 50.660+/-0.008 $\chi^2$/NDF: 23935280.6/46

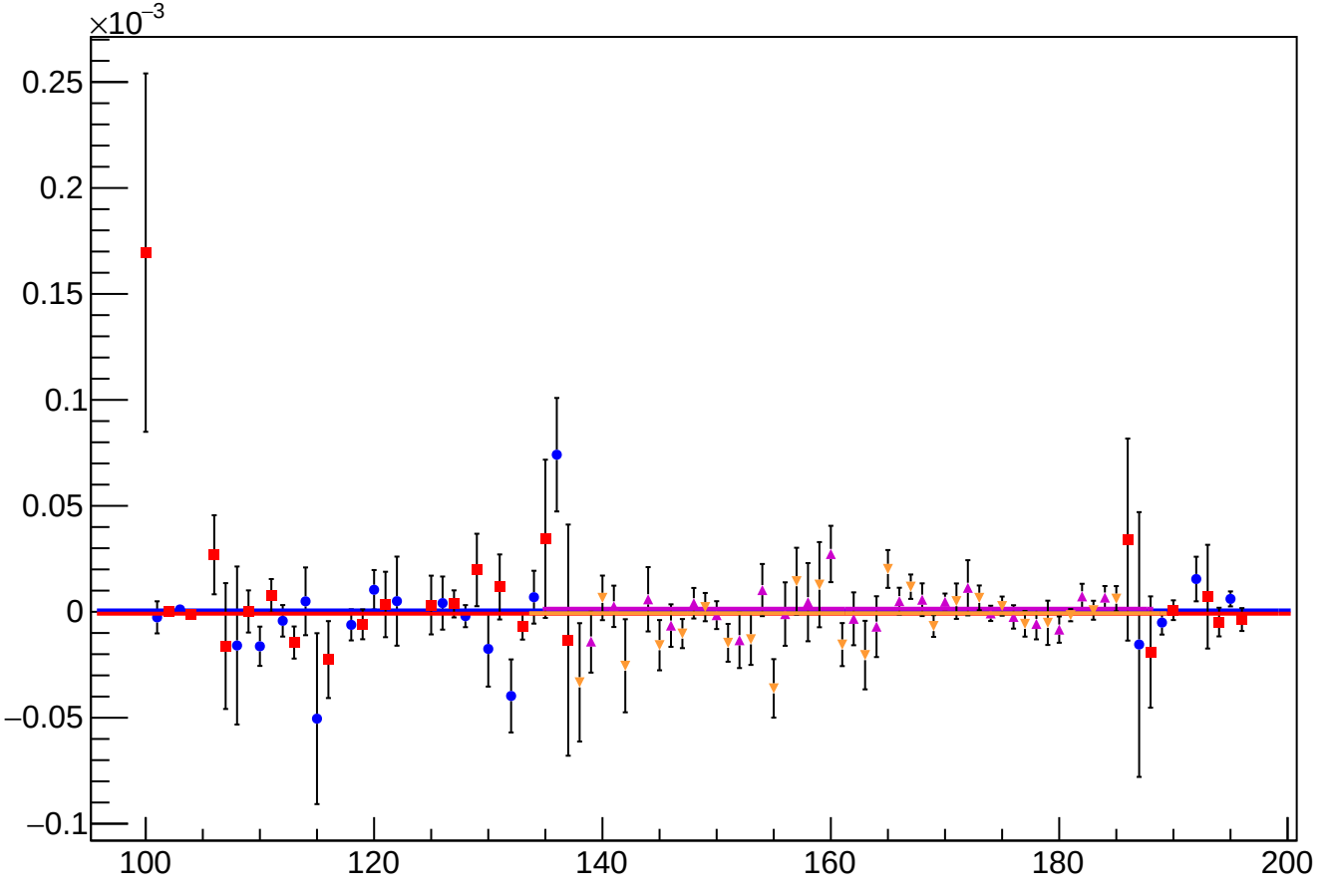
Right: 55.521+/-0.010 $\chi^2$/NDF: 6430022.5/43

In: 52.733+/-0.009 $\chi^2$/NDF:14825911.7/42

Out: 52.277+/-0.008 $\chi^2$/NDF:15689373.5/47

All: 52.498+/-0.006 $\chi^2$/NDF: 30516702.7/90

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: 28.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:38.5/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.7/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.4/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 56.0/46

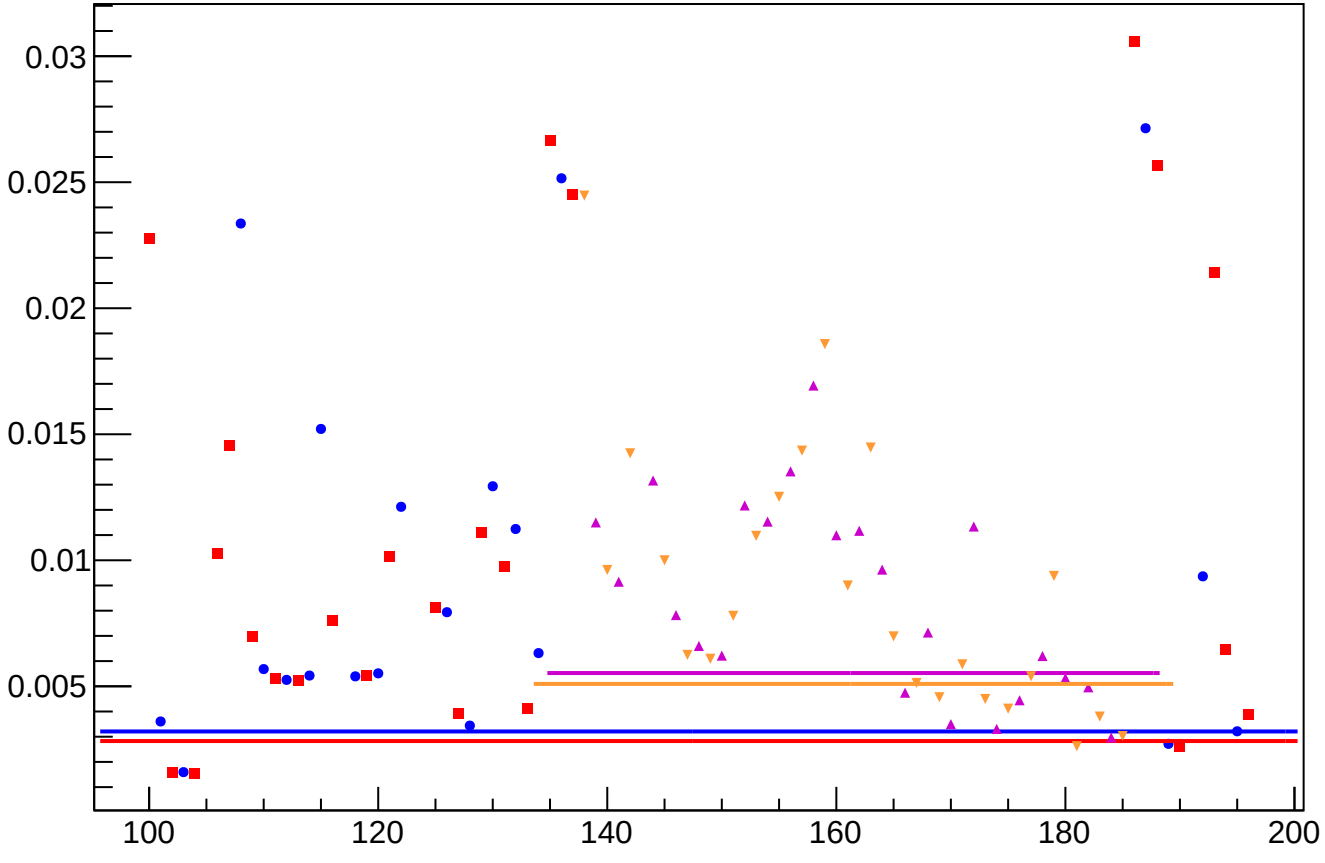
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:44.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:58.2/47

All: -0.000+/-0.000 $\chi^2$/NDF: 104.5/90

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 6784035.8/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:8380878.9/23

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 10341887.2/23

Left In: 0.006+/-0.000 $\chi^2$/NDF:6892708.8/22

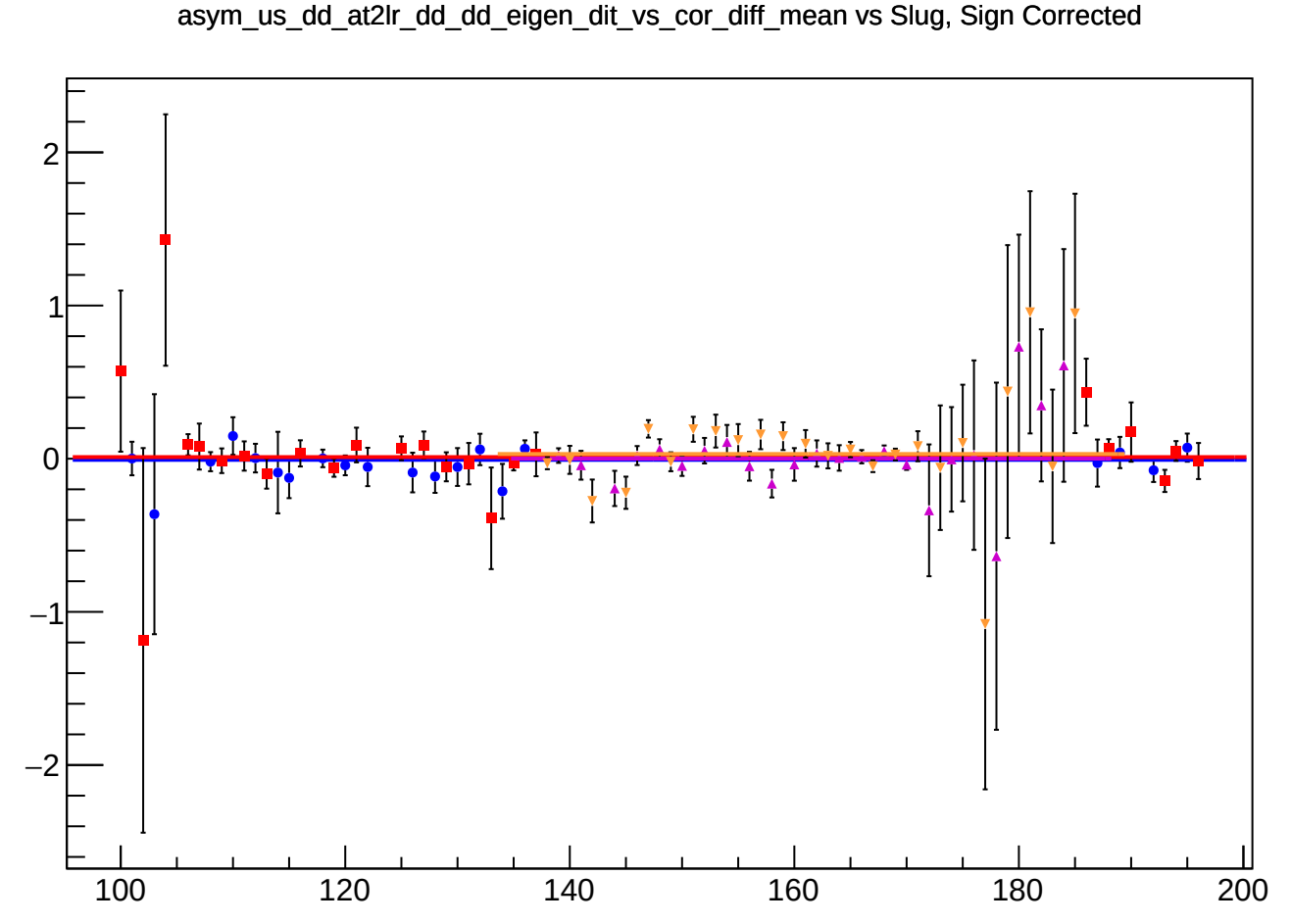
Left: 0.005+/-0.000 $\chi^2$/NDF: 15361726.2/46

Right: 0.003+/-0.000 $\chi^2$/NDF: 17211721.3/43

In: 0.004+/-0.000 $\chi^2$/NDF:16191300.0/42

Out: 0.004+/-0.000 $\chi^2$/NDF:21826266.7/47

All: 0.004+/-0.000 $\chi^2$/NDF: 38308220.3/90




Right In: -0.007+/-0.021 $\chi^2$/NDF: 10.1/19

Left Out: 0.031+/-0.015 $\chi^2$/NDF:41.5/23

Right Out: 0.010+/-0.019 $\chi^2$/NDF: 24.1/23

Left In: 0.001+/-0.015 $\chi^2$/NDF:16.0/22

Left: 0.015+/-0.011 $\chi^2$/NDF: 59.5/46

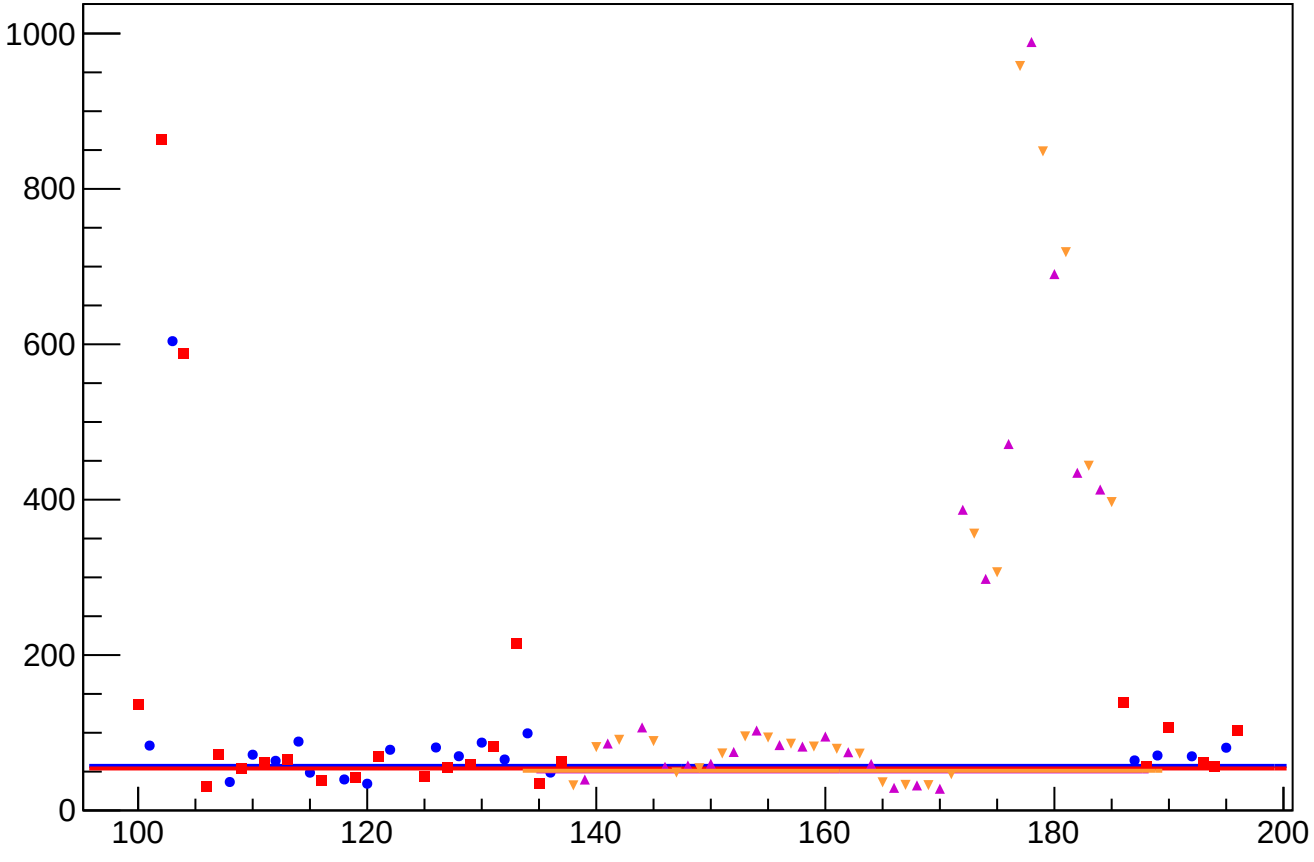
Right: 0.002+/-0.014 $\chi^2$/NDF: 34.6/43

In: -0.002+/-0.012 $\chi^2$/NDF:26.2/42

Out: 0.022+/-0.012 $\chi^2$/NDF:66.3/47

All: 0.011+/-0.009 $\chi^2$/NDF: 94.6/90

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 57.373+/-0.015 $\chi^2$/NDF: 2477877.2/19

Left Out: 51.083+/-0.011 $\chi^2$/NDF:11735805.5/23

Right Out: 54.032+/-0.013 $\chi^2$/NDF: 3922916.0/23

Left In: 50.251+/-0.011 $\chi^2$/NDF:12195665.4/22

Left: 50.661+/-0.008 $\chi^2$/NDF: 23934407.8/46

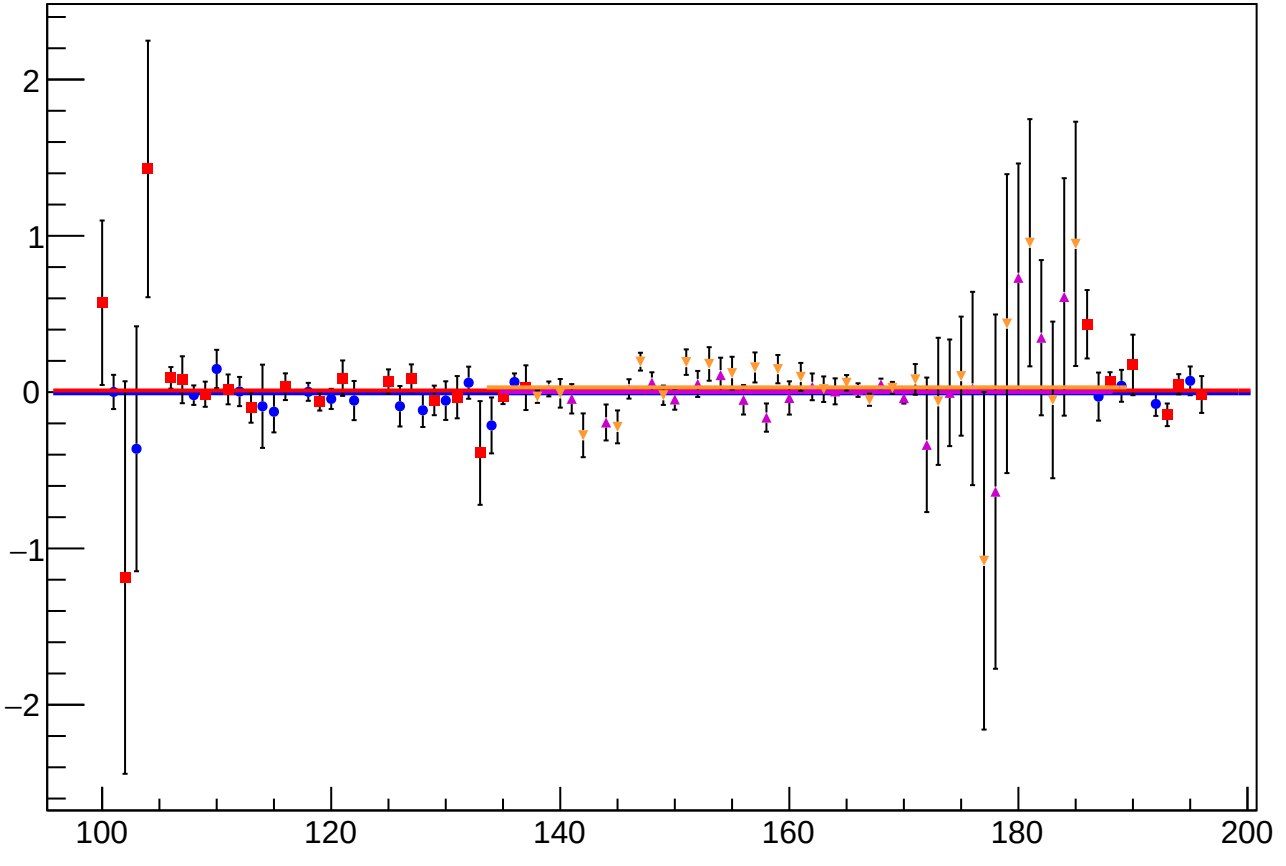
Right: 55.524+/-0.010 $\chi^2$/NDF: 6429205.2/43

In: 52.734+/-0.009 $\chi^2$/NDF:14825491.4/42

Out: 52.279+/-0.008 $\chi^2$/NDF:15688177.1/47

All: 52.500+/-0.006 $\chi^2$/NDF: 30515077.9/90

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.007+/-0.021 $\chi^2$/NDF: 10.1/19

Left Out: 0.031+/-0.015 $\chi^2$/NDF:41.5/23

Right Out: 0.010+/-0.019 $\chi^2$/NDF: 24.1/23

Left In: 0.001+/-0.015 $\chi^2$/NDF:16.0/22

Left: 0.015+/-0.011 $\chi^2$/NDF: 59.5/46

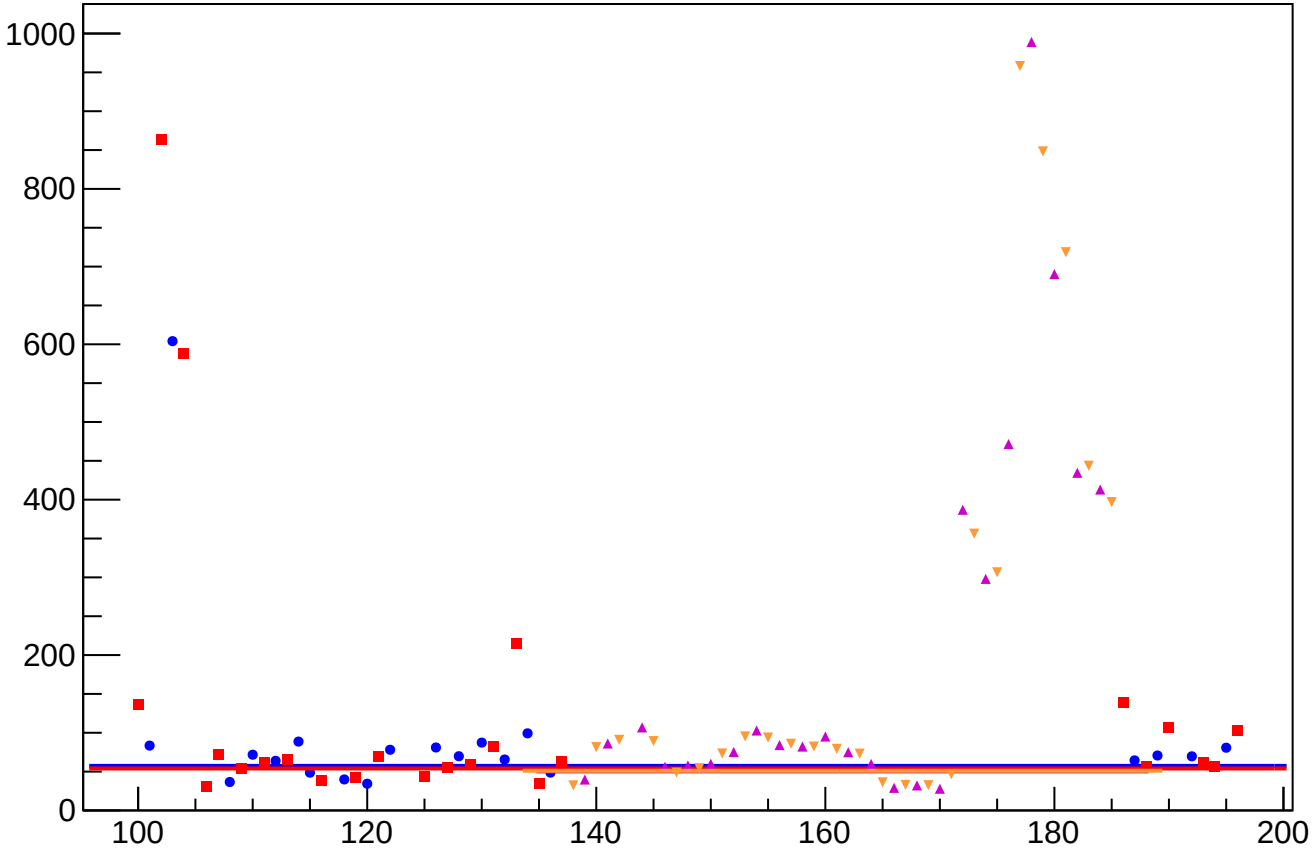
Right: 0.002+/-0.014 $\chi^2$/NDF: 34.6/43

In: -0.002+/-0.012 $\chi^2$/NDF:26.2/42

Out: 0.022+/-0.012 $\chi^2$/NDF:66.3/47

All: 0.011+/-0.009 $\chi^2$/NDF: 94.6/90

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 57.373+/-0.015 $\chi^2$/NDF: 2477877.2/19

Left Out: 51.083+/-0.011 $\chi^2$/NDF:11735805.5/23

Right Out: 54.032+/-0.013 $\chi^2$/NDF: 3922916.0/23

Left In: 50.251+/-0.011 $\chi^2$/NDF:12195665.4/22

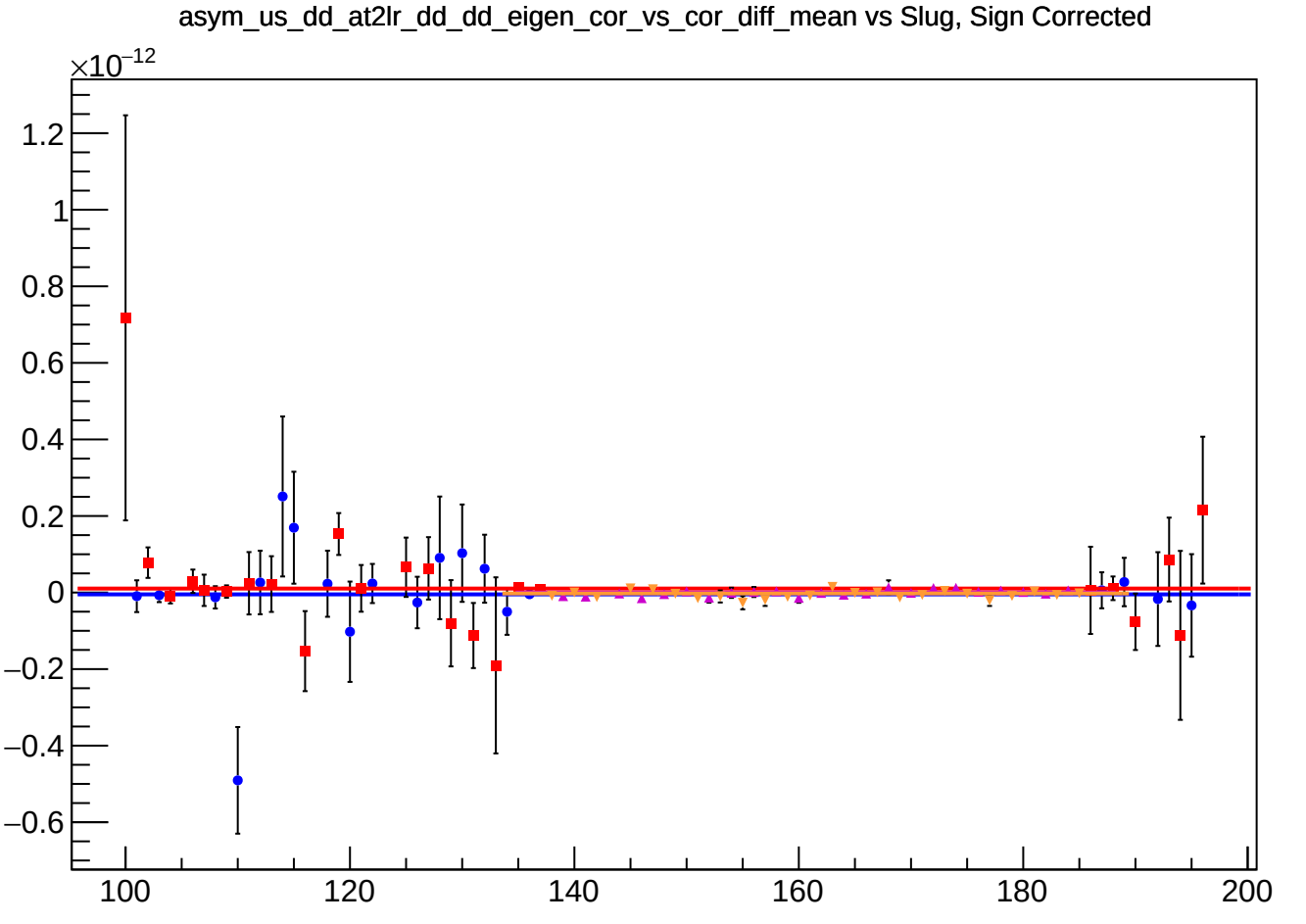
Left: 50.661+/-0.008 $\chi^2$/NDF: 23934407.8/46

Right: 55.524+/-0.010 $\chi^2$/NDF: 6429205.2/43

In: 52.734+/-0.009 $\chi^2$/NDF:14825491.4/42

Out: 52.279+/-0.008 $\chi^2$/NDF:15688177.1/47

All: 52.500+/-0.006 $\chi^2$/NDF: 30515077.9/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.2/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 23.4/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.2/22

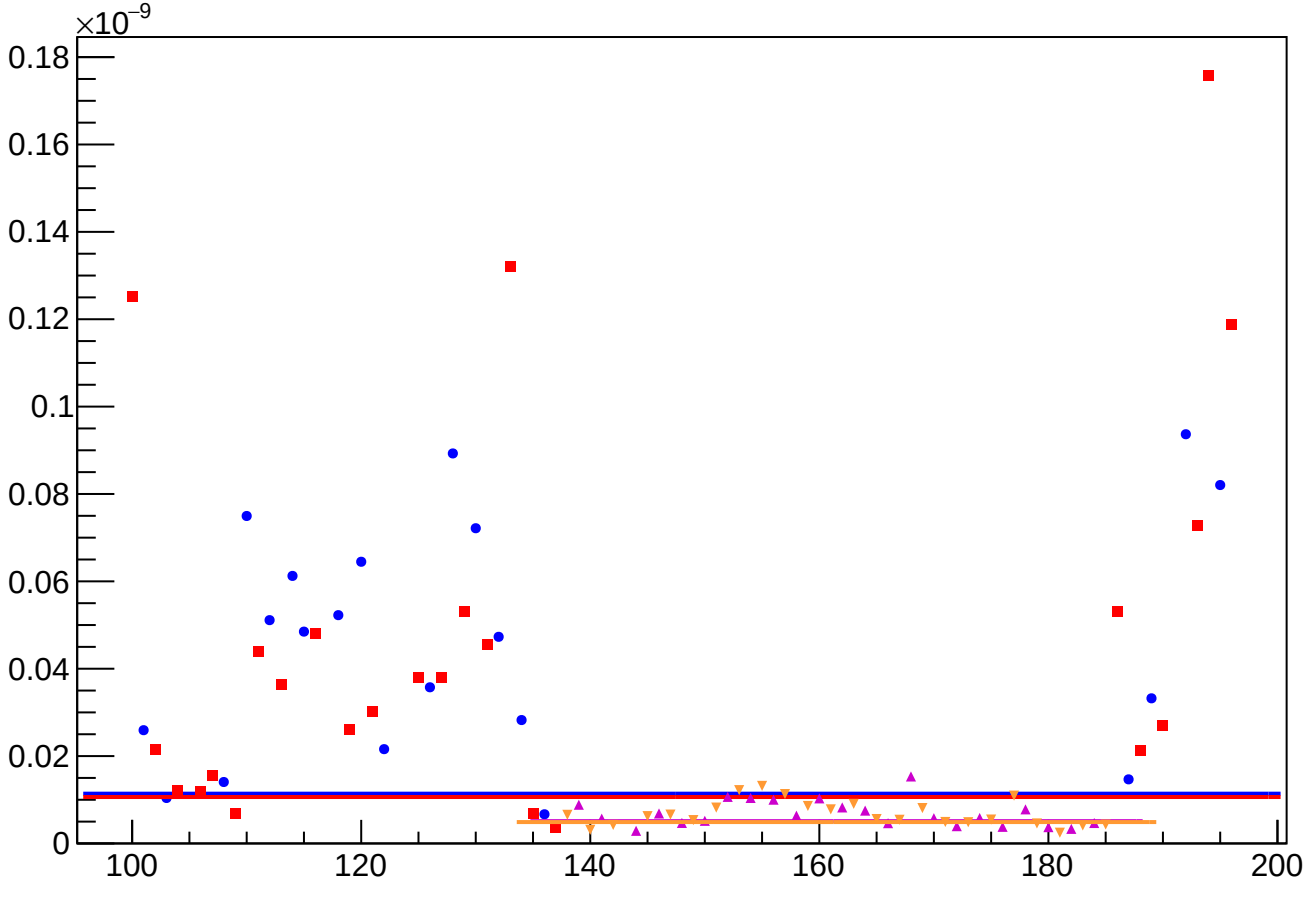
Left: -0.000+/-0.000 $\chi^2$/NDF: 41.4/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 45.1/43

In: -0.000+/-0.000 $\chi^2$/NDF:37.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.5/47

All: -0.000+/-0.000 $\chi^2$/NDF: 87.4/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6289683.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:4312108.9/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7110809.6/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:3777059.0/22

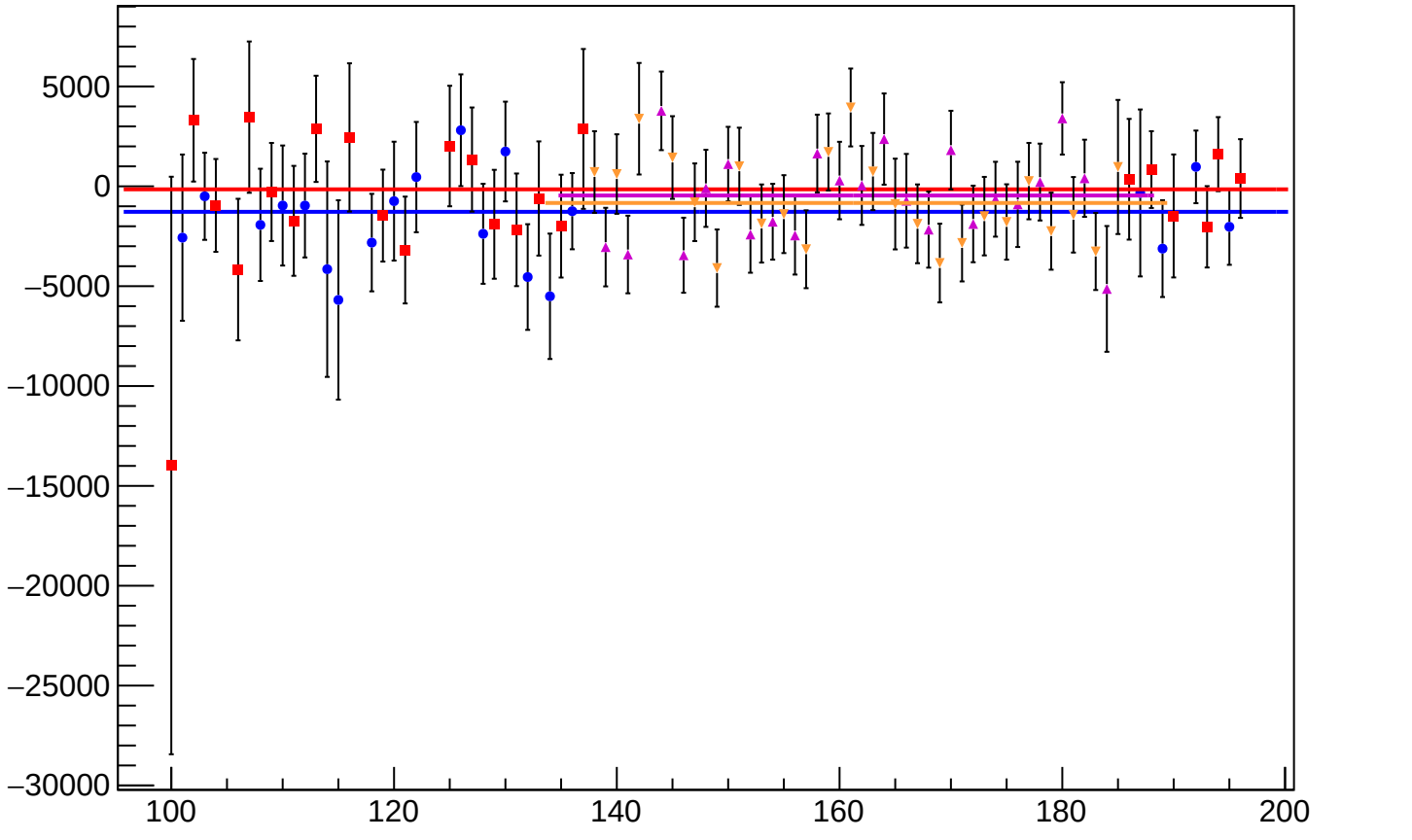
Left: 0.000+/-0.000 $\chi^2$/NDF: 8107483.0/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 13414438.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:11734359.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13001655.0/47

All: 0.000+/-0.000 $\chi^2$/NDF: 24757279.7/90




Right In: -1276.836+/-586.072 $\chi^2$/NDF: 11.6/19

Left Out: -832.582+/-410.448 $\chi^2$/NDF:25.4/23

Right Out: -150.587+/-541.305 $\chi^2$/NDF: 13.4/23

Left In: -459.594+/-413.637 $\chi^2$/NDF:27.3/22

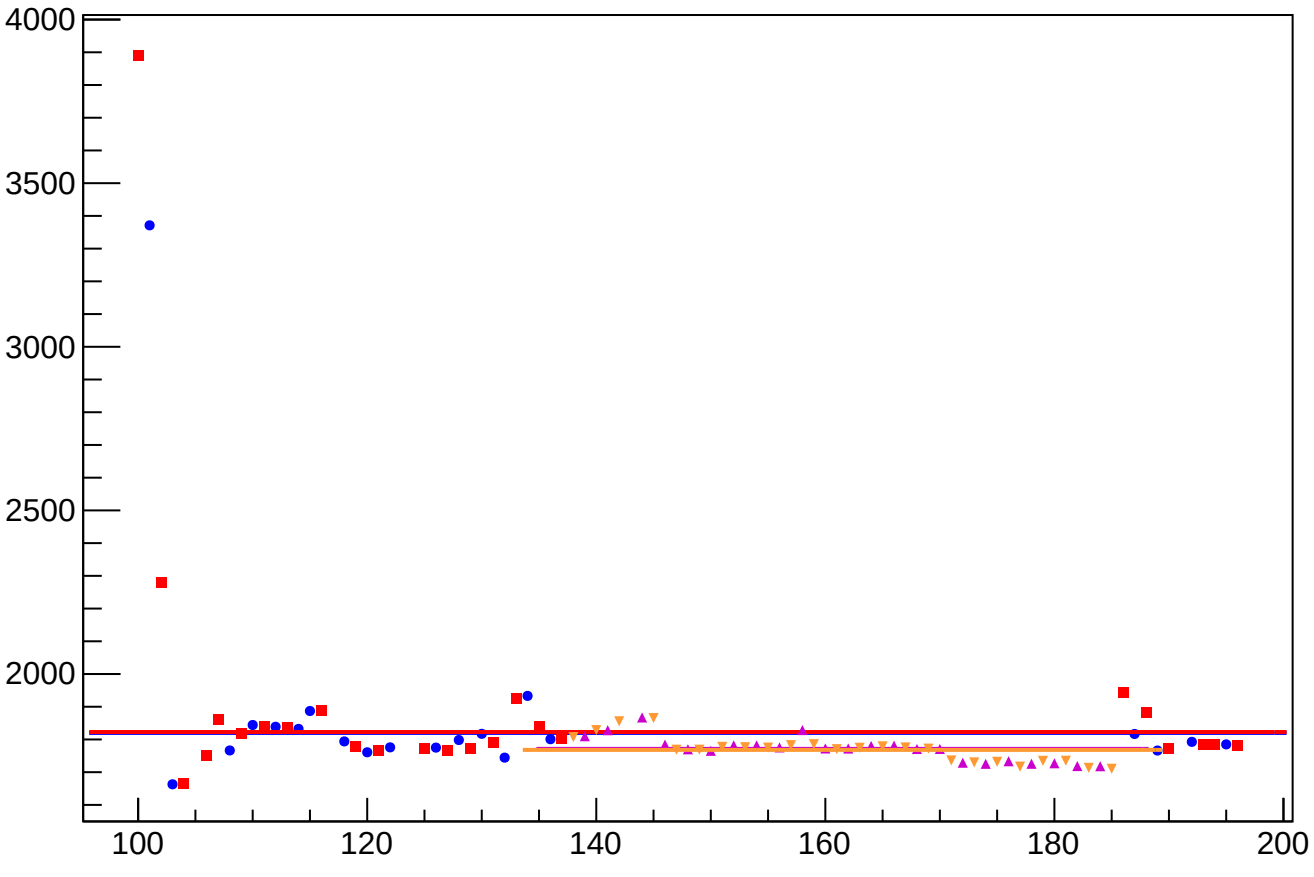
Left: -647.532+/-291.352 $\chi^2$/NDF: 53.1/46

Right: -669.060+/-397.646 $\chi^2$/NDF: 27.0/43

In: -731.326+/-337.945 $\chi^2$/NDF:40.2/42

Out: -583.613+/-327.058 $\chi^2$/NDF:39.9/47

All: -655.052+/-235.019 $\chi^2$/NDF: 80.1/90




Right In: 1820.002+/-0.414 $\chi^2$/NDF: 298262.5/19

Left Out: 1768.125+/-0.290 $\chi^2$/NDF:16358.2/23

Right Out: 1822.734+/-0.383 $\chi^2$/NDF: 111236.7/23

Left In: 1771.217+/-0.292 $\chi^2$/NDF:16425.7/22

Left: 1769.659+/-0.206 $\chi^2$/NDF: 32840.2/46

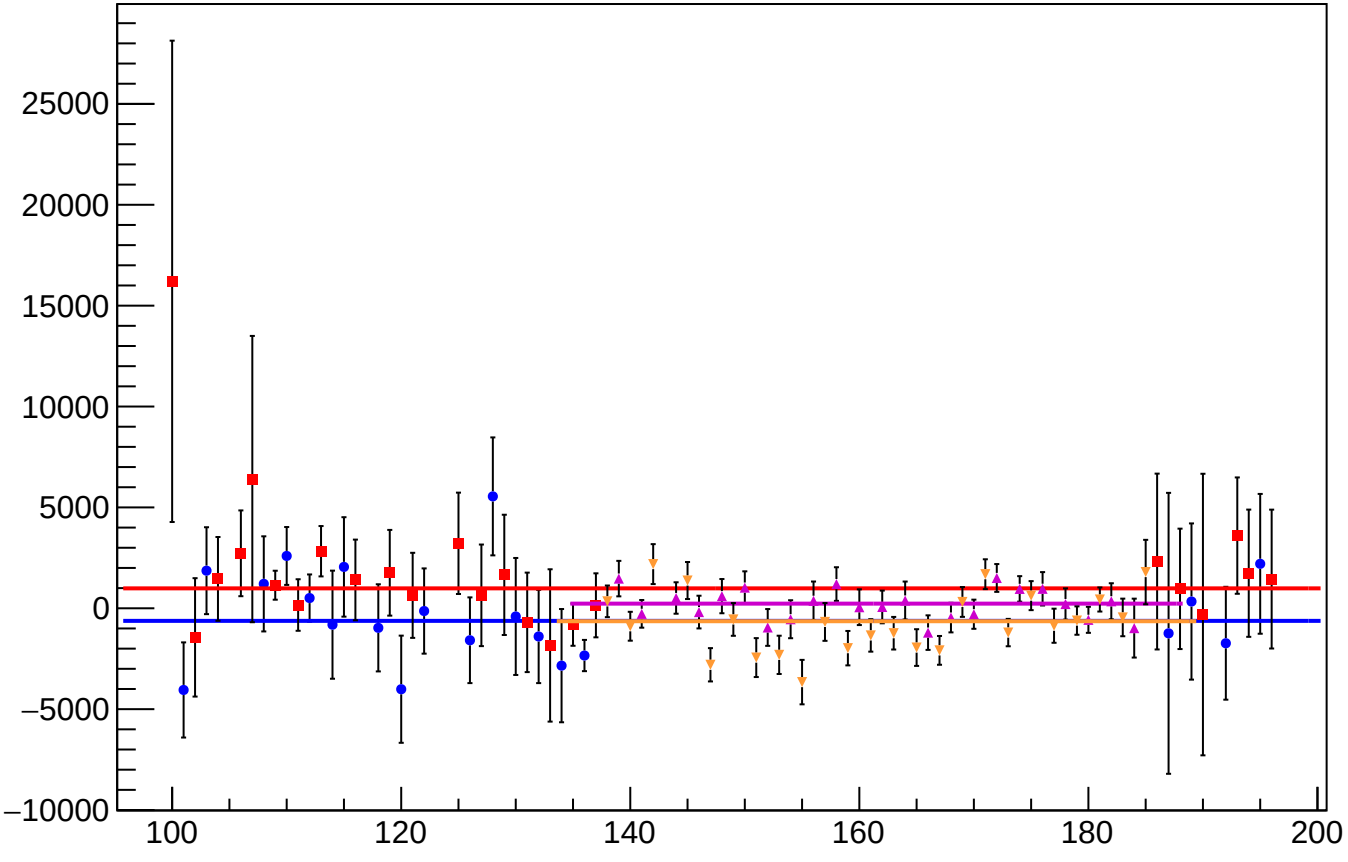
Right: 1821.476+/-0.281 $\chi^2$/NDF: 409522.6/43

In: 1787.438+/-0.239 $\chi^2$/NDF:323938.2/42

Out: 1788.061+/-0.231 $\chi^2$/NDF:140519.0/47

All: 1787.760+/-0.166 $\chi^2$/NDF: 464460.8/90

asym_us_dd_atlr_dd_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: -623.599+/-429.775 $\chi^2$/NDF: 24.1/19

Left Out: -641.029+/-166.449 $\chi^2$/NDF:66.7/23

Right Out: 987.392+/-379.279 $\chi^2$/NDF: 12.6/23

Left In: 230.653+/-168.319 $\chi^2$/NDF:19.9/22

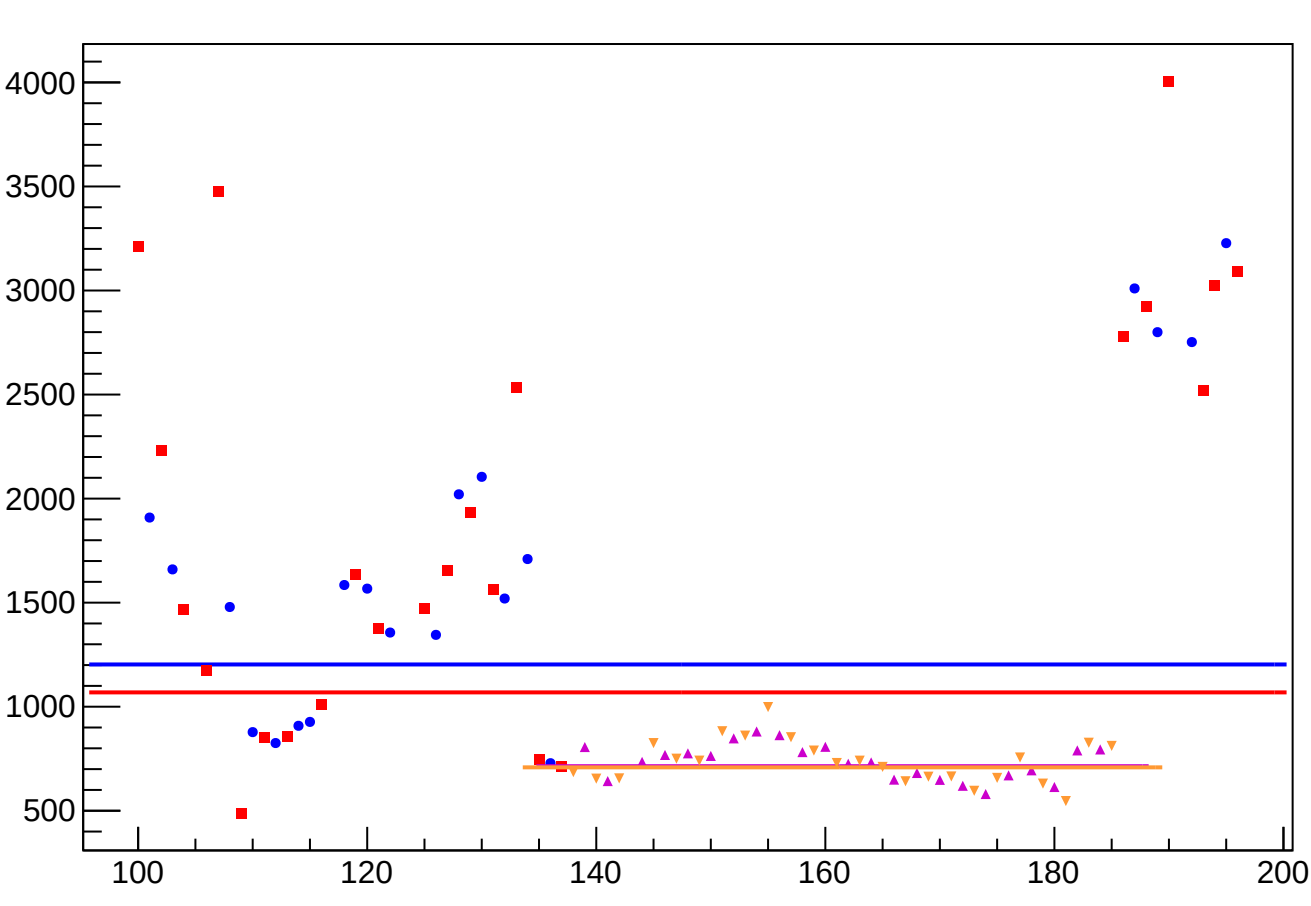
Left: -210.057+/-118.353 $\chi^2$/NDF: 100.2/46

Right: 282.054+/-284.376 $\chi^2$/NDF: 44.6/43

In: 117.048+/-156.728 $\chi^2$/NDF:47.5/42

Out: -378.051+/-152.418 $\chi^2$/NDF:94.7/47

All: -137.403+/-109.268 $\chi^2$/NDF: 147.4/90




Right In: 1202.975+/-0.304 $\chi^2$/NDF: 3751537.6/19

Left Out: 708.503+/-0.118 $\chi^2$/NDF:700473.3/23

Right Out: 1068.742+/-0.268 $\chi^2$/NDF: 6705064.9/23

Left In: 714.162+/-0.119 $\chi^2$/NDF:497246.5/22

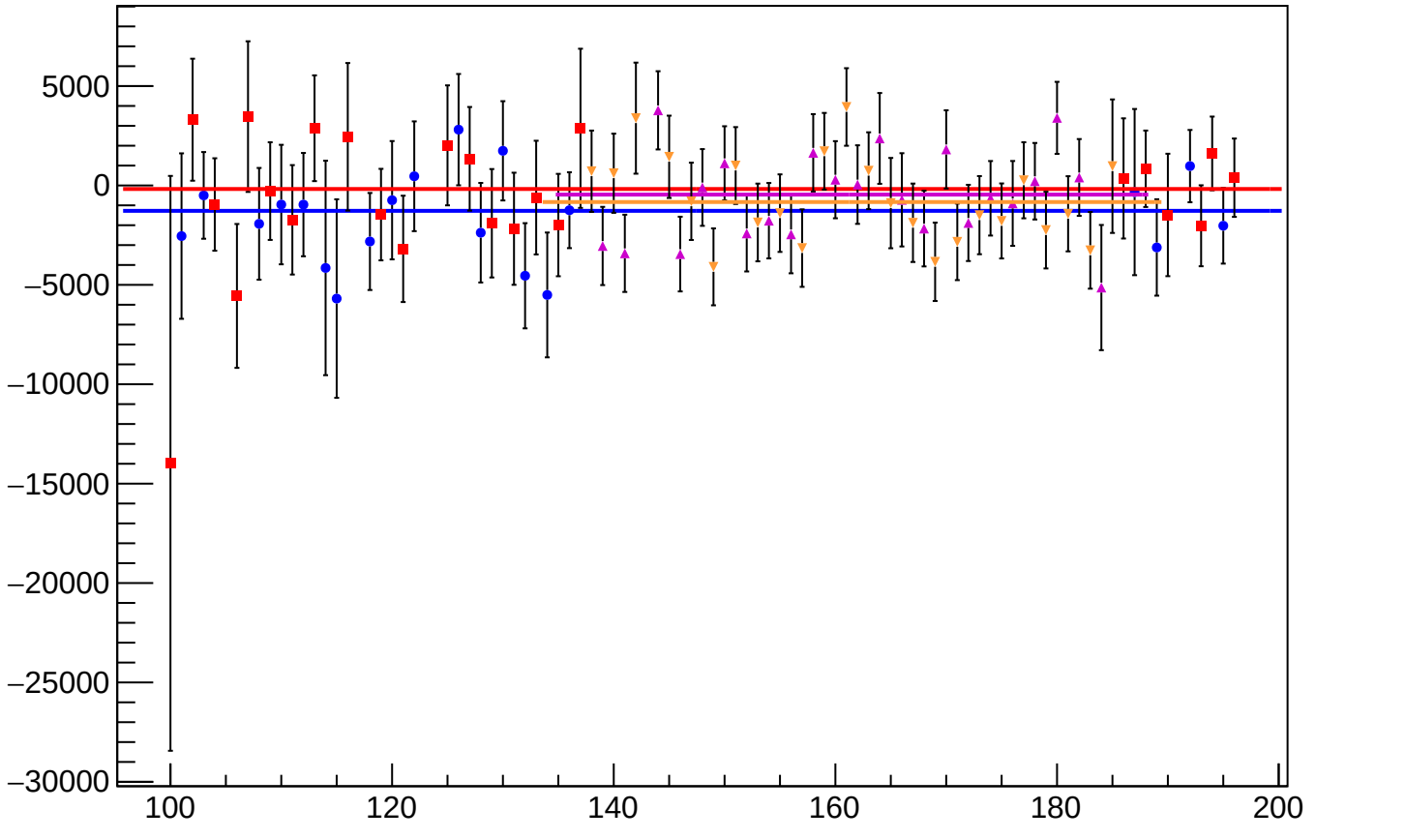
Left: 711.301+/-0.084 $\chi^2$/NDF: 1198862.9/46

Right: 1127.513+/-0.201 $\chi^2$/NDF: 10566284.8/43

In: 779.168+/-0.111 $\chi^2$/NDF:6491938.5/42

Out: 766.679+/-0.108 $\chi^2$/NDF:8918408.2/47

All: 772.749+/-0.077 $\chi^2$/NDF: 15416874.1/90




Right In: -1276.413+/-586.072 $\chi^2$/NDF: 11.6/19

Left Out: -832.476+/-410.448 $\chi^2$/NDF:25.4/23

Right Out: -177.759+/-541.563 $\chi^2$/NDF: 14.4/23

Left In: -459.554+/-413.637 $\chi^2$/NDF:27.3/22

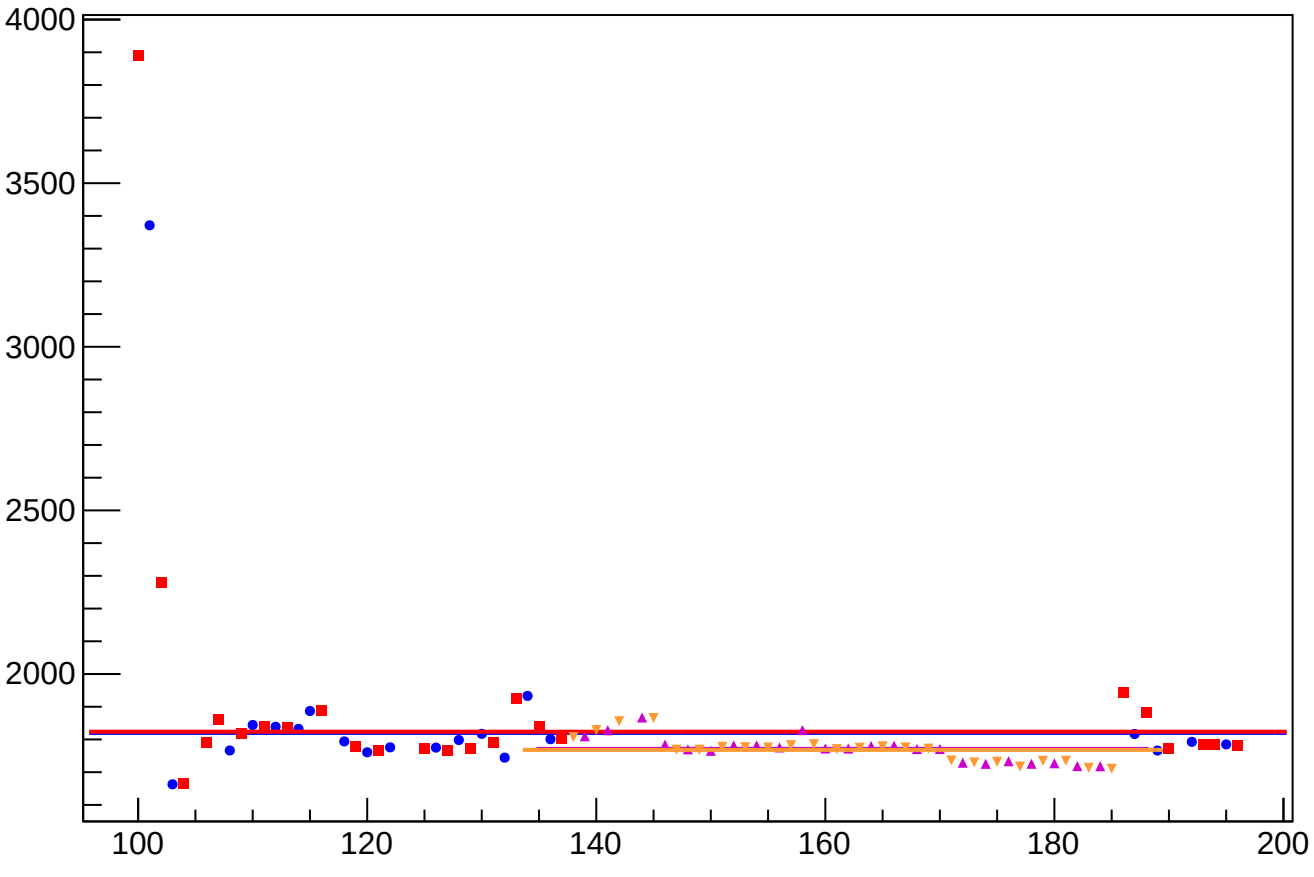
Left: -647.458+/-291.352 $\chi^2$/NDF: 53.1/46

Right: -683.788+/-397.749 $\chi^2$/NDF: 27.9/43

In: -731.158+/-337.945 $\chi^2$/NDF:40.2/42

Out: -593.610+/-327.114 $\chi^2$/NDF:40.7/47

All: -660.144+/-235.041 $\chi^2$/NDF: 81.0/90




Right In: 1820.002+/-0.414 $\chi^2$/NDF: 298264.4/19

Left Out: 1768.125+/-0.290 $\chi^2$/NDF:16358.2/23

Right Out: 1823.718+/-0.383 $\chi^2$/NDF: 110551.1/23

Left In: 1771.217+/-0.292 $\chi^2$/NDF:16425.7/22

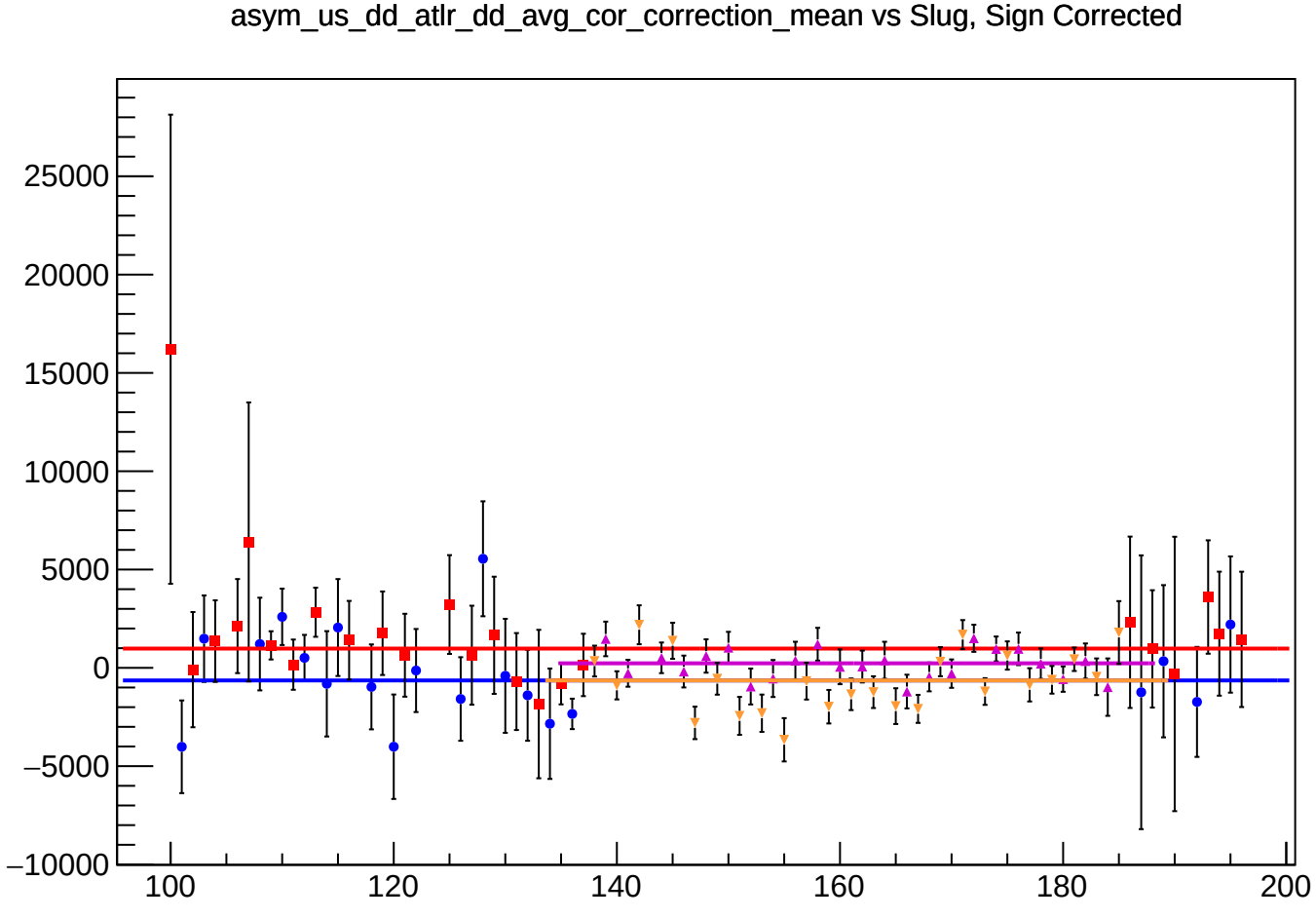
Left: 1769.659+/-0.206 $\chi^2$/NDF: 32840.2/46

Right: 1822.006+/-0.281 $\chi^2$/NDF: 408858.9/43

In: 1787.438+/-0.239 $\chi^2$/NDF:323940.0/42

Out: 1788.408+/-0.231 $\chi^2$/NDF:140295.4/47

All: 1787.939+/-0.166 $\chi^2$/NDF: 464243.9/90




Right In: -641.121+/-430.115 $\chi^2$/NDF: 23.7/19

Left Out: -641.004+/-166.450 $\chi^2$/NDF:66.7/23

Right Out: 979.666+/-380.527 $\chi^2$/NDF: 11.6/23

Left In: 230.572+/-168.320 $\chi^2$/NDF:19.9/22

Left: -210.085+/-118.354 $\chi^2$/NDF: 100.2/46

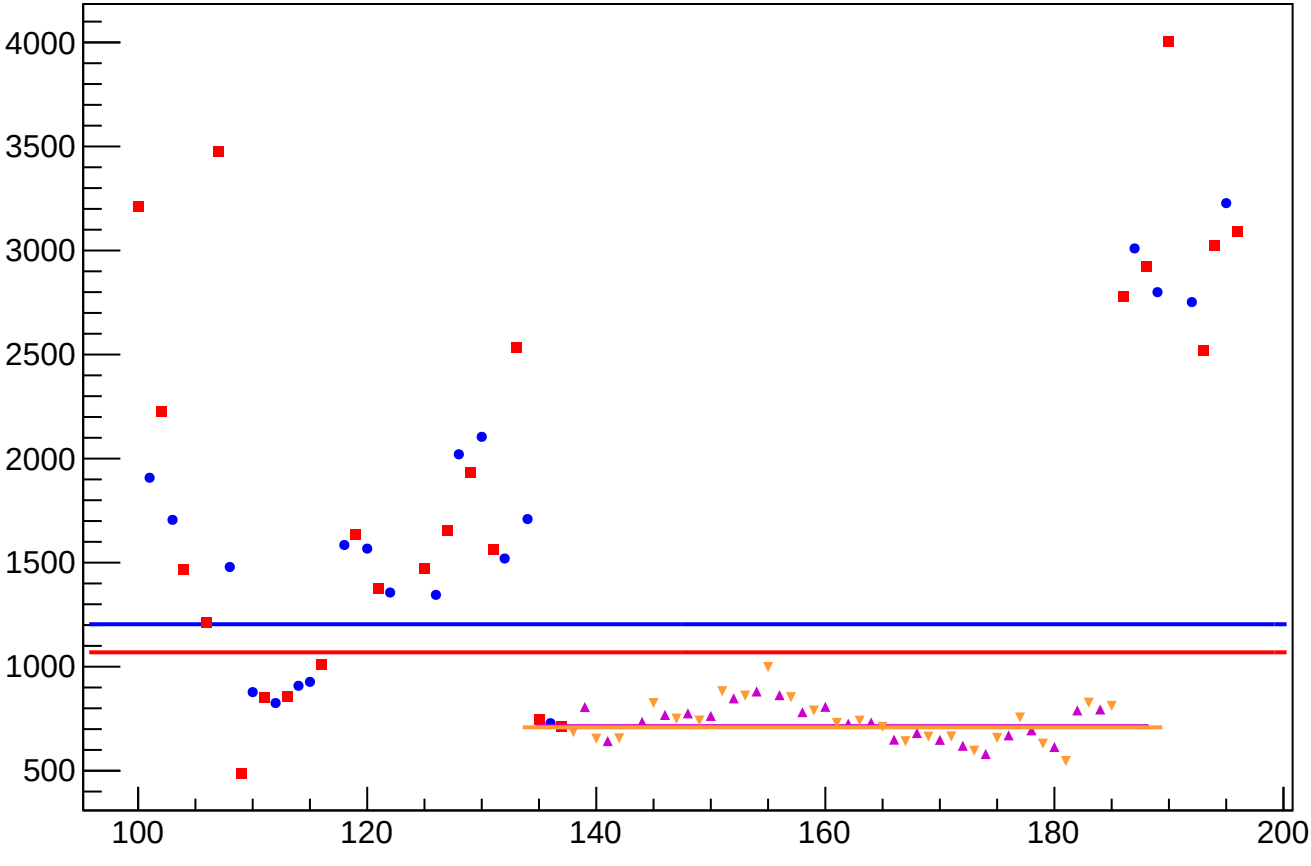
Right: 268.049+/-285.000 $\chi^2$/NDF: 43.2/43

In: 114.805+/-156.745 $\chi^2$/NDF:47.2/42

Out: -380.713+/-152.499 $\chi^2$/NDF:93.5/47

All: -139.757+/-109.304 $\chi^2$/NDF: 145.8/90

asym_us_dd_atlr_dd_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1204.002+/-0.304 $\chi^2$/NDF: 3765794.9/19

Left Out: 708.508+/-0.118 $\chi^2$/NDF:700448.7/23

Right Out: 1068.985+/-0.269 $\chi^2$/NDF: 6706192.5/23

Left In: 714.168+/-0.119 $\chi^2$/NDF:497252.3/22

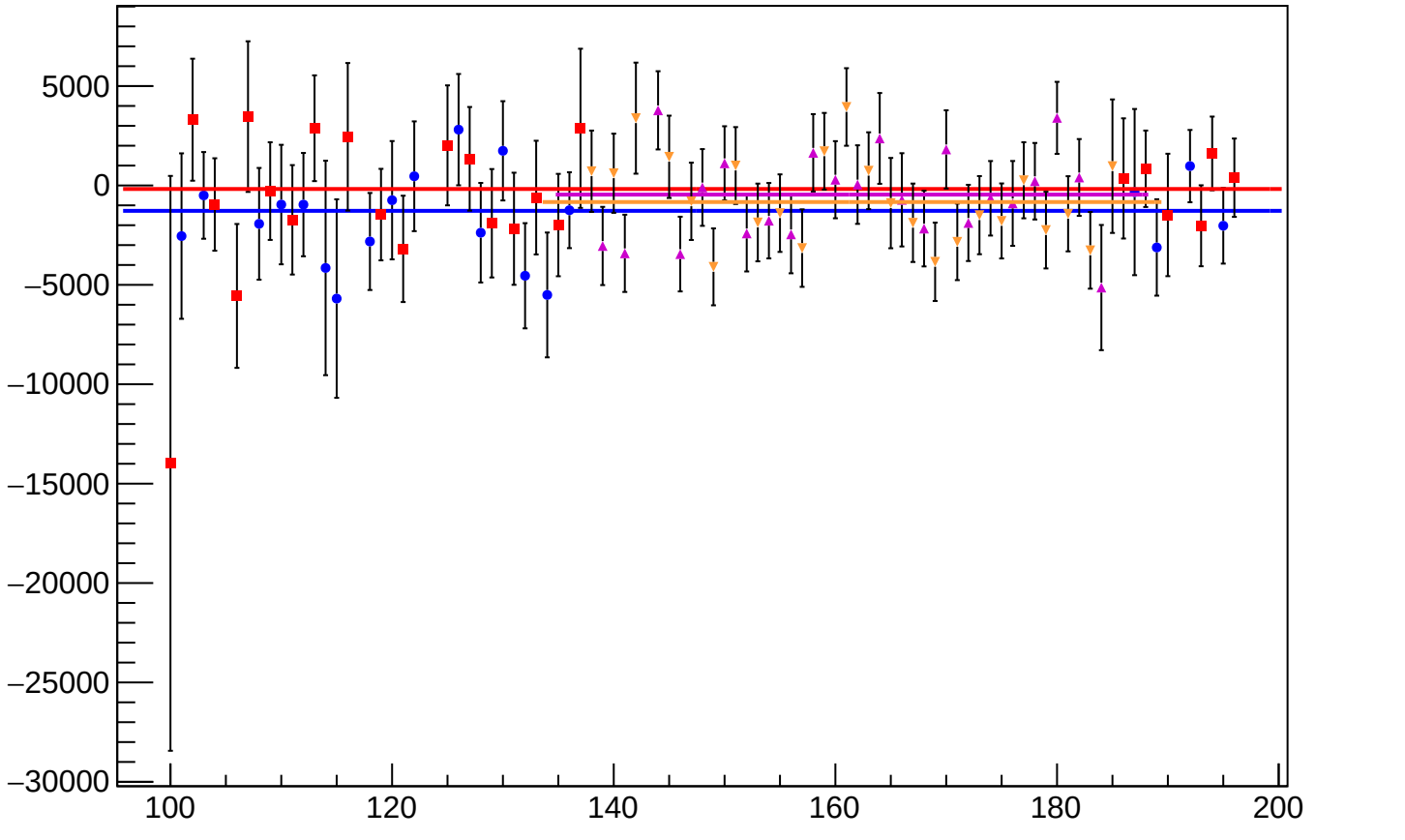
Left: 711.307+/-0.084 $\chi^2$/NDF: 1198844.2/46

Right: 1128.265+/-0.202 $\chi^2$/NDF: 10582537.2/43

In: 779.221+/-0.111 $\chi^2$/NDF:6512485.4/42

Out: 766.403+/-0.108 $\chi^2$/NDF:8913173.6/47

All: 772.636+/-0.077 $\chi^2$/NDF: 15432529.7/90




Right In: -1276.413+/-586.072 $\chi^2$/NDF: 11.6/19

Left Out: -832.476+/-410.448 $\chi^2$/NDF:25.4/23

Right Out: -177.759+/-541.563 $\chi^2$/NDF: 14.4/23

Left In: -459.554+/-413.637 $\chi^2$/NDF:27.3/22

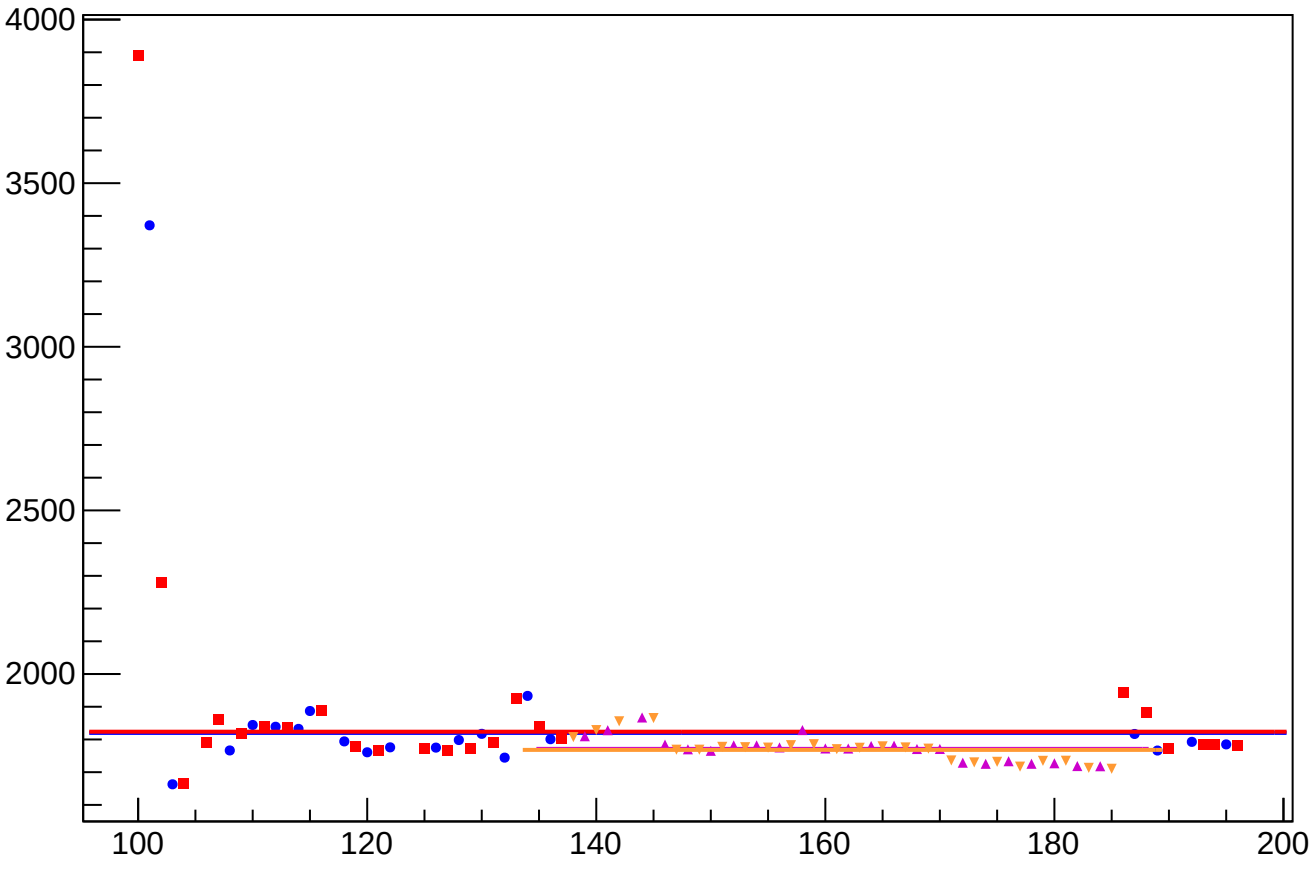
Left: -647.458+/-291.352 $\chi^2$/NDF: 53.1/46

Right: -683.788+/-397.749 $\chi^2$/NDF: 27.9/43

In: -731.158+/-337.945 $\chi^2$/NDF:40.2/42

Out: -593.610+/-327.114 $\chi^2$/NDF:40.7/47

All: -660.144+/-235.041 $\chi^2$/NDF: 81.0/90




Right In: 1820.002+/-0.414 $\chi^2$/NDF: 298264.4/19

Left Out: 1768.125+/-0.290 $\chi^2$/NDF:16358.2/23

Right Out: 1823.718+/-0.383 $\chi^2$/NDF: 110551.1/23

Left In: 1771.217+/-0.292 $\chi^2$/NDF:16425.7/22

Left: 1769.659+/-0.206 $\chi^2$/NDF: 32840.2/46

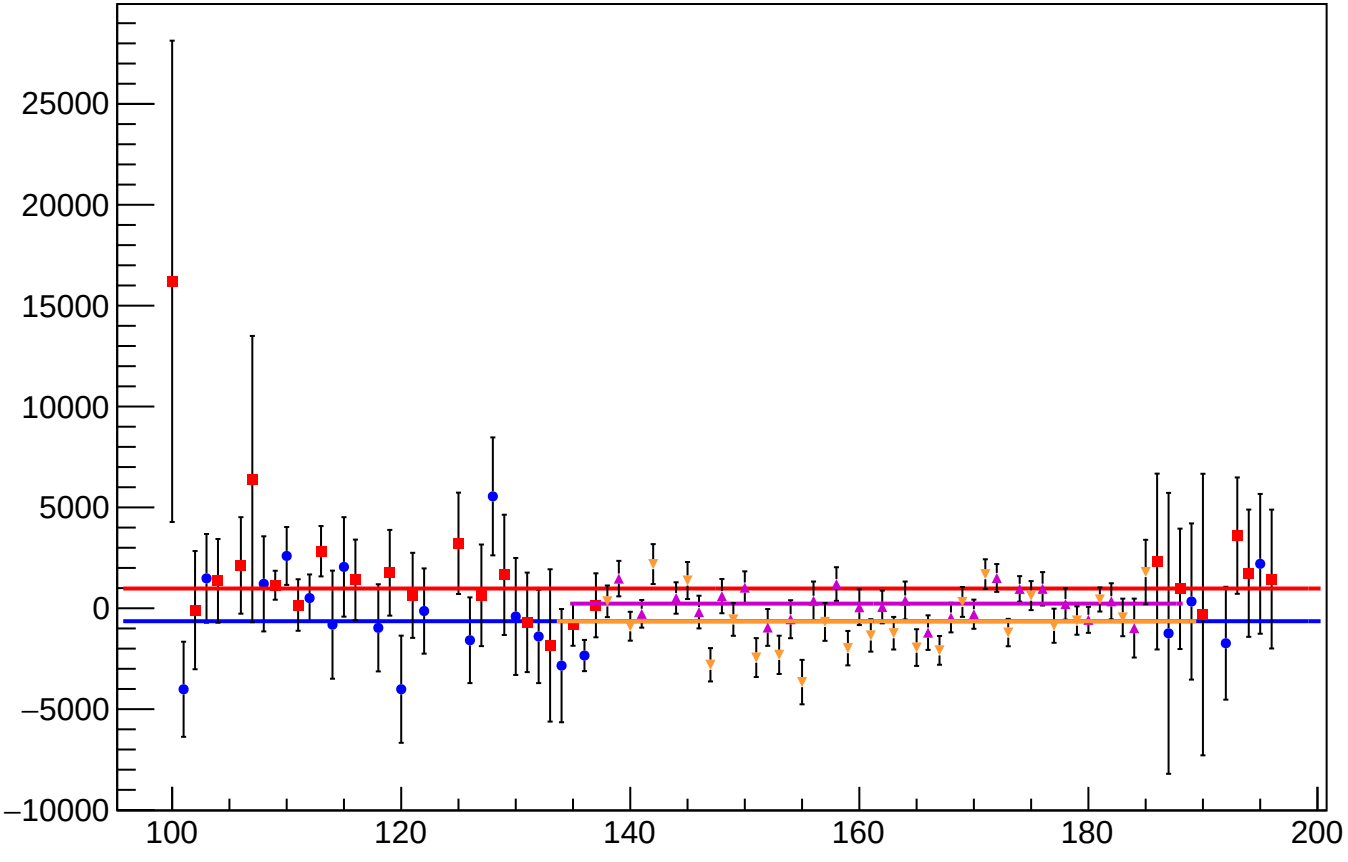
Right: 1822.006+/-0.281 $\chi^2$/NDF: 408858.9/43

In: 1787.438+/-0.239 $\chi^2$/NDF:323940.0/42

Out: 1788.408+/-0.231 $\chi^2$/NDF:140295.4/47

All: 1787.939+/-0.166 $\chi^2$/NDF: 464243.9/90

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -641.121+/-430.115 $\chi^2$/NDF: 23.7/19

Left Out: -641.004+/-166.450 $\chi^2$/NDF:66.7/23

Right Out: 979.666+/-380.527 $\chi^2$/NDF: 11.6/23

Left In: 230.572+/-168.320 $\chi^2$/NDF:19.9/22

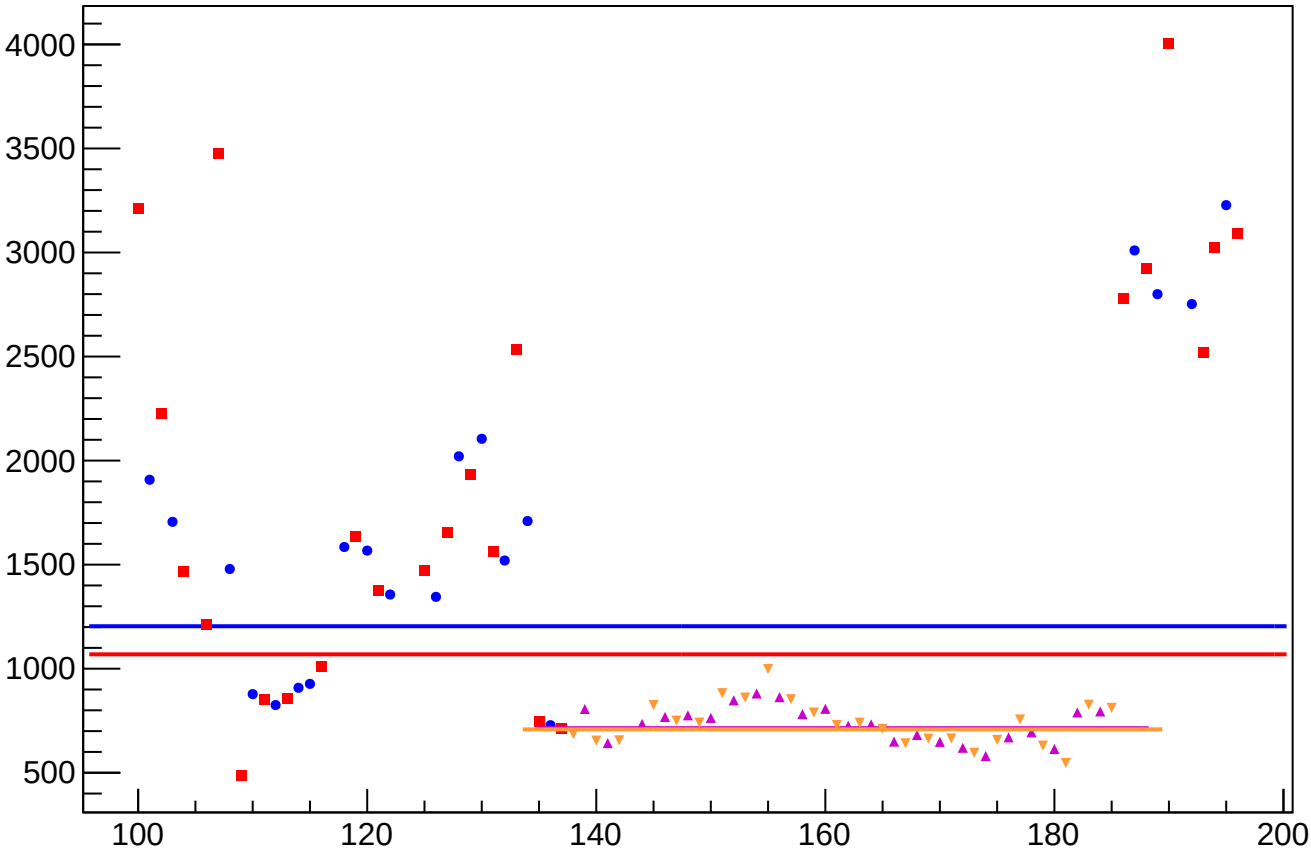
Left: -210.085+/-118.354 $\chi^2$/NDF: 100.2/46

Right: 268.049+/-285.000 $\chi^2$/NDF: 43.2/43

In: 114.805+/-156.745 $\chi^2$/NDF:47.2/42

Out: -380.713+/-152.499 $\chi^2$/NDF:93.5/47

All: -139.757+/-109.304 $\chi^2$/NDF: 145.8/90




Right In: 1204.002+/-0.304 $\chi^2$/NDF: 3765794.9/19

Left Out: 708.508+/-0.118 $\chi^2$/NDF:700448.7/23

Right Out: 1068.985+/-0.269 $\chi^2$/NDF: 6706192.5/23

Left In: 714.168+/-0.119 $\chi^2$/NDF:497252.3/22

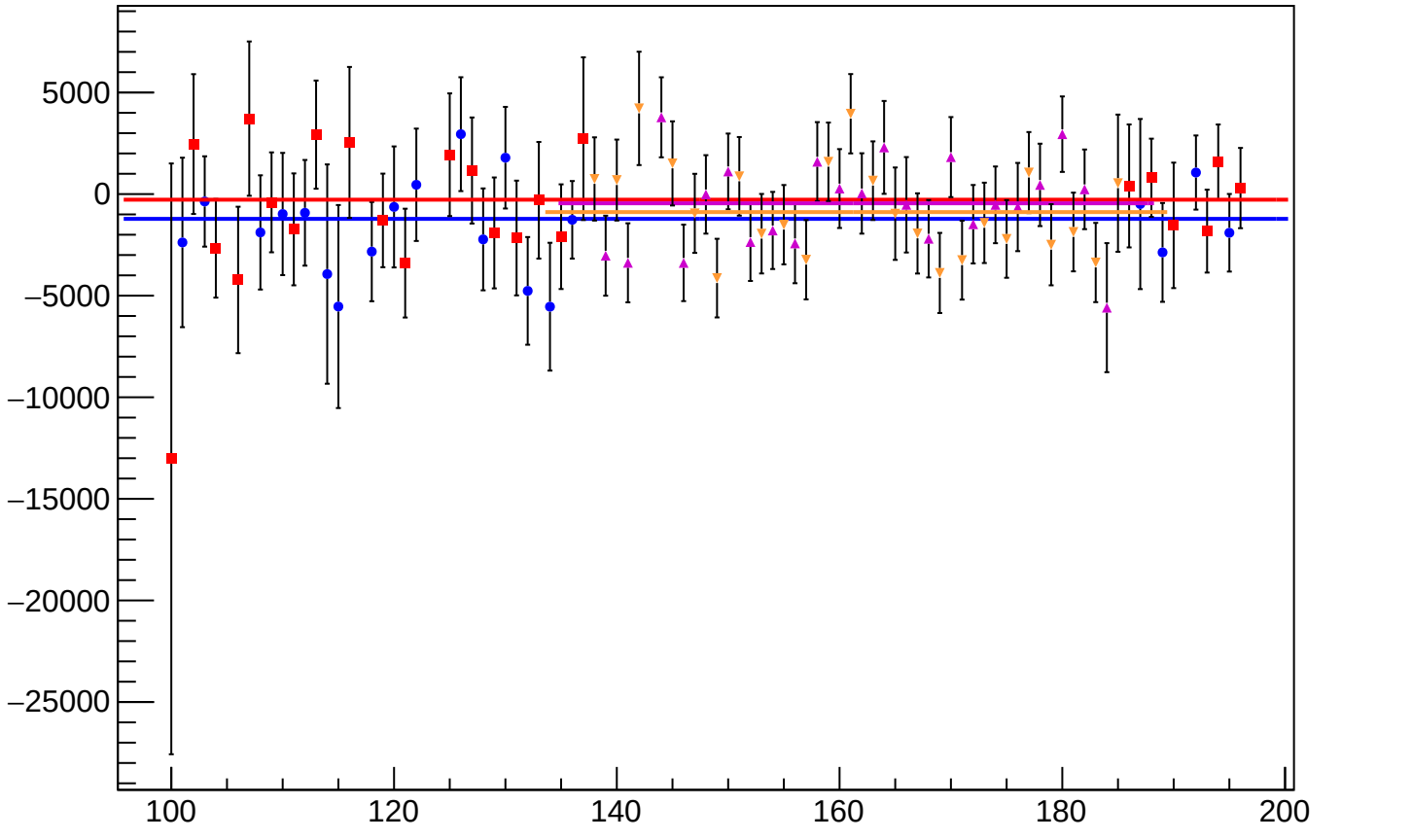
Left: 711.307+/-0.084 $\chi^2$/NDF: 1198844.2/46

Right: 1128.265+/-0.202 $\chi^2$/NDF: 10582537.2/43

In: 779.221+/-0.111 $\chi^2$/NDF:6512485.4/42

Out: 766.403+/-0.108 $\chi^2$/NDF:8913173.6/47

All: 772.636+/-0.077 $\chi^2$/NDF: 15432529.7/90




Right In: -1219.809+/-587.708 $\chi^2$/NDF: 11.8/19

Left Out: -886.354+/-413.227 $\chi^2$/NDF:28.1/23

Right Out: -275.771+/-545.145 $\chi^2$/NDF: 13.4/23

Left In: -453.237+/-416.200 $\chi^2$/NDF:25.8/22

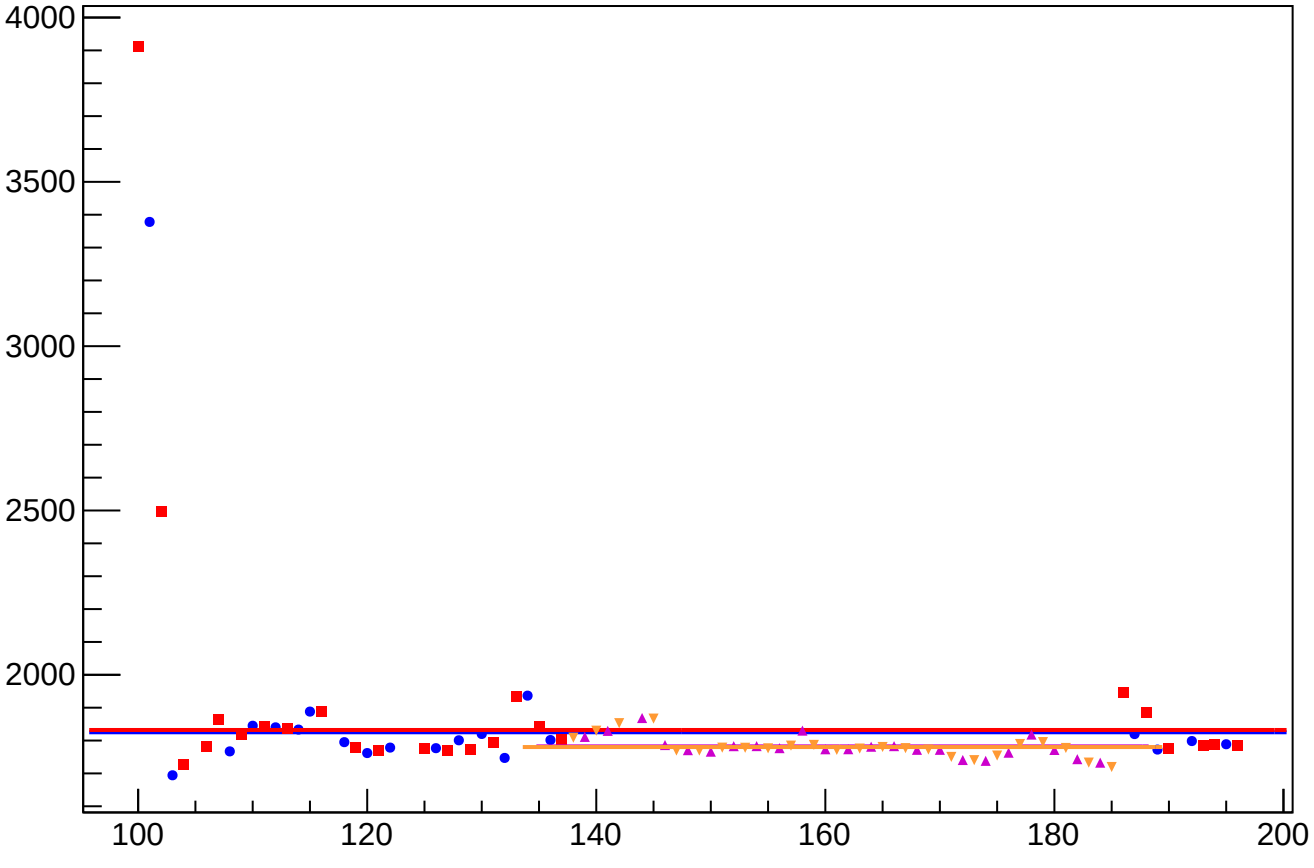
Left: -671.348+/-293.241 $\chi^2$/NDF: 54.5/46

Right: -712.371+/-399.677 $\chi^2$/NDF: 26.6/43

In: -709.276+/-339.655 $\chi^2$/NDF:38.8/42

Out: -663.545+/-329.311 $\chi^2$/NDF:42.4/47

All: -685.704+/-236.430 $\chi^2$/NDF: 81.1/90




Right In: 1825.172+/-0.416 $\chi^2$/NDF: 294784.5/19

Left Out: 1780.220+/-0.292 $\chi^2$/NDF:10380.2/23

Right Out: 1832.151+/-0.385 $\chi^2$/NDF: 136748.1/23

Left In: 1782.298+/-0.294 $\chi^2$/NDF:11232.1/22

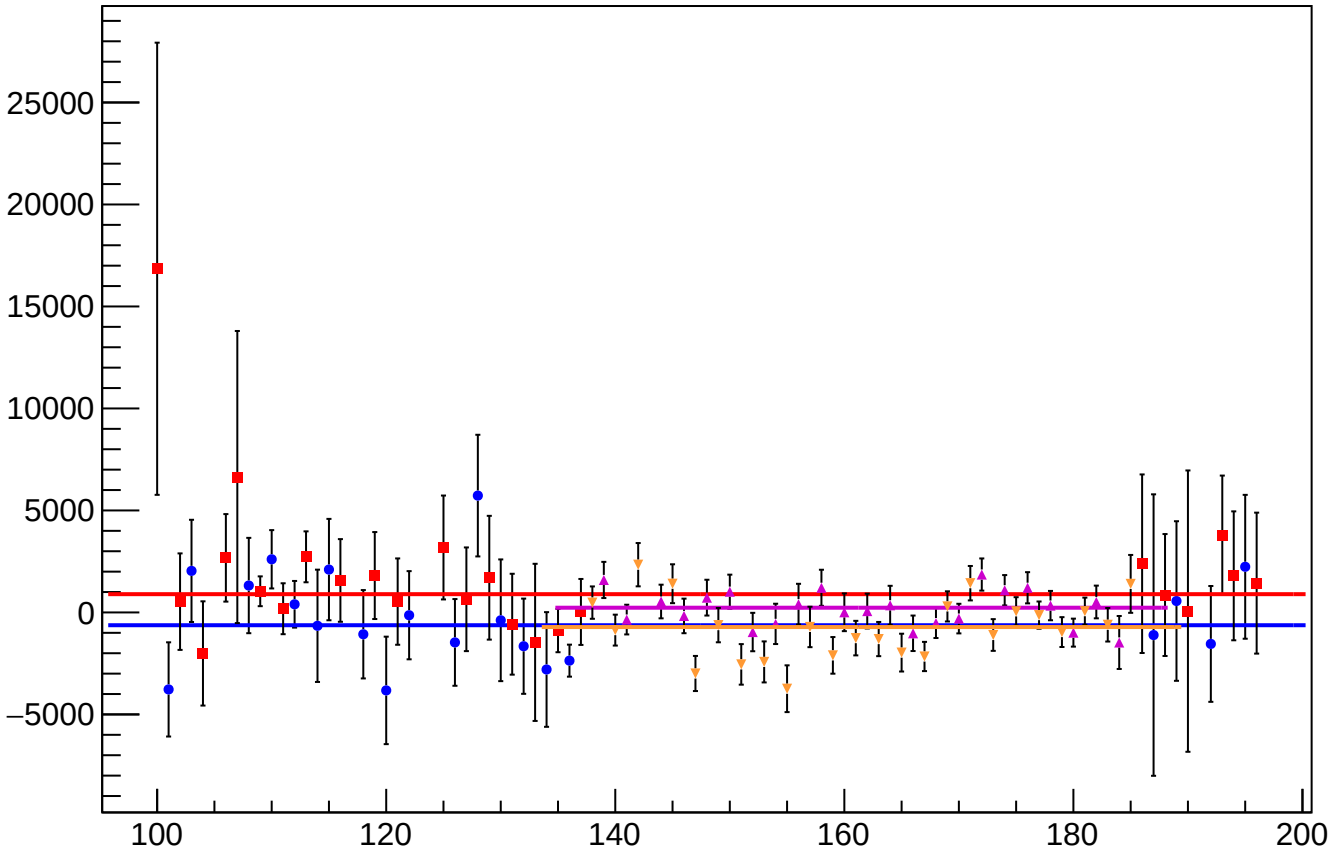
Left: 1781.252+/-0.207 $\chi^2$/NDF: 21637.4/46

Right: 1828.923+/-0.283 $\chi^2$/NDF: 431684.3/43

In: 1796.618+/-0.240 $\chi^2$/NDF:313105.3/42

Out: 1799.171+/-0.233 $\chi^2$/NDF:158654.6/47

All: 1797.934+/-0.167 $\chi^2$/NDF: 471818.1/90




Right In: -626.911+/-433.544 $\chi^2$/NDF: 23.6/19

Left Out: -716.600+/-170.602 $\chi^2$/NDF:59.4/23

Right Out: 895.553+/-382.787 $\chi^2$/NDF: 13.5/23

Left In: 231.320+/-173.436 $\chi^2$/NDF:24.1/22

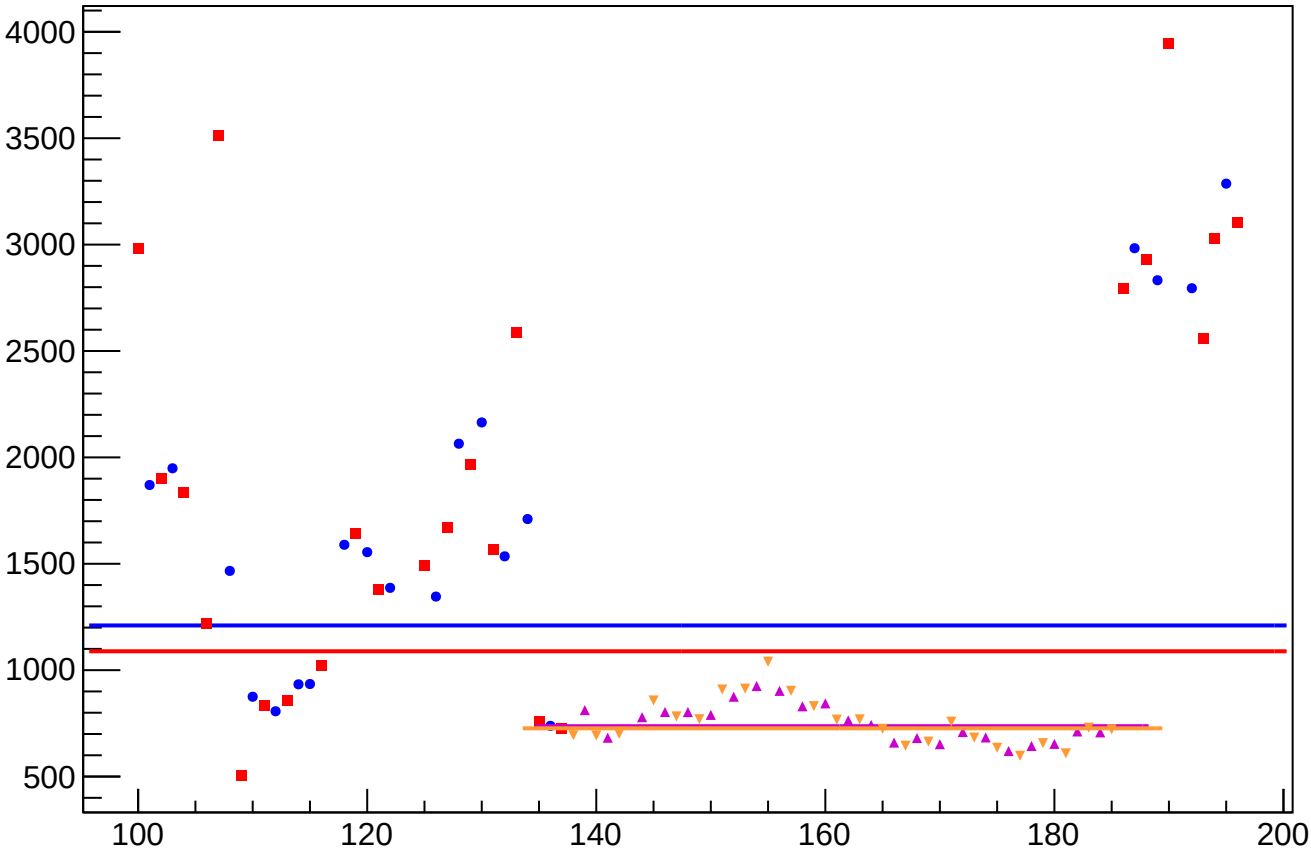
Left: -250.446+/-121.623 $\chi^2$/NDF: 98.6/46

Right: 228.619+/-286.947 $\chi^2$/NDF: 44.1/43

In: 112.922+/-161.029 $\chi^2$/NDF:51.1/42

Out: -449.438+/-155.827 $\chi^2$/NDF:87.7/47

All: -177.488+/-111.980 $\chi^2$/NDF: 145.0/90




Right In: 1210.140+/-0.307 $\chi^2$/NDF: 3868240.5/19

Left Out: 726.604+/-0.121 $\chi^2$/NDF:684784.1/23

Right Out: 1088.779+/-0.271 $\chi^2$/NDF: 6644933.1/23

Left In: 736.709+/-0.123 $\chi^2$/NDF:465041.6/22

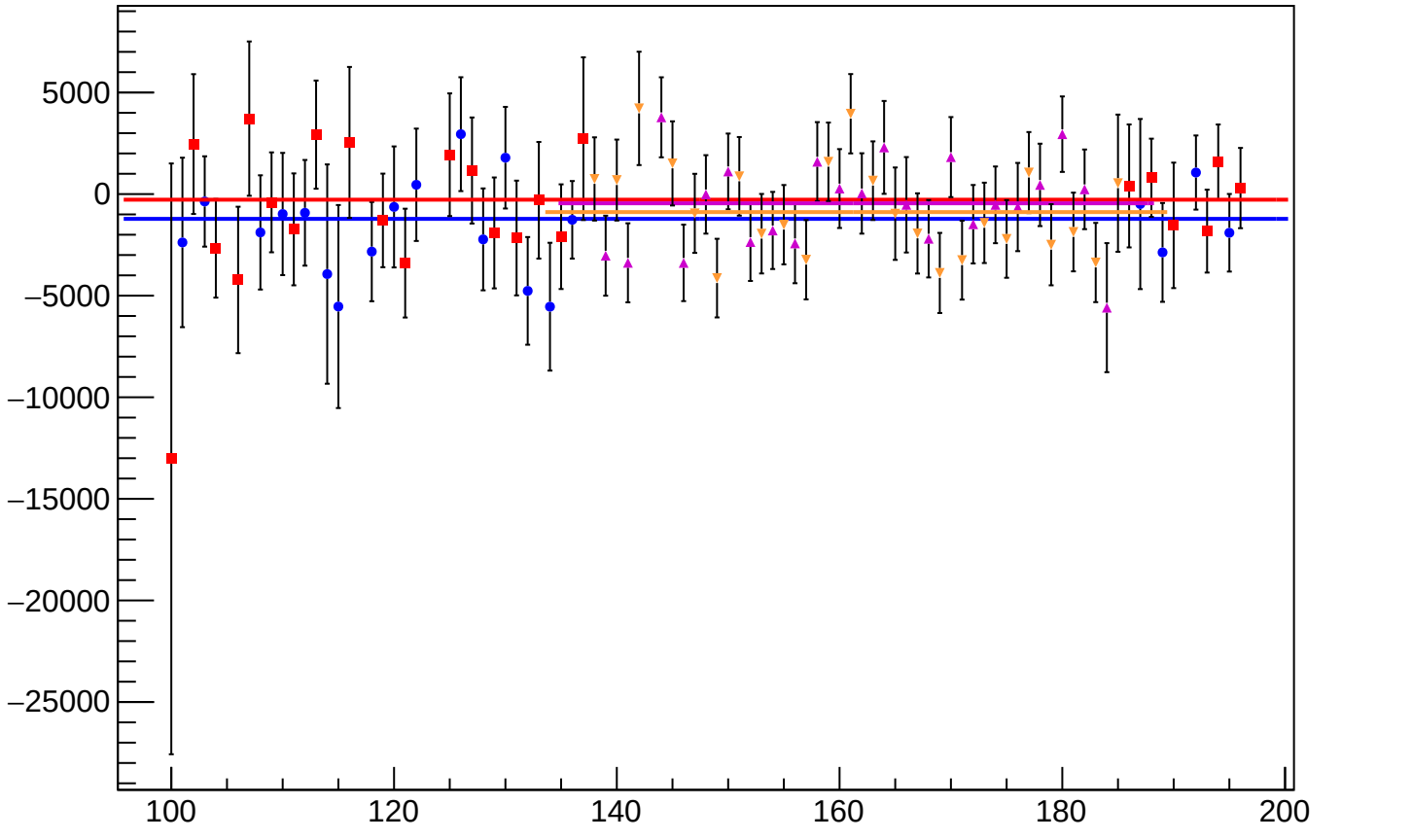
Left: 731.574+/-0.086 $\chi^2$/NDF: 1153276.2/46

Right: 1141.943+/-0.203 $\chi^2$/NDF: 10601239.6/43

In: 802.022+/-0.114 $\chi^2$/NDF:6389198.9/42

Out: 786.623+/-0.110 $\chi^2$/NDF:8823423.3/47

All: 794.070+/-0.079 $\chi^2$/NDF: 15222066.9/90




Right In: -1219.811+/-587.708 $\chi^2$/NDF: 11.8/19

Left Out: -886.352+/-413.227 $\chi^2$/NDF:28.1/23

Right Out: -275.771+/-545.145 $\chi^2$/NDF: 13.4/23

Left In: -453.236+/-416.200 $\chi^2$/NDF:25.8/22

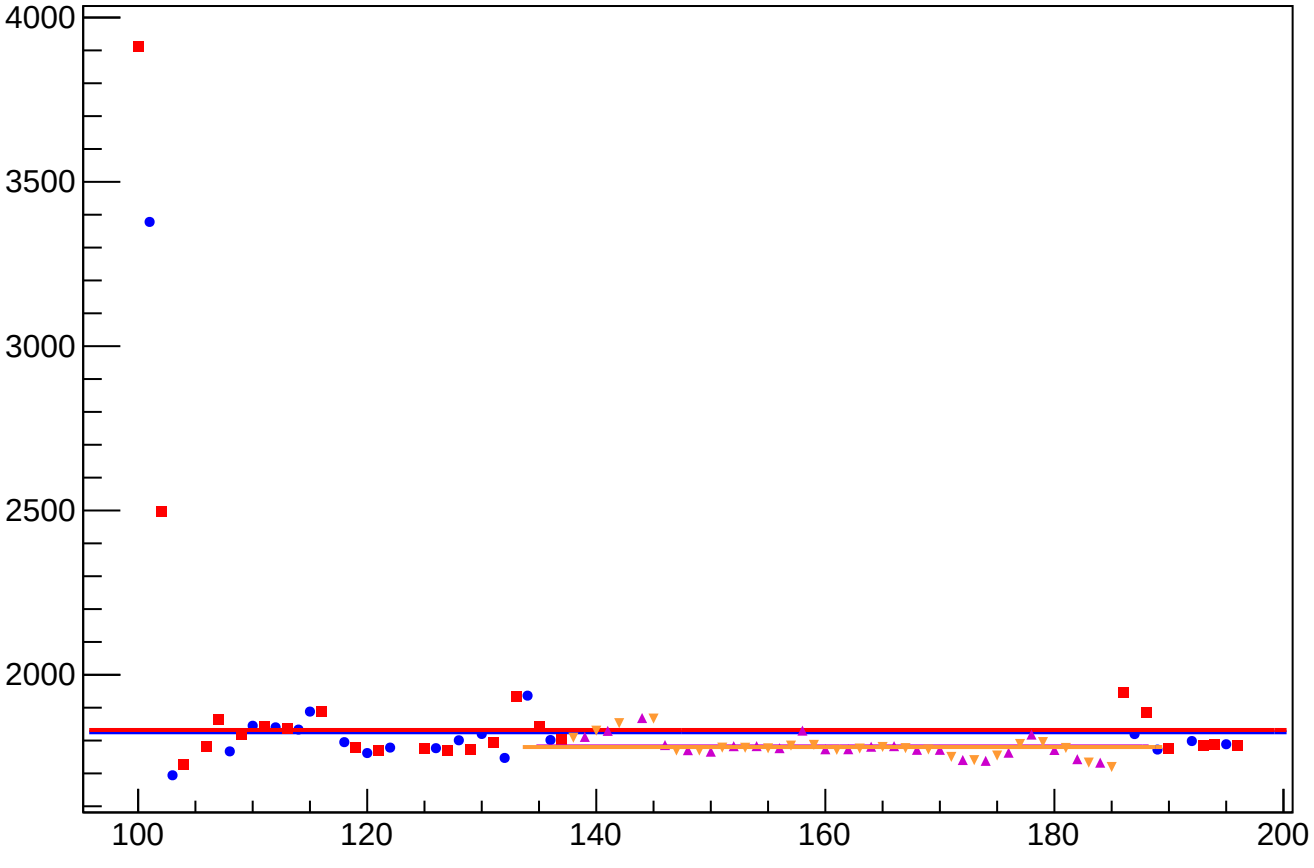
Left: -671.347+/-293.241 $\chi^2$/NDF: 54.5/46

Right: -712.372+/-399.677 $\chi^2$/NDF: 26.6/43

In: -709.276+/-339.655 $\chi^2$/NDF:38.8/42

Out: -663.545+/-329.311 $\chi^2$/NDF:42.4/47

All: -685.703+/-236.430 $\chi^2$/NDF: 81.1/90




Right In: 1825.172+/-0.416 $\chi^2$/NDF: 294784.5/19

Left Out: 1780.220+/-0.292 $\chi^2$/NDF:10380.2/23

Right Out: 1832.151+/-0.385 $\chi^2$/NDF: 136748.2/23

Left In: 1782.298+/-0.294 $\chi^2$/NDF:11232.1/22

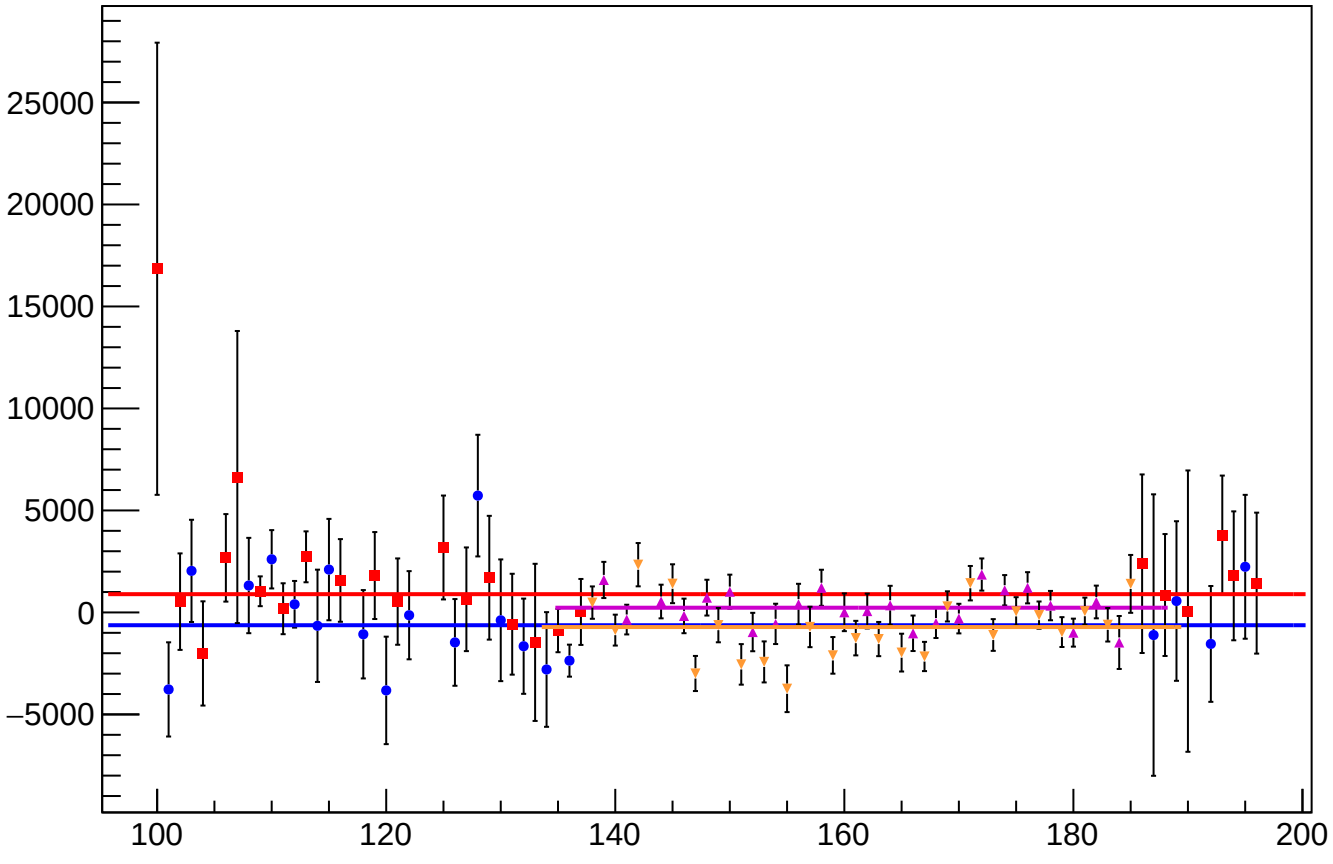
Left: 1781.252+/-0.207 $\chi^2$/NDF: 21637.4/46

Right: 1828.923+/-0.283 $\chi^2$/NDF: 431684.3/43

In: 1796.618+/-0.240 $\chi^2$/NDF:313105.3/42

Out: 1799.171+/-0.233 $\chi^2$/NDF:158654.8/47

All: 1797.934+/-0.167 $\chi^2$/NDF: 471818.3/90




Right In: -626.899+/-433.545 $\chi^2$/NDF: 23.6/19

Left Out: -716.601+/-170.602 $\chi^2$/NDF:59.4/23

Right Out: 895.559+/-382.788 $\chi^2$/NDF: 13.5/23

Left In: 231.318+/-173.435 $\chi^2$/NDF:24.1/22

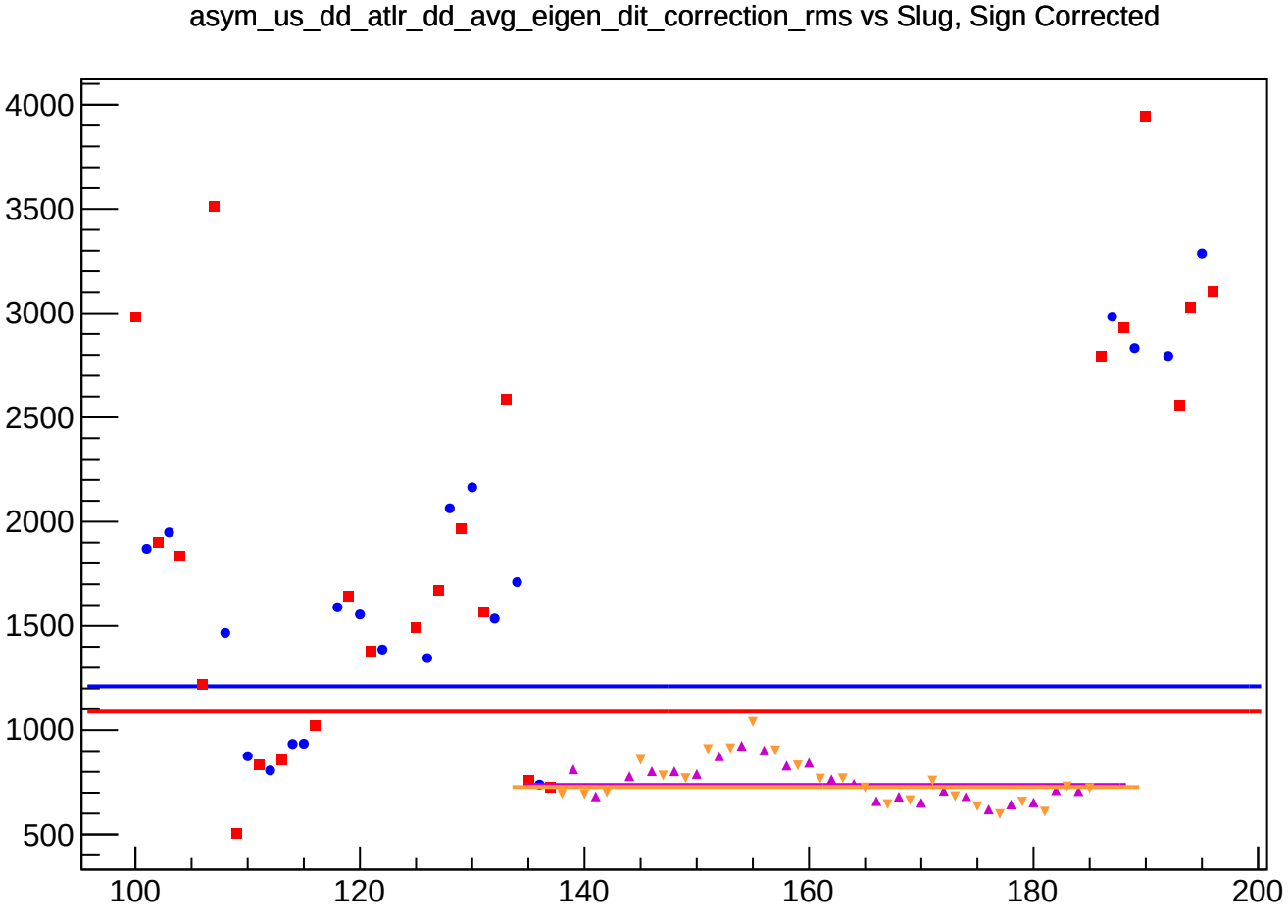
Left: -250.447+/-121.623 $\chi^2$/NDF: 98.6/46

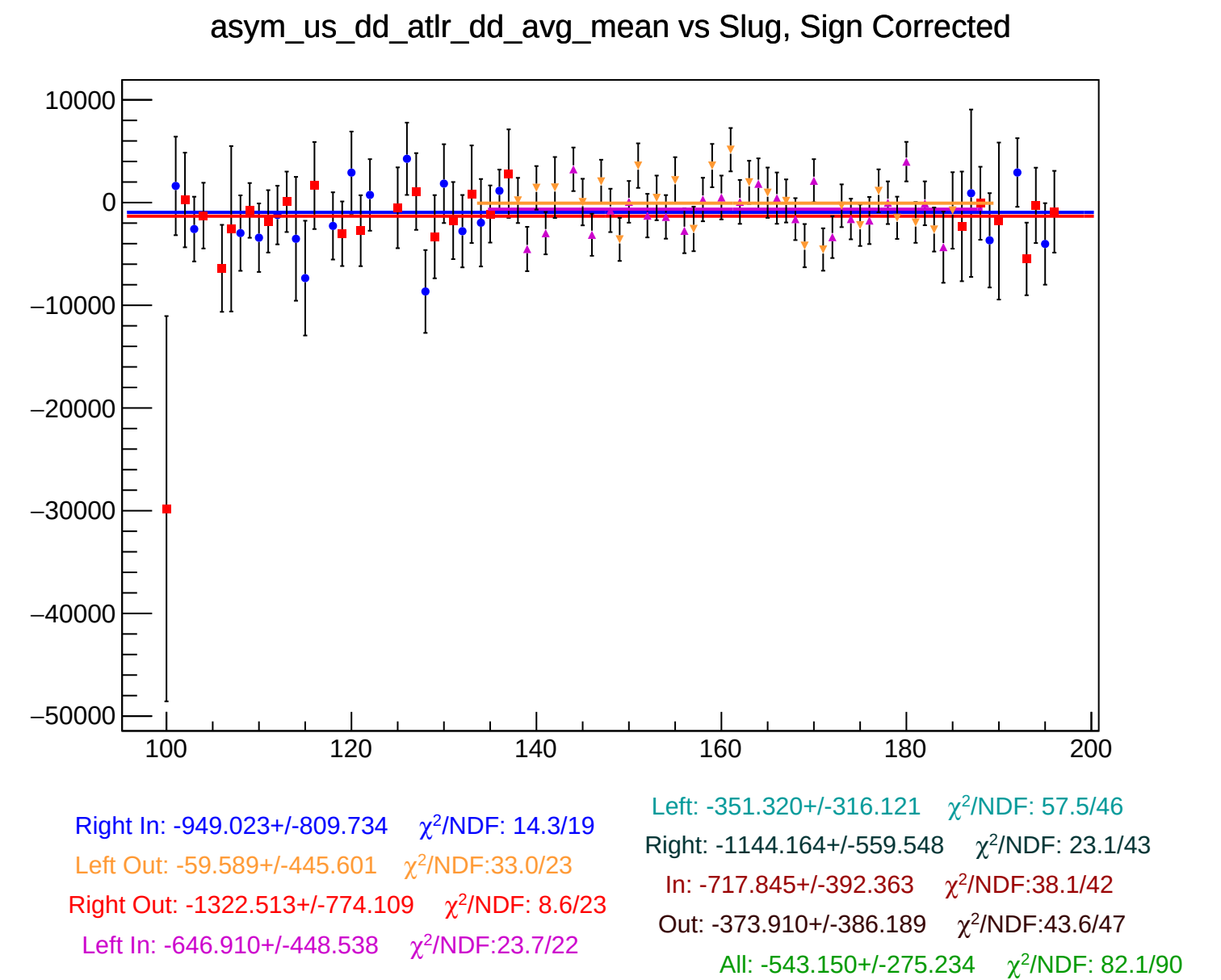
Right: 228.628+/-286.947 $\chi^2$/NDF: 44.1/43

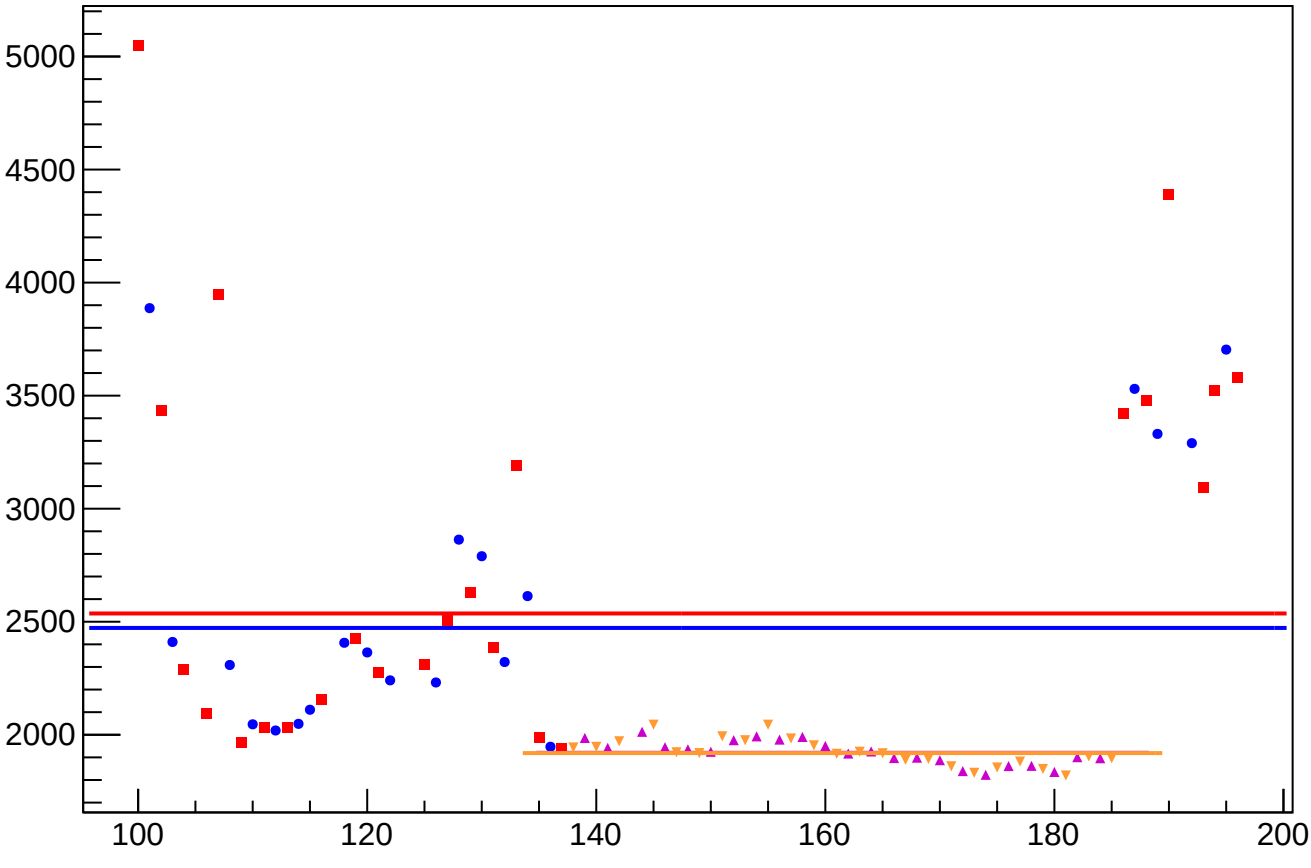
In: 112.923+/-161.029 $\chi^2$/NDF:51.1/42

Out: -449.438+/-155.827 $\chi^2$/NDF:87.7/47

All: -177.487+/-111.980 $\chi^2$/NDF: 145.0/90


asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 1210.143+/-0.307 χ²/NDF: 3868192.6/19
Left Out: 726.605+/-0.121 χ²/NDF:684780.2/23
Right Out: 1088.782+/-0.271 χ²/NDF: 6644894.1/23
Left In: 736.709+/-0.123 χ²/NDF:465053.4/22
Left: 731.574+/-0.086 χ²/NDF: 1153283.6/46
Right: 1141.946+/-0.203 χ²/NDF: 10601153.1/43
In: 802.021+/-0.114 χ²/NDF:6389190.5/42
Out: 786.624+/-0.110 χ²/NDF:8823396.5/47
All: 794.070+/-0.079 χ²/NDF: 15222030.6/90


asym_us_dd_atlr_dd_avg_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -949.023+/-809.734 χ²/NDF: 14.3/19
Left Out: -59.589+/-445.601 χ²/NDF:33.0/23
Right Out: -1322.513+/-774.109 χ²/NDF: 8.6/23
Left In: -646.910+/-448.538 χ²/NDF:23.7/22
Left: -351.320+/-316.121 χ²/NDF: 57.5/46
Right: -1144.164+/-559.548 χ²/NDF: 23.1/43
In: -717.845+/-392.363 χ²/NDF:38.1/42
Out: -373.910+/-386.189 χ²/NDF:43.6/47
All: -543.150+/-275.234 χ²/NDF: 82.1/90




Right In: 2472.583+/-0.573 $\chi^2$/NDF: 884558.8/19

Left Out: 1918.975+/-0.315 $\chi^2$/NDF:35574.5/23

Right Out: 2536.567+/-0.547 $\chi^2$/NDF: 1254282.9/23

Left In: 1920.214+/-0.317 $\chi^2$/NDF:29912.0/22

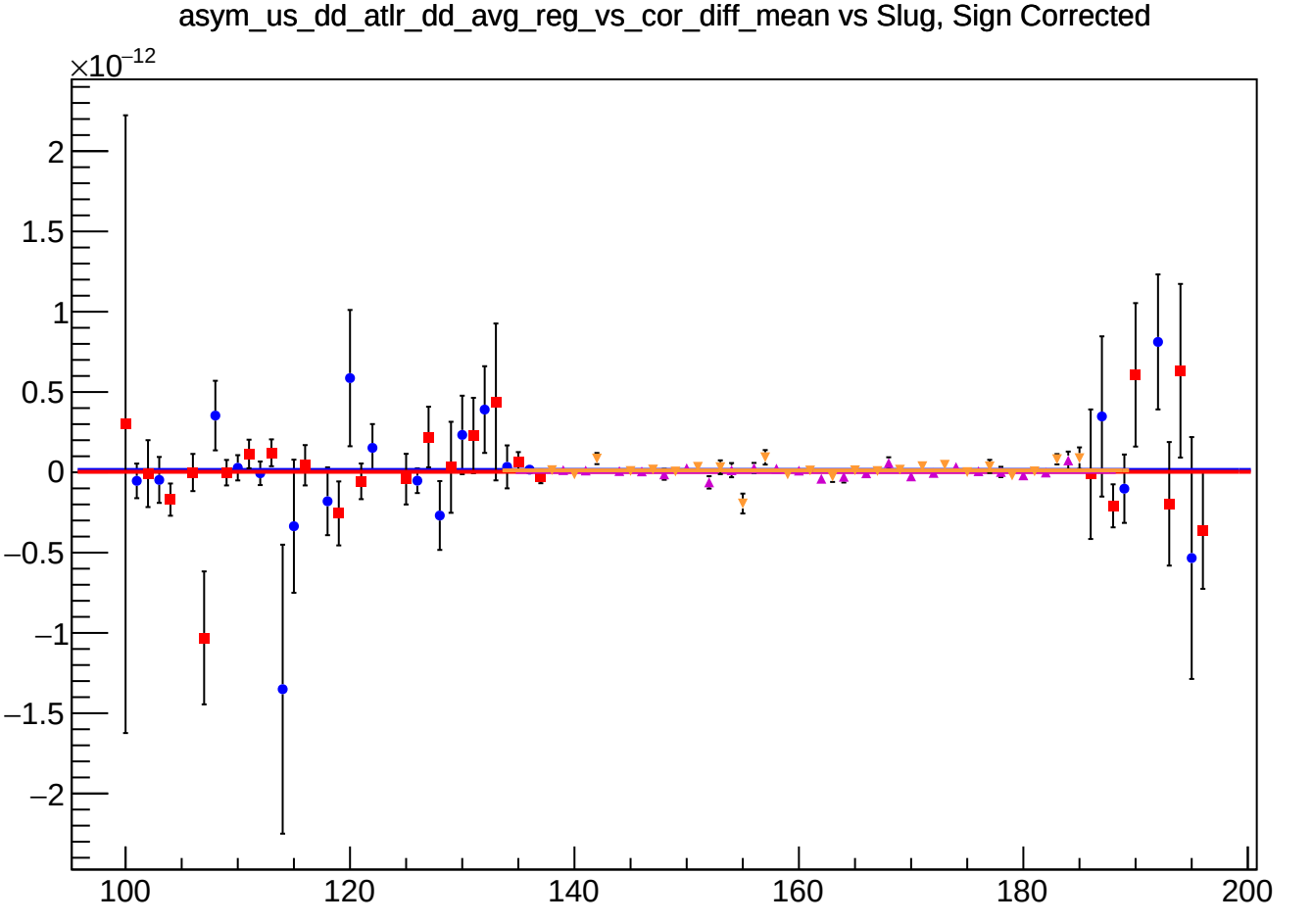
Left: 1919.591+/-0.224 $\chi^2$/NDF: 65494.2/46

Right: 2506.014+/-0.396 $\chi^2$/NDF: 2145366.5/43

In: 2049.909+/-0.277 $\chi^2$/NDF:1626638.8/42

Out: 2072.685+/-0.273 $\chi^2$/NDF:2246041.2/47

All: 2061.478+/-0.195 $\chi^2$/NDF: 3876103.1/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:38.1/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 26.5/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 59.3/46

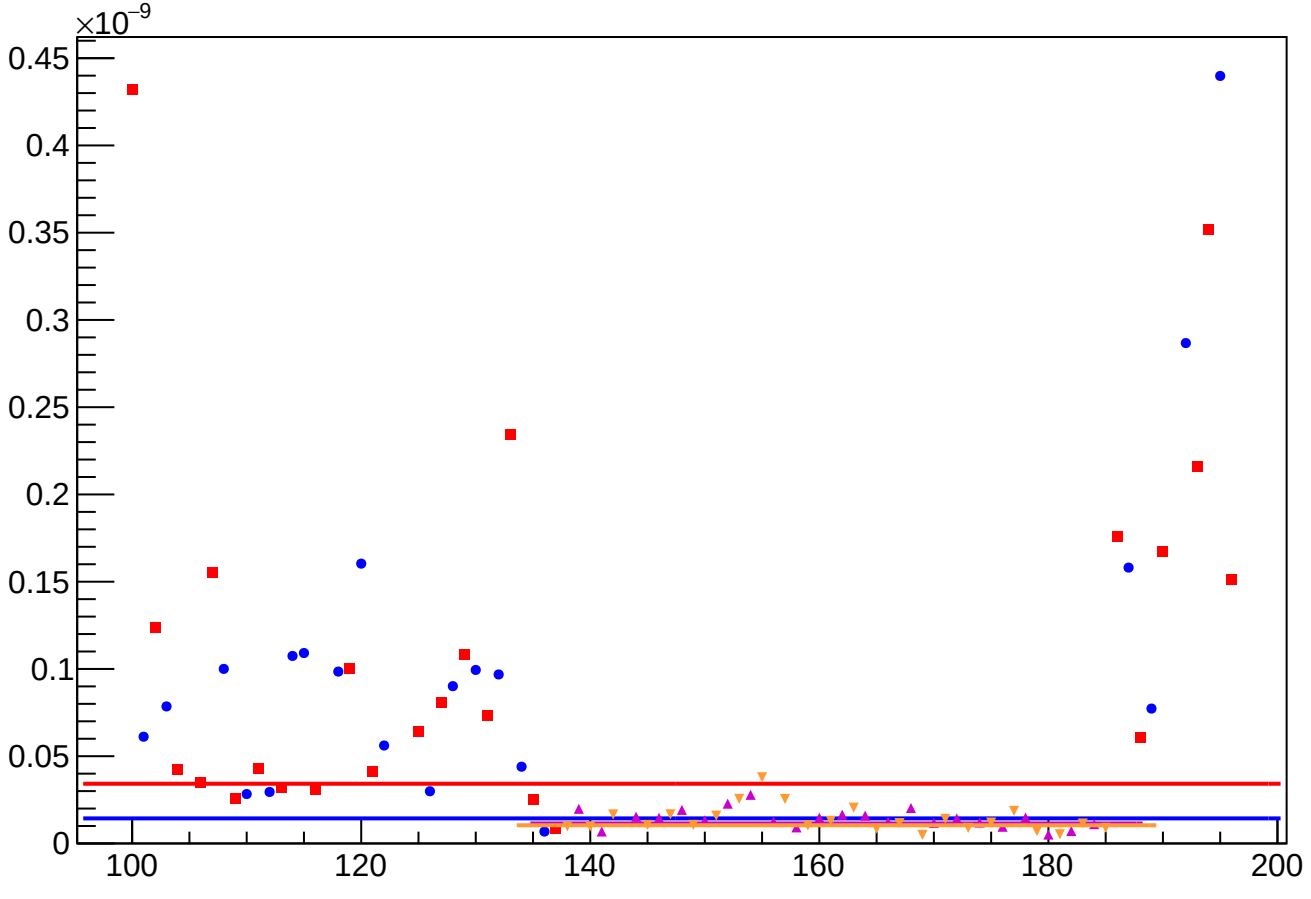
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.6/43

In: 0.000+/-0.000 $\chi^2$/NDF:40.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:64.8/47

All: 0.000+/-0.000 $\chi^2$/NDF: 106.0/90

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5242391.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2075235.5/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4241808.3/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:1894438.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4014682.3/46

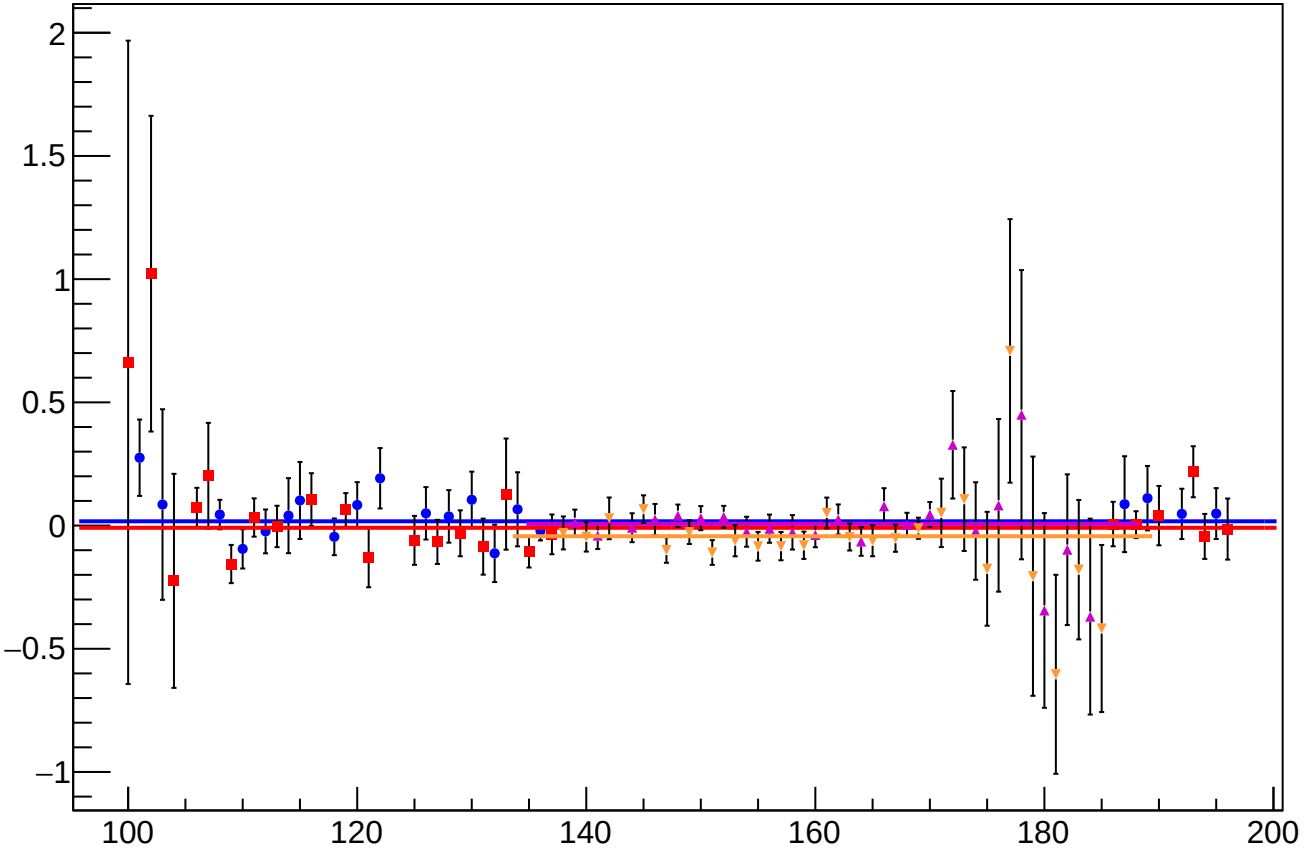
Right: 0.000+/-0.000 $\chi^2$/NDF: 10538793.1/43

In: 0.000+/-0.000 $\chi^2$/NDF:7213461.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8284873.5/47

All: 0.000+/-0.000 $\chi^2$/NDF: 15507839.7/90

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.021 $\chi^2$/NDF: 12.6/19

Left Out: -0.043+/-0.014 $\chi^2$/NDF:18.9/23

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 21.5/23

Left In: 0.007+/-0.014 $\chi^2$/NDF:11.3/22

Left: -0.018+/-0.010 $\chi^2$/NDF: 36.8/46

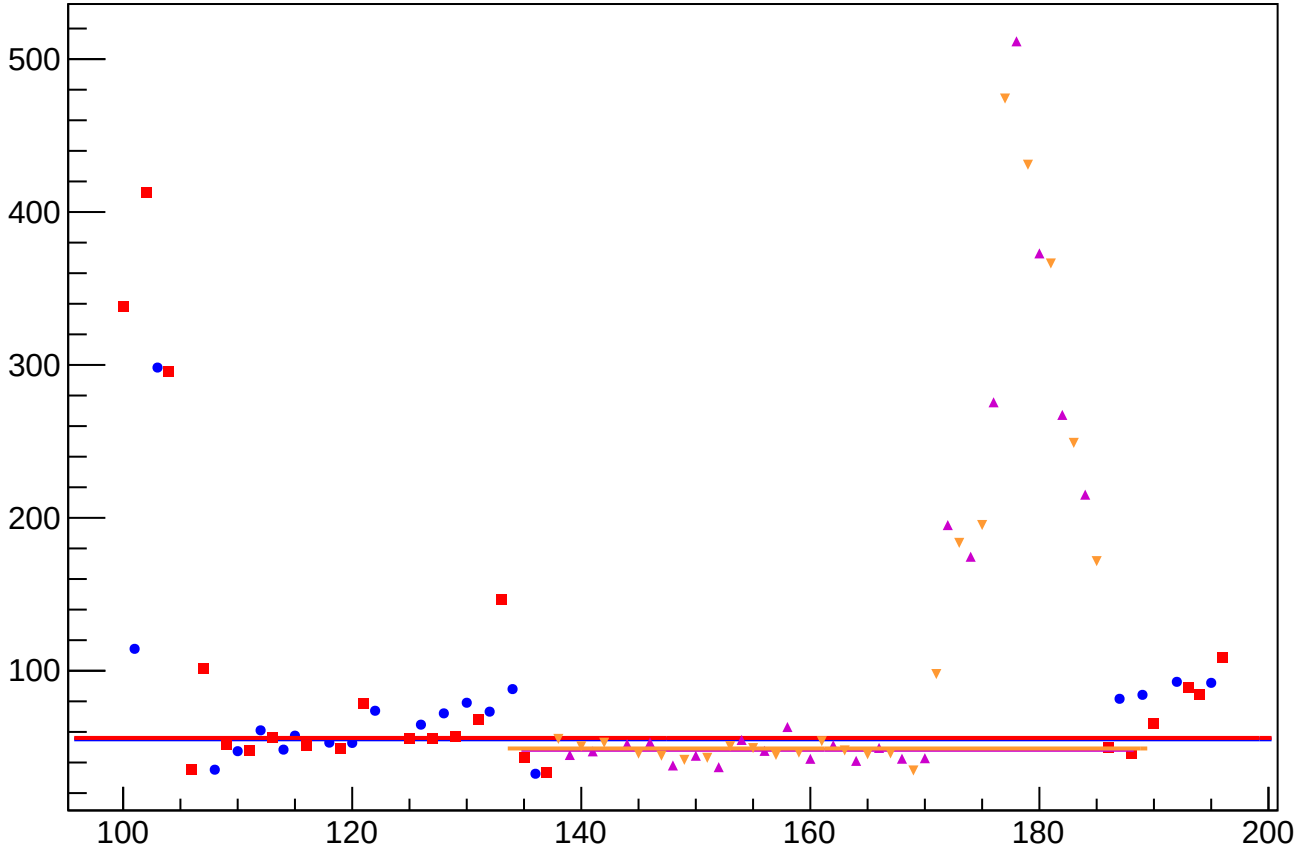
Right: 0.003+/-0.014 $\chi^2$/NDF: 35.1/43

In: 0.010+/-0.011 $\chi^2$/NDF:24.1/42

Out: -0.032+/-0.011 $\chi^2$/NDF:42.5/47

All: -0.011+/-0.008 $\chi^2$/NDF: 73.3/90

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.177+/-0.015 $\chi^2$/NDF: 3015231.4/19

Left Out: 49.180+/-0.010 $\chi^2$/NDF:7250092.4/23

Right Out: 56.076+/-0.014 $\chi^2$/NDF: 3106208.4/23

Left In: 48.307+/-0.010 $\chi^2$/NDF:7040663.5/22

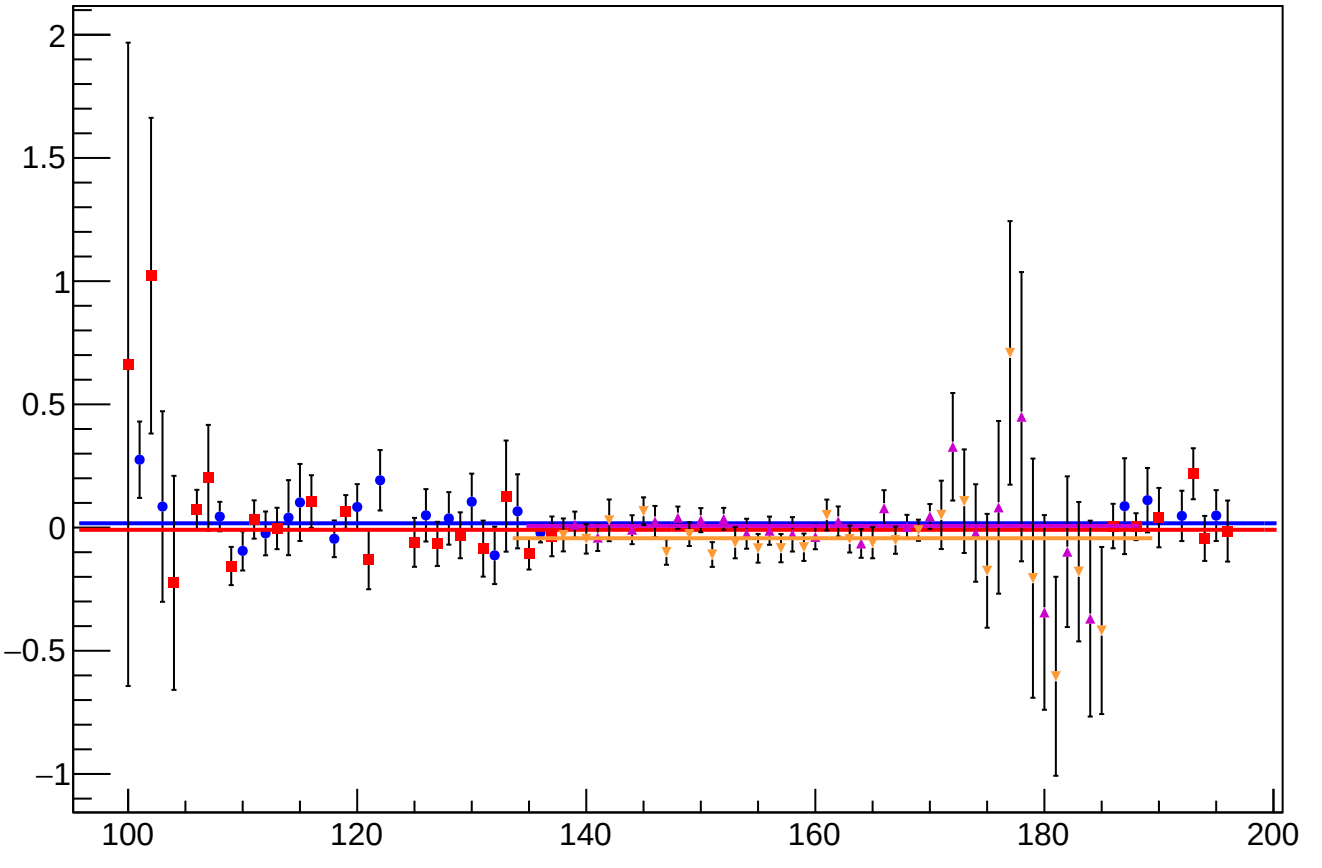
Left: 48.731+/-0.007 $\chi^2$/NDF: 14294810.2/46

Right: 55.654+/-0.010 $\chi^2$/NDF: 6123467.6/43

In: 50.381+/-0.008 $\chi^2$/NDF:10211747.8/42

Out: 51.532+/-0.008 $\chi^2$/NDF:10524054.5/47

All: 50.957+/-0.006 $\chi^2$/NDF: 20746194.7/90




Right In: 0.017+/-0.021 $\chi^2$/NDF: 12.6/19

Left Out: -0.043+/-0.014 $\chi^2$/NDF:18.9/23

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 21.5/23

Left In: 0.007+/-0.014 $\chi^2$/NDF:11.3/22

Left: -0.018+/-0.010 $\chi^2$/NDF: 36.8/46

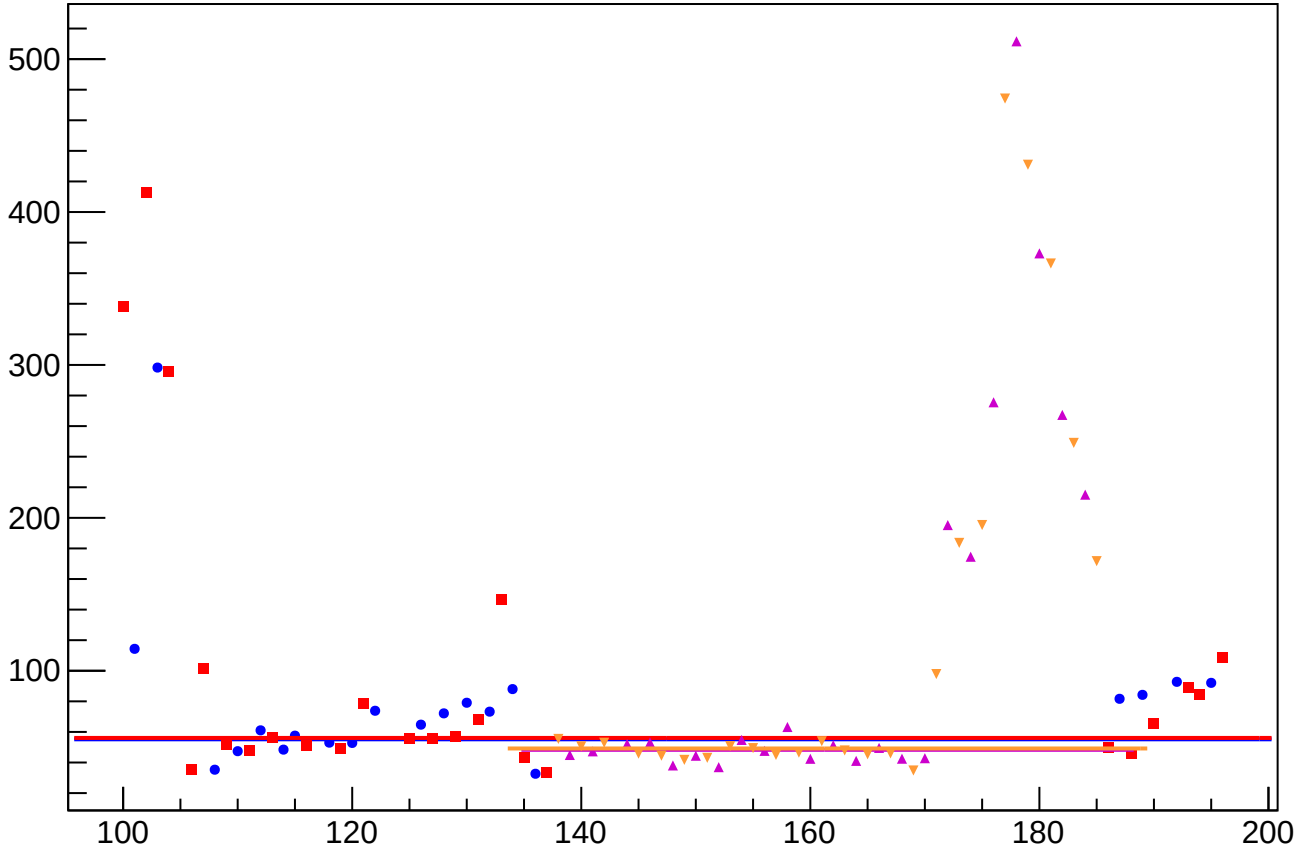
Right: 0.003+/-0.014 $\chi^2$/NDF: 35.1/43

In: 0.010+/-0.011 $\chi^2$/NDF:24.1/42

Out: -0.032+/-0.011 $\chi^2$/NDF:42.5/47

All: -0.011+/-0.008 $\chi^2$/NDF: 73.3/90

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.177+/-0.015 $\chi^2$/NDF: 3015231.4/19

Left Out: 49.180+/-0.010 $\chi^2$/NDF:7250092.4/23

Right Out: 56.076+/-0.014 $\chi^2$/NDF: 3106208.4/23

Left In: 48.307+/-0.010 $\chi^2$/NDF:7040663.5/22

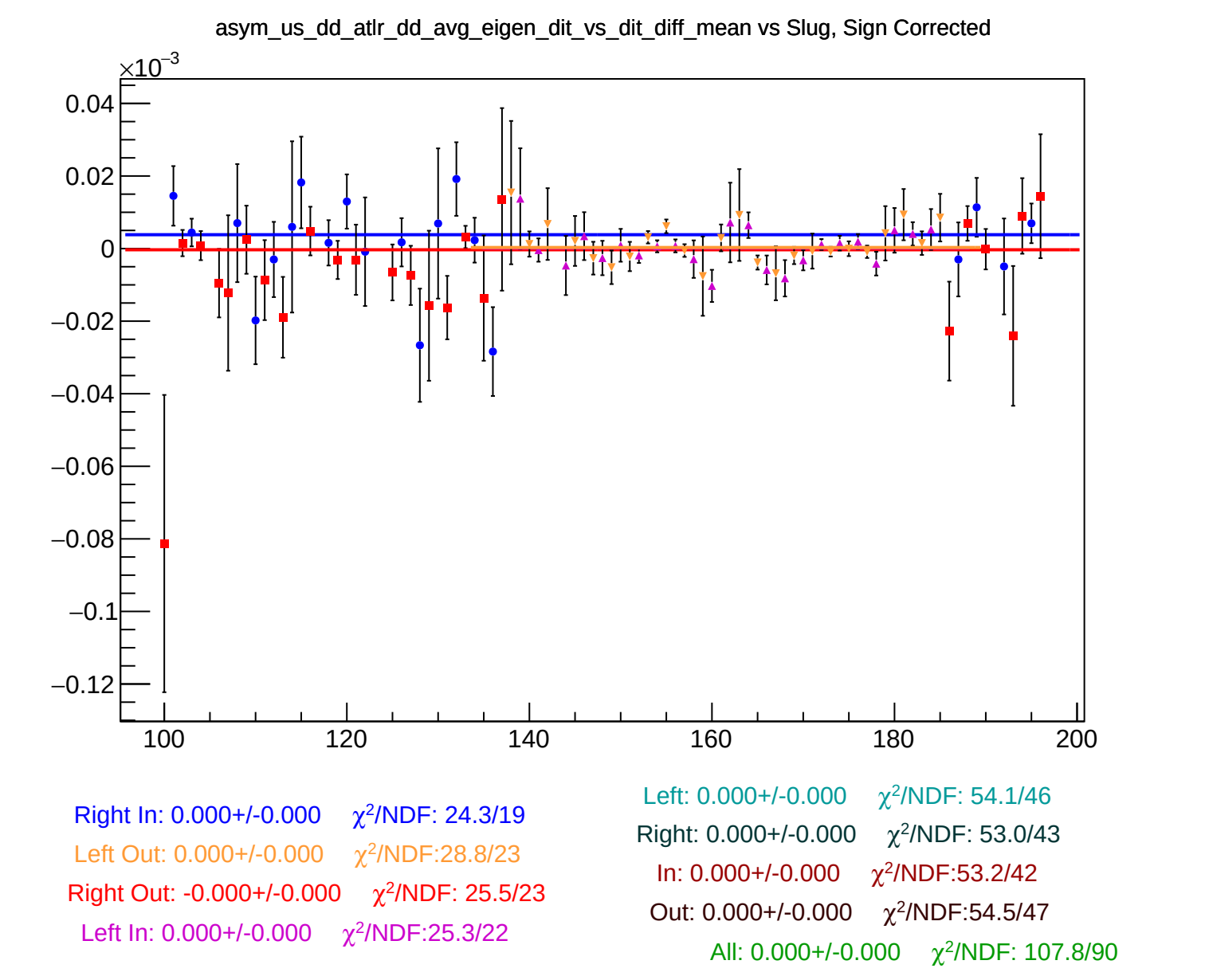
Left: 48.731+/-0.007 $\chi^2$/NDF: 14294810.2/46

Right: 55.654+/-0.010 $\chi^2$/NDF: 6123467.6/43

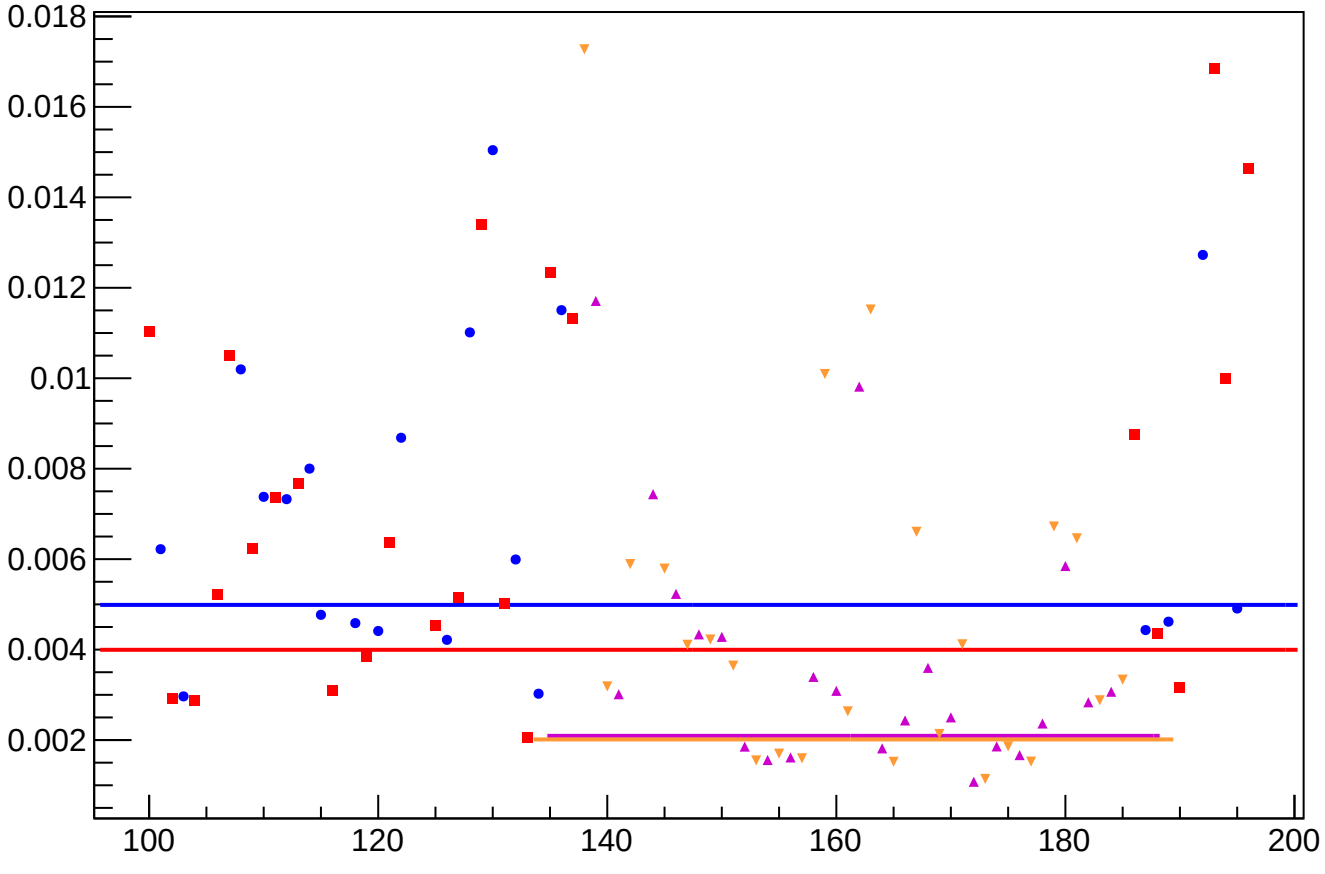
In: 50.381+/-0.008 $\chi^2$/NDF:10211747.8/42

Out: 51.532+/-0.008 $\chi^2$/NDF:10524054.5/47

All: 50.957+/-0.006 $\chi^2$/NDF: 20746194.7/90


asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 24.3/19
Left Out: 0.000+/-0.000 χ²/NDF:28.8/23
Right Out: -0.000+/-0.000 χ²/NDF: 25.5/23
Left In: 0.000+/-0.000 χ²/NDF:25.3/22
Left: 0.000+/-0.000 χ²/NDF: 54.1/46
Right: 0.000+/-0.000 χ²/NDF: 53.0/43
In: 0.000+/-0.000 χ²/NDF:53.2/42
Out: 0.000+/-0.000 χ²/NDF:54.5/47
All: 0.000+/-0.000 χ²/NDF: 107.8/90

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 3448721.5/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:10262318.5/23

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 5835140.0/23

Left In: 0.002+/-0.000 $\chi^2$/NDF:7141979.6/22

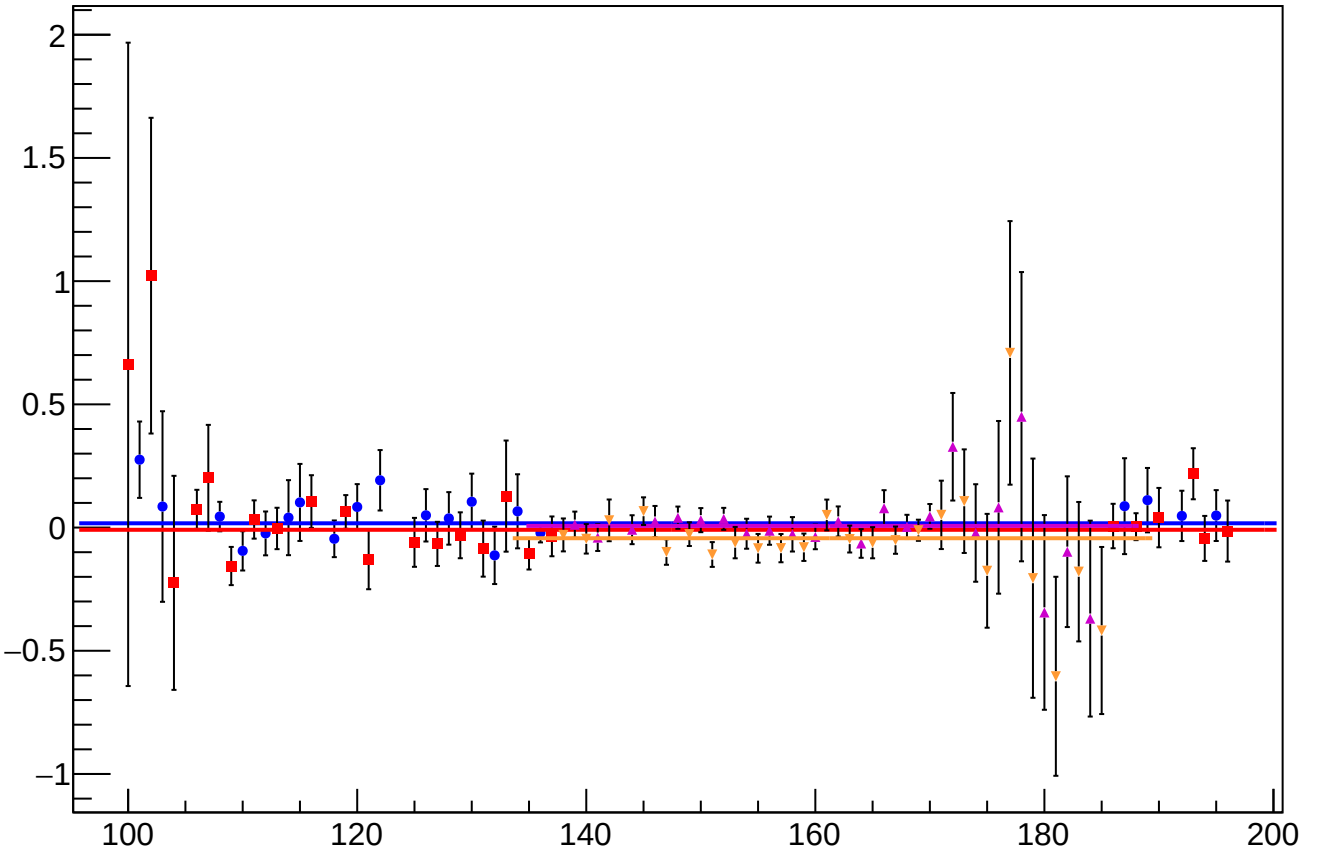
Left: 0.002+/-0.000 $\chi^2$/NDF: 17422562.9/46

Right: 0.004+/-0.000 $\chi^2$/NDF: 9650998.0/43

In: 0.002+/-0.000 $\chi^2$/NDF:15054606.6/42

Out: 0.002+/-0.000 $\chi^2$/NDF:19506709.9/47

All: 0.002+/-0.000 $\chi^2$/NDF: 34587019.8/90




Right In: 0.017+/-0.021 $\chi^2$/NDF: 12.6/19

Left Out: -0.043+/-0.014 $\chi^2$/NDF:18.9/23

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 21.5/23

Left In: 0.007+/-0.014 $\chi^2$/NDF:11.3/22

Left: -0.018+/-0.010 $\chi^2$/NDF: 36.8/46

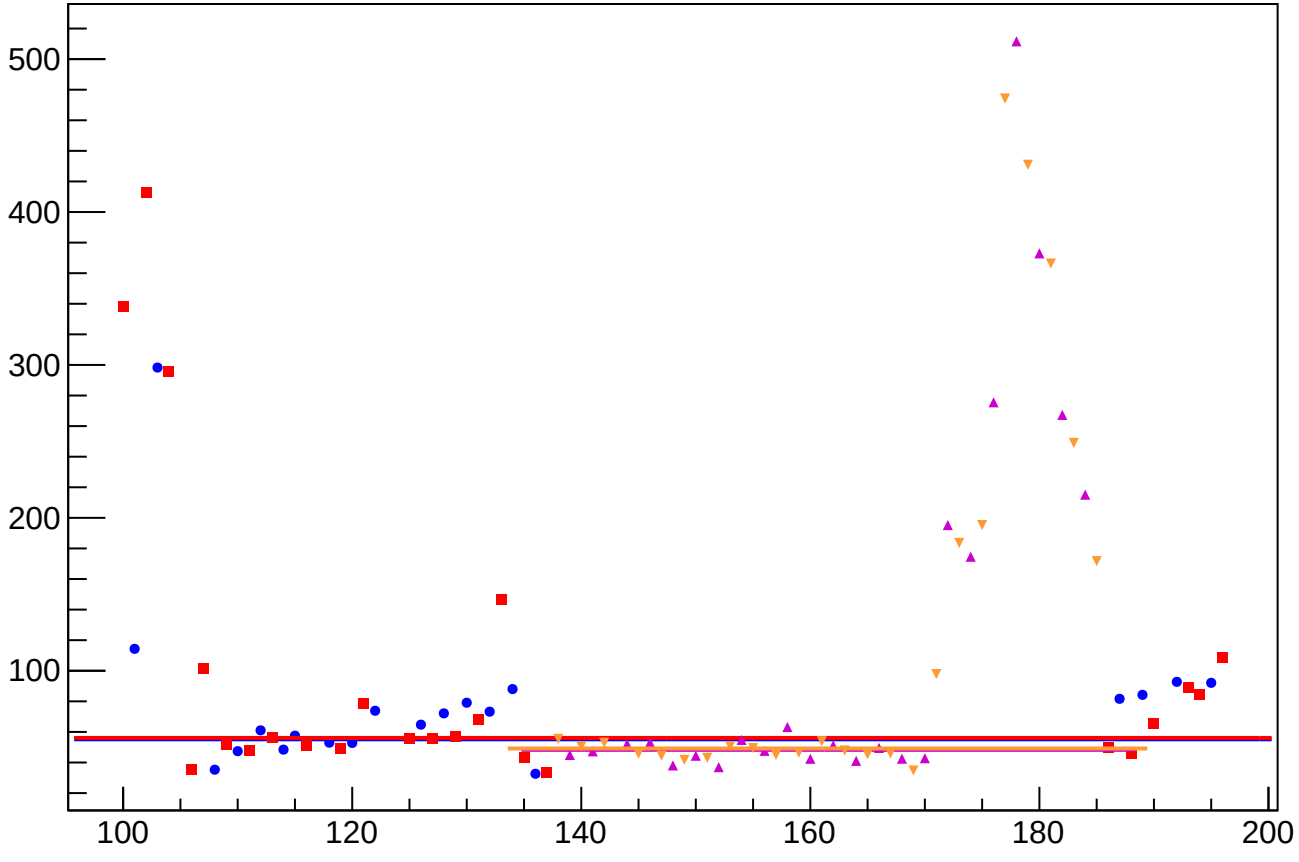
Right: 0.003+/-0.014 $\chi^2$/NDF: 35.1/43

In: 0.010+/-0.011 $\chi^2$/NDF:24.1/42

Out: -0.032+/-0.011 $\chi^2$/NDF:42.5/47

All: -0.011+/-0.008 $\chi^2$/NDF: 73.3/90

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.177+/-0.015 $\chi^2$/NDF: 3015064.9/19

Left Out: 49.180+/-0.010 $\chi^2$/NDF:7250102.5/23

Right Out: 56.076+/-0.014 $\chi^2$/NDF: 3106054.6/23

Left In: 48.307+/-0.010 $\chi^2$/NDF:7040585.4/22

Left: 48.731+/-0.007 $\chi^2$/NDF: 14294736.5/46

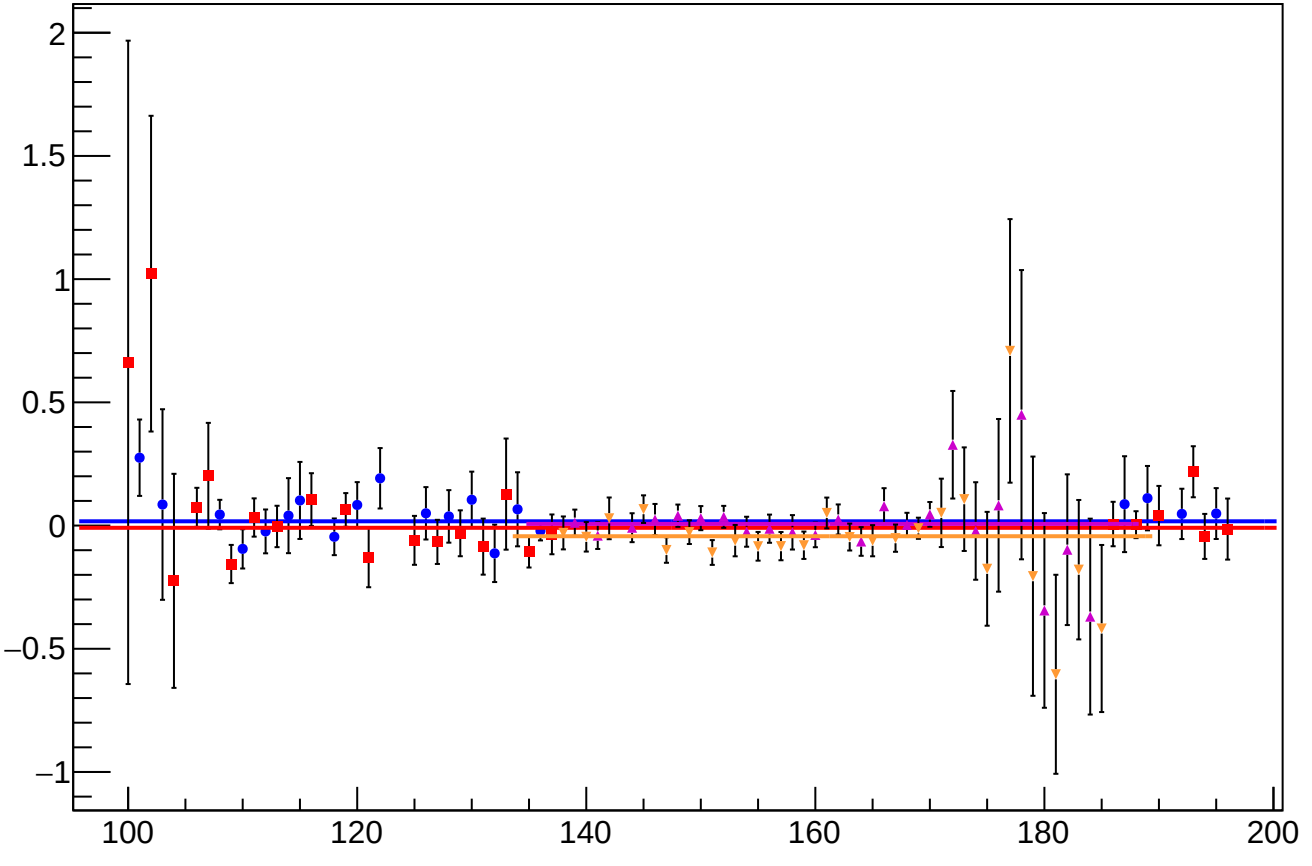
Right: 55.655+/-0.010 $\chi^2$/NDF: 6123148.5/43

In: 50.381+/-0.008 $\chi^2$/NDF:10211507.5/42

Out: 51.532+/-0.008 $\chi^2$/NDF:10523957.9/47

All: 50.957+/-0.006 $\chi^2$/NDF: 20745851.6/90

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.017+/-0.021 $\chi^2$/NDF: 12.6/19

Left Out: -0.043+/-0.014 $\chi^2$/NDF:18.9/23

Right Out: -0.009+/-0.019 $\chi^2$/NDF: 21.5/23

Left In: 0.007+/-0.014 $\chi^2$/NDF:11.3/22

Left: -0.018+/-0.010 $\chi^2$/NDF: 36.8/46

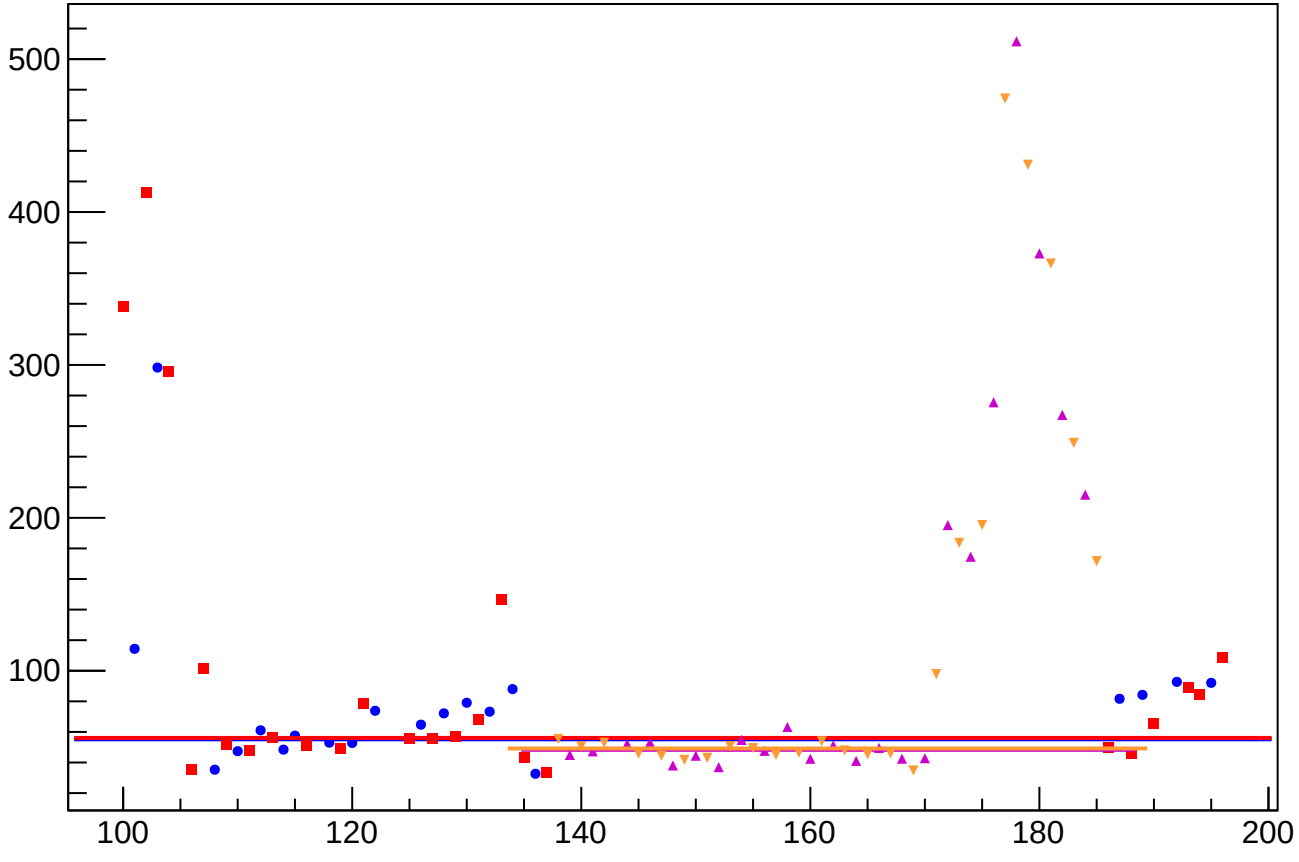
Right: 0.003+/-0.014 $\chi^2$/NDF: 35.1/43

In: 0.010+/-0.011 $\chi^2$/NDF:24.1/42

Out: -0.032+/-0.011 $\chi^2$/NDF:42.5/47

All: -0.011+/-0.008 $\chi^2$/NDF: 73.3/90

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.177+/-0.015 $\chi^2$/NDF: 3015064.9/19

Left Out: 49.180+/-0.010 $\chi^2$/NDF:7250102.5/23

Right Out: 56.076+/-0.014 $\chi^2$/NDF: 3106054.6/23

Left In: 48.307+/-0.010 $\chi^2$/NDF:7040585.4/22

Left: 48.731+/-0.007 $\chi^2$/NDF: 14294736.5/46

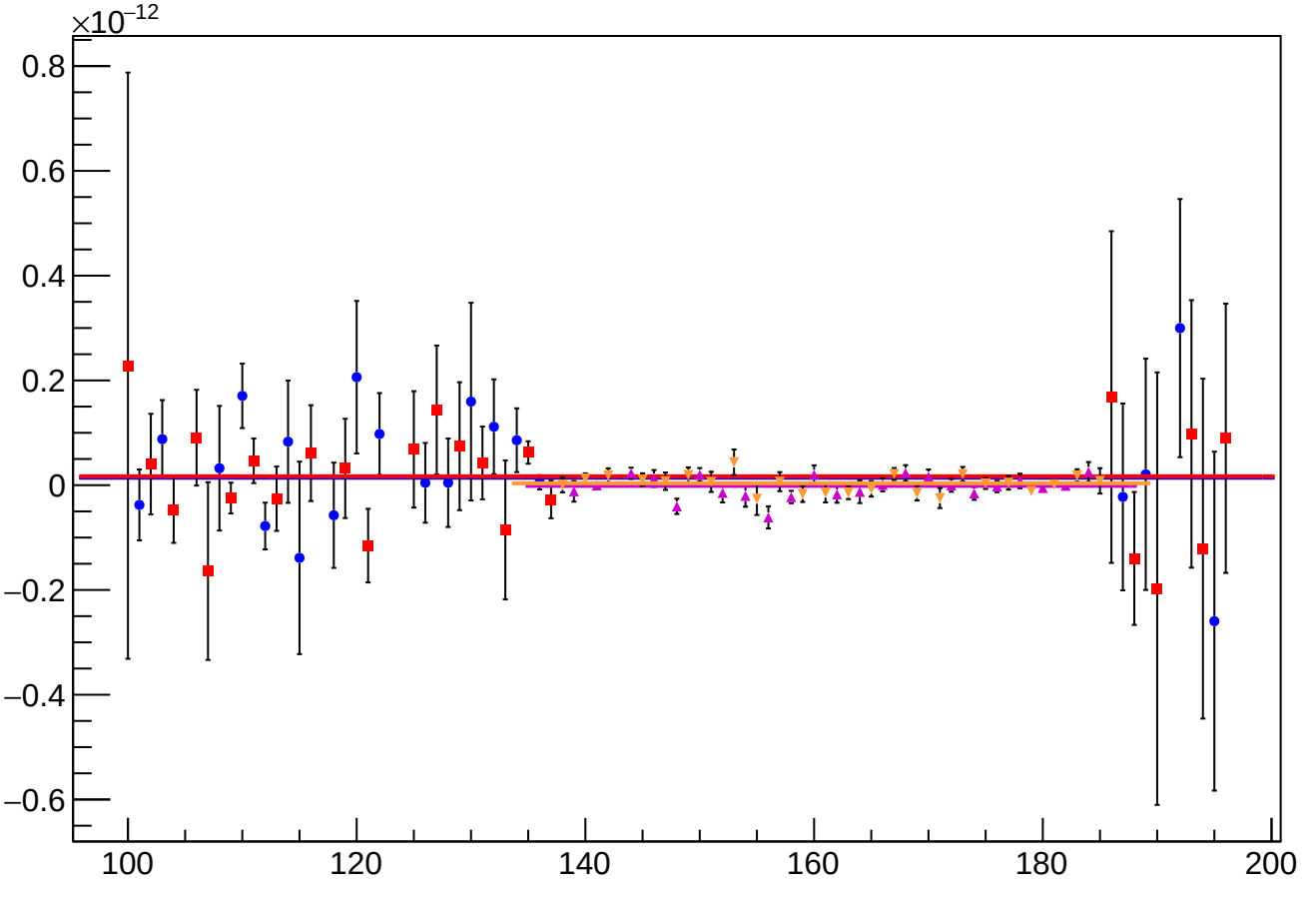
Right: 55.655+/-0.010 $\chi^2$/NDF: 6123148.5/43

In: 50.381+/-0.008 $\chi^2$/NDF:10211507.5/42

Out: 51.532+/-0.008 $\chi^2$/NDF:10523957.9/47

All: 50.957+/-0.006 $\chi^2$/NDF: 20745851.6/90

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: 22.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:24.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.4/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:40.0/22

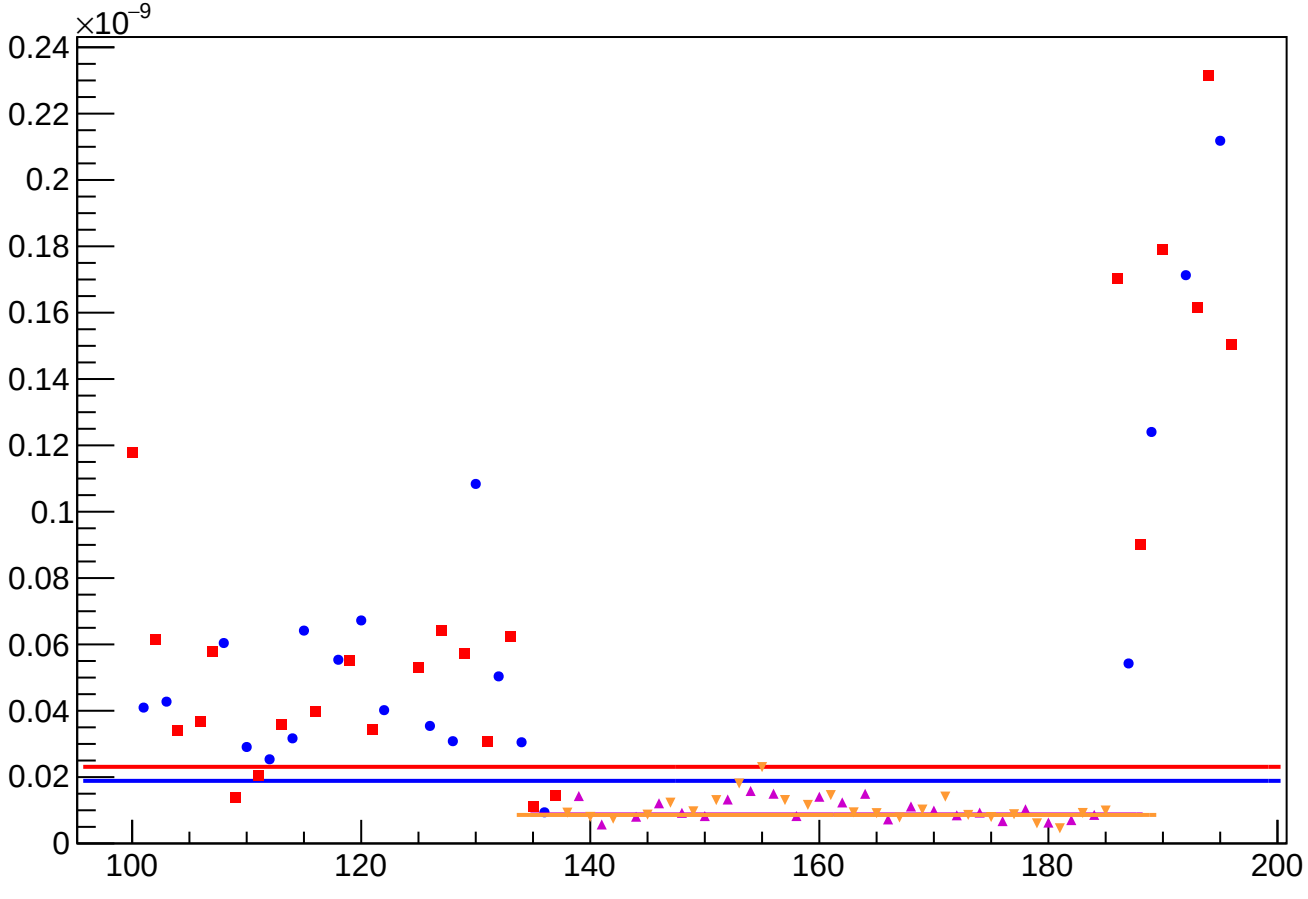
Left: 0.000+/-0.000 $\chi^2$/NDF: 66.3/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.9/43

In: -0.000+/-0.000 $\chi^2$/NDF:64.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:46.1/47

All: 0.000+/-0.000 $\chi^2$/NDF: 111.9/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5423200.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2499872.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5850480.4/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:1954811.1/22

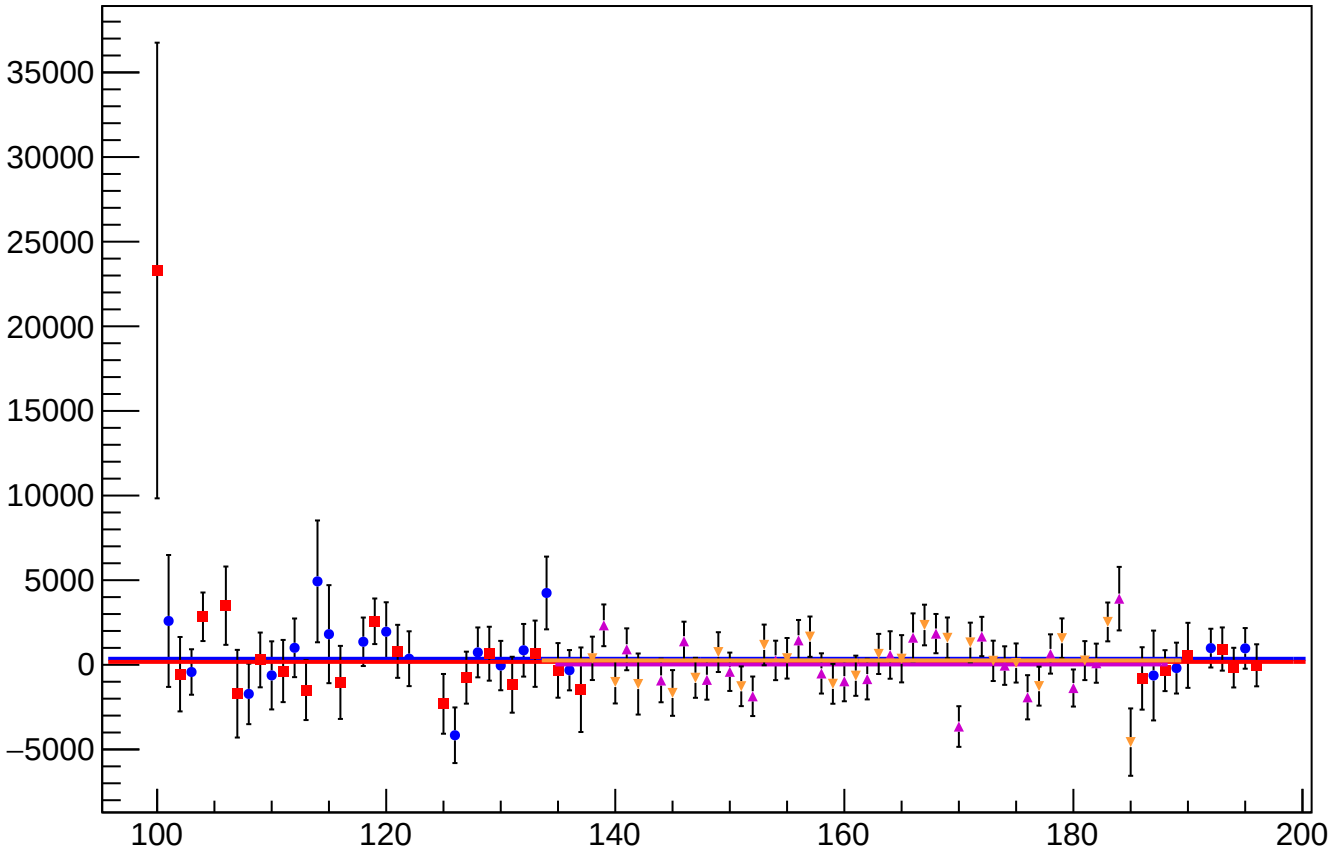
Left: 0.000+/-0.000 $\chi^2$/NDF: 4458320.3/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 11400845.9/43

In: 0.000+/-0.000 $\chi^2$/NDF:8900085.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10955108.8/47

All: 0.000+/-0.000 $\chi^2$/NDF: 19855950.9/90




Right In: 355.402+/-363.059 $\chi^2$/NDF: 17.8/19

Left Out: 260.650+/-251.401 $\chi^2$/NDF:28.2/23

Right Out: 173.910+/-337.960 $\chi^2$/NDF: 18.4/23

Left In: 22.368+/-253.332 $\chi^2$/NDF:35.8/22

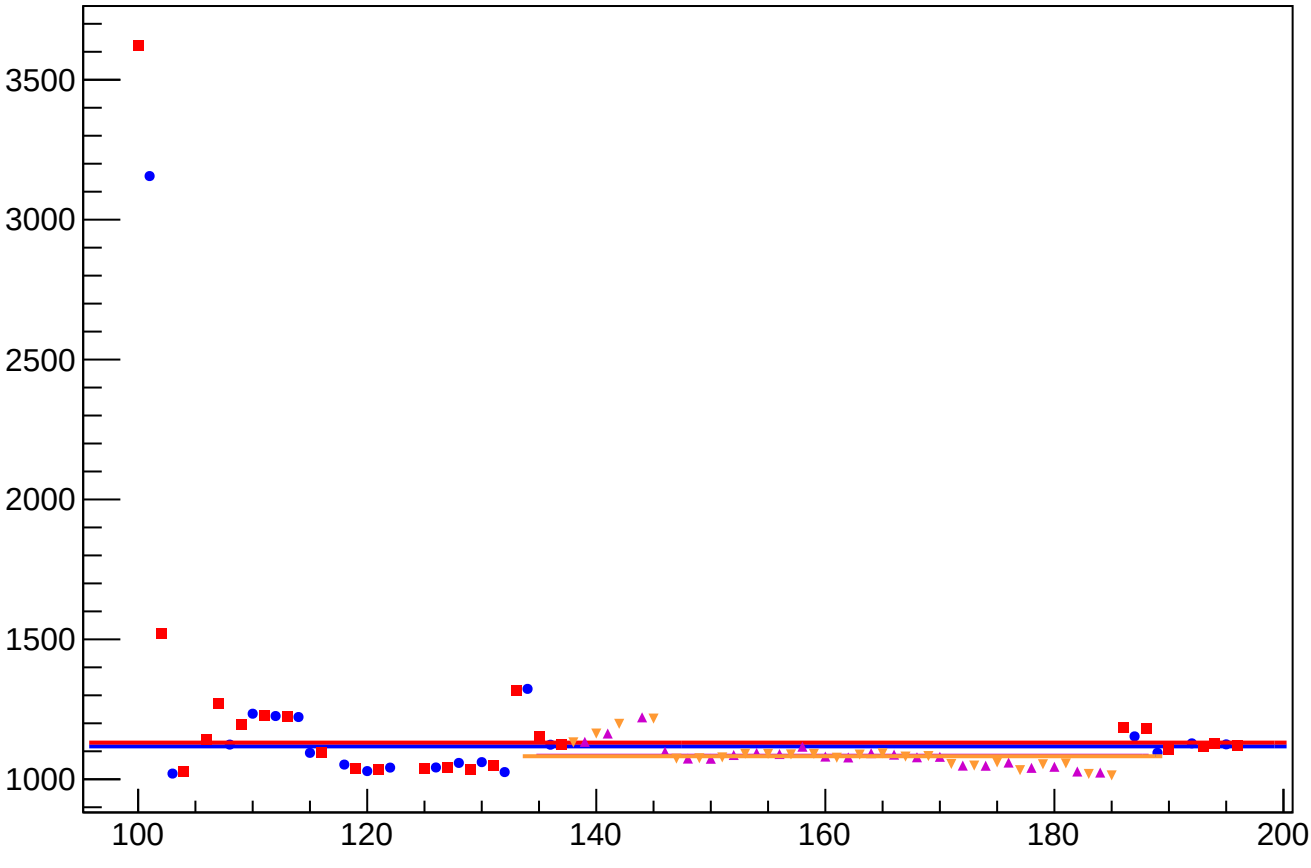
Left: 142.421+/-178.446 $\chi^2$/NDF: 64.5/46

Right: 258.166+/-247.372 $\chi^2$/NDF: 36.3/43

In: 131.421+/-207.755 $\chi^2$/NDF:54.2/42

Out: 229.751+/-201.712 $\chi^2$/NDF:46.7/47

All: 182.037+/-144.721 $\chi^2$/NDF: 101.0/90




Right In: 1117.558+/-0.257 $\chi^2$/NDF: 624488.9/19

Left Out: 1082.308+/-0.178 $\chi^2$/NDF:57873.0/23

Right Out: 1131.051+/-0.239 $\chi^2$/NDF: 228470.7/23

Left In: 1084.166+/-0.179 $\chi^2$/NDF:53438.8/22

Left: 1083.230+/-0.126 $\chi^2$/NDF: 111366.1/46

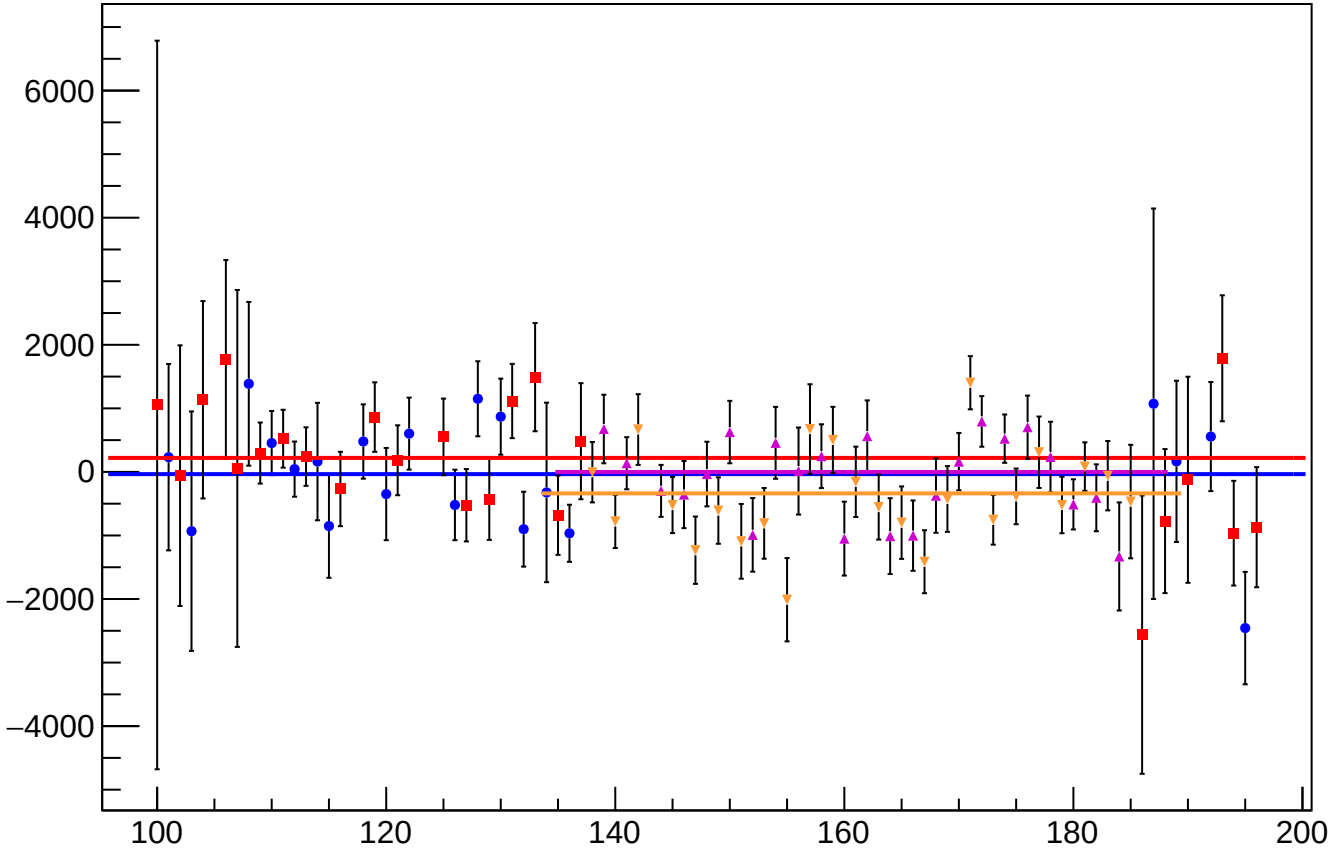
Right: 1124.787+/-0.175 $\chi^2$/NDF: 854439.6/43

In: 1095.100+/-0.147 $\chi^2$/NDF:689306.4/42

Out: 1099.672+/-0.143 $\chi^2$/NDF:313127.3/47

All: 1097.454+/-0.102 $\chi^2$/NDF: 1002932.1/90

asym_us_dd_atlr_dd_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: -34.873+/-154.618 $\chi^2$/NDF: 27.4/19

Left Out: -337.727+/-102.601 $\chi^2$/NDF:48.8/23

Right Out: 220.273+/-147.486 $\chi^2$/NDF: 22.0/23

Left In: -0.547+/-104.733 $\chi^2$/NDF:31.9/22

Left: -172.603+/-73.292 $\chi^2$/NDF: 85.9/46

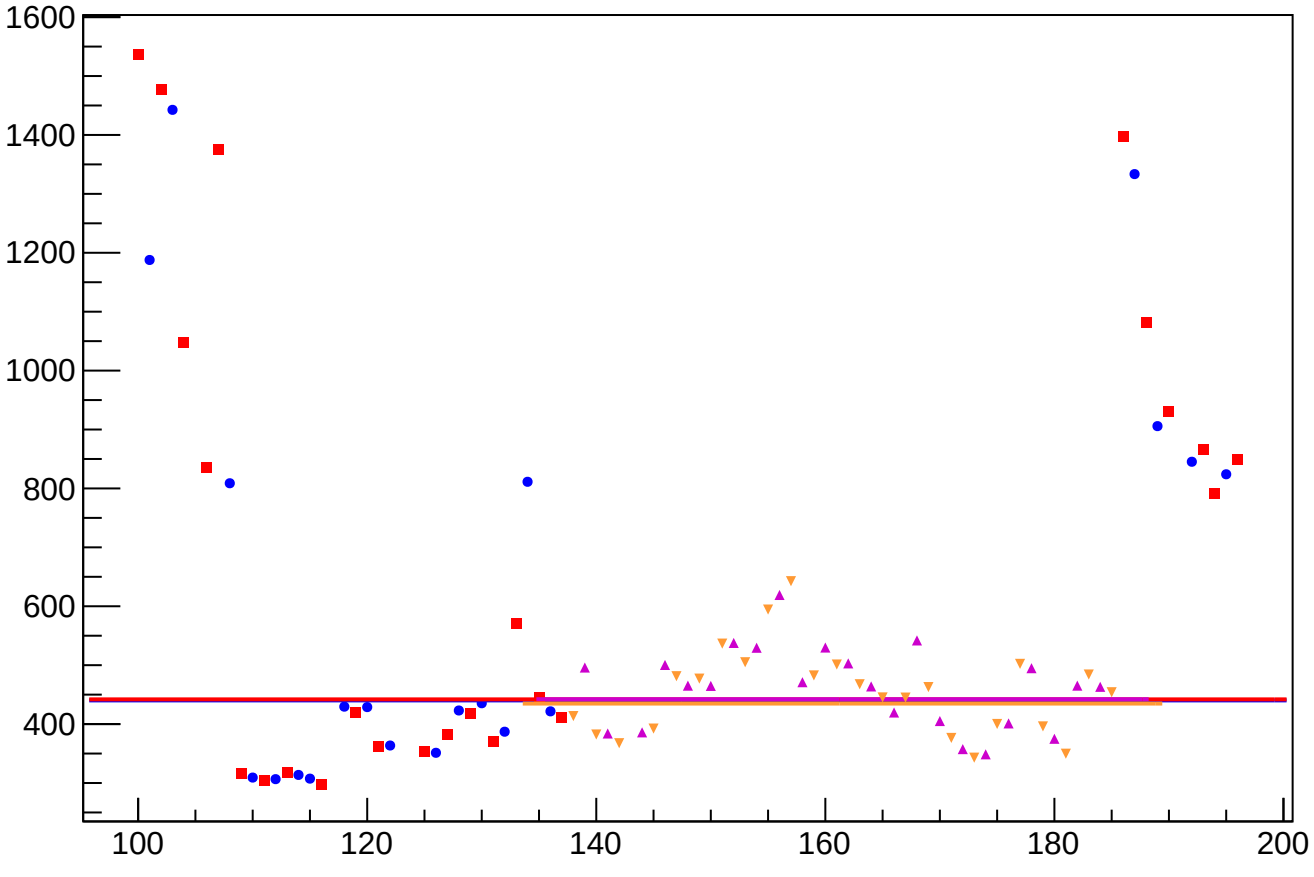
Right: 98.720+/-106.720 $\chi^2$/NDF: 50.9/43

In: -11.343+/-86.712 $\chi^2$/NDF:59.3/42

Out: -155.749+/-84.225 $\chi^2$/NDF:80.5/47

All: -85.647+/-60.416 $\chi^2$/NDF: 141.2/90

asym_us_dd_atlr_dd_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 440.234+/-0.109 $\chi^2$/NDF: 3174725.7/19

Left Out: 434.858+/-0.073 $\chi^2$/NDF:878416.4/23

Right Out: 441.944+/-0.104 $\chi^2$/NDF: 4313199.7/23

Left In: 442.209+/-0.074 $\chi^2$/NDF:825972.2/22

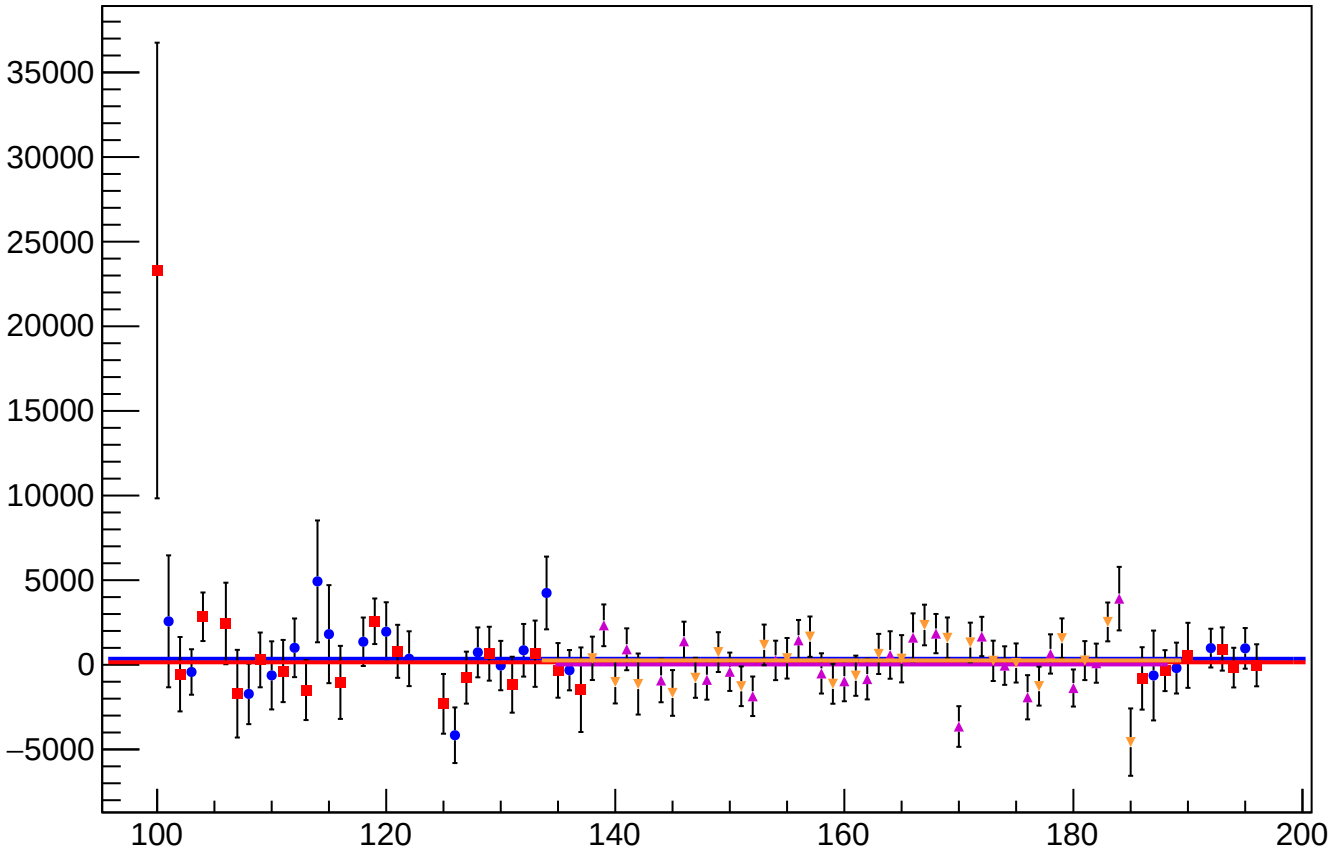
Left: 438.458+/-0.052 $\chi^2$/NDF: 1709415.0/46

Right: 441.129+/-0.075 $\chi^2$/NDF: 7488053.6/43

In: 441.587+/-0.061 $\chi^2$/NDF:4000921.6/42

Out: 437.169+/-0.060 $\chi^2$/NDF:5194726.7/47

All: 439.314+/-0.043 $\chi^2$/NDF: 9198320.0/90




Right In: 355.180+/-363.059 $\chi^2$/NDF: 17.8/19

Left Out: 260.639+/-251.401 $\chi^2$/NDF:28.2/23

Right Out: 147.691+/-338.239 $\chi^2$/NDF: 17.2/23

Left In: 22.362+/-253.332 $\chi^2$/NDF:35.8/22

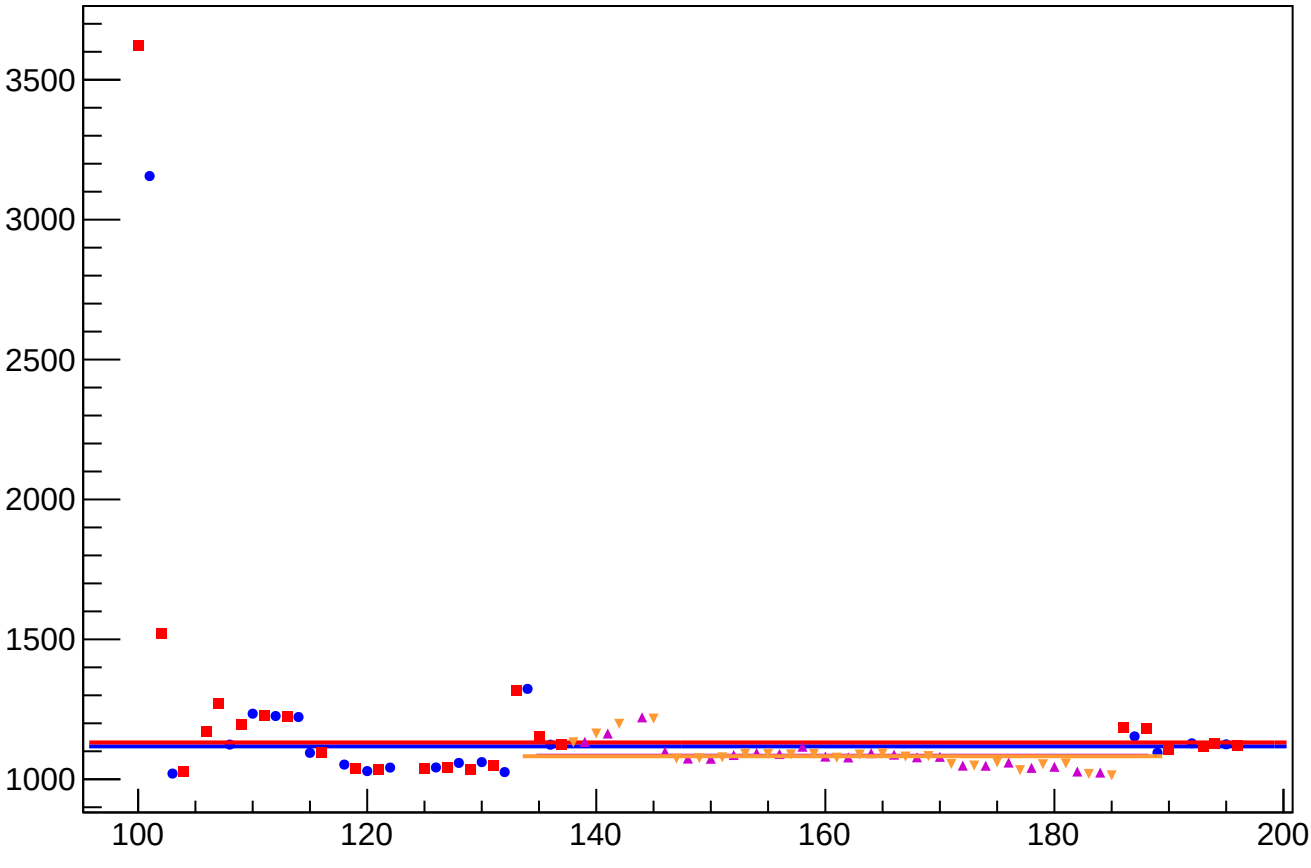
Left: 142.412+/-178.446 $\chi^2$/NDF: 64.5/46

Right: 244.101+/-247.481 $\chi^2$/NDF: 35.2/43

In: 131.344+/-207.755 $\chi^2$/NDF:54.2/42

Out: 220.446+/-201.771 $\chi^2$/NDF:45.5/47

All: 177.197+/-144.743 $\chi^2$/NDF: 99.8/90




Right In: 1117.558+/-0.257 $\chi^2$/NDF: 624489.9/19

Left Out: 1082.308+/-0.178 $\chi^2$/NDF:57873.0/23

Right Out: 1131.654+/-0.239 $\chi^2$/NDF: 229002.9/23

Left In: 1084.166+/-0.179 $\chi^2$/NDF:53438.8/22

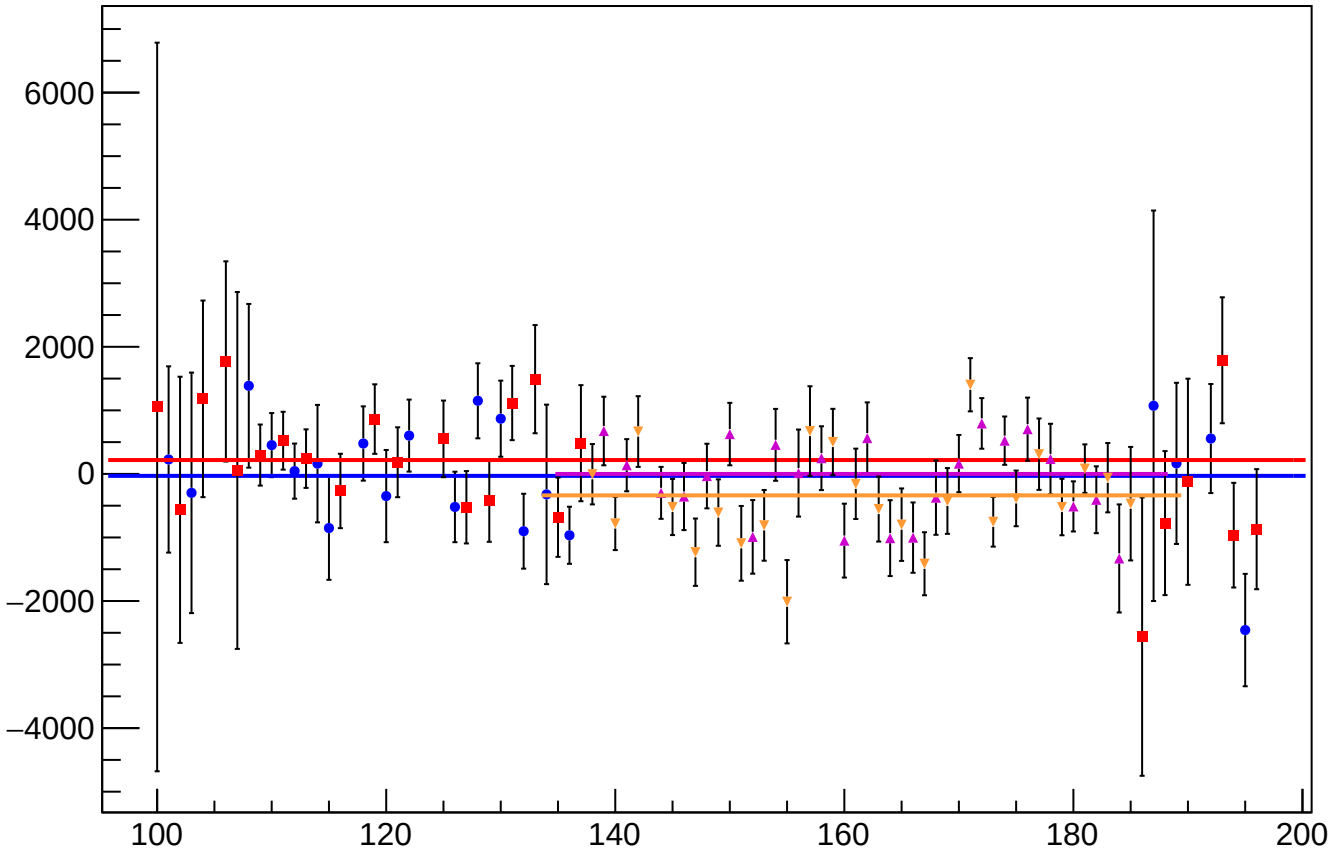
Left: 1083.230+/-0.126 $\chi^2$/NDF: 111366.0/46

Right: 1125.105+/-0.175 $\chi^2$/NDF: 855106.9/43

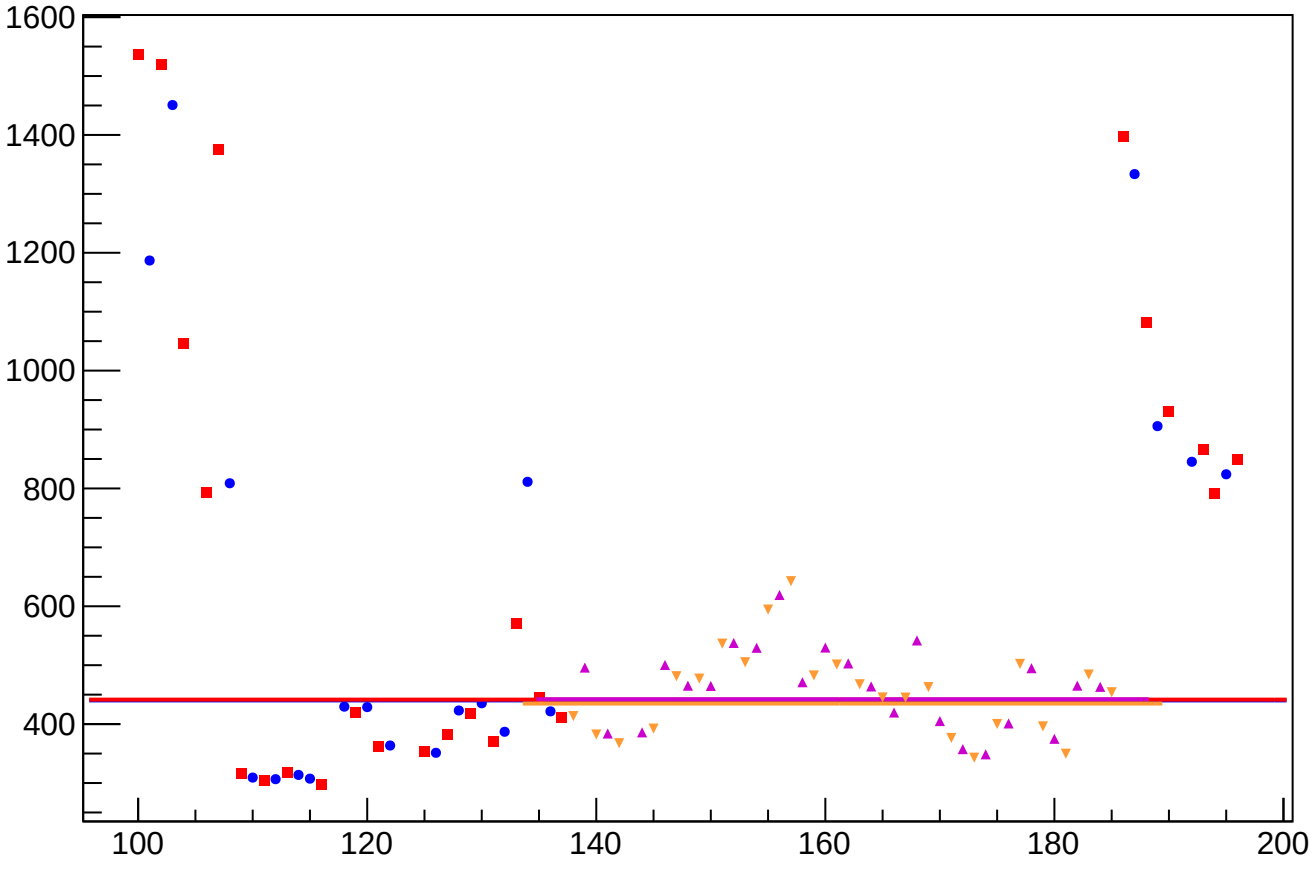
In: 1095.100+/-0.147 $\chi^2$/NDF:689307.3/42

Out: 1099.868+/-0.143 $\chi^2$/NDF:314297.0/47

All: 1097.554+/-0.102 $\chi^2$/NDF: 1004146.3/90


asym_us_dd_atlr_dd_dd_cor_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
120
140
160
180
200
Right In: -30.761+/-154.619 χ²/NDF: 27.2/19
Left Out: -337.816+/-102.601 χ²/NDF:48.8/23
Right Out: 218.175+/-147.505 χ²/NDF: 22.2/23
Left In: -0.567+/-104.733 χ²/NDF:31.9/22
Left: -172.659+/-73.292 χ²/NDF: 85.9/46
Right: 99.565+/-106.728 χ²/NDF: 50.7/43
In: -10.063+/-86.713 χ²/NDF:59.1/42
Out: -156.527+/-84.229 χ²/NDF:80.5/47
All: -85.423+/-60.418 χ²/NDF: 141.1/90

asym_us_dd_atlr_dd_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 440.223+/-0.109 $\chi^2$/NDF: 3178469.2/19

Left Out: 434.856+/-0.073 $\chi^2$/NDF:878507.3/23

Right Out: 441.545+/-0.104 $\chi^2$/NDF: 4305432.9/23

Left In: 442.210+/-0.074 $\chi^2$/NDF:825844.5/22

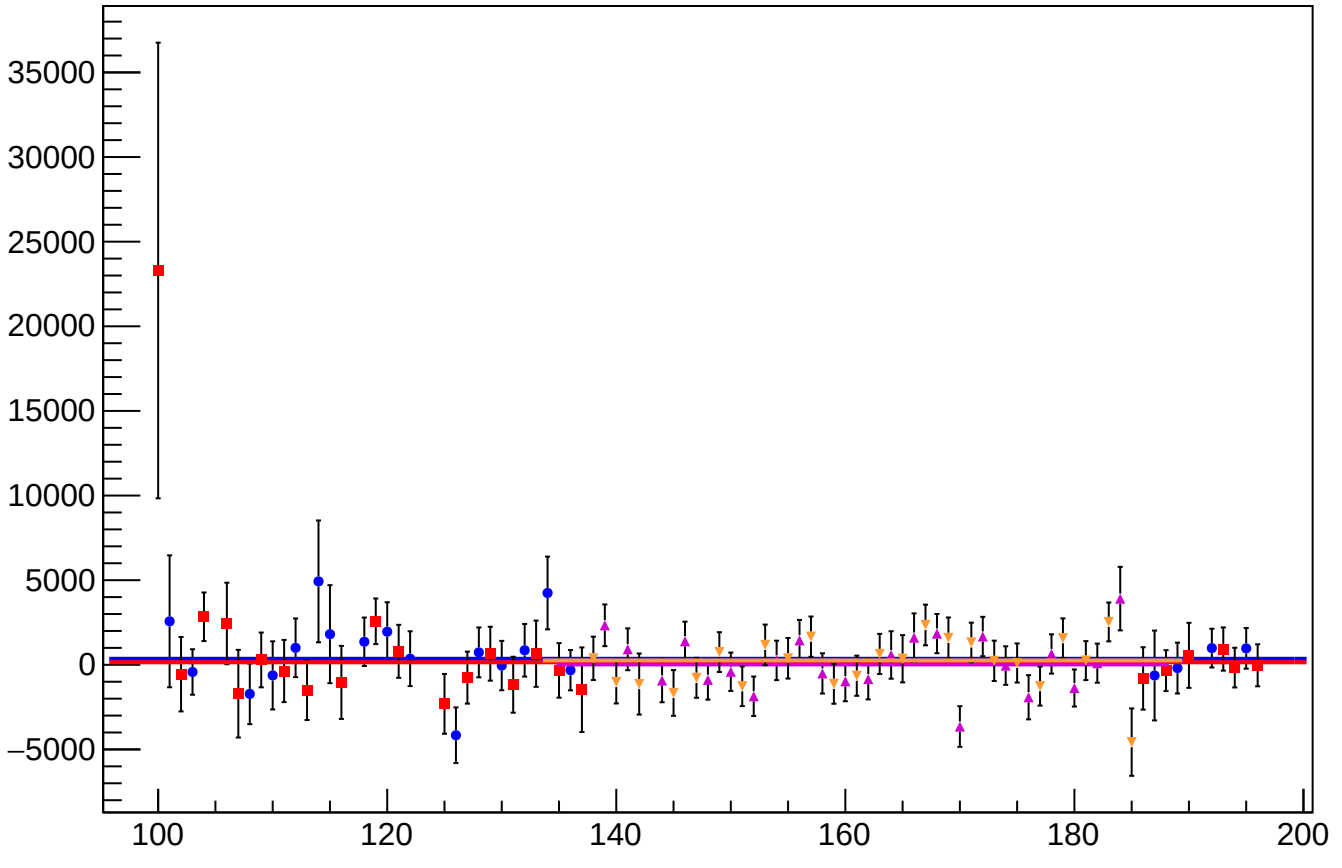
Left: 438.457+/-0.052 $\chi^2$/NDF: 1709383.2/46

Right: 440.915+/-0.075 $\chi^2$/NDF: 7483978.6/43

In: 441.585+/-0.061 $\chi^2$/NDF:4004539.9/42

Out: 437.037+/-0.060 $\chi^2$/NDF:5186711.7/47

All: 439.245+/-0.043 $\chi^2$/NDF: 9194082.6/90




Right In: 355.180+/-363.059 $\chi^2$/NDF: 17.8/19

Left Out: 260.639+/-251.401 $\chi^2$/NDF:28.2/23

Right Out: 147.691+/-338.239 $\chi^2$/NDF: 17.2/23

Left In: 22.362+/-253.332 $\chi^2$/NDF:35.8/22

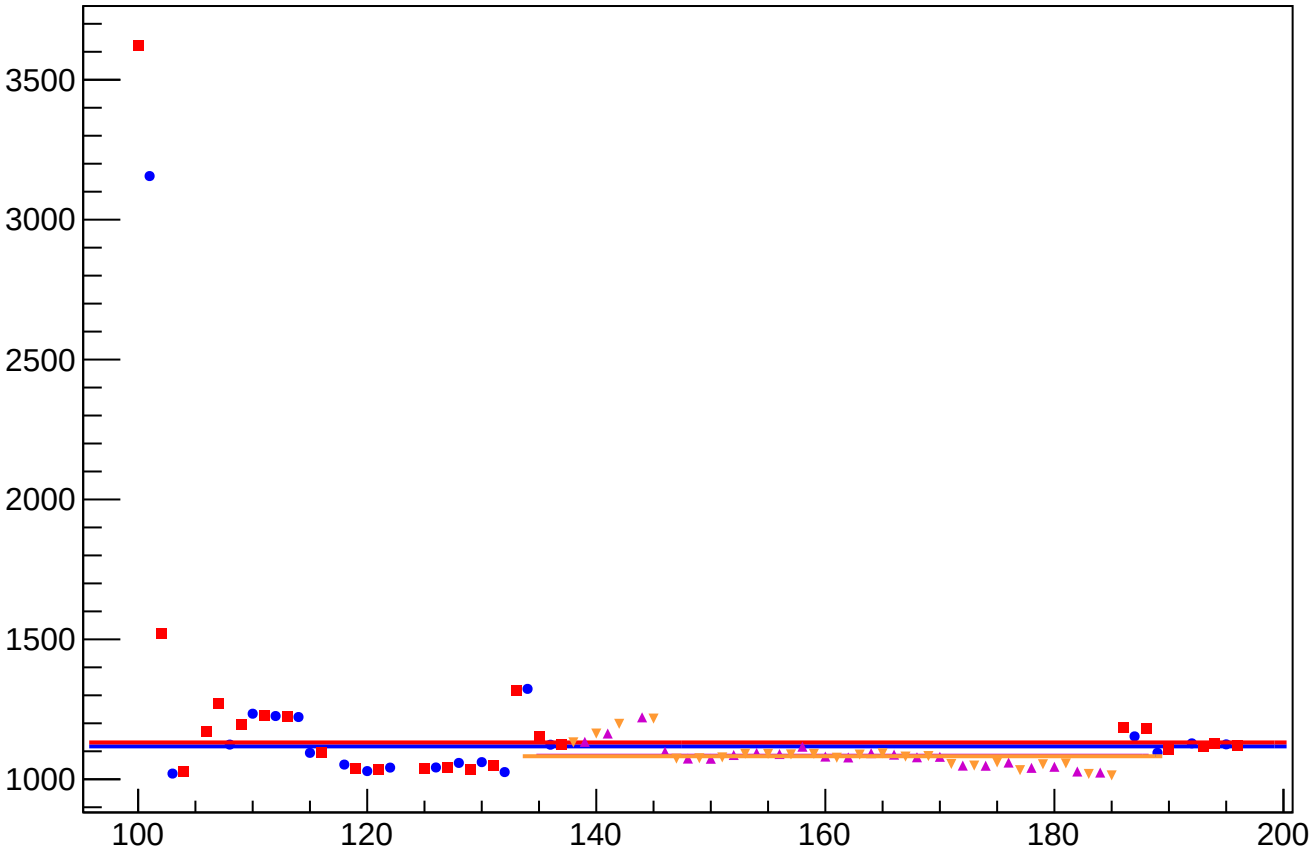
Left: 142.412+/-178.446 $\chi^2$/NDF: 64.5/46

Right: 244.101+/-247.481 $\chi^2$/NDF: 35.2/43

In: 131.344+/-207.755 $\chi^2$/NDF:54.2/42

Out: 220.446+/-201.771 $\chi^2$/NDF:45.5/47

All: 177.197+/-144.743 $\chi^2$/NDF: 99.8/90




Right In: 1117.558+/-0.257 $\chi^2$/NDF: 624489.9/19

Left Out: 1082.308+/-0.178 $\chi^2$/NDF:57873.0/23

Right Out: 1131.654+/-0.239 $\chi^2$/NDF: 229002.9/23

Left In: 1084.166+/-0.179 $\chi^2$/NDF:53438.8/22

Left: 1083.230+/-0.126 $\chi^2$/NDF: 111366.0/46

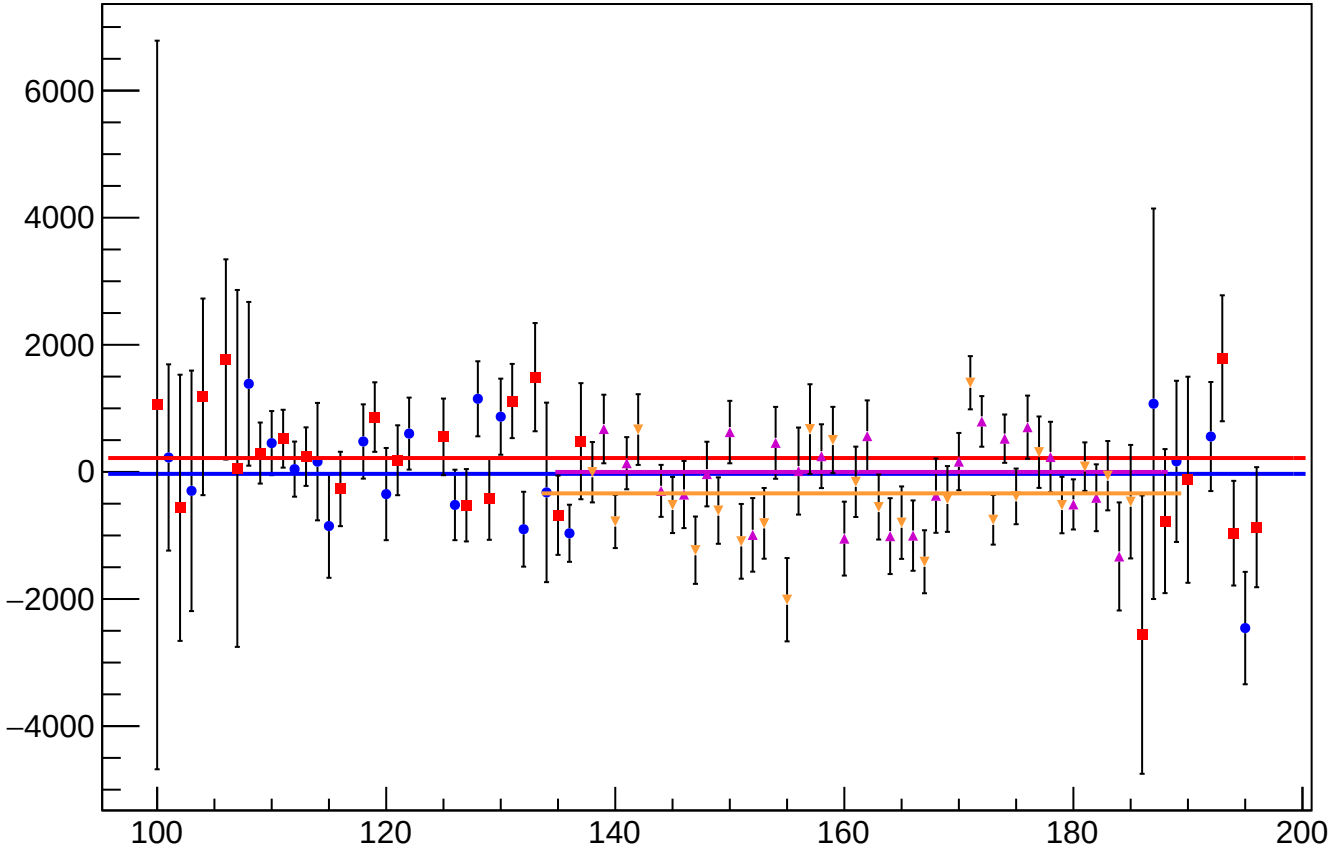
Right: 1125.105+/-0.175 $\chi^2$/NDF: 855106.9/43

In: 1095.100+/-0.147 $\chi^2$/NDF:689307.3/42

Out: 1099.868+/-0.143 $\chi^2$/NDF:314297.0/47

All: 1097.554+/-0.102 $\chi^2$/NDF: 1004146.3/90

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -30.761+/-154.619 $\chi^2$/NDF: 27.2/19

Left Out: -337.816+/-102.601 $\chi^2$/NDF:48.8/23

Right Out: 218.175+/-147.505 $\chi^2$/NDF: 22.2/23

Left In: -0.567+/-104.733 $\chi^2$/NDF:31.9/22

Left: -172.659+/-73.292 $\chi^2$/NDF: 85.9/46

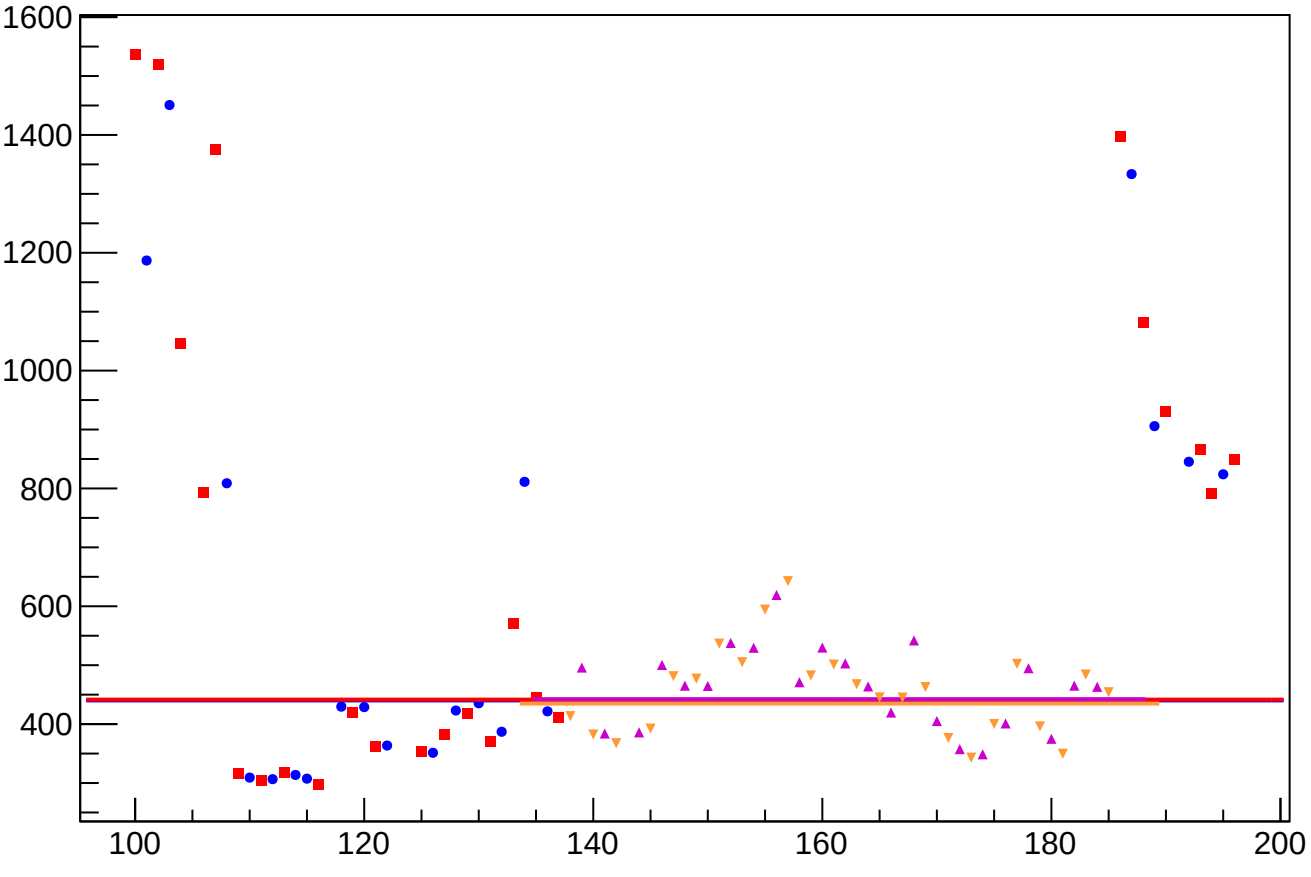
Right: 99.565+/-106.728 $\chi^2$/NDF: 50.7/43

In: -10.063+/-86.713 $\chi^2$/NDF:59.1/42

Out: -156.527+/-84.229 $\chi^2$/NDF:80.5/47

All: -85.423+/-60.418 $\chi^2$/NDF: 141.1/90

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 440.223+/-0.109 $\chi^2$/NDF: 3178469.2/19

Left Out: 434.856+/-0.073 $\chi^2$/NDF:878507.3/23

Right Out: 441.545+/-0.104 $\chi^2$/NDF: 4305432.9/23

Left In: 442.210+/-0.074 $\chi^2$/NDF:825844.5/22

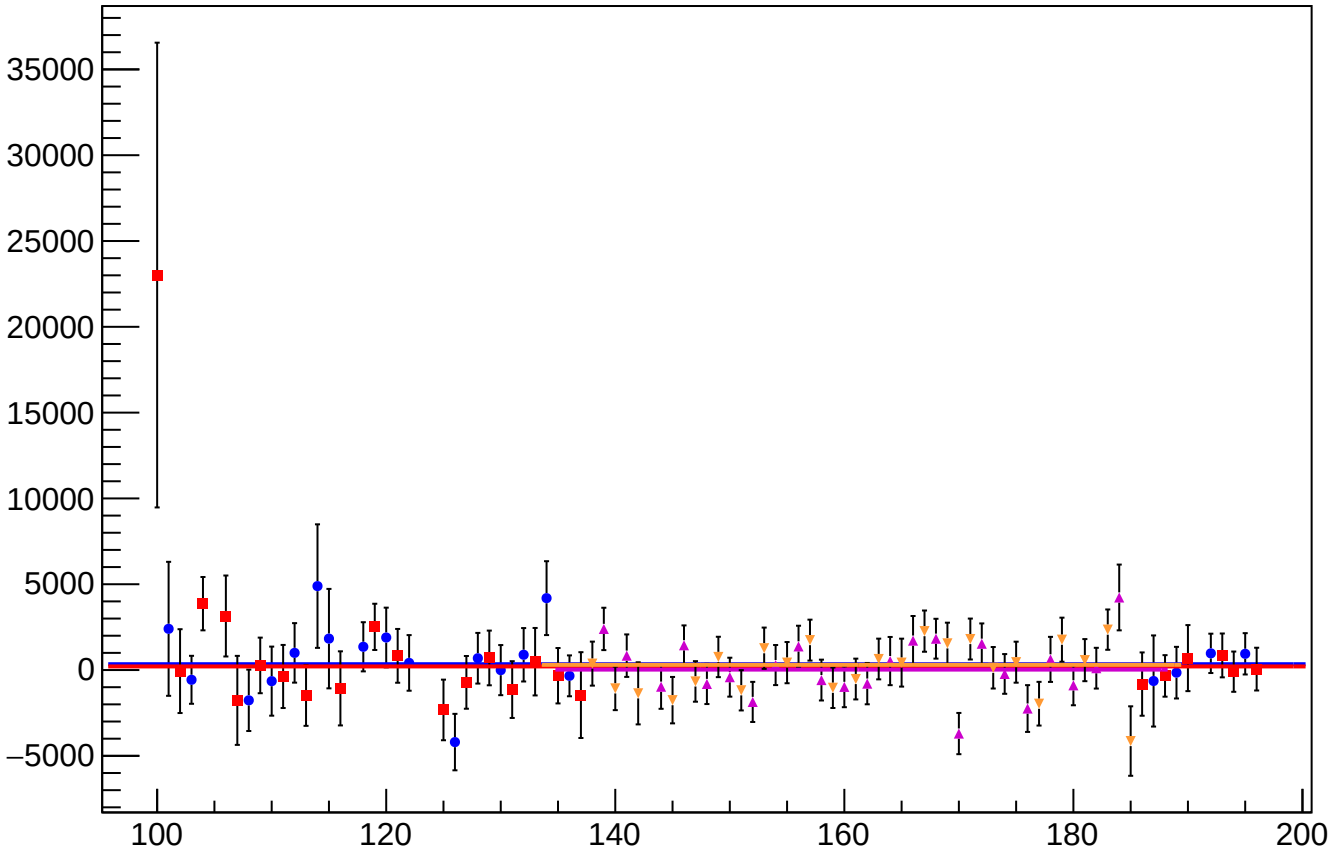
Left: 438.457+/-0.052 $\chi^2$/NDF: 1709383.2/46

Right: 440.915+/-0.075 $\chi^2$/NDF: 7483978.6/43

In: 441.585+/-0.061 $\chi^2$/NDF:4004539.9/42

Out: 437.037+/-0.060 $\chi^2$/NDF:5186711.7/47

All: 439.245+/-0.043 $\chi^2$/NDF: 9194082.6/90




Right In: 339.617+/-364.431 $\chi^2$/NDF: 17.8/19

Left Out: 303.404+/-255.556 $\chi^2$/NDF:28.5/23

Right Out: 210.171+/-340.591 $\chi^2$/NDF: 19.6/23

Left In: 25.319+/-256.866 $\chi^2$/NDF:35.9/22

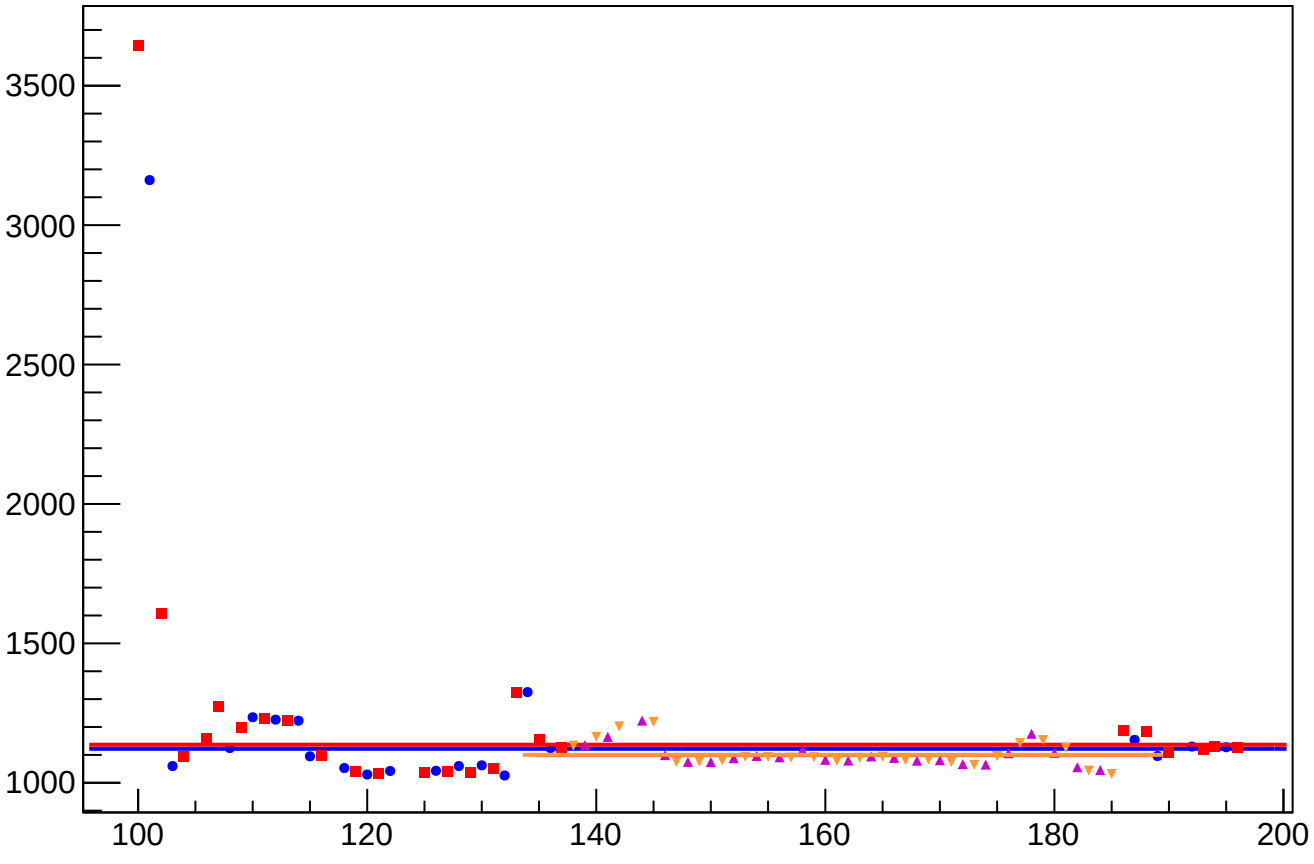
Left: 165.072+/-181.167 $\chi^2$/NDF: 64.9/46

Right: 270.522+/-248.836 $\chi^2$/NDF: 37.5/43

In: 129.637+/-209.954 $\chi^2$/NDF:54.2/42

Out: 269.821+/-204.412 $\chi^2$/NDF:48.2/47

All: 201.604+/-146.461 $\chi^2$/NDF: 102.6/90




Right In: 1121.871+/-0.258 $\chi^2$/NDF: 618064.9/19

Left Out: 1100.258+/-0.181 $\chi^2$/NDF:48774.1/23

Right Out: 1136.587+/-0.241 $\chi^2$/NDF: 233096.2/23

Left In: 1099.342+/-0.182 $\chi^2$/NDF:44785.6/22

Left: 1099.802+/-0.128 $\chi^2$/NDF: 93572.4/46

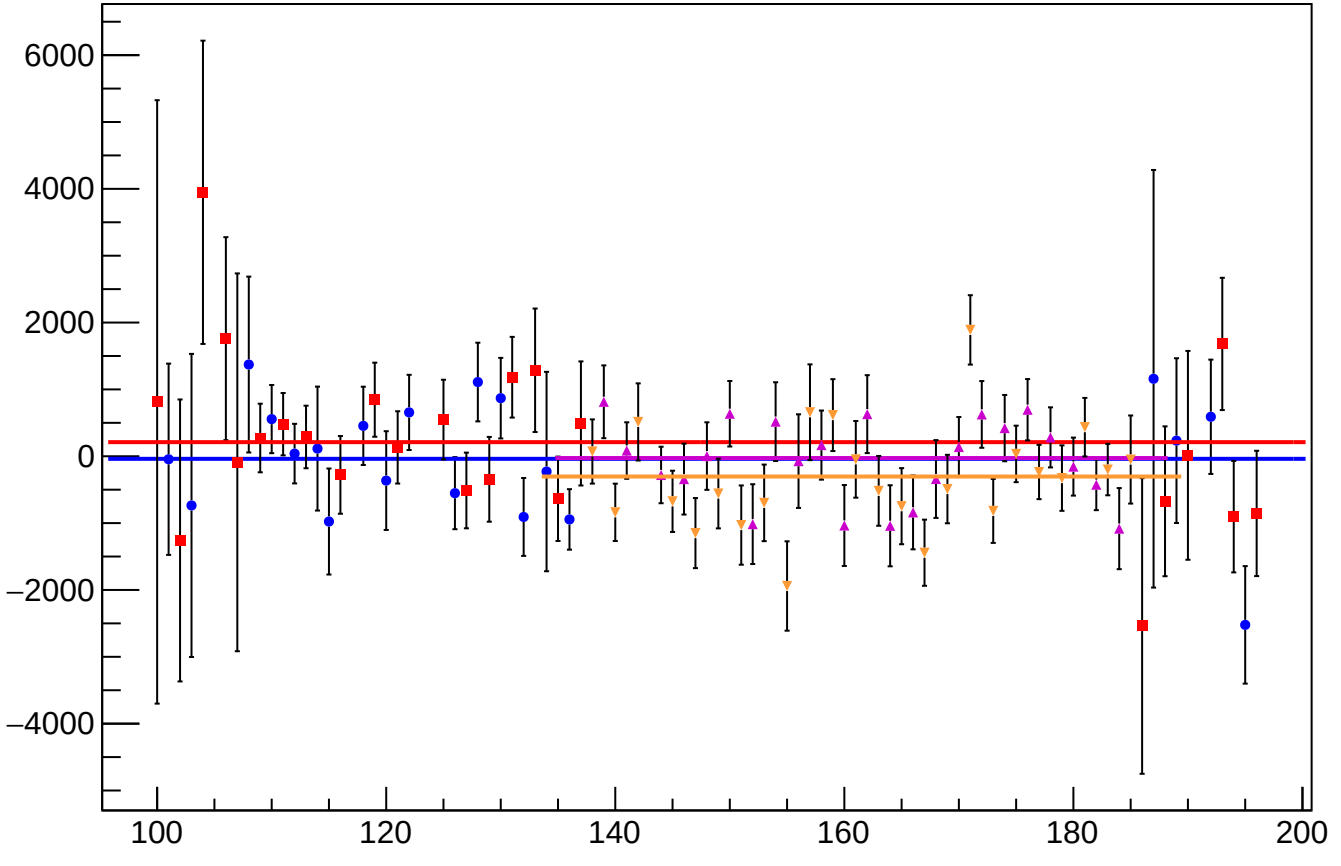
Right: 1129.726+/-0.176 $\chi^2$/NDF: 852901.8/43

In: 1106.819+/-0.148 $\chi^2$/NDF:667956.8/42

Out: 1113.344+/-0.145 $\chi^2$/NDF:296428.4/47

All: 1110.169+/-0.104 $\chi^2$/NDF: 965376.8/90

asym_us_dd_atlr_dd_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: -38.480+/-155.043 $\chi^2$/NDF: 28.5/19

Left Out: -303.217+/-102.979 $\chi^2$/NDF:49.5/23

Right Out: 211.070+/-149.654 $\chi^2$/NDF: 22.7/23

Left In: -26.740+/-105.420 $\chi^2$/NDF:27.9/22

Left: -168.216+/-73.665 $\chi^2$/NDF: 80.9/46

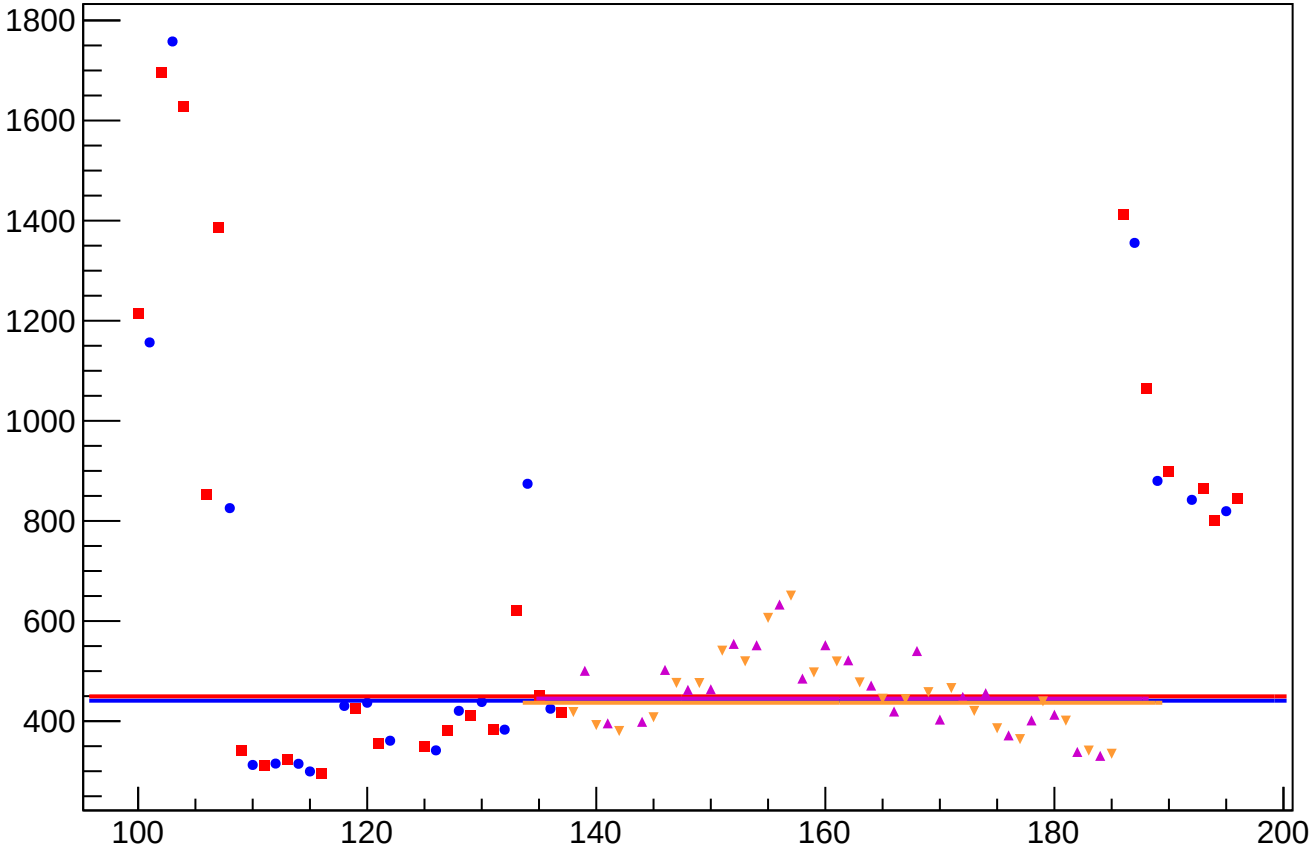
Right: 90.707+/-107.676 $\chi^2$/NDF: 52.5/43

In: -30.452+/-87.177 $\chi^2$/NDF:56.3/42

Out: -137.952+/-84.835 $\chi^2$/NDF:80.3/47

All: -85.665+/-60.799 $\chi^2$/NDF: 137.4/90

asym_us_dd_atlr_dd_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 440.903+/-0.110 $\chi^2$/NDF: 3272632.7/19

Left Out: 436.787+/-0.073 $\chi^2$/NDF:855206.3/23

Right Out: 449.545+/-0.106 $\chi^2$/NDF: 4664955.1/23

Left In: 445.109+/-0.075 $\chi^2$/NDF:874534.9/22

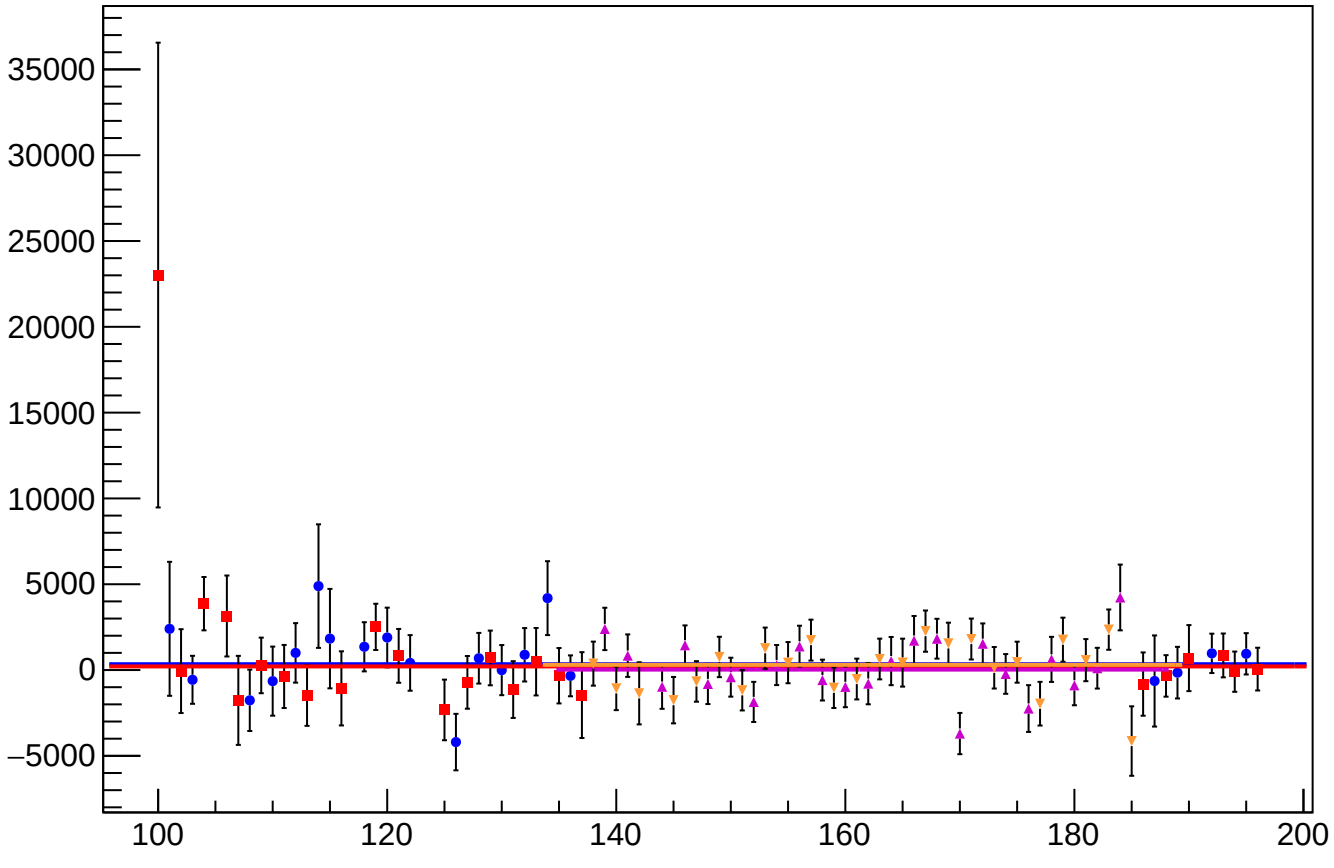
Left: 440.850+/-0.052 $\chi^2$/NDF: 1736118.5/46

Right: 445.377+/-0.076 $\chi^2$/NDF: 7940804.5/43

In: 443.779+/-0.062 $\chi^2$/NDF:4148174.1/42

Out: 440.887+/-0.060 $\chi^2$/NDF:5530025.3/47

All: 442.293+/-0.043 $\chi^2$/NDF: 9679330.2/90




Right In: 339.620+/-364.431 $\chi^2$/NDF: 17.8/19

Left Out: 303.402+/-255.556 $\chi^2$/NDF:28.5/23

Right Out: 210.171+/-340.591 $\chi^2$/NDF: 19.6/23

Left In: 25.320+/-256.866 $\chi^2$/NDF:35.9/22

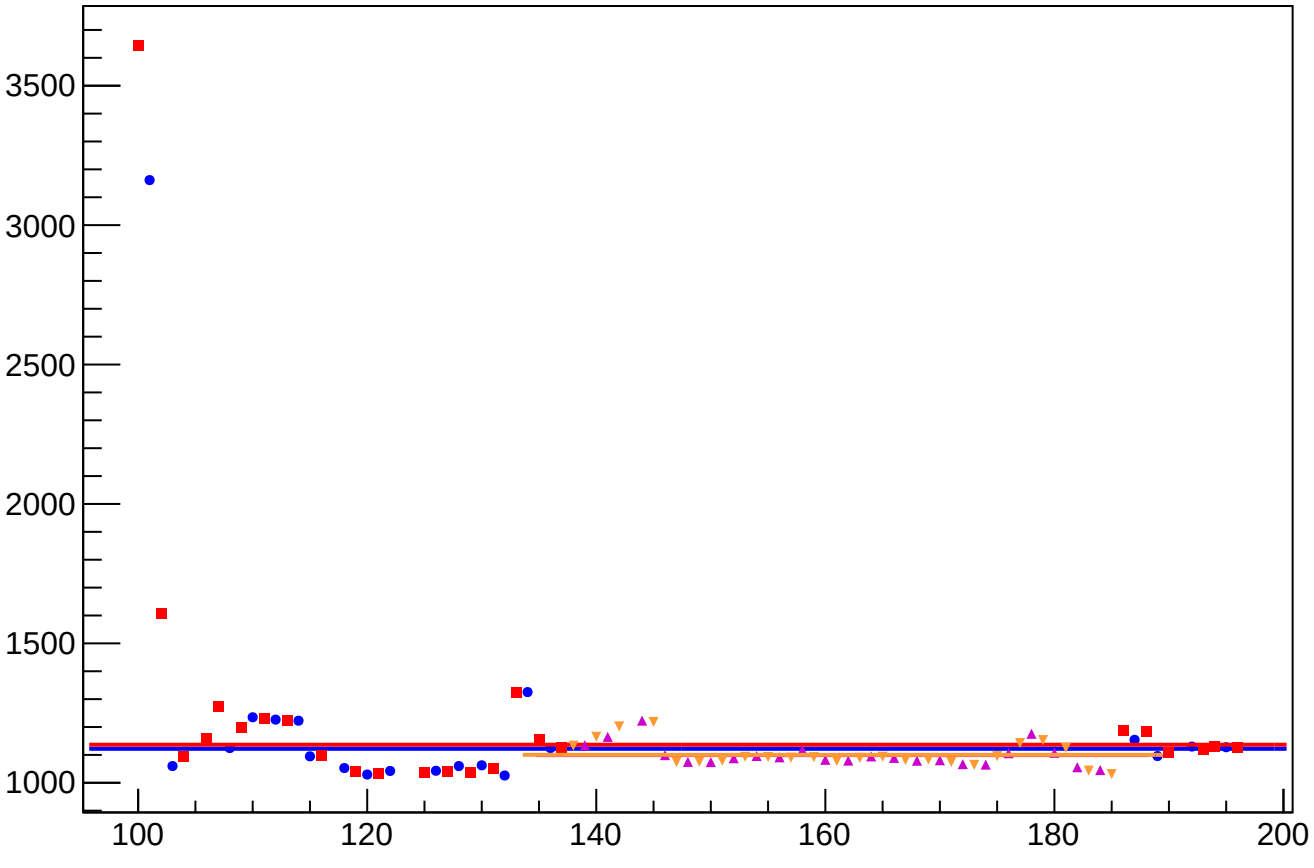
Left: 165.071+/-181.167 $\chi^2$/NDF: 64.9/46

Right: 270.523+/-248.836 $\chi^2$/NDF: 37.5/43

In: 129.639+/-209.954 $\chi^2$/NDF:54.2/42

Out: 269.819+/-204.412 $\chi^2$/NDF:48.2/47

All: 201.603+/-146.461 $\chi^2$/NDF: 102.6/90




Right In: 1121.871+/-0.258 $\chi^2$/NDF: 618064.9/19

Left Out: 1100.258+/-0.181 $\chi^2$/NDF:48774.3/23

Right Out: 1136.587+/-0.241 $\chi^2$/NDF: 233096.2/23

Left In: 1099.342+/-0.182 $\chi^2$/NDF:44785.7/22

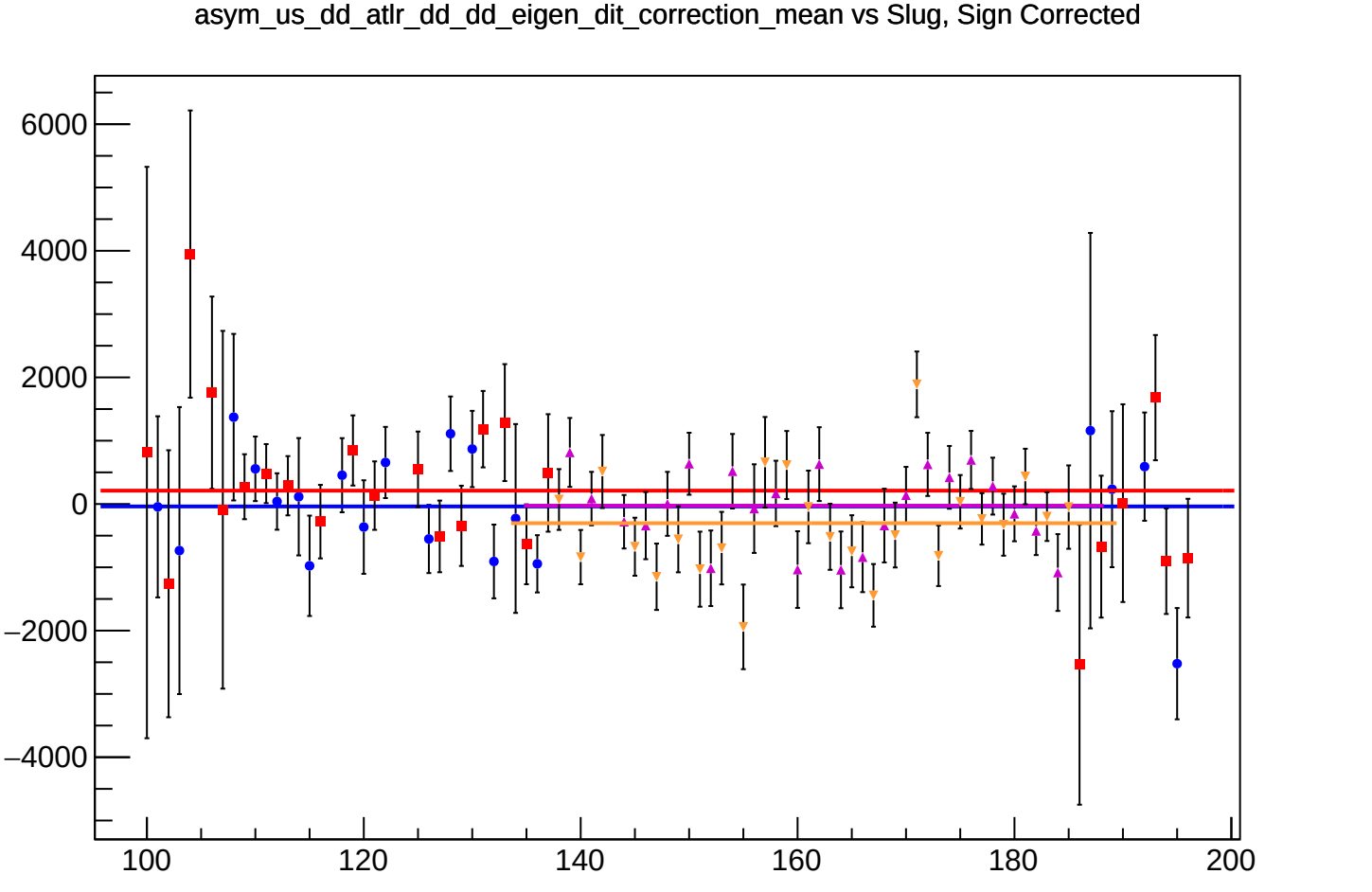
Left: 1099.802+/-0.128 $\chi^2$/NDF: 93572.8/46

Right: 1129.726+/-0.176 $\chi^2$/NDF: 852901.9/43

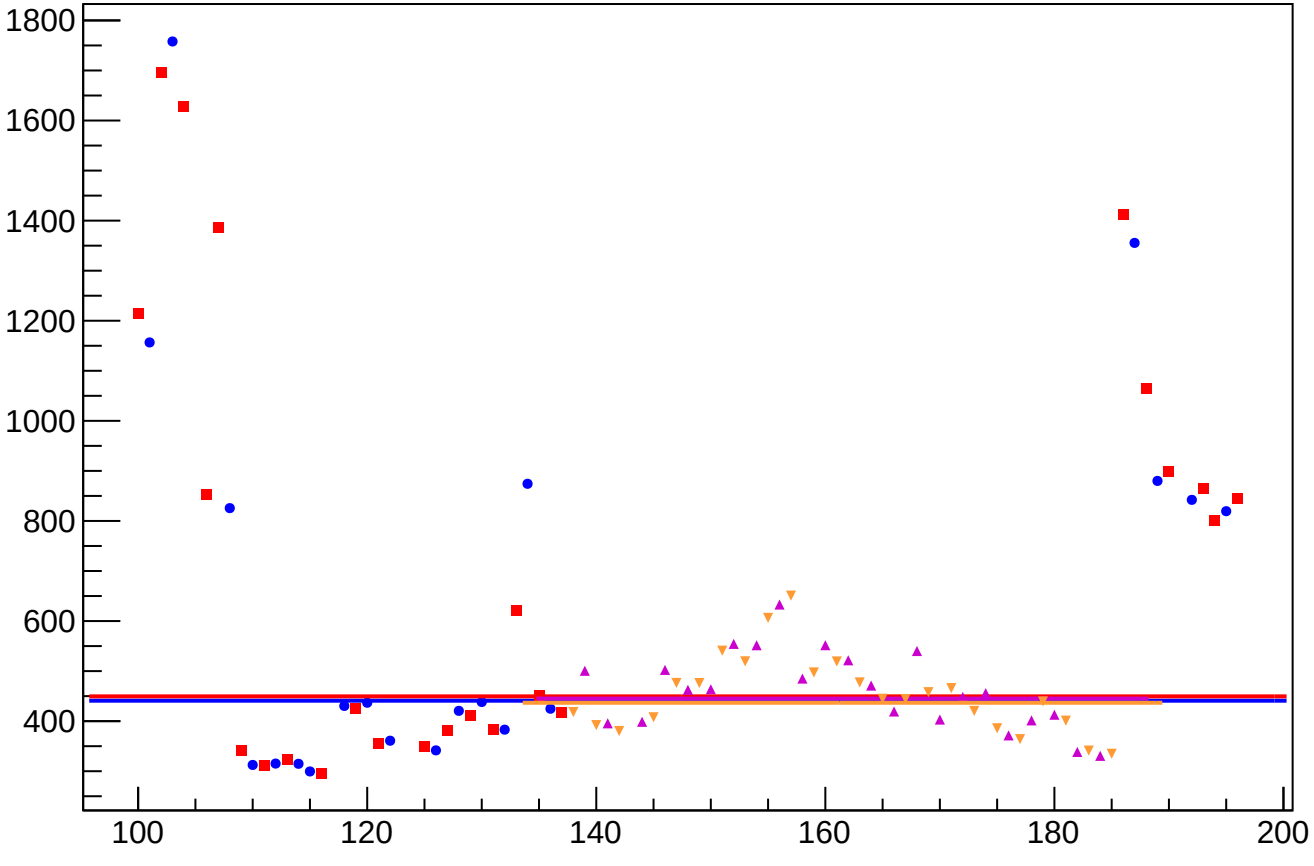
In: 1106.819+/-0.148 $\chi^2$/NDF:667957.0/42

Out: 1113.344+/-0.145 $\chi^2$/NDF:296428.7/47

All: 1110.169+/-0.104 $\chi^2$/NDF: 965377.2/90


asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
6000
4000
2000
0
−2000
−4000
100
120
140
160
180
200
Right In: -38.483+/-155.042 χ²/NDF: 28.5/19
Left Out: -303.218+/-102.979 χ²/NDF:49.5/23
Right Out: 211.069+/-149.653 χ²/NDF: 22.7/23
Left In: -26.739+/-105.420 χ²/NDF:27.9/22
Left: -168.217+/-73.665 χ²/NDF: 80.9/46
Right: 90.706+/-107.675 χ²/NDF: 52.5/43
In: -30.452+/-87.177 χ²/NDF:56.3/42
Out: -137.952+/-84.835 χ²/NDF:80.3/47
All: -85.666+/-60.798 χ²/NDF: 137.4/90

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 440.900+/-0.110 $\chi^2$/NDF: 3272642.0/19

Left Out: 436.787+/-0.073 $\chi^2$/NDF:855236.5/23

Right Out: 449.541+/-0.106 $\chi^2$/NDF: 4664984.7/23

Left In: 445.108+/-0.075 $\chi^2$/NDF:874568.8/22

Left: 440.850+/-0.052 $\chi^2$/NDF: 1736182.6/46

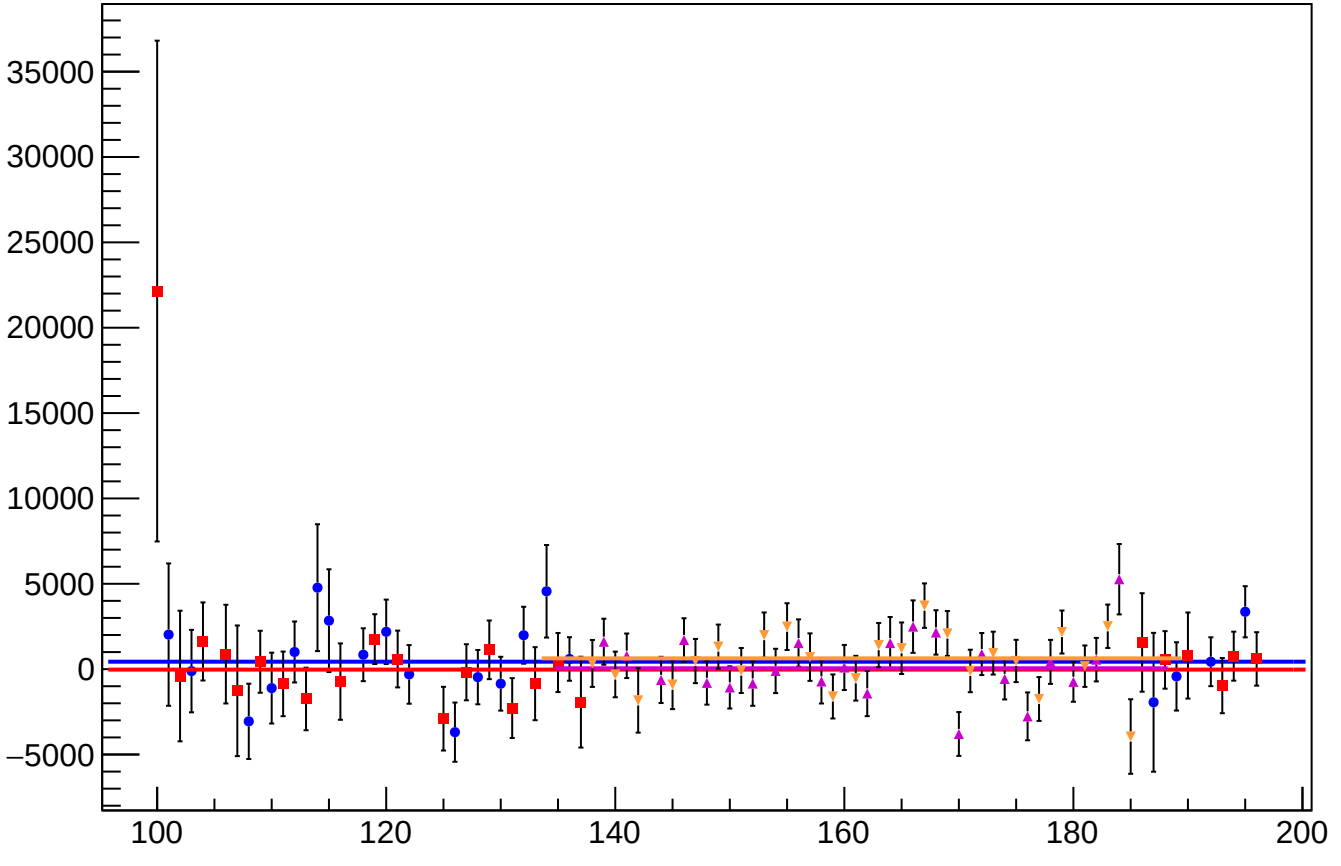
Right: 445.373+/-0.076 $\chi^2$/NDF: 7940843.3/43

In: 443.778+/-0.062 $\chi^2$/NDF:4148218.7/42

Out: 440.885+/-0.060 $\chi^2$/NDF:5530080.4/47

All: 442.292+/-0.043 $\chi^2$/NDF: 9679429.8/90

# asym_us_dd_atlr_dd_dd_mean vs Slug, Sign Corrected




Right In: 436.990+/-419.439 $\chi^2$/NDF: 20.7/19

Left Out: 632.875+/-274.060 $\chi^2$/NDF:30.1/23

Right Out: -26.870+/-398.859 $\chi^2$/NDF: 12.4/23

Left In: 50.835+/-276.213 $\chi^2$/NDF:35.0/22

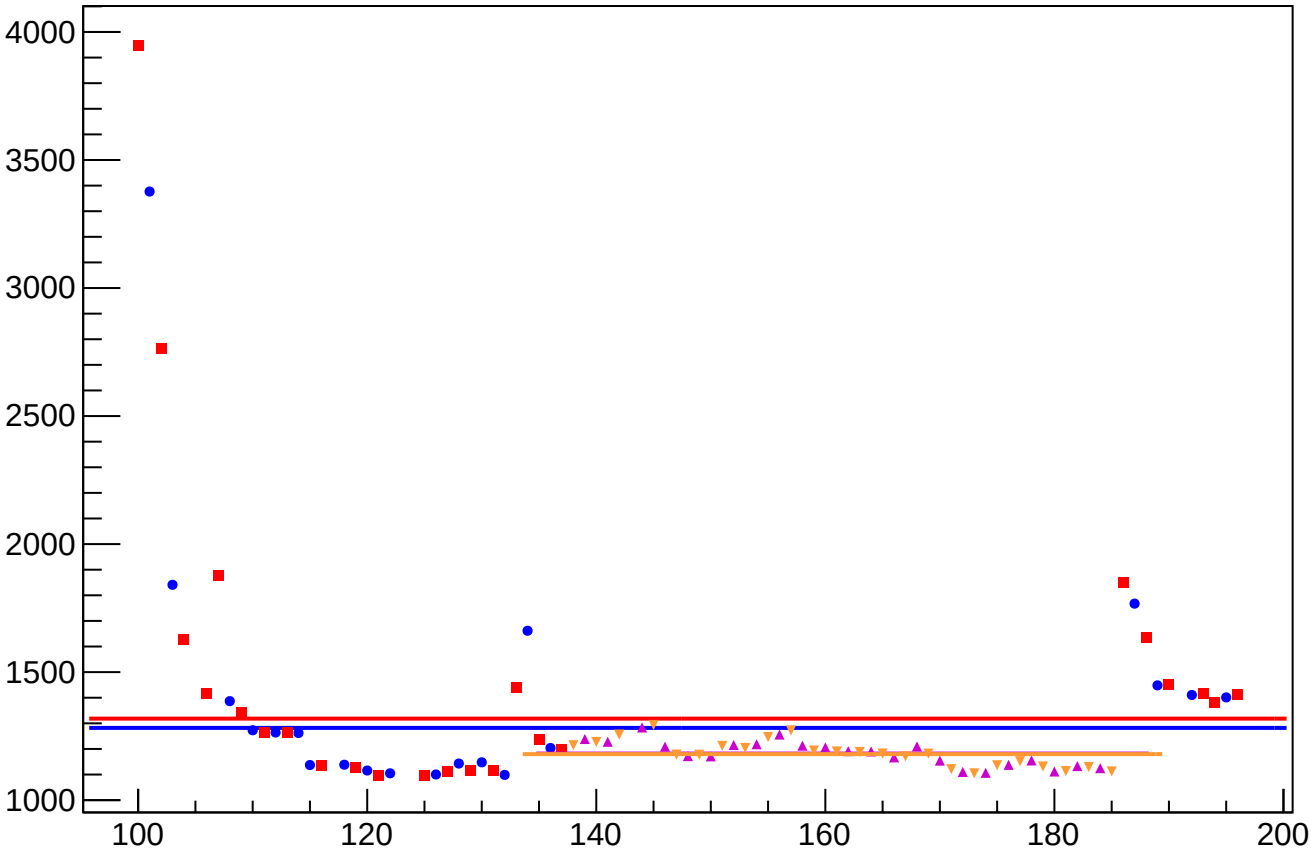
Left: 344.131+/-194.546 $\chi^2$/NDF: 67.4/46

Right: 193.401+/-289.038 $\chi^2$/NDF: 33.7/43

In: 167.641+/-230.686 $\chi^2$/NDF:56.3/42

Out: 421.289+/-225.878 $\chi^2$/NDF:44.4/47

All: 297.136+/-161.393 $\chi^2$/NDF: 101.3/90




Right In: 1282.167+/-0.297 $\chi^2$/NDF: 869386.1/19

Left Out: 1179.713+/-0.194 $\chi^2$/NDF:64667.7/23

Right Out: 1318.437+/-0.282 $\chi^2$/NDF: 810543.0/23

Left In: 1181.929+/-0.195 $\chi^2$/NDF:60355.9/22

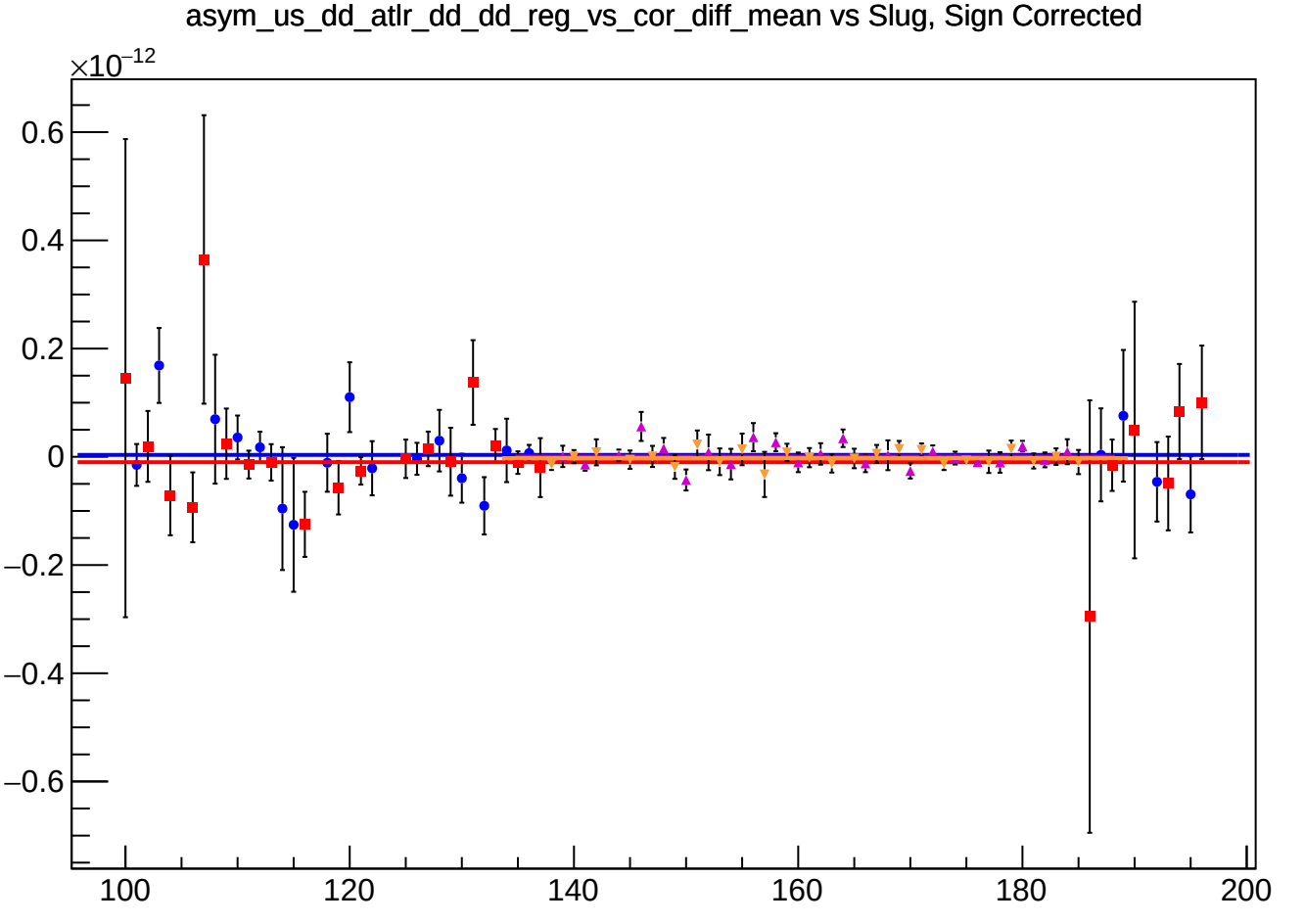
Left: 1180.812+/-0.138 $\chi^2$/NDF: 125088.5/46

Right: 1301.214+/-0.204 $\chi^2$/NDF: 1687782.5/43

In: 1212.249+/-0.163 $\chi^2$/NDF:1009415.2/42

Out: 1224.203+/-0.160 $\chi^2$/NDF:1039553.1/47

All: 1218.352+/-0.114 $\chi^2$/NDF: 2051710.0/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.3/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:10.5/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.1/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:32.5/22

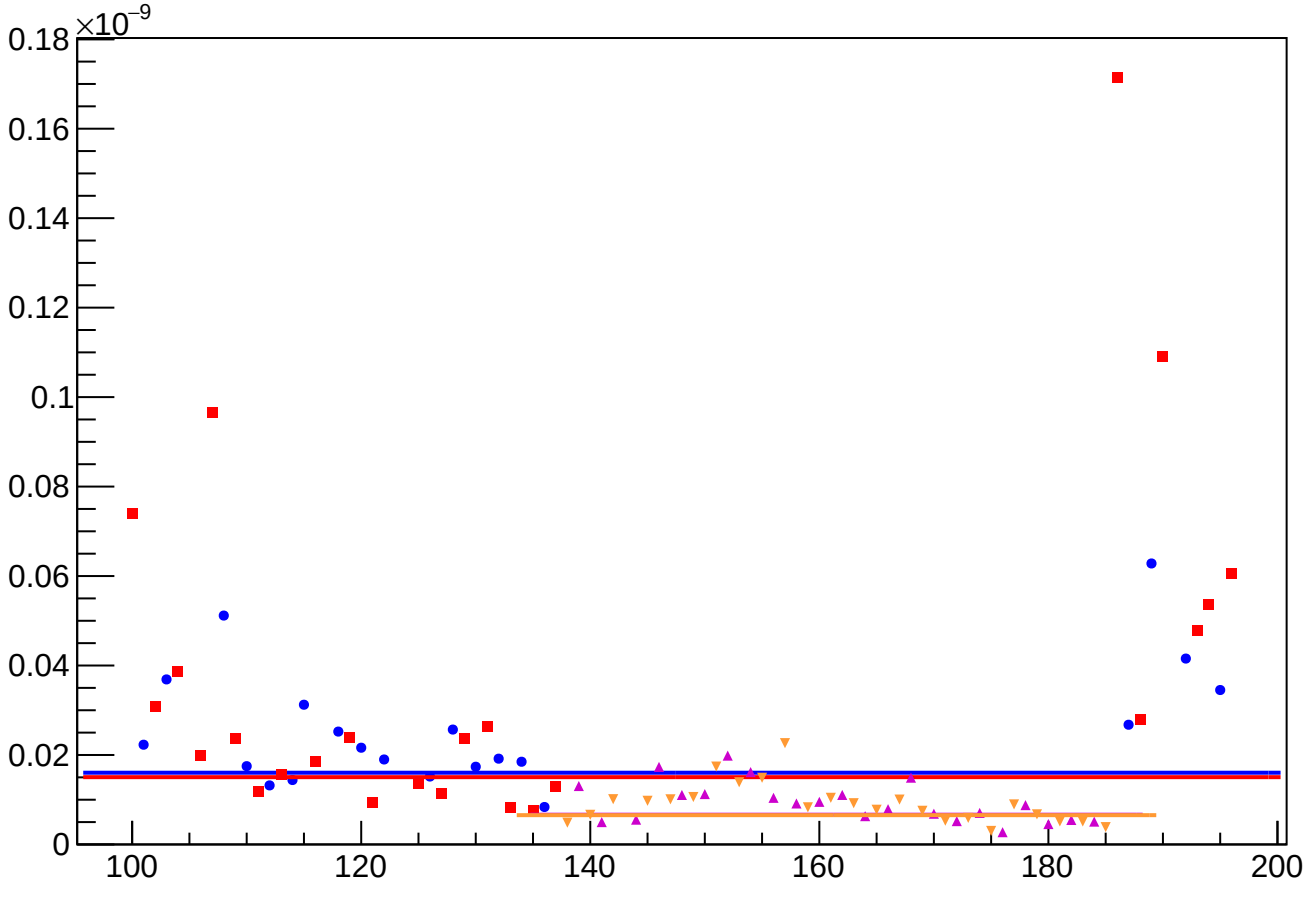
Left: -0.000+/-0.000 $\chi^2$/NDF: 43.4/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 37.4/43

In: 0.000+/-0.000 $\chi^2$/NDF:50.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:29.2/47

All: -0.000+/-0.000 $\chi^2$/NDF: 81.0/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1819997.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2332749.6/23

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3084814.1/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:2542530.1/22

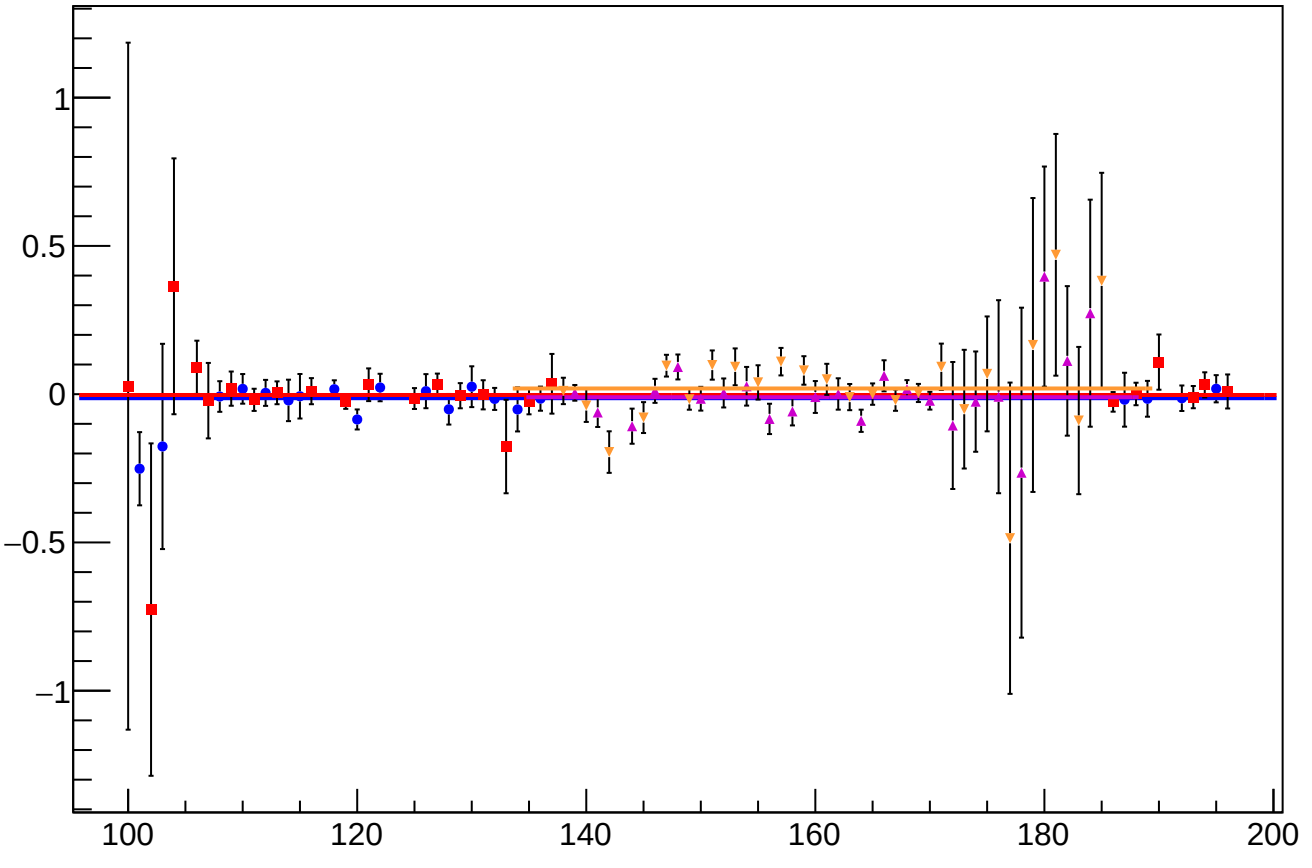
Left: 0.000+/-0.000 $\chi^2$/NDF: 4876422.9/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 4916414.3/43

In: 0.000+/-0.000 $\chi^2$/NDF:6166405.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7003539.3/47

All: 0.000+/-0.000 $\chi^2$/NDF: 13172866.0/90




Right In: -0.014+/-0.011 $\chi^2$/NDF: 12.4/19

Left Out: 0.019+/-0.011 $\chi^2$/NDF:35.9/23

Right Out: -0.003+/-0.010 $\chi^2$/NDF: 10.5/23

Left In: -0.010+/-0.010 $\chi^2$/NDF:23.6/22

Left: 0.004+/-0.007 $\chi^2$/NDF: 63.5/46

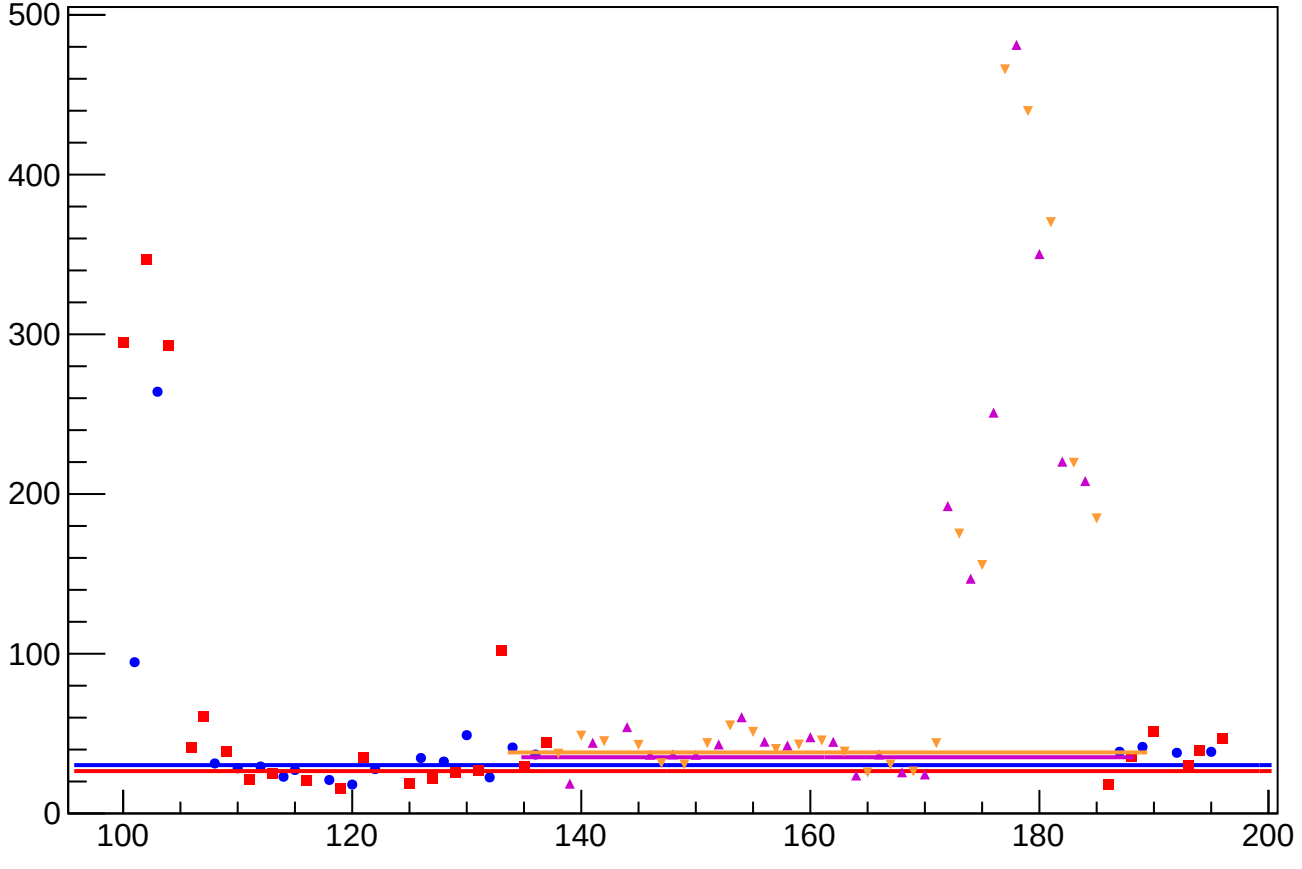
Right: -0.007+/-0.007 $\chi^2$/NDF: 23.5/43

In: -0.012+/-0.008 $\chi^2$/NDF:36.1/42

Out: 0.007+/-0.007 $\chi^2$/NDF:48.8/47

All: -0.002+/-0.005 $\chi^2$/NDF: 88.1/90

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.267+/-0.008 $\chi^2$/NDF: 2509160.9/19

Left Out: 38.211+/-0.008 $\chi^2$/NDF:8285024.8/23

Right Out: 26.528+/-0.007 $\chi^2$/NDF: 3850782.9/23

Left In: 35.195+/-0.007 $\chi^2$/NDF:9390926.6/22

Left: 36.625+/-0.005 $\chi^2$/NDF: 17757838.6/46

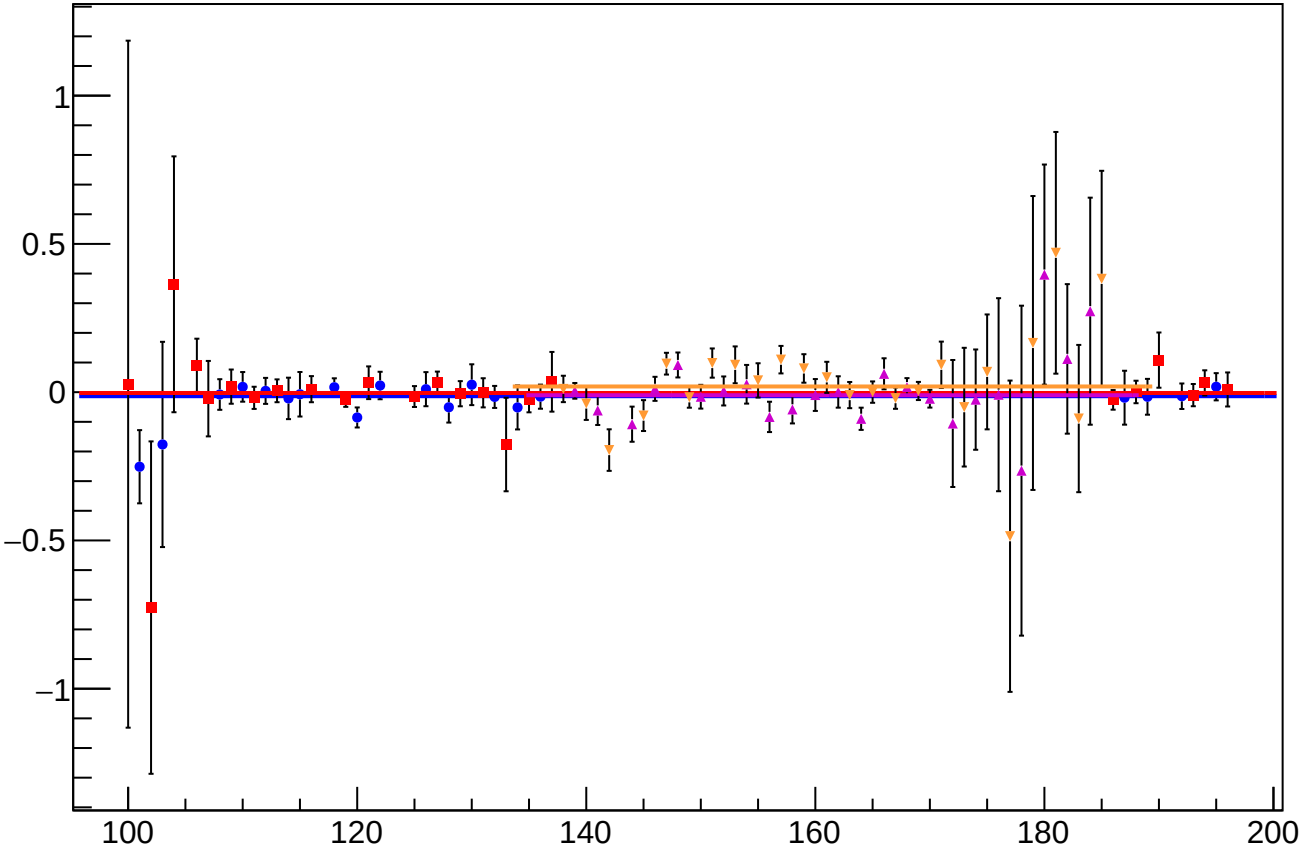
Right: 28.109+/-0.005 $\chi^2$/NDF: 6489275.0/43

In: 32.940+/-0.005 $\chi^2$/NDF:12111160.2/42

Out: 31.658+/-0.005 $\chi^2$/NDF:13446851.0/47

All: 32.264+/-0.004 $\chi^2$/NDF: 25588333.2/90

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.014+/-0.011 $\chi^2$/NDF: 12.4/19

Left Out: 0.019+/-0.011 $\chi^2$/NDF:35.9/23

Right Out: -0.003+/-0.010 $\chi^2$/NDF: 10.5/23

Left In: -0.010+/-0.010 $\chi^2$/NDF:23.6/22

Left: 0.004+/-0.007 $\chi^2$/NDF: 63.5/46

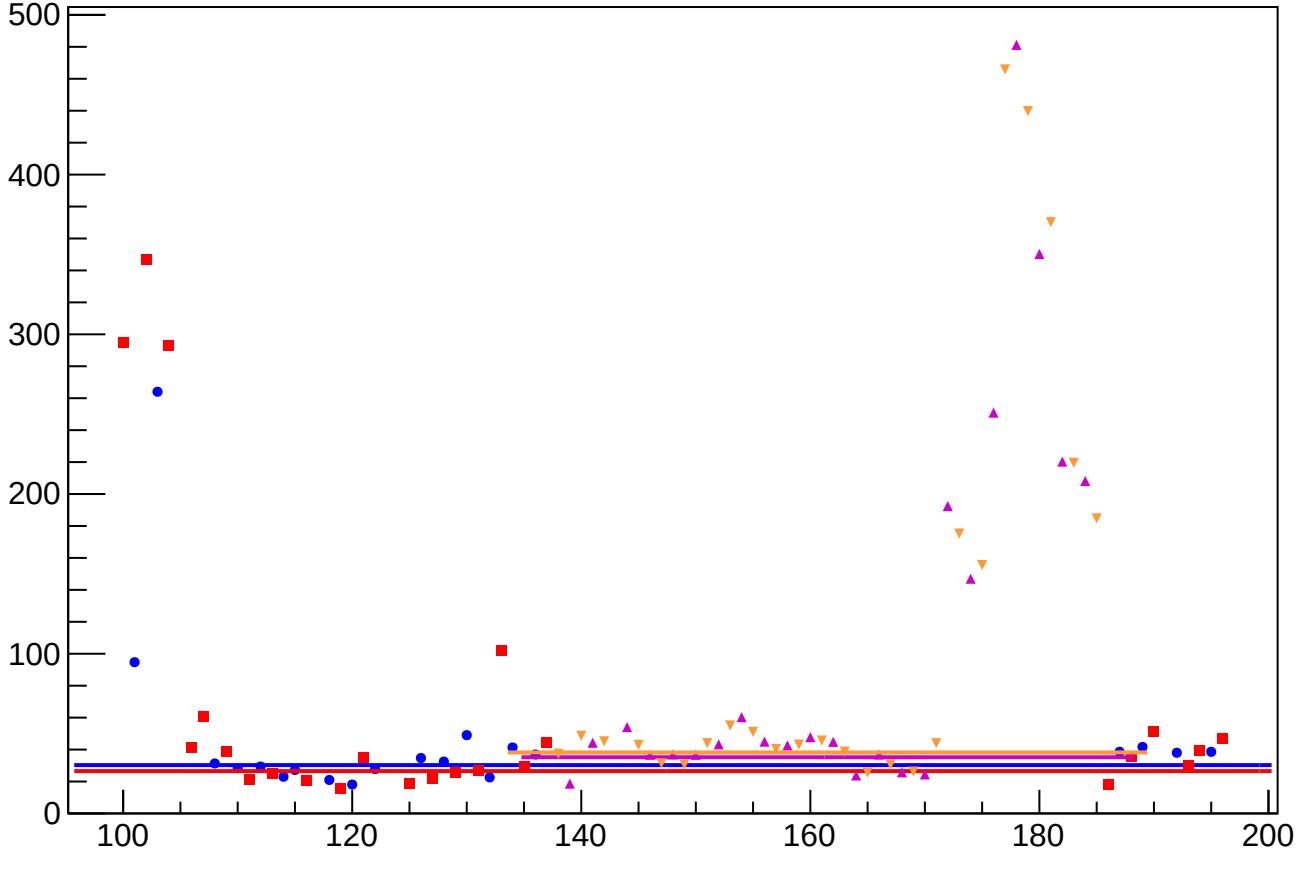
Right: -0.007+/-0.007 $\chi^2$/NDF: 23.5/43

In: -0.012+/-0.008 $\chi^2$/NDF:36.1/42

Out: 0.007+/-0.007 $\chi^2$/NDF:48.8/47

All: -0.002+/-0.005 $\chi^2$/NDF: 88.1/90

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.267+/-0.008 $\chi^2$/NDF: 2509160.9/19

Left Out: 38.211+/-0.008 $\chi^2$/NDF:8285024.8/23

Right Out: 26.528+/-0.007 $\chi^2$/NDF: 3850782.9/23

Left In: 35.195+/-0.007 $\chi^2$/NDF:9390926.6/22

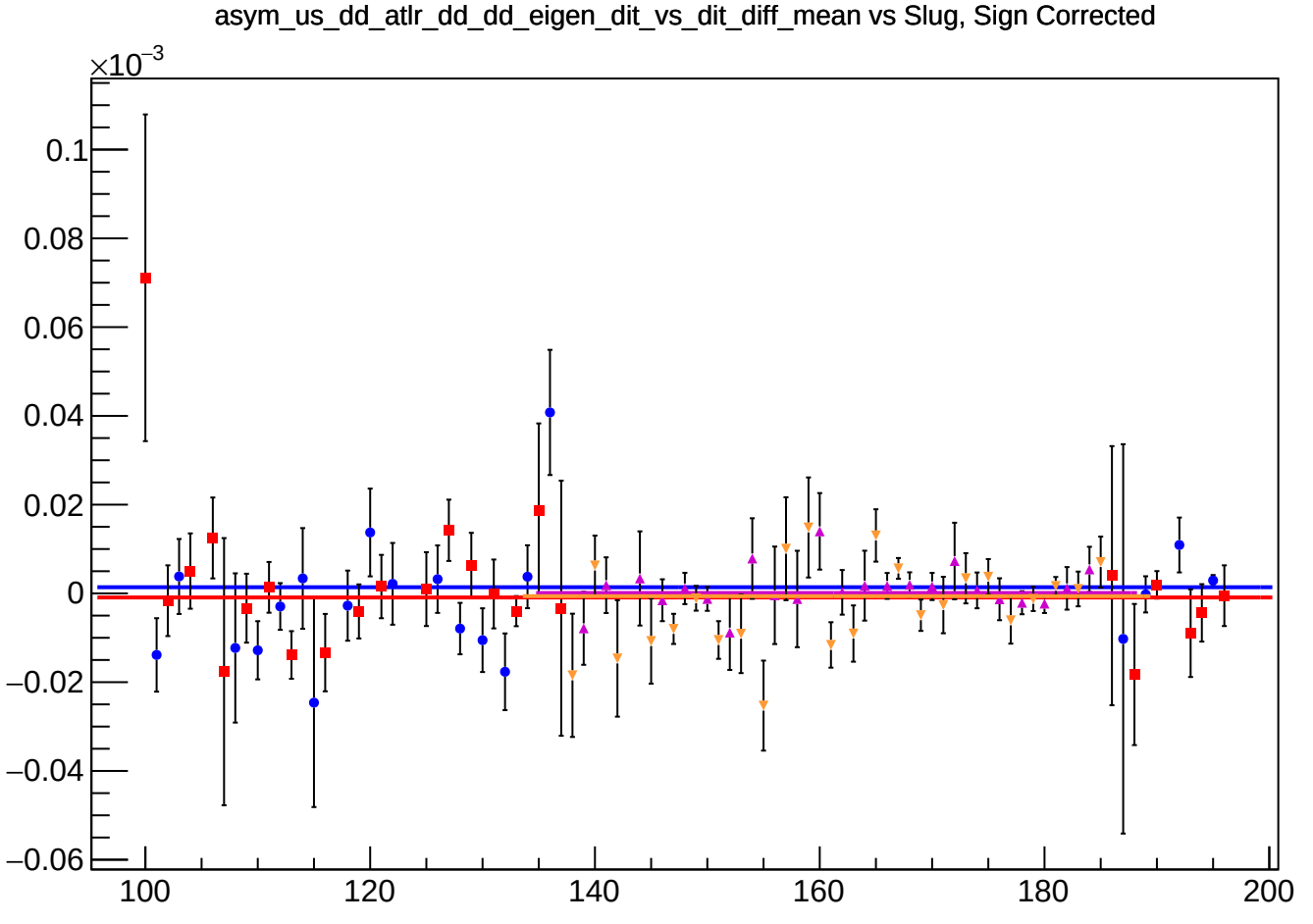
Left: 36.625+/-0.005 $\chi^2$/NDF: 17757838.6/46

Right: 28.109+/-0.005 $\chi^2$/NDF: 6489275.0/43

In: 32.940+/-0.005 $\chi^2$/NDF:12111160.2/42

Out: 31.658+/-0.005 $\chi^2$/NDF:13446851.0/47

All: 32.264+/-0.004 $\chi^2$/NDF: 25588333.2/90




Right In: 0.000+/-0.000 $\chi^2$/NDF: 35.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:51.2/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.0/23

Left In: 0.000+/-0.000 $\chi^2$/NDF:11.0/22

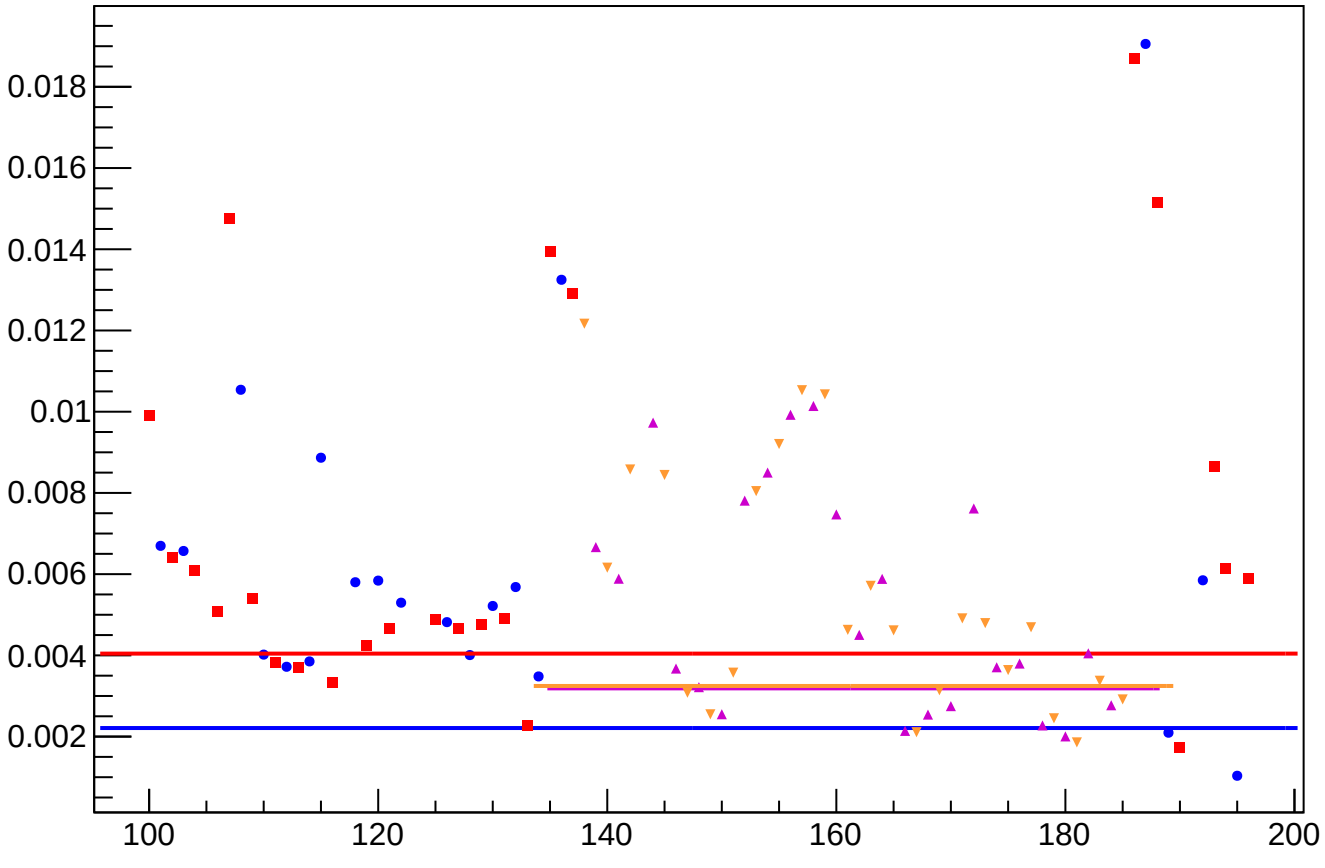
Left: -0.000+/-0.000 $\chi^2$/NDF: 62.5/46

Right: 0.000+/-0.000 $\chi^2$/NDF: 62.8/43

In: 0.000+/-0.000 $\chi^2$/NDF:46.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:77.2/47

All: 0.000+/-0.000 $\chi^2$/NDF: 126.0/90




Right In: 0.002+/-0.000 $\chi^2$/NDF: 8274166.9/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7736973.1/23

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 5437765.5/23

Left In: 0.003+/-0.000 $\chi^2$/NDF:7301771.9/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 15043467.2/46

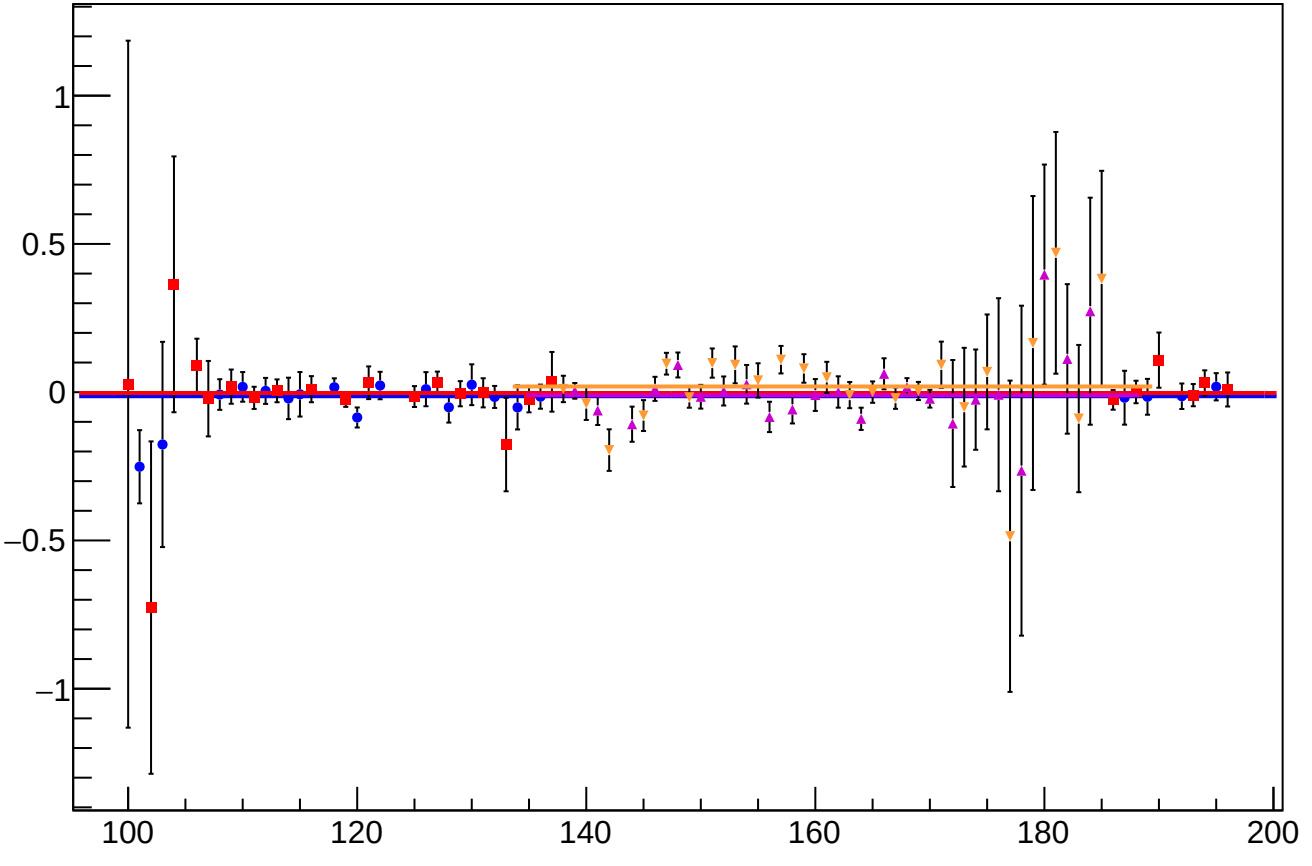
Right: 0.003+/-0.000 $\chi^2$/NDF: 15988192.3/43

In: 0.003+/-0.000 $\chi^2$/NDF:16673630.9/42

Out: 0.003+/-0.000 $\chi^2$/NDF:13644534.8/47

All: 0.003+/-0.000 $\chi^2$/NDF: 31321167.4/90

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.014+/-0.011 $\chi^2$/NDF: 12.4/19

Left Out: 0.019+/-0.011 $\chi^2$/NDF:35.9/23

Right Out: -0.003+/-0.010 $\chi^2$/NDF: 10.5/23

Left In: -0.010+/-0.010 $\chi^2$/NDF:23.6/22

Left: 0.004+/-0.007 $\chi^2$/NDF: 63.5/46

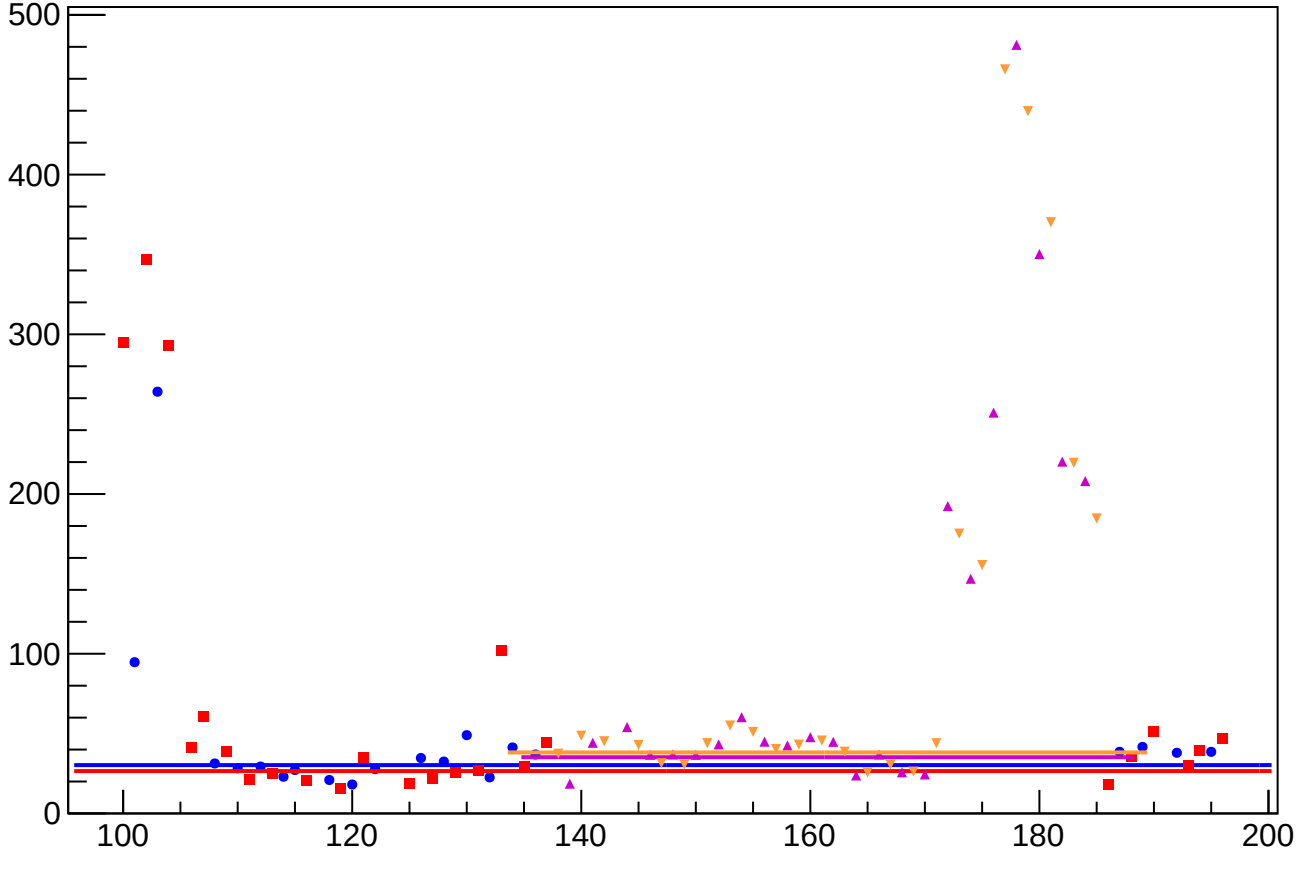
Right: -0.007+/-0.007 $\chi^2$/NDF: 23.5/43

In: -0.012+/-0.008 $\chi^2$/NDF:36.1/42

Out: 0.007+/-0.007 $\chi^2$/NDF:48.8/47

All: -0.002+/-0.005 $\chi^2$/NDF: 88.1/90

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.267+/-0.008 $\chi^2$/NDF: 2509194.4/19

Left Out: 38.210+/-0.008 $\chi^2$/NDF:8285200.7/23

Right Out: 26.525+/-0.007 $\chi^2$/NDF: 3851066.5/23

Left In: 35.195+/-0.007 $\chi^2$/NDF:9391361.4/22

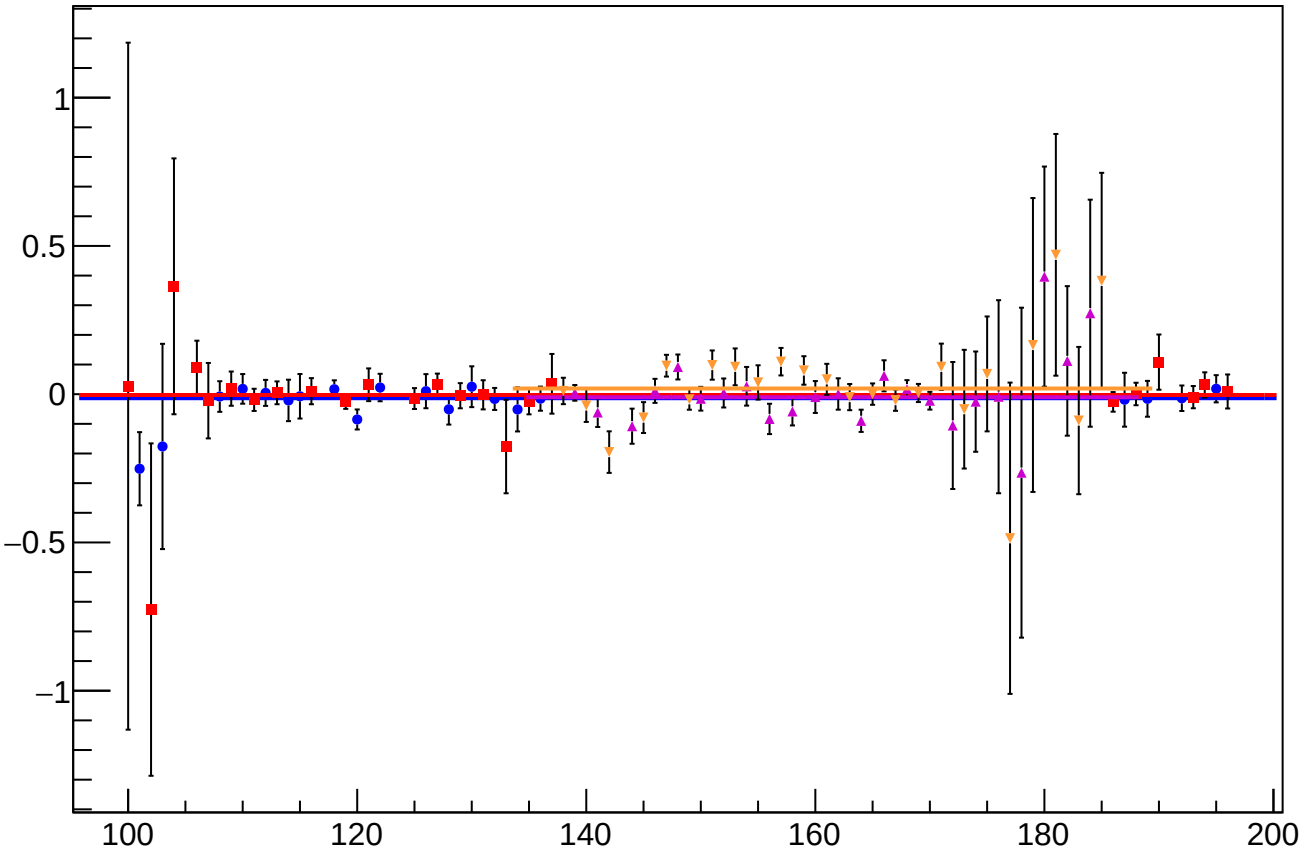
Left: 36.625+/-0.005 $\chi^2$/NDF: 17758448.1/46

Right: 28.107+/-0.005 $\chi^2$/NDF: 6489746.2/43

In: 32.939+/-0.005 $\chi^2$/NDF:12111600.2/42

Out: 31.656+/-0.005 $\chi^2$/NDF:13447779.6/47

All: 32.263+/-0.004 $\chi^2$/NDF: 25589774.6/90




Right In: -0.014+/-0.011 $\chi^2$/NDF: 12.4/19

Left Out: 0.019+/-0.011 $\chi^2$/NDF:35.9/23

Right Out: -0.003+/-0.010 $\chi^2$/NDF: 10.5/23

Left In: -0.010+/-0.010 $\chi^2$/NDF:23.6/22

Left: 0.004+/-0.007 $\chi^2$/NDF: 63.5/46

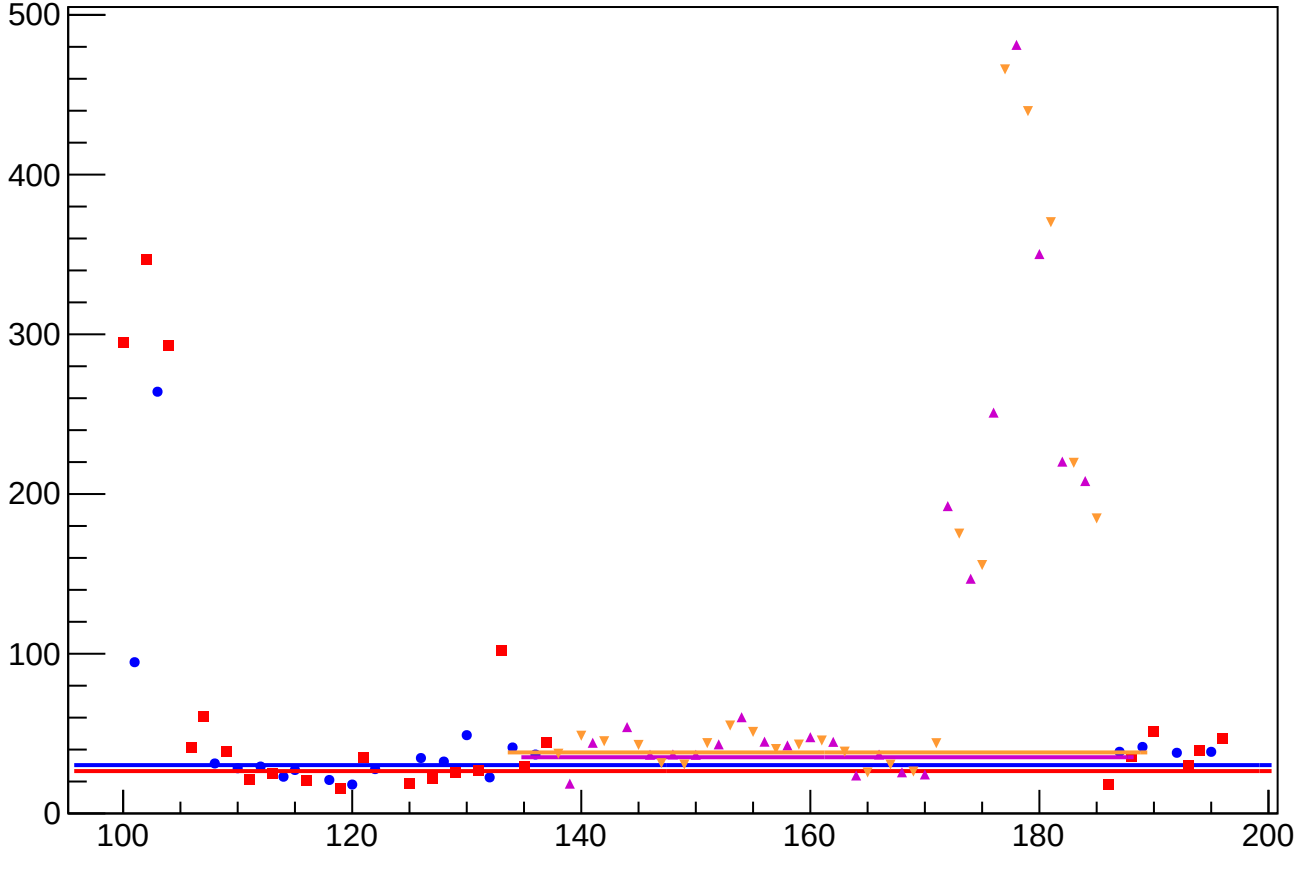
Right: -0.007+/-0.007 $\chi^2$/NDF: 23.5/43

In: -0.012+/-0.008 $\chi^2$/NDF:36.1/42

Out: 0.007+/-0.007 $\chi^2$/NDF:48.8/47

All: -0.002+/-0.005 $\chi^2$/NDF: 88.1/90

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 30.267+/-0.008 $\chi^2$/NDF: 2509194.4/19

Left Out: 38.210+/-0.008 $\chi^2$/NDF:8285200.7/23

Right Out: 26.525+/-0.007 $\chi^2$/NDF: 3851066.5/23

Left In: 35.195+/-0.007 $\chi^2$/NDF:9391361.4/22

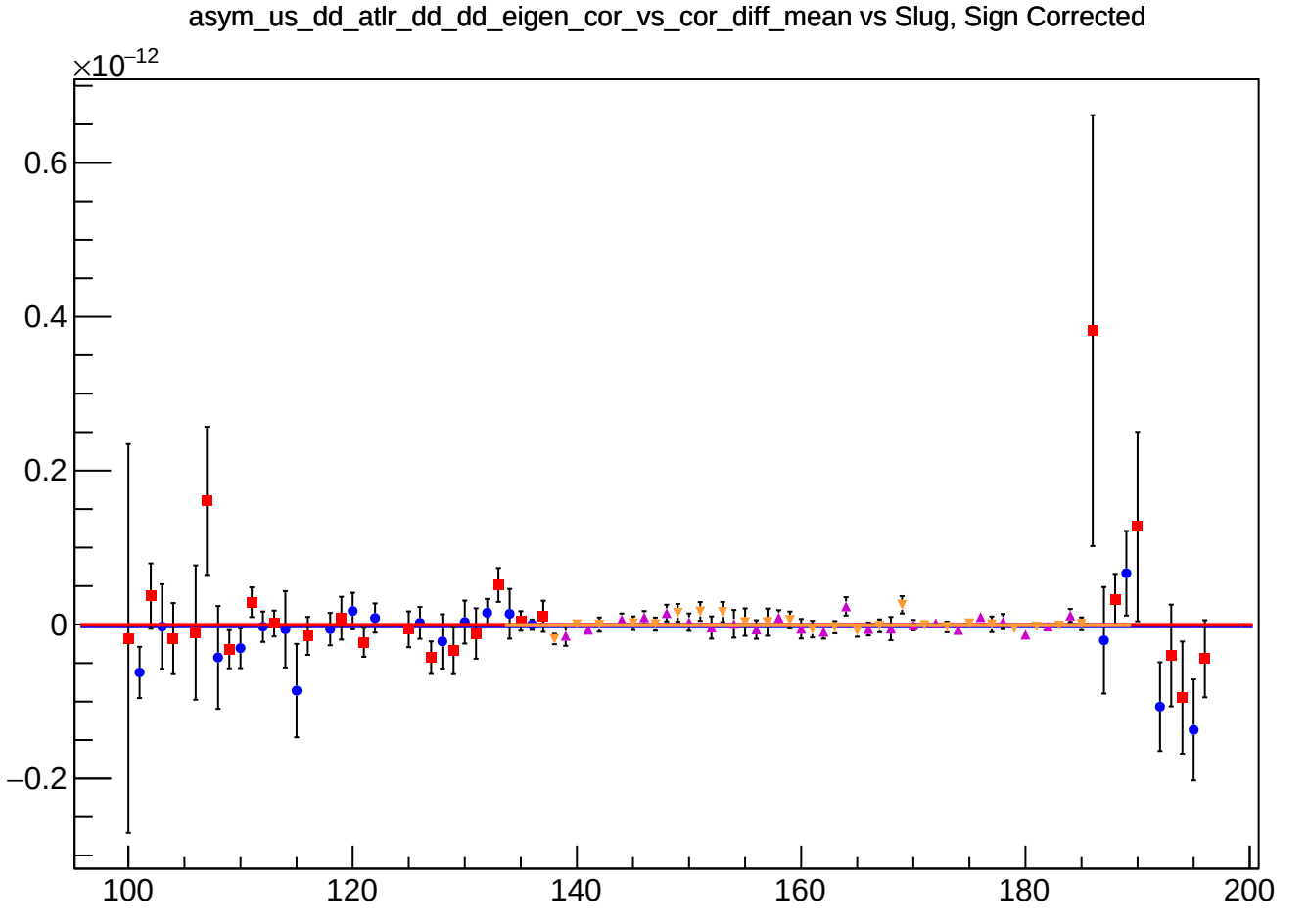
Left: 36.625+/-0.005 $\chi^2$/NDF: 17758448.1/46

Right: 28.107+/-0.005 $\chi^2$/NDF: 6489746.2/43

In: 32.939+/-0.005 $\chi^2$/NDF:12111600.2/42

Out: 31.656+/-0.005 $\chi^2$/NDF:13447779.6/47

All: 32.263+/-0.004 $\chi^2$/NDF: 25589774.6/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.1/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.8/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:26.2/22

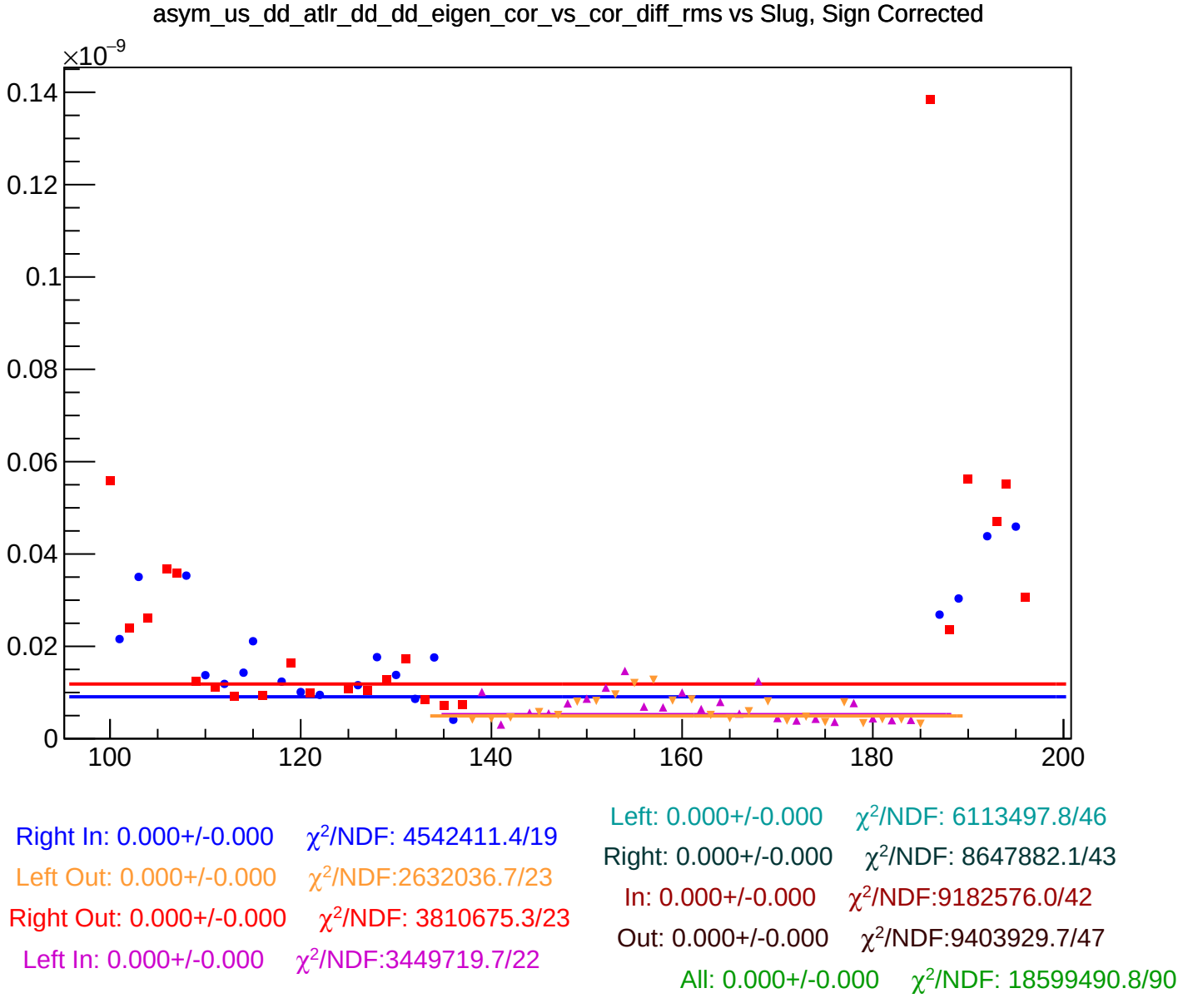
Left: -0.000+/-0.000 $\chi^2$/NDF: 47.4/46

Right: -0.000+/-0.000 $\chi^2$/NDF: 46.5/43

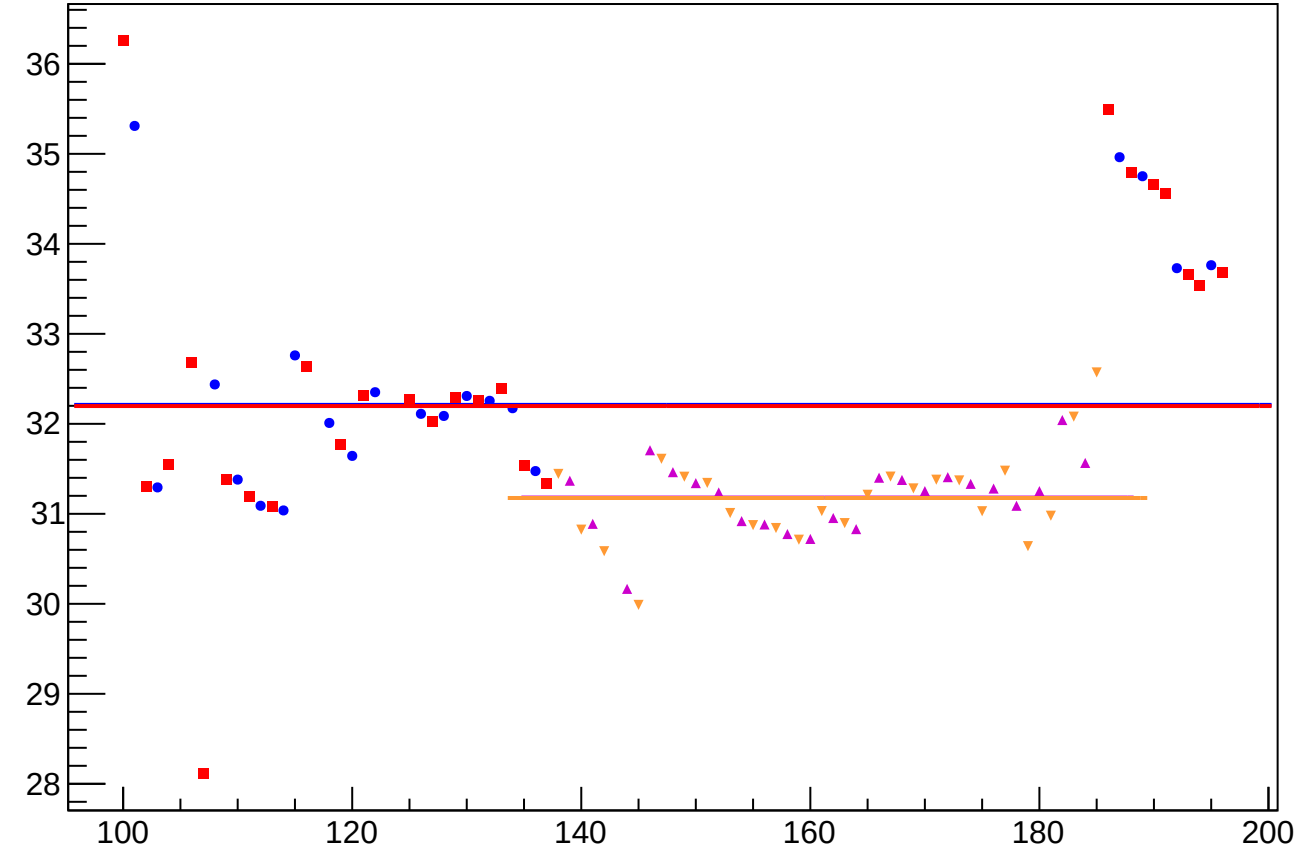
In: -0.000+/-0.000 $\chi^2$/NDF:45.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.0/47

All: -0.000+/-0.000 $\chi^2$/NDF: 93.9/90


asym_us_dd_atlr_dd_dd_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4542411.4/19
Left Out: 0.000+/-0.000 χ²/NDF:2632036.7/23
Right Out: 0.000+/-0.000 χ²/NDF: 3810675.3/23
Left In: 0.000+/-0.000 χ²/NDF:3449719.7/22
Left: 0.000+/-0.000 χ²/NDF: 6113497.8/46
Right: 0.000+/-0.000 χ²/NDF: 8647882.1/43
In: 0.000+/-0.000 χ²/NDF:9182576.0/42
Out: 0.000+/-0.000 χ²/NDF:9403929.7/47
All: 0.000+/-0.000 χ²/NDF: 18599490.8/90

# yield_usl_mean vs Slug, Sign Corrected




Right In: 32.210+/-0.000 $\chi^2$/NDF: 1366070219.3/19

Left Out: 31.176+/-0.000 $\chi^2$/NDF:529824418.6/23

Right Out: 32.198+/-0.000 $\chi^2$/NDF: 1523063563.1/24

Left In: 31.181+/-0.000 $\chi^2$/NDF:376263410.1/22

Left: 31.178+/-0.000 $\chi^2$/NDF: 906123108.5/46

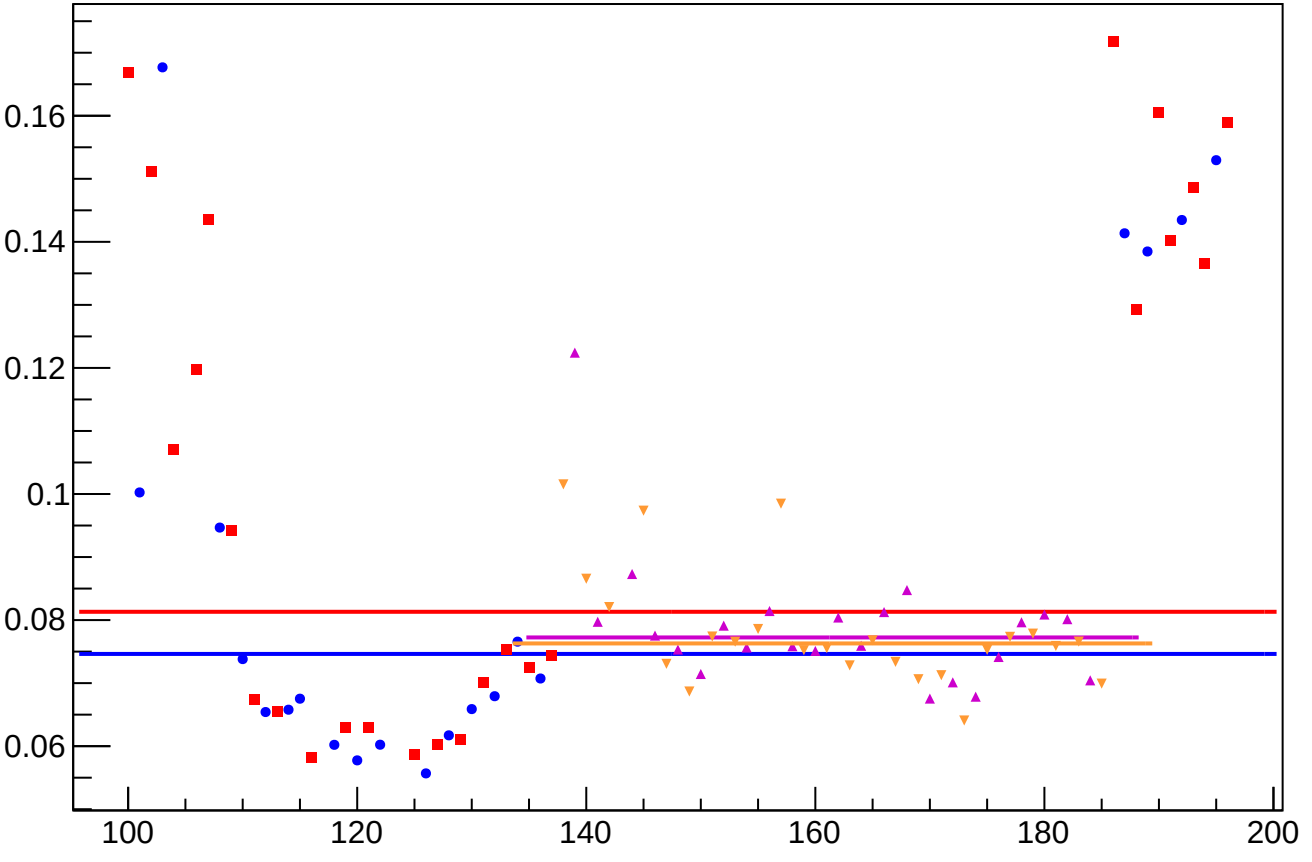
Right: 32.204+/-0.000 $\chi^2$/NDF: 2889252350.4/44

In: 31.535+/-0.000 $\chi^2$/NDF:2753951442.7/42

Out: 31.518+/-0.000 $\chi^2$/NDF:3059474622.3/48

All: 31.527+/-0.000 $\chi^2$/NDF: 5814071685.3/9

# yield_usl_rms vs Slug, Sign Corrected




Right In: 0.075+/-0.000 $\chi^2$/NDF: 1989817.7/19

Left Out: 0.076+/-0.000 $\chi^2$/NDF:356697.3/23

Right Out: 0.081+/-0.000 $\chi^2$/NDF: 2841379.1/24

Left In: 0.077+/-0.000 $\chi^2$/NDF:365206.5/22

Left: 0.077+/-0.000 $\chi^2$/NDF: 724458.6/46

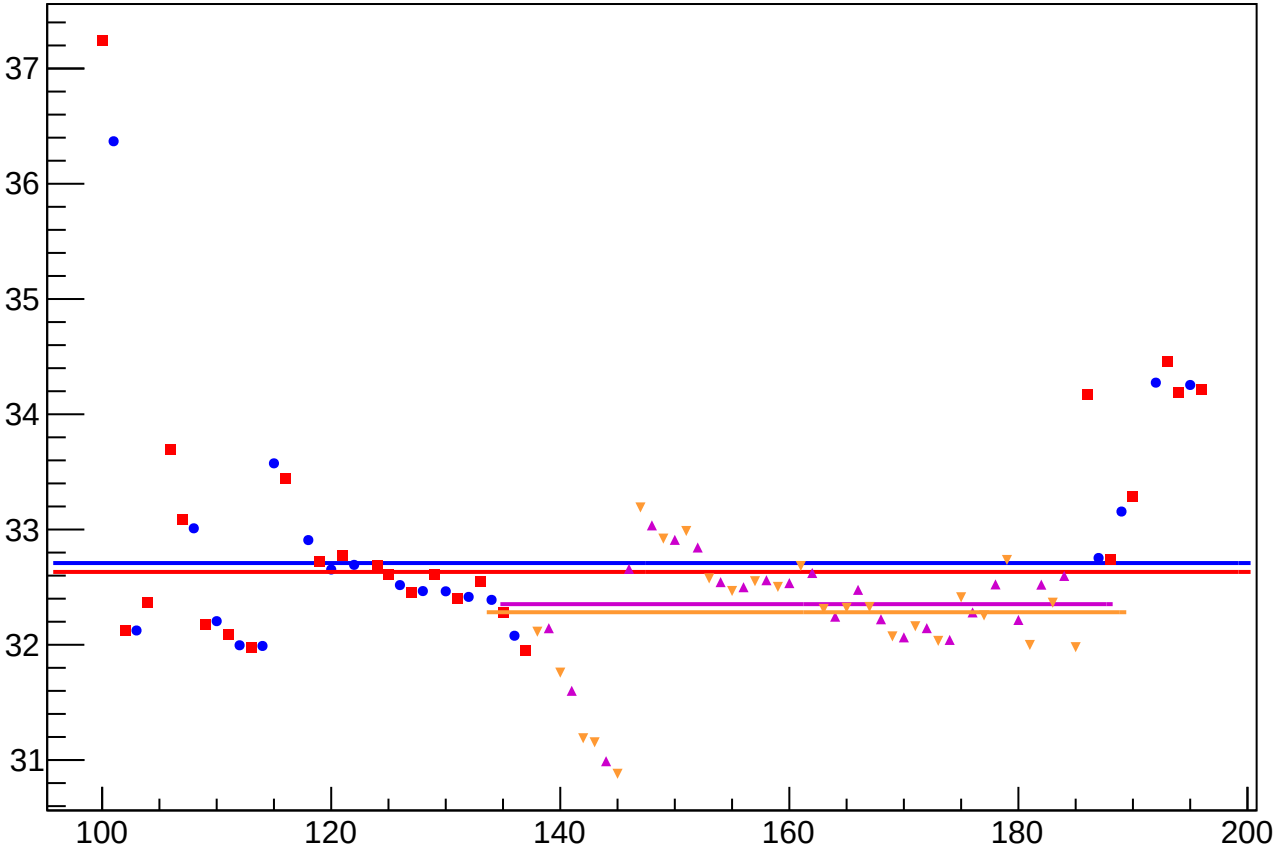
Right: 0.078+/-0.000 $\chi^2$/NDF: 4896111.3/44

In: 0.076+/-0.000 $\chi^2$/NDF:2368075.8/42

Out: 0.078+/-0.000 $\chi^2$/NDF:3246690.7/48

All: 0.077+/-0.000 $\chi^2$/NDF: 5626143.2/91

# yield_usr_mean vs Slug, Sign Corrected




Right In: 32.709+/-0.000 $\chi^2$/NDF: 845241405.3/19

Left Out: 32.282+/-0.000 $\chi^2$/NDF:838959313.2/24

Right Out: 32.632+/-0.000 $\chi^2$/NDF: 373348897.0/24

Left In: 32.353+/-0.000 $\chi^2$/NDF:589893462.0/22

Left: 32.317+/-0.000 $\chi^2$/NDF: 1436074258.4/47

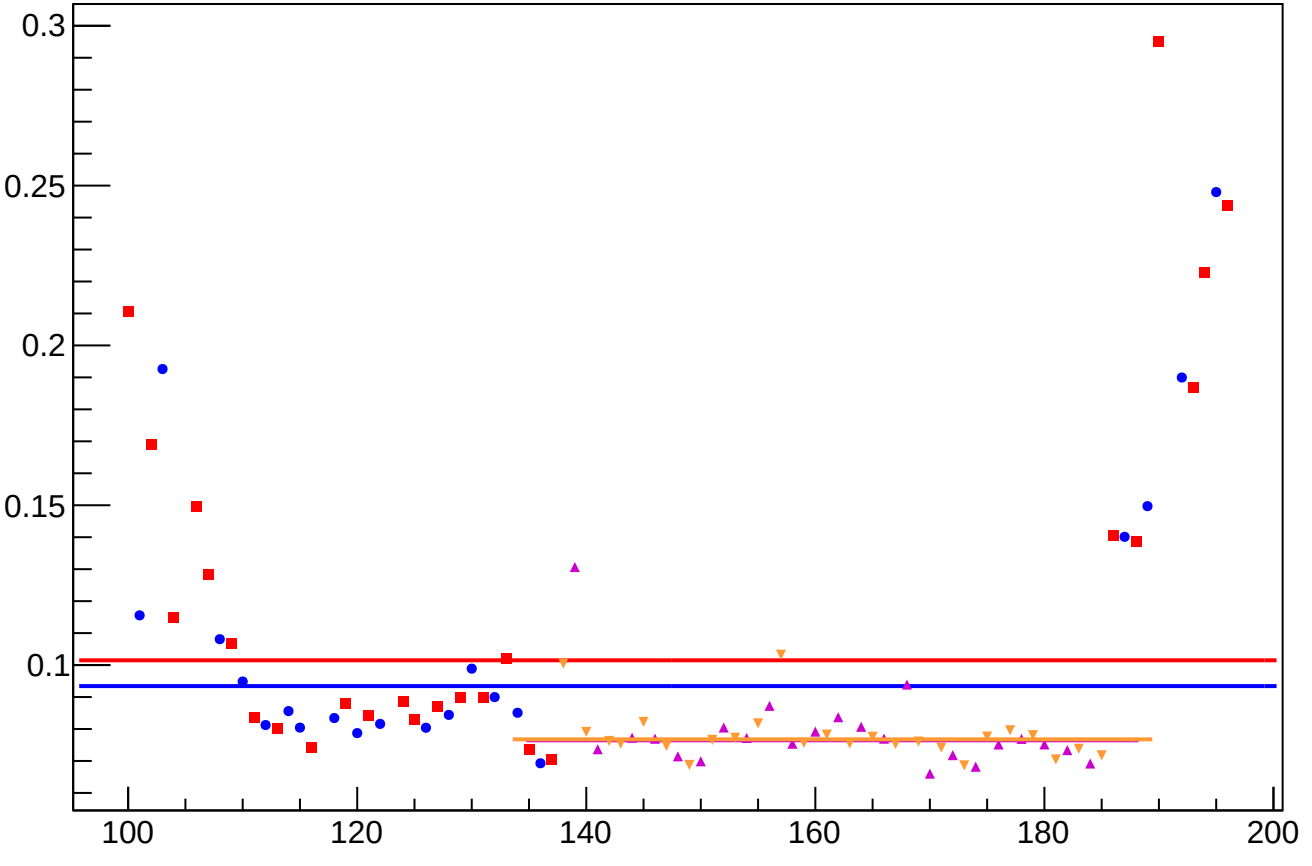
Right: 32.670+/-0.000 $\chi^2$/NDF: 1221306778.7/44

In: 32.438+/-0.000 $\chi^2$/NDF:1523241551.7/42

Out: 32.364+/-0.000 $\chi^2$/NDF:1298030296.4/49

All: 32.401+/-0.000 $\chi^2$/NDF: 2831886264.5/9

# yield_usr_rms vs Slug, Sign Corrected




Right In: 0.093+/-0.000 $\chi^2$/NDF: 1963185.9/19

Left Out: 0.077+/-0.000 $\chi^2$/NDF:250795.7/24

Right Out: 0.101+/-0.000 $\chi^2$/NDF: 2666121.7/24

Left In: 0.076+/-0.000 $\chi^2$/NDF:482593.3/22

Left: 0.077+/-0.000 $\chi^2$/NDF: 733655.0/47

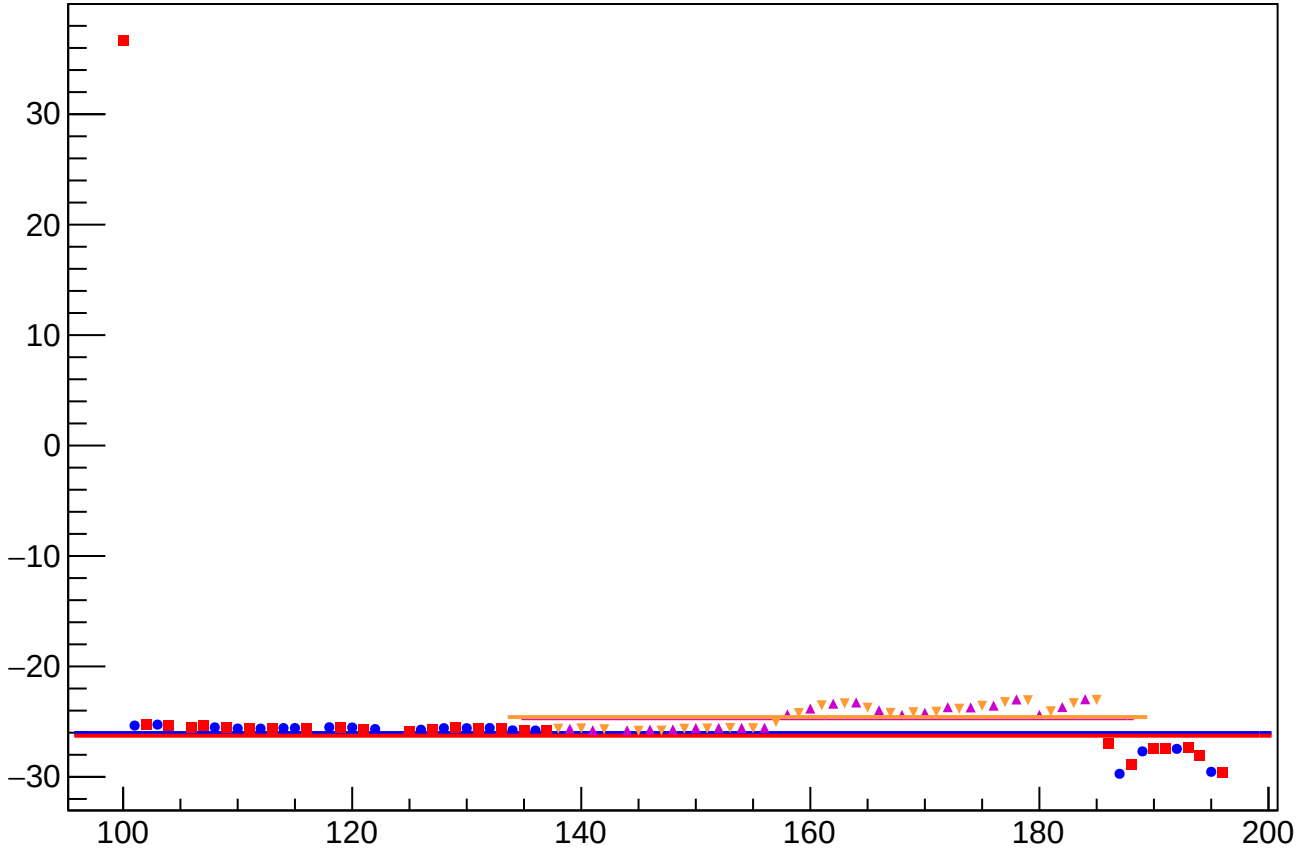
Right: 0.097+/-0.000 $\chi^2$/NDF: 4688839.1/44

In: 0.081+/-0.000 $\chi^2$/NDF:2844170.9/42

Out: 0.083+/-0.000 $\chi^2$/NDF:3774384.3/49

All: 0.082+/-0.000 $\chi^2$/NDF: 6633949.3/92

# yield_dsl_mean vs Slug, Sign Corrected




Right In: -26.031+/-0.000 $\chi^2$/NDF: 5786533324.9/19

Left Out: -24.587+/-0.000 $\chi^2$/NDF:9182387434.6/23

Right Out: -26.270+/-0.000 $\chi^2$/NDF: 17662343879.2/24

Left In: -24.689+/-0.000 $\chi^2$/NDF:8820957974.3/22

Left: -24.638+/-0.000 $\chi^2$/NDF: 18048773381.1/46

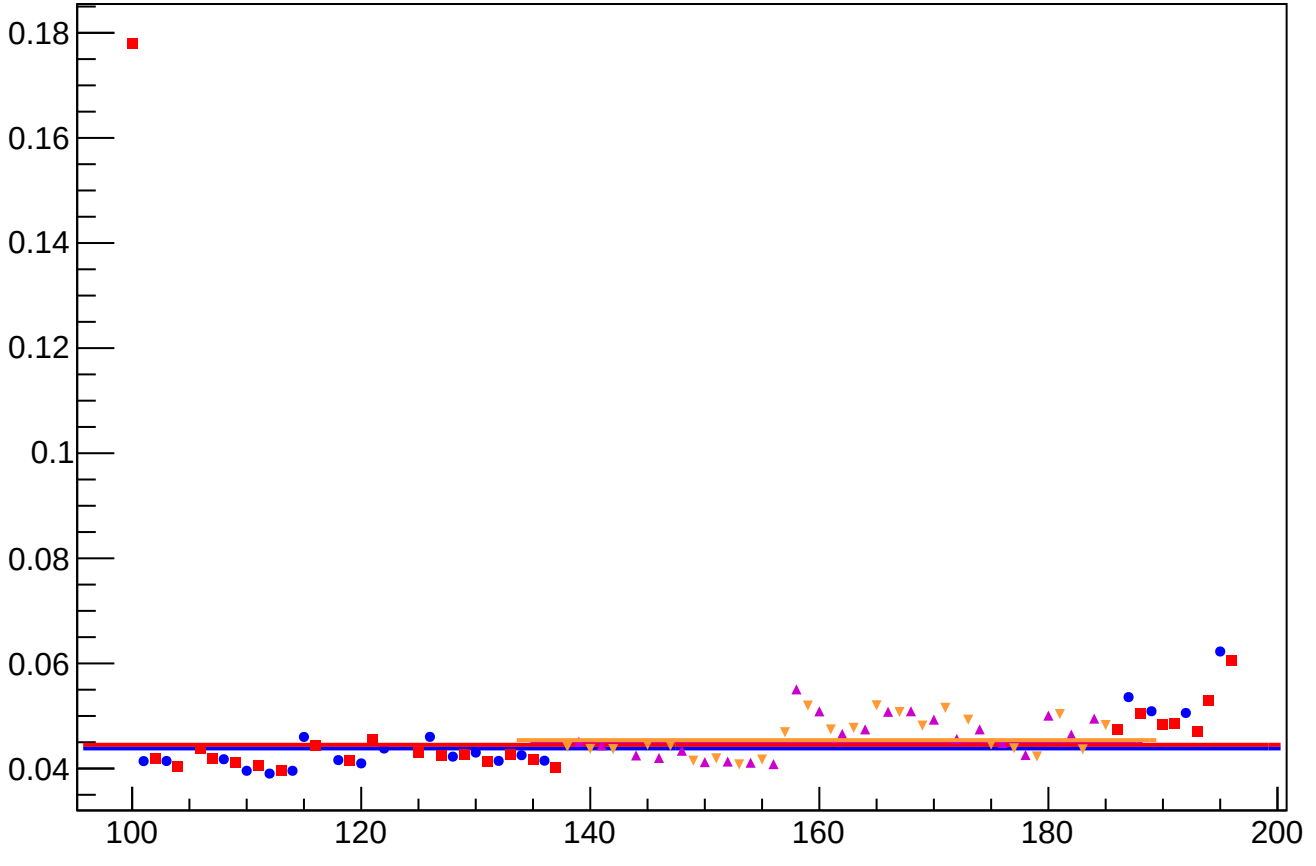
Right: -26.160+/-0.000 $\chi^2$/NDF: 23601608961.6/44

In: -25.176+/-0.000 $\chi^2$/NDF:20306986016.9/42

Out: -25.258+/-0.000 $\chi^2$/NDF:36709388883.1/48

All: -25.218+/-0.000 $\chi^2$/NDF: 57063999179.9

# yield_dsl_rms vs Slug, Sign Corrected




Right In: 0.044+/-0.000 $\chi^2$/NDF: 269071.5/19

Left Out: 0.045+/-0.000 $\chi^2$/NDF:205535.7/23

Right Out: 0.045+/-0.000 $\chi^2$/NDF: 351677.1/24

Left In: 0.045+/-0.000 $\chi^2$/NDF:244675.5/22

Left: 0.045+/-0.000 $\chi^2$/NDF: 450560.0/46

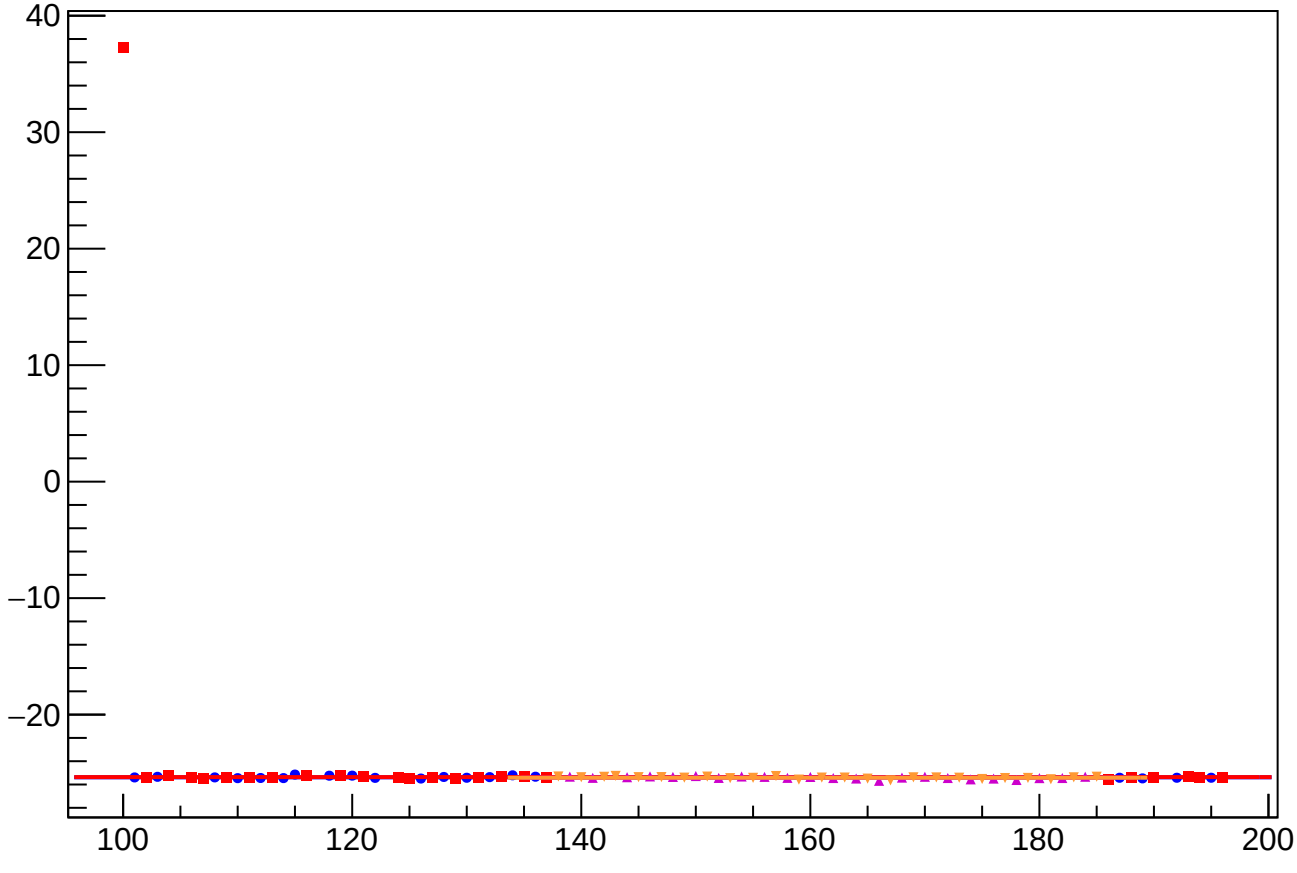
Right: 0.044+/-0.000 $\chi^2$/NDF: 623337.6/44

In: 0.045+/-0.000 $\chi^2$/NDF:525788.9/42

Out: 0.045+/-0.000 $\chi^2$/NDF:562649.8/48

All: 0.045+/-0.000 $\chi^2$/NDF: 1090146.6/91

# yield_dsr_mean vs Slug, Sign Corrected




Right In: -25.384+/-0.000 $\chi^2$/NDF: 17258472.3/19

Left Out: -25.417+/-0.000 $\chi^2$/NDF:52213098.9/24

Right Out: -25.364+/-0.000 $\chi^2$/NDF: 6329027923.3/24

Left In: -25.414+/-0.000 $\chi^2$/NDF:55851916.1/22

Left: -25.416+/-0.000 $\chi^2$/NDF: 108085070.9/47

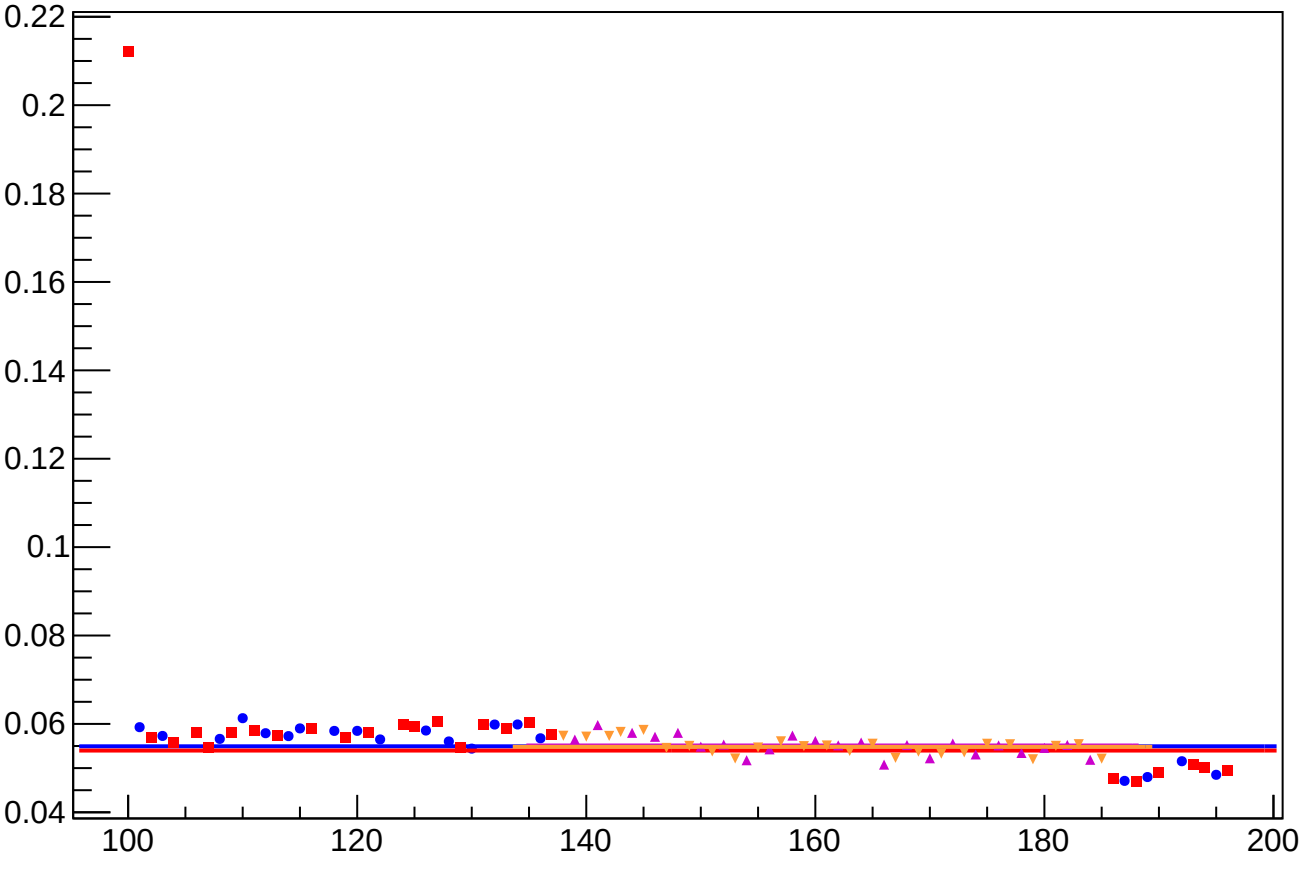
Right: -25.373+/-0.000 $\chi^2$/NDF: 6346955056.2/44

In: -25.404+/-0.000 $\chi^2$/NDF:75030147.9/42

Out: -25.396+/-0.000 $\chi^2$/NDF:6387920251.1/49

All: -25.400+/-0.000 $\chi^2$/NDF: 6463183266.5/

# yield_dsr_rms vs Slug, Sign Corrected




Right In: 0.055+/-0.000 $\chi^2$/NDF: 114782.0/19

Left Out: 0.055+/-0.000 $\chi^2$/NDF:38095.1/24

Right Out: 0.054+/-0.000 $\chi^2$/NDF: 251866.1/24

Left In: 0.055+/-0.000 $\chi^2$/NDF:51531.3/22

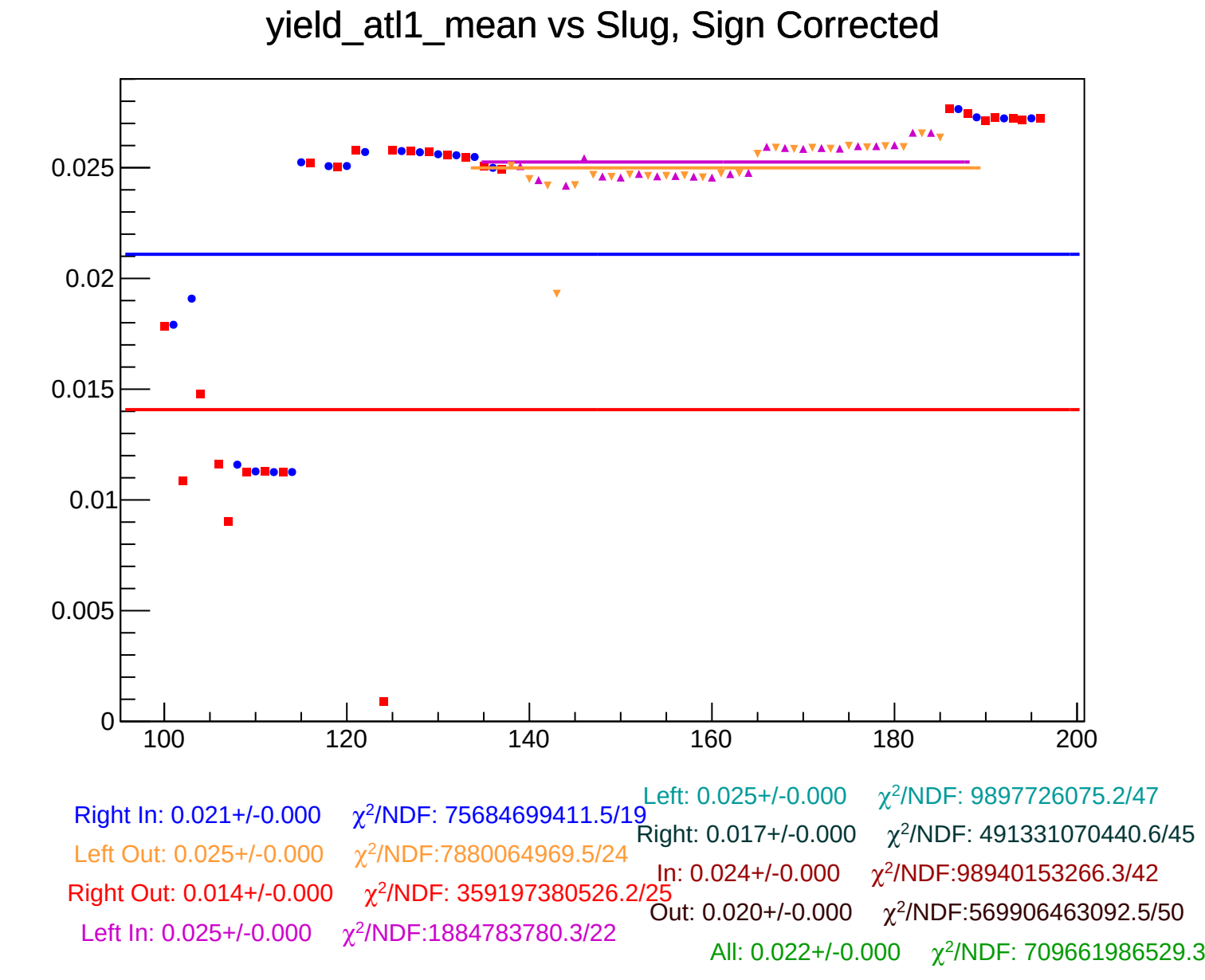
Left: 0.055+/-0.000 $\chi^2$/NDF: 90127.5/47

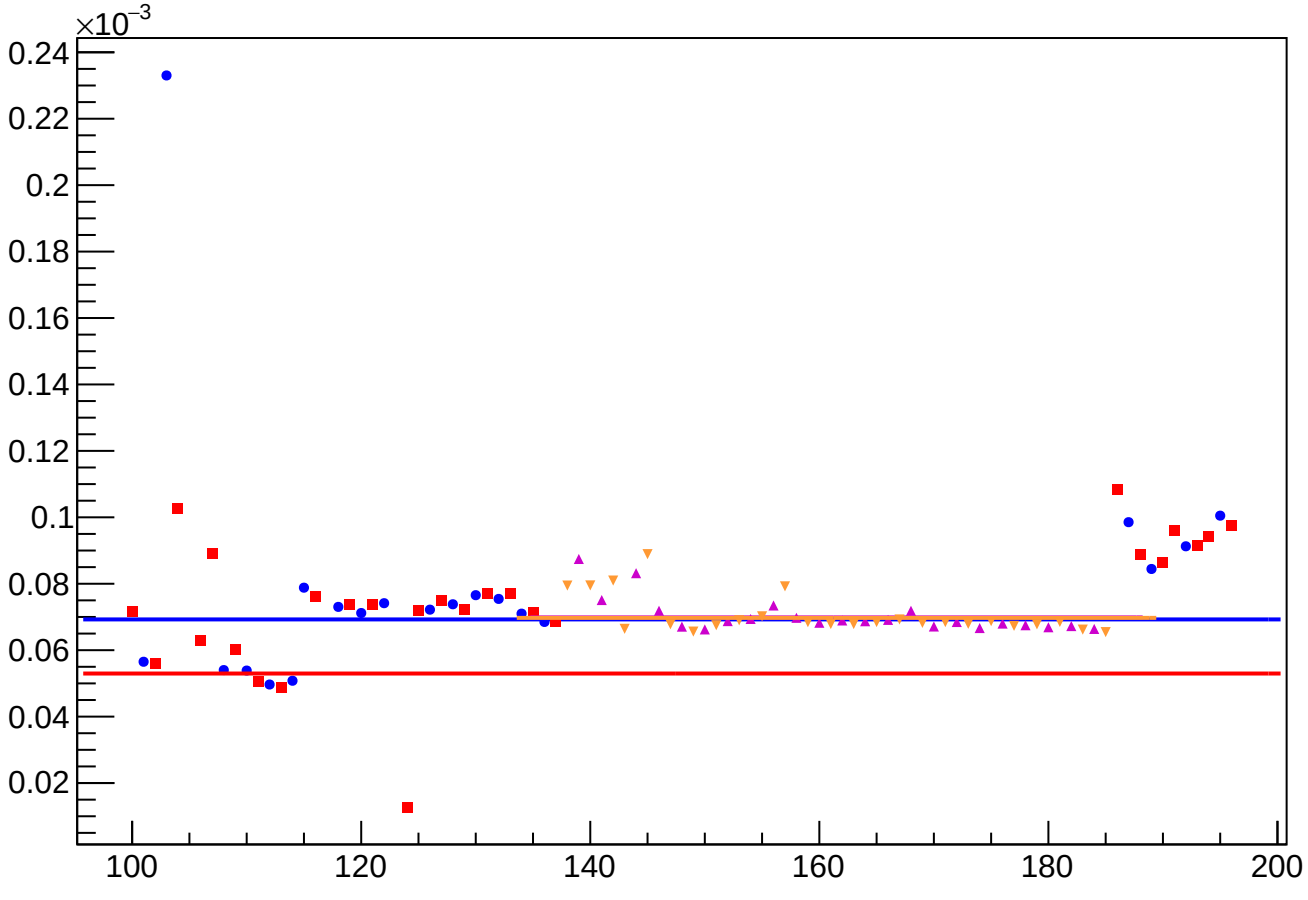
Right: 0.054+/-0.000 $\chi^2$/NDF: 369838.0/44

In: 0.055+/-0.000 $\chi^2$/NDF:166443.4/42

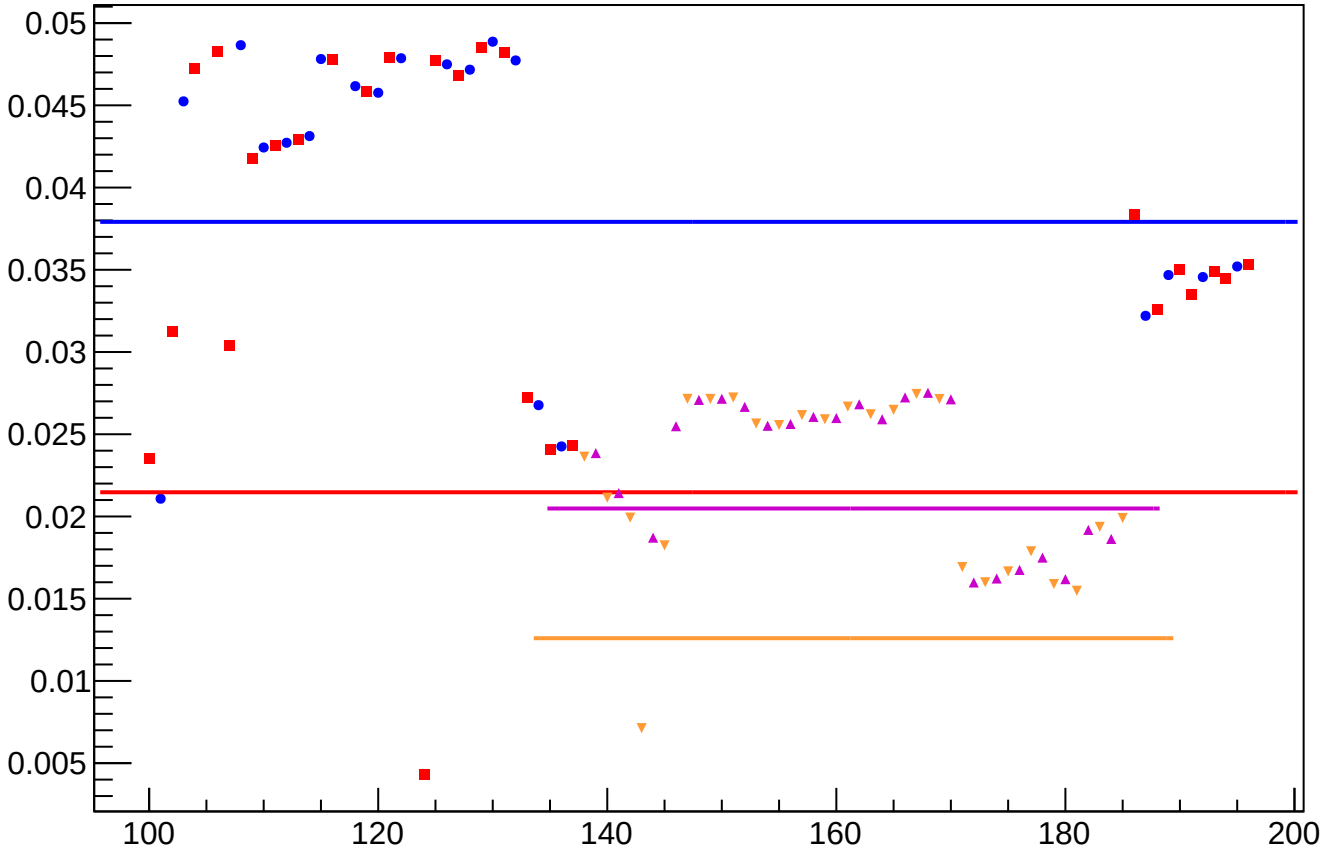
Out: 0.054+/-0.000 $\chi^2$/NDF:293400.8/49

All: 0.055+/-0.000 $\chi^2$/NDF: 462740.9/92


yield_atl1_mean vs Slug, Sign Corrected
0.025
0.02
0.015
0.01
0.005
0
100
120
140
160
180
200
Right In: 0.021+/-0.000 χ²/NDF: 75684699411.5/19
Left Out: 0.025+/-0.000 χ²/NDF:7880064969.5/24
Right Out: 0.014+/-0.000 χ²/NDF: 359197380526.2/25
Left In: 0.025+/-0.000 χ²/NDF:1884783780.3/22
Left: 0.025+/-0.000 χ²/NDF: 9897726075.2/47
Right: 0.017+/-0.000 χ²/NDF: 491331070440.6/45
In: 0.024+/-0.000 χ²/NDF:98940153266.3/42
Out: 0.020+/-0.000 χ²/NDF:569906463092.5/50
All: 0.022+/-0.000 χ²/NDF: 709661986529.3


yield_atl1_rms vs Slug, Sign Corrected
×10⁻³
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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1218836.4/19
Left Out: 0.000+/-0.000 χ²/NDF:188211.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 5770394.0/25
Left In: 0.000+/-0.000 χ²/NDF:152421.9/22
Left: 0.000+/-0.000 χ²/NDF: 340709.7/47
Right: 0.000+/-0.000 χ²/NDF: 7598283.5/45
In: 0.000+/-0.000 χ²/NDF:1372165.8/42
Out: 0.000+/-0.000 χ²/NDF:6914495.3/50
All: 0.000+/-0.000 χ²/NDF: 8611034.7/93

# yield_atl2_mean vs Slug, Sign Corrected




Right In: 0.038+/-0.000 $\chi^2$/NDF: 7193046523.7/19

Left Out: 0.013+/-0.000 $\chi^2$/NDF:37338500367.6/24

Right Out: 0.021+/-0.000 $\chi^2$/NDF: 44666893551.7/25

Left In: 0.020+/-0.000 $\chi^2$/NDF:6099907424.9/22

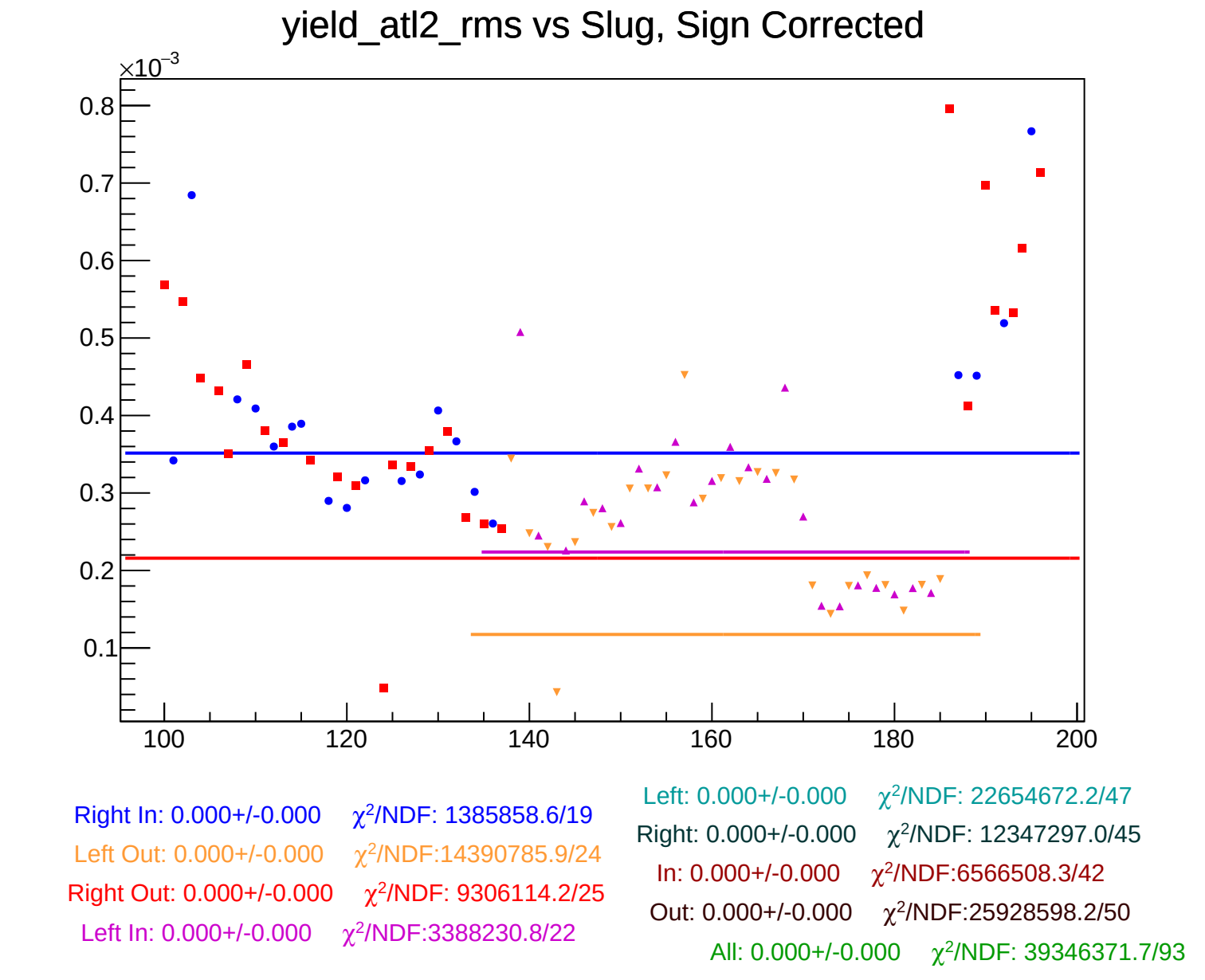
Left: 0.015+/-0.000 $\chi^2$/NDF: 56833428679.6/47

Right: 0.027+/-0.000 $\chi^2$/NDF: 64024360298.7/45

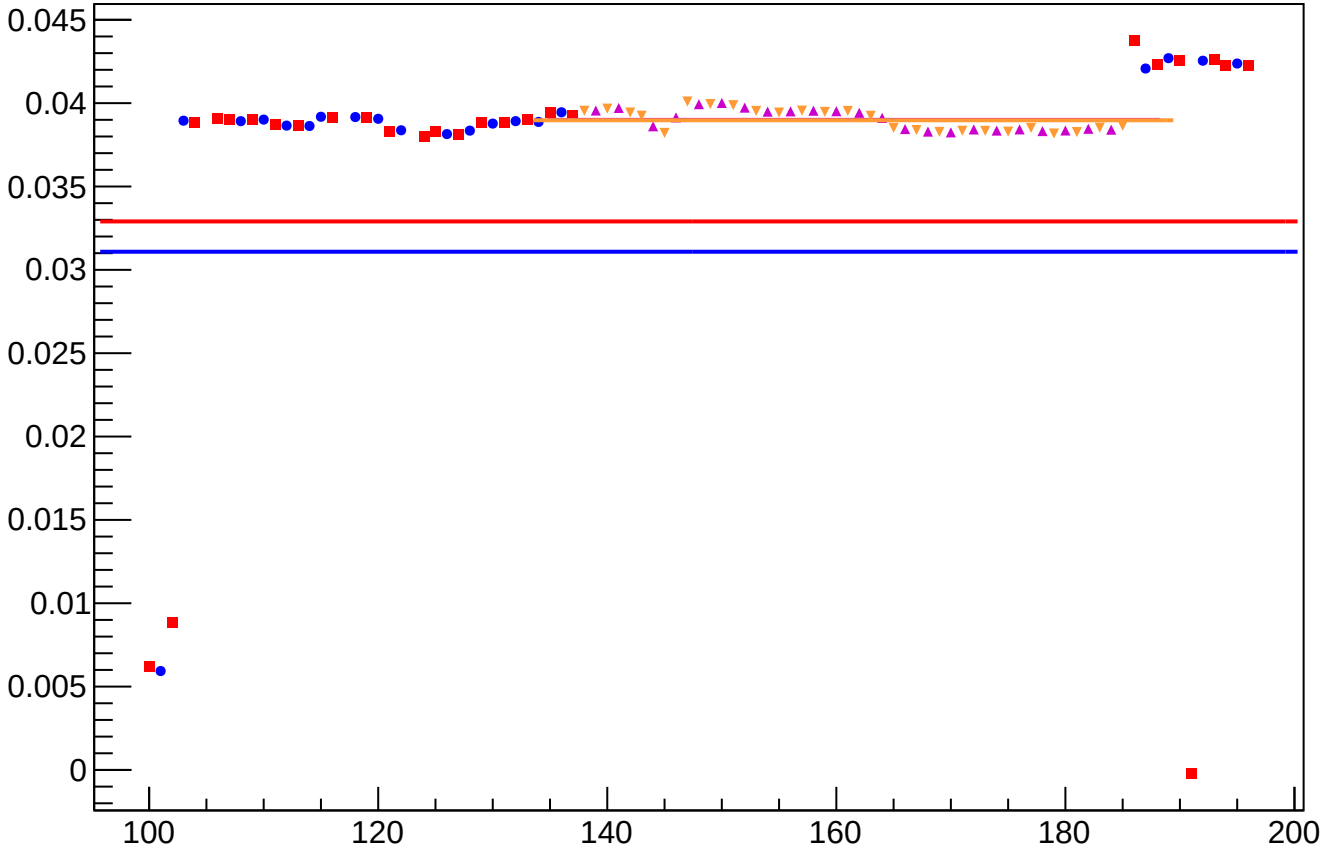
In: 0.024+/-0.000 $\chi^2$/NDF:30000404336.6/42

Out: 0.014+/-0.000 $\chi^2$/NDF:91076406461.7/50

All: 0.017+/-0.000 $\chi^2$/NDF: 145650641643.3


yield_atl2_rms vs Slug, Sign Corrected
×10⁻³
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1385858.6/19
Left Out: 0.000+/-0.000 χ²/NDF:14390785.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 9306114.2/25
Left In: 0.000+/-0.000 χ²/NDF:3388230.8/22
Left: 0.000+/-0.000 χ²/NDF: 22654672.2/47
Right: 0.000+/-0.000 χ²/NDF: 12347297.0/45
In: 0.000+/-0.000 χ²/NDF:6566508.3/42
Out: 0.000+/-0.000 χ²/NDF:25928598.2/50
All: 0.000+/-0.000 χ²/NDF: 39346371.7/93

# yield_atr1_mean vs Slug, Sign Corrected




Right In: 0.031+/-0.000 $\chi^2$/NDF: 115347580532.2/19

Left Out: 0.039+/-0.000 $\chi^2$/NDF:477670162.8/24

Right Out: 0.033+/-0.000 $\chi^2$/NDF: 111256311808.3/25

Left In: 0.039+/-0.000 $\chi^2$/NDF:408808029.6/22

Left: 0.039+/-0.000 $\chi^2$/NDF: 886762060.9/47

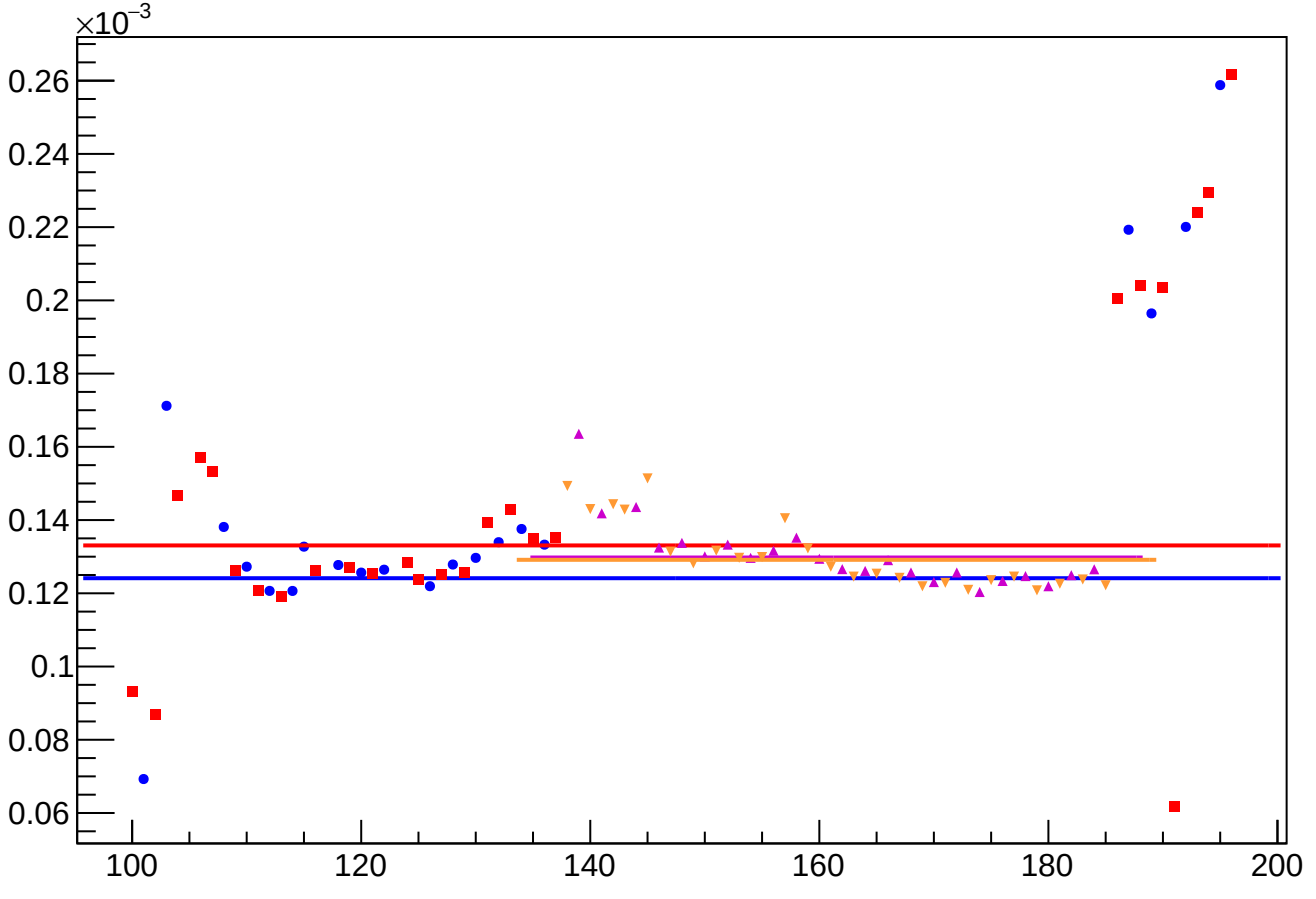
Right: 0.032+/-0.000 $\chi^2$/NDF: 227542515086.1/45

In: 0.036+/-0.000 $\chi^2$/NDF:138599498696.8/42

Out: 0.037+/-0.000 $\chi^2$/NDF:125849538056.9/50

All: 0.037+/-0.000 $\chi^2$/NDF: 264792627291.3

# yield_atr1_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1972472.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:157557.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2162191.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:141831.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 299820.4/47

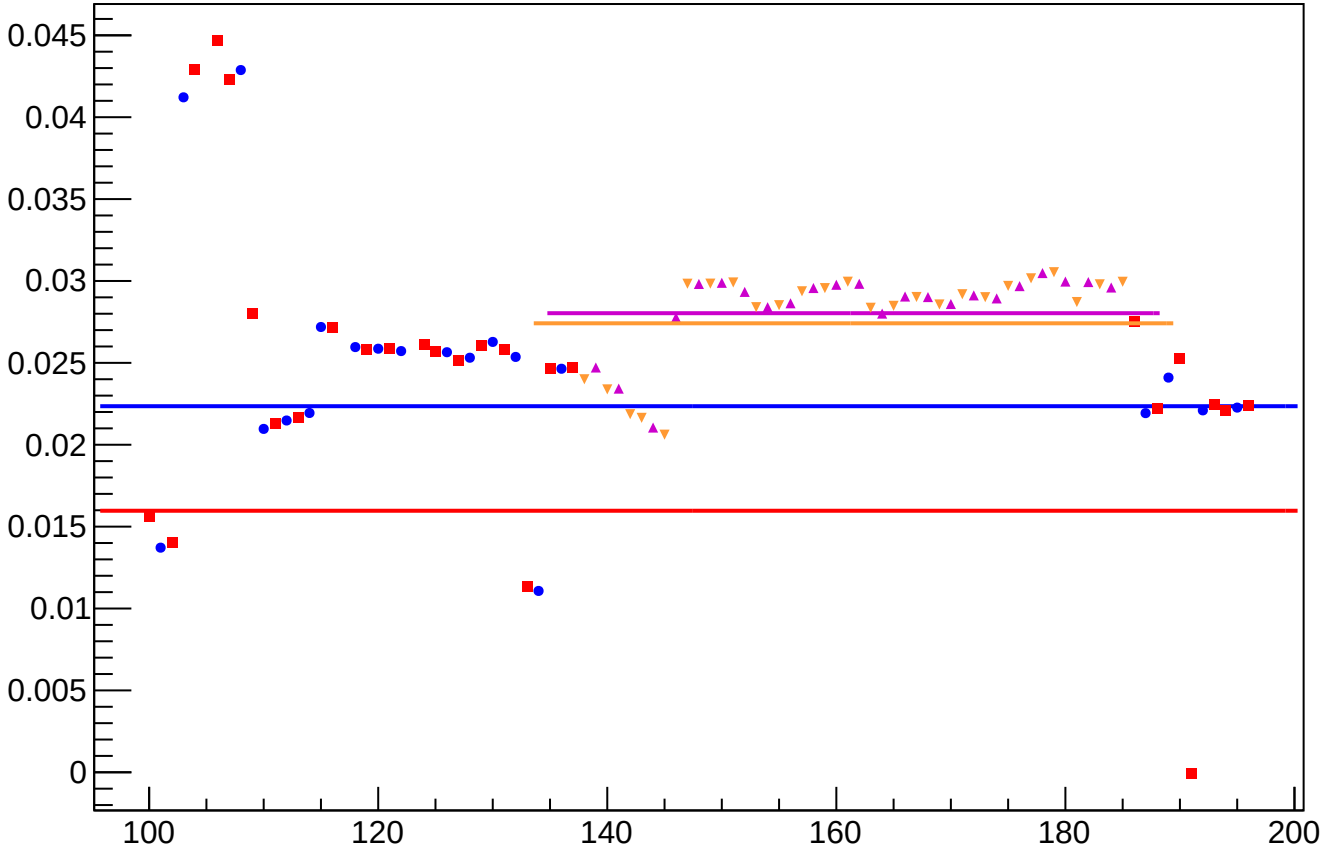
Right: 0.000+/-0.000 $\chi^2$/NDF: 4180170.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:2137632.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:2331566.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 4480861.0/93

# yield_atr2_mean vs Slug, Sign Corrected




Right In: 0.022+/-0.000 $\chi^2$/NDF: 5024451065.9/19

Left Out: 0.027+/-0.000 $\chi^2$/NDF:2240091851.9/24

Right Out: 0.016+/-0.000 $\chi^2$/NDF: 24925646330.9/25

Left In: 0.028+/-0.000 $\chi^2$/NDF:1490587051.3/22

Left: 0.028+/-0.000 $\chi^2$/NDF: 3768752418.2/47

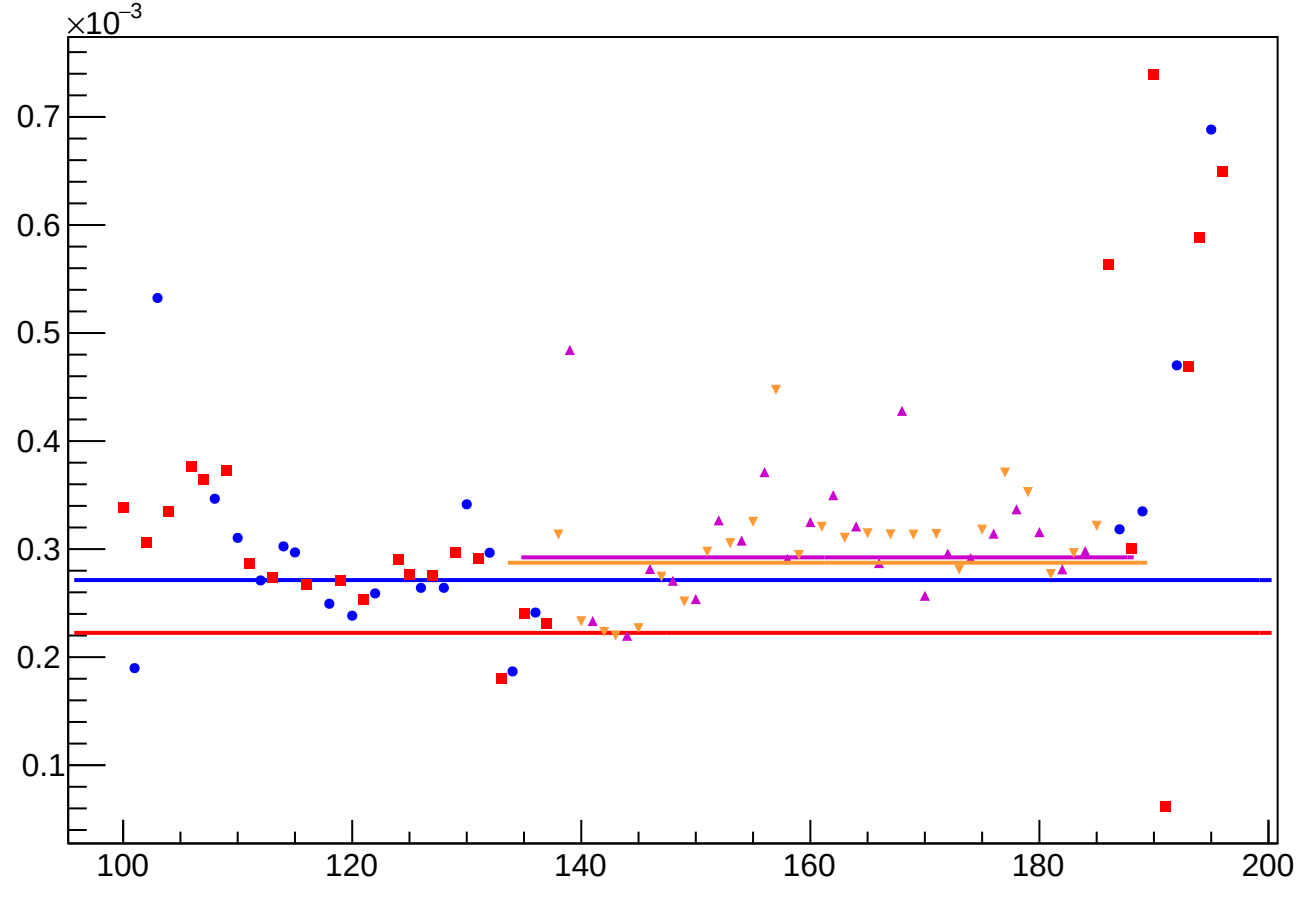
Right: 0.019+/-0.000 $\chi^2$/NDF: 32590609500.5/45

In: 0.026+/-0.000 $\chi^2$/NDF:8766682072.0/42

Out: 0.022+/-0.000 $\chi^2$/NDF:38949963392.2/50

All: 0.024+/-0.000 $\chi^2$/NDF: 49773325952.2/9

# yield_atr2_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 1728022.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:821515.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5948889.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:970483.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 1796968.4/47

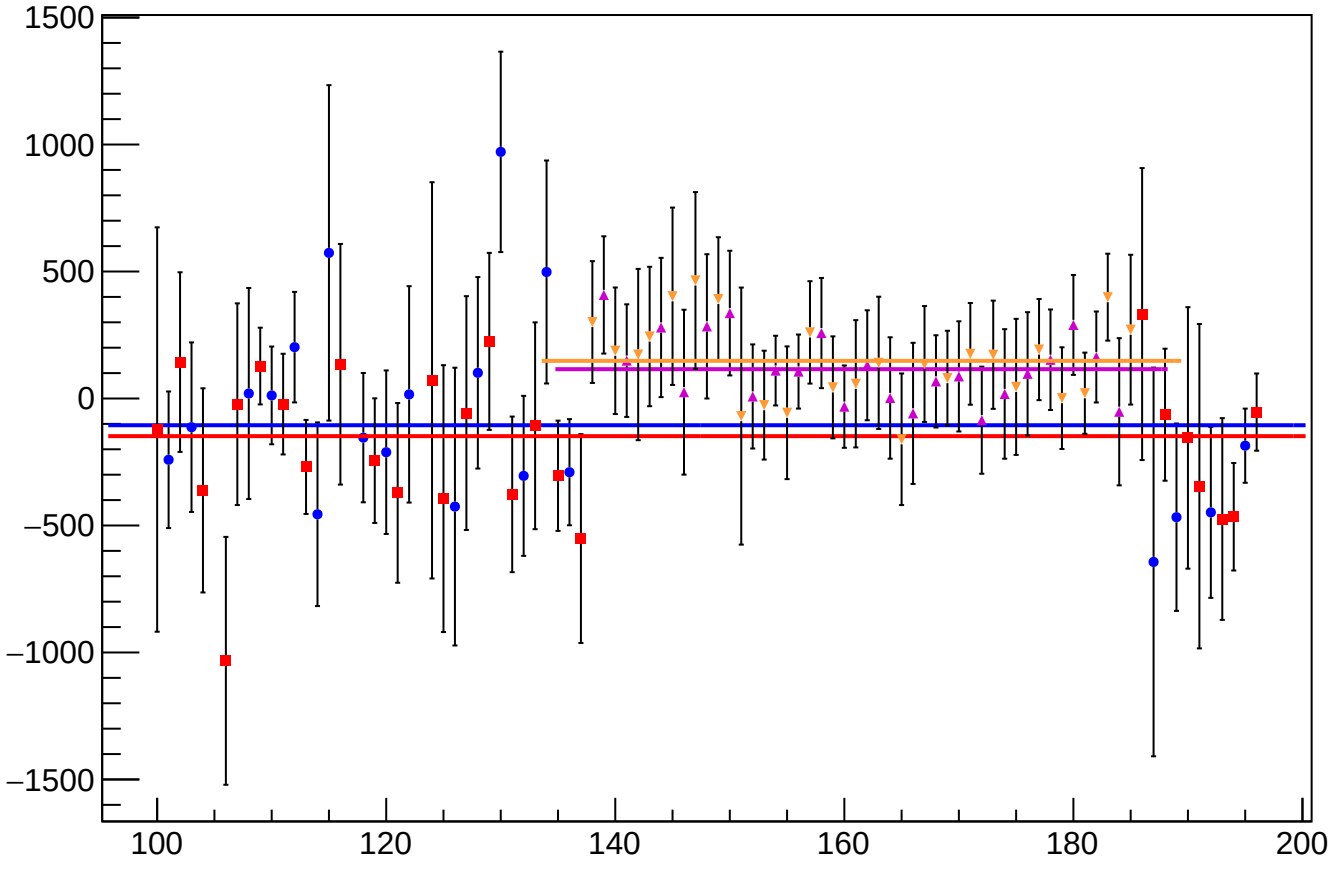
Right: 0.000+/-0.000 $\chi^2$/NDF: 7986005.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:2760439.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7528480.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 10504437.6/93

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -105.242+/-64.952 $\chi^2$/NDF: 18.9/19

Left Out: 148.273+/-46.219 $\chi^2$/NDF:10.4/24

Right Out: -148.234+/-56.625 $\chi^2$/NDF: 17.2/25

Left In: 115.487+/-43.568 $\chi^2$/NDF:7.8/22

Left: 130.913+/-31.703 $\chi^2$/NDF: 18.4/47

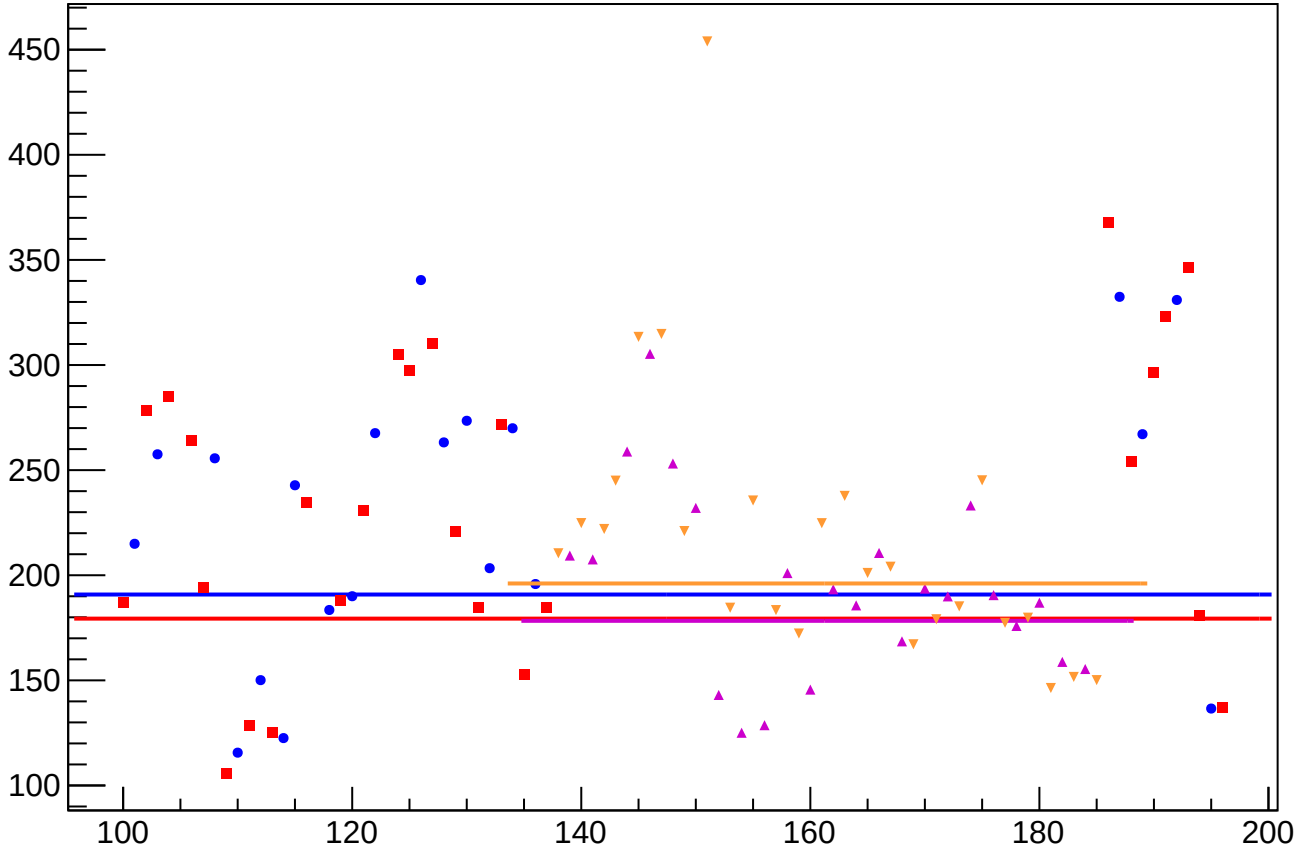
Right: -129.669+/-42.682 $\chi^2$/NDF: 36.3/45

In: 46.991+/-36.182 $\chi^2$/NDF:34.6/42

Out: 29.716+/-35.806 $\chi^2$/NDF:44.0/50

All: 38.263+/-25.451 $\chi^2$/NDF: 78.7/93

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 190.831+/-0.046 $\chi^2$/NDF: 1827774.6/19

Left Out: 196.087+/-0.033 $\chi^2$/NDF:1818492.9/24

Right Out: 179.365+/-0.040 $\chi^2$/NDF: 2778830.3/25

Left In: 178.318+/-0.031 $\chi^2$/NDF:1678336.4/22

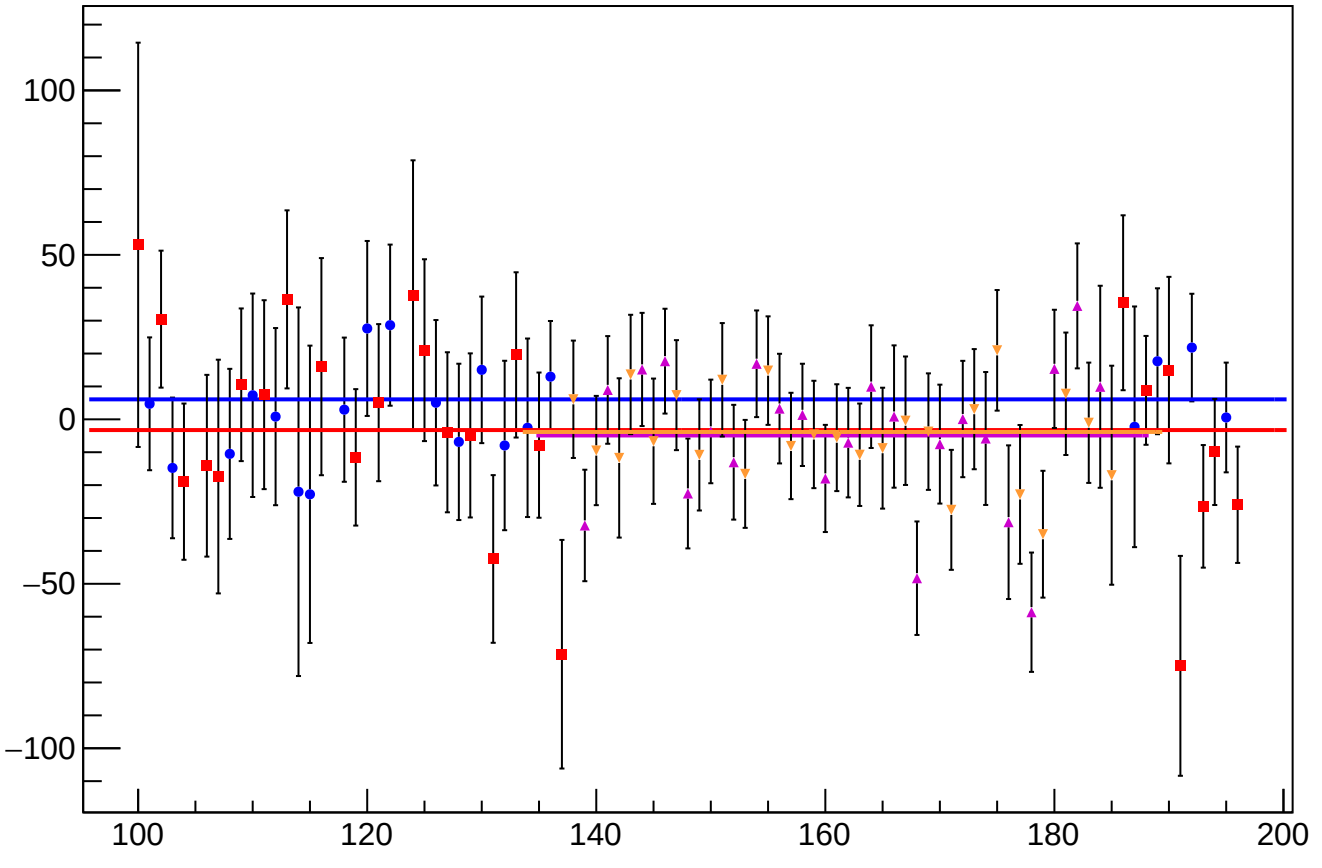
Left: 186.678+/-0.022 $\chi^2$/NDF: 3653348.5/47

Right: 184.316+/-0.030 $\chi^2$/NDF: 4642019.9/45

In: 182.201+/-0.026 $\chi^2$/NDF:3557308.7/42

Out: 189.400+/-0.025 $\chi^2$/NDF:4701998.9/50

All: 185.838+/-0.018 $\chi^2$/NDF: 8299314.5/93




Right In: 6.071+/-5.244 $\chi^2$/NDF: 6.0/19

Left Out: -3.834+/-3.603 $\chi^2$/NDF:12.9/24

Right Out: -3.262+/-4.756 $\chi^2$/NDF: 27.4/25

Left In: -4.903+/-3.695 $\chi^2$/NDF:33.9/22

Left: -4.355+/-2.580 $\chi^2$/NDF: 46.8/47

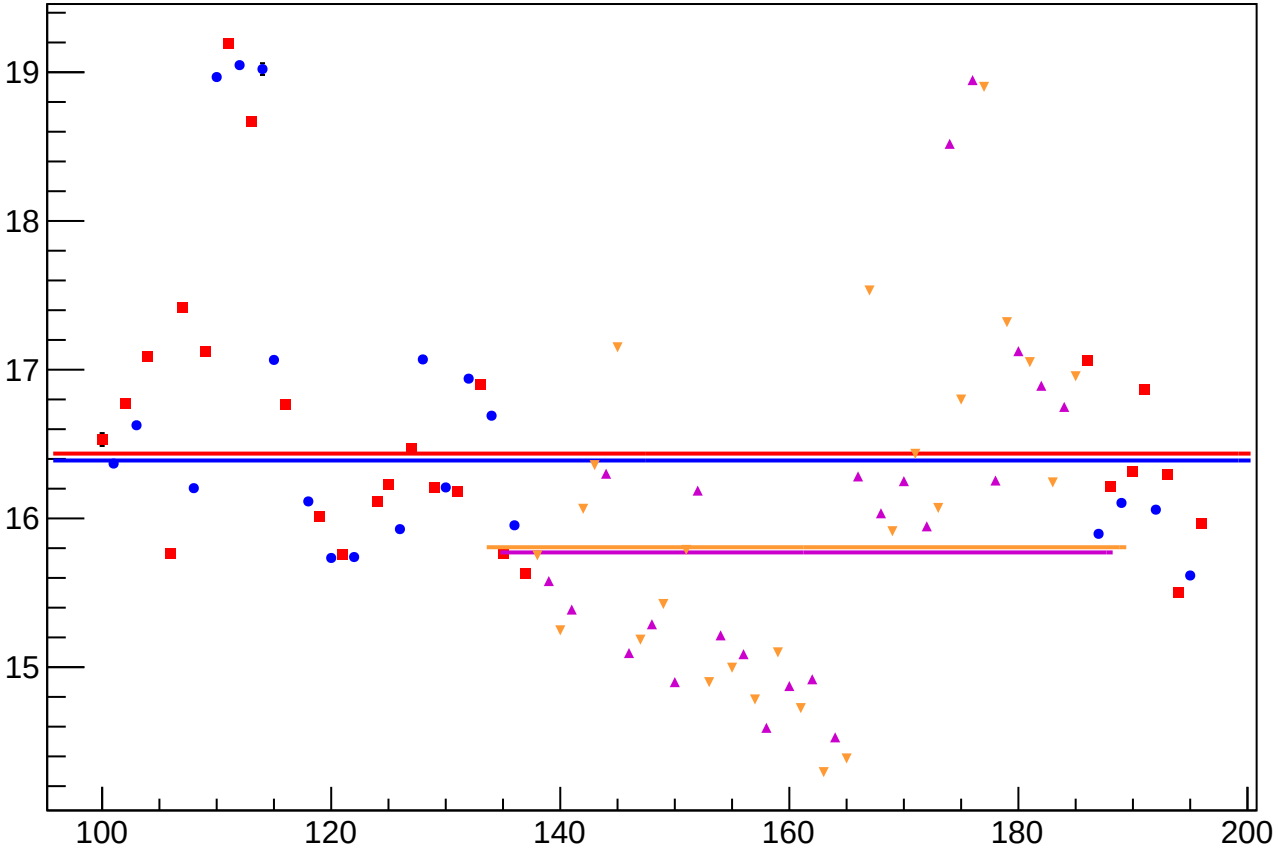
Right: 0.950+/-3.523 $\chi^2$/NDF: 35.1/45

In: -1.262+/-3.021 $\chi^2$/NDF:42.8/42

Out: -3.626+/-2.872 $\chi^2$/NDF:40.2/50

All: -2.504+/-2.081 $\chi^2$/NDF: 83.3/93

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.390+/-0.004 $\chi^2$/NDF: 52261.2/19

Left Out: 15.806+/-0.003 $\chi^2$/NDF:172651.3/24

Right Out: 16.436+/-0.003 $\chi^2$/NDF: 55491.0/25

Left In: 15.771+/-0.003 $\chi^2$/NDF:152136.7/22

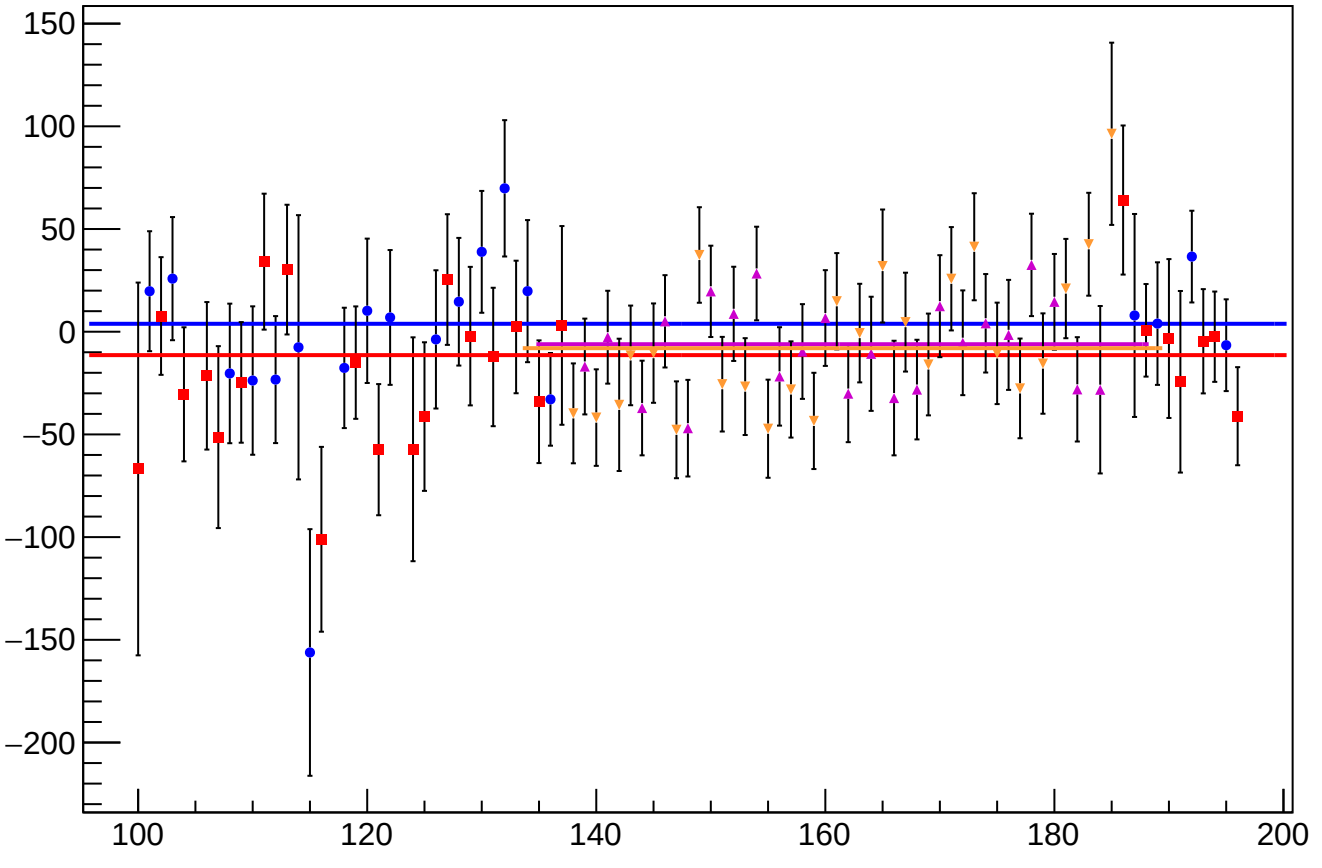
Left: 15.789+/-0.002 $\chi^2$/NDF: 324879.5/47

Right: 16.415+/-0.002 $\chi^2$/NDF: 107838.1/45

In: 15.977+/-0.002 $\chi^2$/NDF:222967.4/42

Out: 16.036+/-0.002 $\chi^2$/NDF:250416.3/50

All: 16.008+/-0.001 $\chi^2$/NDF: 473789.0/93




Right In: 3.859+/-6.952 $\chi^2$/NDF: 21.2/19

Left Out: -8.016+/-4.956 $\chi^2$/NDF:38.9/24

Right Out: -11.394+/-6.313 $\chi^2$/NDF: 22.1/25

Left In: -6.086+/-5.080 $\chi^2$/NDF:17.9/22

Left: -7.075+/-3.547 $\chi^2$/NDF: 56.8/47

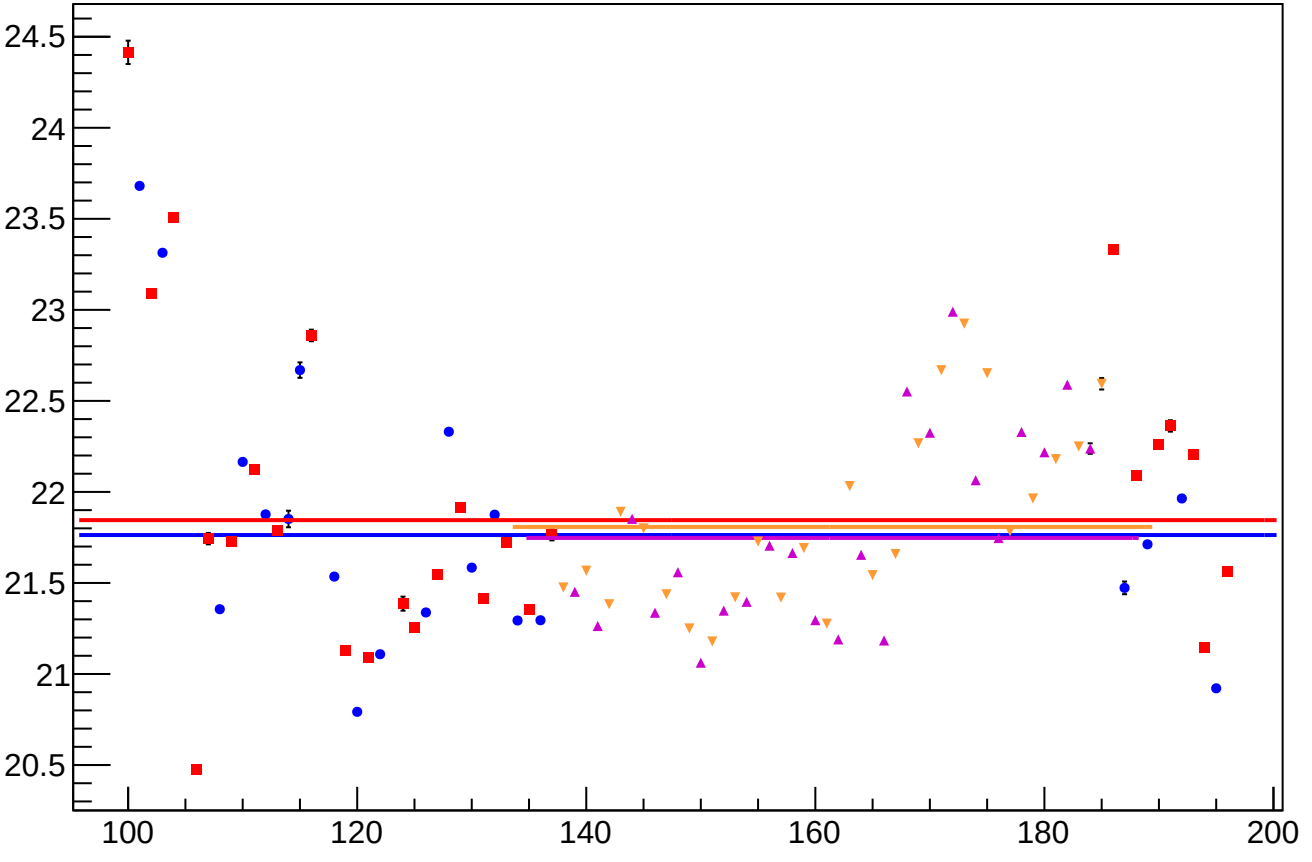
Right: -4.501+/-4.673 $\chi^2$/NDF: 45.9/45

In: -2.624+/-4.102 $\chi^2$/NDF:40.4/42

Out: -9.304+/-3.898 $\chi^2$/NDF:61.2/50

All: -6.134+/-2.826 $\chi^2$/NDF: 102.9/93

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.763+/-0.005 $\chi^2$/NDF: 22826.2/19

Left Out: 21.808+/-0.004 $\chi^2$/NDF:17561.0/24

Right Out: 21.845+/-0.004 $\chi^2$/NDF: 25743.7/25

Left In: 21.747+/-0.004 $\chi^2$/NDF:20560.9/22

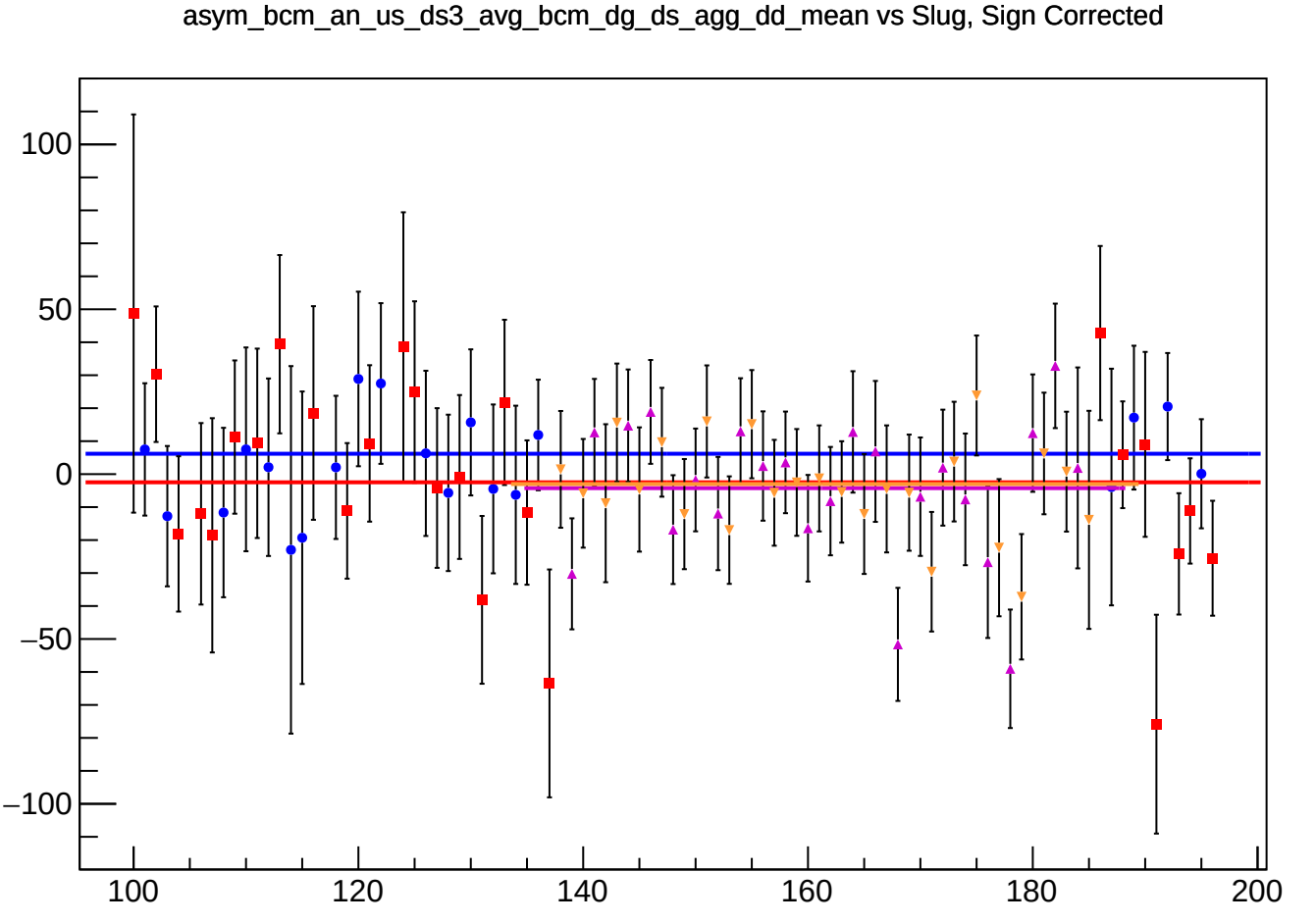
Left: 21.778+/-0.003 $\chi^2$/NDF: 38266.9/47

Right: 21.808+/-0.003 $\chi^2$/NDF: 48721.7/45

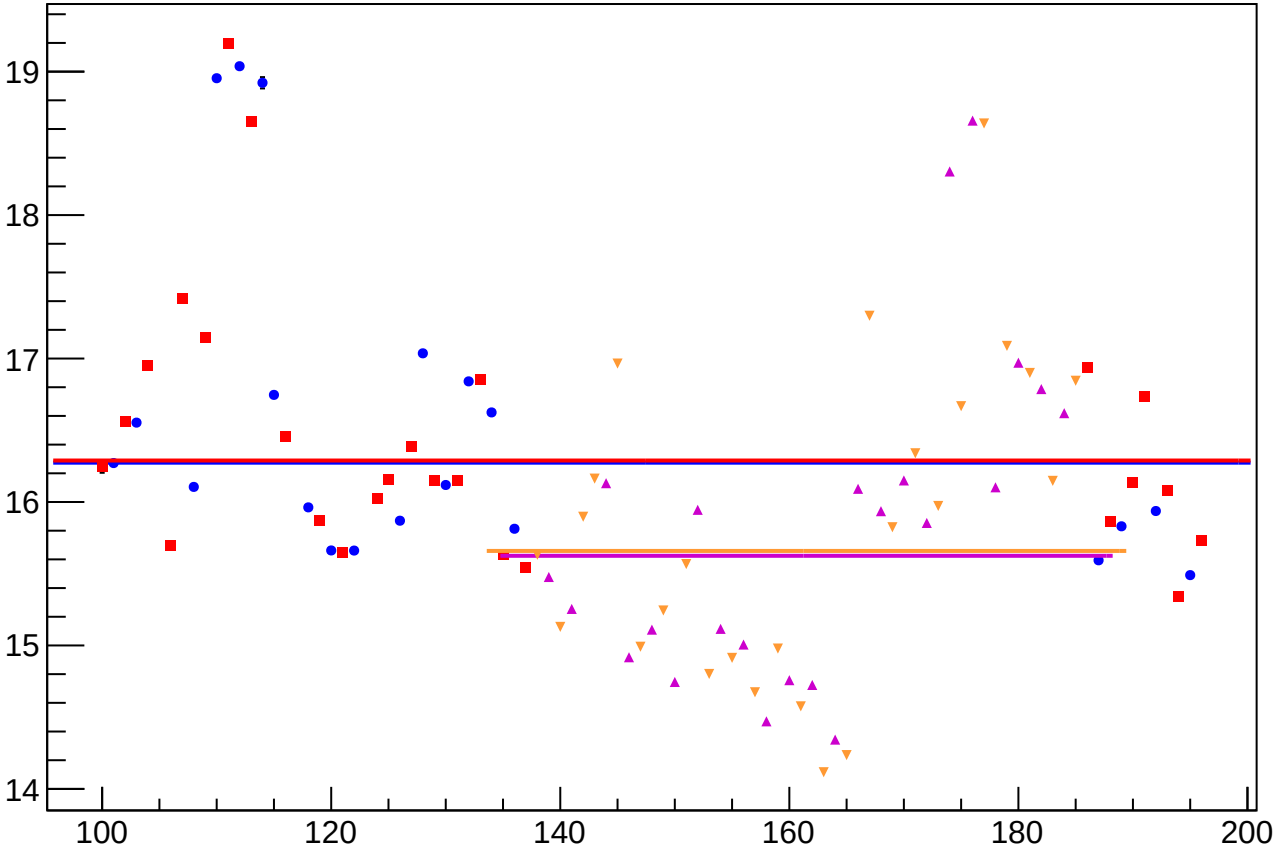
In: 21.753+/-0.003 $\chi^2$/NDF:43393.9/42

Out: 21.822+/-0.003 $\chi^2$/NDF:43347.8/50

All: 21.789+/-0.002 $\chi^2$/NDF: 87040.1/93


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected
100
50
0
−50
−100
100
120
140
160
180
200
Right In: 6.184+/-5.208 χ²/NDF: 5.6/19
Left Out: -3.002+/-3.569 χ²/NDF:14.6/24
Right Out: -2.476+/-4.715 χ²/NDF: 27.7/25
Left In: -4.249+/-3.661 χ²/NDF:33.8/22
Left: -3.610+/-2.555 χ²/NDF: 48.5/47
Right: 1.425+/-3.495 χ²/NDF: 34.8/45
In: -0.799+/-2.995 χ²/NDF:42.1/42
Out: -2.811+/-2.845 χ²/NDF:42.3/50
All: -1.856+/-2.063 χ²/NDF: 84.7/93

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 16.274+/-0.004 $\chi^2$/NDF: 56443.1/19

Left Out: 15.659+/-0.003 $\chi^2$/NDF:169838.6/24

Right Out: 16.289+/-0.003 $\chi^2$/NDF: 61983.0/25

Left In: 15.625+/-0.003 $\chi^2$/NDF:150431.7/22

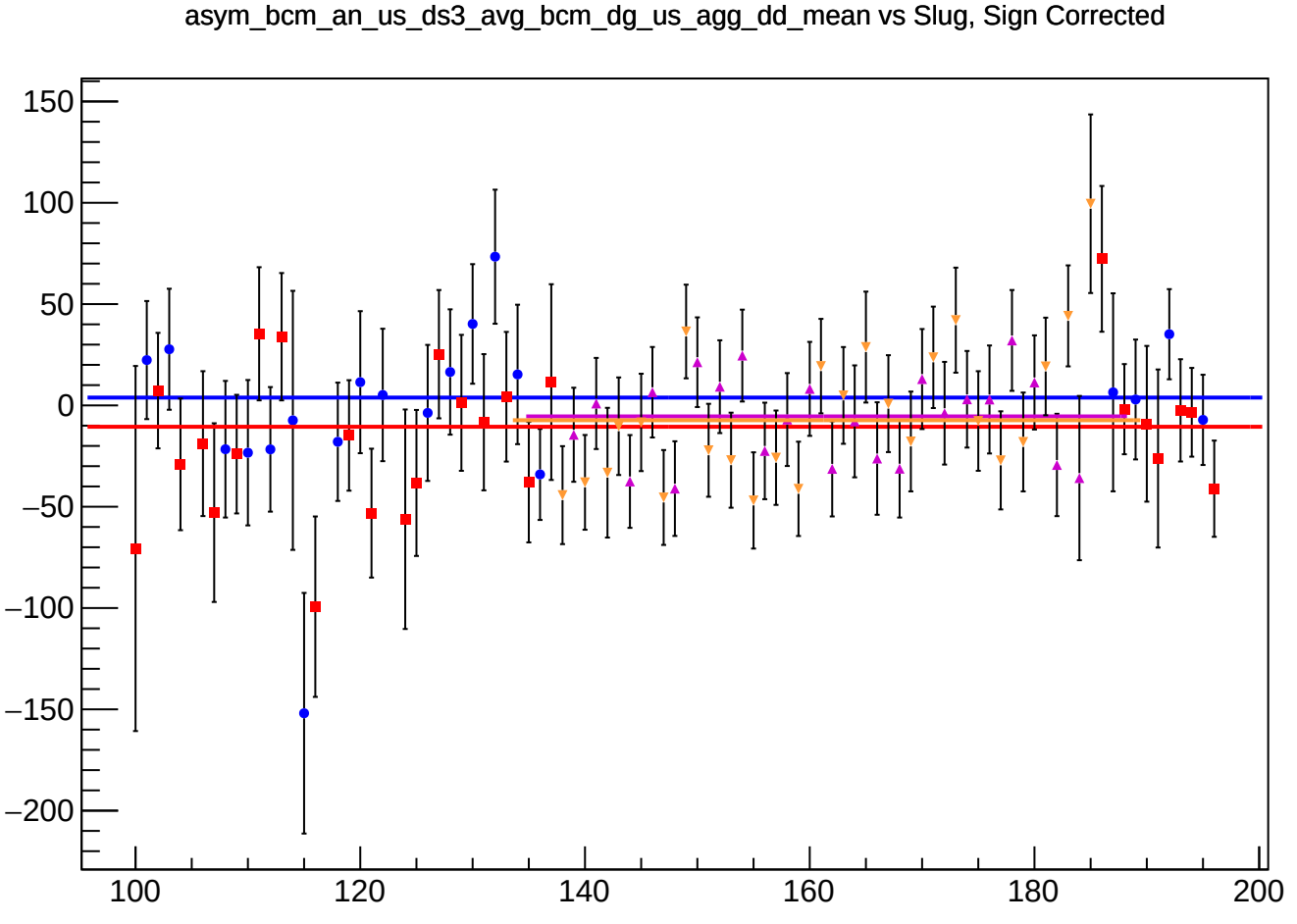
Left: 15.642+/-0.002 $\chi^2$/NDF: 320358.4/47

Right: 16.282+/-0.002 $\chi^2$/NDF: 118435.2/45

In: 15.840+/-0.002 $\chi^2$/NDF:227672.8/42

Out: 15.888+/-0.002 $\chi^2$/NDF:254542.6/50

All: 15.865+/-0.001 $\chi^2$/NDF: 482494.5/93




Right In: 3.864+/-6.919 $\chi^2$/NDF: 21.7/19

Left Out: -7.318+/-4.929 $\chi^2$/NDF:38.6/24

Right Out: -10.547+/-6.277 $\chi^2$/NDF: 23.5/25

Left In: -5.435+/-5.054 $\chi^2$/NDF:17.3/22

Left: -6.400+/-3.529 $\chi^2$/NDF: 56.0/47

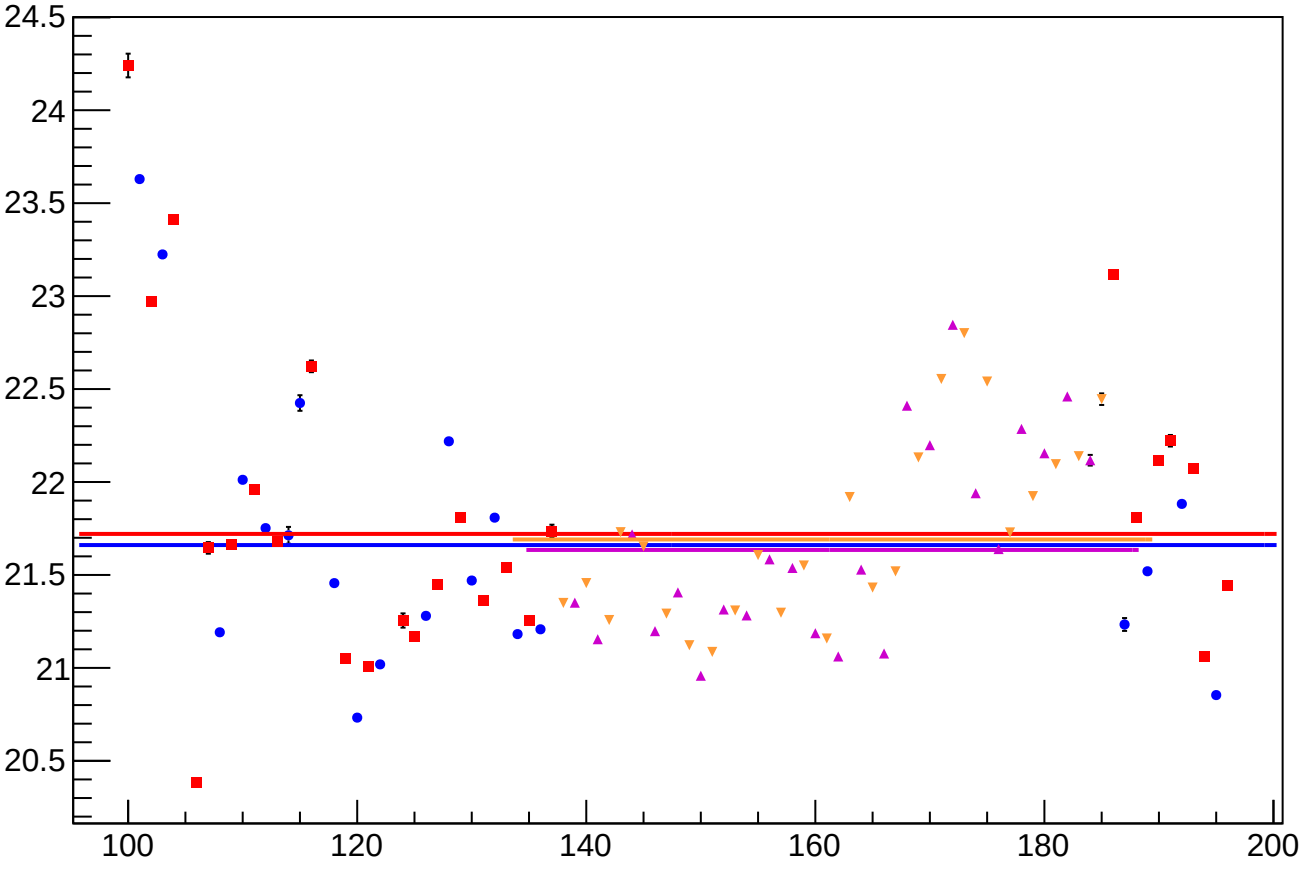
Right: -4.042+/-4.649 $\chi^2$/NDF: 47.6/45

In: -2.200+/-4.081 $\chi^2$/NDF:40.2/42

Out: -8.550+/-3.877 $\chi^2$/NDF:62.3/50

All: -5.538+/-2.811 $\chi^2$/NDF: 103.8/93

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 21.661+/-0.005 $\chi^2$/NDF: 23071.1/19

Left Out: 21.691+/-0.003 $\chi^2$/NDF:17934.9/24

Right Out: 21.721+/-0.004 $\chi^2$/NDF: 24334.6/25

Left In: 21.635+/-0.004 $\chi^2$/NDF:20561.5/22

Left: 21.663+/-0.002 $\chi^2$/NDF: 38623.9/47

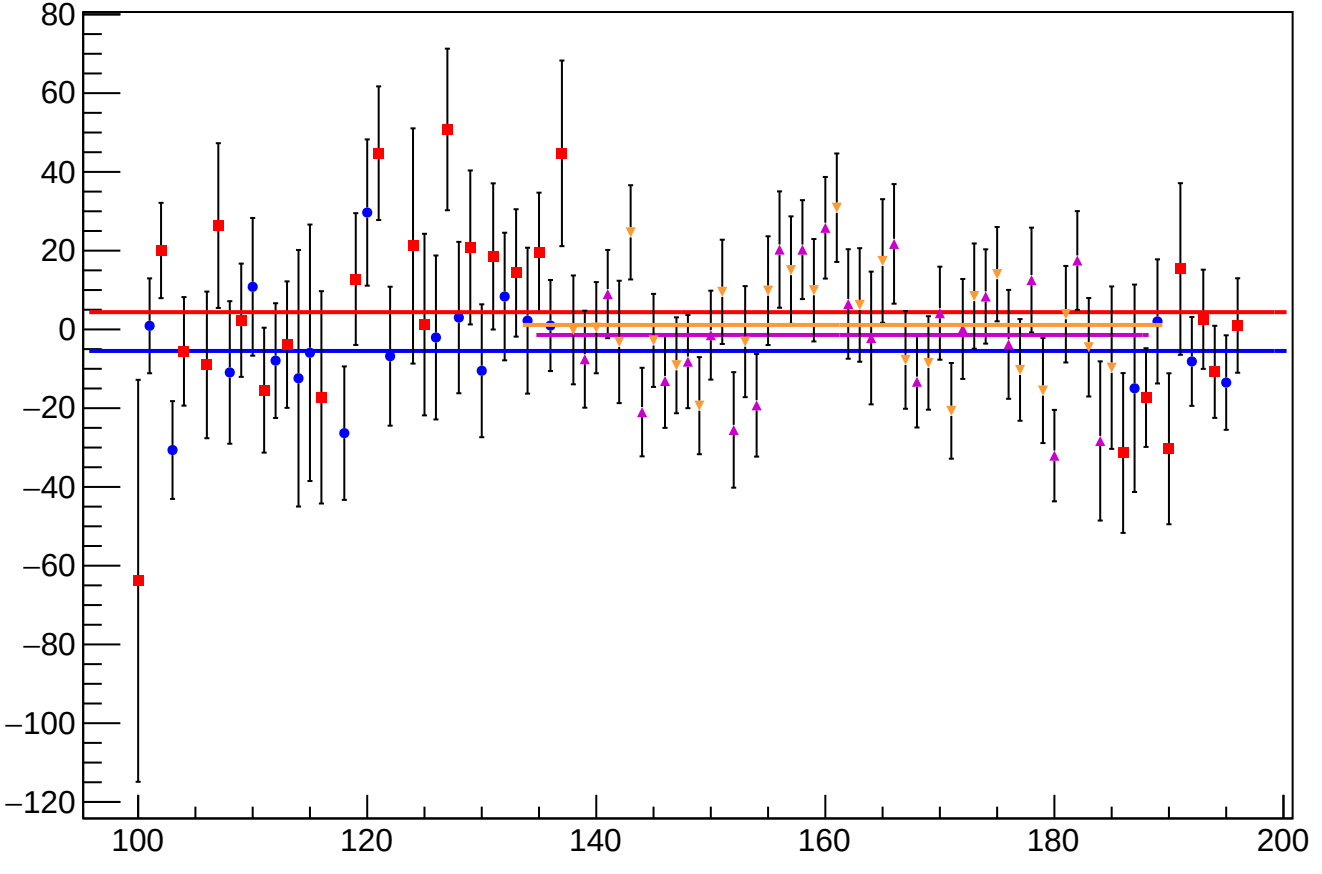
Right: 21.694+/-0.003 $\chi^2$/NDF: 47488.0/45

In: 21.644+/-0.003 $\chi^2$/NDF:43651.5/42

Out: 21.702+/-0.003 $\chi^2$/NDF:42297.5/50

All: 21.674+/-0.002 $\chi^2$/NDF: 86165.8/93

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: -5.467+/-3.561 $\chi^2$/NDF: 12.9/19

Left Out: 1.138+/-2.620 $\chi^2$/NDF:24.5/24

Right Out: 4.385+/-3.266 $\chi^2$/NDF: 36.4/25

Left In: -1.407+/-2.674 $\chi^2$/NDF:36.3/22

Left: -0.108+/-1.871 $\chi^2$/NDF: 61.3/47

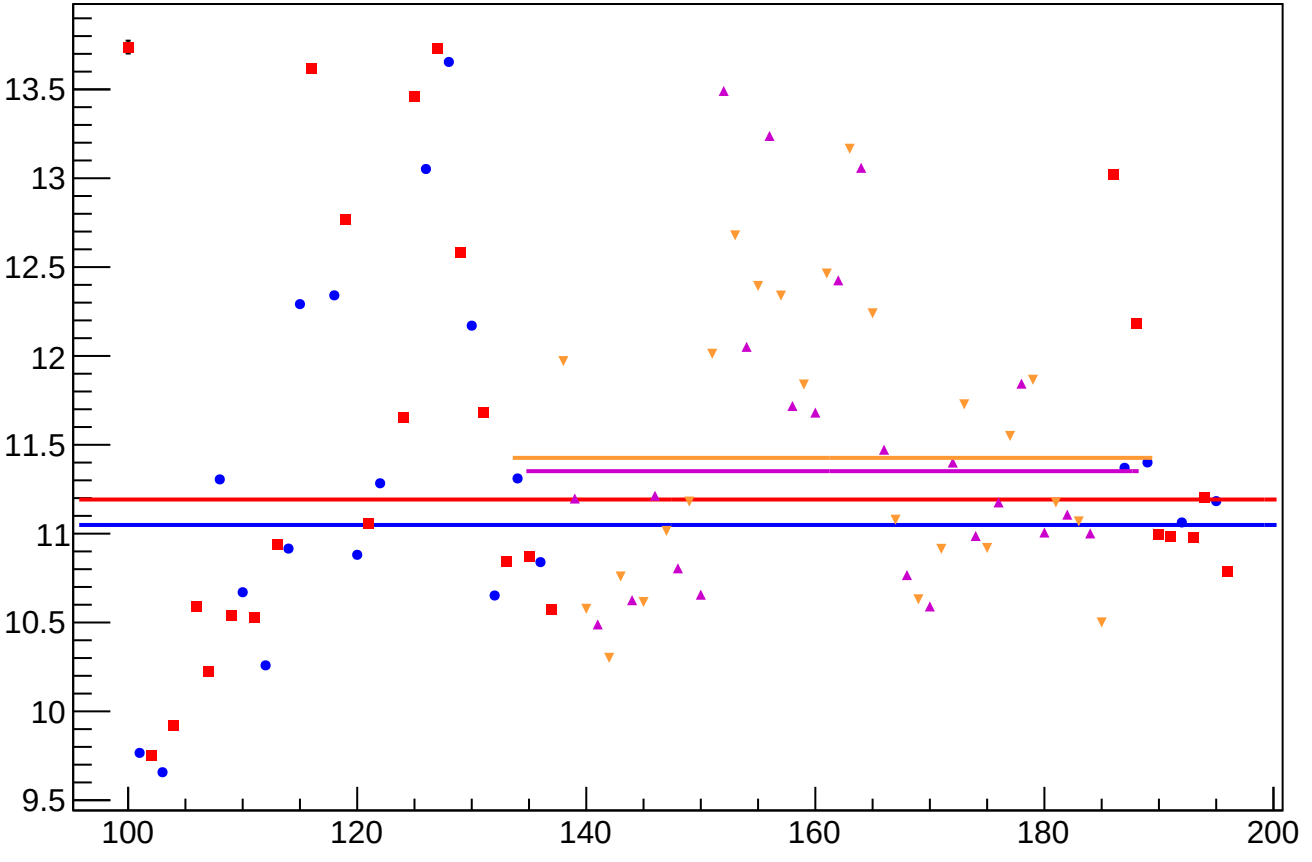
Right: -0.116+/-2.407 $\chi^2$/NDF: 53.5/45

In: -2.871+/-2.138 $\chi^2$/NDF:50.1/42

Out: 2.409+/-2.044 $\chi^2$/NDF:61.6/50

All: -0.111+/-1.477 $\chi^2$/NDF: 114.8/93

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 11.049+/-0.003 $\chi^2$/NDF: 137997.7/19

Left Out: 11.426+/-0.002 $\chi^2$/NDF:156973.4/24

Right Out: 11.192+/-0.002 $\chi^2$/NDF: 196019.1/25

Left In: 11.352+/-0.002 $\chi^2$/NDF:170563.6/22

Left: 11.390+/-0.001 $\chi^2$/NDF: 328334.9/47

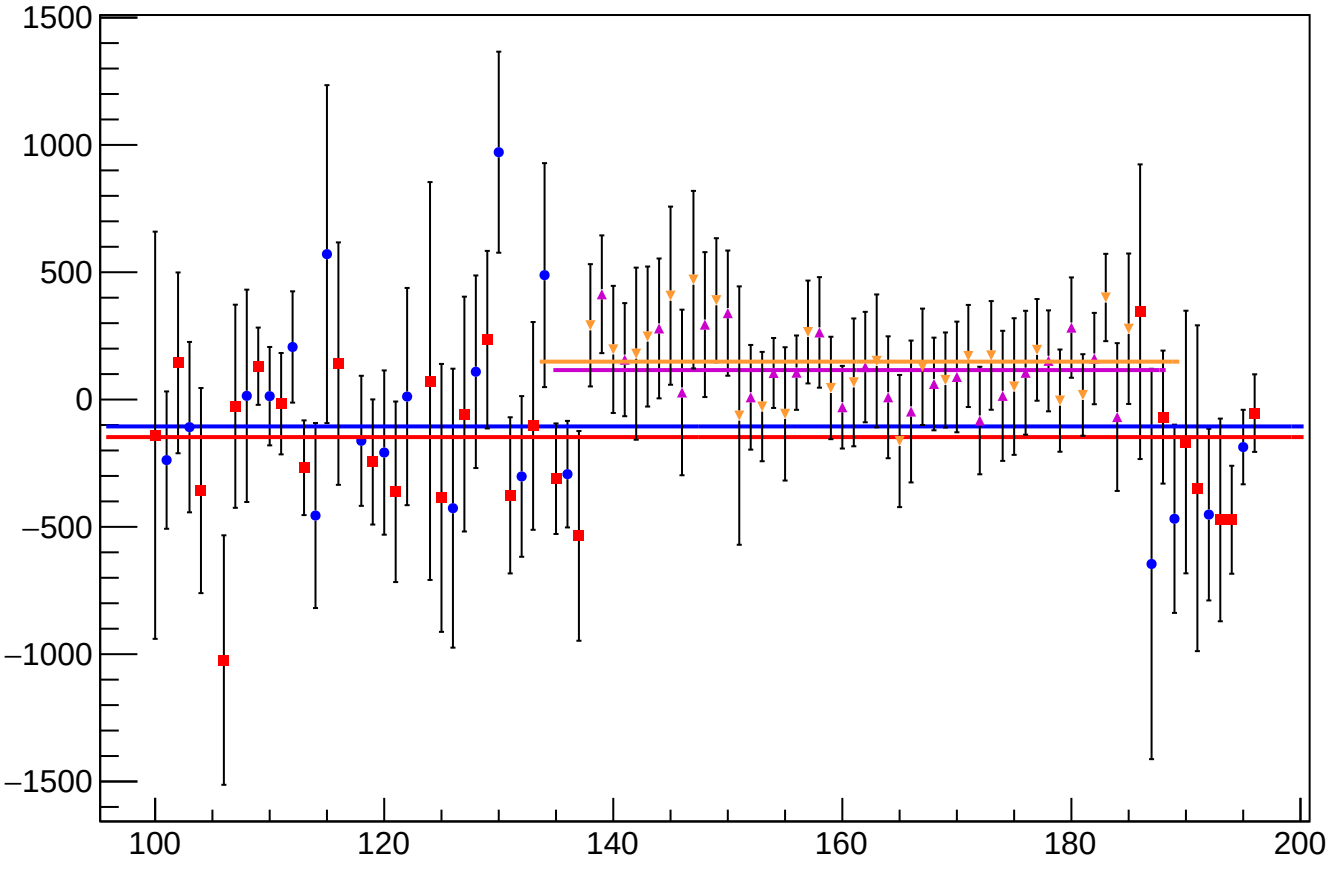
Right: 11.127+/-0.002 $\chi^2$/NDF: 335774.0/45

In: 11.243+/-0.002 $\chi^2$/NDF:317810.9/42

Out: 11.335+/-0.001 $\chi^2$/NDF:359259.4/50

All: 11.291+/-0.001 $\chi^2$/NDF: 679013.5/93

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs Slug, Sign Corrected




Right In: -105.561+/-65.129 $\chi^2$/NDF: 18.9/19

Left Out: 148.905+/-46.306 $\chi^2$/NDF:10.5/24

Right Out: -147.443+/-56.792 $\chi^2$/NDF: 17.2/25

Left In: 115.709+/-43.641 $\chi^2$/NDF:7.8/22

Left: 131.325+/-31.759 $\chi^2$/NDF: 18.6/47

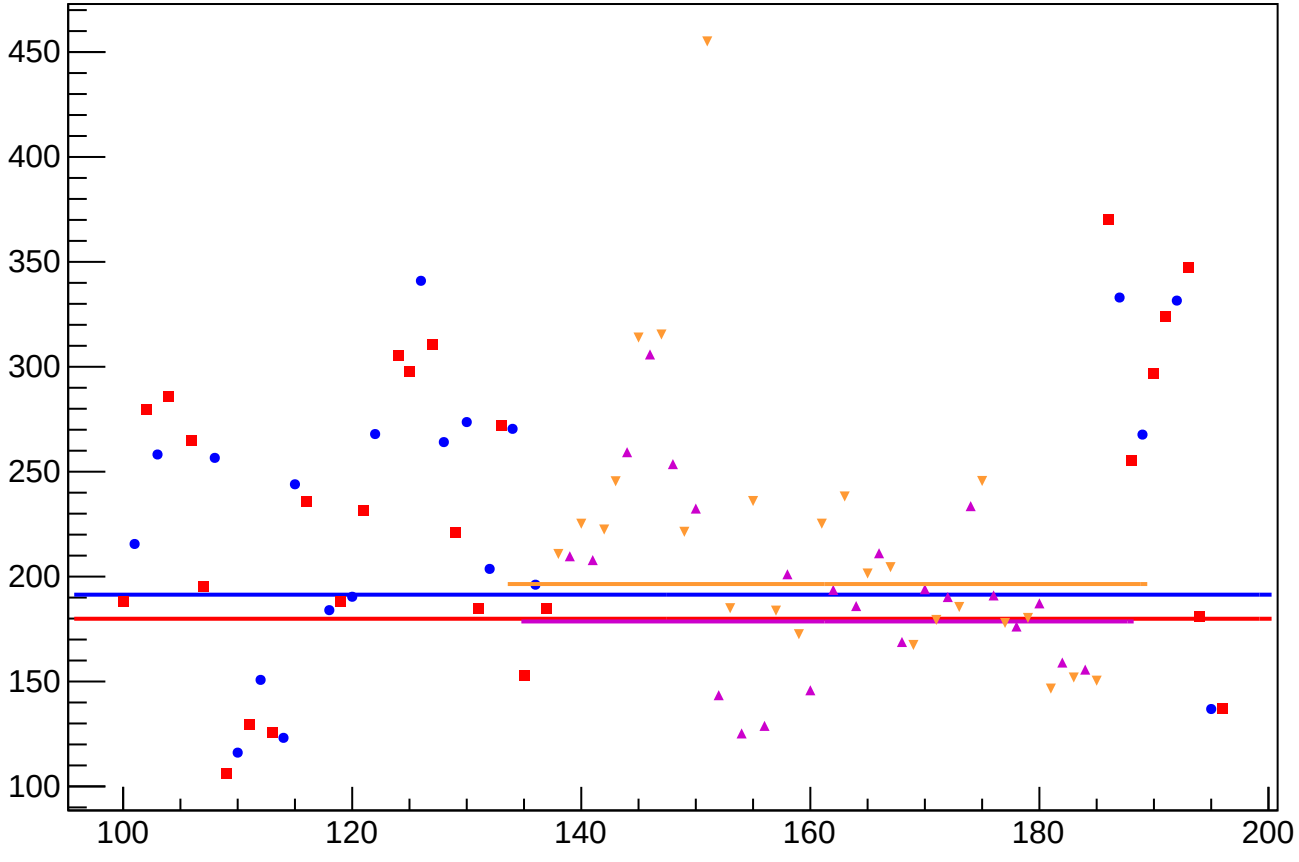
Right: -129.353+/-42.804 $\chi^2$/NDF: 36.3/45

In: 47.146+/-36.254 $\chi^2$/NDF:34.6/42

Out: 30.562+/-35.889 $\chi^2$/NDF:44.0/50

All: 38.770+/-25.505 $\chi^2$/NDF: 78.8/93

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.385+/-0.046 $\chi^2$/NDF: 1821625.2/19

Left Out: 196.454+/-0.033 $\chi^2$/NDF:1818746.1/24

Right Out: 179.912+/-0.040 $\chi^2$/NDF: 2774585.0/25

Left In: 178.614+/-0.031 $\chi^2$/NDF:1678859.8/22

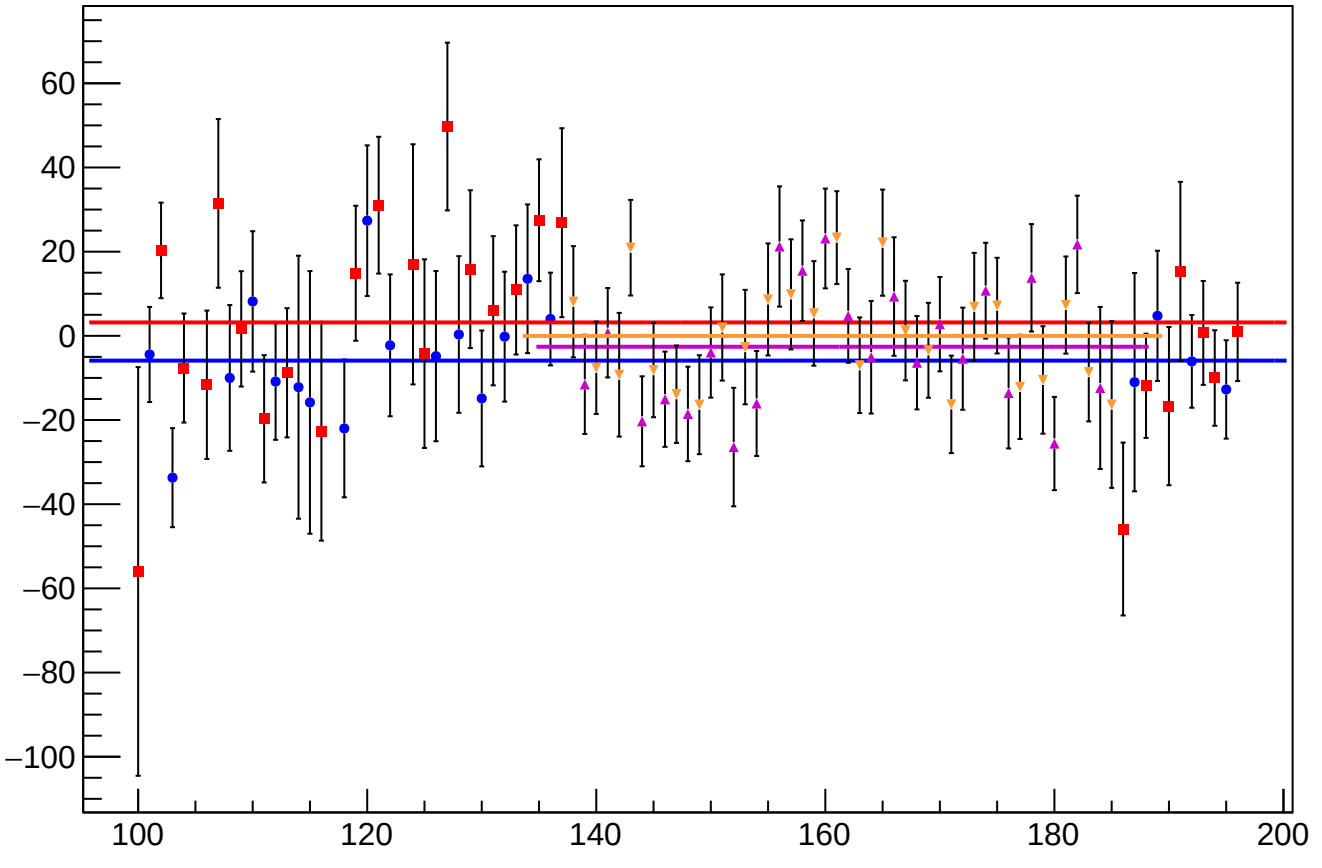
Left: 187.006+/-0.022 $\chi^2$/NDF: 3654827.6/47

Right: 184.868+/-0.030 $\chi^2$/NDF: 4631467.0/45

In: 182.571+/-0.026 $\chi^2$/NDF:3553559.4/42

Out: 189.848+/-0.025 $\chi^2$/NDF:4695255.5/50

All: 186.247+/-0.018 $\chi^2$/NDF: 8289513.1/93




Right In: -5.887+/-3.416 $\chi^2$/NDF: 14.5/19

Left Out: -0.018+/-2.445 $\chi^2$/NDF:23.7/24

Right Out: 3.186+/-3.142 $\chi^2$/NDF: 35.1/25

Left In: -2.591+/-2.506 $\chi^2$/NDF:34.8/22

Left: -1.272+/-1.750 $\chi^2$/NDF: 59.1/47

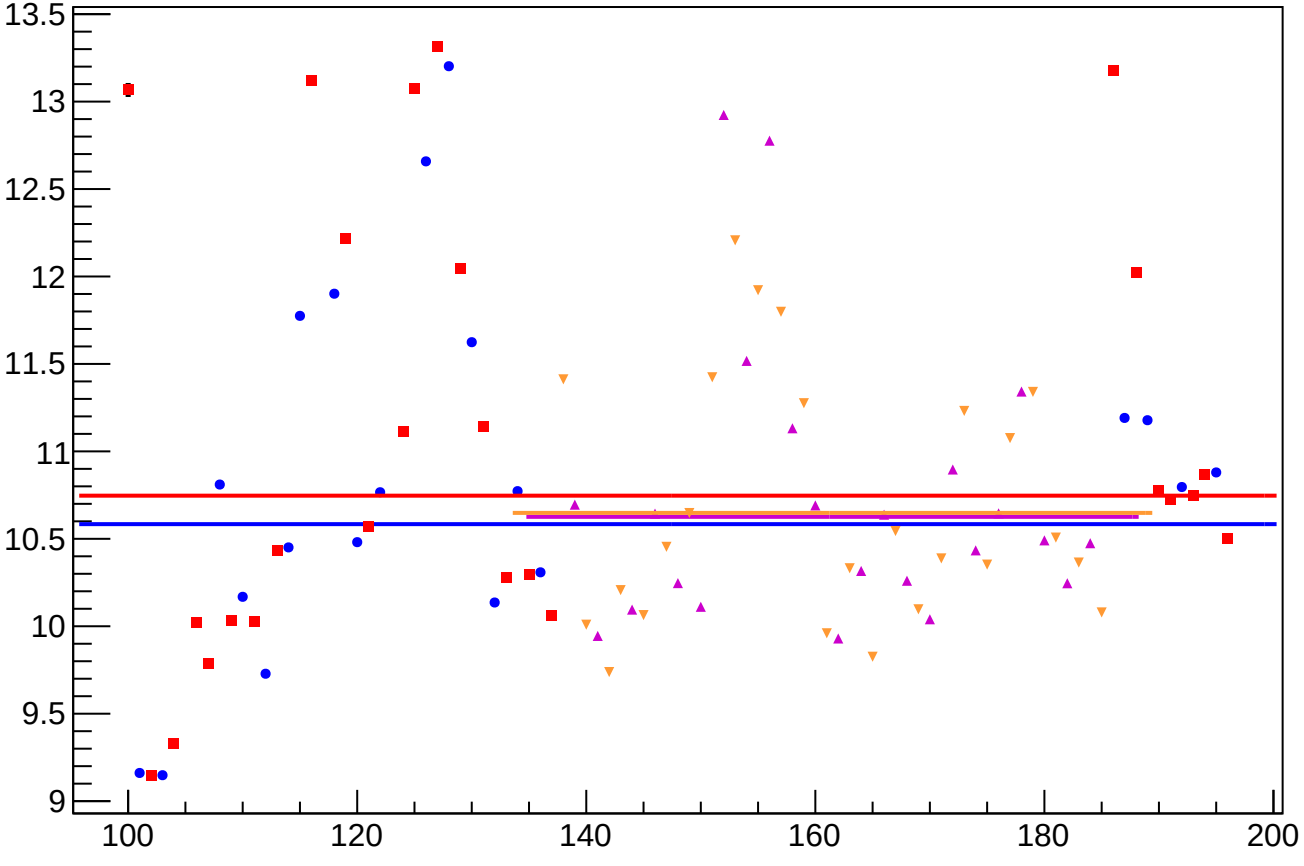
Right: -0.971+/-2.313 $\chi^2$/NDF: 53.4/45

In: -3.744+/-2.021 $\chi^2$/NDF:49.9/42

Out: 1.191+/-1.929 $\chi^2$/NDF:59.4/50

All: -1.163+/-1.395 $\chi^2$/NDF: 112.5/93

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs Slug, Sign Corrected




Right In: 10.584+/-0.002 $\chi^2$/NDF: 165091.9/19

Left Out: 10.648+/-0.002 $\chi^2$/NDF:143535.9/24

Right Out: 10.747+/-0.002 $\chi^2$/NDF: 242619.1/25

Left In: 10.626+/-0.002 $\chi^2$/NDF:159543.1/22

Left: 10.637+/-0.001 $\chi^2$/NDF: 303162.3/47

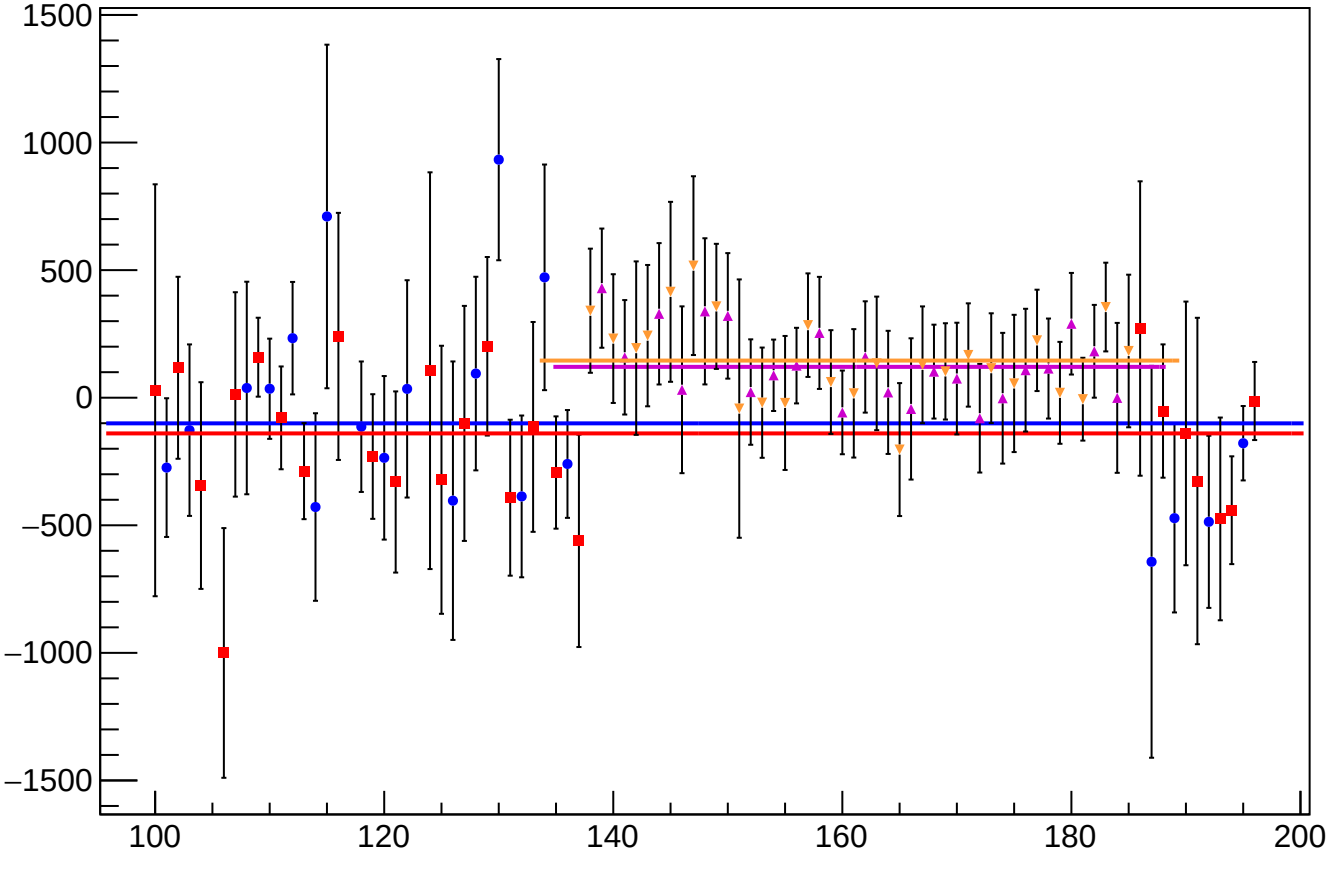
Right: 10.672+/-0.002 $\chi^2$/NDF: 410172.7/45

In: 10.611+/-0.001 $\chi^2$/NDF:324829.5/42

Out: 10.685+/-0.001 $\chi^2$/NDF:387378.8/50

All: 10.650+/-0.001 $\chi^2$/NDF: 713624.2/93

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -100.504+/-65.388 $\chi^2$/NDF: 19.4/19

Left Out: 145.545+/-46.613 $\chi^2$/NDF:10.3/24

Right Out: -139.940+/-57.163 $\chi^2$/NDF: 17.0/25

Left In: 120.888+/-43.994 $\chi^2$/NDF:8.2/22

Left: 132.504+/-31.994 $\chi^2$/NDF: 18.7/47

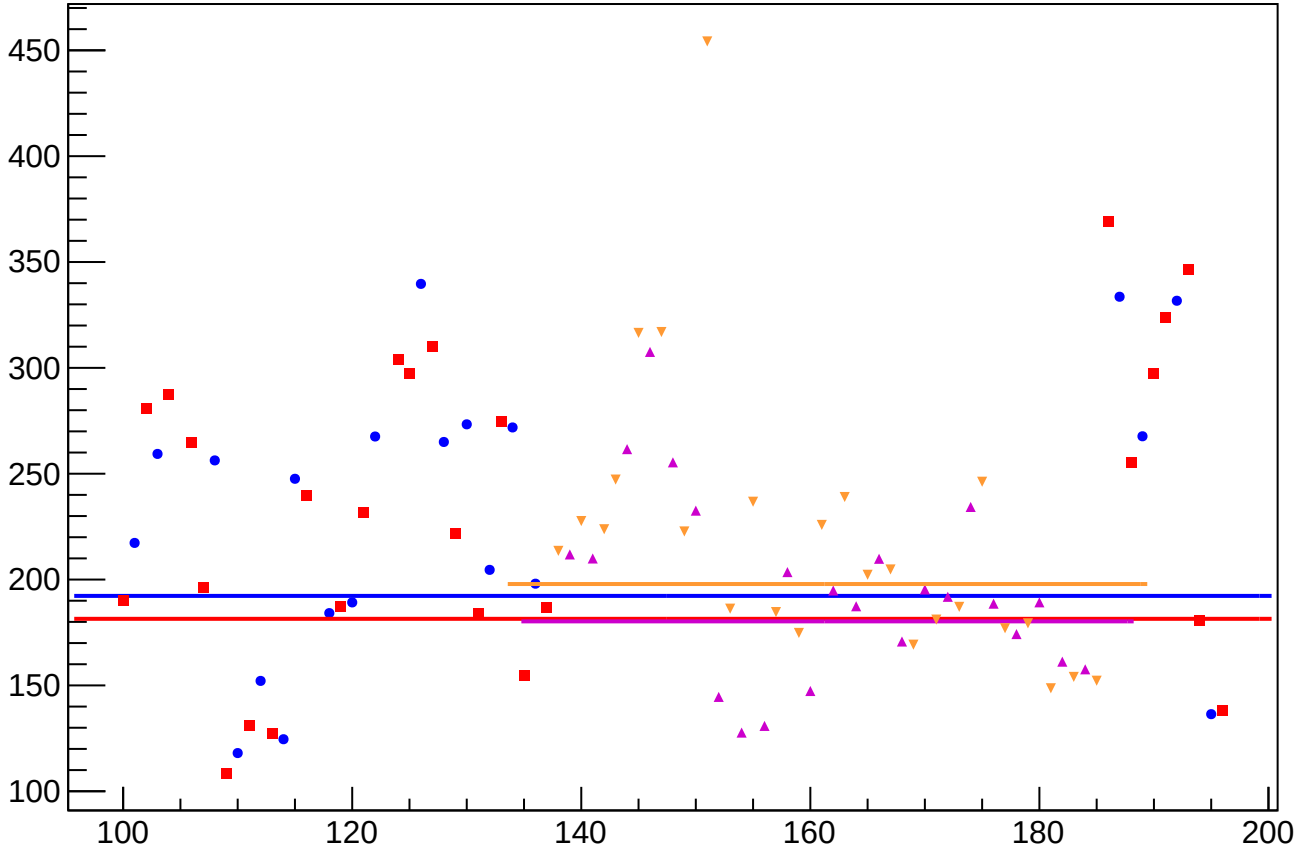
Right: -122.857+/-43.037 $\chi^2$/NDF: 36.7/45

In: 51.898+/-36.502 $\chi^2$/NDF:35.5/42

Out: 31.529+/-36.125 $\chi^2$/NDF:42.3/50

All: 41.608+/-25.676 $\chi^2$/NDF: 78.0/93

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.283+/-0.046 $\chi^2$/NDF: 1801655.5/19

Left Out: 197.890+/-0.033 $\chi^2$/NDF:1788849.3/24

Right Out: 181.455+/-0.040 $\chi^2$/NDF: 2701017.2/25

Left In: 180.248+/-0.031 $\chi^2$/NDF:1627777.0/22

Left: 188.560+/-0.023 $\chi^2$/NDF: 3568150.7/47

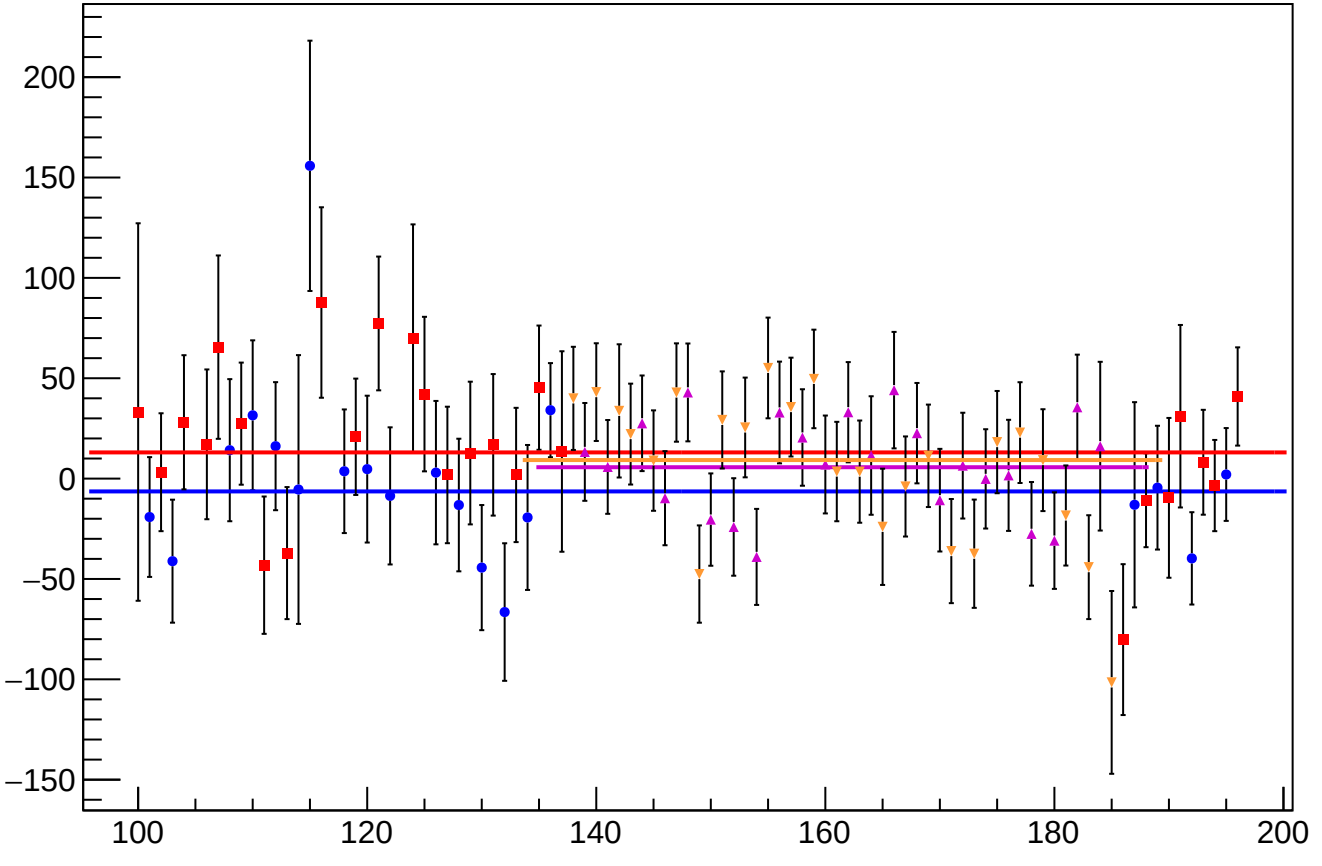
Right: 186.146+/-0.030 $\chi^2$/NDF: 4533761.1/45

In: 183.998+/-0.026 $\chi^2$/NDF:3476074.6/42

Out: 191.326+/-0.026 $\chi^2$/NDF:4589168.1/50

All: 187.700+/-0.018 $\chi^2$/NDF: 8105964.5/93

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: -6.386+/-7.219 $\chi^2$/NDF: 20.3/19

Left Out: 9.234+/-5.162 $\chi^2$/NDF:39.4/24

Right Out: 13.047+/-6.556 $\chi^2$/NDF: 25.6/25

Left In: 5.668+/-5.286 $\chi^2$/NDF:20.8/22

Left: 7.493+/-3.693 $\chi^2$/NDF: 60.5/47

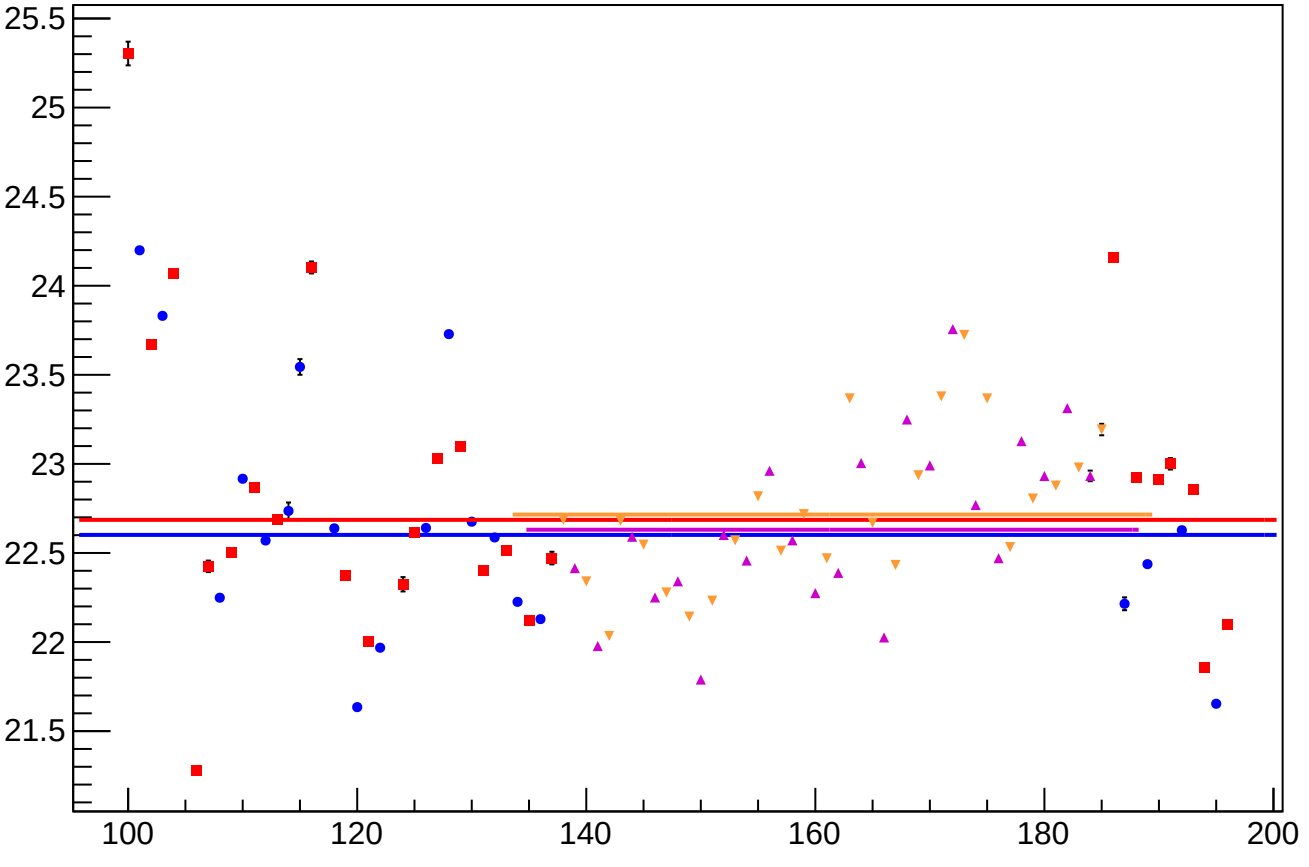
Right: 4.264+/-4.853 $\chi^2$/NDF: 49.9/45

In: 1.460+/-4.265 $\chi^2$/NDF:43.0/42

Out: 10.694+/-4.056 $\chi^2$/NDF:65.3/50

All: 6.309+/-2.939 $\chi^2$/NDF: 110.7/93

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.601+/-0.005 $\chi^2$/NDF: 18753.0/19

Left Out: 22.715+/-0.004 $\chi^2$/NDF:12181.4/24

Right Out: 22.686+/-0.005 $\chi^2$/NDF: 21869.2/25

Left In: 22.631+/-0.004 $\chi^2$/NDF:15391.4/22

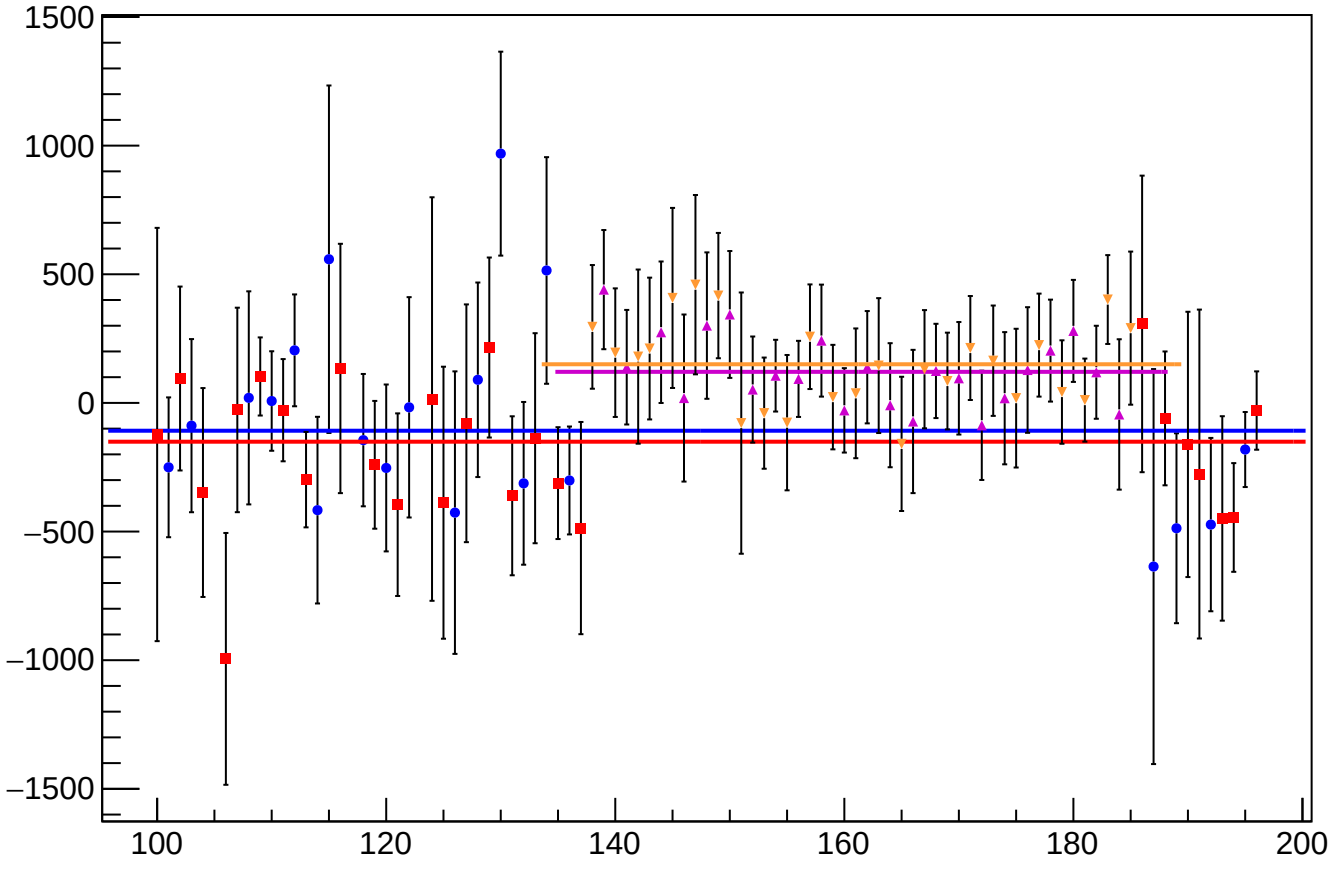
Left: 22.674+/-0.003 $\chi^2$/NDF: 27836.9/47

Right: 22.648+/-0.003 $\chi^2$/NDF: 40772.0/45

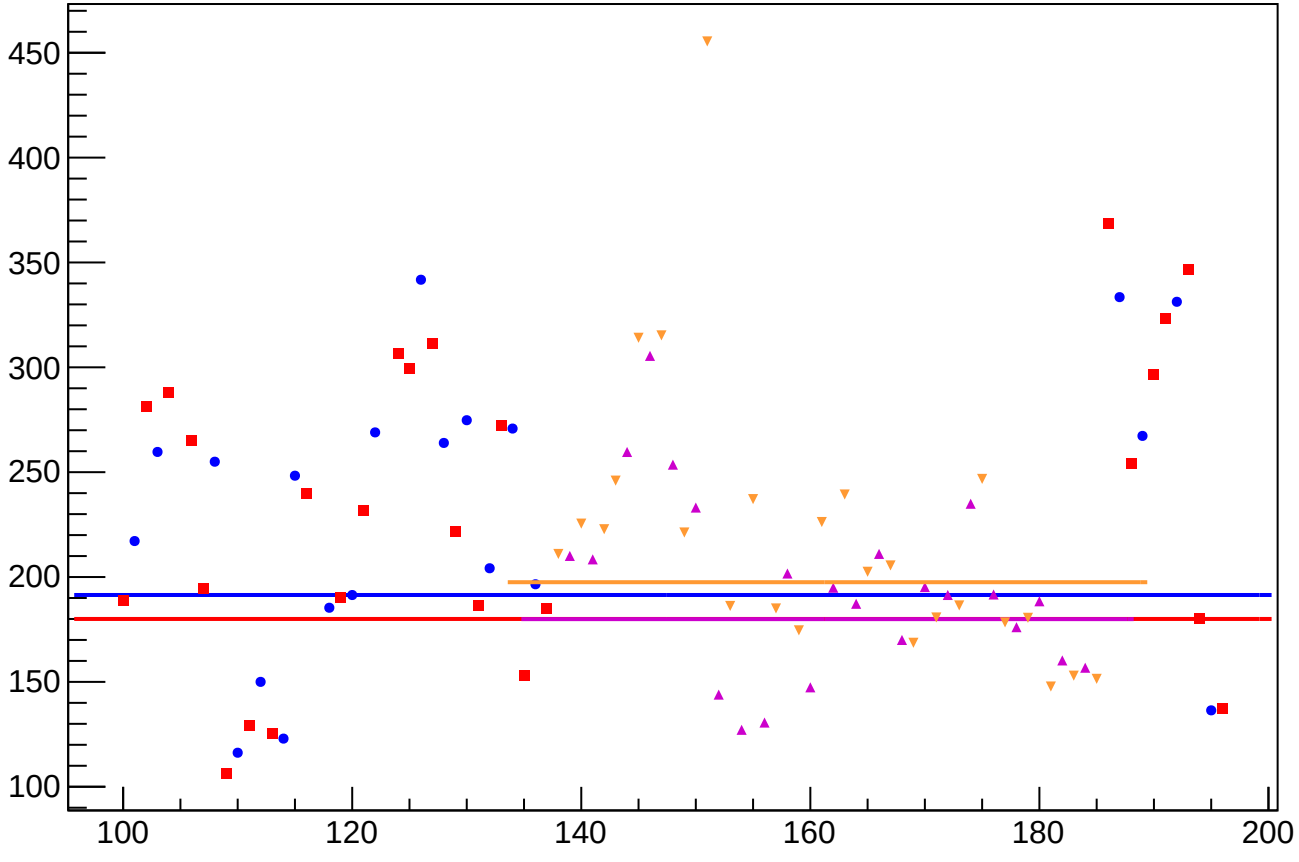
In: 22.620+/-0.003 $\chi^2$/NDF:34165.5/42

Out: 22.704+/-0.003 $\chi^2$/NDF:34075.8/50

All: 22.664+/-0.002 $\chi^2$/NDF: 68646.1/93


asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected
1500
1000
500
0
−500
−1000
−1500
100
120
140
160
180
200
Right In: -108.098+/-65.172 χ²/NDF: 19.0/19
Left Out: 150.218+/-46.535 χ²/NDF:11.0/24
Right Out: -150.756+/-56.830 χ²/NDF: 15.5/25
Left In: 120.760+/-43.920 χ²/NDF:7.9/22
Left: 134.638+/-31.941 χ²/NDF: 19.1/47
Right: -132.330+/-42.833 χ²/NDF: 34.7/45
In: 49.284+/-36.421 χ²/NDF:35.3/42
Out: 29.413+/-36.004 χ²/NDF:43.3/50
All: 39.234+/-25.605 χ²/NDF: 78.8/93

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.439+/-0.046 $\chi^2$/NDF: 1837995.5/19

Left Out: 197.534+/-0.033 $\chi^2$/NDF:1789891.0/24

Right Out: 180.009+/-0.040 $\chi^2$/NDF: 2786533.3/25

Left In: 179.923+/-0.031 $\chi^2$/NDF:1624144.3/22

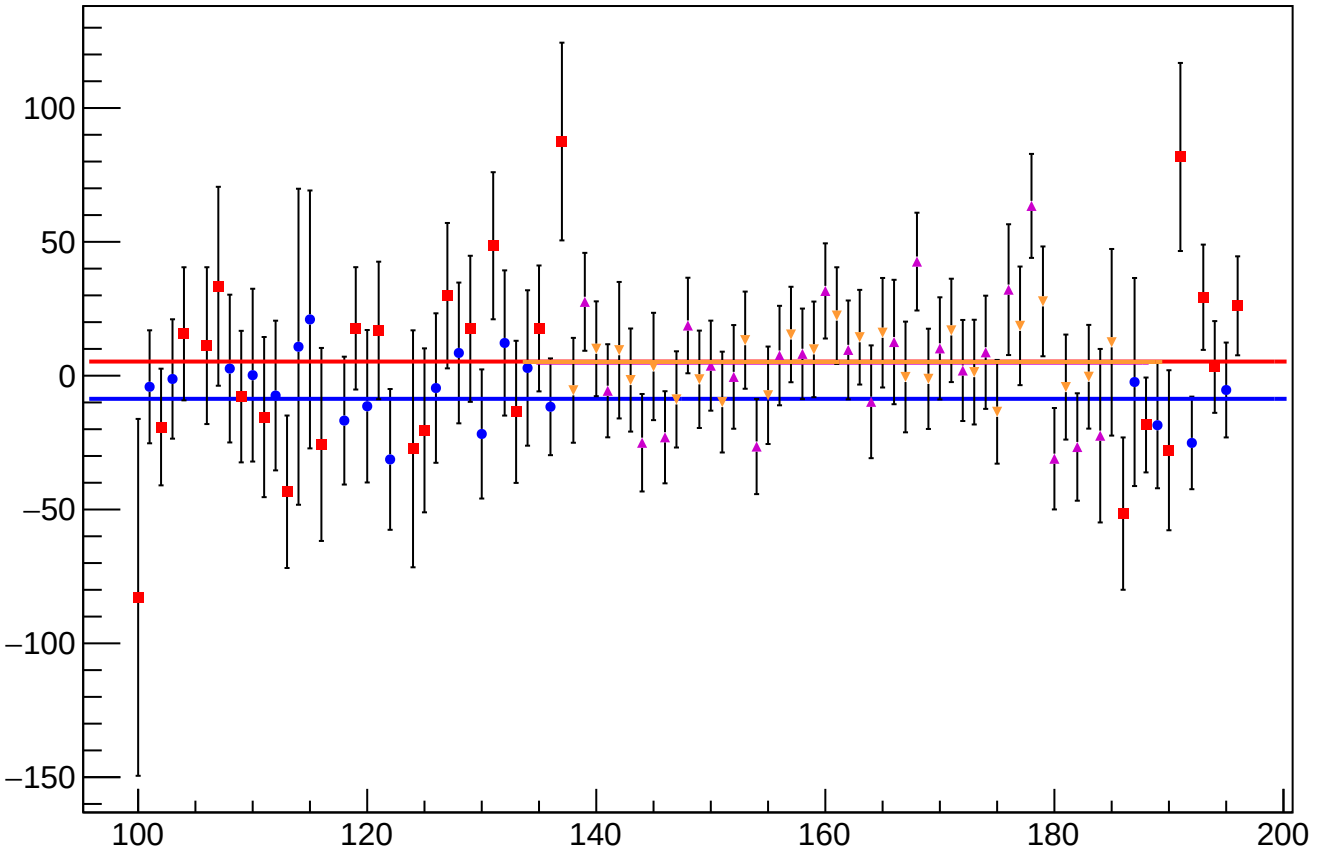
Left: 188.220+/-0.023 $\chi^2$/NDF: 3565525.8/47

Right: 184.946+/-0.030 $\chi^2$/NDF: 4659476.9/45

In: 183.520+/-0.026 $\chi^2$/NDF:3505081.5/42

Out: 190.500+/-0.025 $\chi^2$/NDF:4690281.5/50

All: 187.050+/-0.018 $\chi^2$/NDF: 8232512.3/93




Right In: -8.648+/-5.590 $\chi^2$/NDF: 4.4/19

Left Out: 5.119+/-3.890 $\chi^2$/NDF:7.9/24

Right Out: 5.275+/-5.072 $\chi^2$/NDF: 33.7/25

Left In: 4.858+/-3.980 $\chi^2$/NDF:35.5/22

Left: 4.992+/-2.782 $\chi^2$/NDF: 43.4/47

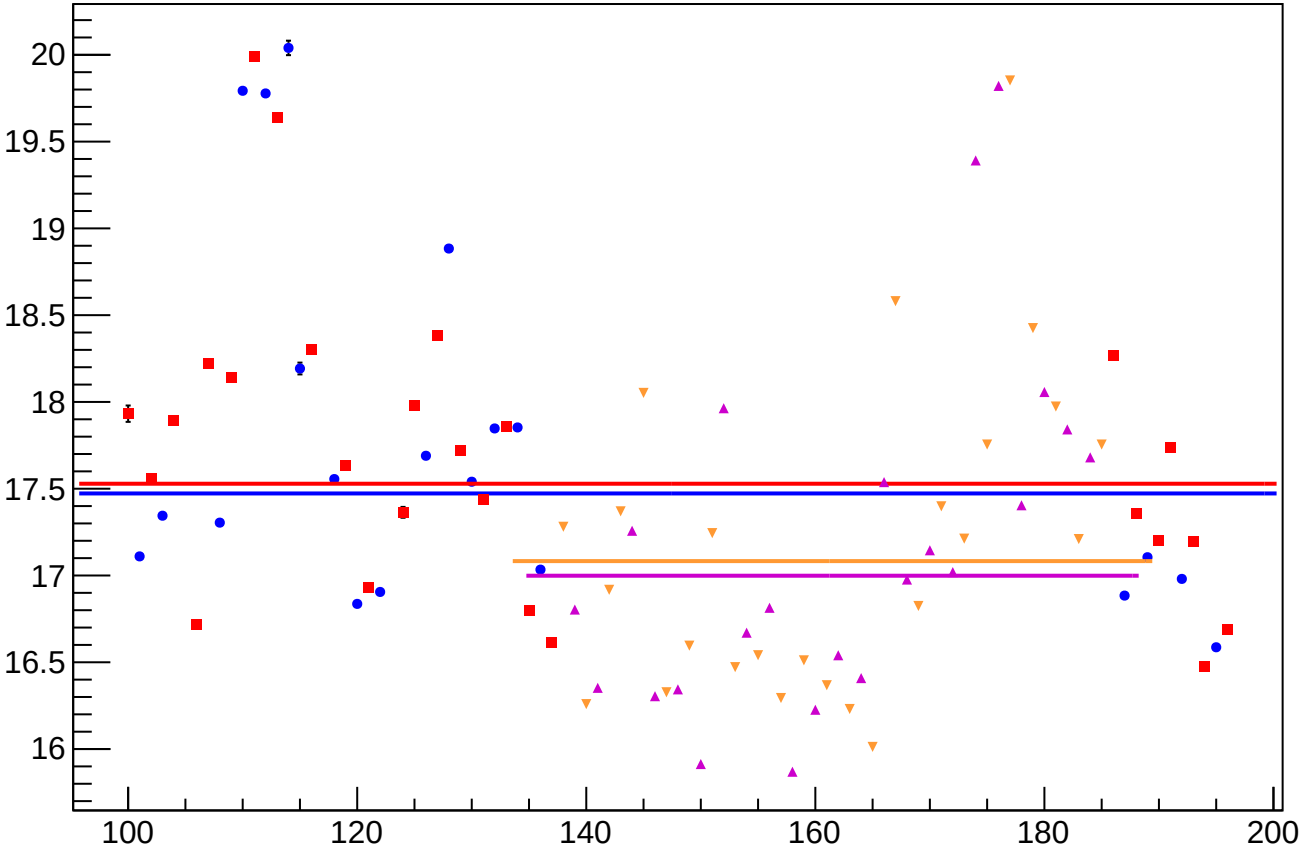
Right: -1.012+/-3.756 $\chi^2$/NDF: 41.5/45

In: 0.314+/-3.242 $\chi^2$/NDF:43.8/42

Out: 5.177+/-3.087 $\chi^2$/NDF:41.6/50

All: 2.865+/-2.236 $\chi^2$/NDF: 86.6/93

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 17.473+/-0.004 $\chi^2$/NDF: 46202.4/19

Left Out: 17.083+/-0.003 $\chi^2$/NDF:96774.9/24

Right Out: 17.529+/-0.004 $\chi^2$/NDF: 50611.4/25

Left In: 16.999+/-0.003 $\chi^2$/NDF:104021.0/22

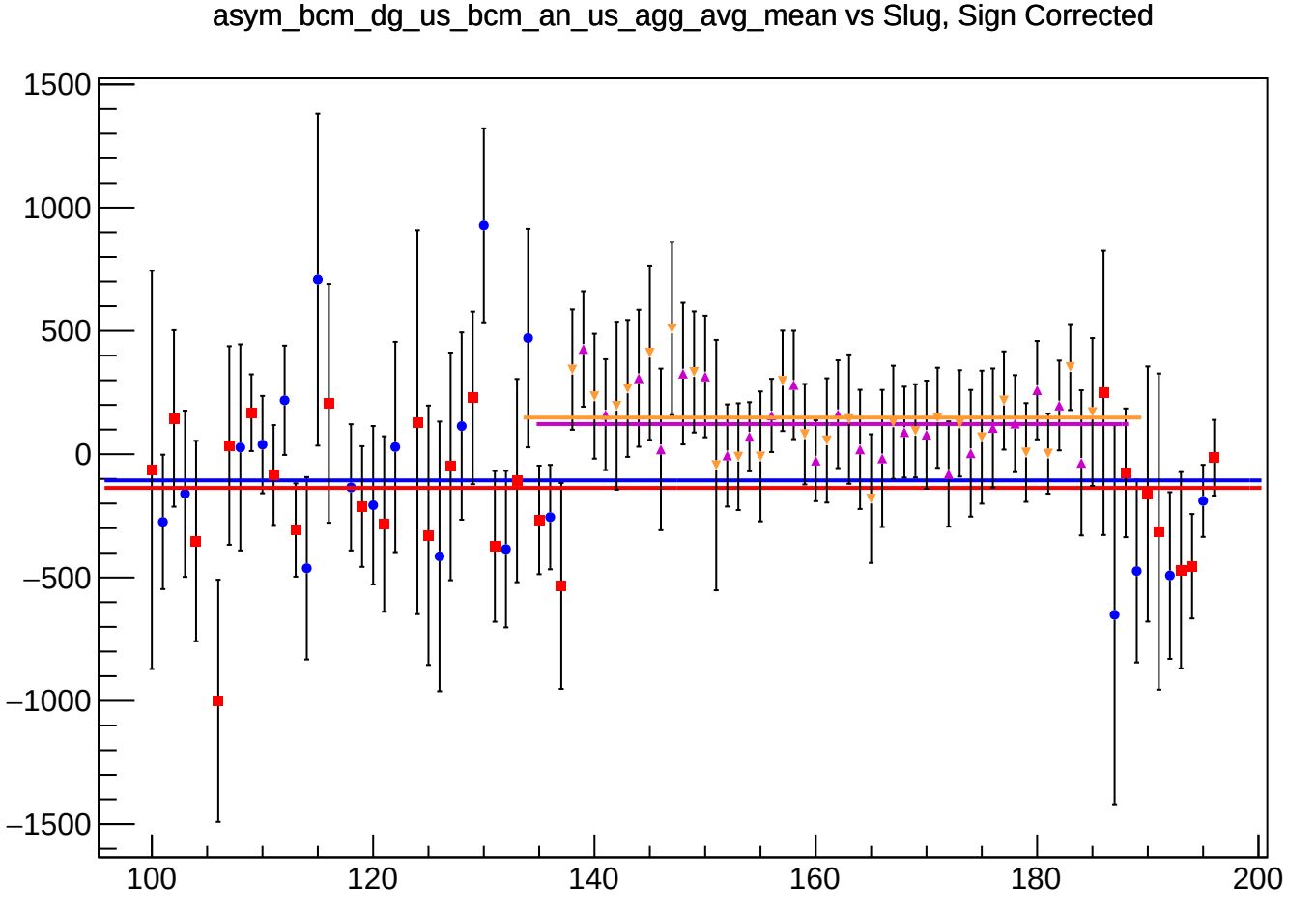
Left: 17.042+/-0.002 $\chi^2$/NDF: 201253.4/47

Right: 17.503+/-0.003 $\chi^2$/NDF: 96924.0/45

In: 17.158+/-0.002 $\chi^2$/NDF:159765.8/42

Out: 17.248+/-0.002 $\chi^2$/NDF:157115.5/50

All: 17.205+/-0.002 $\chi^2$/NDF: 317686.5/93




Right In: -105.890+/-65.568 $\chi^2$/NDF: 19.4/19

Left Out: 148.758+/-46.714 $\chi^2$/NDF:9.5/24

Right Out: -136.653+/-57.329 $\chi^2$/NDF: 17.1/25

Left In: 122.376+/-44.081 $\chi^2$/NDF:7.9/22

Left: 134.803+/-32.060 $\chi^2$/NDF: 17.6/47

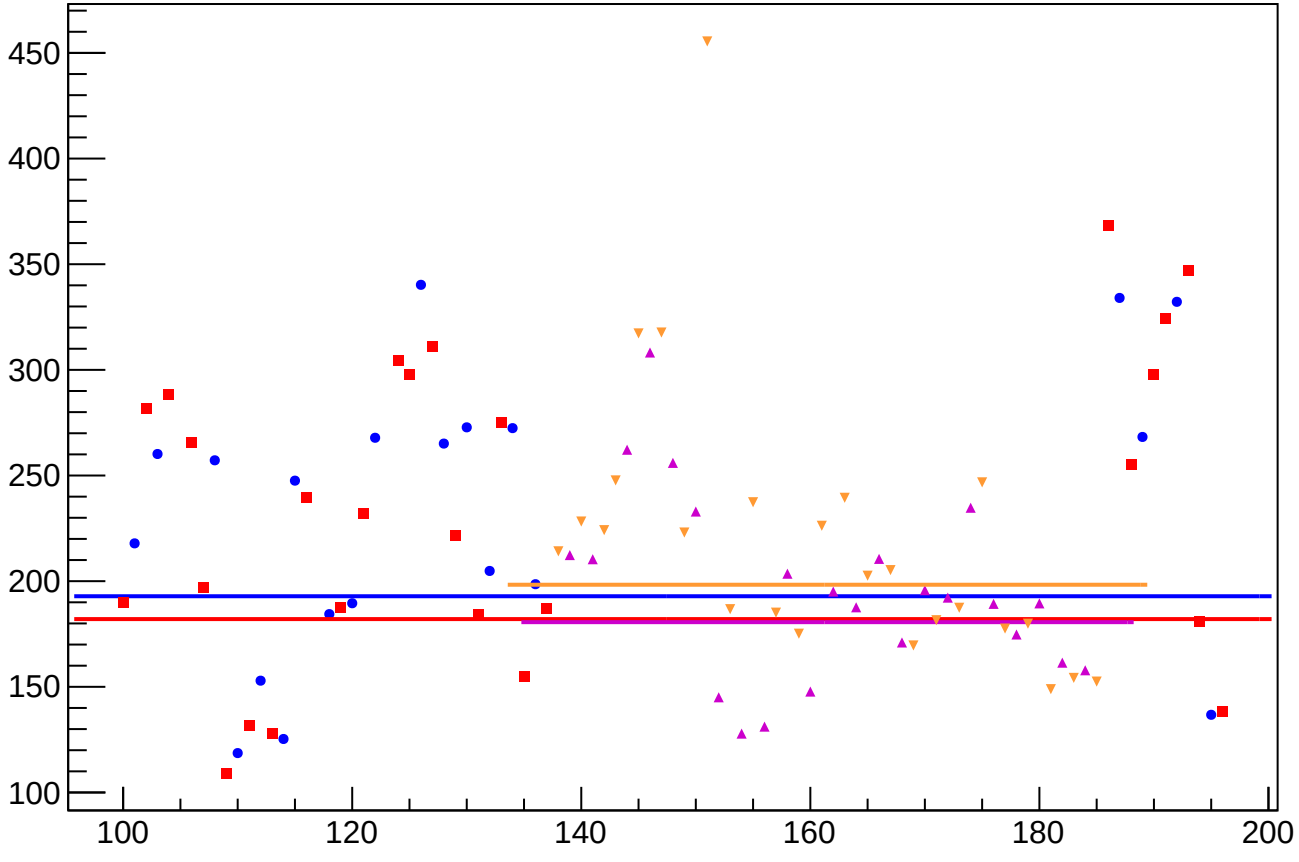
Right: -123.325+/-43.158 $\chi^2$/NDF: 36.6/45

In: 51.319+/-36.582 $\chi^2$/NDF:35.7/42

Out: 34.872+/-36.214 $\chi^2$/NDF:41.5/50

All: 43.012+/-25.736 $\chi^2$/NDF: 77.3/93

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.869+/-0.046 $\chi^2$/NDF: 1790461.5/19

Left Out: 198.313+/-0.033 $\chi^2$/NDF:1790279.4/24

Right Out: 182.057+/-0.041 $\chi^2$/NDF: 2683046.0/25

Left In: 180.601+/-0.031 $\chi^2$/NDF:1628072.3/22

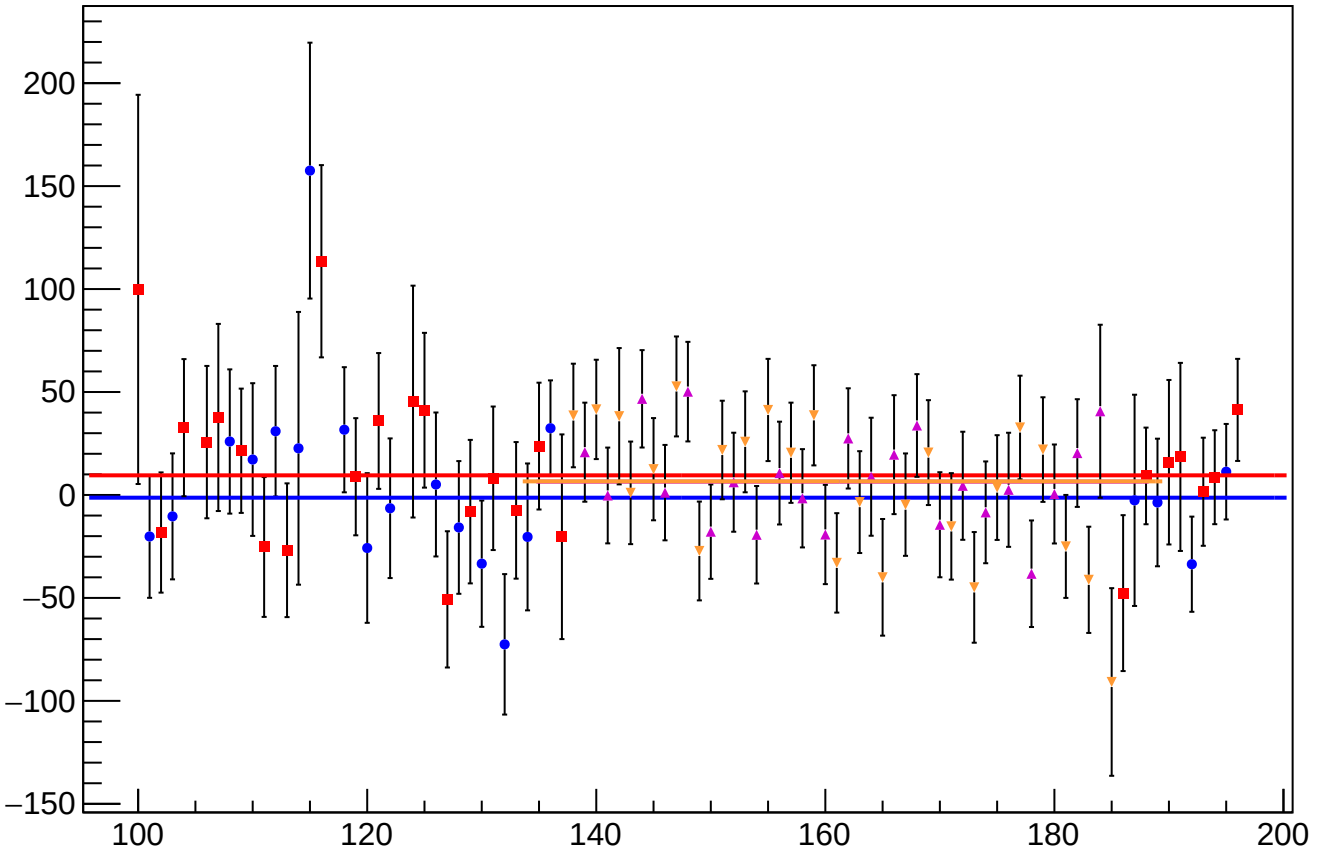
Left: 188.944+/-0.023 $\chi^2$/NDF: 3570441.0/47

Right: 186.741+/-0.031 $\chi^2$/NDF: 4504326.3/45

In: 184.420+/-0.026 $\chi^2$/NDF:3466749.0/42

Out: 191.827+/-0.026 $\chi^2$/NDF:4569969.8/50

All: 188.161+/-0.018 $\chi^2$/NDF: 8078124.9/93




Right In: -1.324+/-7.175 $\chi^2$/NDF: 21.0/19

Left Out: 6.611+/-5.117 $\chi^2$/NDF:36.9/24

Right Out: 9.533+/-6.523 $\chi^2$/NDF: 20.5/25

Left In: 6.482+/-5.247 $\chi^2$/NDF:17.4/22

Left: 6.548+/-3.663 $\chi^2$/NDF: 54.3/47

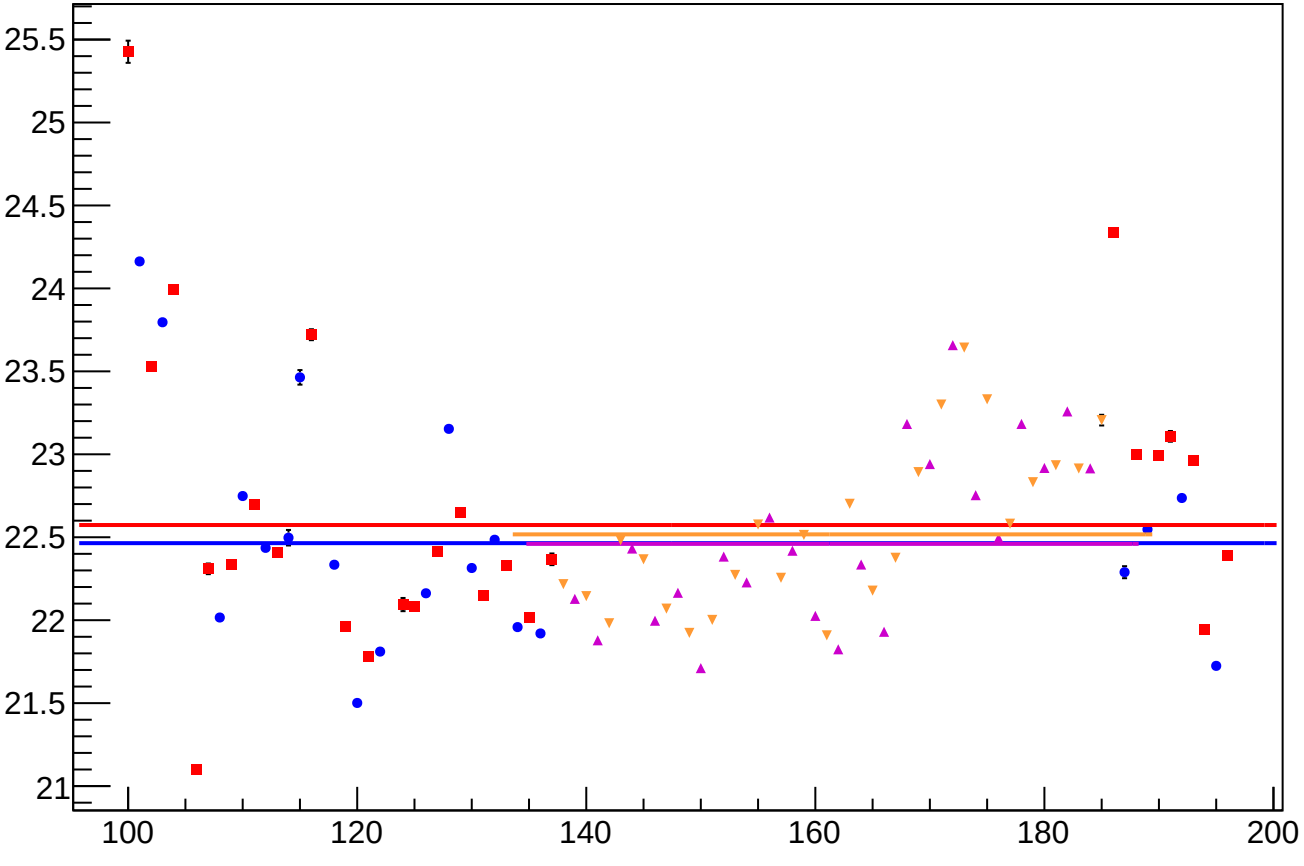
Right: 4.620+/-4.827 $\chi^2$/NDF: 42.8/45

In: 3.762+/-4.235 $\chi^2$/NDF:39.3/42

Out: 7.724+/-4.026 $\chi^2$/NDF:57.6/50

All: 5.843+/-2.918 $\chi^2$/NDF: 97.3/93

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 22.464+/-0.005 $\chi^2$/NDF: 18396.0/19

Left Out: 22.517+/-0.004 $\chi^2$/NDF:16002.5/24

Right Out: 22.574+/-0.005 $\chi^2$/NDF: 23531.0/25

Left In: 22.460+/-0.004 $\chi^2$/NDF:19117.2/22

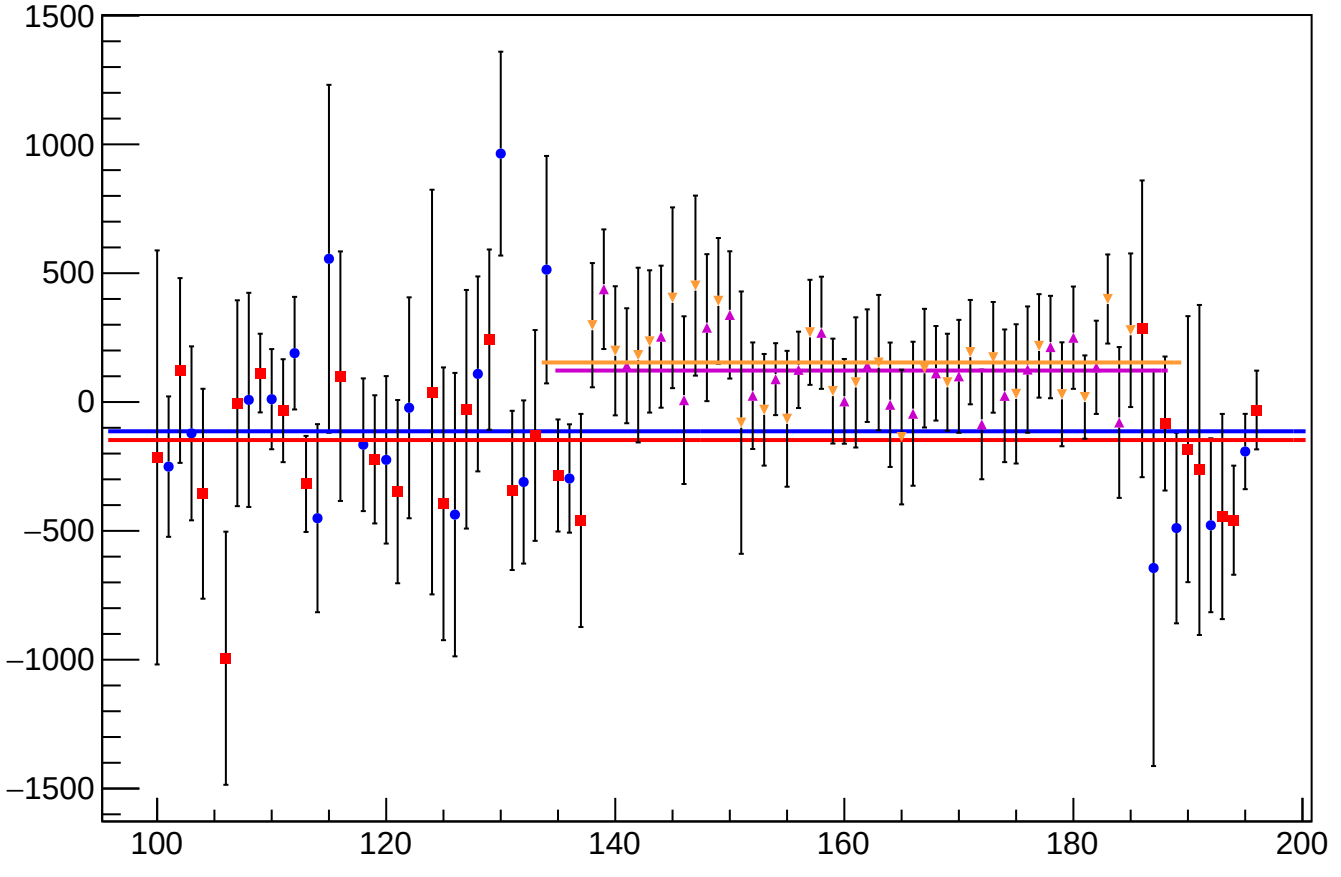
Left: 22.490+/-0.003 $\chi^2$/NDF: 35241.4/47

Right: 22.524+/-0.003 $\chi^2$/NDF: 42181.3/45

In: 22.462+/-0.003 $\chi^2$/NDF:37513.6/42

Out: 22.539+/-0.003 $\chi^2$/NDF:39625.8/50

All: 22.502+/-0.002 $\chi^2$/NDF: 77488.4/93




Right In: -113.537+/-65.353 $\chi^2$/NDF: 19.0/19

Left Out: 153.507+/-46.636 $\chi^2$/NDF:10.1/24

Right Out: -147.517+/-56.998 $\chi^2$/NDF: 15.6/25

Left In: 122.165+/-44.006 $\chi^2$/NDF:7.5/22

Left: 136.928+/-32.006 $\chi^2$/NDF: 17.8/47

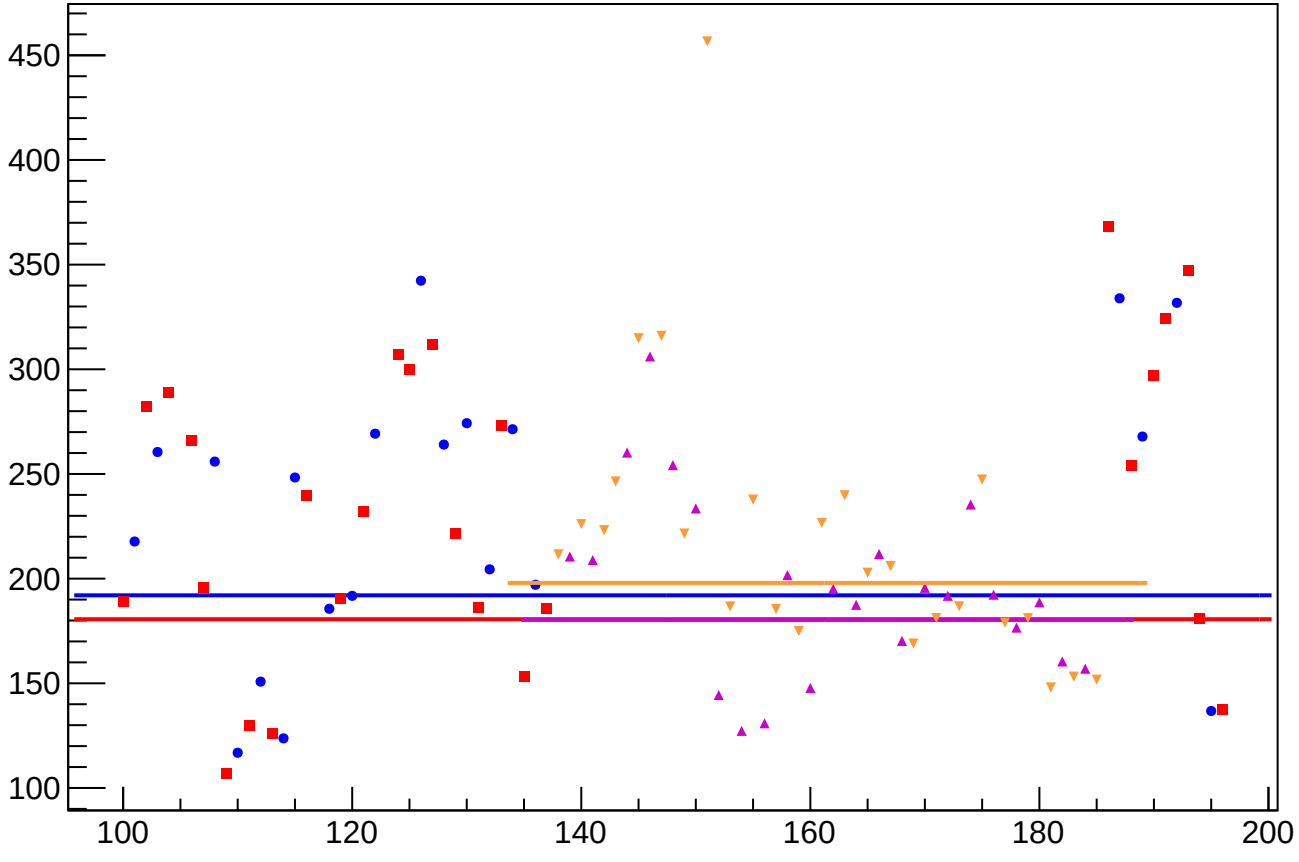
Right: -132.836+/-42.956 $\chi^2$/NDF: 34.7/45

In: 48.634+/-36.502 $\chi^2$/NDF:35.4/42

Out: 32.797+/-36.094 $\chi^2$/NDF:42.3/50

All: 40.627+/-25.665 $\chi^2$/NDF: 77.8/93

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.033+/-0.046 $\chi^2$/NDF: 1826174.1/19

Left Out: 197.957+/-0.033 $\chi^2$/NDF:1791354.6/24

Right Out: 180.622+/-0.040 $\chi^2$/NDF: 2767571.5/25

Left In: 180.274+/-0.031 $\chi^2$/NDF:1624682.7/22

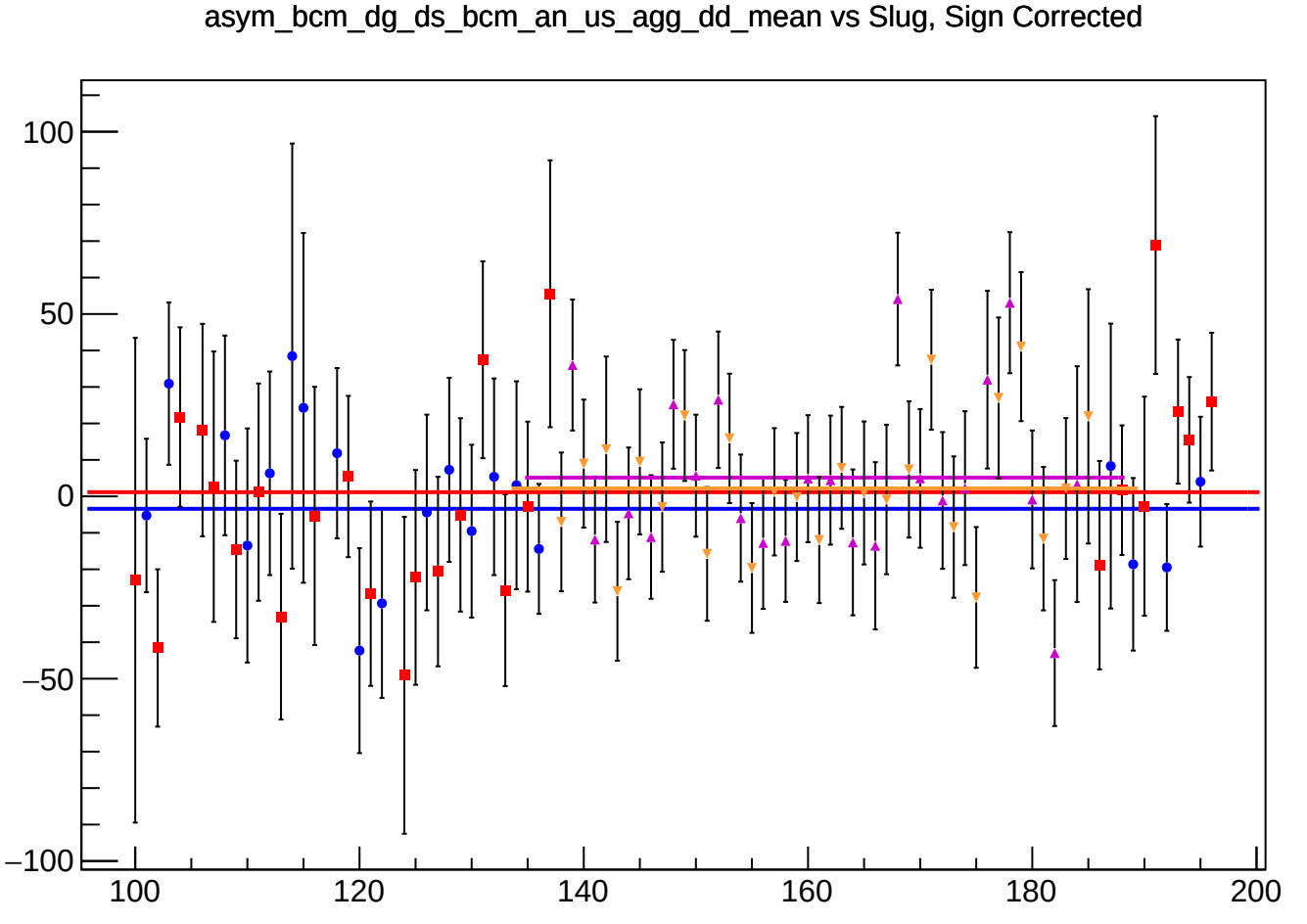
Left: 188.603+/-0.023 $\chi^2$/NDF: 3568141.6/47

Right: 185.552+/-0.030 $\chi^2$/NDF: 4628377.5/45

In: 183.943+/-0.026 $\chi^2$/NDF:3495406.3/42

Out: 191.006+/-0.026 $\chi^2$/NDF:4669737.2/50

All: 187.514+/-0.018 $\chi^2$/NDF: 8203006.9/93




Right In: -3.410+/-5.540 $\chi^2$/NDF: 9.7/19

Left Out: 2.174+/-3.825 $\chi^2$/NDF:20.0/24

Right Out: 1.146+/-5.036 $\chi^2$/NDF: 23.9/25

Left In: 5.150+/-3.924 $\chi^2$/NDF:32.3/22

Left: 3.624+/-2.739 $\chi^2$/NDF: 52.5/47

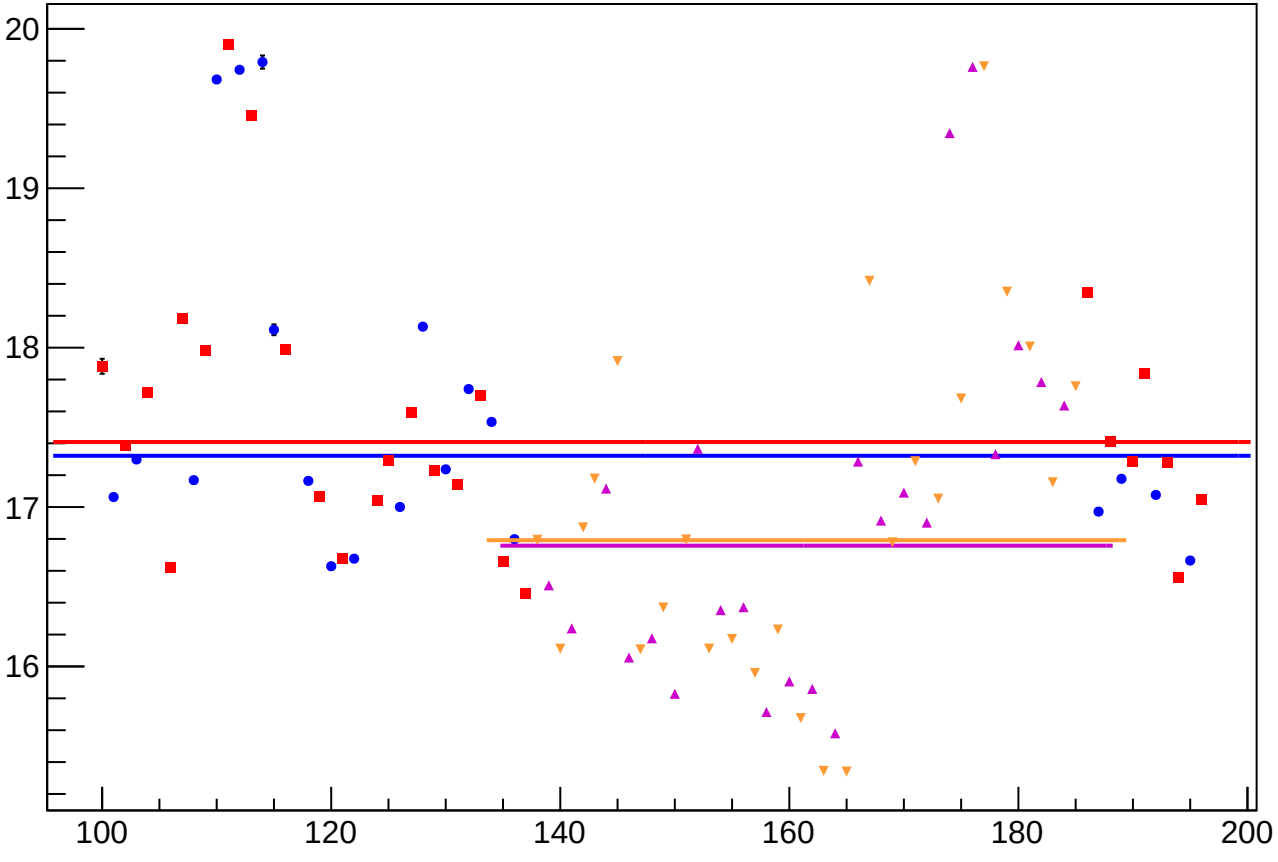
Right: -0.915+/-3.726 $\chi^2$/NDF: 34.0/45

In: 2.290+/-3.202 $\chi^2$/NDF:43.5/42

Out: 1.798+/-3.046 $\chi^2$/NDF:43.9/50

All: 2.032+/-2.207 $\chi^2$/NDF: 87.5/93

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 17.322+/-0.004 $\chi^2$/NDF: 40971.3/19

Left Out: 16.792+/-0.003 $\chi^2$/NDF:137000.5/24

Right Out: 17.408+/-0.004 $\chi^2$/NDF: 43559.8/25

Left In: 16.758+/-0.003 $\chi^2$/NDF:123306.8/22

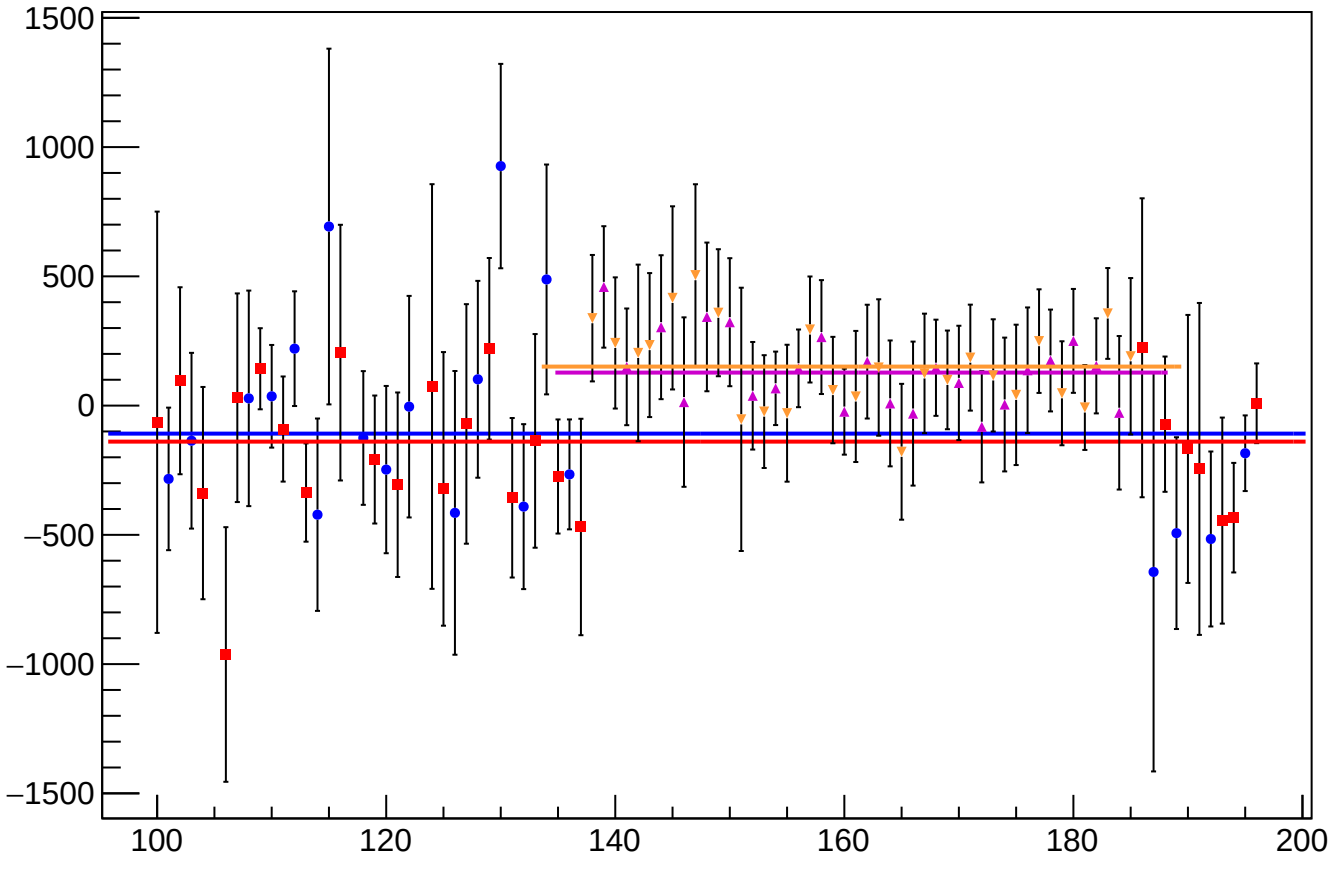
Left: 16.775+/-0.002 $\chi^2$/NDF: 260385.1/47

Right: 17.369+/-0.003 $\chi^2$/NDF: 84797.7/45

In: 16.946+/-0.002 $\chi^2$/NDF:178077.3/42

Out: 17.017+/-0.002 $\chi^2$/NDF:199548.9/50

All: 16.984+/-0.002 $\chi^2$/NDF: 378145.5/93




Right In: -108.383+/-65.866 $\chi^2$/NDF: 19.4/19

Left Out: 150.884+/-47.035 $\chi^2$/NDF:10.0/24

Right Out: -139.343+/-57.636 $\chi^2$/NDF: 15.5/25

Left In: 127.710+/-44.426 $\chi^2$/NDF:7.8/22

Left: 138.637+/-32.297 $\chi^2$/NDF: 17.9/47

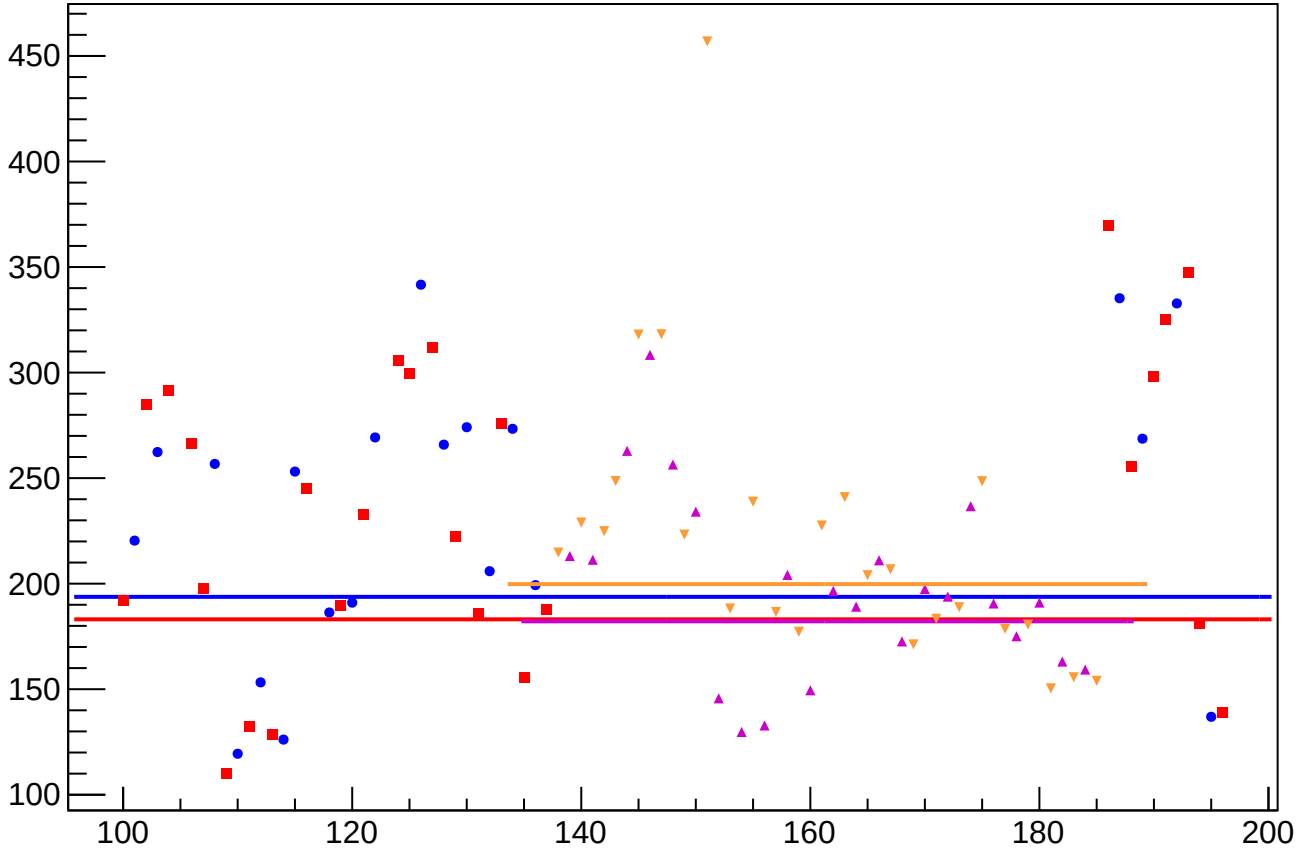
Right: -125.917+/-43.374 $\chi^2$/NDF: 35.0/45

In: 53.886+/-36.831 $\chi^2$/NDF:36.1/42

Out: 34.865+/-36.441 $\chi^2$/NDF:40.7/50

All: 44.274+/-25.904 $\chi^2$/NDF: 76.9/93

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 193.753+/-0.047 $\chi^2$/NDF: 1793281.5/19

Left Out: 199.785+/-0.033 $\chi^2$/NDF:1760326.2/24

Right Out: 183.107+/-0.041 $\chi^2$/NDF: 2675967.7/25

Left In: 182.150+/-0.031 $\chi^2$/NDF:1584358.1/22

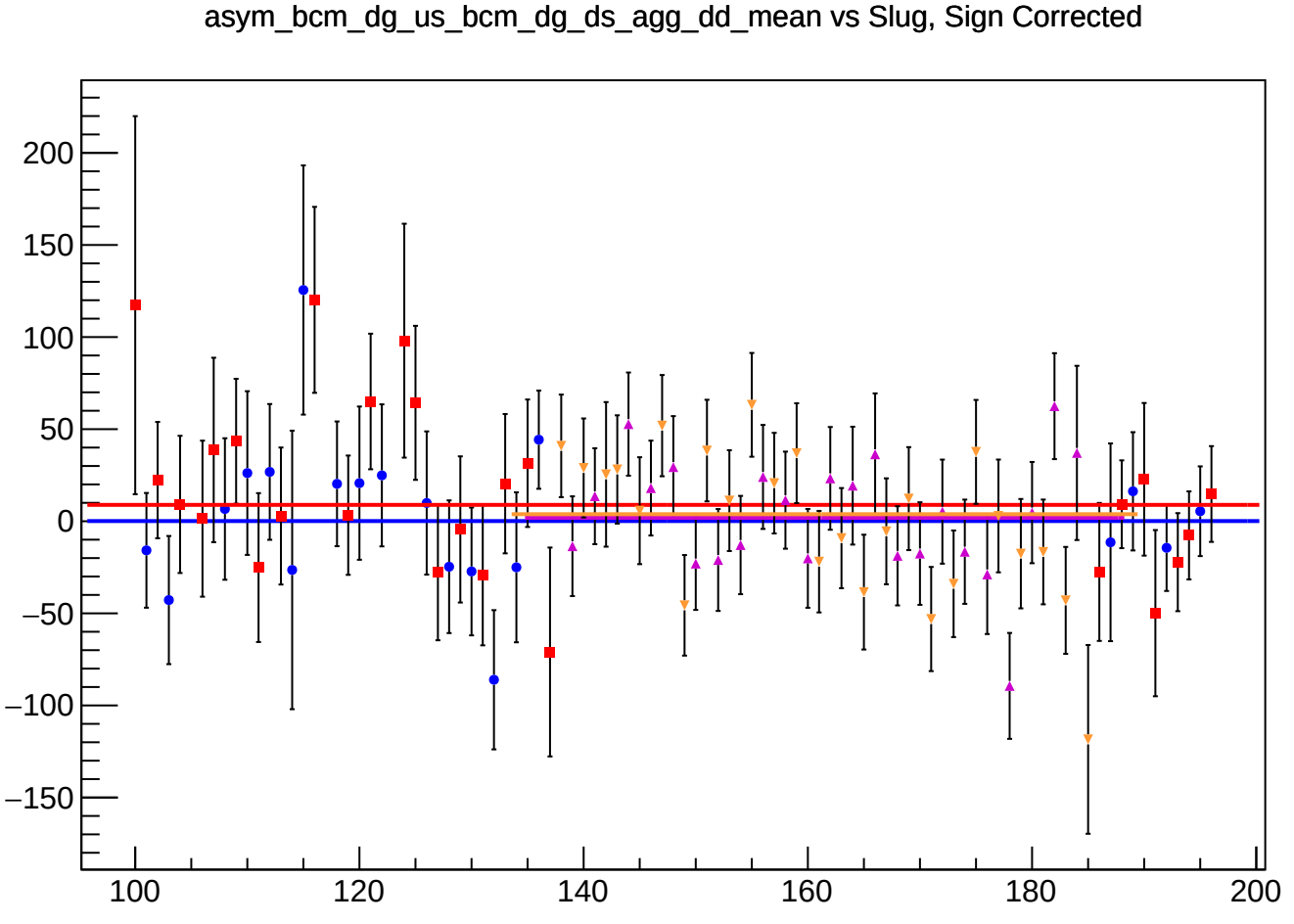
Left: 190.465+/-0.023 $\chi^2$/NDF: 3493266.0/47

Right: 187.724+/-0.031 $\chi^2$/NDF: 4498836.5/45

In: 185.778+/-0.026 $\chi^2$/NDF:3420294.7/42

Out: 193.118+/-0.026 $\chi^2$/NDF:4536809.1/50

All: 189.487+/-0.018 $\chi^2$/NDF: 7997240.9/93




Right In: 0.103+/-7.883 $\chi^2$/NDF: 17.5/19

Left Out: 3.831+/-5.789 $\chi^2$/NDF:37.6/24

Right Out: 8.891+/-7.074 $\chi^2$/NDF: 23.7/25

Left In: 1.850+/-5.893 $\chi^2$/NDF:28.1/22

Left: 2.858+/-4.130 $\chi^2$/NDF: 65.7/47

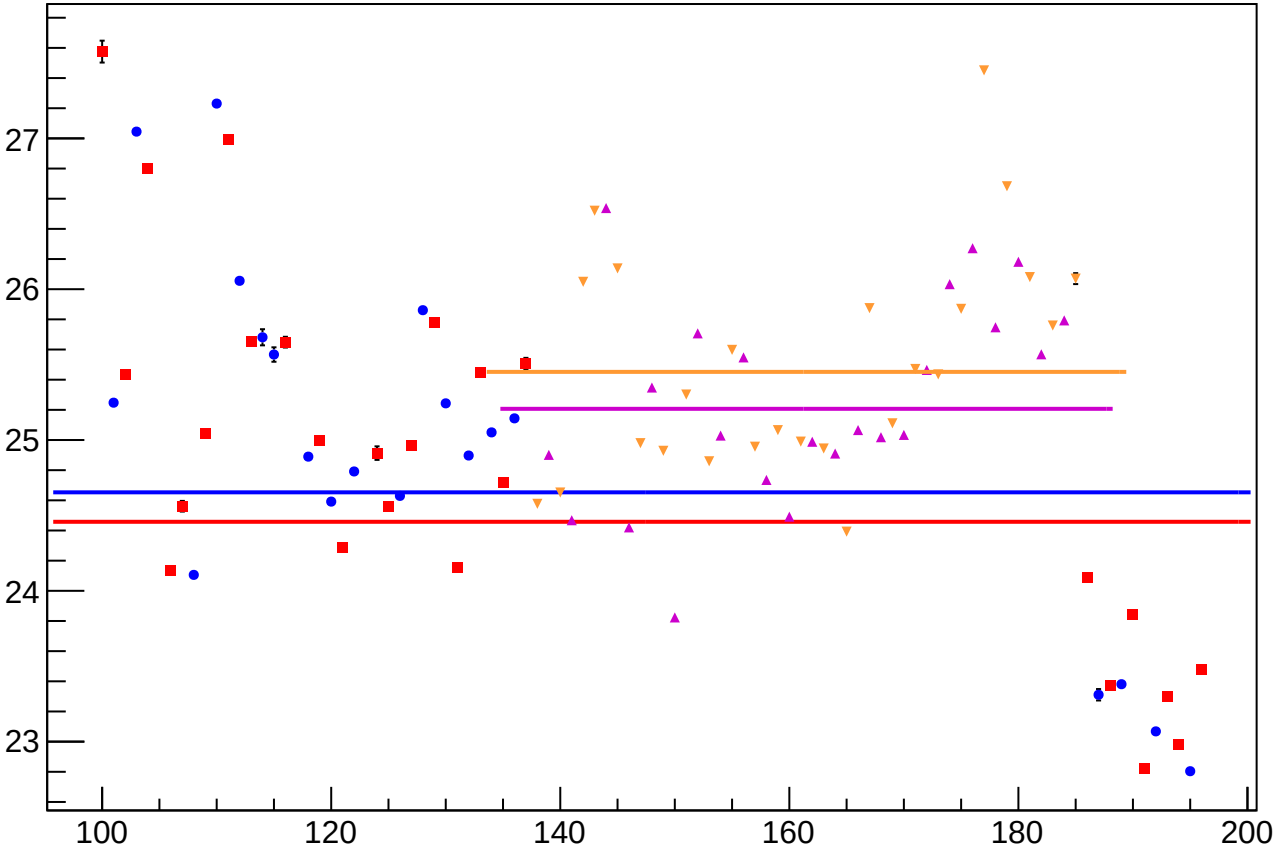
Right: 4.971+/-5.265 $\chi^2$/NDF: 41.8/45

In: 1.223+/-4.720 $\chi^2$/NDF:45.6/42

Out: 5.860+/-4.480 $\chi^2$/NDF:61.6/50

All: 3.663+/-3.249 $\chi^2$/NDF: 107.7/93

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 24.653+/-0.006 $\chi^2$/NDF: 49927.3/19

Left Out: 25.452+/-0.004 $\chi^2$/NDF:29612.4/24

Right Out: 24.458+/-0.005 $\chi^2$/NDF: 50711.4/25

Left In: 25.207+/-0.004 $\chi^2$/NDF:25827.4/22

Left: 25.332+/-0.003 $\chi^2$/NDF: 57199.0/47

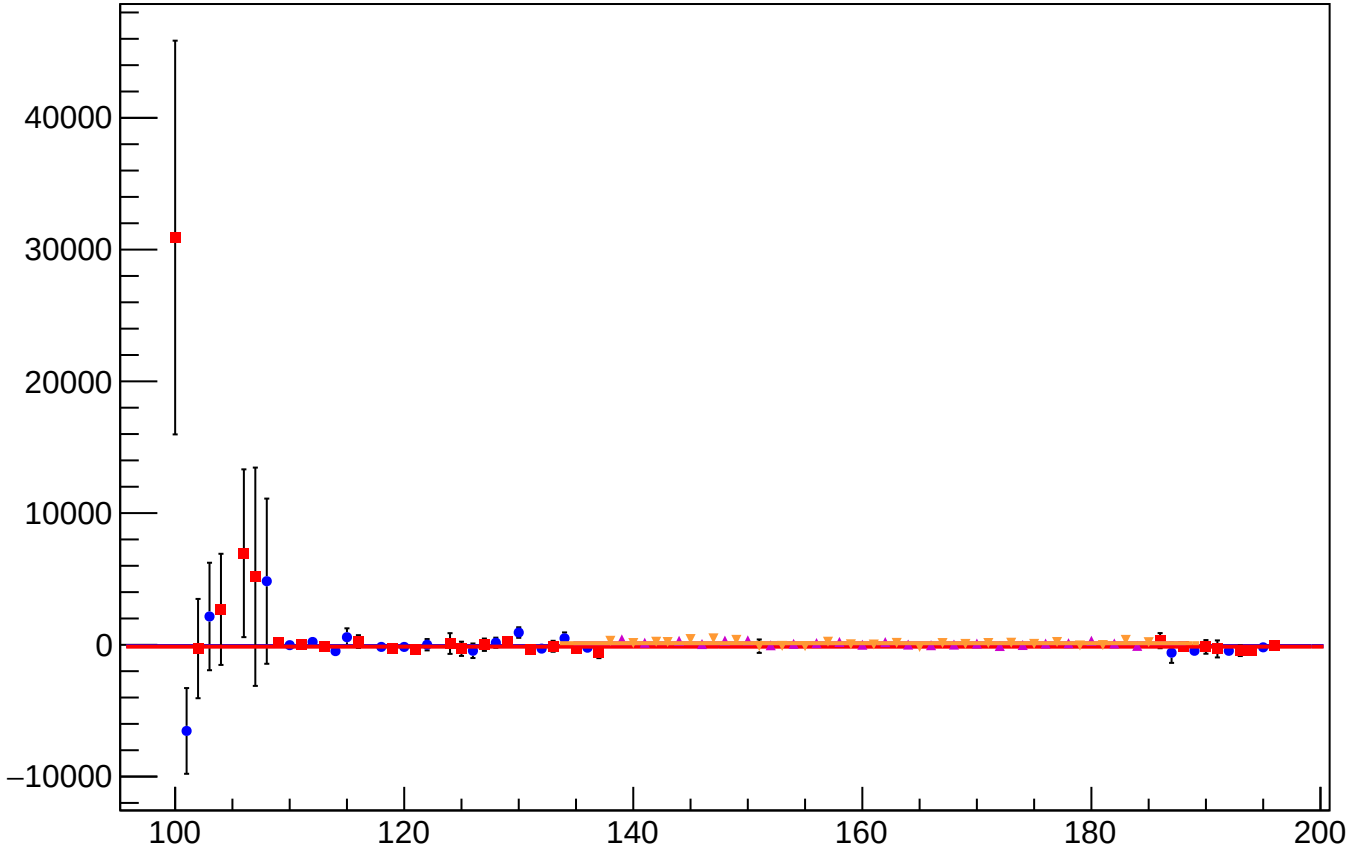
Right: 24.545+/-0.004 $\chi^2$/NDF: 101318.6/45

In: 25.008+/-0.003 $\chi^2$/NDF:82085.4/42

Out: 25.053+/-0.003 $\chi^2$/NDF:103975.7/50

All: 25.032+/-0.002 $\chi^2$/NDF: 186156.2/93

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -92.547+/-70.660 $\chi^2$/NDF: 22.0/19

Left Out: 125.161+/-46.925 $\chi^2$/NDF:11.1/24

Right Out: -136.998+/-62.803 $\chi^2$/NDF: 17.8/25

Left In: 117.291+/-44.871 $\chi^2$/NDF:8.0/22

Left: 121.050+/-32.431 $\chi^2$/NDF: 19.1/47

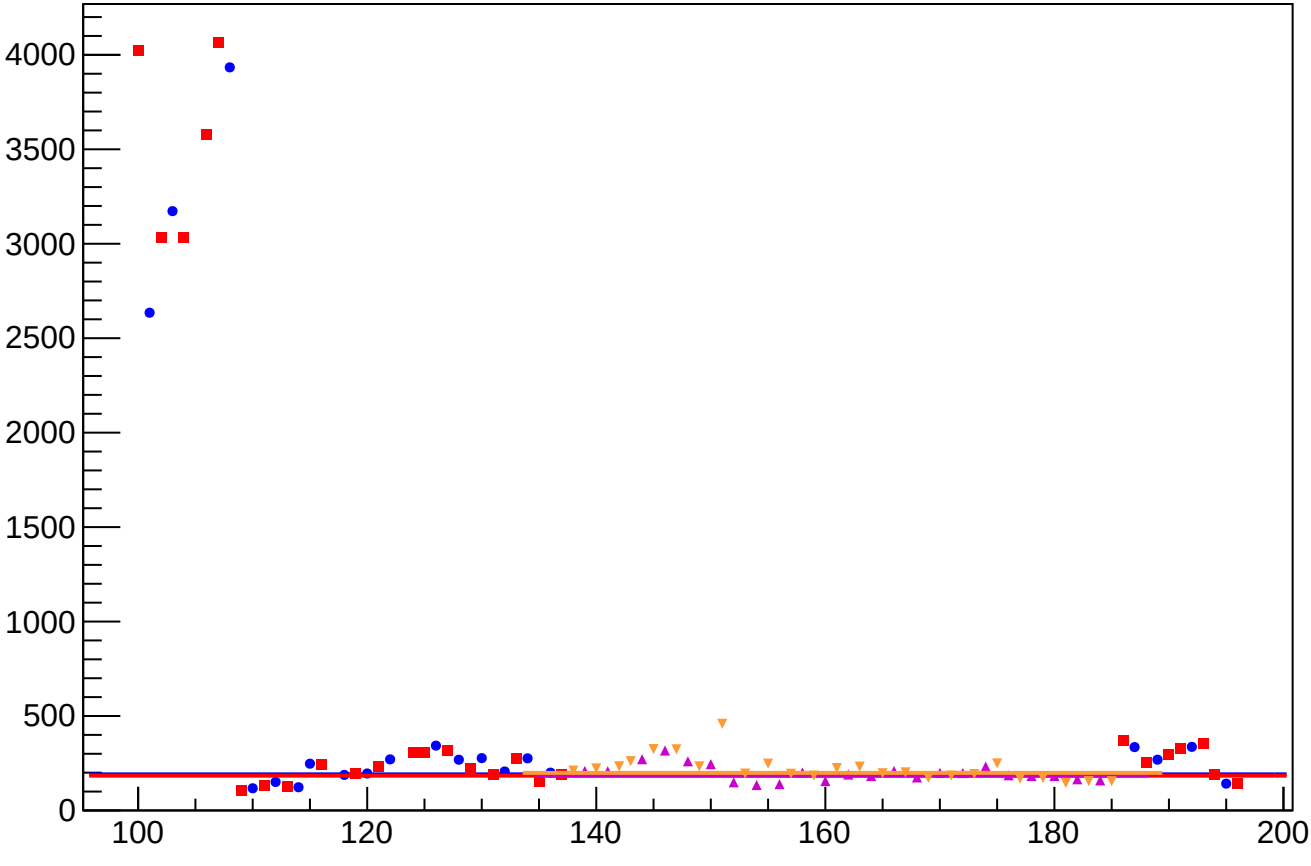
Right: -117.381+/-46.942 $\chi^2$/NDF: 40.0/45

In: 56.989+/-37.879 $\chi^2$/NDF:36.3/42

Out: 31.237+/-37.591 $\chi^2$/NDF:40.1/50

All: 44.015+/-26.682 $\chi^2$/NDF: 76.6/93

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.120+/-0.050 $\chi^2$/NDF: 4550446.3/19

Left Out: 198.994+/-0.033 $\chi^2$/NDF:1902155.1/24

Right Out: 184.243+/-0.044 $\chi^2$/NDF: 5365529.1/25

Left In: 184.399+/-0.032 $\chi^2$/NDF:1446306.0/22

Left: 191.370+/-0.023 $\chi^2$/NDF: 3449526.4/47

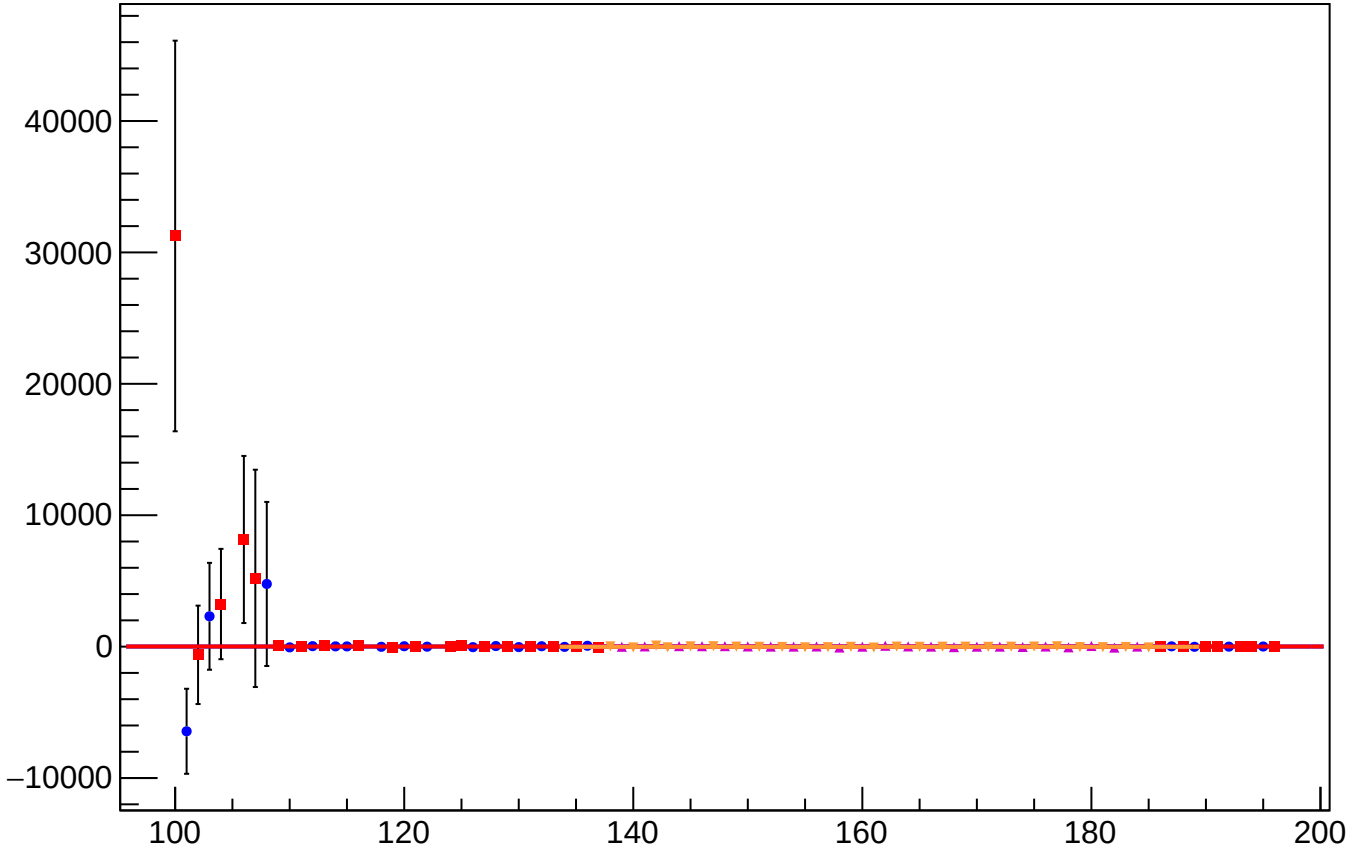
Right: 187.278+/-0.033 $\chi^2$/NDF: 9926558.6/45

In: 186.330+/-0.027 $\chi^2$/NDF:6009647.5/42

Out: 193.709+/-0.027 $\chi^2$/NDF:7338487.9/50

All: 190.048+/-0.019 $\chi^2$/NDF: 13386372.0/93

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 6.960+/-9.611 $\chi^2$/NDF: 16.5/19

Left Out: -14.827+/-6.512 $\chi^2$/NDF:22.2/24

Right Out: 11.188+/-8.783 $\chi^2$/NDF: 27.8/25

Left In: 2.172+/-6.703 $\chi^2$/NDF:28.3/22

Left: -6.574+/-4.671 $\chi^2$/NDF: 53.9/47

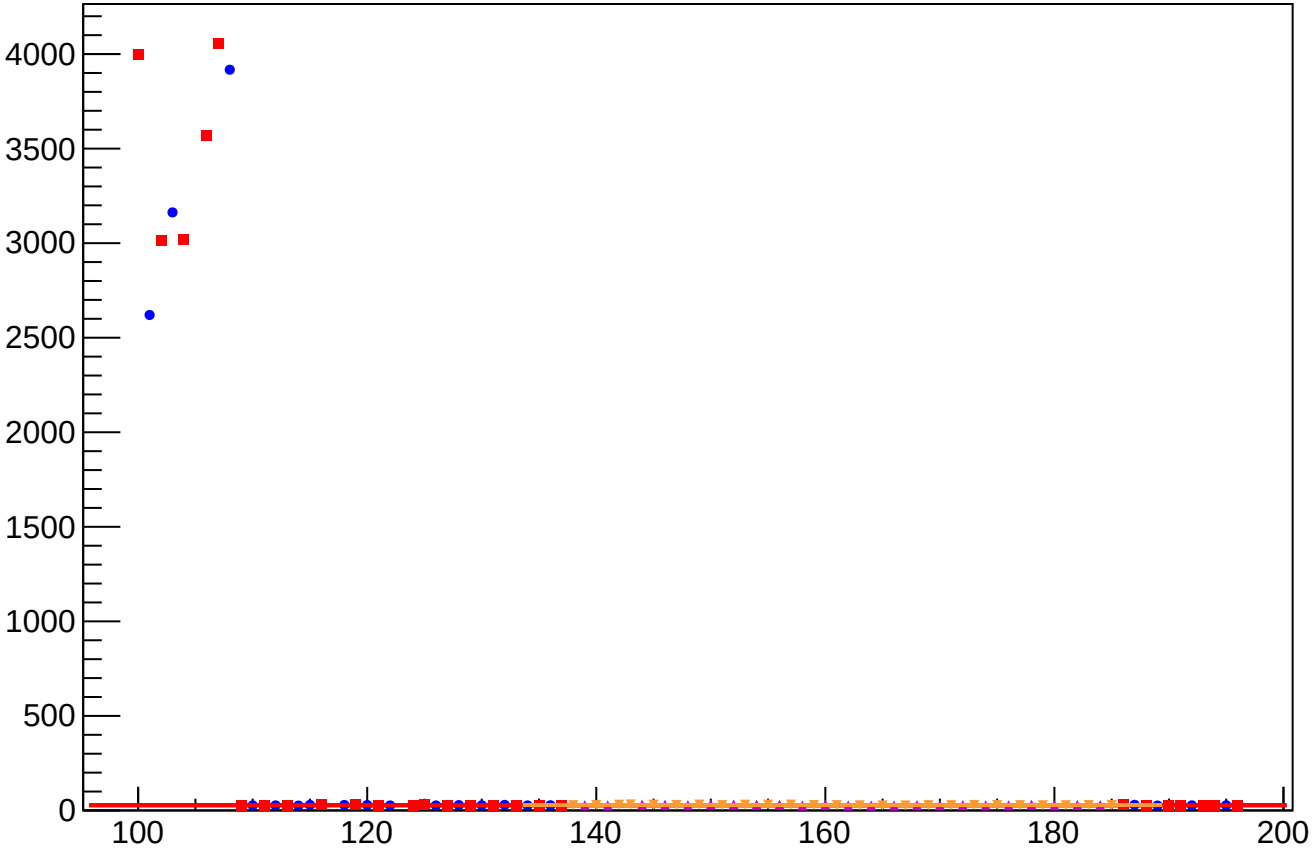
Right: 9.264+/-6.484 $\chi^2$/NDF: 44.4/45

In: 3.739+/-5.498 $\chi^2$/NDF:44.9/42

Out: -5.601+/-5.231 $\chi^2$/NDF:55.7/50

All: -1.163+/-3.790 $\chi^2$/NDF: 102.2/93

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.444+/-0.007 $\chi^2$/NDF: 3272800.4/19

Left Out: 28.586+/-0.005 $\chi^2$/NDF:88130.9/24

Right Out: 27.588+/-0.006 $\chi^2$/NDF: 3580778.1/25

Left In: 28.606+/-0.005 $\chi^2$/NDF:122928.2/22

Left: 28.595+/-0.003 $\chi^2$/NDF: 211068.4/47

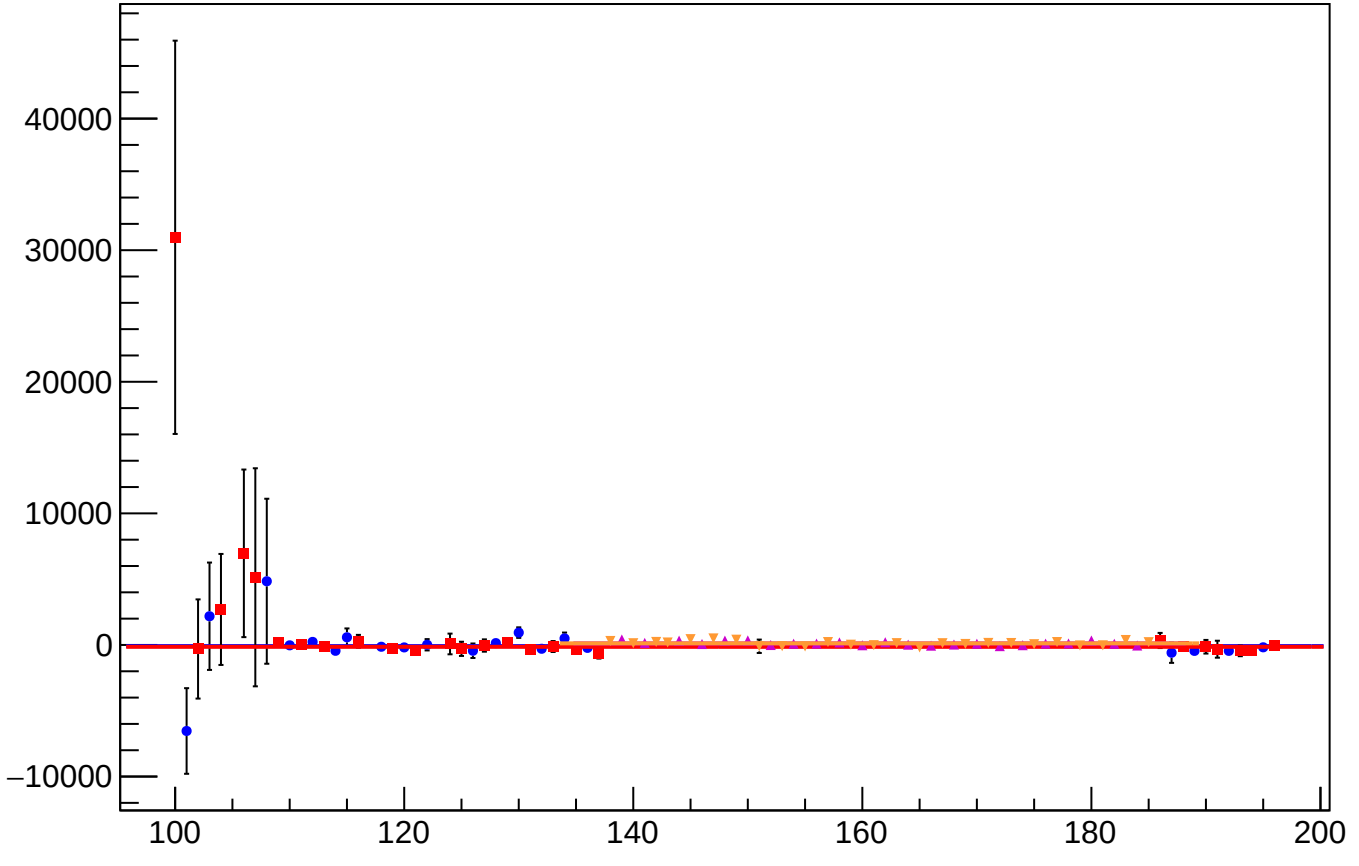
Right: 27.523+/-0.005 $\chi^2$/NDF: 6853821.9/45

In: 28.226+/-0.004 $\chi^2$/NDF:3415378.2/42

Out: 28.232+/-0.004 $\chi^2$/NDF:3685562.6/50

All: 28.229+/-0.003 $\chi^2$/NDF: 7100942.1/93

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs Slug, Sign Corrected




Right In: -88.106+/-70.470 $\chi^2$/NDF: 22.0/19

Left Out: 121.915+/-46.825 $\chi^2$/NDF:12.0/24

Right Out: -140.037+/-62.636 $\chi^2$/NDF: 18.1/25

Left In: 116.243+/-44.786 $\chi^2$/NDF:8.4/22

Left: 118.953+/-32.365 $\chi^2$/NDF: 20.4/47

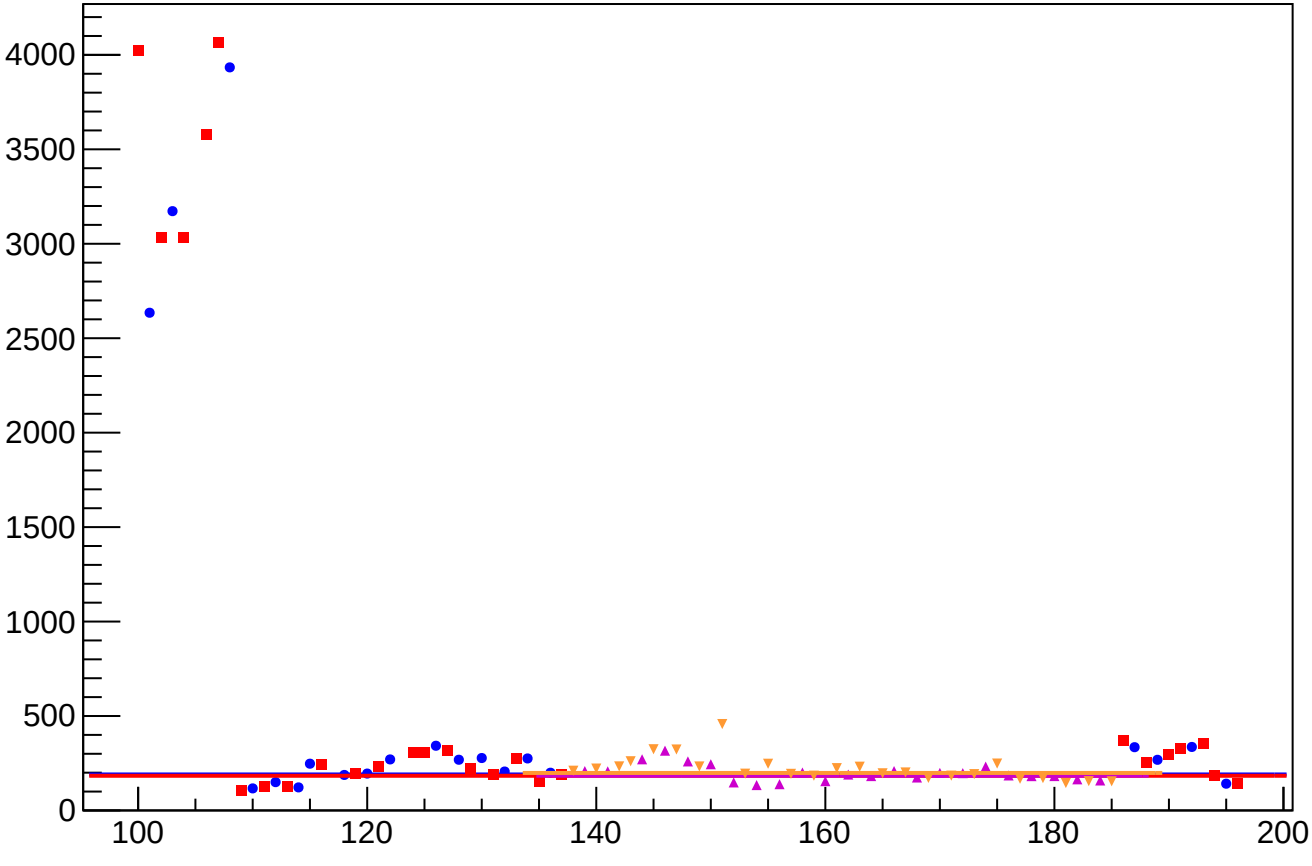
Right: -117.117+/-46.816 $\chi^2$/NDF: 40.3/45

In: 57.452+/-37.798 $\chi^2$/NDF:36.4/42

Out: 28.004+/-37.504 $\chi^2$/NDF:41.3/50

All: 42.613+/-26.623 $\chi^2$/NDF: 78.0/93

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 190.524+/-0.050 $\chi^2$/NDF: 4563676.2/19

Left Out: 198.571+/-0.033 $\chi^2$/NDF:1901504.1/24

Right Out: 183.658+/-0.044 $\chi^2$/NDF: 5384197.7/25

Left In: 184.051+/-0.032 $\chi^2$/NDF:1445426.0/22

Left: 190.988+/-0.023 $\chi^2$/NDF: 3447360.1/47

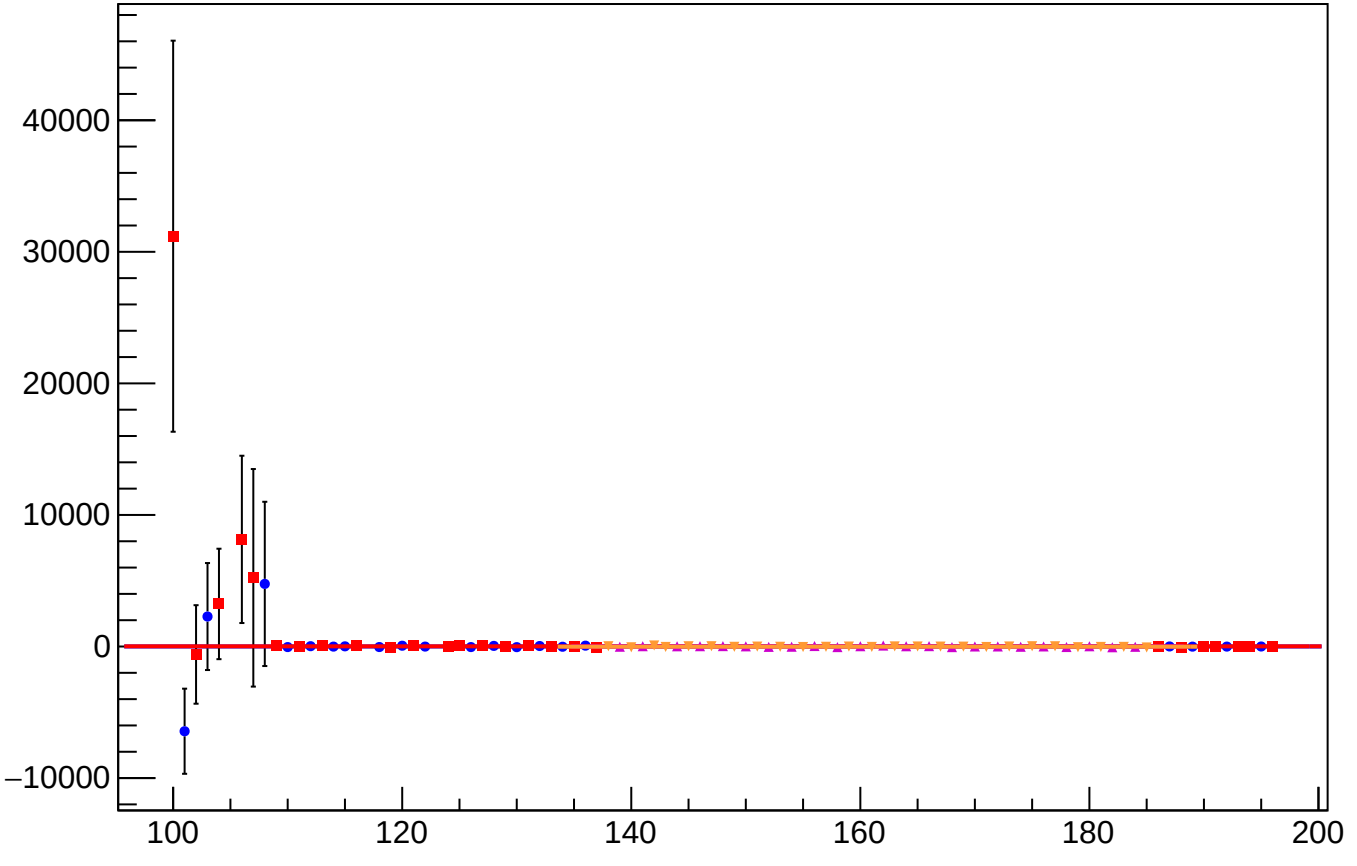
Right: 186.688+/-0.033 $\chi^2$/NDF: 9958478.7/45

In: 185.913+/-0.027 $\chi^2$/NDF:6021121.2/42

Out: 193.224+/-0.027 $\chi^2$/NDF:7358423.6/50

All: 189.597+/-0.019 $\chi^2$/NDF: 13417252.2/93

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 3.053+/-9.652 $\chi^2$/NDF: 18.6/19

Left Out: -11.862+/-6.541 $\chi^2$/NDF:17.9/24

Right Out: 14.474+/-8.810 $\chi^2$/NDF: 27.2/25

Left In: 2.576+/-6.732 $\chi^2$/NDF:22.2/22

Left: -4.851+/-4.691 $\chi^2$/NDF: 42.4/47

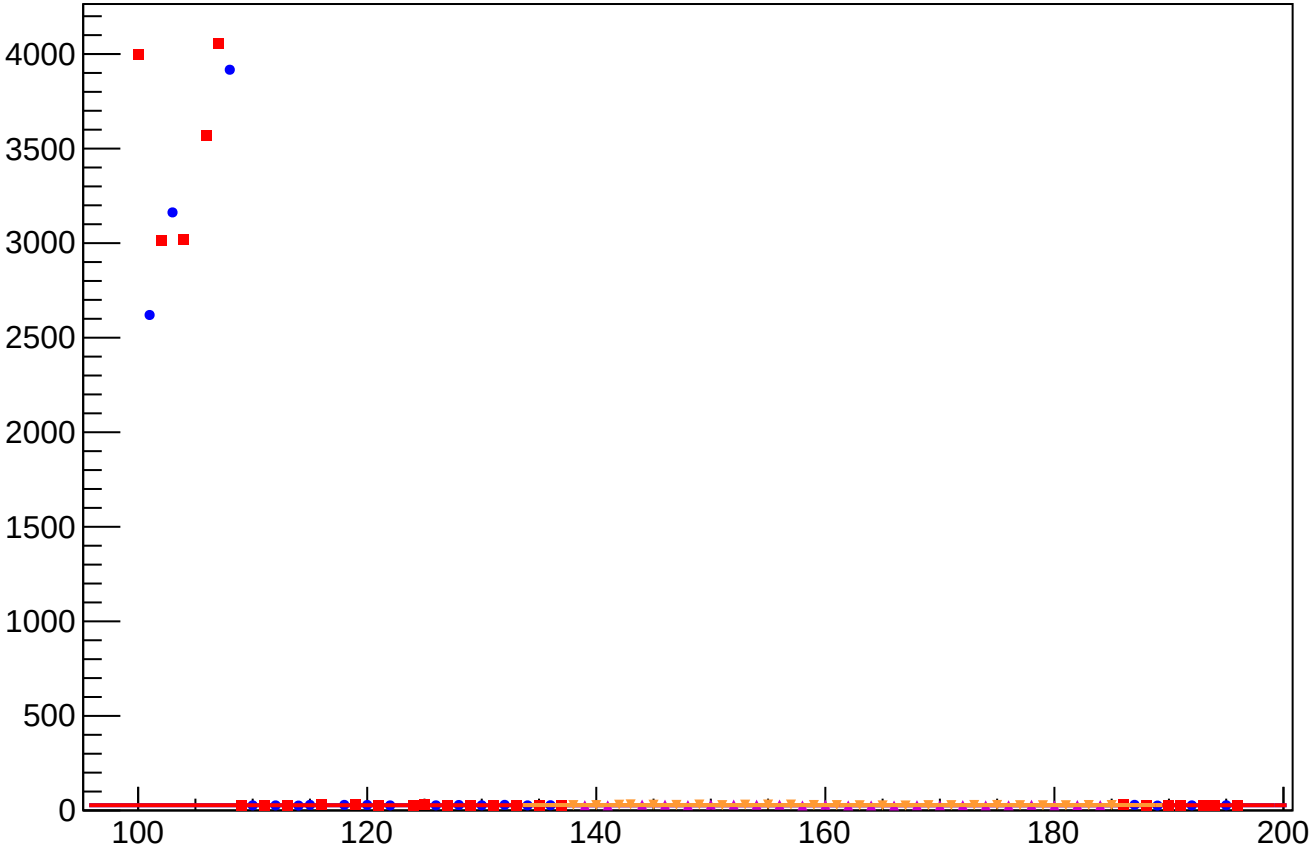
Right: 9.283+/-6.507 $\chi^2$/NDF: 46.6/45

In: 2.732+/-5.522 $\chi^2$/NDF:40.8/42

Out: -2.505+/-5.252 $\chi^2$/NDF:50.9/50

All: -0.017+/-3.805 $\chi^2$/NDF: 92.1/93

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 27.556+/-0.007 $\chi^2$/NDF: 3274766.4/19

Left Out: 28.707+/-0.005 $\chi^2$/NDF:98865.9/24

Right Out: 27.673+/-0.006 $\chi^2$/NDF: 3578052.5/25

Left In: 28.728+/-0.005 $\chi^2$/NDF:127383.0/22

Left: 28.717+/-0.003 $\chi^2$/NDF: 226258.3/47

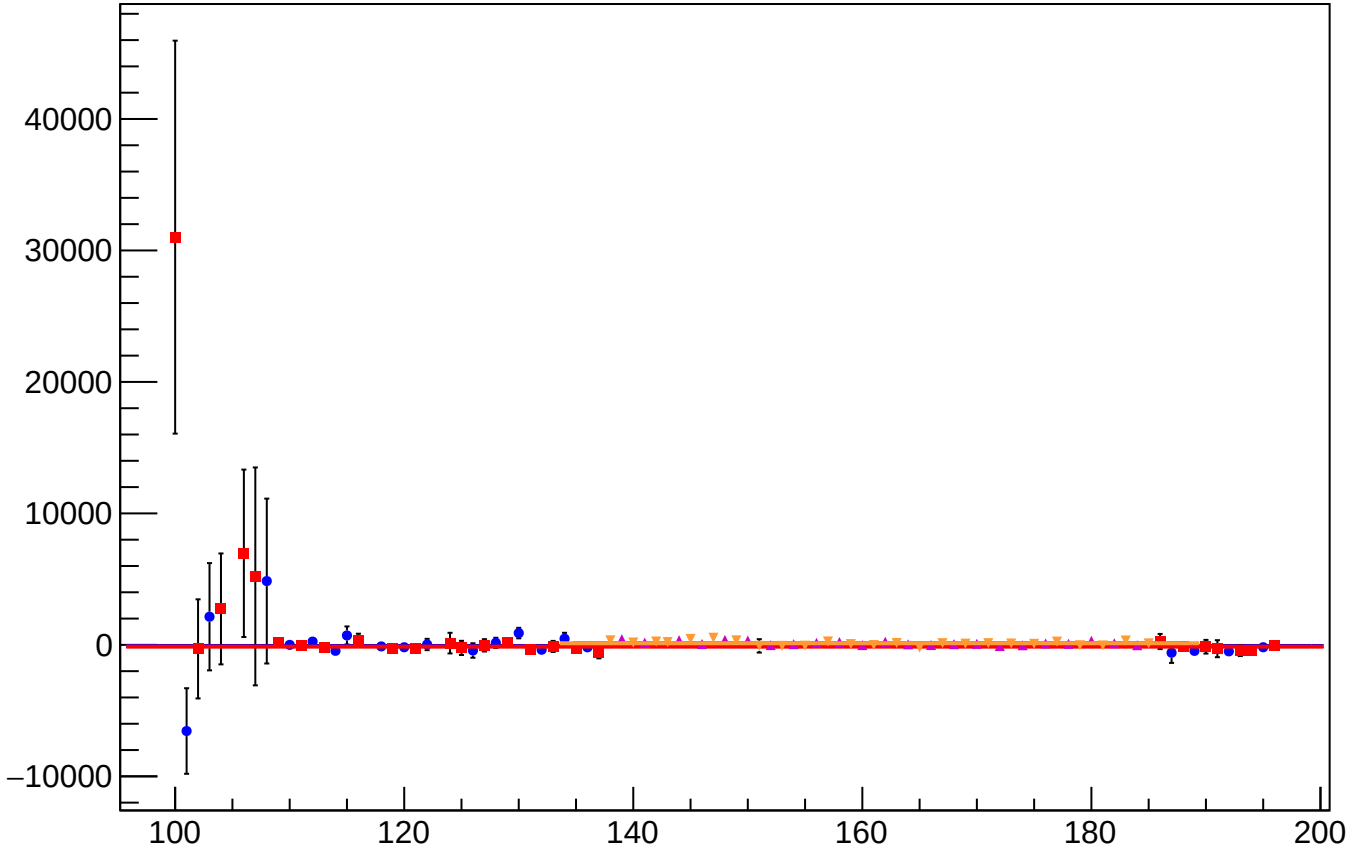
Right: 27.620+/-0.005 $\chi^2$/NDF: 6852978.6/45

In: 28.344+/-0.004 $\chi^2$/NDF:3421978.2/42

Out: 28.340+/-0.004 $\chi^2$/NDF:3694700.7/50

All: 28.342+/-0.003 $\chi^2$/NDF: 7116679.6/93

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs Slug, Sign Corrected




Right In: -84.686+/-71.118 $\chi^2$/NDF: 22.4/19

Left Out: 122.864+/-47.300 $\chi^2$/NDF:11.3/24

Right Out: -133.621+/-63.318 $\chi^2$/NDF: 17.3/25

Left In: 123.046+/-45.269 $\chi^2$/NDF:8.5/22

Left: 122.959+/-32.704 $\chi^2$/NDF: 19.8/47

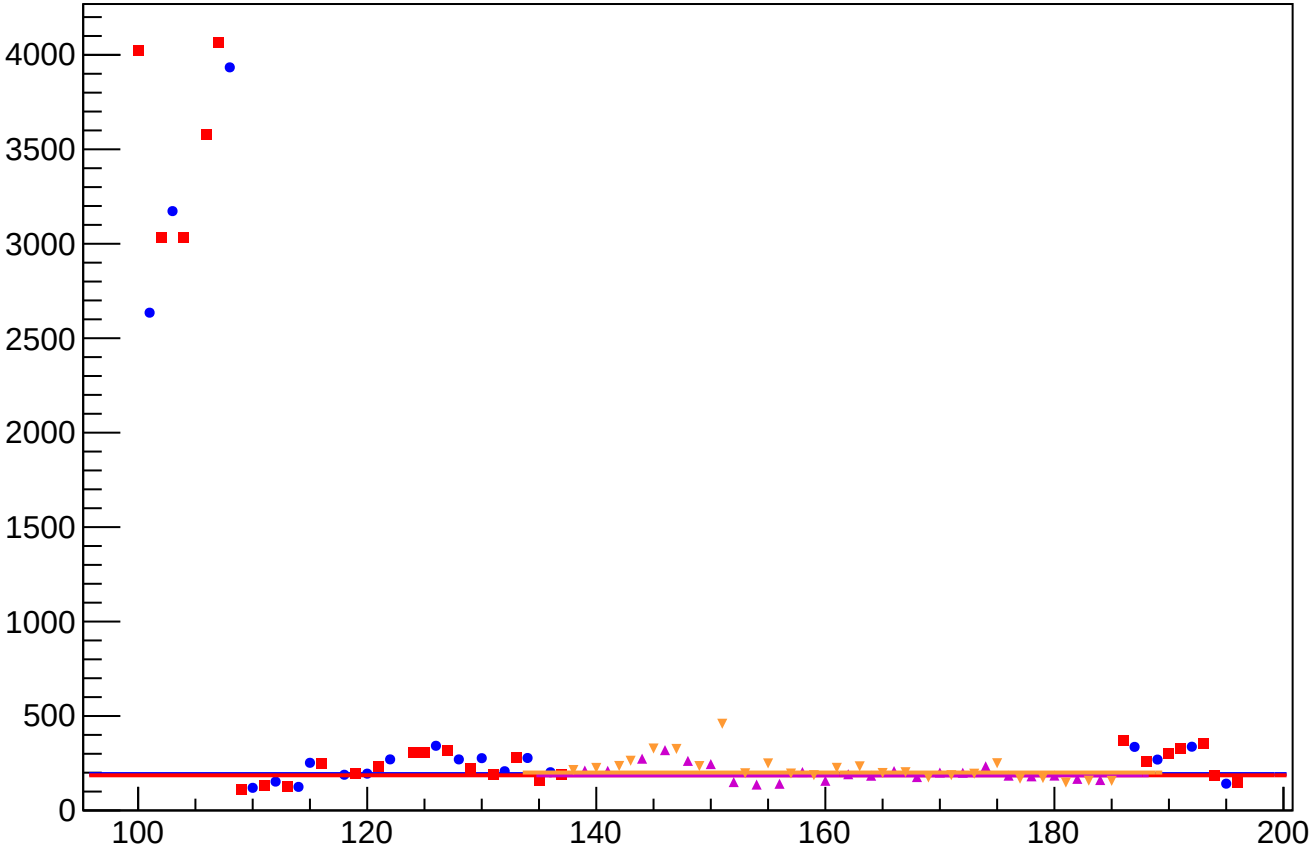
Right: -111.983+/-47.291 $\chi^2$/NDF: 40.0/45

In: 63.147+/-38.189 $\chi^2$/NDF:36.9/42

Out: 31.000+/-37.894 $\chi^2$/NDF:39.2/50

All: 46.949+/-26.899 $\chi^2$/NDF: 76.5/93

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs Slug, Sign Corrected




Right In: 192.579+/-0.050 $\chi^2$/NDF: 4520533.9/19

Left Out: 200.686+/-0.033 $\chi^2$/NDF:1880083.2/24

Right Out: 186.113+/-0.045 $\chi^2$/NDF: 5303781.2/25

Left In: 186.169+/-0.032 $\chi^2$/NDF:1413387.1/22

Left: 193.109+/-0.023 $\chi^2$/NDF: 3391793.2/47

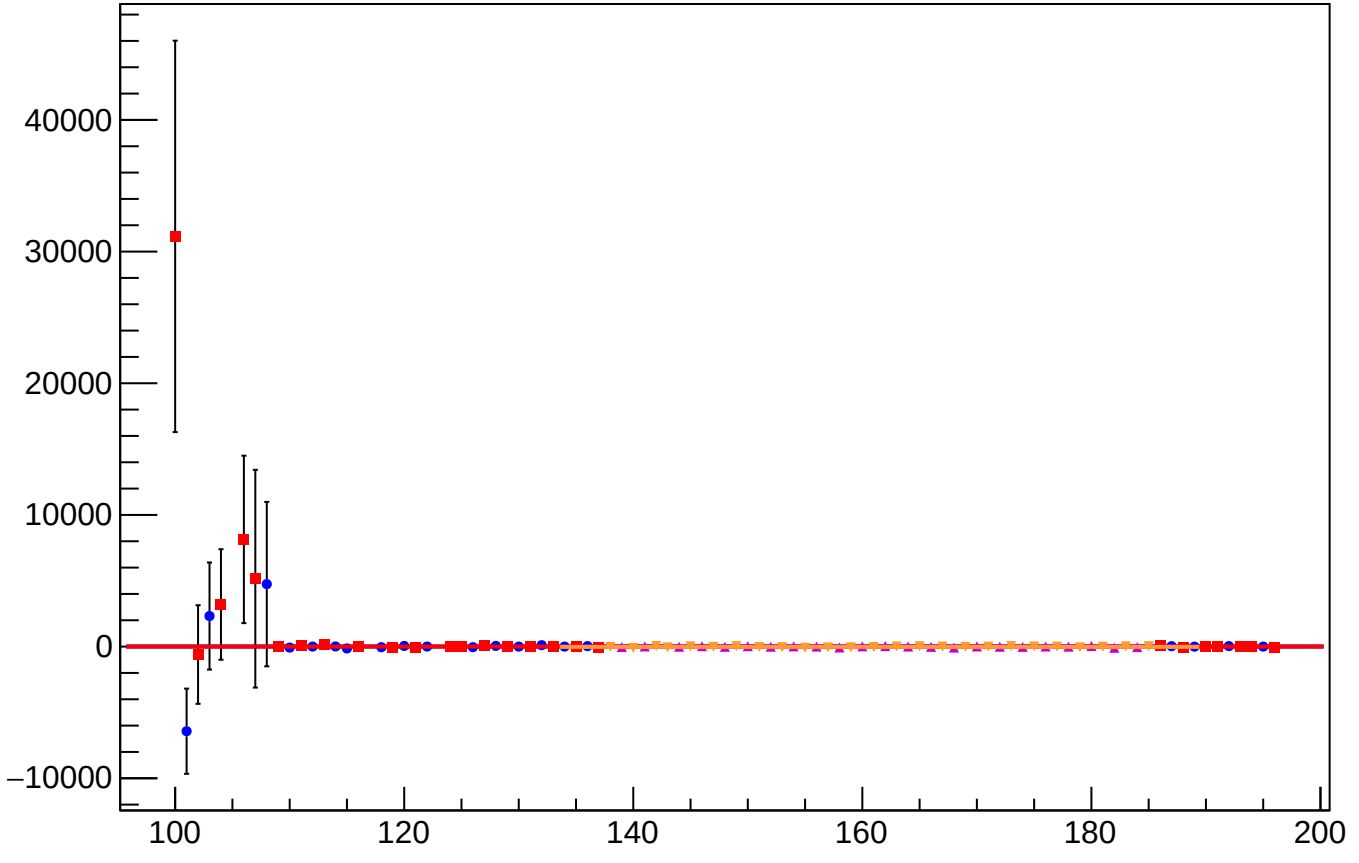
Right: 188.972+/-0.033 $\chi^2$/NDF: 9833537.6/45

In: 188.017+/-0.027 $\chi^2$/NDF:5945483.5/42

Out: 195.466+/-0.027 $\chi^2$/NDF:7251859.7/50

All: 191.771+/-0.019 $\chi^2$/NDF: 13235684.5/93

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs Slug, Sign Corrected




Right In: 8.942+/-11.765 $\chi^2$/NDF: 18.4/19

Left Out: -21.228+/-7.835 $\chi^2$/NDF:22.9/24

Right Out: 1.831+/-10.729 $\chi^2$/NDF: 28.9/25

Left In: -4.029+/-8.083 $\chi^2$/NDF:18.9/22

Left: -12.896+/-5.626 $\chi^2$/NDF: 44.2/47

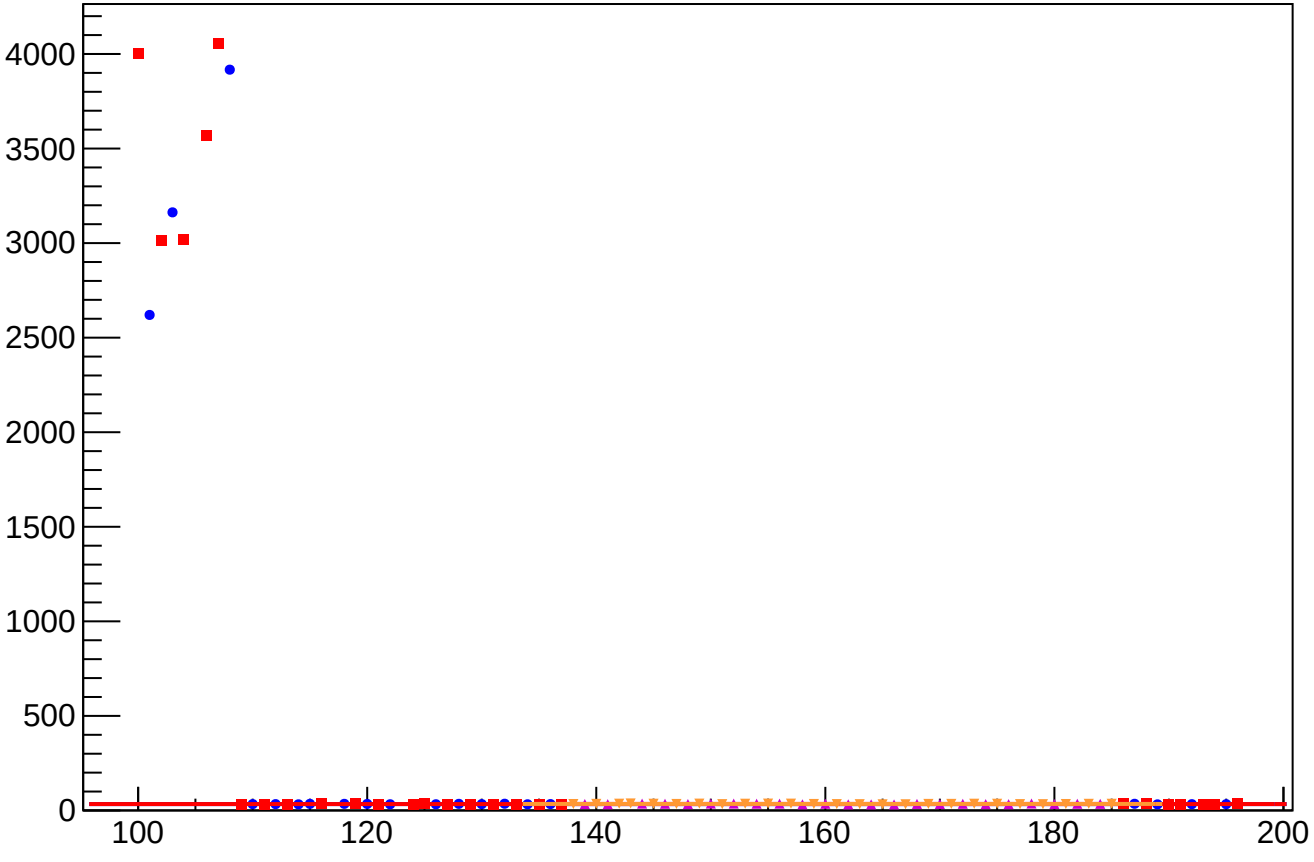
Right: 5.060+/-7.927 $\chi^2$/NDF: 47.5/45

In: 0.131+/-6.662 $\chi^2$/NDF:38.2/42

Out: -13.208+/-6.328 $\chi^2$/NDF:54.8/50

All: -6.882+/-4.588 $\chi^2$/NDF: 95.1/93

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs Slug, Sign Corrected




Right In: 33.640+/-0.008 $\chi^2$/NDF: 3248670.0/19

Left Out: 34.439+/-0.006 $\chi^2$/NDF:44686.3/24

Right Out: 33.763+/-0.008 $\chi^2$/NDF: 3537711.2/25

Left In: 34.552+/-0.006 $\chi^2$/NDF:59280.9/22

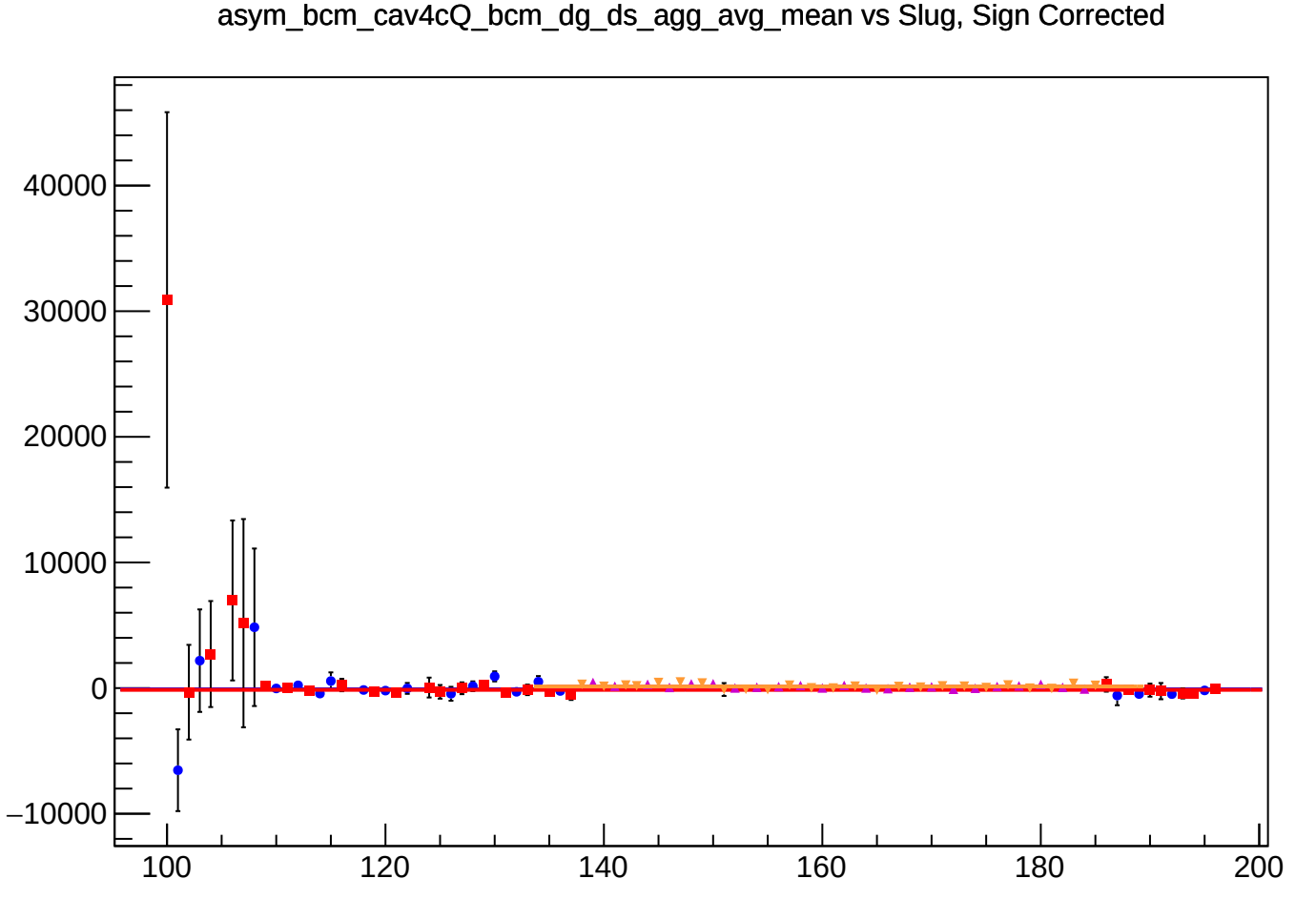
Left: 34.494+/-0.004 $\chi^2$/NDF: 104170.1/47

Right: 33.707+/-0.006 $\chi^2$/NDF: 6786500.3/45

In: 34.260+/-0.005 $\chi^2$/NDF:3316116.6/42

Out: 34.204+/-0.004 $\chi^2$/NDF:3587573.0/50

All: 34.230+/-0.003 $\chi^2$/NDF: 6903763.8/93




Right In: -96.470+/-70.854 $\chi^2$/NDF: 22.0/19

Left Out: 127.689+/-47.228 $\chi^2$/NDF:11.6/24

Right Out: -138.004+/-62.999 $\chi^2$/NDF: 16.6/25

Left In: 122.809+/-45.199 $\chi^2$/NDF:8.0/22

Left: 125.142+/-32.654 $\chi^2$/NDF: 19.6/47

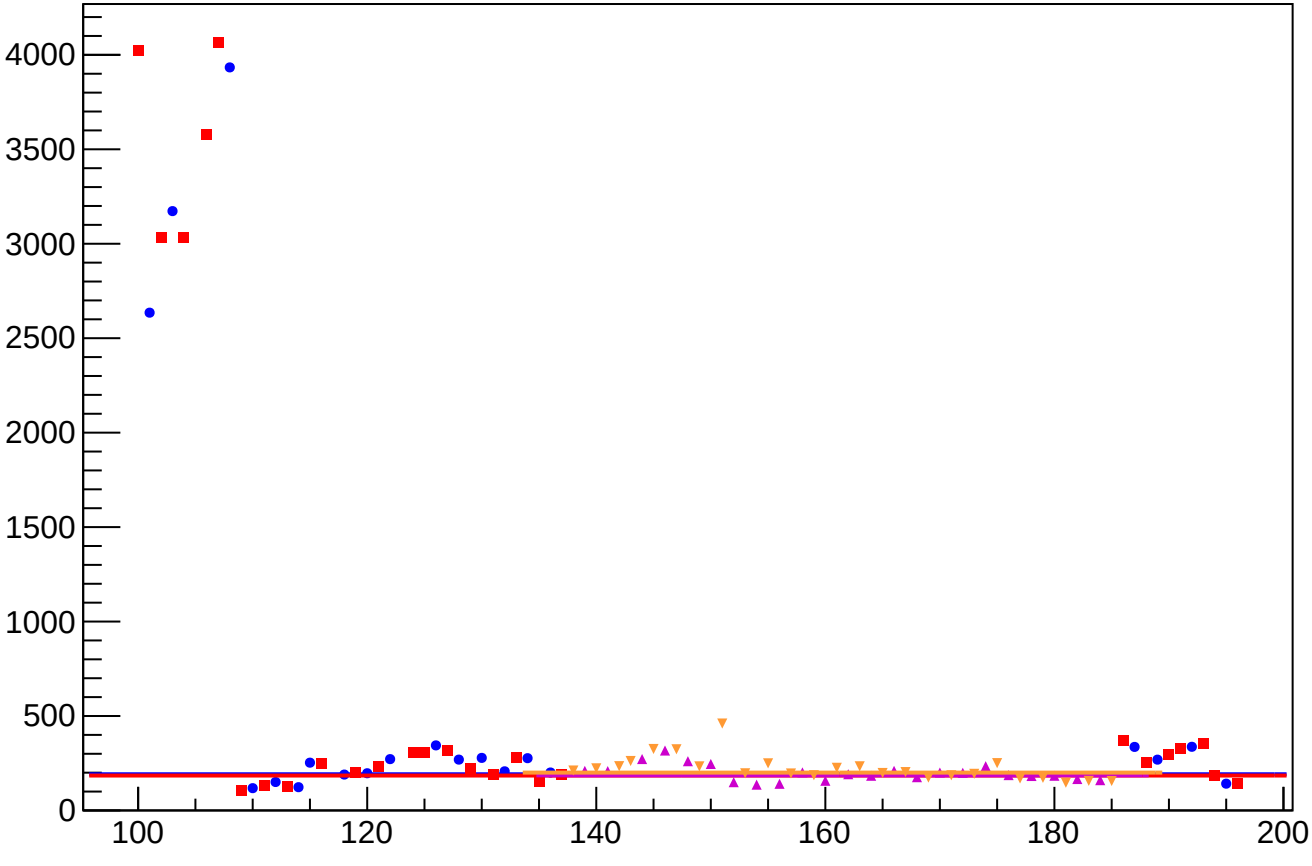
Right: -119.666+/-47.080 $\chi^2$/NDF: 38.8/45

In: 59.385+/-38.106 $\chi^2$/NDF:36.8/42

Out: 32.096+/-37.789 $\chi^2$/NDF:39.7/50

All: 45.626+/-26.832 $\chi^2$/NDF: 76.7/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs Slug, Sign Corrected




Right In: 191.618+/-0.050 $\chi^2$/NDF: 4555989.6/19

Left Out: 200.372+/-0.033 $\chi^2$/NDF:1876533.6/24

Right Out: 184.844+/-0.045 $\chi^2$/NDF: 5364596.4/25

Left In: 185.871+/-0.032 $\chi^2$/NDF:1405525.2/22

Left: 192.803+/-0.023 $\chi^2$/NDF: 3380466.3/47

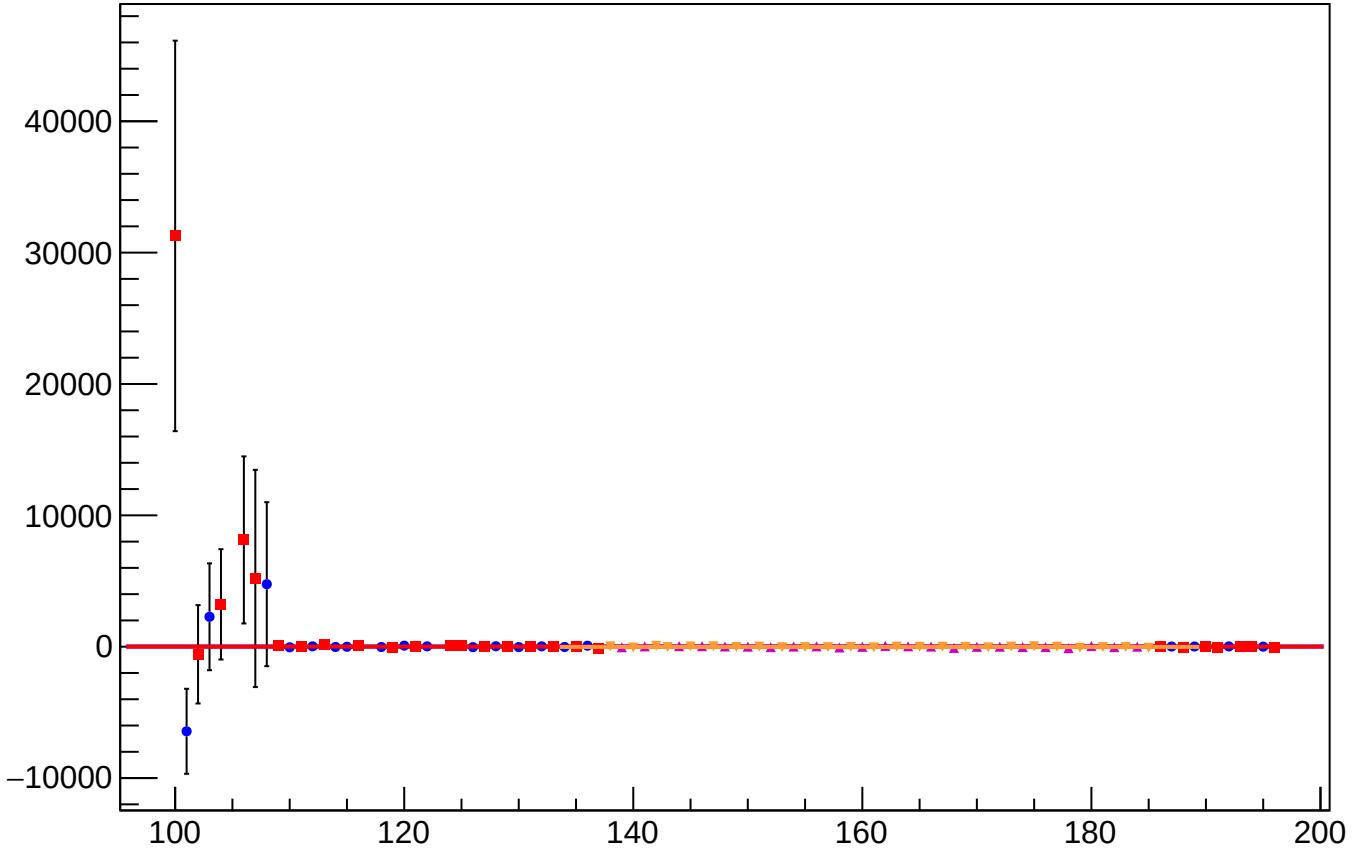
Right: 187.835+/-0.033 $\chi^2$/NDF: 9930796.4/45

In: 187.534+/-0.027 $\chi^2$/NDF:5970867.0/42

Out: 194.785+/-0.027 $\chi^2$/NDF:7318916.7/50

All: 191.190+/-0.019 $\chi^2$/NDF: 13326301.4/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs Slug, Sign Corrected




Right In: 13.738+/-10.688 $\chi^2$/NDF: 15.6/19

Left Out: -18.581+/-7.135 $\chi^2$/NDF:20.4/24

Right Out: 6.183+/-9.735 $\chi^2$/NDF: 35.4/25

Left In: -2.709+/-7.348 $\chi^2$/NDF:35.5/22

Left: -10.878+/-5.119 $\chi^2$/NDF: 58.3/47

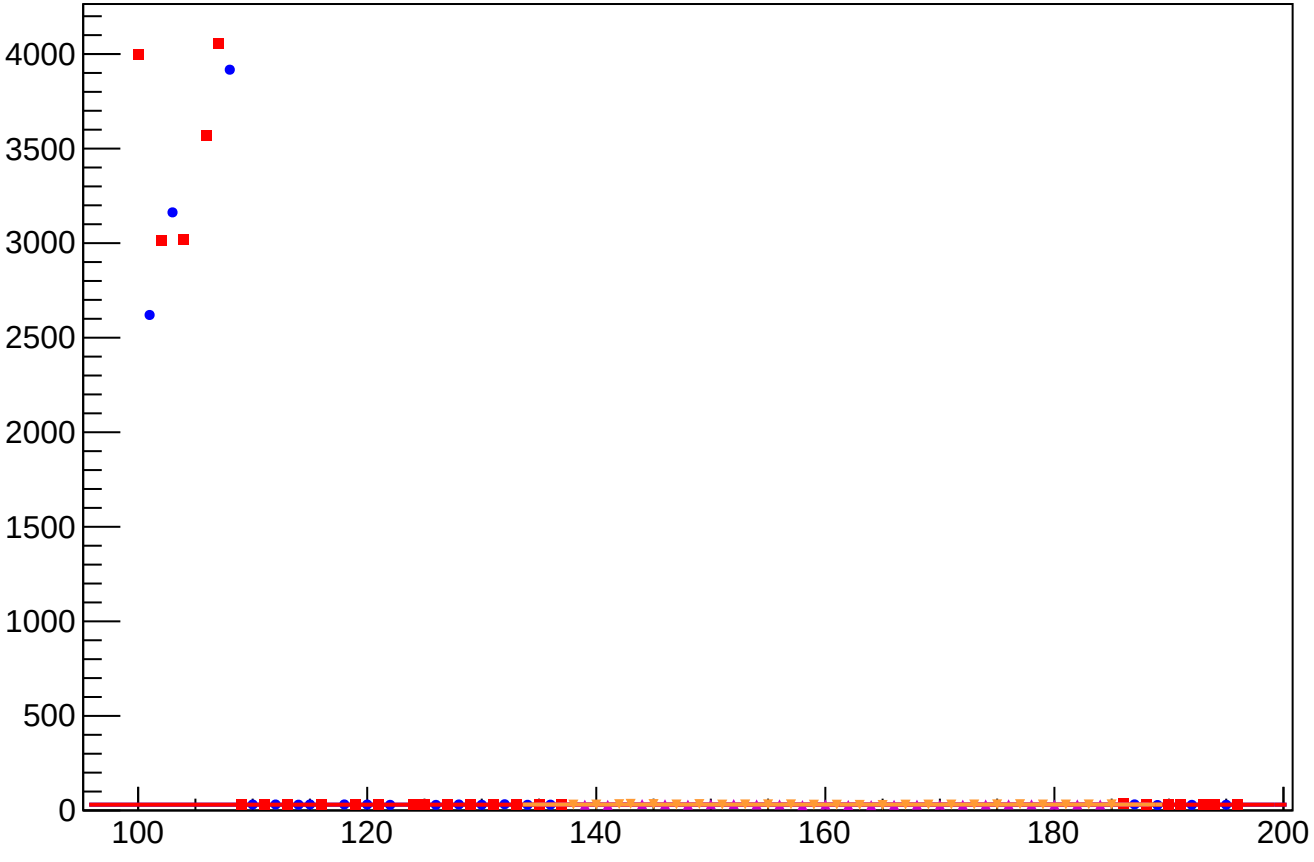
Right: 9.609+/-7.197 $\chi^2$/NDF: 51.3/45

In: 2.570+/-6.055 $\chi^2$/NDF:52.8/42

Out: -9.928+/-5.755 $\chi^2$/NDF:60.0/50

All: -3.996+/-4.171 $\chi^2$/NDF: 115.0/93

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs Slug, Sign Corrected




Right In: 30.536+/-0.008 $\chi^2$/NDF: 3261832.2/19

Left Out: 31.340+/-0.005 $\chi^2$/NDF:63017.9/24

Right Out: 30.606+/-0.007 $\chi^2$/NDF: 3553561.3/25

Left In: 31.379+/-0.005 $\chi^2$/NDF:85229.7/22

Left: 31.359+/-0.004 $\chi^2$/NDF: 148277.4/47

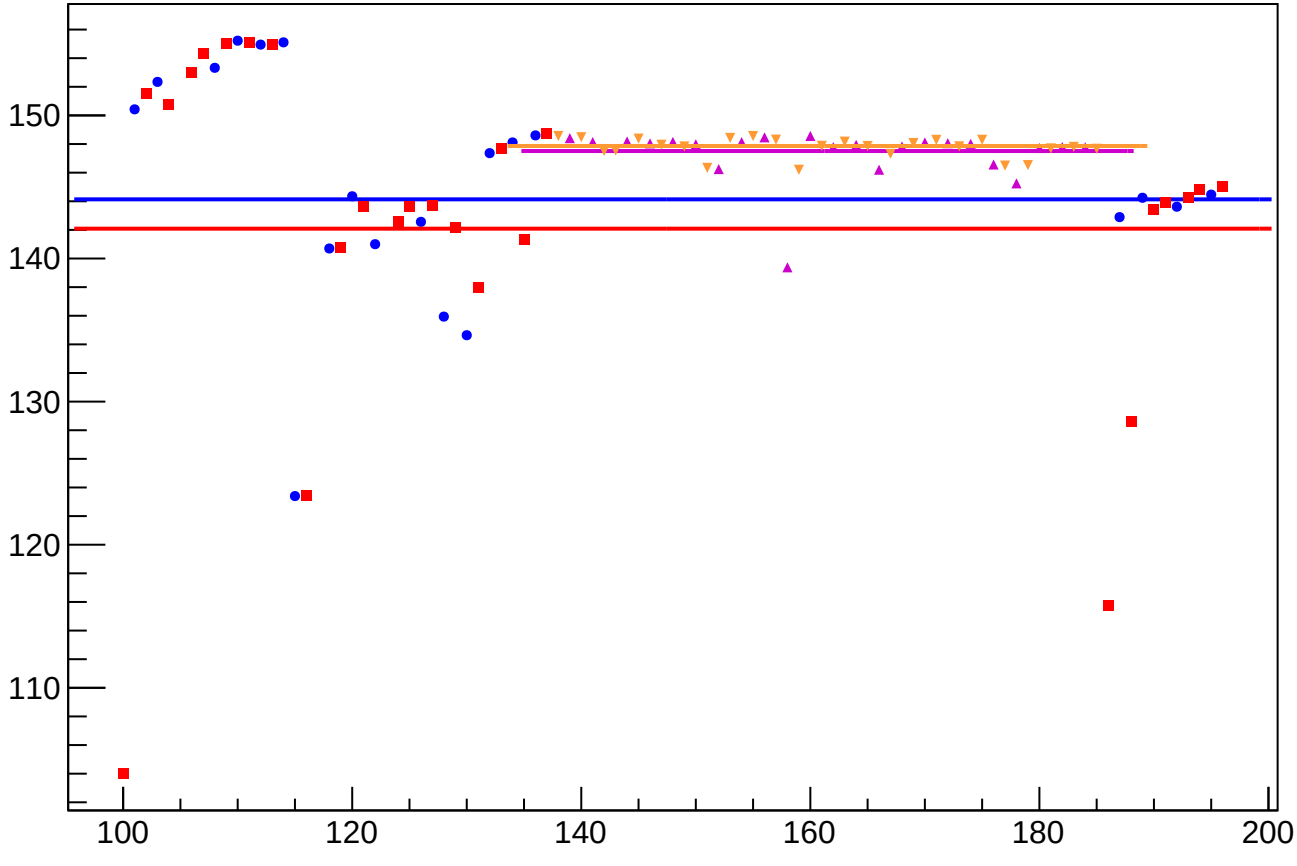
Right: 30.574+/-0.005 $\chi^2$/NDF: 6815439.4/45

In: 31.109+/-0.004 $\chi^2$/NDF:3355512.2/42

Out: 31.083+/-0.004 $\chi^2$/NDF:3623979.2/50

All: 31.095+/-0.003 $\chi^2$/NDF: 6979510.1/93

# yield_bcm_target_mean vs Slug, Sign Corrected




Right In: 144.135+/-0.000 $\chi^2$/NDF: 3727783759.3/19

Left Out: 147.864+/-0.000 $\chi^2$/NDF:44922014.2/24

Right Out: 142.086+/-0.000 $\chi^2$/NDF: 7476752113.6/25

Left In: 147.511+/-0.000 $\chi^2$/NDF:306421789.5/22

Left: 147.695+/-0.000 $\chi^2$/NDF: 357135734.4/47

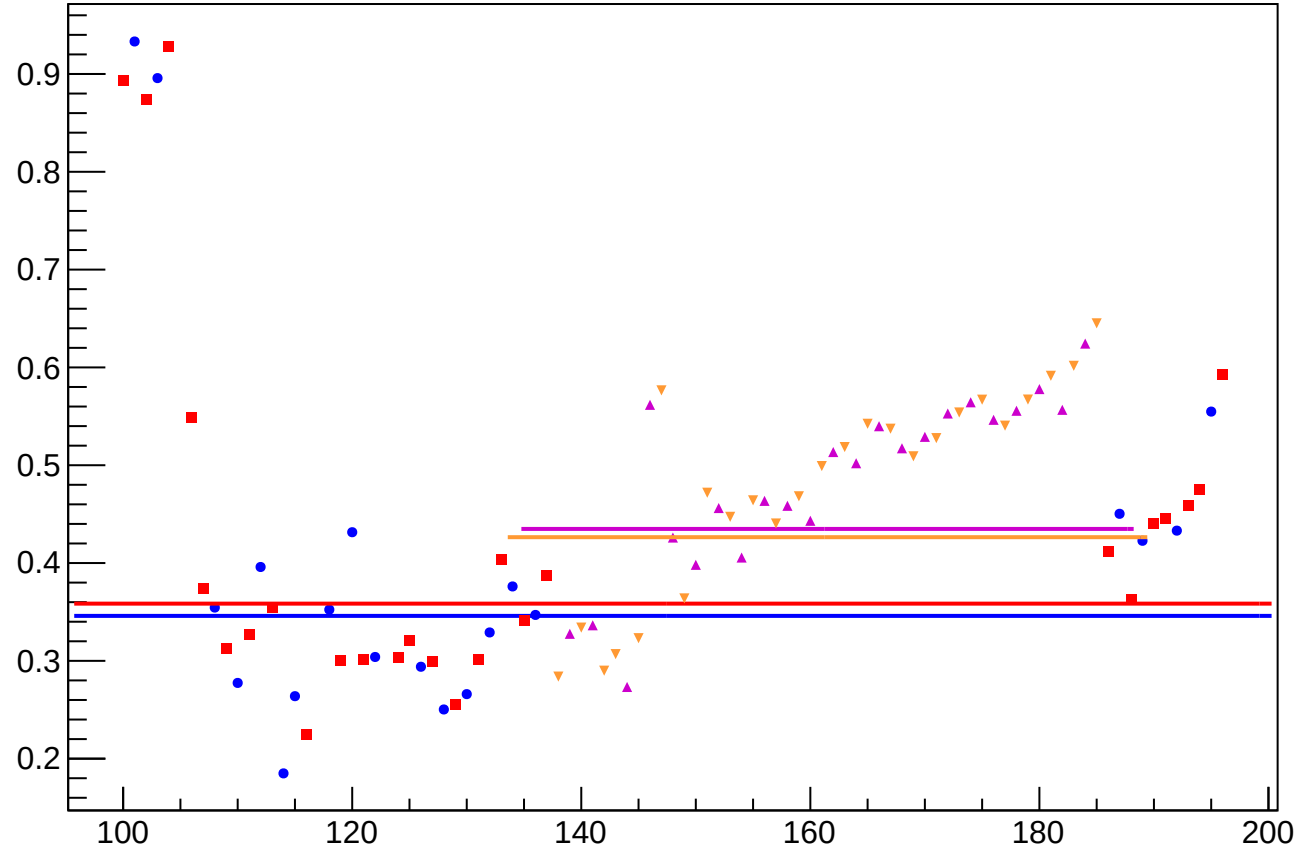
Right: 143.042+/-0.000 $\chi^2$/NDF: 11357581942.3/45

In: 146.046+/-0.000 $\chi^2$/NDF:4475344918.2/42

Out: 145.287+/-0.000 $\chi^2$/NDF:8966467800.7/50

All: 145.646+/-0.000 $\chi^2$/NDF: 13489636094.

# yield_bcm_target_rms vs Slug, Sign Corrected




Right In: 0.346+/-0.000 $\chi^2$/NDF: 1829409.2/19

Left Out: 0.426+/-0.000 $\chi^2$/NDF:2259192.5/24

Right Out: 0.358+/-0.000 $\chi^2$/NDF: 1862123.4/25

Left In: 0.435+/-0.000 $\chi^2$/NDF:1774903.7/22

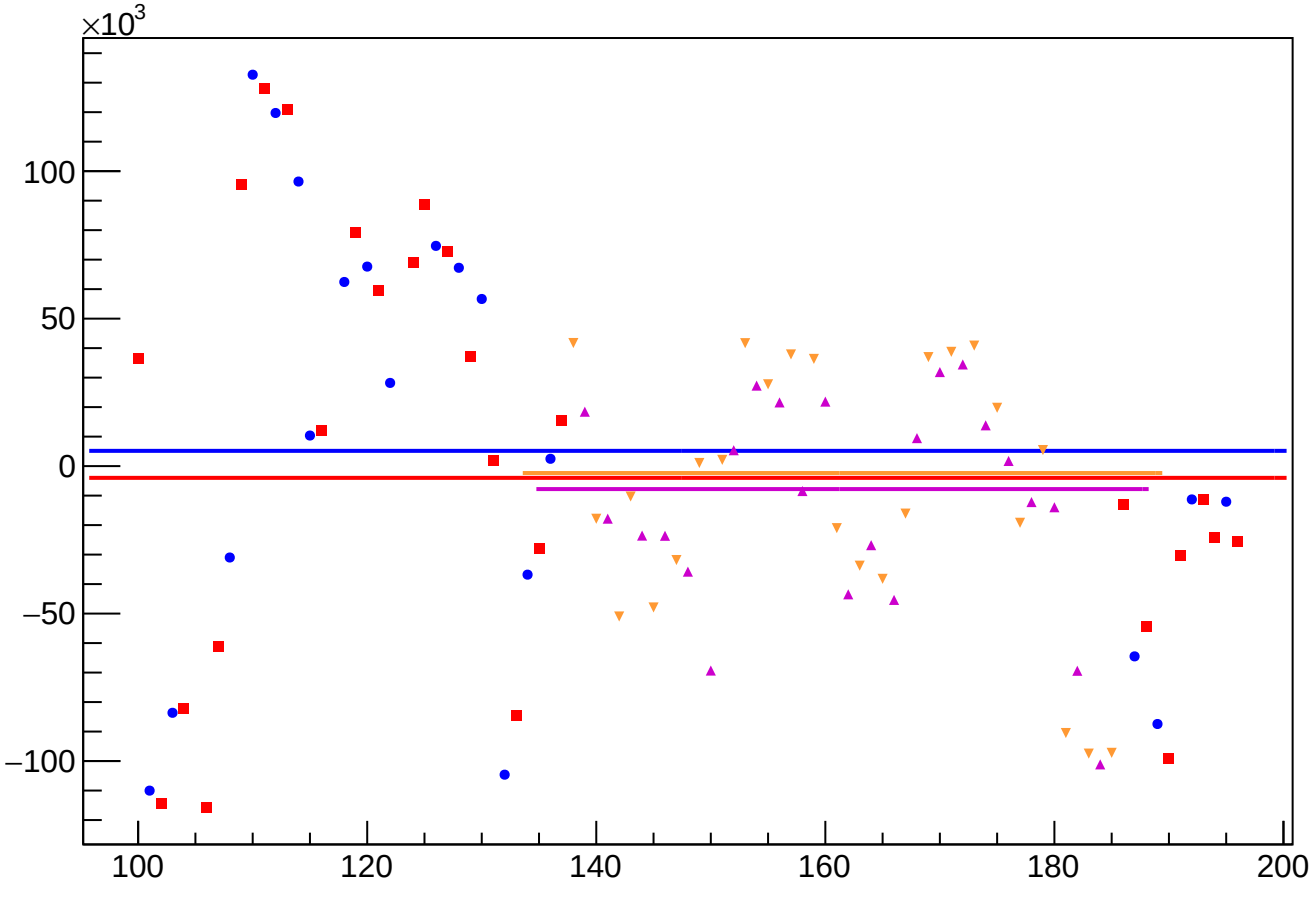
Left: 0.430+/-0.000 $\chi^2$/NDF: 4040738.3/47

Right: 0.353+/-0.000 $\chi^2$/NDF: 3702975.6/45

In: 0.396+/-0.000 $\chi^2$/NDF:4216182.3/42

Out: 0.396+/-0.000 $\chi^2$/NDF:4520713.7/50

All: 0.396+/-0.000 $\chi^2$/NDF: 8736901.1/93




Right In: 5172.093+/-1.726 $\chi^2$/NDF: 1632849873.2/19

Left Out: -2344.855+/-1.123 $\chi^2$/NDF:1230029339.6/24

Right Out: -3982.734+/-1.525 $\chi^2$/NDF: 2174643416.4/25

Left In: -7787.808+/-1.145 $\chi^2$/NDF:762496621.5/22

Left: -5015.253+/-0.802 $\chi^2$/NDF: 2004045886.0/47

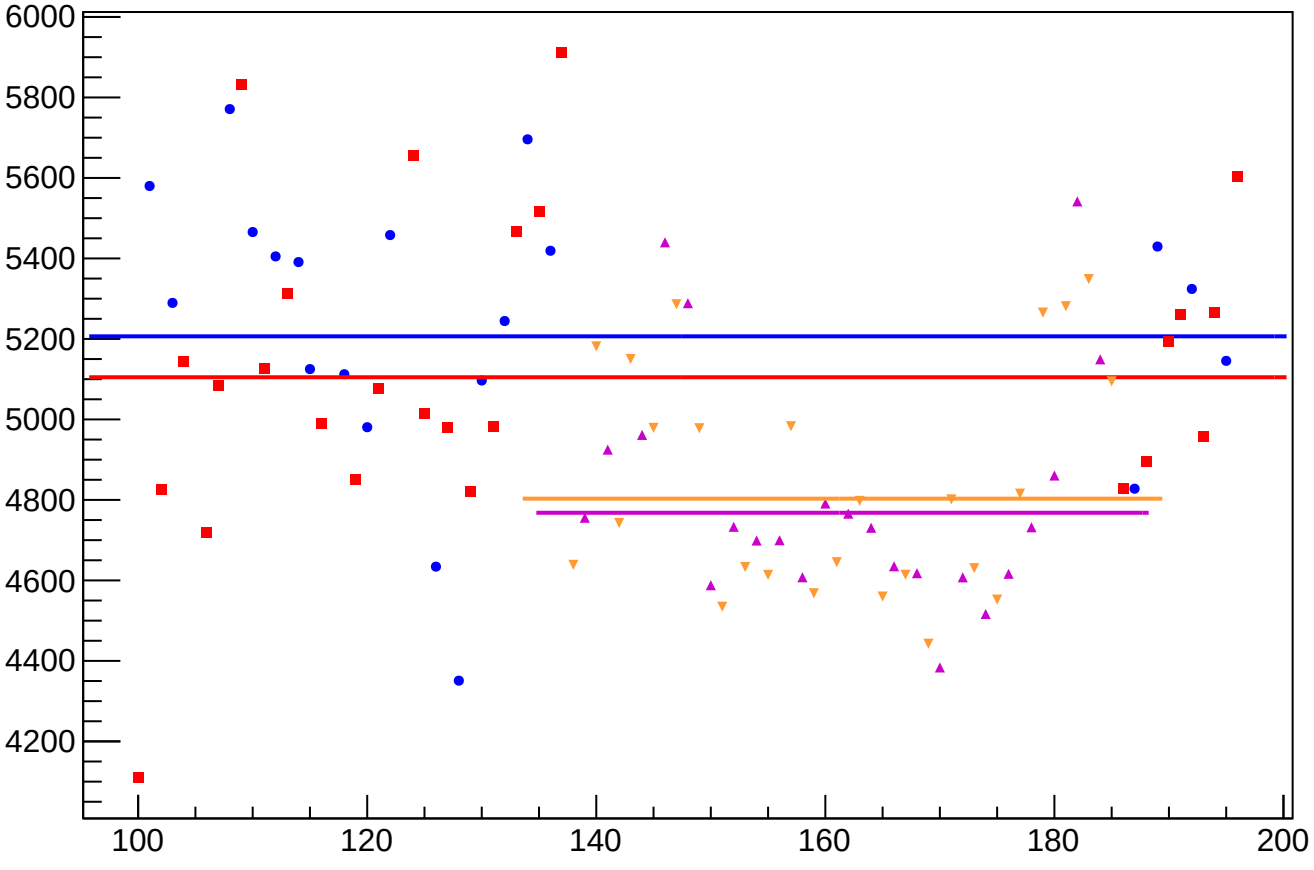
Right: 30.735+/-1.143 $\chi^2$/NDF: 3823294074.6/45

In: -3829.338+/-0.954 $\chi^2$/NDF:2434508411.6/42

Out: -2920.960+/-0.904 $\chi^2$/NDF:3405420619.4/50

All: -3350.980+/-0.656 $\chi^2$/NDF: 5840406608

# yield_bcm_an_diff_rms vs Slug, Sign Corrected




Right In: 5206.467+/-1.220 $\chi^2$/NDF: 82061.8/19

Left Out: 4803.136+/-0.794 $\chi^2$/NDF:114681.5/24

Right Out: 5104.794+/-1.078 $\chi^2$/NDF: 80742.4/25

Left In: 4768.055+/-0.809 $\chi^2$/NDF:102355.5/22

Left: 4785.925+/-0.567 $\chi^2$/NDF: 217994.1/47

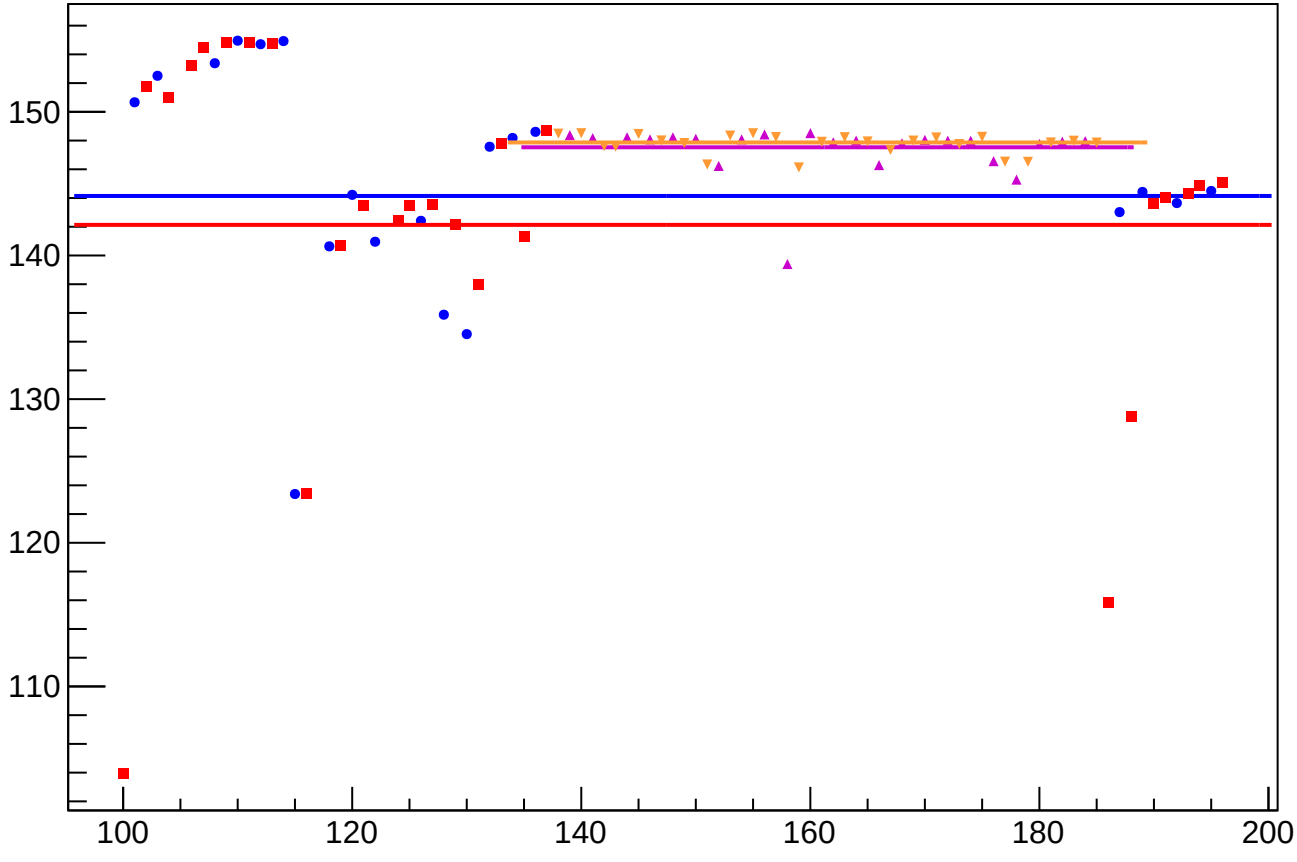
Right: 5149.367+/-0.808 $\chi^2$/NDF: 166702.0/45

In: 4901.964+/-0.674 $\chi^2$/NDF:274047.5/42

Out: 4909.241+/-0.640 $\chi^2$/NDF:246159.9/50

All: 4905.796+/-0.464 $\chi^2$/NDF: 520268.6/93

# yield_bcm_an_ds_mean vs Slug, Sign Corrected




Right In: 144.143+/-0.000 $\chi^2$/NDF: 3767707345.2/19

Left Out: 147.870+/-0.000 $\chi^2$/NDF:44483332.4/24

Right Out: 142.131+/-0.000 $\chi^2$/NDF: 7449216433.4/25

Left In: 147.532+/-0.000 $\chi^2$/NDF:307143604.6/22

Left: 147.708+/-0.000 $\chi^2$/NDF: 356985822.2/47

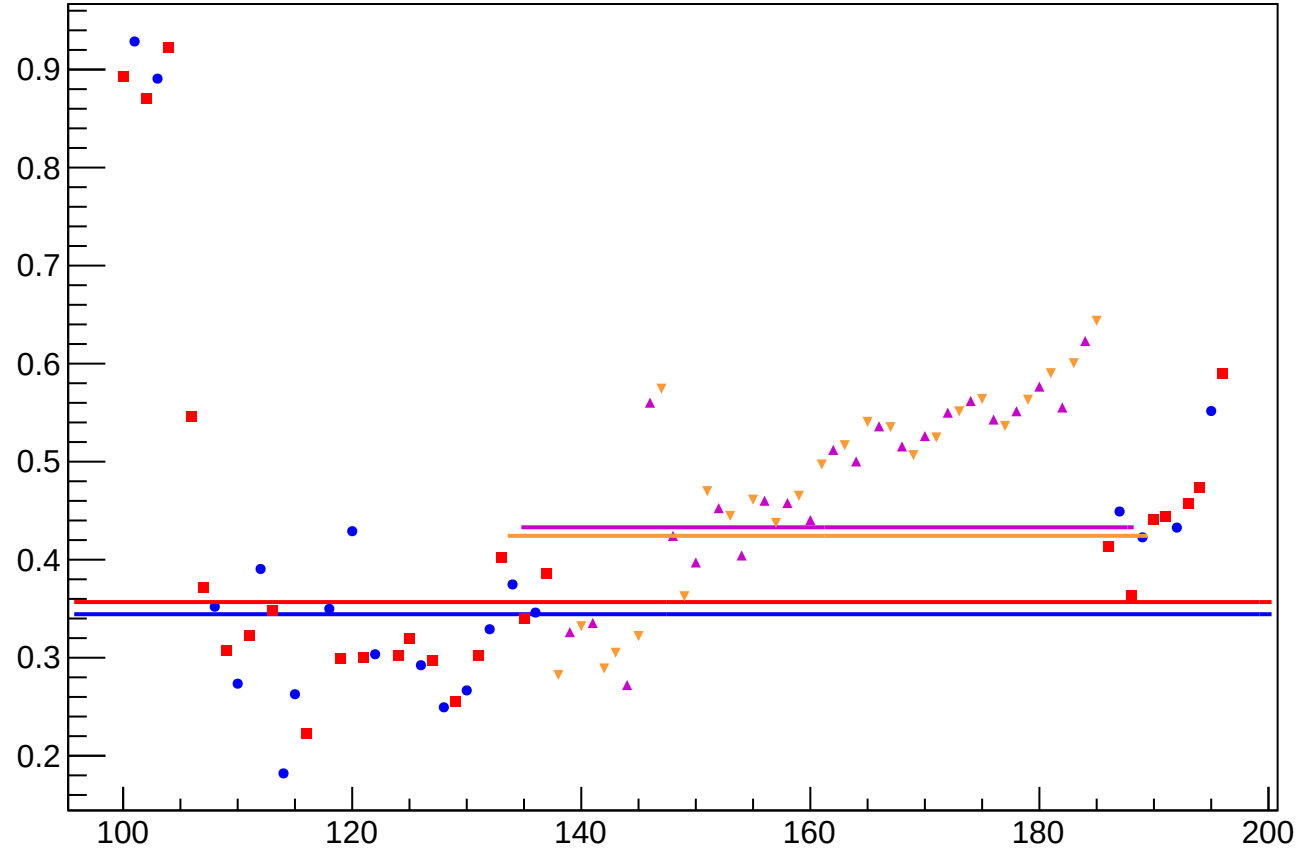
Right: 143.070+/-0.000 $\chi^2$/NDF: 11365975845.1/45

In: 146.061+/-0.000 $\chi^2$/NDF:4523127065.3/42

Out: 145.311+/-0.000 $\chi^2$/NDF:8932565279.8/50

All: 145.666+/-0.000 $\chi^2$/NDF: 13502810320.

# yield_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 0.344+/-0.000 $\chi^2$/NDF: 1833139.9/19

Left Out: 0.424+/-0.000 $\chi^2$/NDF:2260723.7/24

Right Out: 0.357+/-0.000 $\chi^2$/NDF: 1869074.1/25

Left In: 0.433+/-0.000 $\chi^2$/NDF:1771141.8/22

Left: 0.429+/-0.000 $\chi^2$/NDF: 4038947.9/47

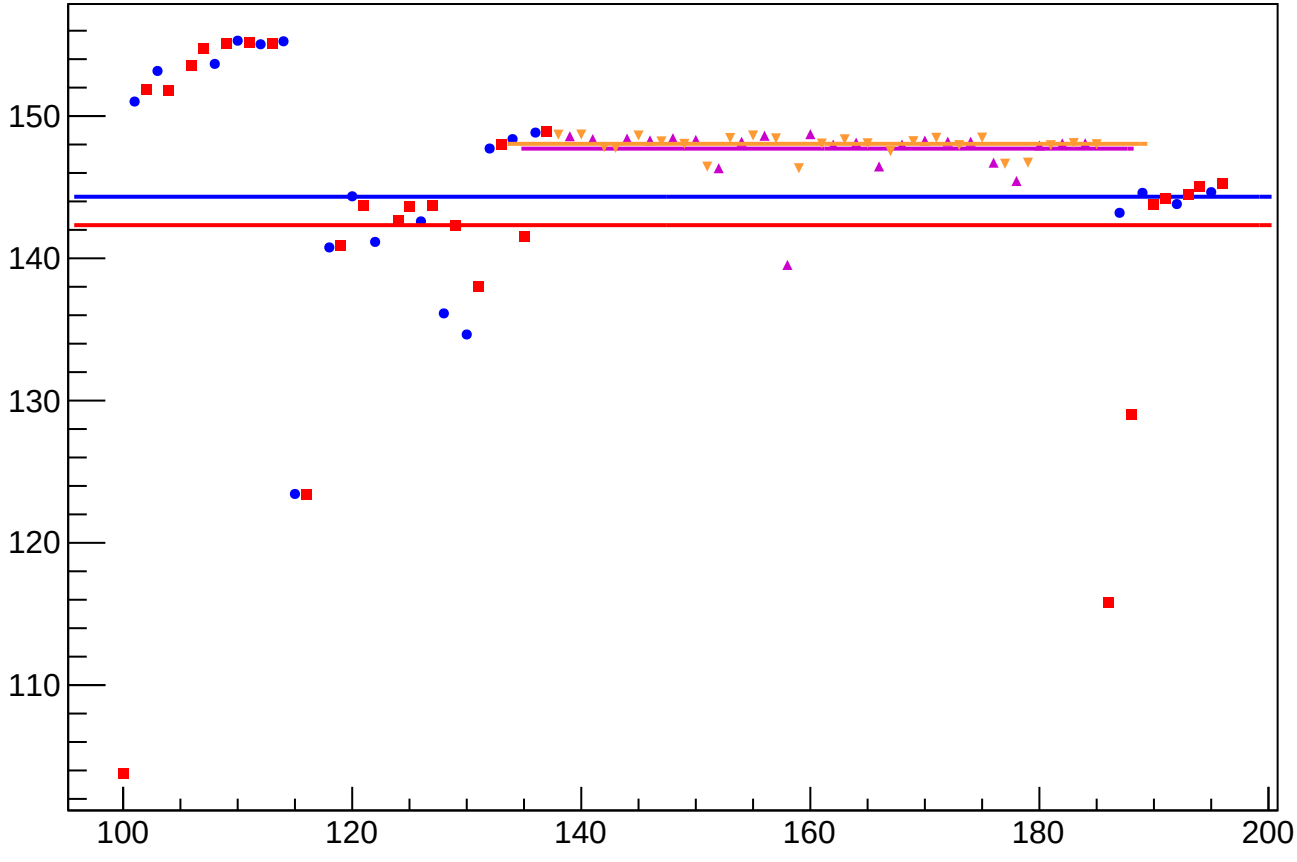
Right: 0.351+/-0.000 $\chi^2$/NDF: 3713498.0/45

In: 0.395+/-0.000 $\chi^2$/NDF:4218123.7/42

Out: 0.394+/-0.000 $\chi^2$/NDF:4528917.7/50

All: 0.394+/-0.000 $\chi^2$/NDF: 8747061.0/93

# yield_bcm_an_ds3_mean vs Slug, Sign Corrected




Right In: 144.329+/-0.000 $\chi^2$/NDF: 3761537874.7/19

Left Out: 148.049+/-0.000 $\chi^2$/NDF:44901895.1/24

Right Out: 142.332+/-0.000 $\chi^2$/NDF: 7385027395.2/25

Left In: 147.710+/-0.000 $\chi^2$/NDF:311841433.9/22

Left: 147.887+/-0.000 $\chi^2$/NDF: 362079380.3/47

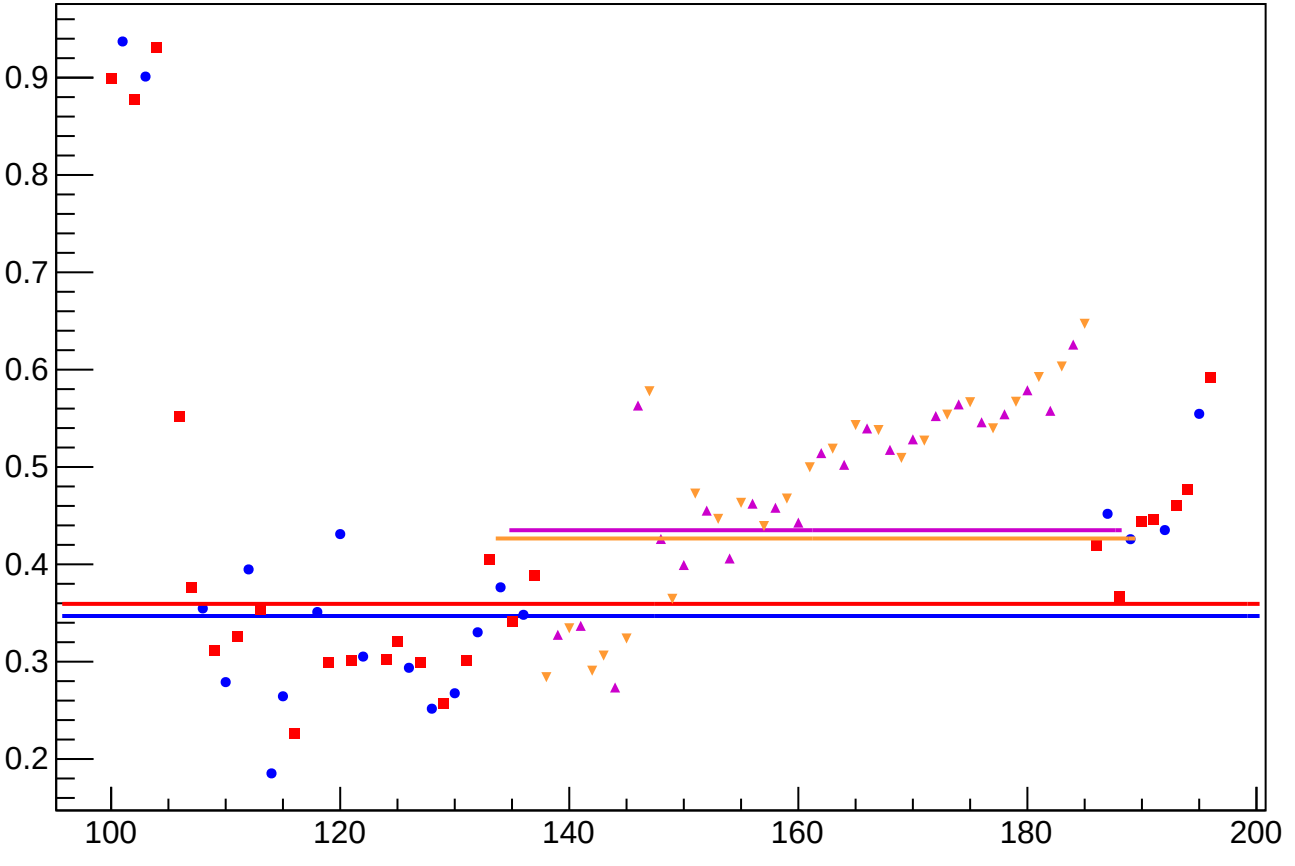
Right: 143.264+/-0.000 $\chi^2$/NDF: 11291249883.0/45

In: 146.247+/-0.000 $\chi^2$/NDF:4514557185.4/42

Out: 145.506+/-0.000 $\chi^2$/NDF:8840324830.9/50

All: 145.857+/-0.000 $\chi^2$/NDF: 13400290939.

# yield_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 0.347+/-0.000 $\chi^2$/NDF: 1826073.8/19

Left Out: 0.427+/-0.000 $\chi^2$/NDF:2257492.3/24

Right Out: 0.359+/-0.000 $\chi^2$/NDF: 1869260.6/25

Left In: 0.435+/-0.000 $\chi^2$/NDF:1769716.0/22

Left: 0.431+/-0.000 $\chi^2$/NDF: 4033919.8/47

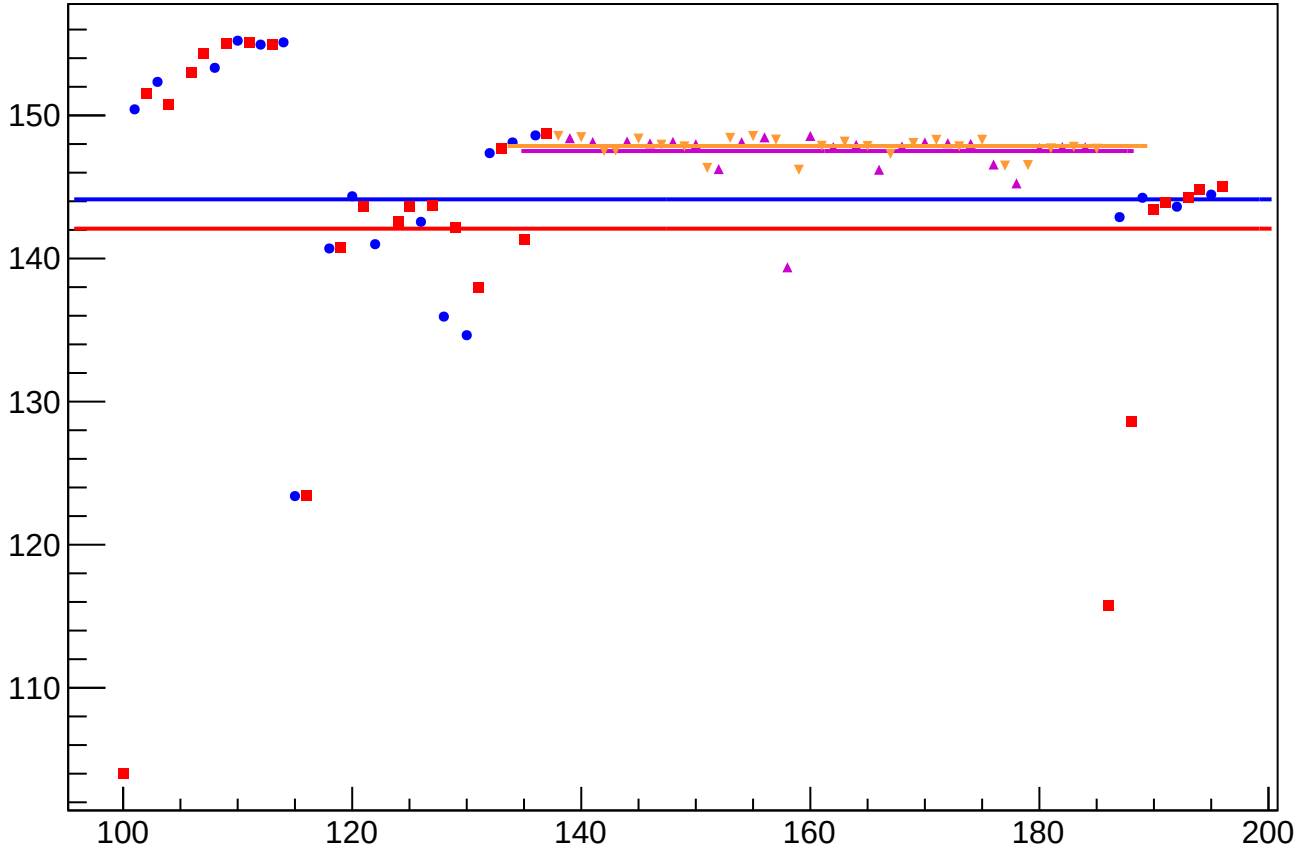
Right: 0.354+/-0.000 $\chi^2$/NDF: 3706595.2/45

In: 0.397+/-0.000 $\chi^2$/NDF:4195142.9/42

Out: 0.397+/-0.000 $\chi^2$/NDF:4516104.7/50

All: 0.397+/-0.000 $\chi^2$/NDF: 8711256.6/93

# yield_bcm_an_us_mean vs Slug, Sign Corrected




Right In: 144.135+/-0.000 $\chi^2$/NDF: 3727783759.3/19

Left Out: 147.864+/-0.000 $\chi^2$/NDF:44922014.2/24

Right Out: 142.086+/-0.000 $\chi^2$/NDF: 7476752113.6/25

Left In: 147.511+/-0.000 $\chi^2$/NDF:306421789.5/22

Left: 147.695+/-0.000 $\chi^2$/NDF: 357135734.4/47

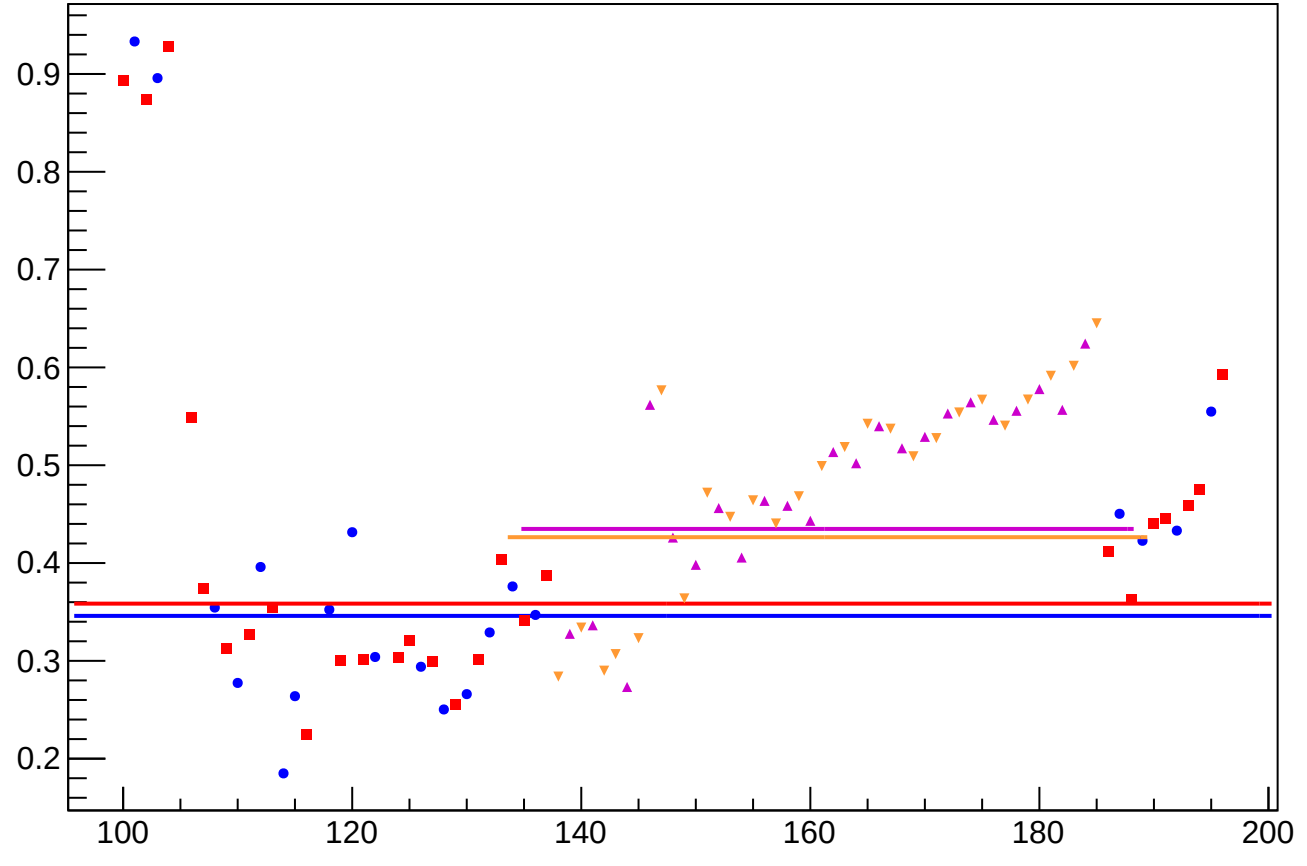
Right: 143.042+/-0.000 $\chi^2$/NDF: 11357581942.3/45

In: 146.046+/-0.000 $\chi^2$/NDF:4475344918.2/42

Out: 145.287+/-0.000 $\chi^2$/NDF:8966467800.7/50

All: 145.646+/-0.000 $\chi^2$/NDF: 13489636094.

# yield_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 0.346+/-0.000 $\chi^2$/NDF: 1829409.2/19

Left Out: 0.426+/-0.000 $\chi^2$/NDF:2259192.5/24

Right Out: 0.358+/-0.000 $\chi^2$/NDF: 1862123.4/25

Left In: 0.435+/-0.000 $\chi^2$/NDF:1774903.7/22

Left: 0.430+/-0.000 $\chi^2$/NDF: 4040738.3/47

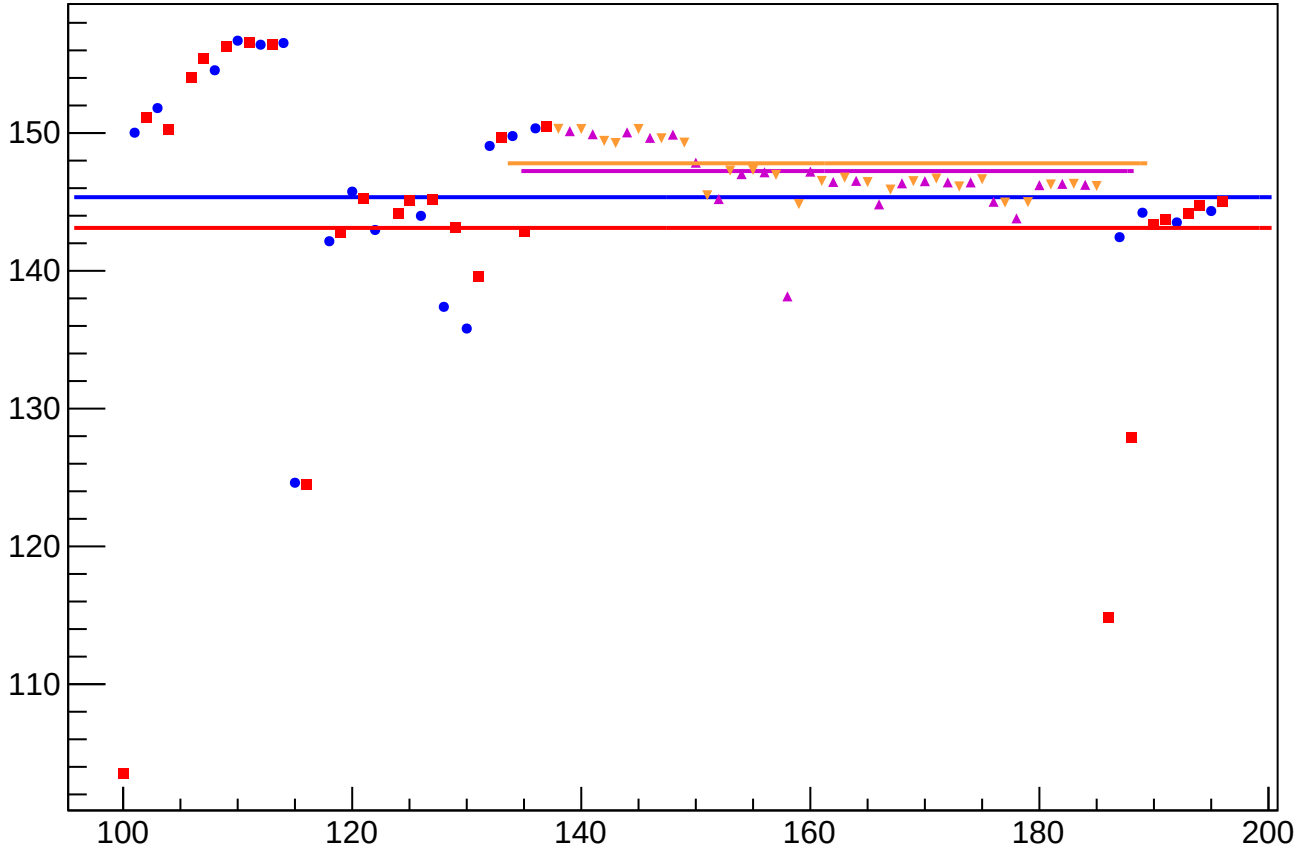
Right: 0.353+/-0.000 $\chi^2$/NDF: 3702975.6/45

In: 0.396+/-0.000 $\chi^2$/NDF:4216182.3/42

Out: 0.396+/-0.000 $\chi^2$/NDF:4520713.7/50

All: 0.396+/-0.000 $\chi^2$/NDF: 8736901.1/93

# yield_bcm_dg_us_mean vs Slug, Sign Corrected




Right In: 145.345+/-0.000 $\chi^2$/NDF: 3514802507.9/19

Left Out: 147.804+/-0.000 $\chi^2$/NDF:327059704.2/24

Right Out: 143.114+/-0.000 $\chi^2$/NDF: 7589802245.6/25

Left In: 147.241+/-0.000 $\chi^2$/NDF:618679483.9/22

Left: 147.533+/-0.000 $\chi^2$/NDF: 959733428.8/47

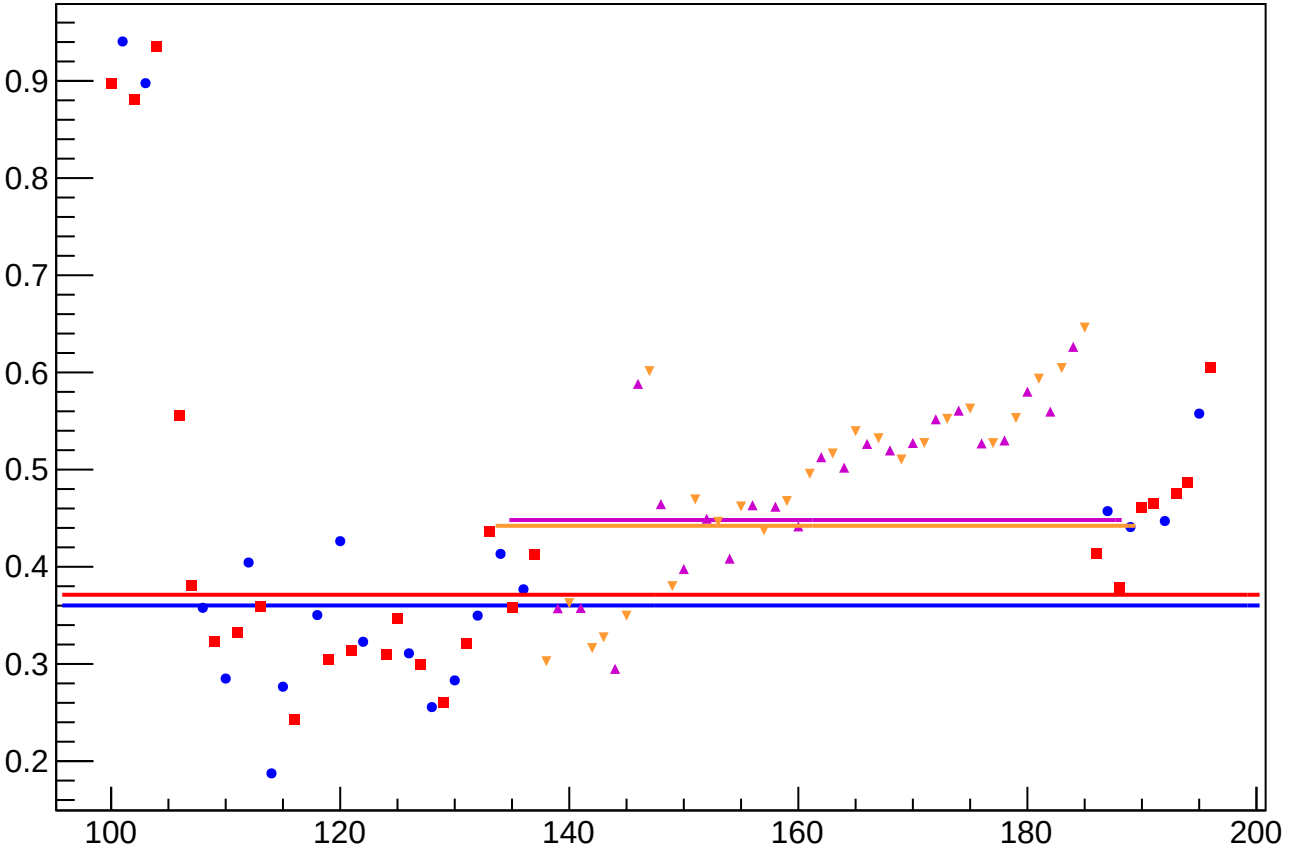
Right: 144.150+/-0.000 $\chi^2$/NDF: 11272800189.3/45

In: 146.433+/-0.000 $\chi^2$/NDF:4263701982.5/42

Out: 145.725+/-0.000 $\chi^2$/NDF:8808501704.7/50

All: 146.061+/-0.000 $\chi^2$/NDF: 13111245892.

# yield_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 0.360+/-0.000 $\chi^2$/NDF: 1763307.8/19

Left Out: 0.442+/-0.000 $\chi^2$/NDF:1704199.1/24

Right Out: 0.371+/-0.000 $\chi^2$/NDF: 1813165.6/25

Left In: 0.448+/-0.000 $\chi^2$/NDF:1347802.9/22

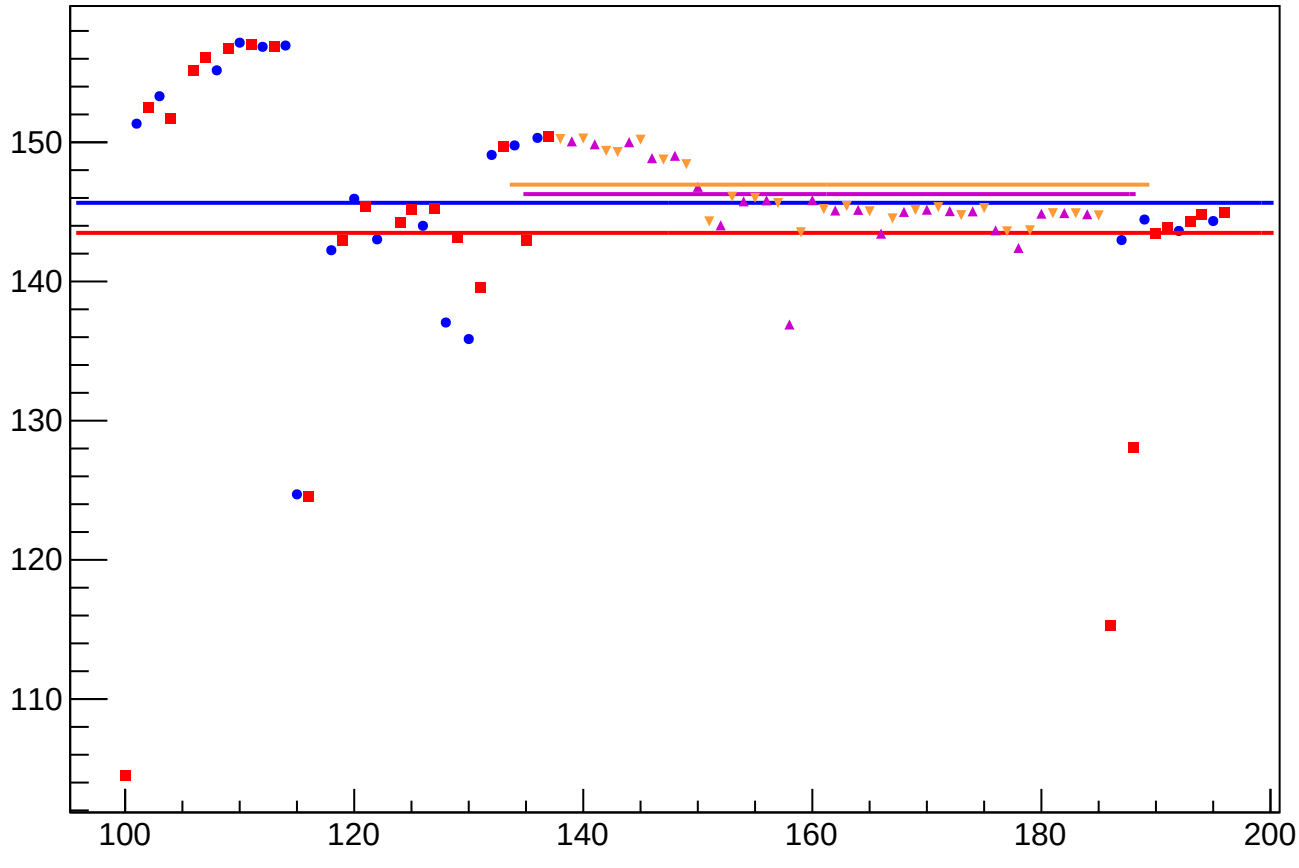
Left: 0.445+/-0.000 $\chi^2$/NDF: 3055136.8/47

Right: 0.366+/-0.000 $\chi^2$/NDF: 3584681.5/45

In: 0.411+/-0.000 $\chi^2$/NDF:3671456.8/42

Out: 0.411+/-0.000 $\chi^2$/NDF:3925627.3/50

All: 0.411+/-0.000 $\chi^2$/NDF: 7597084.4/93




Right In: 145.652+/-0.000 $\chi^2$/NDF: 3659388575.7/19

Left Out: 146.956+/-0.000 $\chi^2$/NDF:542800379.5/24

Right Out: 143.492+/-0.000 $\chi^2$/NDF: 7663980502.4/25

Left In: 146.278+/-0.000 $\chi^2$/NDF:825161532.5/22

Left: 146.630+/-0.000 $\chi^2$/NDF: 1388188459.0/47

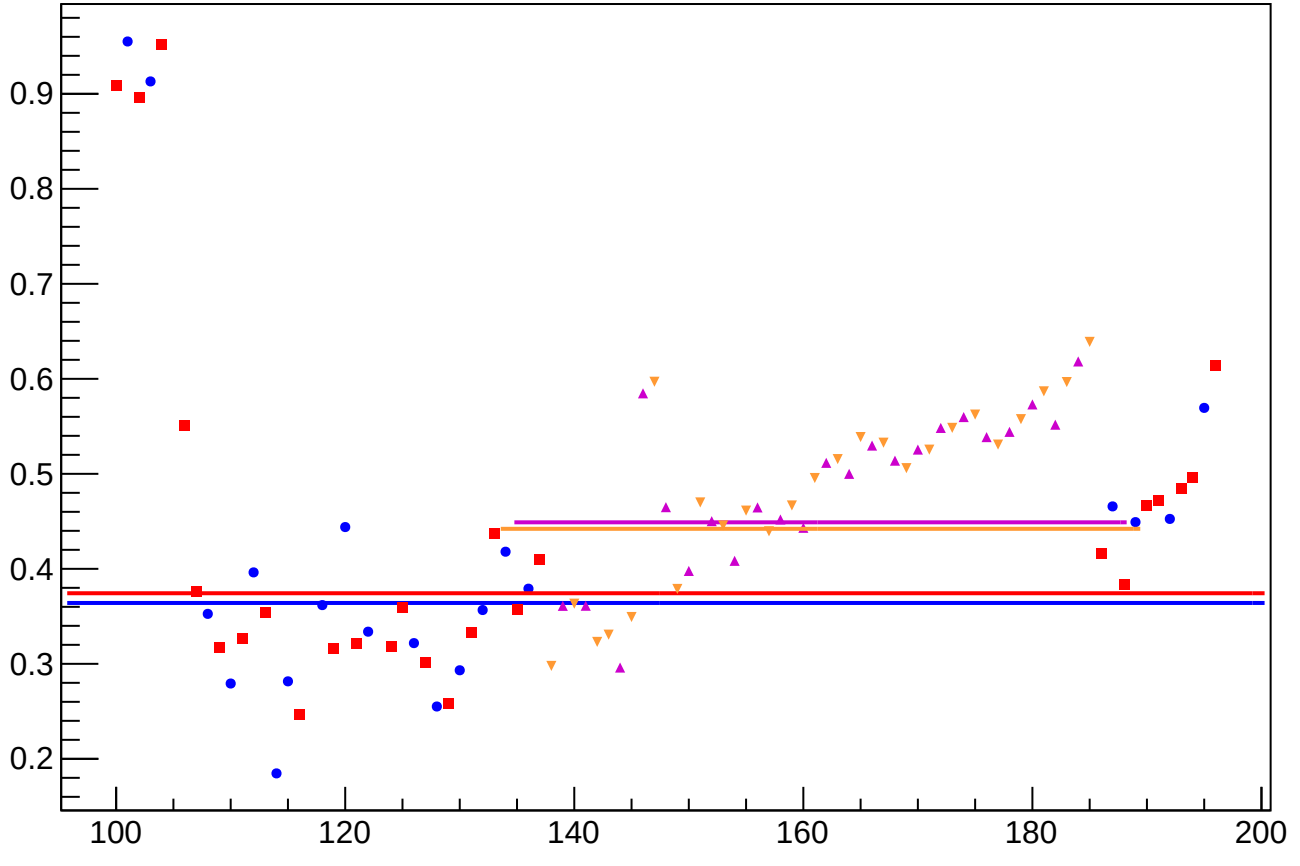
Right: 144.492+/-0.000 $\chi^2$/NDF: 11477487447.4/45

In: 146.015+/-0.000 $\chi^2$/NDF:4498509977.0/42

Out: 145.437+/-0.000 $\chi^2$/NDF:8687671733.5/50

All: 145.711+/-0.000 $\chi^2$/NDF: 13211860735.

# yield_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 0.364+/-0.000 $\chi^2$/NDF: 1798128.2/19

Left Out: 0.442+/-0.000 $\chi^2$/NDF:1676682.9/24

Right Out: 0.374+/-0.000 $\chi^2$/NDF: 1828739.2/25

Left In: 0.449+/-0.000 $\chi^2$/NDF:1300658.3/22

Left: 0.445+/-0.000 $\chi^2$/NDF: 2981452.0/47

Right: 0.370+/-0.000 $\chi^2$/NDF: 3633787.0/45

In: 0.413+/-0.000 $\chi^2$/NDF:3612487.4/42

Out: 0.412+/-0.000 $\chi^2$/NDF:3874127.2/50

All: 0.413+/-0.000 $\chi^2$/NDF: 7486731.7/93

# yield_cav4bQ_mean vs Slug, Sign Corrected

Right In: 872.504+/-0.000 $\chi^2$/NDF: 8847187904212.8/19

Left Out: 157.566+/-0.000 $\chi^2$/NDF:104641292.0/24

Right Out: 872.030+/-0.000 $\chi^2$/NDF: 13074132335596.2/25

Left In: 157.013+/-0.000 $\chi^2$/NDF:239819941.9/22

Left: 157.295+/-0.000 $\chi^2$/NDF: 349528490.6/47

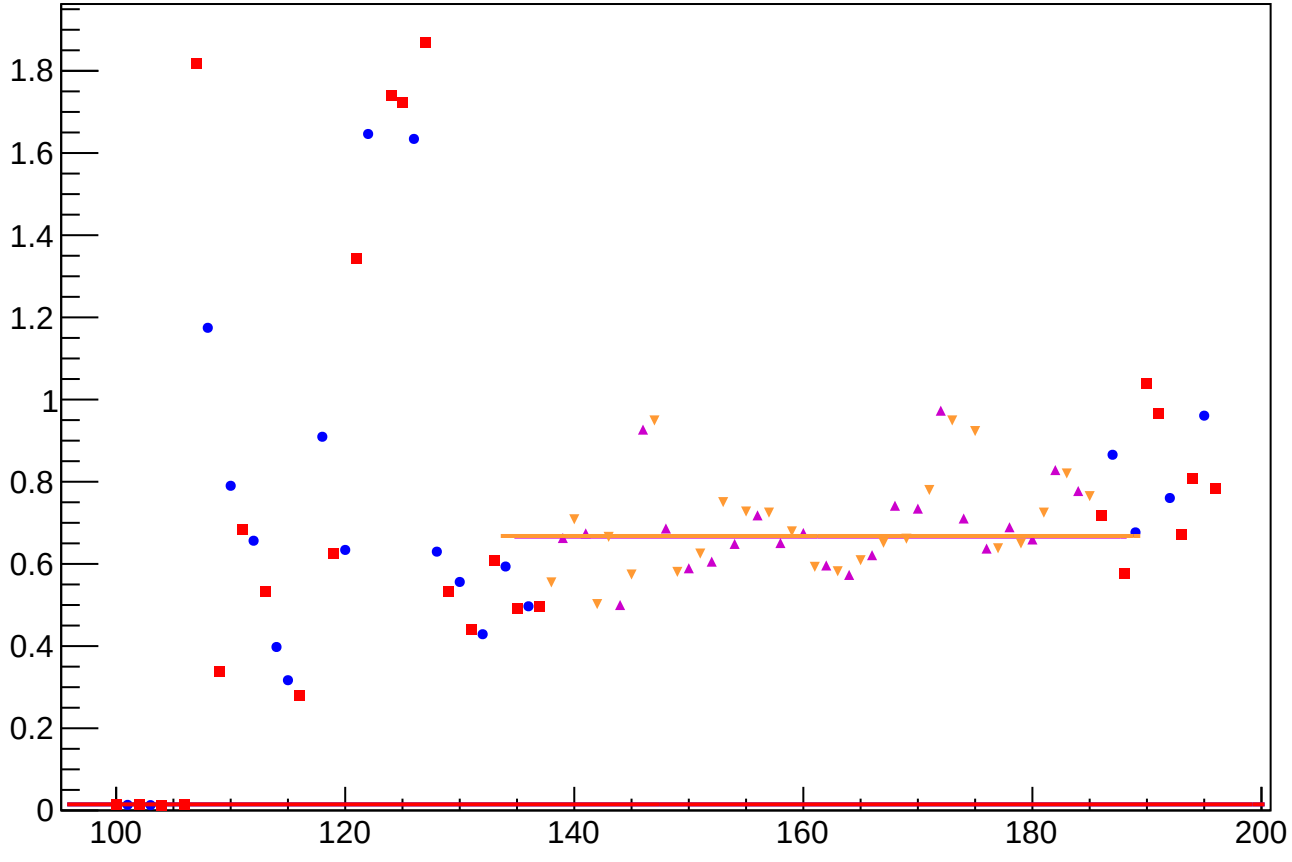
Right: 872.250+/-0.000 $\chi^2$/NDF: 21922175235530.

In: 869.265+/-0.000 $\chi^2$/NDF:25363242632083.9/

Out: 869.096+/-0.000 $\chi^2$/NDF:30297921200767.5

All: 869.175+/-0.000 $\chi^2$/NDF: 556612732537

# yield_cav4bQ_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 13474792.7/19

Left Out: 0.668+/-0.000 $\chi^2$/NDF:681720.2/24

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 16382044.0/25

Left In: 0.666+/-0.000 $\chi^2$/NDF:536078.9/22

Left: 0.667+/-0.000 $\chi^2$/NDF: 1217874.8/47

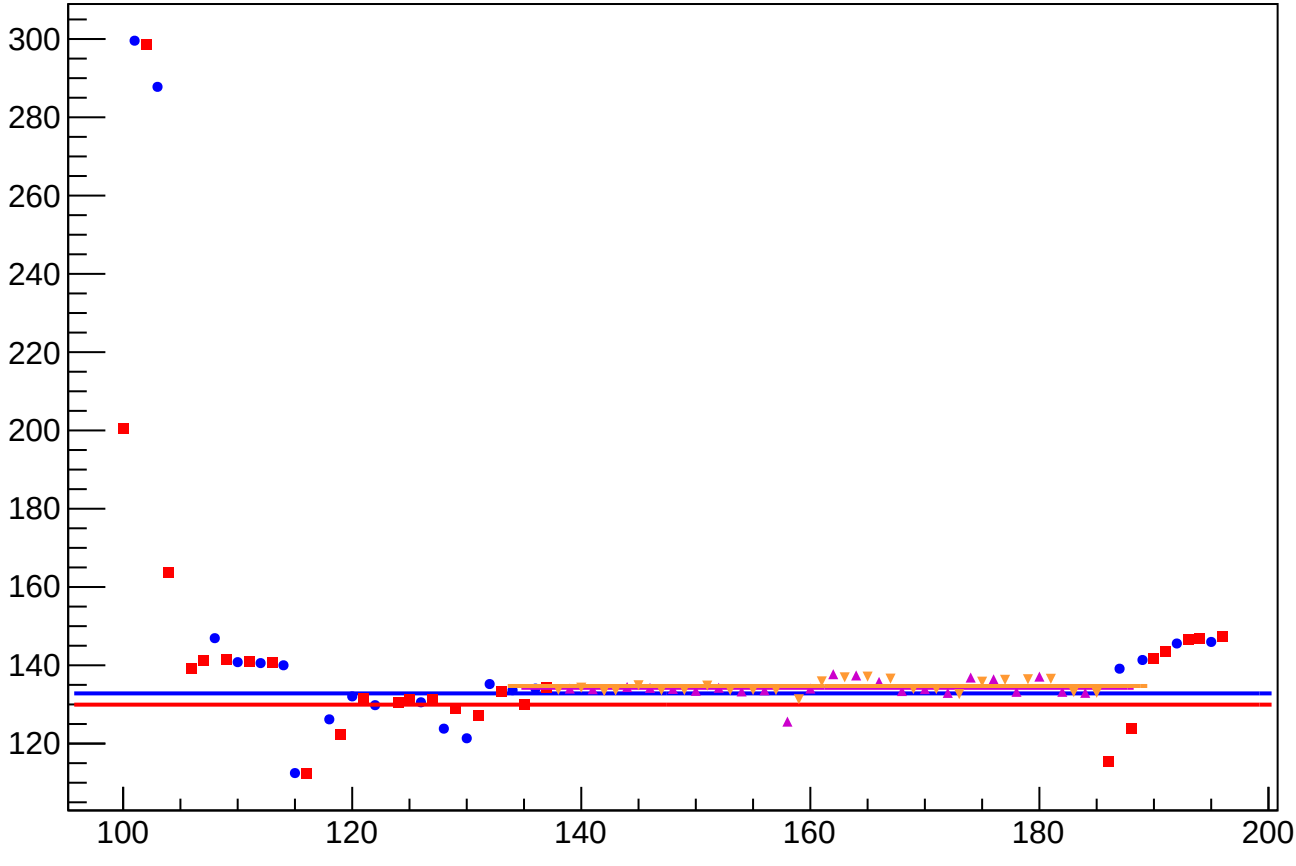
Right: 0.015+/-0.000 $\chi^2$/NDF: 29856946.5/45

In: 0.018+/-0.000 $\chi^2$/NDF:41418598.6/42

Out: 0.018+/-0.000 $\chi^2$/NDF:45850905.8/50

All: 0.018+/-0.000 $\chi^2$/NDF: 87269671.8/93

# yield_cav4cQ_mean vs Slug, Sign Corrected




Right In: 132.821+/-0.000 $\chi^2$/NDF: 2528189159.4/19

Left Out: 134.714+/-0.000 $\chi^2$/NDF:159886495.0/24

Right Out: 129.947+/-0.000 $\chi^2$/NDF: 3869703495.8/25

Left In: 134.250+/-0.000 $\chi^2$/NDF:441522664.4/22

Left: 134.494+/-0.000 $\chi^2$/NDF: 608238403.3/47

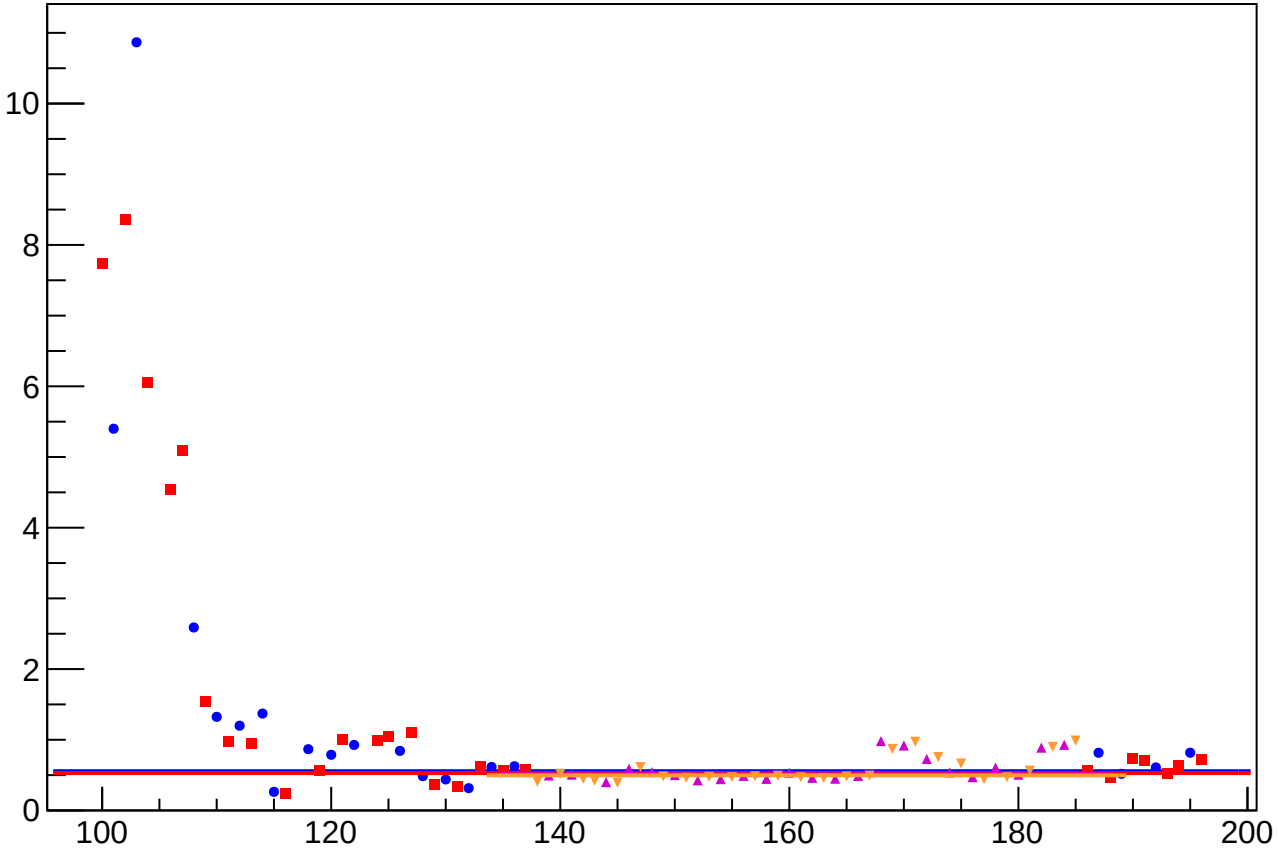
Right: 131.154+/-0.000 $\chi^2$/NDF: 6485408149.0/45

In: 133.918+/-0.000 $\chi^2$/NDF:2998328710.0/42

Out: 133.409+/-0.000 $\chi^2$/NDF:4445795464.8/50

All: 133.644+/-0.000 $\chi^2$/NDF: 7455147458.2

# yield_cav4cQ_rms vs Slug, Sign Corrected




Right In: 0.555+/-0.000 $\chi^2$/NDF: 4368892.0/19

Left Out: 0.497+/-0.000 $\chi^2$/NDF:1572512.9/24

Right Out: 0.529+/-0.000 $\chi^2$/NDF: 5128555.6/25

Left In: 0.510+/-0.000 $\chi^2$/NDF:1485489.4/22

Left: 0.503+/-0.000 $\chi^2$/NDF: 3068206.7/47

Right: 0.540+/-0.000 $\chi^2$/NDF: 9511987.6/45

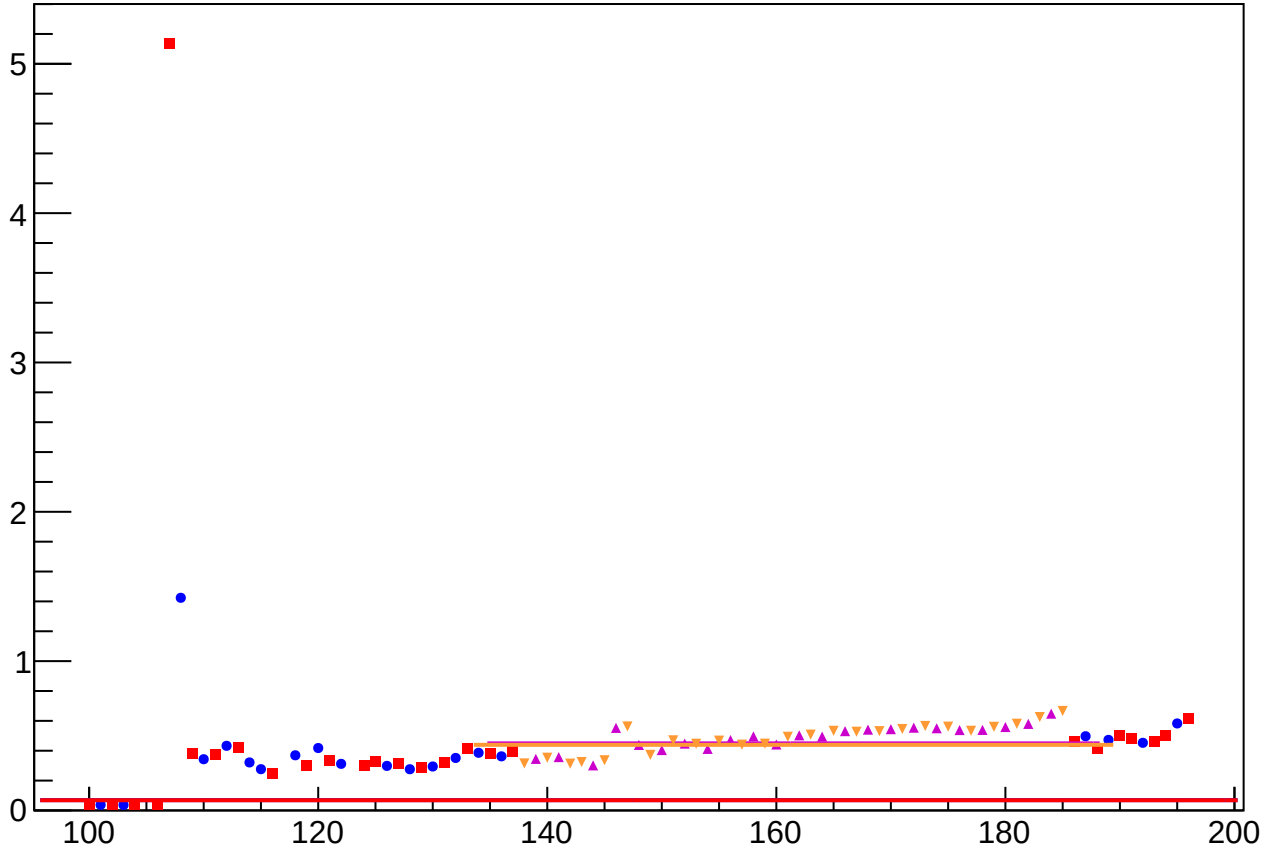
In: 0.520+/-0.000 $\chi^2$/NDF:5912463.4/42

Out: 0.506+/-0.000 $\chi^2$/NDF:6738547.0/50

All: 0.512+/-0.000 $\chi^2$/NDF: 12668808.7/93

yield_cav4dQ_mean vs Slug, Sign Corrected
2000
1800
1600
1400
1200
1000
800
600
400
200
100
120
140
160
180
200
Right In: 1810.849+/-0.000 χ²/NDF: 173903440819011.2/19
Left Out: 137.578+/-0.000 χ²/NDF:64111345.2/24
Right Out: 1819.771+/-0.000 χ²/NDF: 195967101270132.5/25
Left In: 137.349+/-0.000 χ²/NDF:248752254.7/22
Left: 137.469+/-0.000 χ²/NDF: 315189054.5/47
Right: 1815.677+/-0.000 χ²/NDF: 36989553427467
In: 1597.275+/-0.000 χ²/NDF:381284839355235.
Out: 1618.775+/-0.000 χ²/NDF:427306309276489
All: 1608.860+/-0.000 χ²/NDF: 8087568132

# yield_cav4dQ_rms vs Slug, Sign Corrected




Right In: 0.069+/-0.000 $\chi^2$/NDF: 11865138.0/19

Left Out: 0.440+/-0.000 $\chi^2$/NDF:1765604.0/24

Right Out: 0.068+/-0.000 $\chi^2$/NDF: 14119331.9/25

Left In: 0.449+/-0.000 $\chi^2$/NDF:1340860.2/22

Left: 0.444+/-0.000 $\chi^2$/NDF: 3114822.4/47

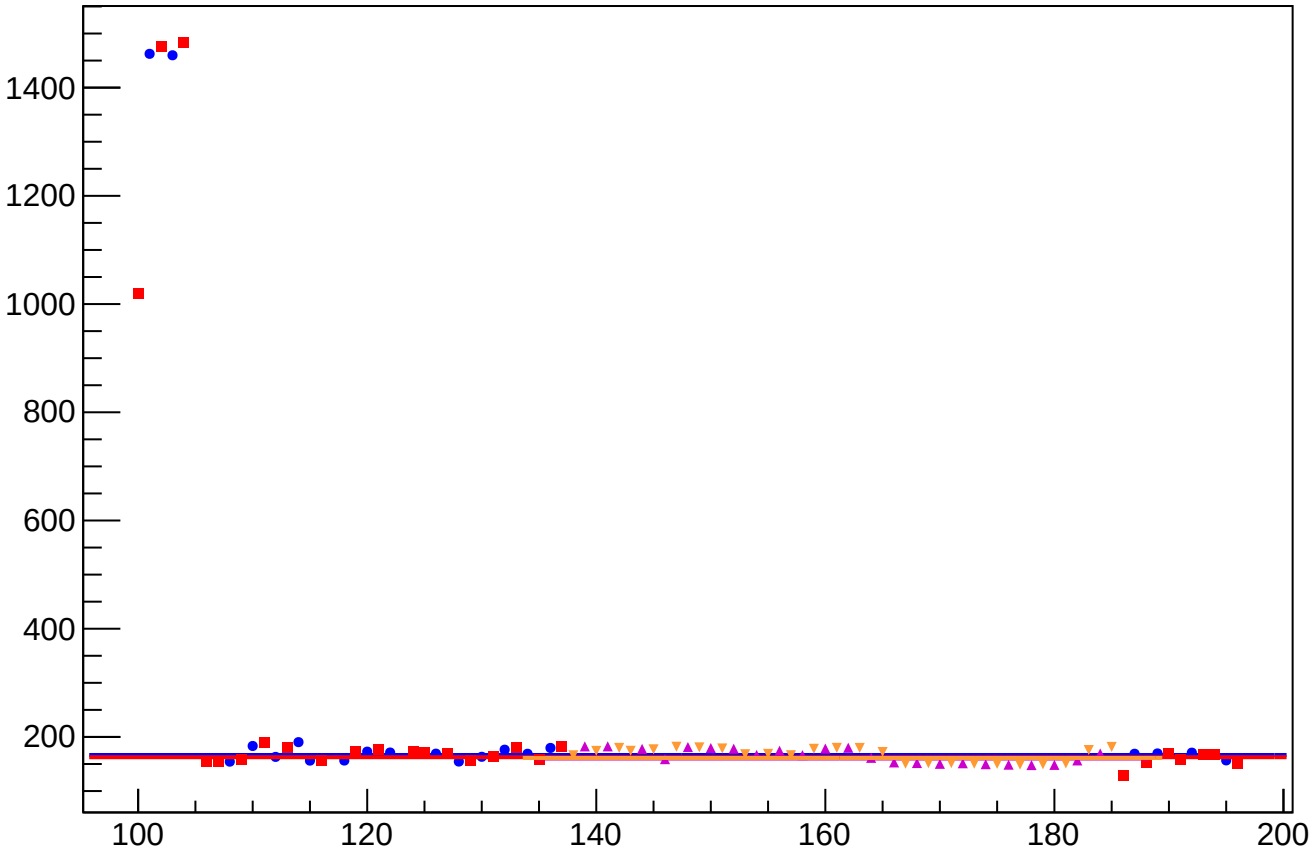
Right: 0.069+/-0.000 $\chi^2$/NDF: 25984740.9/45

In: 0.118+/-0.000 $\chi^2$/NDF:34604806.2/42

Out: 0.113+/-0.000 $\chi^2$/NDF:38398119.3/50

All: 0.115+/-0.000 $\chi^2$/NDF: 73019656.2/93

# yield_bcm0l02_mean vs Slug, Sign Corrected




Right In: 166.637+/-0.000 $\chi^2$/NDF: 14736884995.5/19

Left Out: 161.147+/-0.000 $\chi^2$/NDF:3739064587.8/24

Right Out: 162.536+/-0.000 $\chi^2$/NDF: 17498655845.2/25

Left In: 160.140+/-0.000 $\chi^2$/NDF:3738383186.1/22

Left: 160.653+/-0.000 $\chi^2$/NDF: 7489655459.9/47

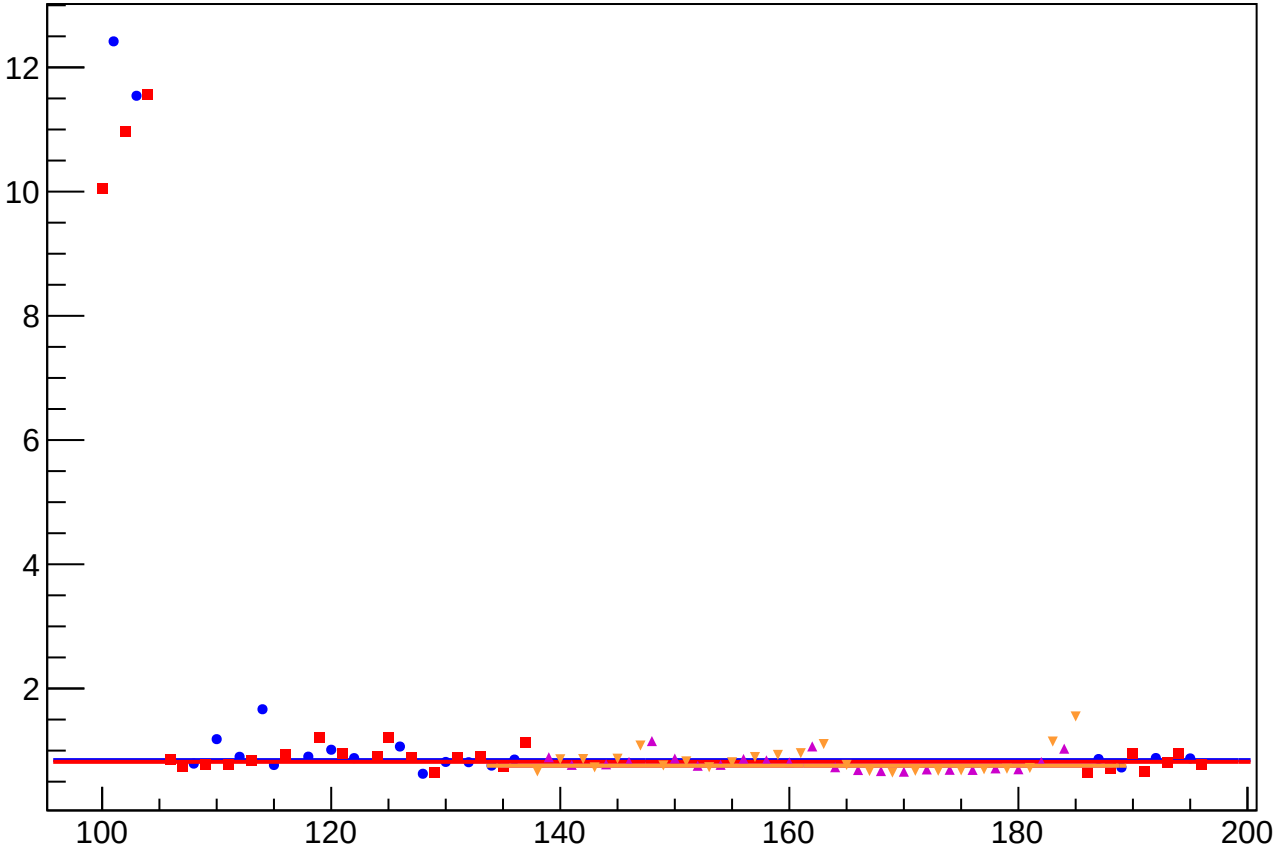
Right: 164.274+/-0.000 $\chi^2$/NDF: 32315855053.7/45

In: 161.829+/-0.000 $\chi^2$/NDF:18734239086.5/42

Out: 161.585+/-0.000 $\chi^2$/NDF:21252615696.2/50

All: 161.700+/-0.000 $\chi^2$/NDF: 39987862559.

# yield_bcm0l02_rms vs Slug, Sign Corrected




Right In: 0.847+/-0.000 $\chi^2$/NDF: 2329485.9/19

Left Out: 0.756+/-0.000 $\chi^2$/NDF:750259.3/24

Right Out: 0.819+/-0.000 $\chi^2$/NDF: 2374792.7/25

Left In: 0.755+/-0.000 $\chi^2$/NDF:472792.1/22

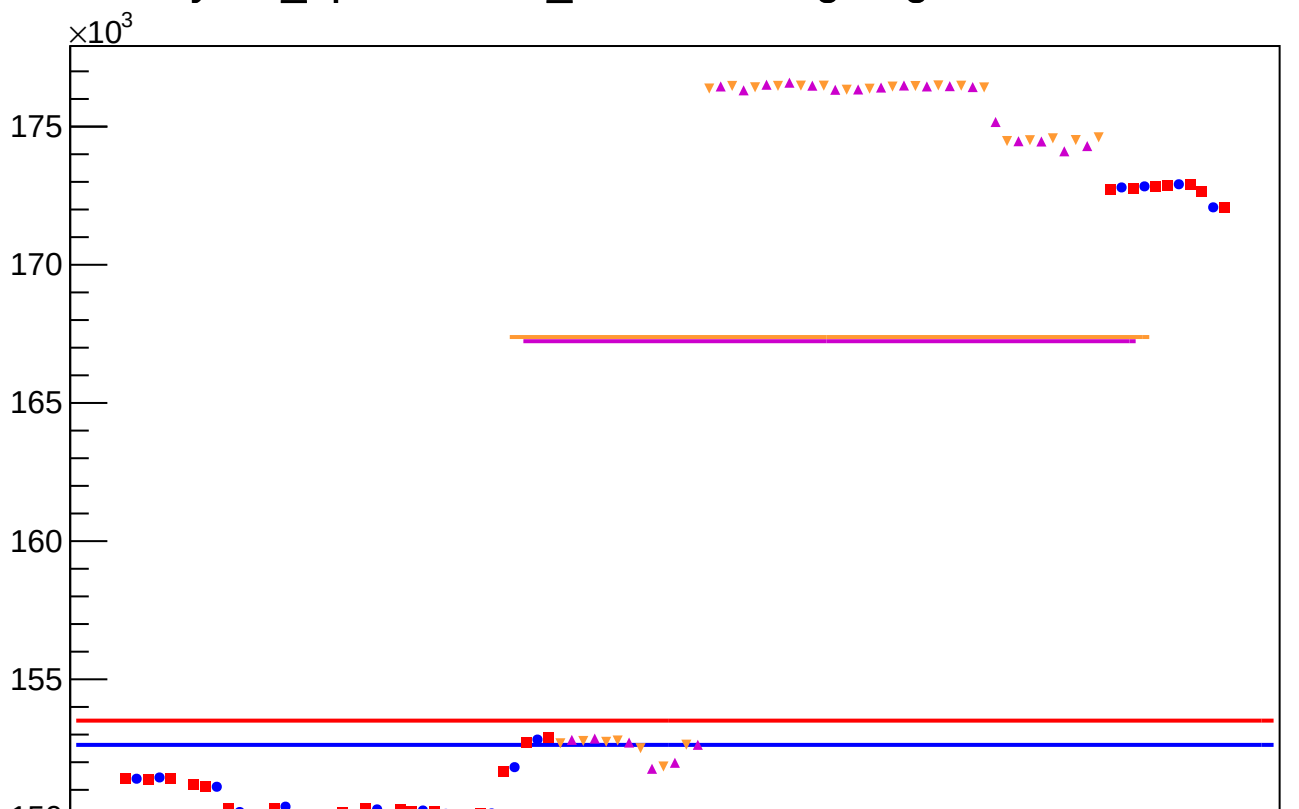
Left: 0.756+/-0.000 $\chi^2$/NDF: 1223069.5/47

Right: 0.831+/-0.000 $\chi^2$/NDF: 4711760.9/45

In: 0.779+/-0.000 $\chi^2$/NDF:2905416.2/42

Out: 0.776+/-0.000 $\chi^2$/NDF:3186010.5/50

All: 0.778+/-0.000 $\chi^2$/NDF: 6091769.4/93




Right In: 152627.183+/-0.052 $\chi^2$/NDF: 15452838321.9/19

Left Out: 167385.483+/-0.047 $\chi^2$/NDF:59602607546.2/24

Right Out: 153505.077+/-0.047 $\chi^2$/NDF: 25220624018.5/25

Left In: 167234.214+/-0.049 $\chi^2$/NDF:55099214555.0/22

Left: 167313.229+/-0.034 $\chi^2$/NDF: 114706826739.

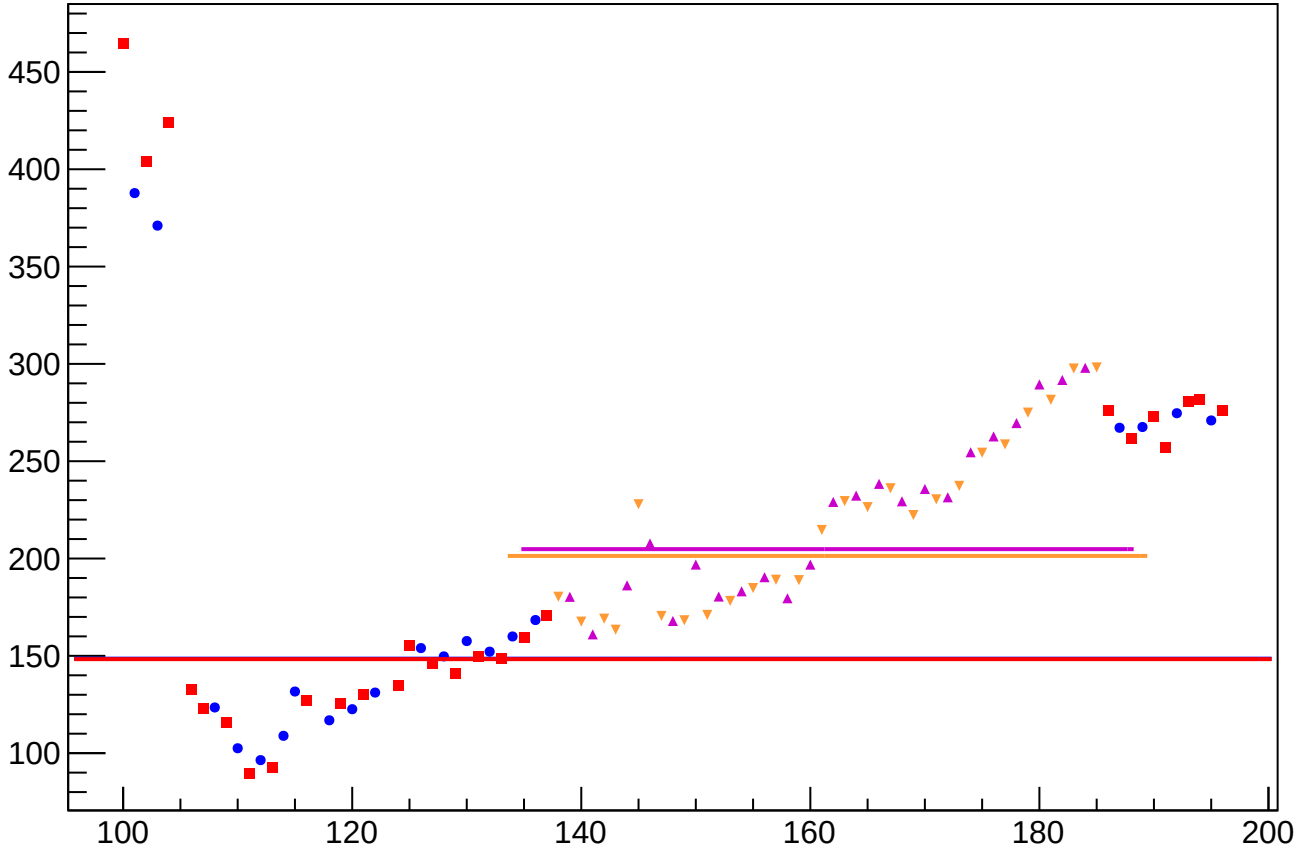
Right: 153106.059+/-0.035 $\chi^2$/NDF: 40828952283.

In: 160383.113+/-0.036 $\chi^2$/NDF:112453927228.2

Out: 160553.103+/-0.033 $\chi^2$/NDF:128247887384.

All: 160473.801+/-0.024 $\chi^2$/NDF: 240713971

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 148.546+/-0.037 $\chi^2$/NDF: 2565703.2/19

Left Out: 201.329+/-0.033 $\chi^2$/NDF:1230655.6/24

Right Out: 148.308+/-0.034 $\chi^2$/NDF: 3746920.9/25

Left In: 204.826+/-0.035 $\chi^2$/NDF:1053130.7/22

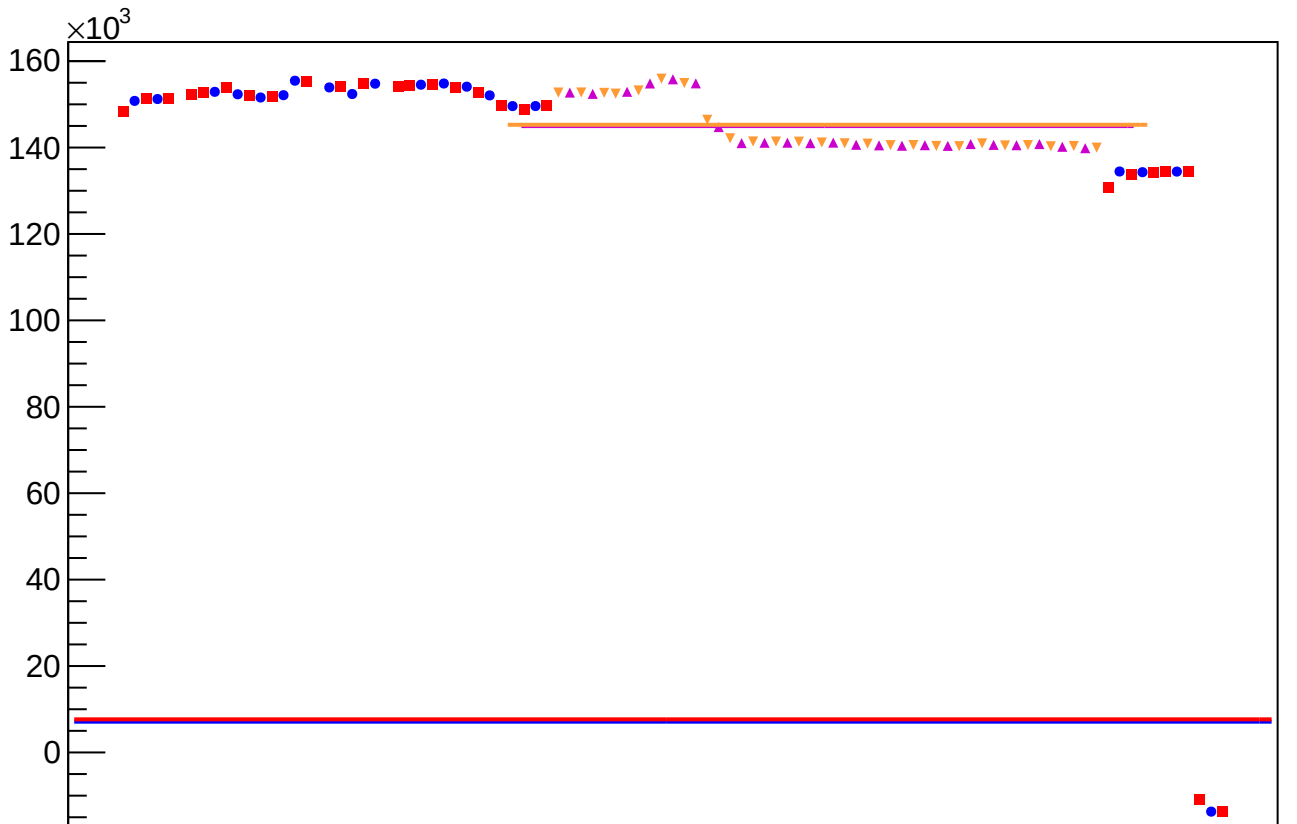
Left: 202.999+/-0.024 $\chi^2$/NDF: 2289136.5/47

Right: 148.416+/-0.025 $\chi^2$/NDF: 6312647.1/45

In: 178.429+/-0.025 $\chi^2$/NDF:4862900.4/42

Out: 175.230+/-0.024 $\chi^2$/NDF:6244808.7/50

All: 176.722+/-0.017 $\chi^2$/NDF: 11116320.2/93




Right In: 7123.584+/-0.024 $\chi^2$/NDF: 5218569965159.4/19

Left Out: 145269.857+/-0.049 $\chi^2$/NDF:13706269279.5/24

Right Out: 7662.098+/-0.021 $\chi^2$/NDF: 6333931819673.5/25

Left In: 144966.398+/-0.051 $\chi^2$/NDF:13154547043.3/22

Left: 145123.606+/-0.036 $\chi^2$/NDF: 26879011850.5

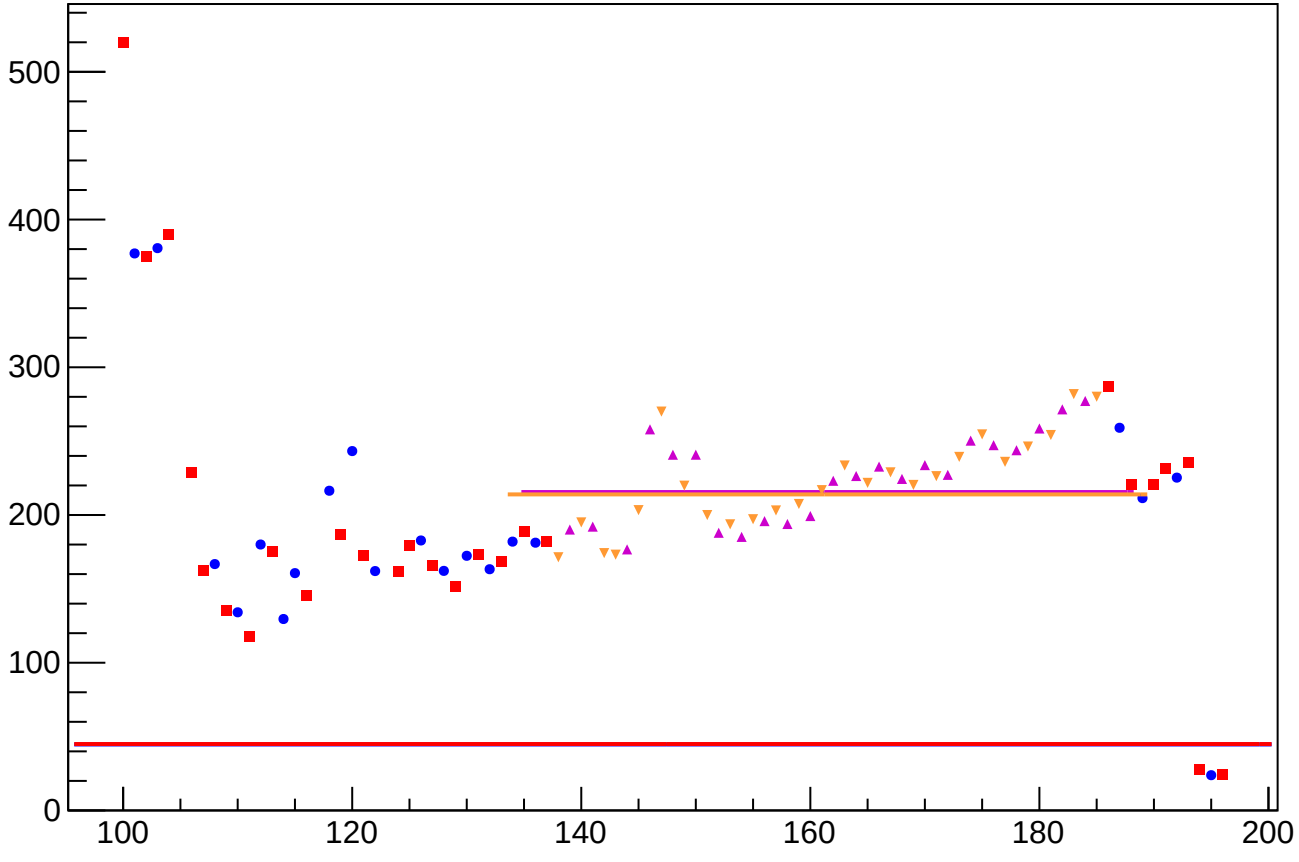
Right: 7421.321+/-0.016 $\chi^2$/NDF: 11552782903984

In: 31751.659+/-0.022 $\chi^2$/NDF:11183891825614.

Out: 29545.326+/-0.020 $\chi^2$/NDF:12876438734418

All: 30544.712+/-0.015 $\chi^2$/NDF: 240660151

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 44.678+/-0.017 $\chi^2$/NDF: 11424516.6/19

Left Out: 213.951+/-0.035 $\chi^2$/NDF:650607.8/24

Right Out: 44.958+/-0.015 $\chi^2$/NDF: 12913476.7/25

Left In: 215.539+/-0.036 $\chi^2$/NDF:600575.7/22

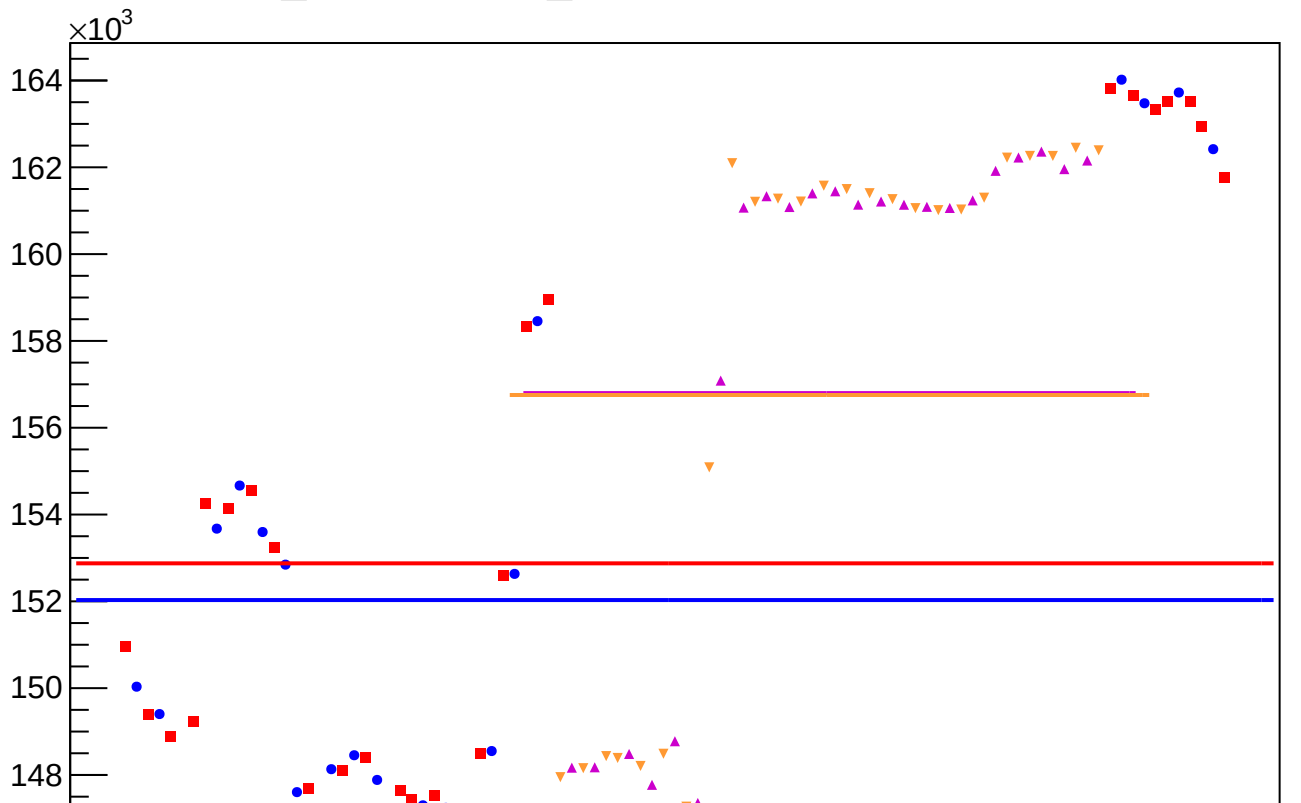
Left: 214.716+/-0.025 $\chi^2$/NDF: 1252179.3/47

Right: 44.833+/-0.011 $\chi^2$/NDF: 24338144.7/45

In: 75.206+/-0.015 $\chi^2$/NDF:30315280.5/42

Out: 71.832+/-0.014 $\chi^2$/NDF:33257257.4/50

All: 73.360+/-0.010 $\chi^2$/NDF: 63599115.5/93




Right In: 152029.720+/-0.060 $\chi^2$/NDF: 7393847577.2/19

Left Out: 156754.233+/-0.049 $\chi^2$/NDF:16380807583.4/24

Right Out: 152875.598+/-0.055 $\chi^2$/NDF: 9555276111.9/25

Left In: 156798.005+/-0.051 $\chi^2$/NDF:14344098884.4/22

Left: 156775.103+/-0.035 $\chi^2$/NDF: 30725292627.5

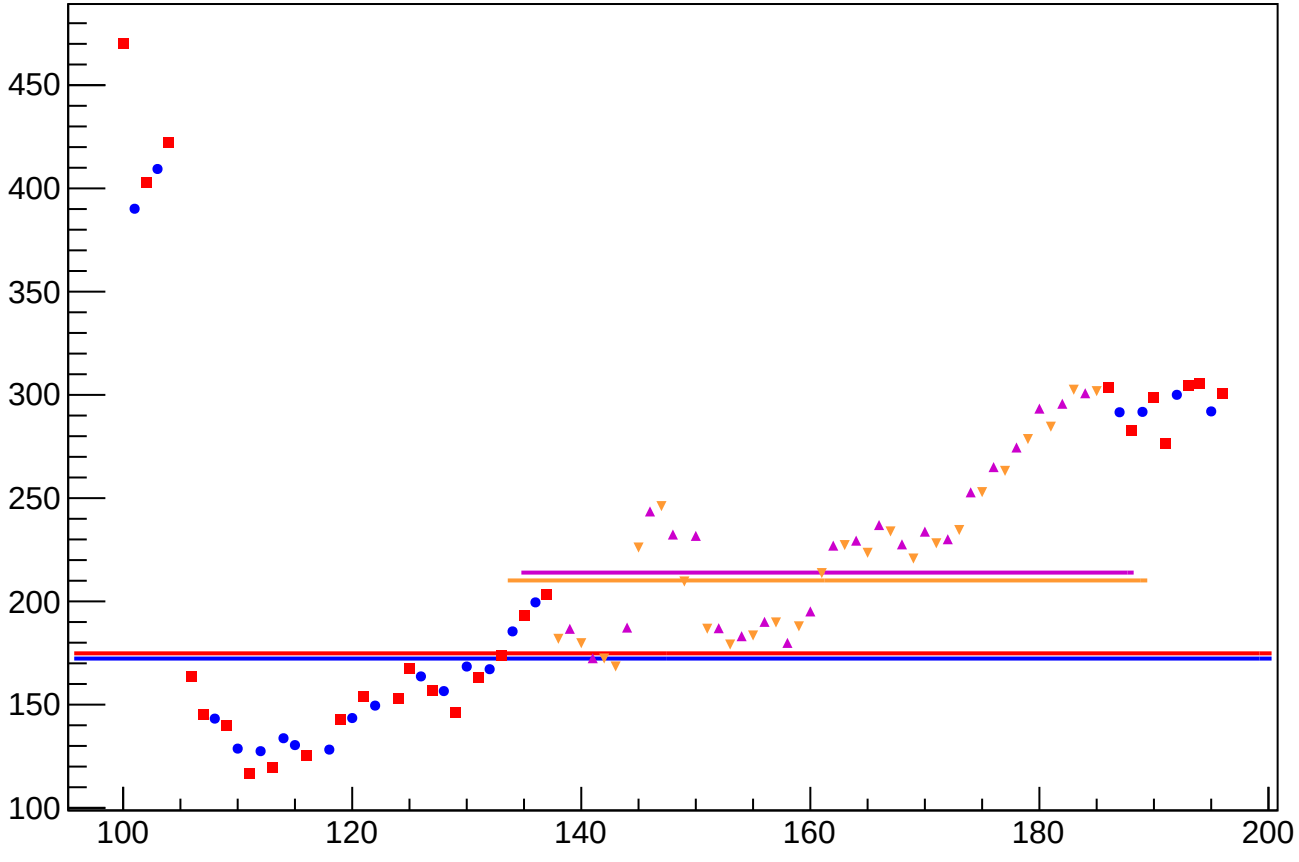
Right: 152484.168+/-0.041 $\chi^2$/NDF: 17057523043.2

In: 154782.678+/-0.039 $\chi^2$/NDF:25439608395.1/4

Out: 155061.324+/-0.037 $\chi^2$/NDF:28711578294.6

All: 154930.150+/-0.027 $\chi^2$/NDF: 54178603

# yield_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 172.309+/-0.042 $\chi^2$/NDF: 2176230.6/19

Left Out: 210.142+/-0.034 $\chi^2$/NDF:997802.7/24

Right Out: 174.838+/-0.039 $\chi^2$/NDF: 3027338.8/25

Left In: 213.945+/-0.036 $\chi^2$/NDF:914465.3/22

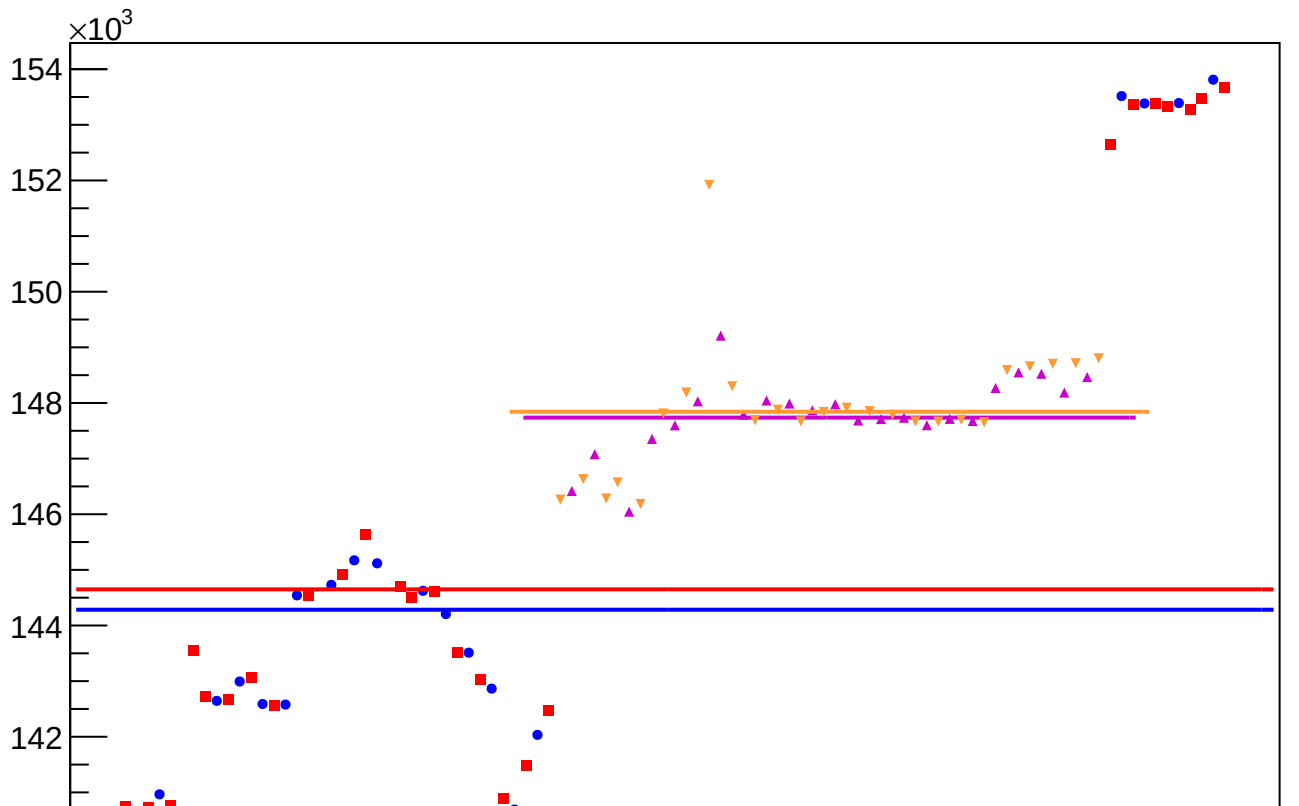
Left: 211.955+/-0.025 $\chi^2$/NDF: 1918098.0/47

Right: 173.668+/-0.029 $\chi^2$/NDF: 5205506.2/45

In: 196.348+/-0.027 $\chi^2$/NDF:3655157.8/42

Out: 194.733+/-0.026 $\chi^2$/NDF:4485048.4/50

All: 195.493+/-0.019 $\chi^2$/NDF: 8142048.1/93




Right In: 144283.589+/-0.051 $\chi^2$/NDF: 4051576105.3/19

Left Out: 147842.157+/-0.045 $\chi^2$/NDF:713066054.2/24

Right Out: 144649.963+/-0.046 $\chi^2$/NDF: 6179195836.4/25

Left In: 147736.722+/-0.047 $\chi^2$/NDF:227077133.0/22

Left: 147791.782+/-0.033 $\chi^2$/NDF: 942750848.6/47

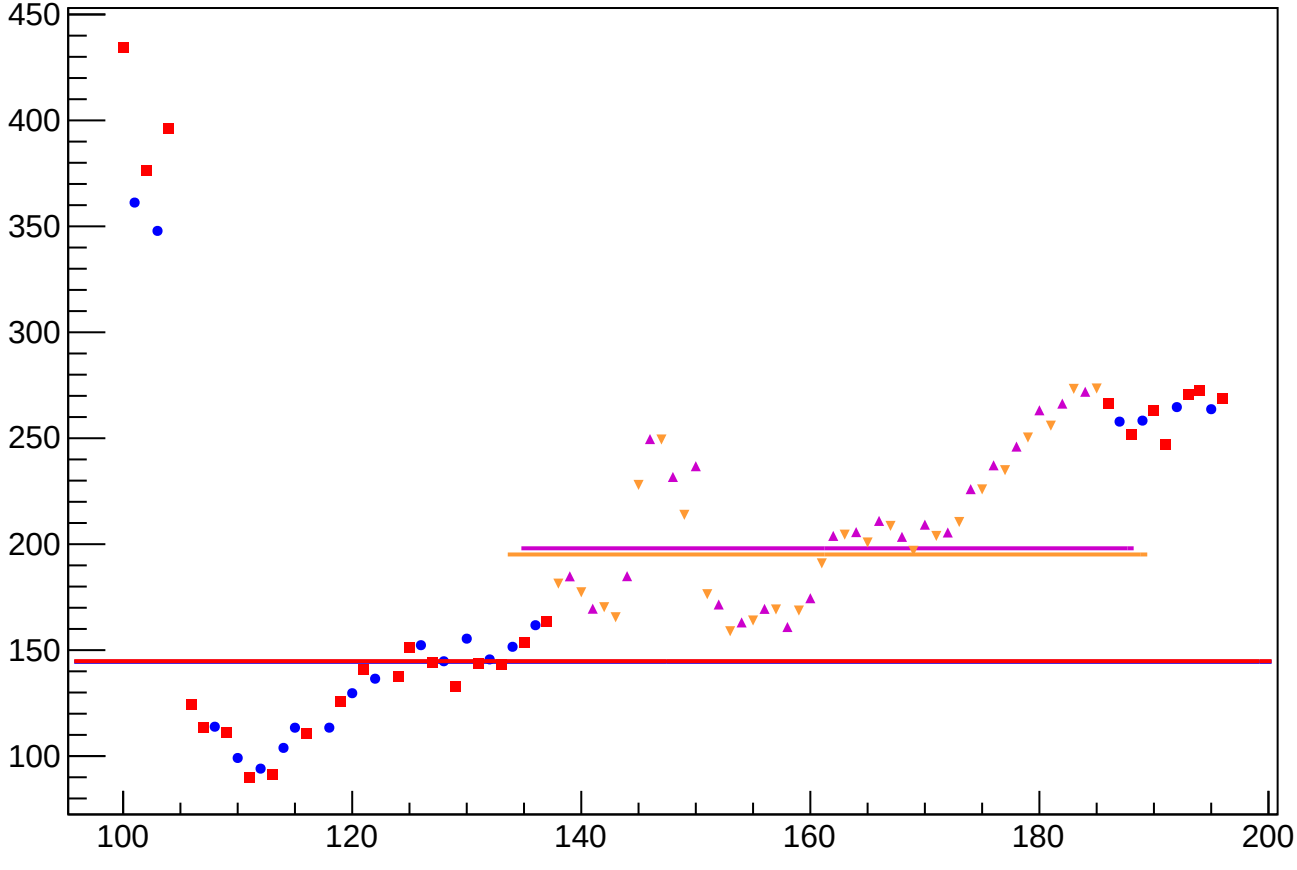
Right: 144483.161+/-0.034 $\chi^2$/NDF: 10259378262.3

In: 146129.207+/-0.034 $\chi^2$/NDF:6772051021.2/42

Out: 146284.126+/-0.032 $\chi^2$/NDF:9334127847.7/5

All: 146211.774+/-0.024 $\chi^2$/NDF: 16116928

# yield_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 144.491+/-0.036 $\chi^2$/NDF: 2513994.3/19

Left Out: 195.145+/-0.032 $\chi^2$/NDF:903994.2/24

Right Out: 144.803+/-0.033 $\chi^2$/NDF: 3626582.6/25

Left In: 198.057+/-0.033 $\chi^2$/NDF:900359.1/22

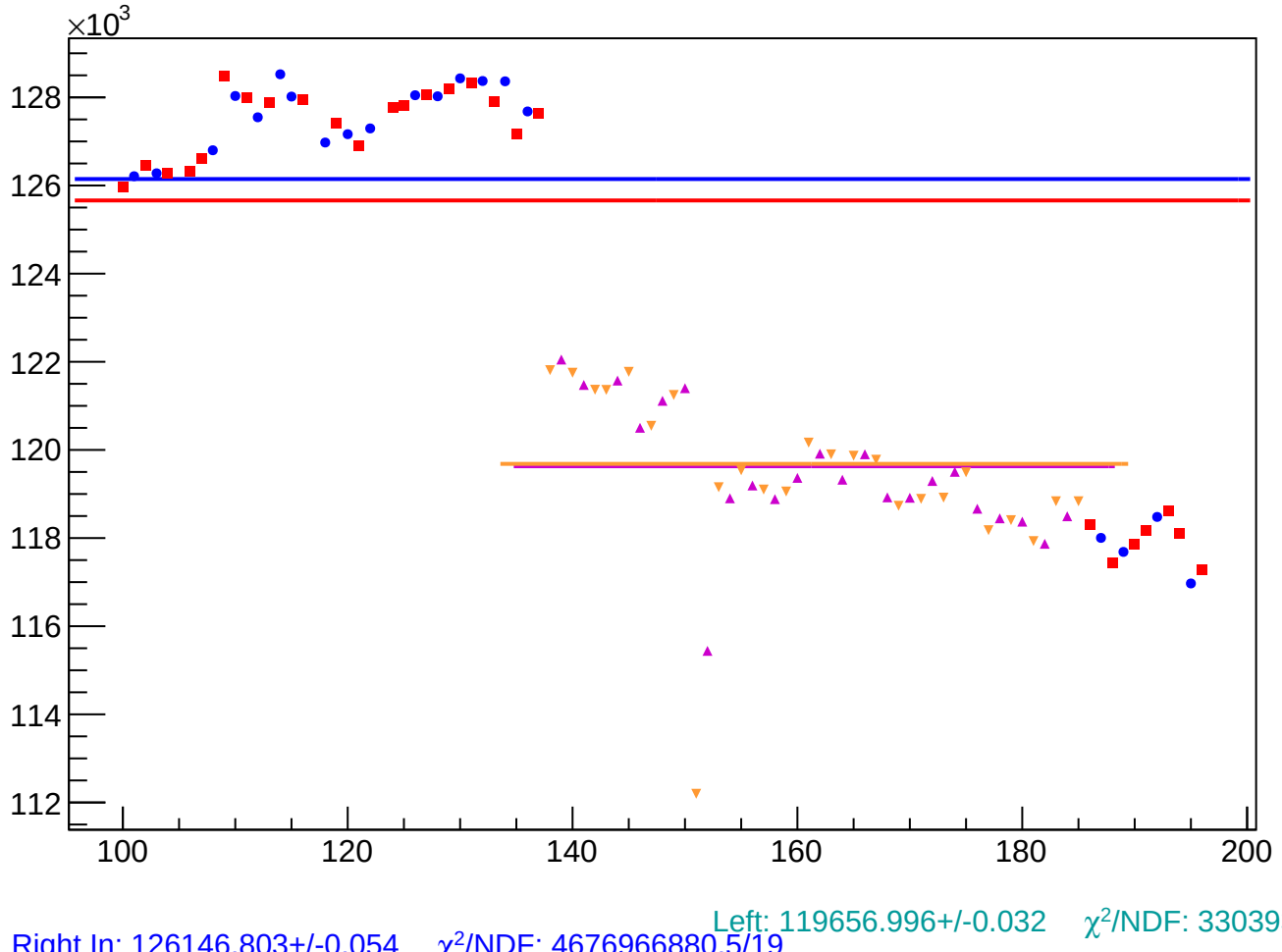
Left: 196.536+/-0.023 $\chi^2$/NDF: 1808329.6/47

Right: 144.661+/-0.024 $\chi^2$/NDF: 6140618.4/45

In: 173.120+/-0.024 $\chi^2$/NDF:4614341.4/42

Out: 170.574+/-0.023 $\chi^2$/NDF:5745224.2/50

All: 171.763+/-0.017 $\chi^2$/NDF: 10365372.9/93




Right In: 126146.803+/-0.054 $\chi^2$/NDF: 4676966880.5/19

Left Out: 119683.519+/-0.044 $\chi^2$/NDF:1985993997.6/24

Right Out: 125660.895+/-0.049 $\chi^2$/NDF: 6918255668.5/25

Left In: 119629.600+/-0.045 $\chi^2$/NDF:1317214801.7/22

Left: 119656.996+/-0.032 $\chi^2$/NDF: 3303938698.8/4

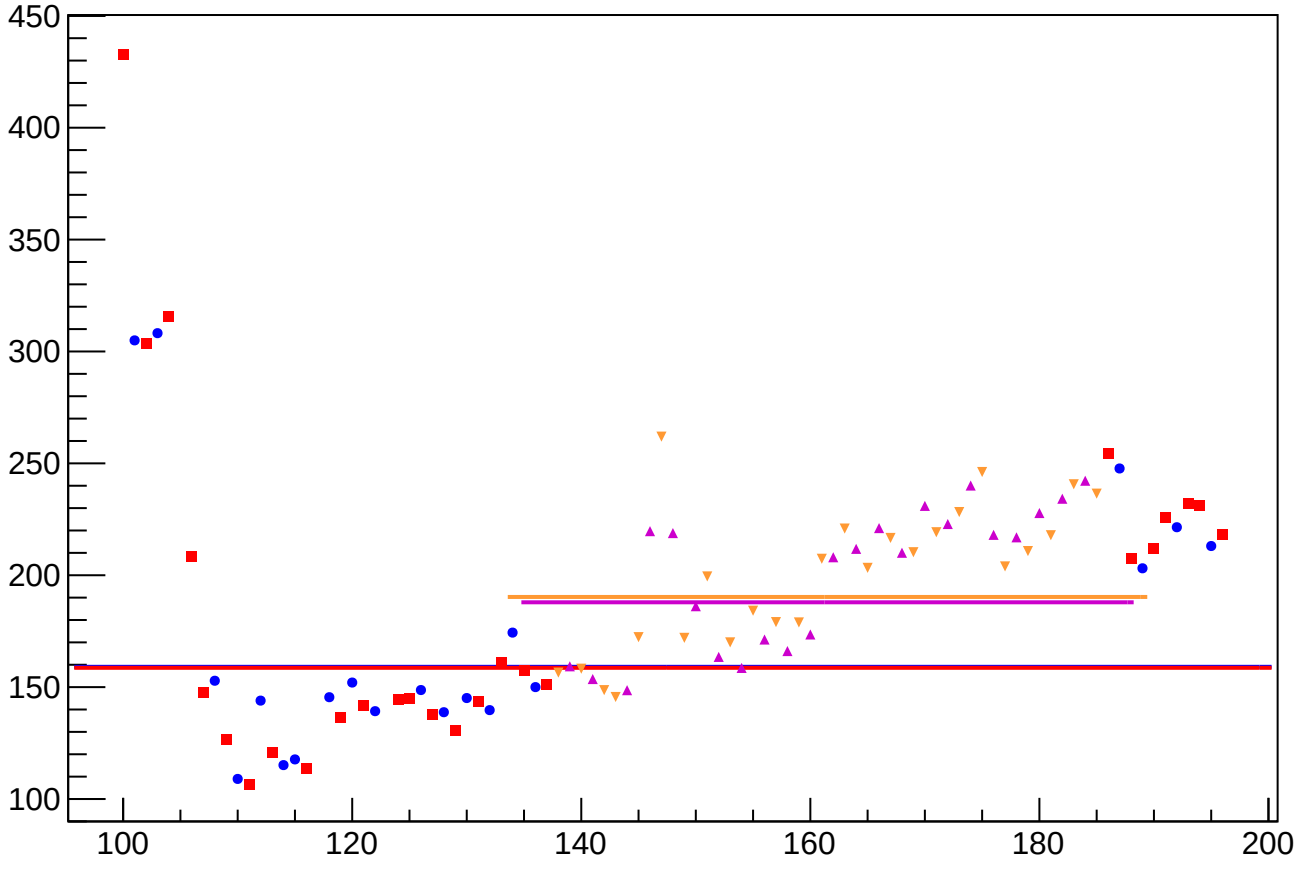
Right: 125880.911+/-0.036 $\chi^2$/NDF: 11640103271.

In: 122319.934+/-0.034 $\chi^2$/NDF:14657951190.8/4

Out: 122381.210+/-0.033 $\chi^2$/NDF:17134157460.9

All: 122352.106+/-0.024 $\chi^2$/NDF: 31793675

# yield_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 159.076+/-0.038 $\chi^2$/NDF: 1251071.7/19

Left Out: 190.298+/-0.031 $\chi^2$/NDF:924542.3/24

Right Out: 158.637+/-0.035 $\chi^2$/NDF: 1951590.3/25

Left In: 187.909+/-0.032 $\chi^2$/NDF:926037.0/22

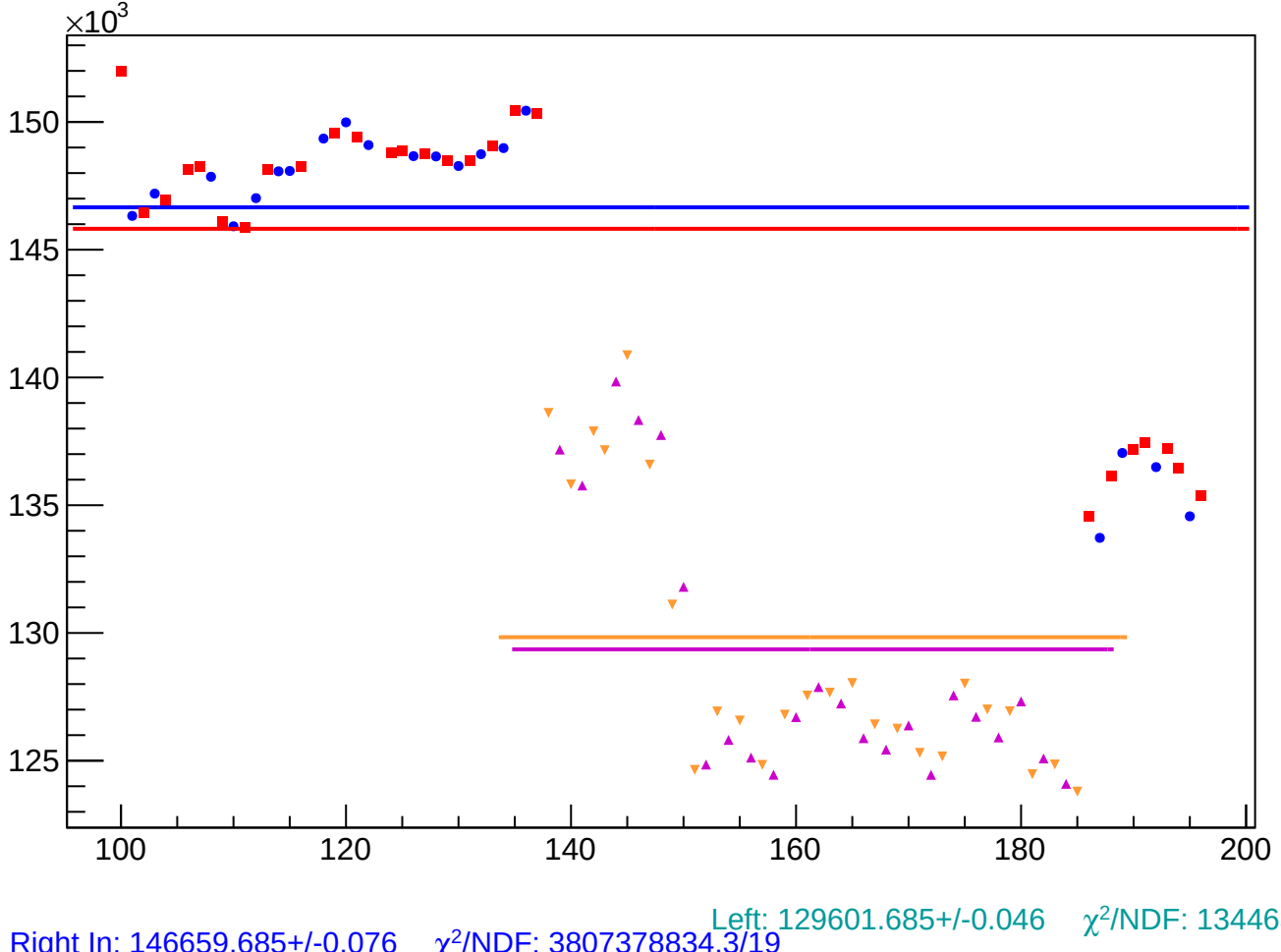
Left: 189.123+/-0.022 $\chi^2$/NDF: 1853444.5/47

Right: 158.836+/-0.026 $\chi^2$/NDF: 3202735.2/45

In: 176.006+/-0.024 $\chi^2$/NDF:2516263.1/42

Out: 176.009+/-0.023 $\chi^2$/NDF:3337926.0/50

All: 176.008+/-0.017 $\chi^2$/NDF: 5854189.1/93




Right In: 146659.685+/-0.076 $\chi^2$/NDF: 3807378834.3/19

Left Out: 129834.437+/-0.064 $\chi^2$/NDF:6793515279.7/24

Right Out: 145819.793+/-0.068 $\chi^2$/NDF: 5381444169.7/25

Left In: 129360.487+/-0.065 $\chi^2$/NDF:6626094577.9/22

Left: 129601.685+/-0.046 $\chi^2$/NDF: 13446375271.9

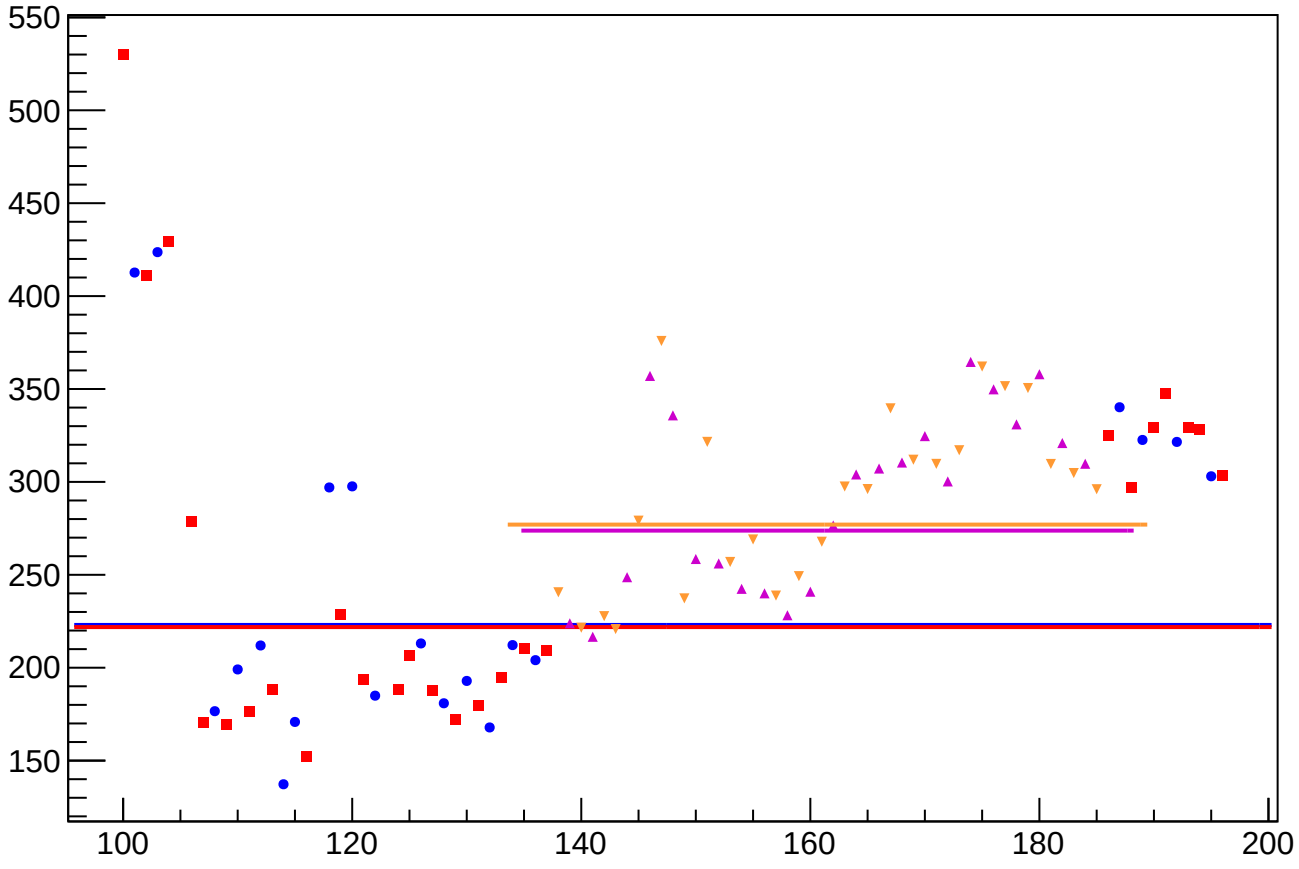
Right: 146196.721+/-0.051 $\chi^2$/NDF: 9256620155.1/

In: 136744.327+/-0.049 $\chi^2$/NDF:40340660798.4/4

Out: 137328.843+/-0.047 $\chi^2$/NDF:41242443123.2

All: 137052.897+/-0.034 $\chi^2$/NDF: 81656781

# yield_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 223.019+/-0.054 $\chi^2$/NDF: 1493750.6/19

Left Out: 277.021+/-0.045 $\chi^2$/NDF:946602.2/24

Right Out: 221.870+/-0.048 $\chi^2$/NDF: 1910332.8/25

Left In: 273.784+/-0.046 $\chi^2$/NDF:1003910.6/22

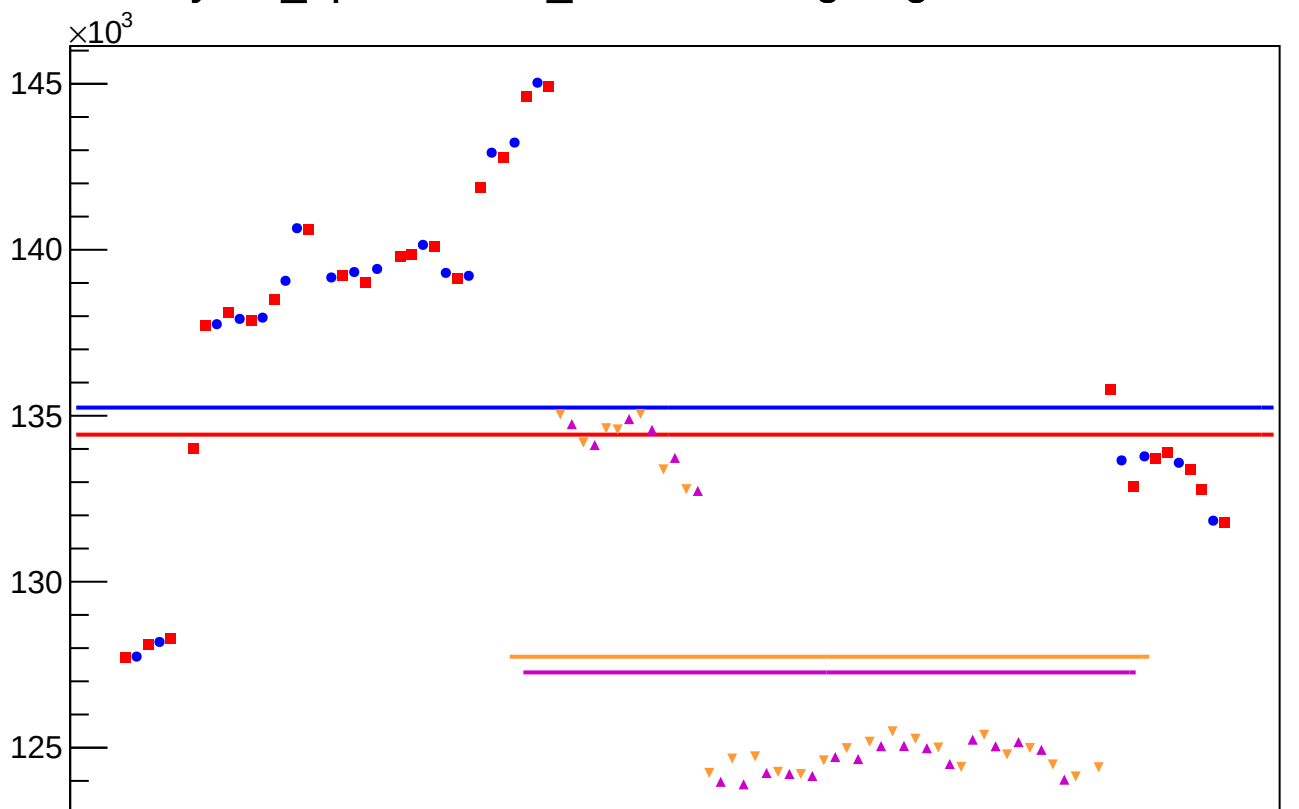
Left: 275.432+/-0.032 $\chi^2$/NDF: 1953009.0/47

Right: 222.385+/-0.036 $\chi^2$/NDF: 3404337.0/45

In: 252.116+/-0.035 $\chi^2$/NDF:3012769.7/42

Out: 251.164+/-0.033 $\chi^2$/NDF:3548924.5/50

All: 251.614+/-0.024 $\chi^2$/NDF: 6562084.6/93




Right In: 135246.763+/-0.138 $\chi^2$/NDF: 1732184369.1/19

Left Out: 127741.156+/-0.136 $\chi^2$/NDF:1092529845.6/24

Right Out: 134431.135+/-0.124 $\chi^2$/NDF: 1318154883.5/25

Left In: 127268.542+/-0.139 $\chi^2$/NDF:971404491.0/22

Left: 127510.062+/-0.097 $\chi^2$/NDF: 2069876354.9/4

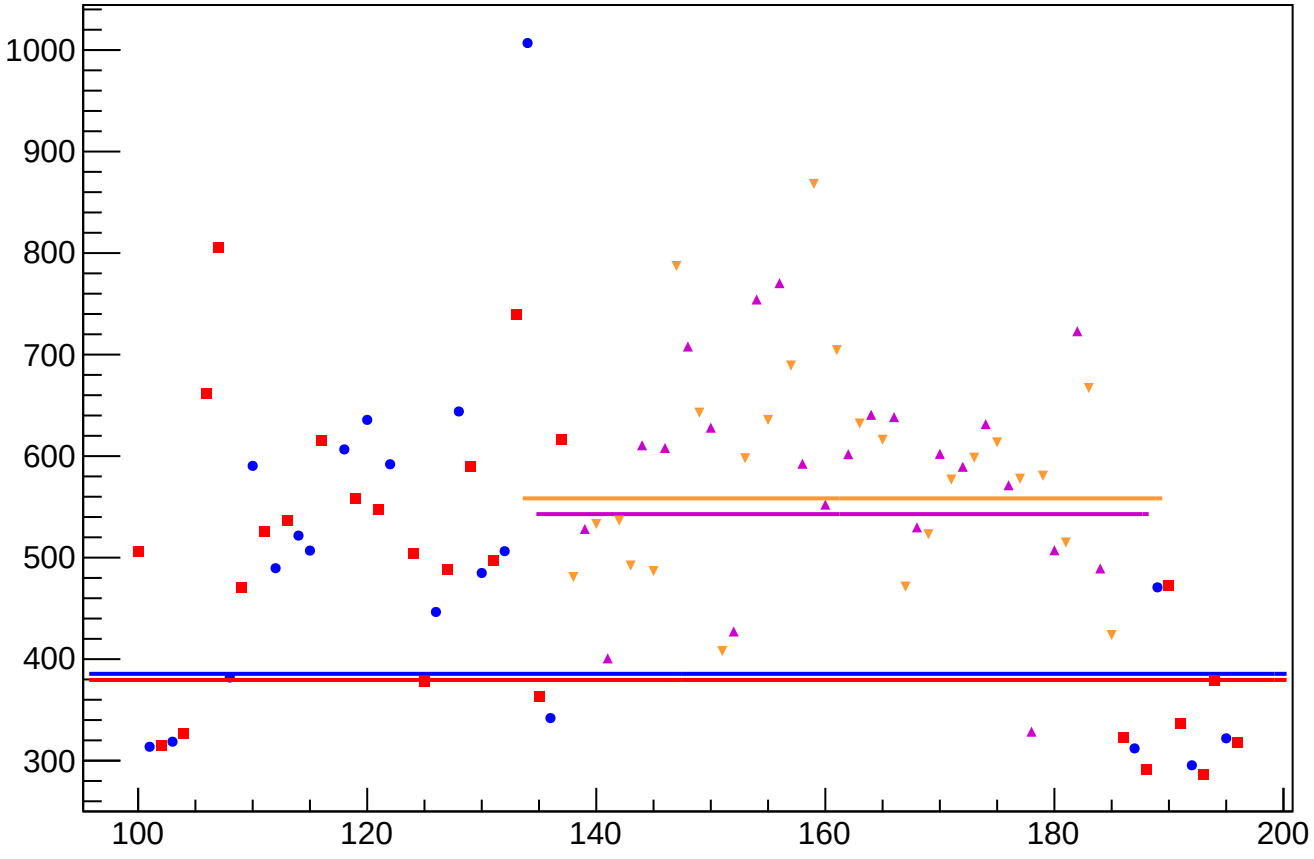
Right: 134798.409+/-0.092 $\chi^2$/NDF: 3069670654.4/

In: 131288.316+/-0.098 $\chi^2$/NDF:4373068912.0/42

Out: 131370.985+/-0.092 $\chi^2$/NDF:3731825195.5/5

All: 131332.239+/-0.067 $\chi^2$/NDF: 81052750

# yield_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 385.540+/-0.097 $\chi^2$/NDF: 1315055.9/19

Left Out: 558.373+/-0.096 $\chi^2$/NDF:968289.3/24

Right Out: 379.513+/-0.088 $\chi^2$/NDF: 1502798.3/25

Left In: 542.872+/-0.098 $\chi^2$/NDF:1416690.9/22

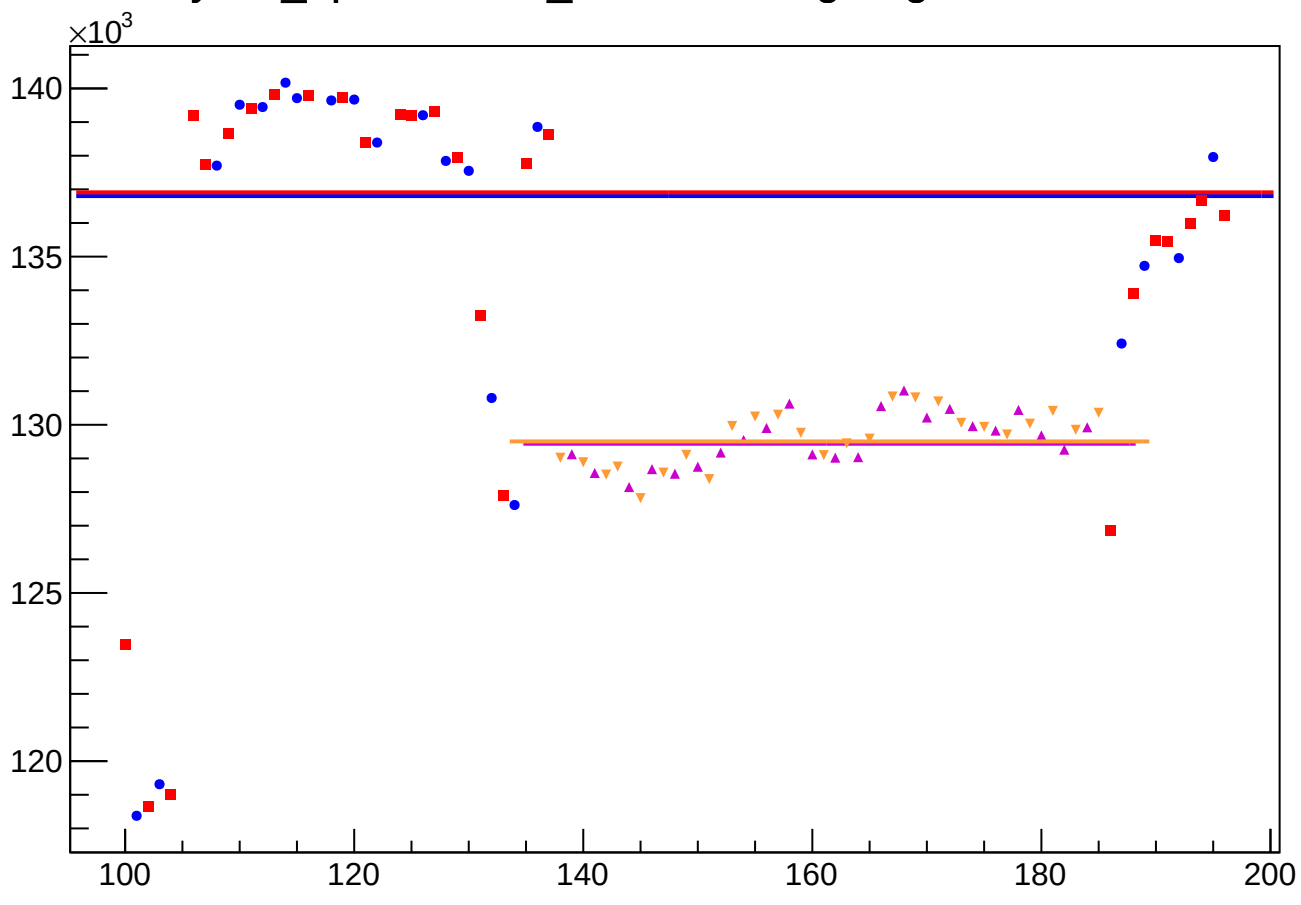
Left: 550.793+/-0.069 $\chi^2$/NDF: 2397764.2/47

Right: 382.227+/-0.065 $\chi^2$/NDF: 2819965.6/45

In: 463.601+/-0.069 $\chi^2$/NDF:4030219.6/42

Out: 461.327+/-0.065 $\chi^2$/NDF:4359762.9/50

All: 462.393+/-0.047 $\chi^2$/NDF: 8390558.9/93




Right In: 136800.670+/-0.066 $\chi^2$/NDF: 5924437505.6/19

Left Out: 129504.922+/-0.047 $\chi^2$/NDF:299464438.2/24

Right Out: 136911.154+/-0.060 $\chi^2$/NDF: 6297664982.5/25

Left In: 129437.551+/-0.048 $\chi^2$/NDF:269025464.3/22

Left: 129472.248+/-0.034 $\chi^2$/NDF: 569486507.5/47

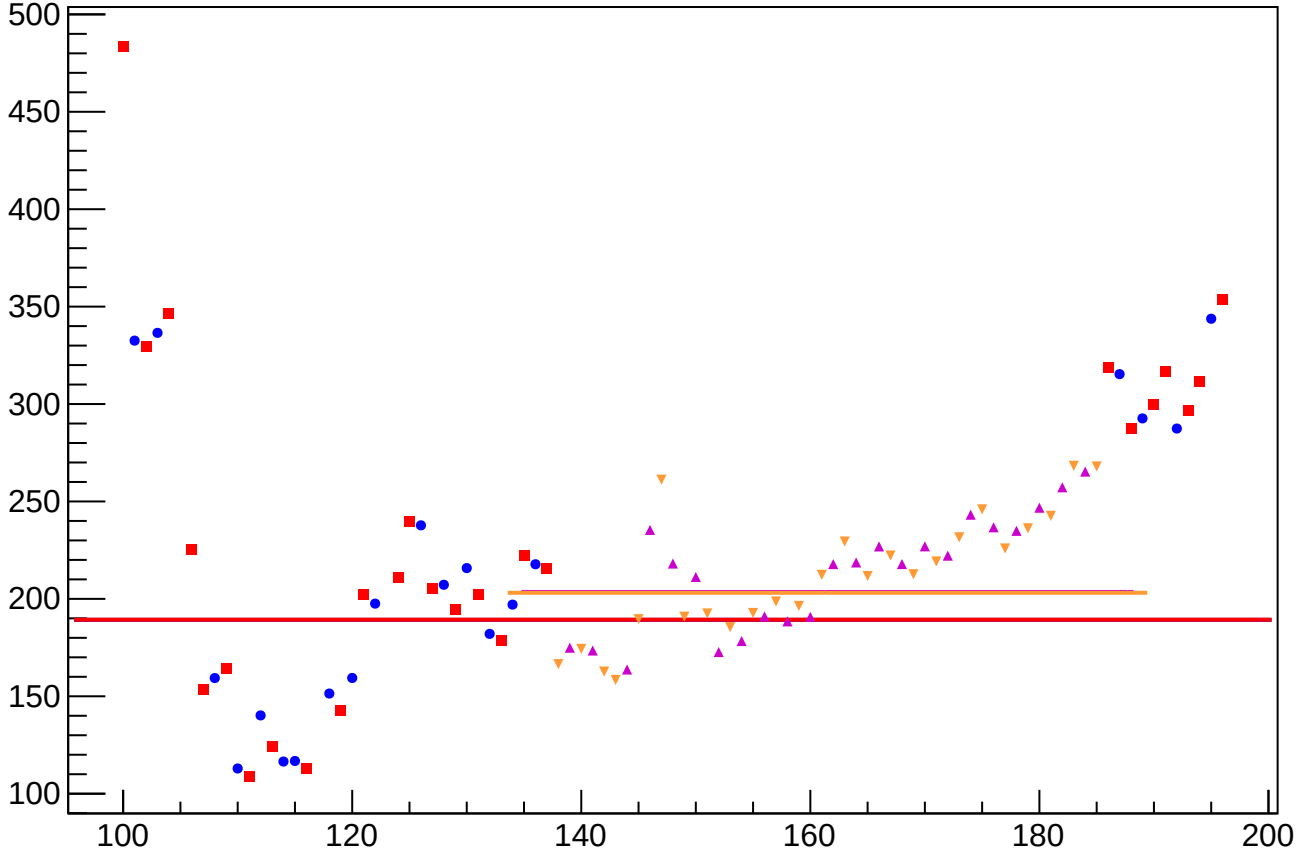
Right: 136860.822+/-0.044 $\chi^2$/NDF: 12223648277.

In: 132036.651+/-0.039 $\chi^2$/NDF:14352500569.6/4

Out: 132322.326+/-0.037 $\chi^2$/NDF:16044186146.7

All: 132186.866+/-0.027 $\chi^2$/NDF: 30424963

# yield_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 189.234+/-0.046 $\chi^2$/NDF: 2046836.8/19

Left Out: 203.129+/-0.033 $\chi^2$/NDF:758448.5/24

Right Out: 189.303+/-0.042 $\chi^2$/NDF: 3033269.2/25

Left In: 203.546+/-0.034 $\chi^2$/NDF:666043.6/22

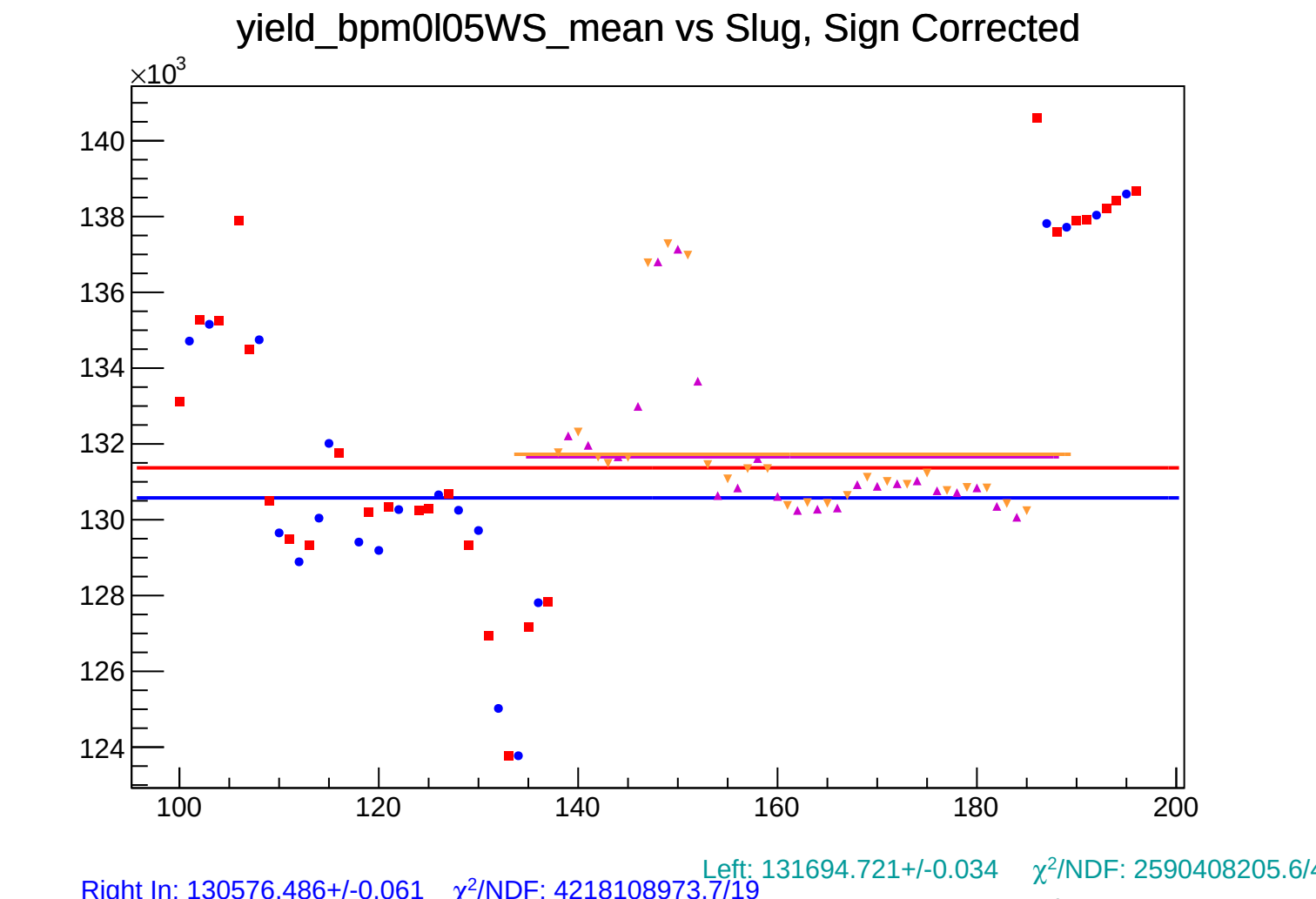
Left: 203.331+/-0.024 $\chi^2$/NDF: 1424568.7/47

Right: 189.271+/-0.031 $\chi^2$/NDF: 5080107.2/45

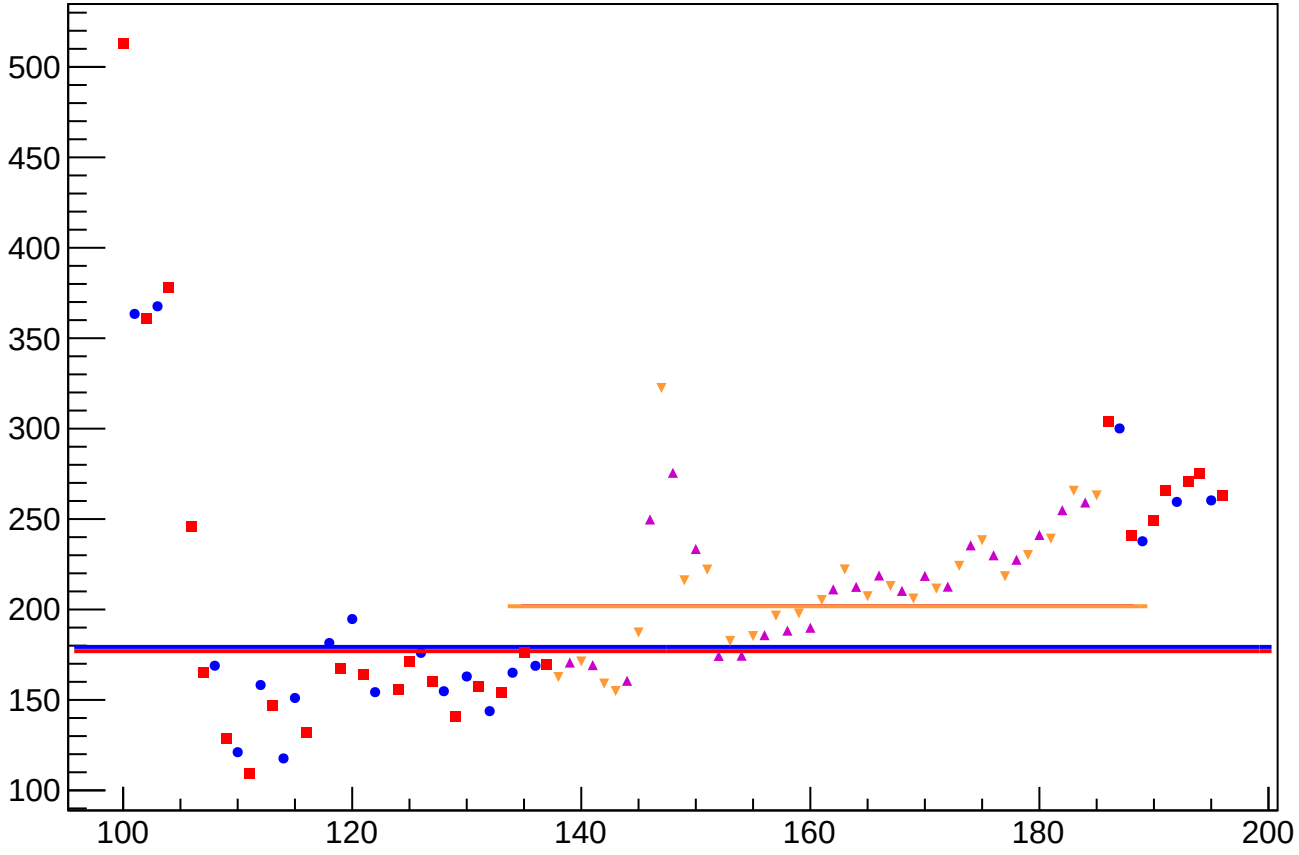
In: 198.494+/-0.028 $\chi^2$/NDF:2774536.9/42

Out: 197.869+/-0.026 $\chi^2$/NDF:3857567.4/50

All: 198.166+/-0.019 $\chi^2$/NDF: 6632375.0/93


yield_bpm0l05WS_mean vs Slug, Sign Corrected
×10^3
140
138
136
134
132
130
128
126
124
100
120
140
160
180
200
Right In: 130576.486+/-0.061 χ²/NDF: 4218108973.7/19
Left Out: 131727.086+/-0.047 χ²/NDF:1425045697.6/24
Right Out: 131369.211+/-0.055 χ²/NDF: 5595485505.8/25
Left In: 131660.490+/-0.048 χ²/NDF:1164380319.7/22
Left: 131694.721+/-0.034 χ²/NDF: 2590408205.6/4
Right: 131013.480+/-0.041 χ²/NDF: 9905953575.8/
In: 131246.120+/-0.038 χ²/NDF:5576020083.3/42
Out: 131577.431+/-0.036 χ²/NDF:7044936813.1/5
All: 131421.368+/-0.026 χ²/NDF: 12661452

# yield_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 179.318+/-0.043 $\chi^2$/NDF: 1489104.8/19

Left Out: 201.798+/-0.033 $\chi^2$/NDF:905352.1/24

Right Out: 176.962+/-0.039 $\chi^2$/NDF: 2369748.9/25

Left In: 201.947+/-0.034 $\chi^2$/NDF:802700.2/22

Left: 201.870+/-0.024 $\chi^2$/NDF: 1708062.2/47

Right: 178.019+/-0.029 $\chi^2$/NDF: 3860486.7/45

In: 193.297+/-0.027 $\chi^2$/NDF:2460470.5/42

Out: 191.412+/-0.025 $\chi^2$/NDF:3510191.5/50

All: 192.300+/-0.018 $\chi^2$/NDF: 5973283.9/93

Right In: 10661.175+/-0.015 $\chi^2$/NDF: 4712090665668.6/19

Left Out: 129050.458+/-0.045 $\chi^2$/NDF:530879250.1/24

Right Out: 10218.927+/-0.013 $\chi^2$/NDF: 5597893210262.2/25

Left In: 128783.852+/-0.047 $\chi^2$/NDF:655675405.6/22

Left: 128921.210+/-0.033 $\chi^2$/NDF: 1203205446.5/4

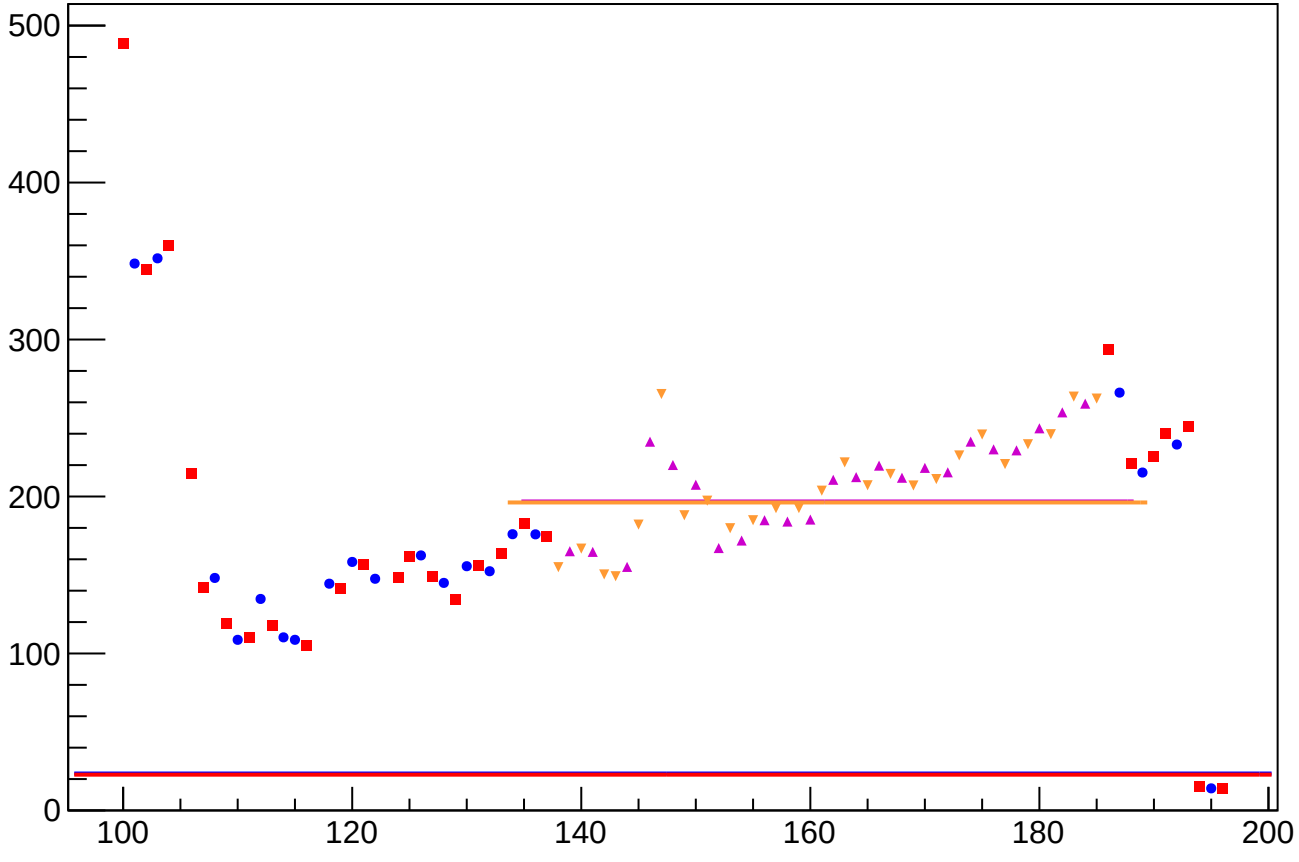
Right: 10412.398+/-0.010 $\chi^2$/NDF: 1031050363667

In: 21031.930+/-0.014 $\chi^2$/NDF:10499978850504.

Out: 18975.055+/-0.012 $\chi^2$/NDF:11919120843898

All: 19882.657+/-0.009 $\chi^2$/NDF: 224313420

# yield_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 23.531+/-0.010 $\chi^2$/NDF: 13685014.3/19

Left Out: 196.203+/-0.032 $\chi^2$/NDF:922826.1/24

Right Out: 22.804+/-0.009 $\chi^2$/NDF: 15747776.2/25

Left In: 196.840+/-0.033 $\chi^2$/NDF:773052.6/22

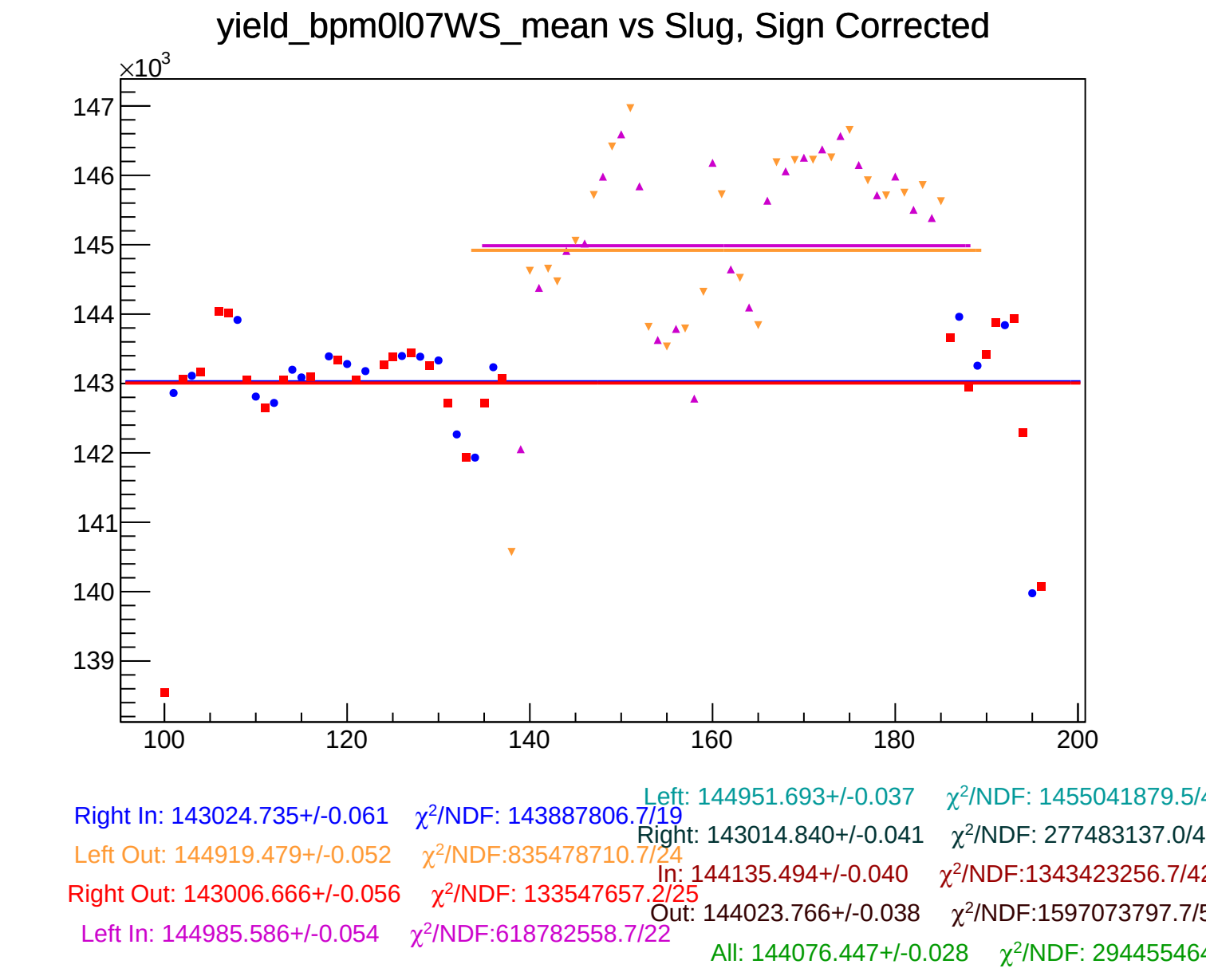
Left: 196.512+/-0.023 $\chi^2$/NDF: 1696068.8/47

Right: 23.122+/-0.007 $\chi^2$/NDF: 29435603.9/45

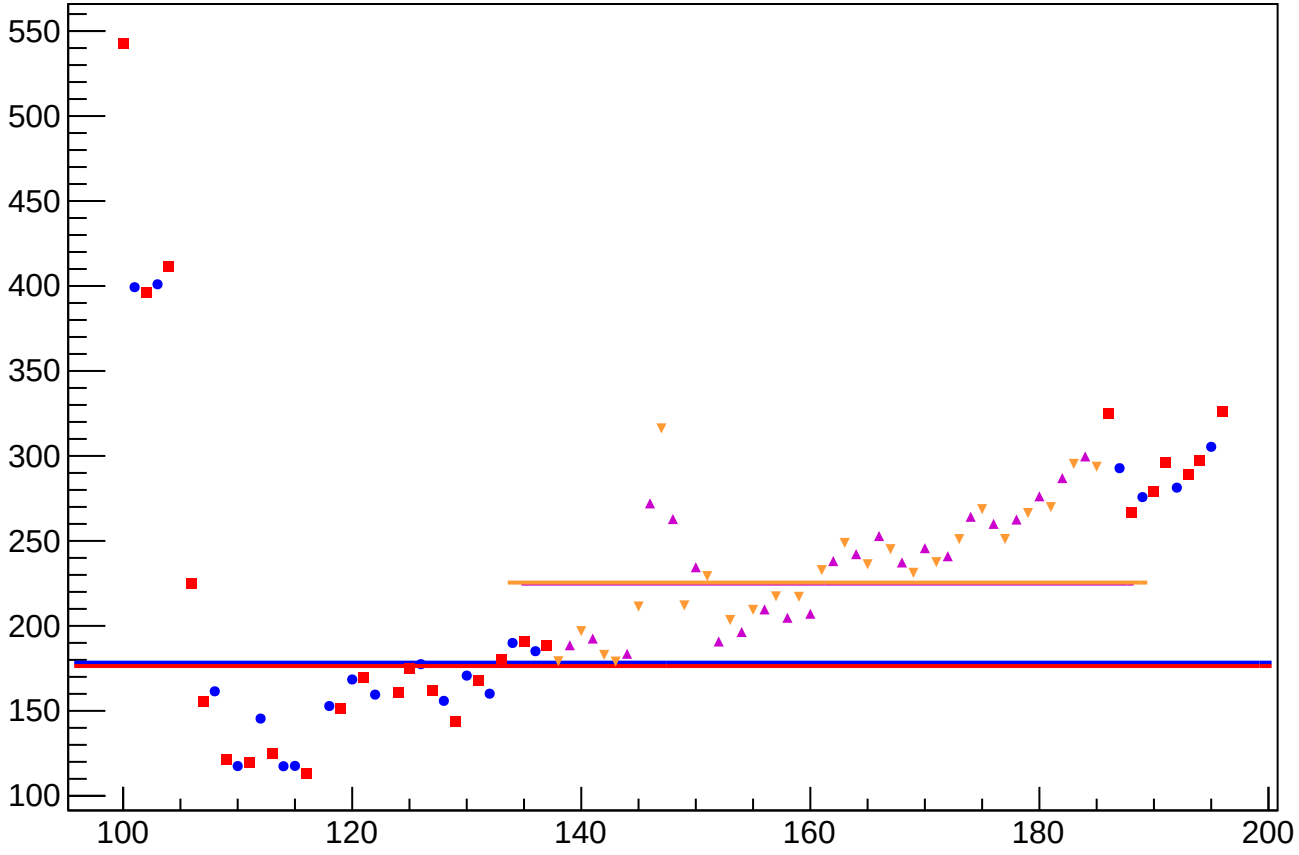
In: 38.747+/-0.010 $\chi^2$/NDF:39373920.4/42

Out: 35.581+/-0.009 $\chi^2$/NDF:43587585.9/50

All: 36.978+/-0.007 $\chi^2$/NDF: 83019534.2/93


yield_bpm0l07WS_mean vs Slug, Sign Corrected
×10^3
147
146
145
144
143
142
141
140
139
100
120
140
160
180
200
Right In: 143024.735+/-0.061 χ²/NDF: 143887806.7/19
Left Out: 144919.479+/-0.052 χ²/NDF:835478710.7/24
Right Out: 143006.666+/-0.056 χ²/NDF: 133547657.2/25
Left In: 144985.586+/-0.054 χ²/NDF:618782558.7/22
Left: 144951.693+/-0.037 χ²/NDF: 1455041879.5/4
Right: 143014.840+/-0.041 χ²/NDF: 277483137.0/4
In: 144135.494+/-0.040 χ²/NDF:1343423256.7/42
Out: 144023.766+/-0.038 χ²/NDF:1597073797.7/5
All: 144076.447+/-0.028 χ²/NDF: 29445546

# yield_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 178.376+/-0.043 $\chi^2$/NDF: 1970428.6/19

Left Out: 225.478+/-0.037 $\chi^2$/NDF:775365.4/24

Right Out: 176.382+/-0.039 $\chi^2$/NDF: 3049718.4/25

Left In: 224.869+/-0.038 $\chi^2$/NDF:723816.1/22

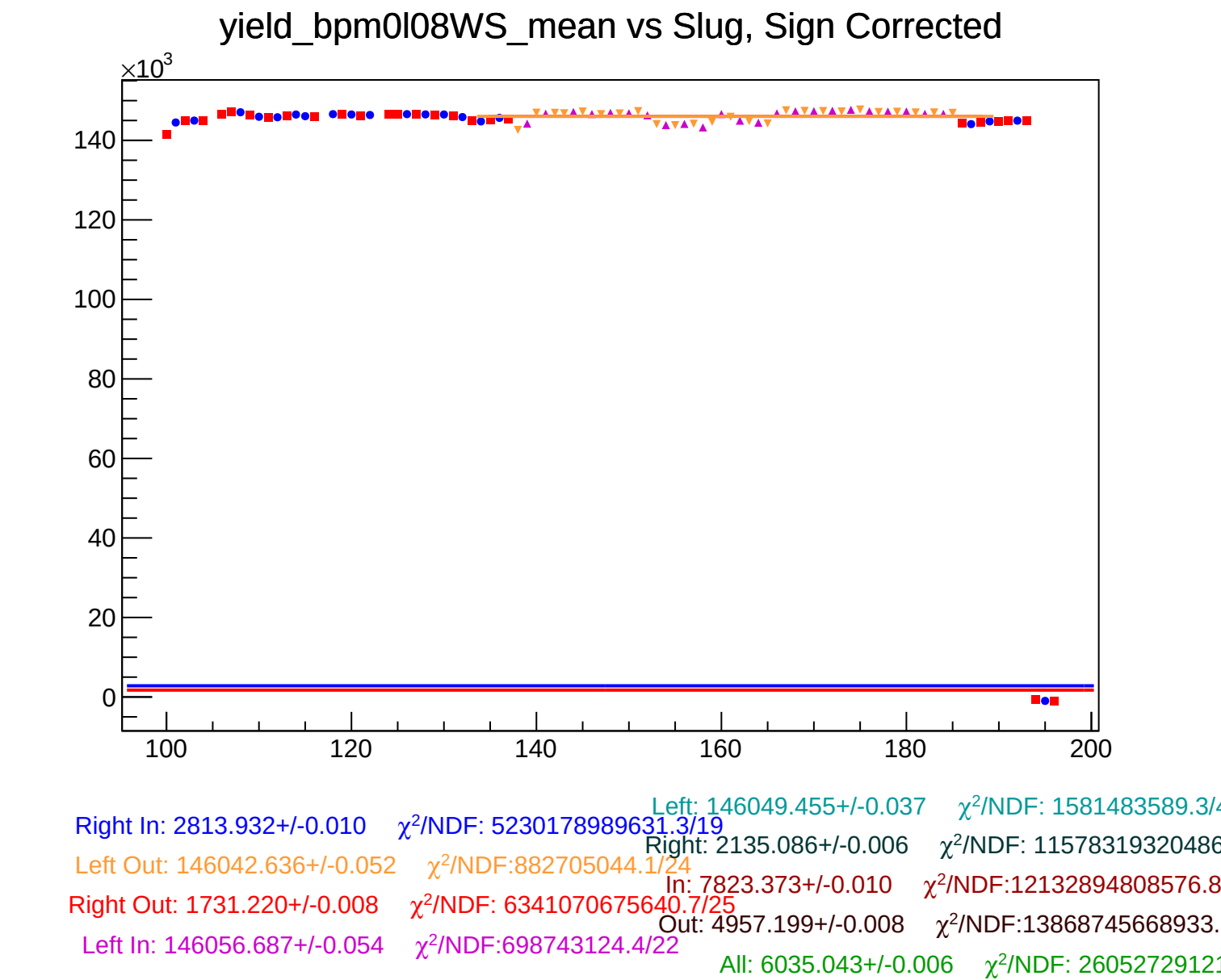
Left: 225.181+/-0.026 $\chi^2$/NDF: 1499314.5/47

Right: 177.284+/-0.029 $\chi^2$/NDF: 5021308.4/45

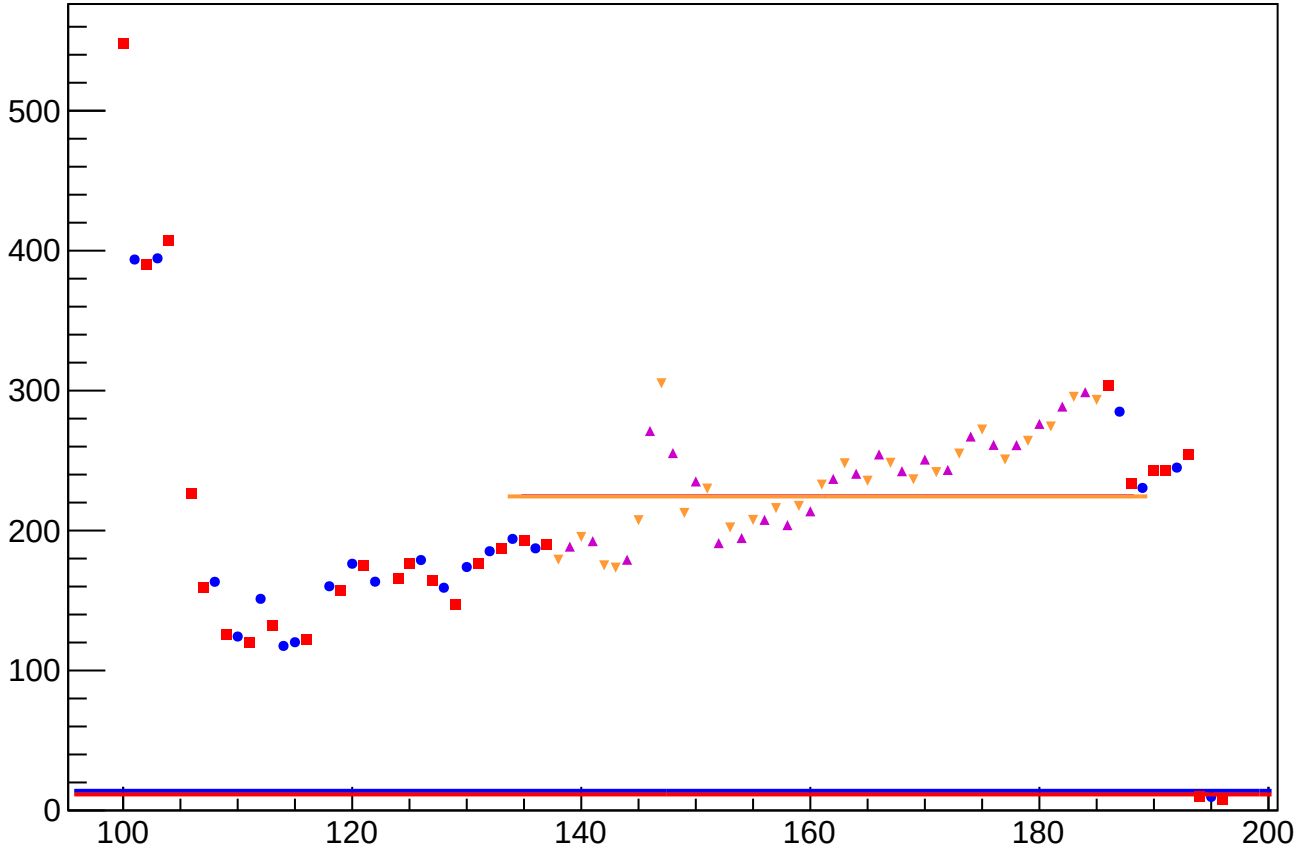
In: 204.713+/-0.029 $\chi^2$/NDF:3347213.2/42

Out: 202.488+/-0.027 $\chi^2$/NDF:4652593.4/50

All: 203.537+/-0.020 $\chi^2$/NDF: 8003023.7/93


yield_bpm0l08WS_mean vs Slug, Sign Corrected
×10^3
140
120
100
80
60
40
20
0
100
120
140
160
180
200
Right In: 2813.932+/-0.010 χ²/NDF: 5230178989631.3/19
Left Out: 146042.636+/-0.052 χ²/NDF:882705044.1/24
Right Out: 1731.220+/-0.008 χ²/NDF: 6341070675640.7/25
Left In: 146056.687+/-0.054 χ²/NDF:698743124.4/22
Left: 146049.455+/-0.037 χ²/NDF: 1581483589.3/4
Right: 2135.086+/-0.006 χ²/NDF: 1157831932048
In: 7823.373+/-0.010 χ²/NDF:12132894808576.8
Out: 4957.199+/-0.008 χ²/NDF:13868745668933.
All: 6035.043+/-0.006 χ²/NDF: 2605272912

# yield_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 14.031+/-0.007 $\chi^2$/NDF: 15152478.5/19

Left Out: 224.409+/-0.037 $\chi^2$/NDF:849100.4/24

Right Out: 11.436+/-0.006 $\chi^2$/NDF: 17777362.2/25

Left In: 224.655+/-0.038 $\chi^2$/NDF:756996.8/22

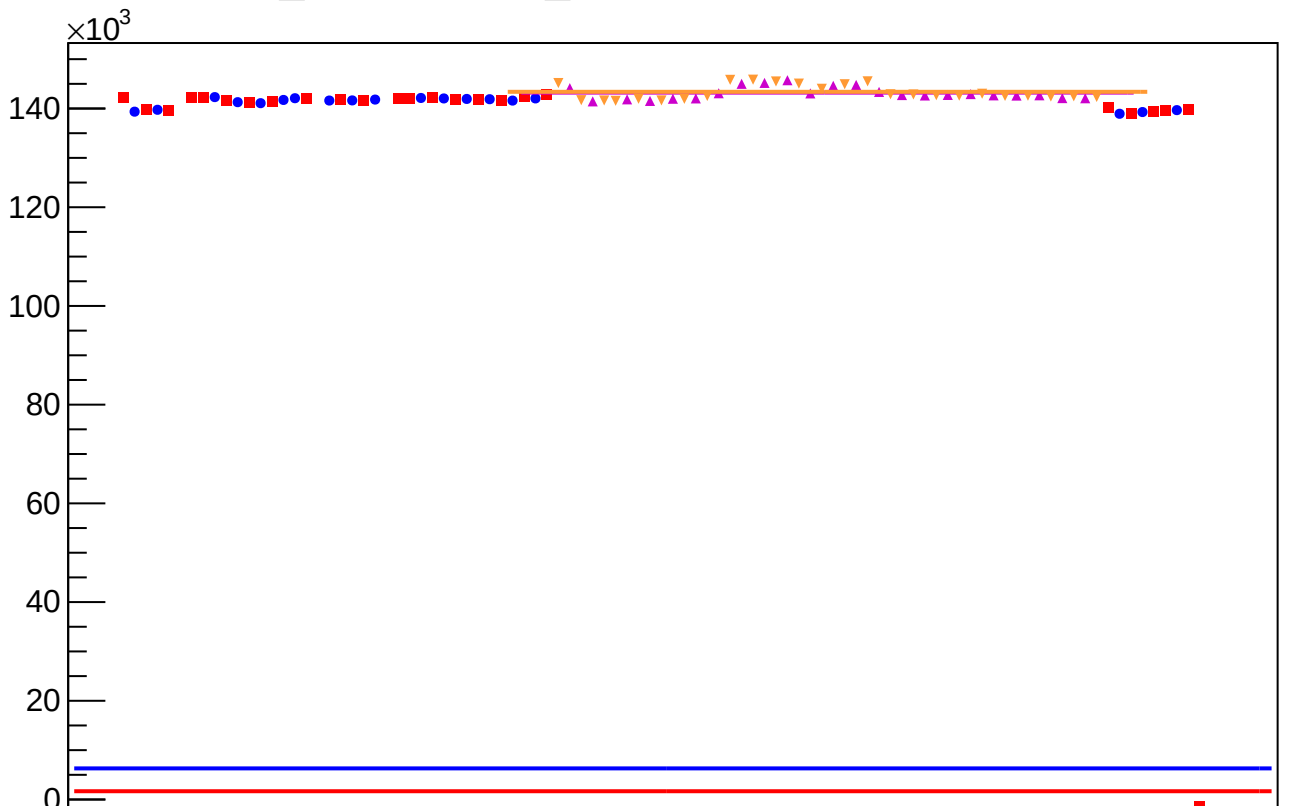
Left: 224.528+/-0.026 $\chi^2$/NDF: 1606118.8/47

Right: 12.404+/-0.004 $\chi^2$/NDF: 33011060.5/45

In: 21.397+/-0.007 $\chi^2$/NDF:45754585.7/42

Out: 16.197+/-0.005 $\chi^2$/NDF:51412394.0/50

All: 18.153+/-0.004 $\chi^2$/NDF: 97503295.2/93




Right In: 6302.856+/-0.016 $\chi^2$/NDF: 4651653638676.9/19

Left Out: 143386.915+/-0.054 $\chi^2$/NDF:784001363.1/24

Right Out: 1675.602+/-0.010 $\chi^2$/NDF: 5657233434594.7/25

Left In: 143221.802+/-0.055 $\chi^2$/NDF:540234973.1/22

Left: 143306.102+/-0.038 $\chi^2$/NDF: 1328866261.9/4

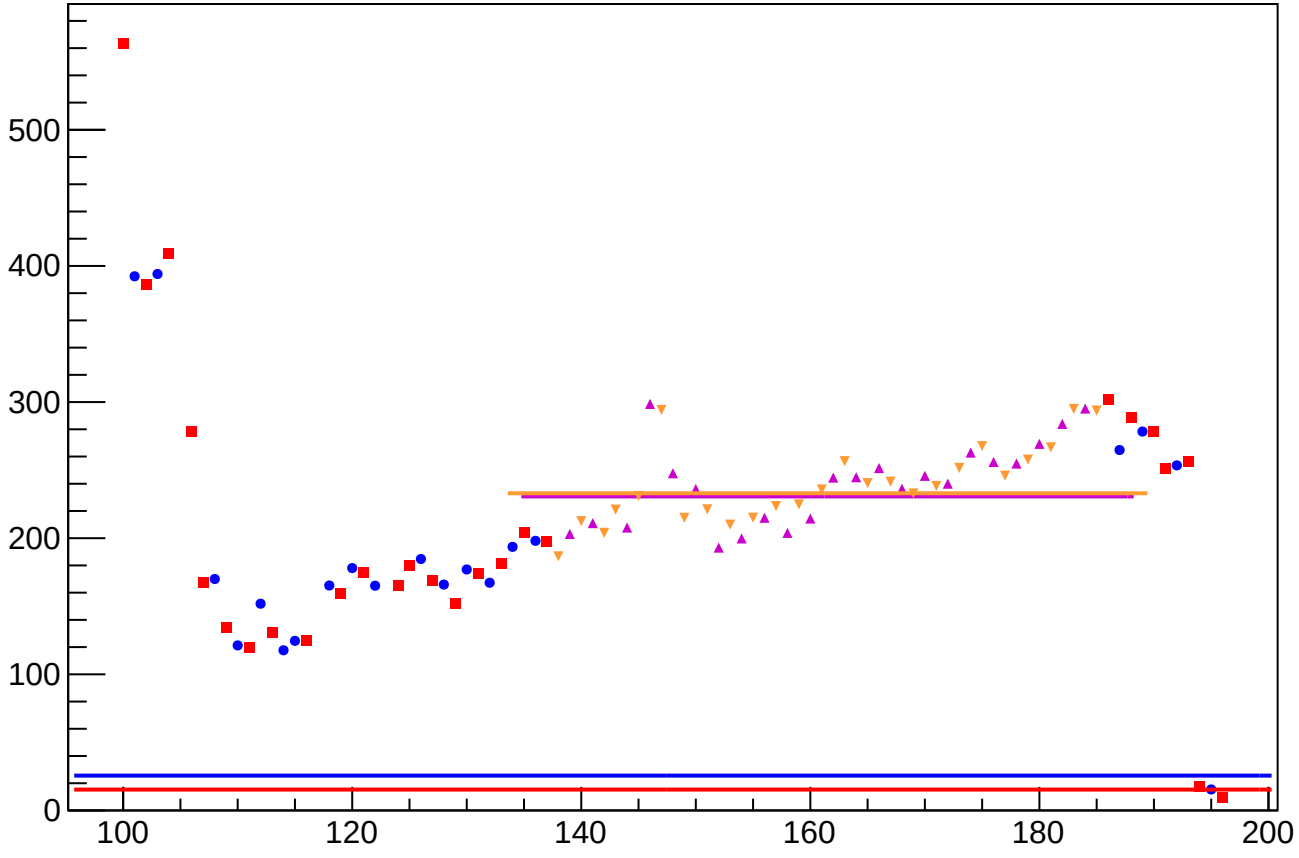
Right: 3011.200+/-0.009 $\chi^2$/NDF: 10368375485973

In: 17048.704+/-0.015 $\chi^2$/NDF:10398631766376.

Out: 6606.226+/-0.010 $\chi^2$/NDF:12383752025952.

All: 9720.595+/-0.008 $\chi^2$/NDF: 2310671354

# yield_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 25.594+/-0.011 $\chi^2$/NDF: 13775405.6/19

Left Out: 233.007+/-0.038 $\chi^2$/NDF:446120.9/24

Right Out: 15.334+/-0.007 $\chi^2$/NDF: 17346531.4/25

Left In: 230.693+/-0.039 $\chi^2$/NDF:512017.9/22

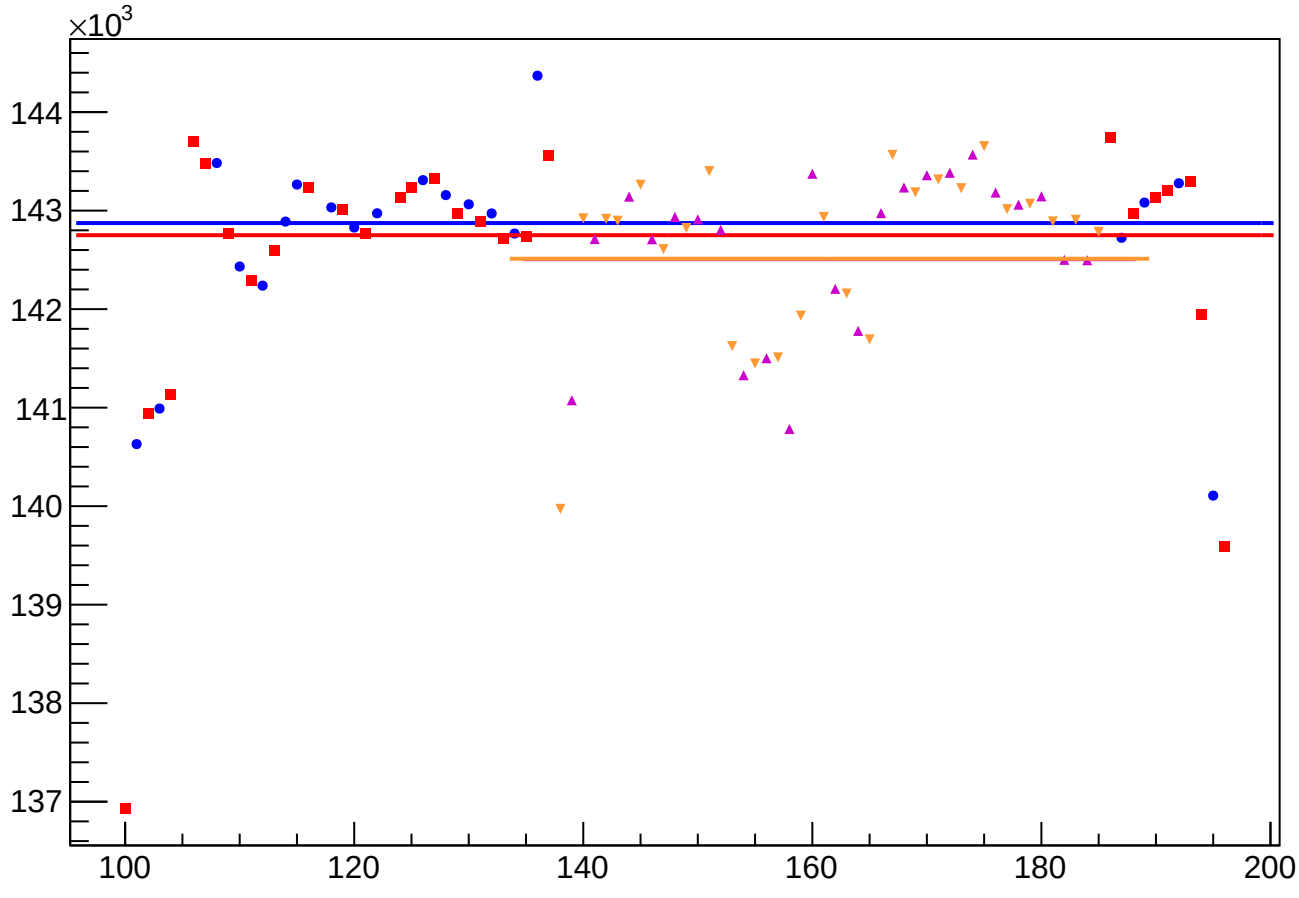
Left: 231.874+/-0.027 $\chi^2$/NDF: 959957.6/47

Right: 18.295+/-0.006 $\chi^2$/NDF: 31706866.0/45

In: 41.690+/-0.011 $\chi^2$/NDF:40076171.0/42

Out: 22.907+/-0.007 $\chi^2$/NDF:49530021.9/50

All: 28.509+/-0.006 $\chi^2$/NDF: 91704881.5/93




Right In: 142873.759+/-0.064 $\chi^2$/NDF: 196234439.3/19

Left Out: 142511.381+/-0.051 $\chi^2$/NDF:338087157.2/24

Right Out: 142750.450+/-0.058 $\chi^2$/NDF: 159165763.0/25

Left In: 142507.563+/-0.052 $\chi^2$/NDF:269272097.4/22

Left: 142509.527+/-0.037 $\chi^2$/NDF: 607361986.5/47

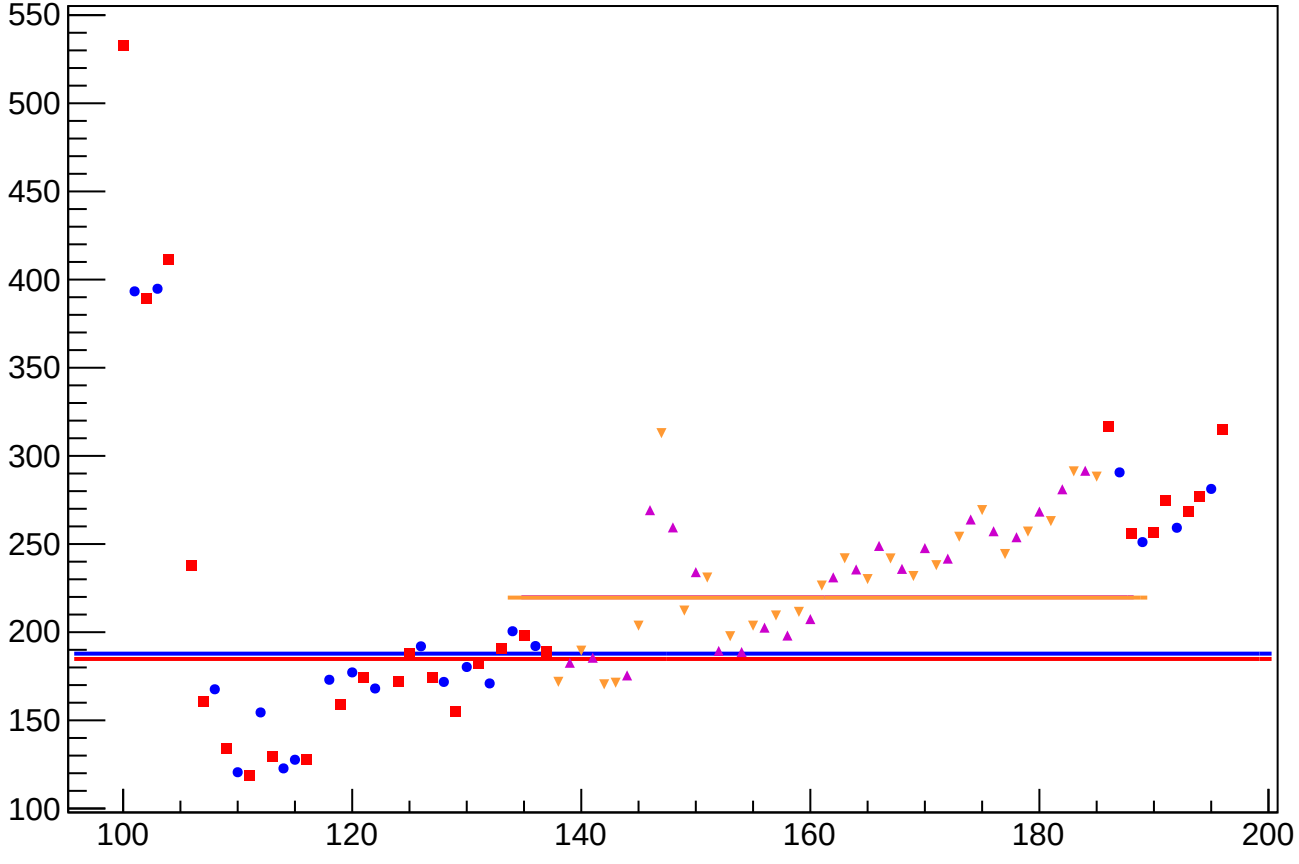
Right: 142805.811+/-0.043 $\chi^2$/NDF: 357454496.7/4

In: 142654.904+/-0.041 $\chi^2$/NDF:485156506.6/42

Out: 142616.114+/-0.038 $\chi^2$/NDF:506917310.0/50

All: 142634.349+/-0.028 $\chi^2$/NDF: 99255969

# yield_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 187.827+/-0.045 $\chi^2$/NDF: 1573541.6/19

Left Out: 219.618+/-0.036 $\chi^2$/NDF:902026.4/24

Right Out: 184.816+/-0.041 $\chi^2$/NDF: 2511046.4/25

Left In: 219.813+/-0.037 $\chi^2$/NDF:805501.8/22

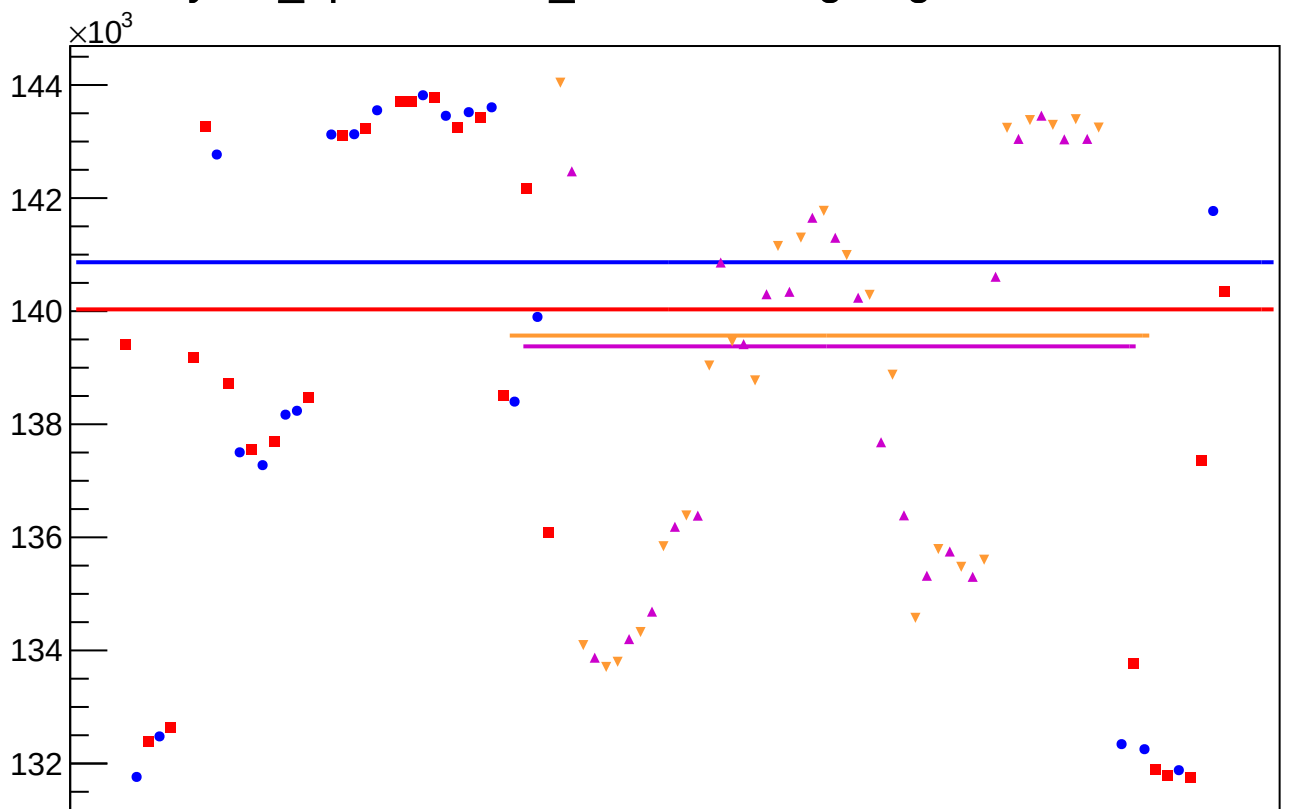
Left: 219.713+/-0.026 $\chi^2$/NDF: 1707542.5/47

Right: 186.168+/-0.030 $\chi^2$/NDF: 4087037.5/45

In: 206.943+/-0.029 $\chi^2$/NDF:2678878.8/42

Out: 204.372+/-0.027 $\chi^2$/NDF:3822666.6/50

All: 205.581+/-0.020 $\chi^2$/NDF: 6505816.6/93




Right In: 140865.372+/-0.092 $\chi^2$/NDF: 1685320463.3/19

Left Out: 139568.750+/-0.070 $\chi^2$/NDF:2586638805.4/24

Right Out: 140031.720+/-0.089 $\chi^2$/NDF: 2035434242.9/25

Left In: 139377.582+/-0.073 $\chi^2$/NDF:1921434868.2/22

Left: 139477.077+/-0.051 $\chi^2$/NDF: 4511647582.8/4

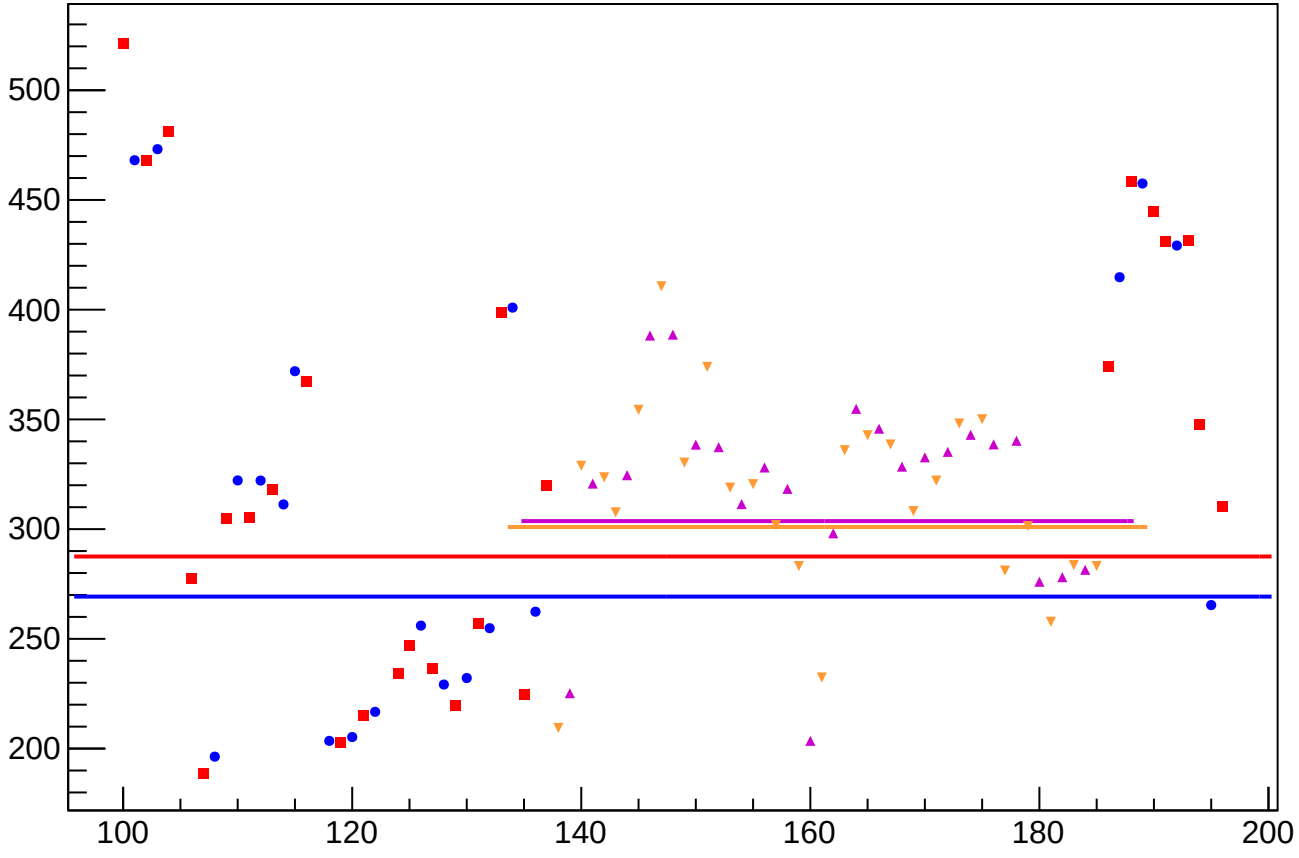
Right: 140435.435+/-0.064 $\chi^2$/NDF: 3763522728.2/

In: 139955.432+/-0.057 $\chi^2$/NDF:3768296748.9/42

Out: 139746.486+/-0.055 $\chi^2$/NDF:4638853890.8/5

All: 139847.066+/-0.040 $\chi^2$/NDF: 84141070

# yield_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 269.252+/-0.065 $\chi^2$/NDF: 1479002.9/19

Left Out: 300.964+/-0.050 $\chi^2$/NDF:876889.9/24

Right Out: 287.531+/-0.063 $\chi^2$/NDF: 1808723.8/25

Left In: 303.658+/-0.052 $\chi^2$/NDF:976252.9/22

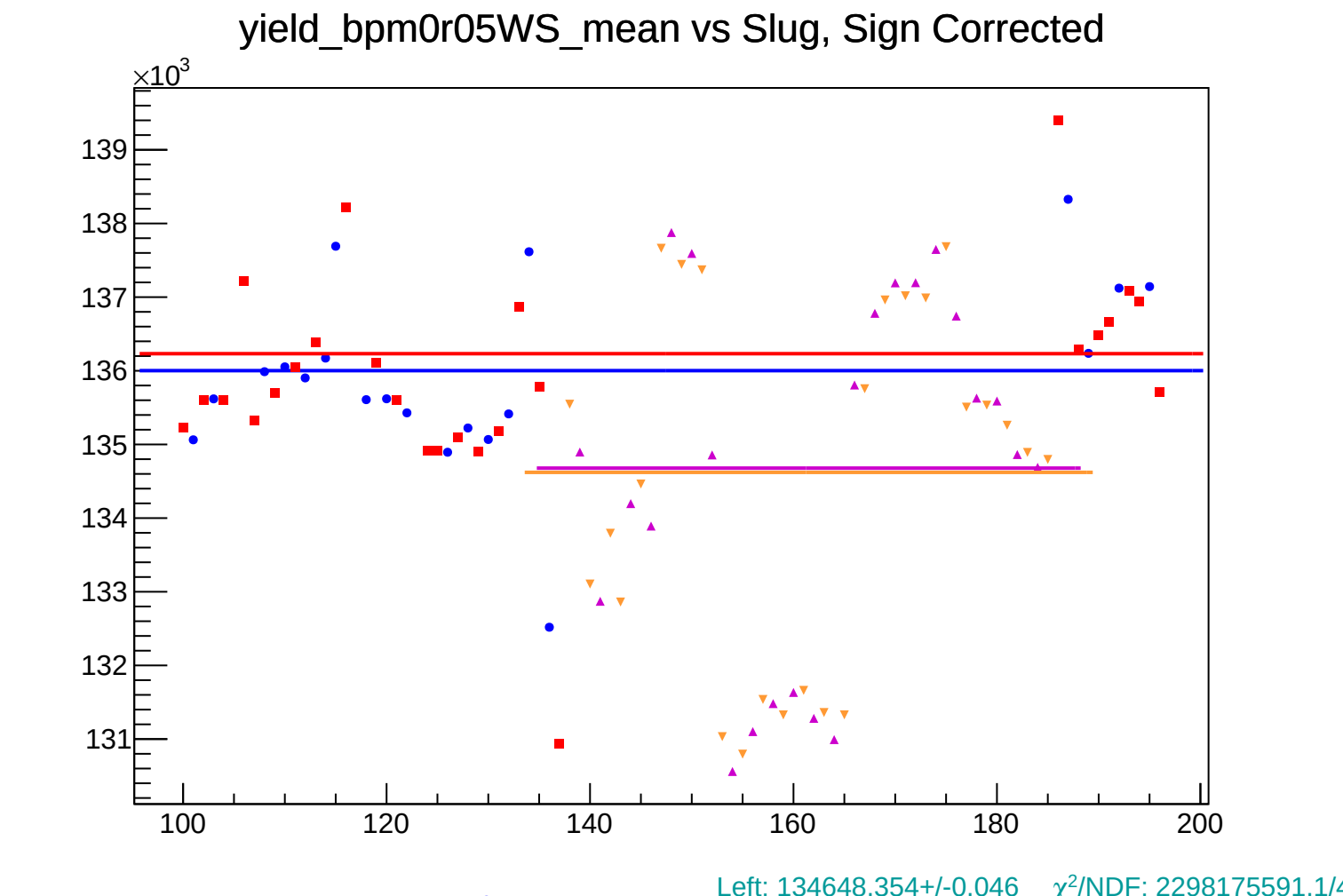
Left: 302.256+/-0.036 $\chi^2$/NDF: 1854562.6/47

Right: 278.679+/-0.045 $\chi^2$/NDF: 3328848.1/45

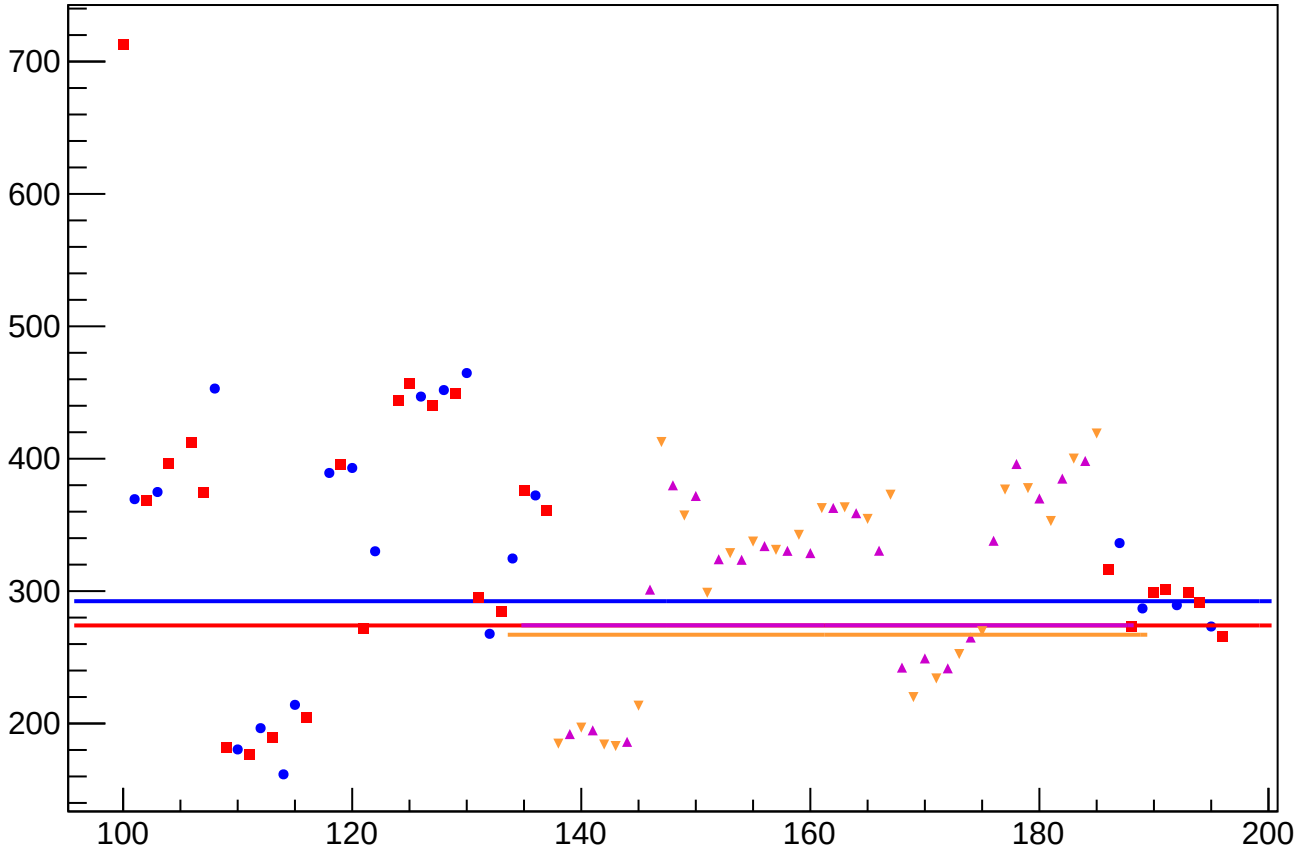
In: 290.295+/-0.040 $\chi^2$/NDF:2628039.9/42

Out: 295.807+/-0.039 $\chi^2$/NDF:2713868.8/50

All: 293.154+/-0.028 $\chi^2$/NDF: 5351590.0/93


yield_bpm0r05WS_mean vs Slug, Sign Corrected
×10^3
139
138
137
136
135
134
133
132
131
100
120
140
160
180
200
Right In: 136001.991+/-0.099 χ²/NDF: 146431839.5/19
Left Out: 134620.993+/-0.064 χ²/NDF:1201492843.7/24
Right Out: 136232.128+/-0.084 χ²/NDF: 154713789.7/25
Left In: 134678.497+/-0.067 χ²/NDF:1096295429.9/22
Left: 134648.354+/-0.046 χ²/NDF: 2298175591.1/4
Right: 136135.617+/-0.064 χ²/NDF: 304297710.0/4
In: 135094.679+/-0.055 χ²/NDF:1365810666.4/42
Out: 135210.151+/-0.051 χ²/NDF:1589878144.3/5
All: 135157.439+/-0.037 χ²/NDF: 29580510

# yield_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 292.385+/-0.070 $\chi^2$/NDF: 1459081.5/19

Left Out: 267.053+/-0.045 $\chi^2$/NDF:2843307.1/24

Right Out: 274.062+/-0.059 $\chi^2$/NDF: 1728702.3/25

Left In: 274.177+/-0.047 $\chi^2$/NDF:2236755.2/22

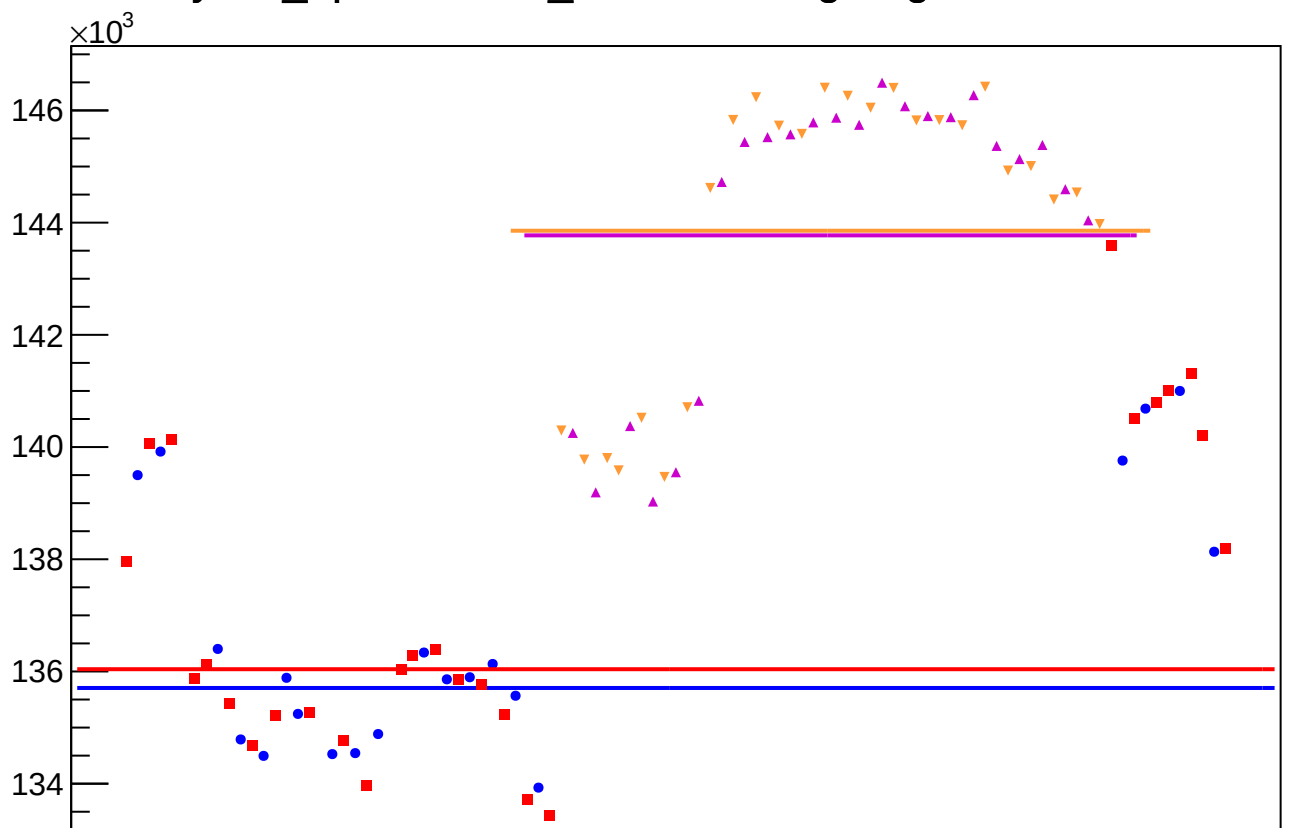
Left: 270.443+/-0.033 $\chi^2$/NDF: 5091950.9/47

Right: 281.746+/-0.045 $\chi^2$/NDF: 3227746.7/45

In: 279.903+/-0.039 $\chi^2$/NDF:3742428.5/42

Out: 269.616+/-0.036 $\chi^2$/NDF:4580853.1/50

All: 274.312+/-0.026 $\chi^2$/NDF: 8360773.2/93




Right In: 135705.890+/-0.052 $\chi^2$/NDF: 1154847569.2/19

Left Out: 143855.894+/-0.048 $\chi^2$/NDF:3130204188.4/24

Right Out: 136040.372+/-0.048 $\chi^2$/NDF: 1955804110.8/25

Left In: 143773.112+/-0.051 $\chi^2$/NDF:2803362782.2/22

Left: 143816.659+/-0.035 $\chi^2$/NDF: 5934957242.3/4

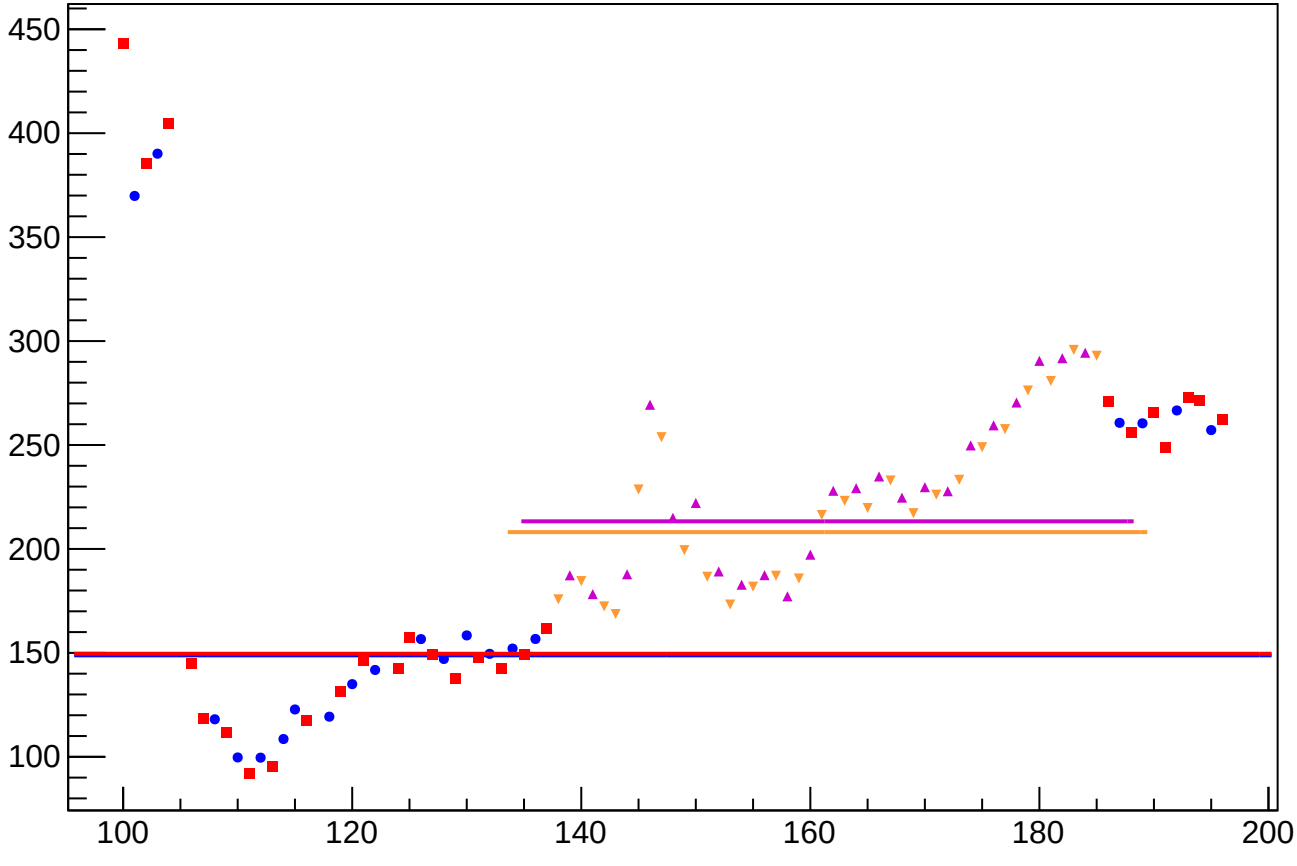
Right: 135886.642+/-0.035 $\chi^2$/NDF: 3133087605.9/

In: 139817.158+/-0.036 $\chi^2$/NDF:16266240437.8/4

Out: 139910.687+/-0.034 $\chi^2$/NDF:18284291021.0

All: 139867.027+/-0.025 $\chi^2$/NDF: 34554061

# yield_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 148.828+/-0.037 $\chi^2$/NDF: 2434901.0/19

Left Out: 208.100+/-0.034 $\chi^2$/NDF:993011.6/24

Right Out: 149.582+/-0.034 $\chi^2$/NDF: 3472431.9/25

Left In: 213.288+/-0.036 $\chi^2$/NDF:865525.4/22

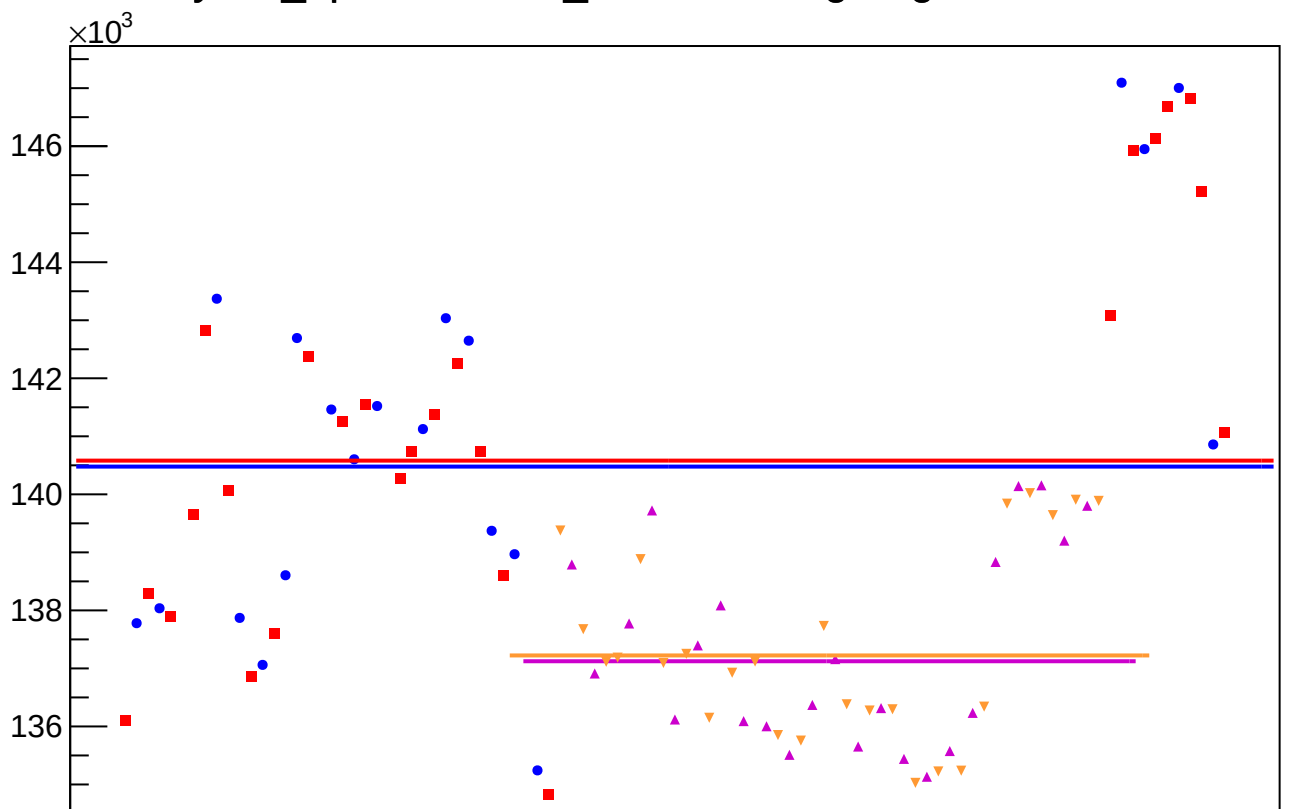
Left: 210.559+/-0.025 $\chi^2$/NDF: 1869455.6/47

Right: 149.235+/-0.025 $\chi^2$/NDF: 5907561.0/45

In: 181.678+/-0.026 $\chi^2$/NDF:4872053.4/42

Out: 178.561+/-0.024 $\chi^2$/NDF:5945287.0/50

All: 180.016+/-0.018 $\chi^2$/NDF: 10825183.6/93




Right In: 140478.150+/-0.058 $\chi^2$/NDF: 2792186694.1/19

Left Out: 137223.651+/-0.049 $\chi^2$/NDF:894565924.0/24

Right Out: 140581.074+/-0.054 $\chi^2$/NDF: 3237707752.7/25

Left In: 137123.557+/-0.051 $\chi^2$/NDF:860635149.0/22

Left: 137175.466+/-0.035 $\chi^2$/NDF: 1757205976.7/4

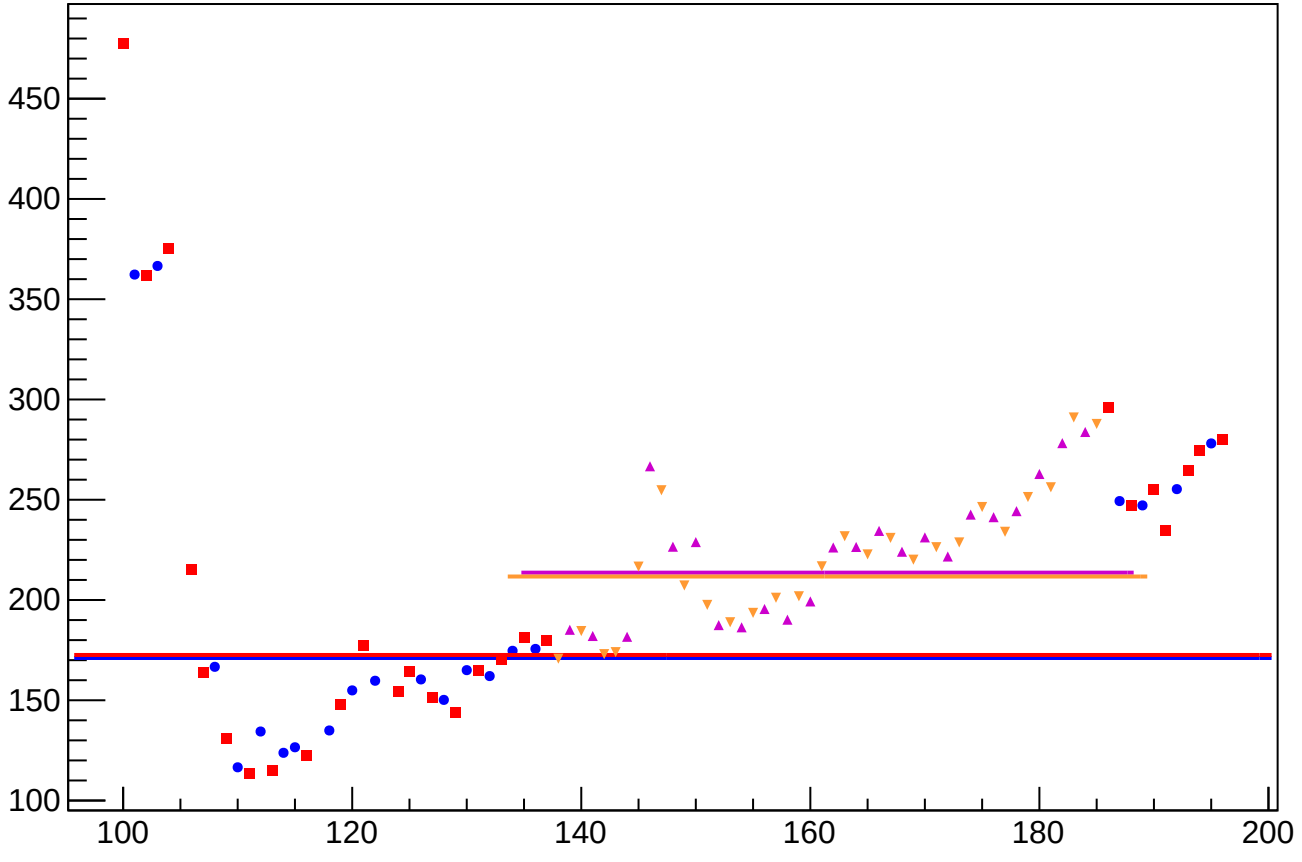
Right: 140533.678+/-0.040 $\chi^2$/NDF: 6031567318.9/

In: 138570.566+/-0.038 $\chi^2$/NDF:5525900497.8/42

Out: 138741.342+/-0.036 $\chi^2$/NDF:6250457498.8/5

All: 138660.709+/-0.026 $\chi^2$/NDF: 11786804

# yield_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 171.085+/-0.041 $\chi^2$/NDF: 1704113.4/19

Left Out: 211.714+/-0.035 $\chi^2$/NDF:675587.4/24

Right Out: 172.589+/-0.038 $\chi^2$/NDF: 2548310.8/25

Left In: 213.641+/-0.036 $\chi^2$/NDF:621332.1/22

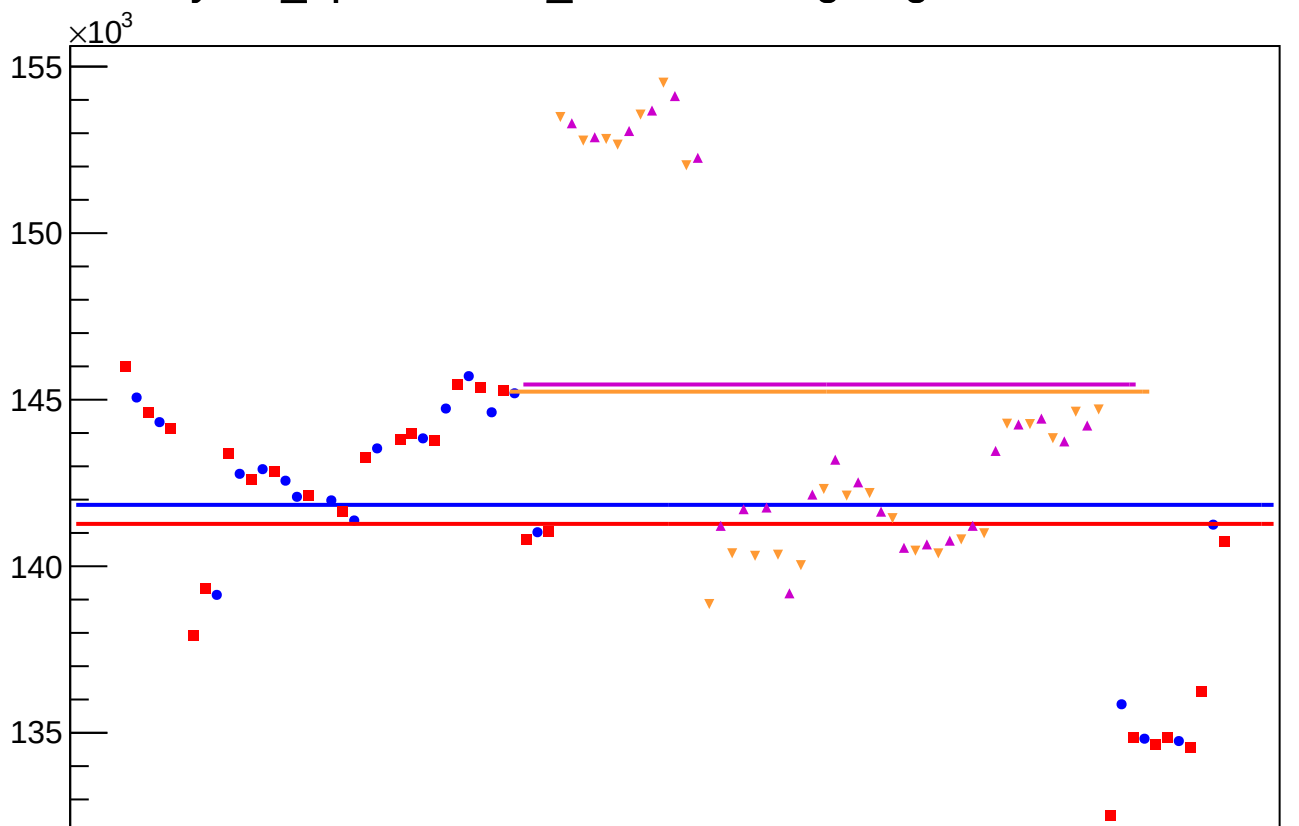
Left: 212.641+/-0.025 $\chi^2$/NDF: 1298405.5/47

Right: 171.896+/-0.028 $\chi^2$/NDF: 4253138.4/45

In: 195.284+/-0.027 $\chi^2$/NDF:2928316.4/42

Out: 194.028+/-0.026 $\chi^2$/NDF:3799194.4/50

All: 194.621+/-0.019 $\chi^2$/NDF: 6728641.8/93




Right In: 141843.310+/-0.060 $\chi^2$/NDF: 2667624249.8/19

Left Out: 145242.337+/-0.050 $\chi^2$/NDF:13032998081.1/24

Right Out: 141272.023+/-0.054 $\chi^2$/NDF: 4361728624.8/25

Left In: 145456.704+/-0.052 $\chi^2$/NDF:11073020116.4/22

Left: 145345.374+/-0.036 $\chi^2$/NDF: 24114988758.0

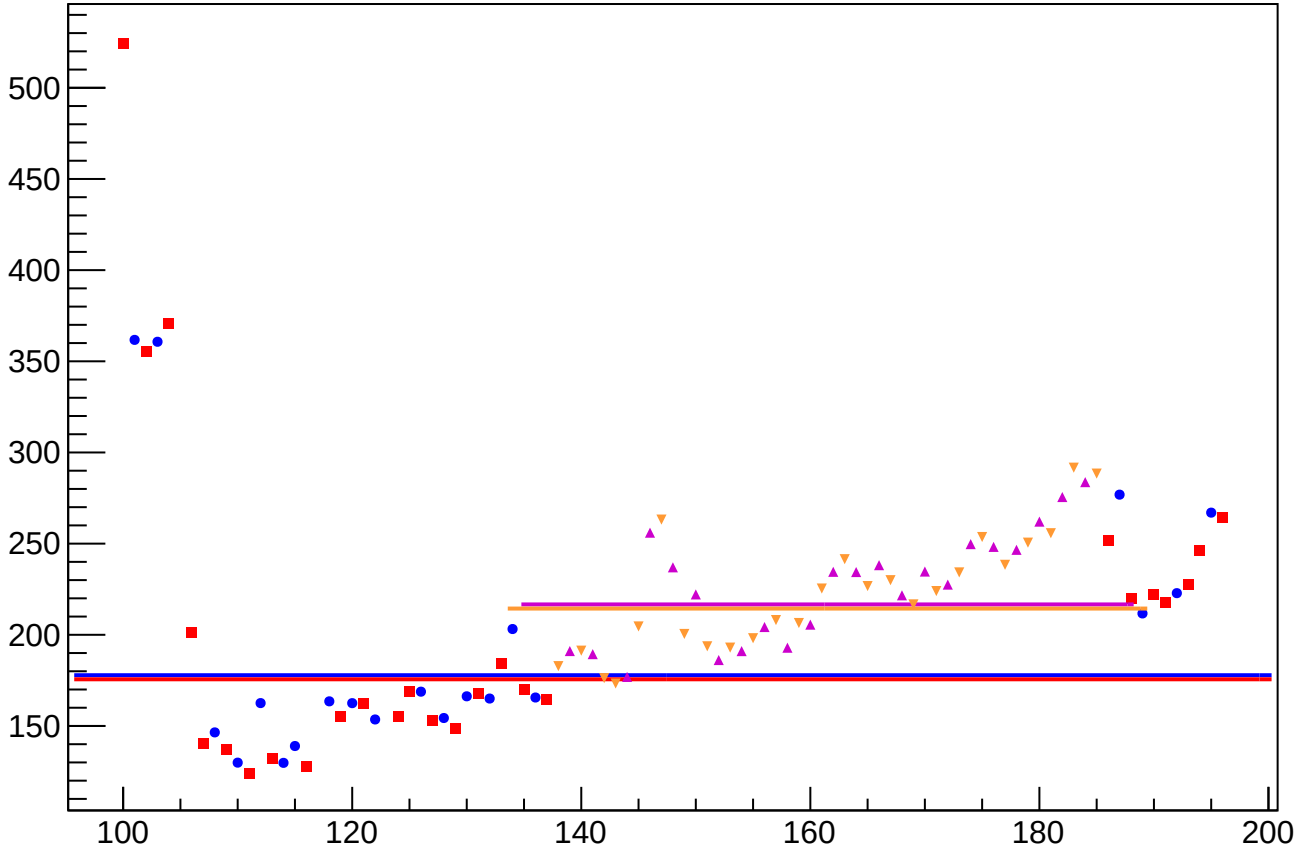
Right: 141527.604+/-0.040 $\chi^2$/NDF: 7079404223.4/

In: 143922.008+/-0.039 $\chi^2$/NDF:15825072111.2/

Out: 143425.072+/-0.037 $\chi^2$/NDF:20325022811.1

All: 143656.612+/-0.027 $\chi^2$/NDF: 362362669

# yield_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 177.833+/-0.042 $\chi^2$/NDF: 1266634.9/19

Left Out: 214.391+/-0.035 $\chi^2$/NDF:643384.3/24

Right Out: 175.599+/-0.038 $\chi^2$/NDF: 1793371.3/25

Left In: 216.654+/-0.036 $\chi^2$/NDF:587166.8/22

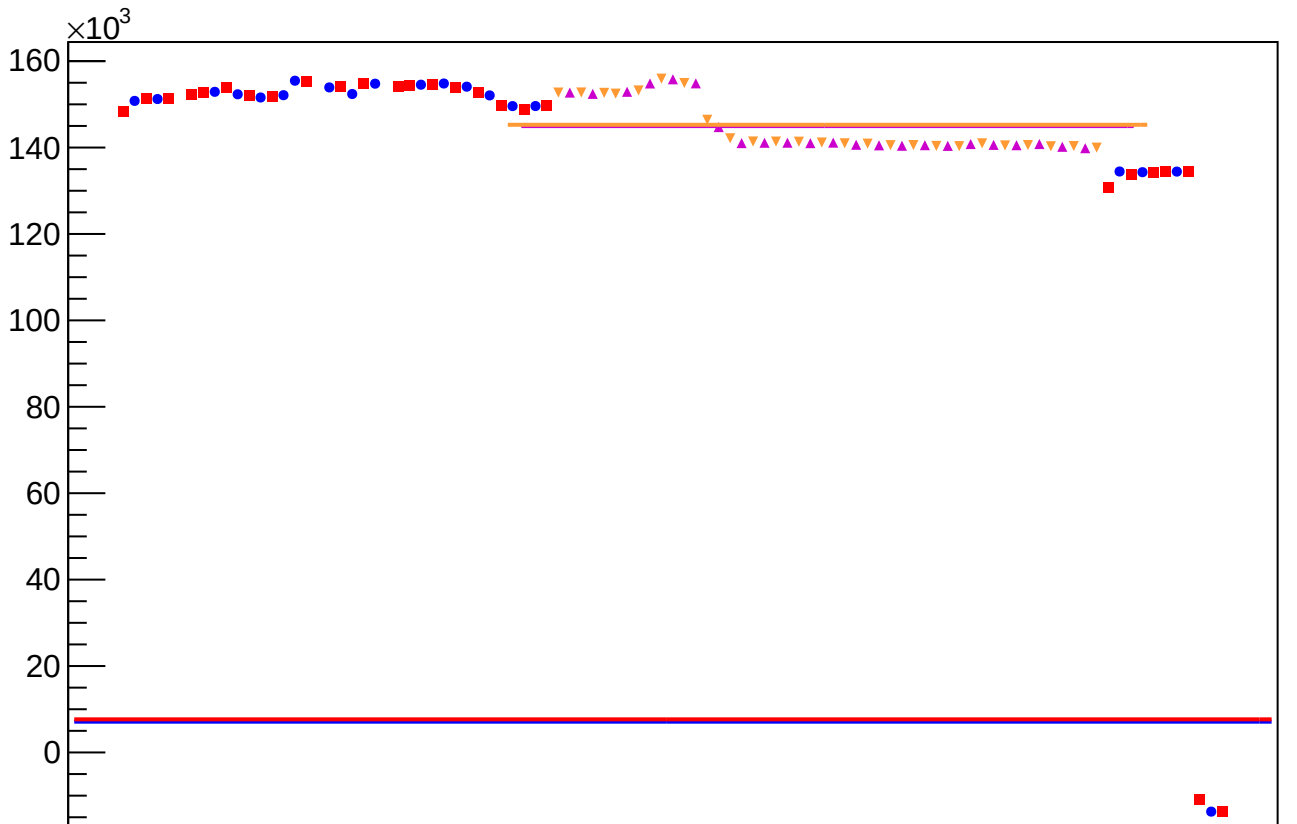
Left: 215.479+/-0.025 $\chi^2$/NDF: 1232550.4/47

Right: 176.598+/-0.028 $\chi^2$/NDF: 3061536.4/45

In: 200.166+/-0.028 $\chi^2$/NDF:2335012.5/42

Out: 196.636+/-0.026 $\chi^2$/NDF:2996233.5/50

All: 198.280+/-0.019 $\chi^2$/NDF: 5339943.6/93




Right In: 7123.584+/-0.024 $\chi^2$/NDF: 5218569965159.4/19

Left Out: 145269.857+/-0.049 $\chi^2$/NDF:13706269279.5/24

Right Out: 7662.098+/-0.021 $\chi^2$/NDF: 6333931819673.5/25

Left In: 144966.398+/-0.051 $\chi^2$/NDF:13154547043.3/22

Left: 145123.606+/-0.036 $\chi^2$/NDF: 26879011850.5

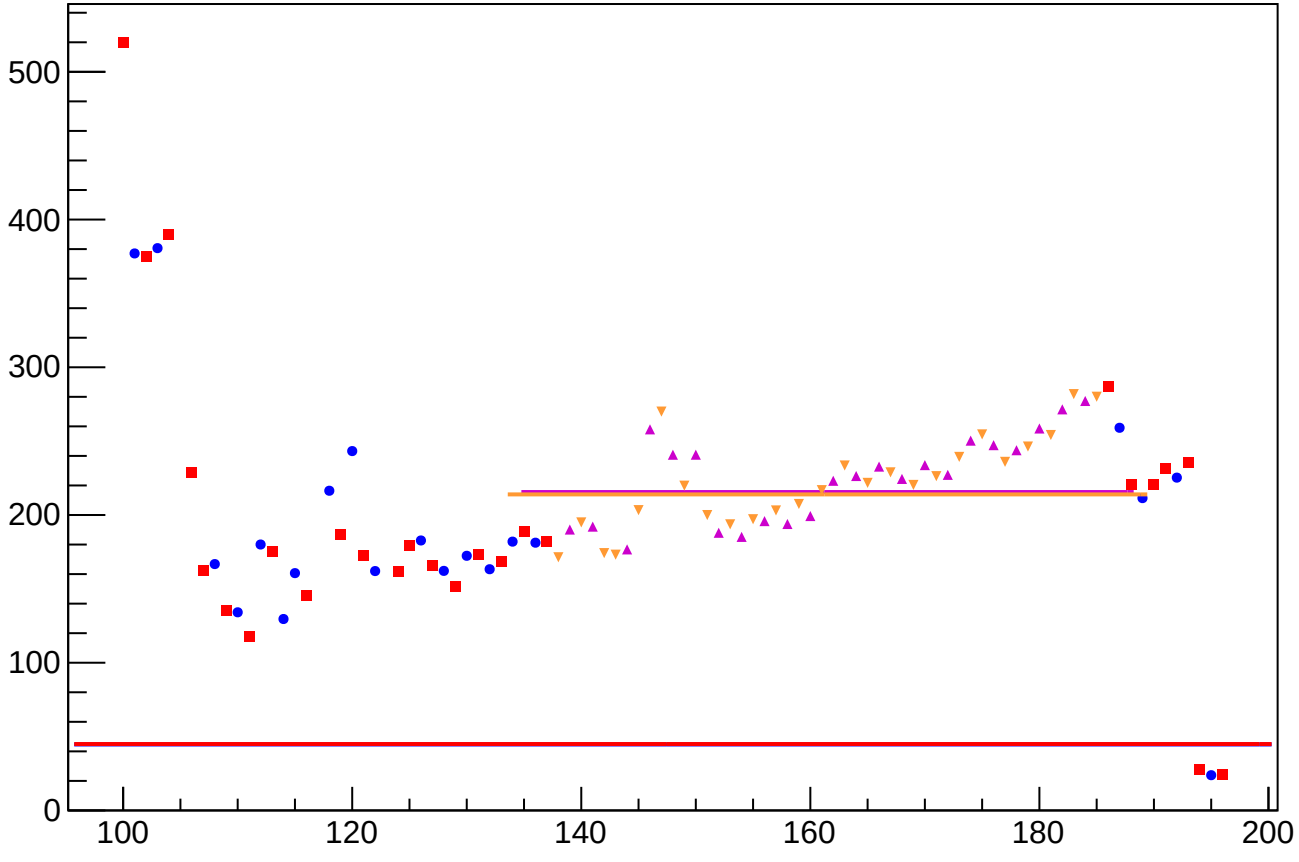
Right: 7421.321+/-0.016 $\chi^2$/NDF: 11552782903984

In: 31751.659+/-0.022 $\chi^2$/NDF:11183891825614.

Out: 29545.326+/-0.020 $\chi^2$/NDF:12876438734418

All: 30544.712+/-0.015 $\chi^2$/NDF: 240660151

# yield_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 44.678+/-0.017 $\chi^2$/NDF: 11424516.6/19

Left Out: 213.951+/-0.035 $\chi^2$/NDF:650607.8/24

Right Out: 44.958+/-0.015 $\chi^2$/NDF: 12913476.7/25

Left In: 215.539+/-0.036 $\chi^2$/NDF:600575.7/22

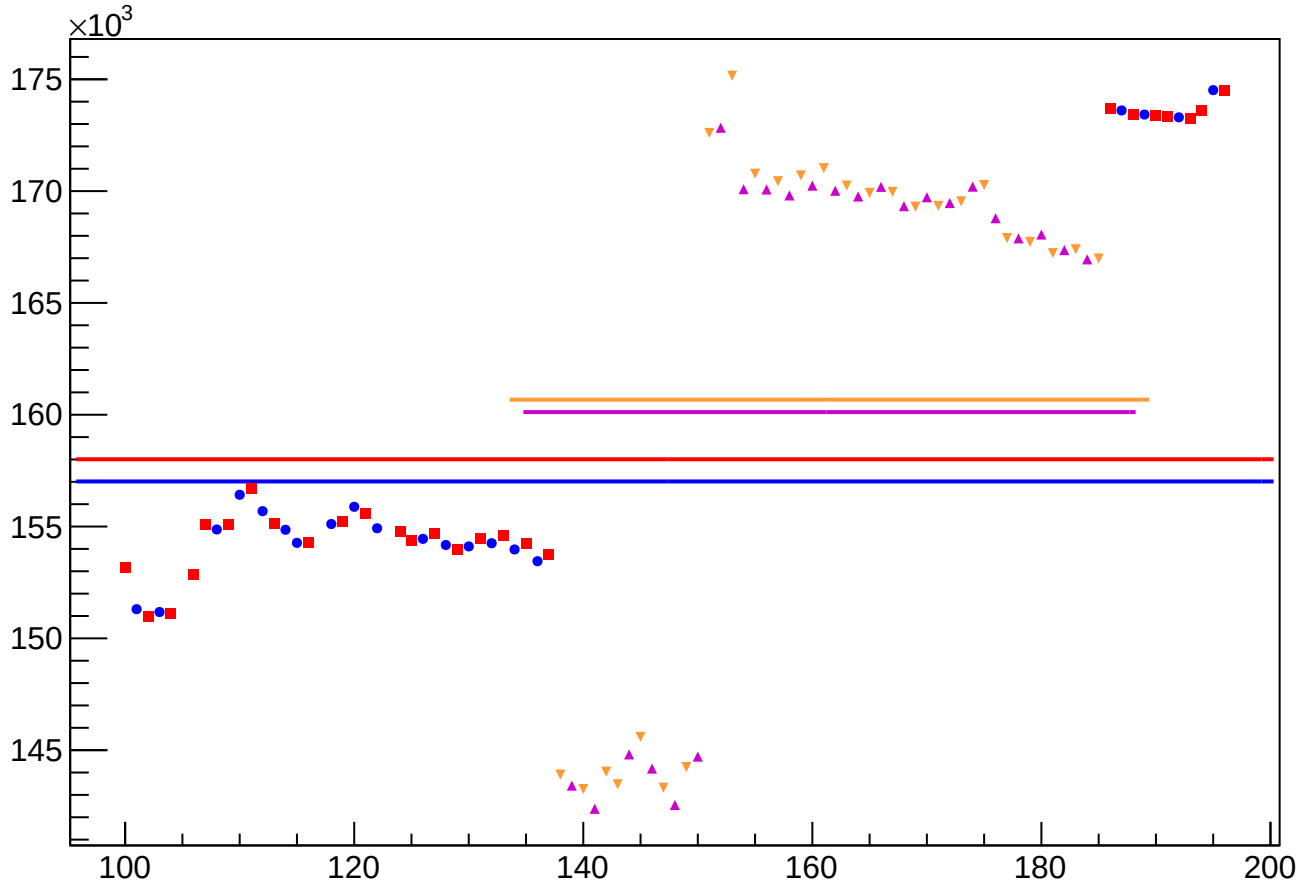
Left: 214.716+/-0.025 $\chi^2$/NDF: 1252179.3/47

Right: 44.833+/-0.011 $\chi^2$/NDF: 24338144.7/45

In: 75.206+/-0.015 $\chi^2$/NDF:30315280.5/42

Out: 71.832+/-0.014 $\chi^2$/NDF:33257257.4/50

All: 73.360+/-0.010 $\chi^2$/NDF: 63599115.5/93




Right In: 157016.900+/-0.061 $\chi^2$/NDF: 10504628836.6/19

Left Out: 160674.818+/-0.047 $\chi^2$/NDF:74155131898.4/24

Right Out: 158008.539+/-0.056 $\chi^2$/NDF: 16537406835.2/25

Left In: 160117.460+/-0.049 $\chi^2$/NDF:66553191753.2/22

Left: 160407.689+/-0.034 $\chi^2$/NDF: 140774615101.

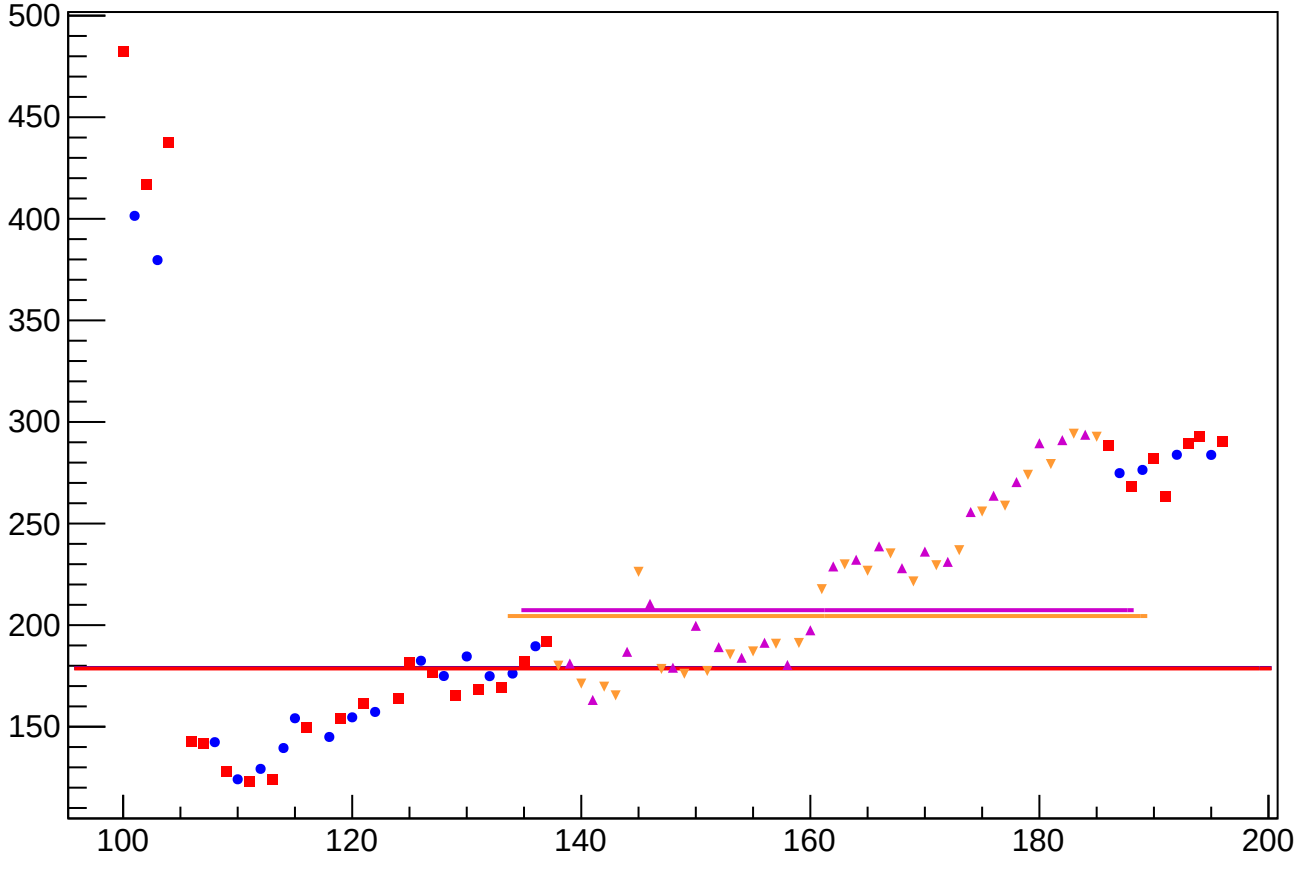
Right: 157559.695+/-0.041 $\chi^2$/NDF: 27185949758.4

In: 158893.266+/-0.038 $\chi^2$/NDF:78613326327.9/4

Out: 159553.138+/-0.036 $\chi^2$/NDF:92024144622.5

All: 159244.061+/-0.026 $\chi^2$/NDF: 17079422

# yield_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 178.908+/-0.043 $\chi^2$/NDF: 1841905.7/19

Left Out: 204.476+/-0.034 $\chi^2$/NDF:1073199.0/24

Right Out: 178.678+/-0.039 $\chi^2$/NDF: 2706807.7/25

Left In: 207.368+/-0.035 $\chi^2$/NDF:956644.0/22

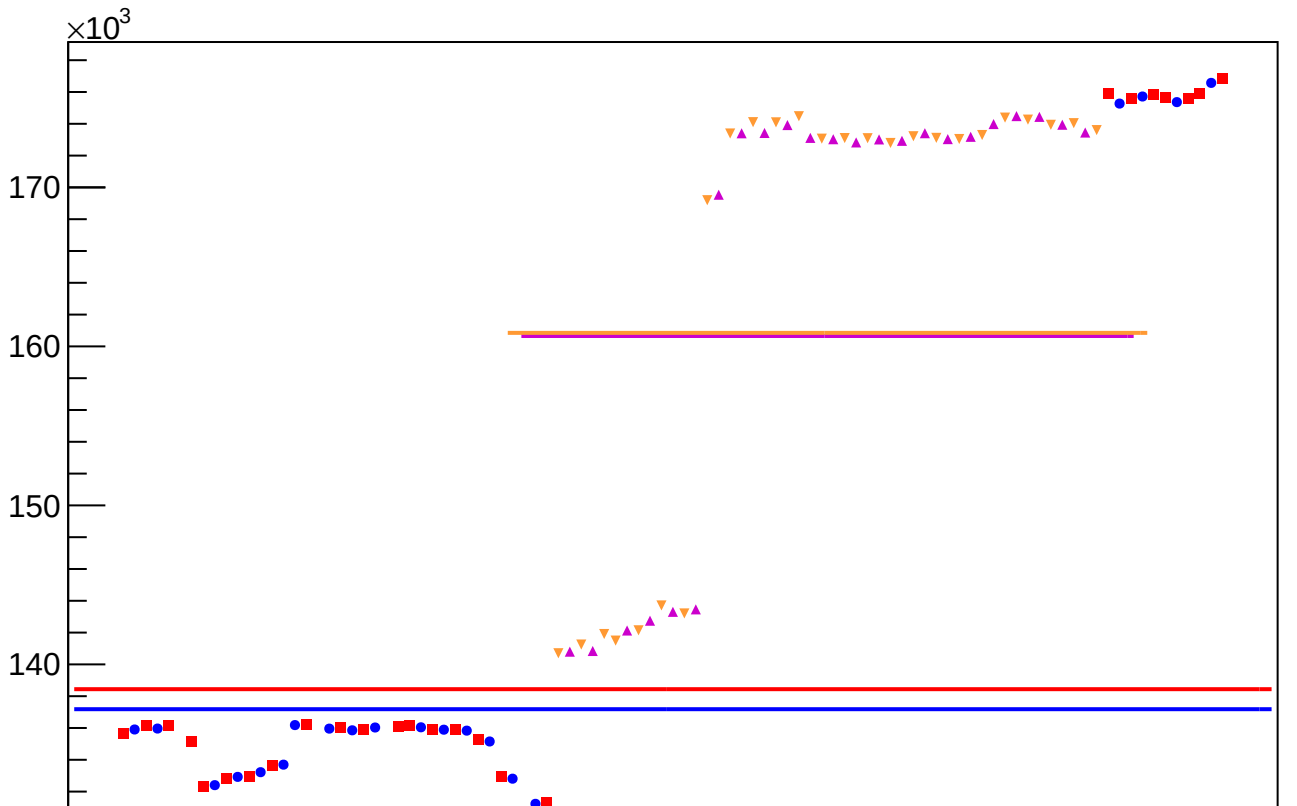
Left: 205.862+/-0.024 $\chi^2$/NDF: 2033412.9/47

Right: 178.782+/-0.029 $\chi^2$/NDF: 4548728.8/45

In: 196.131+/-0.027 $\chi^2$/NDF:3060671.9/42

Out: 193.623+/-0.026 $\chi^2$/NDF:4029333.2/50

All: 194.798+/-0.019 $\chi^2$/NDF: 7094534.4/93




Right In: 137181.916+/-0.049 $\chi^2$/NDF: 47918055207.9/19

Left Out: 160851.077+/-0.048 $\chi^2$/NDF:99202825178.3/24

Right Out: 138440.832+/-0.045 $\chi^2$/NDF: 78174306001.7/25

Left In: 160654.189+/-0.051 $\chi^2$/NDF:90149721861.0/22

Left: 160756.959+/-0.035 $\chi^2$/NDF: 189360447861.

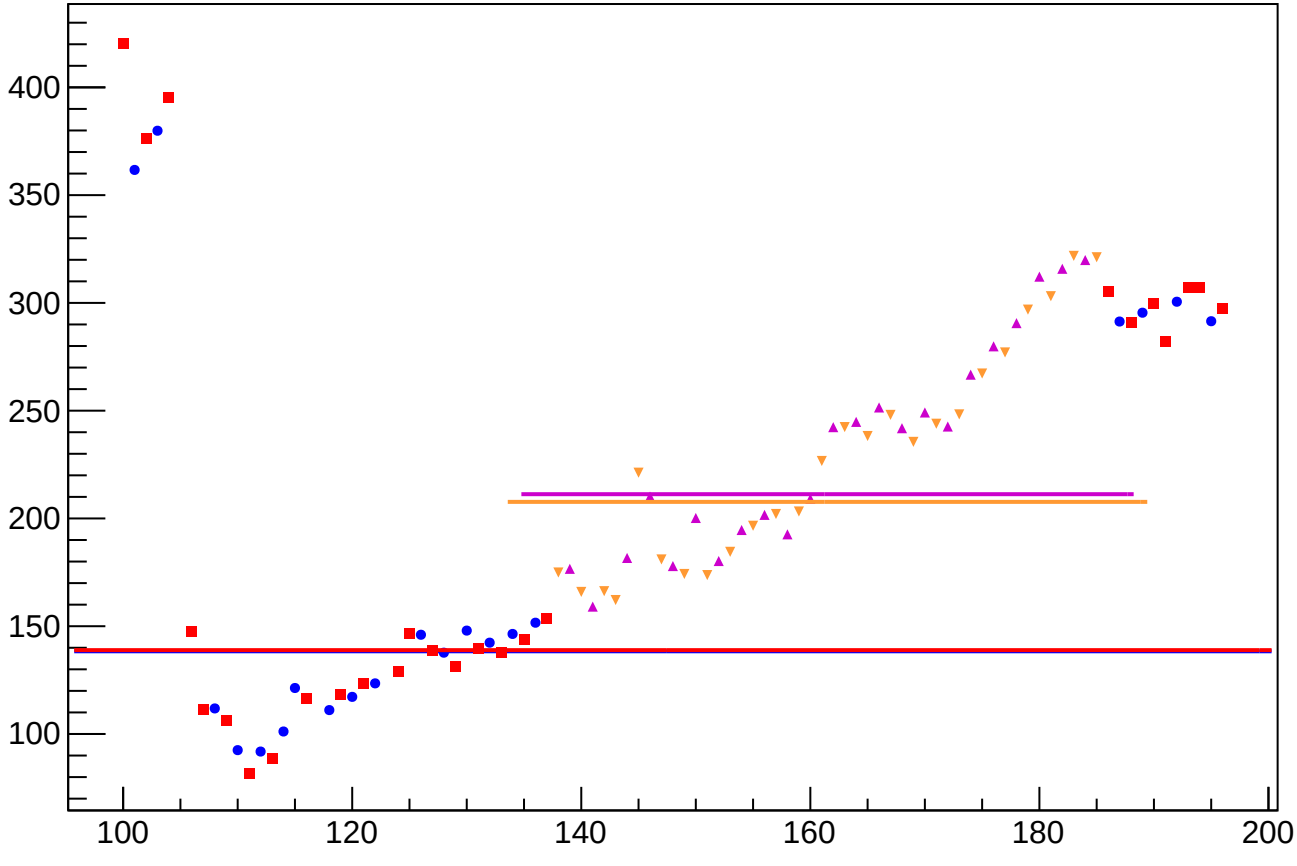
Right: 137858.598+/-0.033 $\chi^2$/NDF: 12644691988

In: 148543.582+/-0.035 $\chi^2$/NDF:249063047591.7

Out: 148939.788+/-0.033 $\chi^2$/NDF:291188724748.

All: 148753.618+/-0.024 $\chi^2$/NDF: 54031890

# yield_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 138.370+/-0.035 $\chi^2$/NDF: 3025633.0/19

Left Out: 207.689+/-0.034 $\chi^2$/NDF:1500711.5/24

Right Out: 138.900+/-0.032 $\chi^2$/NDF: 4460113.9/25

Left In: 211.254+/-0.036 $\chi^2$/NDF:1305730.5/22

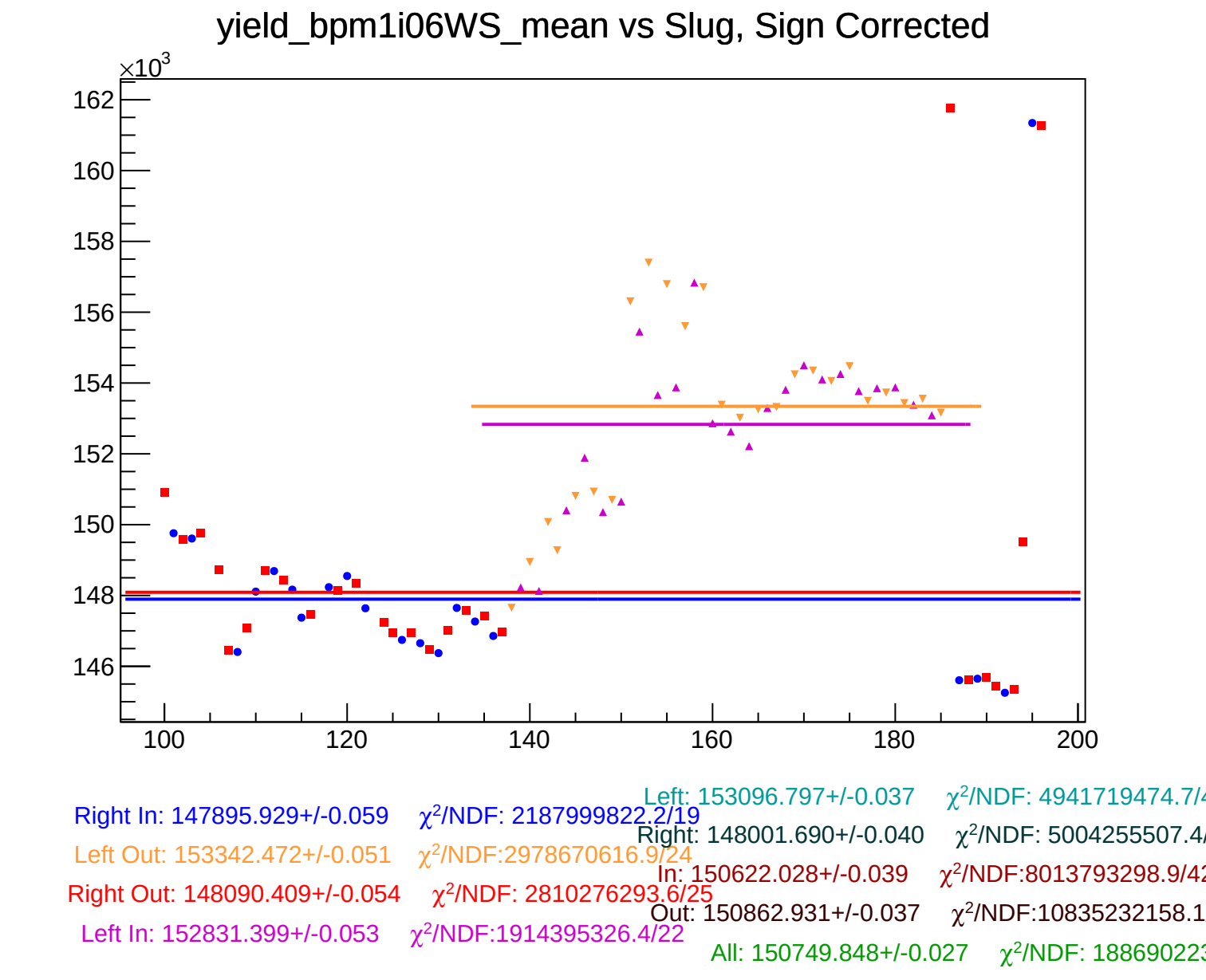
Left: 209.393+/-0.025 $\chi^2$/NDF: 2811623.6/47

Right: 138.655+/-0.024 $\chi^2$/NDF: 7485872.9/45

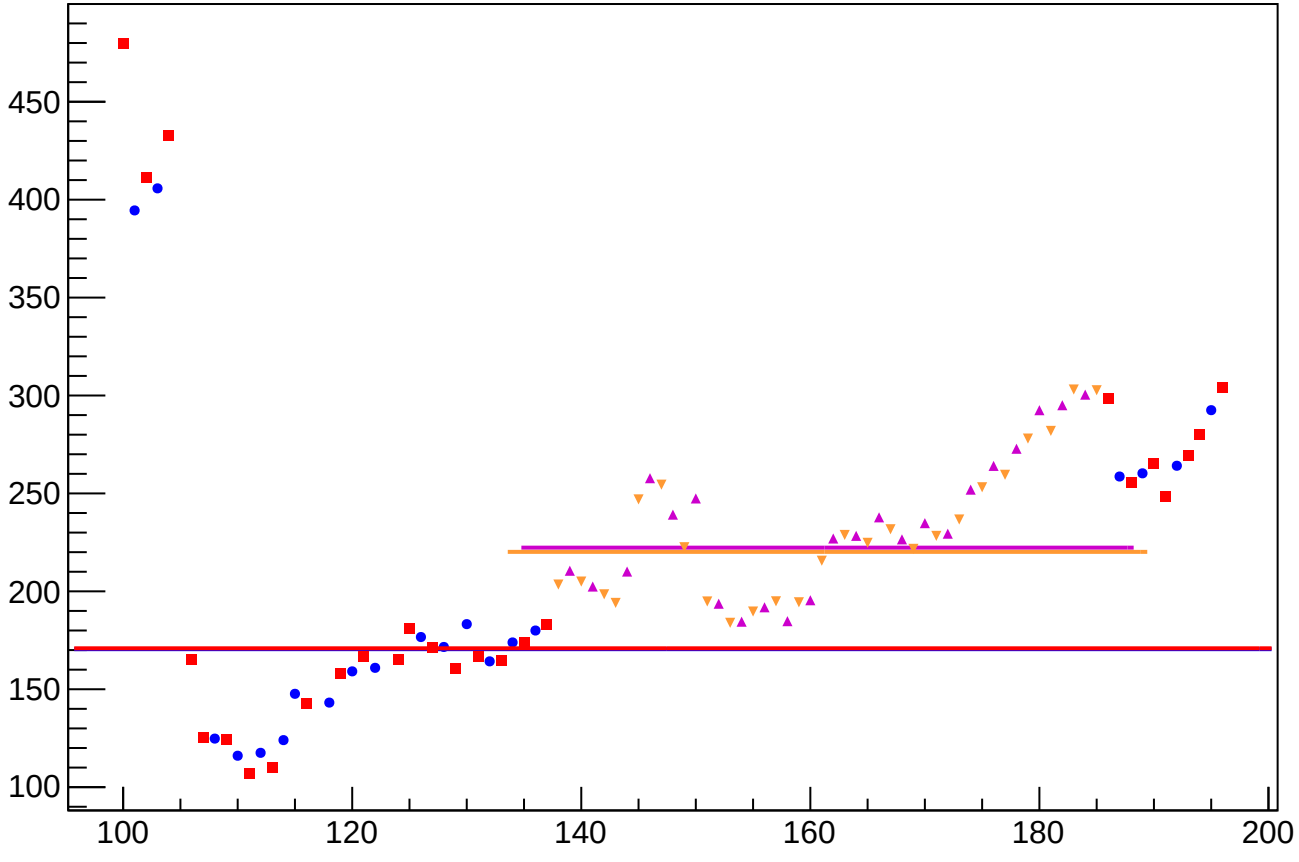
In: 173.649+/-0.025 $\chi^2$/NDF:6471783.0/42

Out: 171.127+/-0.023 $\chi^2$/NDF:8105493.9/50

All: 172.312+/-0.017 $\chi^2$/NDF: 14582717.5/93


yield_bpm1i06WS_mean vs Slug, Sign Corrected
×10^3
162
160
158
156
154
152
150
148
146
100
120
140
160
180
200
Right In: 147895.929+/-0.059 χ²/NDF: 2187999822.2/19
Left Out: 153342.472+/-0.051 χ²/NDF:2978670616.9/24
Right Out: 148090.409+/-0.054 χ²/NDF: 2810276293.6/25
Left In: 152831.399+/-0.053 χ²/NDF:1914395326.4/22
Left: 153096.797+/-0.037 χ²/NDF: 4941719474.7/4
Right: 148001.690+/-0.040 χ²/NDF: 5004255507.4/
In: 150622.028+/-0.039 χ²/NDF:8013793298.9/42
Out: 150862.931+/-0.037 χ²/NDF:10835232158.1
All: 150749.848+/-0.027 χ²/NDF: 18869022

# yield_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 170.472+/-0.041 $\chi^2$/NDF: 2071248.6/19

Left Out: 220.156+/-0.036 $\chi^2$/NDF:685590.6/24

Right Out: 170.909+/-0.038 $\chi^2$/NDF: 2981796.3/25

Left In: 222.304+/-0.037 $\chi^2$/NDF:697605.9/22

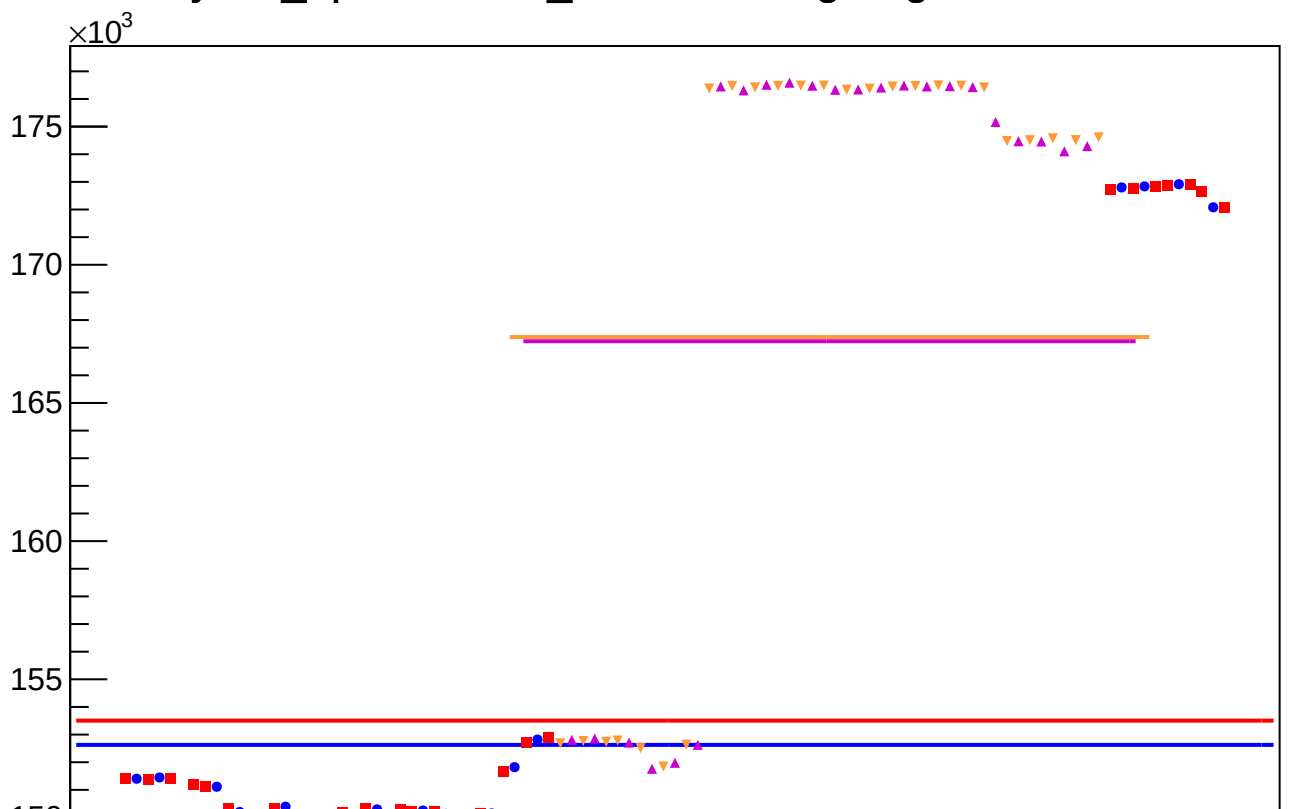
Left: 221.189+/-0.026 $\chi^2$/NDF: 1384916.2/47

Right: 170.710+/-0.028 $\chi^2$/NDF: 5053105.4/45

In: 199.102+/-0.028 $\chi^2$/NDF:3631639.6/42

Out: 196.906+/-0.026 $\chi^2$/NDF:4554733.7/50

All: 197.937+/-0.019 $\chi^2$/NDF: 8189695.1/93




Right In: 152627.183+/-0.052 $\chi^2$/NDF: 15452838321.9/19

Left Out: 167385.483+/-0.047 $\chi^2$/NDF:59602607546.2/24

Right Out: 153505.077+/-0.047 $\chi^2$/NDF: 25220624018.5/25

Left In: 167234.214+/-0.049 $\chi^2$/NDF:55099214555.0/22

Left: 167313.229+/-0.034 $\chi^2$/NDF: 114706826739.

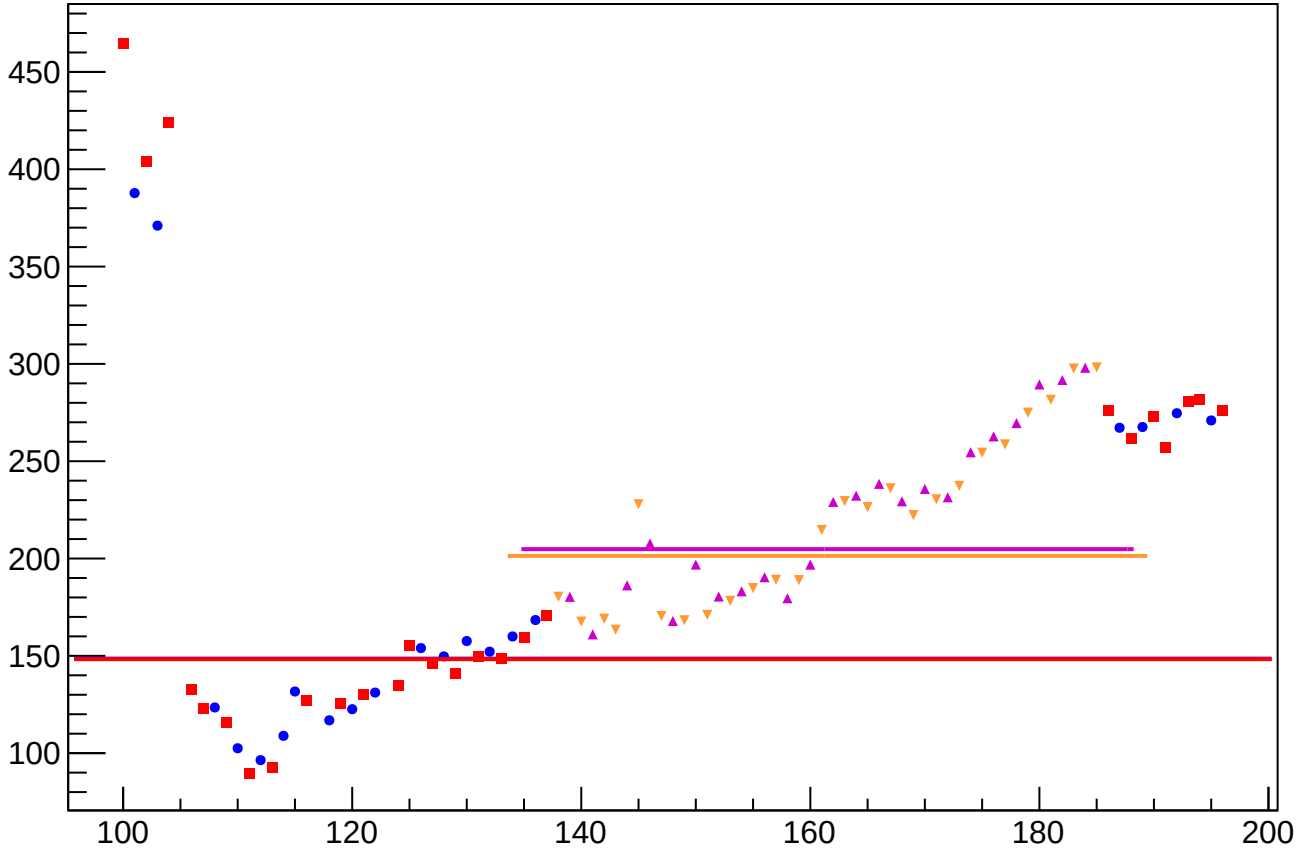
Right: 153106.059+/-0.035 $\chi^2$/NDF: 40828952283.

In: 160383.113+/-0.036 $\chi^2$/NDF:112453927228.2

Out: 160553.103+/-0.033 $\chi^2$/NDF:128247887384.

All: 160473.801+/-0.024 $\chi^2$/NDF: 240713971

# yield_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 148.546+/-0.037 $\chi^2$/NDF: 2565703.2/19

Left Out: 201.329+/-0.033 $\chi^2$/NDF:1230655.6/24

Right Out: 148.308+/-0.034 $\chi^2$/NDF: 3746920.9/25

Left In: 204.826+/-0.035 $\chi^2$/NDF:1053130.7/22

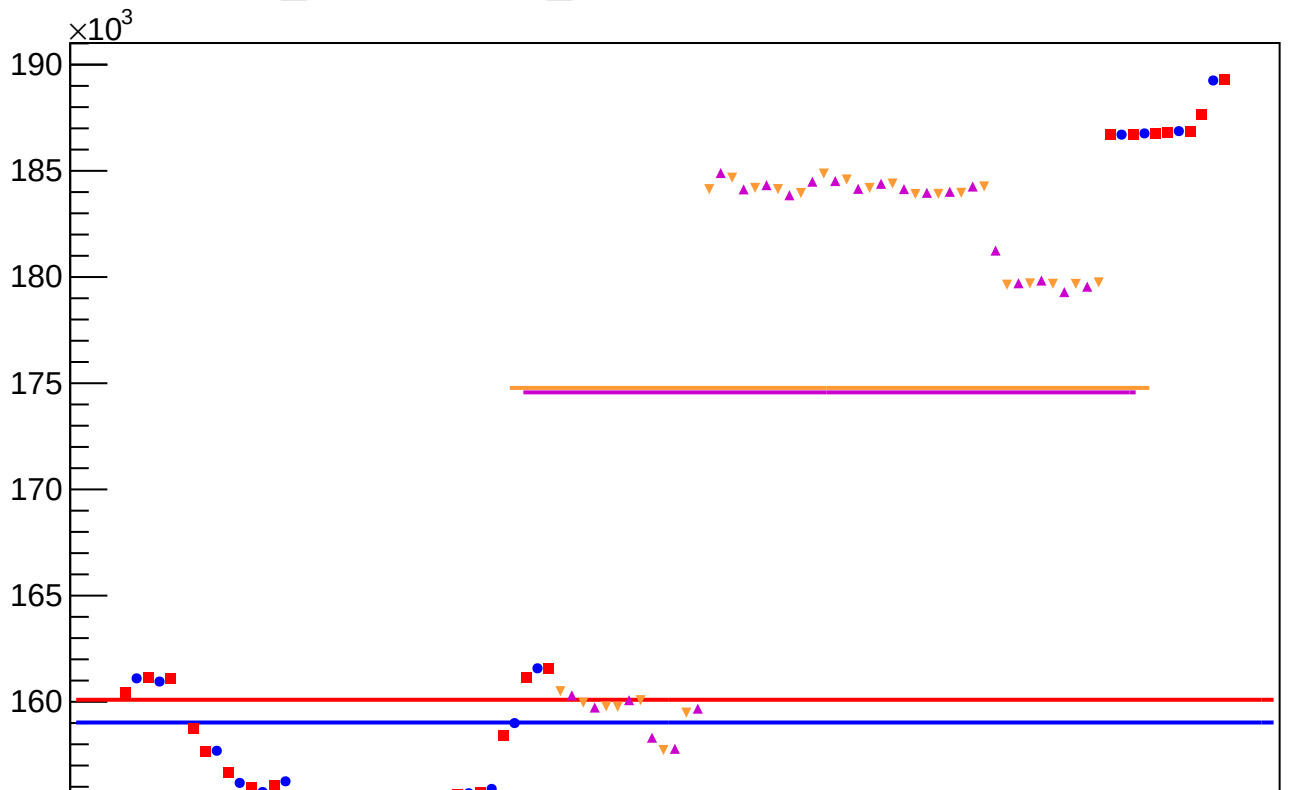
Left: 202.999+/-0.024 $\chi^2$/NDF: 2289136.5/47

Right: 148.416+/-0.025 $\chi^2$/NDF: 6312647.1/45

In: 178.429+/-0.025 $\chi^2$/NDF:4862900.4/42

Out: 175.230+/-0.024 $\chi^2$/NDF:6244808.7/50

All: 176.722+/-0.017 $\chi^2$/NDF: 11116320.2/93




Right In: 159025.709+/-0.054 $\chi^2$/NDF: 25926027990.9/19

Left Out: 174780.651+/-0.048 $\chi^2$/NDF:58132787948.0/24

Right Out: 160095.896+/-0.050 $\chi^2$/NDF: 40975238178.7/25

Left In: 174570.001+/-0.050 $\chi^2$/NDF:54757801795.4/22

Left: 174679.876+/-0.035 $\chi^2$/NDF: 112899724862.

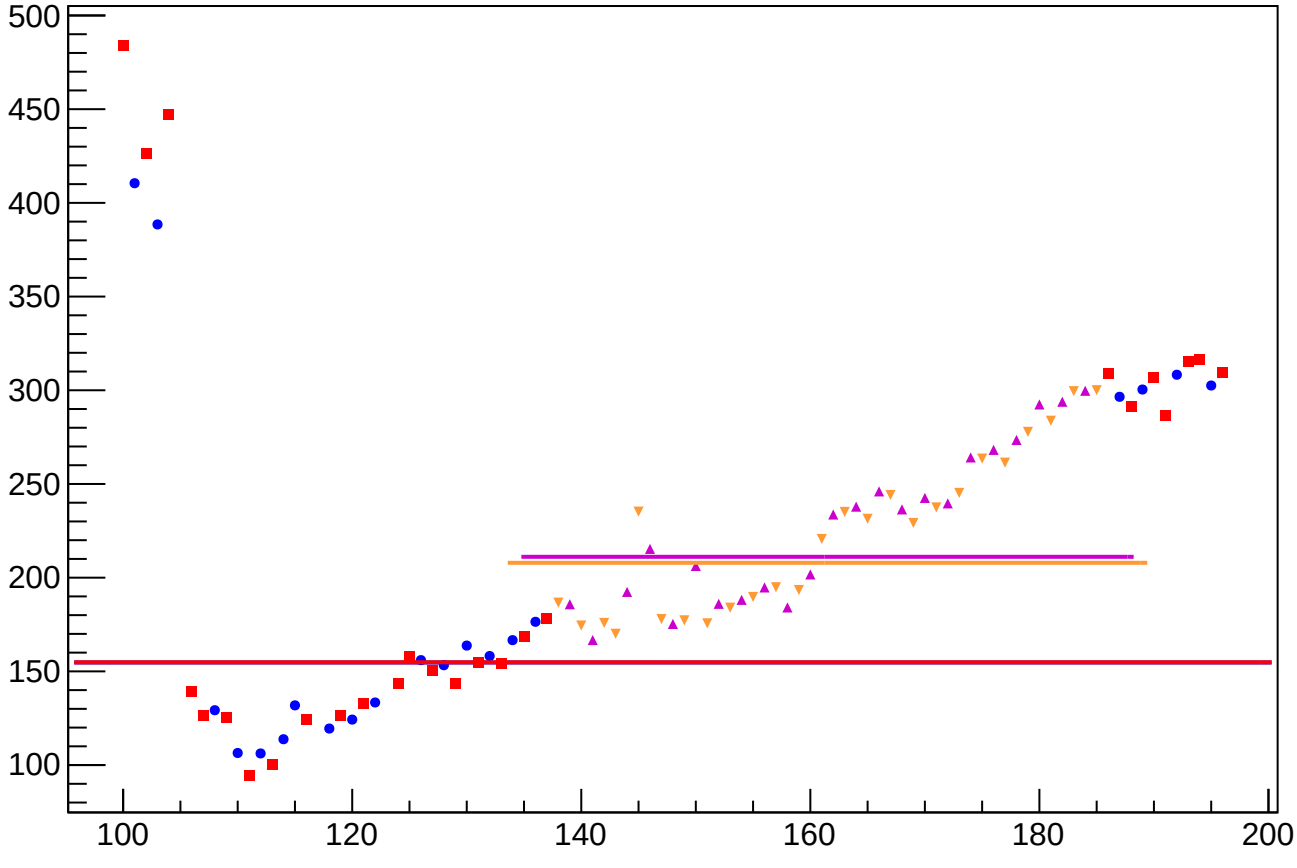
Right: 159607.244+/-0.037 $\chi^2$/NDF: 67111233096.

In: 167406.327+/-0.037 $\chi^2$/NDF:124634190597.1

Out: 167692.685+/-0.035 $\chi^2$/NDF:143898750016.

All: 167558.640+/-0.025 $\chi^2$/NDF: 26856487

# yield_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 154.731+/-0.038 $\chi^2$/NDF: 2726076.9/19

Left Out: 207.940+/-0.034 $\chi^2$/NDF:1132127.7/24

Right Out: 154.839+/-0.035 $\chi^2$/NDF: 4023353.8/25

Left In: 211.133+/-0.036 $\chi^2$/NDF:993720.4/22

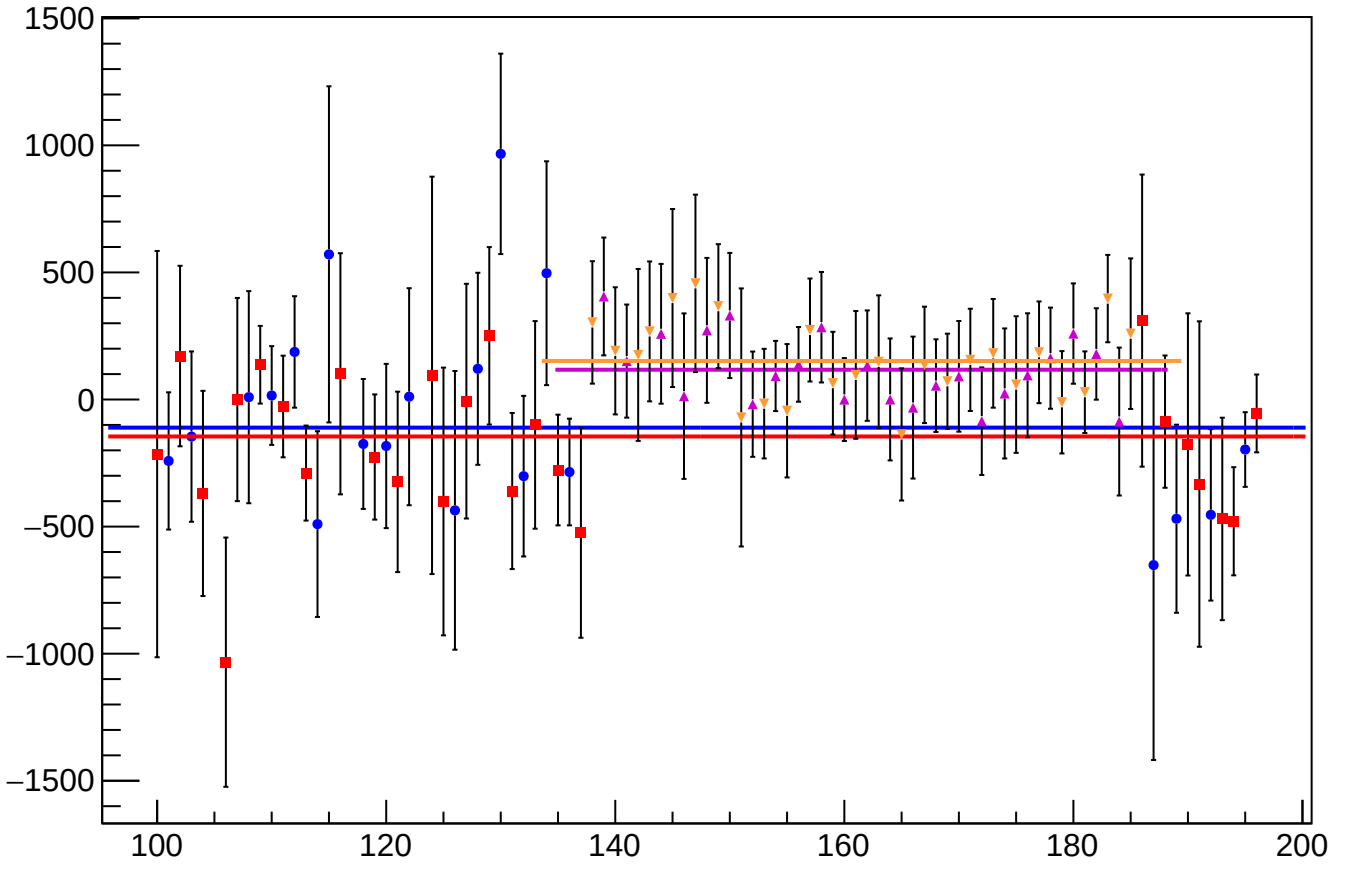
Left: 209.467+/-0.025 $\chi^2$/NDF: 2130047.7/47

Right: 154.790+/-0.026 $\chi^2$/NDF: 6749435.0/45

In: 185.140+/-0.026 $\chi^2$/NDF:4877077.9/42

Out: 182.309+/-0.025 $\chi^2$/NDF:6326835.9/50

All: 183.634+/-0.018 $\chi^2$/NDF: 11210155.4/93




Right In: -110.627+/-65.286 $\chi^2$/NDF: 18.9/19

Left Out: 151.598+/-46.419 $\chi^2$/NDF:9.6/24

Right Out: -145.425+/-56.965 $\chi^2$/NDF: 17.2/25

Left In: 117.163+/-43.778 $\chi^2$/NDF:7.5/22

Left: 133.373+/-31.848 $\chi^2$/NDF: 17.4/47

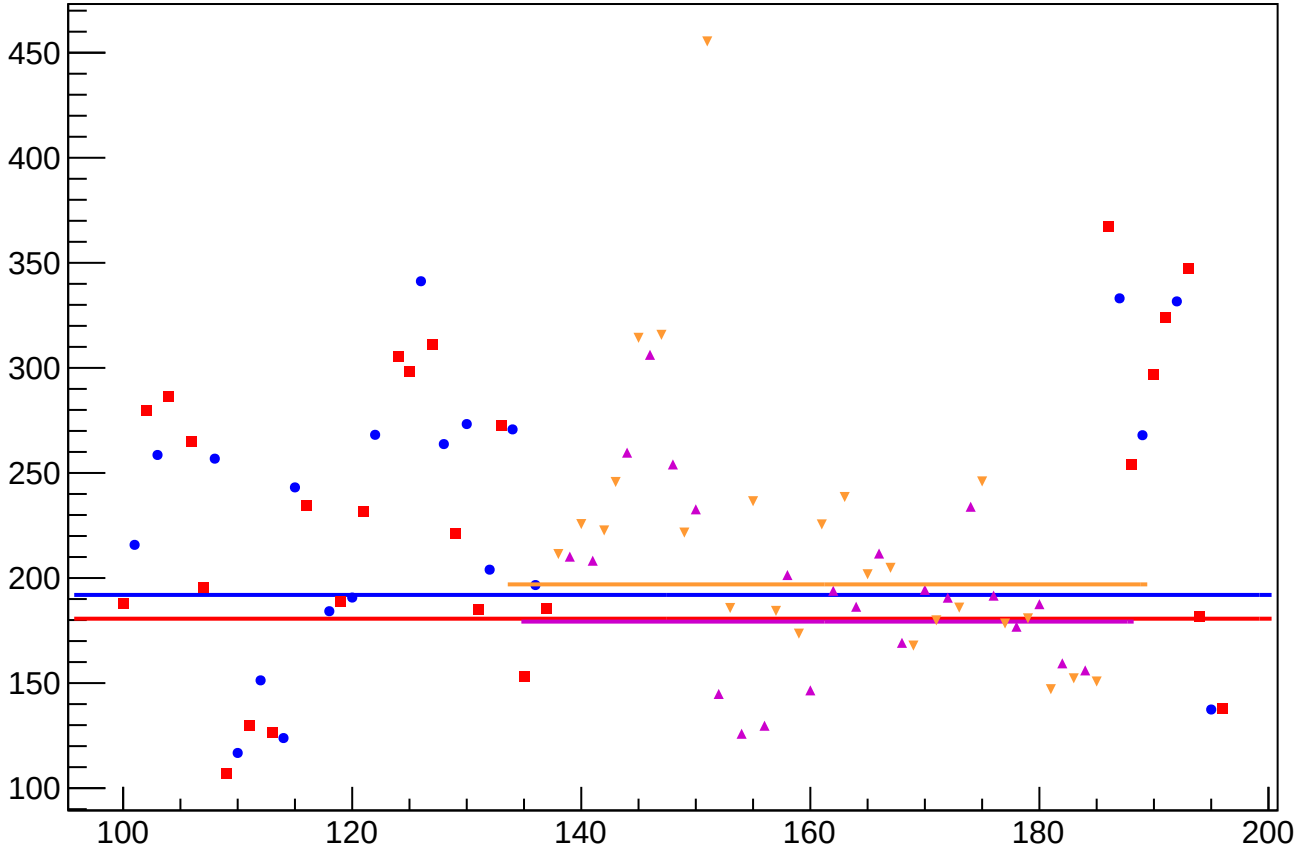
Right: -130.384+/-42.923 $\chi^2$/NDF: 36.2/45

In: 46.508+/-36.360 $\chi^2$/NDF:34.8/42

Out: 33.073+/-35.985 $\chi^2$/NDF:43.1/50

All: 39.721+/-25.577 $\chi^2$/NDF: 77.9/93

# asym_bcm_target_rms vs Slug, Sign Corrected




Right In: 191.961+/-0.046 $\chi^2$/NDF: 1802820.0/19

Left Out: 196.975+/-0.033 $\chi^2$/NDF:1809307.4/24

Right Out: 180.647+/-0.040 $\chi^2$/NDF: 2737544.2/25

Left In: 179.256+/-0.031 $\chi^2$/NDF:1656023.5/22

Left: 187.597+/-0.023 $\chi^2$/NDF: 3619571.5/47

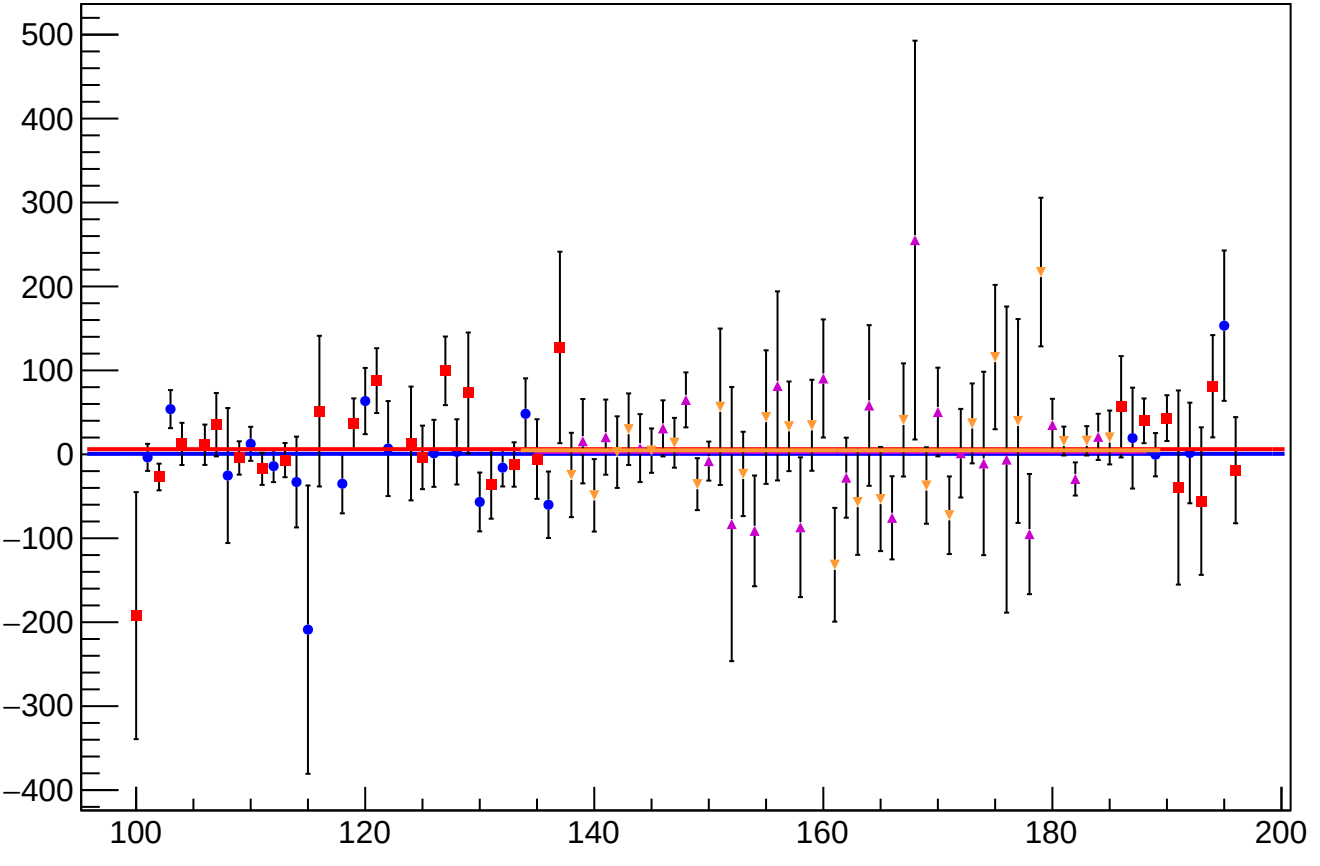
Right: 185.537+/-0.030 $\chi^2$/NDF: 4574464.7/45

In: 183.197+/-0.026 $\chi^2$/NDF:3511089.9/42

Out: 190.460+/-0.025 $\chi^2$/NDF:4645603.3/50

All: 186.866+/-0.018 $\chi^2$/NDF: 8197007.3/93

# asym_bcm_an_diff_mean vs Slug, Sign Corrected




Right In: 0.611+/-6.943 $\chi^2$/NDF: 21.9/19

Left Out: 4.803+/-7.601 $\chi^2$/NDF:24.3/24

Right Out: 6.147+/-6.251 $\chi^2$/NDF: 30.1/25

Left In: 2.918+/-8.840 $\chi^2$/NDF:21.5/22

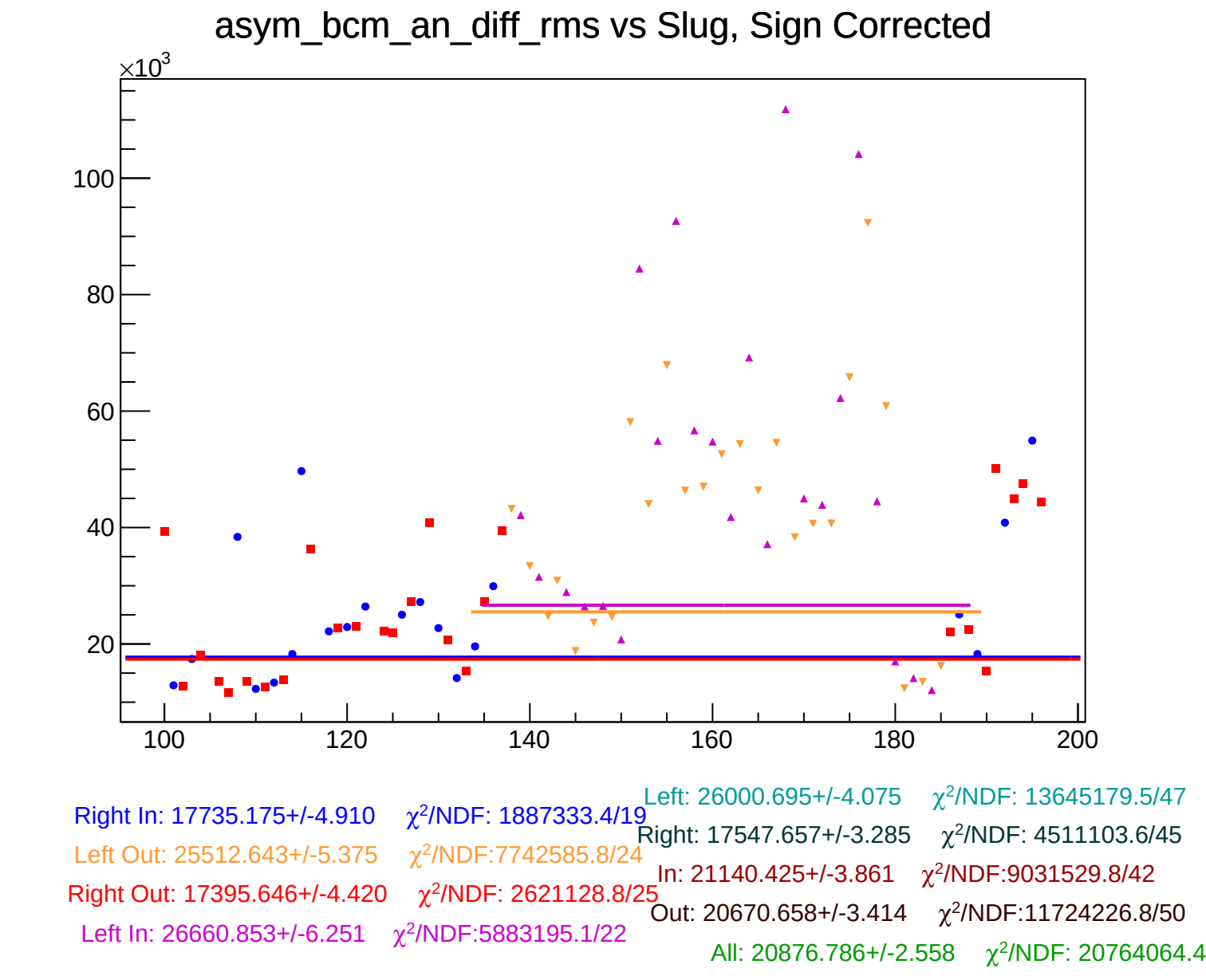
Left: 4.002+/-5.763 $\chi^2$/NDF: 45.9/47

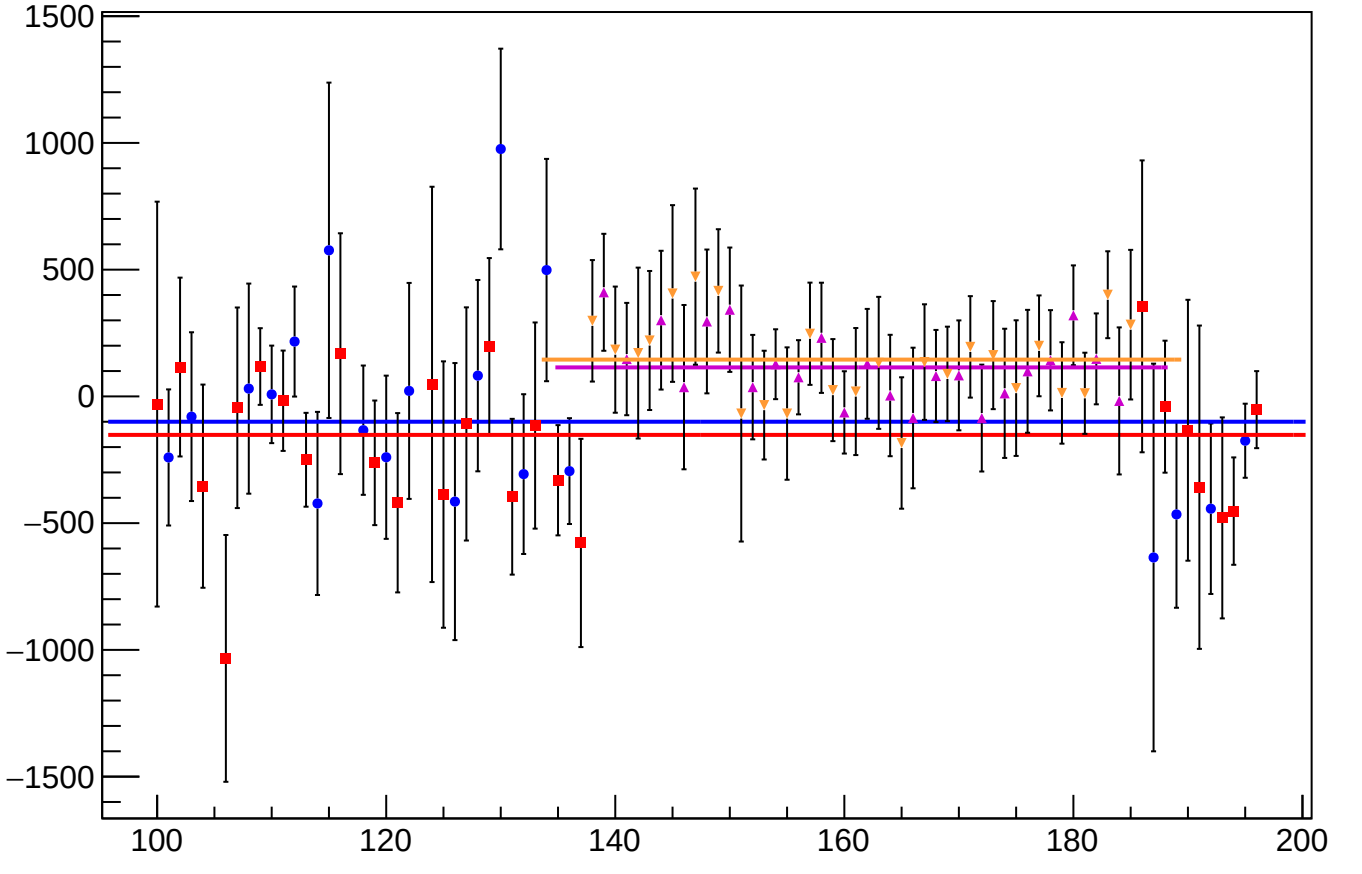
Right: 3.669+/-4.646 $\chi^2$/NDF: 52.4/45

In: 1.491+/-5.460 $\chi^2$/NDF:43.5/42

Out: 5.605+/-4.828 $\chi^2$/NDF:54.5/50

All: 3.800+/-3.617 $\chi^2$/NDF: 98.2/93


asym_bcm_an_diff_rms vs Slug, Sign Corrected
×10^3
100
80
60
40
20
100
120
140
160
180
200
Right In: 17735.175+/-4.910 χ²/NDF: 1887333.4/19
Left Out: 25512.643+/-5.375 χ²/NDF:7742585.8/24
Right Out: 17395.646+/-4.420 χ²/NDF: 2621128.8/25
Left In: 26660.853+/-6.251 χ²/NDF:5883195.1/22
Left: 26000.695+/-4.075 χ²/NDF: 13645179.5/47
Right: 17547.657+/-3.285 χ²/NDF: 4511103.6/45
In: 21140.425+/-3.861 χ²/NDF:9031529.8/42
Out: 20670.658+/-3.414 χ²/NDF:11724226.8/50
All: 20876.786+/-2.558 χ²/NDF: 20764064.4




Right In: -99.939+/-64.933 $\chi^2$/NDF: 18.8/19

Left Out: 145.172+/-46.225 $\chi^2$/NDF:11.2/24

Right Out: -151.861+/-56.640 $\chi^2$/NDF: 17.2/25

Left In: 114.400+/-43.619 $\chi^2$/NDF:8.4/22

Left: 128.894+/-31.725 $\chi^2$/NDF: 19.8/47

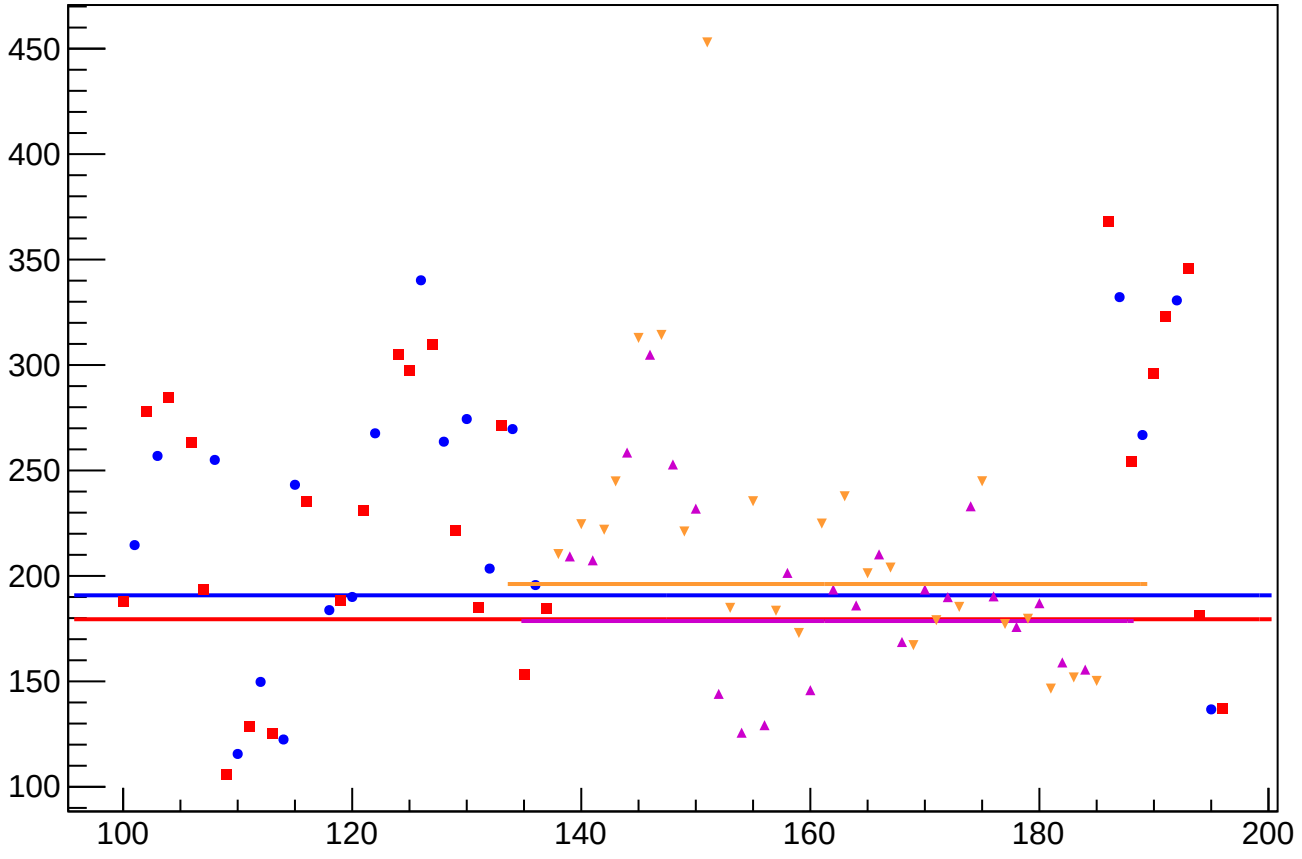
Right: -129.426+/-42.683 $\chi^2$/NDF: 36.4/45

In: 47.753+/-36.208 $\chi^2$/NDF:34.7/42

Out: 26.423+/-35.812 $\chi^2$/NDF:44.9/50

All: 36.971+/-25.462 $\chi^2$/NDF: 79.8/93

# asym_bcm_an_ds_rms vs Slug, Sign Corrected




Right In: 190.803+/-0.046 $\chi^2$/NDF: 1825925.9/19

Left Out: 196.166+/-0.033 $\chi^2$/NDF:1806871.5/24

Right Out: 179.464+/-0.040 $\chi^2$/NDF: 2773847.2/25

Left In: 178.621+/-0.031 $\chi^2$/NDF:1651873.8/22

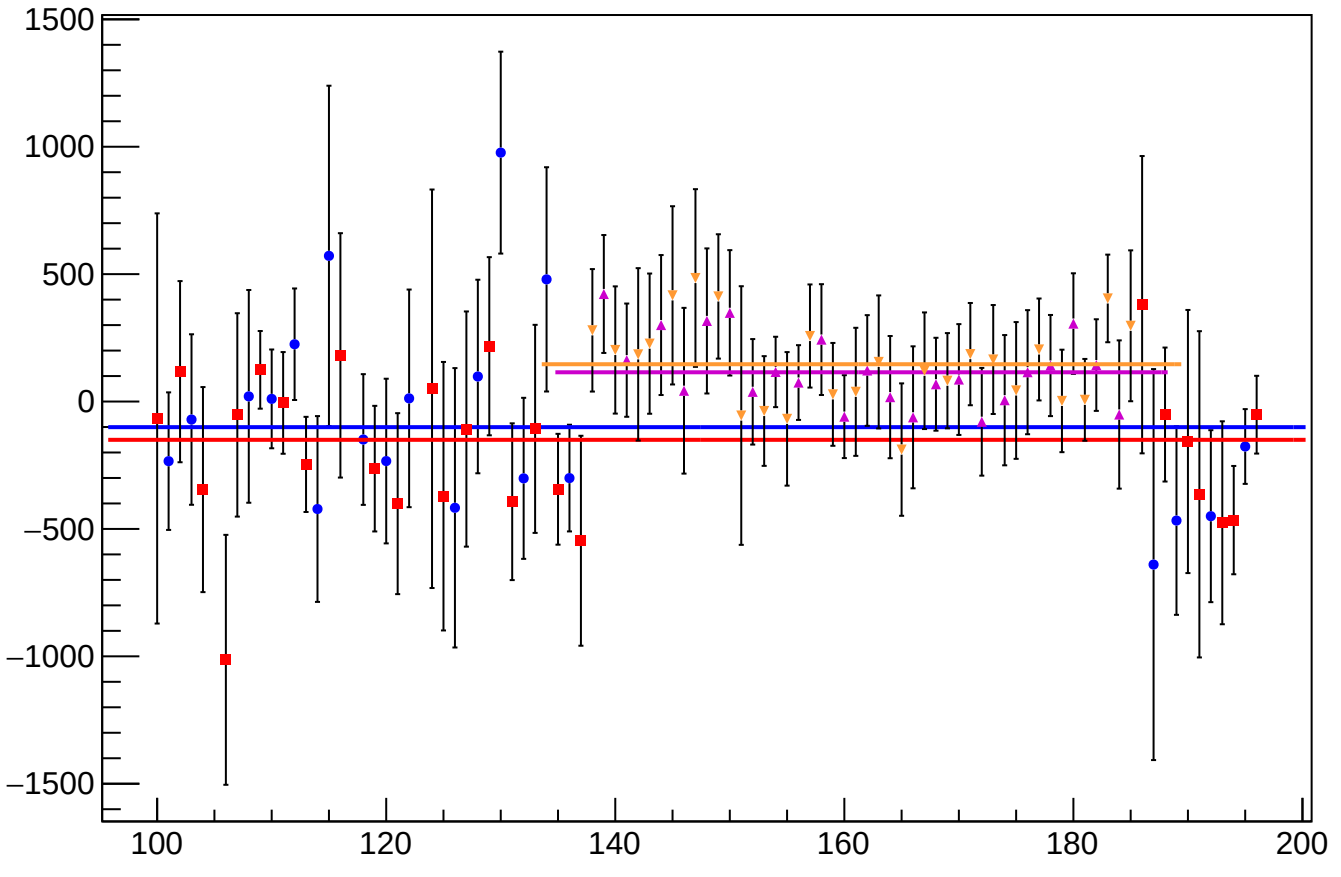
Left: 186.885+/-0.022 $\chi^2$/NDF: 3611152.5/47

Right: 184.364+/-0.030 $\chi^2$/NDF: 4634407.4/45

In: 182.409+/-0.026 $\chi^2$/NDF:3526309.5/42

Out: 189.489+/-0.025 $\chi^2$/NDF:4685090.3/50

All: 185.988+/-0.018 $\chi^2$/NDF: 8250053.0/93




Right In: -100.544+/-65.266 $\chi^2$/NDF: 18.8/19

Left Out: 146.417+/-46.379 $\chi^2$/NDF:11.4/24

Right Out: -150.279+/-56.948 $\chi^2$/NDF: 17.3/25

Left In: 114.807+/-43.740 $\chi^2$/NDF:8.4/22

Left: 129.688+/-31.821 $\chi^2$/NDF: 20.1/47

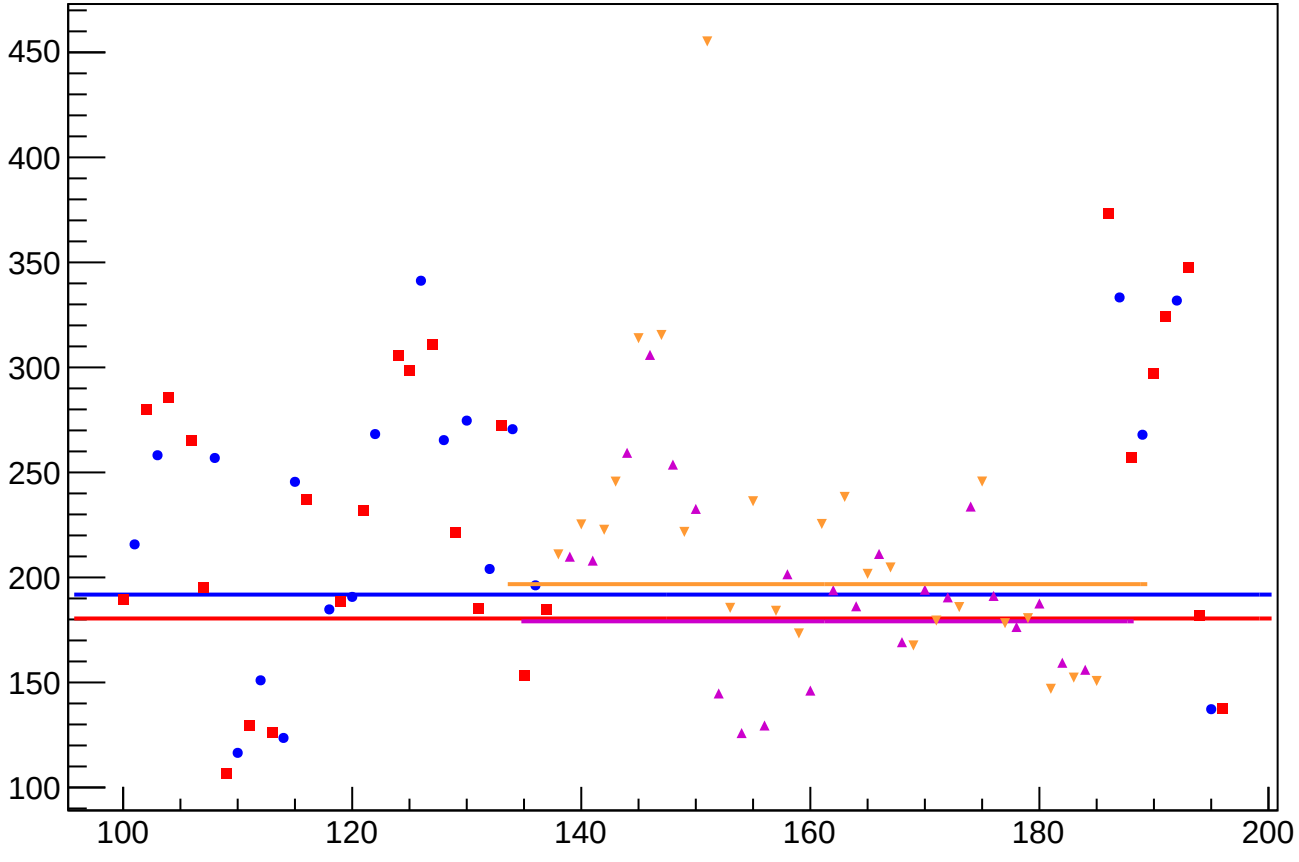
Right: -128.781+/-42.910 $\chi^2$/NDF: 36.4/45

In: 48.061+/-36.335 $\chi^2$/NDF:34.7/42

Out: 28.104+/-35.962 $\chi^2$/NDF:45.0/50

All: 37.979+/-25.560 $\chi^2$/NDF: 79.9/93

# asym_bcm_an_ds3_rms vs Slug, Sign Corrected




Right In: 191.834+/-0.046 $\chi^2$/NDF: 1815521.2/19

Left Out: 196.805+/-0.033 $\chi^2$/NDF:1808608.7/24

Right Out: 180.458+/-0.040 $\chi^2$/NDF: 2768924.9/25

Left In: 179.101+/-0.031 $\chi^2$/NDF:1655866.1/22

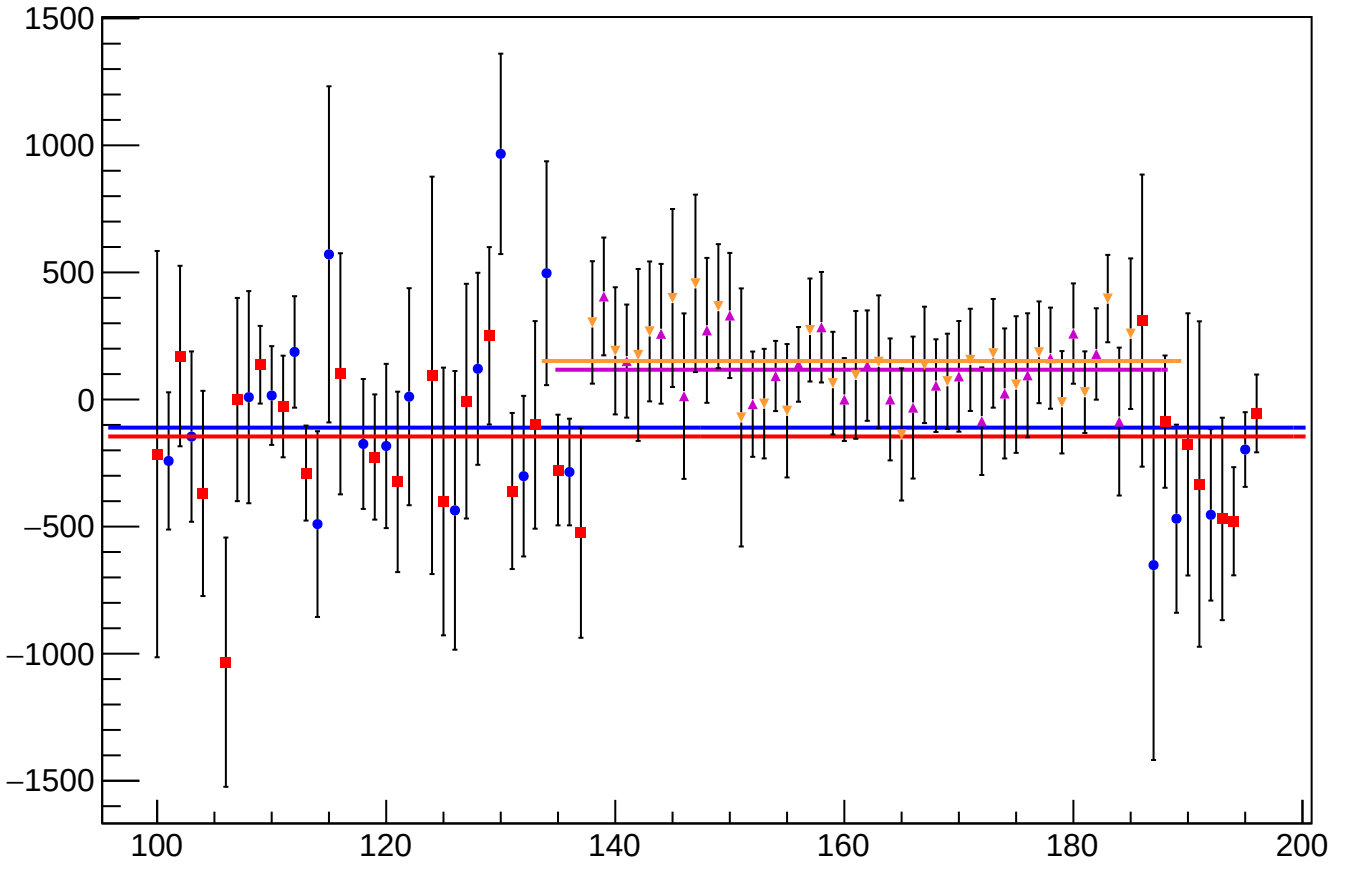
Left: 187.435+/-0.023 $\chi^2$/NDF: 3618723.6/47

Right: 185.375+/-0.030 $\chi^2$/NDF: 4618938.6/45

In: 183.047+/-0.026 $\chi^2$/NDF:3523914.7/42

Out: 190.287+/-0.025 $\chi^2$/NDF:4676613.7/50

All: 186.704+/-0.018 $\chi^2$/NDF: 8240635.7/93




Right In: -110.627+/-65.286 $\chi^2$/NDF: 18.9/19

Left Out: 151.598+/-46.419 $\chi^2$/NDF:9.6/24

Right Out: -145.425+/-56.965 $\chi^2$/NDF: 17.2/25

Left In: 117.163+/-43.778 $\chi^2$/NDF:7.5/22

Left: 133.373+/-31.848 $\chi^2$/NDF: 17.4/47

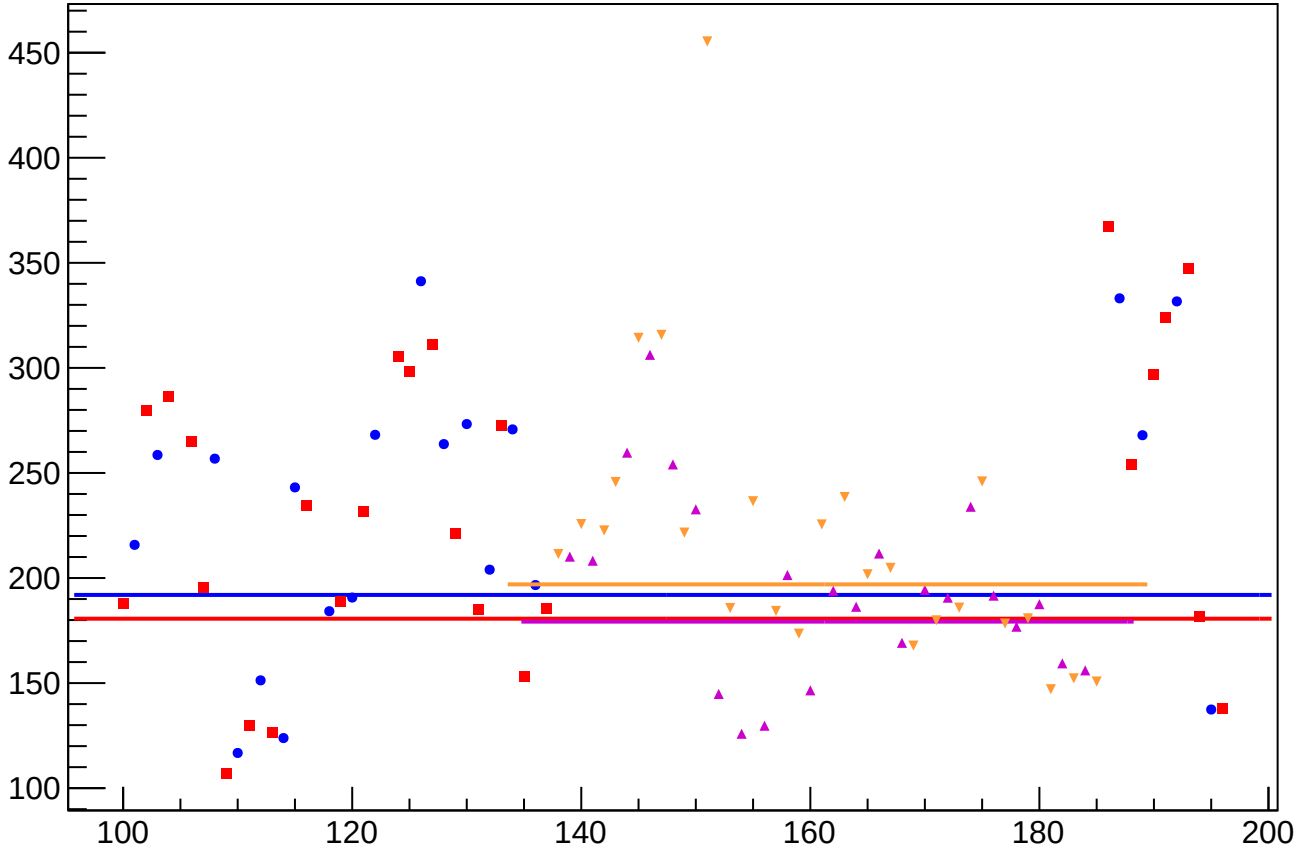
Right: -130.384+/-42.923 $\chi^2$/NDF: 36.2/45

In: 46.508+/-36.360 $\chi^2$/NDF:34.8/42

Out: 33.073+/-35.985 $\chi^2$/NDF:43.1/50

All: 39.721+/-25.577 $\chi^2$/NDF: 77.9/93

# asym_bcm_an_us_rms vs Slug, Sign Corrected




Right In: 191.961+/-0.046 $\chi^2$/NDF: 1802820.0/19

Left Out: 196.975+/-0.033 $\chi^2$/NDF:1809307.4/24

Right Out: 180.647+/-0.040 $\chi^2$/NDF: 2737544.2/25

Left In: 179.256+/-0.031 $\chi^2$/NDF:1656023.5/22

Left: 187.597+/-0.023 $\chi^2$/NDF: 3619571.5/47

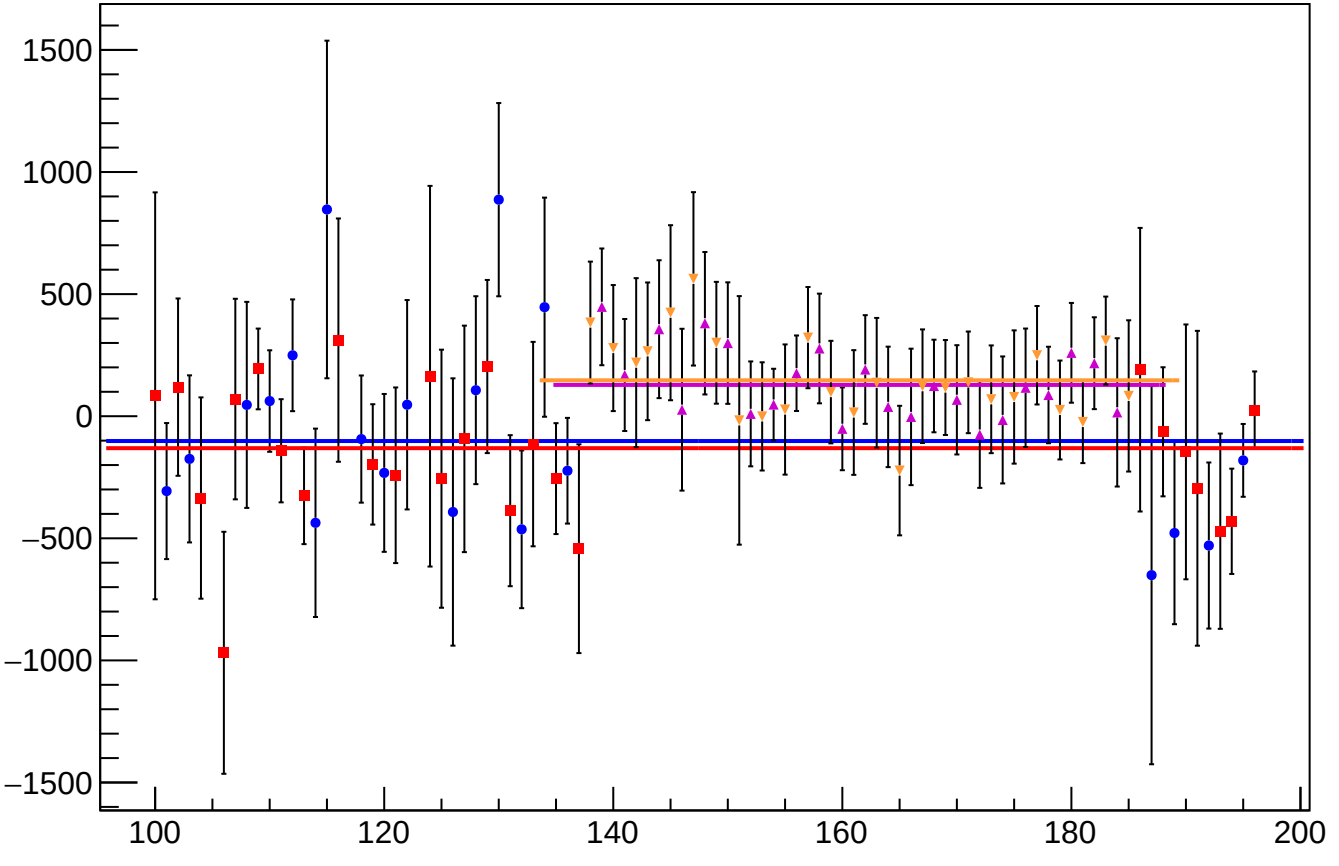
Right: 185.537+/-0.030 $\chi^2$/NDF: 4574464.7/45

In: 183.197+/-0.026 $\chi^2$/NDF:3511089.9/42

Out: 190.460+/-0.025 $\chi^2$/NDF:4645603.3/50

All: 186.866+/-0.018 $\chi^2$/NDF: 8197007.3/93

# asym_bcm_dg_us_mean vs Slug, Sign Corrected




Right In: -101.622+/-67.010 $\chi^2$/NDF: 19.9/19

Left Out: 146.973+/-47.709 $\chi^2$/NDF:10.2/24

Right Out: -130.912+/-58.945 $\chi^2$/NDF: 16.8/25

Left In: 128.159+/-45.200 $\chi^2$/NDF:8.6/22

Left: 137.058+/-32.812 $\chi^2$/NDF: 18.8/47

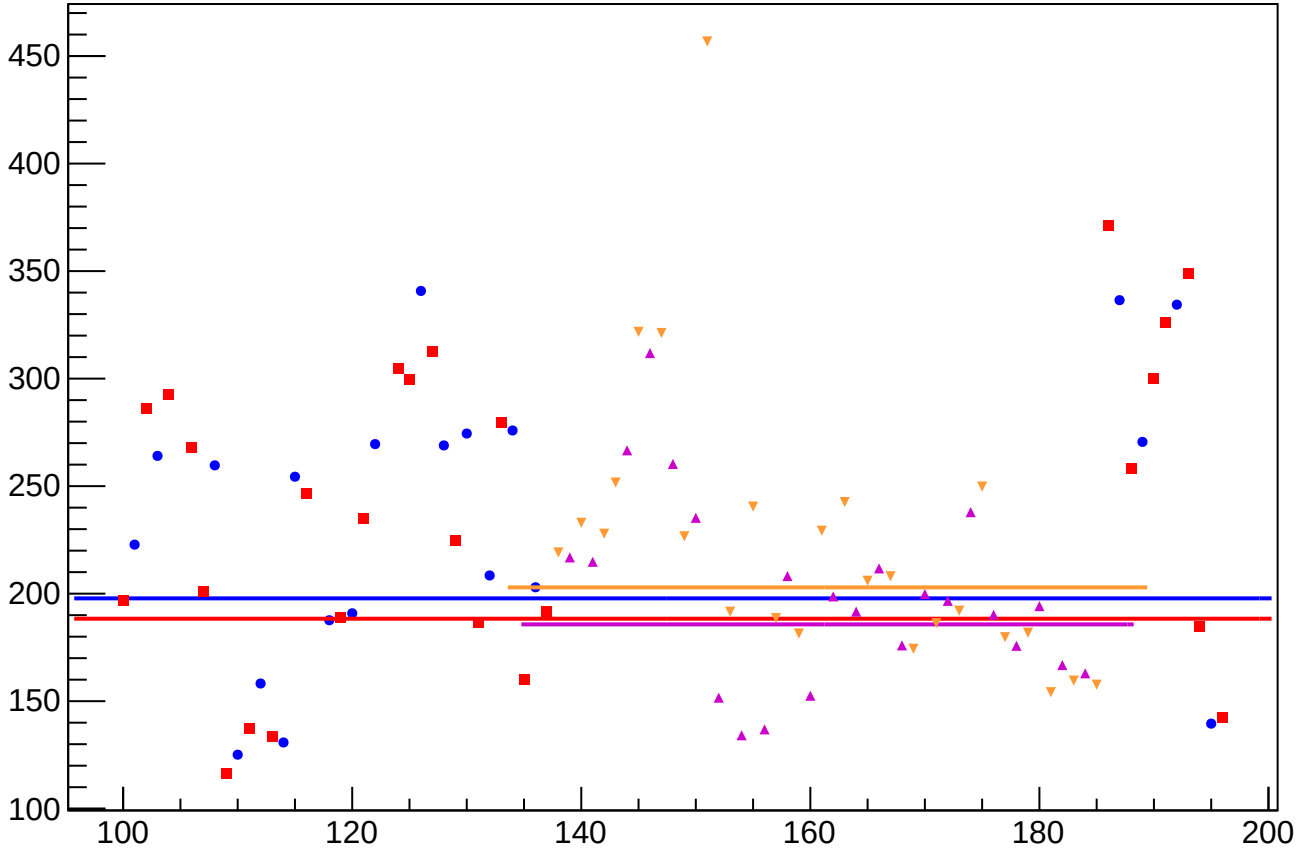
Right: -118.135+/-44.259 $\chi^2$/NDF: 36.7/45

In: 56.305+/-37.472 $\chi^2$/NDF:36.5/42

Out: 36.985+/-37.084 $\chi^2$/NDF:40.4/50

All: 46.545+/-26.359 $\chi^2$/NDF: 77.0/93

# asym_bcm_dg_us_rms vs Slug, Sign Corrected




Right In: 197.811+/-0.047 $\chi^2$/NDF: 1684000.7/19

Left Out: 202.920+/-0.034 $\chi^2$/NDF:1700115.2/24

Right Out: 188.348+/-0.042 $\chi^2$/NDF: 2473426.8/25

Left In: 185.716+/-0.032 $\chi^2$/NDF:1489487.2/22

Left: 193.854+/-0.023 $\chi^2$/NDF: 3326661.1/47

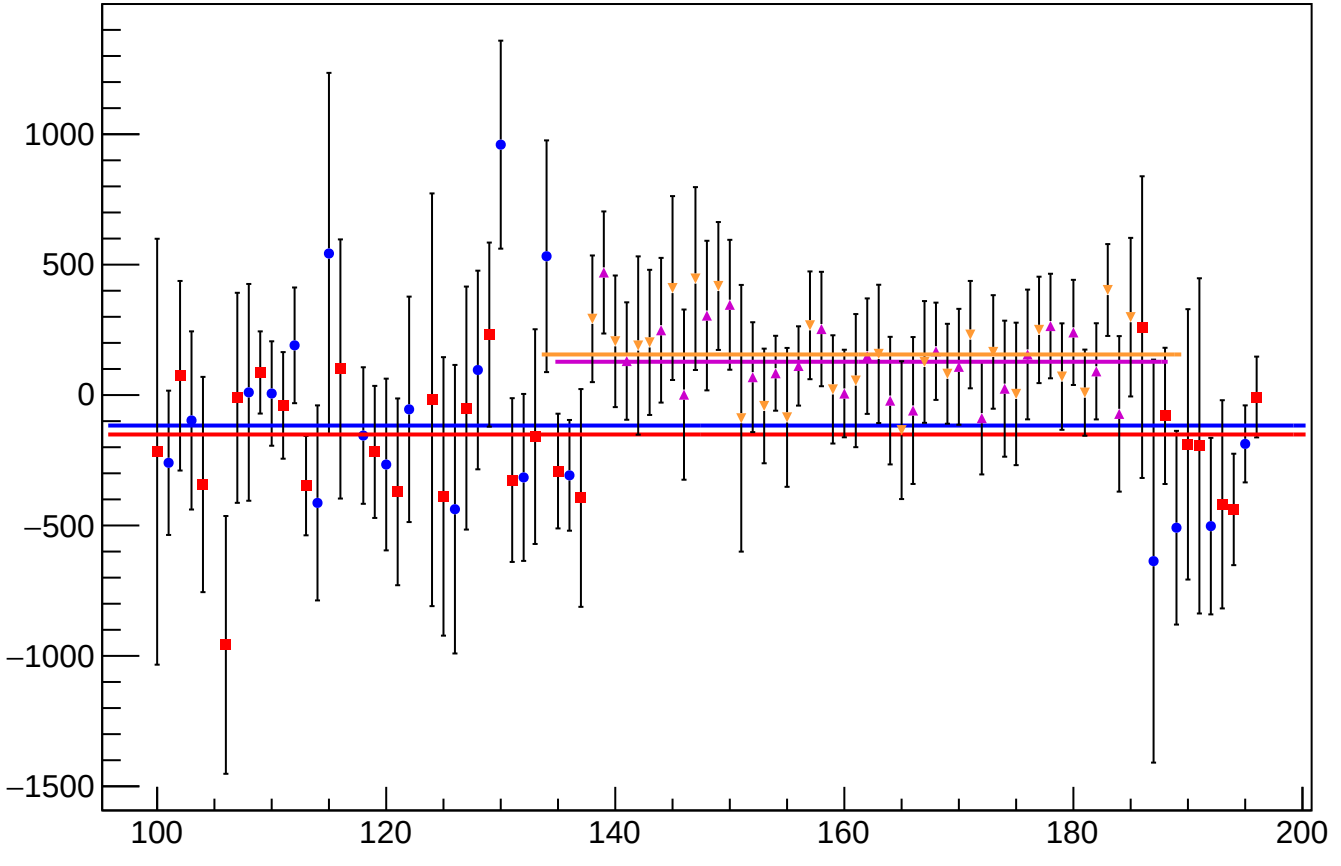
Right: 192.476+/-0.031 $\chi^2$/NDF: 4179917.5/45

In: 189.498+/-0.026 $\chi^2$/NDF:3218274.1/42

Out: 197.152+/-0.026 $\chi^2$/NDF:4247398.8/50

All: 193.365+/-0.019 $\chi^2$/NDF: 7507829.4/93

# asym_bcm_dg_ds_mean vs Slug, Sign Corrected




Right In: -116.860+/-66.209 $\chi^2$/NDF: 18.8/19

Left Out: 155.646+/-47.263 $\chi^2$/NDF:10.7/24

Right Out: -151.155+/-57.895 $\chi^2$/NDF: 14.0/25

Left In: 127.660+/-44.698 $\chi^2$/NDF:8.0/22

Left: 140.872+/-32.475 $\chi^2$/NDF: 18.8/47

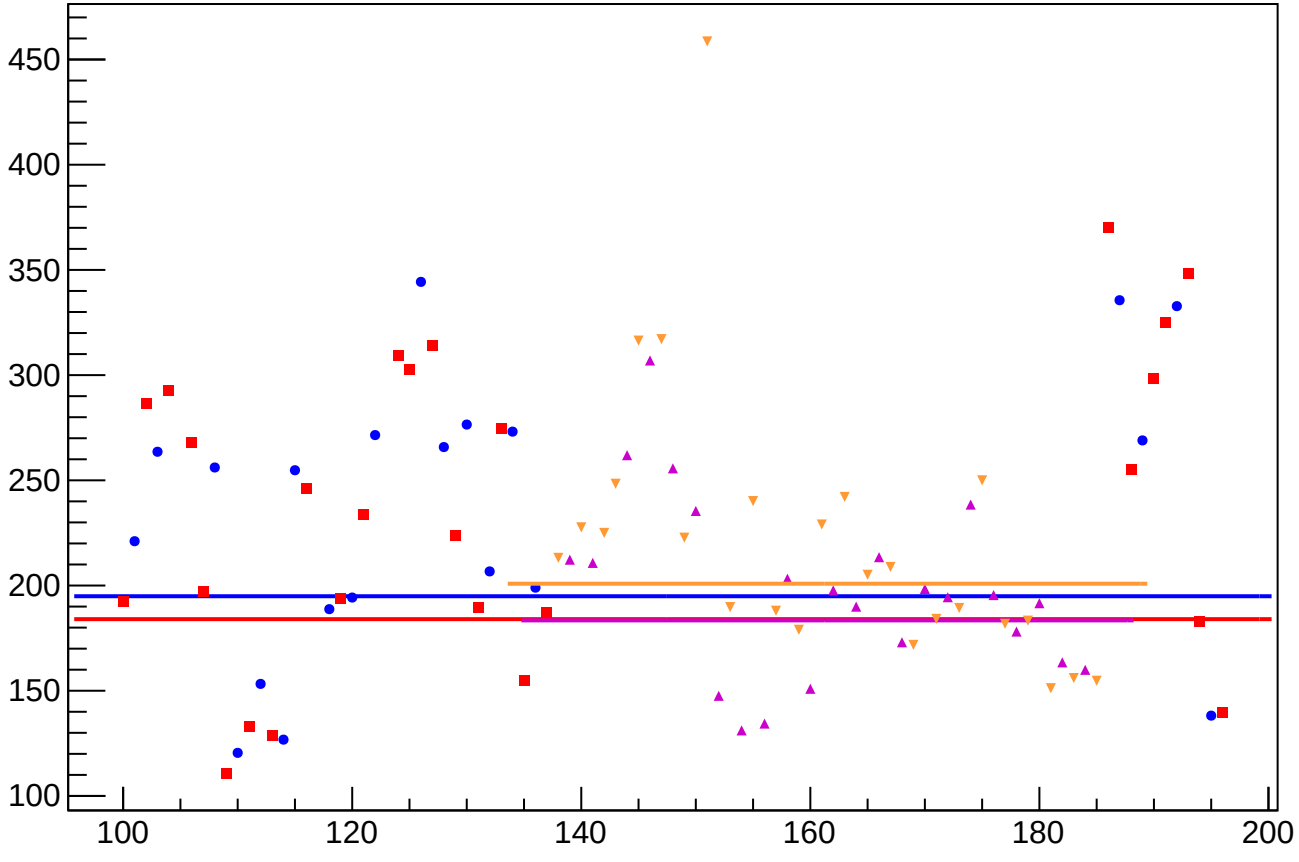
Right: -136.295+/-43.583 $\chi^2$/NDF: 32.9/45

In: 51.107+/-37.046 $\chi^2$/NDF:36.2/42

Out: 32.949+/-36.612 $\chi^2$/NDF:41.5/50

All: 41.921+/-26.041 $\chi^2$/NDF: 77.7/93

# asym_bcm_dg_ds_rms vs Slug, Sign Corrected




Right In: 194.914+/-0.047 $\chi^2$/NDF: 1772008.1/19

Left Out: 200.865+/-0.033 $\chi^2$/NDF:1727404.3/24

Right Out: 184.025+/-0.041 $\chi^2$/NDF: 2669899.2/25

Left In: 183.433+/-0.032 $\chi^2$/NDF:1530678.8/22

Left: 191.663+/-0.023 $\chi^2$/NDF: 3401689.7/47

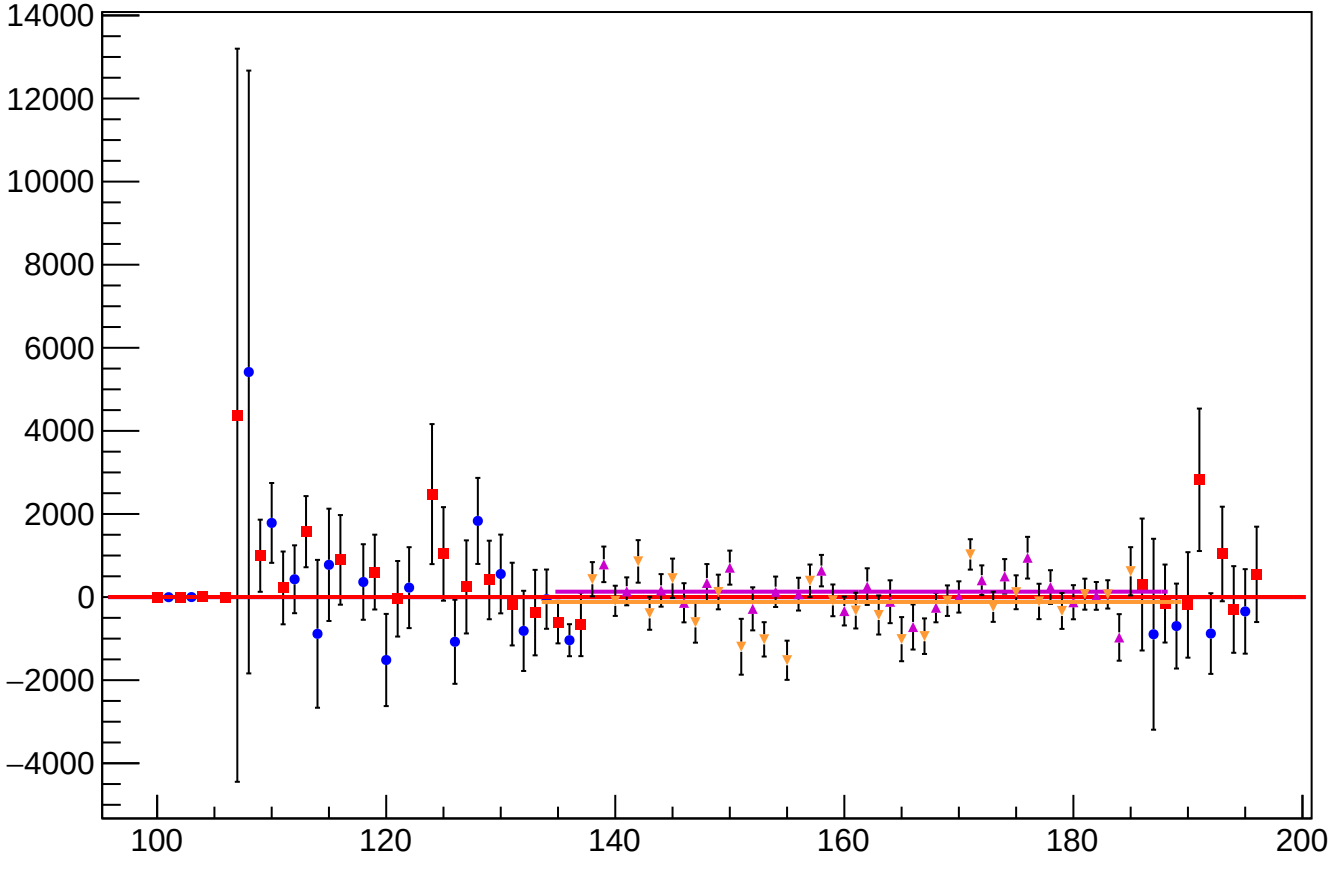
Right: 188.743+/-0.031 $\chi^2$/NDF: 4472560.4/45

In: 187.027+/-0.026 $\chi^2$/NDF:3343992.4/42

Out: 194.130+/-0.026 $\chi^2$/NDF:4498838.5/50

All: 190.621+/-0.018 $\chi^2$/NDF: 7880022.5/93

# asym_cav4bQ_mean vs Slug, Sign Corrected




Right In: -1.249+/-2.171 $\chi^2$/NDF: 21.5/19

Left Out: -117.658+/-84.207 $\chi^2$/NDF:46.4/24

Right Out: 1.384+/-2.022 $\chi^2$/NDF: 20.8/25

Left In: 129.738+/-85.075 $\chi^2$/NDF:21.7/22

Left: 4.773+/-59.848 $\chi^2$/NDF: 72.3/47

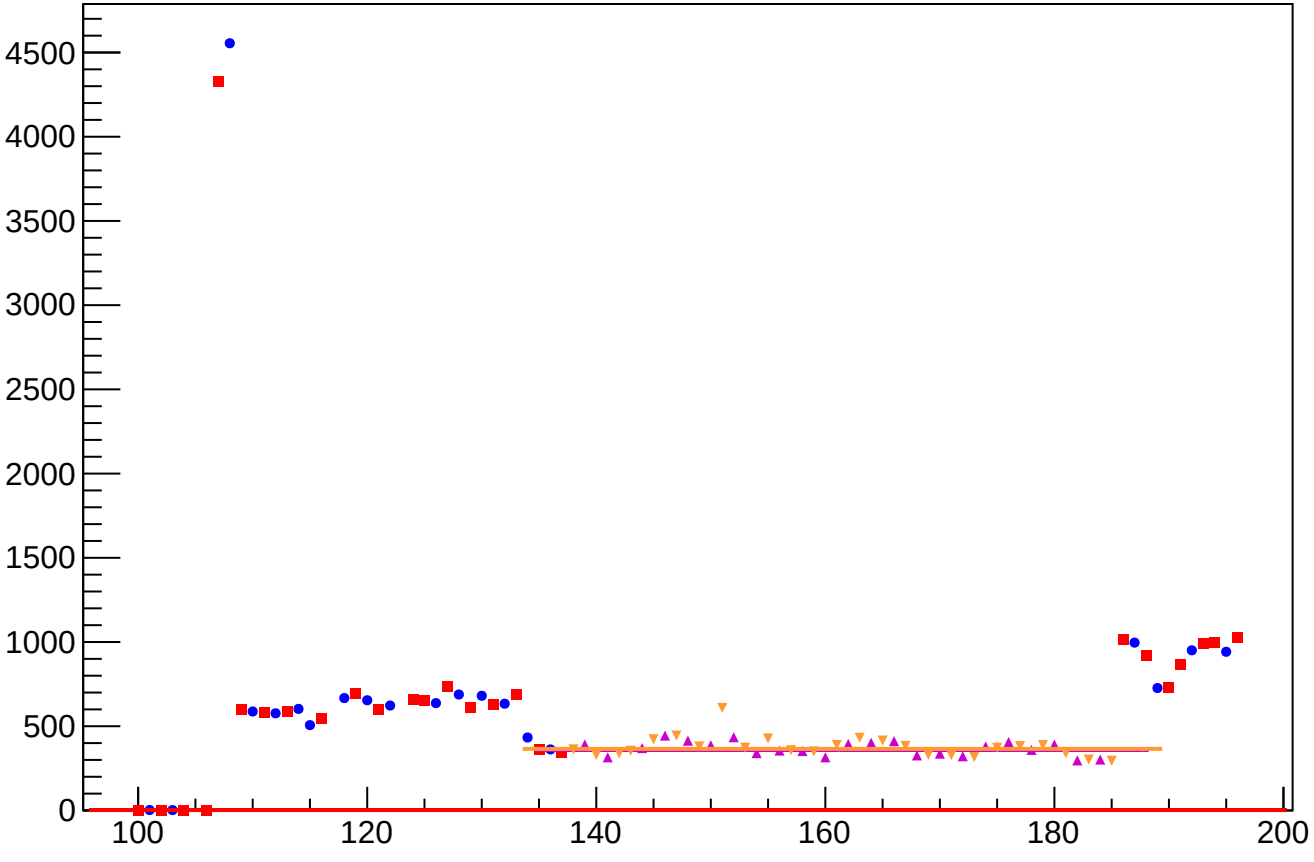
Right: 0.161+/-1.480 $\chi^2$/NDF: 43.0/45

In: -1.164+/-2.170 $\chi^2$/NDF:45.5/42

Out: 1.316+/-2.022 $\chi^2$/NDF:69.2/50

All: 0.164+/-1.479 $\chi^2$/NDF: 115.3/93

# asym_cav4bQ_rms vs Slug, Sign Corrected




Right In: 2.490+/-0.002 $\chi^2$/NDF: 16619600.0/19

Left Out: 365.603+/-0.060 $\chi^2$/NDF:668124.0/24

Right Out: 2.481+/-0.001 $\chi^2$/NDF: 20335763.6/25

Left In: 359.024+/-0.060 $\chi^2$/NDF:446263.1/22

Left: 362.347+/-0.042 $\chi^2$/NDF: 1120429.0/47

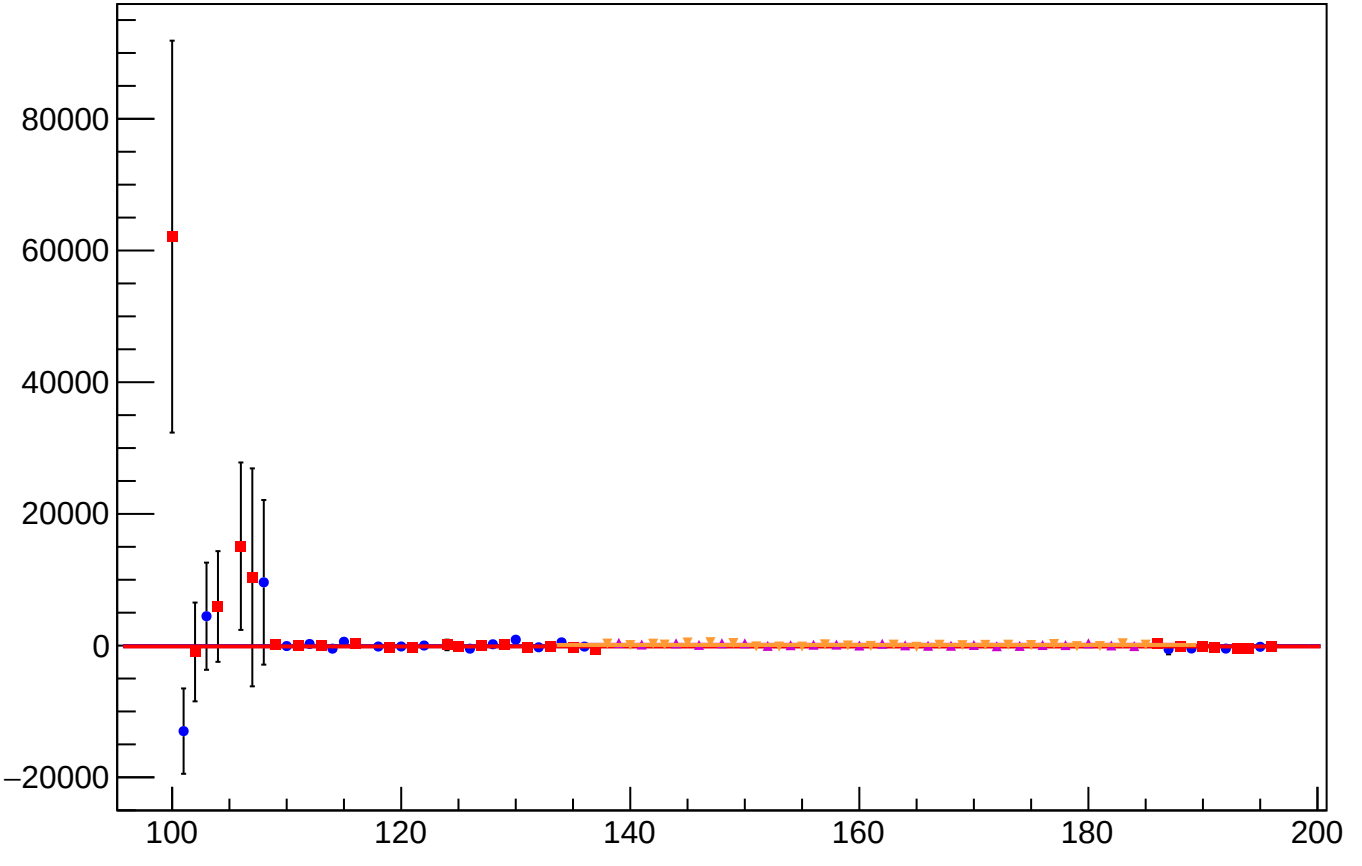
Right: 2.485+/-0.001 $\chi^2$/NDF: 36955380.9/45

In: 2.722+/-0.002 $\chi^2$/NDF:52169235.8/42

Out: 2.690+/-0.001 $\chi^2$/NDF:58173051.2/50

All: 2.705+/-0.001 $\chi^2$/NDF: 110342511.2/93

# asym_cav4cQ_mean vs Slug, Sign Corrected




Right In: -78.370+/-73.570 $\chi^2$/NDF: 20.5/19

Left Out: 99.601+/-48.250 $\chi^2$/NDF:12.7/24

Right Out: -124.068+/-65.791 $\chi^2$/NDF: 18.1/25

Left In: 119.345+/-46.957 $\chi^2$/NDF:9.3/22

Left: 109.741+/-33.651 $\chi^2$/NDF: 22.1/47

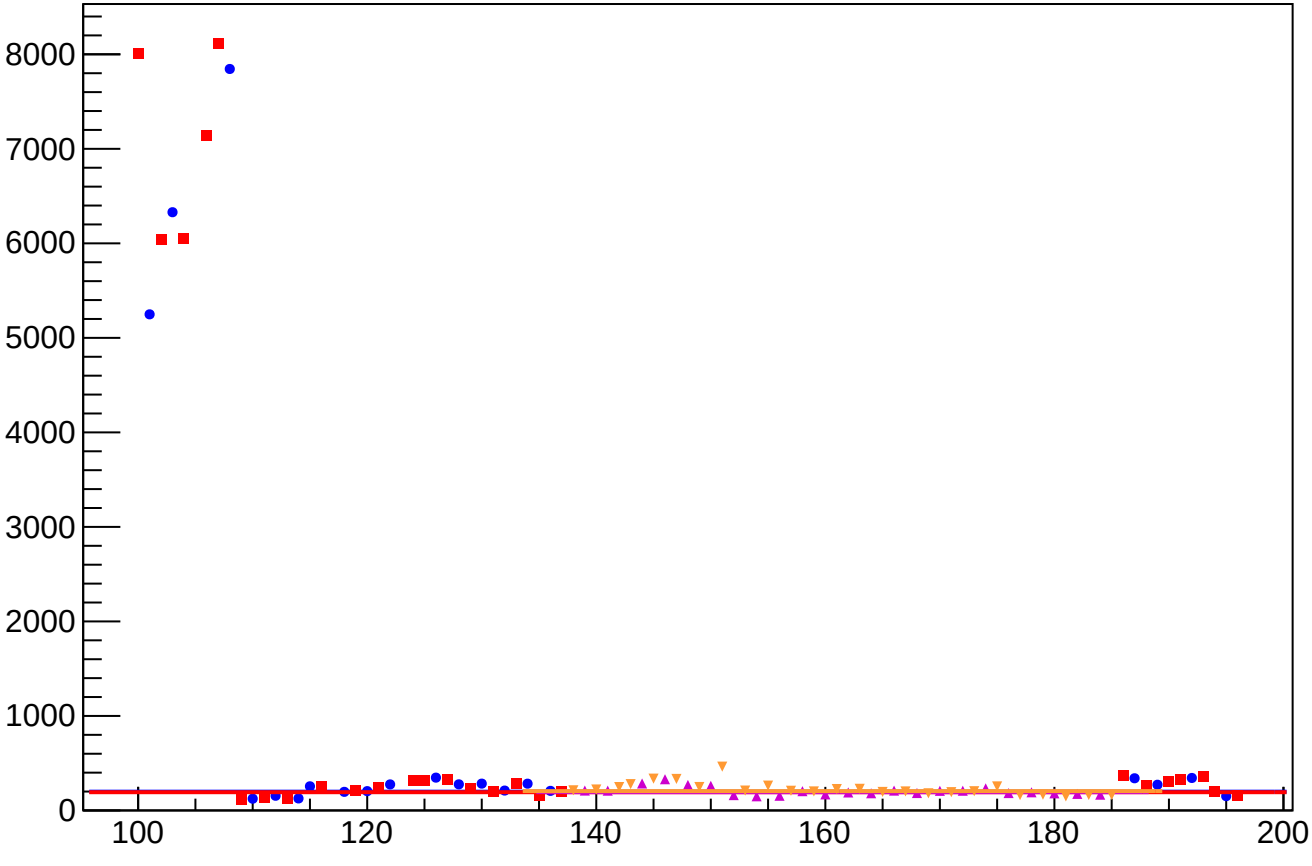
Right: -103.762+/-49.042 $\chi^2$/NDF: 38.8/45

In: 62.115+/-39.582 $\chi^2$/NDF:34.9/42

Out: 21.375+/-38.908 $\chi^2$/NDF:38.4/50

All: 41.396+/-27.747 $\chi^2$/NDF: 73.8/93

# asym_cav4cQ_rms vs Slug, Sign Corrected




Right In: 198.653+/-0.052 $\chi^2$/NDF: 4615060.7/19

Left Out: 204.581+/-0.034 $\chi^2$/NDF:1975114.7/24

Right Out: 193.123+/-0.047 $\chi^2$/NDF: 5388688.0/25

Left In: 193.895+/-0.033 $\chi^2$/NDF:1191589.3/22

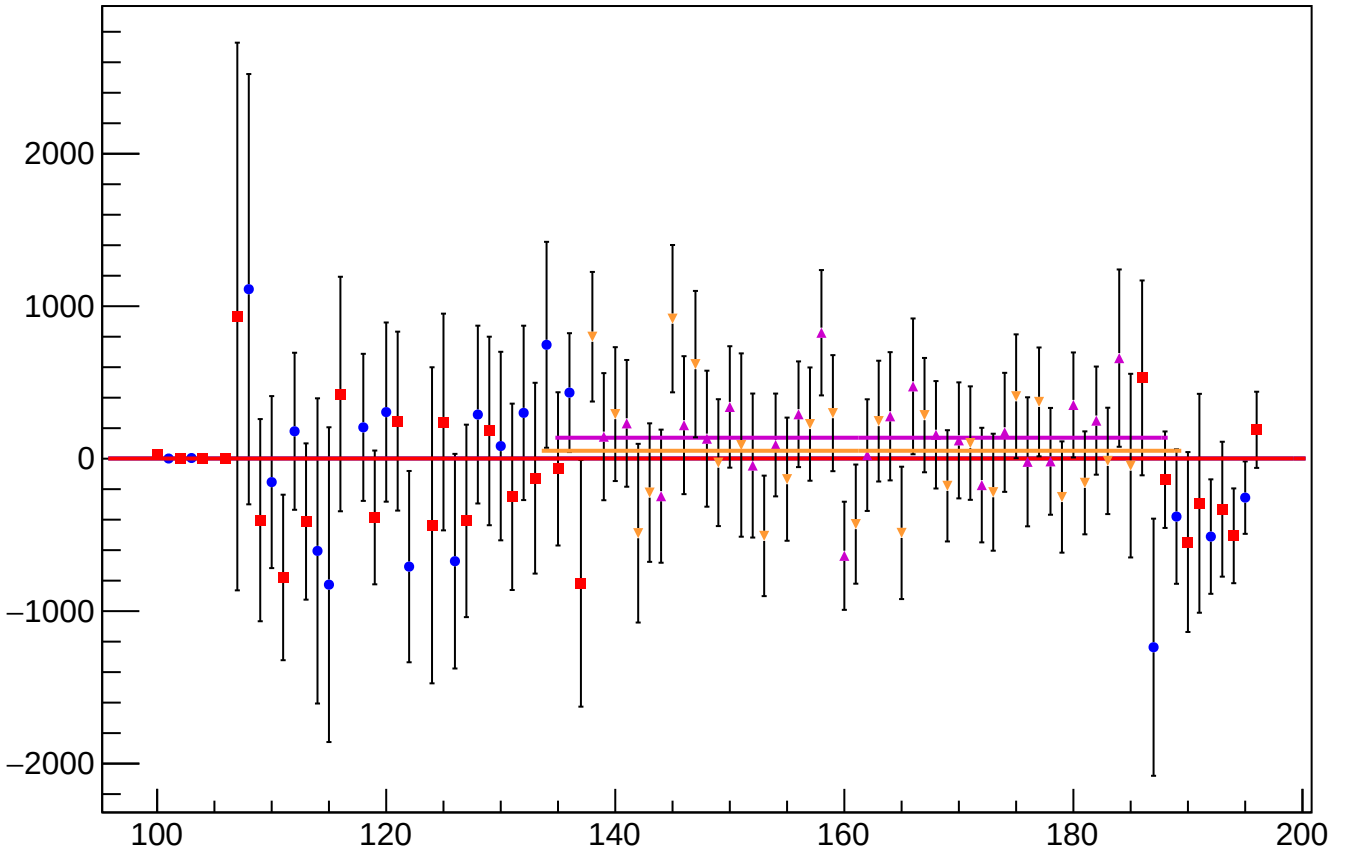
Left: 199.093+/-0.024 $\chi^2$/NDF: 3217084.5/47

Right: 195.580+/-0.035 $\chi^2$/NDF: 10010029.3/45

In: 195.272+/-0.028 $\chi^2$/NDF:5812594.0/42

Out: 200.574+/-0.028 $\chi^2$/NDF:7403252.4/50

All: 197.969+/-0.020 $\chi^2$/NDF: 13234090.8/93




Right In: 1.423+/-1.660 $\chi^2$/NDF: 13.8/19

Left Out: 51.829+/-81.555 $\chi^2$/NDF:19.4/24

Right Out: 1.079+/-1.528 $\chi^2$/NDF: 14.9/25

Left In: 137.399+/-82.111 $\chi^2$/NDF:12.2/22

Left: 94.324+/-57.864 $\chi^2$/NDF: 32.2/47

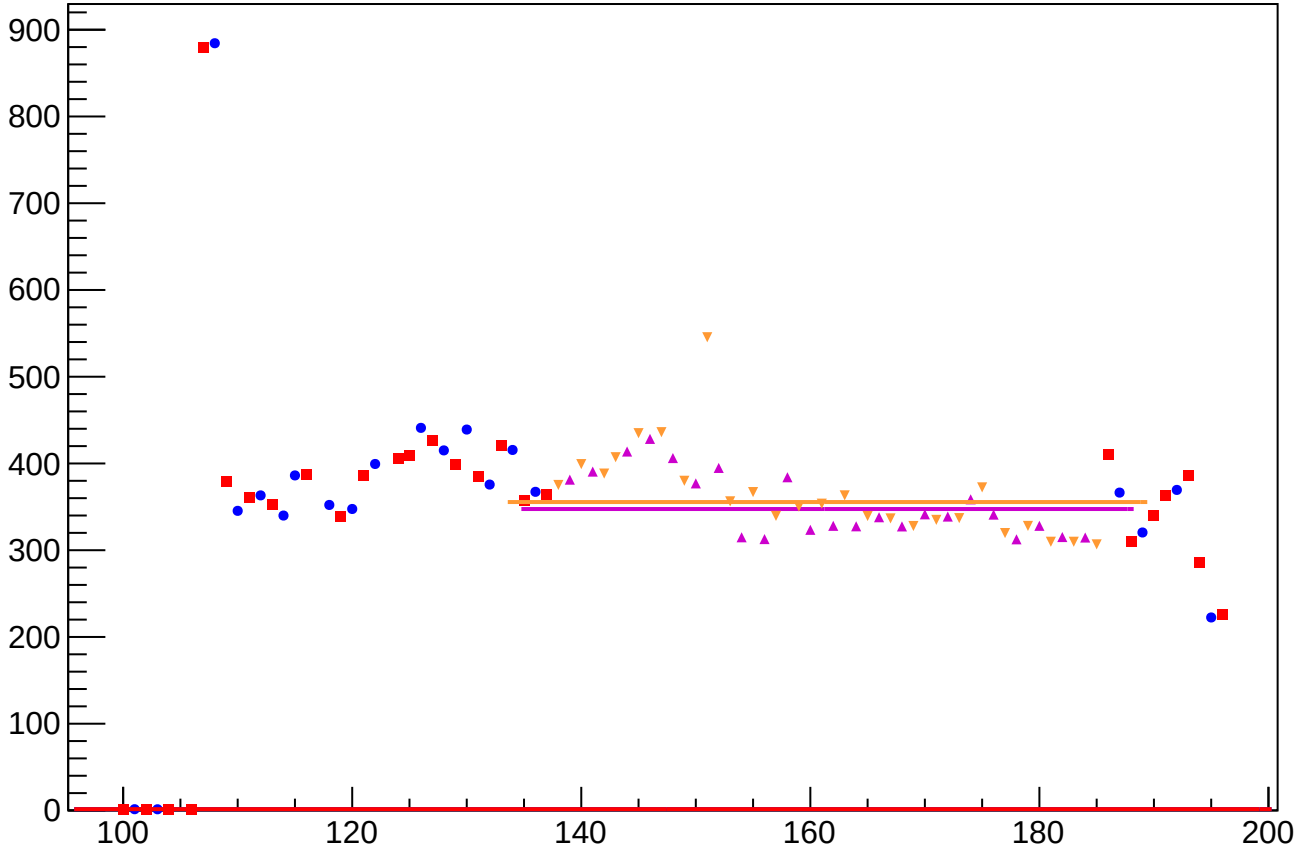
Right: 1.237+/-1.124 $\chi^2$/NDF: 28.7/45

In: 1.478+/-1.660 $\chi^2$/NDF:28.7/42

Out: 1.097+/-1.527 $\chi^2$/NDF:34.7/50

All: 1.272+/-1.124 $\chi^2$/NDF: 63.4/93

# asym_cav4dQ_rms vs Slug, Sign Corrected




Right In: 1.494+/-0.001 $\chi^2$/NDF: 16809157.3/19

Left Out: 355.535+/-0.058 $\chi^2$/NDF:528878.5/24

Right Out: 1.500+/-0.001 $\chi^2$/NDF: 19950789.8/25

Left In: 347.484+/-0.058 $\chi^2$/NDF:344530.3/22

Left: 351.537+/-0.041 $\chi^2$/NDF: 883088.0/47

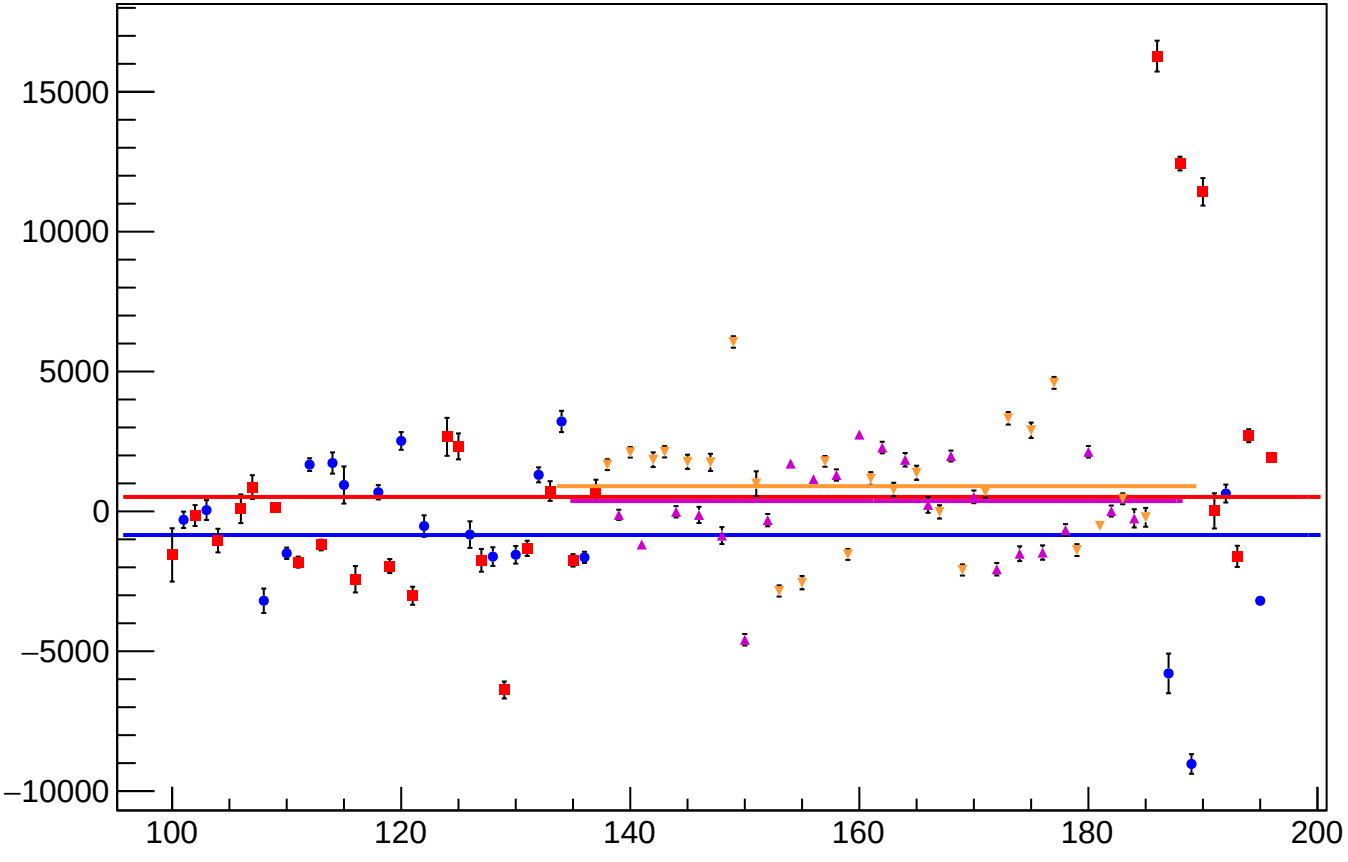
Right: 1.497+/-0.001 $\chi^2$/NDF: 36759962.8/45

In: 1.635+/-0.001 $\chi^2$/NDF:52649523.4/42

Out: 1.625+/-0.001 $\chi^2$/NDF:58156006.0/50

All: 1.630+/-0.001 $\chi^2$/NDF: 110805575.9/93

# asym_bcm0l02_mean vs Slug, Sign Corrected




Right In: -845.362+/-65.794 $\chi^2$/NDF: 1372.9/19

Left Out: 901.476+/-44.481 $\chi^2$/NDF:2411.0/24

Right Out: 516.555+/-58.383 $\chi^2$/NDF: 5079.4/25

Left In: 368.252+/-42.700 $\chi^2$/NDF:1593.0/22

Left: 623.972+/-30.804 $\chi^2$/NDF: 4078.7/47

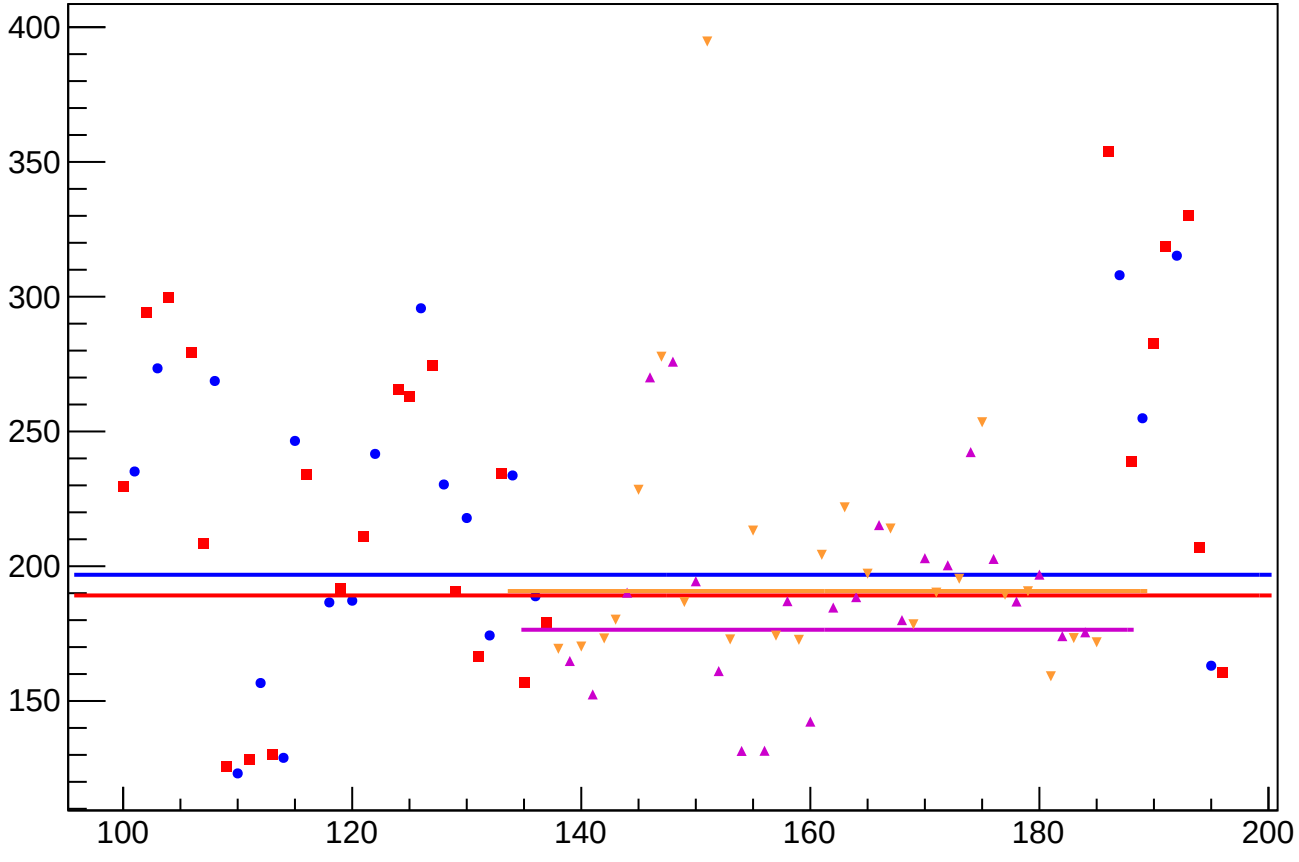
Right: -83.412+/-43.669 $\chi^2$/NDF: 6692.0/45

In: 8.584+/-35.818 $\chi^2$/NDF:3205.3/42

Out: 760.104+/-35.382 $\chi^2$/NDF:7517.8/50

All: 388.942+/-25.172 $\chi^2$/NDF: 10946.0/93

# asym_bcm0l02_rms vs Slug, Sign Corrected




Right In: 196.828+/-0.047 $\chi^2$/NDF: 1216526.8/19

Left Out: 190.801+/-0.031 $\chi^2$/NDF:1019598.1/24

Right Out: 189.159+/-0.041 $\chi^2$/NDF: 2044026.2/25

Left In: 176.431+/-0.030 $\chi^2$/NDF:1257661.0/22

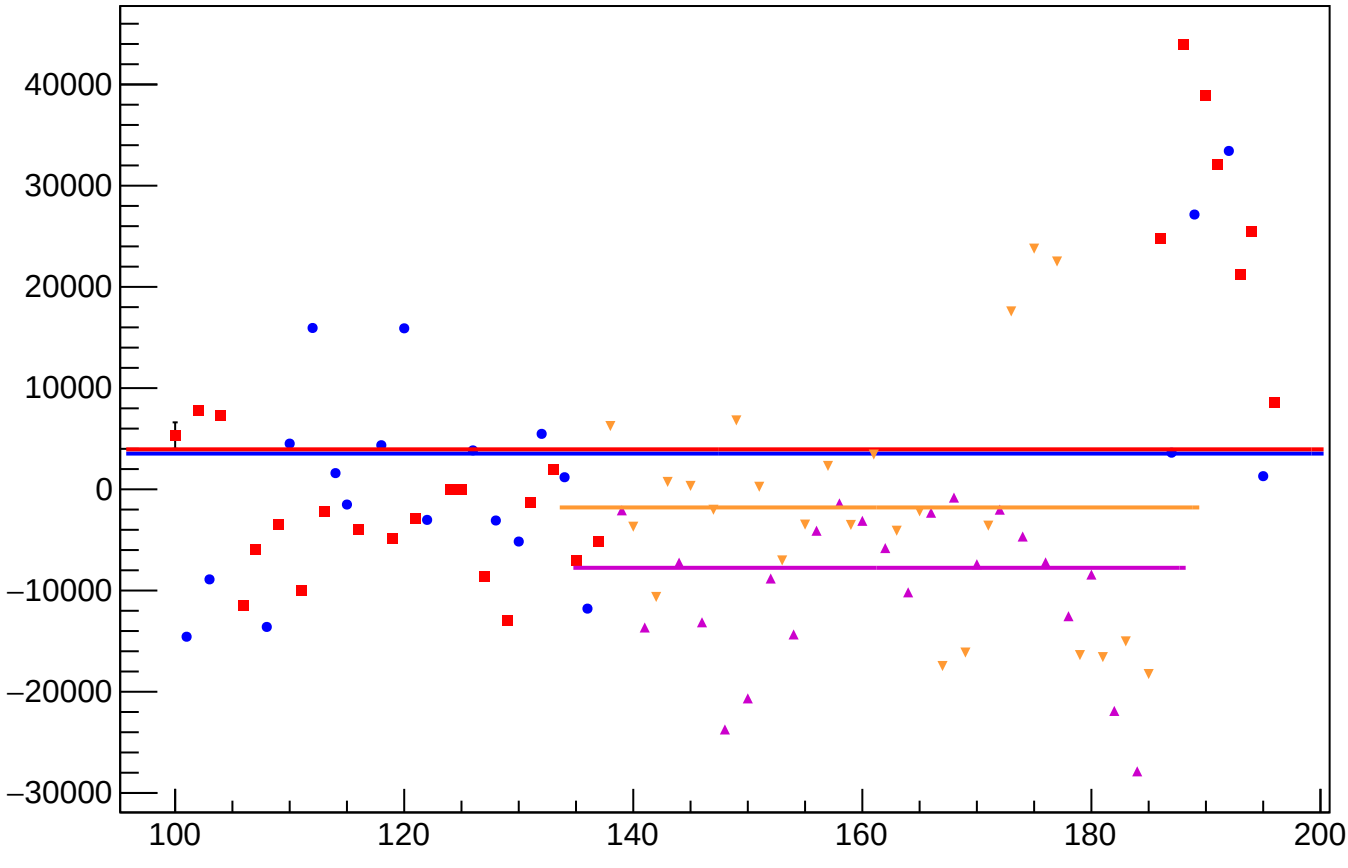
Left: 183.323+/-0.022 $\chi^2$/NDF: 2385884.9/47

Right: 192.537+/-0.031 $\chi^2$/NDF: 3275755.2/45

In: 182.476+/-0.025 $\chi^2$/NDF:2609431.5/42

Out: 190.198+/-0.025 $\chi^2$/NDF:3064625.4/50

All: 186.384+/-0.018 $\chi^2$/NDF: 5721103.3/93




Right In: 3531.955+/-48.702 $\chi^2$/NDF: 70211.5/19

Left Out: -1790.289+/-40.910 $\chi^2$/NDF:65745.9/24

Right Out: 3951.030+/-44.375 $\chi^2$/NDF: 128845.4/25

Left In: -7754.468+/-42.571 $\chi^2$/NDF:23278.0/22

Left: -4653.749+/-29.498 $\chi^2$/NDF: 99228.2/47

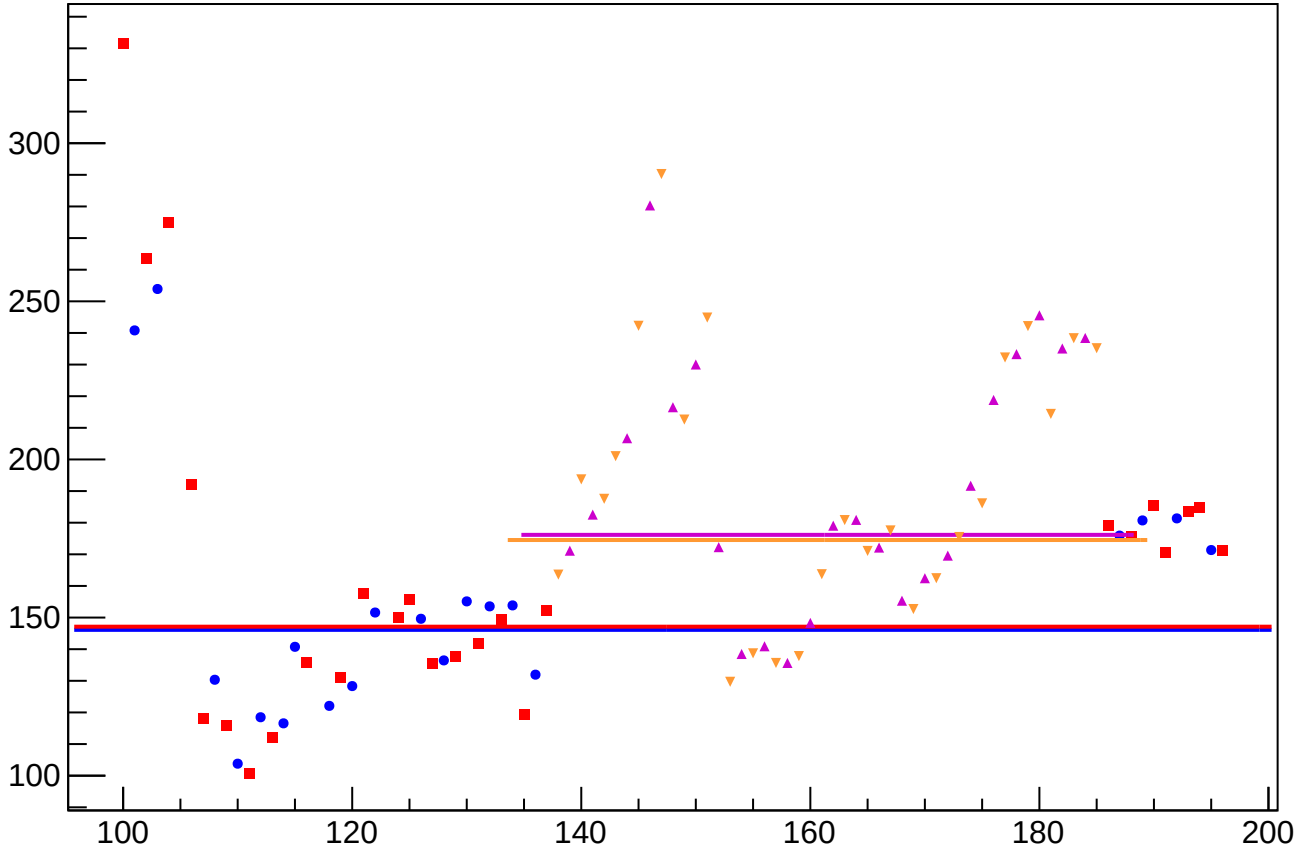
Right: 3760.936+/-32.801 $\chi^2$/NDF: 199097.3/45

In: -2866.009+/-32.052 $\chi^2$/NDF:123933.3/42

Out: 847.519+/-30.078 $\chi^2$/NDF:203640.2/50

All: -891.372+/-21.933 $\chi^2$/NDF: 334711.1/93

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 146.114+/-0.034 $\chi^2$/NDF: 855005.6/19

Left Out: 174.520+/-0.029 $\chi^2$/NDF:1659469.6/24

Right Out: 147.116+/-0.031 $\chi^2$/NDF: 1277148.9/25

Left In: 176.155+/-0.030 $\chi^2$/NDF:1367059.2/22

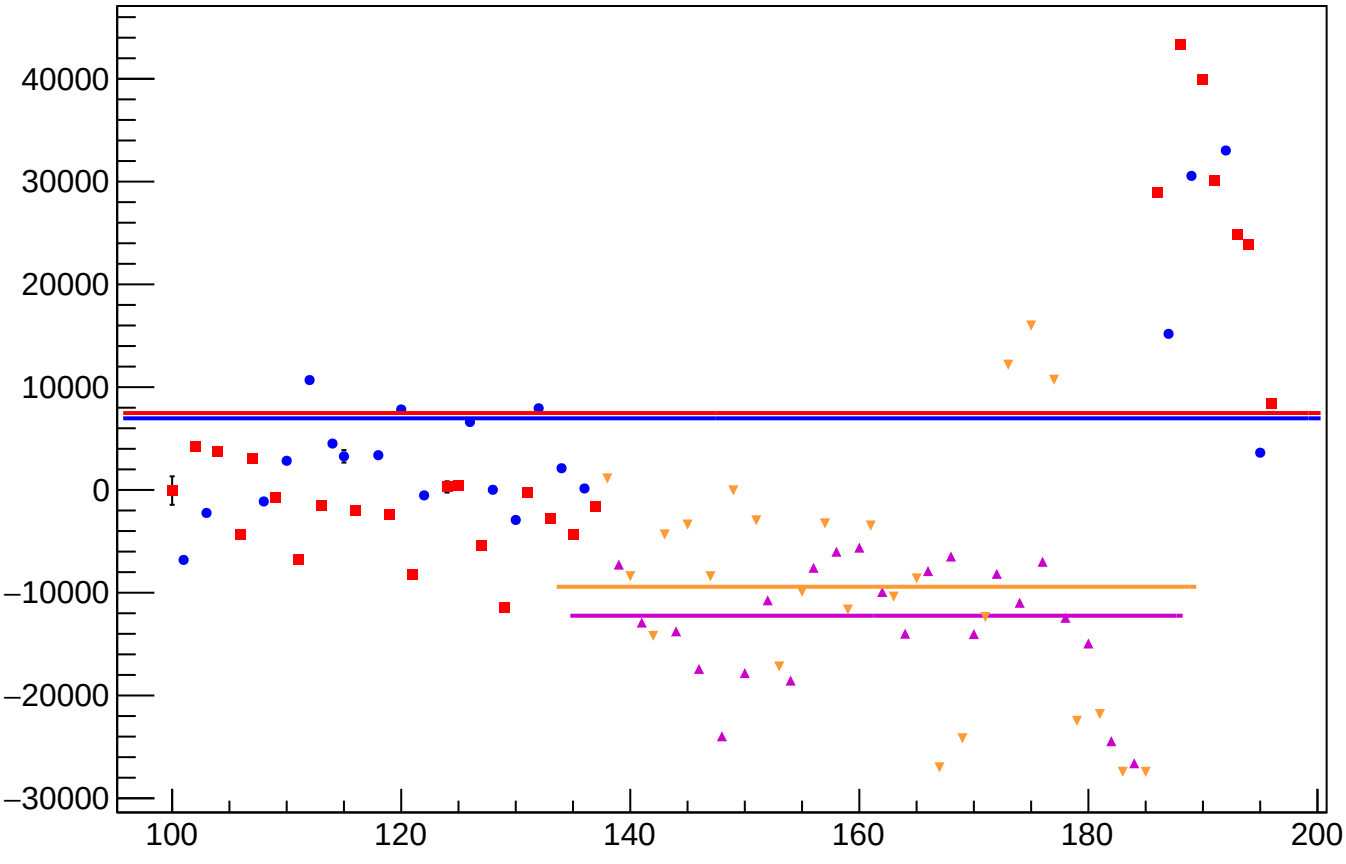
Left: 175.305+/-0.021 $\chi^2$/NDF: 3028060.8/47

Right: 146.661+/-0.023 $\chi^2$/NDF: 2132616.7/45

In: 163.143+/-0.023 $\chi^2$/NDF:2653416.6/42

Out: 161.930+/-0.021 $\chi^2$/NDF:3348959.7/50

All: 162.498+/-0.016 $\chi^2$/NDF: 6003901.0/93




Right In: 6967.673+/-59.406 $\chi^2$/NDF: 32480.0/19

Left Out: -9420.181+/-45.698 $\chi^2$/NDF:64719.0/24

Right Out: 7481.989+/-52.466 $\chi^2$/NDF: 97546.8/25

Left In: -12238.678+/-44.195 $\chi^2$/NDF:16015.8/22

Left: -10876.538+/-31.769 $\chi^2$/NDF: 82700.4/47

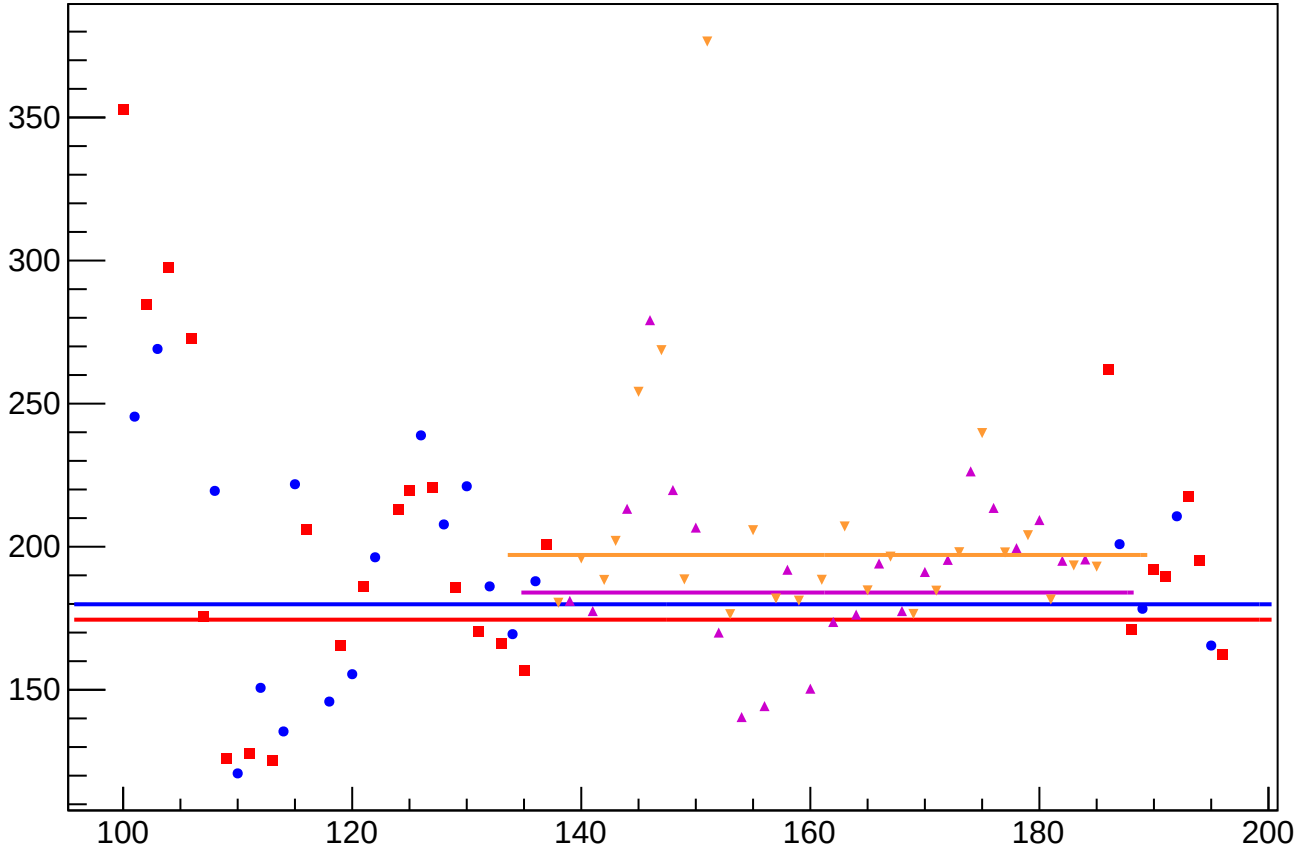
Right: 7256.614+/-39.325 $\chi^2$/NDF: 130068.9/45

In: -5395.882+/-35.459 $\chi^2$/NDF:115782.9/42

Out: -2128.911+/-34.459 $\chi^2$/NDF:221279.6/50

All: -3715.712+/-24.712 $\chi^2$/NDF: 341428.1/9

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 179.886+/-0.042 $\chi^2$/NDF: 733999.9/19

Left Out: 197.122+/-0.032 $\chi^2$/NDF:732529.8/24

Right Out: 174.510+/-0.037 $\chi^2$/NDF: 1187057.2/25

Left In: 183.985+/-0.031 $\chi^2$/NDF:829778.1/22

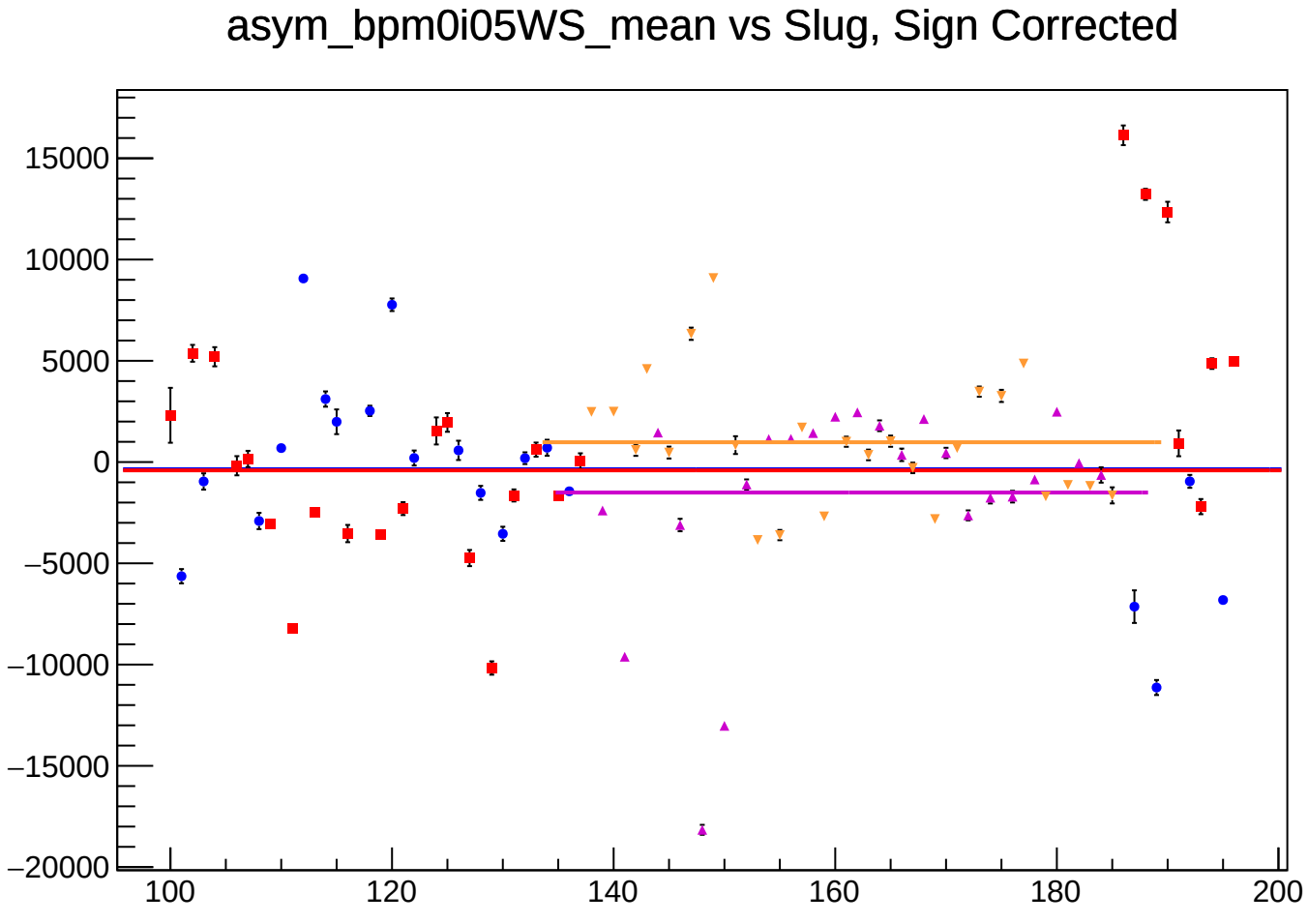
Left: 190.334+/-0.022 $\chi^2$/NDF: 1647711.2/47

Right: 176.866+/-0.028 $\chi^2$/NDF: 1930261.8/45

In: 182.525+/-0.025 $\chi^2$/NDF:1569907.3/42

Out: 187.368+/-0.024 $\chi^2$/NDF:2130840.3/50

All: 185.016+/-0.017 $\chi^2$/NDF: 3719932.0/93




Right In: -353.107+/-67.770 $\chi^2$/NDF: 5043.3/19

Left Out: 978.429+/-49.607 $\chi^2$/NDF:4322.9/24

Right Out: -408.858+/-59.674 $\chi^2$/NDF: 9155.8/25

Left In: -1505.093+/-48.051 $\chi^2$/NDF:11480.6/22

Left: -302.894+/-34.514 $\chi^2$/NDF: 17096.7/47

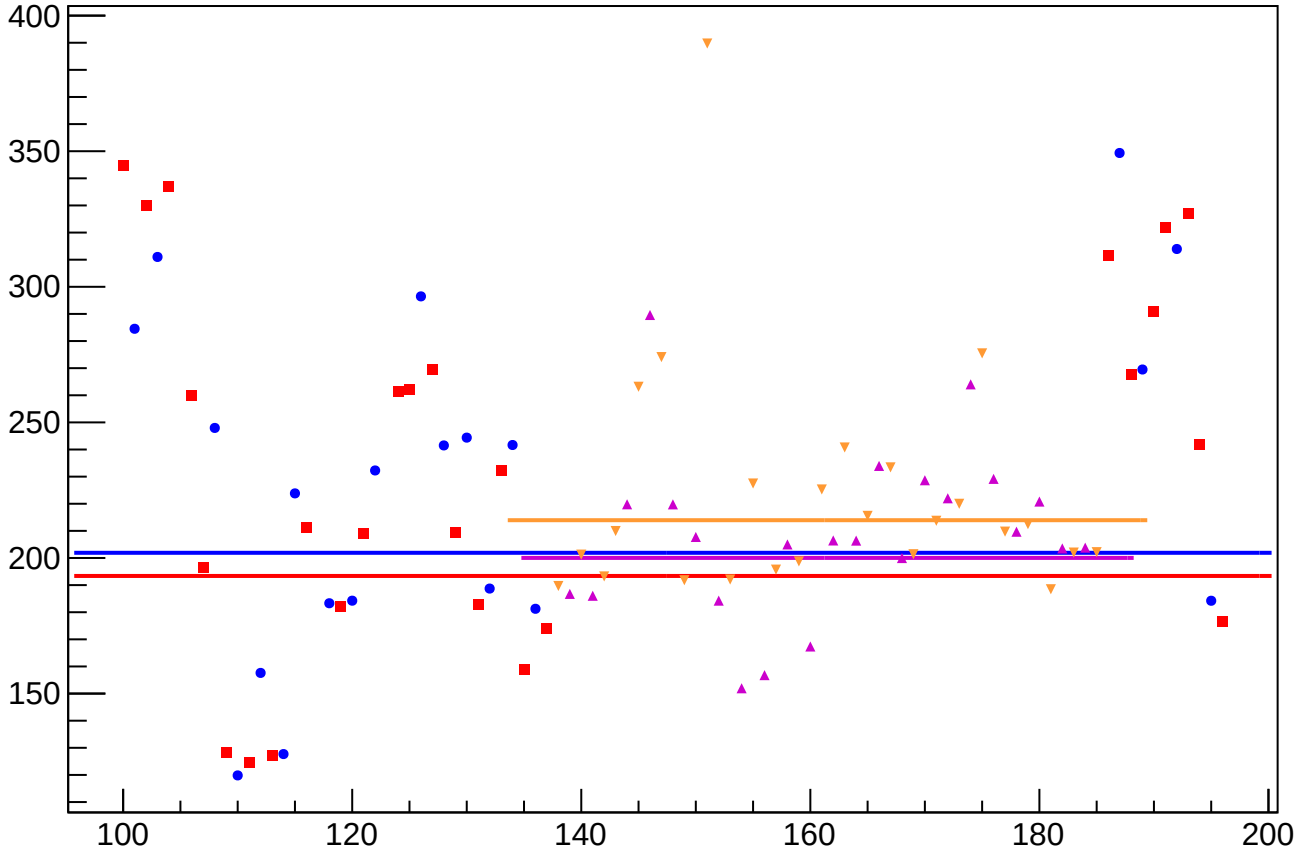
Right: -384.510+/-44.786 $\chi^2$/NDF: 14199.5/45

In: -1119.709+/-39.198 $\chi^2$/NDF:16716.2/42

Out: 411.509+/-38.147 $\chi^2$/NDF:13798.4/50

All: -333.305+/-27.338 $\chi^2$/NDF: 31298.3/93

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 201.914+/-0.048 $\chi^2$/NDF: 1383228.2/19

Left Out: 213.931+/-0.035 $\chi^2$/NDF:733638.6/24

Right Out: 193.374+/-0.042 $\chi^2$/NDF: 2227333.2/25

Left In: 200.031+/-0.034 $\chi^2$/NDF:785525.4/22

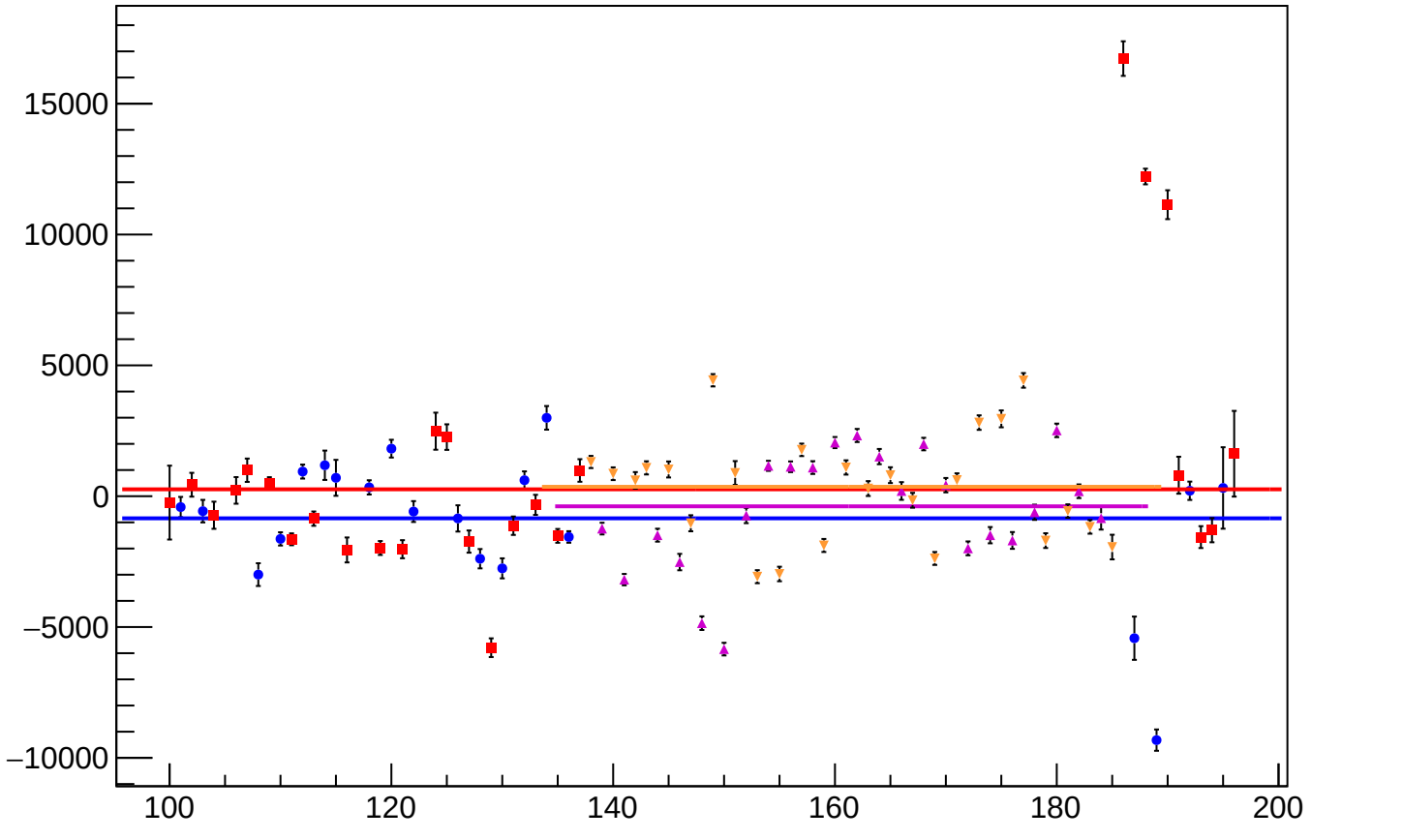
Left: 206.759+/-0.024 $\chi^2$/NDF: 1600185.7/47

Right: 197.104+/-0.032 $\chi^2$/NDF: 3628448.0/45

In: 200.661+/-0.028 $\chi^2$/NDF:2169781.4/42

Out: 205.531+/-0.027 $\chi^2$/NDF:3101320.4/50

All: 203.162+/-0.019 $\chi^2$/NDF: 5286956.8/93




Right In: -845.583+/-81.884 $\chi^2$/NDF: 796.8/19

Left Out: 358.680+/-54.992 $\chi^2$/NDF:1418.9/24

Right Out: 263.228+/-74.103 $\chi^2$/NDF: 3268.7/25

Left In: -386.941+/-53.528 $\chi^2$/NDF:1804.2/22

Left: -24.183+/-38.357 $\chi^2$/NDF: 3317.4/47

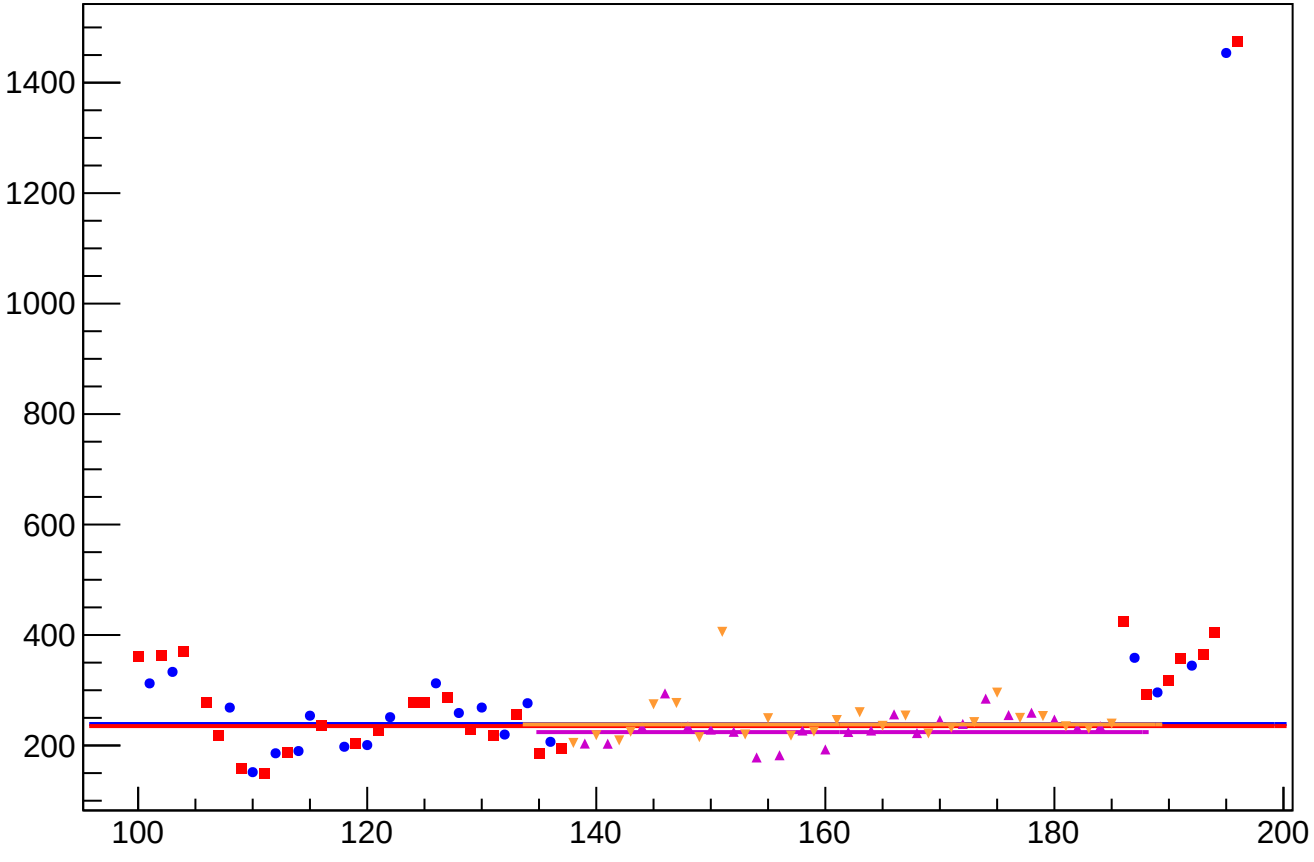
Right: -236.001+/-54.944 $\chi^2$/NDF: 4166.4/45

In: -524.255+/-44.804 $\chi^2$/NDF:2623.0/42

Out: 324.782+/-44.160 $\chi^2$/NDF:4688.7/50

All: -93.588+/-31.451 $\chi^2$/NDF: 7493.8/93

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 238.838+/-0.058 $\chi^2$/NDF: 2189011.3/19

Left Out: 238.199+/-0.039 $\chi^2$/NDF:567935.3/24

Right Out: 235.101+/-0.052 $\chi^2$/NDF: 3050816.2/25

Left In: 224.212+/-0.038 $\chi^2$/NDF:563231.1/22

Left: 231.017+/-0.027 $\chi^2$/NDF: 1197606.4/47

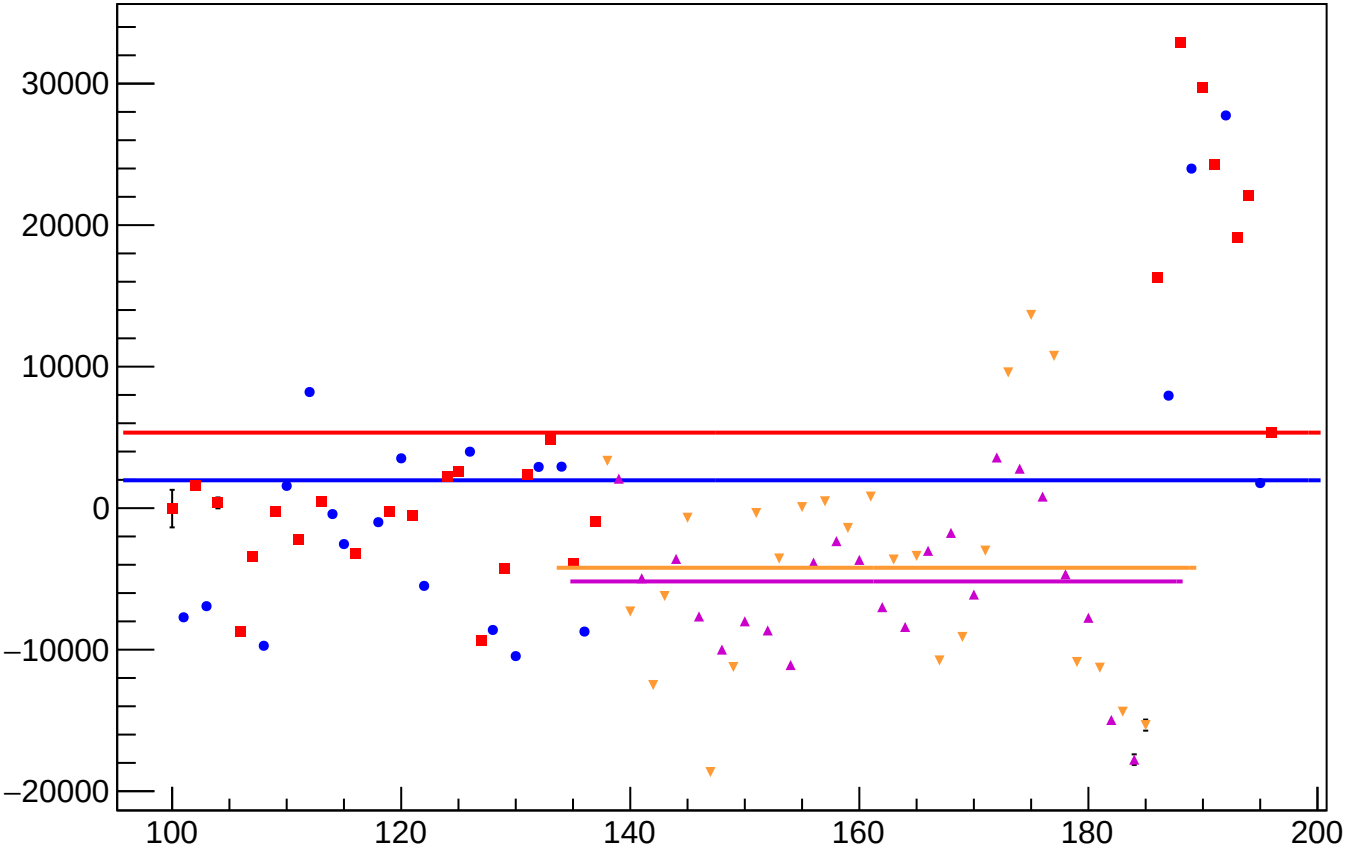
Right: 236.784+/-0.039 $\chi^2$/NDF: 5242118.6/45

In: 228.591+/-0.032 $\chi^2$/NDF:2796950.3/42

Out: 237.099+/-0.031 $\chi^2$/NDF:3621006.6/50

All: 232.907+/-0.022 $\chi^2$/NDF: 6454536.6/93

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: 1968.852+/-41.418 $\chi^2$/NDF: 68454.8/19

Left Out: -4210.601+/-30.828 $\chi^2$/NDF:56802.7/24

Right Out: 5337.653+/-37.419 $\chi^2$/NDF: 101168.5/25

Left In: -5178.213+/-31.969 $\chi^2$/NDF:18541.3/22

Left: -4676.831+/-22.191 $\chi^2$/NDF: 75818.6/47

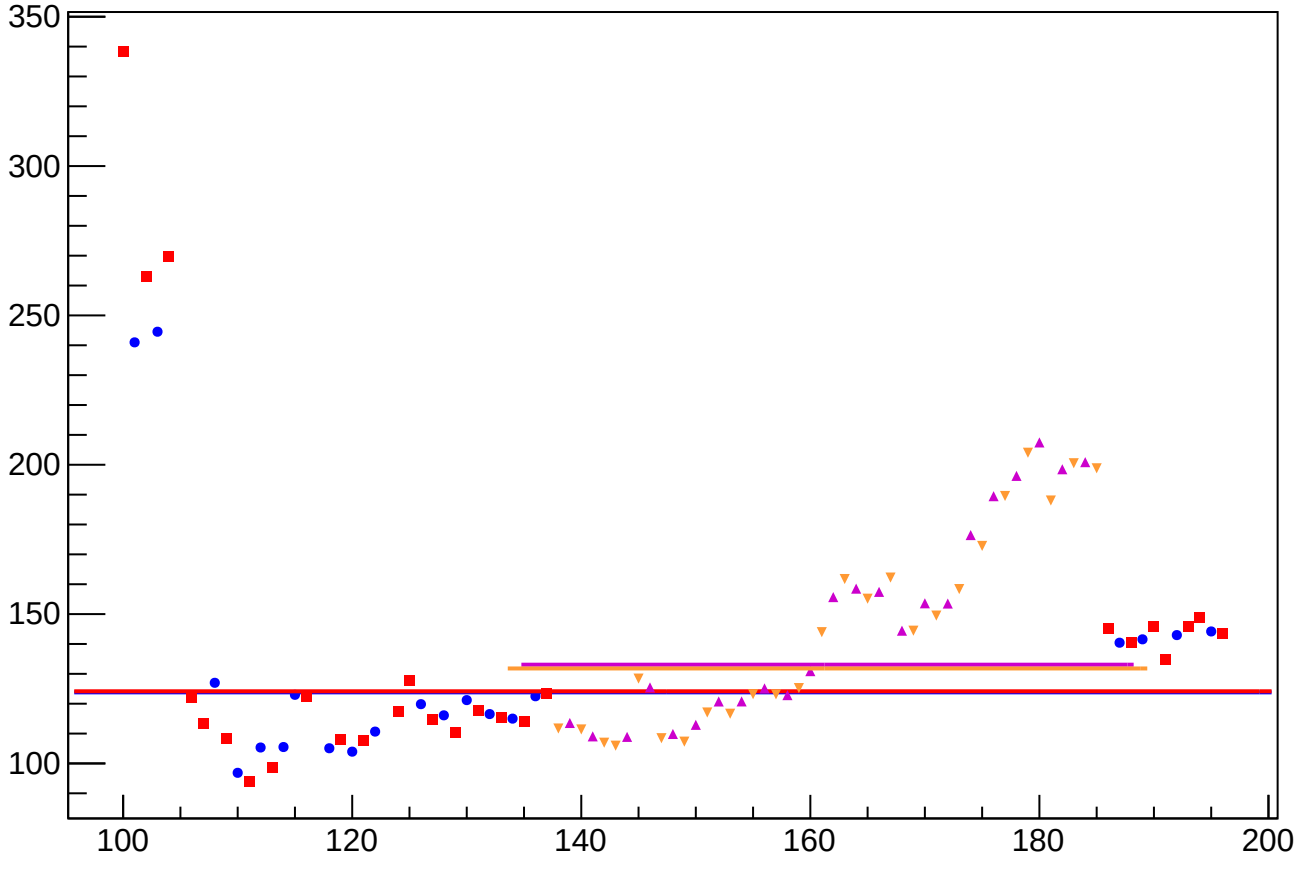
Right: 3823.703+/-27.766 $\chi^2$/NDF: 173265.8/45

In: -2509.865+/-25.307 $\chi^2$/NDF:105655.7/42

Out: -350.021+/-23.793 $\chi^2$/NDF:196757.4/50

All: -1363.407+/-17.335 $\chi^2$/NDF: 306279.3/9

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 123.799+/-0.029 $\chi^2$/NDF: 850316.3/19

Left Out: 131.798+/-0.022 $\chi^2$/NDF:1544340.3/24

Right Out: 124.160+/-0.026 $\chi^2$/NDF: 1110648.6/25

Left In: 133.061+/-0.023 $\chi^2$/NDF:1418252.2/22

Left: 132.406+/-0.016 $\chi^2$/NDF: 2964211.9/47

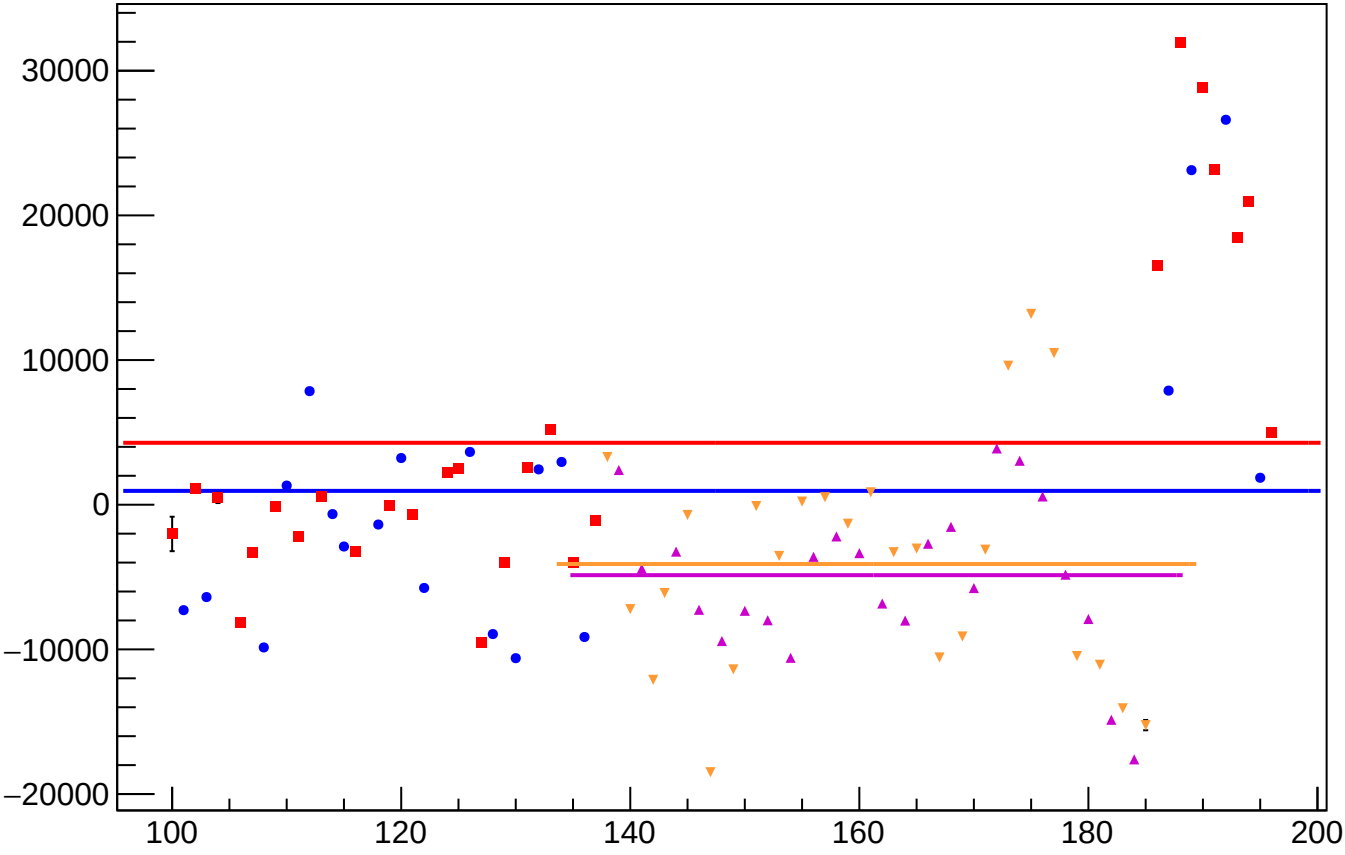
Right: 123.997+/-0.020 $\chi^2$/NDF: 1961048.6/45

In: 129.603+/-0.018 $\chi^2$/NDF:2331252.2/42

Out: 128.709+/-0.017 $\chi^2$/NDF:2704626.7/50

All: 129.129+/-0.012 $\chi^2$/NDF: 5037202.8/93

# asym_bpm2i01WS_mean vs Slug, Sign Corrected




Right In: 956.350+/-36.941 $\chi^2$/NDF: 74207.1/19

Left Out: -4098.897+/-27.771 $\chi^2$/NDF:66271.3/24

Right Out: 4280.596+/-33.890 $\chi^2$/NDF: 107101.4/25

Left In: -4869.740+/-28.809 $\chi^2$/NDF:21913.6/22

Left: -4470.191+/-19.994 $\chi^2$/NDF: 88556.0/47

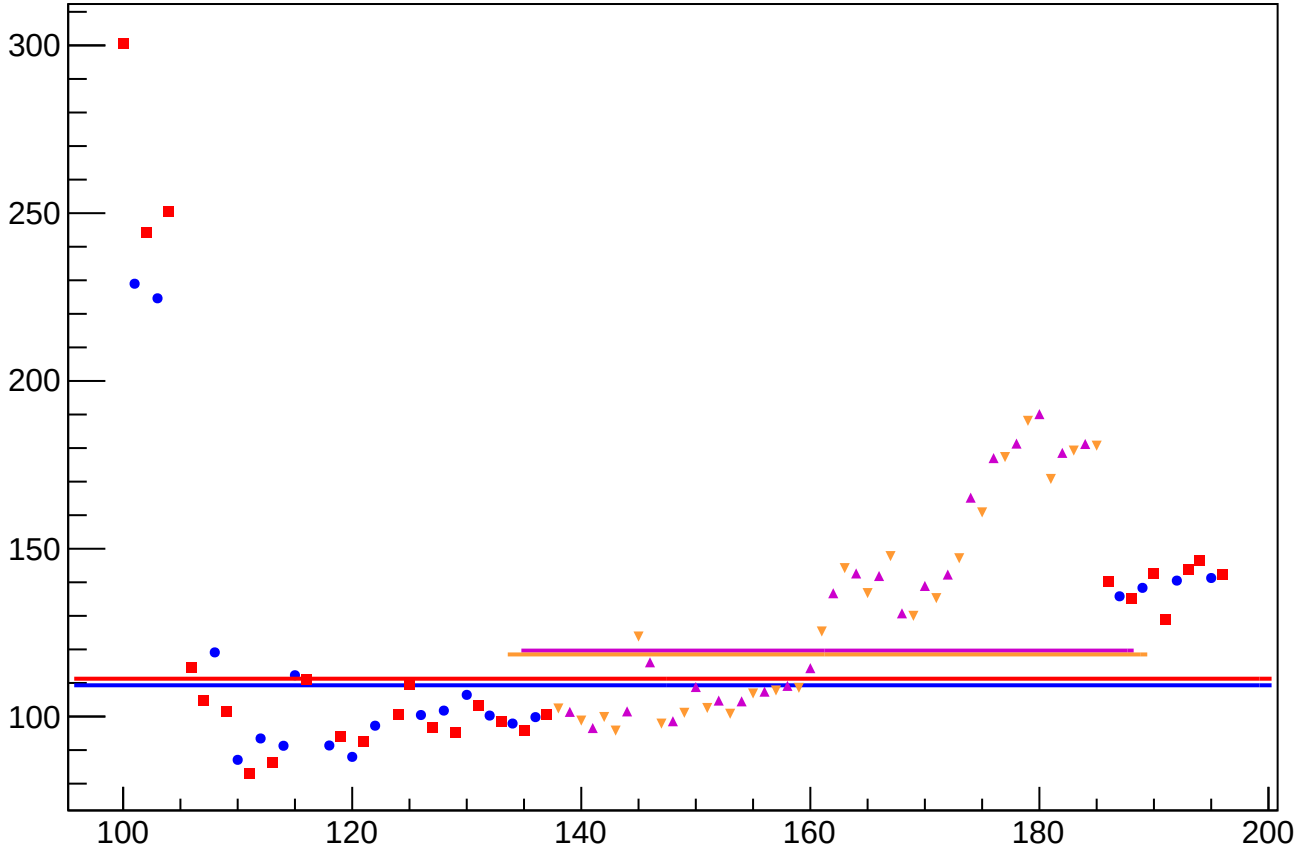
Right: 2761.412+/-24.973 $\chi^2$/NDF: 185705.6/45

In: -2666.442+/-22.717 $\chi^2$/NDF:111587.4/42

Out: -732.506+/-21.480 $\chi^2$/NDF:209947.9/50

All: -1645.392+/-15.608 $\chi^2$/NDF: 325361.6/9

# asym_bpm2i01WS_rms vs Slug, Sign Corrected




Right In: 109.309+/-0.026 $\chi^2$/NDF: 1123504.3/19

Left Out: 118.502+/-0.020 $\chi^2$/NDF:1627138.9/24

Right Out: 111.272+/-0.024 $\chi^2$/NDF: 1463845.3/25

Left In: 119.645+/-0.020 $\chi^2$/NDF:1512380.5/22

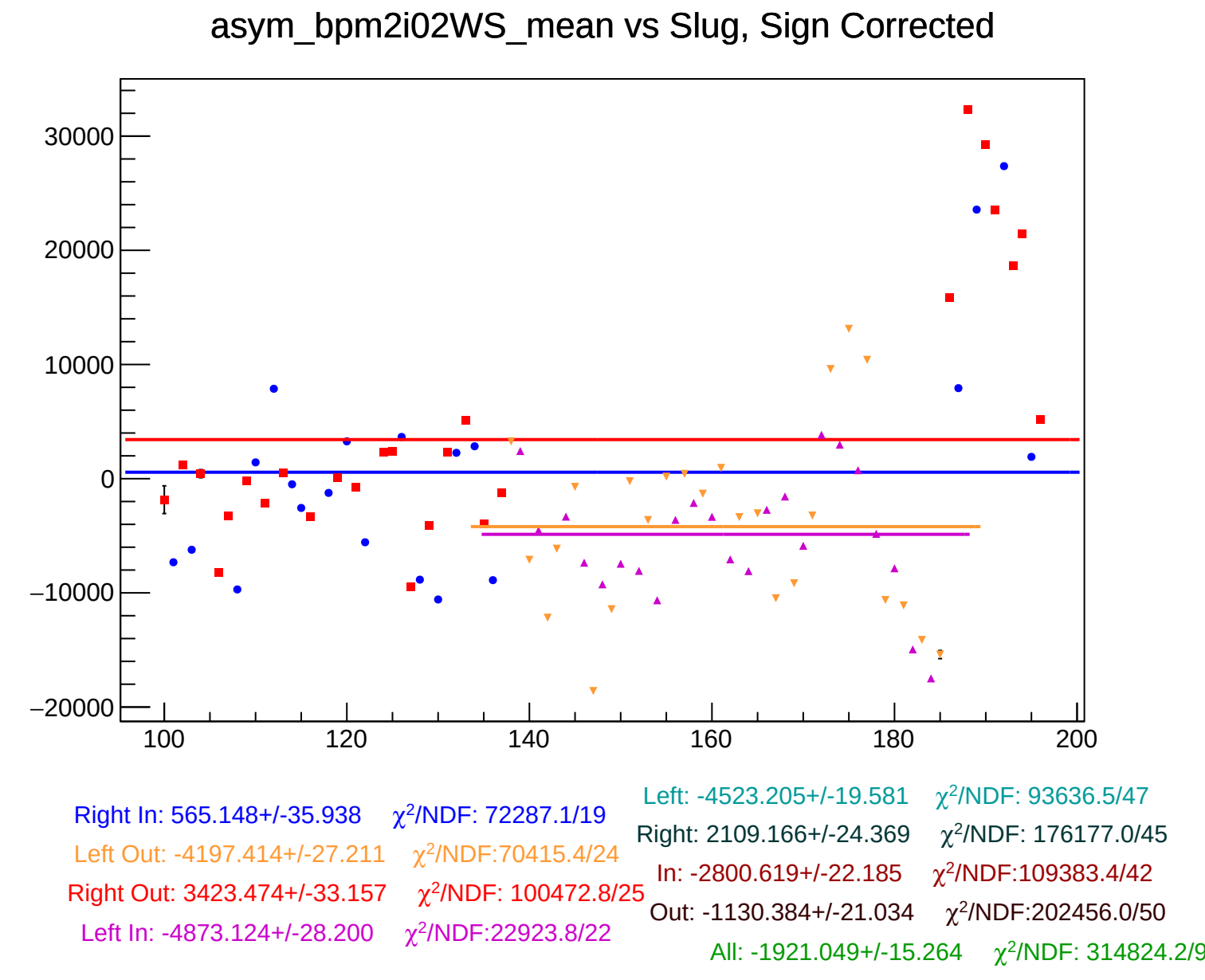
Left: 119.052+/-0.014 $\chi^2$/NDF: 3141151.7/47

Right: 110.375+/-0.018 $\chi^2$/NDF: 2590418.3/45

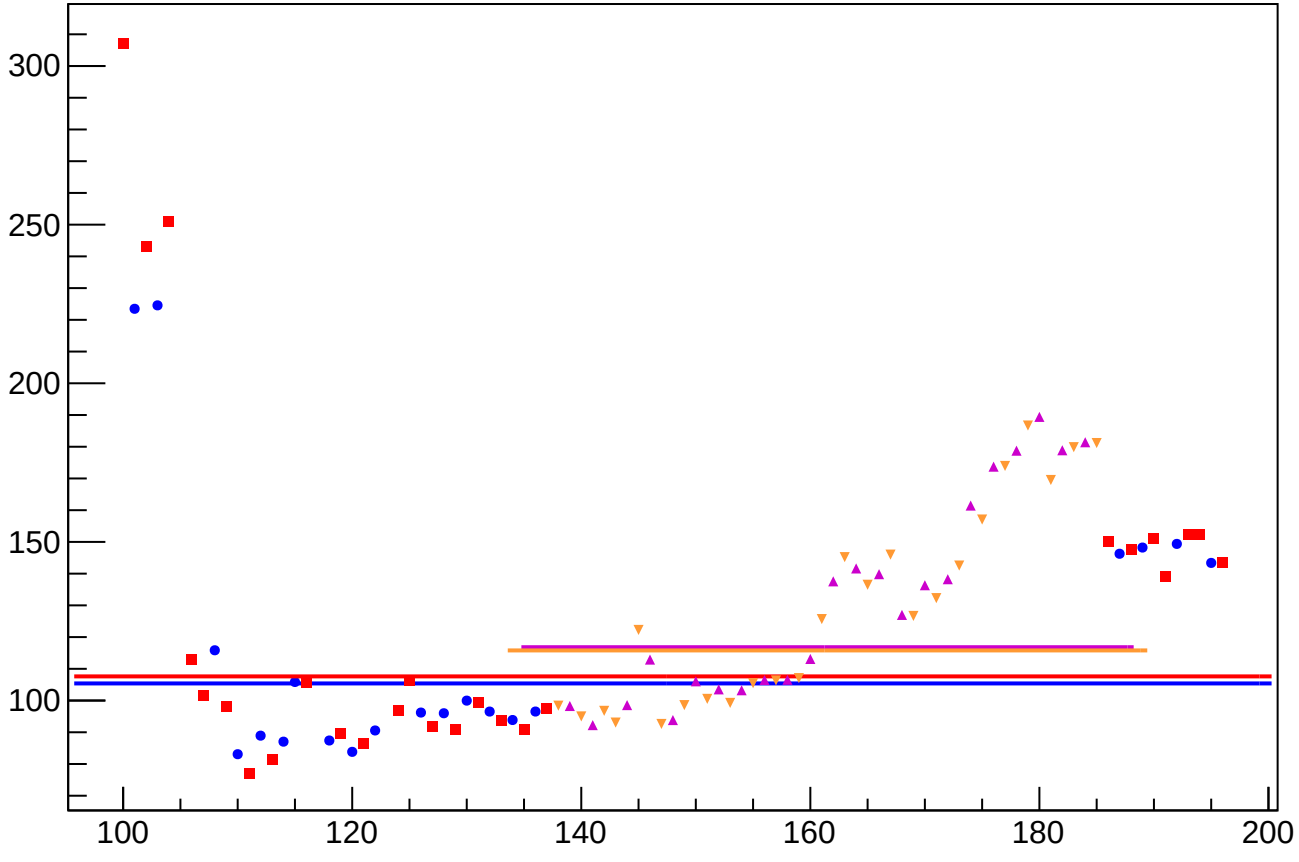
In: 115.736+/-0.016 $\chi^2$/NDF:2733245.6/42

Out: 115.597+/-0.015 $\chi^2$/NDF:3145429.4/50

All: 115.663+/-0.011 $\chi^2$/NDF: 5878714.2/93


asym_bpm2i02WS_mean vs Slug, Sign Corrected
30000
20000
10000
0
−10000
−20000
100
120
140
160
180
200
Right In: 565.148+/-35.938 χ²/NDF: 72287.1/19
Left Out: -4197.414+/-27.211 χ²/NDF:70415.4/24
Right Out: 3423.474+/-33.157 χ²/NDF: 100472.8/25
Left In: -4873.124+/-28.200 χ²/NDF:22923.8/22
Left: -4523.205+/-19.581 χ²/NDF: 93636.5/47
Right: 2109.166+/-24.369 χ²/NDF: 176177.0/45
In: -2800.619+/-22.185 χ²/NDF:109383.4/42
Out: -1130.384+/-21.034 χ²/NDF:202456.0/50
All: -1921.049+/-15.264 χ²/NDF: 314824.2/9

# asym_bpm2i02WS_rms vs Slug, Sign Corrected




Right In: 105.392+/-0.025 $\chi^2$/NDF: 1346958.9/19

Left Out: 115.798+/-0.019 $\chi^2$/NDF:1749021.2/24

Right Out: 107.612+/-0.023 $\chi^2$/NDF: 1880382.2/25

Left In: 116.808+/-0.020 $\chi^2$/NDF:1617645.9/22

Left: 116.285+/-0.014 $\chi^2$/NDF: 3367997.1/47

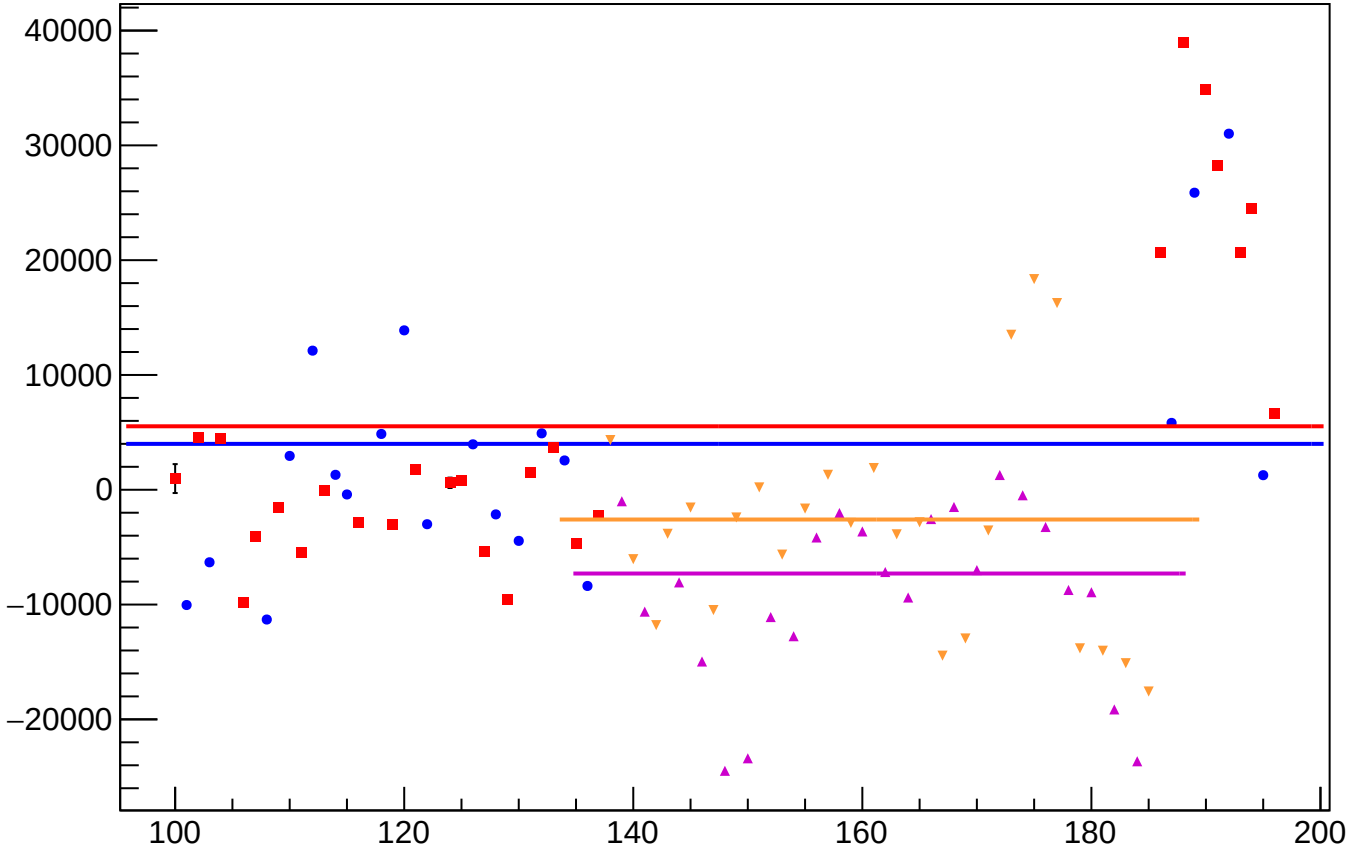
Right: 106.591+/-0.017 $\chi^2$/NDF: 3231464.3/45

In: 112.458+/-0.016 $\chi^2$/NDF:3089530.0/42

Out: 112.503+/-0.015 $\chi^2$/NDF:3702252.5/50

All: 112.482+/-0.011 $\chi^2$/NDF: 6791787.0/93

# asym_bpm0i01WS_mean vs Slug, Sign Corrected




Right In: 3997.195+/-49.106 $\chi^2$/NDF: 53743.8/19

Left Out: -2591.379+/-37.643 $\chi^2$/NDF:47994.7/24

Right Out: 5528.911+/-45.096 $\chi^2$/NDF: 93407.6/25

Left In: -7296.193+/-39.576 $\chi^2$/NDF:24743.4/22

Left: -4826.123+/-27.275 $\chi^2$/NDF: 80158.0/47

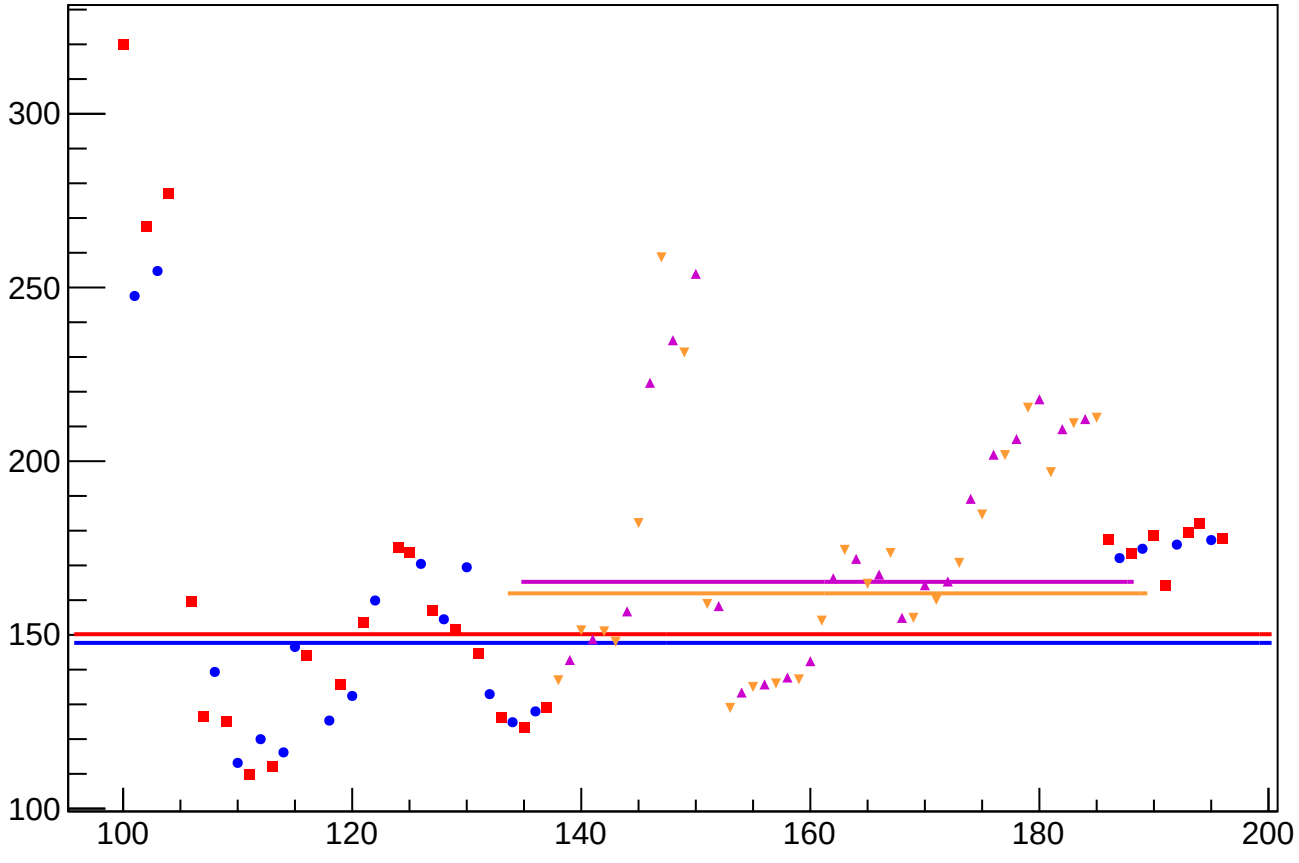
Right: 4828.133+/-33.215 $\chi^2$/NDF: 147679.3/45

In: -2849.280+/-30.814 $\chi^2$/NDF:110551.9/42

Out: 743.213+/-28.898 $\chi^2$/NDF:160511.4/50

All: -937.899+/-21.079 $\chi^2$/NDF: 278295.1/93

# asym_bpm0i01WS_rms vs Slug, Sign Corrected




Right In: 147.700+/-0.035 $\chi^2$/NDF: 839219.5/19

Left Out: 161.957+/-0.027 $\chi^2$/NDF:1144808.3/24

Right Out: 150.196+/-0.032 $\chi^2$/NDF: 1095346.5/25

Left In: 165.273+/-0.028 $\chi^2$/NDF:1179090.6/22

Left: 163.532+/-0.019 $\chi^2$/NDF: 2331268.8/47

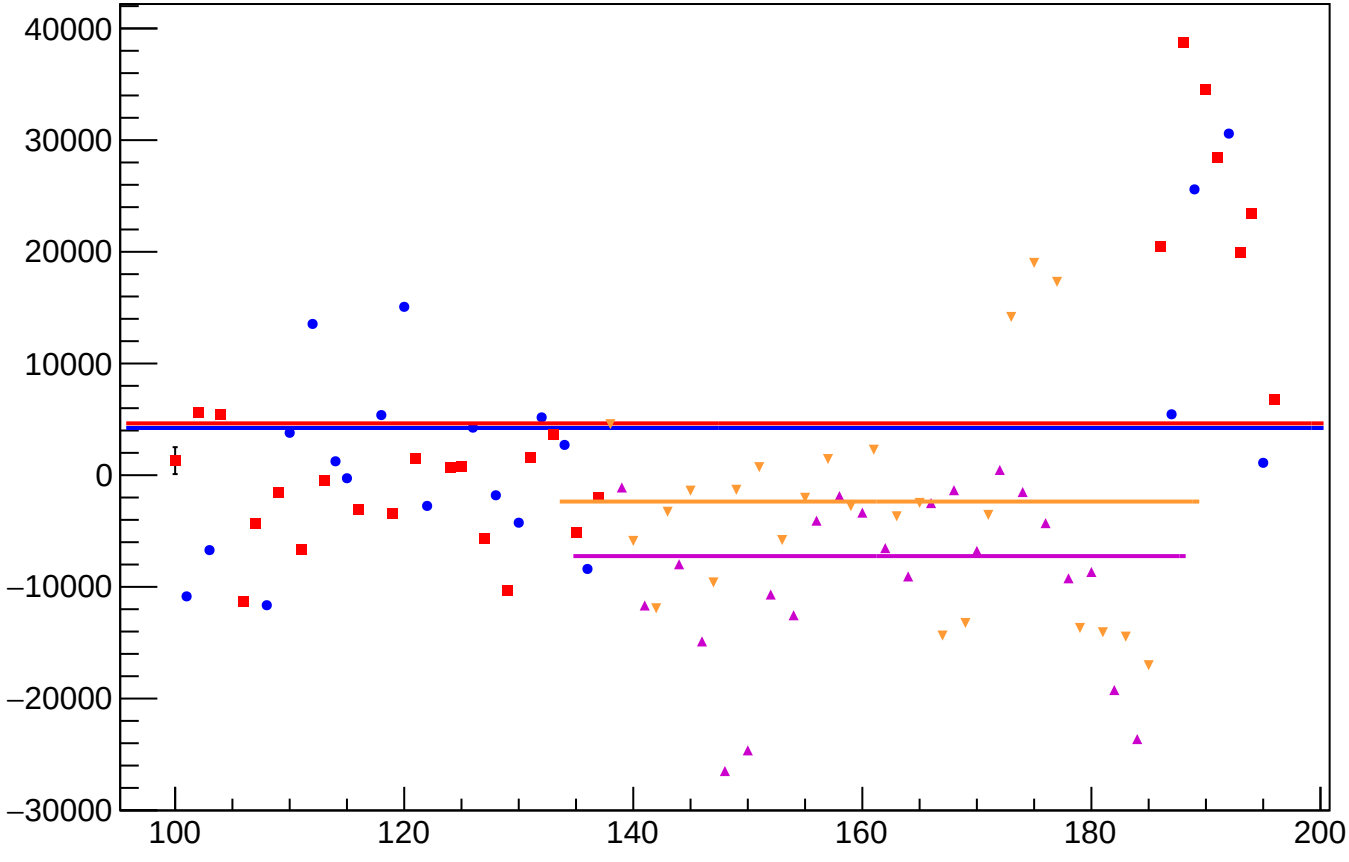
Right: 149.054+/-0.023 $\chi^2$/NDF: 1937368.0/45

In: 158.353+/-0.022 $\chi^2$/NDF:2173572.4/42

Out: 157.127+/-0.020 $\chi^2$/NDF:2320328.7/50

All: 157.701+/-0.015 $\chi^2$/NDF: 4495585.5/93

# asym_bpm0i01aWS_mean vs Slug, Sign Corrected




Right In: 4226.977+/-41.406 $\chi^2$/NDF: 74229.4/19

Left Out: -2360.753+/-33.680 $\chi^2$/NDF:58566.4/24

Right Out: 4639.277+/-37.821 $\chi^2$/NDF: 129228.5/25

Left In: -7244.763+/-35.507 $\chi^2$/NDF:30447.9/22

Left: -4673.874+/-24.436 $\chi^2$/NDF: 98973.5/47

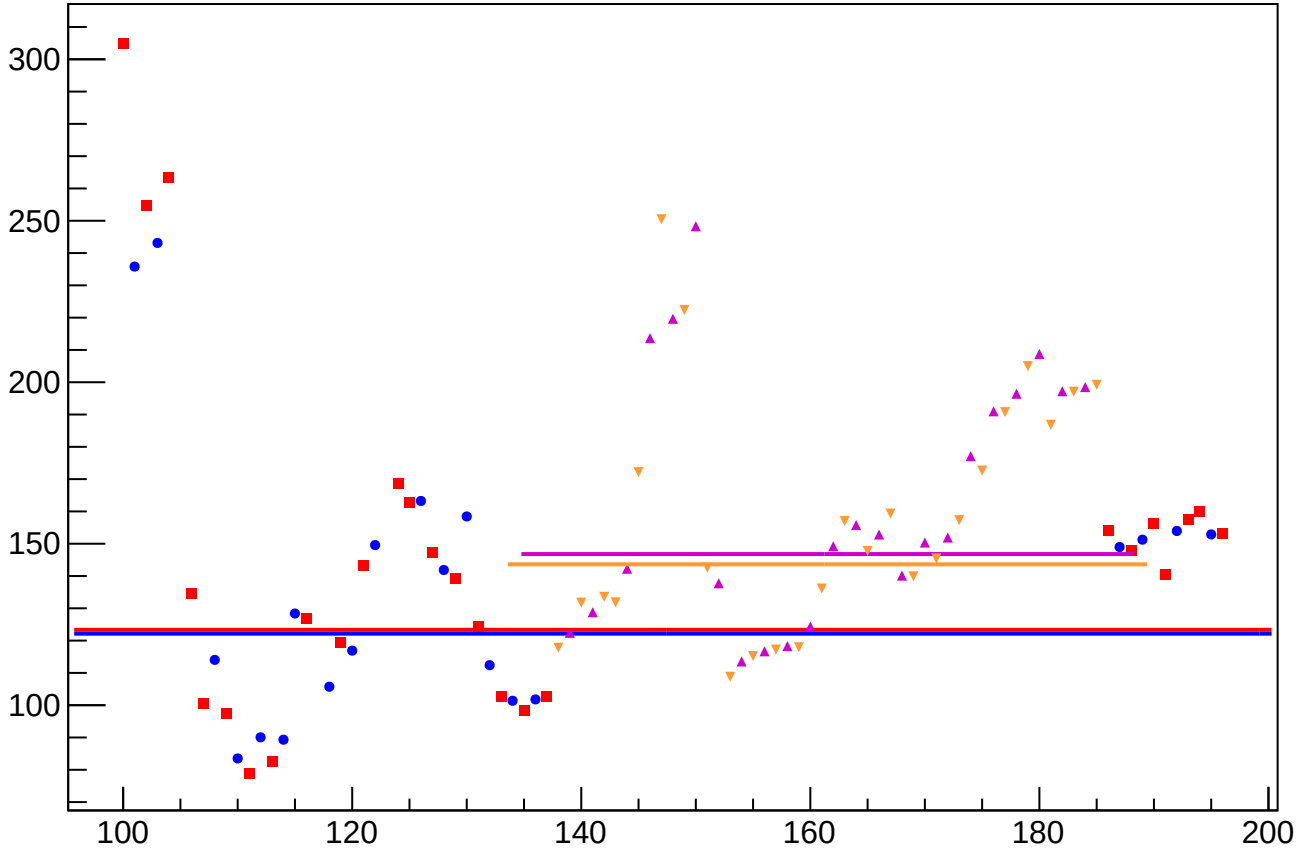
Right: 4451.742+/-27.925 $\chi^2$/NDF: 203511.9/45

In: -2383.522+/-26.954 $\chi^2$/NDF:148910.0/42

Out: 735.191+/-25.153 $\chi^2$/NDF:206899.8/50

All: -716.494+/-18.389 $\chi^2$/NDF: 362965.9/93

# asym_bpm0i01aWS_rms vs Slug, Sign Corrected




Right In: 122.151+/-0.029 $\chi^2$/NDF: 1363287.8/19

Left Out: 143.622+/-0.024 $\chi^2$/NDF:1662825.4/24

Right Out: 123.345+/-0.027 $\chi^2$/NDF: 1806274.7/25

Left In: 146.793+/-0.025 $\chi^2$/NDF:1694524.1/22

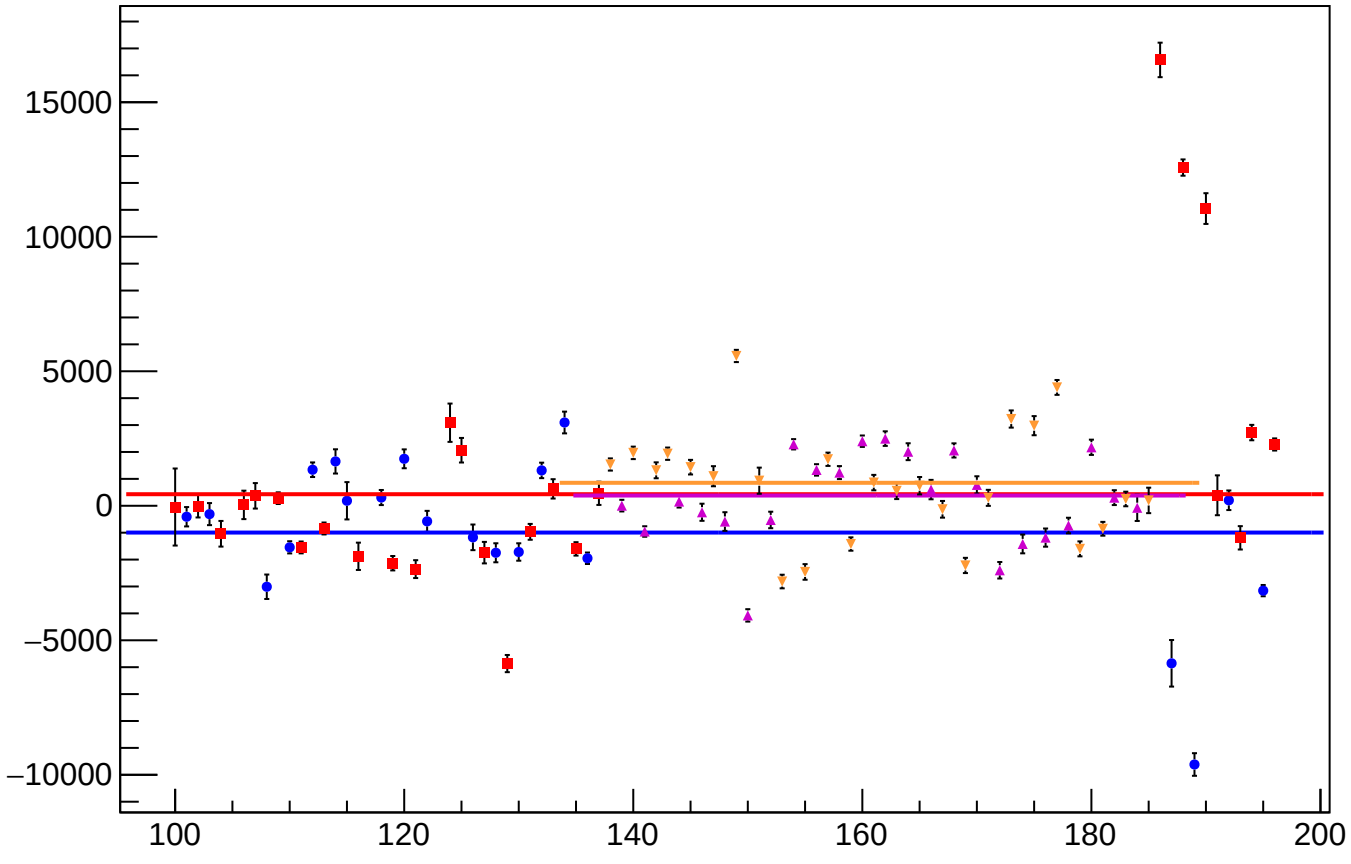
Left: 145.124+/-0.017 $\chi^2$/NDF: 3365746.4/47

Right: 122.802+/-0.020 $\chi^2$/NDF: 3170469.4/45

In: 136.351+/-0.019 $\chi^2$/NDF:3466007.4/42

Out: 134.654+/-0.018 $\chi^2$/NDF:3789706.4/50

All: 135.444+/-0.013 $\chi^2$/NDF: 7259950.3/93




Right In: -995.608+/-73.431 $\chi^2$/NDF: 992.1/19

Left Out: 853.916+/-56.237 $\chi^2$/NDF:1443.8/24

Right Out: 429.918+/-66.452 $\chi^2$/NDF: 3576.1/25

Left In: 380.865+/-55.135 $\chi^2$/NDF:982.4/22

Left: 612.713+/-39.370 $\chi^2$/NDF: 2462.3/47

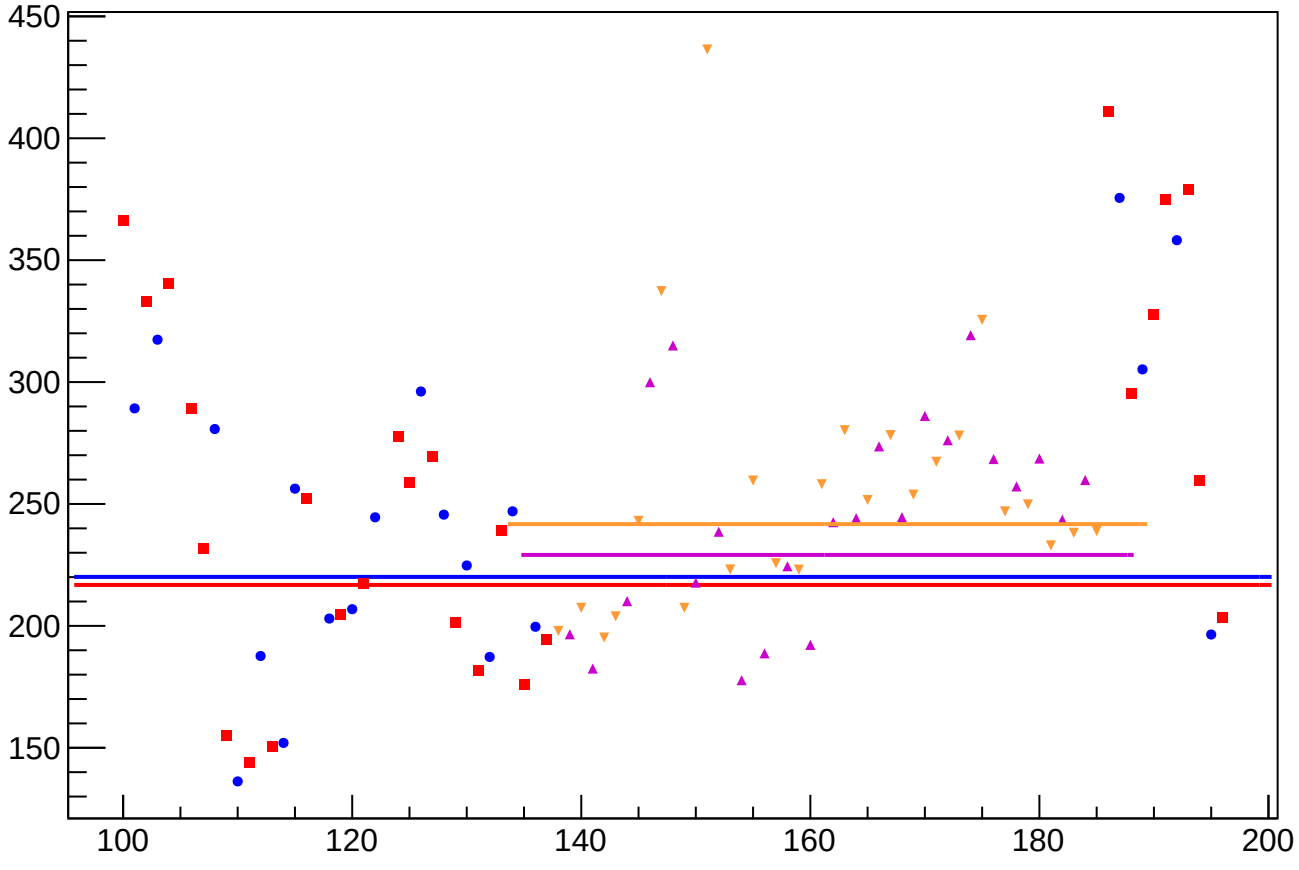
Right: -211.899+/-49.272 $\chi^2$/NDF: 4775.4/45

In: -115.376+/-44.090 $\chi^2$/NDF:2199.2/42

Out: 676.978+/-42.928 $\chi^2$/NDF:5043.6/50

All: 291.386+/-30.757 $\chi^2$/NDF: 7408.6/93

# asym_bpm0l01WS_rms vs Slug, Sign Corrected




Right In: 220.090+/-0.052 $\chi^2$/NDF: 1169270.3/19

Left Out: 241.746+/-0.040 $\chi^2$/NDF:986390.8/24

Right Out: 216.799+/-0.047 $\chi^2$/NDF: 1901080.5/25

Left In: 229.103+/-0.039 $\chi^2$/NDF:1068960.6/22

Left: 235.300+/-0.028 $\chi^2$/NDF: 2106890.7/47

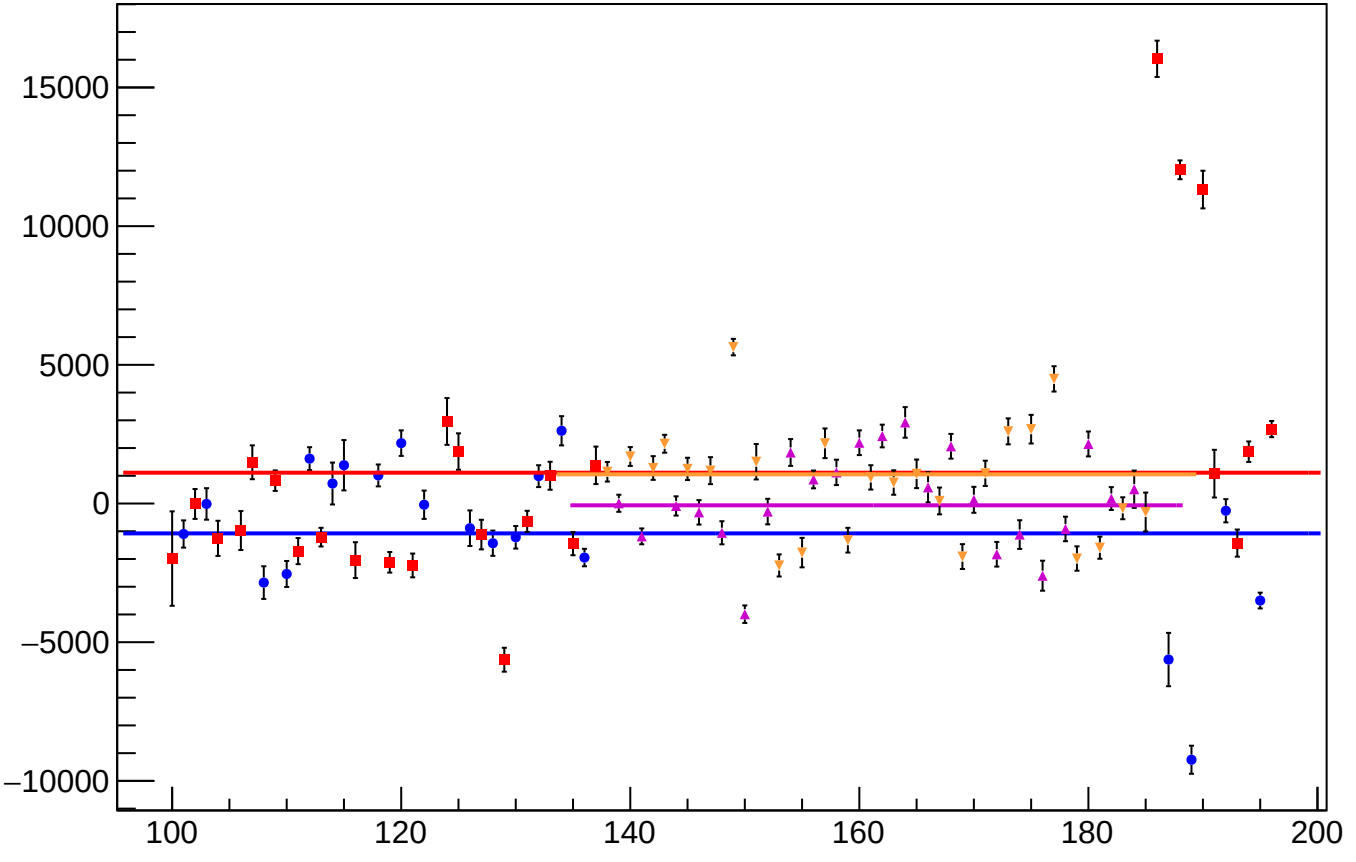
Right: 218.281+/-0.035 $\chi^2$/NDF: 3072559.8/45

In: 225.854+/-0.031 $\chi^2$/NDF:2257499.1/42

Out: 231.335+/-0.030 $\chi^2$/NDF:3051713.2/50

All: 228.668+/-0.022 $\chi^2$/NDF: 5325081.0/93

# asym_bpm0l02WS_mean vs Slug, Sign Corrected




Right In: -1076.922+/-102.620 $\chi^2$/NDF: 603.3/19

Left Out: 1053.354+/-85.895 $\chi^2$/NDF:614.6/24

Right Out: 1111.271+/-92.871 $\chi^2$/NDF: 2446.6/25

Left In: -64.646+/-86.660 $\chi^2$/NDF:394.4/22

Left: 499.305+/-61.006 $\chi^2$/NDF: 1093.0/47

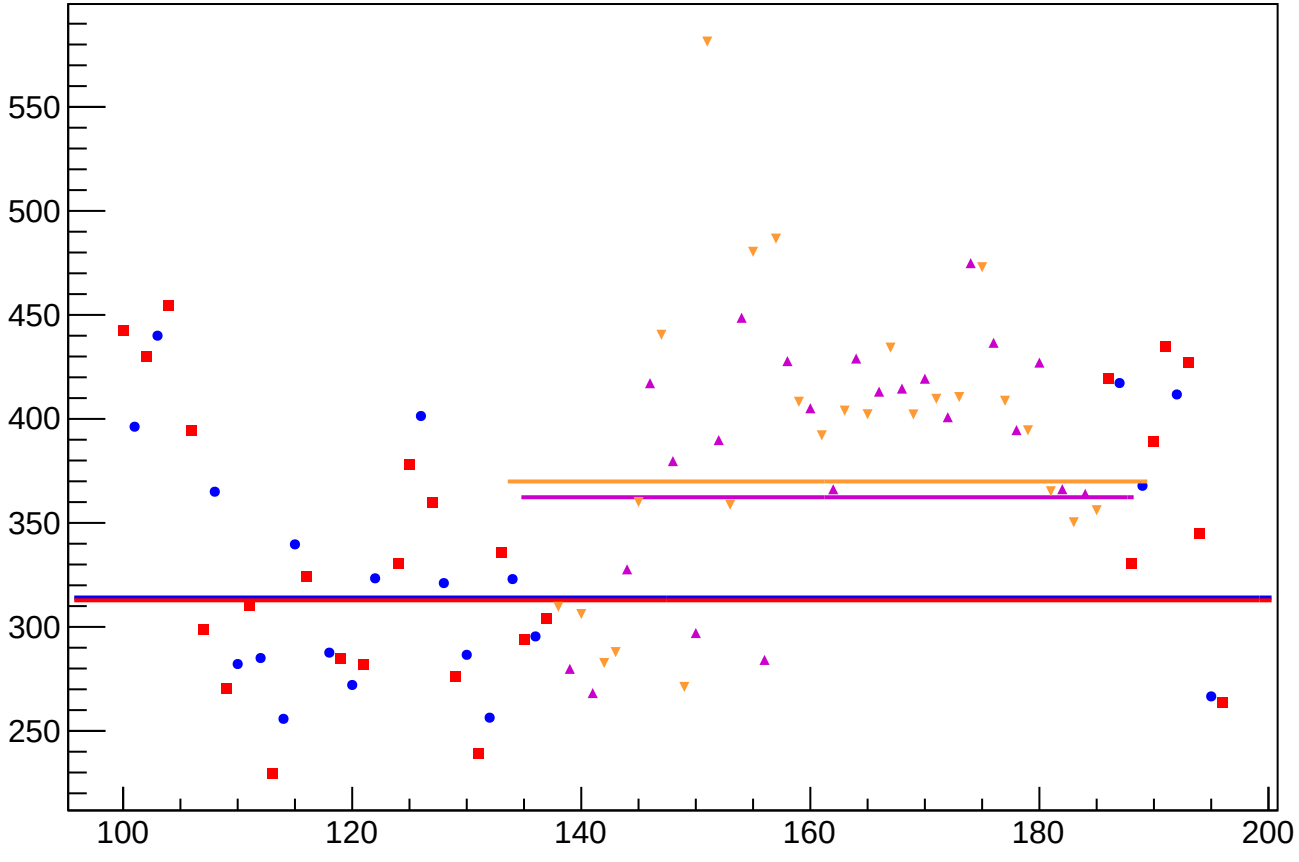
Right: 126.038+/-68.859 $\chi^2$/NDF: 3299.9/45

In: -486.028+/-66.210 $\chi^2$/NDF:1054.6/42

Out: 1080.056+/-63.059 $\chi^2$/NDF:3061.5/50

All: 335.162+/-45.663 $\chi^2$/NDF: 4409.4/93

# asym_bpm0l02WS_rms vs Slug, Sign Corrected




Right In: 314.132+/-0.073 $\chi^2$/NDF: 535628.7/19

Left Out: 369.923+/-0.061 $\chi^2$/NDF:1230300.9/24

Right Out: 312.784+/-0.066 $\chi^2$/NDF: 845322.1/25

Left In: 362.341+/-0.061 $\chi^2$/NDF:1053395.6/22

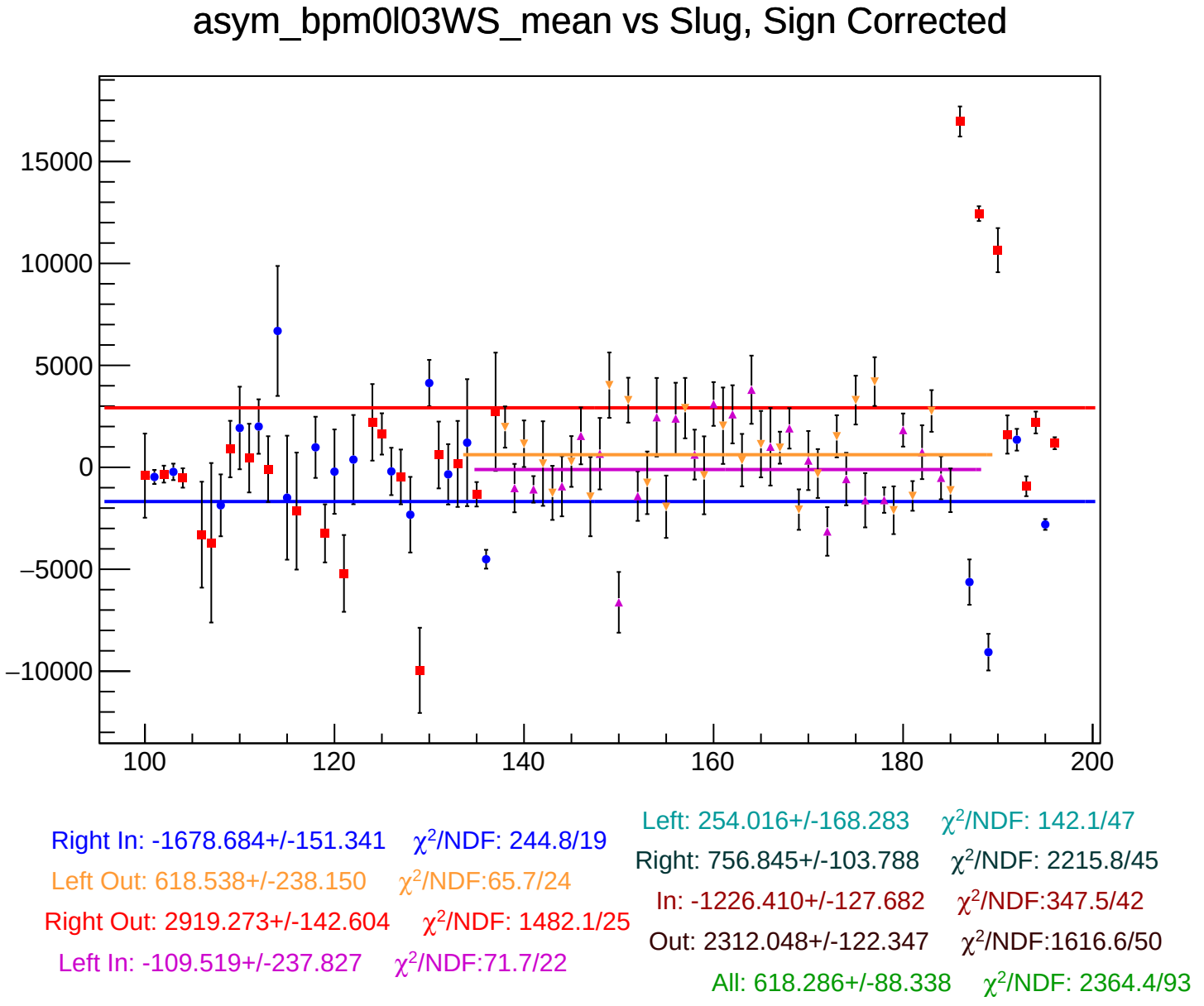
Left: 366.166+/-0.043 $\chi^2$/NDF: 2291420.1/47

Right: 313.391+/-0.049 $\chi^2$/NDF: 1381140.5/45

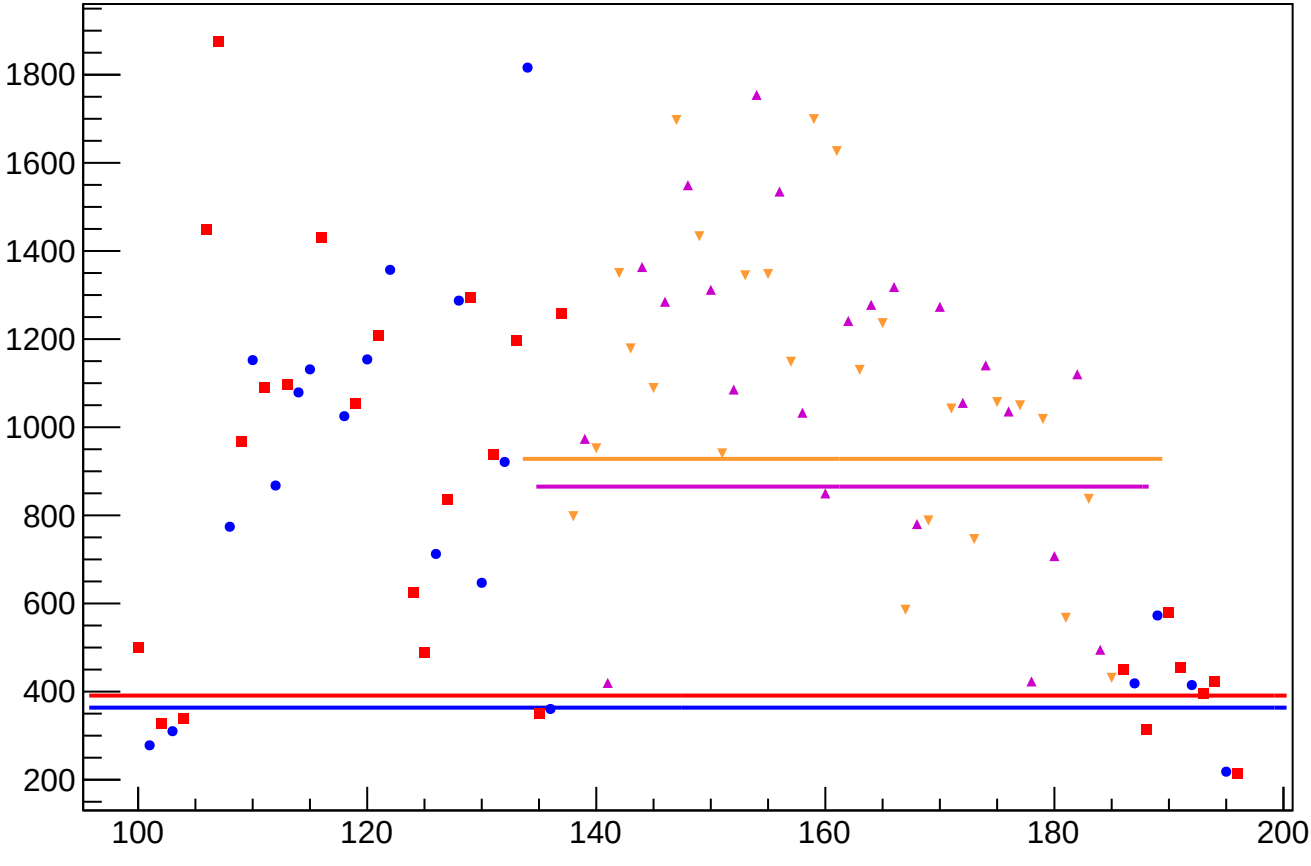
In: 342.273+/-0.047 $\chi^2$/NDF:1846674.8/42

Out: 343.580+/-0.045 $\chi^2$/NDF:2483661.6/50

All: 342.958+/-0.032 $\chi^2$/NDF: 4330745.0/93


asym_bpm0l03WS_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -1678.684+/-151.341 χ²/NDF: 244.8/19
Left Out: 618.538+/-238.150 χ²/NDF:65.7/24
Right Out: 2919.273+/-142.604 χ²/NDF: 1482.1/25
Left In: -109.519+/-237.827 χ²/NDF:71.7/22
Left: 254.016+/-168.283 χ²/NDF: 142.1/47
Right: 756.845+/-103.788 χ²/NDF: 2215.8/45
In: -1226.410+/-127.682 χ²/NDF:347.5/42
Out: 2312.048+/-122.347 χ²/NDF:1616.6/50
All: 618.286+/-88.338 χ²/NDF: 2364.4/93

# asym_bpm0l03WS_rms vs Slug, Sign Corrected




Right In: 363.614+/-0.107 $\chi^2$/NDF: 4466423.5/19

Left Out: 928.240+/-0.168 $\chi^2$/NDF:3294716.2/24

Right Out: 390.982+/-0.101 $\chi^2$/NDF: 5097673.8/25

Left In: 865.223+/-0.168 $\chi^2$/NDF:4792678.4/22

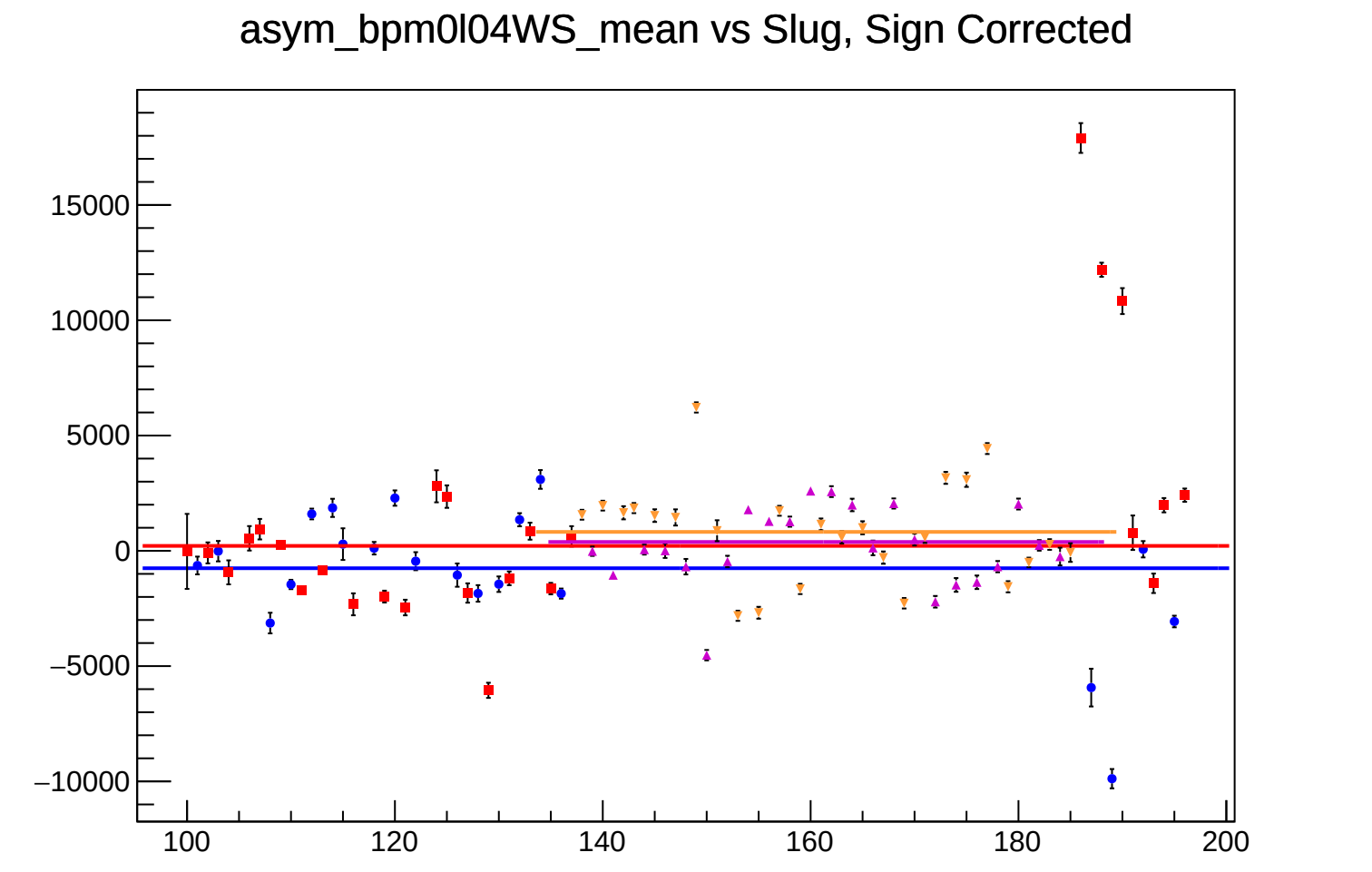
Left: 896.689+/-0.119 $\chi^2$/NDF: 8157507.8/47

Right: 378.111+/-0.073 $\chi^2$/NDF: 9598742.0/45

In: 508.191+/-0.090 $\chi^2$/NDF:15591661.0/42

Out: 532.779+/-0.087 $\chi^2$/NDF:15884687.4/50

All: 521.009+/-0.062 $\chi^2$/NDF: 31515014.1/93




Right In: -754.923+/-72.989 $\chi^2$/NDF: 1074.0/19

Left Out: 820.821+/-49.996 $\chi^2$/NDF:1990.8/24

Right Out: 213.690+/-65.448 $\chi^2$/NDF: 3541.6/25

Left In: 385.002+/-48.455 $\chi^2$/NDF:1253.3/22

Left: 596.090+/-34.795 $\chi^2$/NDF: 3283.3/47

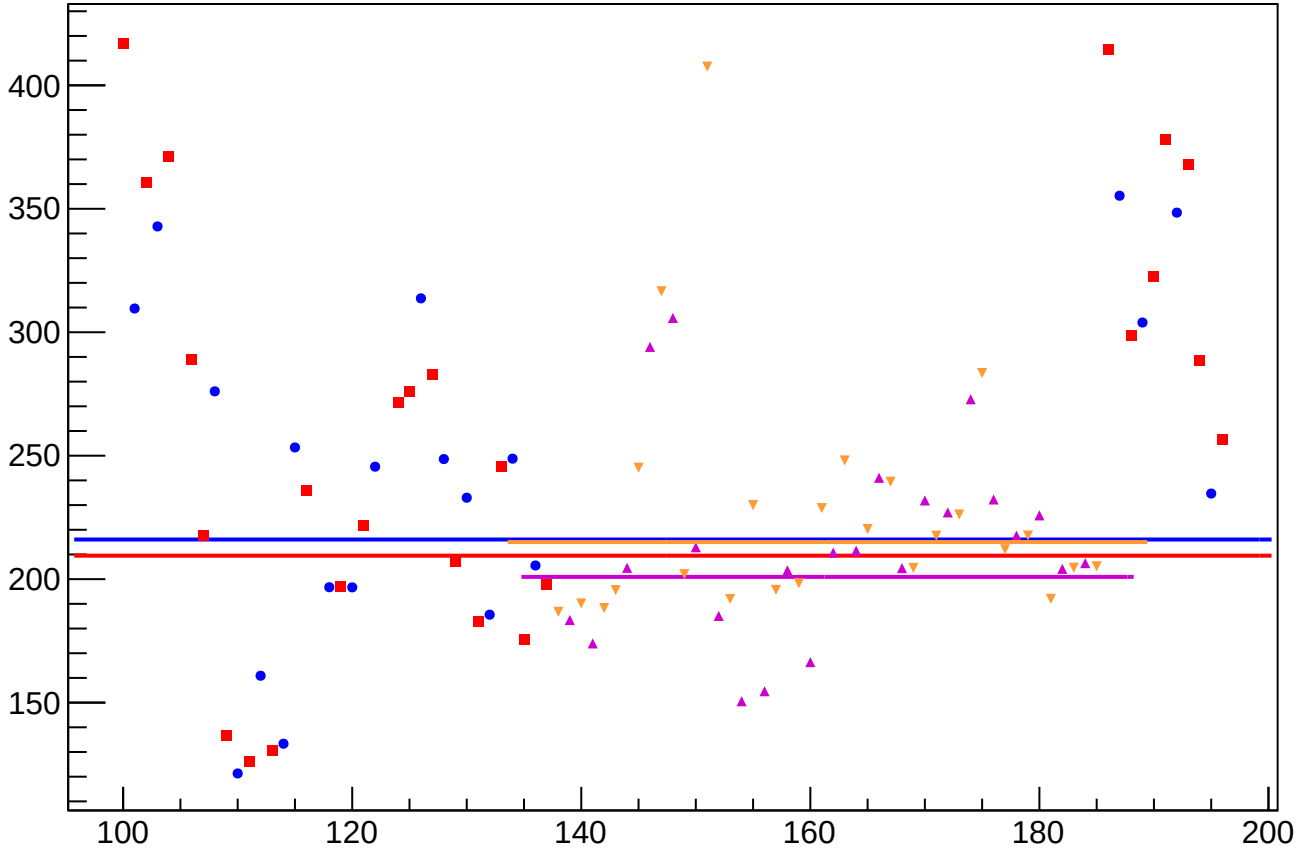
Right: -218.007+/-48.727 $\chi^2$/NDF: 4713.2/45

In: 36.301+/-40.369 $\chi^2$/NDF:2496.6/42

Out: 597.087+/-39.730 $\chi^2$/NDF:5586.7/50

All: 321.166+/-28.317 $\chi^2$/NDF: 8181.3/93

# asym_bpm0l04WS_rms vs Slug, Sign Corrected




Right In: 216.059+/-0.052 $\chi^2$/NDF: 1561814.7/19

Left Out: 215.027+/-0.035 $\chi^2$/NDF:897791.6/24

Right Out: 209.511+/-0.046 $\chi^2$/NDF: 2705011.6/25

Left In: 200.917+/-0.034 $\chi^2$/NDF:1105842.5/22

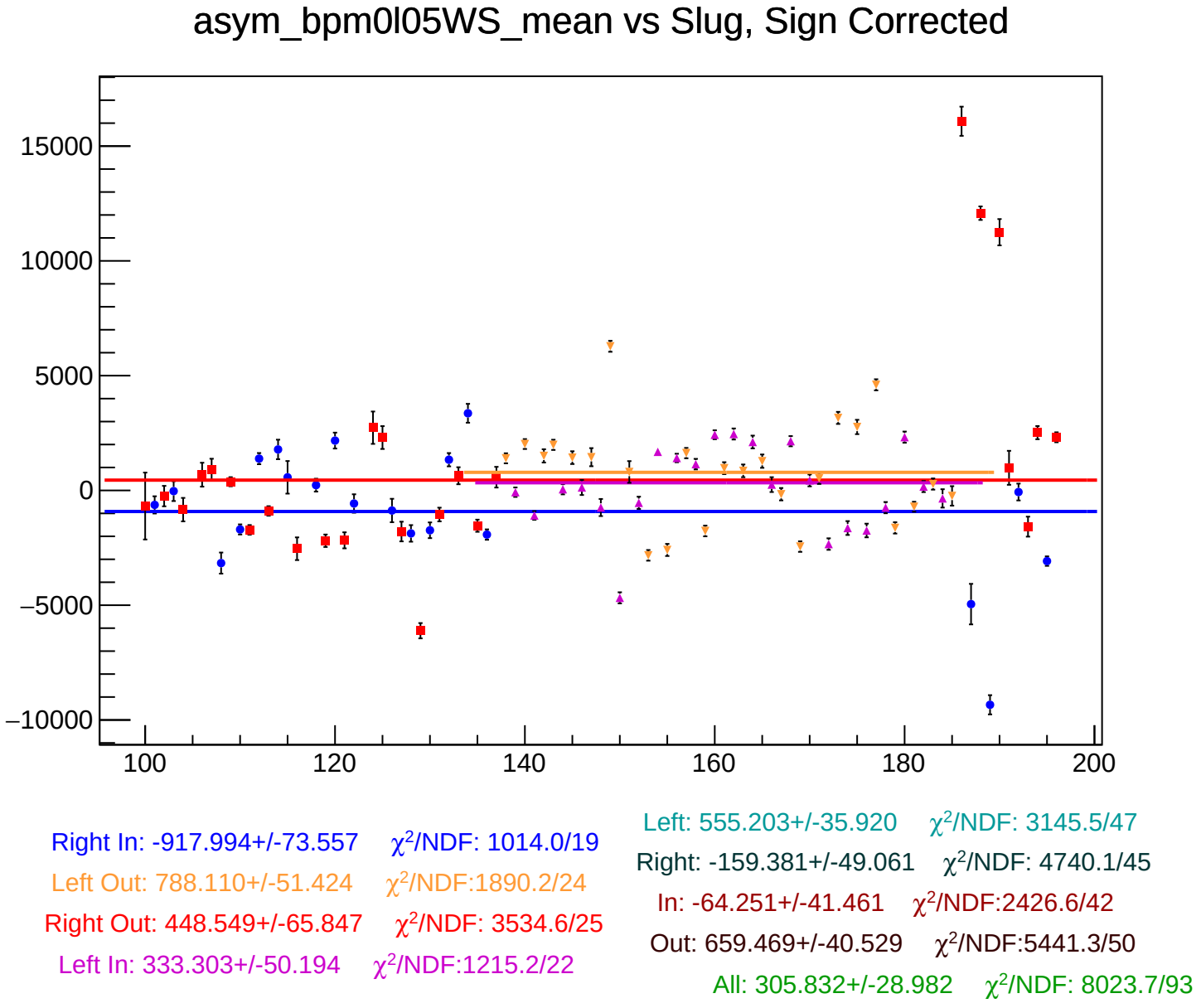
Left: 207.751+/-0.025 $\chi^2$/NDF: 2085775.1/47

Right: 212.429+/-0.034 $\chi^2$/NDF: 4275748.8/45

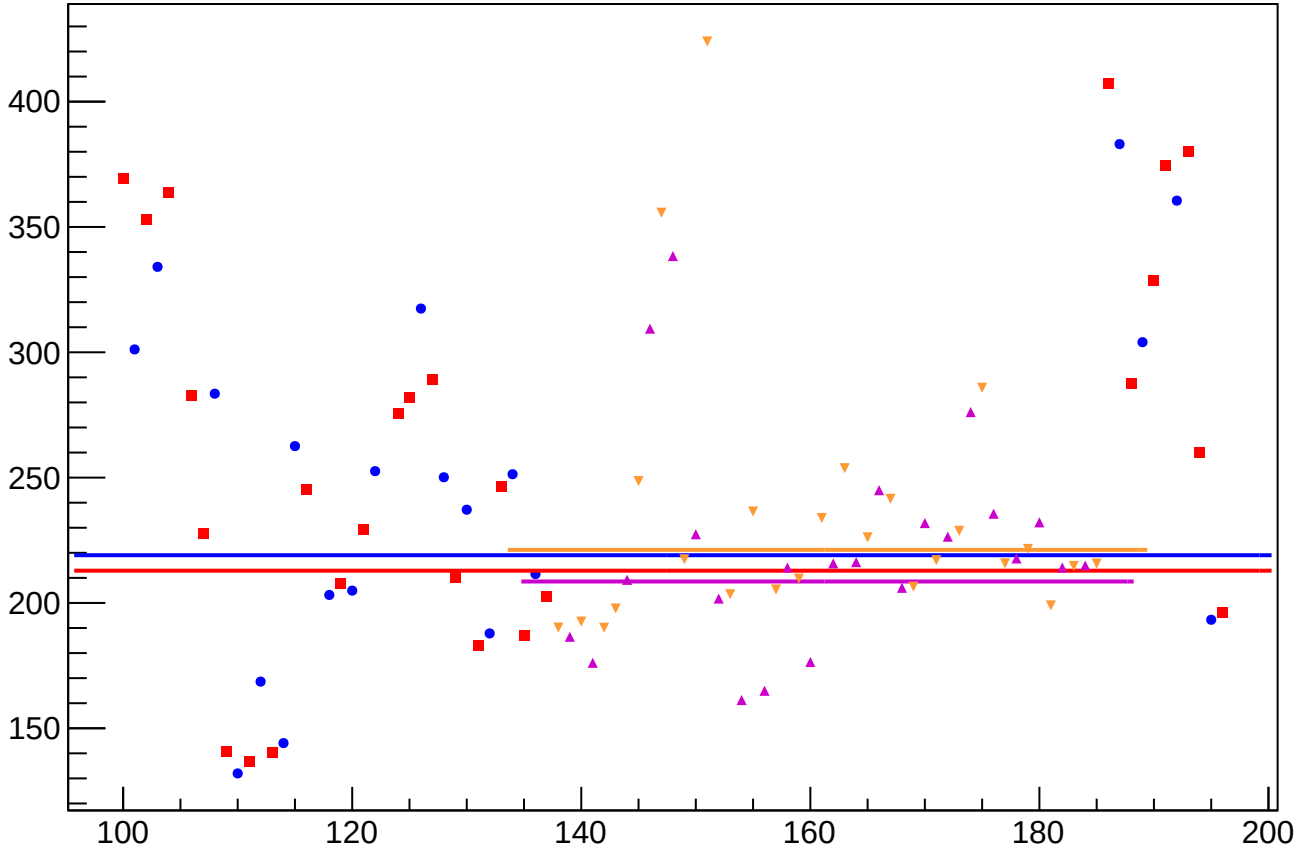
In: 205.549+/-0.029 $\chi^2$/NDF:2727401.8/42

Out: 212.994+/-0.028 $\chi^2$/NDF:3611774.2/50

All: 209.331+/-0.020 $\chi^2$/NDF: 6373733.5/93


asym_bpm0l05WS_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
100
120
140
160
180
200
Right In: -917.994+/-73.557 χ²/NDF: 1014.0/19
Left Out: 788.110+/-51.424 χ²/NDF:1890.2/24
Right Out: 448.549+/-65.847 χ²/NDF: 3534.6/25
Left In: 333.303+/-50.194 χ²/NDF:1215.2/22
Left: 555.203+/-35.920 χ²/NDF: 3145.5/47
Right: -159.381+/-49.061 χ²/NDF: 4740.1/45
In: -64.251+/-41.461 χ²/NDF:2426.6/42
Out: 659.469+/-40.529 χ²/NDF:5441.3/50
All: 305.832+/-28.982 χ²/NDF: 8023.7/93

# asym_bpm0l05WS_rms vs Slug, Sign Corrected




Right In: 219.044+/-0.052 $\chi^2$/NDF: 1382667.3/19

Left Out: 221.185+/-0.036 $\chi^2$/NDF:939520.0/24

Right Out: 212.873+/-0.047 $\chi^2$/NDF: 2247011.9/25

Left In: 208.556+/-0.035 $\chi^2$/NDF:1035638.0/22

Left: 214.718+/-0.025 $\chi^2$/NDF: 2036930.5/47

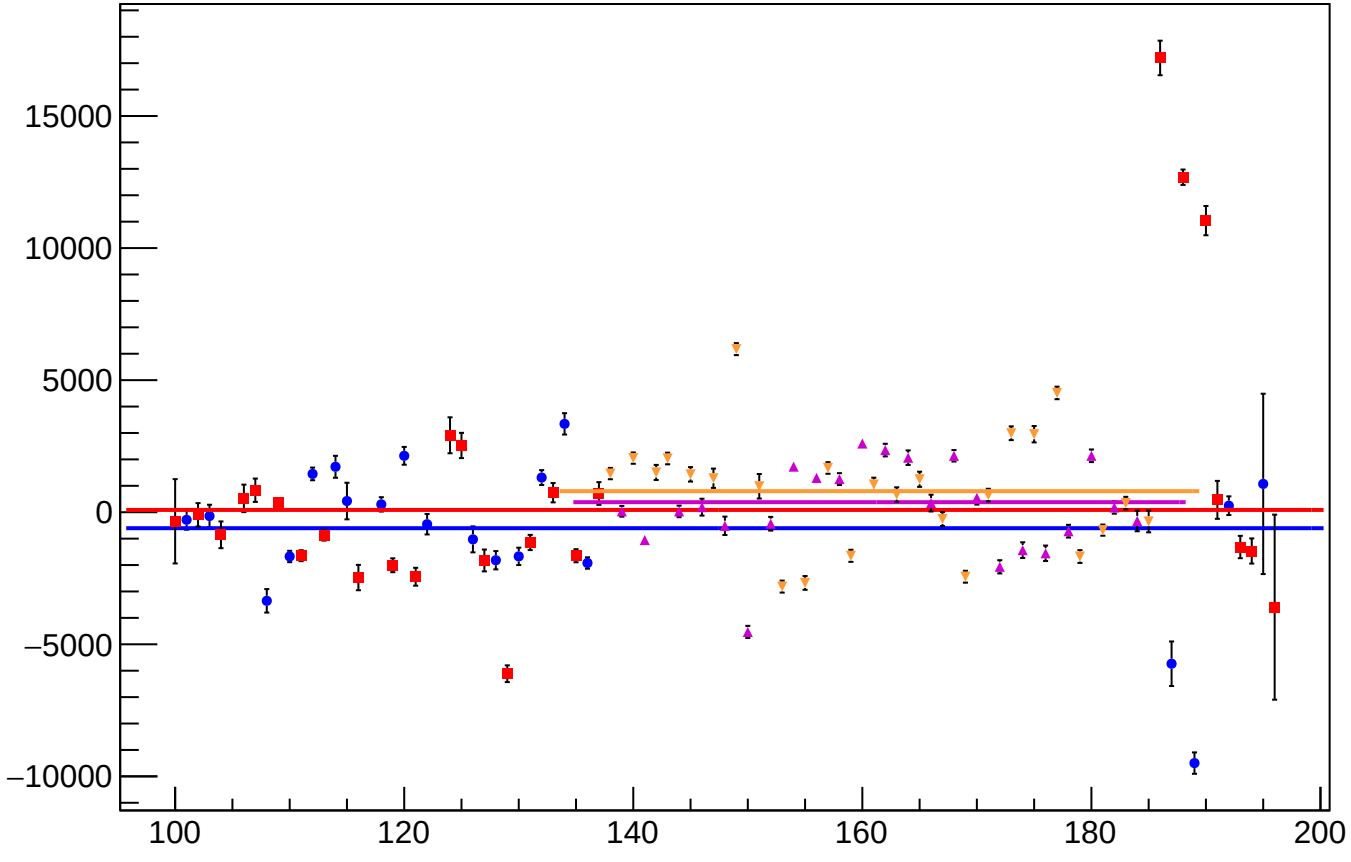
Right: 215.618+/-0.035 $\chi^2$/NDF: 3637492.7/45

In: 211.888+/-0.029 $\chi^2$/NDF:2446046.2/42

Out: 218.036+/-0.029 $\chi^2$/NDF:3206327.3/50

All: 215.032+/-0.020 $\chi^2$/NDF: 5674861.9/93

# asym_bpm0l06WS_mean vs Slug, Sign Corrected




Right In: -604.763+/-76.475 $\chi^2$/NDF: 976.8/19

Left Out: 797.475+/-50.495 $\chi^2$/NDF:1960.8/24

Right Out: 86.396+/-68.172 $\chi^2$/NDF: 3731.2/25

Left In: 379.578+/-49.183 $\chi^2$/NDF:1201.2/22

Left: 583.028+/-35.232 $\chi^2$/NDF: 3197.2/47

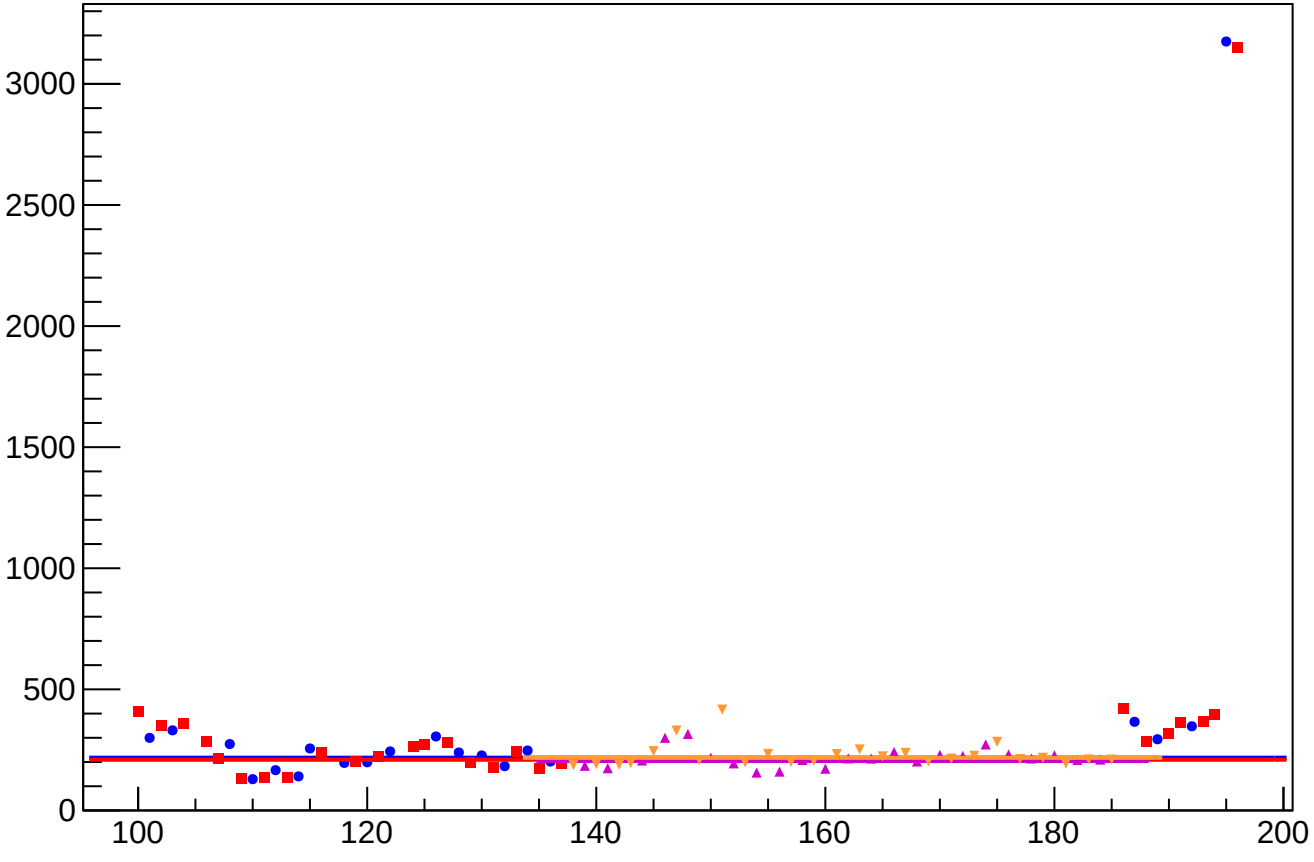
Right: -219.639+/-50.888 $\chi^2$/NDF: 4753.5/45

In: 91.564+/-41.367 $\chi^2$/NDF:2295.2/42

Out: 545.558+/-40.576 $\chi^2$/NDF:5762.3/50

All: 322.940+/-28.967 $\chi^2$/NDF: 8118.9/93

# asym_bpm0l06WS_rms vs Slug, Sign Corrected




Right In: 217.977+/-0.054 $\chi^2$/NDF: 2828720.8/19

Left Out: 217.224+/-0.036 $\chi^2$/NDF:910445.0/24

Right Out: 209.319+/-0.048 $\chi^2$/NDF: 4020955.4/25

Left In: 204.308+/-0.035 $\chi^2$/NDF:1015049.0/22

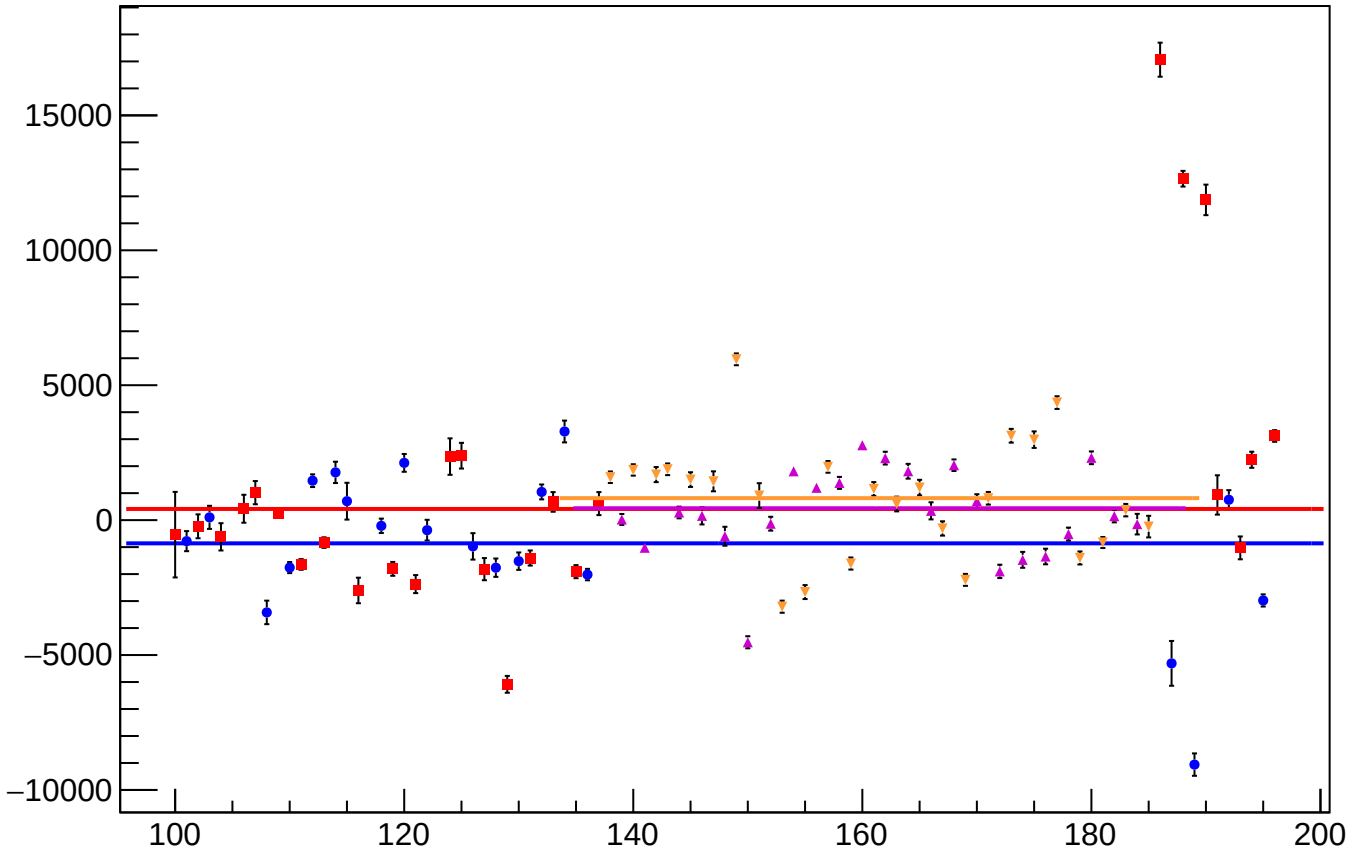
Left: 210.596+/-0.025 $\chi^2$/NDF: 1992646.9/47

Right: 213.153+/-0.036 $\chi^2$/NDF: 6863962.1/45

In: 208.308+/-0.029 $\chi^2$/NDF:3888972.4/42

Out: 214.424+/-0.029 $\chi^2$/NDF:4948767.5/50

All: 211.425+/-0.020 $\chi^2$/NDF: 8860021.1/93




Right In: -860.596+/-71.273 $\chi^2$/NDF: 1016.4/19

Left Out: 814.275+/-49.760 $\chi^2$/NDF:2000.4/24

Right Out: 414.022+/-62.884 $\chi^2$/NDF: 4047.1/25

Left In: 439.674+/-48.535 $\chi^2$/NDF:1235.0/22

Left: 622.309+/-34.745 $\chi^2$/NDF: 3264.4/47

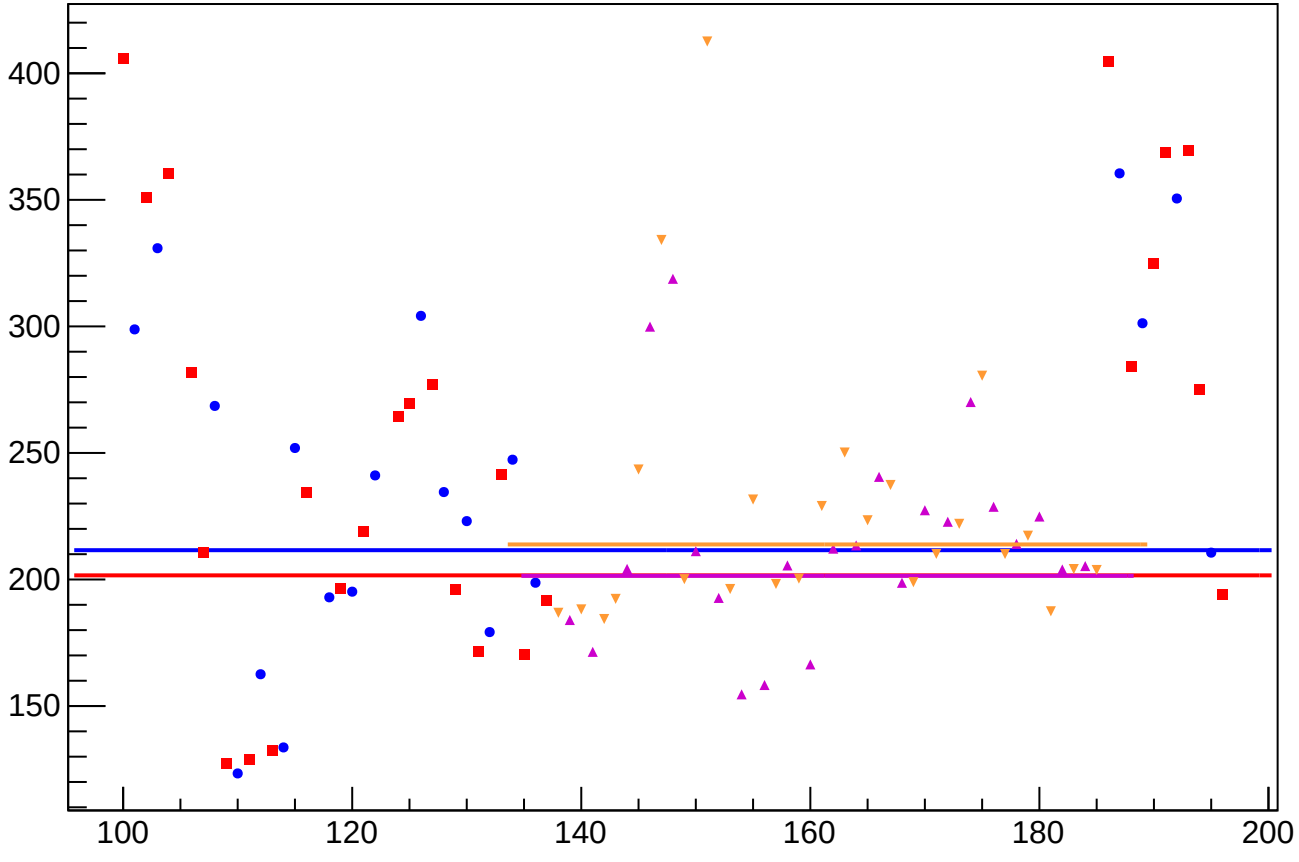
Right: -143.901+/-47.154 $\chi^2$/NDF: 5243.3/45

In: 27.726+/-40.117 $\chi^2$/NDF:2478.8/42

Out: 660.159+/-39.021 $\chi^2$/NDF:6072.4/50

All: 352.698+/-27.971 $\chi^2$/NDF: 8678.8/93

# asym_bpm0l07WS_rms vs Slug, Sign Corrected




Right In: 211.580+/-0.050 $\chi^2$/NDF: 1461210.0/19

Left Out: 213.848+/-0.035 $\chi^2$/NDF:963582.3/24

Right Out: 201.634+/-0.044 $\chi^2$/NDF: 2597725.0/25

Left In: 201.446+/-0.034 $\chi^2$/NDF:1061972.3/22

Left: 207.492+/-0.025 $\chi^2$/NDF: 2089227.0/47

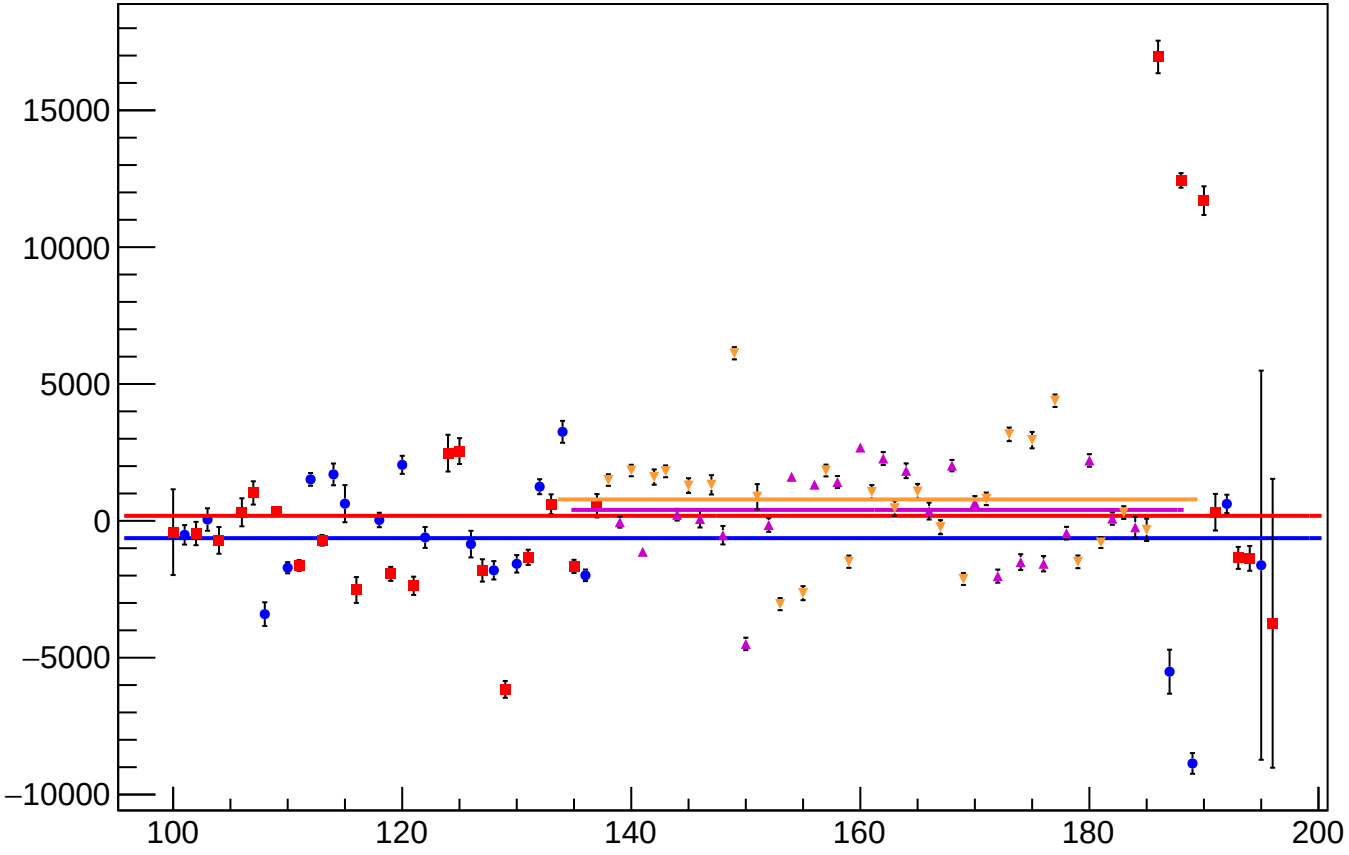
Right: 205.987+/-0.033 $\chi^2$/NDF: 4080834.6/45

In: 204.656+/-0.028 $\chi^2$/NDF:2550807.3/42

Out: 209.145+/-0.028 $\chi^2$/NDF:3607708.2/50

All: 206.963+/-0.020 $\chi^2$/NDF: 6171382.1/93

# asym_bpm0l08WS_mean vs Slug, Sign Corrected




Right In: -632.308+/-74.062 $\chi^2$/NDF: 992.4/19

Left Out: 782.388+/-49.199 $\chi^2$/NDF:2001.3/24

Right Out: 183.497+/-65.476 $\chi^2$/NDF: 4272.5/25

Left In: 399.798+/-47.819 $\chi^2$/NDF:1232.0/22

Left: 585.651+/-34.291 $\chi^2$/NDF: 3264.4/47

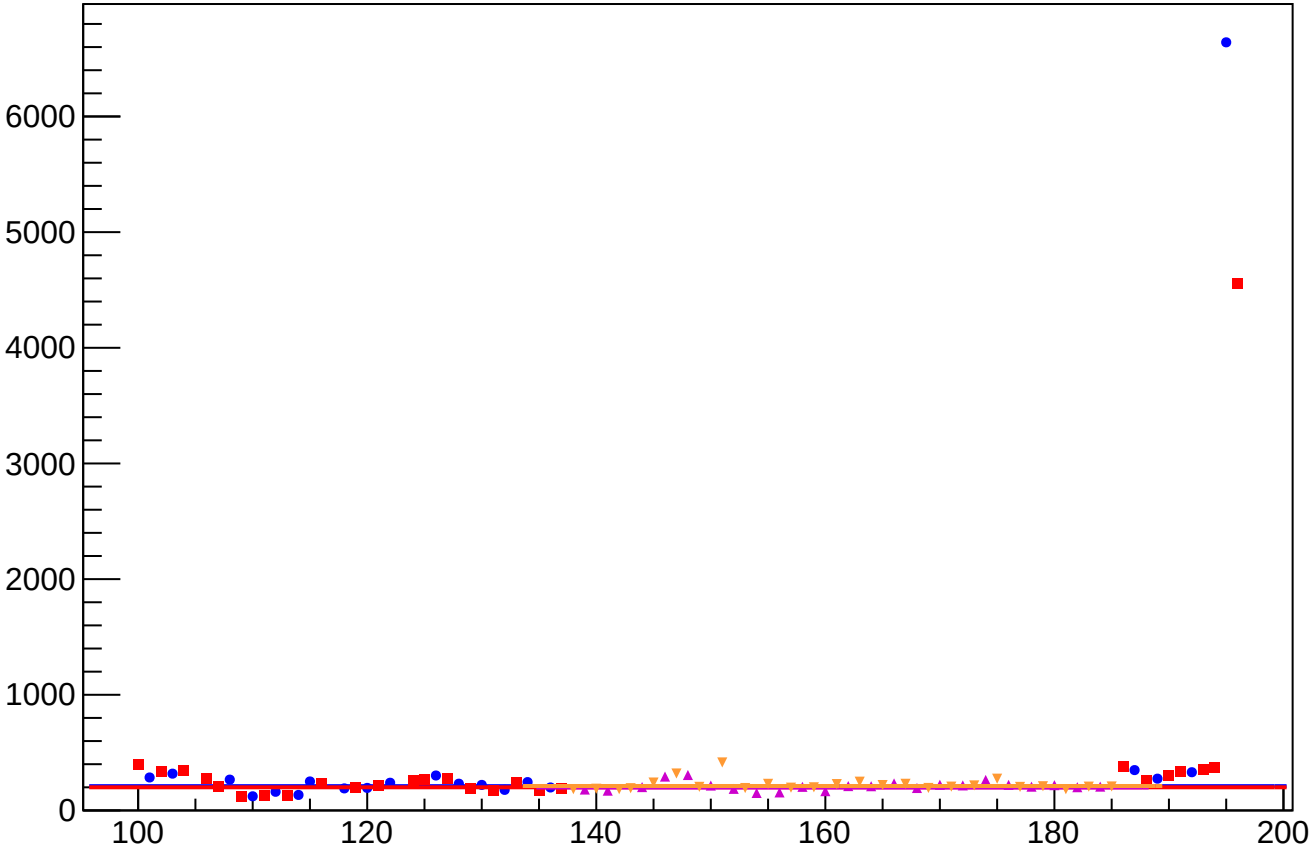
Right: -174.399+/-49.054 $\chi^2$/NDF: 5333.0/45

In: 96.128+/-40.173 $\chi^2$/NDF:2361.5/42

Out: 566.270+/-39.333 $\chi^2$/NDF:6327.2/50

All: 336.166+/-28.105 $\chi^2$/NDF: 8758.7/93

# asym_bpm0l08WS_rms vs Slug, Sign Corrected




Right In: 210.175+/-0.052 $\chi^2$/NDF: 2966252.4/19

Left Out: 211.496+/-0.035 $\chi^2$/NDF:934978.4/24

Right Out: 200.193+/-0.046 $\chi^2$/NDF: 3947215.2/25

Left In: 198.524+/-0.034 $\chi^2$/NDF:1006458.6/22

Left: 204.826+/-0.024 $\chi^2$/NDF: 2012924.3/47

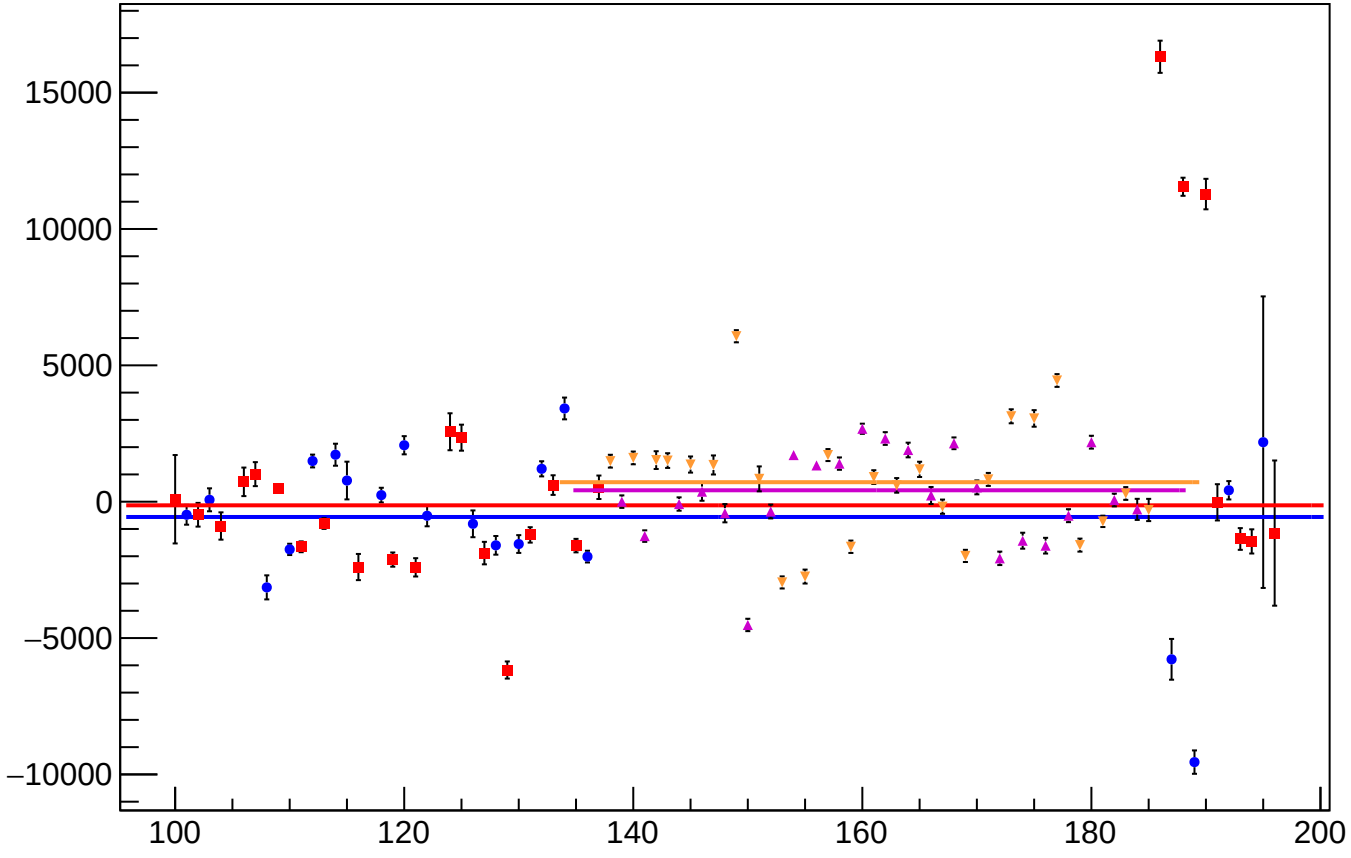
Right: 204.572+/-0.035 $\chi^2$/NDF: 6933859.3/45

In: 201.952+/-0.028 $\chi^2$/NDF:4007642.3/42

Out: 207.417+/-0.028 $\chi^2$/NDF:4920281.9/50

All: 204.742+/-0.020 $\chi^2$/NDF: 8946819.4/93

# asym_bpm0l09WS_mean vs Slug, Sign Corrected




Right In: -560.351+/-75.287 $\chi^2$/NDF: 953.3/19

Left Out: 715.643+/-51.110 $\chi^2$/NDF:1918.0/24

Right Out: -132.913+/-67.293 $\chi^2$/NDF: 3158.6/25

Left In: 418.574+/-49.523 $\chi^2$/NDF:1241.0/22

Left: 562.426+/-35.566 $\chi^2$/NDF: 3176.4/47

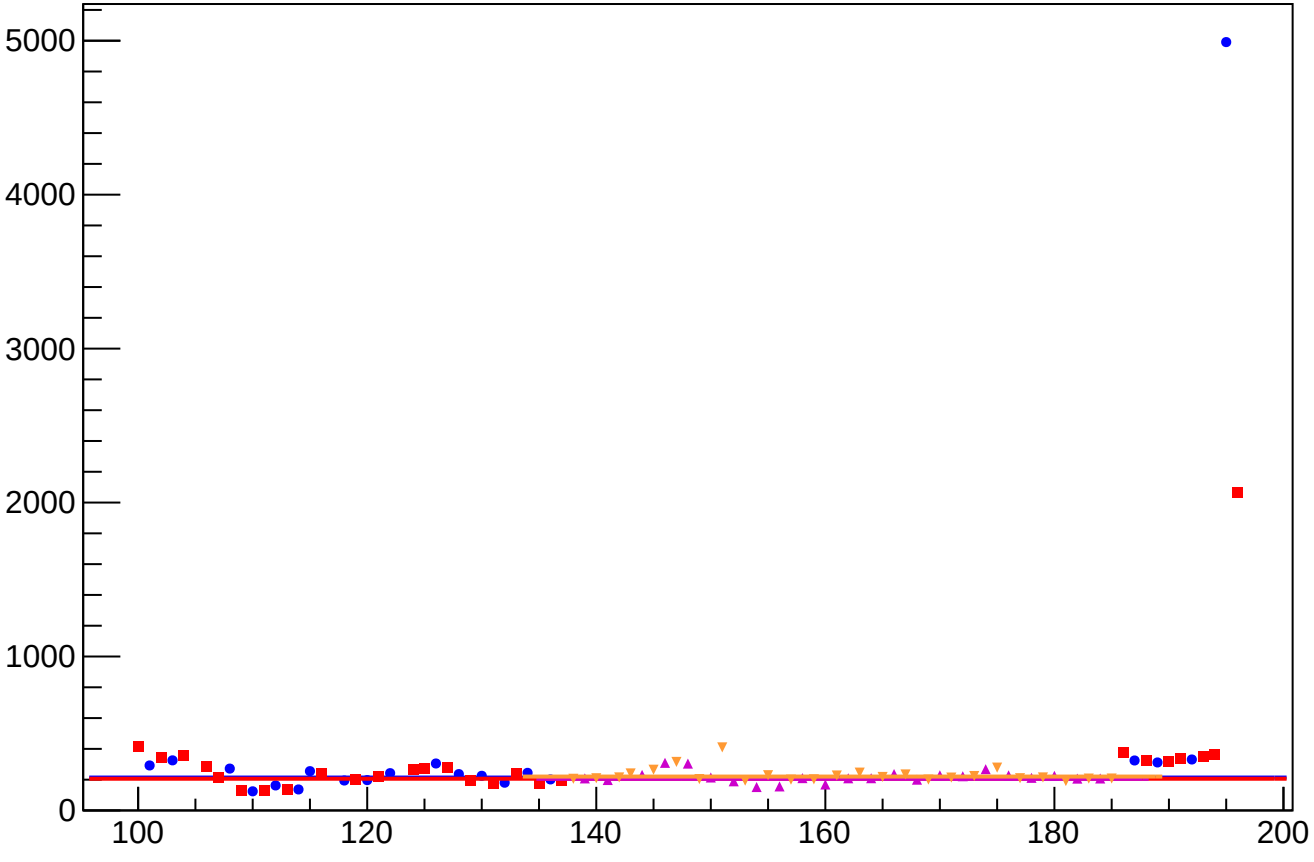
Right: -322.744+/-50.172 $\chi^2$/NDF: 4129.8/45

In: 122.924+/-41.375 $\chi^2$/NDF:2312.3/42

Out: 405.220+/-40.701 $\chi^2$/NDF:5177.4/50

All: 266.387+/-29.015 $\chi^2$/NDF: 7513.4/93

# asym_bpm0l09WS_rms vs Slug, Sign Corrected




Right In: 213.776+/-0.053 $\chi^2$/NDF: 2959671.4/19

Left Out: 220.145+/-0.036 $\chi^2$/NDF:799699.4/24

Right Out: 206.056+/-0.048 $\chi^2$/NDF: 3653283.9/25

Left In: 205.481+/-0.035 $\chi^2$/NDF:1013965.4/22

Left: 212.582+/-0.025 $\chi^2$/NDF: 1898571.5/47

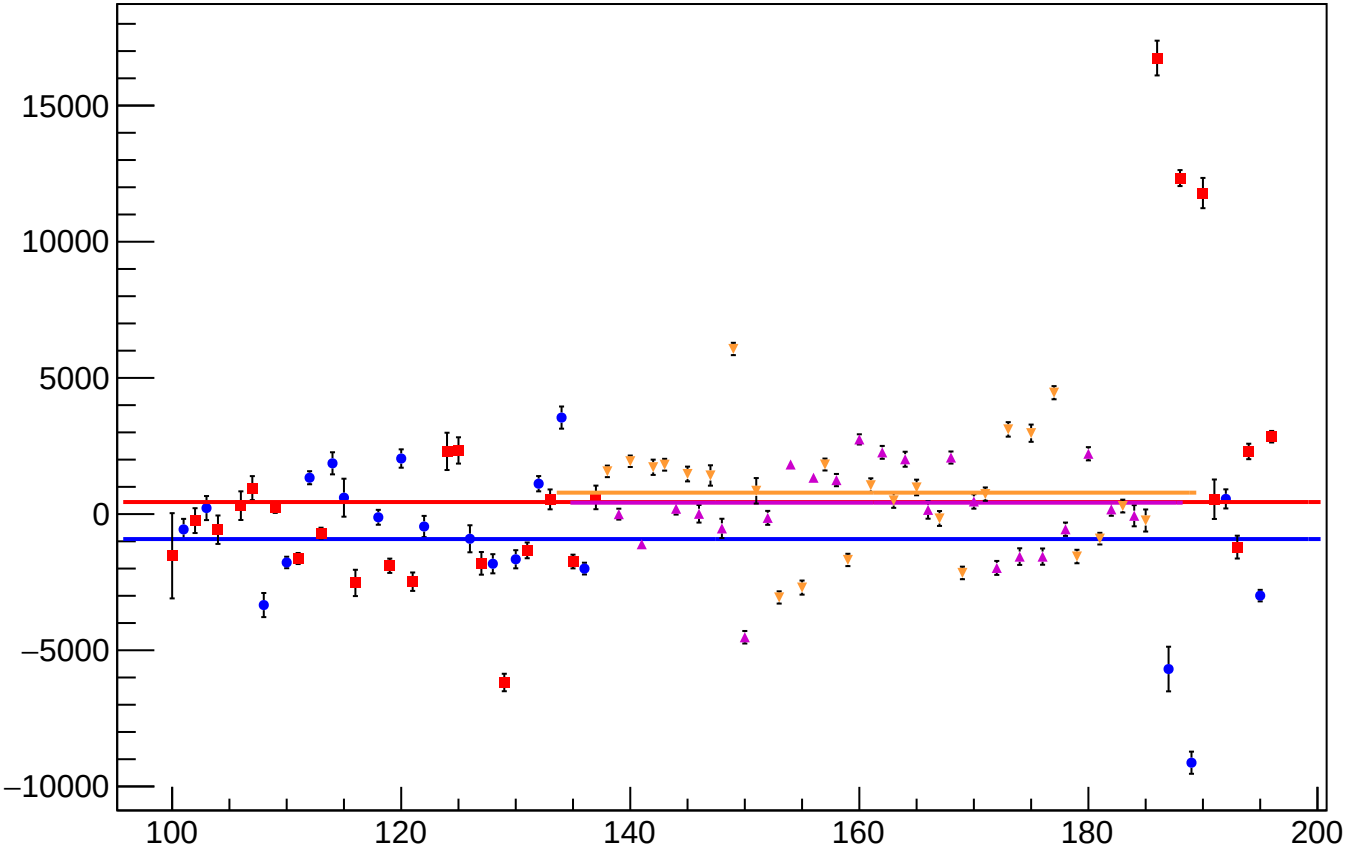
Right: 209.484+/-0.035 $\chi^2$/NDF: 6624645.4/45

In: 207.986+/-0.029 $\chi^2$/NDF:3990579.5/42

Out: 214.991+/-0.029 $\chi^2$/NDF:4508583.3/50

All: 211.546+/-0.021 $\chi^2$/NDF: 8528291.7/93

# asym_bpm0l10WS_mean vs Slug, Sign Corrected




Right In: -916.886+/-72.032 $\chi^2$/NDF: 1044.8/19

Left Out: 786.922+/-50.524 $\chi^2$/NDF:1937.6/24

Right Out: 442.564+/-63.866 $\chi^2$/NDF: 3830.4/25

Left In: 418.824+/-49.152 $\chi^2$/NDF:1211.0/22

Left: 597.806+/-35.231 $\chi^2$/NDF: 3175.8/47

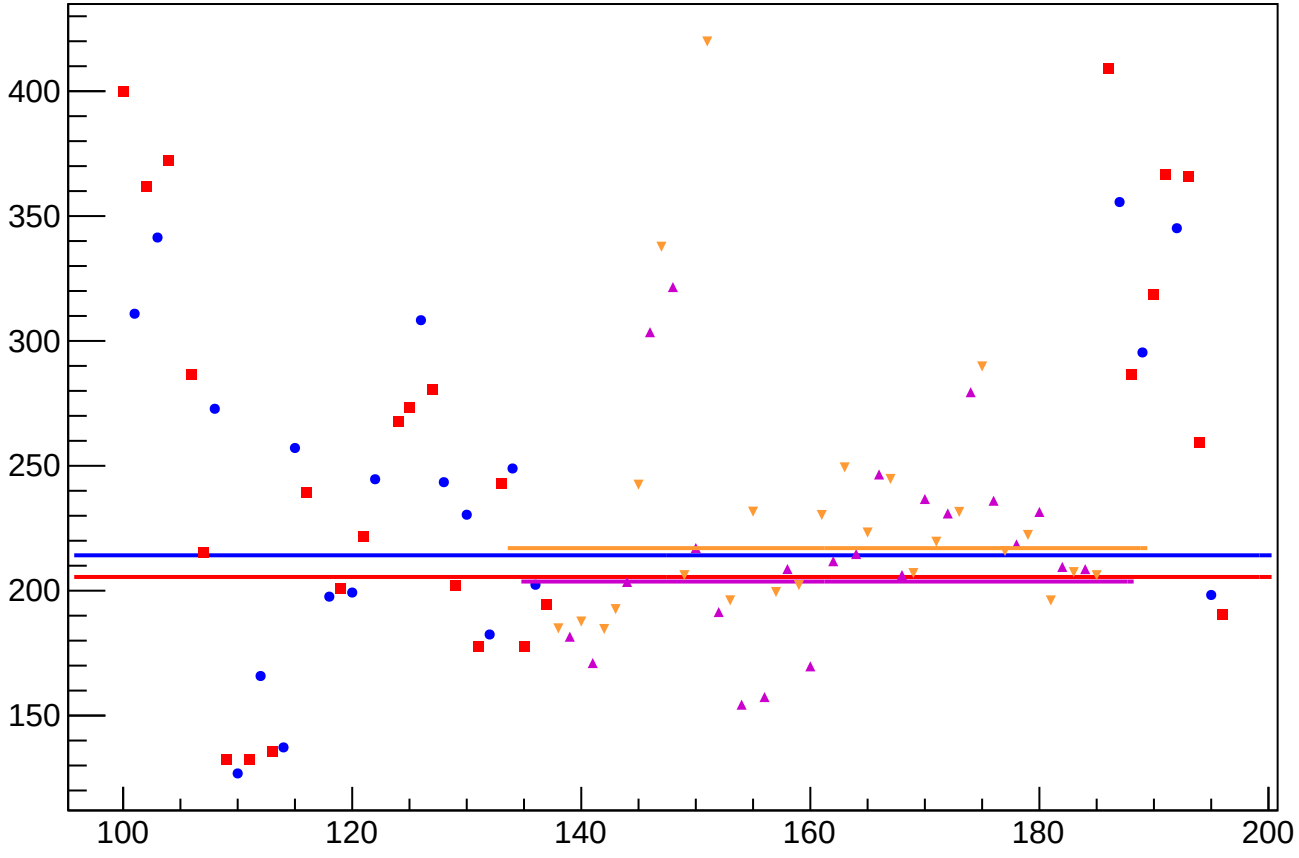
Right: -155.767+/-47.787 $\chi^2$/NDF: 5074.6/45

In: -5.525+/-40.600 $\chi^2$/NDF:2490.4/42

Out: 654.368+/-39.624 $\chi^2$/NDF:5785.8/50

All: 332.449+/-28.357 $\chi^2$/NDF: 8411.5/93

# asym_bpm0l10WS_rms vs Slug, Sign Corrected




Right In: 214.167+/-0.051 $\chi^2$/NDF: 1417814.3/19

Left Out: 217.040+/-0.036 $\chi^2$/NDF:983170.6/24

Right Out: 205.492+/-0.045 $\chi^2$/NDF: 2443179.1/25

Left In: 203.660+/-0.035 $\chi^2$/NDF:1165334.8/22

Left: 210.166+/-0.025 $\chi^2$/NDF: 2220567.5/47

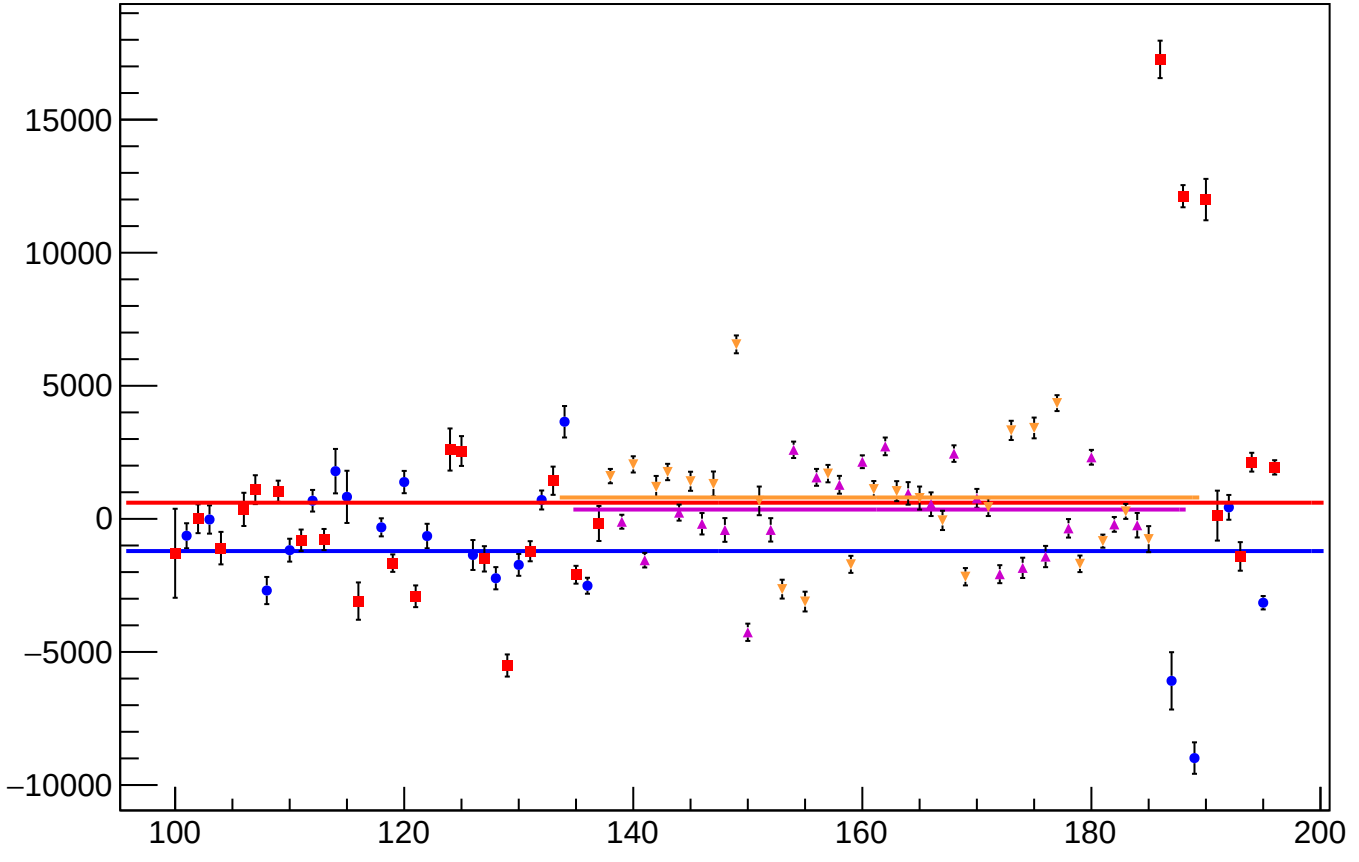
Right: 209.310+/-0.034 $\chi^2$/NDF: 3877233.3/45

In: 206.998+/-0.029 $\chi^2$/NDF:2612183.1/42

Out: 212.595+/-0.028 $\chi^2$/NDF:3466567.4/50

All: 209.865+/-0.020 $\chi^2$/NDF: 6098216.3/93

# asym_bpm0r03WS_mean vs Slug, Sign Corrected




Right In: -1209.641+/-97.273 $\chi^2$/NDF: 488.9/19

Left Out: 803.752+/-67.693 $\chi^2$/NDF:1057.7/24

Right Out: 607.527+/-90.856 $\chi^2$/NDF: 2130.5/25

Left In: 350.095+/-68.985 $\chi^2$/NDF:656.1/22

Left: 581.210+/-48.316 $\chi^2$/NDF: 1735.8/47

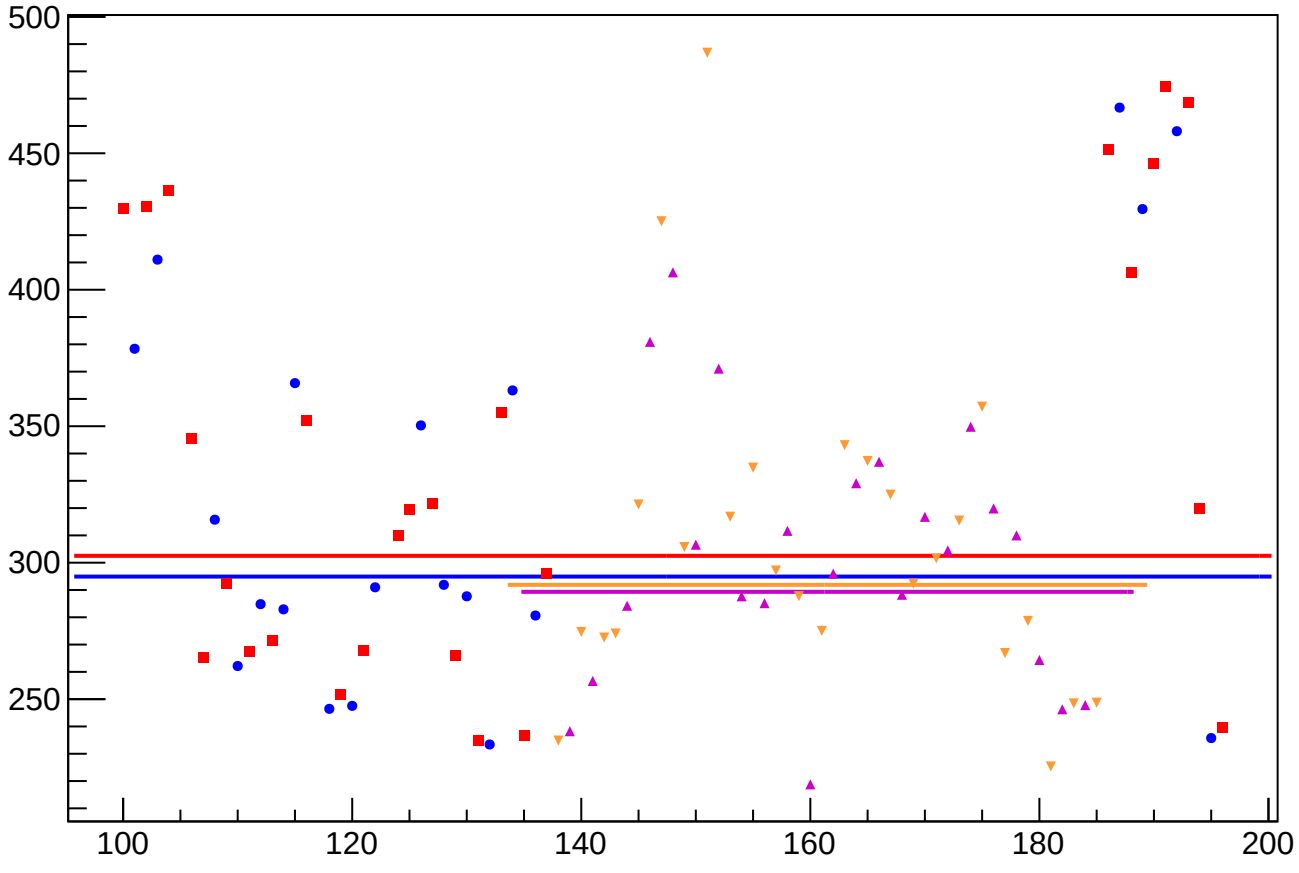
Right: -239.153+/-66.398 $\chi^2$/NDF: 2805.8/45

In: -171.856+/-56.270 $\chi^2$/NDF:1316.1/42

Out: 733.708+/-54.283 $\chi^2$/NDF:3191.2/50

All: 297.201+/-39.068 $\chi^2$/NDF: 4641.4/93

# asym_bpm0r03WS_rms vs Slug, Sign Corrected




Right In: 294.915+/-0.069 $\chi^2$/NDF: 873287.3/19

Left Out: 291.882+/-0.048 $\chi^2$/NDF:959919.3/24

Right Out: 302.516+/-0.064 $\chi^2$/NDF: 1177251.2/25

Left In: 289.321+/-0.049 $\chi^2$/NDF:808605.3/22

Left: 290.626+/-0.034 $\chi^2$/NDF: 1769929.4/47

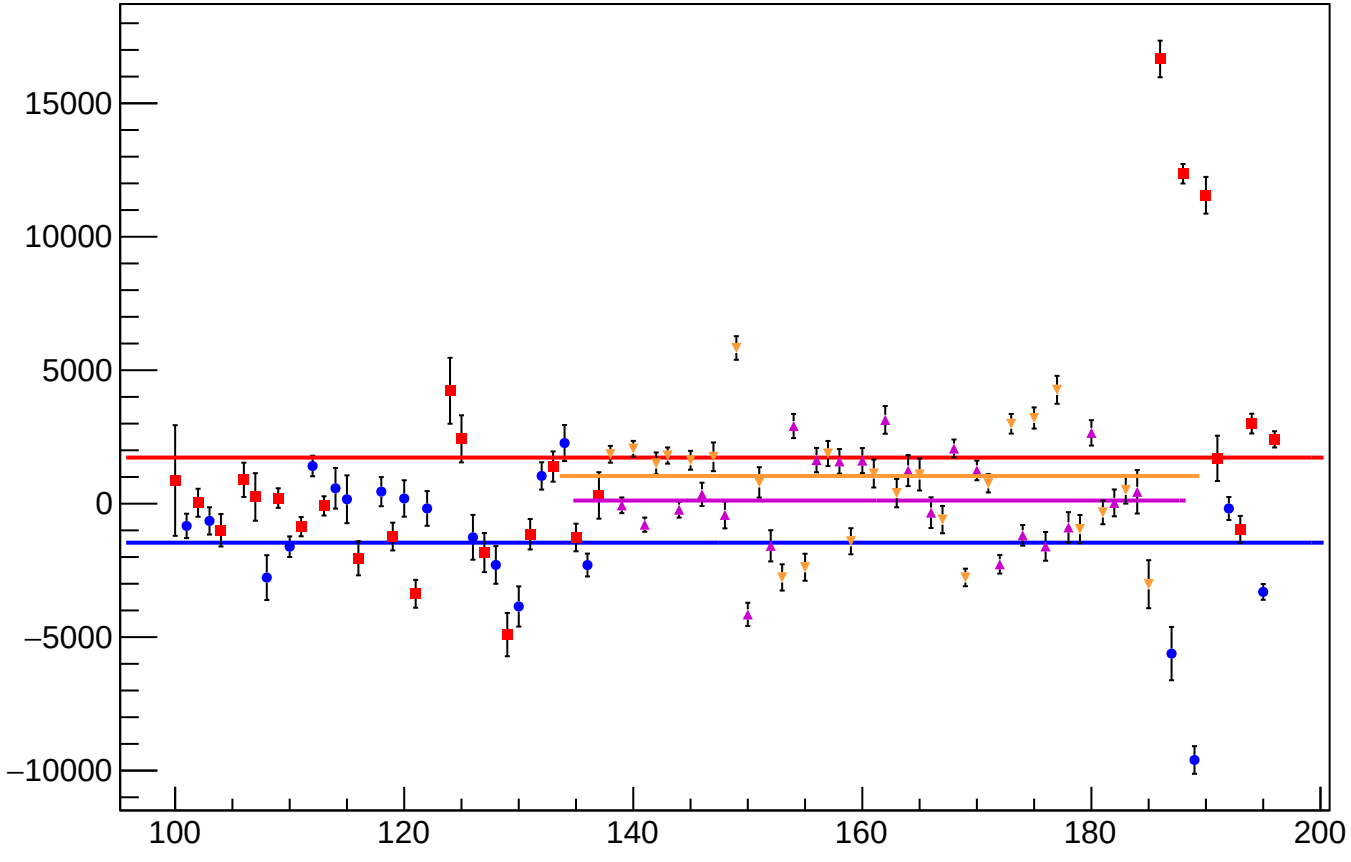
Right: 298.974+/-0.047 $\chi^2$/NDF: 2057060.2/45

In: 291.193+/-0.040 $\chi^2$/NDF:1686293.3/42

Out: 295.678+/-0.038 $\chi^2$/NDF:2154785.5/50

All: 293.516+/-0.028 $\chi^2$/NDF: 3847660.4/93

# asym_bpm0r05WS_mean vs Slug, Sign Corrected




Right In: -1461.233+/-117.337 $\chi^2$/NDF: 477.7/19

Left Out: 1037.330+/-85.200 $\chi^2$/NDF:570.2/24

Right Out: 1726.918+/-102.663 $\chi^2$/NDF: 2030.2/25

Left In: 117.211+/-87.461 $\chi^2$/NDF:370.4/22

Left: 589.317+/-61.029 $\chi^2$/NDF: 997.4/47

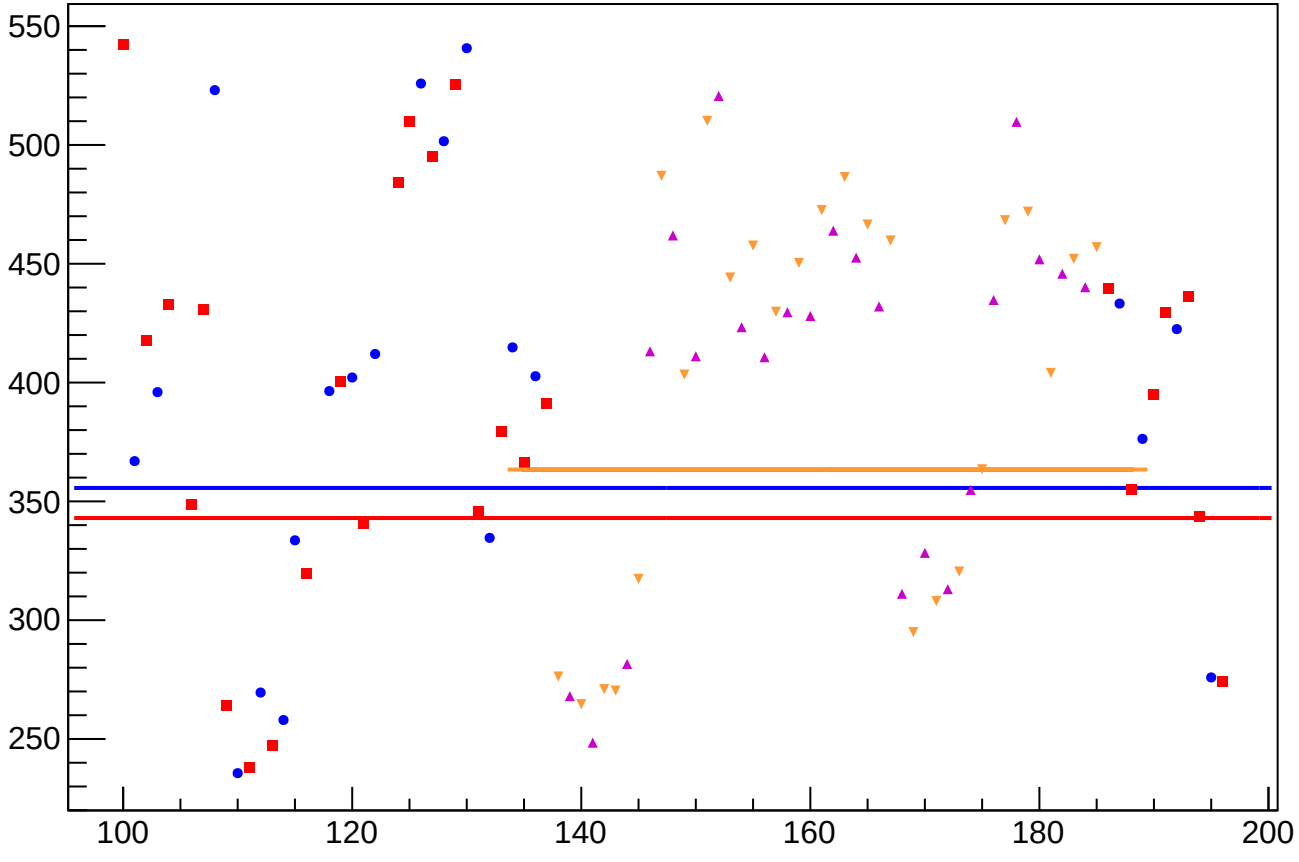
Right: 344.551+/-77.264 $\chi^2$/NDF: 2926.1/45

In: -446.544+/-70.124 $\chi^2$/NDF:964.5/42

Out: 1318.572+/-65.563 $\chi^2$/NDF:2627.1/50

All: 495.278+/-47.891 $\chi^2$/NDF: 3929.6/93

# asym_bpm0r05WS_rms vs Slug, Sign Corrected




Right In: 355.644+/-0.083 $\chi^2$/NDF: 997041.4/19

Left Out: 363.387+/-0.060 $\chi^2$/NDF:1940497.4/24

Right Out: 342.989+/-0.073 $\chi^2$/NDF: 1103225.9/25

Left In: 363.386+/-0.062 $\chi^2$/NDF:1711599.2/22

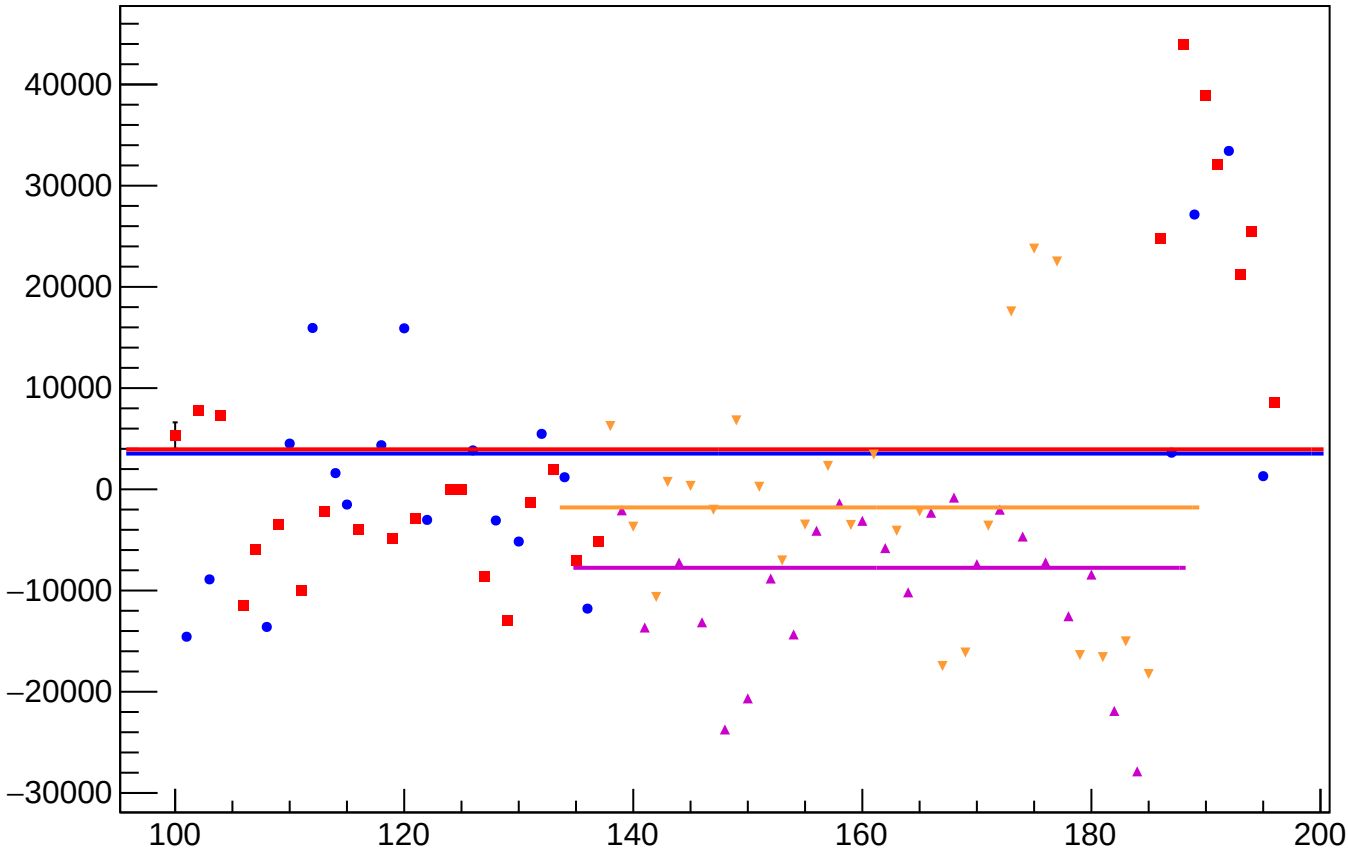
Left: 363.387+/-0.043 $\chi^2$/NDF: 3652096.5/47

Right: 348.476+/-0.055 $\chi^2$/NDF: 2113443.2/45

In: 360.621+/-0.050 $\chi^2$/NDF:2714238.1/42

Out: 355.068+/-0.046 $\chi^2$/NDF:3090474.7/50

All: 357.658+/-0.034 $\chi^2$/NDF: 5811404.7/93




Right In: 3531.955+/-48.702 $\chi^2$/NDF: 70211.5/19

Left Out: -1790.289+/-40.910 $\chi^2$/NDF:65745.9/24

Right Out: 3951.030+/-44.375 $\chi^2$/NDF: 128845.4/25

Left In: -7754.468+/-42.571 $\chi^2$/NDF:23278.0/22

Left: -4653.749+/-29.498 $\chi^2$/NDF: 99228.2/47

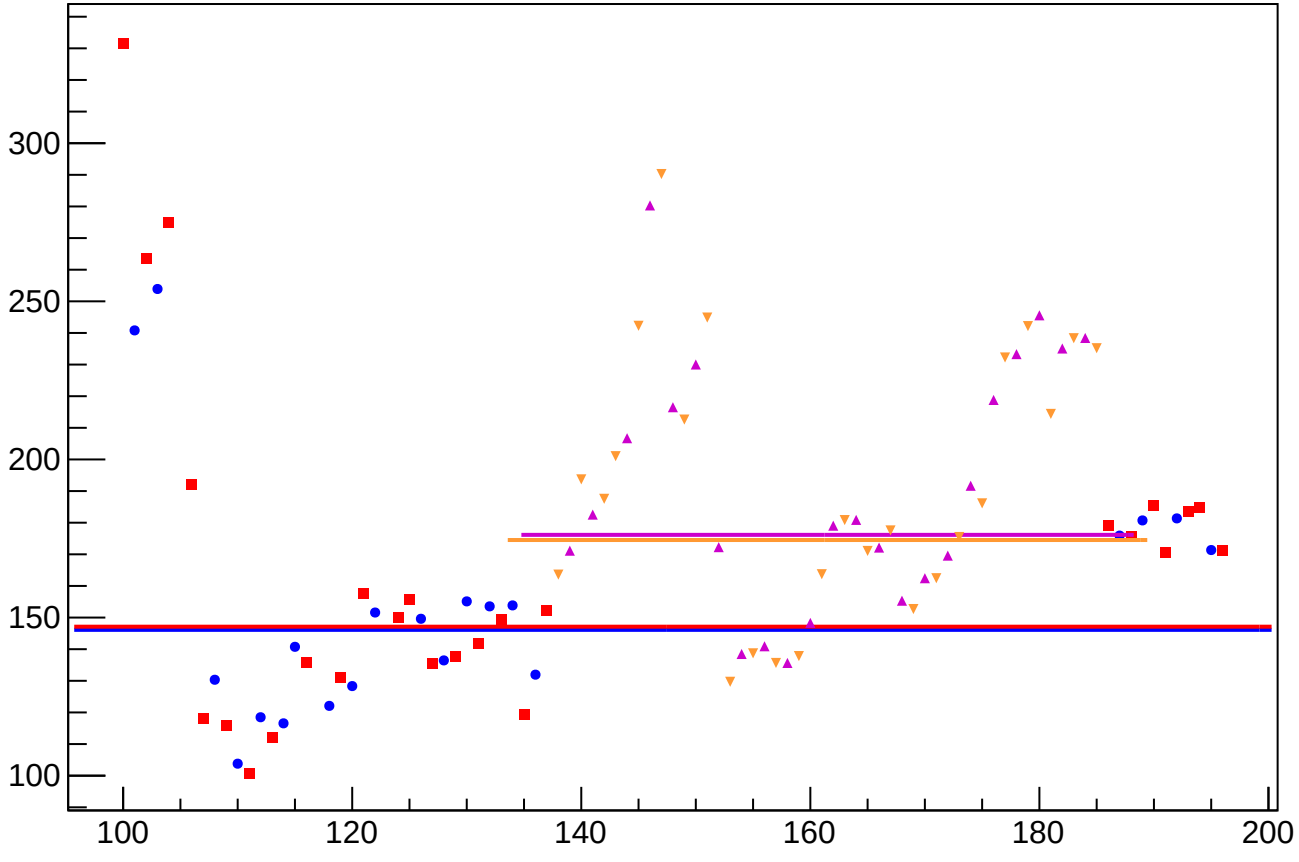
Right: 3760.936+/-32.801 $\chi^2$/NDF: 199097.3/45

In: -2866.009+/-32.052 $\chi^2$/NDF:123933.3/42

Out: 847.519+/-30.078 $\chi^2$/NDF:203640.2/50

All: -891.372+/-21.933 $\chi^2$/NDF: 334711.1/93

# asym_bpm0i02WS_rms vs Slug, Sign Corrected




Right In: 146.114+/-0.034 $\chi^2$/NDF: 855005.6/19

Left Out: 174.520+/-0.029 $\chi^2$/NDF:1659469.6/24

Right Out: 147.116+/-0.031 $\chi^2$/NDF: 1277148.9/25

Left In: 176.155+/-0.030 $\chi^2$/NDF:1367059.2/22

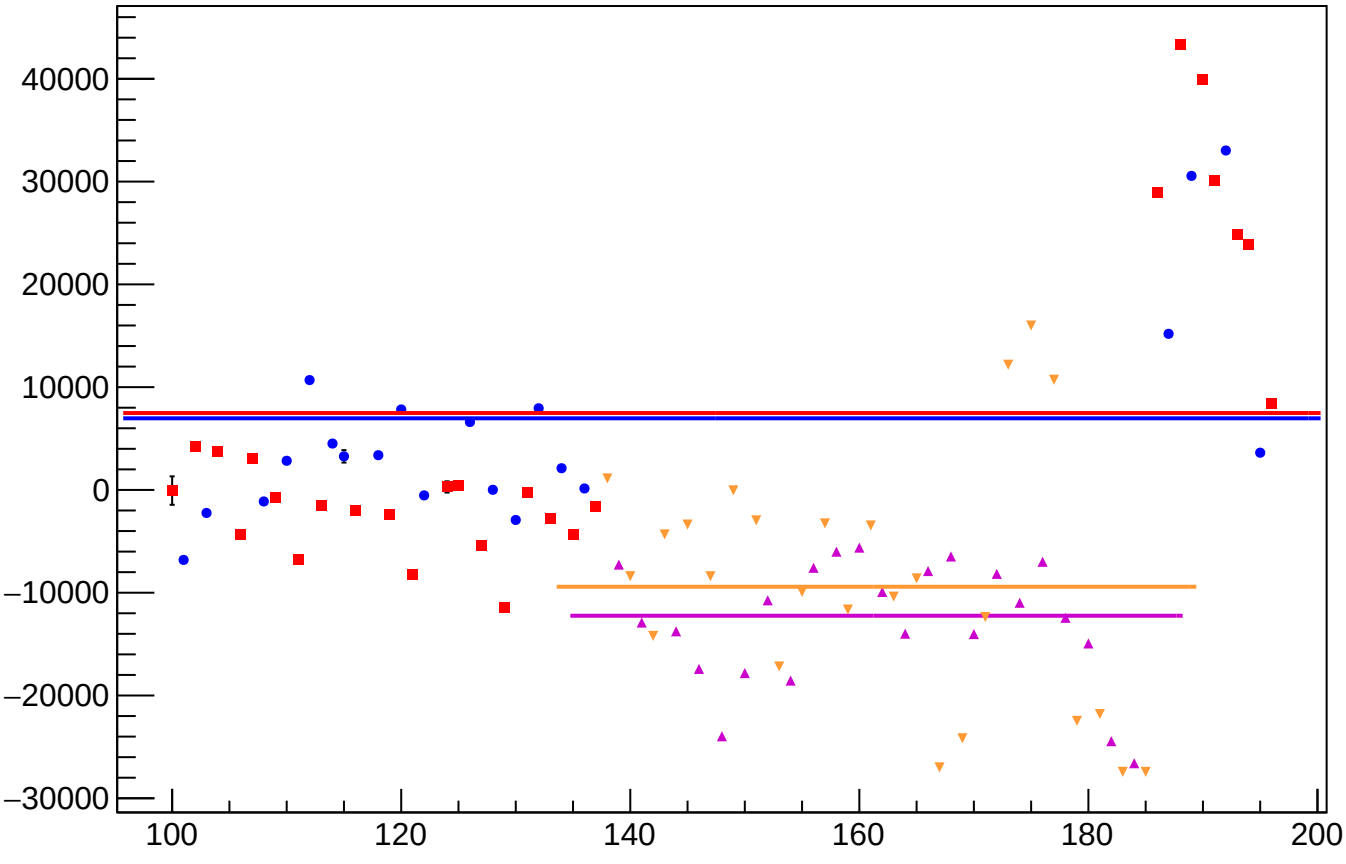
Left: 175.305+/-0.021 $\chi^2$/NDF: 3028060.8/47

Right: 146.661+/-0.023 $\chi^2$/NDF: 2132616.7/45

In: 163.143+/-0.023 $\chi^2$/NDF:2653416.6/42

Out: 161.930+/-0.021 $\chi^2$/NDF:3348959.7/50

All: 162.498+/-0.016 $\chi^2$/NDF: 6003901.0/93




Right In: 6967.673+/-59.406 $\chi^2$/NDF: 32480.0/19

Left Out: -9420.181+/-45.698 $\chi^2$/NDF:64719.0/24

Right Out: 7481.989+/-52.466 $\chi^2$/NDF: 97546.8/25

Left In: -12238.678+/-44.195 $\chi^2$/NDF:16015.8/22

Left: -10876.538+/-31.769 $\chi^2$/NDF: 82700.4/47

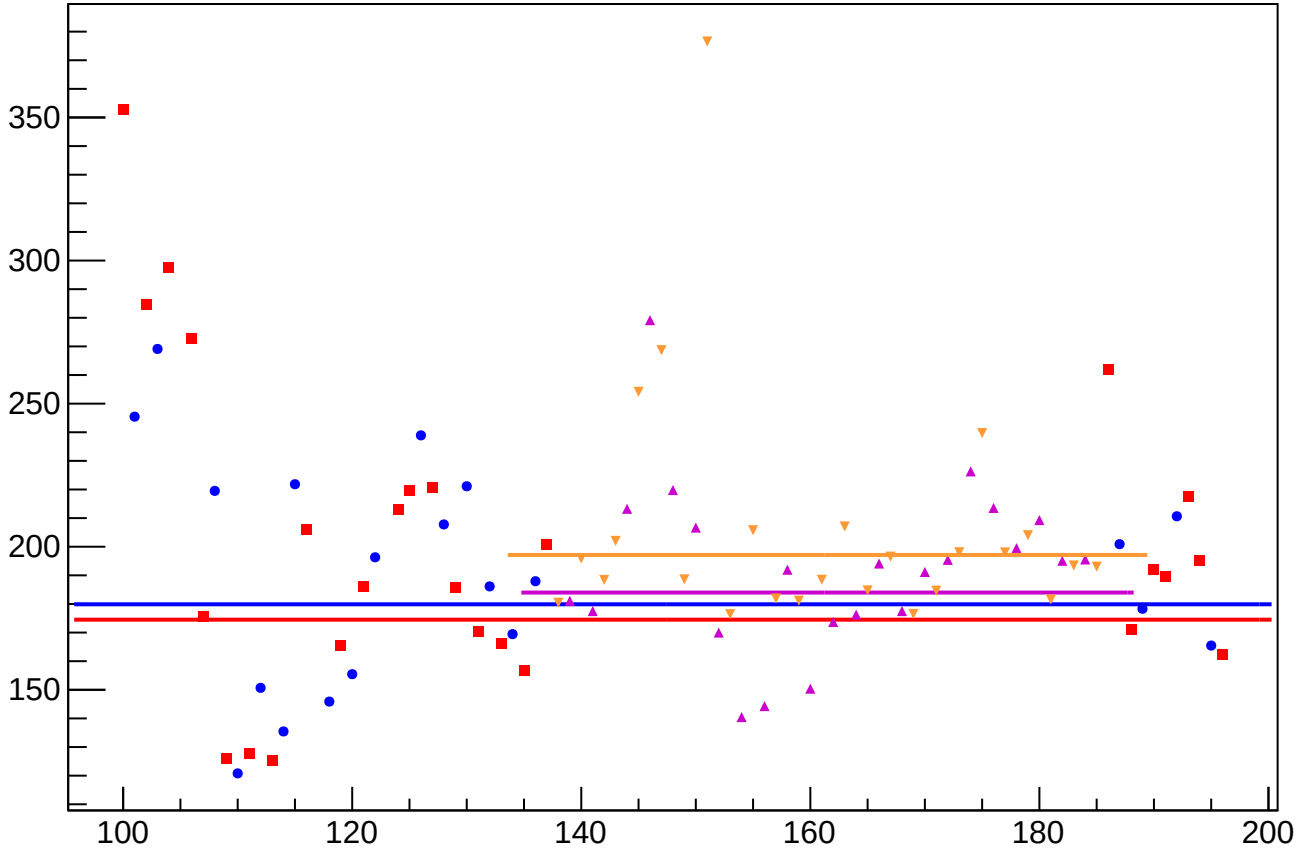
Right: 7256.614+/-39.325 $\chi^2$/NDF: 130068.9/45

In: -5395.882+/-35.459 $\chi^2$/NDF:115782.9/42

Out: -2128.911+/-34.459 $\chi^2$/NDF:221279.6/50

All: -3715.712+/-24.712 $\chi^2$/NDF: 341428.1/9

# asym_bpm0i02aWS_rms vs Slug, Sign Corrected




Right In: 179.886+/-0.042 $\chi^2$/NDF: 733999.9/19

Left Out: 197.122+/-0.032 $\chi^2$/NDF:732529.8/24

Right Out: 174.510+/-0.037 $\chi^2$/NDF: 1187057.2/25

Left In: 183.985+/-0.031 $\chi^2$/NDF:829778.1/22

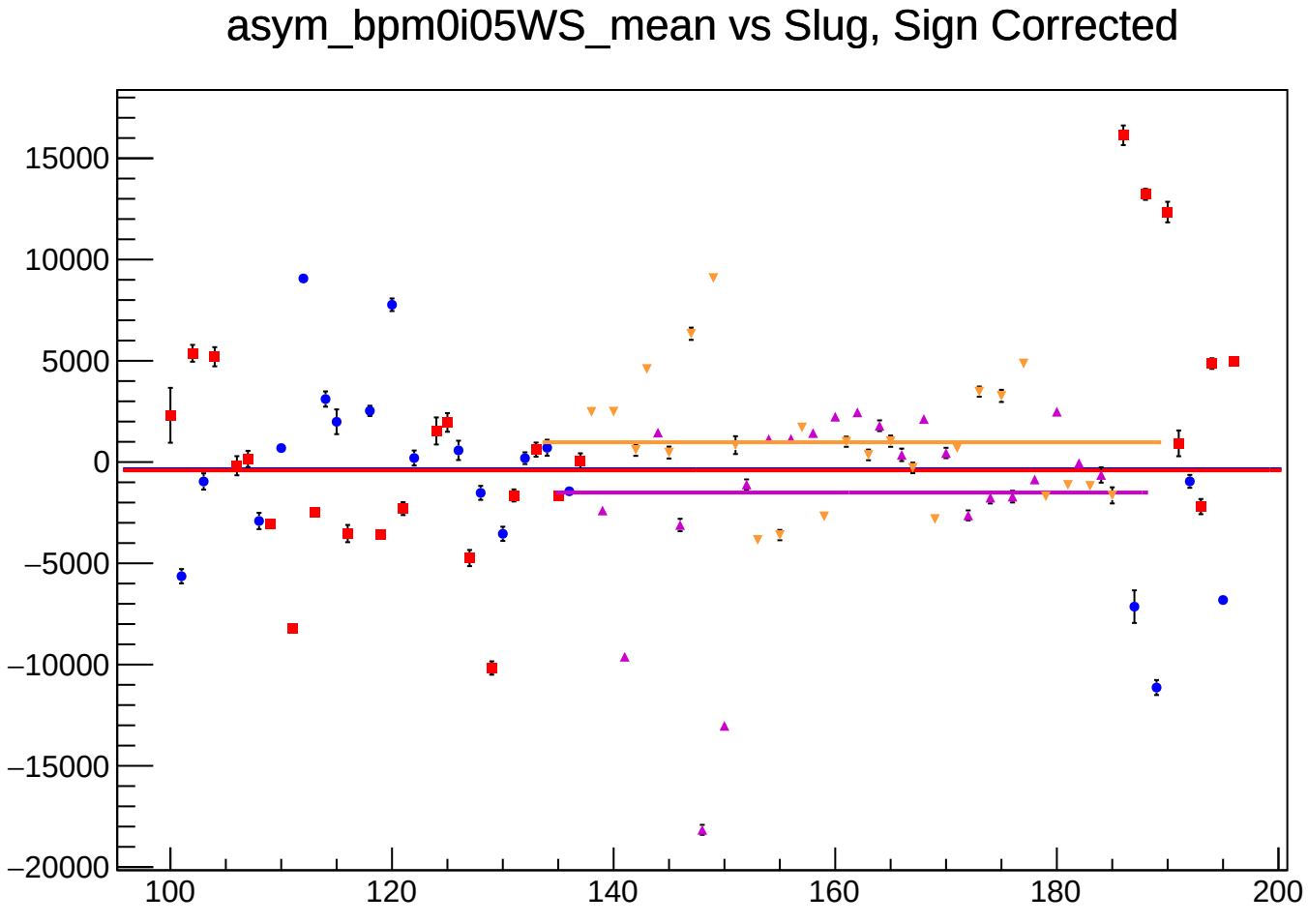
Left: 190.334+/-0.022 $\chi^2$/NDF: 1647711.2/47

Right: 176.866+/-0.028 $\chi^2$/NDF: 1930261.8/45

In: 182.525+/-0.025 $\chi^2$/NDF:1569907.3/42

Out: 187.368+/-0.024 $\chi^2$/NDF:2130840.3/50

All: 185.016+/-0.017 $\chi^2$/NDF: 3719932.0/93




Right In: -353.107+/-67.770 $\chi^2$/NDF: 5043.3/19

Left Out: 978.429+/-49.607 $\chi^2$/NDF:4322.9/24

Right Out: -408.858+/-59.674 $\chi^2$/NDF: 9155.8/25

Left In: -1505.093+/-48.051 $\chi^2$/NDF:11480.6/22

Left: -302.894+/-34.514 $\chi^2$/NDF: 17096.7/47

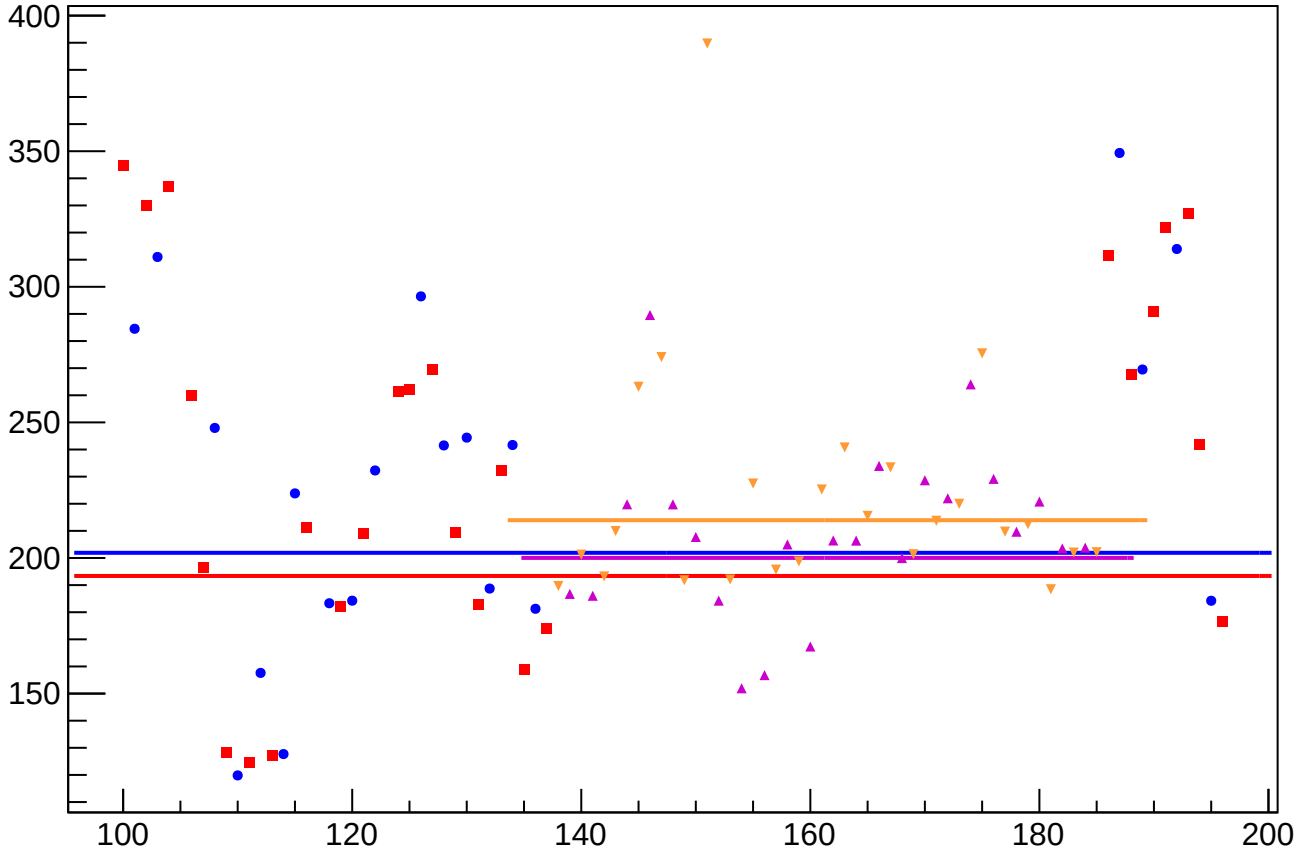
Right: -384.510+/-44.786 $\chi^2$/NDF: 14199.5/45

In: -1119.709+/-39.198 $\chi^2$/NDF:16716.2/42

Out: 411.509+/-38.147 $\chi^2$/NDF:13798.4/50

All: -333.305+/-27.338 $\chi^2$/NDF: 31298.3/93

# asym_bpm0i05WS_rms vs Slug, Sign Corrected




Right In: 201.914+/-0.048 $\chi^2$/NDF: 1383228.2/19

Left Out: 213.931+/-0.035 $\chi^2$/NDF:733638.6/24

Right Out: 193.374+/-0.042 $\chi^2$/NDF: 2227333.2/25

Left In: 200.031+/-0.034 $\chi^2$/NDF:785525.4/22

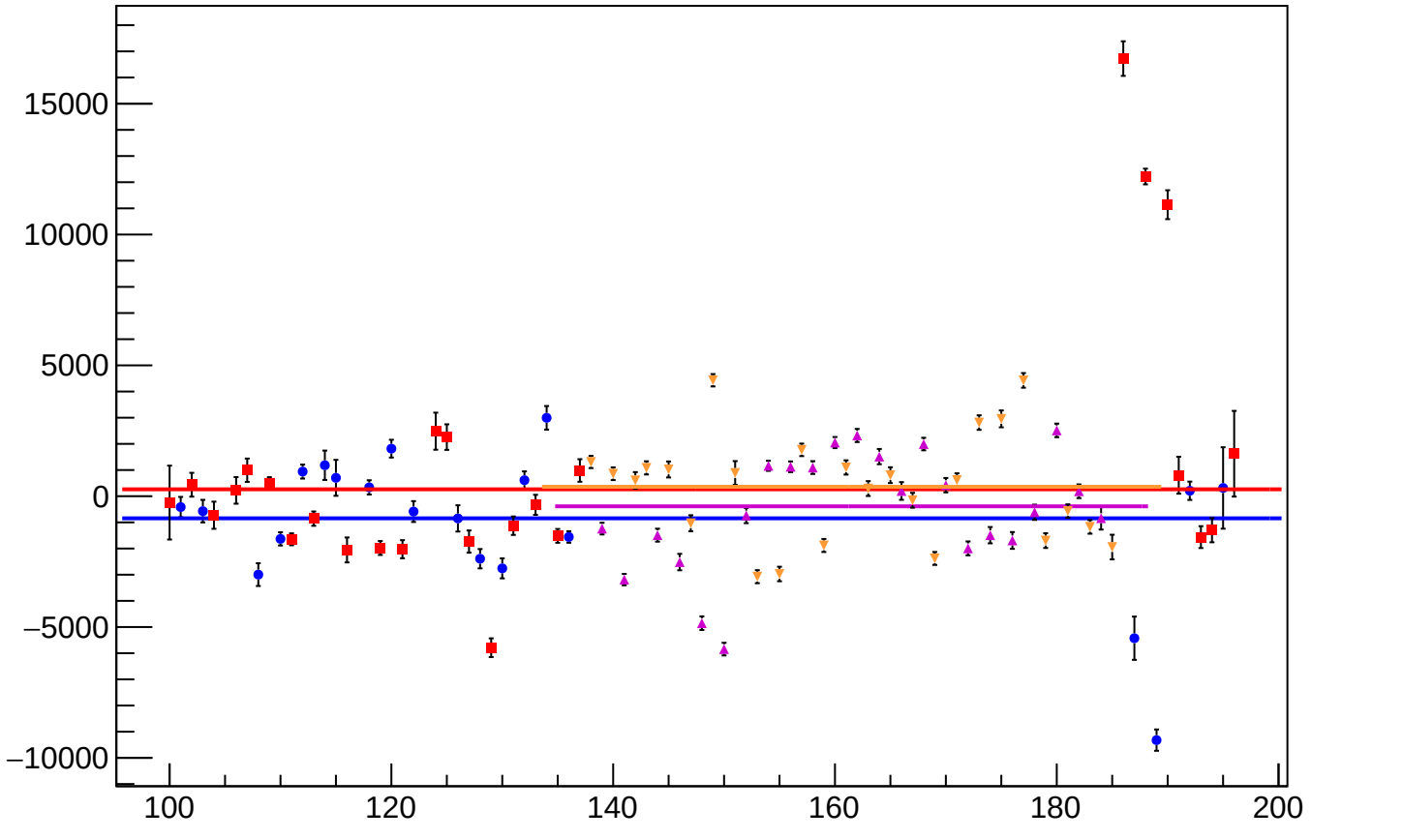
Left: 206.759+/-0.024 $\chi^2$/NDF: 1600185.7/47

Right: 197.104+/-0.032 $\chi^2$/NDF: 3628448.0/45

In: 200.661+/-0.028 $\chi^2$/NDF:2169781.4/42

Out: 205.531+/-0.027 $\chi^2$/NDF:3101320.4/50

All: 203.162+/-0.019 $\chi^2$/NDF: 5286956.8/93




Right In: -845.583+/-81.884 $\chi^2$/NDF: 796.8/19

Left Out: 358.680+/-54.992 $\chi^2$/NDF:1418.9/24

Right Out: 263.228+/-74.103 $\chi^2$/NDF: 3268.7/25

Left In: -386.941+/-53.528 $\chi^2$/NDF:1804.2/22

Left: -24.183+/-38.357 $\chi^2$/NDF: 3317.4/47

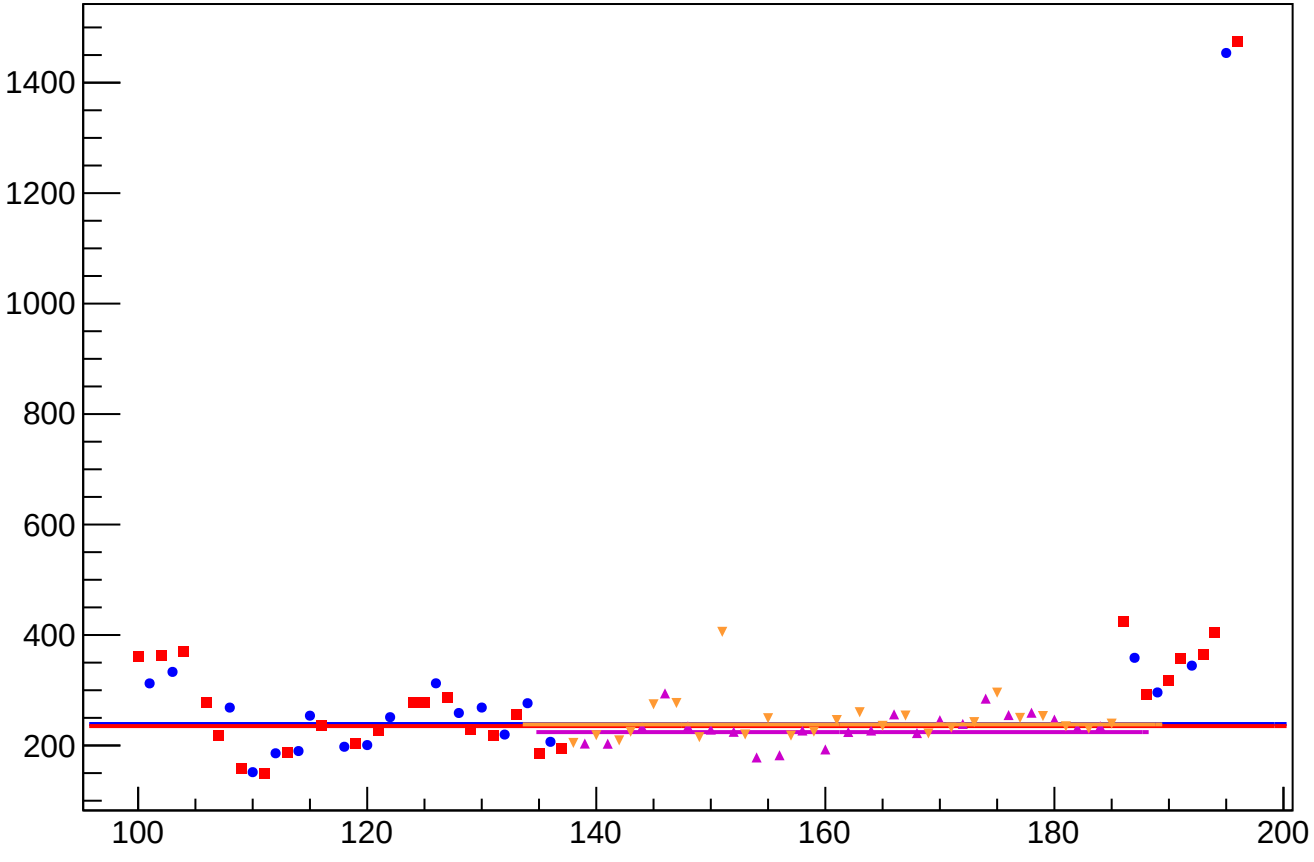
Right: -236.001+/-54.944 $\chi^2$/NDF: 4166.4/45

In: -524.255+/-44.804 $\chi^2$/NDF:2623.0/42

Out: 324.782+/-44.160 $\chi^2$/NDF:4688.7/50

All: -93.588+/-31.451 $\chi^2$/NDF: 7493.8/93

# asym_bpm0i07WS_rms vs Slug, Sign Corrected




Right In: 238.838+/-0.058 $\chi^2$/NDF: 2189011.3/19

Left Out: 238.199+/-0.039 $\chi^2$/NDF:567935.3/24

Right Out: 235.101+/-0.052 $\chi^2$/NDF: 3050816.2/25

Left In: 224.212+/-0.038 $\chi^2$/NDF:563231.1/22

Left: 231.017+/-0.027 $\chi^2$/NDF: 1197606.4/47

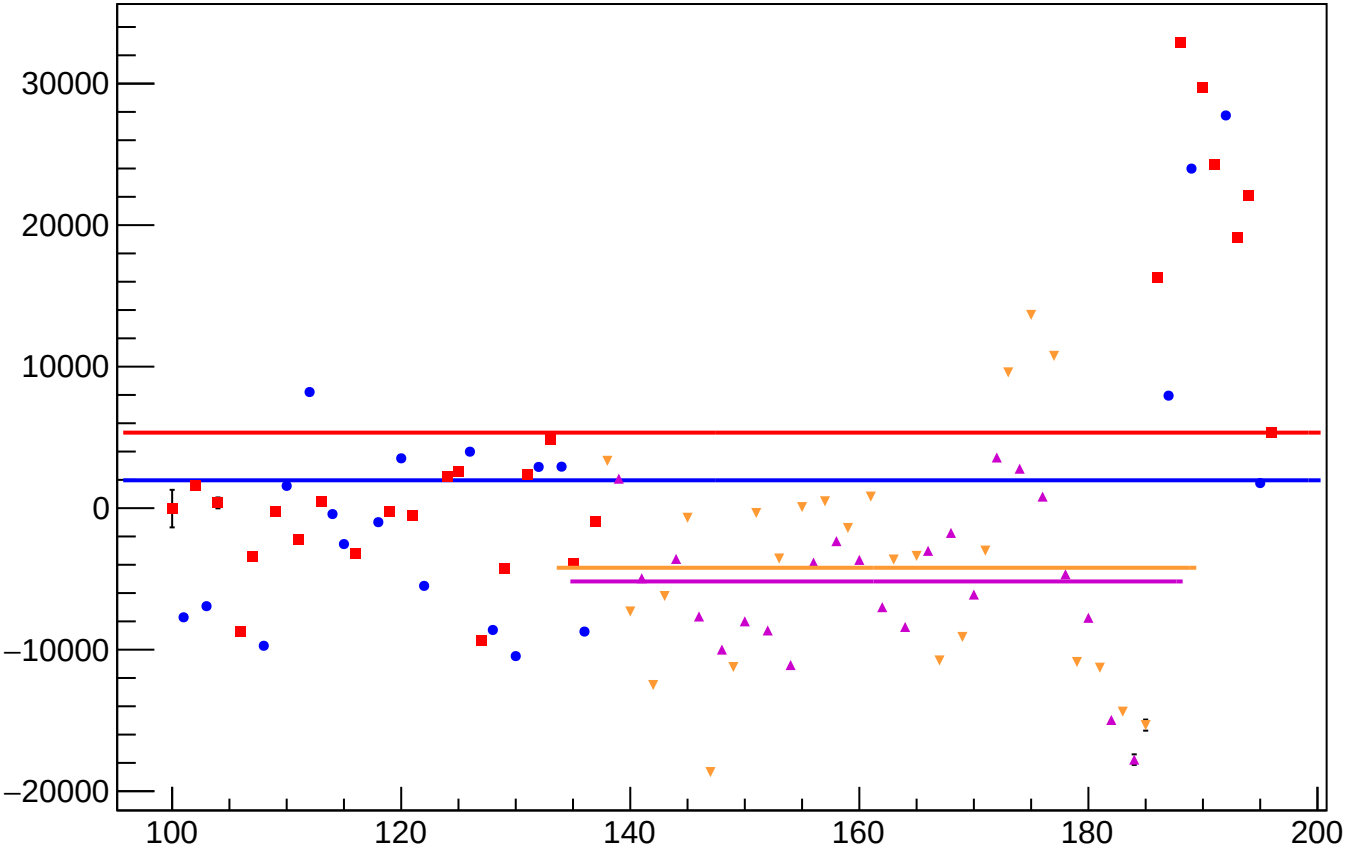
Right: 236.784+/-0.039 $\chi^2$/NDF: 5242118.6/45

In: 228.591+/-0.032 $\chi^2$/NDF:2796950.3/42

Out: 237.099+/-0.031 $\chi^2$/NDF:3621006.6/50

All: 232.907+/-0.022 $\chi^2$/NDF: 6454536.6/93

# asym_bpm1i02WS_mean vs Slug, Sign Corrected




Right In: 1968.852+/-41.418 $\chi^2$/NDF: 68454.8/19

Left Out: -4210.601+/-30.828 $\chi^2$/NDF:56802.7/24

Right Out: 5337.653+/-37.419 $\chi^2$/NDF: 101168.5/25

Left In: -5178.213+/-31.969 $\chi^2$/NDF:18541.3/22

Left: -4676.831+/-22.191 $\chi^2$/NDF: 75818.6/47

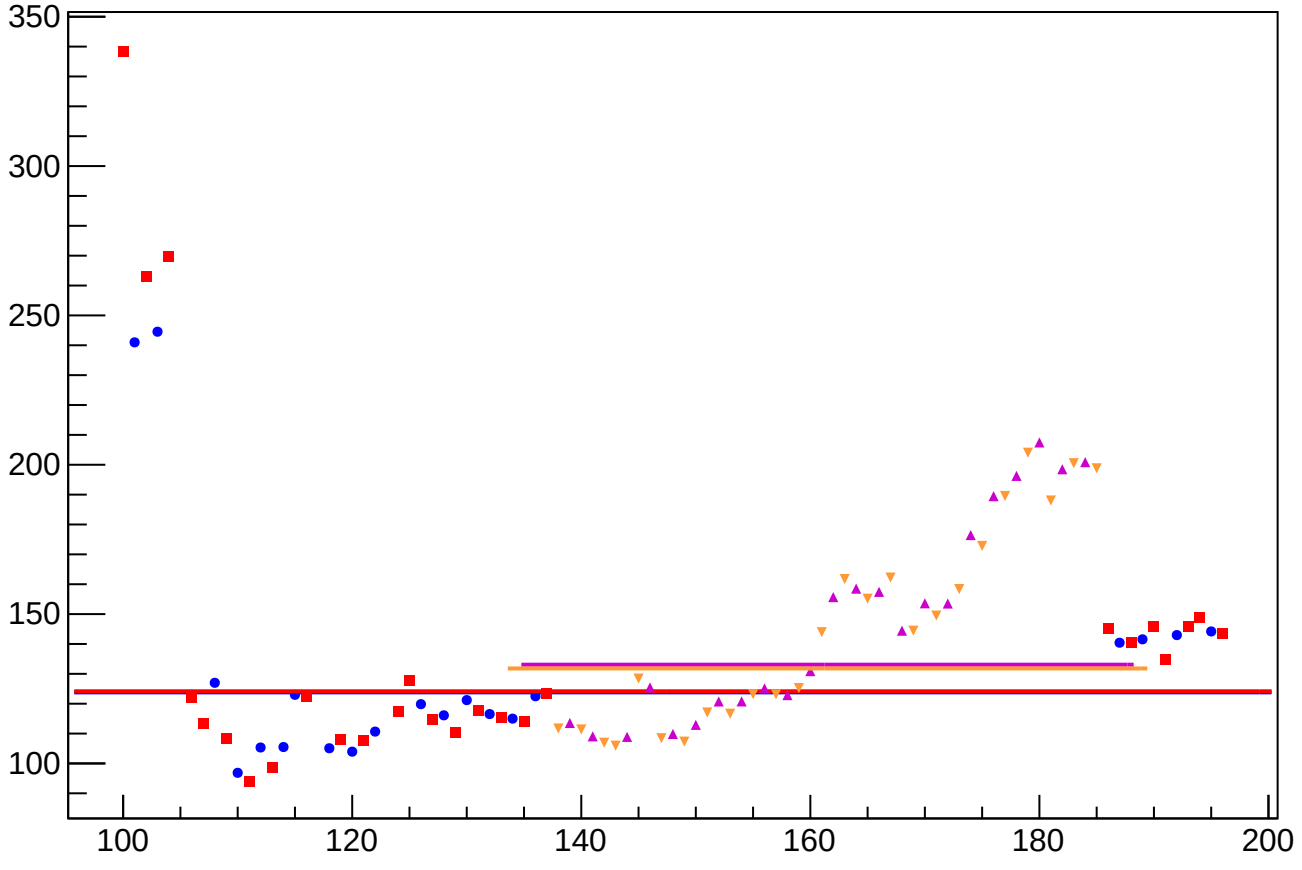
Right: 3823.703+/-27.766 $\chi^2$/NDF: 173265.8/45

In: -2509.865+/-25.307 $\chi^2$/NDF:105655.7/42

Out: -350.021+/-23.793 $\chi^2$/NDF:196757.4/50

All: -1363.407+/-17.335 $\chi^2$/NDF: 306279.3/9

# asym_bpm1i02WS_rms vs Slug, Sign Corrected




Right In: 123.799+/-0.029 $\chi^2$/NDF: 850316.3/19

Left Out: 131.798+/-0.022 $\chi^2$/NDF:1544340.3/24

Right Out: 124.160+/-0.026 $\chi^2$/NDF: 1110648.6/25

Left In: 133.061+/-0.023 $\chi^2$/NDF:1418252.2/22

Left: 132.406+/-0.016 $\chi^2$/NDF: 2964211.9/47

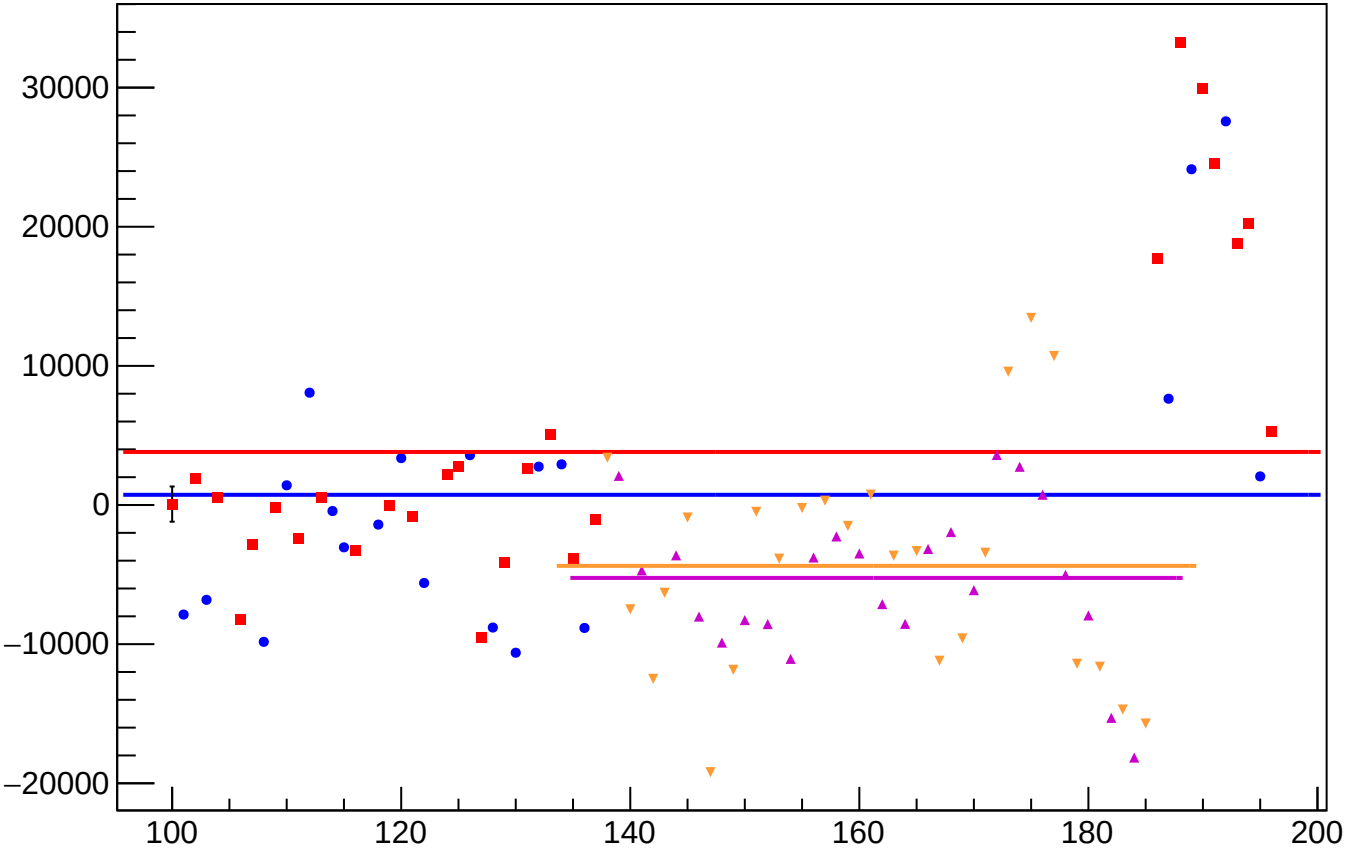
Right: 123.997+/-0.020 $\chi^2$/NDF: 1961048.6/45

In: 129.603+/-0.018 $\chi^2$/NDF:2331252.2/42

Out: 128.709+/-0.017 $\chi^2$/NDF:2704626.7/50

All: 129.129+/-0.012 $\chi^2$/NDF: 5037202.8/93

# asym_bpm1i04WS_mean vs Slug, Sign Corrected




Right In: 733.788+/-36.301 $\chi^2$/NDF: 72980.5/19

Left Out: -4372.743+/-27.955 $\chi^2$/NDF:67218.5/24

Right Out: 3814.063+/-33.271 $\chi^2$/NDF: 109010.1/25

Left In: -5239.784+/-29.252 $\chi^2$/NDF:22273.2/22

Left: -4786.626+/-20.210 $\chi^2$/NDF: 89950.9/47

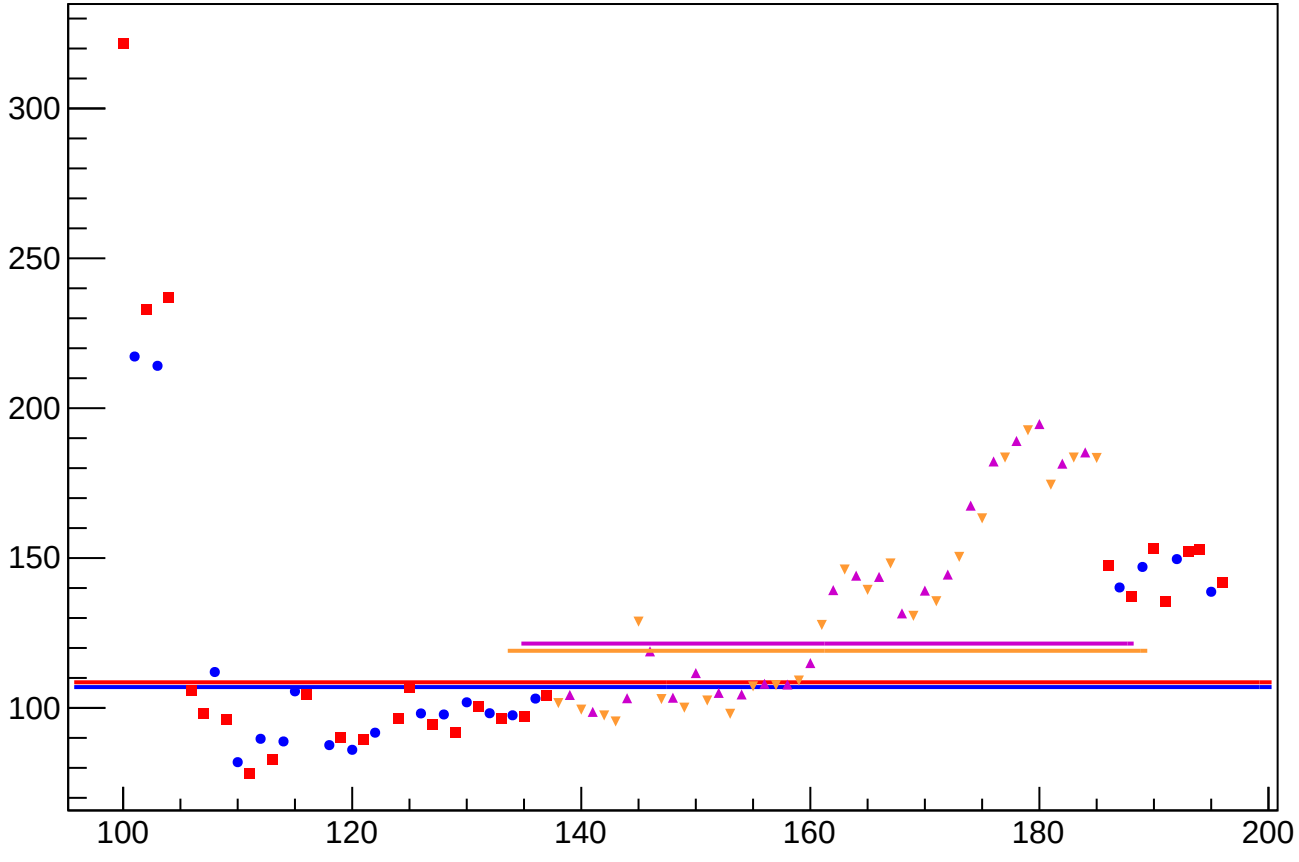
Right: 2407.795+/-24.527 $\chi^2$/NDF: 185903.6/45

In: -2888.007+/-22.777 $\chi^2$/NDF:111672.1/42

Out: -984.839+/-21.403 $\chi^2$/NDF:211719.6/50

All: -1877.301+/-15.597 $\chi^2$/NDF: 327099.4/9

# asym_bpm1i04WS_rms vs Slug, Sign Corrected




Right In: 106.951+/-0.026 $\chi^2$/NDF: 1222351.9/19

Left Out: 119.064+/-0.020 $\chi^2$/NDF:1755428.3/24

Right Out: 108.550+/-0.024 $\chi^2$/NDF: 1684070.5/25

Left In: 121.468+/-0.021 $\chi^2$/NDF:1529379.8/22

Left: 120.212+/-0.014 $\chi^2$/NDF: 3291866.1/47

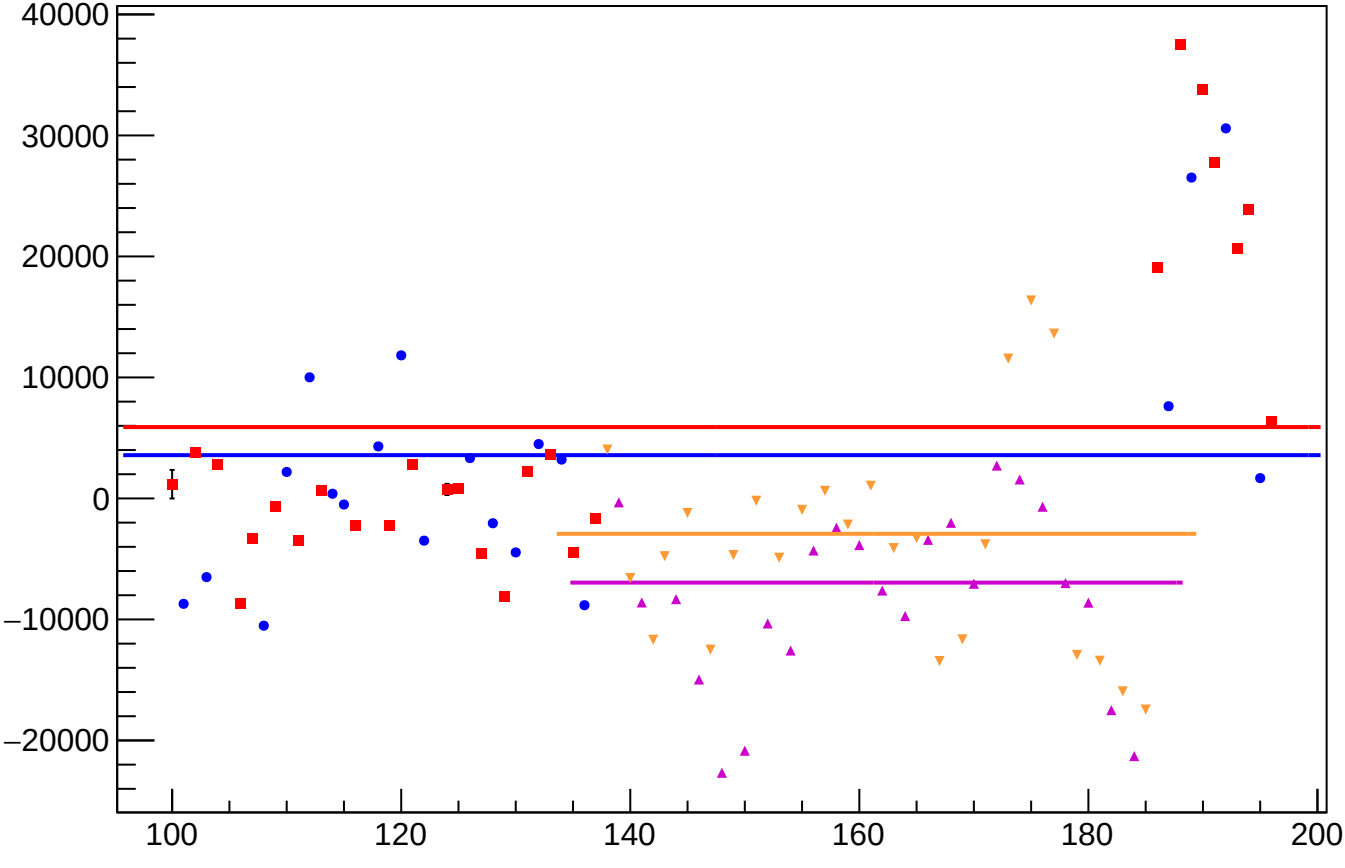
Right: 107.820+/-0.017 $\chi^2$/NDF: 2908529.7/45

In: 115.753+/-0.016 $\chi^2$/NDF:2945647.1/42

Out: 114.713+/-0.015 $\chi^2$/NDF:3556581.0/50

All: 115.201+/-0.011 $\chi^2$/NDF: 6504441.2/93

# asym_bpm1i06WS_mean vs Slug, Sign Corrected




Right In: 3575.947+/-47.927 $\chi^2$/NDF: 54678.4/19

Left Out: -2923.060+/-38.185 $\chi^2$/NDF:38052.4/24

Right Out: 5897.687+/-43.918 $\chi^2$/NDF: 90423.3/25

Left In: -6956.884+/-40.245 $\chi^2$/NDF:22339.0/22

Left: -4834.088+/-27.700 $\chi^2$/NDF: 65678.3/47

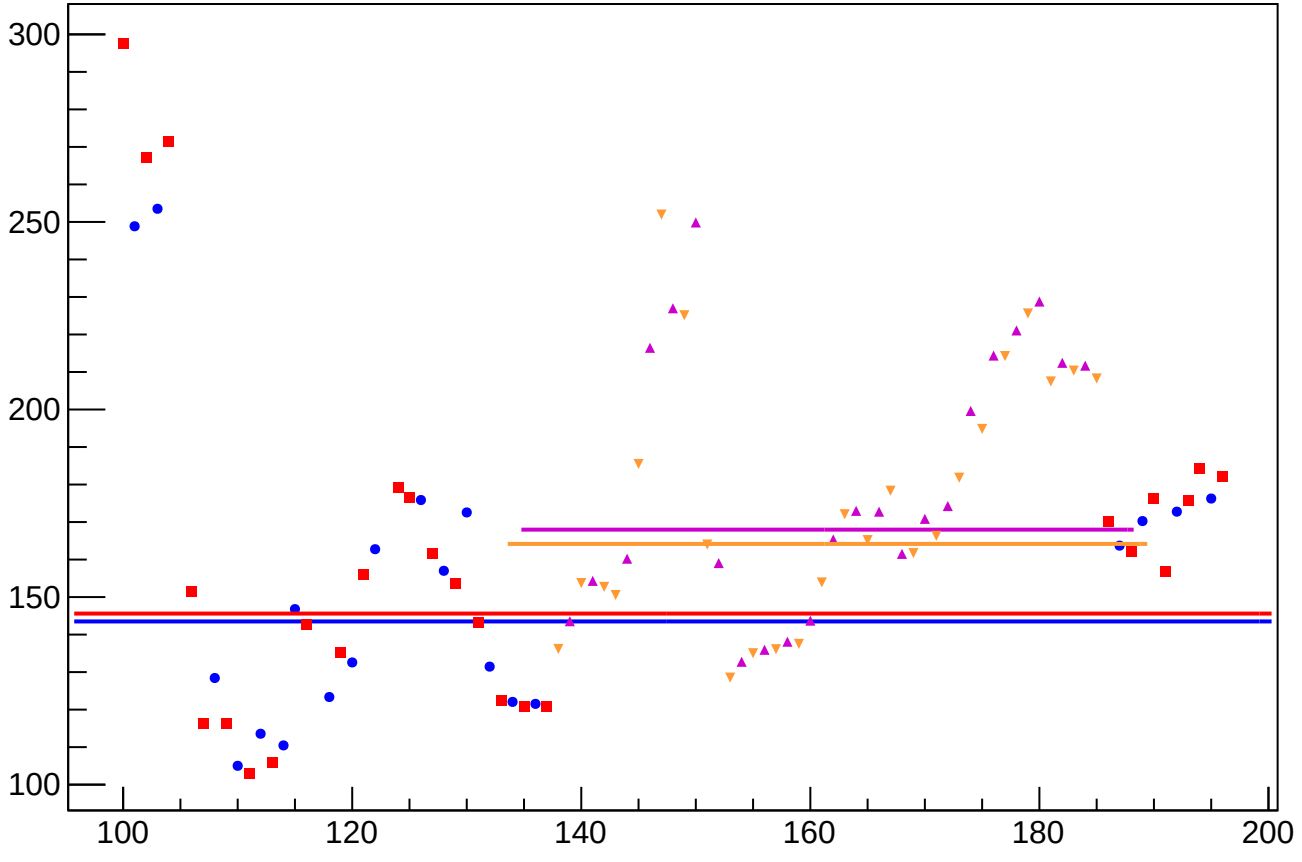
Right: 4837.959+/-32.380 $\chi^2$/NDF: 146377.3/45

In: -2601.237+/-30.820 $\chi^2$/NDF:105342.6/42

Out: 874.323+/-28.816 $\chi^2$/NDF:151448.1/50

All: -746.798+/-21.049 $\chi^2$/NDF: 263576.0/93

# asym_bpm1i06WS_rms vs Slug, Sign Corrected




Right In: 143.506+/-0.034 $\chi^2$/NDF: 979615.8/19

Left Out: 164.172+/-0.027 $\chi^2$/NDF:1224405.6/24

Right Out: 145.603+/-0.031 $\chi^2$/NDF: 1260367.1/25

Left In: 167.975+/-0.028 $\chi^2$/NDF:1222745.4/22

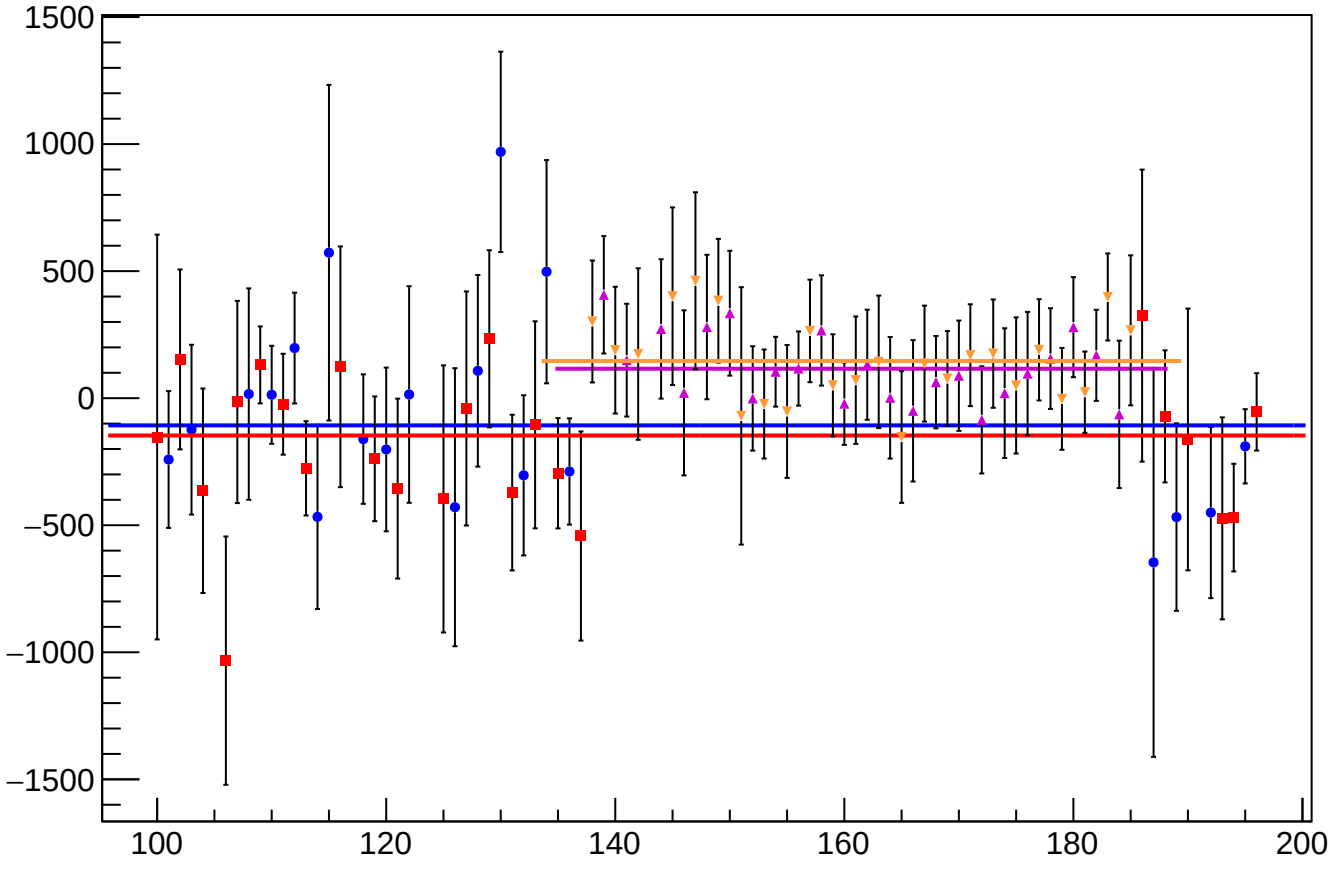
Left: 165.974+/-0.020 $\chi^2$/NDF: 2456548.5/47

Right: 144.646+/-0.023 $\chi^2$/NDF: 2242063.3/45

In: 157.856+/-0.022 $\chi^2$/NDF:2508096.2/42

Out: 156.178+/-0.020 $\chi^2$/NDF:2688397.4/50

All: 156.961+/-0.015 $\chi^2$/NDF: 5199658.6/93




Right In: -107.022+/-65.022 $\chi^2$/NDF: 18.9/19

Left Out: 146.352+/-46.929 $\chi^2$/NDF:10.0/23

Right Out: -146.861+/-57.070 $\chi^2$/NDF: 17.0/23

Left In: 115.974+/-43.605 $\chi^2$/NDF:7.6/22

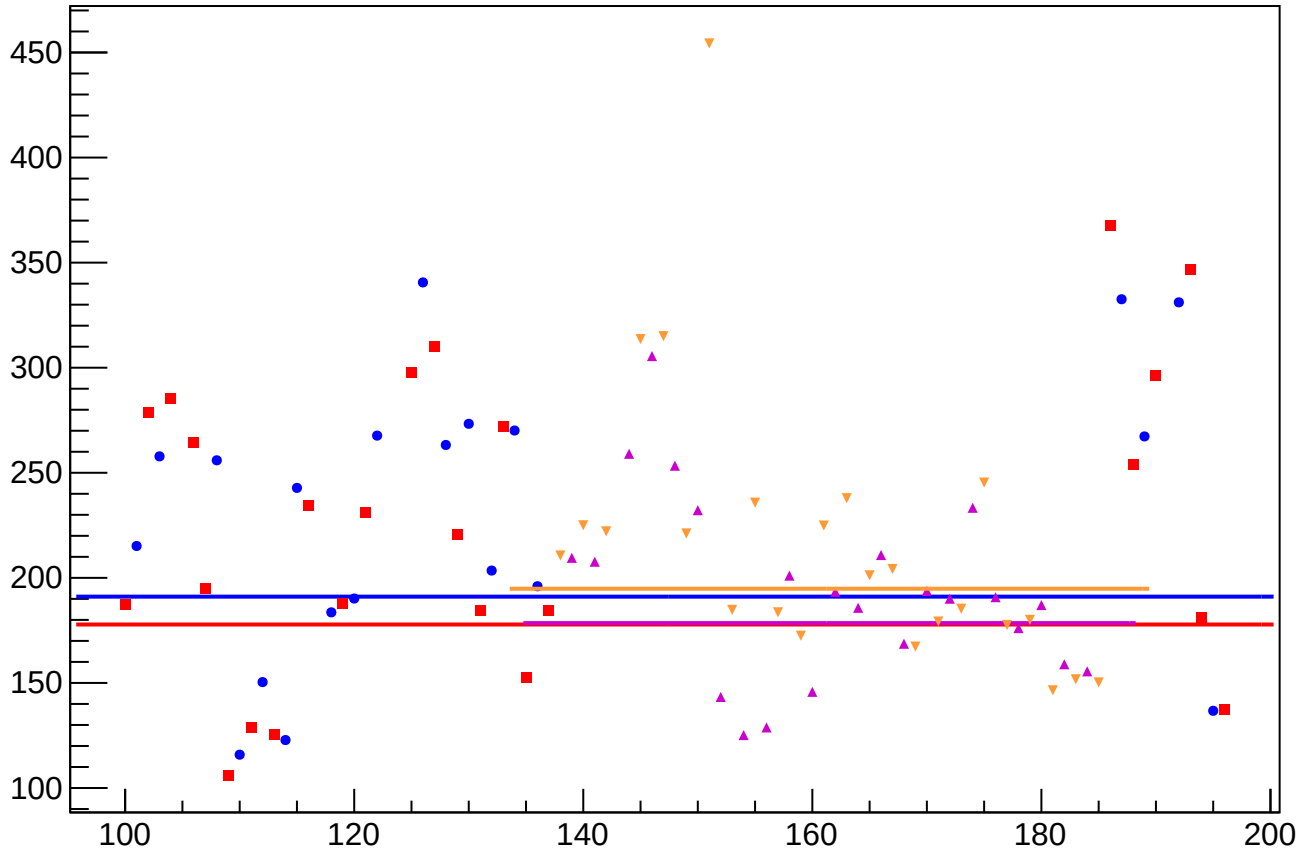
Left: 130.049+/-31.944 $\chi^2$/NDF: 17.8/46

Right: -129.525+/-42.892 $\chi^2$/NDF: 36.1/43

In: 46.798+/-36.215 $\chi^2$/NDF:34.6/42

Out: 28.068+/-36.248 $\chi^2$/NDF:42.7/47

All: 37.441+/-25.619 $\chi^2$/NDF: 77.5/90




Right In: 191.067+/-0.046 $\chi^2$/NDF: 1822371.3/19

Left Out: 194.828+/-0.033 $\chi^2$/NDF:1752475.1/23

Right Out: 177.805+/-0.040 $\chi^2$/NDF: 2615170.9/23

Left In: 178.475+/-0.031 $\chi^2$/NDF:1676266.4/22

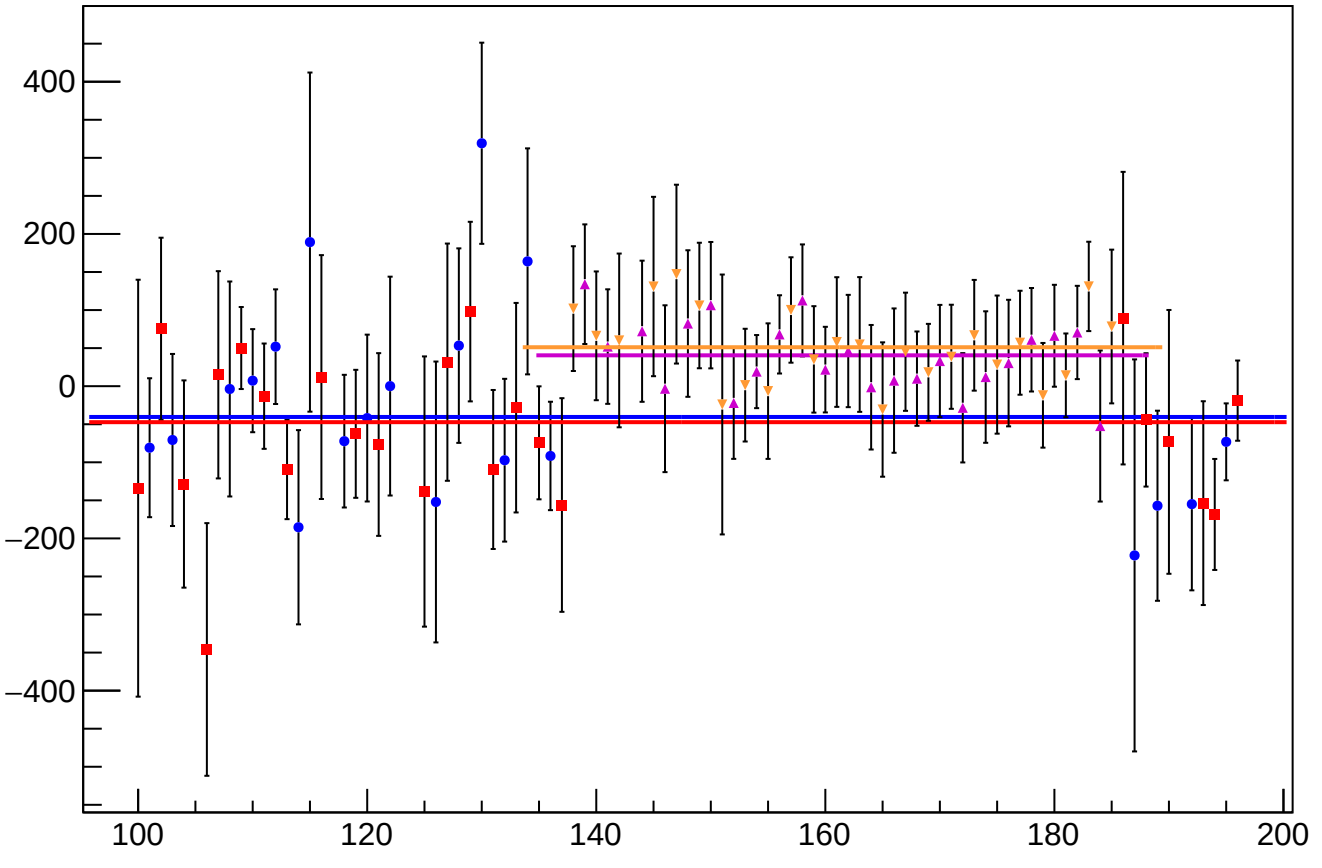
Left: 186.052+/-0.023 $\chi^2$/NDF: 3559074.3/46

Right: 183.576+/-0.030 $\chi^2$/NDF: 4484543.1/43

In: 182.382+/-0.026 $\chi^2$/NDF:3550375.2/42

Out: 187.961+/-0.026 $\chi^2$/NDF:4473816.9/47

All: 185.169+/-0.018 $\chi^2$/NDF: 8047905.9/90




Right In: -40.442+/-22.282 $\chi^2$/NDF: 18.7/19

Left Out: 51.161+/-16.037 $\chi^2$/NDF:8.1/23

Right Out: -47.284+/-19.679 $\chi^2$/NDF: 17.0/23

Left In: 40.540+/-14.978 $\chi^2$/NDF:7.9/22

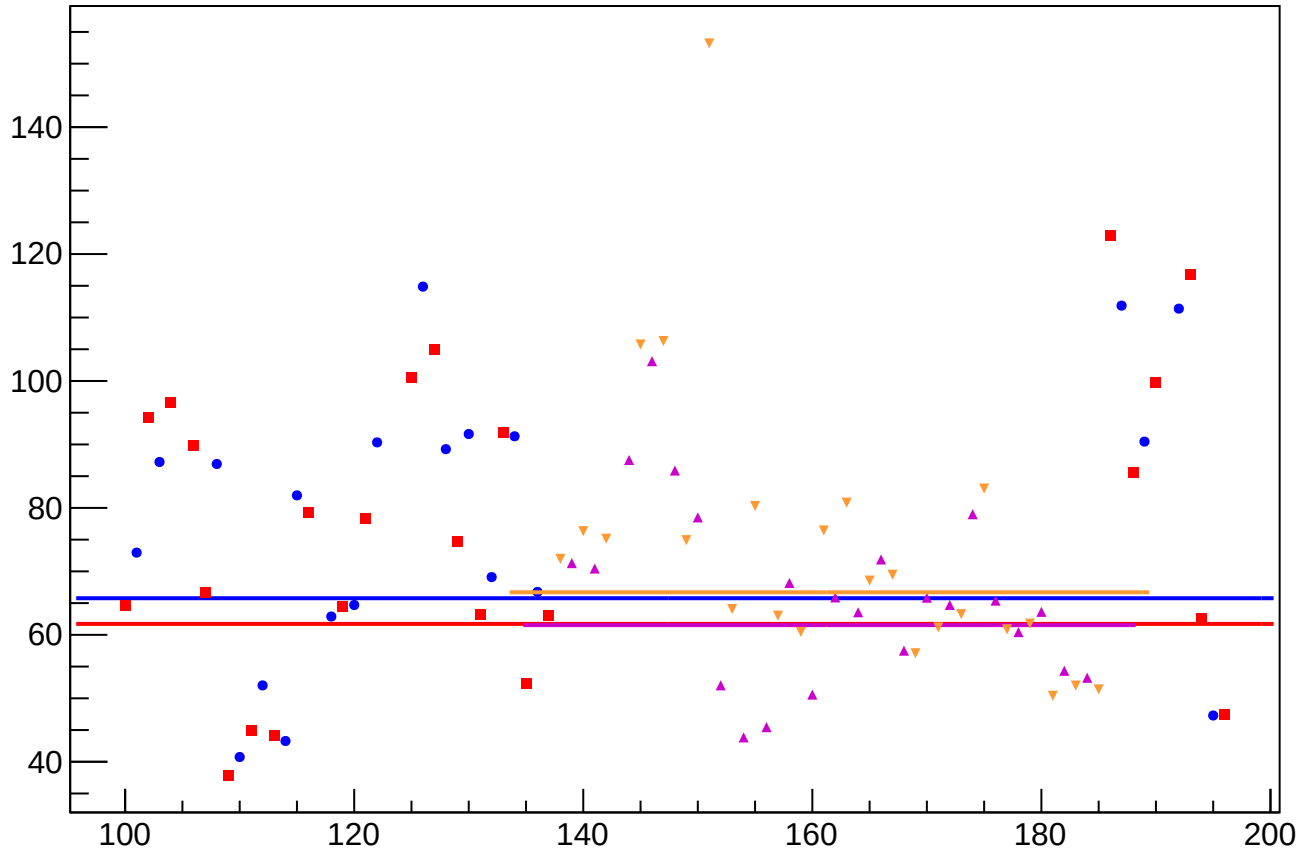
Left: 45.488+/-10.946 $\chi^2$/NDF: 16.2/46

Right: -44.286+/-14.750 $\chi^2$/NDF: 35.7/43

In: 15.337+/-12.430 $\chi^2$/NDF:35.7/42

Out: 11.874+/-12.432 $\chi^2$/NDF:40.1/47

All: 13.606+/-8.790 $\chi^2$/NDF: 75.8/90




Right In: 65.769+/-0.016 $\chi^2$/NDF: 1683693.6/19

Left Out: 66.703+/-0.011 $\chi^2$/NDF:1676329.9/23

Right Out: 61.724+/-0.014 $\chi^2$/NDF: 2396104.7/23

Left In: 61.529+/-0.011 $\chi^2$/NDF:1489848.4/22

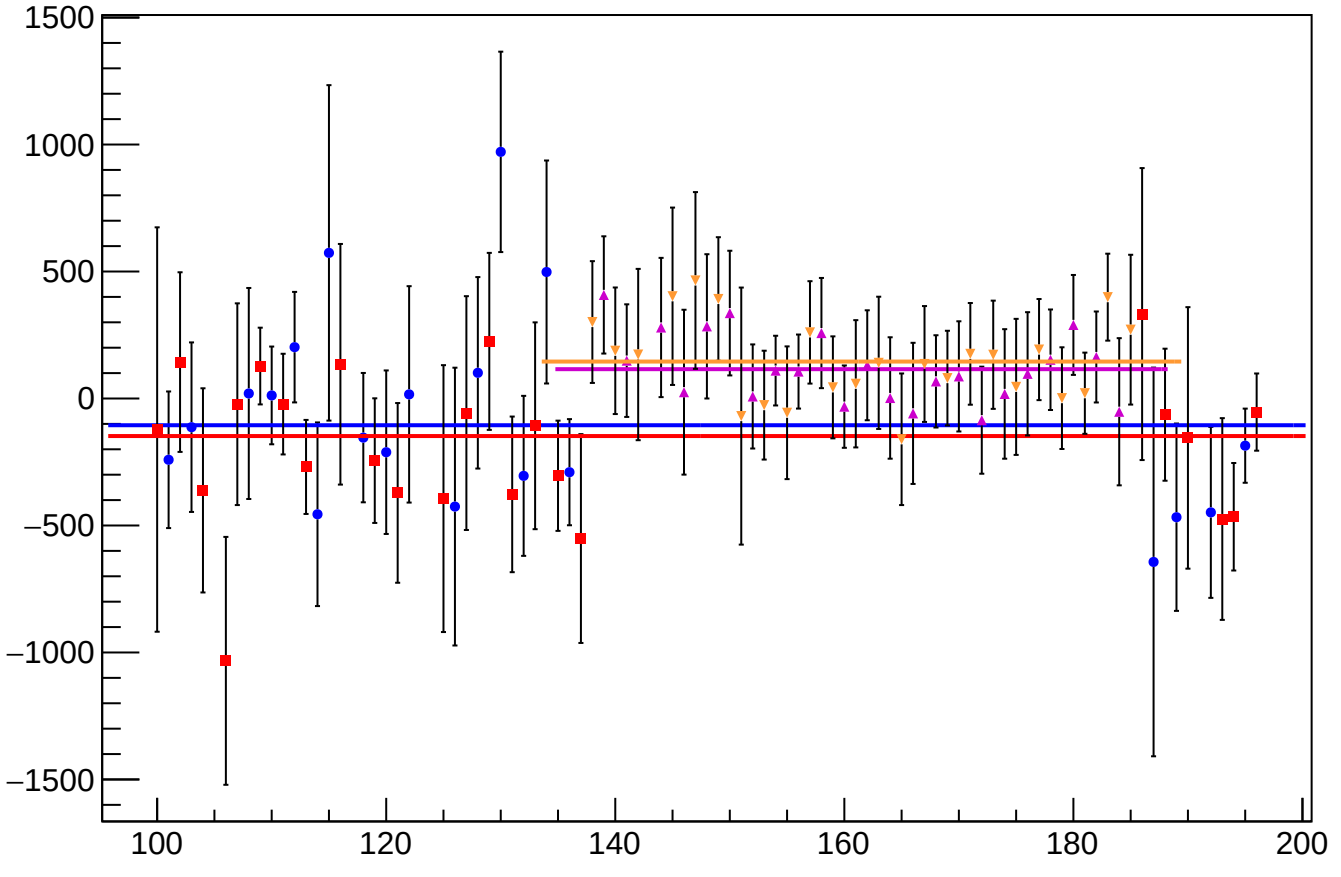
Left: 63.939+/-0.008 $\chi^2$/NDF: 3277377.5/46

Right: 63.496+/-0.010 $\chi^2$/NDF: 4116827.9/43

In: 62.848+/-0.009 $\chi^2$/NDF:3223427.0/42

Out: 64.716+/-0.009 $\chi^2$/NDF:4149371.6/47

All: 63.782+/-0.006 $\chi^2$/NDF: 7395368.3/90




Right In: -105.242+/-64.952 $\chi^2$/NDF: 18.9/19

Left Out: 145.476+/-46.889 $\chi^2$/NDF:10.2/23

Right Out: -147.837+/-57.000 $\chi^2$/NDF: 17.0/23

Left In: 115.487+/-43.568 $\chi^2$/NDF:7.8/22

Left: 129.382+/-31.917 $\chi^2$/NDF: 18.2/46

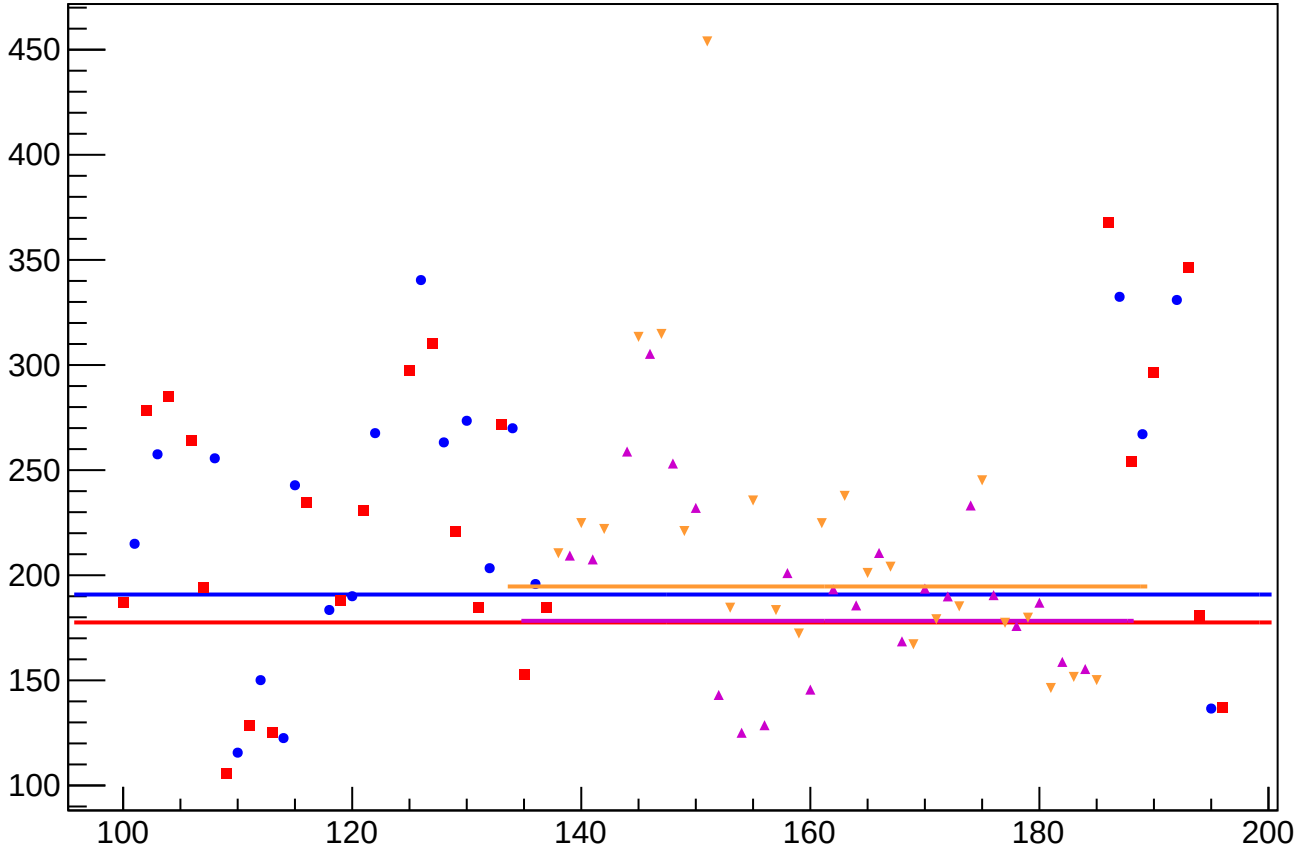
Right: -129.305+/-42.842 $\chi^2$/NDF: 36.1/43

In: 46.991+/-36.182 $\chi^2$/NDF:34.6/42

Out: 27.100+/-36.211 $\chi^2$/NDF:43.0/47

All: 37.053+/-25.595 $\chi^2$/NDF: 77.8/90

# asym_bcm_an_us_an_ds_avg_rms vs Slug, Sign Corrected




Right In: 190.831+/-0.046 $\chi^2$/NDF: 1827774.6/19

Left Out: 194.659+/-0.033 $\chi^2$/NDF:1753119.9/23

Right Out: 177.549+/-0.040 $\chi^2$/NDF: 2623547.1/23

Left In: 178.318+/-0.031 $\chi^2$/NDF:1678336.4/22

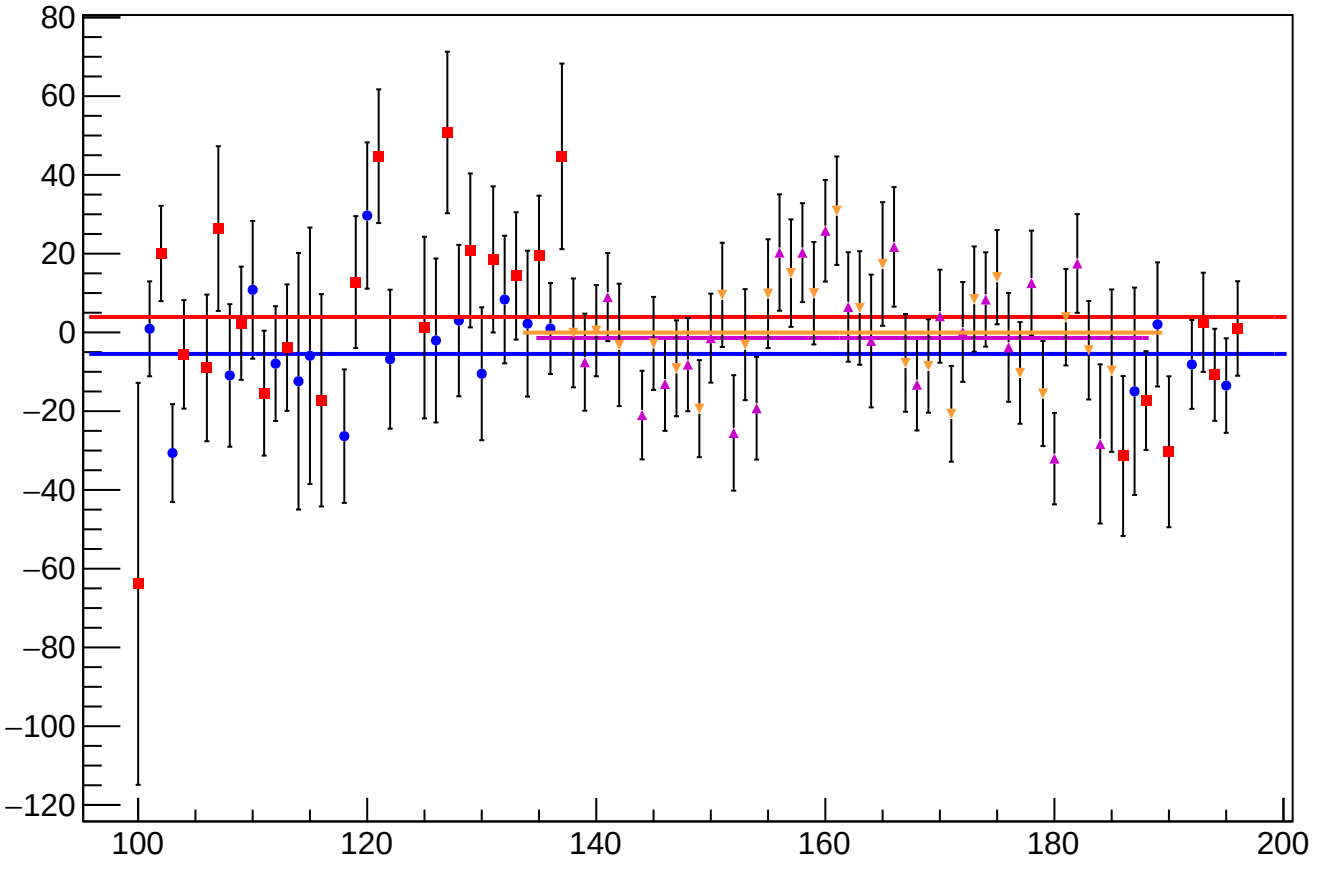
Left: 185.889+/-0.023 $\chi^2$/NDF: 3561822.0/46

Right: 183.328+/-0.030 $\chi^2$/NDF: 4498572.5/43

In: 182.201+/-0.026 $\chi^2$/NDF:3557308.7/42

Out: 187.754+/-0.026 $\chi^2$/NDF:4484152.5/47

All: 184.975+/-0.018 $\chi^2$/NDF: 8064993.4/90




Right In: -5.467+/-3.561 $\chi^2$/NDF: 12.9/19

Left Out: -0.047+/-2.685 $\chi^2$/NDF:20.5/23

Right Out: 3.922+/-3.324 $\chi^2$/NDF: 35.8/23

Left In: -1.407+/-2.674 $\chi^2$/NDF:36.3/22

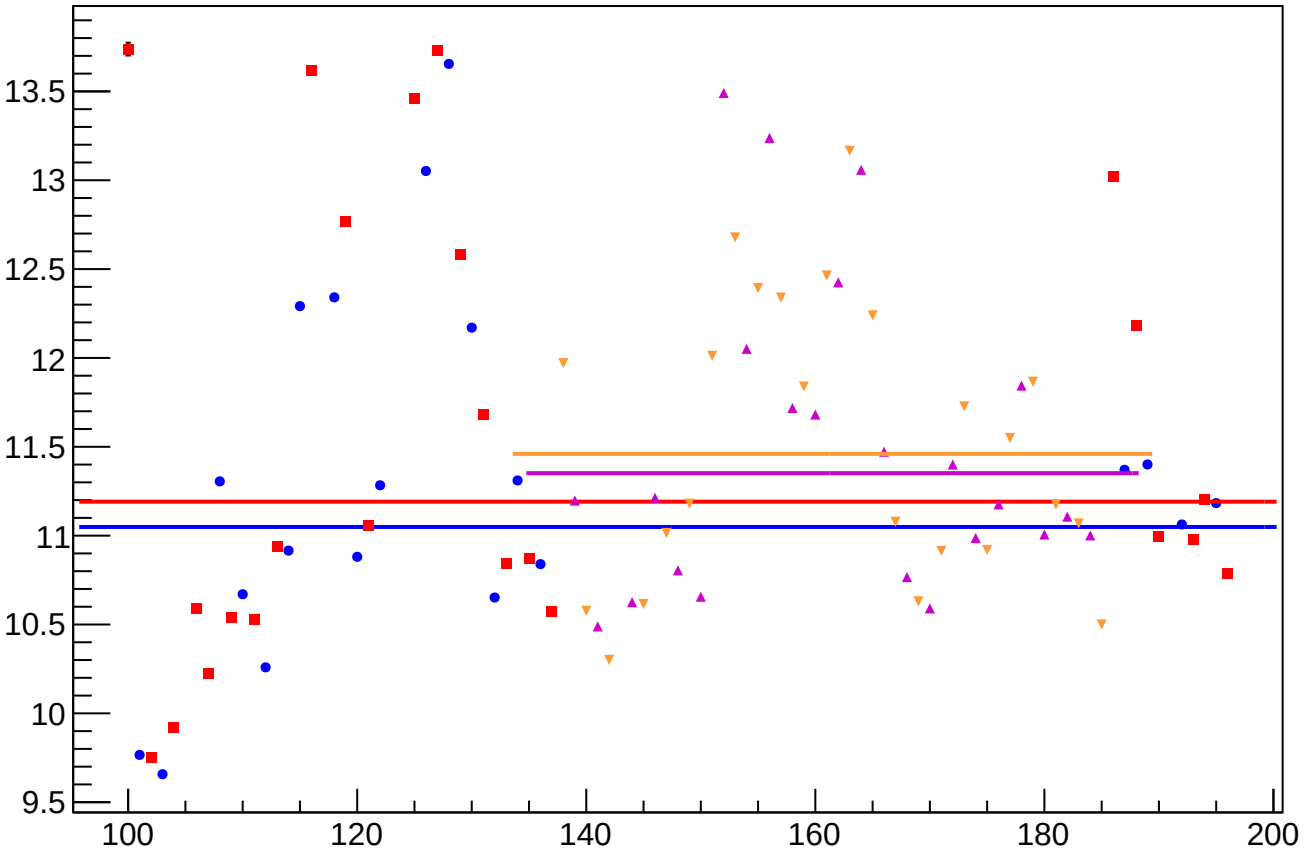
Left: -0.729+/-1.895 $\chi^2$/NDF: 56.9/46

Right: -0.450+/-2.430 $\chi^2$/NDF: 52.5/43

In: -2.871+/-2.138 $\chi^2$/NDF:50.1/42

Out: 1.521+/-2.089 $\chi^2$/NDF:57.2/47

All: -0.624+/-1.494 $\chi^2$/NDF: 109.4/90




Right In: 11.049+/-0.003 $\chi^2$/NDF: 137997.7/19

Left Out: 11.460+/-0.002 $\chi^2$/NDF:150430.0/23

Right Out: 11.191+/-0.002 $\chi^2$/NDF: 195366.5/23

Left In: 11.352+/-0.002 $\chi^2$/NDF:170563.6/22

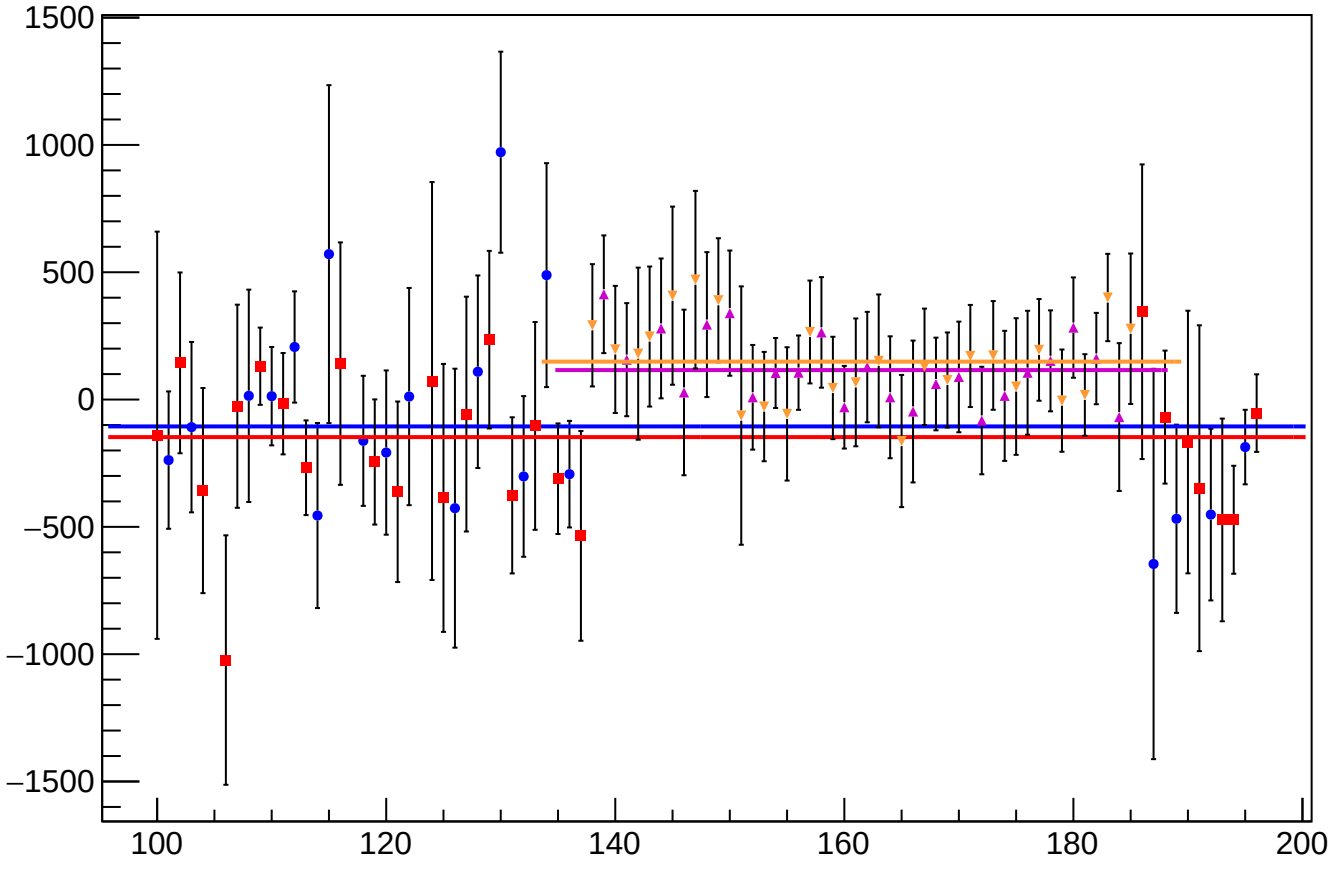
Left: 11.406+/-0.001 $\chi^2$/NDF: 322630.2/46

Right: 11.125+/-0.002 $\chi^2$/NDF: 335072.2/43

In: 11.243+/-0.002 $\chi^2$/NDF:317810.9/42

Out: 11.354+/-0.001 $\chi^2$/NDF:353716.6/47

All: 11.300+/-0.001 $\chi^2$/NDF: 674305.9/90




Right In: -105.561+/-65.129 $\chi^2$/NDF: 18.9/19

Left Out: 148.905+/-46.306 $\chi^2$/NDF:10.5/24

Right Out: -147.443+/-56.792 $\chi^2$/NDF: 17.2/25

Left In: 115.709+/-43.641 $\chi^2$/NDF:7.8/22

Left: 131.325+/-31.759 $\chi^2$/NDF: 18.6/47

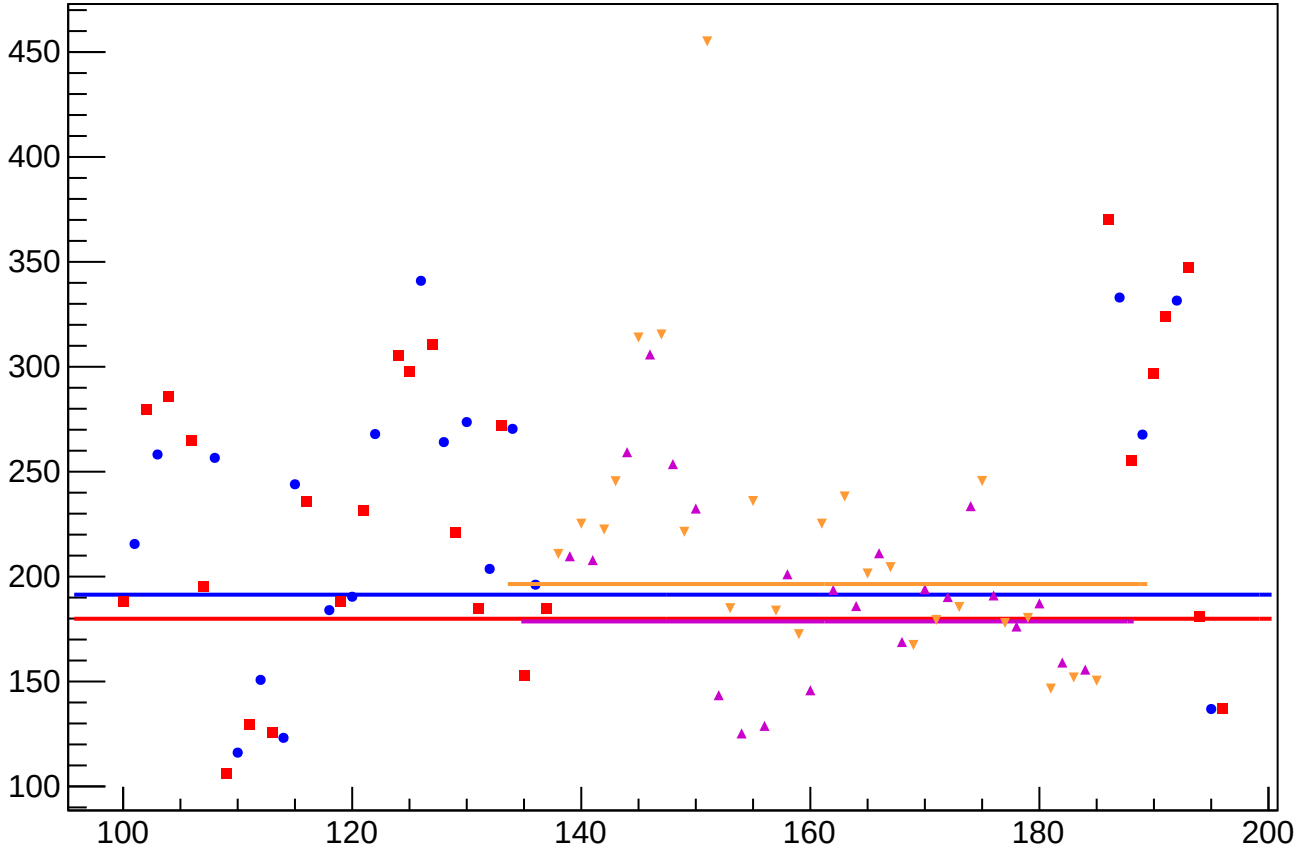
Right: -129.353+/-42.804 $\chi^2$/NDF: 36.3/45

In: 47.146+/-36.254 $\chi^2$/NDF:34.6/42

Out: 30.562+/-35.889 $\chi^2$/NDF:44.0/50

All: 38.770+/-25.505 $\chi^2$/NDF: 78.8/93

asym_bcm_an_us_an_ds3_avg_rms vs Slug, Sign Corrected




Right In: 191.385+/-0.046 $\chi^2$/NDF: 1821625.2/19

Left Out: 196.454+/-0.033 $\chi^2$/NDF:1818746.1/24

Right Out: 179.912+/-0.040 $\chi^2$/NDF: 2774585.0/25

Left In: 178.614+/-0.031 $\chi^2$/NDF:1678859.8/22

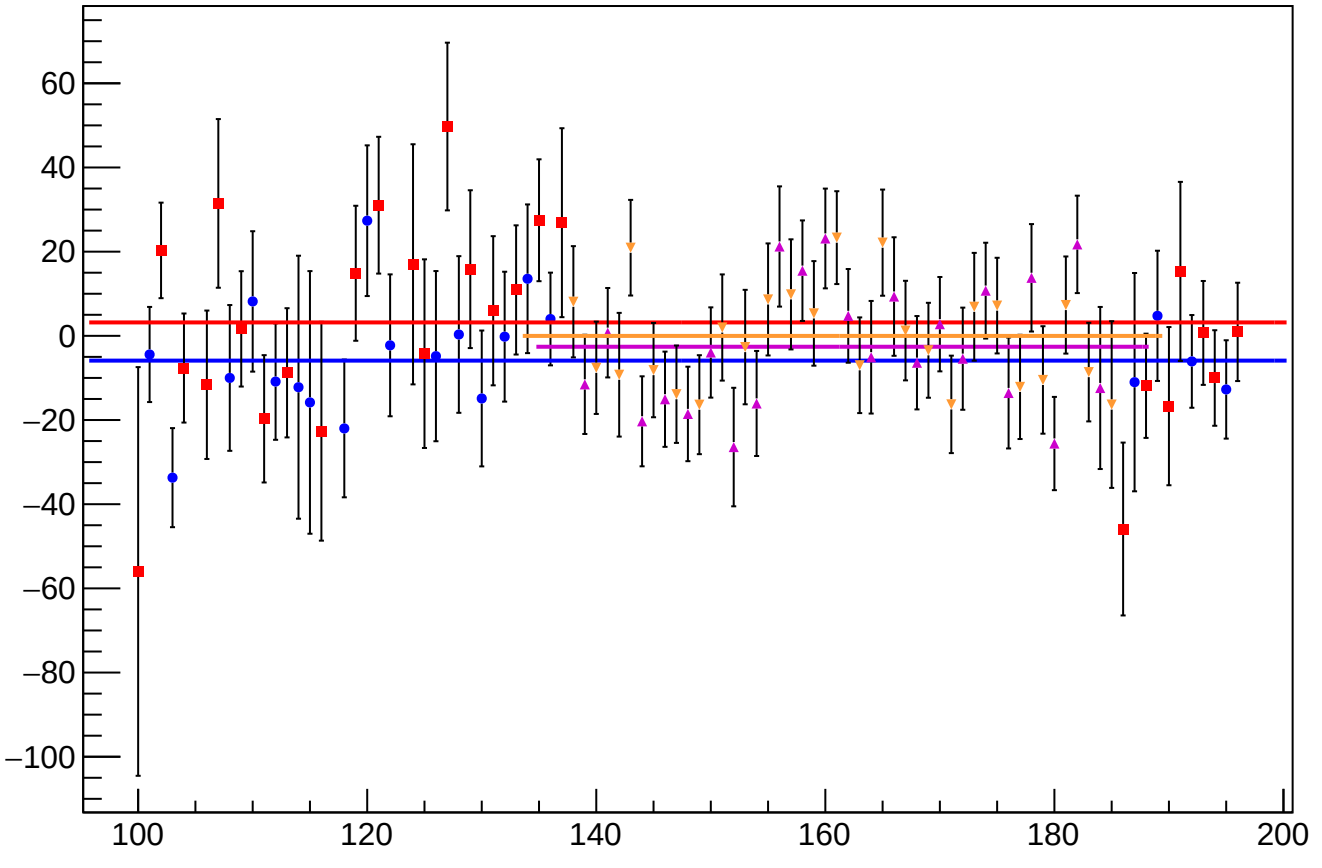
Left: 187.006+/-0.022 $\chi^2$/NDF: 3654827.6/47

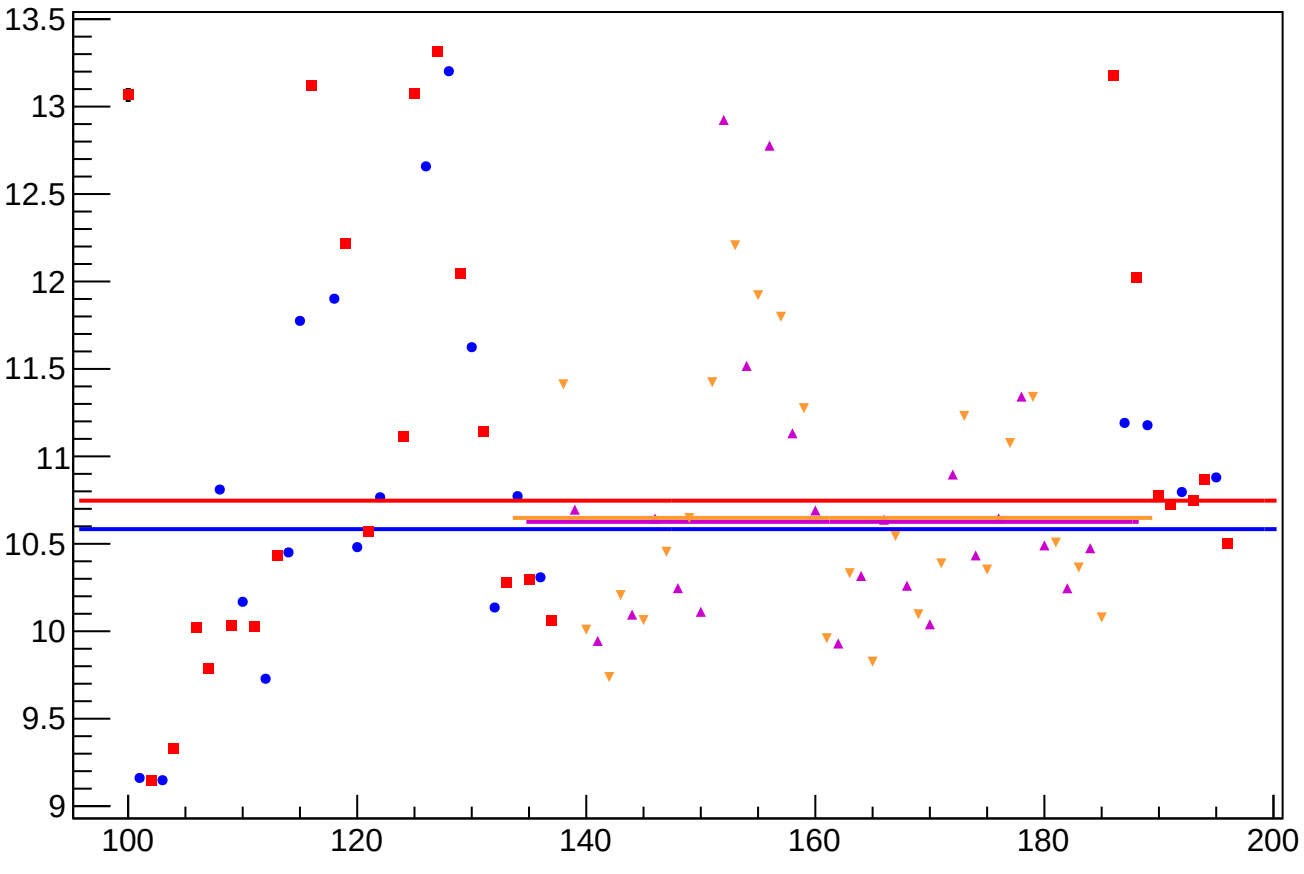
Right: 184.868+/-0.030 $\chi^2$/NDF: 4631467.0/45

In: 182.571+/-0.026 $\chi^2$/NDF:3553559.4/42

Out: 189.848+/-0.025 $\chi^2$/NDF:4695255.5/50

All: 186.247+/-0.018 $\chi^2$/NDF: 8289513.1/93


asym_bcm_an_us_an_ds3_dd_mean vs Slug, Sign Corrected
60
40
20
0
−20
−40
−60
−80
−100
100
120
140
160
180
200
Right In: -5.887+/-3.416 χ²/NDF: 14.5/19
Left Out: -0.018+/-2.445 χ²/NDF:23.7/24
Right Out: 3.186+/-3.142 χ²/NDF: 35.1/25
Left In: -2.591+/-2.506 χ²/NDF:34.8/22
Left: -1.272+/-1.750 χ²/NDF: 59.1/47
Right: -0.971+/-2.313 χ²/NDF: 53.4/45
In: -3.744+/-2.021 χ²/NDF:49.9/42
Out: 1.191+/-1.929 χ²/NDF:59.4/50
All: -1.163+/-1.395 χ²/NDF: 112.5/93




Right In: 10.584+/-0.002 $\chi^2$/NDF: 165091.9/19

Left Out: 10.648+/-0.002 $\chi^2$/NDF:143535.9/24

Right Out: 10.747+/-0.002 $\chi^2$/NDF: 242619.1/25

Left In: 10.626+/-0.002 $\chi^2$/NDF:159543.1/22

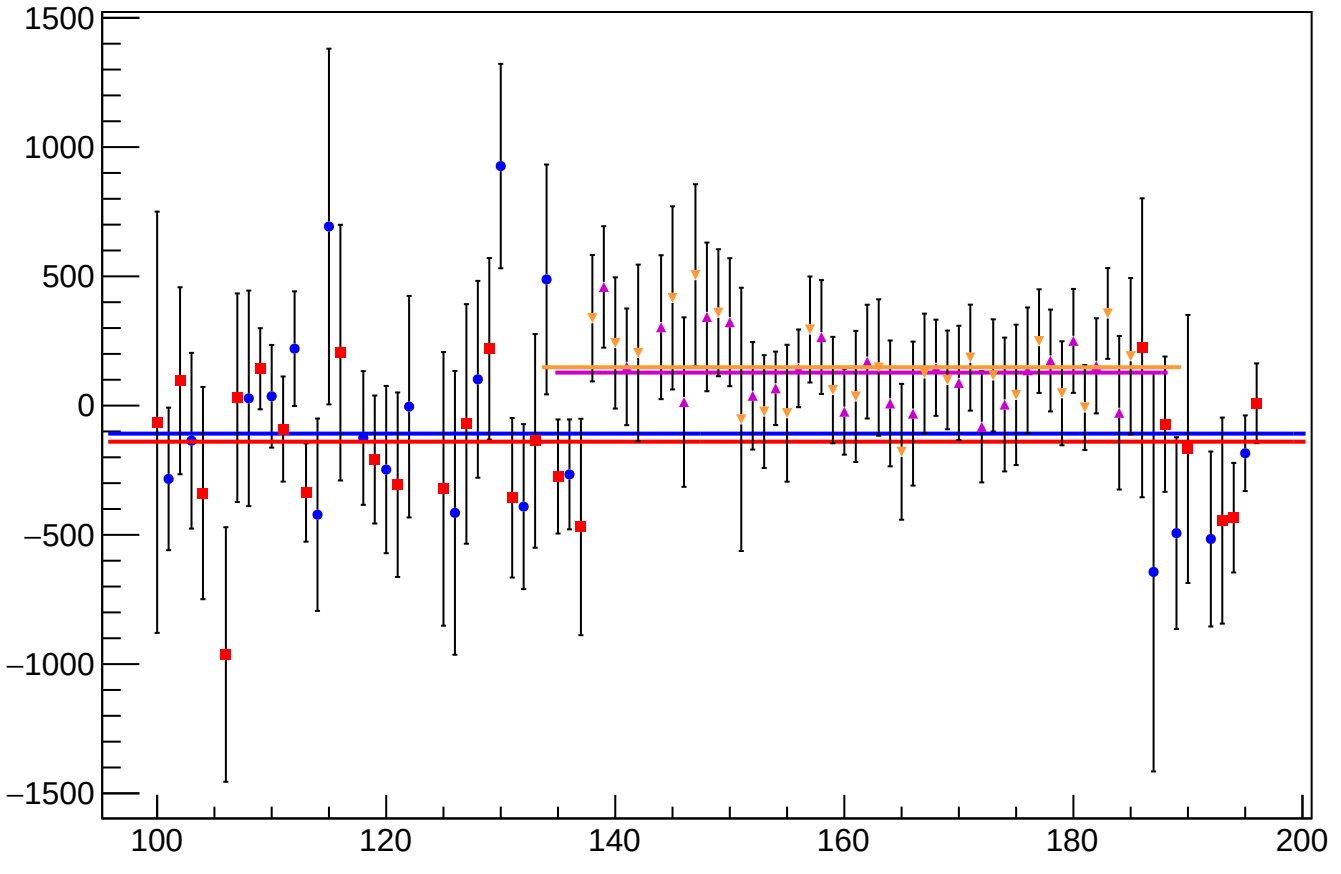
Left: 10.637+/-0.001 $\chi^2$/NDF: 303162.3/47

Right: 10.672+/-0.002 $\chi^2$/NDF: 410172.7/45

In: 10.611+/-0.001 $\chi^2$/NDF:324829.5/42

Out: 10.685+/-0.001 $\chi^2$/NDF:387378.8/50

All: 10.650+/-0.001 $\chi^2$/NDF: 713624.2/93




Right In: -108.383+/-65.866 $\chi^2$/NDF: 19.4/19

Left Out: 148.441+/-47.720 $\chi^2$/NDF:9.9/23

Right Out: -139.652+/-58.028 $\chi^2$/NDF: 15.4/23

Left In: 127.710+/-44.426 $\chi^2$/NDF:7.8/22

Left: 137.335+/-32.516 $\chi^2$/NDF: 17.8/46

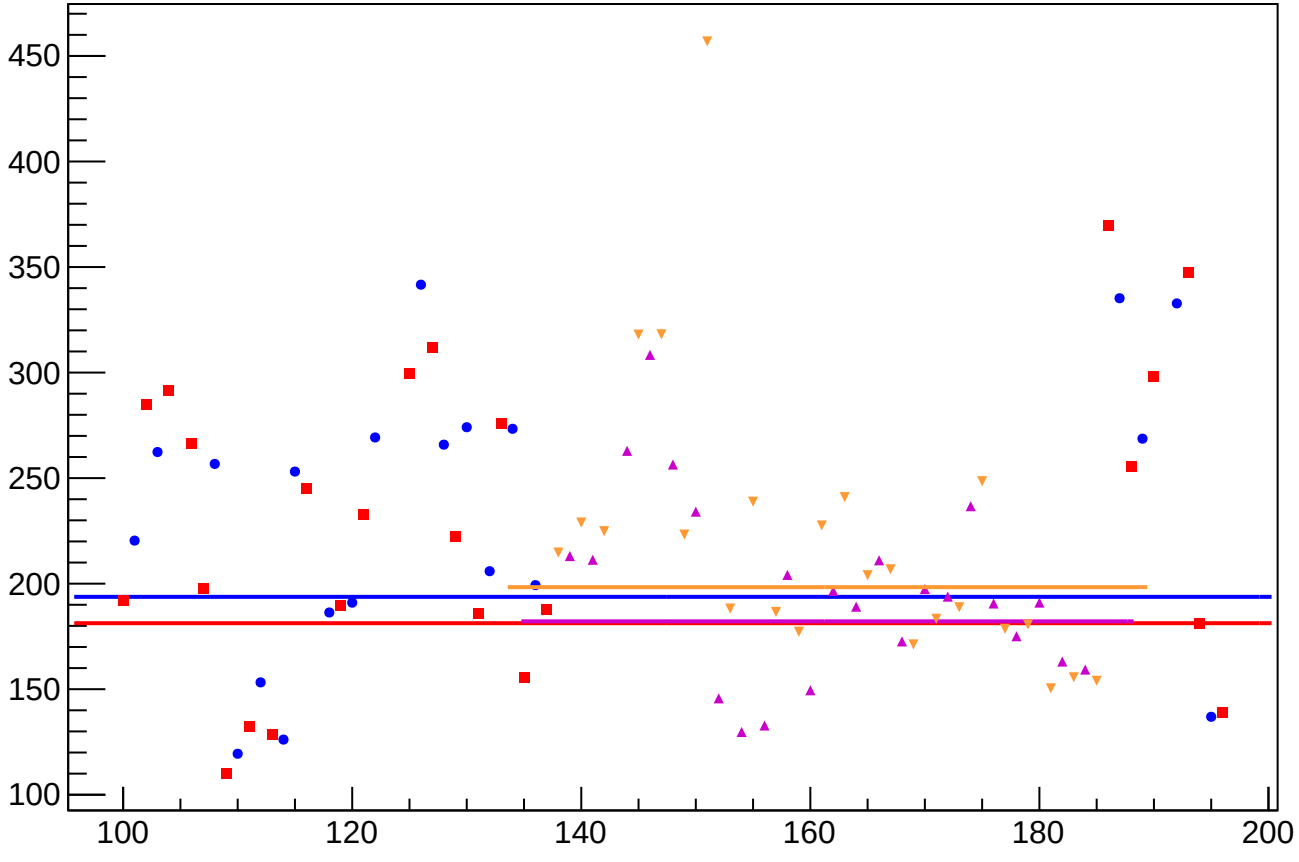
Right: -125.988+/-43.541 $\chi^2$/NDF: 34.9/43

In: 53.886+/-36.831 $\chi^2$/NDF:36.1/42

Out: 32.211+/-36.858 $\chi^2$/NDF:39.9/47

All: 43.057+/-26.053 $\chi^2$/NDF: 76.2/90

# asym_bcm_dg_us_dg_ds_avg_rms vs Slug, Sign Corrected




Right In: 193.753+/-0.047 $\chi^2$/NDF: 1793281.5/19

Left Out: 198.351+/-0.034 $\chi^2$/NDF:1697058.2/23

Right Out: 181.274+/-0.041 $\chi^2$/NDF: 2527119.4/23

Left In: 182.150+/-0.031 $\chi^2$/NDF:1584358.1/22

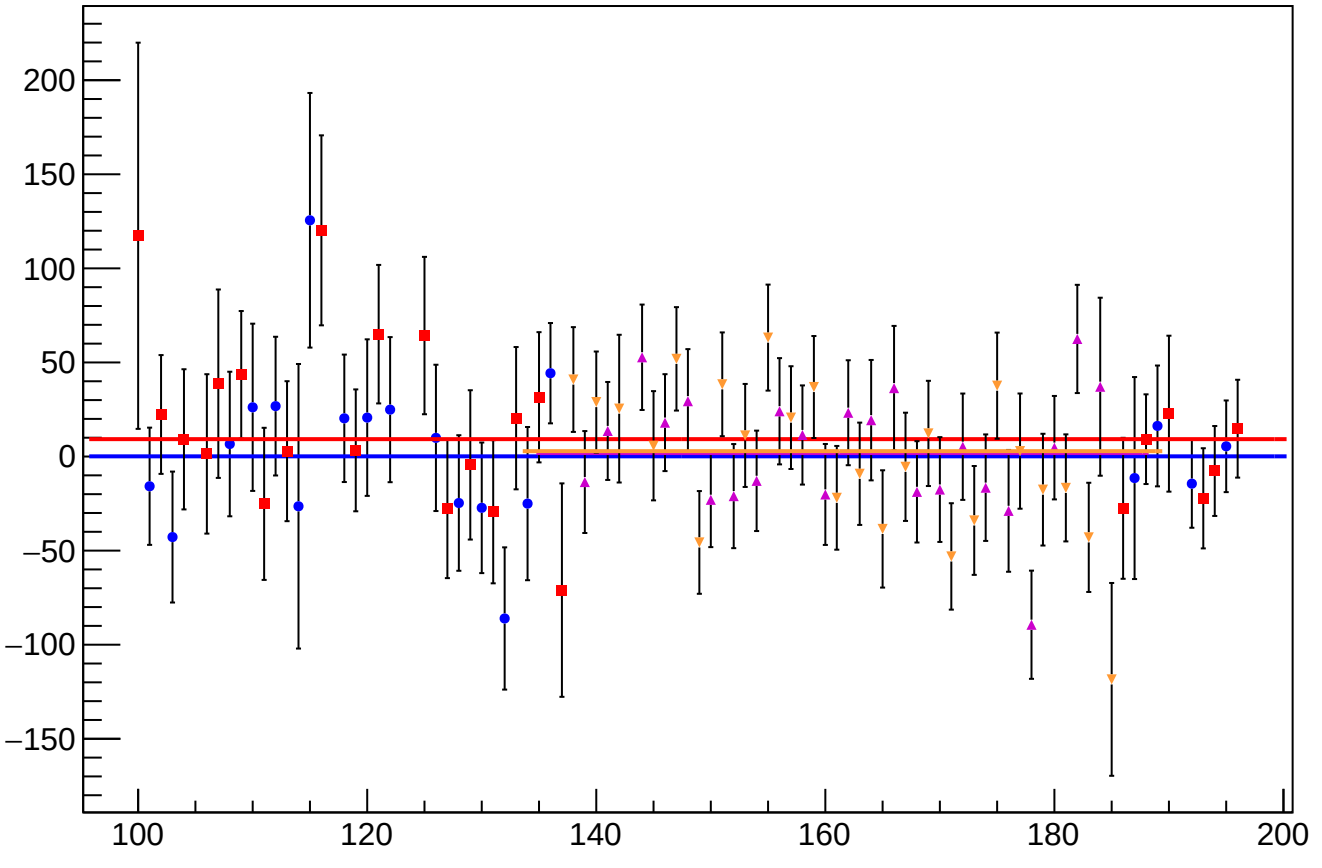
Left: 189.672+/-0.023 $\chi^2$/NDF: 3404908.8/46

Right: 186.727+/-0.031 $\chi^2$/NDF: 4360819.7/43

In: 185.778+/-0.026 $\chi^2$/NDF:3420294.7/42

Out: 191.461+/-0.026 $\chi^2$/NDF:4327515.3/47

All: 188.618+/-0.018 $\chi^2$/NDF: 7771603.7/90




Right In: 0.103+/-7.883 $\chi^2$/NDF: 17.5/19

Left Out: 2.851+/-5.904 $\chi^2$/NDF:36.9/23

Right Out: 9.243+/-7.209 $\chi^2$/NDF: 20.0/23

Left In: 1.850+/-5.893 $\chi^2$/NDF:28.1/22

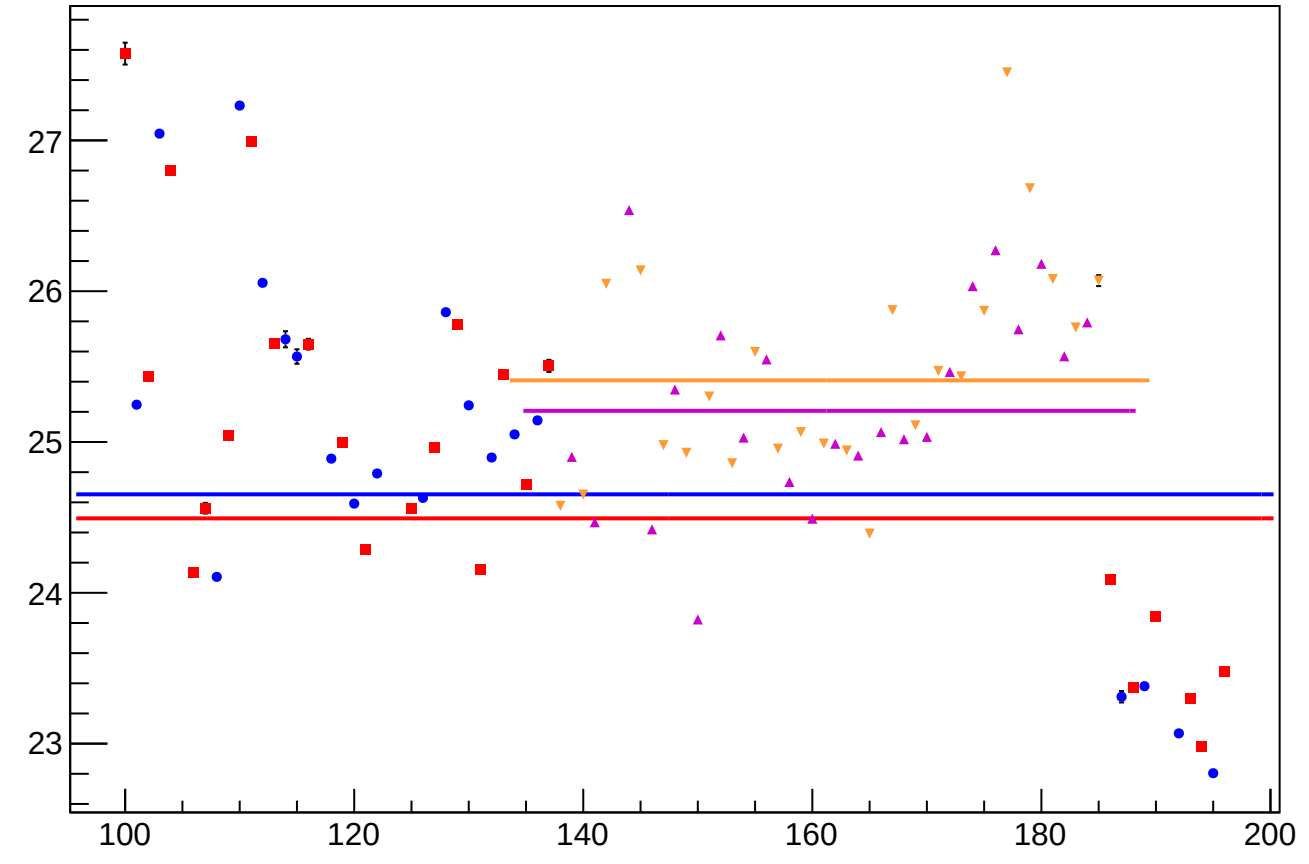
Left: 2.349+/-4.171 $\chi^2$/NDF: 65.0/46

Right: 5.080+/-5.320 $\chi^2$/NDF: 38.2/43

In: 1.223+/-4.720 $\chi^2$/NDF:45.6/42

Out: 5.417+/-4.568 $\chi^2$/NDF:57.4/47

All: 3.389+/-3.282 $\chi^2$/NDF: 103.4/90




Right In: 24.653+/-0.006 $\chi^2$/NDF: 49927.3/19

Left Out: 25.409+/-0.004 $\chi^2$/NDF:26863.6/23

Right Out: 24.494+/-0.005 $\chi^2$/NDF: 47928.2/23

Left In: 25.207+/-0.004 $\chi^2$/NDF:25827.4/22

Left: 25.308+/-0.003 $\chi^2$/NDF: 53862.4/46

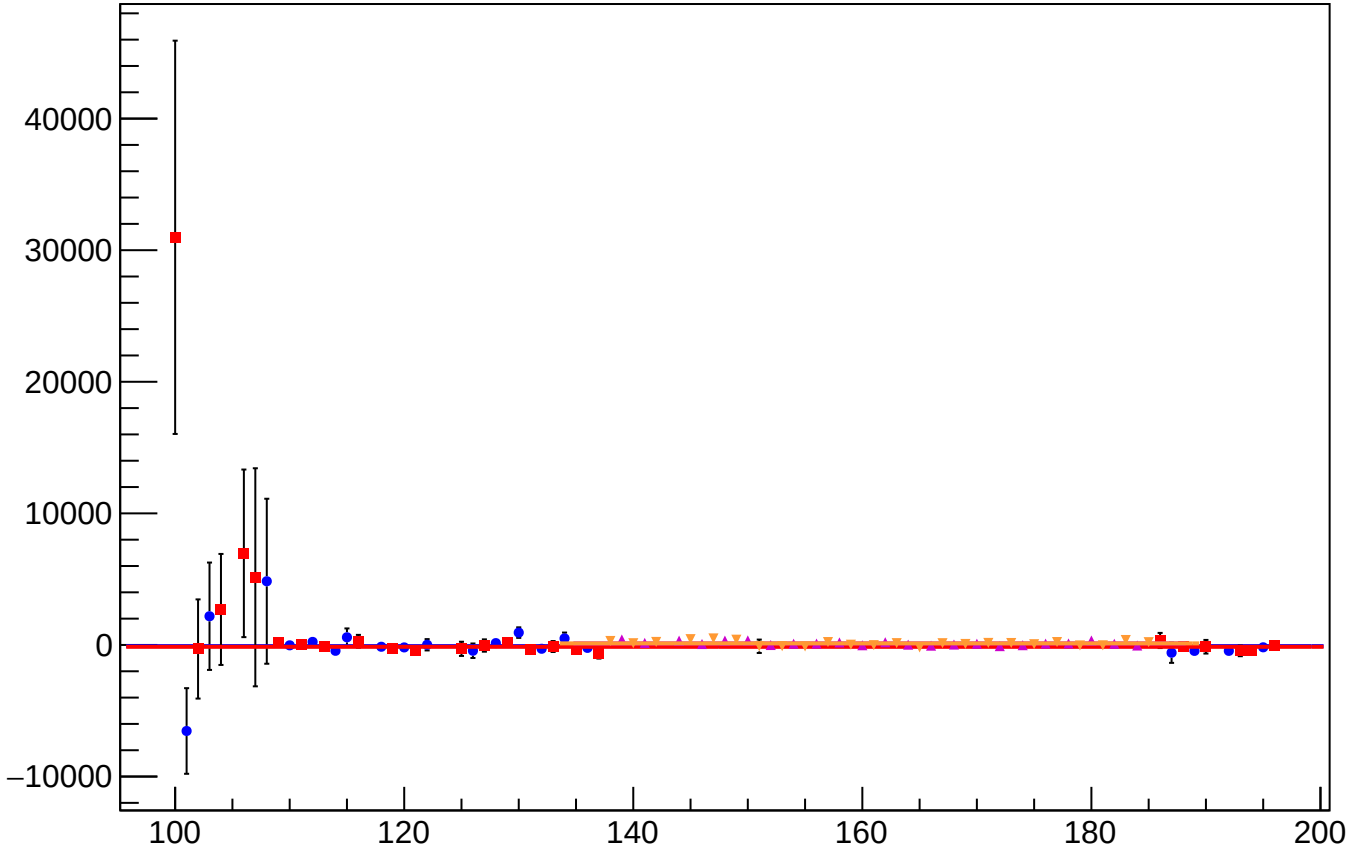
Right: 24.566+/-0.004 $\chi^2$/NDF: 98300.7/43

In: 25.008+/-0.003 $\chi^2$/NDF:82085.4/42

Out: 25.041+/-0.003 $\chi^2$/NDF:94077.2/47

All: 25.025+/-0.002 $\chi^2$/NDF: 176213.2/90

asym_bcm_cav4cQ_an_ds_avg_mean vs Slug, Sign Corrected




Right In: -88.106+/-70.470 $\chi^2$/NDF: 22.0/19

Left Out: 120.221+/-47.440 $\chi^2$/NDF:11.9/23

Right Out: -139.674+/-63.137 $\chi^2$/NDF: 17.9/23

Left In: 116.243+/-44.786 $\chi^2$/NDF:8.4/22

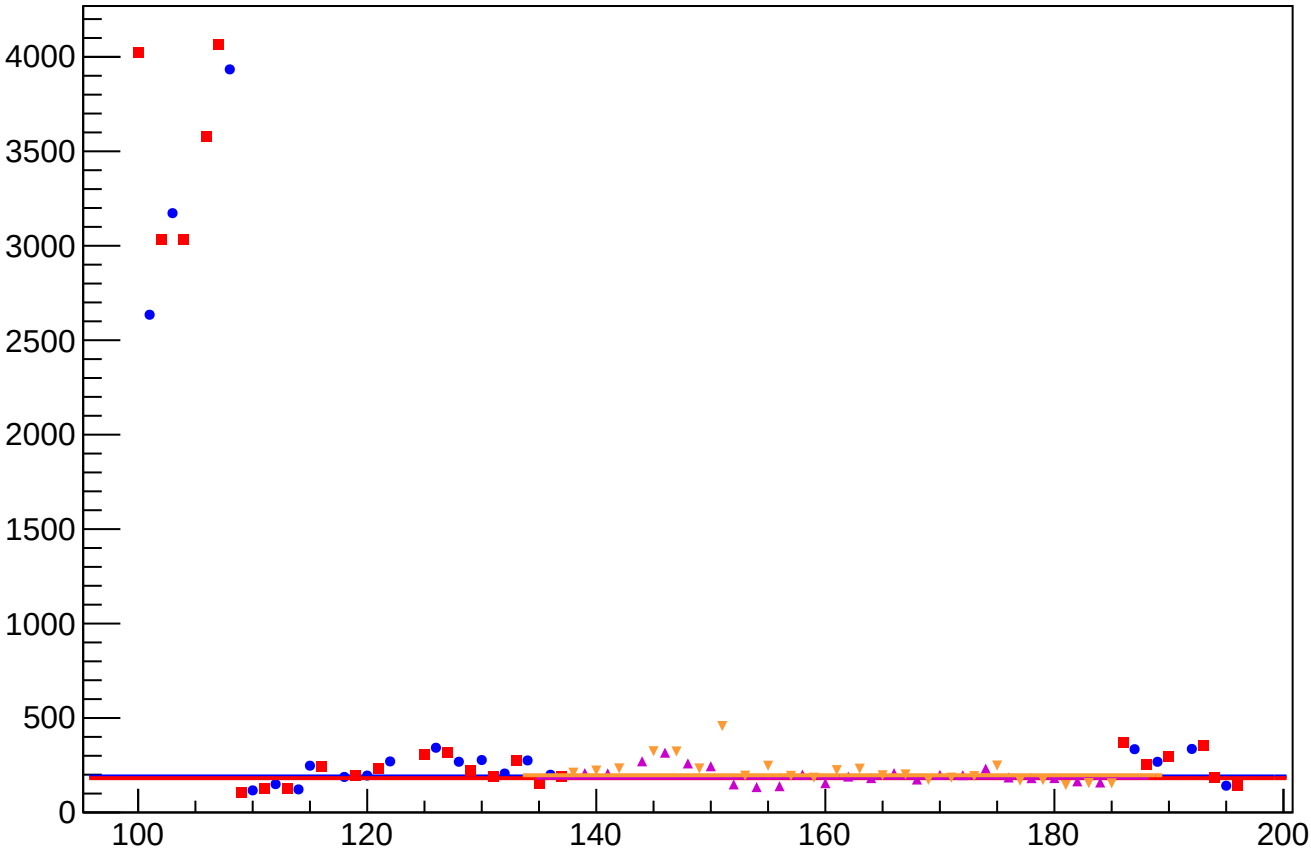
Left: 118.118+/-32.566 $\chi^2$/NDF: 20.4/46

Right: -116.712+/-47.024 $\chi^2$/NDF: 40.2/43

In: 57.452+/-37.798 $\chi^2$/NDF:36.4/42

Out: 26.437+/-37.927 $\chi^2$/NDF:40.7/47

All: 41.997+/-26.773 $\chi^2$/NDF: 77.4/90




Right In: 190.524+/-0.050 $\chi^2$/NDF: 4563676.2/19

Left Out: 196.935+/-0.034 $\chi^2$/NDF:1809266.5/23

Right Out: 181.493+/-0.045 $\chi^2$/NDF: 5234612.4/23

Left In: 184.051+/-0.032 $\chi^2$/NDF:1445426.0/22

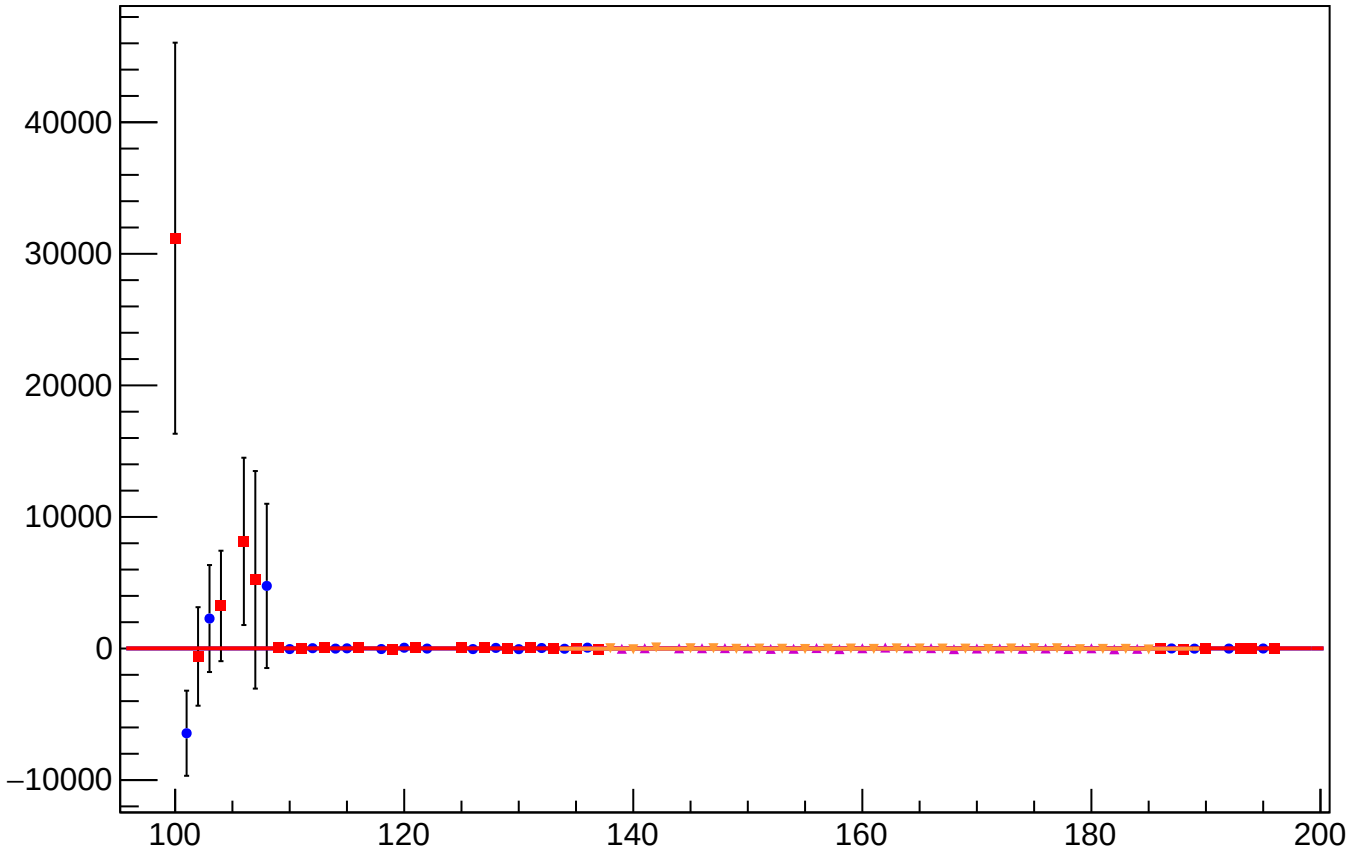
Left: 190.123+/-0.023 $\chi^2$/NDF: 3332695.4/46

Right: 185.514+/-0.033 $\chi^2$/NDF: 9816506.3/43

In: 185.913+/-0.027 $\chi^2$/NDF:6021121.2/42

Out: 191.363+/-0.027 $\chi^2$/NDF:7120342.9/47

All: 188.629+/-0.019 $\chi^2$/NDF: 13162182.1/90




Right In: 3.053+/-9.652 $\chi^2$/NDF: 18.6/19

Left Out: -11.111+/-6.653 $\chi^2$/NDF:17.5/23

Right Out: 13.633+/-9.018 $\chi^2$/NDF: 27.0/23

Left In: 2.576+/-6.732 $\chi^2$/NDF:22.2/22

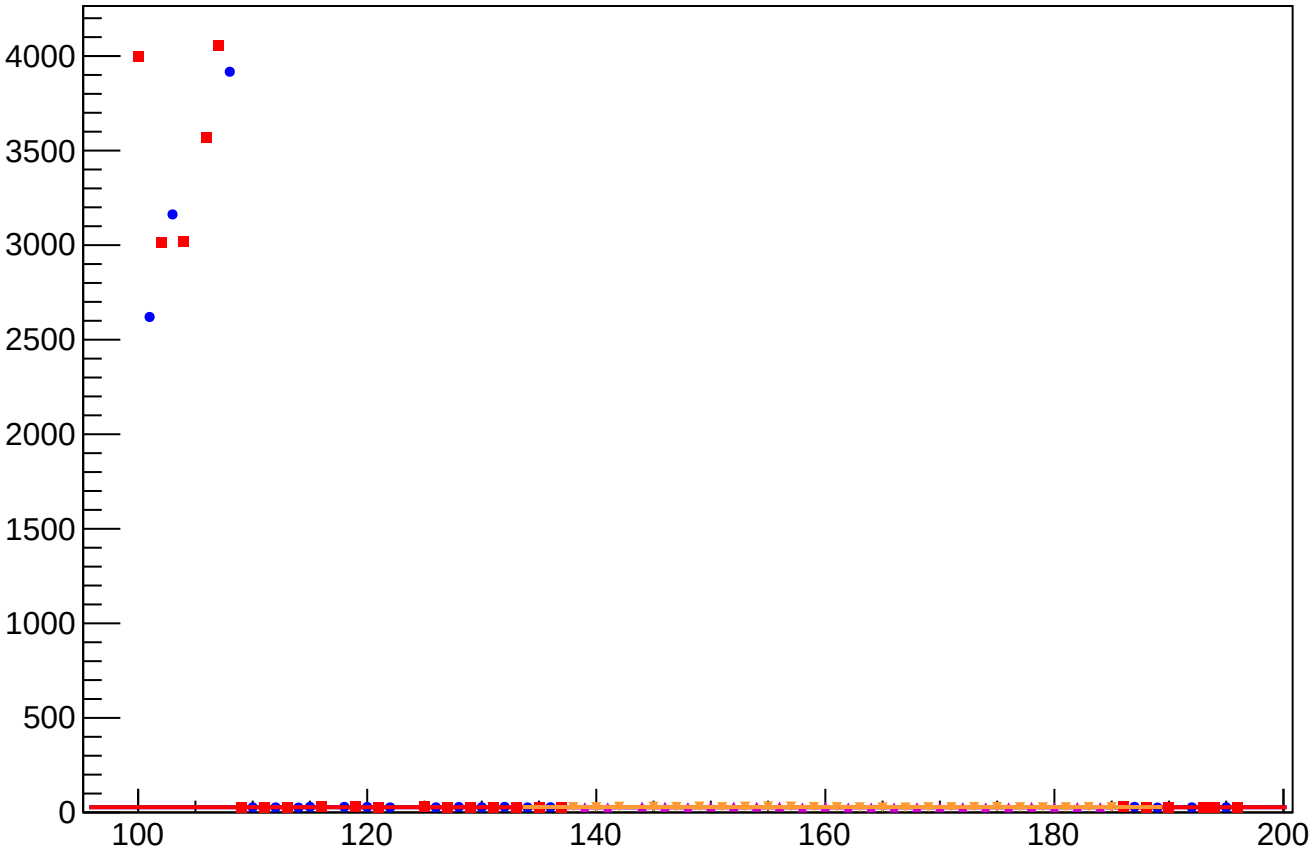
Left: -4.348+/-4.732 $\chi^2$/NDF: 41.8/46

Right: 8.702+/-6.589 $\chi^2$/NDF: 46.3/43

In: 2.732+/-5.522 $\chi^2$/NDF:40.8/42

Out: -2.390+/-5.354 $\chi^2$/NDF:49.4/47

All: 0.092+/-3.844 $\chi^2$/NDF: 90.6/90




Right In: 27.556+/-0.007 $\chi^2$/NDF: 3274766.4/19

Left Out: 28.592+/-0.005 $\chi^2$/NDF:80997.4/23

Right Out: 27.732+/-0.006 $\chi^2$/NDF: 3575982.9/23

Left In: 28.728+/-0.005 $\chi^2$/NDF:127383.0/22

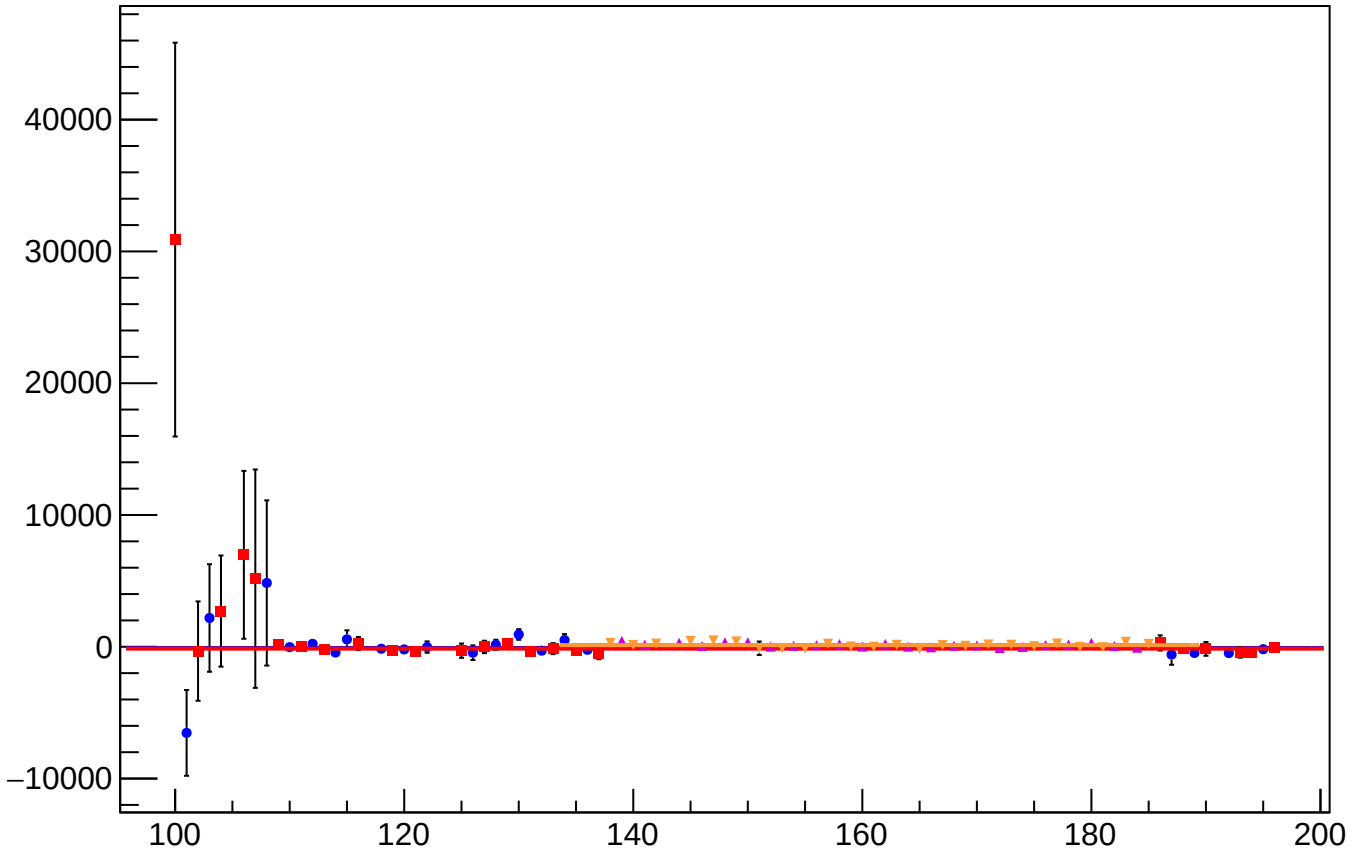
Left: 28.659+/-0.003 $\chi^2$/NDF: 208789.7/46

Right: 27.650+/-0.005 $\chi^2$/NDF: 6851104.1/43

In: 28.344+/-0.004 $\chi^2$/NDF:3421978.2/42

Out: 28.289+/-0.004 $\chi^2$/NDF:3668769.7/47

All: 28.316+/-0.003 $\chi^2$/NDF: 7090850.8/90




Right In: -96.470+/-70.854 $\chi^2$/NDF: 22.0/19

Left Out: 126.373+/-47.852 $\chi^2$/NDF:11.6/23

Right Out: -138.177+/-63.504 $\chi^2$/NDF: 16.6/23

Left In: 122.809+/-45.199 $\chi^2$/NDF:8.0/22

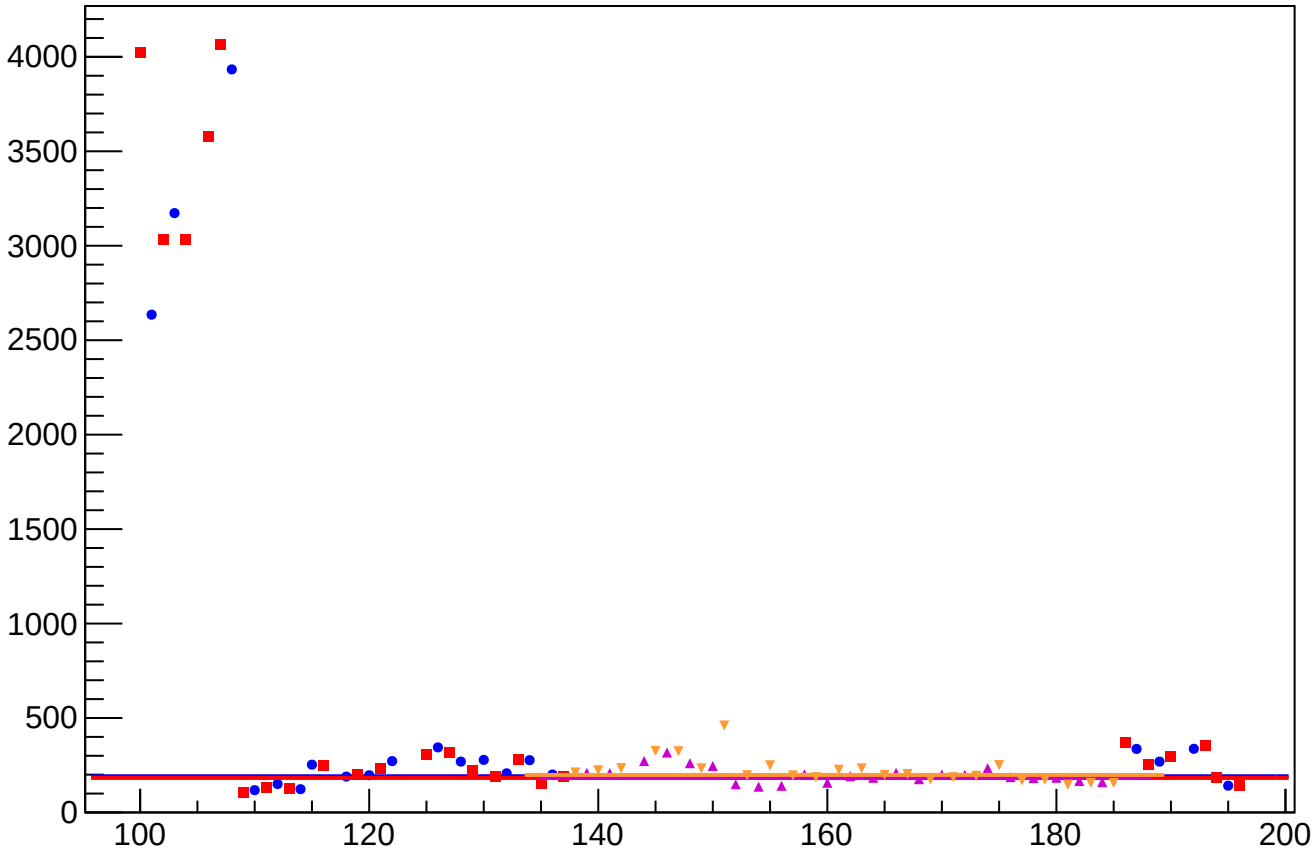
Left: 124.489+/-32.858 $\chi^2$/NDF: 19.6/46

Right: -119.598+/-47.290 $\chi^2$/NDF: 38.8/43

In: 59.385+/-38.106 $\chi^2$/NDF:36.8/42

Out: 30.562+/-38.217 $\chi^2$/NDF:39.2/47

All: 45.016+/-26.984 $\chi^2$/NDF: 76.3/90




Right In: 191.618+/-0.050 $\chi^2$/NDF: 4555989.6/19

Left Out: 198.736+/-0.034 $\chi^2$/NDF:1786406.6/23

Right Out: 182.670+/-0.045 $\chi^2$/NDF: 5215939.9/23

Left In: 185.871+/-0.032 $\chi^2$/NDF:1405525.2/22

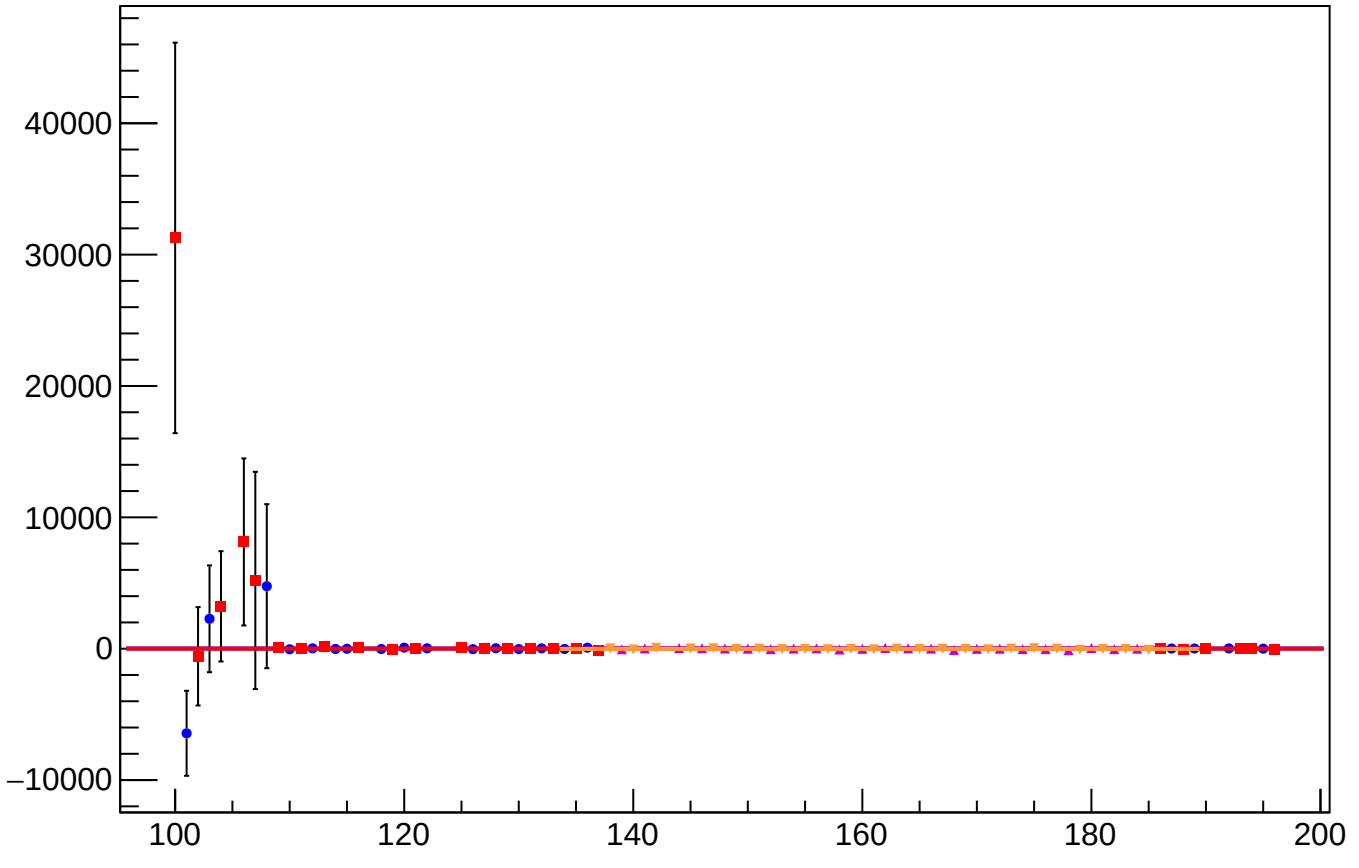
Left: 191.937+/-0.023 $\chi^2$/NDF: 3268326.7/46

Right: 186.656+/-0.033 $\chi^2$/NDF: 9789621.2/43

In: 187.534+/-0.027 $\chi^2$/NDF:5970867.0/42

Out: 192.917+/-0.027 $\chi^2$/NDF:7083999.8/47

All: 190.218+/-0.019 $\chi^2$/NDF: 13074769.7/90




Right In: 13.738+/-10.688 $\chi^2$/NDF: 15.6/19

Left Out: -18.187+/-7.260 $\chi^2$/NDF:20.3/23

Right Out: 6.867+/-9.960 $\chi^2$/NDF: 33.8/23

Left In: -2.709+/-7.348 $\chi^2$/NDF:35.5/22

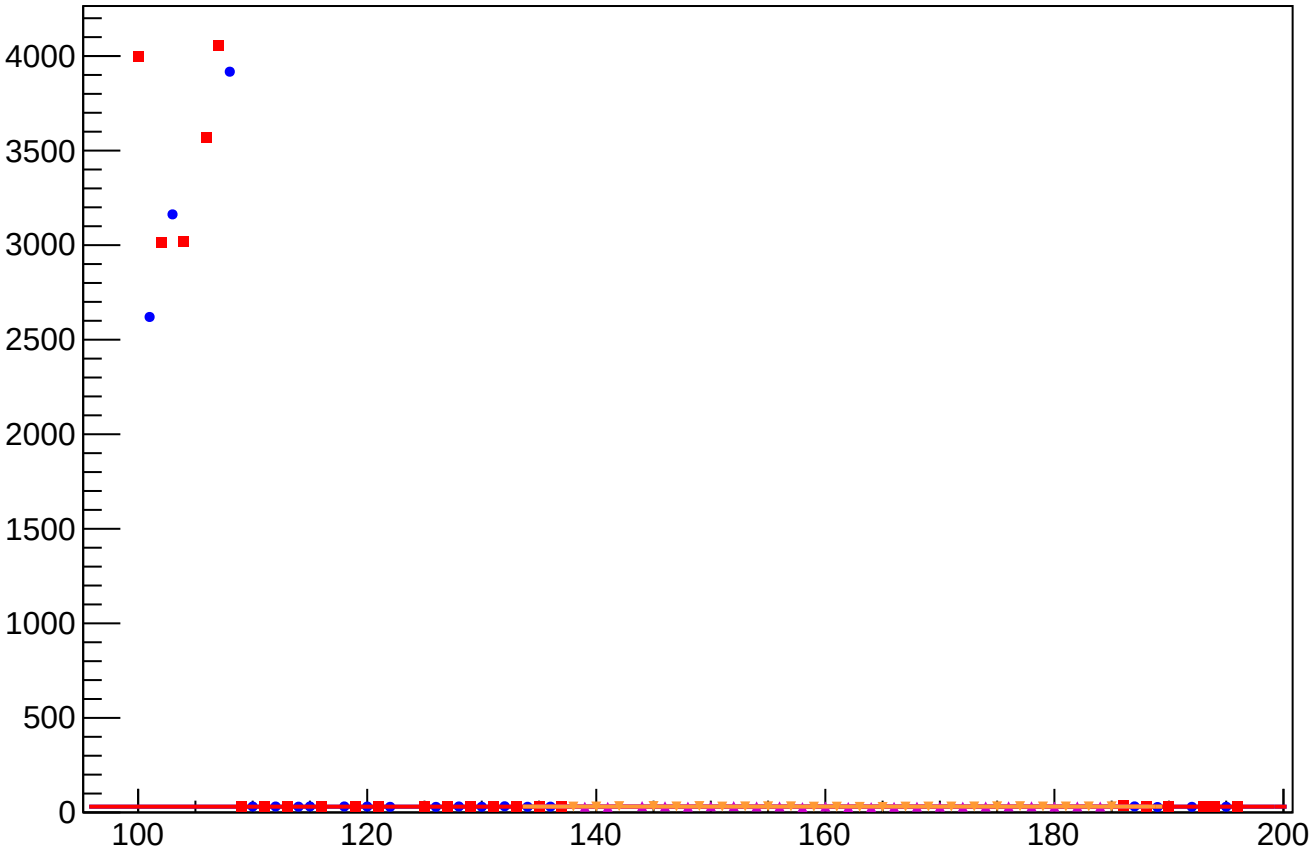
Left: -10.542+/-5.164 $\chi^2$/NDF: 58.1/46

Right: 10.060+/-7.286 $\chi^2$/NDF: 49.7/43

In: 2.570+/-6.055 $\chi^2$/NDF:52.8/42

Out: -9.495+/-5.867 $\chi^2$/NDF:58.3/47

All: -3.653+/-4.213 $\chi^2$/NDF: 113.1/90




Right In: 30.536+/-0.008 $\chi^2$/NDF: 3261832.2/19

Left Out: 31.221+/-0.005 $\chi^2$/NDF:47423.0/23

Right Out: 30.657+/-0.007 $\chi^2$/NDF: 3552276.7/23

Left In: 31.379+/-0.005 $\chi^2$/NDF:85229.7/22

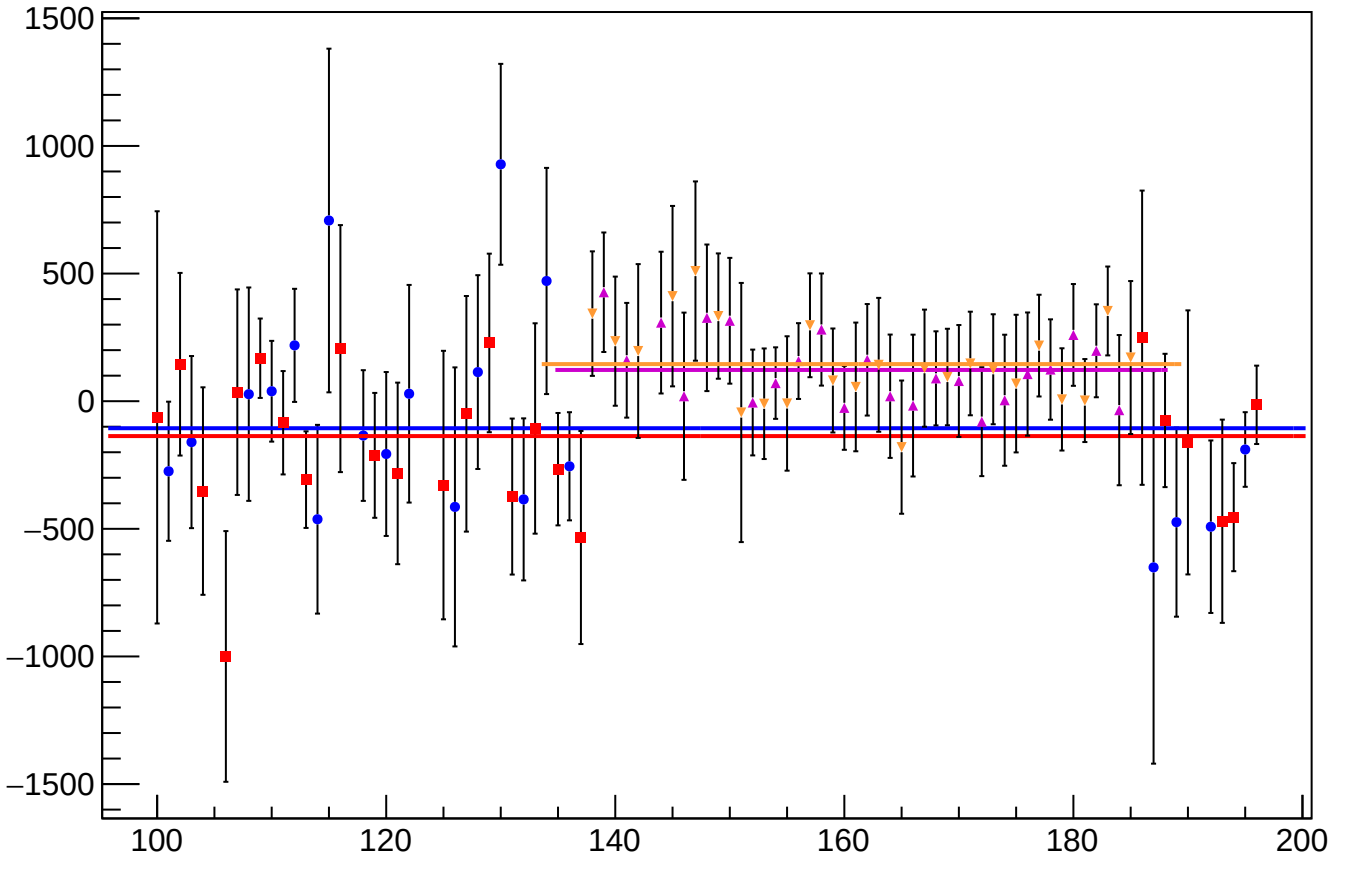
Left: 31.299+/-0.004 $\chi^2$/NDF: 133120.3/46

Right: 30.601+/-0.005 $\chi^2$/NDF: 6814245.6/43

In: 31.109+/-0.004 $\chi^2$/NDF:3355512.2/42

Out: 31.026+/-0.004 $\chi^2$/NDF:3603892.5/47

All: 31.066+/-0.003 $\chi^2$/NDF: 6959599.2/90




Right In: -105.890+/-65.568 $\chi^2$/NDF: 19.4/19

Left Out: 145.314+/-47.390 $\chi^2$/NDF:9.4/23

Right Out: -136.683+/-57.718 $\chi^2$/NDF: 16.9/23

Left In: 122.376+/-44.081 $\chi^2$/NDF:7.9/22

Left: 133.016+/-32.277 $\chi^2$/NDF: 17.4/46

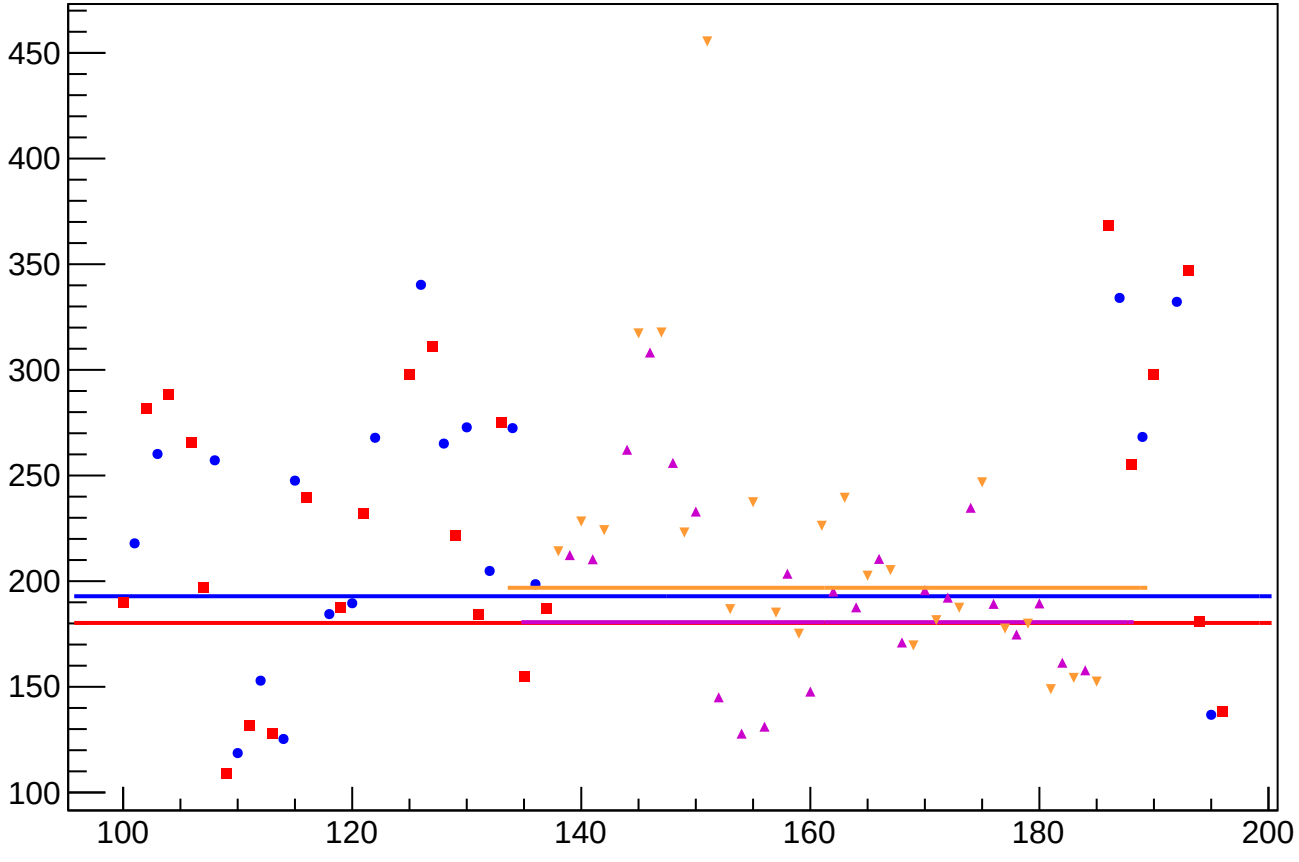
Right: -123.239+/-43.324 $\chi^2$/NDF: 36.4/43

In: 51.319+/-36.582 $\chi^2$/NDF:35.7/42

Out: 31.759+/-36.626 $\chi^2$/NDF:40.5/47

All: 41.551+/-25.883 $\chi^2$/NDF: 76.3/90

# asym_bcm_dg_us_an_us_avg_rms vs Slug, Sign Corrected




Right In: 192.869+/-0.046 $\chi^2$/NDF: 1790461.5/19

Left Out: 196.873+/-0.034 $\chi^2$/NDF:1725106.9/23

Right Out: 180.231+/-0.041 $\chi^2$/NDF: 2533177.4/23

Left In: 180.601+/-0.031 $\chi^2$/NDF:1628072.3/22

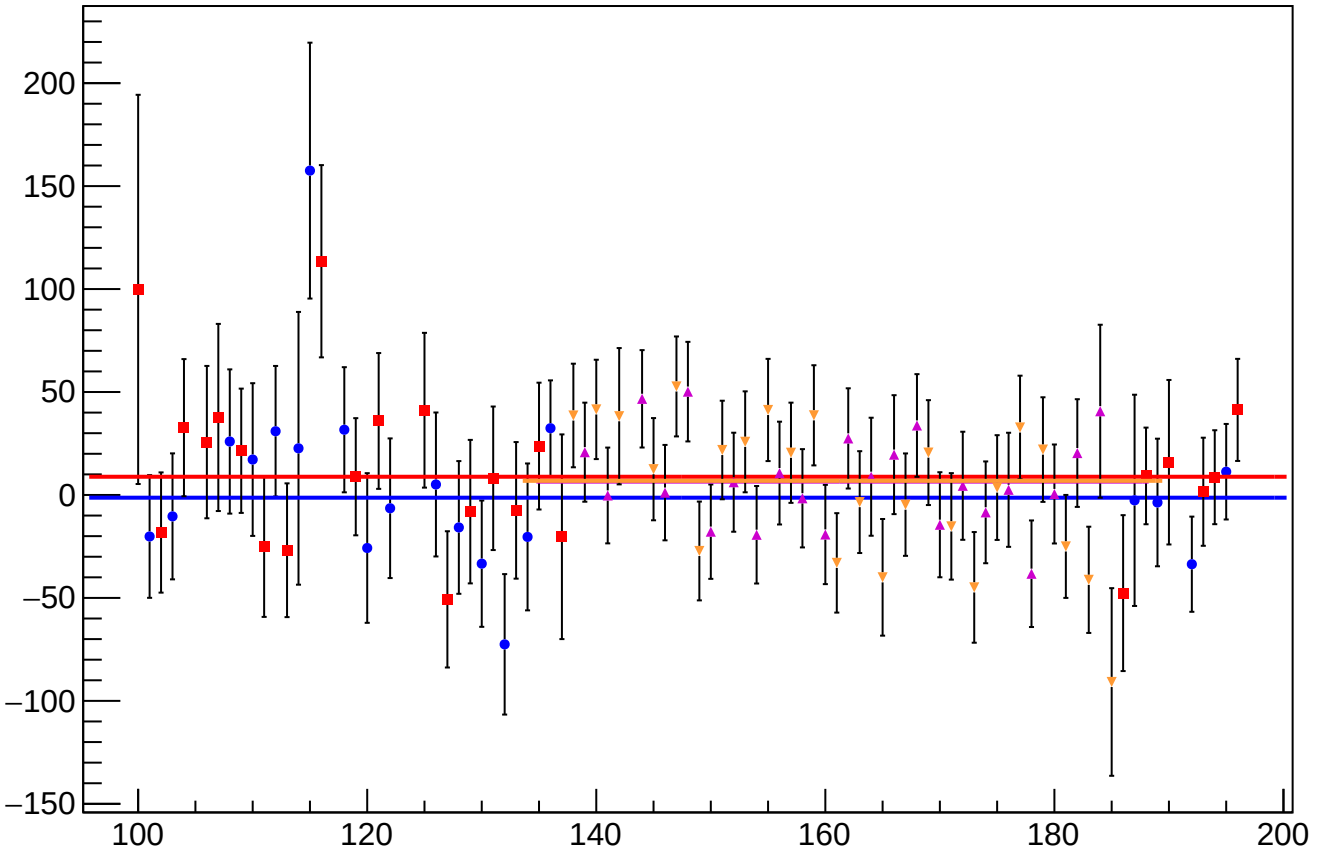
Left: 188.149+/-0.023 $\chi^2$/NDF: 3479589.1/46

Right: 185.748+/-0.031 $\chi^2$/NDF: 4365499.9/43

In: 184.420+/-0.026 $\chi^2$/NDF:3466749.0/42

Out: 190.172+/-0.026 $\chi^2$/NDF:4357601.0/47

All: 187.292+/-0.018 $\chi^2$/NDF: 7849038.6/90




Right In: -1.324+/-7.175 $\chi^2$/NDF: 21.0/19

Left Out: 6.857+/-5.229 $\chi^2$/NDF:36.8/23

Right Out: 8.846+/-6.636 $\chi^2$/NDF: 20.1/23

Left In: 6.482+/-5.247 $\chi^2$/NDF:17.4/22

Left: 6.670+/-3.704 $\chi^2$/NDF: 54.3/46

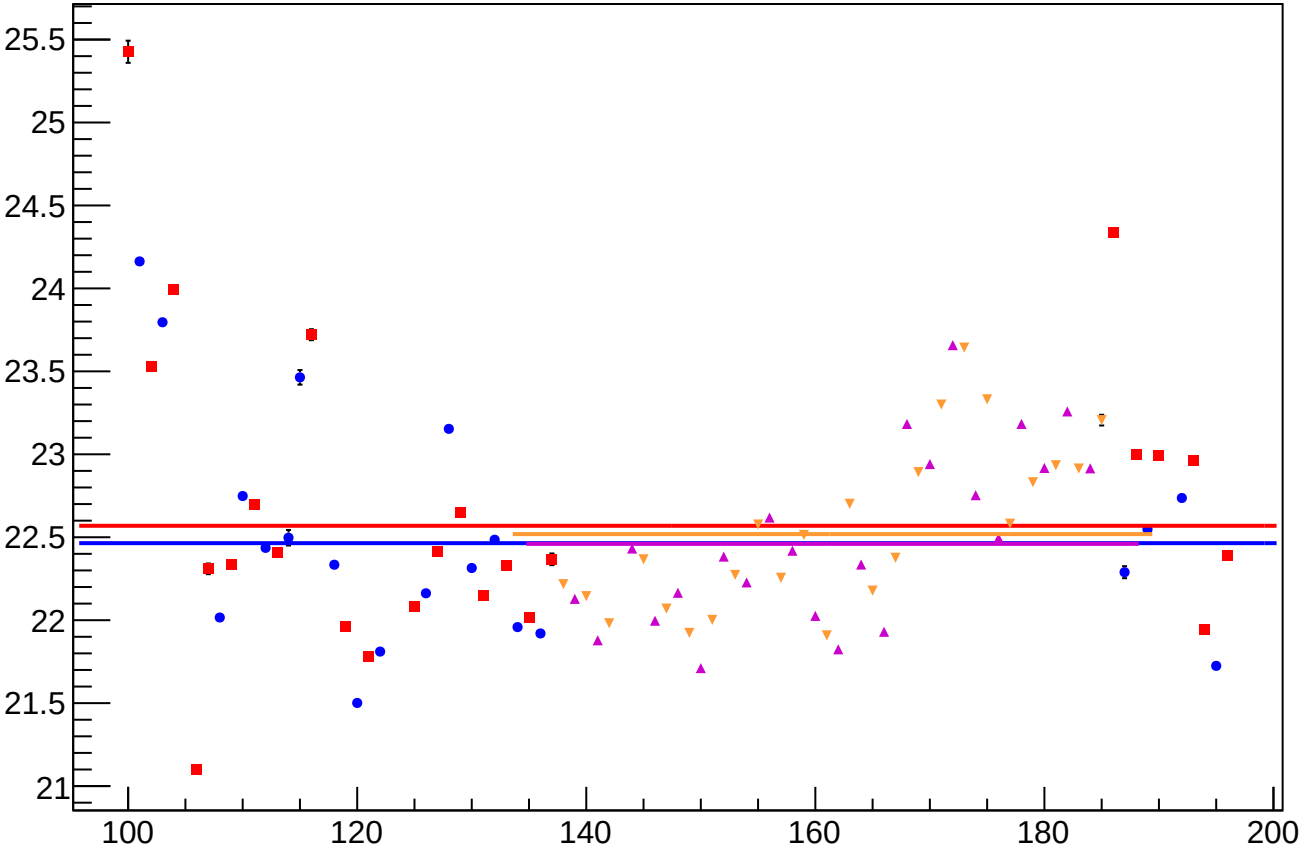
Right: 4.157+/-4.872 $\chi^2$/NDF: 42.2/43

In: 3.762+/-4.235 $\chi^2$/NDF:39.3/42

Out: 7.619+/-4.107 $\chi^2$/NDF:57.0/47

All: 5.750+/-2.948 $\chi^2$/NDF: 96.7/90

# asym_bcm_dg_us_an_us_dd_rms vs Slug, Sign Corrected




Right In: 22.464+/-0.005 $\chi^2$/NDF: 18396.0/19

Left Out: 22.519+/-0.004 $\chi^2$/NDF:15998.2/23

Right Out: 22.569+/-0.005 $\chi^2$/NDF: 23111.1/23

Left In: 22.460+/-0.004 $\chi^2$/NDF:19117.2/22

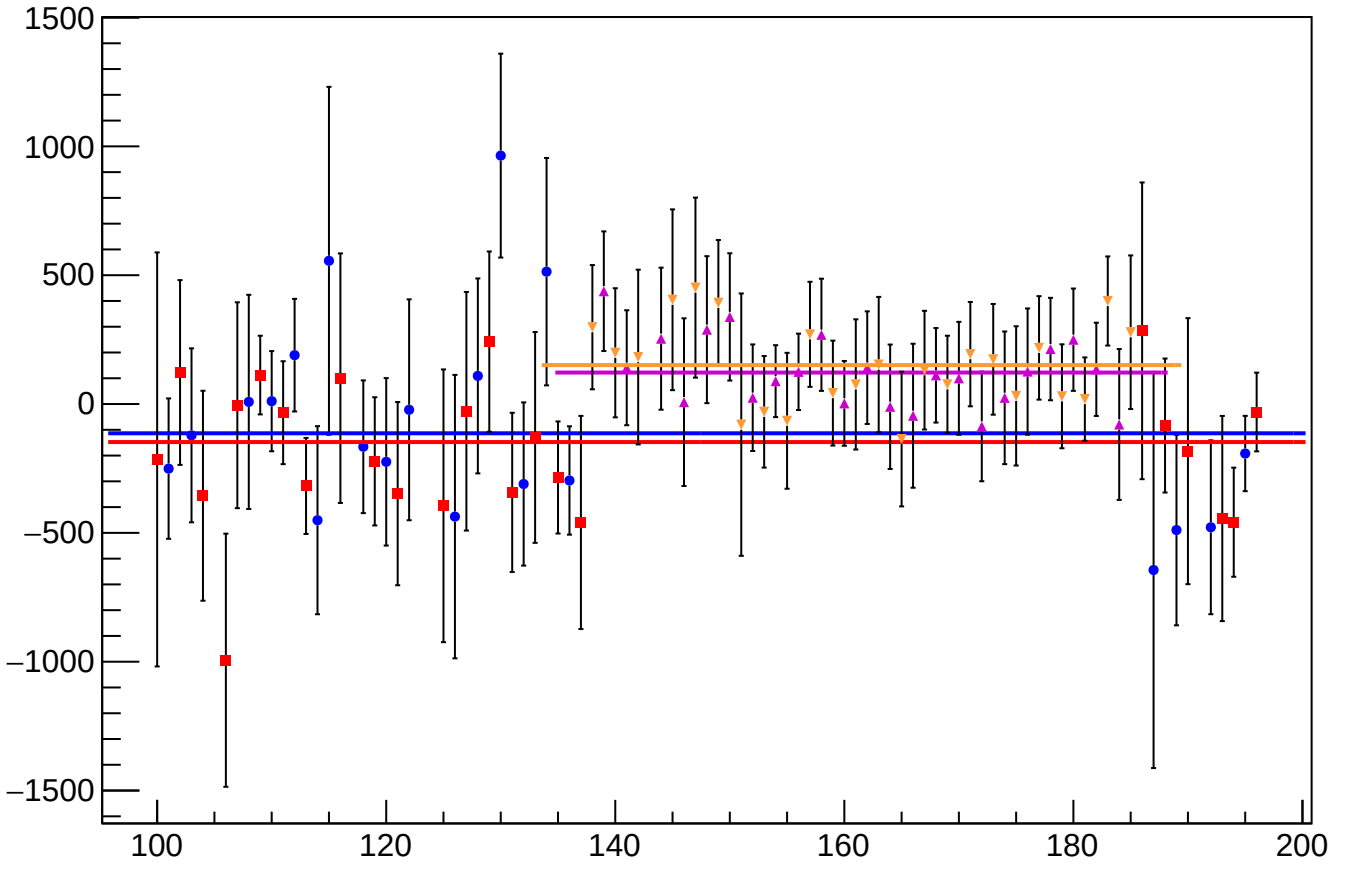
Left: 22.490+/-0.003 $\chi^2$/NDF: 35241.2/46

Right: 22.521+/-0.003 $\chi^2$/NDF: 41736.7/43

In: 22.462+/-0.003 $\chi^2$/NDF:37513.6/42

Out: 22.538+/-0.003 $\chi^2$/NDF:39179.6/47

All: 22.501+/-0.002 $\chi^2$/NDF: 77029.6/90




Right In: -113.537+/-65.353 $\chi^2$/NDF: 19.0/19

Left Out: 151.108+/-47.316 $\chi^2$/NDF:10.0/23

Right Out: -147.579+/-57.378 $\chi^2$/NDF: 15.5/23

Left In: 122.165+/-44.006 $\chi^2$/NDF:7.5/22

Left: 135.589+/-32.224 $\chi^2$/NDF: 17.6/46

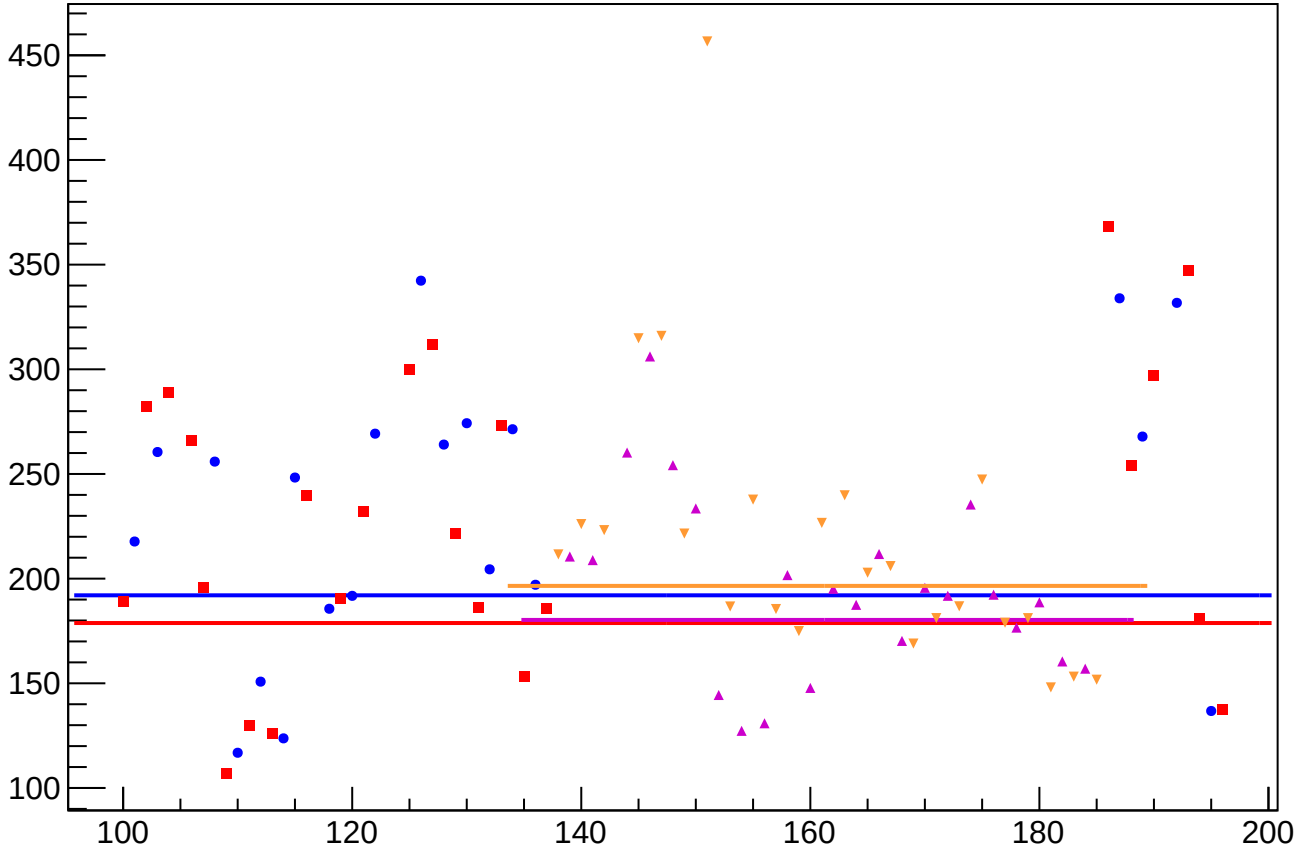
Right: -132.761+/-43.118 $\chi^2$/NDF: 34.6/43

In: 48.634+/-36.502 $\chi^2$/NDF:35.4/42

Out: 30.209+/-36.505 $\chi^2$/NDF:41.6/47

All: 39.422+/-25.812 $\chi^2$/NDF: 77.1/90

# asym_bcm_dg_ds_an_us_avg_rms vs Slug, Sign Corrected




Right In: 192.033+/-0.046 $\chi^2$/NDF: 1826174.1/19

Left Out: 196.533+/-0.033 $\chi^2$/NDF:1727888.6/23

Right Out: 178.796+/-0.041 $\chi^2$/NDF: 2613416.2/23

Left In: 180.274+/-0.031 $\chi^2$/NDF:1624682.7/22

Left: 187.815+/-0.023 $\chi^2$/NDF: 3479198.8/46

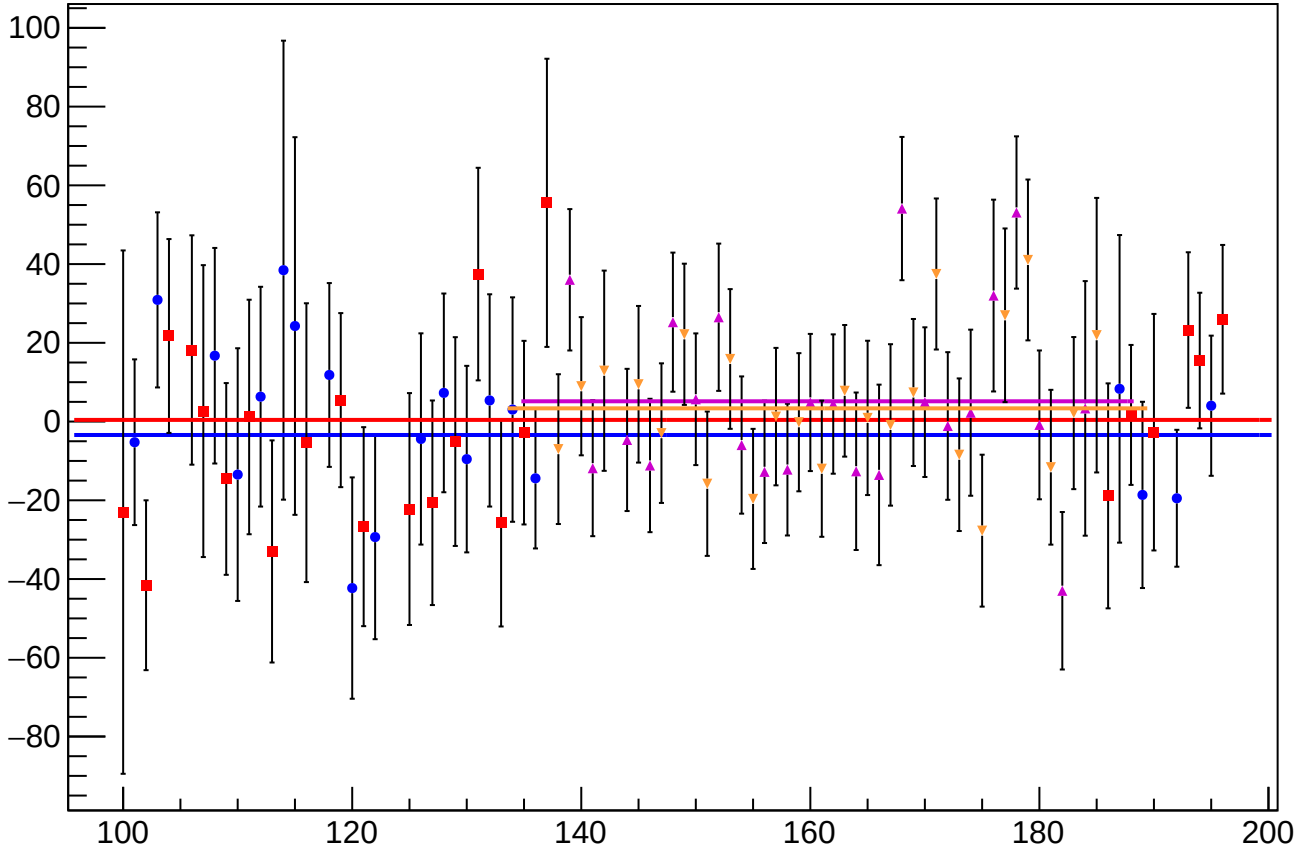
Right: 184.558+/-0.030 $\chi^2$/NDF: 4485926.1/43

In: 183.943+/-0.026 $\chi^2$/NDF:3495406.3/42

Out: 189.354+/-0.026 $\chi^2$/NDF:4455068.1/47

All: 186.648+/-0.018 $\chi^2$/NDF: 7972448.3/90

asym_bcm_dg_ds_an_us_dd_mean vs Slug, Sign Corrected




Right In: -3.410+/-5.540 $\chi^2$/NDF: 9.7/19

Left Out: 3.359+/-3.905 $\chi^2$/NDF:17.7/23

Right Out: 0.420+/-5.123 $\chi^2$/NDF: 18.9/23

Left In: 5.150+/-3.924 $\chi^2$/NDF:32.3/22

Left: 4.250+/-2.768 $\chi^2$/NDF: 50.1/46

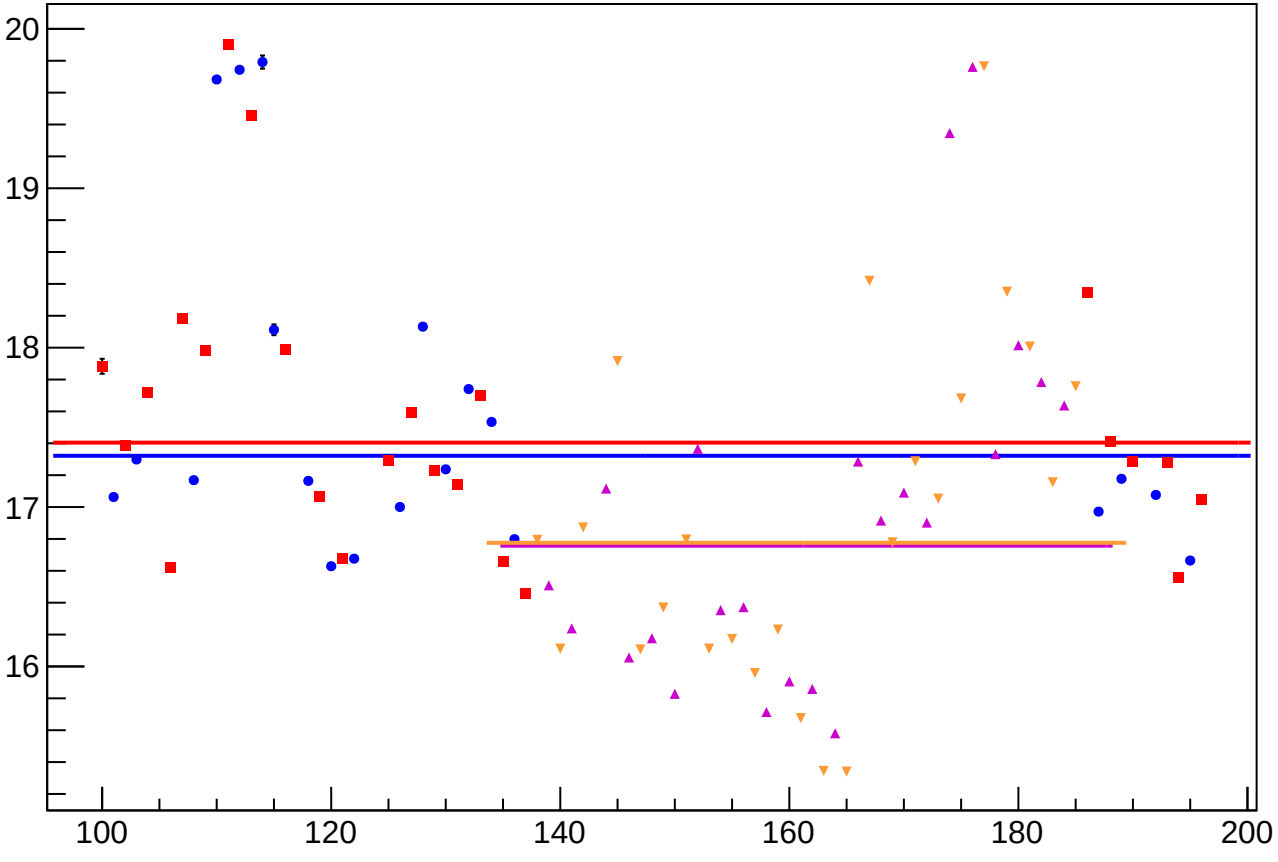
Right: -1.345+/-3.761 $\chi^2$/NDF: 28.8/43

In: 2.290+/-3.202 $\chi^2$/NDF:43.5/42

Out: 2.279+/-3.105 $\chi^2$/NDF:36.8/47

All: 2.285+/-2.229 $\chi^2$/NDF: 80.3/90

# asym_bcm_dg_ds_an_us_dd_rms vs Slug, Sign Corrected




Right In: 17.322+/-0.004 $\chi^2$/NDF: 40971.3/19

Left Out: 16.776+/-0.003 $\chi^2$/NDF:136142.5/23

Right Out: 17.404+/-0.004 $\chi^2$/NDF: 43117.5/23

Left In: 16.758+/-0.003 $\chi^2$/NDF:123306.8/22

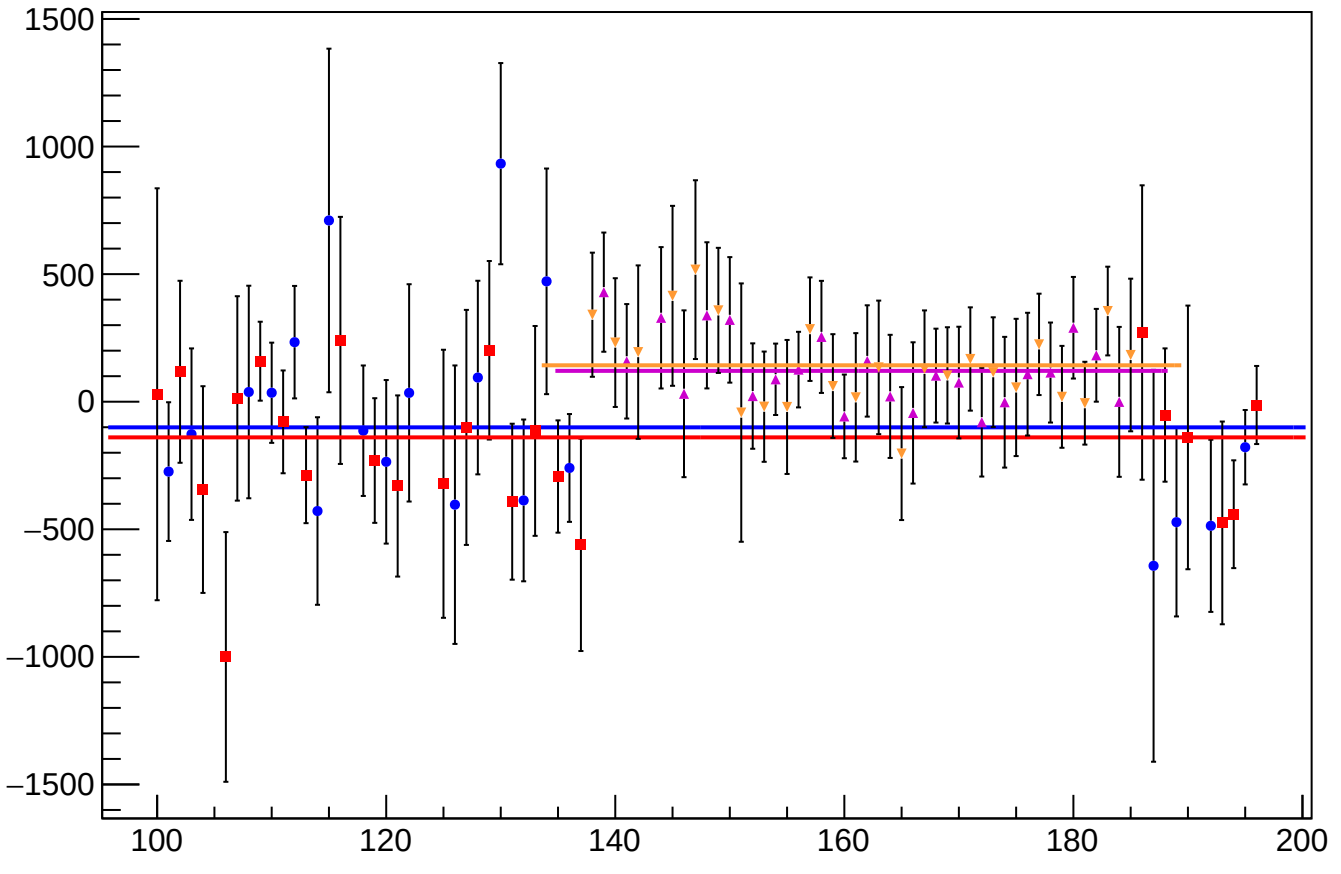
Left: 16.767+/-0.002 $\chi^2$/NDF: 259470.4/46

Right: 17.366+/-0.003 $\chi^2$/NDF: 84327.5/43

In: 16.946+/-0.002 $\chi^2$/NDF:178077.3/42

Out: 17.007+/-0.002 $\chi^2$/NDF:198295.5/47

All: 16.977+/-0.002 $\chi^2$/NDF: 376740.0/90




Right In: -100.504+/-65.388 $\chi^2$/NDF: 19.4/19

Left Out: 142.696+/-47.288 $\chi^2$/NDF:10.2/23

Right Out: -139.777+/-57.550 $\chi^2$/NDF: 16.9/23

Left In: 120.888+/-43.994 $\chi^2$/NDF:8.2/22

Left: 131.006+/-32.210 $\chi^2$/NDF: 18.5/46

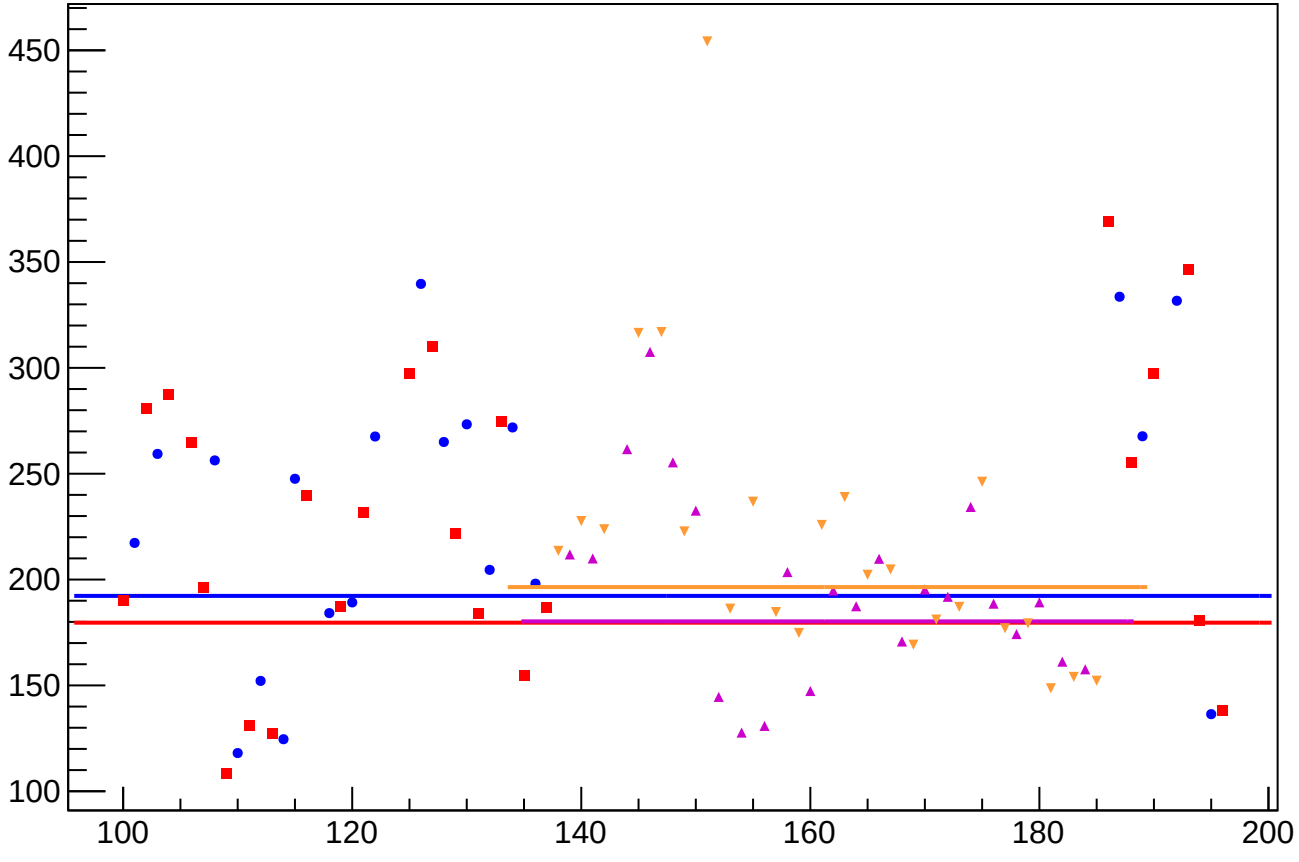
Right: -122.634+/-43.201 $\chi^2$/NDF: 36.5/43

In: 51.898+/-36.502 $\chi^2$/NDF:35.5/42

Out: 28.848+/-36.536 $\chi^2$/NDF:41.4/47

All: 40.384+/-25.823 $\chi^2$/NDF: 77.1/90

# asym_bcm_dg_us_an_ds_avg_rms vs Slug, Sign Corrected




Right In: 192.283+/-0.046 $\chi^2$/NDF: 1801655.5/19

Left Out: 196.452+/-0.033 $\chi^2$/NDF:1723529.1/23

Right Out: 179.632+/-0.041 $\chi^2$/NDF: 2550488.8/23

Left In: 180.248+/-0.031 $\chi^2$/NDF:1627777.0/22

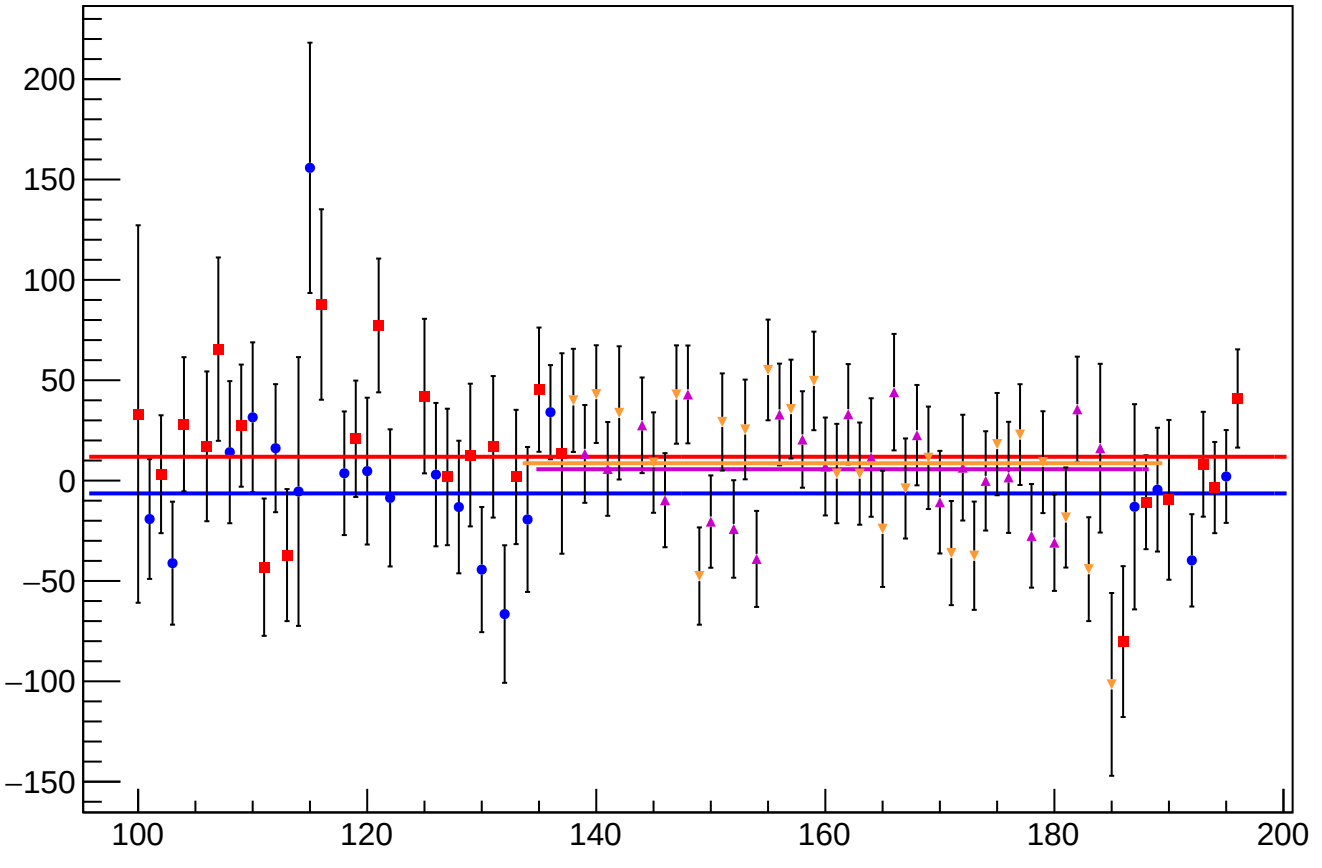
Left: 187.766+/-0.023 $\chi^2$/NDF: 3477190.3/46

Right: 185.154+/-0.031 $\chi^2$/NDF: 4394330.0/43

In: 183.998+/-0.026 $\chi^2$/NDF:3476074.6/42

Out: 189.673+/-0.026 $\chi^2$/NDF:4375997.2/47

All: 186.833+/-0.018 $\chi^2$/NDF: 7876217.7/90




Right In: -6.386+/-7.219 $\chi^2$/NDF: 20.3/19

Left Out: 8.664+/-5.275 $\chi^2$/NDF:39.2/23

Right Out: 11.879+/-6.671 $\chi^2$/NDF: 24.4/23

Left In: 5.668+/-5.286 $\chi^2$/NDF:20.8/22

Left: 7.169+/-3.734 $\chi^2$/NDF: 60.1/46

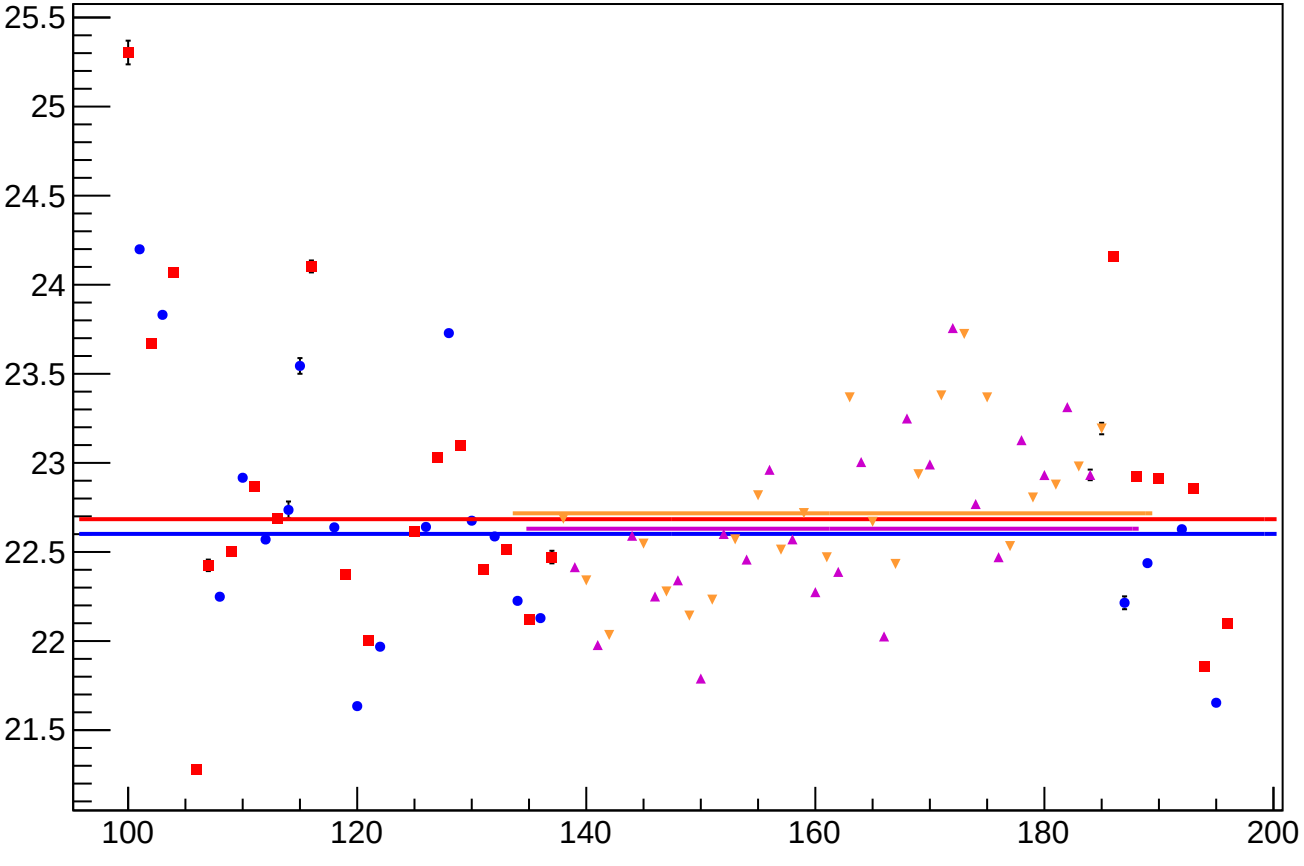
Right: 3.467+/-4.899 $\chi^2$/NDF: 48.2/43

In: 1.460+/-4.265 $\chi^2$/NDF:43.0/42

Out: 9.901+/-4.138 $\chi^2$/NDF:63.7/47

All: 5.809+/-2.970 $\chi^2$/NDF: 108.7/90

# asym_bcm_dg_us_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 22.601+/-0.005 $\chi^2$/NDF: 18753.0/19

Left Out: 22.717+/-0.004 $\chi^2$/NDF:12177.5/23

Right Out: 22.684+/-0.005 $\chi^2$/NDF: 21692.5/23

Left In: 22.631+/-0.004 $\chi^2$/NDF:15391.4/22

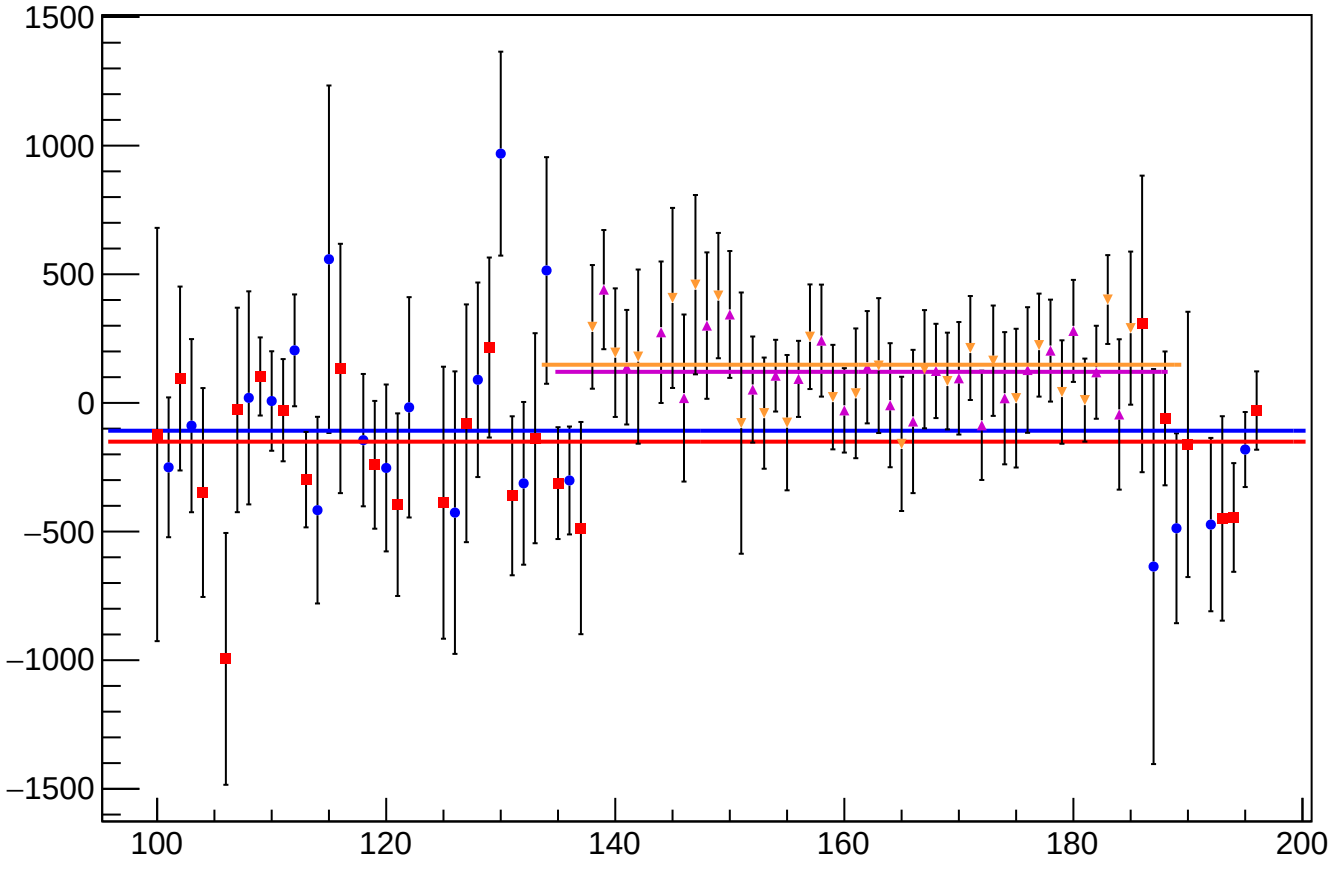
Left: 22.674+/-0.003 $\chi^2$/NDF: 27836.8/46

Right: 22.646+/-0.003 $\chi^2$/NDF: 40586.7/43

In: 22.620+/-0.003 $\chi^2$/NDF:34165.5/42

Out: 22.704+/-0.003 $\chi^2$/NDF:33900.0/47

All: 22.664+/-0.002 $\chi^2$/NDF: 68464.4/90




Right In: -108.098+/-65.172 $\chi^2$/NDF: 19.0/19

Left Out: 148.424+/-47.213 $\chi^2$/NDF:10.9/23

Right Out: -150.631+/-57.208 $\chi^2$/NDF: 15.4/23

Left In: 120.760+/-43.920 $\chi^2$/NDF:7.9/22

Left: 133.593+/-32.157 $\chi^2$/NDF: 19.0/46

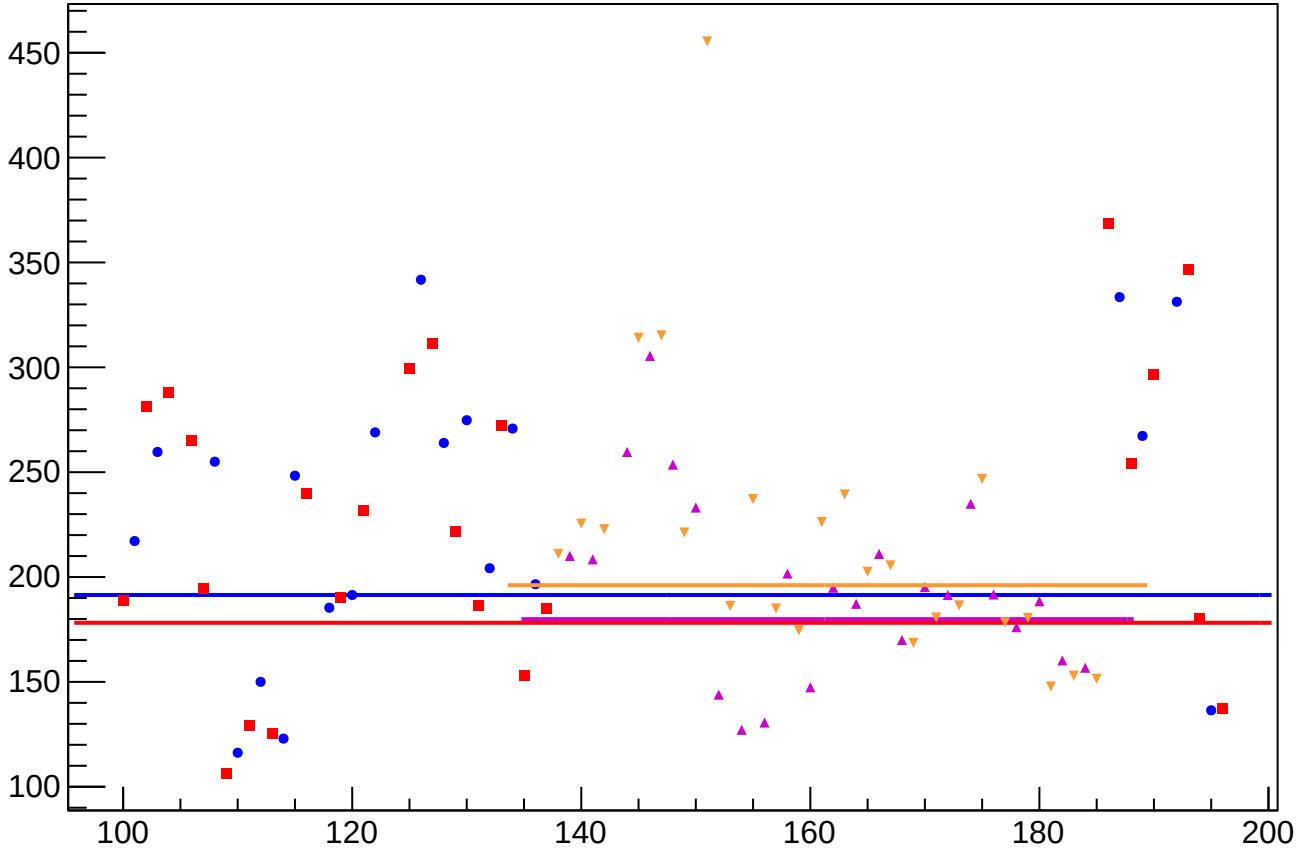
Right: -132.121+/-42.993 $\chi^2$/NDF: 34.6/43

In: 49.284+/-36.421 $\chi^2$/NDF:35.3/42

Out: 27.260+/-36.414 $\chi^2$/NDF:42.6/47

All: 38.270+/-25.751 $\chi^2$/NDF: 78.1/90

# asym_bcm_dg_ds_an_ds_avg_rms vs Slug, Sign Corrected




Right In: 191.439+/-0.046 $\chi^2$/NDF: 1837995.5/19

Left Out: 196.112+/-0.033 $\chi^2$/NDF:1726285.1/23

Right Out: 178.186+/-0.040 $\chi^2$/NDF: 2631678.4/23

Left In: 179.923+/-0.031 $\chi^2$/NDF:1624144.3/22

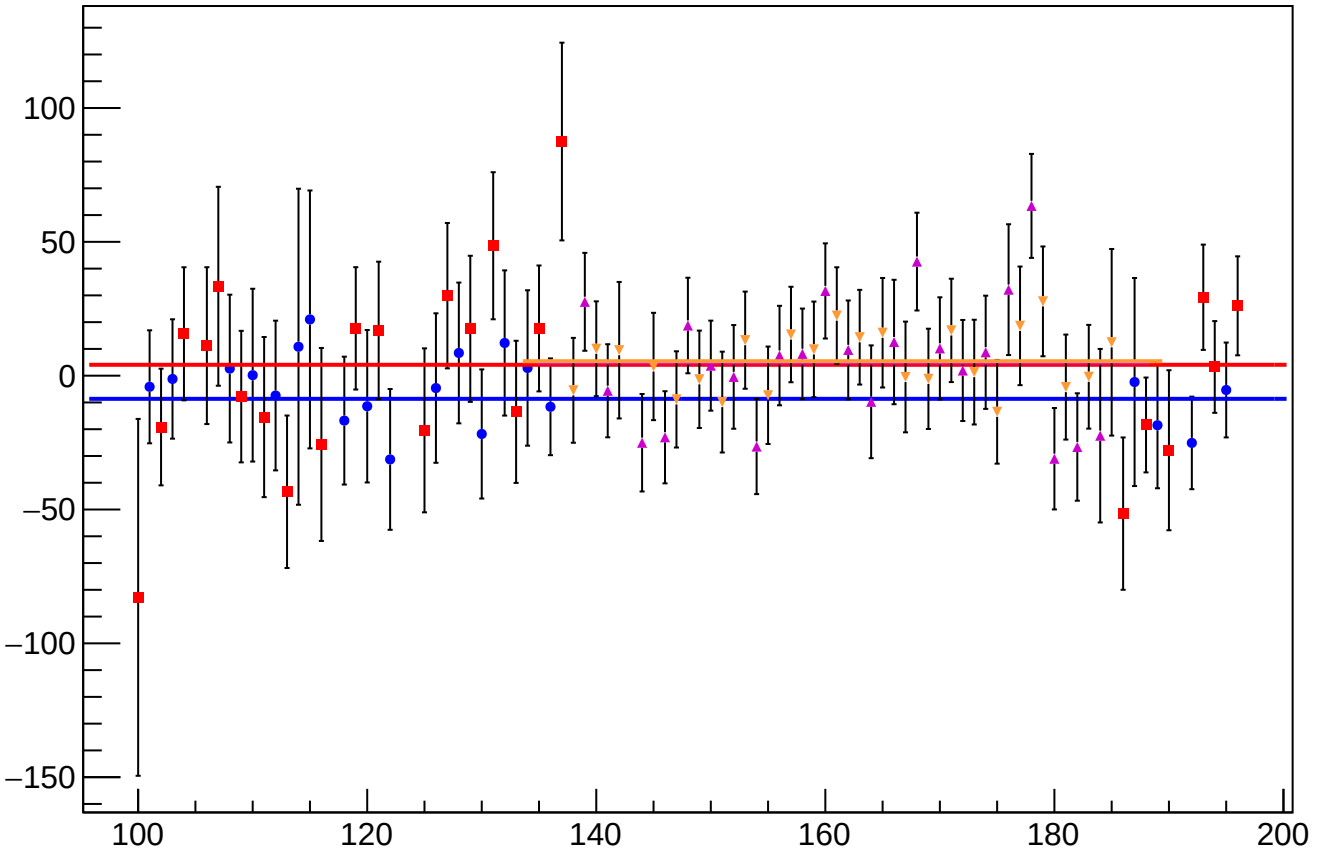
Left: 187.434+/-0.023 $\chi^2$/NDF: 3476487.5/46

Right: 183.954+/-0.030 $\chi^2$/NDF: 4516386.3/43

In: 183.520+/-0.026 $\chi^2$/NDF:3505081.5/42

Out: 188.849+/-0.026 $\chi^2$/NDF:4474777.6/47

All: 186.185+/-0.018 $\chi^2$/NDF: 8001275.3/90




Right In: -8.648+/-5.590 $\chi^2$/NDF: 4.4/19

Left Out: 5.406+/-3.972 $\chi^2$/NDF:7.8/23

Right Out: 4.069+/-5.161 $\chi^2$/NDF: 28.4/23

Left In: 4.858+/-3.980 $\chi^2$/NDF:35.5/22

Left: 5.133+/-2.812 $\chi^2$/NDF: 43.3/46

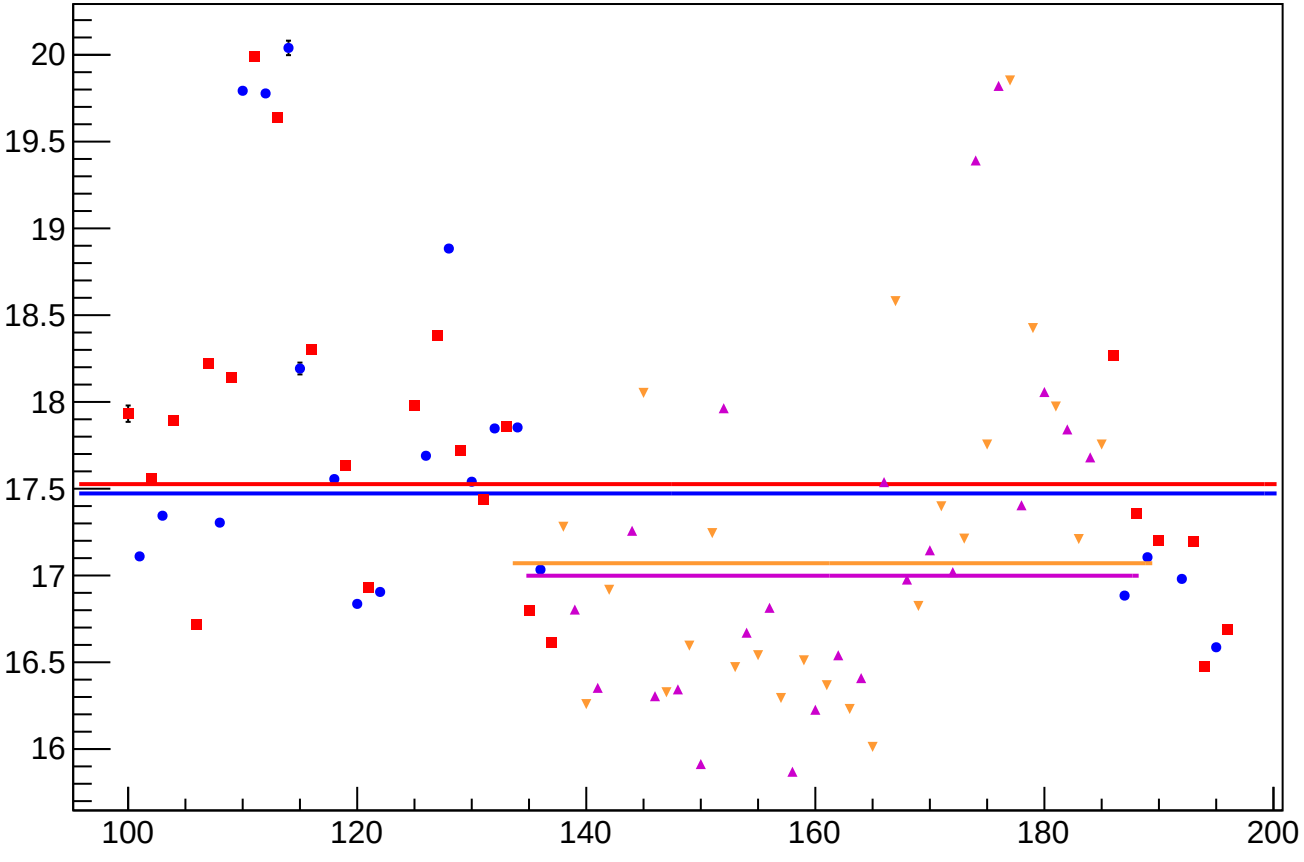
Right: -1.782+/-3.792 $\chi^2$/NDF: 35.6/43

In: 0.314+/-3.242 $\chi^2$/NDF:43.8/42

Out: 4.909+/-3.148 $\chi^2$/NDF:36.2/47

All: 2.680+/-2.258 $\chi^2$/NDF: 81.0/90

# asym_bcm_dg_ds_an_ds_dd_rms vs Slug, Sign Corrected




Right In: 17.473+/-0.004 $\chi^2$/NDF: 46202.4/19

Left Out: 17.071+/-0.003 $\chi^2$/NDF:96312.6/23

Right Out: 17.526+/-0.004 $\chi^2$/NDF: 50512.5/23

Left In: 16.999+/-0.003 $\chi^2$/NDF:104021.0/22

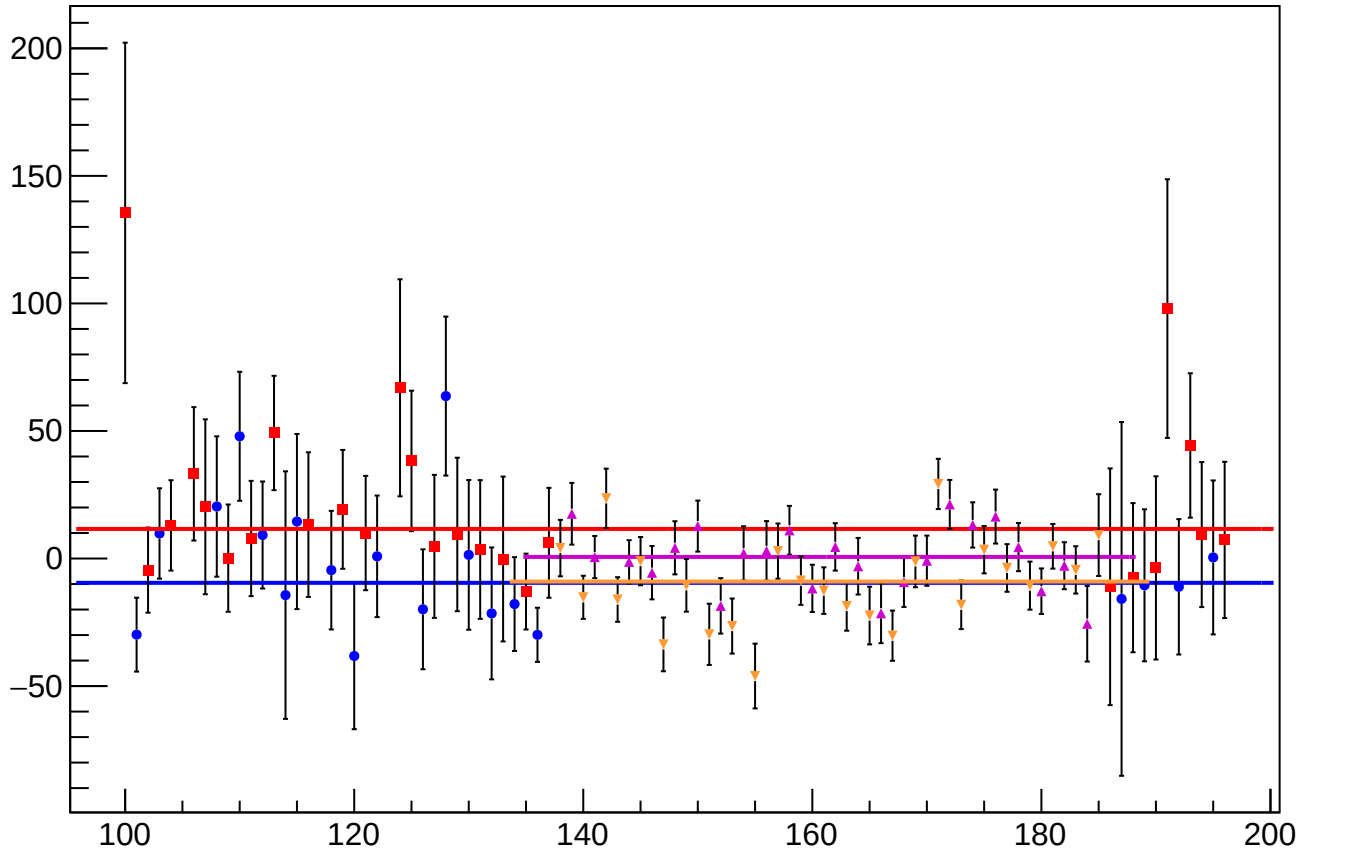
Left: 17.035+/-0.002 $\chi^2$/NDF: 200661.3/46

Right: 17.502+/-0.003 $\chi^2$/NDF: 96814.7/43

In: 17.158+/-0.002 $\chi^2$/NDF:159765.8/42

Out: 17.240+/-0.002 $\chi^2$/NDF:156621.1/47

All: 17.200+/-0.002 $\chi^2$/NDF: 317046.4/90




Right In: -9.529+/-4.976 $\chi^2$/NDF: 22.1/19

Left Out: -9.027+/-2.006 $\chi^2$/NDF:62.0/24

Right Out: 11.600+/-4.988 $\chi^2$/NDF: 19.2/25

Left In: 0.628+/-2.079 $\chi^2$/NDF:29.5/22

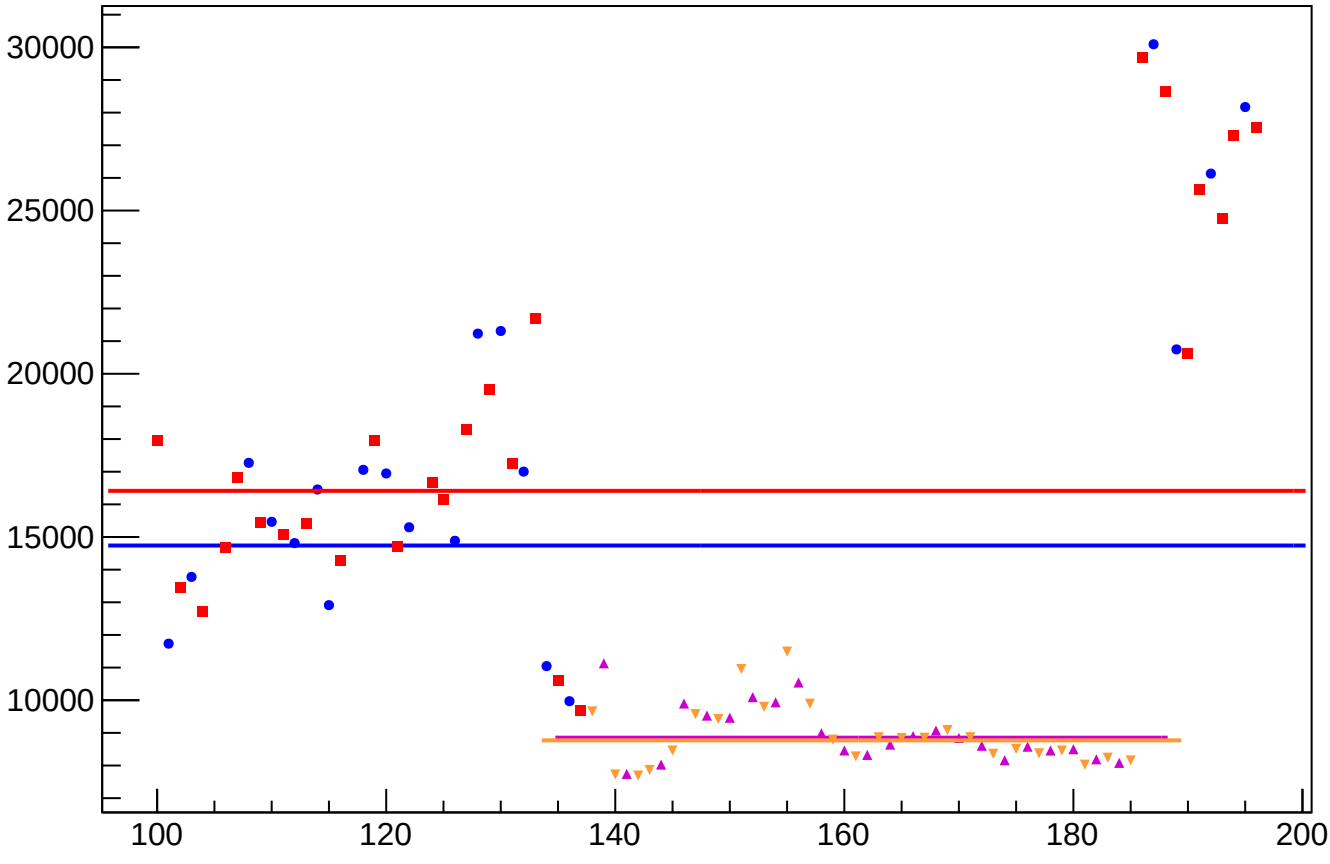
Left: -4.372+/-1.444 $\chi^2$/NDF: 102.7/47

Right: 1.009+/-3.523 $\chi^2$/NDF: 50.3/45

In: -0.882+/-1.918 $\chi^2$/NDF:55.2/42

Out: -6.155+/-1.861 $\chi^2$/NDF:95.9/50

All: -3.598+/-1.336 $\chi^2$/NDF: 155.0/93




Right In: 14738.803+/-3.518 $\chi^2$/NDF: 1782698.7/19

Left Out: 8770.330+/-1.419 $\chi^2$/NDF:345180.6/24

Right Out: 16413.853+/-3.527 $\chi^2$/NDF: 2129696.6/25

Left In: 8852.820+/-1.470 $\chi^2$/NDF:299860.4/22

Left: 8810.105+/-1.021 $\chi^2$/NDF: 646671.0/47

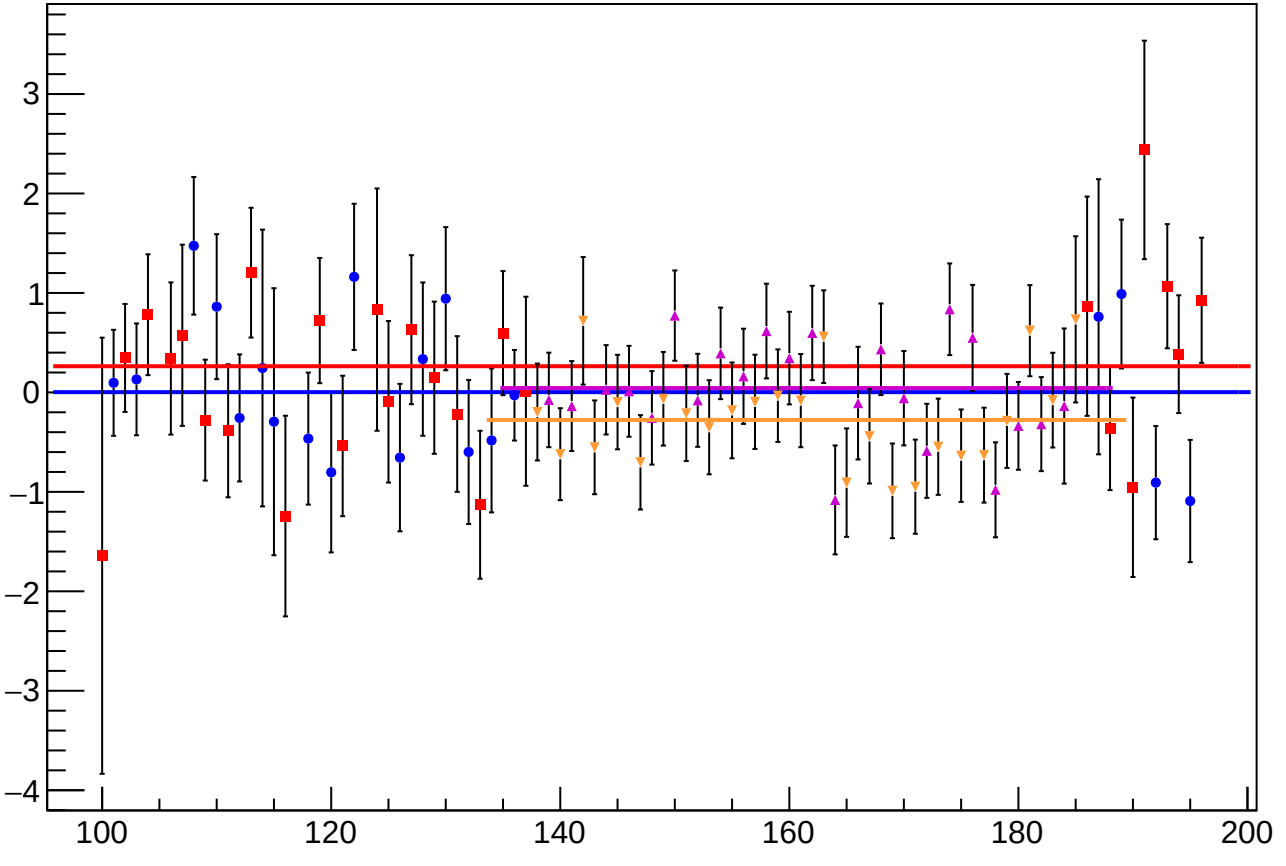
Right: 15574.225+/-2.491 $\chi^2$/NDF: 4025442.2/45

In: 9727.873+/-1.357 $\chi^2$/NDF:4465218.6/42

Out: 9834.789+/-1.316 $\chi^2$/NDF:6516922.9/50

All: 9782.943+/-0.945 $\chi^2$/NDF: 10985340.9/9

# diff_bpm_4aX_4acX_dd_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.154 $\chi^2$/NDF: 21.8/19

Left Out: -0.277+/-0.097 $\chi^2$/NDF:21.0/24

Right Out: 0.263+/-0.144 $\chi^2$/NDF: 24.3/25

Left In: 0.044+/-0.100 $\chi^2$/NDF:23.8/22

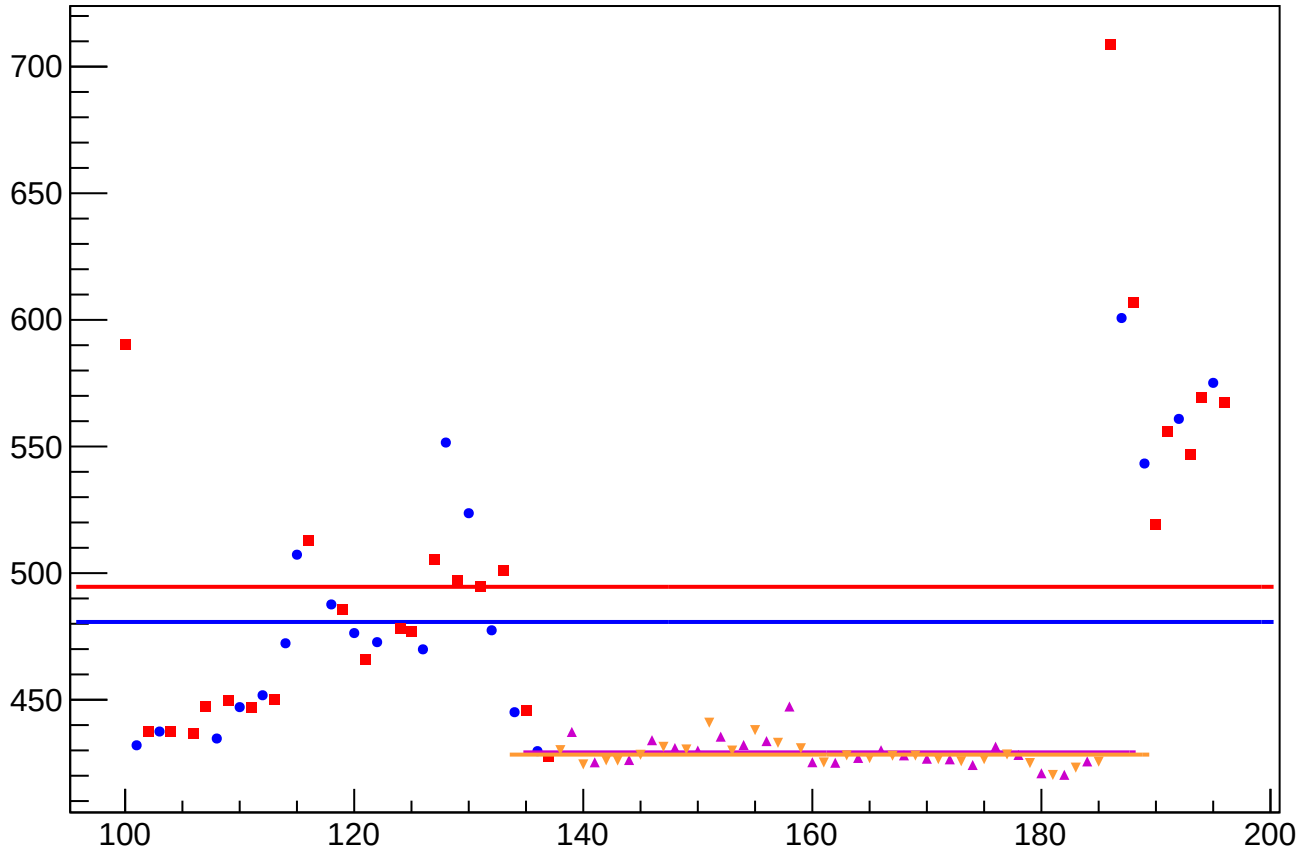
Left: -0.121+/-0.070 $\chi^2$/NDF: 50.1/47

Right: 0.142+/-0.105 $\chi^2$/NDF: 47.6/45

In: 0.032+/-0.084 $\chi^2$/NDF:45.7/42

Out: -0.107+/-0.081 $\chi^2$/NDF:55.0/50

All: -0.041+/-0.058 $\chi^2$/NDF: 102.1/93




Right In: 480.718+/-0.109 $\chi^2$/NDF: 217492.0/19

Left Out: 428.343+/-0.069 $\chi^2$/NDF:4016.5/24

Right Out: 494.596+/-0.102 $\chi^2$/NDF: 340683.6/25

Left In: 429.228+/-0.071 $\chi^2$/NDF:6749.9/22

Left: 428.772+/-0.049 $\chi^2$/NDF: 10846.7/47

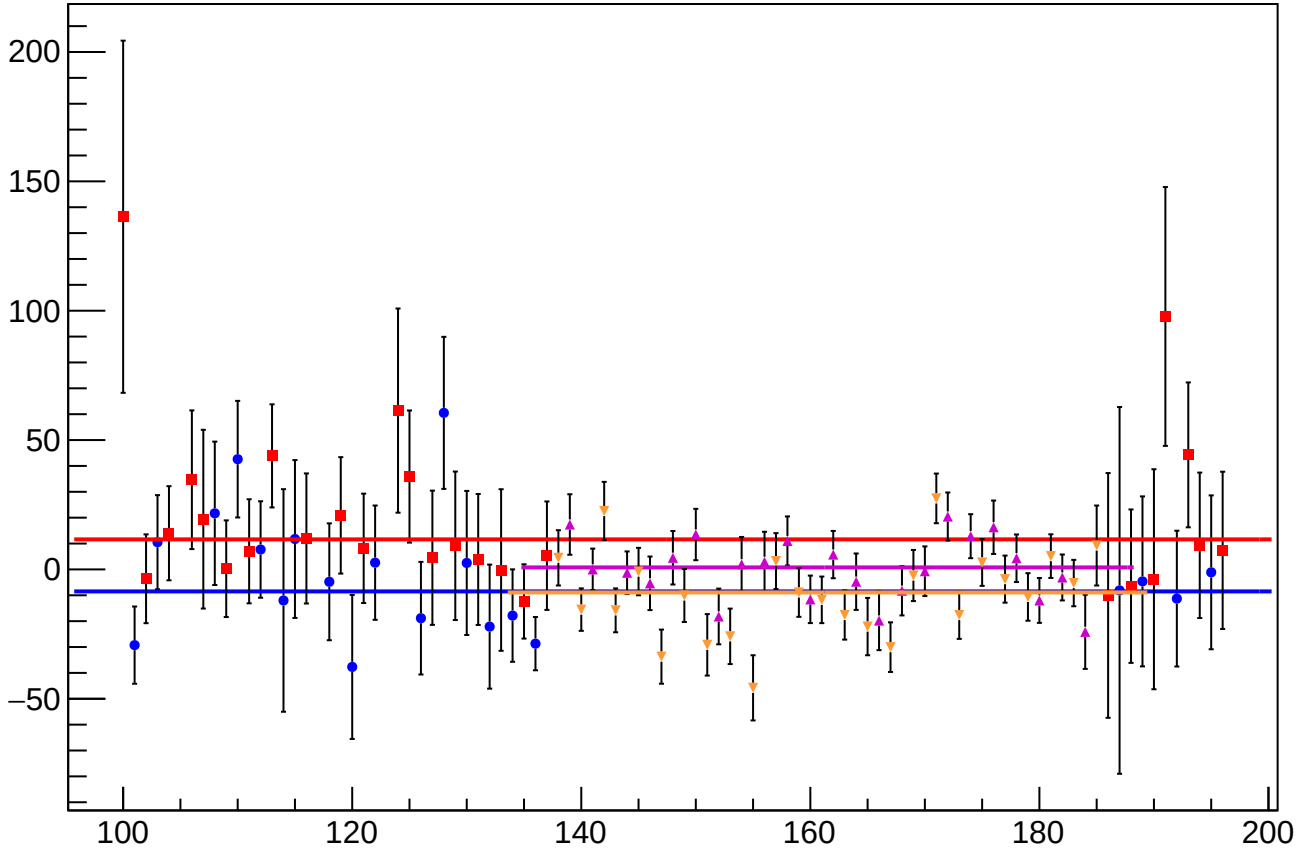
Right: 488.141+/-0.074 $\chi^2$/NDF: 566821.9/45

In: 444.497+/-0.059 $\chi^2$/NDF:380754.1/42

Out: 449.122+/-0.057 $\chi^2$/NDF:635496.3/50

All: 446.906+/-0.041 $\chi^2$/NDF: 1019403.6/93

# diff_bpm_4aX_4eX_avg_mean vs Slug, Sign Corrected




Right In: -8.505+/-4.814 $\chi^2$/NDF: 22.4/19

Left Out: -8.904+/-1.961 $\chi^2$/NDF:61.6/24

Right Out: 11.611+/-4.808 $\chi^2$/NDF: 19.0/25

Left In: 0.773+/-2.034 $\chi^2$/NDF:29.3/22

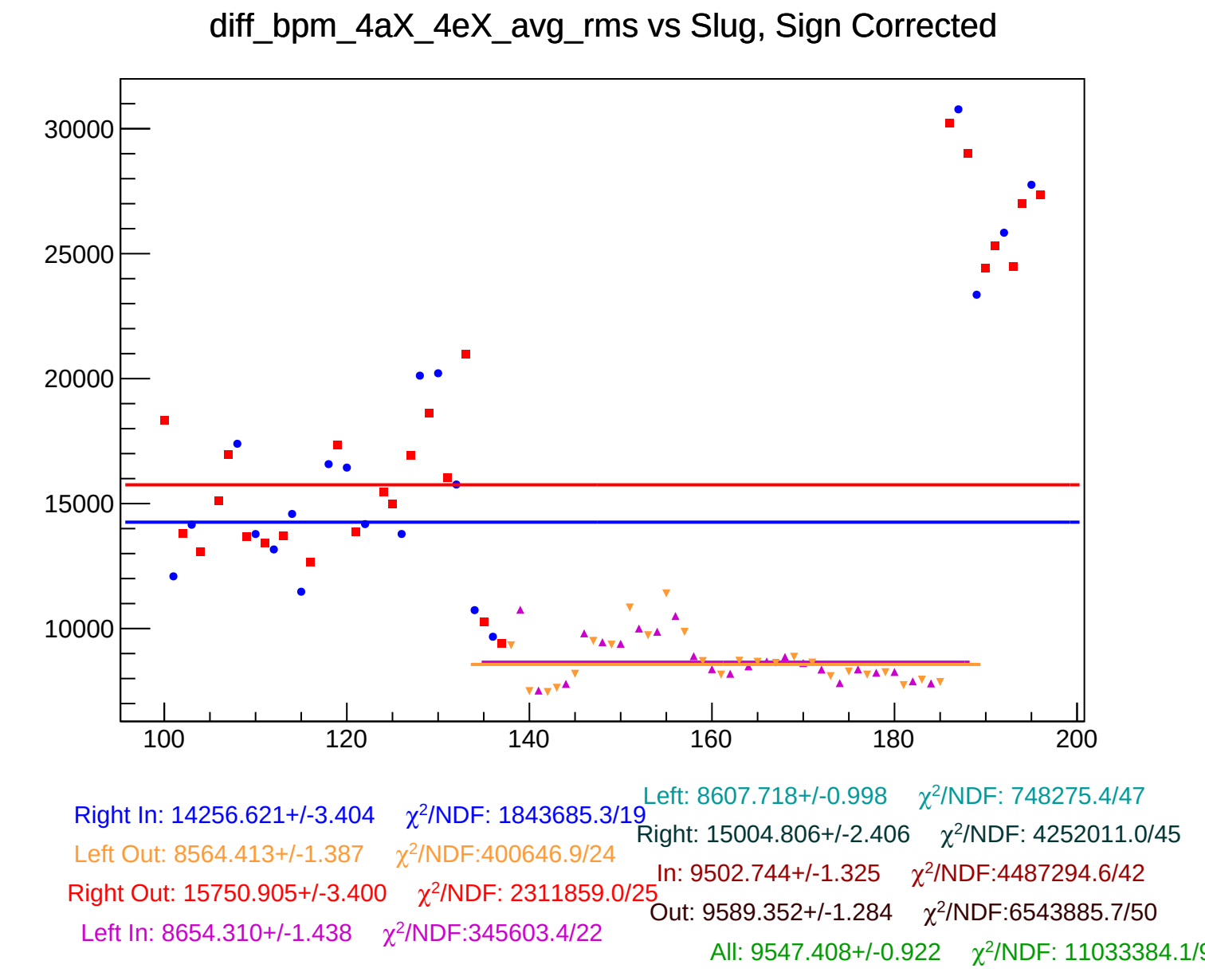
Left: -4.243+/-1.412 $\chi^2$/NDF: 102.6/47

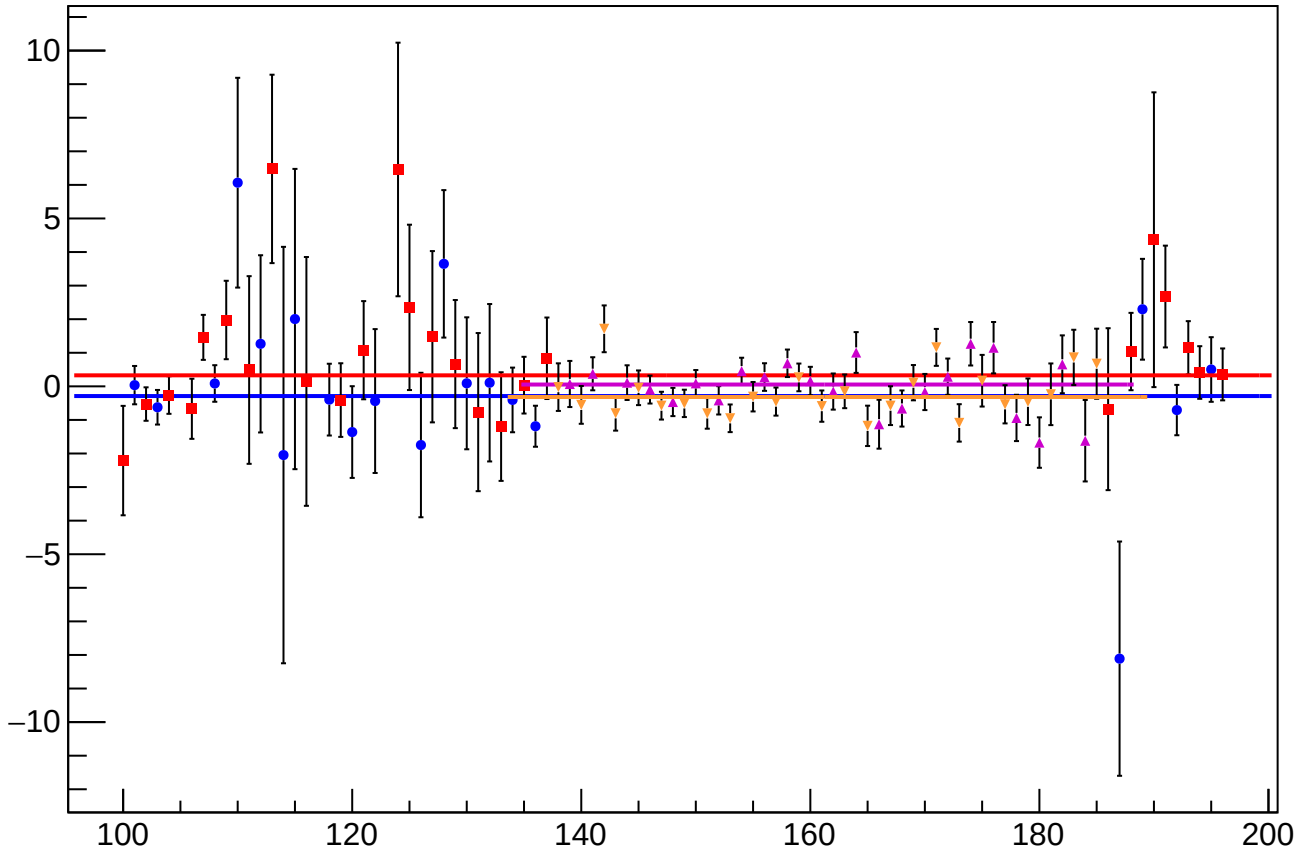
Right: 1.567+/-3.402 $\chi^2$/NDF: 50.1/45

In: -0.633+/-1.874 $\chi^2$/NDF:54.8/42

Out: -5.978+/-1.816 $\chi^2$/NDF:96.1/50

All: -3.389+/-1.304 $\chi^2$/NDF: 155.1/93


diff_bpm_4aX_4eX_avg_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
100
120
140
160
180
200
Right In: 14256.621+/-3.404 χ²/NDF: 1843685.3/19
Left Out: 8564.413+/-1.387 χ²/NDF:400646.9/24
Right Out: 15750.905+/-3.400 χ²/NDF: 2311859.0/25
Left In: 8654.310+/-1.438 χ²/NDF:345603.4/22
Left: 8607.718+/-0.998 χ²/NDF: 748275.4/47
Right: 15004.806+/-2.406 χ²/NDF: 4252011.0/45
In: 9502.744+/-1.325 χ²/NDF:4487294.6/42
Out: 9589.352+/-1.284 χ²/NDF:6543885.7/50
All: 9547.408+/-0.922 χ²/NDF: 11033384.1/9




Right In: -0.289+/-0.223 $\chi^2$/NDF: 21.6/19

Left Out: -0.318+/-0.106 $\chi^2$/NDF:32.3/24

Right Out: 0.328+/-0.208 $\chi^2$/NDF: 27.9/25

Left In: 0.054+/-0.108 $\chi^2$/NDF:29.8/22

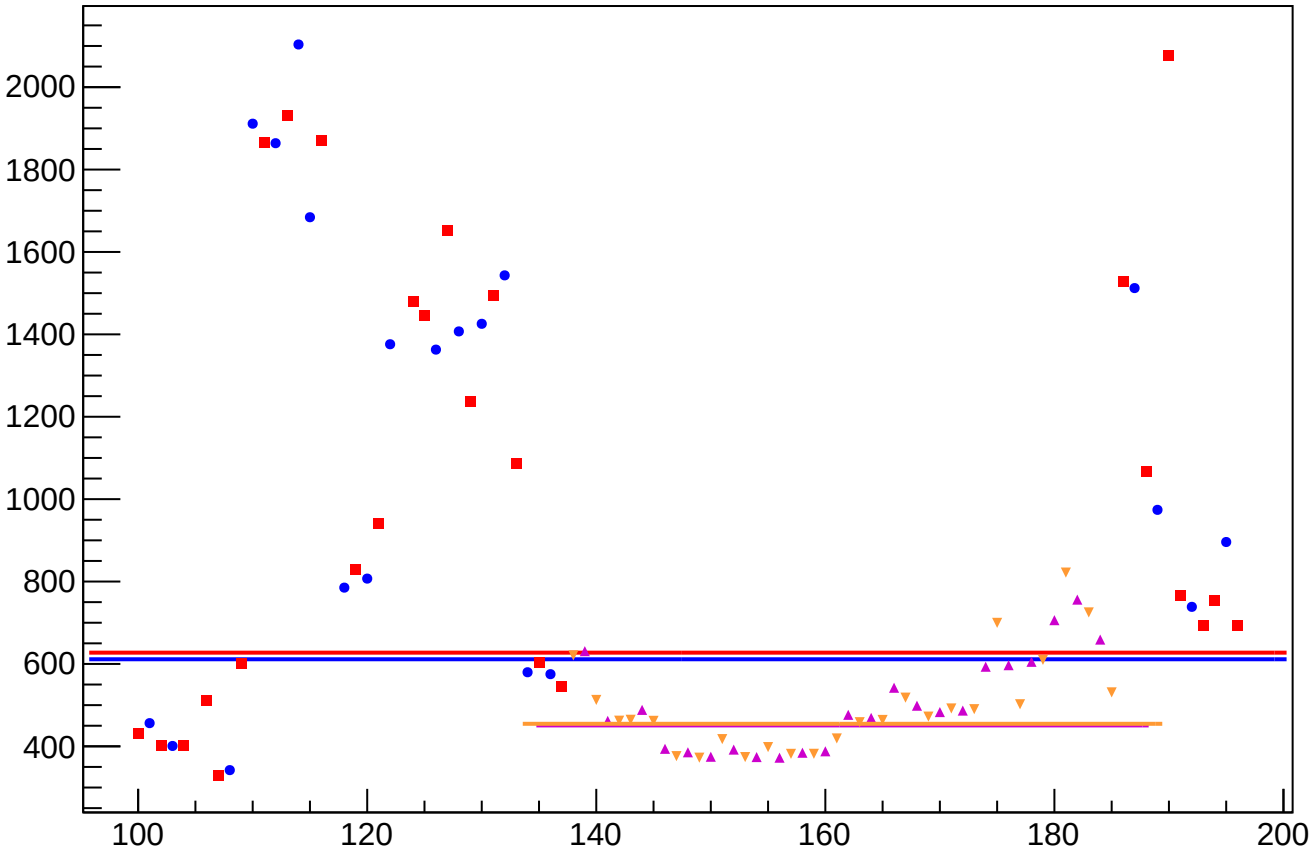
Left: -0.136+/-0.076 $\chi^2$/NDF: 68.1/47

Right: 0.040+/-0.152 $\chi^2$/NDF: 53.6/45

In: -0.011+/-0.097 $\chi^2$/NDF:53.3/42

Out: -0.185+/-0.094 $\chi^2$/NDF:67.8/50

All: -0.101+/-0.068 $\chi^2$/NDF: 122.7/93




Right In: 611.335+/-0.157 $\chi^2$/NDF: 4003616.9/19

Left Out: 454.697+/-0.075 $\chi^2$/NDF:1451363.0/24

Right Out: 627.394+/-0.147 $\chi^2$/NDF: 4585603.9/25

Left In: 450.767+/-0.076 $\chi^2$/NDF:1471497.9/22

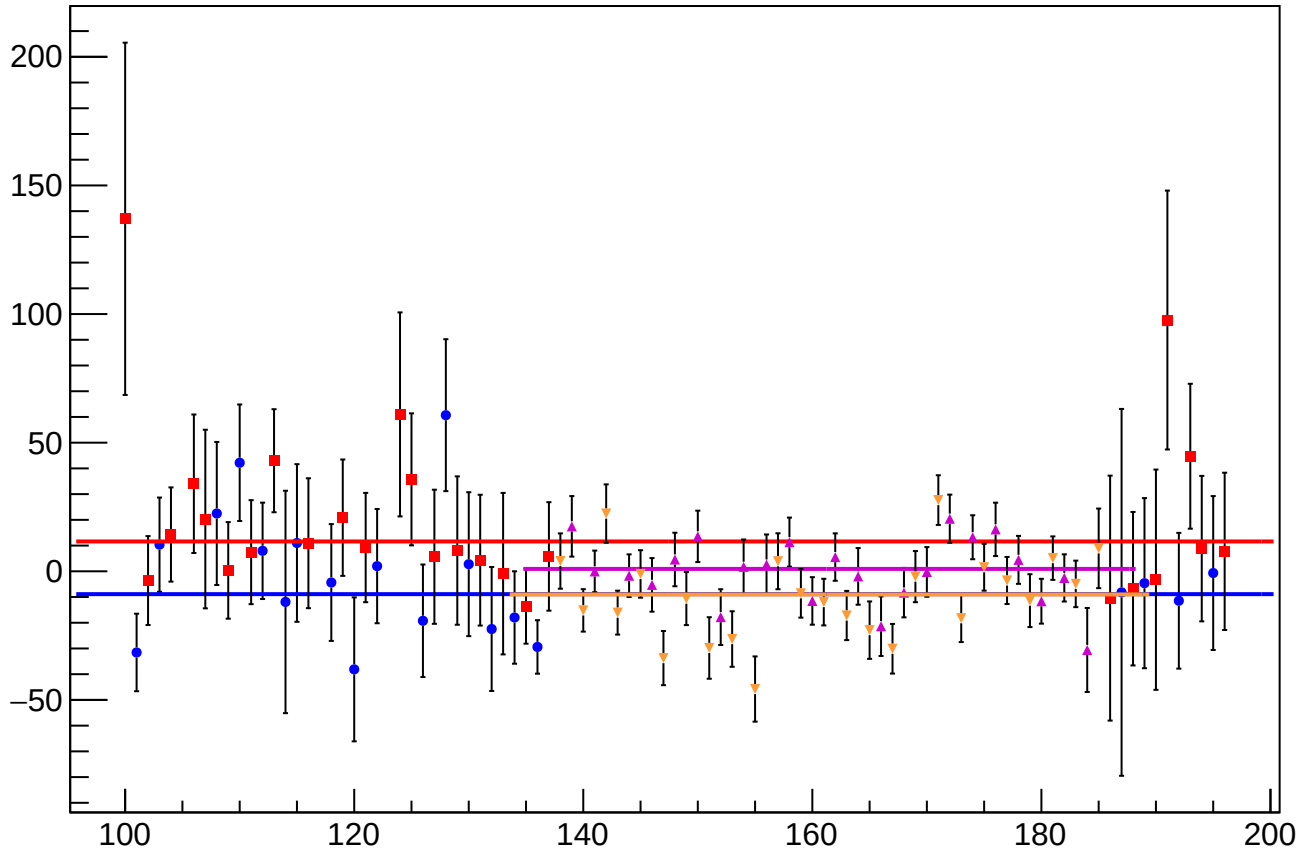
Left: 452.772+/-0.054 $\chi^2$/NDF: 2924208.1/47

Right: 619.901+/-0.108 $\chi^2$/NDF: 8594768.7/45

In: 481.403+/-0.069 $\chi^2$/NDF:6316437.7/42

Out: 490.211+/-0.067 $\chi^2$/NDF:7129175.9/50

All: 485.937+/-0.048 $\chi^2$/NDF: 13454055.4/93




Right In: -8.885+/-4.846 $\chi^2$/NDF: 22.9/19

Left Out: -9.001+/-1.982 $\chi^2$/NDF:61.3/24

Right Out: 11.599+/-4.840 $\chi^2$/NDF: 18.8/25

Left In: 0.925+/-2.056 $\chi^2$/NDF:29.9/22

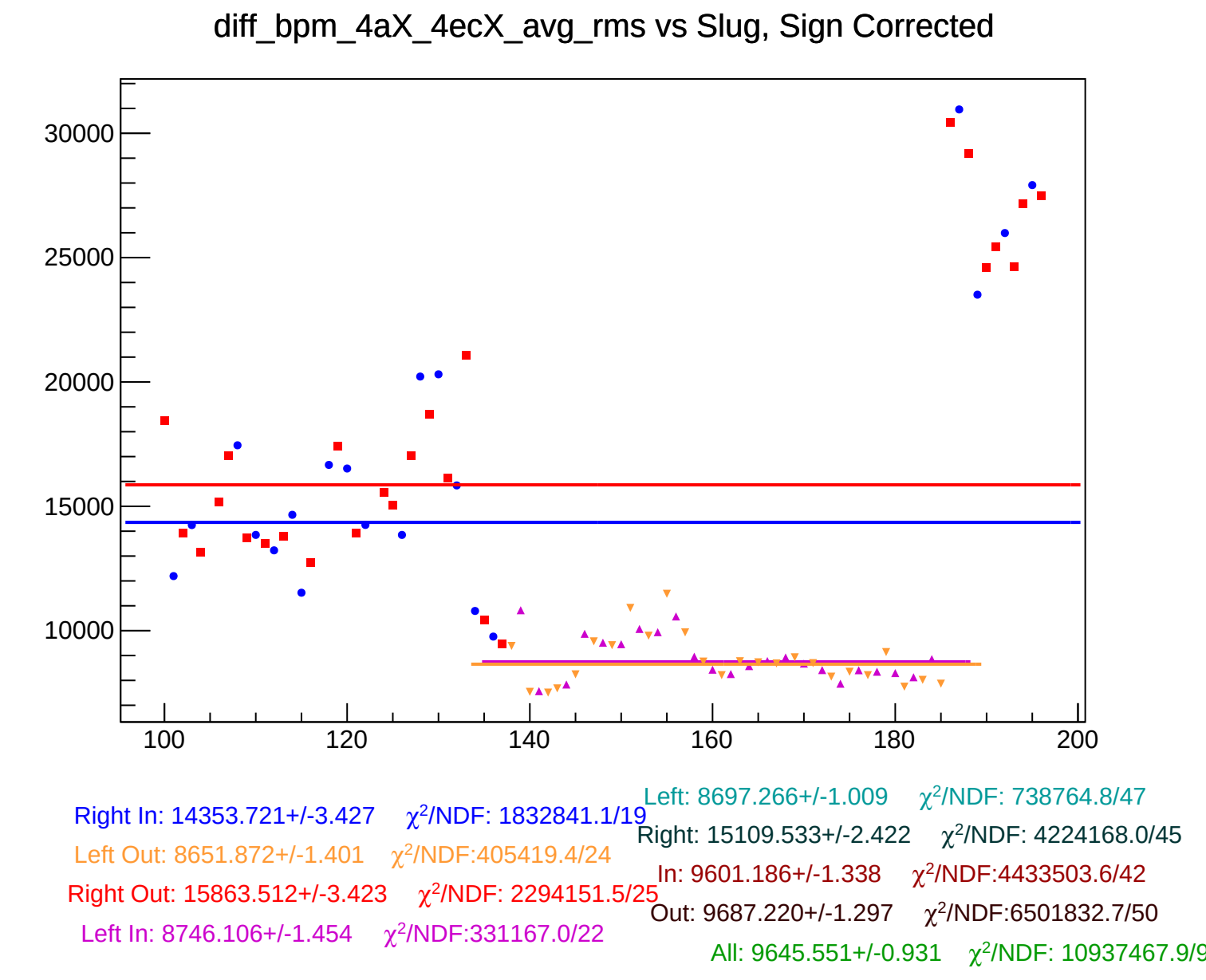
Left: -4.219+/-1.427 $\chi^2$/NDF: 103.2/47

Right: 1.370+/-3.425 $\chi^2$/NDF: 50.6/45

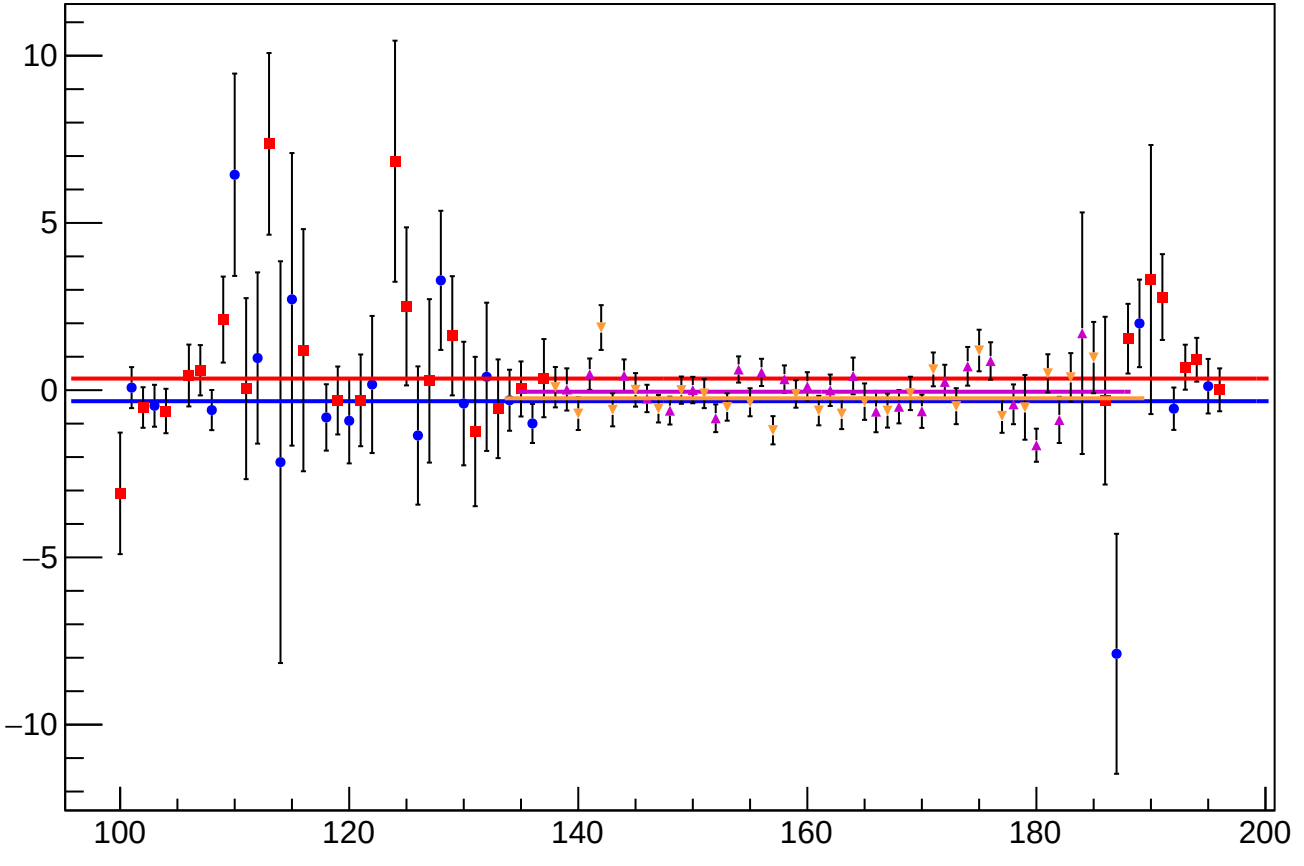
In: -0.571+/-1.892 $\chi^2$/NDF:56.2/42

Out: -6.043+/-1.834 $\chi^2$/NDF:95.6/50

All: -3.393+/-1.317 $\chi^2$/NDF: 156.0/93


diff_bpm_4aX_4ecX_avg_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
100
120
140
160
180
200
Right In: 14353.721+/-3.427 χ²/NDF: 1832841.1/19
Left Out: 8651.872+/-1.401 χ²/NDF:405419.4/24
Right Out: 15863.512+/-3.423 χ²/NDF: 2294151.5/25
Left In: 8746.106+/-1.454 χ²/NDF:331167.0/22
Left: 8697.266+/-1.009 χ²/NDF: 738764.8/47
Right: 15109.533+/-2.422 χ²/NDF: 4224168.0/45
In: 9601.186+/-1.338 χ²/NDF:4433503.6/42
Out: 9687.220+/-1.297 χ²/NDF:6501832.7/50
All: 9645.551+/-0.931 χ²/NDF: 10937467.9/9

# diff_bpm_4aX_4ecX_dd_mean vs Slug, Sign Corrected




Right In: -0.330+/-0.224 $\chi^2$/NDF: 19.7/19

Left Out: -0.242+/-0.100 $\chi^2$/NDF:34.3/24

Right Out: 0.347+/-0.208 $\chi^2$/NDF: 29.5/25

Left In: -0.047+/-0.102 $\chi^2$/NDF:35.1/22

Left: -0.146+/-0.071 $\chi^2$/NDF: 71.2/47

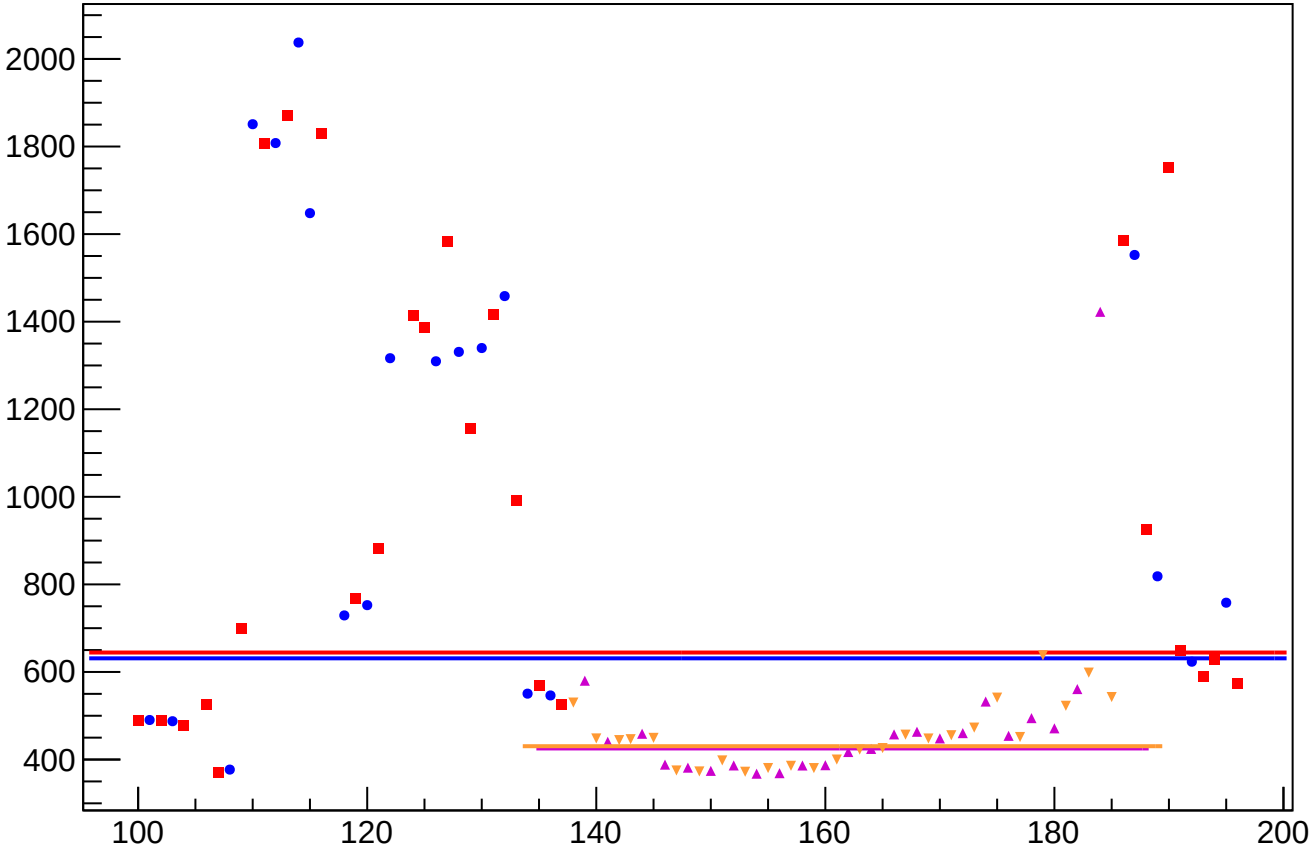
Right: 0.033+/-0.153 $\chi^2$/NDF: 54.2/45

In: -0.095+/-0.093 $\chi^2$/NDF:56.1/42

Out: -0.132+/-0.090 $\chi^2$/NDF:70.3/50

All: -0.114+/-0.065 $\chi^2$/NDF: 126.5/93

# diff_bpm_4aX_4ecX_dd_rms vs Slug, Sign Corrected




Right In: 631.116+/-0.158 $\chi^2$/NDF: 3090598.5/19

Left Out: 430.437+/-0.071 $\chi^2$/NDF:648114.1/24

Right Out: 644.381+/-0.147 $\chi^2$/NDF: 3409786.4/25

Left In: 425.312+/-0.072 $\chi^2$/NDF:716953.2/22

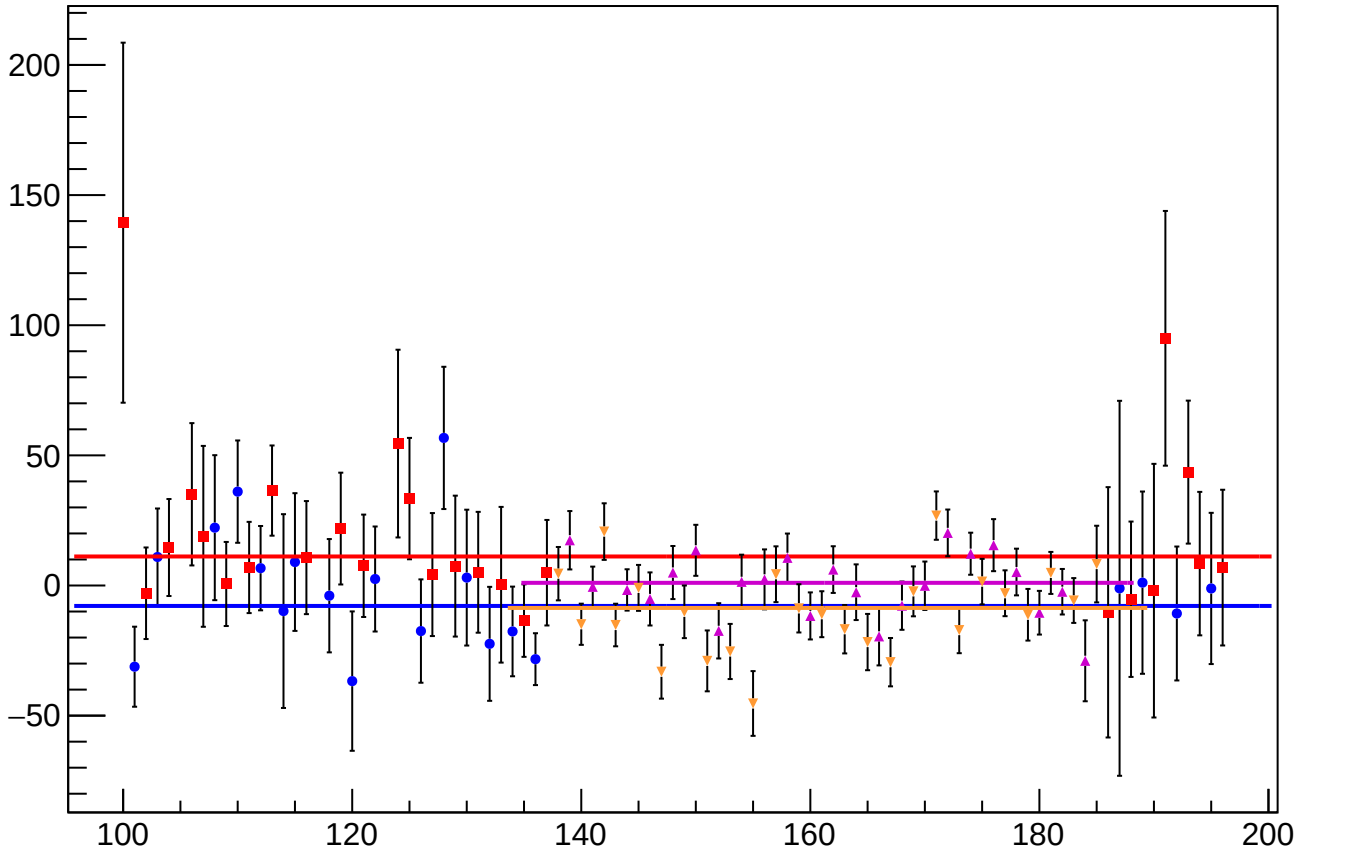
Left: 427.910+/-0.050 $\chi^2$/NDF: 1367648.1/47

Right: 638.221+/-0.108 $\chi^2$/NDF: 6504146.2/45

In: 460.453+/-0.065 $\chi^2$/NDF:5209233.6/42

Out: 470.604+/-0.064 $\chi^2$/NDF:5769402.2/50

All: 465.650+/-0.046 $\chi^2$/NDF: 10990965.0/93




Right In: -7.854+/-4.589 $\chi^2$/NDF: 23.3/19

Left Out: -8.623+/-1.913 $\chi^2$/NDF:61.6/24

Right Out: 11.150+/-4.552 $\chi^2$/NDF: 18.7/25

Left In: 1.027+/-1.987 $\chi^2$/NDF:29.8/22

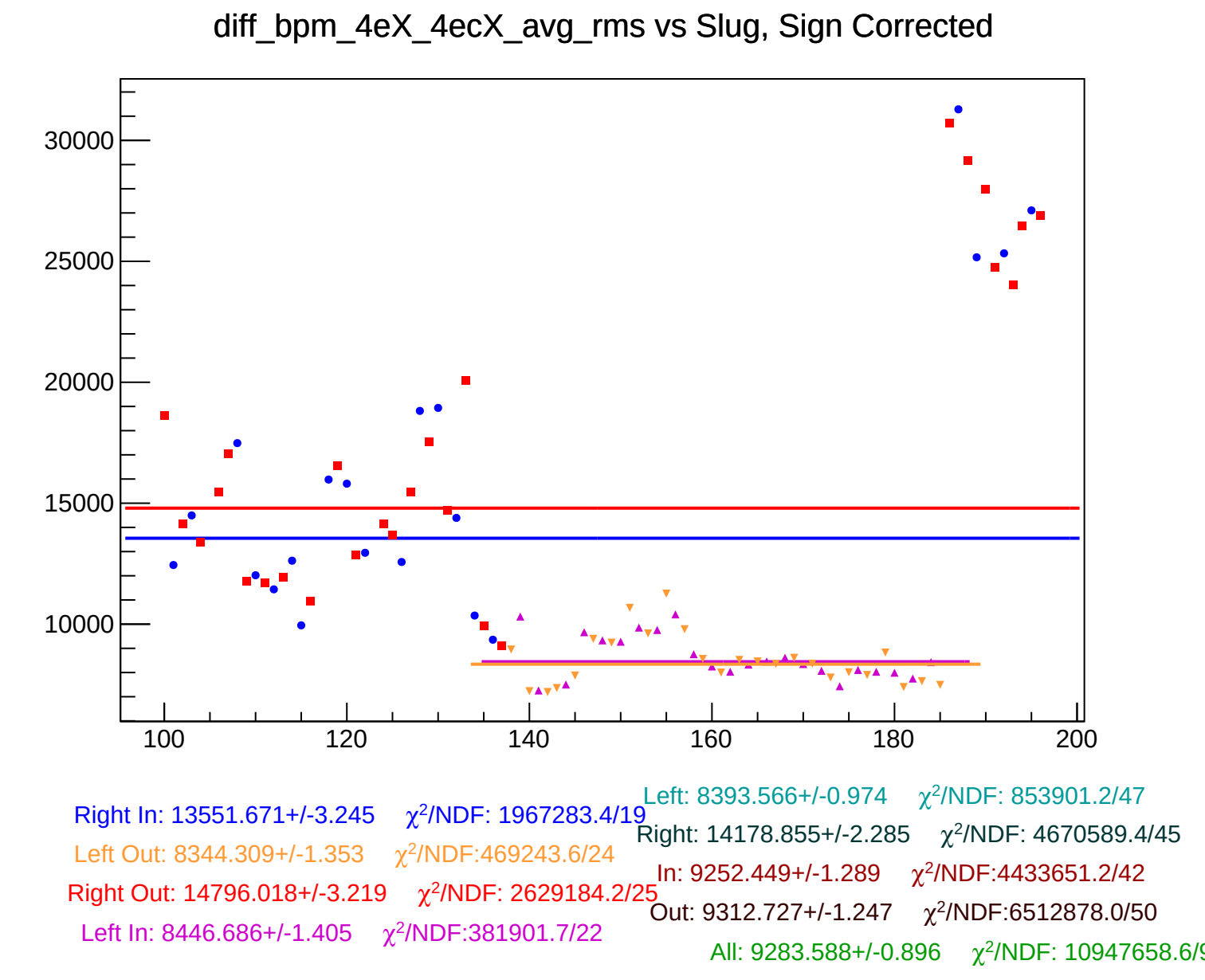
Left: -3.980+/-1.378 $\chi^2$/NDF: 103.6/47

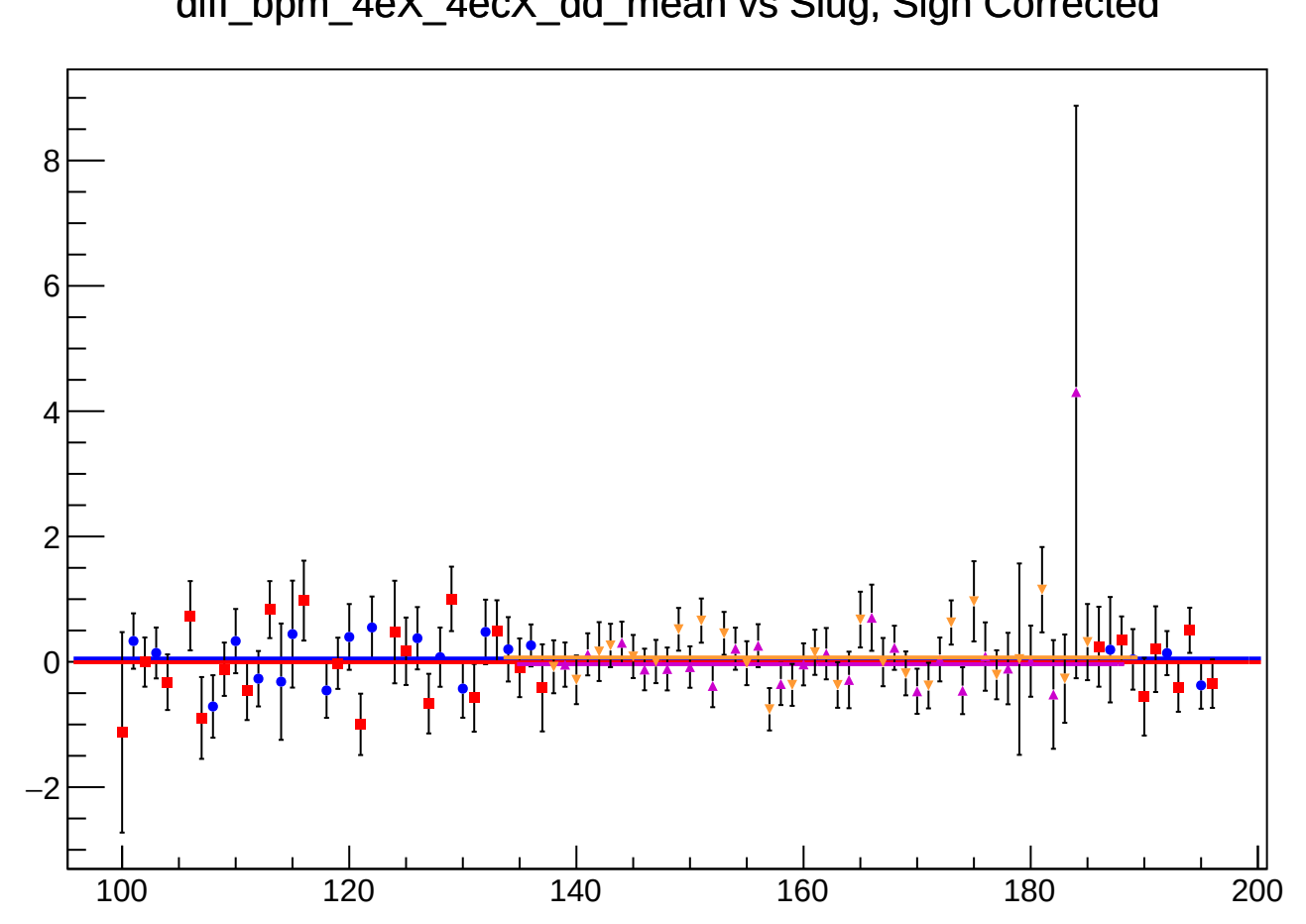
Right: 1.725+/-3.232 $\chi^2$/NDF: 50.6/45

In: -0.375+/-1.823 $\chi^2$/NDF:56.2/42

Out: -5.655+/-1.764 $\chi^2$/NDF:96.3/50

All: -3.102+/-1.268 $\chi^2$/NDF: 156.8/93


diff_bpm_4eX_4ecX_avg_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
100
120
140
160
180
200
Right In: 13551.671+/-3.245 χ²/NDF: 1967283.4/19
Left Out: 8344.309+/-1.353 χ²/NDF:469243.6/24
Right Out: 14796.018+/-3.219 χ²/NDF: 2629184.2/25
Left In: 8446.686+/-1.405 χ²/NDF:381901.7/22
Left: 8393.566+/-0.974 χ²/NDF: 853901.2/47
Right: 14178.855+/-2.285 χ²/NDF: 4670589.4/45
In: 9252.449+/-1.289 χ²/NDF:4433651.2/42
Out: 9312.727+/-1.247 χ²/NDF:6512878.0/50
All: 9283.588+/-0.896 χ²/NDF: 10947658.6/9




Right In: 0.053+/-0.105 $\chi^2$/NDF: 10.8/19

Left Out: 0.069+/-0.079 $\chi^2$/NDF:28.2/24

Right Out: -0.005+/-0.096 $\chi^2$/NDF: 30.0/25

Left In: -0.037+/-0.081 $\chi^2$/NDF:11.7/22

Left: 0.017+/-0.057 $\chi^2$/NDF: 40.8/47

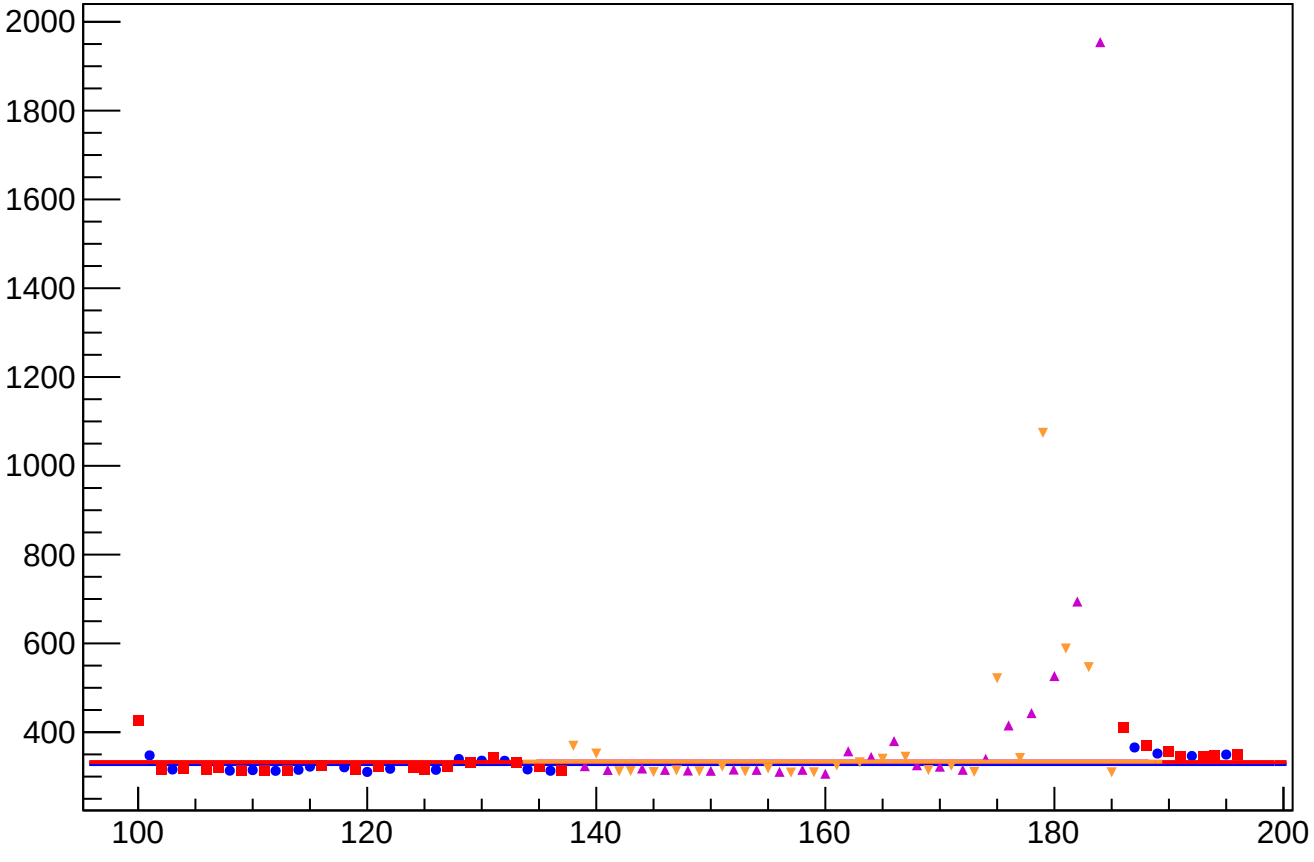
Right: 0.021+/-0.071 $\chi^2$/NDF: 41.0/45

In: -0.004+/-0.064 $\chi^2$/NDF:23.0/42

Out: 0.039+/-0.061 $\chi^2$/NDF:58.6/50

All: 0.019+/-0.044 $\chi^2$/NDF: 81.8/93

# diff_bpm_4eX_4ecX_dd_rms vs Slug, Sign Corrected




Right In: 328.285+/-0.074 $\chi^2$/NDF: 44782.6/19

Left Out: 333.783+/-0.056 $\chi^2$/NDF:1217257.0/24

Right Out: 332.717+/-0.068 $\chi^2$/NDF: 97873.5/25

Left In: 333.979+/-0.057 $\chi^2$/NDF:1050984.2/22

Left: 333.879+/-0.040 $\chi^2$/NDF: 2268247.2/47

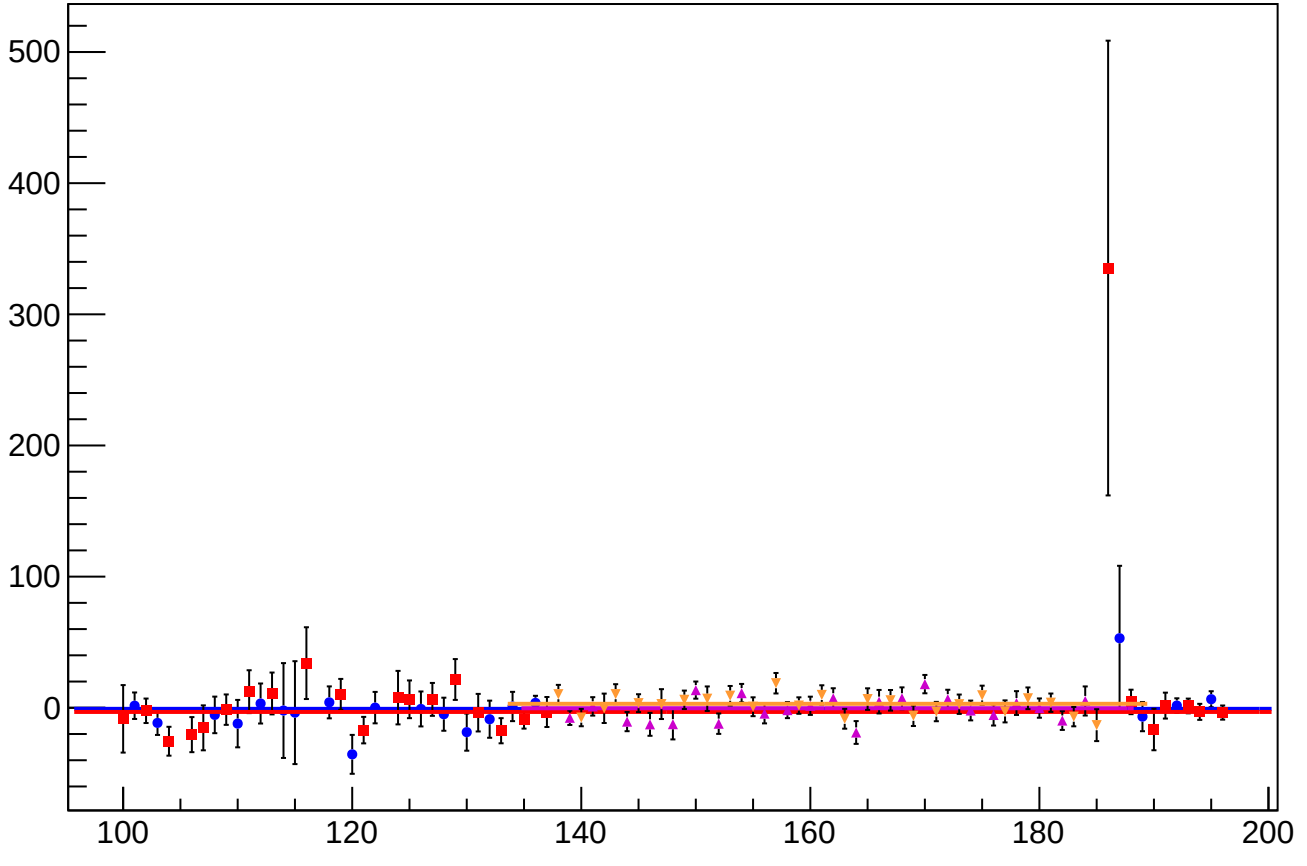
Right: 330.694+/-0.050 $\chi^2$/NDF: 144582.3/45

In: 331.865+/-0.045 $\chi^2$/NDF:1099444.5/42

Out: 333.355+/-0.043 $\chi^2$/NDF:1315276.9/50

All: 332.646+/-0.031 $\chi^2$/NDF: 2415286.6/93

# diff_bpm_4aY_4acY_avg_mean vs Slug, Sign Corrected




Right In: -0.810+/-2.319 $\chi^2$/NDF: 13.3/19

Left Out: 3.023+/-1.542 $\chi^2$/NDF:20.3/24

Right Out: -3.172+/-2.024 $\chi^2$/NDF: 25.9/25

Left In: -0.351+/-1.568 $\chi^2$/NDF:33.8/22

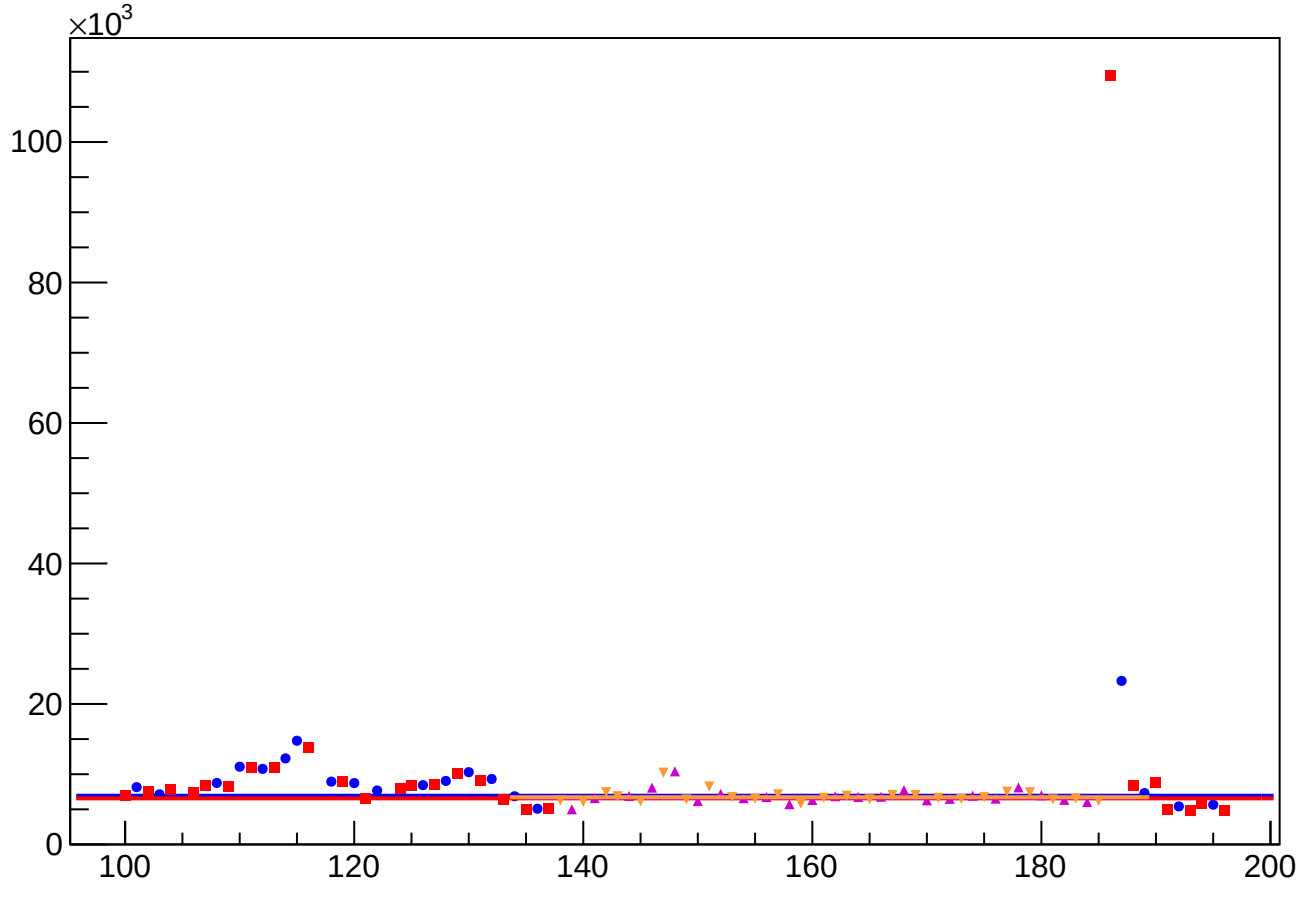
Left: 1.365+/-1.099 $\chi^2$/NDF: 56.5/47

Right: -2.151+/-1.525 $\chi^2$/NDF: 39.8/45

In: -0.495+/-1.299 $\chi^2$/NDF:47.1/42

Out: 0.749+/-1.226 $\chi^2$/NDF:52.2/50

All: 0.162+/-0.892 $\chi^2$/NDF: 99.7/93




Right In: 6934.614+/-1.640 $\chi^2$/NDF: 1409364.7/19

Left Out: 6722.984+/-1.090 $\chi^2$/NDF:403317.7/24

Right Out: 6561.248+/-1.431 $\chi^2$/NDF: 2318776.9/25

Left In: 6632.723+/-1.109 $\chi^2$/NDF:629490.9/22

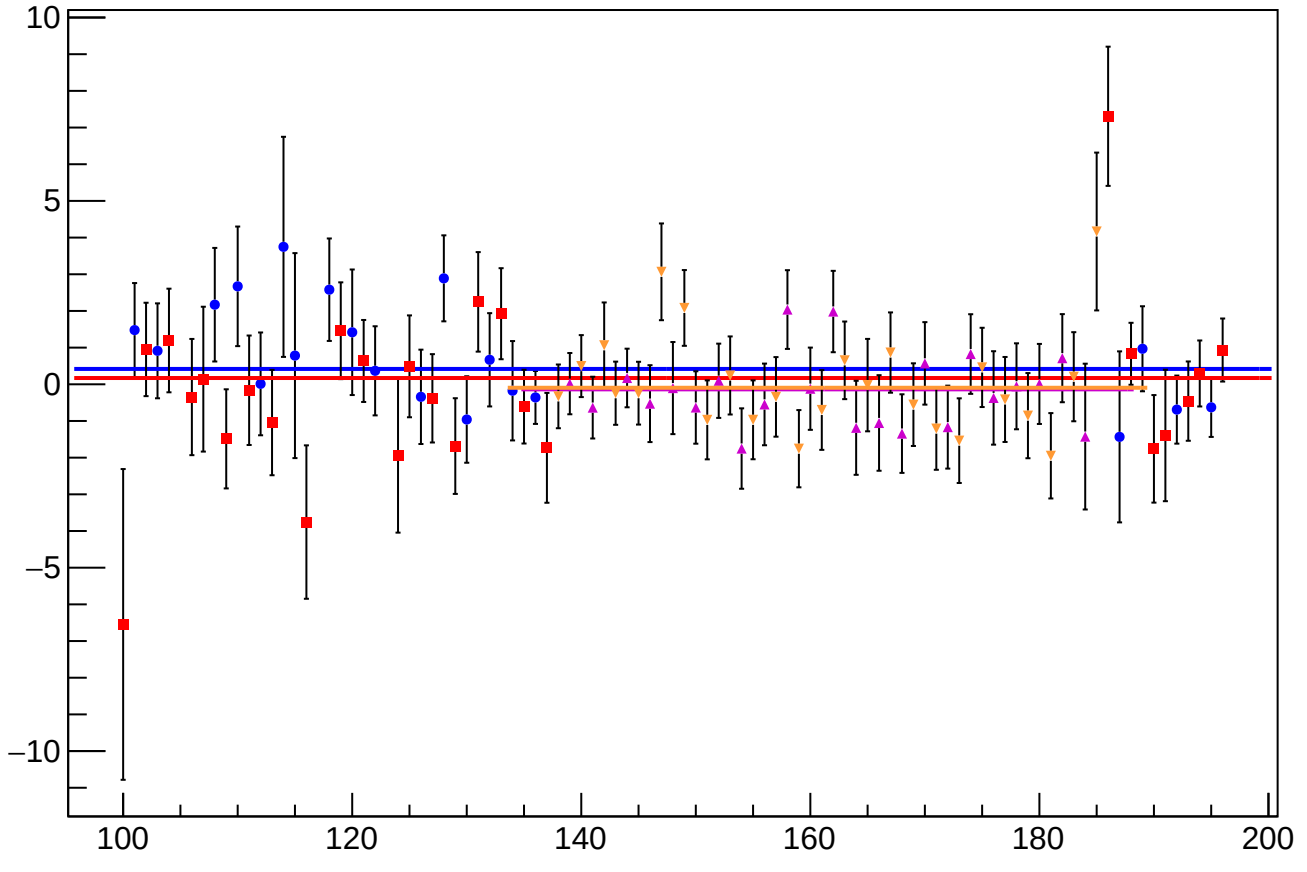
Left: 6678.628+/-0.777 $\chi^2$/NDF: 1036177.6/47

Right: 6722.690+/-1.078 $\chi^2$/NDF: 3757565.2/45

In: 6727.460+/-0.919 $\chi^2$/NDF:2062111.0/42

Out: 6663.608+/-0.867 $\chi^2$/NDF:2730175.8/50

All: 6693.697+/-0.631 $\chi^2$/NDF: 4794841.4/93




Right In: 0.419+/-0.277 $\chi^2$/NDF: 19.6/19

Left Out: -0.095+/-0.215 $\chi^2$/NDF:27.3/24

Right Out: 0.171+/-0.254 $\chi^2$/NDF: 38.7/25

Left In: -0.138+/-0.225 $\chi^2$/NDF:16.5/22

Left: -0.115+/-0.156 $\chi^2$/NDF: 43.8/47

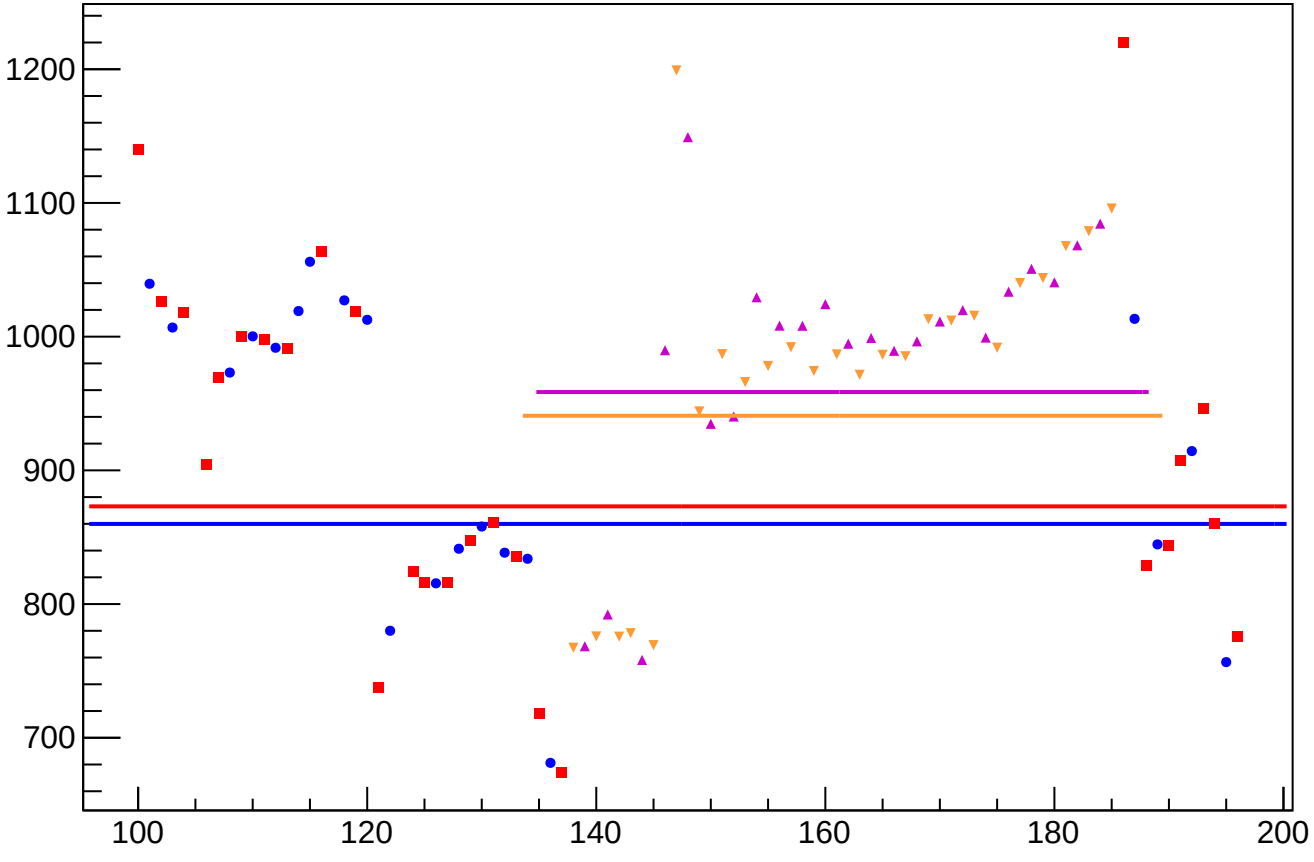
Right: 0.284+/-0.187 $\chi^2$/NDF: 58.7/45

In: 0.084+/-0.175 $\chi^2$/NDF:38.5/42

Out: 0.016+/-0.164 $\chi^2$/NDF:66.7/50

All: 0.048+/-0.120 $\chi^2$/NDF: 105.2/93

# diff_bpm_4aY_4acY_dd_rms vs Slug, Sign Corrected




Right In: 859.933+/-0.196 $\chi^2$/NDF: 352350.0/19

Left Out: 940.844+/-0.152 $\chi^2$/NDF:568776.0/24

Right Out: 873.074+/-0.180 $\chi^2$/NDF: 382339.7/25

Left In: 958.578+/-0.159 $\chi^2$/NDF:456824.8/22

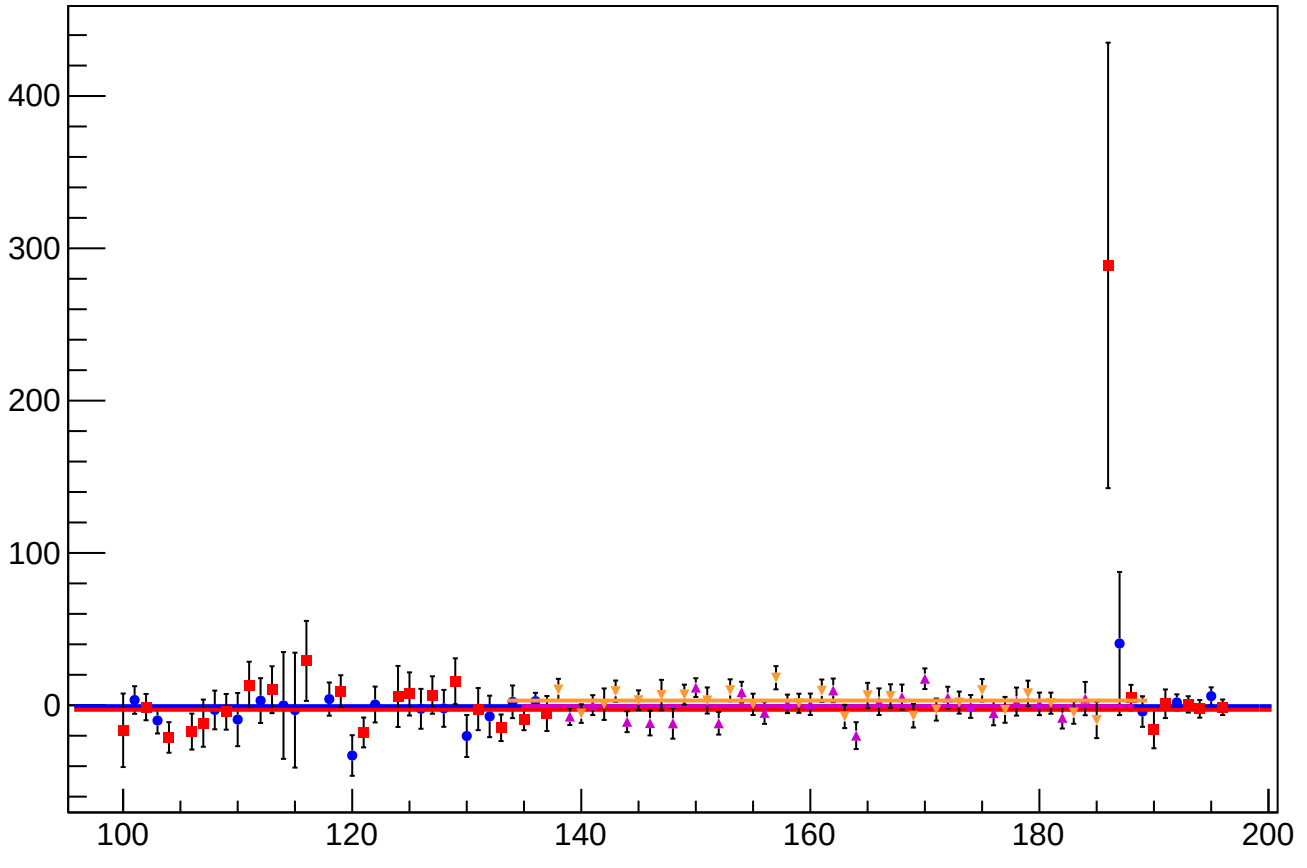
Left: 949.310+/-0.110 $\chi^2$/NDF: 1032074.6/47

Right: 867.063+/-0.132 $\chi^2$/NDF: 737132.4/45

In: 919.288+/-0.124 $\chi^2$/NDF:961828.0/42

Out: 912.536+/-0.116 $\chi^2$/NDF:1033831.8/50

All: 915.704+/-0.085 $\chi^2$/NDF: 1997244.0/93




Right In: -0.593+/-2.210 $\chi^2$/NDF: 13.0/19

Left Out: 3.099+/-1.500 $\chi^2$/NDF:18.6/24

Right Out: -2.979+/-1.914 $\chi^2$/NDF: 24.5/25

Left In: -0.519+/-1.535 $\chi^2$/NDF:32.0/22

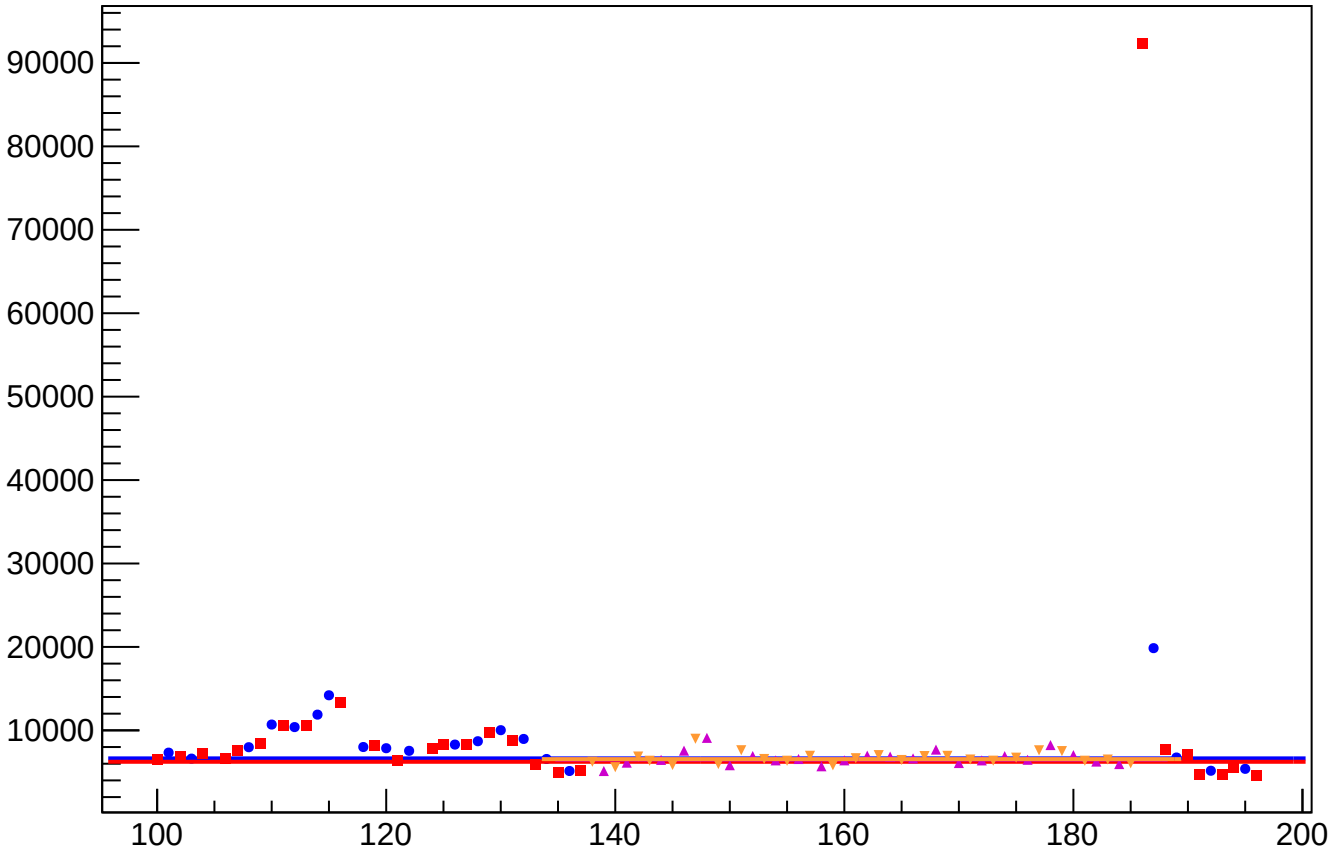
Left: 1.331+/-1.073 $\chi^2$/NDF: 53.4/47

Right: -1.956+/-1.447 $\chi^2$/NDF: 38.2/45

In: -0.543+/-1.261 $\chi^2$/NDF:45.1/42

Out: 0.786+/-1.181 $\chi^2$/NDF:49.4/50

All: 0.165+/-0.862 $\chi^2$/NDF: 95.0/93




Right In: 6640.394+/-1.563 $\chi^2$/NDF: 1289188.6/19

Left Out: 6548.897+/-1.061 $\chi^2$/NDF:366072.4/24

Right Out: 6232.719+/-1.354 $\chi^2$/NDF: 2247889.9/25

Left In: 6505.057+/-1.085 $\chi^2$/NDF:515496.8/22

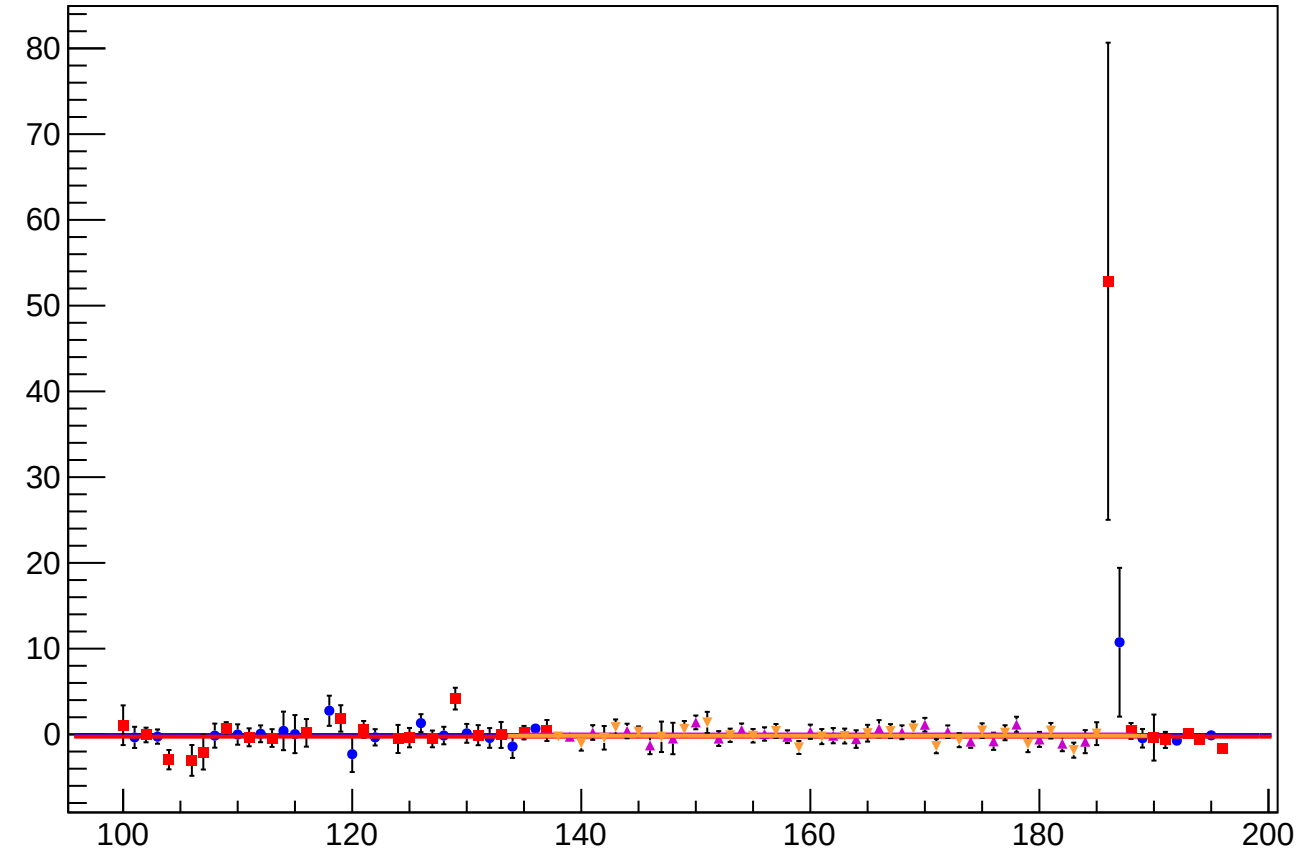
Left: 6527.477+/-0.759 $\chi^2$/NDF: 882403.7/47

Right: 6407.462+/-1.023 $\chi^2$/NDF: 3575960.6/45

In: 6549.091+/-0.891 $\chi^2$/NDF:1809744.9/42

Out: 6428.590+/-0.835 $\chi^2$/NDF:2647764.0/50

All: 6484.903+/-0.609 $\chi^2$/NDF: 4467242.4/93




Right In: -0.077+/-0.217 $\chi^2$/NDF: 11.8/19

Left Out: -0.162+/-0.172 $\chi^2$/NDF:19.0/24

Right Out: -0.263+/-0.194 $\chi^2$/NDF: 37.6/25

Left In: -0.017+/-0.169 $\chi^2$/NDF:15.2/22

Left: -0.089+/-0.121 $\chi^2$/NDF: 34.6/47

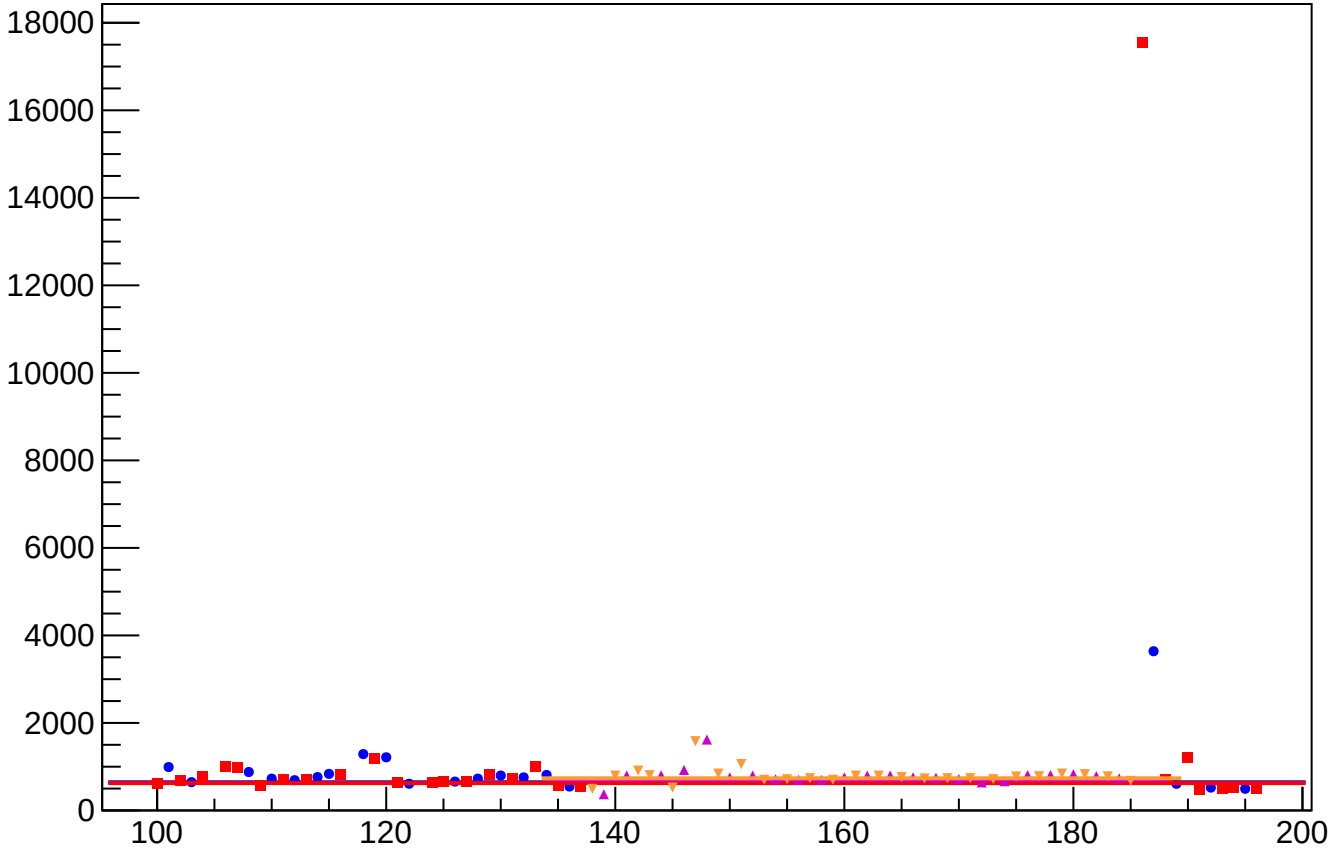
Right: -0.180+/-0.145 $\chi^2$/NDF: 49.8/45

In: -0.040+/-0.133 $\chi^2$/NDF:27.1/42

Out: -0.207+/-0.129 $\chi^2$/NDF:56.7/50

All: -0.126+/-0.093 $\chi^2$/NDF: 84.6/93

# diff_bpm_4aY_4eY_dd_rms vs Slug, Sign Corrected




Right In: 643.685+/-0.153 $\chi^2$/NDF: 1328855.7/19

Left Out: 734.984+/-0.122 $\chi^2$/NDF:1339748.9/24

Right Out: 625.029+/-0.137 $\chi^2$/NDF: 1898409.3/25

Left In: 694.150+/-0.120 $\chi^2$/NDF:2225094.5/22

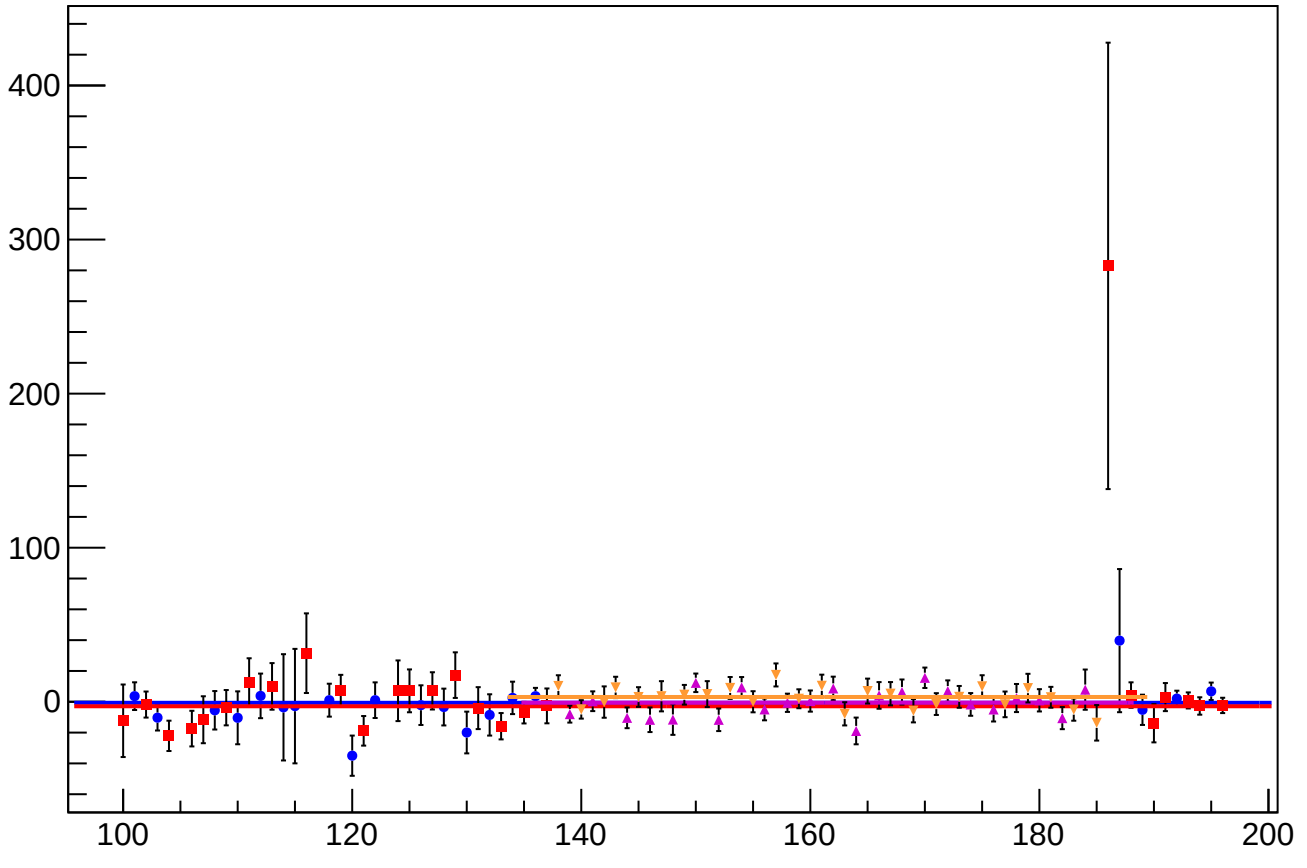
Left: 714.202+/-0.085 $\chi^2$/NDF: 3622132.3/47

Right: 633.348+/-0.102 $\chi^2$/NDF: 3235482.6/45

In: 675.049+/-0.094 $\chi^2$/NDF:3621393.9/42

Out: 686.652+/-0.091 $\chi^2$/NDF:3596938.3/50

All: 681.047+/-0.066 $\chi^2$/NDF: 7226165.7/93




Right In: -0.661+/-2.169 $\chi^2$/NDF: 15.3/19

Left Out: 3.111+/-1.476 $\chi^2$/NDF:18.7/24

Right Out: -2.920+/-1.876 $\chi^2$/NDF: 25.5/25

Left In: -0.550+/-1.512 $\chi^2$/NDF:33.6/22

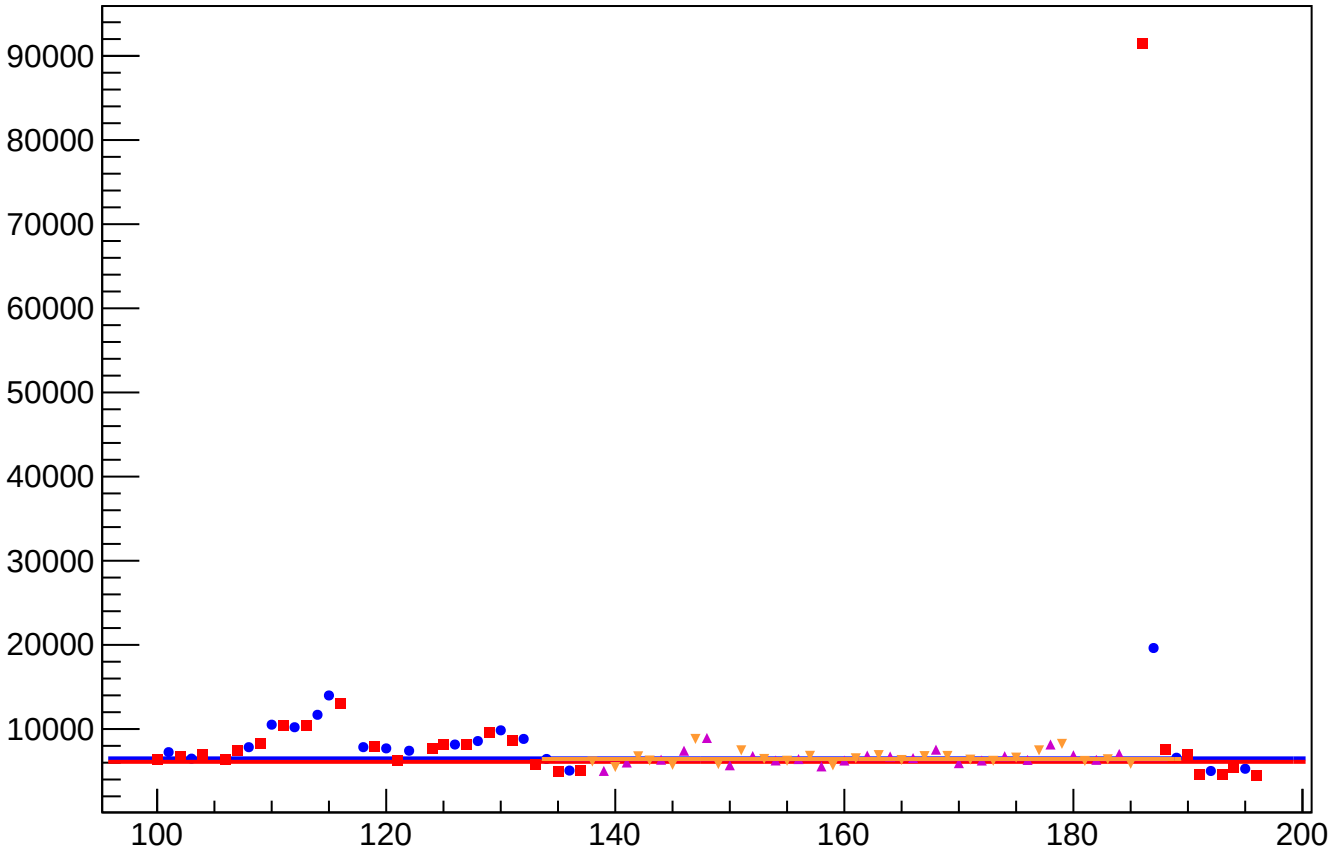
Left: 1.325+/-1.056 $\chi^2$/NDF: 55.3/47

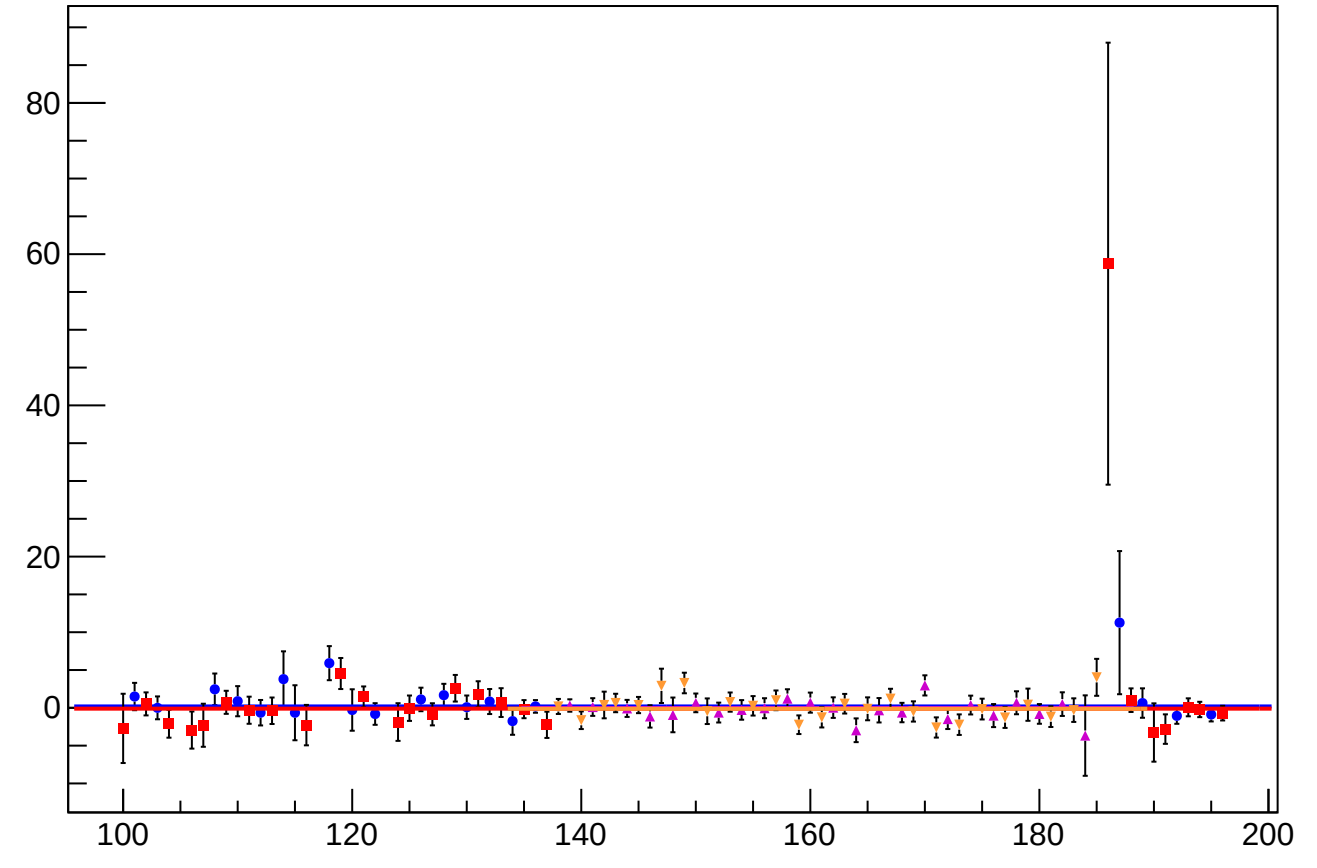
Right: -1.953+/-1.419 $\chi^2$/NDF: 41.4/45

In: -0.586+/-1.241 $\chi^2$/NDF:48.9/42

Out: 0.805+/-1.160 $\chi^2$/NDF:50.6/50

All: 0.156+/-0.847 $\chi^2$/NDF: 100.1/93


diff_bpm_4aY_4ecY_avg_rms vs Slug, Sign Corrected
90000
80000
70000
60000
50000
40000
30000
20000
10000
100
120
140
160
180
200
Right In: 6512.121+/-1.534 χ²/NDF: 1304820.2/19
Left Out: 6435.363+/-1.044 χ²/NDF:417318.3/24
Right Out: 6102.271+/-1.327 χ²/NDF: 2267324.2/25
Left In: 6405.229+/-1.069 χ²/NDF:525079.4/22
Left: 6420.661+/-0.747 χ²/NDF: 942804.2/47
Right: 6277.660+/-1.004 χ²/NDF: 3612979.2/45
In: 6440.189+/-0.877 χ²/NDF:1833166.9/42
Out: 6308.013+/-0.820 χ²/NDF:2723573.0/50
All: 6369.675+/-0.599 χ²/NDF: 4568849.7/93




Right In: 0.183+/-0.347 $\chi^2$/NDF: 16.9/19

Left Out: -0.122+/-0.273 $\chi^2$/NDF:27.0/24

Right Out: -0.109+/-0.325 $\chi^2$/NDF: 24.6/25

Left In: -0.029+/-0.279 $\chi^2$/NDF:14.4/22

Left: -0.077+/-0.195 $\chi^2$/NDF: 41.5/47

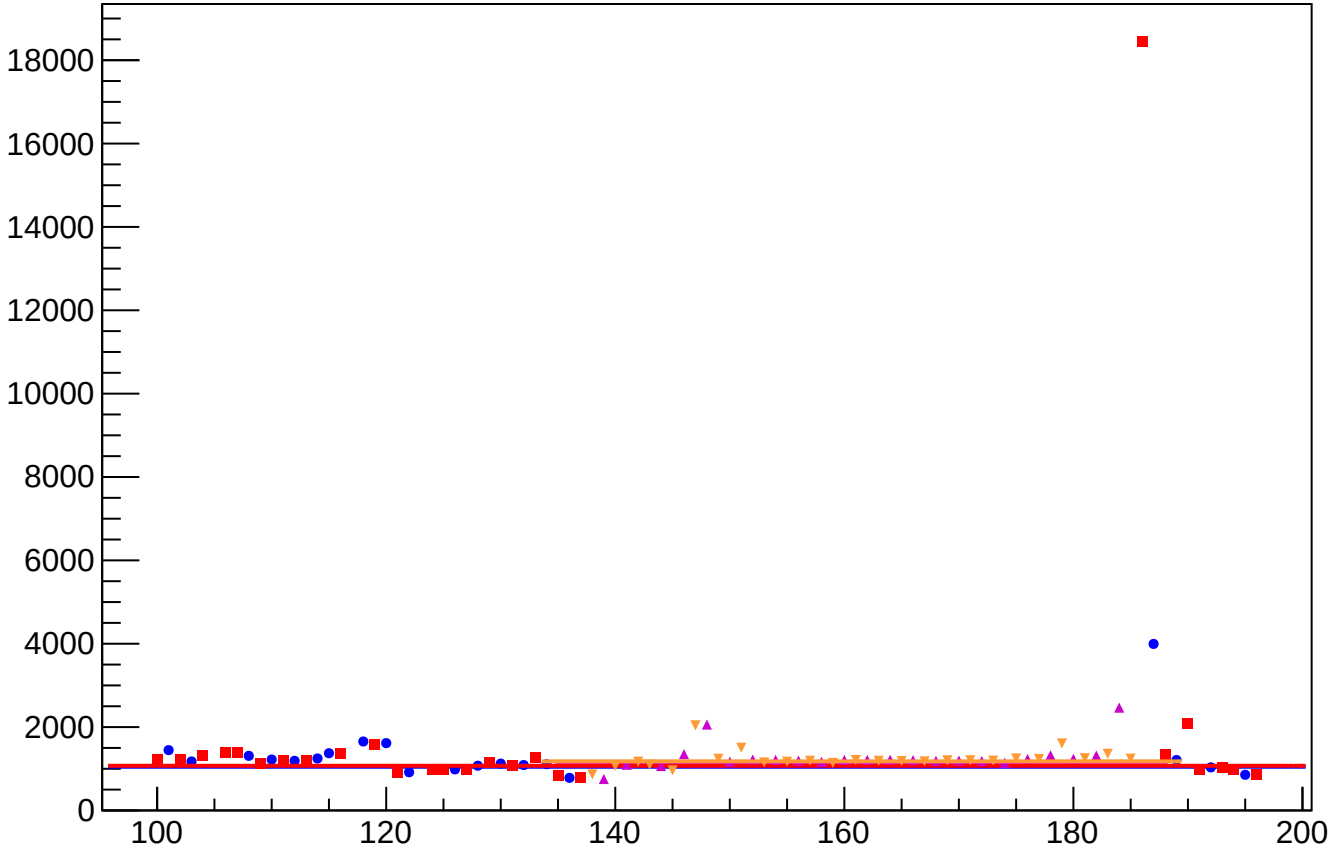
Right: 0.027+/-0.237 $\chi^2$/NDF: 41.9/45

In: 0.054+/-0.217 $\chi^2$/NDF:31.6/42

Out: -0.117+/-0.209 $\chi^2$/NDF:51.6/50

All: -0.035+/-0.151 $\chi^2$/NDF: 83.5/93

# diff_bpm_4aY_4ecY_dd_rms vs Slug, Sign Corrected




Right In: 1049.019+/-0.246 $\chi^2$/NDF: 952178.9/19

Left Out: 1177.742+/-0.193 $\chi^2$/NDF:800899.0/24

Right Out: 1071.888+/-0.230 $\chi^2$/NDF: 1507151.6/25

Left In: 1163.827+/-0.197 $\chi^2$/NDF:1052206.0/22

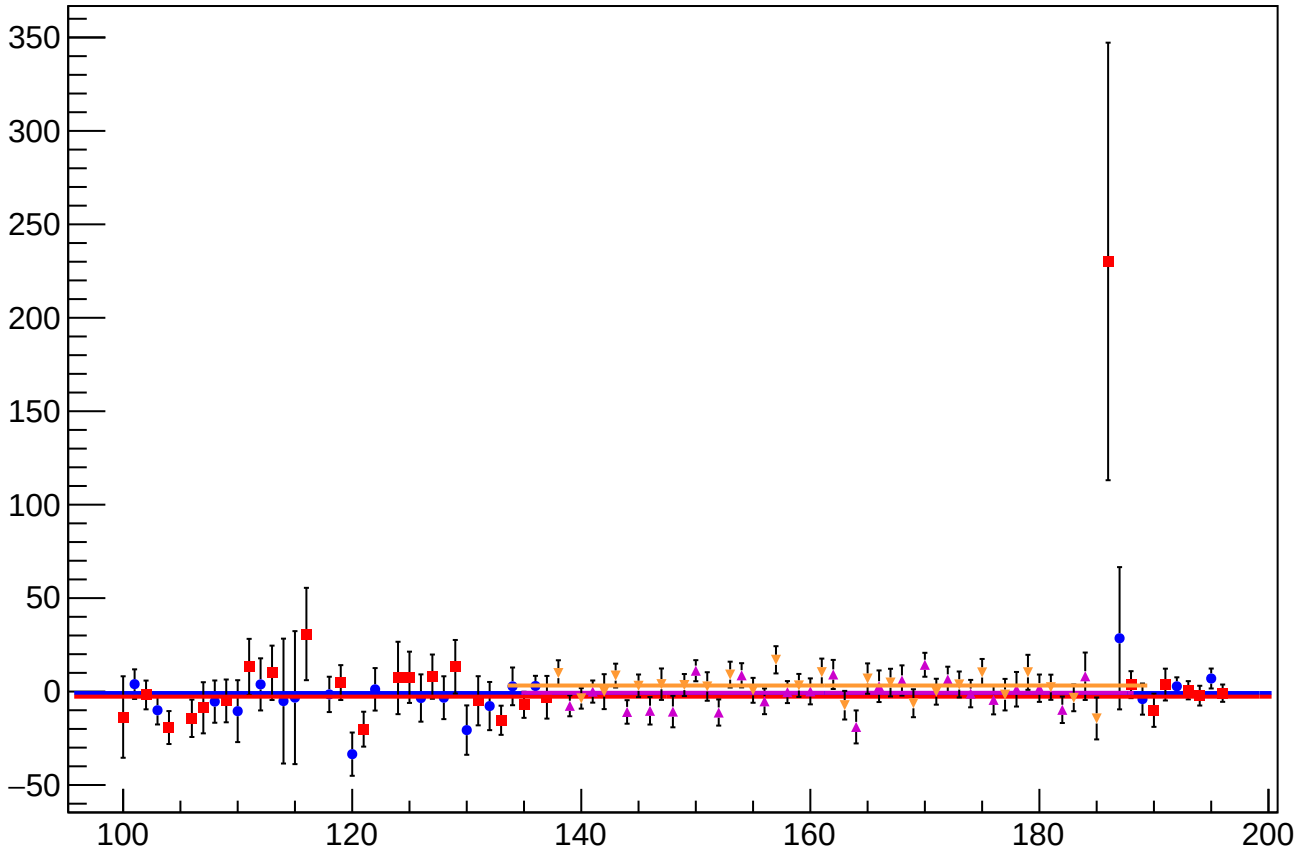
Left: 1170.916+/-0.138 $\chi^2$/NDF: 1855646.9/47

Right: 1061.211+/-0.168 $\chi^2$/NDF: 2463954.3/45

In: 1118.873+/-0.154 $\chi^2$/NDF:2137392.6/42

Out: 1133.878+/-0.148 $\chi^2$/NDF:2432310.4/50

All: 1126.660+/-0.107 $\chi^2$/NDF: 4574651.9/93




Right In: -0.791+/-2.039 $\chi^2$/NDF: 17.1/19

Left Out: 3.234+/-1.430 $\chi^2$/NDF:17.9/24

Right Out: -2.735+/-1.743 $\chi^2$/NDF: 25.8/25

Left In: -0.667+/-1.474 $\chi^2$/NDF:32.4/22

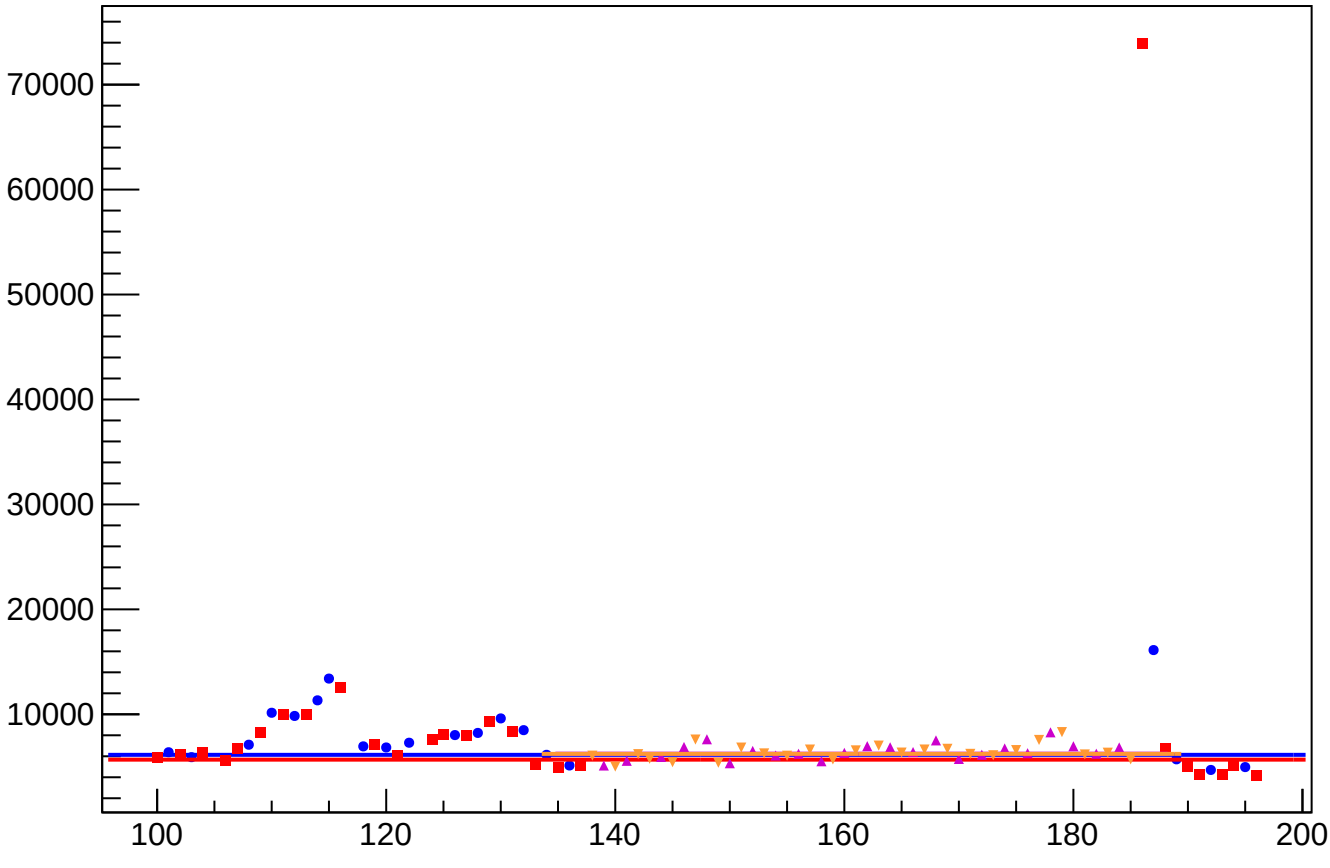
Left: 1.343+/-1.026 $\chi^2$/NDF: 53.9/47

Right: -1.914+/-1.325 $\chi^2$/NDF: 43.5/45

In: -0.709+/-1.194 $\chi^2$/NDF:49.5/42

Out: 0.833+/-1.105 $\chi^2$/NDF:50.7/50

All: 0.122+/-0.811 $\chi^2$/NDF: 101.1/93




Right In: 6137.380+/-1.442 $\chi^2$/NDF: 1253140.6/19

Left Out: 6228.654+/-1.011 $\chi^2$/NDF:470851.7/24

Right Out: 5679.448+/-1.232 $\chi^2$/NDF: 2286776.7/25

Left In: 6246.800+/-1.042 $\chi^2$/NDF:484982.9/22

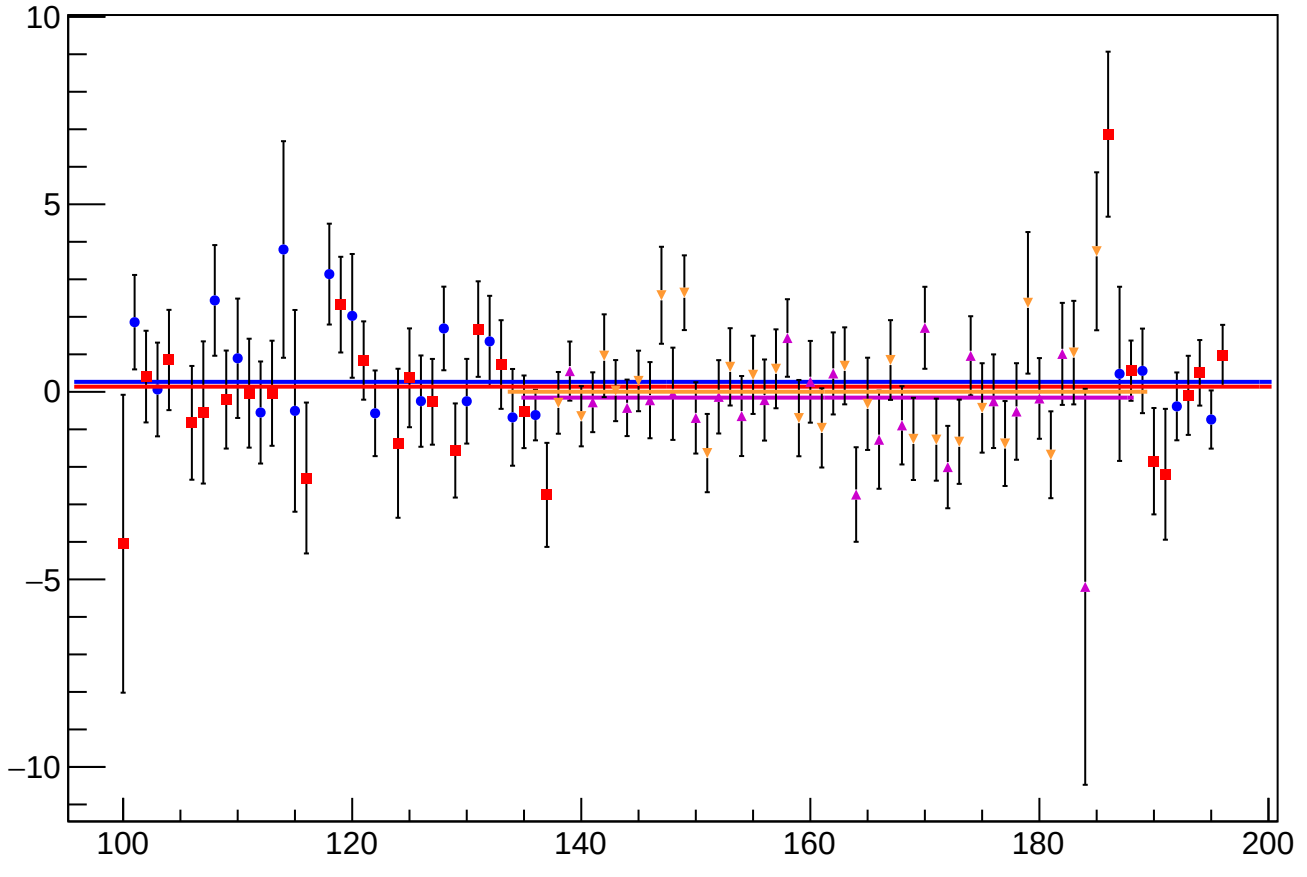
Left: 6237.452+/-0.726 $\chi^2$/NDF: 955990.8/47

Right: 5872.723+/-0.937 $\chi^2$/NDF: 3598194.1/45

In: 6209.266+/-0.845 $\chi^2$/NDF:1741905.8/42

Out: 6007.756+/-0.782 $\chi^2$/NDF:2876351.2/50

All: 6100.710+/-0.574 $\chi^2$/NDF: 4648920.6/93




Right In: 0.266+/-0.265 $\chi^2$/NDF: 19.5/19

Left Out: 0.003+/-0.212 $\chi^2$/NDF:31.6/24

Right Out: 0.138+/-0.244 $\chi^2$/NDF: 30.6/25

Left In: -0.154+/-0.221 $\chi^2$/NDF:18.4/22

Left: -0.072+/-0.153 $\chi^2$/NDF: 50.3/47

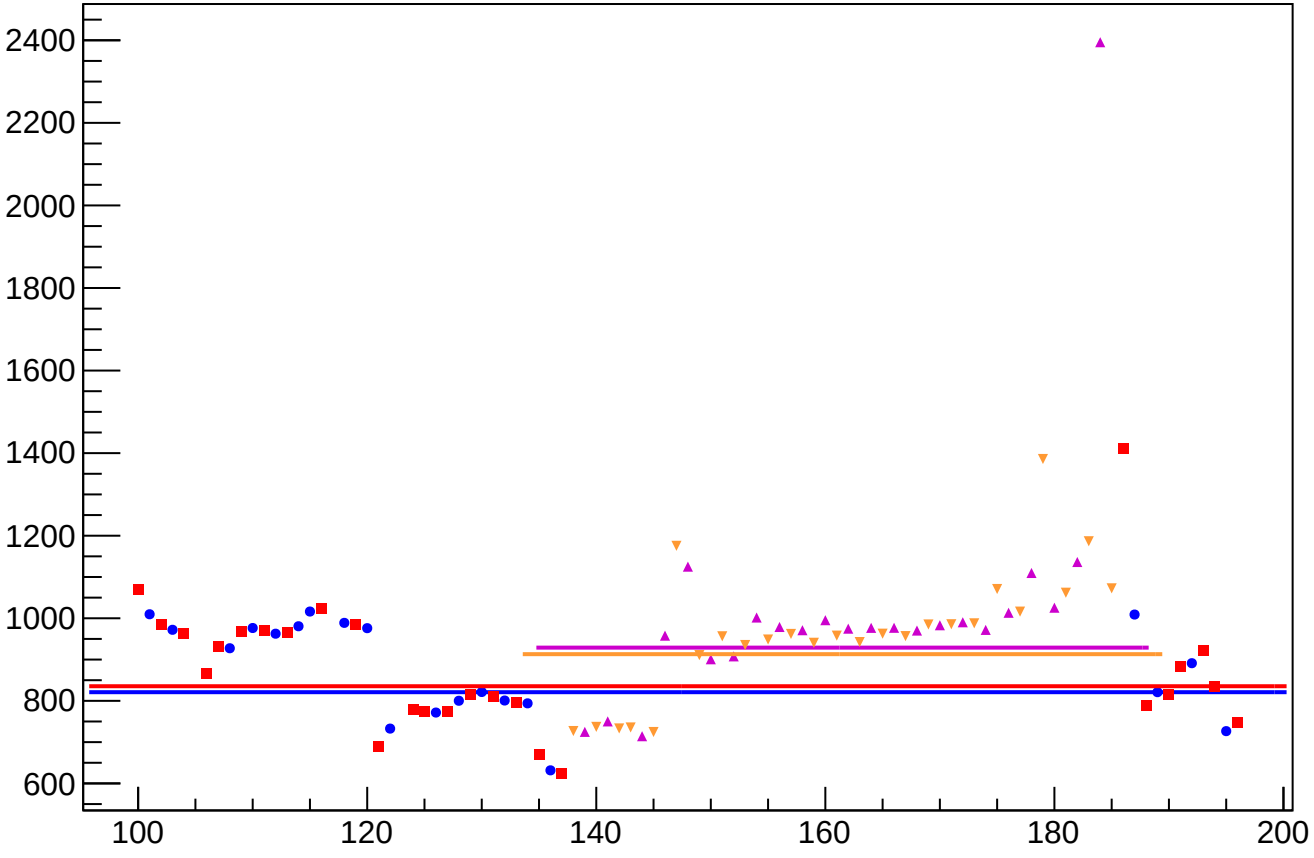
Right: 0.197+/-0.180 $\chi^2$/NDF: 50.2/45

In: 0.018+/-0.170 $\chi^2$/NDF:39.4/42

Out: 0.061+/-0.160 $\chi^2$/NDF:62.4/50

All: 0.041+/-0.116 $\chi^2$/NDF: 101.8/93

# diff_bpm_4eY_4ecY_dd_rms vs Slug, Sign Corrected




Right In: 820.963+/-0.188 $\chi^2$/NDF: 420457.4/19

Left Out: 913.070+/-0.150 $\chi^2$/NDF:889200.0/24

Right Out: 835.407+/-0.173 $\chi^2$/NDF: 502331.2/25

Left In: 928.913+/-0.156 $\chi^2$/NDF:769065.0/22

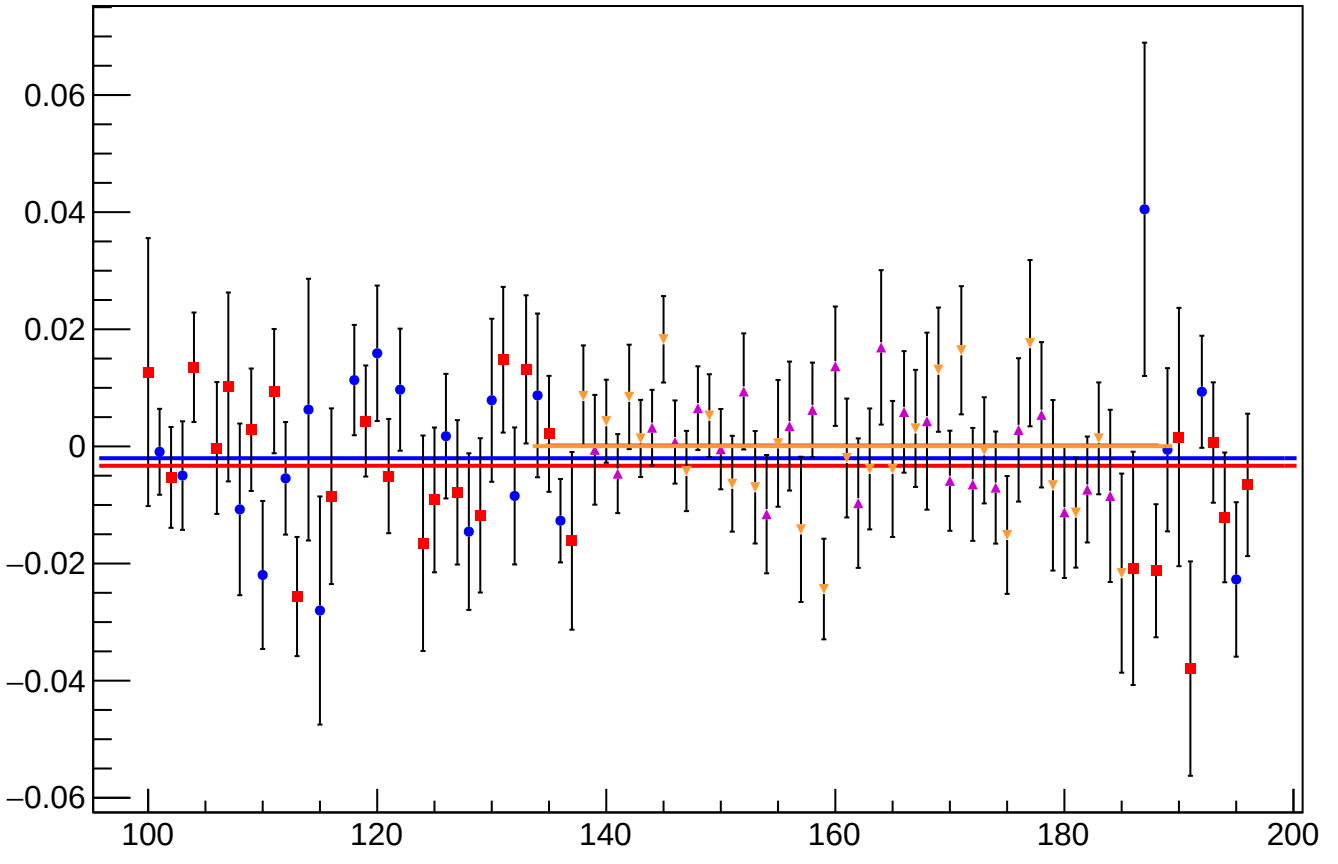
Left: 920.657+/-0.108 $\chi^2$/NDF: 1663617.7/47

Right: 828.779+/-0.127 $\chi^2$/NDF: 925997.3/45

In: 884.671+/-0.120 $\chi^2$/NDF:1384972.0/42

Out: 879.721+/-0.113 $\chi^2$/NDF:1506869.2/50

All: 882.050+/-0.082 $\chi^2$/NDF: 2892740.8/93




Right In: -0.002+/-0.003 $\chi^2$/NDF: 21.4/19

Left Out: 0.000+/-0.002 $\chi^2$/NDF:31.1/24

Right Out: -0.003+/-0.002 $\chi^2$/NDF: 25.8/25

Left In: 0.000+/-0.002 $\chi^2$/NDF:12.8/22

Left: 0.000+/-0.001 $\chi^2$/NDF: 43.9/47

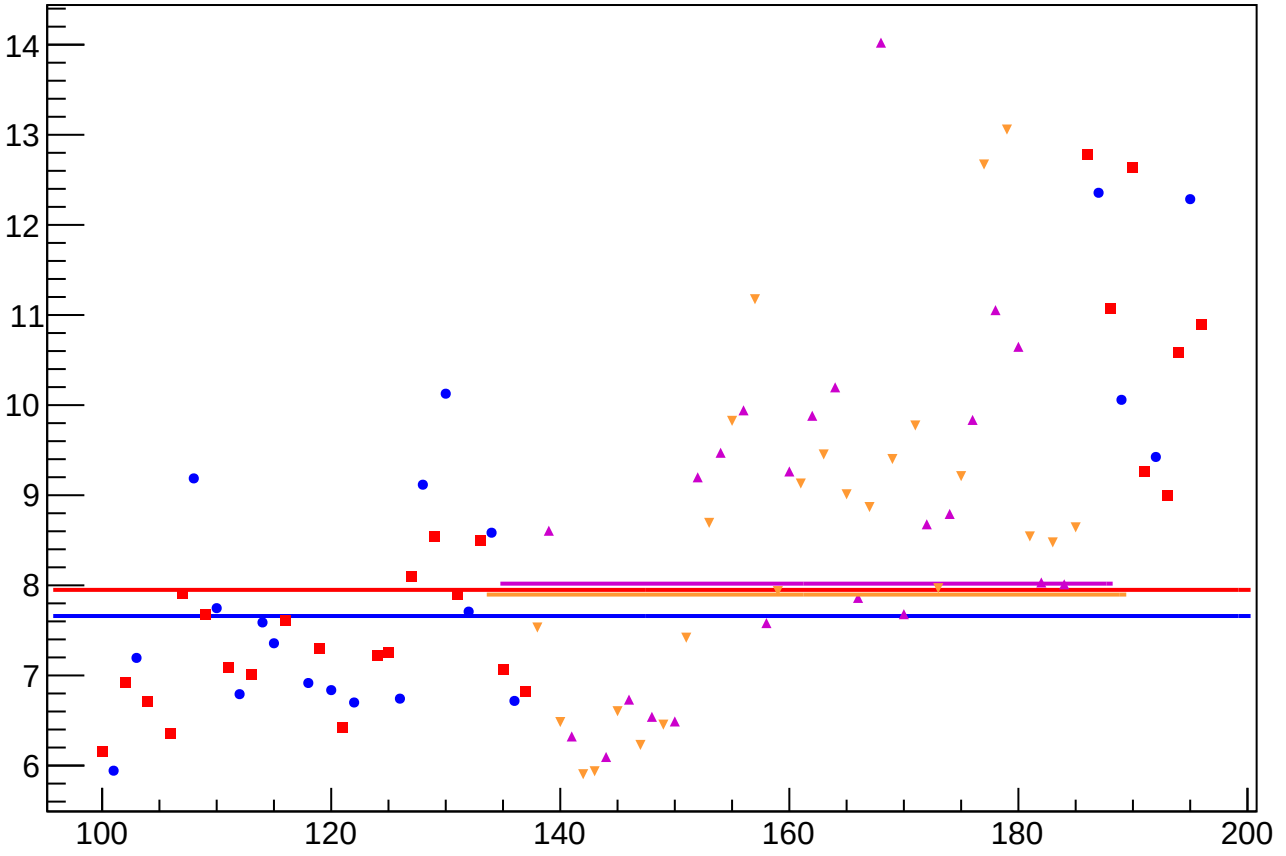
Right: -0.003+/-0.002 $\chi^2$/NDF: 47.4/45

In: -0.001+/-0.002 $\chi^2$/NDF:34.7/42

Out: -0.001+/-0.001 $\chi^2$/NDF:58.2/50

All: -0.001+/-0.001 $\chi^2$/NDF: 93.0/93

# diff_dispE_bpm12X_rms vs Slug, Sign Corrected




Right In: 7.660+/-0.002 $\chi^2$/NDF: 765679.5/19

Left Out: 7.897+/-0.001 $\chi^2$/NDF:1590867.7/24

Right Out: 7.950+/-0.002 $\chi^2$/NDF: 870936.4/25

Left In: 8.019+/-0.001 $\chi^2$/NDF:1455714.6/22

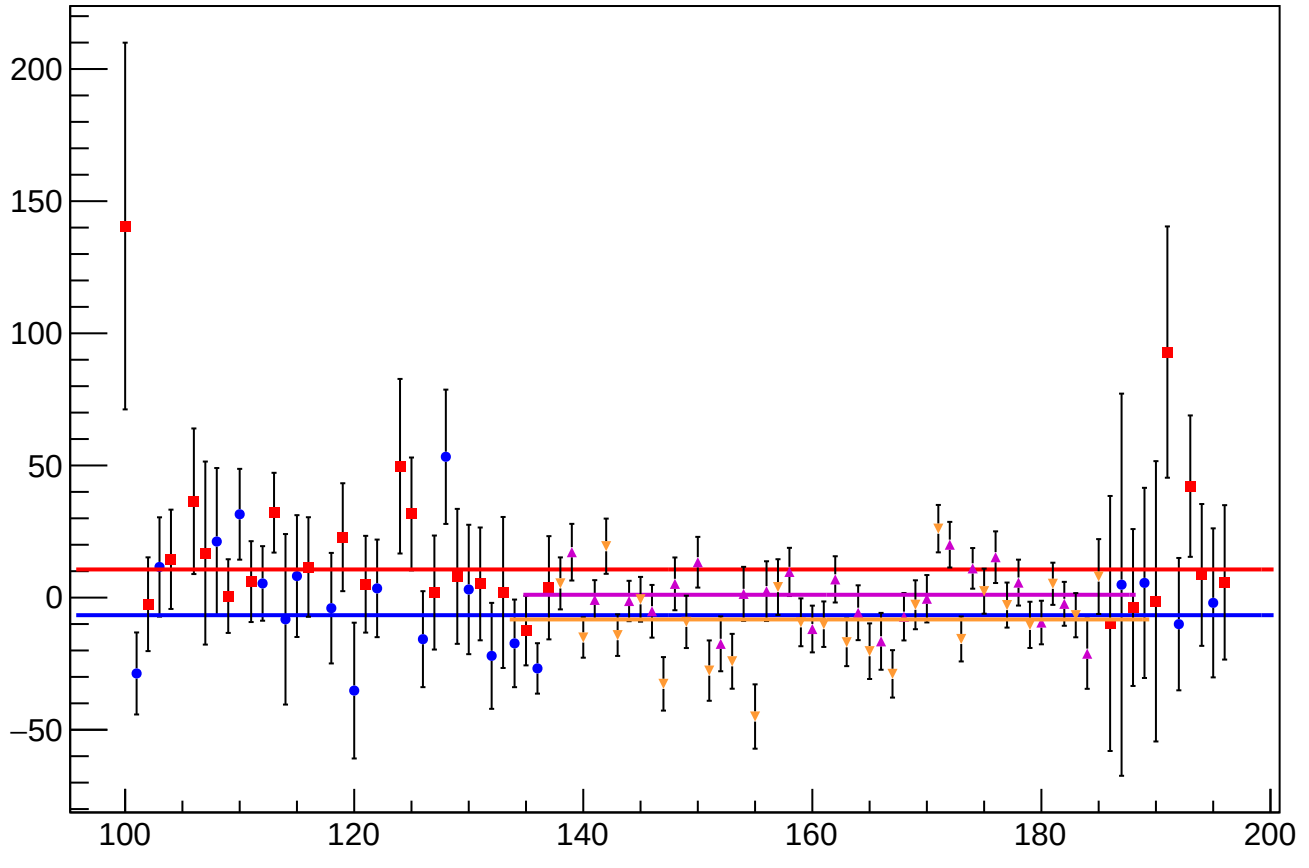
Left: 7.956+/-0.001 $\chi^2$/NDF: 3050743.5/47

Right: 7.814+/-0.001 $\chi^2$/NDF: 1650879.7/45

In: 7.886+/-0.001 $\chi^2$/NDF:2247317.7/42

Out: 7.917+/-0.001 $\chi^2$/NDF:2462416.1/50

All: 7.903+/-0.001 $\chi^2$/NDF: 4710173.9/93




Right In: -6.647+/-4.325 $\chi^2$/NDF: 23.2/19

Left Out: -8.256+/-1.849 $\chi^2$/NDF:62.2/24

Right Out: 10.656+/-4.251 $\chi^2$/NDF: 18.9/25

Left In: 1.072+/-1.921 $\chi^2$/NDF:28.8/22

Left: -3.769+/-1.332 $\chi^2$/NDF: 103.2/47

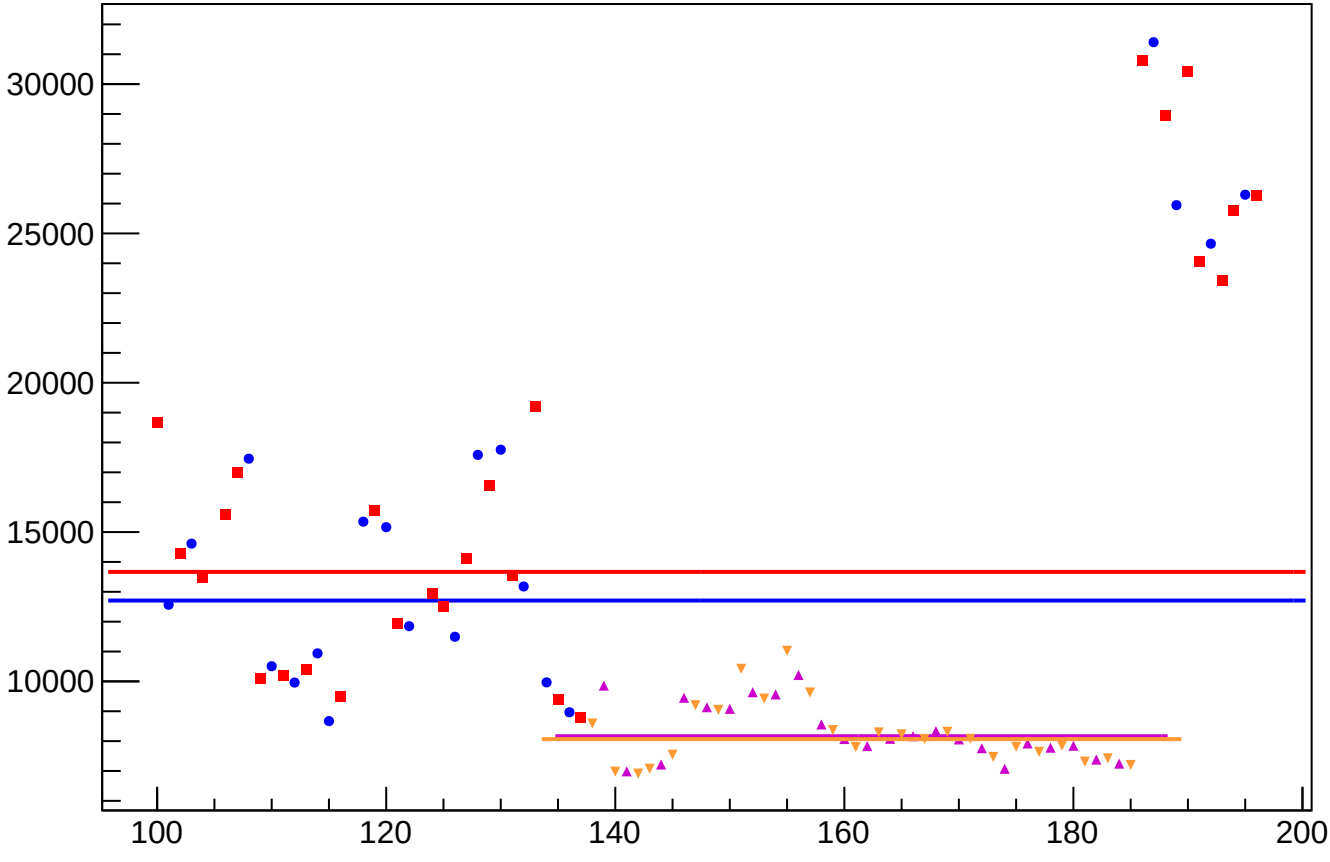
Right: 2.153+/-3.032 $\chi^2$/NDF: 50.3/45

In: -0.200+/-1.755 $\chi^2$/NDF:54.7/42

Out: -5.247+/-1.696 $\chi^2$/NDF:97.7/50

All: -2.810+/-1.220 $\chi^2$/NDF: 156.7/93

# diff_targ_positionX_rms vs Slug, Sign Corrected




Right In: 12707.105+/-3.058 $\chi^2$/NDF: 2165490.5/19

Left Out: 8066.710+/-1.308 $\chi^2$/NDF:498146.1/24

Right Out: 13666.461+/-3.006 $\chi^2$/NDF: 3072169.2/25

Left In: 8163.472+/-1.358 $\chi^2$/NDF:432350.3/22

Left: 8113.259+/-0.942 $\chi^2$/NDF: 933130.1/47

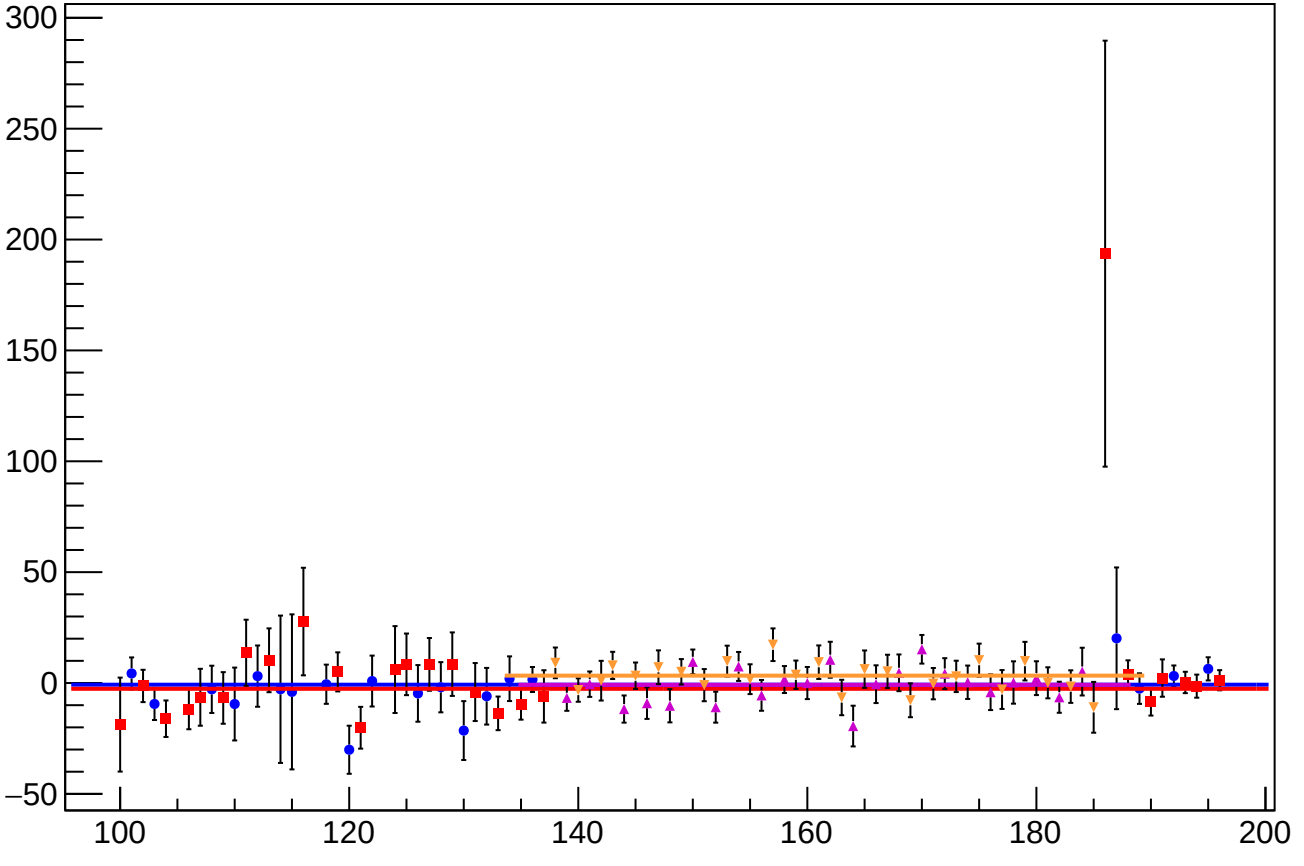
Right: 13195.021+/-2.144 $\chi^2$/NDF: 5287704.1/45

In: 8911.991+/-1.241 $\chi^2$/NDF:4441409.3/42

Out: 8957.745+/-1.199 $\chi^2$/NDF:6487877.2/50

All: 8935.658+/-0.862 $\chi^2$/NDF: 10929989.2/9

# diff_targ_positionY_mean vs Slug, Sign Corrected




Right In: -0.759+/-1.973 $\chi^2$/NDF: 15.7/19

Left Out: 3.330+/-1.431 $\chi^2$/NDF:16.9/24

Right Out: -2.608+/-1.667 $\chi^2$/NDF: 25.3/25

Left In: -0.797+/-1.479 $\chi^2$/NDF:29.4/22

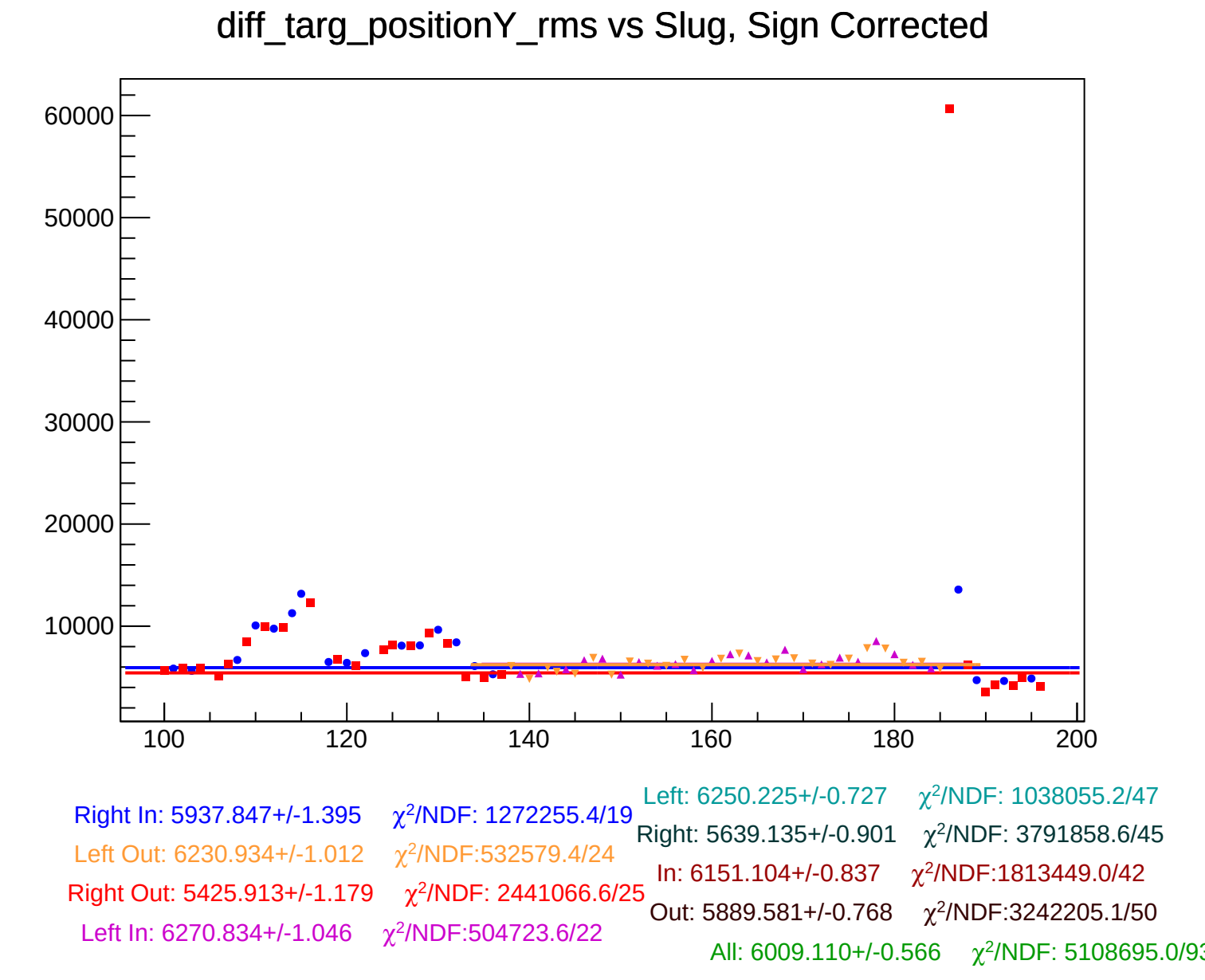
Left: 1.335+/-1.028 $\chi^2$/NDF: 50.4/47

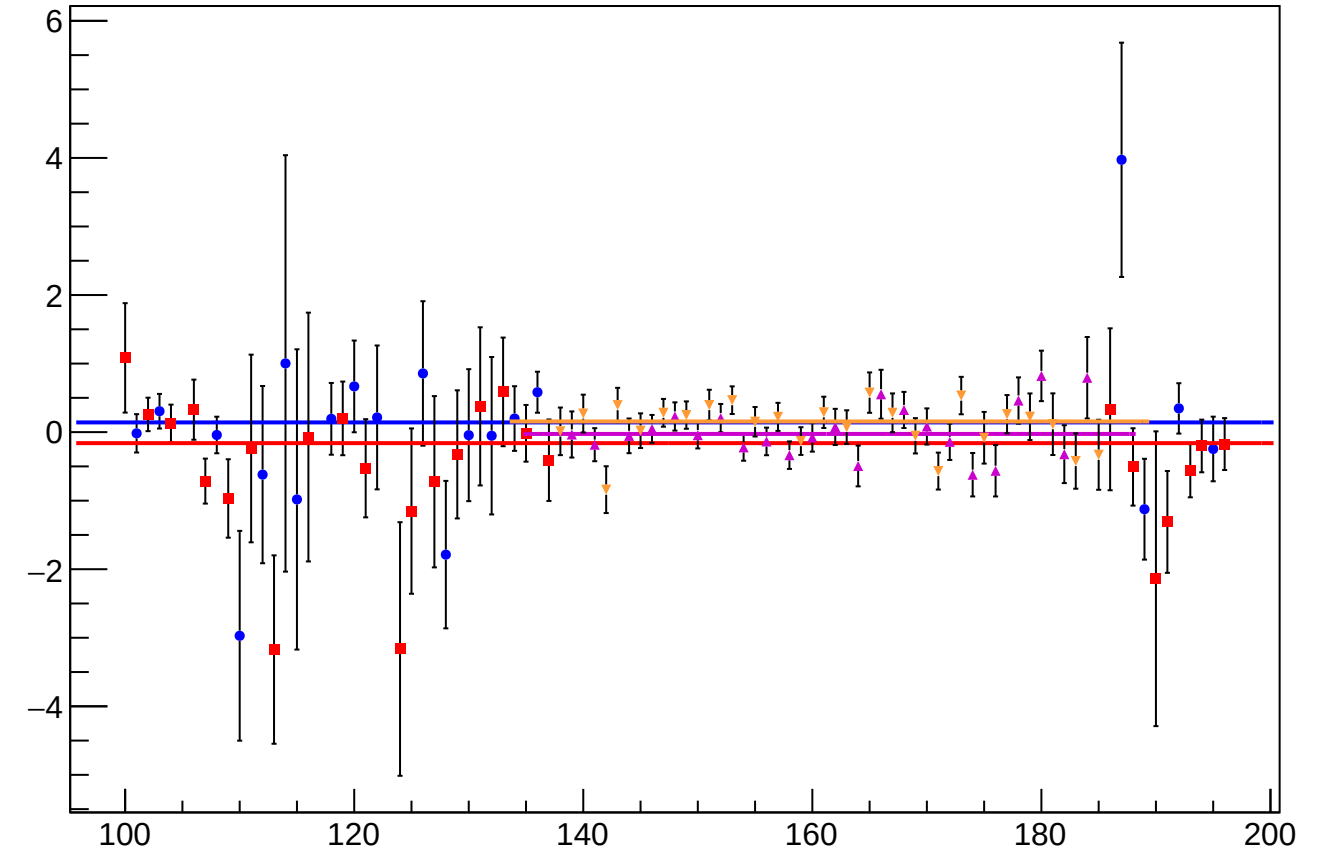
Right: -1.838+/-1.274 $\chi^2$/NDF: 41.5/45

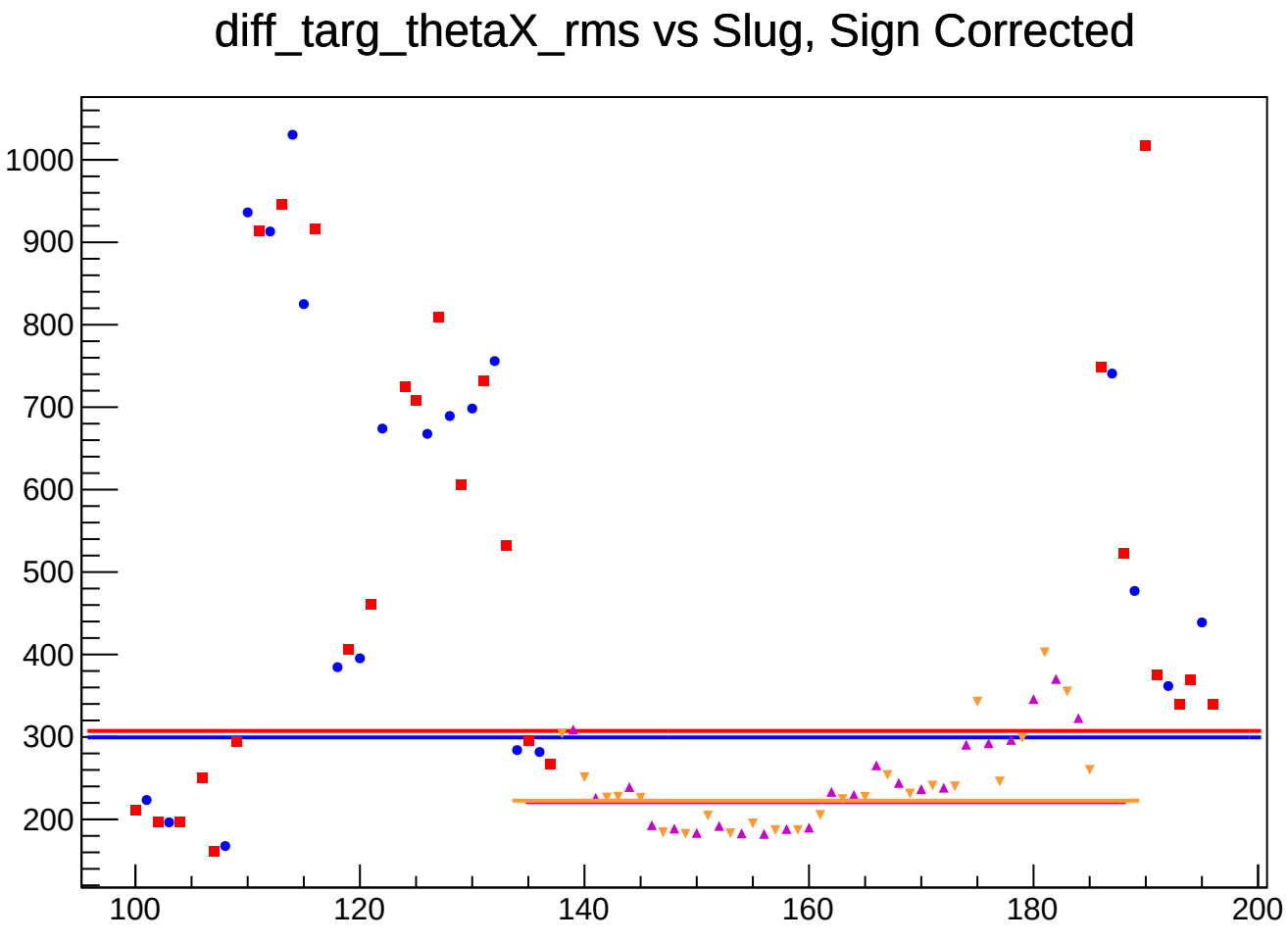
In: -0.783+/-1.183 $\chi^2$/NDF:45.1/42

Out: 0.812+/-1.086 $\chi^2$/NDF:49.5/50

All: 0.083+/-0.800 $\chi^2$/NDF: 95.6/93


diff_targ_positionY_rms vs Slug, Sign Corrected
60000
50000
40000
30000
20000
10000
100
120
140
160
180
200
Right In: 5937.847+/-1.395 χ²/NDF: 1272255.4/19
Left Out: 6230.934+/-1.012 χ²/NDF:532579.4/24
Right Out: 5425.913+/-1.179 χ²/NDF: 2441066.6/25
Left In: 6270.834+/-1.046 χ²/NDF:504723.6/22
Left: 6250.225+/-0.727 χ²/NDF: 1038055.2/47
Right: 5639.135+/-0.901 χ²/NDF: 3791858.6/45
In: 6151.104+/-0.837 χ²/NDF:1813449.0/42
Out: 5889.581+/-0.768 χ²/NDF:3242205.1/50
All: 6009.110+/-0.566 χ²/NDF: 5108695.0/93


diff_targ_thetaX_mean vs Slug, Sign Corrected
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: 0.142+/-0.109 χ²/NDF: 21.6/19
Left Out: 0.156+/-0.052 χ²/NDF:32.3/24
Right Out: -0.161+/-0.102 χ²/NDF: 27.9/25
Left In: -0.026+/-0.053 χ²/NDF:29.8/22
Left: 0.066+/-0.037 χ²/NDF: 68.1/47
Right: -0.020+/-0.075 χ²/NDF: 53.6/45
In: 0.006+/-0.048 χ²/NDF:53.3/42
Out: 0.091+/-0.046 χ²/NDF:67.8/50
All: 0.049+/-0.033 χ²/NDF: 122.7/93




Right In: 299.454+/-0.077 $\chi^2$/NDF: 4003616.9/19

Left Out: 222.727+/-0.037 $\chi^2$/NDF:1451363.0/24

Right Out: 307.320+/-0.072 $\chi^2$/NDF: 4585603.9/25

Left In: 220.802+/-0.037 $\chi^2$/NDF:1471497.9/22

Left: 221.784+/-0.026 $\chi^2$/NDF: 2924208.1/47

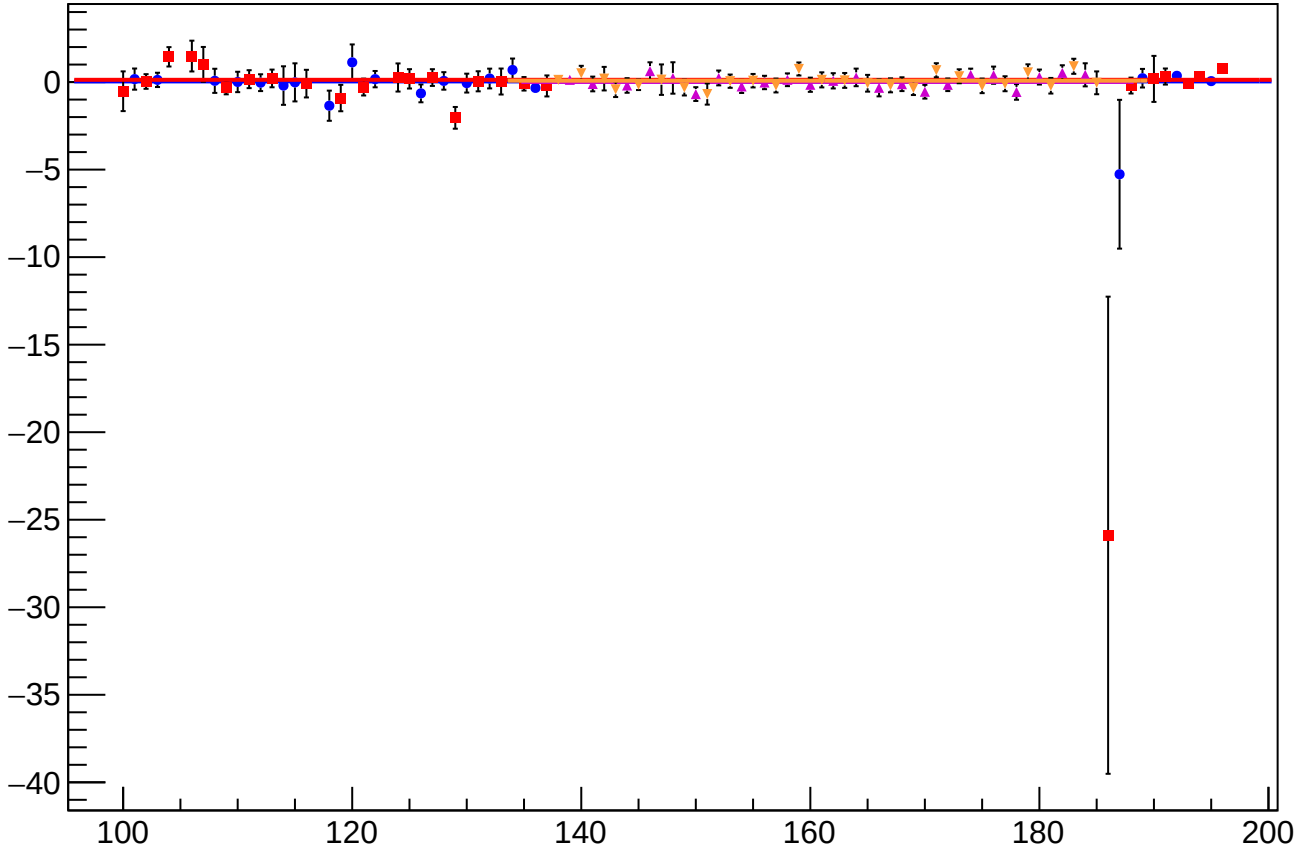
Right: 303.650+/-0.053 $\chi^2$/NDF: 8594768.7/45

In: 235.808+/-0.034 $\chi^2$/NDF:6316437.7/42

Out: 240.123+/-0.033 $\chi^2$/NDF:7129175.9/50

All: 238.029+/-0.023 $\chi^2$/NDF: 13454055.4/93

# diff_targ_thetaY_mean vs Slug, Sign Corrected




Right In: 0.038+/-0.106 $\chi^2$/NDF: 11.8/19

Left Out: 0.079+/-0.084 $\chi^2$/NDF:19.0/24

Right Out: 0.129+/-0.095 $\chi^2$/NDF: 37.6/25

Left In: 0.009+/-0.083 $\chi^2$/NDF:15.2/22

Left: 0.043+/-0.059 $\chi^2$/NDF: 34.6/47

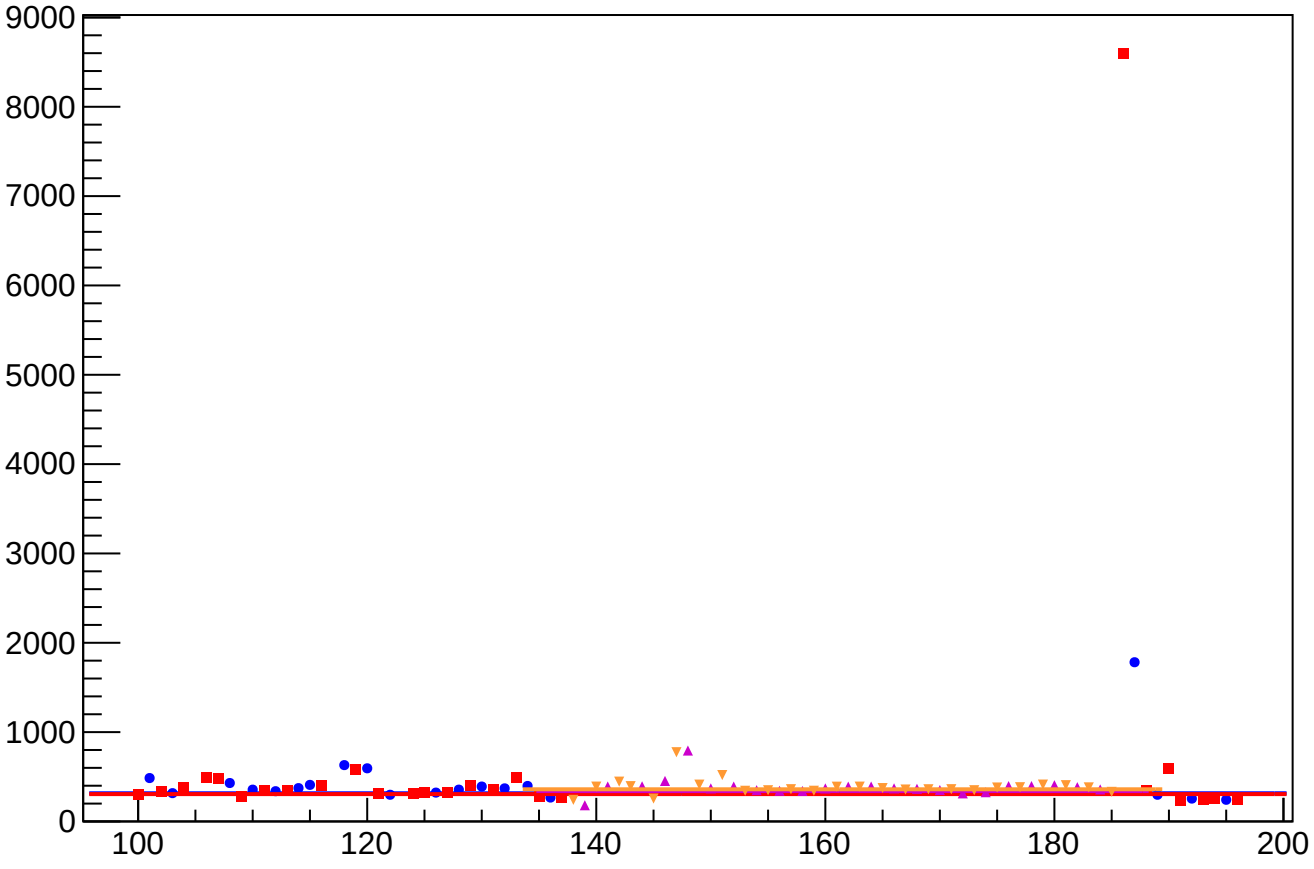
Right: 0.088+/-0.071 $\chi^2$/NDF: 49.8/45

In: 0.020+/-0.065 $\chi^2$/NDF:27.1/42

Out: 0.101+/-0.063 $\chi^2$/NDF:56.7/50

All: 0.062+/-0.045 $\chi^2$/NDF: 84.6/93

# diff_targ_thetaY_rms vs Slug, Sign Corrected




Right In: 315.300+/-0.075 $\chi^2$/NDF: 1328855.7/19

Left Out: 360.021+/-0.060 $\chi^2$/NDF:1339748.9/24

Right Out: 306.162+/-0.067 $\chi^2$/NDF: 1898409.3/25

Left In: 340.020+/-0.059 $\chi^2$/NDF:2225094.5/22

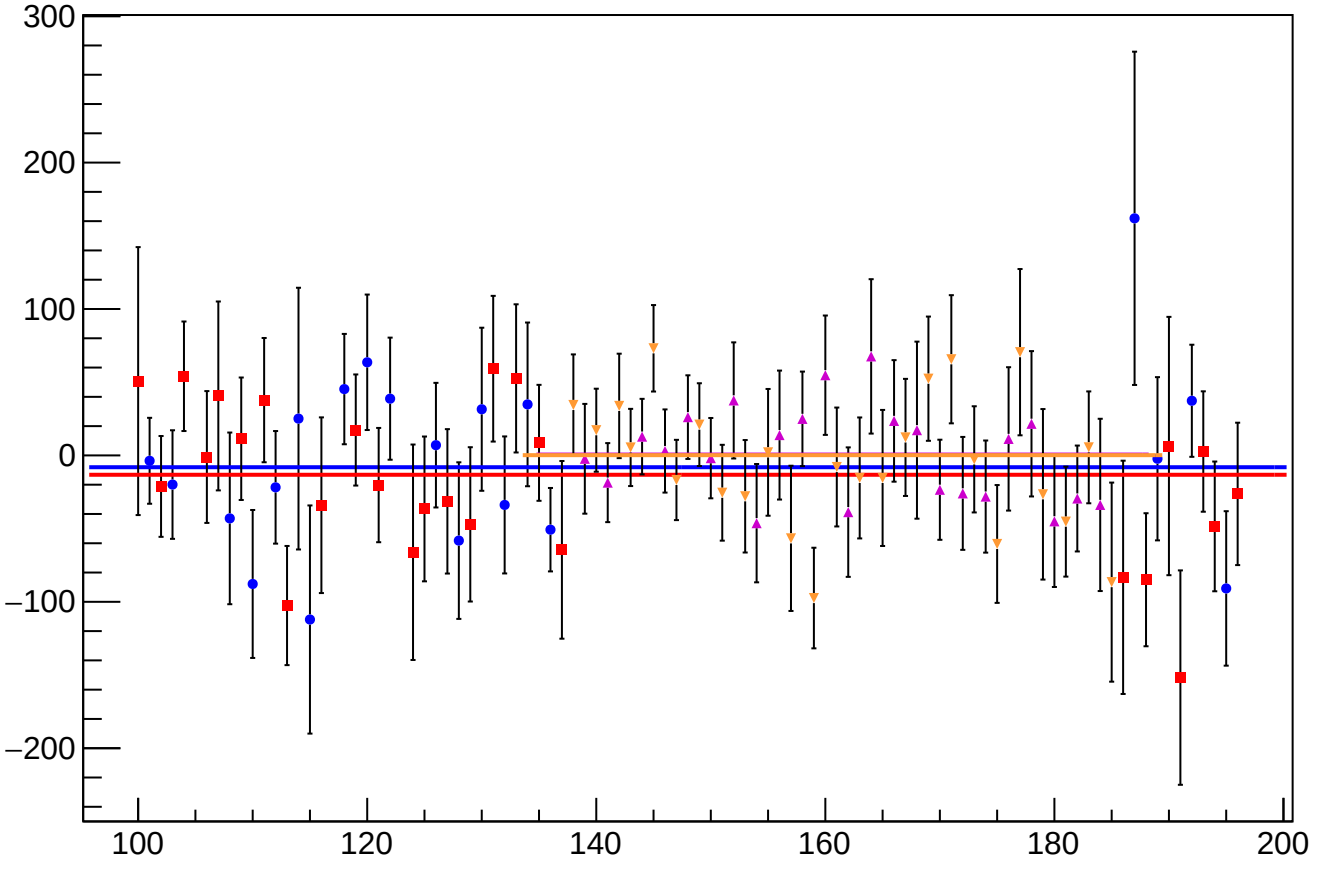
Left: 349.842+/-0.042 $\chi^2$/NDF: 3622132.3/47

Right: 310.237+/-0.050 $\chi^2$/NDF: 3235482.6/45

In: 330.663+/-0.046 $\chi^2$/NDF:3621393.9/42

Out: 336.347+/-0.045 $\chi^2$/NDF:3596938.3/50

All: 333.601+/-0.032 $\chi^2$/NDF: 7226165.7/93




Right In: -8.067+/-10.022 $\chi^2$/NDF: 21.4/19

Left Out: 0.168+/-7.375 $\chi^2$/NDF:31.1/24

Right Out: -13.225+/-9.399 $\chi^2$/NDF: 25.8/25

Left In: 0.586+/-7.667 $\chi^2$/NDF:12.8/22

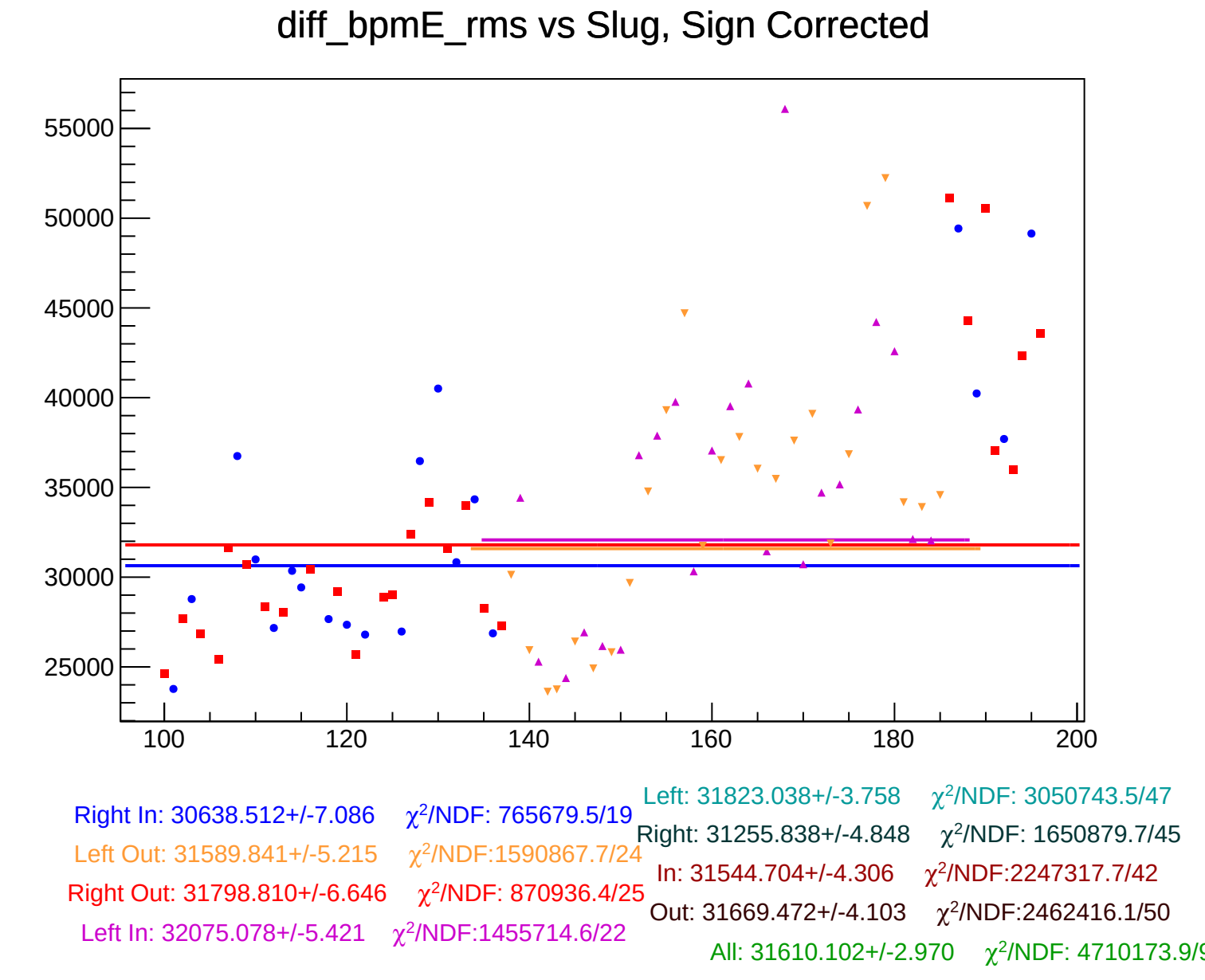
Left: 0.369+/-5.315 $\chi^2$/NDF: 43.9/47

Right: -10.811+/-6.856 $\chi^2$/NDF: 47.4/45

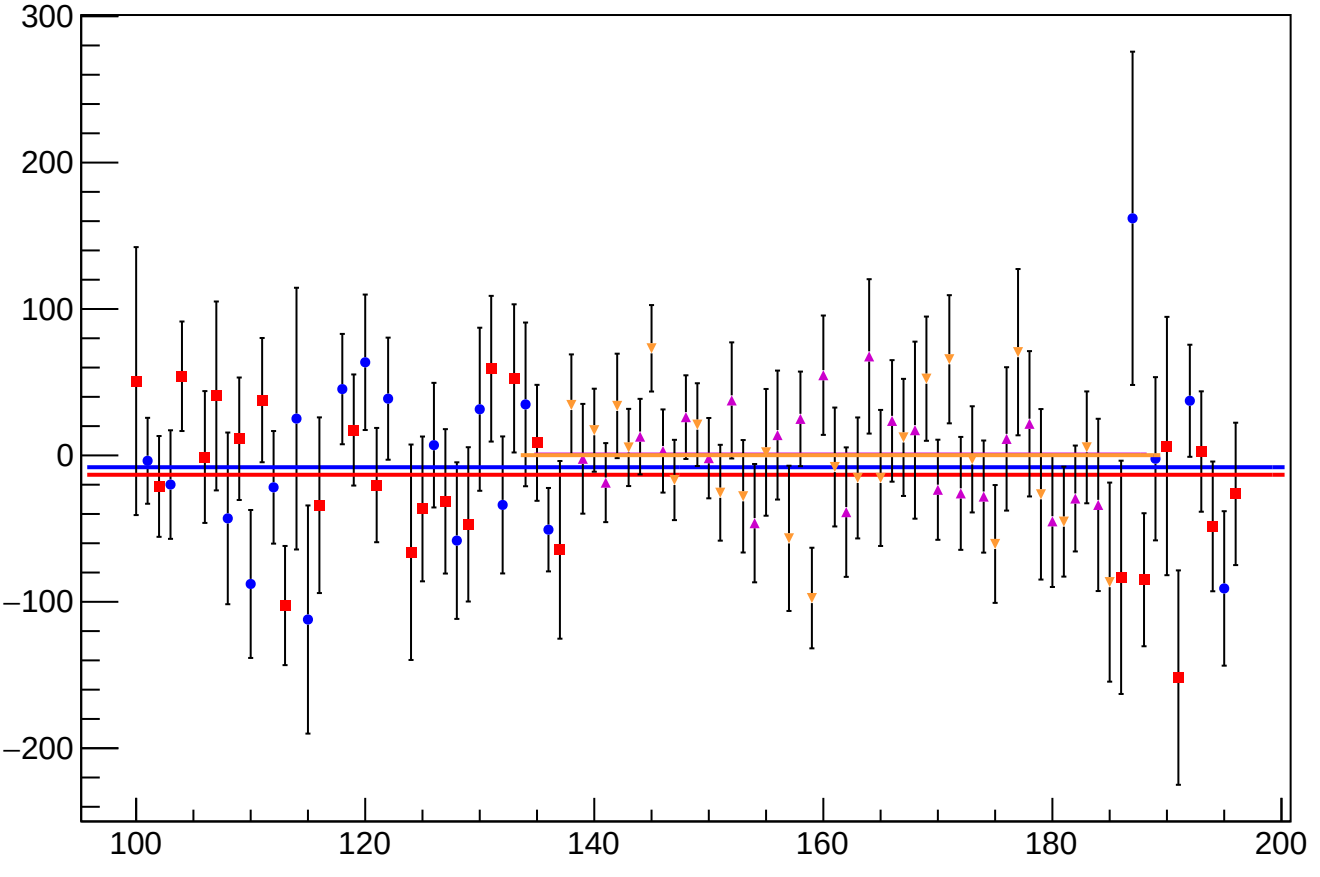
In: -2.609+/-6.089 $\chi^2$/NDF:34.7/42

Out: -4.936+/-5.802 $\chi^2$/NDF:58.2/50

All: -3.828+/-4.201 $\chi^2$/NDF: 93.0/93


diff_bpmE_rms vs Slug, Sign Corrected
55000
50000
45000
40000
35000
30000
25000
100
120
140
160
180
200
Right In: 30638.512+/-7.086 χ²/NDF: 765679.5/19
Left Out: 31589.841+/-5.215 χ²/NDF:1590867.7/24
Right Out: 31798.810+/-6.646 χ²/NDF: 870936.4/25
Left In: 32075.078+/-5.421 χ²/NDF:1455714.6/22
Left: 31823.038+/-3.758 χ²/NDF: 3050743.5/47
Right: 31255.838+/-4.848 χ²/NDF: 1650879.7/45
In: 31544.704+/-4.306 χ²/NDF:2247317.7/42
Out: 31669.472+/-4.103 χ²/NDF:2462416.1/50
All: 31610.102+/-2.970 χ²/NDF: 4710173.9/9

# diff_bpmEX_mean vs Slug, Sign Corrected




Right In: -8.067+/-10.022 $\chi^2$/NDF: 21.4/19

Left Out: 0.168+/-7.375 $\chi^2$/NDF:31.1/24

Right Out: -13.225+/-9.399 $\chi^2$/NDF: 25.8/25

Left In: 0.586+/-7.667 $\chi^2$/NDF:12.8/22

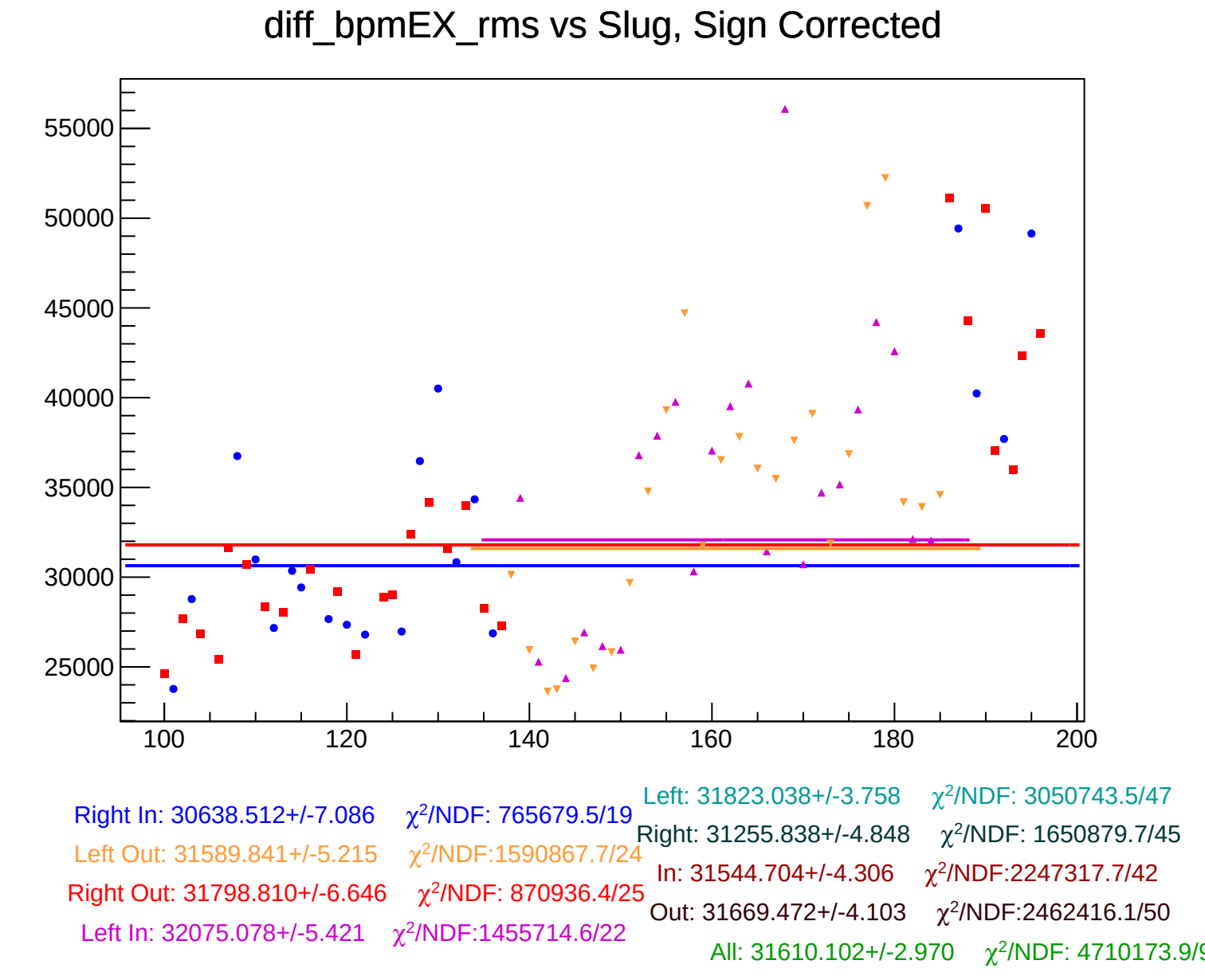
Left: 0.369+/-5.315 $\chi^2$/NDF: 43.9/47

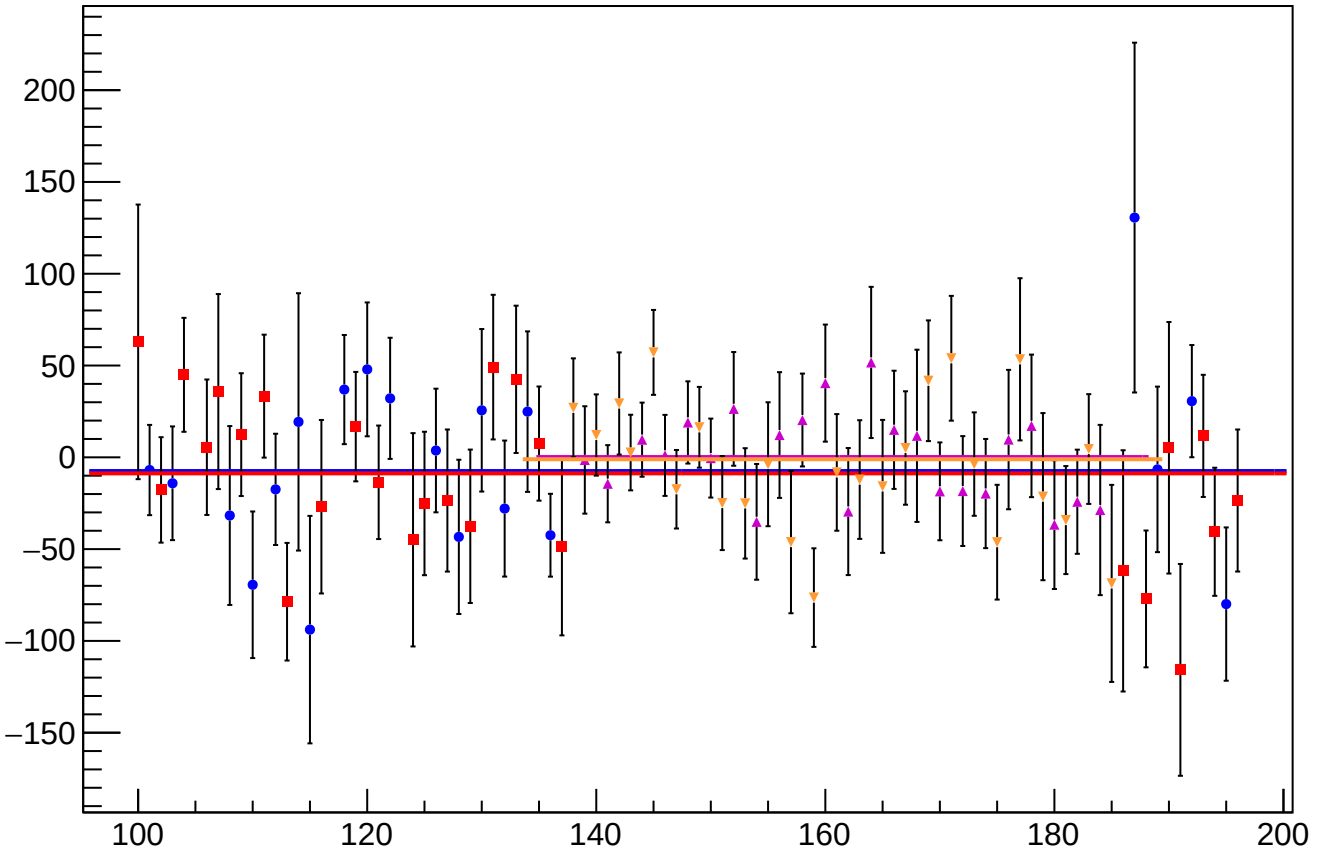
Right: -10.811+/-6.856 $\chi^2$/NDF: 47.4/45

In: -2.609+/-6.089 $\chi^2$/NDF:34.7/42

Out: -4.936+/-5.802 $\chi^2$/NDF:58.2/50

All: -3.828+/-4.201 $\chi^2$/NDF: 93.0/93


diff_bpmEX_rms vs Slug, Sign Corrected
55000
50000
45000
40000
35000
30000
25000
100
120
140
160
180
200
Right In: 30638.512+/-7.086 χ²/NDF: 765679.5/19
Left Out: 31589.841+/-5.215 χ²/NDF:1590867.7/24
Right Out: 31798.810+/-6.646 χ²/NDF: 870936.4/25
Left In: 32075.078+/-5.421 χ²/NDF:1455714.6/22
Left: 31823.038+/-3.758 χ²/NDF: 3050743.5/47
Right: 31255.838+/-4.848 χ²/NDF: 1650879.7/45
In: 31544.704+/-4.306 χ²/NDF:2247317.7/42
Out: 31669.472+/-4.103 χ²/NDF:2462416.1/50
All: 31610.102+/-2.970 χ²/NDF: 4710173.9/9




Right In: -7.481+/-8.026 $\chi^2$/NDF: 22.2/19

Left Out: -1.042+/-5.755 $\chi^2$/NDF:32.3/24

Right Out: -8.741+/-7.521 $\chi^2$/NDF: 27.3/25

Left In: 0.147+/-5.985 $\chi^2$/NDF:12.1/22

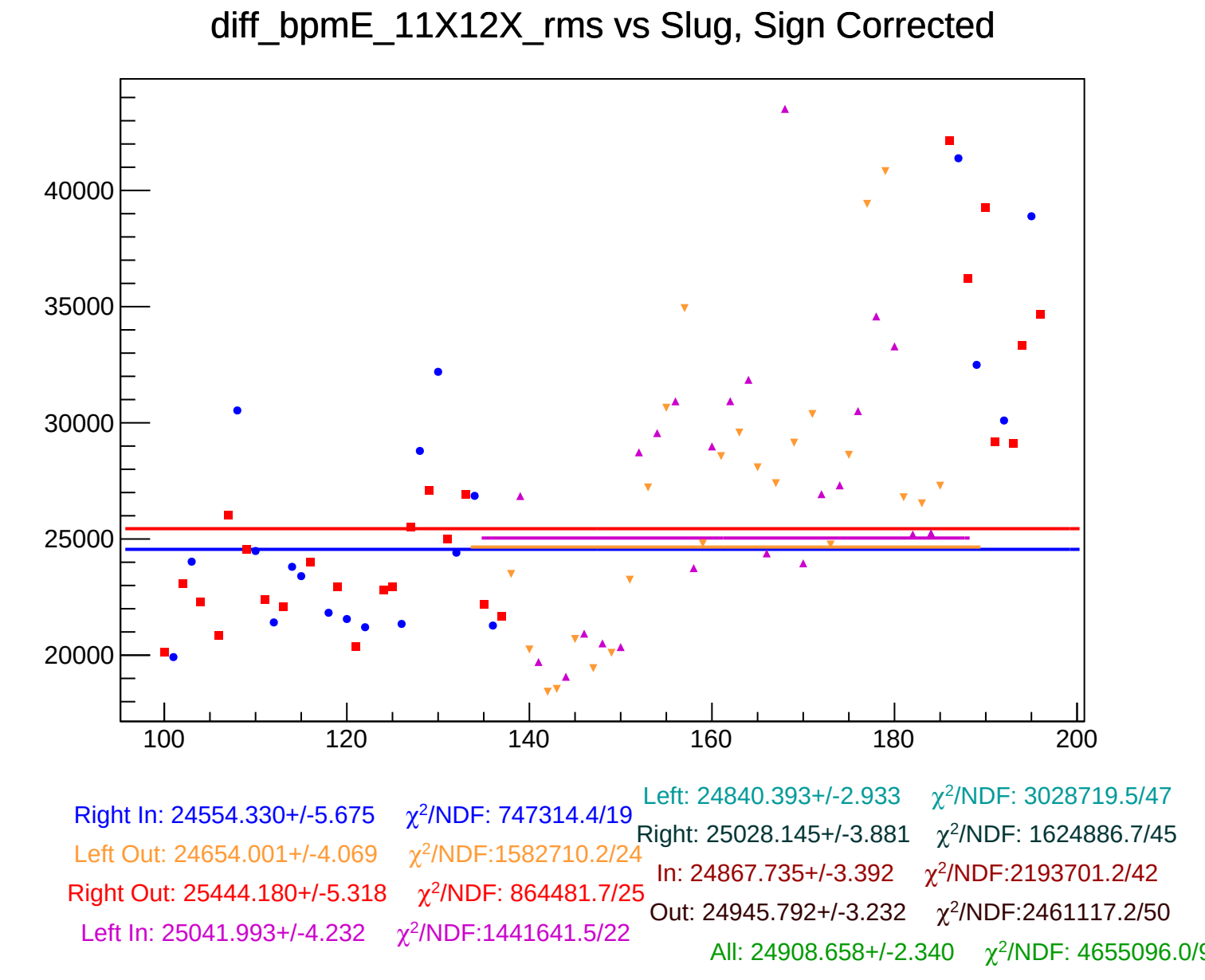
Left: -0.471+/-4.148 $\chi^2$/NDF: 44.5/47

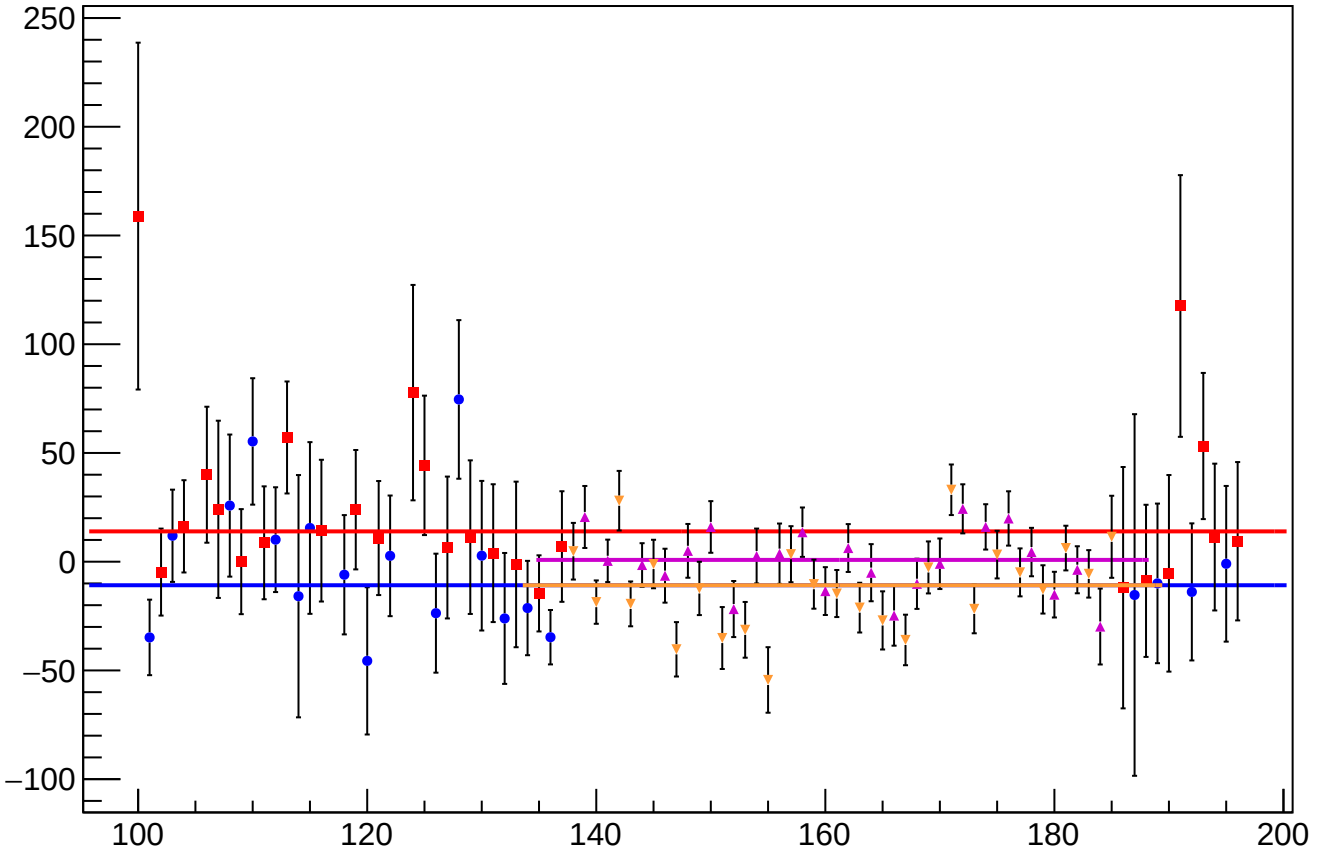
Right: -8.152+/-5.488 $\chi^2$/NDF: 49.5/45

In: -2.579+/-4.798 $\chi^2$/NDF:34.9/42

Out: -3.885+/-4.570 $\chi^2$/NDF:60.3/50

All: -3.264+/-3.309 $\chi^2$/NDF: 95.2/93


diff_bpmE_11X12X_rms vs Slug, Sign Corrected
40000
35000
30000
25000
20000
100
120
140
160
180
200
Right In: 24554.330+/-5.675 χ²/NDF: 747314.4/19
Left Out: 24654.001+/-4.069 χ²/NDF:1582710.2/24
Right Out: 25444.180+/-5.318 χ²/NDF: 864481.7/25
Left In: 25041.993+/-4.232 χ²/NDF:1441641.5/22
Left: 24840.393+/-2.933 χ²/NDF: 3028719.5/47
Right: 25028.145+/-3.881 χ²/NDF: 1624886.7/45
In: 24867.735+/-3.392 χ²/NDF:2193701.2/42
Out: 24945.792+/-3.232 χ²/NDF:2461117.2/50
All: 24908.658+/-2.340 χ²/NDF: 4655096.0/9




Right In: -10.828+/-5.865 $\chi^2$/NDF: 22.1/19

Left Out: -10.822+/-2.370 $\chi^2$/NDF:61.3/24

Right Out: 13.936+/-5.874 $\chi^2$/NDF: 19.1/25

Left In: 0.826+/-2.457 $\chi^2$/NDF:29.4/22

Left: -5.207+/-1.706 $\chi^2$/NDF: 102.3/47

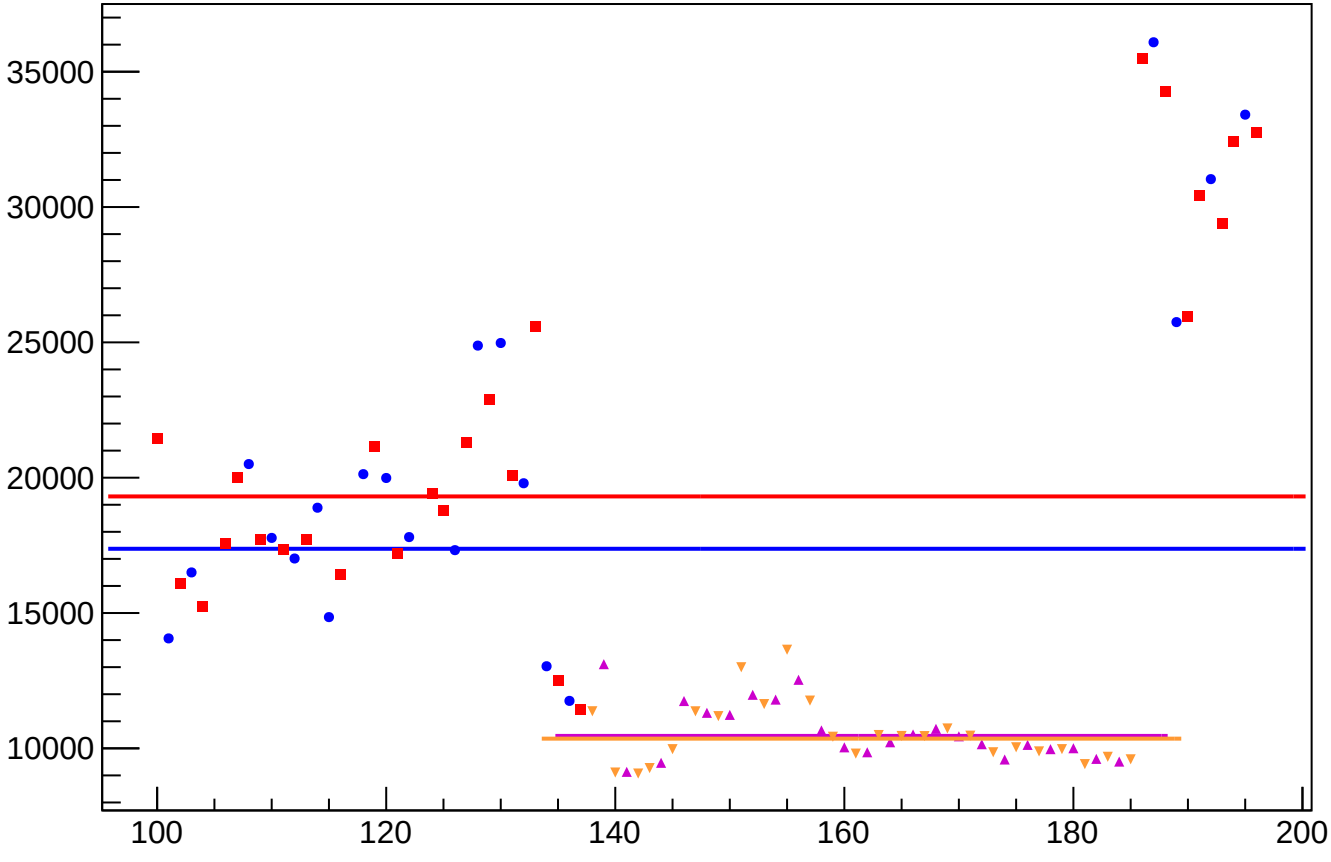
Right: 1.534+/-4.151 $\chi^2$/NDF: 50.1/45

In: -0.914+/-2.266 $\chi^2$/NDF:54.9/42

Out: -7.356+/-2.198 $\chi^2$/NDF:95.6/50

All: -4.233+/-1.578 $\chi^2$/NDF: 154.6/93

# diff_bpm4aesumX_rms vs Slug, Sign Corrected




Right In: 17373.392+/-4.147 $\chi^2$/NDF: 1799262.4/19

Left Out: 10358.363+/-1.676 $\chi^2$/NDF:363077.1/24

Right Out: 19307.924+/-4.154 $\chi^2$/NDF: 2178504.7/25

Left In: 10459.060+/-1.737 $\chi^2$/NDF:314636.9/22

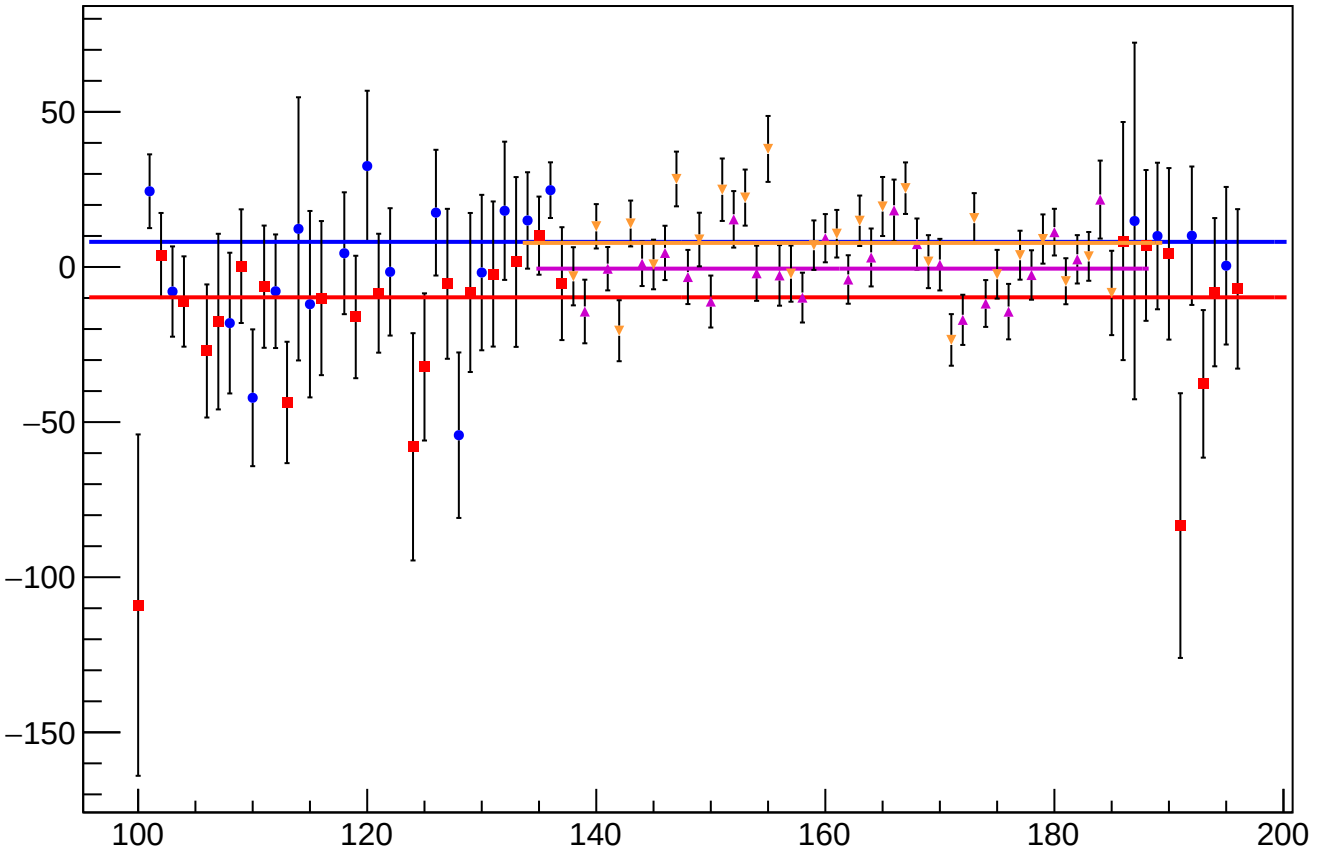
Left: 10406.904+/-1.206 $\chi^2$/NDF: 679454.0/47

Right: 18339.093+/-2.935 $\chi^2$/NDF: 4086389.2/45

In: 11491.385+/-1.602 $\chi^2$/NDF:4478595.7/42

Out: 11611.448+/-1.554 $\chi^2$/NDF:6533560.4/50

All: 11553.246+/-1.116 $\chi^2$/NDF: 11015048.5




Right In: 8.100+/-4.197 $\chi^2$/NDF: 21.9/19

Left Out: 7.763+/-1.691 $\chi^2$/NDF:60.9/24

Right Out: -9.774+/-4.212 $\chi^2$/NDF: 19.2/25

Left In: -0.532+/-1.752 $\chi^2$/NDF:29.4/22

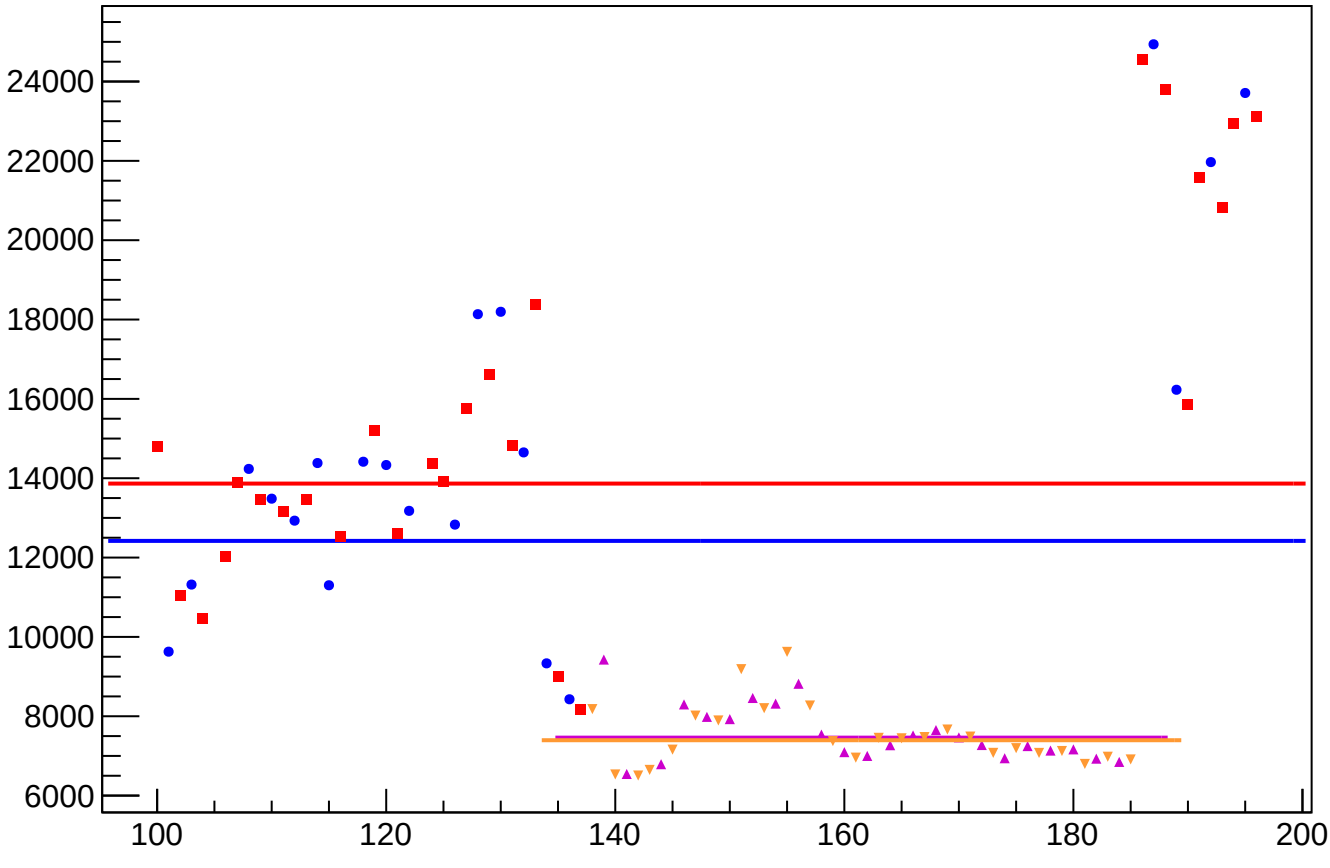
Left: 3.761+/-1.217 $\chi^2$/NDF: 102.0/47

Right: -0.805+/-2.973 $\chi^2$/NDF: 50.1/45

In: 0.749+/-1.617 $\chi^2$/NDF:55.0/42

Out: 5.327+/-1.570 $\chi^2$/NDF:95.1/50

All: 3.106+/-1.126 $\chi^2$/NDF: 154.2/93




Right In: 12420.270+/-2.968 $\chi^2$/NDF: 1786018.7/19

Left Out: 7395.667+/-1.196 $\chi^2$/NDF:324459.4/24

Right Out: 13865.010+/-2.978 $\chi^2$/NDF: 2110816.2/25

Left In: 7460.824+/-1.239 $\chi^2$/NDF:284034.9/22

Left: 7427.101+/-0.860 $\chi^2$/NDF: 609926.1/47

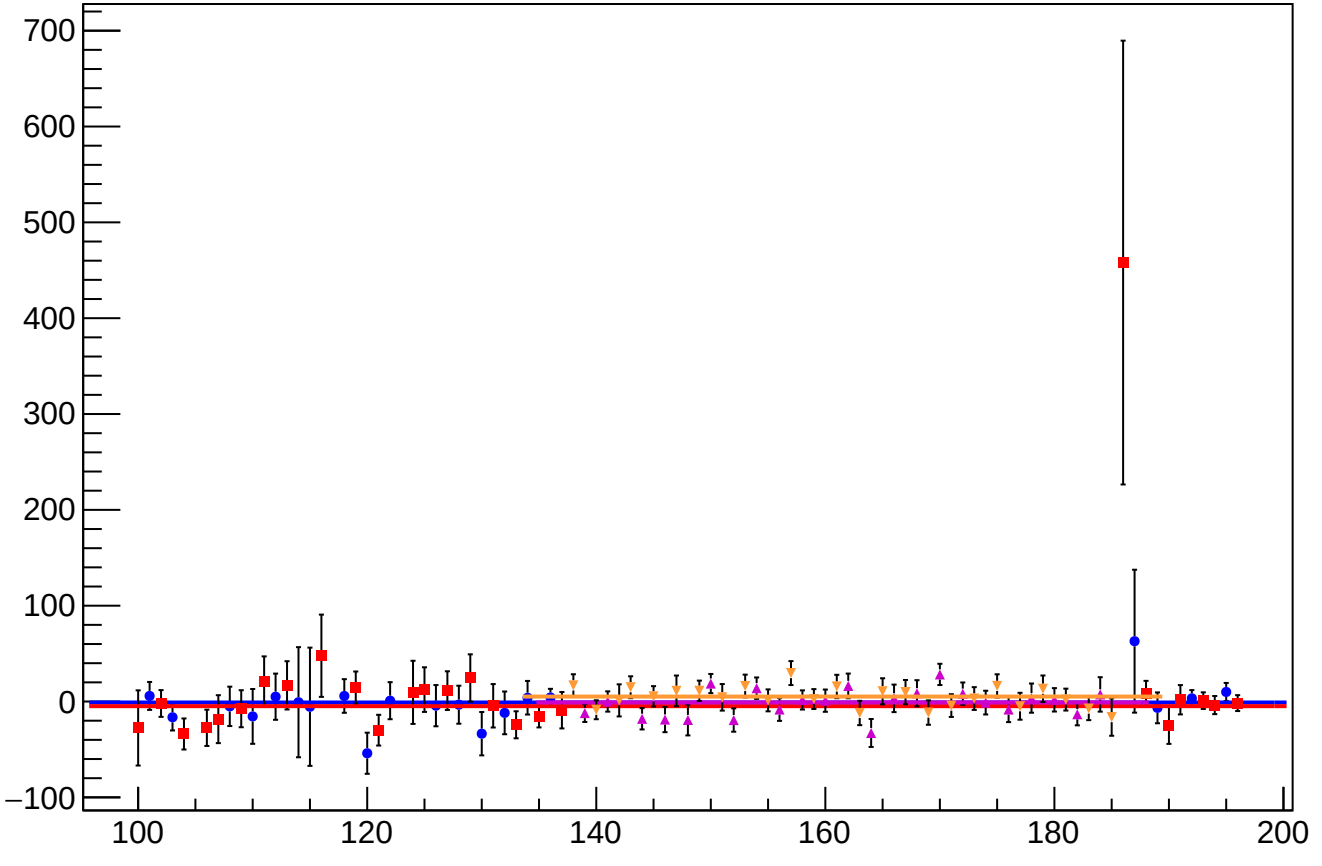
Right: 13140.084+/-2.102 $\chi^2$/NDF: 4014920.5/45

In: 8196.815+/-1.143 $\chi^2$/NDF:4448469.6/42

Out: 8294.189+/-1.110 $\chi^2$/NDF:6498703.0/50

All: 8246.942+/-0.796 $\chi^2$/NDF: 10950907.3/9

# diff_bpm4aesumY_mean vs Slug, Sign Corrected




Right In: -1.005+/-3.603 $\chi^2$/NDF: 13.3/19

Left Out: 5.178+/-2.459 $\chi^2$/NDF:18.4/24

Right Out: -4.848+/-3.114 $\chi^2$/NDF: 24.6/25

Left In: -0.891+/-2.519 $\chi^2$/NDF:31.8/22

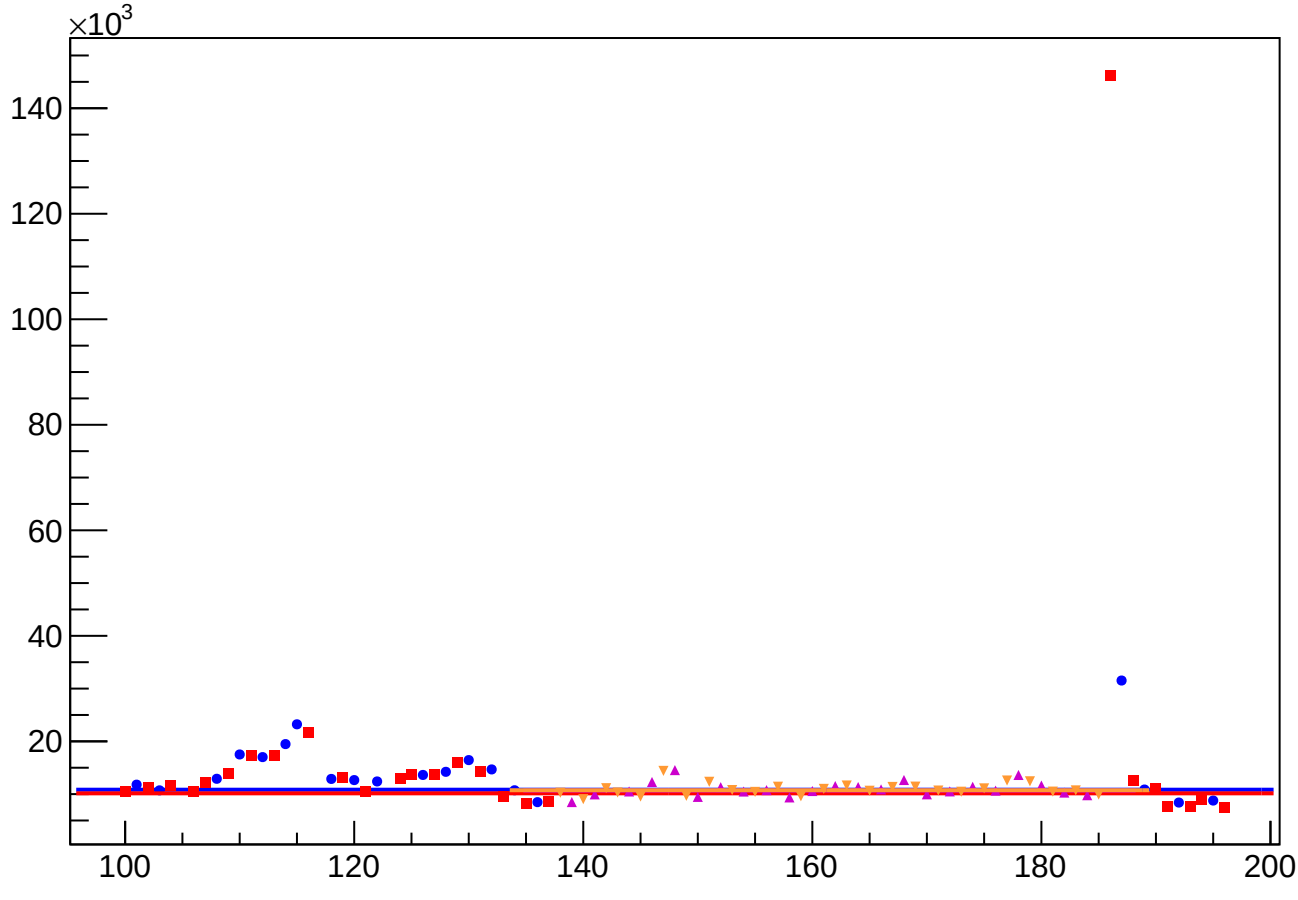
Left: 2.216+/-1.759 $\chi^2$/NDF: 53.2/47

Right: -3.205+/-2.356 $\chi^2$/NDF: 38.6/45

In: -0.929+/-2.064 $\chi^2$/NDF:45.1/42

Out: 1.327+/-1.930 $\chi^2$/NDF:49.4/50

All: 0.275+/-1.410 $\chi^2$/NDF: 95.1/93




Right In: 10834.335+/-2.548 $\chi^2$/NDF: 1271989.3/19

Left Out: 10733.733+/-1.739 $\chi^2$/NDF:368279.7/24

Right Out: 10146.386+/-2.202 $\chi^2$/NDF: 2242280.8/25

Left In: 10677.154+/-1.781 $\chi^2$/NDF:500574.4/22

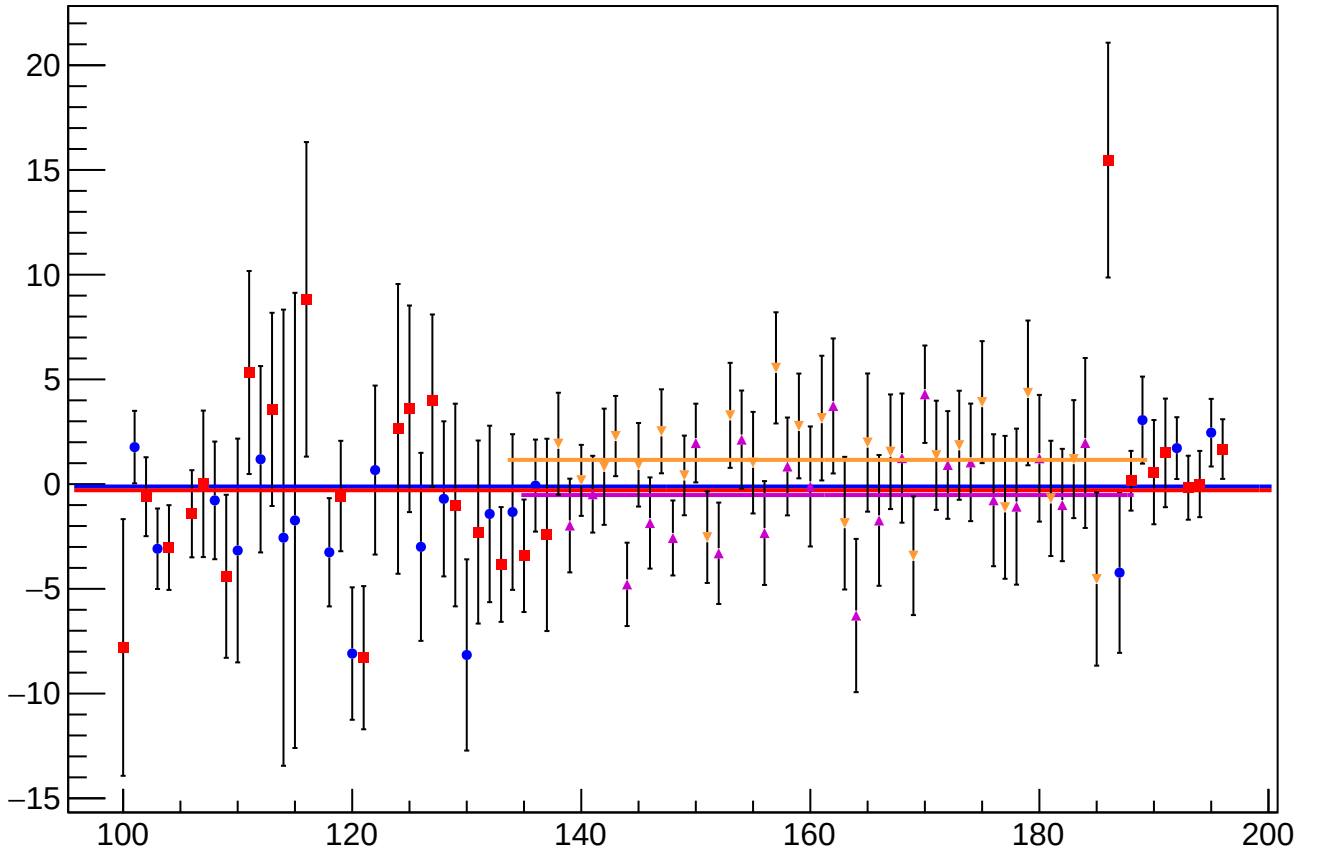
Left: 10706.122+/-1.244 $\chi^2$/NDF: 869370.9/47

Right: 10440.538+/-1.666 $\chi^2$/NDF: 3556002.5/45

In: 10728.741+/-1.460 $\chi^2$/NDF:1775120.4/42

Out: 10508.184+/-1.365 $\chi^2$/NDF:2654384.0/50

All: 10611.047+/-0.997 $\chi^2$/NDF: 4441688.0/9




Right In: -0.114+/-0.598 $\chi^2$/NDF: 23.3/19

Left Out: 1.158+/-0.500 $\chi^2$/NDF:16.8/24

Right Out: -0.293+/-0.503 $\chi^2$/NDF: 29.7/25

Left In: -0.522+/-0.520 $\chi^2$/NDF:22.3/22

Left: 0.350+/-0.360 $\chi^2$/NDF: 44.6/47

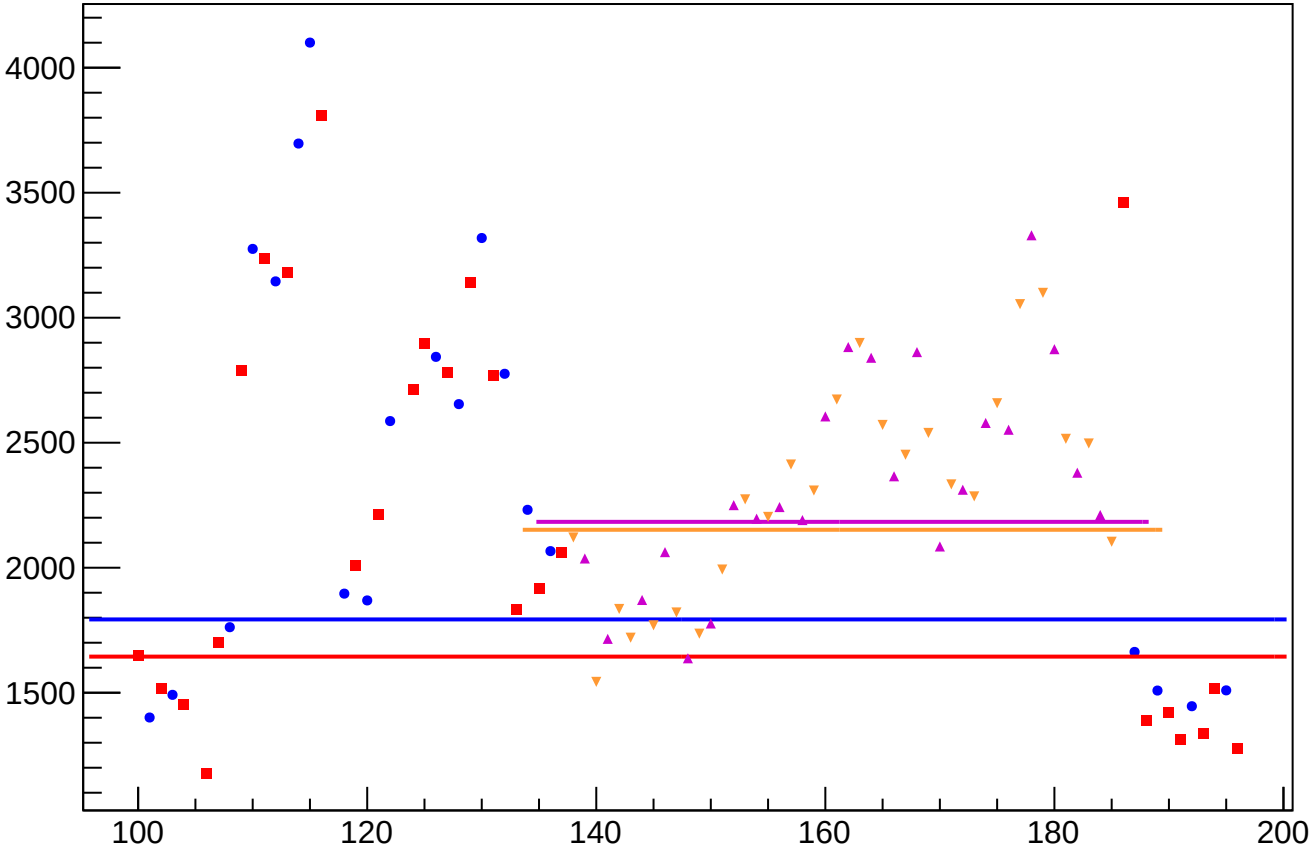
Right: -0.219+/-0.385 $\chi^2$/NDF: 53.0/45

In: -0.346+/-0.392 $\chi^2$/NDF:45.9/42

Out: 0.436+/-0.355 $\chi^2$/NDF:50.7/50

All: 0.085+/-0.263 $\chi^2$/NDF: 98.8/93

# diff_bpm4aediffY_rms vs Slug, Sign Corrected




Right In: 1793.200+/-0.423 $\chi^2$/NDF: 1544661.2/19

Left Out: 2151.757+/-0.354 $\chi^2$/NDF:1349537.9/24

Right Out: 1644.451+/-0.355 $\chi^2$/NDF: 2247725.8/25

Left In: 2183.482+/-0.368 $\chi^2$/NDF:1162266.2/22

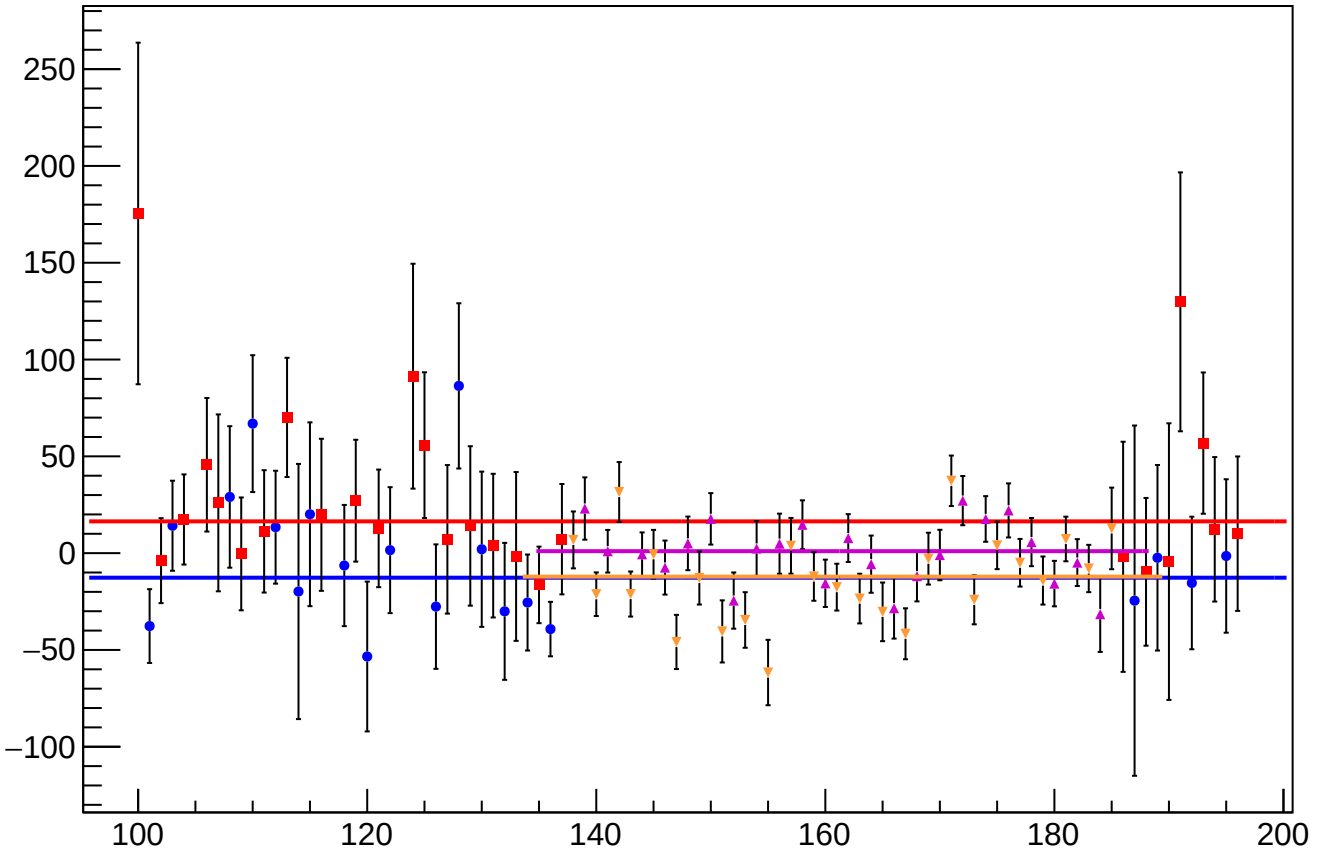
Left: 2167.006+/-0.255 $\chi^2$/NDF: 2515672.1/47

Right: 1705.996+/-0.272 $\chi^2$/NDF: 3864871.3/45

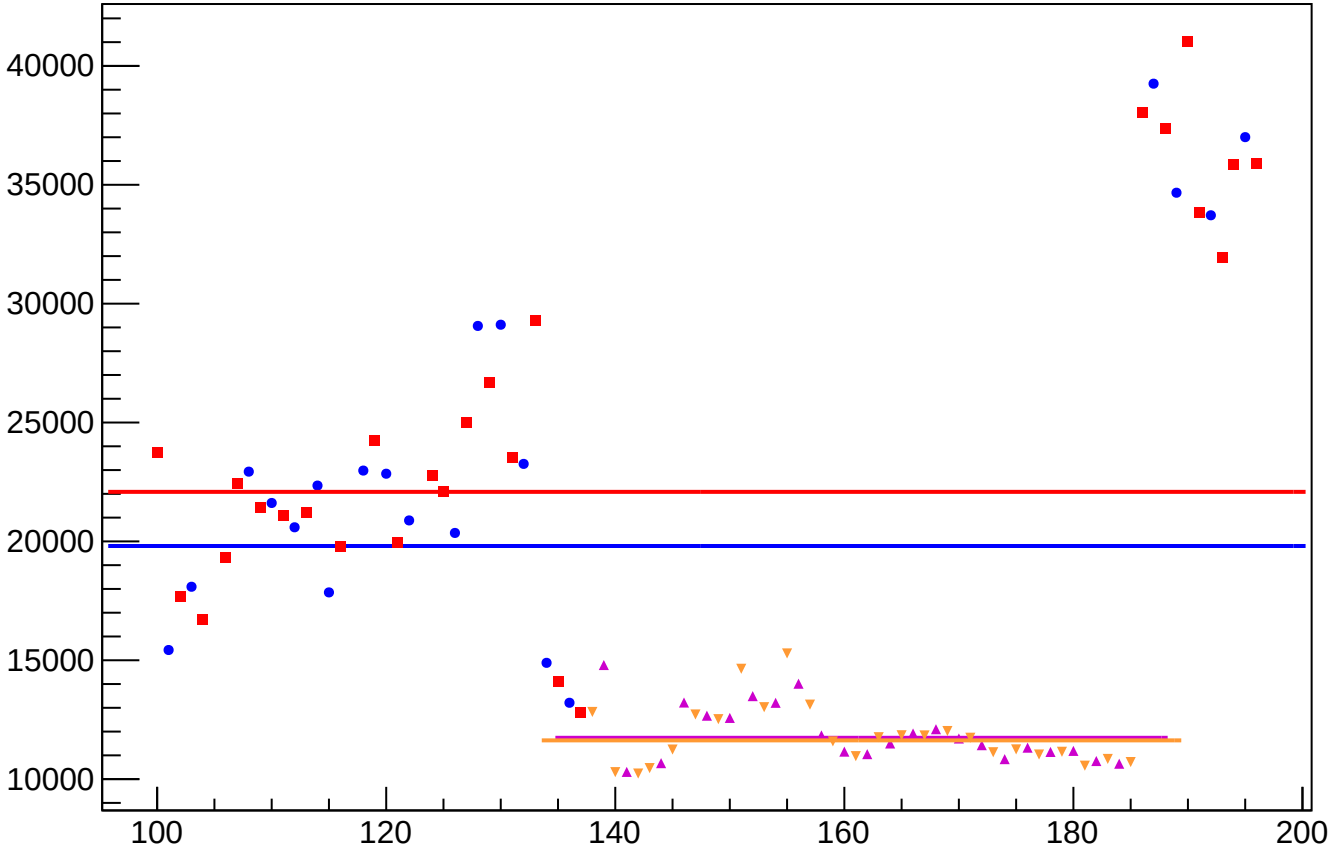
In: 2015.570+/-0.277 $\chi^2$/NDF:3191890.2/42

Out: 1899.349+/-0.251 $\chi^2$/NDF:4621095.7/50

All: 1951.578+/-0.186 $\chi^2$/NDF: 7909582.9/93


diff_bpmtargetsumX_mean vs Slug, Sign Corrected
250
200
150
100
50
0
−50
−100
100
120
140
160
180
200
Right In: -12.679+/-6.696 χ²/NDF: 22.0/19
Left Out: -12.135+/-2.661 χ²/NDF:62.6/24
Right Out: 16.412+/-6.720 χ²/NDF: 19.2/25
Left In: 1.024+/-2.758 χ²/NDF:28.8/22
Left: -5.790+/-1.915 χ²/NDF: 103.2/47
Right: 1.816+/-4.743 χ²/NDF: 50.6/45
In: -0.963+/-2.550 χ²/NDF:54.4/42
Out: -8.265+/-2.474 χ²/NDF:97.4/50
All: -4.724+/-1.776 χ²/NDF: 156.0/93

# diff_bpmtargetsumX_rms vs Slug, Sign Corrected




Right In: 19806.418+/-4.735 $\chi^2$/NDF: 1910260.1/19

Left Out: 11630.201+/-1.882 $\chi^2$/NDF:356022.1/24

Right Out: 22083.724+/-4.751 $\chi^2$/NDF: 2186096.1/25

Left In: 11738.371+/-1.950 $\chi^2$/NDF:313542.0/22

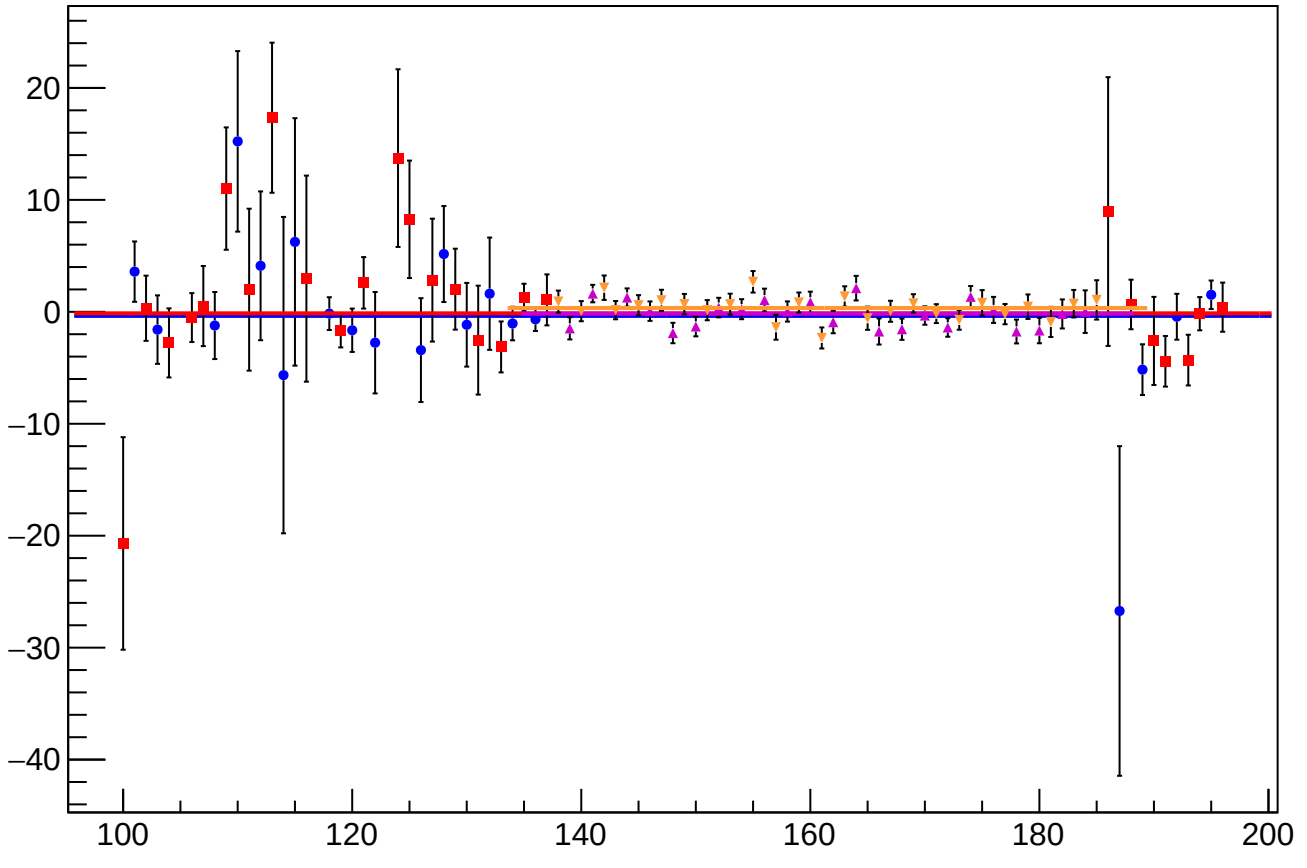
Left: 11682.361+/-1.354 $\chi^2$/NDF: 671157.6/47

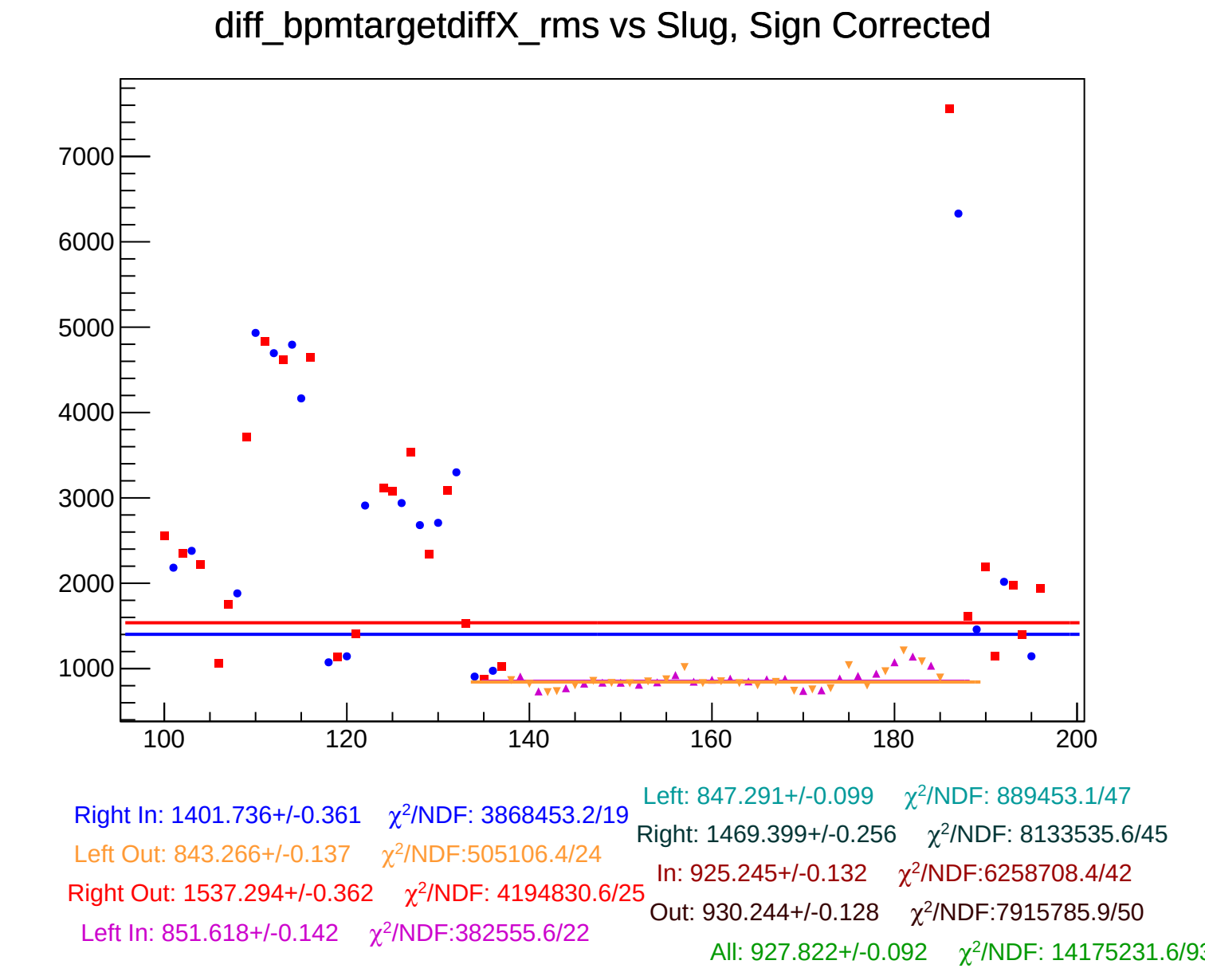
Right: 20941.087+/-3.354 $\chi^2$/NDF: 4211614.0/45

In: 12908.232+/-1.803 $\chi^2$/NDF:4706264.8/42

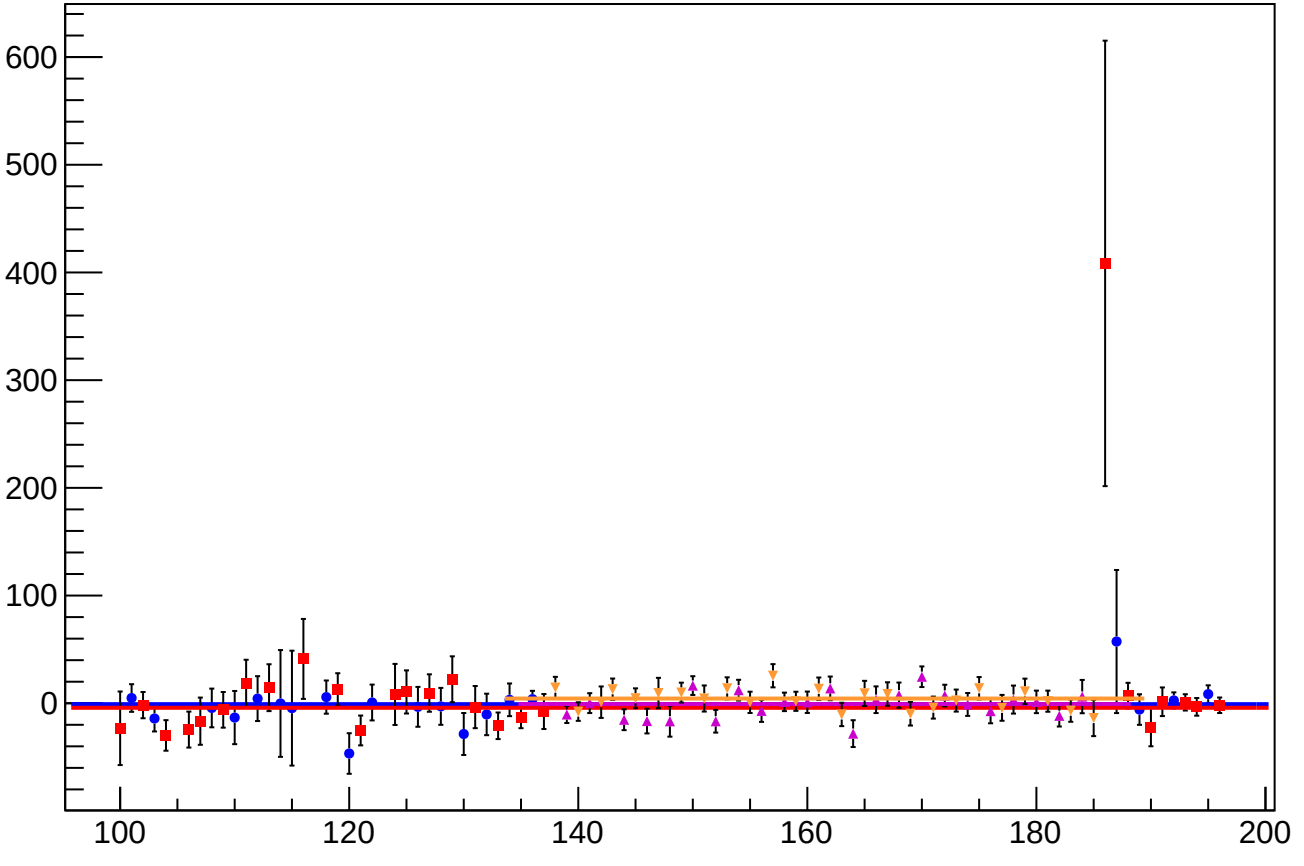
Out: 13047.373+/-1.749 $\chi^2$/NDF:6726164.4/50

All: 12979.898+/-1.256 $\chi^2$/NDF: 11435496.6


diff_bpmtargetdiffX_mean vs Slug, Sign Corrected
20
10
0
−10
−20
−30
−40
100
120
140
160
180
200
Right In: -0.363+/-0.511 χ²/NDF: 20.3/19
Left Out: 0.343+/-0.194 χ²/NDF:26.8/24
Right Out: -0.134+/-0.512 χ²/NDF: 37.1/25
Left In: -0.165+/-0.201 χ²/NDF:36.3/22
Left: 0.098+/-0.139 χ²/NDF: 66.4/47
Right: -0.249+/-0.362 χ²/NDF: 57.5/45
In: -0.192+/-0.187 χ²/NDF:56.8/42
Out: 0.283+/-0.181 χ²/NDF:64.6/50
All: 0.053+/-0.130 χ²/NDF: 124.7/93


diff_bpmtargetdiffX_rms vs Slug, Sign Corrected
7000
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 1401.736+/-0.361 χ²/NDF: 3868453.2/19
Left Out: 843.266+/-0.137 χ²/NDF:505106.4/24
Right Out: 1537.294+/-0.362 χ²/NDF: 4194830.6/25
Left In: 851.618+/-0.142 χ²/NDF:382555.6/22
Left: 847.291+/-0.099 χ²/NDF: 889453.1/47
Right: 1469.399+/-0.256 χ²/NDF: 8133535.6/45
In: 925.245+/-0.132 χ²/NDF:6258708.4/42
Out: 930.244+/-0.128 χ²/NDF:7915785.9/50
All: 927.822+/-0.092 χ²/NDF: 14175231.6/93

# diff_bpmtargetsumY_mean vs Slug, Sign Corrected




Right In: -0.838+/-3.126 $\chi^2$/NDF: 13.0/19

Left Out: 4.383+/-2.122 $\chi^2$/NDF:18.6/24

Right Out: -4.213+/-2.707 $\chi^2$/NDF: 24.5/25

Left In: -0.734+/-2.171 $\chi^2$/NDF:32.0/22

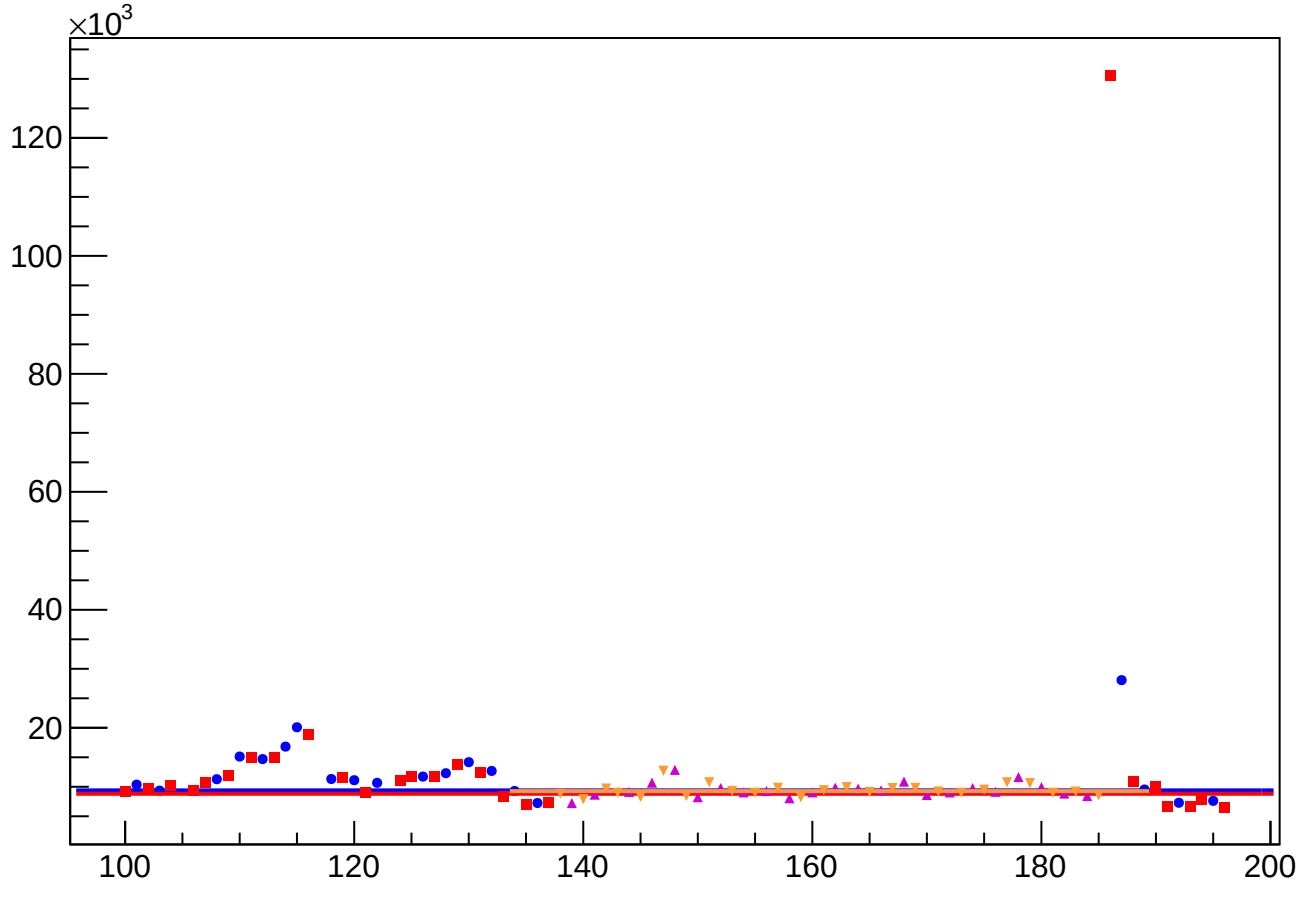
Left: 1.883+/-1.517 $\chi^2$/NDF: 53.4/47

Right: -2.766+/-2.046 $\chi^2$/NDF: 38.2/45

In: -0.768+/-1.783 $\chi^2$/NDF:45.1/42

Out: 1.112+/-1.670 $\chi^2$/NDF:49.4/50

All: 0.234+/-1.219 $\chi^2$/NDF: 95.0/93




Right In: 9390.937+/-2.210 $\chi^2$/NDF: 1289188.6/19

Left Out: 9261.542+/-1.500 $\chi^2$/NDF:366072.4/24

Right Out: 8814.399+/-1.914 $\chi^2$/NDF: 2247889.9/25

Left In: 9199.542+/-1.535 $\chi^2$/NDF:515496.8/22

Left: 9231.249+/-1.073 $\chi^2$/NDF: 882403.7/47

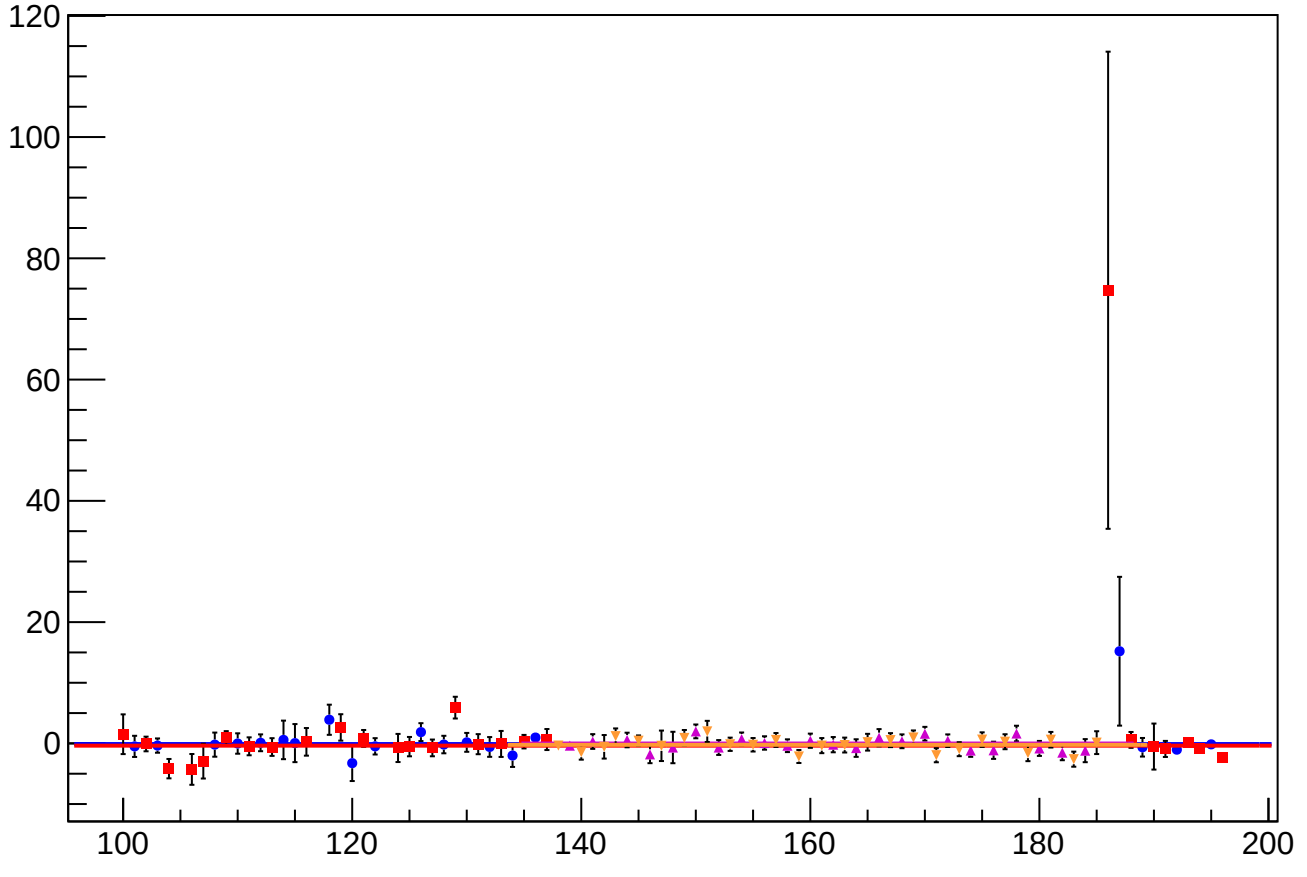
Right: 9061.523+/-1.447 $\chi^2$/NDF: 3575960.6/45

In: 9261.816+/-1.261 $\chi^2$/NDF:1809744.9/42

Out: 9091.403+/-1.181 $\chi^2$/NDF:2647764.0/50

All: 9171.041+/-0.862 $\chi^2$/NDF: 4467242.4/93

# diff_bpmtargetdiffY_mean vs Slug, Sign Corrected




Right In: -0.110+/-0.306 $\chi^2$/NDF: 11.8/19

Left Out: -0.229+/-0.243 $\chi^2$/NDF:19.0/24

Right Out: -0.372+/-0.275 $\chi^2$/NDF: 37.6/25

Left In: -0.025+/-0.239 $\chi^2$/NDF:15.2/22

Left: -0.125+/-0.171 $\chi^2$/NDF: 34.6/47

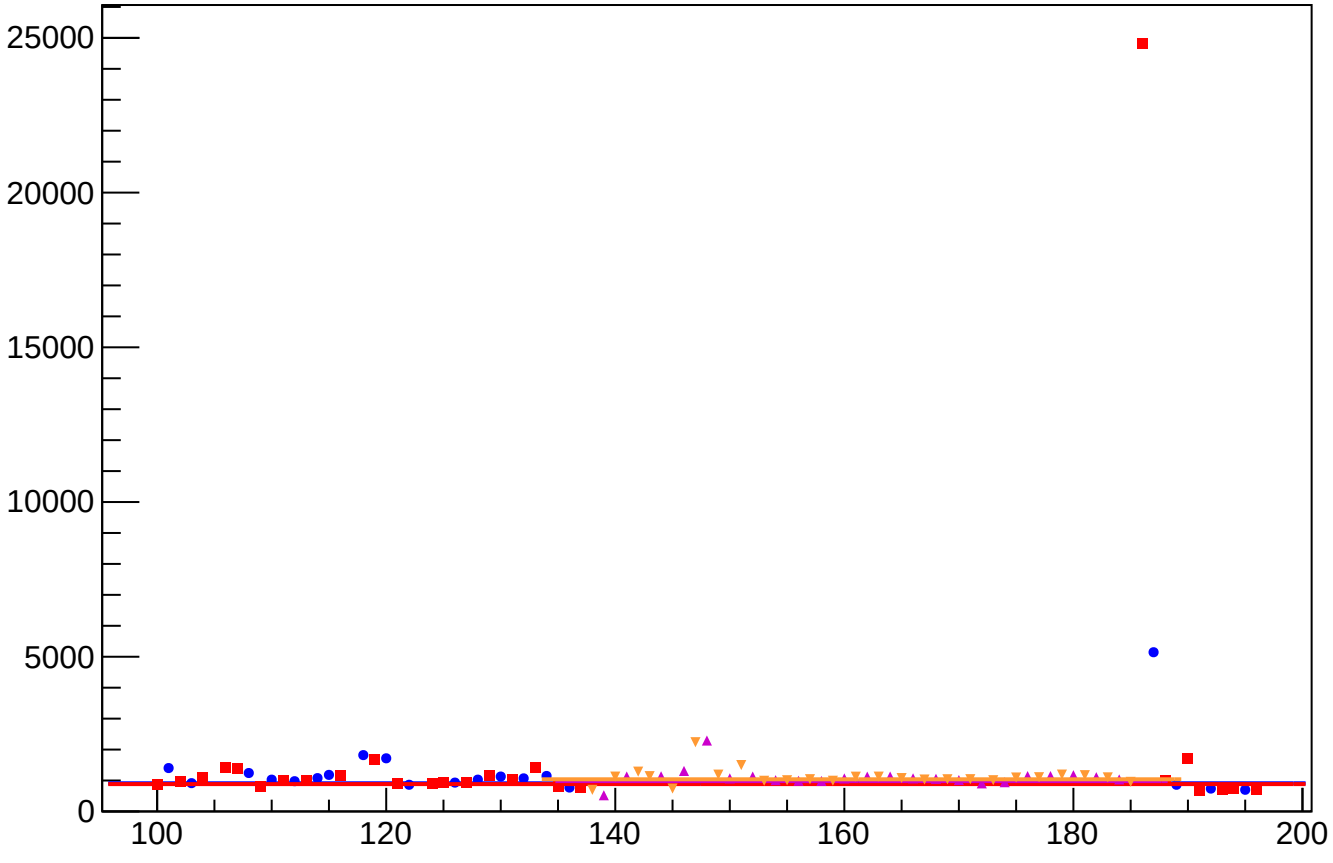
Right: -0.255+/-0.205 $\chi^2$/NDF: 49.8/45

In: -0.057+/-0.188 $\chi^2$/NDF:27.1/42

Out: -0.292+/-0.182 $\chi^2$/NDF:56.7/50

All: -0.179+/-0.131 $\chi^2$/NDF: 84.6/93

# diff_bpmtargetdiffY_rms vs Slug, Sign Corrected




Right In: 910.309+/-0.217 $\chi^2$/NDF: 1328855.7/19

Left Out: 1039.424+/-0.172 $\chi^2$/NDF:1339748.9/24

Right Out: 883.925+/-0.194 $\chi^2$/NDF: 1898409.3/25

Left In: 981.677+/-0.169 $\chi^2$/NDF:2225094.5/22

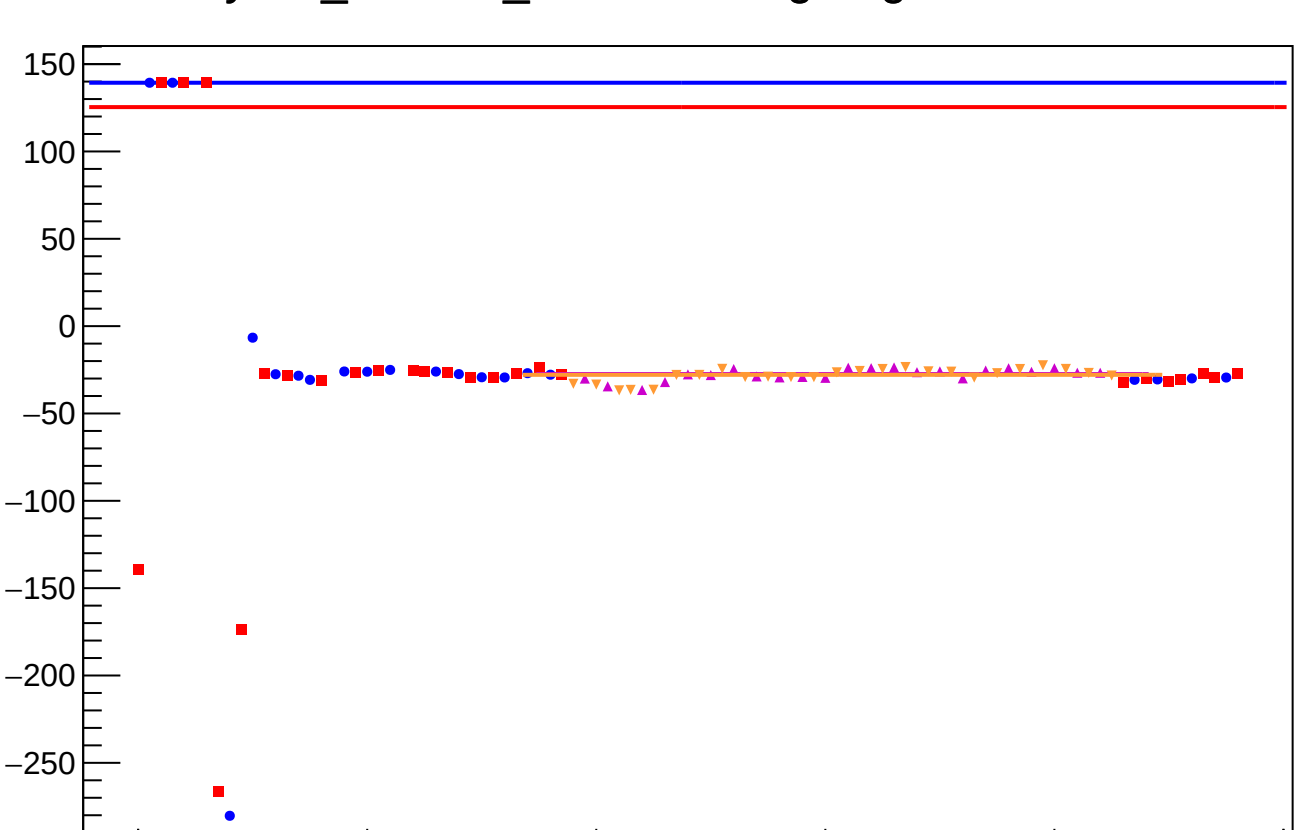
Left: 1010.035+/-0.121 $\chi^2$/NDF: 3622132.3/47

Right: 895.690+/-0.145 $\chi^2$/NDF: 3235482.6/45

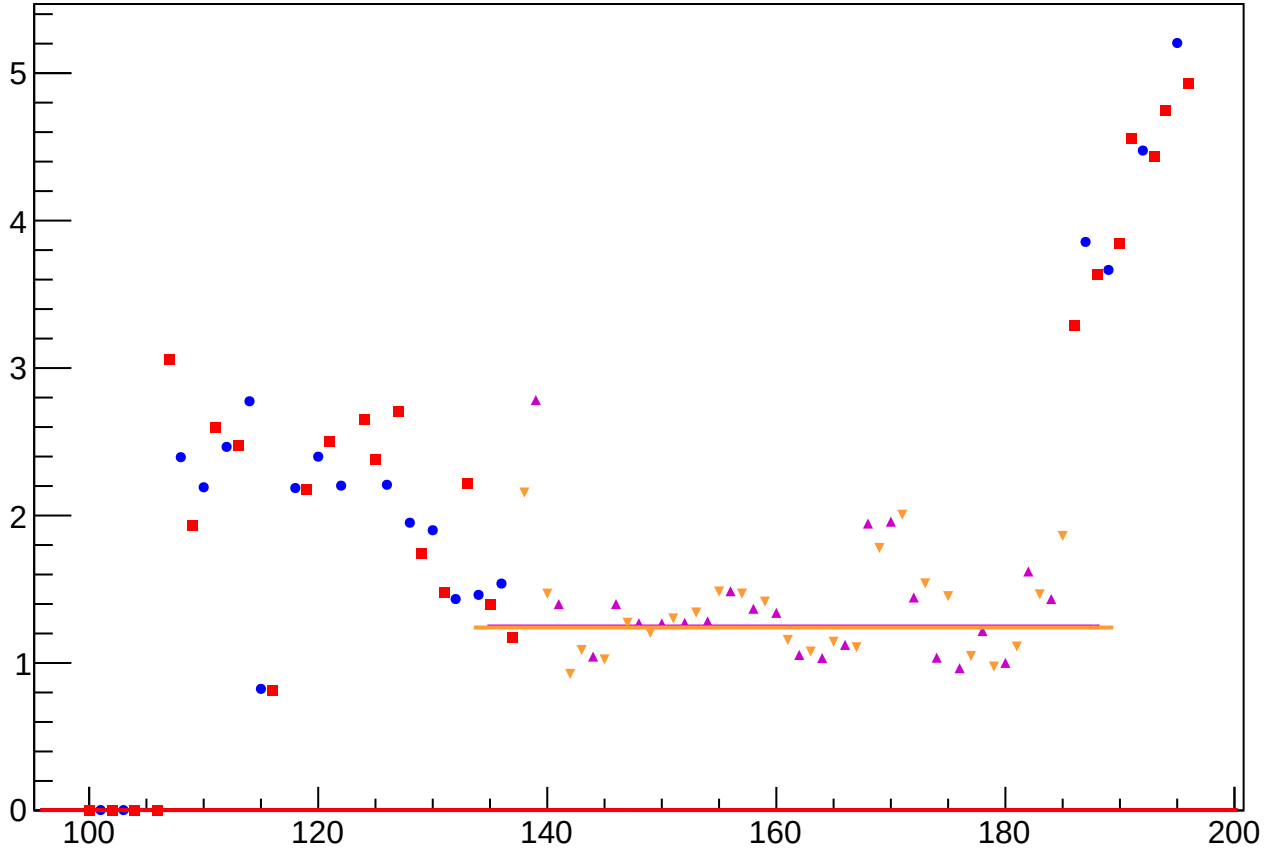
In: 954.664+/-0.133 $\chi^2$/NDF:3621393.9/42

Out: 971.072+/-0.129 $\chi^2$/NDF:3596938.3/50

All: 963.146+/-0.093 $\chi^2$/NDF: 7226165.7/93


yield_cav4bX_mean vs Slug, Sign Corrected
150
100
50
0
−50
−100
−150
−200
−250
−300
100
120
140
160
180
200
Right In: 139.337+/-0.000 χ²/NDF: 50765272699.9/19
Left Out: -27.865+/-0.000 χ²/NDF:181586557.6/24
Right Out: 125.392+/-0.000 χ²/NDF: 774179128355974.4/25
Left In: -27.427+/-0.000 χ²/NDF:123181562.3/22
Left: -27.654+/-0.000 χ²/NDF: 305673778.0/47
Right: 131.818+/-0.000 χ²/NDF: 793014874023243
In: 139.328+/-0.000 χ²/NDF:305164782659.8/42
Out: 125.384+/-0.000 χ²/NDF:774409816979433.
All: 131.810+/-0.000 χ²/NDF: 793497287722

# yield_cav4bX_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 14521825.7/19

Left Out: 1.241+/-0.000 $\chi^2$/NDF:1221248.2/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 18363009.2/25

Left In: 1.247+/-0.000 $\chi^2$/NDF:1436411.6/22

Left: 1.244+/-0.000 $\chi^2$/NDF: 2658093.9/47

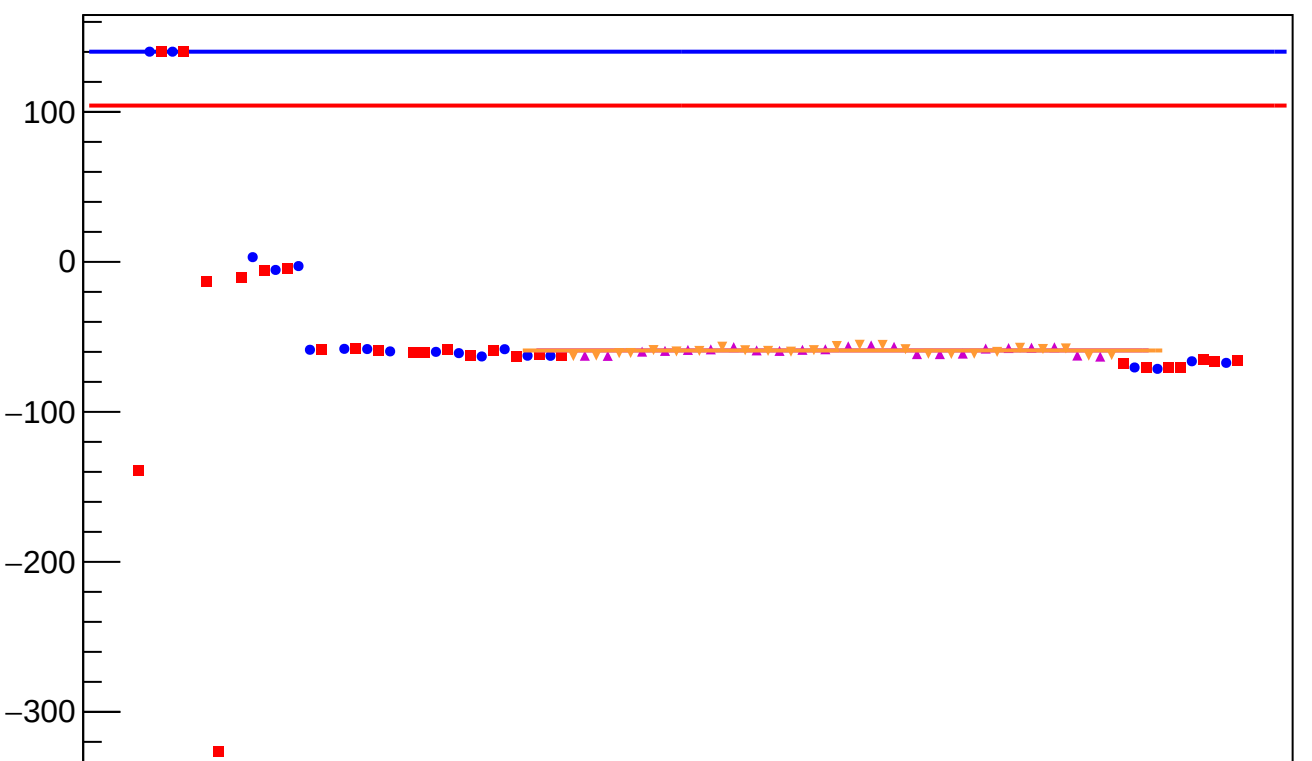
Right: 0.003+/-0.000 $\chi^2$/NDF: 32884997.7/45

In: 0.003+/-0.000 $\chi^2$/NDF:44287448.4/42

Out: 0.003+/-0.000 $\chi^2$/NDF:49663163.4/50

All: 0.003+/-0.000 $\chi^2$/NDF: 93950843.0/93

# yield_cav4bY_mean vs Slug, Sign Corrected




Right In: 140.142+/-0.000 $\chi^2$/NDF: 259501607449.2/19

Left Out: -59.066+/-0.000 $\chi^2$/NDF:177511074.0/24

Right Out: 104.221+/-0.000 $\chi^2$/NDF: 1257501537124310.8/25

Left In: -59.020+/-0.000 $\chi^2$/NDF:179236820.4/22

Left: -59.043+/-0.000 $\chi^2$/NDF: 356781901.8/47

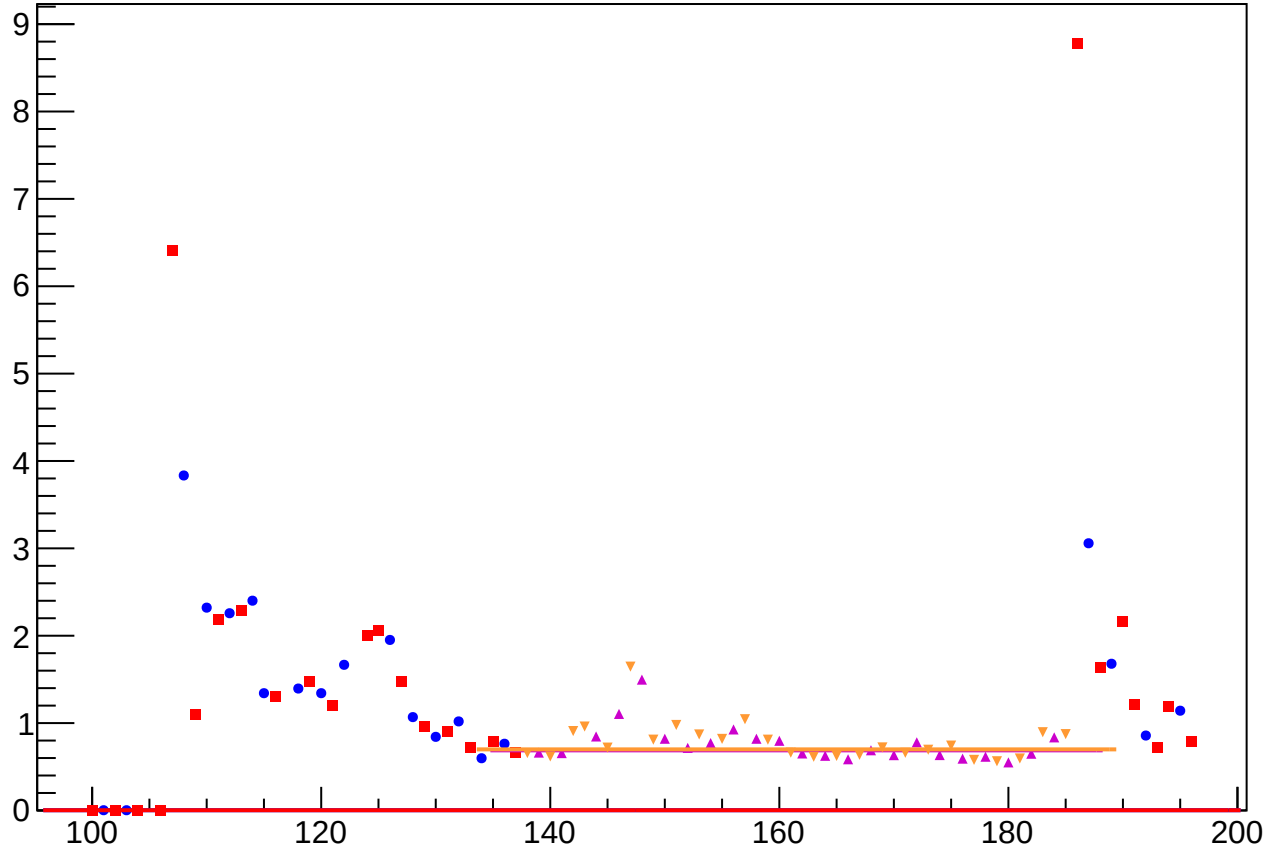
Right: 120.829+/-0.000 $\chi^2$/NDF: 138107495821155

In: 140.106+/-0.000 $\chi^2$/NDF:1535081098918.2/42

Out: 104.196+/-0.000 $\chi^2$/NDF:1258373162806776

All: 120.799+/-0.000 $\chi^2$/NDF: 13831730900

# yield_cav4bY_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 14643393.3/19

Left Out: 0.699+/-0.000 $\chi^2$/NDF:1357196.3/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 17957393.5/25

Left In: 0.688+/-0.000 $\chi^2$/NDF:1107767.8/22

Left: 0.694+/-0.000 $\chi^2$/NDF: 2468947.3/47

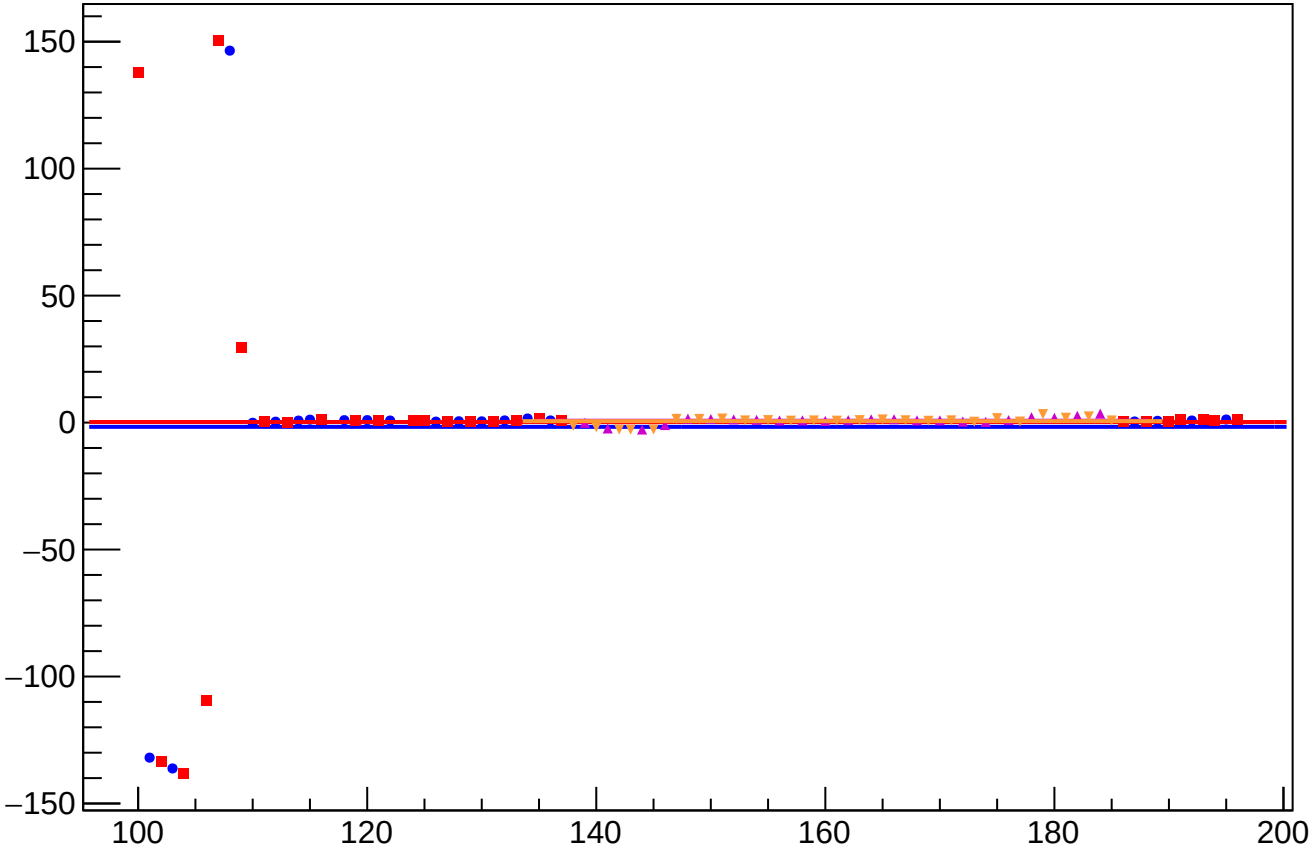
Right: 0.003+/-0.000 $\chi^2$/NDF: 32600925.1/45

In: 0.003+/-0.000 $\chi^2$/NDF:45949421.0/42

Out: 0.003+/-0.000 $\chi^2$/NDF:51014130.6/50

All: 0.003+/-0.000 $\chi^2$/NDF: 96963868.9/93

# yield_cav4cX_mean vs Slug, Sign Corrected




Right In: -1.676+/-0.000 $\chi^2$/NDF: 9893294952.6/19

Left Out: 0.575+/-0.000 $\chi^2$/NDF:154364809.1/24

Right Out: 0.228+/-0.000 $\chi^2$/NDF: 3611976978.2/25

Left In: 0.732+/-0.000 $\chi^2$/NDF:105135095.8/22

Left: 0.650+/-0.000 $\chi^2$/NDF: 260223435.2/47

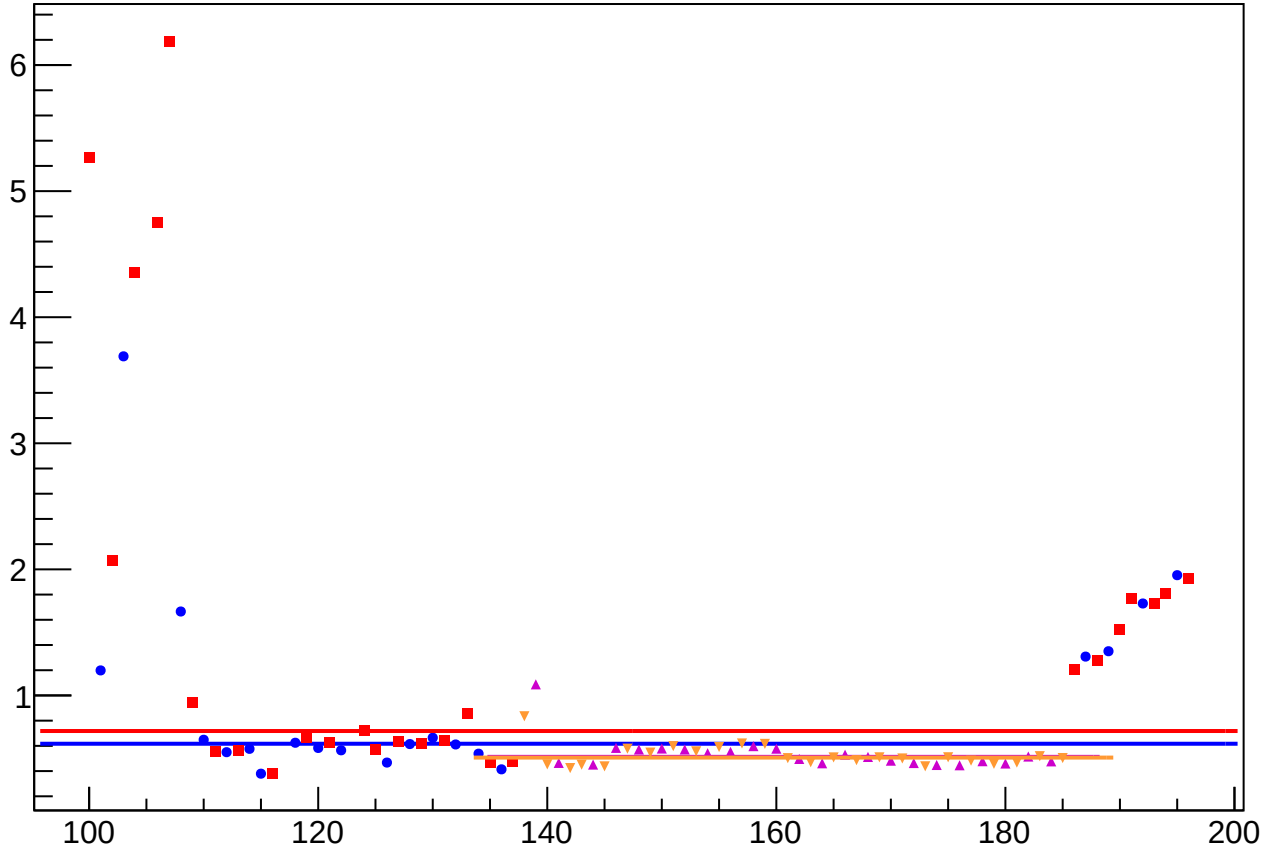
Right: -0.779+/-0.000 $\chi^2$/NDF: 13534366019.7/45

In: 0.171+/-0.000 $\chi^2$/NDF:10074218949.9/42

Out: 0.506+/-0.000 $\chi^2$/NDF:3767800966.9/50

All: 0.341+/-0.000 $\chi^2$/NDF: 13846203631.0/9

# yield_cav4cX_rms vs Slug, Sign Corrected




Right In: 0.617+/-0.000 $\chi^2$/NDF: 3669694.0/19

Left Out: 0.507+/-0.000 $\chi^2$/NDF:554639.8/24

Right Out: 0.718+/-0.000 $\chi^2$/NDF: 5420853.4/25

Left In: 0.513+/-0.000 $\chi^2$/NDF:753419.6/22

Left: 0.510+/-0.000 $\chi^2$/NDF: 1310004.6/47

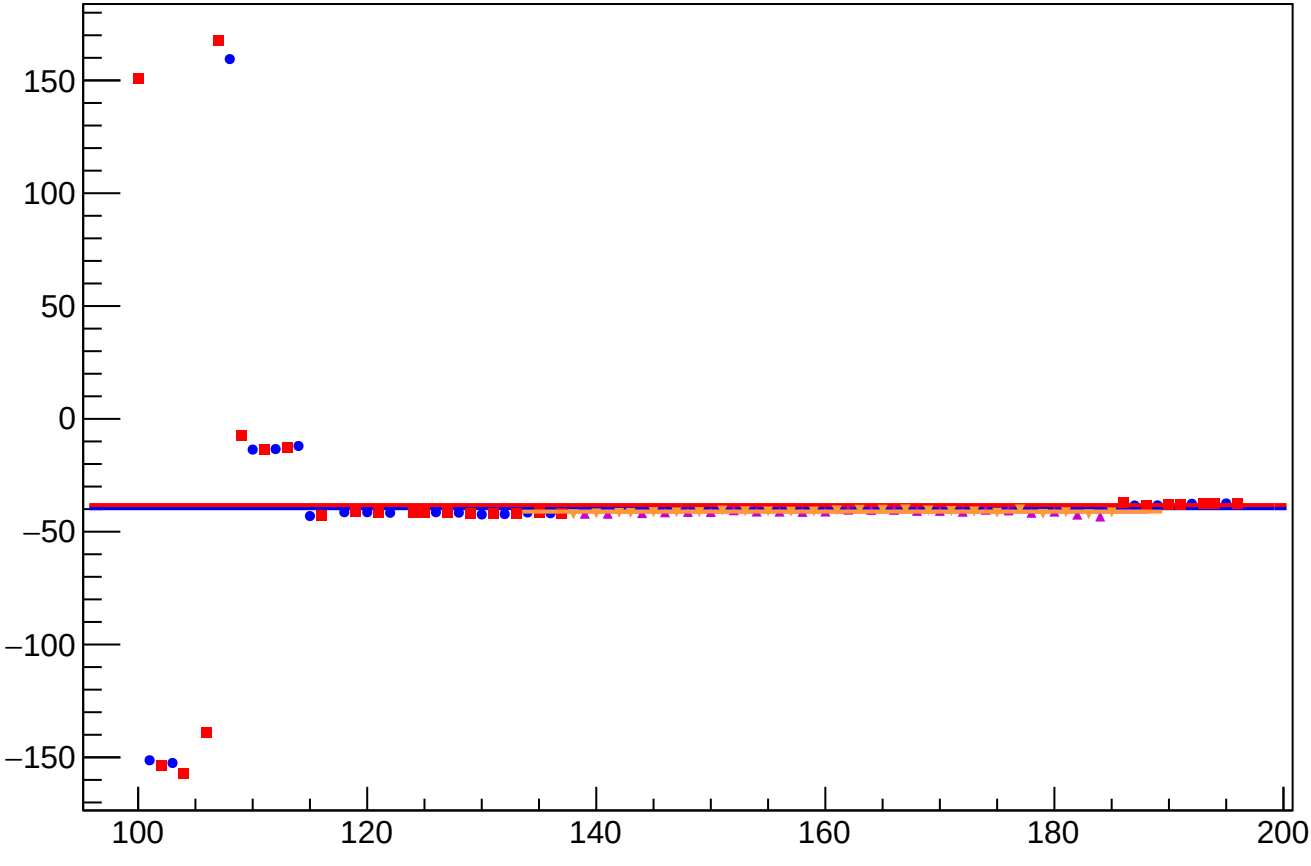
Right: 0.664+/-0.000 $\chi^2$/NDF: 9254244.5/45

In: 0.537+/-0.000 $\chi^2$/NDF:4705950.4/42

Out: 0.549+/-0.000 $\chi^2$/NDF:7054403.9/50

All: 0.543+/-0.000 $\chi^2$/NDF: 11771100.0/93

# yield_cav4cY_mean vs Slug, Sign Corrected




Right In: -39.594+/-0.000 $\chi^2$/NDF: 3535742962.6/19

Left Out: -41.092+/-0.000 $\chi^2$/NDF:60251030.2/24

Right Out: -38.200+/-0.000 $\chi^2$/NDF: 2506872853.1/25

Left In: -41.029+/-0.000 $\chi^2$/NDF:51382147.2/22

Left: -41.062+/-0.000 $\chi^2$/NDF: 111932061.5/47

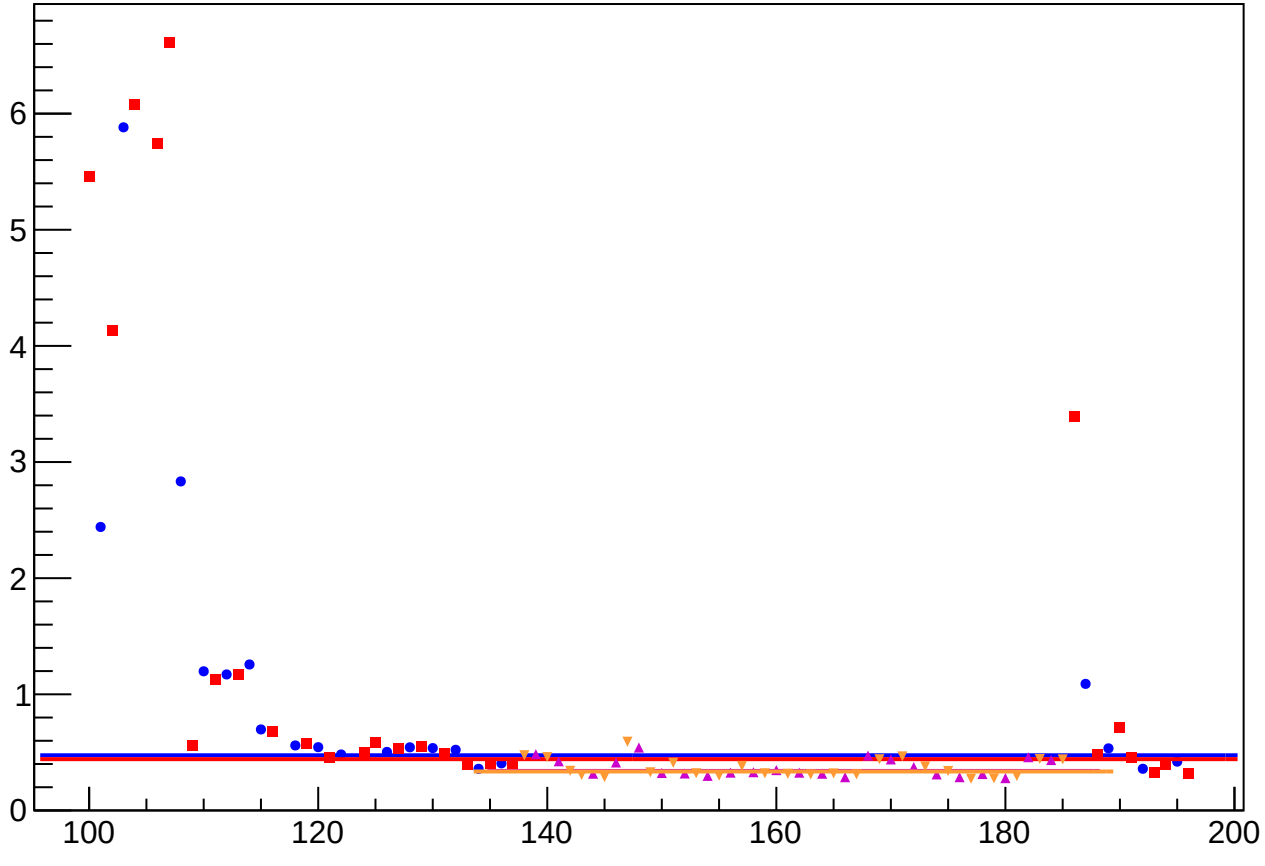
Right: -38.792+/-0.000 $\chi^2$/NDF: 6078217521.5/45

In: -40.771+/-0.000 $\chi^2$/NDF:3640838317.8/42

Out: -40.470+/-0.000 $\chi^2$/NDF:2850456008.4/50

All: -40.611+/-0.000 $\chi^2$/NDF: 6499827418.1/

# yield_cav4cY_rms vs Slug, Sign Corrected




Right In: 0.475+/-0.000 $\chi^2$/NDF: 3371491.5/19

Left Out: 0.336+/-0.000 $\chi^2$/NDF:1238006.0/24

Right Out: 0.442+/-0.000 $\chi^2$/NDF: 4602060.1/25

Left In: 0.340+/-0.000 $\chi^2$/NDF:1065343.8/22

Left: 0.338+/-0.000 $\chi^2$/NDF: 2306534.0/47

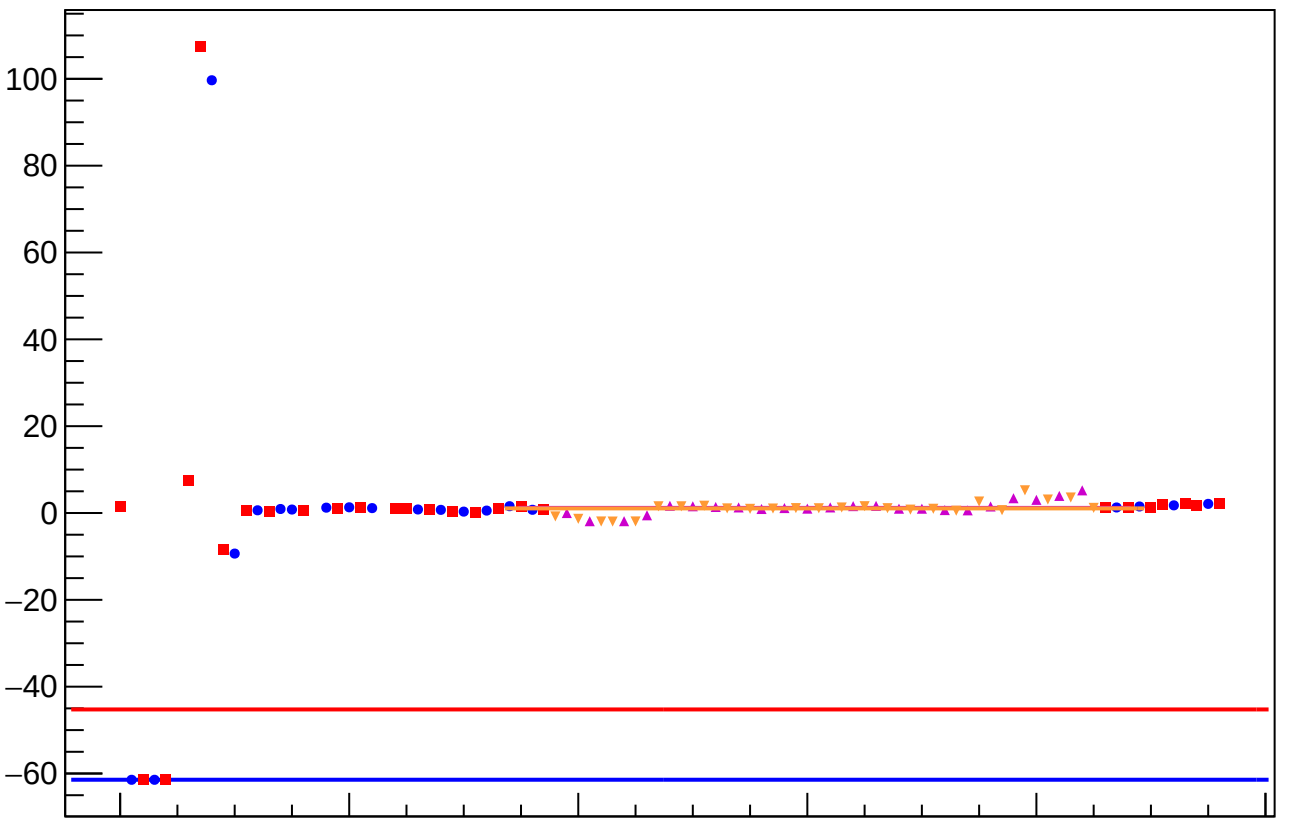
Right: 0.456+/-0.000 $\chi^2$/NDF: 8014433.6/45

In: 0.364+/-0.000 $\chi^2$/NDF:5385402.5/42

Out: 0.358+/-0.000 $\chi^2$/NDF:6601456.0/50

All: 0.361+/-0.000 $\chi^2$/NDF: 11993690.0/93

# yield_cav4dX_mean vs Slug, Sign Corrected




Right In: -61.436+/-0.000 $\chi^2$/NDF: 278276769551.7/19

Left Out: 1.059+/-0.000 $\chi^2$/NDF:253133917.4/24

Right Out: -45.245+/-0.000 $\chi^2$/NDF: 357875426190957.9/25

Left In: 1.175+/-0.000 $\chi^2$/NDF:182397676.2/22

Left: 1.114+/-0.000 $\chi^2$/NDF: 436074136.1/47

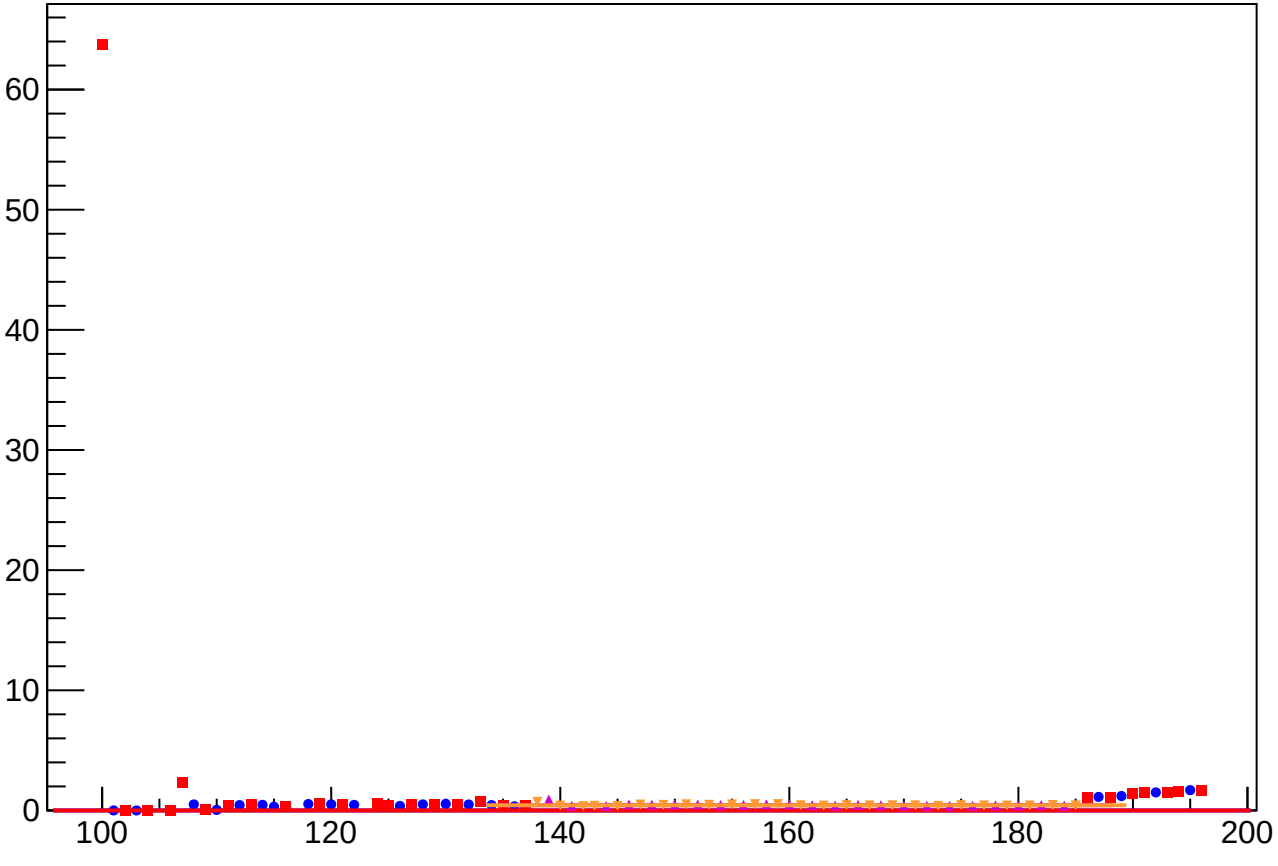
Right: -52.749+/-0.000 $\chi^2$/NDF: 409132336030245

In: -61.422+/-0.000 $\chi^2$/NDF:581141767322.8/42

Out: -45.235+/-0.000 $\chi^2$/NDF:358056708502161.2

All: -52.738+/-0.000 $\chi^2$/NDF: 40960174866

# yield_cav4dX_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 14080744.6/19

Left Out: 0.432+/-0.000 $\chi^2$/NDF:527546.3/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 17970827.3/25

Left In: 0.438+/-0.000 $\chi^2$/NDF:698702.2/22

Left: 0.435+/-0.000 $\chi^2$/NDF: 1229702.8/47

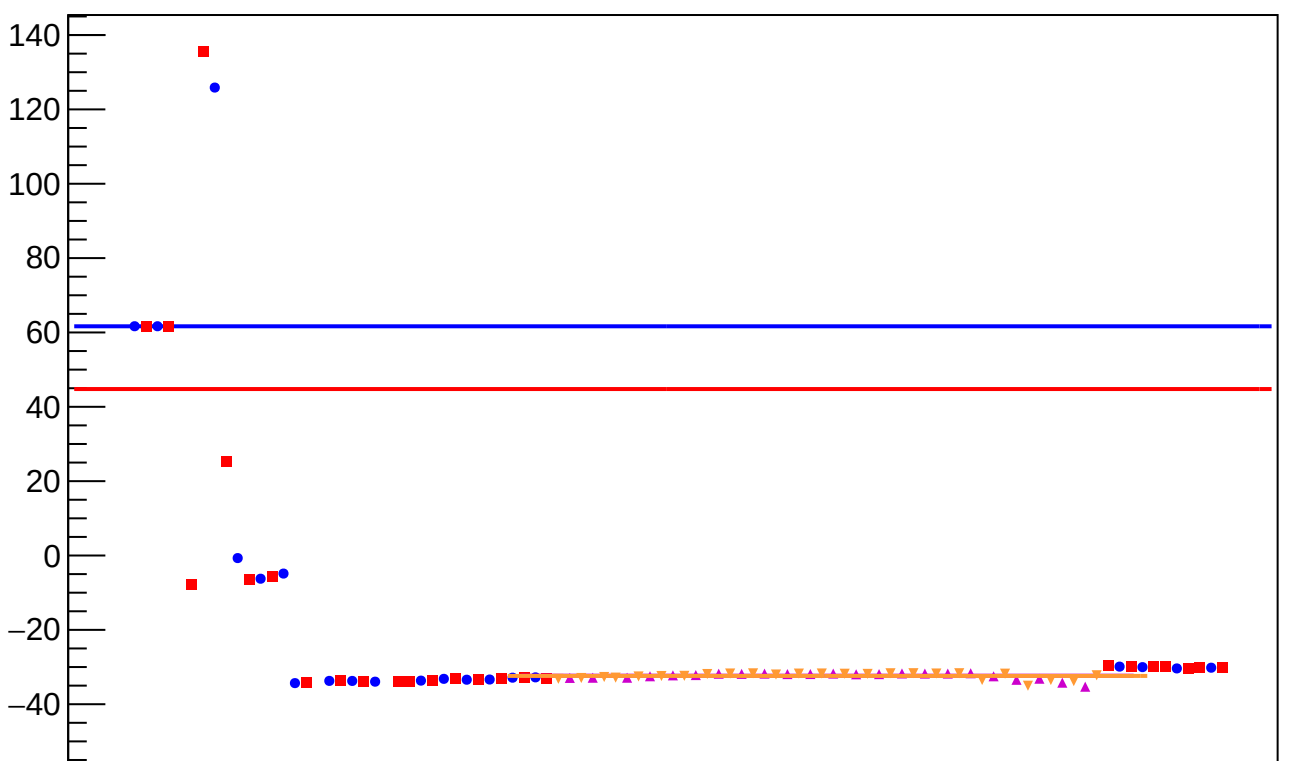
Right: 0.001+/-0.000 $\chi^2$/NDF: 32051571.9/45

In: 0.002+/-0.000 $\chi^2$/NDF:44222273.9/42

Out: 0.002+/-0.000 $\chi^2$/NDF:49736845.9/50

All: 0.002+/-0.000 $\chi^2$/NDF: 93959134.4/93

# yield_cav4dY_mean vs Slug, Sign Corrected




Right In: 61.657+/-0.000 $\chi^2$/NDF: 535535328966.9/19

Left Out: -32.386+/-0.000 $\chi^2$/NDF:172024234.9/24

Right Out: 44.779+/-0.000 $\chi^2$/NDF: 366283456860191.6/25

Left In: -32.325+/-0.000 $\chi^2$/NDF:118654391.5/22

Left: -32.356+/-0.000 $\chi^2$/NDF: 291084378.8/47

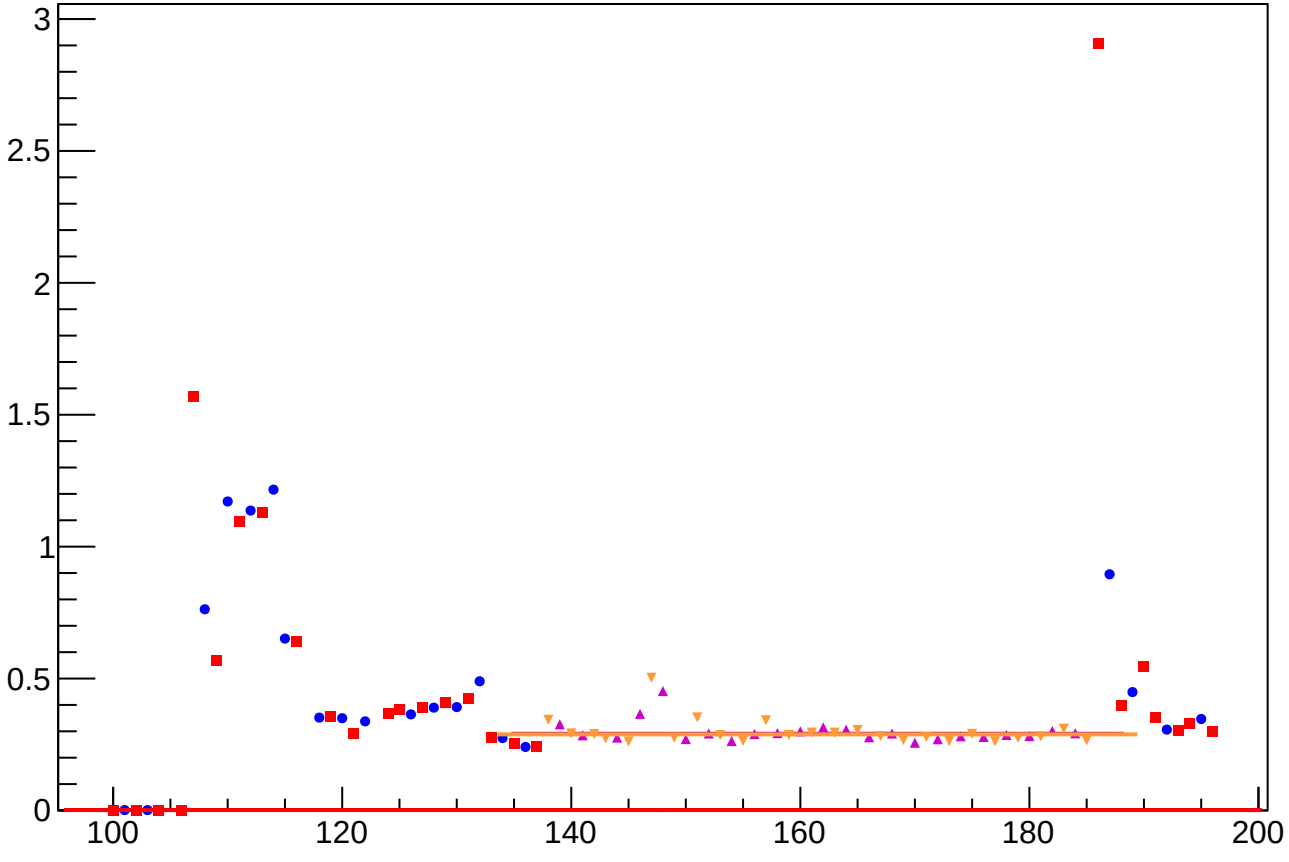
Right: 52.682+/-0.000 $\chi^2$/NDF: 417933884052203.2

In: 61.599+/-0.000 $\chi^2$/NDF:2359206288471.8/42

Out: 44.734+/-0.000 $\chi^2$/NDF:367601827031291.1

All: 52.632+/-0.000 $\chi^2$/NDF: 421028150595

# yield_cav4dY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 15878476.2/19

Left Out: 0.288+/-0.000 $\chi^2$/NDF:522979.2/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 18978790.4/25

Left In: 0.291+/-0.000 $\chi^2$/NDF:387524.5/22

Left: 0.290+/-0.000 $\chi^2$/NDF: 911587.8/47

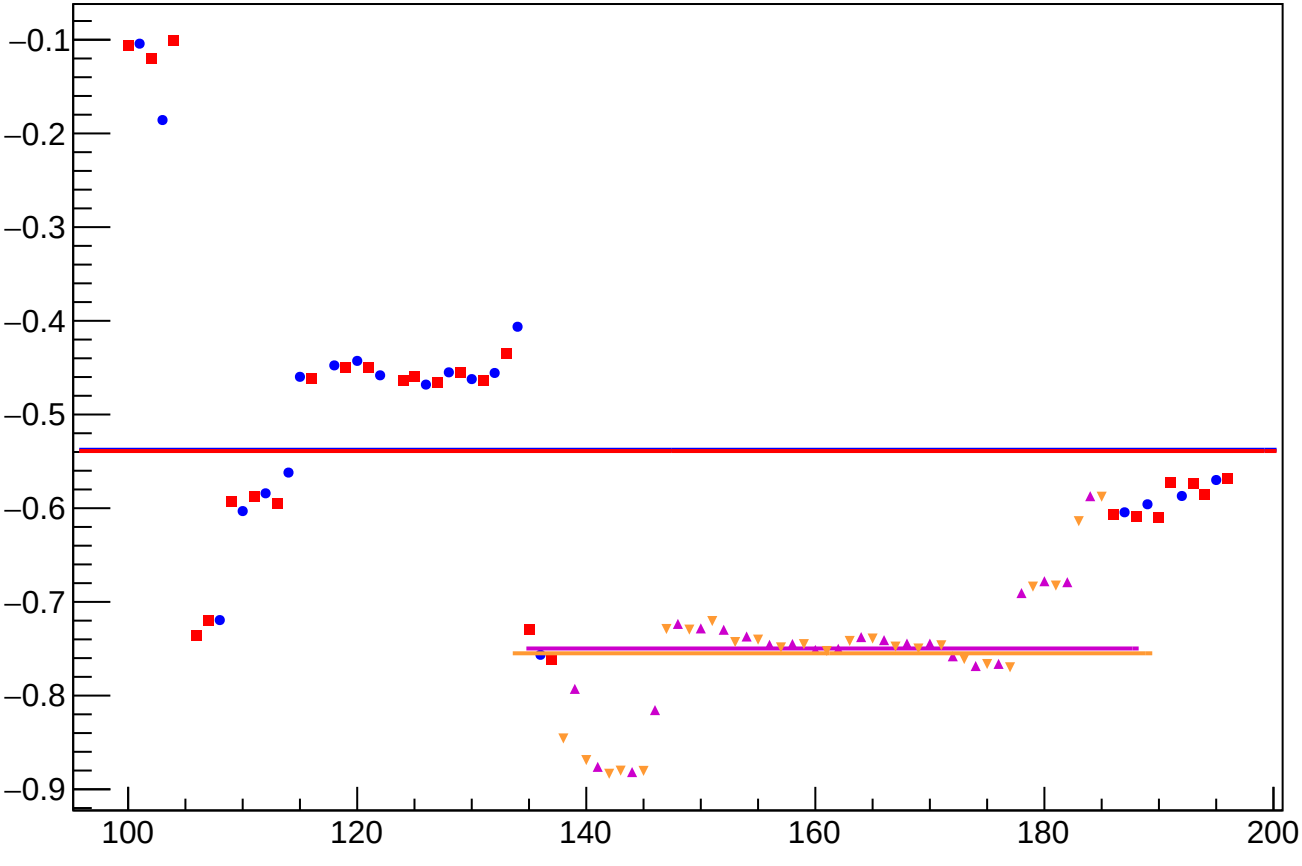
Right: 0.002+/-0.000 $\chi^2$/NDF: 34857557.2/45

In: 0.002+/-0.000 $\chi^2$/NDF:50784075.1/42

Out: 0.002+/-0.000 $\chi^2$/NDF:55932690.1/50

All: 0.002+/-0.000 $\chi^2$/NDF: 106716872.5/93

# yield_bpm4aX_mean vs Slug, Sign Corrected




Right In: -0.538+/-0.000 $\chi^2$/NDF: 302542527.3/19

Left Out: -0.755+/-0.000 $\chi^2$/NDF:212643091.8/24

Right Out: -0.539+/-0.000 $\chi^2$/NDF: 218579618.7/25

Left In: -0.750+/-0.000 $\chi^2$/NDF:140839352.1/22

Left: -0.752+/-0.000 $\chi^2$/NDF: 354065711.9/47

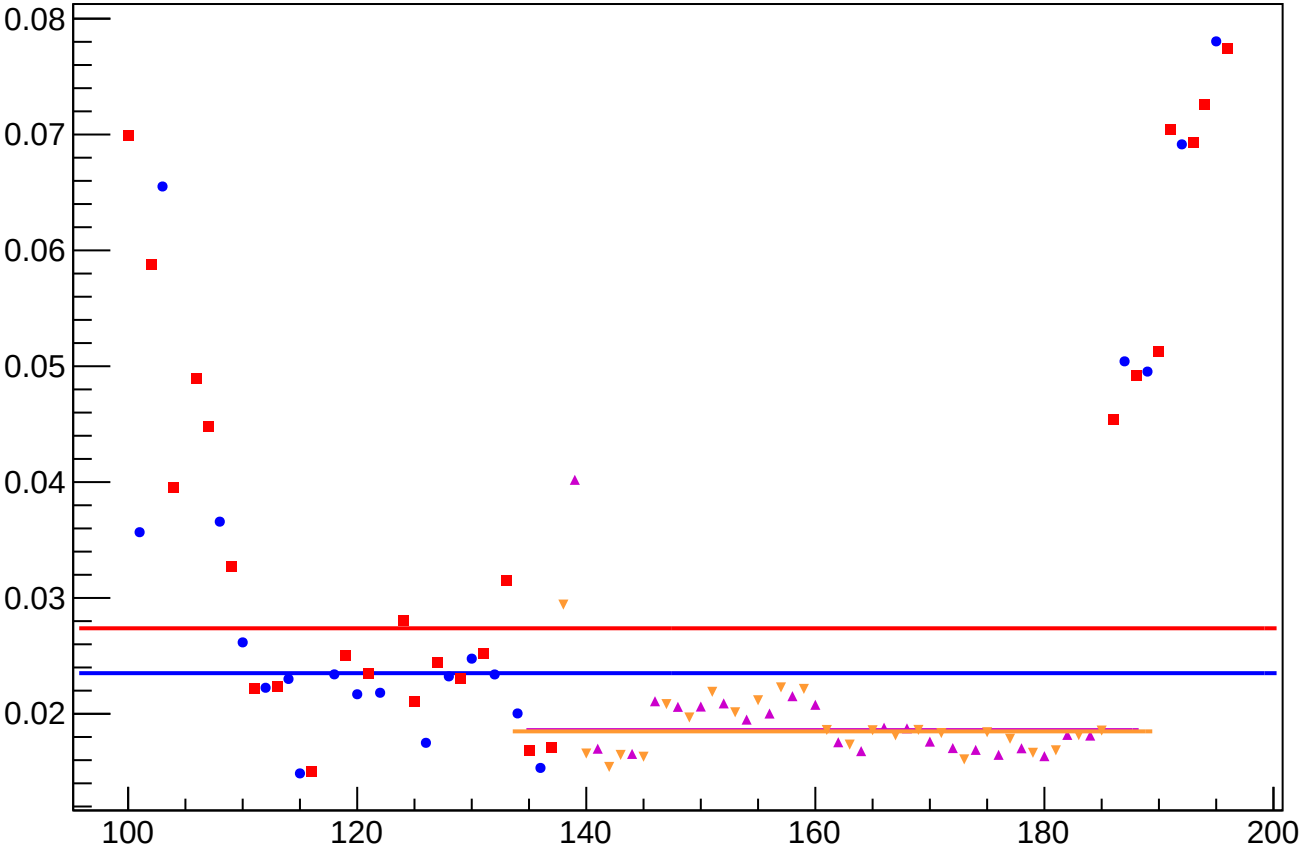
Right: -0.538+/-0.000 $\chi^2$/NDF: 521132801.7/45

In: -0.702+/-0.000 $\chi^2$/NDF:870631243.4/42

Out: -0.712+/-0.000 $\chi^2$/NDF:850135316.6/50

All: -0.707+/-0.000 $\chi^2$/NDF: 1723636092.3/9

# yield_bpm4aX_rms vs Slug, Sign Corrected




Right In: 0.024+/-0.000 $\chi^2$/NDF: 3271265.3/19

Left Out: 0.018+/-0.000 $\chi^2$/NDF:491665.0/24

Right Out: 0.027+/-0.000 $\chi^2$/NDF: 4278406.6/25

Left In: 0.019+/-0.000 $\chi^2$/NDF:739183.3/22

Left: 0.019+/-0.000 $\chi^2$/NDF: 1231372.8/47

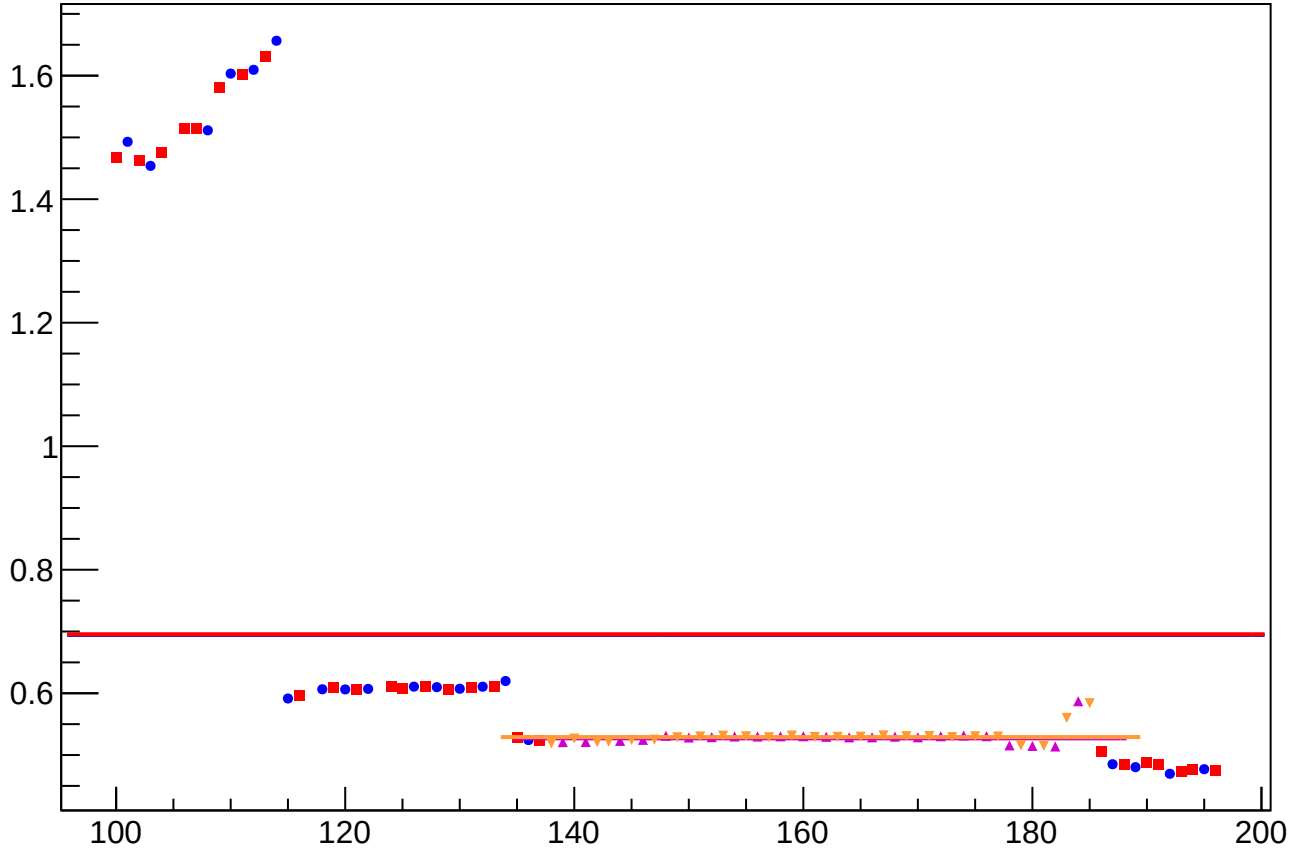
Right: 0.025+/-0.000 $\chi^2$/NDF: 7724985.3/45

In: 0.020+/-0.000 $\chi^2$/NDF:4469241.9/42

Out: 0.020+/-0.000 $\chi^2$/NDF:6192919.2/50

All: 0.020+/-0.000 $\chi^2$/NDF: 10678458.6/93

# yield_bpm4aY_mean vs Slug, Sign Corrected




Right In: 0.694+/-0.000 $\chi^2$/NDF: 4881780071.2/19

Left Out: 0.529+/-0.000 $\chi^2$/NDF:16236836.5/24

Right Out: 0.696+/-0.000 $\chi^2$/NDF: 5895499506.6/25

Left In: 0.527+/-0.000 $\chi^2$/NDF:13035326.4/22

Left: 0.528+/-0.000 $\chi^2$/NDF: 29556075.1/47

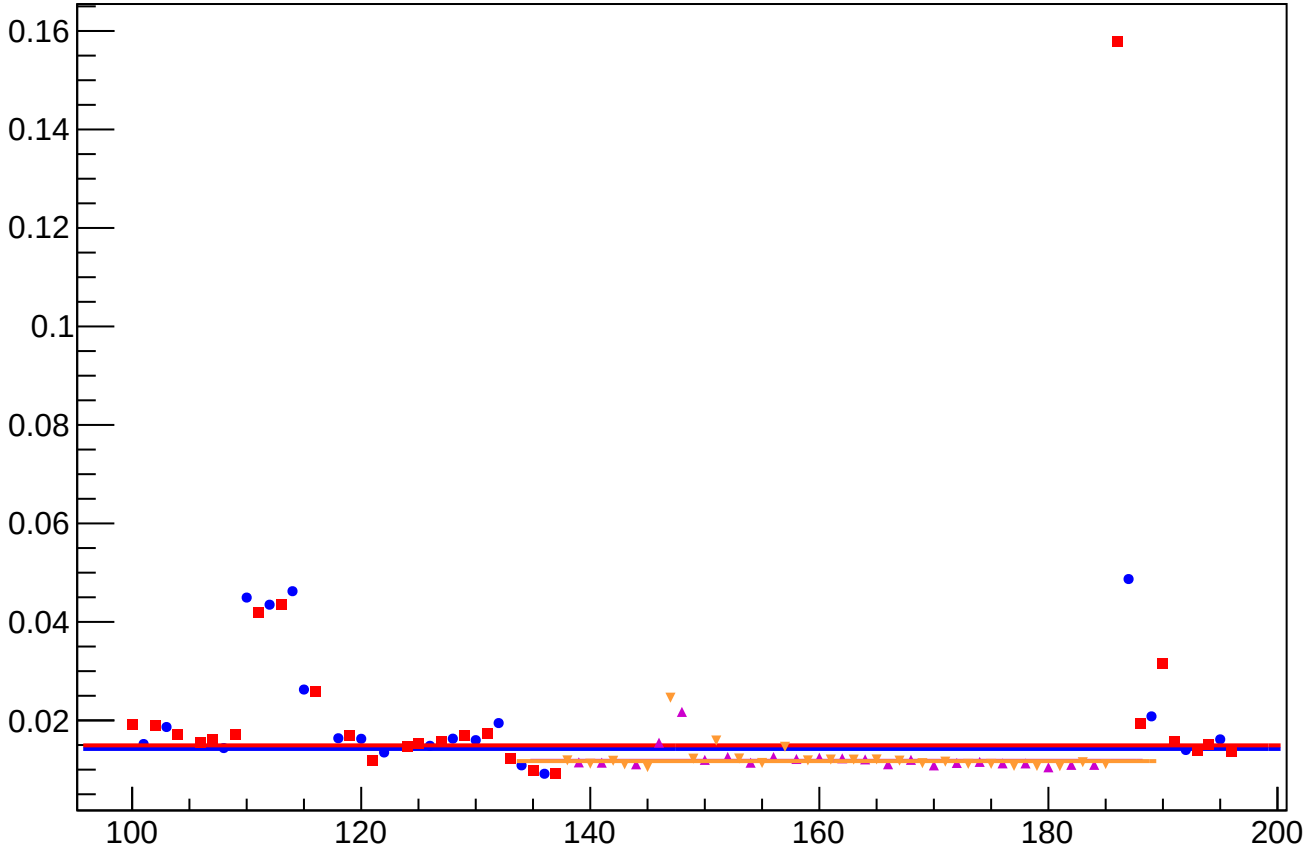
Right: 0.695+/-0.000 $\chi^2$/NDF: 10777301826.8/45

In: 0.568+/-0.000 $\chi^2$/NDF:5758399522.1/42

Out: 0.571+/-0.000 $\chi^2$/NDF:6843364104.5/50

All: 0.569+/-0.000 $\chi^2$/NDF: 12602482324.3/9

# yield_bpm4aY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1958430.6/19

Left Out: 0.012+/-0.000 $\chi^2$/NDF:699878.1/24

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 2376883.0/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:519826.8/22

Left: 0.012+/-0.000 $\chi^2$/NDF: 1220115.4/47

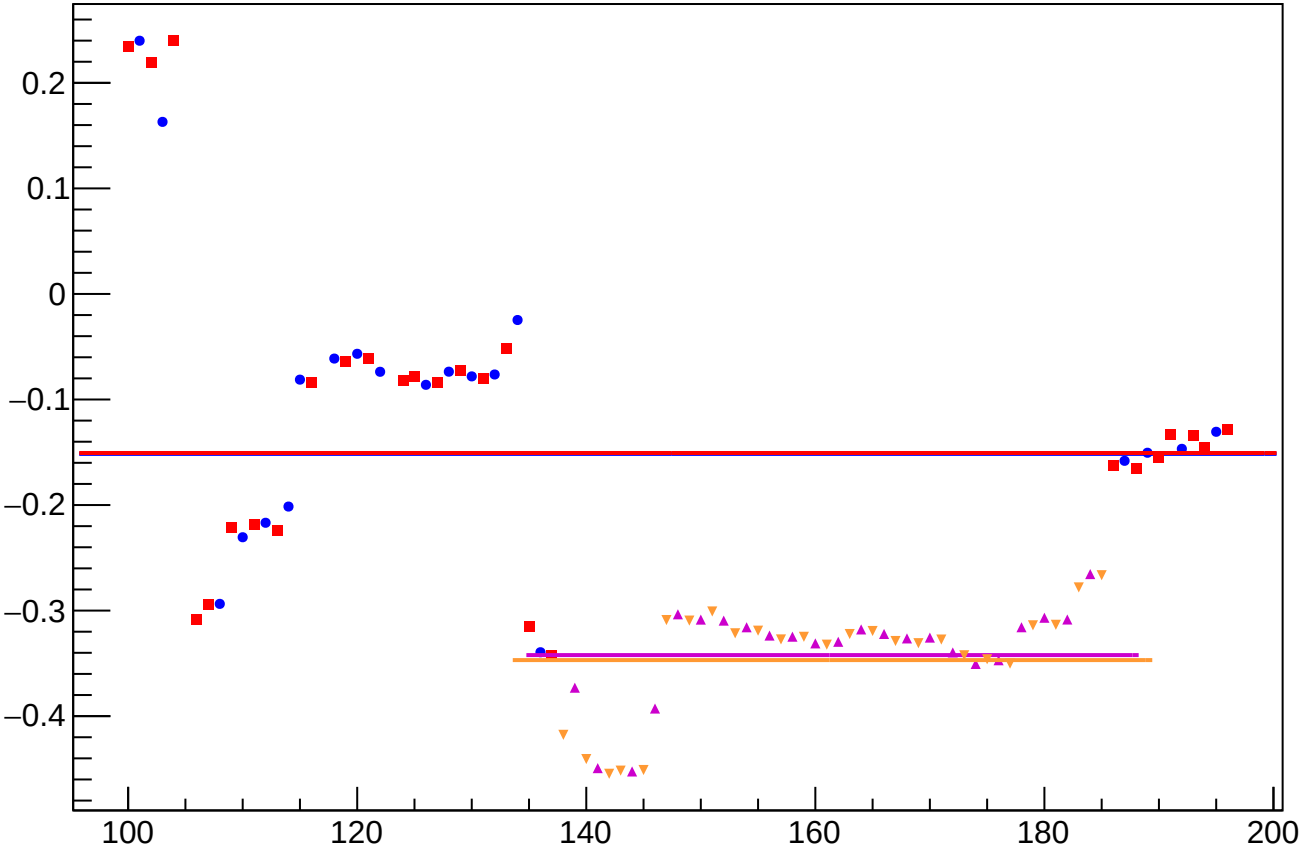
Right: 0.015+/-0.000 $\chi^2$/NDF: 4357716.5/45

In: 0.012+/-0.000 $\chi^2$/NDF:2837481.6/42

Out: 0.013+/-0.000 $\chi^2$/NDF:3763999.3/50

All: 0.012+/-0.000 $\chi^2$/NDF: 6605600.2/93

# yield_bpm4eX_mean vs Slug, Sign Corrected




Right In: -0.152+/-0.000 $\chi^2$/NDF: 276865957.8/19

Left Out: -0.347+/-0.000 $\chi^2$/NDF:125890246.2/24

Right Out: -0.151+/-0.000 $\chi^2$/NDF: 199652242.9/25

Left In: -0.342+/-0.000 $\chi^2$/NDF:88220744.3/22

Left: -0.345+/-0.000 $\chi^2$/NDF: 214611737.9/47

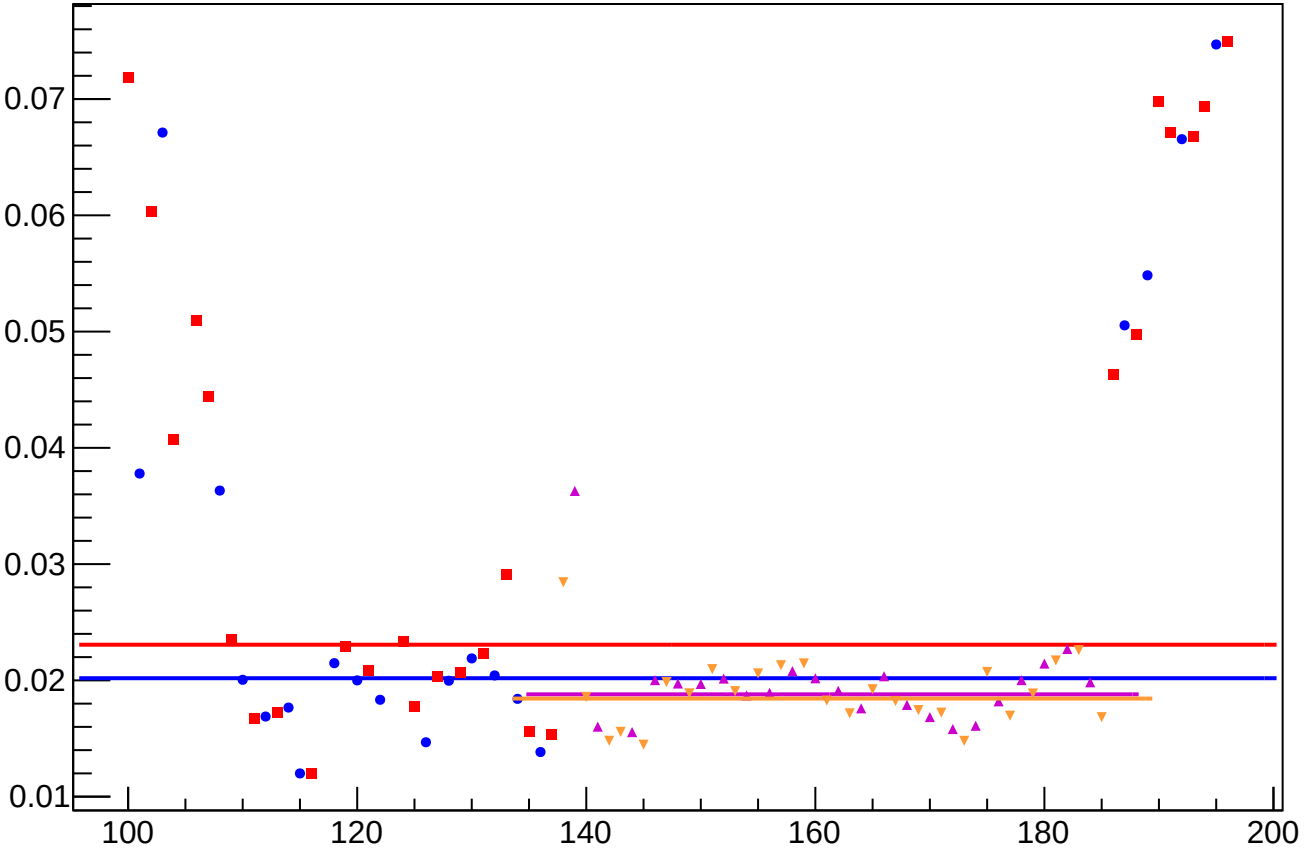
Right: -0.151+/-0.000 $\chi^2$/NDF: 476523597.0/45

In: -0.290+/-0.000 $\chi^2$/NDF:787670795.8/42

Out: -0.299+/-0.000 $\chi^2$/NDF:759877934.9/50

All: -0.295+/-0.000 $\chi^2$/NDF: 1550250906.5/9

# yield_bpm4eX_rms vs Slug, Sign Corrected




Right In: 0.020+/-0.000 $\chi^2$/NDF: 3803716.1/19

Left Out: 0.018+/-0.000 $\chi^2$/NDF:640029.5/24

Right Out: 0.023+/-0.000 $\chi^2$/NDF: 5256293.8/25

Left In: 0.019+/-0.000 $\chi^2$/NDF:718726.0/22

Left: 0.019+/-0.000 $\chi^2$/NDF: 1364603.4/47

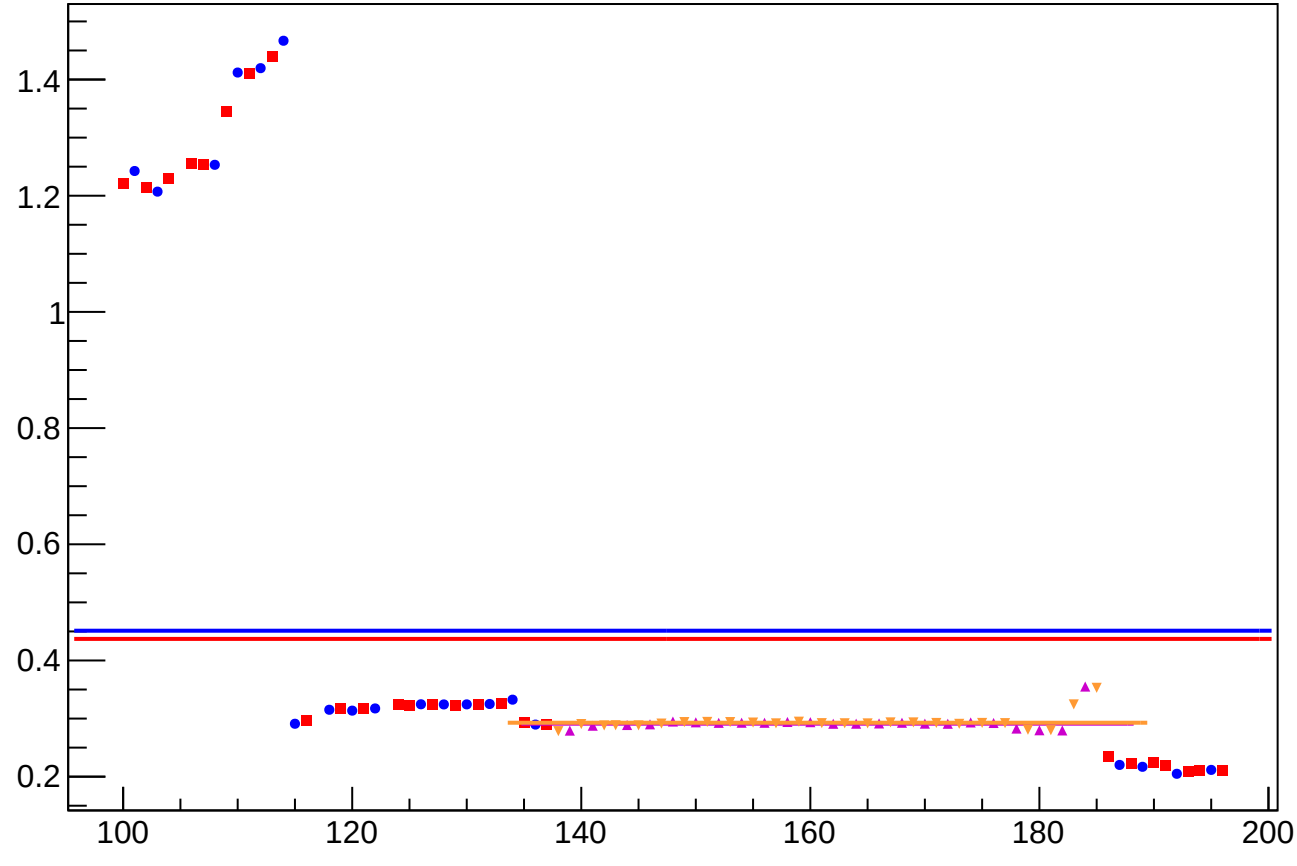
Right: 0.022+/-0.000 $\chi^2$/NDF: 9188005.4/45

In: 0.019+/-0.000 $\chi^2$/NDF:4567234.0/42

Out: 0.020+/-0.000 $\chi^2$/NDF:6380282.0/50

All: 0.019+/-0.000 $\chi^2$/NDF: 10956032.7/93

# yield_bpm4eY_mean vs Slug, Sign Corrected




Right In: 0.451+/-0.000 $\chi^2$/NDF: 7195453111.7/19

Left Out: 0.293+/-0.000 $\chi^2$/NDF:17281571.0/24

Right Out: 0.437+/-0.000 $\chi^2$/NDF: 8359738803.8/25

Left In: 0.291+/-0.000 $\chi^2$/NDF:10282762.1/22

Left: 0.292+/-0.000 $\chi^2$/NDF: 27773527.3/47

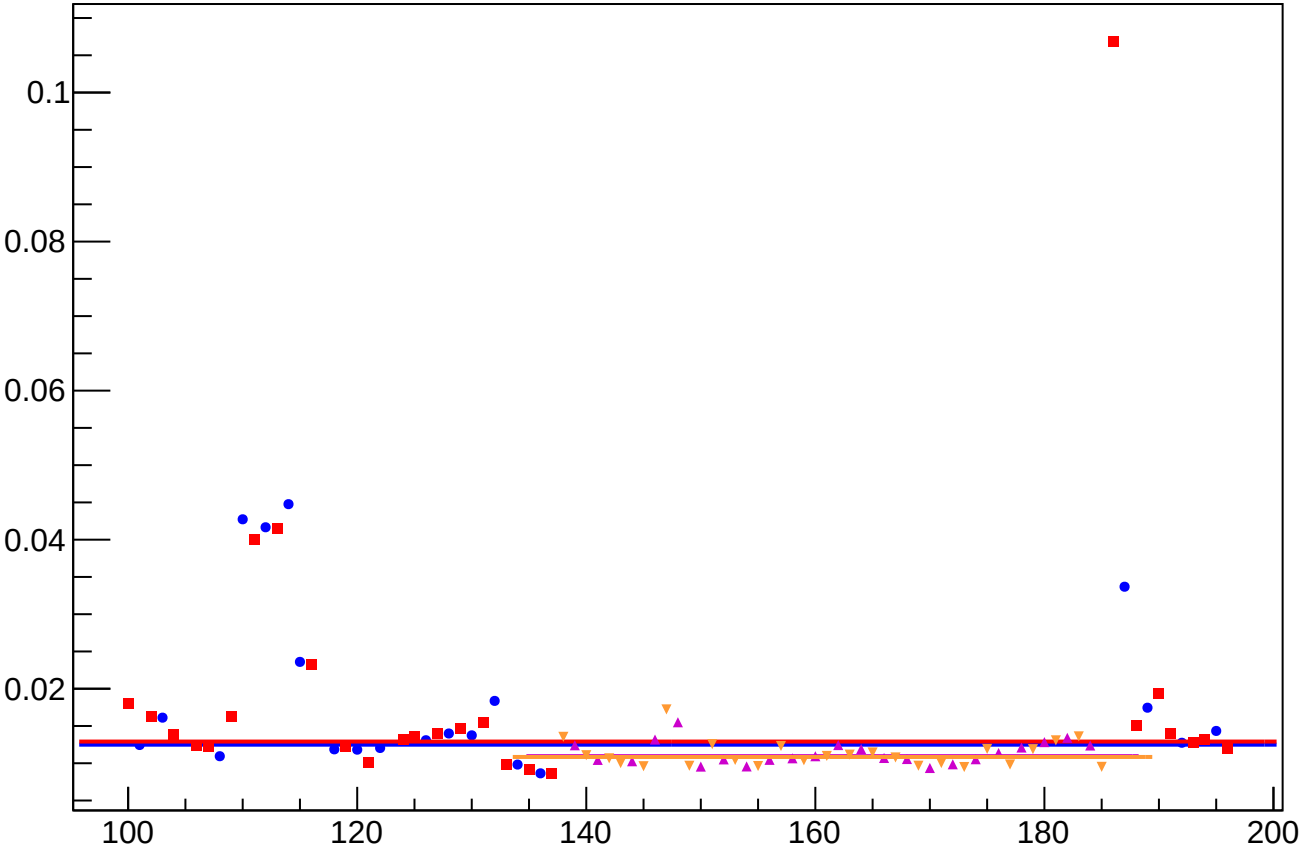
Right: 0.444+/-0.000 $\chi^2$/NDF: 15560796036.7/45

In: 0.334+/-0.000 $\chi^2$/NDF:8200610136.0/42

Out: 0.333+/-0.000 $\chi^2$/NDF:9278961922.4/50

All: 0.334+/-0.000 $\chi^2$/NDF: 17479712342.4/9

# yield_bpm4eY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1762627.9/19

Left Out: 0.011+/-0.000 $\chi^2$/NDF:654475.7/24

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2158180.6/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:512130.1/22

Left: 0.011+/-0.000 $\chi^2$/NDF: 1168468.8/47

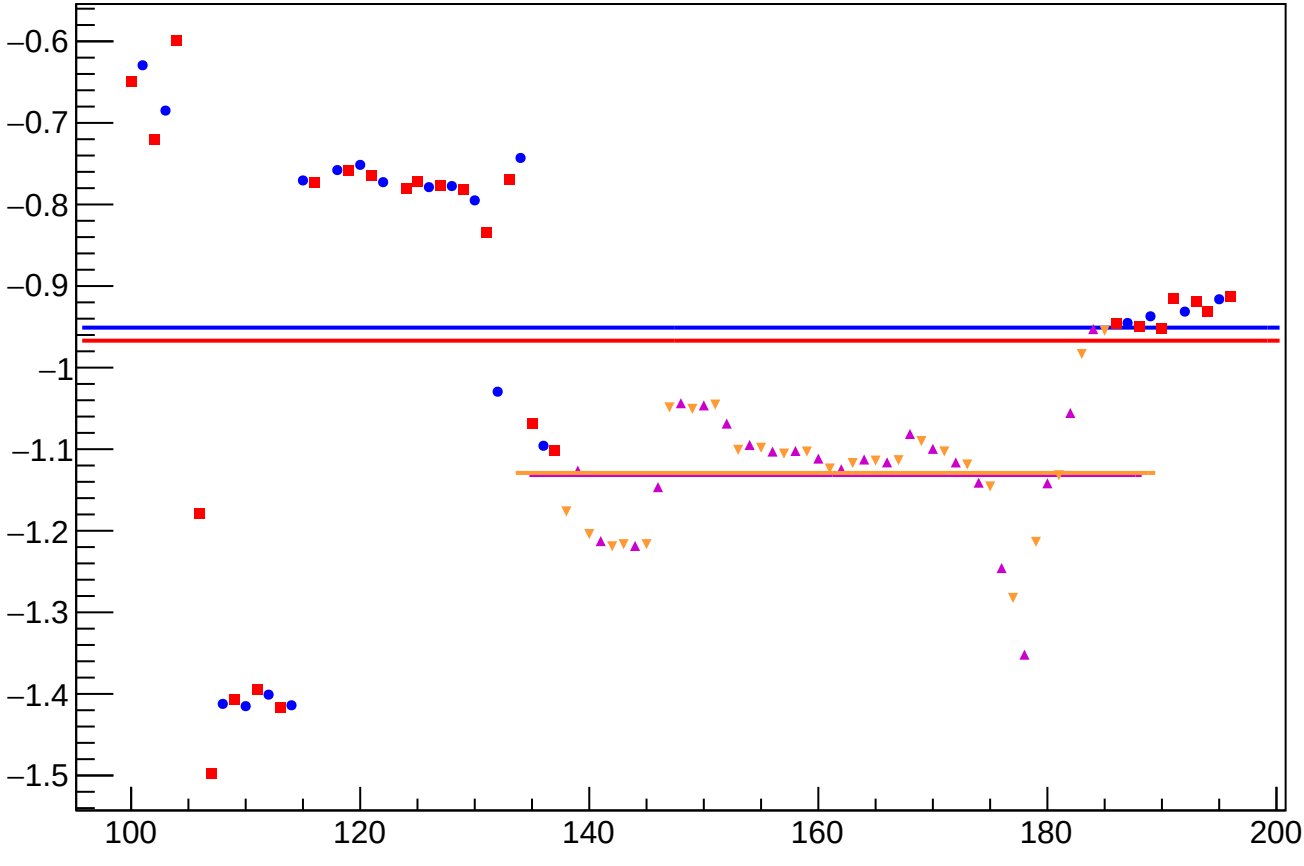
Right: 0.013+/-0.000 $\chi^2$/NDF: 3930697.4/45

In: 0.011+/-0.000 $\chi^2$/NDF:2458024.0/42

Out: 0.011+/-0.000 $\chi^2$/NDF:3182702.3/50

All: 0.011+/-0.000 $\chi^2$/NDF: 5641261.4/93

# yield_bpm4acX_mean vs Slug, Sign Corrected




Right In: -0.951+/-0.000 $\chi^2$/NDF: 699780215.8/19

Left Out: -1.129+/-0.000 $\chi^2$/NDF:238152679.4/24

Right Out: -0.967+/-0.000 $\chi^2$/NDF: 716043580.7/25

Left In: -1.132+/-0.000 $\chi^2$/NDF:260075820.5/22

Left: -1.130+/-0.000 $\chi^2$/NDF: 498379456.8/47

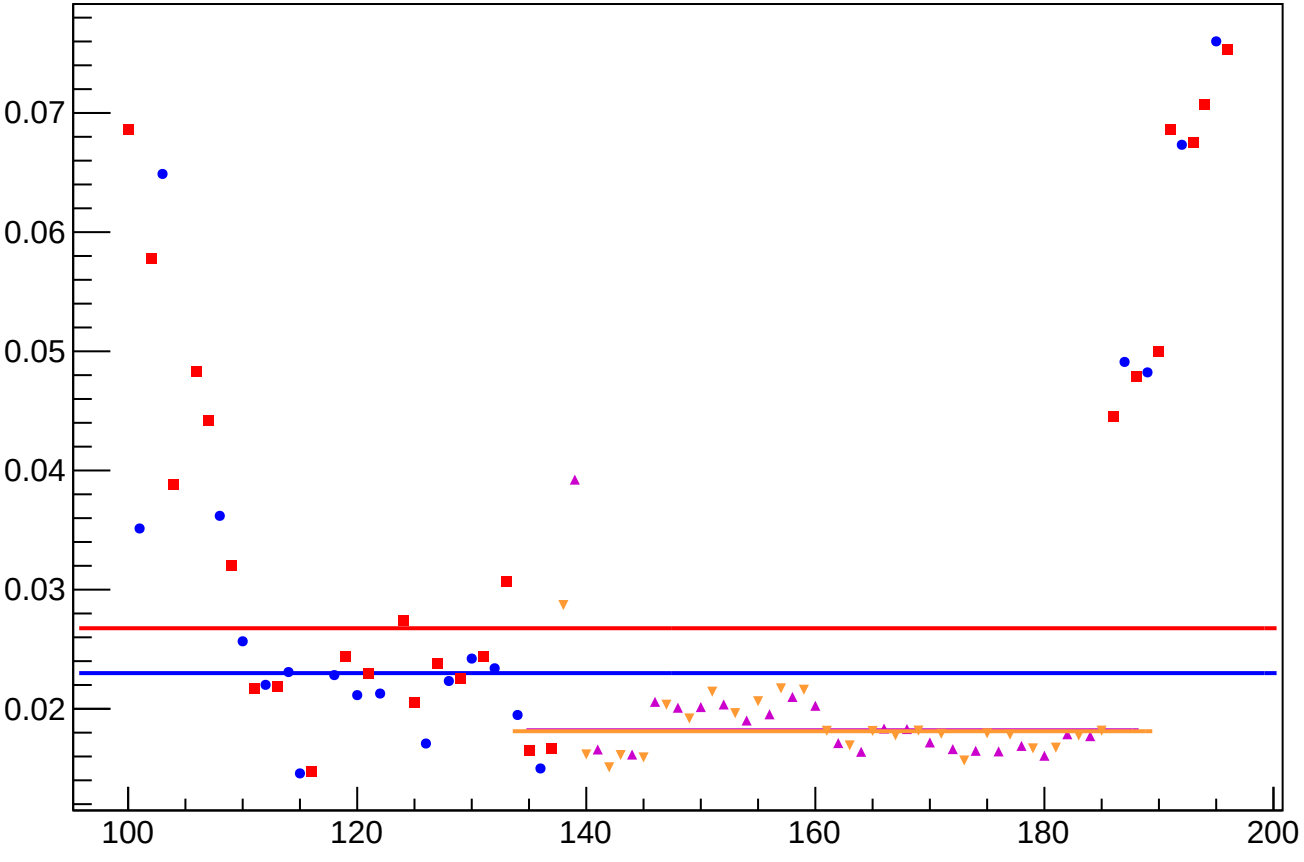
Right: -0.959+/-0.000 $\chi^2$/NDF: 1417385255.9/45

In: -1.091+/-0.000 $\chi^2$/NDF:1283750237.7/42

Out: -1.097+/-0.000 $\chi^2$/NDF:1200899895.0/50

All: -1.094+/-0.000 $\chi^2$/NDF: 2485650842.9/9

# yield_bpm4acX_rms vs Slug, Sign Corrected




Right In: 0.023+/-0.000 $\chi^2$/NDF: 3274516.5/19

Left Out: 0.018+/-0.000 $\chi^2$/NDF:474004.4/24

Right Out: 0.027+/-0.000 $\chi^2$/NDF: 4270990.9/25

Left In: 0.018+/-0.000 $\chi^2$/NDF:723957.3/22

Left: 0.018+/-0.000 $\chi^2$/NDF: 1198259.9/47

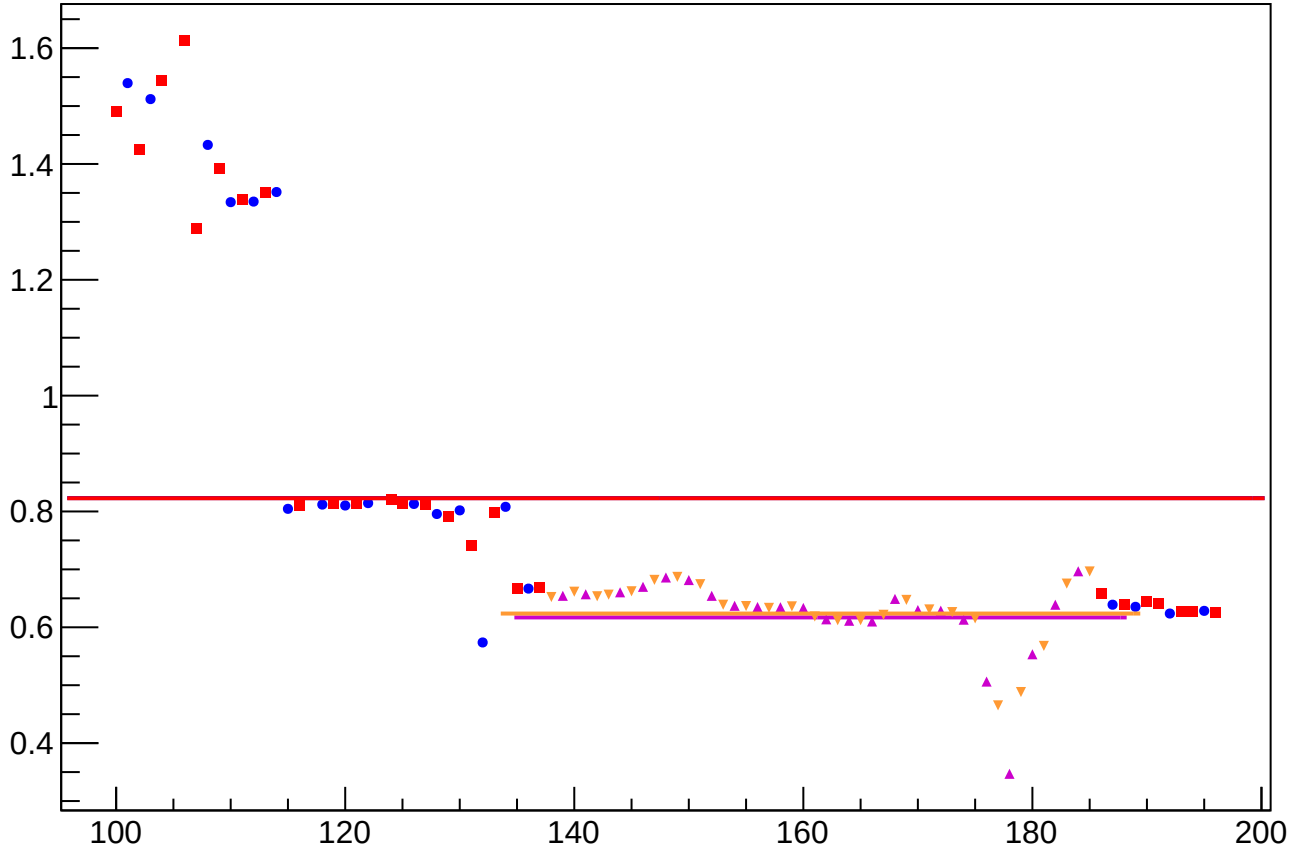
Right: 0.025+/-0.000 $\chi^2$/NDF: 7718705.4/45

In: 0.019+/-0.000 $\chi^2$/NDF:4454756.9/42

Out: 0.020+/-0.000 $\chi^2$/NDF:6146940.8/50

All: 0.020+/-0.000 $\chi^2$/NDF: 10619396.0/93

# yield_bpm4acY_mean vs Slug, Sign Corrected




Right In: 0.823+/-0.000 $\chi^2$/NDF: 3250535903.3/19

Left Out: 0.624+/-0.000 $\chi^2$/NDF:400613435.2/24

Right Out: 0.823+/-0.000 $\chi^2$/NDF: 3658634046.4/25

Left In: 0.617+/-0.000 $\chi^2$/NDF:646297442.3/22

Left: 0.620+/-0.000 $\chi^2$/NDF: 1049789293.9/47

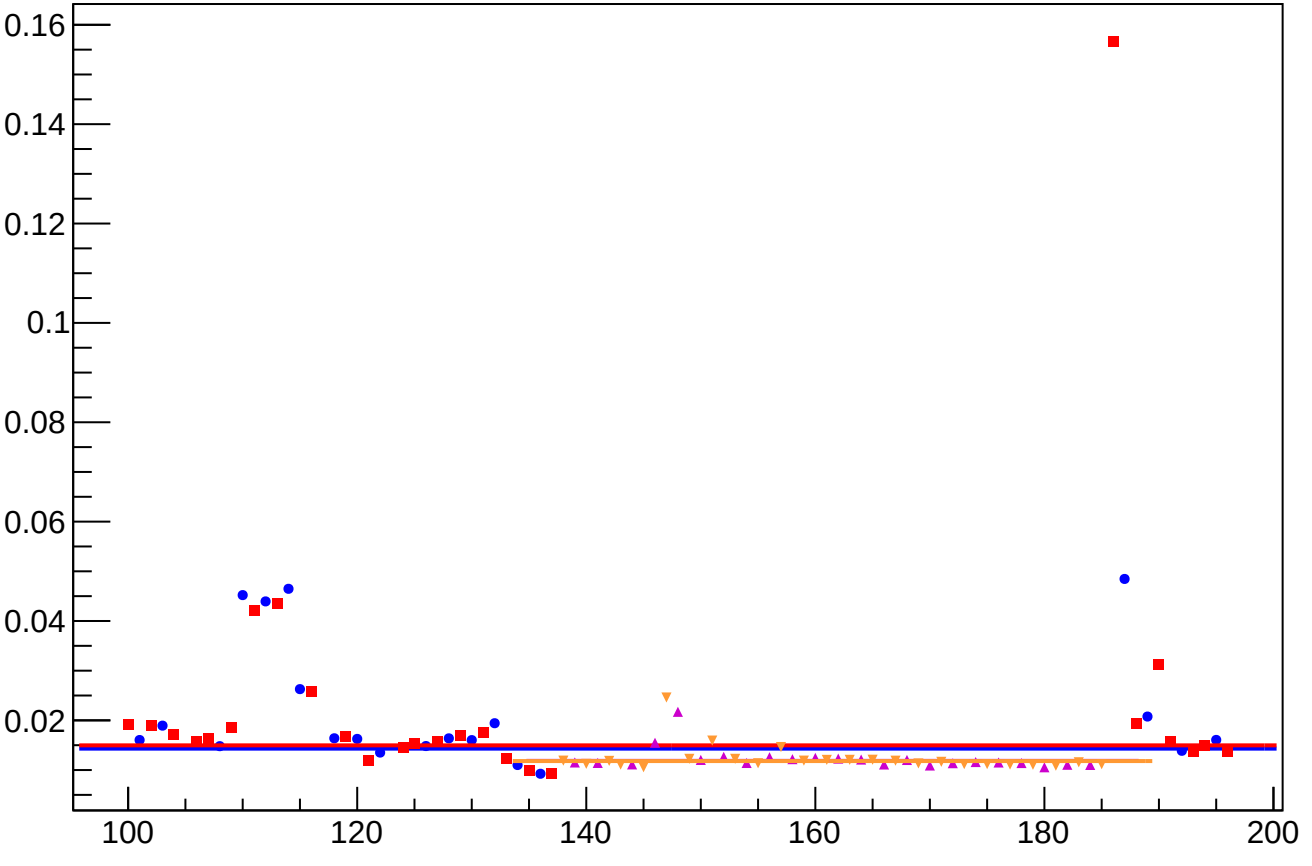
Right: 0.823+/-0.000 $\chi^2$/NDF: 6909171402.3/45

In: 0.667+/-0.000 $\chi^2$/NDF:5183622026.5/42

Out: 0.674+/-0.000 $\chi^2$/NDF:5379662787.1/50

All: 0.670+/-0.000 $\chi^2$/NDF: 10567188327.5/9

# yield_bpm4acY_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1943959.6/19

Left Out: 0.012+/-0.000 $\chi^2$/NDF:673680.7/24

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 2381303.9/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:508762.0/22

Left: 0.012+/-0.000 $\chi^2$/NDF: 1182628.0/47

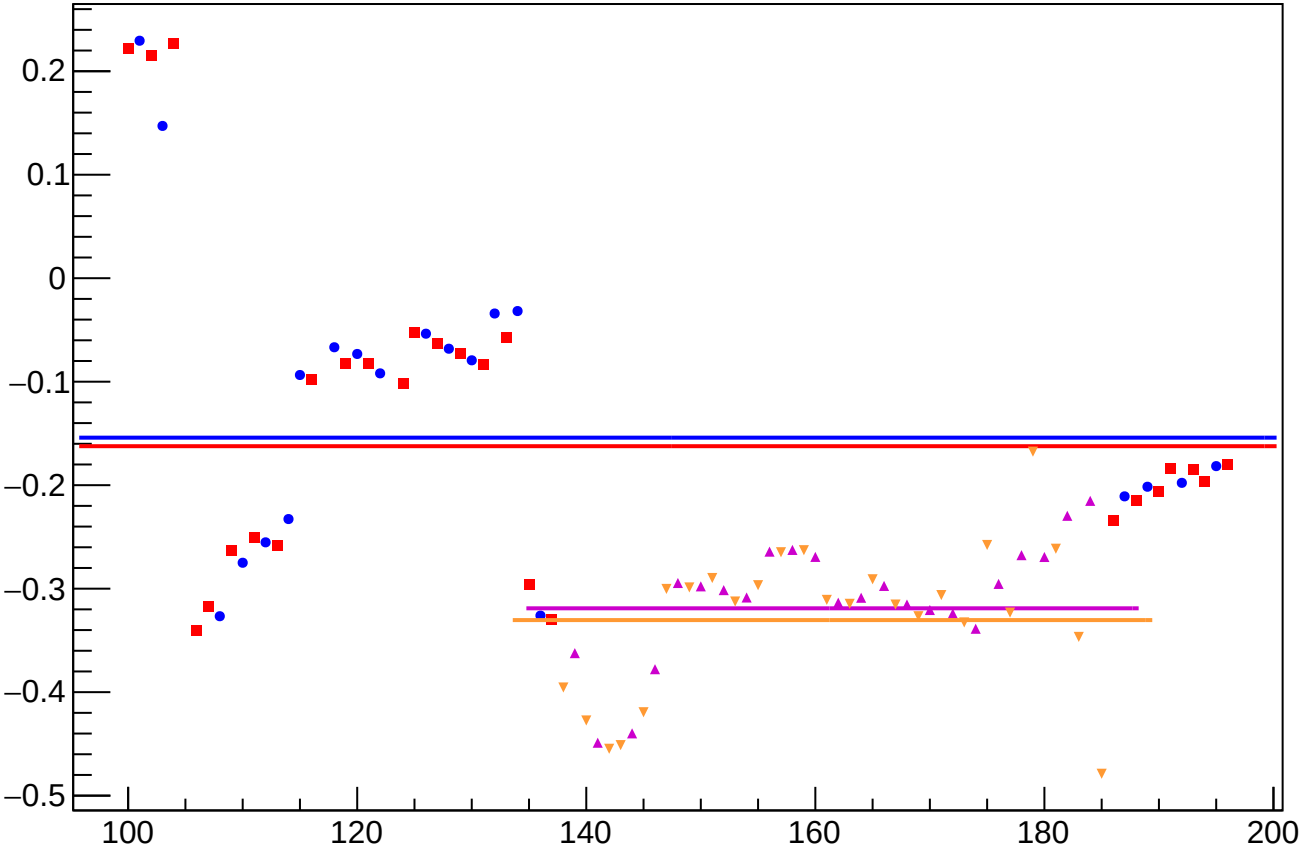
Right: 0.015+/-0.000 $\chi^2$/NDF: 4343484.9/45

In: 0.012+/-0.000 $\chi^2$/NDF:2821294.6/42

Out: 0.013+/-0.000 $\chi^2$/NDF:3720843.4/50

All: 0.013+/-0.000 $\chi^2$/NDF: 6546431.4/93

# yield_bpm4ecX_mean vs Slug, Sign Corrected




Right In: -0.154+/-0.000 $\chi^2$/NDF: 275394165.5/19

Left Out: -0.330+/-0.000 $\chi^2$/NDF:182729419.2/24

Right Out: -0.162+/-0.000 $\chi^2$/NDF: 198171917.3/25

Left In: -0.319+/-0.000 $\chi^2$/NDF:130589173.8/22

Left: -0.325+/-0.000 $\chi^2$/NDF: 316163358.3/47

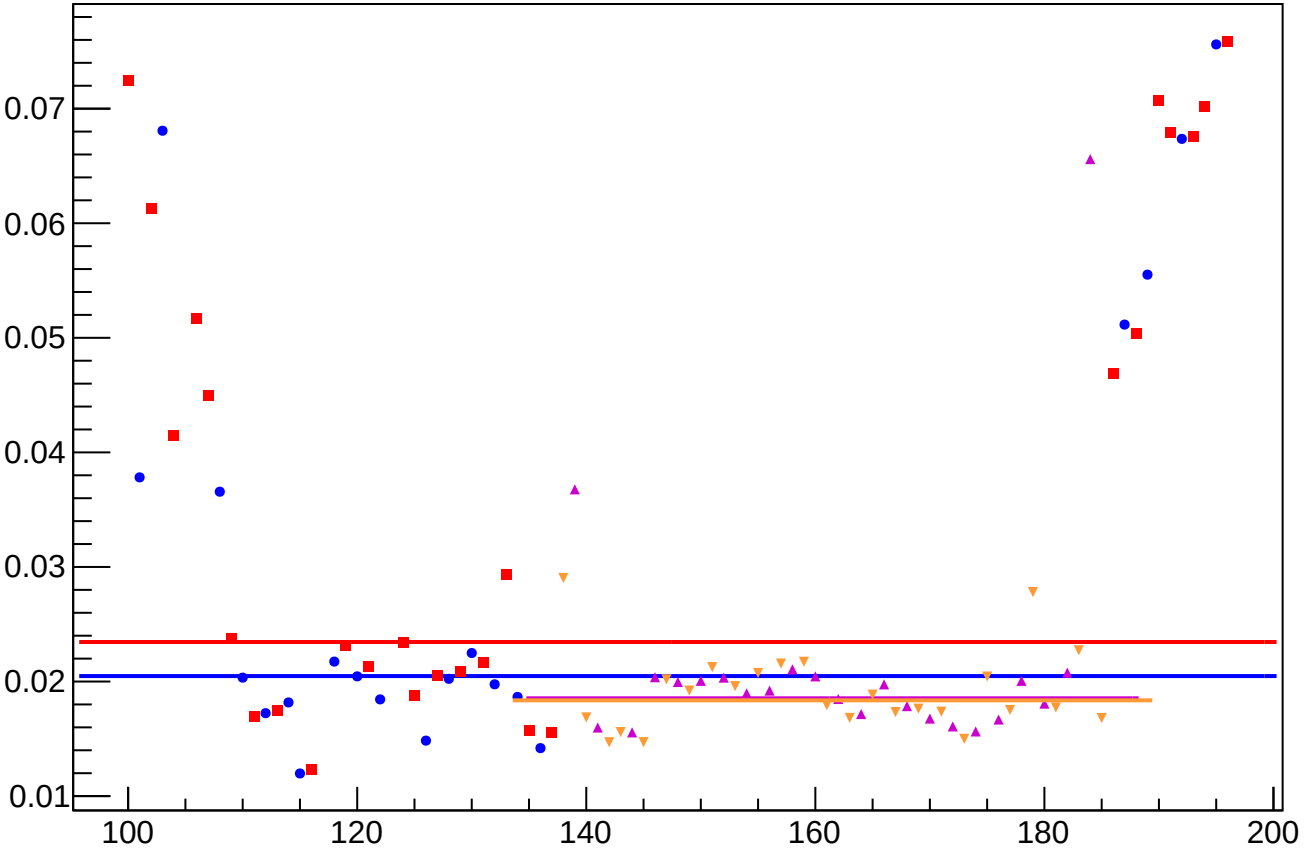
Right: -0.158+/-0.000 $\chi^2$/NDF: 474075881.2/45

In: -0.275+/-0.000 $\chi^2$/NDF:715791076.6/42

Out: -0.290+/-0.000 $\chi^2$/NDF:690092904.1/50

All: -0.282+/-0.000 $\chi^2$/NDF: 1412883862.4/9

# yield_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 0.020+/-0.000 $\chi^2$/NDF: 3776380.0/19

Left Out: 0.018+/-0.000 $\chi^2$/NDF:737503.8/24

Right Out: 0.023+/-0.000 $\chi^2$/NDF: 5222747.0/25

Left In: 0.019+/-0.000 $\chi^2$/NDF:933807.9/22

Left: 0.018+/-0.000 $\chi^2$/NDF: 1672700.6/47

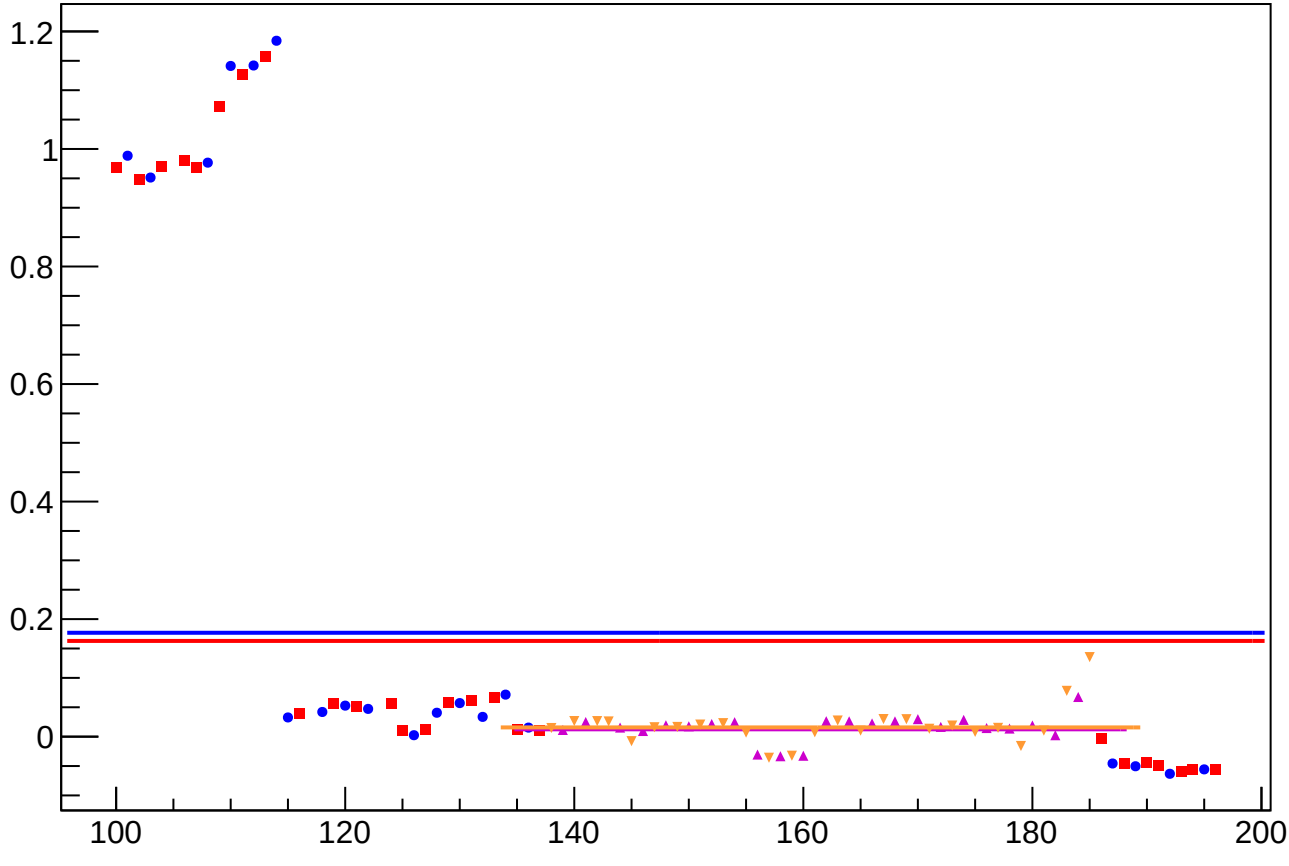
Right: 0.022+/-0.000 $\chi^2$/NDF: 9131451.5/45

In: 0.019+/-0.000 $\chi^2$/NDF:4795931.9/42

Out: 0.020+/-0.000 $\chi^2$/NDF:6527824.9/50

All: 0.019+/-0.000 $\chi^2$/NDF: 11339819.9/93

# yield_bpm4ecY_mean vs Slug, Sign Corrected




Right In: 0.177+/-0.000 $\chi^2$/NDF: 7336905072.7/19

Left Out: 0.016+/-0.000 $\chi^2$/NDF:104485335.8/24

Right Out: 0.163+/-0.000 $\chi^2$/NDF: 8304153406.6/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:58674739.1/22

Left: 0.014+/-0.000 $\chi^2$/NDF: 163971847.3/47

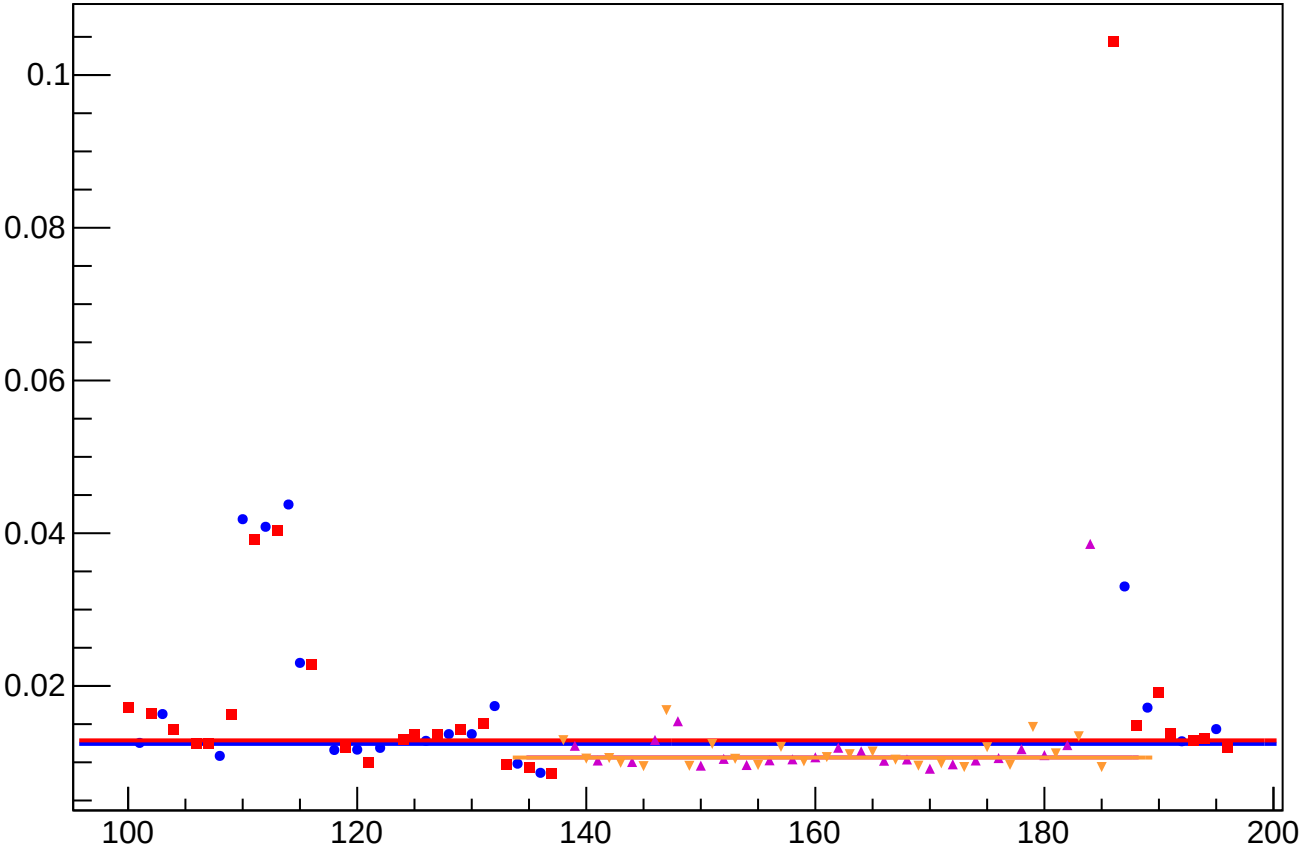
Right: 0.169+/-0.000 $\chi^2$/NDF: 15646547295.9/45

In: 0.056+/-0.000 $\chi^2$/NDF:8465041362.7/42

Out: 0.056+/-0.000 $\chi^2$/NDF:9356018425.6/50

All: 0.056+/-0.000 $\chi^2$/NDF: 17821096823.3/9

# yield_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1728312.9/19

Left Out: 0.011+/-0.000 $\chi^2$/NDF:622208.3/24

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2103260.8/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:571950.9/22

Left: 0.011+/-0.000 $\chi^2$/NDF: 1194217.8/47

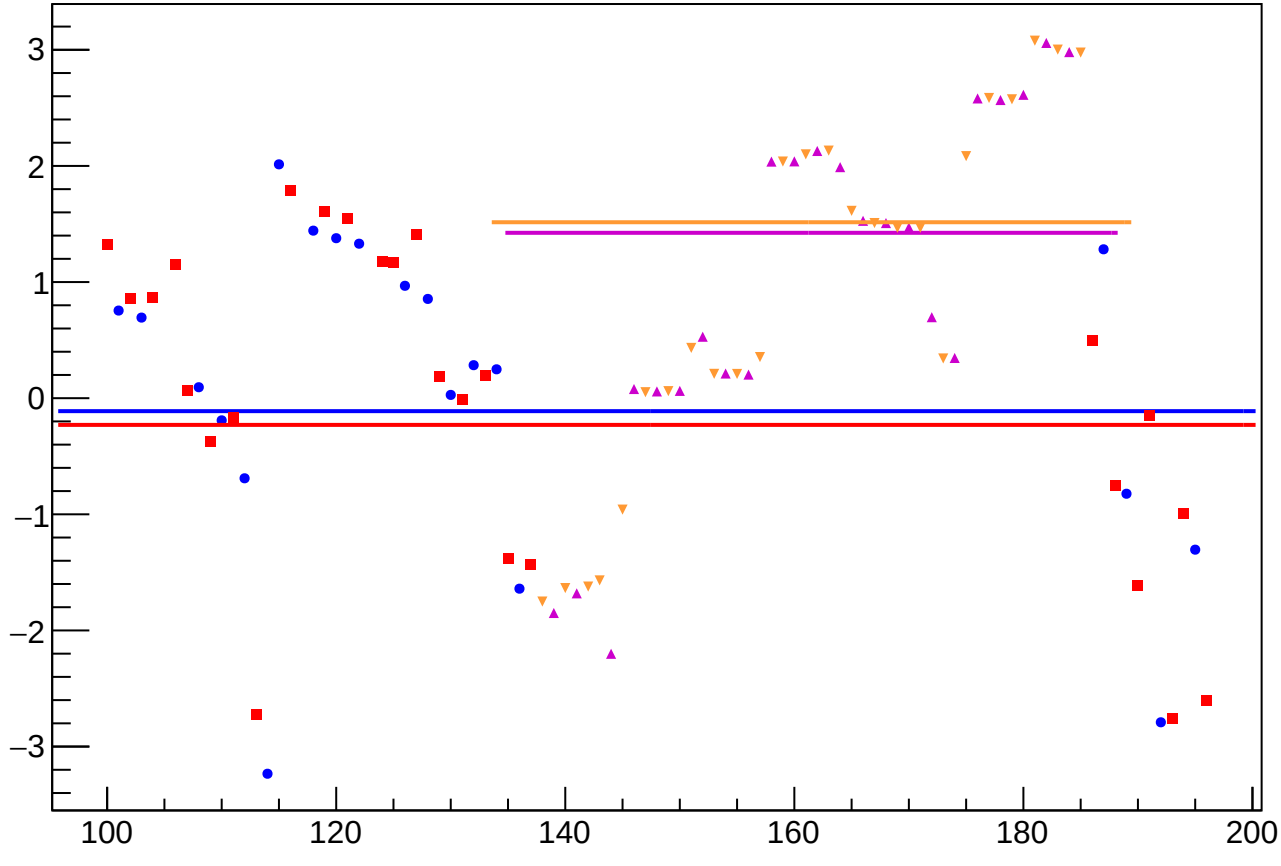
Right: 0.013+/-0.000 $\chi^2$/NDF: 3843471.7/45

In: 0.011+/-0.000 $\chi^2$/NDF:2549287.6/42

Out: 0.011+/-0.000 $\chi^2$/NDF:3168102.3/50

All: 0.011+/-0.000 $\chi^2$/NDF: 5721224.5/93

# yield_bpm1X_mean vs Slug, Sign Corrected




Right In: -0.112+/-0.000 $\chi^2$/NDF: 4218749567.1/19

Left Out: 1.515+/-0.000 $\chi^2$/NDF:67789388512.2/24

Right Out: -0.230+/-0.000 $\chi^2$/NDF: 5061354091.3/25

Left In: 1.424+/-0.000 $\chi^2$/NDF:68046262594.0/22

Left: 1.469+/-0.000 $\chi^2$/NDF: 136089936937.5/47

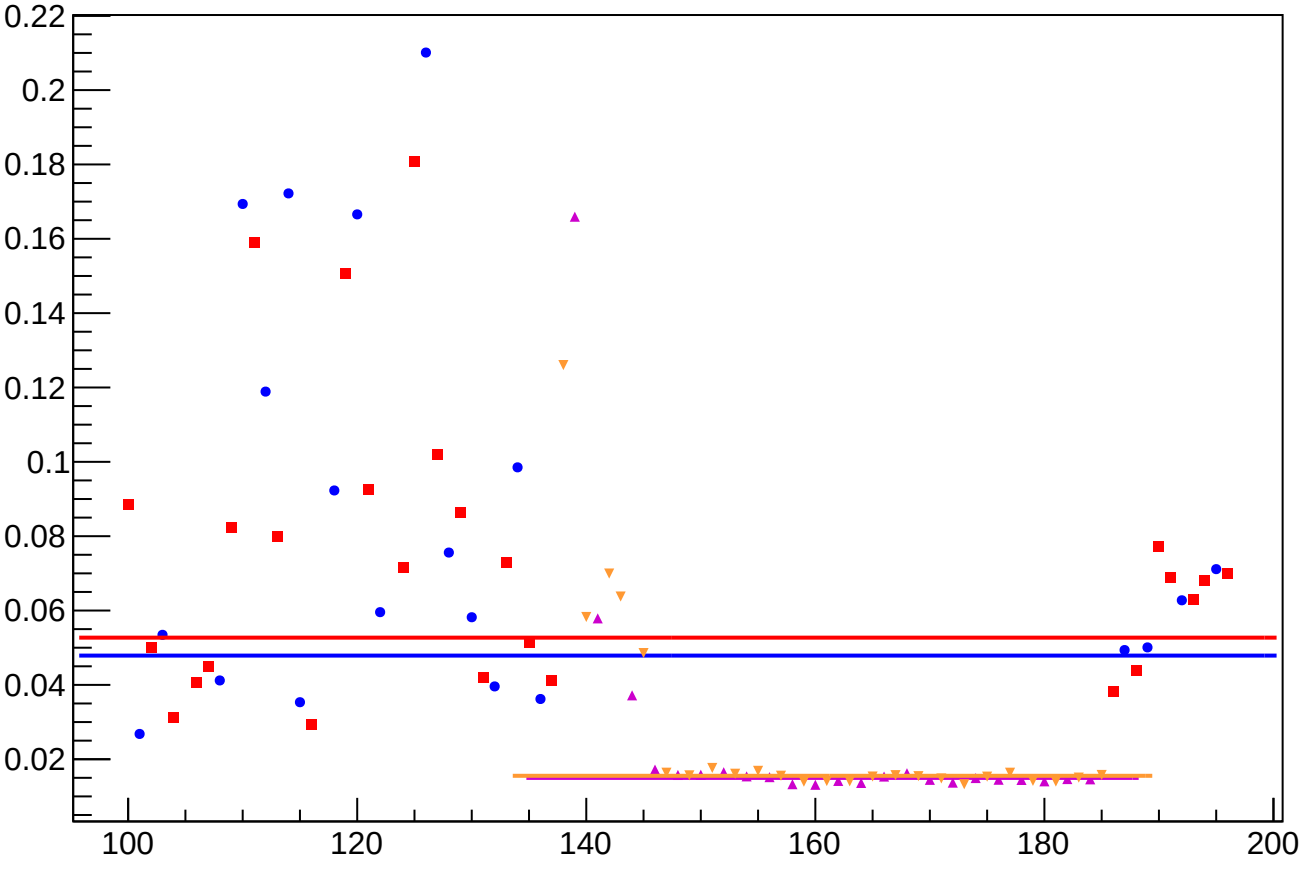
Right: -0.175+/-0.000 $\chi^2$/NDF: 9299700000.8/45

In: 1.362+/-0.000 $\chi^2$/NDF:78213411805.7/42

Out: 1.433+/-0.000 $\chi^2$/NDF:81523452149.3/50

All: 1.397+/-0.000 $\chi^2$/NDF: 159900579468.4

# yield_bpm1X_rms vs Slug, Sign Corrected




Right In: 0.048+/-0.000 $\chi^2$/NDF: 3128164.9/19

Left Out: 0.016+/-0.000 $\chi^2$/NDF:2984313.0/24

Right Out: 0.053+/-0.000 $\chi^2$/NDF: 2858279.2/25

Left In: 0.015+/-0.000 $\chi^2$/NDF:2182916.7/22

Left: 0.015+/-0.000 $\chi^2$/NDF: 5187209.1/47

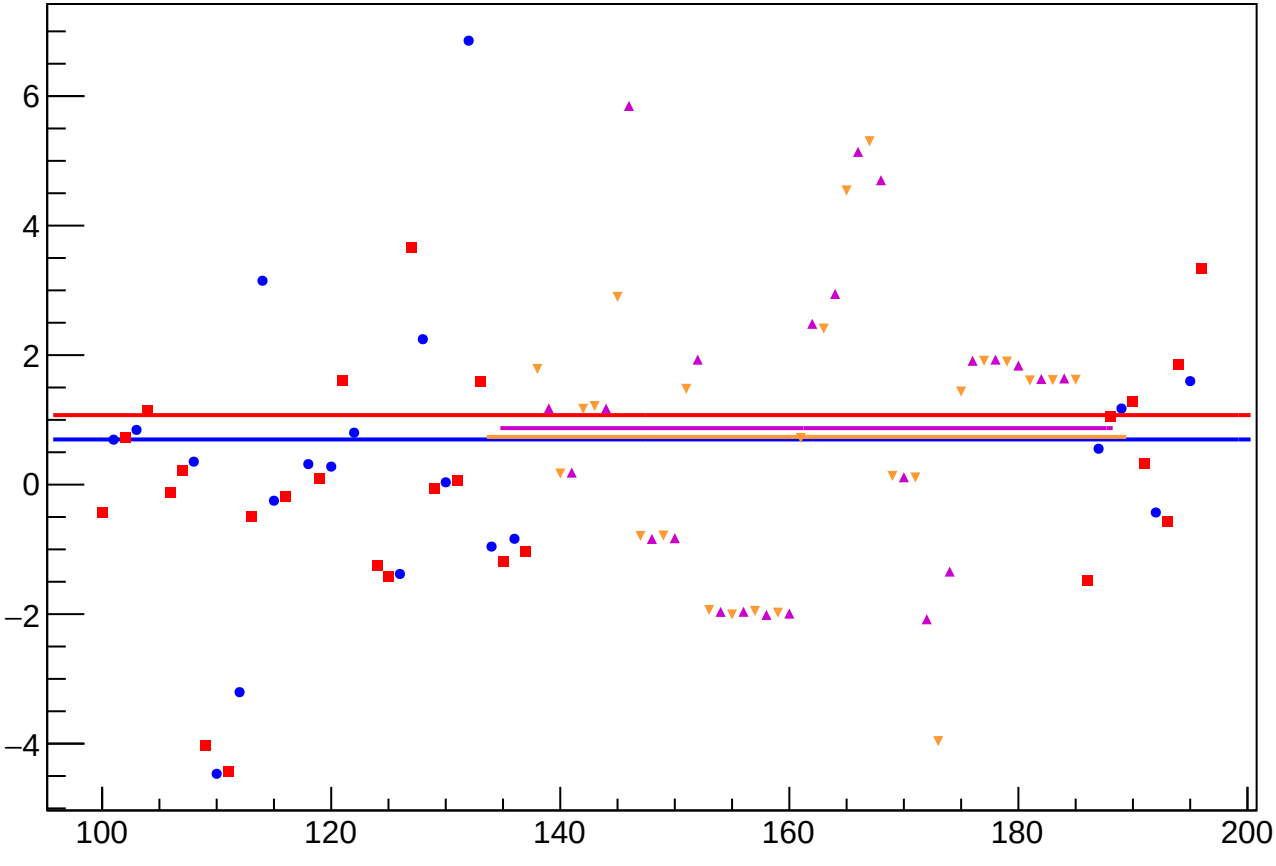
Right: 0.050+/-0.000 $\chi^2$/NDF: 6051640.5/45

In: 0.016+/-0.000 $\chi^2$/NDF:10773158.7/42

Out: 0.017+/-0.000 $\chi^2$/NDF:13708463.0/50

All: 0.017+/-0.000 $\chi^2$/NDF: 24543253.0/93

# yield_bpm1Y_mean vs Slug, Sign Corrected




Right In: 0.698+/-0.000 $\chi^2$/NDF: 16418113694.9/19

Left Out: 0.737+/-0.000 $\chi^2$/NDF:535962480112.3/24

Right Out: 1.073+/-0.000 $\chi^2$/NDF: 24056734772.0/25

Left In: 0.872+/-0.000 $\chi^2$/NDF:620161319368.2/22

Left: 0.804+/-0.000 $\chi^2$/NDF: 1157039374771.8/47

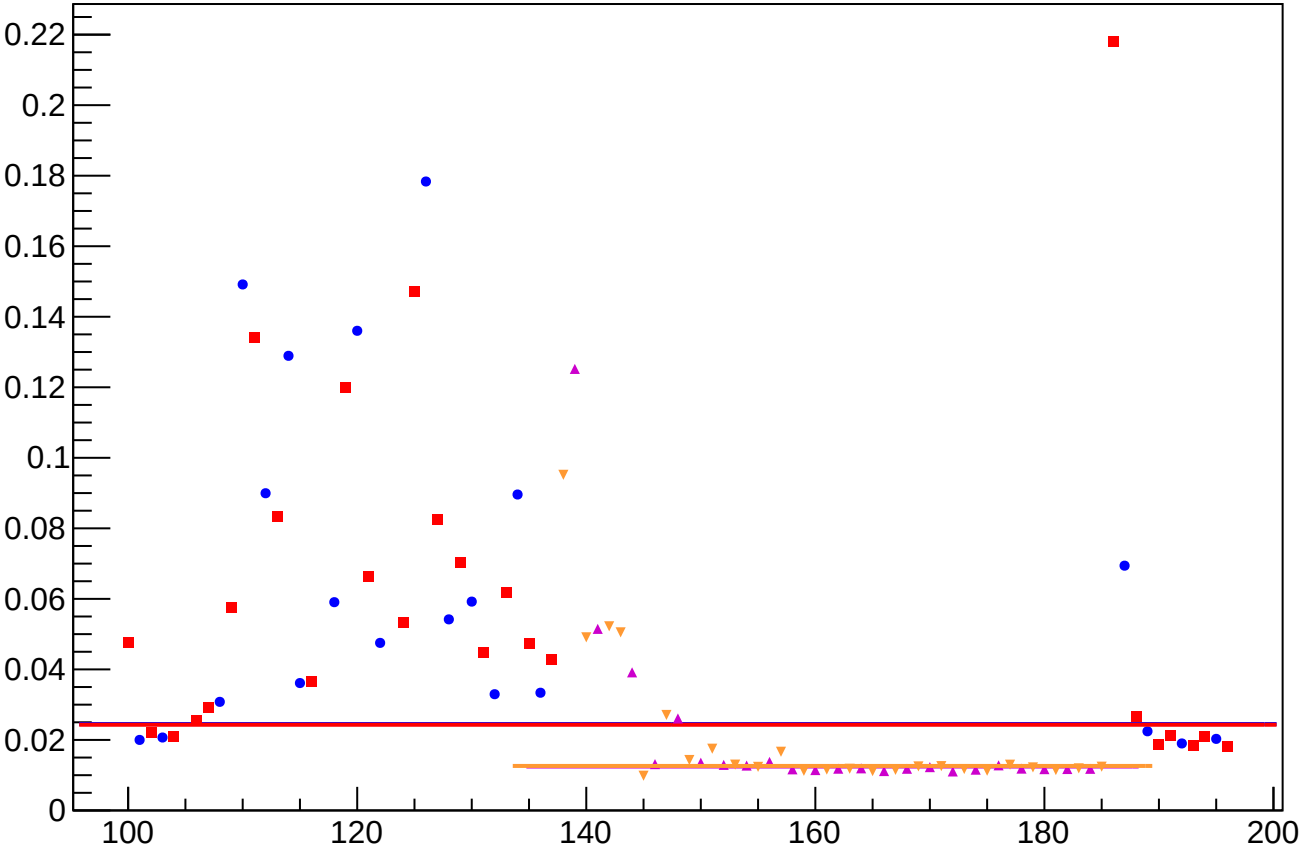
Right: 0.910+/-0.000 $\chi^2$/NDF: 41222325498.9/45

In: 0.857+/-0.000 $\chi^2$/NDF:636841003982.8/42

Out: 0.773+/-0.000 $\chi^2$/NDF:561251025391.5/50

All: 0.815+/-0.000 $\chi^2$/NDF: 1198479248921.

# yield_bpm1Y_rms vs Slug, Sign Corrected




Right In: 0.024+/-0.000 $\chi^2$/NDF: 3762964.9/19

Left Out: 0.013+/-0.000 $\chi^2$/NDF:3191407.4/24

Right Out: 0.024+/-0.000 $\chi^2$/NDF: 4836734.6/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:2756702.2/22

Left: 0.013+/-0.000 $\chi^2$/NDF: 5950839.9/47

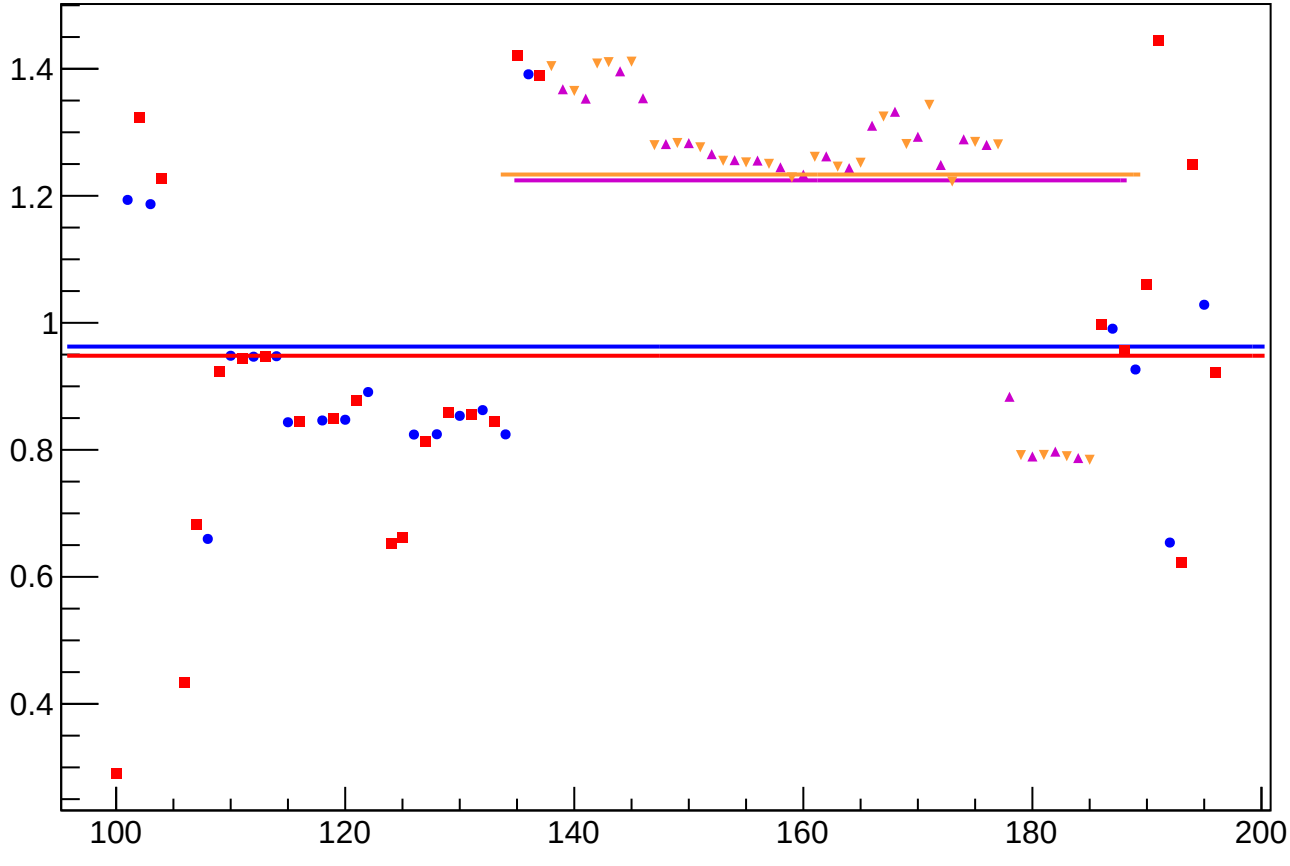
Right: 0.024+/-0.000 $\chi^2$/NDF: 8600090.8/45

In: 0.013+/-0.000 $\chi^2$/NDF:8997675.3/42

Out: 0.014+/-0.000 $\chi^2$/NDF:10995560.1/50

All: 0.014+/-0.000 $\chi^2$/NDF: 20011444.4/93

# yield_bpm11X_mean vs Slug, Sign Corrected




Right In: 0.963+/-0.000 $\chi^2$/NDF: 1589560930.4/19

Left Out: 1.234+/-0.000 $\chi^2$/NDF:3043934887.1/24

Right Out: 0.948+/-0.000 $\chi^2$/NDF: 1930407189.1/25

Left In: 1.224+/-0.000 $\chi^2$/NDF:2653773297.1/22

Left: 1.229+/-0.000 $\chi^2$/NDF: 5701436778.1/47

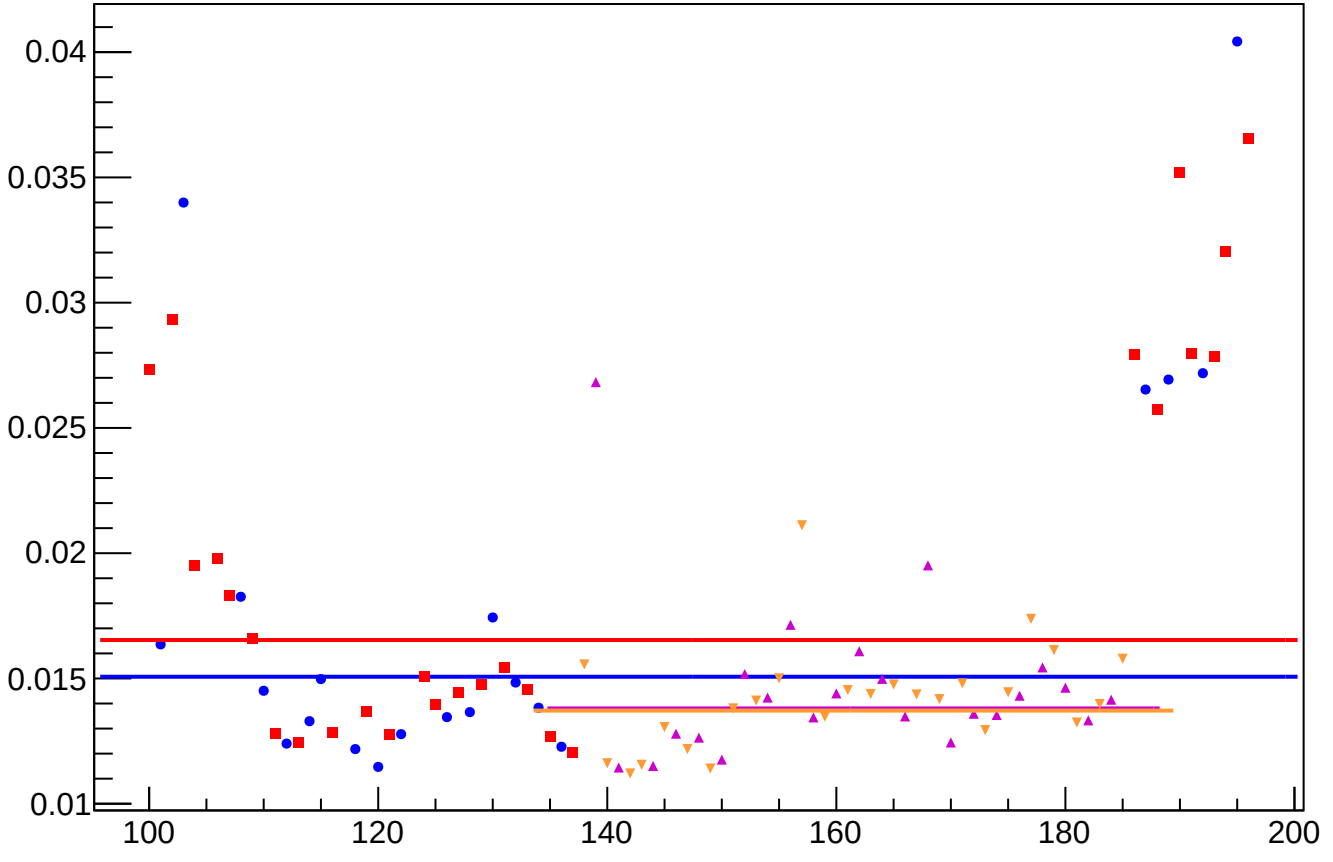
Right: 0.955+/-0.000 $\chi^2$/NDF: 3523640111.1/45

In: 1.148+/-0.000 $\chi^2$/NDF:5945151855.2/42

Out: 1.153+/-0.000 $\chi^2$/NDF:7043013020.0/50

All: 1.151+/-0.000 $\chi^2$/NDF: 12989775683.5/9

# yield_bpm11X_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 1968611.8/19

Left Out: 0.014+/-0.000 $\chi^2$/NDF:550789.3/24

Right Out: 0.017+/-0.000 $\chi^2$/NDF: 2530358.0/25

Left In: 0.014+/-0.000 $\chi^2$/NDF:870104.2/22

Left: 0.014+/-0.000 $\chi^2$/NDF: 1421553.5/47

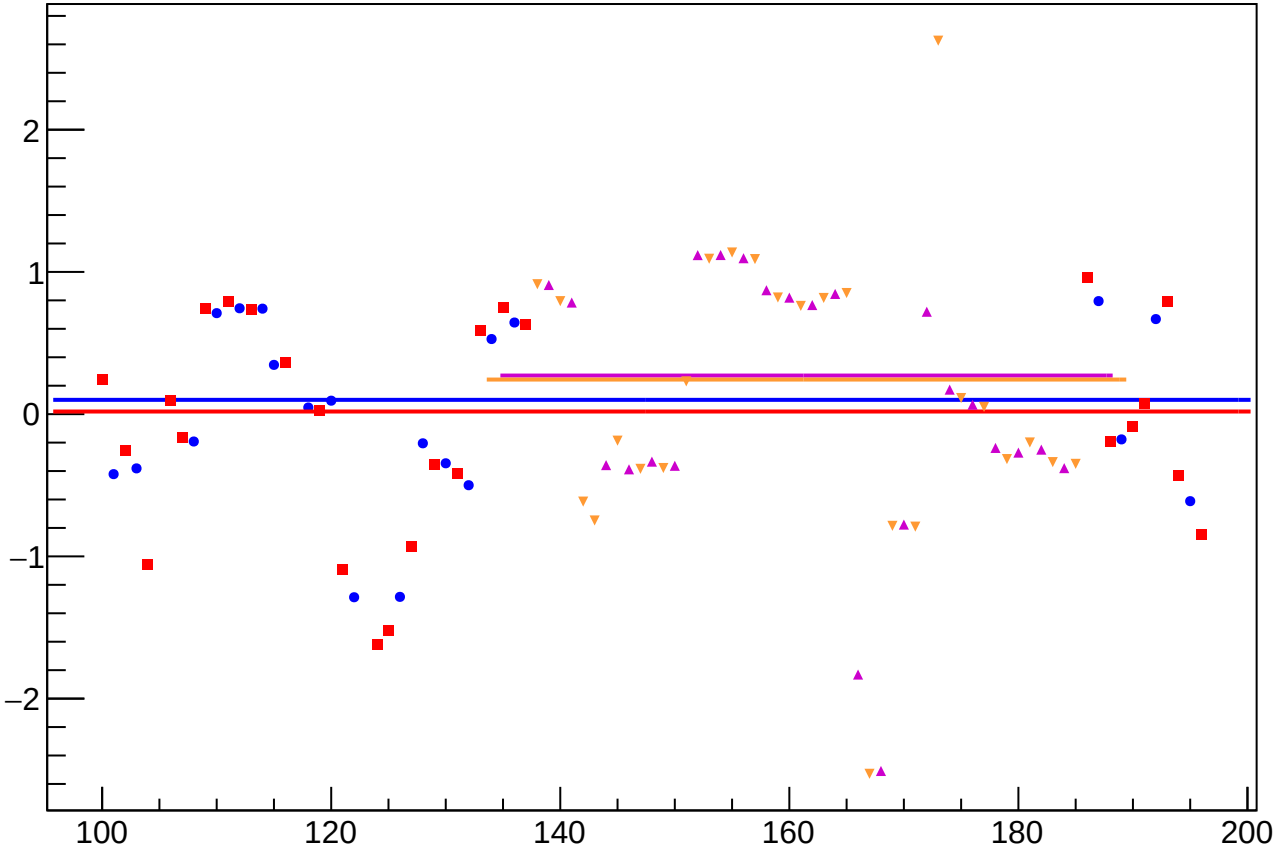
Right: 0.016+/-0.000 $\chi^2$/NDF: 4574599.8/45

In: 0.014+/-0.000 $\chi^2$/NDF:2918156.9/42

Out: 0.015+/-0.000 $\chi^2$/NDF:3484152.7/50

All: 0.014+/-0.000 $\chi^2$/NDF: 6416362.2/93

# yield_bpm11Y_mean vs Slug, Sign Corrected




Right In: 0.101+/-0.000 $\chi^2$/NDF: 16862102287.1/19

Left Out: 0.243+/-0.000 $\chi^2$/NDF:105591710525.9/24

Right Out: 0.019+/-0.000 $\chi^2$/NDF: 27366422224.6/25

Left In: 0.271+/-0.000 $\chi^2$/NDF:90500933388.6/22

Left: 0.257+/-0.000 $\chi^2$/NDF: 196139241247.8/47

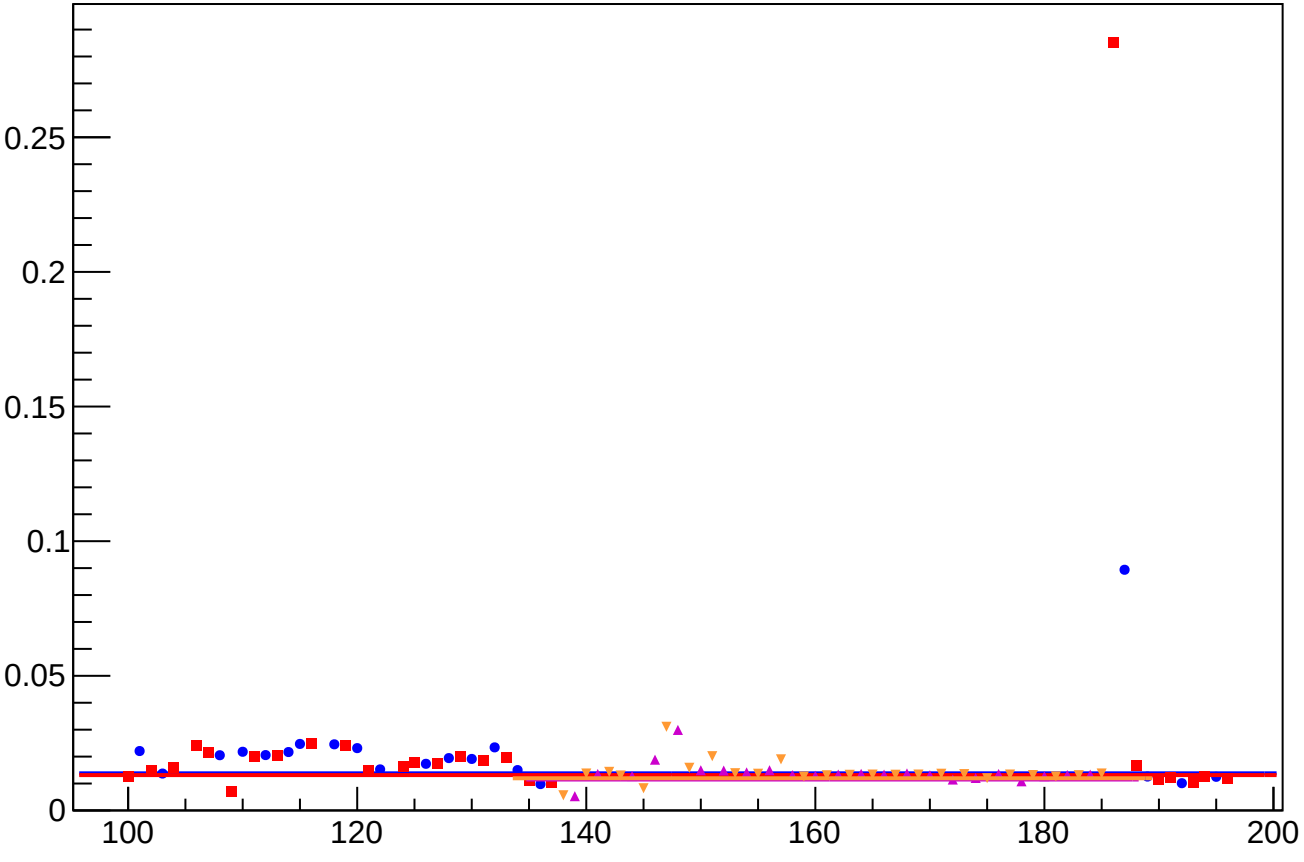
Right: 0.055+/-0.000 $\chi^2$/NDF: 44388023838.7/45

In: 0.226+/-0.000 $\chi^2$/NDF:108268585720.7/42

Out: 0.173+/-0.000 $\chi^2$/NDF:134827779862.3/50

All: 0.199+/-0.000 $\chi^2$/NDF: 243336637006.8

# yield_bpm11Y_rms vs Slug, Sign Corrected




Right In: 0.014+/-0.000 $\chi^2$/NDF: 1959765.3/19

Left Out: 0.012+/-0.000 $\chi^2$/NDF:3266034.8/24

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 2636875.7/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:3671096.5/22

Left: 0.012+/-0.000 $\chi^2$/NDF: 6962181.1/47

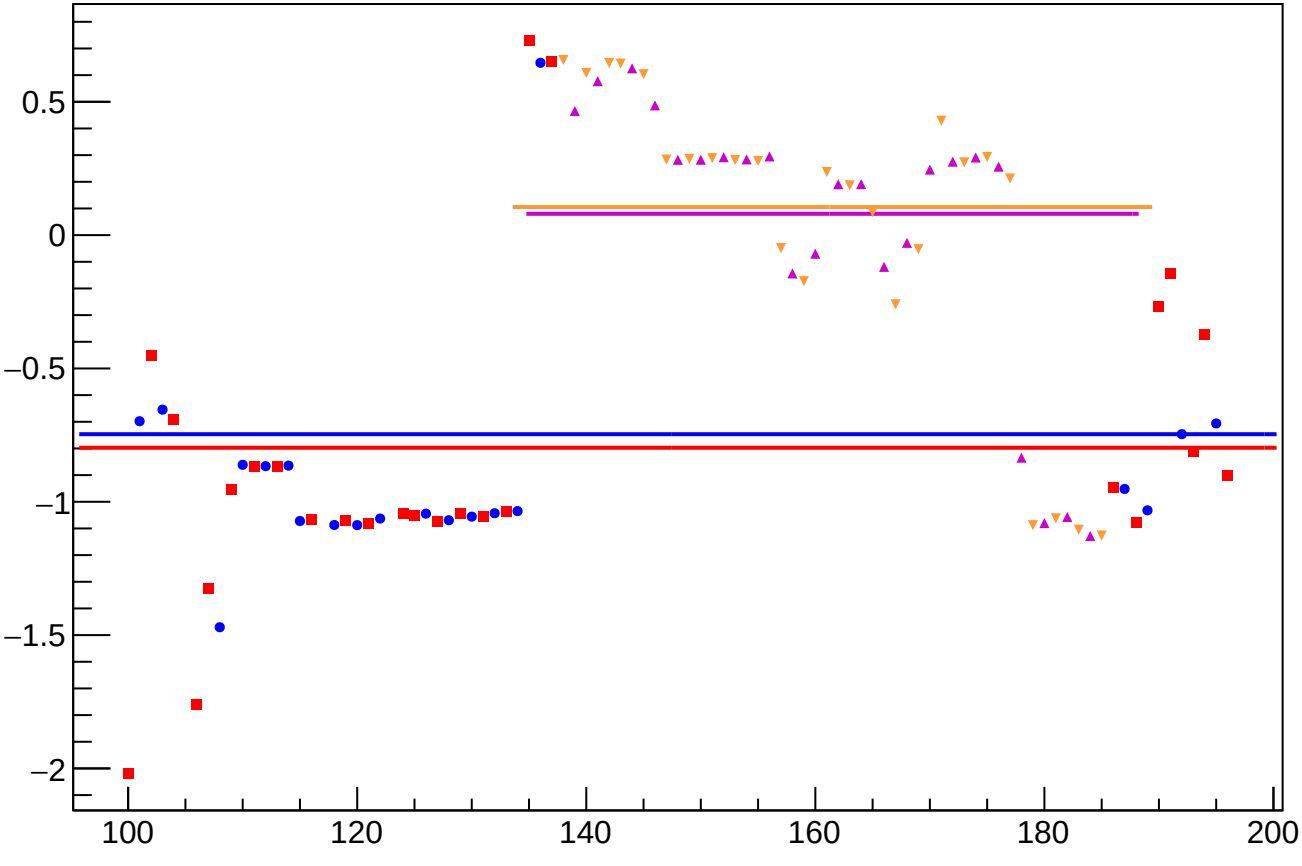
Right: 0.013+/-0.000 $\chi^2$/NDF: 4616687.2/45

In: 0.012+/-0.000 $\chi^2$/NDF:5958416.8/42

Out: 0.012+/-0.000 $\chi^2$/NDF:6006855.4/50

All: 0.012+/-0.000 $\chi^2$/NDF: 11973968.7/93

# yield_bpm12X_mean vs Slug, Sign Corrected




Right In: -0.747+/-0.000 $\chi^2$/NDF: 2087502507.8/19

Left Out: 0.105+/-0.000 $\chi^2$/NDF:3787188881.7/24

Right Out: -0.797+/-0.000 $\chi^2$/NDF: 1975424226.0/25

Left In: 0.080+/-0.000 $\chi^2$/NDF:3269598614.0/22

Left: 0.093+/-0.000 $\chi^2$/NDF: 7060999344.9/47

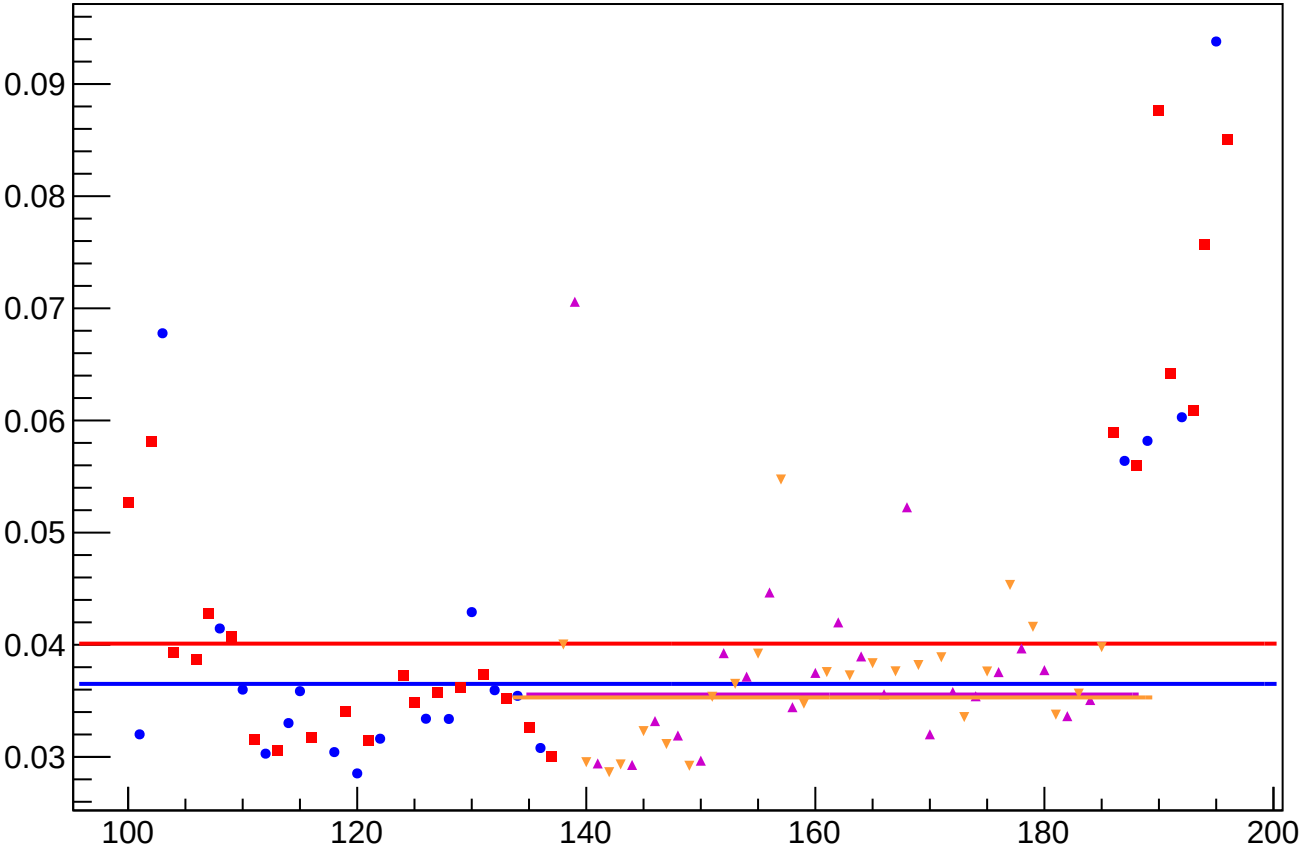
Right: -0.772+/-0.000 $\chi^2$/NDF: 4070824812.4/45

In: -0.188+/-0.000 $\chi^2$/NDF:8176625861.9/42

Out: -0.177+/-0.000 $\chi^2$/NDF:9200385108.5/50

All: -0.182+/-0.000 $\chi^2$/NDF: 17378229001.9/

# yield_bpm12X_rms vs Slug, Sign Corrected




Right In: 0.037+/-0.000 $\chi^2$/NDF: 1583275.0/19

Left Out: 0.035+/-0.000 $\chi^2$/NDF:612627.1/24

Right Out: 0.040+/-0.000 $\chi^2$/NDF: 1996888.3/25

Left In: 0.036+/-0.000 $\chi^2$/NDF:960383.5/22

Left: 0.035+/-0.000 $\chi^2$/NDF: 1573892.0/47

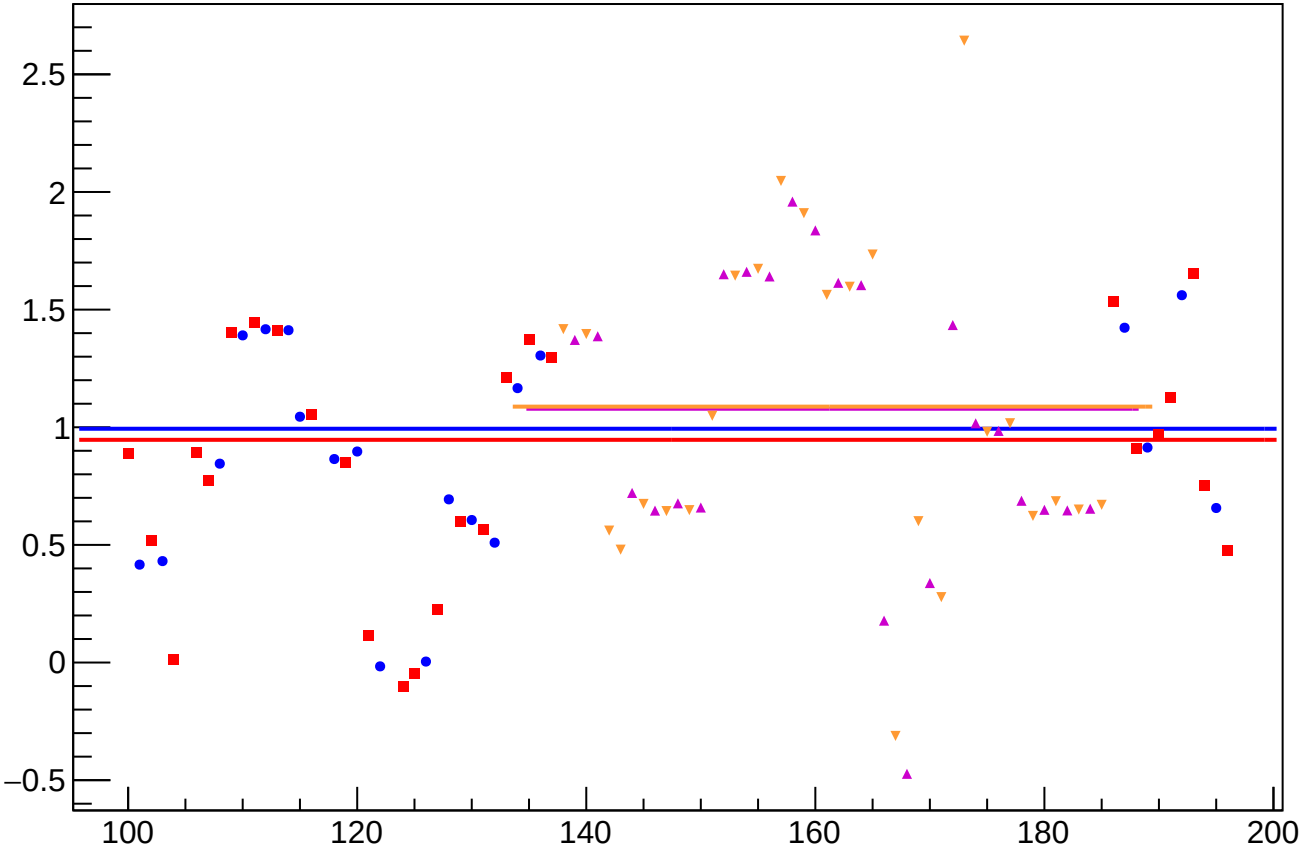
Right: 0.038+/-0.000 $\chi^2$/NDF: 3659045.1/45

In: 0.036+/-0.000 $\chi^2$/NDF:2551081.4/42

Out: 0.037+/-0.000 $\chi^2$/NDF:2803670.4/50

All: 0.036+/-0.000 $\chi^2$/NDF: 5371475.3/93

# yield_bpm12Y_mean vs Slug, Sign Corrected




Right In: 0.994+/-0.000 $\chi^2$/NDF: 20169372964.0/19

Left Out: 1.088+/-0.000 $\chi^2$/NDF:93851056436.3/24

Right Out: 0.947+/-0.000 $\chi^2$/NDF: 27781370310.9/25

Left In: 1.079+/-0.000 $\chi^2$/NDF:74081002727.0/22

Left: 1.083+/-0.000 $\chi^2$/NDF: 167940854654.3/47

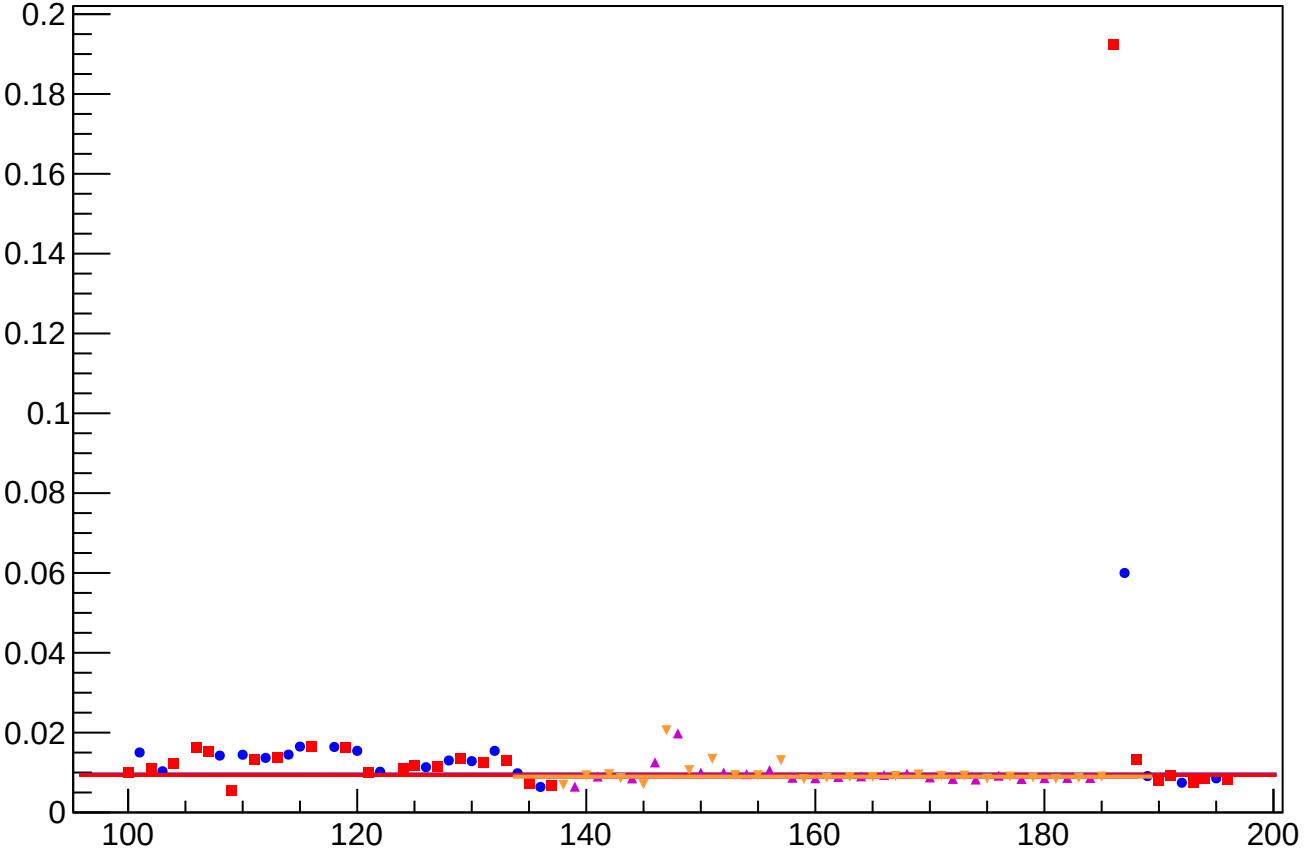
Right: 0.968+/-0.000 $\chi^2$/NDF: 48059361912.9/45

In: 1.053+/-0.000 $\chi^2$/NDF:94704739515.2/42

Out: 1.042+/-0.000 $\chi^2$/NDF:123088759503.8/50

All: 1.047+/-0.000 $\chi^2$/NDF: 217815564533.2

# yield_bpm12Y_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 1847650.9/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:1146497.6/24

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 2355950.8/25

Left In: 0.009+/-0.000 $\chi^2$/NDF:966765.2/22

Left: 0.009+/-0.000 $\chi^2$/NDF: 2113402.8/47

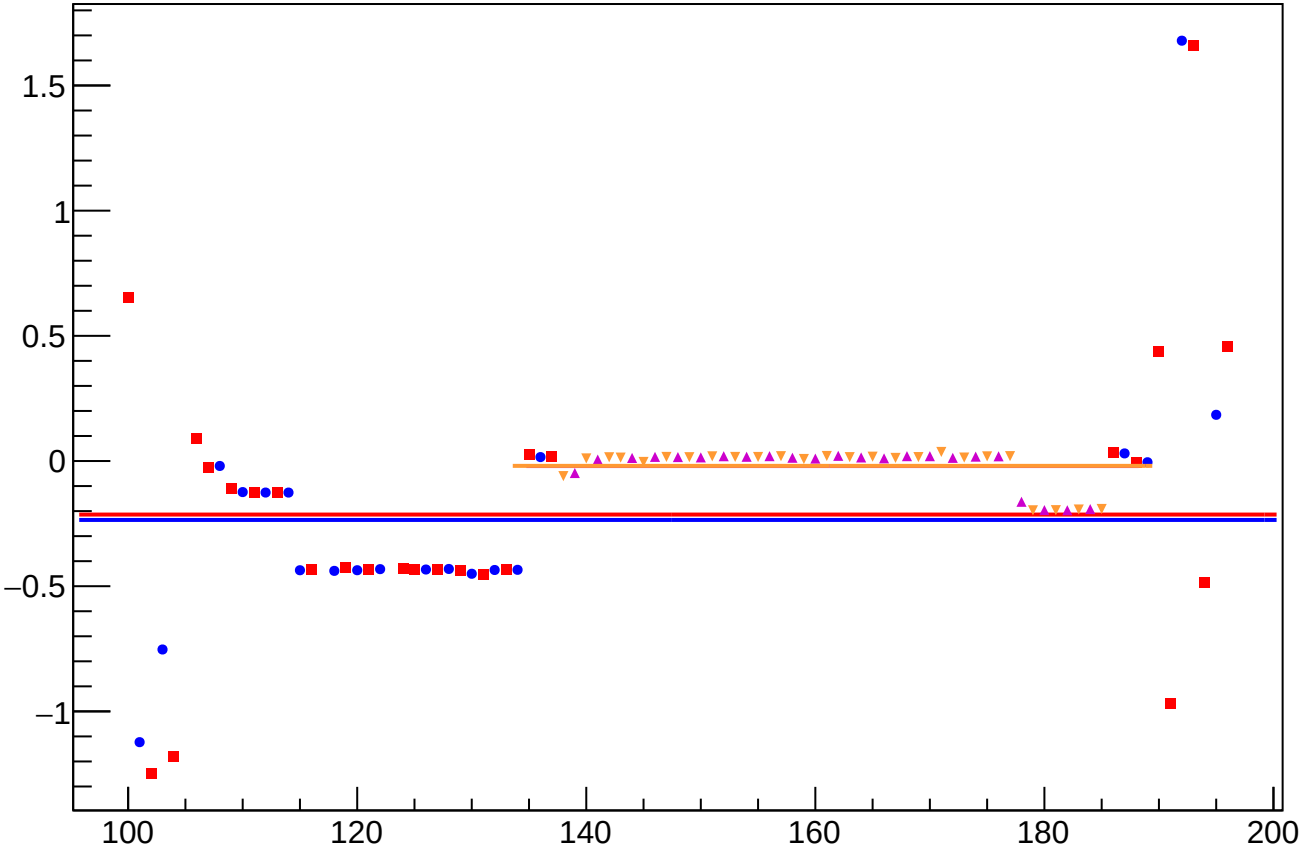
Right: 0.009+/-0.000 $\chi^2$/NDF: 4205203.1/45

In: 0.009+/-0.000 $\chi^2$/NDF:2854672.9/42

Out: 0.009+/-0.000 $\chi^2$/NDF:3527378.3/50

All: 0.009+/-0.000 $\chi^2$/NDF: 6382070.9/93

# yield_bpm16X_mean vs Slug, Sign Corrected




Right In: -0.235+/-0.000 $\chi^2$/NDF: 3018202835.7/19

Left Out: -0.019+/-0.000 $\chi^2$/NDF:1058597672.8/24

Right Out: -0.214+/-0.000 $\chi^2$/NDF: 2681811881.7/25

Left In: -0.020+/-0.000 $\chi^2$/NDF:984483299.5/22

Left: -0.020+/-0.000 $\chi^2$/NDF: 2043130063.5/47

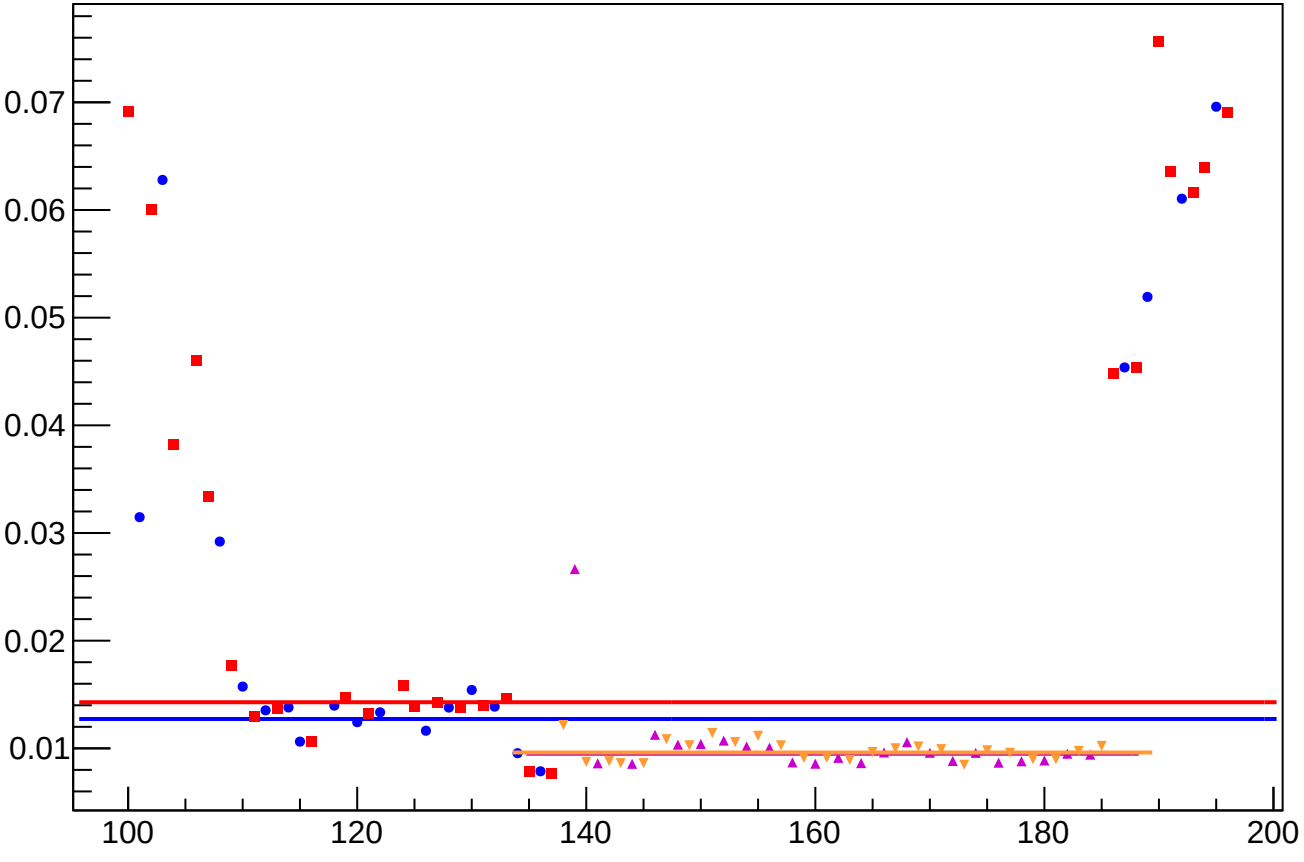
Right: -0.225+/-0.000 $\chi^2$/NDF: 5708000569.0/45

In: -0.058+/-0.000 $\chi^2$/NDF:5383827592.3/42

Out: -0.050+/-0.000 $\chi^2$/NDF:4795147205.0/50

All: -0.054+/-0.000 $\chi^2$/NDF: 10185962182.9/

# yield_bpm16X_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 5016497.1/19

Left Out: 0.010+/-0.000 $\chi^2$/NDF:271912.7/24

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 7234729.9/25

Left In: 0.009+/-0.000 $\chi^2$/NDF:900469.0/22

Left: 0.010+/-0.000 $\chi^2$/NDF: 1174797.3/47

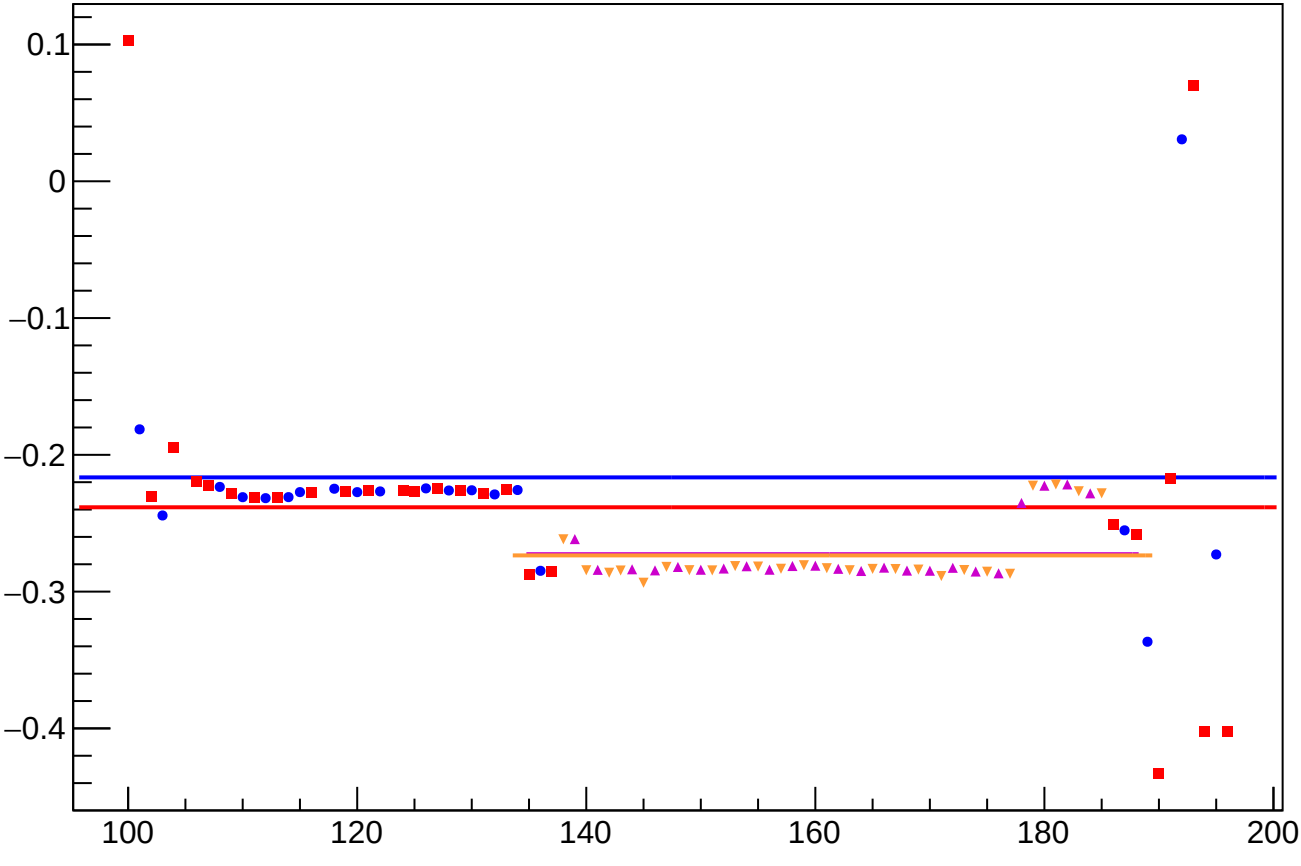
Right: 0.013+/-0.000 $\chi^2$/NDF: 12335025.2/45

In: 0.010+/-0.000 $\chi^2$/NDF:6538593.1/42

Out: 0.010+/-0.000 $\chi^2$/NDF:8721559.9/50

All: 0.010+/-0.000 $\chi^2$/NDF: 15276593.1/93

# yield_bpm16Y_mean vs Slug, Sign Corrected




Right In: -0.216+/-0.000 $\chi^2$/NDF: 2235758948.1/19

Left Out: -0.274+/-0.000 $\chi^2$/NDF:395563277.1/24

Right Out: -0.238+/-0.000 $\chi^2$/NDF: 4085413158.9/25

Left In: -0.273+/-0.000 $\chi^2$/NDF:335149425.2/22

Left: -0.273+/-0.000 $\chi^2$/NDF: 730998387.7/47

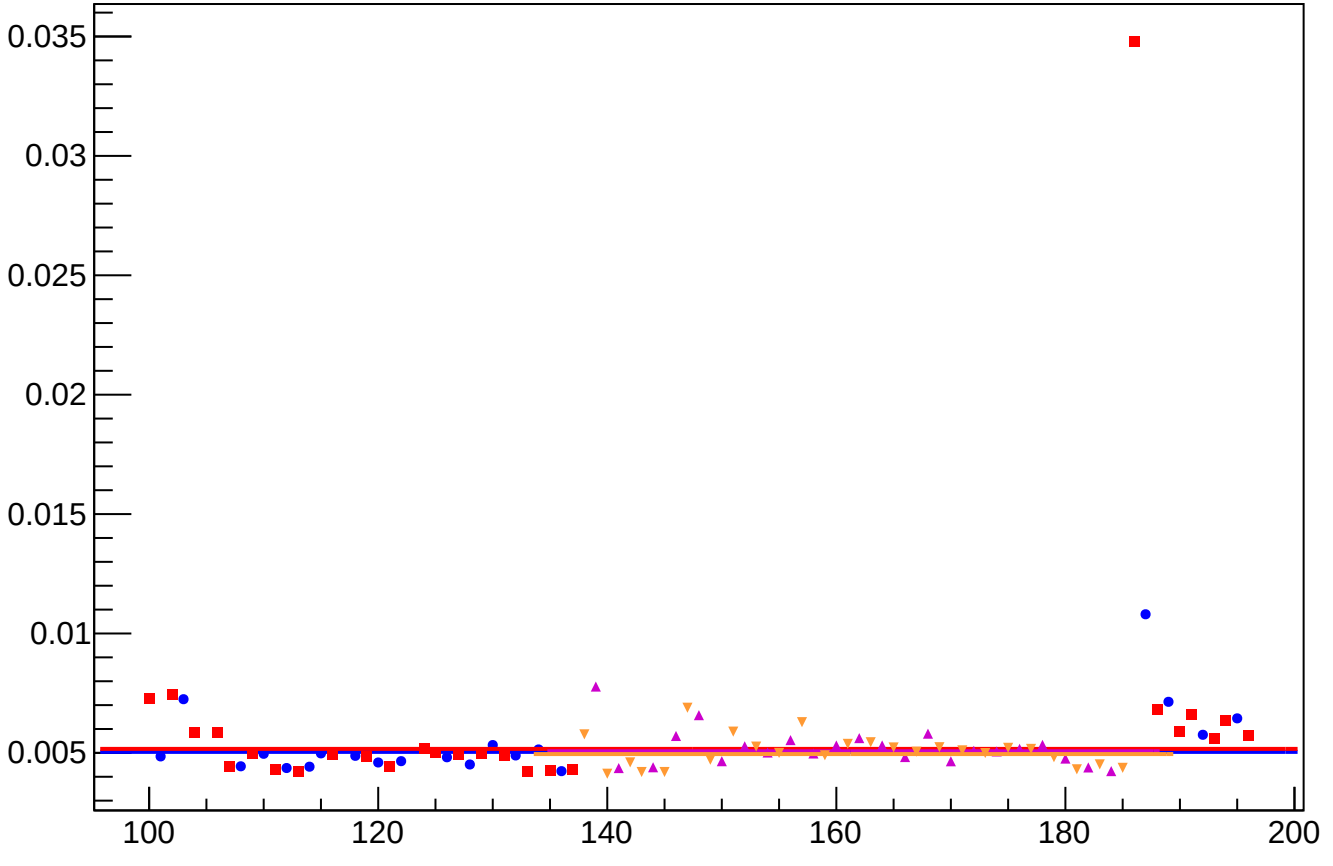
Right: -0.228+/-0.000 $\chi^2$/NDF: 6408621542.7/45

In: -0.254+/-0.000 $\chi^2$/NDF:3285857574.6/42

Out: -0.261+/-0.000 $\chi^2$/NDF:4797843537.5/50

All: -0.258+/-0.000 $\chi^2$/NDF: 8115786152.7/9

# yield_bpm16Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 529092.5/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:528766.8/24

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 1146470.9/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:539392.8/22

Left: 0.005+/-0.000 $\chi^2$/NDF: 1077679.9/47

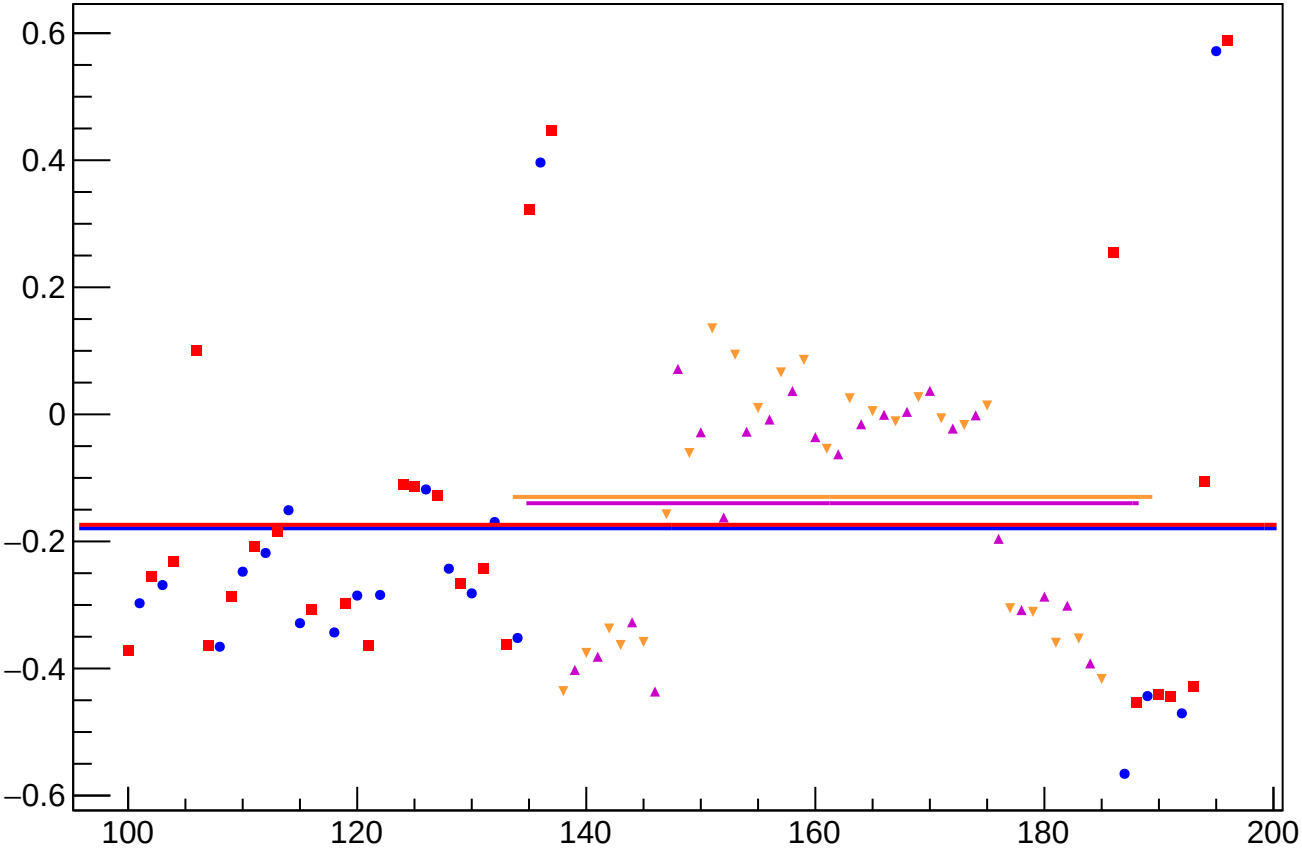
Right: 0.005+/-0.000 $\chi^2$/NDF: 1681321.5/45

In: 0.005+/-0.000 $\chi^2$/NDF:1068764.2/42

Out: 0.005+/-0.000 $\chi^2$/NDF:1699373.1/50

All: 0.005+/-0.000 $\chi^2$/NDF: 2769283.2/93

# yield_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -0.179+/-0.000 $\chi^2$/NDF: 20277363686.2/19

Left Out: -0.130+/-0.000 $\chi^2$/NDF:21496239338.5/24

Right Out: -0.174+/-0.000 $\chi^2$/NDF: 20979556146.8/25

Left In: -0.140+/-0.000 $\chi^2$/NDF:15148699439.4/22

Left: -0.135+/-0.000 $\chi^2$/NDF: 36673480193.4/47

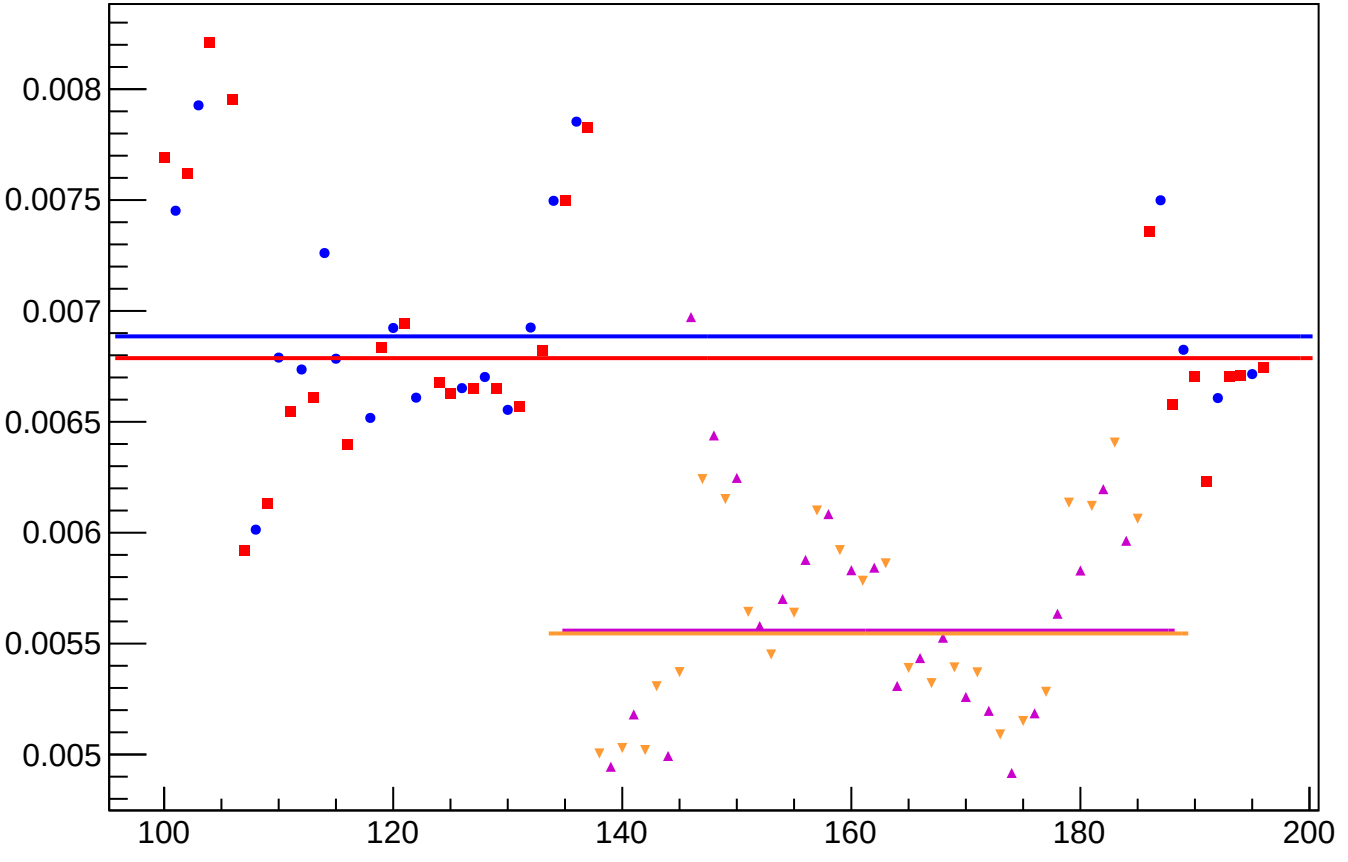
Right: -0.176+/-0.000 $\chi^2$/NDF: 41260354022.5/45

In: -0.150+/-0.000 $\chi^2$/NDF:35656897101.6/42

Out: -0.143+/-0.000 $\chi^2$/NDF:42816990759.3/50

All: -0.146+/-0.000 $\chi^2$/NDF: 78495689301.0/

# yield_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 93130.6/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:201874.8/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 112121.5/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:260994.3/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 462963.1/47

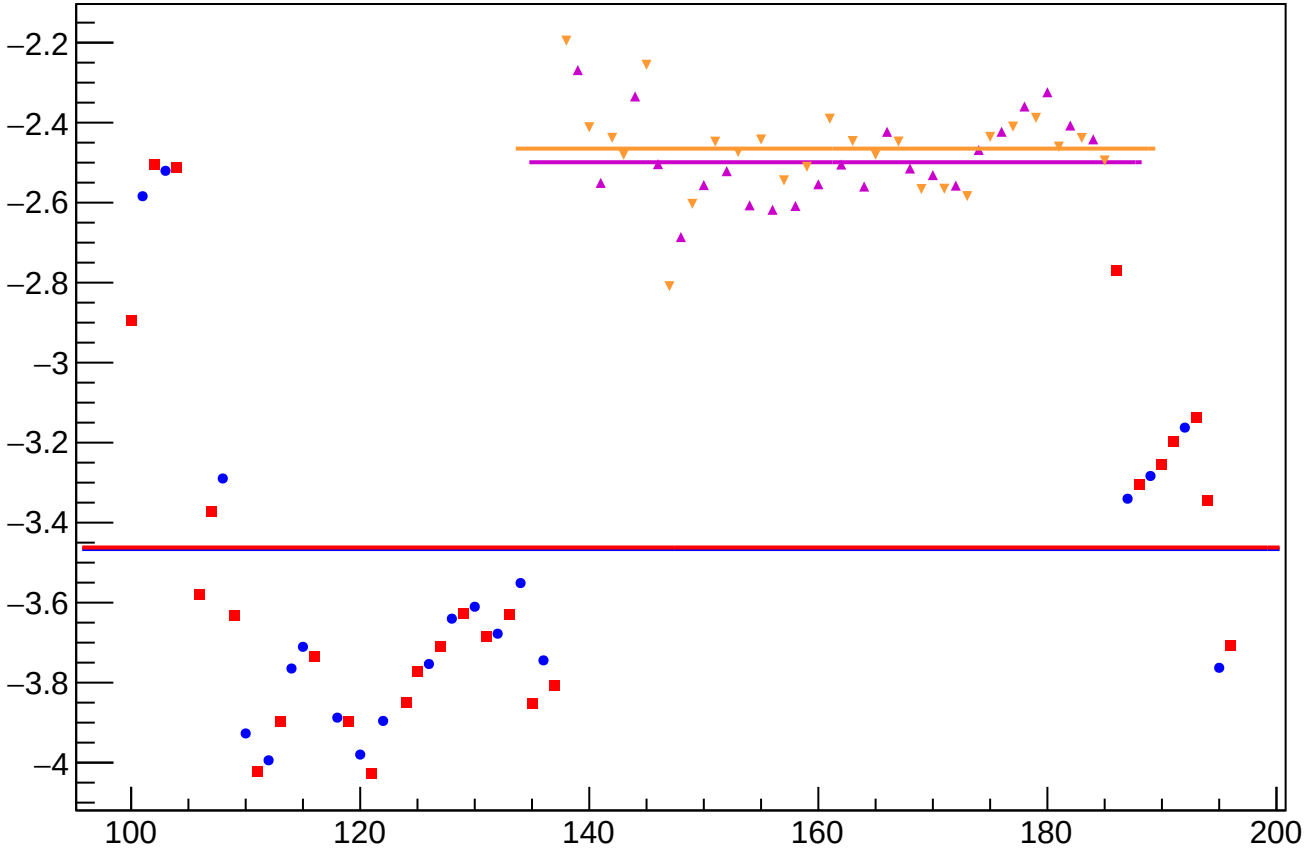
Right: 0.007+/-0.000 $\chi^2$/NDF: 207413.3/45

In: 0.006+/-0.000 $\chi^2$/NDF:876358.9/42

Out: 0.006+/-0.000 $\chi^2$/NDF:860671.3/50

All: 0.006+/-0.000 $\chi^2$/NDF: 1737045.2/93

# yield_bpm0i02Y_mean vs Slug, Sign Corrected




Right In: -3.466+/-0.000 $\chi^2$/NDF: 30981503462.4/19

Left Out: -2.465+/-0.000 $\chi^2$/NDF:2167098053.0/24

Right Out: -3.462+/-0.000 $\chi^2$/NDF: 32924680066.2/25

Left In: -2.499+/-0.000 $\chi^2$/NDF:2273256162.3/22

Left: -2.482+/-0.000 $\chi^2$/NDF: 4579764851.4/47

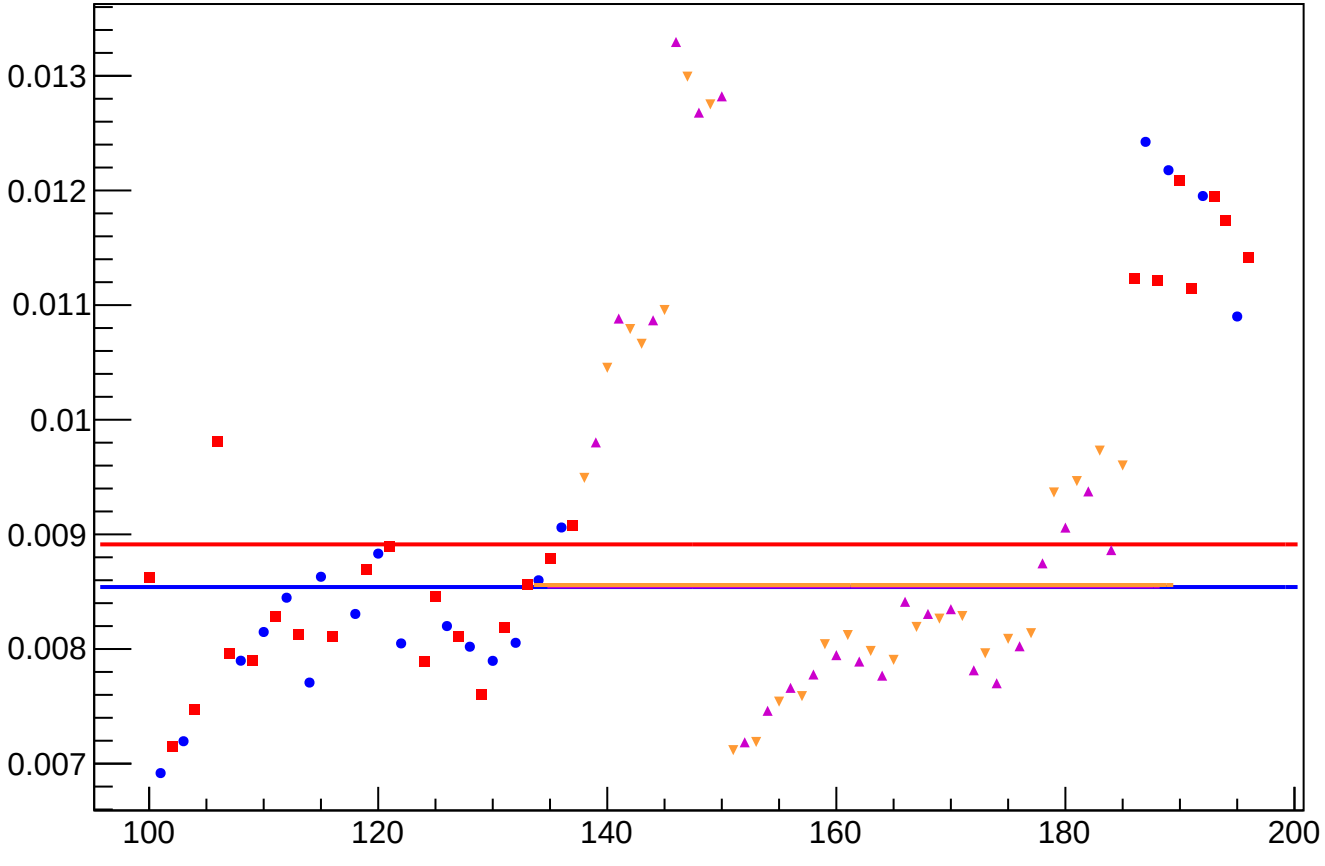
Right: -3.464+/-0.000 $\chi^2$/NDF: 63907215941.6/45

In: -2.840+/-0.000 $\chi^2$/NDF:110350575685.2/42

Out: -2.827+/-0.000 $\chi^2$/NDF:124318911366.3/50

All: -2.833+/-0.000 $\chi^2$/NDF: 234697700636.8

# yield_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 509532.2/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:824029.0/24

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 666702.9/25

Left In: 0.009+/-0.000 $\chi^2$/NDF:910760.2/22

Left: 0.009+/-0.000 $\chi^2$/NDF: 1734826.3/47

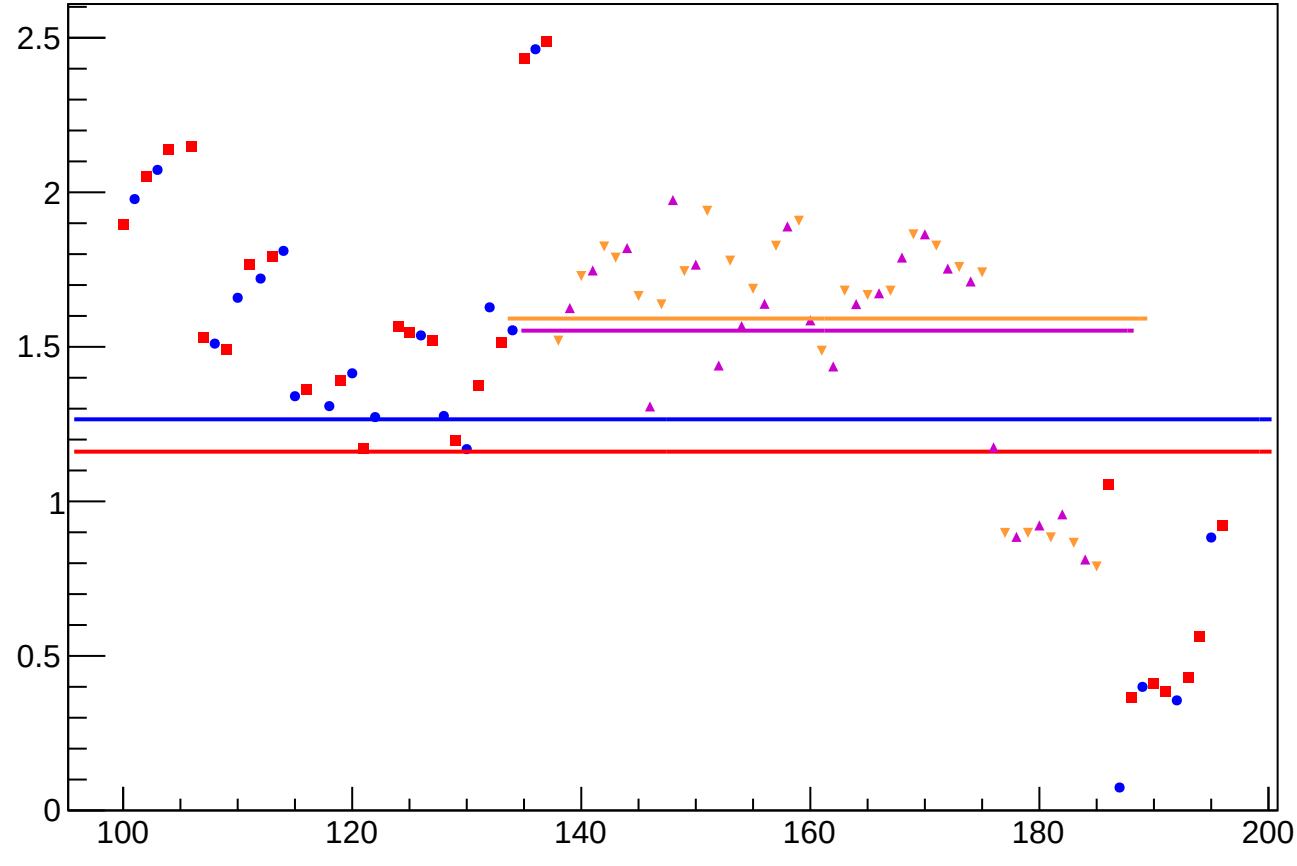
Right: 0.009+/-0.000 $\chi^2$/NDF: 1194751.4/45

In: 0.009+/-0.000 $\chi^2$/NDF:1420297.0/42

Out: 0.009+/-0.000 $\chi^2$/NDF:1513267.9/50

All: 0.009+/-0.000 $\chi^2$/NDF: 2941224.4/93

# yield_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: 1.266+/-0.000 $\chi^2$/NDF: 27319573893.6/19

Left Out: 1.592+/-0.000 $\chi^2$/NDF:17078853061.6/24

Right Out: 1.161+/-0.000 $\chi^2$/NDF: 33735524376.5/25

Left In: 1.552+/-0.000 $\chi^2$/NDF:14055987405.9/22

Left: 1.573+/-0.000 $\chi^2$/NDF: 31243382500.9/47

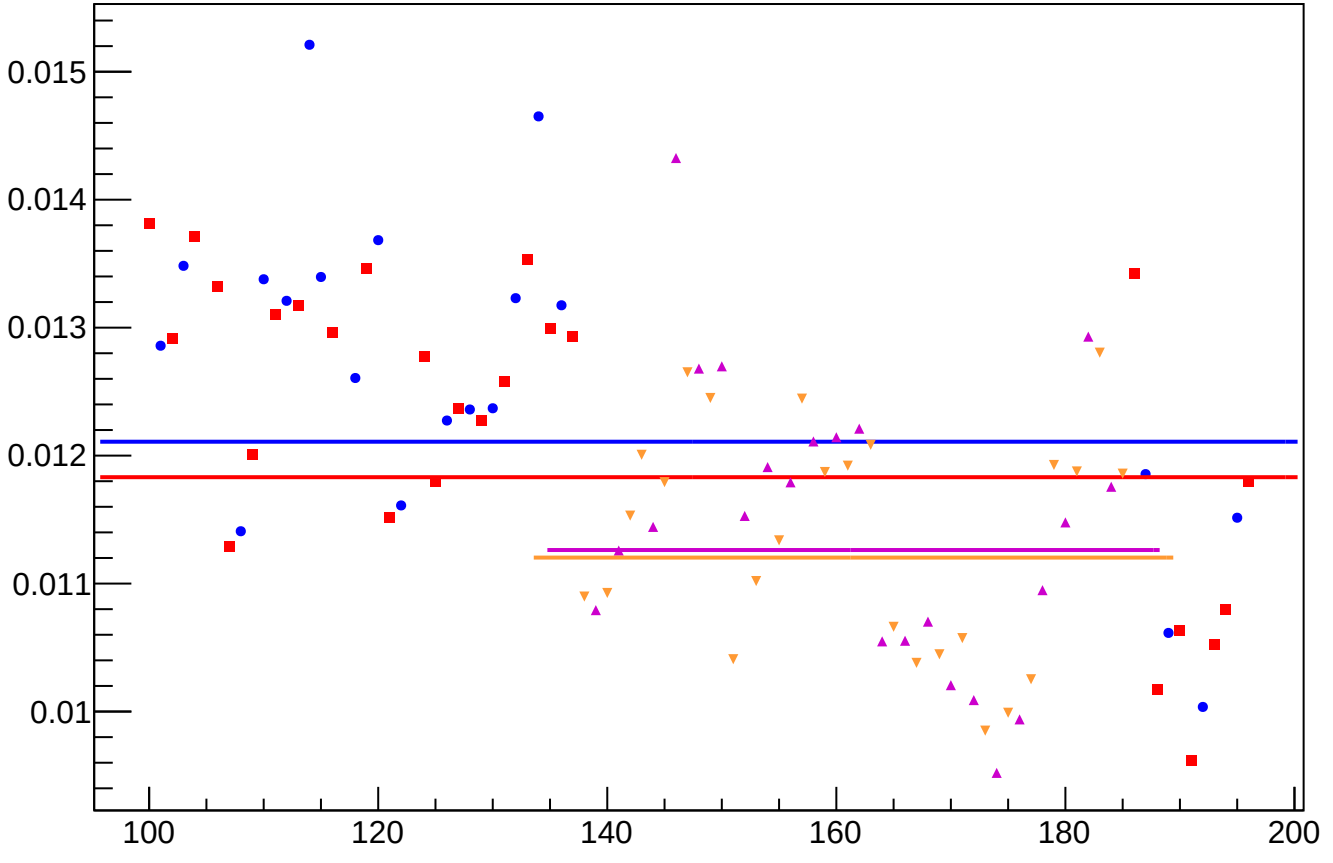
Right: 1.207+/-0.000 $\chi^2$/NDF: 61450963675.5/45

In: 1.460+/-0.000 $\chi^2$/NDF:44984355331.9/42

Out: 1.437+/-0.000 $\chi^2$/NDF:60590550096.6/50

All: 1.448+/-0.000 $\chi^2$/NDF: 105632211559.0

# yield_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 204691.5/19

Left Out: 0.011+/-0.000 $\chi^2$/NDF:223594.3/24

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 245011.3/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:311660.7/22

Left: 0.011+/-0.000 $\chi^2$/NDF: 535750.7/47

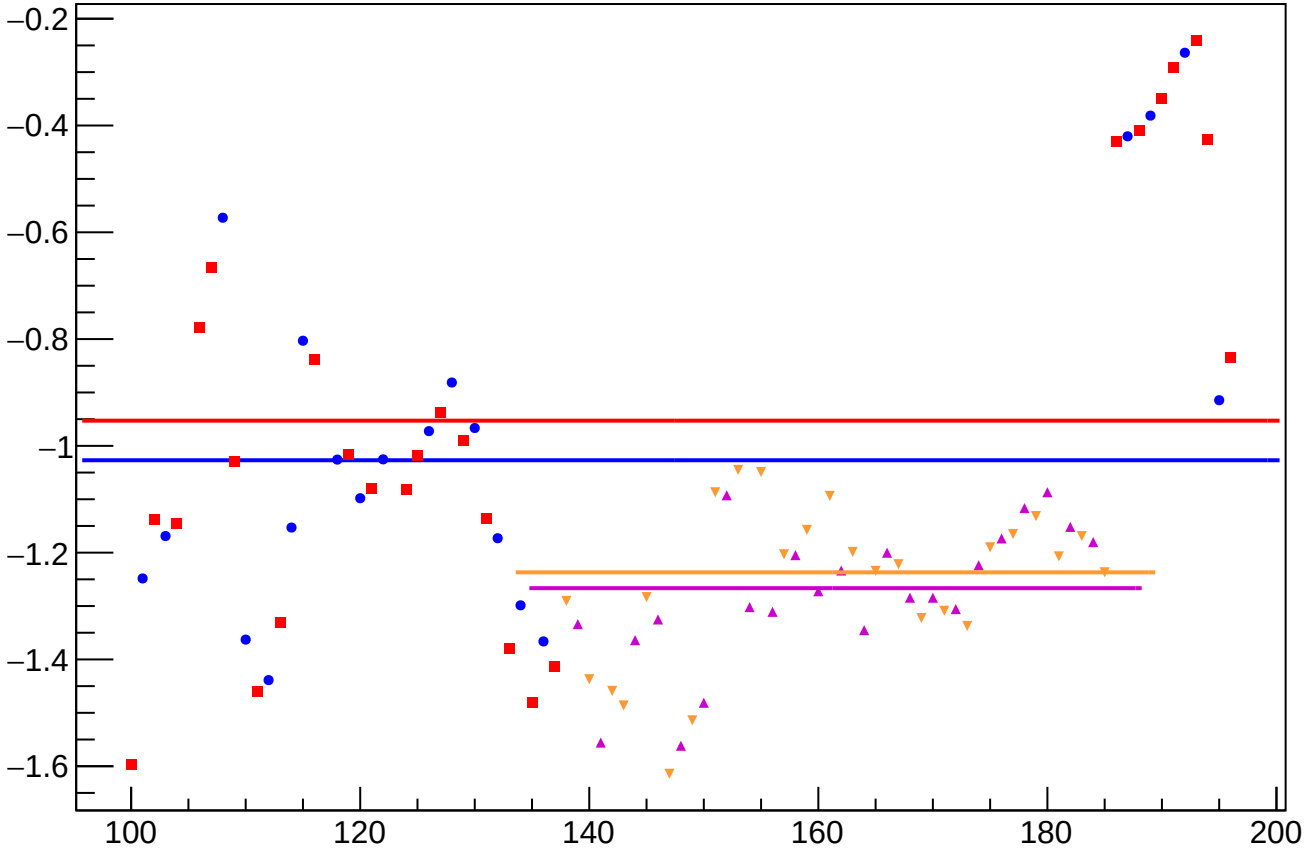
Right: 0.012+/-0.000 $\chi^2$/NDF: 455259.5/45

In: 0.012+/-0.000 $\chi^2$/NDF:579160.0/42

Out: 0.011+/-0.000 $\chi^2$/NDF:510209.1/50

All: 0.011+/-0.000 $\chi^2$/NDF: 1091759.3/93

# yield_bpm0i02aY_mean vs Slug, Sign Corrected




Right In: -1.027+/-0.000 $\chi^2$/NDF: 10952190438.7/19

Left Out: -1.237+/-0.000 $\chi^2$/NDF:4972272024.7/24

Right Out: -0.953+/-0.000 $\chi^2$/NDF: 16418558213.3/25

Left In: -1.267+/-0.000 $\chi^2$/NDF:3674801511.3/22

Left: -1.251+/-0.000 $\chi^2$/NDF: 8764581472.4/47

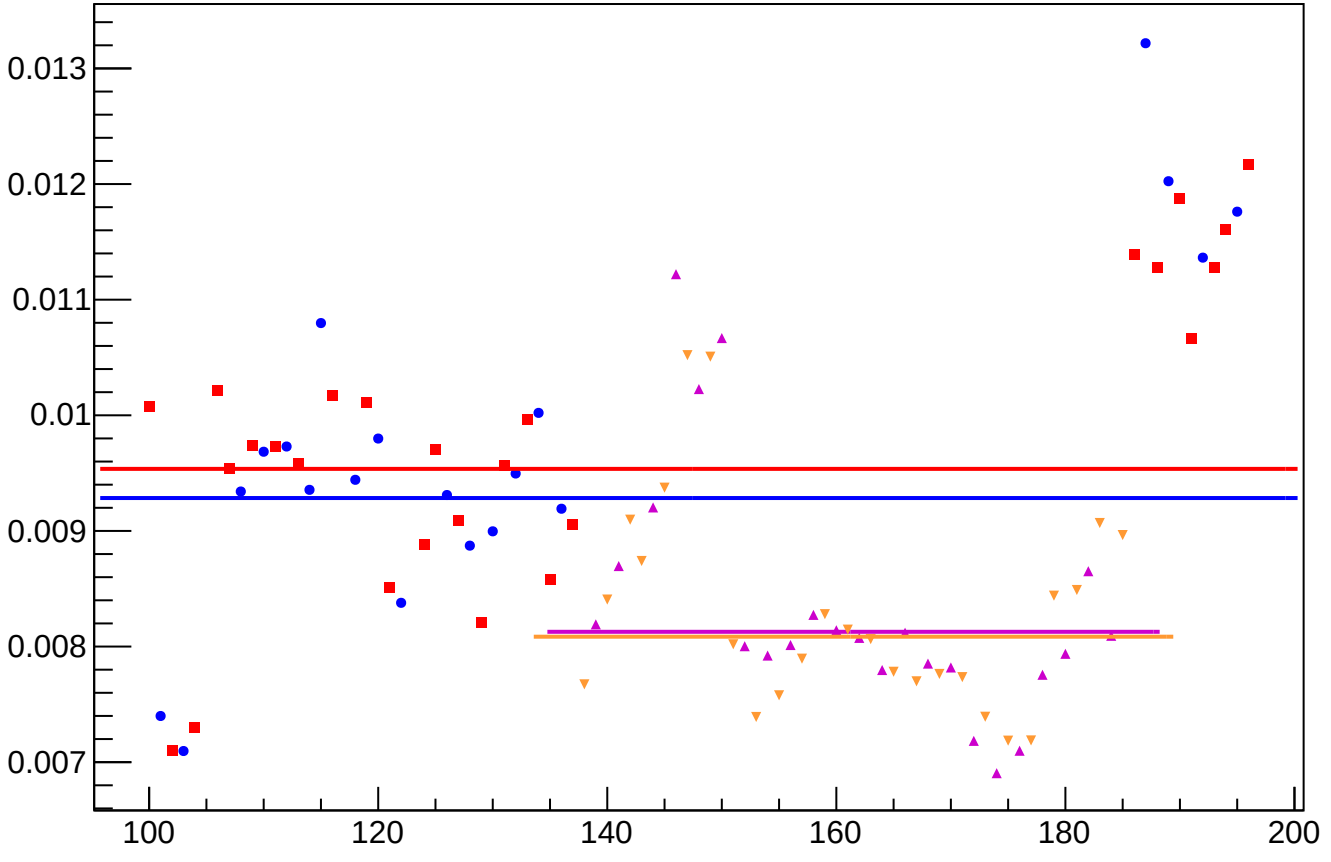
Right: -0.987+/-0.000 $\chi^2$/NDF: 27684172472.1/45

In: -1.197+/-0.000 $\chi^2$/NDF:18966748500.1/42

Out: -1.150+/-0.000 $\chi^2$/NDF:28230820925.7/50

All: -1.172+/-0.000 $\chi^2$/NDF: 47616319829.9/

# yield_bpm0i02aY_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 441509.6/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:326825.0/24

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 562296.4/25

Left In: 0.008+/-0.000 $\chi^2$/NDF:409030.0/22

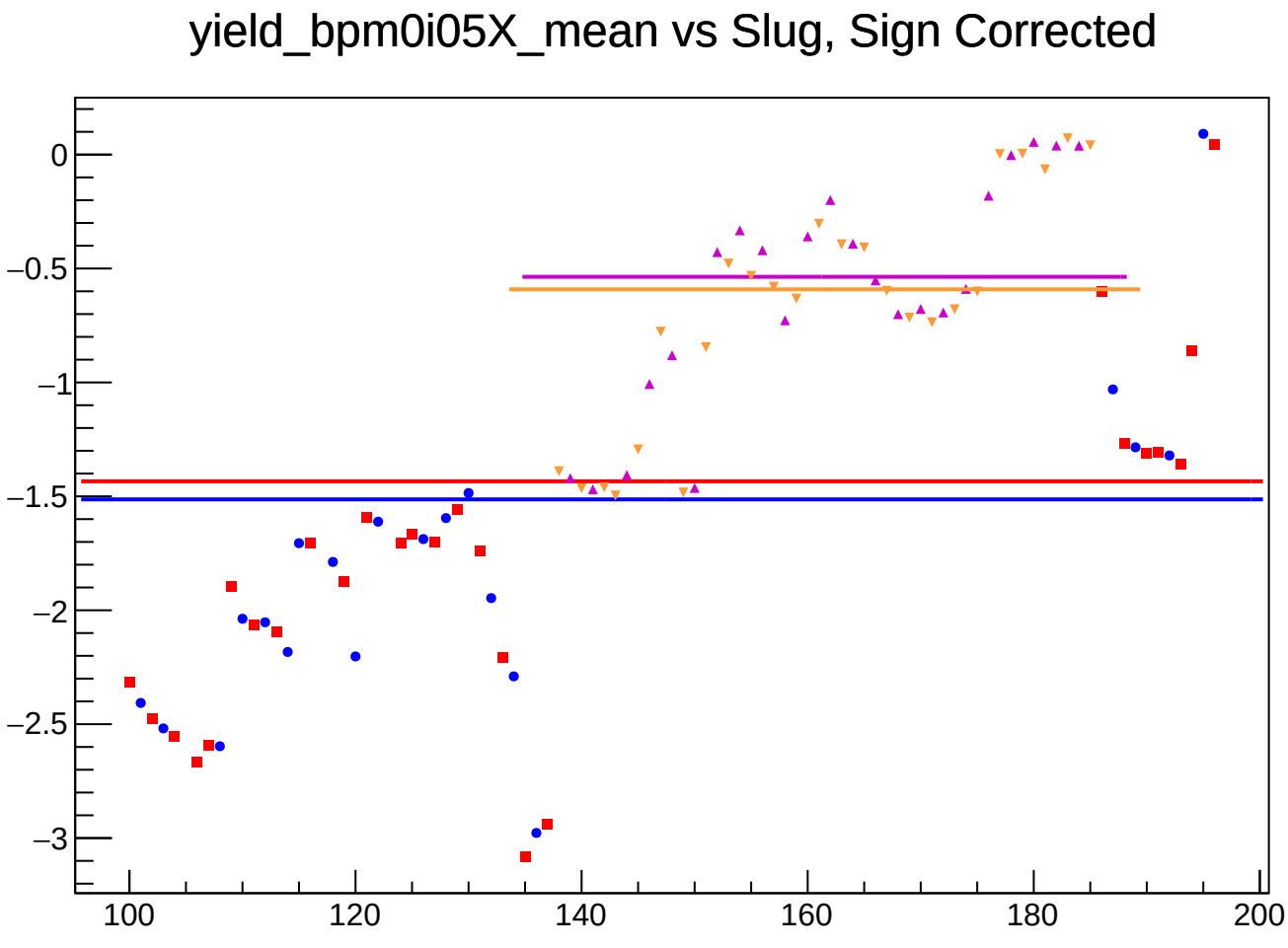
Left: 0.008+/-0.000 $\chi^2$/NDF: 736335.1/47

Right: 0.009+/-0.000 $\chi^2$/NDF: 1011053.6/45

In: 0.008+/-0.000 $\chi^2$/NDF:1052961.6/42

Out: 0.009+/-0.000 $\chi^2$/NDF:1246211.2/50

All: 0.008+/-0.000 $\chi^2$/NDF: 2300791.2/93




Right In: -1.513+/-0.000 $\chi^2$/NDF: 160650184450.9/19

Left Out: -0.591+/-0.000 $\chi^2$/NDF:72678844667.5/24

Right Out: -1.434+/-0.000 $\chi^2$/NDF: 168787034677.2/25

Left In: -0.536+/-0.000 $\chi^2$/NDF:70168781562.6/22

Left: -0.564+/-0.000 $\chi^2$/NDF: 143410113051.4/47

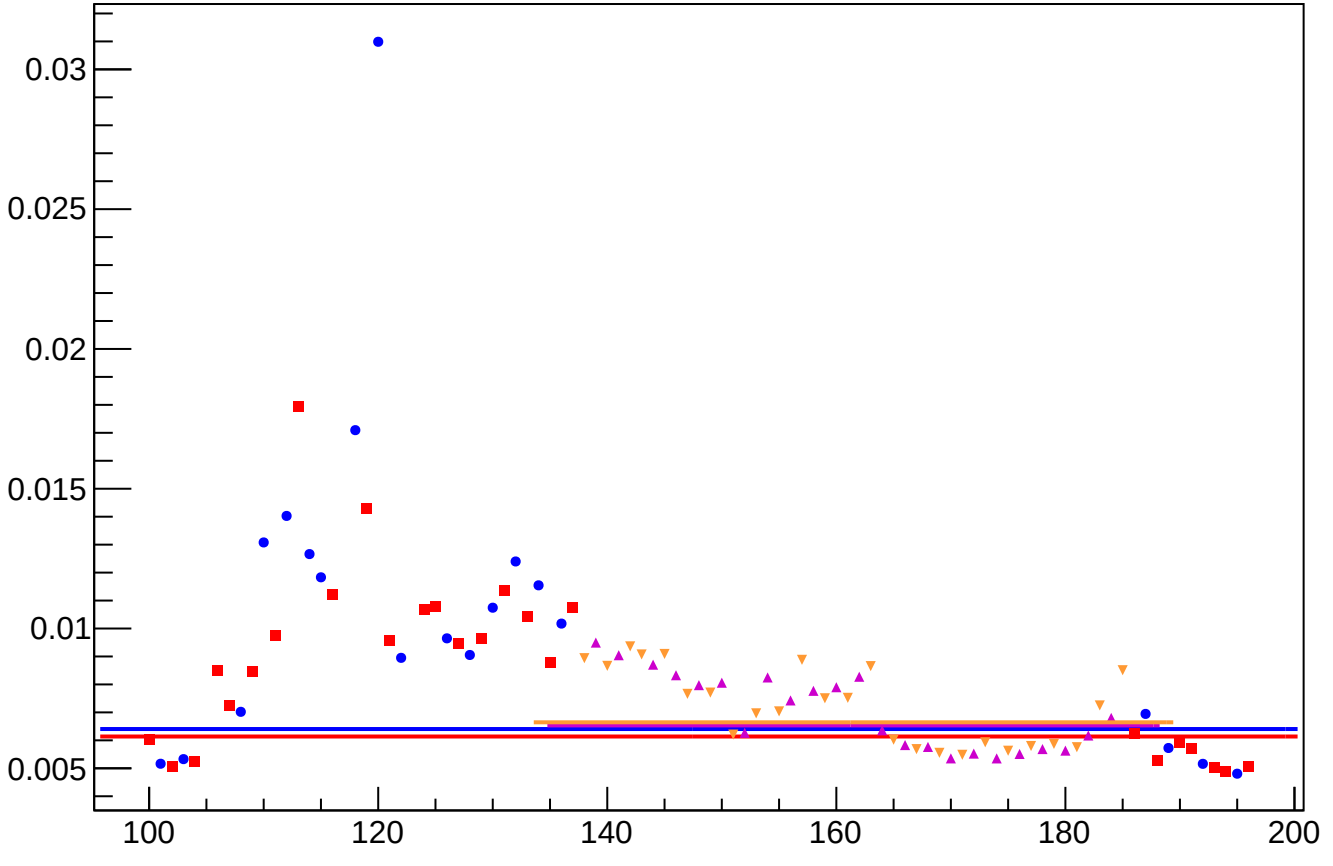
Right: -1.467+/-0.000 $\chi^2$/NDF: 330082184642.8/45

In: -0.849+/-0.000 $\chi^2$/NDF:344269925870.6/42

Out: -0.924+/-0.000 $\chi^2$/NDF:347905759382.9/50

All: -0.889+/-0.000 $\chi^2$/NDF: 693815280202.2

# yield_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 2275315.5/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1091920.0/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 2046210.9/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:1151126.7/22

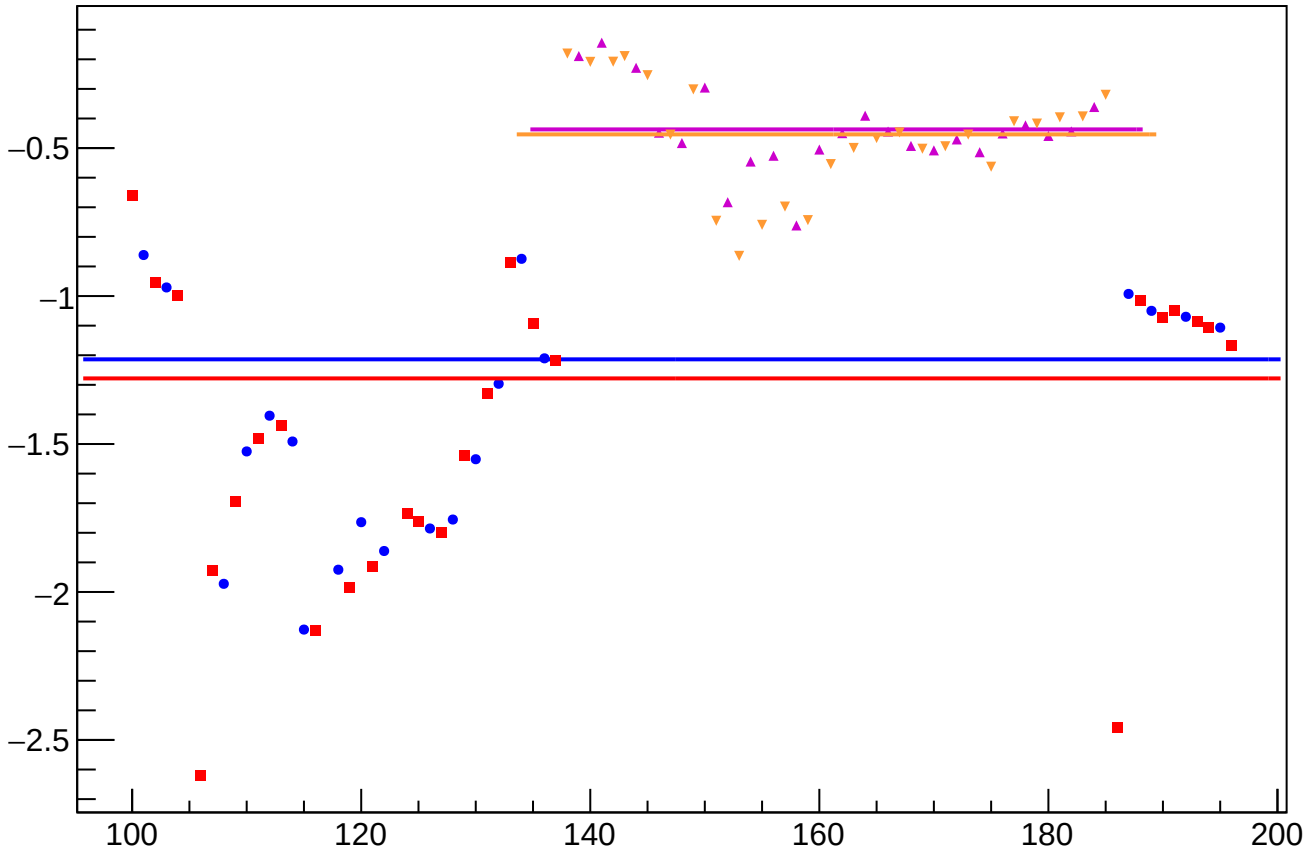
Left: 0.007+/-0.000 $\chi^2$/NDF: 2247615.4/47

Right: 0.006+/-0.000 $\chi^2$/NDF: 4336220.8/45

In: 0.006+/-0.000 $\chi^2$/NDF:3430456.8/42

Out: 0.006+/-0.000 $\chi^2$/NDF:3215469.2/50

All: 0.006+/-0.000 $\chi^2$/NDF: 6647315.2/93




Right In: -1.214+/-0.000 $\chi^2$/NDF: 27020448232.7/19

Left Out: -0.454+/-0.000 $\chi^2$/NDF:29096412438.0/24

Right Out: -1.278+/-0.000 $\chi^2$/NDF: 70904034696.0/25

Left In: -0.437+/-0.000 $\chi^2$/NDF:16544160360.6/22

Left: -0.446+/-0.000 $\chi^2$/NDF: 45759847773.7/47

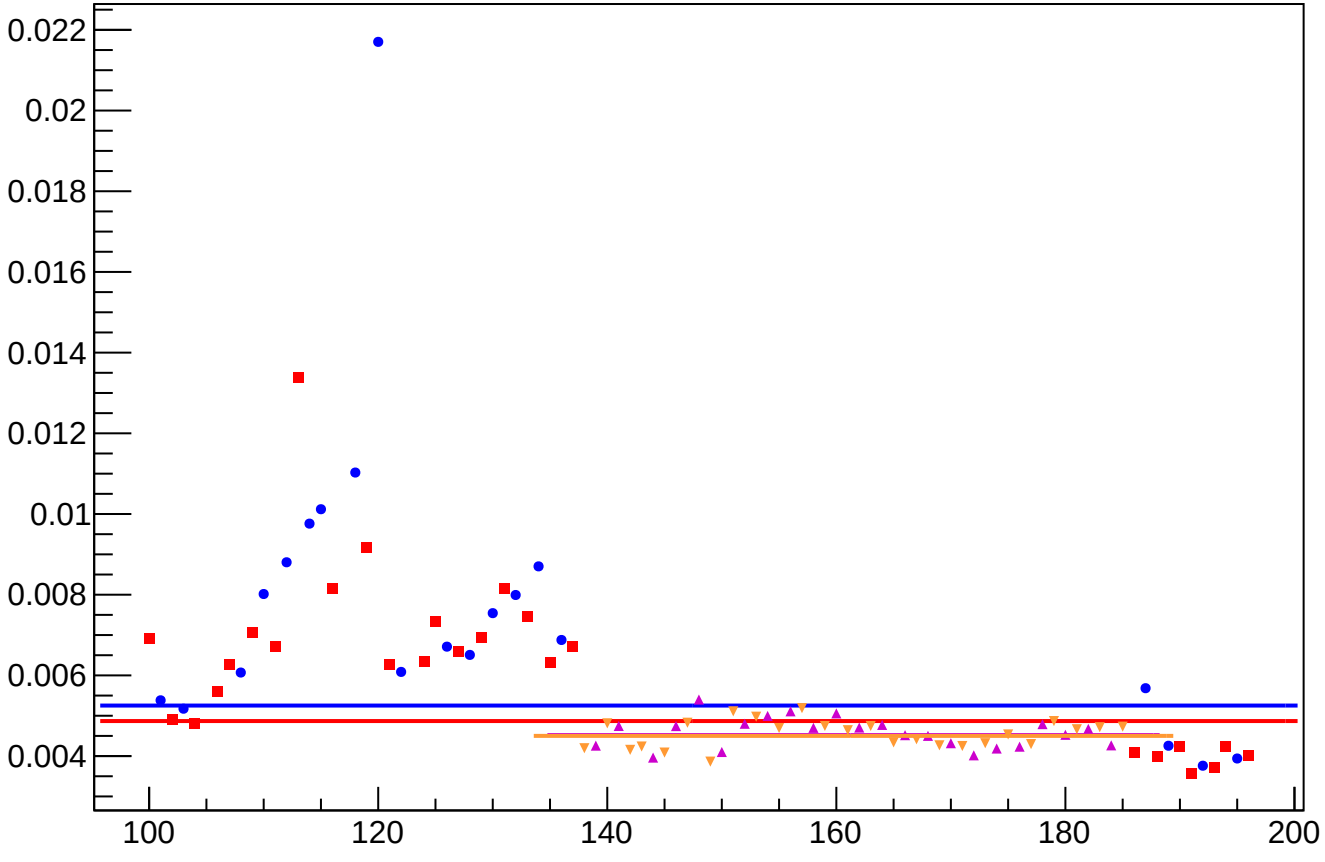
Right: -1.252+/-0.000 $\chi^2$/NDF: 98601244761.7/45

In: -0.632+/-0.000 $\chi^2$/NDF:167114747942.2/42

Out: -0.715+/-0.000 $\chi^2$/NDF:287648952734.2/50

All: -0.677+/-0.000 $\chi^2$/NDF: 458833926703.4

# yield_bpm0i05Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 1687945.0/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:189230.5/24

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 1612162.9/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:212056.7/22

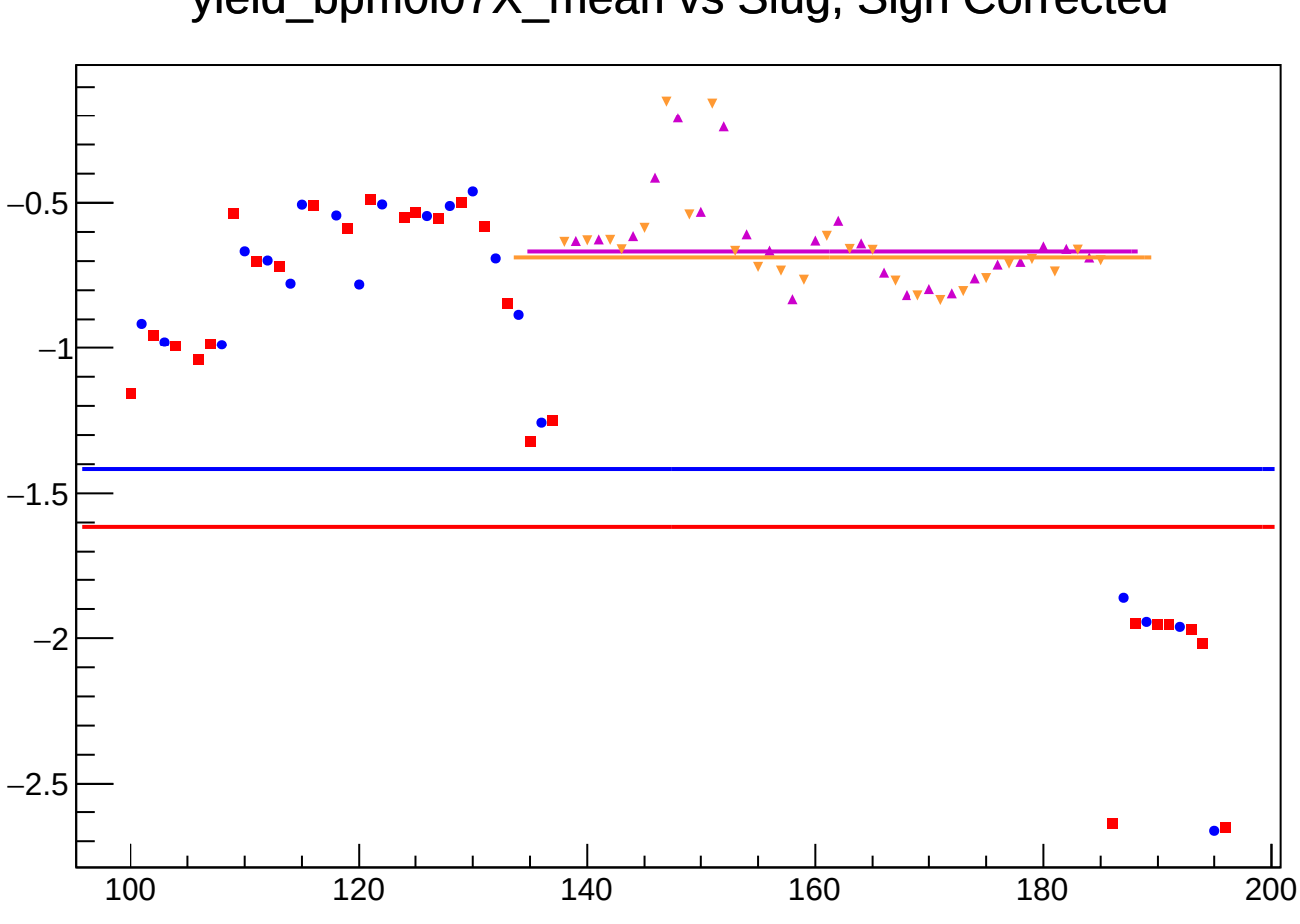
Left: 0.005+/-0.000 $\chi^2$/NDF: 401608.0/47

Right: 0.005+/-0.000 $\chi^2$/NDF: 3348200.3/45

In: 0.005+/-0.000 $\chi^2$/NDF:2119220.0/42

Out: 0.005+/-0.000 $\chi^2$/NDF:1875855.1/50

All: 0.005+/-0.000 $\chi^2$/NDF: 4003913.5/93




Right In: -1.417+/-0.000 $\chi^2$/NDF: 149009229502.4/19

Left Out: -0.687+/-0.000 $\chi^2$/NDF:22462821855.7/24

Right Out: -1.615+/-0.000 $\chi^2$/NDF: 236190269550.3/25

Left In: -0.667+/-0.000 $\chi^2$/NDF:22531477329.1/22

Left: -0.677+/-0.000 $\chi^2$/NDF: 45194028028.5/47

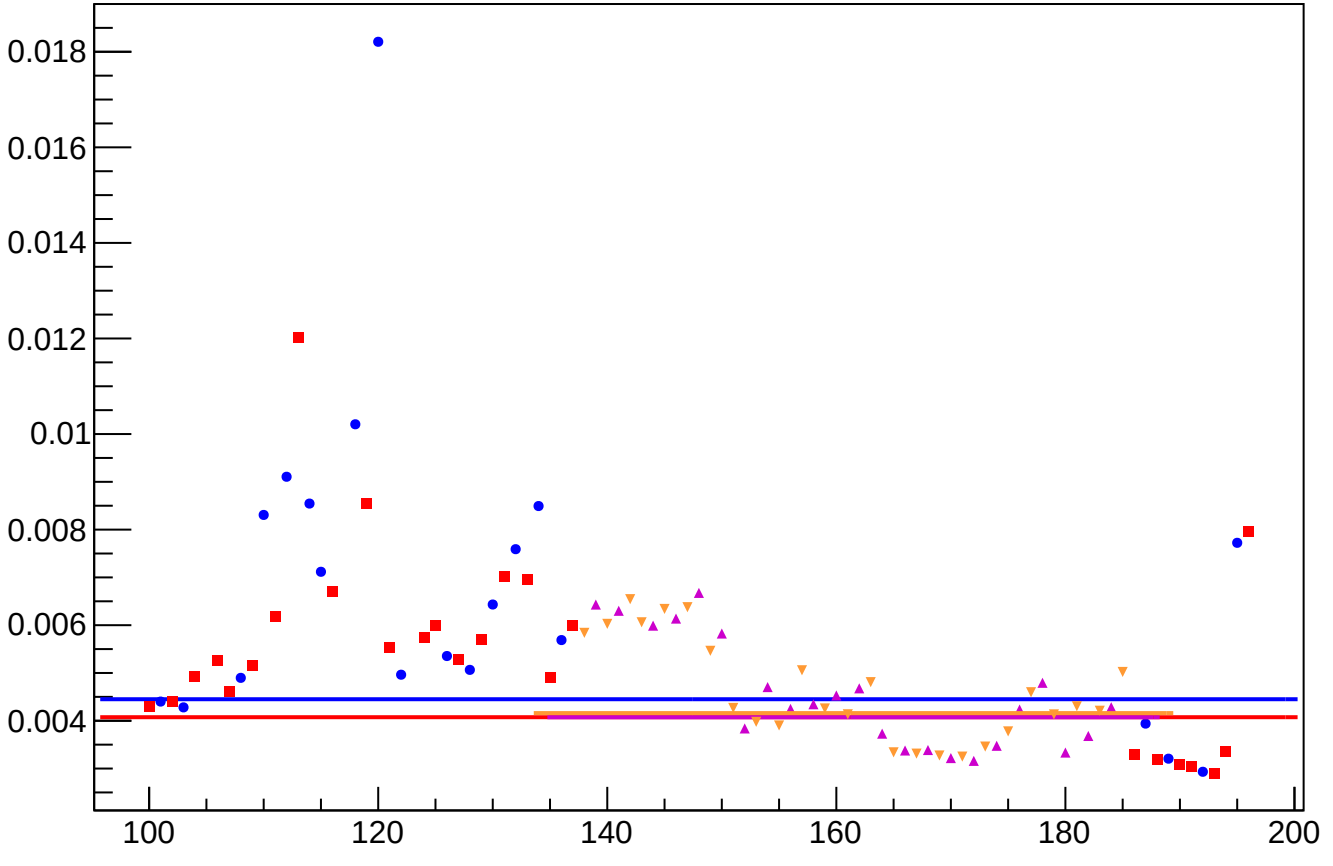
Right: -1.536+/-0.000 $\chi^2$/NDF: 394012659747.4/45

In: -0.877+/-0.000 $\chi^2$/NDF:321460761586.9/42

Out: -1.030+/-0.000 $\chi^2$/NDF:565275736261.0/50

All: -0.959+/-0.000 $\chi^2$/NDF: 903307726527.

# yield_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 2322800.4/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:1520055.0/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 2303819.0/25

Left In: 0.004+/-0.000 $\chi^2$/NDF:1750303.9/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 3277736.9/47

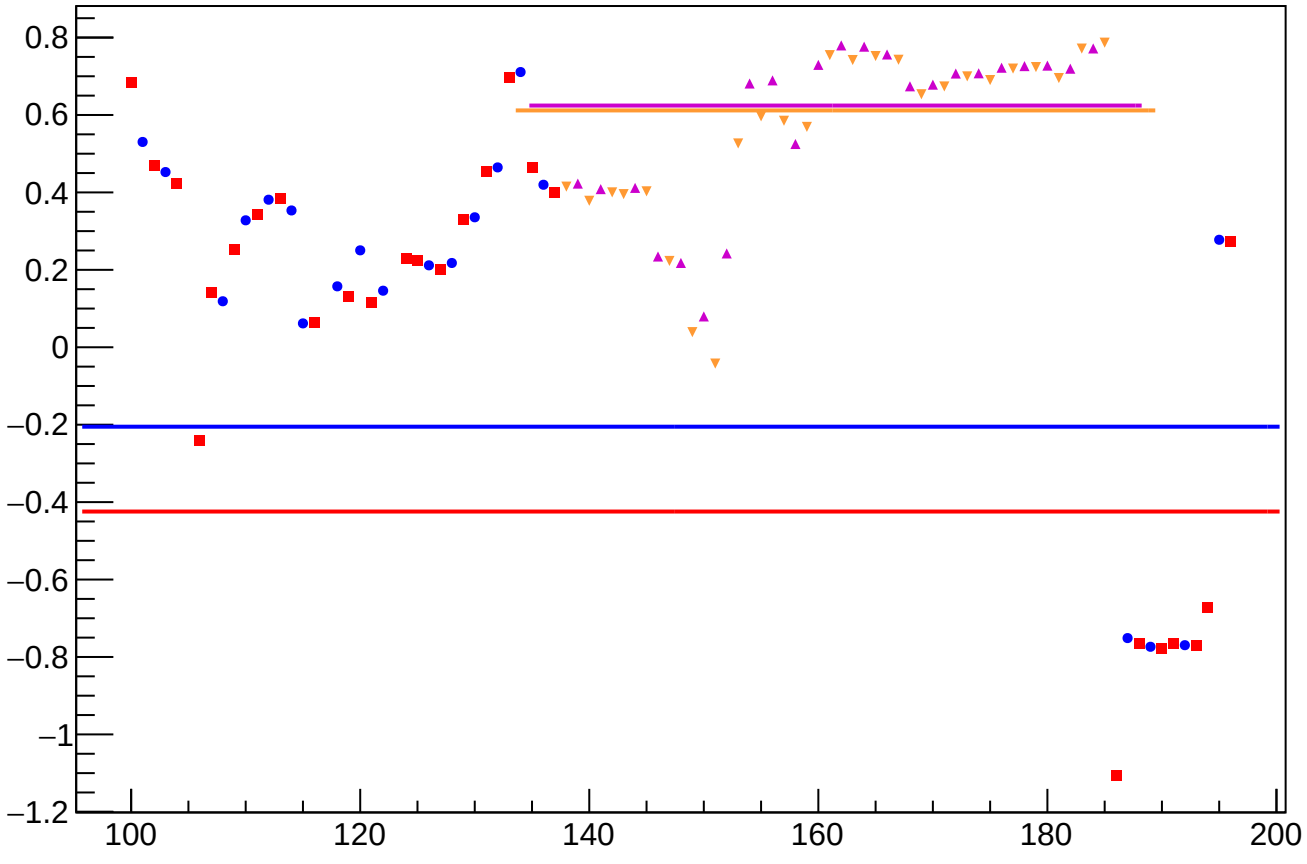
Right: 0.004+/-0.000 $\chi^2$/NDF: 4689972.0/45

In: 0.004+/-0.000 $\chi^2$/NDF:4149277.4/42

Out: 0.004+/-0.000 $\chi^2$/NDF:3829158.9/50

All: 0.004+/-0.000 $\chi^2$/NDF: 7981974.3/93

# yield_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: -0.205+/-0.000 $\chi^2$/NDF: 267107690248.1/19

Left Out: 0.612+/-0.000 $\chi^2$/NDF:45742599949.2/24

Right Out: -0.424+/-0.000 $\chi^2$/NDF: 399924696110.5/25

Left In: 0.624+/-0.000 $\chi^2$/NDF:40353141115.4/22

Left: 0.618+/-0.000 $\chi^2$/NDF: 86197864169.1/47

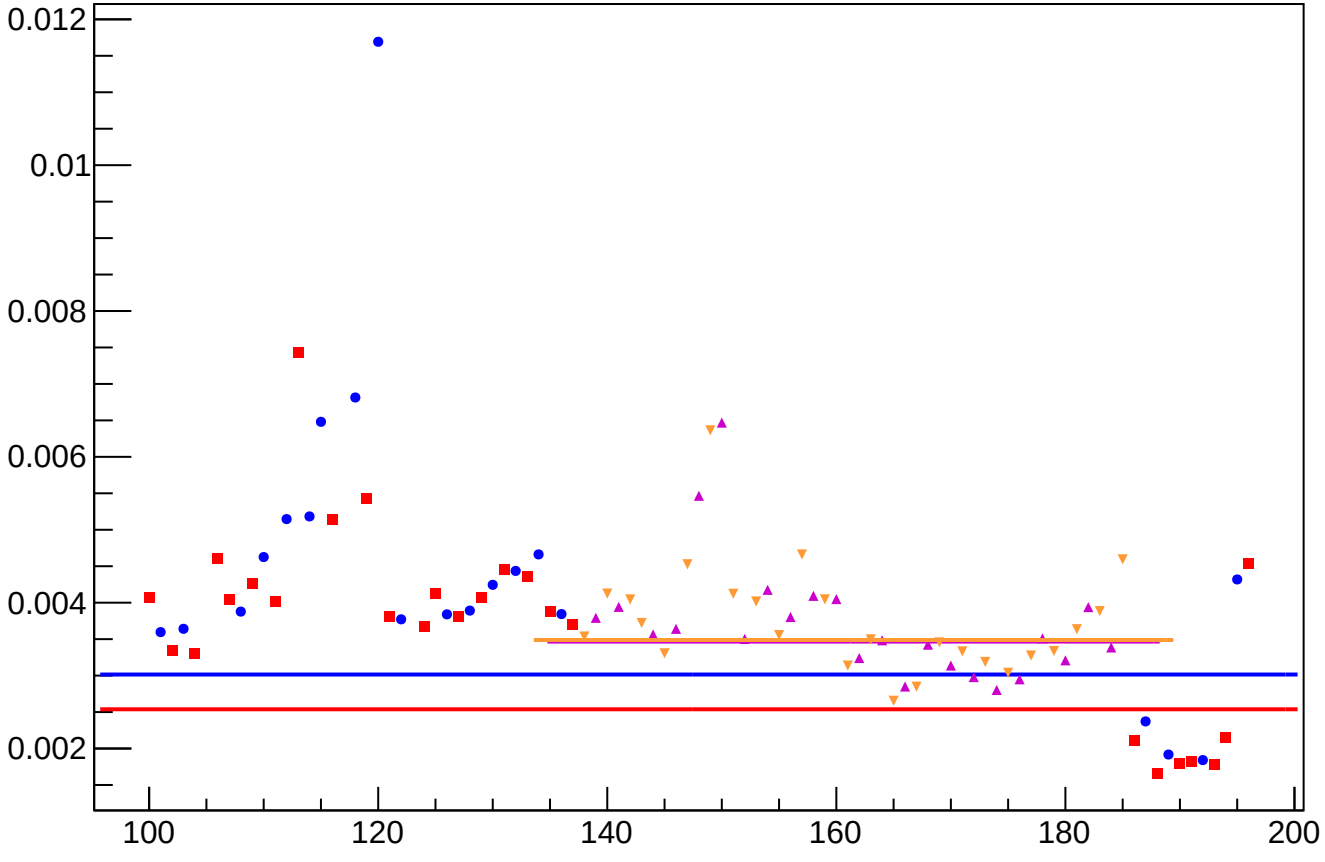
Right: -0.343+/-0.000 $\chi^2$/NDF: 691828135278.0/45

In: 0.298+/-0.000 $\chi^2$/NDF:650062204546.7/42

Out: 0.080+/-0.000 $\chi^2$/NDF:1172955189421.6/50

All: 0.175+/-0.000 $\chi^2$/NDF: 1879494036268.

# yield_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 2532585.8/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:850746.8/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3284818.8/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:894124.0/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 1745449.7/47

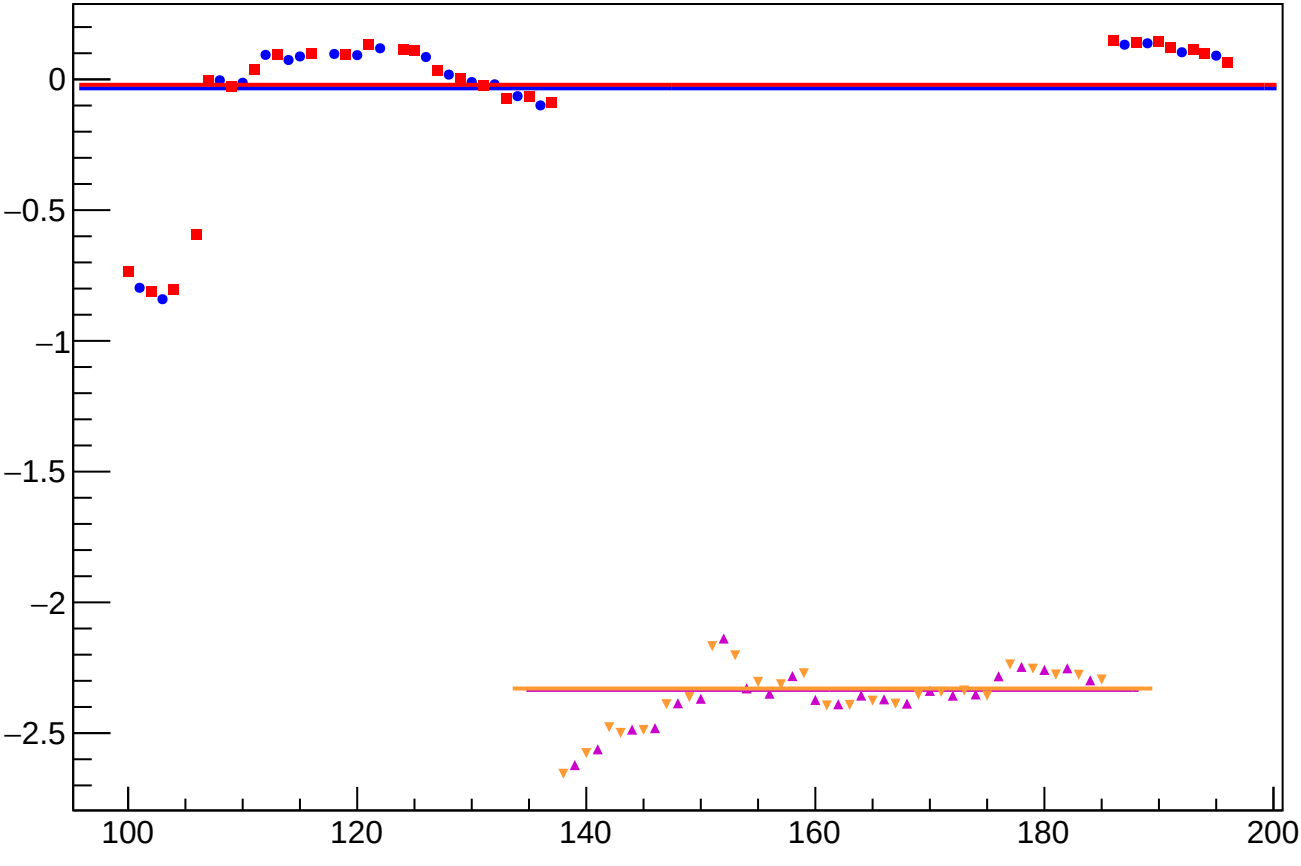
Right: 0.003+/-0.000 $\chi^2$/NDF: 6051848.4/45

In: 0.003+/-0.000 $\chi^2$/NDF:3630248.7/42

Out: 0.003+/-0.000 $\chi^2$/NDF:5357841.8/50

All: 0.003+/-0.000 $\chi^2$/NDF: 9185192.1/93

# yield_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -0.034+/-0.000 $\chi^2$/NDF: 6232473927.9/19

Left Out: -2.329+/-0.000 $\chi^2$/NDF:1982733526.8/24

Right Out: -0.021+/-0.000 $\chi^2$/NDF: 7588441939.1/25

Left In: -2.335+/-0.000 $\chi^2$/NDF:1676703216.8/22

Left: -2.332+/-0.000 $\chi^2$/NDF: 3662448442.3/47

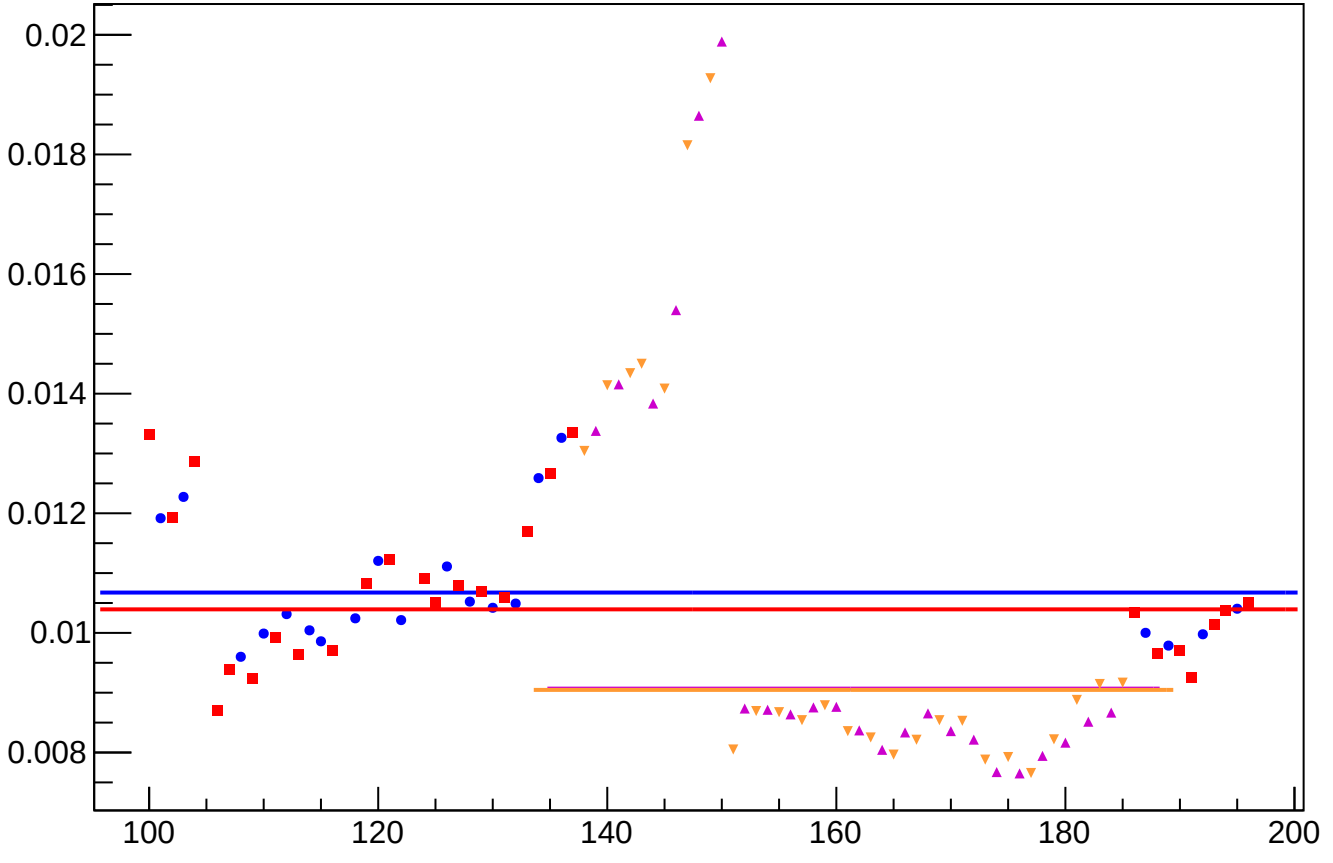
Right: -0.027+/-0.000 $\chi^2$/NDF: 13829695349.9/45

In: -1.670+/-0.000 $\chi^2$/NDF:326764936833.4/42

Out: -1.568+/-0.000 $\chi^2$/NDF:399921122732.2/50

All: -1.616+/-0.000 $\chi^2$/NDF: 728304317044.8

# yield_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 165134.4/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:2048729.6/24

Right Out: 0.010+/-0.000 $\chi^2$/NDF: 220711.4/25

Left In: 0.009+/-0.000 $\chi^2$/NDF:2134207.9/22

Left: 0.009+/-0.000 $\chi^2$/NDF: 4183033.5/47

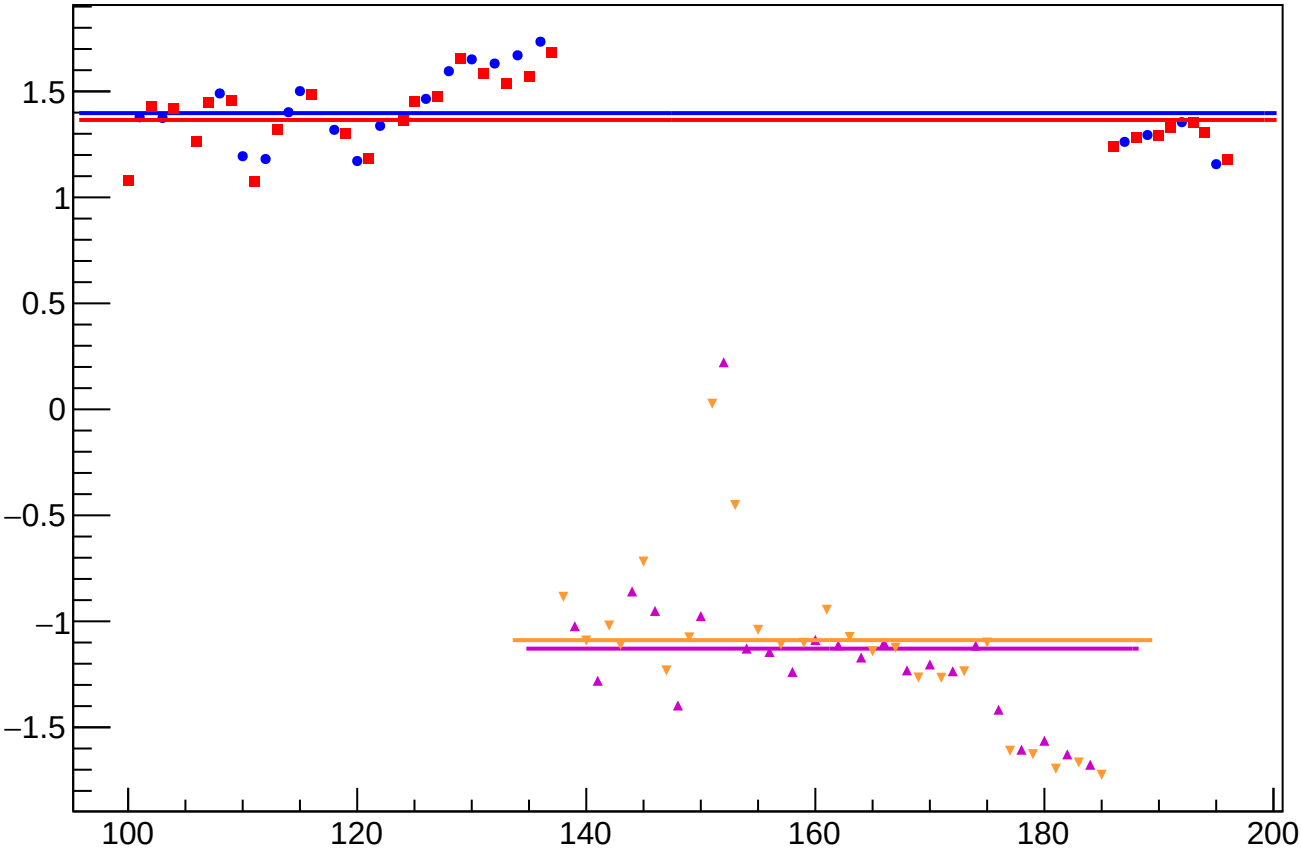
Right: 0.011+/-0.000 $\chi^2$/NDF: 393375.1/45

In: 0.010+/-0.000 $\chi^2$/NDF:2610316.0/42

Out: 0.009+/-0.000 $\chi^2$/NDF:2535063.8/50

All: 0.010+/-0.000 $\chi^2$/NDF: 5145906.6/93

# yield_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: 1.397+/-0.000 $\chi^2$/NDF: 5113344142.6/19

Left Out: -1.089+/-0.000 $\chi^2$/NDF:61255304912.3/24

Right Out: 1.365+/-0.000 $\chi^2$/NDF: 3995449316.4/25

Left In: -1.129+/-0.000 $\chi^2$/NDF:58876825364.1/22

Left: -1.108+/-0.000 $\chi^2$/NDF: 120403370890.0/47

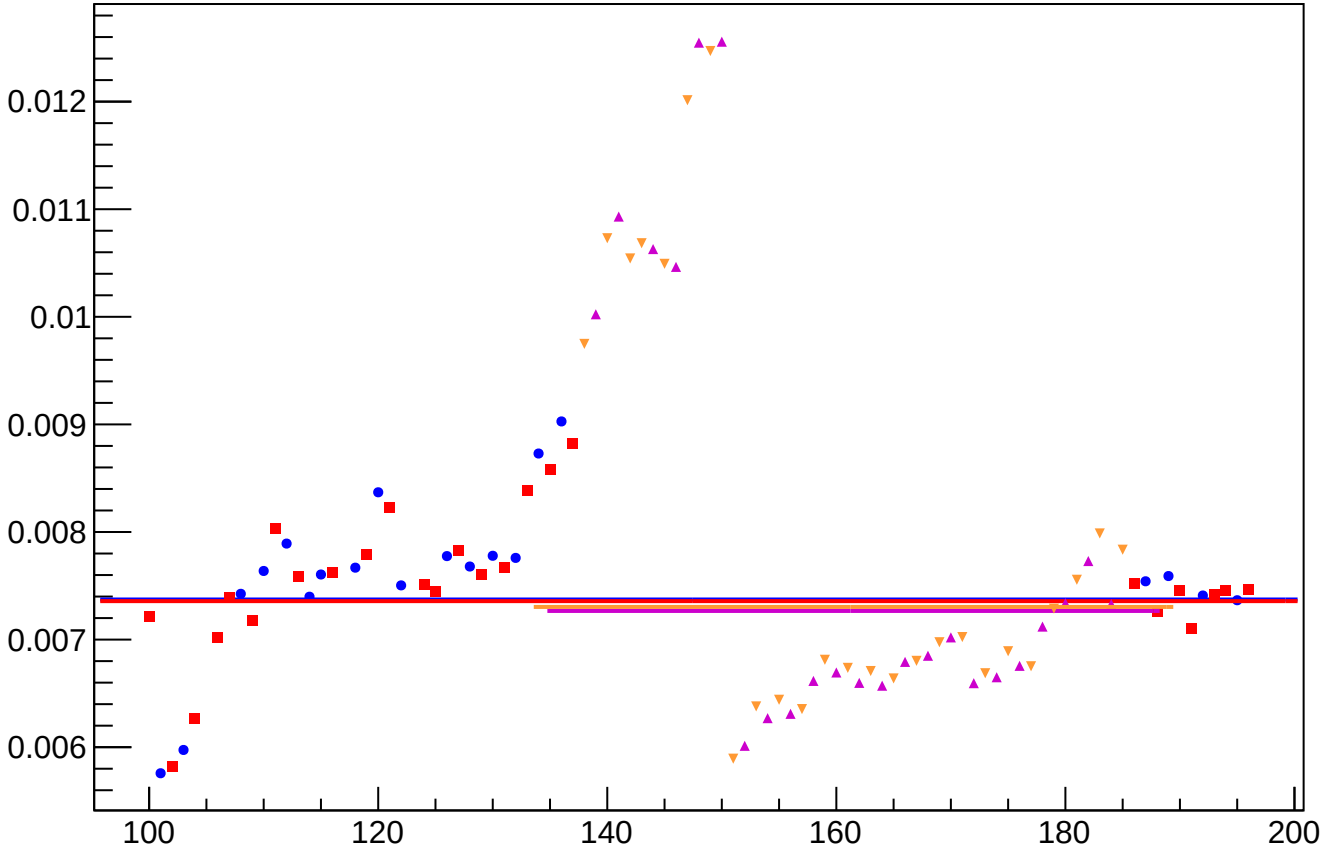
Right: 1.380+/-0.000 $\chi^2$/NDF: 9209864947.8/45

In: -0.250+/-0.000 $\chi^2$/NDF:798360311845.3/42

Out: -0.141+/-0.000 $\chi^2$/NDF:871081235059.5/50

All: -0.193+/-0.000 $\chi^2$/NDF: 1672639189991

# yield_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 272097.5/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1504103.4/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 197757.6/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:1560089.8/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 3064663.5/47

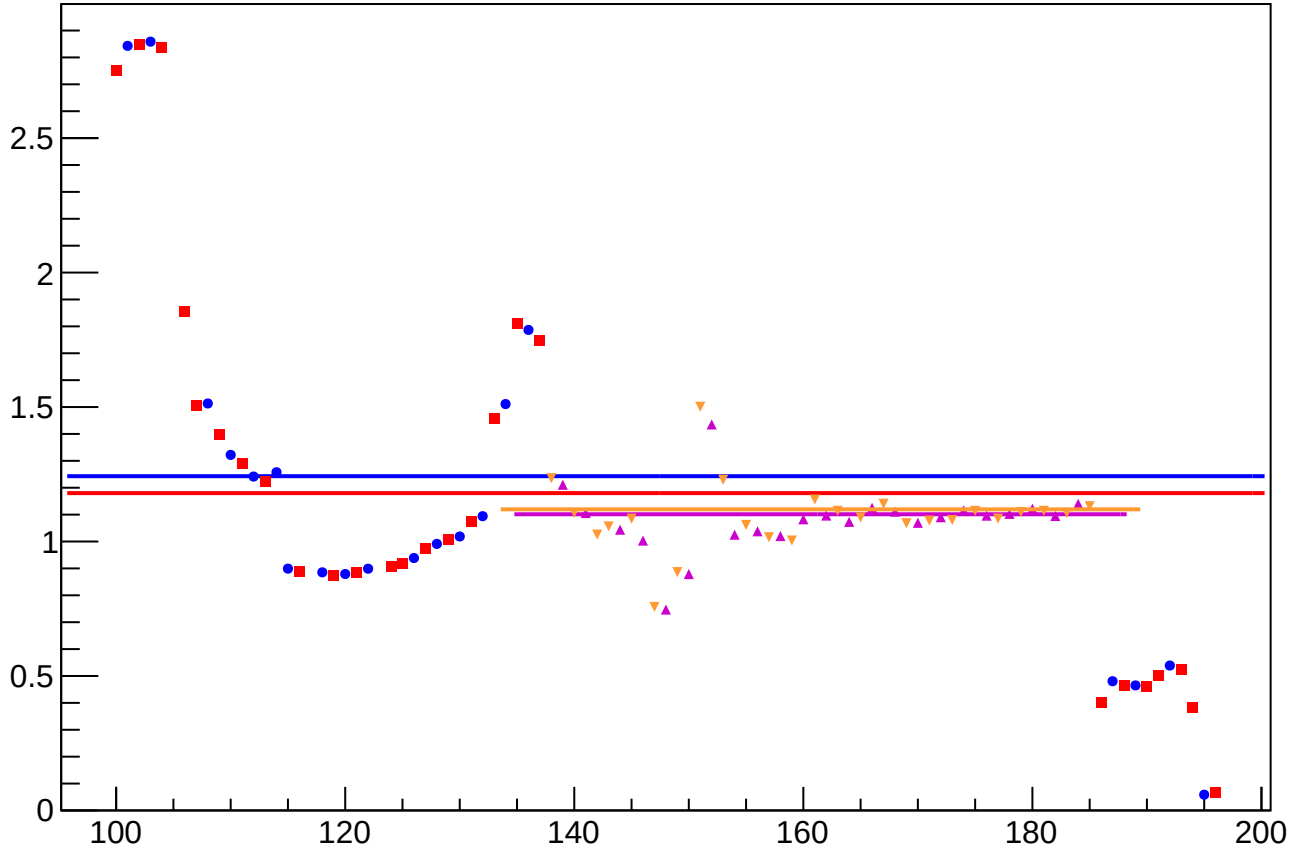
Right: 0.007+/-0.000 $\chi^2$/NDF: 469900.4/45

In: 0.007+/-0.000 $\chi^2$/NDF:1834792.4/42

Out: 0.007+/-0.000 $\chi^2$/NDF:1702637.8/50

All: 0.007+/-0.000 $\chi^2$/NDF: 3537667.8/93

# yield_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 1.243+/-0.000 $\chi^2$/NDF: 82698629165.8/19

Left Out: 1.120+/-0.000 $\chi^2$/NDF:5515079117.9/24

Right Out: 1.180+/-0.000 $\chi^2$/NDF: 91055128302.6/25

Left In: 1.101+/-0.000 $\chi^2$/NDF:4201972548.8/22

Left: 1.111+/-0.000 $\chi^2$/NDF: 9774836704.8/47

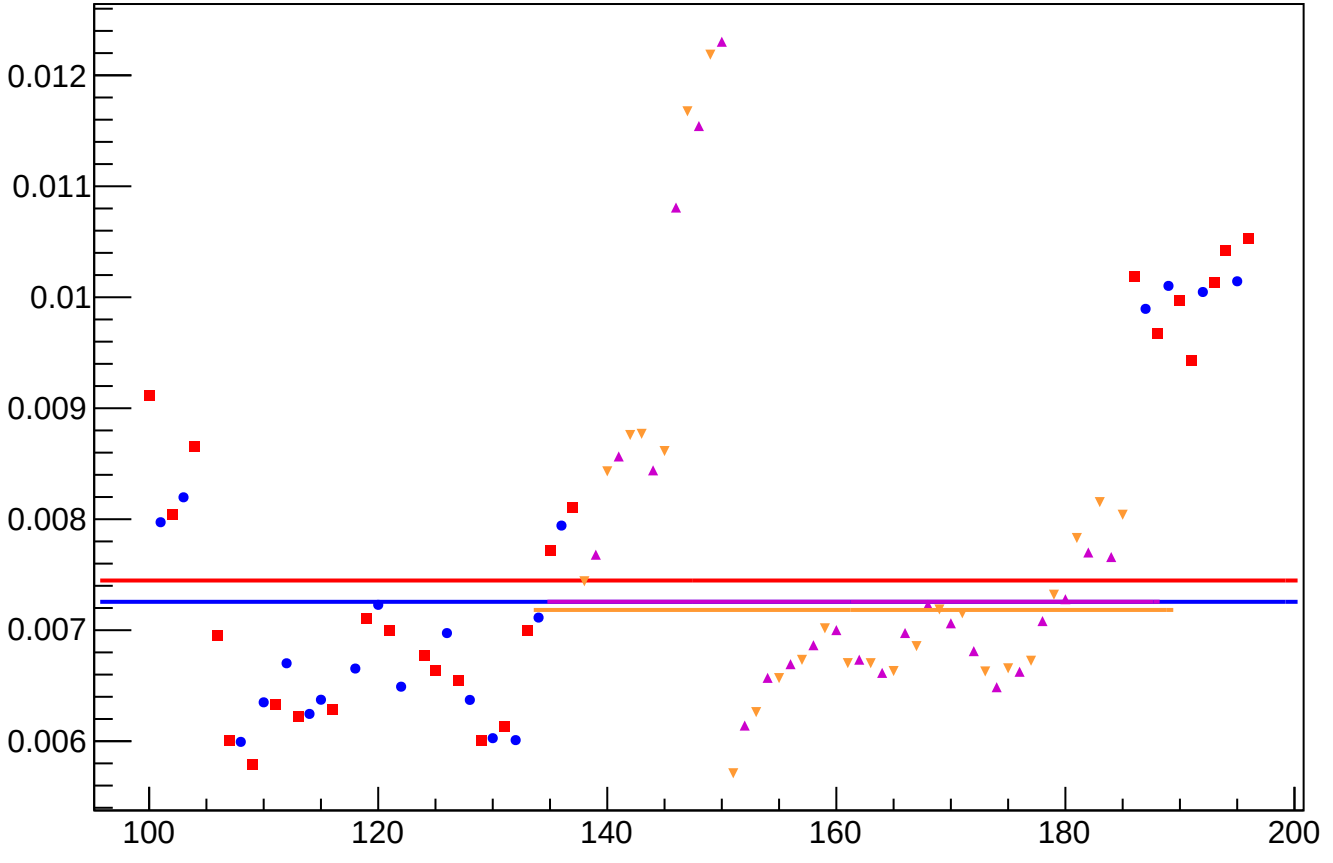
Right: 1.209+/-0.000 $\chi^2$/NDF: 174132233523.9/45

In: 1.151+/-0.000 $\chi^2$/NDF:89233012890.8/42

Out: 1.142+/-0.000 $\chi^2$/NDF:97046615001.3/50

All: 1.146+/-0.000 $\chi^2$/NDF: 186302207199.8

# yield_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 631084.7/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:893807.0/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 984854.6/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:916696.6/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 1812400.5/47

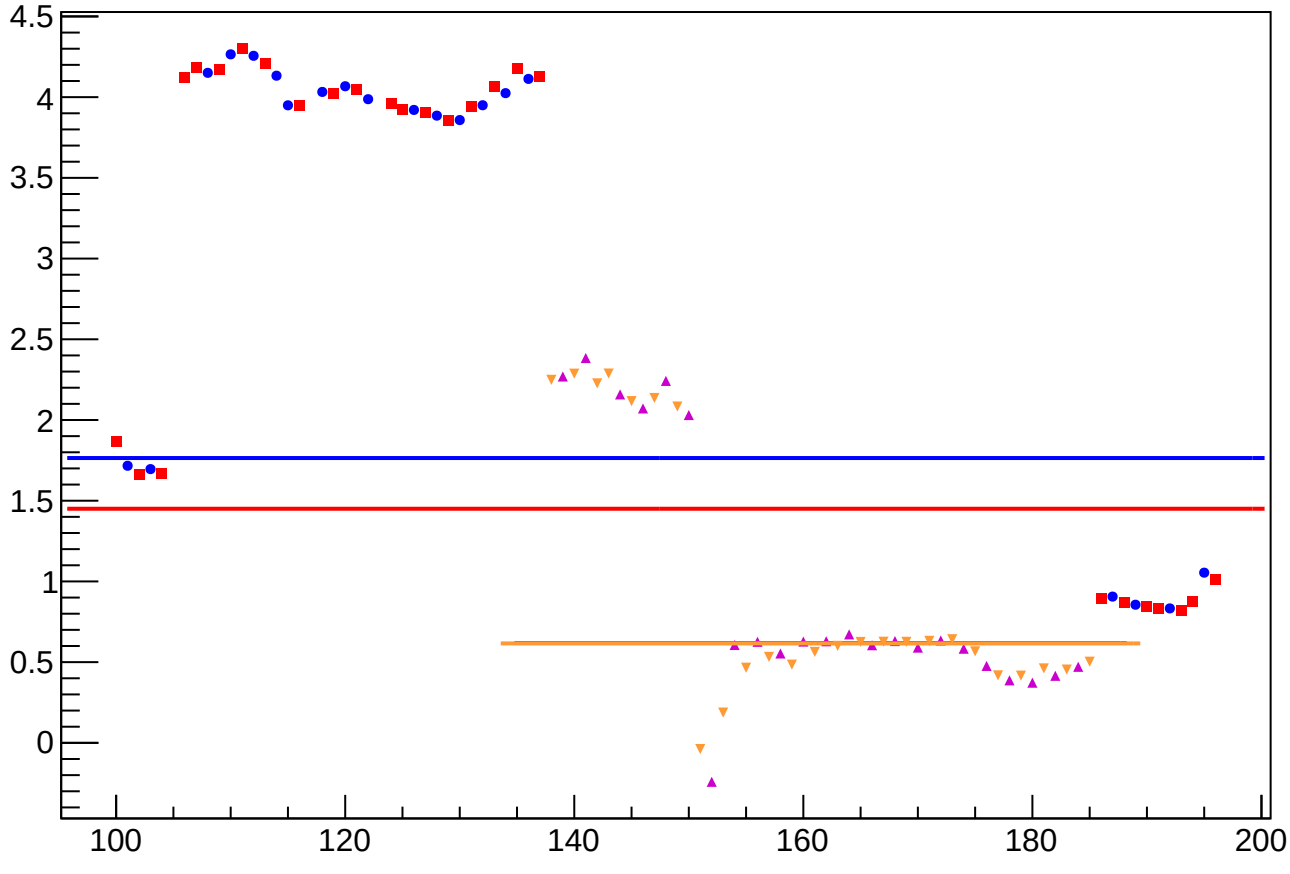
Right: 0.007+/-0.000 $\chi^2$/NDF: 1622996.4/45

In: 0.007+/-0.000 $\chi^2$/NDF:1547781.5/42

Out: 0.007+/-0.000 $\chi^2$/NDF:1897044.8/50

All: 0.007+/-0.000 $\chi^2$/NDF: 3445110.3/93

# yield_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 1.764+/-0.000 $\chi^2$/NDF: 1334248640105.0/19

Left Out: 0.616+/-0.000 $\chi^2$/NDF:251940630795.3/24

Right Out: 1.450+/-0.000 $\chi^2$/NDF: 1659382462482.4/25

Left In: 0.618+/-0.000 $\chi^2$/NDF:254248143278.9/22

Left: 0.617+/-0.000 $\chi^2$/NDF: 506191281472.3/47

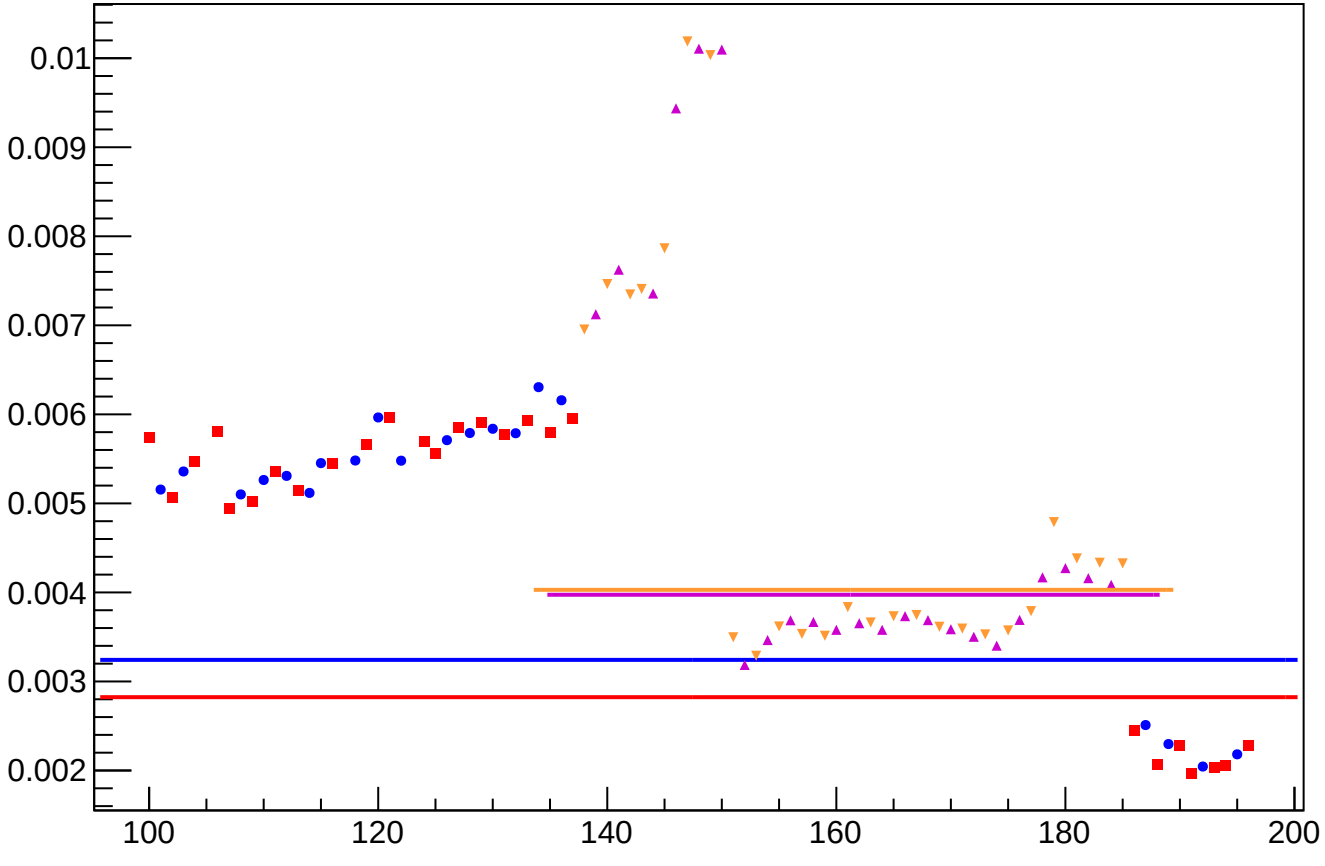
Right: 1.571+/-0.000 $\chi^2$/NDF: 3037770482122.3/45

In: 1.093+/-0.000 $\chi^2$/NDF:2147847104393.5/42

Out: 1.053+/-0.000 $\chi^2$/NDF:2296476599302.8/50

All: 1.071+/-0.000 $\chi^2$/NDF: 4445918808632.

# yield_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3746905.6/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:2965028.8/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4462864.8/25

Left In: 0.004+/-0.000 $\chi^2$/NDF:3121901.5/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 6090115.0/47

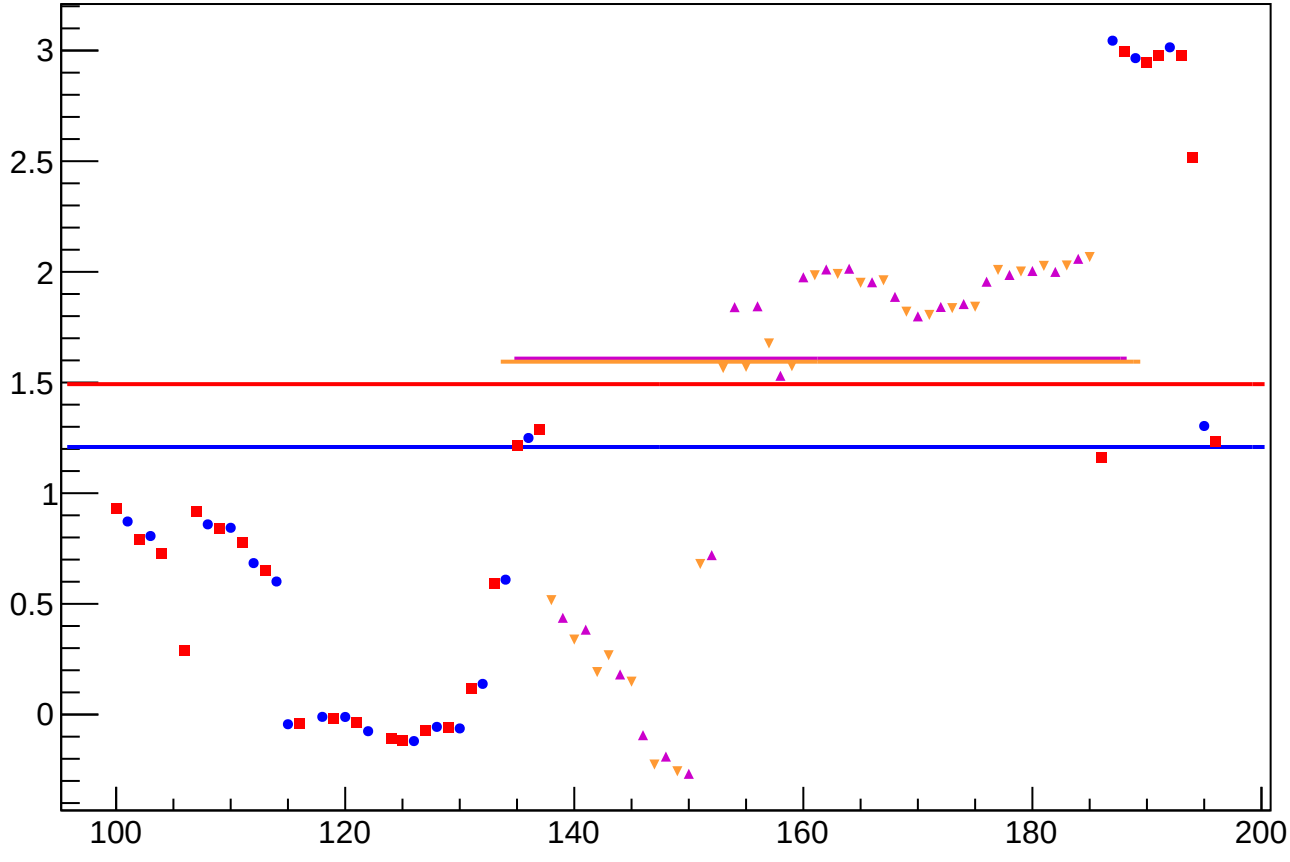
Right: 0.003+/-0.000 $\chi^2$/NDF: 8366767.3/45

In: 0.004+/-0.000 $\chi^2$/NDF:7324502.4/42

Out: 0.003+/-0.000 $\chi^2$/NDF:9036923.1/50

All: 0.004+/-0.000 $\chi^2$/NDF: 16507493.1/93

# yield_bpm1i06X_mean vs Slug, Sign Corrected




Right In: 1.209+/-0.000 $\chi^2$/NDF: 77455155002.7/19

Left Out: 1.594+/-0.000 $\chi^2$/NDF:62632055963.2/24

Right Out: 1.493+/-0.000 $\chi^2$/NDF: 102862366626.5/25

Left In: 1.608+/-0.000 $\chi^2$/NDF:66403809503.4/22

Left: 1.601+/-0.000 $\chi^2$/NDF: 129051467837.0/47

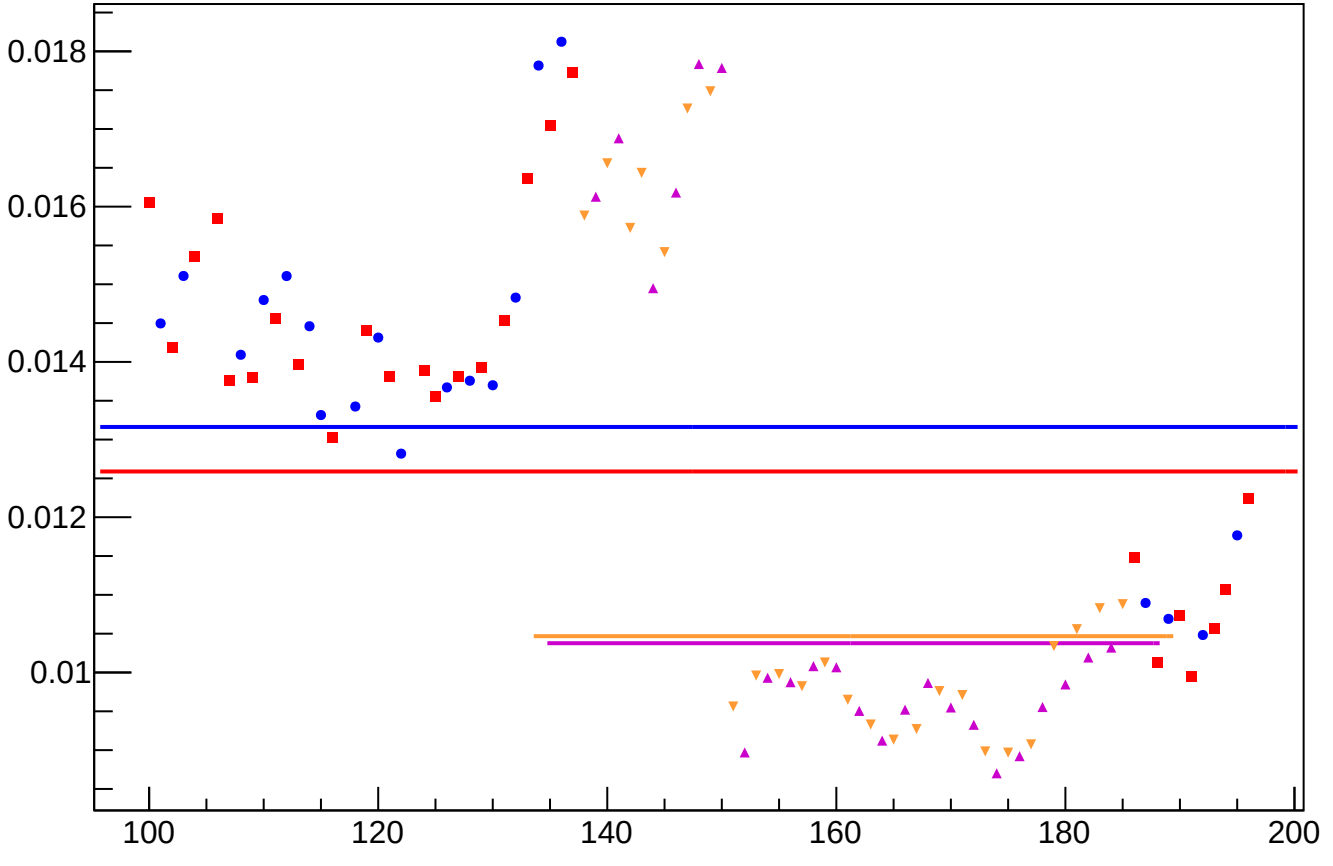
Right: 1.370+/-0.000 $\chi^2$/NDF: 182822389712.1/45

In: 1.507+/-0.000 $\chi^2$/NDF:150349872496.2/42

Out: 1.564+/-0.000 $\chi^2$/NDF:166013554457.5/50

All: 1.537+/-0.000 $\chi^2$/NDF: 316727921681.5

# yield_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 485848.1/19

Left Out: 0.010+/-0.000 $\chi^2$/NDF:1661211.8/24

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 589063.0/25

Left In: 0.010+/-0.000 $\chi^2$/NDF:1710541.0/22

Left: 0.010+/-0.000 $\chi^2$/NDF: 3373093.6/47

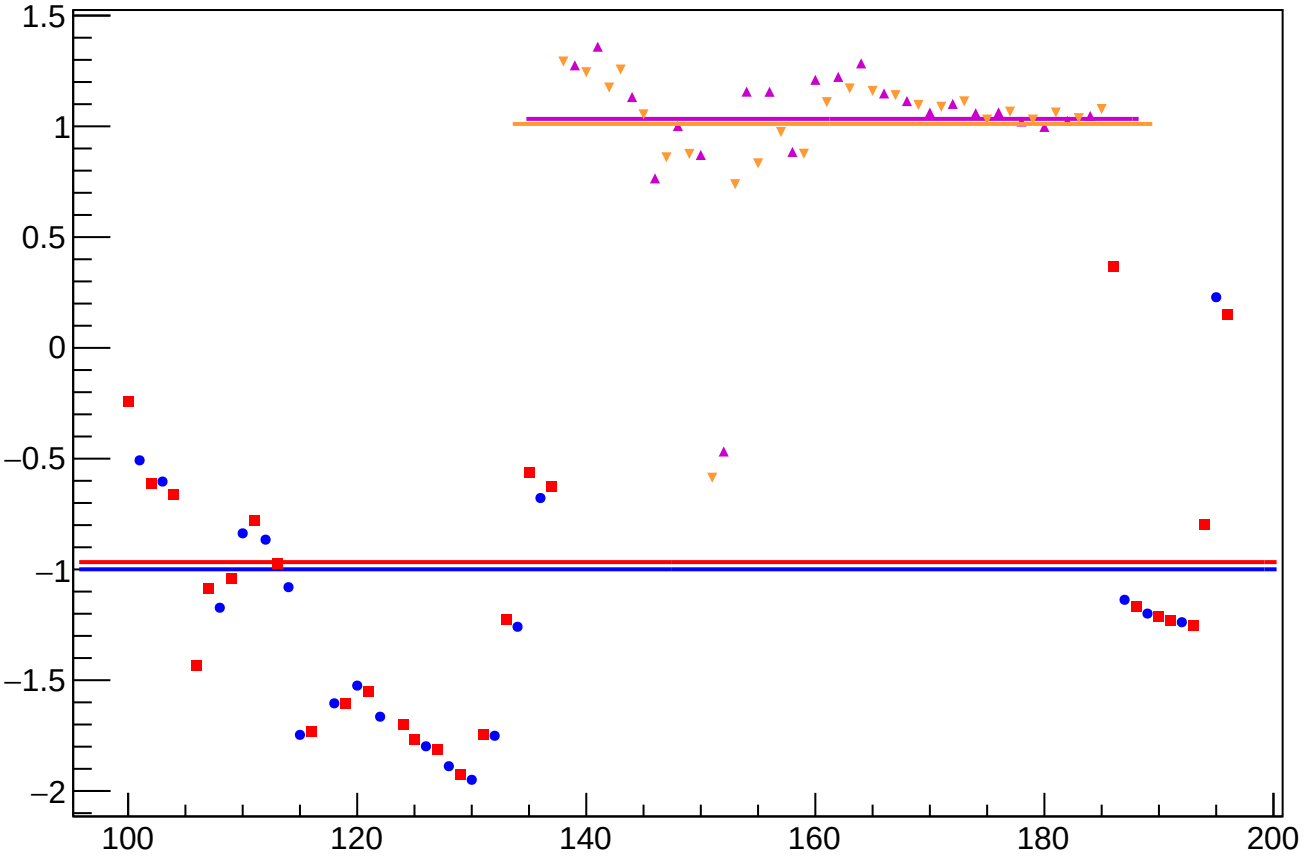
Right: 0.013+/-0.000 $\chi^2$/NDF: 1095325.8/45

In: 0.011+/-0.000 $\chi^2$/NDF:2827960.3/42

Out: 0.011+/-0.000 $\chi^2$/NDF:2703688.4/50

All: 0.011+/-0.000 $\chi^2$/NDF: 5531792.4/93

# yield_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: -0.999+/-0.000 $\chi^2$/NDF: 93298392113.4/19

Left Out: 1.011+/-0.000 $\chi^2$/NDF:111188616245.0/24

Right Out: -0.967+/-0.000 $\chi^2$/NDF: 91745056462.7/25

Left In: 1.034+/-0.000 $\chi^2$/NDF:125385050389.9/22

Left: 1.022+/-0.000 $\chi^2$/NDF: 236930467589.7/47

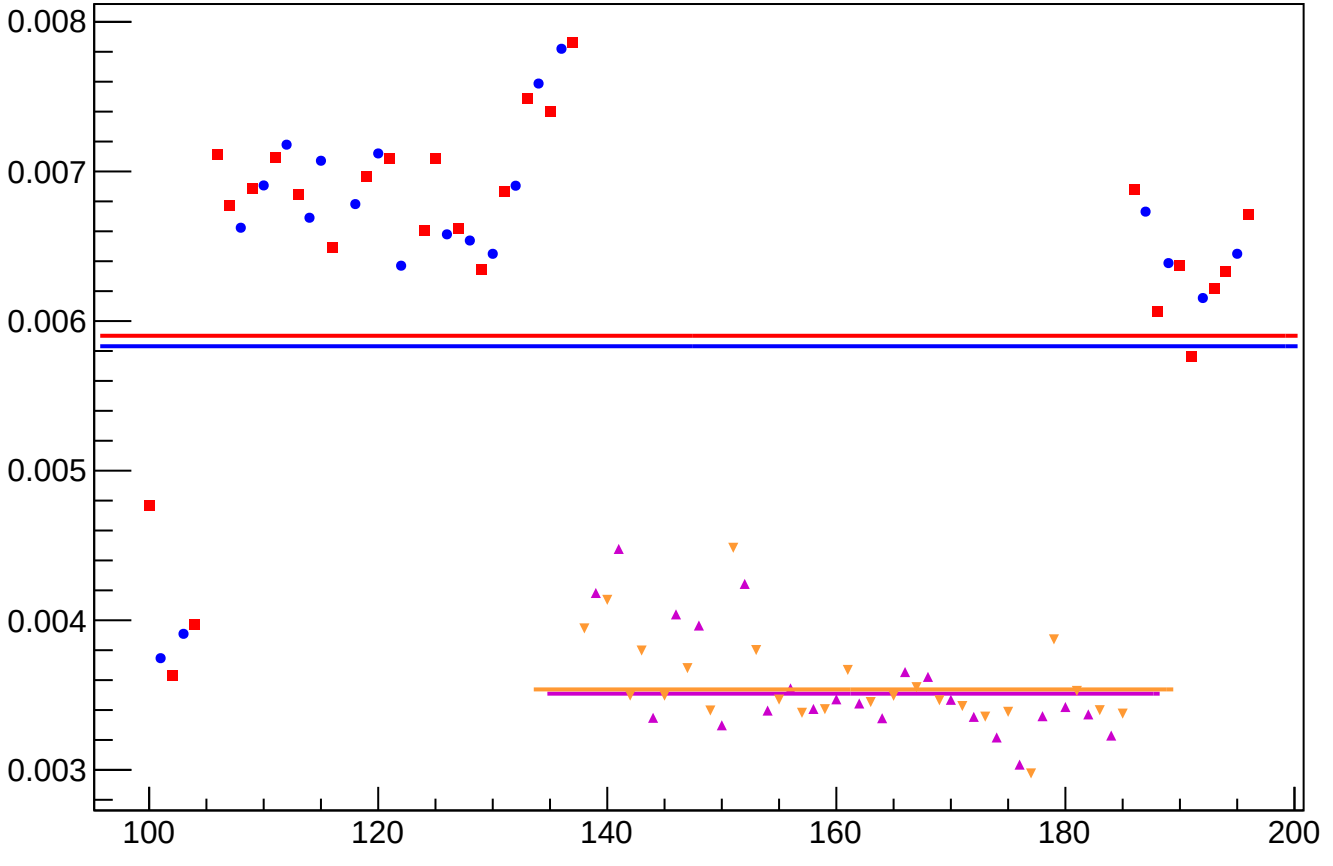
Right: -0.982+/-0.000 $\chi^2$/NDF: 185191634276.8/45

In: 0.706+/-0.000 $\chi^2$/NDF:1115322666059.3/42

Out: 0.656+/-0.000 $\chi^2$/NDF:1189697090187.8/50

All: 0.680+/-0.000 $\chi^2$/NDF: 2307092393164.

# yield_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 988898.8/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:215725.1/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1055251.7/25

Left In: 0.004+/-0.000 $\chi^2$/NDF:284960.7/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 501791.4/47

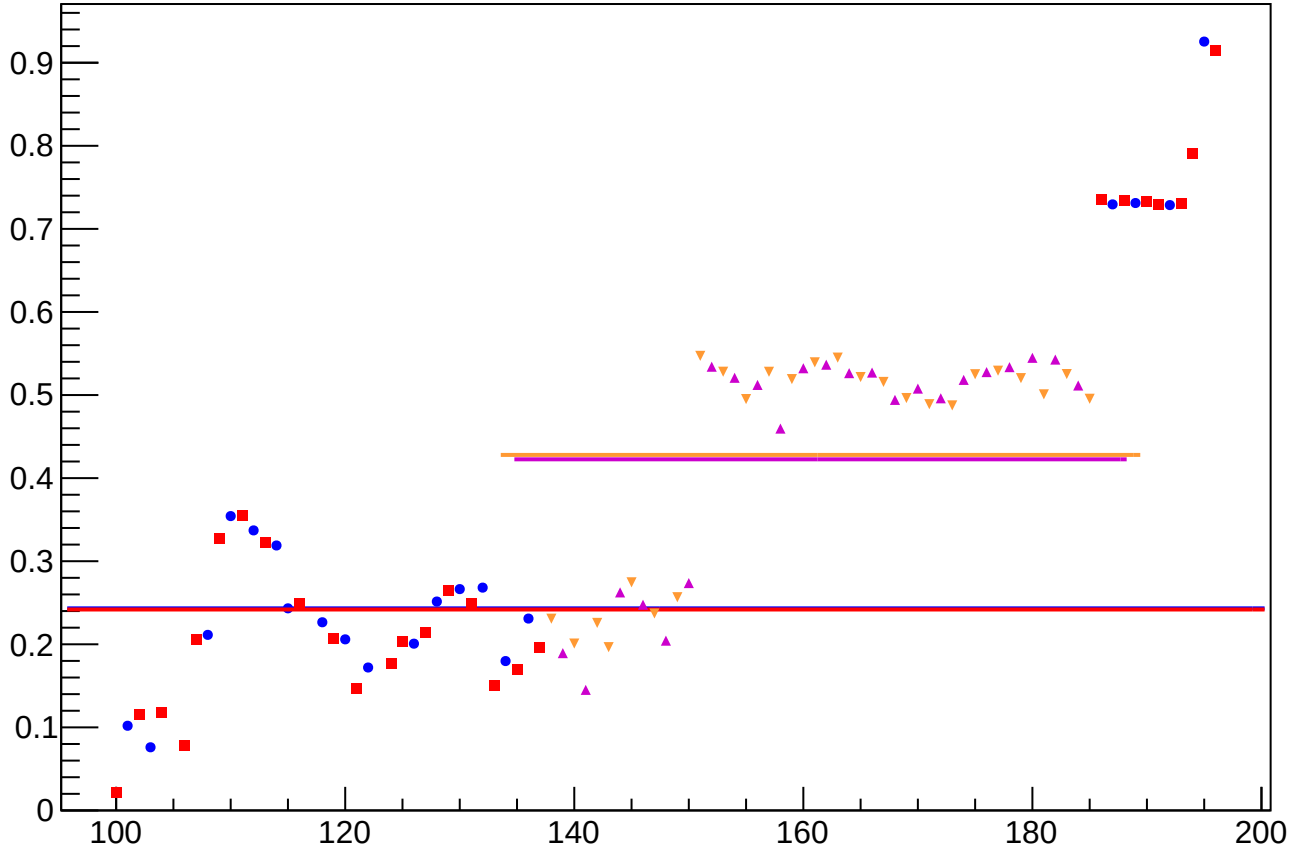
Right: 0.006+/-0.000 $\chi^2$/NDF: 2045525.4/45

In: 0.004+/-0.000 $\chi^2$/NDF:3613428.6/42

Out: 0.004+/-0.000 $\chi^2$/NDF:4089948.2/50

All: 0.004+/-0.000 $\chi^2$/NDF: 7713525.3/93

# yield_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 0.243+/-0.000 $\chi^2$/NDF: 65758091533.1/19

Left Out: 0.428+/-0.000 $\chi^2$/NDF:153820853539.2/24

Right Out: 0.242+/-0.000 $\chi^2$/NDF: 104292520656.6/25

Left In: 0.423+/-0.000 $\chi^2$/NDF:158122093061.2/22

Left: 0.425+/-0.000 $\chi^2$/NDF: 312056221639.2/47

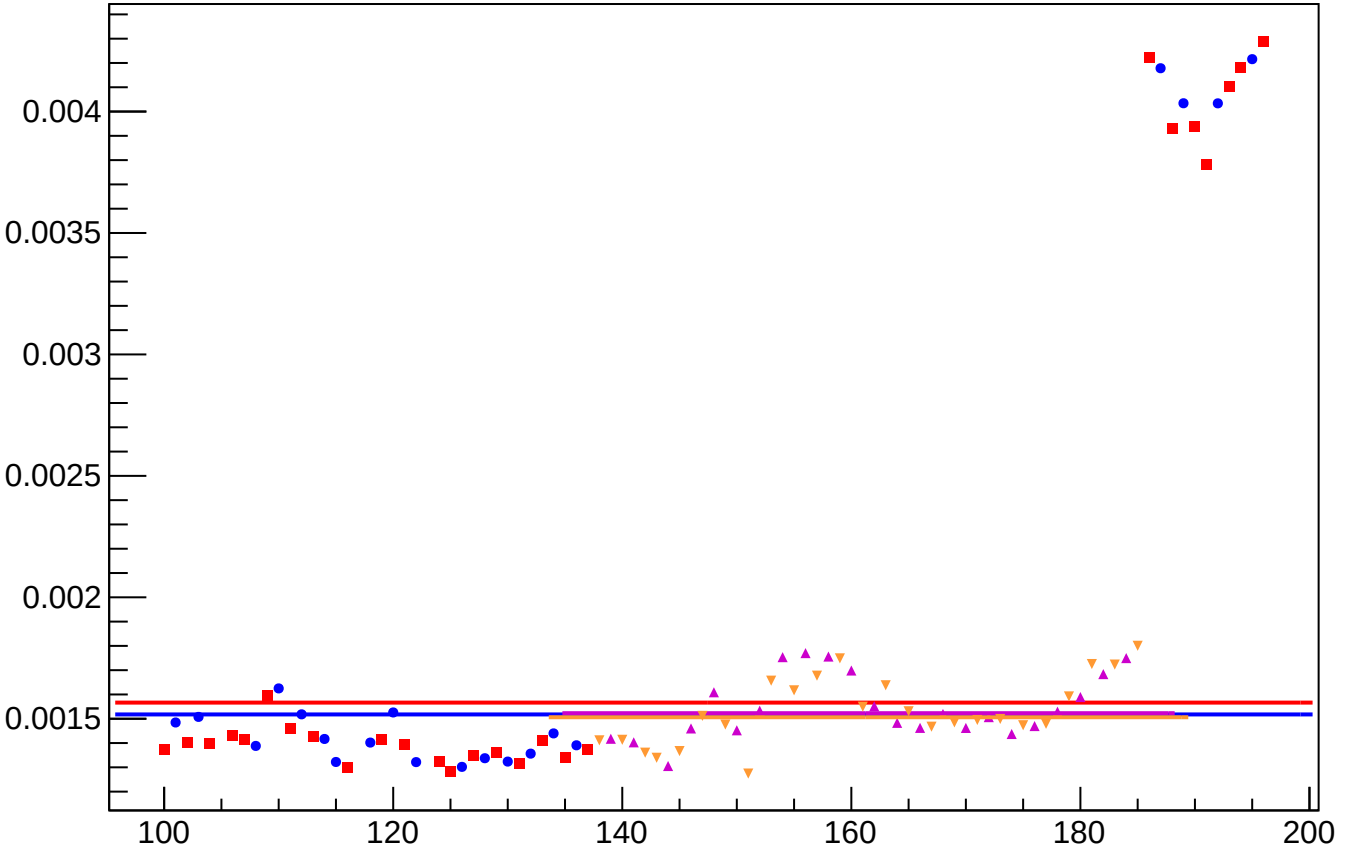
Right: 0.243+/-0.000 $\chi^2$/NDF: 170054242949.6/45

In: 0.365+/-0.000 $\chi^2$/NDF:303876760646.5/42

Out: 0.367+/-0.000 $\chi^2$/NDF:352852465447.8/50

All: 0.366+/-0.000 $\chi^2$/NDF: 656758101654.0

# yield_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2162411.2/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:278895.8/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3656142.8/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:234679.9/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 515814.5/47

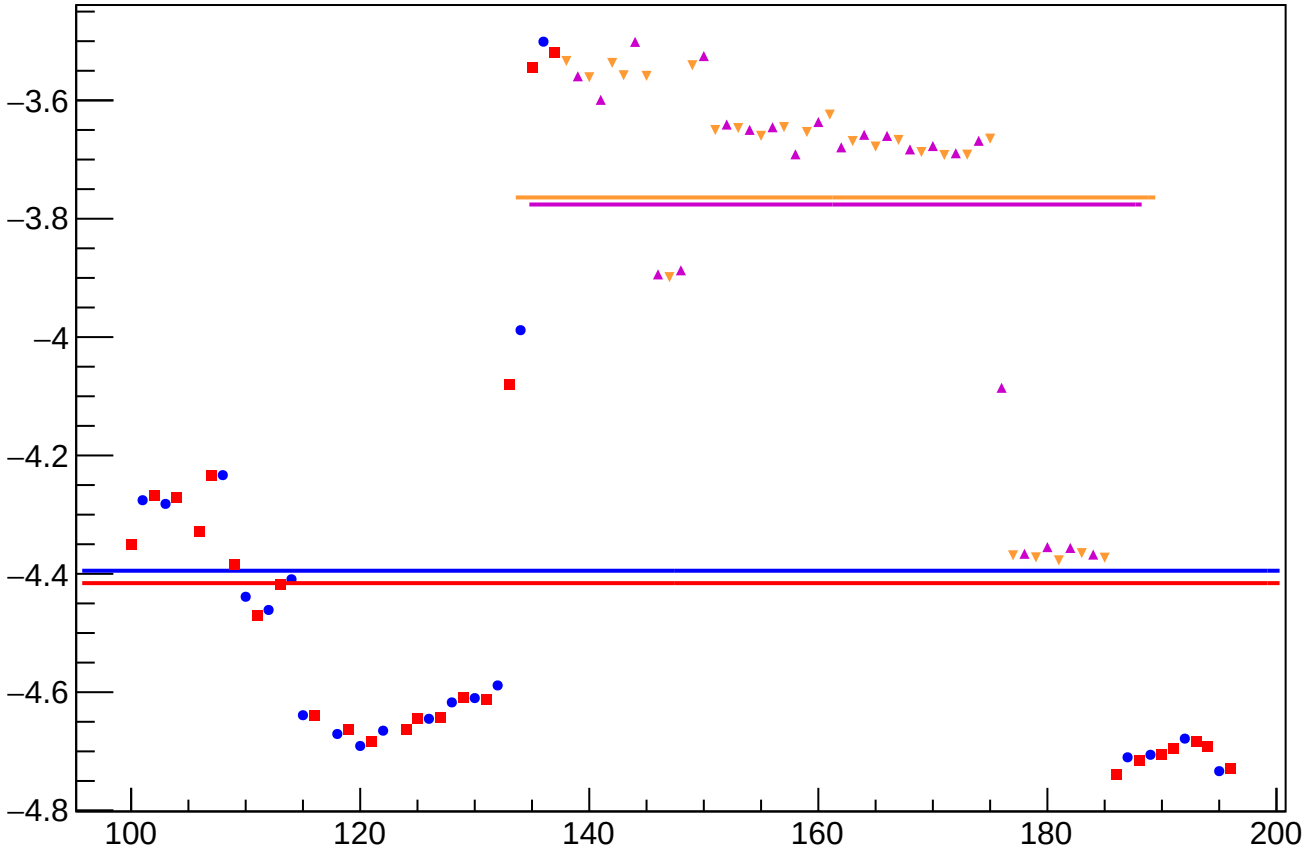
Right: 0.002+/-0.000 $\chi^2$/NDF: 5827691.6/45

In: 0.002+/-0.000 $\chi^2$/NDF:2397220.3/42

Out: 0.002+/-0.000 $\chi^2$/NDF:3954930.8/50

All: 0.002+/-0.000 $\chi^2$/NDF: 6352405.8/93

# yield_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: -4.395+/-0.000 $\chi^2$/NDF: 378332932603.2/19

Left Out: -3.764+/-0.000 $\chi^2$/NDF:483461311370.8/24

Right Out: -4.416+/-0.000 $\chi^2$/NDF: 338736037480.6/25

Left In: -3.776+/-0.000 $\chi^2$/NDF:402659987166.3/22

Left: -3.770+/-0.000 $\chi^2$/NDF: 886556013091.1/47

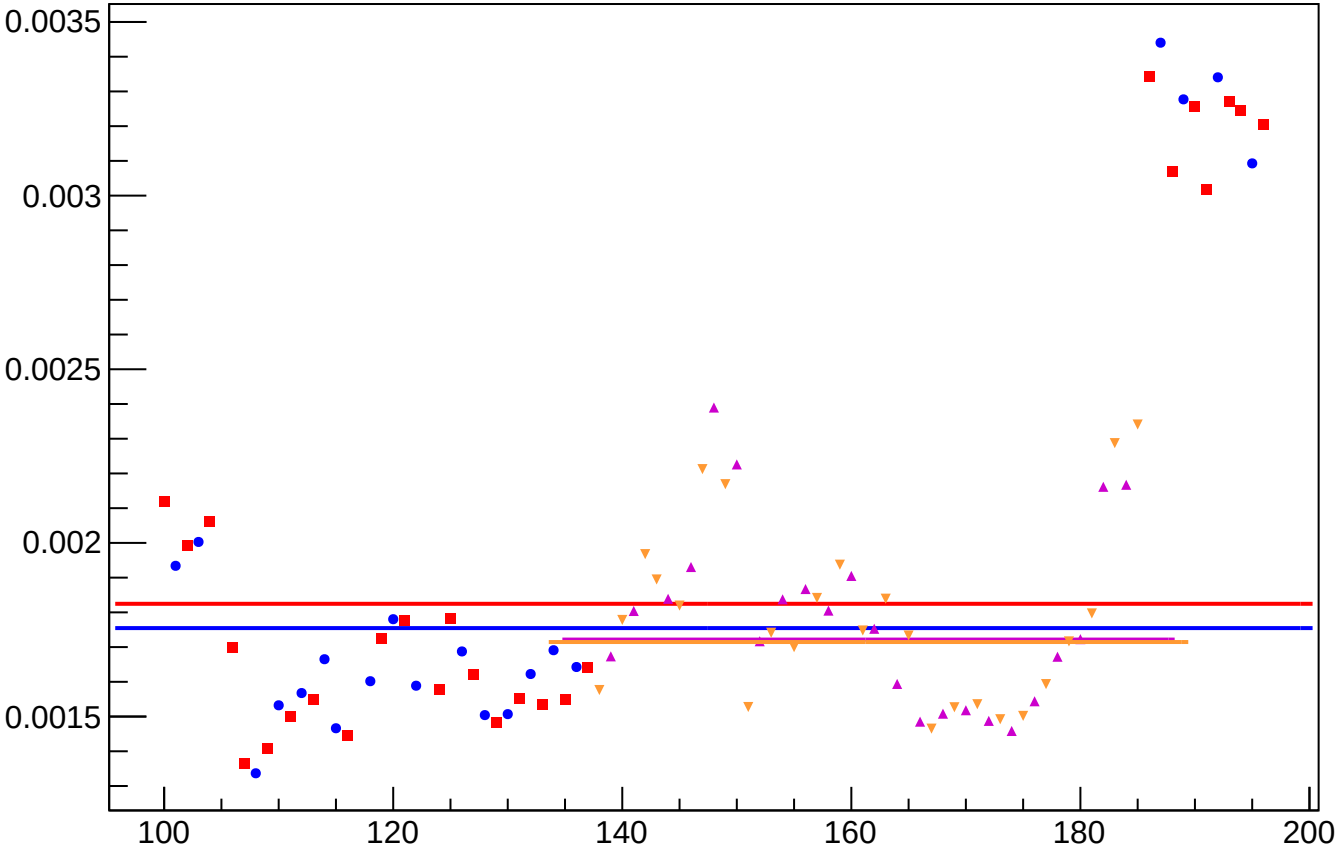
Right: -4.406+/-0.000 $\chi^2$/NDF: 717729179692.8/45

In: -3.977+/-0.000 $\chi^2$/NDF:1518985912787.7/42

Out: -3.982+/-0.000 $\chi^2$/NDF:1719871678077.0/50

All: -3.980+/-0.000 $\chi^2$/NDF: 3238983035250

# yield_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1287188.8/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:562338.1/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 2066931.0/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:581878.6/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 1144519.8/47

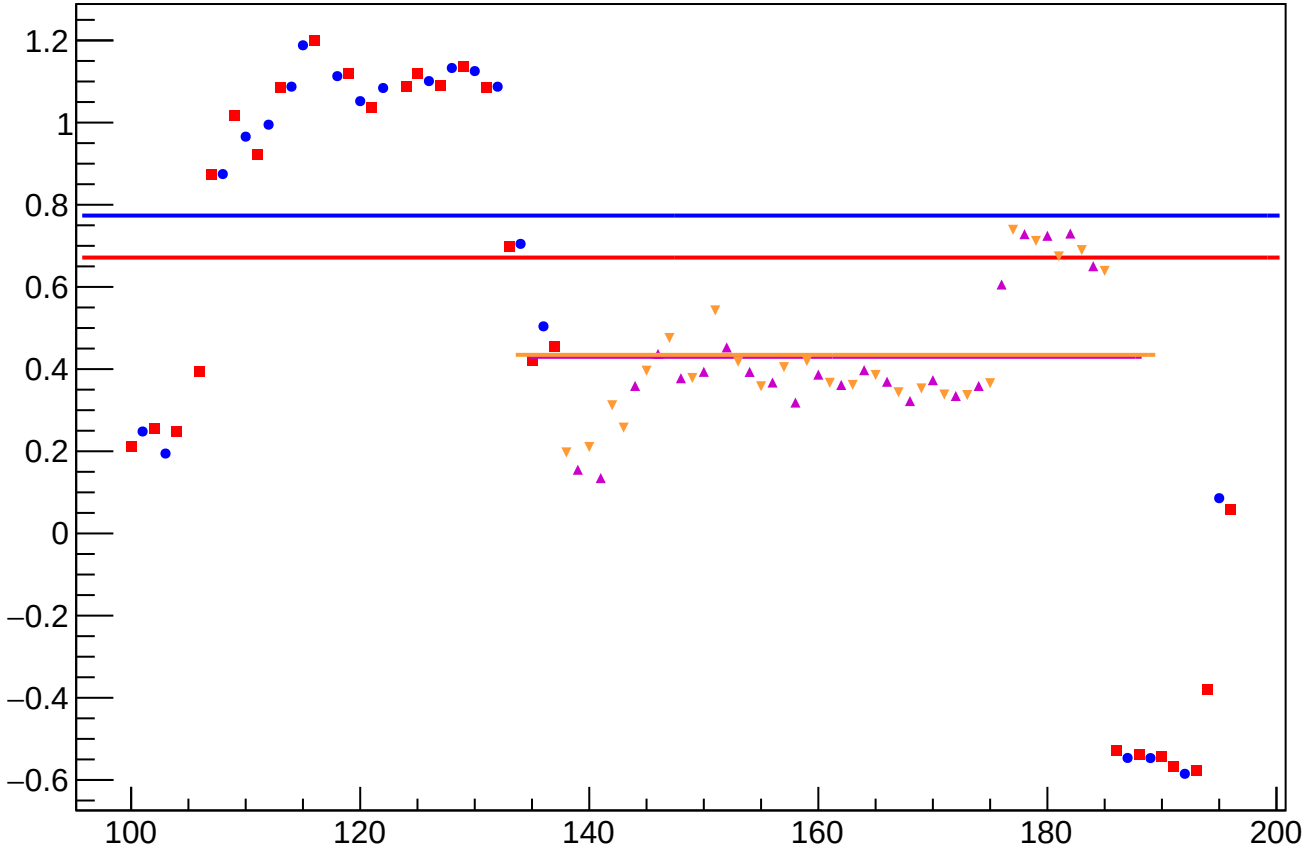
Right: 0.002+/-0.000 $\chi^2$/NDF: 3368837.4/45

In: 0.002+/-0.000 $\chi^2$/NDF:1873283.0/42

Out: 0.002+/-0.000 $\chi^2$/NDF:2680473.2/50

All: 0.002+/-0.000 $\chi^2$/NDF: 4557077.0/93

# yield_bpm2i02X_mean vs Slug, Sign Corrected




Right In: 0.774+/-0.000 $\chi^2$/NDF: 49692863310.6/19

Left Out: 0.435+/-0.000 $\chi^2$/NDF:8515333254.7/24

Right Out: 0.671+/-0.000 $\chi^2$/NDF: 76352387350.9/25

Left In: 0.430+/-0.000 $\chi^2$/NDF:9041195997.1/22

Left: 0.432+/-0.000 $\chi^2$/NDF: 17560906918.4/47

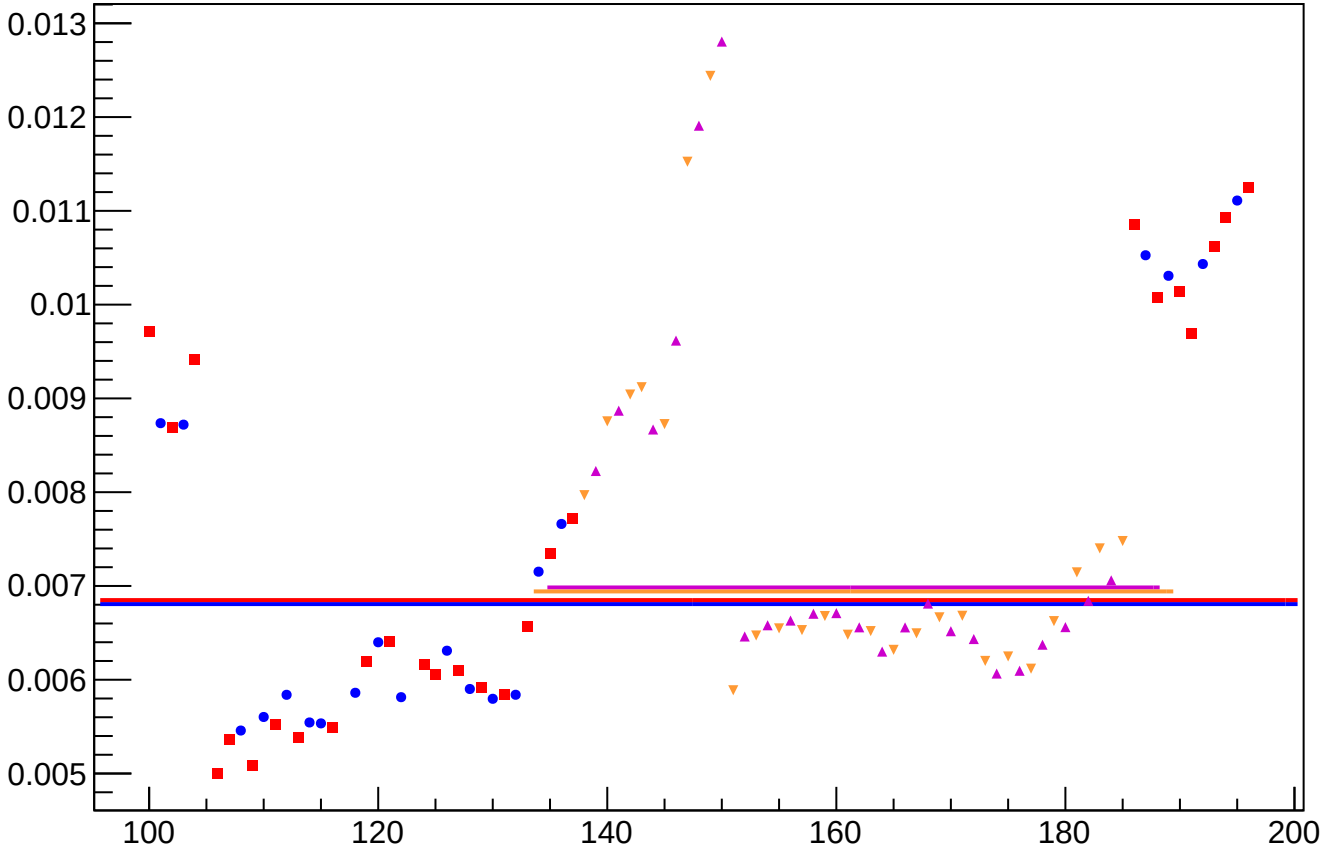
Right: 0.718+/-0.000 $\chi^2$/NDF: 127168589461.5/45

In: 0.552+/-0.000 $\chi^2$/NDF:73882035142.6/42

Out: 0.524+/-0.000 $\chi^2$/NDF:93072356929.2/50

All: 0.537+/-0.000 $\chi^2$/NDF: 167176913642.8

# yield_bpm2i02X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 1083692.2/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1090916.4/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 1777492.4/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:1136529.0/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 2228107.8/47

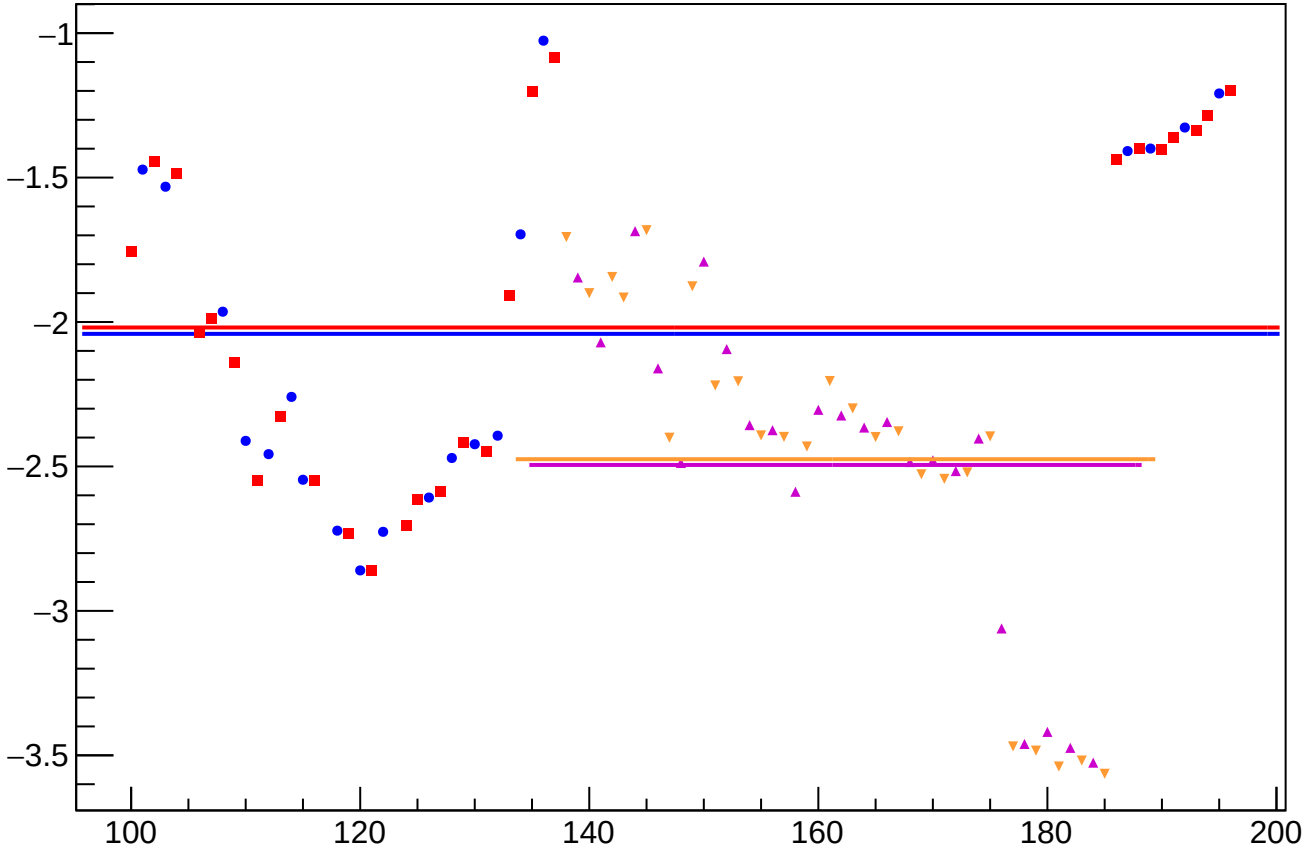
Right: 0.007+/-0.000 $\chi^2$/NDF: 2861574.1/45

In: 0.007+/-0.000 $\chi^2$/NDF:2228260.1/42

Out: 0.007+/-0.000 $\chi^2$/NDF:2870912.9/50

All: 0.007+/-0.000 $\chi^2$/NDF: 5099293.5/93

# yield_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: -2.041+/-0.000 $\chi^2$/NDF: 82741040036.8/19

Left Out: -2.475+/-0.000 $\chi^2$/NDF:122955897541.5/24

Right Out: -2.019+/-0.000 $\chi^2$/NDF: 85687942729.9/25

Left In: -2.495+/-0.000 $\chi^2$/NDF:96774638297.6/22

Left: -2.485+/-0.000 $\chi^2$/NDF: 219817663018.7/47

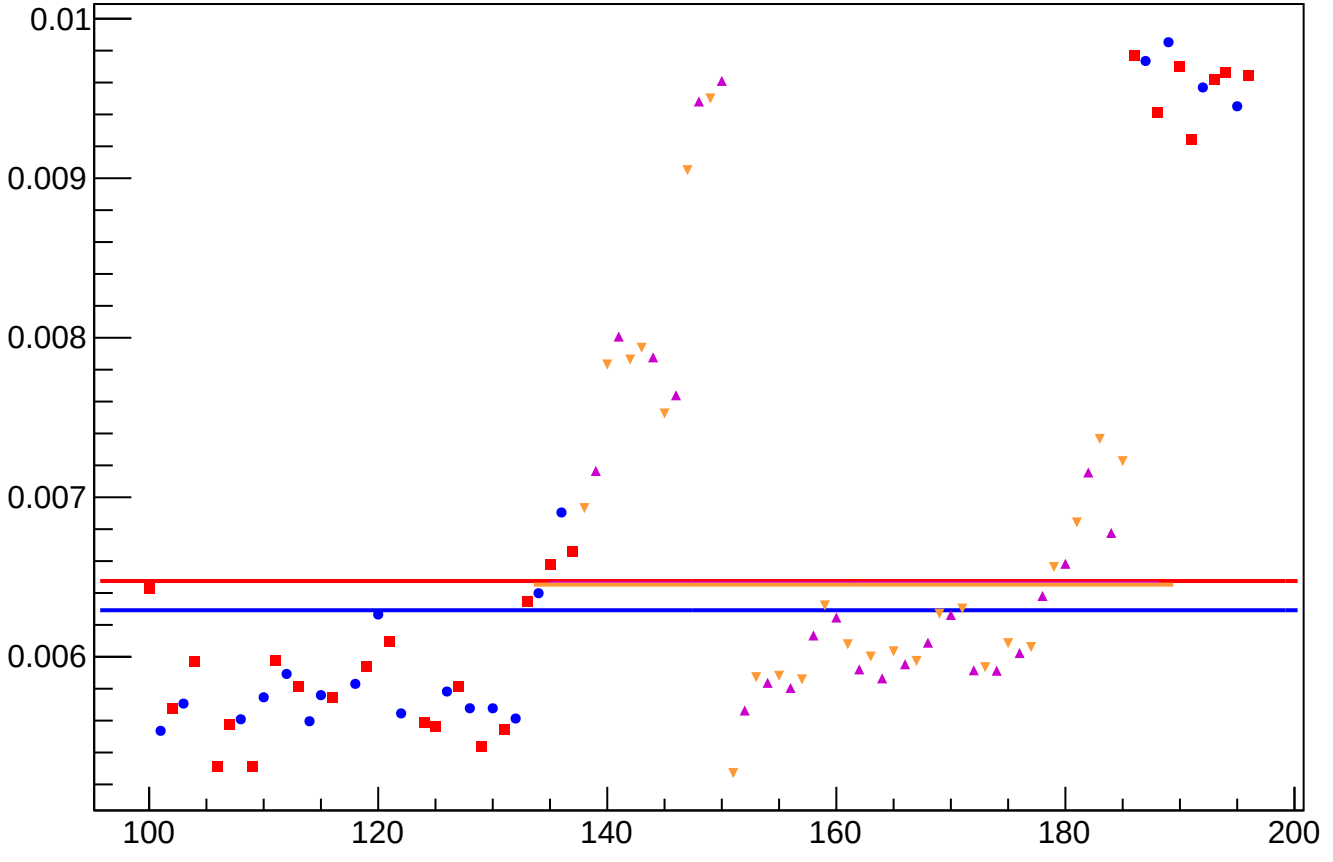
Right: -2.029+/-0.000 $\chi^2$/NDF: 168490279785.2/45

In: -2.333+/-0.000 $\chi^2$/NDF:210976512771.5/42

Out: -2.305+/-0.000 $\chi^2$/NDF:243880470954.3/50

All: -2.319+/-0.000 $\chi^2$/NDF: 455135703465.7

# yield_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 743930.7/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:713238.0/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 1196388.1/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:720640.7/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 1433914.6/47

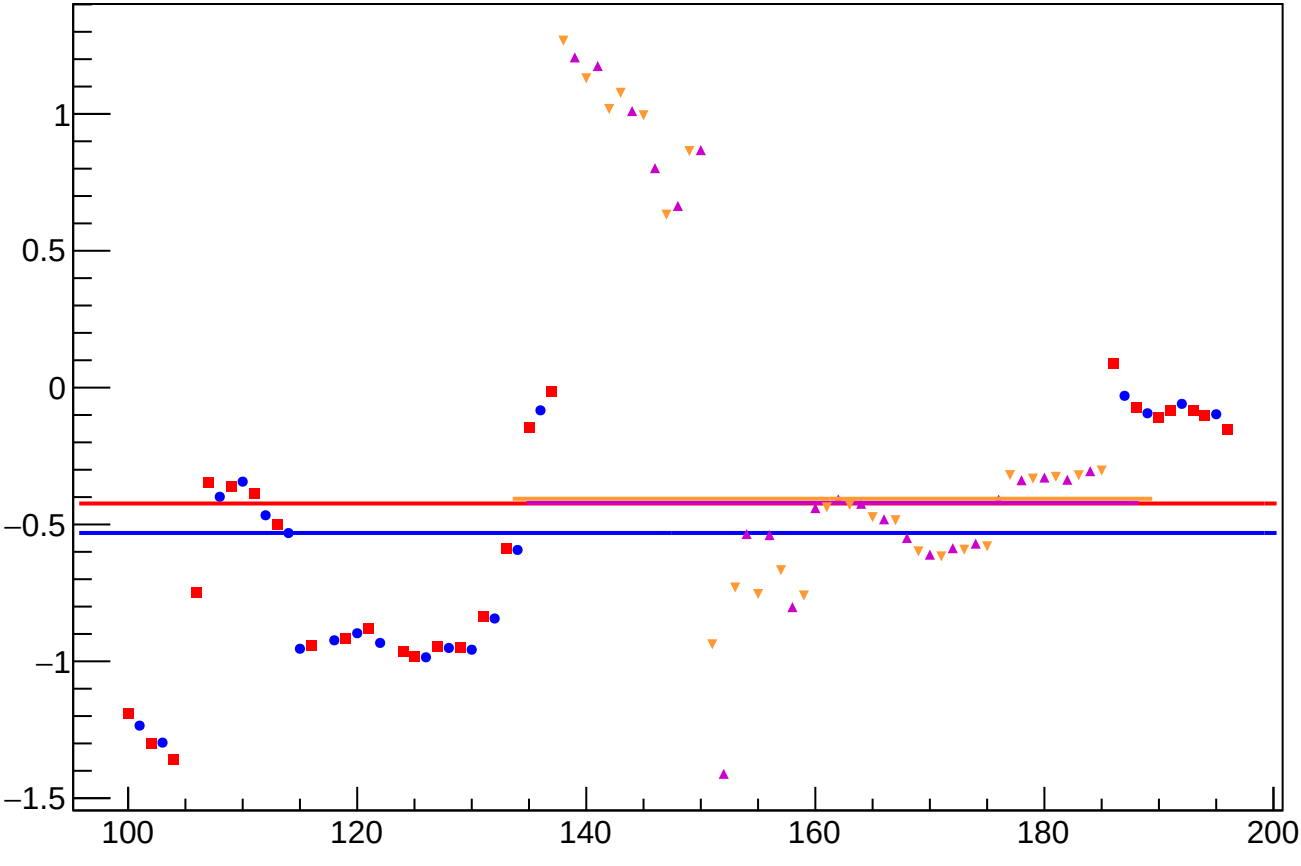
Right: 0.006+/-0.000 $\chi^2$/NDF: 1948803.9/45

In: 0.006+/-0.000 $\chi^2$/NDF:1473360.8/42

Out: 0.006+/-0.000 $\chi^2$/NDF:1909800.4/50

All: 0.006+/-0.000 $\chi^2$/NDF: 3385644.8/93

# yield_bpm0i01X_mean vs Slug, Sign Corrected




Right In: -0.531+/-0.000 $\chi^2$/NDF: 20598556558.0/19

Left Out: -0.406+/-0.000 $\chi^2$/NDF:81633647828.2/24

Right Out: -0.423+/-0.000 $\chi^2$/NDF: 25796719000.1/25

Left In: -0.421+/-0.000 $\chi^2$/NDF:90241717621.7/22

Left: -0.413+/-0.000 $\chi^2$/NDF: 171915637988.1/47

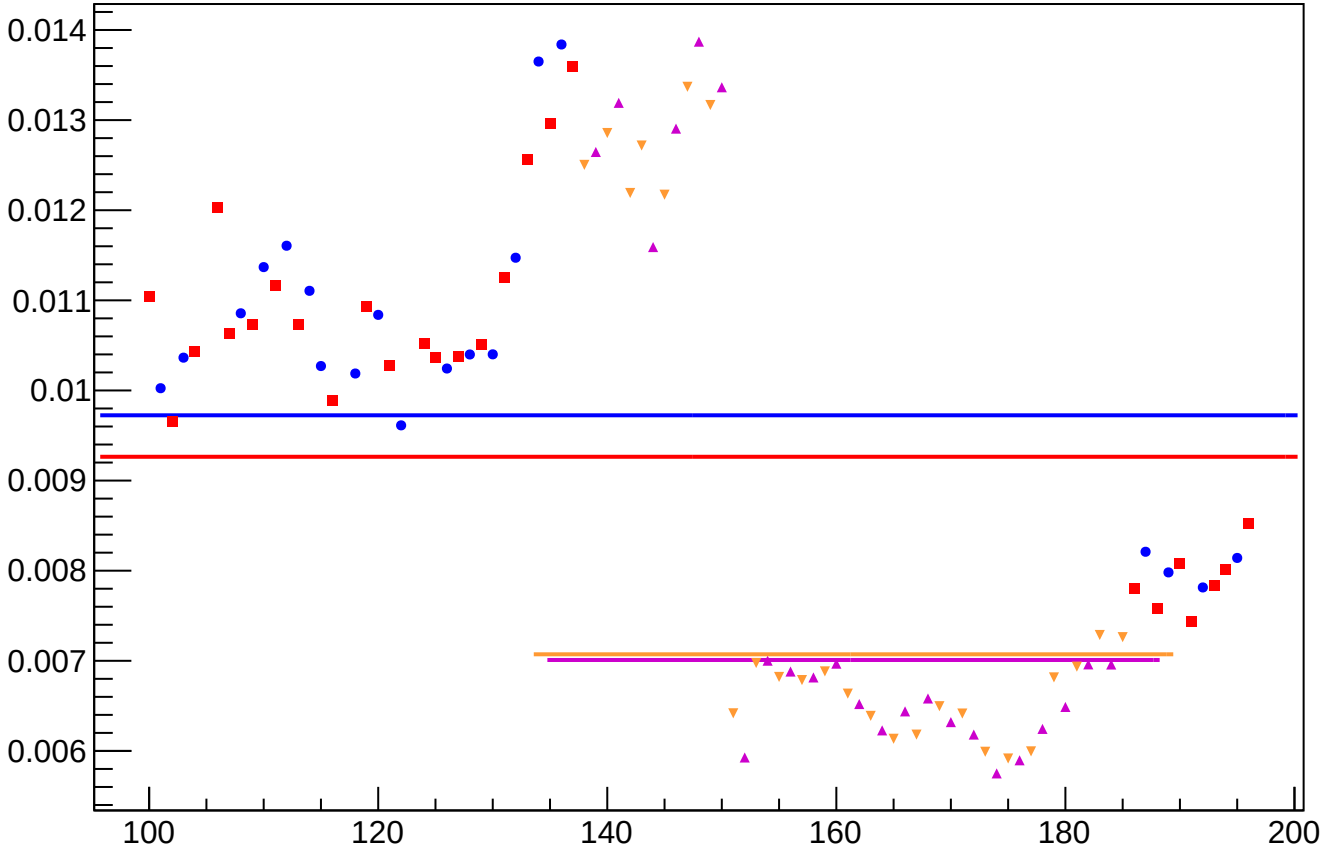
Right: -0.469+/-0.000 $\chi^2$/NDF: 47050376983.3/45

In: -0.446+/-0.000 $\chi^2$/NDF:111764504789.4/42

Out: -0.411+/-0.000 $\chi^2$/NDF:107459425569.3/50

All: -0.427+/-0.000 $\chi^2$/NDF: 219509766434.9

# yield_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 555128.9/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:2384159.5/24

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 662701.2/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:2456348.6/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 4841897.1/47

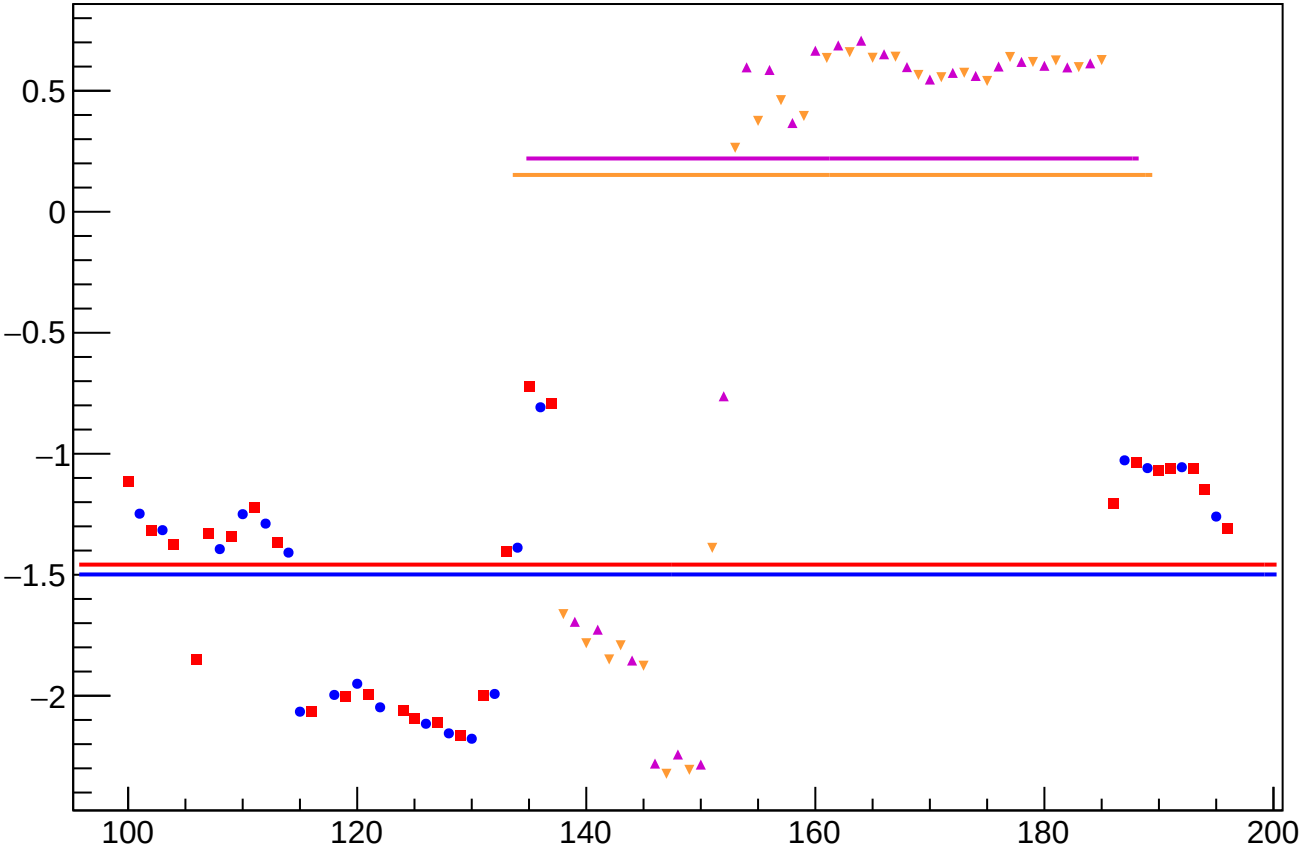
Right: 0.009+/-0.000 $\chi^2$/NDF: 1241777.4/45

In: 0.008+/-0.000 $\chi^2$/NDF:4141520.2/42

Out: 0.008+/-0.000 $\chi^2$/NDF:3972158.8/50

All: 0.008+/-0.000 $\chi^2$/NDF: 8114723.0/93

# yield_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: -1.499+/-0.000 $\chi^2$/NDF: 179764885794.3/19

Left Out: 0.152+/-0.000 $\chi^2$/NDF:2398778835341.2/24

Right Out: -1.458+/-0.000 $\chi^2$/NDF: 170863630410.4/25

Left In: 0.220+/-0.000 $\chi^2$/NDF:2121977245985.6/22

Left: 0.185+/-0.000 $\chi^2$/NDF: 4527353258188.4/47

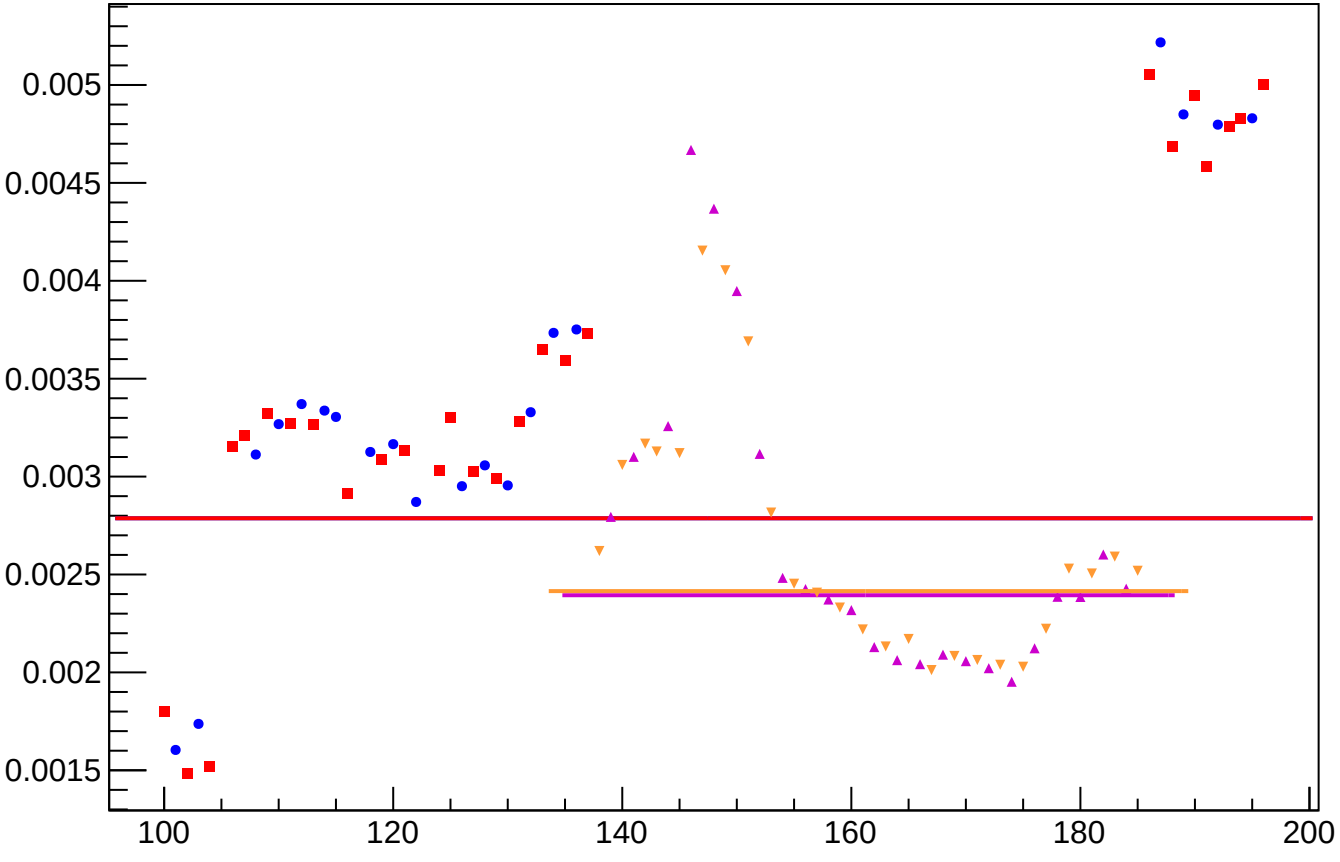
Right: -1.477+/-0.000 $\chi^2$/NDF: 351548942616.6/45

In: -0.245+/-0.000 $\chi^2$/NDF:4529979082889.2/42

Out: -0.317+/-0.000 $\chi^2$/NDF:4780491245377.9/50

All: -0.282+/-0.000 $\chi^2$/NDF: 9320818445619

# yield_bpm0i01Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 2165602.7/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1220406.4/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3388861.4/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:1409595.4/22

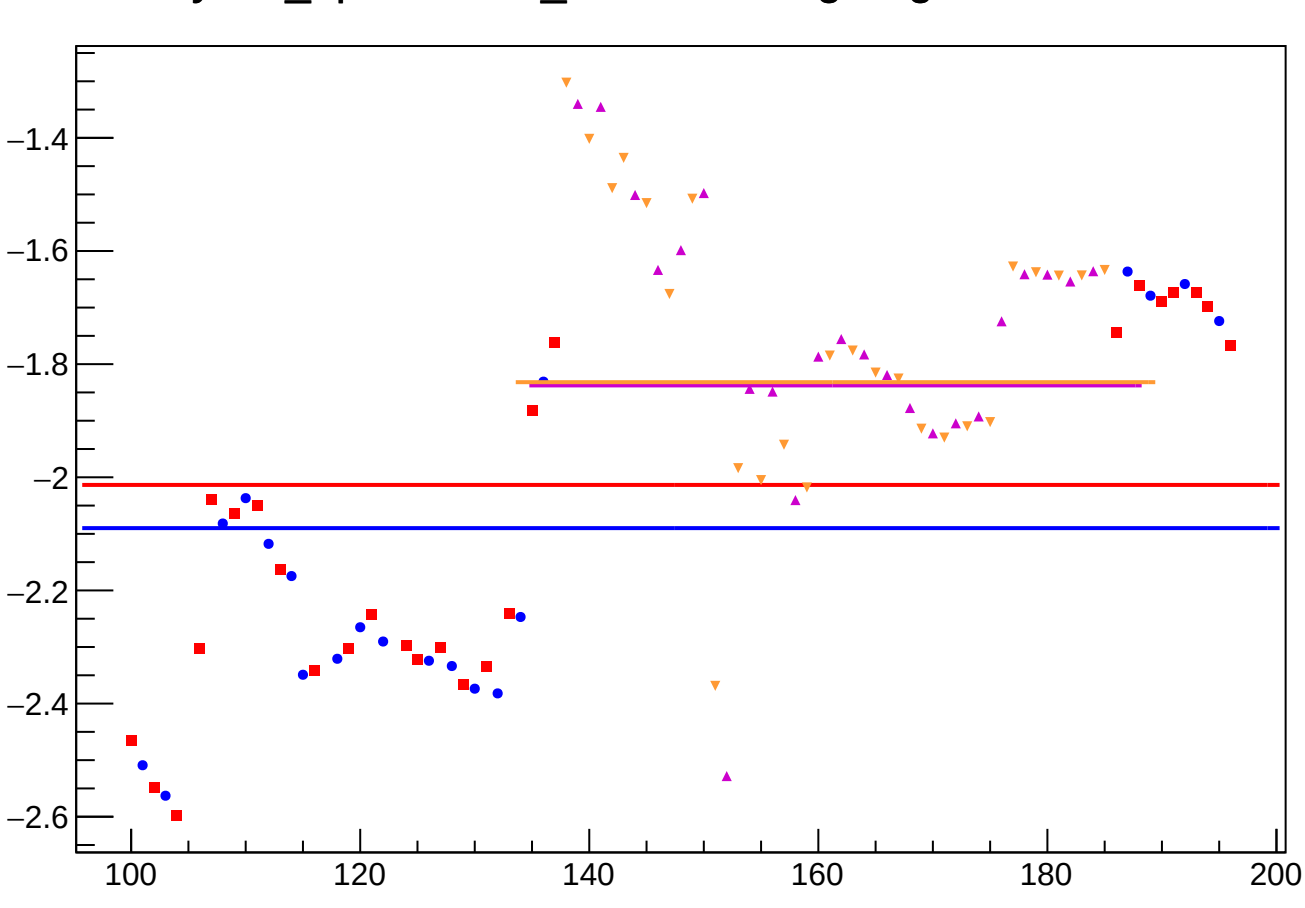
Left: 0.002+/-0.000 $\chi^2$/NDF: 2631272.1/47

Right: 0.003+/-0.000 $\chi^2$/NDF: 5554464.1/45

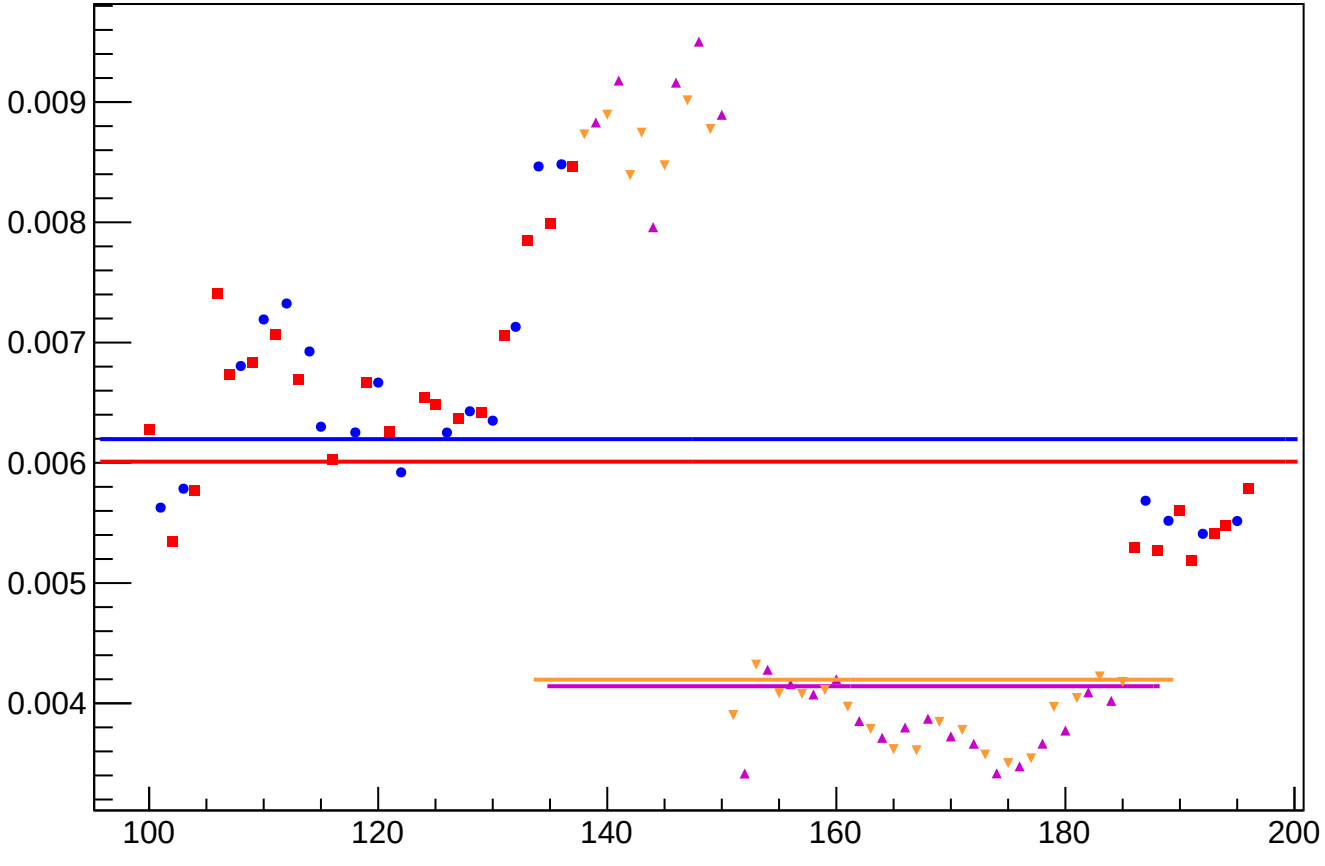
In: 0.003+/-0.000 $\chi^2$/NDF:3808121.9/42

Out: 0.003+/-0.000 $\chi^2$/NDF:4845277.1/50

All: 0.003+/-0.000 $\chi^2$/NDF: 8655534.0/93


yield_bpm0i01aX_mean vs Slug, Sign Corrected
−1.4
−1.6
−1.8
−2
−2.2
−2.4
−2.6
100
120
140
160
180
200
Right In: -2.090+/-0.000 χ²/NDF: 26880268567.6/19
Left Out: -1.832+/-0.000 χ²/NDF:38365576589.1/24
Right Out: -2.013+/-0.000 χ²/NDF: 34632827433.3/25
Left In: -1.838+/-0.000 χ²/NDF:53437434367.2/22
Left: -1.835+/-0.000 χ²/NDF: 91818701563.9/47
Right: -2.047+/-0.000 χ²/NDF: 62313522622.7/45
In: -1.889+/-0.000 χ²/NDF:92619359890.3/42
Out: -1.876+/-0.000 χ²/NDF:80851864743.0/50
All: -1.883+/-0.000 χ²/NDF: 173579600355.1

# yield_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 348971.0/19

Left Out: 0.004+/-0.000 $\chi^2$/NDF:3091489.2/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 375473.3/25

Left In: 0.004+/-0.000 $\chi^2$/NDF:3193924.3/22

Left: 0.004+/-0.000 $\chi^2$/NDF: 6288278.1/47

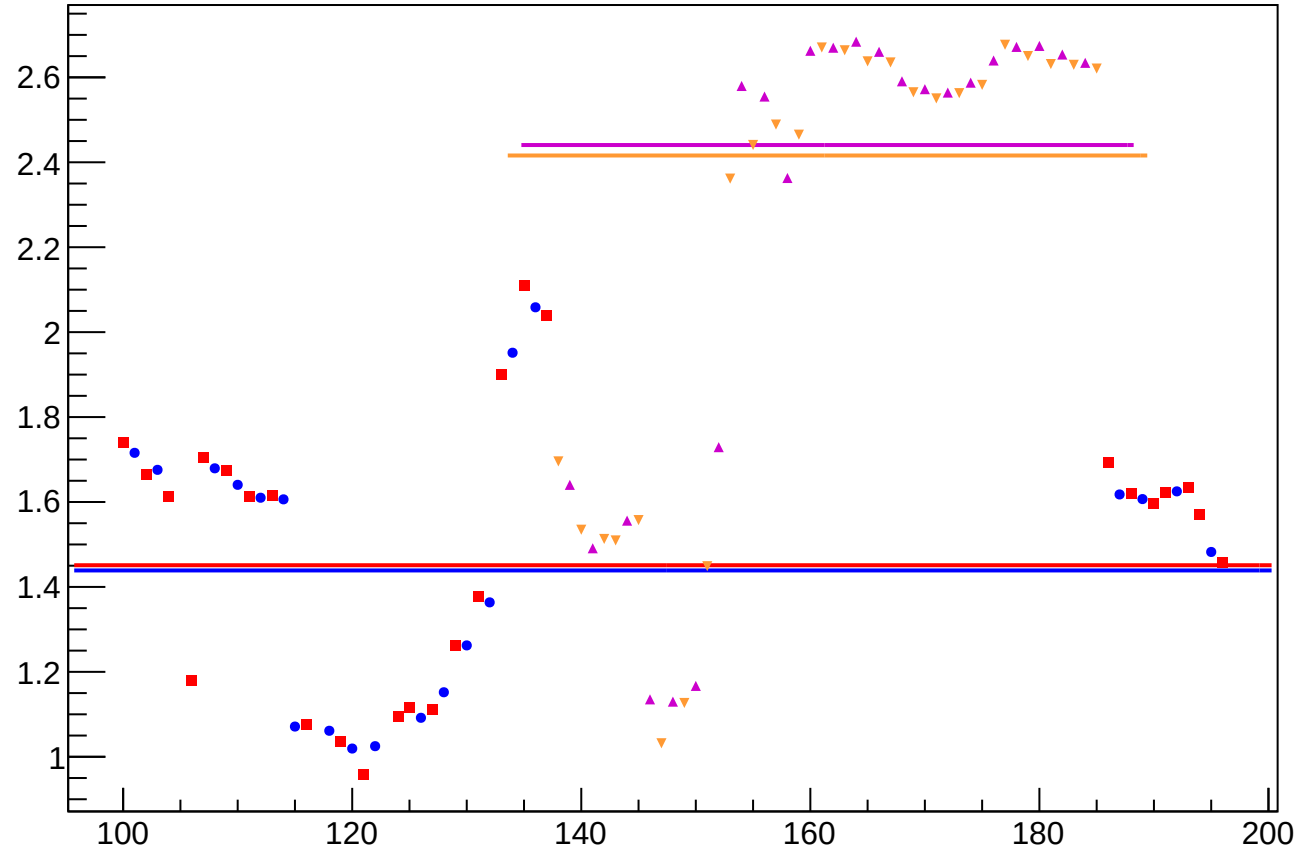
Right: 0.006+/-0.000 $\chi^2$/NDF: 734068.1/45

In: 0.005+/-0.000 $\chi^2$/NDF:5175389.2/42

Out: 0.005+/-0.000 $\chi^2$/NDF:5031913.0/50

All: 0.005+/-0.000 $\chi^2$/NDF: 10214208.7/93

# yield_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 1.439+/-0.000 $\chi^2$/NDF: 191269139777.5/19

Left Out: 2.416+/-0.000 $\chi^2$/NDF:242949391498.0/24

Right Out: 1.451+/-0.000 $\chi^2$/NDF: 186301858996.1/25

Left In: 2.441+/-0.000 $\chi^2$/NDF:231724954471.8/22

Left: 2.428+/-0.000 $\chi^2$/NDF: 475134633285.5/47

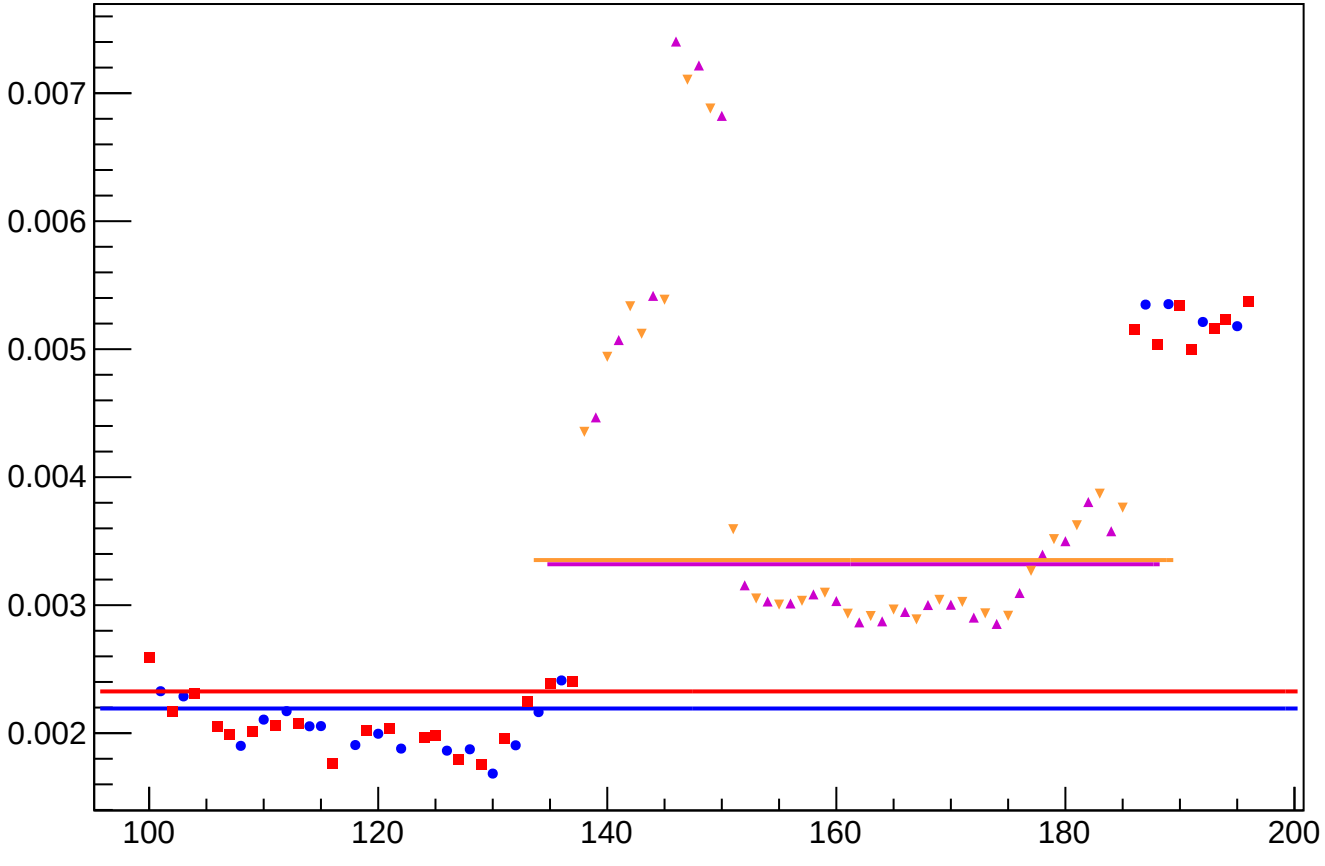
Right: 1.445+/-0.000 $\chi^2$/NDF: 377703148726.5/45

In: 1.903+/-0.000 $\chi^2$/NDF:1221467774174.9/42

Out: 1.898+/-0.000 $\chi^2$/NDF:1204535476122.6/50

All: 1.901+/-0.000 $\chi^2$/NDF: 2426034796904.

# yield_bpm0i01aY_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 1956095.1/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:1819921.4/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 3082855.6/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:2055631.9/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 3877180.3/47

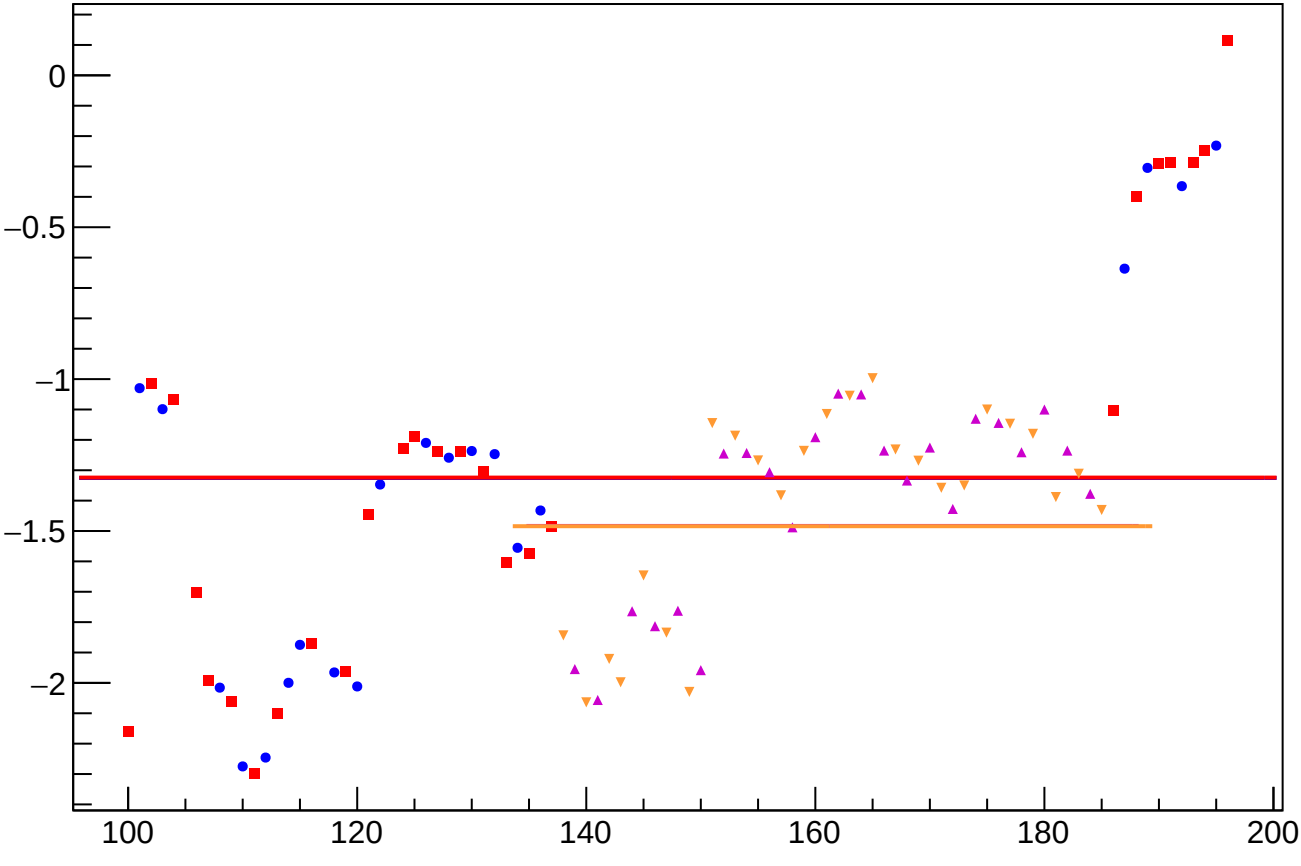
Right: 0.002+/-0.000 $\chi^2$/NDF: 5070198.3/45

In: 0.003+/-0.000 $\chi^2$/NDF:6032412.9/42

Out: 0.003+/-0.000 $\chi^2$/NDF:6656862.6/50

All: 0.003+/-0.000 $\chi^2$/NDF: 12714184.9/93

# yield_bpm0l01X_mean vs Slug, Sign Corrected




Right In: -1.326+/-0.000 $\chi^2$/NDF: 52222434110.0/19

Left Out: -1.484+/-0.000 $\chi^2$/NDF:48438764764.6/24

Right Out: -1.324+/-0.000 $\chi^2$/NDF: 90921627024.5/25

Left In: -1.483+/-0.000 $\chi^2$/NDF:40353431150.9/22

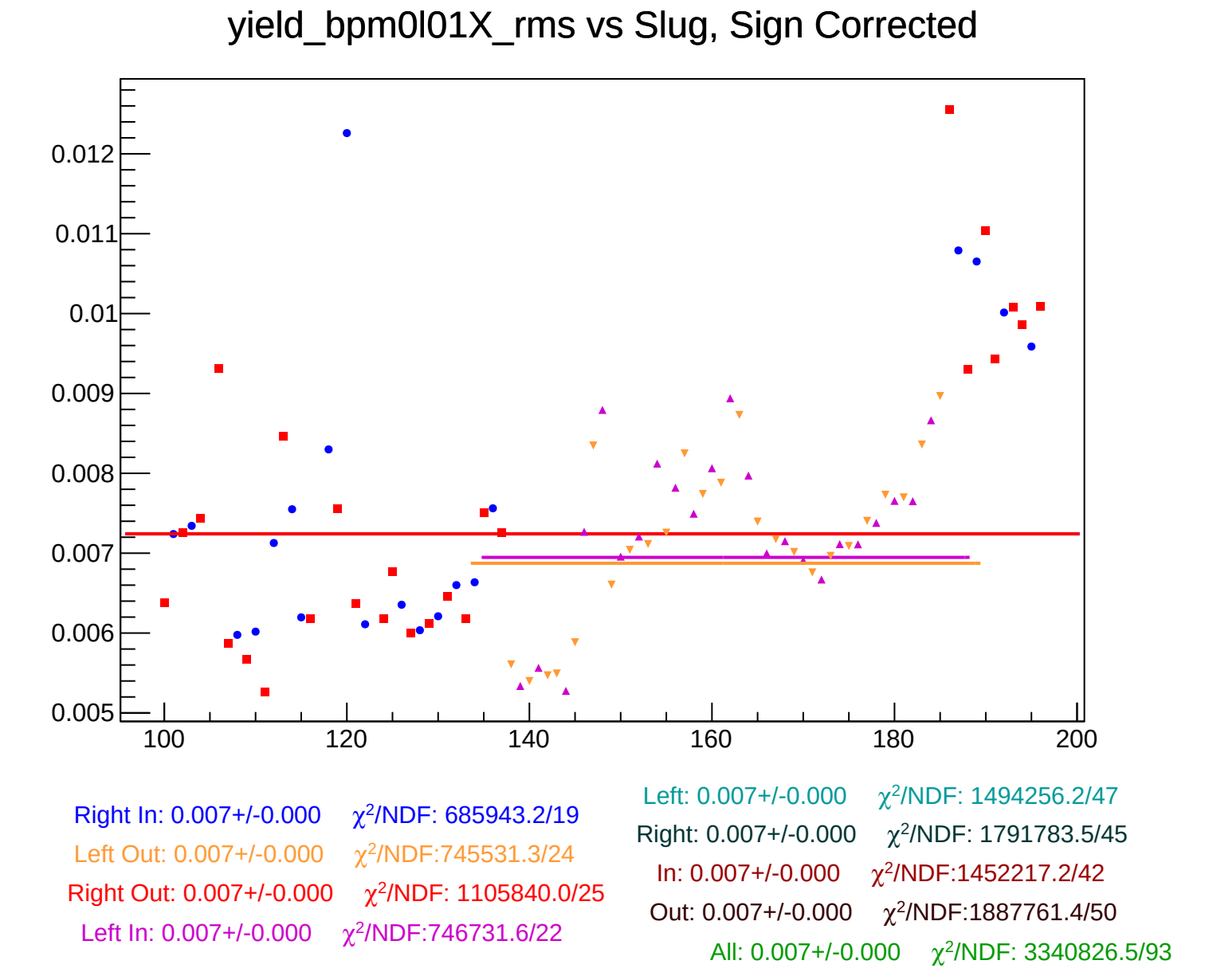
Left: -1.484+/-0.000 $\chi^2$/NDF: 88792333216.2/47

Right: -1.325+/-0.000 $\chi^2$/NDF: 143144222562.6/45

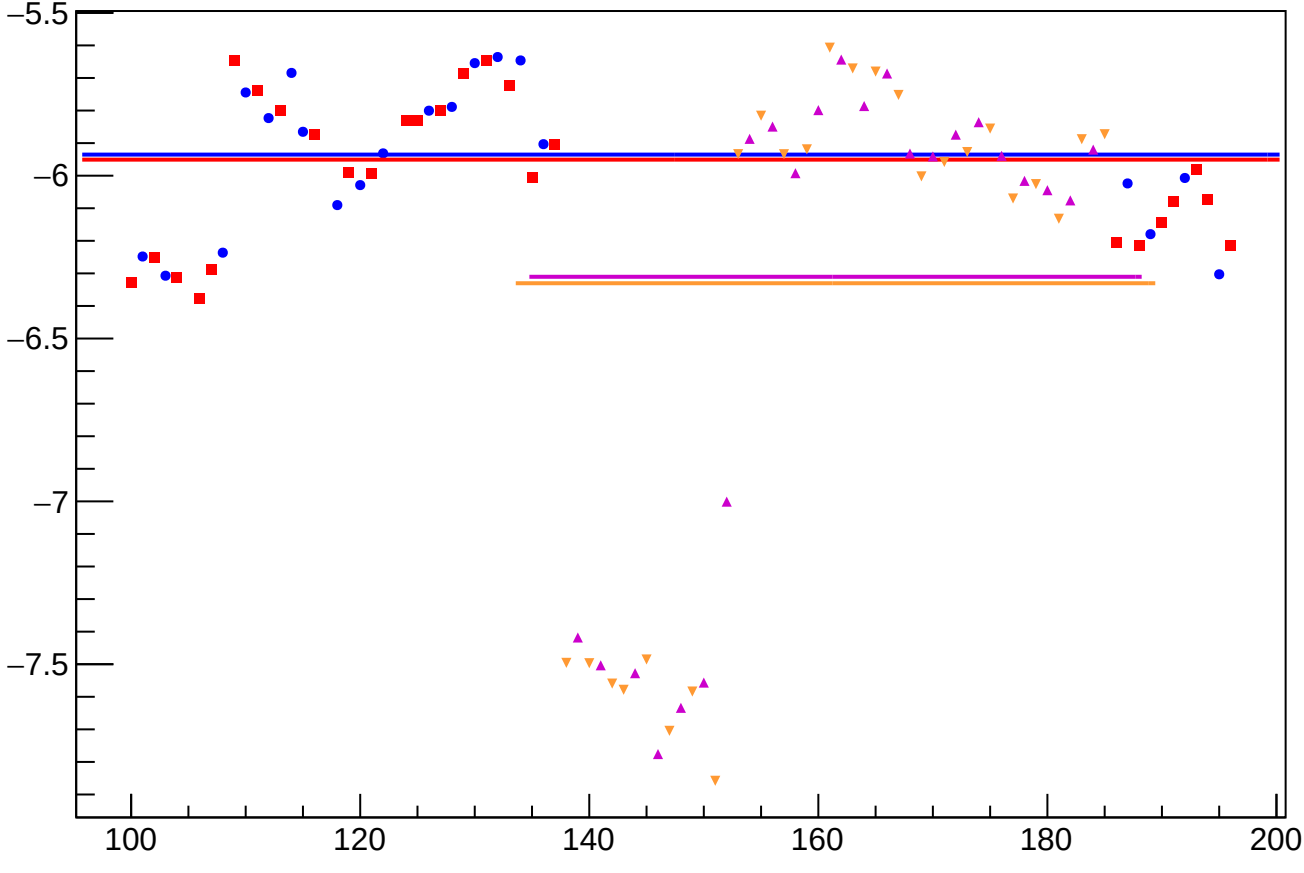
In: -1.433+/-0.000 $\chi^2$/NDF:95389508396.6/42

Out: -1.428+/-0.000 $\chi^2$/NDF:142781050635.9/50

All: -1.430+/-0.000 $\chi^2$/NDF: 238175822996.3


yield_bpm0l01X_rms vs Slug, Sign Corrected
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
100
120
140
160
180
200
Right In: 0.007+/-0.000 χ²/NDF: 685943.2/19
Left Out: 0.007+/-0.000 χ²/NDF:745531.3/24
Right Out: 0.007+/-0.000 χ²/NDF: 1105840.0/25
Left In: 0.007+/-0.000 χ²/NDF:746731.6/22
Left: 0.007+/-0.000 χ²/NDF: 1494256.2/47
Right: 0.007+/-0.000 χ²/NDF: 1791783.5/45
In: 0.007+/-0.000 χ²/NDF:1452217.2/42
Out: 0.007+/-0.000 χ²/NDF:1887761.4/50
All: 0.007+/-0.000 χ²/NDF: 3340826.5/93

# yield_bpm0l01Y_mean vs Slug, Sign Corrected




Right In: -5.935+/-0.000 $\chi^2$/NDF: 12704152869.8/19

Left Out: -6.330+/-0.000 $\chi^2$/NDF:110328634370.4/24

Right Out: -5.951+/-0.000 $\chi^2$/NDF: 13808186734.3/25

Left In: -6.310+/-0.000 $\chi^2$/NDF:91689184100.9/22

Left: -6.321+/-0.000 $\chi^2$/NDF: 202054497687.3/47

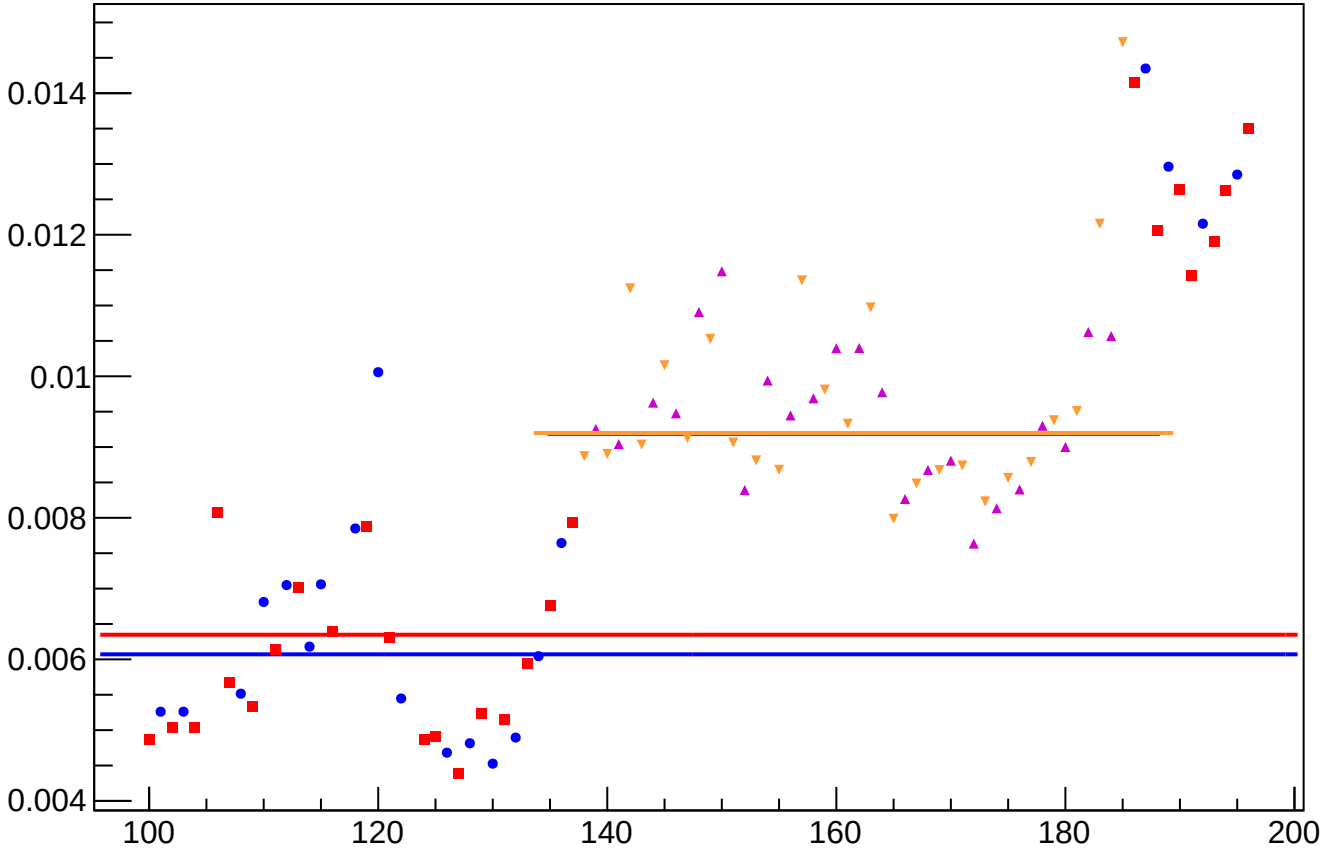
Right: -5.943+/-0.000 $\chi^2$/NDF: 26539223606.0/45

In: -6.108+/-0.000 $\chi^2$/NDF:118243859705.0/42

Out: -6.120+/-0.000 $\chi^2$/NDF:139381075342.5/50

All: -6.114+/-0.000 $\chi^2$/NDF: 257651499017.

# yield_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 1930409.8/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:367040.4/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 2727075.4/25

Left In: 0.009+/-0.000 $\chi^2$/NDF:319063.5/22

Left: 0.009+/-0.000 $\chi^2$/NDF: 686142.8/47

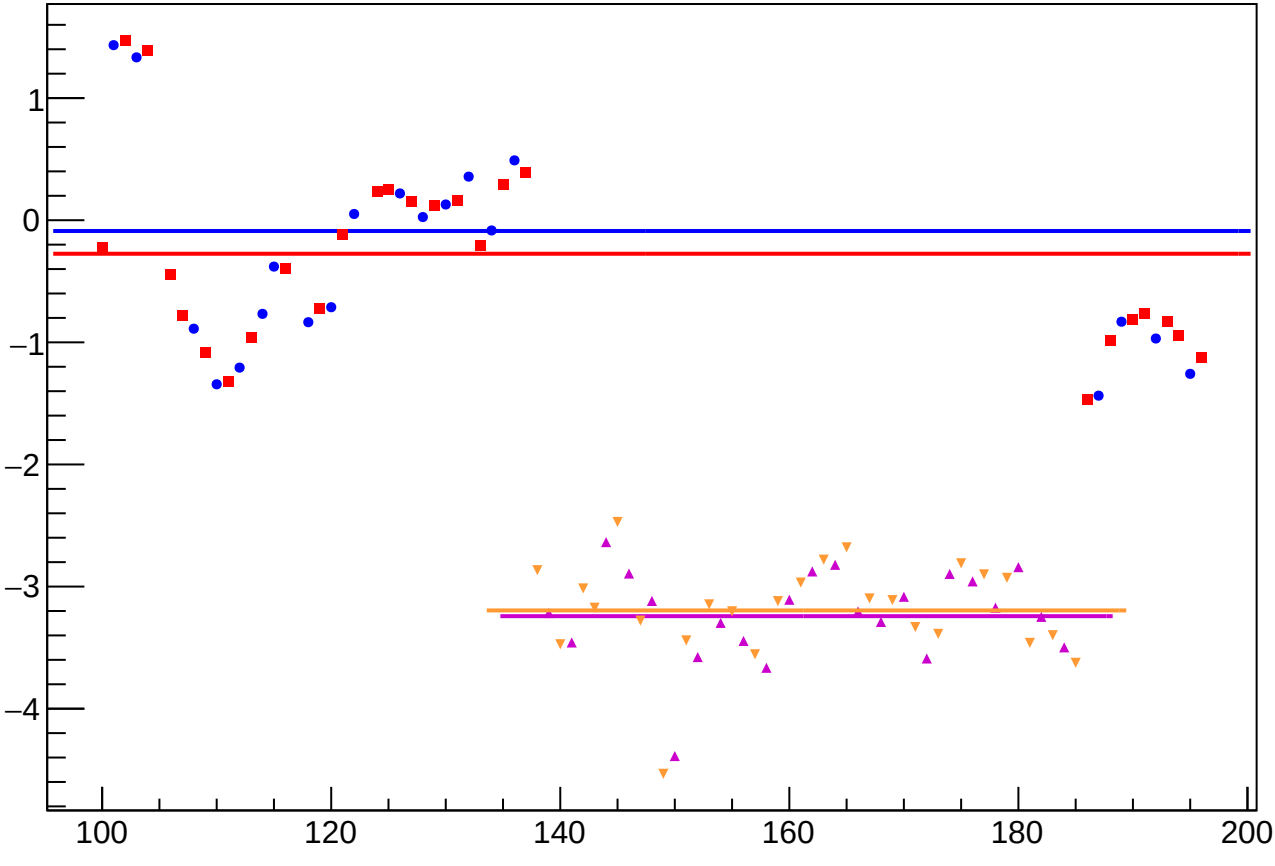
Right: 0.006+/-0.000 $\chi^2$/NDF: 4674716.6/45

In: 0.008+/-0.000 $\chi^2$/NDF:4156953.3/42

Out: 0.008+/-0.000 $\chi^2$/NDF:4814334.1/50

All: 0.008+/-0.000 $\chi^2$/NDF: 8976256.0/93

# yield_bpm0l02X_mean vs Slug, Sign Corrected




Right In: -0.088+/-0.000 $\chi^2$/NDF: 28200999820.1/19

Left Out: -3.195+/-0.000 $\chi^2$/NDF:9538006171.4/24

Right Out: -0.275+/-0.000 $\chi^2$/NDF: 32250025684.2/25

Left In: -3.242+/-0.000 $\chi^2$/NDF:7955956403.6/22

Left: -3.218+/-0.000 $\chi^2$/NDF: 17560435430.7/47

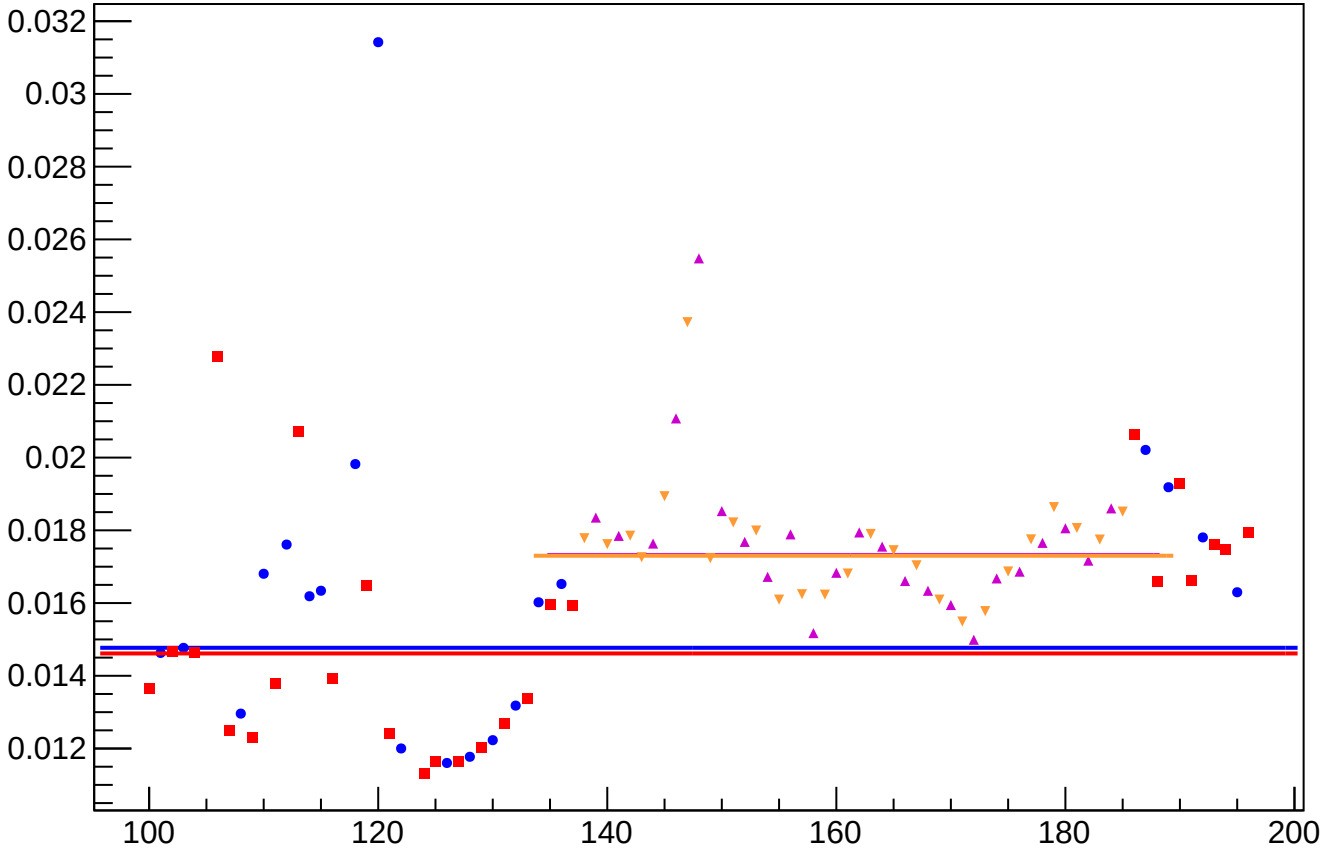
Right: -0.193+/-0.000 $\chi^2$/NDF: 61227645110.8/45

In: -1.964+/-0.000 $\chi^2$/NDF:271731333385.9/42

Out: -1.878+/-0.000 $\chi^2$/NDF:280643751315.3/50

All: -1.918+/-0.000 $\chi^2$/NDF: 552761384866.0

# yield_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 0.015+/-0.000 $\chi^2$/NDF: 642701.6/19

Left Out: 0.017+/-0.000 $\chi^2$/NDF:218030.0/24

Right Out: 0.015+/-0.000 $\chi^2$/NDF: 686253.2/25

Left In: 0.017+/-0.000 $\chi^2$/NDF:329879.6/22

Left: 0.017+/-0.000 $\chi^2$/NDF: 547937.7/47

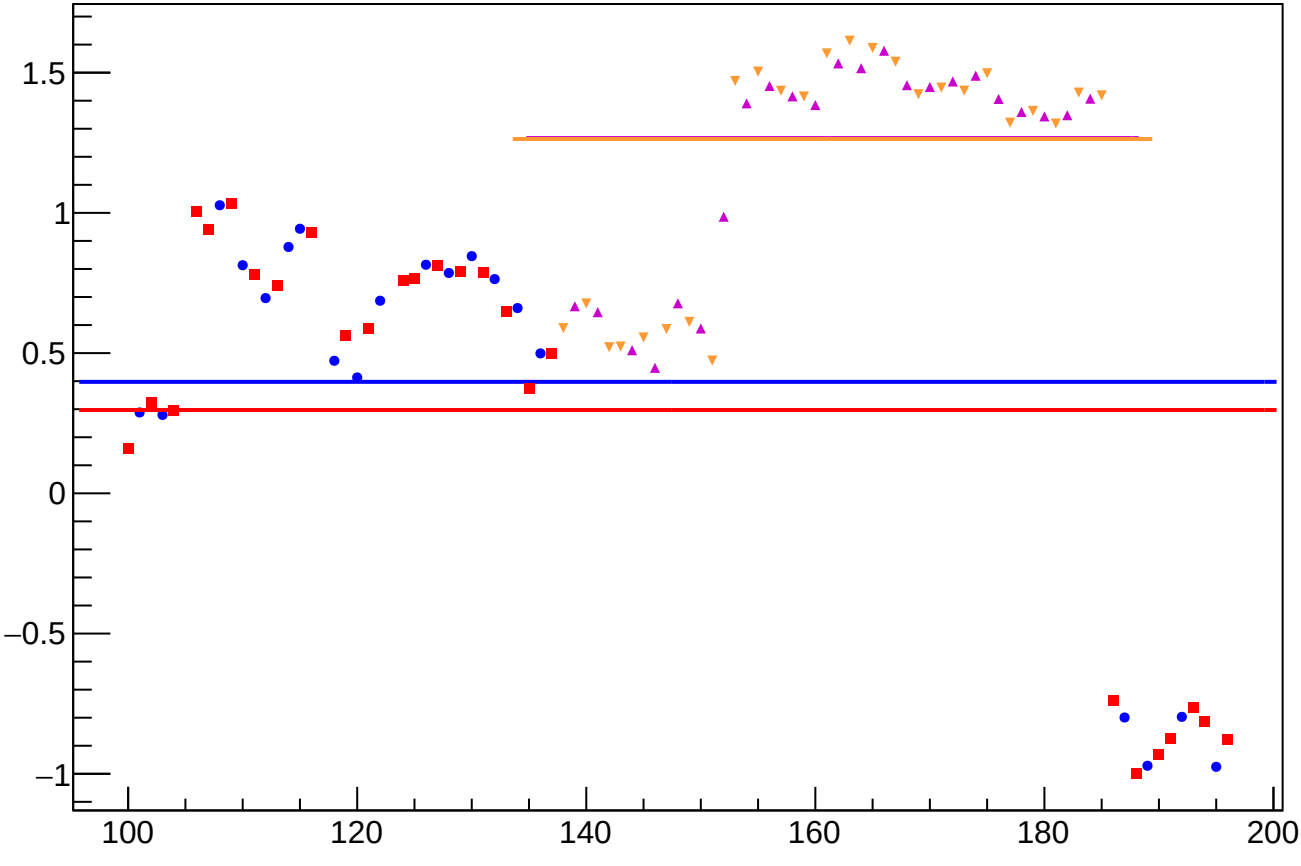
Right: 0.015+/-0.000 $\chi^2$/NDF: 1330039.0/45

In: 0.016+/-0.000 $\chi^2$/NDF:1281174.3/42

Out: 0.016+/-0.000 $\chi^2$/NDF:1308515.9/50

All: 0.016+/-0.000 $\chi^2$/NDF: 2593837.0/93

# yield_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: 0.398+/-0.000 $\chi^2$/NDF: 36150824650.7/19

Left Out: 1.263+/-0.000 $\chi^2$/NDF:45594559273.0/24

Right Out: 0.297+/-0.000 $\chi^2$/NDF: 56298397651.6/25

Left In: 1.267+/-0.000 $\chi^2$/NDF:37614918579.9/22

Left: 1.265+/-0.000 $\chi^2$/NDF: 83211392403.2/47

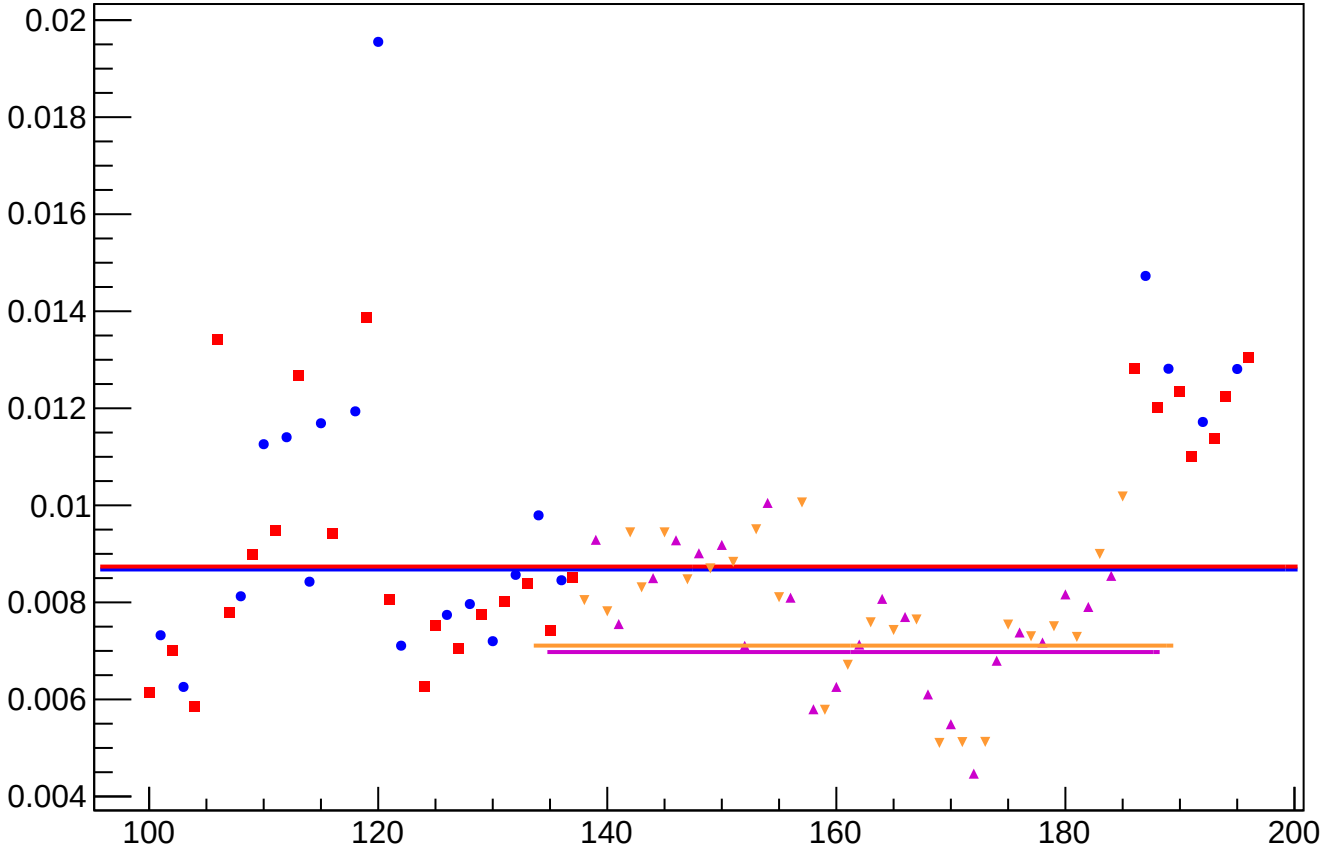
Right: 0.342+/-0.000 $\chi^2$/NDF: 93058550160.5/45

In: 1.051+/-0.000 $\chi^2$/NDF:136372787599.7/42

Out: 0.988+/-0.000 $\chi^2$/NDF:191454011813.9/50

All: 1.019+/-0.000 $\chi^2$/NDF: 328736087081.0

# yield_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 1133551.6/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1519295.8/24

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 1454106.6/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:1457031.8/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 2982253.4/47

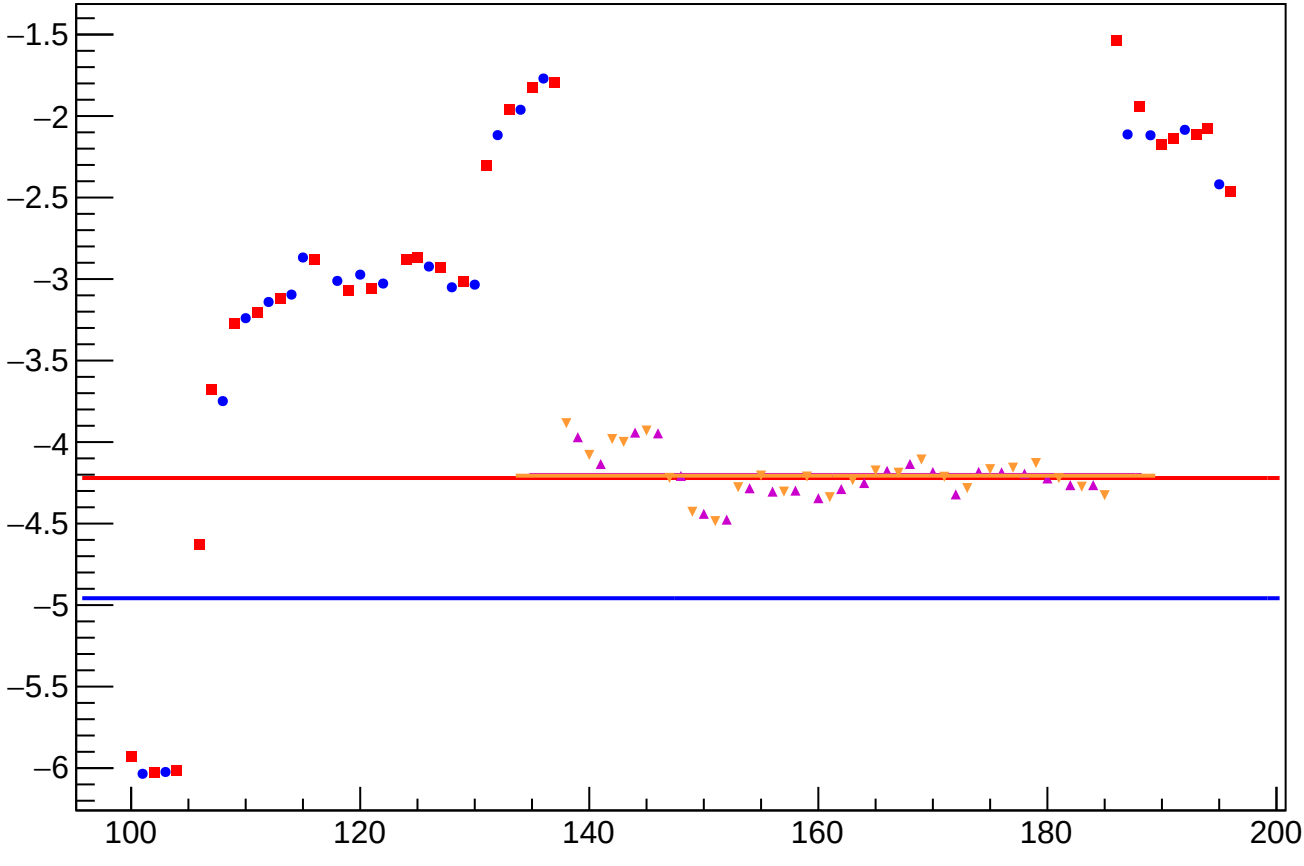
Right: 0.009+/-0.000 $\chi^2$/NDF: 2588095.2/45

In: 0.007+/-0.000 $\chi^2$/NDF:3070466.0/42

Out: 0.008+/-0.000 $\chi^2$/NDF:3482445.0/50

All: 0.007+/-0.000 $\chi^2$/NDF: 6566898.8/93

# yield_bpm0l03X_mean vs Slug, Sign Corrected




Right In: -4.958+/-0.000 $\chi^2$/NDF: 204673321612.8/19

Left Out: -4.206+/-0.000 $\chi^2$/NDF:61558336.8/24

Right Out: -4.220+/-0.000 $\chi^2$/NDF: 288909004402.9/25

Left In: -4.202+/-0.000 $\chi^2$/NDF:42747893.4/22

Left: -4.203+/-0.000 $\chi^2$/NDF: 104337107.5/47

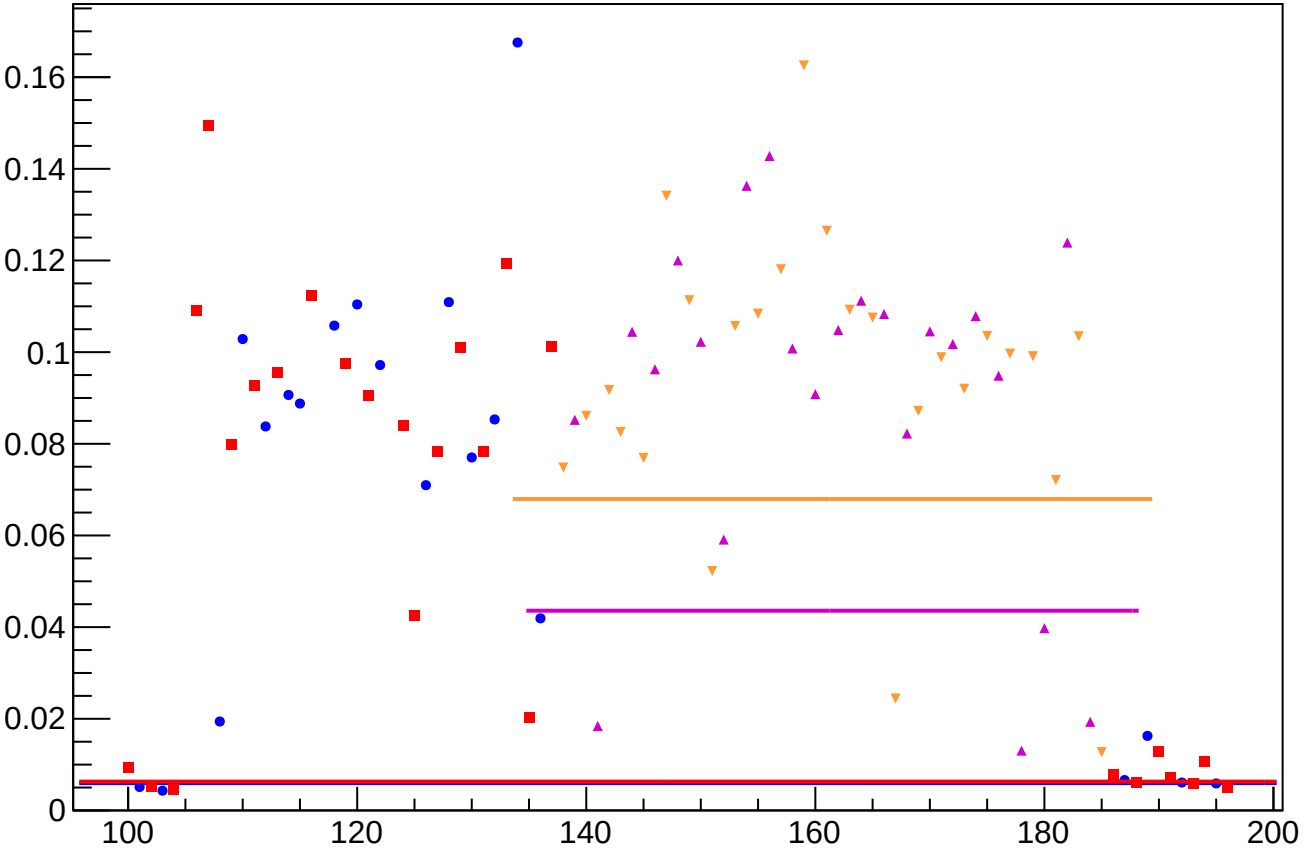
Right: -4.572+/-0.000 $\chi^2$/NDF: 513627871263.8/45

In: -4.916+/-0.000 $\chi^2$/NDF:206926875674.3/42

Out: -4.220+/-0.000 $\chi^2$/NDF:288971094064.5/50

All: -4.556+/-0.000 $\chi^2$/NDF: 514610419934.

# yield_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 8796945.4/19

Left Out: 0.068+/-0.000 $\chi^2$/NDF:7631751.0/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 8911364.5/25

Left In: 0.044+/-0.000 $\chi^2$/NDF:12761920.2/22

Left: 0.053+/-0.000 $\chi^2$/NDF: 22308835.8/47

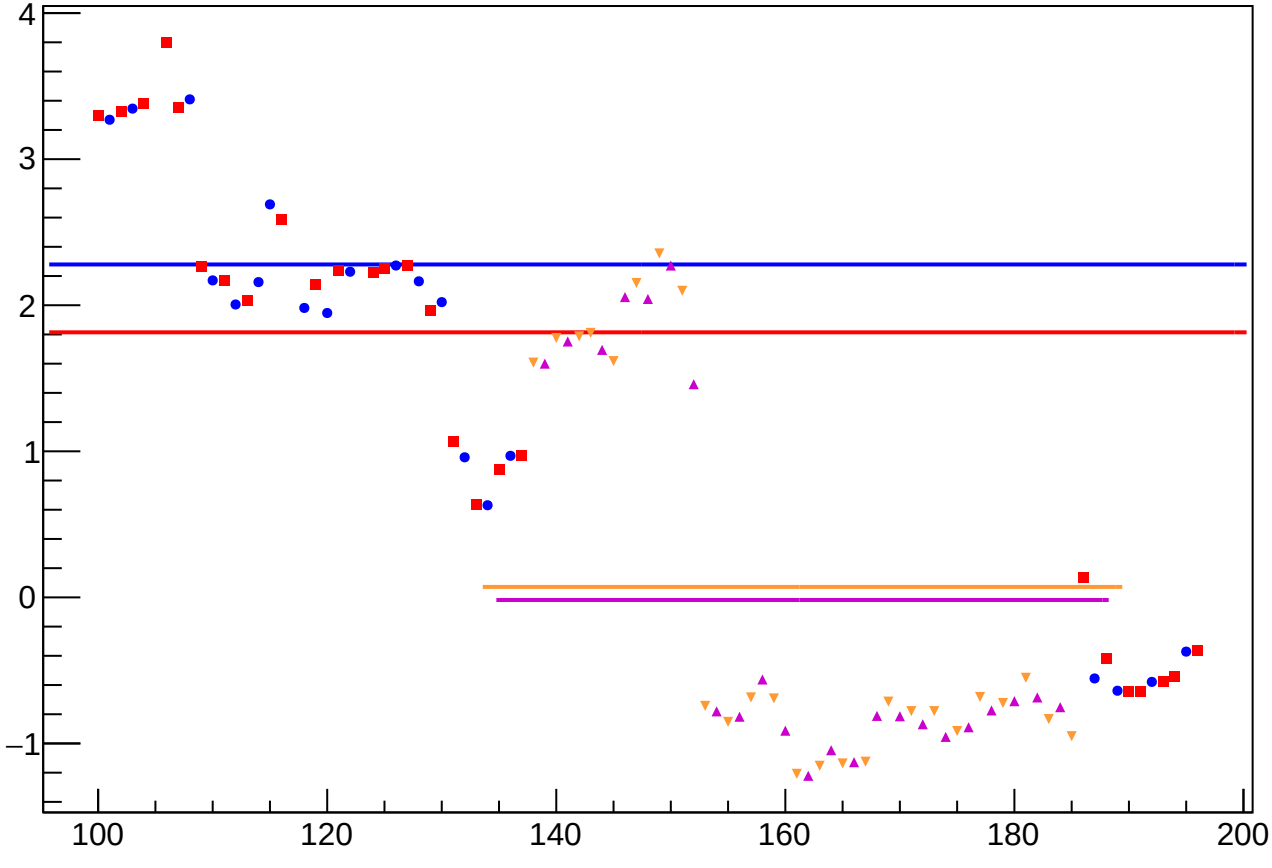
Right: 0.006+/-0.000 $\chi^2$/NDF: 17716091.0/45

In: 0.008+/-0.000 $\chi^2$/NDF:32502690.3/42

Out: 0.008+/-0.000 $\chi^2$/NDF:36104316.9/50

All: 0.008+/-0.000 $\chi^2$/NDF: 68614613.1/93

# yield_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: 2.279+/-0.000 $\chi^2$/NDF: 117431227471.6/19

Left Out: 0.072+/-0.000 $\chi^2$/NDF:3635027099.6/24

Right Out: 1.815+/-0.000 $\chi^2$/NDF: 165651454806.1/25

Left In: -0.018+/-0.000 $\chi^2$/NDF:3455714643.1/22

Left: 0.024+/-0.000 $\chi^2$/NDF: 7099580100.2/47

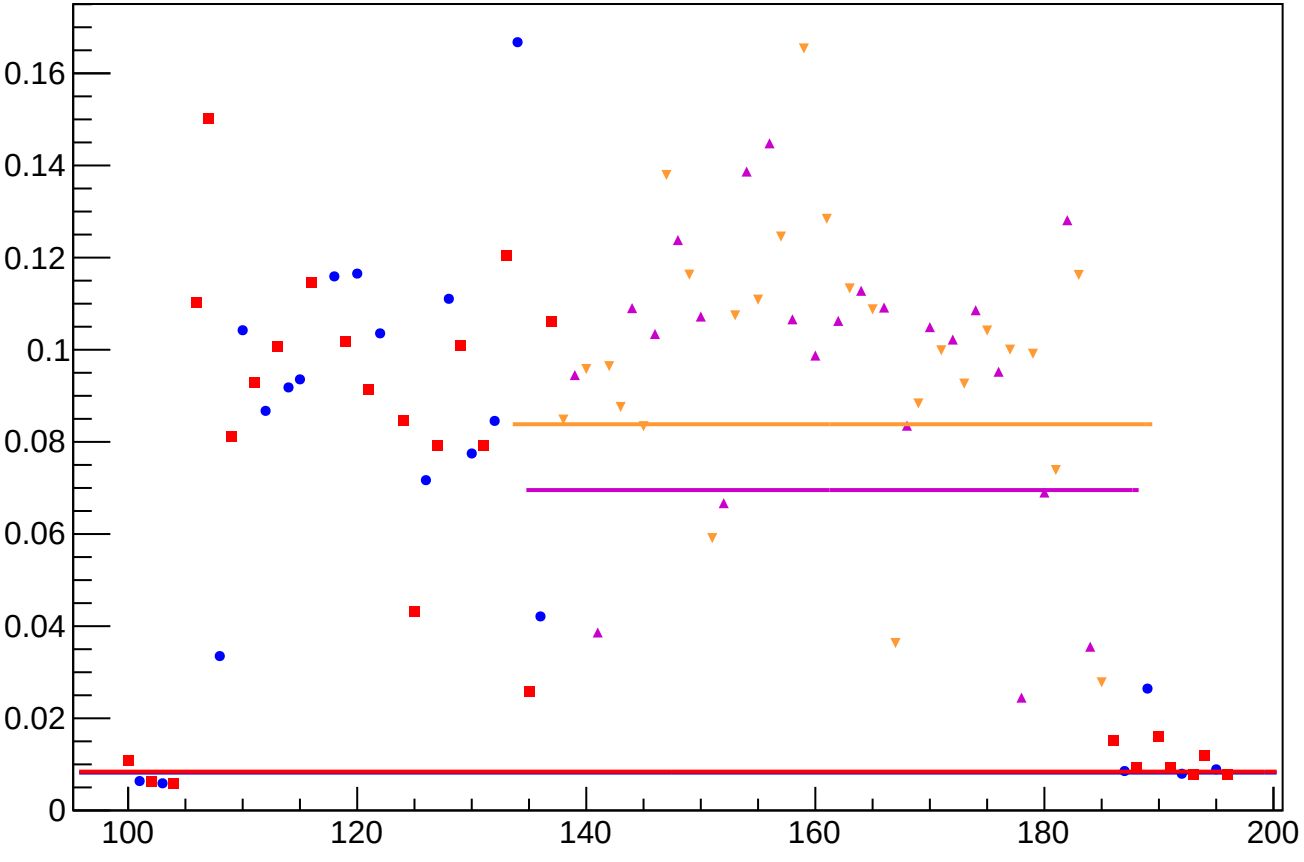
Right: 2.031+/-0.000 $\chi^2$/NDF: 287931851932.9/45

In: 2.156+/-0.000 $\chi^2$/NDF:132760943307.6/42

Out: 1.743+/-0.000 $\chi^2$/NDF:175281241537.3/50

All: 1.937+/-0.000 $\chi^2$/NDF: 312058446576.8

# yield_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 0.008+/-0.000 $\chi^2$/NDF: 8580937.7/19

Left Out: 0.084+/-0.000 $\chi^2$/NDF:3830160.2/24

Right Out: 0.008+/-0.000 $\chi^2$/NDF: 8720911.7/25

Left In: 0.070+/-0.000 $\chi^2$/NDF:6697383.9/22

Left: 0.076+/-0.000 $\chi^2$/NDF: 10977959.7/47

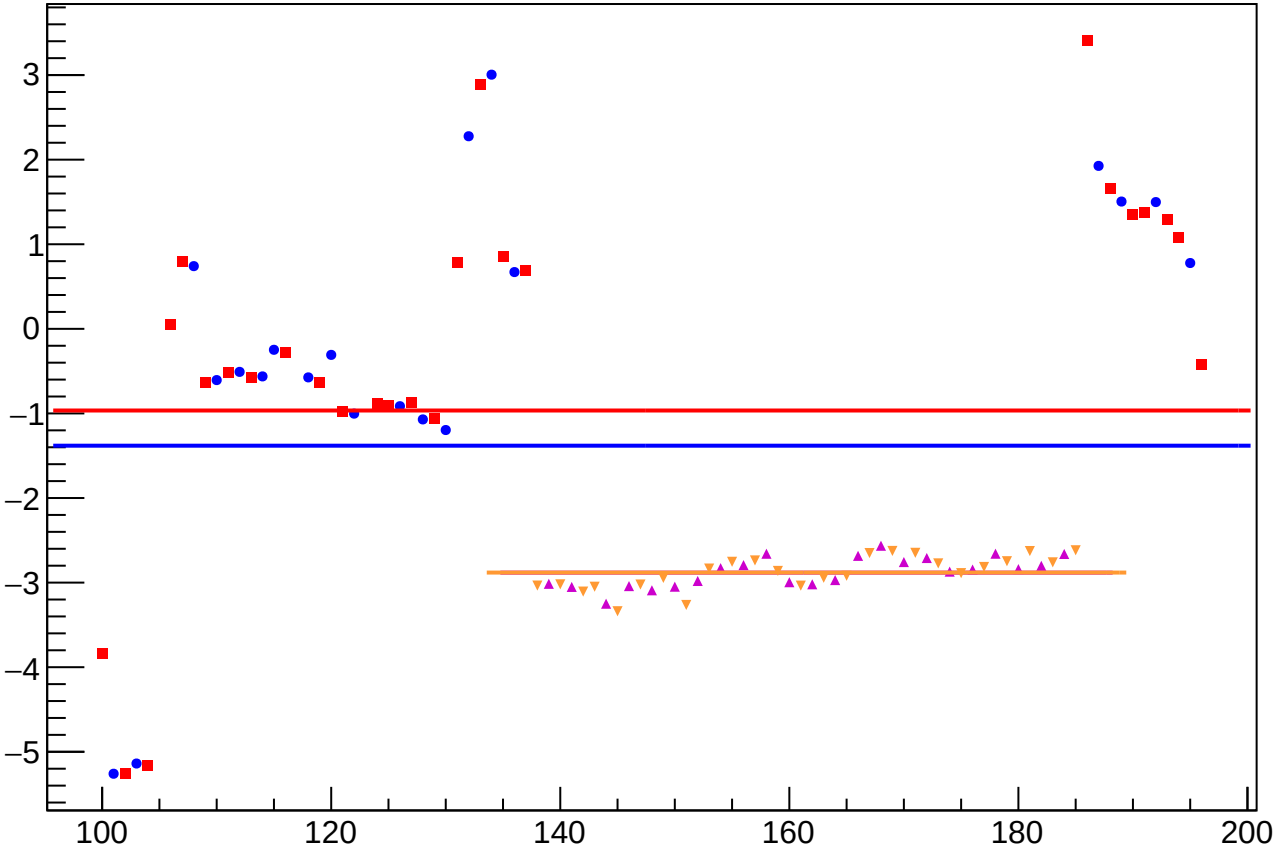
Right: 0.008+/-0.000 $\chi^2$/NDF: 17303613.3/45

In: 0.012+/-0.000 $\chi^2$/NDF:32199236.2/42

Out: 0.012+/-0.000 $\chi^2$/NDF:34992453.2/50

All: 0.012+/-0.000 $\chi^2$/NDF: 67191694.2/93

# yield_bpm0l04X_mean vs Slug, Sign Corrected




Right In: -1.381+/-0.000 $\chi^2$/NDF: 205849128938.0/19

Left Out: -2.881+/-0.000 $\chi^2$/NDF:10553050715.1/24

Right Out: -0.965+/-0.000 $\chi^2$/NDF: 229380734419.8/25

Left In: -2.882+/-0.000 $\chi^2$/NDF:8300047325.0/22

Left: -2.882+/-0.000 $\chi^2$/NDF: 18853297310.6/47

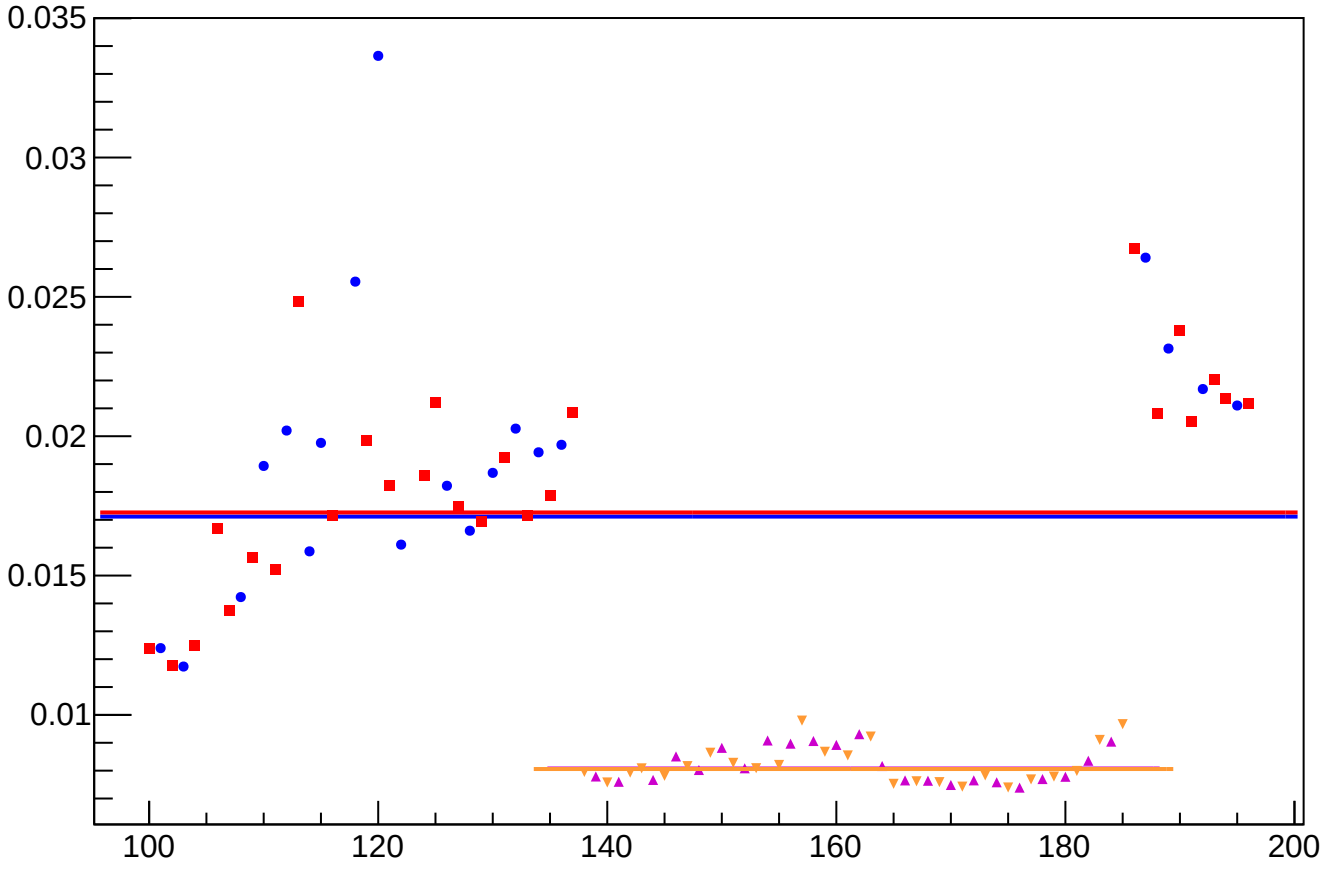
Right: -1.149+/-0.000 $\chi^2$/NDF: 437906433873.6/45

In: -2.741+/-0.000 $\chi^2$/NDF:270788626340.2/42

Out: -2.671+/-0.000 $\chi^2$/NDF:354139586417.7/50

All: -2.705+/-0.000 $\chi^2$/NDF: 625681936183.4

# yield_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 0.017+/-0.000 $\chi^2$/NDF: 1042128.8/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:185446.1/24

Right Out: 0.017+/-0.000 $\chi^2$/NDF: 1025975.7/25

Left In: 0.008+/-0.000 $\chi^2$/NDF:181843.4/22

Left: 0.008+/-0.000 $\chi^2$/NDF: 367394.9/47

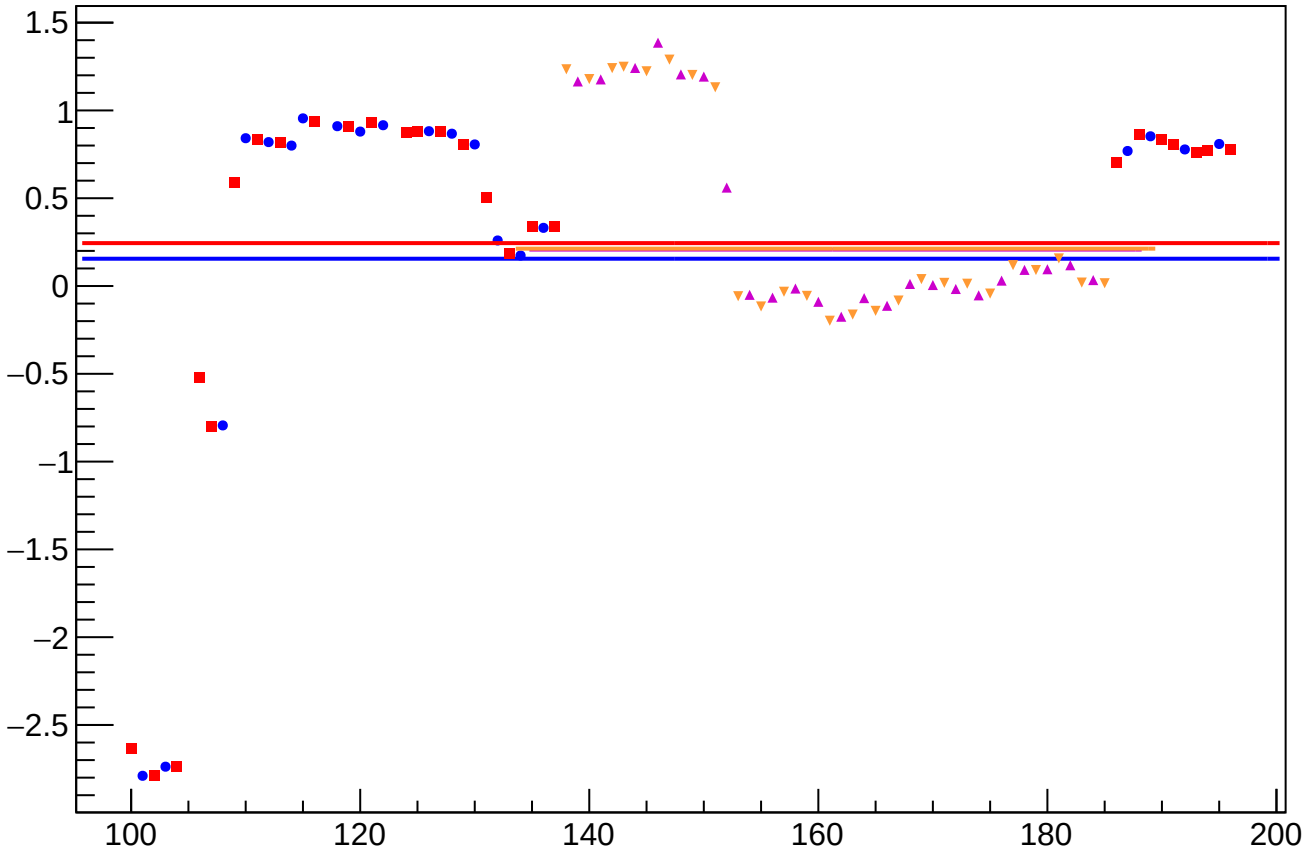
Right: 0.017+/-0.000 $\chi^2$/NDF: 2068784.6/45

In: 0.009+/-0.000 $\chi^2$/NDF:5331338.6/42

Out: 0.009+/-0.000 $\chi^2$/NDF:6485823.7/50

All: 0.009+/-0.000 $\chi^2$/NDF: 11823179.8/93

# yield_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: 0.155+/-0.000 $\chi^2$/NDF: 902090353226.2/19

Left Out: 0.213+/-0.000 $\chi^2$/NDF:102819241186.2/24

Right Out: 0.244+/-0.000 $\chi^2$/NDF: 1008512256513.6/25

Left In: 0.207+/-0.000 $\chi^2$/NDF:87109076861.7/22

Left: 0.210+/-0.000 $\chi^2$/NDF: 189934243300.6/47

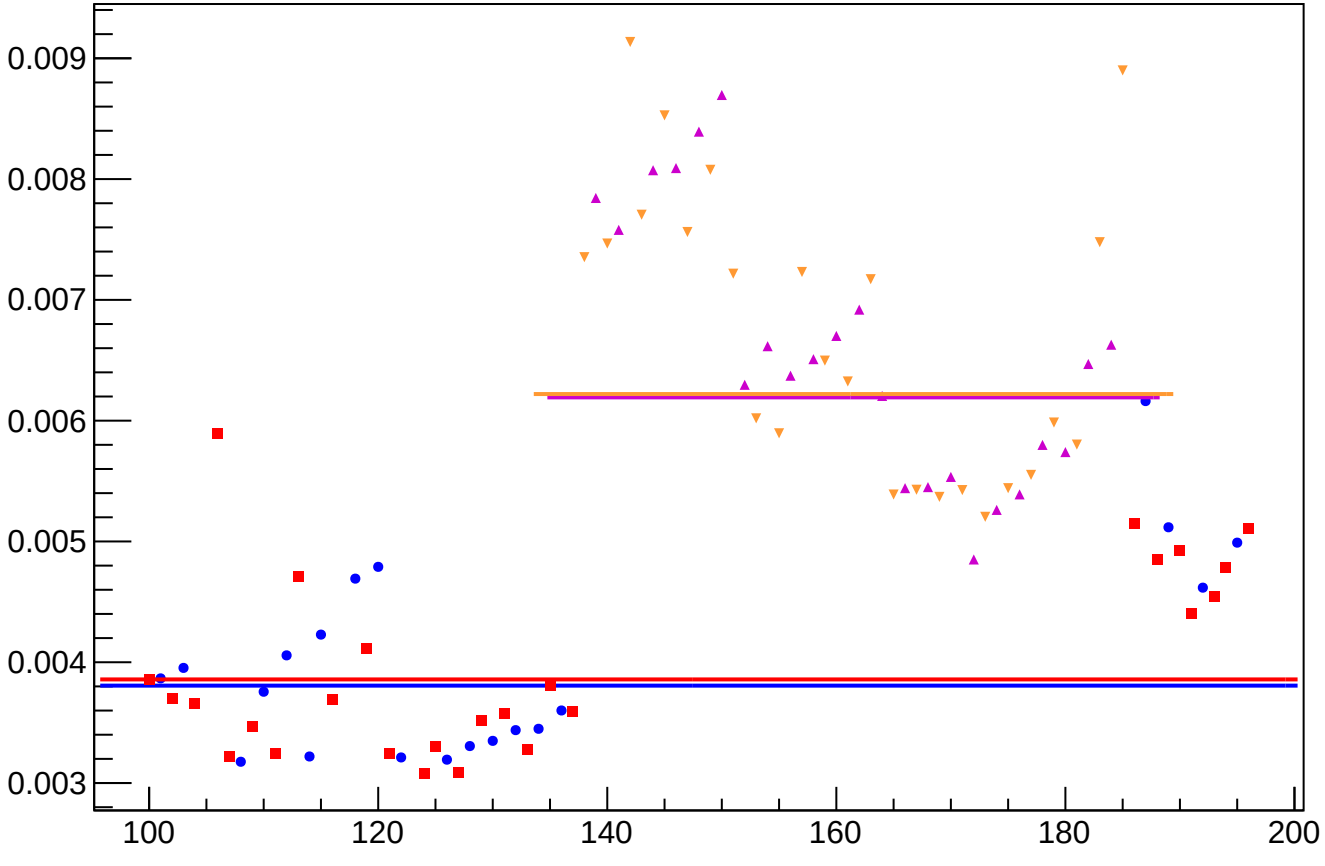
Right: 0.204+/-0.000 $\chi^2$/NDF: 1913278497501.6/45

In: 0.176+/-0.000 $\chi^2$/NDF:989871111661.1/42

Out: 0.233+/-0.000 $\chi^2$/NDF:1111603705149.7/50

All: 0.206+/-0.000 $\chi^2$/NDF: 2103233527249.

# yield_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 494077.9/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:813678.9/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 691286.6/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:816234.4/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 1630235.5/47

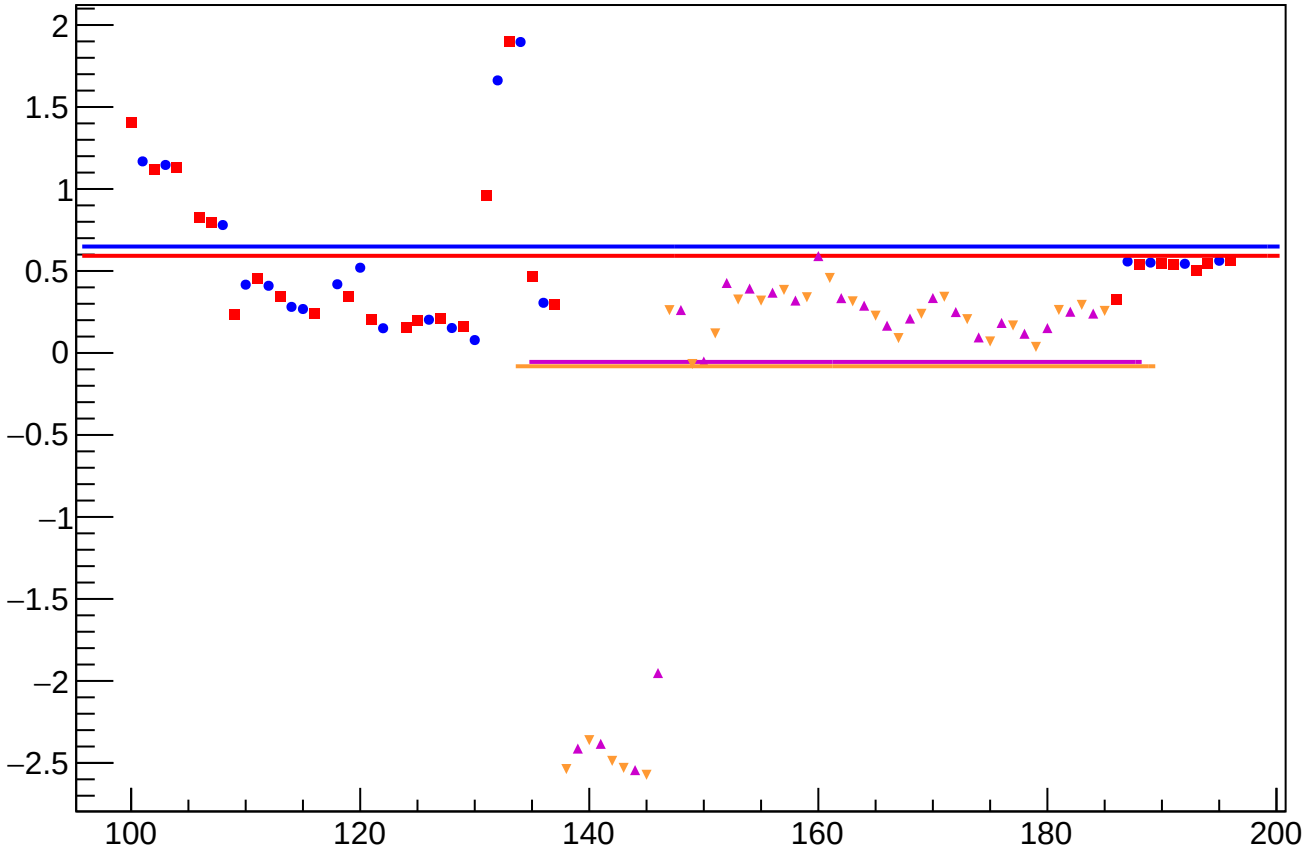
Right: 0.004+/-0.000 $\chi^2$/NDF: 1187155.1/45

In: 0.005+/-0.000 $\chi^2$/NDF:4137248.2/42

Out: 0.005+/-0.000 $\chi^2$/NDF:4546926.1/50

All: 0.005+/-0.000 $\chi^2$/NDF: 8685492.4/93

# yield_bpm0l05X_mean vs Slug, Sign Corrected




Right In: 0.649+/-0.000 $\chi^2$/NDF: 41667895765.0/19

Left Out: -0.081+/-0.000 $\chi^2$/NDF:388332231902.9/24

Right Out: 0.592+/-0.000 $\chi^2$/NDF: 43318306387.9/25

Left In: -0.055+/-0.000 $\chi^2$/NDF:347072248163.0/22

Left: -0.068+/-0.000 $\chi^2$/NDF: 735579885262.1/47

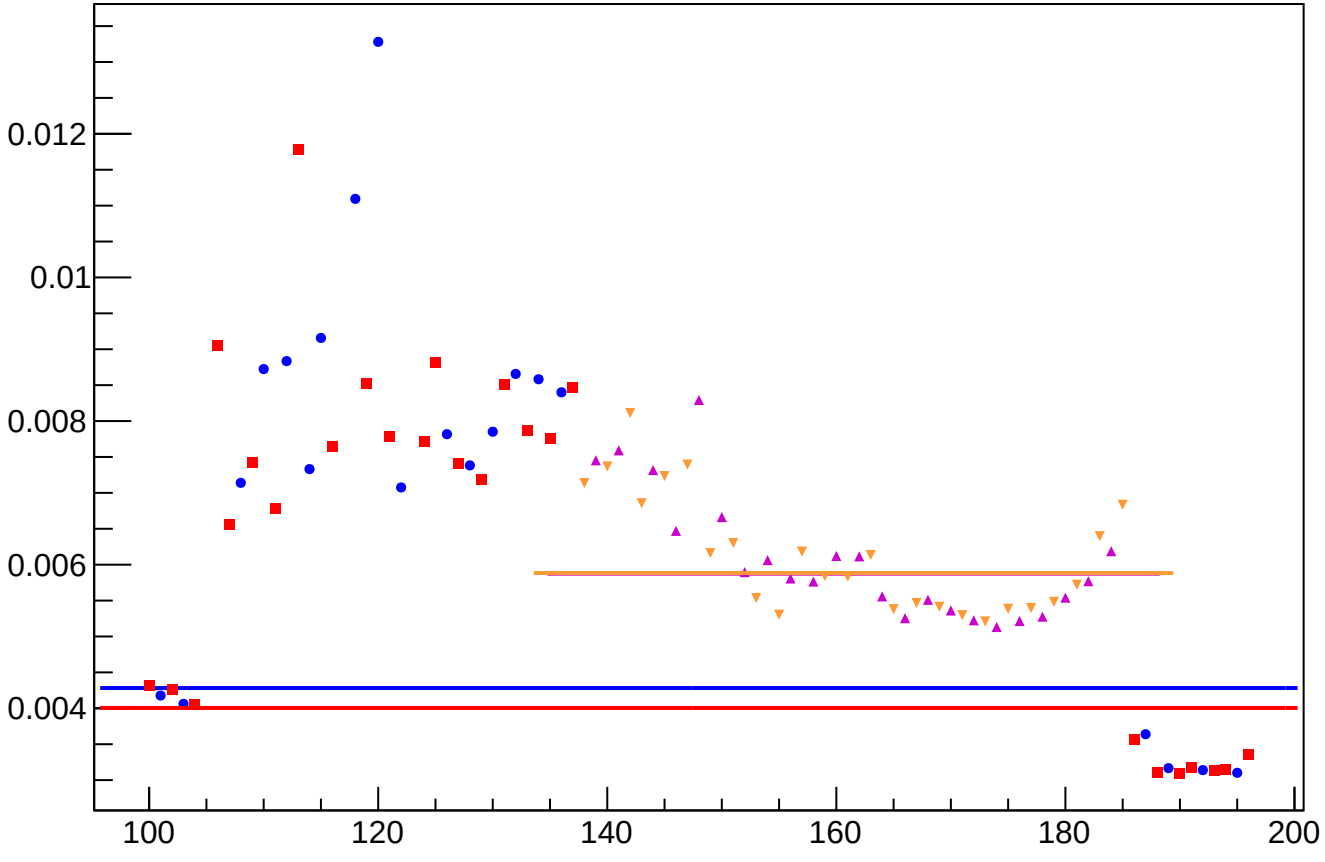
Right: 0.615+/-0.000 $\chi^2$/NDF: 85736192254.6/45

In: 0.260+/-0.000 $\chi^2$/NDF:495941336371.7/42

Out: 0.278+/-0.000 $\chi^2$/NDF:554384371555.3/50

All: 0.270+/-0.000 $\chi^2$/NDF: 1050496076198.

# yield_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 3123041.9/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:457789.1/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 3252760.5/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:521878.3/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 979706.0/47

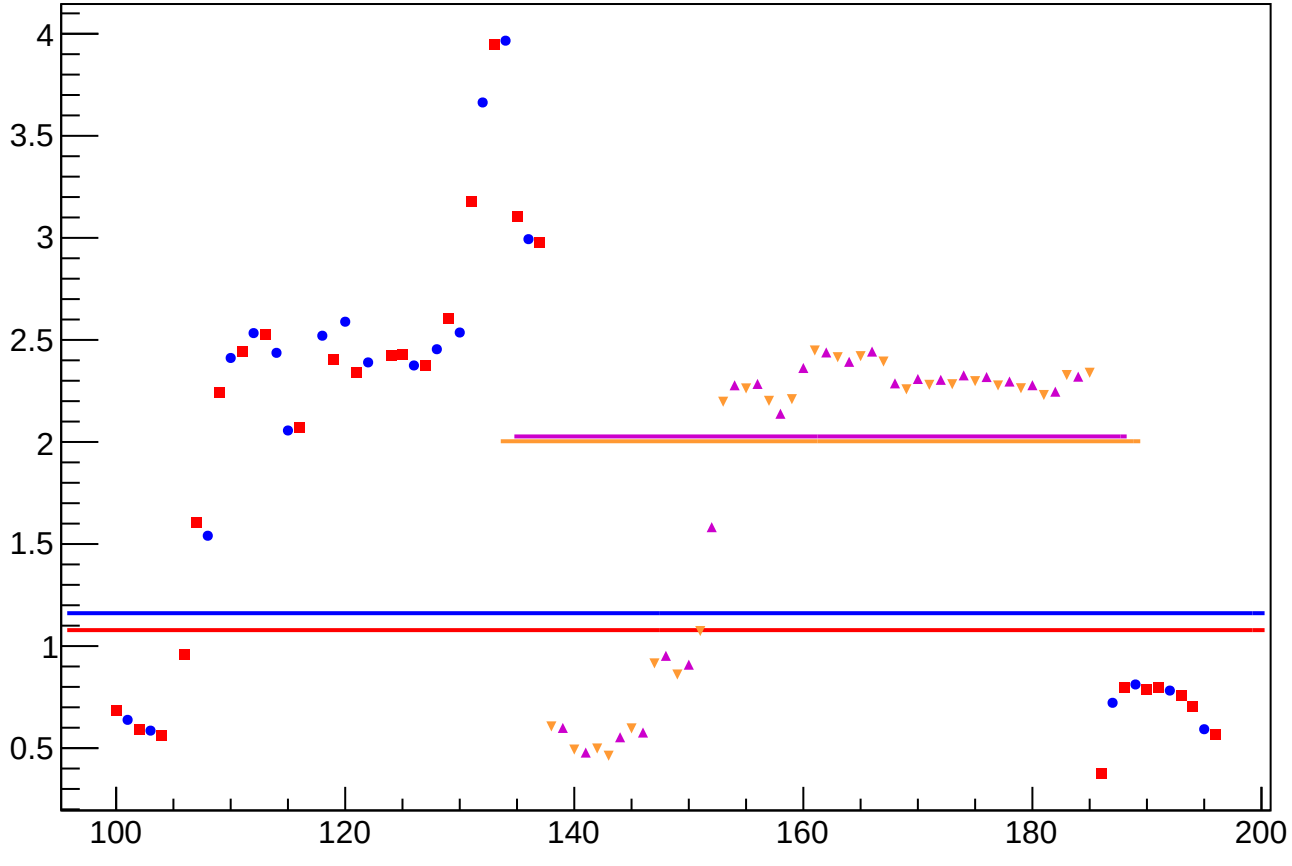
Right: 0.004+/-0.000 $\chi^2$/NDF: 6411714.1/45

In: 0.005+/-0.000 $\chi^2$/NDF:4743032.5/42

Out: 0.005+/-0.000 $\chi^2$/NDF:5619455.1/50

All: 0.005+/-0.000 $\chi^2$/NDF: 10440076.6/93

# yield_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 1.161+/-0.000 $\chi^2$/NDF: 201988092847.3/19

Left Out: 2.004+/-0.000 $\chi^2$/NDF:219172813454.7/24

Right Out: 1.078+/-0.000 $\chi^2$/NDF: 242152333651.4/25

Left In: 2.027+/-0.000 $\chi^2$/NDF:194461333084.6/22

Left: 2.015+/-0.000 $\chi^2$/NDF: 413784920453.7/47

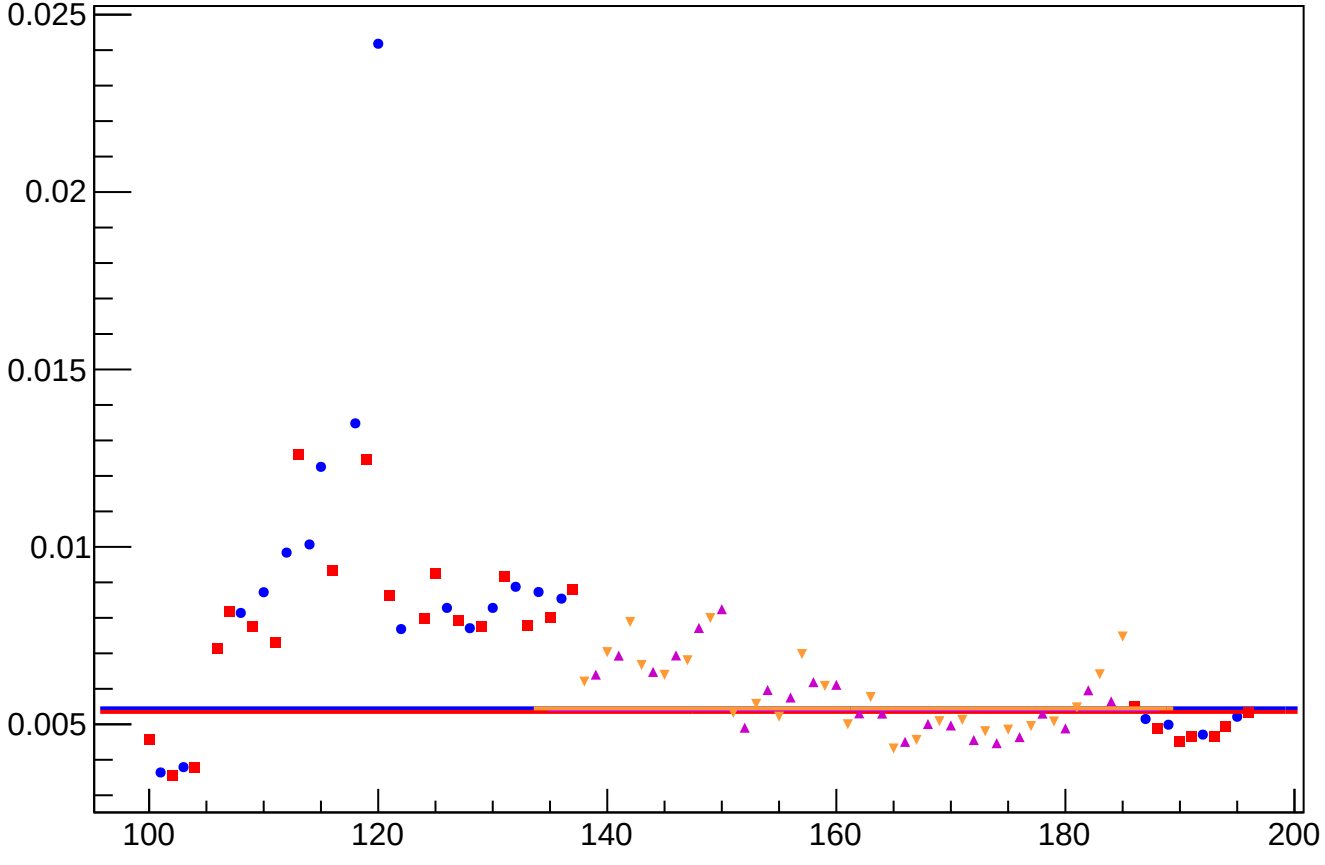
Right: 1.113+/-0.000 $\chi^2$/NDF: 445128015542.3/45

In: 1.751+/-0.000 $\chi^2$/NDF:523732970973.9/42

Out: 1.652+/-0.000 $\chi^2$/NDF:640795884757.1/50

All: 1.698+/-0.000 $\chi^2$/NDF: 1168578269712.

# yield_bpm0l05Y_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 2305674.1/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:771417.6/24

Right Out: 0.005+/-0.000 $\chi^2$/NDF: 2124028.2/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:815136.5/22

Left: 0.005+/-0.000 $\chi^2$/NDF: 1587605.4/47

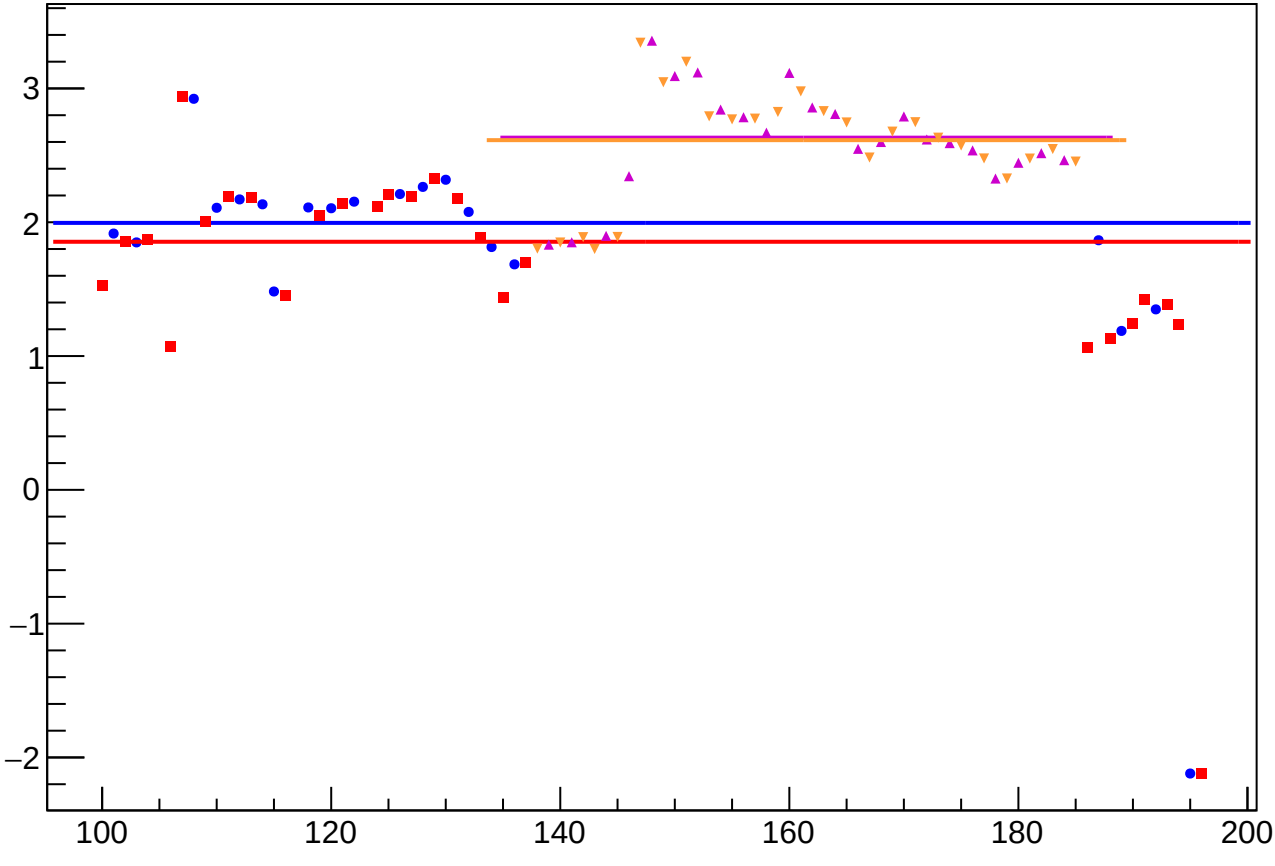
Right: 0.005+/-0.000 $\chi^2$/NDF: 4432539.1/45

In: 0.005+/-0.000 $\chi^2$/NDF:3121491.6/42

Out: 0.005+/-0.000 $\chi^2$/NDF:2899529.2/50

All: 0.005+/-0.000 $\chi^2$/NDF: 6021070.6/93

# yield_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 1.995+/-0.000 $\chi^2$/NDF: 42498662674.3/19

Left Out: 2.614+/-0.000 $\chi^2$/NDF:46402554271.4/24

Right Out: 1.854+/-0.000 $\chi^2$/NDF: 53891578599.1/25

Left In: 2.632+/-0.000 $\chi^2$/NDF:40551967819.7/22

Left: 2.623+/-0.000 $\chi^2$/NDF: 87009327498.9/47

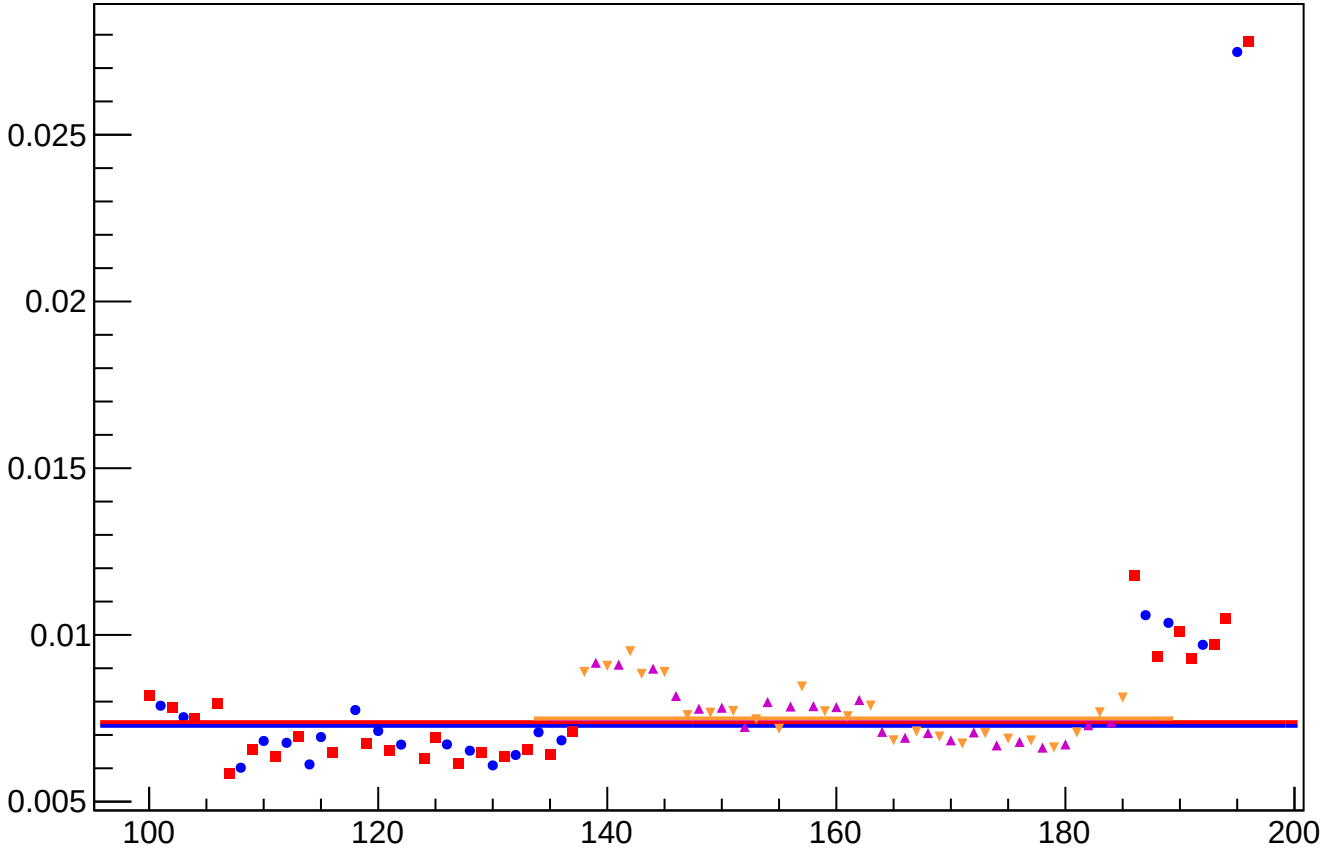
Right: 1.919+/-0.000 $\chi^2$/NDF: 98167505654.6/45

In: 2.412+/-0.000 $\chi^2$/NDF:126664813902.4/42

Out: 2.327+/-0.000 $\chi^2$/NDF:170471331919.2/50

All: 2.368+/-0.000 $\chi^2$/NDF: 298890447245.7

# yield_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 0.007+/-0.000 $\chi^2$/NDF: 1338509.8/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:332673.2/24

Right Out: 0.007+/-0.000 $\chi^2$/NDF: 1602940.0/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:321914.4/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 654825.5/47

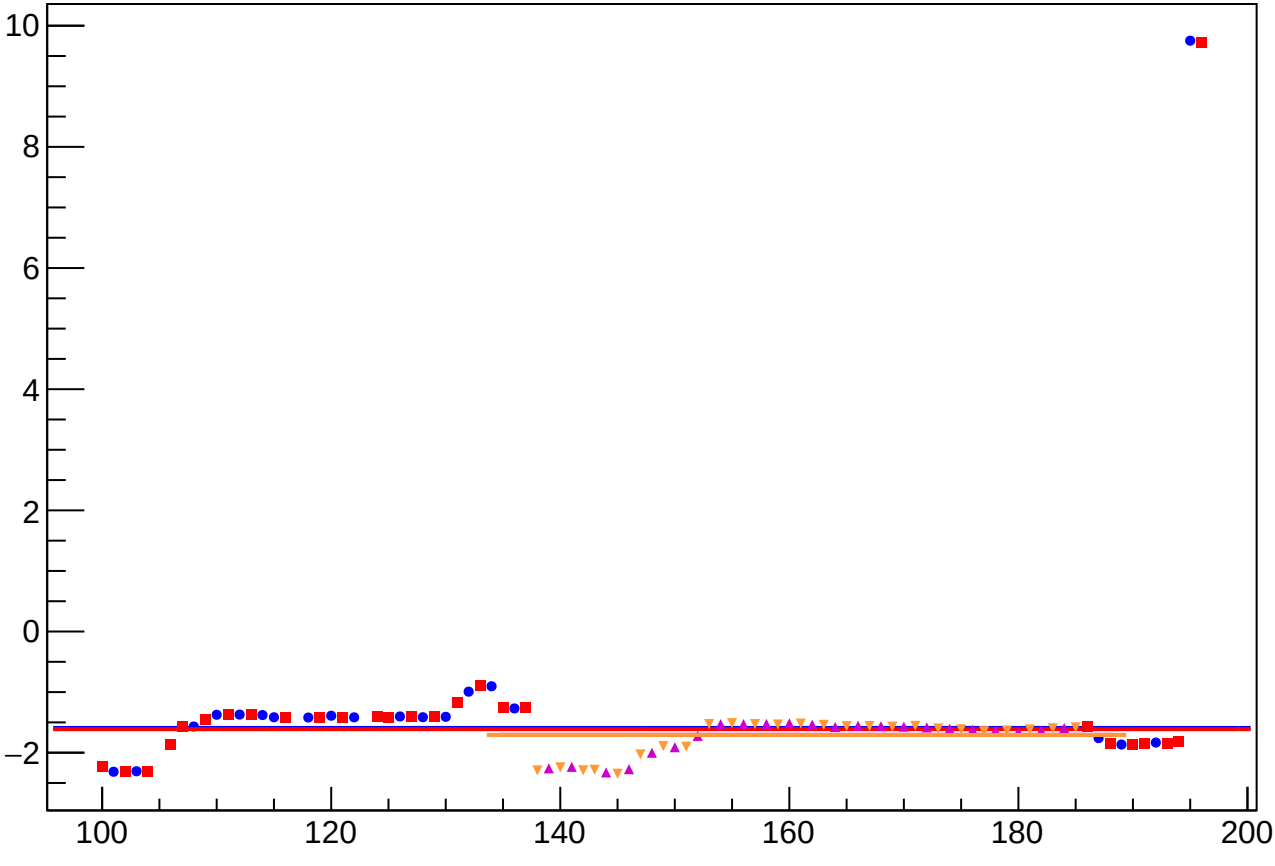
Right: 0.007+/-0.000 $\chi^2$/NDF: 2943563.6/45

In: 0.007+/-0.000 $\chi^2$/NDF:1668423.8/42

Out: 0.007+/-0.000 $\chi^2$/NDF:1938639.2/50

All: 0.007+/-0.000 $\chi^2$/NDF: 3608414.3/93

# yield_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -1.592+/-0.000 $\chi^2$/NDF: 215776927862.2/19

Left Out: -1.708+/-0.000 $\chi^2$/NDF:151845502556.2/24

Right Out: -1.612+/-0.000 $\chi^2$/NDF: 222471632964.0/25

Left In: -1.705+/-0.000 $\chi^2$/NDF:136540618081.0/22

Left: -1.707+/-0.000 $\chi^2$/NDF: 288391574261.0/47

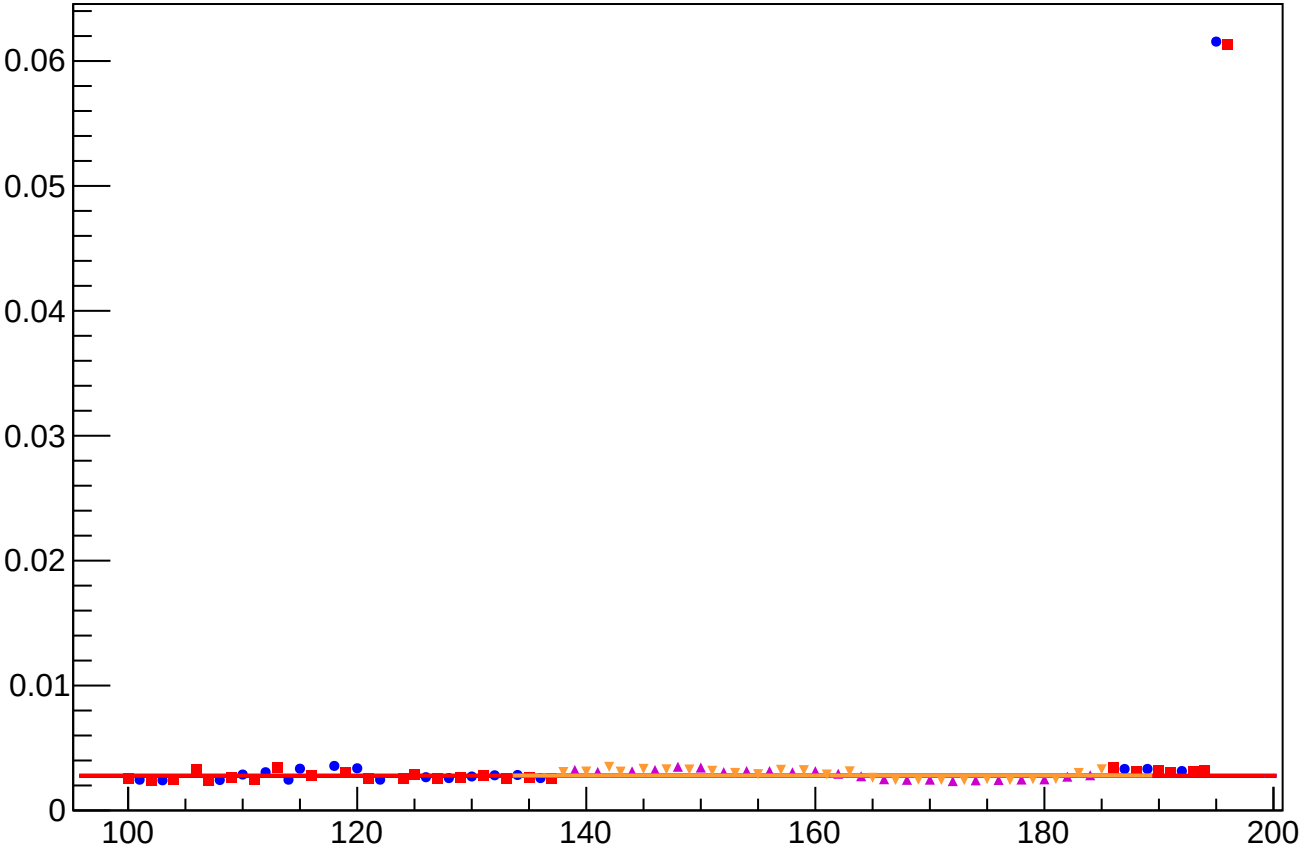
Right: -1.603+/-0.000 $\chi^2$/NDF: 438493813802.9/45

In: -1.668+/-0.000 $\chi^2$/NDF:361755010159.8/42

Out: -1.672+/-0.000 $\chi^2$/NDF:382004442304.4/50

All: -1.670+/-0.000 $\chi^2$/NDF: 743799566622.6

# yield_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 1839183.5/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:547758.3/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 1748808.7/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:557113.5/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 1105212.9/47

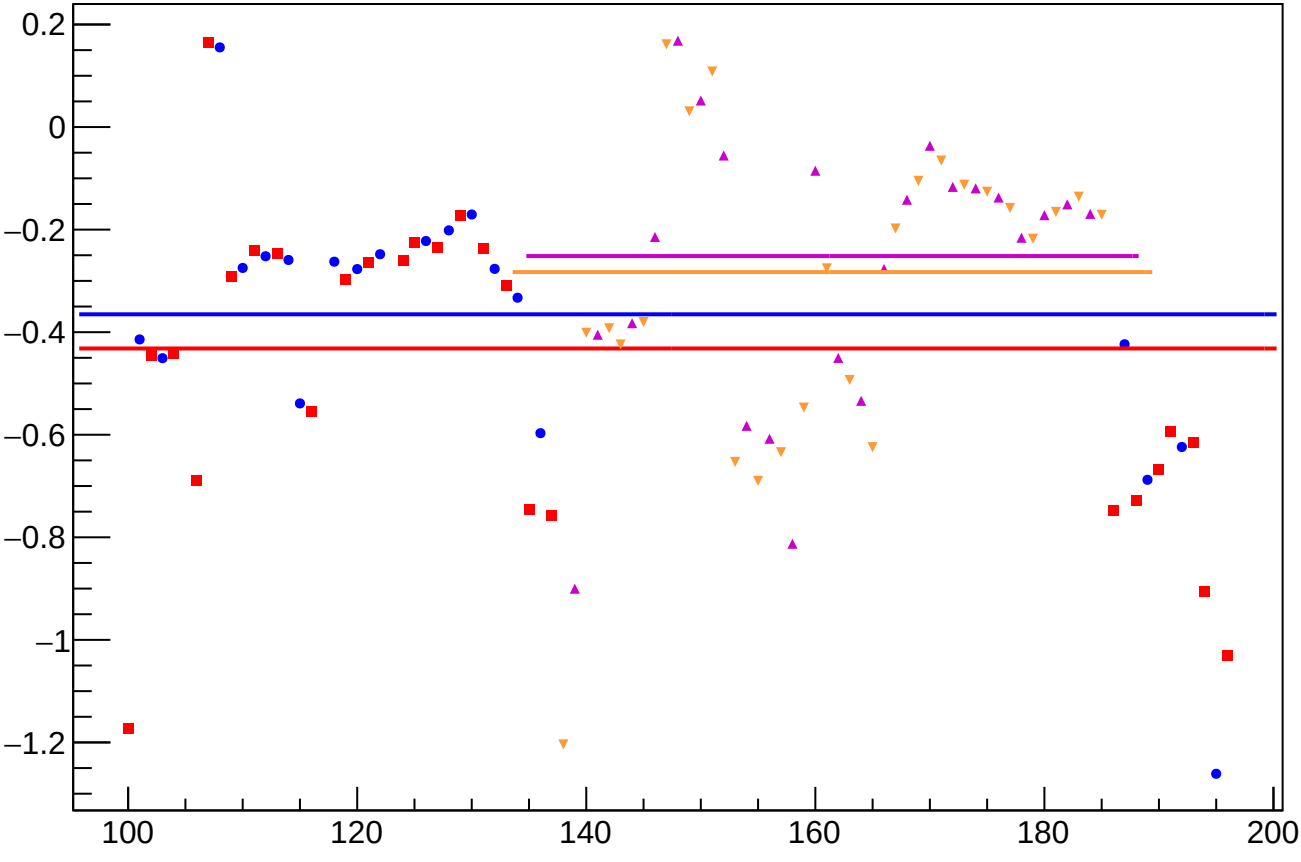
Right: 0.003+/-0.000 $\chi^2$/NDF: 3588470.7/45

In: 0.003+/-0.000 $\chi^2$/NDF:2396644.2/42

Out: 0.003+/-0.000 $\chi^2$/NDF:2296668.6/50

All: 0.003+/-0.000 $\chi^2$/NDF: 4694047.1/93

# yield_bpm0l07X_mean vs Slug, Sign Corrected




Right In: -0.365+/-0.000 $\chi^2$/NDF: 4594222867.6/19

Left Out: -0.283+/-0.000 $\chi^2$/NDF:9343511244.8/24

Right Out: -0.432+/-0.000 $\chi^2$/NDF: 5312001894.3/25

Left In: -0.252+/-0.000 $\chi^2$/NDF:7167367678.6/22

Left: -0.267+/-0.000 $\chi^2$/NDF: 16567222880.0/47

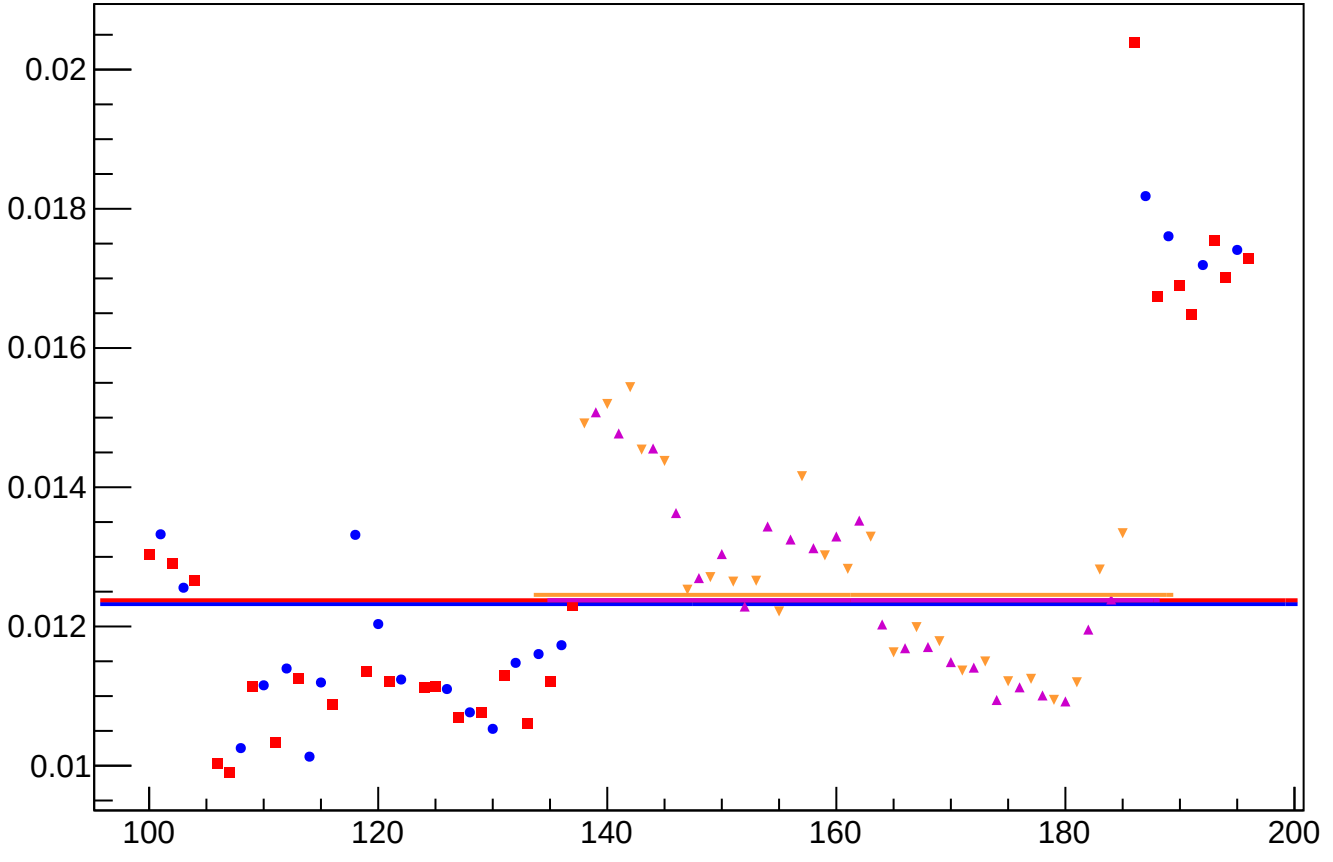
Right: -0.402+/-0.000 $\chi^2$/NDF: 10052940218.3/45

In: -0.291+/-0.000 $\chi^2$/NDF:12269248339.2/42

Out: -0.340+/-0.000 $\chi^2$/NDF:15655218190.4/50

All: -0.317+/-0.000 $\chi^2$/NDF: 28140214924.5/

# yield_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 580300.3/19

Left Out: 0.012+/-0.000 $\chi^2$/NDF:341430.5/24

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 964860.2/25

Left In: 0.012+/-0.000 $\chi^2$/NDF:326925.9/22

Left: 0.012+/-0.000 $\chi^2$/NDF: 669035.7/47

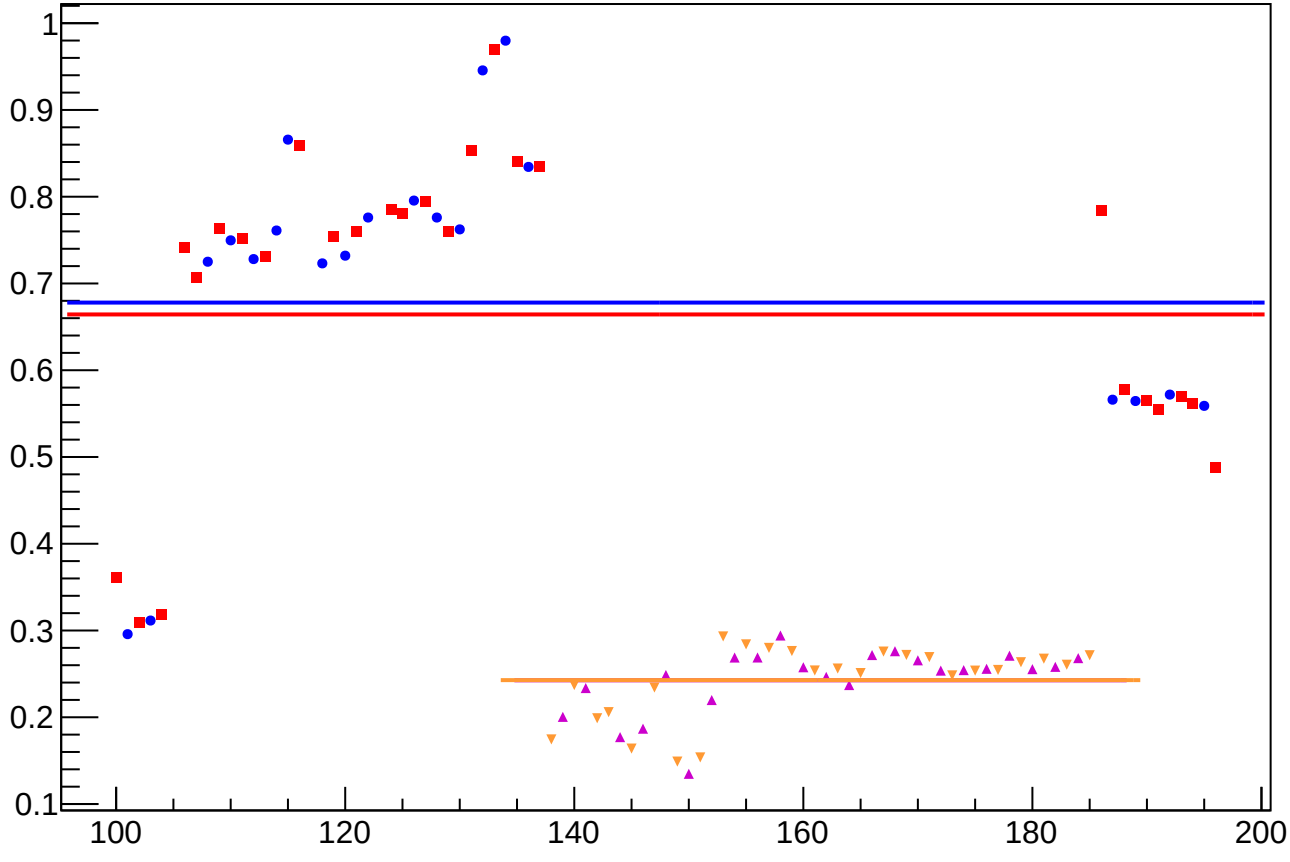
Right: 0.012+/-0.000 $\chi^2$/NDF: 1545358.7/45

In: 0.012+/-0.000 $\chi^2$/NDF:907471.1/42

Out: 0.012+/-0.000 $\chi^2$/NDF:1306836.3/50

All: 0.012+/-0.000 $\chi^2$/NDF: 2215108.3/93

# yield_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: 0.678+/-0.000 $\chi^2$/NDF: 54036125747.4/19

Left Out: 0.243+/-0.000 $\chi^2$/NDF:7290530687.7/24

Right Out: 0.664+/-0.000 $\chi^2$/NDF: 54435884727.3/25

Left In: 0.243+/-0.000 $\chi^2$/NDF:5781231269.1/22

Left: 0.243+/-0.000 $\chi^2$/NDF: 13071863849.3/47

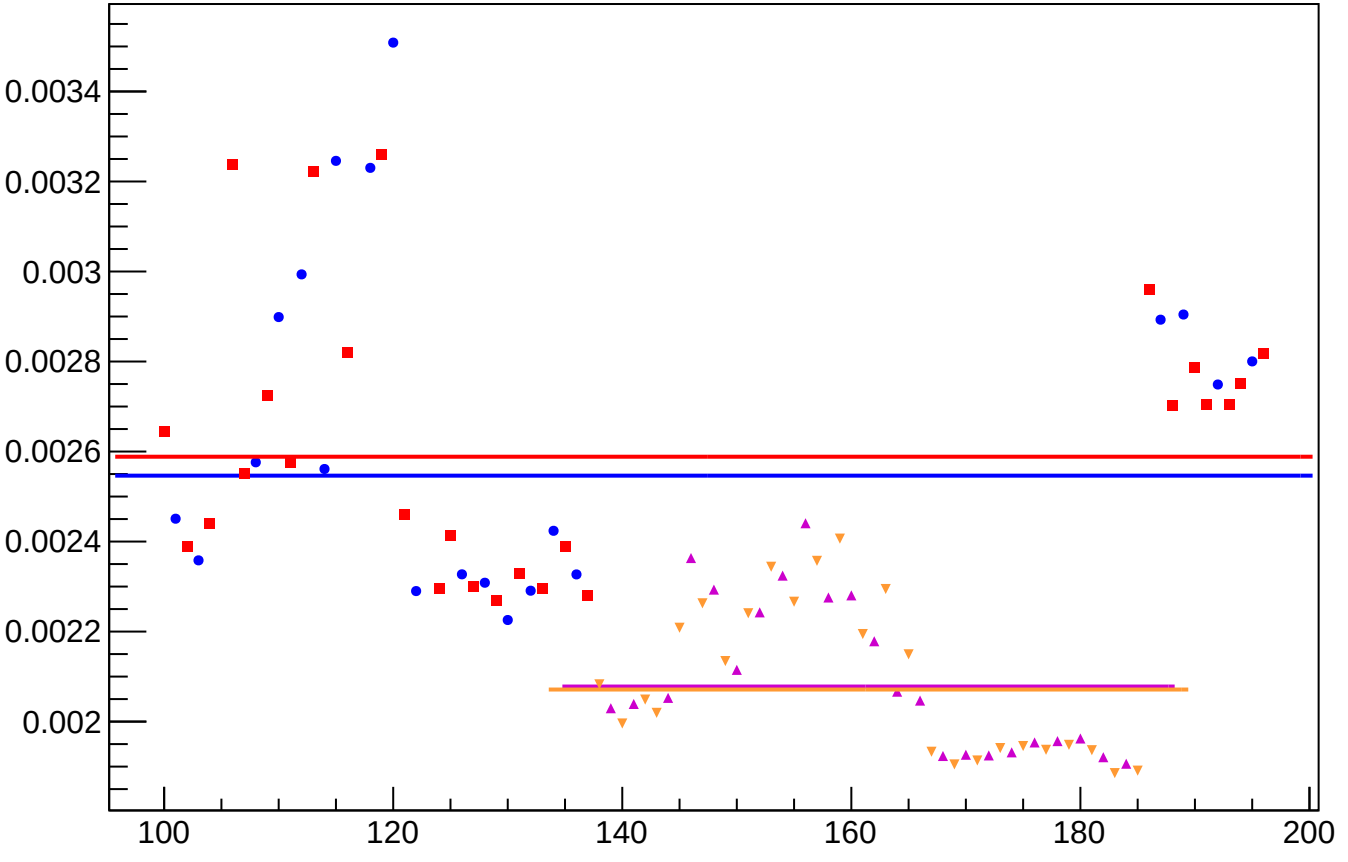
Right: 0.671+/-0.000 $\chi^2$/NDF: 108617023084.4/45

In: 0.353+/-0.000 $\chi^2$/NDF:261887415527.3/42

Out: 0.359+/-0.000 $\chi^2$/NDF:279884723291.9/50

All: 0.356+/-0.000 $\chi^2$/NDF: 541869851384.6

# yield_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 264675.5/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:233799.0/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 234162.0/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:211544.0/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 445534.4/47

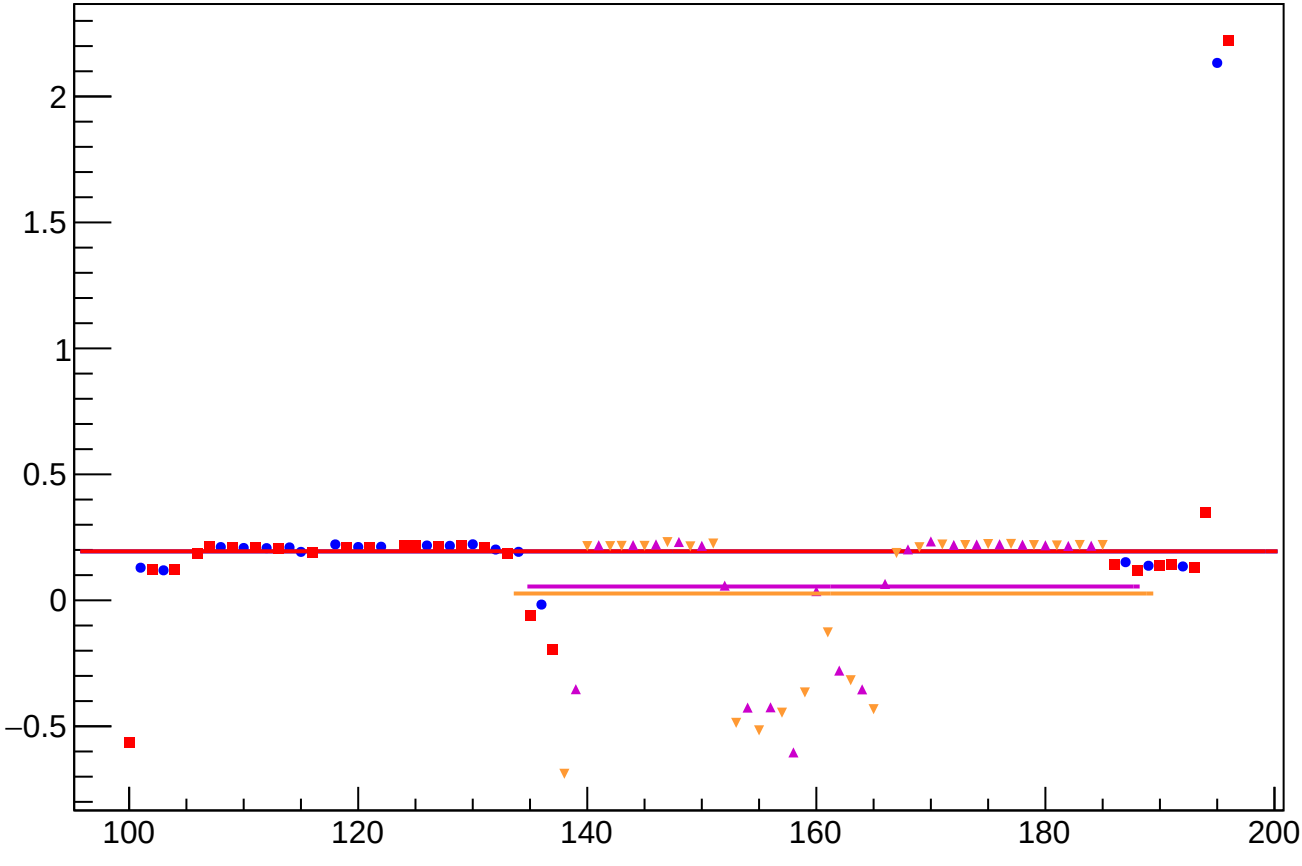
Right: 0.003+/-0.000 $\chi^2$/NDF: 501584.2/45

In: 0.002+/-0.000 $\chi^2$/NDF:944261.1/42

Out: 0.002+/-0.000 $\chi^2$/NDF:1125106.7/50

All: 0.002+/-0.000 $\chi^2$/NDF: 2071042.9/93

# yield_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 0.194+/-0.000 $\chi^2$/NDF: 3913340146.4/19

Left Out: 0.027+/-0.000 $\chi^2$/NDF:12975171876.0/24

Right Out: 0.195+/-0.000 $\chi^2$/NDF: 6017950672.6/25

Left In: 0.055+/-0.000 $\chi^2$/NDF:9704180322.0/22

Left: 0.041+/-0.000 $\chi^2$/NDF: 22733670617.6/47

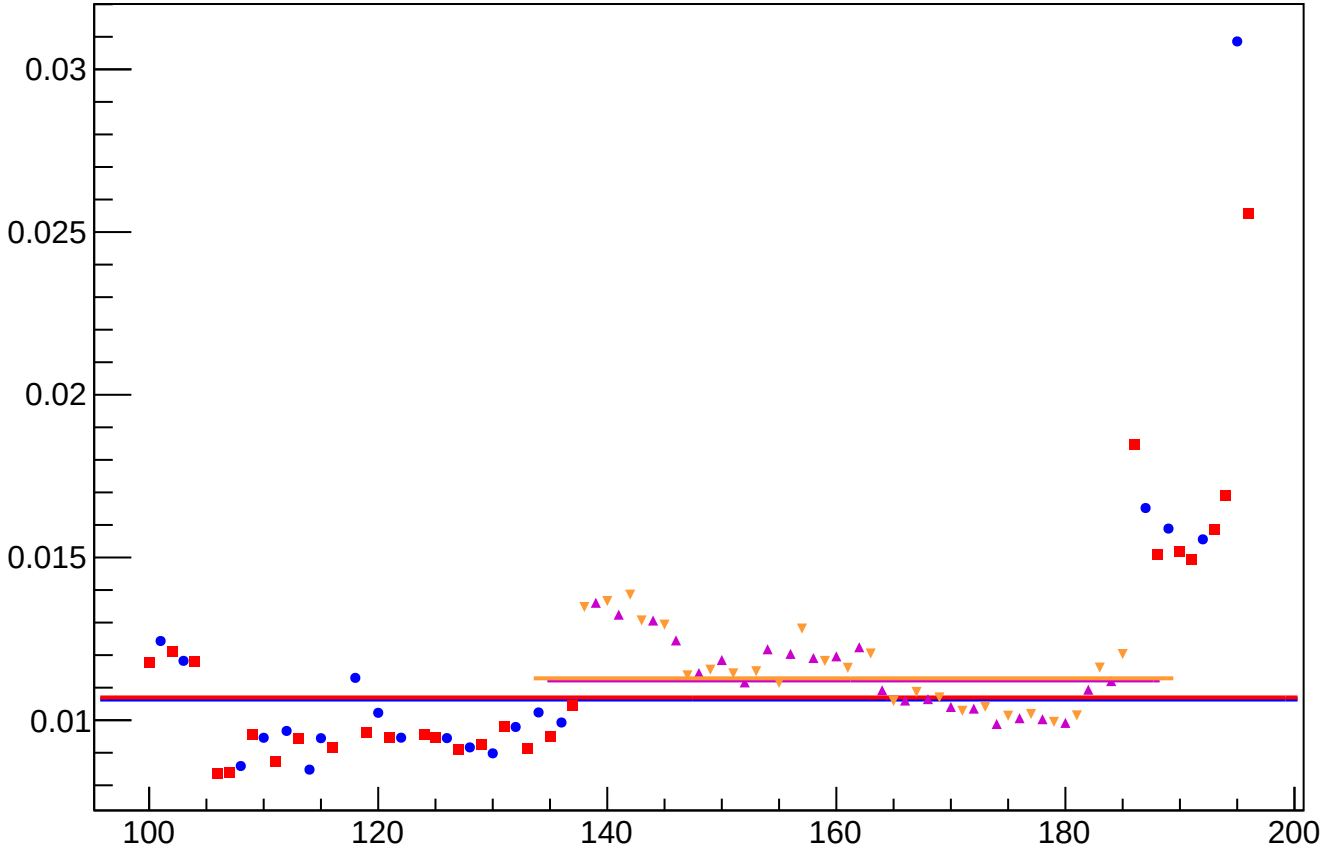
Right: 0.194+/-0.000 $\chi^2$/NDF: 9931302541.3/45

In: 0.105+/-0.000 $\chi^2$/NDF:14580555818.0/42

Out: 0.093+/-0.000 $\chi^2$/NDF:20585922220.6/50

All: 0.099+/-0.000 $\chi^2$/NDF: 35182384142.2/9

# yield_bpm0l08X_rms vs Slug, Sign Corrected




Right In: 0.011+/-0.000 $\chi^2$/NDF: 1328876.4/19

Left Out: 0.011+/-0.000 $\chi^2$/NDF:328248.0/24

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 1653843.0/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:315246.6/22

Left: 0.011+/-0.000 $\chi^2$/NDF: 644069.7/47

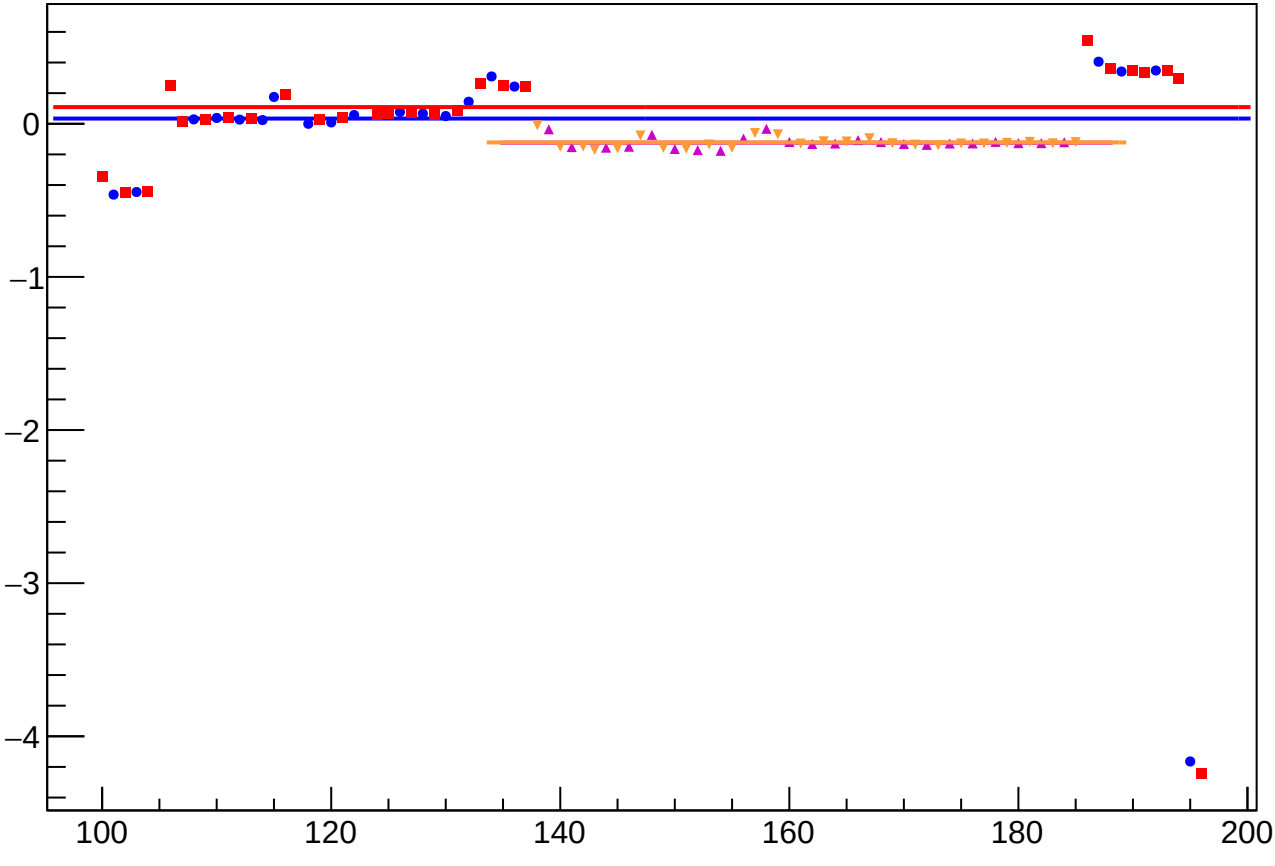
Right: 0.011+/-0.000 $\chi^2$/NDF: 2983068.0/45

In: 0.011+/-0.000 $\chi^2$/NDF:1678463.5/42

Out: 0.011+/-0.000 $\chi^2$/NDF:2021298.7/50

All: 0.011+/-0.000 $\chi^2$/NDF: 3700198.9/93

# yield_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: 0.034+/-0.000 $\chi^2$/NDF: 60485904202.6/19

Left Out: -0.122+/-0.000 $\chi^2$/NDF:2922583819.6/24

Right Out: 0.109+/-0.000 $\chi^2$/NDF: 78208640133.2/25

Left In: -0.124+/-0.000 $\chi^2$/NDF:2809457047.2/22

Left: -0.123+/-0.000 $\chi^2$/NDF: 5736373212.1/47

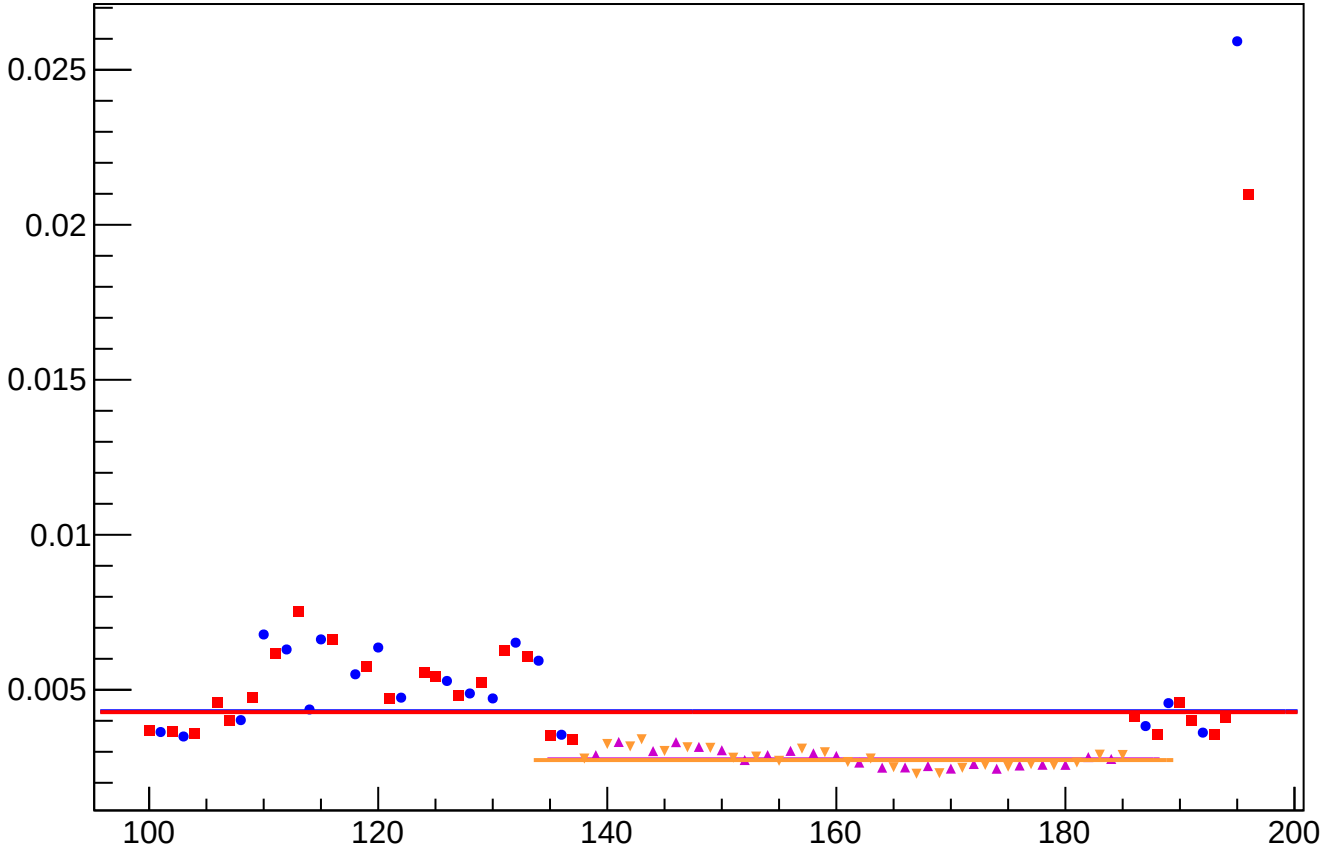
Right: 0.076+/-0.000 $\chi^2$/NDF: 140032620145.2/45

In: -0.099+/-0.000 $\chi^2$/NDF:72255665916.4/42

Out: -0.080+/-0.000 $\chi^2$/NDF:104697607460.0/50

All: -0.089+/-0.000 $\chi^2$/NDF: 177445987206.7

# yield_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 1958329.0/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:391885.5/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1868066.8/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:293113.7/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 686267.5/47

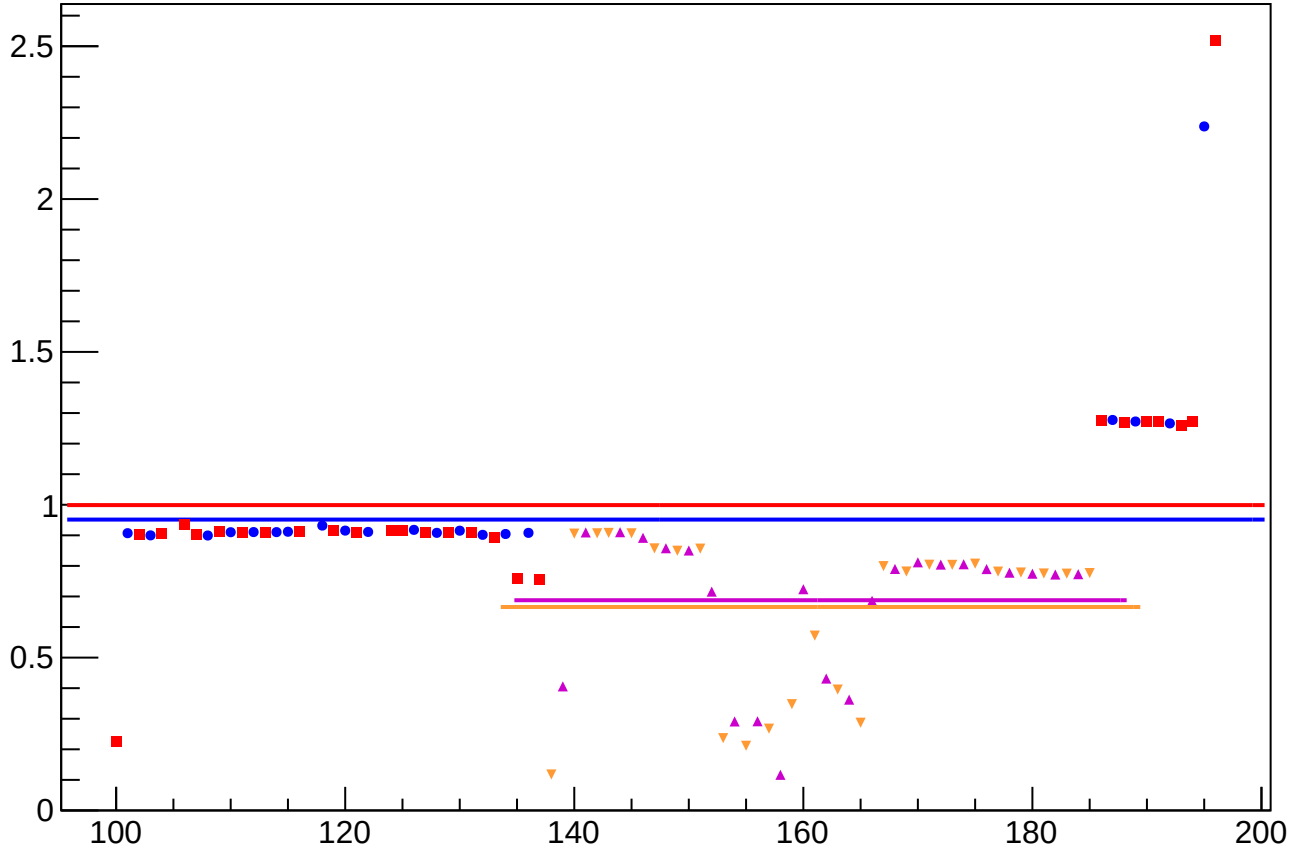
Right: 0.004+/-0.000 $\chi^2$/NDF: 3826797.7/45

In: 0.003+/-0.000 $\chi^2$/NDF:3987714.4/42

Out: 0.003+/-0.000 $\chi^2$/NDF:4378293.0/50

All: 0.003+/-0.000 $\chi^2$/NDF: 8366335.7/93

# yield_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 0.952+/-0.000 $\chi^2$/NDF: 883323620.2/19

Left Out: 0.666+/-0.000 $\chi^2$/NDF:9213839939.9/24

Right Out: 0.999+/-0.000 $\chi^2$/NDF: 6299773979.0/25

Left In: 0.688+/-0.000 $\chi^2$/NDF:6999062215.3/22

Left: 0.676+/-0.000 $\chi^2$/NDF: 16249398180.7/47

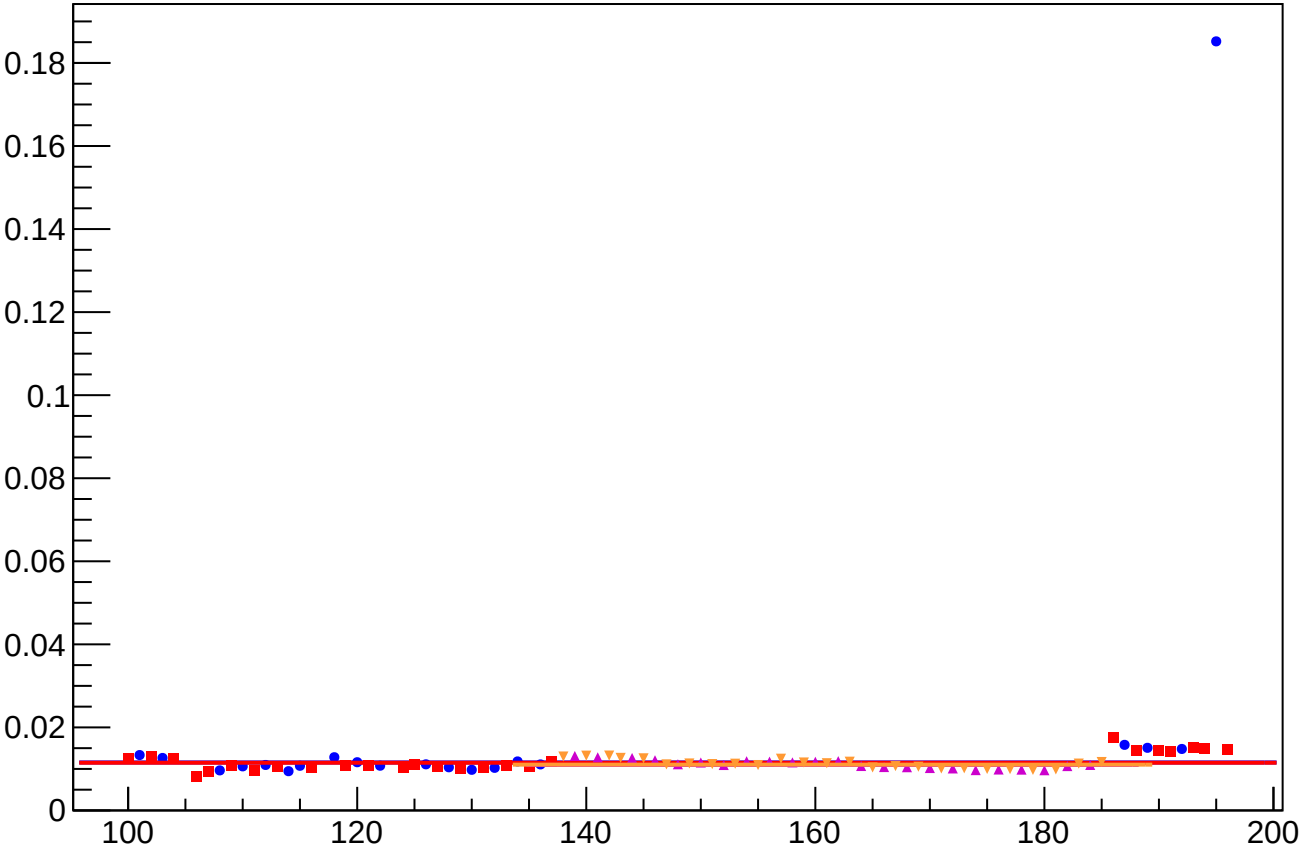
Right: 0.978+/-0.000 $\chi^2$/NDF: 7263011782.3/45

In: 0.768+/-0.000 $\chi^2$/NDF:10965081259.9/42

Out: 0.782+/-0.000 $\chi^2$/NDF:21367142549.9/50

All: 0.775+/-0.000 $\chi^2$/NDF: 32351640103.8/9

# yield_bpm0l09X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 1876961.2/19

Left Out: 0.011+/-0.000 $\chi^2$/NDF:299445.0/24

Right Out: 0.011+/-0.000 $\chi^2$/NDF: 648713.2/25

Left In: 0.011+/-0.000 $\chi^2$/NDF:287650.0/22

Left: 0.011+/-0.000 $\chi^2$/NDF: 587697.9/47

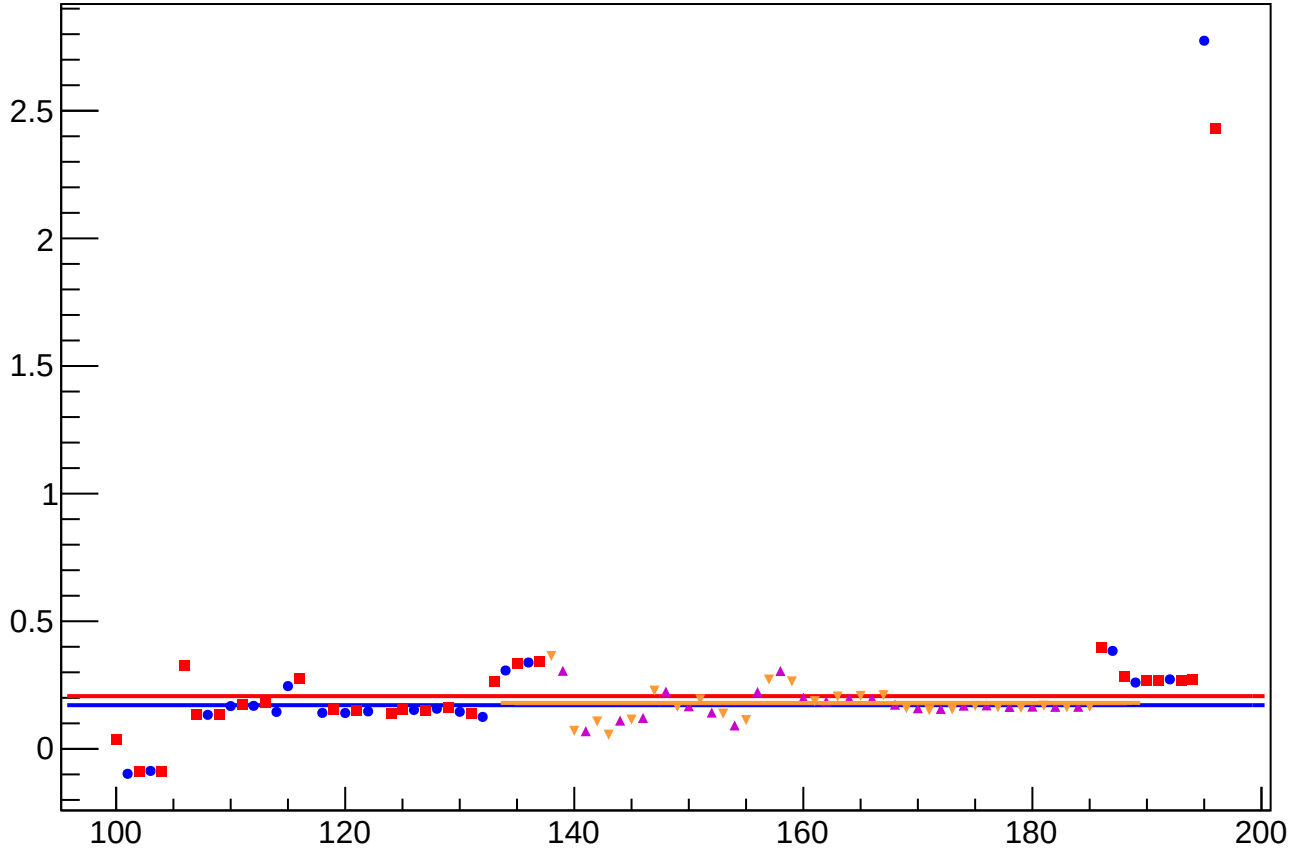
Right: 0.012+/-0.000 $\chi^2$/NDF: 2525995.1/45

In: 0.011+/-0.000 $\chi^2$/NDF:2195771.1/42

Out: 0.011+/-0.000 $\chi^2$/NDF:970662.4/50

All: 0.011+/-0.000 $\chi^2$/NDF: 3166851.6/93

# yield_bpm0l09Y_mean vs Slug, Sign Corrected




Right In: 0.171+/-0.000 $\chi^2$/NDF: 9293383151.0/19

Left Out: 0.180+/-0.000 $\chi^2$/NDF:6448853953.3/24

Right Out: 0.207+/-0.000 $\chi^2$/NDF: 18954198533.4/25

Left In: 0.177+/-0.000 $\chi^2$/NDF:4620854117.7/22

Left: 0.179+/-0.000 $\chi^2$/NDF: 11077549854.5/47

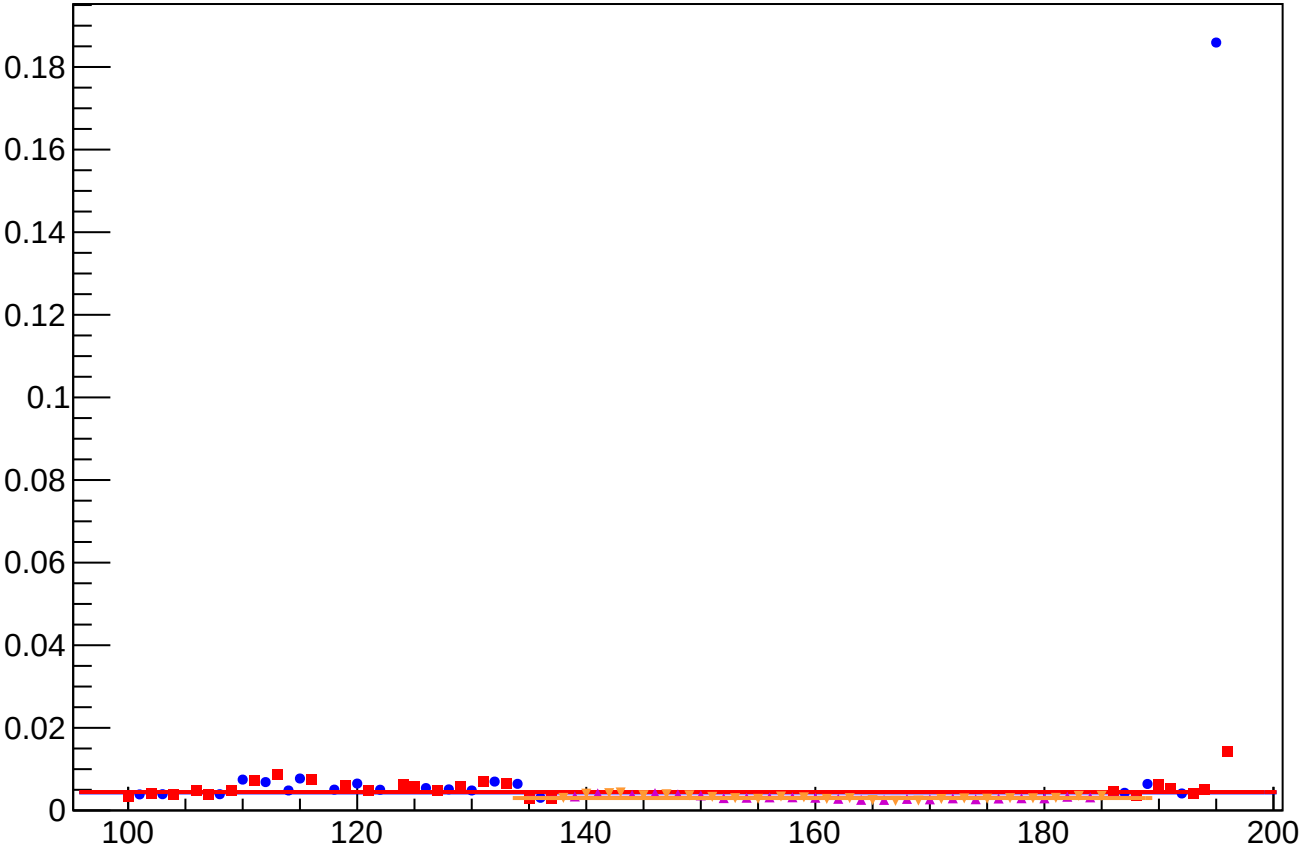
Right: 0.191+/-0.000 $\chi^2$/NDF: 28510204184.1/45

In: 0.176+/-0.000 $\chi^2$/NDF:13925593185.8/42

Out: 0.185+/-0.000 $\chi^2$/NDF:25666095935.9/50

All: 0.181+/-0.000 $\chi^2$/NDF: 39684328790.0/9

# yield_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 2662230.5/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:888350.2/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1620220.4/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:587459.6/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 1485282.4/47

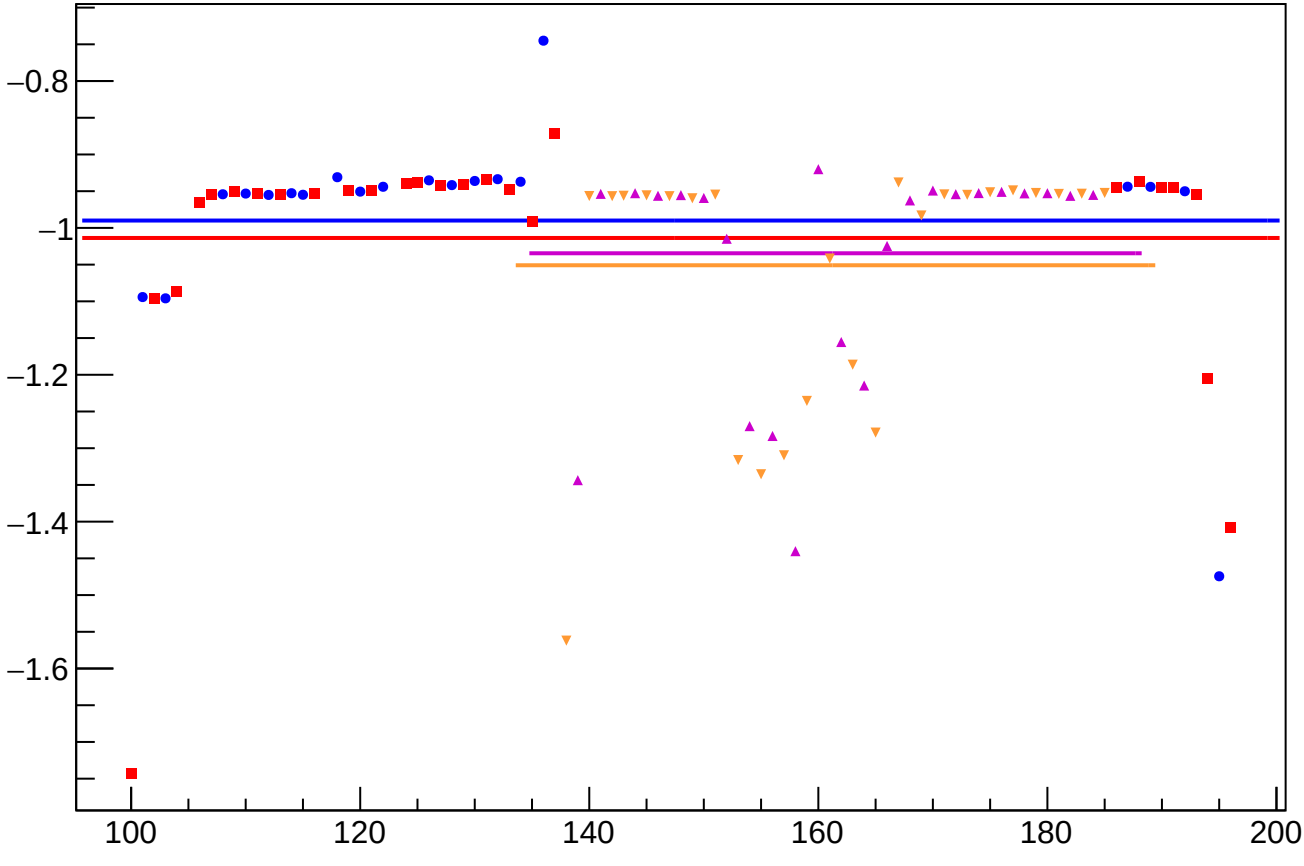
Right: 0.004+/-0.000 $\chi^2$/NDF: 4286190.7/45

In: 0.003+/-0.000 $\chi^2$/NDF:4306010.9/42

Out: 0.003+/-0.000 $\chi^2$/NDF:4103195.2/50

All: 0.003+/-0.000 $\chi^2$/NDF: 8410413.8/93

# yield_bpm0l10X_mean vs Slug, Sign Corrected




Right In: -0.990+/-0.000 $\chi^2$/NDF: 1706277253.1/19

Left Out: -1.051+/-0.000 $\chi^2$/NDF:5082084184.4/24

Right Out: -1.014+/-0.000 $\chi^2$/NDF: 1564933101.5/25

Left In: -1.035+/-0.000 $\chi^2$/NDF:3925761523.9/22

Left: -1.043+/-0.000 $\chi^2$/NDF: 9032853026.0/47

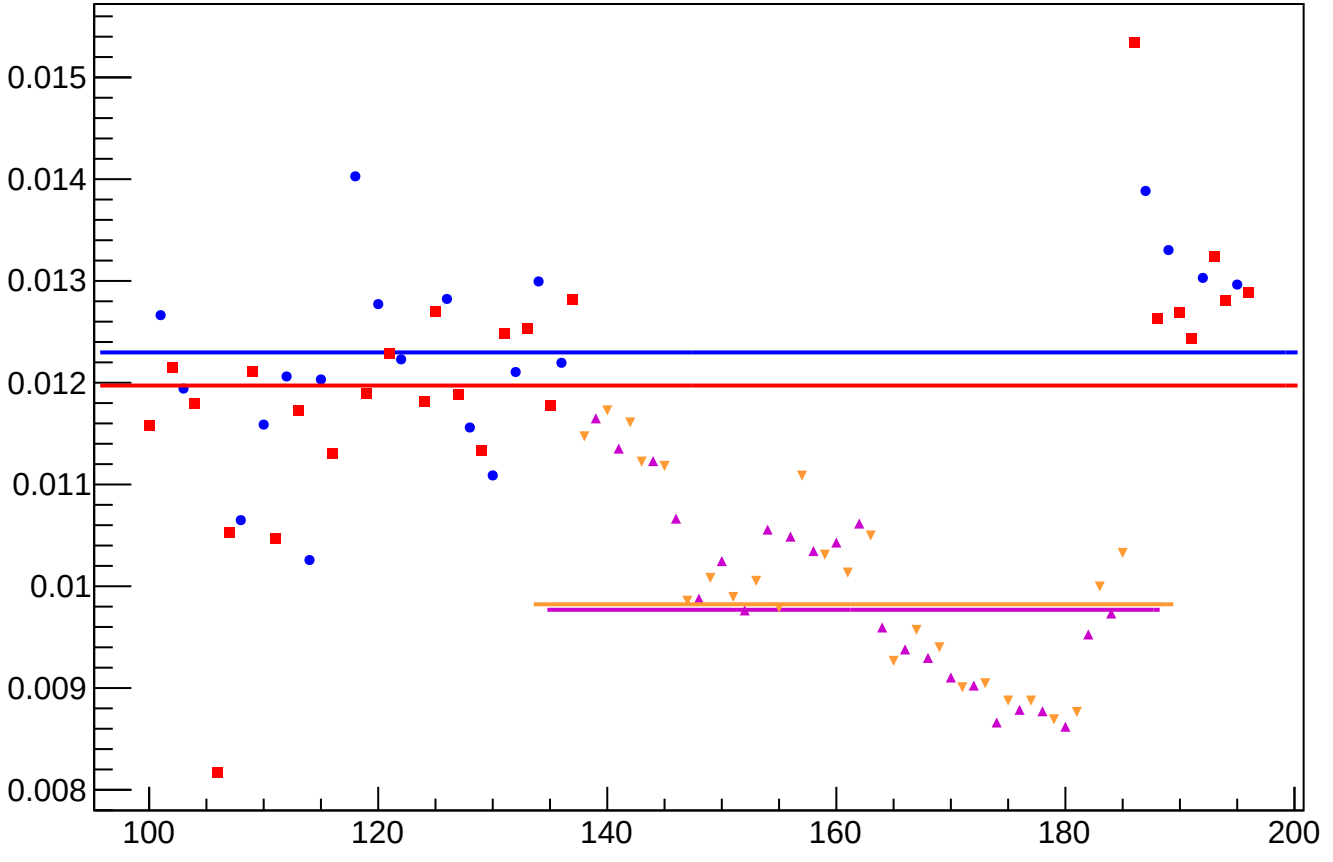
Right: -1.003+/-0.000 $\chi^2$/NDF: 3290886372.2/45

In: -1.023+/-0.000 $\chi^2$/NDF:5724000241.4/42

Out: -1.040+/-0.000 $\chi^2$/NDF:6725066134.0/50

All: -1.032+/-0.000 $\chi^2$/NDF: 12484597278.5/

# yield_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 0.012+/-0.000 $\chi^2$/NDF: 89342.3/19

Left Out: 0.010+/-0.000 $\chi^2$/NDF:293862.1/24

Right Out: 0.012+/-0.000 $\chi^2$/NDF: 249766.2/25

Left In: 0.010+/-0.000 $\chi^2$/NDF:281817.4/22

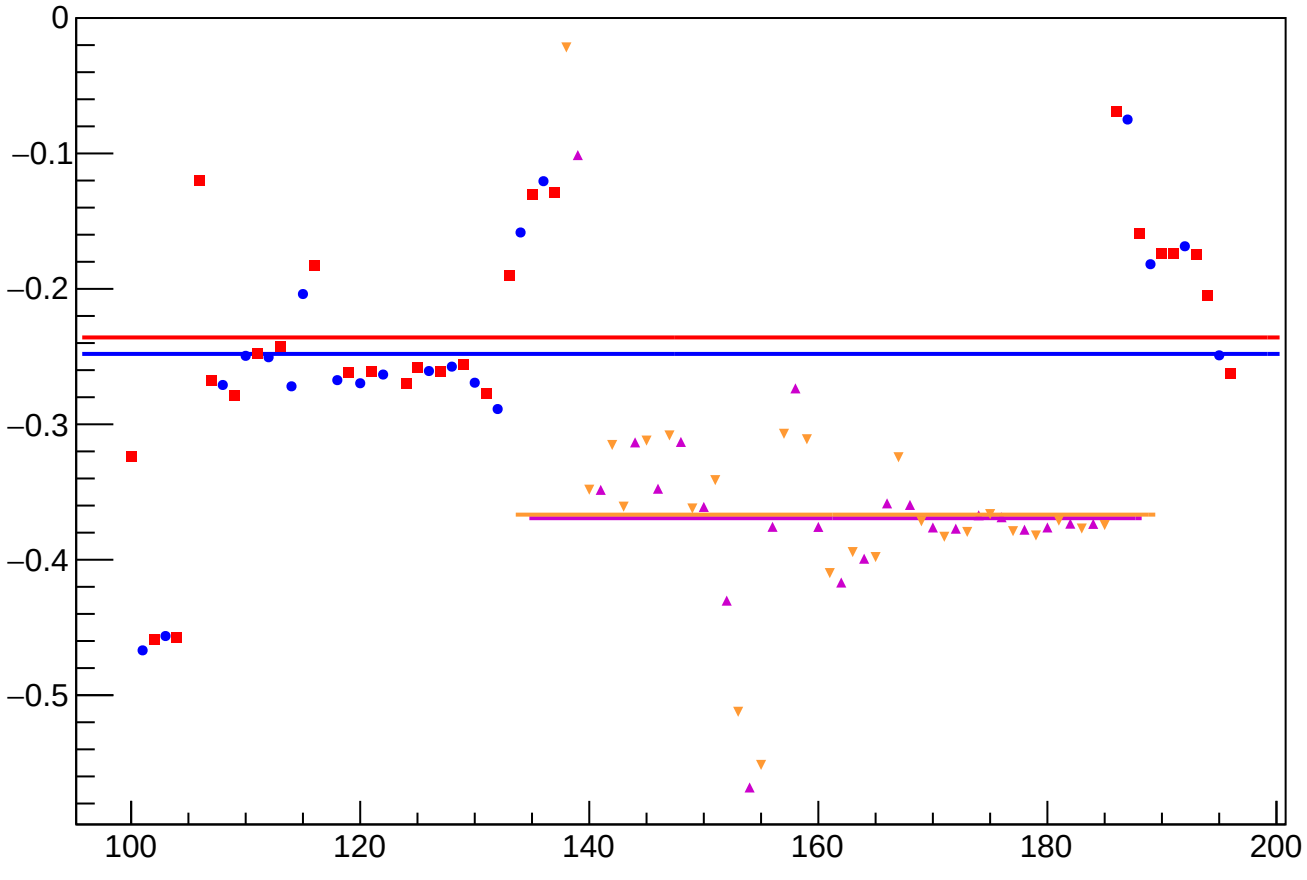
Left: 0.010+/-0.000 $\chi^2$/NDF: 576227.7/47

Right: 0.012+/-0.000 $\chi^2$/NDF: 346501.8/45

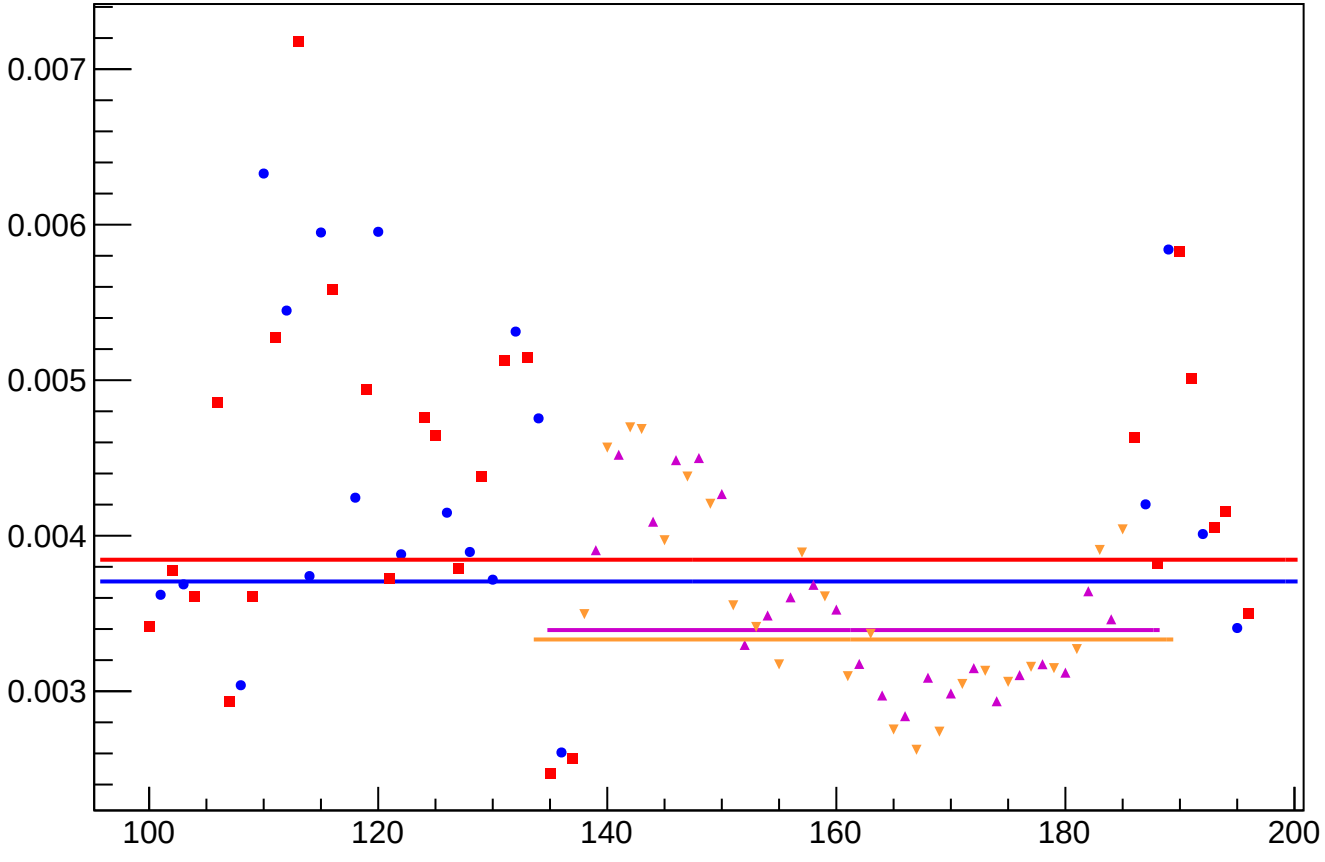
In: 0.010+/-0.000 $\chi^2$/NDF:963139.4/42

Out: 0.010+/-0.000 $\chi^2$/NDF:1065838.8/50

All: 0.010+/-0.000 $\chi^2$/NDF: 2029649.0/93


yield_bpm0l10Y_mean vs Slug, Sign Corrected
0
−0.1
−0.2
−0.3
−0.4
−0.5
100
120
140
160
180
200
Right In: -0.248+/-0.000 χ²/NDF: 6890714162.4/19
Left Out: -0.367+/-0.000 χ²/NDF:11945266102.2/24
Right Out: -0.236+/-0.000 χ²/NDF: 6710578642.3/25
Left In: -0.369+/-0.000 χ²/NDF:7581323027.3/22
Left: -0.368+/-0.000 χ²/NDF: 19531807890.3/47
Right: -0.241+/-0.000 χ²/NDF: 13648256184.7/45
In: -0.334+/-0.000 χ²/NDF:20637849174.7/42
Out: -0.327+/-0.000 χ²/NDF:26840917011.8/50
All: -0.330+/-0.000 χ²/NDF: 47530480974.9/

# yield_bpm0l10Y_rms vs Slug, Sign Corrected




Right In: 0.004+/-0.000 $\chi^2$/NDF: 894766.9/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:857705.2/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 1052696.3/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:633604.8/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 1496833.9/47

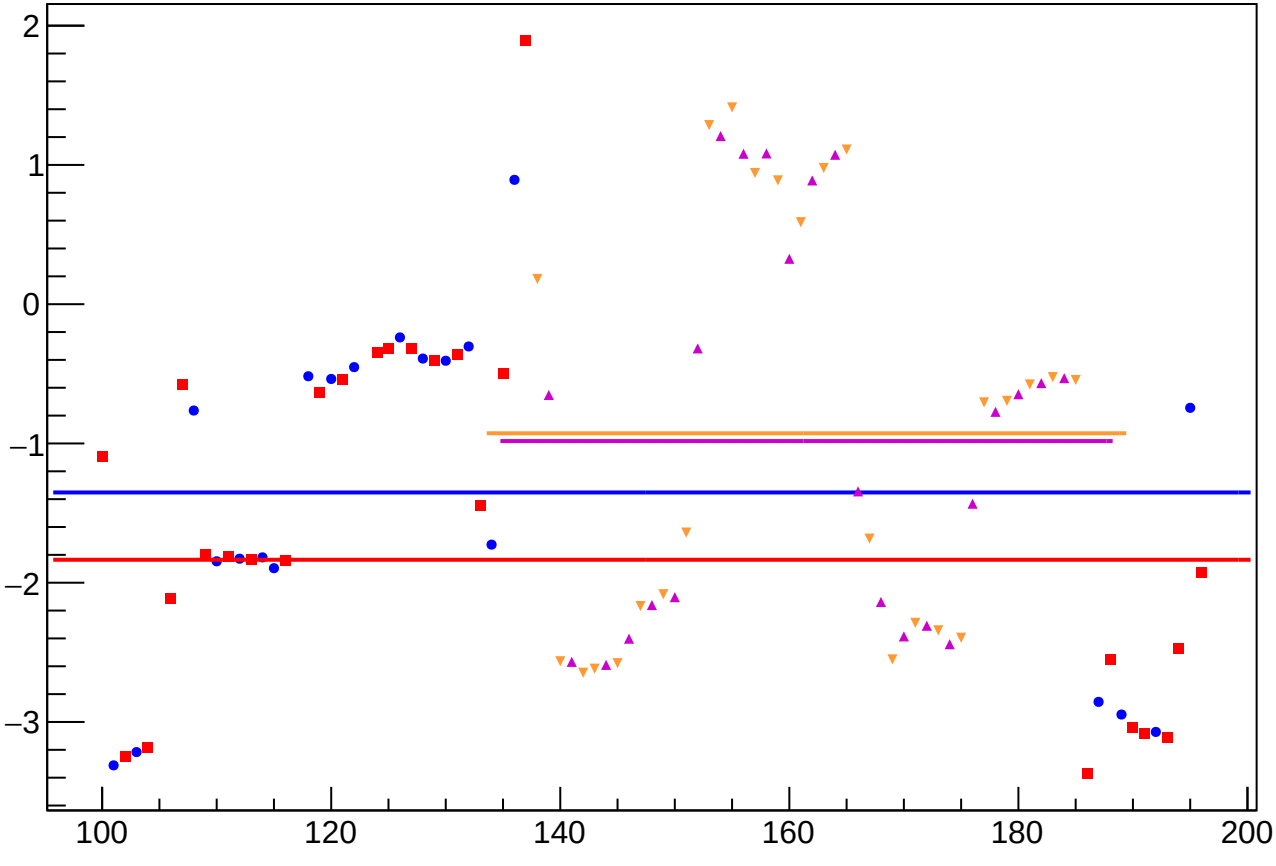
Right: 0.004+/-0.000 $\chi^2$/NDF: 1959869.6/45

In: 0.003+/-0.000 $\chi^2$/NDF:1610211.1/42

Out: 0.003+/-0.000 $\chi^2$/NDF:2161916.6/50

All: 0.003+/-0.000 $\chi^2$/NDF: 3772158.4/93

# yield_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -1.352+/-0.000 $\chi^2$/NDF: 3367252168.4/19

Left Out: -0.927+/-0.000 $\chi^2$/NDF:7248712470.7/24

Right Out: -1.835+/-0.000 $\chi^2$/NDF: 3019286902.6/25

Left In: -0.983+/-0.000 $\chi^2$/NDF:5918975536.0/22

Left: -0.954+/-0.000 $\chi^2$/NDF: 13173158507.1/47

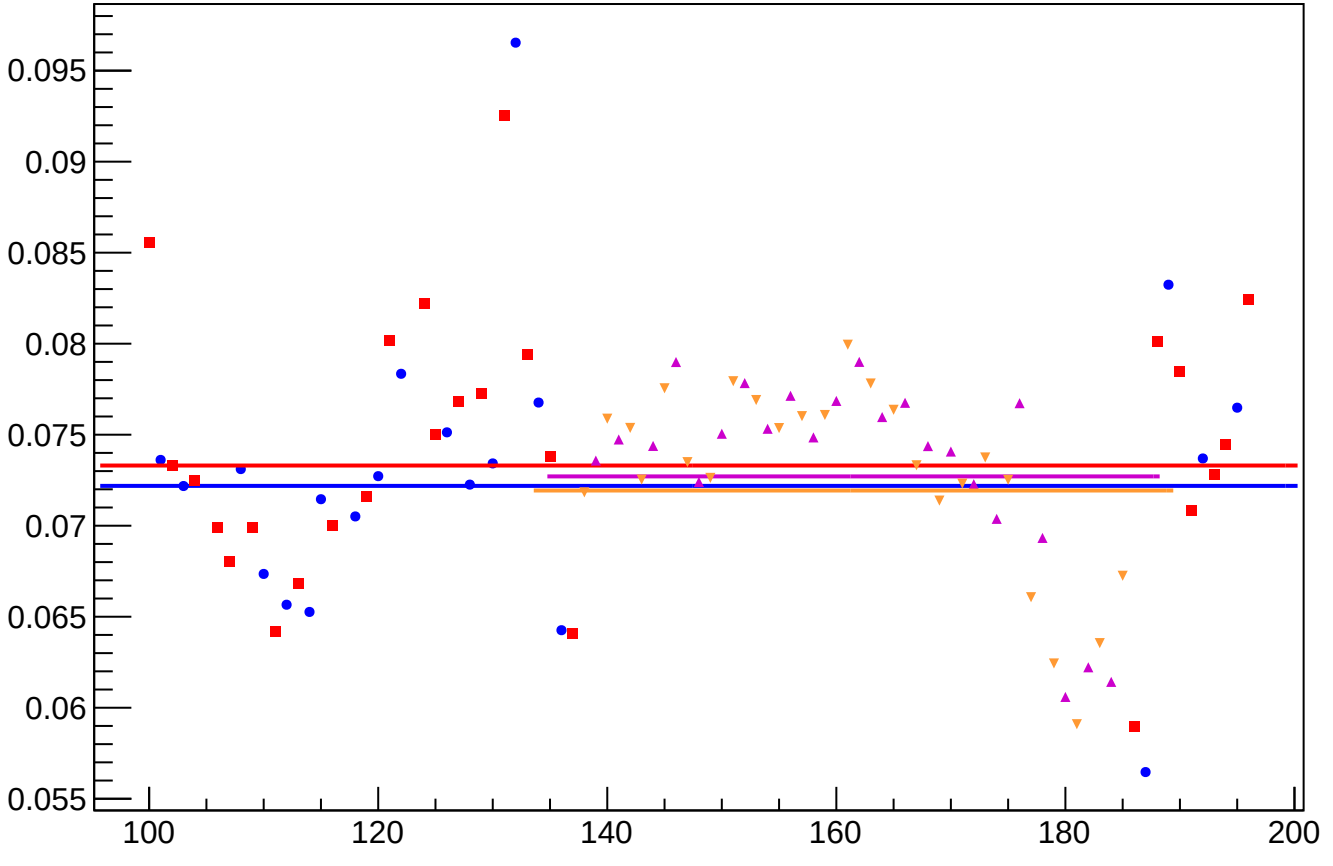
Right: -1.614+/-0.000 $\chi^2$/NDF: 6617956537.3/45

In: -1.112+/-0.000 $\chi^2$/NDF:9447848321.0/42

Out: -1.264+/-0.000 $\chi^2$/NDF:11391128774.5/50

All: -1.192+/-0.000 $\chi^2$/NDF: 20902891500.5/

# yield_bpm0r03X_rms vs Slug, Sign Corrected




Right In: 0.072+/-0.000 $\chi^2$/NDF: 154012.9/19

Left Out: 0.072+/-0.000 $\chi^2$/NDF:235534.6/24

Right Out: 0.073+/-0.000 $\chi^2$/NDF: 182514.0/25

Left In: 0.073+/-0.000 $\chi^2$/NDF:197009.2/22

Left: 0.072+/-0.000 $\chi^2$/NDF: 434657.5/47

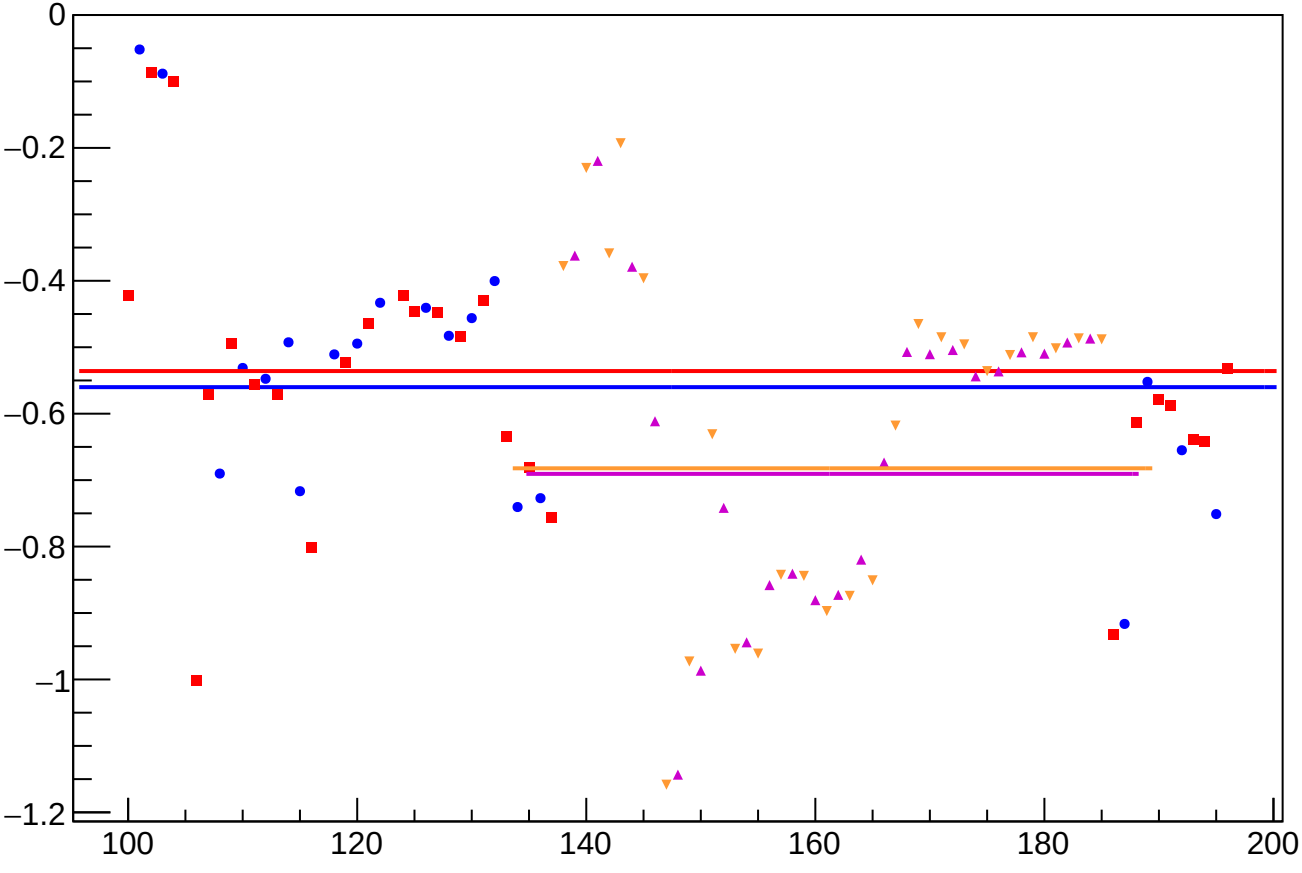
Right: 0.073+/-0.000 $\chi^2$/NDF: 339005.2/45

In: 0.073+/-0.000 $\chi^2$/NDF:351666.4/42

Out: 0.072+/-0.000 $\chi^2$/NDF:423175.7/50

All: 0.072+/-0.000 $\chi^2$/NDF: 774879.6/93

# yield_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: -0.560+/-0.000 $\chi^2$/NDF: 5162603655.5/19

Left Out: -0.682+/-0.000 $\chi^2$/NDF:21823342960.4/24

Right Out: -0.536+/-0.000 $\chi^2$/NDF: 4529029684.2/25

Left In: -0.691+/-0.000 $\chi^2$/NDF:16867819938.3/22

Left: -0.686+/-0.000 $\chi^2$/NDF: 38704767627.1/47

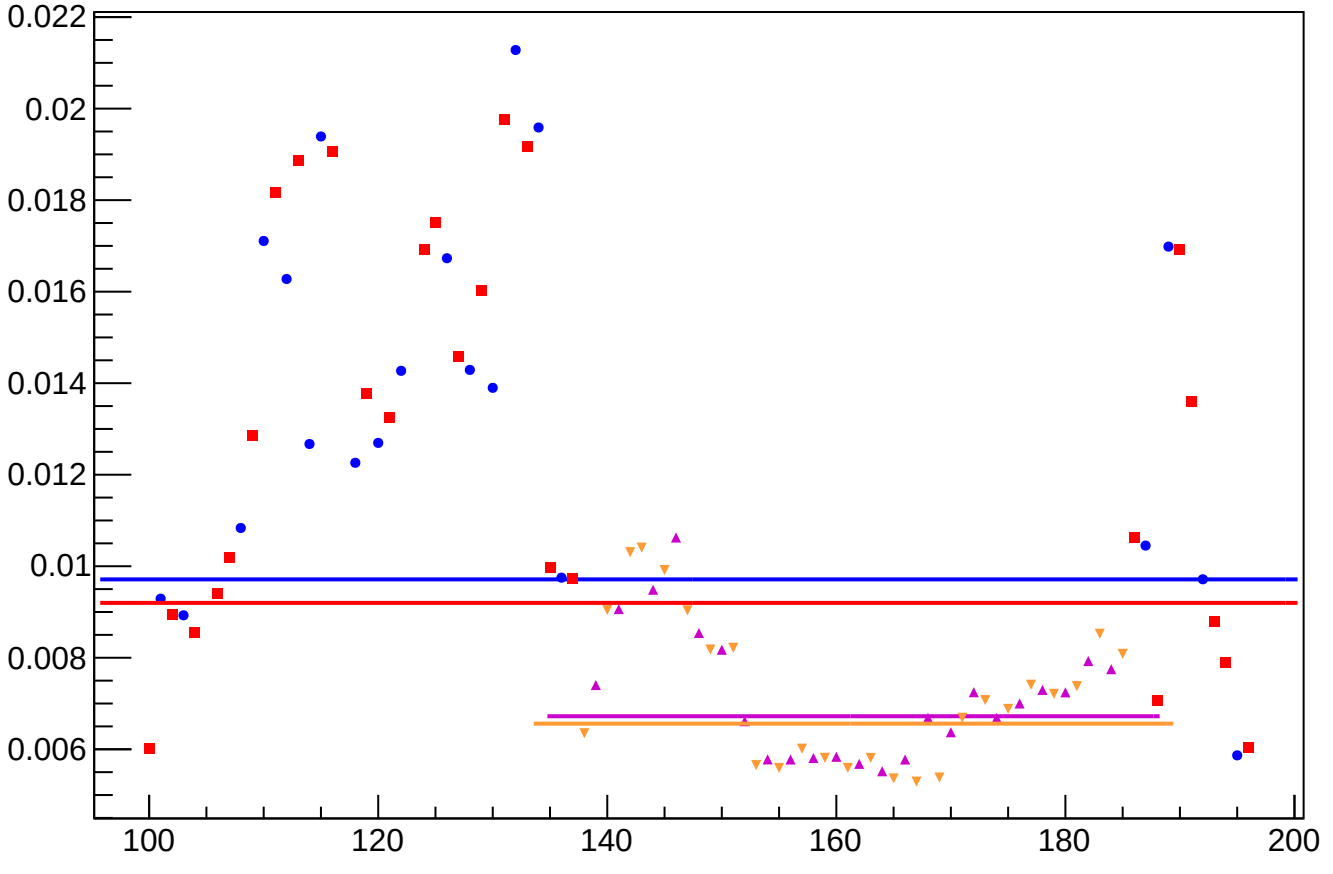
Right: -0.546+/-0.000 $\chi^2$/NDF: 9719358880.4/45

In: -0.667+/-0.000 $\chi^2$/NDF:23182023610.0/42

Out: -0.651+/-0.000 $\chi^2$/NDF:28212203941.3/50

All: -0.658+/-0.000 $\chi^2$/NDF: 51453201592.8/

# yield_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 0.010+/-0.000 $\chi^2$/NDF: 2029161.0/19

Left Out: 0.007+/-0.000 $\chi^2$/NDF:1404221.4/24

Right Out: 0.009+/-0.000 $\chi^2$/NDF: 2463816.4/25

Left In: 0.007+/-0.000 $\chi^2$/NDF:960755.3/22

Left: 0.007+/-0.000 $\chi^2$/NDF: 2375100.1/47

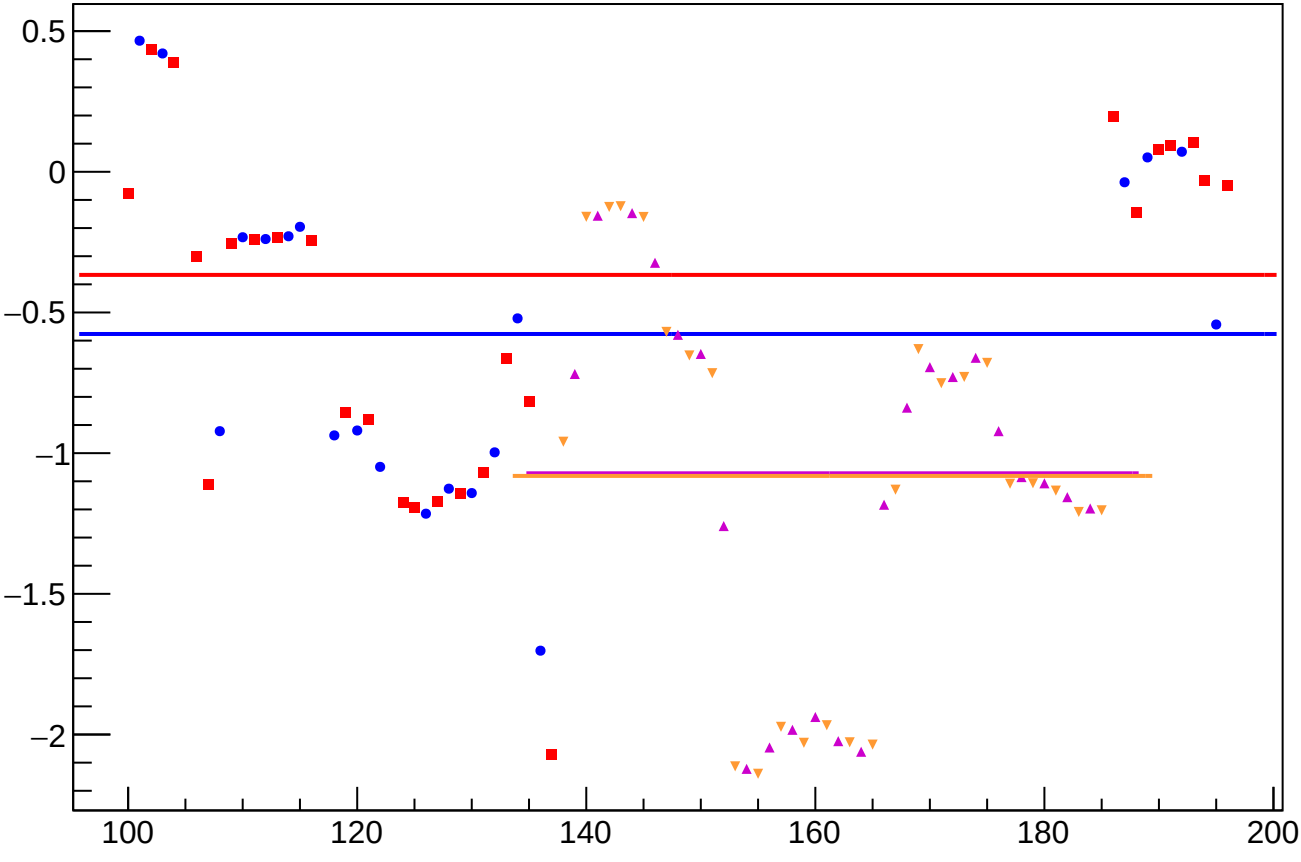
Right: 0.009+/-0.000 $\chi^2$/NDF: 4517933.5/45

In: 0.007+/-0.000 $\chi^2$/NDF:4199005.0/42

Out: 0.007+/-0.000 $\chi^2$/NDF:5076769.3/50

All: 0.007+/-0.000 $\chi^2$/NDF: 9286298.3/93

# yield_bpm0r05X_mean vs Slug, Sign Corrected




Right In: -0.576+/-0.000 $\chi^2$/NDF: 537715311.1/19

Left Out: -1.081+/-0.000 $\chi^2$/NDF:1152285460.9/24

Right Out: -0.366+/-0.000 $\chi^2$/NDF: 476484643.5/25

Left In: -1.072+/-0.000 $\chi^2$/NDF:975623531.2/22

Left: -1.076+/-0.000 $\chi^2$/NDF: 2128025374.6/47

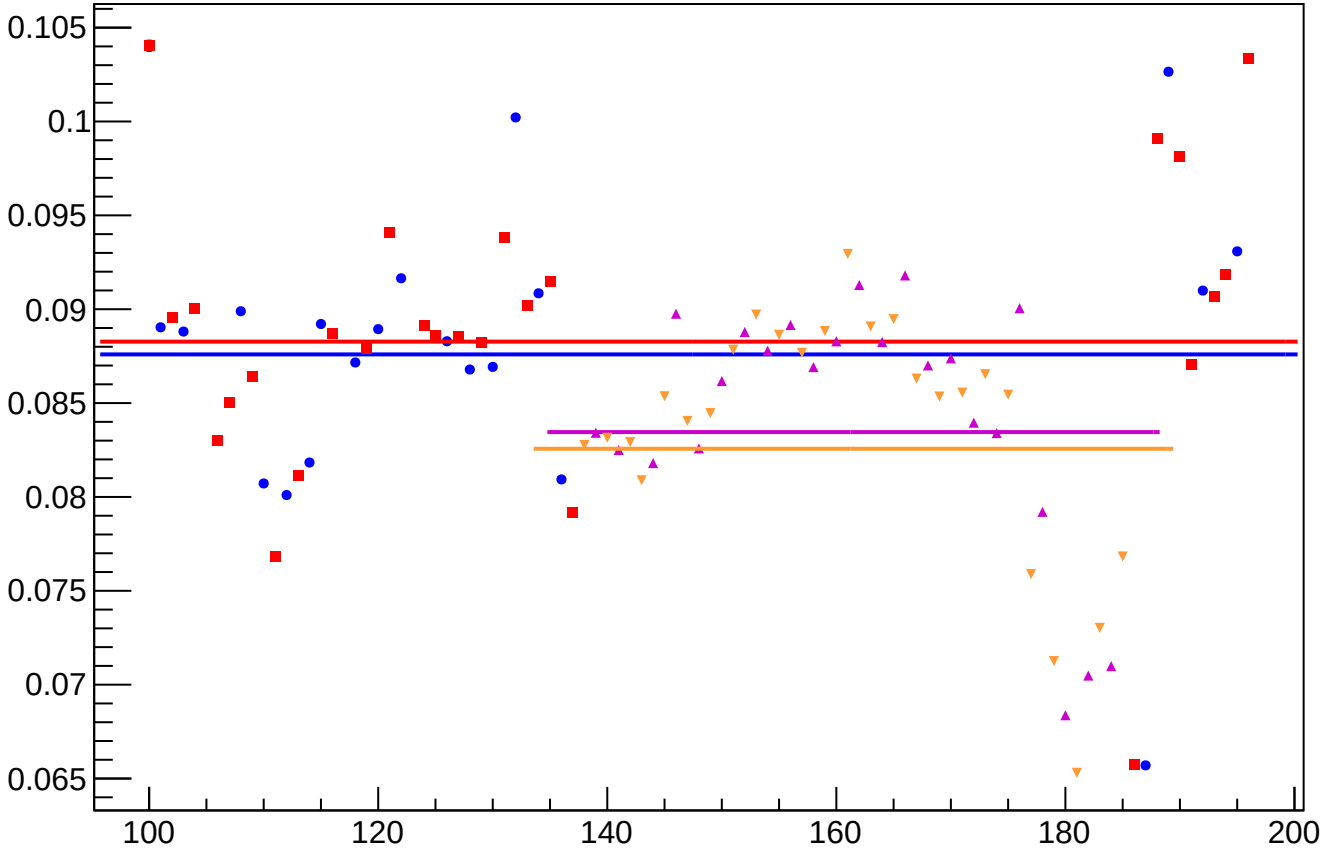
Right: -0.462+/-0.000 $\chi^2$/NDF: 1044580964.4/45

In: -0.910+/-0.000 $\chi^2$/NDF:1721683804.2/42

Out: -0.830+/-0.000 $\chi^2$/NDF:2130891473.4/50

All: -0.868+/-0.000 $\chi^2$/NDF: 3865421499.4/9

# yield_bpm0r05X_rms vs Slug, Sign Corrected




Right In: 0.088+/-0.000 $\chi^2$/NDF: 117651.1/19

Left Out: 0.083+/-0.000 $\chi^2$/NDF:291134.3/24

Right Out: 0.088+/-0.000 $\chi^2$/NDF: 212446.1/25

Left In: 0.083+/-0.000 $\chi^2$/NDF:238412.3/22

Left: 0.083+/-0.000 $\chi^2$/NDF: 531669.0/47

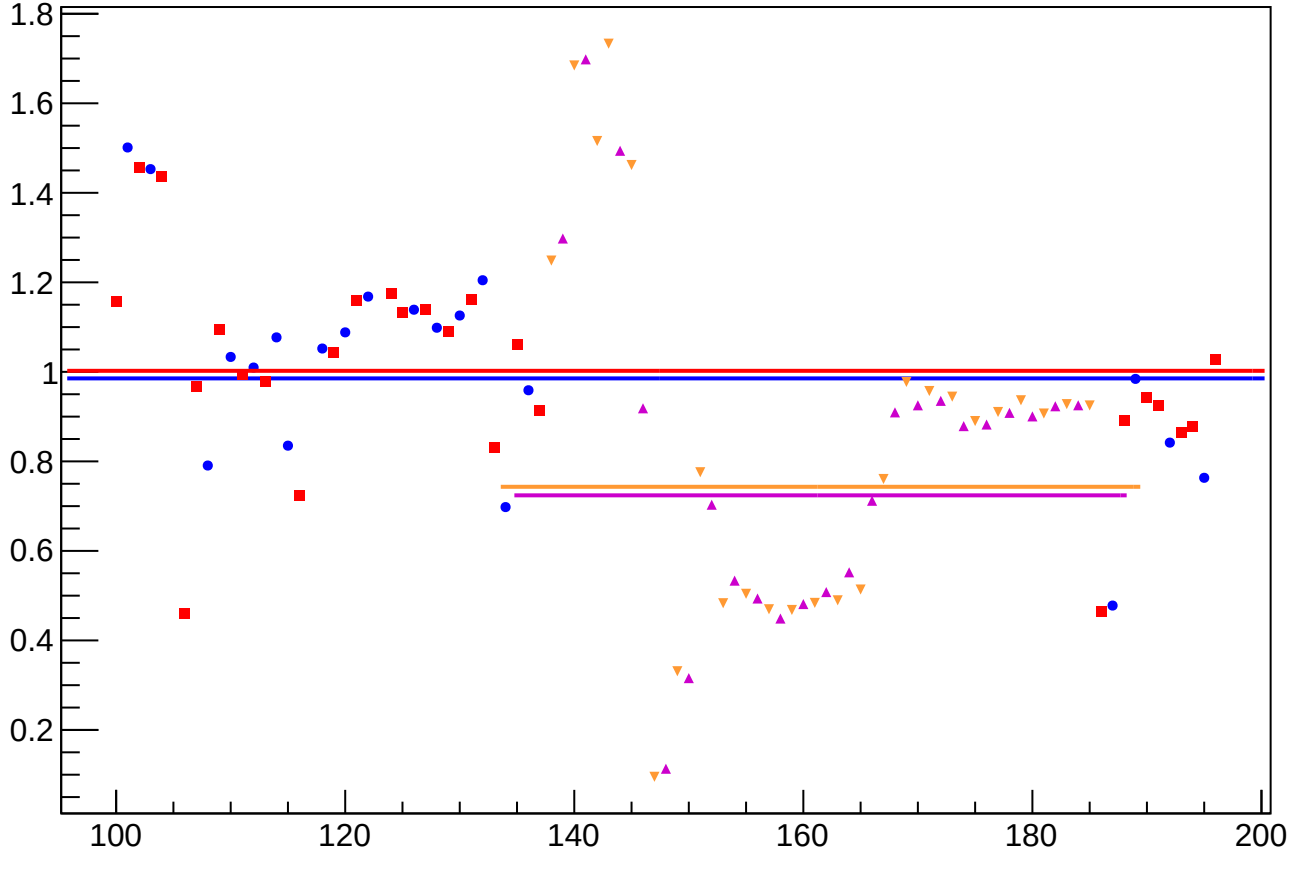
Right: 0.088+/-0.000 $\chi^2$/NDF: 330735.3/45

In: 0.085+/-0.000 $\chi^2$/NDF:385153.2/42

Out: 0.085+/-0.000 $\chi^2$/NDF:567613.8/50

All: 0.085+/-0.000 $\chi^2$/NDF: 953000.1/93

# yield_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 0.985+/-0.000 $\chi^2$/NDF: 2917848106.9/19

Left Out: 0.743+/-0.000 $\chi^2$/NDF:32581746516.6/24

Right Out: 1.002+/-0.000 $\chi^2$/NDF: 2766070179.3/25

Left In: 0.724+/-0.000 $\chi^2$/NDF:25654534031.9/22

Left: 0.734+/-0.000 $\chi^2$/NDF: 58283506093.5/47

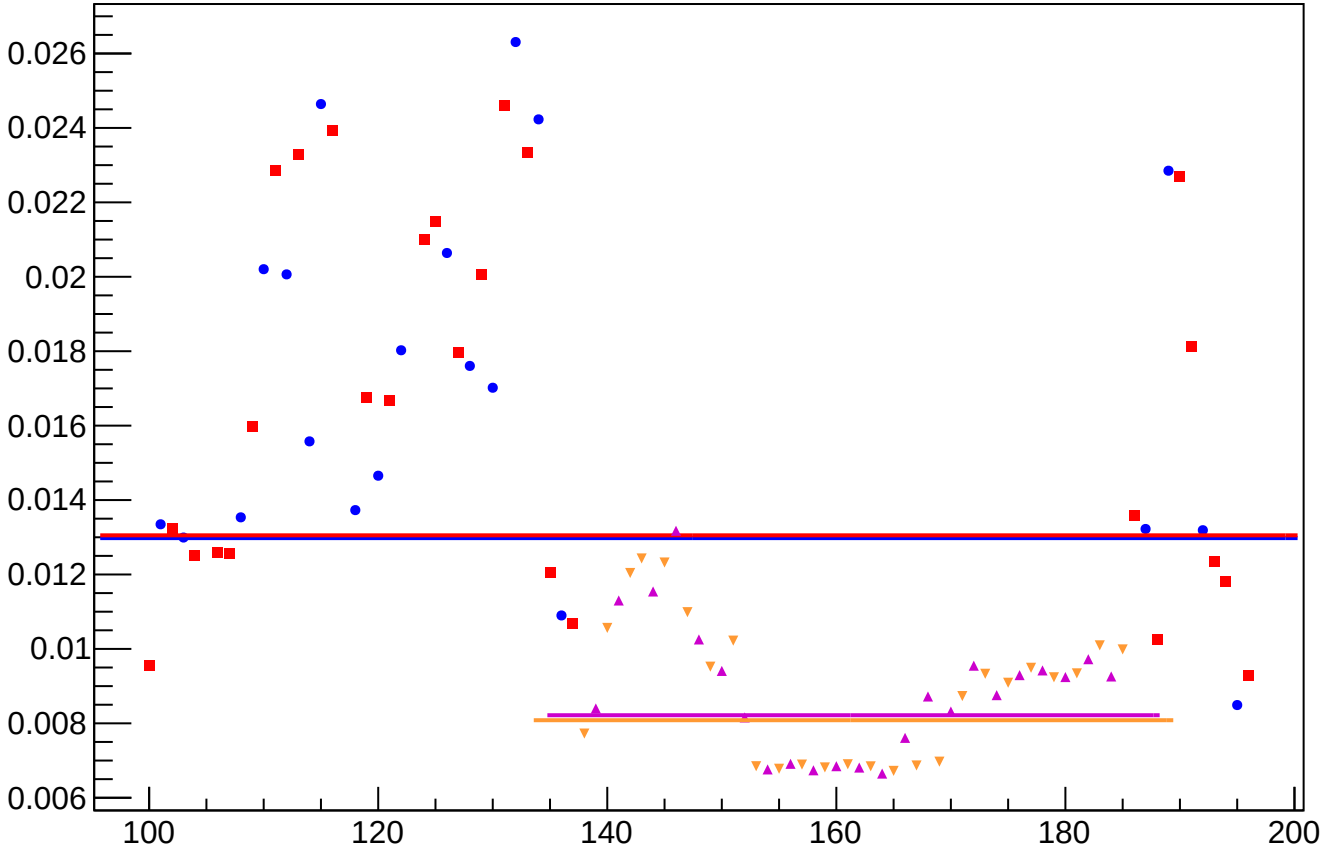
Right: 0.995+/-0.000 $\chi^2$/NDF: 5691368278.3/45

In: 0.766+/-0.000 $\chi^2$/NDF:31299633419.0/42

Out: 0.788+/-0.000 $\chi^2$/NDF:38523249699.4/50

All: 0.778+/-0.000 $\chi^2$/NDF: 69898963552.5/9

# yield_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 1514924.9/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:1406307.1/24

Right Out: 0.013+/-0.000 $\chi^2$/NDF: 1660524.1/25

Left In: 0.008+/-0.000 $\chi^2$/NDF:1127833.6/22

Left: 0.008+/-0.000 $\chi^2$/NDF: 2538791.6/47

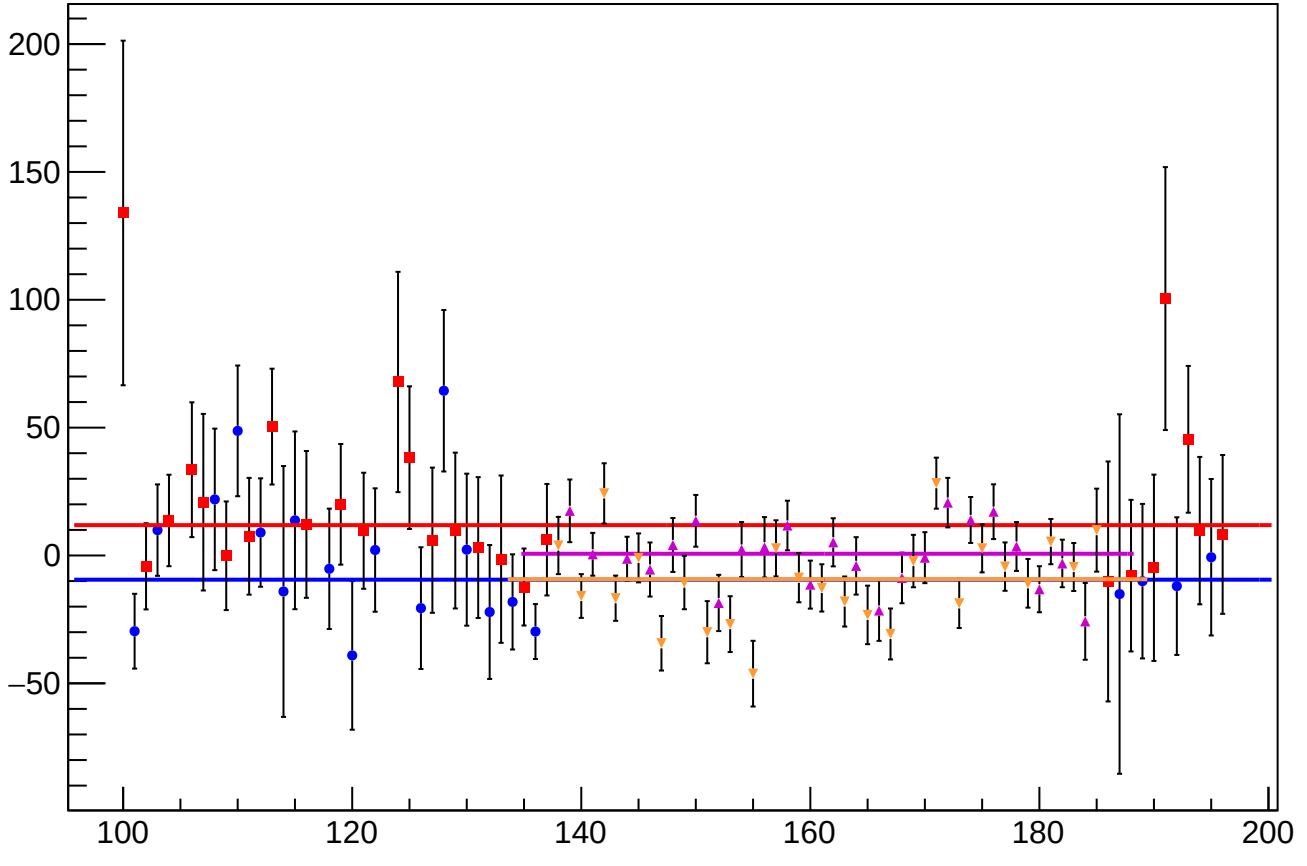
Right: 0.013+/-0.000 $\chi^2$/NDF: 3175741.1/45

In: 0.009+/-0.000 $\chi^2$/NDF:4452997.0/42

Out: 0.009+/-0.000 $\chi^2$/NDF:5402546.1/50

All: 0.009+/-0.000 $\chi^2$/NDF: 9855939.0/93

# diff_bpm4aX_mean vs Slug, Sign Corrected




Right In: -9.466+/-5.033 $\chi^2$/NDF: 22.0/19

Left Out: -9.292+/-2.031 $\chi^2$/NDF:61.1/24

Right Out: 11.869+/-5.046 $\chi^2$/NDF: 19.1/25

Left In: 0.676+/-2.104 $\chi^2$/NDF:29.4/22

Left: -4.485+/-1.461 $\chi^2$/NDF: 102.2/47

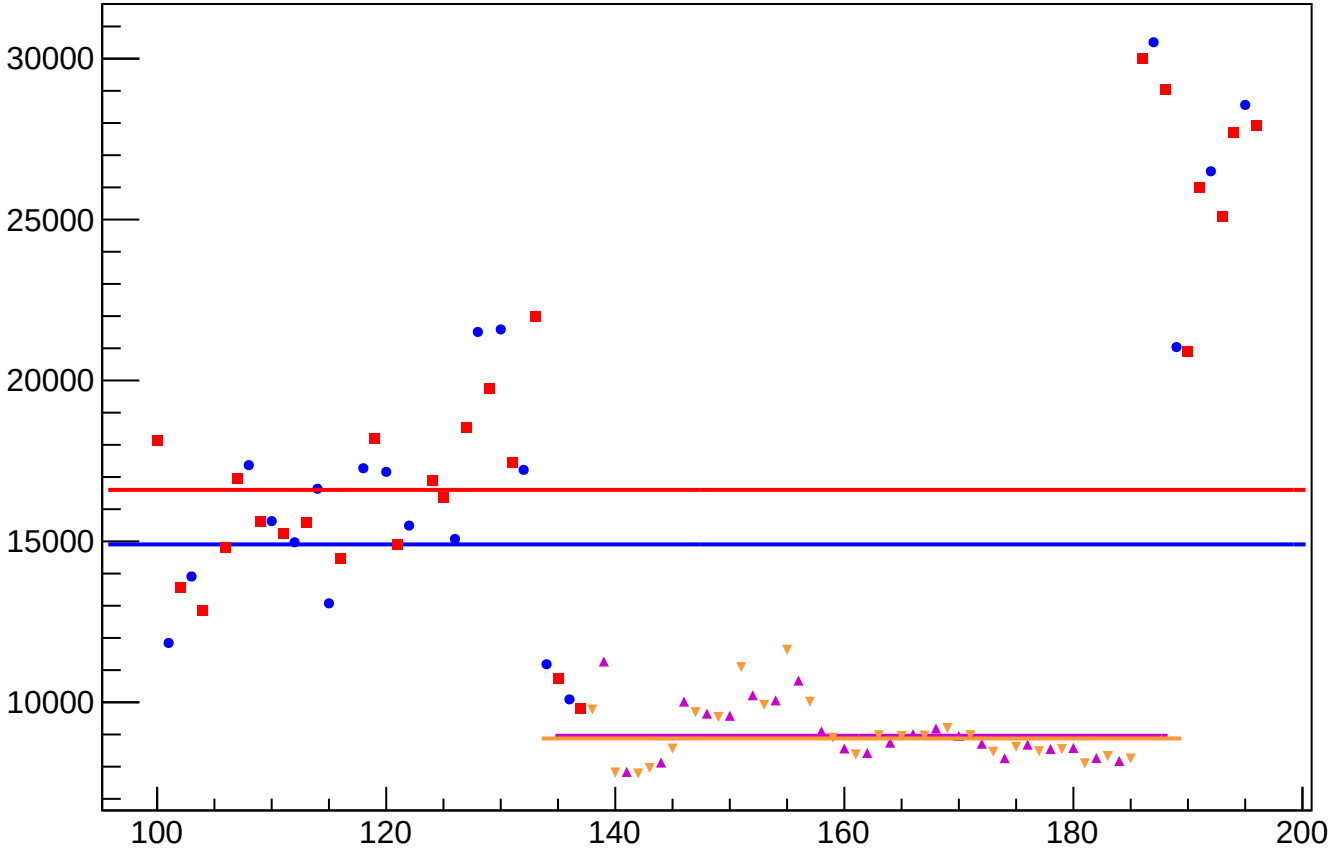
Right: 1.174+/-3.564 $\chi^2$/NDF: 50.1/45

In: -0.833+/-1.941 $\chi^2$/NDF:54.9/42

Out: -6.343+/-1.884 $\chi^2$/NDF:95.4/50

All: -3.671+/-1.352 $\chi^2$/NDF: 154.4/93

# diff_bpm4aX_rms vs Slug, Sign Corrected




Right In: 14906.607+/-3.559 $\chi^2$/NDF: 1789670.4/19

Left Out: 8875.623+/-1.436 $\chi^2$/NDF:346964.6/24

Right Out: 16600.241+/-3.568 $\chi^2$/NDF: 2141680.8/25

Left In: 8958.661+/-1.488 $\chi^2$/NDF:301724.6/22

Left: 8915.664+/-1.033 $\chi^2$/NDF: 650301.9/47

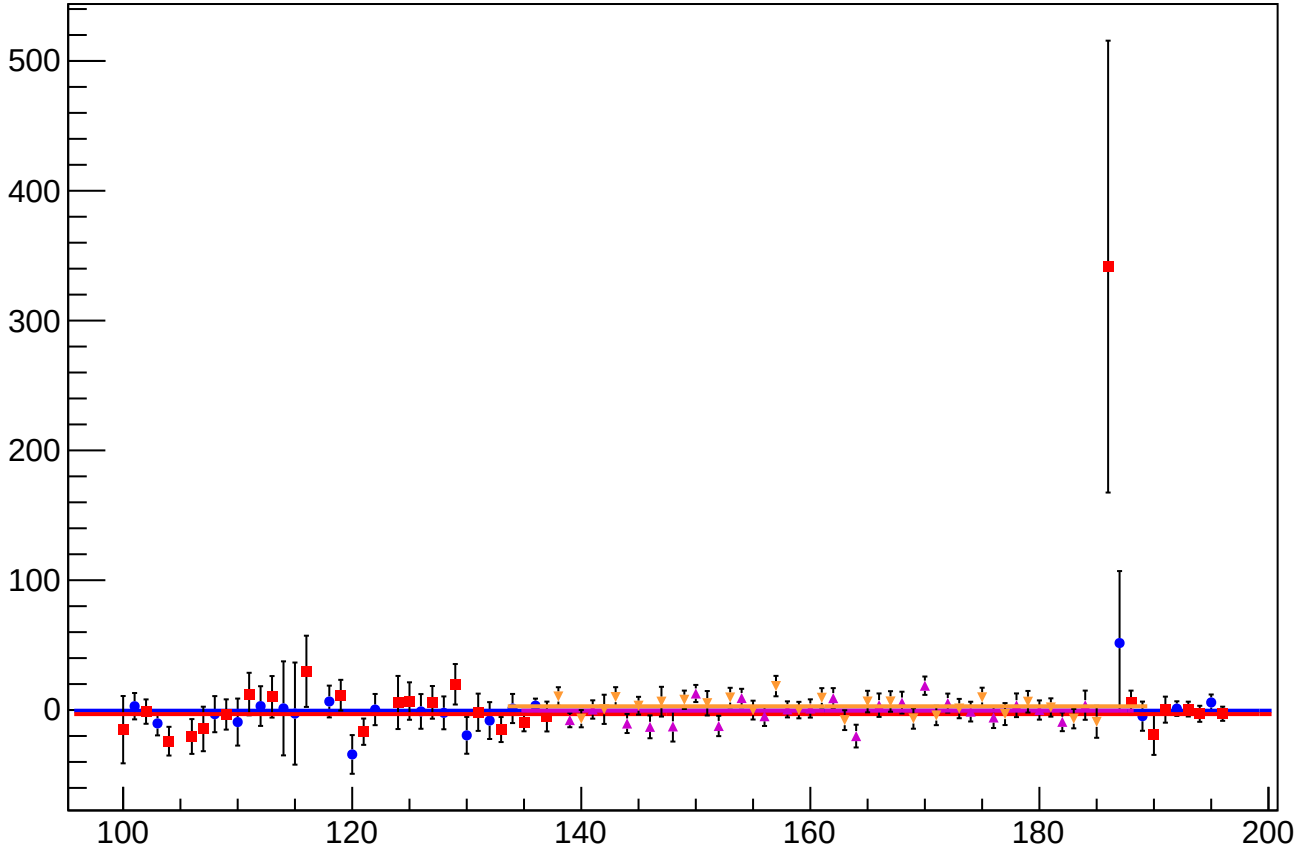
Right: 15751.262+/-2.520 $\chi^2$/NDF: 4044283.2/45

In: 9843.518+/-1.373 $\chi^2$/NDF:4468784.1/42

Out: 9952.120+/-1.332 $\chi^2$/NDF:6522087.2/50

All: 9899.453+/-0.956 $\chi^2$/NDF: 10994094.8/9

# diff_bpm4aY_mean vs Slug, Sign Corrected




Right In: -0.527+/-2.335 $\chi^2$/NDF: 11.8/19

Left Out: 2.879+/-1.554 $\chi^2$/NDF:19.5/24

Right Out: -3.153+/-2.041 $\chi^2$/NDF: 24.3/25

Left In: -0.456+/-1.581 $\chi^2$/NDF:32.8/22

Left: 1.241+/-1.108 $\chi^2$/NDF: 54.5/47

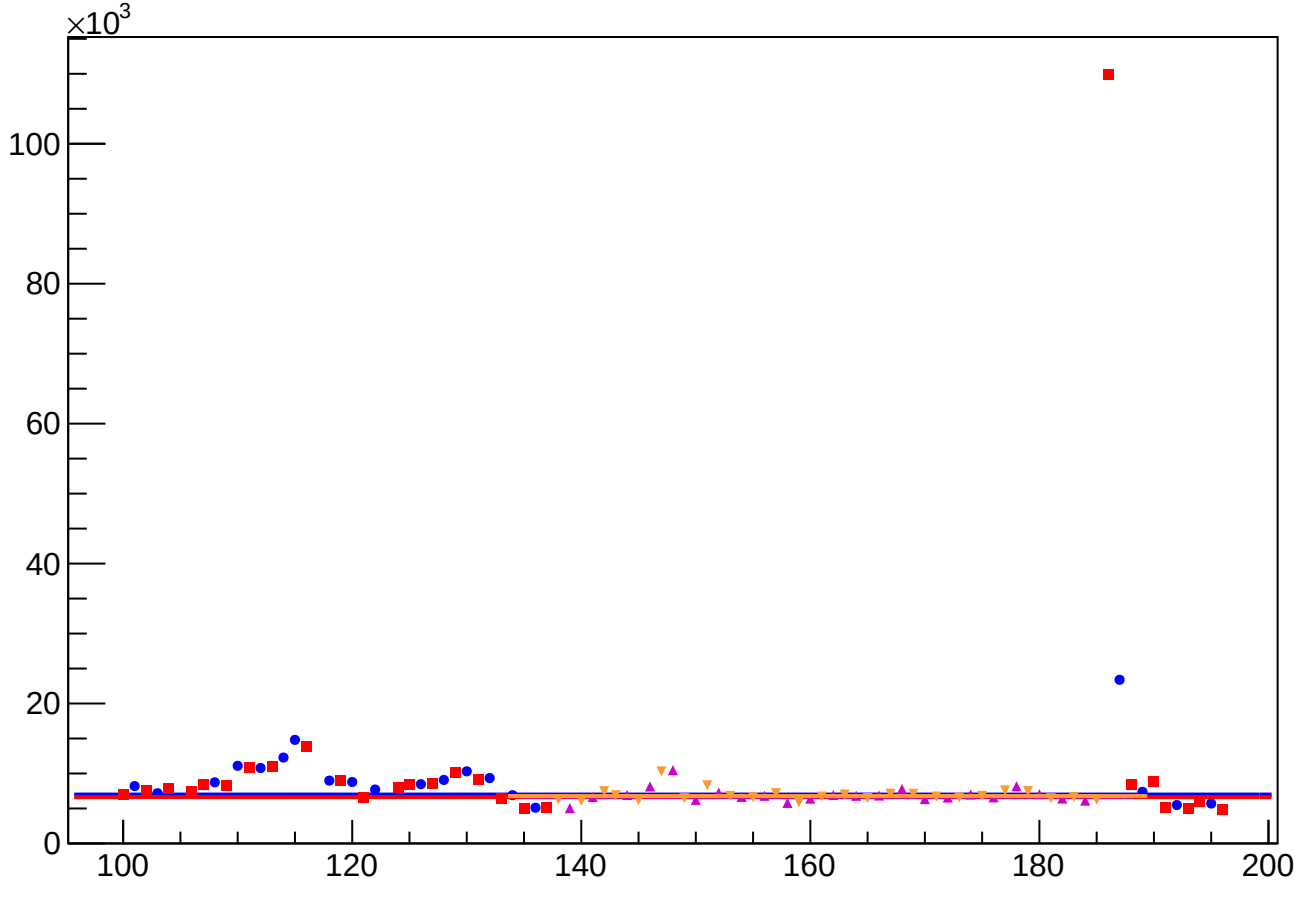
Right: -2.015+/-1.537 $\chi^2$/NDF: 36.8/45

In: -0.478+/-1.309 $\chi^2$/NDF:44.6/42

Out: 0.666+/-1.236 $\chi^2$/NDF:49.3/50

All: 0.127+/-0.899 $\chi^2$/NDF: 94.3/93

# diff_bpm4aY_rms vs Slug, Sign Corrected




Right In: 6986.148+/-1.651 $\chi^2$/NDF: 1386194.2/19

Left Out: 6776.739+/-1.099 $\chi^2$/NDF:400166.7/24

Right Out: 6623.057+/-1.443 $\chi^2$/NDF: 2281253.5/25

Left In: 6689.550+/-1.118 $\chi^2$/NDF:620276.8/22

Left: 6733.914+/-0.784 $\chi^2$/NDF: 1023536.8/47

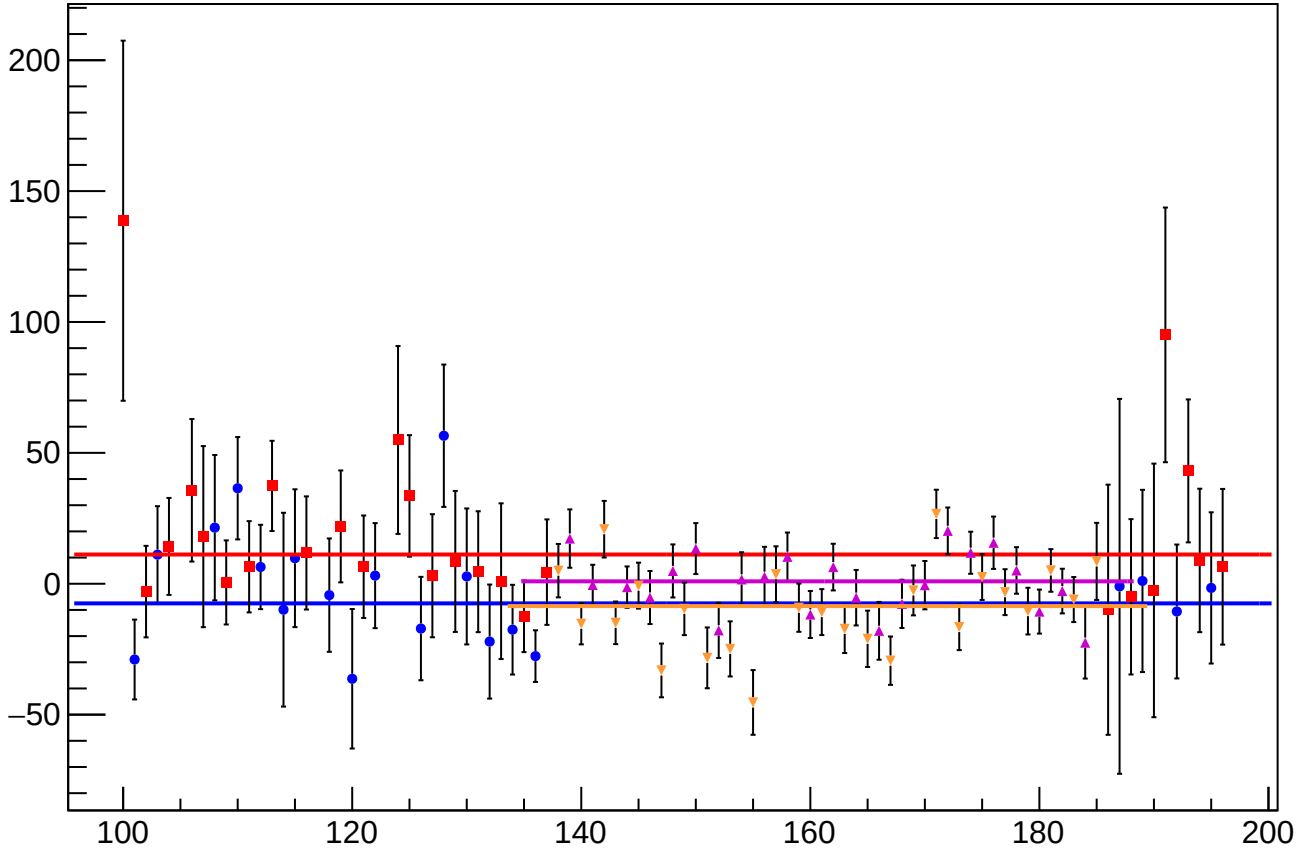
Right: 6780.345+/-1.086 $\chi^2$/NDF: 3694869.3/45

In: 6782.843+/-0.926 $\chi^2$/NDF:2028599.0/42

Out: 6720.349+/-0.874 $\chi^2$/NDF:2688599.5/50

All: 6749.805+/-0.636 $\chi^2$/NDF: 4719607.3/93

# diff_bpm4eX_mean vs Slug, Sign Corrected




Right In: -7.500+/-4.559 $\chi^2$/NDF: 22.8/19

Left Out: -8.536+/-1.897 $\chi^2$/NDF:61.9/24

Right Out: 11.165+/-4.521 $\chi^2$/NDF: 18.9/25

Left In: 0.919+/-1.969 $\chi^2$/NDF:29.1/22

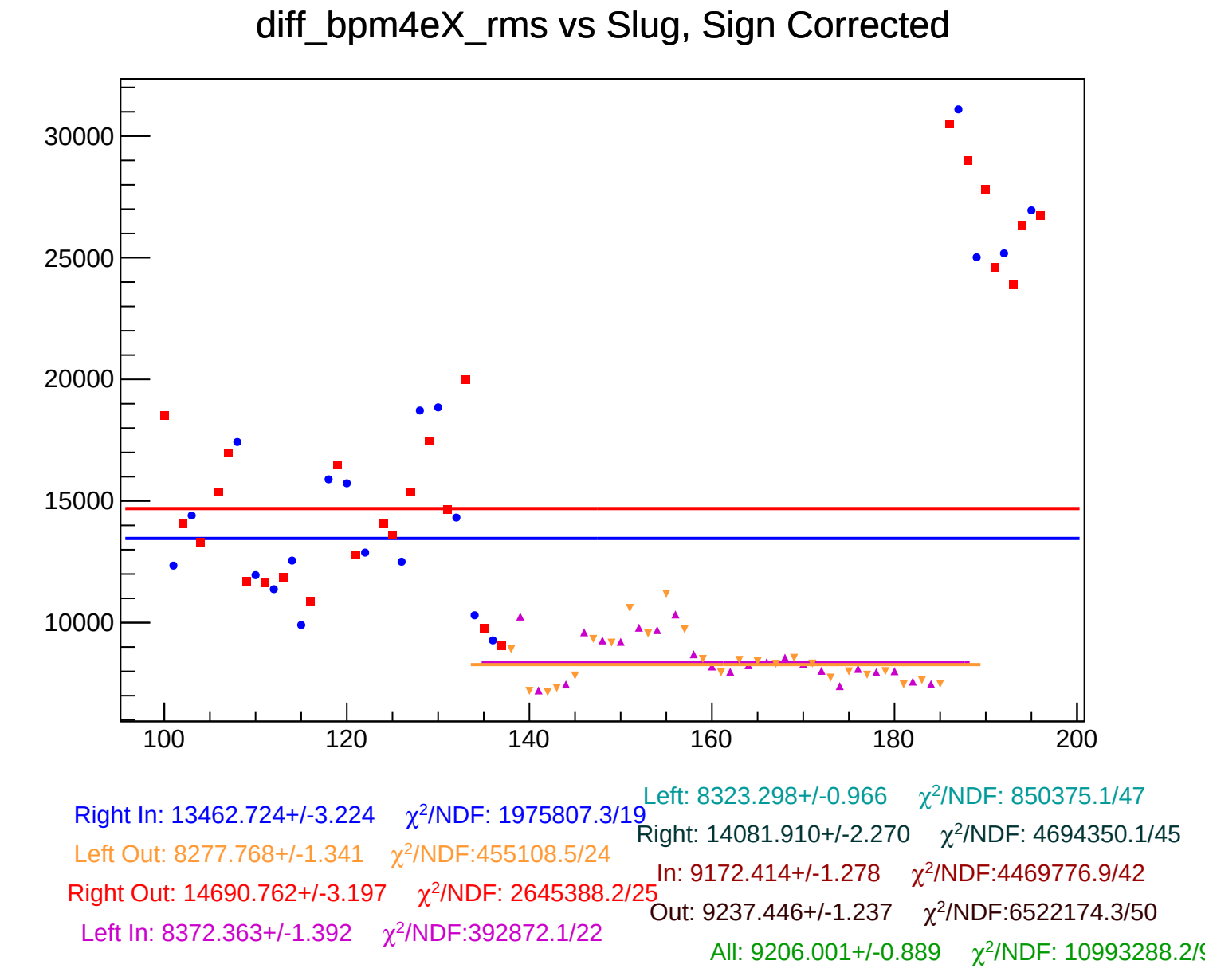
Left: -3.985+/-1.366 $\chi^2$/NDF: 103.0/47

Right: 1.911+/-3.210 $\chi^2$/NDF: 50.1/45

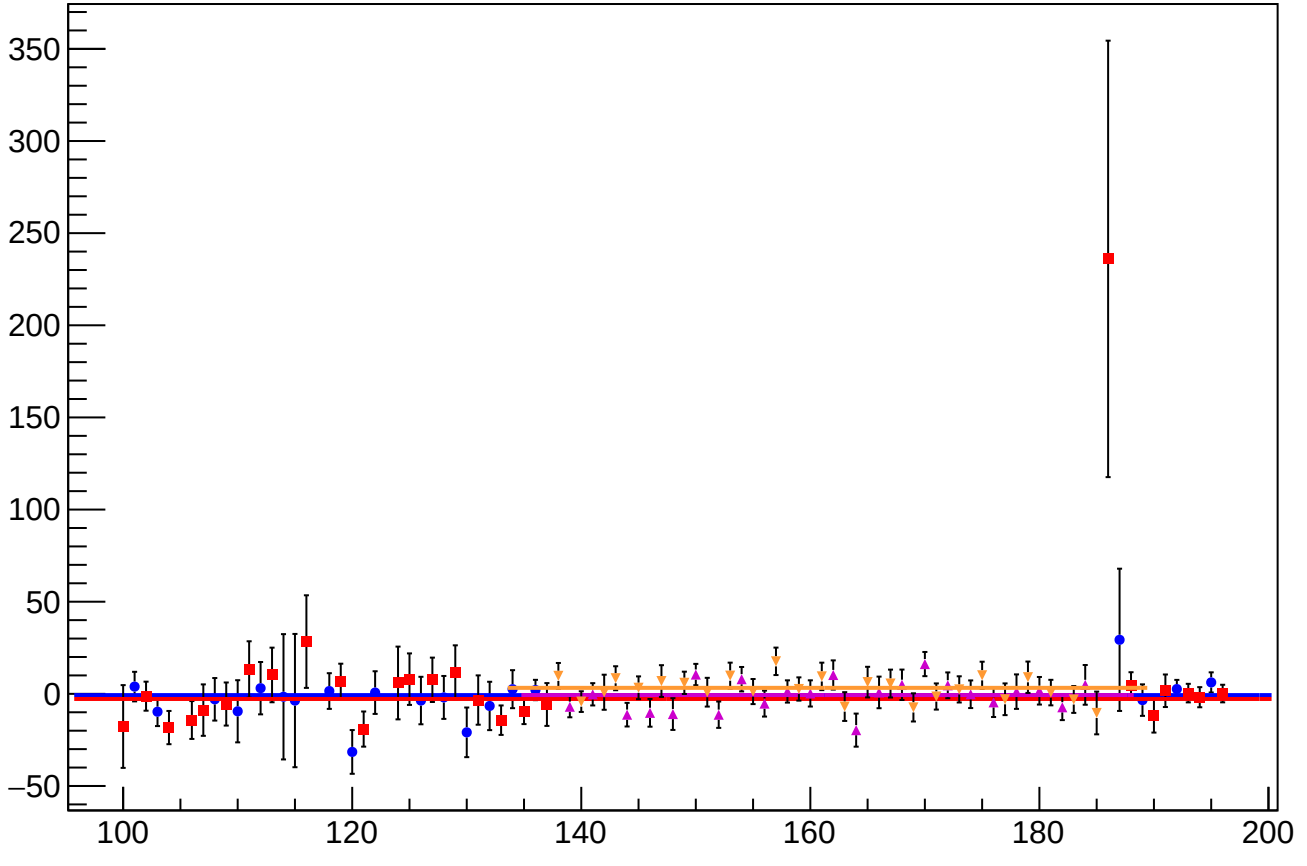
In: -0.404+/-1.808 $\chi^2$/NDF:54.8/42

Out: -5.588+/-1.749 $\chi^2$/NDF:97.0/50

All: -3.081+/-1.257 $\chi^2$/NDF: 156.0/93


diff_bpm4eX_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
100
120
140
160
180
200
Right In: 13462.724+/-3.224 χ²/NDF: 1975807.3/19
Left Out: 8277.768+/-1.341 χ²/NDF:455108.5/24
Right Out: 14690.762+/-3.197 χ²/NDF: 2645388.2/25
Left In: 8372.363+/-1.392 χ²/NDF:392872.1/22
Left: 8323.298+/-0.966 χ²/NDF: 850375.1/47
Right: 14081.910+/-2.270 χ²/NDF: 4694350.1/45
In: 9172.414+/-1.278 χ²/NDF:4469776.9/42
Out: 9237.446+/-1.237 χ²/NDF:6522174.3/50
All: 9206.001+/-0.889 χ²/NDF: 10993288.2/9

# diff_bpm4eY_mean vs Slug, Sign Corrected




Right In: -0.679+/-2.085 $\chi^2$/NDF: 14.5/19

Left Out: 3.255+/-1.457 $\chi^2$/NDF:17.6/24

Right Out: -2.779+/-1.785 $\chi^2$/NDF: 24.9/25

Left In: -0.645+/-1.499 $\chi^2$/NDF:30.8/22

Left: 1.360+/-1.045 $\chi^2$/NDF: 51.9/47

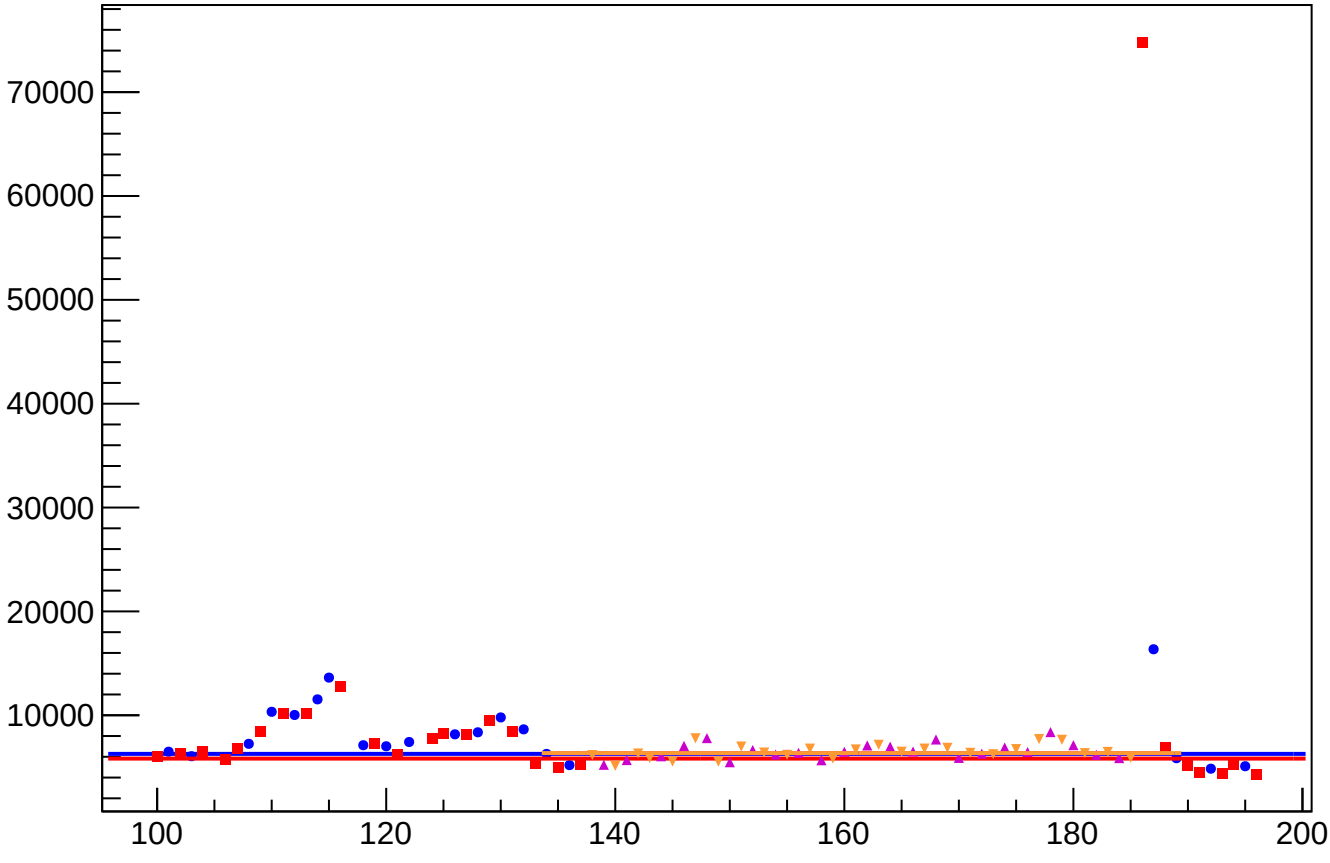
Right: -1.890+/-1.356 $\chi^2$/NDF: 40.0/45

In: -0.657+/-1.217 $\chi^2$/NDF:45.2/42

Out: 0.842+/-1.129 $\chi^2$/NDF:49.4/50

All: 0.149+/-0.828 $\chi^2$/NDF: 95.5/93

# diff_bpm4eY_rms vs Slug, Sign Corrected




Right In: 6280.747+/-1.474 $\chi^2$/NDF: 1228435.7/19

Left Out: 6357.608+/-1.030 $\chi^2$/NDF:414119.5/24

Right Out: 5827.094+/-1.262 $\chi^2$/NDF: 2247770.1/25

Left In: 6359.907+/-1.060 $\chi^2$/NDF:473875.4/22

Left: 6358.725+/-0.739 $\chi^2$/NDF: 887997.3/47

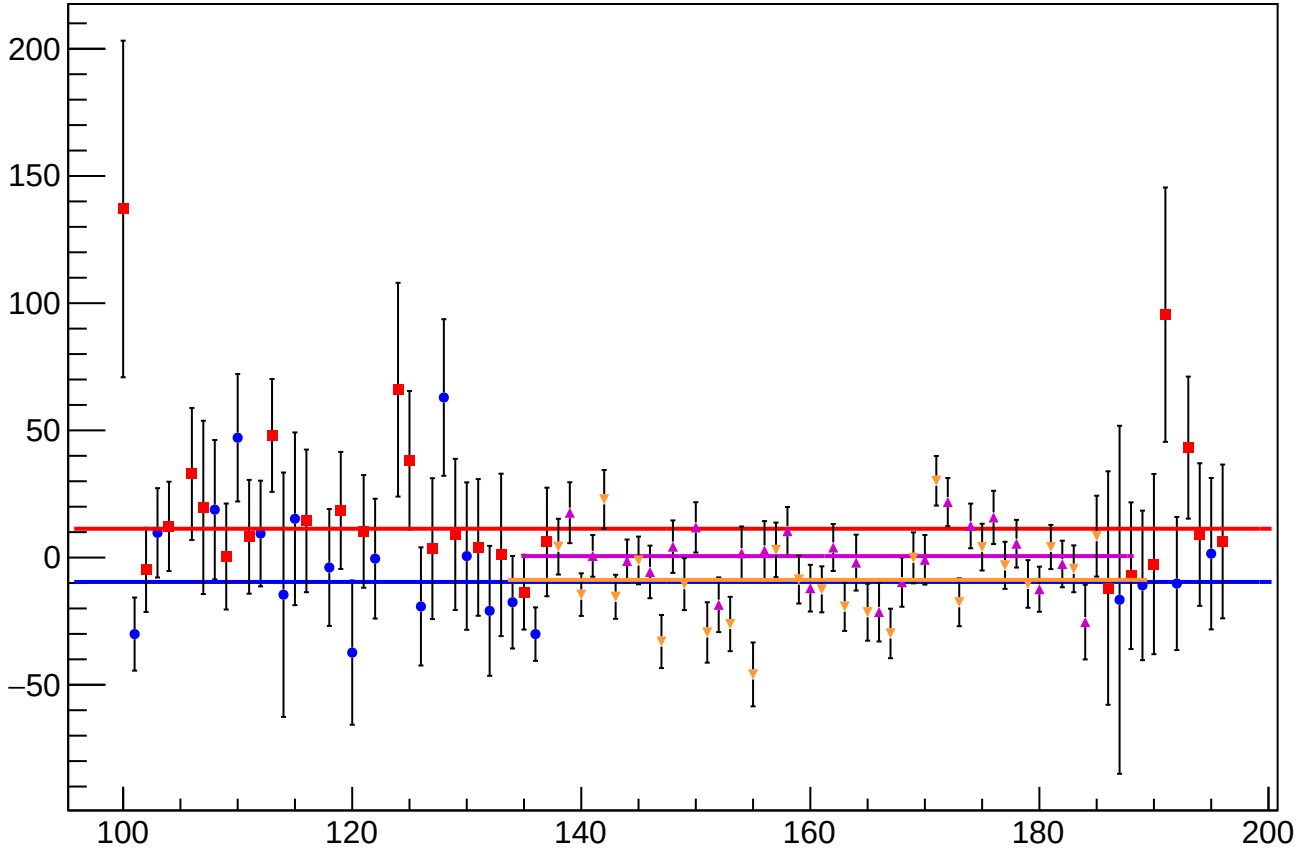
Right: 6019.053+/-0.959 $\chi^2$/NDF: 3530847.7/45

In: 6332.920+/-0.861 $\chi^2$/NDF:1704212.0/42

Out: 6145.499+/-0.798 $\chi^2$/NDF:2767880.4/50

All: 6232.169+/-0.585 $\chi^2$/NDF: 4497585.2/93

# diff_bpm4acX_mean vs Slug, Sign Corrected




Right In: -9.580+/-4.923 $\chi^2$/NDF: 22.2/19

Left Out: -8.767+/-1.987 $\chi^2$/NDF:62.7/24

Right Out: 11.335+/-4.935 $\chi^2$/NDF: 19.3/25

Left In: 0.579+/-2.059 $\chi^2$/NDF:29.6/22

Left: -4.260+/-1.430 $\chi^2$/NDF: 102.9/47

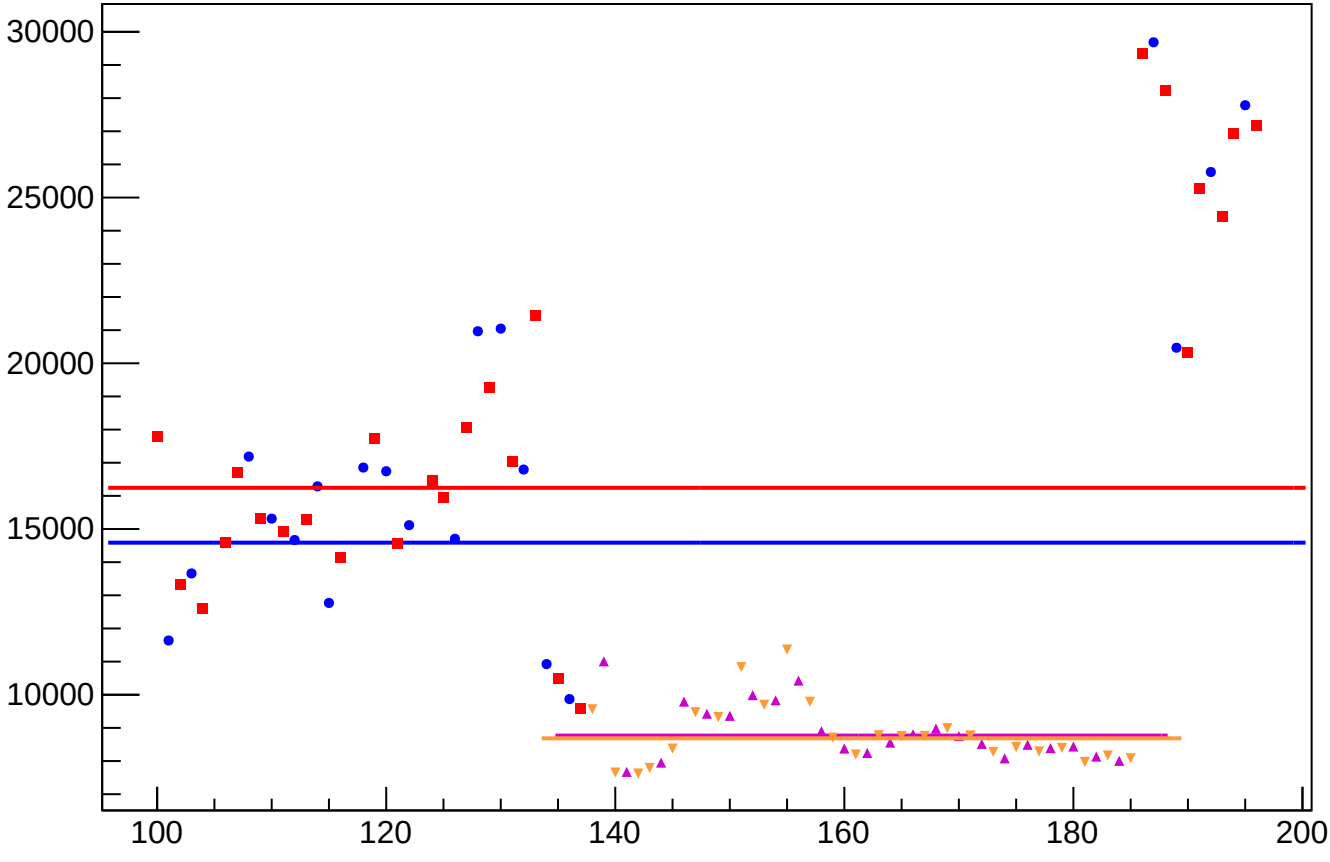
Right: 0.854+/-3.485 $\chi^2$/NDF: 50.5/45

In: -0.933+/-1.900 $\chi^2$/NDF:55.4/42

Out: -5.962+/-1.843 $\chi^2$/NDF:96.3/50

All: -3.524+/-1.323 $\chi^2$/NDF: 155.3/93

# diff_bpm4acX_rms vs Slug, Sign Corrected




Right In: 14588.959+/-3.481 $\chi^2$/NDF: 1770660.6/19

Left Out: 8686.048+/-1.405 $\chi^2$/NDF:340655.6/24

Right Out: 16243.918+/-3.489 $\chi^2$/NDF: 2112179.3/25

Left In: 8767.705+/-1.456 $\chi^2$/NDF:295552.8/22

Left: 8725.421+/-1.011 $\chi^2$/NDF: 637837.1/47

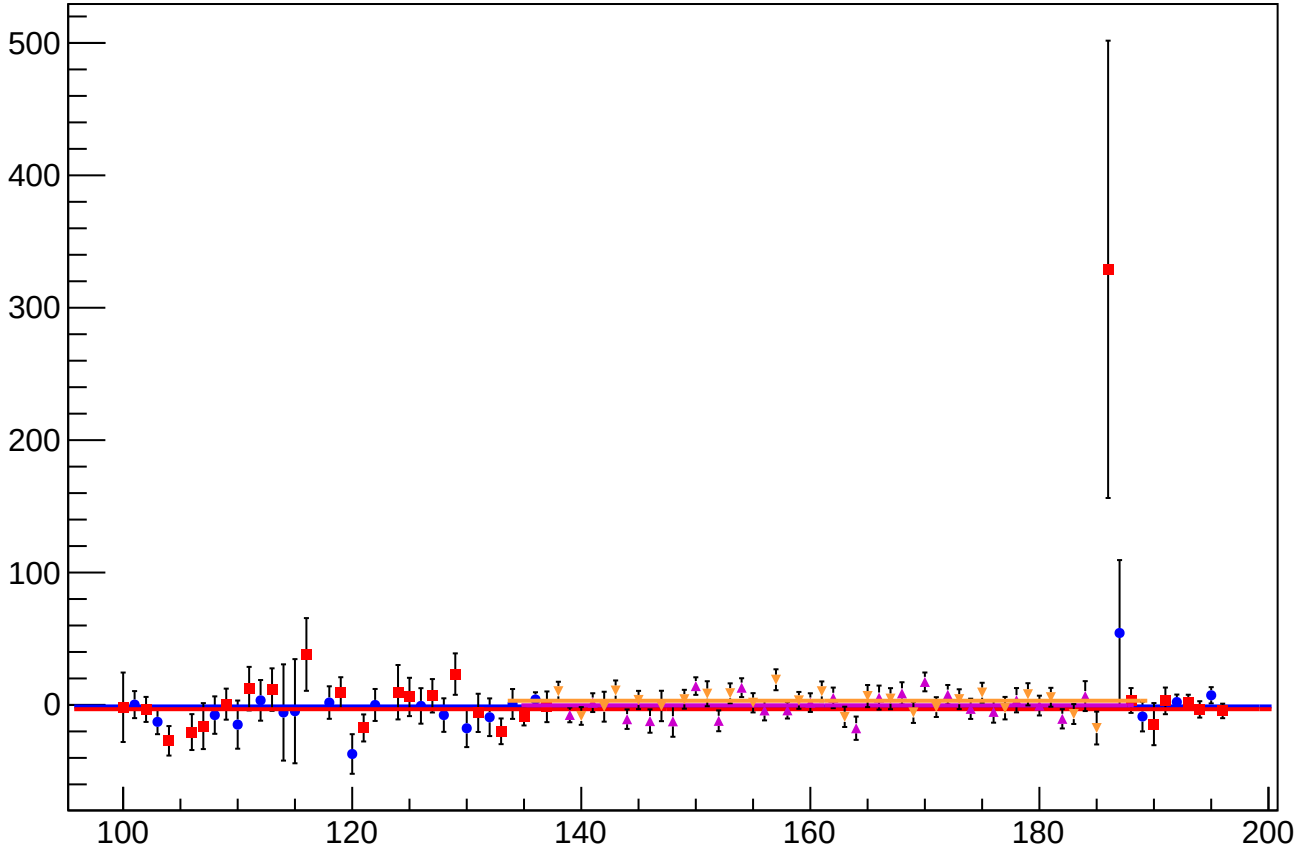
Right: 15414.553+/-2.464 $\chi^2$/NDF: 3995578.0/45

In: 9634.378+/-1.343 $\chi^2$/NDF:4446017.0/42

Out: 9740.518+/-1.303 $\chi^2$/NDF:6490012.1/50

All: 9689.050+/-0.935 $\chi^2$/NDF: 10939245.1/9

# diff_bpm4acY_mean vs Slug, Sign Corrected




Right In: -1.134+/-2.345 $\chi^2$/NDF: 14.9/19

Left Out: 3.171+/-1.562 $\chi^2$/NDF:21.7/24

Right Out: -3.220+/-2.051 $\chi^2$/NDF: 27.7/25

Left In: -0.269+/-1.590 $\chi^2$/NDF:34.2/22

Left: 1.482+/-1.114 $\chi^2$/NDF: 58.3/47

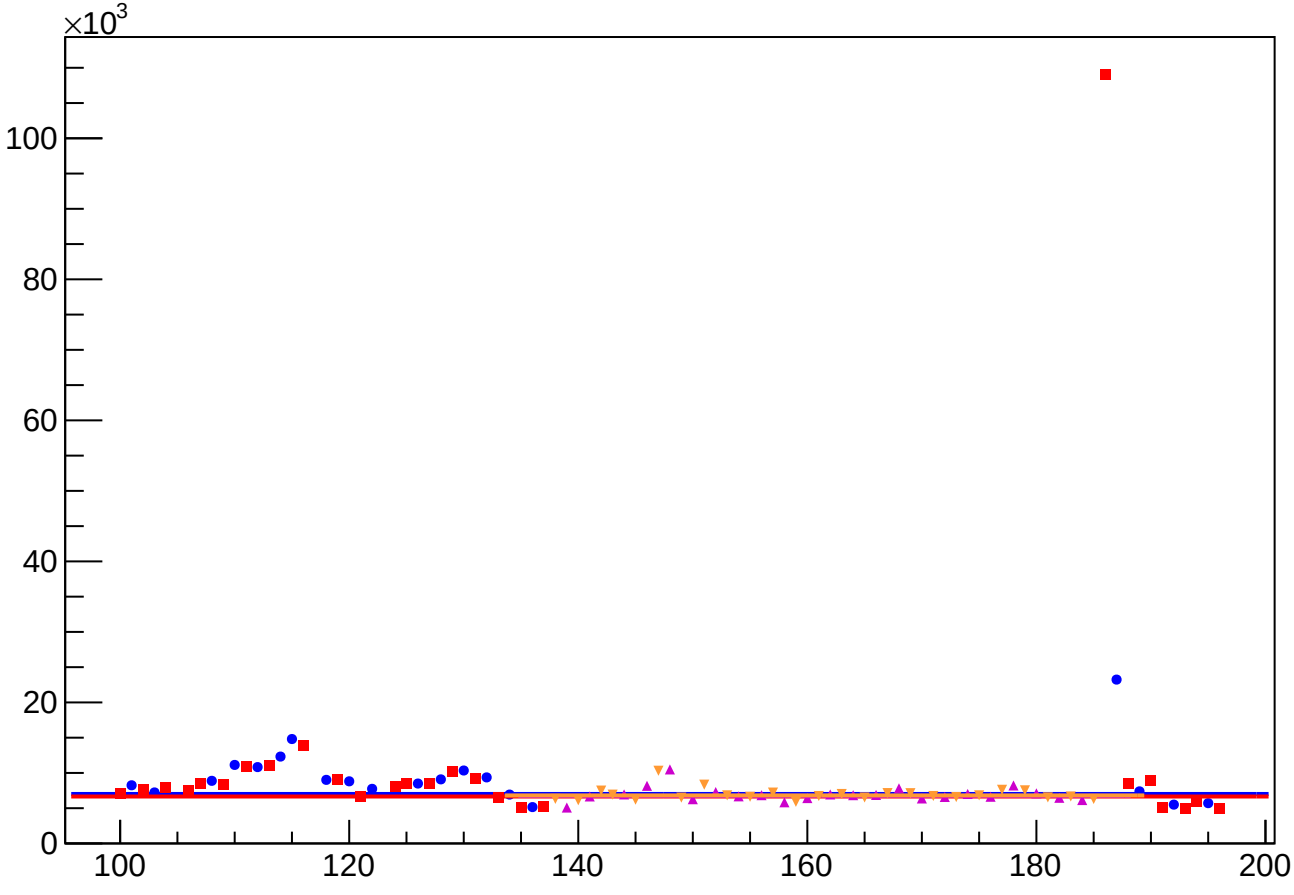
Right: -2.316+/-1.544 $\chi^2$/NDF: 43.1/45

In: -0.541+/-1.316 $\chi^2$/NDF:49.2/42

Out: 0.825+/-1.243 $\chi^2$/NDF:55.5/50

All: 0.181+/-0.903 $\chi^2$/NDF: 105.3/93

# diff_bpm4acY_rms vs Slug, Sign Corrected




Right In: 7018.211+/-1.658 $\chi^2$/NDF: 1383012.3/19

Left Out: 6812.964+/-1.104 $\chi^2$/NDF:394620.8/24

Right Out: 6657.901+/-1.450 $\chi^2$/NDF: 2273952.5/25

Left In: 6727.864+/-1.124 $\chi^2$/NDF:610037.3/22

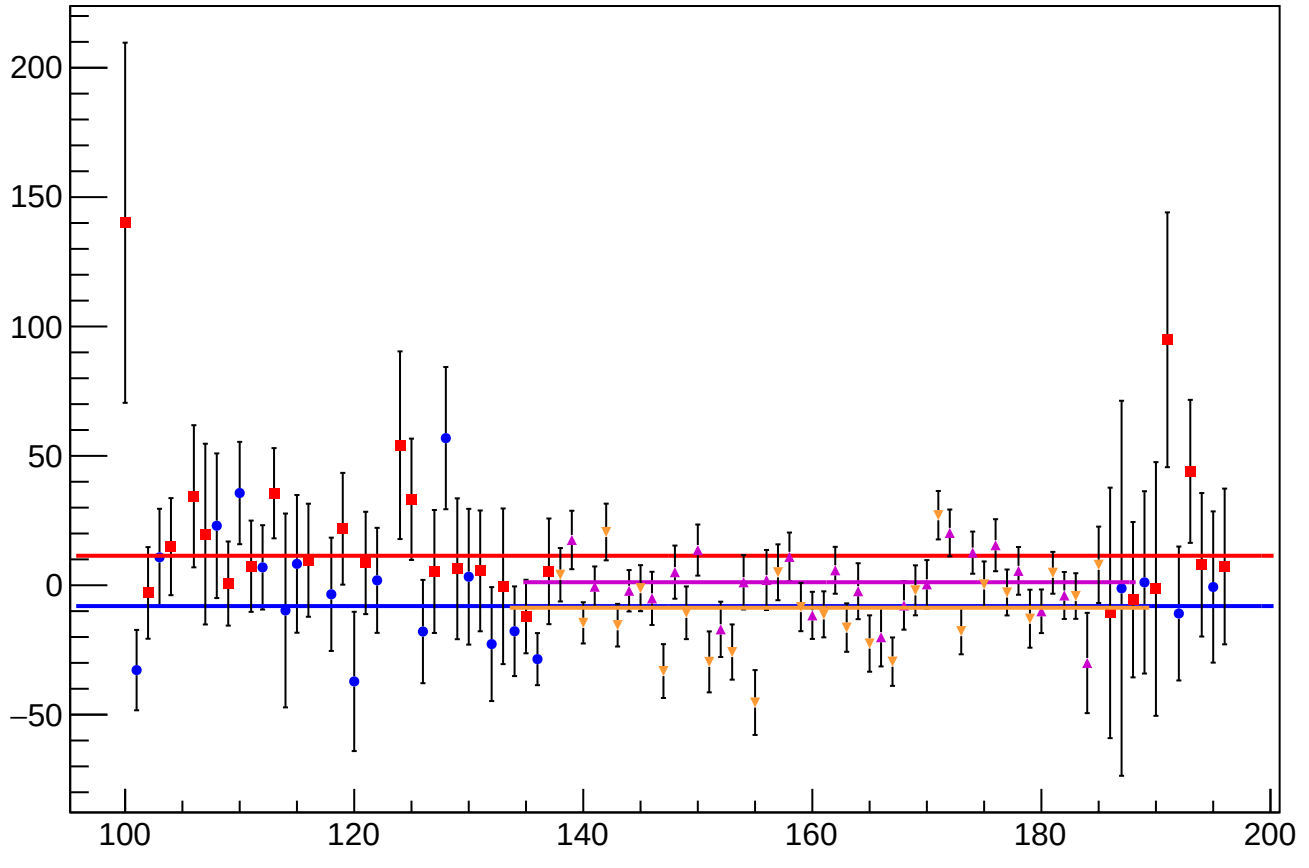
Left: 6771.179+/-0.788 $\chi^2$/NDF: 1007573.6/47

Right: 6814.070+/-1.092 $\chi^2$/NDF: 3683721.1/45

In: 6819.333+/-0.931 $\chi^2$/NDF:2014054.8/42

Out: 6756.045+/-0.879 $\chi^2$/NDF:2675809.8/50

All: 6785.872+/-0.639 $\chi^2$/NDF: 4692309.8/93




Right In: -8.049+/-4.622 $\chi^2$/NDF: 23.4/19

Left Out: -8.692+/-1.936 $\chi^2$/NDF:61.4/24

Right Out: 11.403+/-4.586 $\chi^2$/NDF: 17.8/25

Left In: 1.174+/-2.012 $\chi^2$/NDF:28.6/22

Left: -3.950+/-1.395 $\chi^2$/NDF: 102.4/47

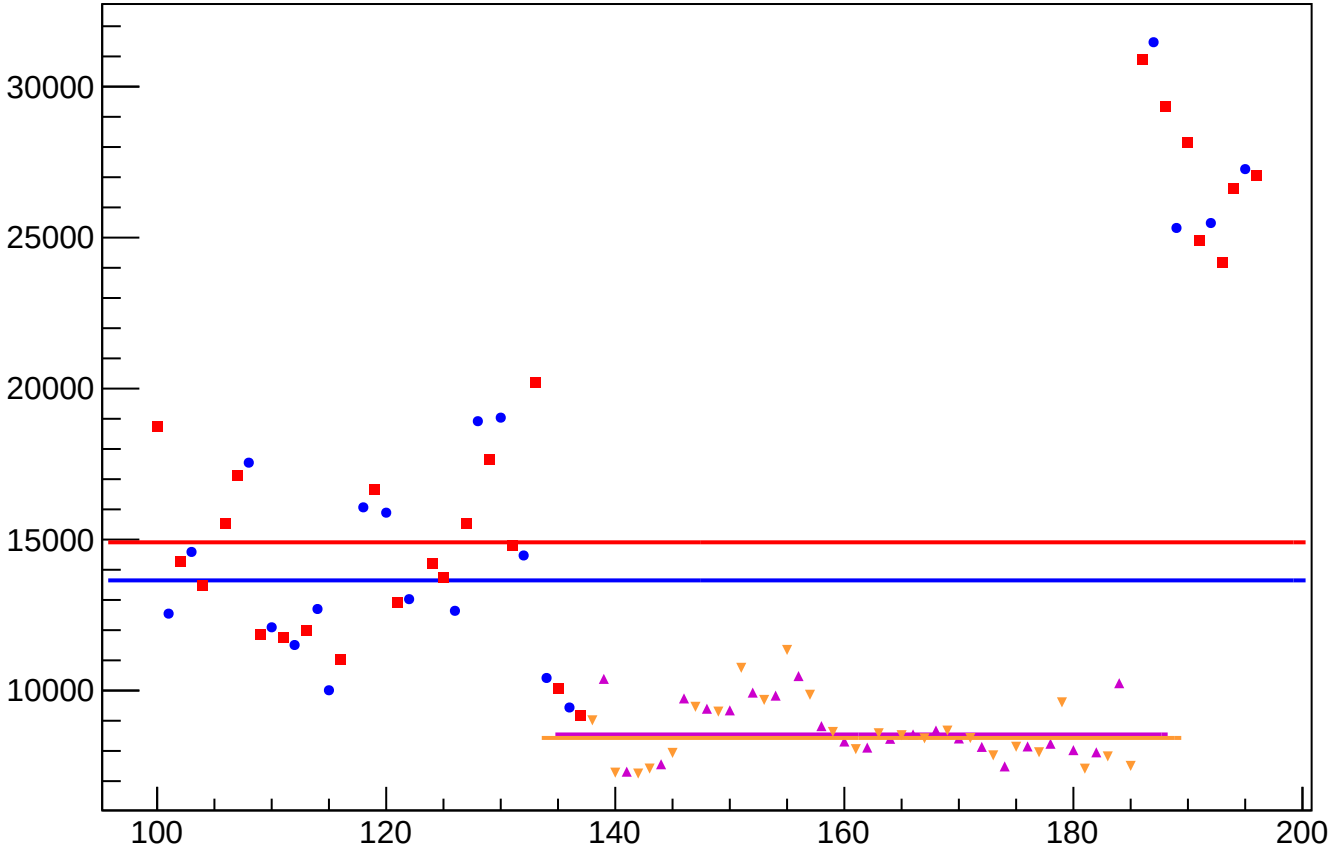
Right: 1.752+/-3.255 $\chi^2$/NDF: 50.2/45

In: -0.296+/-1.845 $\chi^2$/NDF:55.3/42

Out: -5.653+/-1.784 $\chi^2$/NDF:95.5/50

All: -3.065+/-1.282 $\chi^2$/NDF: 155.2/93

# diff_bpm4ecX_rms vs Slug, Sign Corrected




Right In: 13648.115+/-3.268 $\chi^2$/NDF: 1958028.5/19

Left Out: 8430.683+/-1.369 $\chi^2$/NDF:484653.2/24

Right Out: 14908.947+/-3.243 $\chi^2$/NDF: 2612465.0/25

Left In: 8545.534+/-1.423 $\chi^2$/NDF:389747.0/22

Left: 8485.892+/-0.987 $\chi^2$/NDF: 877783.2/47

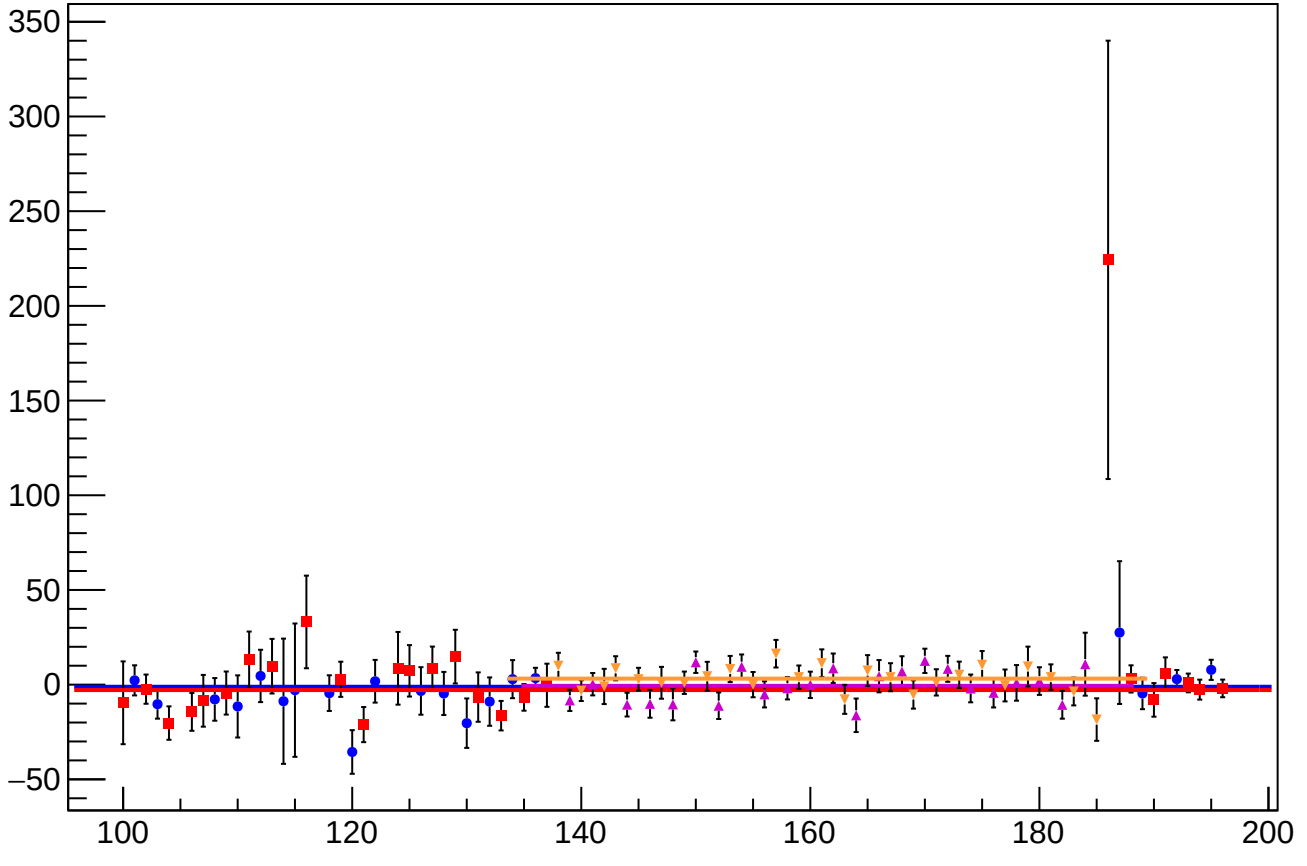
Right: 14283.402+/-2.302 $\chi^2$/NDF: 4645490.6/45

In: 9358.736+/-1.305 $\chi^2$/NDF:4397055.2/42

Out: 9410.640+/-1.261 $\chi^2$/NDF:6484121.6/50

All: 9385.565+/-0.907 $\chi^2$/NDF: 10881994.9/9

# diff_bpm4ecY_mean vs Slug, Sign Corrected




Right In: -1.114+/-2.036 $\chi^2$/NDF: 19.5/19

Left Out: 3.185+/-1.435 $\chi^2$/NDF:18.7/24

Right Out: -2.860+/-1.744 $\chi^2$/NDF: 27.2/25

Left In: -0.633+/-1.482 $\chi^2$/NDF:31.8/22

Left: 1.337+/-1.031 $\chi^2$/NDF: 53.9/47

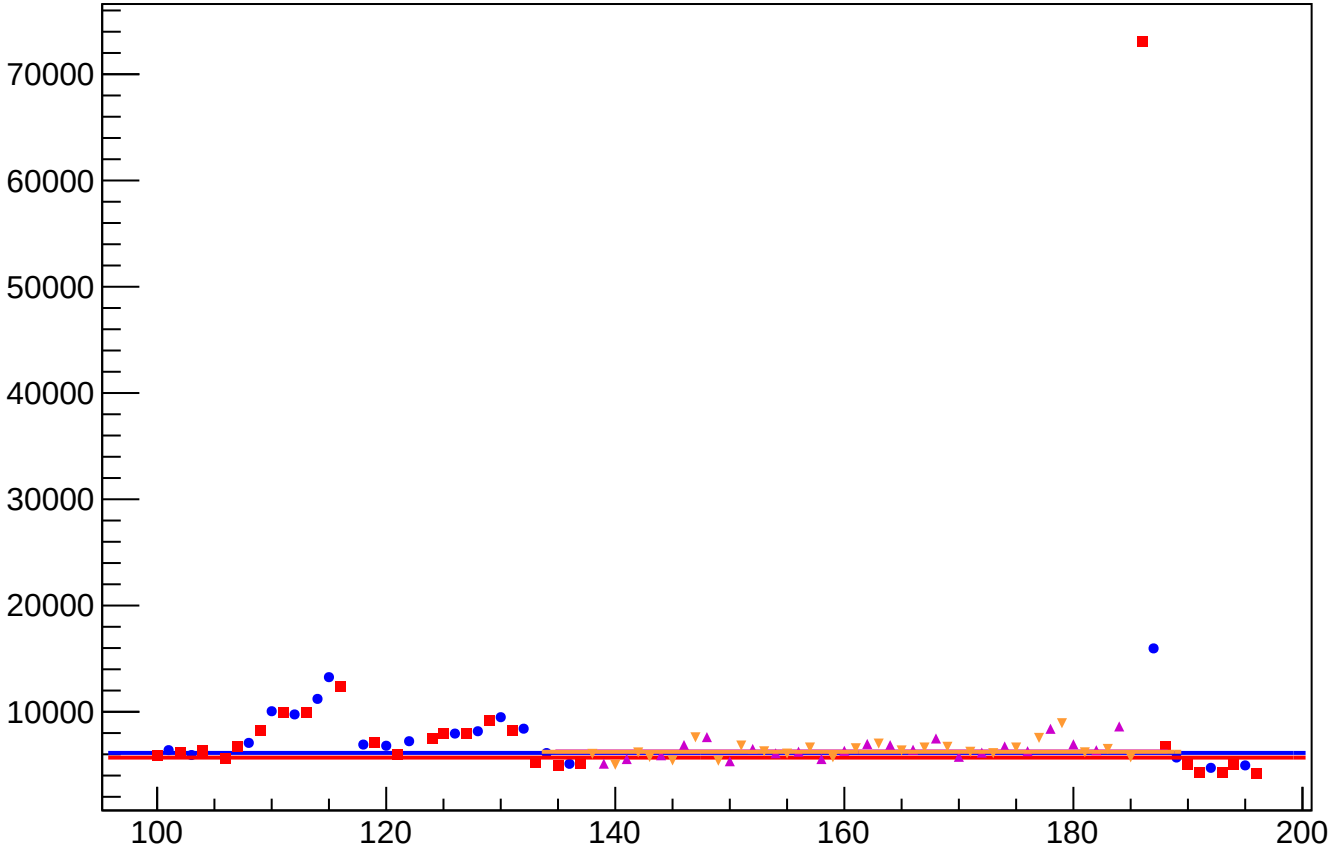
Right: -2.121+/-1.325 $\chi^2$/NDF: 47.2/45

In: -0.799+/-1.198 $\chi^2$/NDF:51.4/42

Out: 0.746+/-1.108 $\chi^2$/NDF:53.0/50

All: 0.033+/-0.814 $\chi^2$/NDF: 105.3/93

# diff_bpm4ecY_rms vs Slug, Sign Corrected




Right In: 6131.722+/-1.440 $\chi^2$/NDF: 1219870.8/19

Left Out: 6237.931+/-1.015 $\chi^2$/NDF:507726.8/24

Right Out: 5691.893+/-1.234 $\chi^2$/NDF: 2224711.2/25

Left In: 6268.263+/-1.048 $\chi^2$/NDF:524326.6/22

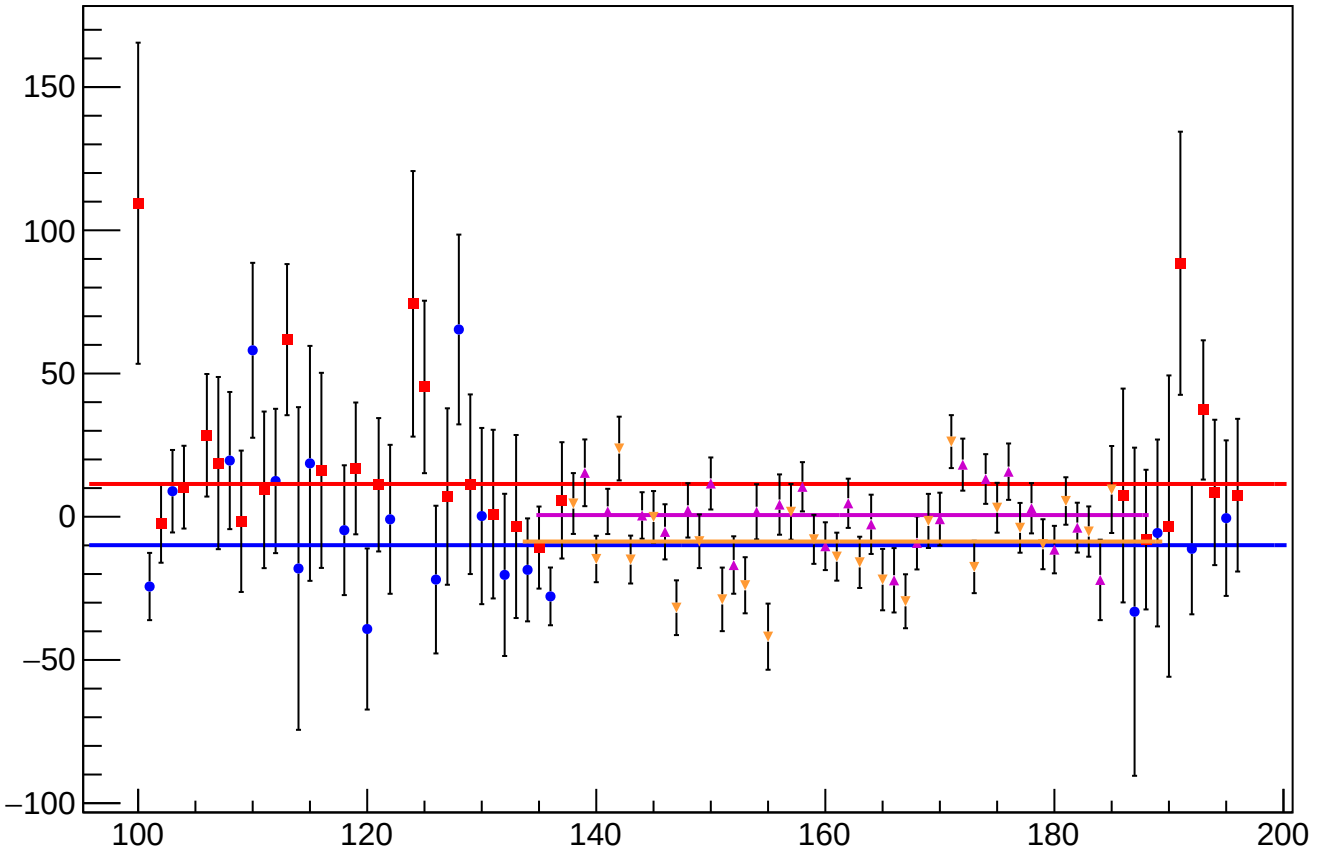
Left: 6252.609+/-0.729 $\chi^2$/NDF: 1032485.9/47

Right: 5878.057+/-0.937 $\chi^2$/NDF: 3498393.5/45

In: 6220.995+/-0.847 $\chi^2$/NDF:1750076.6/42

Out: 6017.602+/-0.784 $\chi^2$/NDF:2849320.0/50

All: 6111.374+/-0.575 $\chi^2$/NDF: 4630460.8/93




Right In: -9.929+/-4.754 $\chi^2$/NDF: 21.6/19

Left Out: -8.650+/-1.875 $\chi^2$/NDF:63.0/24

Right Out: 11.439+/-4.778 $\chi^2$/NDF: 19.5/25

Left In: 0.583+/-1.939 $\chi^2$/NDF:28.5/22

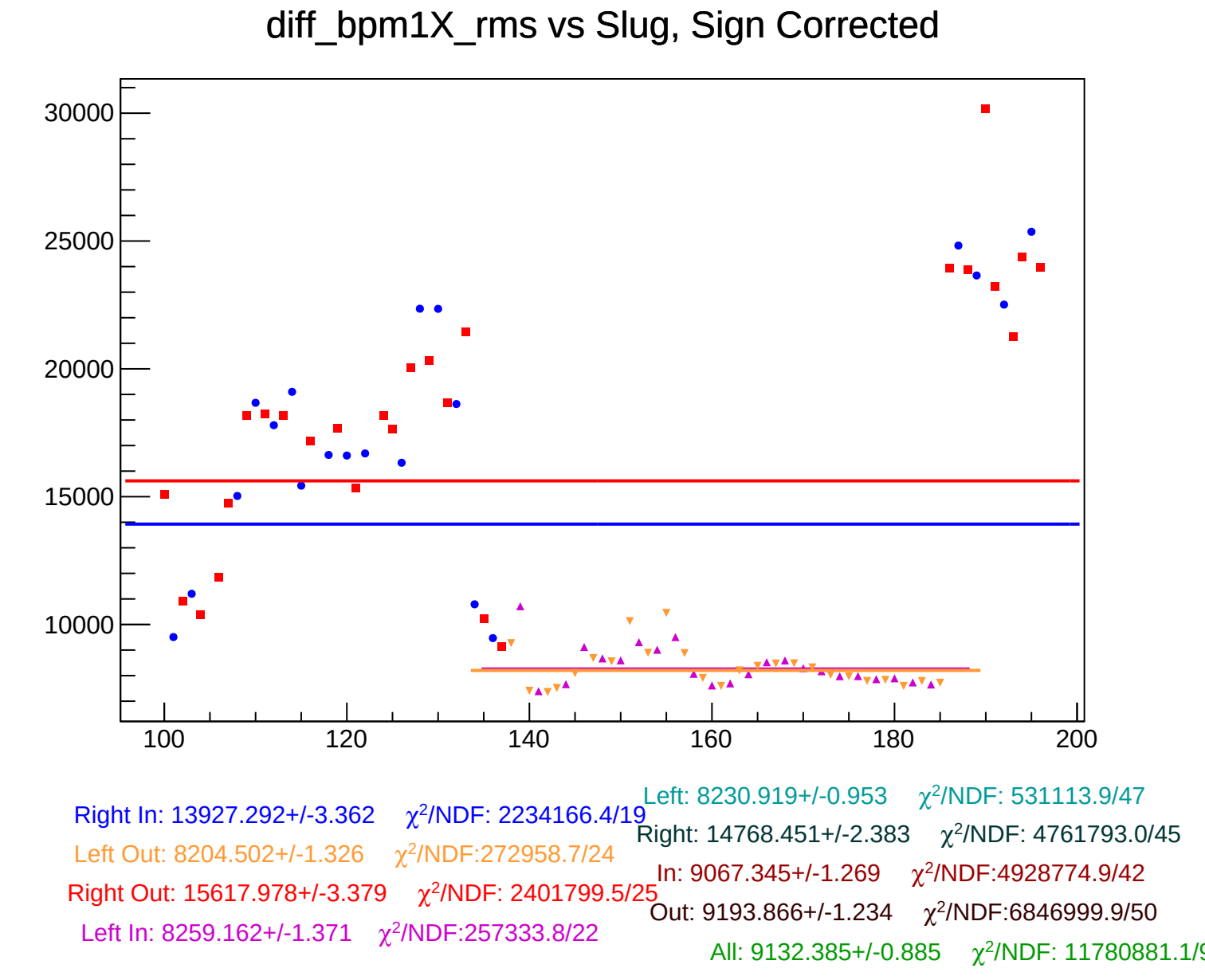
Left: -4.188+/-1.348 $\chi^2$/NDF: 103.3/47

Right: 0.702+/-3.370 $\chi^2$/NDF: 51.1/45

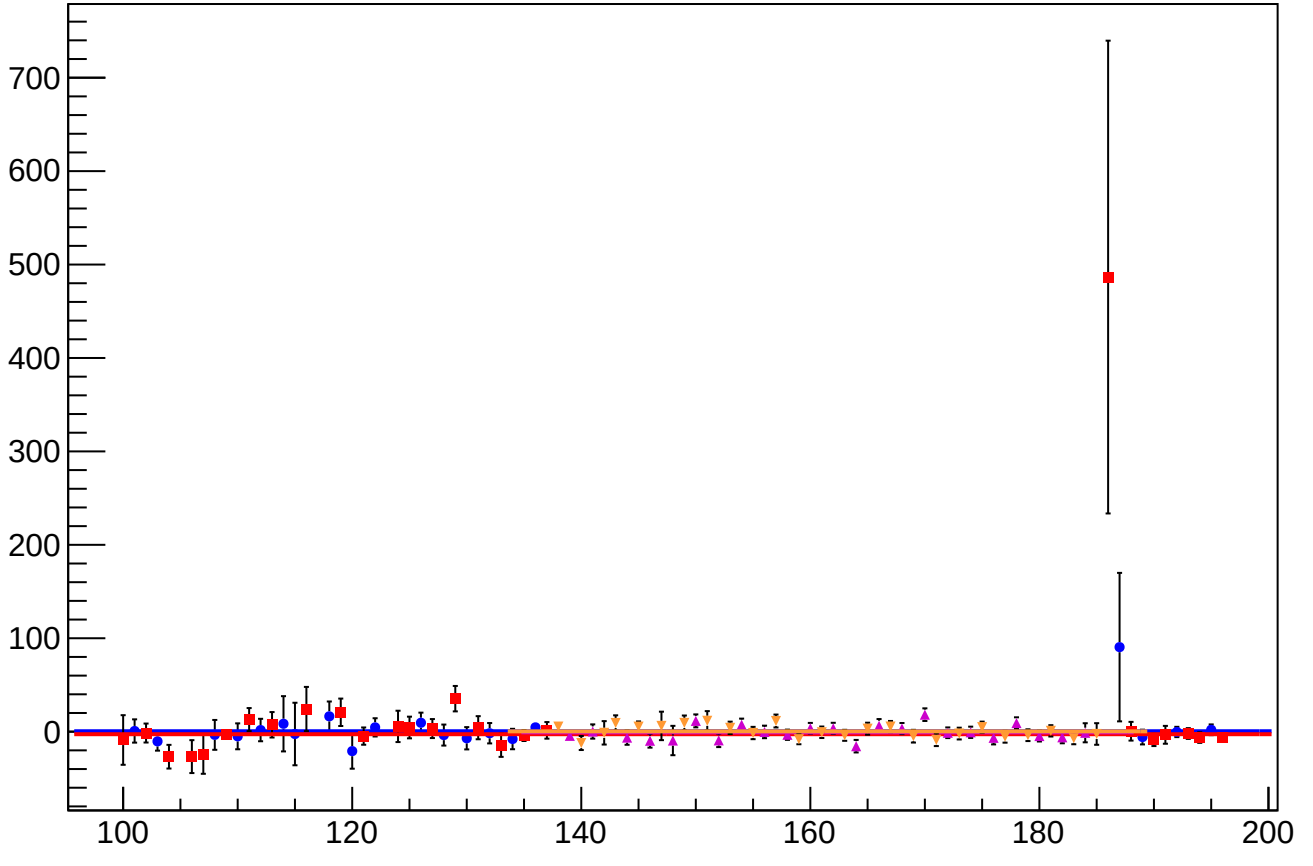
In: -0.916+/-1.795 $\chi^2$/NDF:54.3/42

Out: -5.969+/-1.745 $\chi^2$/NDF:97.8/50

All: -3.514+/-1.251 $\chi^2$/NDF: 156.2/93


diff_bpm1X_rms vs Slug, Sign Corrected
30000
25000
20000
15000
10000
100
120
140
160
180
200
Right In: 13927.292+/-3.362 χ²/NDF: 2234166.4/19
Left Out: 8204.502+/-1.326 χ²/NDF:272958.7/24
Right Out: 15617.978+/-3.379 χ²/NDF: 2401799.5/25
Left In: 8259.162+/-1.371 χ²/NDF:257333.8/22
Left: 8230.919+/-0.953 χ²/NDF: 531113.9/47
Right: 14768.451+/-2.383 χ²/NDF: 4761793.0/45
In: 9067.345+/-1.269 χ²/NDF:4928774.9/42
Out: 9193.866+/-1.234 χ²/NDF:6846999.9/50
All: 9132.385+/-0.885 χ²/NDF: 11780881.1/9

# diff_bpm1Y_mean vs Slug, Sign Corrected




Right In: 0.459+/-2.080 $\chi^2$/NDF: 8.8/19

Left Out: 0.353+/-1.322 $\chi^2$/NDF:21.5/24

Right Out: -2.715+/-1.746 $\chi^2$/NDF: 28.4/25

Left In: -0.709+/-1.291 $\chi^2$/NDF:29.9/22

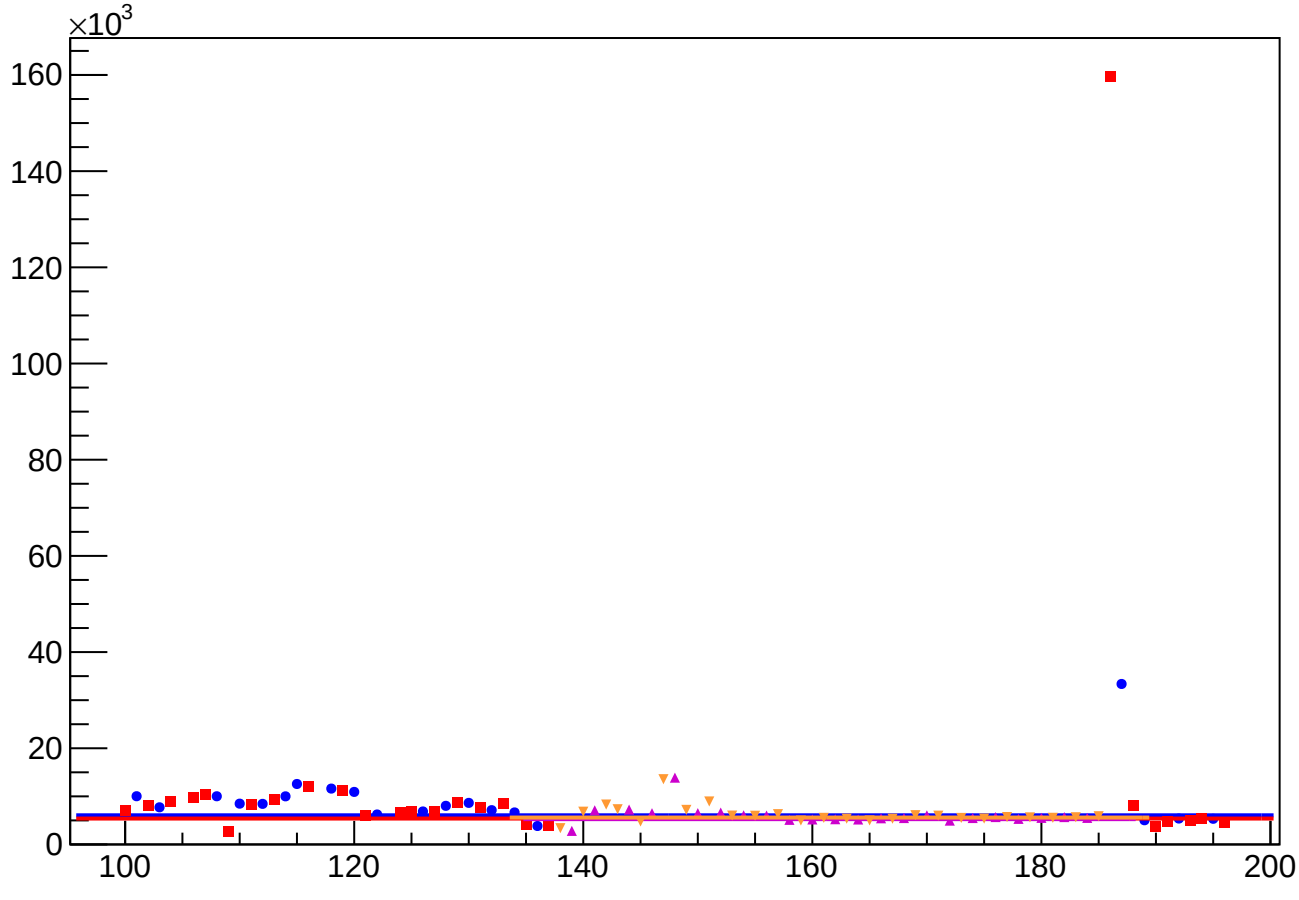
Left: -0.191+/-0.924 $\chi^2$/NDF: 51.7/47

Right: -1.403+/-1.337 $\chi^2$/NDF: 38.6/45

In: -0.384+/-1.097 $\chi^2$/NDF:39.0/42

Out: -0.765+/-1.054 $\chi^2$/NDF:51.8/50

All: -0.582+/-0.760 $\chi^2$/NDF: 90.9/93




Right In: 6063.275+/-1.471 $\chi^2$/NDF: 2124582.9/19

Left Out: 5594.503+/-0.935 $\chi^2$/NDF:1784259.1/24

Right Out: 5386.201+/-1.235 $\chi^2$/NDF: 3667834.1/25

Left In: 5262.754+/-0.913 $\chi^2$/NDF:2425604.2/22

Left: 5424.765+/-0.653 $\chi^2$/NDF: 4274340.6/47

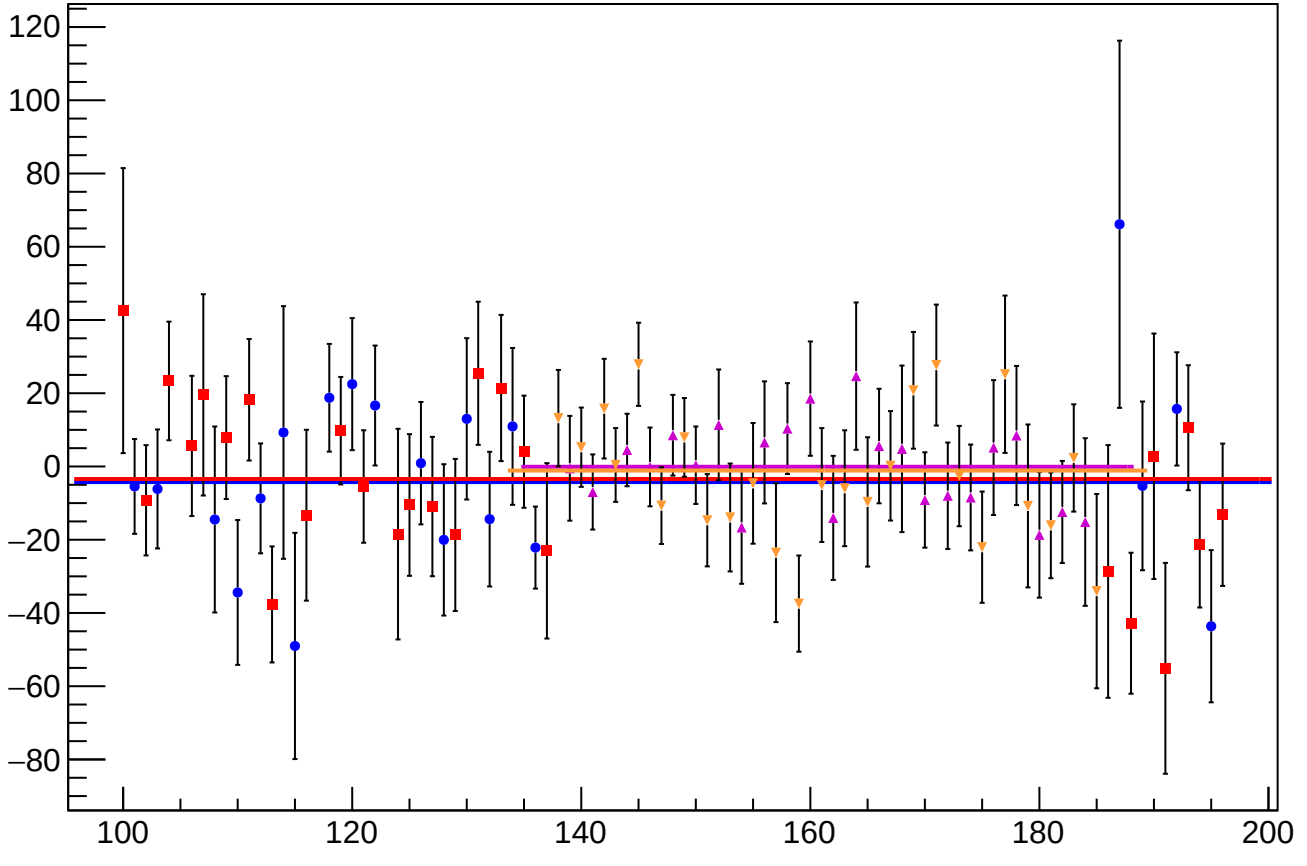
Right: 5666.121+/-0.946 $\chi^2$/NDF: 5916759.4/45

In: 5485.470+/-0.776 $\chi^2$/NDF:4764070.9/42

Out: 5518.627+/-0.745 $\chi^2$/NDF:5470190.7/50

All: 5502.714+/-0.537 $\chi^2$/NDF: 10235211.9/9

# diff_bpm11X_mean vs Slug, Sign Corrected




Right In: -4.253+/-4.032 $\chi^2$/NDF: 23.0/19

Left Out: -1.111+/-2.813 $\chi^2$/NDF:33.8/24

Right Out: -3.423+/-3.780 $\chi^2$/NDF: 28.7/25

Left In: -0.084+/-2.926 $\chi^2$/NDF:11.5/22

Left: -0.618+/-2.028 $\chi^2$/NDF: 45.3/47

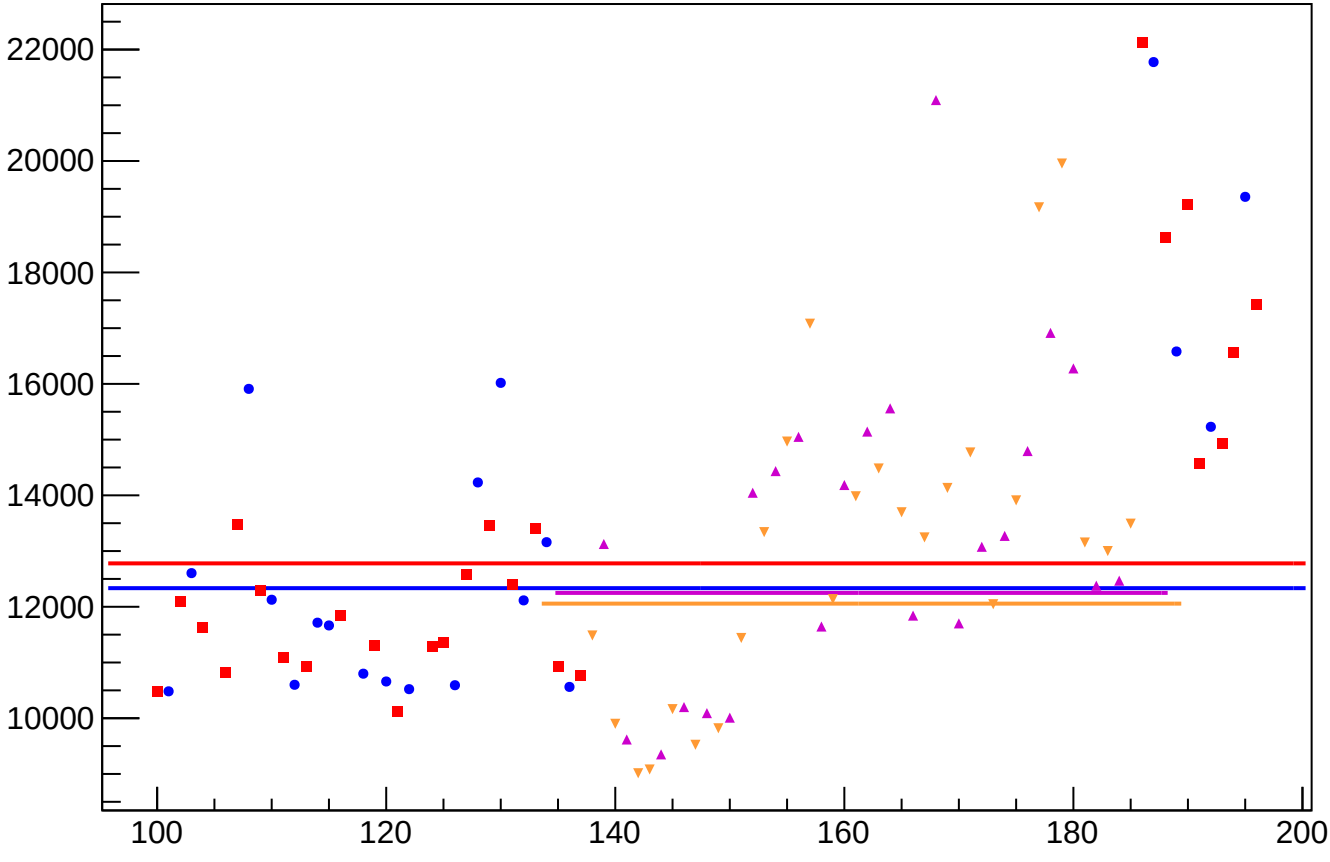
Right: -3.811+/-2.758 $\chi^2$/NDF: 51.8/45

In: -1.523+/-2.368 $\chi^2$/NDF:35.2/42

Out: -1.935+/-2.257 $\chi^2$/NDF:62.7/50

All: -1.739+/-1.634 $\chi^2$/NDF: 97.9/93

# diff_bpm11X_rms vs Slug, Sign Corrected




Right In: 12334.212+/-2.851 $\chi^2$/NDF: 758685.2/19

Left Out: 12056.714+/-1.989 $\chi^2$/NDF:1561738.9/24

Right Out: 12778.856+/-2.673 $\chi^2$/NDF: 896553.4/25

Left In: 12249.109+/-2.069 $\chi^2$/NDF:1416030.4/22

Left: 12149.117+/-1.434 $\chi^2$/NDF: 2982262.4/47

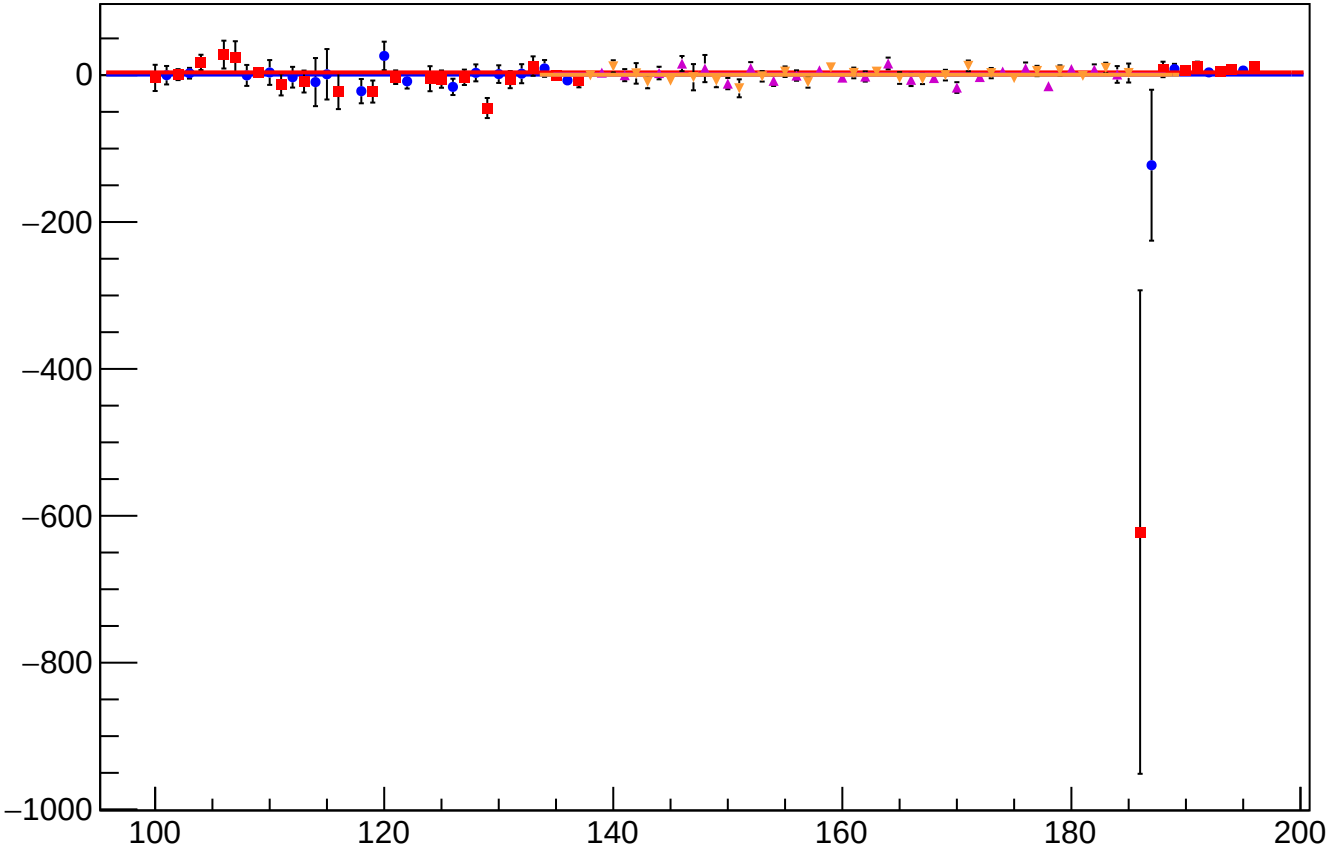
Right: 12570.842+/-1.950 $\chi^2$/NDF: 1668183.1/45

In: 12278.471+/-1.675 $\chi^2$/NDF:2175299.2/42

Out: 12314.082+/-1.596 $\chi^2$/NDF:2505265.0/50

All: 12297.135+/-1.155 $\chi^2$/NDF: 4680801.2/9

# diff_bpm11Y_mean vs Slug, Sign Corrected




Right In: 0.760+/-1.954 $\chi^2$/NDF: 15.0/19

Left Out: 0.526+/-1.369 $\chi^2$/NDF:21.4/24

Right Out: 3.726+/-1.652 $\chi^2$/NDF: 36.2/25

Left In: 0.946+/-1.294 $\chi^2$/NDF:32.2/22

Left: 0.748+/-0.940 $\chi^2$/NDF: 53.7/47

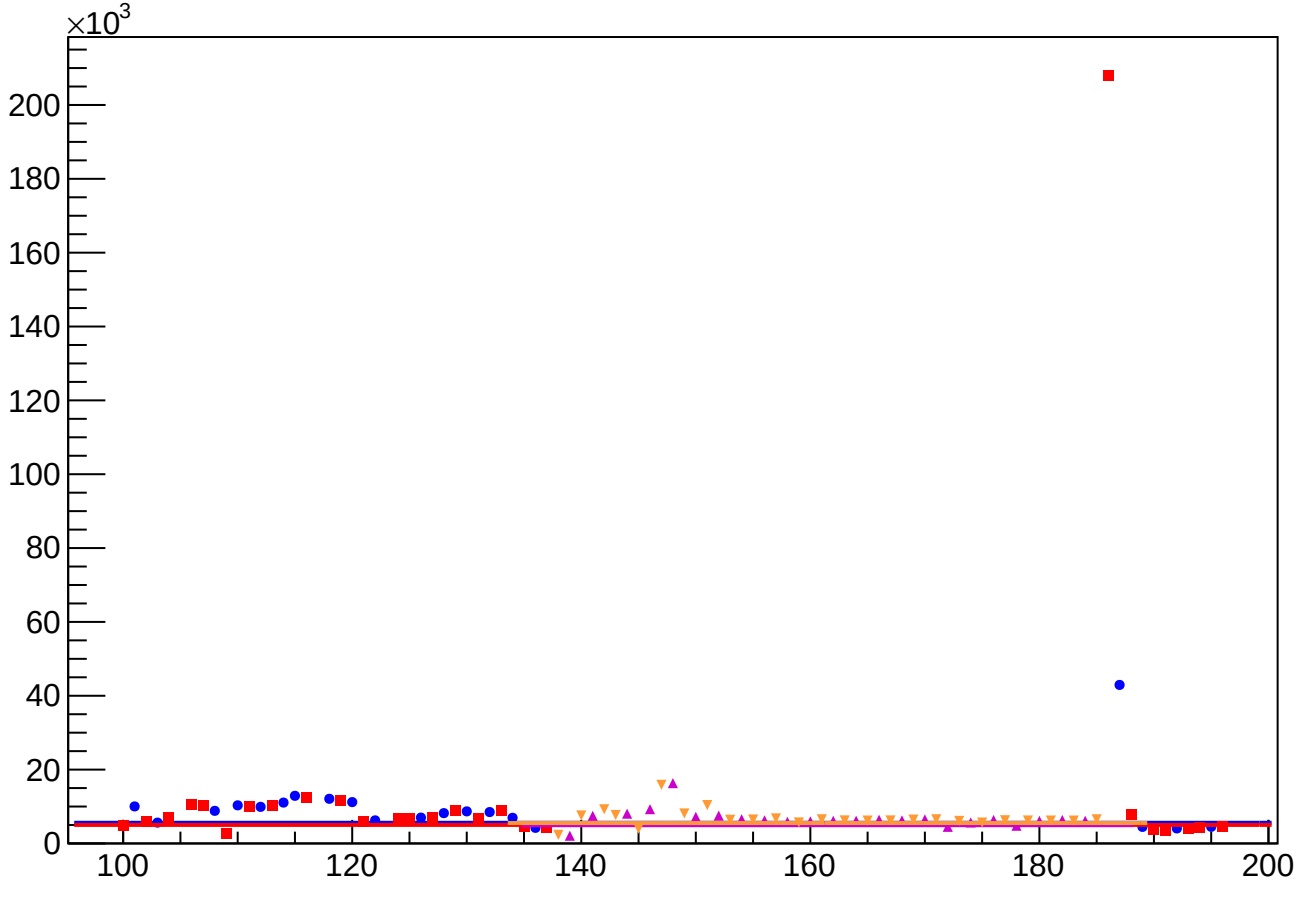
Right: 2.490+/-1.261 $\chi^2$/NDF: 52.5/45

In: 0.889+/-1.079 $\chi^2$/NDF:47.2/42

Out: 1.829+/-1.054 $\chi^2$/NDF:59.8/50

All: 1.370+/-0.754 $\chi^2$/NDF: 107.4/93

# diff_bpm11Y_rms vs Slug, Sign Corrected




Right In: 5598.468+/-1.382 $\chi^2$/NDF: 2587836.2/19

Left Out: 5527.971+/-0.968 $\chi^2$/NDF:4375722.1/24

Right Out: 5019.337+/-1.168 $\chi^2$/NDF: 3667873.3/25

Left In: 4941.993+/-0.915 $\chi^2$/NDF:5936108.3/22

Left: 5218.619+/-0.665 $\chi^2$/NDF: 10505353.1/47

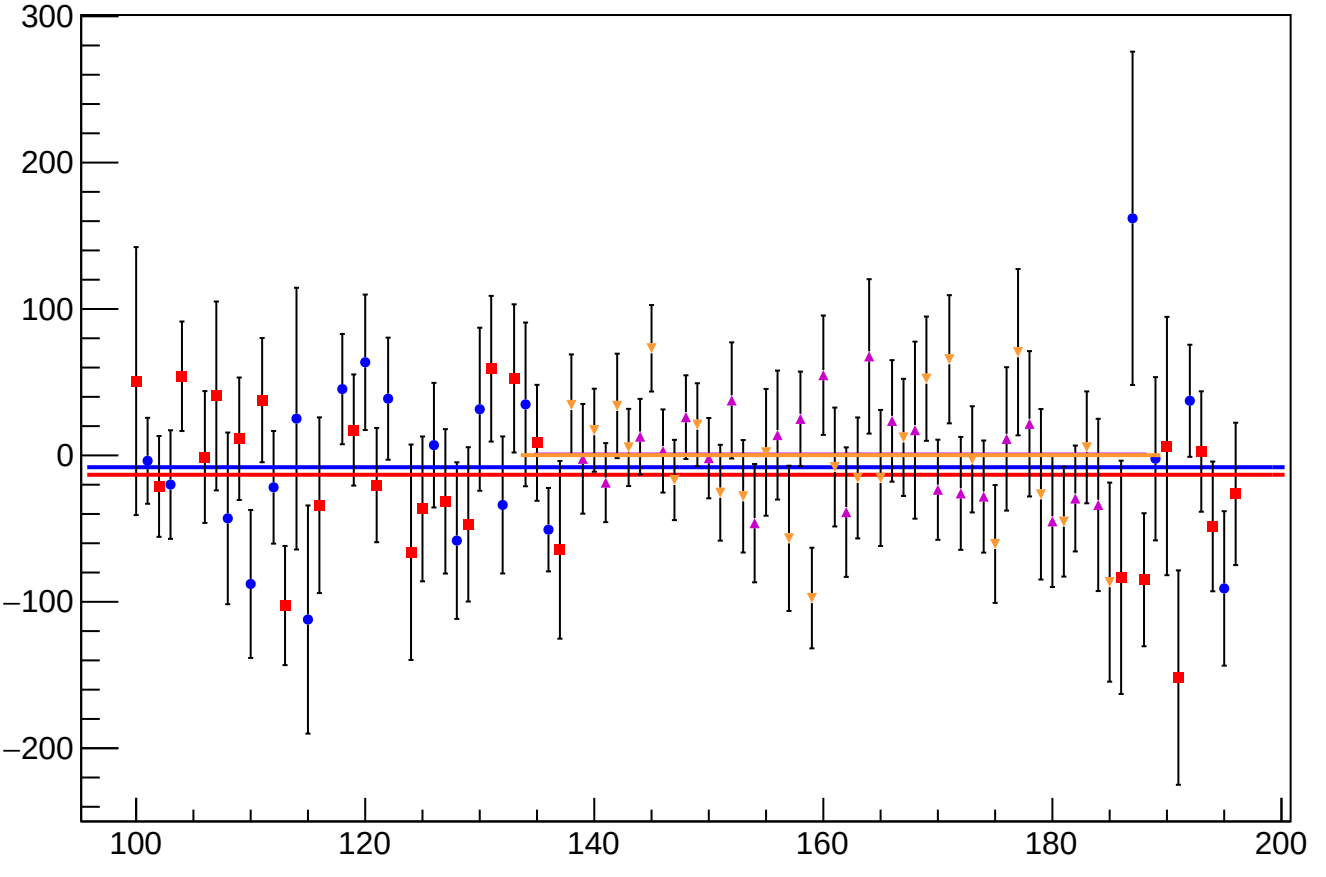
Right: 5260.699+/-0.892 $\chi^2$/NDF: 6358183.6/45

In: 5142.200+/-0.763 $\chi^2$/NDF:8680856.2/42

Out: 5320.891+/-0.745 $\chi^2$/NDF:8156040.3/50

All: 5233.652+/-0.533 $\chi^2$/NDF: 16864967.2/9

# diff_bpm12X_mean vs Slug, Sign Corrected




Right In: -8.067+/-10.022 $\chi^2$/NDF: 21.4/19

Left Out: 0.168+/-7.375 $\chi^2$/NDF:31.1/24

Right Out: -13.225+/-9.399 $\chi^2$/NDF: 25.8/25

Left In: 0.586+/-7.667 $\chi^2$/NDF:12.8/22

Left: 0.369+/-5.315 $\chi^2$/NDF: 43.9/47

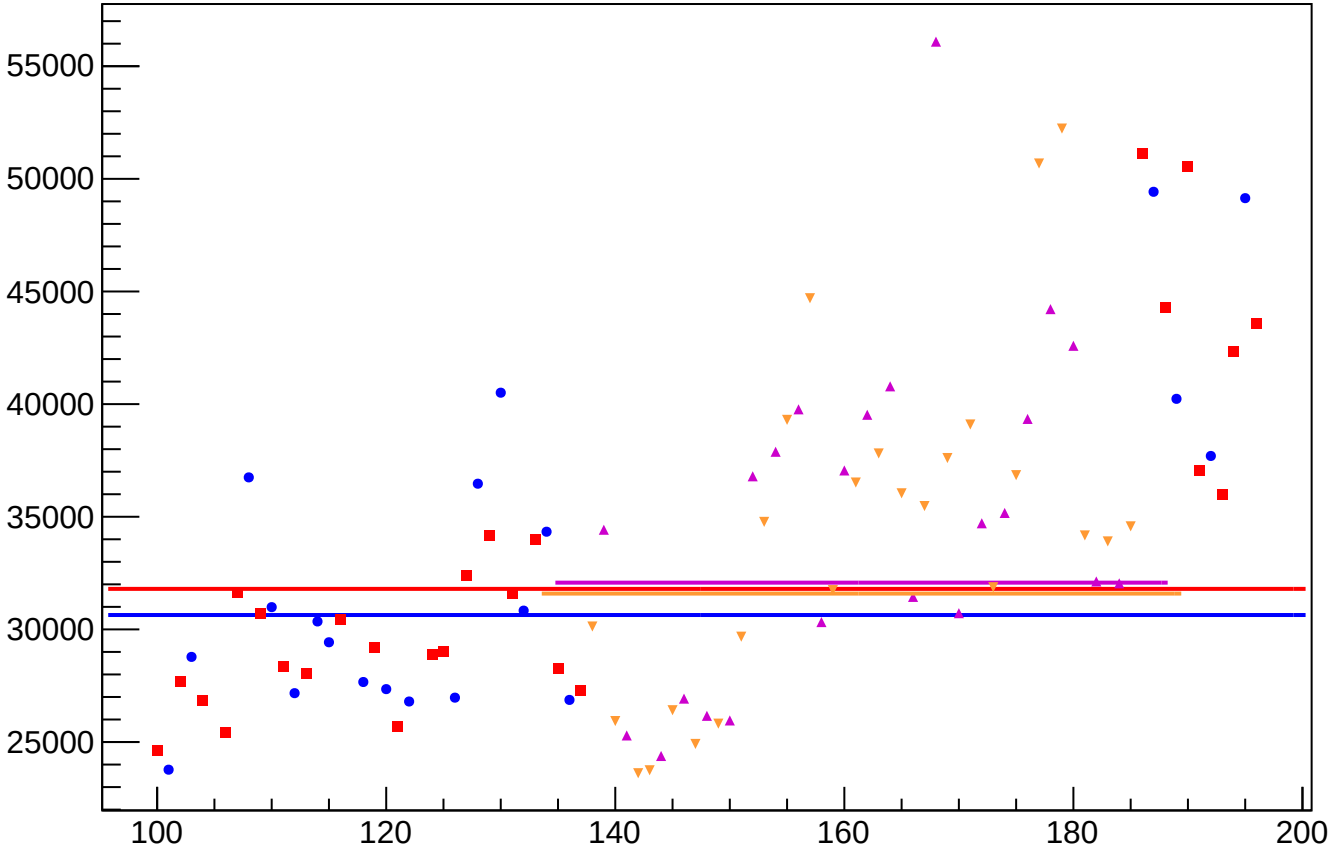
Right: -10.811+/-6.856 $\chi^2$/NDF: 47.4/45

In: -2.609+/-6.089 $\chi^2$/NDF:34.7/42

Out: -4.936+/-5.802 $\chi^2$/NDF:58.2/50

All: -3.828+/-4.201 $\chi^2$/NDF: 93.0/93

# diff_bpm12X_rms vs Slug, Sign Corrected




Right In: 30638.512+/-7.086 $\chi^2$/NDF: 765679.5/19

Left Out: 31589.841+/-5.215 $\chi^2$/NDF:1590867.7/24

Right Out: 31798.810+/-6.646 $\chi^2$/NDF: 870936.4/25

Left In: 32075.078+/-5.421 $\chi^2$/NDF:1455714.6/22

Left: 31823.038+/-3.758 $\chi^2$/NDF: 3050743.5/47

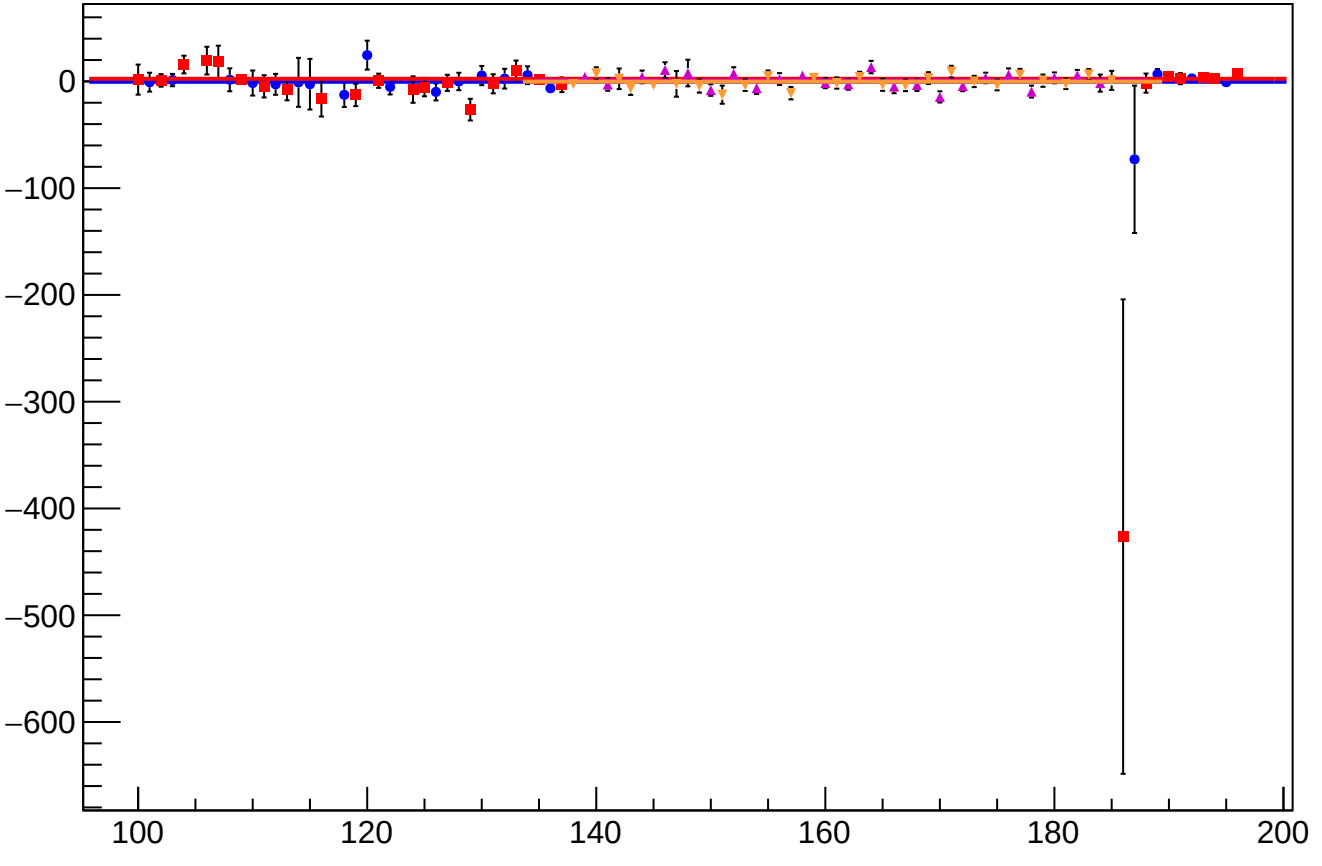
Right: 31255.838+/-4.848 $\chi^2$/NDF: 1650879.7/45

In: 31544.704+/-4.306 $\chi^2$/NDF:2247317.7/42

Out: 31669.472+/-4.103 $\chi^2$/NDF:2462416.1/50

All: 31610.102+/-2.970 $\chi^2$/NDF: 4710173.9/9

# diff_bpm12Y_mean vs Slug, Sign Corrected




Right In: -0.348+/-1.374 $\chi^2$/NDF: 15.6/19

Left Out: -0.226+/-1.094 $\chi^2$/NDF:19.9/24

Right Out: 2.424+/-1.193 $\chi^2$/NDF: 28.8/25

Left In: 0.788+/-1.061 $\chi^2$/NDF:33.8/22

Left: 0.297+/-0.761 $\chi^2$/NDF: 54.1/47

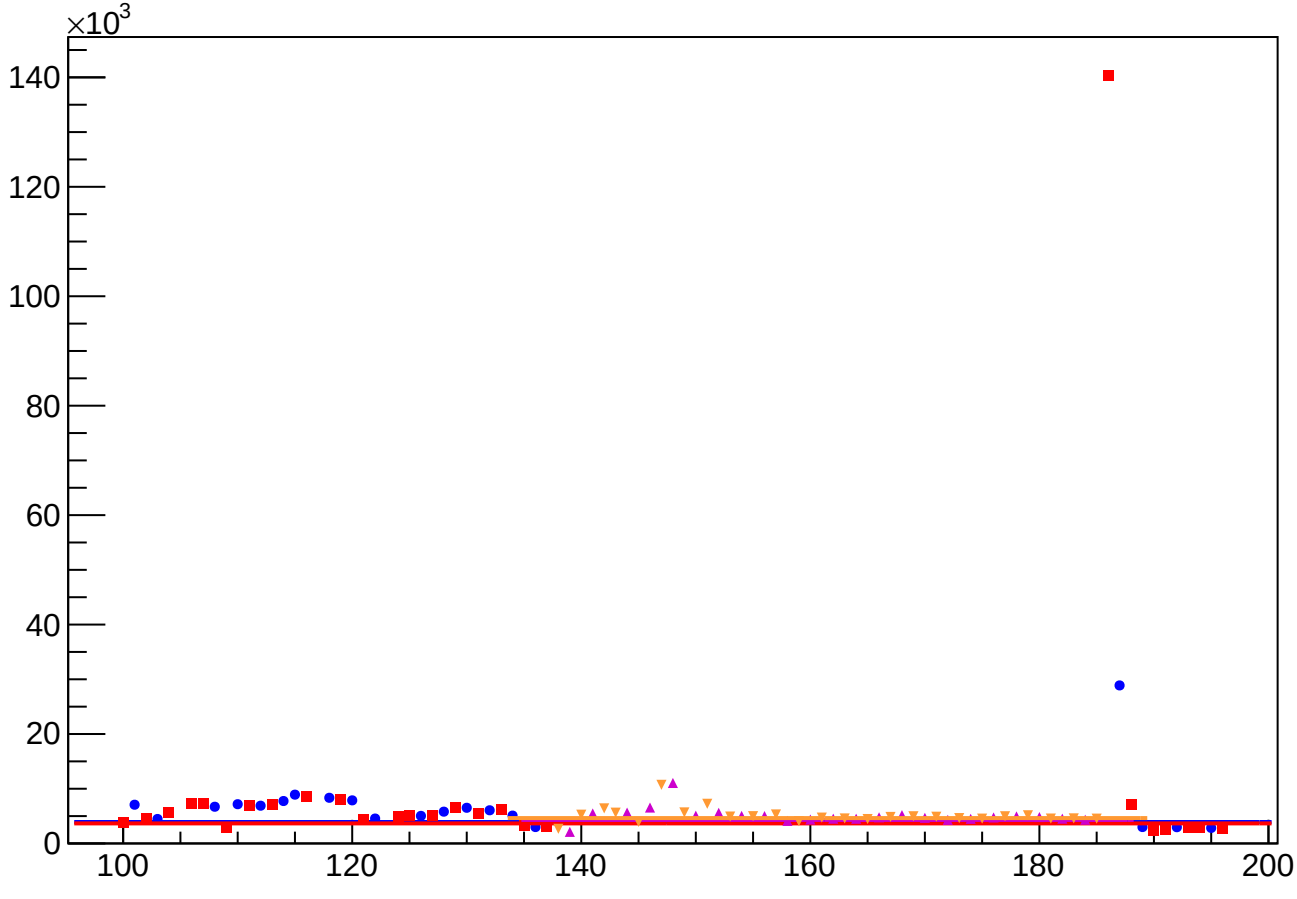
Right: 1.233+/-0.901 $\chi^2$/NDF: 46.7/45

In: 0.364+/-0.840 $\chi^2$/NDF:49.8/42

Out: 0.985+/-0.806 $\chi^2$/NDF:51.4/50

All: 0.687+/-0.582 $\chi^2$/NDF: 101.4/93

# diff_bpm12Y_rms vs Slug, Sign Corrected




Right In: 3918.318+/-0.972 $\chi^2$/NDF: 2780922.3/19

Left Out: 4637.399+/-0.774 $\chi^2$/NDF:1763103.2/24

Right Out: 3663.913+/-0.843 $\chi^2$/NDF: 3693336.1/25

Left In: 4295.074+/-0.750 $\chi^2$/NDF:3095610.0/22

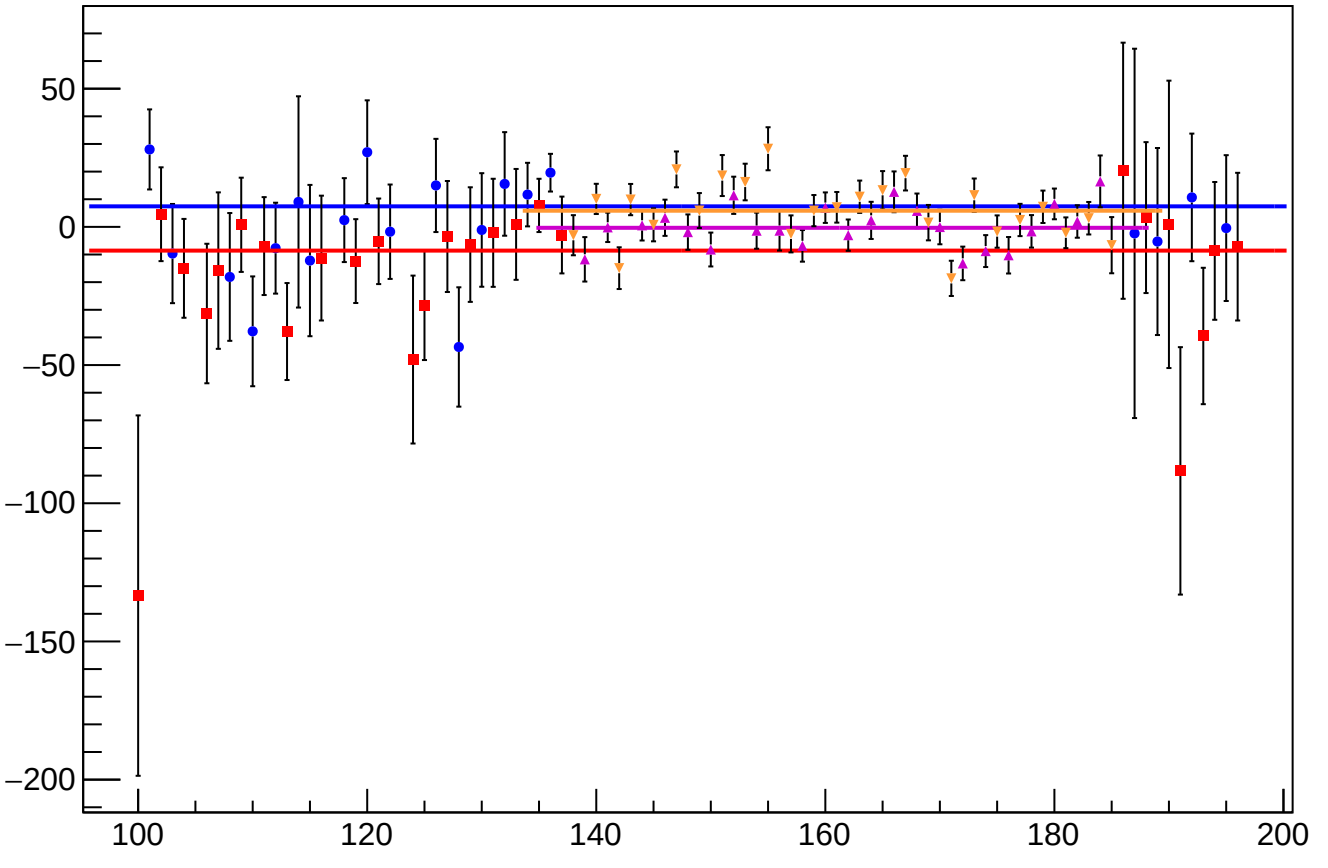
Left: 4460.947+/-0.538 $\chi^2$/NDF: 4959666.2/47

Right: 3773.201+/-0.637 $\chi^2$/NDF: 6513350.5/45

In: 4154.443+/-0.594 $\chi^2$/NDF:5970731.3/42

Out: 4192.614+/-0.570 $\chi^2$/NDF:6180096.9/50

All: 4174.305+/-0.411 $\chi^2$/NDF: 12152978.9/9




Right In: 7.428+/-3.702 $\chi^2$/NDF: 21.9/19

Left Out: 5.849+/-1.257 $\chi^2$/NDF:60.0/24

Right Out: -8.586+/-3.868 $\chi^2$/NDF: 20.0/25

Left In: -0.337+/-1.301 $\chi^2$/NDF:29.4/22

Left: 2.861+/-0.904 $\chi^2$/NDF: 101.1/47

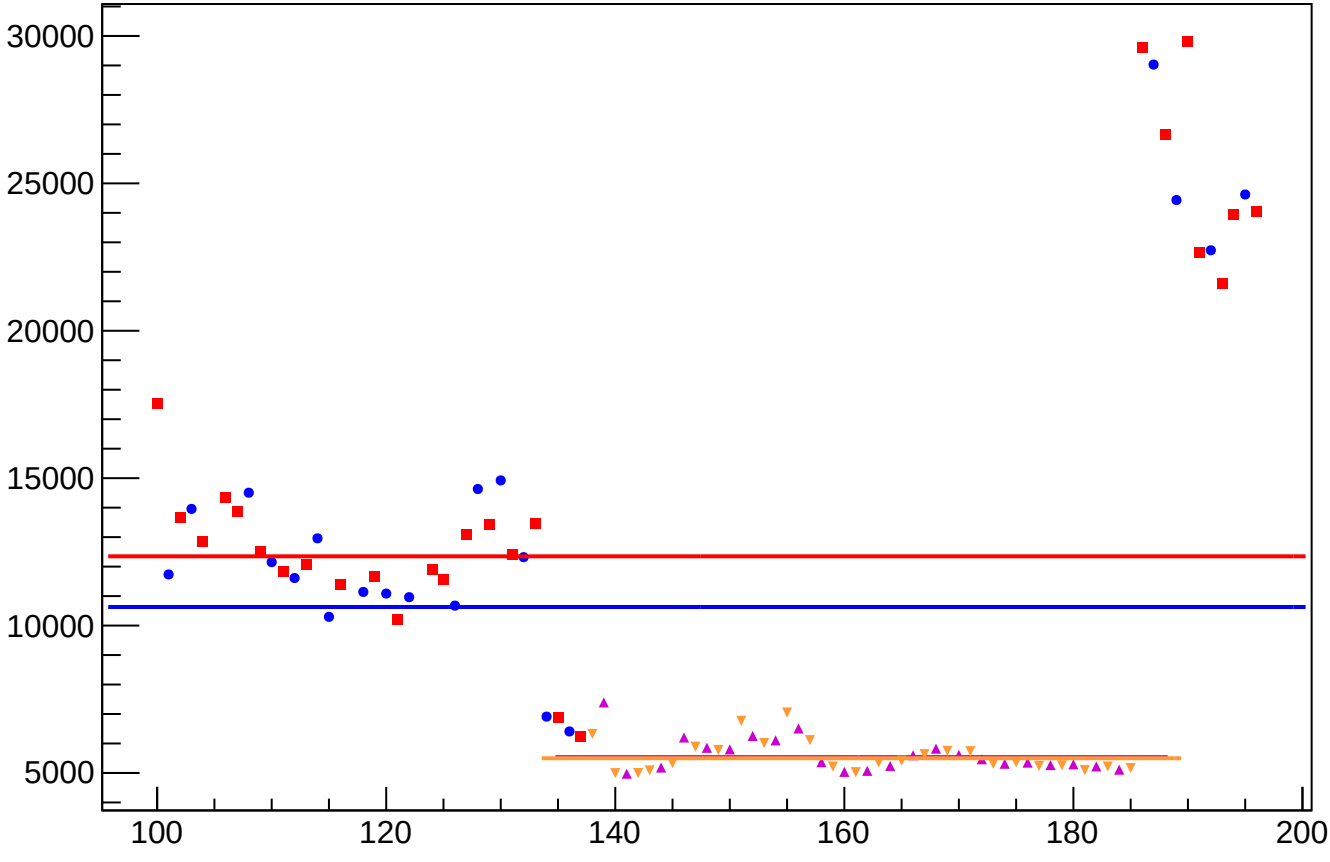
Right: -0.229+/-2.675 $\chi^2$/NDF: 50.8/45

In: 0.516+/-1.227 $\chi^2$/NDF:55.2/42

Out: 4.469+/-1.196 $\chi^2$/NDF:92.6/50

All: 2.544+/-0.856 $\chi^2$/NDF: 153.1/93

# diff_bpm16X_rms vs Slug, Sign Corrected




Right In: 10629.503+/-2.618 $\chi^2$/NDF: 2912084.9/19

Left Out: 5499.215+/-0.889 $\chi^2$/NDF:297719.4/24

Right Out: 12348.976+/-2.735 $\chi^2$/NDF: 3394193.7/25

Left In: 5537.777+/-0.920 $\chi^2$/NDF:304062.1/22

Left: 5517.842+/-0.639 $\chi^2$/NDF: 602690.2/47

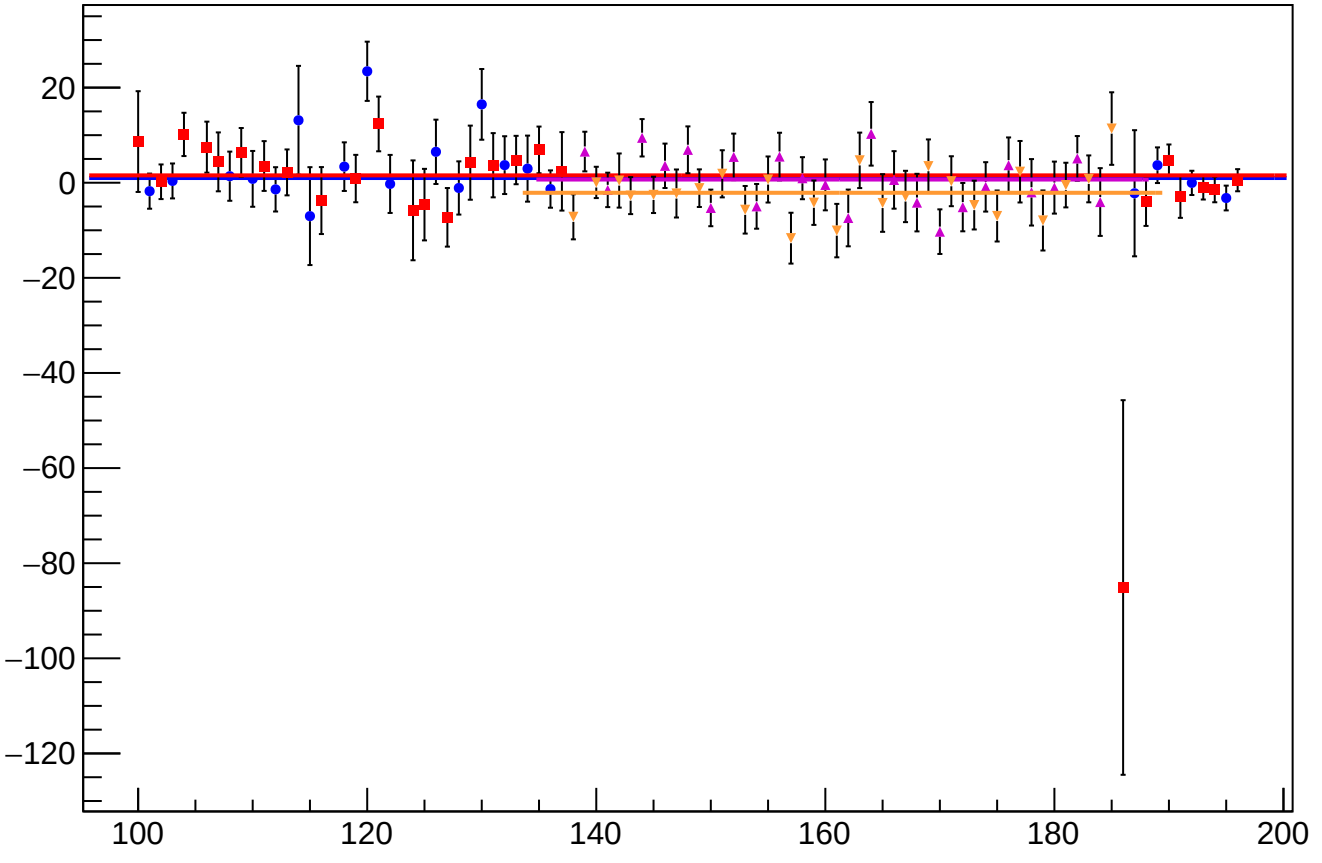
Right: 11451.673+/-1.891 $\chi^2$/NDF: 6512530.9/45

In: 6097.200+/-0.868 $\chi^2$/NDF:6583014.8/42

Out: 6153.898+/-0.846 $\chi^2$/NDF:9364573.5/50

All: 6126.285+/-0.606 $\chi^2$/NDF: 15949778.1/9

# diff_bpm16Y_mean vs Slug, Sign Corrected




Right In: 0.989+/-1.036 $\chi^2$/NDF: 25.0/19

Left Out: -2.116+/-0.987 $\chi^2$/NDF:17.5/24

Right Out: 1.548+/-0.896 $\chi^2$/NDF: 26.2/25

Left In: 0.670+/-1.031 $\chi^2$/NDF:28.4/22

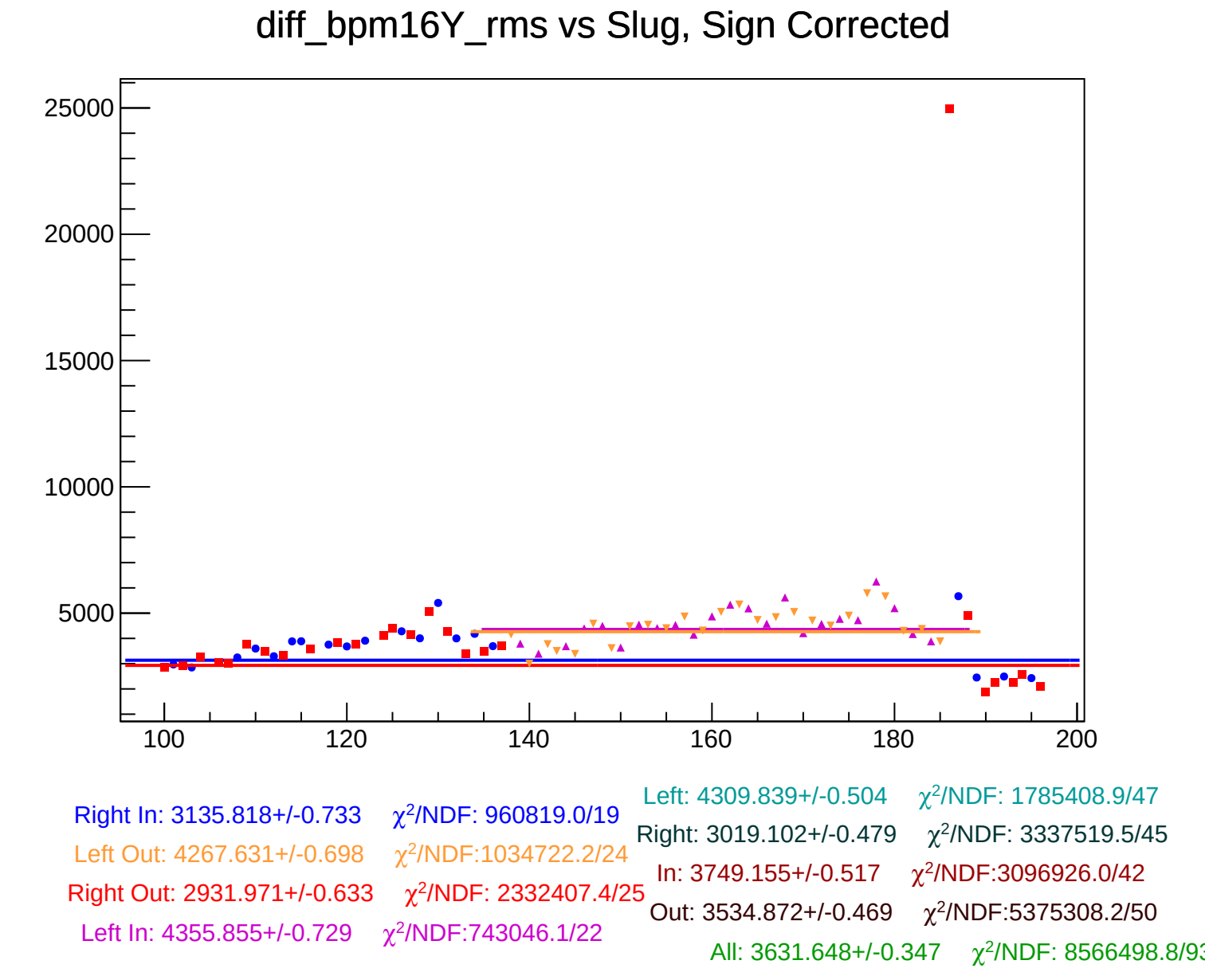
Left: -0.783+/-0.713 $\chi^2$/NDF: 49.6/47

Right: 1.309+/-0.678 $\chi^2$/NDF: 51.3/45

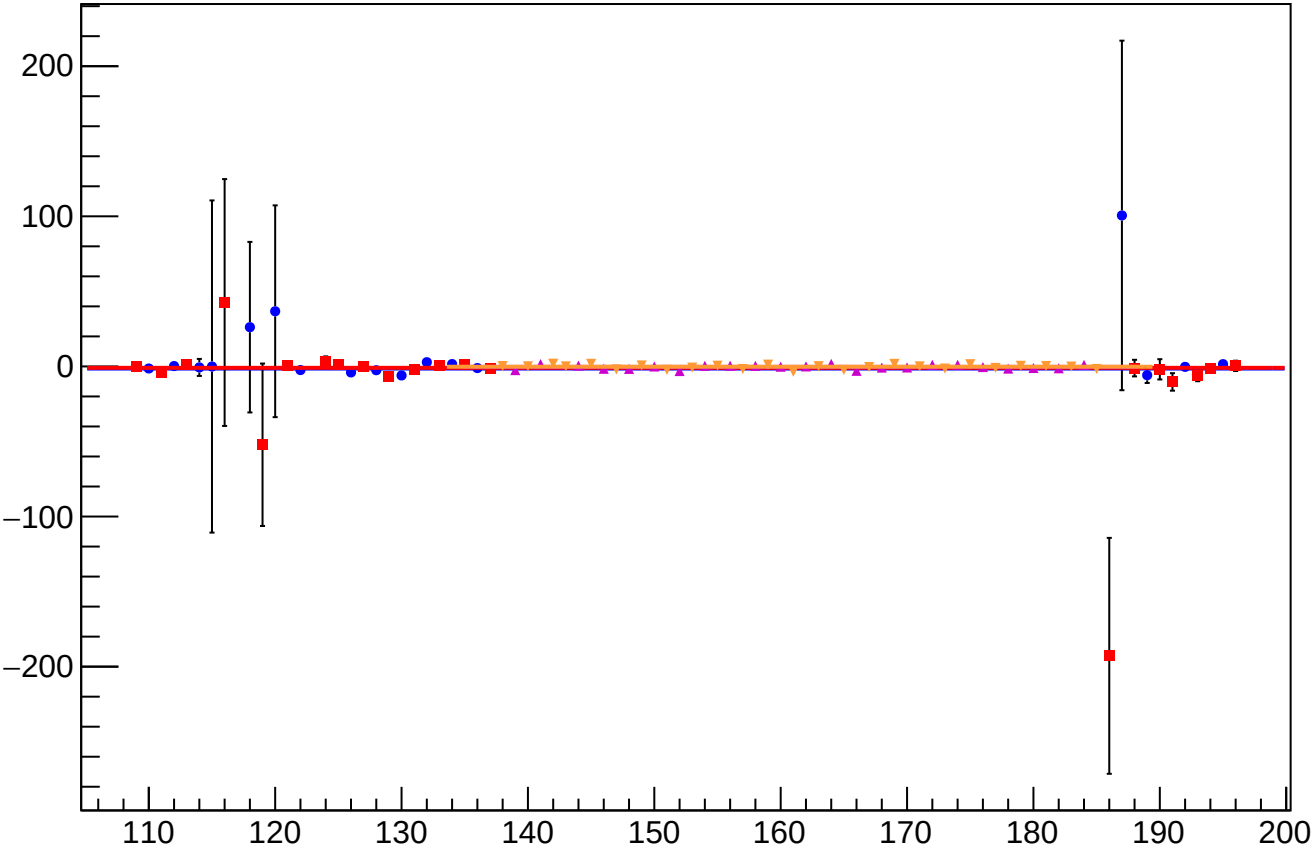
In: 0.829+/-0.731 $\chi^2$/NDF:53.4/42

Out: -0.106+/-0.663 $\chi^2$/NDF:51.2/50

All: 0.316+/-0.491 $\chi^2$/NDF: 105.5/93


diff_bpm16Y_rms vs Slug, Sign Corrected
25000
20000
15000
10000
5000
100
120
140
160
180
200
Right In: 3135.818+/-0.733 χ²/NDF: 960819.0/19
Left Out: 4267.631+/-0.698 χ²/NDF:1034722.2/24
Right Out: 2931.971+/-0.633 χ²/NDF: 2332407.4/25
Left In: 4355.855+/-0.729 χ²/NDF:743046.1/22
Left: 4309.839+/-0.504 χ²/NDF: 1785408.9/47
Right: 3019.102+/-0.479 χ²/NDF: 3337519.5/45
In: 3749.155+/-0.517 χ²/NDF:3096926.0/42
Out: 3534.872+/-0.469 χ²/NDF:5375308.2/50
All: 3631.648+/-0.347 χ²/NDF: 8566498.8/93

# diff_bpm1p02bX_mean vs Slug, Sign Corrected




Right In: -1.401+/-0.690 $\chi^2$/NDF: 13.6/16

Left Out: -0.201+/-0.236 $\chi^2$/NDF:33.9/24

Right Out: -0.936+/-0.660 $\chi^2$/NDF: 24.0/20

Left In: -0.333+/-0.242 $\chi^2$/NDF:29.4/22

Left: -0.265+/-0.169 $\chi^2$/NDF: 63.5/47

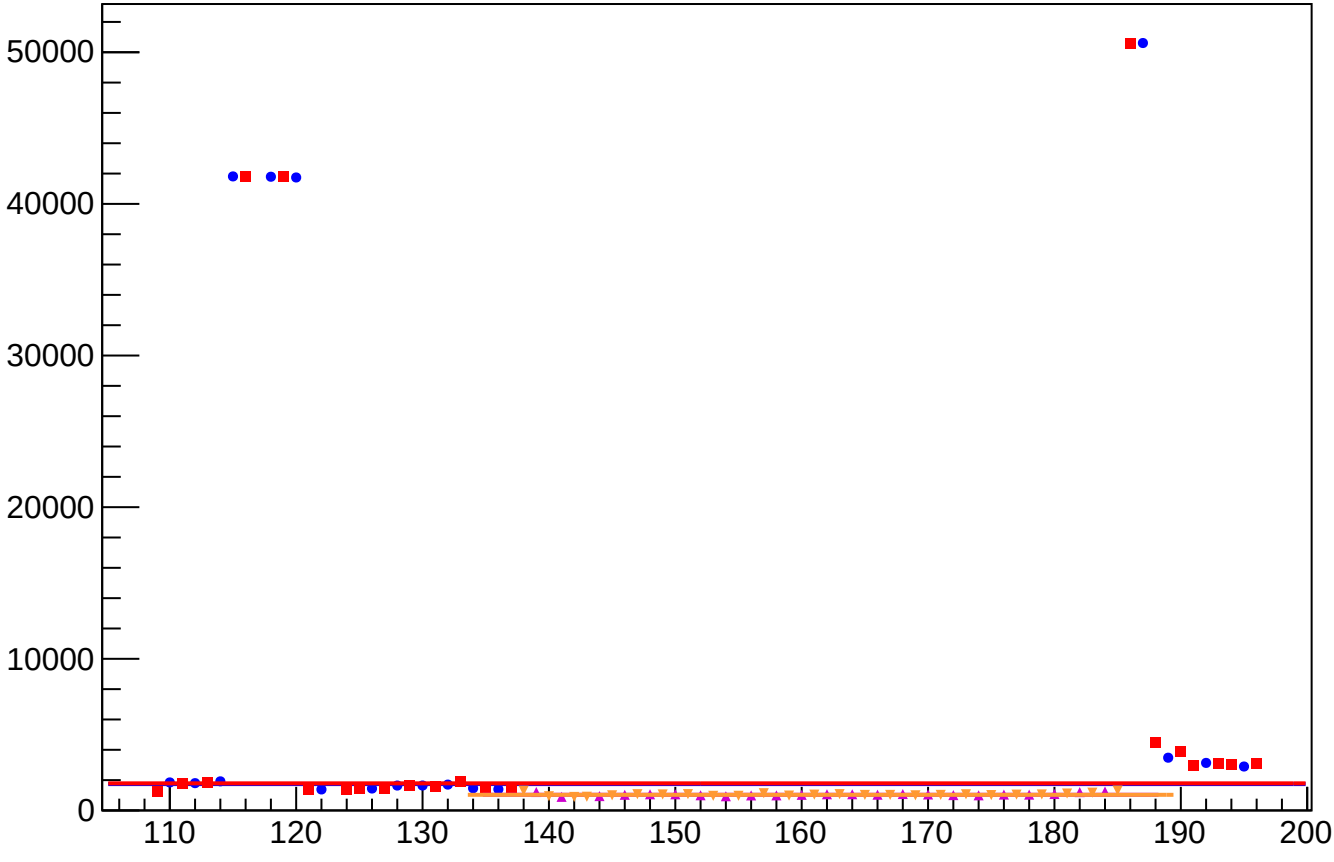
Right: -1.159+/-0.477 $\chi^2$/NDF: 37.9/37

In: -0.450+/-0.228 $\chi^2$/NDF:45.2/39

Out: -0.284+/-0.222 $\chi^2$/NDF:59.1/45

All: -0.365+/-0.159 $\chi^2$/NDF: 104.5/85

# diff_bpm1p02bX_rms vs Slug, Sign Corrected




Right In: 1738.433+/-0.488 $\chi^2$/NDF: 3366758.5/16

Left Out: 1031.473+/-0.167 $\chi^2$/NDF:244095.3/24

Right Out: 1788.032+/-0.467 $\chi^2$/NDF: 4388029.0/20

Left In: 1032.715+/-0.171 $\chi^2$/NDF:187148.3/22

Left: 1032.077+/-0.119 $\chi^2$/NDF: 431270.7/47

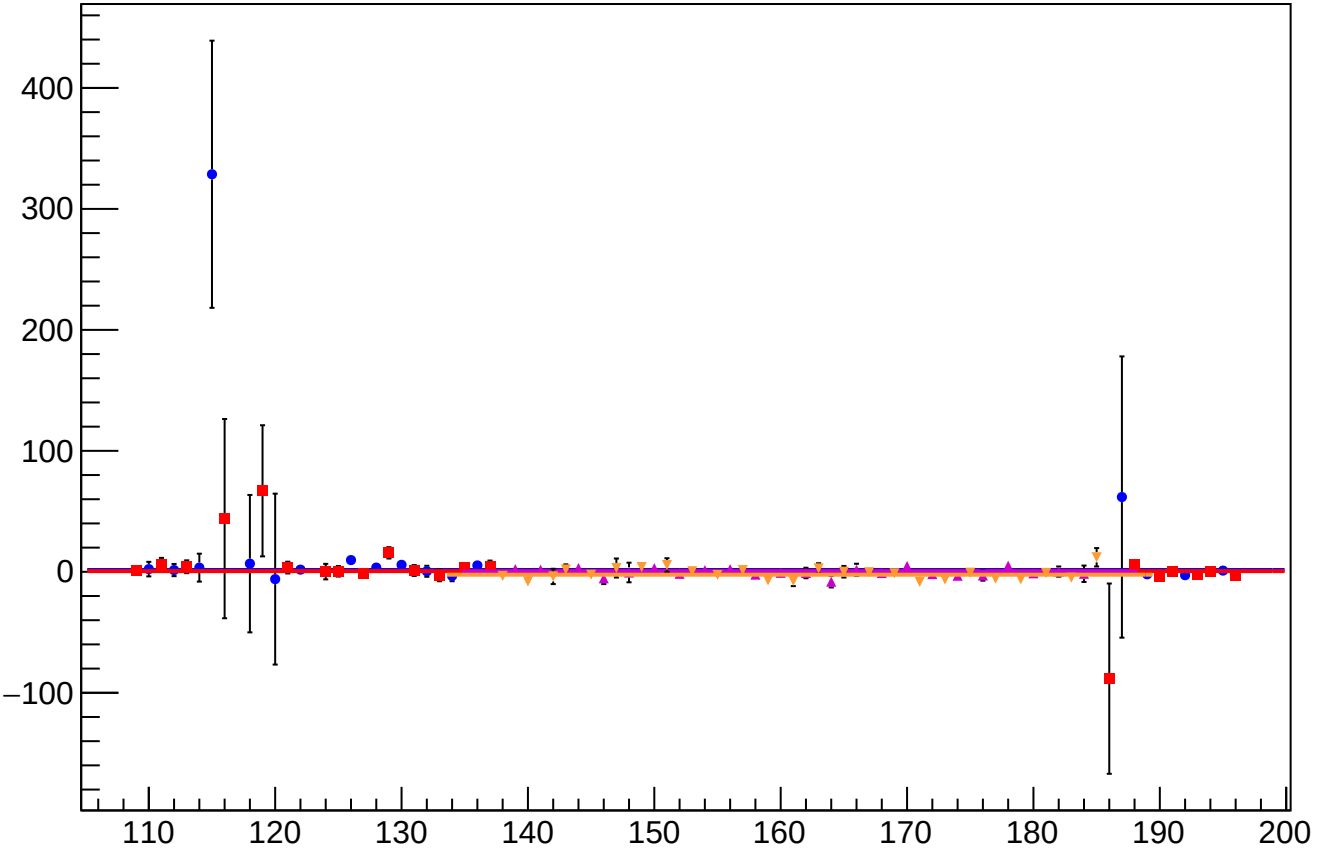
Right: 1764.319+/-0.337 $\chi^2$/NDF: 7760181.2/37

In: 1110.110+/-0.162 $\chi^2$/NDF:5416707.6/39

Out: 1116.831+/-0.157 $\chi^2$/NDF:6960924.2/45

All: 1113.570+/-0.113 $\chi^2$/NDF: 12378522.8/8

# diff_bpm1p02bY_mean vs Slug, Sign Corrected




Right In: 1.489+/-0.914 $\chi^2$/NDF: 24.4/16

Left Out: -2.380+/-0.782 $\chi^2$/NDF:24.3/24

Right Out: 0.576+/-0.803 $\chi^2$/NDF: 26.8/20

Left In: 0.171+/-0.810 $\chi^2$/NDF:12.6/22

Left: -1.149+/-0.563 $\chi^2$/NDF: 42.1/47

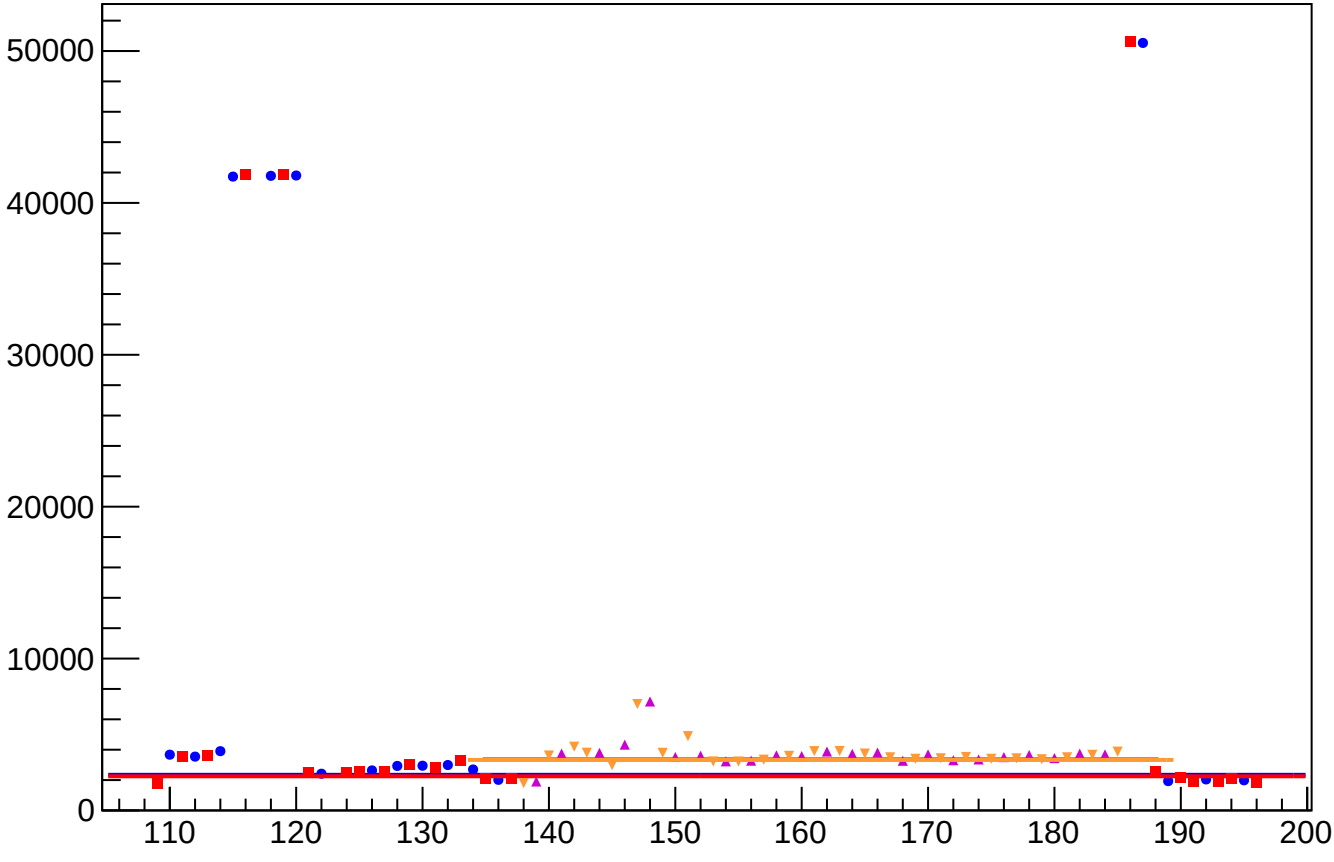
Right: 0.973+/-0.603 $\chi^2$/NDF: 51.7/37

In: 0.750+/-0.606 $\chi^2$/NDF:38.2/39

Out: -0.940+/-0.560 $\chi^2$/NDF:58.0/45

All: -0.161+/-0.411 $\chi^2$/NDF: 100.5/85

# diff_bpm1p02bY_rms vs Slug, Sign Corrected




Right In: 2345.812+/-0.646 $\chi^2$/NDF: 2763166.9/16

Left Out: 3328.251+/-0.553 $\chi^2$/NDF:1915576.2/24

Right Out: 2249.564+/-0.567 $\chi^2$/NDF: 2977620.3/20

Left In: 3360.799+/-0.572 $\chi^2$/NDF:1649390.5/22

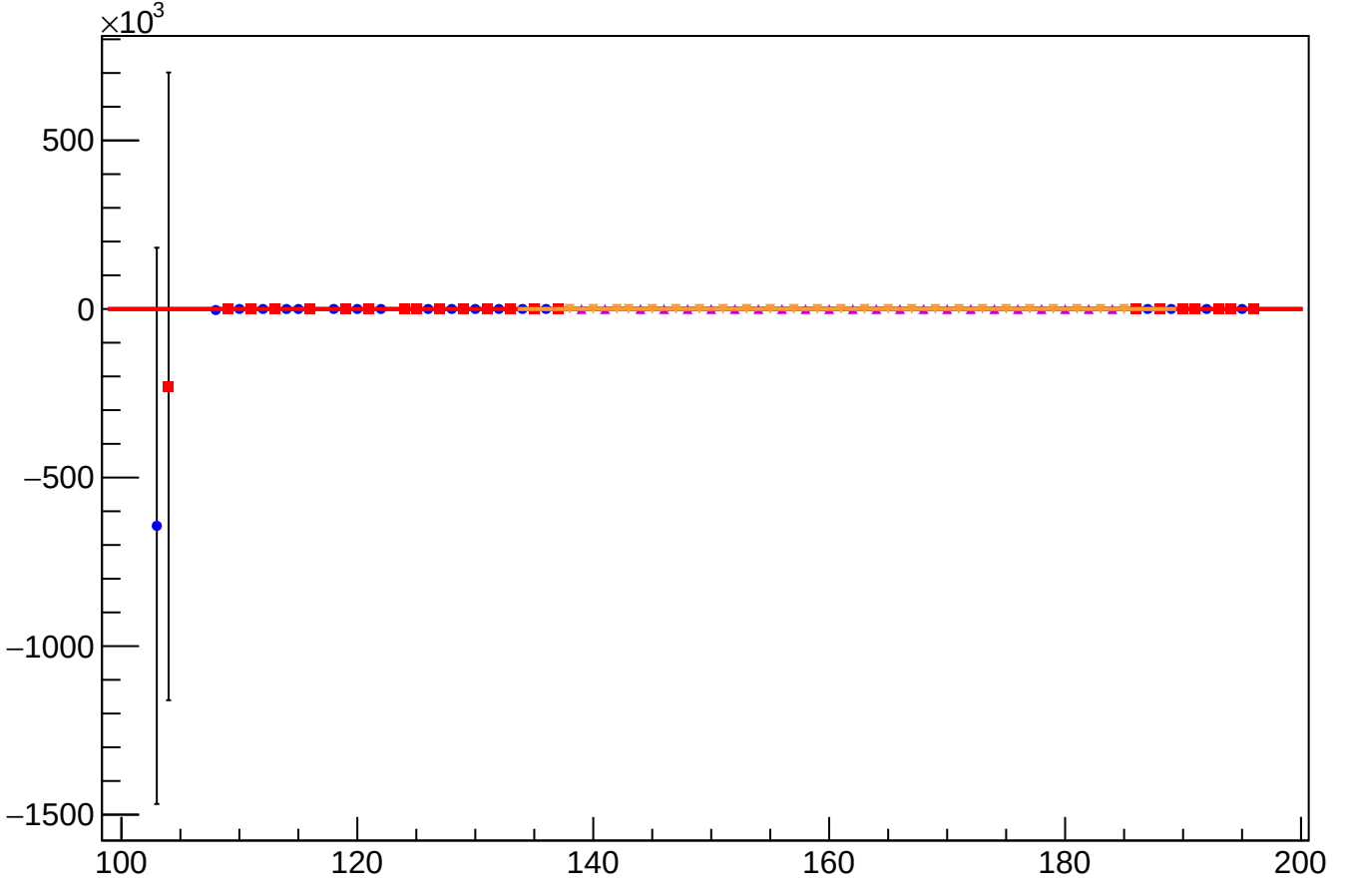
Left: 3343.963+/-0.398 $\chi^2$/NDF: 3566638.9/47

Right: 2291.462+/-0.426 $\chi^2$/NDF: 5753310.3/37

In: 2914.564+/-0.429 $\chi^2$/NDF:5794537.9/39

Out: 2802.808+/-0.396 $\chi^2$/NDF:6746449.0/45

All: 2854.290+/-0.291 $\chi^2$/NDF: 12577665.3/8




Right In: -0.925+/-0.869 $\chi^2$/NDF: 20.0/18

Left Out: -1.573+/-0.363 $\chi^2$/NDF:50.3/24

Right Out: 2.241+/-0.800 $\chi^2$/NDF: 22.4/21

Left In: -0.018+/-0.374 $\chi^2$/NDF:27.3/22

Left: -0.819+/-0.261 $\chi^2$/NDF: 86.5/47

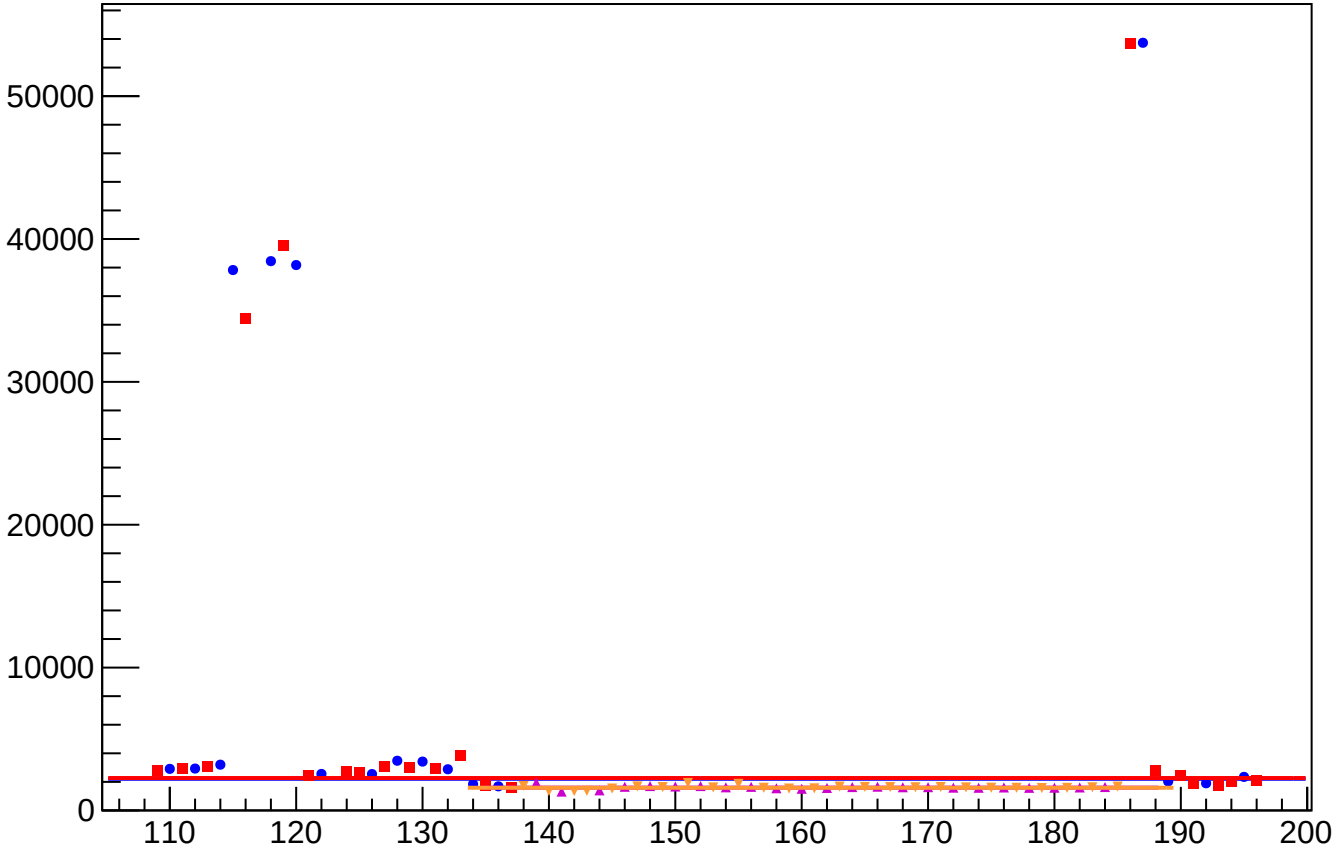
Right: 0.789+/-0.589 $\chi^2$/NDF: 49.5/40

In: -0.160+/-0.344 $\chi^2$/NDF:48.2/41

Out: -0.922+/-0.330 $\chi^2$/NDF:91.5/46

All: -0.556+/-0.238 $\chi^2$/NDF: 142.3/88

# diff_bpm1p03aX_rms vs Slug, Sign Corrected




Right In: 2217.729+/-0.615 $\chi^2$/NDF: 2891655.1/16

Left Out: 1589.488+/-0.257 $\chi^2$/NDF:232518.0/24

Right Out: 2268.811+/-0.566 $\chi^2$/NDF: 3149724.9/20

Left In: 1596.179+/-0.265 $\chi^2$/NDF:196833.1/22

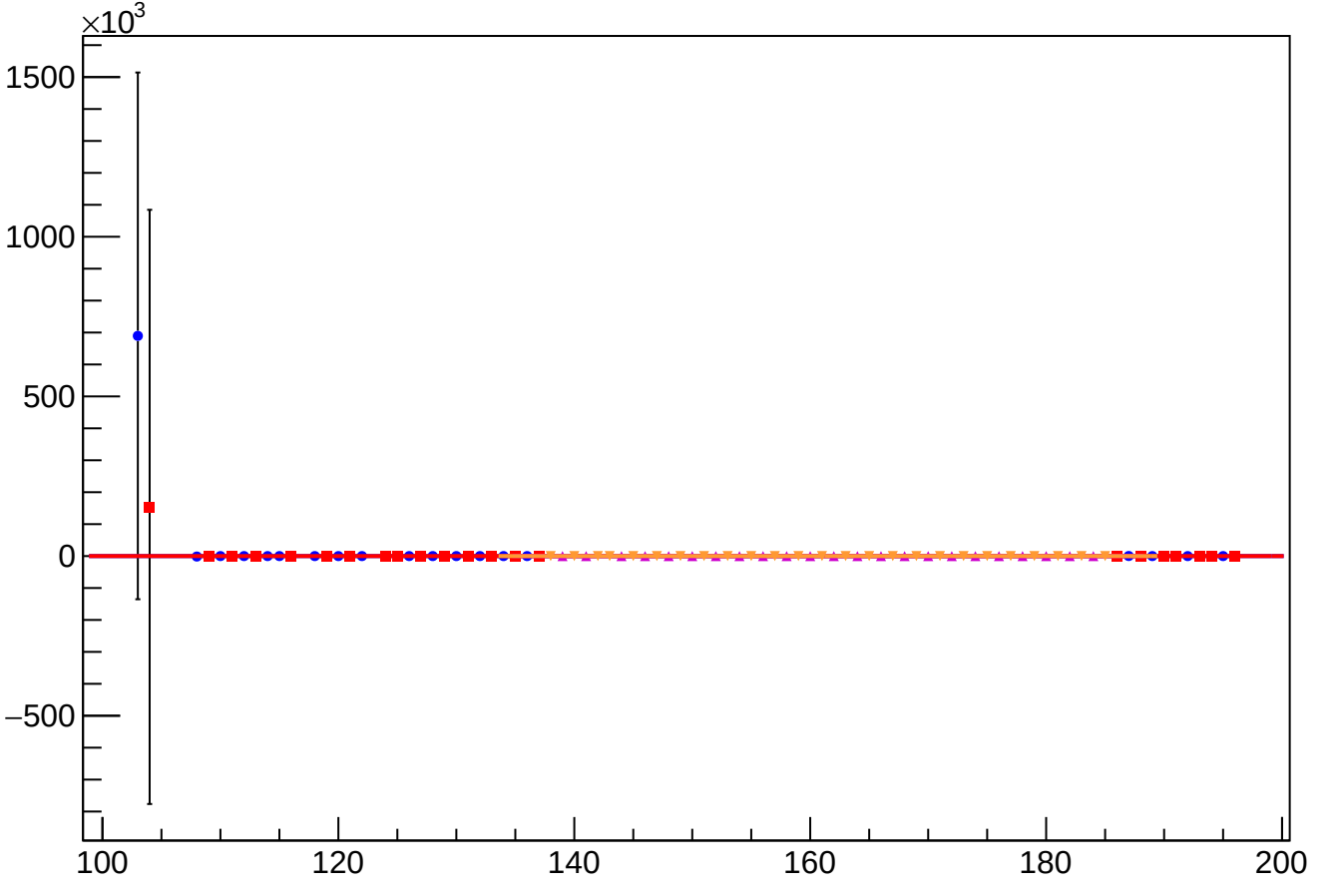
Left: 1592.729+/-0.184 $\chi^2$/NDF: 429680.4/47

Right: 2245.382+/-0.416 $\chi^2$/NDF: 6045119.8/37

In: 1693.480+/-0.243 $\chi^2$/NDF:3951147.2/39

Out: 1705.419+/-0.234 $\chi^2$/NDF:4578216.6/45

All: 1699.686+/-0.168 $\chi^2$/NDF: 8530617.0/85




Right In: 0.580+/-0.762 $\chi^2$/NDF: 12.6/18

Left Out: -1.179+/-0.502 $\chi^2$/NDF:24.4/24

Right Out: 0.105+/-0.667 $\chi^2$/NDF: 26.0/21

Left In: -0.125+/-0.501 $\chi^2$/NDF:16.9/22

Left: -0.651+/-0.355 $\chi^2$/NDF: 43.5/47

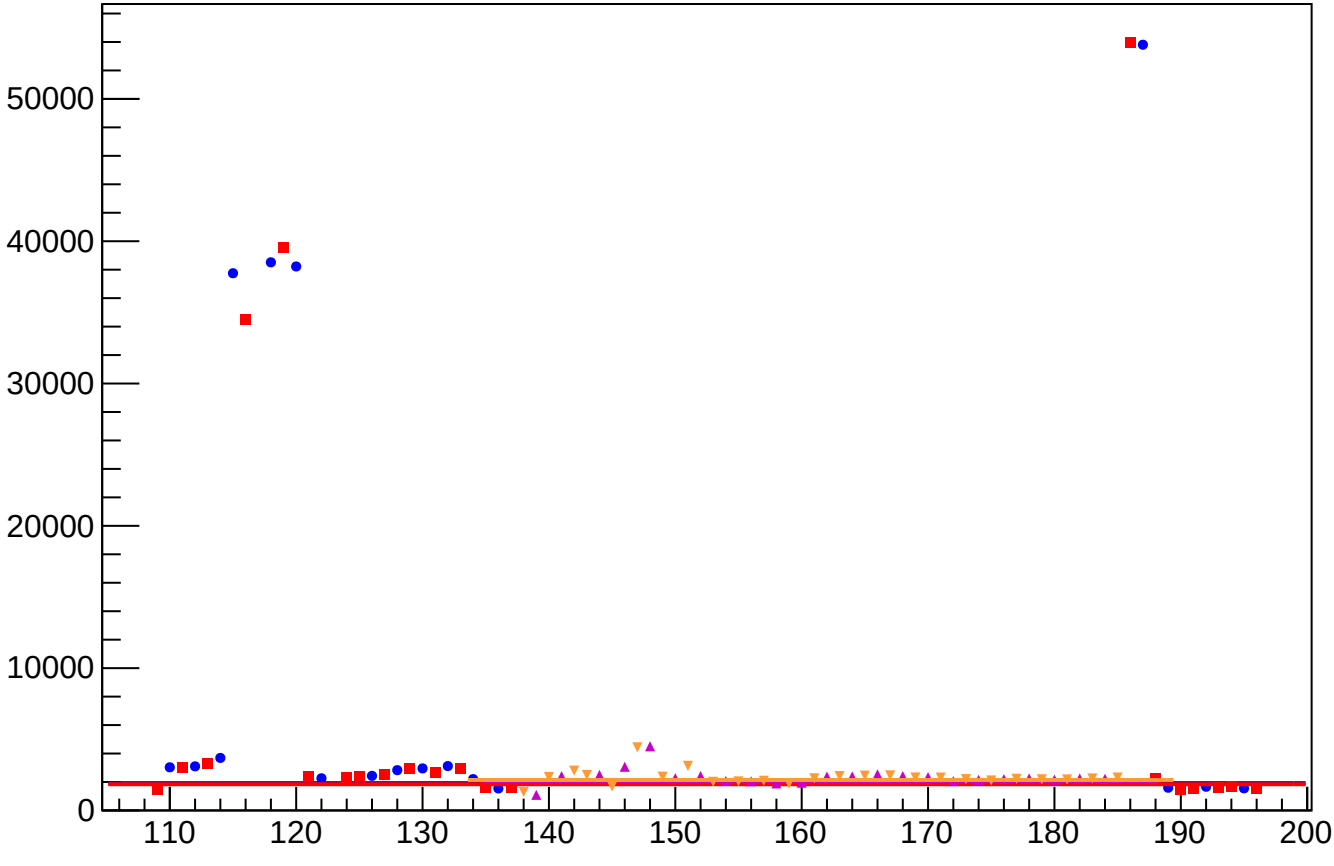
Right: 0.311+/-0.502 $\chi^2$/NDF: 38.9/40

In: 0.089+/-0.419 $\chi^2$/NDF:30.1/41

Out: -0.714+/-0.401 $\chi^2$/NDF:52.8/46

All: -0.330+/-0.290 $\chi^2$/NDF: 84.8/88

# diff_bpm1p03aY_rms vs Slug, Sign Corrected




Right In: 1919.668+/-0.539 $\chi^2$/NDF: 3208703.8/16

Left Out: 2139.248+/-0.355 $\chi^2$/NDF:1480000.5/24

Right Out: 1843.748+/-0.471 $\chi^2$/NDF: 3405733.8/20

Left In: 2058.216+/-0.354 $\chi^2$/NDF:2293601.6/22

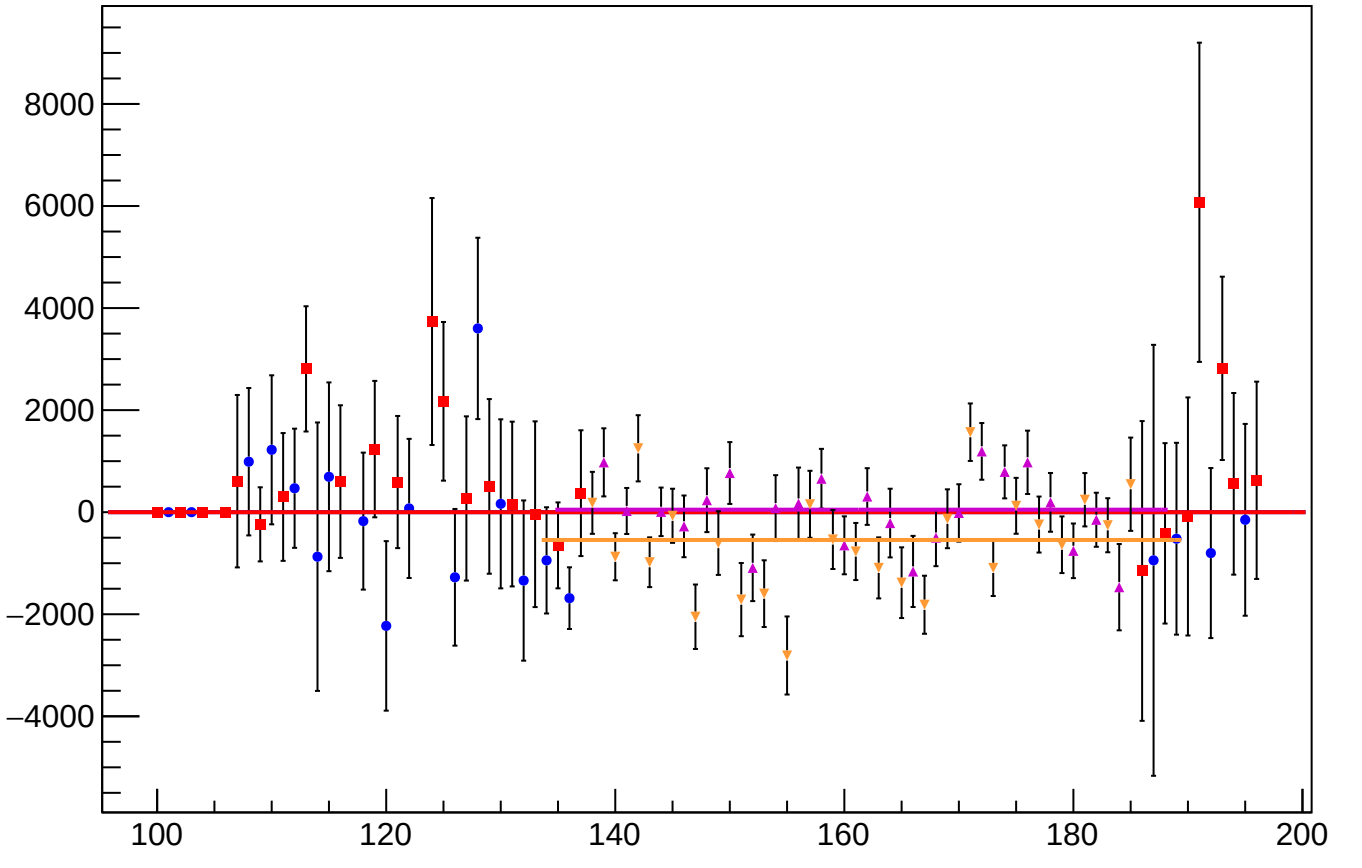
Left: 2098.634+/-0.251 $\chi^2$/NDF: 3799672.6/47

Right: 1876.687+/-0.355 $\chi^2$/NDF: 6625686.8/37

In: 2016.347+/-0.296 $\chi^2$/NDF:5548481.4/39

Out: 2032.221+/-0.284 $\chi^2$/NDF:5136265.8/45

All: 2024.622+/-0.205 $\chi^2$/NDF: 10686245.6/8




Right In: 0.255+/-0.356 $\chi^2$/NDF: 18.1/19

Left Out: -544.414+/-117.154 $\chi^2$/NDF:60.9/24

Right Out: -0.096+/-0.328 $\chi^2$/NDF: 22.1/25

Left In: 49.119+/-121.932 $\chi^2$/NDF:28.0/22

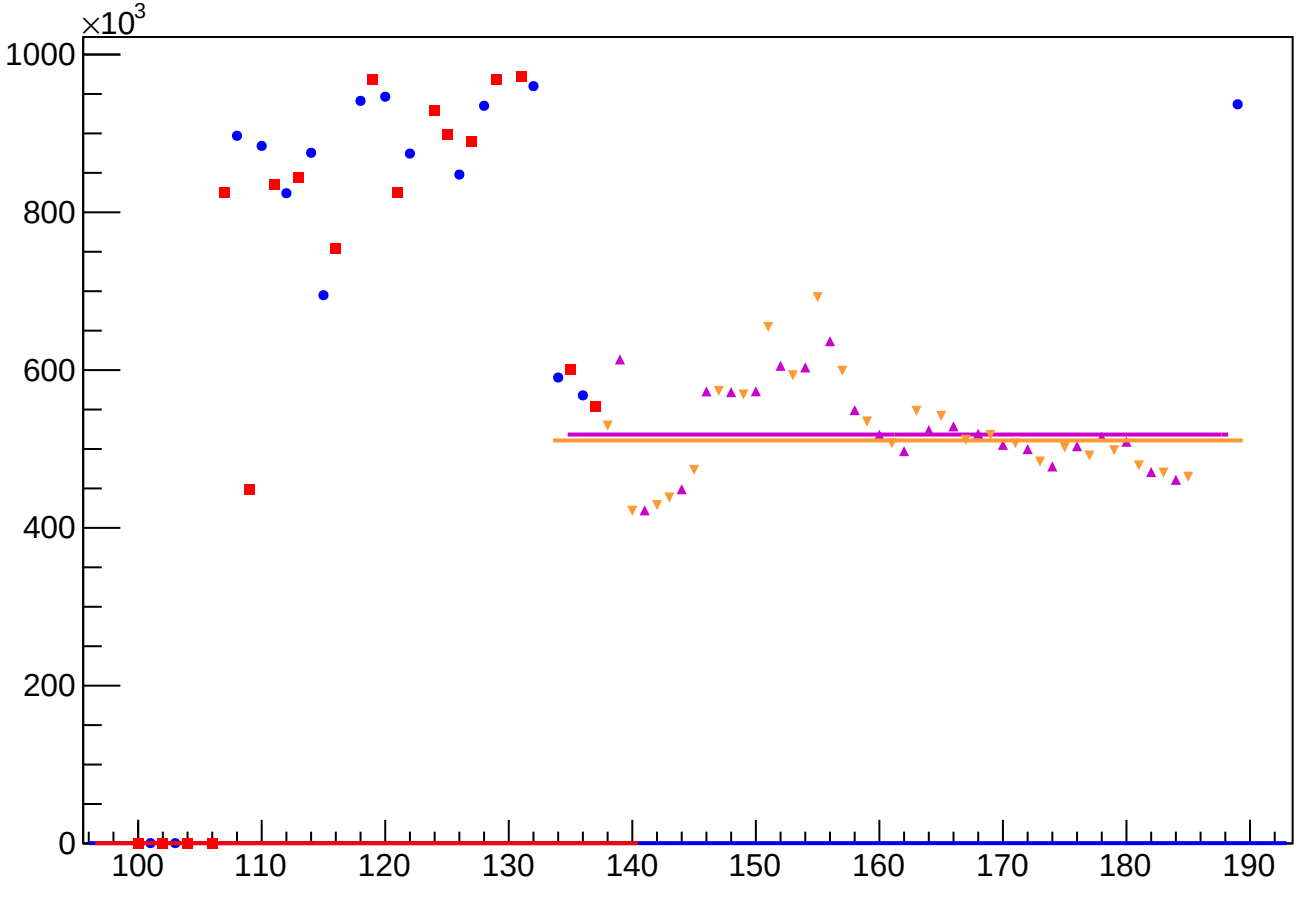
Left: -259.505+/-84.479 $\chi^2$/NDF: 101.1/47

Right: 0.065+/-0.241 $\chi^2$/NDF: 40.7/45

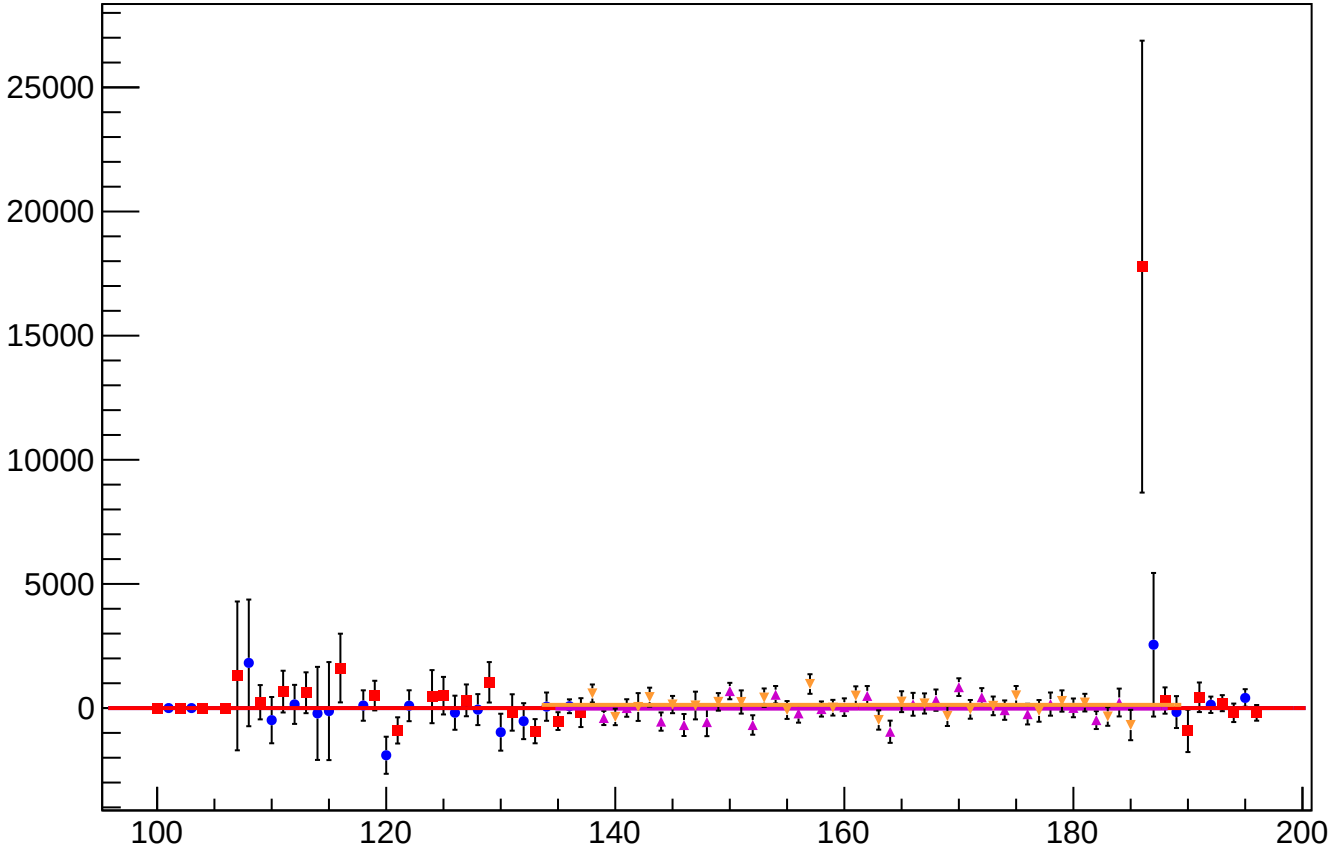
In: 0.256+/-0.356 $\chi^2$/NDF:46.2/42

Out: -0.100+/-0.328 $\chi^2$/NDF:104.5/50

All: 0.063+/-0.241 $\chi^2$/NDF: 151.3/93


diff_cav4bX_rms vs Slug, Sign Corrected
×10^3
1000
800
600
400
200
0
100
110
120
130
140
150
160
170
180
190
Right In: 398.894+/-0.251 χ²/NDF: 8685185.3/15
Left Out: 510811.545+/-82.841 χ²/NDF:509606.7/24
Right Out: 393.240+/-0.232 χ²/NDF: 7648578.2/17
Left In: 518313.411+/-86.219 χ²/NDF:399884.6/22
Left: 514412.615+/-59.736 χ²/NDF: 913427.9/47
Right: 395.837+/-0.170 χ²/NDF: 16334036.8/33
In: 403.300+/-0.251 χ²/NDF:45168150.0/38
Out: 397.235+/-0.232 χ²/NDF:46121298.2/42
All: 400.021+/-0.170 χ²/NDF: 91289762.7/81

# diff_cav4bY_mean vs Slug, Sign Corrected




Right In: -0.020+/-0.347 $\chi^2$/NDF: 12.8/19

Left Out: 128.971+/-78.249 $\chi^2$/NDF:20.1/24

Right Out: -0.599+/-0.324 $\chi^2$/NDF: 21.8/25

Left In: -19.324+/-79.767 $\chi^2$/NDF:33.7/22

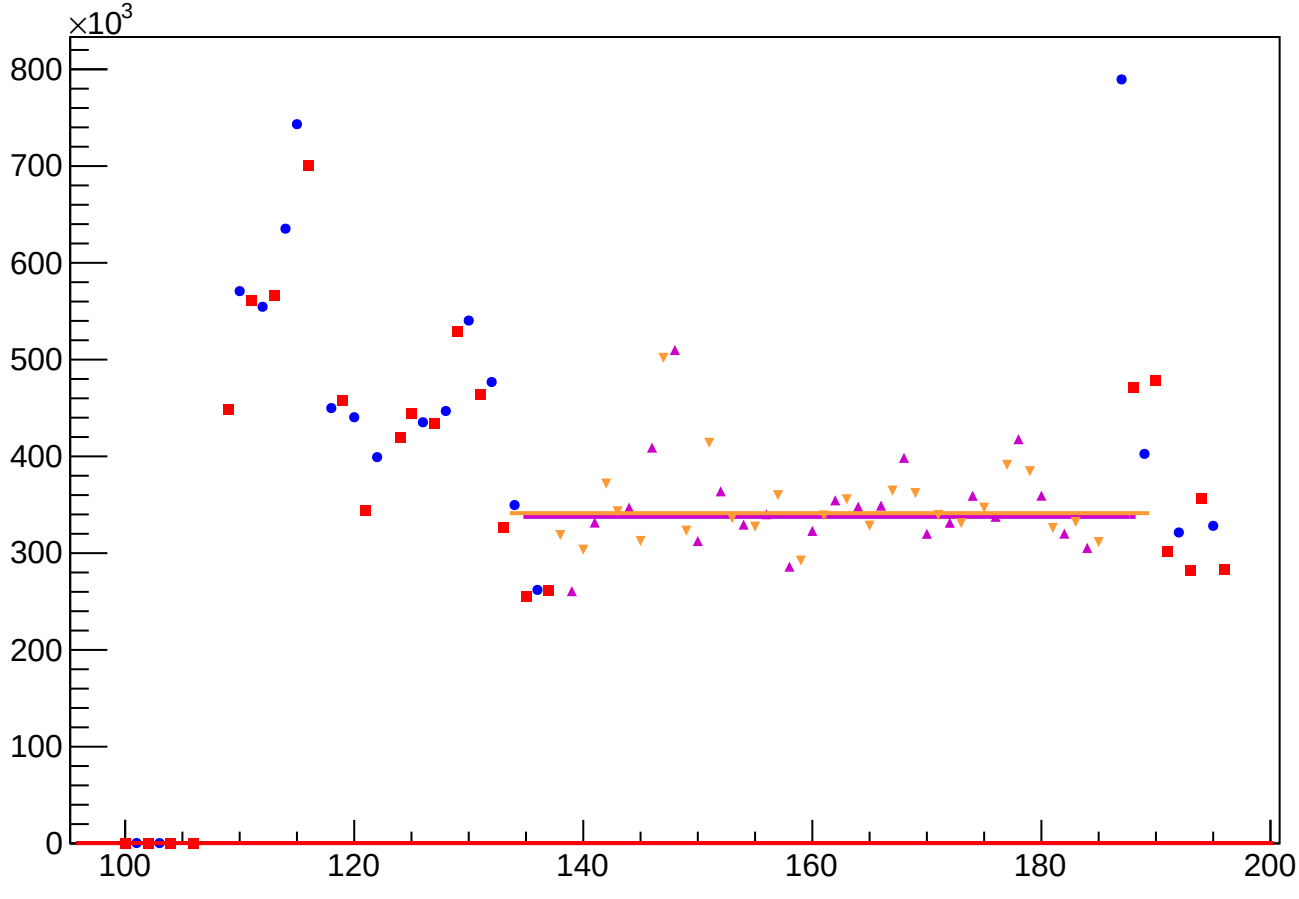
Left: 56.249+/-55.859 $\chi^2$/NDF: 55.5/47

Right: -0.329+/-0.237 $\chi^2$/NDF: 36.1/45

In: -0.020+/-0.347 $\chi^2$/NDF:46.6/42

Out: -0.597+/-0.324 $\chi^2$/NDF:44.7/50

All: -0.328+/-0.237 $\chi^2$/NDF: 92.7/93




Right In: 391.065+/-0.245 $\chi^2$/NDF: 15550449.7/18

Left Out: 341327.149+/-55.330 $\chi^2$/NDF:403173.8/24

Right Out: 389.163+/-0.229 $\chi^2$/NDF: 18701083.5/23

Left In: 337505.654+/-56.407 $\chi^2$/NDF:600776.4/22

Left: 339453.220+/-39.500 $\chi^2$/NDF: 1006289.4/47

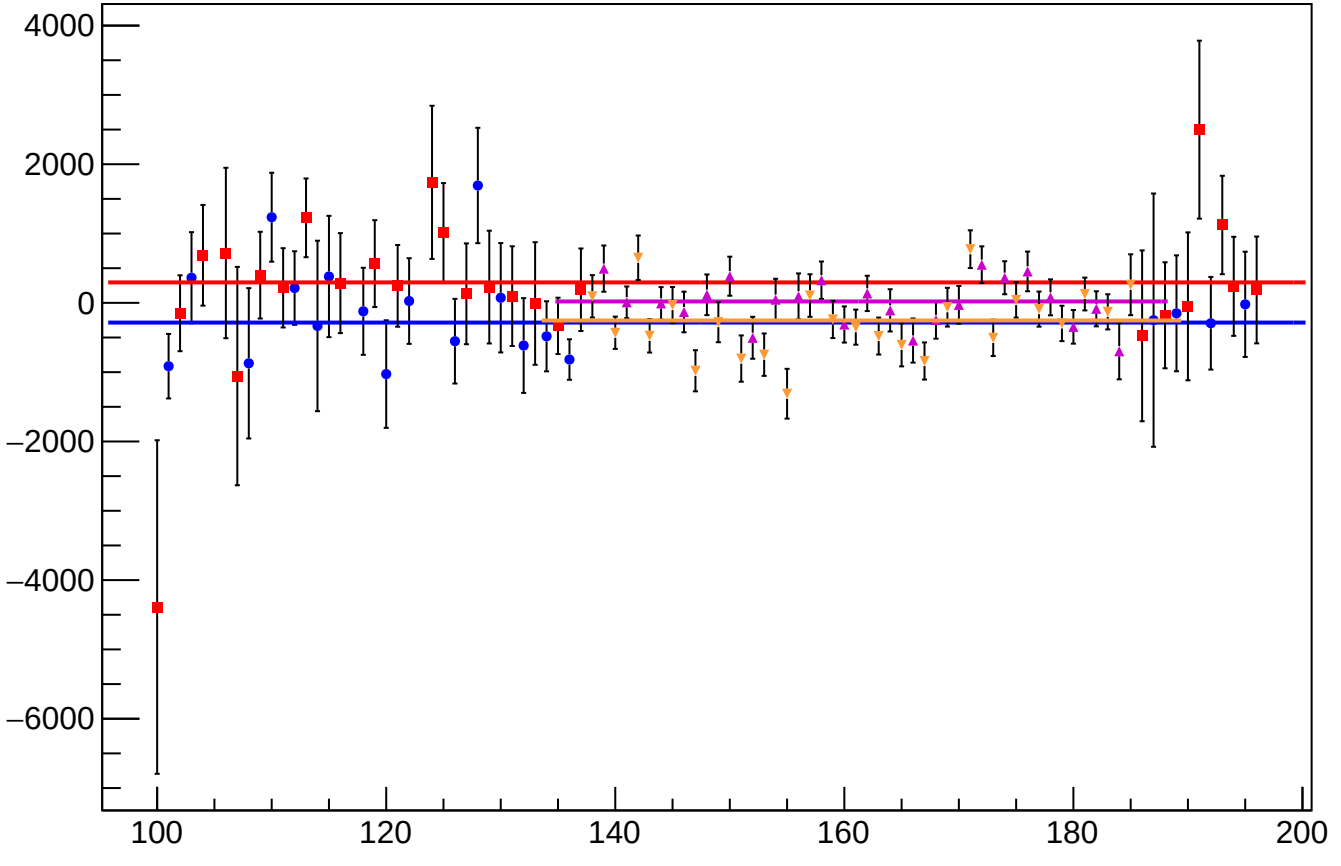
Right: 390.048+/-0.167 $\chi^2$/NDF: 34251565.3/42

In: 397.448+/-0.245 $\chi^2$/NDF:51868903.0/41

Out: 395.001+/-0.229 $\chi^2$/NDF:57072338.9/48

All: 396.140+/-0.167 $\chi^2$/NDF: 108941295.0/9

# diff_cav4cX_mean vs Slug, Sign Corrected




Right In: -284.446+/-139.009 $\chi^2$/NDF: 21.3/19

Left Out: -254.371+/-55.417 $\chi^2$/NDF:61.3/24

Right Out: 294.982+/-141.047 $\chi^2$/NDF: 19.1/25

Left In: 20.176+/-57.484 $\chi^2$/NDF:28.6/22

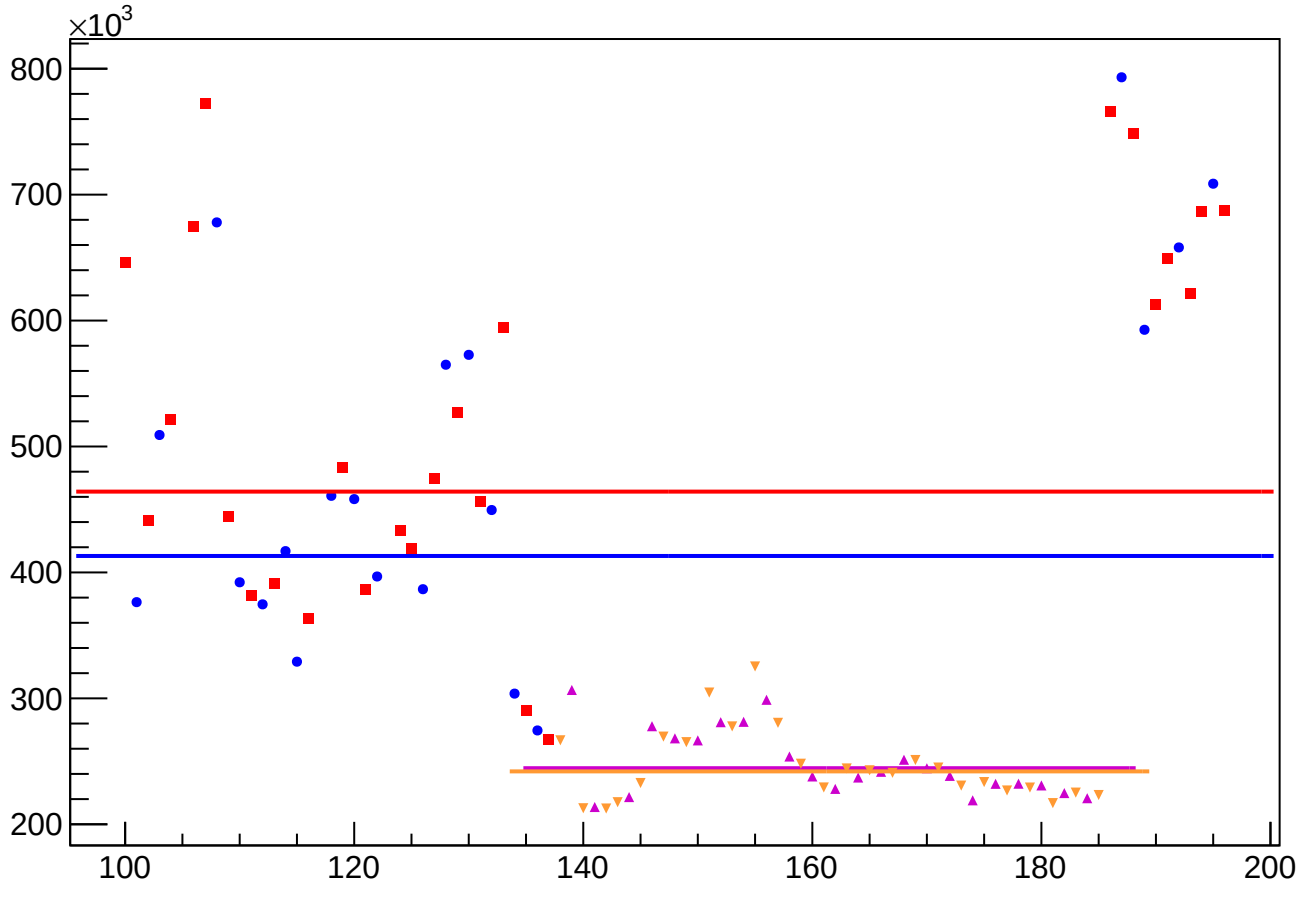
Left: -122.121+/-39.897 $\chi^2$/NDF: 101.7/47

Right: 1.052+/-99.007 $\chi^2$/NDF: 49.0/45

In: -24.309+/-53.121 $\chi^2$/NDF:54.0/42

Out: -180.908+/-51.579 $\chi^2$/NDF:93.6/50

All: -104.914+/-37.005 $\chi^2$/NDF: 152.0/93




Right In: 413071.975+/-98.310 $\chi^2$/NDF: 1676323.9/19

Left Out: 242008.749+/-39.186 $\chi^2$/NDF:413236.1/24

Right Out: 464176.733+/-99.830 $\chi^2$/NDF: 1886731.4/25

Left In: 244542.686+/-40.647 $\chi^2$/NDF:361527.4/22

Left: 243229.356+/-28.211 $\chi^2$/NDF: 776777.7/47

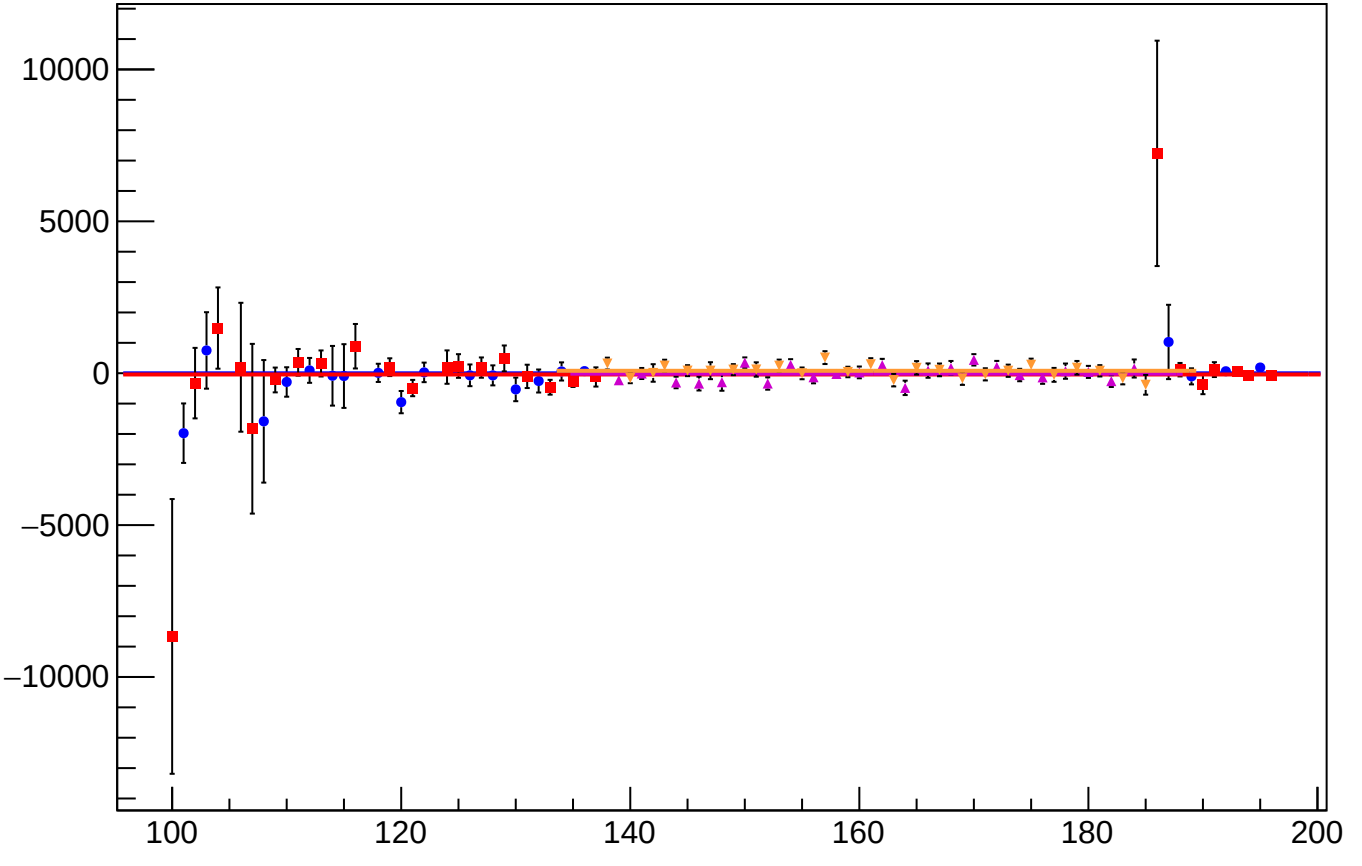
Right: 438232.516+/-70.047 $\chi^2$/NDF: 3696095.8/45

In: 269146.478+/-37.563 $\chi^2$/NDF:4547517.1/42

Out: 271670.125+/-36.477 $\chi^2$/NDF:6591468.9/50

All: 270445.330+/-26.169 $\chi^2$/NDF: 1114130

# diff_cav4cY_mean vs Slug, Sign Corrected




Right In: -3.312+/-63.854 $\chi^2$/NDF: 17.6/19

Left Out: 79.495+/-41.301 $\chi^2$/NDF:19.7/24

Right Out: -41.495+/-54.198 $\chi^2$/NDF: 25.6/25

Left In: -14.032+/-42.233 $\chi^2$/NDF:33.2/22

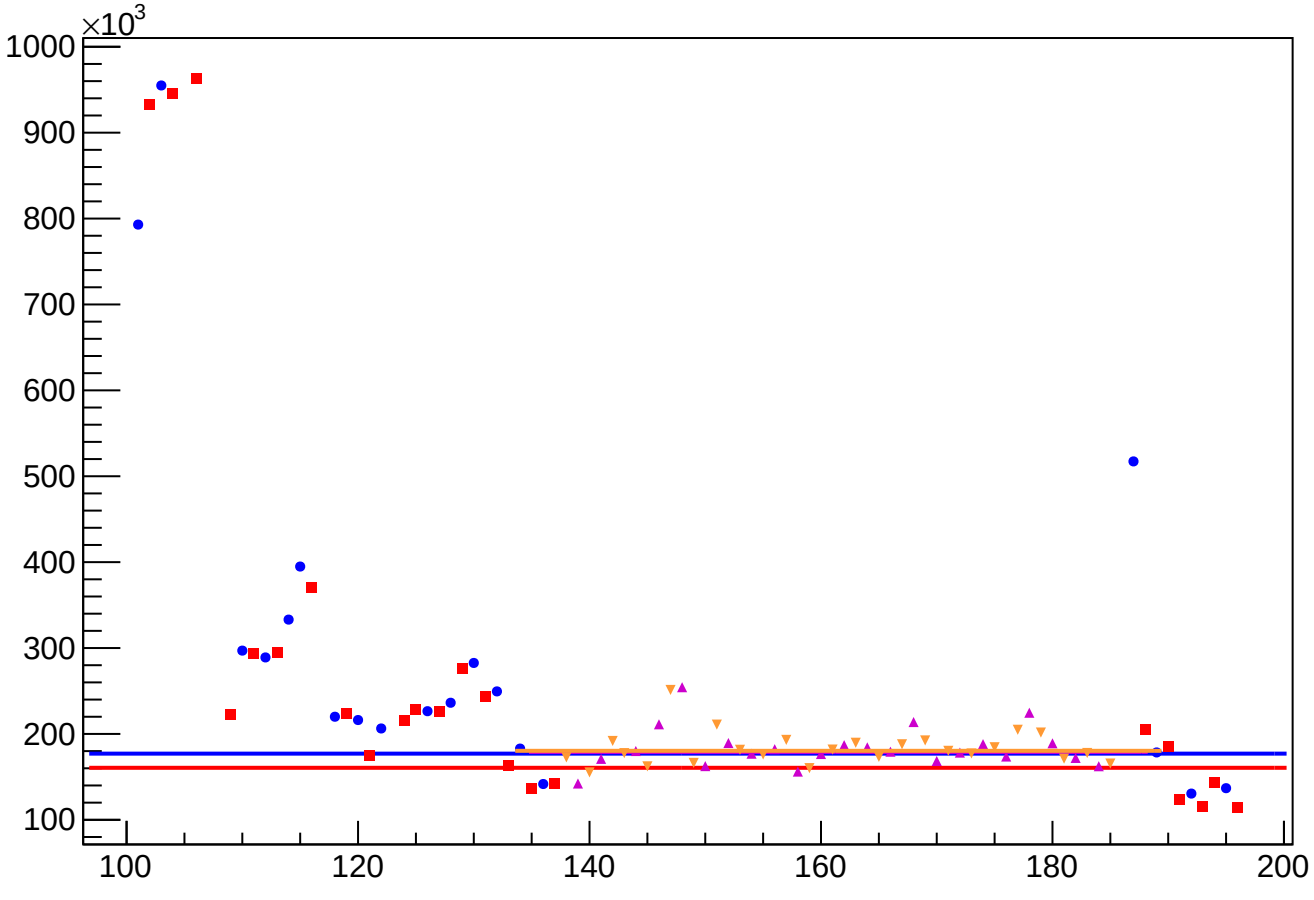
Left: 33.776+/-29.528 $\chi^2$/NDF: 55.4/47

Right: -25.506+/-41.321 $\chi^2$/NDF: 43.4/45

In: -10.770+/-35.226 $\chi^2$/NDF:50.8/42

Out: 35.048+/-32.850 $\chi^2$/NDF:48.5/50

All: 13.736+/-24.024 $\chi^2$/NDF: 100.2/93




Right In: 177062.850+/-45.193 $\chi^2$/NDF: 2781539.1/18

Left Out: 180342.867+/-29.204 $\chi^2$/NDF:346596.9/24

Right Out: 160571.247+/-38.365 $\chi^2$/NDF: 3215880.7/22

Left In: 179024.195+/-29.863 $\chi^2$/NDF:501400.7/22

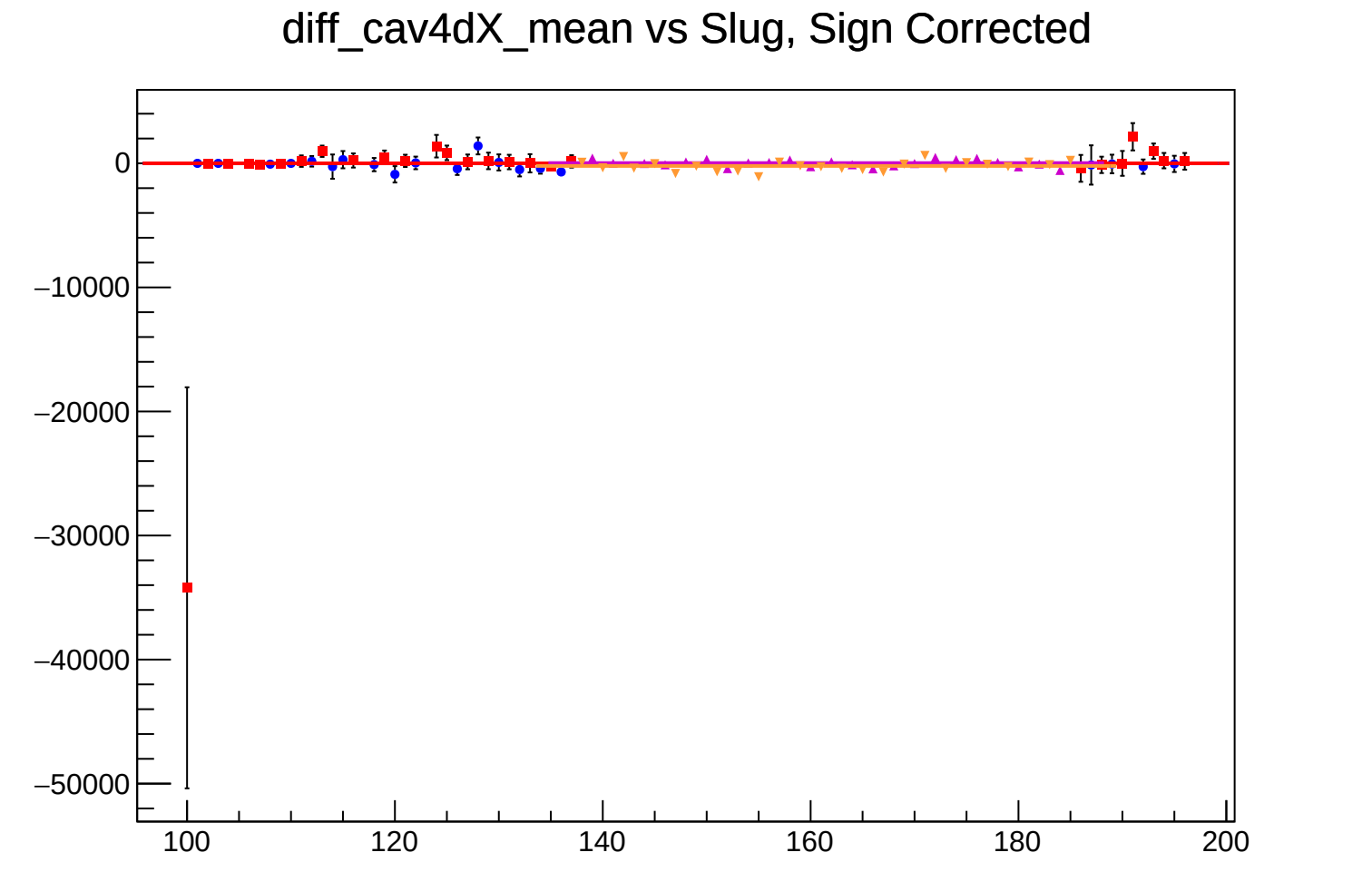
Left: 179698.251+/-20.880 $\chi^2$/NDF: 848994.3/47

Right: 167478.320+/-29.247 $\chi^2$/NDF: 6074811.6/41

In: 178428.065+/-24.915 $\chi^2$/NDF:3284250.9/41

Out: 173089.227+/-23.237 $\chi^2$/NDF:3730634.4/47

All: 175572.860+/-16.994 $\chi^2$/NDF: 7039441.




Right In: -0.035+/-0.172 $\chi^2$/NDF: 18.4/19

Left Out: -210.198+/-46.290 $\chi^2$/NDF:61.2/24

Right Out: 0.355+/-0.160 $\chi^2$/NDF: 23.1/25

Left In: 21.095+/-48.037 $\chi^2$/NDF:28.6/22

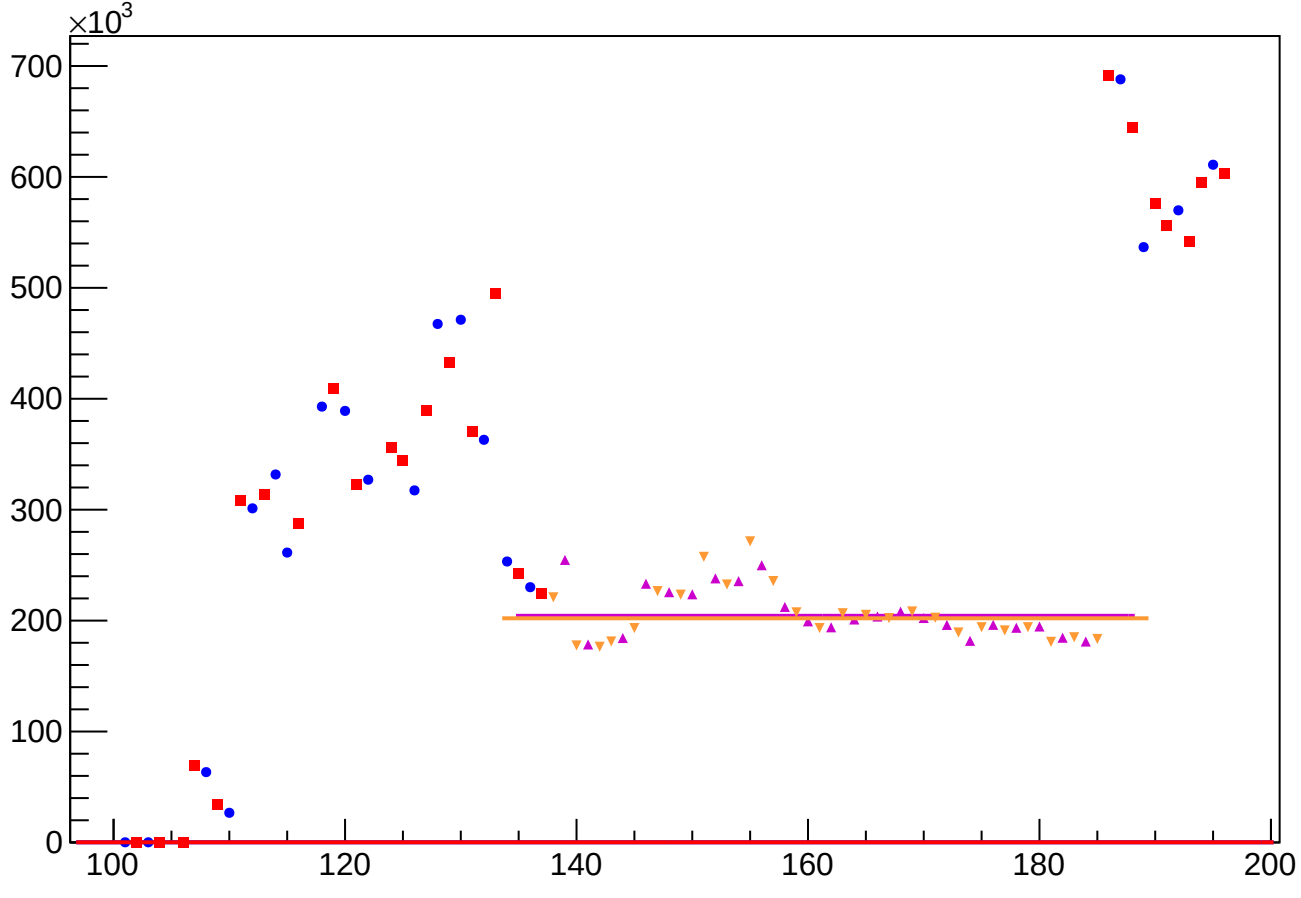
Left: -98.836+/-33.332 $\chi^2$/NDF: 101.8/47

Right: 0.174+/-0.117 $\chi^2$/NDF: 44.2/45

In: -0.035+/-0.172 $\chi^2$/NDF:47.1/42

Out: 0.353+/-0.160 $\chi^2$/NDF:105.0/50

All: 0.173+/-0.117 $\chi^2$/NDF: 154.8/93




Right In: 149.221+/-0.122 $\chi^2$/NDF: 16379512.8/19

Left Out: 202085.802+/-32.732 $\chi^2$/NDF:434069.3/24

Right Out: 149.568+/-0.113 $\chi^2$/NDF: 20165494.4/24

Left In: 204310.238+/-33.967 $\chi^2$/NDF:377332.3/22

Left: 203156.818+/-23.570 $\chi^2$/NDF: 813625.2/47

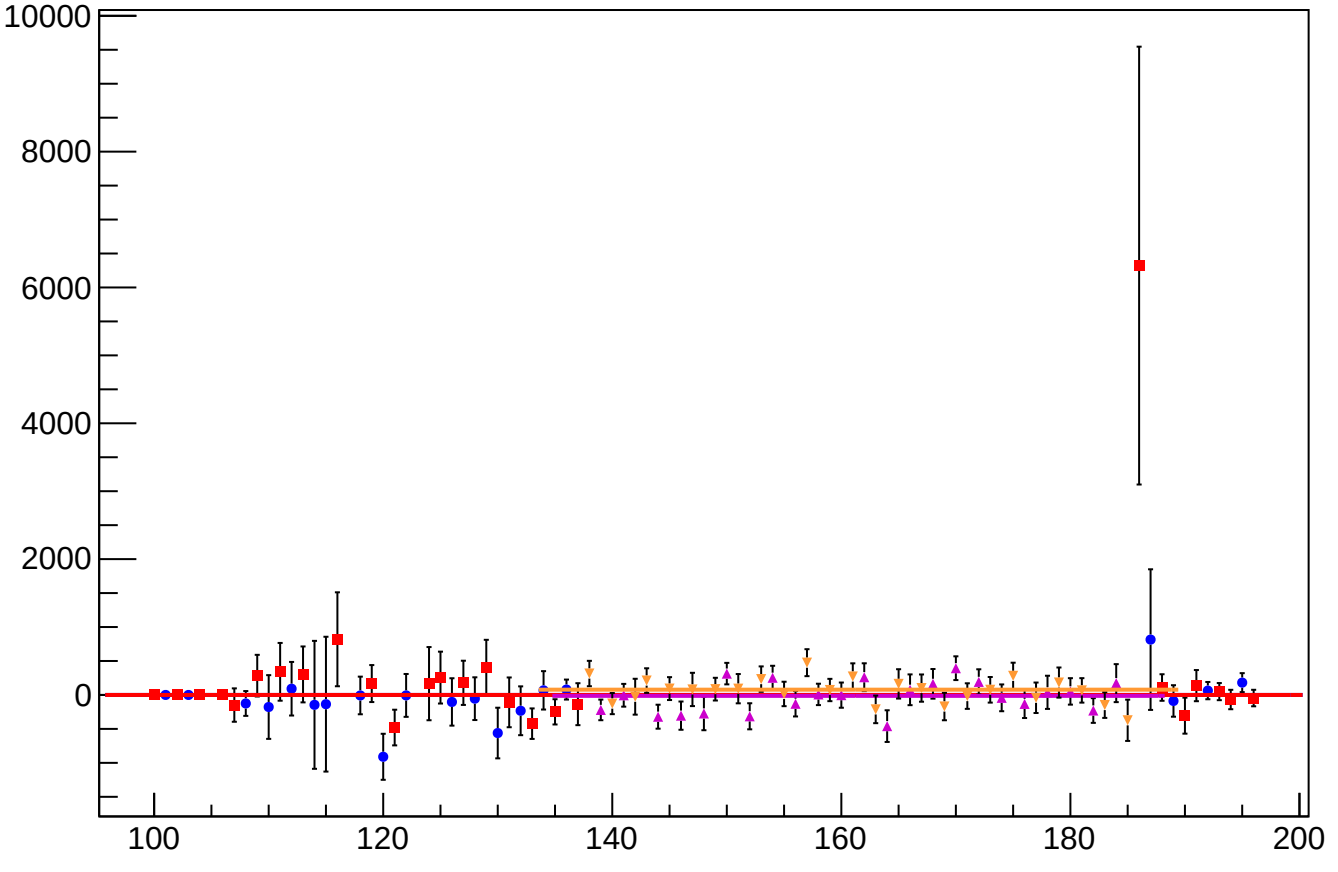
Right: 149.407+/-0.083 $\chi^2$/NDF: 36545011.6/44

In: 151.847+/-0.122 $\chi^2$/NDF:52882287.0/42

Out: 151.985+/-0.113 $\chi^2$/NDF:58661260.1/49

All: 151.921+/-0.083 $\chi^2$/NDF: 111543547.8/9

# diff_cav4dY_mean vs Slug, Sign Corrected




Right In: -0.068+/-0.177 $\chi^2$/NDF: 13.9/19

Left Out: 77.572+/-38.921 $\chi^2$/NDF:19.1/24

Right Out: -0.126+/-0.166 $\chi^2$/NDF: 21.6/25

Left In: -13.457+/-39.929 $\chi^2$/NDF:32.7/22

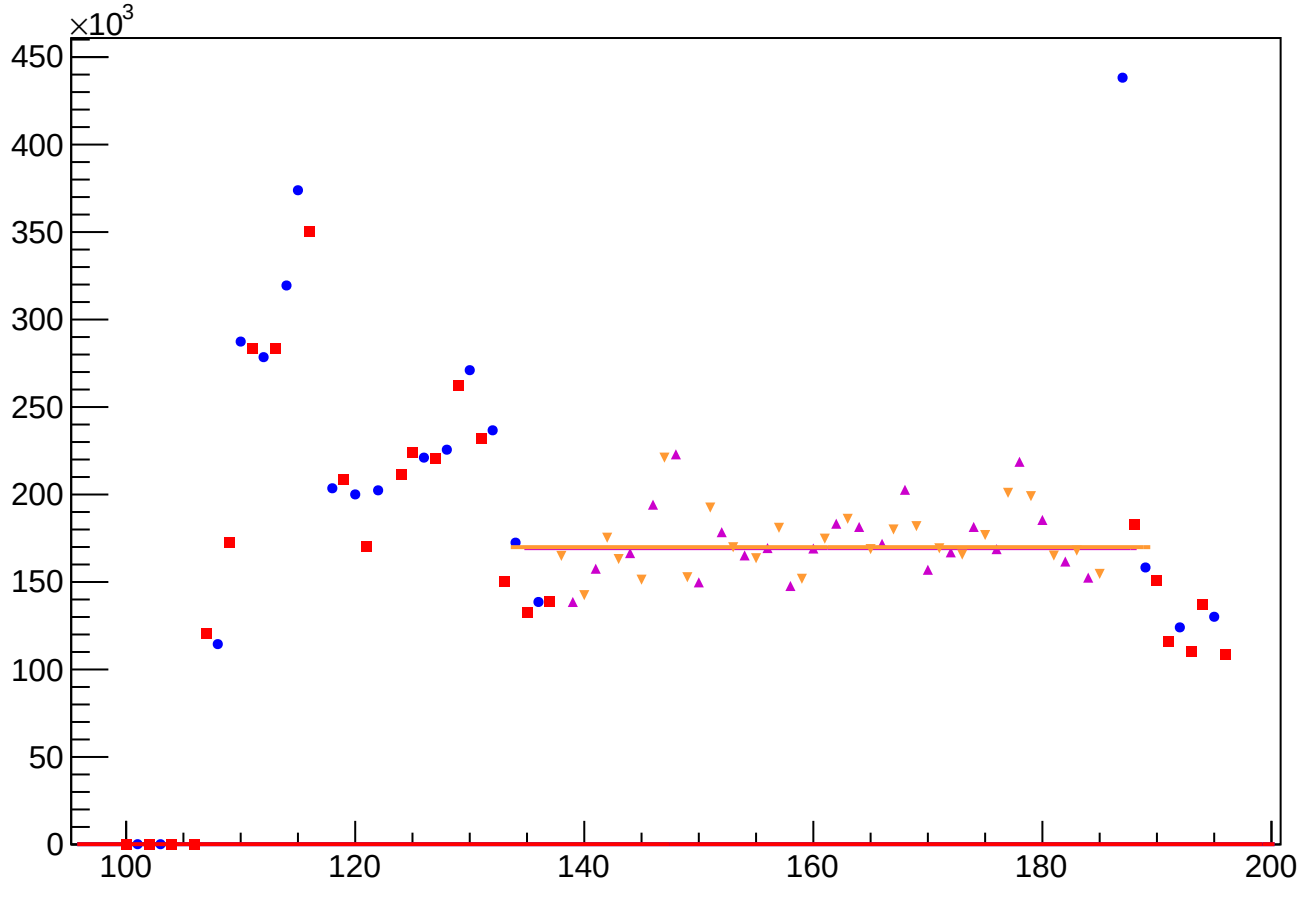
Left: 33.221+/-27.871 $\chi^2$/NDF: 54.4/47

Right: -0.099+/-0.121 $\chi^2$/NDF: 35.6/45

In: -0.068+/-0.177 $\chi^2$/NDF:46.7/42

Out: -0.125+/-0.166 $\chi^2$/NDF:44.7/50

All: -0.098+/-0.121 $\chi^2$/NDF: 91.4/93




Right In: 154.015+/-0.125 $\chi^2$/NDF: 16820577.9/19

Left Out: 169916.225+/-27.521 $\chi^2$/NDF:363966.0/24

Right Out: 156.991+/-0.118 $\chi^2$/NDF: 19182546.4/24

Left In: 169352.083+/-28.234 $\chi^2$/NDF:474852.1/22

Left: 169641.366+/-19.708 $\chi^2$/NDF: 839022.8/47

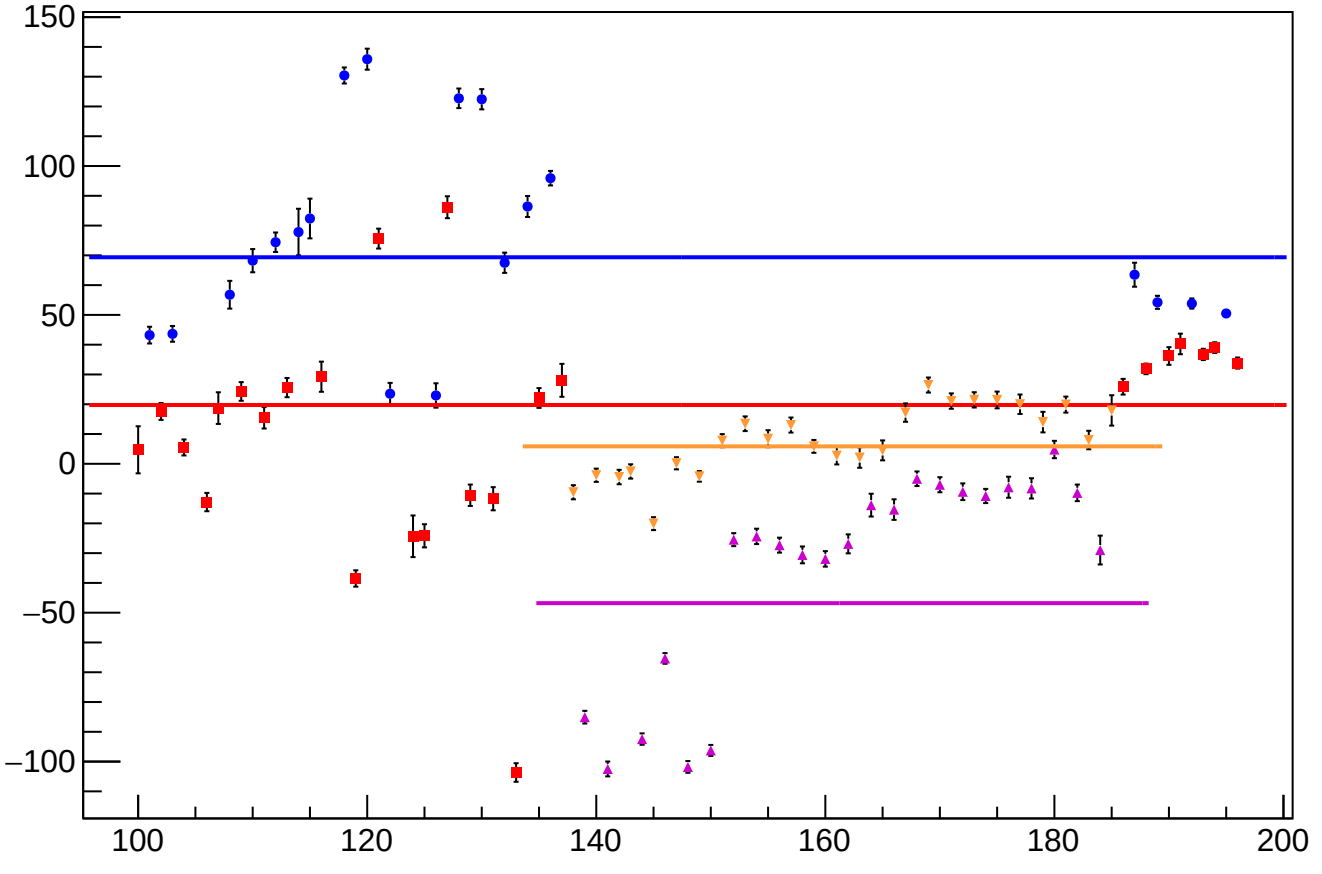
Right: 155.596+/-0.086 $\chi^2$/NDF: 36003423.9/44

In: 157.348+/-0.125 $\chi^2$/NDF:53206418.4/42

Out: 160.098+/-0.118 $\chi^2$/NDF:57593185.0/49

All: 158.809+/-0.086 $\chi^2$/NDF: 110799859.0/9

# diff_bpm0i01X_mean vs Slug, Sign Corrected




Right In: 69.358+/-0.649 $\chi^2$/NDF: 2267.2/19

Left Out: 5.852+/-0.514 $\chi^2$/NDF:535.3/24

Right Out: 19.747+/-0.575 $\chi^2$/NDF: 3451.8/25

Left In: -46.796+/-0.524 $\chi^2$/NDF:5175.4/22

Left: -19.940+/-0.367 $\chi^2$/NDF: 10850.6/47

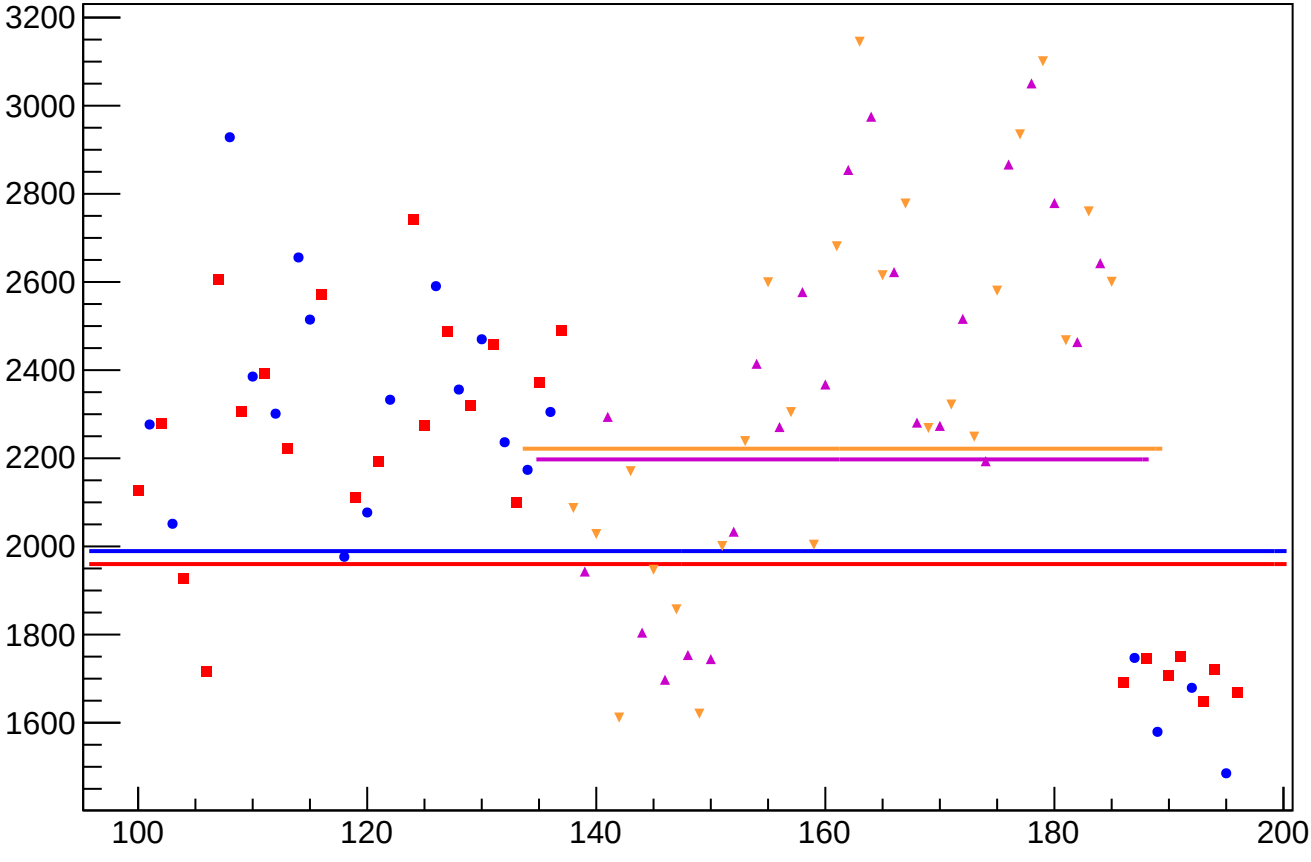
Right: 41.545+/-0.431 $\chi^2$/NDF: 8990.1/45

In: -0.948+/-0.408 $\chi^2$/NDF:26802.1/42

Out: 12.023+/-0.383 $\chi^2$/NDF:4311.7/50

All: 5.945+/-0.279 $\chi^2$/NDF: 31650.8/93

# diff_bpm0i01X_rms vs Slug, Sign Corrected




Right In: 1989.408+/-0.459 $\chi^2$/NDF: 681617.1/19

Left Out: 2221.771+/-0.363 $\chi^2$/NDF:1184043.2/24

Right Out: 1959.976+/-0.407 $\chi^2$/NDF: 577561.4/25

Left In: 2197.471+/-0.371 $\chi^2$/NDF:1104663.4/22

Left: 2209.867+/-0.260 $\chi^2$/NDF: 2290896.6/47

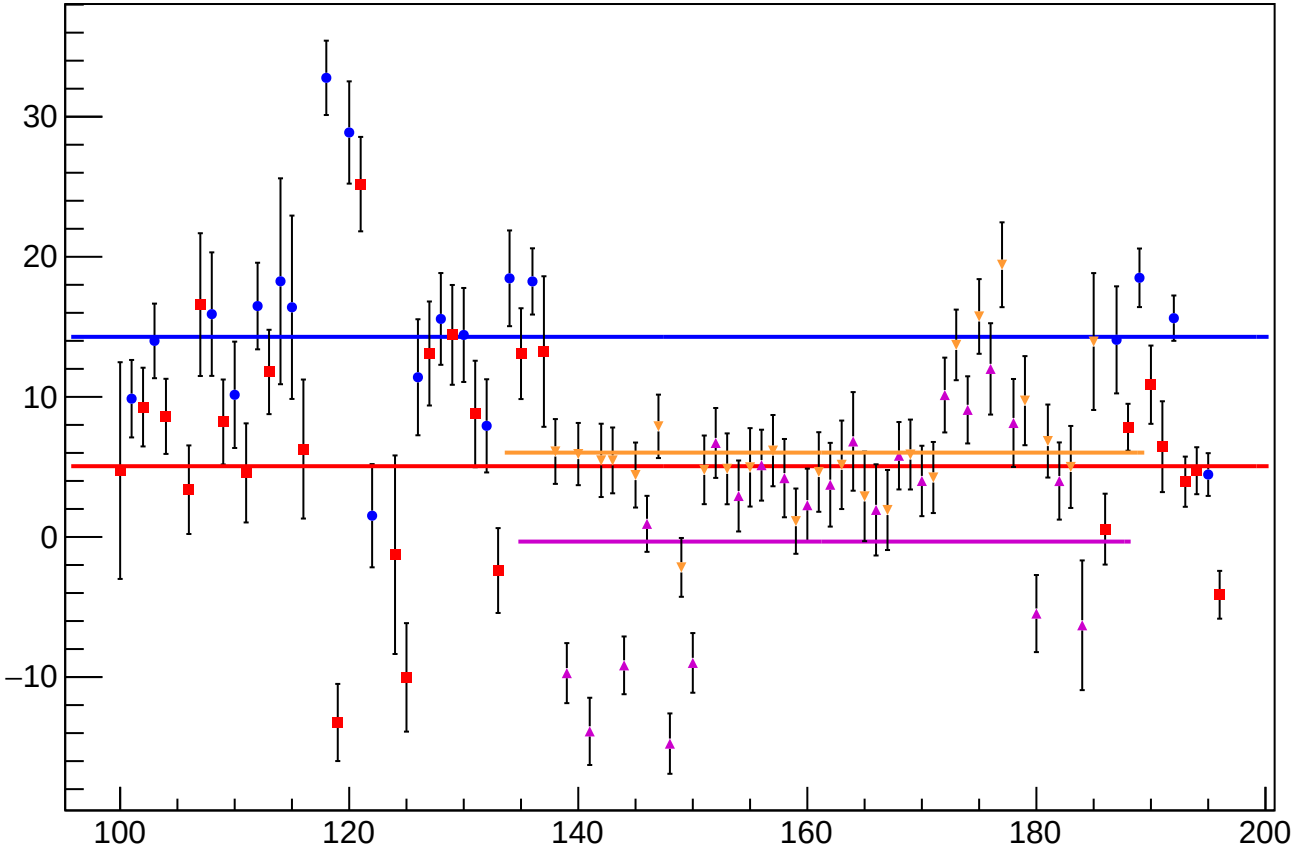
Right: 1972.908+/-0.304 $\chi^2$/NDF: 1261481.0/45

In: 2115.345+/-0.289 $\chi^2$/NDF:1910515.9/42

Out: 2105.493+/-0.271 $\chi^2$/NDF:1992064.1/50

All: 2110.110+/-0.198 $\chi^2$/NDF: 3903199.5/93

# diff_bpm0i01Y_mean vs Slug, Sign Corrected




Right In: 14.287+/-0.628 $\chi^2$/NDF: 136.2/19

Left Out: 6.022+/-0.521 $\chi^2$/NDF:71.8/24

Right Out: 5.053+/-0.553 $\chi^2$/NDF: 178.3/25

Left In: -0.329+/-0.535 $\chi^2$/NDF:224.9/22

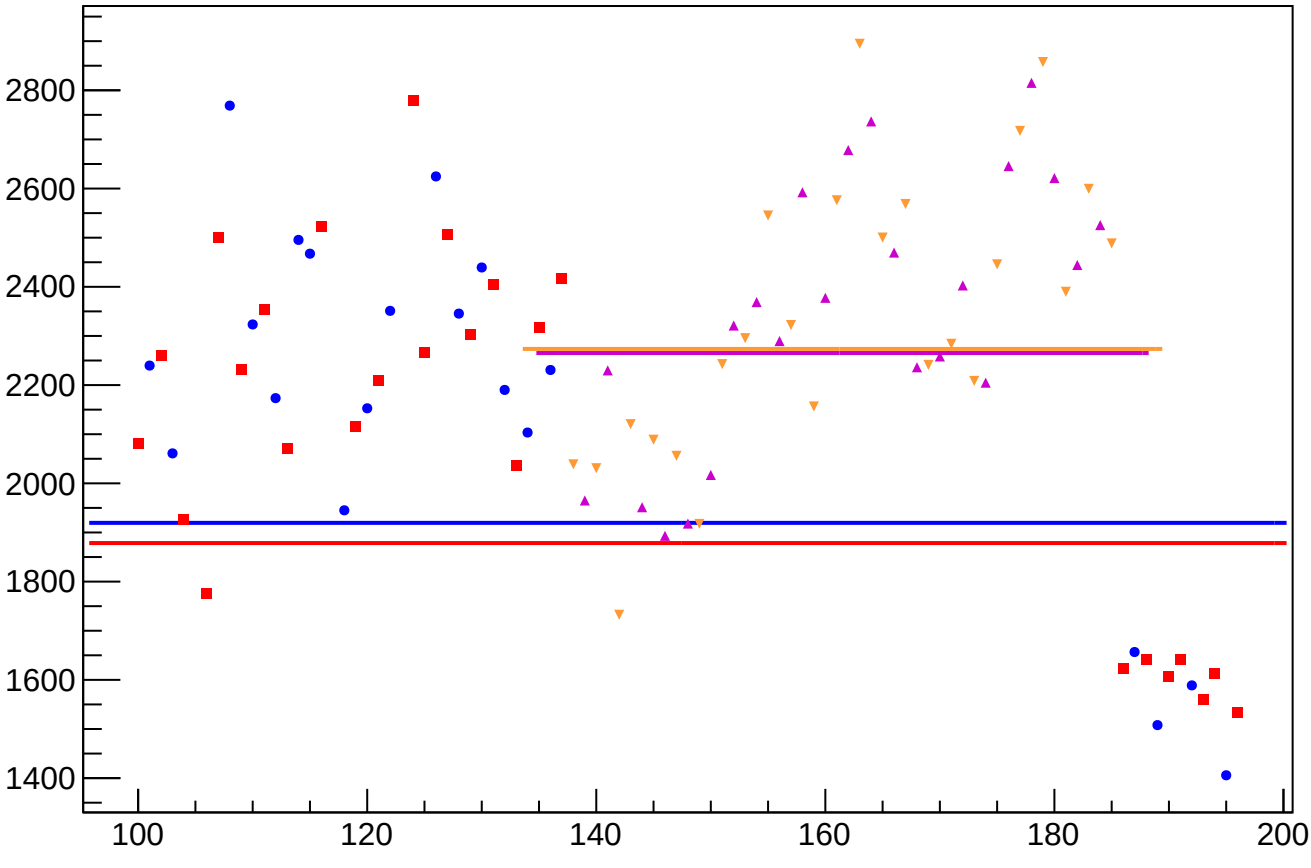
Left: 2.929+/-0.373 $\chi^2$/NDF: 369.1/47

Right: 9.082+/-0.415 $\chi^2$/NDF: 436.2/45

In: 5.810+/-0.407 $\chi^2$/NDF:675.0/42

Out: 5.566+/-0.379 $\chi^2$/NDF:251.6/50

All: 5.680+/-0.277 $\chi^2$/NDF: 926.9/93




Right In: 1919.589+/-0.444 $\chi^2$/NDF: 795775.8/19

Left Out: 2273.612+/-0.368 $\chi^2$/NDF:536838.6/24

Right Out: 1878.465+/-0.391 $\chi^2$/NDF: 733551.4/25

Left In: 2265.257+/-0.378 $\chi^2$/NDF:495816.5/22

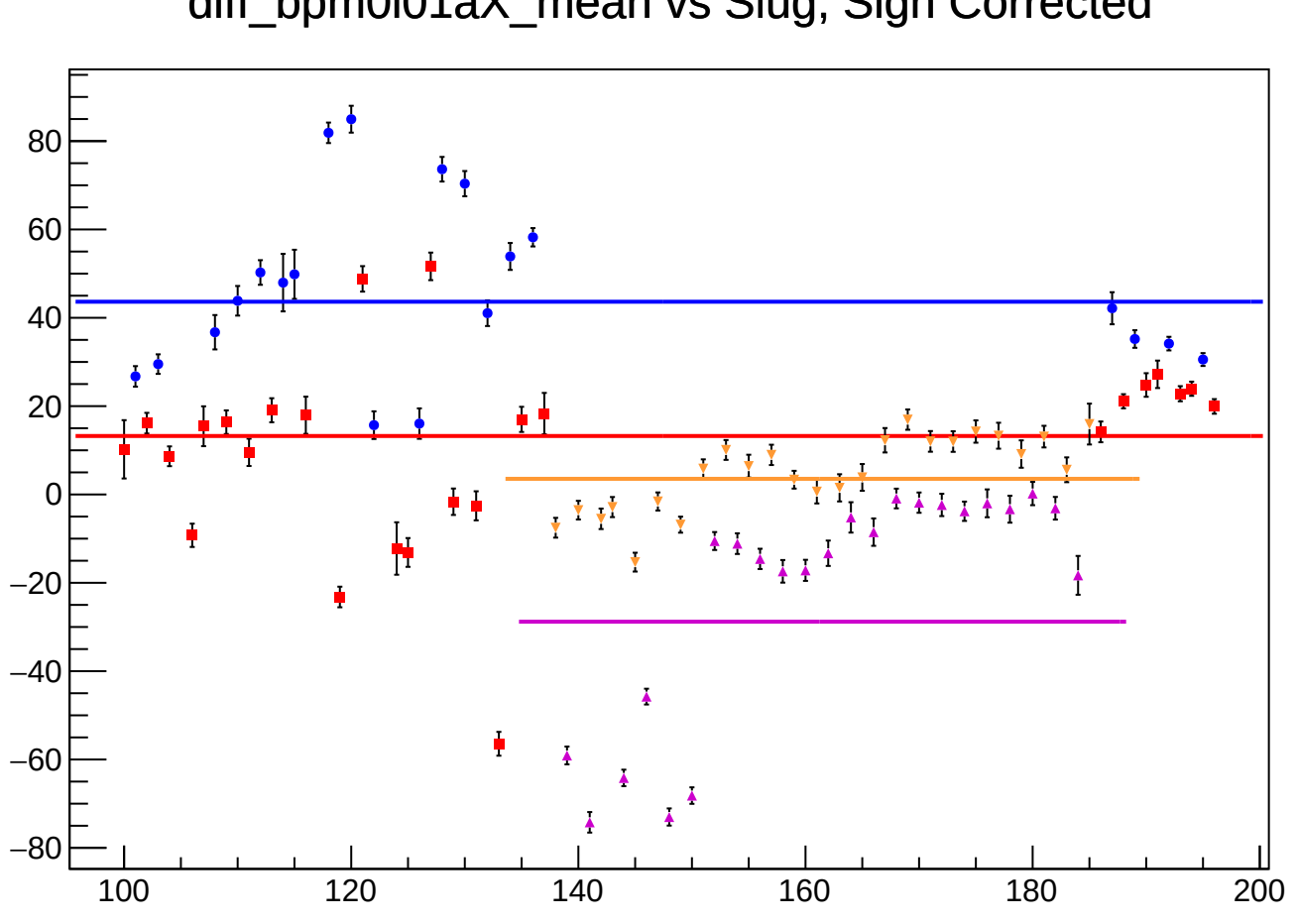
Left: 2269.543+/-0.264 $\chi^2$/NDF: 1032905.7/47

Right: 1896.408+/-0.293 $\chi^2$/NDF: 1534159.2/45

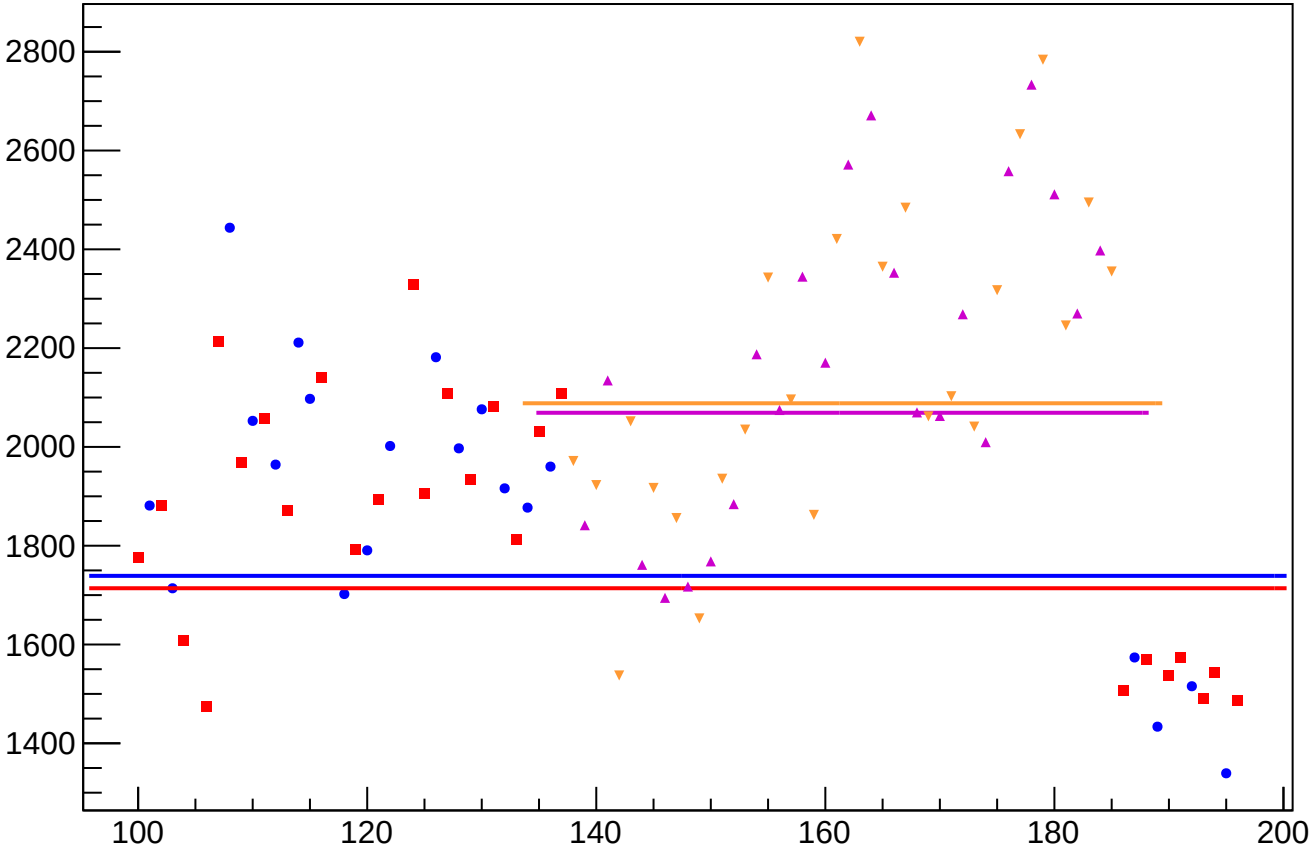
In: 2120.060+/-0.288 $\chi^2$/NDF:1642852.0/42

Out: 2087.742+/-0.268 $\chi^2$/NDF:1811912.8/50

All: 2102.748+/-0.196 $\chi^2$/NDF: 3461516.3/93


diff_bpm0i01aX_mean vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
100
120
140
160
180
200
Right In: 43.638+/-0.565 χ²/NDF: 1105.4/19
Left Out: 3.544+/-0.480 χ²/NDF:319.8/24
Right Out: 13.240+/-0.501 χ²/NDF: 1593.0/25
Left In: -28.804+/-0.491 χ²/NDF:3262.5/22
Left: -12.278+/-0.343 χ²/NDF: 5801.2/47
Right: 26.630+/-0.375 χ²/NDF: 4320.4/45
In: 2.382+/-0.370 χ²/NDF:13744.5/42
Out: 8.188+/-0.347 χ²/NDF:2108.0/50
All: 5.477+/-0.253 χ²/NDF: 15983.5/93

# diff_bpm0i01aX_rms vs Slug, Sign Corrected




Right In: 1738.972+/-0.399 $\chi^2$/NDF: 494006.9/19

Left Out: 2088.353+/-0.340 $\chi^2$/NDF:787429.8/24

Right Out: 1713.913+/-0.354 $\chi^2$/NDF: 413285.9/25

Left In: 2069.116+/-0.347 $\chi^2$/NDF:711501.5/22

Left: 2078.944+/-0.243 $\chi^2$/NDF: 1500500.6/47

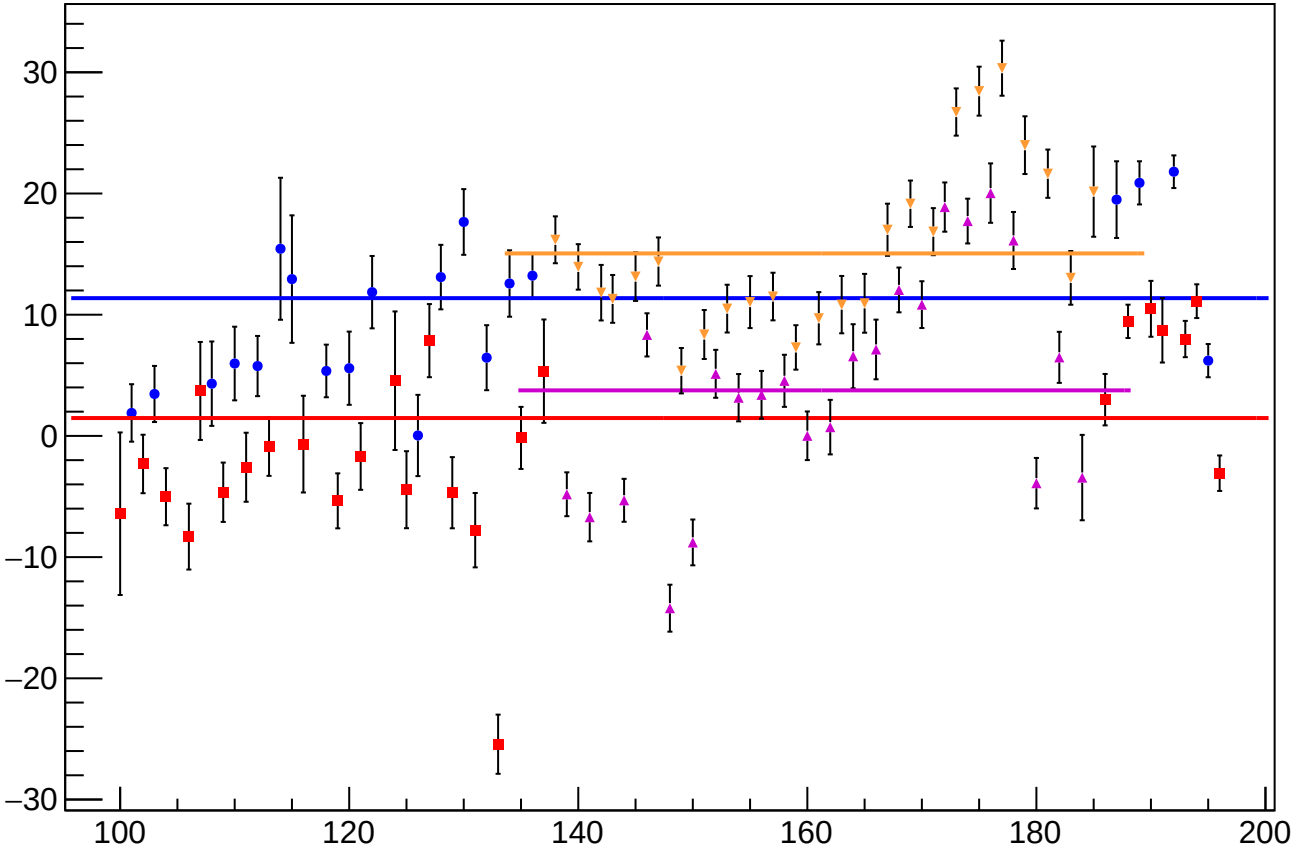
Right: 1724.951+/-0.265 $\chi^2$/NDF: 909497.3/45

In: 1926.990+/-0.262 $\chi^2$/NDF:1594997.1/42

Out: 1909.006+/-0.245 $\chi^2$/NDF:1782988.4/50

All: 1917.403+/-0.179 $\chi^2$/NDF: 3380498.5/93

# diff_bpm0i01aY_mean vs Slug, Sign Corrected




Right In: 11.366+/-0.524 $\chi^2$/NDF: 182.9/19

Left Out: 15.056+/-0.416 $\chi^2$/NDF:246.2/24

Right Out: 1.474+/-0.458 $\chi^2$/NDF: 322.6/25

Left In: 3.758+/-0.428 $\chi^2$/NDF:459.1/22

Left: 9.570+/-0.298 $\chi^2$/NDF: 1064.0/47

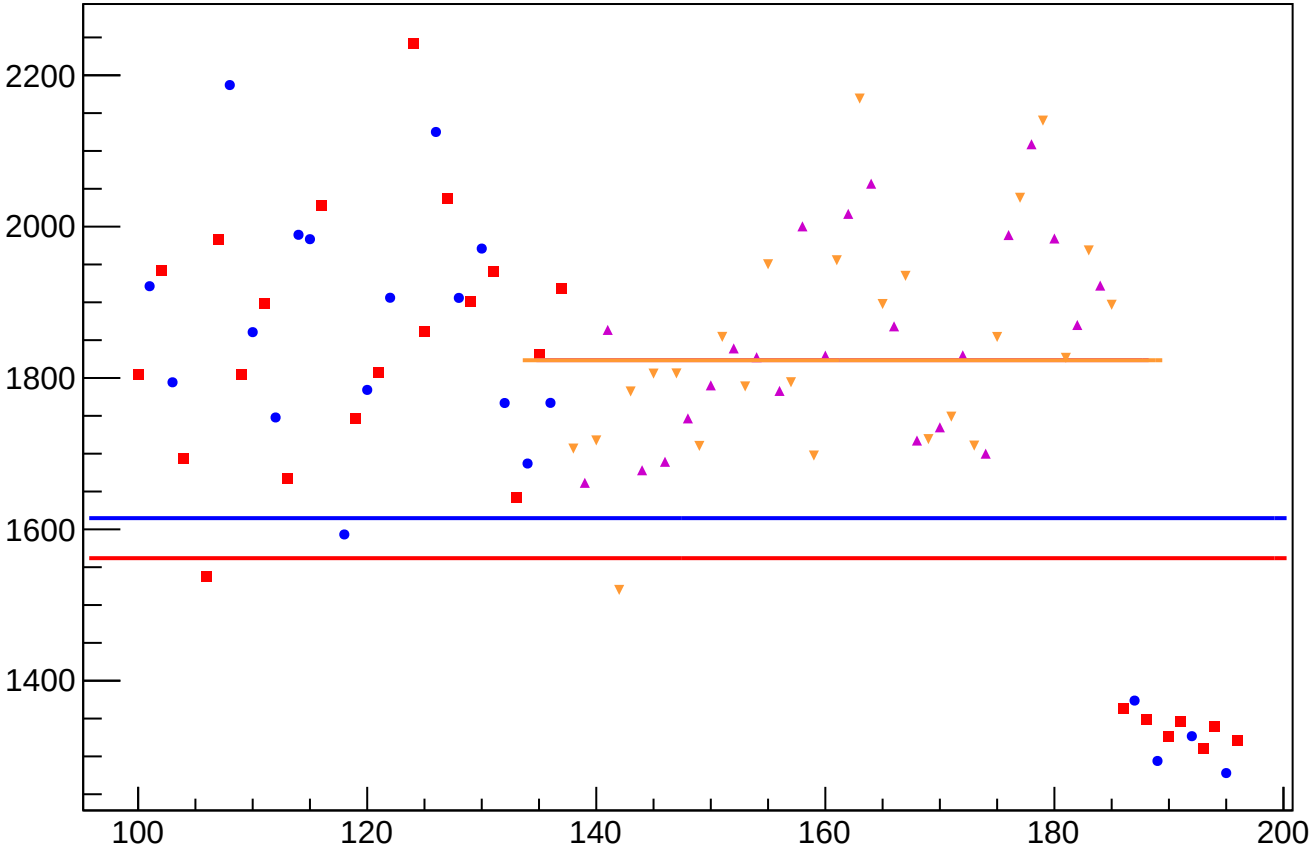
Right: 5.756+/-0.345 $\chi^2$/NDF: 707.4/45

In: 6.800+/-0.331 $\chi^2$/NDF:768.4/42

Out: 8.921+/-0.308 $\chi^2$/NDF:1051.0/50

All: 7.939+/-0.226 $\chi^2$/NDF: 1841.4/93

# diff_bpm0i01aY_rms vs Slug, Sign Corrected




Right In: 1614.814+/-0.371 $\chi^2$/NDF: 576509.8/19

Left Out: 1823.452+/-0.294 $\chi^2$/NDF:211274.0/24

Right Out: 1561.922+/-0.324 $\chi^2$/NDF: 640758.7/25

Left In: 1823.627+/-0.303 $\chi^2$/NDF:163768.2/22

Left: 1823.537+/-0.211 $\chi^2$/NDF: 375042.4/47

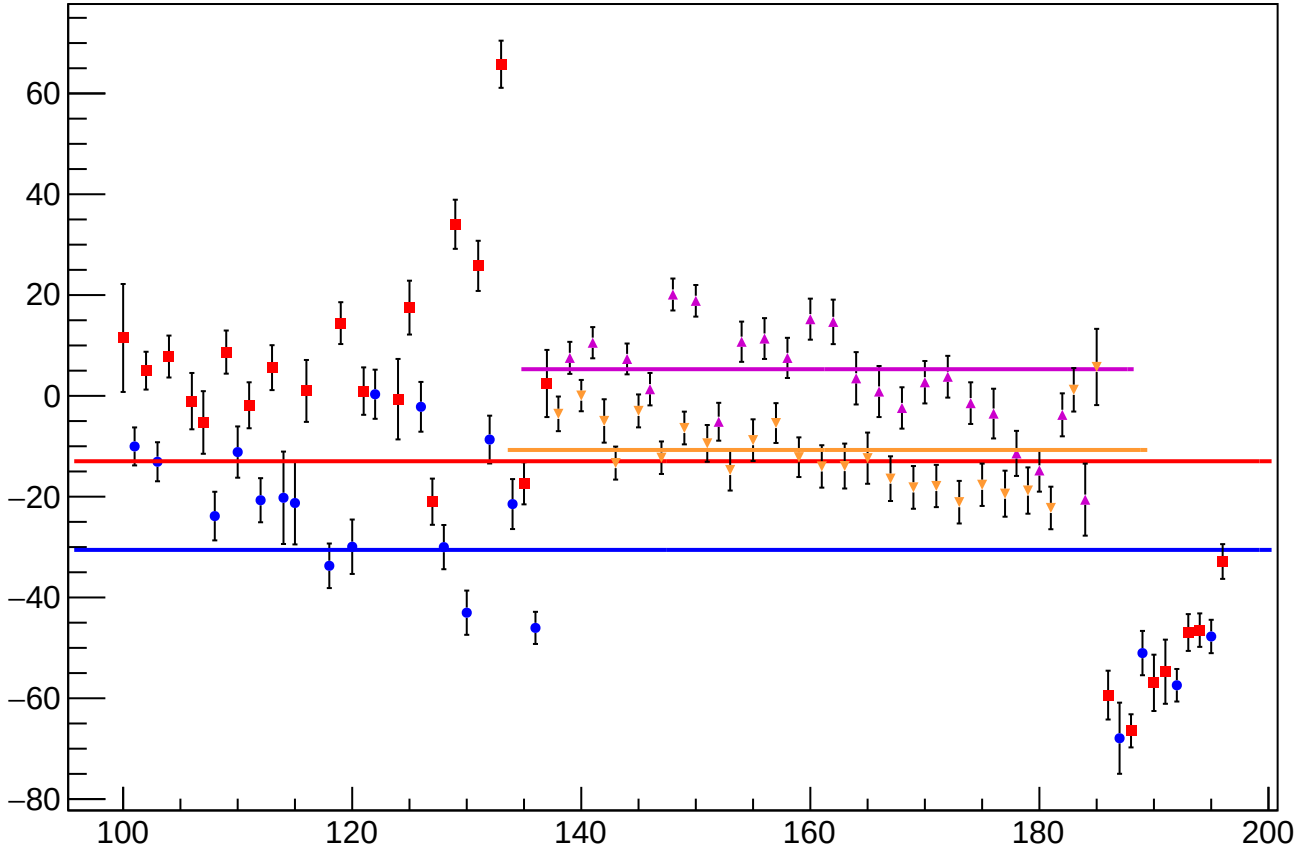
Right: 1584.819+/-0.244 $\chi^2$/NDF: 1228815.1/45

In: 1740.147+/-0.234 $\chi^2$/NDF:930756.4/42

Out: 1705.324+/-0.218 $\chi^2$/NDF:1209610.2/50

All: 1721.449+/-0.159 $\chi^2$/NDF: 2152220.5/93

# diff_bpm0l01X_mean vs Slug, Sign Corrected




Right In: -30.560+/-0.994 $\chi^2$/NDF: 350.0/19

Left Out: -10.732+/-0.794 $\chi^2$/NDF:73.8/24

Right Out: -12.970+/-0.903 $\chi^2$/NDF: 1330.7/25

Left In: 5.291+/-0.814 $\chi^2$/NDF:133.6/22

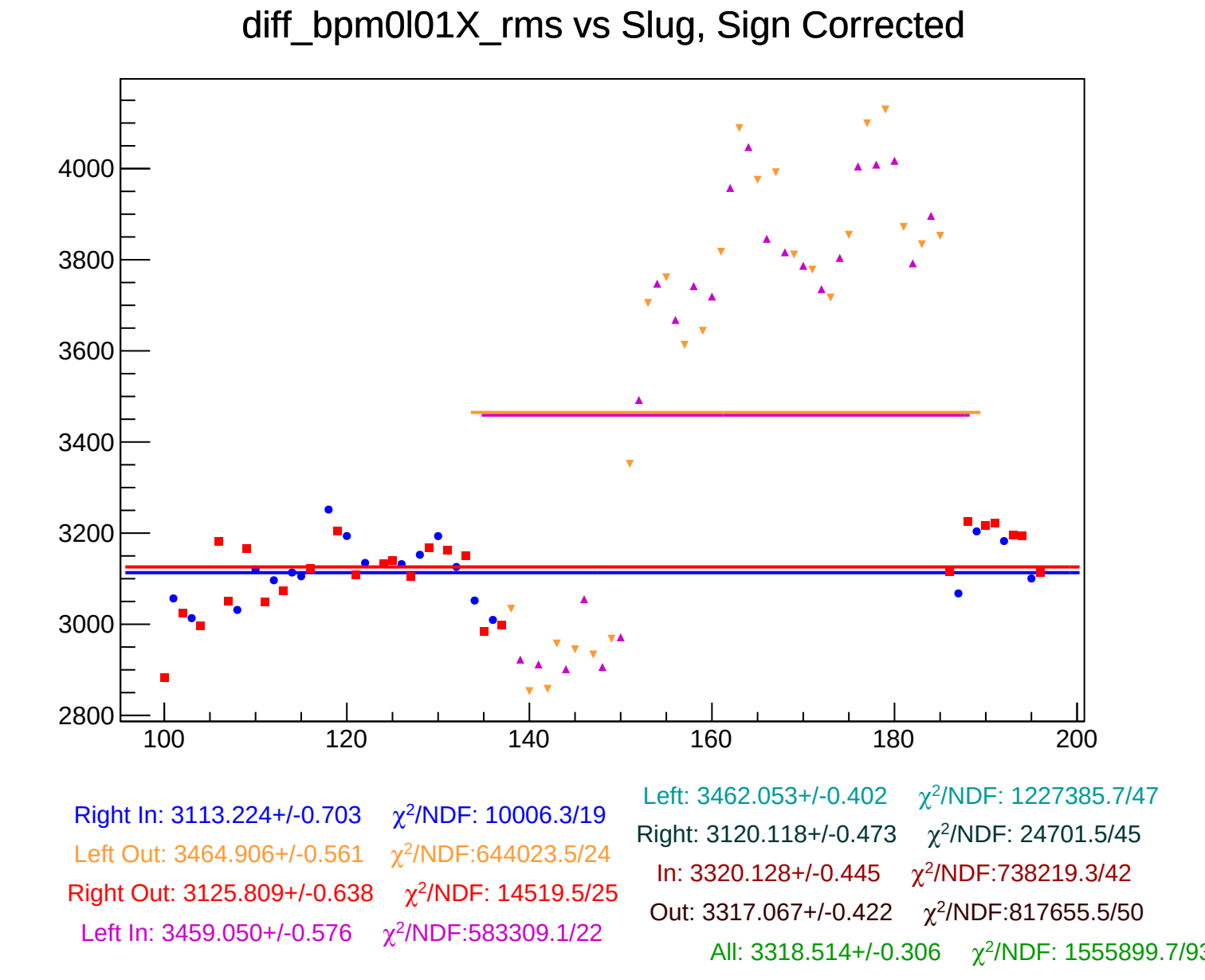
Left: -2.925+/-0.568 $\chi^2$/NDF: 405.9/47

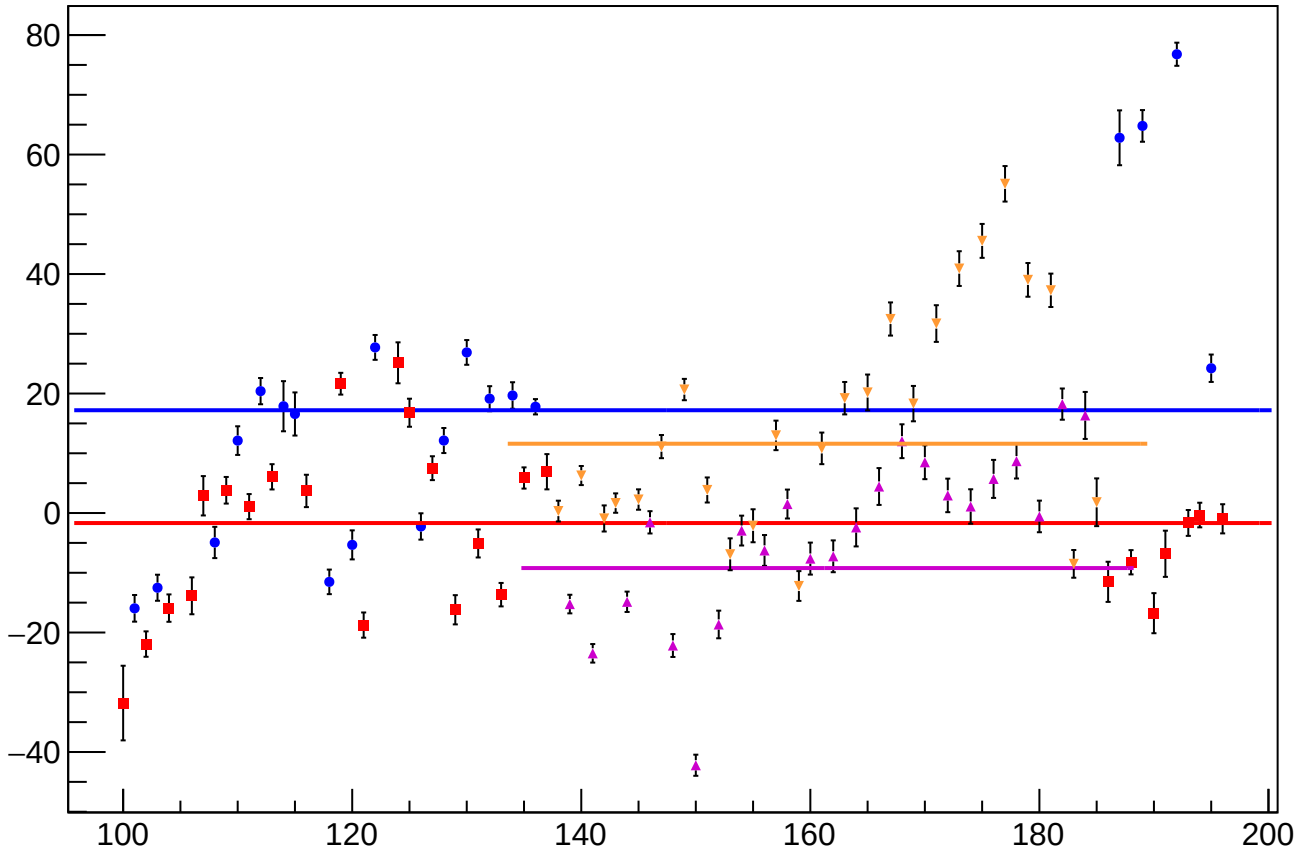
Right: -20.924+/-0.668 $\chi^2$/NDF: 1852.3/45

In: -9.111+/-0.630 $\chi^2$/NDF:1262.2/42

Out: -11.708+/-0.596 $\chi^2$/NDF:1408.0/50

All: -10.481+/-0.433 $\chi^2$/NDF: 2679.2/93


diff_bpm0l01X_rms vs Slug, Sign Corrected
4000
3800
3600
3400
3200
3000
2800
100
120
140
160
180
200
Right In: 3113.224+/-0.703 χ²/NDF: 10006.3/19
Left Out: 3464.906+/-0.561 χ²/NDF:644023.5/24
Right Out: 3125.809+/-0.638 χ²/NDF: 14519.5/25
Left In: 3459.050+/-0.576 χ²/NDF:583309.1/22
Left: 3462.053+/-0.402 χ²/NDF: 1227385.7/47
Right: 3120.118+/-0.473 χ²/NDF: 24701.5/45
In: 3320.128+/-0.445 χ²/NDF:738219.3/42
Out: 3317.067+/-0.422 χ²/NDF:817655.5/50
All: 3318.514+/-0.306 χ²/NDF: 1555899.7/93




Right In: 17.204+/-0.496 $\chi^2$/NDF: 2275.7/19

Left Out: 11.599+/-0.463 $\chi^2$/NDF:1196.9/24

Right Out: -1.678+/-0.466 $\chi^2$/NDF: 711.3/25

Left In: -9.213+/-0.484 $\chi^2$/NDF:940.6/22

Left: 1.641+/-0.335 $\chi^2$/NDF: 3102.6/47

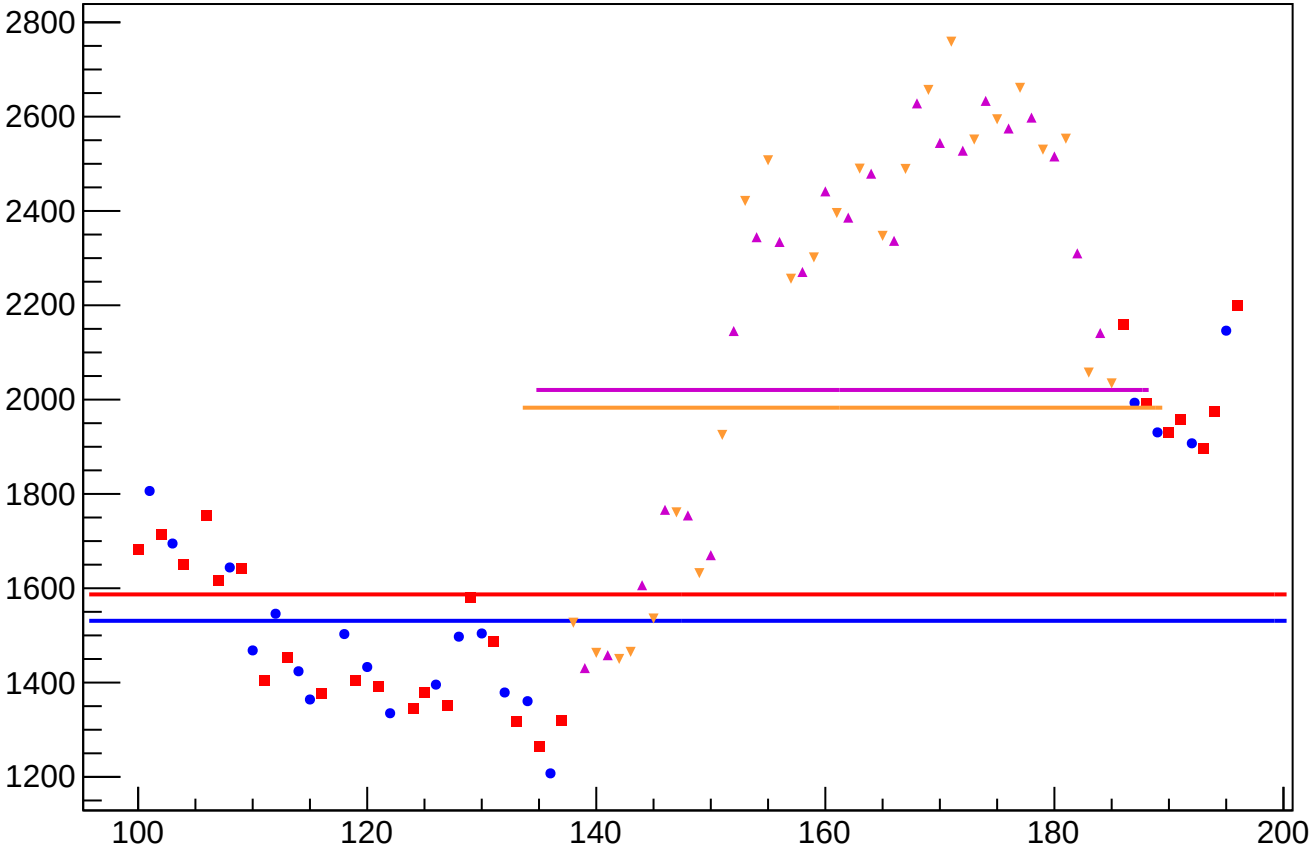
Right: 7.165+/-0.340 $\chi^2$/NDF: 3756.5/45

In: 3.658+/-0.346 $\chi^2$/NDF:4668.9/42

Out: 4.995+/-0.329 $\chi^2$/NDF:2316.5/50

All: 4.362+/-0.238 $\chi^2$/NDF: 6993.3/93

# diff_bpm0l01Y_rms vs Slug, Sign Corrected




Right In: 1530.969+/-0.351 $\chi^2$/NDF: 516820.3/19

Left Out: 1982.871+/-0.328 $\chi^2$/NDF:1977669.4/24

Right Out: 1586.950+/-0.329 $\chi^2$/NDF: 680722.3/25

Left In: 2020.468+/-0.342 $\chi^2$/NDF:1614691.2/22

Left: 2000.860+/-0.237 $\chi^2$/NDF: 3598659.4/47

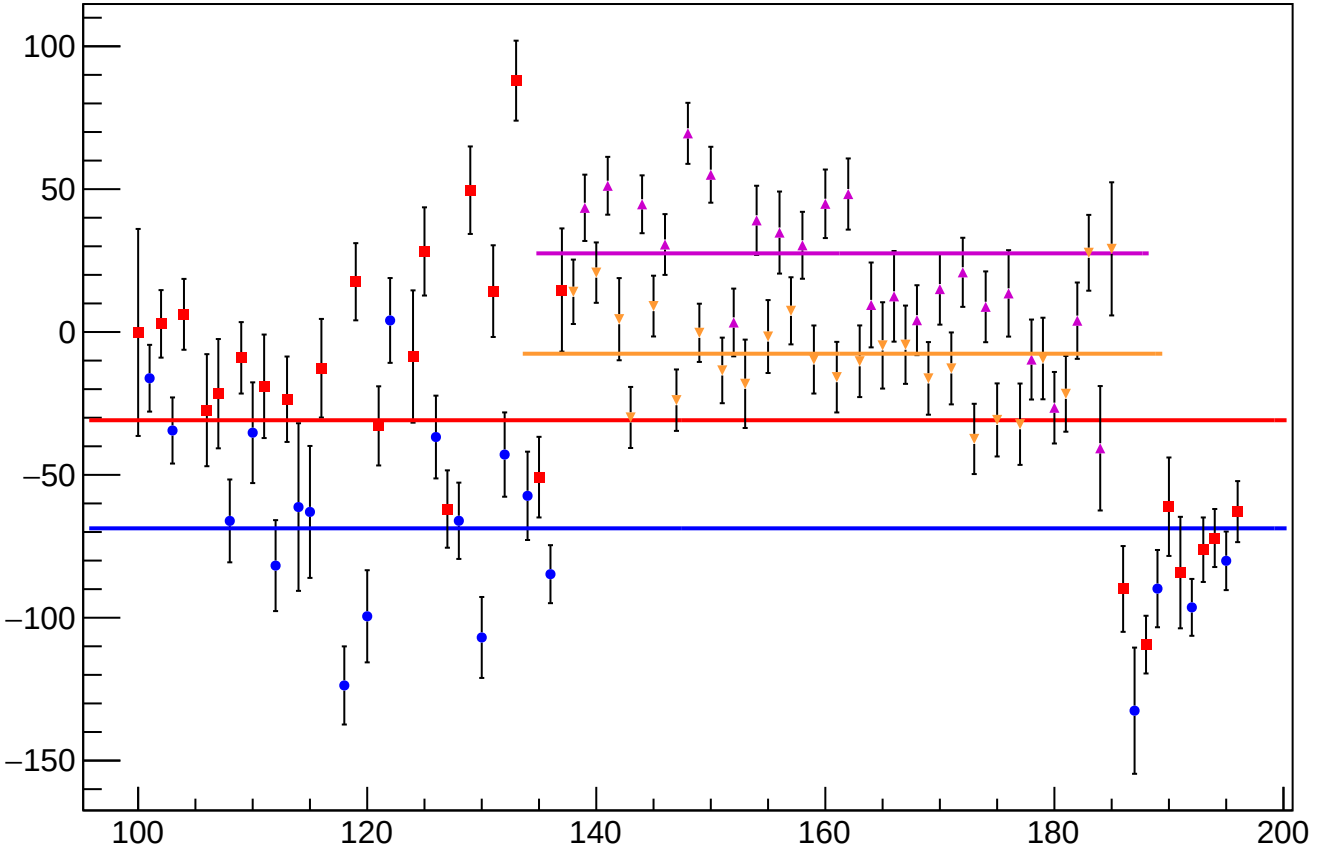
Right: 1560.734+/-0.240 $\chi^2$/NDF: 1211070.8/45

In: 1781.968+/-0.245 $\chi^2$/NDF:3129029.8/42

Out: 1785.928+/-0.232 $\chi^2$/NDF:3384558.7/50

All: 1784.053+/-0.169 $\chi^2$/NDF: 6513726.2/93

# diff_bpm0l02X_mean vs Slug, Sign Corrected




Right In: -68.712+/-3.094 $\chi^2$/NDF: 115.3/19

Left Out: -7.594+/-2.495 $\chi^2$/NDF:47.9/24

Right Out: -30.880+/-2.815 $\chi^2$/NDF: 298.8/25

Left In: 27.528+/-2.556 $\chi^2$/NDF:93.0/22

Left: 9.540+/-1.786 $\chi^2$/NDF: 237.6/47

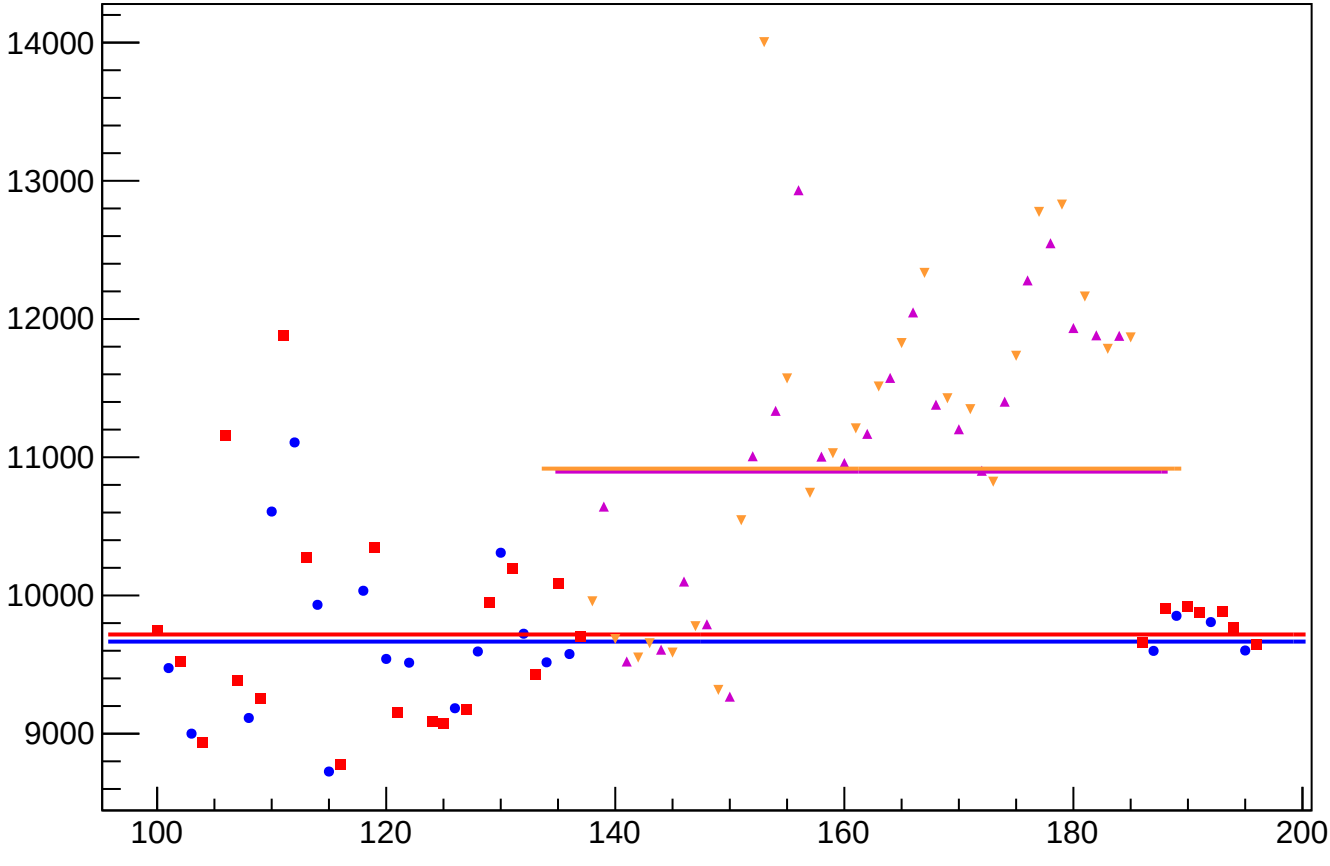
Right: -48.011+/-2.082 $\chi^2$/NDF: 495.9/45

In: -11.516+/-1.971 $\chi^2$/NDF:783.2/42

Out: -17.840+/-1.867 $\chi^2$/NDF:385.1/50

All: -14.849+/-1.355 $\chi^2$/NDF: 1173.7/93

# diff_bpm0l02X_rms vs Slug, Sign Corrected




Right In: 9666.295+/-2.188 $\chi^2$/NDF: 45055.1/19

Left Out: 10917.711+/-1.764 $\chi^2$/NDF:425841.1/24

Right Out: 9717.716+/-1.990 $\chi^2$/NDF: 81962.2/25

Left In: 10895.992+/-1.808 $\chi^2$/NDF:298059.2/22

Left: 10907.115+/-1.263 $\chi^2$/NDF: 723974.2/47

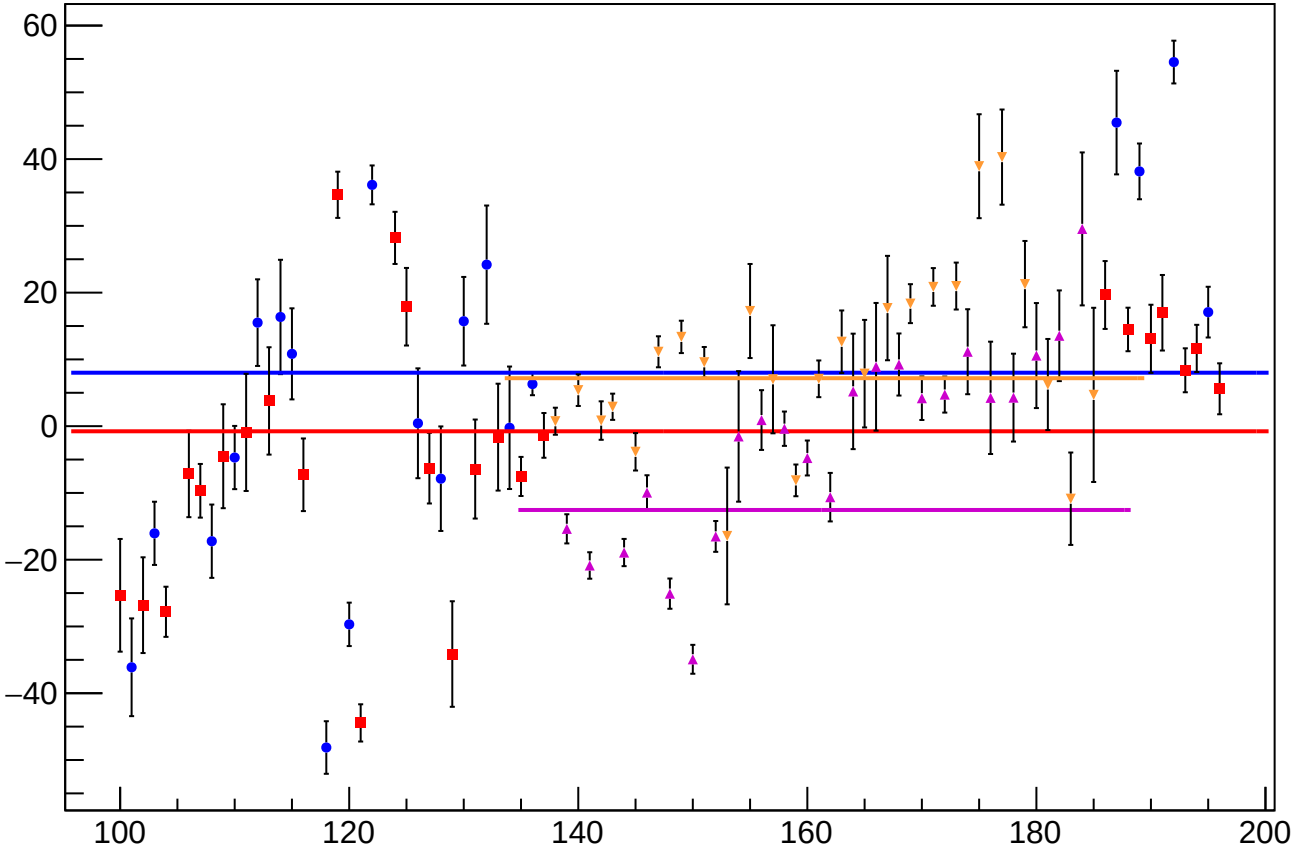
Right: 9694.431+/-1.472 $\chi^2$/NDF: 127319.6/45

In: 10397.110+/-1.394 $\chi^2$/NDF:530848.4/42

Out: 10389.716+/-1.320 $\chi^2$/NDF:711359.0/50

All: 10393.213+/-0.958 $\chi^2$/NDF: 1242222.2/9

# diff_bpm0l02Y_mean vs Slug, Sign Corrected




Right In: 8.006+/-0.930 $\chi^2$/NDF: 827.6/19

Left Out: 7.185+/-0.654 $\chi^2$/NDF:201.7/24

Right Out: -0.768+/-0.873 $\chi^2$/NDF: 599.7/25

Left In: -12.553+/-0.661 $\chi^2$/NDF:372.1/22

Left: -2.580+/-0.465 $\chi^2$/NDF: 1025.0/47

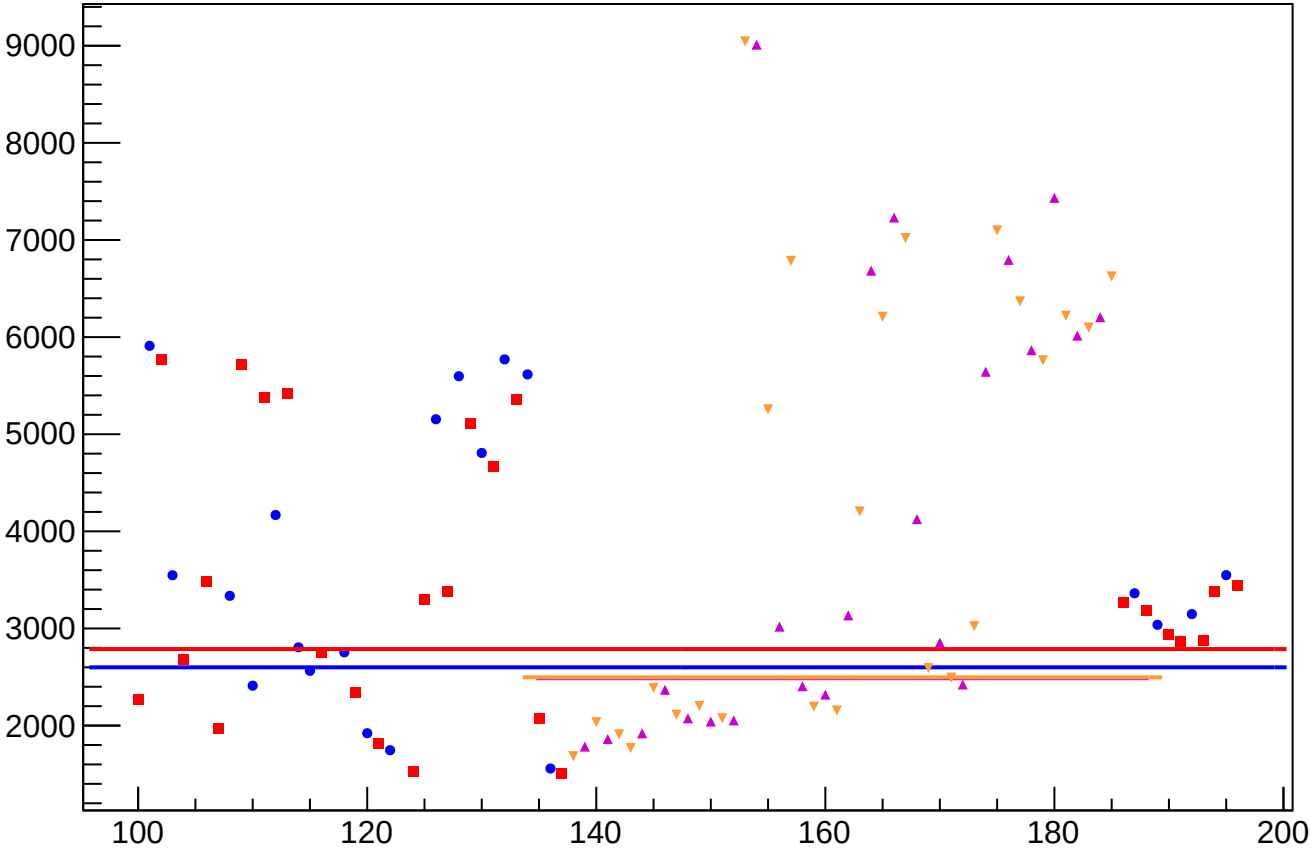
Right: 3.343+/-0.637 $\chi^2$/NDF: 1474.5/45

In: -5.661+/-0.539 $\chi^2$/NDF:1524.5/42

Out: 4.330+/-0.523 $\chi^2$/NDF:854.5/50

All: -0.522+/-0.375 $\chi^2$/NDF: 2556.0/93

# diff_bpm0l02Y_rms vs Slug, Sign Corrected




Right In: 2599.688+/-0.658 $\chi^2$/NDF: 3094183.8/19

Left Out: 2496.801+/-0.462 $\chi^2$/NDF:7205827.8/24

Right Out: 2788.001+/-0.618 $\chi^2$/NDF: 2743919.9/25

Left In: 2487.721+/-0.467 $\chi^2$/NDF:6103466.5/22

Left: 2492.309+/-0.329 $\chi^2$/NDF: 13309485.2/47

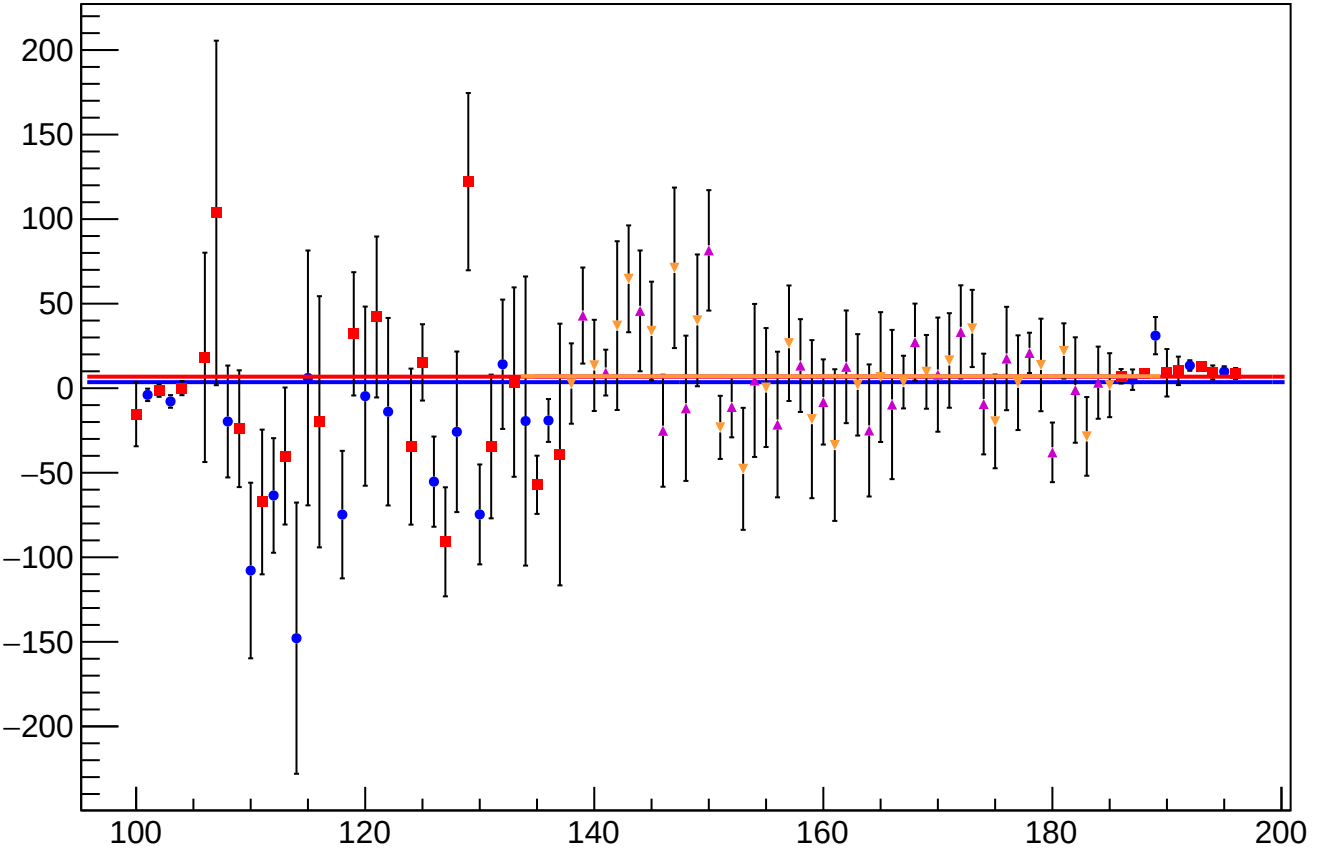
Right: 2699.767+/-0.450 $\chi^2$/NDF: 5881670.1/45

In: 2525.256+/-0.381 $\chi^2$/NDF:9216915.4/42

Out: 2601.345+/-0.370 $\chi^2$/NDF:10092264.6/50

All: 2564.393+/-0.265 $\chi^2$/NDF: 19329714.6/9

# diff_bpm0l03X_mean vs Slug, Sign Corrected




Right In: 3.574+/-1.583 $\chi^2$/NDF: 66.3/19

Left Out: 7.059+/-5.227 $\chi^2$/NDF:19.6/24

Right Out: 6.819+/-1.274 $\chi^2$/NDF: 52.0/25

Left In: 6.944+/-5.090 $\chi^2$/NDF:21.1/22

Left: 7.000+/-3.647 $\chi^2$/NDF: 40.7/47

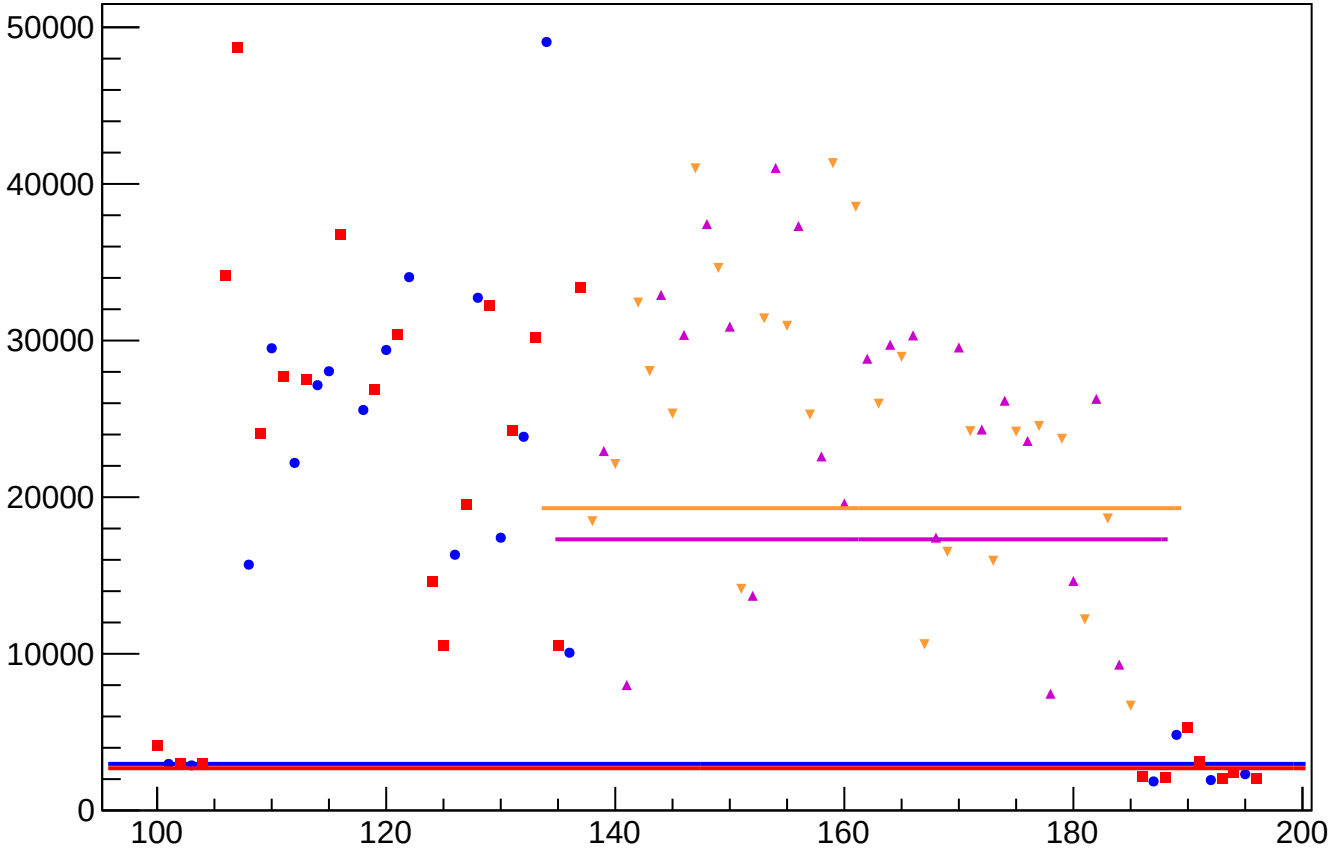
Right: 5.543+/-0.993 $\chi^2$/NDF: 120.8/45

In: 3.871+/-1.512 $\chi^2$/NDF:87.8/42

Out: 6.833+/-1.238 $\chi^2$/NDF:71.5/50

All: 5.644+/-0.958 $\chi^2$/NDF: 161.6/93

# diff_bpm0l03X_rms vs Slug, Sign Corrected




Right In: 2973.689+/-1.120 $\chi^2$/NDF: 7708294.2/19

Left Out: 19299.351+/-3.696 $\chi^2$/NDF:5037014.9/24

Right Out: 2694.799+/-0.901 $\chi^2$/NDF: 8795946.4/25

Left In: 17309.081+/-3.600 $\chi^2$/NDF:6719993.9/22

Left: 18277.793+/-2.579 $\chi^2$/NDF: 11905813.9/47

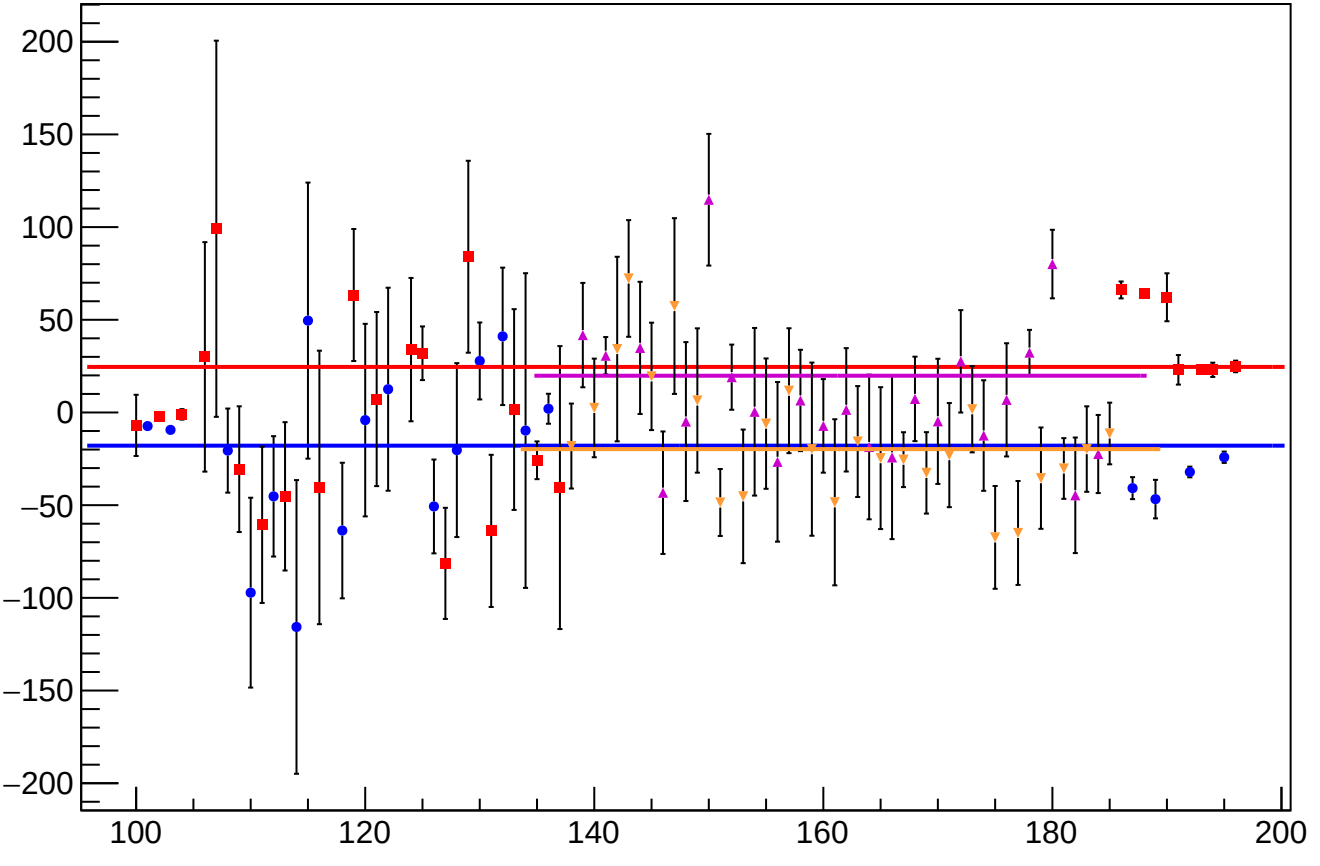
Right: 2804.446+/-0.702 $\chi^2$/NDF: 16541898.3/45

In: 4238.158+/-1.069 $\chi^2$/NDF:28890241.8/42

Out: 3626.282+/-0.875 $\chi^2$/NDF:32879854.1/50

All: 3871.915+/-0.677 $\chi^2$/NDF: 61966181.1/9

# diff_bpm0l03Y_mean vs Slug, Sign Corrected




Right In: -17.903+/-1.288 $\chi^2$/NDF: 102.5/19

Left Out: -19.769+/-5.117 $\chi^2$/NDF:27.8/24

Right Out: 24.571+/-1.096 $\chi^2$/NDF: 585.3/25

Left In: 19.822+/-4.846 $\chi^2$/NDF:40.3/22

Left: 1.103+/-3.518 $\chi^2$/NDF: 99.6/47

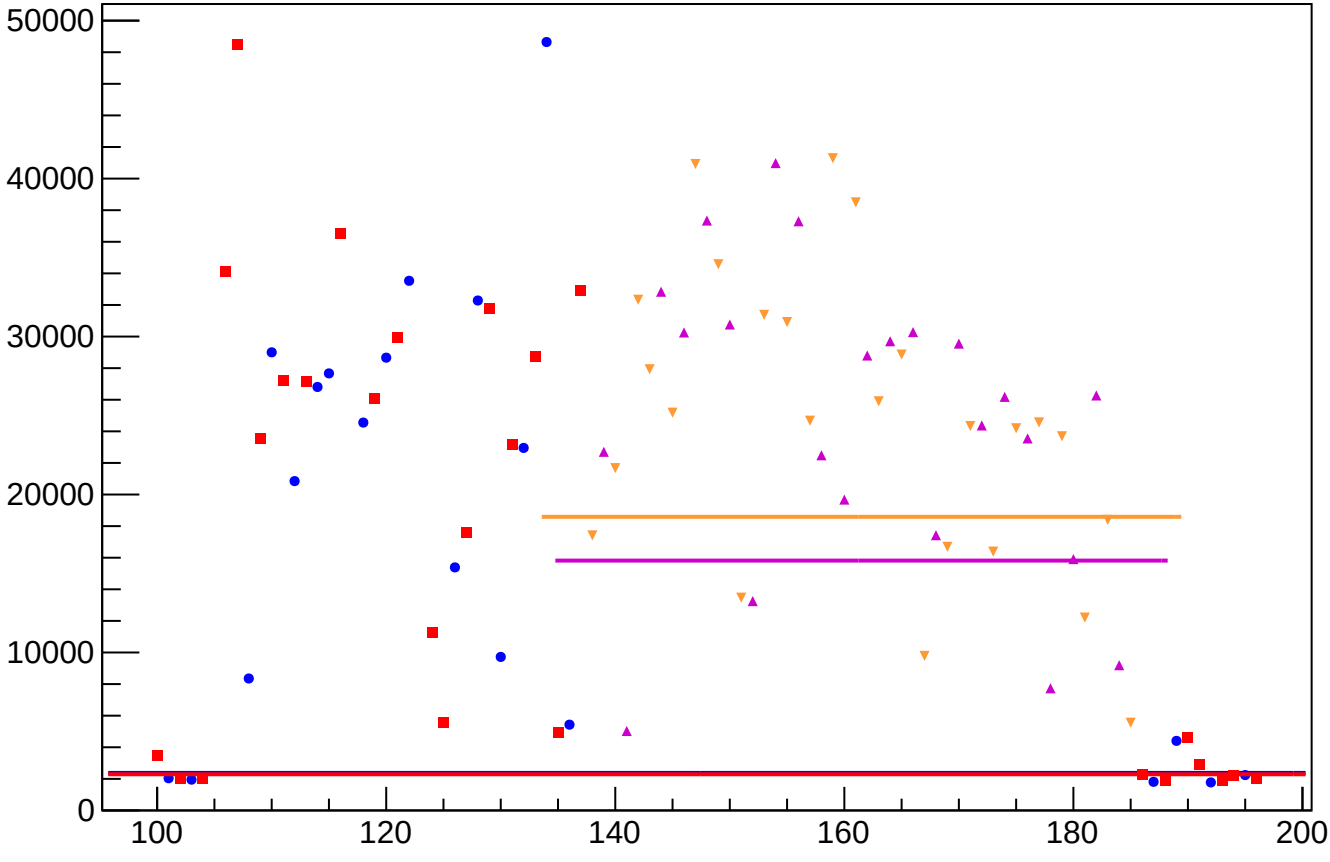
Right: 6.735+/-0.835 $\chi^2$/NDF: 1318.8/45

In: -15.414+/-1.245 $\chi^2$/NDF:199.4/42

Out: 22.627+/-1.071 $\chi^2$/NDF:684.9/50

All: 6.435+/-0.812 $\chi^2$/NDF: 1420.9/93

# diff_bpm0l03Y_rms vs Slug, Sign Corrected




Right In: 2376.099+/-0.911 $\chi^2$/NDF: 7009214.0/19

Left Out: 18589.195+/-3.618 $\chi^2$/NDF:5698567.3/24

Right Out: 2290.959+/-0.775 $\chi^2$/NDF: 8299621.8/25

Left In: 15817.655+/-3.426 $\chi^2$/NDF:8406830.8/22

Left: 17128.048+/-2.488 $\chi^2$/NDF: 14414756.2/47

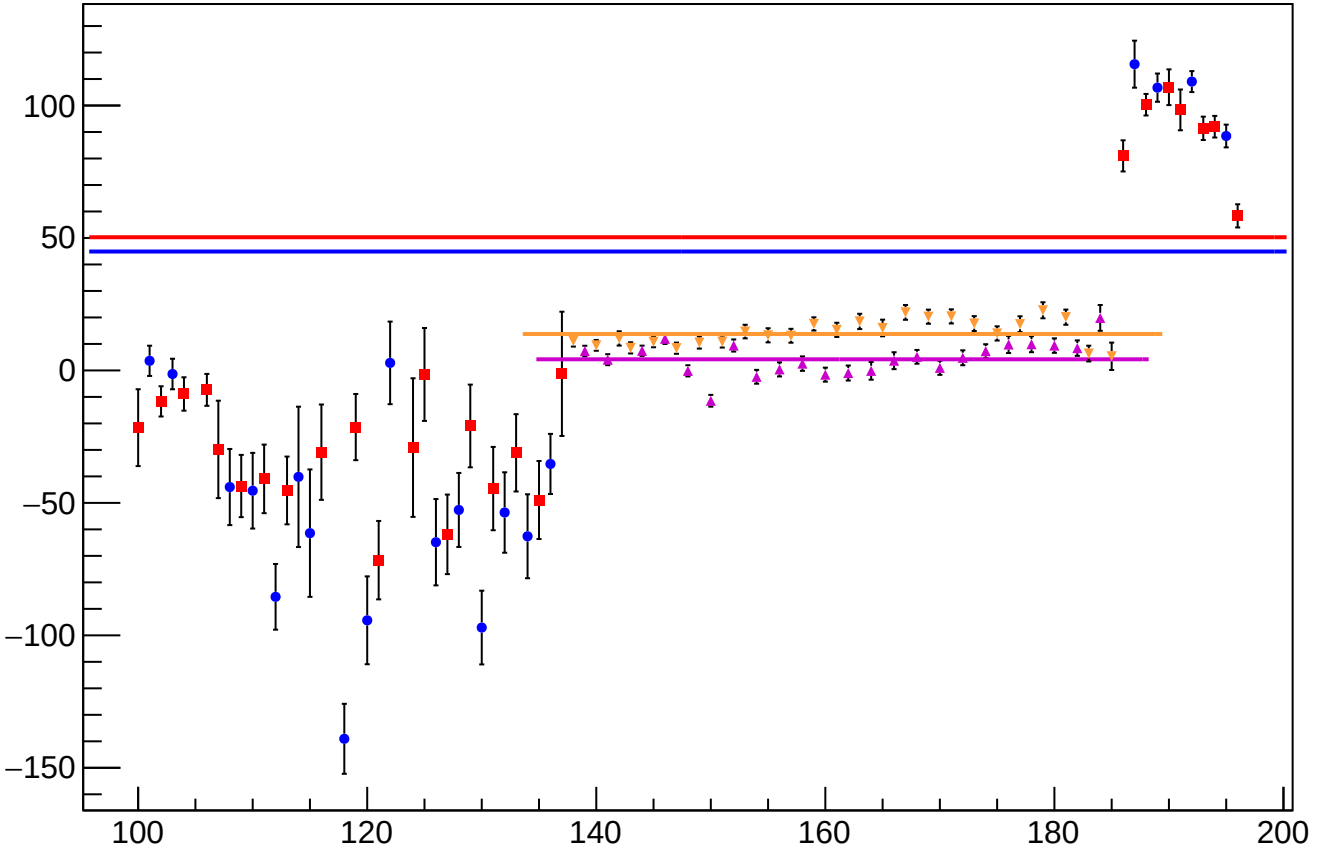
Right: 2326.712+/-0.590 $\chi^2$/NDF: 15313906.6/45

In: 3262.885+/-0.880 $\chi^2$/NDF:29790687.2/42

Out: 3005.601+/-0.758 $\chi^2$/NDF:33400568.2/50

All: 3115.113+/-0.574 $\chi^2$/NDF: 63240343.2/9

# diff_bpm0l04X_mean vs Slug, Sign Corrected




Right In: 44.887+/-1.857 $\chi^2$/NDF: 1507.4/19

Left Out: 13.761+/-0.514 $\chi^2$/NDF:77.2/24

Right Out: 50.276+/-1.499 $\chi^2$/NDF: 1326.9/25

Left In: 4.202+/-0.530 $\chi^2$/NDF:123.9/22

Left: 9.129+/-0.369 $\chi^2$/NDF: 368.8/47

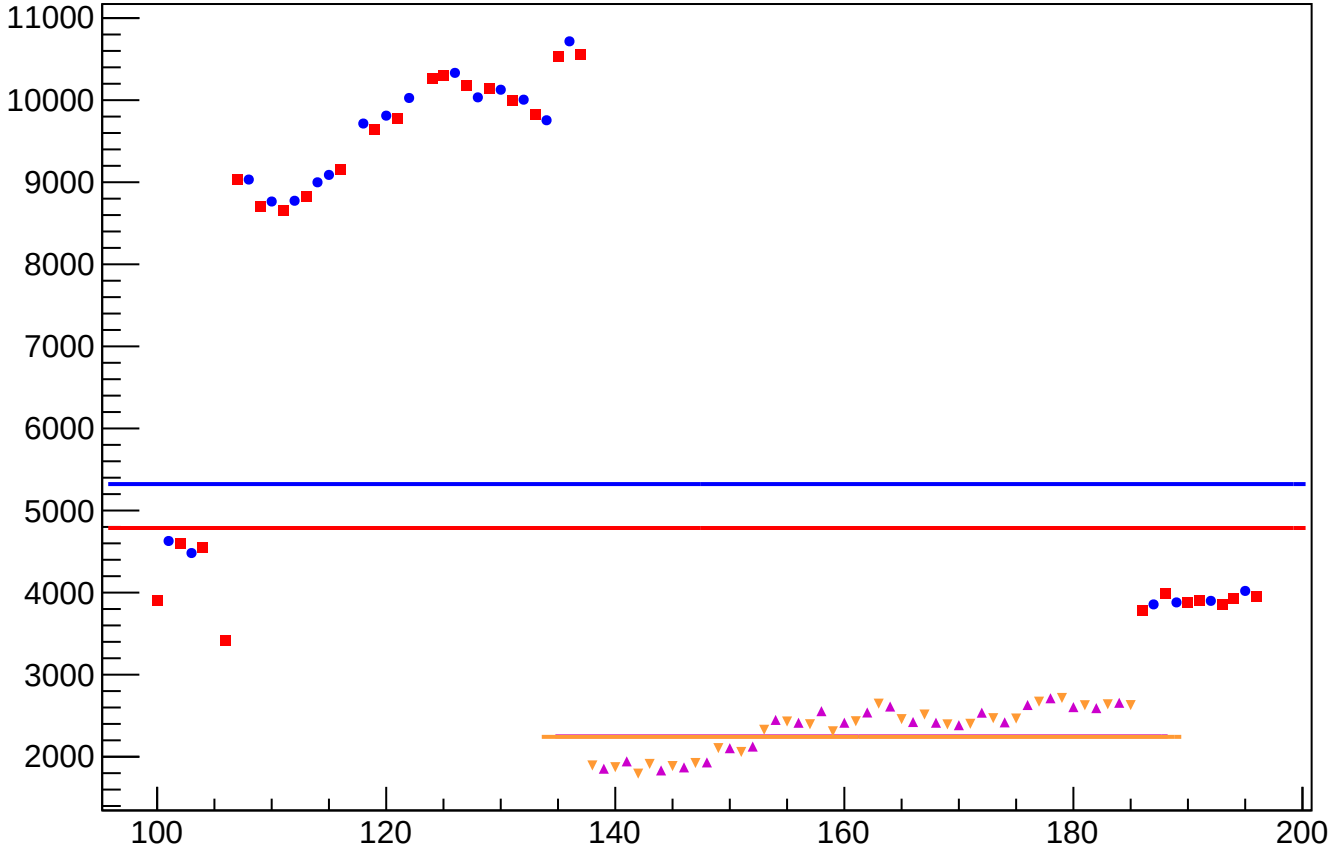
Right: 48.150+/-1.166 $\chi^2$/NDF: 2839.4/45

In: 7.267+/-0.510 $\chi^2$/NDF:2075.1/42

Out: 17.603+/-0.486 $\chi^2$/NDF:1935.1/50

All: 12.679+/-0.352 $\chi^2$/NDF: 4225.5/93

# diff_bpm0l04X_rms vs Slug, Sign Corrected




Right In: 5322.265+/-1.313 $\chi^2$/NDF: 3211194.8/19

Left Out: 2242.334+/-0.363 $\chi^2$/NDF:657865.5/24

Right Out: 4787.141+/-1.060 $\chi^2$/NDF: 3581228.4/25

Left In: 2248.582+/-0.375 $\chi^2$/NDF:642255.3/22

Left: 2245.362+/-0.261 $\chi^2$/NDF: 1300264.0/47

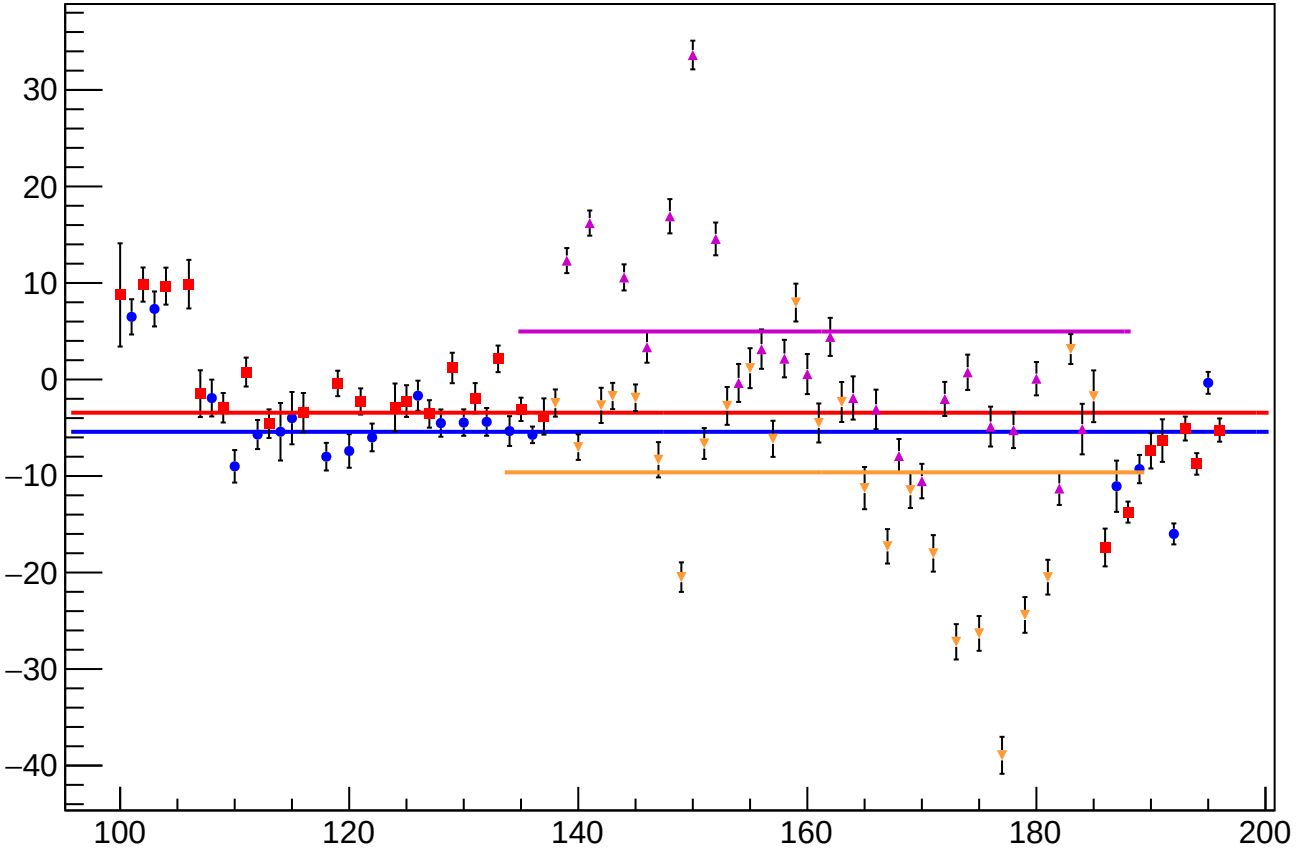
Right: 4998.224+/-0.825 $\chi^2$/NDF: 6892966.3/45

In: 2480.096+/-0.360 $\chi^2$/NDF:8918768.1/42

Out: 2510.080+/-0.344 $\chi^2$/NDF:9396991.5/50

All: 2495.795+/-0.249 $\chi^2$/NDF: 18319383.2/9

# diff_bpm0l04Y_mean vs Slug, Sign Corrected




Right In: -5.420+/-0.330 $\chi^2$/NDF: 238.4/19

Left Out: -9.622+/-0.349 $\chi^2$/NDF:934.3/24

Right Out: -3.441+/-0.305 $\chi^2$/NDF: 351.4/25

Left In: 4.974+/-0.365 $\chi^2$/NDF:929.8/22

Left: -2.641+/-0.252 $\chi^2$/NDF: 2700.1/47

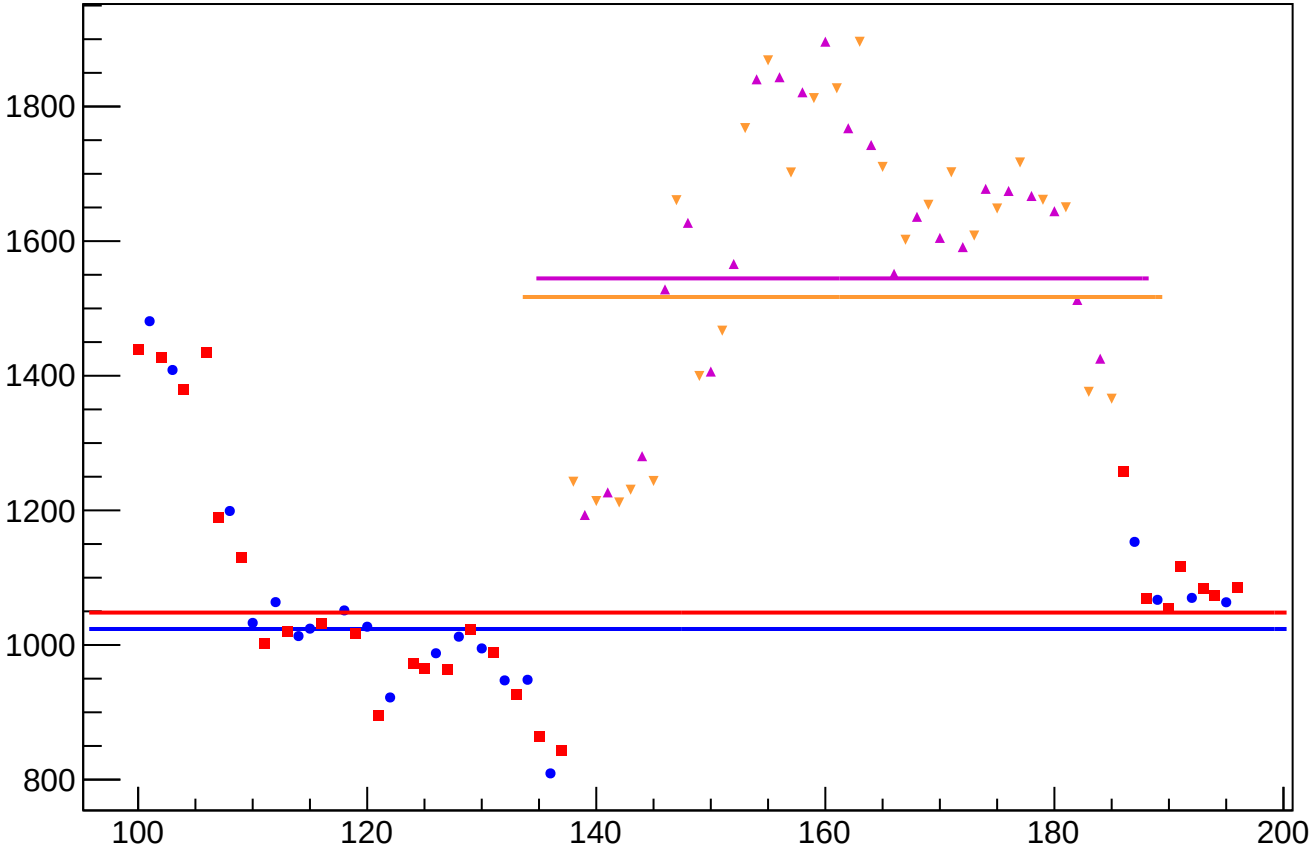
Right: -4.353+/-0.224 $\chi^2$/NDF: 609.1/45

In: -0.735+/-0.245 $\chi^2$/NDF:1614.6/42

Out: -6.120+/-0.230 $\chi^2$/NDF:1463.3/50

All: -3.597+/-0.168 $\chi^2$/NDF: 3335.0/93

# diff_bpm0l04Y_rms vs Slug, Sign Corrected




Right In: 1023.771+/-0.234 $\chi^2$/NDF: 394811.9/19

Left Out: 1517.008+/-0.247 $\chi^2$/NDF:832983.9/24

Right Out: 1048.162+/-0.216 $\chi^2$/NDF: 383524.5/25

Left In: 1544.620+/-0.258 $\chi^2$/NDF:638659.4/22

Left: 1530.214+/-0.178 $\chi^2$/NDF: 1477627.5/47

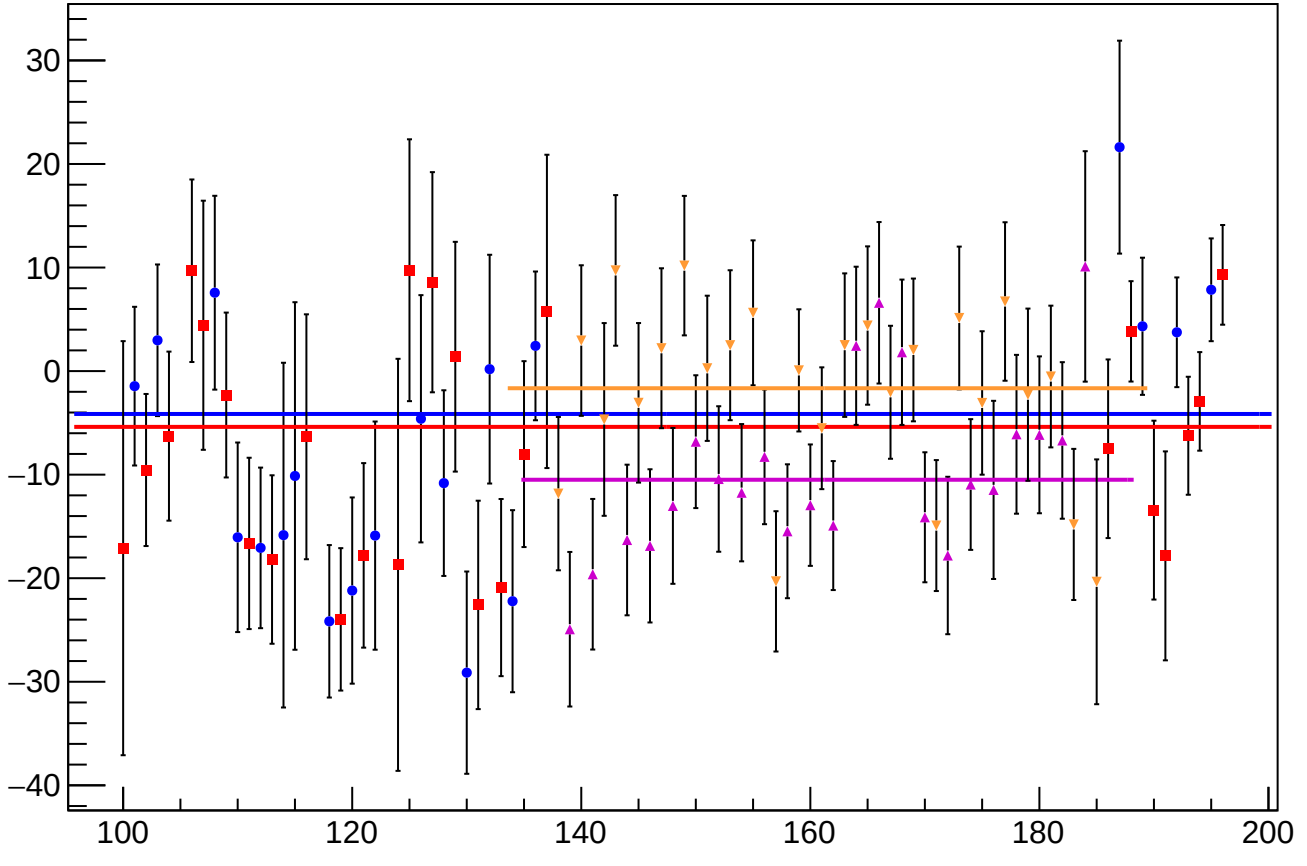
Right: 1036.923+/-0.159 $\chi^2$/NDF: 784217.0/45

In: 1258.537+/-0.173 $\chi^2$/NDF:3275114.2/42

Out: 1251.374+/-0.163 $\chi^2$/NDF:3260296.8/50

All: 1254.730+/-0.118 $\chi^2$/NDF: 6536321.2/93

# diff_bpm0l05X_mean vs Slug, Sign Corrected




Right In: -4.140+/-1.823 $\chi^2$/NDF: 48.2/19

Left Out: -1.655+/-1.426 $\chi^2$/NDF:31.5/24

Right Out: -5.387+/-1.570 $\chi^2$/NDF: 44.5/25

Left In: -10.492+/-1.480 $\chi^2$/NDF:24.9/22

Left: -5.911+/-1.027 $\chi^2$/NDF: 74.9/47

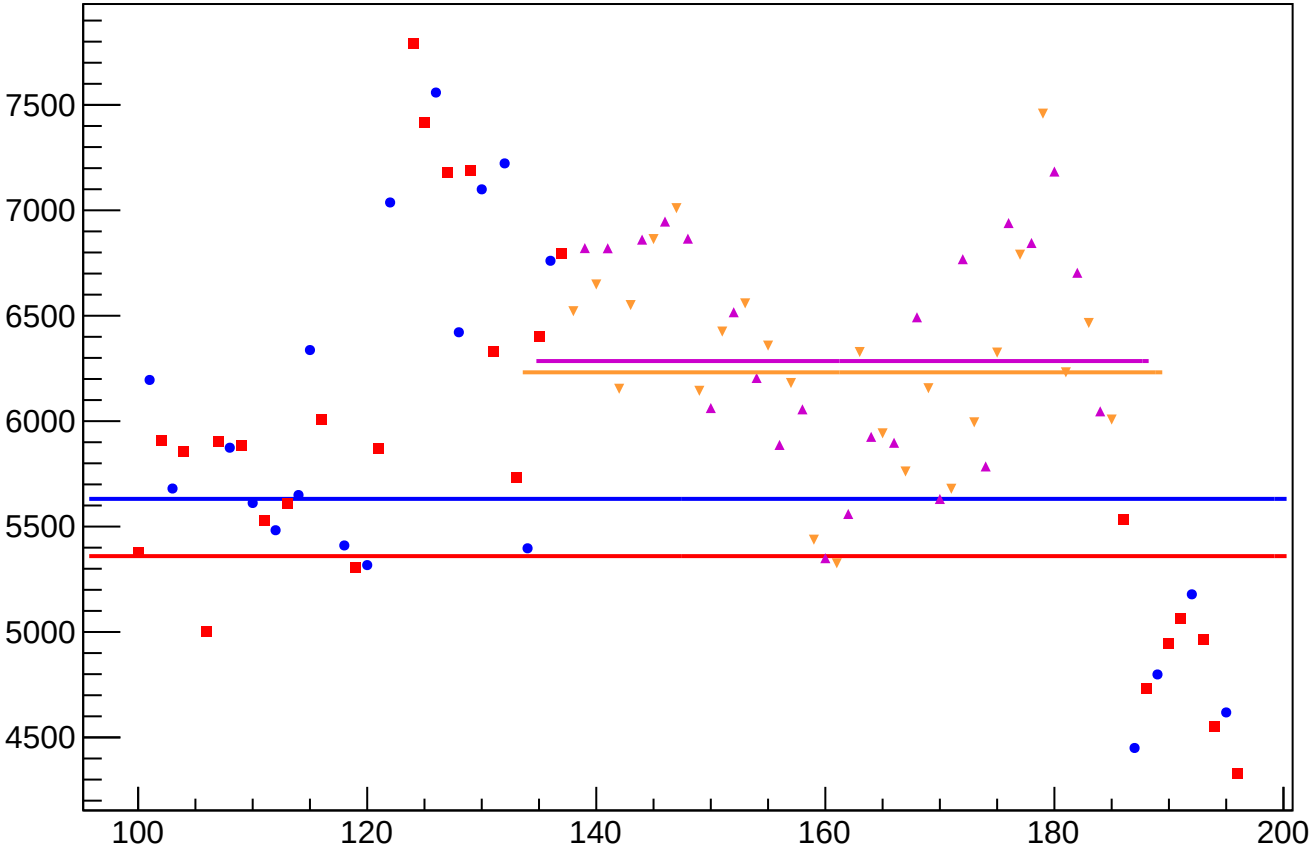
Right: -4.856+/-1.190 $\chi^2$/NDF: 92.9/45

In: -7.970+/-1.149 $\chi^2$/NDF:80.4/42

Out: -3.342+/-1.056 $\chi^2$/NDF:79.1/50

All: -5.461+/-0.777 $\chi^2$/NDF: 168.2/93

# diff_bpm0l05X_rms vs Slug, Sign Corrected




Right In: 5631.376+/-1.289 $\chi^2$/NDF: 414559.6/19

Left Out: 6231.572+/-1.009 $\chi^2$/NDF:226959.2/24

Right Out: 5359.853+/-1.110 $\chi^2$/NDF: 512468.3/25

Left In: 6285.058+/-1.046 $\chi^2$/NDF:265370.2/22

Left: 6257.332+/-0.726 $\chi^2$/NDF: 493684.0/47

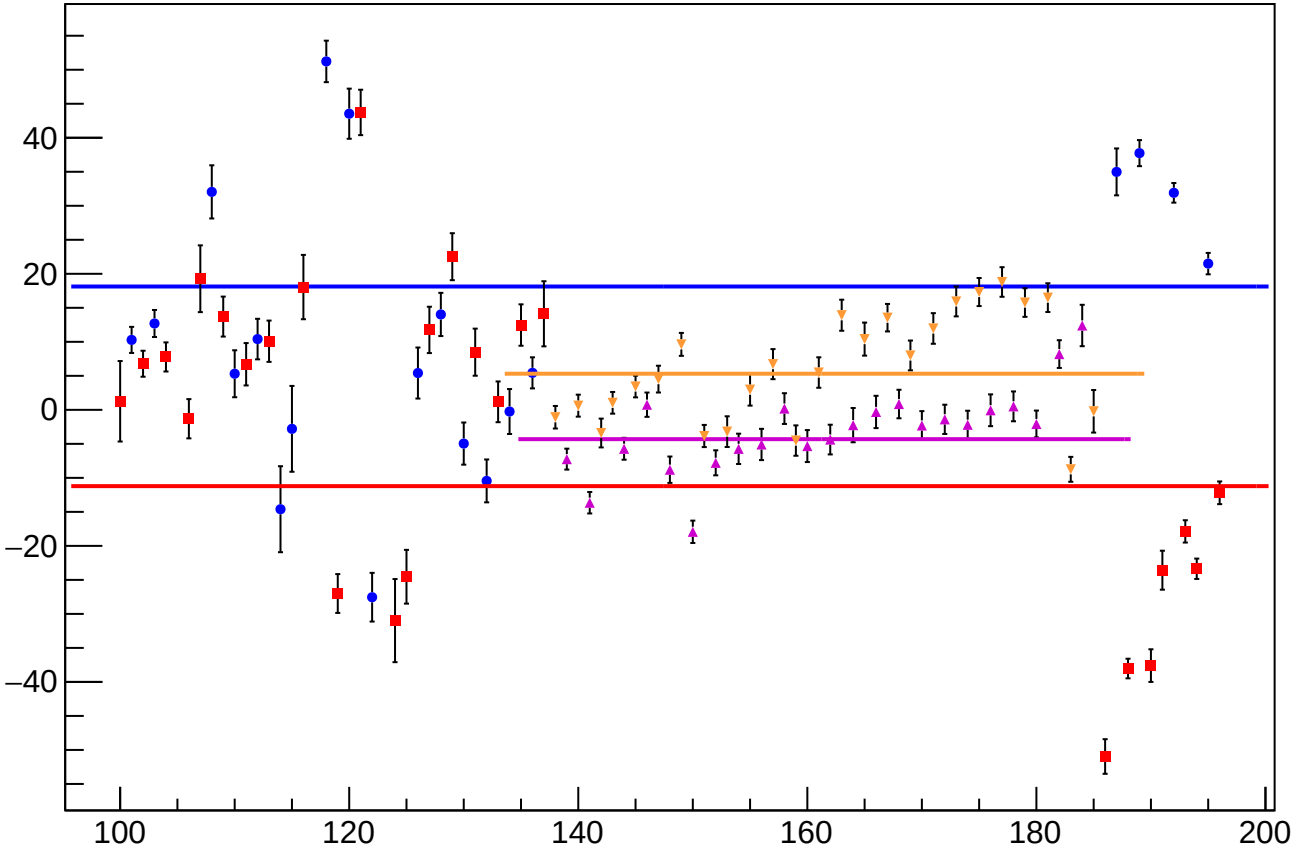
Right: 5475.472+/-0.841 $\chi^2$/NDF: 952500.1/45

In: 6025.452+/-0.812 $\chi^2$/NDF:834936.4/42

Out: 5837.425+/-0.746 $\chi^2$/NDF:1077218.3/50

All: 5923.502+/-0.550 $\chi^2$/NDF: 1941199.1/93

# diff_bpm0l05Y_mean vs Slug, Sign Corrected




Right In: 18.132+/-0.578 $\chi^2$/NDF: 860.5/19

Left Out: 5.313+/-0.400 $\chi^2$/NDF:378.1/24

Right Out: -11.218+/-0.501 $\chi^2$/NDF: 1829.0/25

Left In: -4.310+/-0.420 $\chi^2$/NDF:220.4/22

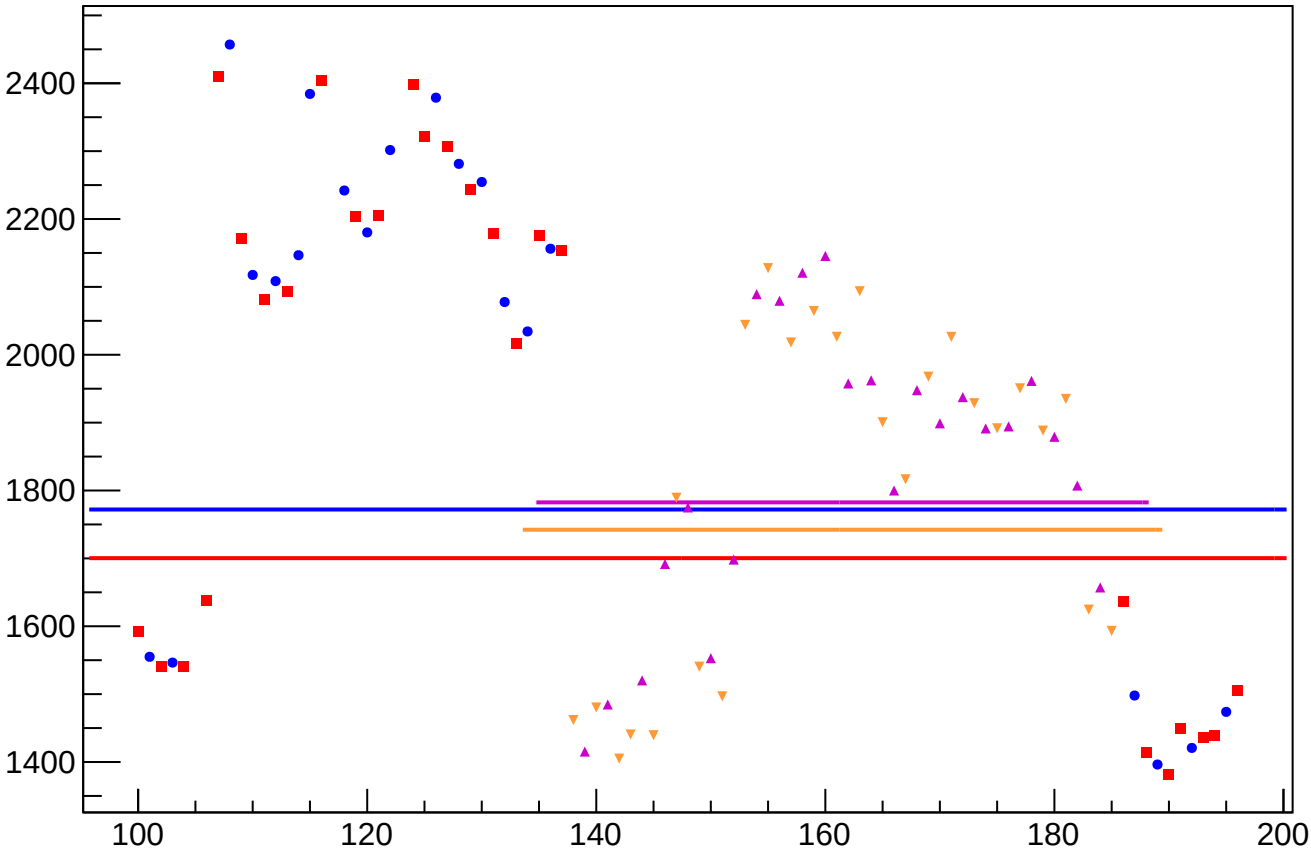
Left: 0.733+/-0.290 $\chi^2$/NDF: 873.5/47

Right: 1.380+/-0.379 $\chi^2$/NDF: 4162.3/45

In: 3.451+/-0.340 $\chi^2$/NDF:2067.9/42

Out: -1.129+/-0.313 $\chi^2$/NDF:2871.4/50

All: 0.972+/-0.230 $\chi^2$/NDF: 5037.6/93




Right In: 1772.017+/-0.409 $\chi^2$/NDF: 820221.1/19

Left Out: 1742.217+/-0.283 $\chi^2$/NDF:767663.9/24

Right Out: 1700.326+/-0.354 $\chi^2$/NDF: 922349.0/25

Left In: 1782.502+/-0.297 $\chi^2$/NDF:534374.9/22

Left: 1761.391+/-0.205 $\chi^2$/NDF: 1311677.3/47

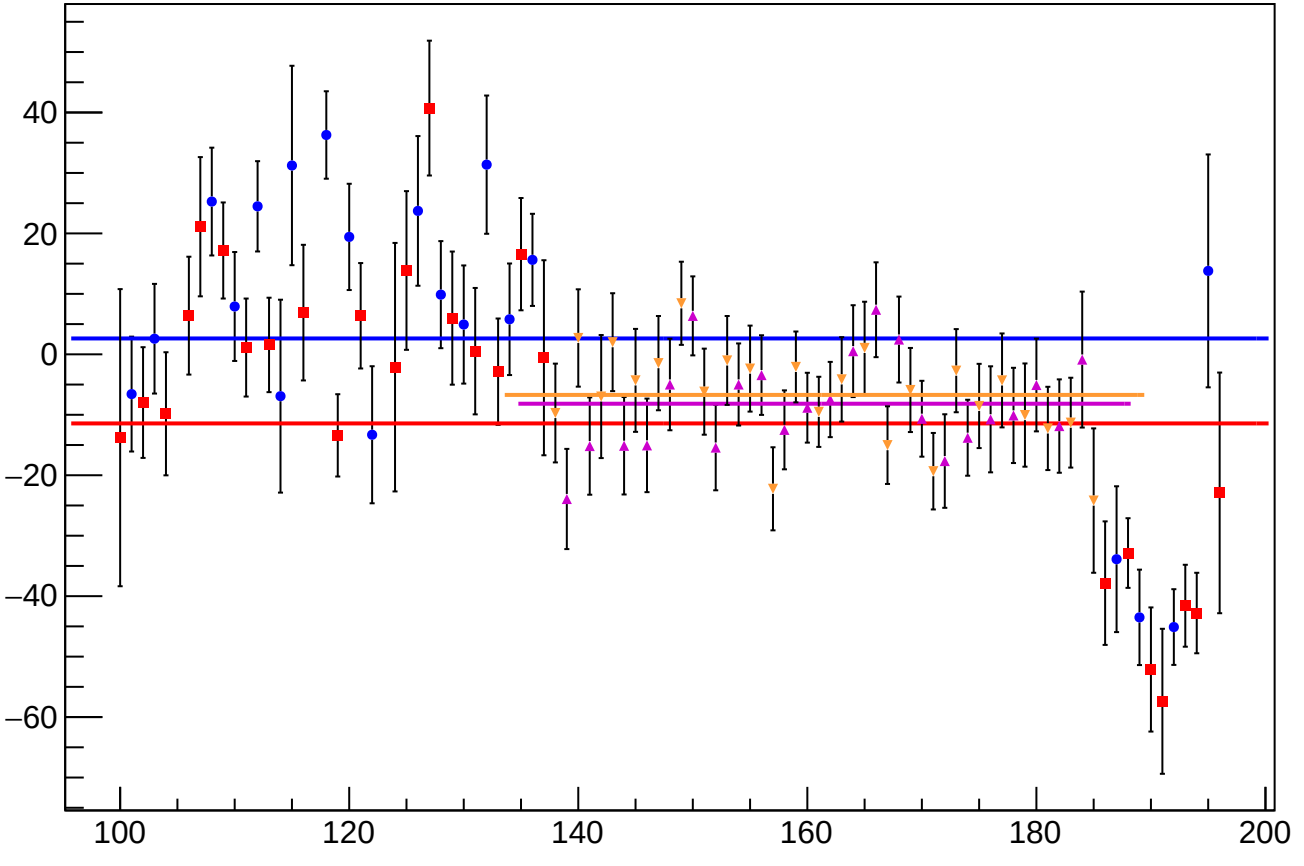
Right: 1731.099+/-0.268 $\chi^2$/NDF: 1760144.5/45

In: 1778.876+/-0.240 $\chi^2$/NDF:1355026.9/42

Out: 1725.894+/-0.221 $\chi^2$/NDF:1698545.2/50

All: 1750.197+/-0.163 $\chi^2$/NDF: 3079896.3/93

# diff_bpm0l06X_mean vs Slug, Sign Corrected




Right In: 2.625+/-2.080 $\chi^2$/NDF: 161.7/19

Left Out: -6.713+/-1.458 $\chi^2$/NDF:25.7/24

Right Out: -11.429+/-1.837 $\chi^2$/NDF: 169.9/25

Left In: -8.171+/-1.510 $\chi^2$/NDF:24.2/22

Left: -7.416+/-1.049 $\chi^2$/NDF: 50.3/47

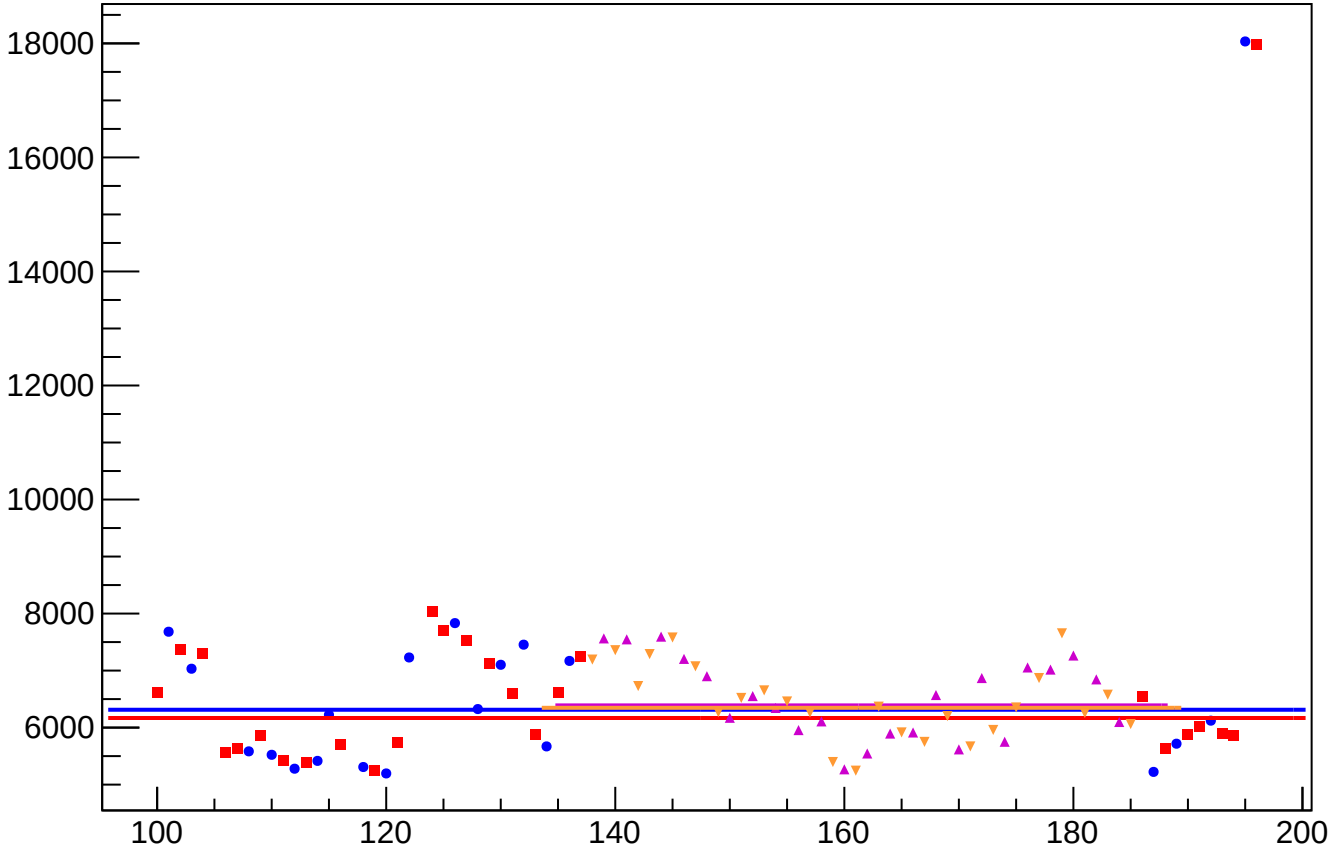
Right: -5.274+/-1.377 $\chi^2$/NDF: 357.3/45

In: -4.446+/-1.222 $\chi^2$/NDF:203.5/42

Out: -8.536+/-1.142 $\chi^2$/NDF:199.6/50

All: -6.630+/-0.834 $\chi^2$/NDF: 409.1/93

# diff_bpm0l06X_rms vs Slug, Sign Corrected




Right In: 6313.084+/-1.471 $\chi^2$/NDF: 1079871.2/19

Left Out: 6347.287+/-1.031 $\chi^2$/NDF:386025.6/24

Right Out: 6168.415+/-1.299 $\chi^2$/NDF: 998106.1/25

Left In: 6389.425+/-1.068 $\chi^2$/NDF:419756.4/22

Left: 6367.615+/-0.742 $\chi^2$/NDF: 806588.2/47

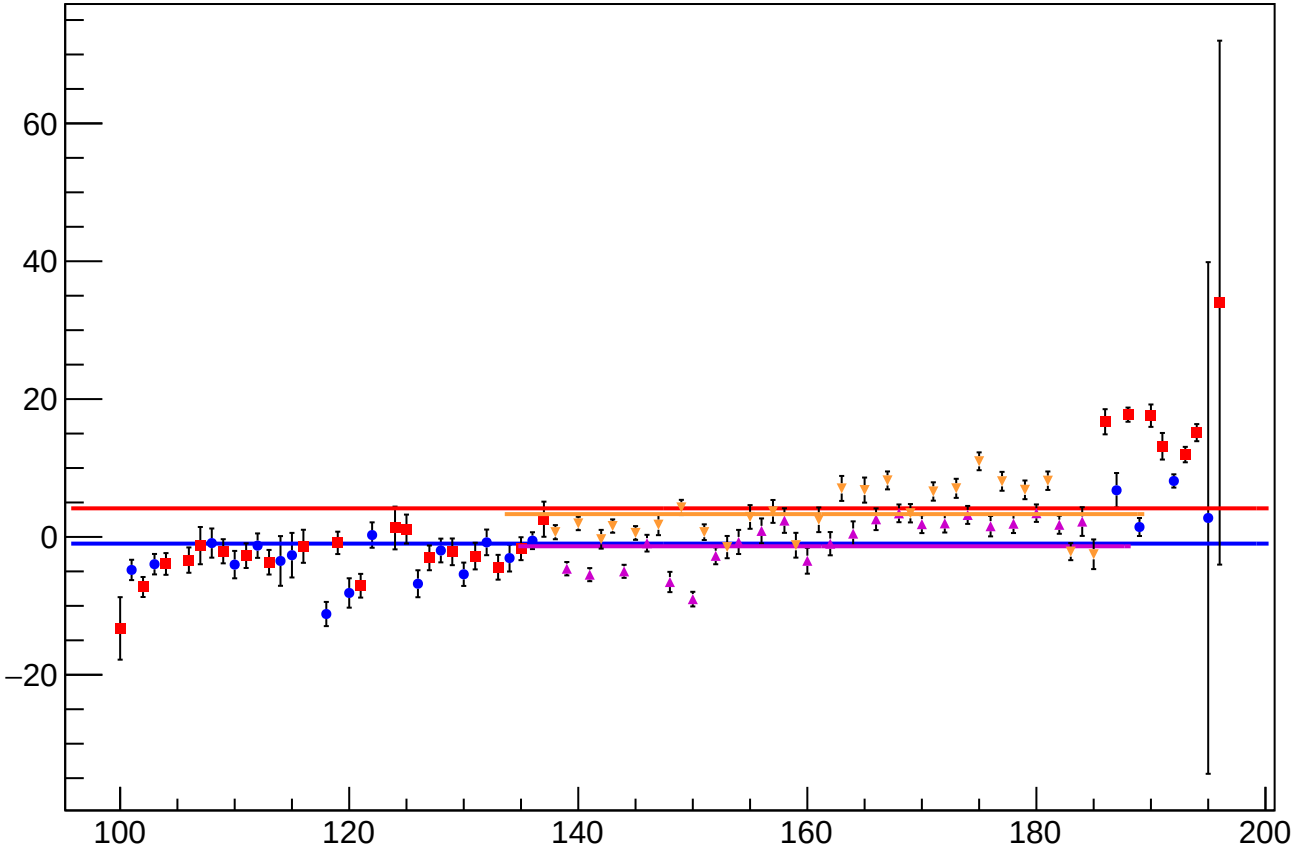
Right: 6231.781+/-0.974 $\chi^2$/NDF: 2083412.5/45

In: 6363.085+/-0.864 $\chi^2$/NDF:1501391.5/42

Out: 6278.153+/-0.807 $\chi^2$/NDF:1395769.9/50

All: 6317.741+/-0.590 $\chi^2$/NDF: 2902319.4/93

# diff_bpm0l06Y_mean vs Slug, Sign Corrected




Right In: -0.969+/-0.386 $\chi^2$/NDF: 178.9/19

Left Out: 3.311+/-0.264 $\chi^2$/NDF:177.9/24

Right Out: 4.148+/-0.342 $\chi^2$/NDF: 745.0/25

Left In: -1.355+/-0.277 $\chi^2$/NDF:196.3/22

Left: 1.083+/-0.191 $\chi^2$/NDF: 522.8/47

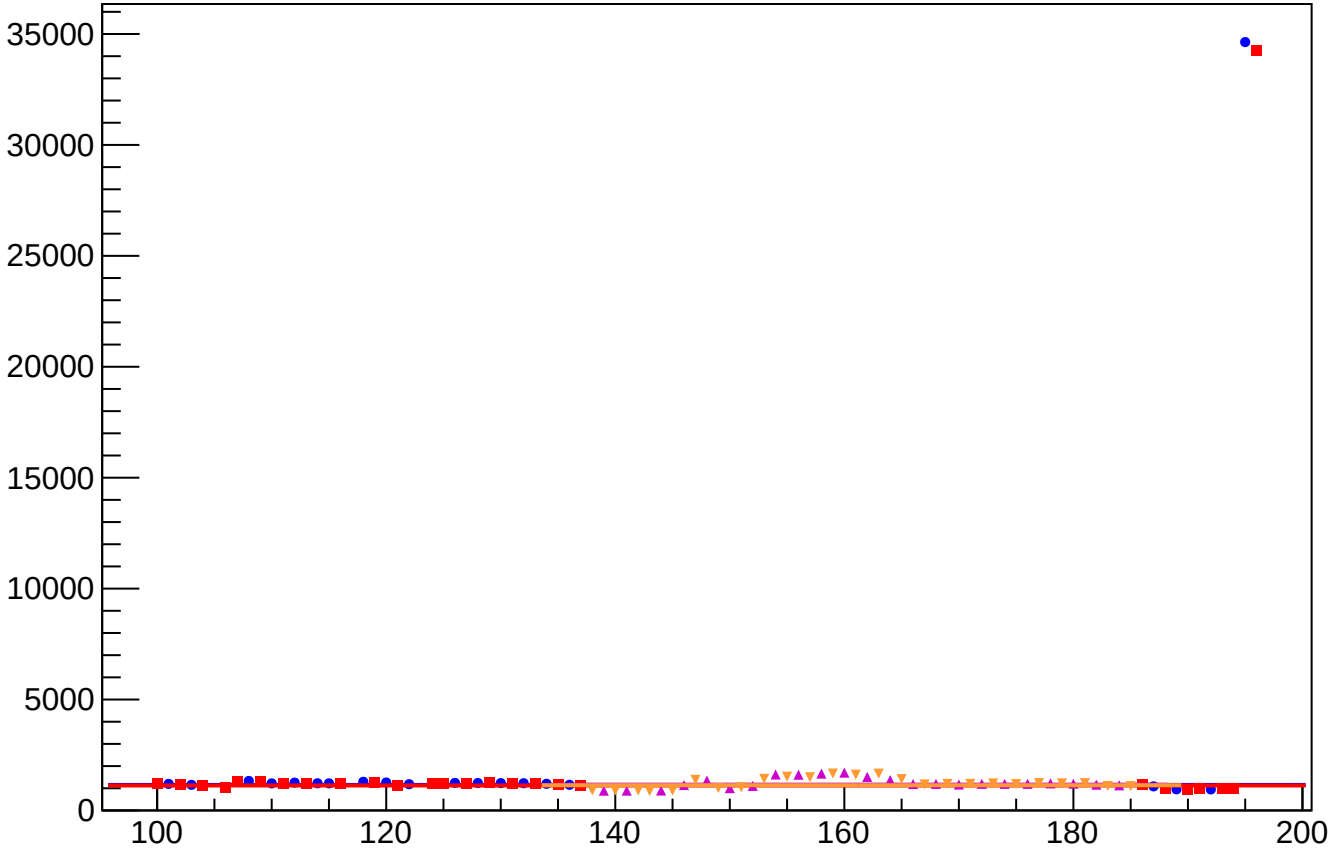
Right: 1.897+/-0.256 $\chi^2$/NDF: 1022.3/45

In: -1.224+/-0.225 $\chi^2$/NDF:375.8/42

Out: 3.624+/-0.209 $\chi^2$/NDF:926.7/50

All: 1.375+/-0.153 $\chi^2$/NDF: 1551.7/93

# diff_bpm0l06Y_rms vs Slug, Sign Corrected




Right In: 1151.348+/-0.273 $\chi^2$/NDF: 1827960.9/19

Left Out: 1137.150+/-0.187 $\chi^2$/NDF:1469686.1/24

Right Out: 1125.921+/-0.242 $\chi^2$/NDF: 1737411.0/25

Left In: 1159.432+/-0.196 $\chi^2$/NDF:1259793.6/22

Left: 1147.788+/-0.135 $\chi^2$/NDF: 2736258.7/47

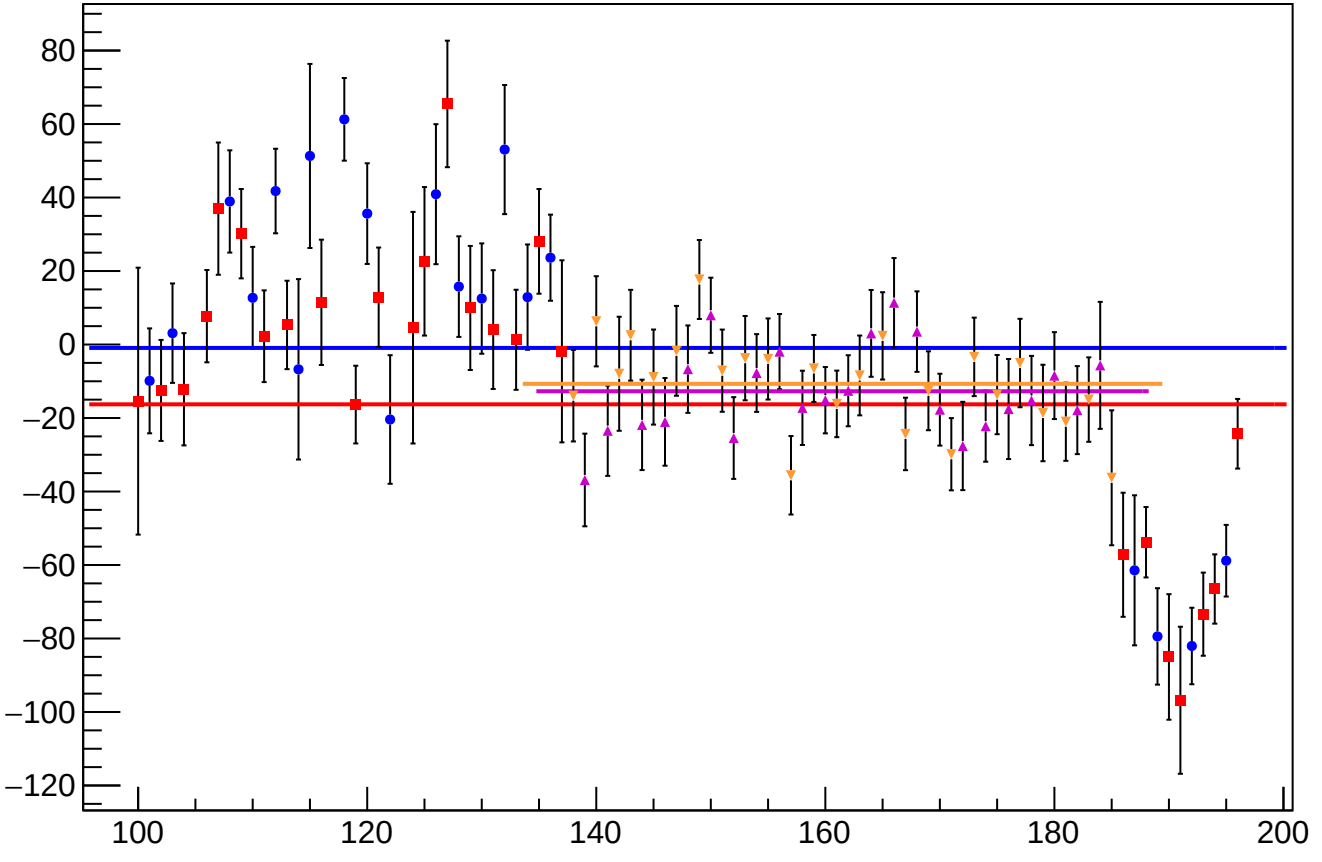
Right: 1137.105+/-0.181 $\chi^2$/NDF: 3570232.0/45

In: 1156.689+/-0.159 $\chi^2$/NDF:3088333.8/42

Out: 1132.950+/-0.148 $\chi^2$/NDF:3208446.1/50

All: 1143.964+/-0.108 $\chi^2$/NDF: 6308726.2/93

# diff_bpm0l07X_mean vs Slug, Sign Corrected




Right In: -0.925+/-3.102 $\chi^2$/NDF: 229.2/19

Left Out: -10.696+/-2.257 $\chi^2$/NDF:28.7/24

Right Out: -16.274+/-2.728 $\chi^2$/NDF: 190.5/25

Left In: -12.719+/-2.341 $\chi^2$/NDF:24.0/22

Left: -11.671+/-1.625 $\chi^2$/NDF: 53.1/47

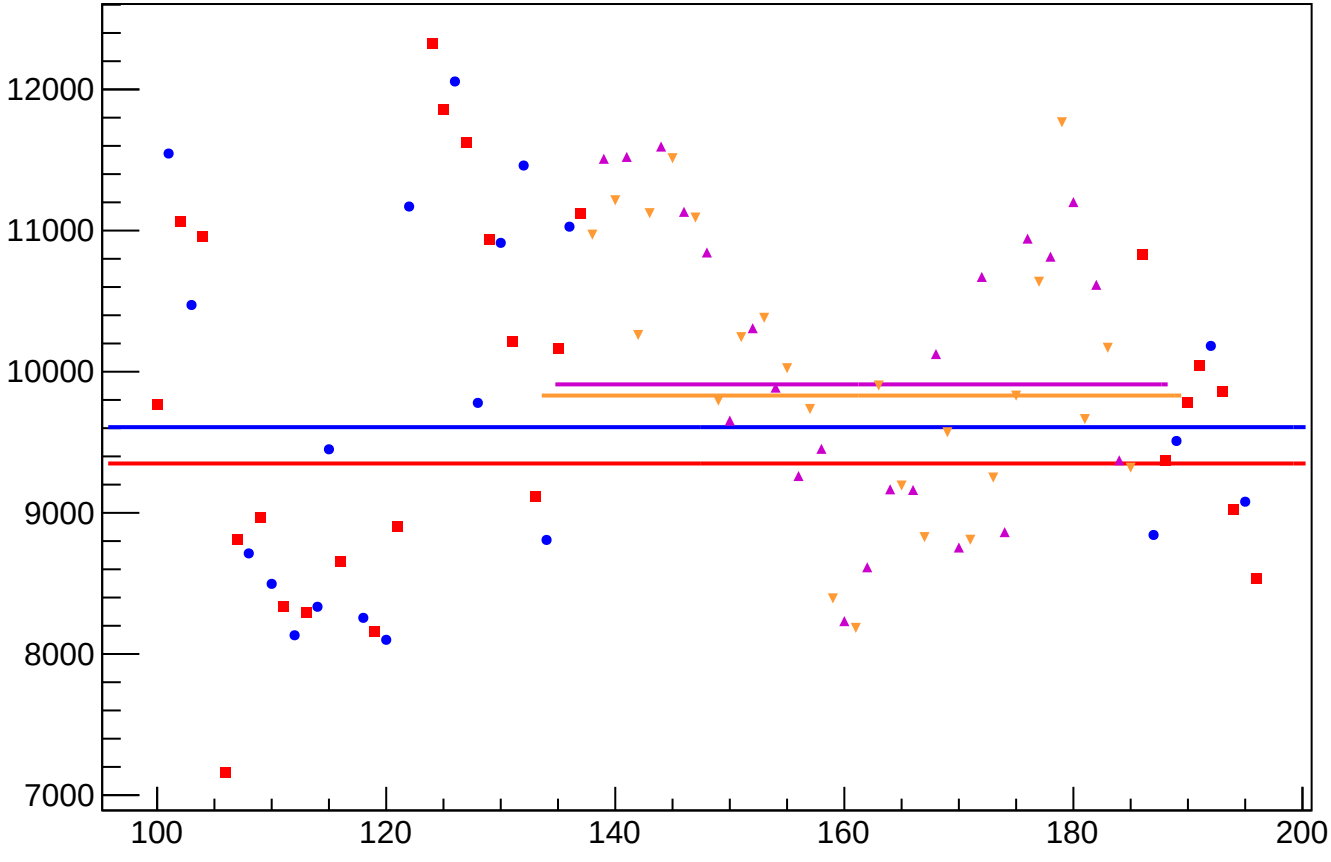
Right: -9.580+/-2.049 $\chi^2$/NDF: 433.5/45

In: -8.439+/-1.869 $\chi^2$/NDF:262.5/42

Out: -12.963+/-1.739 $\chi^2$/NDF:221.7/50

All: -10.863+/-1.273 $\chi^2$/NDF: 487.3/93

# diff_bpm0l07X_rms vs Slug, Sign Corrected




Right In: 9607.219+/-2.193 $\chi^2$/NDF: 294742.1/19

Left Out: 9831.301+/-1.596 $\chi^2$/NDF:356125.1/24

Right Out: 9349.765+/-1.929 $\chi^2$/NDF: 342121.8/25

Left In: 9910.300+/-1.655 $\chi^2$/NDF:389368.1/22

Left: 9869.364+/-1.149 $\chi^2$/NDF: 746673.5/47

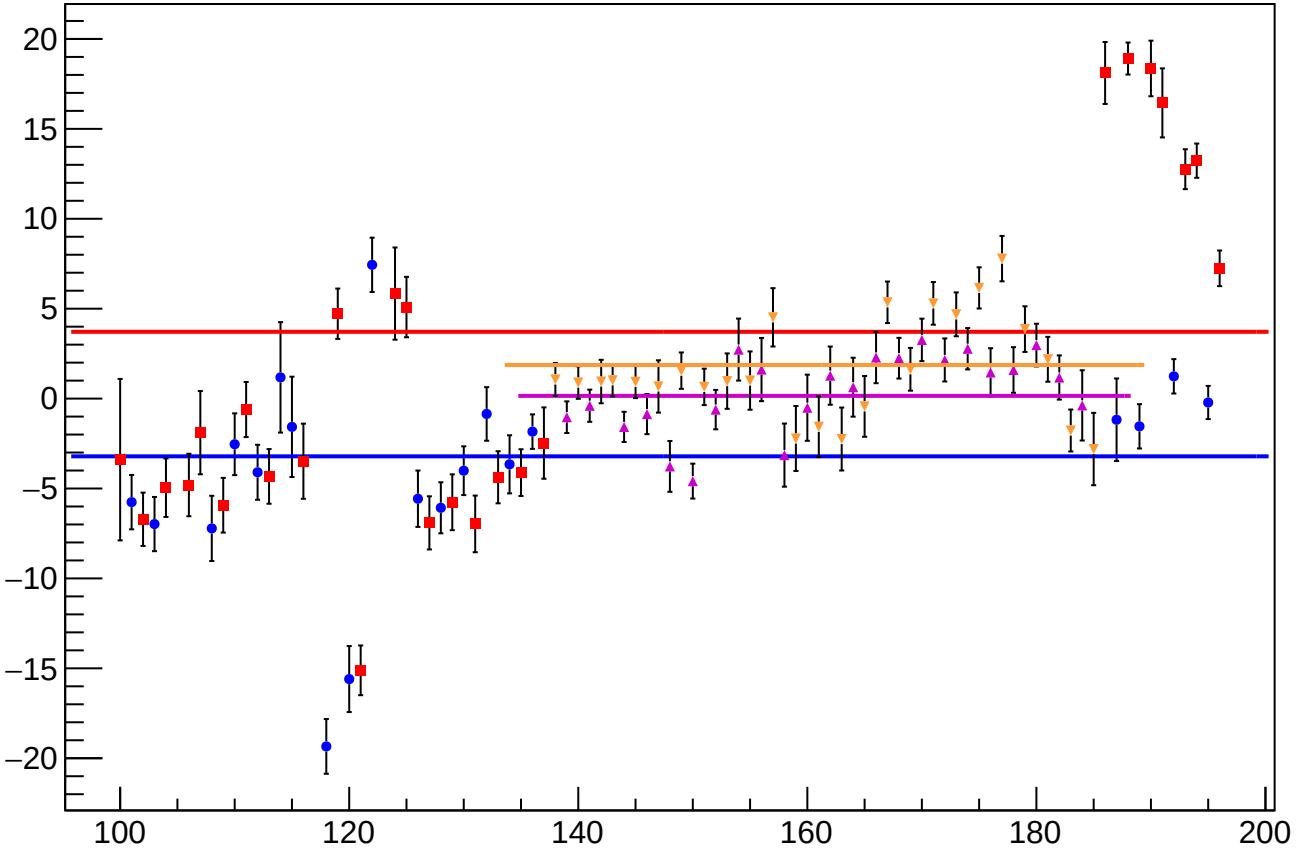
Right: 9462.053+/-1.449 $\chi^2$/NDF: 644632.7/45

In: 9800.323+/-1.321 $\chi^2$/NDF:696275.9/42

Out: 9635.608+/-1.230 $\chi^2$/NDF:735236.5/50

All: 9712.065+/-0.900 $\chi^2$/NDF: 1439840.2/93

# diff_bpm0l07Y_mean vs Slug, Sign Corrected




Right In: -3.211+/-0.319 $\chi^2$/NDF: 270.5/19

Left Out: 1.869+/-0.243 $\chi^2$/NDF:103.2/24

Right Out: 3.714+/-0.285 $\chi^2$/NDF: 1271.8/25

Left In: 0.152+/-0.254 $\chi^2$/NDF:75.7/22

Left: 1.051+/-0.176 $\chi^2$/NDF: 202.7/47

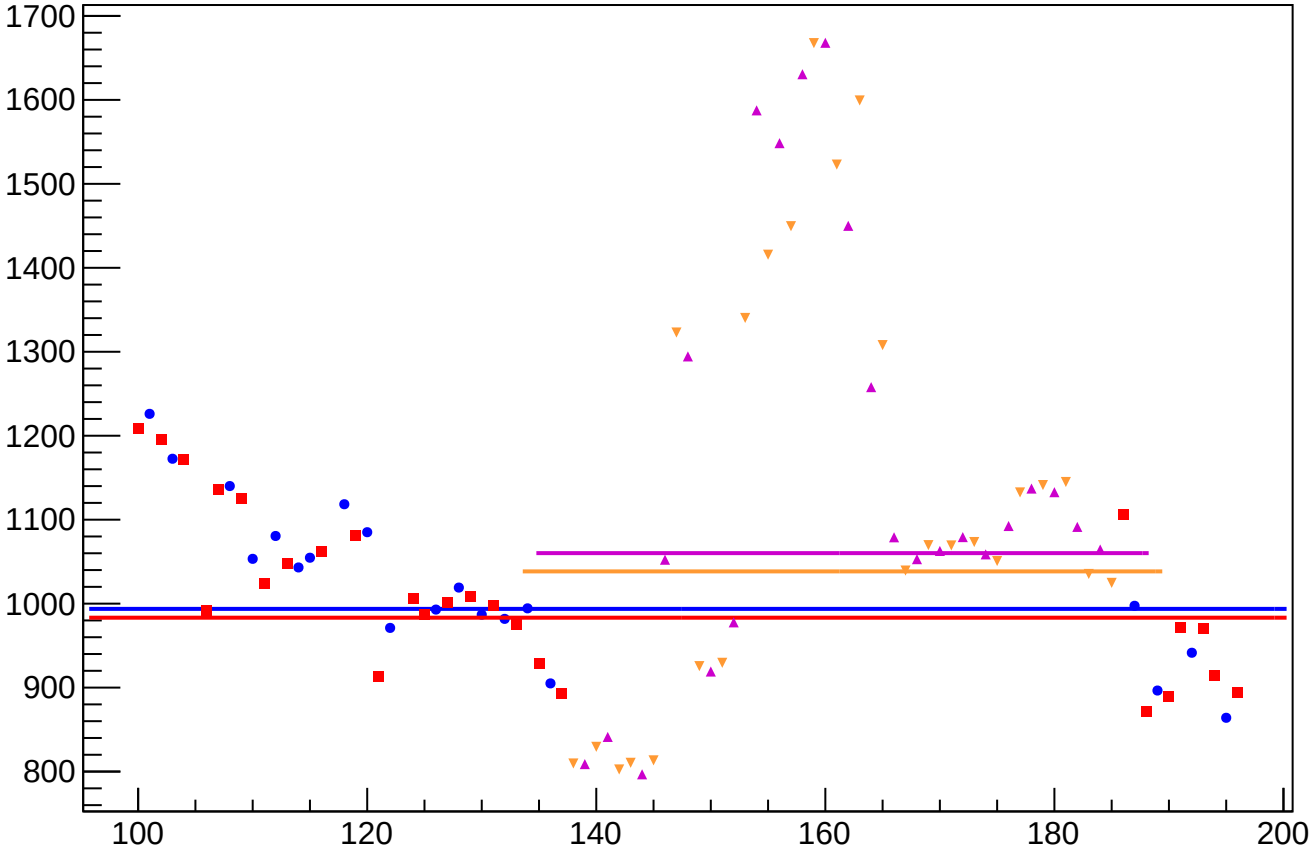
Right: 0.634+/-0.213 $\chi^2$/NDF: 1804.4/45

In: -1.157+/-0.199 $\chi^2$/NDF:414.1/42

Out: 2.643+/-0.185 $\chi^2$/NDF:1399.3/50

All: 0.882+/-0.135 $\chi^2$/NDF: 2009.3/93

# diff_bpm0l07Y_rms vs Slug, Sign Corrected




Right In: 993.764+/-0.225 $\chi^2$/NDF: 193463.0/19

Left Out: 1038.406+/-0.172 $\chi^2$/NDF:1706682.8/24

Right Out: 983.266+/-0.202 $\chi^2$/NDF: 206730.6/25

Left In: 1060.162+/-0.180 $\chi^2$/NDF:1523219.9/22

Left: 1048.767+/-0.124 $\chi^2$/NDF: 3237559.4/47

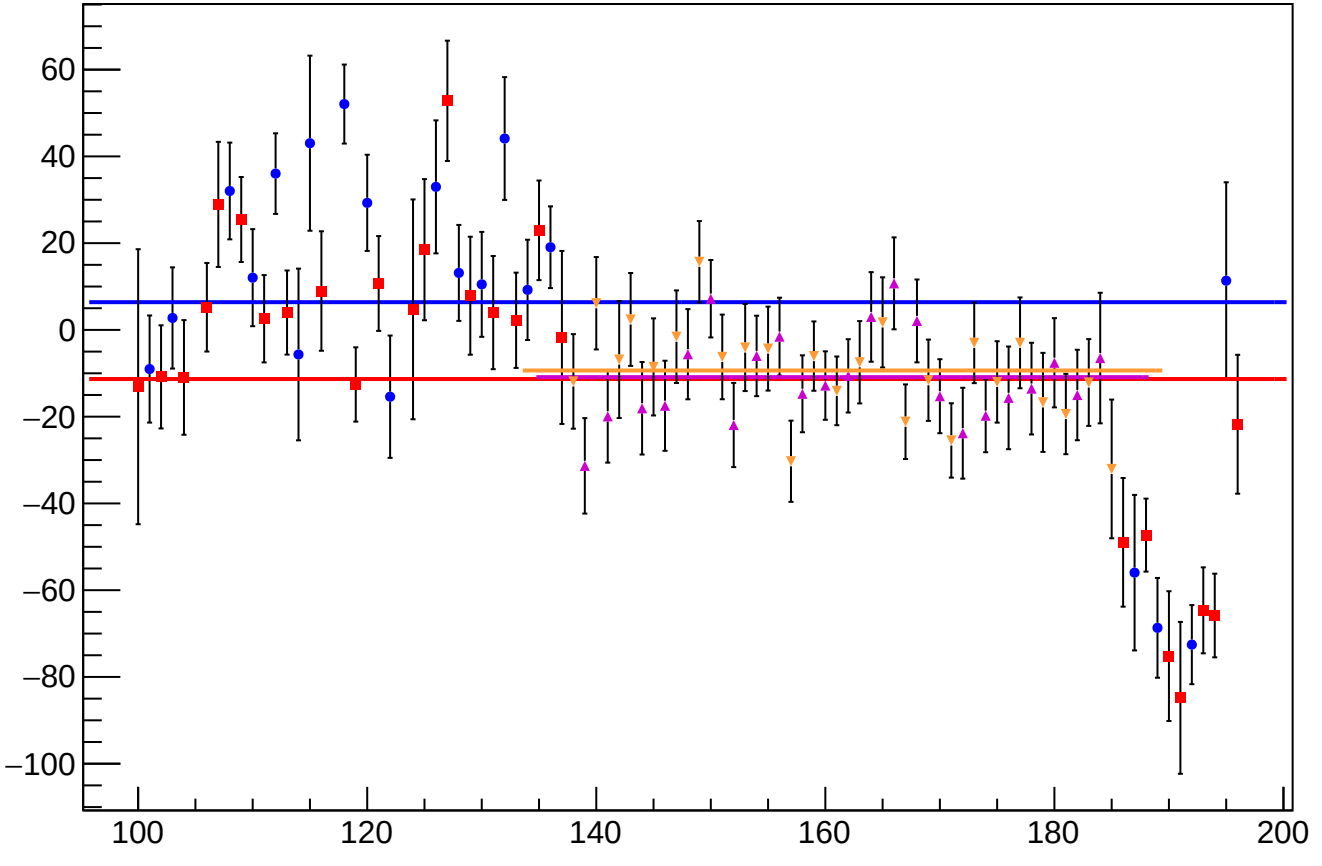
Right: 987.935+/-0.150 $\chi^2$/NDF: 401397.8/45

In: 1034.321+/-0.141 $\chi^2$/NDF:1769671.5/42

Out: 1015.264+/-0.131 $\chi^2$/NDF:1956758.7/50

All: 1024.096+/-0.096 $\chi^2$/NDF: 3736282.4/93

# diff_bpm0l08X_mean vs Slug, Sign Corrected




Right In: 6.393+/-2.678 $\chi^2$/NDF: 195.1/19

Left Out: -9.355+/-1.969 $\chi^2$/NDF:28.5/24

Right Out: -11.320+/-2.371 $\chi^2$/NDF: 196.3/25

Left In: -10.892+/-2.043 $\chi^2$/NDF:23.6/22

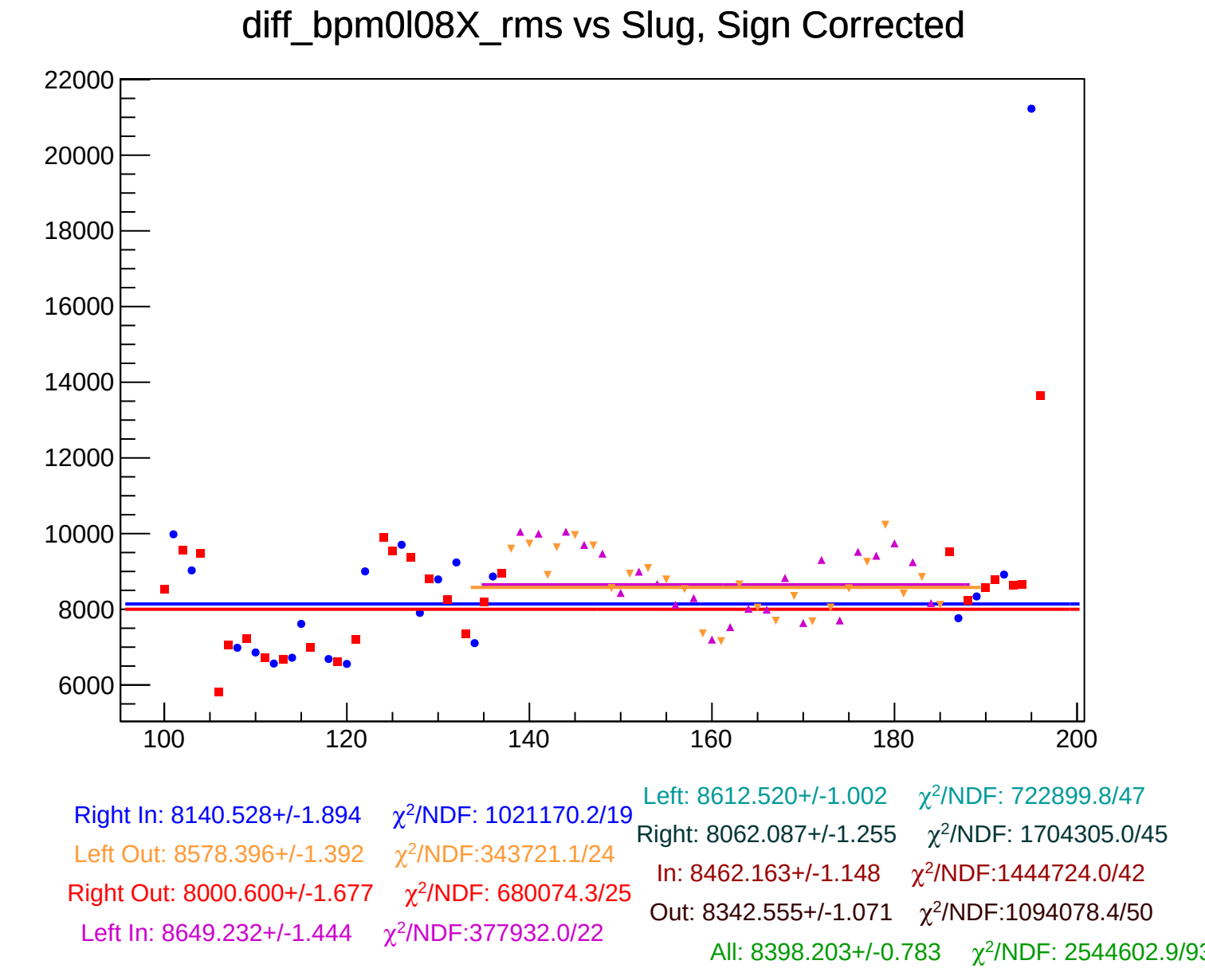
Left: -10.095+/-1.418 $\chi^2$/NDF: 52.4/47

Right: -3.536+/-1.775 $\chi^2$/NDF: 415.9/45

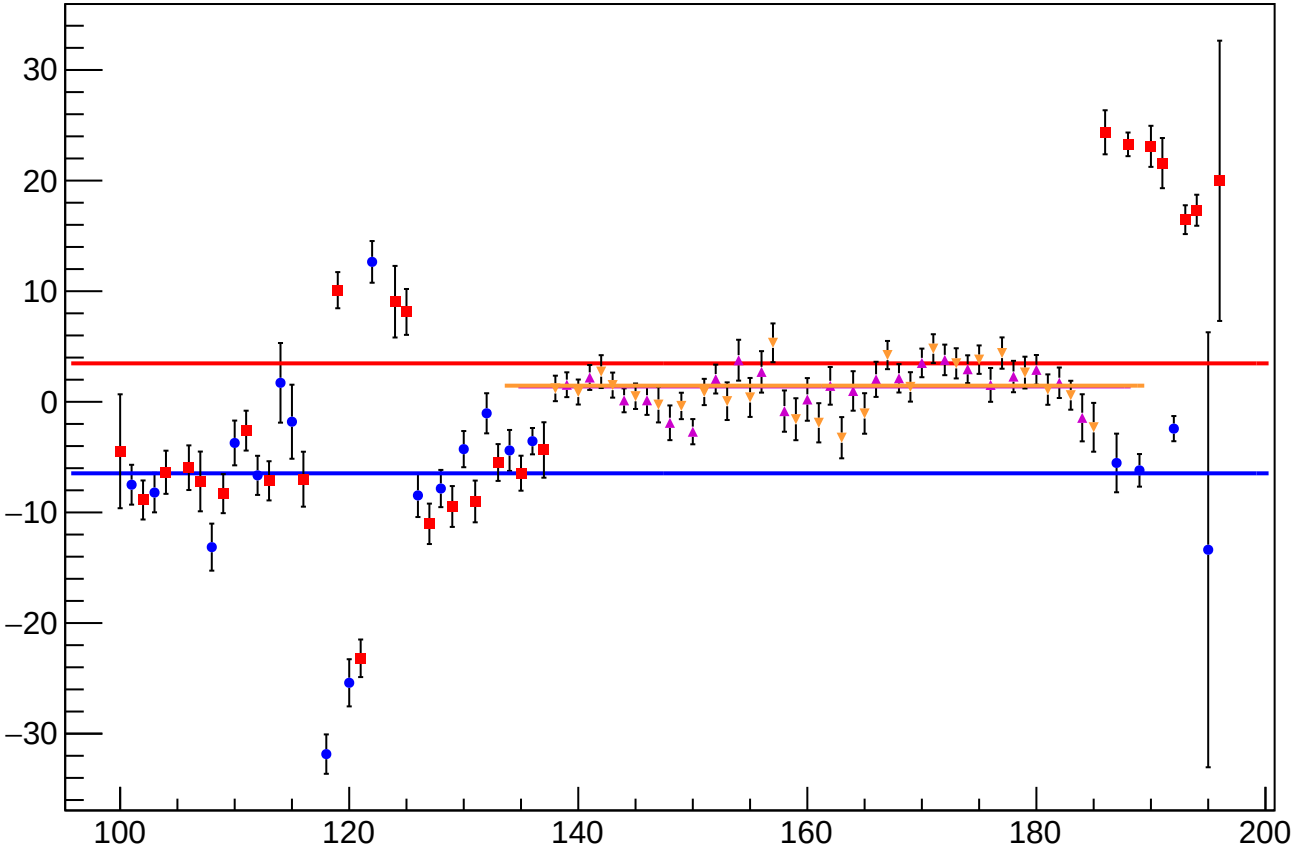
In: -4.535+/-1.624 $\chi^2$/NDF:245.0/42

Out: -10.157+/-1.515 $\chi^2$/NDF:225.2/50

All: -7.542+/-1.108 $\chi^2$/NDF: 476.6/93


diff_bpm0l08X_rms vs Slug, Sign Corrected
22000
20000
18000
16000
14000
12000
10000
8000
6000
100
120
140
160
180
200
Right In: 8140.528+/-1.894 χ²/NDF: 1021170.2/19
Left Out: 8578.396+/-1.392 χ²/NDF:343721.1/24
Right Out: 8000.600+/-1.677 χ²/NDF: 680074.3/25
Left In: 8649.232+/-1.444 χ²/NDF:377932.0/22
Left: 8612.520+/-1.002 χ²/NDF: 722899.8/47
Right: 8062.087+/-1.255 χ²/NDF: 1704305.0/45
In: 8462.163+/-1.148 χ²/NDF:1444724.0/42
Out: 8342.555+/-1.071 χ²/NDF:1094078.4/50
All: 8398.203+/-0.783 χ²/NDF: 2544602.9/93

# diff_bpm0l08Y_mean vs Slug, Sign Corrected




Right In: -6.464+/-0.406 $\chi^2$/NDF: 437.6/19

Left Out: 1.461+/-0.281 $\chi^2$/NDF:51.0/24

Right Out: 3.476+/-0.361 $\chi^2$/NDF: 1555.9/25

Left In: 1.390+/-0.294 $\chi^2$/NDF:35.5/22

Left: 1.427+/-0.203 $\chi^2$/NDF: 86.6/47

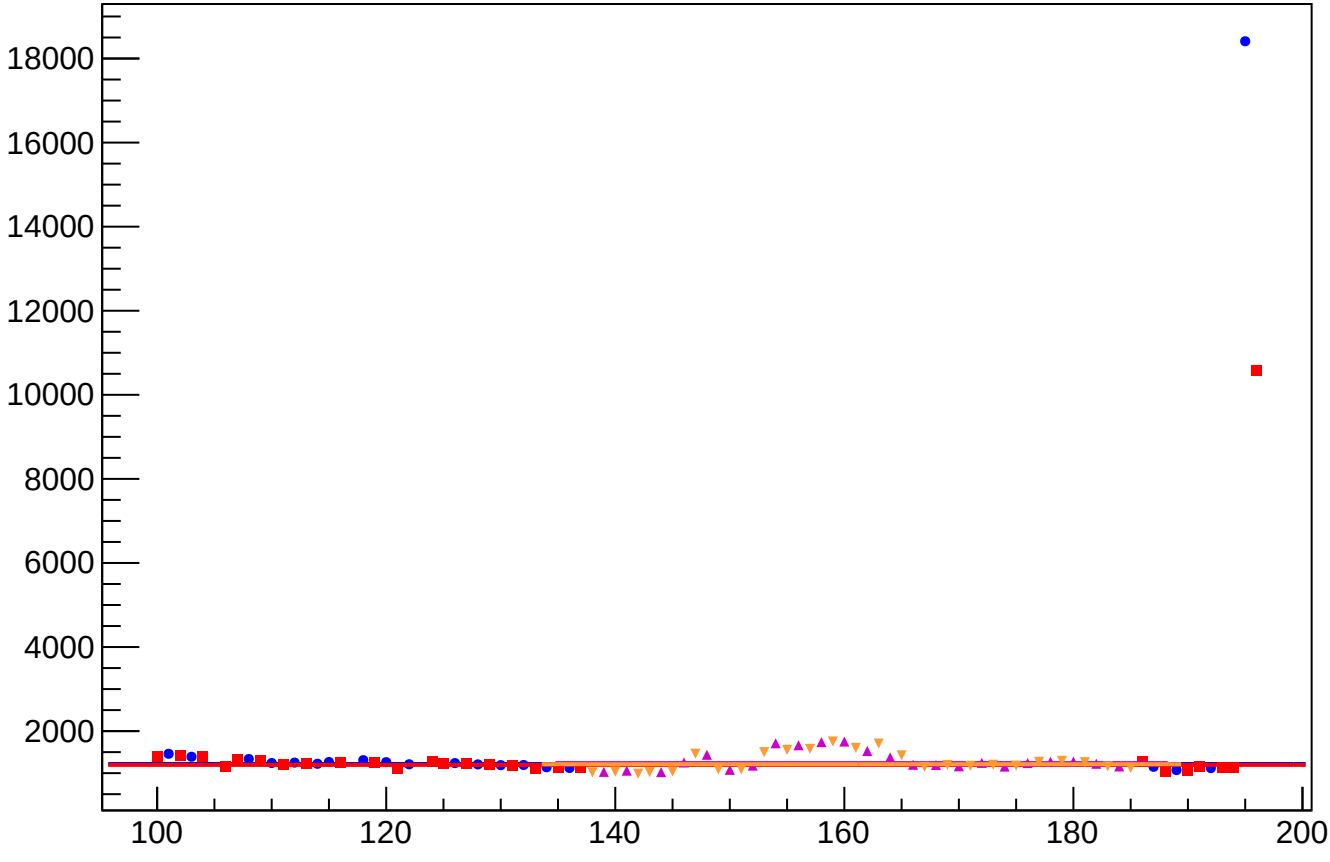
Right: -0.909+/-0.270 $\chi^2$/NDF: 2327.9/45

In: -1.312+/-0.238 $\chi^2$/NDF:718.2/42

Out: 2.220+/-0.222 $\chi^2$/NDF:1626.4/50

All: 0.583+/-0.162 $\chi^2$/NDF: 2462.3/93

# diff_bpm0l08Y_rms vs Slug, Sign Corrected




Right In: 1218.110+/-0.287 $\chi^2$/NDF: 1649862.7/19

Left Out: 1213.262+/-0.198 $\chi^2$/NDF:1012762.9/24

Right Out: 1195.977+/-0.255 $\chi^2$/NDF: 1249970.1/25

Left In: 1239.174+/-0.208 $\chi^2$/NDF:885596.7/22

Left: 1225.599+/-0.144 $\chi^2$/NDF: 1906483.7/47

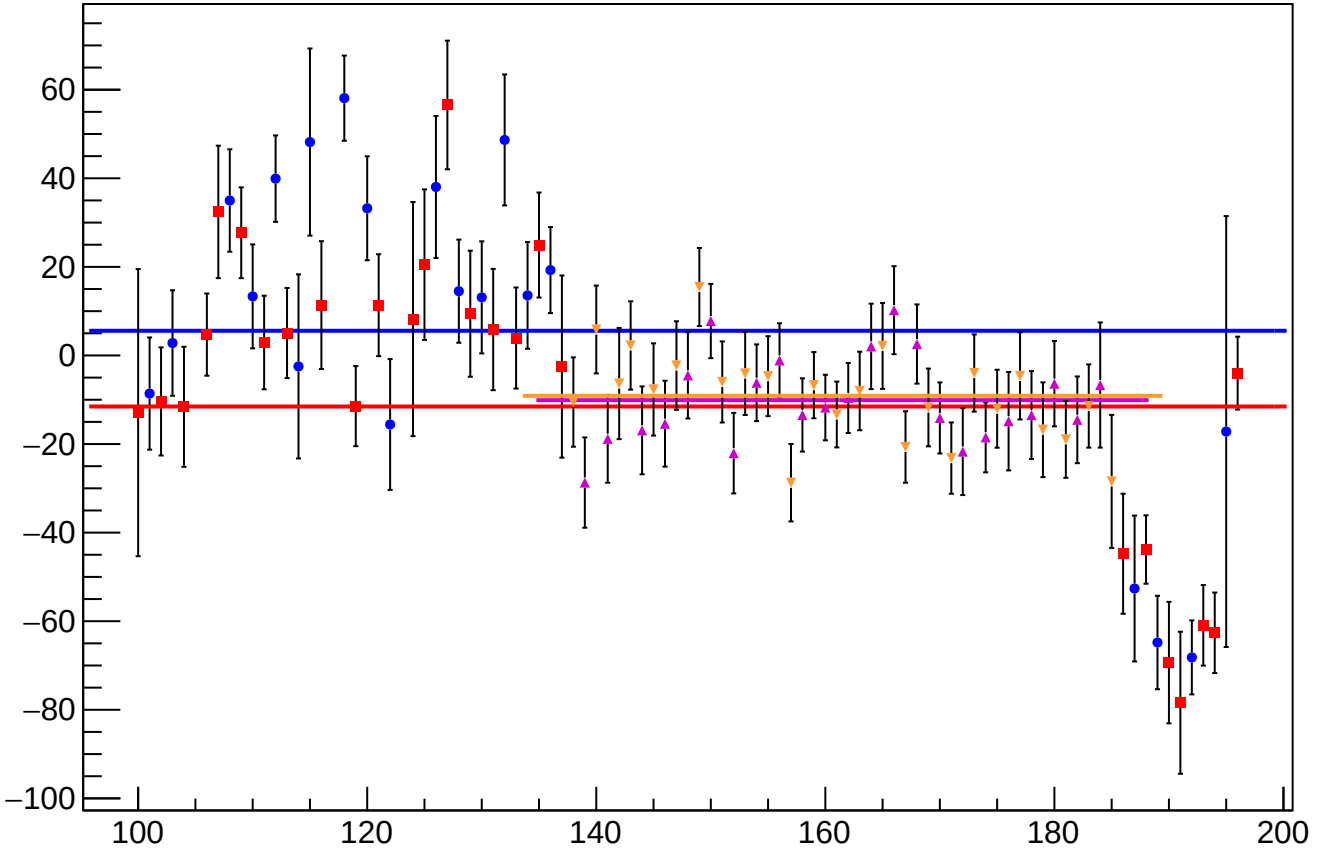
Right: 1205.741+/-0.191 $\chi^2$/NDF: 2903148.9/45

In: 1231.928+/-0.169 $\chi^2$/NDF:2538984.7/42

Out: 1206.755+/-0.157 $\chi^2$/NDF:2265591.7/50

All: 1218.421+/-0.115 $\chi^2$/NDF: 4816546.8/93

# diff_bpm0l09X_mean vs Slug, Sign Corrected




Right In: 5.573+/-2.745 $\chi^2$/NDF: 213.4/19

Left Out: -9.114+/-1.842 $\chi^2$/NDF:28.8/24

Right Out: -11.520+/-2.298 $\chi^2$/NDF: 199.3/25

Left In: -10.095+/-1.911 $\chi^2$/NDF:24.3/22

Left: -9.587+/-1.326 $\chi^2$/NDF: 53.2/47

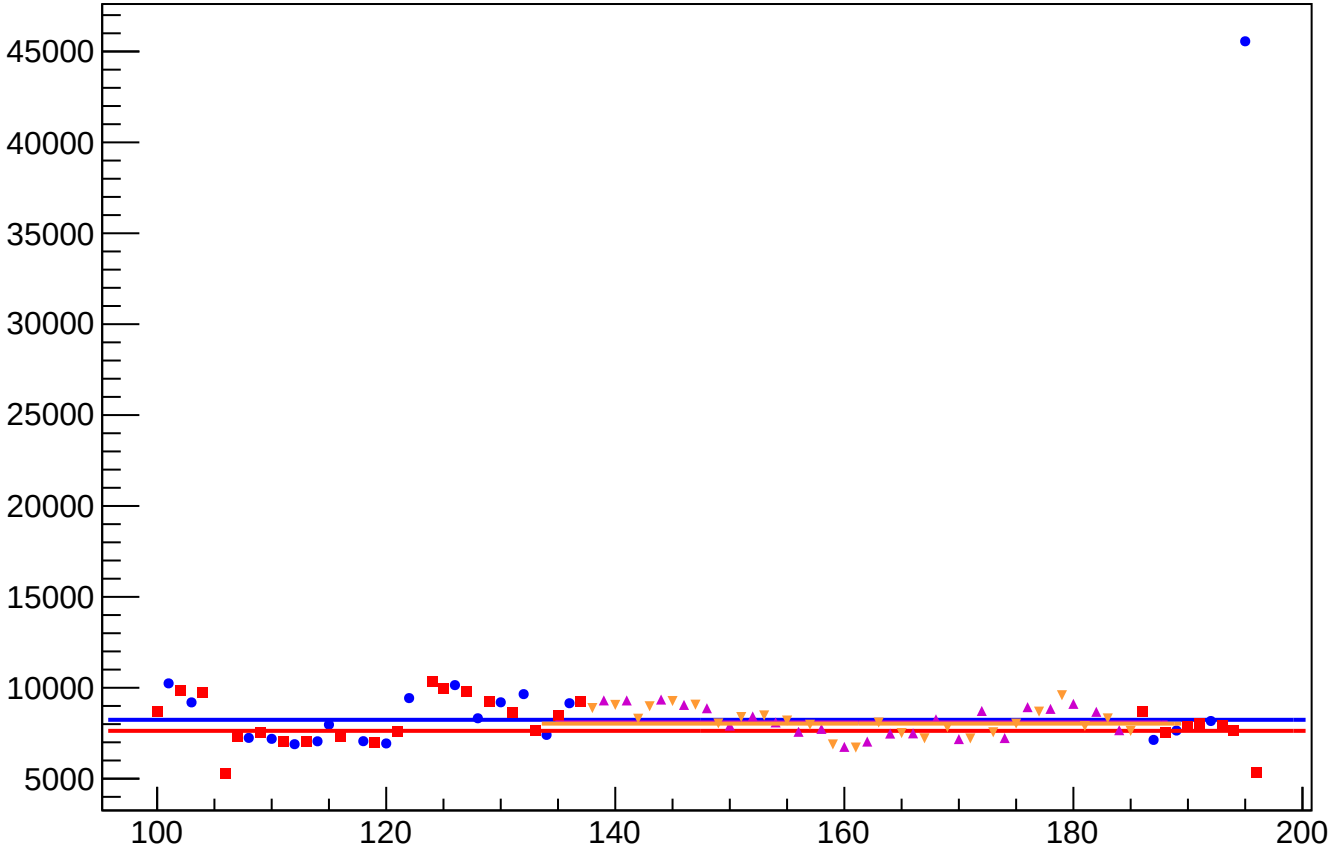
Right: -4.475+/-1.762 $\chi^2$/NDF: 435.6/45

In: -4.978+/-1.568 $\chi^2$/NDF:259.7/42

Out: -10.055+/-1.437 $\chi^2$/NDF:228.7/50

All: -7.738+/-1.060 $\chi^2$/NDF: 494.1/93

# diff_bpm0l09X_rms vs Slug, Sign Corrected




Right In: 8237.977+/-1.941 $\chi^2$/NDF: 1483791.6/19

Left Out: 8028.056+/-1.303 $\chi^2$/NDF:332457.9/24

Right Out: 7630.578+/-1.625 $\chi^2$/NDF: 600854.7/25

Left In: 8095.368+/-1.351 $\chi^2$/NDF:367451.5/22

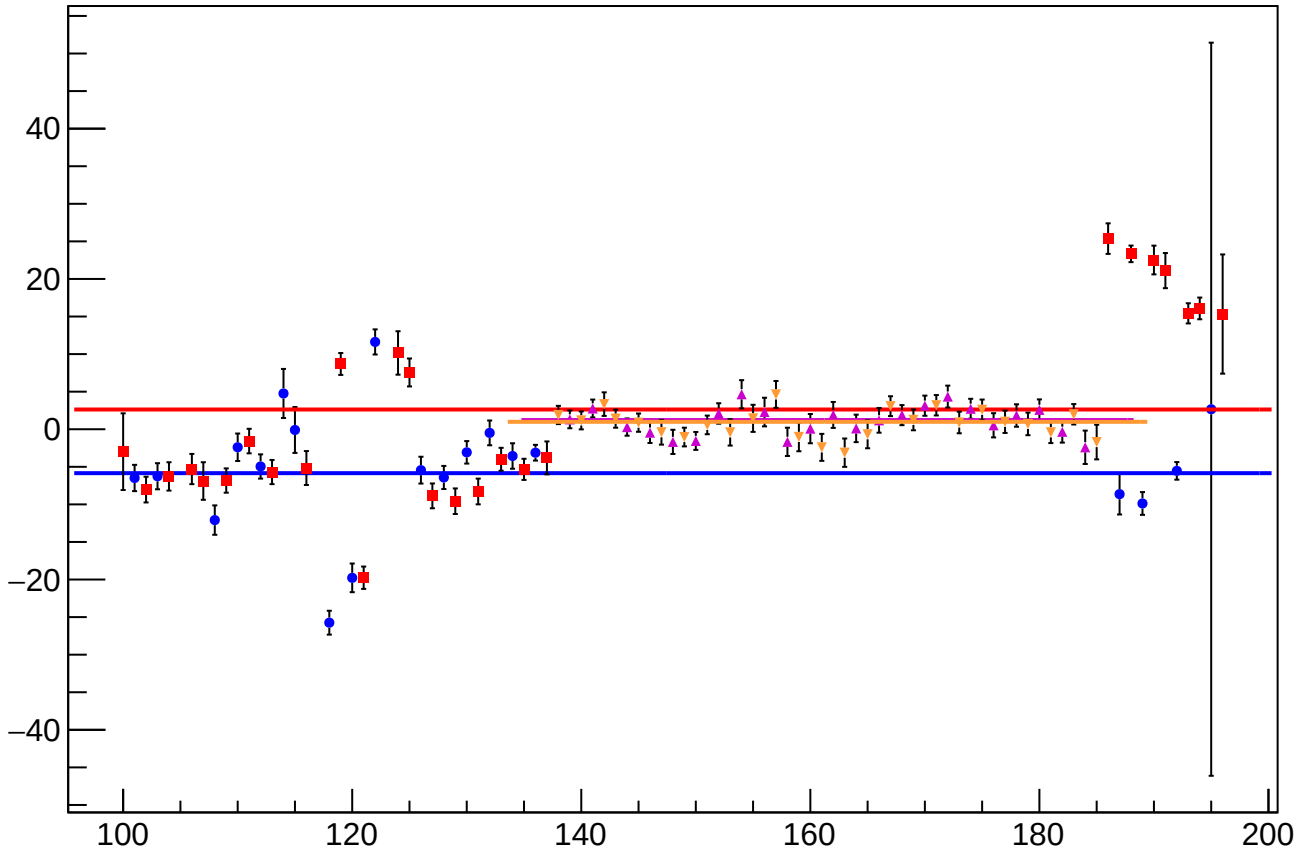
Left: 8060.478+/-0.938 $\chi^2$/NDF: 701195.2/47

Right: 7880.912+/-1.246 $\chi^2$/NDF: 2142231.0/45

In: 8141.941+/-1.109 $\chi^2$/NDF:1854879.5/42

Out: 7872.529+/-1.016 $\chi^2$/NDF:969733.6/50

All: 7995.521+/-0.749 $\chi^2$/NDF: 2856684.3/93




Right In: -5.845+/-0.379 $\chi^2$/NDF: 378.7/19

Left Out: 0.988+/-0.292 $\chi^2$/NDF:31.0/24

Right Out: 2.627+/-0.343 $\chi^2$/NDF: 1458.6/25

Left In: 1.219+/-0.307 $\chi^2$/NDF:33.1/22

Left: 1.098+/-0.212 $\chi^2$/NDF: 64.4/47

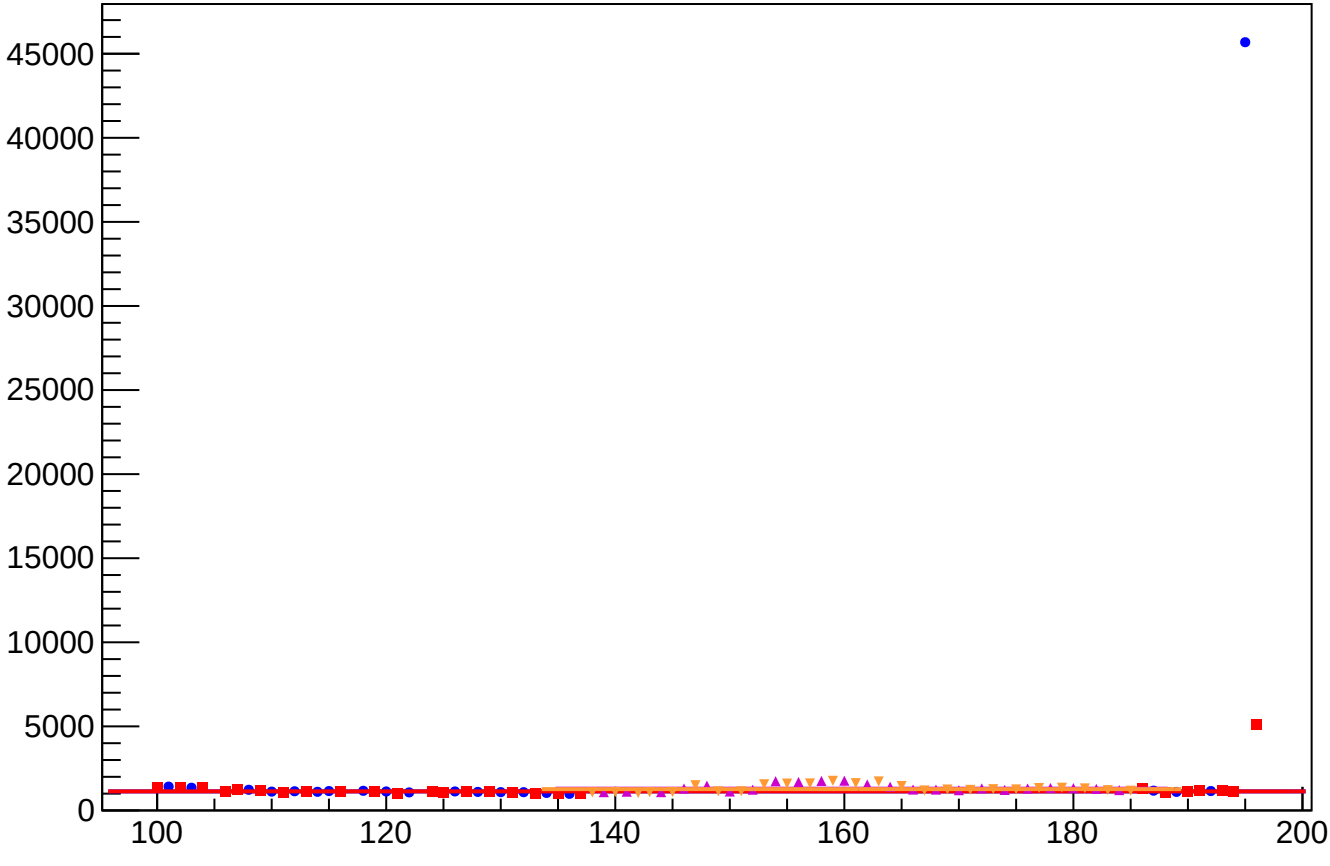
Right: -1.180+/-0.254 $\chi^2$/NDF: 2111.8/45

In: -1.571+/-0.238 $\chi^2$/NDF:621.5/42

Out: 1.678+/-0.222 $\chi^2$/NDF:1502.9/50

All: 0.167+/-0.163 $\chi^2$/NDF: 2223.7/93

# diff_bpm0l09Y_rms vs Slug, Sign Corrected




Right In: 1132.293+/-0.268 $\chi^2$/NDF: 1811230.6/19

Left Out: 1267.405+/-0.207 $\chi^2$/NDF:878431.8/24

Right Out: 1134.987+/-0.242 $\chi^2$/NDF: 674969.7/25

Left In: 1294.076+/-0.217 $\chi^2$/NDF:758193.5/22

Left: 1280.108+/-0.150 $\chi^2$/NDF: 1644552.9/47

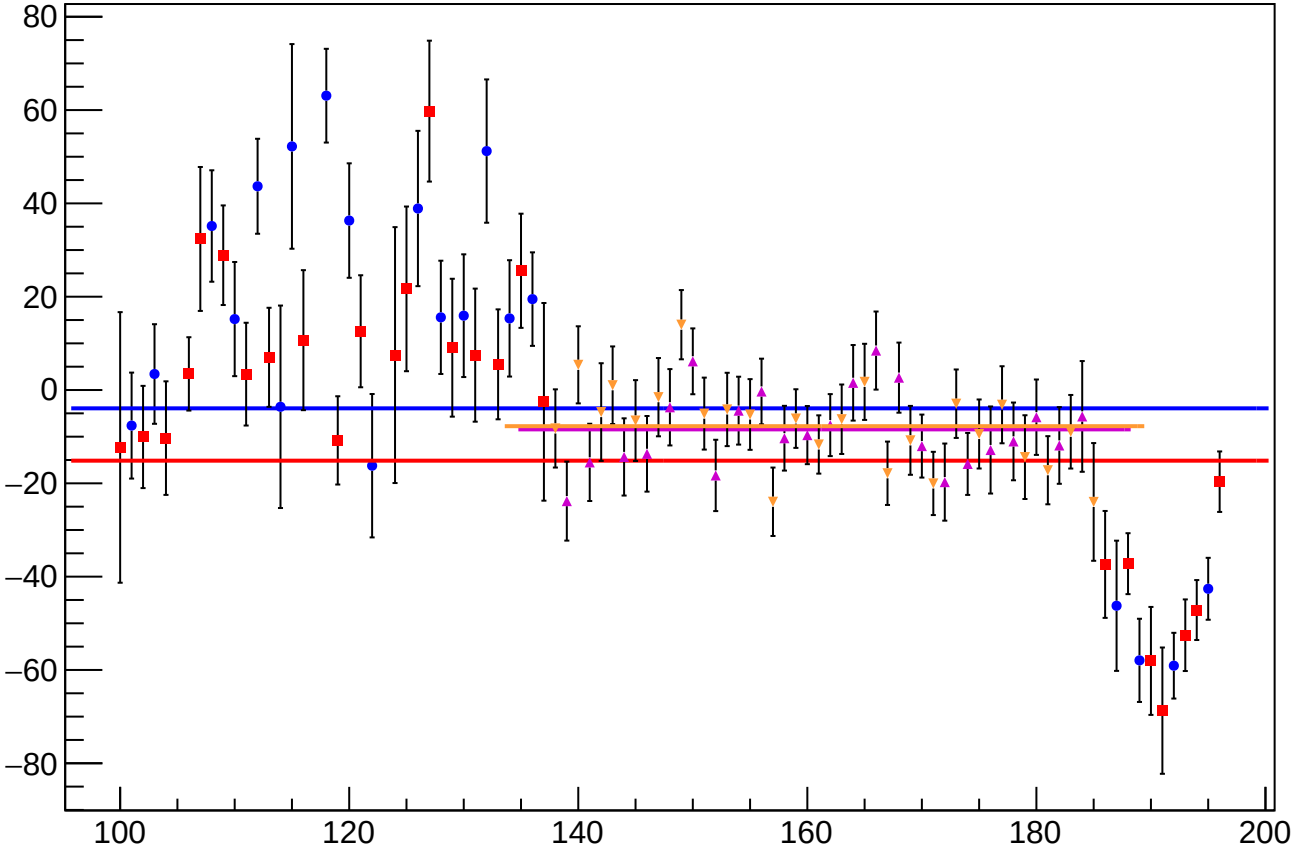
Right: 1133.776+/-0.180 $\chi^2$/NDF: 2486255.8/45

In: 1230.177+/-0.169 $\chi^2$/NDF:2789410.0/42

Out: 1211.648+/-0.157 $\chi^2$/NDF:1726165.3/50

All: 1220.270+/-0.115 $\chi^2$/NDF: 4522032.0/93

# diff_bpm0l10X_mean vs Slug, Sign Corrected




Right In: -3.927+/-2.483 $\chi^2$/NDF: 271.4/19

Left Out: -7.752+/-1.547 $\chi^2$/NDF:30.4/24

Right Out: -15.143+/-2.091 $\chi^2$/NDF: 191.2/25

Left In: -8.438+/-1.605 $\chi^2$/NDF:24.8/22

Left: -8.082+/-1.114 $\chi^2$/NDF: 55.3/47

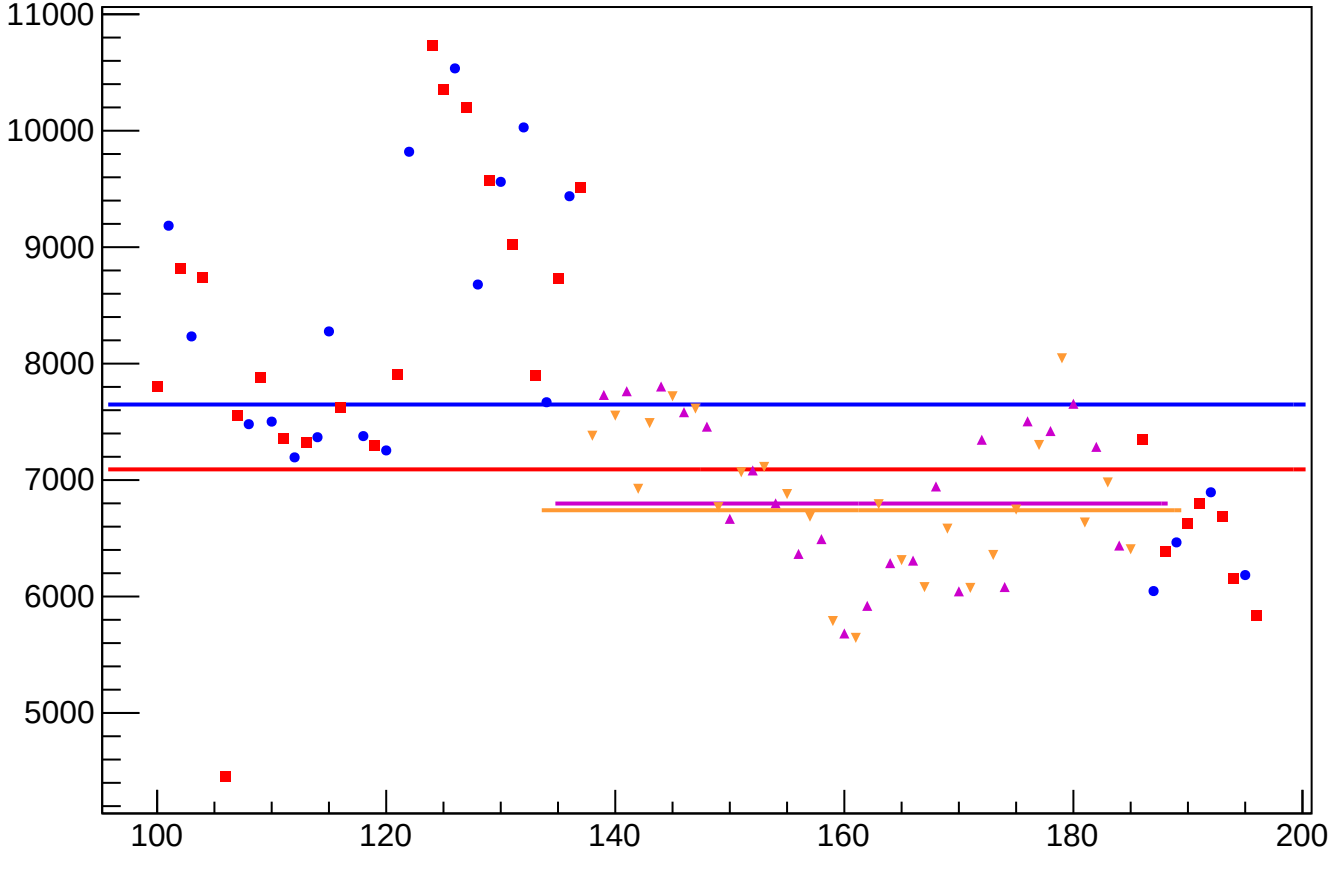
Right: -10.488+/-1.599 $\chi^2$/NDF: 474.6/45

In: -7.109+/-1.348 $\chi^2$/NDF:298.6/42

Out: -10.366+/-1.243 $\chi^2$/NDF:229.7/50

All: -8.868+/-0.914 $\chi^2$/NDF: 531.5/93

# diff_bpm0l10X_rms vs Slug, Sign Corrected




Right In: 7648.869+/-1.755 $\chi^2$/NDF: 503103.0/19

Left Out: 6740.835+/-1.094 $\chi^2$/NDF:316707.6/24

Right Out: 7091.828+/-1.479 $\chi^2$/NDF: 844233.3/25

Left In: 6798.524+/-1.135 $\chi^2$/NDF:353277.6/22

Left: 6768.617+/-0.787 $\chi^2$/NDF: 671325.3/47

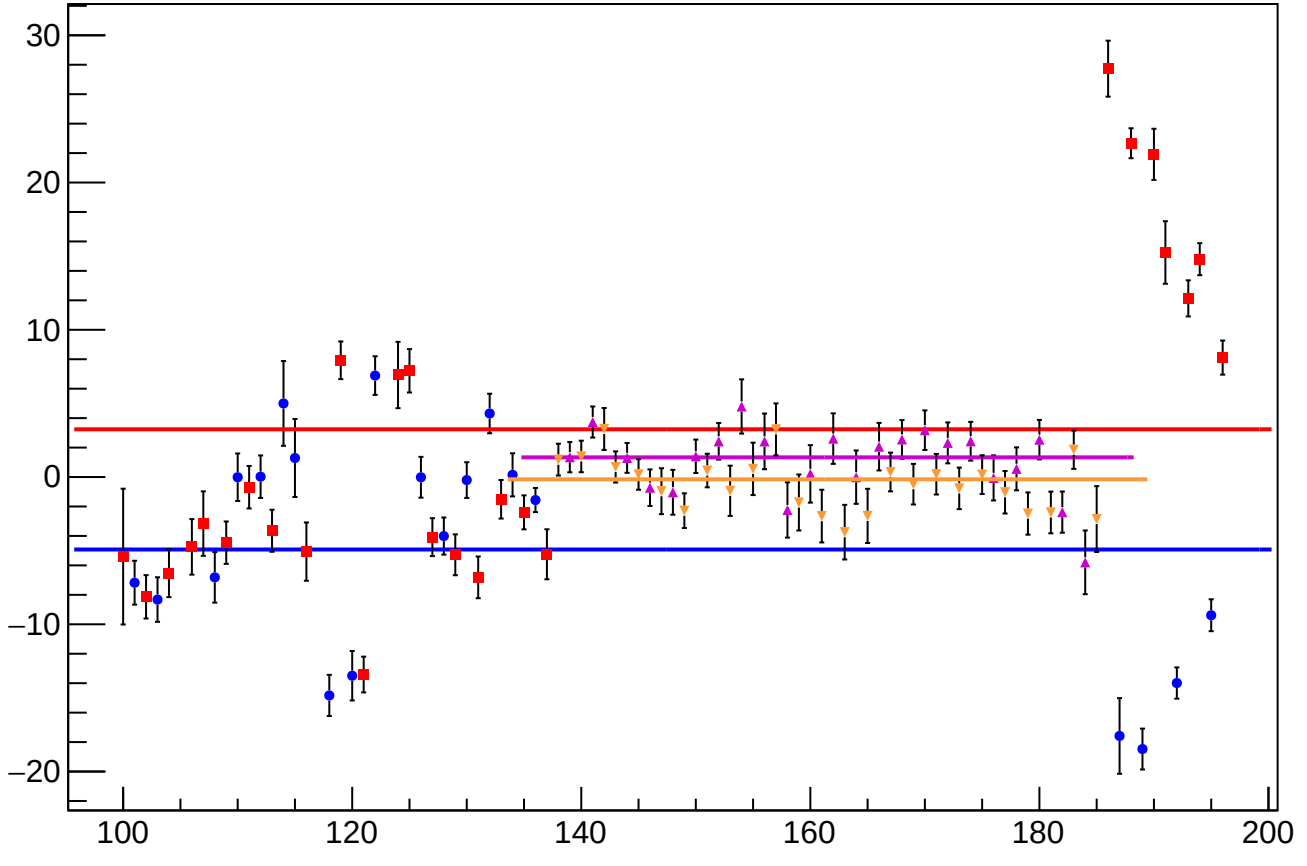
Right: 7323.025+/-1.131 $\chi^2$/NDF: 1406234.7/45

In: 7049.090+/-0.953 $\chi^2$/NDF:1021878.8/42

Out: 6864.937+/-0.879 $\chi^2$/NDF:1197361.5/50

All: 6949.622+/-0.646 $\chi^2$/NDF: 2239411.7/93

# diff_bpm0l10Y_mean vs Slug, Sign Corrected




Right In: -4.921+/-0.308 $\chi^2$/NDF: 518.1/19

Left Out: -0.152+/-0.277 $\chi^2$/NDF:36.1/24

Right Out: 3.243+/-0.284 $\chi^2$/NDF: 1458.2/25

Left In: 1.337+/-0.290 $\chi^2$/NDF:44.0/22

Left: 0.557+/-0.200 $\chi^2$/NDF: 93.9/47

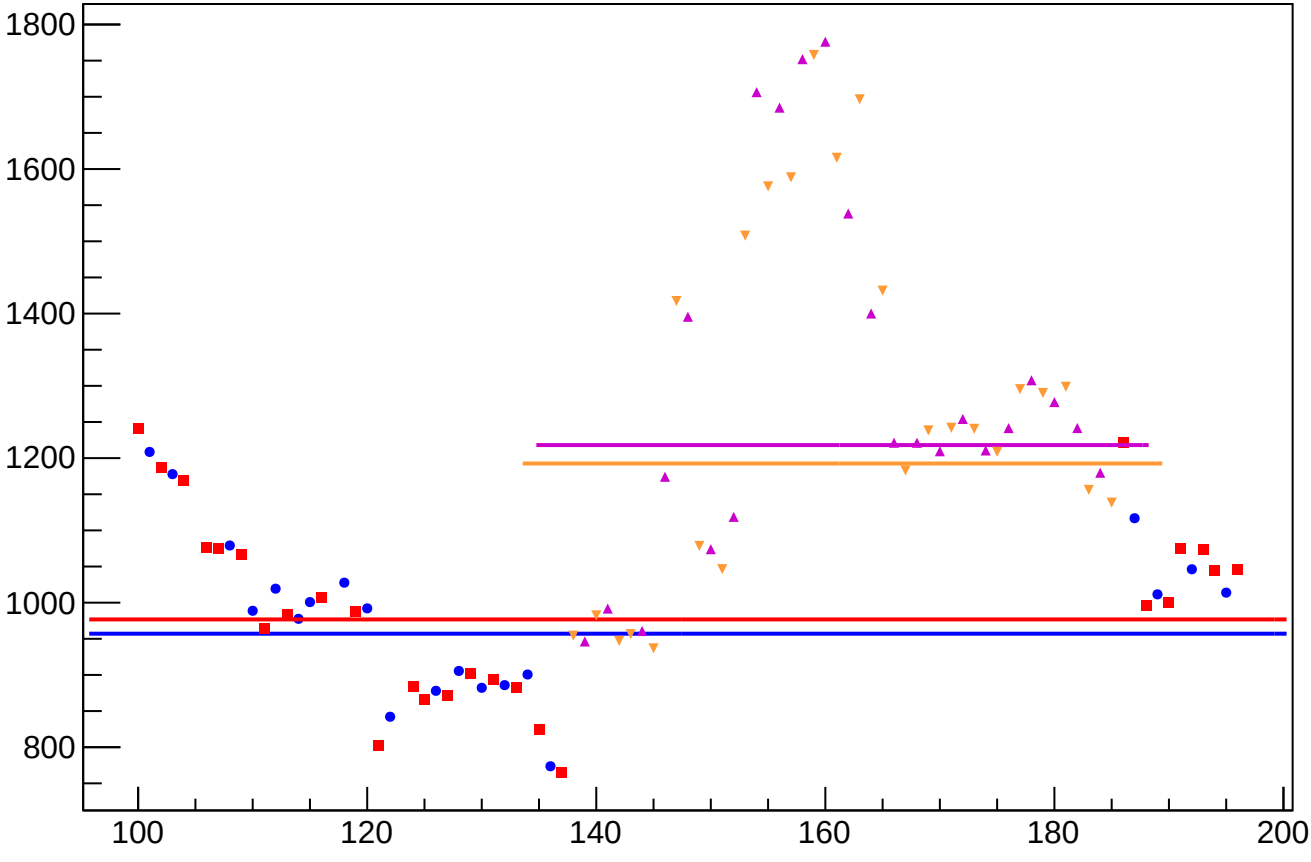
Right: -0.512+/-0.209 $\chi^2$/NDF: 2356.1/45

In: -1.607+/-0.211 $\chi^2$/NDF:781.0/42

Out: 1.500+/-0.198 $\chi^2$/NDF:1567.5/50

All: 0.045+/-0.145 $\chi^2$/NDF: 2463.7/93

# diff_bpm0l10Y_rms vs Slug, Sign Corrected




Right In: 957.074+/-0.218 $\chi^2$/NDF: 292719.7/19

Left Out: 1192.579+/-0.196 $\chi^2$/NDF:1320181.3/24

Right Out: 976.801+/-0.201 $\chi^2$/NDF: 318506.4/25

Left In: 1218.058+/-0.205 $\chi^2$/NDF:1127896.8/22

Left: 1204.714+/-0.142 $\chi^2$/NDF: 2456154.6/47

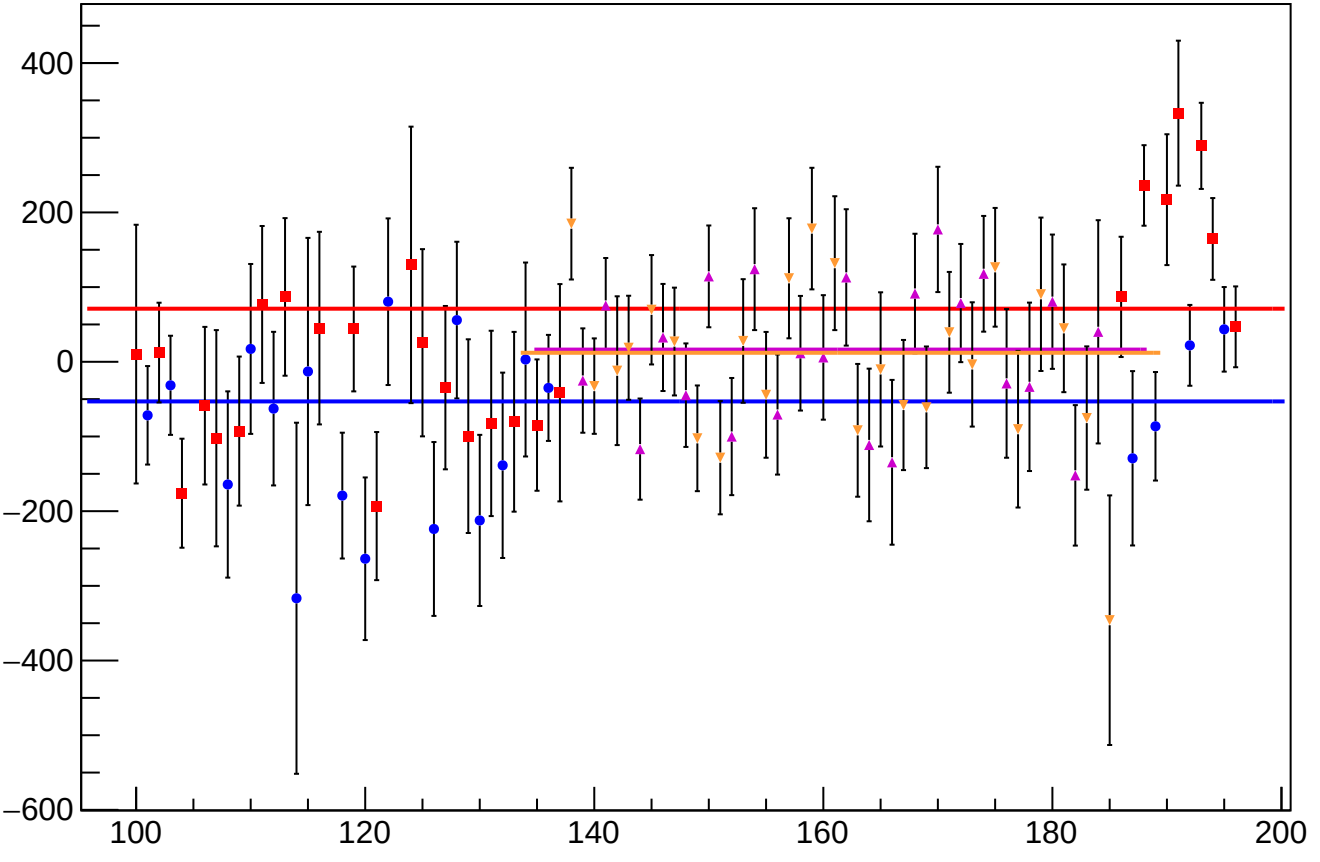
Right: 967.727+/-0.148 $\chi^2$/NDF: 615661.7/45

In: 1095.278+/-0.149 $\chi^2$/NDF:2181833.9/42

Out: 1087.537+/-0.140 $\chi^2$/NDF:2230749.5/50

All: 1091.163+/-0.102 $\chi^2$/NDF: 4414012.4/93

# diff_bpm0r03X_mean vs Slug, Sign Corrected




Right In: -53.050+/-19.890 $\chi^2$/NDF: 21.5/19

Left Out: 12.081+/-16.608 $\chi^2$/NDF:32.8/24

Right Out: 71.100+/-17.085 $\chi^2$/NDF: 71.9/25

Left In: 16.339+/-17.018 $\chi^2$/NDF:28.7/22

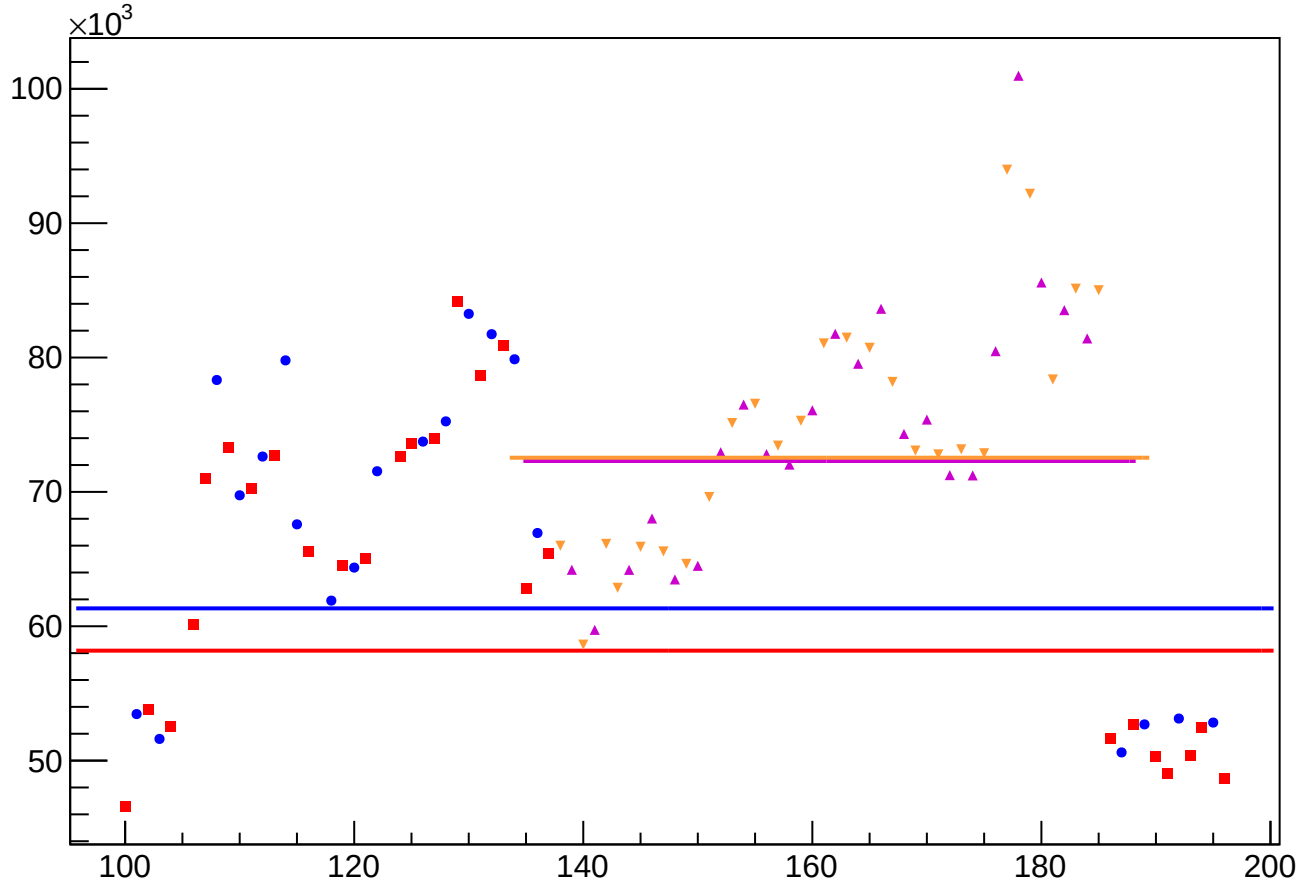
Left: 14.158+/-11.886 $\chi^2$/NDF: 61.5/47

Right: 18.390+/-12.960 $\chi^2$/NDF: 115.8/45

In: -12.989+/-12.931 $\chi^2$/NDF:57.2/42

Out: 40.756+/-11.909 $\chi^2$/NDF:110.8/50

All: 16.091+/-8.760 $\chi^2$/NDF: 177.4/93




Right In: 61331.154+/-14.064 $\chi^2$/NDF: 551398.8/19

Left Out: 72544.327+/-11.744 $\chi^2$/NDF:500066.2/24

Right Out: 58184.125+/-12.081 $\chi^2$/NDF: 672583.5/25

Left In: 72300.590+/-12.033 $\chi^2$/NDF:488780.3/22

Left: 72425.429+/-8.405 $\chi^2$/NDF: 989056.6/47

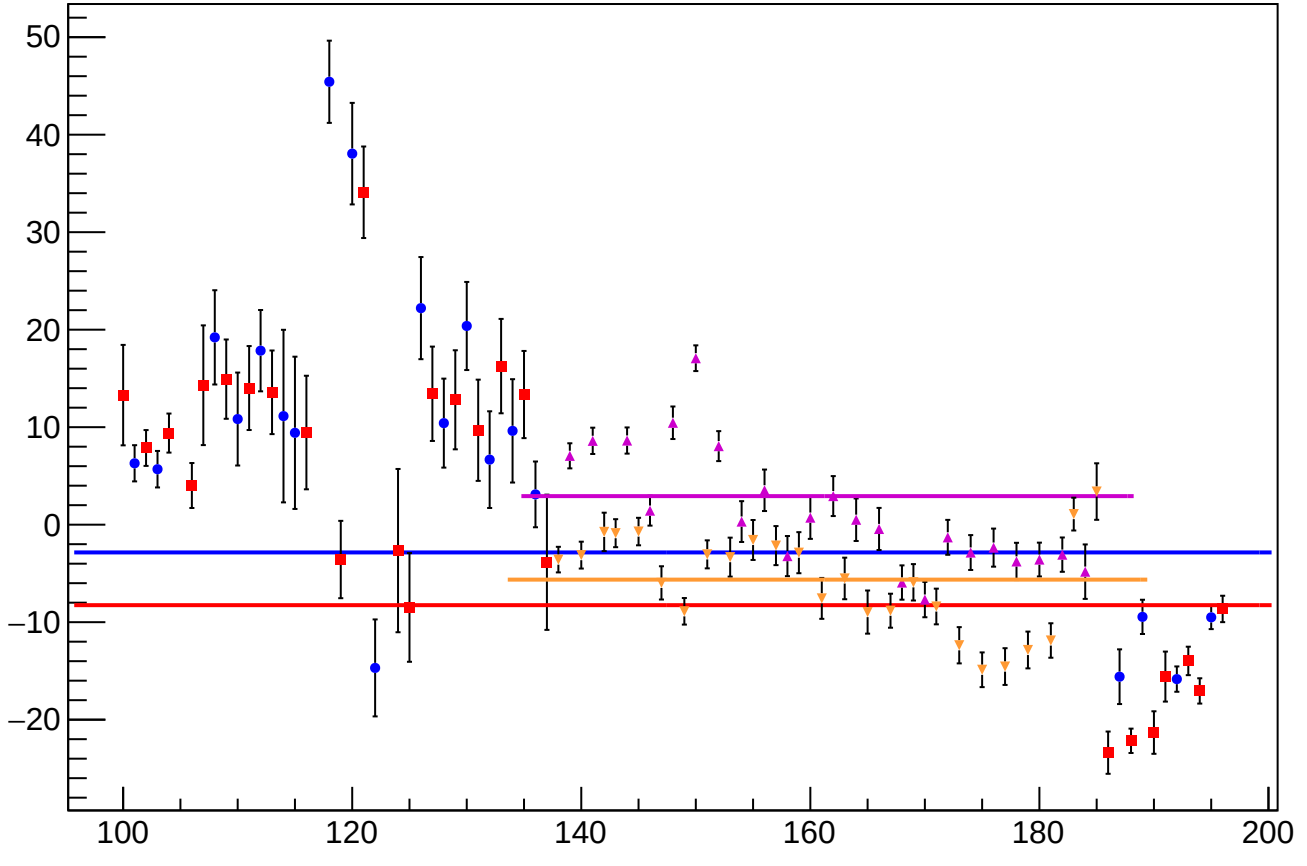
Right: 59520.263+/-9.164 $\chi^2$/NDF: 1252794.3/45

In: 67664.282+/-9.143 $\chi^2$/NDF:1391401.1/42

Out: 65567.350+/-8.421 $\chi^2$/NDF:1899135.5/50

All: 66529.676+/-6.194 $\chi^2$/NDF: 3318995.7/9

# diff_bpm0r03Y_mean vs Slug, Sign Corrected




Right In: -2.846+/-0.587 $\chi^2$/NDF: 537.2/19

Left Out: -5.636+/-0.349 $\chi^2$/NDF:178.2/24

Right Out: -8.255+/-0.487 $\chi^2$/NDF: 768.6/25

Left In: 2.929+/-0.362 $\chi^2$/NDF:337.4/22

Left: -1.513+/-0.251 $\chi^2$/NDF: 805.4/47

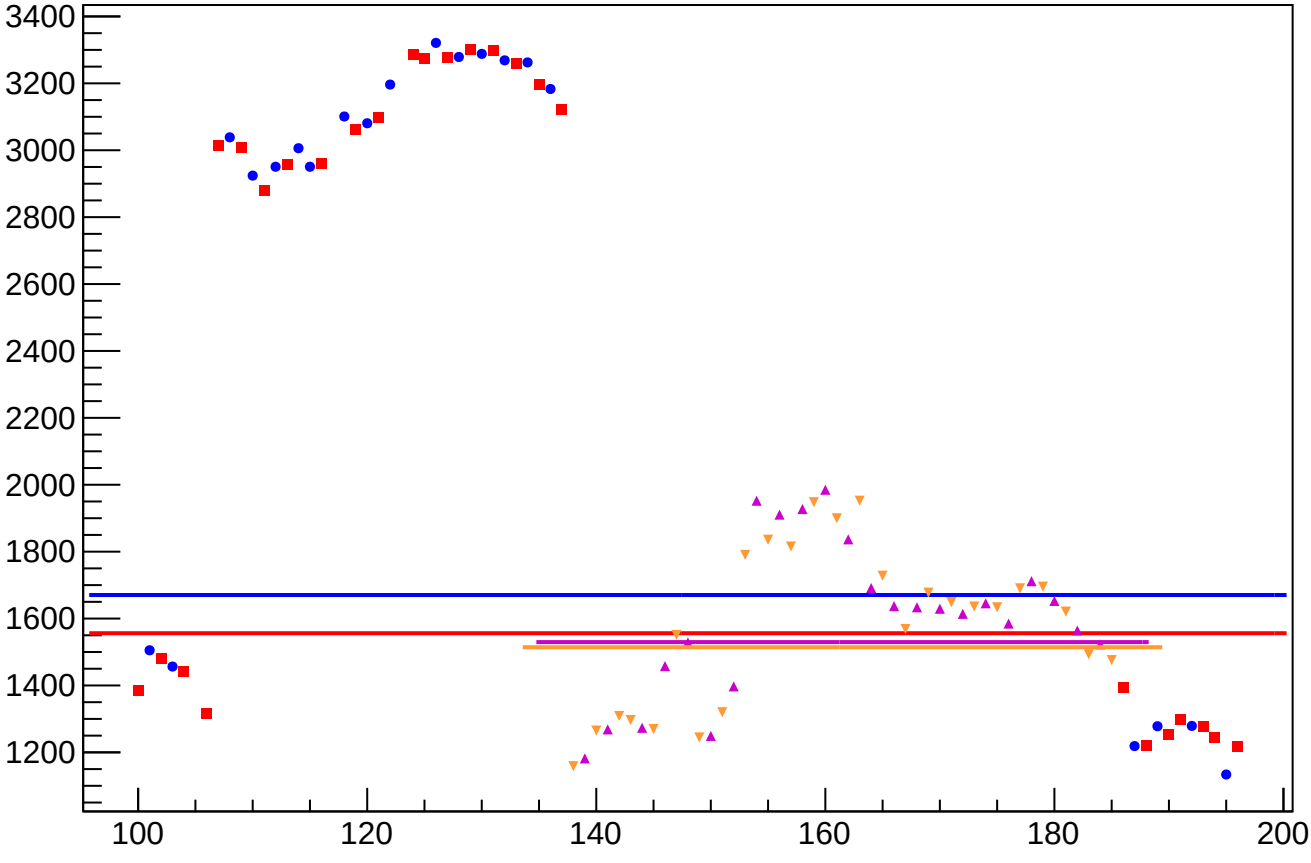
Right: -6.046+/-0.375 $\chi^2$/NDF: 1356.1/45

In: 1.335+/-0.308 $\chi^2$/NDF:944.7/42

Out: -6.524+/-0.284 $\chi^2$/NDF:965.9/50

All: -2.919+/-0.209 $\chi^2$/NDF: 2262.4/93

# diff_bpm0r03Y_rms vs Slug, Sign Corrected




Right In: 1670.439+/-0.415 $\chi^2$/NDF: 3412882.3/19

Left Out: 1514.334+/-0.247 $\chi^2$/NDF:933332.1/24

Right Out: 1556.184+/-0.345 $\chi^2$/NDF: 3559846.5/25

Left In: 1529.635+/-0.256 $\chi^2$/NDF:828481.7/22

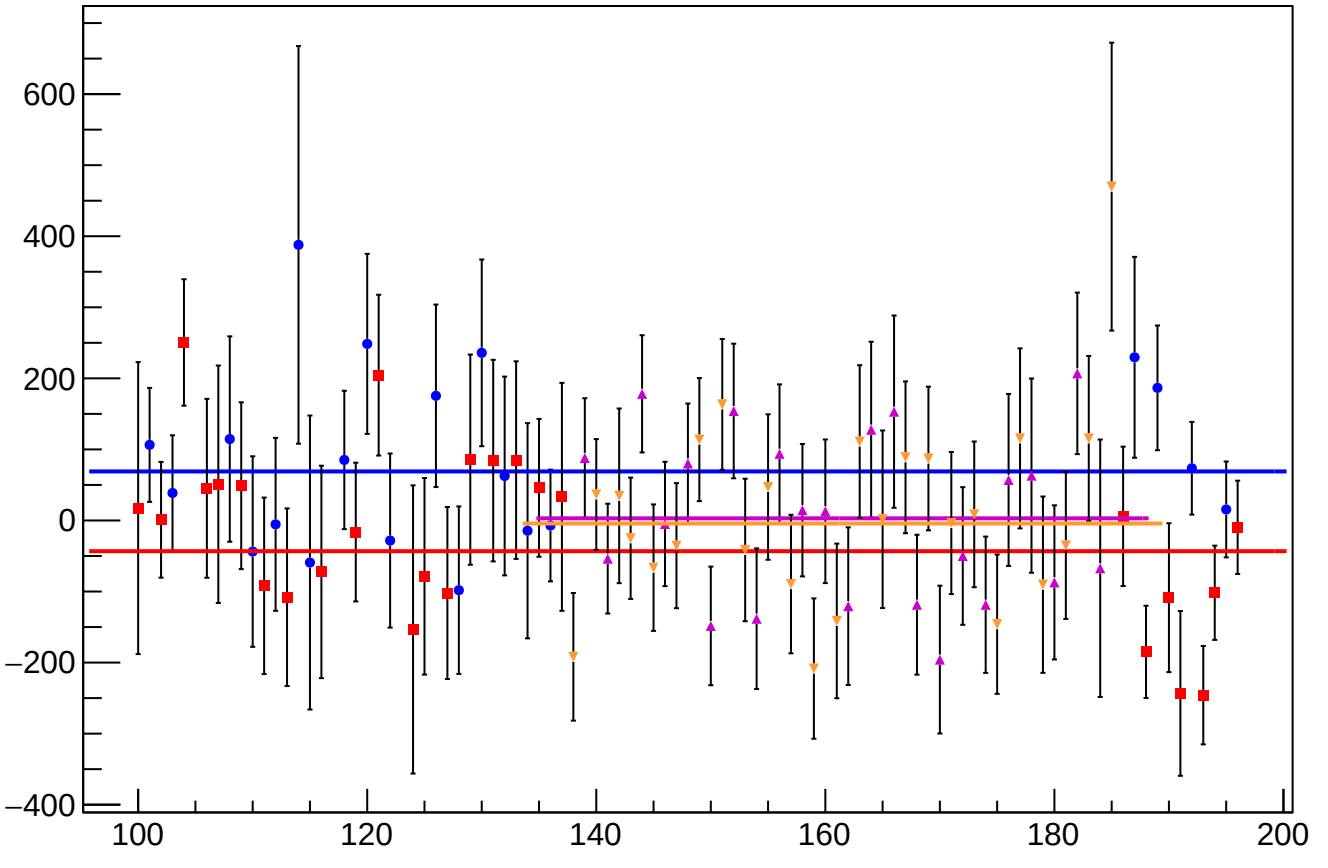
Left: 1521.700+/-0.178 $\chi^2$/NDF: 1763664.0/47

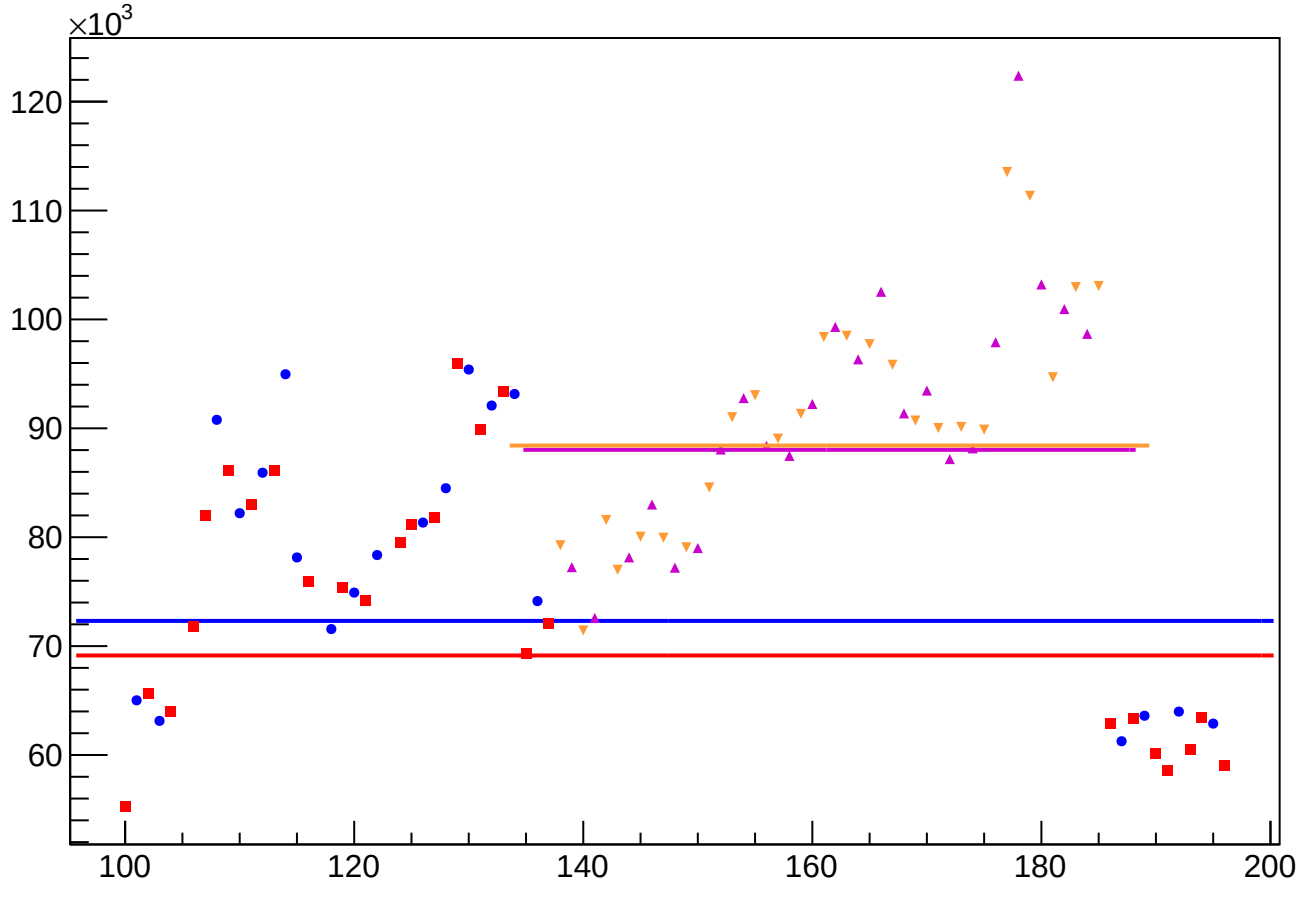
Right: 1602.838+/-0.265 $\chi^2$/NDF: 7017600.7/45

In: 1568.498+/-0.218 $\chi^2$/NDF:4324752.7/42

Out: 1528.519+/-0.201 $\chi^2$/NDF:4502924.5/50

All: 1546.859+/-0.148 $\chi^2$/NDF: 8845886.4/93


diff_bpm0r05X_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
100
120
140
160
180
200
Right In: 68.990+/-23.373 χ²/NDF: 15.2/19
Left Out: -4.274+/-20.240 χ²/NDF:30.4/24
Right Out: -43.234+/-20.241 χ²/NDF: 40.1/25
Left In: 3.017+/-20.720 χ²/NDF:30.7/22
Left: -0.714+/-14.478 χ²/NDF: 61.2/47
Right: 4.861+/-15.301 χ²/NDF: 68.5/45
In: 32.048+/-15.505 χ²/NDF:50.3/42
Out: -23.753+/-14.312 χ²/NDF:72.4/50
All: 1.920+/-10.517 χ²/NDF: 129.8/93




Right In: 72314.367+/-16.527 $\chi^2$/NDF: 406800.4/19

Left Out: 88417.953+/-14.312 $\chi^2$/NDF:481954.0/24

Right Out: 69139.641+/-14.312 $\chi^2$/NDF: 513563.9/25

Left In: 88023.592+/-14.651 $\chi^2$/NDF:484812.2/22

Left: 88225.391+/-10.238 $\chi^2$/NDF: 967137.0/47

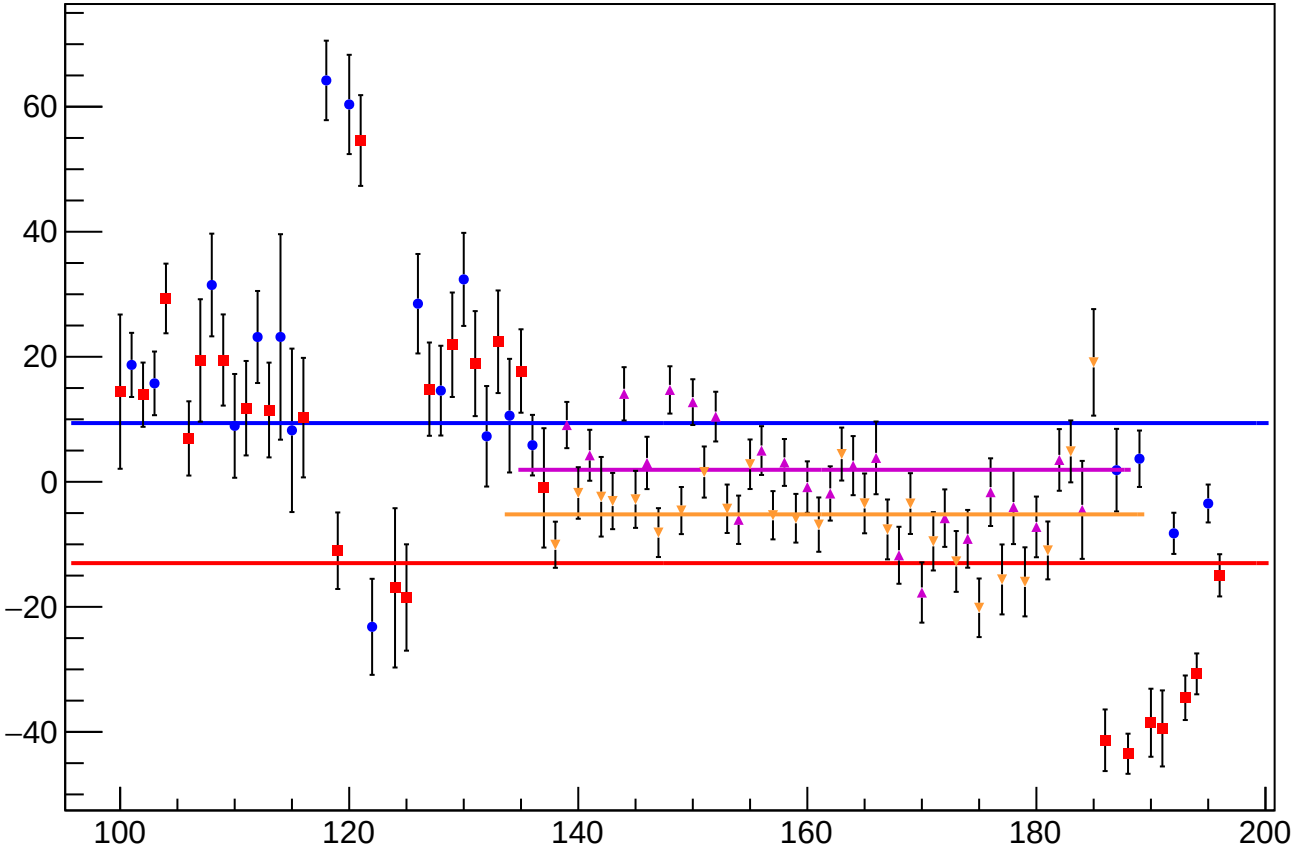
Right: 70500.207+/-10.819 $\chi^2$/NDF: 941450.4/45

In: 81110.728+/-10.963 $\chi^2$/NDF:1397521.5/42

Out: 78779.229+/-10.120 $\chi^2$/NDF:1902707.1/50

All: 79851.888+/-7.436 $\chi^2$/NDF: 3324646.9/9

# diff_bpm0r05Y_mean vs Slug, Sign Corrected




Right In: 9.396+/-1.304 $\chi^2$/NDF: 215.8/19

Left Out: -5.206+/-0.894 $\chi^2$/NDF:51.0/24

Right Out: -13.005+/-1.118 $\chi^2$/NDF: 564.5/25

Left In: 1.924+/-0.916 $\chi^2$/NDF:83.2/22

Left: -1.729+/-0.640 $\chi^2$/NDF: 165.2/47

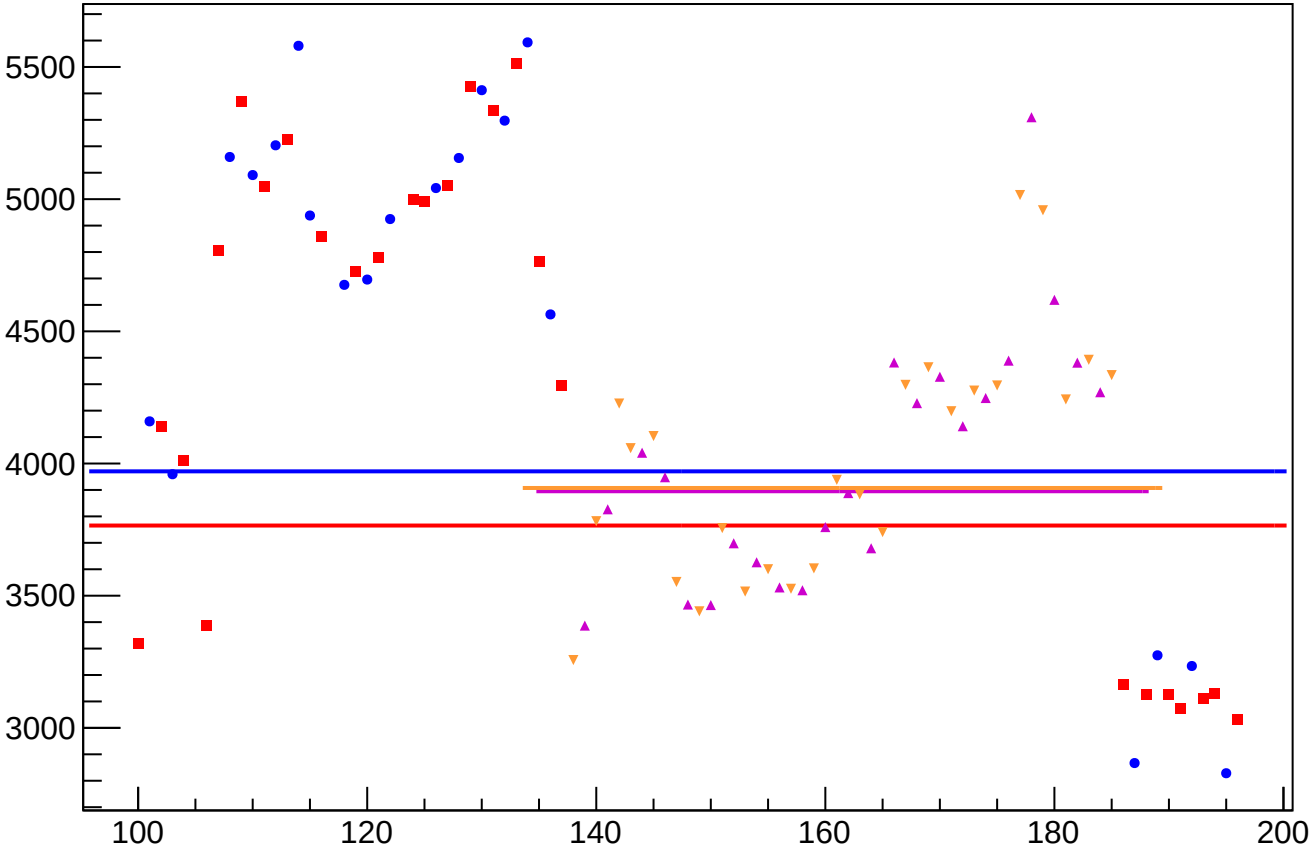
Right: -3.515+/-0.849 $\chi^2$/NDF: 950.4/45

In: 4.393+/-0.750 $\chi^2$/NDF:321.0/42

Out: -8.247+/-0.698 $\chi^2$/NDF:645.2/50

All: -2.376+/-0.511 $\chi^2$/NDF: 1118.5/93

# diff_bpm0r05Y_rms vs Slug, Sign Corrected




Right In: 3970.382+/-0.922 $\chi^2$/NDF: 1040937.6/19

Left Out: 3907.465+/-0.632 $\chi^2$/NDF:441202.5/24

Right Out: 3765.411+/-0.791 $\chi^2$/NDF: 1200936.5/25

Left In: 3895.108+/-0.648 $\chi^2$/NDF:409913.9/22

Left: 3901.439+/-0.452 $\chi^2$/NDF: 851302.8/47

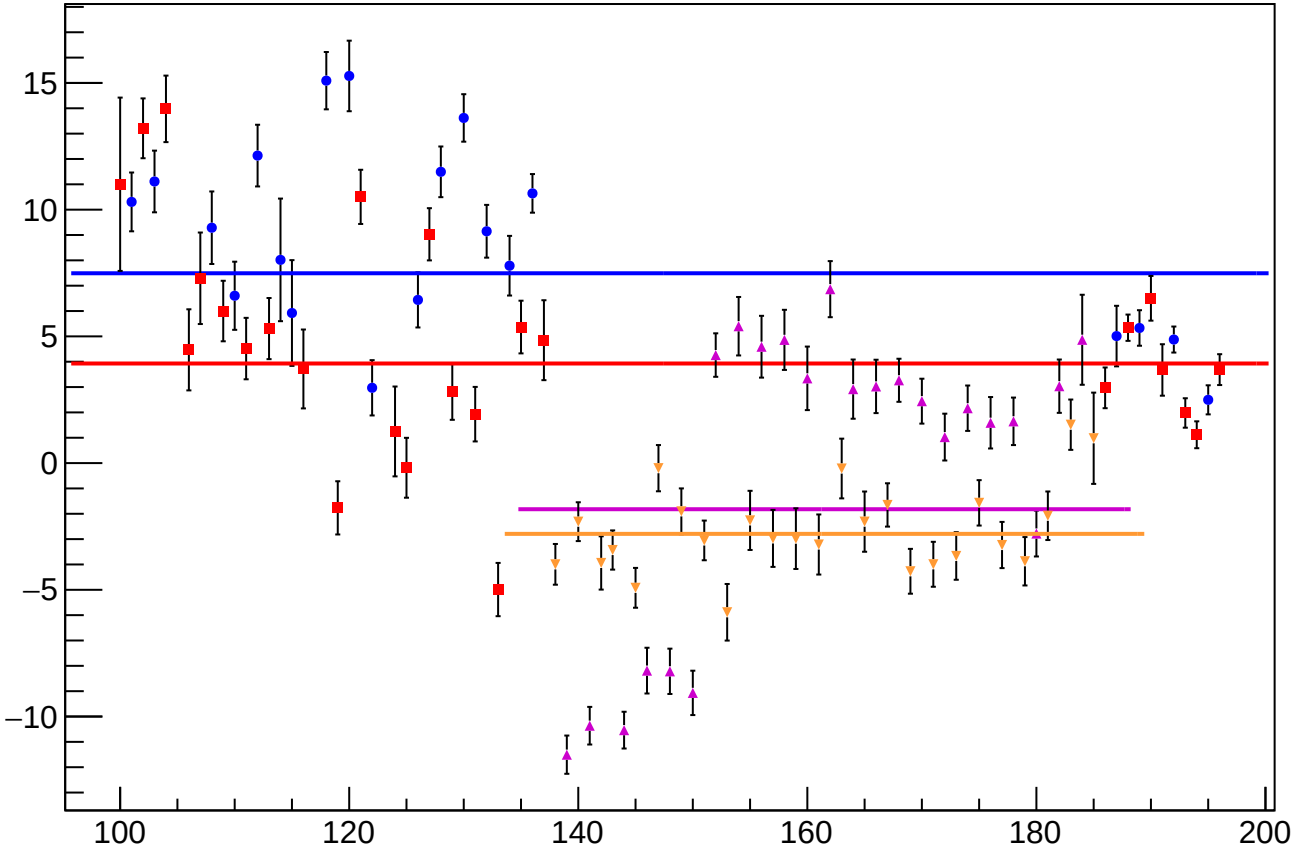
Right: 3852.251+/-0.600 $\chi^2$/NDF: 2270347.7/45

In: 3919.985+/-0.530 $\chi^2$/NDF:1455312.5/42

Out: 3852.080+/-0.494 $\chi^2$/NDF:1661833.8/50

All: 3883.618+/-0.361 $\chi^2$/NDF: 3125933.0/93

# diff_bpm2i01X_mean vs Slug, Sign Corrected




Right In: 7.490+/-0.215 $\chi^2$/NDF: 320.4/19

Left Out: -2.792+/-0.190 $\chi^2$/NDF:68.4/24

Right Out: 3.930+/-0.186 $\chi^2$/NDF: 374.8/25

Left In: -1.820+/-0.198 $\chi^2$/NDF:1026.0/22

Left: -2.327+/-0.137 $\chi^2$/NDF: 1107.0/47

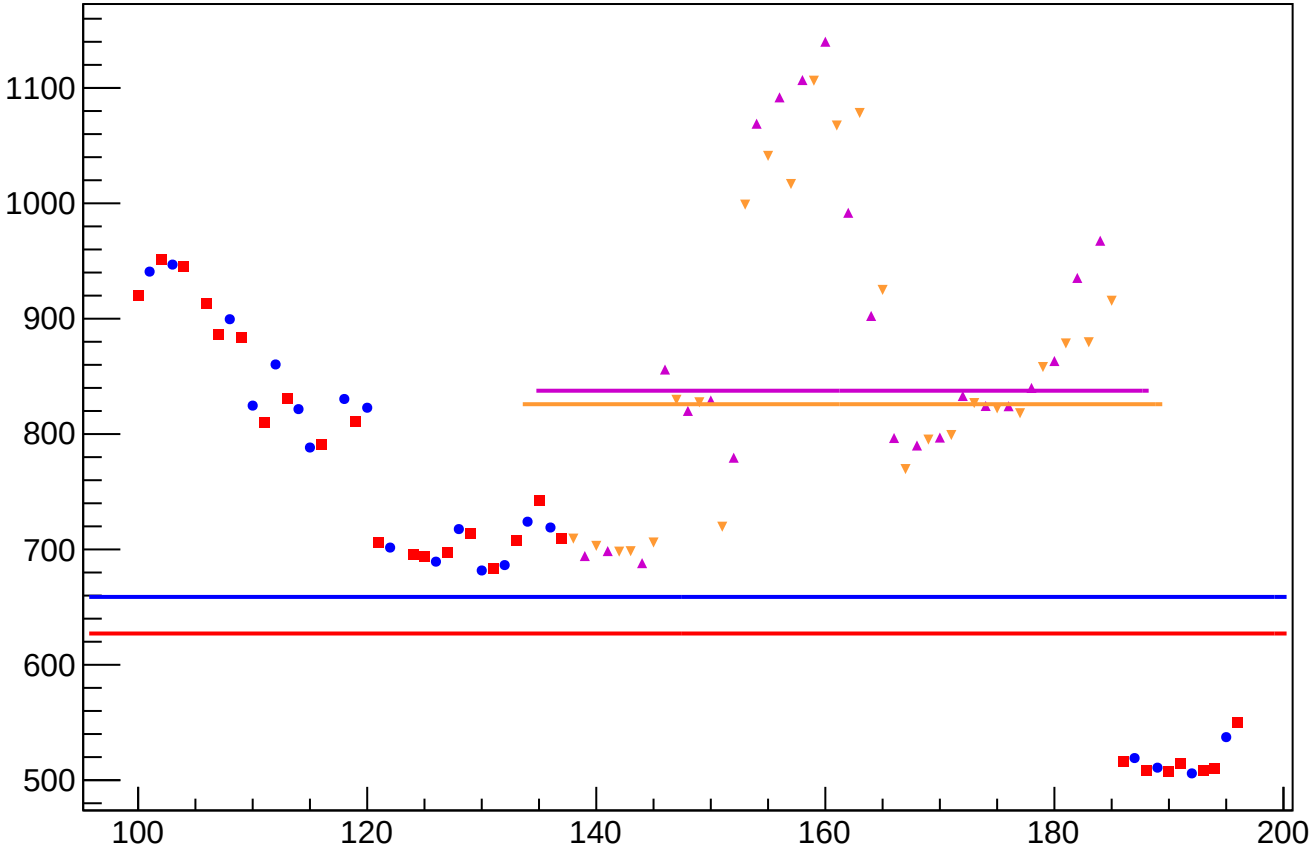
Right: 5.450+/-0.141 $\chi^2$/NDF: 852.1/45

In: 2.452+/-0.146 $\chi^2$/NDF:2359.3/42

Out: 0.646+/-0.133 $\chi^2$/NDF:1083.0/50

All: 1.465+/-0.098 $\chi^2$/NDF: 3526.1/93

# diff_bpm2i01X_rms vs Slug, Sign Corrected




Right In: 658.846+/-0.152 $\chi^2$/NDF: 878977.8/19

Left Out: 825.883+/-0.134 $\chi^2$/NDF:765050.9/24

Right Out: 627.130+/-0.131 $\chi^2$/NDF: 1174152.8/25

Left In: 837.569+/-0.140 $\chi^2$/NDF:714157.0/22

Left: 831.482+/-0.097 $\chi^2$/NDF: 1482830.3/47

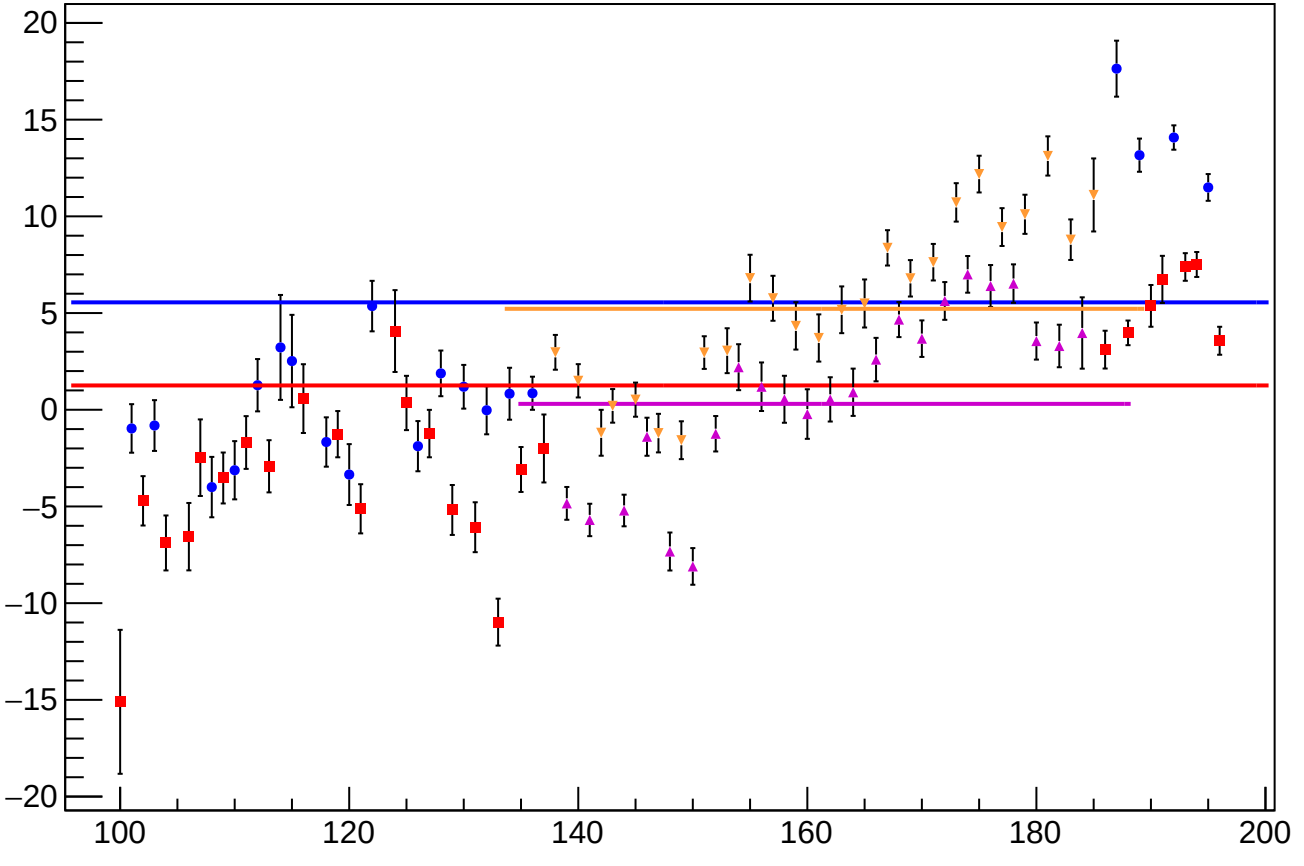
Right: 640.669+/-0.099 $\chi^2$/NDF: 2078024.7/45

In: 755.564+/-0.103 $\chi^2$/NDF:2339562.9/42

Out: 724.214+/-0.094 $\chi^2$/NDF:3057867.7/50

All: 738.436+/-0.069 $\chi^2$/NDF: 5447961.7/93

# diff_bpm2i01Y_mean vs Slug, Sign Corrected




Right In: 5.553+/-0.253 $\chi^2$/NDF: 723.0/19

Left Out: 5.219+/-0.204 $\chi^2$/NDF:449.9/24

Right Out: 1.257+/-0.220 $\chi^2$/NDF: 572.0/25

Left In: 0.304+/-0.213 $\chi^2$/NDF:495.2/22

Left: 2.859+/-0.147 $\chi^2$/NDF: 1222.8/47

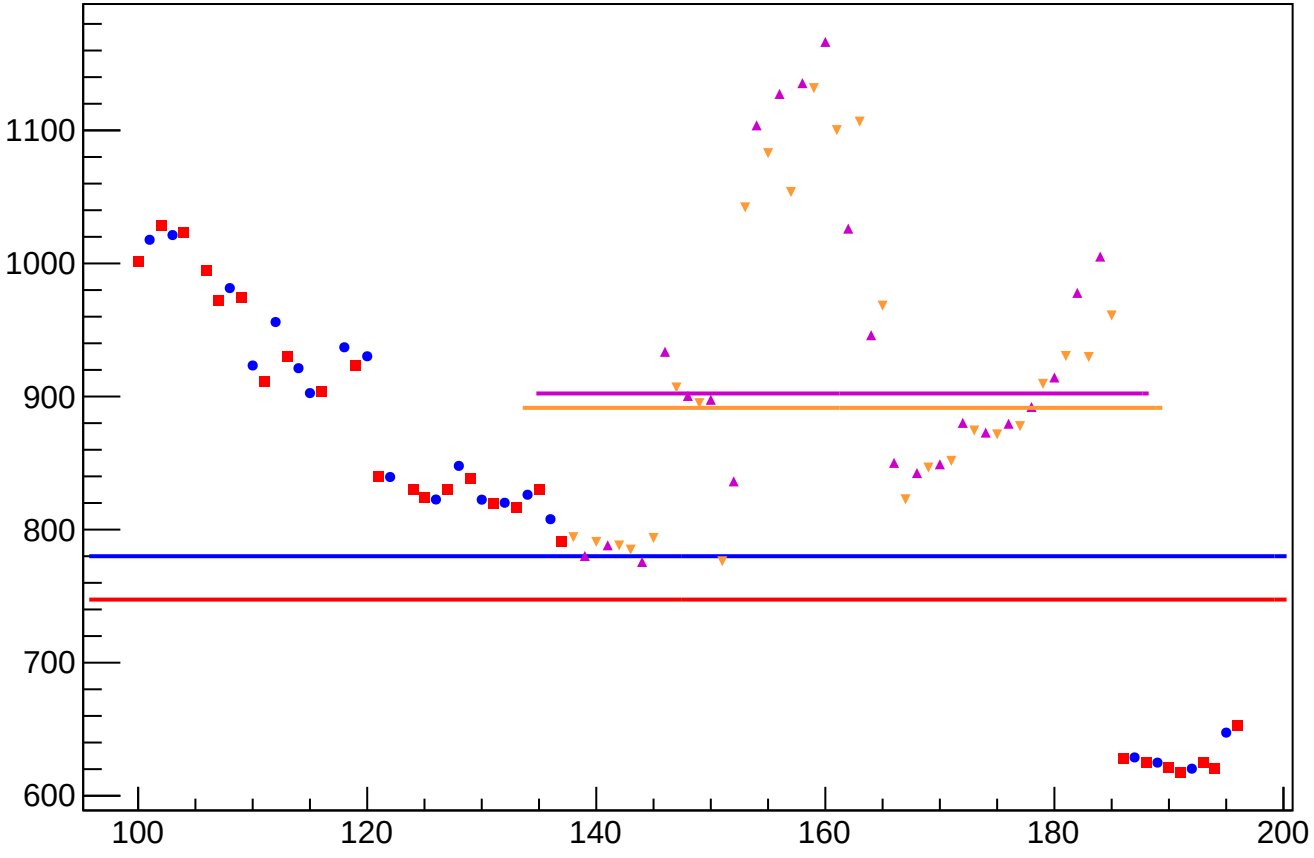
Right: 3.104+/-0.166 $\chi^2$/NDF: 1459.4/45

In: 2.478+/-0.163 $\chi^2$/NDF:1470.5/42

Out: 3.381+/-0.150 $\chi^2$/NDF:1196.3/50

All: 2.967+/-0.110 $\chi^2$/NDF: 2683.5/93

# diff_bpm2i01Y_rms vs Slug, Sign Corrected




Right In: 780.007+/-0.179 $\chi^2$/NDF: 595401.9/19

Left Out: 891.492+/-0.145 $\chi^2$/NDF:517791.6/24

Right Out: 747.409+/-0.155 $\chi^2$/NDF: 819175.3/25

Left In: 902.292+/-0.150 $\chi^2$/NDF:484924.8/22

Left: 896.677+/-0.104 $\chi^2$/NDF: 1005398.0/47

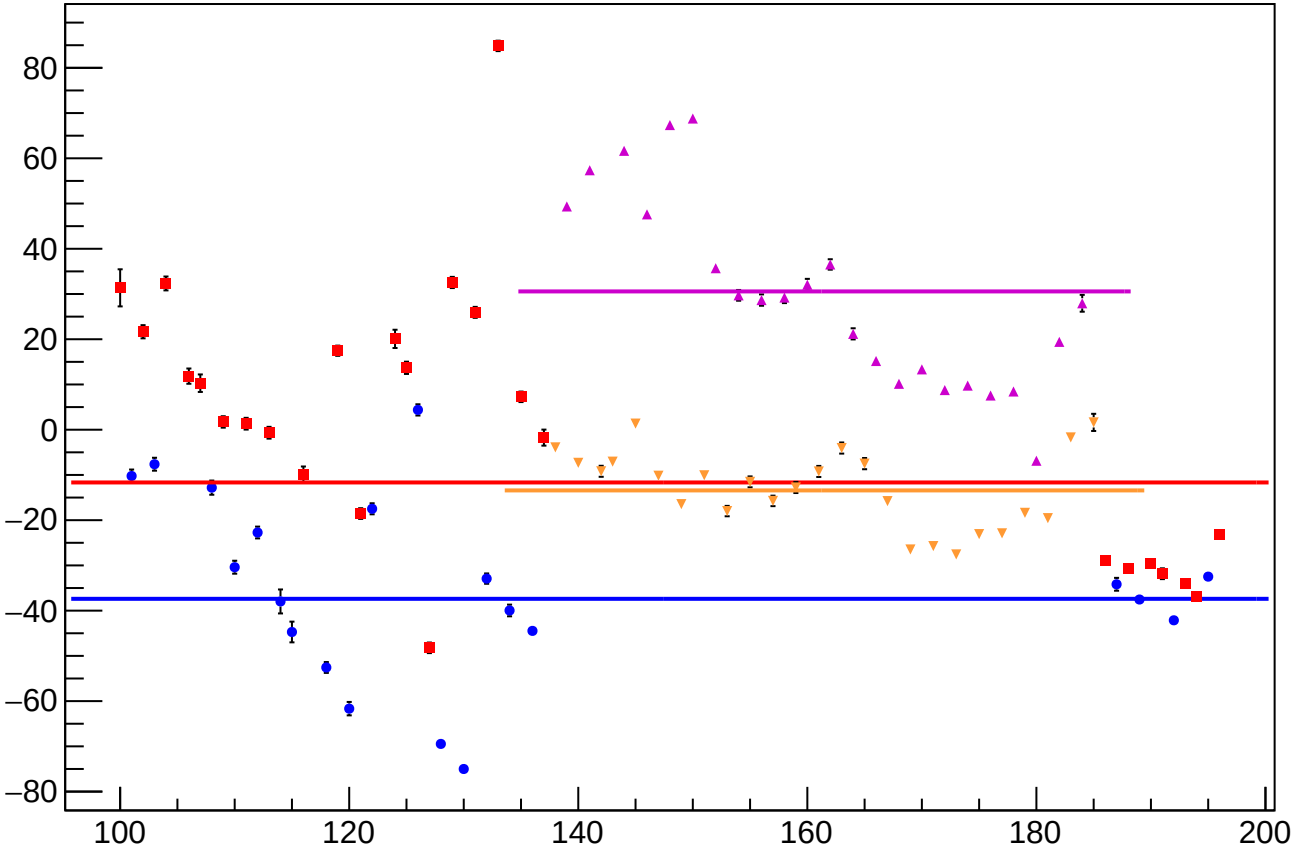
Right: 761.428+/-0.117 $\chi^2$/NDF: 1433517.1/45

In: 851.639+/-0.115 $\chi^2$/NDF:1354258.2/42

Out: 824.644+/-0.106 $\chi^2$/NDF:1798175.2/50

All: 837.009+/-0.078 $\chi^2$/NDF: 3182251.4/93

# diff_bpm2i02X_mean vs Slug, Sign Corrected




Right In: -37.386+/-0.247 $\chi^2$/NDF: 5302.2/19

Left Out: -13.420+/-0.206 $\chi^2$/NDF:1663.3/24

Right Out: -11.661+/-0.214 $\chi^2$/NDF: 18594.3/25

Left In: 30.571+/-0.215 $\chi^2$/NDF:10386.5/22

Left: 7.613+/-0.149 $\chi^2$/NDF: 33863.7/47

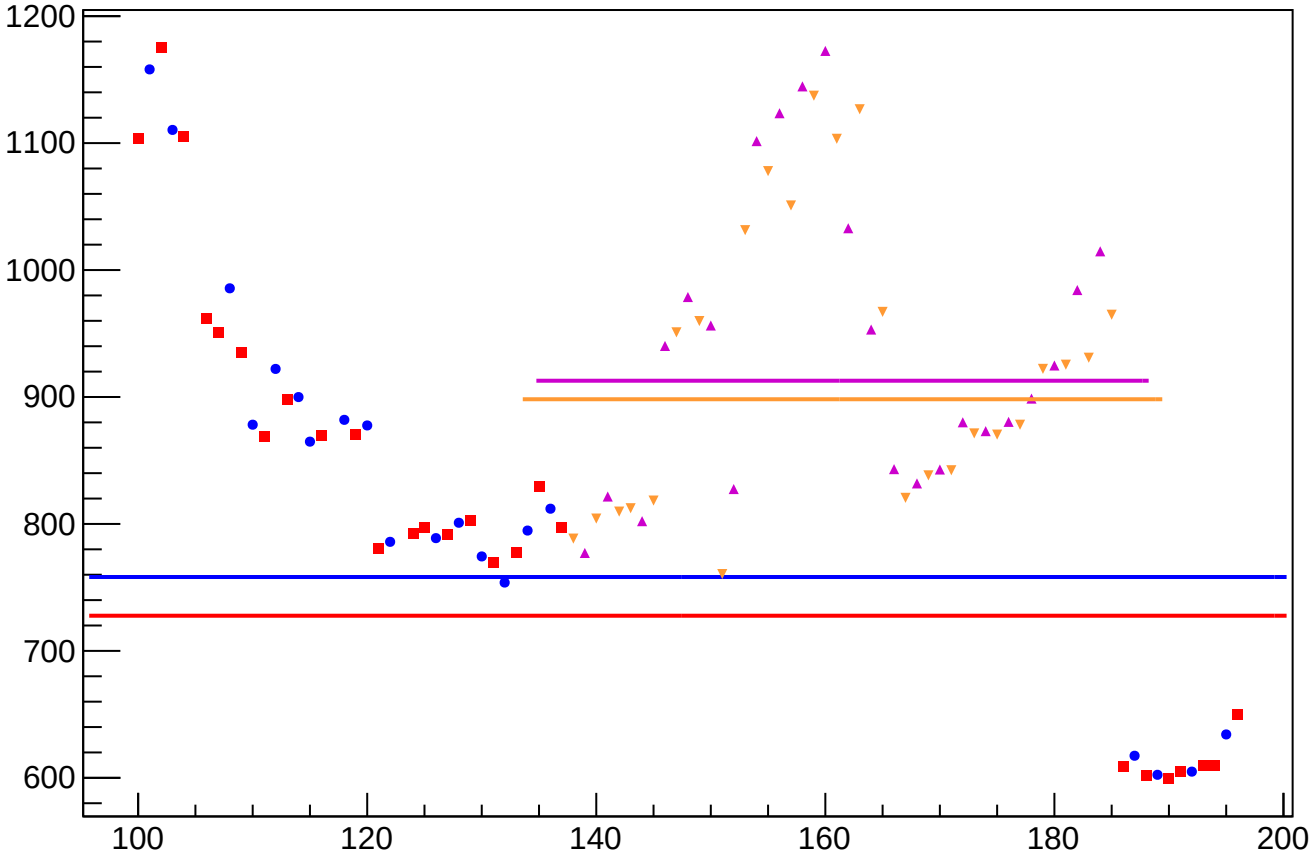
Right: -22.733+/-0.162 $\chi^2$/NDF: 30098.4/45

In: 1.187+/-0.162 $\chi^2$/NDF:58818.0/42

Out: -12.576+/-0.148 $\chi^2$/NDF:20292.7/50

All: -6.297+/-0.109 $\chi^2$/NDF: 83029.7/93

# diff_bpm2i02X_rms vs Slug, Sign Corrected




Right In: 758.201+/-0.174 $\chi^2$/NDF: 708021.8/19

Left Out: 898.227+/-0.146 $\chi^2$/NDF:518370.6/24

Right Out: 727.704+/-0.152 $\chi^2$/NDF: 915862.3/25

Left In: 912.817+/-0.152 $\chi^2$/NDF:480021.0/22

Left: 905.203+/-0.105 $\chi^2$/NDF: 1003190.0/47

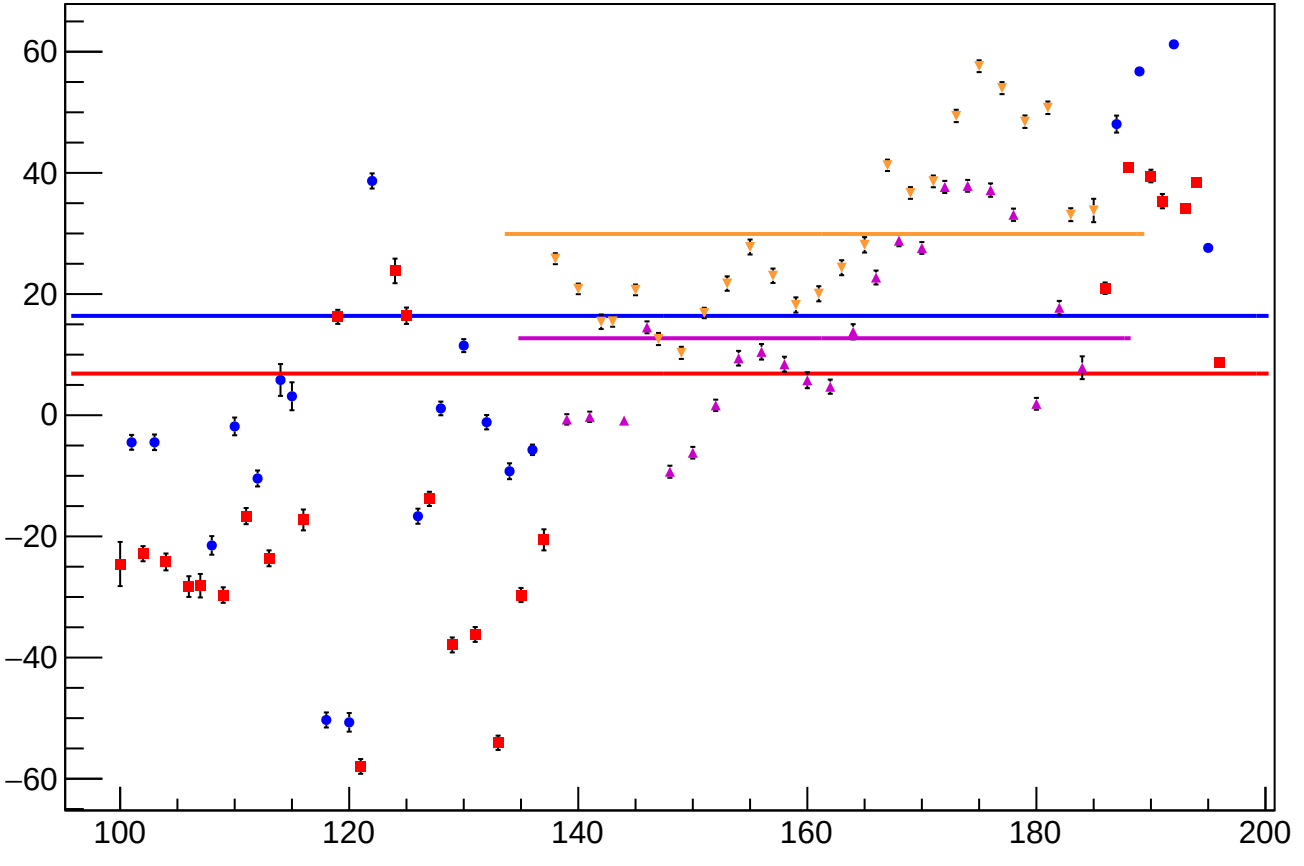
Right: 740.829+/-0.114 $\chi^2$/NDF: 1641317.5/45

In: 845.961+/-0.115 $\chi^2$/NDF:1634563.7/42

Out: 816.350+/-0.105 $\chi^2$/NDF:2092558.7/50

All: 829.860+/-0.077 $\chi^2$/NDF: 3763407.3/93

# diff_bpm2i02Y_mean vs Slug, Sign Corrected




Right In: 16.398+/-0.245 $\chi^2$/NDF: 17674.4/19

Left Out: 29.922+/-0.209 $\chi^2$/NDF:4580.4/24

Right Out: 6.877+/-0.213 $\chi^2$/NDF: 22504.2/25

Left In: 12.708+/-0.217 $\chi^2$/NDF:4791.2/22

Left: 21.661+/-0.150 $\chi^2$/NDF: 12640.8/47

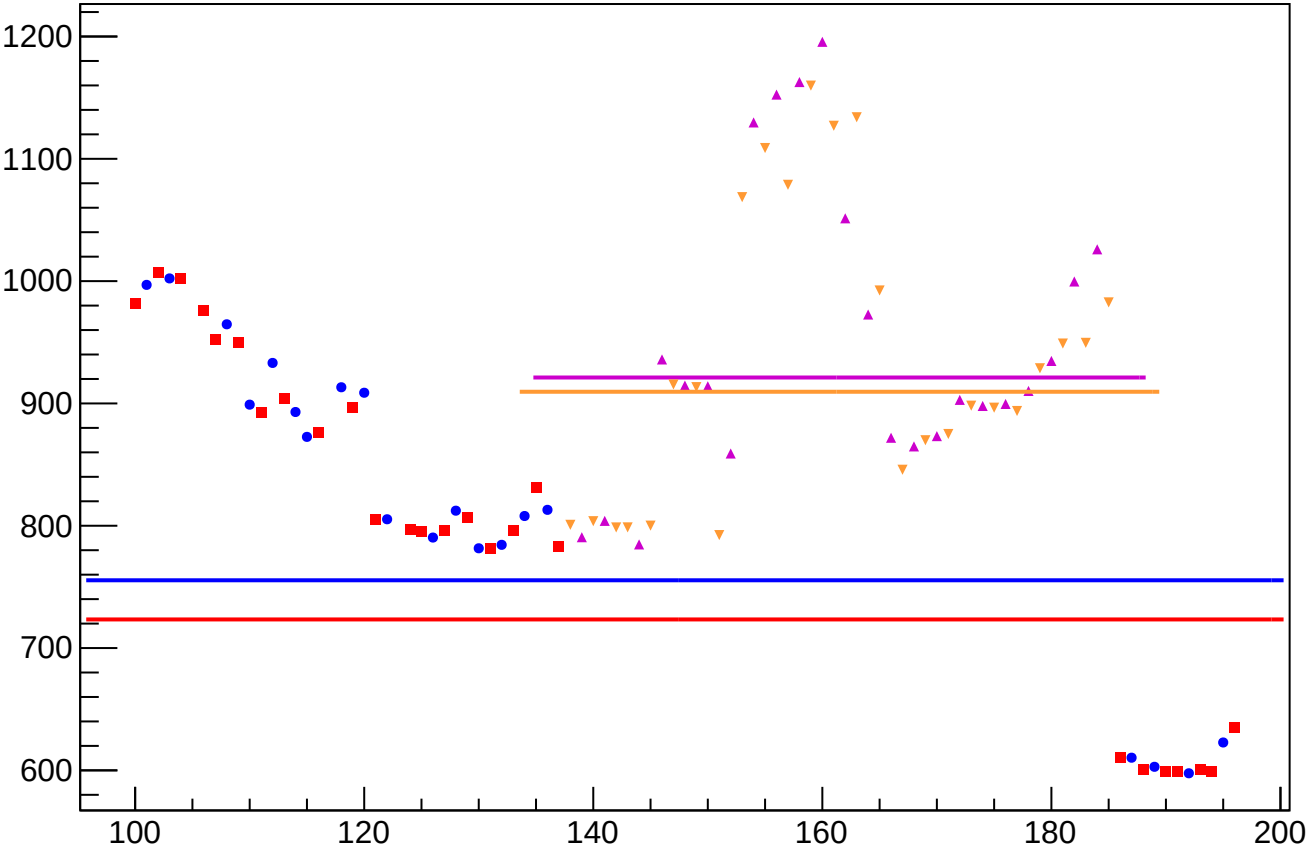
Right: 10.967+/-0.161 $\chi^2$/NDF: 41039.0/45

In: 14.330+/-0.163 $\chi^2$/NDF:22592.6/42

Out: 18.629+/-0.149 $\chi^2$/NDF:33067.9/50

All: 16.667+/-0.110 $\chi^2$/NDF: 56040.6/93

# diff_bpm2i02Y_rms vs Slug, Sign Corrected




Right In: 755.407+/-0.173 $\chi^2$/NDF: 634583.6/19

Left Out: 909.552+/-0.147 $\chi^2$/NDF:541710.0/24

Right Out: 723.392+/-0.150 $\chi^2$/NDF: 857811.0/25

Left In: 921.198+/-0.154 $\chi^2$/NDF:497337.0/22

Left: 915.140+/-0.106 $\chi^2$/NDF: 1042039.9/47

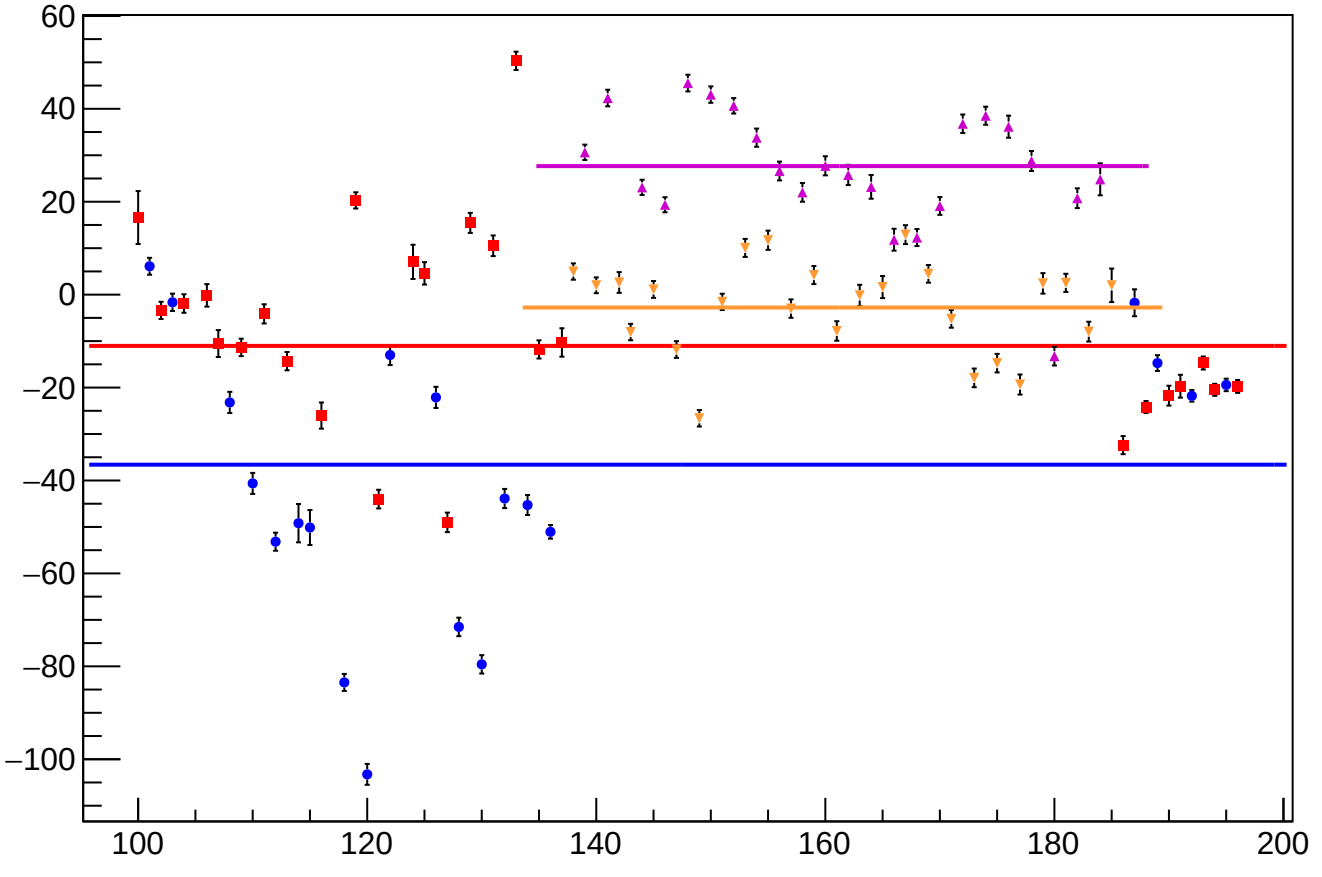
Right: 737.146+/-0.114 $\chi^2$/NDF: 1511852.0/45

In: 848.311+/-0.115 $\chi^2$/NDF:1644562.1/42

Out: 818.324+/-0.105 $\chi^2$/NDF:2180417.1/50

All: 832.010+/-0.078 $\chi^2$/NDF: 3861986.1/93

# diff_bpm0i02X_mean vs Slug, Sign Corrected




Right In: -36.595+/-0.432 $\chi^2$/NDF: 4247.8/19

Left Out: -2.767+/-0.397 $\chi^2$/NDF:616.1/24

Right Out: -11.030+/-0.385 $\chi^2$/NDF: 2687.5/25

Left In: 27.663+/-0.409 $\chi^2$/NDF:989.9/22

Left: 12.021+/-0.285 $\chi^2$/NDF: 4455.3/47

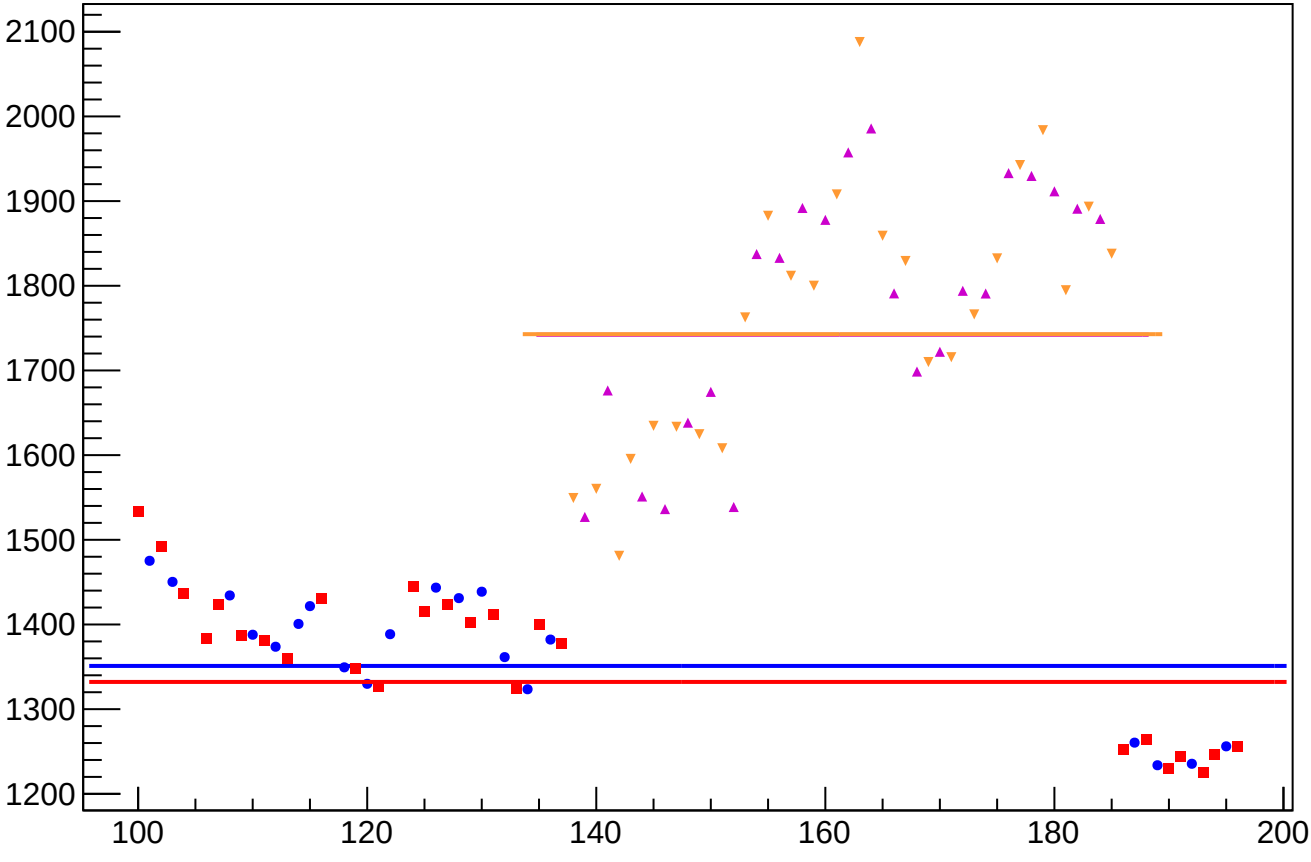
Right: -22.361+/-0.288 $\chi^2$/NDF: 8885.6/45

In: -2.693+/-0.297 $\chi^2$/NDF:16913.8/42

Out: -7.026+/-0.277 $\chi^2$/NDF:3526.4/50

All: -5.012+/-0.202 $\chi^2$/NDF: 20554.2/93

# diff_bpm0i02X_rms vs Slug, Sign Corrected




Right In: 1351.060+/-0.305 $\chi^2$/NDF: 70535.6/19

Left Out: 1742.842+/-0.281 $\chi^2$/NDF:263118.4/24

Right Out: 1332.159+/-0.273 $\chi^2$/NDF: 89923.4/25

Left In: 1742.153+/-0.289 $\chi^2$/NDF:261606.6/22

Left: 1742.507+/-0.201 $\chi^2$/NDF: 524727.9/47

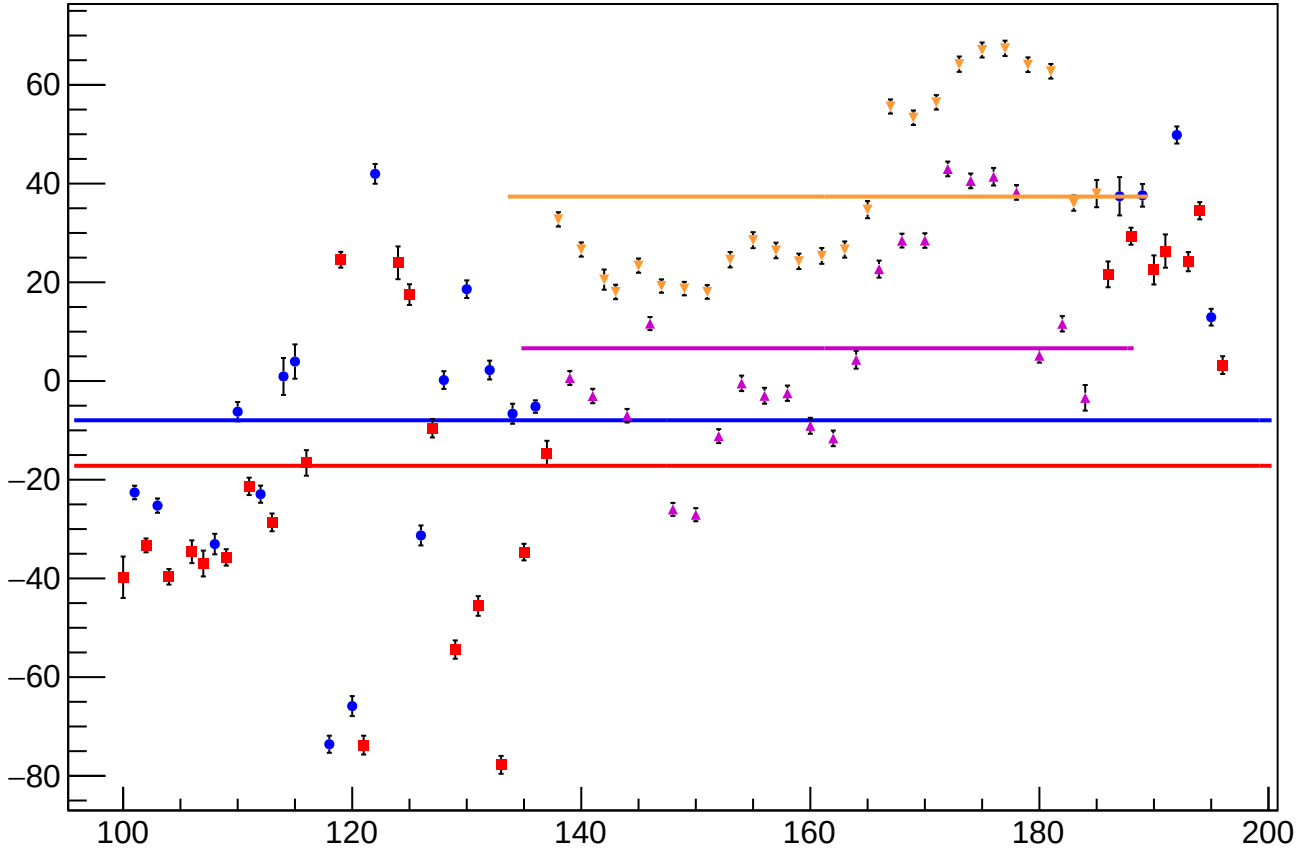
Right: 1340.537+/-0.203 $\chi^2$/NDF: 162591.1/45

In: 1557.401+/-0.210 $\chi^2$/NDF:1197178.4/42

Out: 1531.198+/-0.196 $\chi^2$/NDF:1453732.6/50

All: 1543.377+/-0.143 $\chi^2$/NDF: 2659249.9/93

# diff_bpm0i02Y_mean vs Slug, Sign Corrected




Right In: -7.958+/-0.417 $\chi^2$/NDF: 5578.8/19

Left Out: 37.369+/-0.308 $\chi^2$/NDF:3395.8/24

Right Out: -17.175+/-0.388 $\chi^2$/NDF: 7241.8/25

Left In: 6.631+/-0.316 $\chi^2$/NDF:4410.3/22

Left: 22.404+/-0.221 $\chi^2$/NDF: 12659.0/47

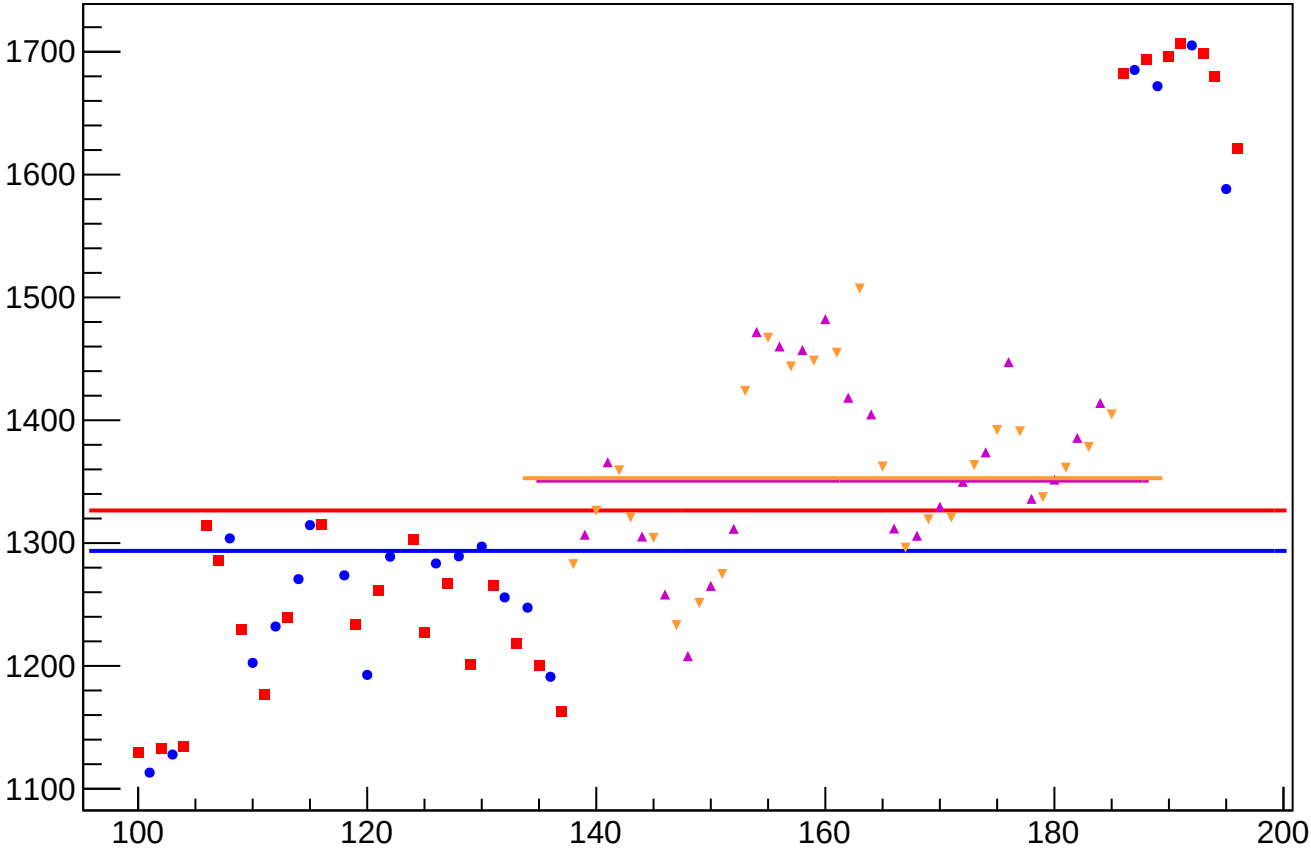
Right: -12.897+/-0.284 $\chi^2$/NDF: 13082.9/45

In: 1.301+/-0.252 $\chi^2$/NDF:10767.5/42

Out: 16.275+/-0.241 $\chi^2$/NDF:22776.2/50

All: 9.113+/-0.174 $\chi^2$/NDF: 35388.7/93

# diff_bpm0i02Y_rms vs Slug, Sign Corrected




Right In: 1293.644+/-0.295 $\chi^2$/NDF: 336133.8/19

Left Out: 1352.820+/-0.218 $\chi^2$/NDF:104845.3/24

Right Out: 1326.564+/-0.274 $\chi^2$/NDF: 545475.7/25

Left In: 1350.830+/-0.223 $\chi^2$/NDF:108618.5/22

Left: 1351.851+/-0.156 $\chi^2$/NDF: 213504.5/47

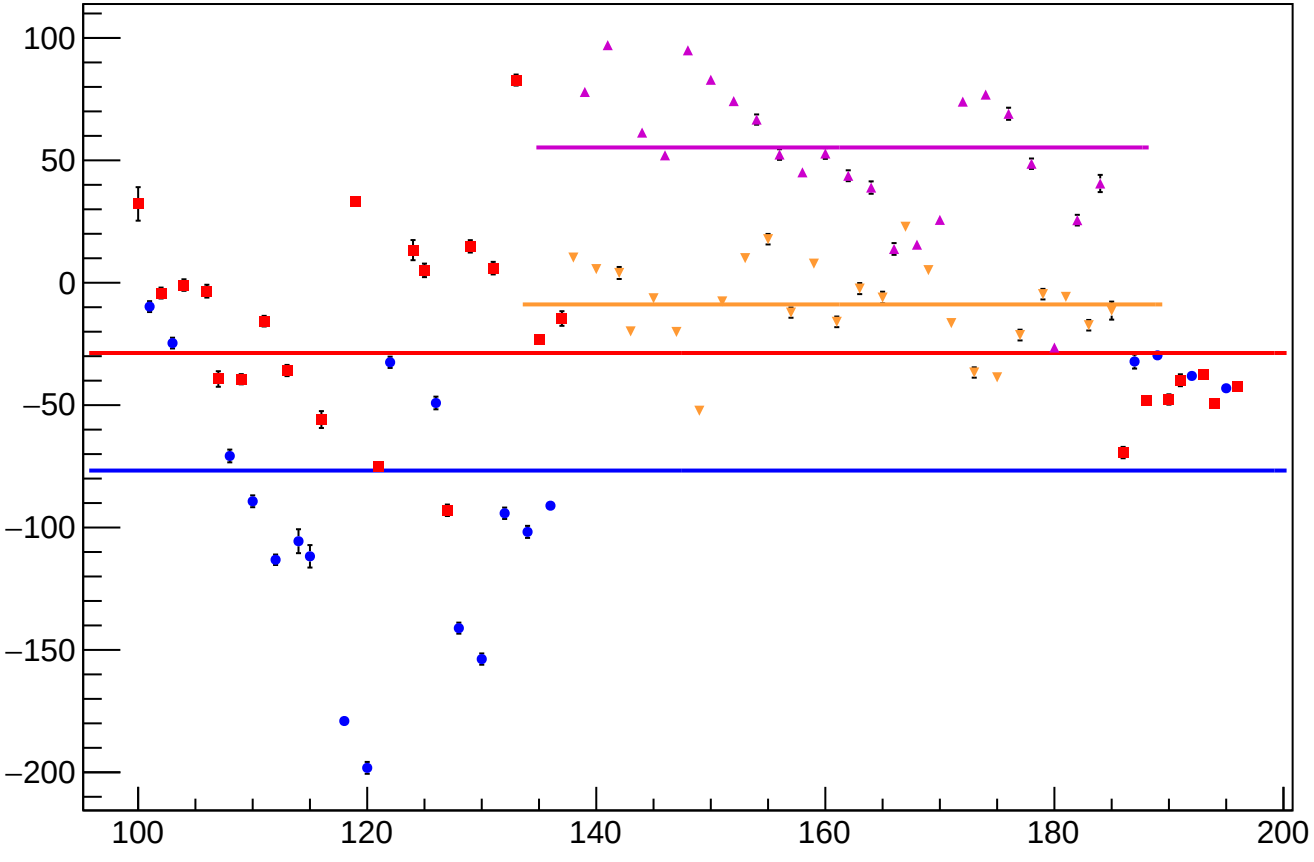
Right: 1311.285+/-0.201 $\chi^2$/NDF: 888302.3/45

In: 1329.936+/-0.178 $\chi^2$/NDF:468671.0/42

Out: 1342.666+/-0.170 $\chi^2$/NDF:655946.7/50

All: 1336.578+/-0.123 $\chi^2$/NDF: 1127284.4/93

# diff_bpm0i02aX_mean vs Slug, Sign Corrected




Right In: -76.725+/-0.470 $\chi^2$/NDF: 12068.0/19

Left Out: -8.859+/-0.407 $\chi^2$/NDF:1953.2/24

Right Out: -28.700+/-0.417 $\chi^2$/NDF: 7025.3/25

Left In: 55.266+/-0.420 $\chi^2$/NDF:4736.1/22

Left: 22.173+/-0.293 $\chi^2$/NDF: 18692.1/47

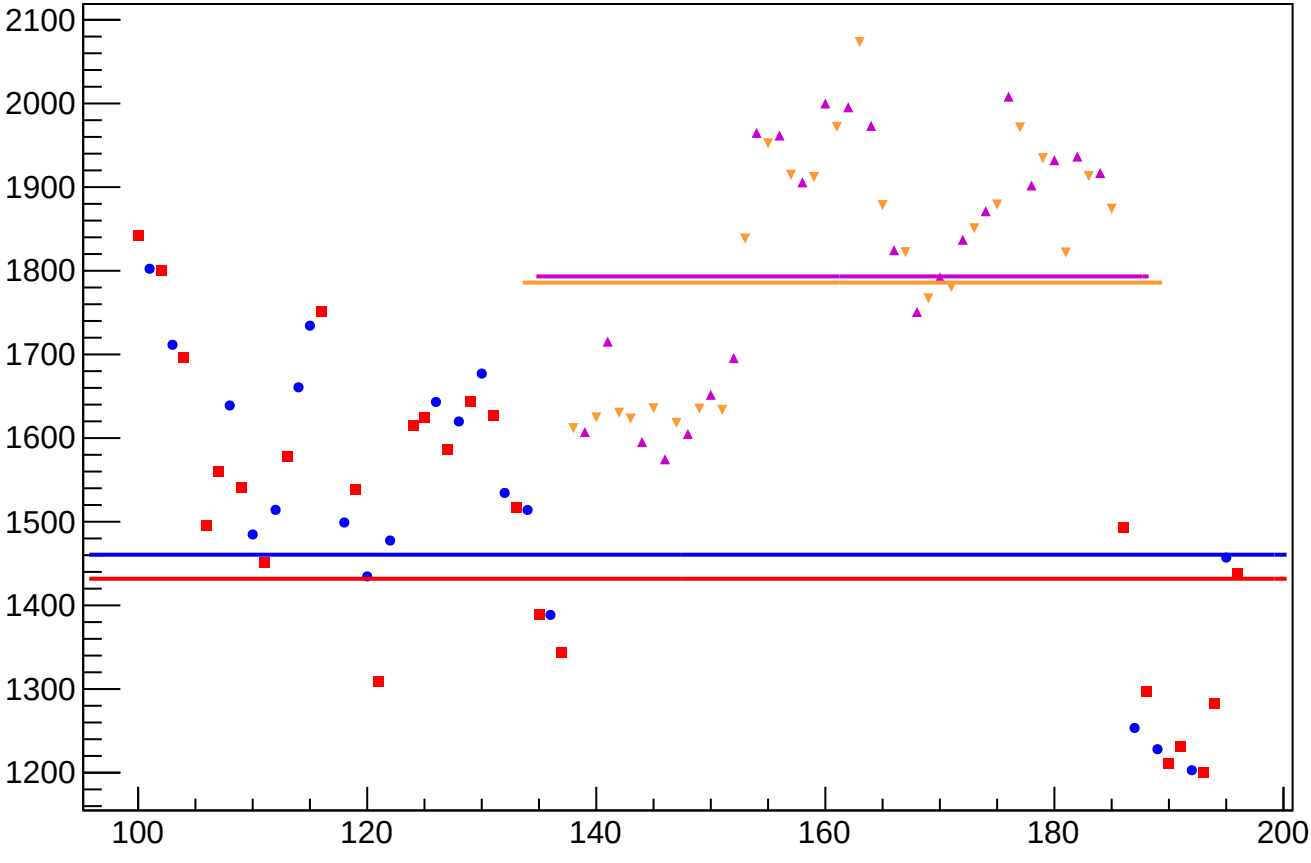
Right: -49.848+/-0.312 $\chi^2$/NDF: 24946.9/45

In: -3.469+/-0.313 $\chi^2$/NDF:60652.7/42

Out: -18.554+/-0.291 $\chi^2$/NDF:10138.6/50

All: -11.562+/-0.213 $\chi^2$/NDF: 72035.4/93

# diff_bpm0i02aX_rms vs Slug, Sign Corrected




Right In: 1460.574+/-0.332 $\chi^2$/NDF: 278362.7/19

Left Out: 1785.836+/-0.288 $\chi^2$/NDF:237239.4/24

Right Out: 1431.839+/-0.295 $\chi^2$/NDF: 329613.9/25

Left In: 1793.249+/-0.297 $\chi^2$/NDF:252788.2/22

Left: 1789.423+/-0.207 $\chi^2$/NDF: 490348.4/47

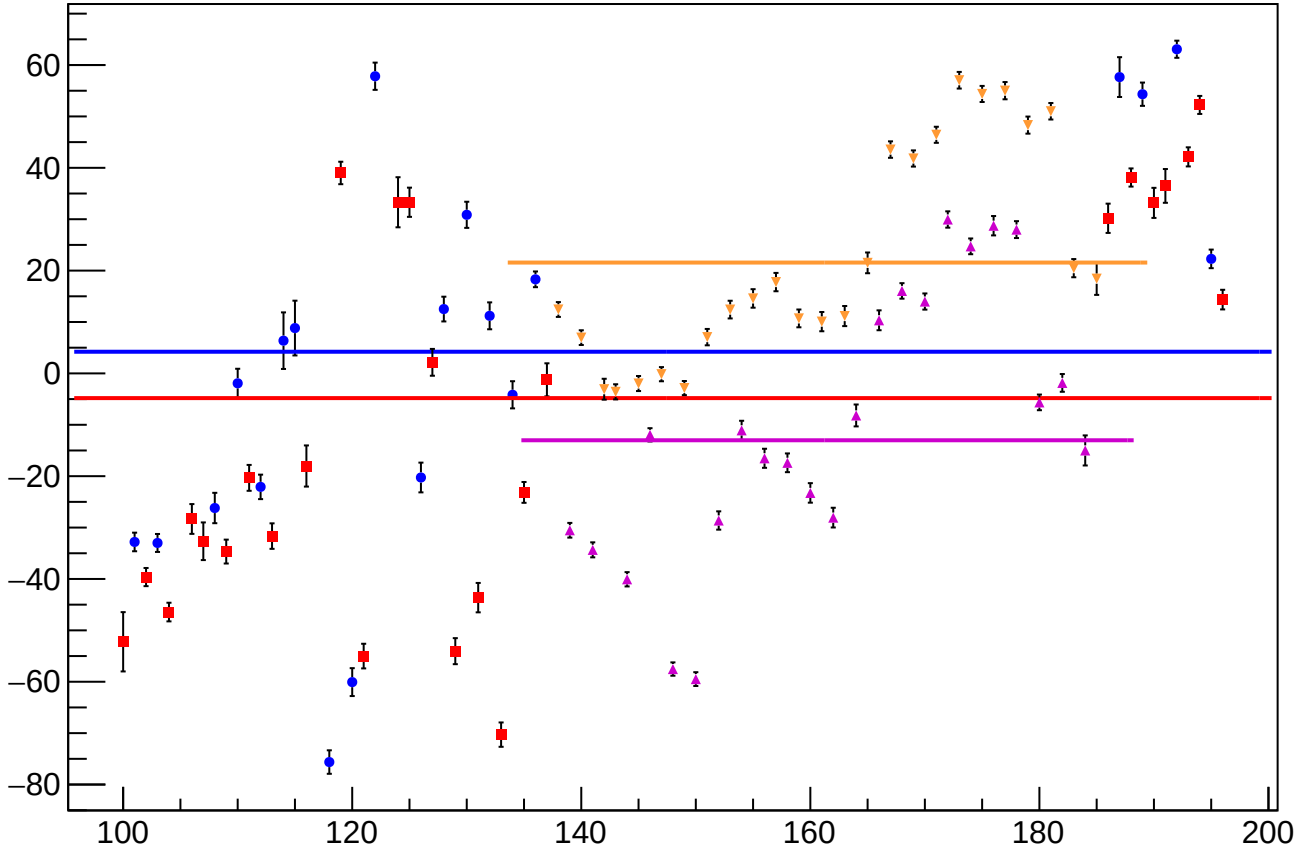
Right: 1444.493+/-0.220 $\chi^2$/NDF: 612167.8/45

In: 1645.210+/-0.222 $\chi^2$/NDF:1088257.0/42

Out: 1612.862+/-0.206 $\chi^2$/NDF:1305508.3/50

All: 1627.856+/-0.151 $\chi^2$/NDF: 2405207.0/93

# diff_bpm0i02aY_mean vs Slug, Sign Corrected




Right In: 4.214+/-0.522 $\chi^2$/NDF: 5615.1/19

Left Out: 21.567+/-0.330 $\chi^2$/NDF:4160.8/24

Right Out: -4.809+/-0.474 $\chi^2$/NDF: 6799.4/25

Left In: -13.014+/-0.340 $\chi^2$/NDF:6627.2/22

Left: 4.798+/-0.237 $\chi^2$/NDF: 16115.3/47

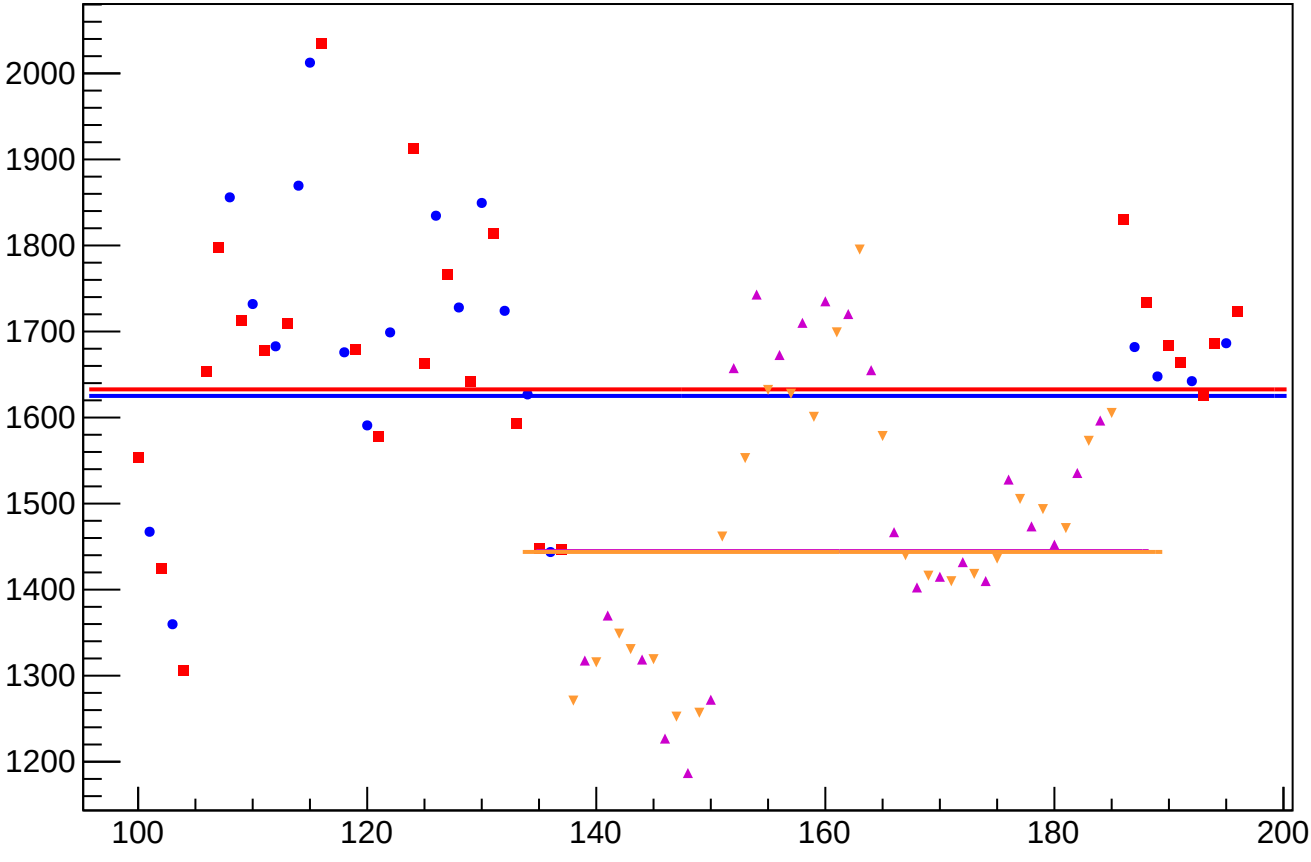
Right: -0.727+/-0.351 $\chi^2$/NDF: 12578.4/45

In: -7.875+/-0.285 $\chi^2$/NDF:13008.0/42

Out: 12.960+/-0.271 $\chi^2$/NDF:13045.7/50

All: 3.069+/-0.196 $\chi^2$/NDF: 28864.1/93

# diff_bpm0i02aY_rms vs Slug, Sign Corrected




Right In: 1625.138+/-0.369 $\chi^2$/NDF: 158644.9/19

Left Out: 1443.826+/-0.233 $\chi^2$/NDF:352397.9/24

Right Out: 1632.752+/-0.335 $\chi^2$/NDF: 191719.4/25

Left In: 1444.817+/-0.240 $\chi^2$/NDF:485230.7/22

Left: 1444.307+/-0.167 $\chi^2$/NDF: 837637.3/47

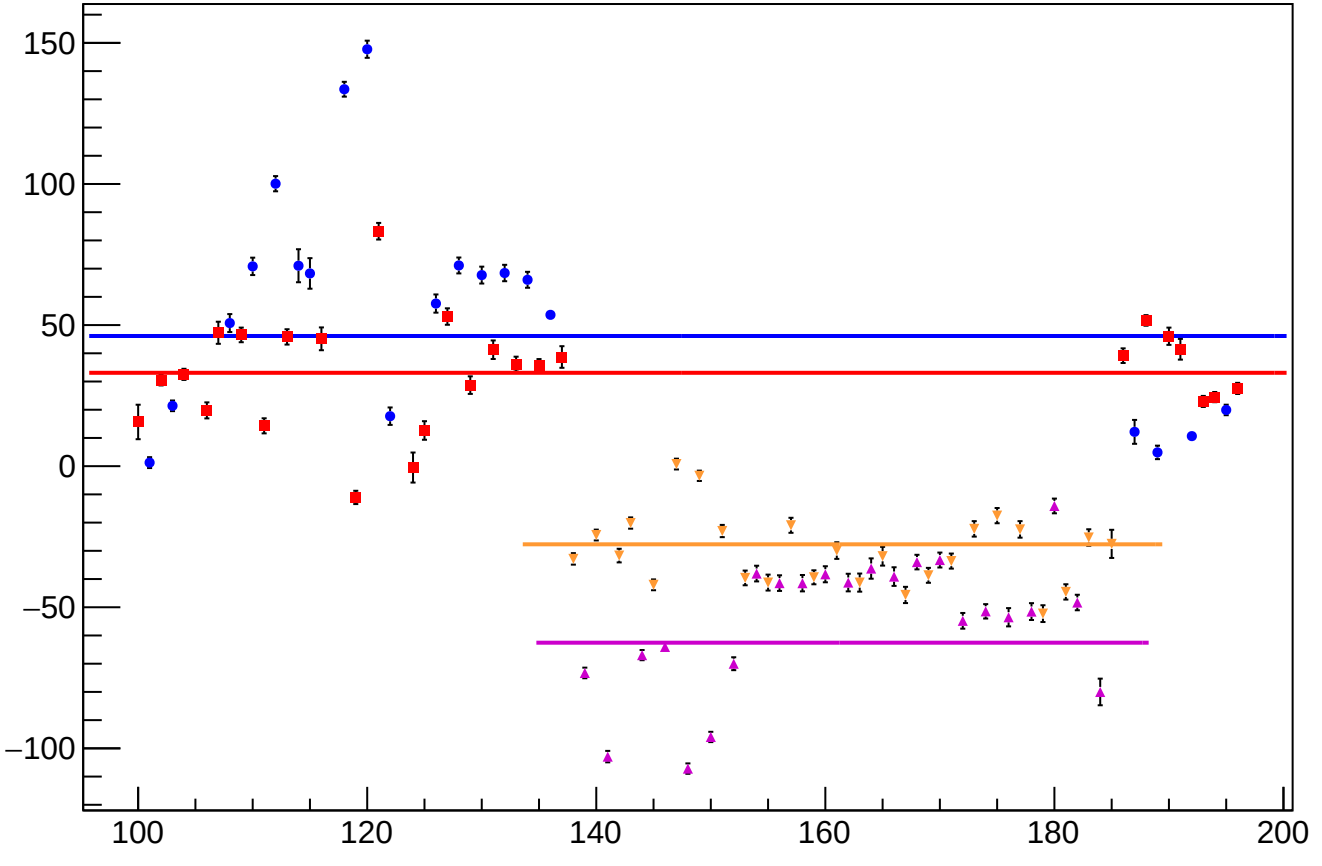
Right: 1629.308+/-0.248 $\chi^2$/NDF: 350597.8/45

In: 1498.599+/-0.201 $\chi^2$/NDF:811629.5/42

Out: 1505.474+/-0.191 $\chi^2$/NDF:758124.1/50

All: 1502.210+/-0.139 $\chi^2$/NDF: 1570365.5/93

# diff_bpm0i05X_mean vs Slug, Sign Corrected




Right In: 46.132+/-0.573 $\chi^2$/NDF: 4755.8/19

Left Out: -27.692+/-0.496 $\chi^2$/NDF:766.1/24

Right Out: 33.089+/-0.512 $\chi^2$/NDF: 1115.9/25

Left In: -62.558+/-0.512 $\chi^2$/NDF:2458.2/22

Left: -44.581+/-0.356 $\chi^2$/NDF: 5617.4/47

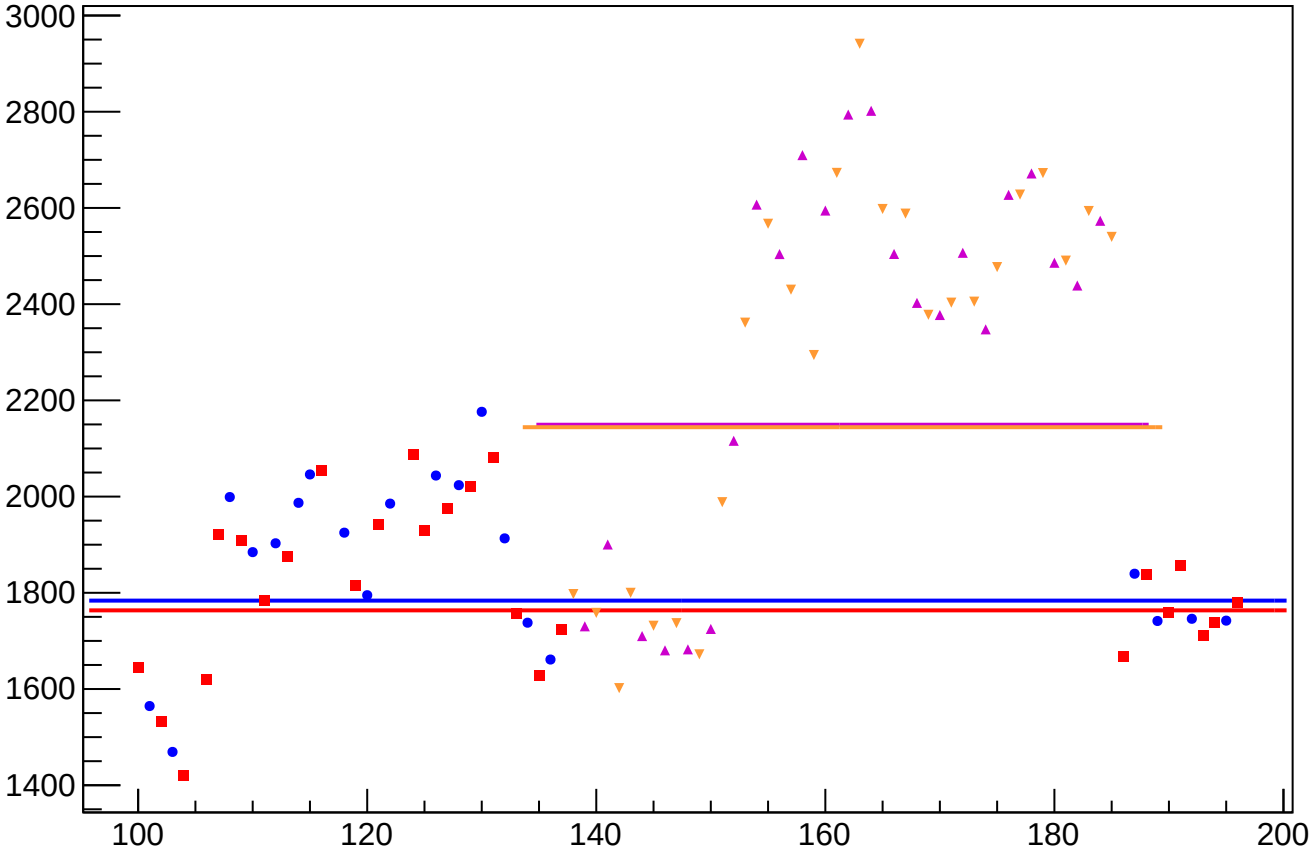
Right: 38.880+/-0.382 $\chi^2$/NDF: 6160.0/45

In: -14.312+/-0.382 $\chi^2$/NDF:27236.9/42

Out: 1.745+/-0.356 $\chi^2$/NDF:9154.0/50

All: -5.731+/-0.260 $\chi^2$/NDF: 37337.0/93

# diff_bpm0i05X_rms vs Slug, Sign Corrected




Right In: 1783.771+/-0.405 $\chi^2$/NDF: 196773.7/19

Left Out: 2144.219+/-0.351 $\chi^2$/NDF:1279852.9/24

Right Out: 1763.502+/-0.362 $\chi^2$/NDF: 199043.0/25

Left In: 2149.354+/-0.362 $\chi^2$/NDF:1265722.5/22

Left: 2146.707+/-0.252 $\chi^2$/NDF: 2545679.2/47

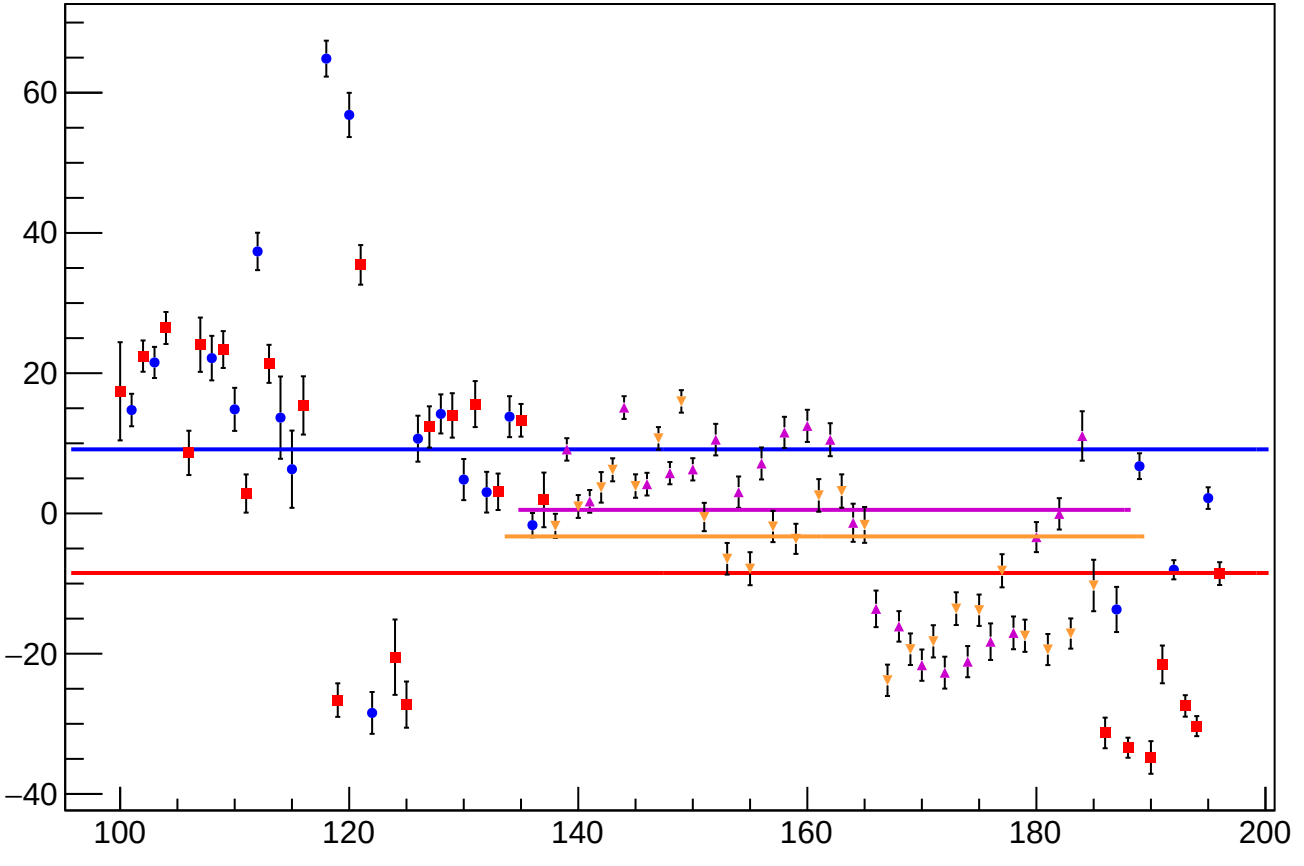
Right: 1772.501+/-0.270 $\chi^2$/NDF: 397209.2/45

In: 1987.078+/-0.270 $\chi^2$/NDF:1915558.8/42

Out: 1959.832+/-0.252 $\chi^2$/NDF:2049522.4/50

All: 1972.517+/-0.184 $\chi^2$/NDF: 3970529.1/93

# diff_bpm0i05Y_mean vs Slug, Sign Corrected




Right In: 9.139+/-0.541 $\chi^2$/NDF: 1312.3/19

Left Out: -3.275+/-0.415 $\chi^2$/NDF:671.1/24

Right Out: -8.490+/-0.471 $\chi^2$/NDF: 2413.5/25

Left In: 0.511+/-0.430 $\chi^2$/NDF:745.8/22

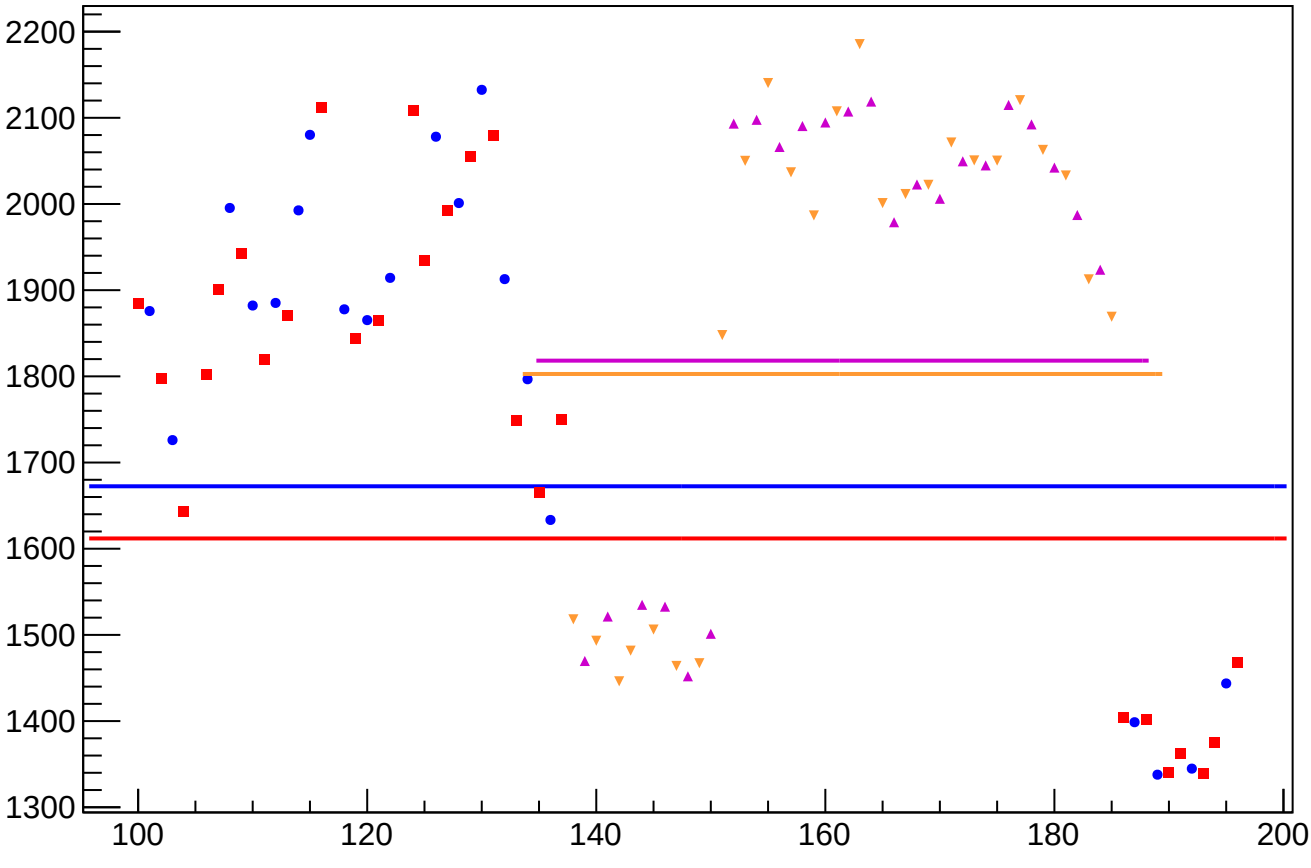
Left: -1.450+/-0.298 $\chi^2$/NDF: 1457.1/47

Right: -0.878+/-0.355 $\chi^2$/NDF: 4329.7/45

In: 3.851+/-0.336 $\chi^2$/NDF:2214.2/42

Out: -5.550+/-0.311 $\chi^2$/NDF:3153.6/50

All: -1.214+/-0.229 $\chi^2$/NDF: 5788.4/93




Right In: 1672.440+/-0.382 $\chi^2$/NDF: 475640.4/19

Left Out: 1802.748+/-0.293 $\chi^2$/NDF:897375.1/24

Right Out: 1611.905+/-0.333 $\chi^2$/NDF: 558520.2/25

Left In: 1818.225+/-0.304 $\chi^2$/NDF:840353.0/22

Left: 1810.209+/-0.211 $\chi^2$/NDF: 1739071.4/47

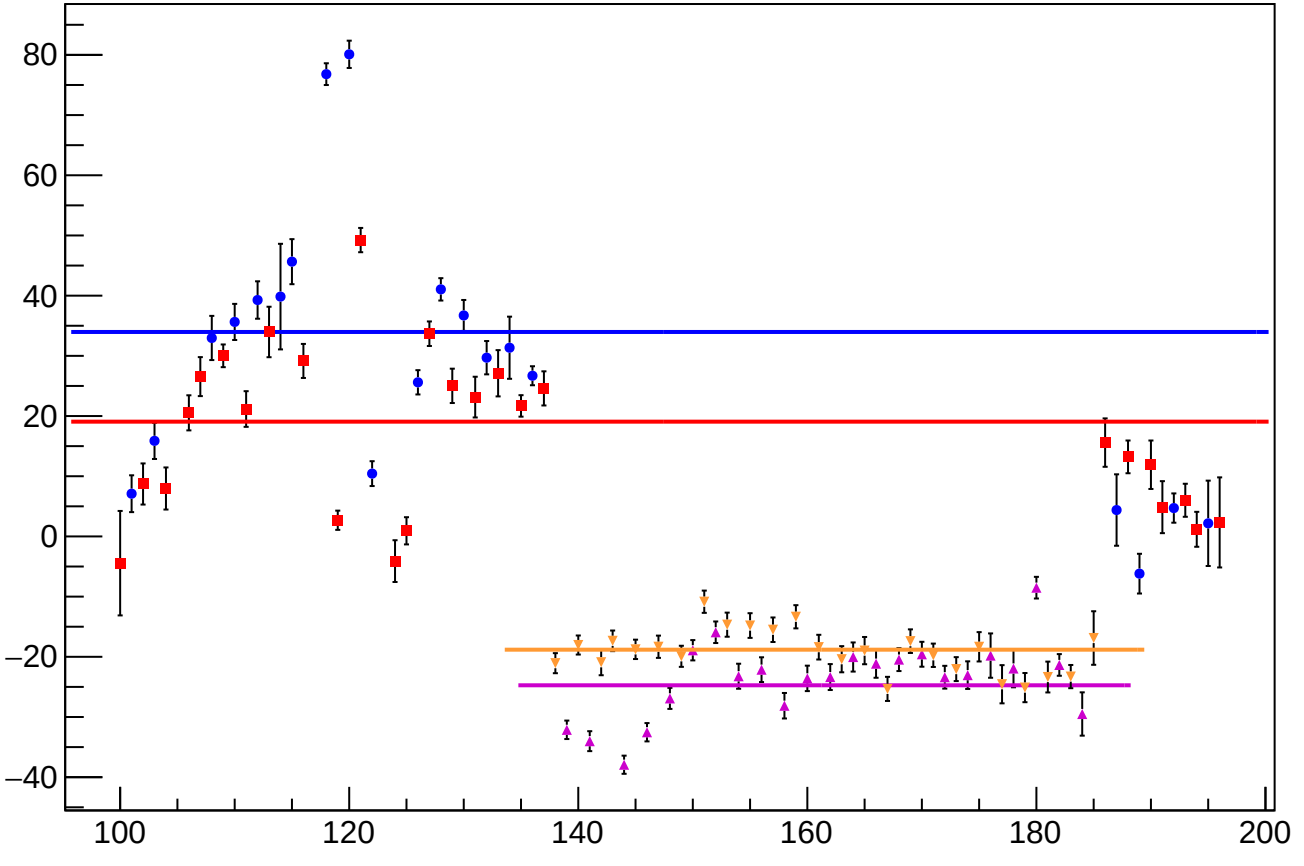
Right: 1638.041+/-0.251 $\chi^2$/NDF: 1048402.2/45

In: 1761.788+/-0.238 $\chi^2$/NDF:1405080.0/42

Out: 1719.497+/-0.220 $\chi^2$/NDF:1640718.6/50

All: 1739.005+/-0.162 $\chi^2$/NDF: 3062821.7/93

# diff_bpm0i07X_mean vs Slug, Sign Corrected




Right In: 33.968+/-0.588 $\chi^2$/NDF: 1626.9/19

Left Out: -18.816+/-0.402 $\chi^2$/NDF:74.9/24

Right Out: 19.067+/-0.540 $\chi^2$/NDF: 681.9/25

Left In: -24.731+/-0.409 $\chi^2$/NDF:308.0/22

Left: -21.723+/-0.287 $\chi^2$/NDF: 489.4/47

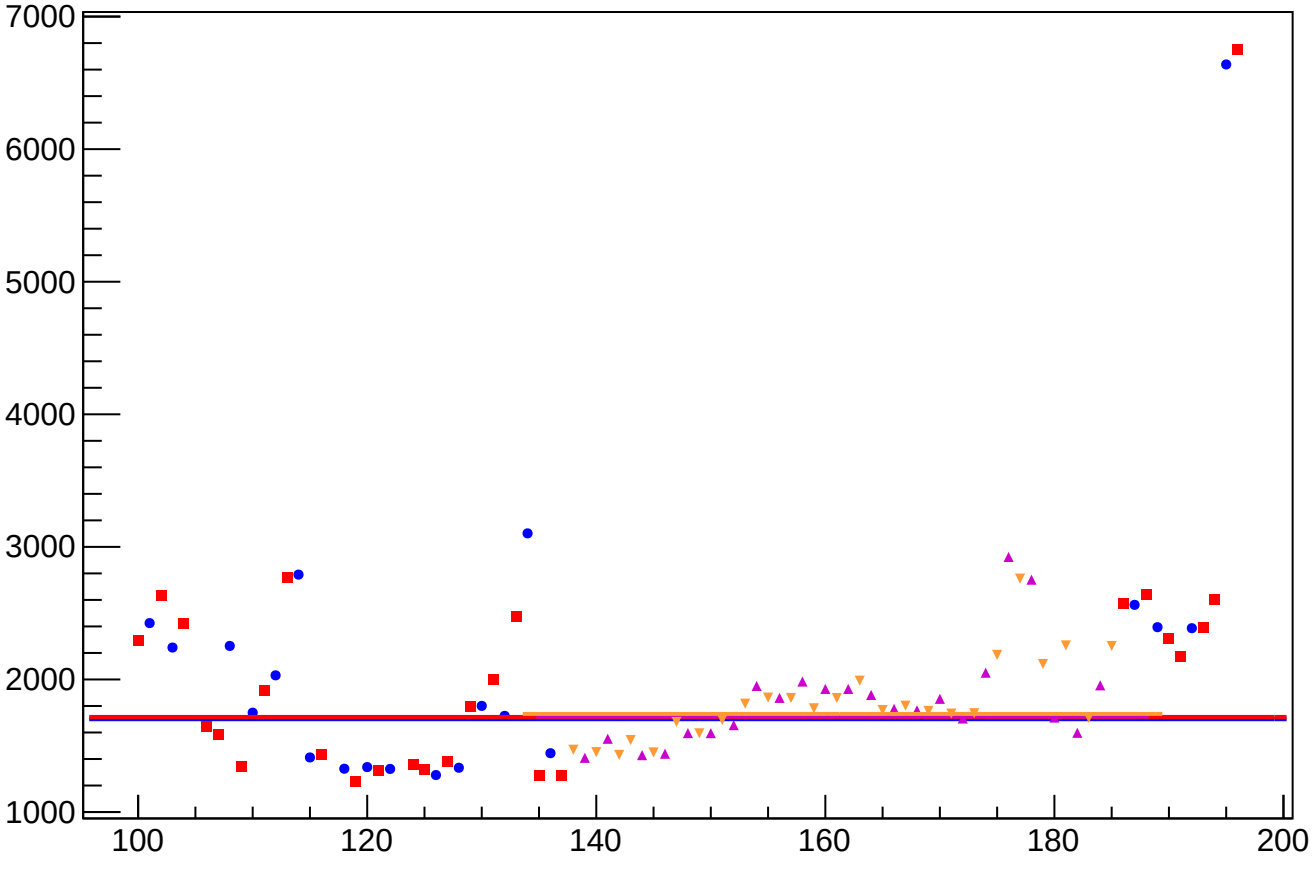
Right: 25.886+/-0.398 $\chi^2$/NDF: 2656.9/45

In: -5.613+/-0.336 $\chi^2$/NDF:8651.1/42

Out: -5.319+/-0.322 $\chi^2$/NDF:3921.9/50

All: -5.460+/-0.233 $\chi^2$/NDF: 12573.5/93

# diff_bpm0i07X_rms vs Slug, Sign Corrected




Right In: 1700.195+/-0.416 $\chi^2$/NDF: 2118706.3/19

Left Out: 1740.089+/-0.284 $\chi^2$/NDF:753377.5/24

Right Out: 1717.473+/-0.382 $\chi^2$/NDF: 2745634.8/25

Left In: 1720.864+/-0.289 $\chi^2$/NDF:883990.4/22

Left: 1730.639+/-0.203 $\chi^2$/NDF: 1639617.2/47

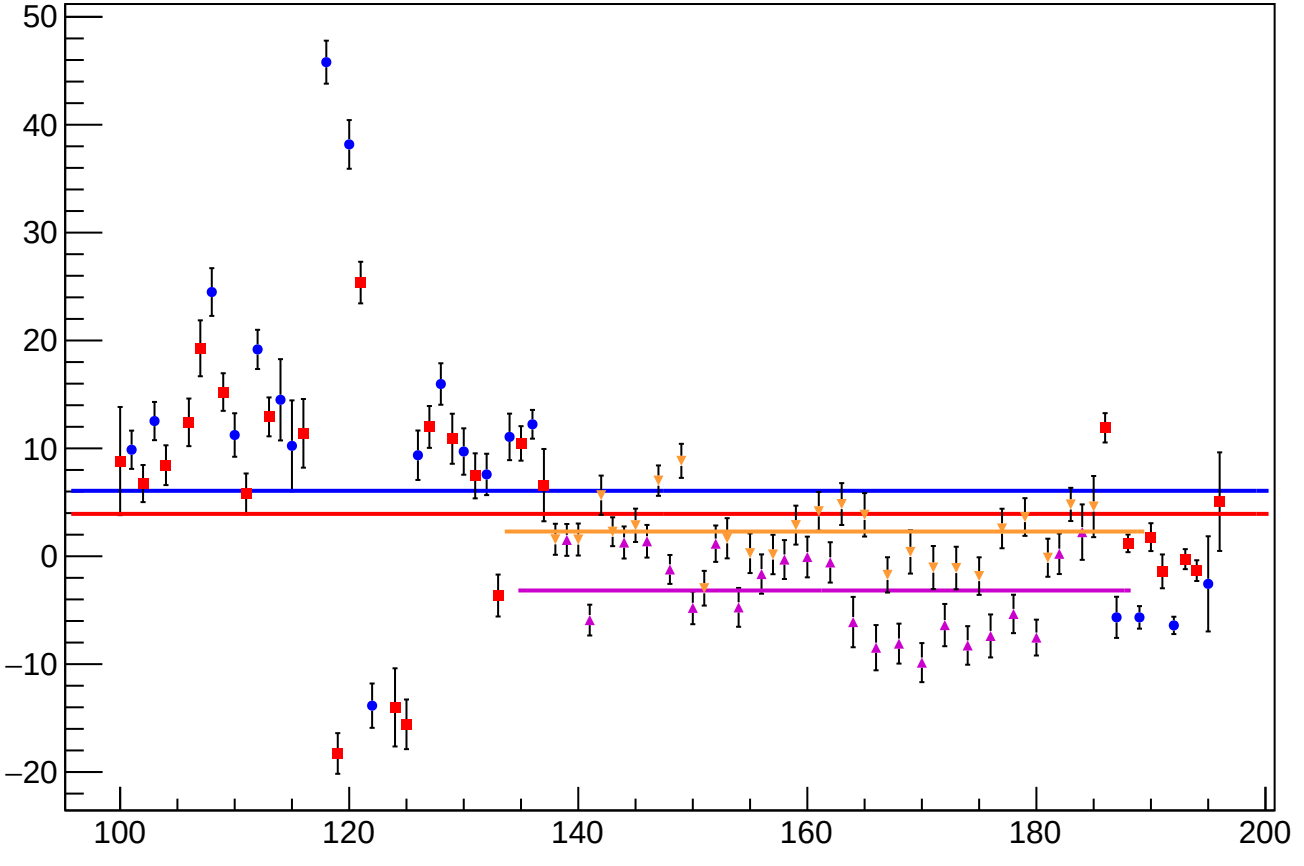
Right: 1709.567+/-0.281 $\chi^2$/NDF: 4865277.3/45

In: 1714.132+/-0.237 $\chi^2$/NDF:3004362.2/42

Out: 1732.032+/-0.228 $\chi^2$/NDF:3501268.4/50

All: 1723.441+/-0.164 $\chi^2$/NDF: 6508588.1/93

# diff_bpm0i07Y_mean vs Slug, Sign Corrected




Right In: 6.067+/-0.386 $\chi^2$/NDF: 1313.8/19

Left Out: 2.293+/-0.343 $\chi^2$/NDF:73.5/24

Right Out: 3.928+/-0.322 $\chi^2$/NDF: 663.8/25

Left In: -3.173+/-0.362 $\chi^2$/NDF:110.4/22

Left: -0.293+/-0.249 $\chi^2$/NDF: 303.7/47

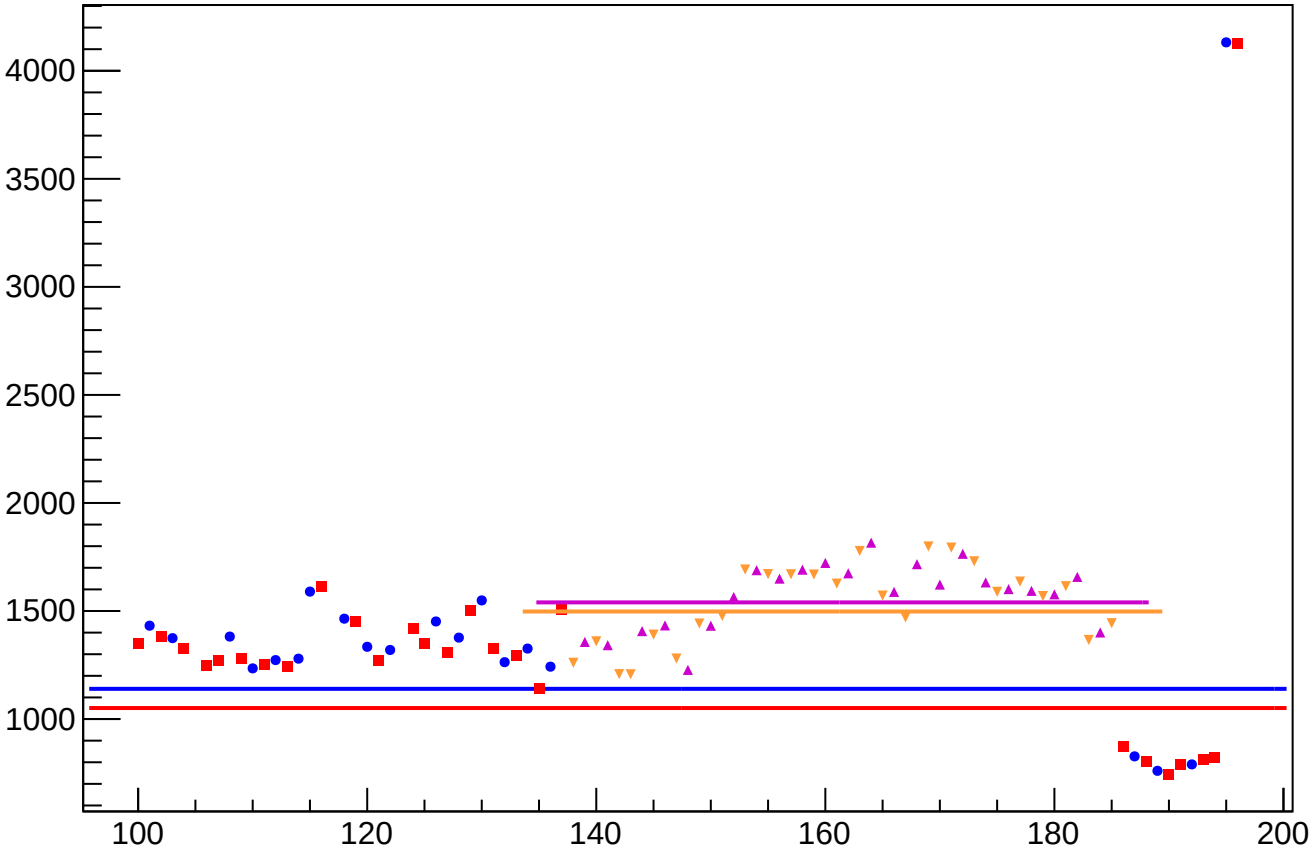
Right: 4.808+/-0.247 $\chi^2$/NDF: 1995.7/45

In: 1.160+/-0.264 $\chi^2$/NDF:1728.9/42

Out: 3.162+/-0.235 $\chi^2$/NDF:749.4/50

All: 2.277+/-0.176 $\chi^2$/NDF: 2510.3/93

# diff_bpm0i07Y_rms vs Slug, Sign Corrected




Right In: 1139.822+/-0.273 $\chi^2$/NDF: 2028861.4/19

Left Out: 1497.713+/-0.243 $\chi^2$/NDF:568629.4/24

Right Out: 1050.954+/-0.228 $\chi^2$/NDF: 2236173.7/25

Left In: 1539.884+/-0.256 $\chi^2$/NDF:380330.7/22

Left: 1517.667+/-0.176 $\chi^2$/NDF: 963225.2/47

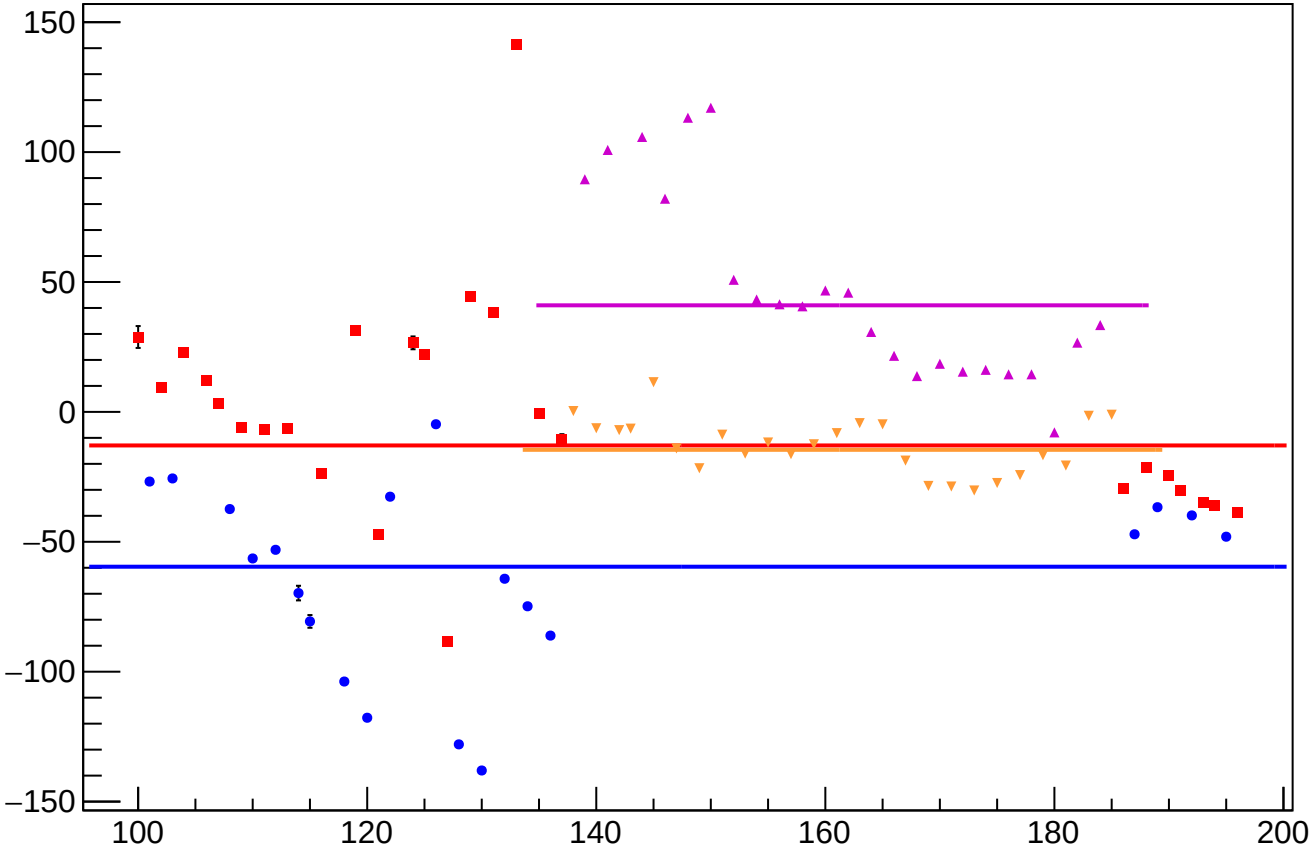
Right: 1087.513+/-0.175 $\chi^2$/NDF: 4327526.3/45

In: 1352.286+/-0.187 $\chi^2$/NDF:3551861.5/42

Out: 1260.251+/-0.166 $\chi^2$/NDF:4603316.3/50

All: 1300.934+/-0.124 $\chi^2$/NDF: 8290672.9/93

# diff_bpm1i02X_mean vs Slug, Sign Corrected




Right In: -59.590+/-0.264 $\chi^2$/NDF: 15385.6/19

Left Out: -14.597+/-0.183 $\chi^2$/NDF:3159.3/24

Right Out: -12.915+/-0.229 $\chi^2$/NDF: 27534.4/25

Left In: 41.021+/-0.190 $\chi^2$/NDF:31066.6/22

Left: 12.192+/-0.132 $\chi^2$/NDF: 78745.1/47

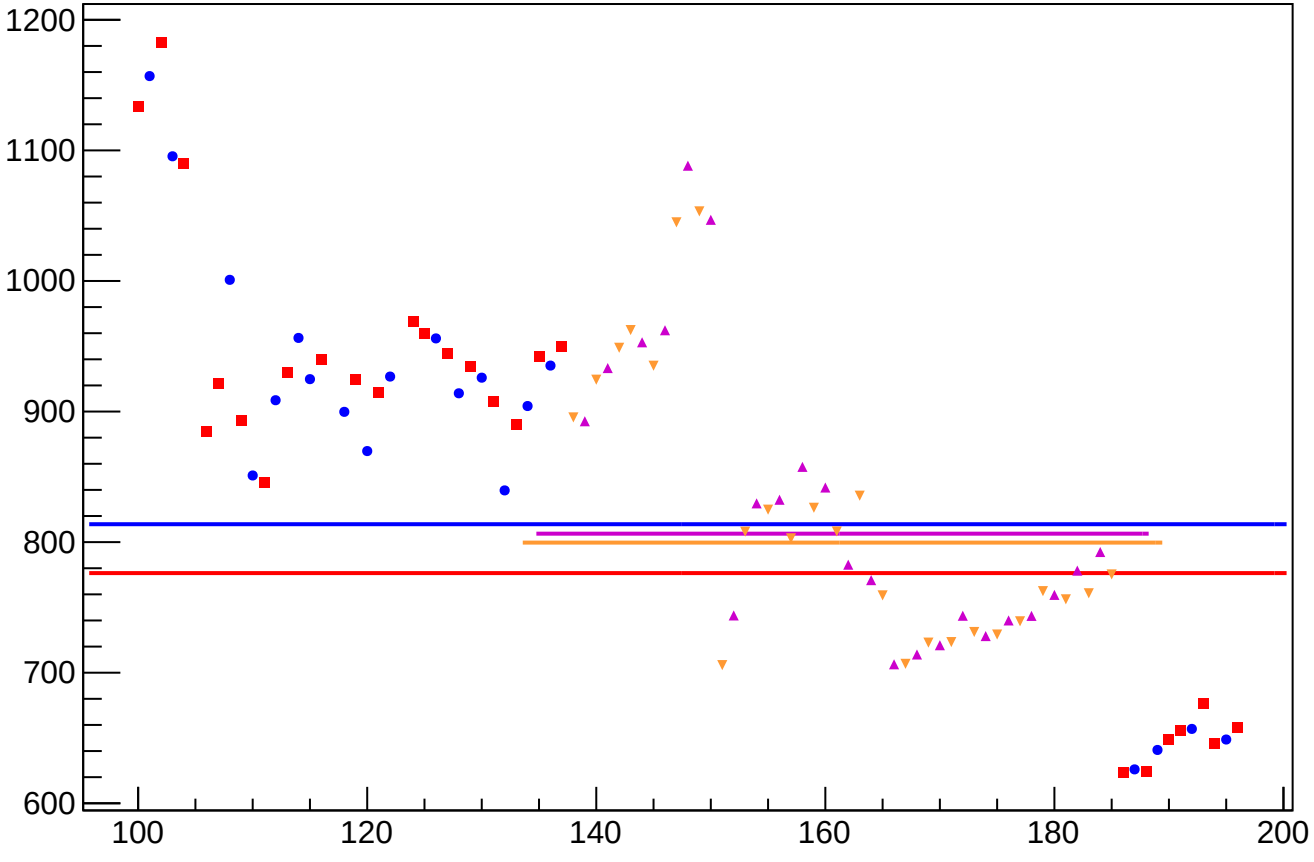
Right: -32.884+/-0.173 $\chi^2$/NDF: 60742.3/45

In: 6.822+/-0.154 $\chi^2$/NDF:141985.9/42

Out: -13.941+/-0.143 $\chi^2$/NDF:30726.6/50

All: -4.350+/-0.105 $\chi^2$/NDF: 182469.9/93

# diff_bpm1i02X_rms vs Slug, Sign Corrected




Right In: 813.720+/-0.187 $\chi^2$/NDF: 689108.0/19

Left Out: 799.639+/-0.129 $\chi^2$/NDF:497430.7/24

Right Out: 776.288+/-0.162 $\chi^2$/NDF: 928334.5/25

Left In: 806.478+/-0.134 $\chi^2$/NDF:511294.8/22

Left: 802.933+/-0.093 $\chi^2$/NDF: 1010071.7/47

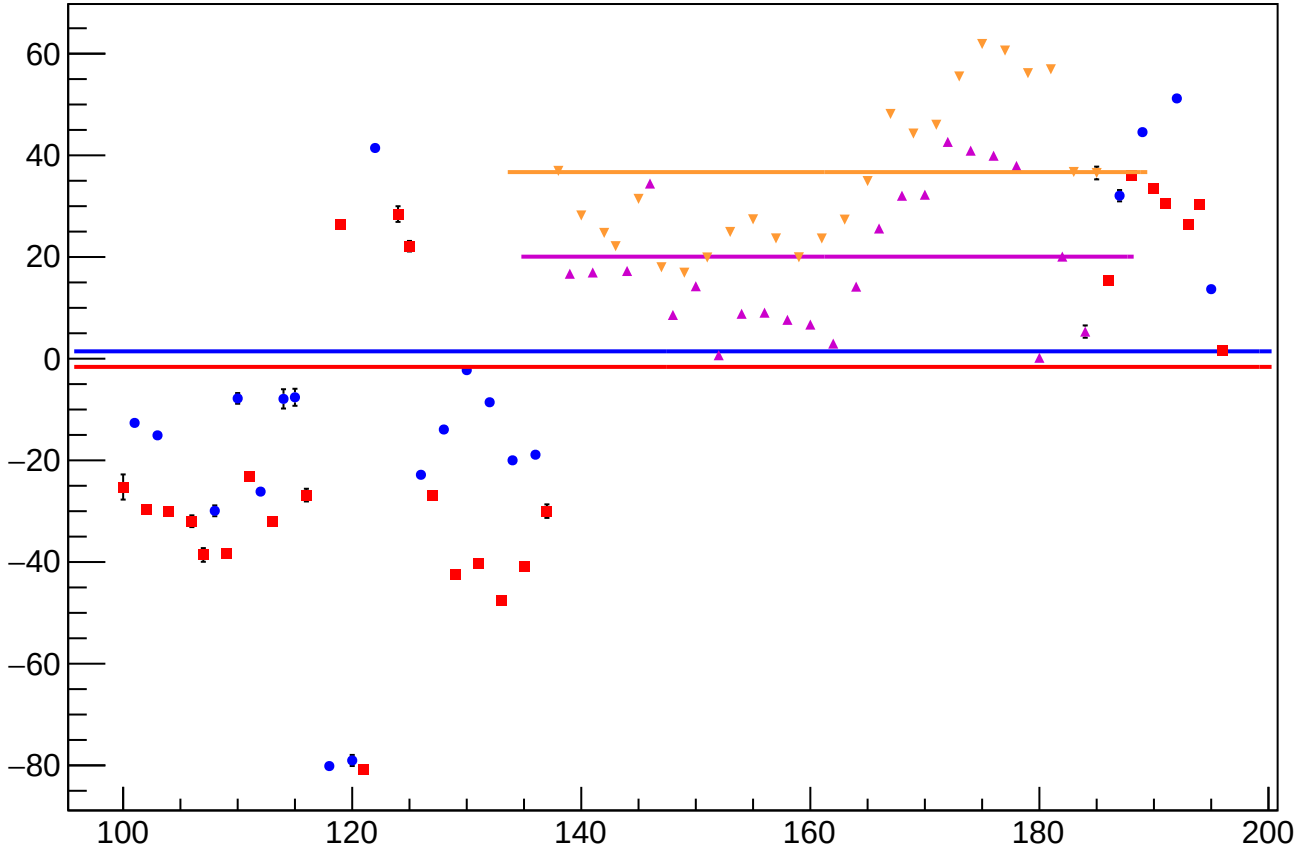
Right: 792.302+/-0.122 $\chi^2$/NDF: 1640366.4/45

In: 808.940+/-0.109 $\chi^2$/NDF:1201392.6/42

Out: 790.527+/-0.101 $\chi^2$/NDF:1438480.5/50

All: 799.032+/-0.074 $\chi^2$/NDF: 2655219.8/93

# diff_bpm1i02Y_mean vs Slug, Sign Corrected




Right In: 1.445+/-0.184 $\chi^2$/NDF: 37507.8/19

Left Out: 36.705+/-0.145 $\chi^2$/NDF:10231.1/24

Right Out: -1.615+/-0.162 $\chi^2$/NDF: 42865.7/25

Left In: 20.069+/-0.151 $\chi^2$/NDF:8560.6/22

Left: 28.712+/-0.105 $\chi^2$/NDF: 25078.0/47

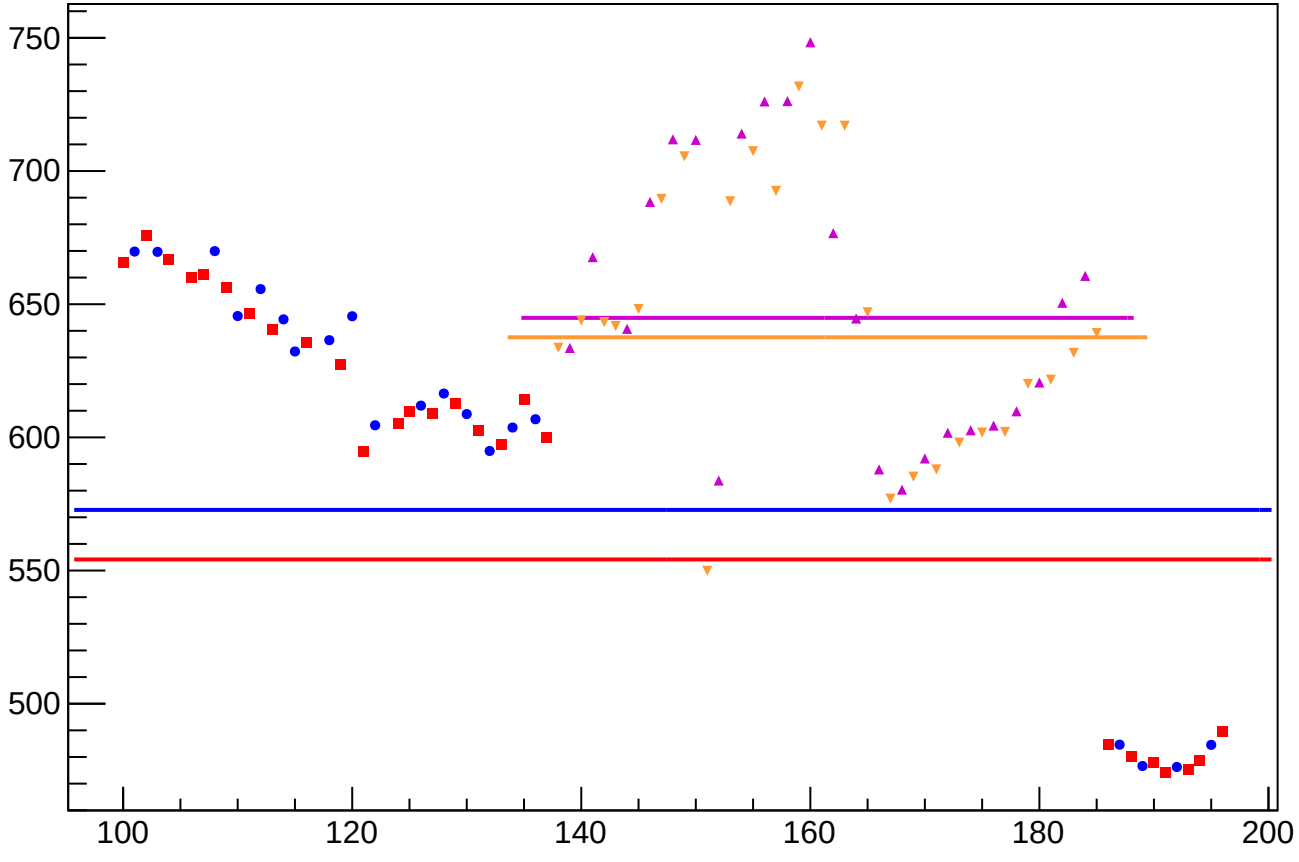
Right: -0.286+/-0.122 $\chi^2$/NDF: 80529.4/45

In: 12.579+/-0.117 $\chi^2$/NDF:52167.6/42

Out: 19.551+/-0.108 $\chi^2$/NDF:84177.9/50

All: 16.339+/-0.079 $\chi^2$/NDF: 138262.4/93

# diff_bpm1i02Y_rms vs Slug, Sign Corrected




Right In: 572.769+/-0.130 $\chi^2$/NDF: 337135.2/19

Left Out: 637.569+/-0.103 $\chi^2$/NDF:236539.6/24

Right Out: 554.162+/-0.114 $\chi^2$/NDF: 452018.8/25

Left In: 644.873+/-0.107 $\chi^2$/NDF:229560.3/22

Left: 641.078+/-0.074 $\chi^2$/NDF: 468523.1/47

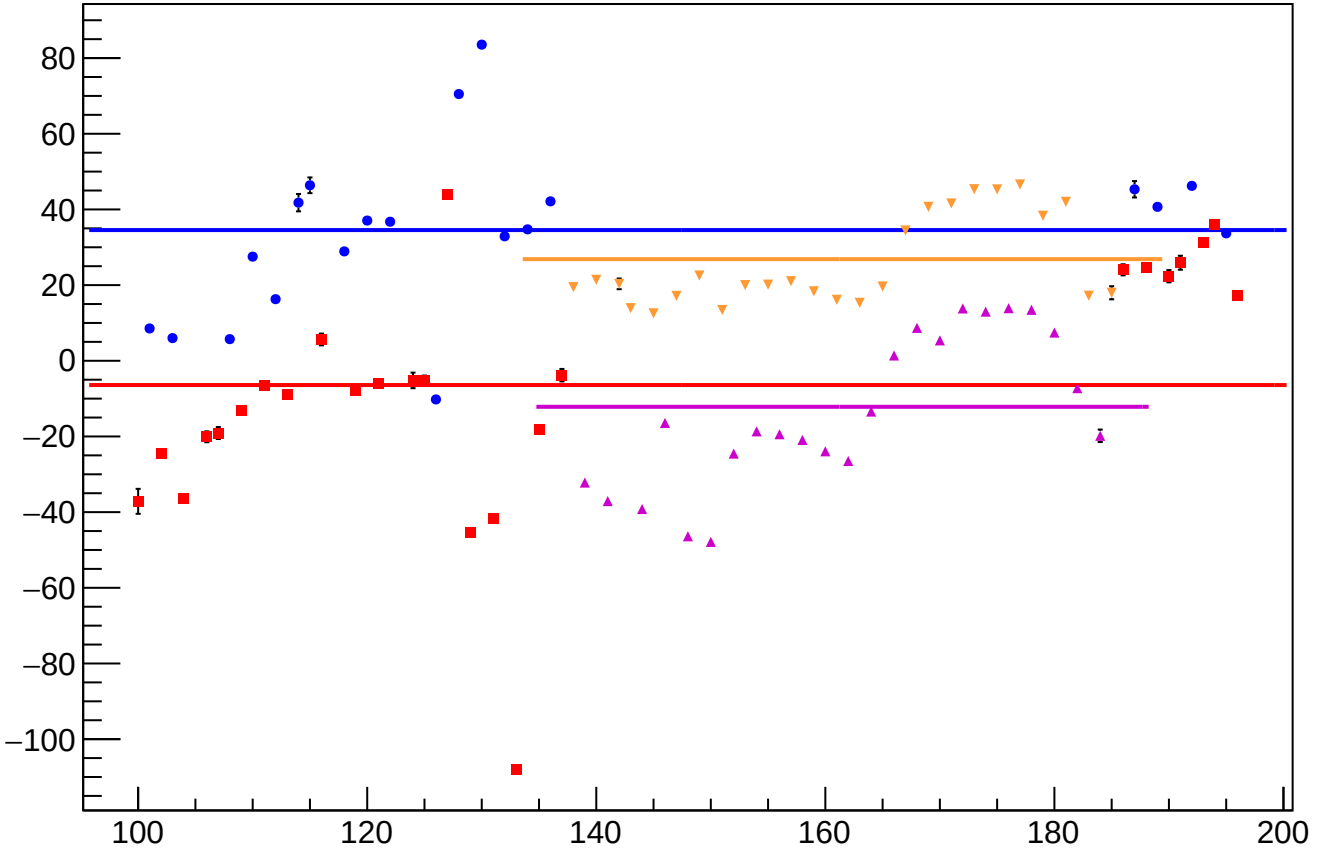
Right: 562.242+/-0.086 $\chi^2$/NDF: 800676.6/45

In: 615.873+/-0.083 $\chi^2$/NDF:749535.8/42

Out: 600.232+/-0.076 $\chi^2$/NDF:983064.3/50

All: 607.438+/-0.056 $\chi^2$/NDF: 1751899.1/93

# diff_bpm1i04X_mean vs Slug, Sign Corrected




Right In: 34.545+/-0.259 $\chi^2$/NDF: 6927.1/19

Left Out: 26.866+/-0.207 $\chi^2$/NDF:3390.4/24

Right Out: -6.413+/-0.240 $\chi^2$/NDF: 19990.9/25

Left In: -12.159+/-0.214 $\chi^2$/NDF:8547.0/22

Left: 8.004+/-0.149 $\chi^2$/NDF: 29170.3/47

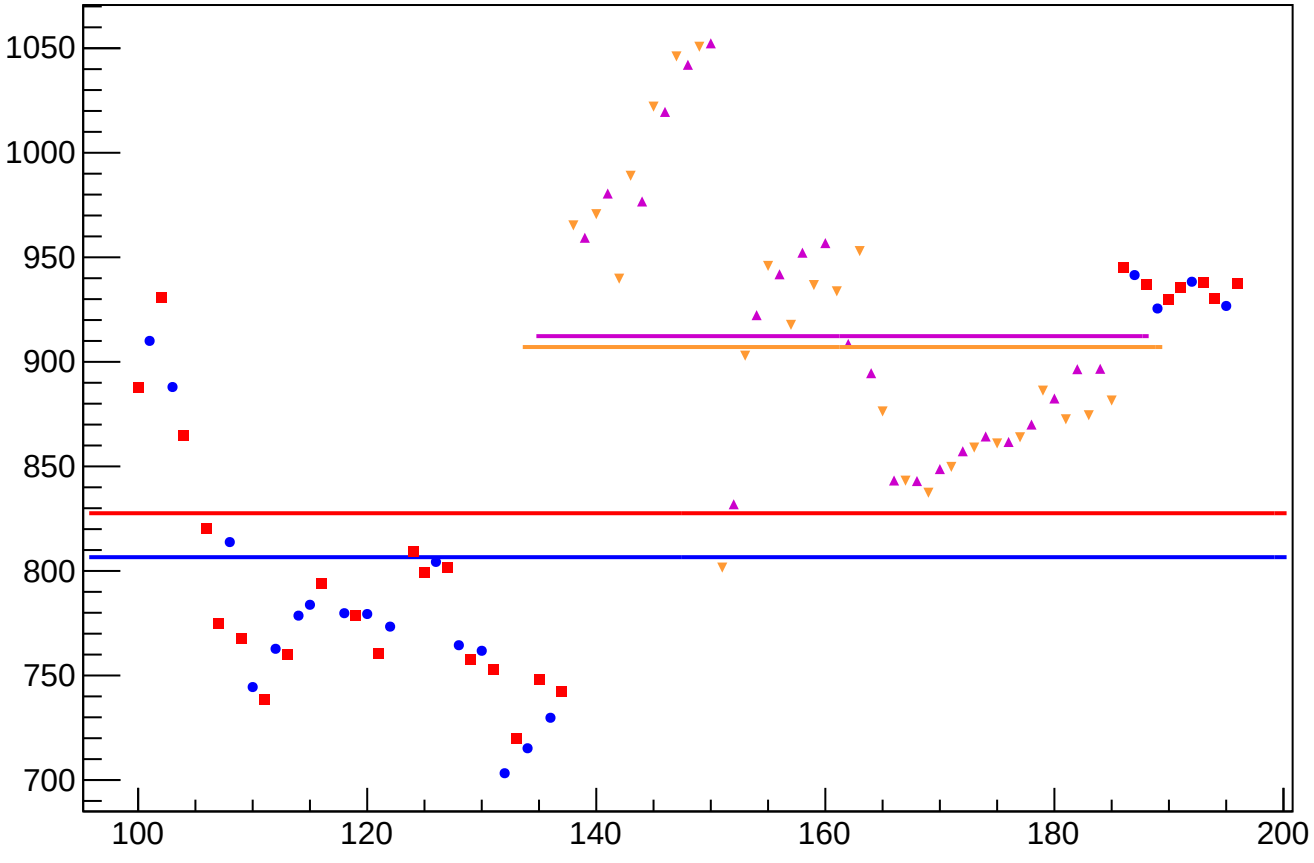
Right: 12.545+/-0.176 $\chi^2$/NDF: 40378.0/45

In: 6.780+/-0.165 $\chi^2$/NDF:34845.0/42

Out: 12.709+/-0.157 $\chi^2$/NDF:34411.8/50

All: 9.893+/-0.114 $\chi^2$/NDF: 69936.9/93

# diff_bpm1i04X_rms vs Slug, Sign Corrected




Right In: 806.588+/-0.183 $\chi^2$/NDF: 190641.0/19

Left Out: 907.089+/-0.146 $\chi^2$/NDF:194606.8/24

Right Out: 827.605+/-0.170 $\chi^2$/NDF: 234772.9/25

Left In: 912.301+/-0.151 $\chi^2$/NDF:174715.2/22

Left: 909.608+/-0.105 $\chi^2$/NDF: 369936.7/47

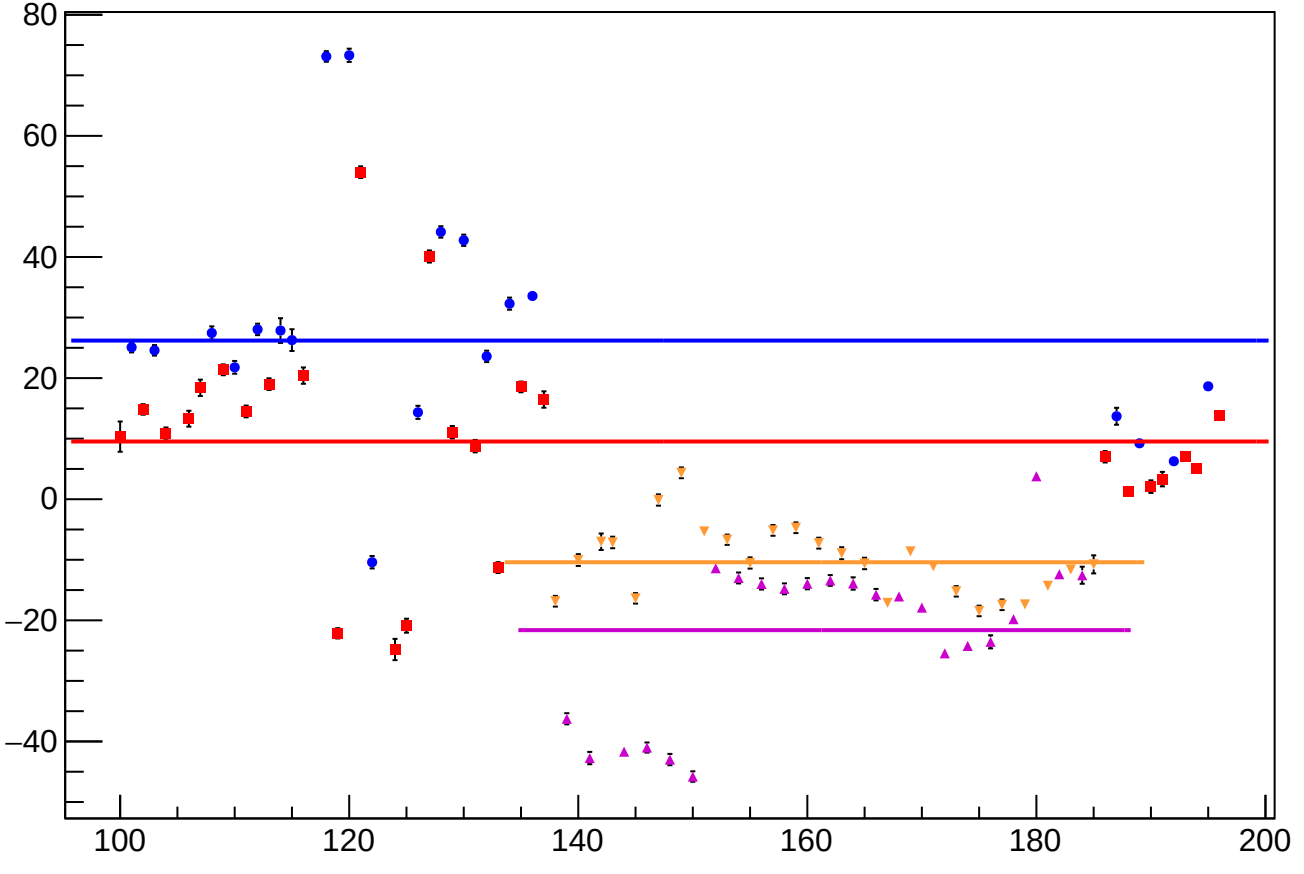
Right: 817.876+/-0.124 $\chi^2$/NDF: 432501.8/45

In: 869.434+/-0.117 $\chi^2$/NDF:563840.7/42

Out: 873.275+/-0.111 $\chi^2$/NDF:555227.5/50

All: 871.451+/-0.080 $\chi^2$/NDF: 1119638.9/93

# diff_bpm1i04Y_mean vs Slug, Sign Corrected




Right In: 26.197+/-0.201 $\chi^2$/NDF: 8815.8/19

Left Out: -10.406+/-0.176 $\chi^2$/NDF:1041.8/24

Right Out: 9.530+/-0.184 $\chi^2$/NDF: 7026.9/25

Left In: -21.621+/-0.182 $\chi^2$/NDF:5241.8/22

Left: -15.828+/-0.126 $\chi^2$/NDF: 8246.4/47

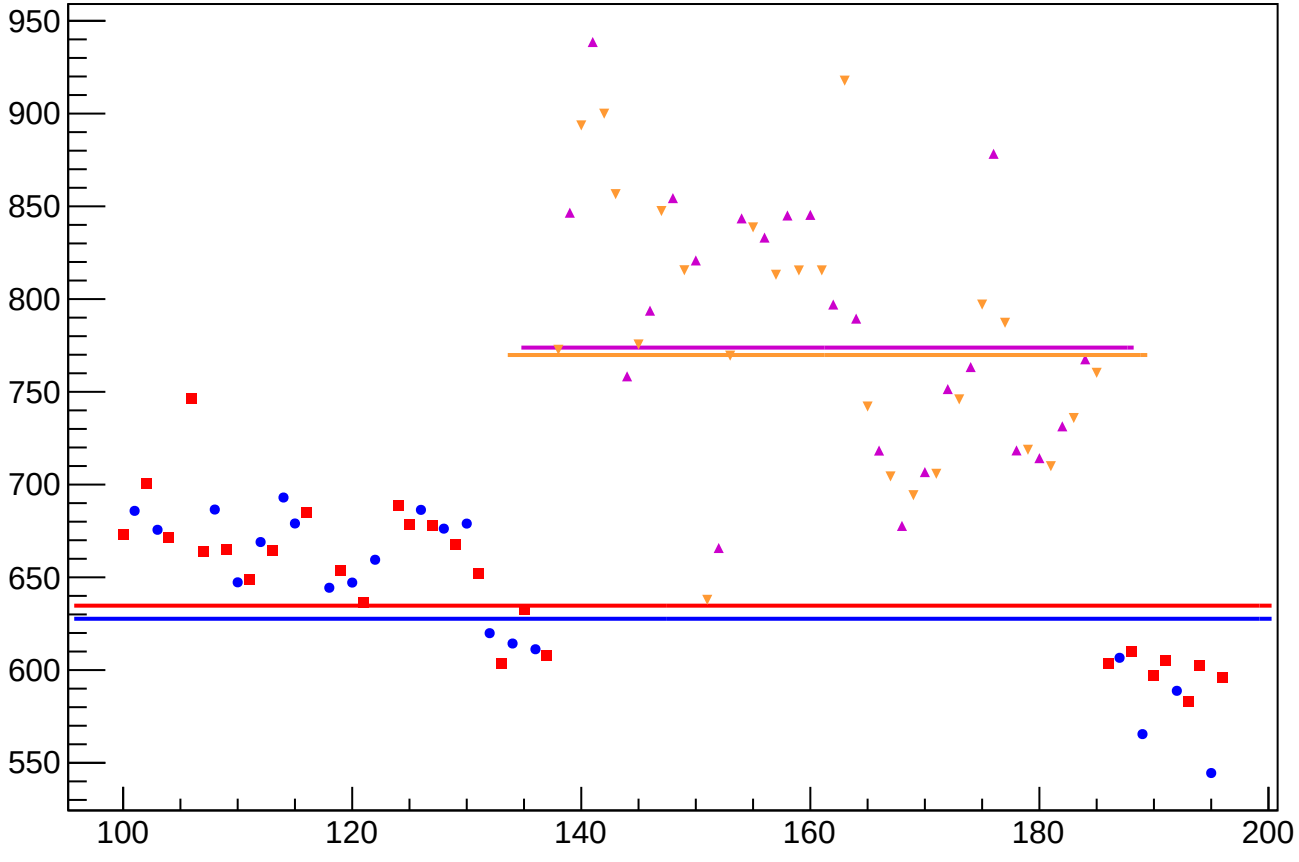
Right: 17.106+/-0.136 $\chi^2$/NDF: 19582.2/45

In: -0.121+/-0.135 $\chi^2$/NDF:45116.9/42

Out: -0.867+/-0.127 $\chi^2$/NDF:14208.1/50

All: -0.517+/-0.093 $\chi^2$/NDF: 59341.2/93

# diff_bpm1i04Y_rms vs Slug, Sign Corrected




Right In: 627.663+/-0.142 $\chi^2$/NDF: 113290.9/19

Left Out: 769.850+/-0.124 $\chi^2$/NDF:304526.6/24

Right Out: 634.728+/-0.130 $\chi^2$/NDF: 86282.7/25

Left In: 773.845+/-0.129 $\chi^2$/NDF:282843.1/22

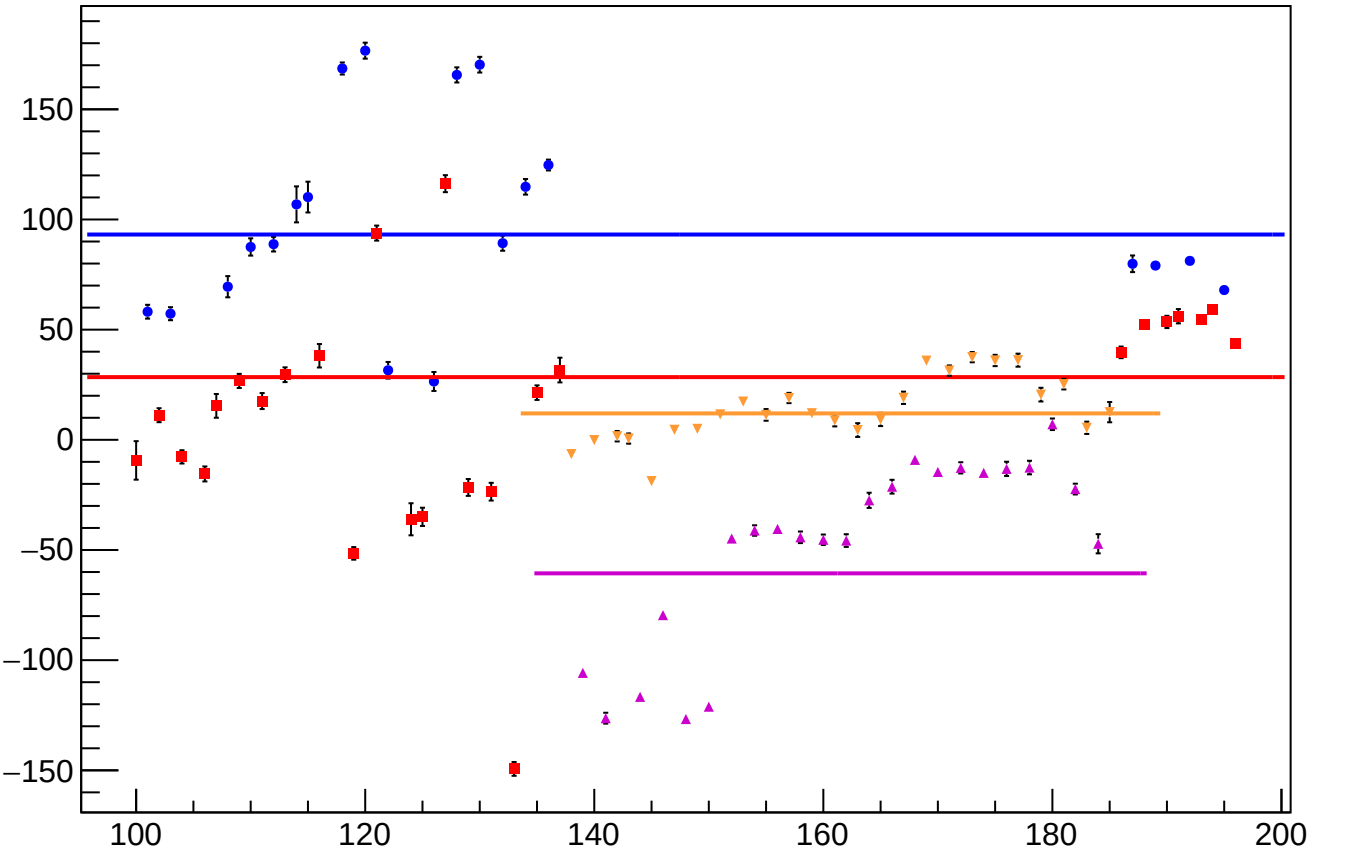
Left: 771.781+/-0.089 $\chi^2$/NDF: 587867.8/47

Right: 631.516+/-0.096 $\chi^2$/NDF: 200917.2/45

In: 708.120+/-0.095 $\chi^2$/NDF:976654.2/42

Out: 705.200+/-0.090 $\chi^2$/NDF:954833.2/50

All: 706.572+/-0.065 $\chi^2$/NDF: 1931983.4/93




Right In: 93.174+/-0.653 $\chi^2$/NDF: 3572.8/19

Left Out: 11.989+/-0.472 $\chi^2$/NDF:947.1/24

Right Out: 28.459+/-0.575 $\chi^2$/NDF: 6909.1/25

Left In: -60.598+/-0.481 $\chi^2$/NDF:8638.1/22

Left: -23.591+/-0.337 $\chi^2$/NDF: 21200.1/47

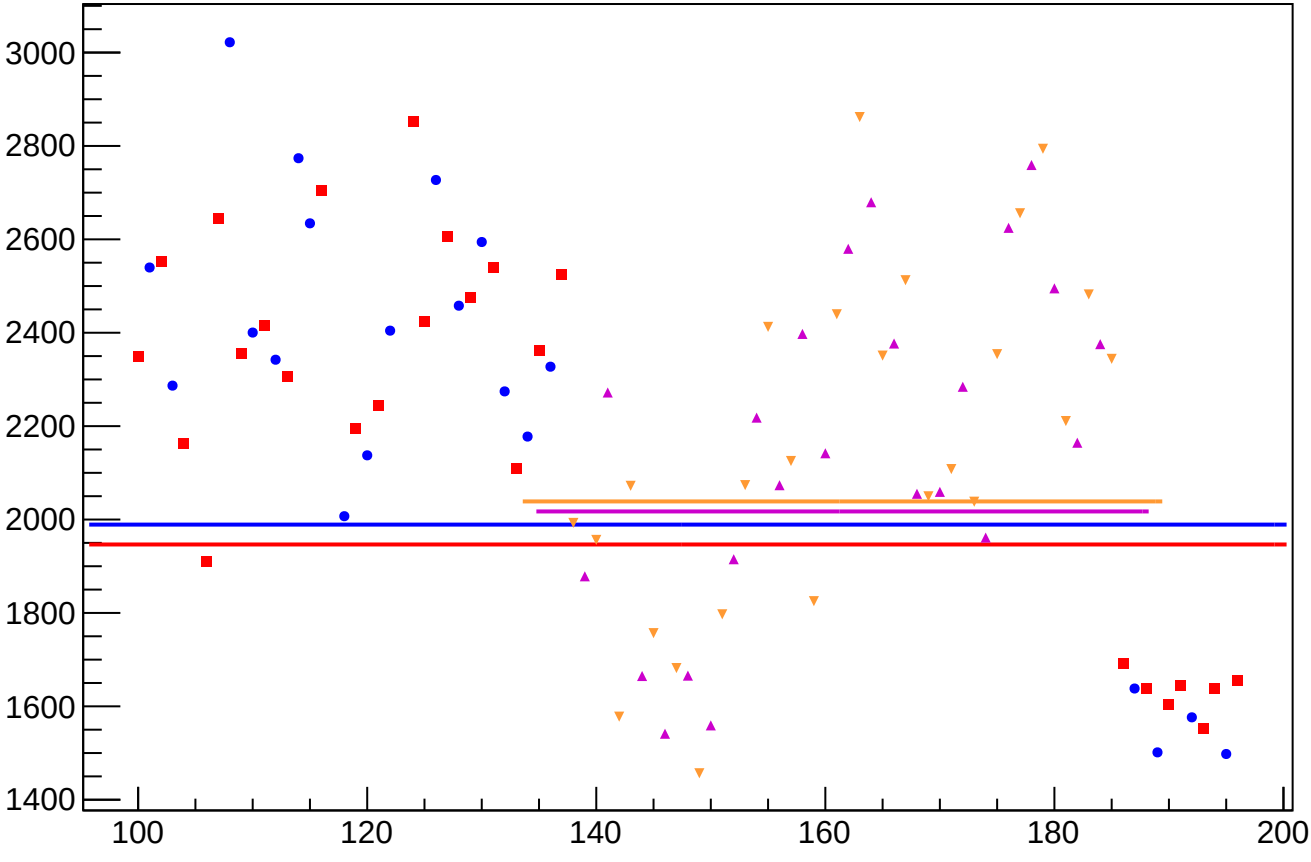
Right: 56.679+/-0.431 $\chi^2$/NDF: 16014.4/45

In: -6.564+/-0.387 $\chi^2$/NDF:48137.4/42

Out: 18.618+/-0.364 $\chi^2$/NDF:8347.2/50

All: 6.790+/-0.265 $\chi^2$/NDF: 58726.4/93

# diff_bpm1i06X_rms vs Slug, Sign Corrected




Right In: 1989.155+/-0.462 $\chi^2$/NDF: 933804.9/19

Left Out: 2038.784+/-0.333 $\chi^2$/NDF:1123518.3/24

Right Out: 1946.590+/-0.406 $\chi^2$/NDF: 885331.3/25

Left In: 2017.328+/-0.340 $\chi^2$/NDF:1050043.3/22

Left: 2028.267+/-0.238 $\chi^2$/NDF: 2175591.3/47

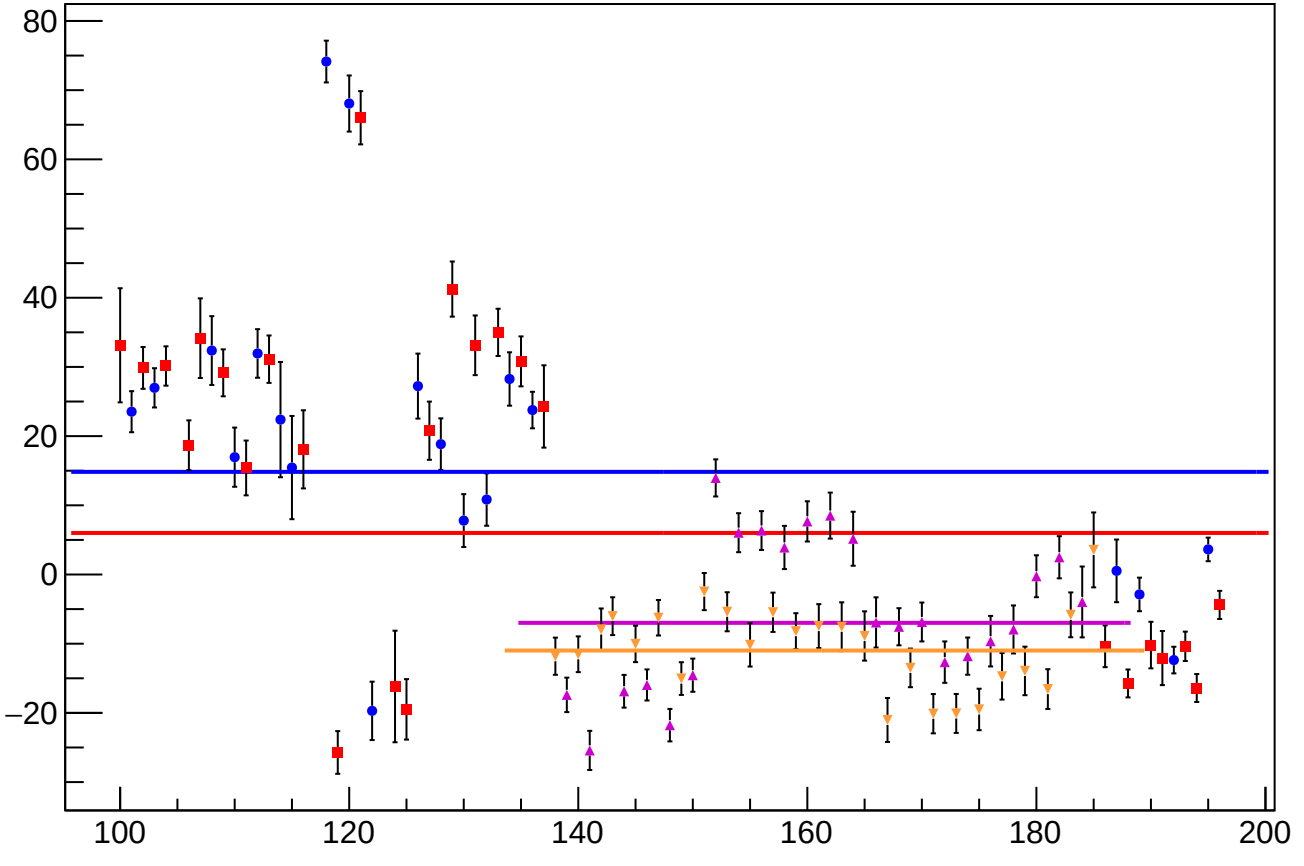
Right: 1965.151+/-0.305 $\chi^2$/NDF: 1823923.0/45

In: 2007.428+/-0.274 $\chi^2$/NDF:1986260.0/42

Out: 2001.677+/-0.258 $\chi^2$/NDF:2039620.5/50

All: 2004.378+/-0.188 $\chi^2$/NDF: 4026114.4/93

# diff_bpm1i06Y_mean vs Slug, Sign Corrected




Right In: 14.835+/-0.712 $\chi^2$/NDF: 1031.9/19

Left Out: -10.985+/-0.586 $\chi^2$/NDF:87.6/24

Right Out: 6.006+/-0.639 $\chi^2$/NDF: 1341.1/25

Left In: -6.985+/-0.598 $\chi^2$/NDF:339.5/22

Left: -9.027+/-0.419 $\chi^2$/NDF: 449.9/47

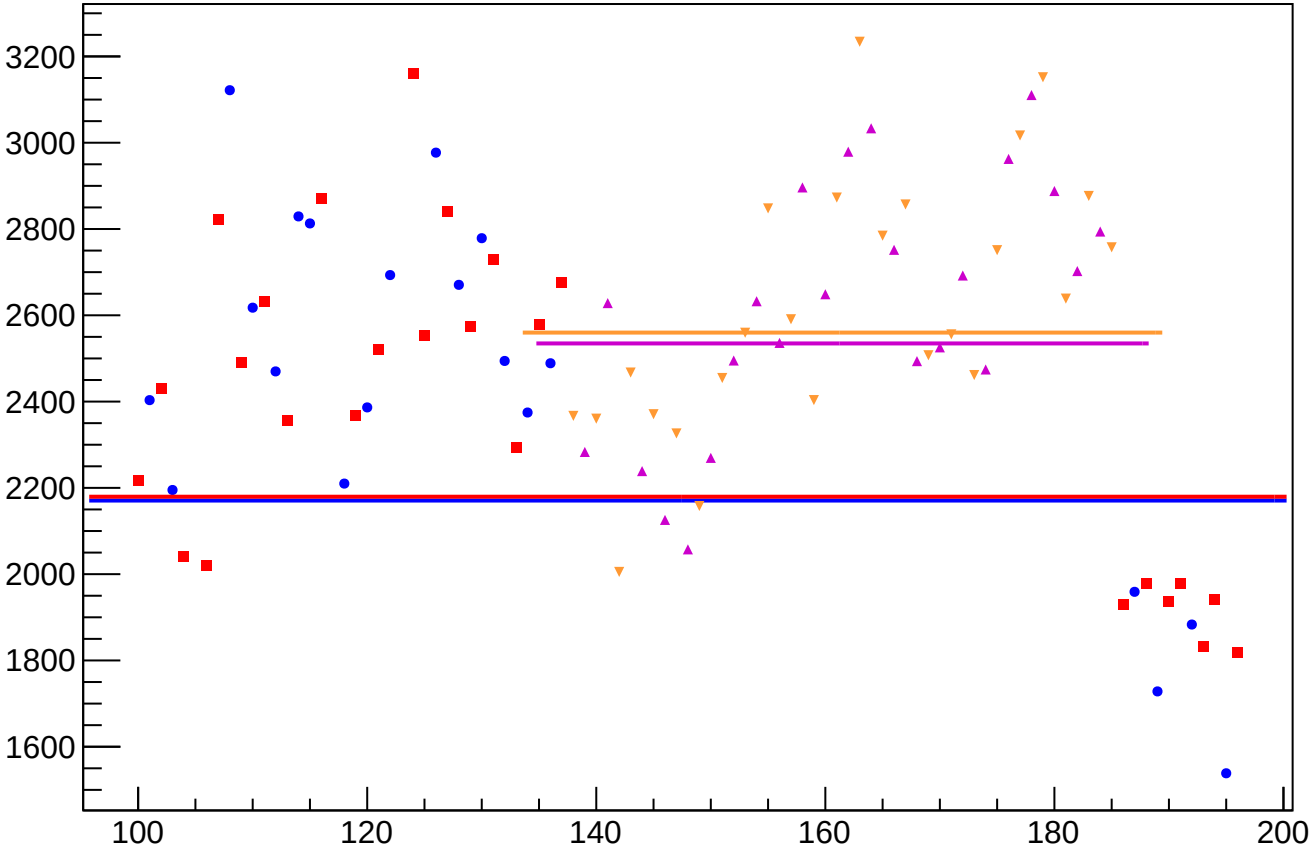
Right: 9.947+/-0.476 $\chi^2$/NDF: 2458.2/45

In: 2.048+/-0.458 $\chi^2$/NDF:1921.7/42

Out: -3.229+/-0.432 $\chi^2$/NDF:1812.6/50

All: -0.746+/-0.314 $\chi^2$/NDF: 3804.6/93

# diff_bpm1i06Y_rms vs Slug, Sign Corrected




Right In: 2170.624+/-0.503 $\chi^2$/NDF: 771462.1/19

Left Out: 2559.931+/-0.414 $\chi^2$/NDF:450188.5/24

Right Out: 2179.496+/-0.452 $\chi^2$/NDF: 528955.9/25

Left In: 2534.780+/-0.423 $\chi^2$/NDF:463621.9/22

Left: 2547.623+/-0.296 $\chi^2$/NDF: 915614.3/47

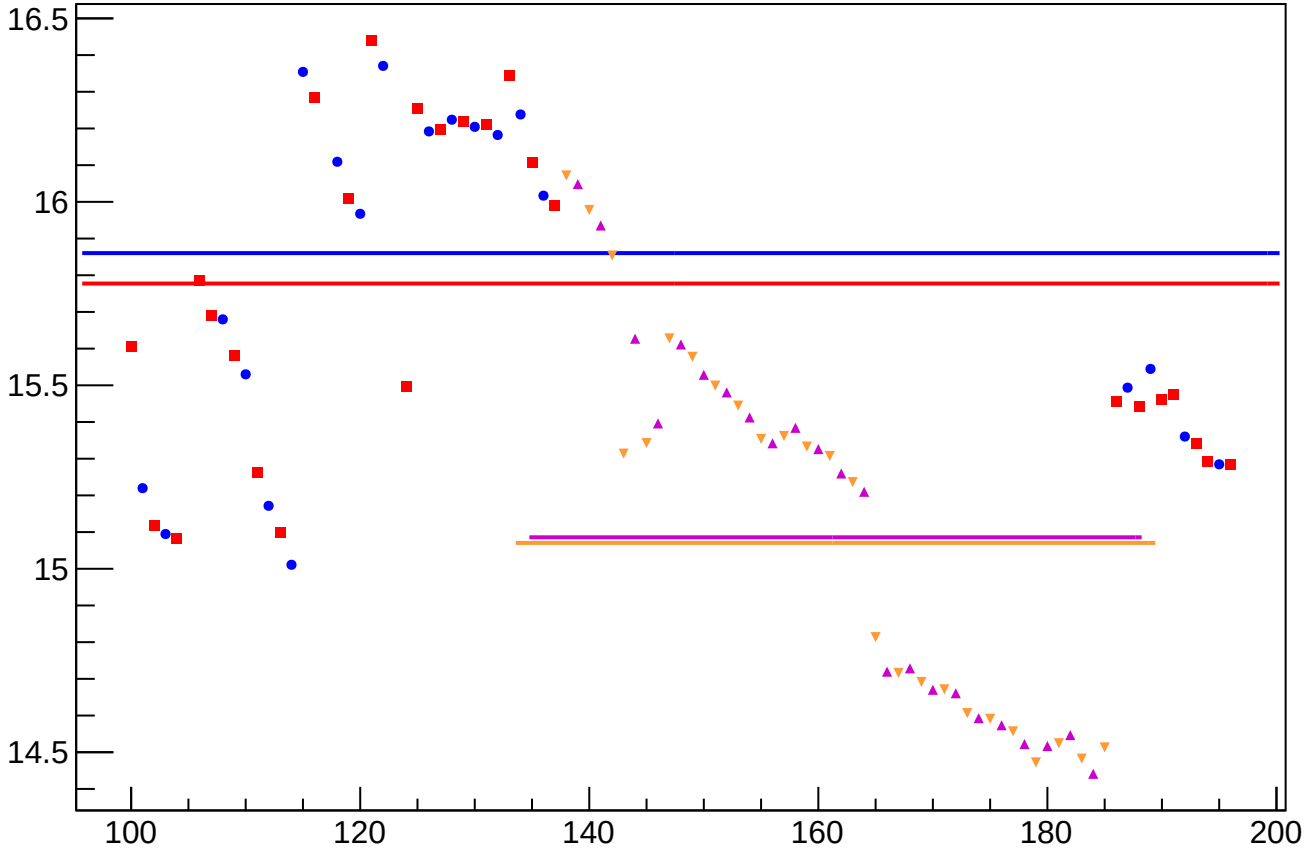
Right: 2175.536+/-0.336 $\chi^2$/NDF: 1300589.9/45

In: 2384.026+/-0.324 $\chi^2$/NDF:1541641.1/42

Out: 2386.275+/-0.305 $\chi^2$/NDF:1364062.7/50

All: 2385.217+/-0.222 $\chi^2$/NDF: 2905729.4/93

# yield_sam1_mean vs Slug, Sign Corrected




Right In: 15.860+/-0.000 $\chi^2$/NDF: 7418546590.2/19

Left Out: 15.070+/-0.000 $\chi^2$/NDF:43718295237.2/24

Right Out: 15.777+/-0.000 $\chi^2$/NDF: 9323163661.0/25

Left In: 15.086+/-0.000 $\chi^2$/NDF:39504896066.7/22

Left: 15.078+/-0.000 $\chi^2$/NDF: 83242630627.9/47

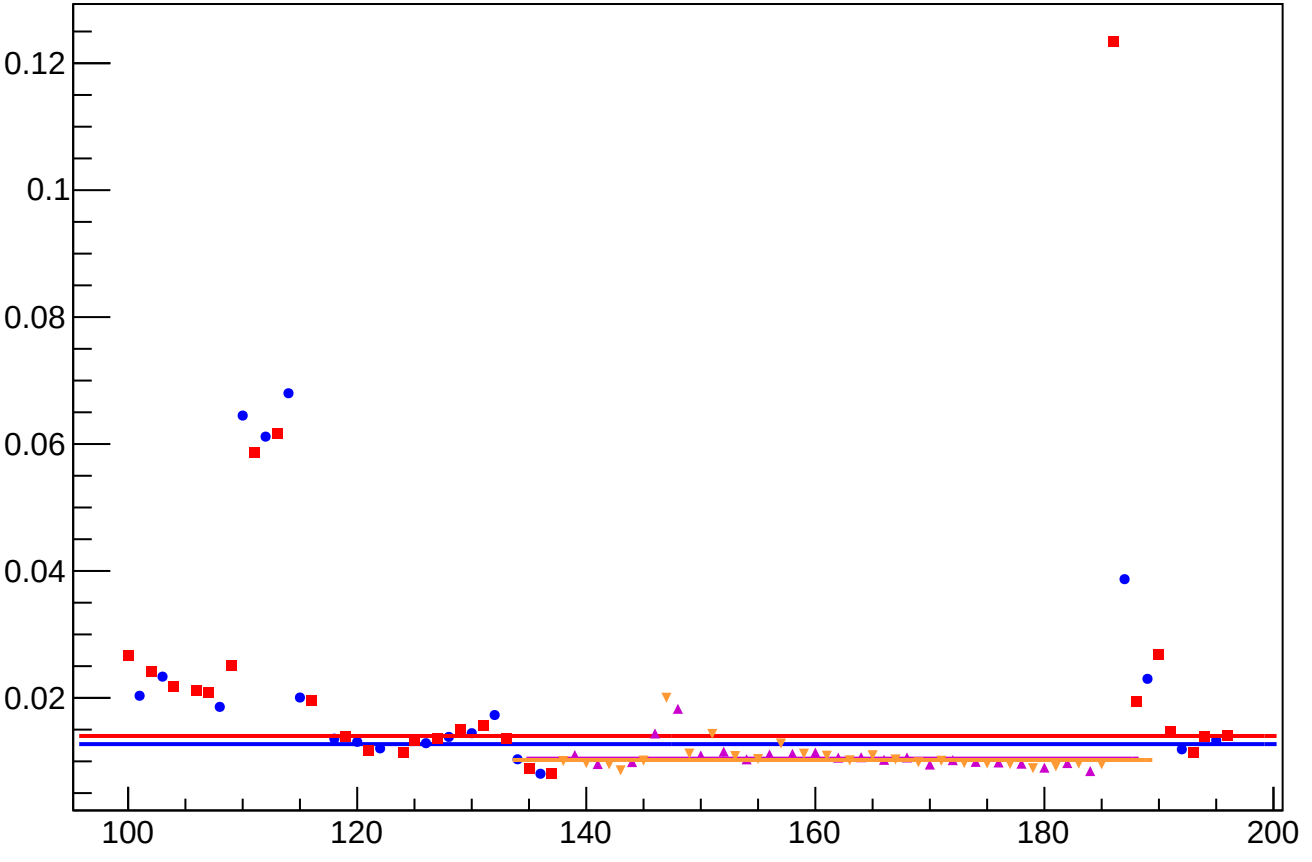
Right: 15.819+/-0.000 $\chi^2$/NDF: 16908194218.2/45

In: 15.267+/-0.000 $\chi^2$/NDF:69092248621.4/42

Out: 15.225+/-0.000 $\chi^2$/NDF:72024292114.2/50

All: 15.245+/-0.000 $\chi^2$/NDF: 141306016061.

# yield_sam1_rms vs Slug, Sign Corrected




Right In: 0.013+/-0.000 $\chi^2$/NDF: 2696372.0/19

Left Out: 0.010+/-0.000 $\chi^2$/NDF:760322.0/24

Right Out: 0.014+/-0.000 $\chi^2$/NDF: 3220661.0/25

Left In: 0.010+/-0.000 $\chi^2$/NDF:597752.6/22

Left: 0.010+/-0.000 $\chi^2$/NDF: 1365448.4/47

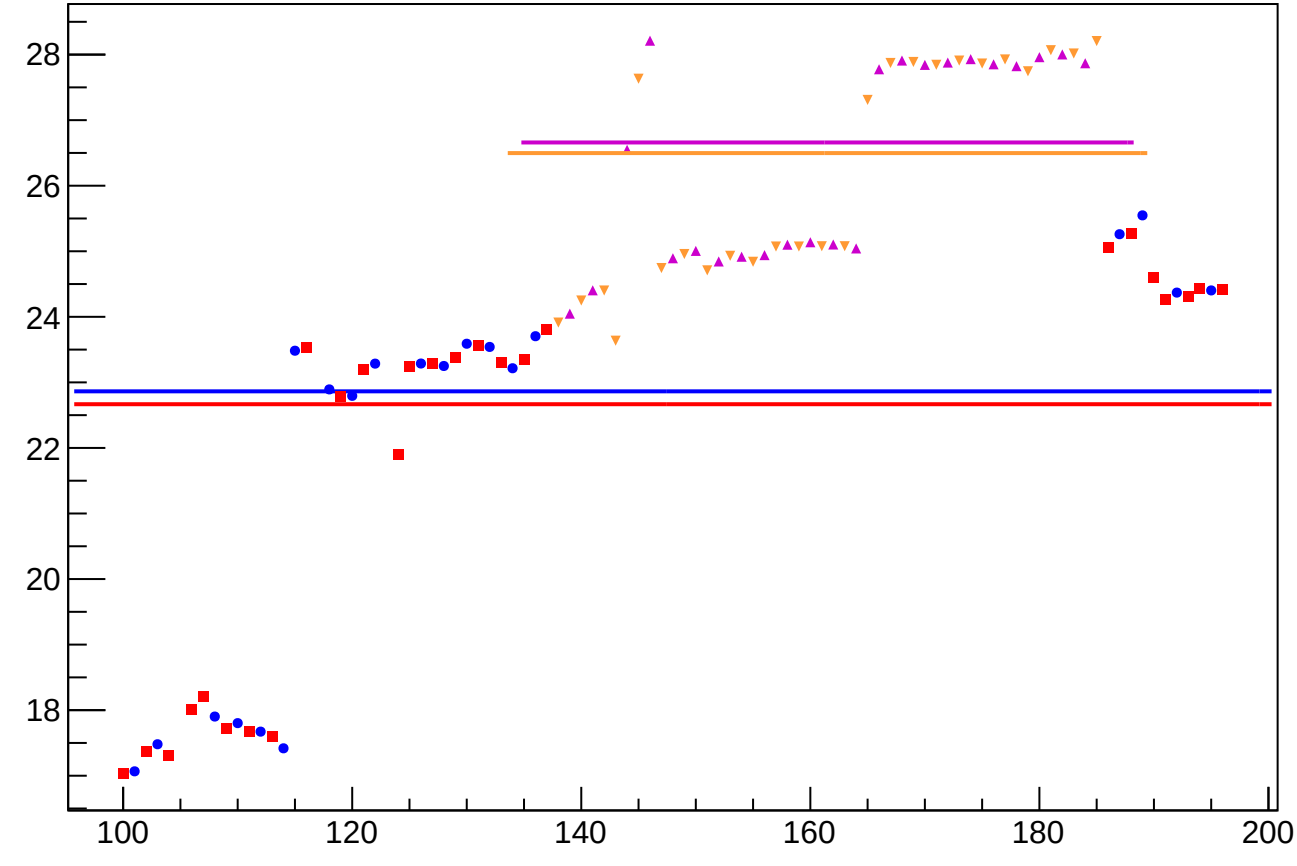
Right: 0.013+/-0.000 $\chi^2$/NDF: 5996656.5/45

In: 0.011+/-0.000 $\chi^2$/NDF:3681231.1/42

Out: 0.011+/-0.000 $\chi^2$/NDF:5067561.9/50

All: 0.011+/-0.000 $\chi^2$/NDF: 8750159.0/93

# yield_sam2_mean vs Slug, Sign Corrected




Right In: 22.863+/-0.000 $\chi^2$/NDF: 1315913284.9/19

Left Out: 26.498+/-0.000 $\chi^2$/NDF:3909357236.5/24

Right Out: 22.667+/-0.000 $\chi^2$/NDF: 1415144580.5/25

Left In: 26.660+/-0.000 $\chi^2$/NDF:2886823196.4/22

Left: 26.575+/-0.000 $\chi^2$/NDF: 6814787304.8/47

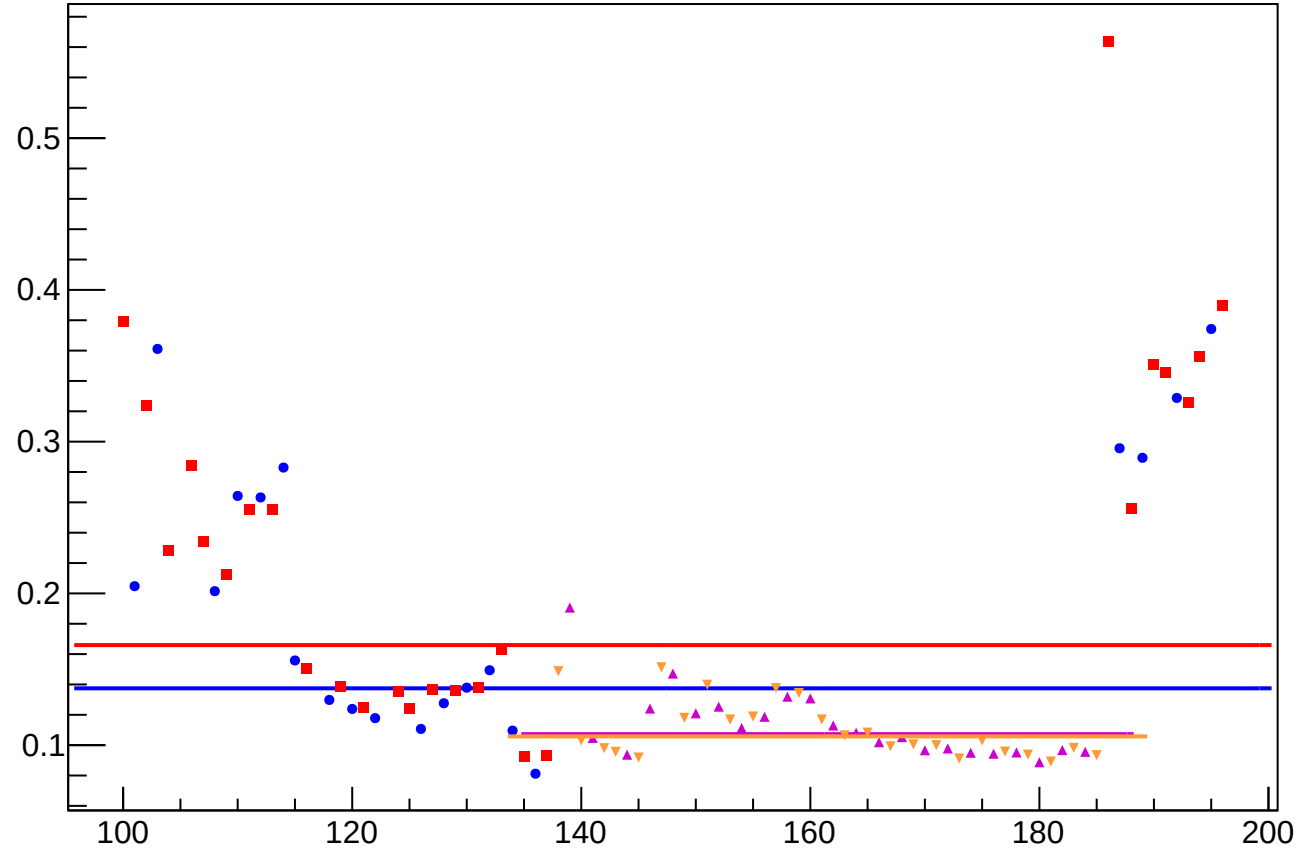
Right: 22.772+/-0.000 $\chi^2$/NDF: 2737639719.5/45

In: 25.854+/-0.000 $\chi^2$/NDF:8363727884.5/42

Out: 25.819+/-0.000 $\chi^2$/NDF:9178606222.4/50

All: 25.836+/-0.000 $\chi^2$/NDF: 17543384778.7

# yield_sam2_rms vs Slug, Sign Corrected




Right In: 0.137+/-0.000 $\chi^2$/NDF: 3565883.2/19

Left Out: 0.106+/-0.000 $\chi^2$/NDF:756185.0/24

Right Out: 0.166+/-0.000 $\chi^2$/NDF: 4203794.7/25

Left In: 0.107+/-0.000 $\chi^2$/NDF:859458.3/22

Left: 0.106+/-0.000 $\chi^2$/NDF: 1618736.7/47

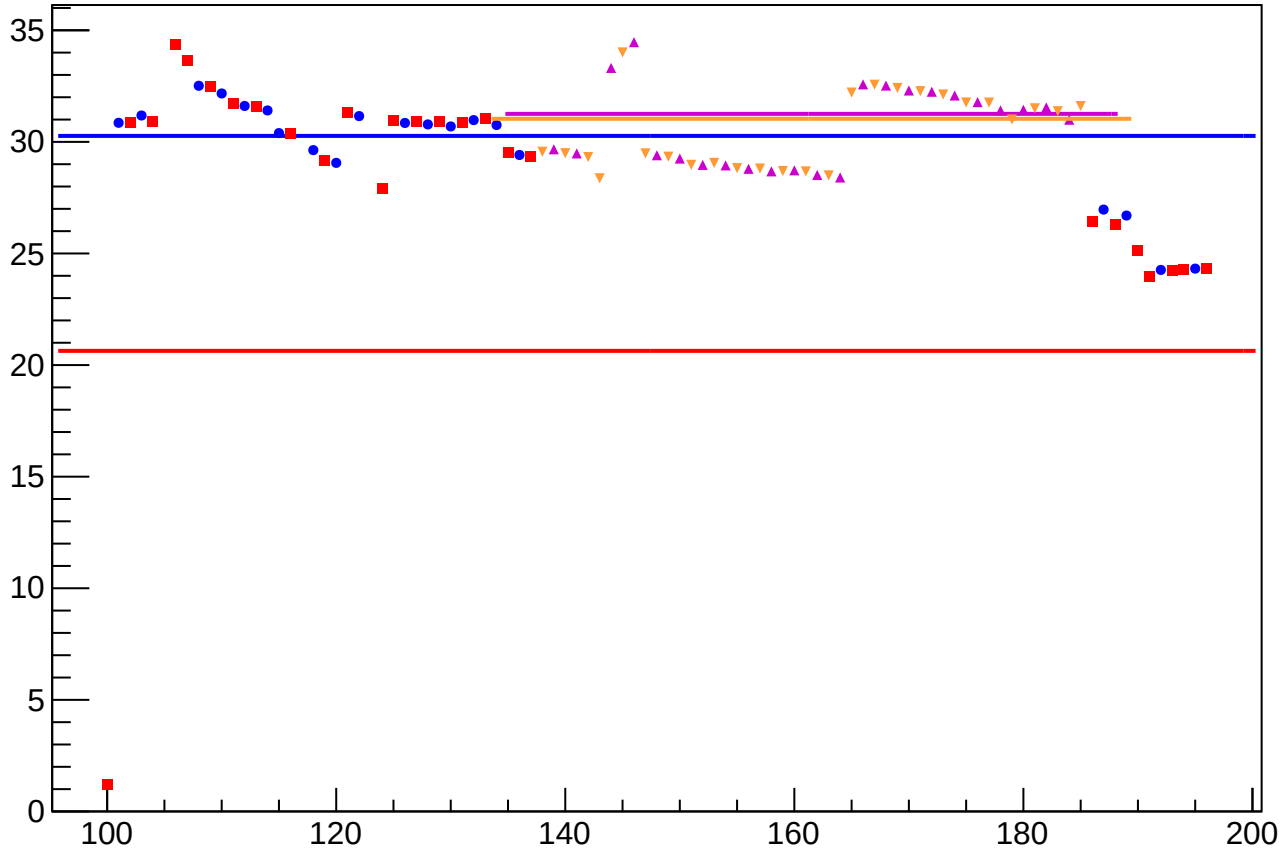
Right: 0.151+/-0.000 $\chi^2$/NDF: 8046443.5/45

In: 0.114+/-0.000 $\chi^2$/NDF:4952062.0/42

Out: 0.116+/-0.000 $\chi^2$/NDF:6861006.5/50

All: 0.115+/-0.000 $\chi^2$/NDF: 11826563.4/93

# yield_sam3_mean vs Slug, Sign Corrected




Right In: 30.268+/-0.000 $\chi^2$/NDF: 2001779227.7/19

Left Out: 31.035+/-0.000 $\chi^2$/NDF:11897463221.2/24

Right Out: 20.637+/-0.000 $\chi^2$/NDF: 223654889533.2/25

Left In: 31.256+/-0.000 $\chi^2$/NDF:12589744083.0/22

Left: 31.143+/-0.000 $\chi^2$/NDF: 24589664395.0/47

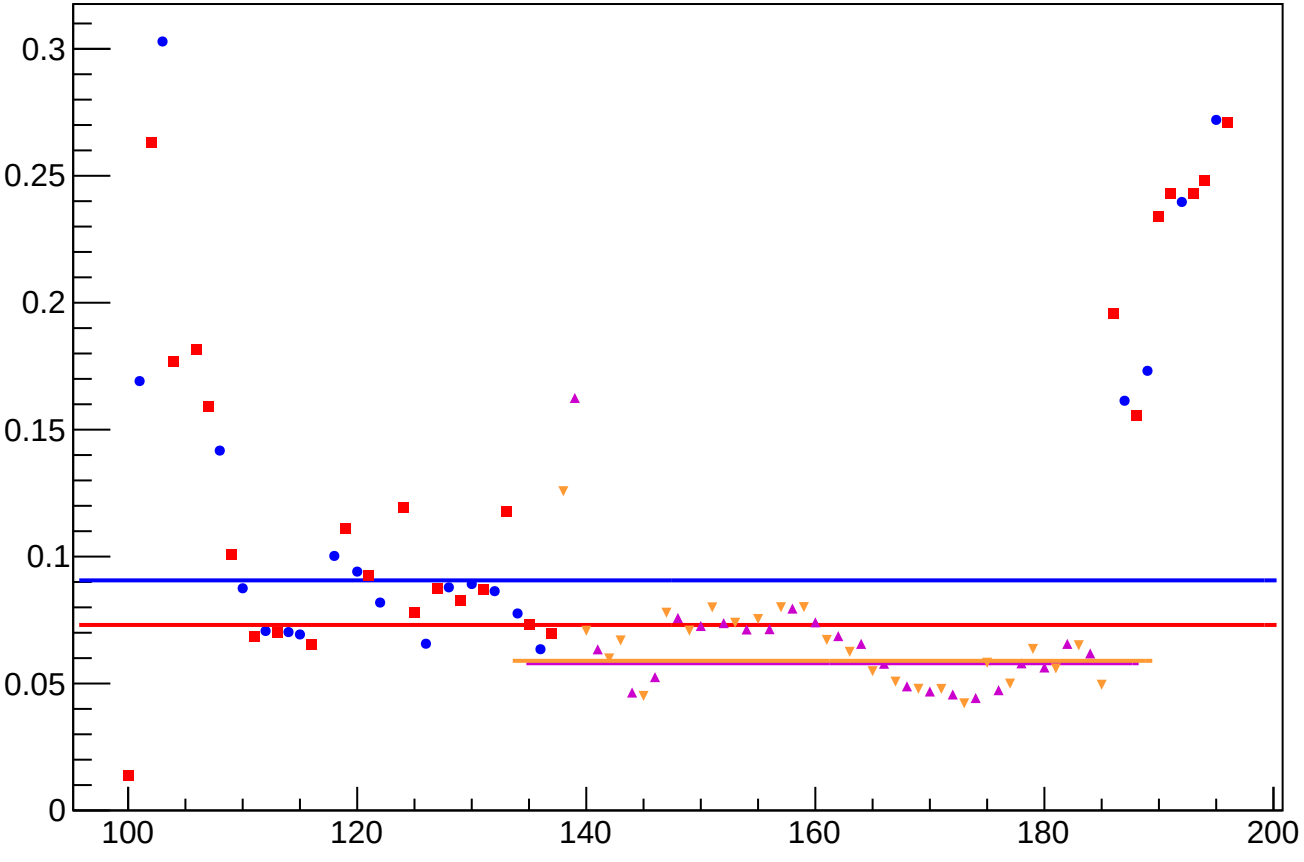
Right: 24.590+/-0.000 $\chi^2$/NDF: 270727652801.9/45

In: 31.091+/-0.000 $\chi^2$/NDF:15261937033.5/42

Out: 28.783+/-0.000 $\chi^2$/NDF:335828185297.0/50

All: 29.880+/-0.000 $\chi^2$/NDF: 364926682190.

# yield_sam3_rms vs Slug, Sign Corrected




Right In: 0.091+/-0.000 $\chi^2$/NDF: 3124800.2/19

Left Out: 0.059+/-0.000 $\chi^2$/NDF:1536601.0/24

Right Out: 0.073+/-0.000 $\chi^2$/NDF: 8157787.6/25

Left In: 0.058+/-0.000 $\chi^2$/NDF:1716553.7/22

Left: 0.058+/-0.000 $\chi^2$/NDF: 3257018.5/47

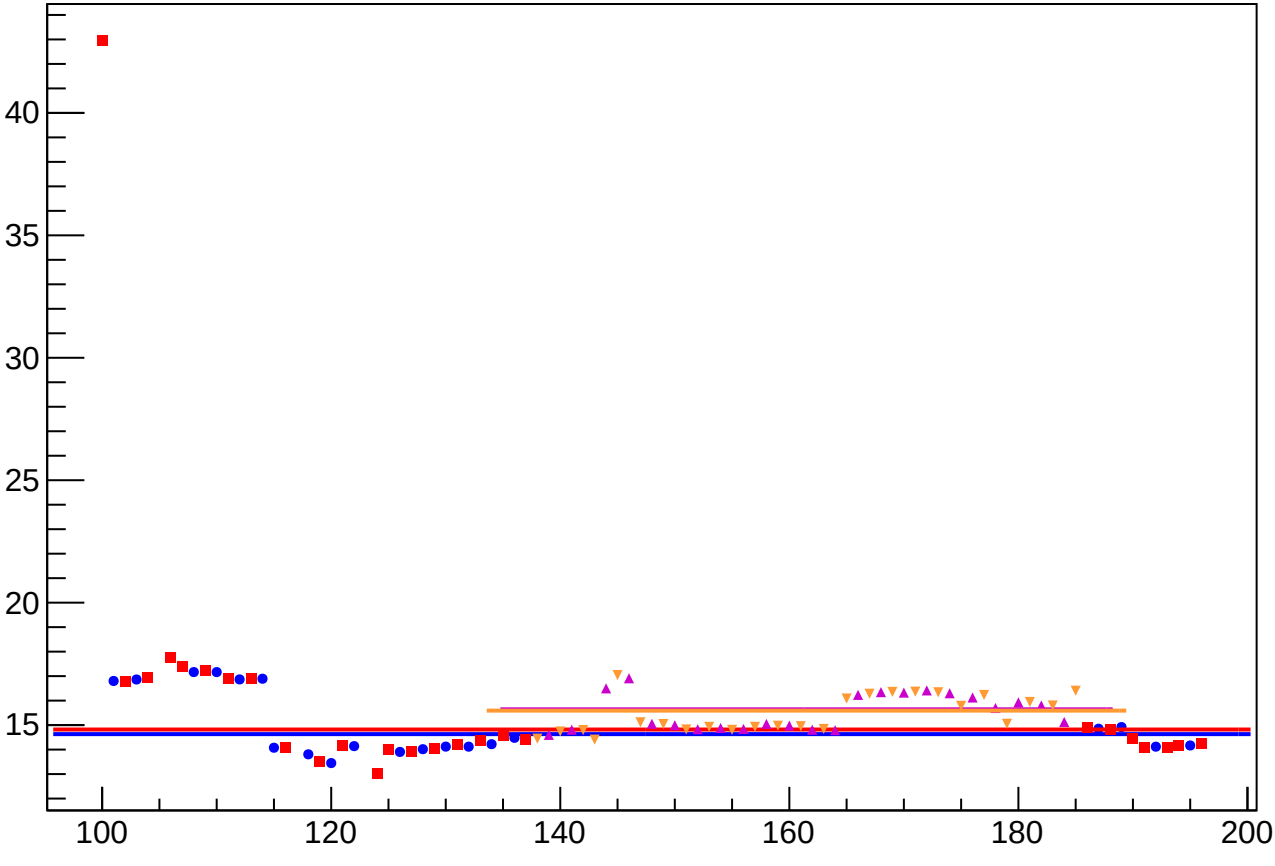
Right: 0.080+/-0.000 $\chi^2$/NDF: 11582183.8/45

In: 0.063+/-0.000 $\chi^2$/NDF:6305640.4/42

Out: 0.062+/-0.000 $\chi^2$/NDF:10064630.6/50

All: 0.063+/-0.000 $\chi^2$/NDF: 16380705.6/93

# yield_sam4_mean vs Slug, Sign Corrected




Right In: 14.631+/-0.000 $\chi^2$/NDF: 1204447340.1/19

Left Out: 15.591+/-0.000 $\chi^2$/NDF:2257437225.0/24

Right Out: 14.819+/-0.000 $\chi^2$/NDF: 1758445179.8/25

Left In: 15.645+/-0.000 $\chi^2$/NDF:1858454747.6/22

Left: 15.617+/-0.000 $\chi^2$/NDF: 4121246437.2/47

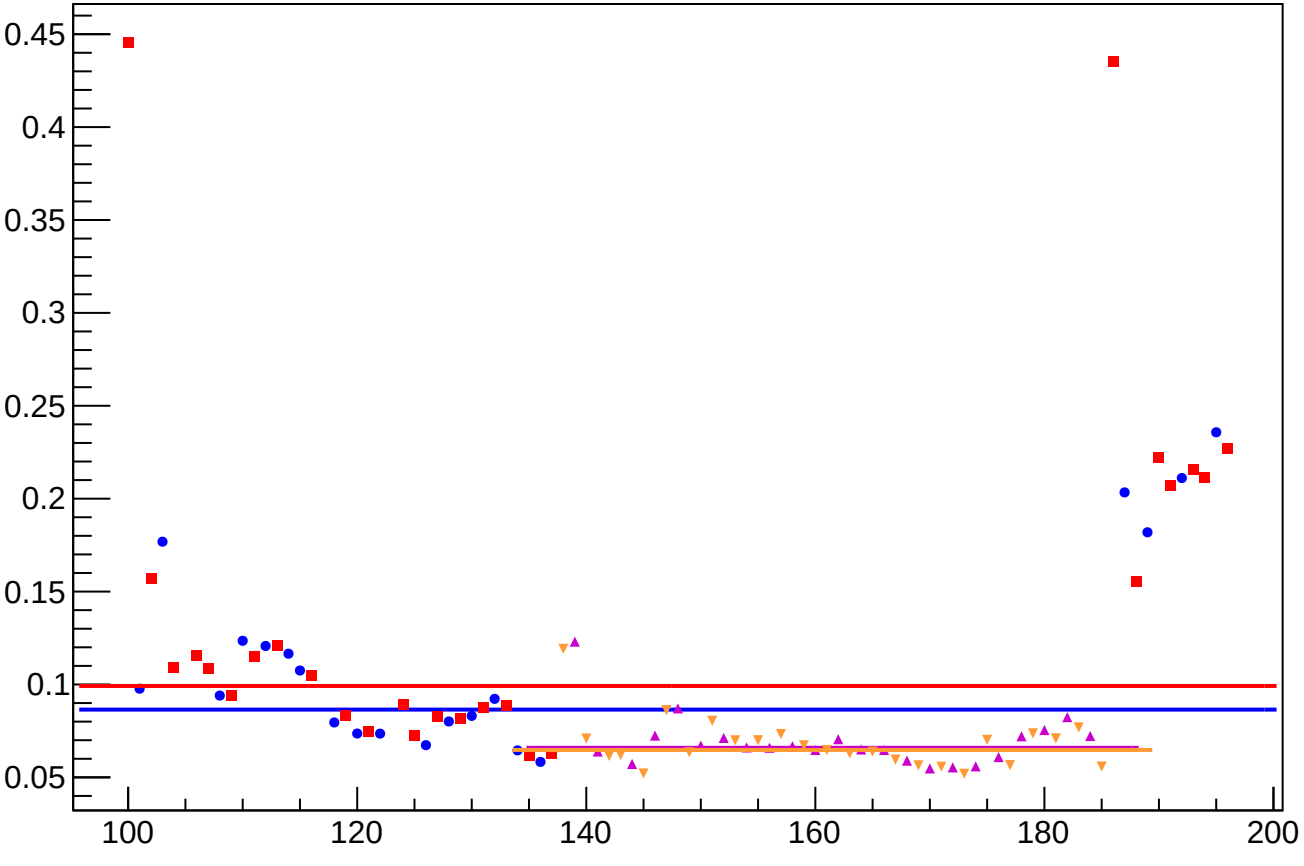
Right: 14.722+/-0.000 $\chi^2$/NDF: 2979888478.2/45

In: 15.424+/-0.000 $\chi^2$/NDF:3862698882.9/42

Out: 15.443+/-0.000 $\chi^2$/NDF:4461375849.6/50

All: 15.434+/-0.000 $\chi^2$/NDF: 8324942739.6/9

# yield_sam4_rms vs Slug, Sign Corrected




Right In: 0.086+/-0.000 $\chi^2$/NDF: 2754348.8/19

Left Out: 0.065+/-0.000 $\chi^2$/NDF:855753.3/24

Right Out: 0.099+/-0.000 $\chi^2$/NDF: 3542155.4/25

Left In: 0.066+/-0.000 $\chi^2$/NDF:788235.2/22

Left: 0.065+/-0.000 $\chi^2$/NDF: 1648838.5/47

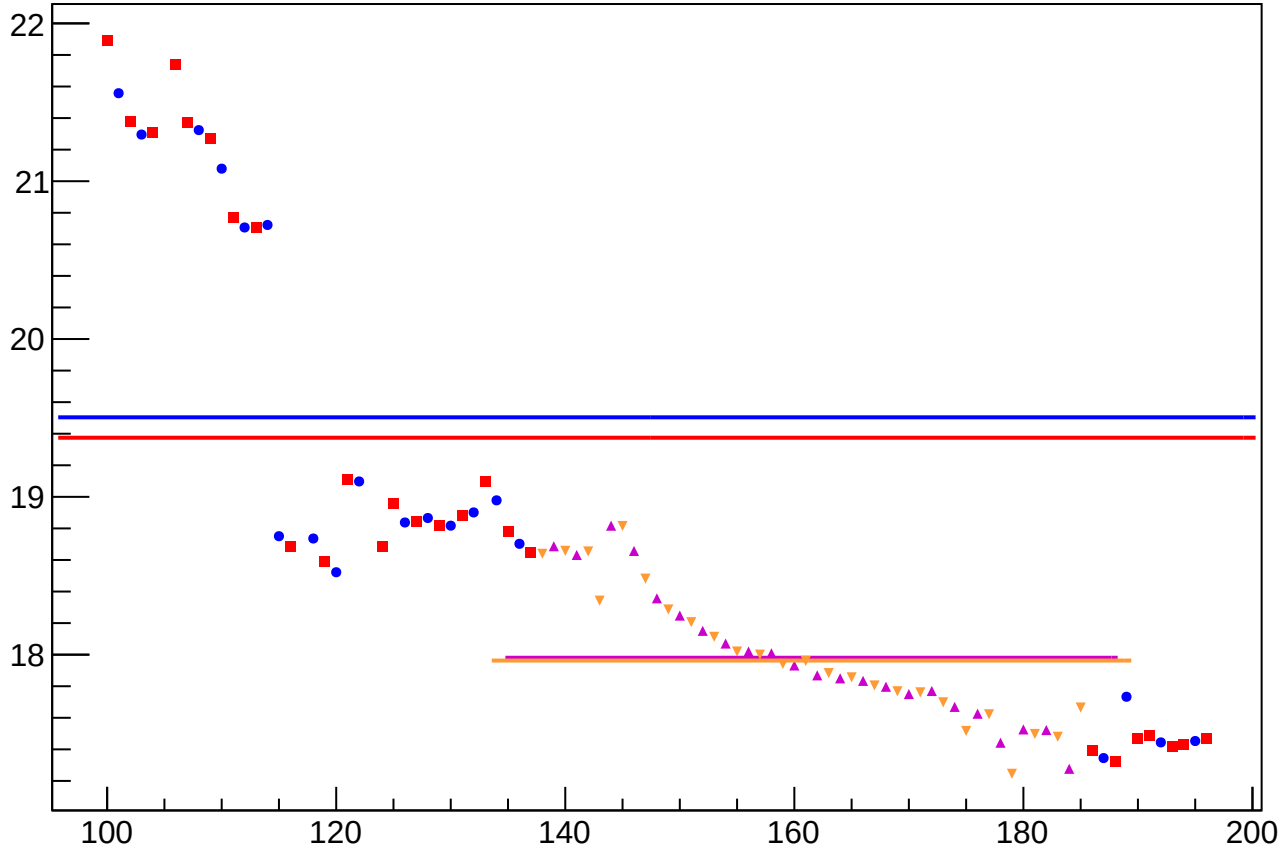
Right: 0.093+/-0.000 $\chi^2$/NDF: 6451648.8/45

In: 0.070+/-0.000 $\chi^2$/NDF:4202153.9/42

Out: 0.071+/-0.000 $\chi^2$/NDF:6172545.9/50

All: 0.071+/-0.000 $\chi^2$/NDF: 10379175.3/93

# yield_sam5_mean vs Slug, Sign Corrected




Right In: 19.504+/-0.000 $\chi^2$/NDF: 19028145804.9/19

Left Out: 17.963+/-0.000 $\chi^2$/NDF:3041551307.2/24

Right Out: 19.375+/-0.000 $\chi^2$/NDF: 24766713770.8/25

Left In: 17.980+/-0.000 $\chi^2$/NDF:2720441956.8/22

Left: 17.971+/-0.000 $\chi^2$/NDF: 5764899395.7/47

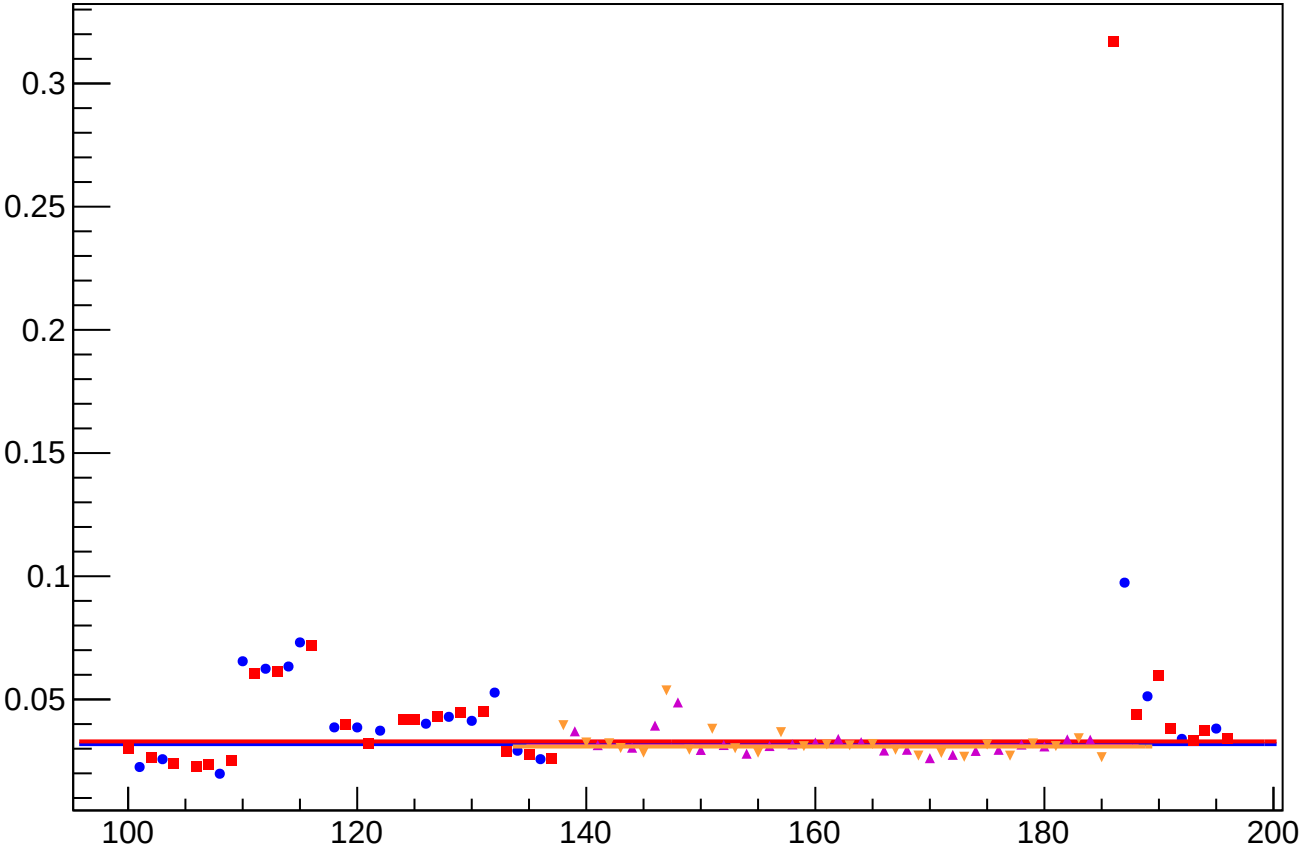
Right: 19.435+/-0.000 $\chi^2$/NDF: 43866755689.7/45

In: 18.455+/-0.000 $\chi^2$/NDF:34677098940.2/42

Out: 18.420+/-0.000 $\chi^2$/NDF:40196275752.2/50

All: 18.437+/-0.000 $\chi^2$/NDF: 74890250681.2

# yield_sam5_rms vs Slug, Sign Corrected




Right In: 0.032+/-0.000 $\chi^2$/NDF: 1835894.5/19

Left Out: 0.031+/-0.000 $\chi^2$/NDF:633519.6/24

Right Out: 0.033+/-0.000 $\chi^2$/NDF: 2152894.1/25

Left In: 0.031+/-0.000 $\chi^2$/NDF:482919.2/22

Left: 0.031+/-0.000 $\chi^2$/NDF: 1117566.2/47

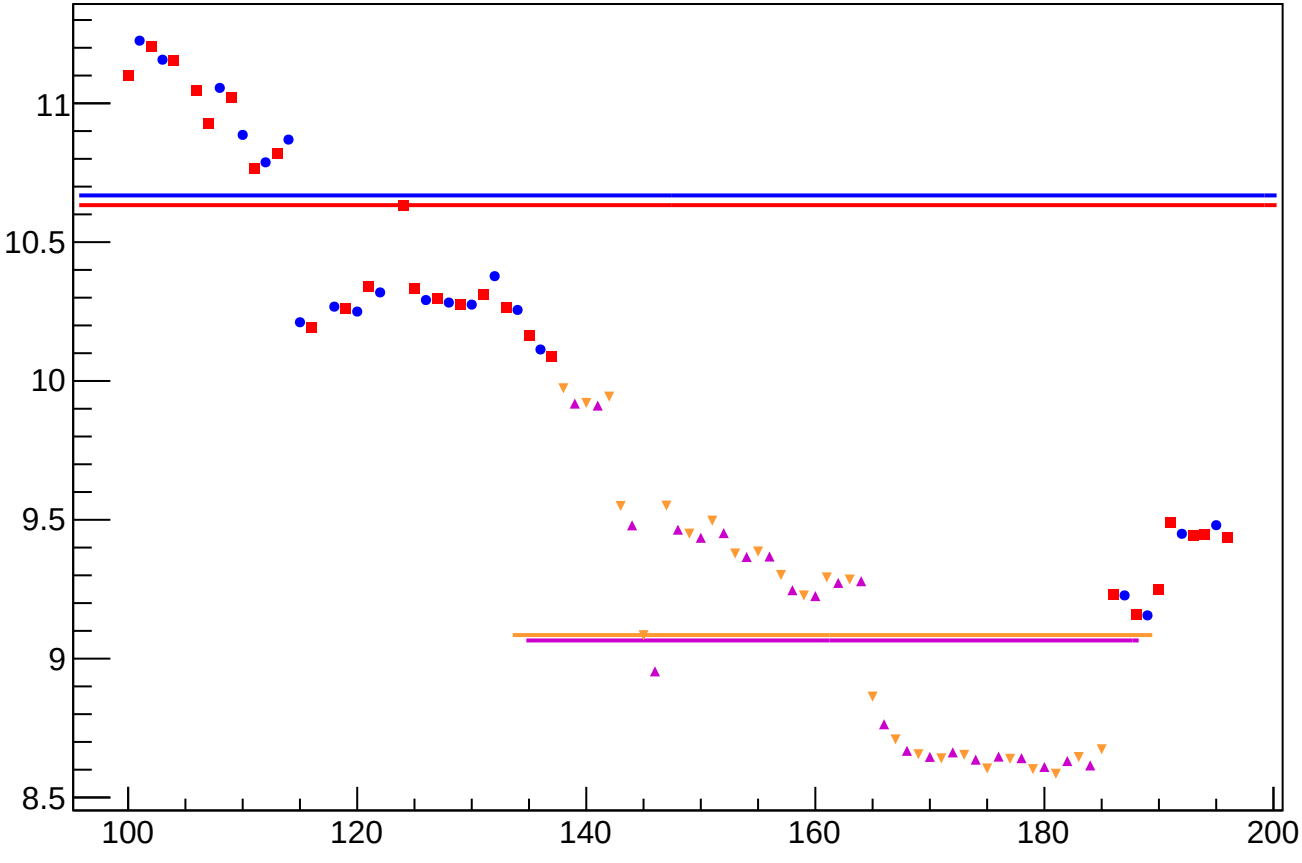
Right: 0.032+/-0.000 $\chi^2$/NDF: 3999088.7/45

In: 0.031+/-0.000 $\chi^2$/NDF:2324710.7/42

Out: 0.032+/-0.000 $\chi^2$/NDF:2839579.3/50

All: 0.031+/-0.000 $\chi^2$/NDF: 5165335.0/93

# yield_sam6_mean vs Slug, Sign Corrected




Right In: 10.668+/-0.000 $\chi^2$/NDF: 8350217855.7/19

Left Out: 9.085+/-0.000 $\chi^2$/NDF:10203625727.4/24

Right Out: 10.633+/-0.000 $\chi^2$/NDF: 8651915311.5/25

Left In: 9.065+/-0.000 $\chi^2$/NDF:8070708662.0/22

Left: 9.076+/-0.000 $\chi^2$/NDF: 18283226528.9/47

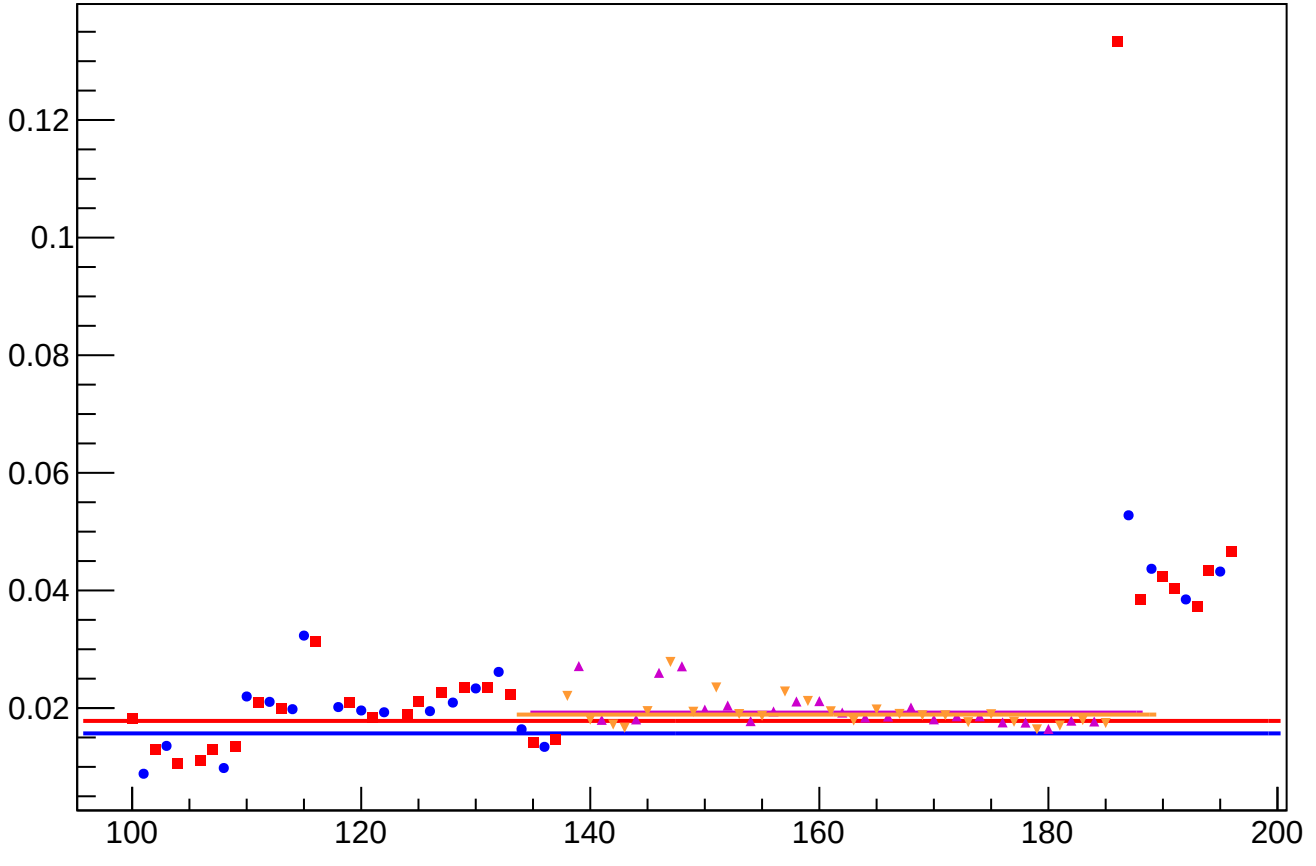
Right: 10.651+/-0.000 $\chi^2$/NDF: 17019588672.6/45

In: 9.696+/-0.000 $\chi^2$/NDF:61683569070.2/42

Out: 9.645+/-0.000 $\chi^2$/NDF:61556466400.3/50

All: 9.670+/-0.000 $\chi^2$/NDF: 123340372262.8

# yield_sam6_rms vs Slug, Sign Corrected




Right In: 0.016+/-0.000 $\chi^2$/NDF: 3537662.4/19

Left Out: 0.019+/-0.000 $\chi^2$/NDF:441360.7/24

Right Out: 0.018+/-0.000 $\chi^2$/NDF: 4483798.5/25

Left In: 0.019+/-0.000 $\chi^2$/NDF:540886.4/22

Left: 0.019+/-0.000 $\chi^2$/NDF: 987575.7/47

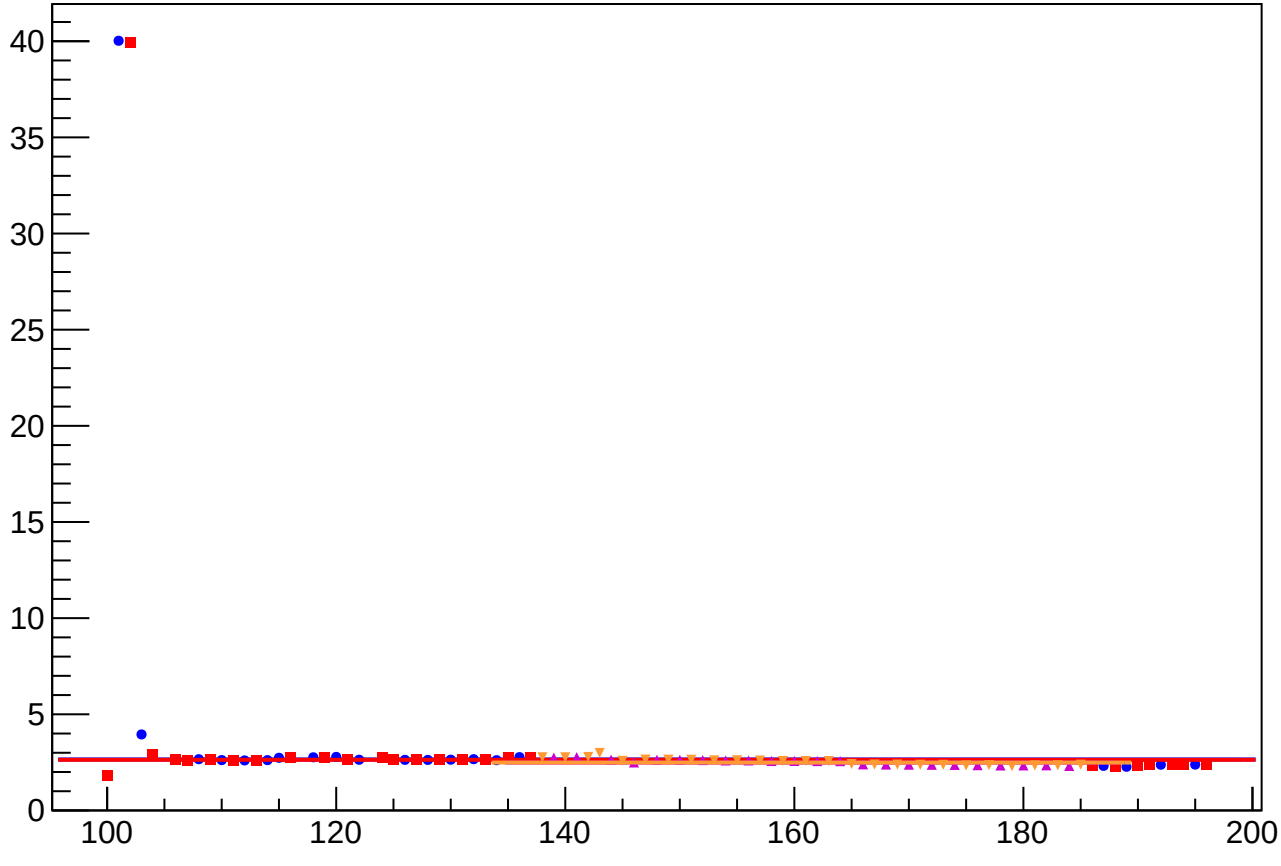
Right: 0.017+/-0.000 $\chi^2$/NDF: 8149530.1/45

In: 0.018+/-0.000 $\chi^2$/NDF:4519594.0/42

Out: 0.019+/-0.000 $\chi^2$/NDF:4966673.8/50

All: 0.018+/-0.000 $\chi^2$/NDF: 9519624.5/93

# yield_sam7_mean vs Slug, Sign Corrected




Right In: 2.652+/-0.000 $\chi^2$/NDF: 73522402747.6/19

Left Out: 2.491+/-0.000 $\chi^2$/NDF:92364283353.6/24

Right Out: 2.634+/-0.000 $\chi^2$/NDF: 75162253902.2/25

Left In: 2.489+/-0.000 $\chi^2$/NDF:61212546319.1/22

Left: 2.490+/-0.000 $\chi^2$/NDF: 153590739615.6/47

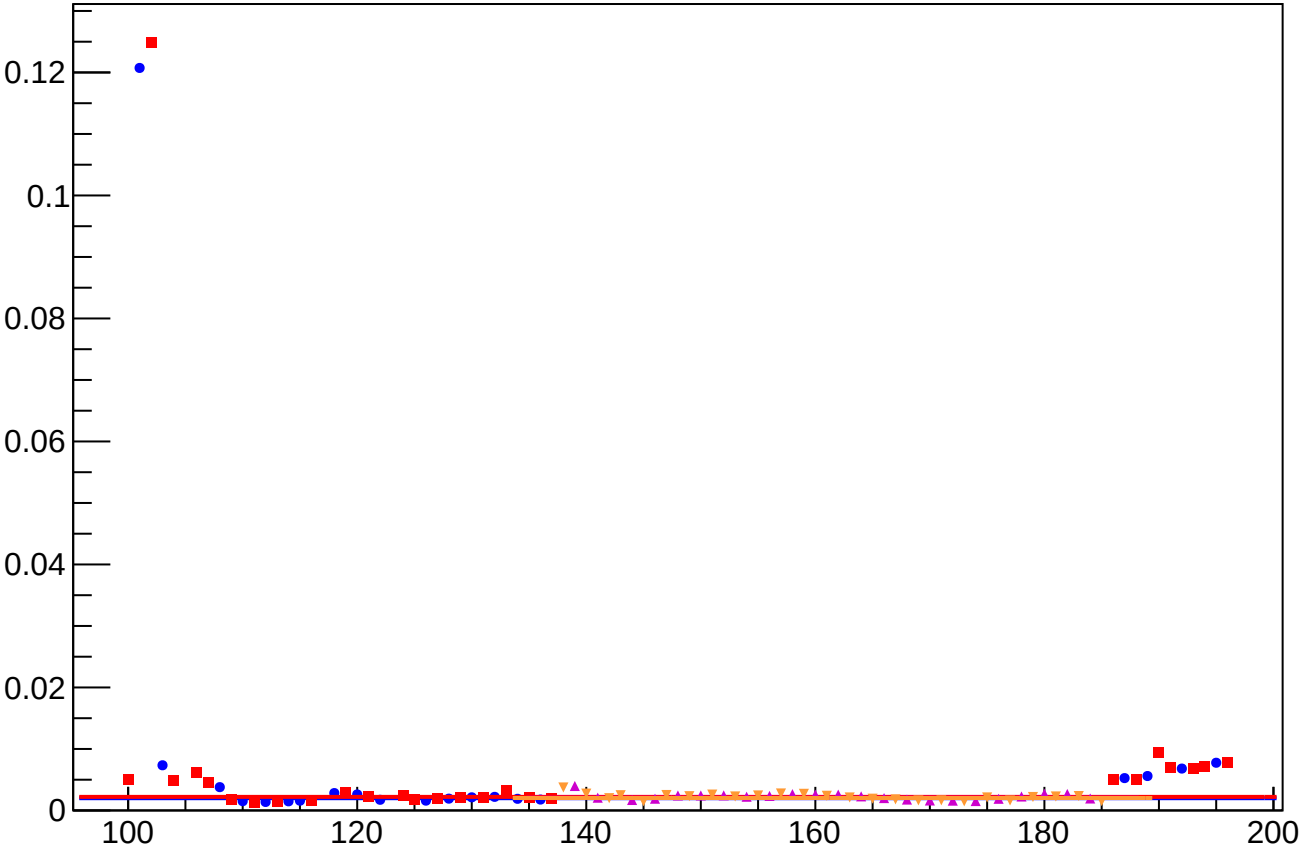
Right: 2.643+/-0.000 $\chi^2$/NDF: 148923262286.5/45

In: 2.538+/-0.000 $\chi^2$/NDF:162535471225.3/42

Out: 2.532+/-0.000 $\chi^2$/NDF:189472967699.9/50

All: 2.535+/-0.000 $\chi^2$/NDF: 352101824738.2

# yield_sam7_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4338353.3/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1556481.5/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 6568754.3/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:1402331.9/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 2965051.2/47

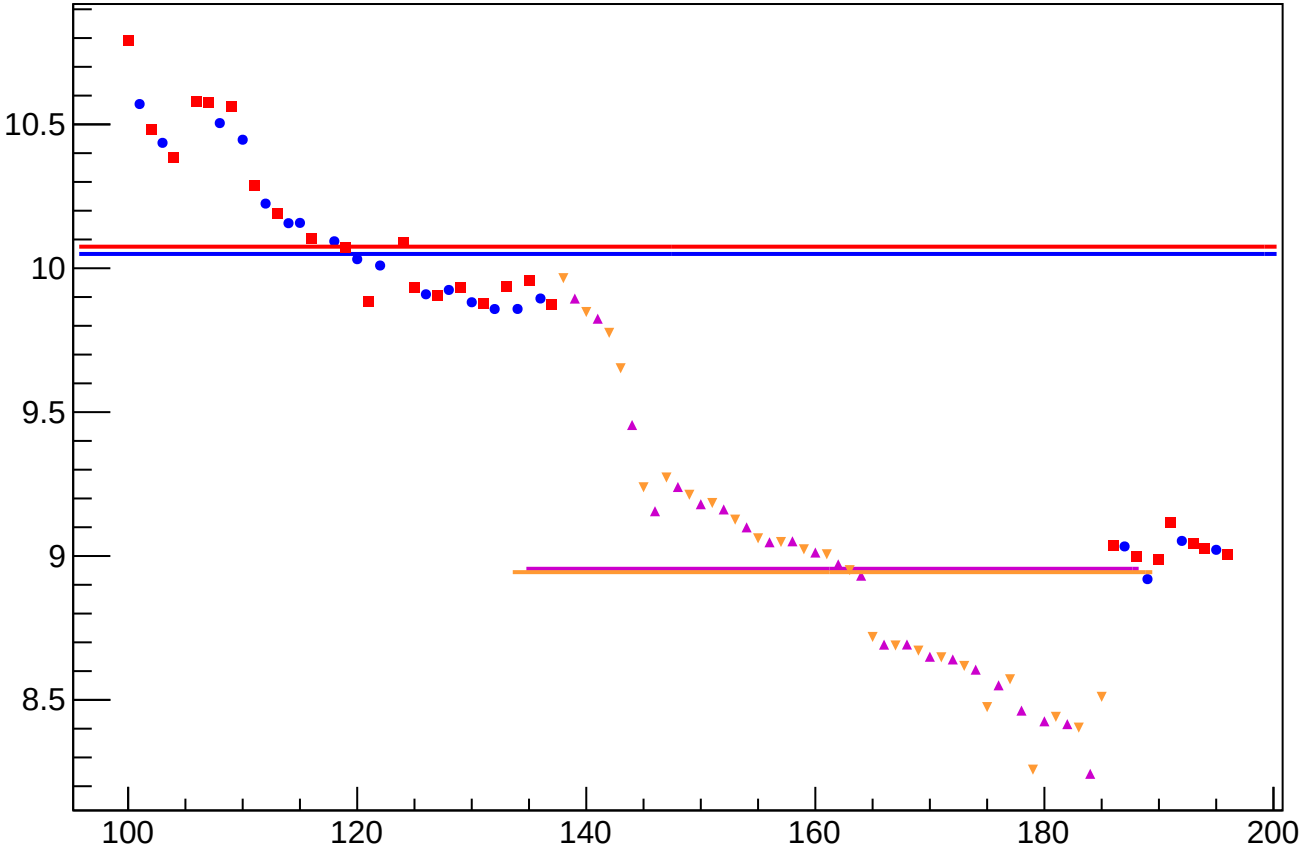
Right: 0.002+/-0.000 $\chi^2$/NDF: 10976559.5/45

In: 0.002+/-0.000 $\chi^2$/NDF:5752102.4/42

Out: 0.002+/-0.000 $\chi^2$/NDF:8197163.4/50

All: 0.002+/-0.000 $\chi^2$/NDF: 13954788.1/93

# yield_sam8_mean vs Slug, Sign Corrected




Right In: 10.050+/-0.000 $\chi^2$/NDF: 20911844163.9/19

Left Out: 8.944+/-0.000 $\chi^2$/NDF:65887712966.5/24

Right Out: 10.075+/-0.000 $\chi^2$/NDF: 30544704055.0/25

Left In: 8.956+/-0.000 $\chi^2$/NDF:51572164470.4/22

Left: 8.949+/-0.000 $\chi^2$/NDF: 117486228855.1/47

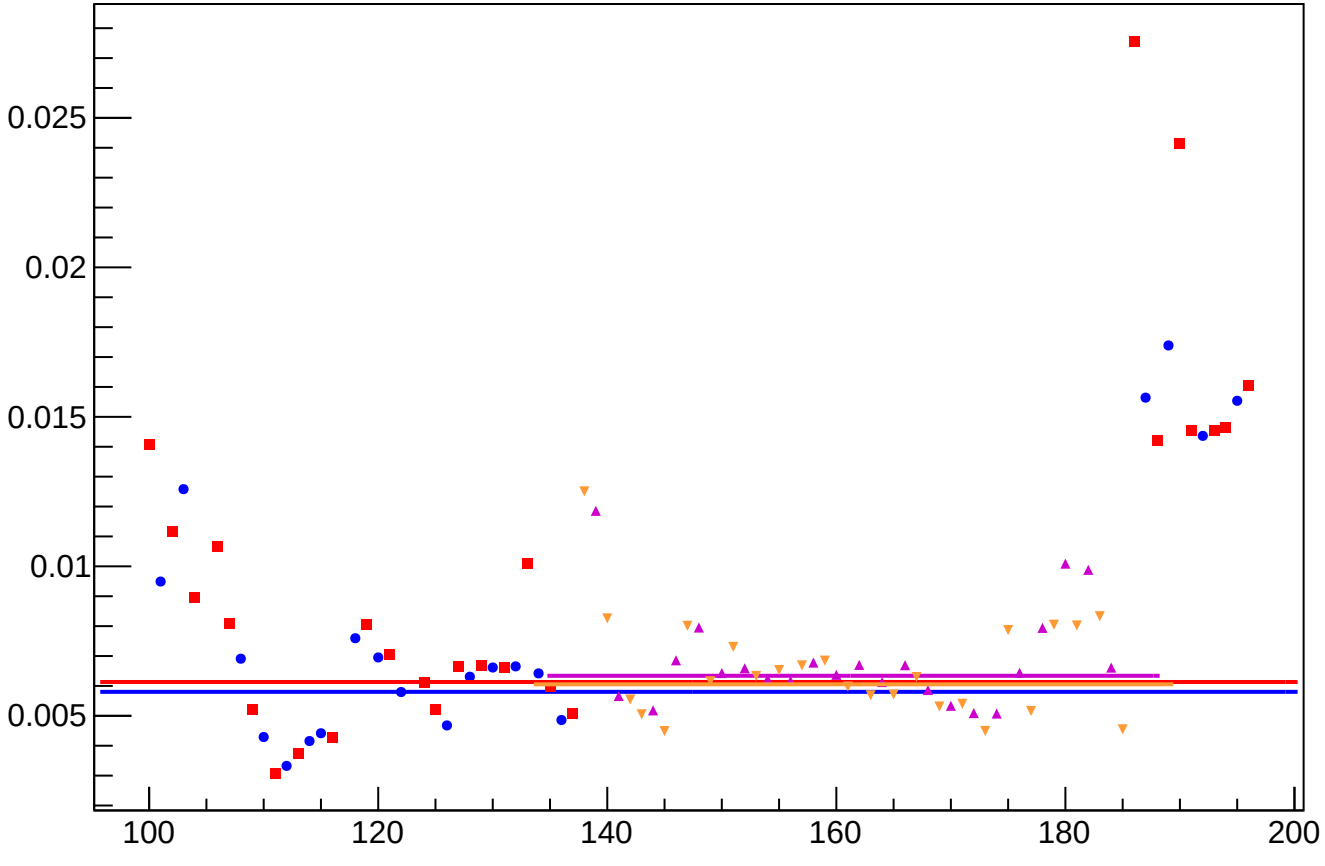
Right: 10.063+/-0.000 $\chi^2$/NDF: 51523481954.0/45

In: 9.350+/-0.000 $\chi^2$/NDF:228677895649.3/42

Out: 9.329+/-0.000 $\chi^2$/NDF:277623783261.9/50

All: 9.339+/-0.000 $\chi^2$/NDF: 506436137921.2

# yield_sam8_rms vs Slug, Sign Corrected




Right In: 0.006+/-0.000 $\chi^2$/NDF: 3305055.5/19

Left Out: 0.006+/-0.000 $\chi^2$/NDF:1461022.8/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 5405119.8/25

Left In: 0.006+/-0.000 $\chi^2$/NDF:1175260.9/22

Left: 0.006+/-0.000 $\chi^2$/NDF: 2667941.0/47

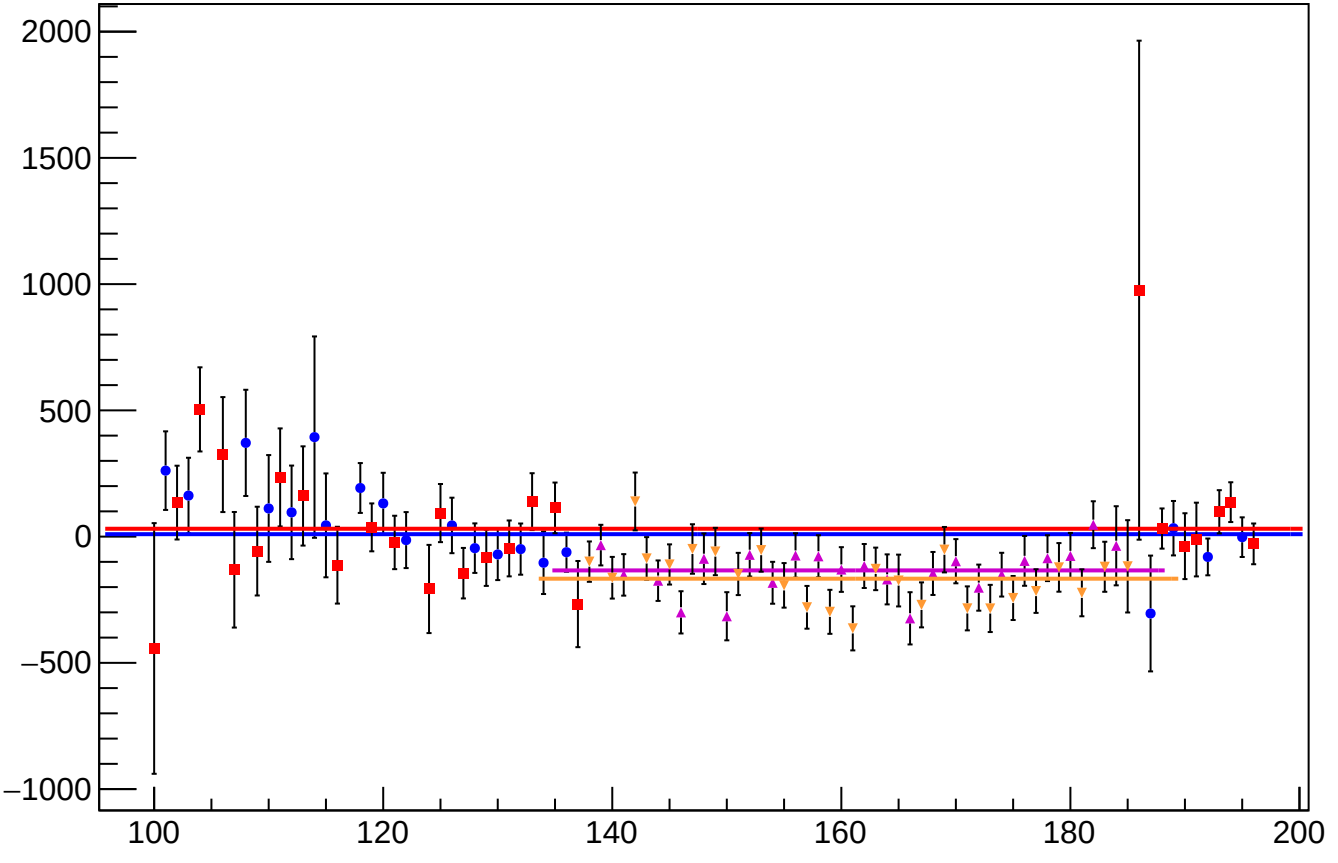
Right: 0.006+/-0.000 $\chi^2$/NDF: 8732919.2/45

In: 0.006+/-0.000 $\chi^2$/NDF:4555713.3/42

Out: 0.006+/-0.000 $\chi^2$/NDF:6867870.5/50

All: 0.006+/-0.000 $\chi^2$/NDF: 11426154.4/93

# reg_asym_sam1_mean vs Slug, Sign Corrected




Right In: 9.620+/-25.727 $\chi^2$/NDF: 19.0/19

Left Out: -166.676+/-18.079 $\chi^2$/NDF:31.6/24

Right Out: 31.124+/-23.888 $\chi^2$/NDF: 30.3/25

Left In: -133.843+/-18.756 $\chi^2$/NDF:20.7/22

Left: -150.863+/-13.016 $\chi^2$/NDF: 54.0/47

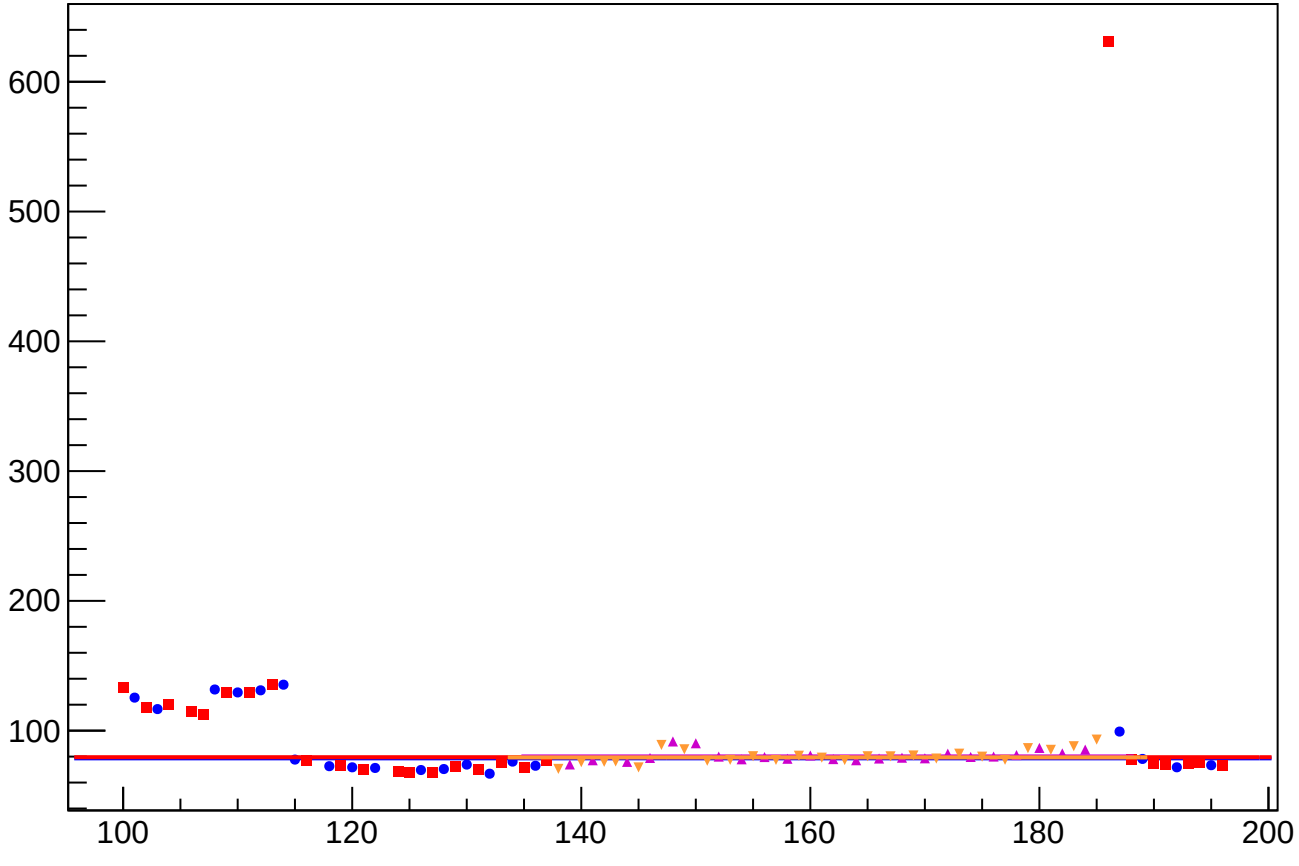
Right: 21.168+/-17.506 $\chi^2$/NDF: 49.7/45

In: -84.056+/-15.156 $\chi^2$/NDF:60.1/42

Out: -94.642+/-14.416 $\chi^2$/NDF:105.5/50

All: -89.613+/-10.445 $\chi^2$/NDF: 165.9/93

# reg_asym_sam1_rms vs Slug, Sign Corrected




Right In: 78.650+/-0.018 $\chi^2$/NDF: 889268.9/19

Left Out: 79.410+/-0.013 $\chi^2$/NDF:134796.0/24

Right Out: 79.544+/-0.017 $\chi^2$/NDF: 1598793.6/25

Left In: 80.160+/-0.013 $\chi^2$/NDF:91469.5/22

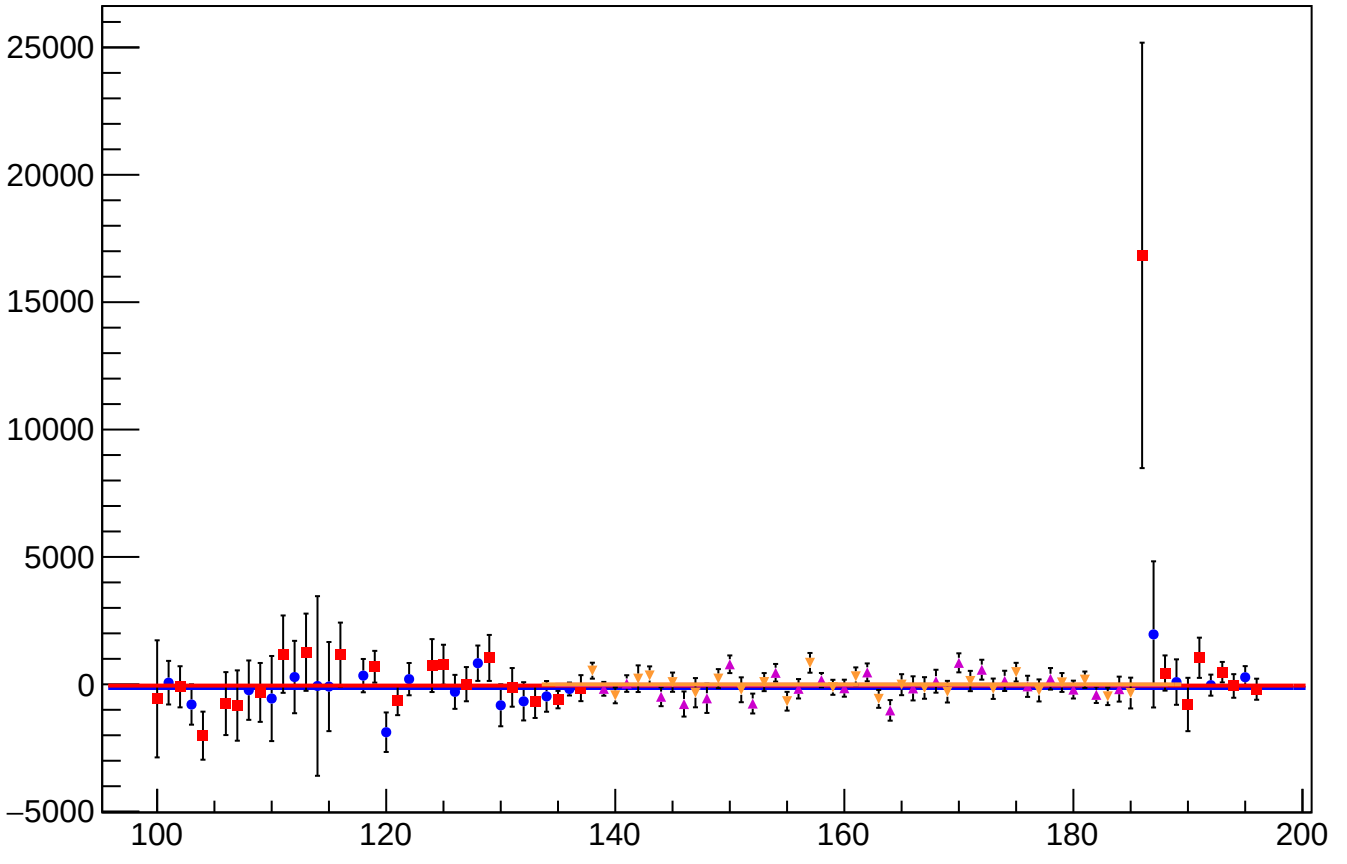
Left: 79.771+/-0.009 $\chi^2$/NDF: 227922.3/47

Right: 79.130+/-0.012 $\chi^2$/NDF: 2489357.3/45

In: 79.636+/-0.011 $\chi^2$/NDF:985235.6/42

Out: 79.459+/-0.010 $\chi^2$/NDF:1733629.2/50

All: 79.543+/-0.007 $\chi^2$/NDF: 2719008.5/93




Right In: -144.053+/-141.744 $\chi^2$/NDF: 11.9/19

Left Out: -3.474+/-75.863 $\chi^2$/NDF:24.0/24

Right Out: -50.143+/-133.943 $\chi^2$/NDF: 25.4/25

Left In: -19.298+/-77.541 $\chi^2$/NDF:35.0/22

Left: -11.213+/-54.227 $\chi^2$/NDF: 59.1/47

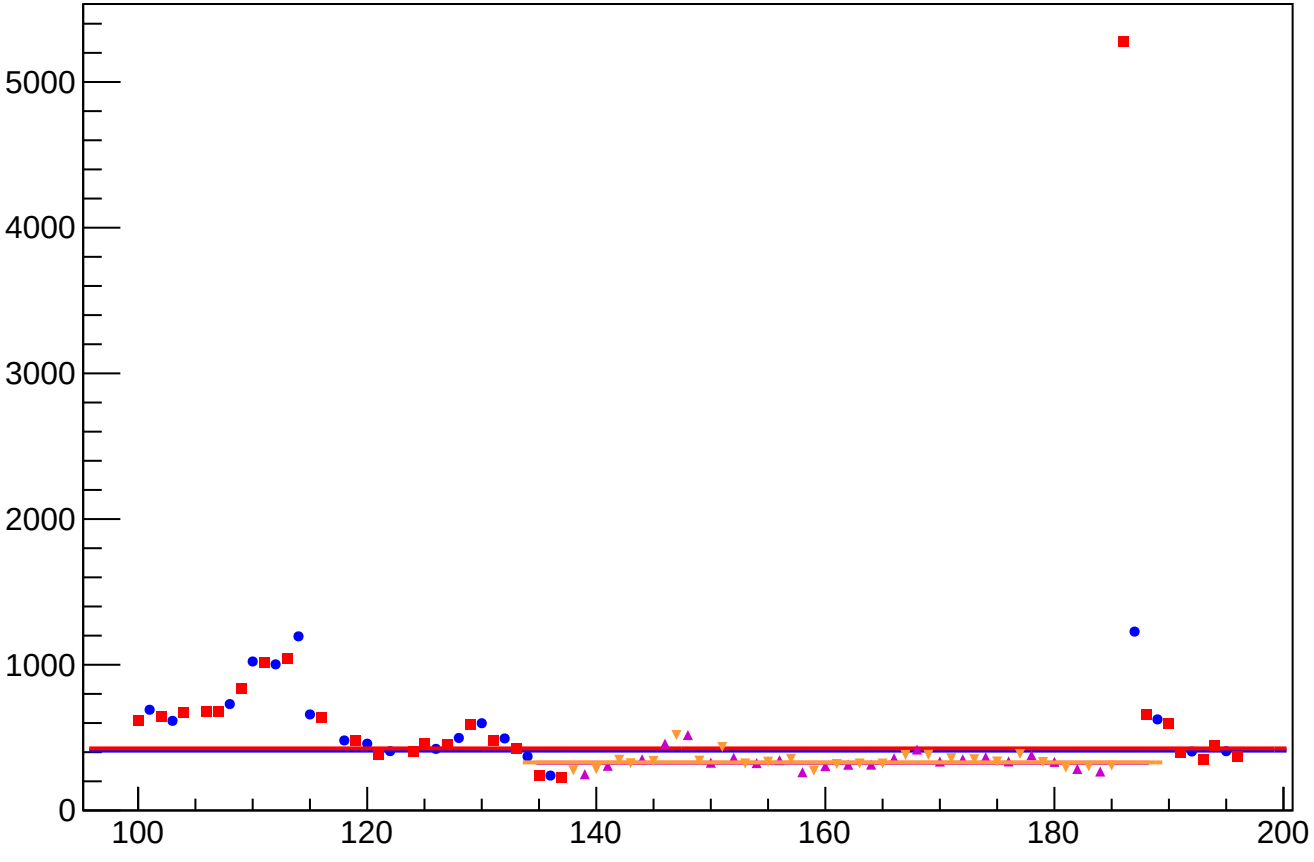
Right: -94.443+/-97.353 $\chi^2$/NDF: 37.5/45

In: -48.033+/-68.027 $\chi^2$/NDF:47.5/42

Out: -14.809+/-66.010 $\chi^2$/NDF:49.6/50

All: -30.921+/-47.373 $\chi^2$/NDF: 97.2/93

# asym_sam1_reg_correction_rms vs Slug, Sign Corrected




Right In: 410.941+/-0.100 $\chi^2$/NDF: 2643034.9/19

Left Out: 329.968+/-0.054 $\chi^2$/NDF:659241.4/24

Right Out: 425.776+/-0.095 $\chi^2$/NDF: 3437502.6/25

Left In: 326.963+/-0.055 $\chi^2$/NDF:899326.3/22

Left: 328.498+/-0.038 $\chi^2$/NDF: 1560101.8/47

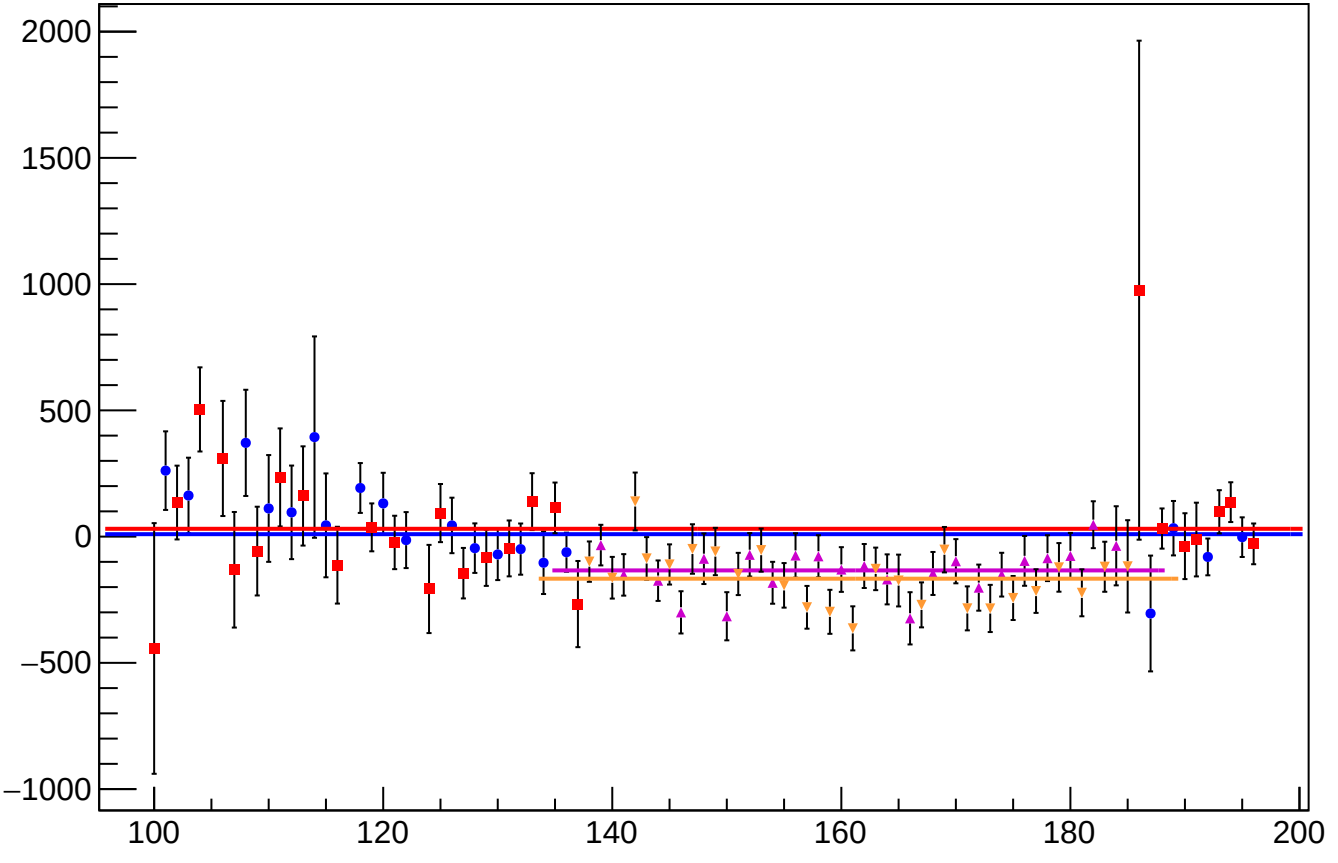
Right: 418.778+/-0.069 $\chi^2$/NDF: 6092111.7/45

In: 346.306+/-0.048 $\chi^2$/NDF:4082684.8/42

Out: 353.237+/-0.047 $\chi^2$/NDF:4871504.5/50

All: 349.876+/-0.033 $\chi^2$/NDF: 8964883.5/93

# cor_asym_sam1_mean vs Slug, Sign Corrected




Right In: 9.627+/-25.727 $\chi^2$/NDF: 19.1/19

Left Out: -166.675+/-18.079 $\chi^2$/NDF:31.6/24

Right Out: 30.948+/-23.889 $\chi^2$/NDF: 30.1/25

Left In: -133.850+/-18.756 $\chi^2$/NDF:20.7/22

Left: -150.865+/-13.016 $\chi^2$/NDF: 54.0/47

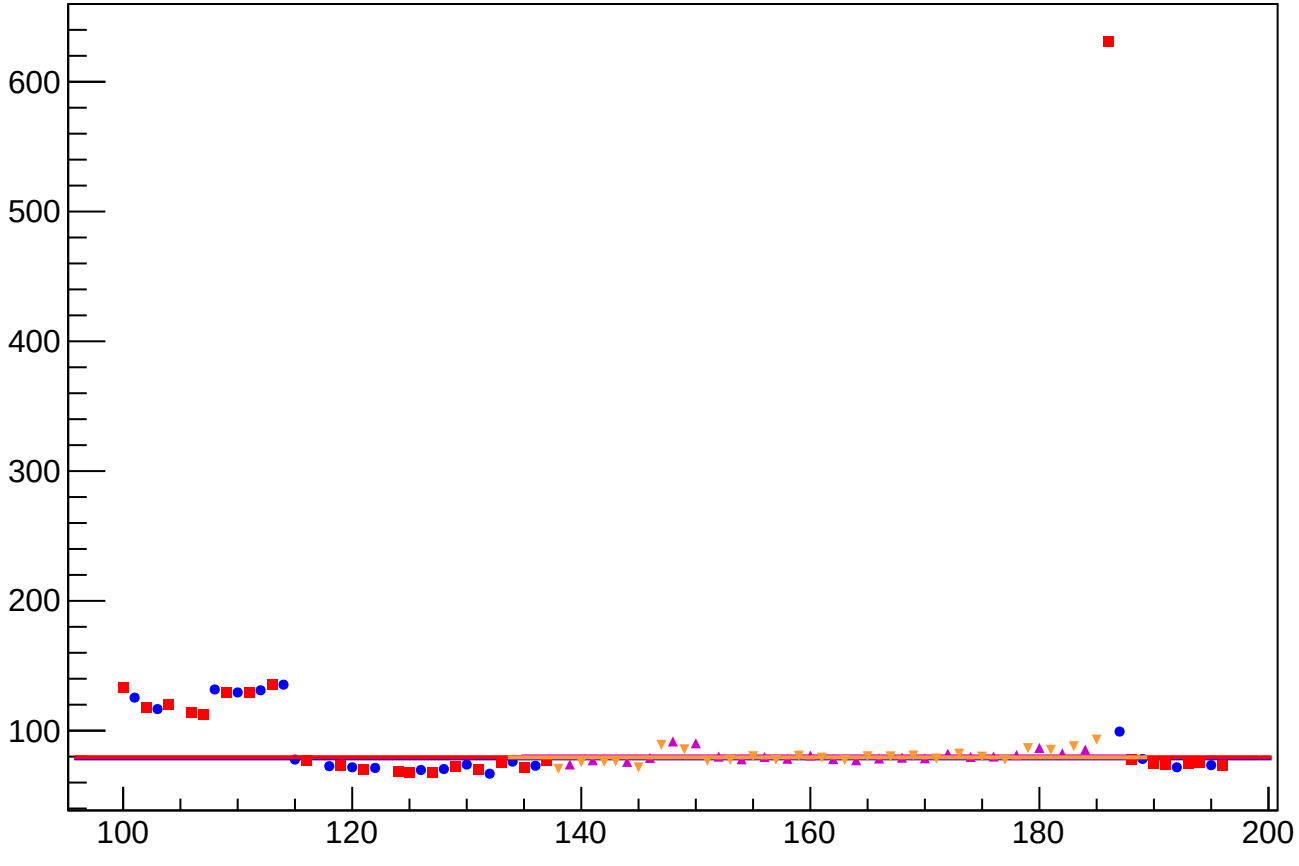
Right: 21.077+/-17.506 $\chi^2$/NDF: 49.5/45

In: -84.058+/-15.156 $\chi^2$/NDF:60.1/42

Out: -94.706+/-14.416 $\chi^2$/NDF:105.3/50

All: -89.648+/-10.445 $\chi^2$/NDF: 165.6/93

# cor_asym_sam1_rms vs Slug, Sign Corrected




Right In: 78.650+/-0.018 $\chi^2$/NDF: 889269.1/19

Left Out: 79.410+/-0.013 $\chi^2$/NDF:134796.1/24

Right Out: 79.535+/-0.017 $\chi^2$/NDF: 1596769.1/25

Left In: 80.160+/-0.013 $\chi^2$/NDF:91469.5/22

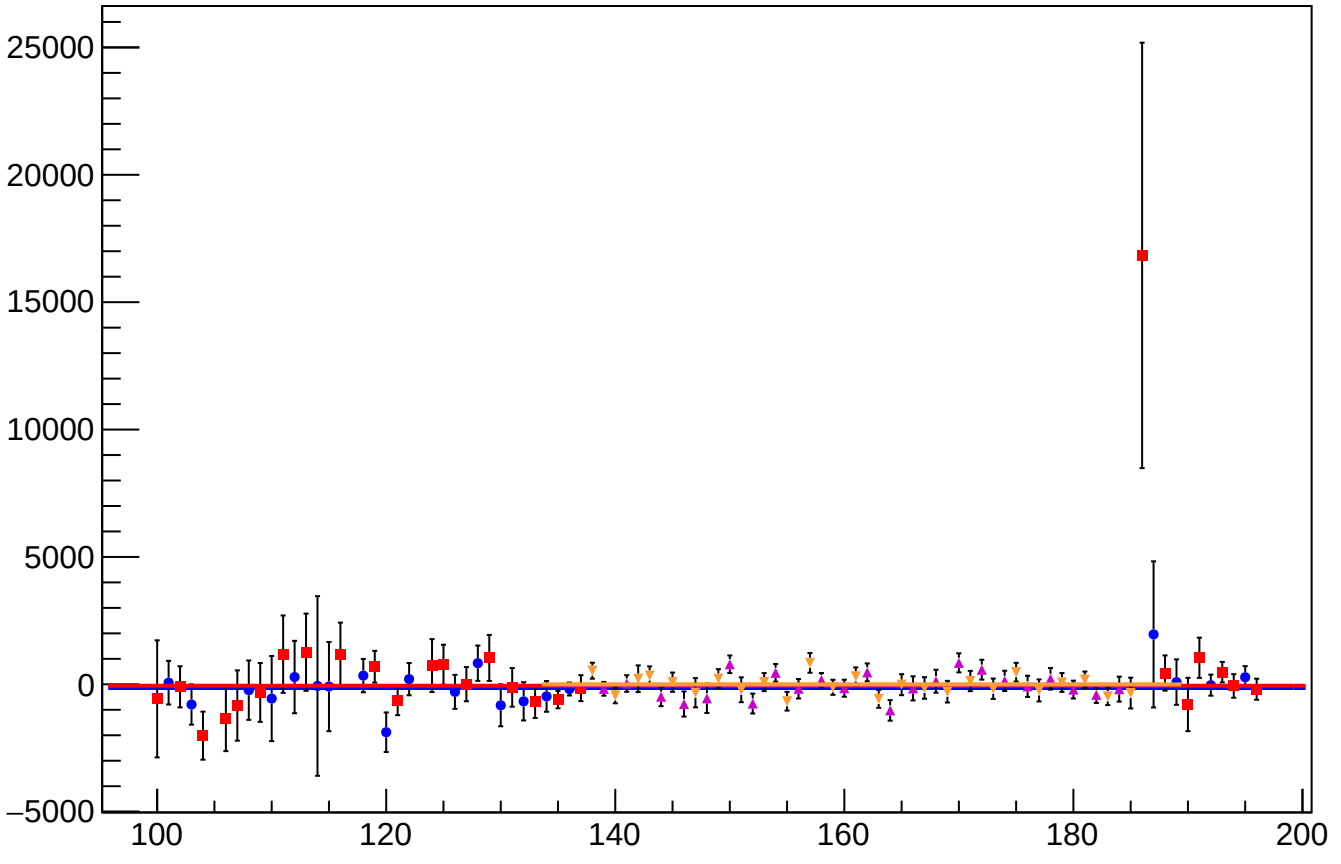
Left: 79.771+/-0.009 $\chi^2$/NDF: 227922.4/47

Right: 79.125+/-0.012 $\chi^2$/NDF: 2487307.0/45

In: 79.636+/-0.011 $\chi^2$/NDF:985235.8/42

Out: 79.456+/-0.010 $\chi^2$/NDF:1731599.6/50

All: 79.541+/-0.007 $\chi^2$/NDF: 2716984.4/93




Right In: -144.051+/-141.744 $\chi^2$/NDF: 11.9/19

Left Out: -3.474+/-75.863 $\chi^2$/NDF:24.0/24

Right Out: -56.195+/-133.990 $\chi^2$/NDF: 26.2/25

Left In: -19.305+/-77.541 $\chi^2$/NDF:35.0/22

Left: -11.216+/-54.227 $\chi^2$/NDF: 59.1/47

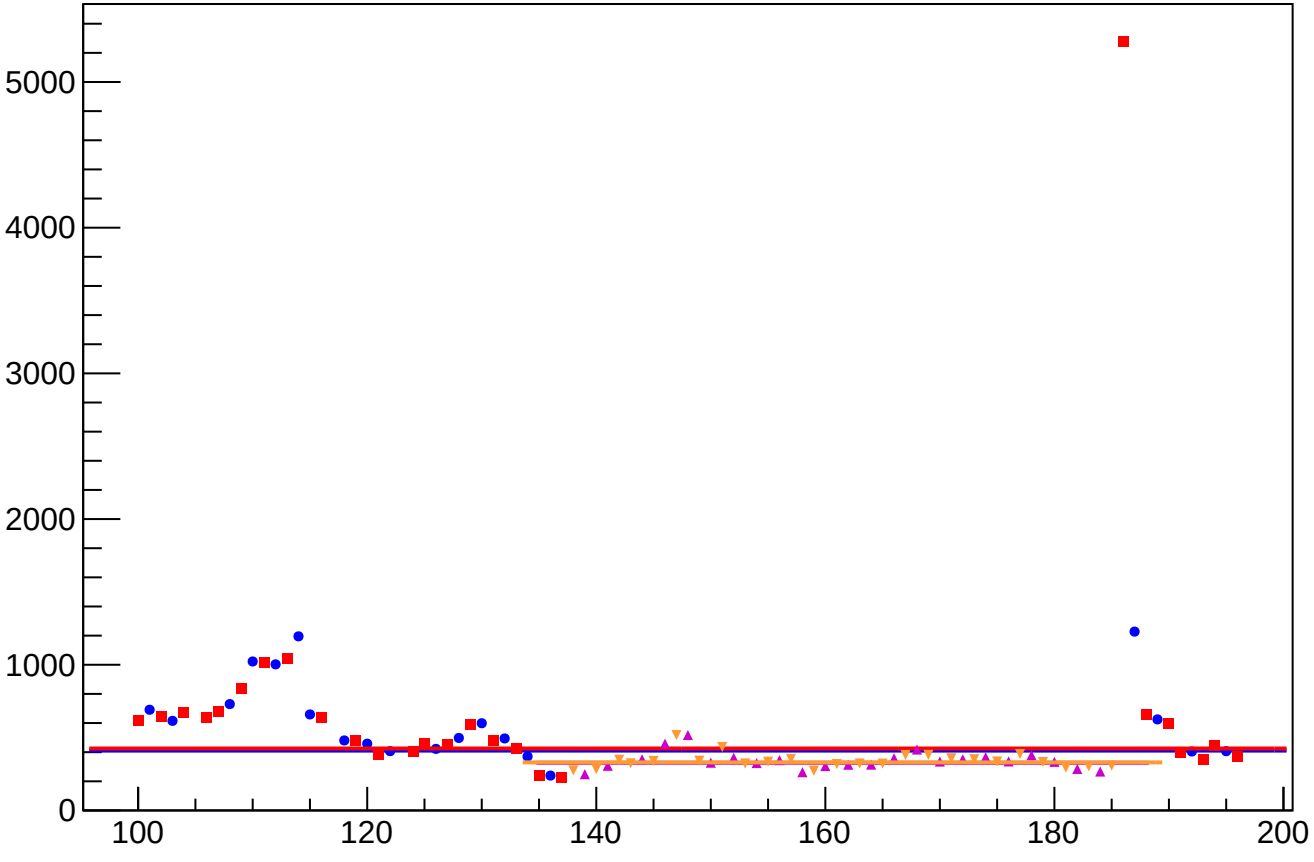
Right: -97.655+/-97.371 $\chi^2$/NDF: 38.2/45

In: -48.038+/-68.027 $\chi^2$/NDF:47.5/42

Out: -16.272+/-66.016 $\chi^2$/NDF:50.3/50

All: -31.678+/-47.375 $\chi^2$/NDF: 97.9/93

# asym_sam1_cor_correction_rms vs Slug, Sign Corrected




Right In: 410.941+/-0.100 $\chi^2$/NDF: 2643029.4/19

Left Out: 329.968+/-0.054 $\chi^2$/NDF:659249.8/24

Right Out: 425.164+/-0.095 $\chi^2$/NDF: 3409734.8/25

Left In: 326.963+/-0.055 $\chi^2$/NDF:899329.3/22

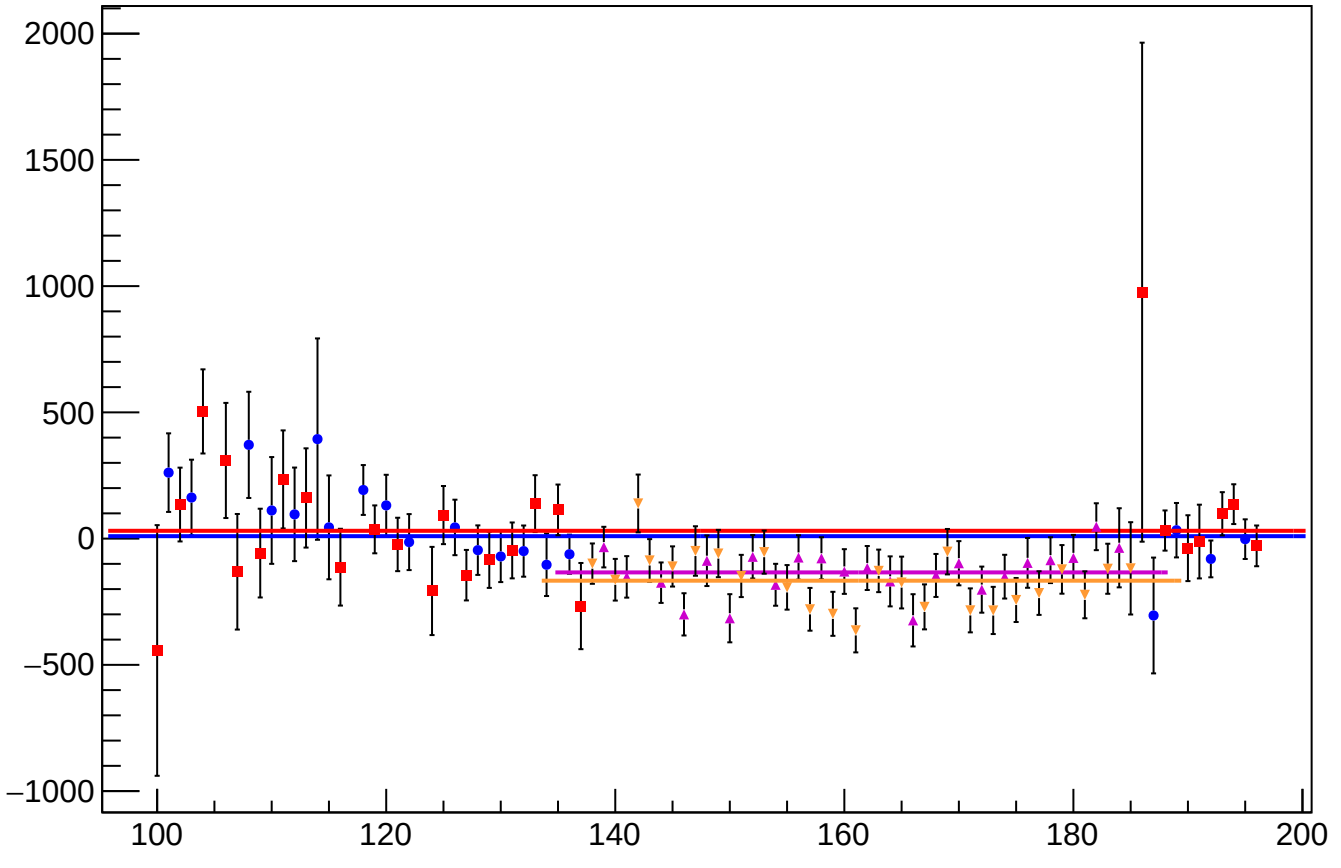
Left: 328.498+/-0.038 $\chi^2$/NDF: 1560113.2/47

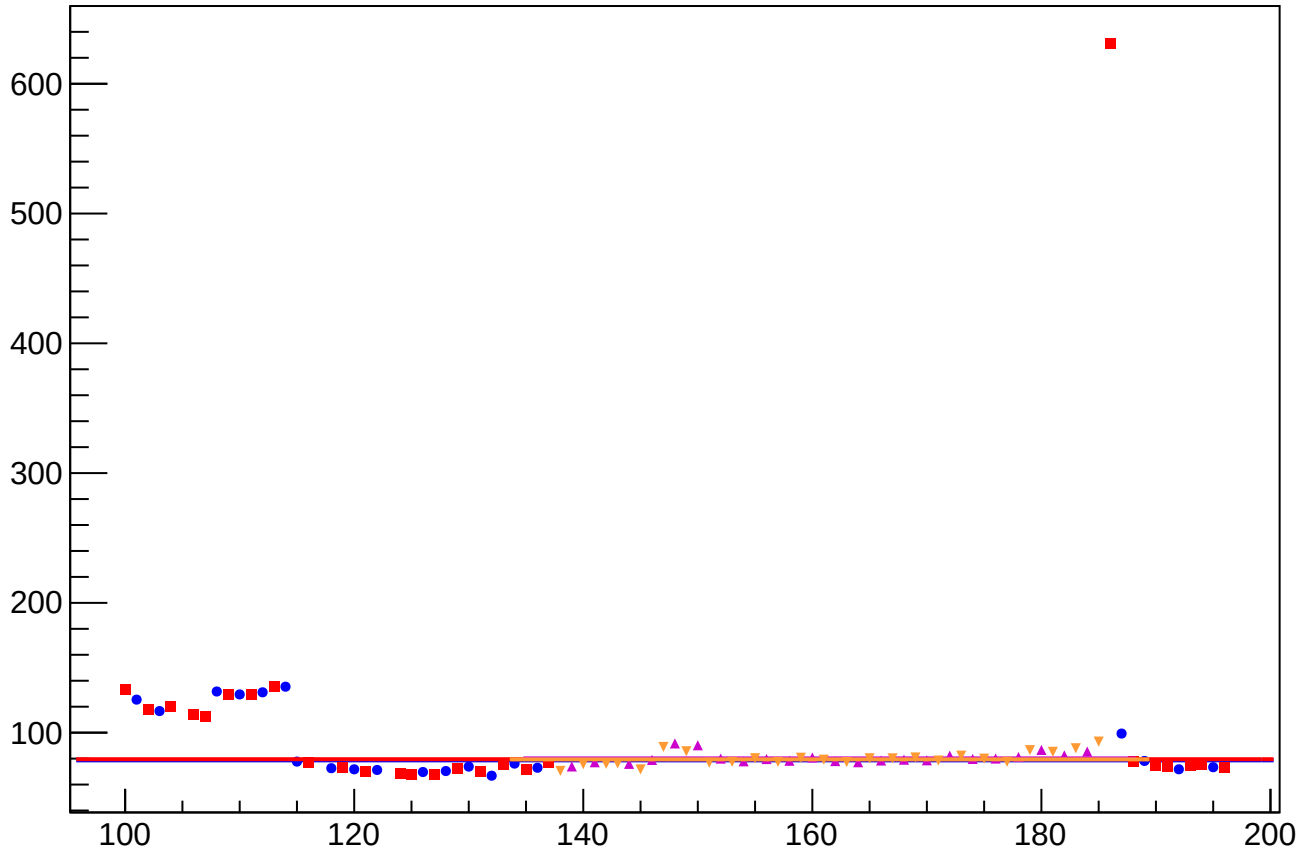
Right: 418.452+/-0.069 $\chi^2$/NDF: 6063398.3/45

In: 346.306+/-0.048 $\chi^2$/NDF:4082684.1/42

Out: 353.076+/-0.047 $\chi^2$/NDF:4833457.0/50

All: 349.793+/-0.033 $\chi^2$/NDF: 8926342.4/93


eigen_cor_asym_sam1_mean vs Slug, Sign Corrected
2000
1500
1000
500
0
−500
−1000
100
120
140
160
180
200
Right In: 9.627+/-25.727 χ²/NDF: 19.1/19
Left Out: -166.675+/-18.079 χ²/NDF:31.6/24
Right Out: 30.948+/-23.889 χ²/NDF: 30.1/25
Left In: -133.850+/-18.756 χ²/NDF:20.7/22
Left: -150.865+/-13.016 χ²/NDF: 54.0/47
Right: 21.077+/-17.506 χ²/NDF: 49.5/45
In: -84.058+/-15.156 χ²/NDF:60.1/42
Out: -94.706+/-14.416 χ²/NDF:105.3/50
All: -89.648+/-10.445 χ²/NDF: 165.6/93




Right In: 78.650+/-0.018 $\chi^2$/NDF: 889269.1/19

Left Out: 79.410+/-0.013 $\chi^2$/NDF:134796.1/24

Right Out: 79.535+/-0.017 $\chi^2$/NDF: 1596769.1/25

Left In: 80.160+/-0.013 $\chi^2$/NDF:91469.5/22

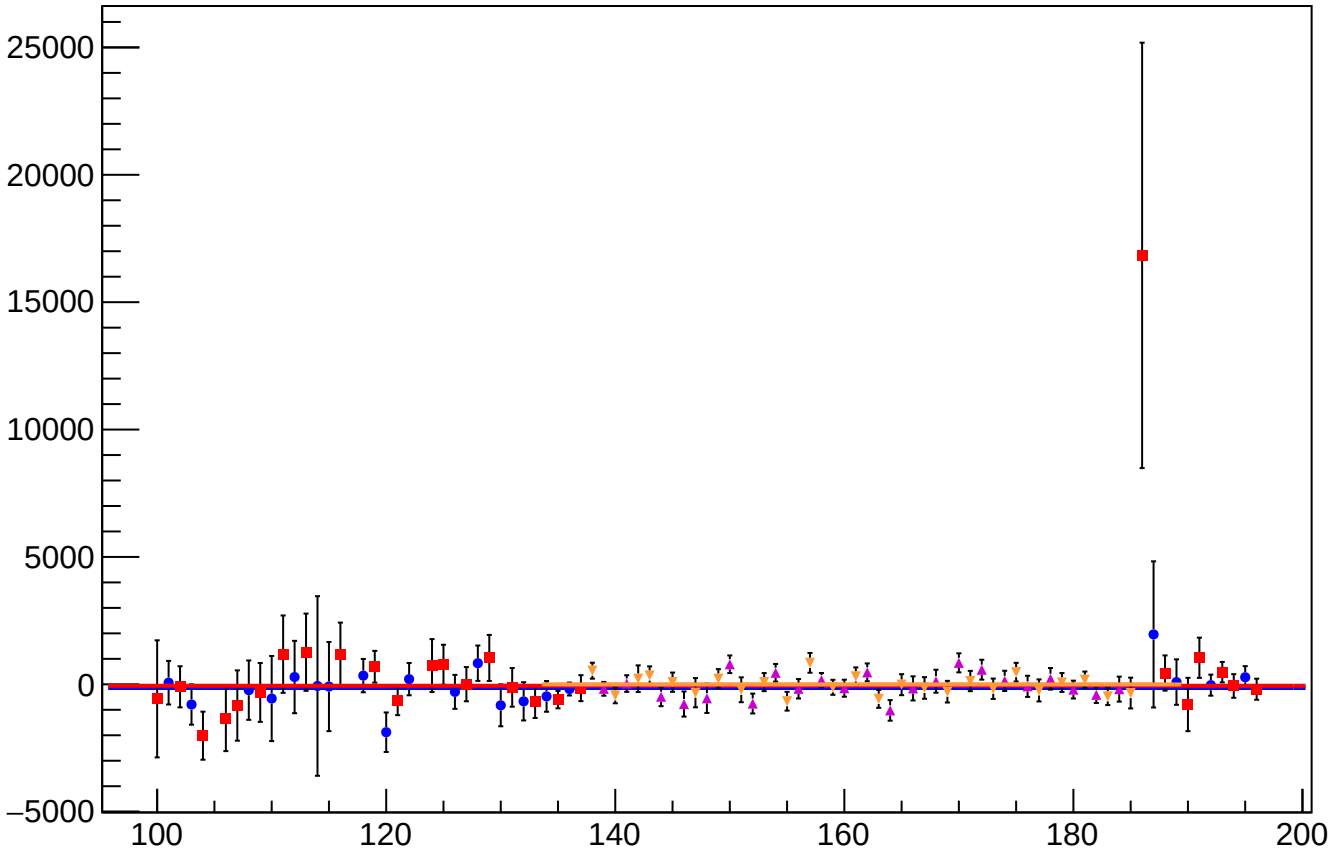
Left: 79.771+/-0.009 $\chi^2$/NDF: 227922.4/47

Right: 79.125+/-0.012 $\chi^2$/NDF: 2487307.0/45

In: 79.636+/-0.011 $\chi^2$/NDF:985235.8/42

Out: 79.456+/-0.010 $\chi^2$/NDF:1731599.6/50

All: 79.541+/-0.007 $\chi^2$/NDF: 2716984.4/93




Right In: -144.051+/-141.744 $\chi^2$/NDF: 11.9/19

Left Out: -3.474+/-75.863 $\chi^2$/NDF:24.0/24

Right Out: -56.195+/-133.990 $\chi^2$/NDF: 26.2/25

Left In: -19.305+/-77.541 $\chi^2$/NDF:35.0/22

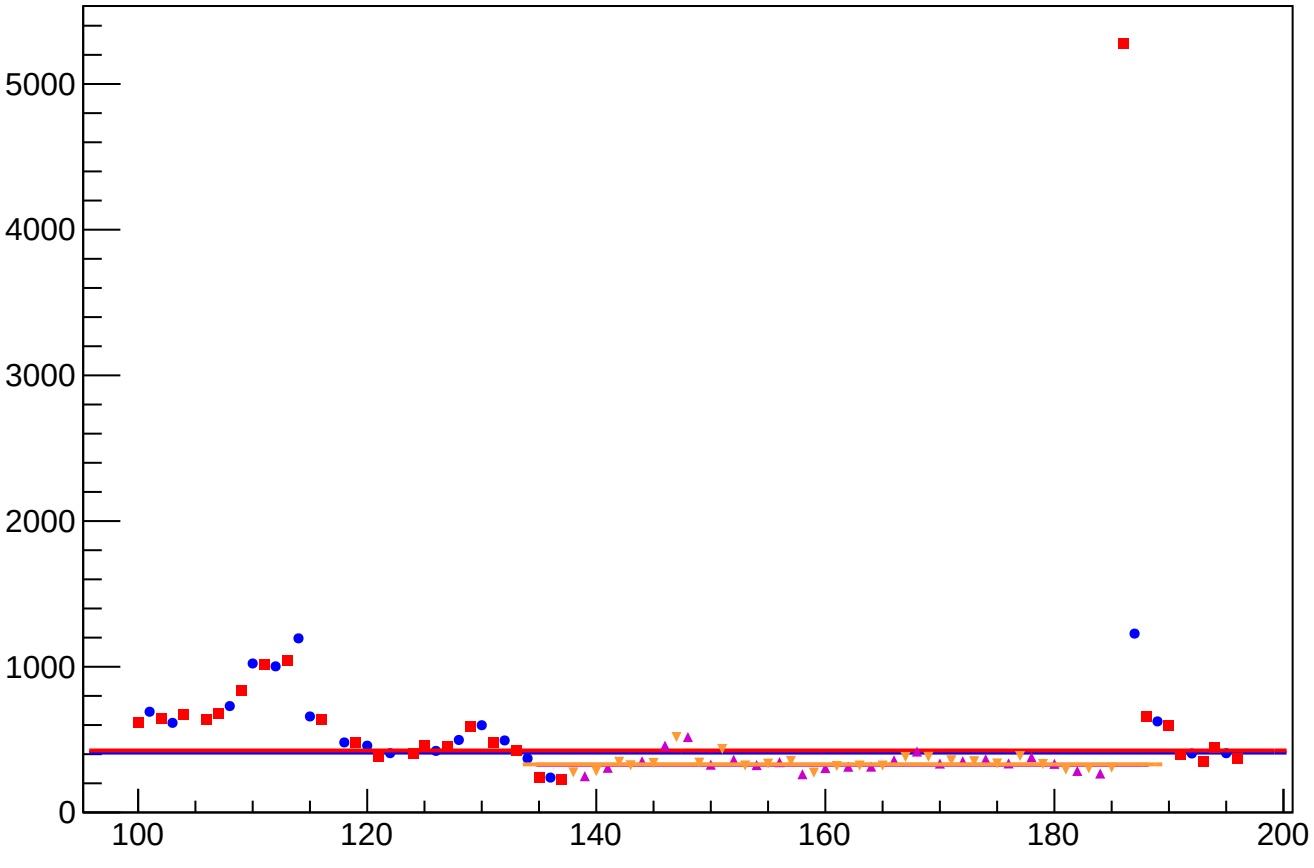
Left: -11.216+/-54.227 $\chi^2$/NDF: 59.1/47

Right: -97.655+/-97.371 $\chi^2$/NDF: 38.2/45

In: -48.038+/-68.027 $\chi^2$/NDF:47.5/42

Out: -16.272+/-66.016 $\chi^2$/NDF:50.3/50

All: -31.678+/-47.375 $\chi^2$/NDF: 97.9/93




Right In: 410.941+/-0.100 $\chi^2$/NDF: 2643029.4/19

Left Out: 329.968+/-0.054 $\chi^2$/NDF:659249.8/24

Right Out: 425.164+/-0.095 $\chi^2$/NDF: 3409734.8/25

Left In: 326.963+/-0.055 $\chi^2$/NDF:899329.3/22

Left: 328.498+/-0.038 $\chi^2$/NDF: 1560113.2/47

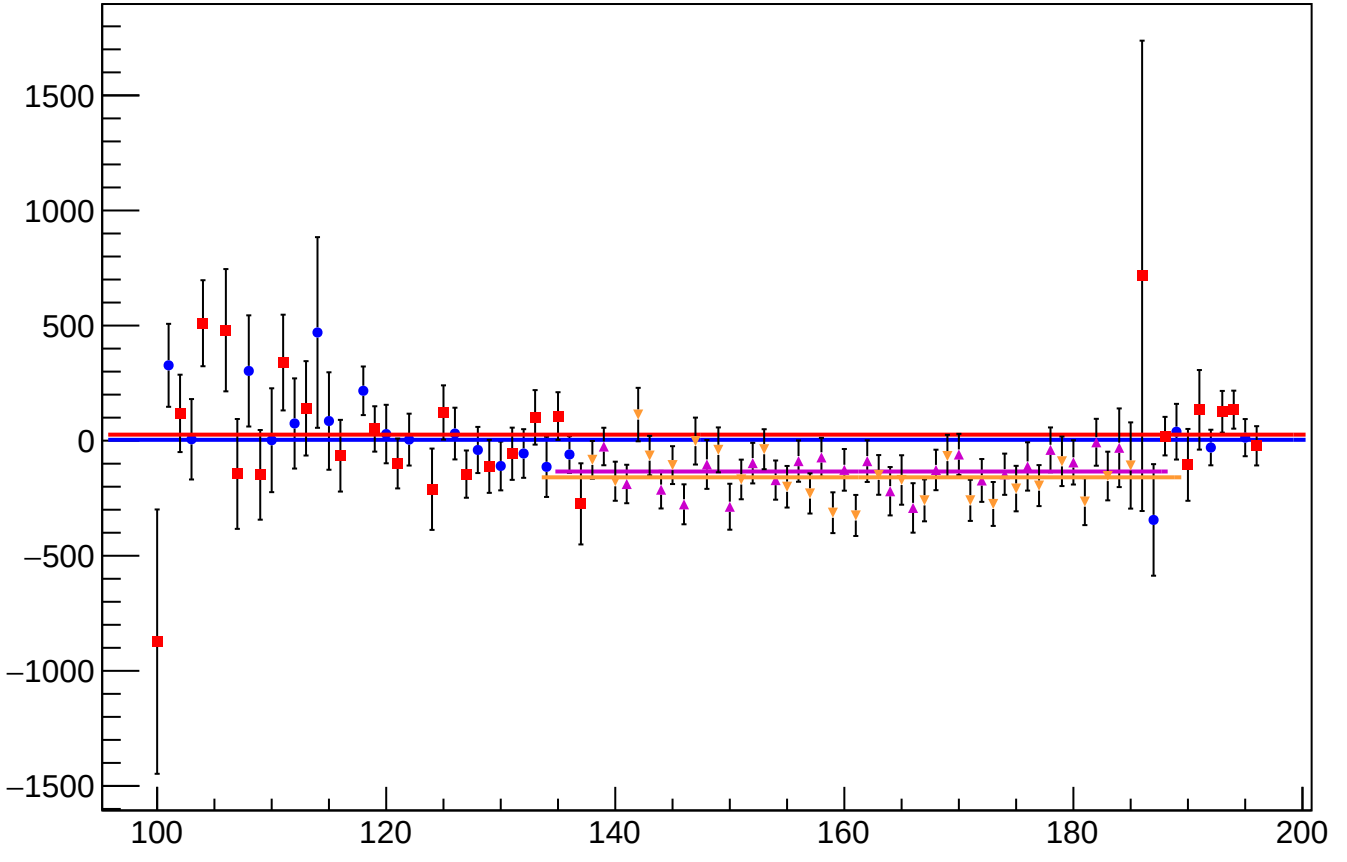
Right: 418.452+/-0.069 $\chi^2$/NDF: 6063398.3/45

In: 346.306+/-0.048 $\chi^2$/NDF:4082684.1/42

Out: 353.076+/-0.047 $\chi^2$/NDF:4833457.0/50

All: 349.793+/-0.033 $\chi^2$/NDF: 8926342.4/93

# dit_asym_sam1_mean vs Slug, Sign Corrected




Right In: 3.657+/-27.069 $\chi^2$/NDF: 15.9/19

Left Out: -159.223+/-18.749 $\chi^2$/NDF:28.2/24

Right Out: 26.156+/-25.203 $\chi^2$/NDF: 34.0/25

Left In: -134.010+/-19.441 $\chi^2$/NDF:16.4/22

Left: -147.073+/-13.496 $\chi^2$/NDF: 45.5/47

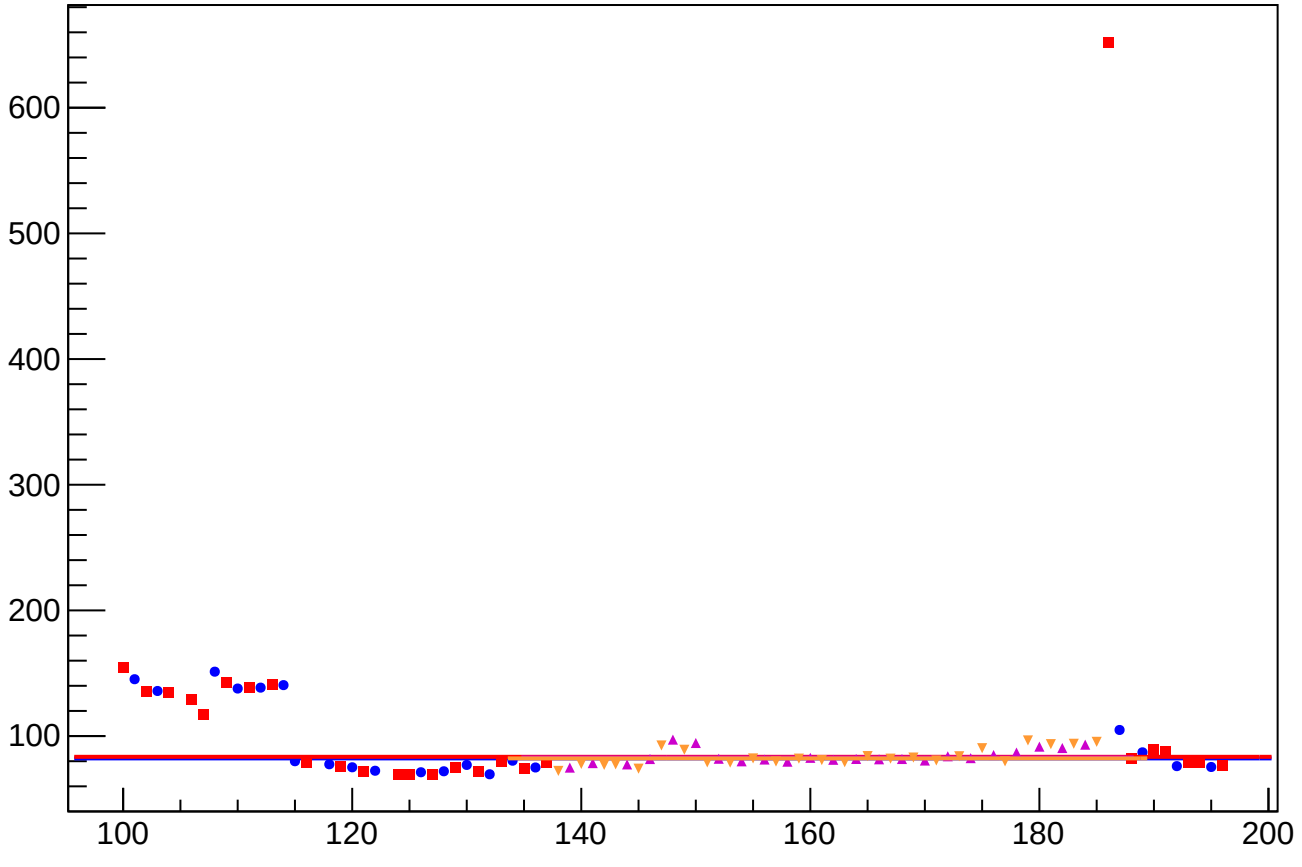
Right: 15.708+/-18.446 $\chi^2$/NDF: 50.3/45

In: -87.164+/-15.790 $\chi^2$/NDF:49.4/42

Out: -93.179+/-15.043 $\chi^2$/NDF:97.0/50

All: -90.317+/-10.892 $\chi^2$/NDF: 146.5/93

# dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 82.236+/-0.019 $\chi^2$/NDF: 1086257.3/19

Left Out: 82.247+/-0.013 $\chi^2$/NDF:216548.3/24

Right Out: 83.490+/-0.018 $\chi^2$/NDF: 1770878.4/25

Left In: 82.993+/-0.014 $\chi^2$/NDF:145608.6/22

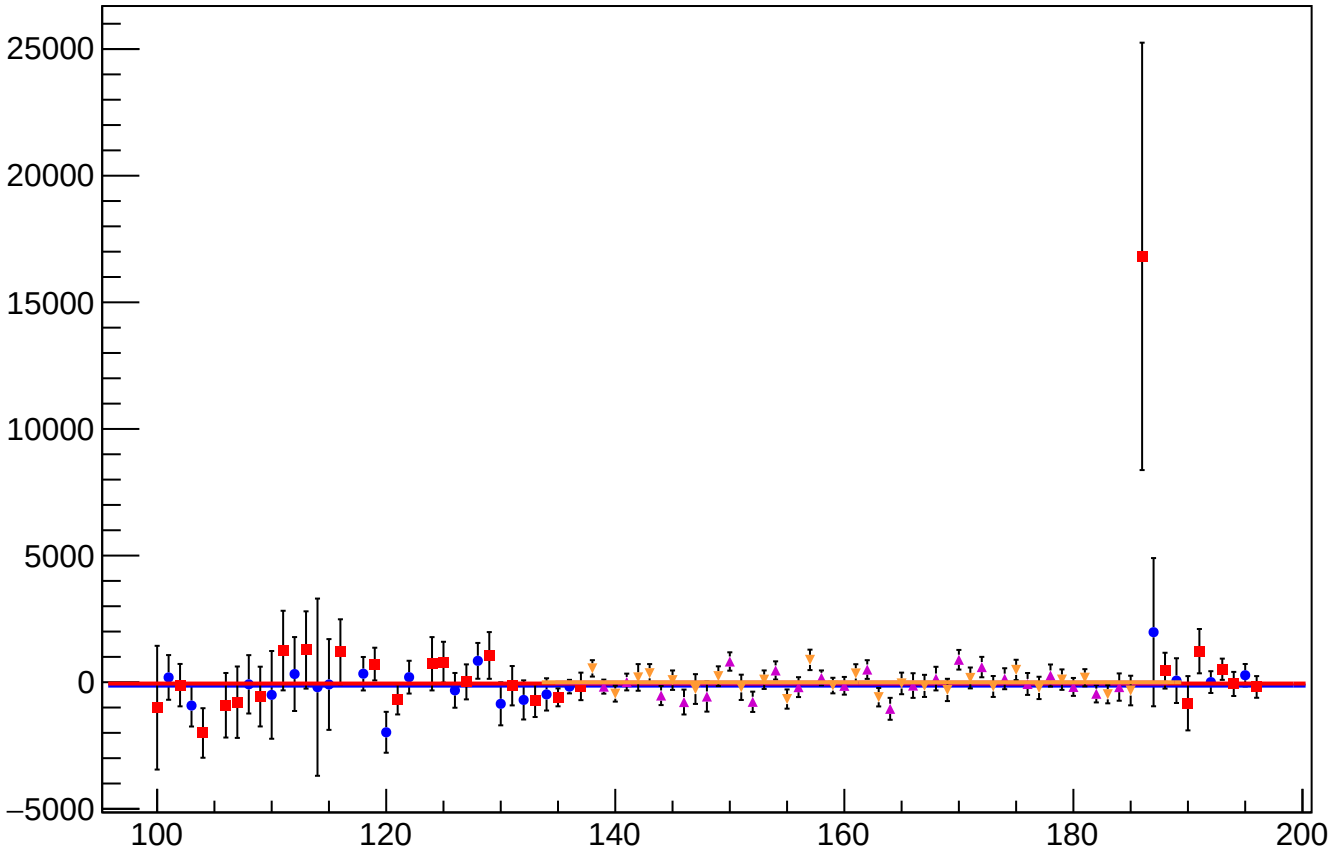
Left: 82.607+/-0.010 $\chi^2$/NDF: 363681.9/47

Right: 82.908+/-0.013 $\chi^2$/NDF: 2859433.0/45

In: 82.735+/-0.011 $\chi^2$/NDF:1232897.5/42

Out: 82.690+/-0.011 $\chi^2$/NDF:1990555.4/50

All: 82.712+/-0.008 $\chi^2$/NDF: 3223461.6/93




Right In: -134.617+/-146.727 $\chi^2$/NDF: 12.3/19

Left Out: -3.095+/-78.582 $\chi^2$/NDF:23.5/24

Right Out: -52.863+/-138.679 $\chi^2$/NDF: 25.7/25

Left In: -16.519+/-80.410 $\chi^2$/NDF:34.9/22

Left: -9.652+/-56.201 $\chi^2$/NDF: 58.4/47

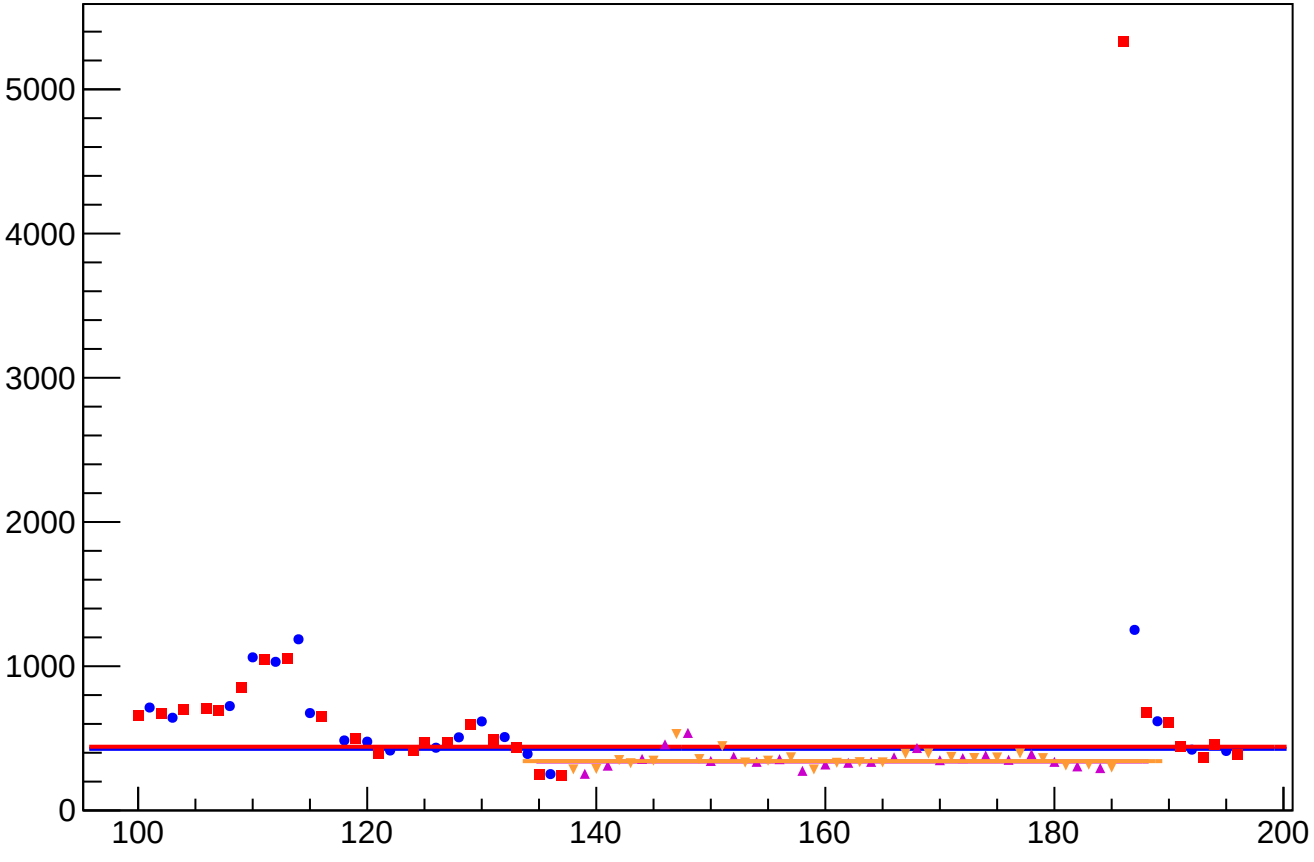
Right: -91.437+/-100.786 $\chi^2$/NDF: 38.1/45

In: -43.795+/-70.515 $\chi^2$/NDF:47.7/42

Out: -15.191+/-68.369 $\chi^2$/NDF:49.3/50

All: -29.051+/-49.085 $\chi^2$/NDF: 97.0/93

# asym_sam1_dit_correction_rms vs Slug, Sign Corrected




Right In: 427.156+/-0.104 $\chi^2$/NDF: 2513184.2/19

Left Out: 341.918+/-0.056 $\chi^2$/NDF:653930.4/24

Right Out: 441.915+/-0.098 $\chi^2$/NDF: 3351522.7/25

Left In: 339.430+/-0.057 $\chi^2$/NDF:846706.0/22

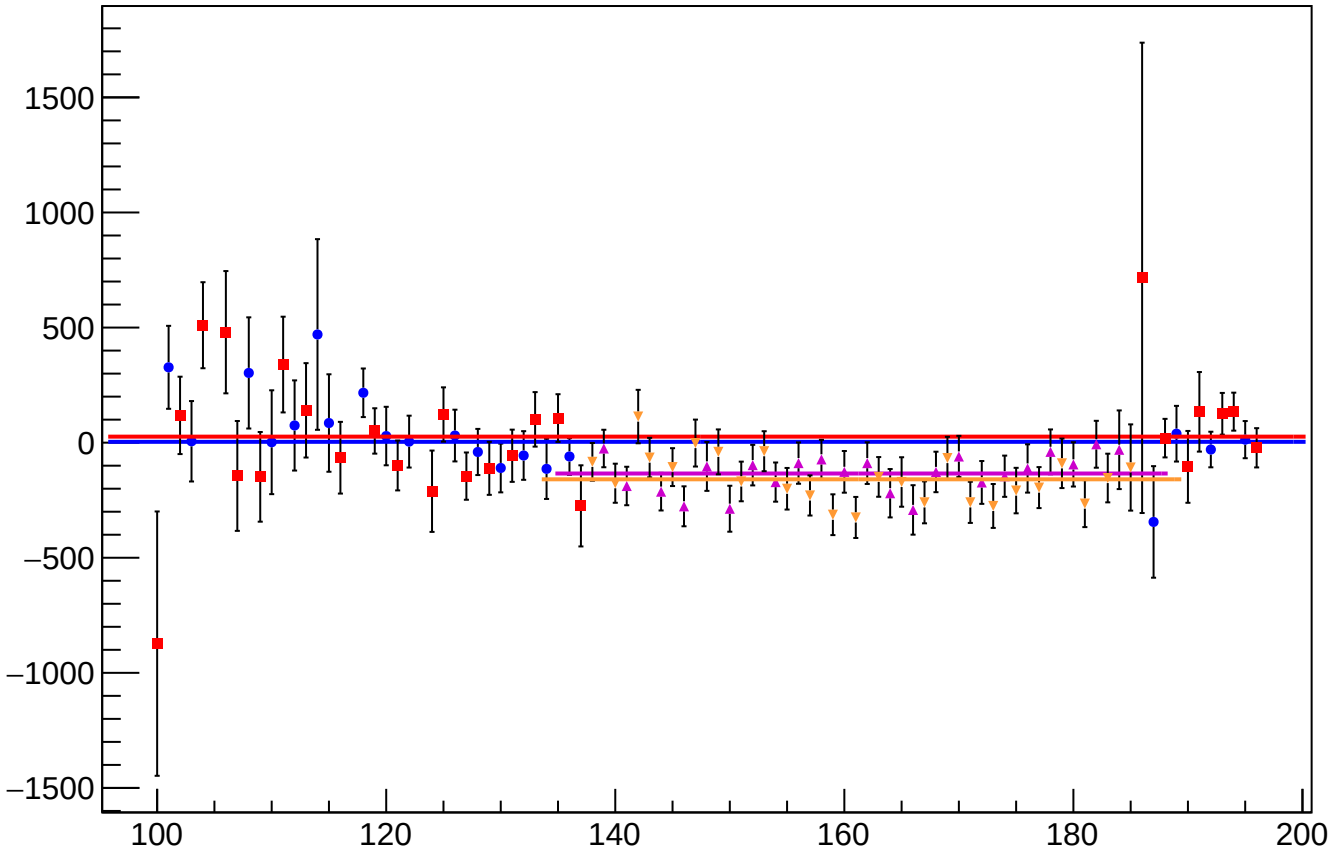
Left: 340.702+/-0.040 $\chi^2$/NDF: 1501615.8/47

Right: 434.952+/-0.071 $\chi^2$/NDF: 5875395.4/45

In: 359.691+/-0.050 $\chi^2$/NDF:3909710.2/42

Out: 366.222+/-0.048 $\chi^2$/NDF:4792603.5/50

All: 363.057+/-0.035 $\chi^2$/NDF: 8711155.7/93




Right In: 3.658+/-27.069 $\chi^2$/NDF: 15.9/19

Left Out: -159.223+/-18.749 $\chi^2$/NDF:28.2/24

Right Out: 26.155+/-25.203 $\chi^2$/NDF: 34.0/25

Left In: -134.010+/-19.441 $\chi^2$/NDF:16.4/22

Left: -147.073+/-13.496 $\chi^2$/NDF: 45.5/47

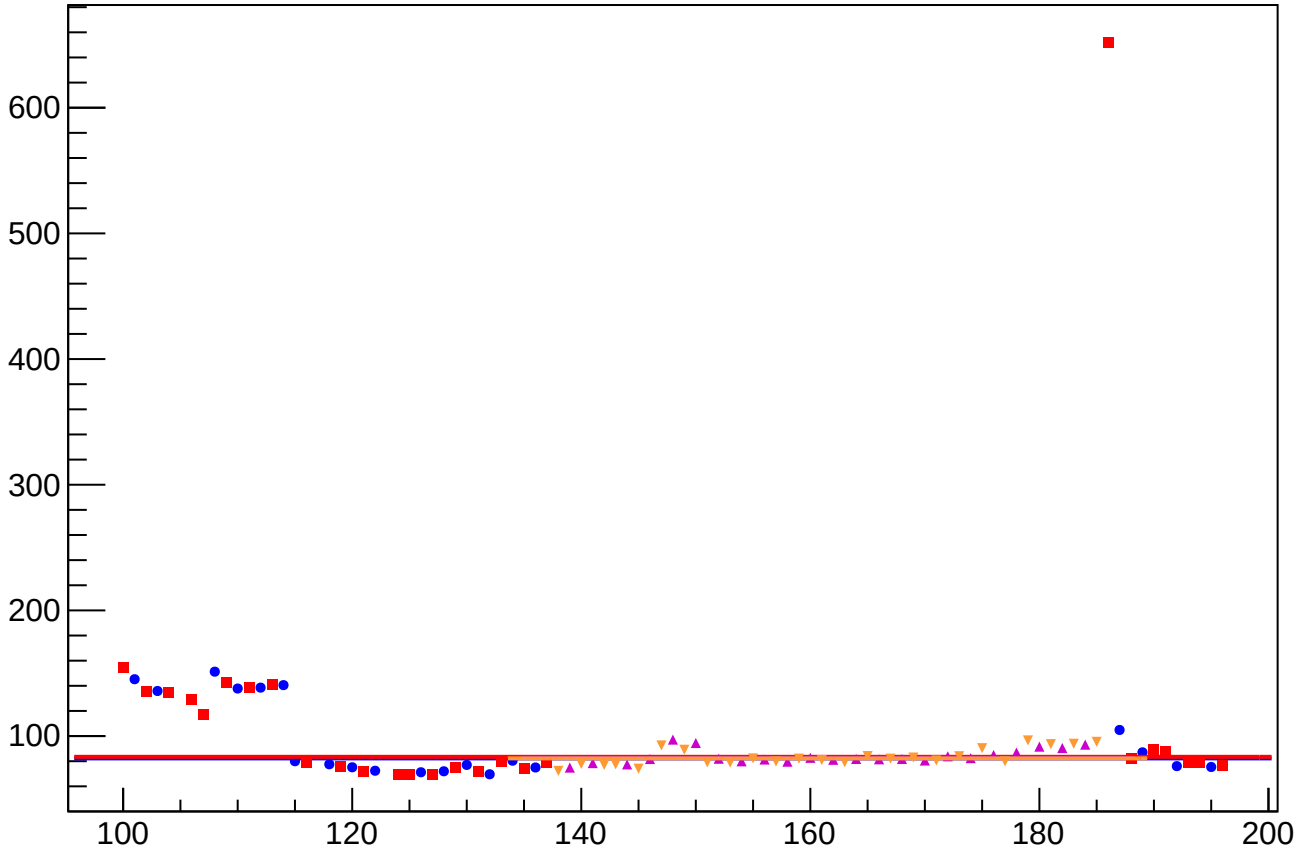
Right: 15.708+/-18.446 $\chi^2$/NDF: 50.3/45

In: -87.164+/-15.790 $\chi^2$/NDF:49.4/42

Out: -93.179+/-15.043 $\chi^2$/NDF:97.0/50

All: -90.317+/-10.892 $\chi^2$/NDF: 146.5/93

# eigen_dit_asym_sam1_rms vs Slug, Sign Corrected




Right In: 82.236+/-0.019 $\chi^2$/NDF: 1086257.6/19

Left Out: 82.247+/-0.013 $\chi^2$/NDF:216548.5/24

Right Out: 83.489+/-0.018 $\chi^2$/NDF: 1770878.3/25

Left In: 82.993+/-0.014 $\chi^2$/NDF:145607.1/22

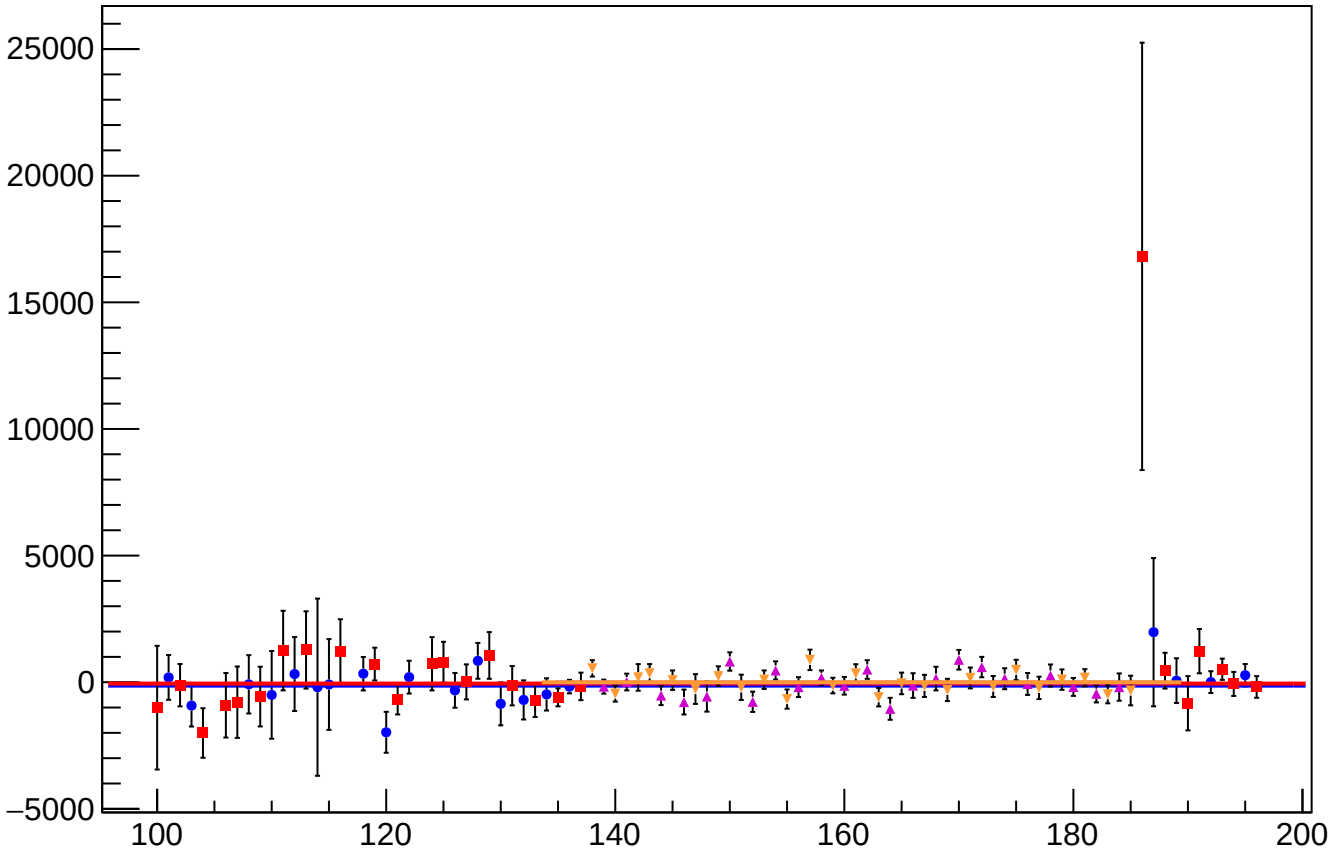
Left: 82.607+/-0.010 $\chi^2$/NDF: 363680.5/47

Right: 82.907+/-0.013 $\chi^2$/NDF: 2859433.0/45

In: 82.735+/-0.011 $\chi^2$/NDF:1232896.5/42

Out: 82.690+/-0.011 $\chi^2$/NDF:1990554.8/50

All: 82.711+/-0.008 $\chi^2$/NDF: 3223460.1/93




Right In: -134.616+/-146.726 $\chi^2$/NDF: 12.3/19

Left Out: -3.094+/-78.582 $\chi^2$/NDF:23.5/24

Right Out: -52.863+/-138.679 $\chi^2$/NDF: 25.7/25

Left In: -16.519+/-80.410 $\chi^2$/NDF:34.9/22

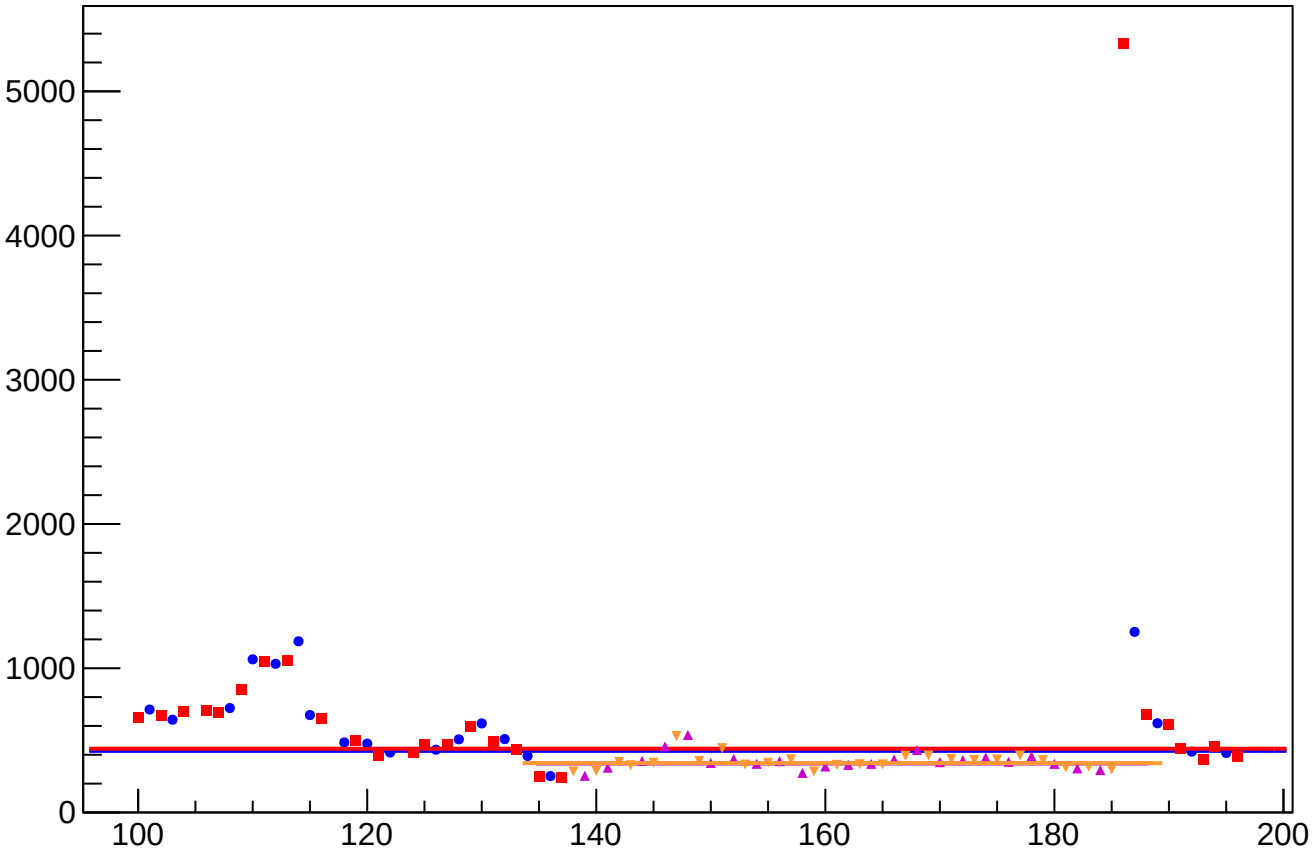
Left: -9.652+/-56.201 $\chi^2$/NDF: 58.4/47

Right: -91.436+/-100.786 $\chi^2$/NDF: 38.1/45

In: -43.795+/-70.515 $\chi^2$/NDF:47.7/42

Out: -15.190+/-68.368 $\chi^2$/NDF:49.3/50

All: -29.051+/-49.085 $\chi^2$/NDF: 97.0/93




Right In: 427.155+/-0.104 $\chi^2$/NDF: 2513189.2/19

Left Out: 341.918+/-0.056 $\chi^2$/NDF:653932.3/24

Right Out: 441.914+/-0.098 $\chi^2$/NDF: 3351531.2/25

Left In: 339.430+/-0.057 $\chi^2$/NDF:846709.1/22

Left: 340.702+/-0.040 $\chi^2$/NDF: 1501620.7/47

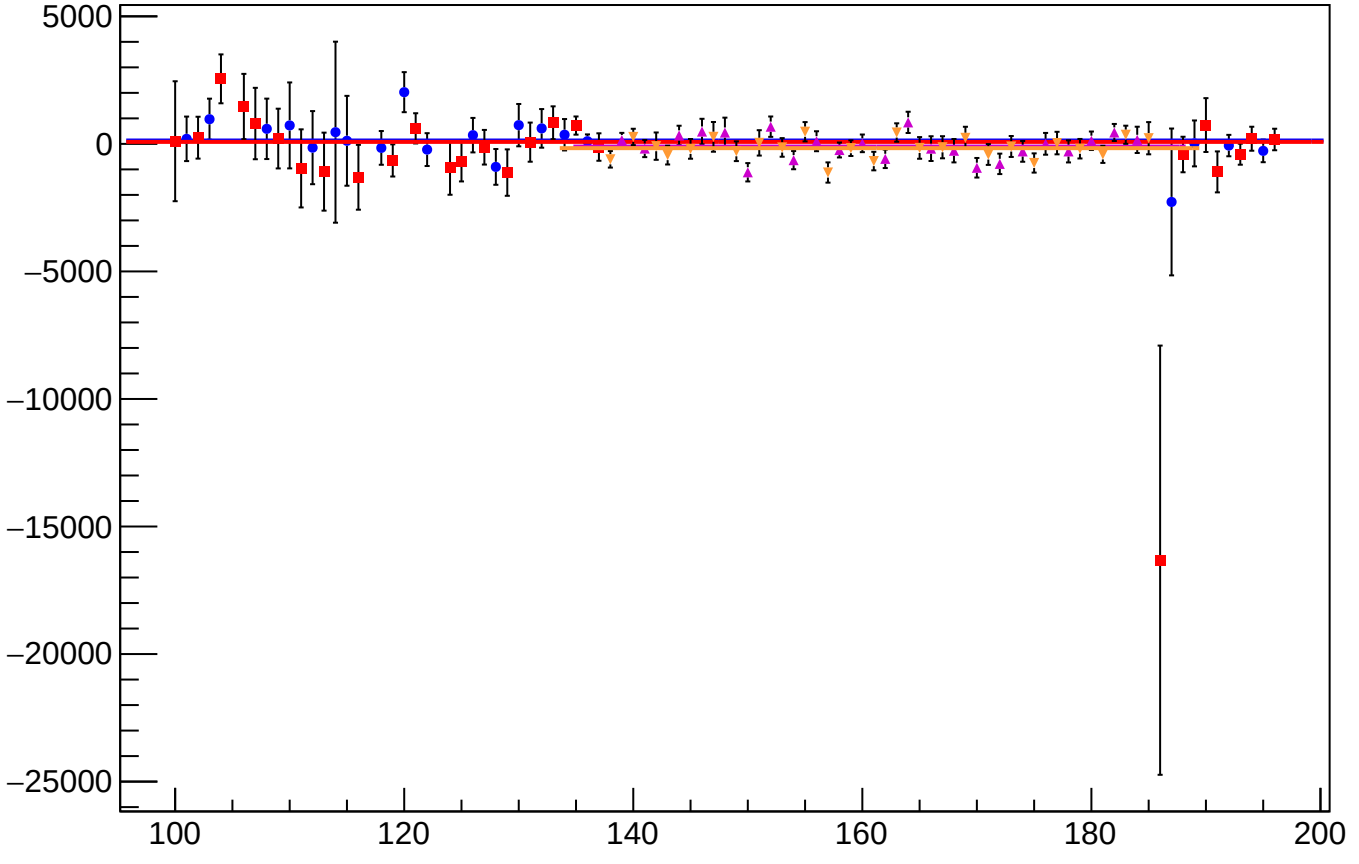
Right: 434.951+/-0.071 $\chi^2$/NDF: 5875408.5/45

In: 359.691+/-0.050 $\chi^2$/NDF:3909711.6/42

Out: 366.222+/-0.048 $\chi^2$/NDF:4792600.6/50

All: 363.057+/-0.035 $\chi^2$/NDF: 8711154.0/93

# asym_sam1_mean vs Slug, Sign Corrected




Right In: 132.509+/-145.163 $\chi^2$/NDF: 12.8/19

Left Out: -167.380+/-78.179 $\chi^2$/NDF:25.6/24

Right Out: 78.445+/-136.941 $\chi^2$/NDF: 29.3/25

Left In: -104.016+/-79.995 $\chi^2$/NDF:37.5/22

Left: -136.425+/-55.912 $\chi^2$/NDF: 63.4/47

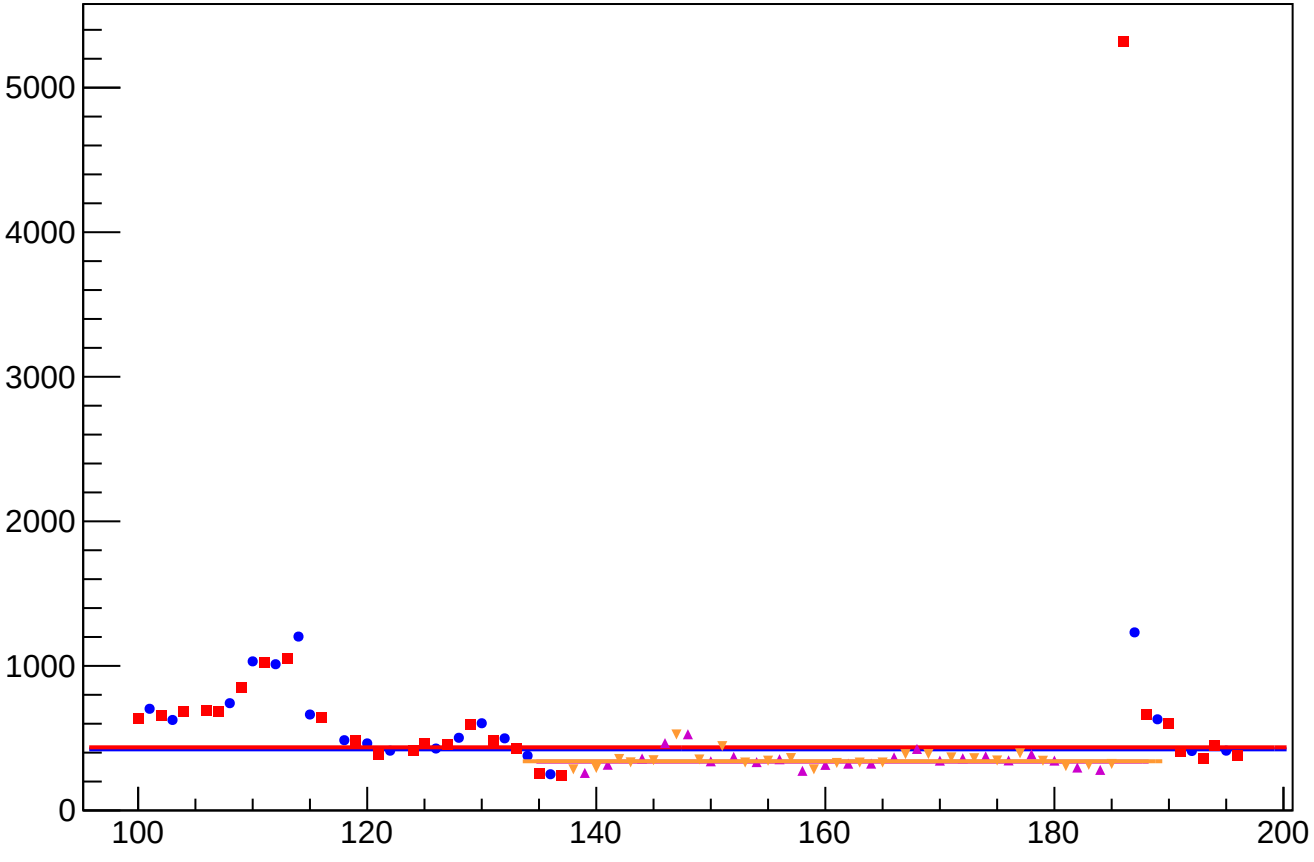
Right: 103.903+/-99.612 $\chi^2$/NDF: 42.2/45

In: -48.919+/-70.061 $\chi^2$/NDF:52.4/42

Out: -106.954+/-67.894 $\chi^2$/NDF:57.3/50

All: -78.848+/-48.757 $\chi^2$/NDF: 110.0/93

# asym_sam1_rms vs Slug, Sign Corrected




Right In: 422.721+/-0.103 $\chi^2$/NDF: 2494435.6/19

Left Out: 340.391+/-0.055 $\chi^2$/NDF:604155.3/24

Right Out: 436.753+/-0.097 $\chi^2$/NDF: 3287672.9/25

Left In: 337.759+/-0.057 $\chi^2$/NDF:820674.4/22

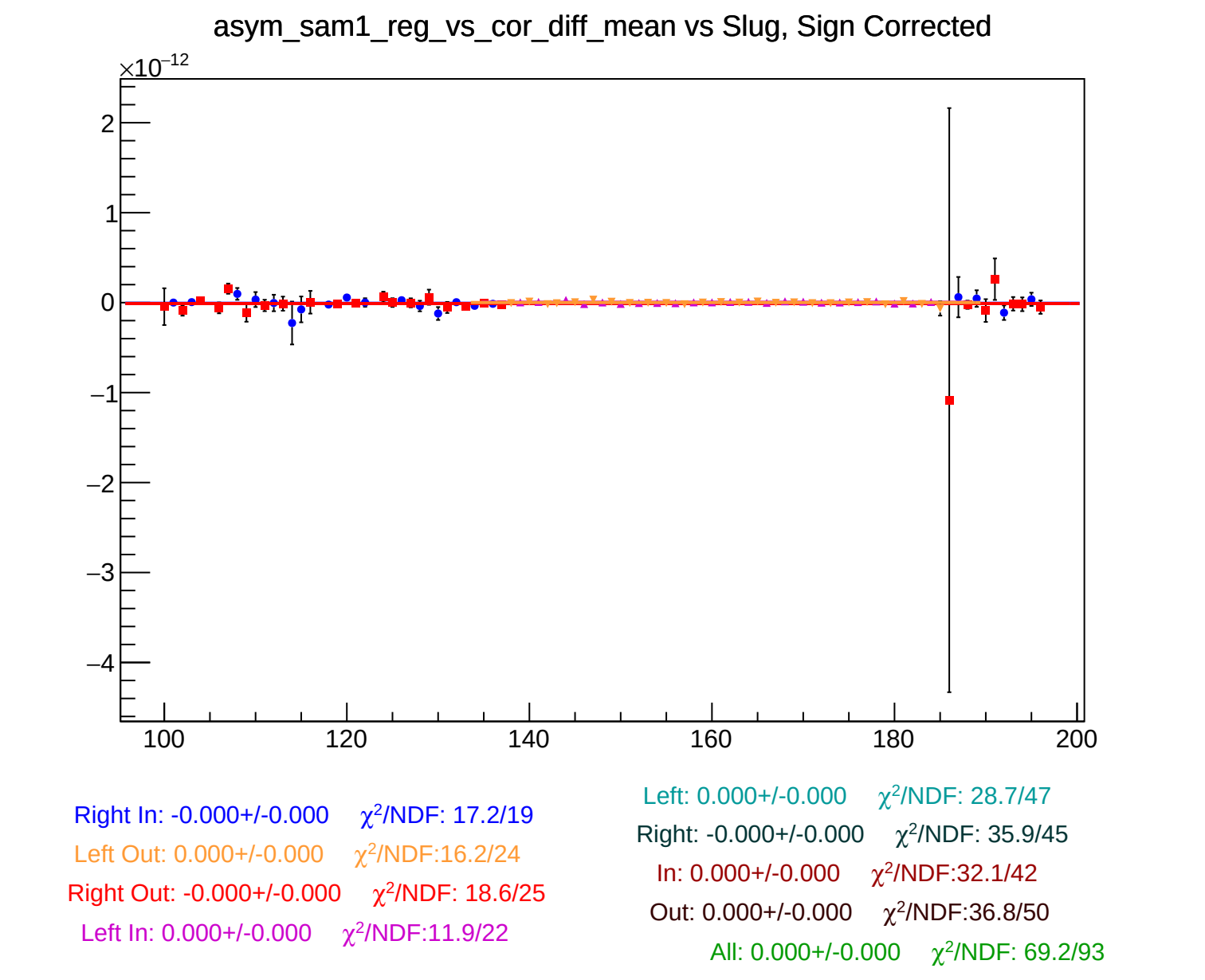
Left: 339.105+/-0.040 $\chi^2$/NDF: 1425937.5/47

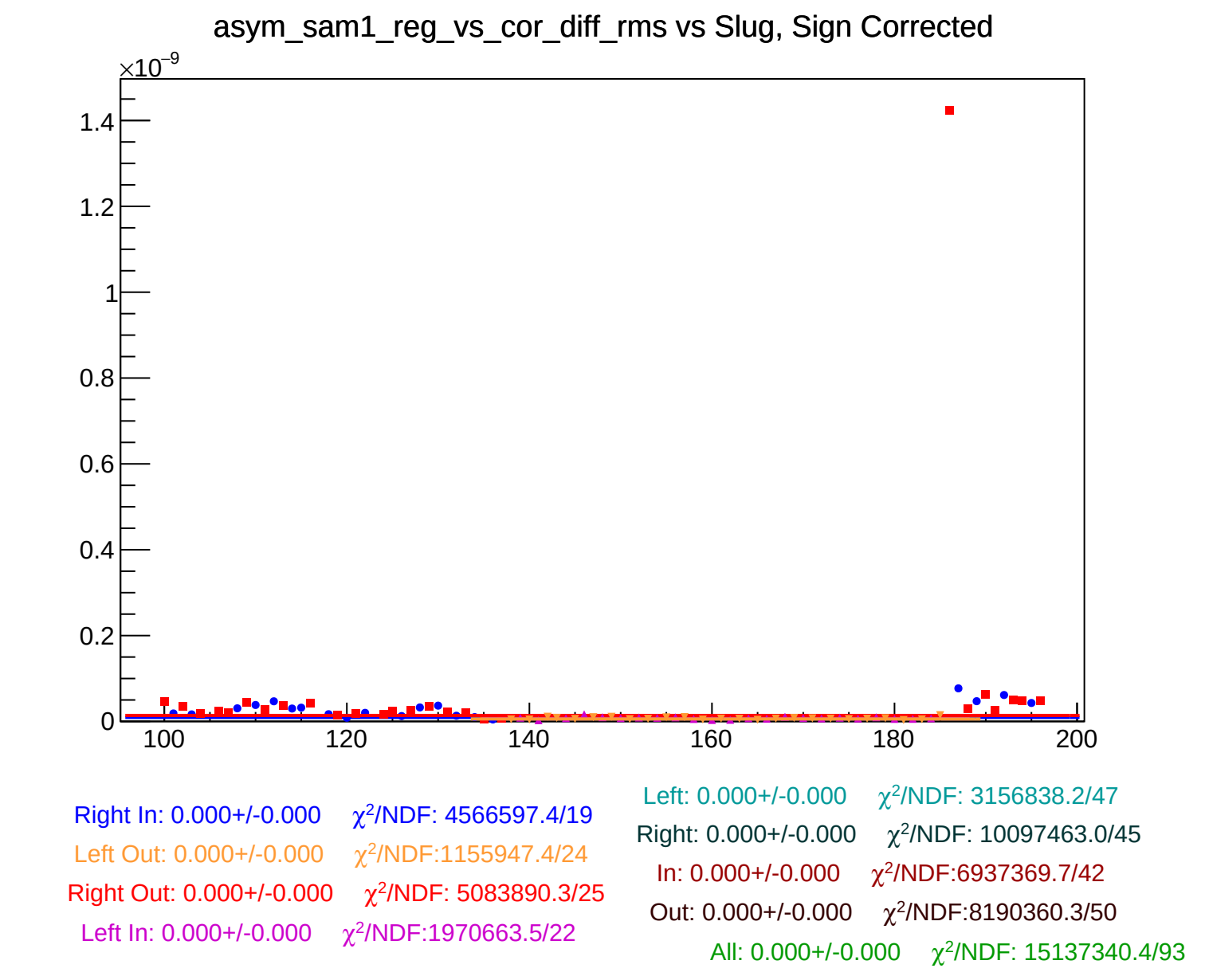
Right: 430.146+/-0.070 $\chi^2$/NDF: 5791997.2/45

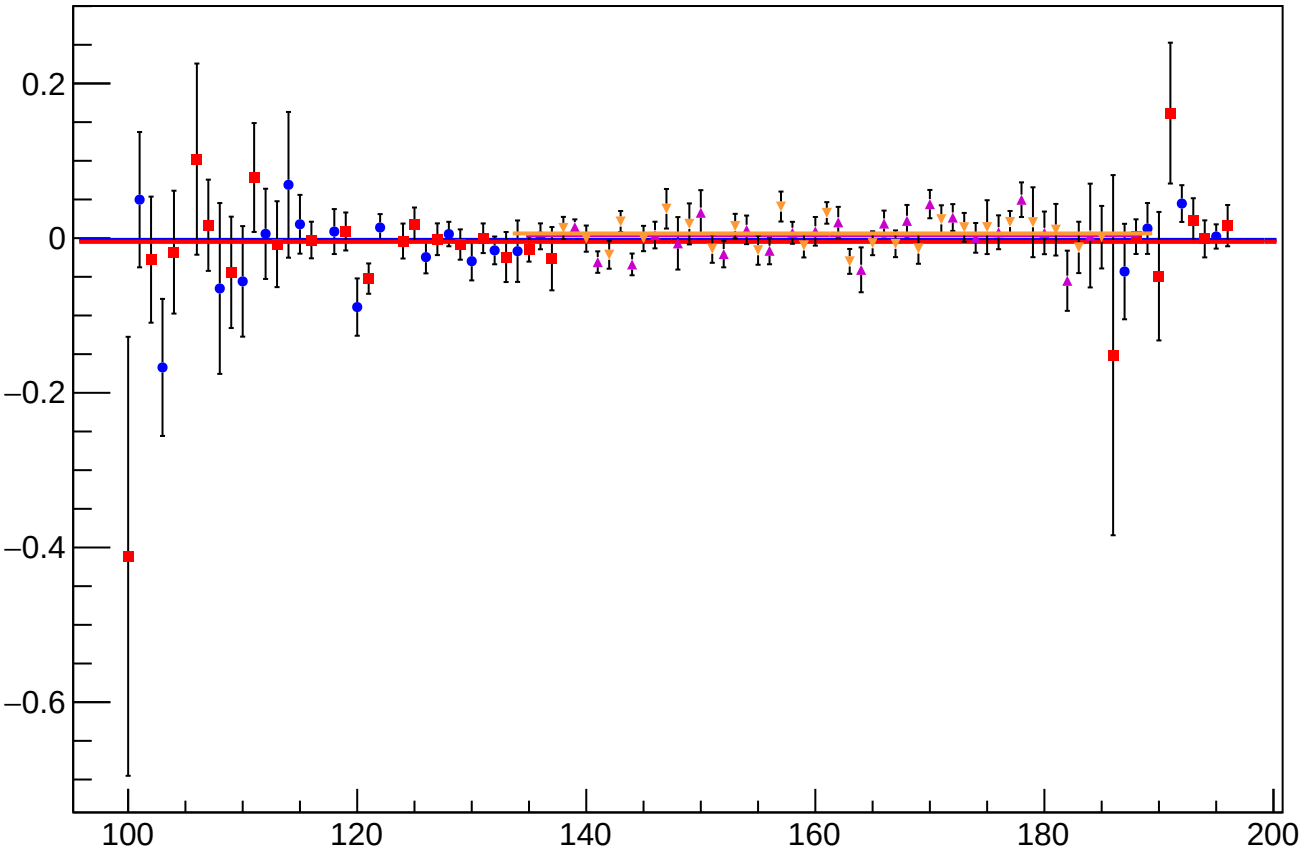
In: 357.550+/-0.050 $\chi^2$/NDF:3840640.0/42

Out: 364.078+/-0.048 $\chi^2$/NDF:4638718.3/50

All: 360.916+/-0.034 $\chi^2$/NDF: 8488311.8/93


asym_sam1_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
−4
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 17.2/19
Left Out: 0.000+/-0.000 χ²/NDF:16.2/24
Right Out: -0.000+/-0.000 χ²/NDF: 18.6/25
Left In: 0.000+/-0.000 χ²/NDF:11.9/22
Left: 0.000+/-0.000 χ²/NDF: 28.7/47
Right: -0.000+/-0.000 χ²/NDF: 35.9/45
In: 0.000+/-0.000 χ²/NDF:32.1/42
Out: 0.000+/-0.000 χ²/NDF:36.8/50
All: 0.000+/-0.000 χ²/NDF: 69.2/93


asym_sam1_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4566597.4/19
Left Out: 0.000+/-0.000 χ²/NDF:1155947.4/24
Right Out: 0.000+/-0.000 χ²/NDF: 5083890.3/25
Left In: 0.000+/-0.000 χ²/NDF:1970663.5/22
Left: 0.000+/-0.000 χ²/NDF: 3156838.2/47
Right: 0.000+/-0.000 χ²/NDF: 10097463.0/45
In: 0.000+/-0.000 χ²/NDF:6937369.7/42
Out: 0.000+/-0.000 χ²/NDF:8190360.3/50
All: 0.000+/-0.000 χ²/NDF: 15137340.4/93




Right In: -0.002+/-0.006 $\chi^2$/NDF: 20.1/19

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.7/24

Right Out: -0.005+/-0.006 $\chi^2$/NDF: 18.8/25

Left In: 0.004+/-0.004 $\chi^2$/NDF:37.1/22

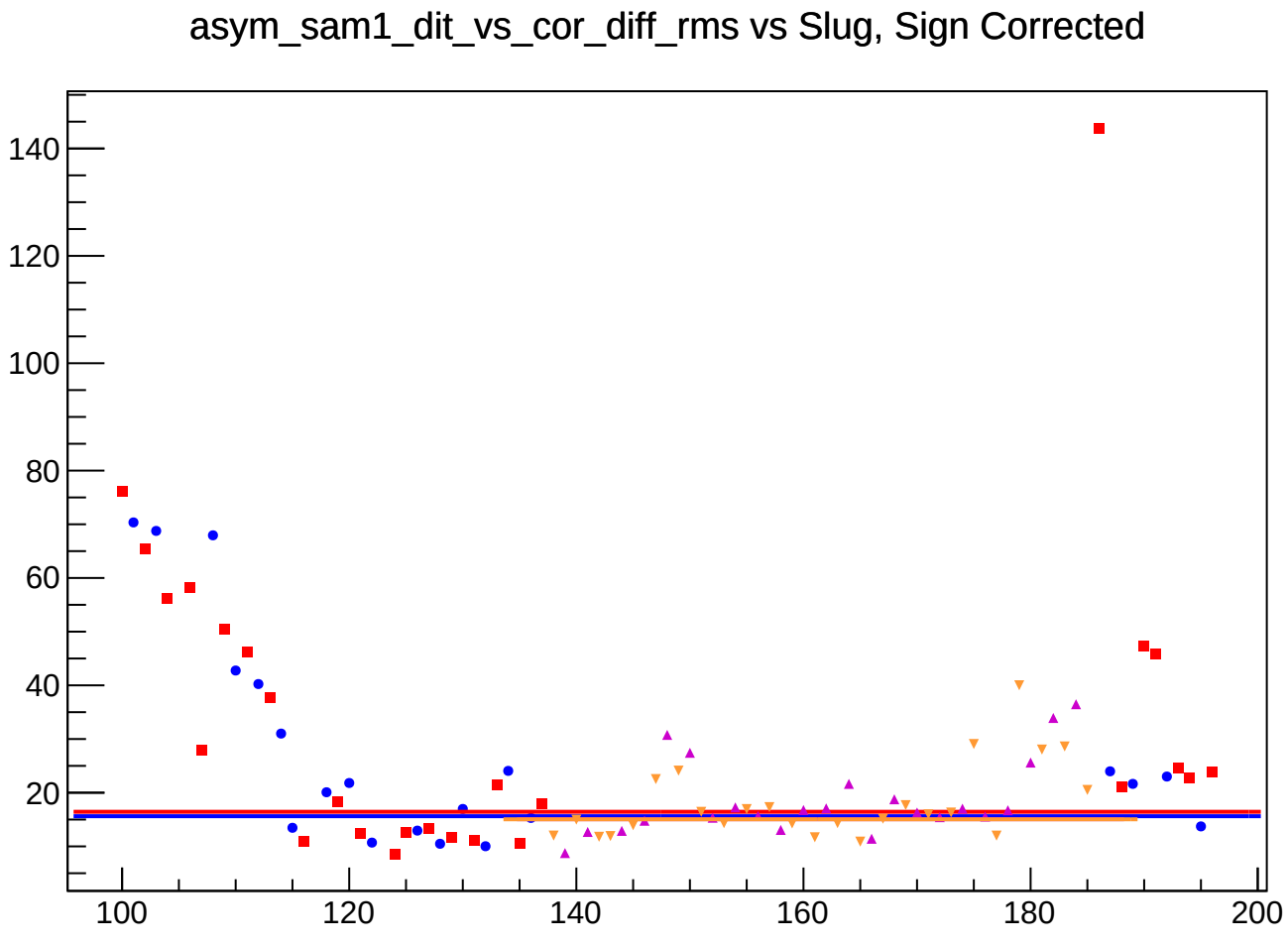
Left: 0.005+/-0.003 $\chi^2$/NDF: 64.0/47

Right: -0.004+/-0.004 $\chi^2$/NDF: 38.9/45

In: 0.002+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.003+/-0.003 $\chi^2$/NDF:48.1/50

All: 0.002+/-0.002 $\chi^2$/NDF: 106.0/93




Right In: 15.621+/-0.004 $\chi^2$/NDF: 3780139.9/19

Left Out: 15.046+/-0.003 $\chi^2$/NDF:2758075.6/24

Right Out: 16.446+/-0.004 $\chi^2$/NDF: 5478283.6/25

Left In: 15.068+/-0.003 $\chi^2$/NDF:3066591.4/22

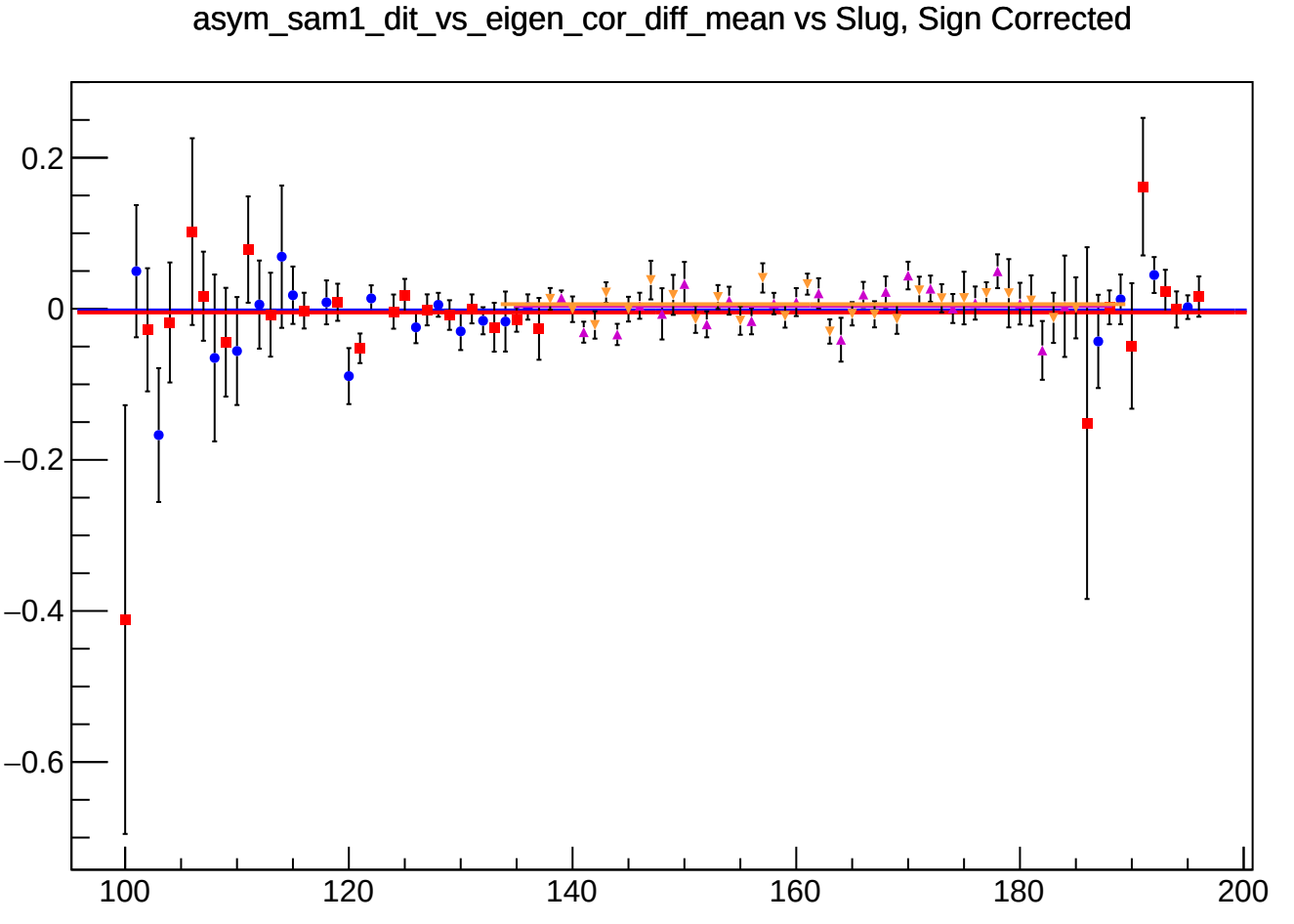
Left: 15.057+/-0.002 $\chi^2$/NDF: 5824699.0/47

Right: 16.048+/-0.003 $\chi^2$/NDF: 9278935.7/45

In: 15.233+/-0.002 $\chi^2$/NDF:6859187.8/42

Out: 15.462+/-0.002 $\chi^2$/NDF:8322279.3/50

All: 15.352+/-0.002 $\chi^2$/NDF: 15186754.2/93




Right In: -0.002+/-0.006 $\chi^2$/NDF: 20.1/19

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.7/24

Right Out: -0.005+/-0.006 $\chi^2$/NDF: 18.8/25

Left In: 0.004+/-0.004 $\chi^2$/NDF:37.1/22

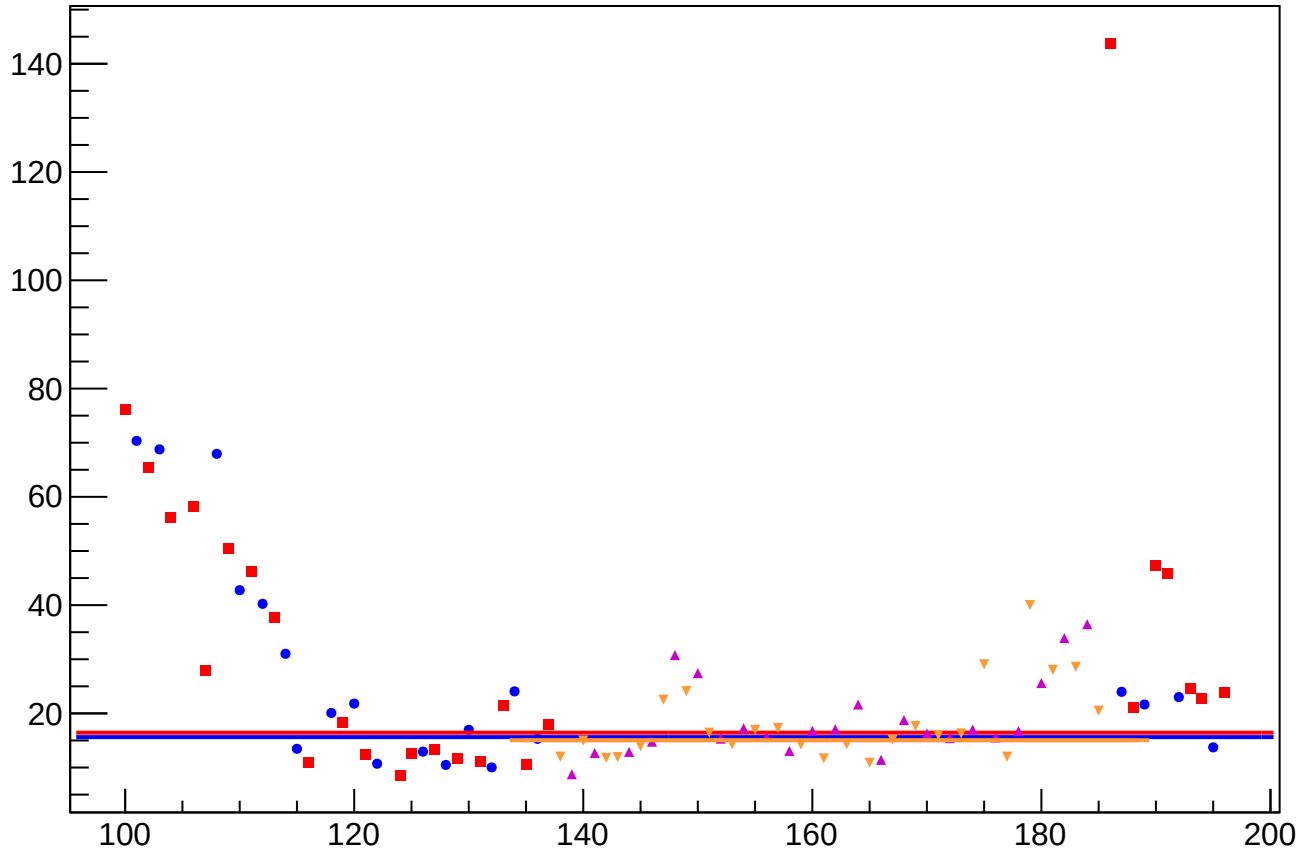
Left: 0.005+/-0.003 $\chi^2$/NDF: 64.0/47

Right: -0.004+/-0.004 $\chi^2$/NDF: 38.9/45

In: 0.002+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.003+/-0.003 $\chi^2$/NDF:48.1/50

All: 0.002+/-0.002 $\chi^2$/NDF: 106.0/93




Right In: 15.621+/-0.004 $\chi^2$/NDF: 3780139.9/19

Left Out: 15.046+/-0.003 $\chi^2$/NDF:2758075.6/24

Right Out: 16.446+/-0.004 $\chi^2$/NDF: 5478283.6/25

Left In: 15.068+/-0.003 $\chi^2$/NDF:3066591.4/22

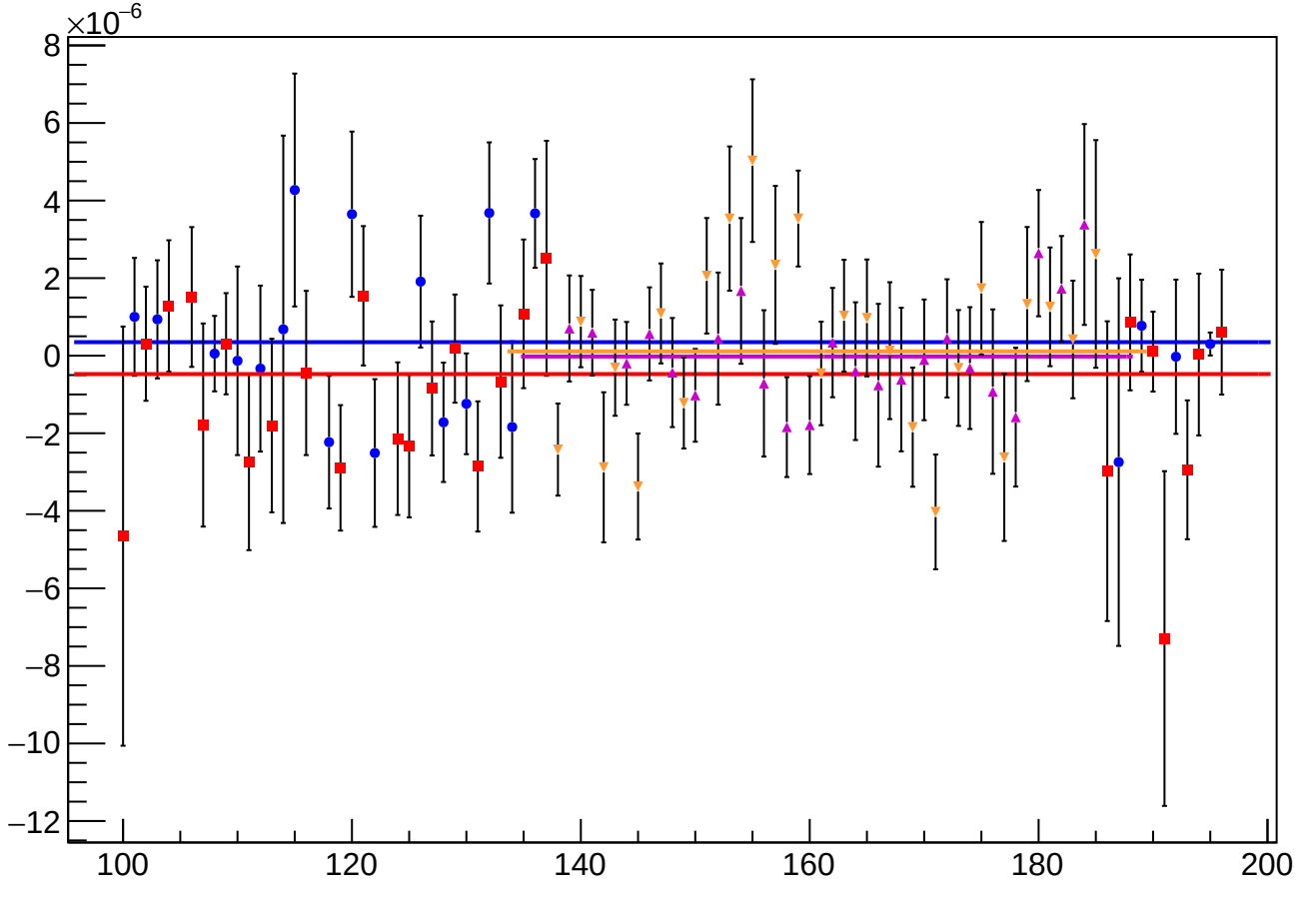
Left: 15.057+/-0.002 $\chi^2$/NDF: 5824699.0/47

Right: 16.048+/-0.003 $\chi^2$/NDF: 9278935.7/45

In: 15.233+/-0.002 $\chi^2$/NDF:6859187.8/42

Out: 15.462+/-0.002 $\chi^2$/NDF:8322279.3/50

All: 15.352+/-0.002 $\chi^2$/NDF: 15186754.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:50.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.1/22

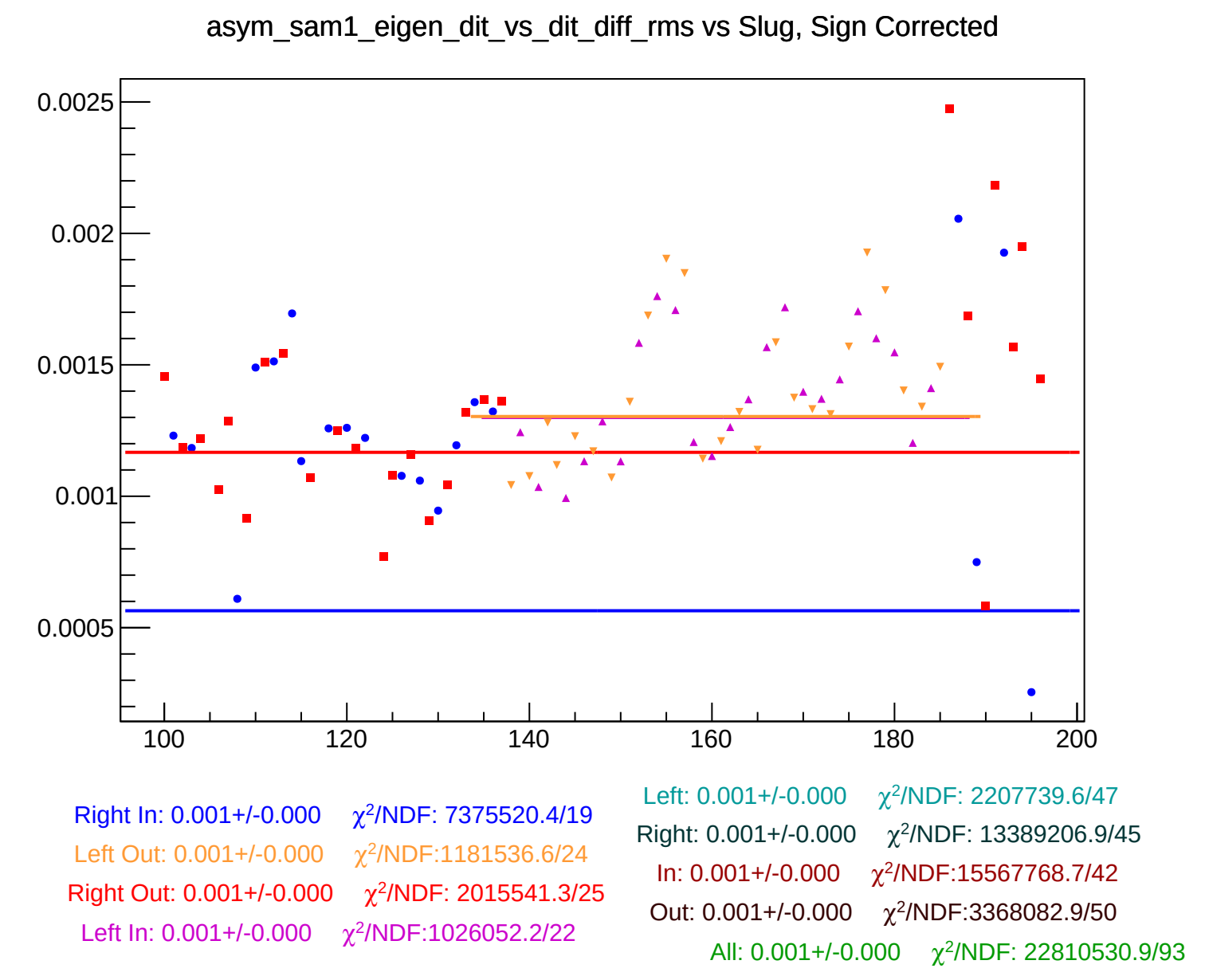
Left: 0.000+/-0.000 $\chi^2$/NDF: 64.2/47

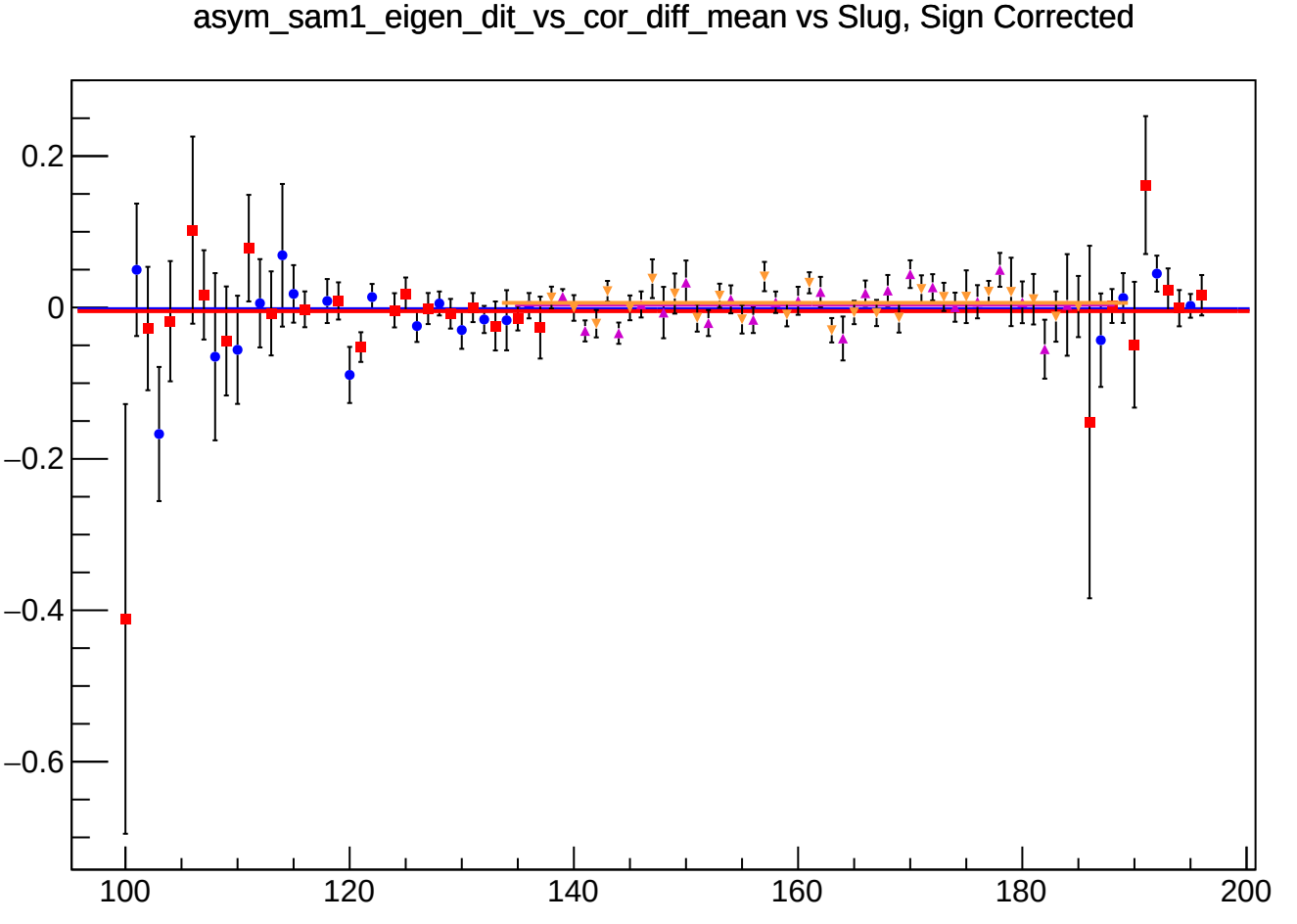
Right: 0.000+/-0.000 $\chi^2$/NDF: 48.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:38.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:72.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 112.4/93


asym_sam1_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0025
0.002
0.0015
0.001
0.0005
100
120
140
160
180
200
Right In: 0.001+/-0.000 χ²/NDF: 7375520.4/19
Left Out: 0.001+/-0.000 χ²/NDF:1181536.6/24
Right Out: 0.001+/-0.000 χ²/NDF: 2015541.3/25
Left In: 0.001+/-0.000 χ²/NDF:1026052.2/22
Left: 0.001+/-0.000 χ²/NDF: 2207739.6/47
Right: 0.001+/-0.000 χ²/NDF: 13389206.9/45
In: 0.001+/-0.000 χ²/NDF:15567768.7/42
Out: 0.001+/-0.000 χ²/NDF:3368082.9/50
All: 0.001+/-0.000 χ²/NDF: 22810530.9/93




Right In: -0.002+/-0.006 $\chi^2$/NDF: 20.1/19

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.7/24

Right Out: -0.005+/-0.006 $\chi^2$/NDF: 18.8/25

Left In: 0.004+/-0.004 $\chi^2$/NDF:37.1/22

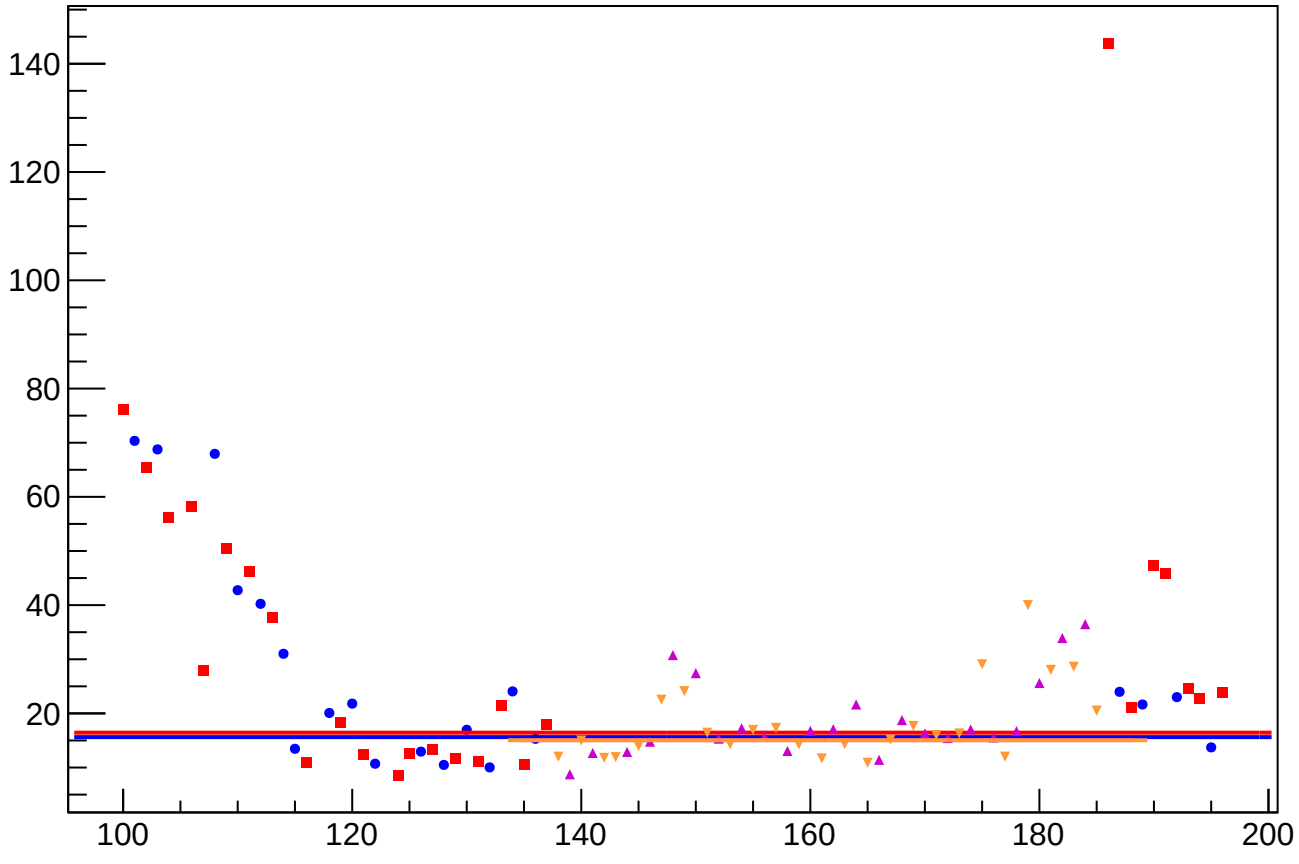
Left: 0.005+/-0.003 $\chi^2$/NDF: 64.0/47

Right: -0.004+/-0.004 $\chi^2$/NDF: 38.9/45

In: 0.002+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.003+/-0.003 $\chi^2$/NDF:48.1/50

All: 0.002+/-0.002 $\chi^2$/NDF: 106.0/93




Right In: 15.620+/-0.004 $\chi^2$/NDF: 3780142.4/19

Left Out: 15.046+/-0.003 $\chi^2$/NDF:2758285.3/24

Right Out: 16.446+/-0.004 $\chi^2$/NDF: 5478243.4/25

Left In: 15.067+/-0.003 $\chi^2$/NDF:3066635.3/22

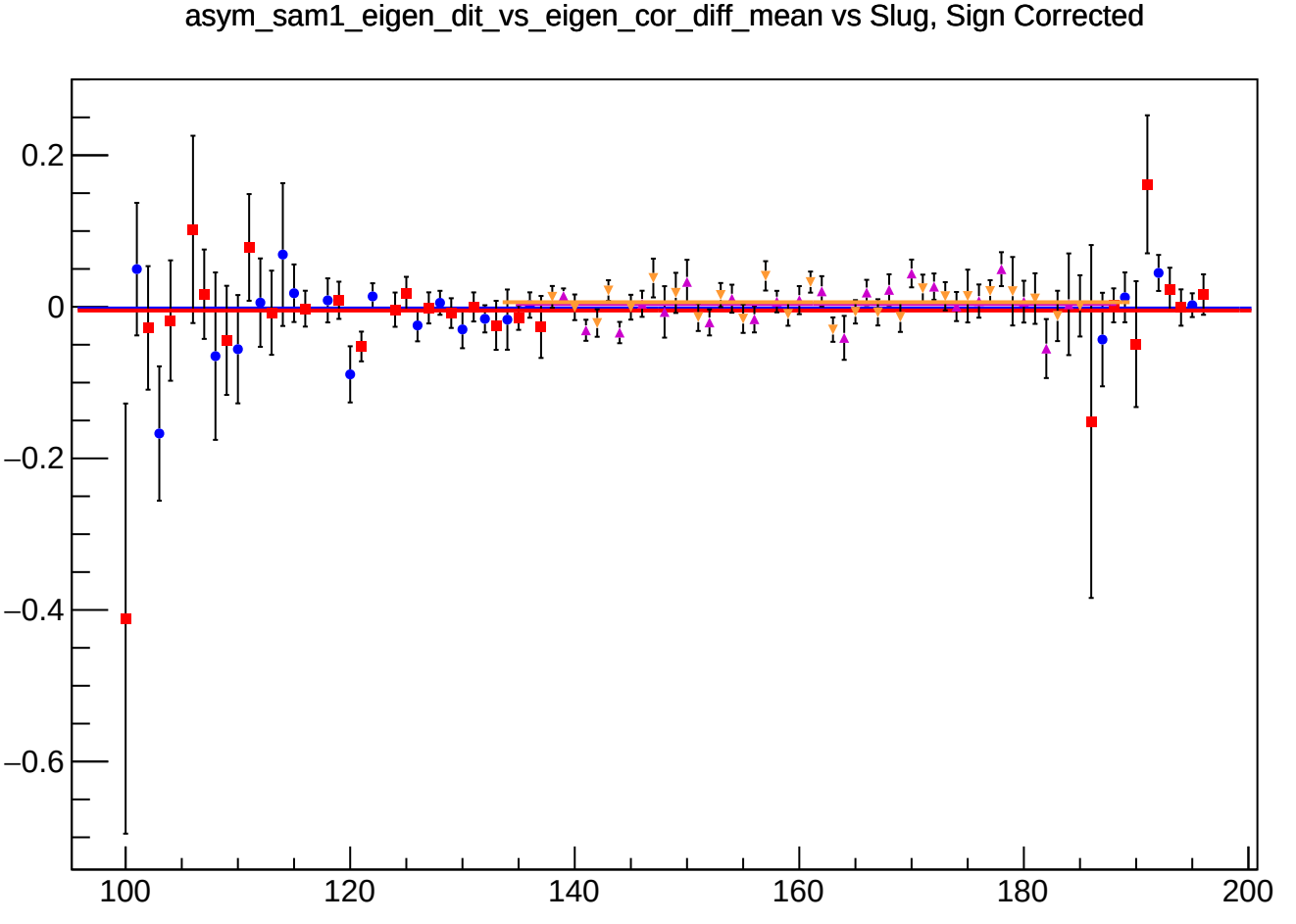
Left: 15.056+/-0.002 $\chi^2$/NDF: 5824952.7/47

Right: 16.047+/-0.003 $\chi^2$/NDF: 9278899.6/45

In: 15.233+/-0.002 $\chi^2$/NDF:6859235.2/42

Out: 15.462+/-0.002 $\chi^2$/NDF:8322463.7/50

All: 15.352+/-0.002 $\chi^2$/NDF: 15186984.1/93




Right In: -0.002+/-0.006 $\chi^2$/NDF: 20.1/19

Left Out: 0.006+/-0.004 $\chi^2$/NDF:26.7/24

Right Out: -0.005+/-0.006 $\chi^2$/NDF: 18.8/25

Left In: 0.004+/-0.004 $\chi^2$/NDF:37.1/22

Left: 0.005+/-0.003 $\chi^2$/NDF: 64.0/47

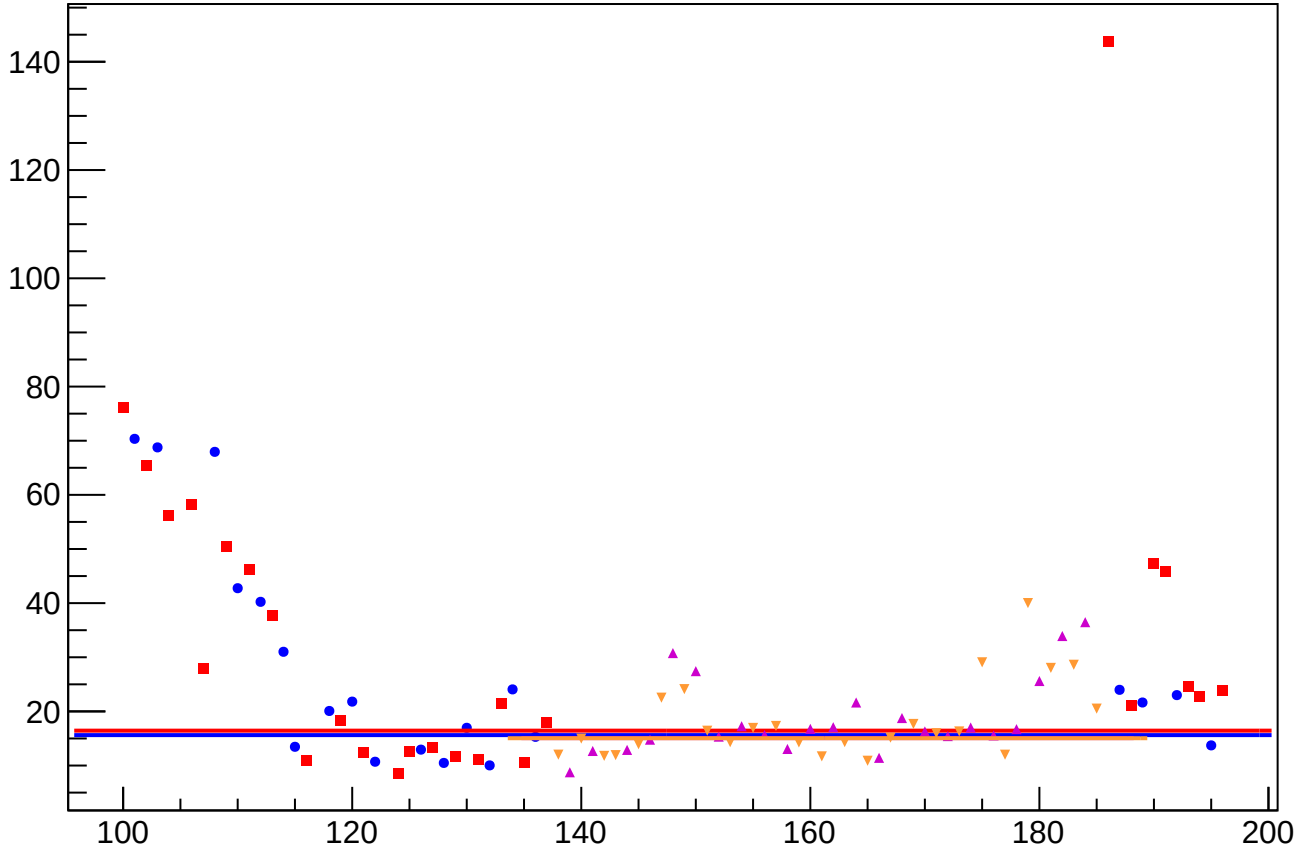
Right: -0.004+/-0.004 $\chi^2$/NDF: 38.9/45

In: 0.002+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.003+/-0.003 $\chi^2$/NDF:48.1/50

All: 0.002+/-0.002 $\chi^2$/NDF: 106.0/93

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 15.620+/-0.004 $\chi^2$/NDF: 3780142.4/19

Left Out: 15.046+/-0.003 $\chi^2$/NDF:2758285.3/24

Right Out: 16.446+/-0.004 $\chi^2$/NDF: 5478243.4/25

Left In: 15.067+/-0.003 $\chi^2$/NDF:3066635.3/22

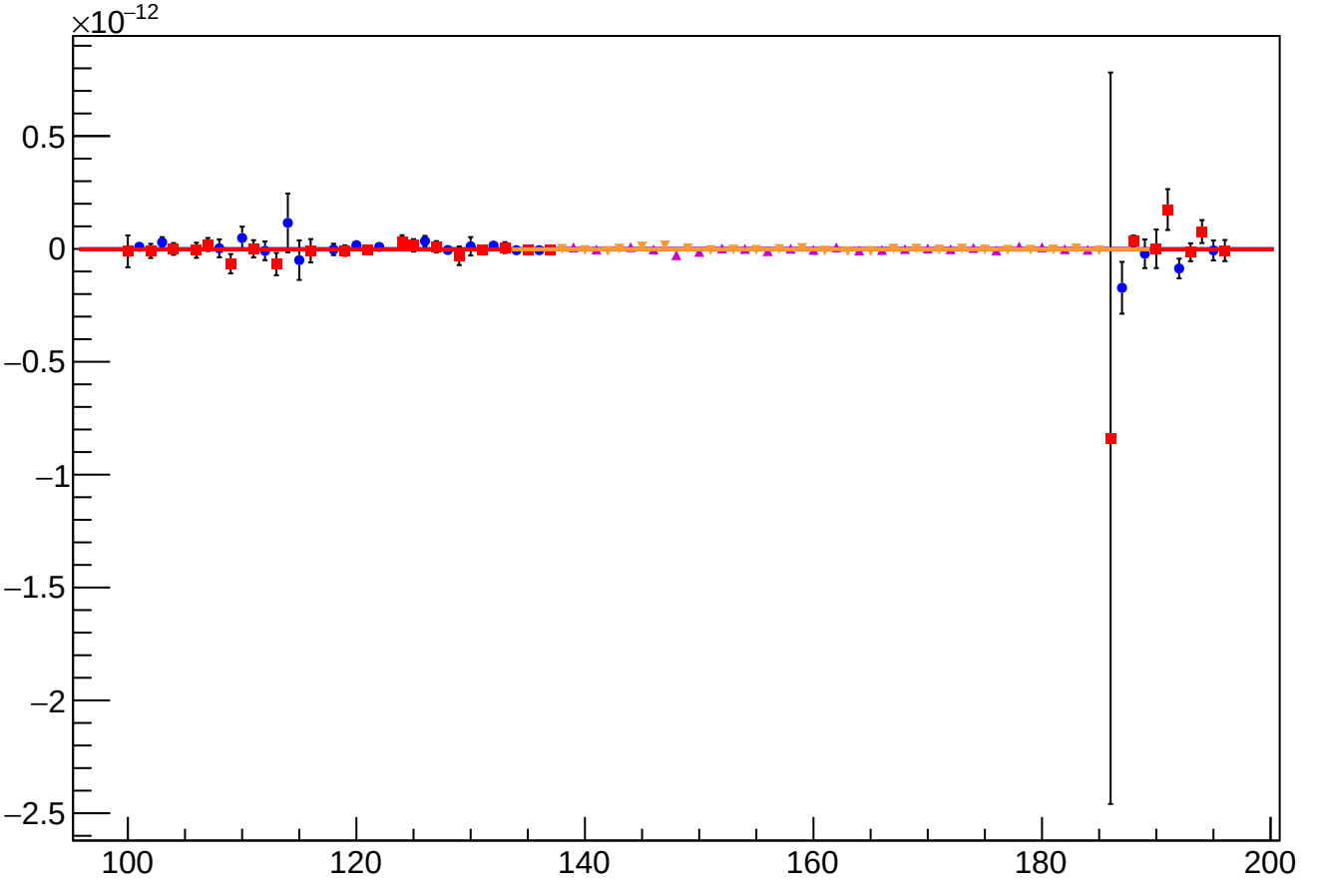
Left: 15.056+/-0.002 $\chi^2$/NDF: 5824952.7/47

Right: 16.047+/-0.003 $\chi^2$/NDF: 9278899.6/45

In: 15.233+/-0.002 $\chi^2$/NDF:6859235.2/42

Out: 15.462+/-0.002 $\chi^2$/NDF:8322463.7/50

All: 15.352+/-0.002 $\chi^2$/NDF: 15186984.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 15.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.3/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 36.9/47

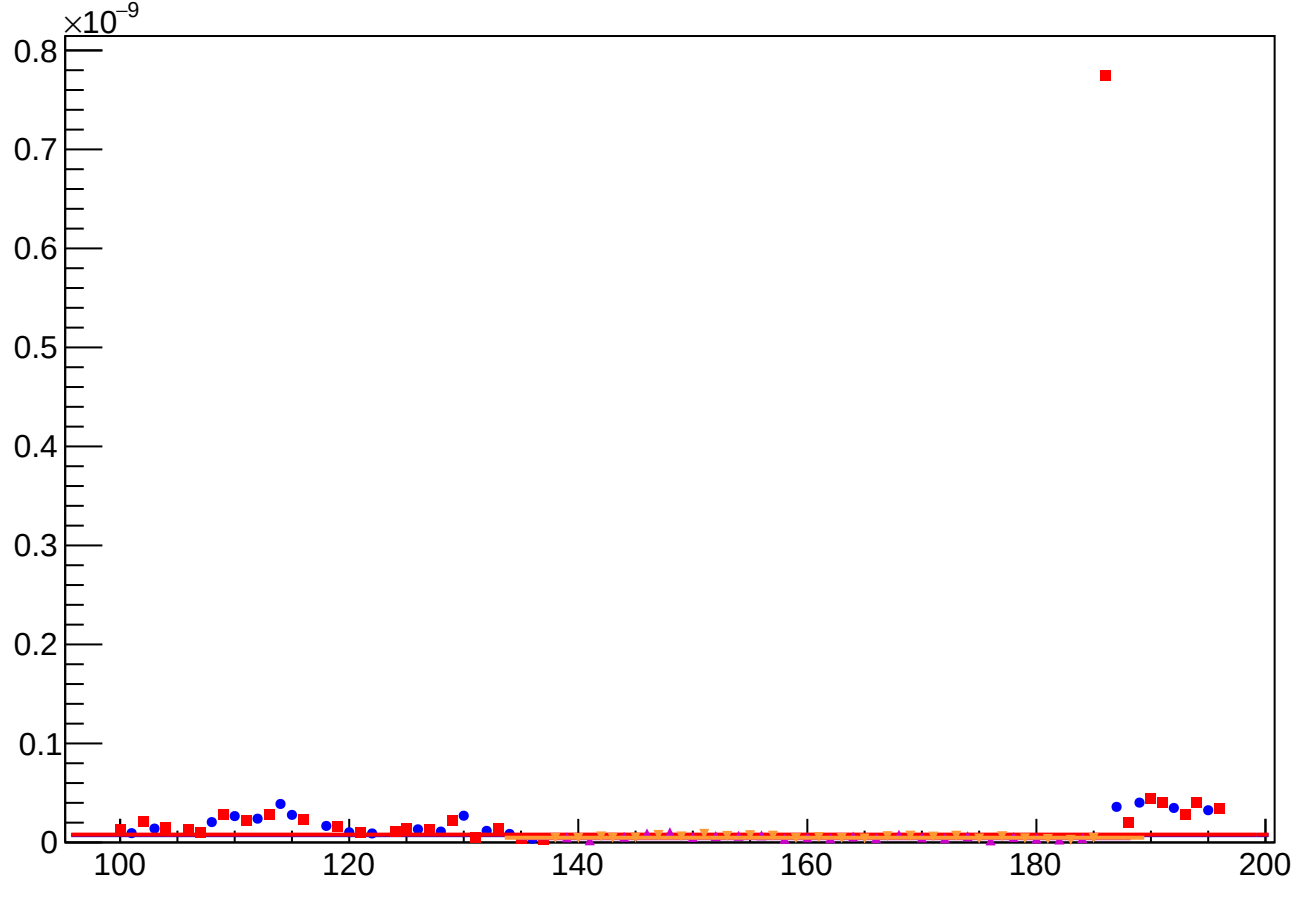
Right: -0.000+/-0.000 $\chi^2$/NDF: 31.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:37.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:30.7/50

All: -0.000+/-0.000 $\chi^2$/NDF: 68.2/93

asym_sam1_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5666095.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2098495.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7874532.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3526134.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5756687.2/47

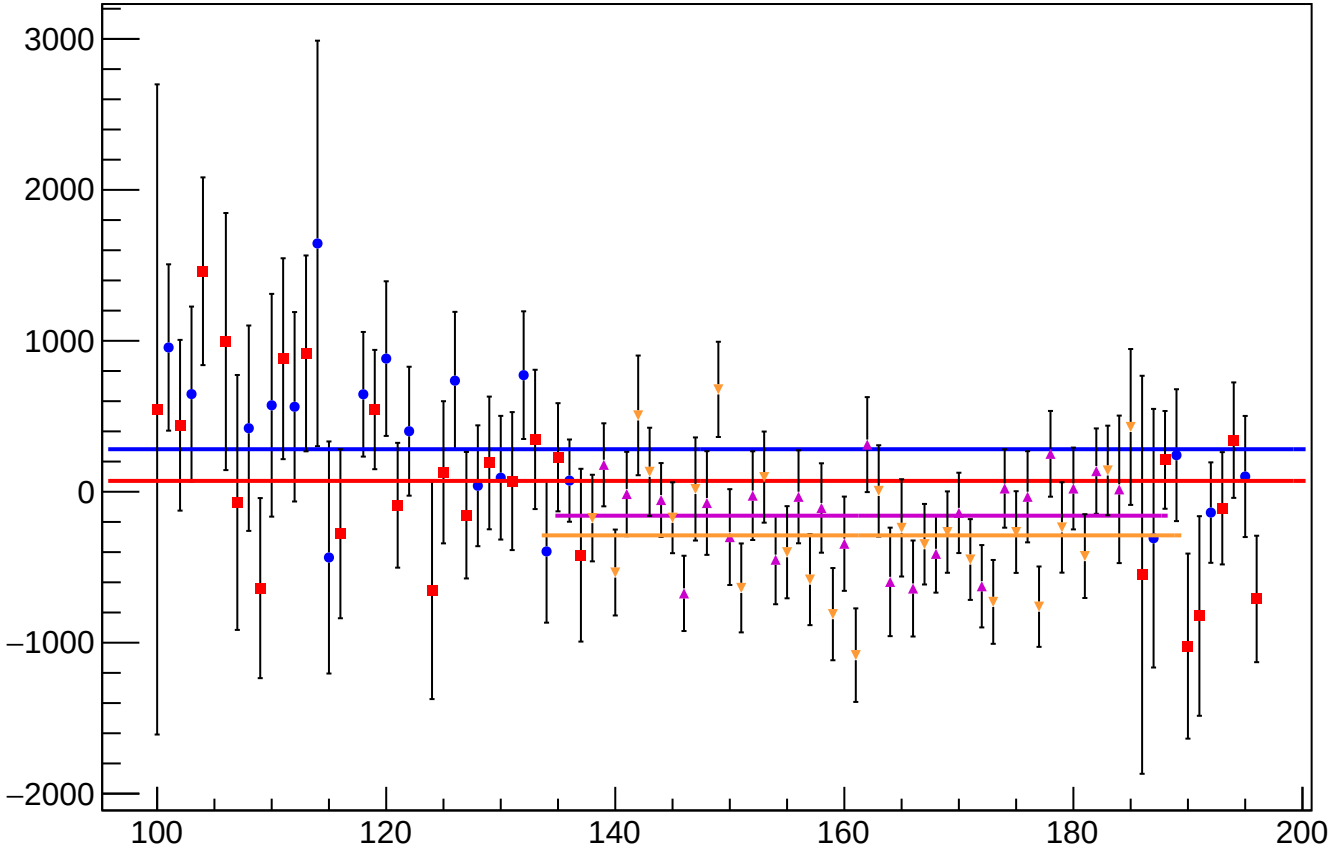
Right: 0.000+/-0.000 $\chi^2$/NDF: 13562145.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:10388018.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11163544.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21706503.3/93

# reg_asym_sam2_mean vs Slug, Sign Corrected




Right In: 281.818+/-103.911 $\chi^2$/NDF: 14.3/19

Left Out: -288.924+/-59.035 $\chi^2$/NDF:42.4/24

Right Out: 71.869+/-98.035 $\chi^2$/NDF: 25.6/25

Left In: -158.601+/-60.708 $\chi^2$/NDF:22.5/22

Left: -225.582+/-42.323 $\chi^2$/NDF: 67.3/47

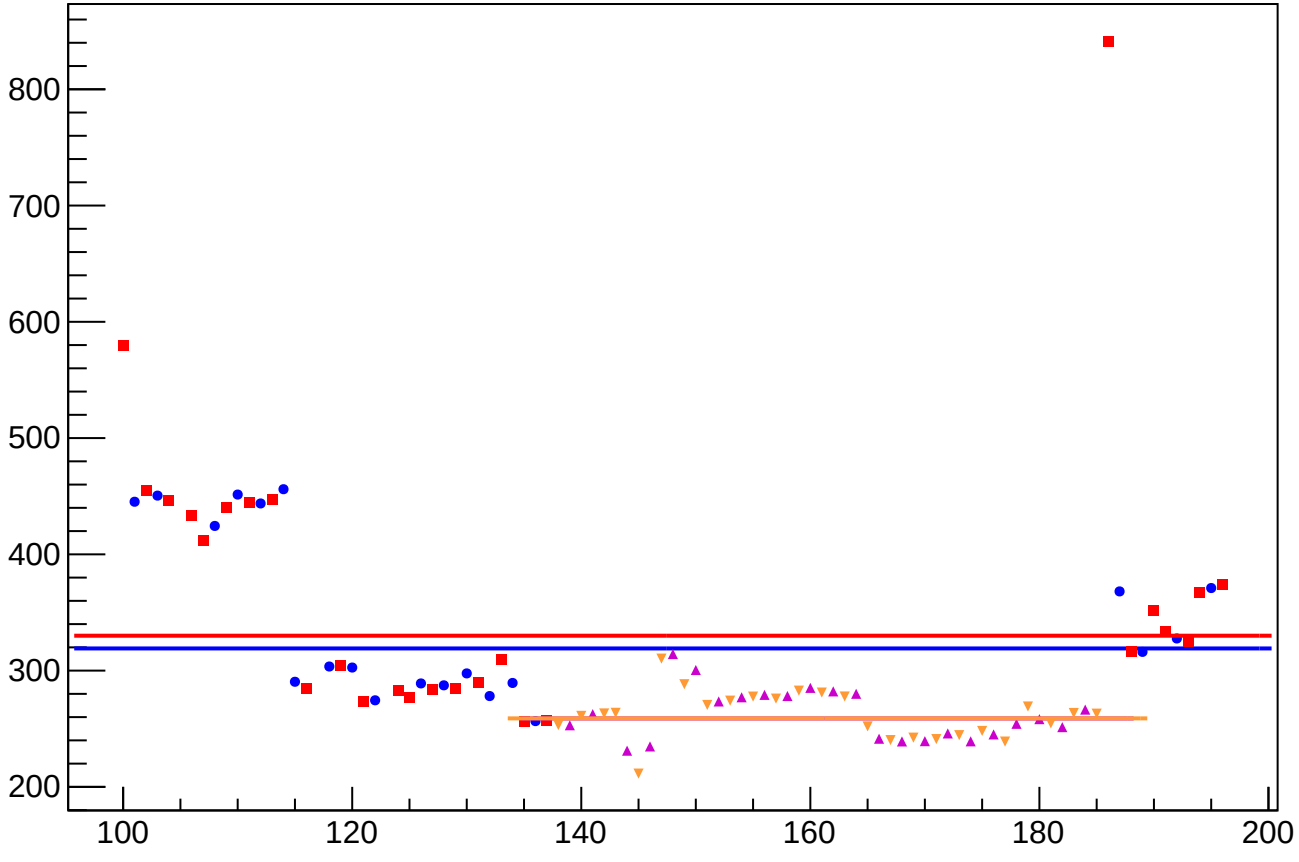
Right: 170.740+/-71.308 $\chi^2$/NDF: 42.0/45

In: -46.529+/-52.417 $\chi^2$/NDF:50.2/42

Out: -192.909+/-50.573 $\chi^2$/NDF:77.9/50

All: -122.339+/-36.395 $\chi^2$/NDF: 132.1/93

# reg_asym_sam2_rms vs Slug, Sign Corrected




Right In: 319.064+/-0.073 $\chi^2$/NDF: 649495.1/19

Left Out: 258.912+/-0.042 $\chi^2$/NDF:248740.9/24

Right Out: 330.019+/-0.069 $\chi^2$/NDF: 1060039.6/25

Left In: 258.843+/-0.043 $\chi^2$/NDF:244953.3/22

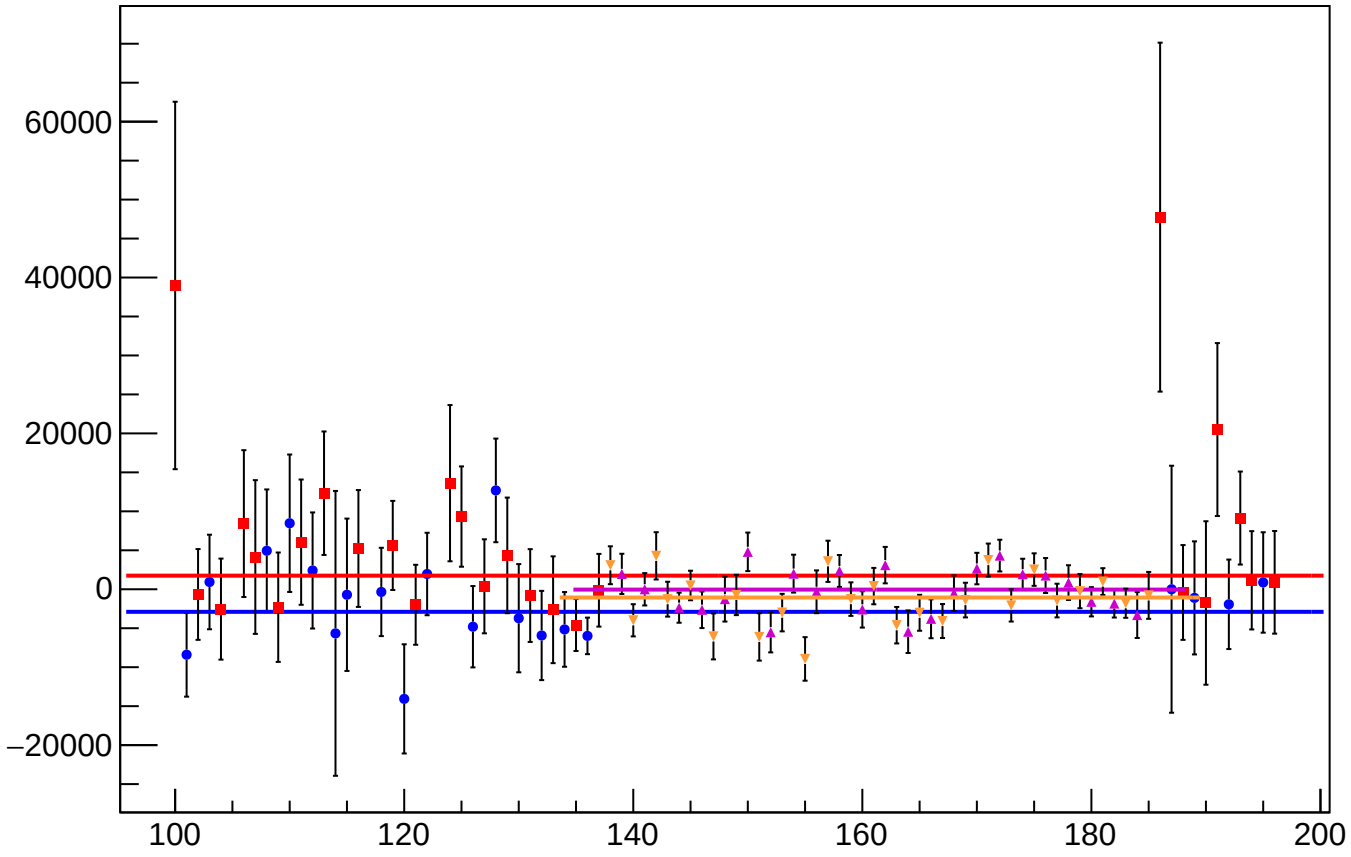
Left: 258.878+/-0.030 $\chi^2$/NDF: 493695.6/47

Right: 324.860+/-0.050 $\chi^2$/NDF: 1721296.0/45

In: 274.167+/-0.037 $\chi^2$/NDF:1395263.3/42

Out: 277.835+/-0.036 $\chi^2$/NDF:2080965.5/50

All: 276.067+/-0.026 $\chi^2$/NDF: 3481300.3/93




Right In: -2895.337+/-1266.932 $\chi^2$/NDF: 16.6/19

Left Out: -1059.229+/-454.653 $\chi^2$/NDF:41.5/24

Right Out: 1746.456+/-1288.263 $\chi^2$/NDF: 23.5/25

Left In: -44.352+/-470.700 $\chi^2$/NDF:34.2/22

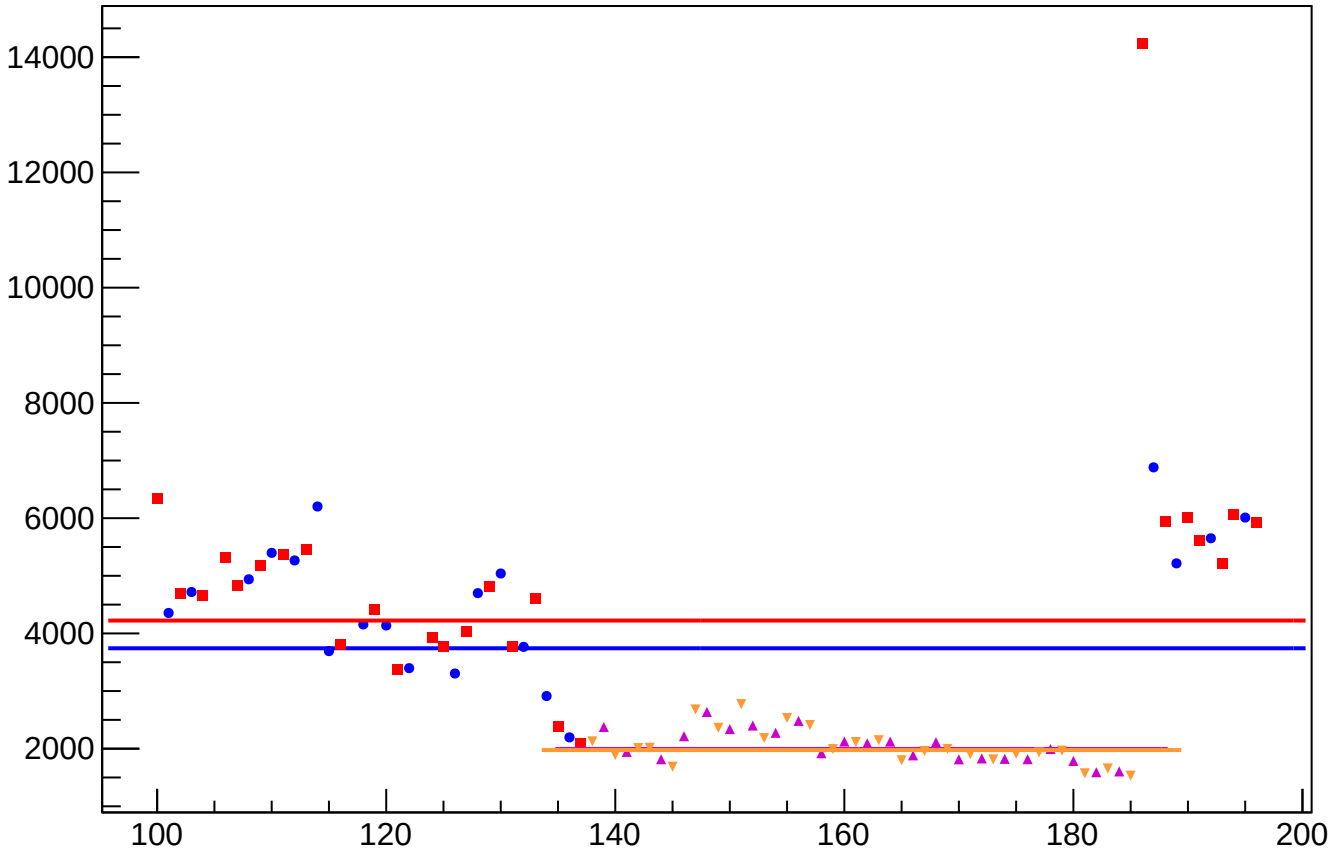
Left: -569.385+/-327.014 $\chi^2$/NDF: 78.1/47

Right: -613.188+/-903.303 $\chi^2$/NDF: 46.7/45

In: -390.150+/-441.232 $\chi^2$/NDF:55.2/42

Out: -748.480+/-428.736 $\chi^2$/NDF:69.2/50

All: -574.461+/-307.485 $\chi^2$/NDF: 124.8/93




Right In: 3742.394+/-0.896 $\chi^2$/NDF: 2025279.5/19

Left Out: 1975.967+/-0.321 $\chi^2$/NDF:763327.6/24

Right Out: 4223.385+/-0.911 $\chi^2$/NDF: 2343735.4/25

Left In: 1994.760+/-0.333 $\chi^2$/NDF:599994.9/22

Left: 1985.038+/-0.231 $\chi^2$/NDF: 1364971.8/47

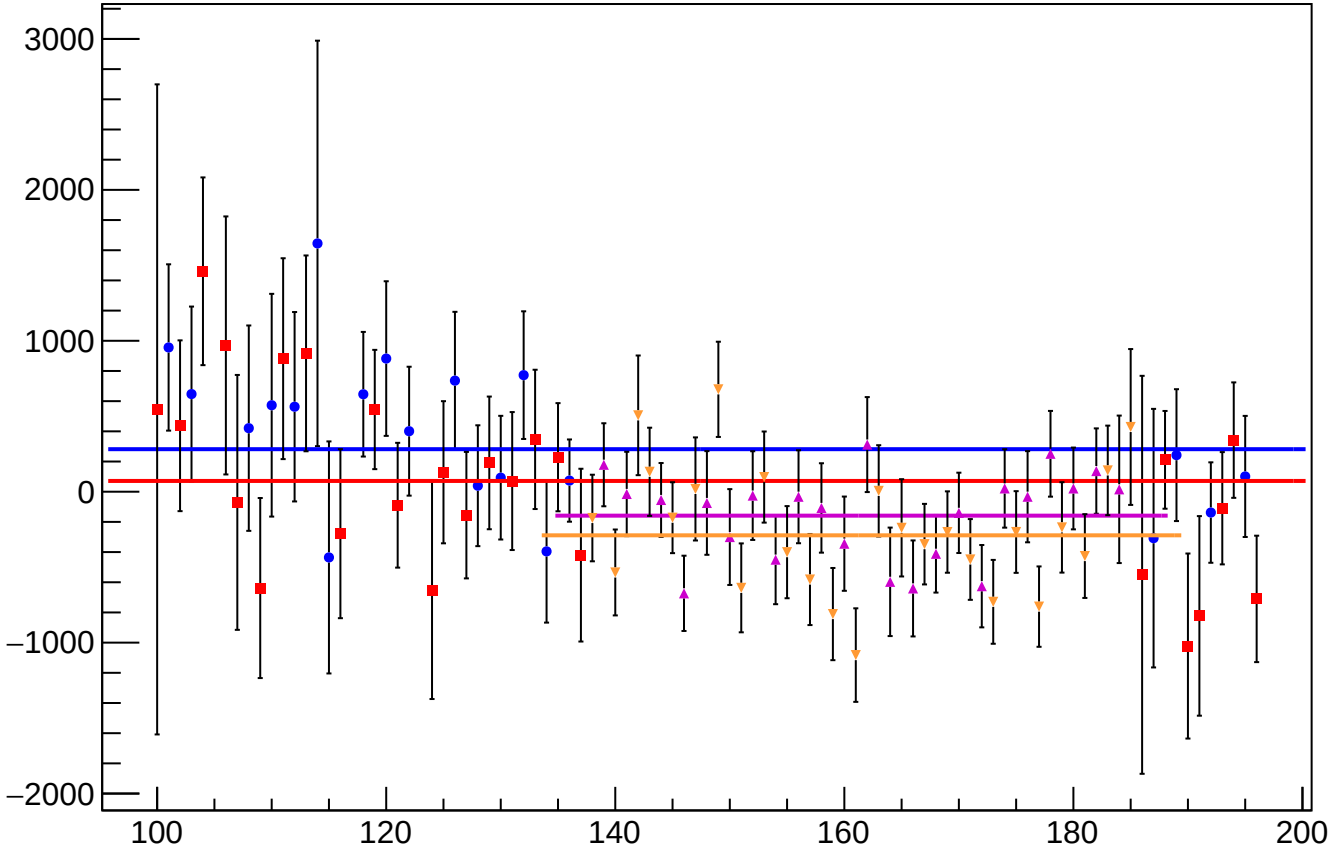
Right: 3978.875+/-0.639 $\chi^2$/NDF: 4510743.1/45

In: 2206.732+/-0.312 $\chi^2$/NDF:5969303.0/42

Out: 2224.884+/-0.303 $\chi^2$/NDF:8519703.8/50

All: 2216.069+/-0.217 $\chi^2$/NDF: 14490747.9/9

# cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 281.803+/-103.911 $\chi^2$/NDF: 14.3/19

Left Out: -288.928+/-59.035 $\chi^2$/NDF:42.4/24

Right Out: 71.304+/-98.041 $\chi^2$/NDF: 25.5/25

Left In: -158.612+/-60.708 $\chi^2$/NDF:22.5/22

Left: -225.590+/-42.323 $\chi^2$/NDF: 67.3/47

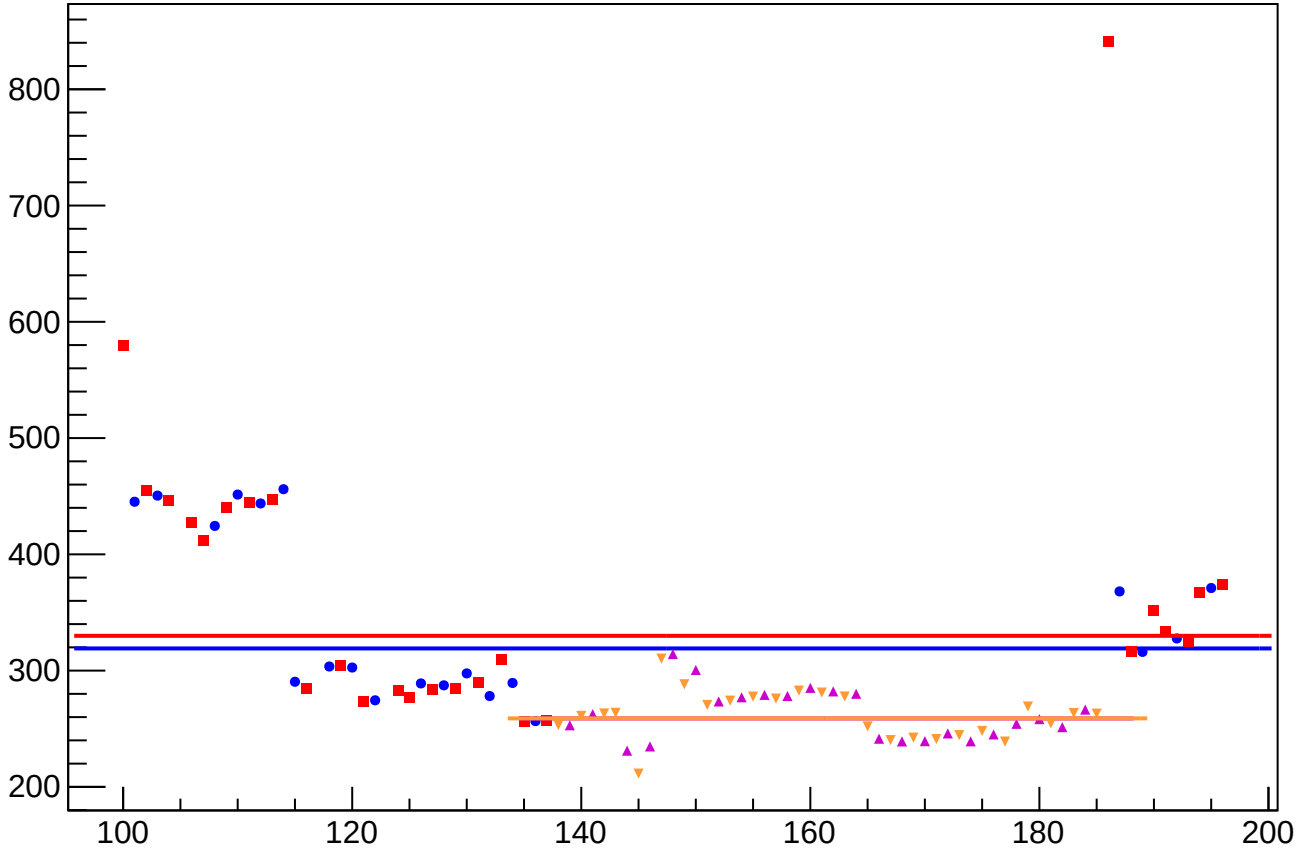
Right: 170.441+/-71.310 $\chi^2$/NDF: 41.9/45

In: -46.541+/-52.417 $\chi^2$/NDF:50.2/42

Out: -193.071+/-50.574 $\chi^2$/NDF:77.8/50

All: -122.428+/-36.396 $\chi^2$/NDF: 132.0/93

# cor_asym_sam2_rms vs Slug, Sign Corrected




Right In: 319.064+/-0.073 $\chi^2$/NDF: 649496.5/19

Left Out: 258.912+/-0.042 $\chi^2$/NDF:248740.9/24

Right Out: 329.922+/-0.069 $\chi^2$/NDF: 1056291.4/25

Left In: 258.843+/-0.043 $\chi^2$/NDF:244953.3/22

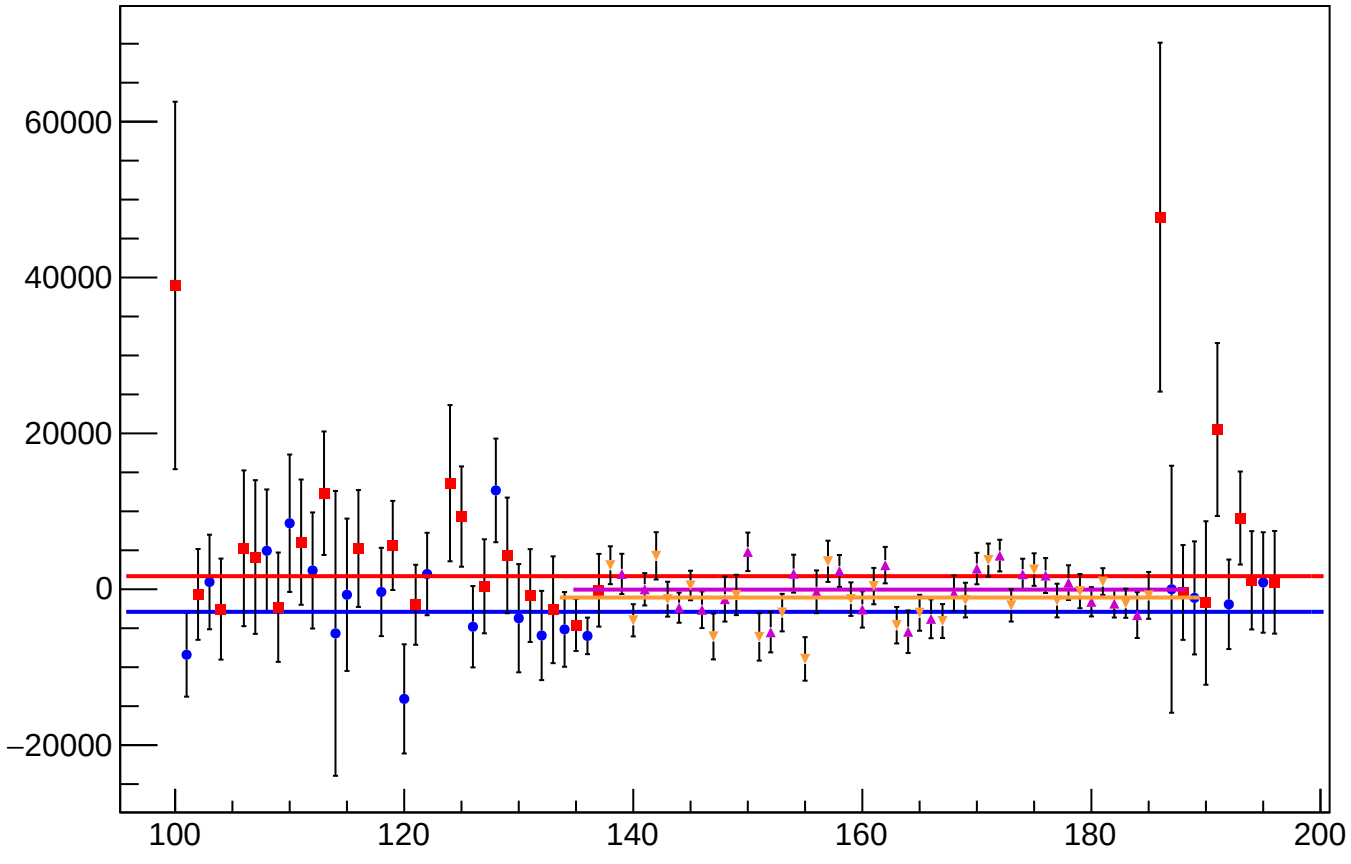
Left: 258.878+/-0.030 $\chi^2$/NDF: 493695.6/47

Right: 324.809+/-0.050 $\chi^2$/NDF: 1717340.5/45

In: 274.167+/-0.037 $\chi^2$/NDF:1395264.9/42

Out: 277.808+/-0.036 $\chi^2$/NDF:2075035.9/50

All: 276.053+/-0.026 $\chi^2$/NDF: 3475296.1/93




Right In: -2895.276+/-1266.934 $\chi^2$/NDF: 16.6/19

Left Out: -1059.232+/-454.653 $\chi^2$/NDF:41.5/24

Right Out: 1680.235+/-1289.641 $\chi^2$/NDF: 23.1/25

Left In: -44.348+/-470.700 $\chi^2$/NDF:34.2/22

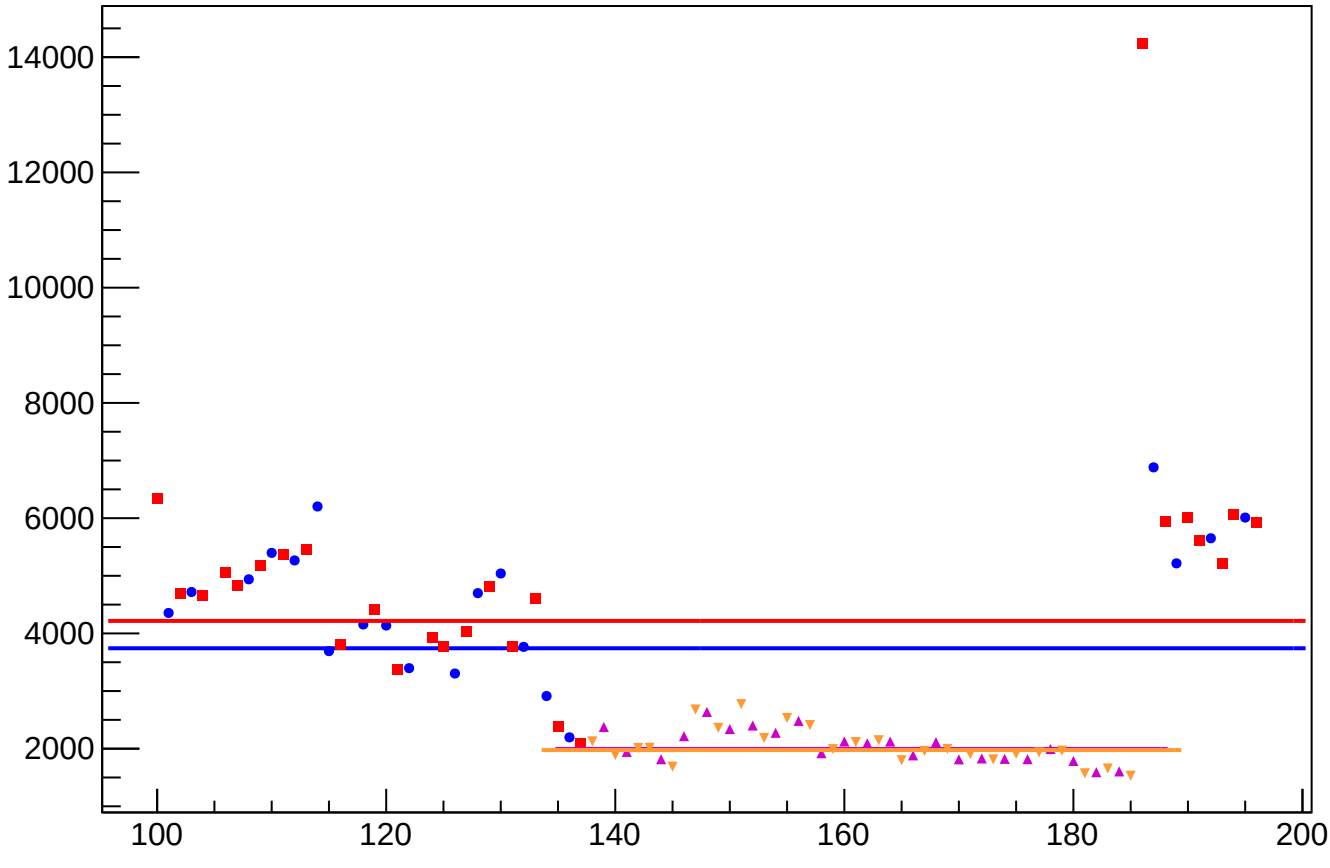
Left: -569.385+/-327.014 $\chi^2$/NDF: 78.1/47

Right: -648.157+/-903.779 $\chi^2$/NDF: 46.1/45

In: -390.138+/-441.232 $\chi^2$/NDF:55.2/42

Out: -756.394+/-428.787 $\chi^2$/NDF:68.6/50

All: -578.504+/-307.504 $\chi^2$/NDF: 124.2/93




Right In: 3742.399+/-0.896 $\chi^2$/NDF: 2025292.9/19

Left Out: 1975.967+/-0.321 $\chi^2$/NDF:763328.1/24

Right Out: 4217.120+/-0.912 $\chi^2$/NDF: 2331346.7/25

Left In: 1994.760+/-0.333 $\chi^2$/NDF:599996.2/22

Left: 1985.038+/-0.231 $\chi^2$/NDF: 1364973.6/47

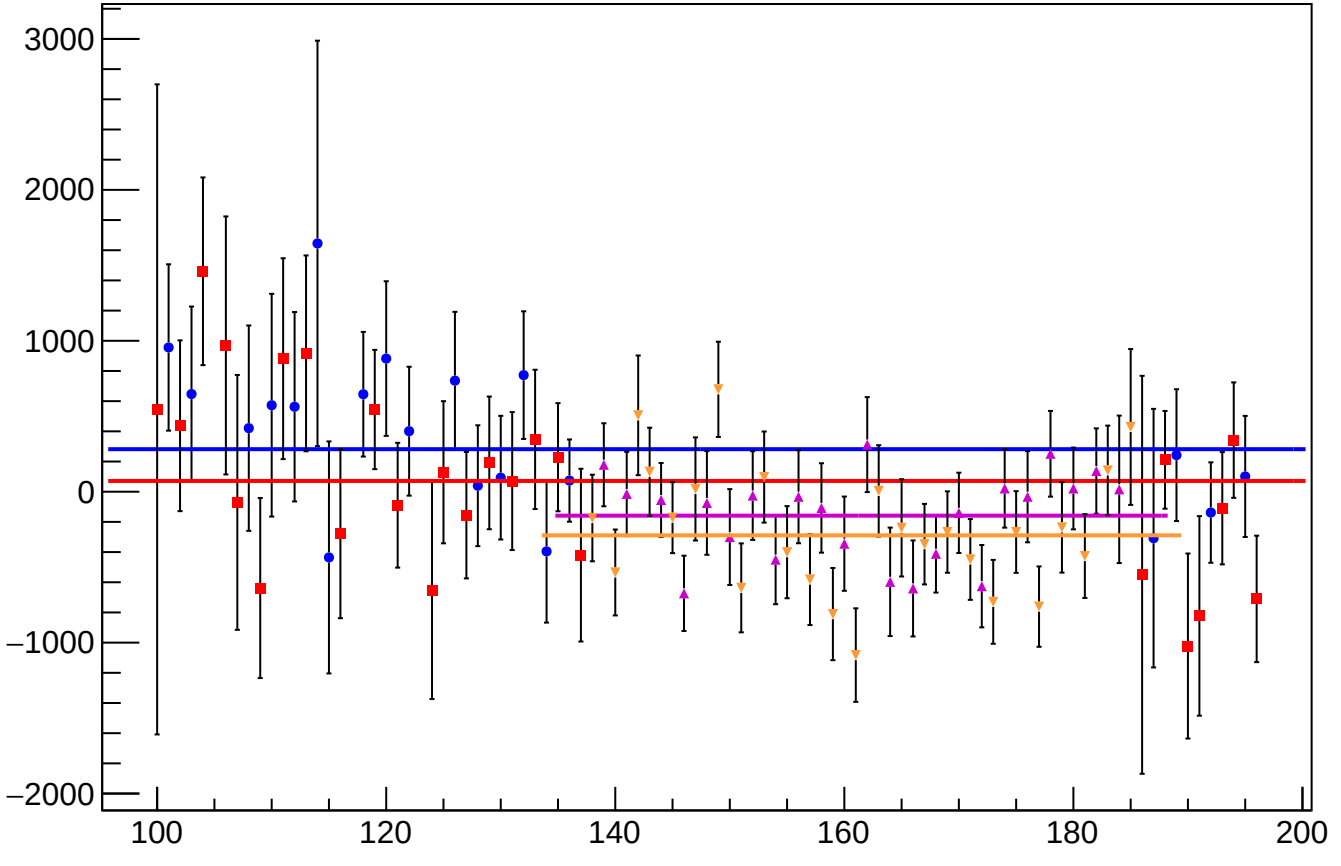
Right: 3975.543+/-0.639 $\chi^2$/NDF: 4494546.4/45

In: 2206.732+/-0.312 $\chi^2$/NDF:5969323.7/42

Out: 2223.719+/-0.303 $\chi^2$/NDF:8466950.8/50

All: 2215.468+/-0.217 $\chi^2$/NDF: 14437799.0/9

# eigen_cor_asym_sam2_mean vs Slug, Sign Corrected




Right In: 281.803+/-103.911 $\chi^2$/NDF: 14.3/19

Left Out: -288.928+/-59.035 $\chi^2$/NDF:42.4/24

Right Out: 71.304+/-98.041 $\chi^2$/NDF: 25.5/25

Left In: -158.612+/-60.708 $\chi^2$/NDF:22.5/22

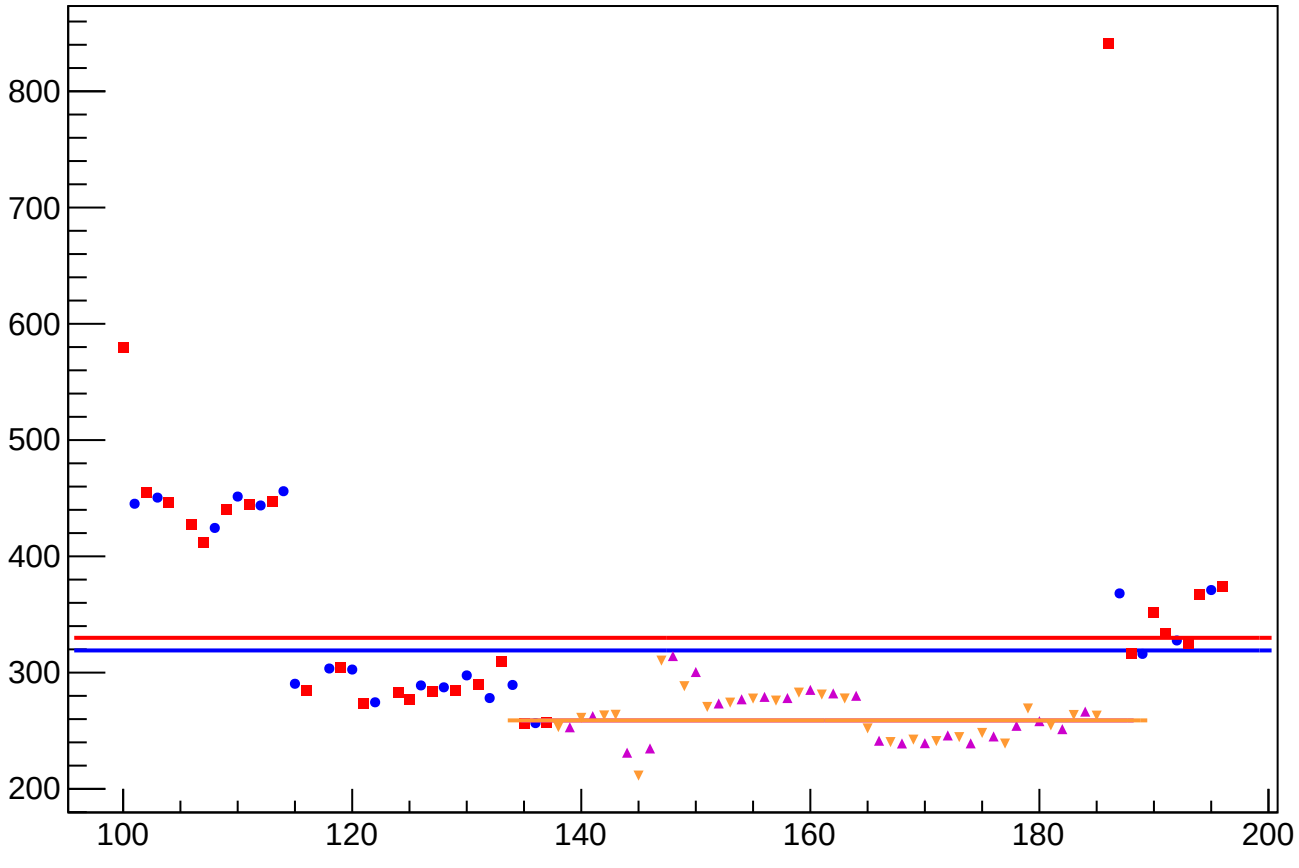
Left: -225.590+/-42.323 $\chi^2$/NDF: 67.3/47

Right: 170.441+/-71.310 $\chi^2$/NDF: 41.9/45

In: -46.541+/-52.417 $\chi^2$/NDF:50.2/42

Out: -193.071+/-50.574 $\chi^2$/NDF:77.8/50

All: -122.428+/-36.396 $\chi^2$/NDF: 132.0/93




Right In: 319.064+/-0.073 $\chi^2$/NDF: 649496.5/19

Left Out: 258.912+/-0.042 $\chi^2$/NDF:248740.9/24

Right Out: 329.922+/-0.069 $\chi^2$/NDF: 1056291.4/25

Left In: 258.843+/-0.043 $\chi^2$/NDF:244953.3/22

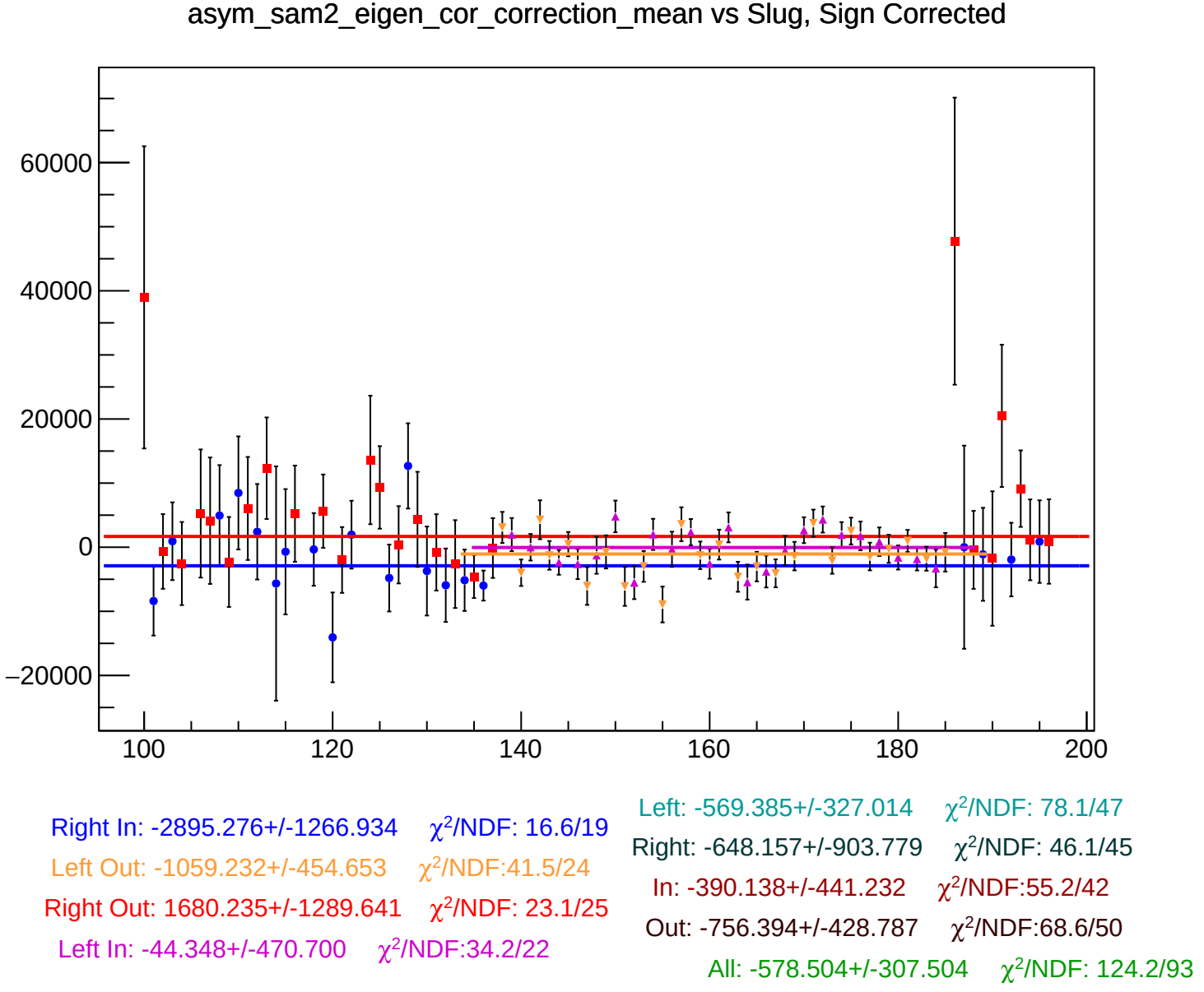
Left: 258.878+/-0.030 $\chi^2$/NDF: 493695.6/47

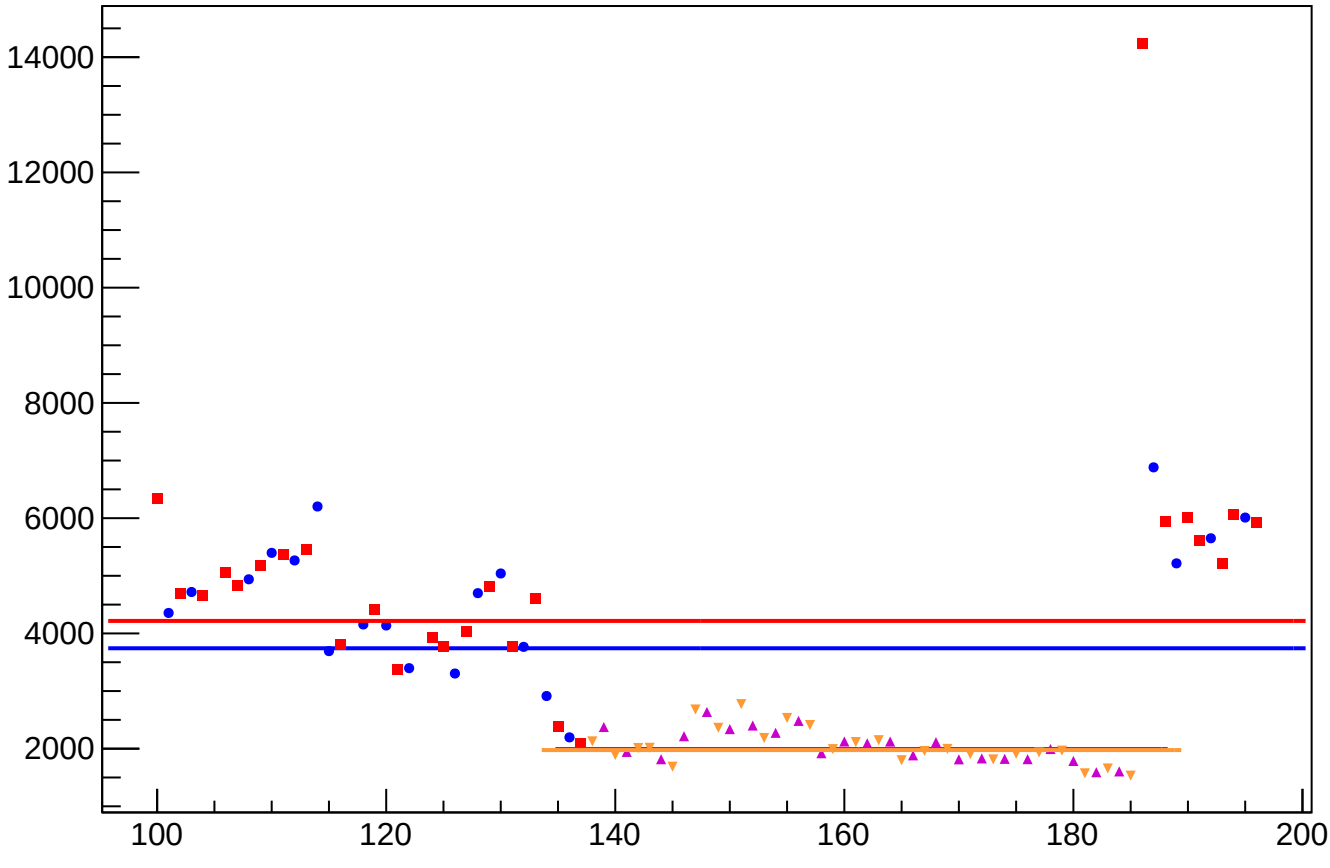
Right: 324.809+/-0.050 $\chi^2$/NDF: 1717340.5/45

In: 274.167+/-0.037 $\chi^2$/NDF:1395264.9/42

Out: 277.808+/-0.036 $\chi^2$/NDF:2075035.9/50

All: 276.053+/-0.026 $\chi^2$/NDF: 3475296.1/93


asym_sam2_eigen_cor_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
100
120
140
160
180
200
Right In: -2895.276+/-1266.934 χ²/NDF: 16.6/19
Left Out: -1059.232+/-454.653 χ²/NDF:41.5/24
Right Out: 1680.235+/-1289.641 χ²/NDF: 23.1/25
Left In: -44.348+/-470.700 χ²/NDF:34.2/22
Left: -569.385+/-327.014 χ²/NDF: 78.1/47
Right: -648.157+/-903.779 χ²/NDF: 46.1/45
In: -390.138+/-441.232 χ²/NDF:55.2/42
Out: -756.394+/-428.787 χ²/NDF:68.6/50
All: -578.504+/-307.504 χ²/NDF: 124.2/93




Right In: 3742.399+/-0.896 $\chi^2$/NDF: 2025292.9/19

Left Out: 1975.967+/-0.321 $\chi^2$/NDF:763328.1/24

Right Out: 4217.120+/-0.912 $\chi^2$/NDF: 2331346.7/25

Left In: 1994.760+/-0.333 $\chi^2$/NDF:599996.2/22

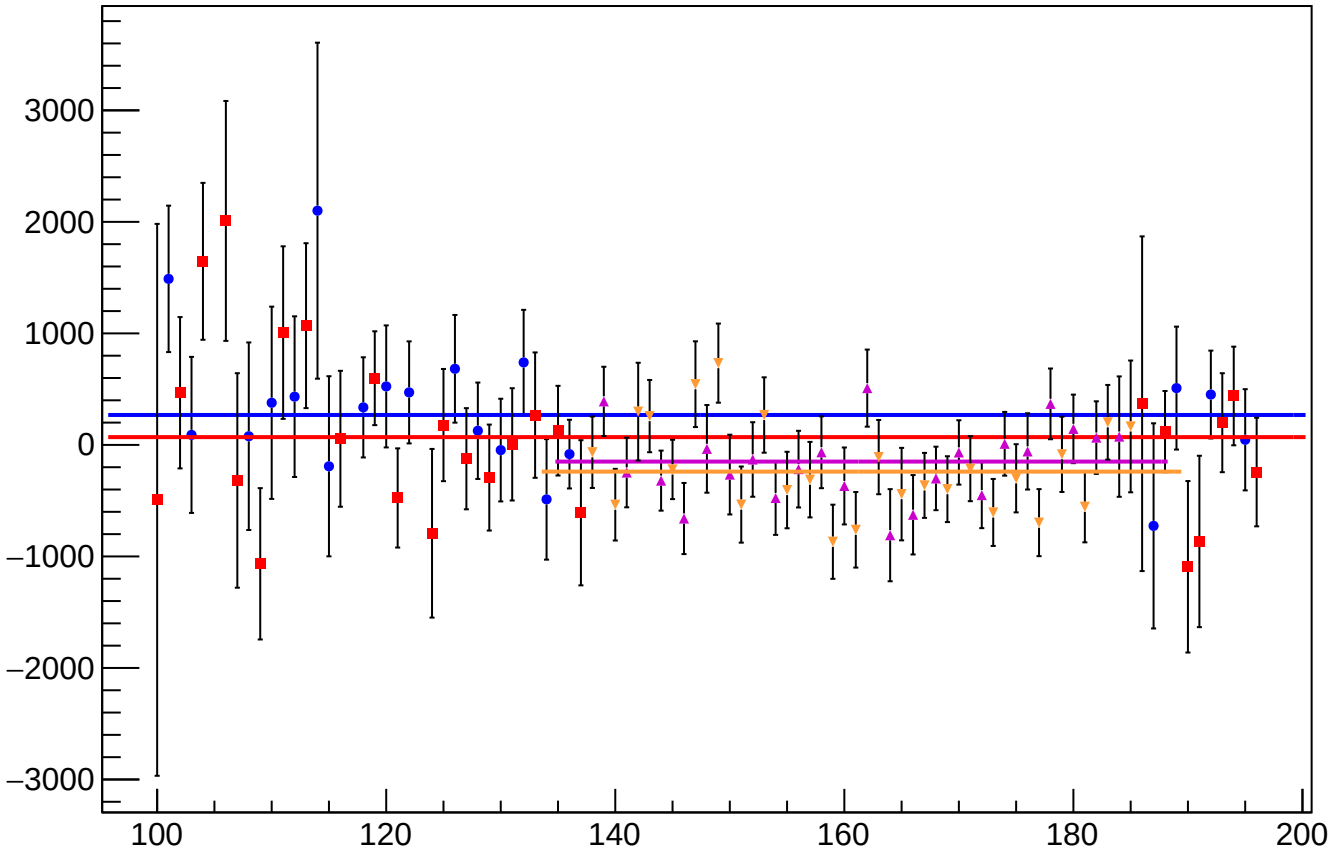
Left: 1985.038+/-0.231 $\chi^2$/NDF: 1364973.6/47

Right: 3975.543+/-0.639 $\chi^2$/NDF: 4494546.4/45

In: 2206.732+/-0.312 $\chi^2$/NDF:5969323.7/42

Out: 2223.719+/-0.303 $\chi^2$/NDF:8466950.8/50

All: 2215.468+/-0.217 $\chi^2$/NDF: 14437799.0/9




Right In: 268.581+/-117.278 $\chi^2$/NDF: 13.3/19

Left Out: -239.549+/-66.167 $\chi^2$/NDF:34.0/24

Right Out: 69.838+/-110.565 $\chi^2$/NDF: 26.4/25

Left In: -149.516+/-68.160 $\chi^2$/NDF:21.7/22

Left: -195.868+/-47.476 $\chi^2$/NDF: 56.6/47

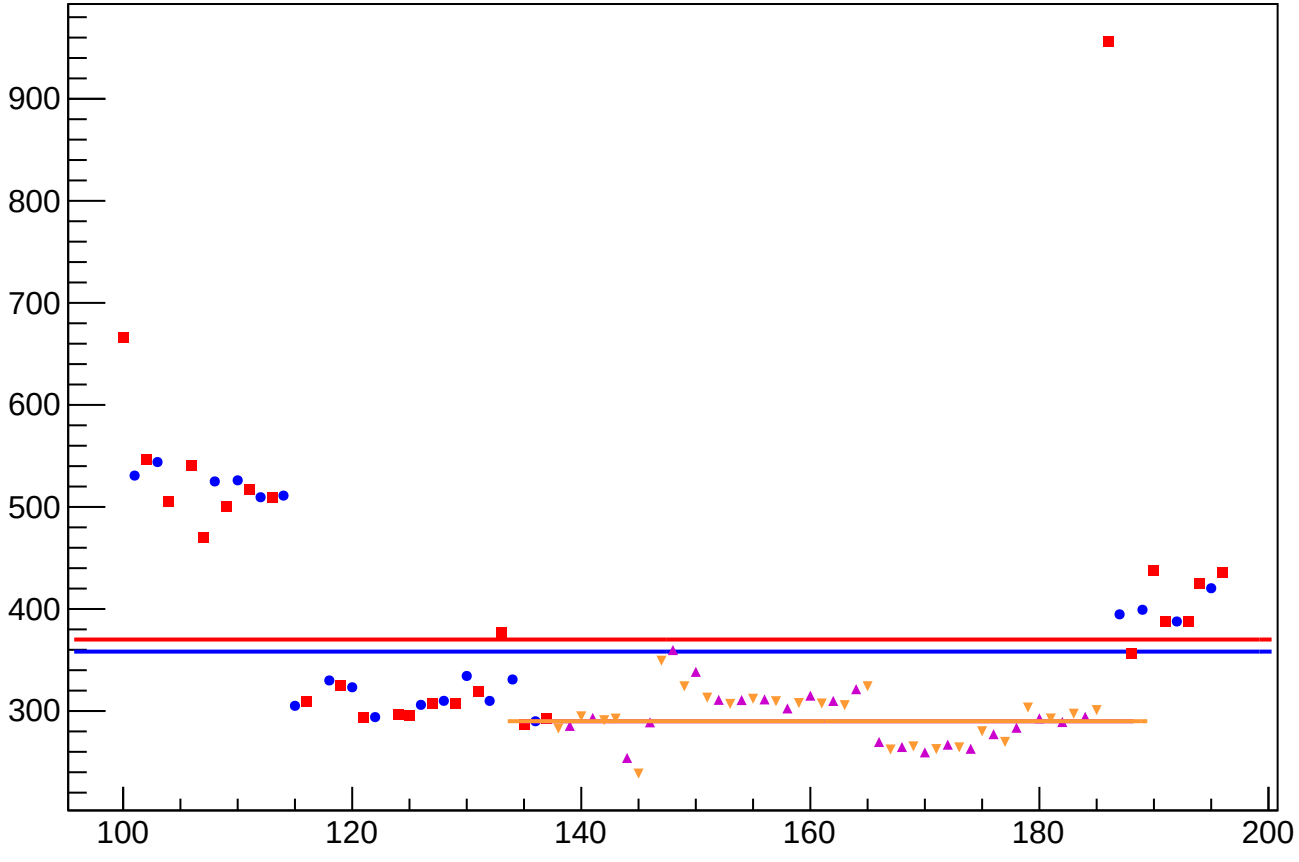
Right: 163.359+/-80.450 $\chi^2$/NDF: 41.2/45

In: -43.953+/-58.930 $\chi^2$/NDF:44.5/42

Out: -157.965+/-56.777 $\chi^2$/NDF:66.2/50

All: -103.080+/-40.887 $\chi^2$/NDF: 112.6/93

# dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 358.228+/-0.083 $\chi^2$/NDF: 847490.7/19

Left Out: 290.023+/-0.047 $\chi^2$/NDF:280647.1/24

Right Out: 370.065+/-0.078 $\chi^2$/NDF: 1292941.7/25

Left In: 289.941+/-0.048 $\chi^2$/NDF:269669.5/22

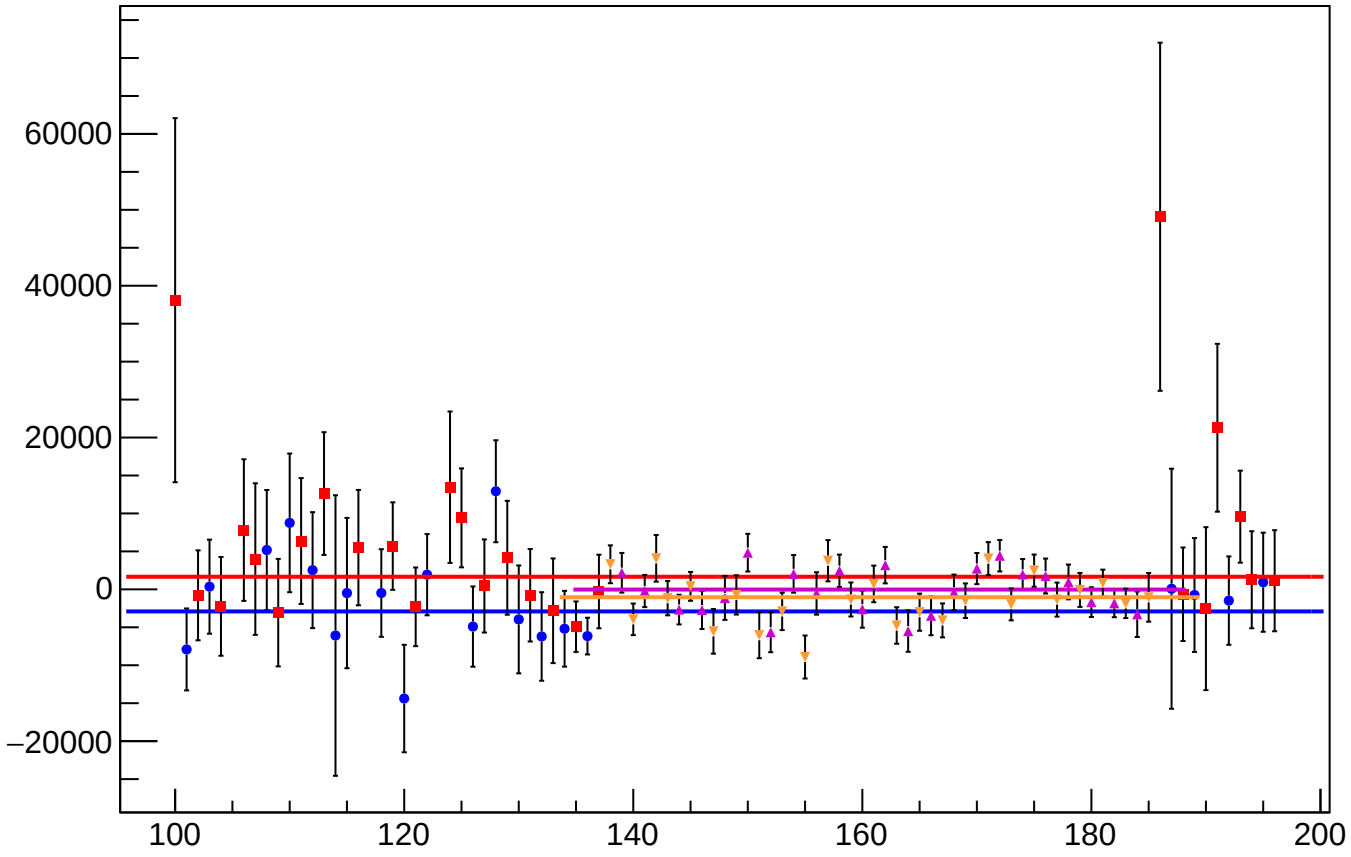
Left: 289.983+/-0.034 $\chi^2$/NDF: 550318.1/47

Right: 364.495+/-0.057 $\chi^2$/NDF: 2151218.7/45

In: 307.183+/-0.042 $\chi^2$/NDF:1624017.3/42

Out: 311.130+/-0.040 $\chi^2$/NDF:2345347.2/50

All: 309.229+/-0.029 $\chi^2$/NDF: 3974017.2/93




Right In: -2908.824+/-1294.542 $\chi^2$/NDF: 16.6/19

Left Out: -1036.592+/-465.324 $\chi^2$/NDF:40.3/24

Right Out: 1661.803+/-1304.055 $\chi^2$/NDF: 24.3/25

Left In: -30.393+/-482.280 $\chi^2$/NDF:34.1/22

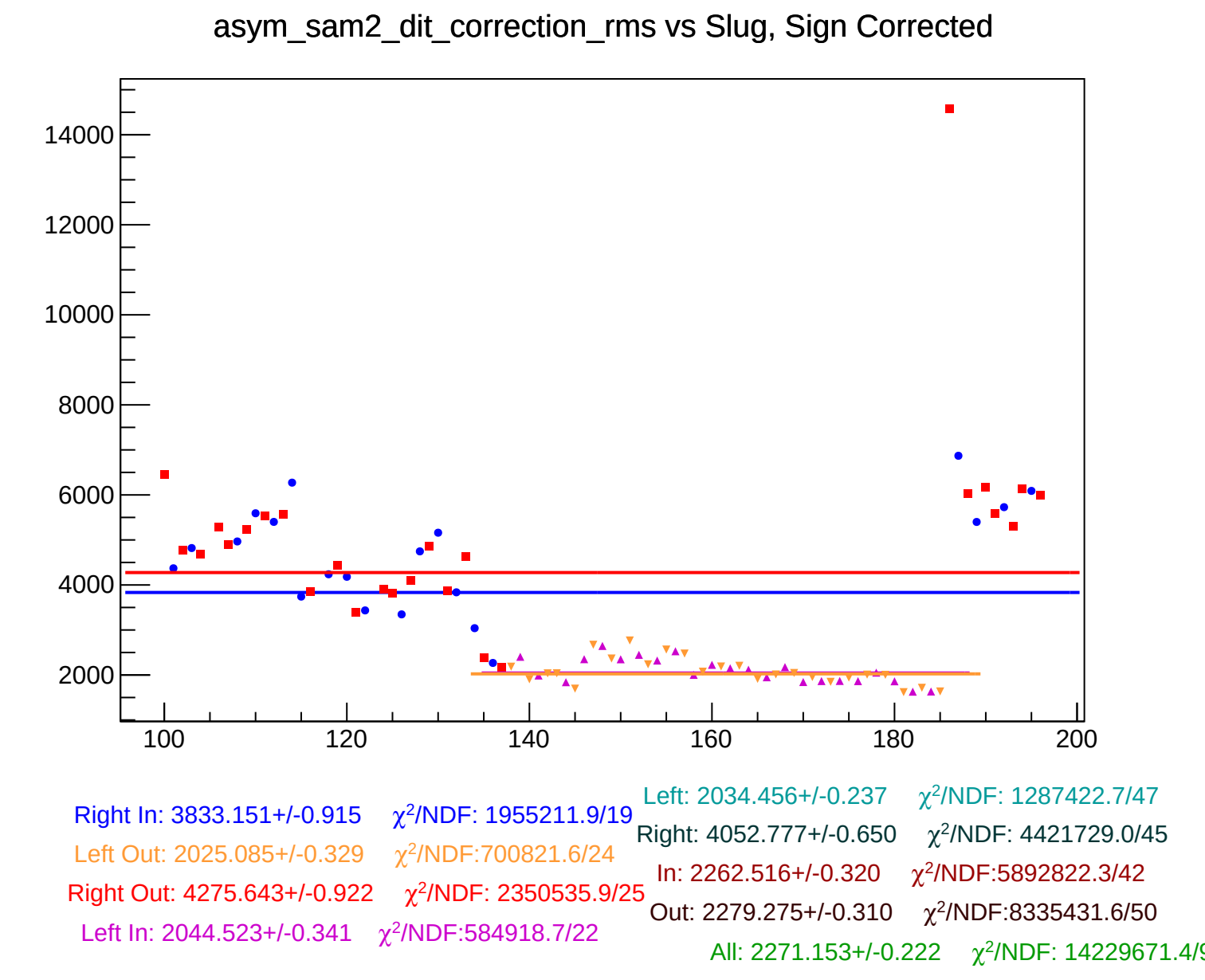
Left: -551.492+/-334.868 $\chi^2$/NDF: 76.7/47

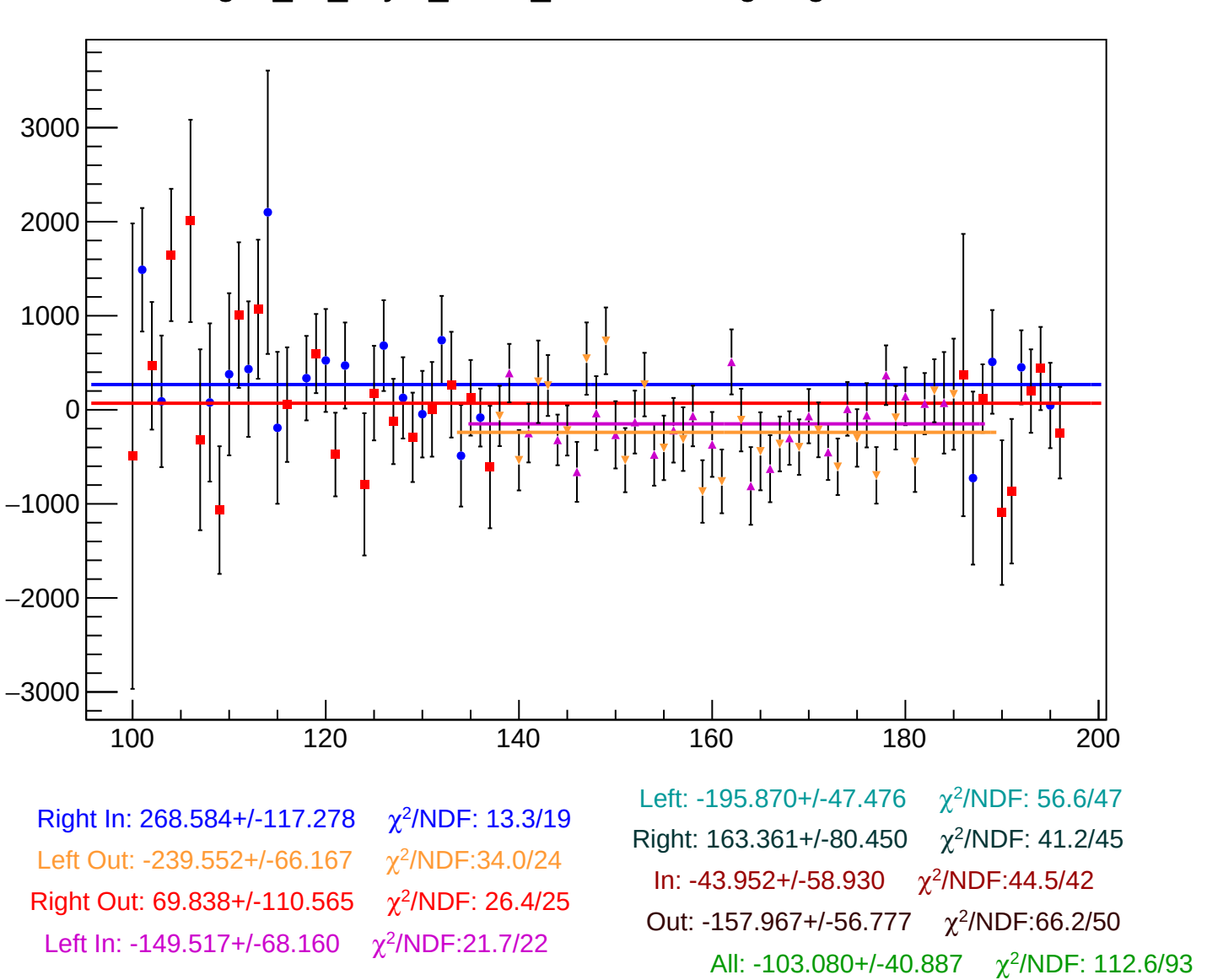
Right: -640.243+/-918.724 $\chi^2$/NDF: 47.1/45

In: -381.208+/-451.936 $\chi^2$/NDF:55.1/42

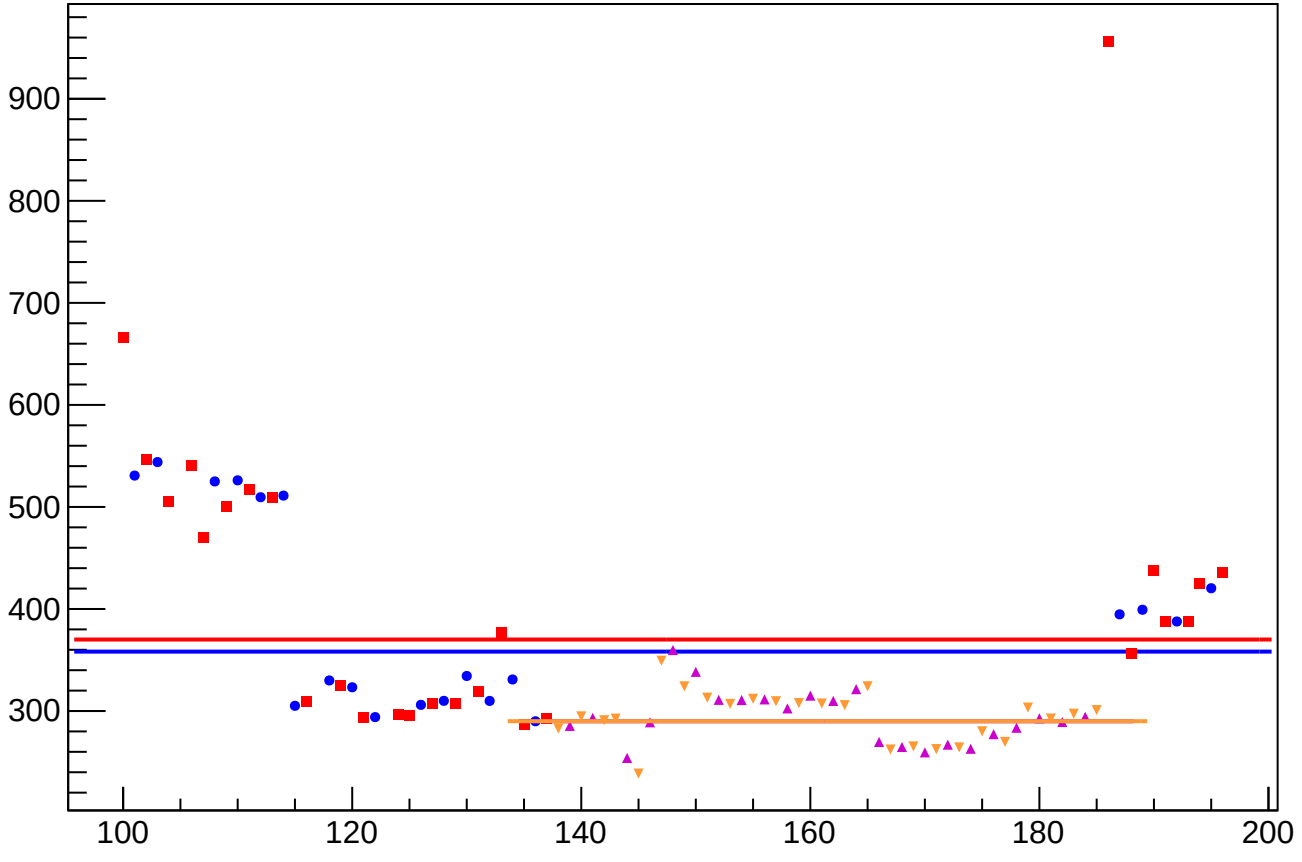
Out: -731.820+/-438.258 $\chi^2$/NDF:68.4/50

All: -561.900+/-314.620 $\chi^2$/NDF: 123.8/93


asym_sam2_dit_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 3833.151+/-0.915 χ²/NDF: 1955211.9/19
Left Out: 2025.085+/-0.329 χ²/NDF:700821.6/24
Right Out: 4275.643+/-0.922 χ²/NDF: 2350535.9/25
Left In: 2044.523+/-0.341 χ²/NDF:584918.7/22
Left: 2034.456+/-0.237 χ²/NDF: 1287422.7/47
Right: 4052.777+/-0.650 χ²/NDF: 4421729.0/45
In: 2262.516+/-0.320 χ²/NDF:5892822.3/42
Out: 2279.275+/-0.310 χ²/NDF:8335431.6/50
All: 2271.153+/-0.222 χ²/NDF: 14229671.4/9


eigen_dit_asym_sam2_mean vs Slug, Sign Corrected
3000
2000
1000
0
−1000
−2000
−3000
100
120
140
160
180
200
Right In: 268.584+/-117.278 χ²/NDF: 13.3/19
Left Out: -239.552+/-66.167 χ²/NDF:34.0/24
Right Out: 69.838+/-110.565 χ²/NDF: 26.4/25
Left In: -149.517+/-68.160 χ²/NDF:21.7/22
Left: -195.870+/-47.476 χ²/NDF: 56.6/47
Right: 163.361+/-80.450 χ²/NDF: 41.2/45
In: -43.952+/-58.930 χ²/NDF:44.5/42
Out: -157.967+/-56.777 χ²/NDF:66.2/50
All: -103.080+/-40.887 χ²/NDF: 112.6/93

# eigen_dit_asym_sam2_rms vs Slug, Sign Corrected




Right In: 358.226+/-0.083 $\chi^2$/NDF: 847489.2/19

Left Out: 290.023+/-0.047 $\chi^2$/NDF:280652.8/24

Right Out: 370.064+/-0.078 $\chi^2$/NDF: 1292932.4/25

Left In: 289.941+/-0.048 $\chi^2$/NDF:269671.9/22

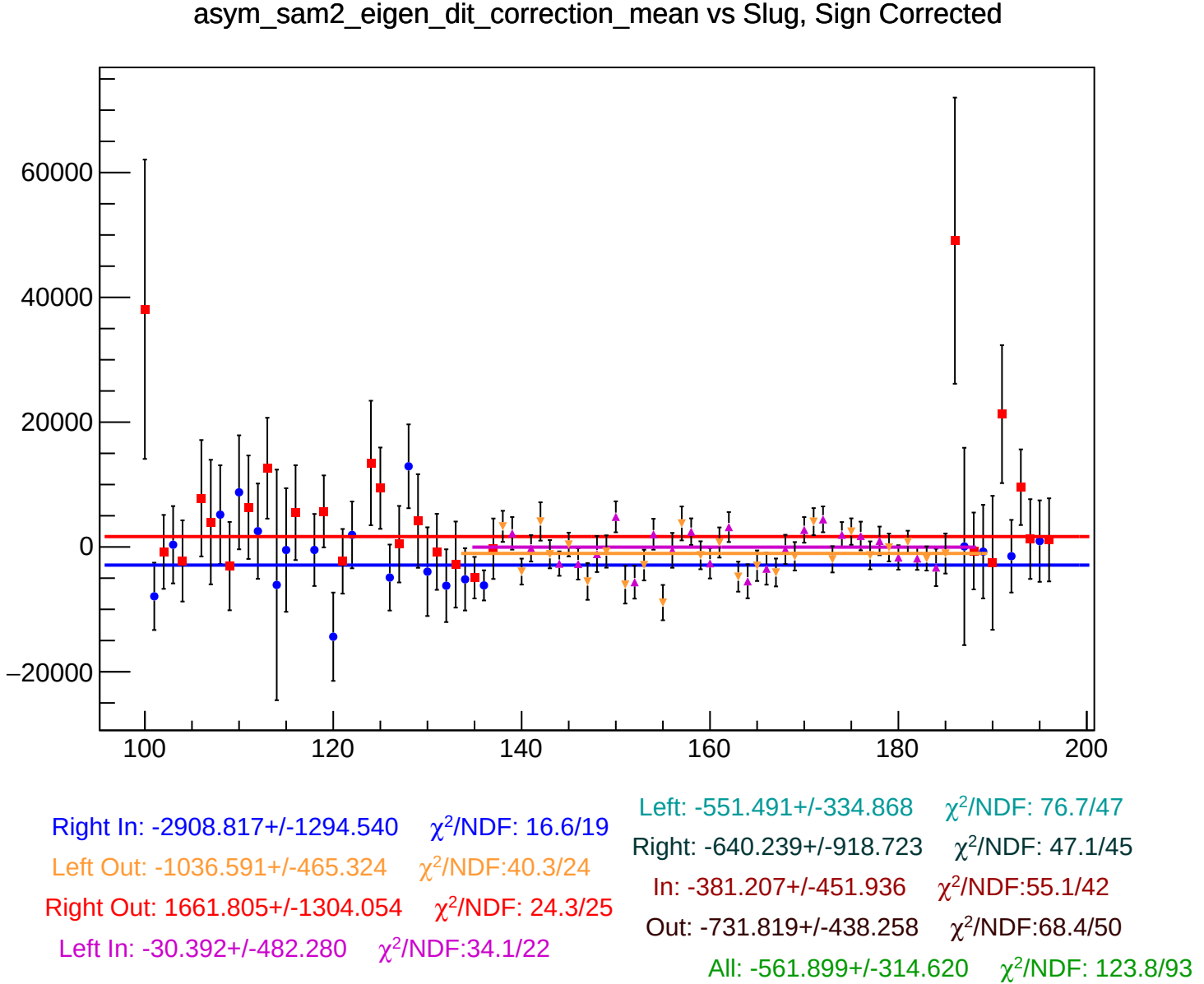
Left: 289.983+/-0.034 $\chi^2$/NDF: 550326.2/47

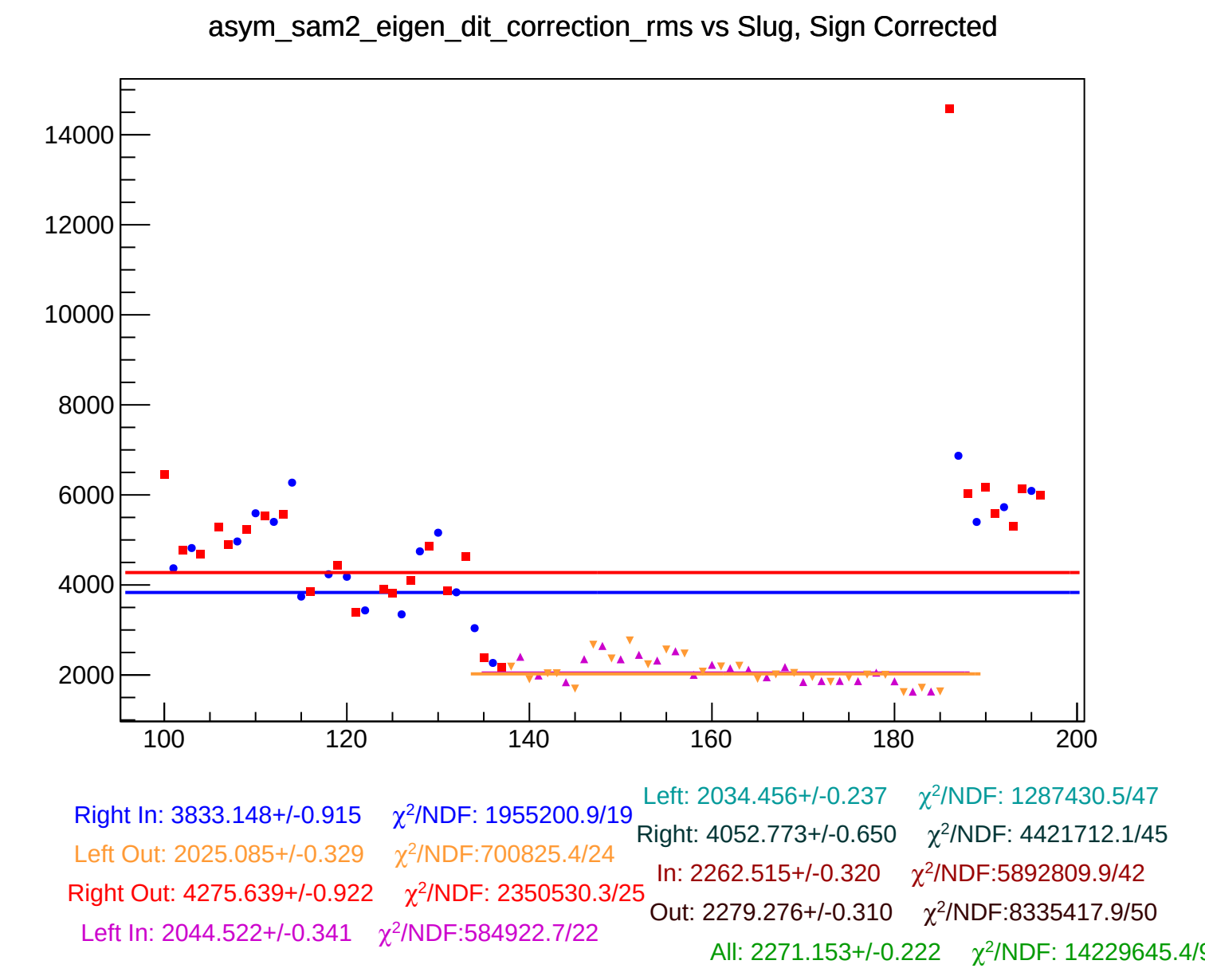
Right: 364.493+/-0.057 $\chi^2$/NDF: 2151209.5/45

In: 307.182+/-0.042 $\chi^2$/NDF:1623997.8/42

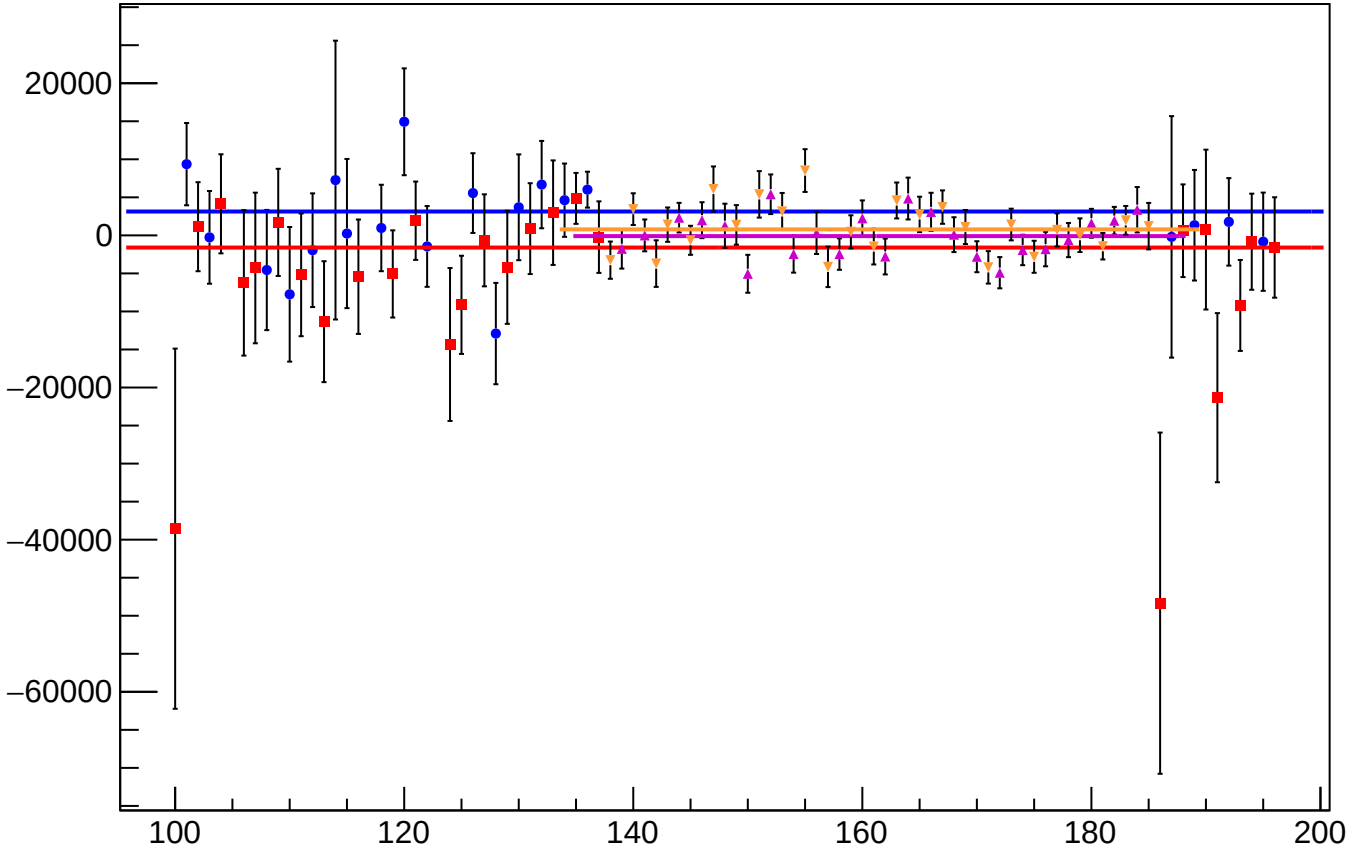
Out: 311.129+/-0.040 $\chi^2$/NDF:2345327.7/50

All: 309.229+/-0.029 $\chi^2$/NDF: 3973978.8/93


asym_sam2_eigen_dit_correction_mean vs Slug, Sign Corrected
60000
40000
20000
0
−20000
100
120
140
160
180
200
Right In: -2908.817+/-1294.540 χ²/NDF: 16.6/19
Left Out: -1036.591+/-465.324 χ²/NDF:40.3/24
Right Out: 1661.805+/-1304.054 χ²/NDF: 24.3/25
Left In: -30.392+/-482.280 χ²/NDF:34.1/22
Left: -551.491+/-334.868 χ²/NDF: 76.7/47
Right: -640.239+/-918.723 χ²/NDF: 47.1/45
In: -381.207+/-451.936 χ²/NDF:55.1/42
Out: -731.819+/-438.258 χ²/NDF:68.4/50
All: -561.899+/-314.620 χ²/NDF: 123.8/93


asym_sam2_eigen_dit_correction_rms vs Slug, Sign Corrected
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 3833.148+/-0.915 χ²/NDF: 1955200.9/19
Left Out: 2025.085+/-0.329 χ²/NDF:700825.4/24
Right Out: 4275.639+/-0.922 χ²/NDF: 2350530.3/25
Left In: 2044.522+/-0.341 χ²/NDF:584922.7/22
Left: 2034.456+/-0.237 χ²/NDF: 1287430.5/47
Right: 4052.773+/-0.650 χ²/NDF: 4421712.1/45
In: 2262.515+/-0.320 χ²/NDF:5892809.9/42
Out: 2279.276+/-0.310 χ²/NDF:8335417.9/50
All: 2271.153+/-0.222 χ²/NDF: 14229645.4/9

# asym_sam2_mean vs Slug, Sign Corrected




Right In: 3138.183+/-1272.583 $\chi^2$/NDF: 16.9/19

Left Out: 788.321+/-458.726 $\chi^2$/NDF:41.3/24

Right Out: -1599.860+/-1293.241 $\chi^2$/NDF: 23.6/25

Left In: -96.730+/-474.825 $\chi^2$/NDF:32.8/22

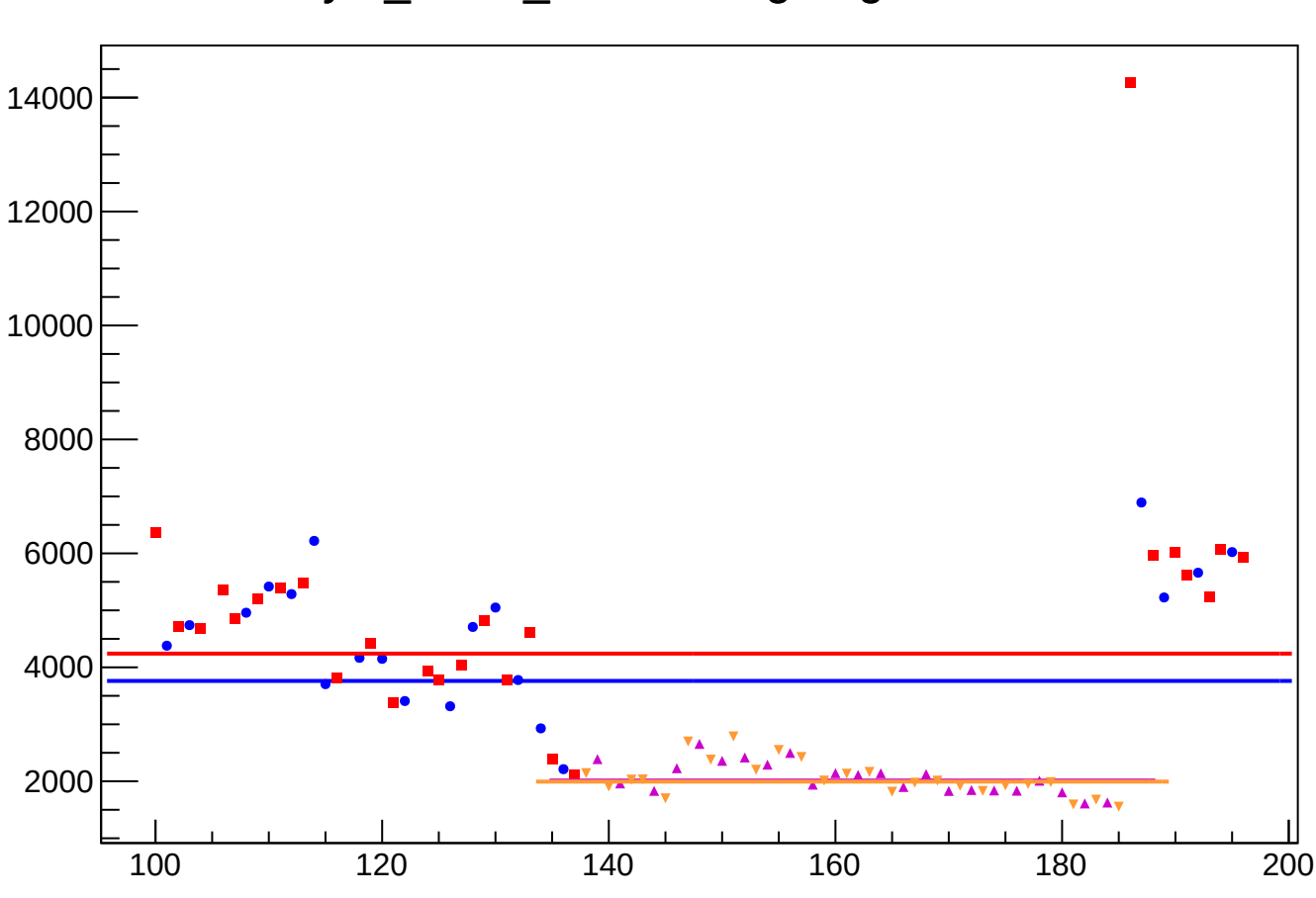
Left: 361.054+/-329.913 $\chi^2$/NDF: 76.0/47

Right: 807.305+/-907.068 $\chi^2$/NDF: 47.4/45

In: 298.592+/-444.867 $\chi^2$/NDF:55.4/42

Out: 521.422+/-432.333 $\chi^2$/NDF:68.0/50

All: 413.190+/-310.042 $\chi^2$/NDF: 123.5/93




Right In: 3761.488+/-0.900 $\chi^2$/NDF: 2004394.1/19

Left Out: 1994.246+/-0.324 $\chi^2$/NDF:746498.4/24

Right Out: 4240.856+/-0.914 $\chi^2$/NDF: 2326404.1/25

Left In: 2012.692+/-0.336 $\chi^2$/NDF:587260.9/22

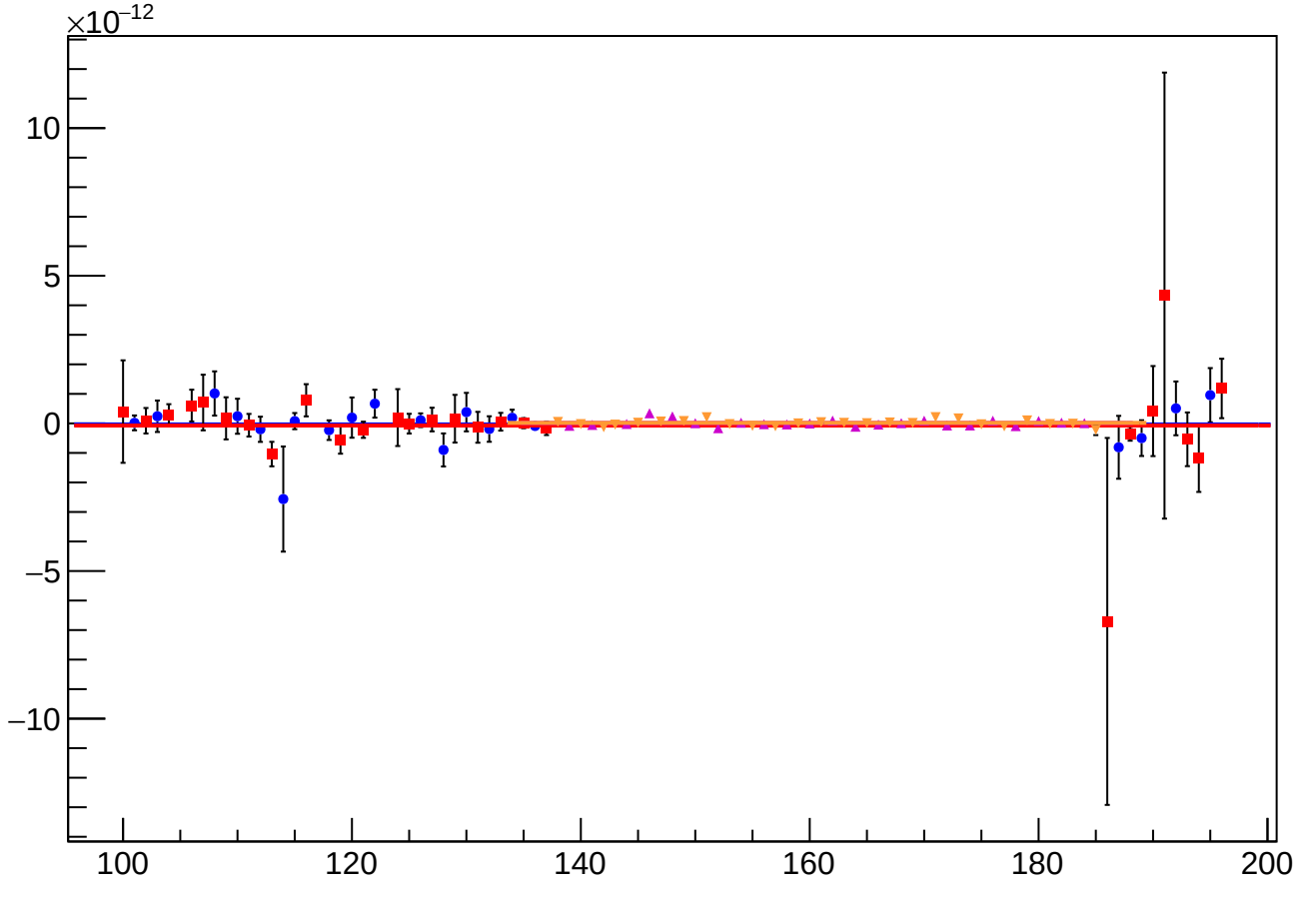
Left: 2003.151+/-0.233 $\chi^2$/NDF: 1335320.5/47

Right: 3997.313+/-0.641 $\chi^2$/NDF: 4470408.6/45

In: 2226.403+/-0.315 $\chi^2$/NDF:5907001.9/42

Out: 2245.322+/-0.306 $\chi^2$/NDF:8434054.6/50

All: 2236.133+/-0.219 $\chi^2$/NDF: 14342916.9/9




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.6/22

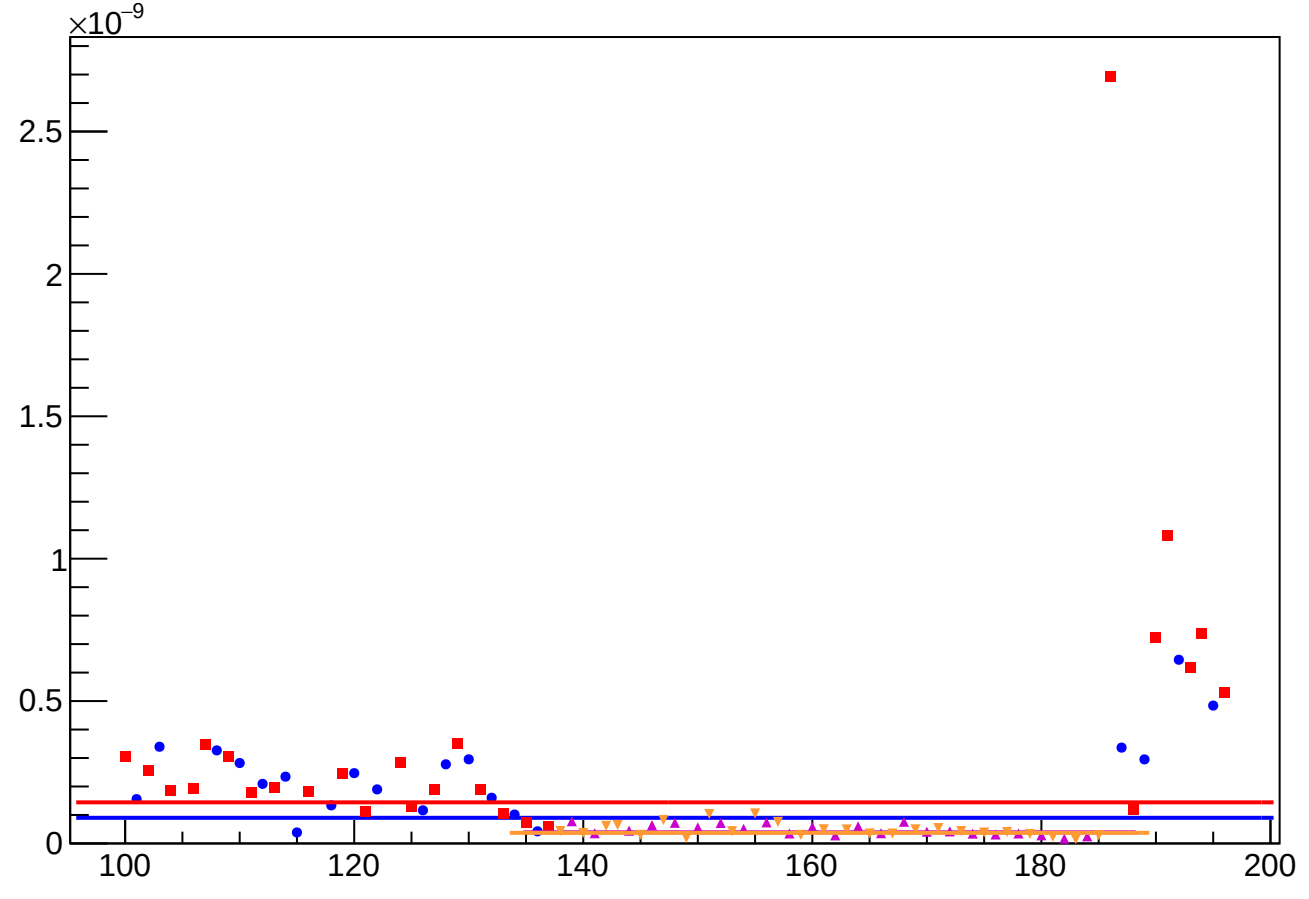
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 34.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:45.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:42.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 87.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4177323.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2323330.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3481712.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1921481.4/22

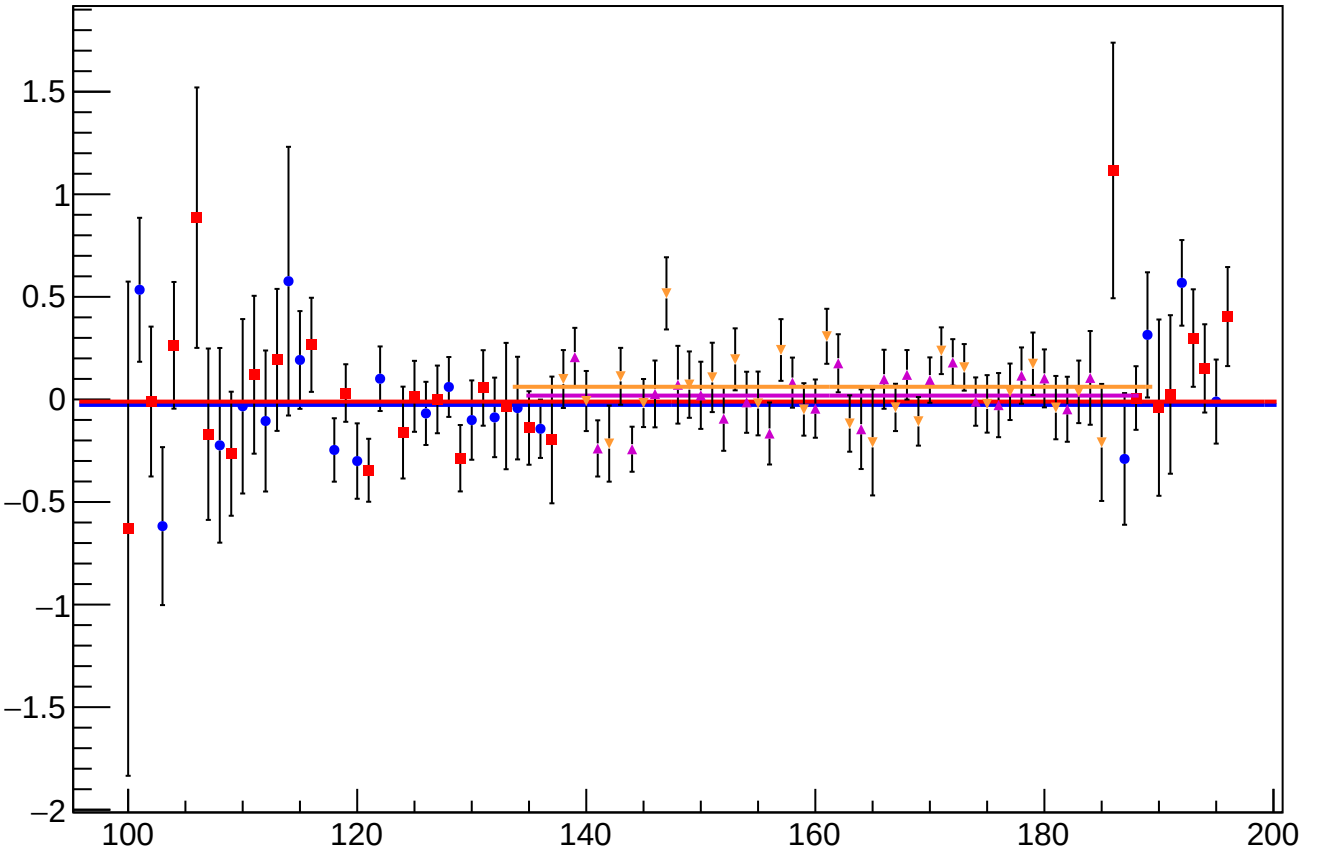
Left: 0.000+/-0.000 $\chi^2$/NDF: 4258987.4/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8259626.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:7440738.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9356994.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16807167.7/93




Right In: -0.027+/-0.048 $\chi^2$/NDF: 23.1/19

Left Out: 0.062+/-0.029 $\chi^2$/NDF:27.4/24

Right Out: -0.011+/-0.045 $\chi^2$/NDF: 23.6/25

Left In: 0.019+/-0.029 $\chi^2$/NDF:20.3/22

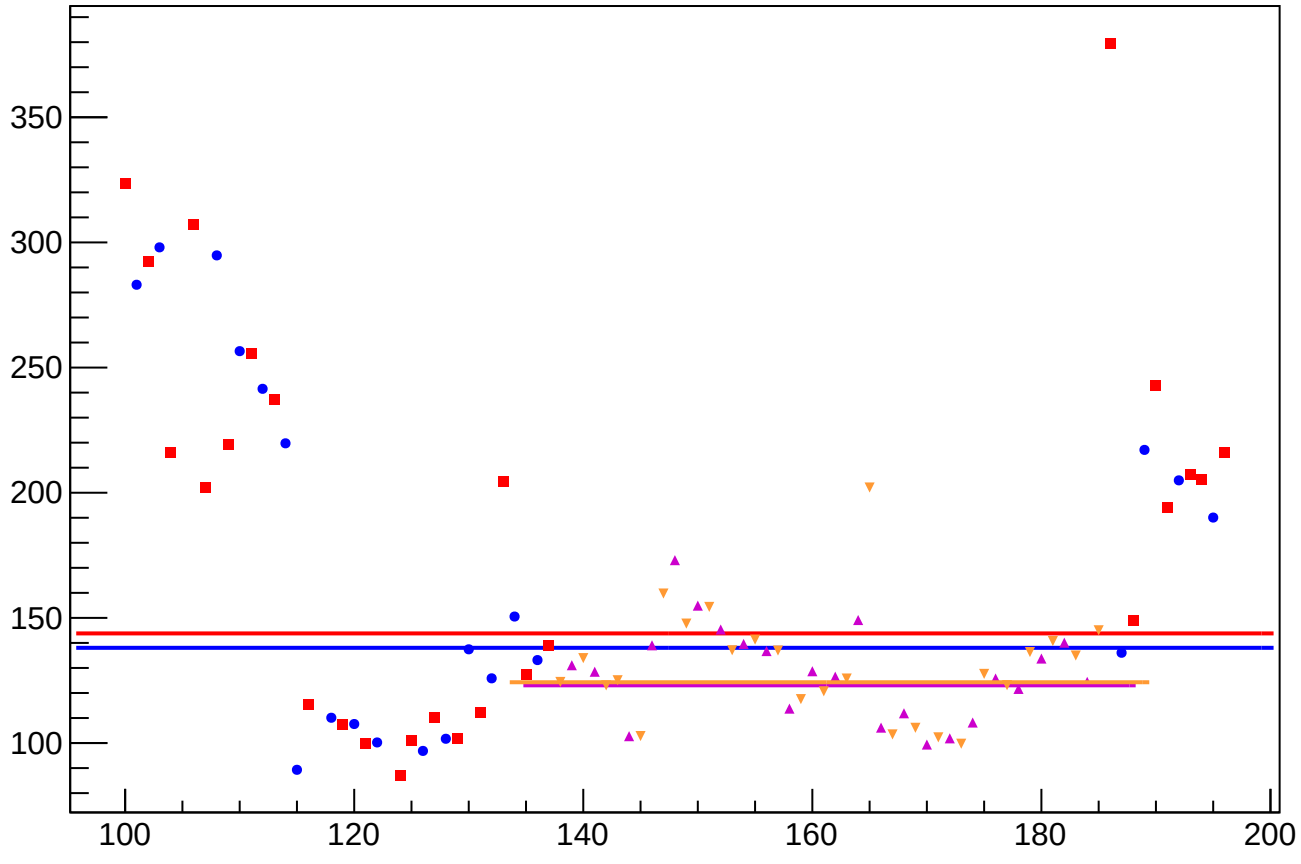
Left: 0.041+/-0.021 $\chi^2$/NDF: 48.8/47

Right: -0.018+/-0.033 $\chi^2$/NDF: 46.8/45

In: 0.006+/-0.025 $\chi^2$/NDF:44.1/42

Out: 0.041+/-0.024 $\chi^2$/NDF:52.8/50

All: 0.024+/-0.017 $\chi^2$/NDF: 97.9/93




Right In: 138.046+/-0.034 $\chi^2$/NDF: 2343797.1/19

Left Out: 124.292+/-0.020 $\chi^2$/NDF:840983.3/24

Right Out: 143.801+/-0.032 $\chi^2$/NDF: 2960147.7/25

Left In: 123.062+/-0.021 $\chi^2$/NDF:718821.1/22

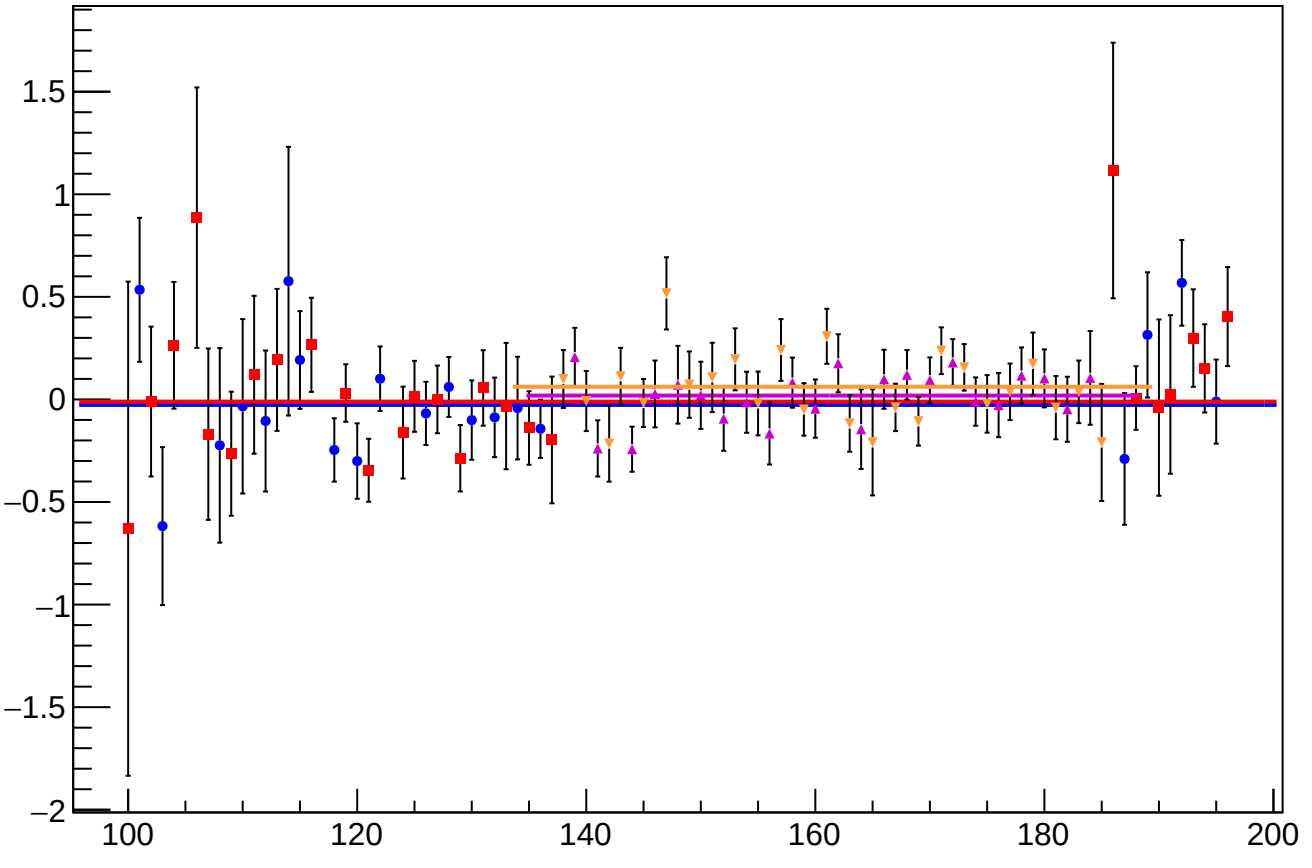
Left: 123.690+/-0.015 $\chi^2$/NDF: 1561601.6/47

Right: 141.071+/-0.023 $\chi^2$/NDF: 5319279.6/45

In: 127.179+/-0.018 $\chi^2$/NDF:3206027.9/42

Out: 129.881+/-0.017 $\chi^2$/NDF:4066224.2/50

All: 128.571+/-0.012 $\chi^2$/NDF: 7284311.8/93




Right In: -0.027+/-0.048 $\chi^2$/NDF: 23.1/19

Left Out: 0.062+/-0.029 $\chi^2$/NDF:27.4/24

Right Out: -0.011+/-0.045 $\chi^2$/NDF: 23.6/25

Left In: 0.019+/-0.029 $\chi^2$/NDF:20.3/22

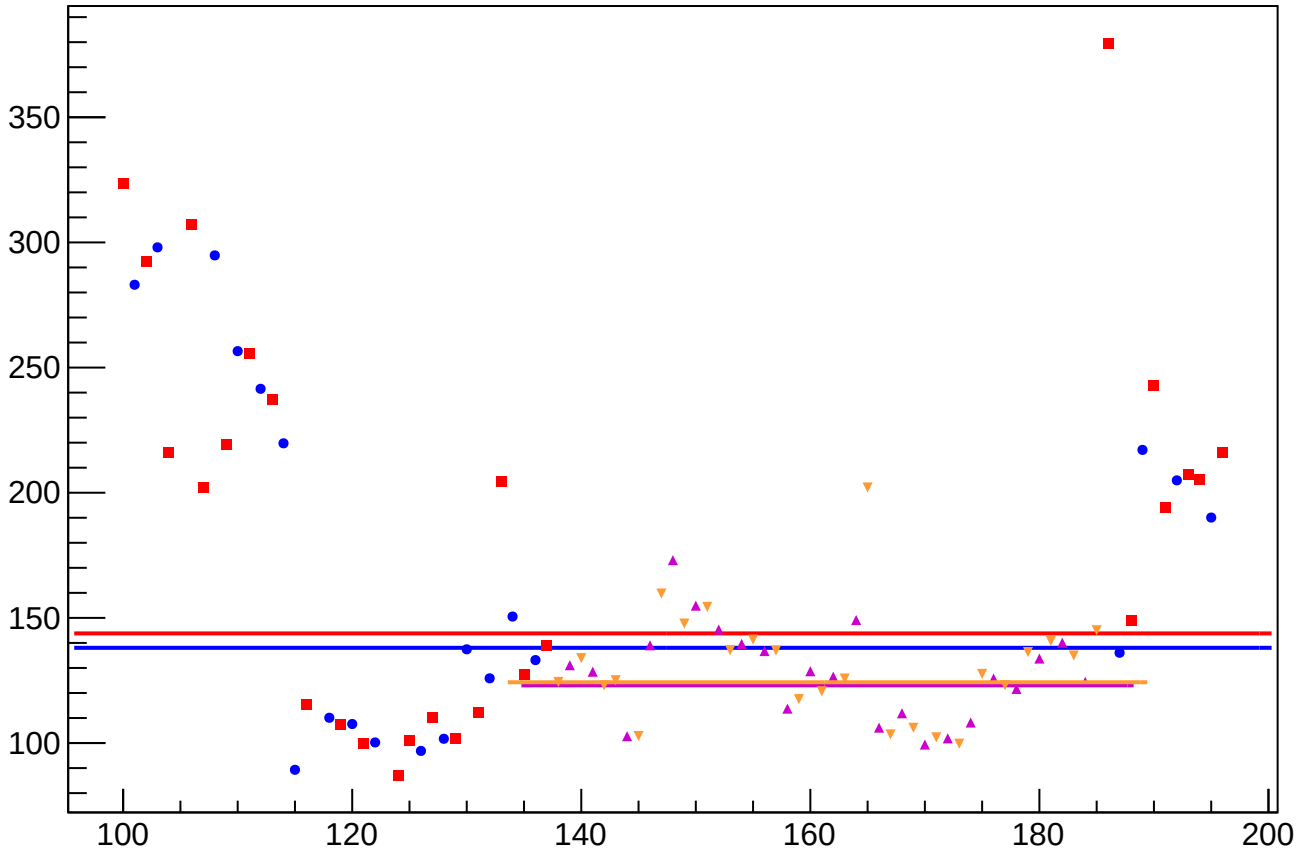
Left: 0.041+/-0.021 $\chi^2$/NDF: 48.8/47

Right: -0.018+/-0.033 $\chi^2$/NDF: 46.8/45

In: 0.006+/-0.025 $\chi^2$/NDF:44.1/42

Out: 0.041+/-0.024 $\chi^2$/NDF:52.8/50

All: 0.024+/-0.017 $\chi^2$/NDF: 97.9/93




Right In: 138.046+/-0.034 $\chi^2$/NDF: 2343797.1/19

Left Out: 124.292+/-0.020 $\chi^2$/NDF:840983.3/24

Right Out: 143.801+/-0.032 $\chi^2$/NDF: 2960147.7/25

Left In: 123.062+/-0.021 $\chi^2$/NDF:718821.1/22

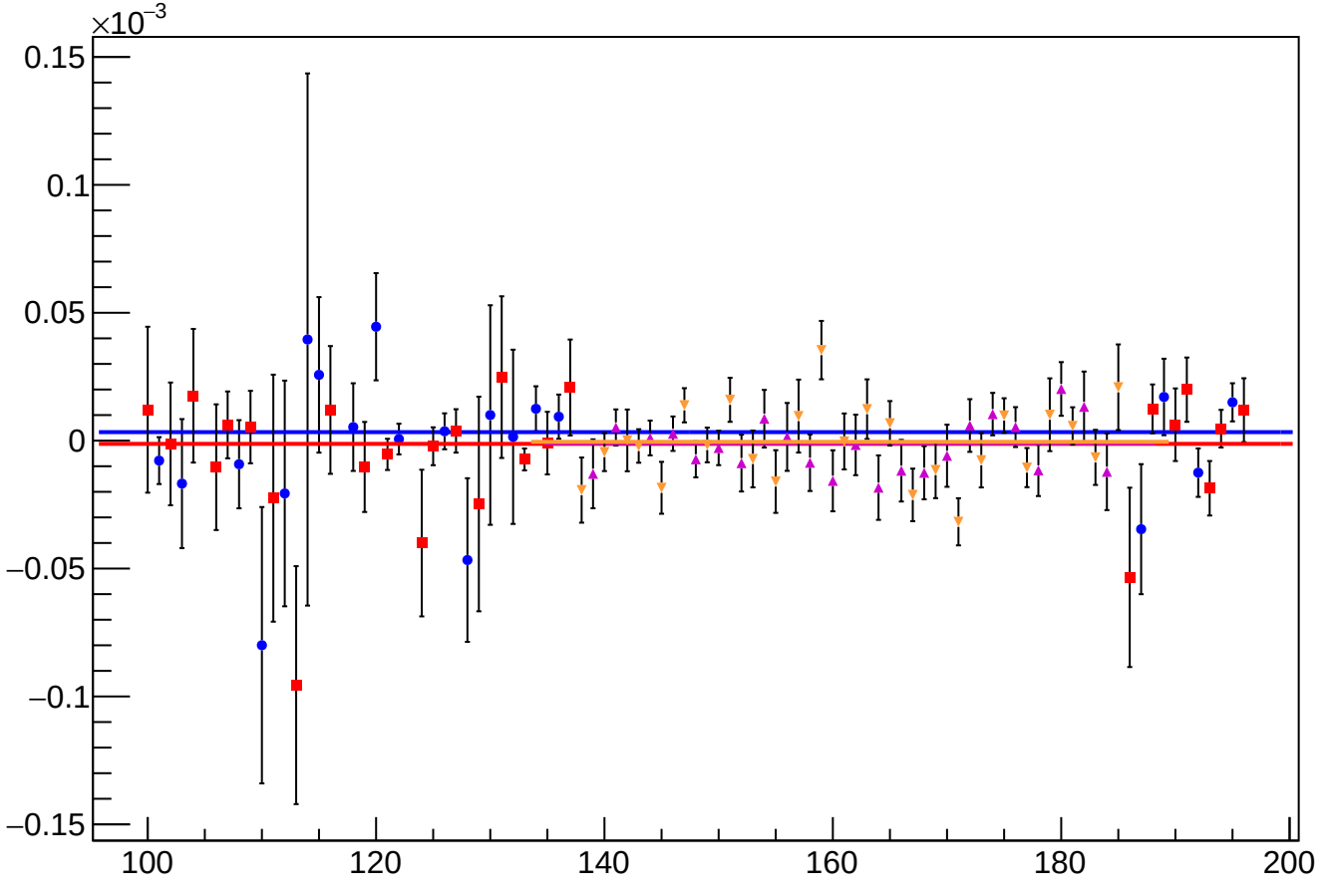
Left: 123.690+/-0.015 $\chi^2$/NDF: 1561601.6/47

Right: 141.071+/-0.023 $\chi^2$/NDF: 5319279.6/45

In: 127.179+/-0.018 $\chi^2$/NDF:3206027.9/42

Out: 129.881+/-0.017 $\chi^2$/NDF:4066224.2/50

All: 128.571+/-0.012 $\chi^2$/NDF: 7284311.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:52.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.0/22

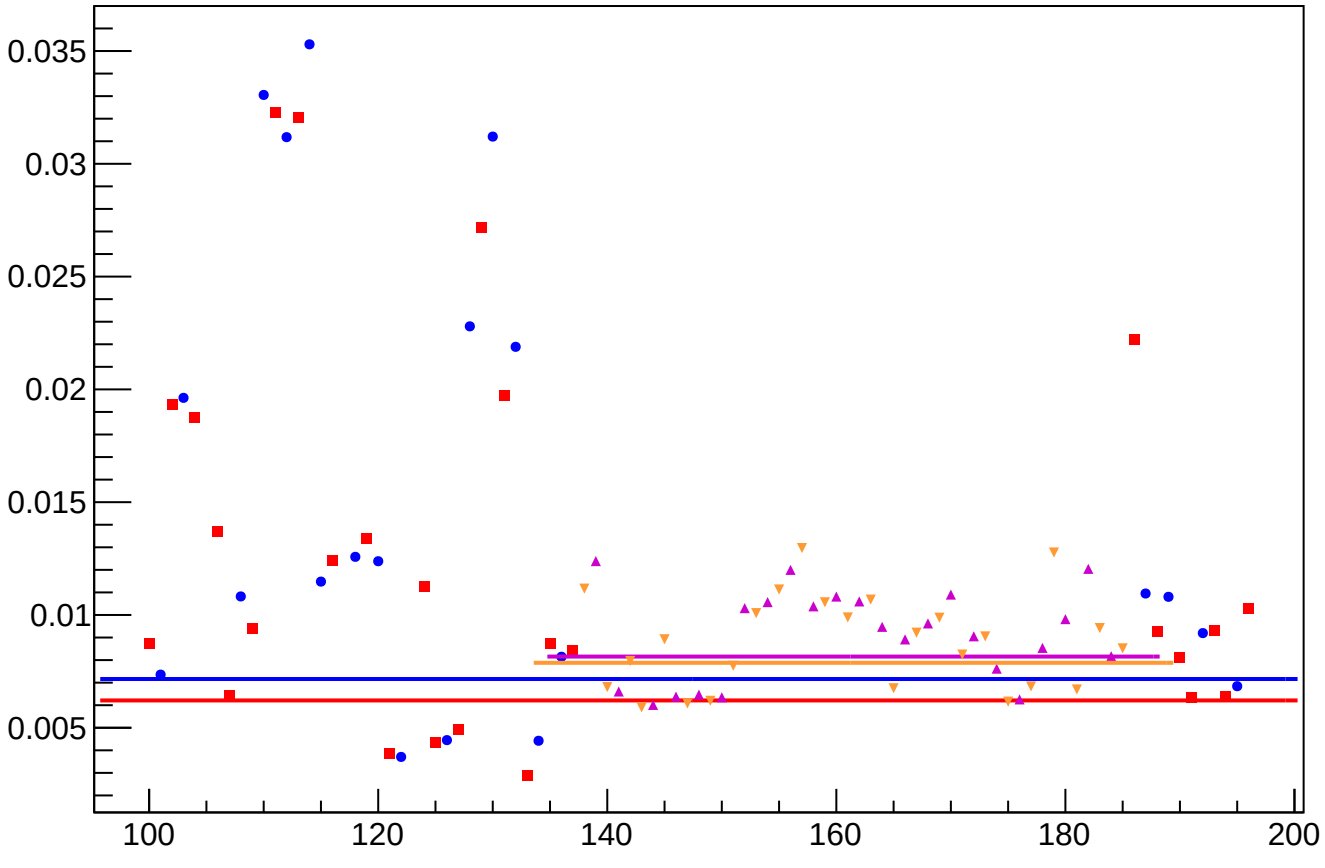
Left: -0.000+/-0.000 $\chi^2$/NDF: 72.5/47

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

In: 0.000+/-0.000 $\chi^2$/NDF:44.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:77.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 122.0/93




Right In: 0.007+/-0.000 $\chi^2$/NDF: 5061672.5/19

Left Out: 0.008+/-0.000 $\chi^2$/NDF:2076596.0/24

Right Out: 0.006+/-0.000 $\chi^2$/NDF: 6791900.6/25

Left In: 0.008+/-0.000 $\chi^2$/NDF:2017677.5/22

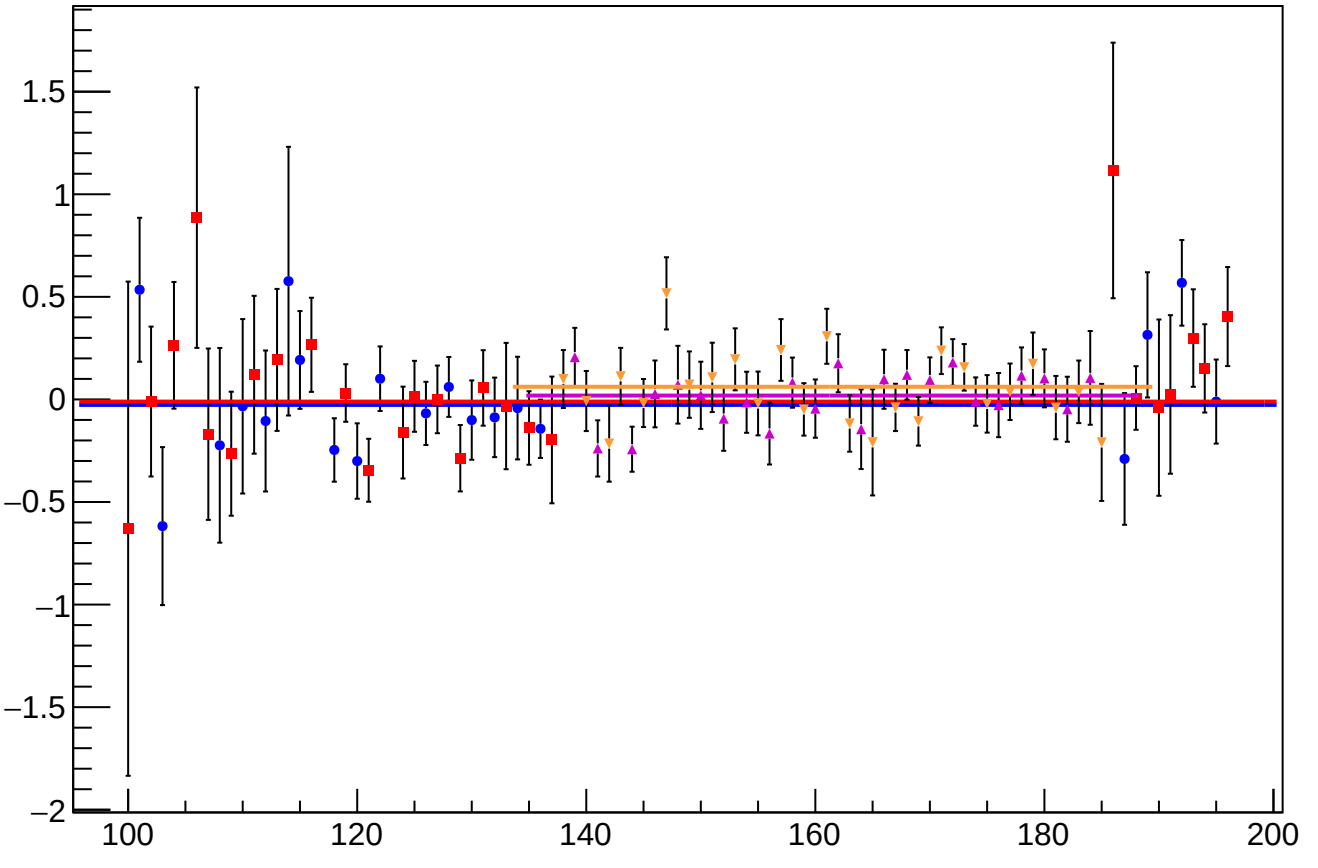
Left: 0.008+/-0.000 $\chi^2$/NDF: 4114921.6/47

Right: 0.007+/-0.000 $\chi^2$/NDF: 12001613.3/45

In: 0.008+/-0.000 $\chi^2$/NDF:7254966.7/42

Out: 0.007+/-0.000 $\chi^2$/NDF:9539355.5/50

All: 0.007+/-0.000 $\chi^2$/NDF: 16961394.8/93




Right In: -0.027+/-0.048 $\chi^2$/NDF: 23.1/19

Left Out: 0.062+/-0.029 $\chi^2$/NDF:27.4/24

Right Out: -0.011+/-0.045 $\chi^2$/NDF: 23.6/25

Left In: 0.019+/-0.029 $\chi^2$/NDF:20.3/22

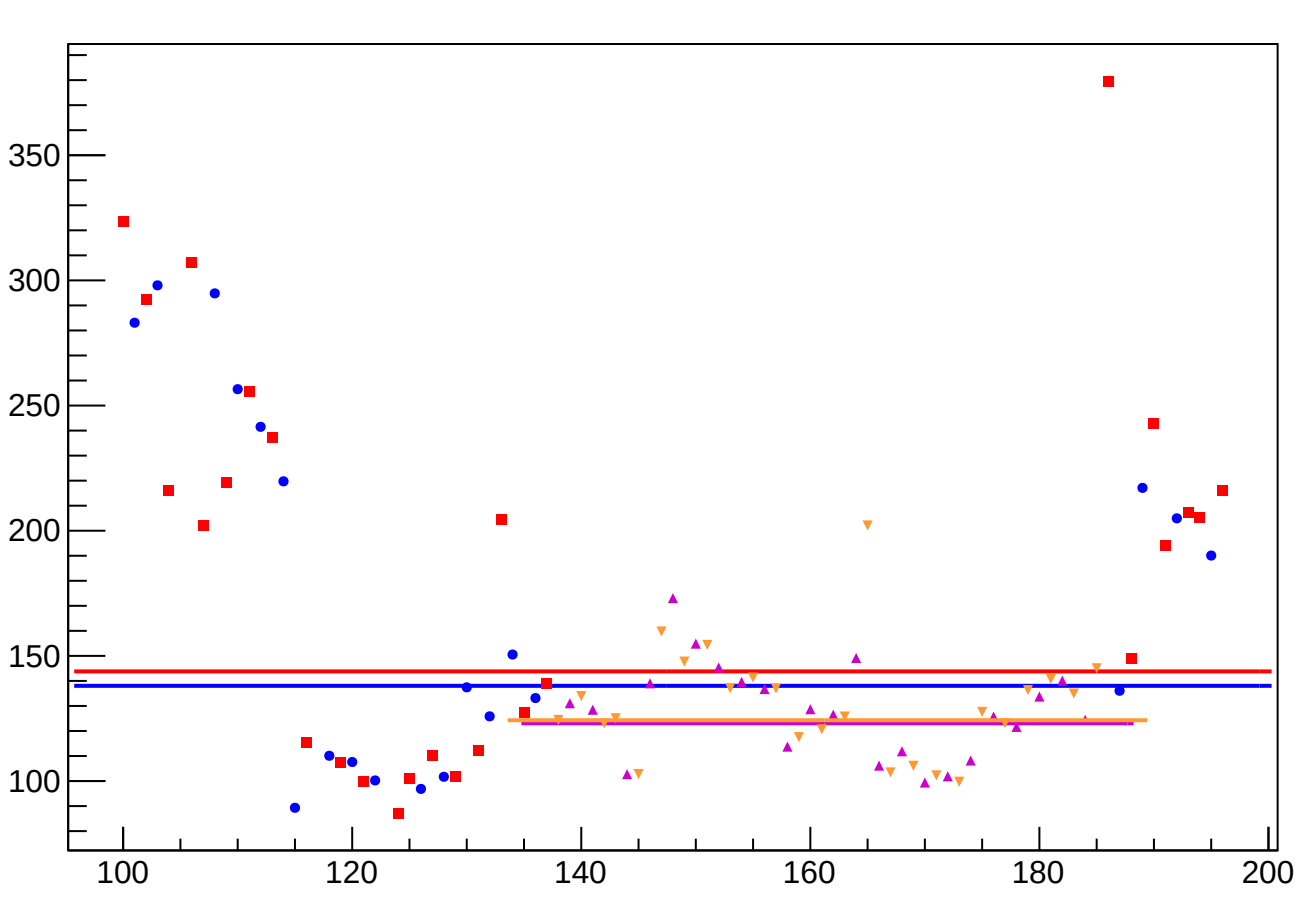
Left: 0.041+/-0.021 $\chi^2$/NDF: 48.8/47

Right: -0.018+/-0.033 $\chi^2$/NDF: 46.8/45

In: 0.006+/-0.025 $\chi^2$/NDF:44.1/42

Out: 0.041+/-0.024 $\chi^2$/NDF:52.8/50

All: 0.024+/-0.017 $\chi^2$/NDF: 97.9/93




Right In: 138.043+/-0.034 $\chi^2$/NDF: 2343800.4/19

Left Out: 124.292+/-0.020 $\chi^2$/NDF:841035.9/24

Right Out: 143.798+/-0.032 $\chi^2$/NDF: 2960205.6/25

Left In: 123.062+/-0.021 $\chi^2$/NDF:718844.3/22

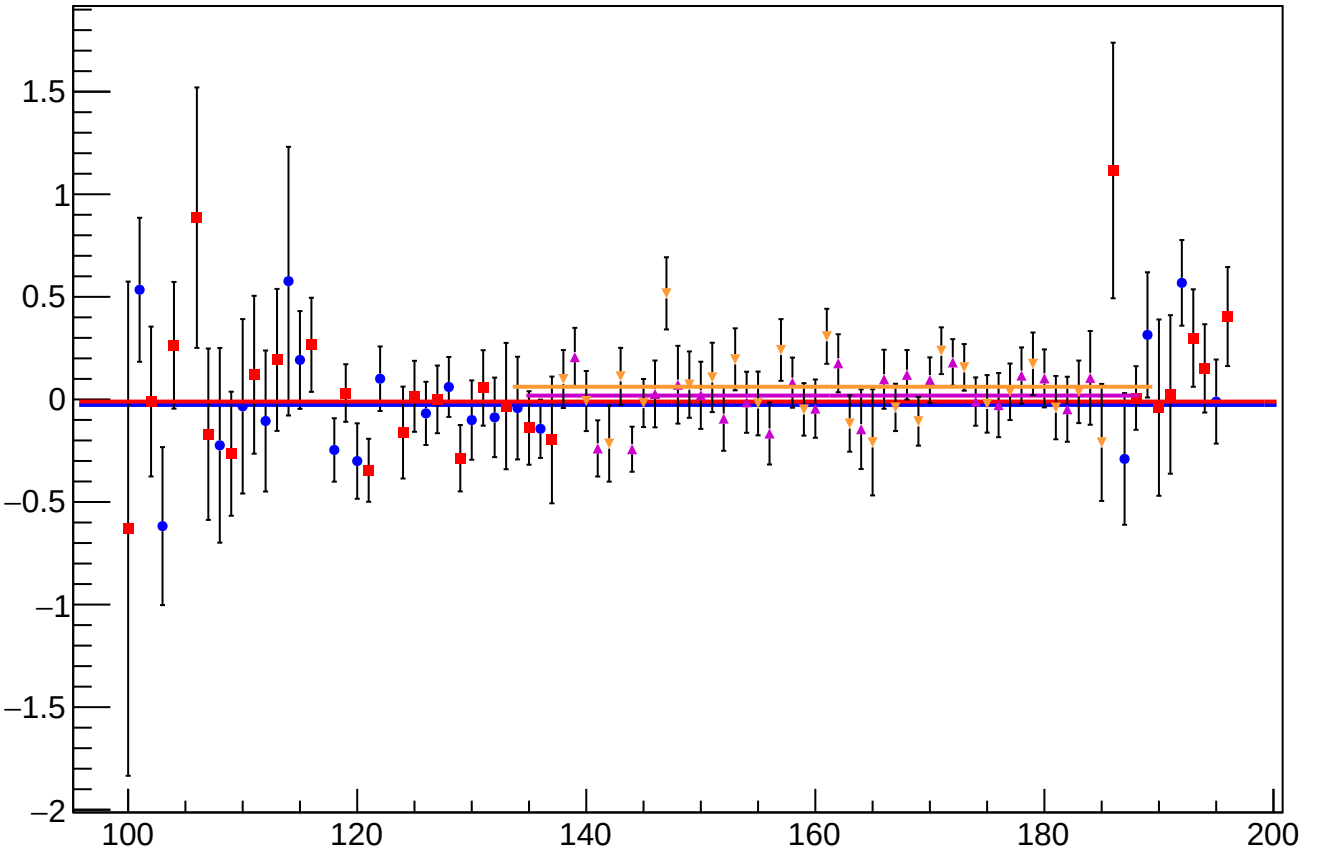
Left: 123.690+/-0.015 $\chi^2$/NDF: 1561677.7/47

Right: 141.068+/-0.023 $\chi^2$/NDF: 5319341.8/45

In: 127.178+/-0.018 $\chi^2$/NDF:3206008.5/42

Out: 129.880+/-0.017 $\chi^2$/NDF:4066268.8/50

All: 128.570+/-0.012 $\chi^2$/NDF: 7284338.0/93




Right In: -0.027+/-0.048 $\chi^2$/NDF: 23.1/19

Left Out: 0.062+/-0.029 $\chi^2$/NDF:27.4/24

Right Out: -0.011+/-0.045 $\chi^2$/NDF: 23.6/25

Left In: 0.019+/-0.029 $\chi^2$/NDF:20.3/22

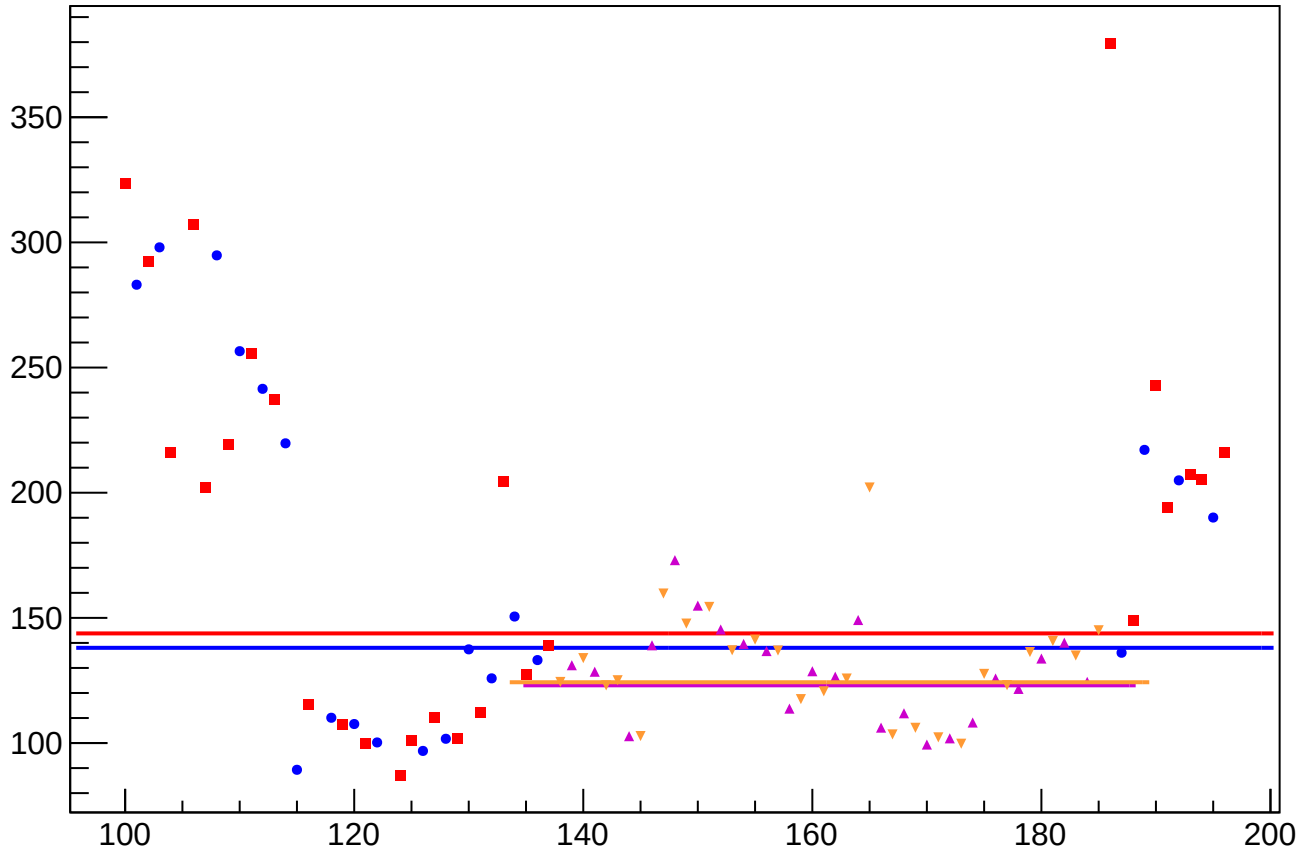
Left: 0.041+/-0.021 $\chi^2$/NDF: 48.8/47

Right: -0.018+/-0.033 $\chi^2$/NDF: 46.8/45

In: 0.006+/-0.025 $\chi^2$/NDF:44.1/42

Out: 0.041+/-0.024 $\chi^2$/NDF:52.8/50

All: 0.024+/-0.017 $\chi^2$/NDF: 97.9/93




Right In: 138.043+/-0.034 $\chi^2$/NDF: 2343800.4/19

Left Out: 124.292+/-0.020 $\chi^2$/NDF:841035.9/24

Right Out: 143.798+/-0.032 $\chi^2$/NDF: 2960205.6/25

Left In: 123.062+/-0.021 $\chi^2$/NDF:718844.3/22

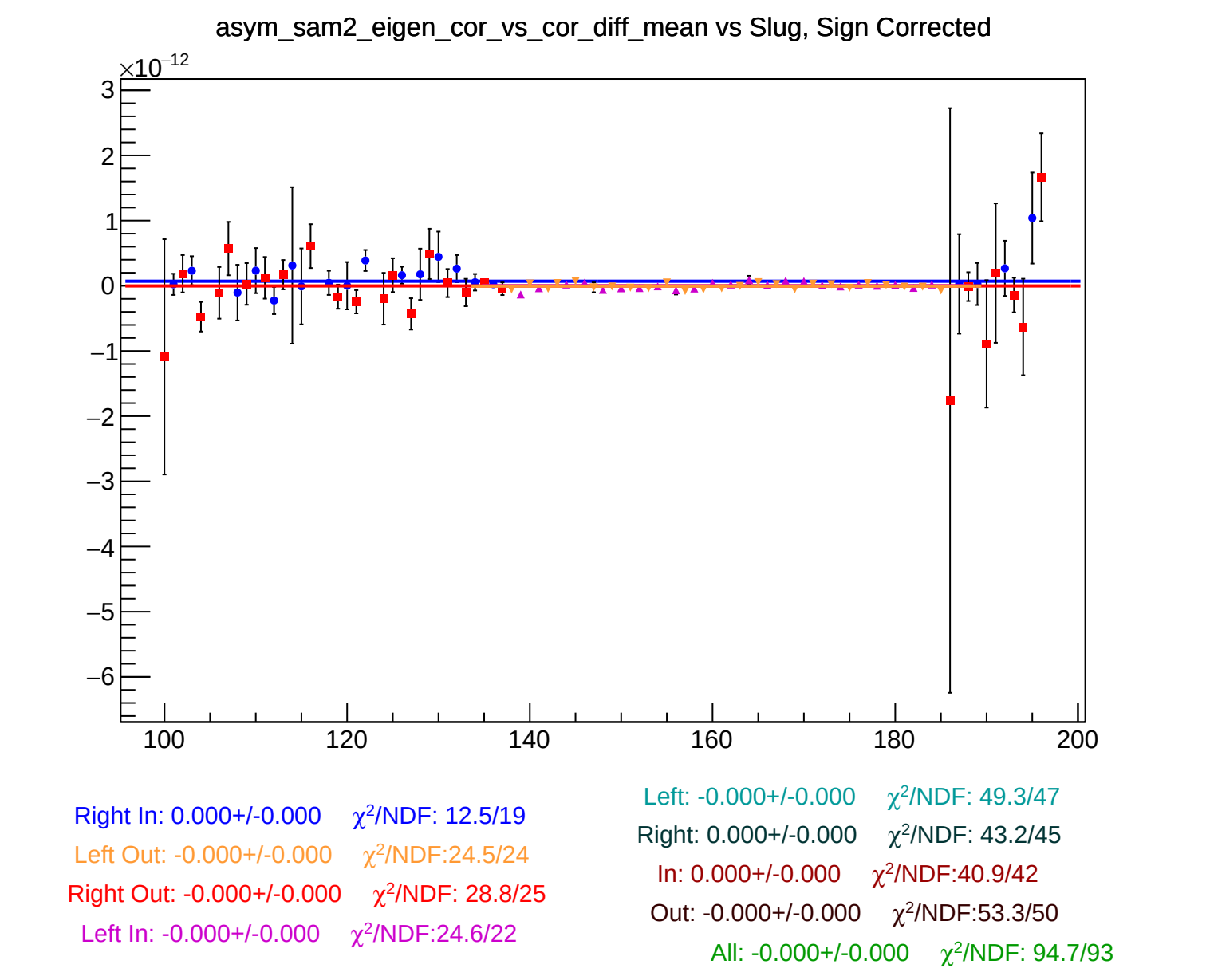
Left: 123.690+/-0.015 $\chi^2$/NDF: 1561677.7/47

Right: 141.068+/-0.023 $\chi^2$/NDF: 5319341.8/45

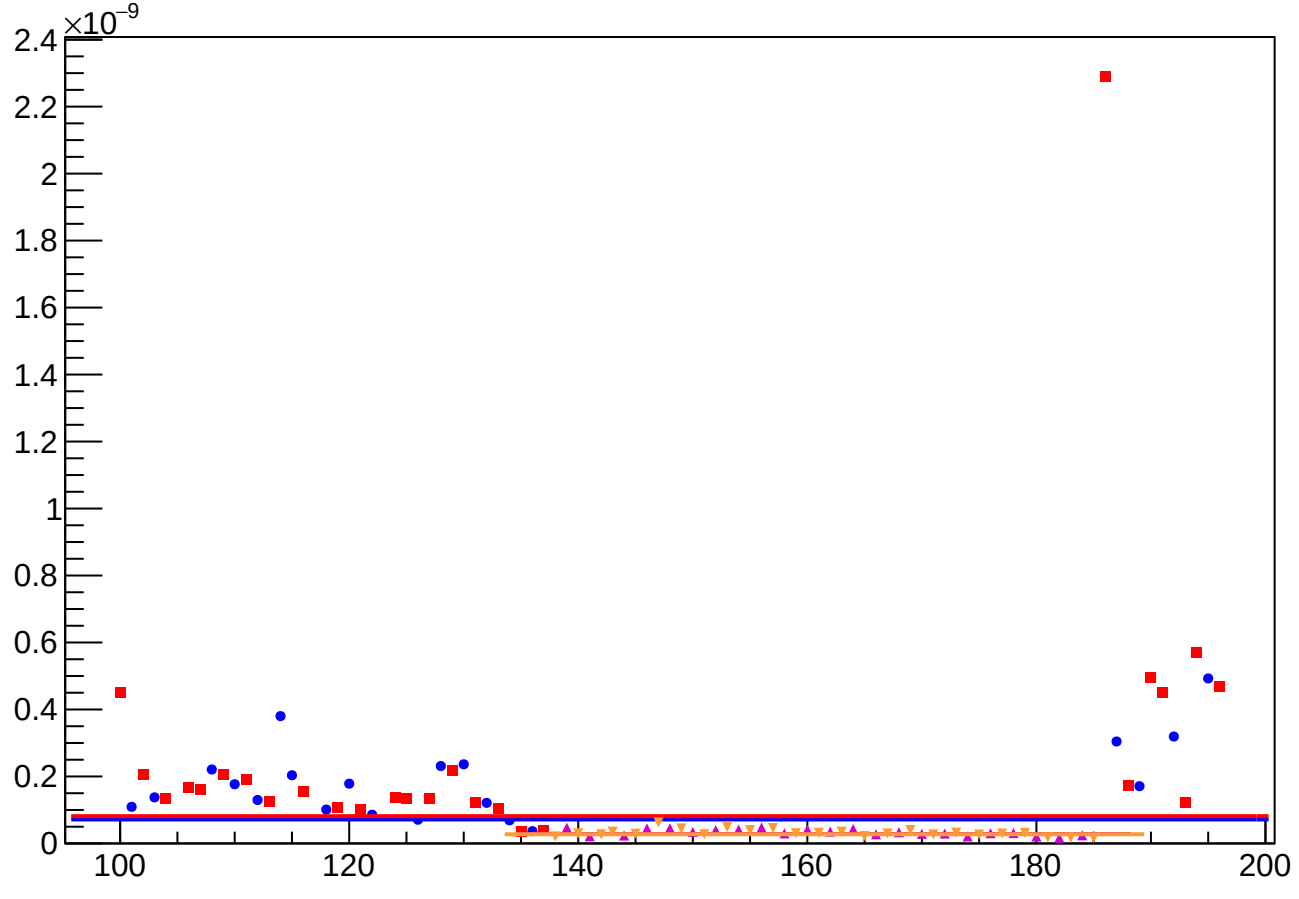
In: 127.178+/-0.018 $\chi^2$/NDF:3206008.5/42

Out: 129.880+/-0.017 $\chi^2$/NDF:4066268.8/50

All: 128.570+/-0.012 $\chi^2$/NDF: 7284338.0/93


asym_sam2_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
−4
−5
−6
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 12.5/19
Left Out: -0.000+/-0.000 χ²/NDF:24.5/24
Right Out: -0.000+/-0.000 χ²/NDF: 28.8/25
Left In: -0.000+/-0.000 χ²/NDF:24.6/22
Left: -0.000+/-0.000 χ²/NDF: 49.3/47
Right: 0.000+/-0.000 χ²/NDF: 43.2/45
In: 0.000+/-0.000 χ²/NDF:40.9/42
Out: -0.000+/-0.000 χ²/NDF:53.3/50
All: -0.000+/-0.000 χ²/NDF: 94.7/93

asym_sam2_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4999841.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2403081.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 6735086.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2191521.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4602499.0/47

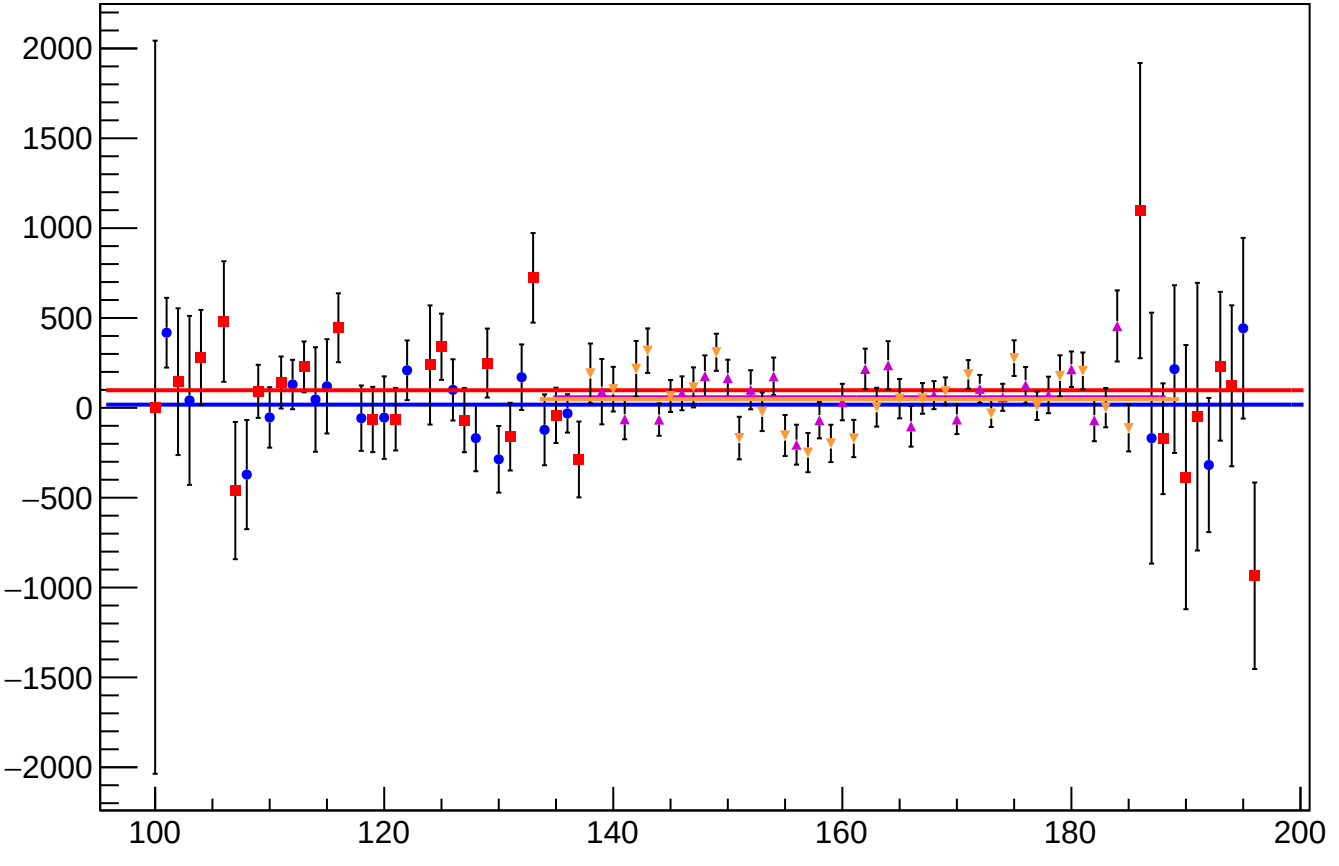
Right: 0.000+/-0.000 $\chi^2$/NDF: 11805185.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:10003714.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12964682.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 22977092.8/93

# reg_asym_sam3_mean vs Slug, Sign Corrected




Right In: 17.785+/-44.879 $\chi^2$/NDF: 15.6/19

Left Out: 48.392+/-20.423 $\chi^2$/NDF:53.6/24

Right Out: 97.982+/-44.438 $\chi^2$/NDF: 32.3/25

Left In: 59.014+/-21.156 $\chi^2$/NDF:30.6/22

Left: 53.516+/-14.694 $\chi^2$/NDF: 84.3/47

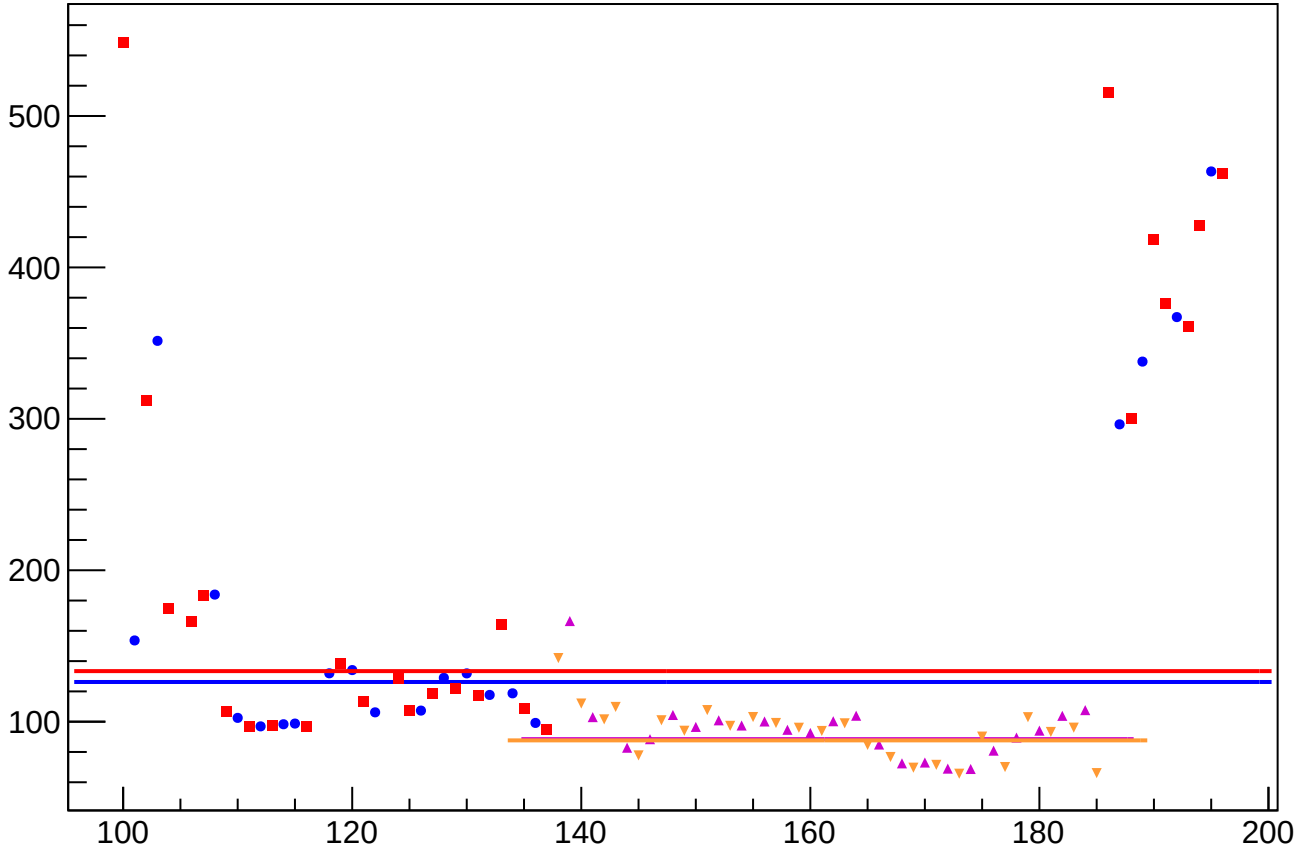
Right: 58.280+/-31.577 $\chi^2$/NDF: 49.6/45

In: 51.518+/-19.136 $\chi^2$/NDF:46.9/42

Out: 57.040+/-18.557 $\chi^2$/NDF:86.9/50

All: 54.364+/-13.322 $\chi^2$/NDF: 133.9/93

# reg_asym_sam3_rms vs Slug, Sign Corrected




Right In: 126.217+/-0.032 $\chi^2$/NDF: 3200931.0/19

Left Out: 87.656+/-0.014 $\chi^2$/NDF:1213284.3/24

Right Out: 133.394+/-0.031 $\chi^2$/NDF: 5017875.4/25

Left In: 88.482+/-0.015 $\chi^2$/NDF:1075689.1/22

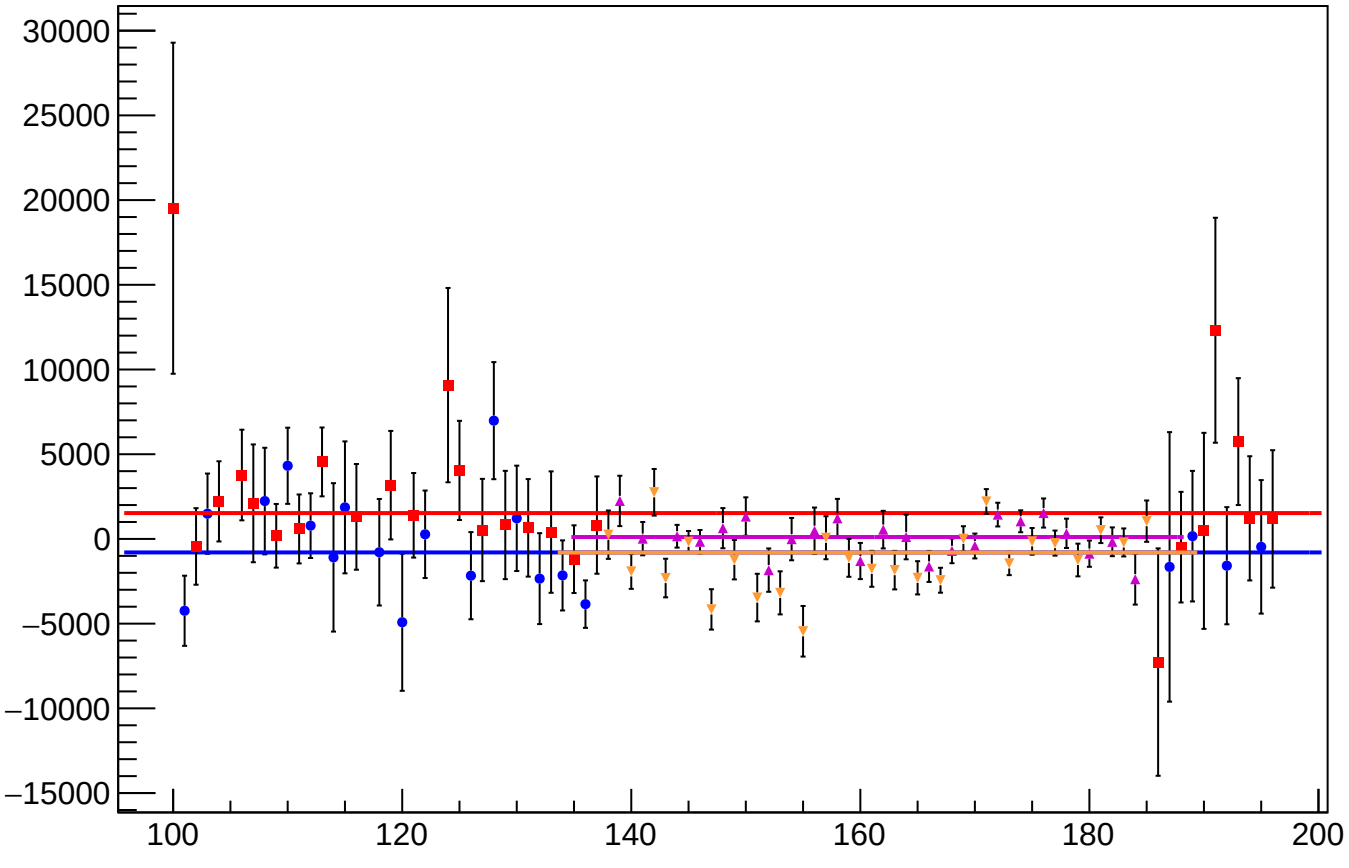
Left: 88.055+/-0.010 $\chi^2$/NDF: 2290553.6/47

Right: 129.841+/-0.022 $\chi^2$/NDF: 8244635.1/45

In: 95.343+/-0.014 $\chi^2$/NDF:5433483.6/42

Out: 95.632+/-0.013 $\chi^2$/NDF:7980482.9/50

All: 95.492+/-0.009 $\chi^2$/NDF: 13414201.1/93




Right In: -796.612+/-590.648 $\chi^2$/NDF: 23.6/19

Left Out: -801.506+/-187.755 $\chi^2$/NDF:71.9/24

Right Out: 1526.244+/-573.970 $\chi^2$/NDF: 19.0/25

Left In: 112.483+/-190.269 $\chi^2$/NDF:27.1/22

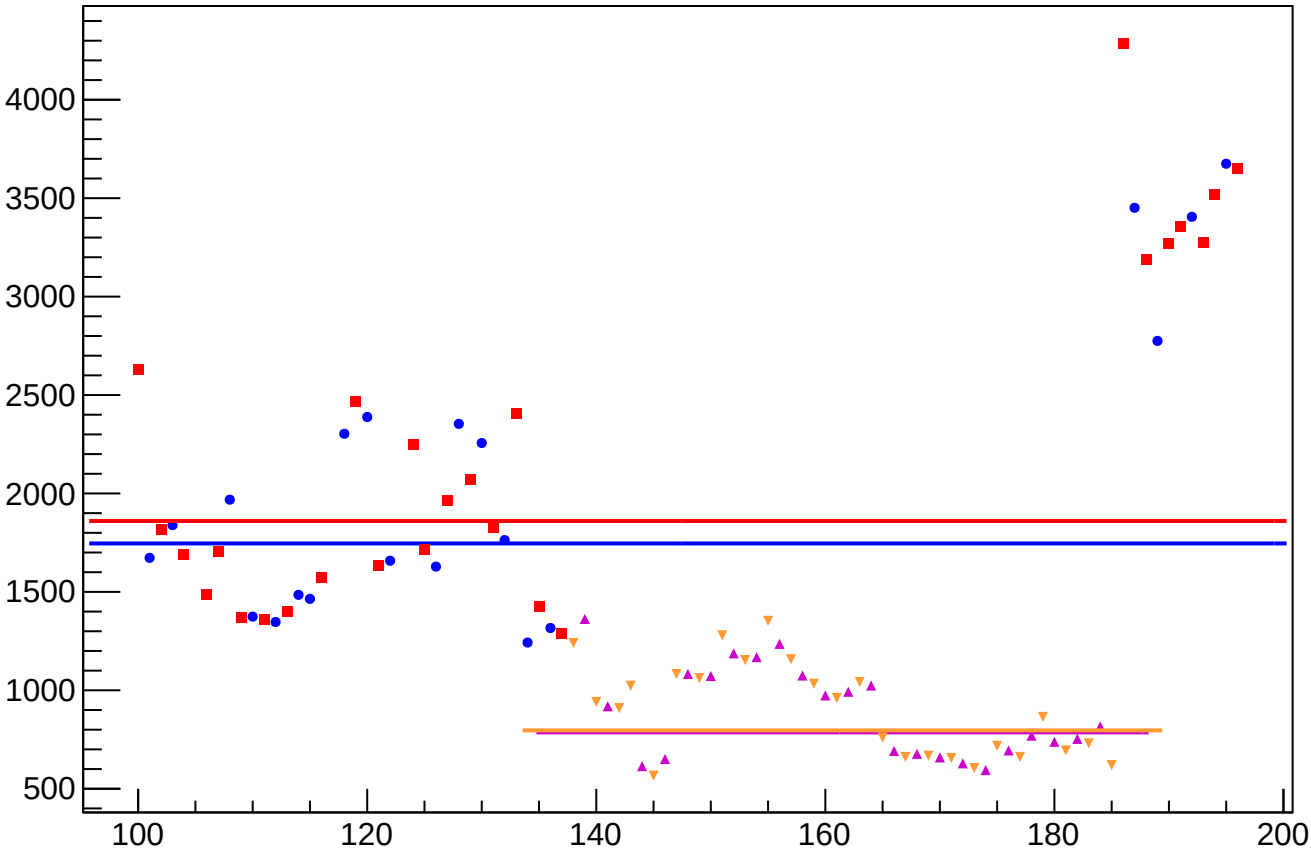
Left: -350.590+/-133.643 $\chi^2$/NDF: 110.6/47

Right: 398.073+/-411.628 $\chi^2$/NDF: 50.5/45

In: 27.014+/-181.105 $\chi^2$/NDF:52.8/42

Out: -576.501+/-178.450 $\chi^2$/NDF:105.7/50

All: -279.199+/-127.111 $\chi^2$/NDF: 164.1/93




Right In: 1746.094+/-0.418 $\chi^2$/NDF: 1891256.1/19

Left Out: 796.524+/-0.133 $\chi^2$/NDF:2417872.0/24

Right Out: 1860.155+/-0.406 $\chi^2$/NDF: 2677258.8/25

Left In: 786.336+/-0.135 $\chi^2$/NDF:2156583.9/22

Left: 791.497+/-0.094 $\chi^2$/NDF: 4577361.0/47

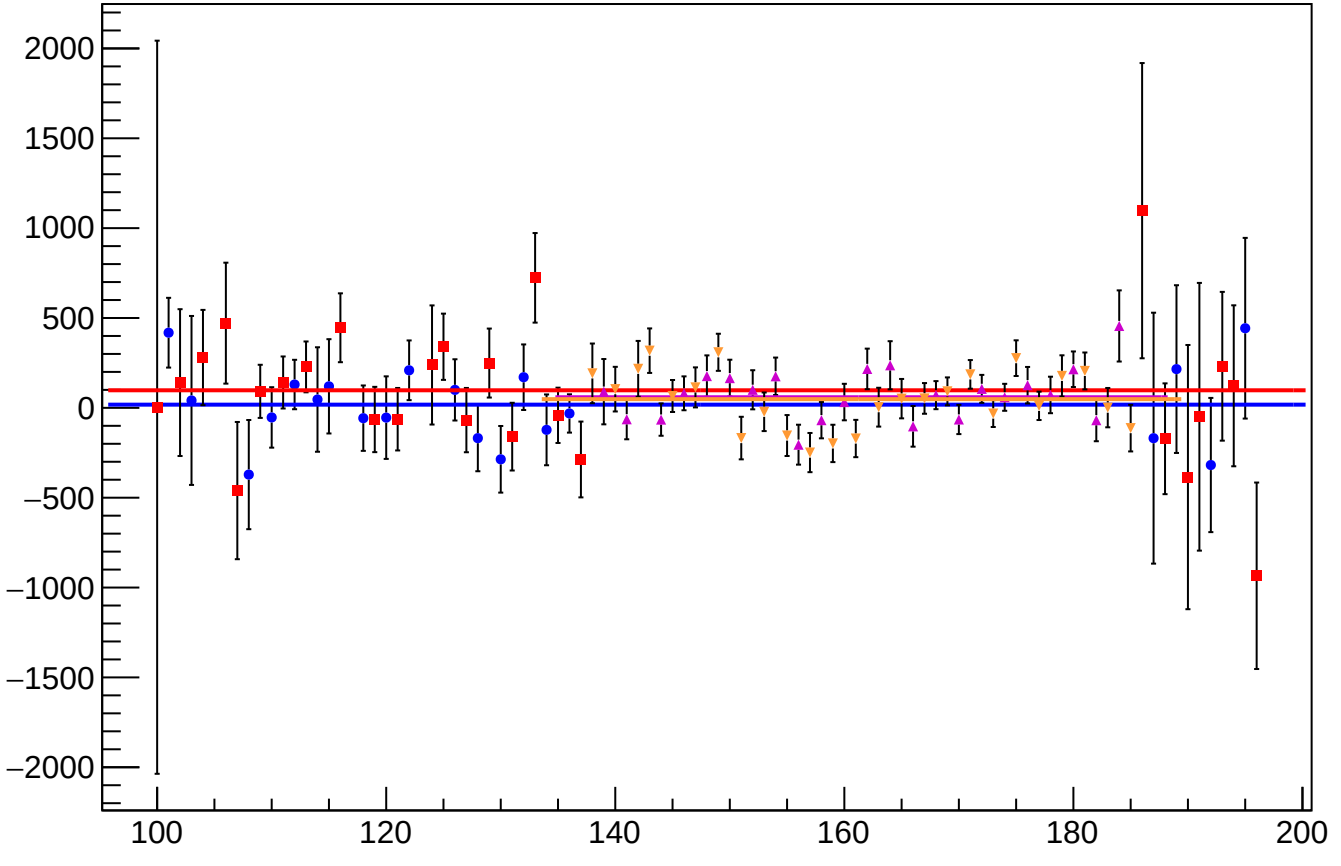
Right: 1804.757+/-0.291 $\chi^2$/NDF: 4606875.0/45

In: 876.568+/-0.128 $\chi^2$/NDF:8832123.5/42

Out: 899.336+/-0.126 $\chi^2$/NDF:11299305.0/50

All: 888.120+/-0.090 $\chi^2$/NDF: 20147466.8/93

# cor_asym_sam3_mean vs Slug, Sign Corrected




Right In: 17.772+/-44.879 $\chi^2$/NDF: 15.6/19

Left Out: 48.399+/-20.423 $\chi^2$/NDF:53.6/24

Right Out: 97.711+/-44.440 $\chi^2$/NDF: 32.3/25

Left In: 59.016+/-21.156 $\chi^2$/NDF:30.6/22

Left: 53.521+/-14.694 $\chi^2$/NDF: 84.3/47

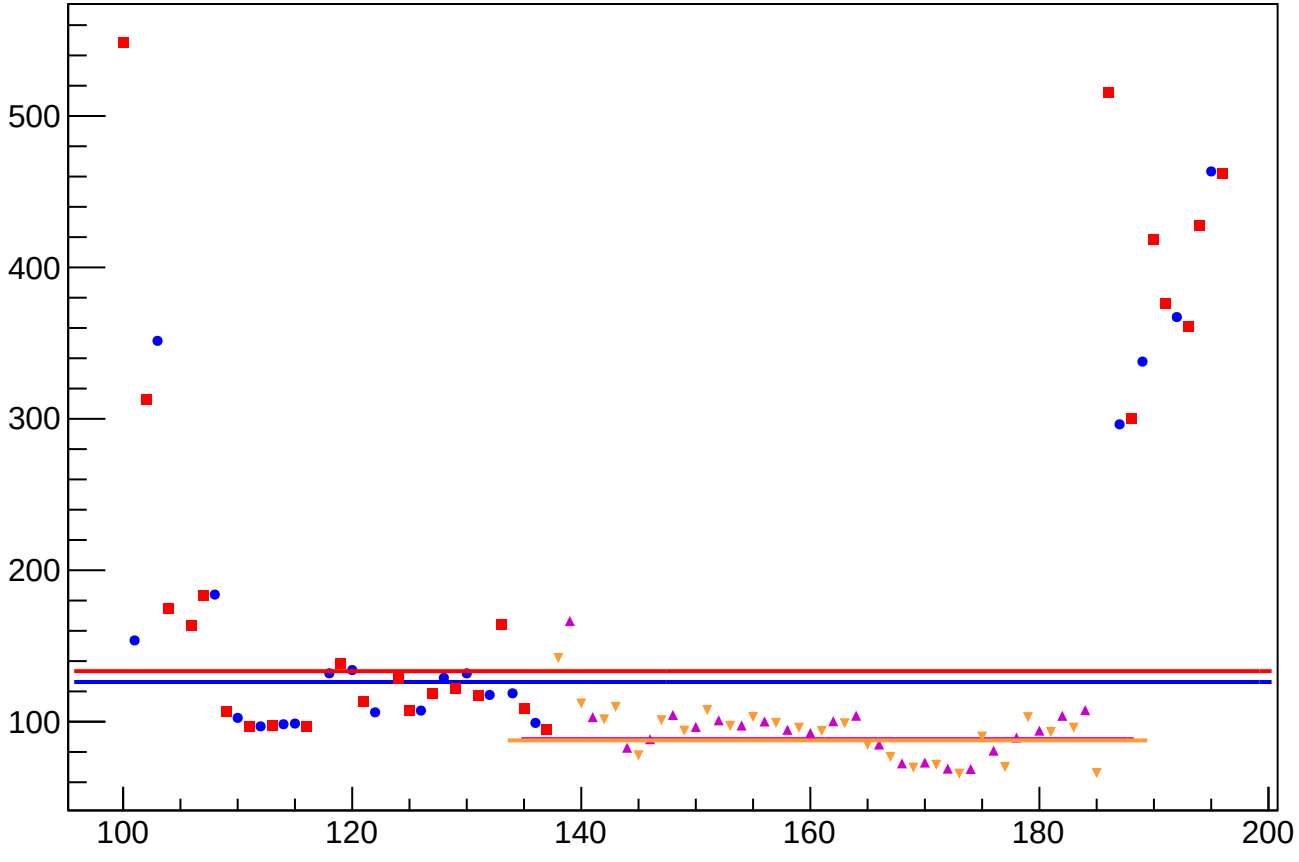
Right: 58.134+/-31.578 $\chi^2$/NDF: 49.5/45

In: 51.517+/-19.136 $\chi^2$/NDF:46.9/42

Out: 56.998+/-18.557 $\chi^2$/NDF:86.8/50

All: 54.342+/-13.322 $\chi^2$/NDF: 133.8/93

# cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 126.217+/-0.032 $\chi^2$/NDF: 3200933.2/19

Left Out: 87.656+/-0.014 $\chi^2$/NDF:1213284.3/24

Right Out: 133.348+/-0.031 $\chi^2$/NDF: 5015165.1/25

Left In: 88.482+/-0.015 $\chi^2$/NDF:1075689.1/22

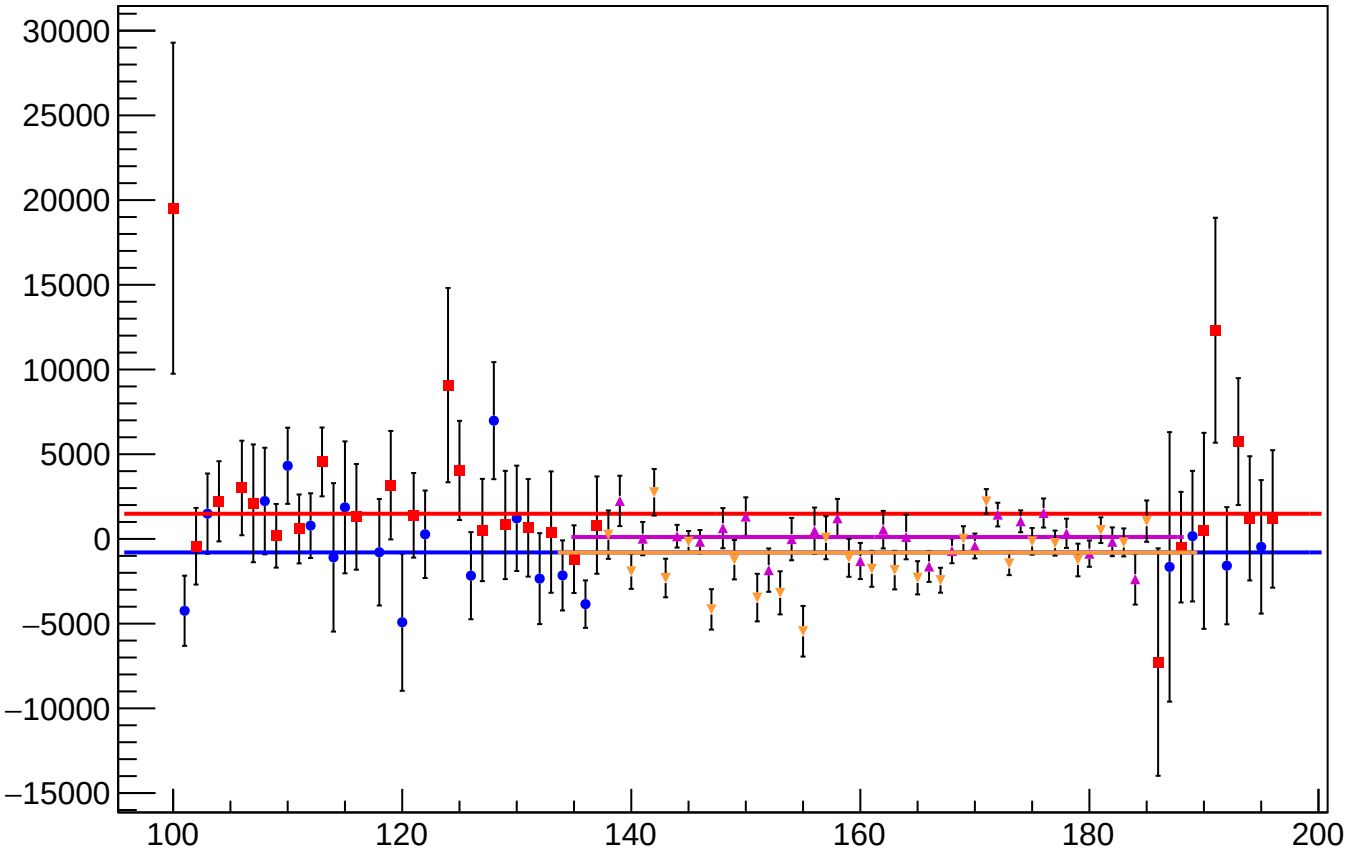
Left: 88.055+/-0.010 $\chi^2$/NDF: 2290553.6/47

Right: 129.817+/-0.022 $\chi^2$/NDF: 8241589.6/45

In: 95.343+/-0.014 $\chi^2$/NDF:5433485.2/42

Out: 95.623+/-0.013 $\chi^2$/NDF:7974015.9/50

All: 95.488+/-0.009 $\chi^2$/NDF: 13407721.4/93




Right In: -796.596+/-590.652 $\chi^2$/NDF: 23.6/19

Left Out: -801.499+/-187.755 $\chi^2$/NDF:71.9/24

Right Out: 1486.540+/-575.074 $\chi^2$/NDF: 18.5/25

Left In: 112.485+/-190.269 $\chi^2$/NDF:27.1/22

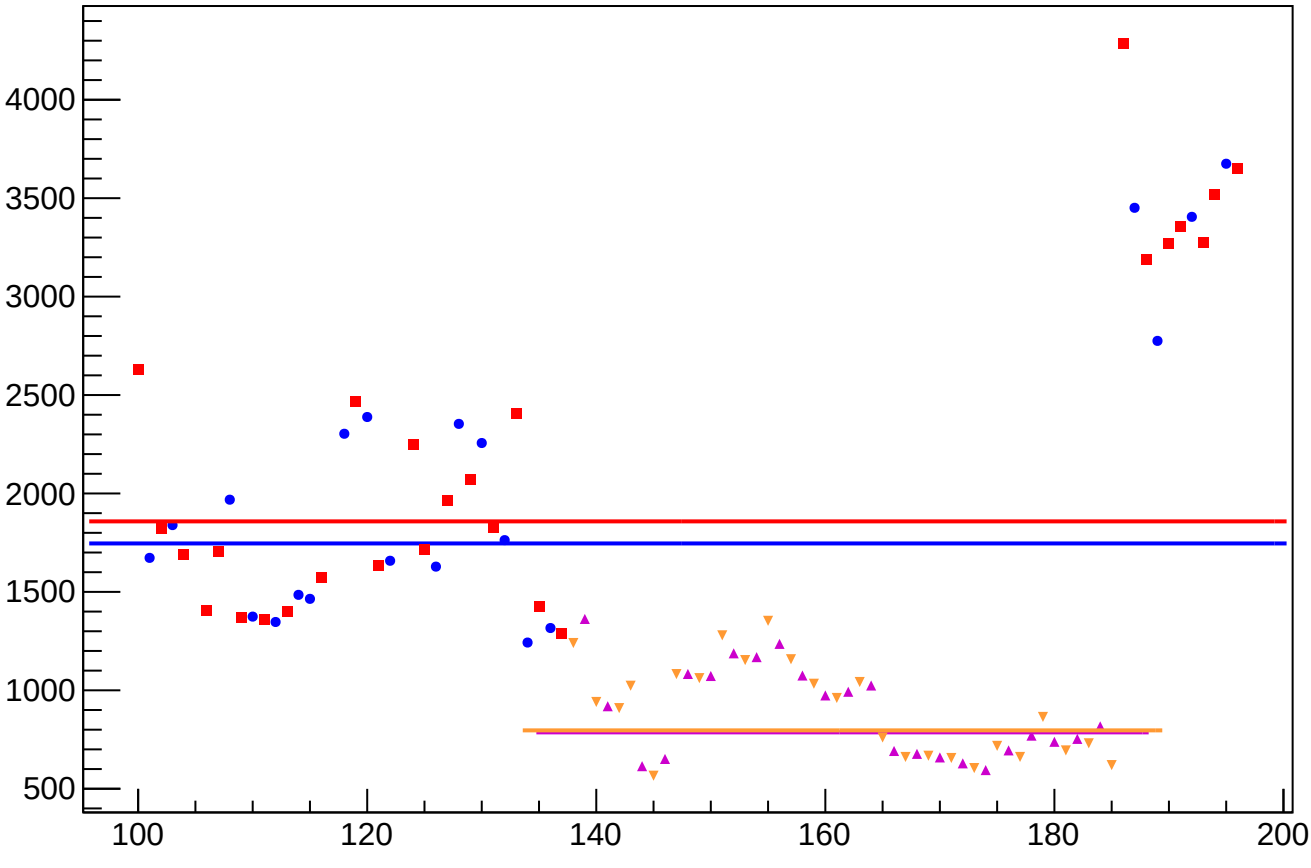
Left: -350.586+/-133.643 $\chi^2$/NDF: 110.6/47

Right: 375.476+/-412.036 $\chi^2$/NDF: 49.8/45

In: 27.018+/-181.105 $\chi^2$/NDF:52.8/42

Out: -581.099+/-178.483 $\chi^2$/NDF:104.7/50

All: -281.473+/-127.123 $\chi^2$/NDF: 163.2/93




Right In: 1746.104+/-0.418 $\chi^2$/NDF: 1891271.0/19

Left Out: 796.523+/-0.133 $\chi^2$/NDF:2417869.7/24

Right Out: 1858.207+/-0.407 $\chi^2$/NDF: 2691259.1/25

Left In: 786.336+/-0.135 $\chi^2$/NDF:2156582.1/22

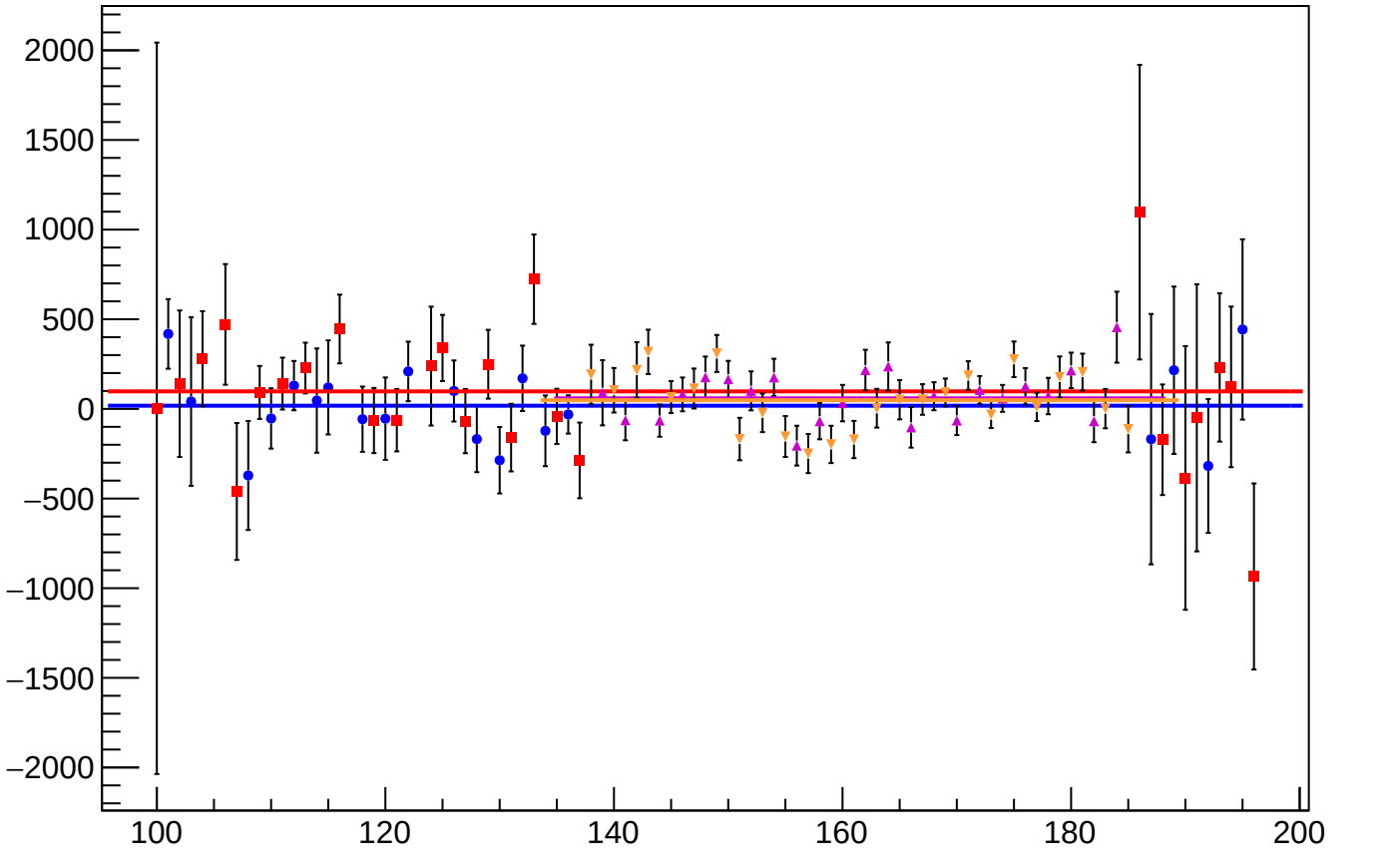
Left: 791.497+/-0.094 $\chi^2$/NDF: 4577356.9/47

Right: 1803.653+/-0.291 $\chi^2$/NDF: 4619514.8/45

In: 876.568+/-0.128 $\chi^2$/NDF:8832180.4/42

Out: 898.792+/-0.126 $\chi^2$/NDF:11269171.9/50

All: 887.842+/-0.090 $\chi^2$/NDF: 20116630.3/93




Right In: 17.772+/-44.879 $\chi^2$/NDF: 15.6/19

Left Out: 48.399+/-20.423 $\chi^2$/NDF:53.6/24

Right Out: 97.711+/-44.440 $\chi^2$/NDF: 32.3/25

Left In: 59.016+/-21.156 $\chi^2$/NDF:30.6/22

Left: 53.521+/-14.694 $\chi^2$/NDF: 84.3/47

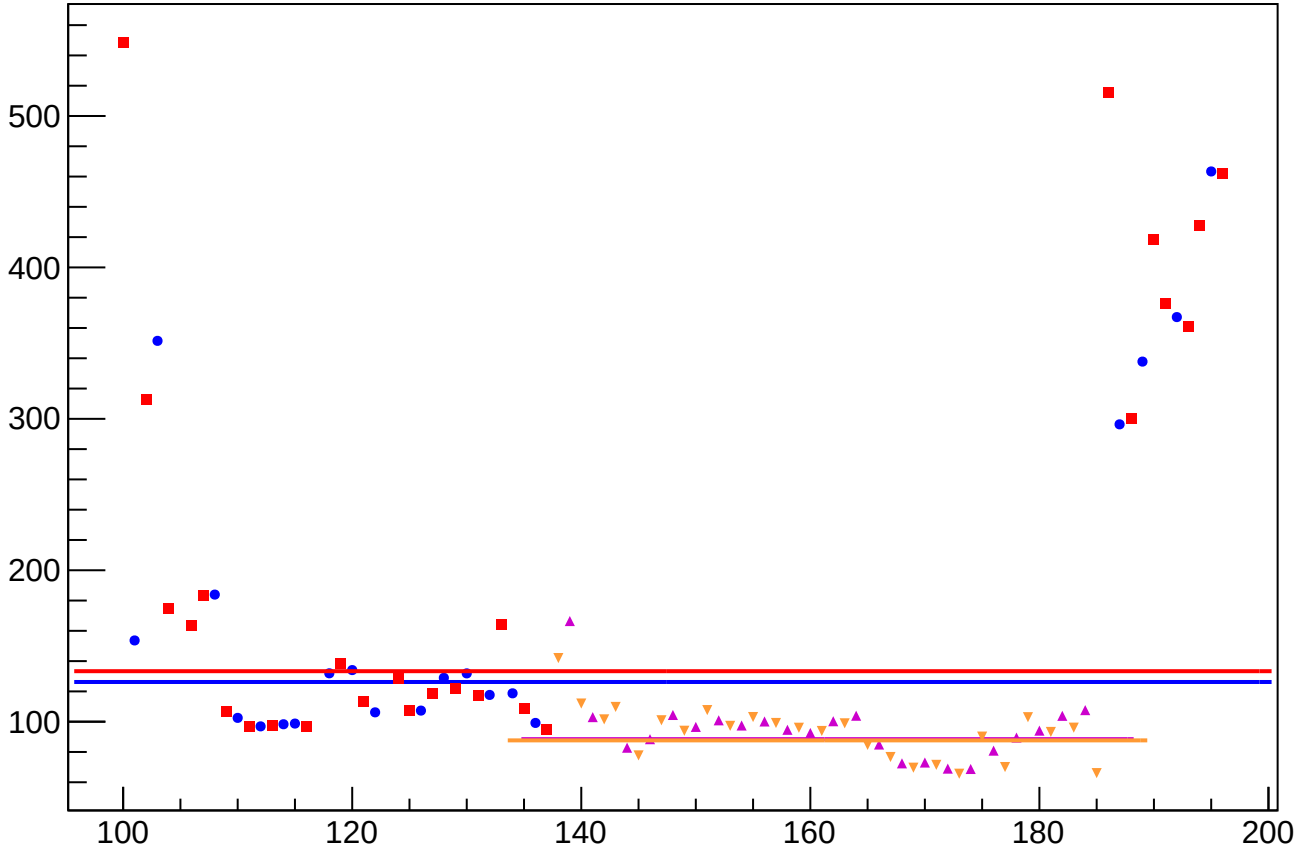
Right: 58.134+/-31.578 $\chi^2$/NDF: 49.5/45

In: 51.517+/-19.136 $\chi^2$/NDF:46.9/42

Out: 56.998+/-18.557 $\chi^2$/NDF:86.8/50

All: 54.342+/-13.322 $\chi^2$/NDF: 133.8/93

# eigen_cor_asym_sam3_rms vs Slug, Sign Corrected




Right In: 126.217+/-0.032 $\chi^2$/NDF: 3200933.2/19

Left Out: 87.656+/-0.014 $\chi^2$/NDF:1213284.3/24

Right Out: 133.348+/-0.031 $\chi^2$/NDF: 5015165.1/25

Left In: 88.482+/-0.015 $\chi^2$/NDF:1075689.1/22

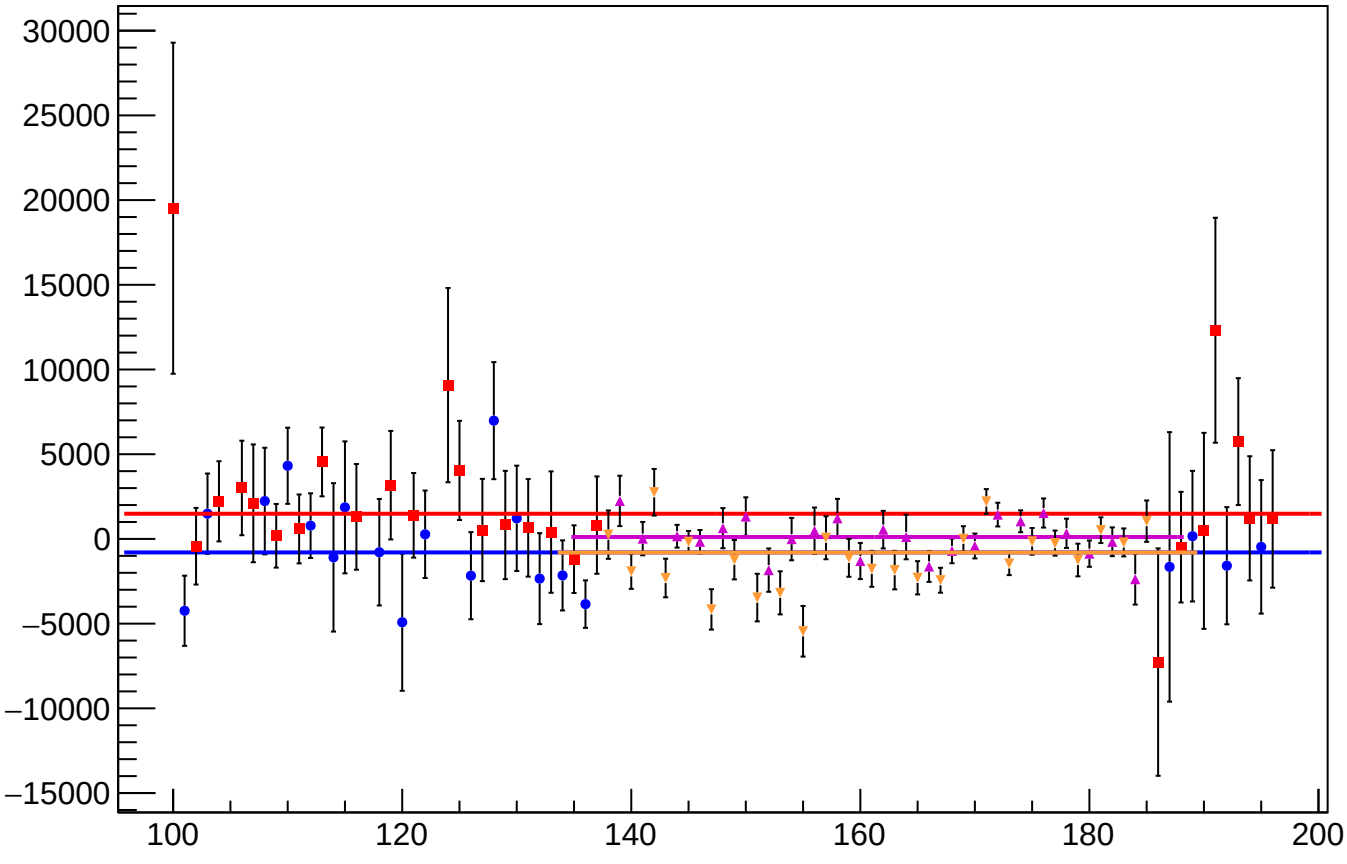
Left: 88.055+/-0.010 $\chi^2$/NDF: 2290553.6/47

Right: 129.817+/-0.022 $\chi^2$/NDF: 8241589.6/45

In: 95.343+/-0.014 $\chi^2$/NDF:5433485.2/42

Out: 95.623+/-0.013 $\chi^2$/NDF:7974015.9/50

All: 95.488+/-0.009 $\chi^2$/NDF: 13407721.4/93




Right In: -796.596+/-590.652 $\chi^2$/NDF: 23.6/19

Left Out: -801.499+/-187.755 $\chi^2$/NDF:71.9/24

Right Out: 1486.540+/-575.074 $\chi^2$/NDF: 18.5/25

Left In: 112.485+/-190.269 $\chi^2$/NDF:27.1/22

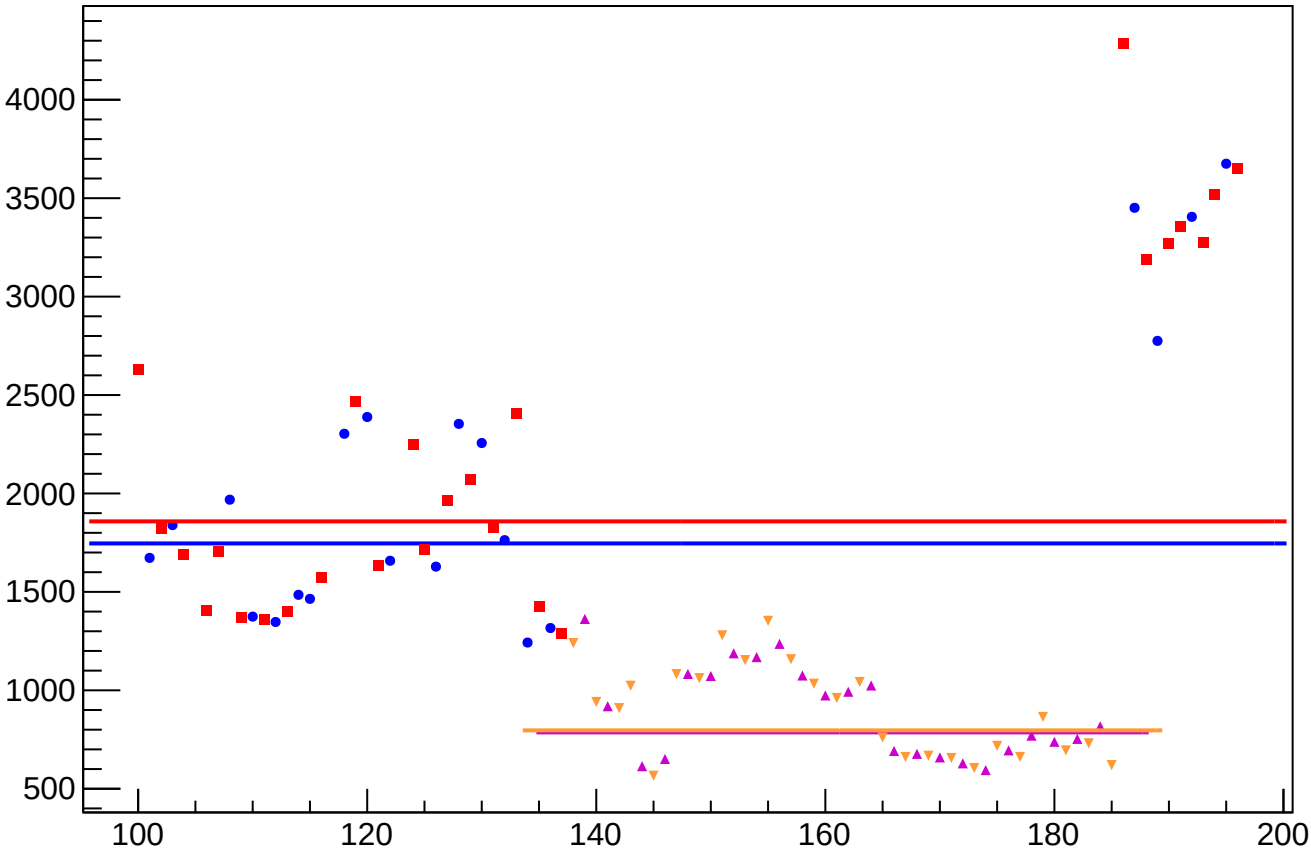
Left: -350.586+/-133.643 $\chi^2$/NDF: 110.6/47

Right: 375.476+/-412.036 $\chi^2$/NDF: 49.8/45

In: 27.018+/-181.105 $\chi^2$/NDF:52.8/42

Out: -581.099+/-178.483 $\chi^2$/NDF:104.7/50

All: -281.473+/-127.123 $\chi^2$/NDF: 163.2/93




Right In: 1746.104+/-0.418 $\chi^2$/NDF: 1891271.0/19

Left Out: 796.523+/-0.133 $\chi^2$/NDF:2417869.7/24

Right Out: 1858.207+/-0.407 $\chi^2$/NDF: 2691259.1/25

Left In: 786.336+/-0.135 $\chi^2$/NDF:2156582.1/22

Left: 791.497+/-0.094 $\chi^2$/NDF: 4577356.9/47

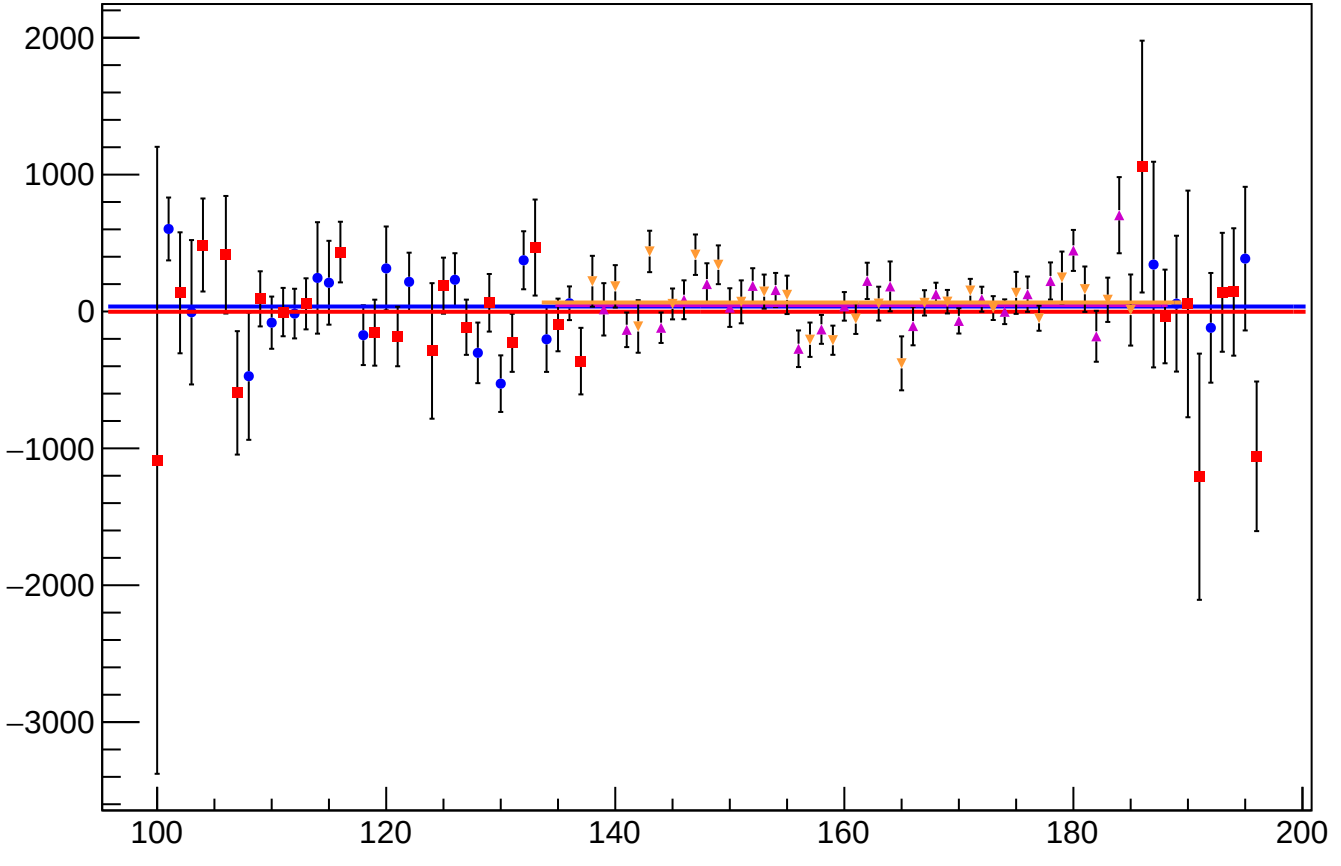
Right: 1803.653+/-0.291 $\chi^2$/NDF: 4619514.8/45

In: 876.568+/-0.128 $\chi^2$/NDF:8832180.4/42

Out: 898.792+/-0.126 $\chi^2$/NDF:11269171.9/50

All: 887.842+/-0.090 $\chi^2$/NDF: 20116630.3/93

# dit_asym_sam3_mean vs Slug, Sign Corrected




Right In: 36.275+/-53.653 $\chi^2$/NDF: 25.9/19

Left Out: 65.702+/-25.059 $\chi^2$/NDF:40.0/24

Right Out: -1.955+/-53.953 $\chi^2$/NDF: 24.4/25

Left In: 47.039+/-25.696 $\chi^2$/NDF:38.6/22

Left: 56.605+/-17.941 $\chi^2$/NDF: 78.9/47

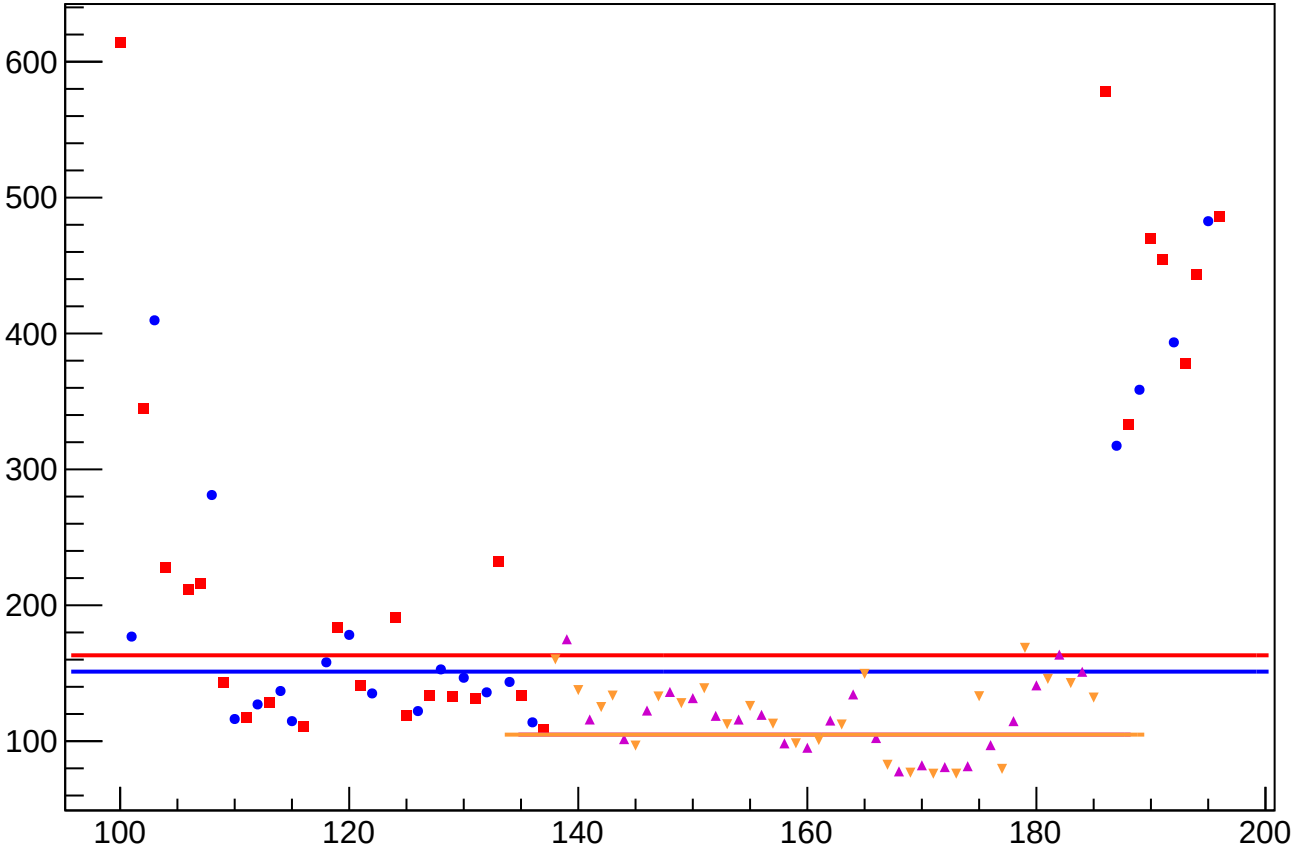
Right: 17.267+/-38.044 $\chi^2$/NDF: 50.6/45

In: 45.031+/-23.175 $\chi^2$/NDF:64.6/42

Out: 53.696+/-22.727 $\chi^2$/NDF:65.7/50

All: 49.448+/-16.227 $\chi^2$/NDF: 130.4/93

# dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 151.172+/-0.038 $\chi^2$/NDF: 3042723.1/19

Left Out: 104.810+/-0.018 $\chi^2$/NDF:2242795.3/24

Right Out: 163.184+/-0.038 $\chi^2$/NDF: 4660915.0/25

Left In: 104.835+/-0.018 $\chi^2$/NDF:1614476.5/22

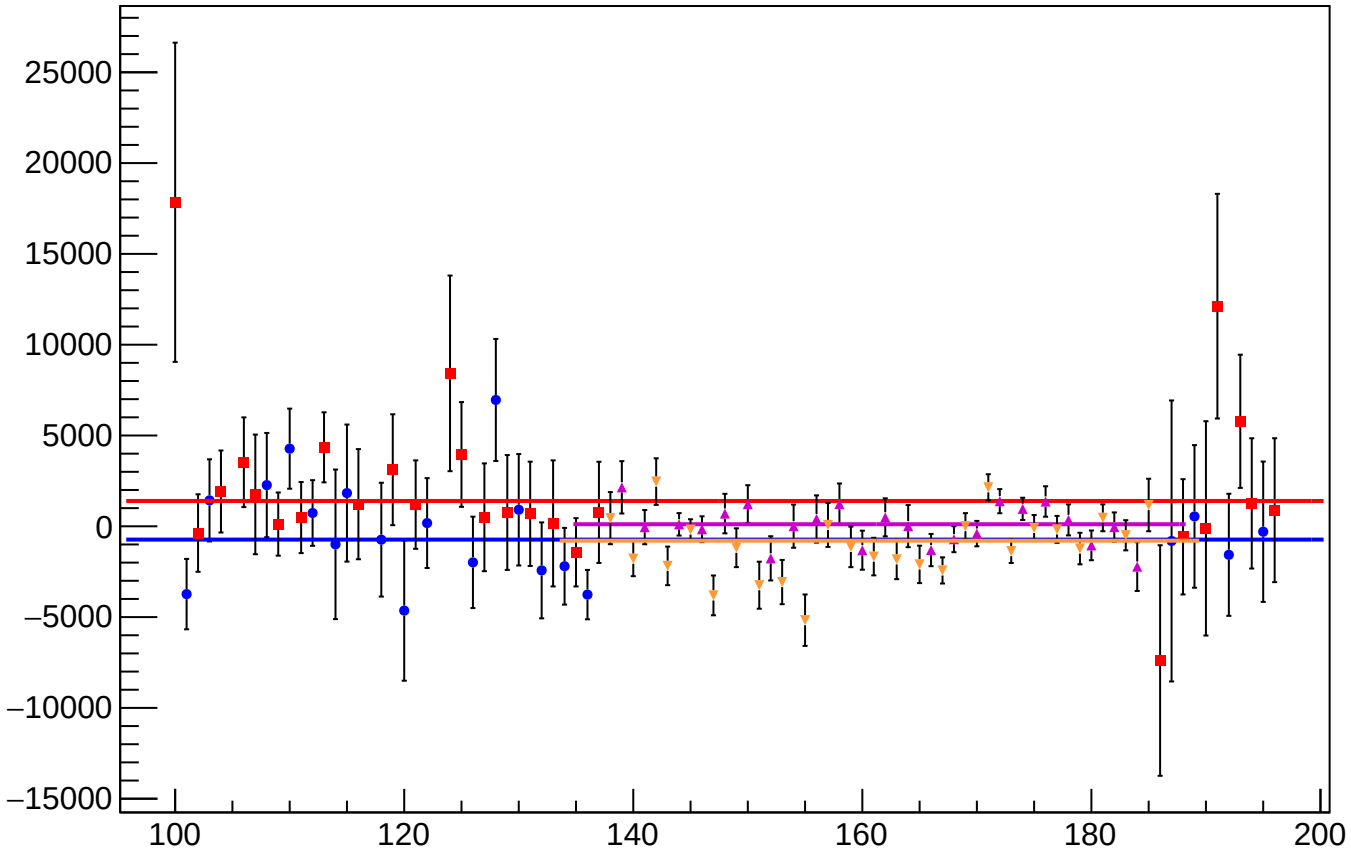
Left: 104.822+/-0.013 $\chi^2$/NDF: 3857272.7/47

Right: 157.144+/-0.027 $\chi^2$/NDF: 7753478.2/45

In: 113.480+/-0.016 $\chi^2$/NDF:5870641.2/42

Out: 115.168+/-0.016 $\chi^2$/NDF:8829453.1/50

All: 114.341+/-0.011 $\chi^2$/NDF: 14705504.1/93




Right In: -731.785+/-572.216 $\chi^2$/NDF: 23.6/19

Left Out: -793.070+/-179.897 $\chi^2$/NDF:70.0/24

Right Out: 1394.503+/-549.759 $\chi^2$/NDF: 20.4/25

Left In: 113.680+/-183.126 $\chi^2$/NDF:26.3/22

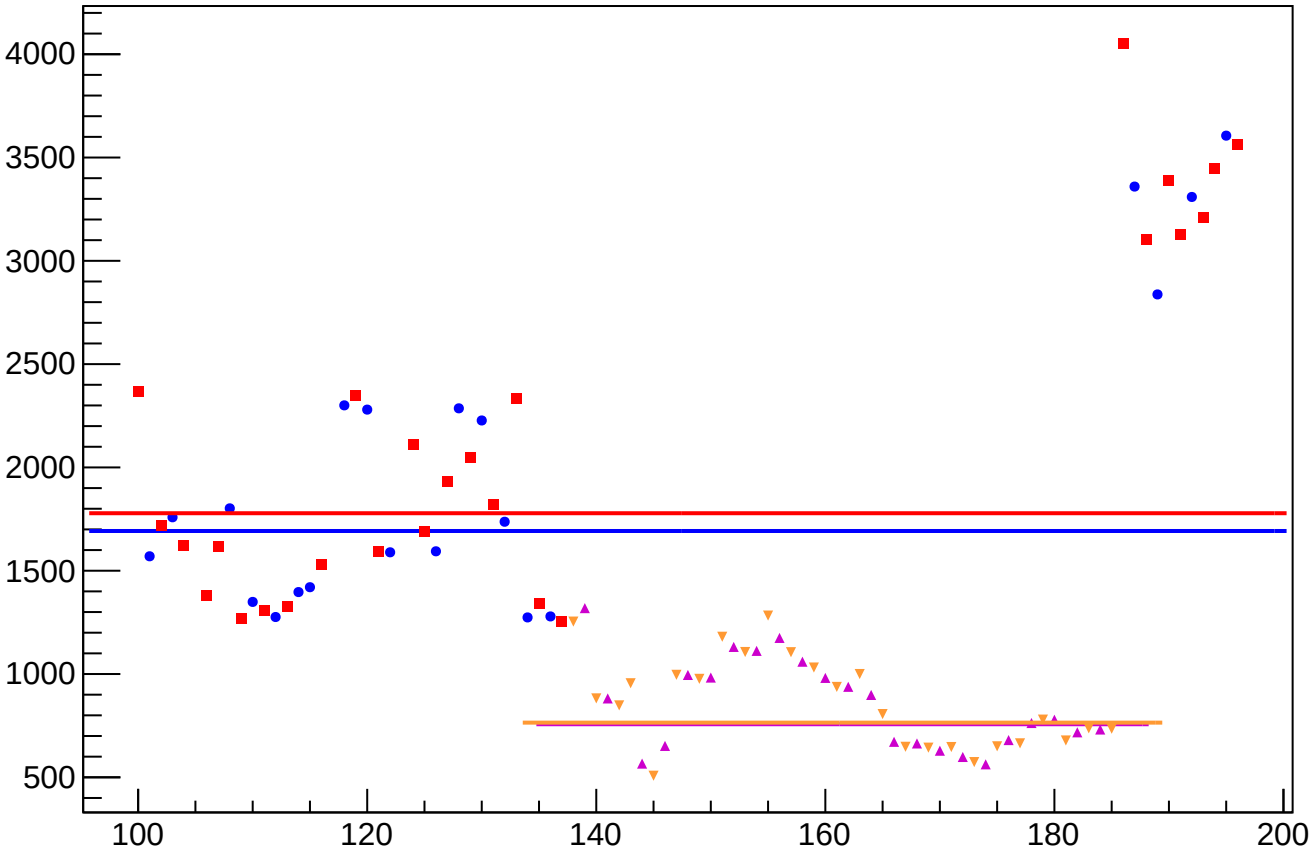
Left: -347.760+/-128.333 $\chi^2$/NDF: 108.8/47

Right: 373.900+/-396.440 $\chi^2$/NDF: 51.2/45

In: 35.133+/-174.412 $\chi^2$/NDF:51.9/42

Out: -581.485+/-170.975 $\chi^2$/NDF:104.7/50

All: -279.310+/-122.095 $\chi^2$/NDF: 163.0/93




Right In: 1692.309+/-0.405 $\chi^2$/NDF: 1919676.7/19

Left Out: 764.734+/-0.127 $\chi^2$/NDF:2425556.5/24

Right Out: 1778.318+/-0.389 $\chi^2$/NDF: 2819532.9/25

Left In: 756.927+/-0.129 $\chi^2$/NDF:2115280.1/22

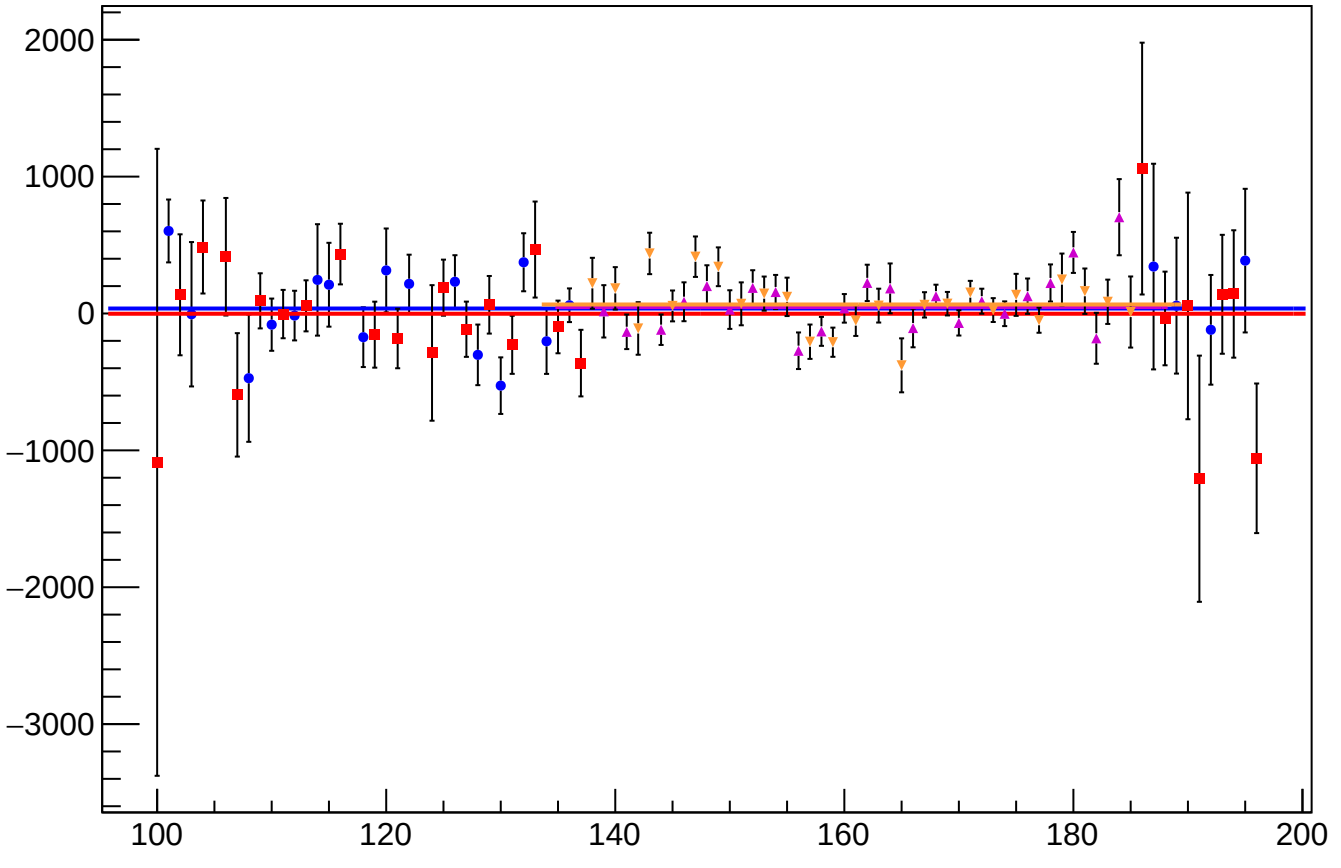
Left: 760.900+/-0.091 $\chi^2$/NDF: 4542686.7/47

Right: 1737.034+/-0.280 $\chi^2$/NDF: 4762706.1/45

In: 843.827+/-0.123 $\chi^2$/NDF:8882730.1/42

Out: 862.769+/-0.121 $\chi^2$/NDF:11385906.0/50

All: 853.487+/-0.086 $\chi^2$/NDF: 20280666.5/93




Right In: 36.274+/-53.653 $\chi^2$/NDF: 25.9/19

Left Out: 65.703+/-25.059 $\chi^2$/NDF:40.0/24

Right Out: -1.958+/-53.953 $\chi^2$/NDF: 24.4/25

Left In: 47.038+/-25.696 $\chi^2$/NDF:38.6/22

Left: 56.604+/-17.941 $\chi^2$/NDF: 78.9/47

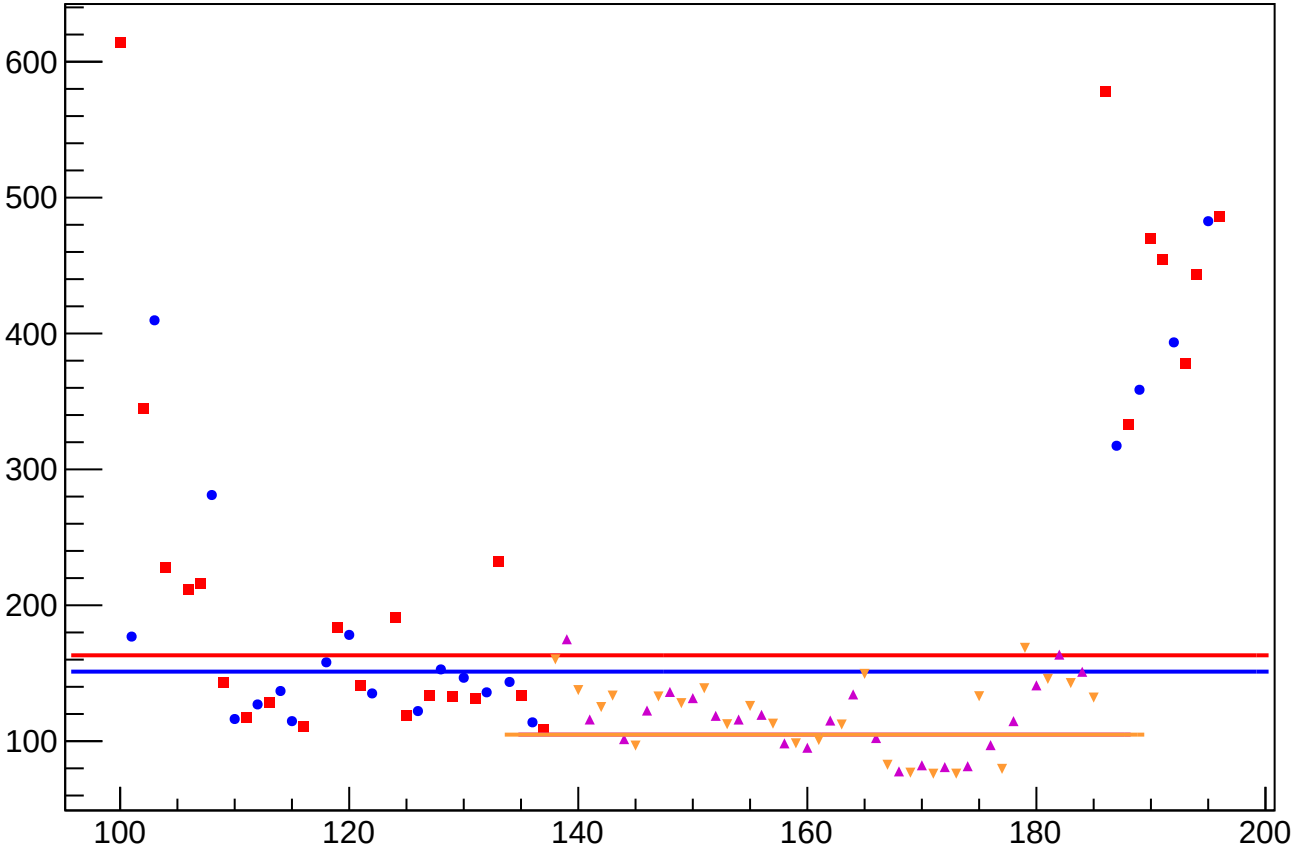
Right: 17.264+/-38.044 $\chi^2$/NDF: 50.6/45

In: 45.029+/-23.175 $\chi^2$/NDF:64.6/42

Out: 53.696+/-22.727 $\chi^2$/NDF:65.7/50

All: 49.448+/-16.227 $\chi^2$/NDF: 130.4/93

# eigen_dit_asym_sam3_rms vs Slug, Sign Corrected




Right In: 151.172+/-0.038 $\chi^2$/NDF: 3042726.1/19

Left Out: 104.810+/-0.018 $\chi^2$/NDF:2242815.0/24

Right Out: 163.184+/-0.038 $\chi^2$/NDF: 4660912.9/25

Left In: 104.835+/-0.018 $\chi^2$/NDF:1614484.2/22

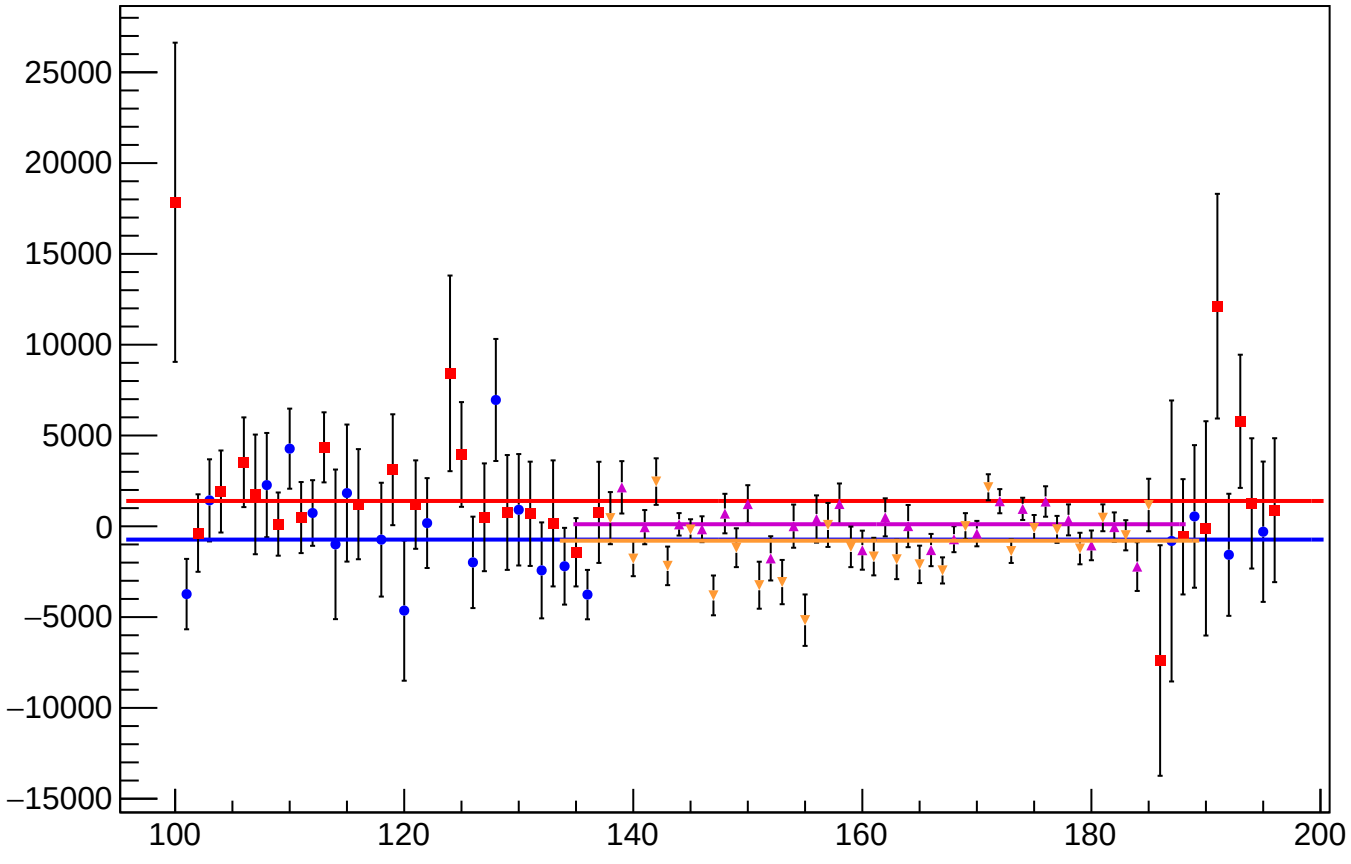
Left: 104.822+/-0.013 $\chi^2$/NDF: 3857300.1/47

Right: 157.145+/-0.027 $\chi^2$/NDF: 7753480.9/45

In: 113.480+/-0.016 $\chi^2$/NDF:5870646.7/42

Out: 115.169+/-0.016 $\chi^2$/NDF:8829473.5/50

All: 114.341+/-0.011 $\chi^2$/NDF: 14705530.4/93




Right In: -731.783+/-572.215 $\chi^2$/NDF: 23.6/19

Left Out: -793.071+/-179.896 $\chi^2$/NDF:70.0/24

Right Out: 1394.502+/-549.758 $\chi^2$/NDF: 20.4/25

Left In: 113.680+/-183.125 $\chi^2$/NDF:26.3/22

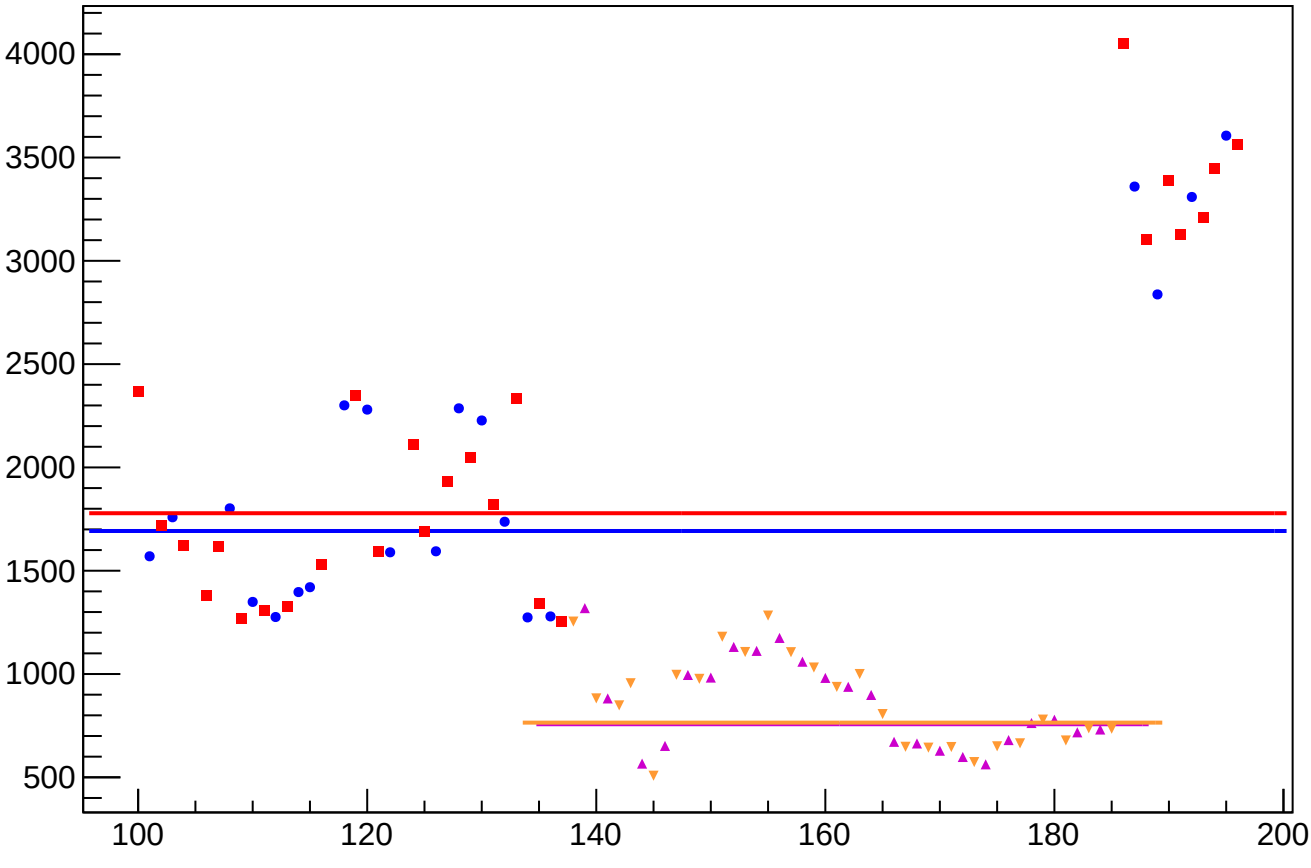
Left: -347.761+/-128.332 $\chi^2$/NDF: 108.8/47

Right: 373.901+/-396.439 $\chi^2$/NDF: 51.2/45

In: 35.133+/-174.412 $\chi^2$/NDF:51.9/42

Out: -581.486+/-170.975 $\chi^2$/NDF:104.7/50

All: -279.311+/-122.095 $\chi^2$/NDF: 163.0/93




Right In: 1692.308+/-0.405 $\chi^2$/NDF: 1919675.1/19

Left Out: 764.734+/-0.127 $\chi^2$/NDF:2425549.9/24

Right Out: 1778.316+/-0.389 $\chi^2$/NDF: 2819531.7/25

Left In: 756.926+/-0.129 $\chi^2$/NDF:2115275.0/22

Left: 760.899+/-0.091 $\chi^2$/NDF: 4542675.0/47

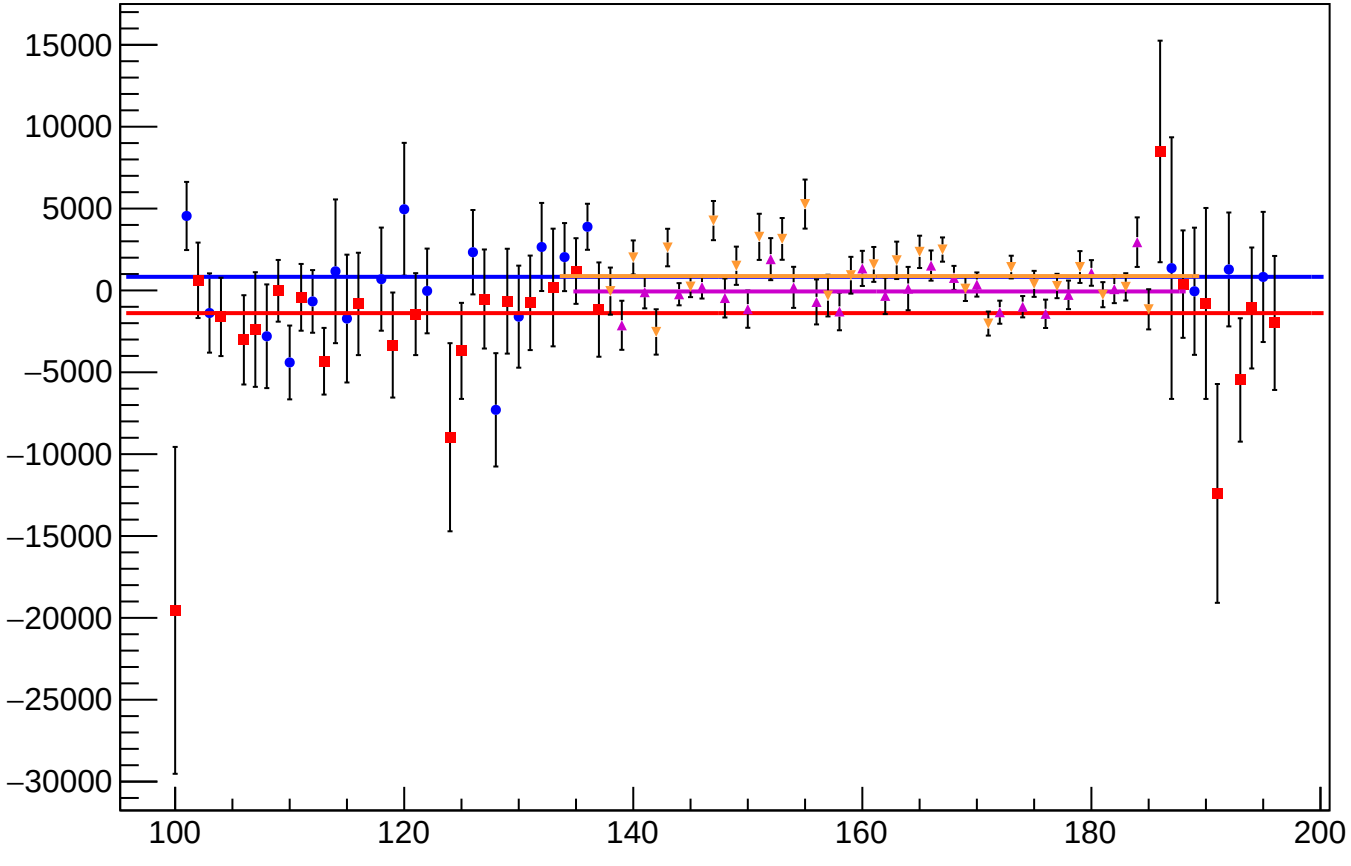
Right: 1737.032+/-0.280 $\chi^2$/NDF: 4762703.0/45

In: 843.826+/-0.123 $\chi^2$/NDF:8882722.6/42

Out: 862.769+/-0.121 $\chi^2$/NDF:11385892.0/50

All: 853.486+/-0.086 $\chi^2$/NDF: 20280645.1/93

# asym_sam3_mean vs Slug, Sign Corrected




Right In: 830.425+/-593.433 $\chi^2$/NDF: 25.0/19

Left Out: 876.482+/-188.998 $\chi^2$/NDF:67.3/24

Right Out: -1386.227+/-577.196 $\chi^2$/NDF: 18.5/25

Left In: -62.754+/-191.596 $\chi^2$/NDF:27.1/22

Left: 413.275+/-134.551 $\chi^2$/NDF: 106.6/47

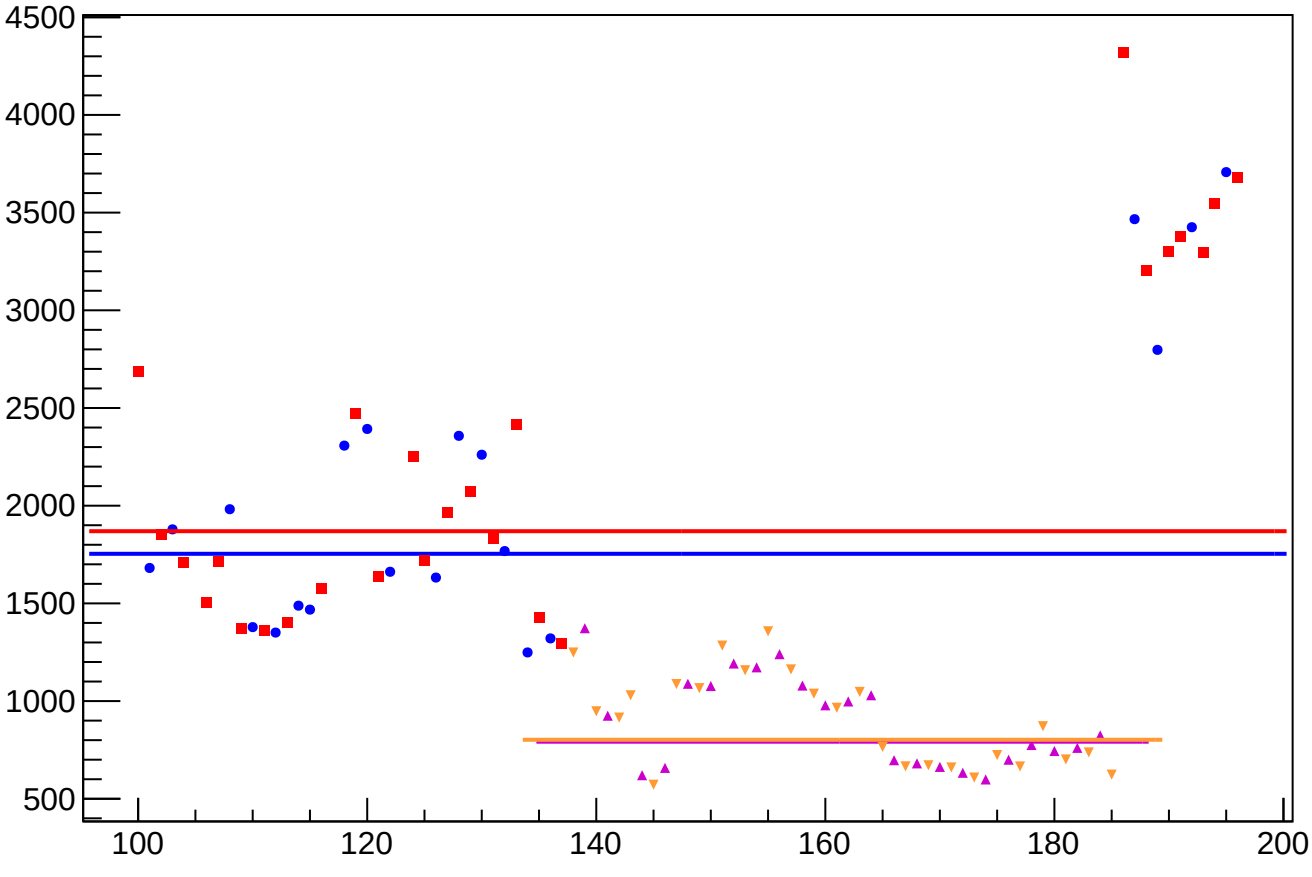
Right: -308.641+/-413.760 $\chi^2$/NDF: 50.6/45

In: 21.561+/-182.329 $\chi^2$/NDF:54.1/42

Out: 657.371+/-179.614 $\chi^2$/NDF:99.6/50

All: 344.234+/-127.956 $\chi^2$/NDF: 159.9/93

# asym_sam3_rms vs Slug, Sign Corrected




Right In: 1753.794+/-0.420 $\chi^2$/NDF: 1901429.3/19

Left Out: 802.014+/-0.134 $\chi^2$/NDF:2396024.4/24

Right Out: 1869.483+/-0.408 $\chi^2$/NDF: 2690338.7/25

Left In: 792.060+/-0.135 $\chi^2$/NDF:2135575.6/22

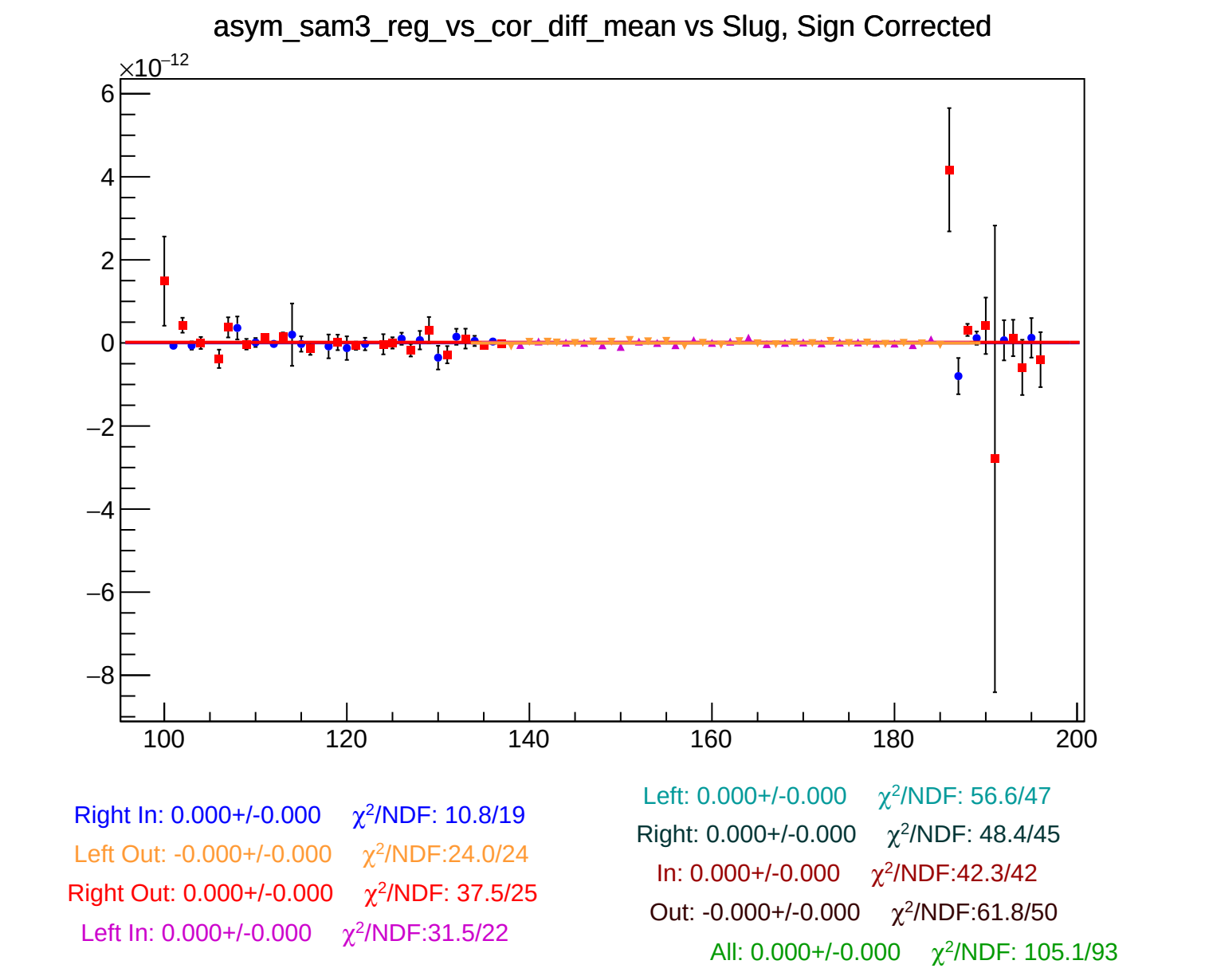
Left: 797.105+/-0.095 $\chi^2$/NDF: 4534335.9/47

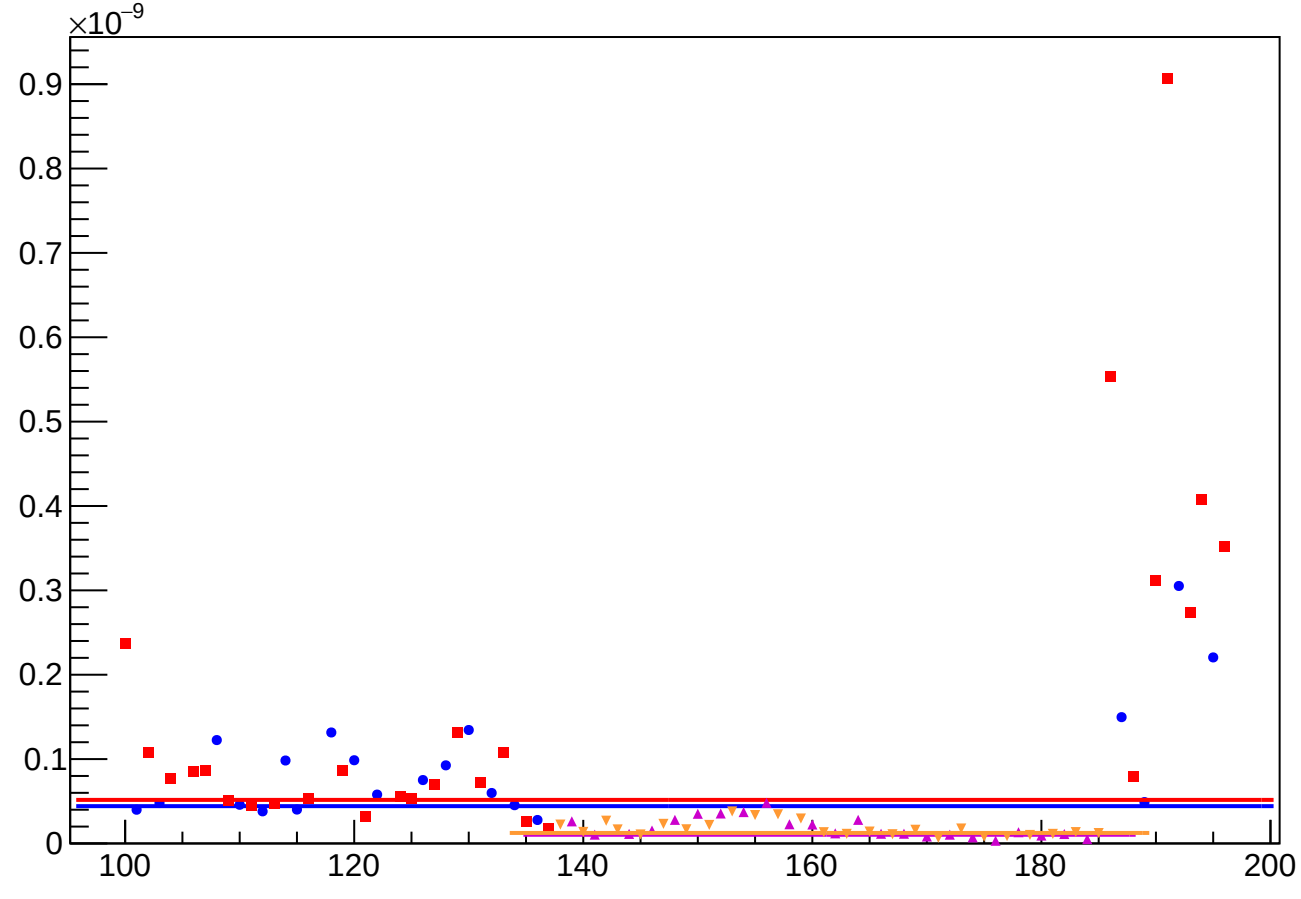
Right: 1813.243+/-0.293 $\chi^2$/NDF: 4630827.2/45

In: 882.847+/-0.129 $\chi^2$/NDF:8794005.3/42

Out: 905.384+/-0.127 $\chi^2$/NDF:11264551.1/50

All: 894.284+/-0.090 $\chi^2$/NDF: 20074063.4/93


asym_sam3_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
−8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 10.8/19
Left Out: -0.000+/-0.000 χ²/NDF:24.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 37.5/25
Left In: 0.000+/-0.000 χ²/NDF:31.5/22
Left: 0.000+/-0.000 χ²/NDF: 56.6/47
Right: 0.000+/-0.000 χ²/NDF: 48.4/45
In: 0.000+/-0.000 χ²/NDF:42.3/42
Out: -0.000+/-0.000 χ²/NDF:61.8/50
All: 0.000+/-0.000 χ²/NDF: 105.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2133054.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2214354.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3595013.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3679061.1/22

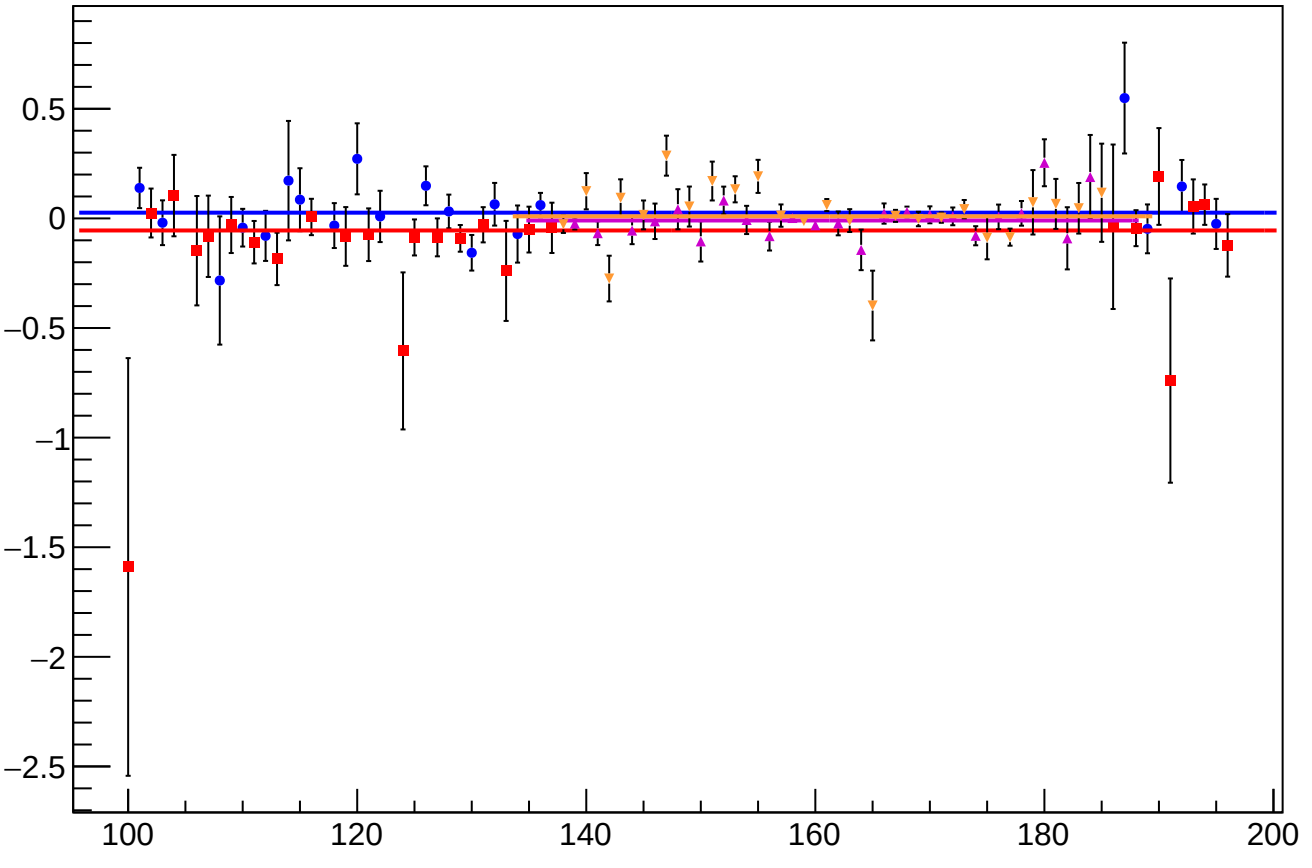
Left: 0.000+/-0.000 $\chi^2$/NDF: 6061170.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 5797525.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:8925674.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9215107.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 18342535.4/93




Right In: 0.026+/-0.023 $\chi^2$/NDF: 21.4/19

Left Out: 0.010+/-0.008 $\chi^2$/NDF:54.6/24

Right Out: -0.055+/-0.022 $\chi^2$/NDF: 16.0/25

Left In: -0.009+/-0.008 $\chi^2$/NDF:25.2/22

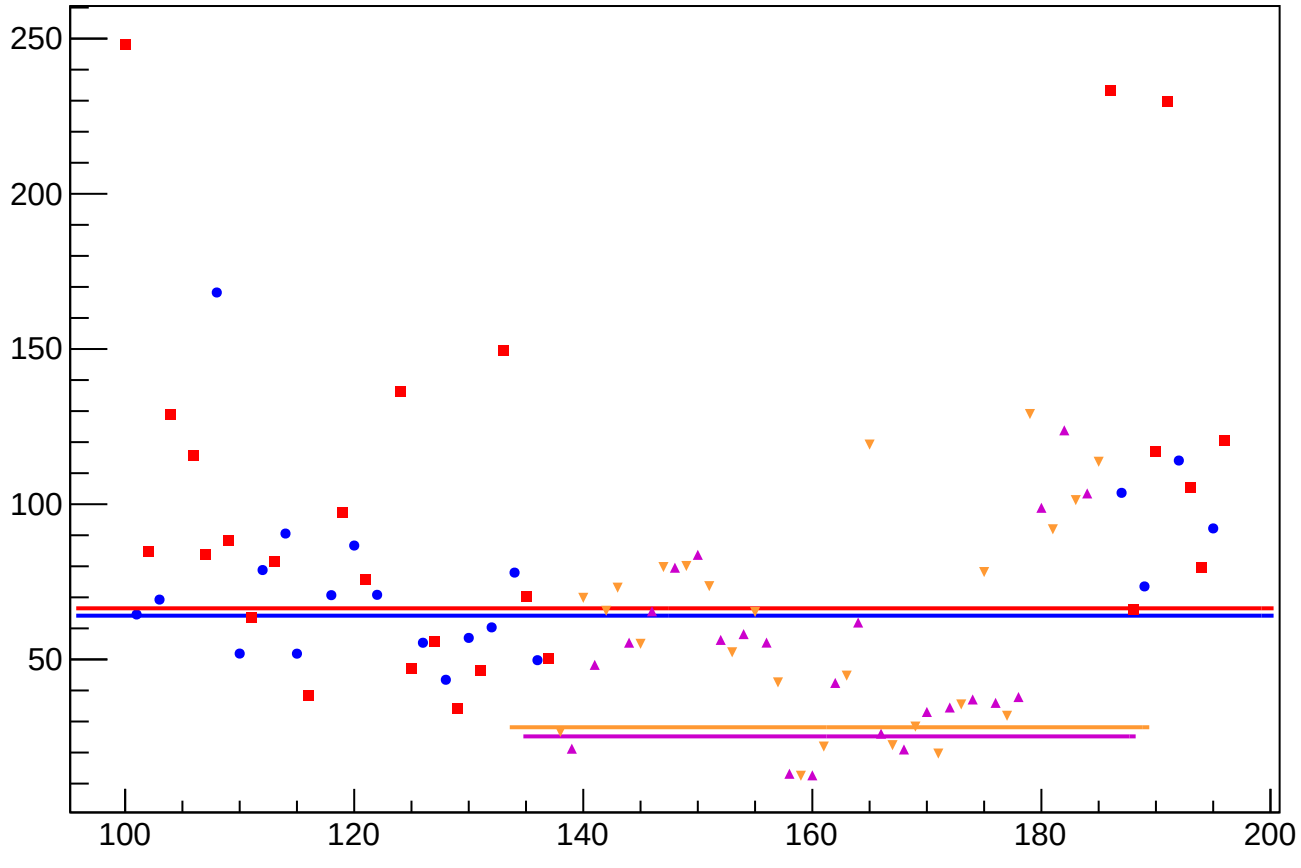
Left: -0.001+/-0.006 $\chi^2$/NDF: 82.5/47

Right: -0.015+/-0.016 $\chi^2$/NDF: 43.7/45

In: -0.006+/-0.007 $\chi^2$/NDF:48.7/42

Out: 0.002+/-0.008 $\chi^2$/NDF:77.9/50

All: -0.002+/-0.005 $\chi^2$/NDF: 127.0/93




Right In: 64.095+/-0.016 $\chi^2$/NDF: 1283139.1/19

Left Out: 28.151+/-0.006 $\chi^2$/NDF:11070747.0/24

Right Out: 66.467+/-0.016 $\chi^2$/NDF: 3370120.0/25

Left In: 25.206+/-0.006 $\chi^2$/NDF:9964049.2/22

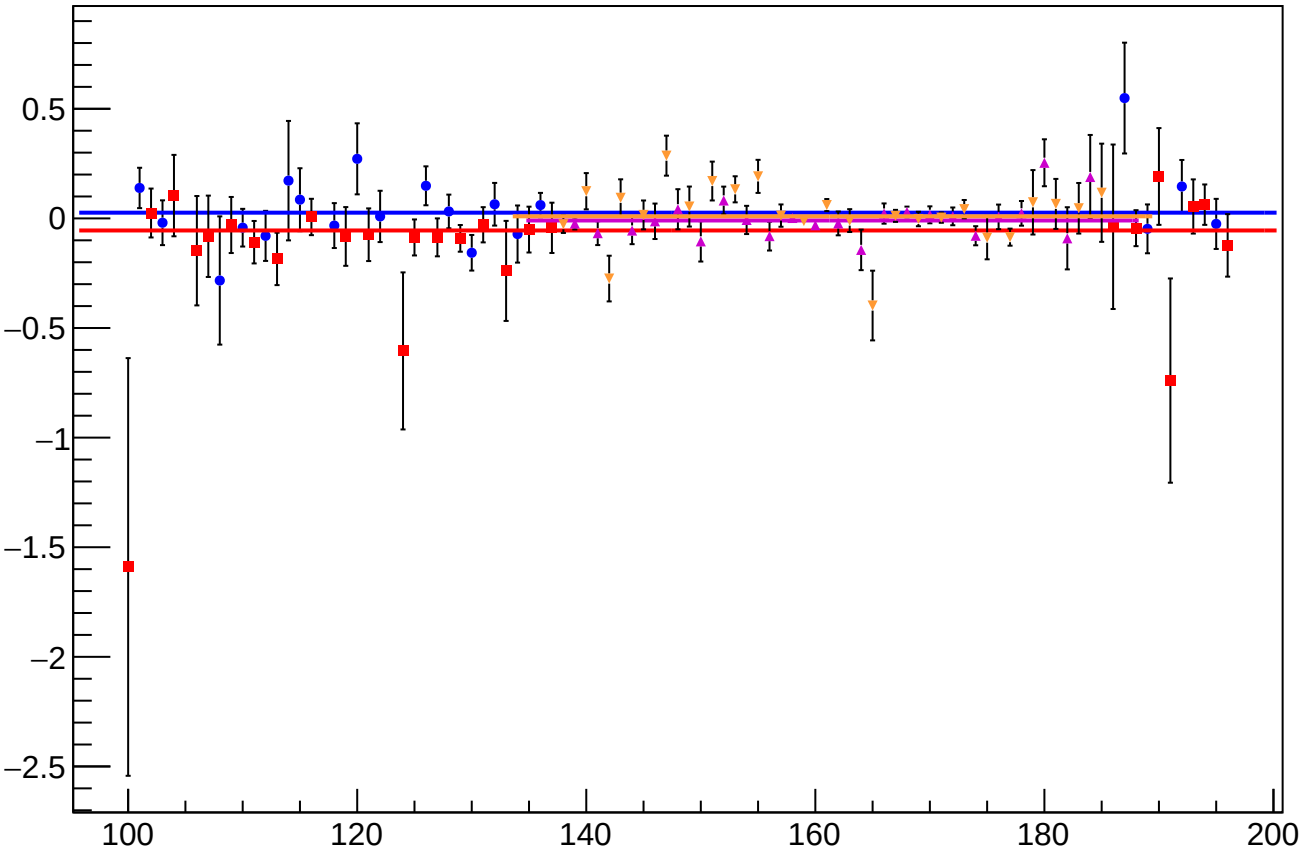
Left: 26.582+/-0.004 $\chi^2$/NDF: 21163962.5/47

Right: 65.310+/-0.011 $\chi^2$/NDF: 4664114.2/45

In: 29.319+/-0.005 $\chi^2$/NDF:16342012.5/42

Out: 32.901+/-0.006 $\chi^2$/NDF:19529350.6/50

All: 31.012+/-0.004 $\chi^2$/NDF: 36087387.6/93




Right In: 0.026+/-0.023 $\chi^2$/NDF: 21.4/19

Left Out: 0.010+/-0.008 $\chi^2$/NDF:54.6/24

Right Out: -0.055+/-0.022 $\chi^2$/NDF: 16.0/25

Left In: -0.009+/-0.008 $\chi^2$/NDF:25.2/22

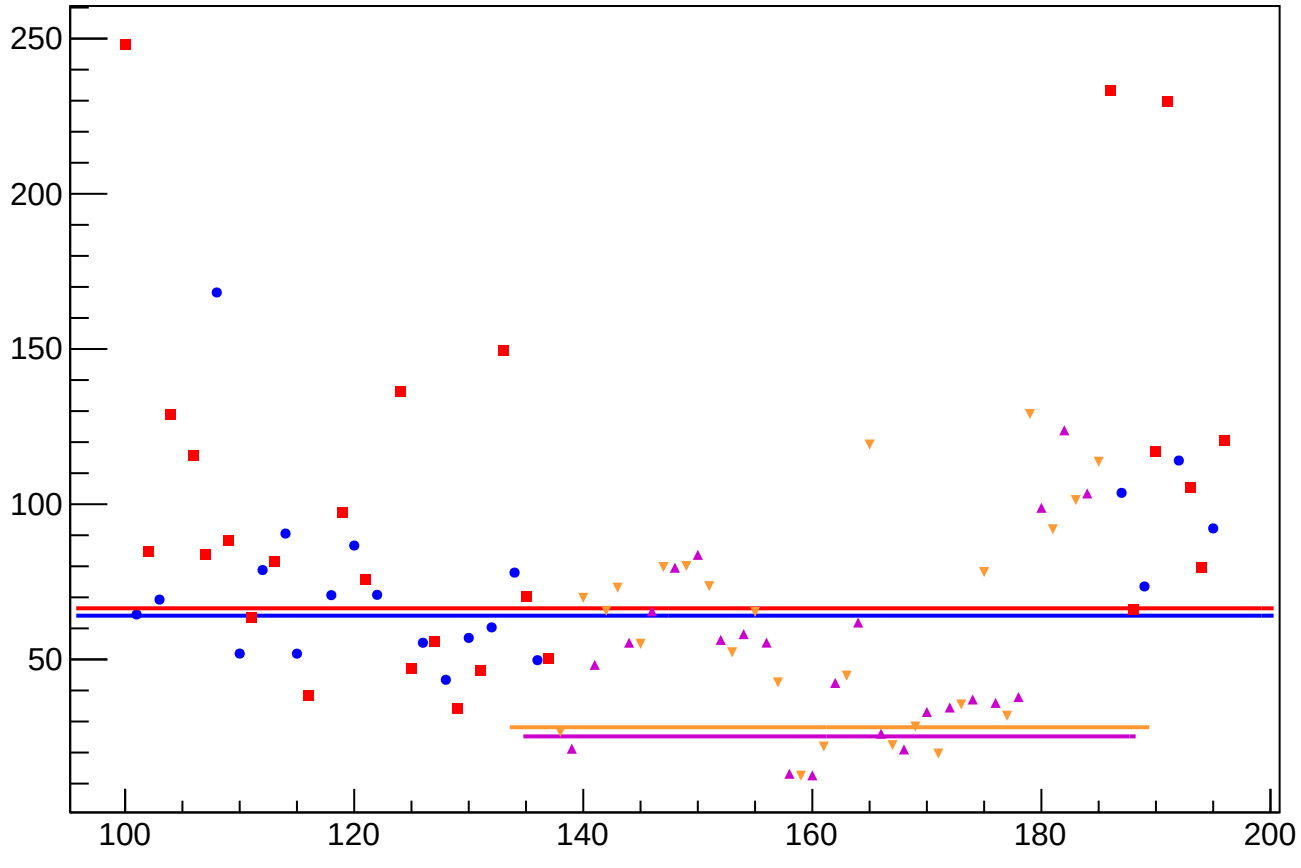
Left: -0.001+/-0.006 $\chi^2$/NDF: 82.5/47

Right: -0.015+/-0.016 $\chi^2$/NDF: 43.7/45

In: -0.006+/-0.007 $\chi^2$/NDF:48.7/42

Out: 0.002+/-0.008 $\chi^2$/NDF:77.9/50

All: -0.002+/-0.005 $\chi^2$/NDF: 127.0/93




Right In: 64.095+/-0.016 $\chi^2$/NDF: 1283139.1/19

Left Out: 28.151+/-0.006 $\chi^2$/NDF:11070747.0/24

Right Out: 66.467+/-0.016 $\chi^2$/NDF: 3370120.0/25

Left In: 25.206+/-0.006 $\chi^2$/NDF:9964049.2/22

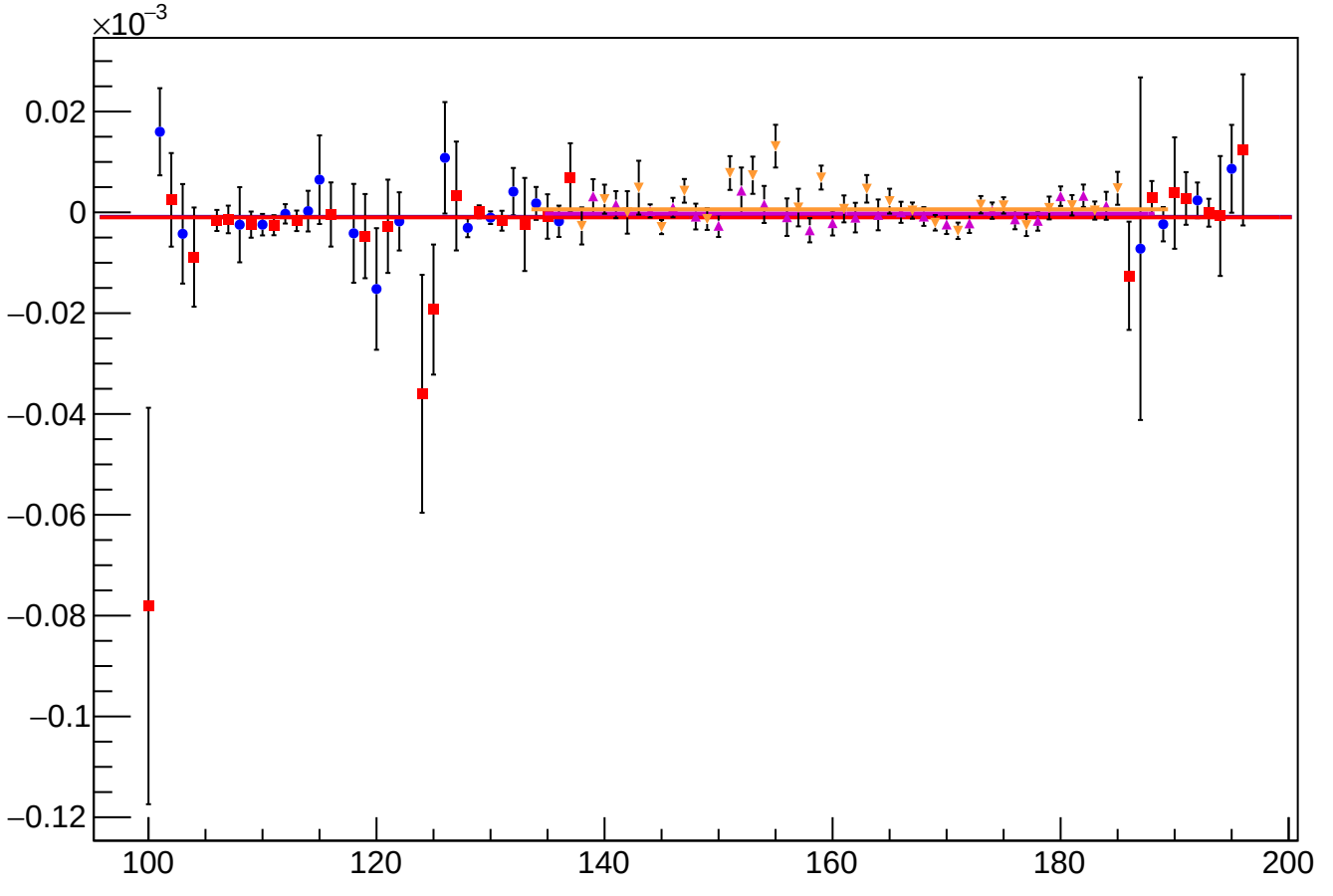
Left: 26.582+/-0.004 $\chi^2$/NDF: 21163962.5/47

Right: 65.310+/-0.011 $\chi^2$/NDF: 4664114.2/45

In: 29.319+/-0.005 $\chi^2$/NDF:16342012.5/42

Out: 32.901+/-0.006 $\chi^2$/NDF:19529350.6/50

All: 31.012+/-0.004 $\chi^2$/NDF: 36087387.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 16.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.5/22

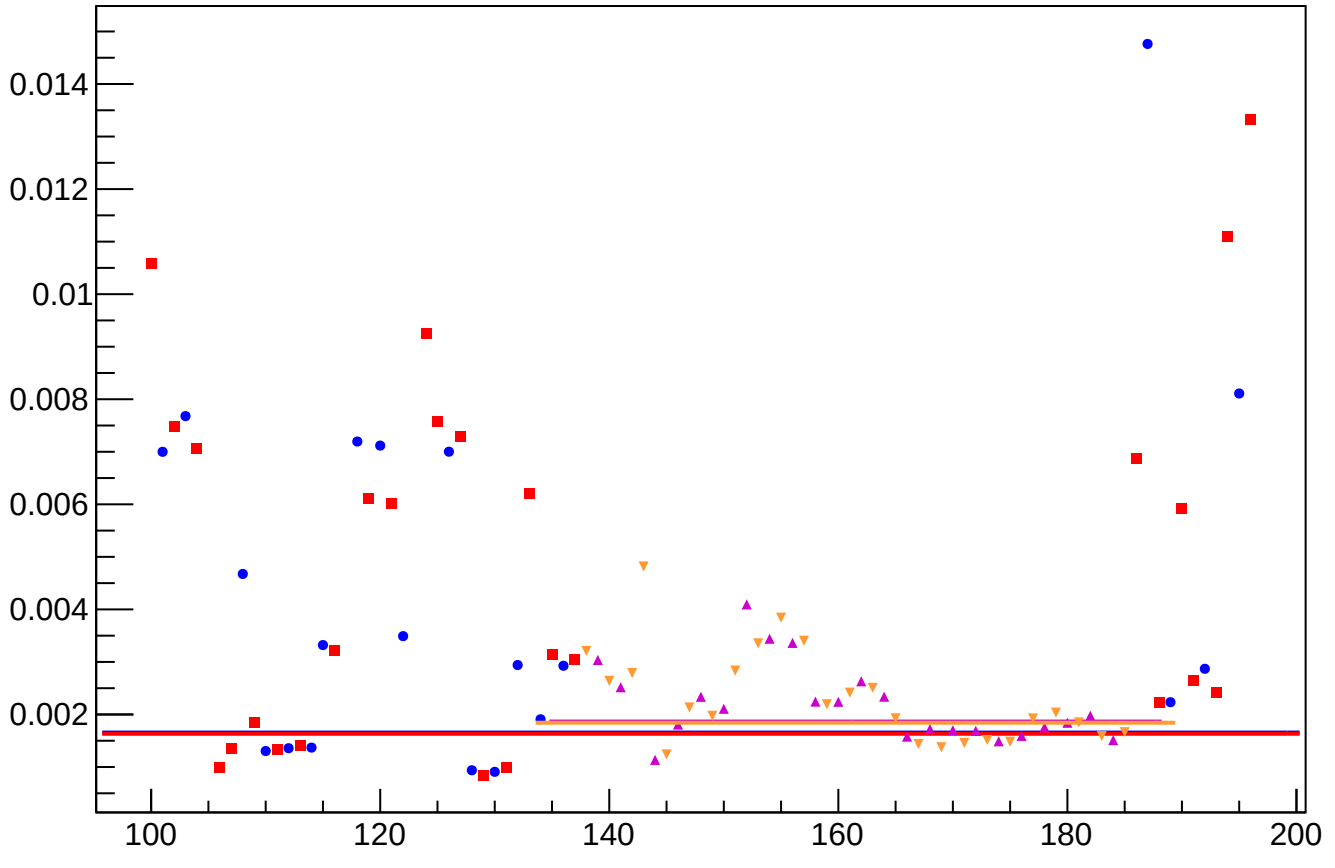
Left: 0.000+/-0.000 $\chi^2$/NDF: 70.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.4/45

In: -0.000+/-0.000 $\chi^2$/NDF:30.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:73.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 104.9/93




Right In: 0.002+/-0.000 $\chi^2$/NDF: 6934919.0/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3783185.4/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 9503370.0/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:2794135.0/22

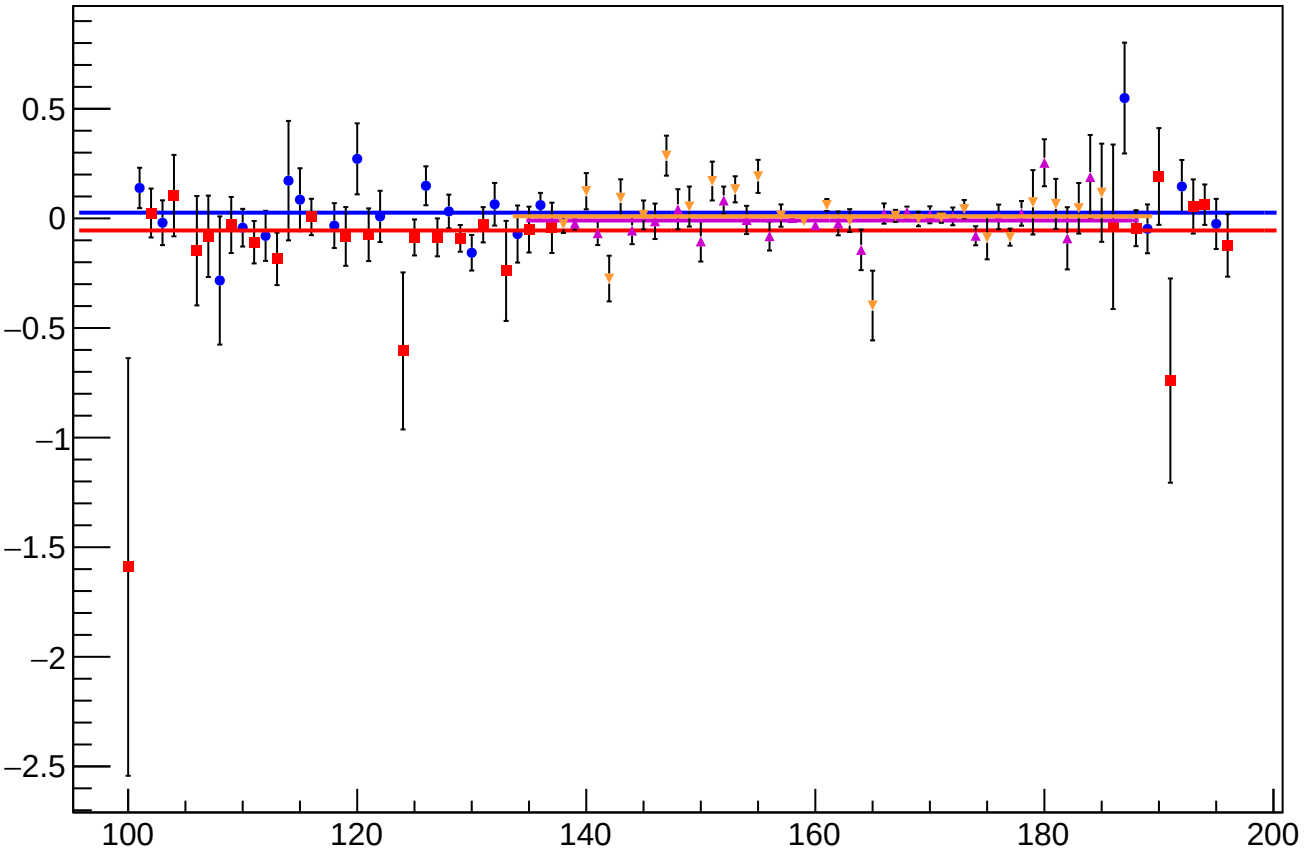
Left: 0.002+/-0.000 $\chi^2$/NDF: 6579632.9/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 16439411.9/45

In: 0.002+/-0.000 $\chi^2$/NDF:9853044.9/42

Out: 0.002+/-0.000 $\chi^2$/NDF:13428044.3/50

All: 0.002+/-0.000 $\chi^2$/NDF: 23285780.1/93




Right In: 0.026+/-0.023 $\chi^2$/NDF: 21.4/19

Left Out: 0.010+/-0.008 $\chi^2$/NDF:54.6/24

Right Out: -0.055+/-0.022 $\chi^2$/NDF: 16.0/25

Left In: -0.009+/-0.008 $\chi^2$/NDF:25.2/22

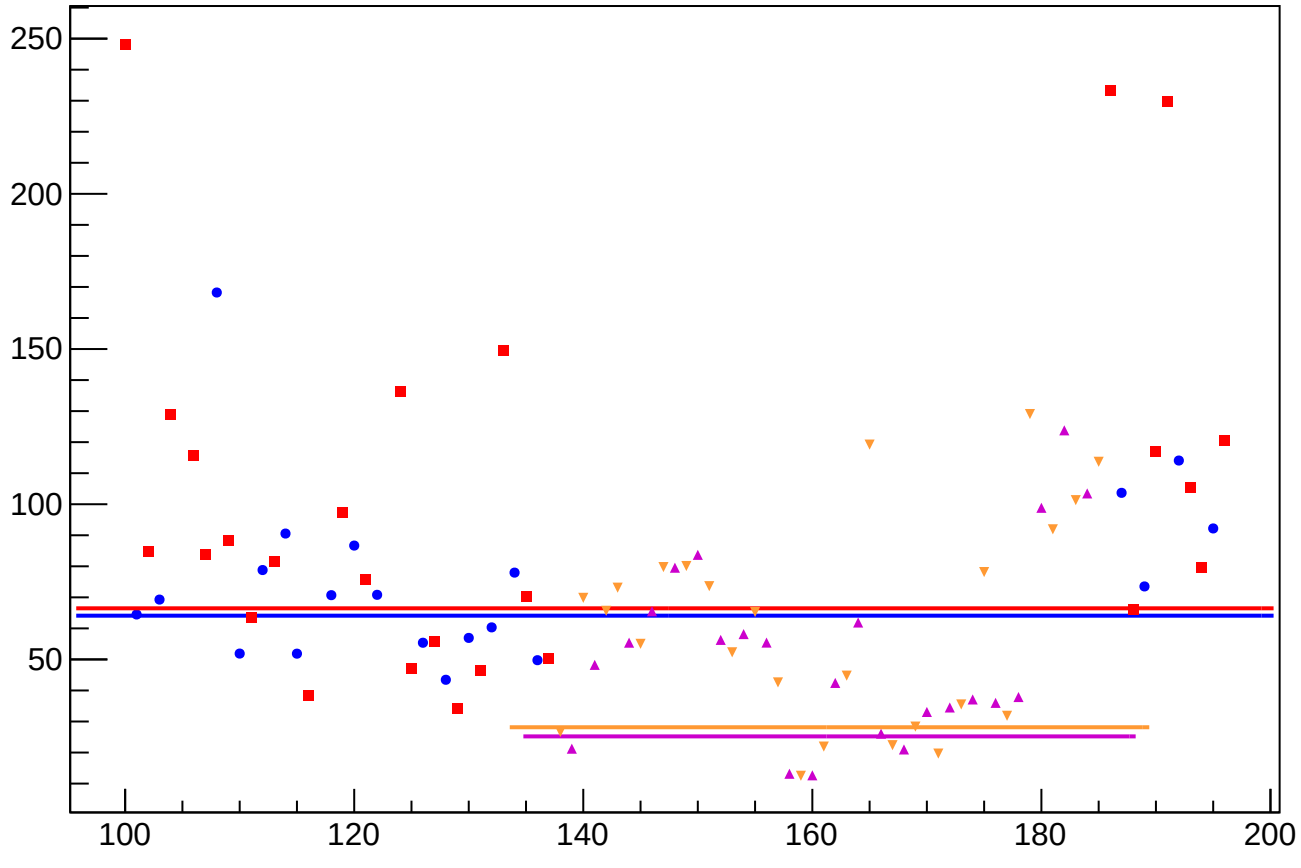
Left: -0.001+/-0.006 $\chi^2$/NDF: 82.5/47

Right: -0.015+/-0.016 $\chi^2$/NDF: 43.7/45

In: -0.006+/-0.007 $\chi^2$/NDF:48.7/42

Out: 0.002+/-0.008 $\chi^2$/NDF:77.9/50

All: -0.002+/-0.005 $\chi^2$/NDF: 127.0/93




Right In: 64.096+/-0.016 $\chi^2$/NDF: 1283135.5/19

Left Out: 28.150+/-0.006 $\chi^2$/NDF:11071818.3/24

Right Out: 66.468+/-0.016 $\chi^2$/NDF: 3370145.3/25

Left In: 25.205+/-0.006 $\chi^2$/NDF:9964548.1/22

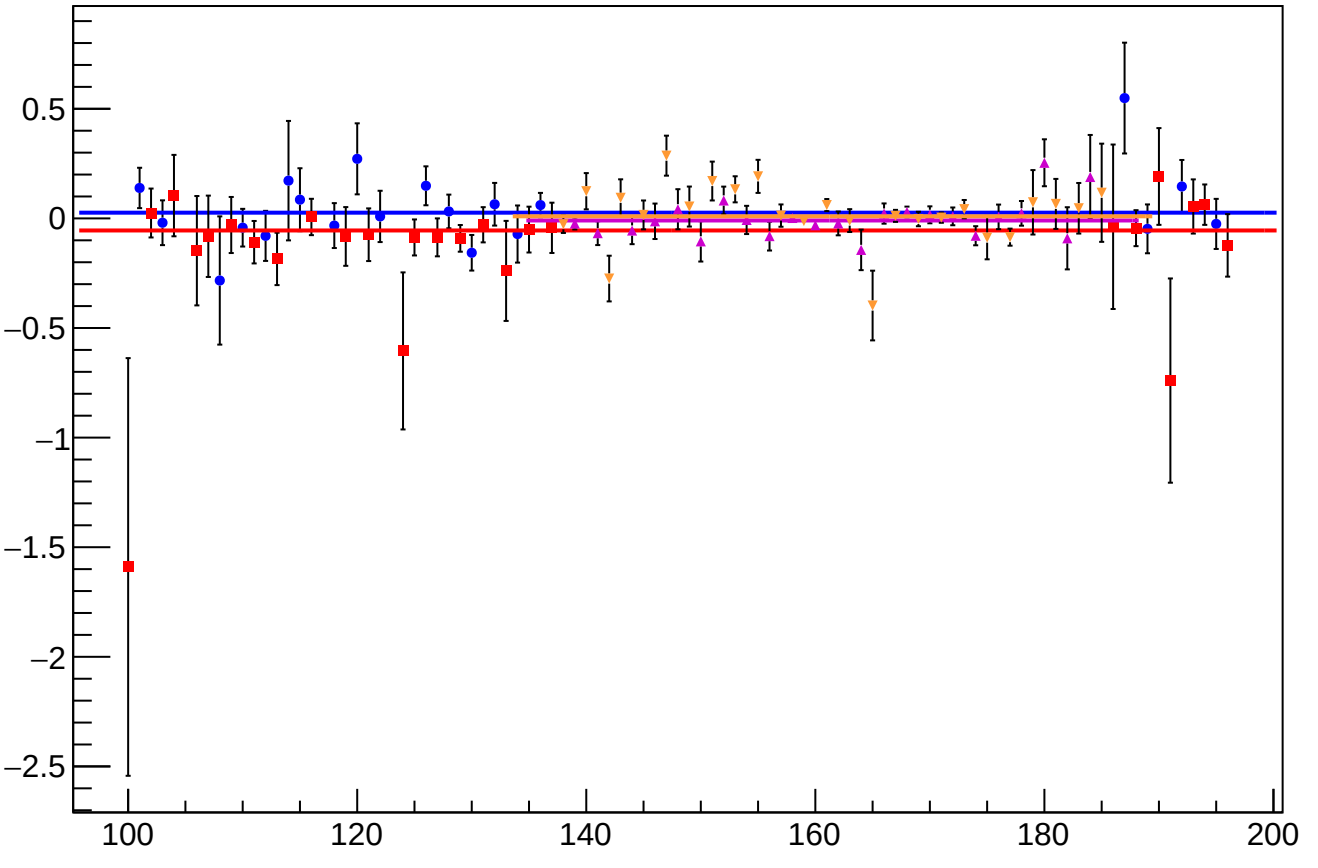
Left: 26.582+/-0.004 $\chi^2$/NDF: 21165461.1/47

Right: 65.311+/-0.011 $\chi^2$/NDF: 4664140.8/45

In: 29.318+/-0.005 $\chi^2$/NDF:16342637.7/42

Out: 32.900+/-0.006 $\chi^2$/NDF:19530949.4/50

All: 31.011+/-0.004 $\chi^2$/NDF: 36089518.4/93




Right In: 0.026+/-0.023 $\chi^2$/NDF: 21.4/19

Left Out: 0.010+/-0.008 $\chi^2$/NDF:54.6/24

Right Out: -0.055+/-0.022 $\chi^2$/NDF: 16.0/25

Left In: -0.009+/-0.008 $\chi^2$/NDF:25.2/22

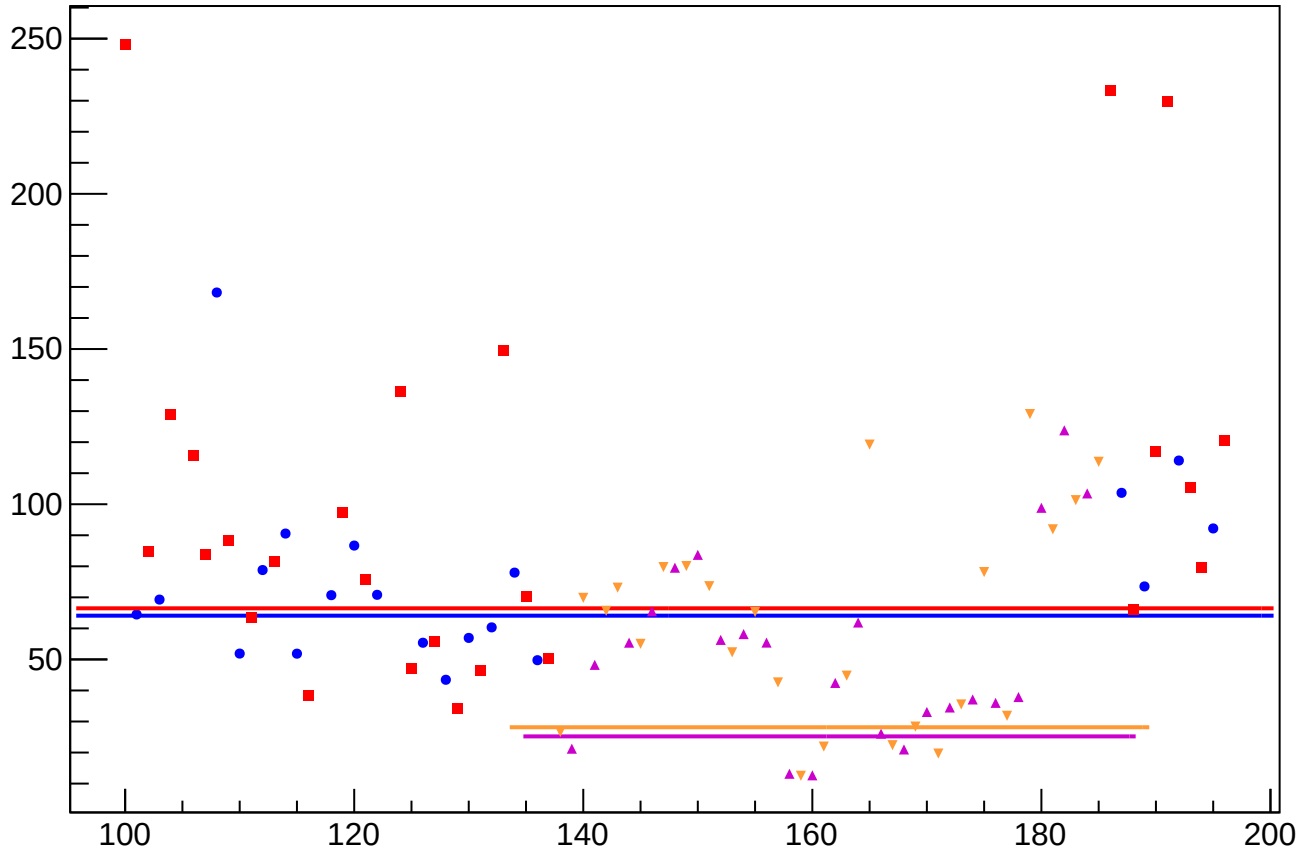
Left: -0.001+/-0.006 $\chi^2$/NDF: 82.5/47

Right: -0.015+/-0.016 $\chi^2$/NDF: 43.7/45

In: -0.006+/-0.007 $\chi^2$/NDF:48.7/42

Out: 0.002+/-0.008 $\chi^2$/NDF:77.9/50

All: -0.002+/-0.005 $\chi^2$/NDF: 127.0/93




Right In: 64.096+/-0.016 $\chi^2$/NDF: 1283135.5/19

Left Out: 28.150+/-0.006 $\chi^2$/NDF:11071818.3/24

Right Out: 66.468+/-0.016 $\chi^2$/NDF: 3370145.3/25

Left In: 25.205+/-0.006 $\chi^2$/NDF:9964548.1/22

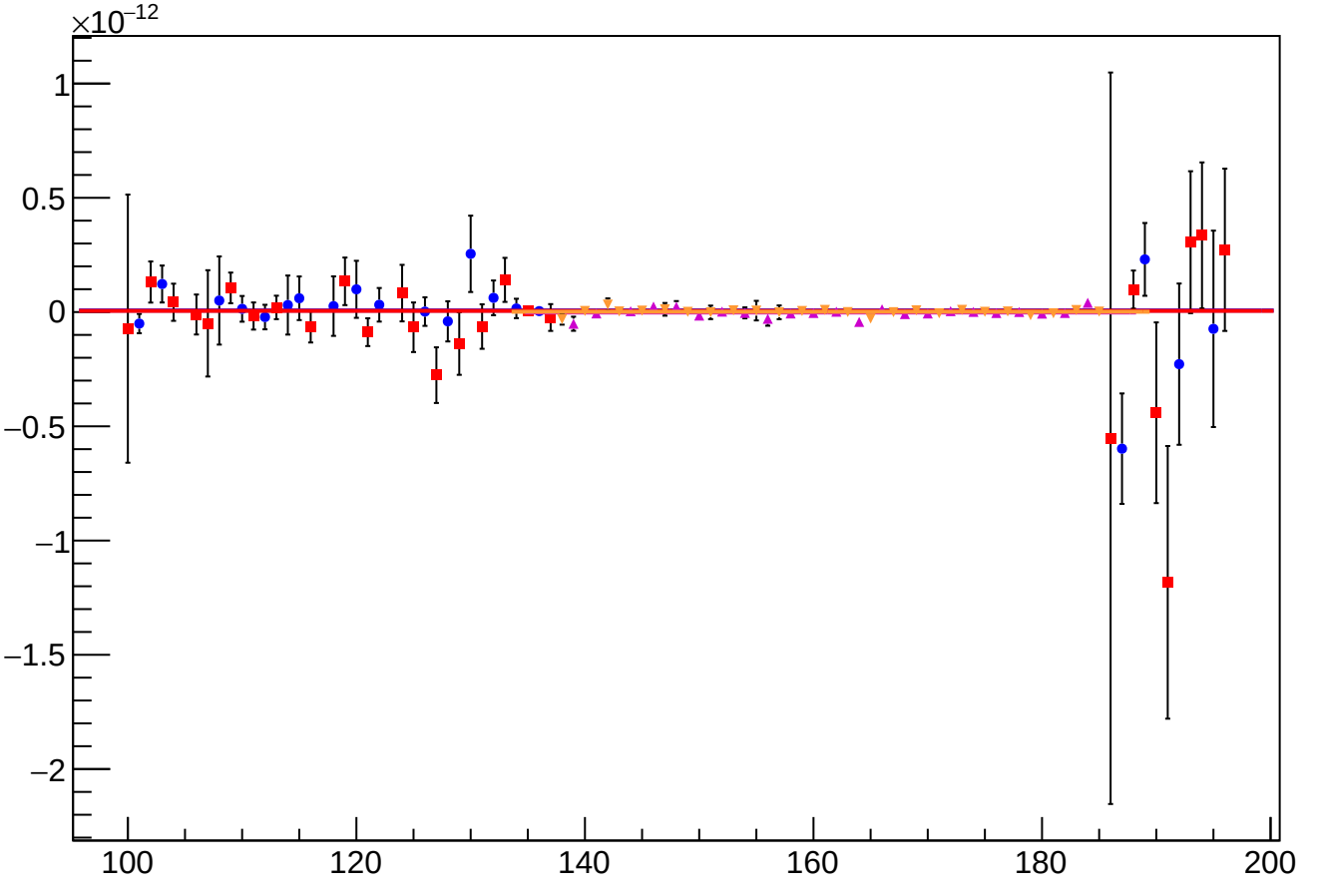
Left: 26.582+/-0.004 $\chi^2$/NDF: 21165461.1/47

Right: 65.311+/-0.011 $\chi^2$/NDF: 4664140.8/45

In: 29.318+/-0.005 $\chi^2$/NDF:16342637.7/42

Out: 32.900+/-0.006 $\chi^2$/NDF:19530949.4/50

All: 31.011+/-0.004 $\chi^2$/NDF: 36089518.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:11.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 28.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.8/22

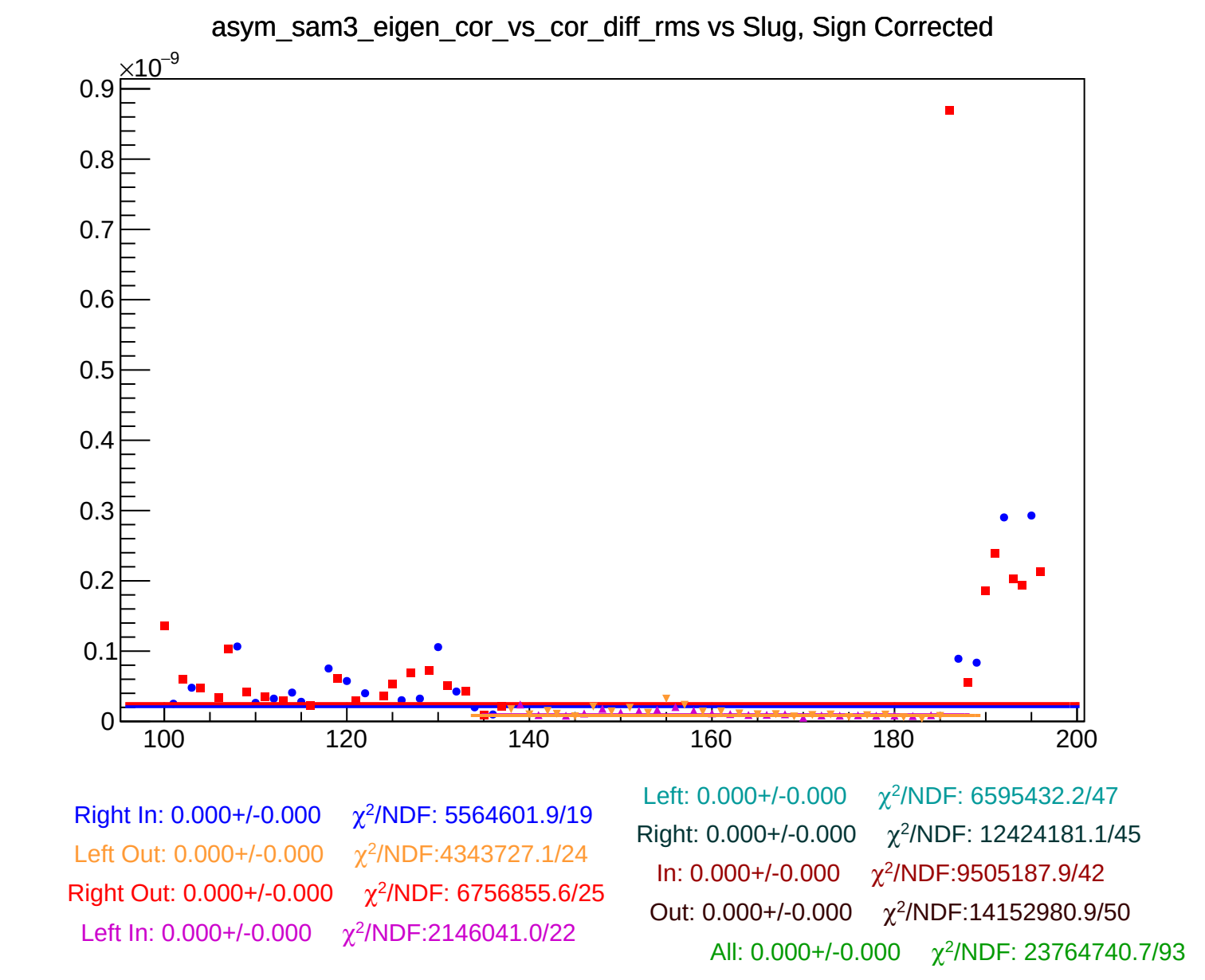
Left: -0.000+/-0.000 $\chi^2$/NDF: 32.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.0/45

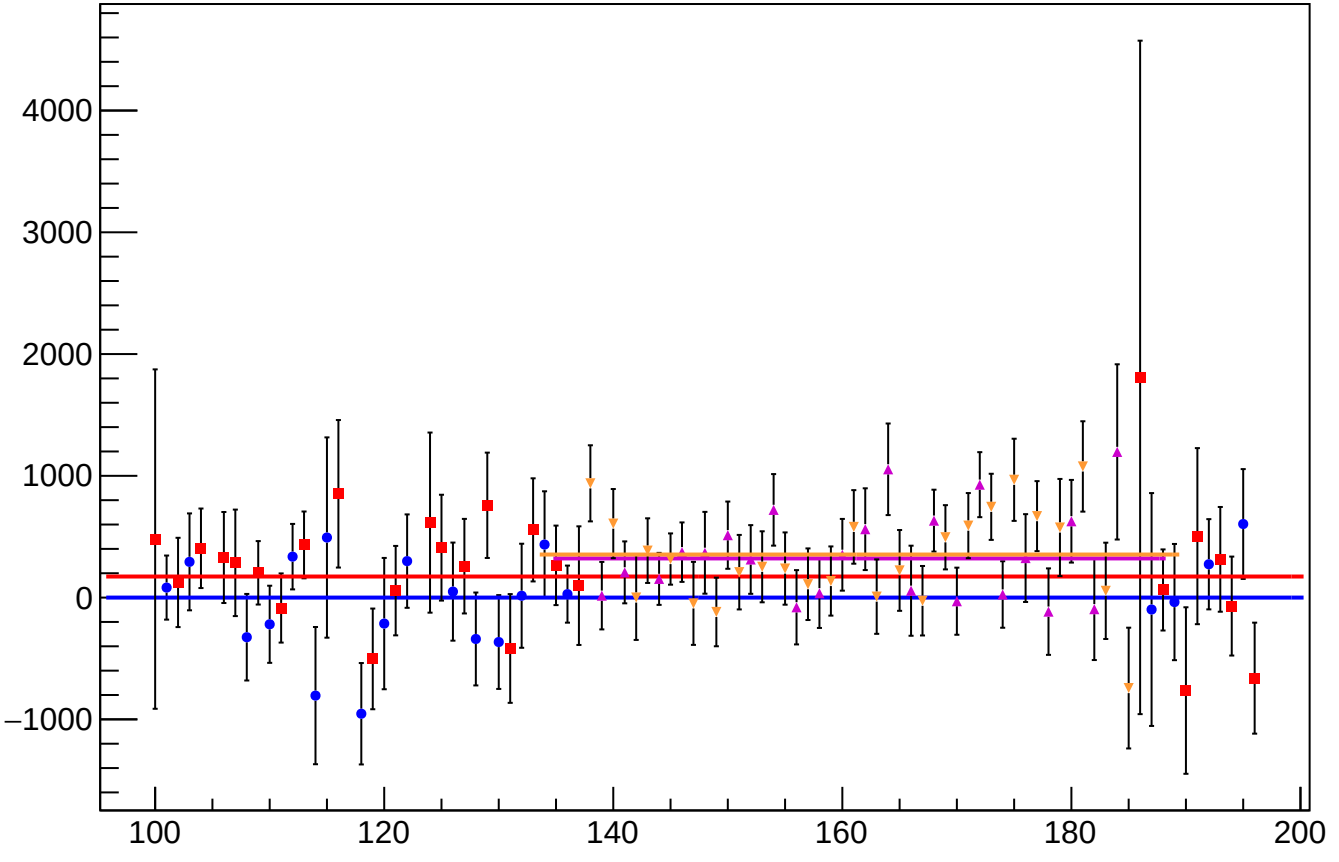
In: -0.000+/-0.000 $\chi^2$/NDF:38.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:40.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 79.2/93


asym_sam3_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5564601.9/19
Left Out: 0.000+/-0.000 χ²/NDF:4343727.1/24
Right Out: 0.000+/-0.000 χ²/NDF: 6756855.6/25
Left In: 0.000+/-0.000 χ²/NDF:2146041.0/22
Left: 0.000+/-0.000 χ²/NDF: 6595432.2/47
Right: 0.000+/-0.000 χ²/NDF: 12424181.1/45
In: 0.000+/-0.000 χ²/NDF:9505187.9/42
Out: 0.000+/-0.000 χ²/NDF:14152980.9/50
All: 0.000+/-0.000 χ²/NDF: 23764740.7/93

# reg_asym_sam4_mean vs Slug, Sign Corrected




Right In: 0.067+/-84.678 $\chi^2$/NDF: 17.0/19

Left Out: 353.617+/-60.149 $\chi^2$/NDF:32.3/24

Right Out: 173.043+/-79.336 $\chi^2$/NDF: 18.2/25

Left In: 321.510+/-62.113 $\chi^2$/NDF:26.2/22

Left: 338.079+/-43.209 $\chi^2$/NDF: 58.7/47

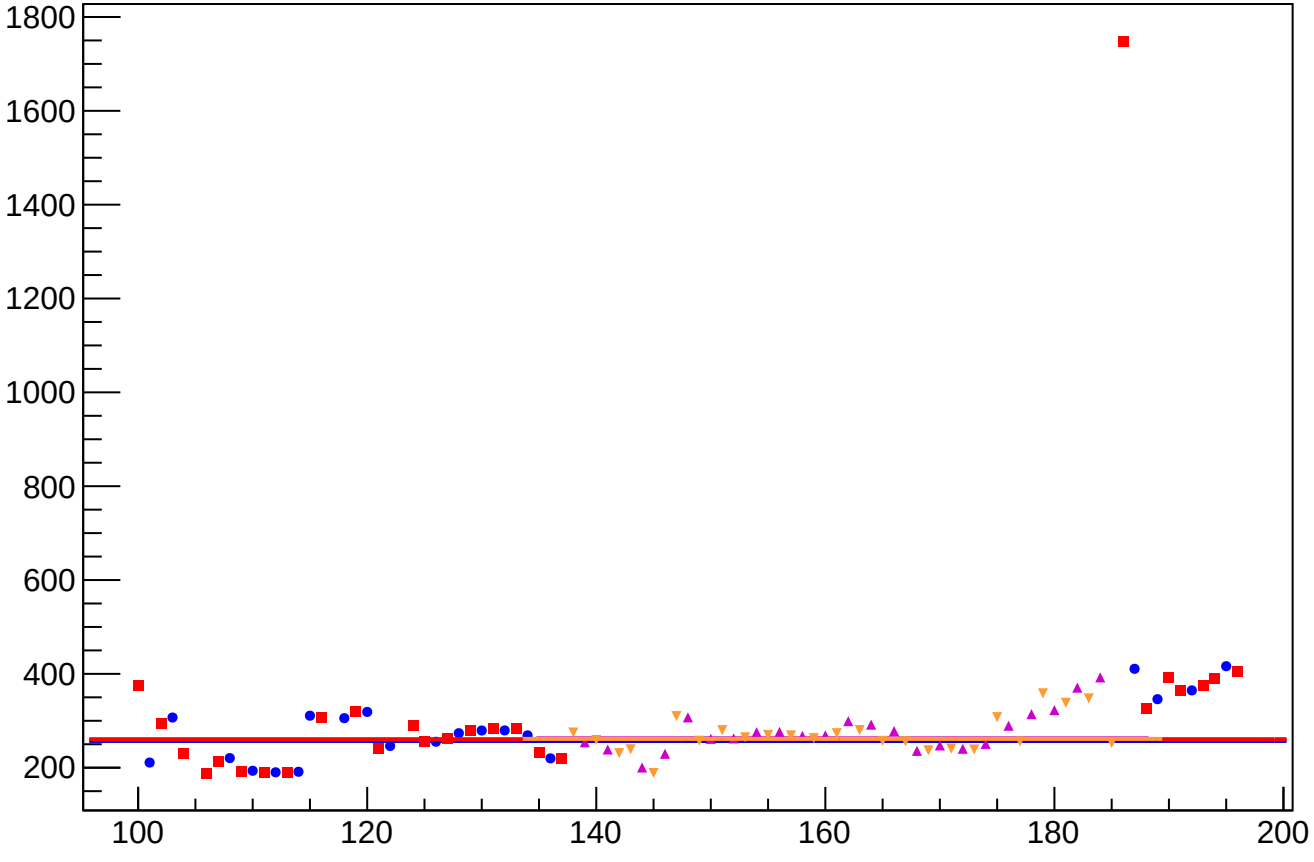
Right: 92.183+/-57.895 $\chi^2$/NDF: 37.4/45

In: 209.060+/-50.084 $\chi^2$/NDF:52.6/42

Out: 287.708+/-47.931 $\chi^2$/NDF:53.8/50

All: 250.111+/-34.628 $\chi^2$/NDF: 107.7/93

# reg_asym_sam4_rms vs Slug, Sign Corrected




Right In: 256.934+/-0.060 $\chi^2$/NDF: 1016411.4/19

Left Out: 261.470+/-0.043 $\chi^2$/NDF:715467.9/24

Right Out: 260.783+/-0.056 $\chi^2$/NDF: 1969187.1/25

Left In: 262.616+/-0.044 $\chi^2$/NDF:670646.3/22

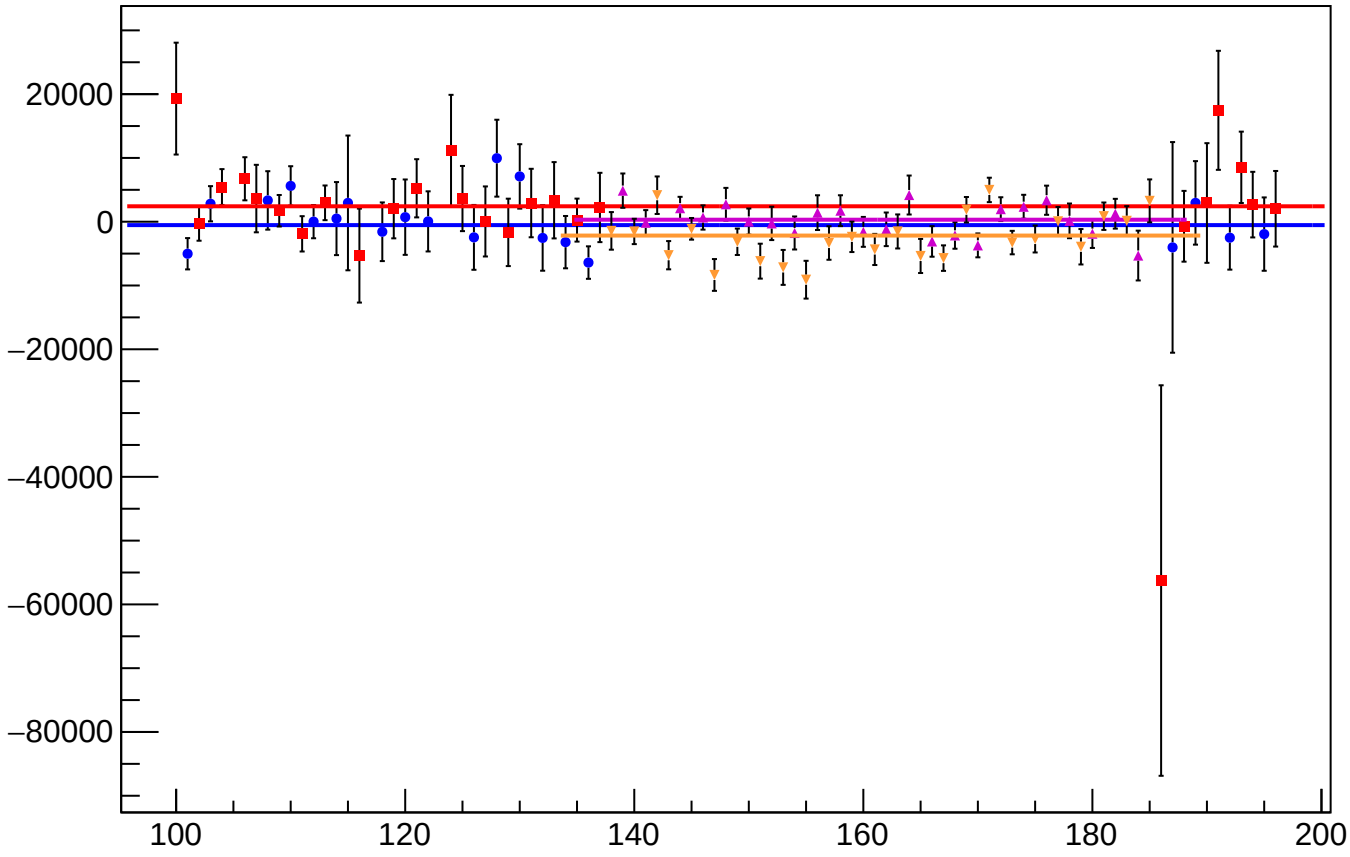
Left: 262.024+/-0.031 $\chi^2$/NDF: 1386465.9/47

Right: 258.984+/-0.041 $\chi^2$/NDF: 2987799.8/45

In: 260.628+/-0.035 $\chi^2$/NDF:1692913.6/42

Out: 261.219+/-0.034 $\chi^2$/NDF:2684750.0/50

All: 260.937+/-0.024 $\chi^2$/NDF: 4377808.9/93




Right In: -533.226+/-908.682 $\chi^2$/NDF: 21.7/19

Left Out: -2171.840+/-461.649 $\chi^2$/NDF:55.5/24

Right Out: 2418.459+/-843.541 $\chi^2$/NDF: 21.7/25

Left In: 313.739+/-474.086 $\chi^2$/NDF:23.7/22

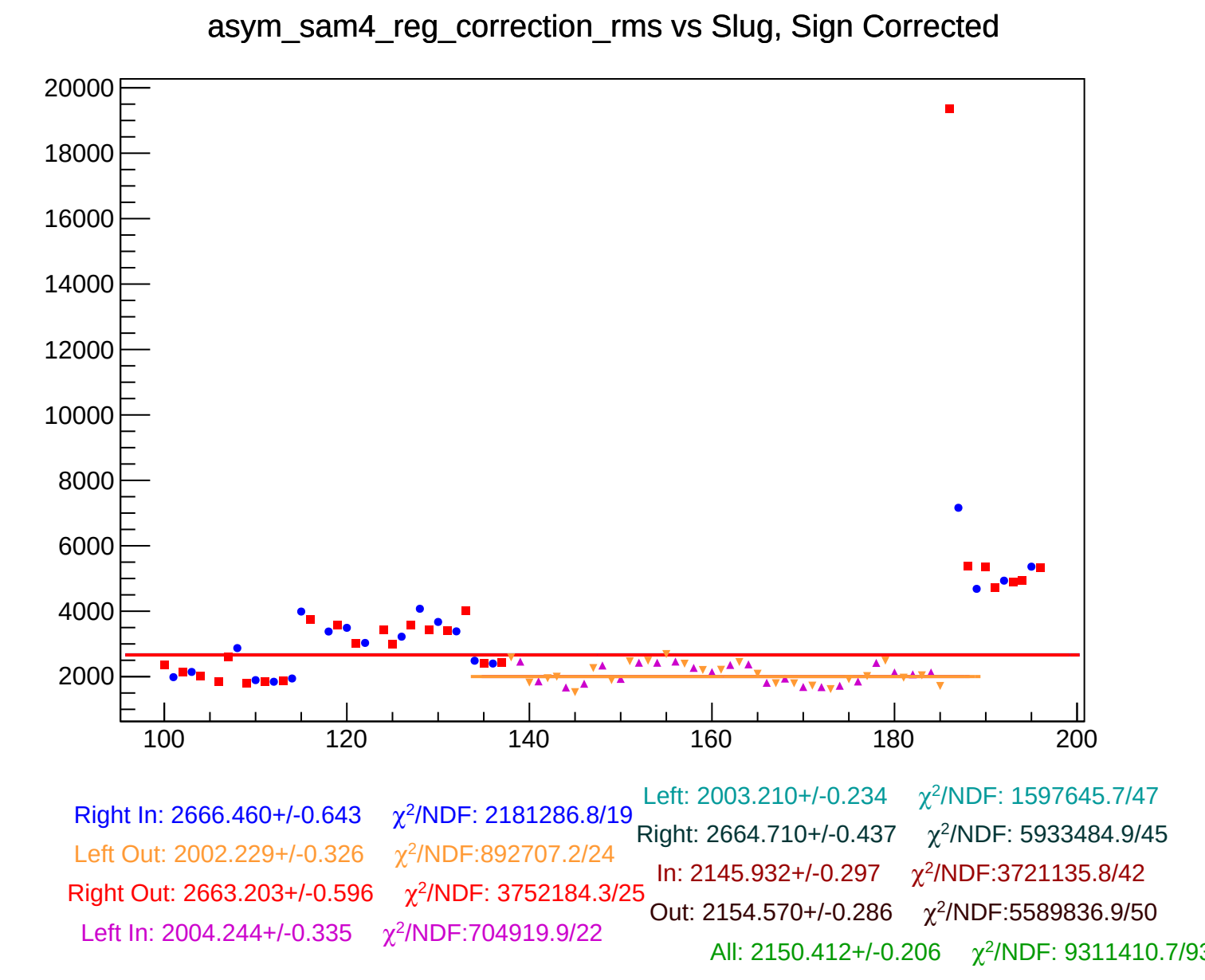
Left: -962.081+/-330.744 $\chi^2$/NDF: 93.3/47

Right: 1052.198+/-618.221 $\chi^2$/NDF: 49.1/45

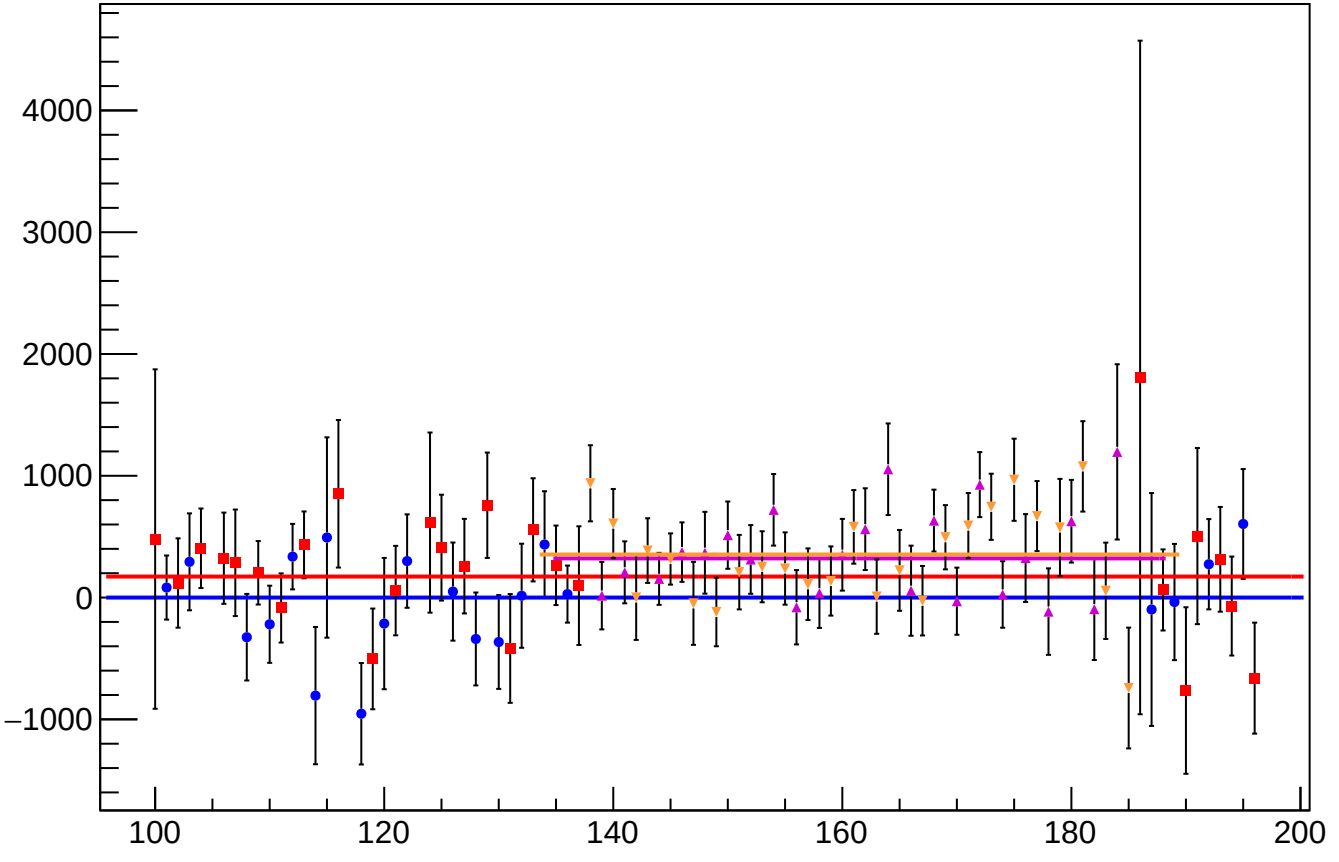
In: 132.521+/-420.319 $\chi^2$/NDF:46.0/42

Out: -1113.872+/-404.969 $\chi^2$/NDF:100.0/50

All: -513.850+/-291.632 $\chi^2$/NDF: 150.6/93


asym_sam4_reg_correction_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2666.460+/-0.643 χ²/NDF: 2181286.8/19
Left Out: 2002.229+/-0.326 χ²/NDF:892707.2/24
Right Out: 2663.203+/-0.596 χ²/NDF: 3752184.3/25
Left In: 2004.244+/-0.335 χ²/NDF:704919.9/22
Left: 2003.210+/-0.234 χ²/NDF: 1597645.7/47
Right: 2664.710+/-0.437 χ²/NDF: 5933484.9/45
In: 2145.932+/-0.297 χ²/NDF:3721135.8/42
Out: 2154.570+/-0.286 χ²/NDF:5589836.9/50
All: 2150.412+/-0.206 χ²/NDF: 9311410.7/93

# cor_asym_sam4_mean vs Slug, Sign Corrected




Right In: 0.052+/-84.678 $\chi^2$/NDF: 17.0/19

Left Out: 353.640+/-60.149 $\chi^2$/NDF:32.3/24

Right Out: 172.497+/-79.346 $\chi^2$/NDF: 18.1/25

Left In: 321.514+/-62.113 $\chi^2$/NDF:26.2/22

Left: 338.093+/-43.209 $\chi^2$/NDF: 58.7/47

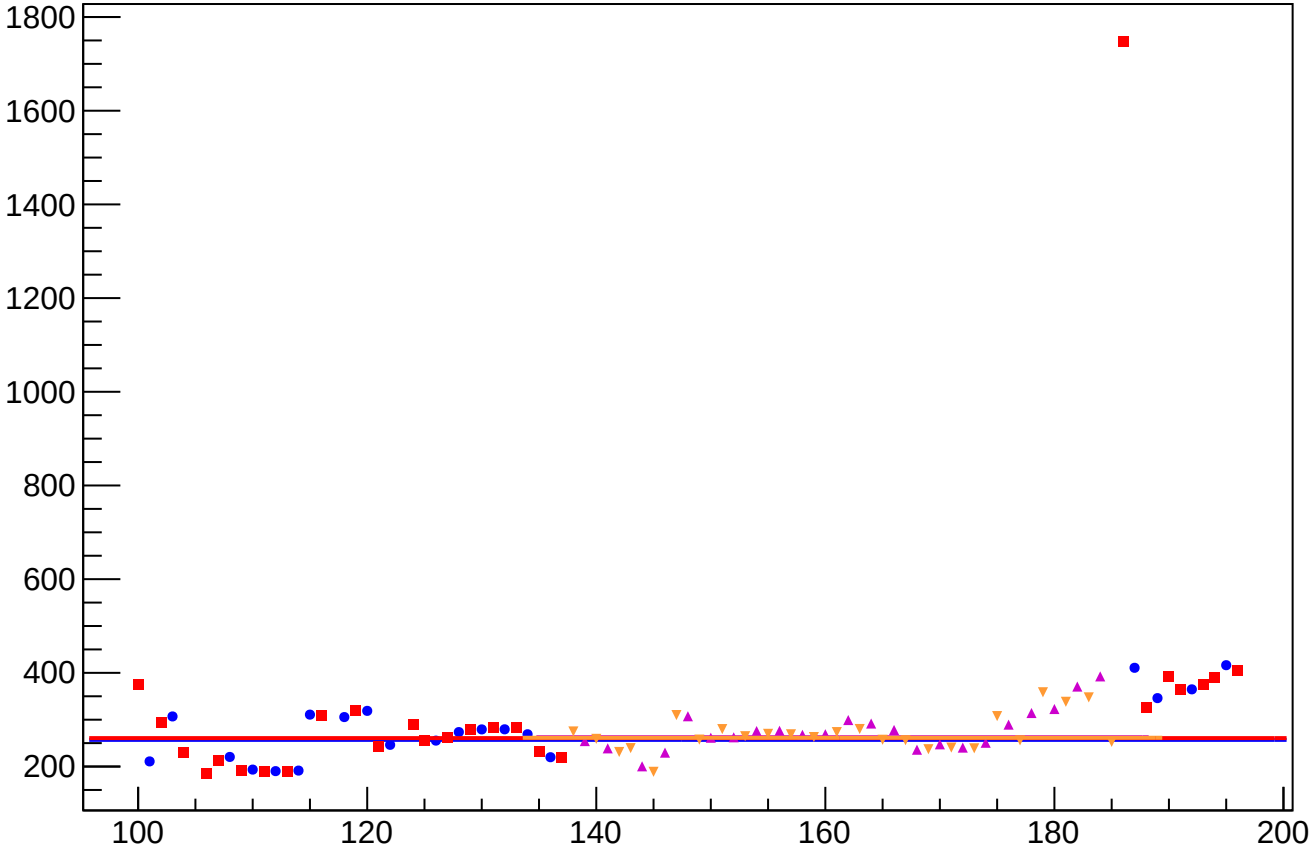
Right: 91.875+/-57.899 $\chi^2$/NDF: 37.4/45

In: 209.058+/-50.084 $\chi^2$/NDF:52.6/42

Out: 287.534+/-47.933 $\chi^2$/NDF:53.8/50

All: 250.017+/-34.629 $\chi^2$/NDF: 107.7/93

# cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 256.934+/-0.060 $\chi^2$/NDF: 1016413.3/19

Left Out: 261.470+/-0.043 $\chi^2$/NDF:715467.9/24

Right Out: 260.691+/-0.056 $\chi^2$/NDF: 1974290.0/25

Left In: 262.616+/-0.044 $\chi^2$/NDF:670646.4/22

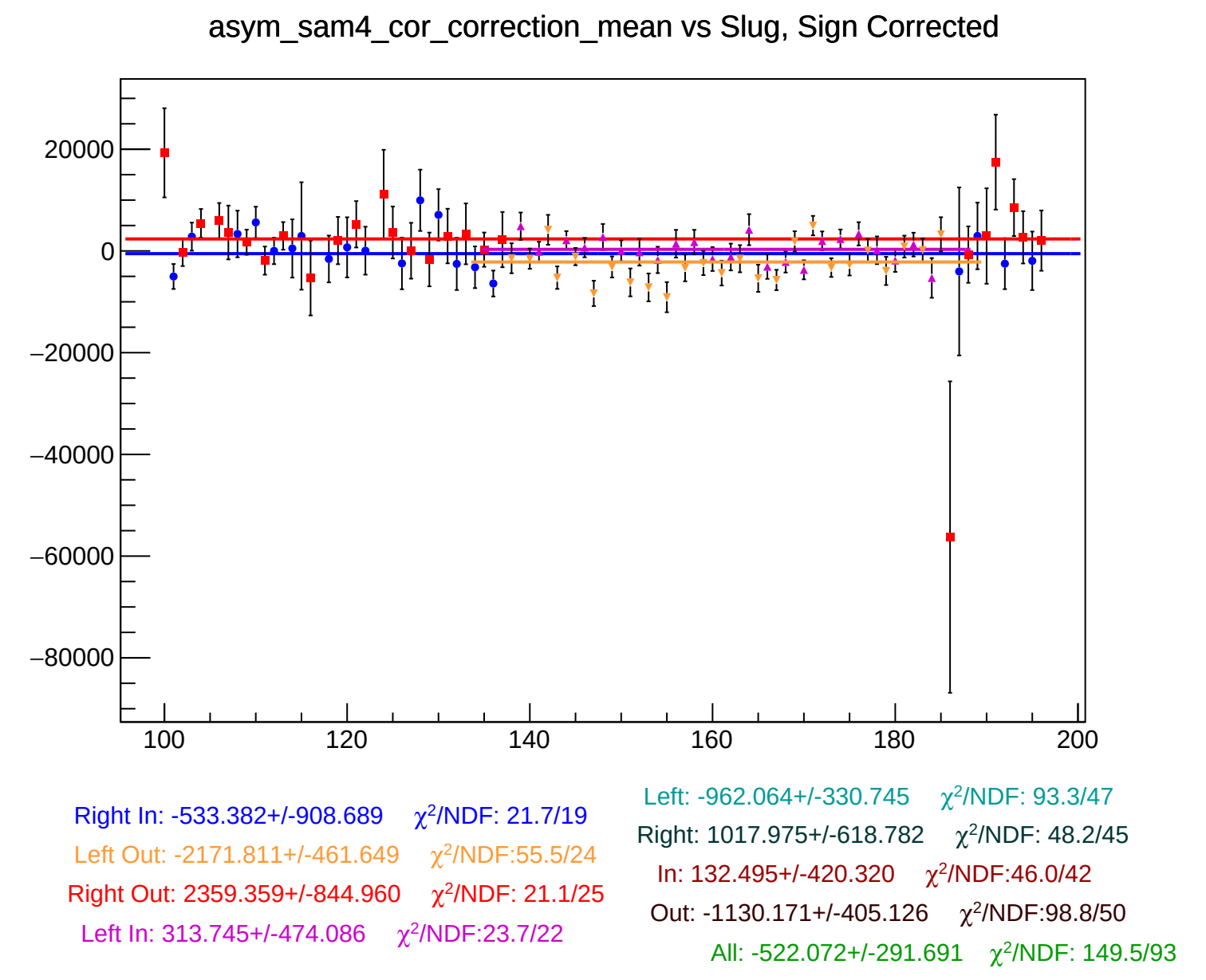
Left: 262.024+/-0.031 $\chi^2$/NDF: 1386465.9/47

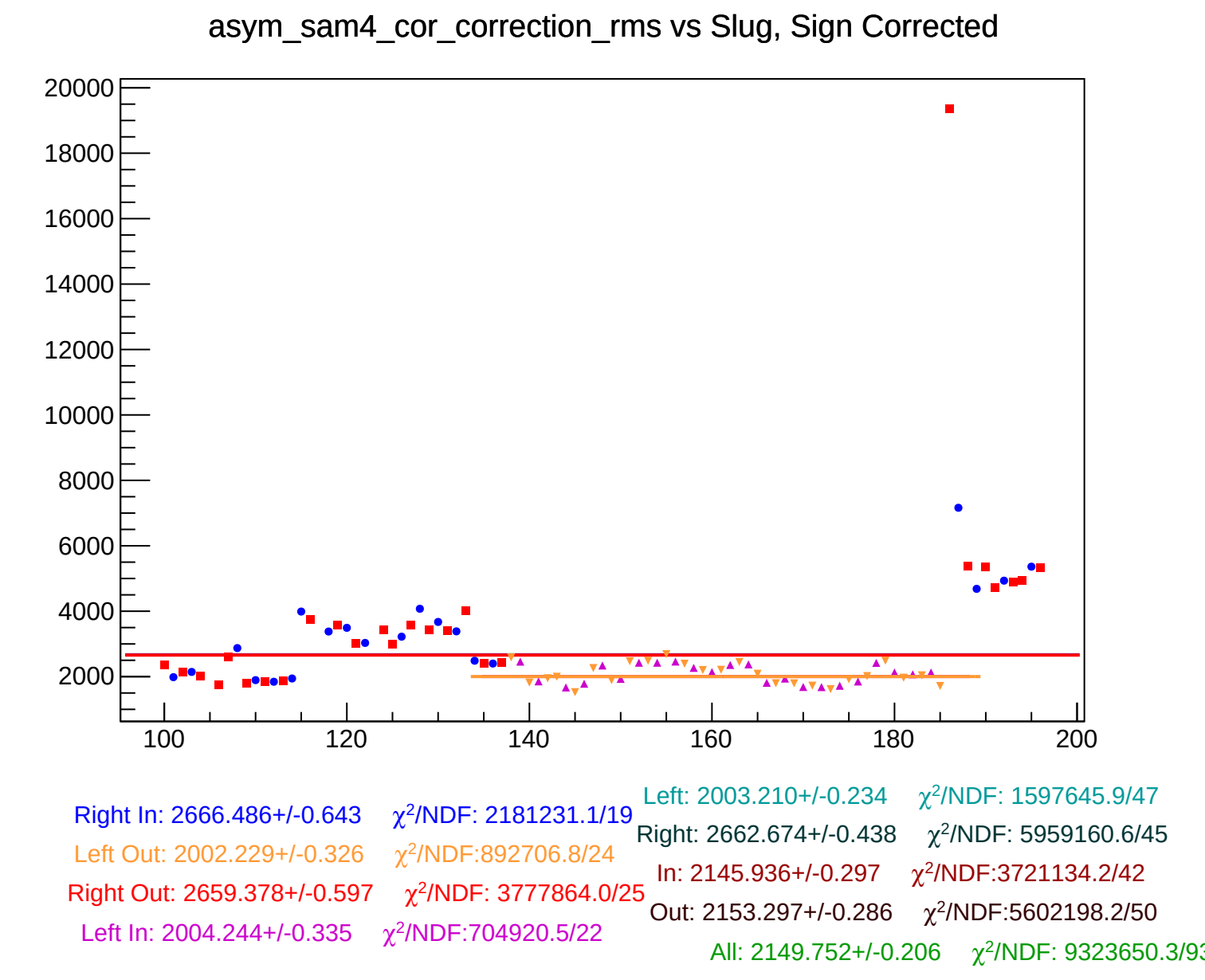
Right: 258.934+/-0.041 $\chi^2$/NDF: 2992799.8/45

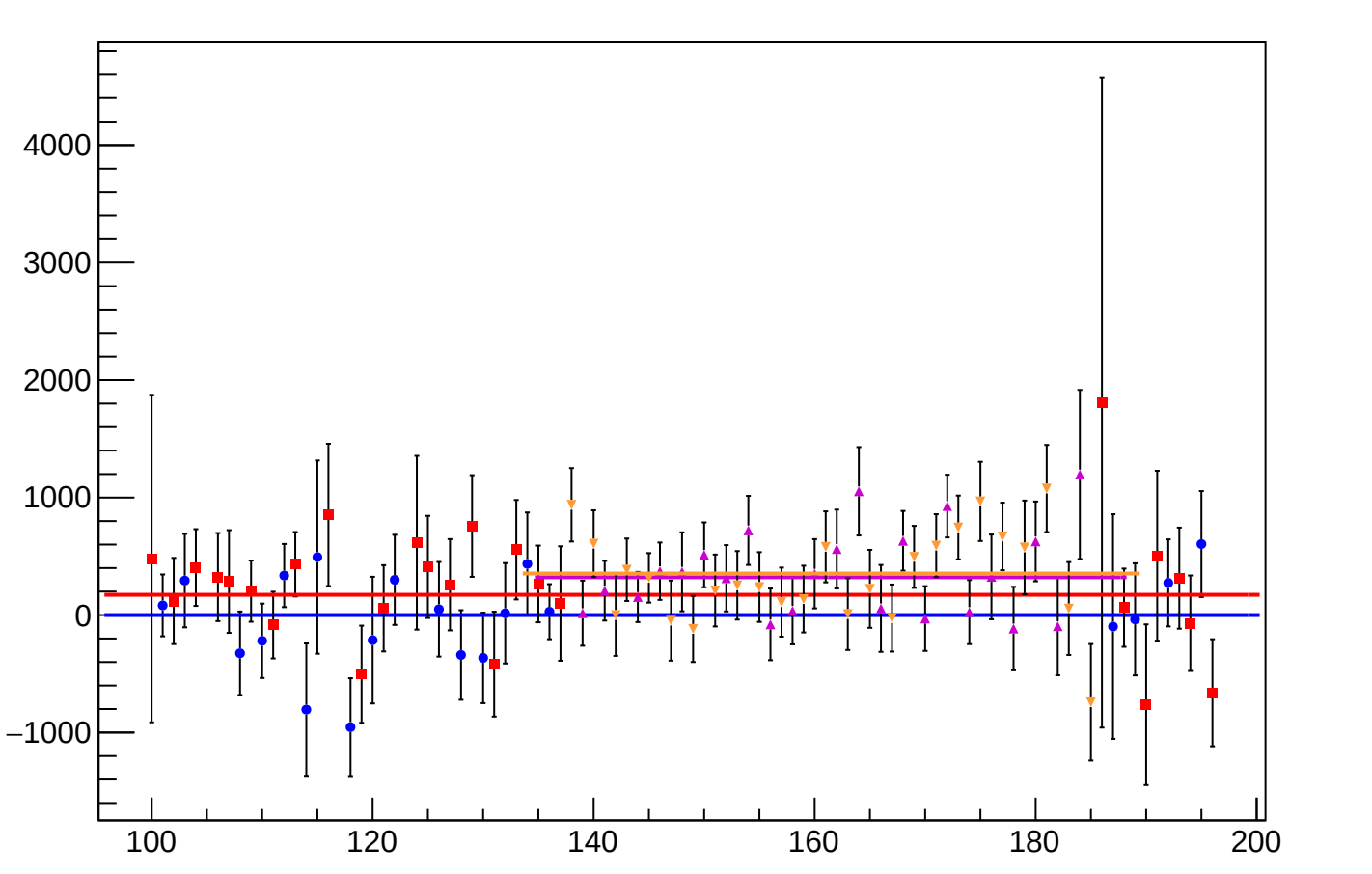
In: 260.628+/-0.035 $\chi^2$/NDF:1692915.4/42

Out: 261.185+/-0.034 $\chi^2$/NDF:2689880.3/50

All: 260.919+/-0.024 $\chi^2$/NDF: 4382925.0/93


asym_sam4_cor_correction_mean vs Slug, Sign Corrected
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -533.382+/-908.689 χ²/NDF: 21.7/19
Left Out: -2171.811+/-461.649 χ²/NDF:55.5/24
Right Out: 2359.359+/-844.960 χ²/NDF: 21.1/25
Left In: 313.745+/-474.086 χ²/NDF:23.7/22
Left: -962.064+/-330.745 χ²/NDF: 93.3/47
Right: 1017.975+/-618.782 χ²/NDF: 48.2/45
In: 132.495+/-420.320 χ²/NDF:46.0/42
Out: -1130.171+/-405.126 χ²/NDF:98.8/50
All: -522.072+/-291.691 χ²/NDF: 149.5/93


asym_sam4_cor_correction_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2666.486+/-0.643 χ²/NDF: 2181231.1/19
Left Out: 2002.229+/-0.326 χ²/NDF:892706.8/24
Right Out: 2659.378+/-0.597 χ²/NDF: 3777864.0/25
Left In: 2004.244+/-0.335 χ²/NDF:704920.5/22
Left: 2003.210+/-0.234 χ²/NDF: 1597645.9/47
Right: 2662.674+/-0.438 χ²/NDF: 5959160.6/45
In: 2145.936+/-0.297 χ²/NDF:3721134.2/42
Out: 2153.297+/-0.286 χ²/NDF:5602198.2/50
All: 2149.752+/-0.206 χ²/NDF: 9323650.3/93




Right In: 0.052+/-84.678 $\chi^2$/NDF: 17.0/19

Left Out: 353.640+/-60.149 $\chi^2$/NDF:32.3/24

Right Out: 172.497+/-79.346 $\chi^2$/NDF: 18.1/25

Left In: 321.514+/-62.113 $\chi^2$/NDF:26.2/22

Left: 338.093+/-43.209 $\chi^2$/NDF: 58.7/47

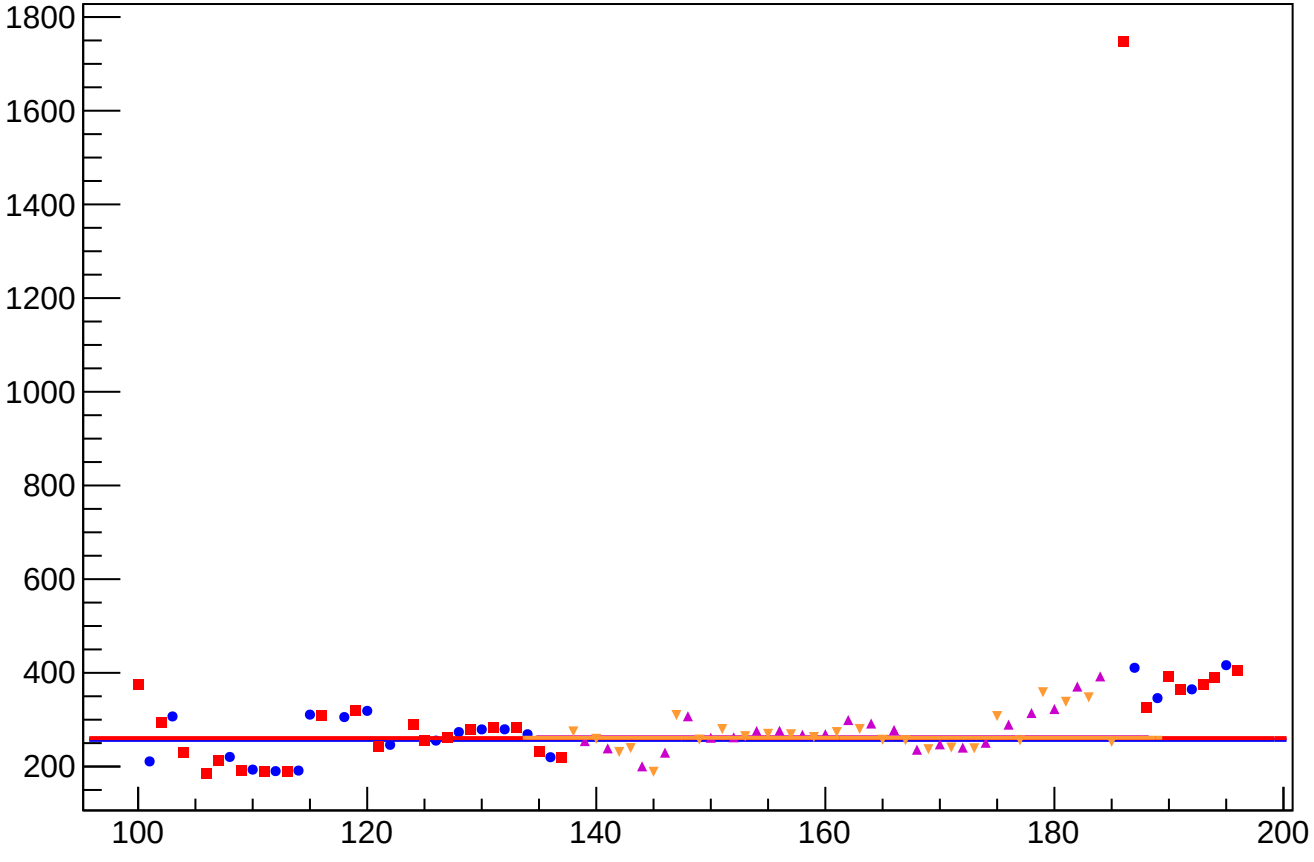
Right: 91.875+/-57.899 $\chi^2$/NDF: 37.4/45

In: 209.058+/-50.084 $\chi^2$/NDF:52.6/42

Out: 287.534+/-47.933 $\chi^2$/NDF:53.8/50

All: 250.017+/-34.629 $\chi^2$/NDF: 107.7/93

# eigen_cor_asym_sam4_rms vs Slug, Sign Corrected




Right In: 256.934+/-0.060 $\chi^2$/NDF: 1016413.3/19

Left Out: 261.470+/-0.043 $\chi^2$/NDF:715467.9/24

Right Out: 260.691+/-0.056 $\chi^2$/NDF: 1974290.0/25

Left In: 262.616+/-0.044 $\chi^2$/NDF:670646.4/22

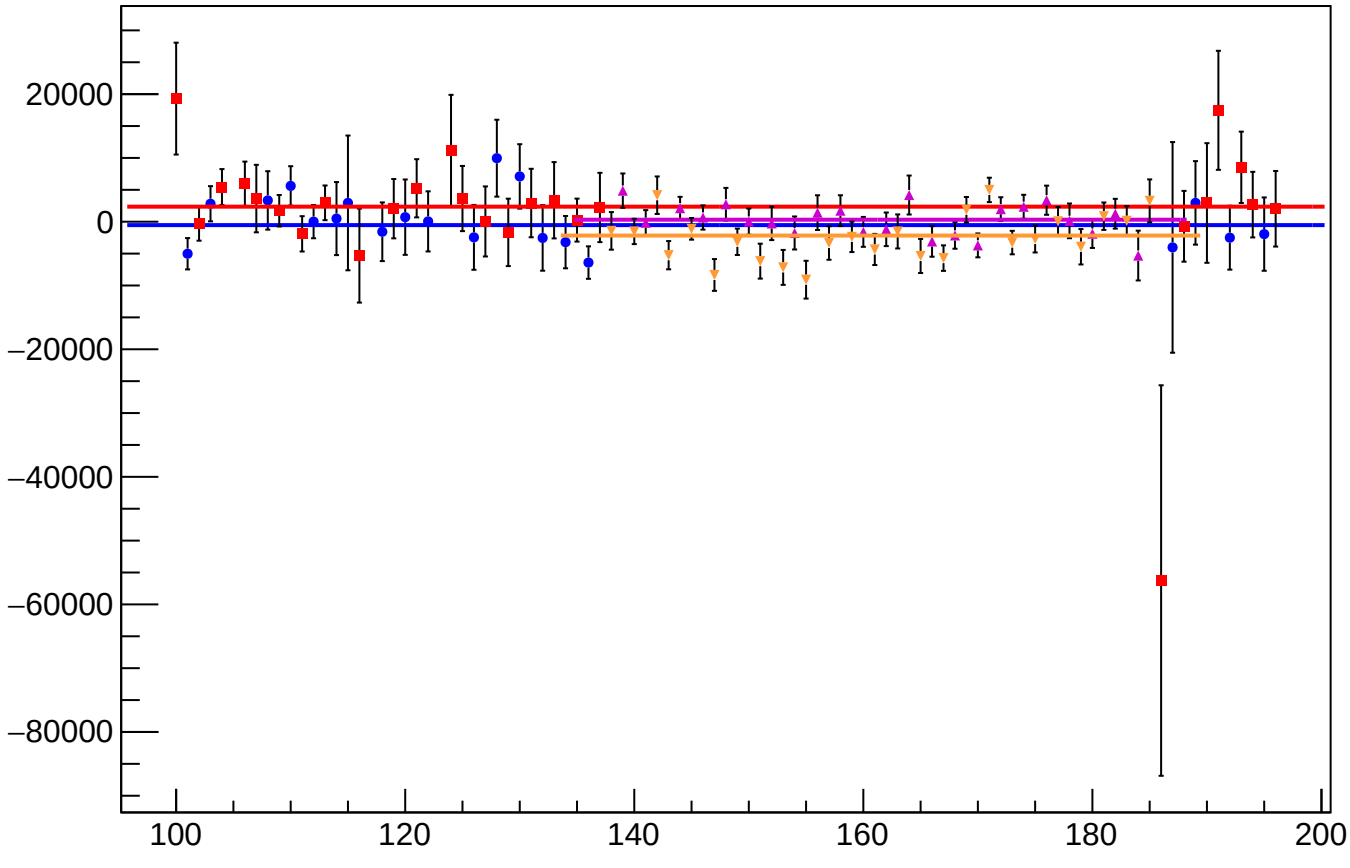
Left: 262.024+/-0.031 $\chi^2$/NDF: 1386465.9/47

Right: 258.934+/-0.041 $\chi^2$/NDF: 2992799.8/45

In: 260.628+/-0.035 $\chi^2$/NDF:1692915.4/42

Out: 261.185+/-0.034 $\chi^2$/NDF:2689880.3/50

All: 260.919+/-0.024 $\chi^2$/NDF: 4382925.0/93




Right In: -533.382+/-908.689 $\chi^2$/NDF: 21.7/19

Left Out: -2171.811+/-461.649 $\chi^2$/NDF:55.5/24

Right Out: 2359.359+/-844.960 $\chi^2$/NDF: 21.1/25

Left In: 313.745+/-474.086 $\chi^2$/NDF:23.7/22

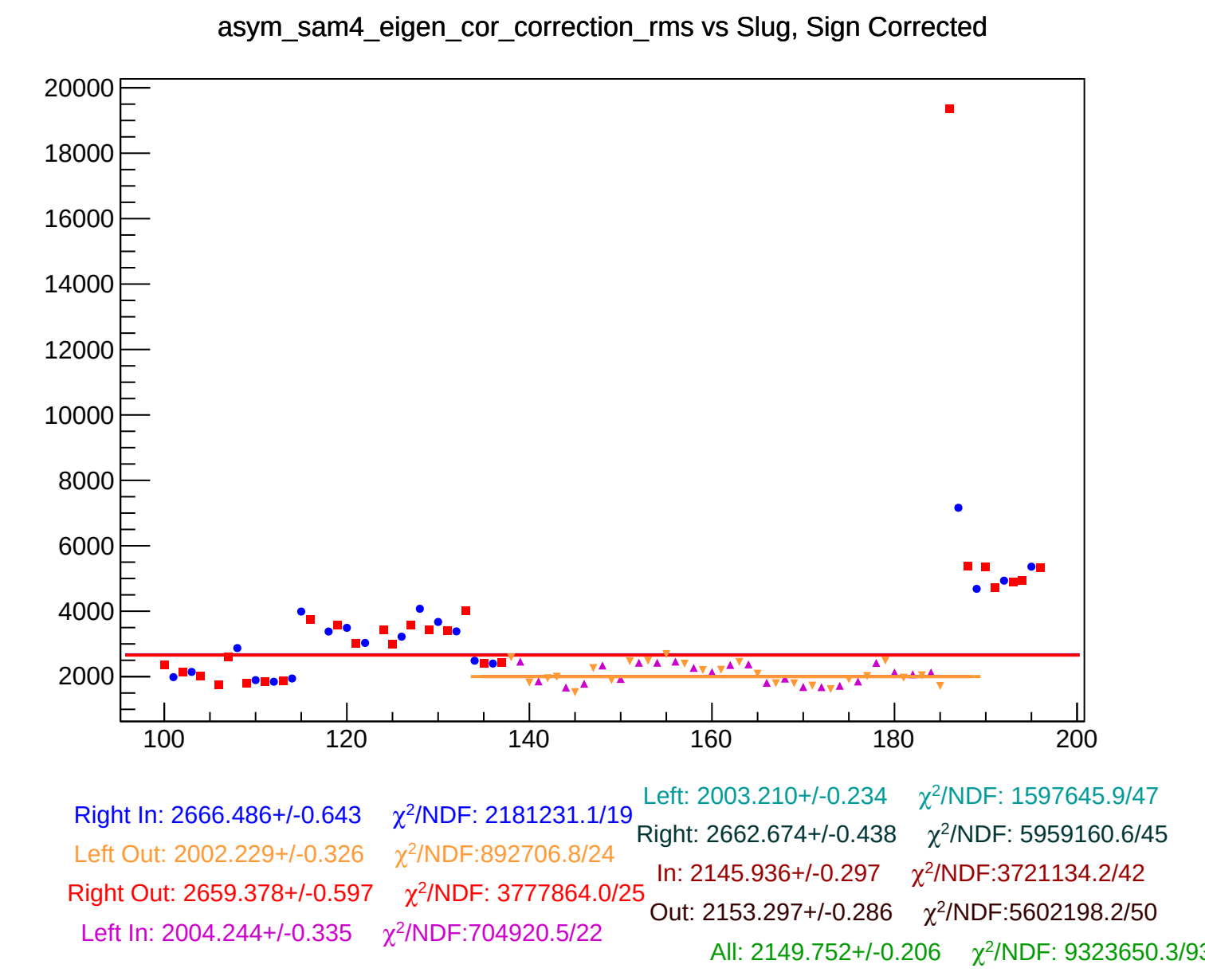
Left: -962.064+/-330.745 $\chi^2$/NDF: 93.3/47

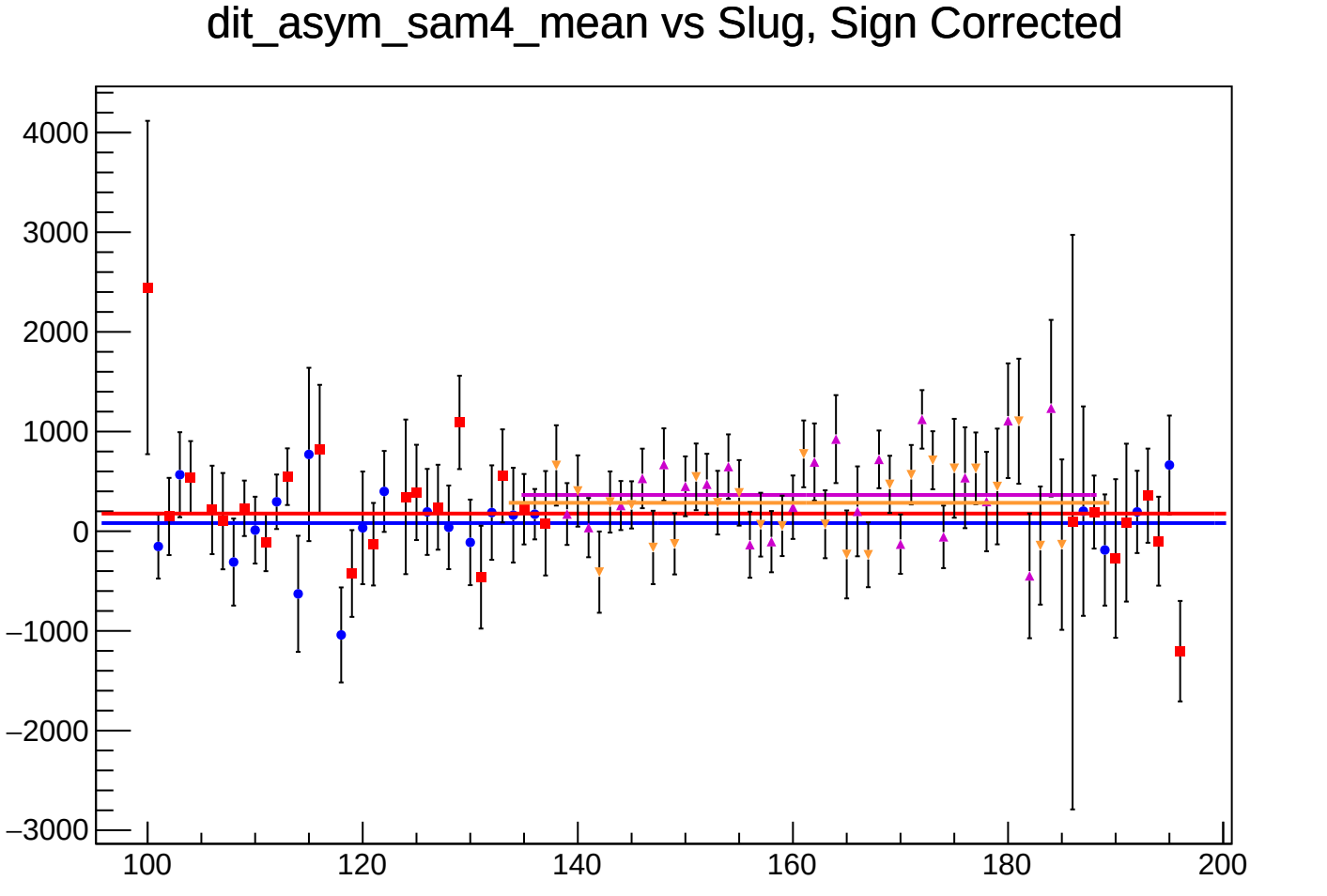
Right: 1017.975+/-618.782 $\chi^2$/NDF: 48.2/45

In: 132.495+/-420.320 $\chi^2$/NDF:46.0/42

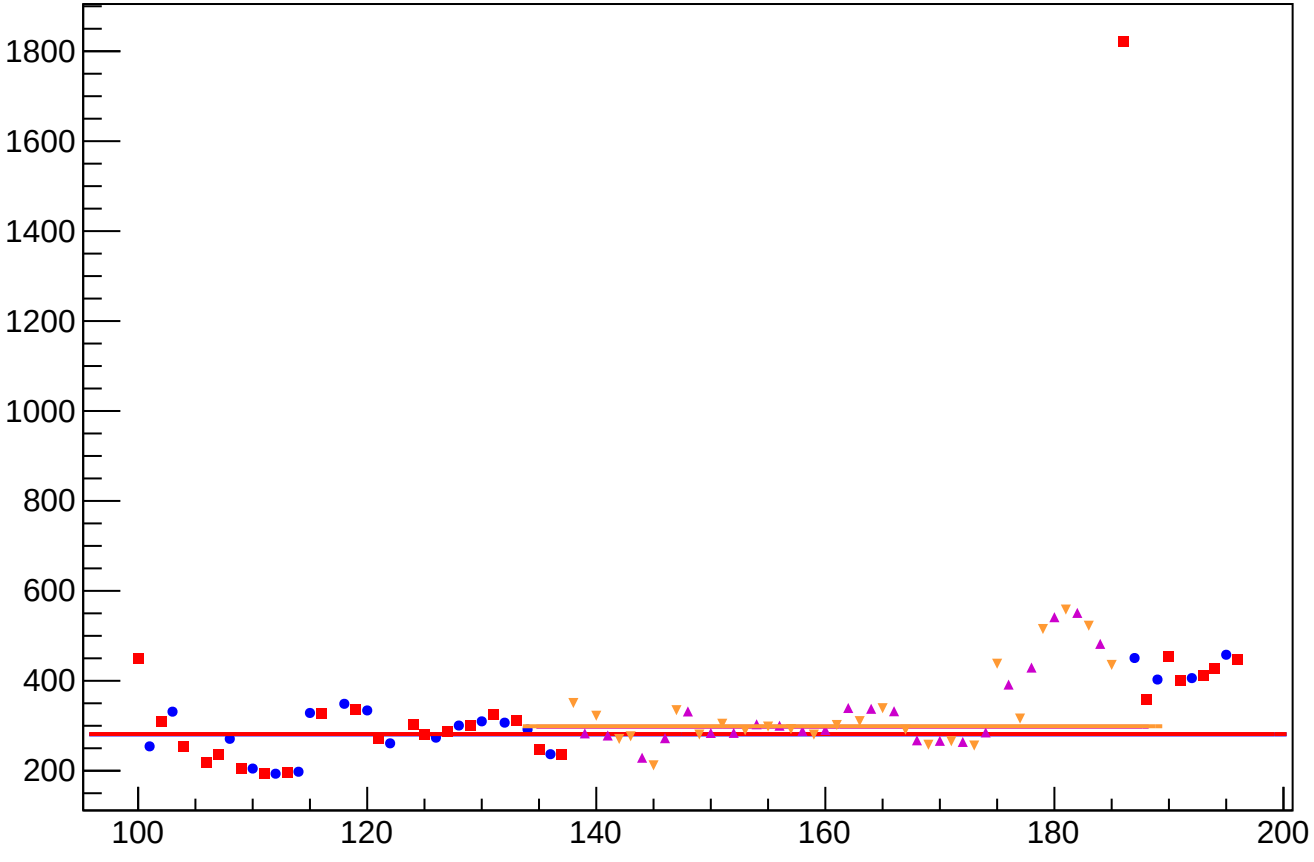
Out: -1130.171+/-405.126 $\chi^2$/NDF:98.8/50

All: -522.072+/-291.691 $\chi^2$/NDF: 149.5/93


asym_sam4_eigen_cor_correction_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2666.486+/-0.643 χ²/NDF: 2181231.1/19
Left Out: 2002.229+/-0.326 χ²/NDF:892706.8/24
Right Out: 2659.378+/-0.597 χ²/NDF: 3777864.0/25
Left In: 2004.244+/-0.335 χ²/NDF:704920.5/22
Left: 2003.210+/-0.234 χ²/NDF: 1597645.9/47
Right: 2662.674+/-0.438 χ²/NDF: 5959160.6/45
In: 2145.936+/-0.297 χ²/NDF:3721134.2/42
Out: 2153.297+/-0.286 χ²/NDF:5602198.2/50
All: 2149.752+/-0.206 χ²/NDF: 9323650.3/93


dit_asym_sam4_mean vs Slug, Sign Corrected
4000
3000
2000
1000
0
−1000
−2000
−3000
100
120
140
160
180
200
Right In: 81.974+/-93.005 χ²/NDF: 13.7/19
Left Out: 284.913+/-70.036 χ²/NDF:22.8/24
Right Out: 177.226+/-86.116 χ²/NDF: 23.7/25
Left In: 364.163+/-71.714 χ²/NDF:28.2/22
Left: 323.600+/-50.106 χ²/NDF: 51.7/47
Right: 133.258+/-63.189 χ²/NDF: 38.0/45
In: 258.945+/-56.791 χ²/NDF:47.7/42
Out: 242.042+/-54.335 χ²/NDF:47.5/50
All: 250.120+/-39.260 χ²/NDF: 95.3/93

# dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 280.783+/-0.066 $\chi^2$/NDF: 1128297.3/19

Left Out: 298.938+/-0.050 $\chi^2$/NDF:1613077.3/24

Right Out: 281.611+/-0.061 $\chi^2$/NDF: 2102686.0/25

Left In: 297.885+/-0.051 $\chi^2$/NDF:1319062.0/22

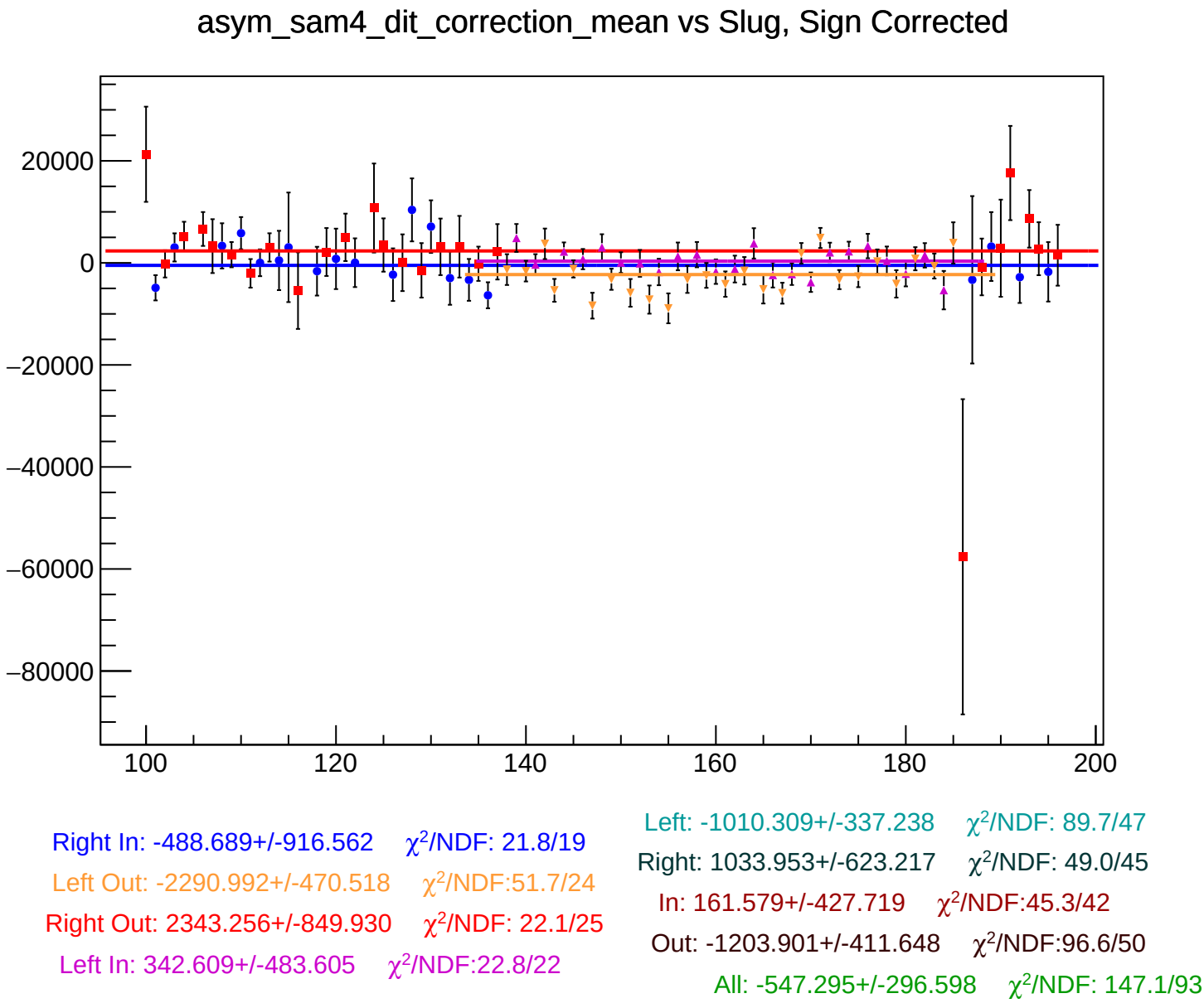
Left: 298.424+/-0.035 $\chi^2$/NDF: 2932359.8/47

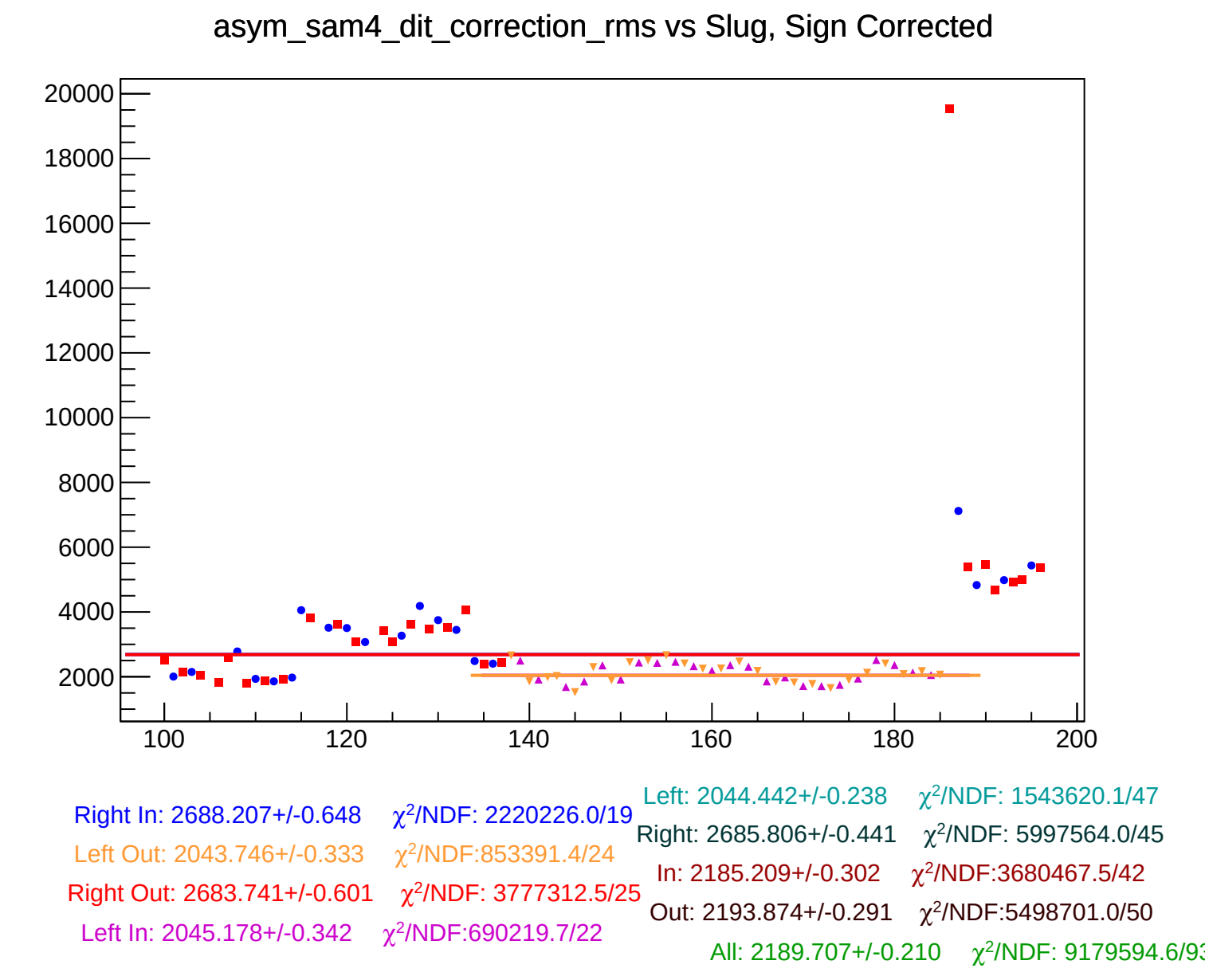
Right: 281.229+/-0.045 $\chi^2$/NDF: 3231068.7/45

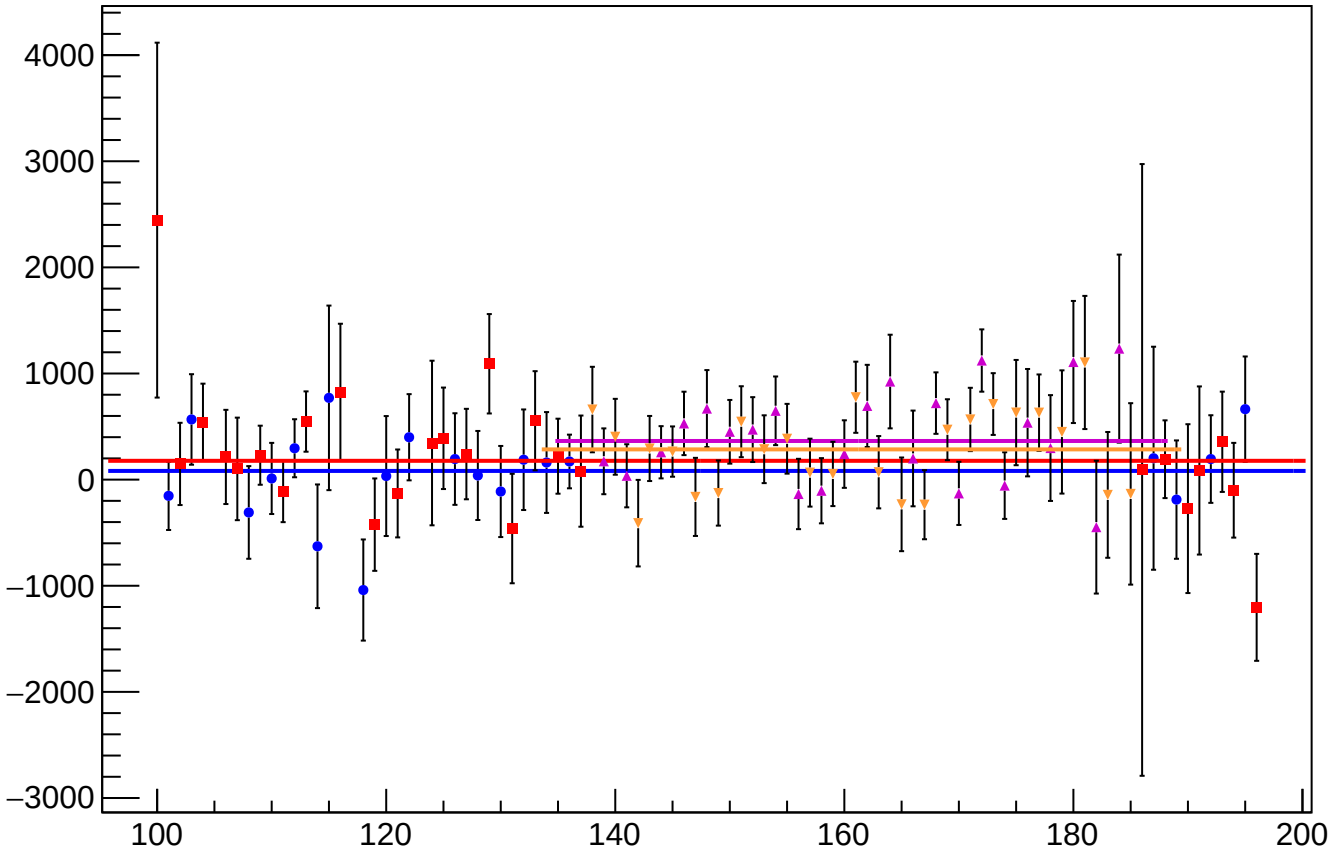
In: 291.508+/-0.040 $\chi^2$/NDF:2489769.7/42

Out: 292.040+/-0.038 $\chi^2$/NDF:3764494.3/50

All: 291.786+/-0.028 $\chi^2$/NDF: 6254355.4/93


asym_sam4_dit_correction_mean vs Slug, Sign Corrected
20000
0
−20000
−40000
−60000
−80000
100
120
140
160
180
200
Right In: -488.689+/-916.562 χ²/NDF: 21.8/19
Left Out: -2290.992+/-470.518 χ²/NDF:51.7/24
Right Out: 2343.256+/-849.930 χ²/NDF: 22.1/25
Left In: 342.609+/-483.605 χ²/NDF:22.8/22
Left: -1010.309+/-337.238 χ²/NDF: 89.7/47
Right: 1033.953+/-623.217 χ²/NDF: 49.0/45
In: 161.579+/-427.719 χ²/NDF:45.3/42
Out: -1203.901+/-411.648 χ²/NDF:96.6/50
All: -547.295+/-296.598 χ²/NDF: 147.1/93


asym_sam4_dit_correction_rms vs Slug, Sign Corrected
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2688.207+/-0.648 χ²/NDF: 2220226.0/19
Left Out: 2043.746+/-0.333 χ²/NDF:853391.4/24
Right Out: 2683.741+/-0.601 χ²/NDF: 3777312.5/25
Left In: 2045.178+/-0.342 χ²/NDF:690219.7/22
Left: 2044.442+/-0.238 χ²/NDF: 1543620.1/47
Right: 2685.806+/-0.441 χ²/NDF: 5997564.0/45
In: 2185.209+/-0.302 χ²/NDF:3680467.5/42
Out: 2193.874+/-0.291 χ²/NDF:5498701.0/50
All: 2189.707+/-0.210 χ²/NDF: 9179594.6/93




Right In: 81.978+/-93.005 $\chi^2$/NDF: 13.7/19

Left Out: 284.918+/-70.036 $\chi^2$/NDF:22.8/24

Right Out: 177.225+/-86.116 $\chi^2$/NDF: 23.7/25

Left In: 364.164+/-71.714 $\chi^2$/NDF:28.2/22

Left: 323.603+/-50.106 $\chi^2$/NDF: 51.7/47

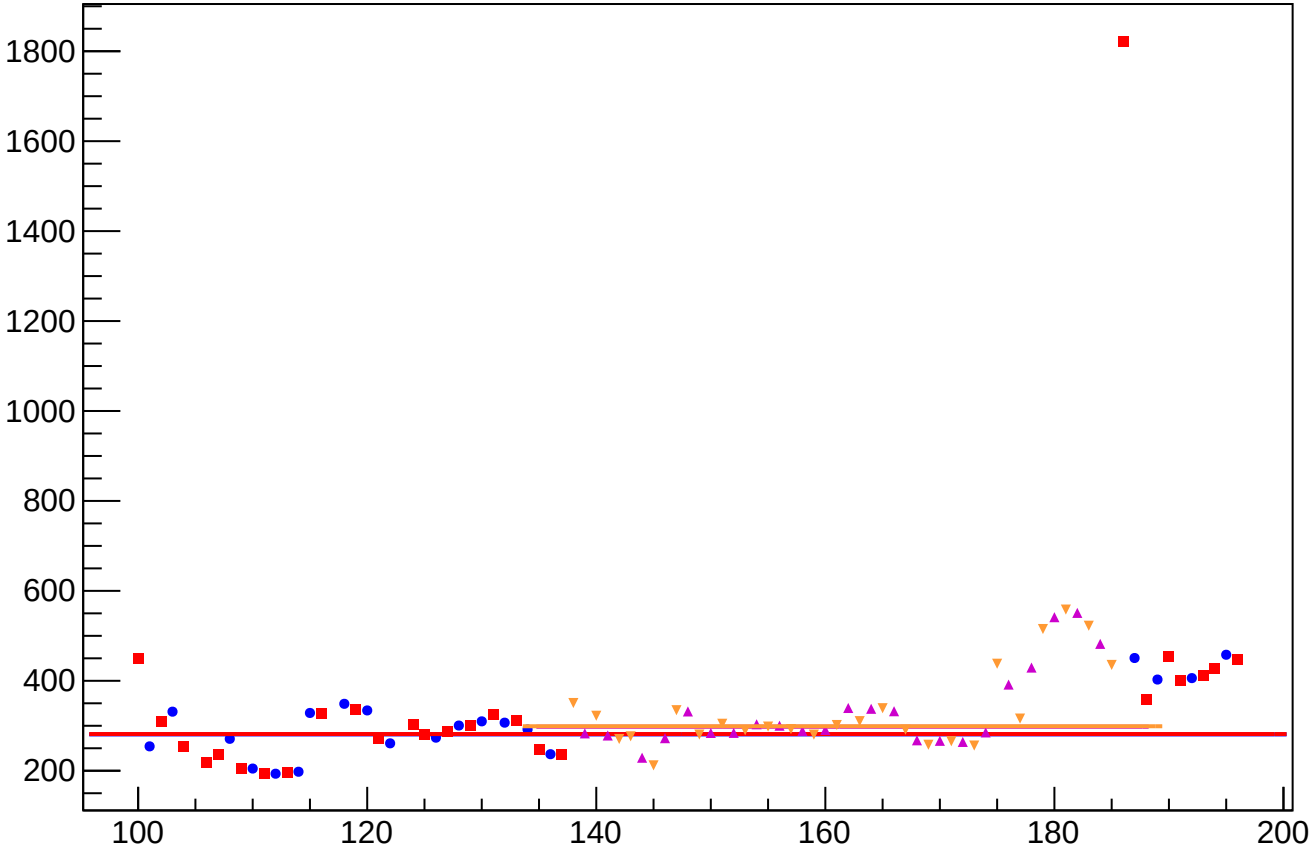
Right: 133.259+/-63.189 $\chi^2$/NDF: 38.0/45

In: 258.947+/-56.791 $\chi^2$/NDF:47.7/42

Out: 242.045+/-54.335 $\chi^2$/NDF:47.5/50

All: 250.122+/-39.261 $\chi^2$/NDF: 95.3/93

# eigen_dit_asym_sam4_rms vs Slug, Sign Corrected




Right In: 280.783+/-0.066 $\chi^2$/NDF: 1128293.6/19

Left Out: 298.938+/-0.050 $\chi^2$/NDF:1613074.5/24

Right Out: 281.611+/-0.061 $\chi^2$/NDF: 2102687.1/25

Left In: 297.885+/-0.051 $\chi^2$/NDF:1319043.7/22

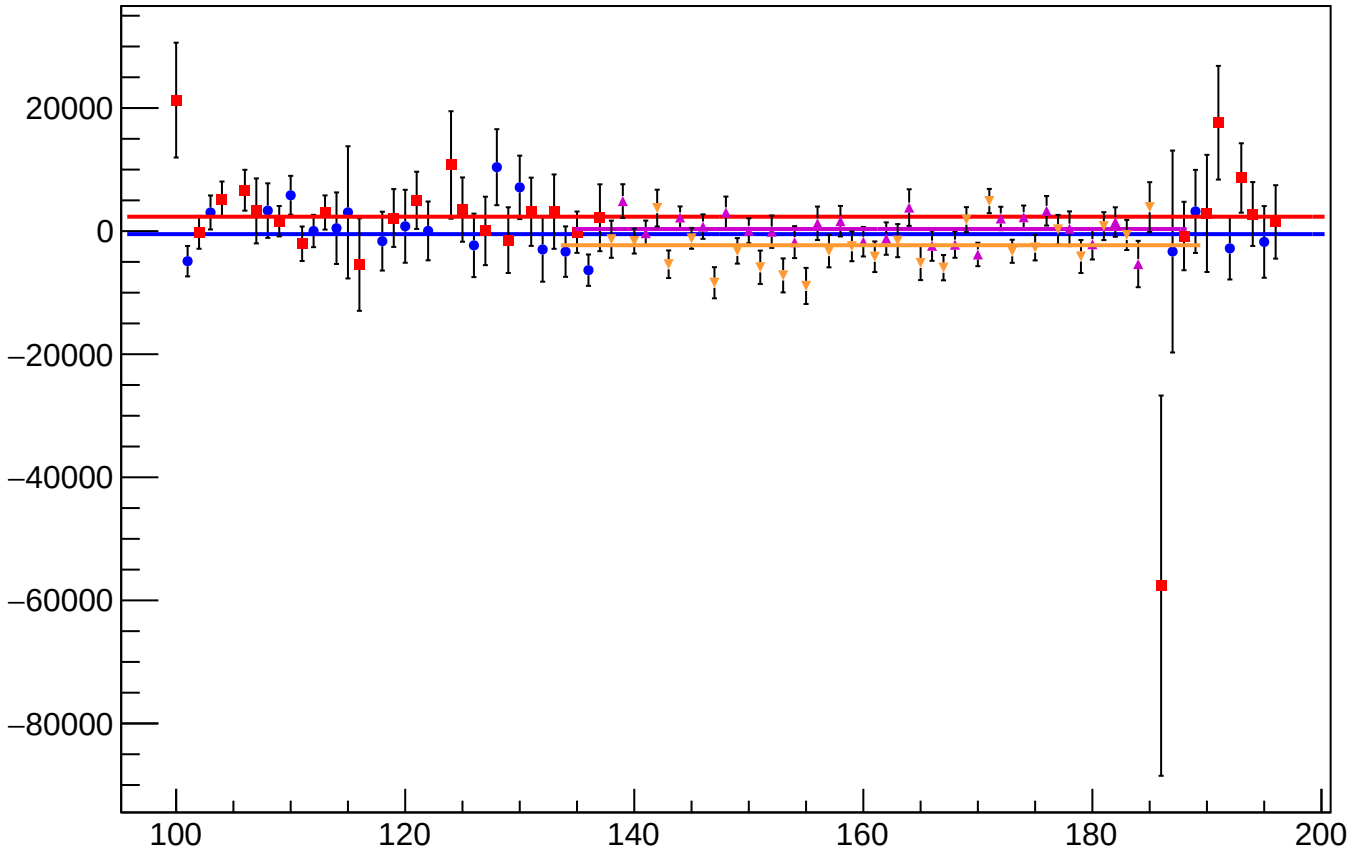
Left: 298.424+/-0.035 $\chi^2$/NDF: 2932338.7/47

Right: 281.229+/-0.045 $\chi^2$/NDF: 3231066.1/45

In: 291.509+/-0.040 $\chi^2$/NDF:2489748.9/42

Out: 292.040+/-0.038 $\chi^2$/NDF:3764494.3/50

All: 291.786+/-0.028 $\chi^2$/NDF: 6254334.7/93




Right In: -488.688+/-916.562 $\chi^2$/NDF: 21.8/19

Left Out: -2290.986+/-470.517 $\chi^2$/NDF:51.7/24

Right Out: 2343.254+/-849.929 $\chi^2$/NDF: 22.1/25

Left In: 342.606+/-483.604 $\chi^2$/NDF:22.8/22

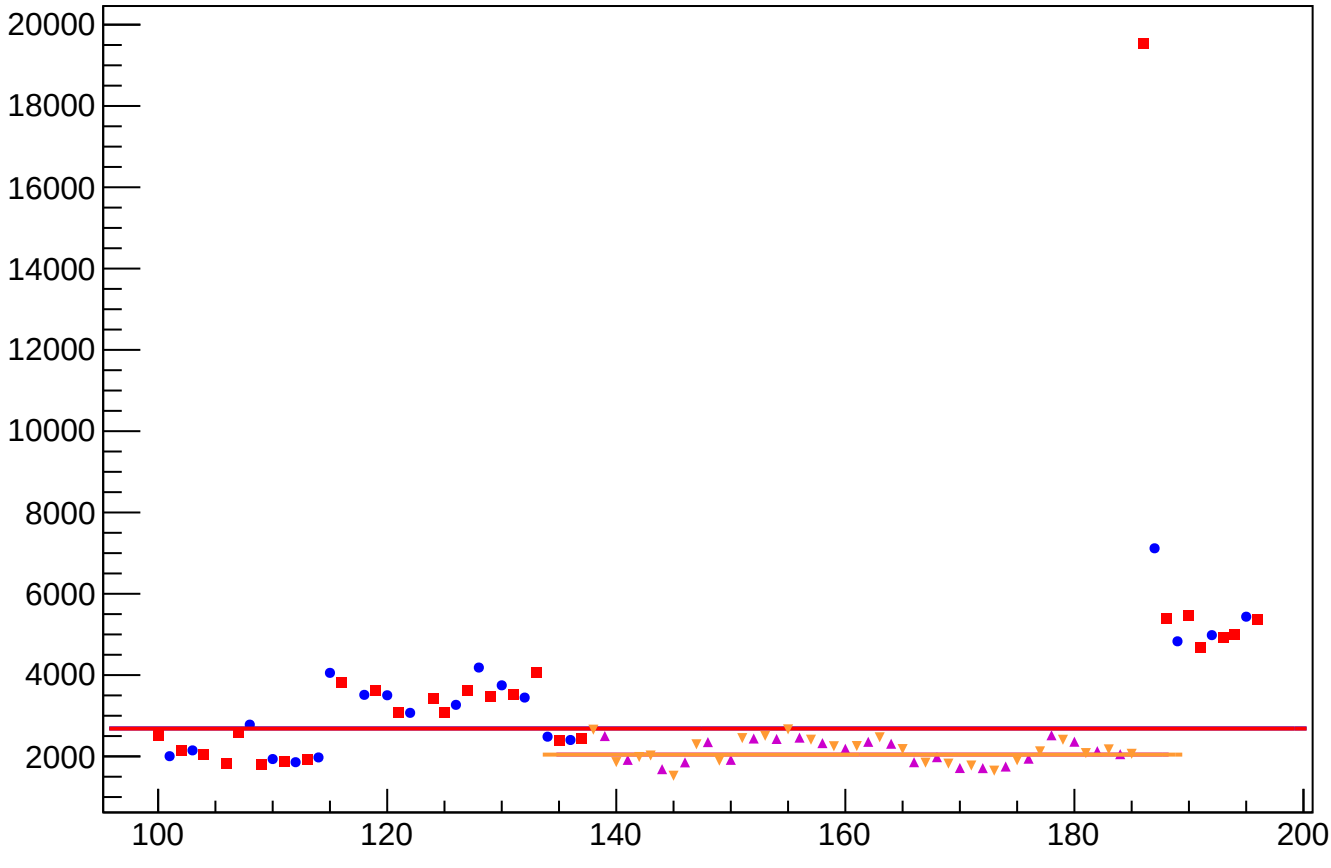
Left: -1010.308+/-337.238 $\chi^2$/NDF: 89.7/47

Right: 1033.953+/-623.217 $\chi^2$/NDF: 49.0/45

In: 161.578+/-427.719 $\chi^2$/NDF:45.3/42

Out: -1203.898+/-411.648 $\chi^2$/NDF:96.6/50

All: -547.295+/-296.598 $\chi^2$/NDF: 147.1/93




Right In: 2688.206+/-0.648 $\chi^2$/NDF: 2220227.4/19

Left Out: 2043.742+/-0.333 $\chi^2$/NDF:853393.7/24

Right Out: 2683.739+/-0.601 $\chi^2$/NDF: 3777309.7/25

Left In: 2045.175+/-0.342 $\chi^2$/NDF:690218.2/22

Left: 2044.439+/-0.238 $\chi^2$/NDF: 1543620.9/47

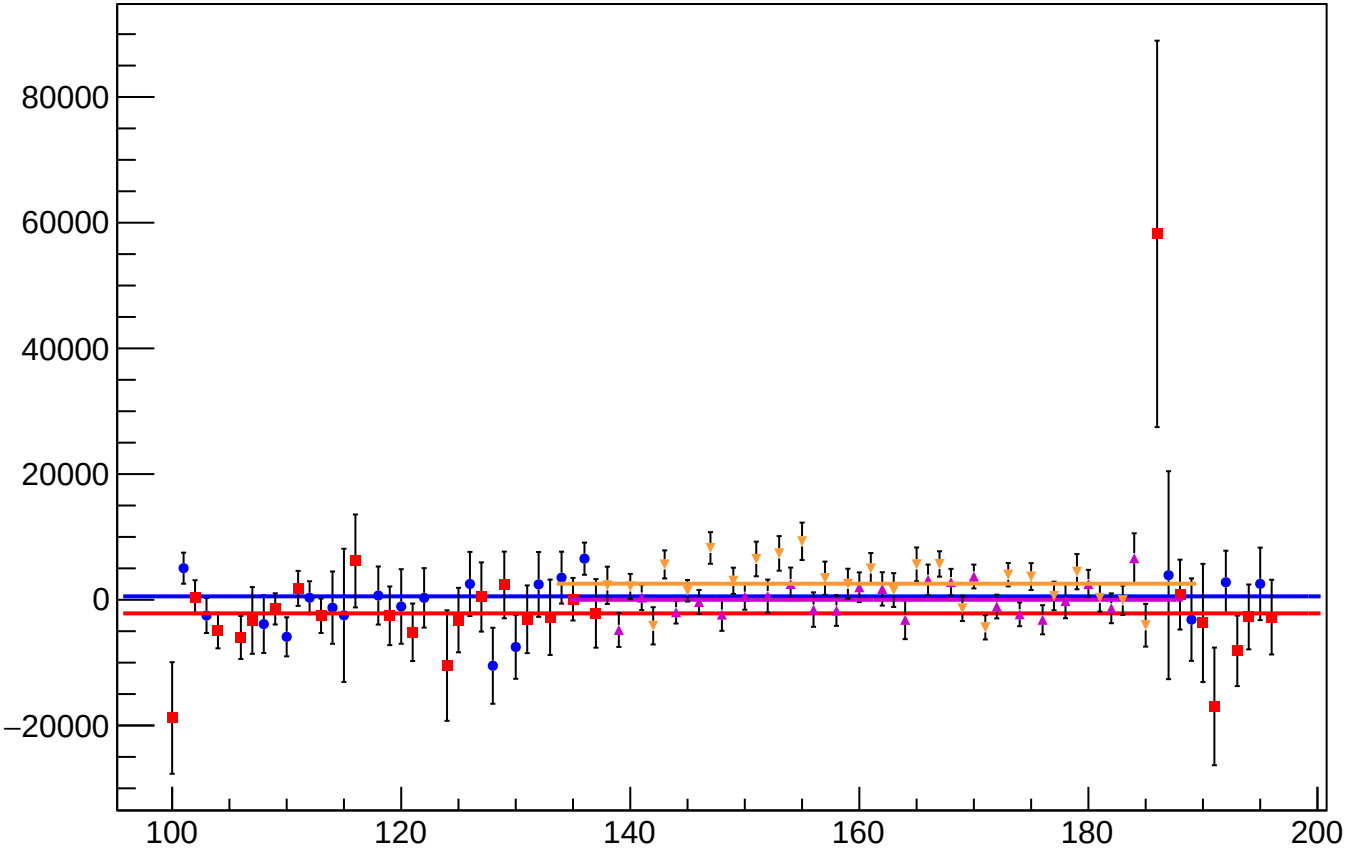
Right: 2685.804+/-0.441 $\chi^2$/NDF: 5997562.6/45

In: 2185.206+/-0.302 $\chi^2$/NDF:3680471.3/42

Out: 2193.871+/-0.291 $\chi^2$/NDF:5498705.4/50

All: 2189.705+/-0.210 $\chi^2$/NDF: 9179602.8/93

# asym_sam4_mean vs Slug, Sign Corrected




Right In: 545.371+/-913.565 $\chi^2$/NDF: 22.8/19

Left Out: 2559.048+/-465.944 $\chi^2$/NDF:52.7/24

Right Out: -2164.233+/-848.453 $\chi^2$/NDF: 20.7/25

Left In: 3.474+/-478.514 $\chi^2$/NDF:24.7/22

Left: 1315.267+/-333.828 $\chi^2$/NDF: 92.0/47

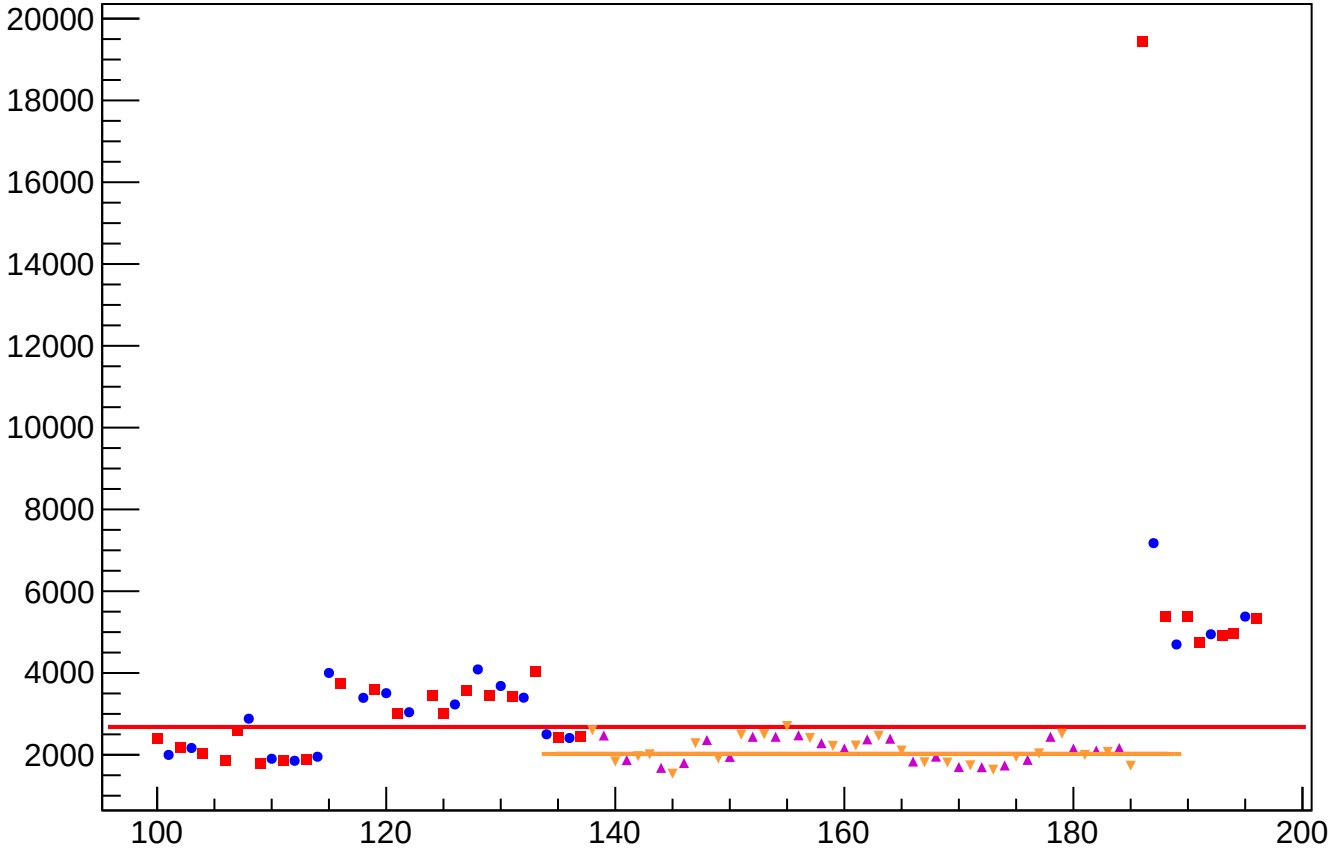
Right: -909.424+/-621.692 $\chi^2$/NDF: 48.2/45

In: 120.138+/-423.886 $\chi^2$/NDF:47.7/42

Out: 1464.630+/-408.411 $\chi^2$/NDF:97.2/50

All: 817.375+/-294.109 $\chi^2$/NDF: 150.2/93

# asym_sam4_rms vs Slug, Sign Corrected




Right In: 2682.066+/-0.646 $\chi^2$/NDF: 2165712.2/19

Left Out: 2021.266+/-0.329 $\chi^2$/NDF:881370.9/24

Right Out: 2679.706+/-0.600 $\chi^2$/NDF: 3729603.9/25

Left In: 2023.284+/-0.338 $\chi^2$/NDF:696055.4/22

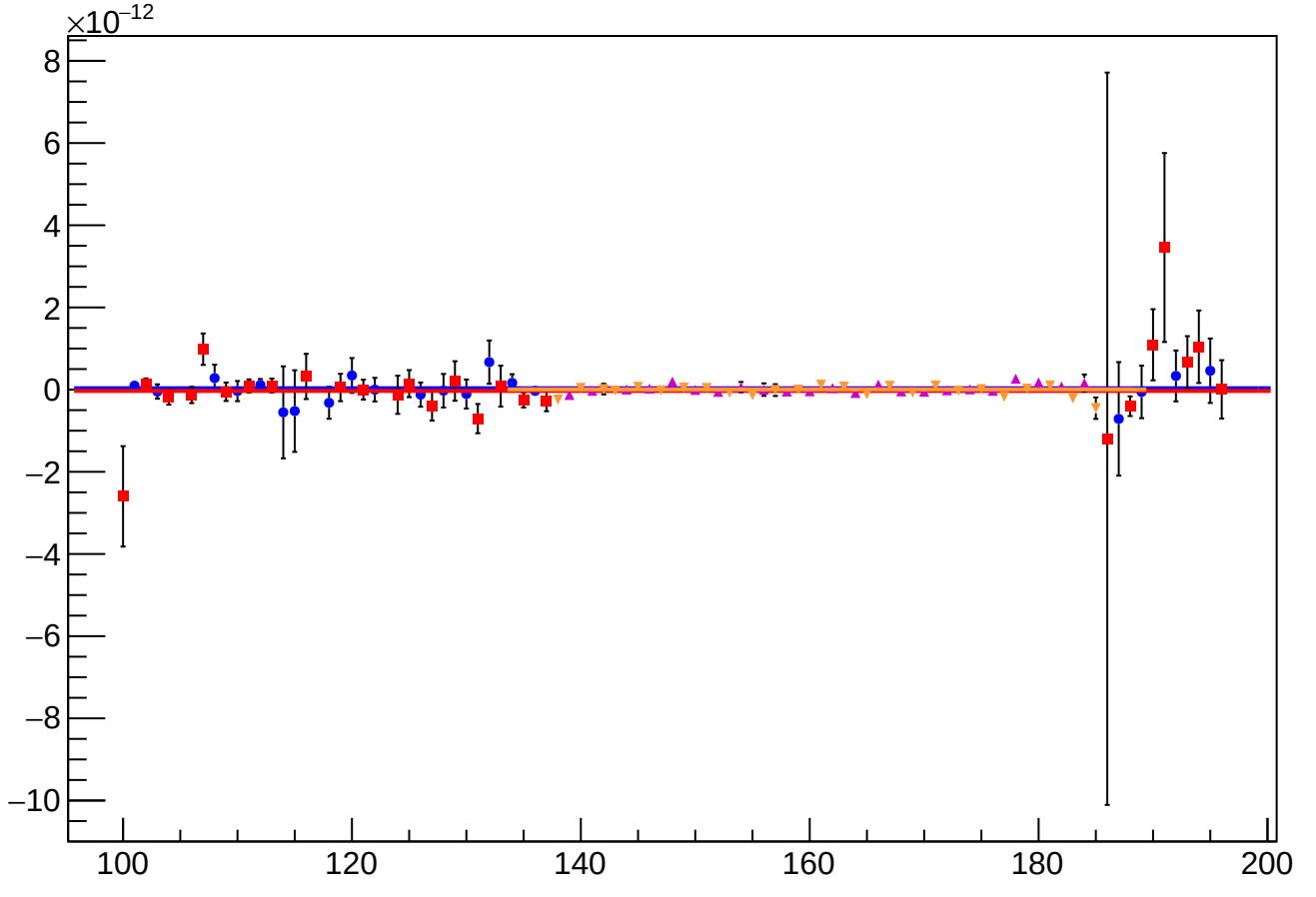
Left: 2022.248+/-0.236 $\chi^2$/NDF: 1577444.6/47

Right: 2680.799+/-0.440 $\chi^2$/NDF: 5895323.2/45

In: 2165.112+/-0.300 $\chi^2$/NDF:3677872.4/42

Out: 2173.831+/-0.289 $\chi^2$/NDF:5536384.5/50

All: 2169.634+/-0.208 $\chi^2$/NDF: 9214695.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 7.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:32.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 32.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.8/22

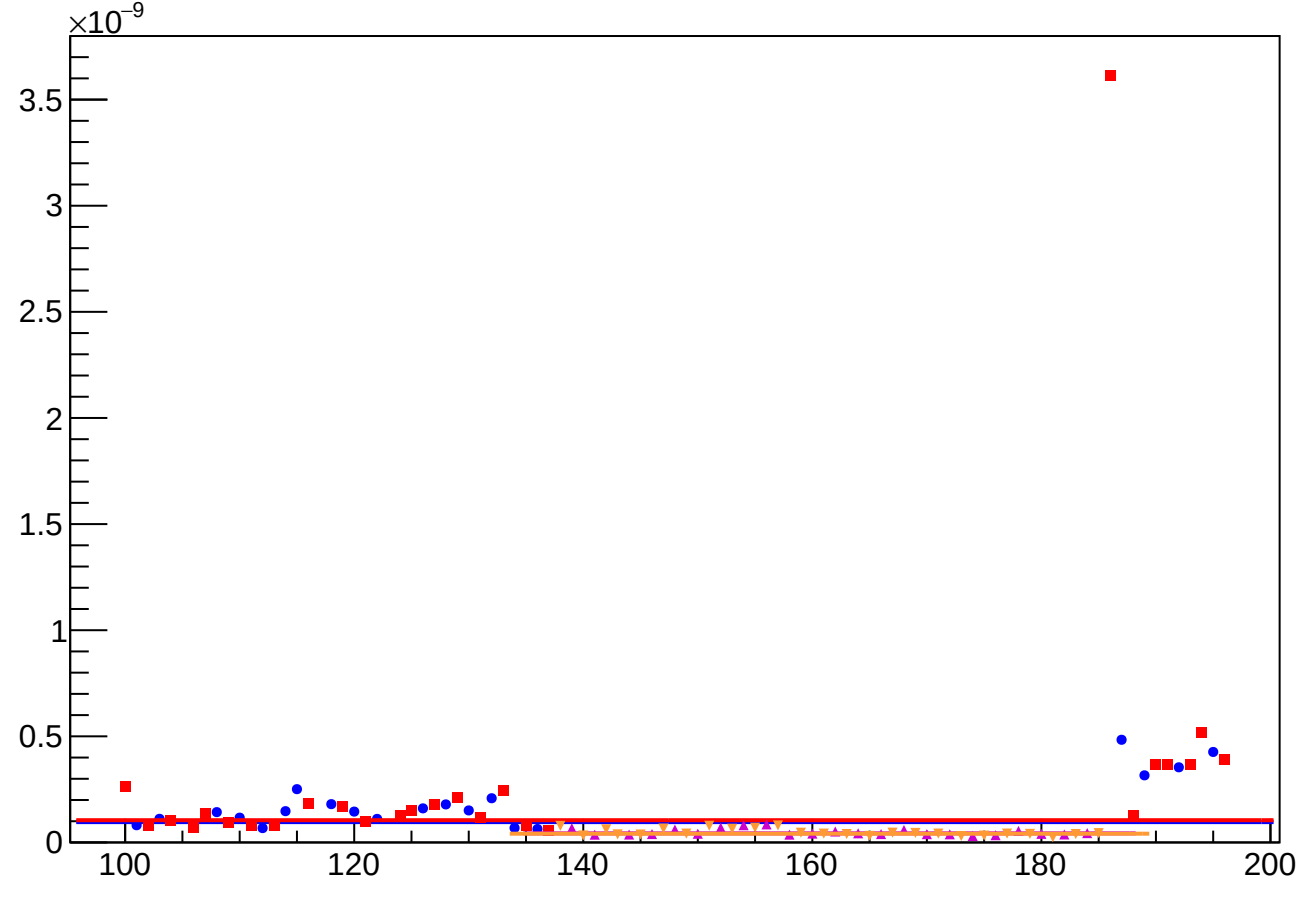
Left: 0.000+/-0.000 $\chi^2$/NDF: 53.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:28.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:64.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 93.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2046872.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1235677.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2521412.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:931395.8/22

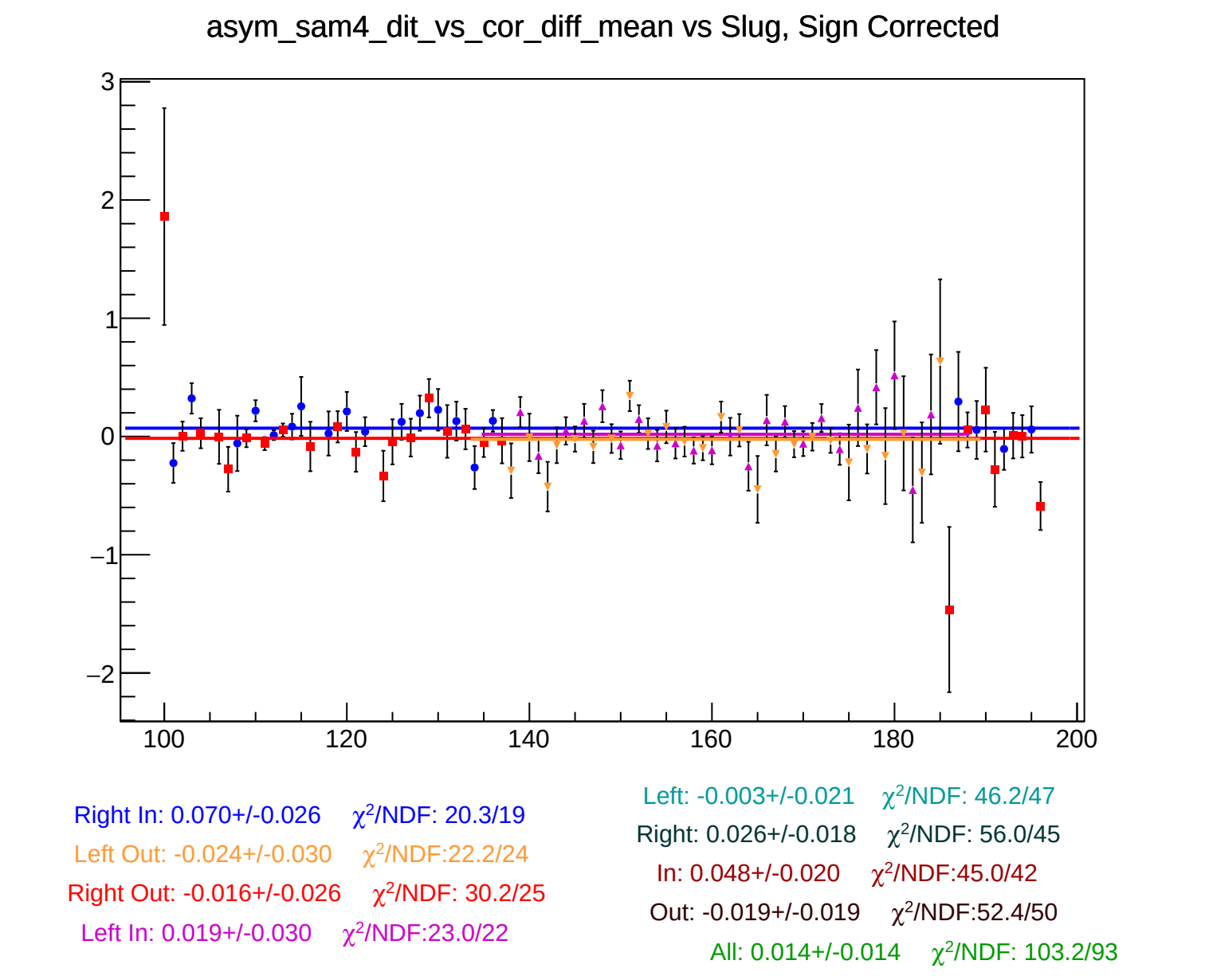
Left: 0.000+/-0.000 $\chi^2$/NDF: 2176066.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 4597324.8/45

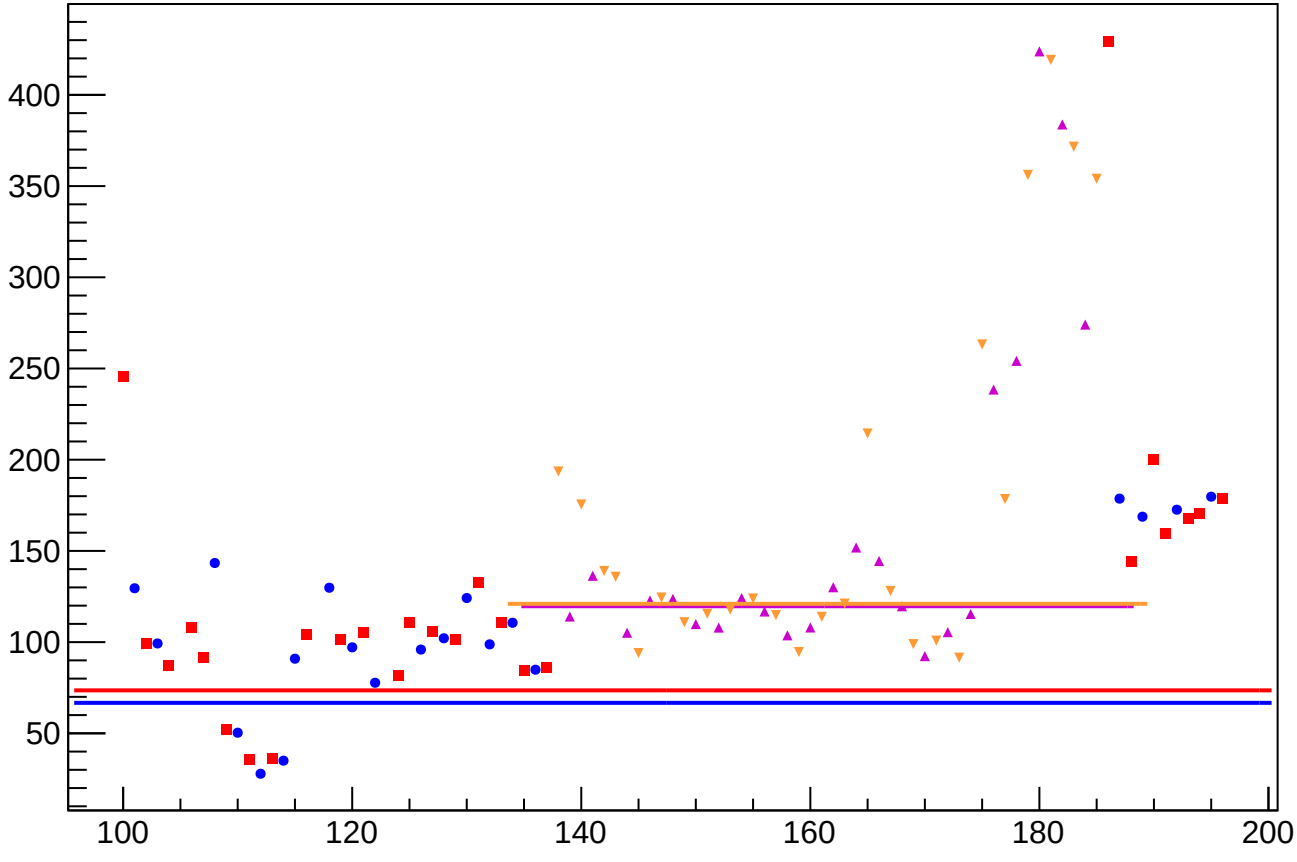
In: 0.000+/-0.000 $\chi^2$/NDF:4849333.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6319124.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 11179329.2/93


asym_sam4_dit_vs_cor_diff_mean vs Slug, Sign Corrected
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: 0.070+/-0.026 χ²/NDF: 20.3/19
Left Out: -0.024+/-0.030 χ²/NDF:22.2/24
Right Out: -0.016+/-0.026 χ²/NDF: 30.2/25
Left In: 0.019+/-0.030 χ²/NDF:23.0/22
Left: -0.003+/-0.021 χ²/NDF: 46.2/47
Right: 0.026+/-0.018 χ²/NDF: 56.0/45
In: 0.048+/-0.020 χ²/NDF:45.0/42
Out: -0.019+/-0.019 χ²/NDF:52.4/50
All: 0.014+/-0.014 χ²/NDF: 103.2/93

# asym_sam4_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.716+/-0.019 $\chi^2$/NDF: 5516684.7/19

Left Out: 120.999+/-0.021 $\chi^2$/NDF:4095266.9/24

Right Out: 73.560+/-0.018 $\chi^2$/NDF: 5904073.7/25

Left In: 119.679+/-0.021 $\chi^2$/NDF:2838257.9/22

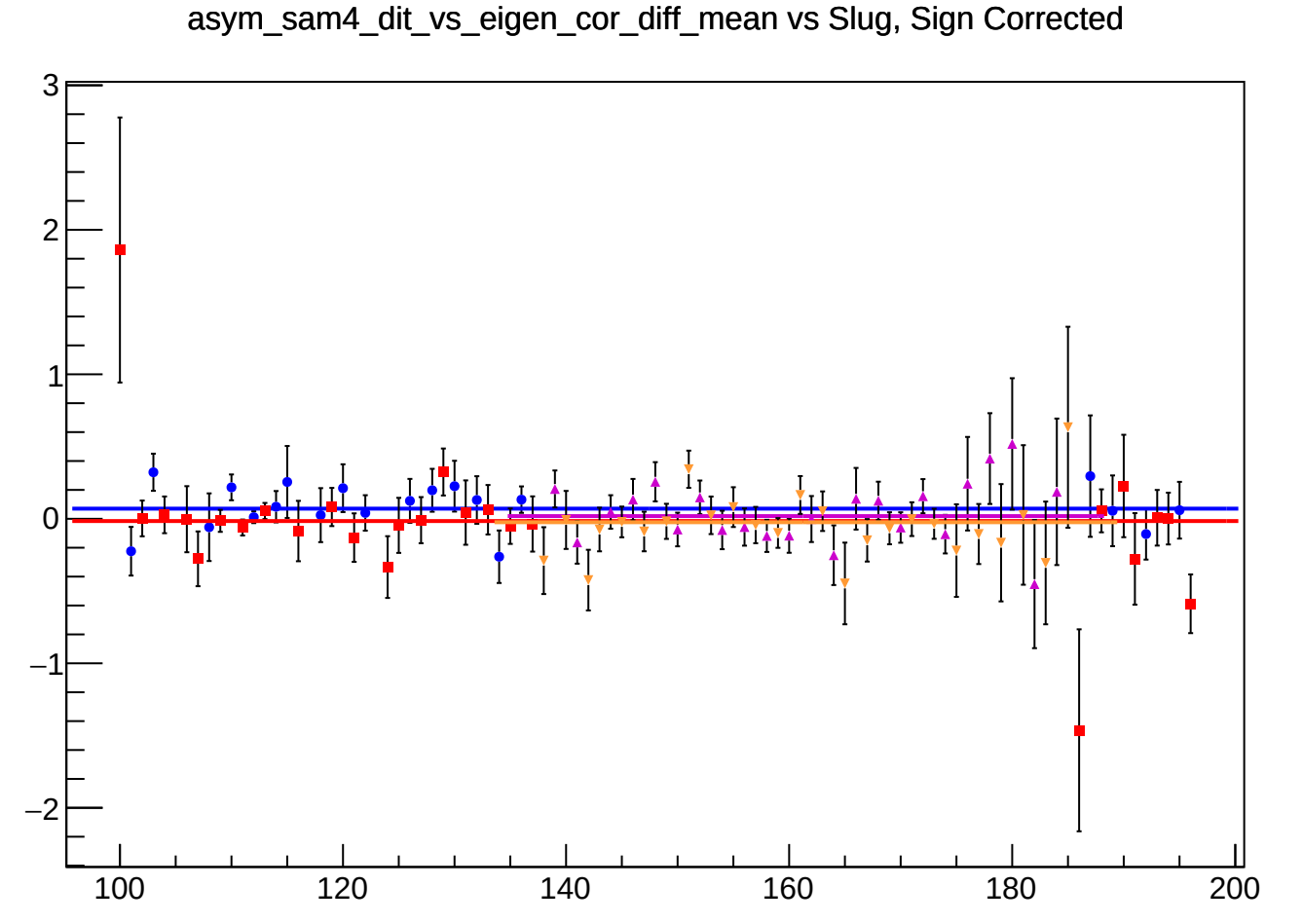
Left: 120.346+/-0.015 $\chi^2$/NDF: 6935453.1/47

Right: 70.237+/-0.013 $\chi^2$/NDF: 11490669.4/45

In: 89.492+/-0.014 $\chi^2$/NDF:11855061.2/42

Out: 93.542+/-0.014 $\chi^2$/NDF:12912712.6/50

All: 91.560+/-0.010 $\chi^2$/NDF: 24810397.1/93




Right In: 0.070+/-0.026 $\chi^2$/NDF: 20.3/19

Left Out: -0.024+/-0.030 $\chi^2$/NDF:22.2/24

Right Out: -0.016+/-0.026 $\chi^2$/NDF: 30.2/25

Left In: 0.019+/-0.030 $\chi^2$/NDF:23.0/22

Left: -0.003+/-0.021 $\chi^2$/NDF: 46.2/47

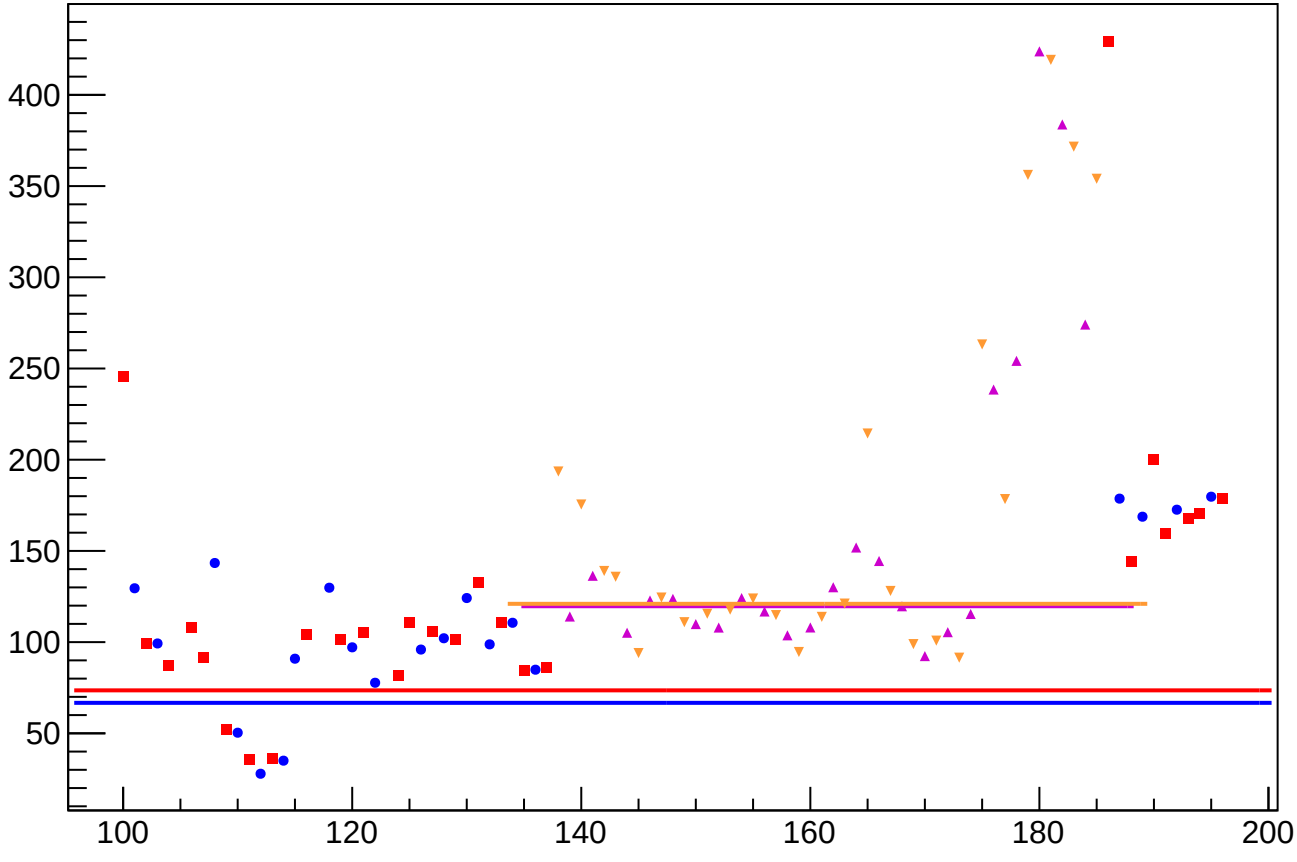
Right: 0.026+/-0.018 $\chi^2$/NDF: 56.0/45

In: 0.048+/-0.020 $\chi^2$/NDF:45.0/42

Out: -0.019+/-0.019 $\chi^2$/NDF:52.4/50

All: 0.014+/-0.014 $\chi^2$/NDF: 103.2/93

asym_sam4_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.716+/-0.019 $\chi^2$/NDF: 5516684.7/19

Left Out: 120.999+/-0.021 $\chi^2$/NDF:4095266.9/24

Right Out: 73.560+/-0.018 $\chi^2$/NDF: 5904073.7/25

Left In: 119.679+/-0.021 $\chi^2$/NDF:2838257.9/22

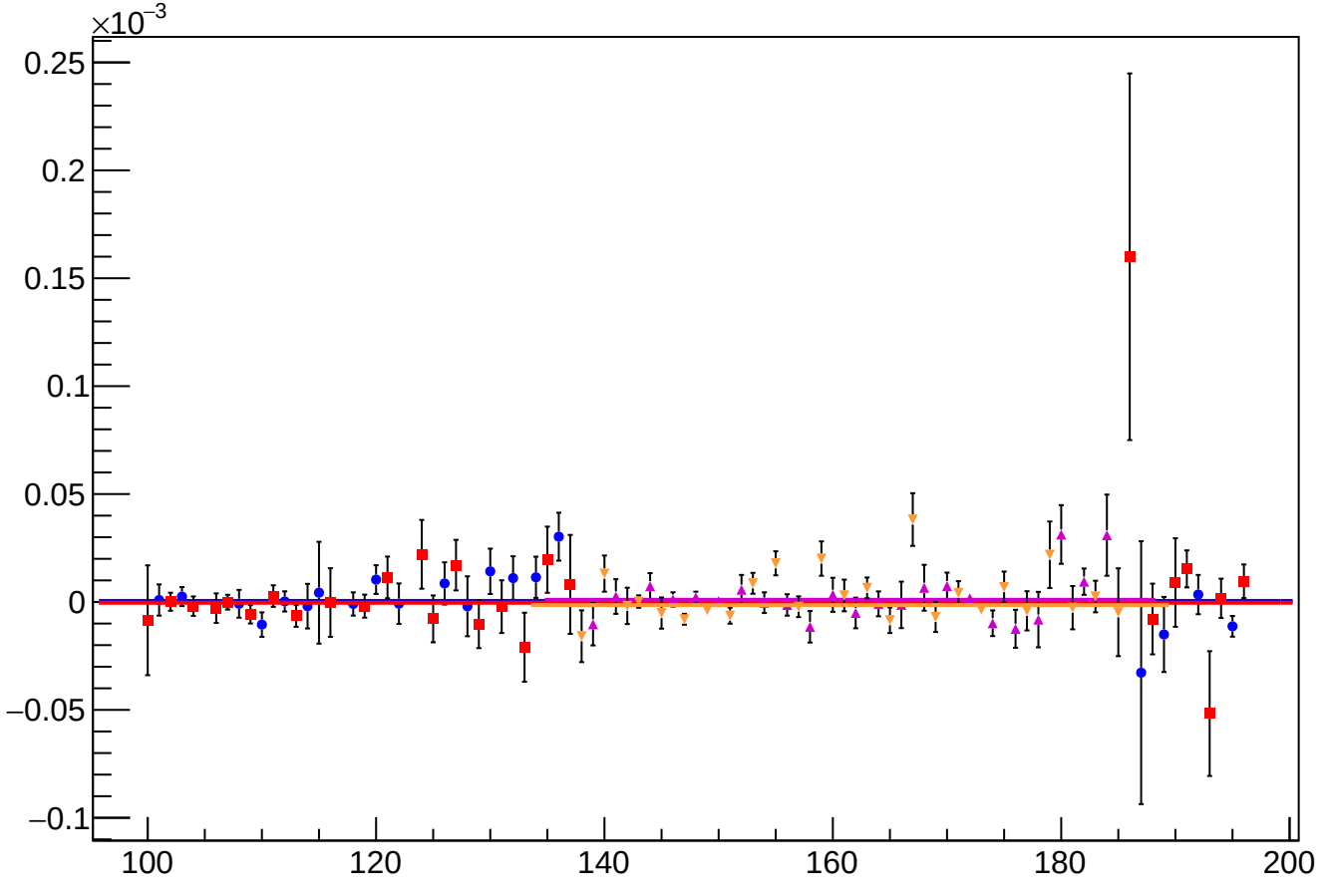
Left: 120.346+/-0.015 $\chi^2$/NDF: 6935453.1/47

Right: 70.237+/-0.013 $\chi^2$/NDF: 11490669.4/45

In: 89.492+/-0.014 $\chi^2$/NDF:11855061.2/42

Out: 93.542+/-0.014 $\chi^2$/NDF:12912712.6/50

All: 91.560+/-0.010 $\chi^2$/NDF: 24810397.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:60.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.5/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 88.2/47

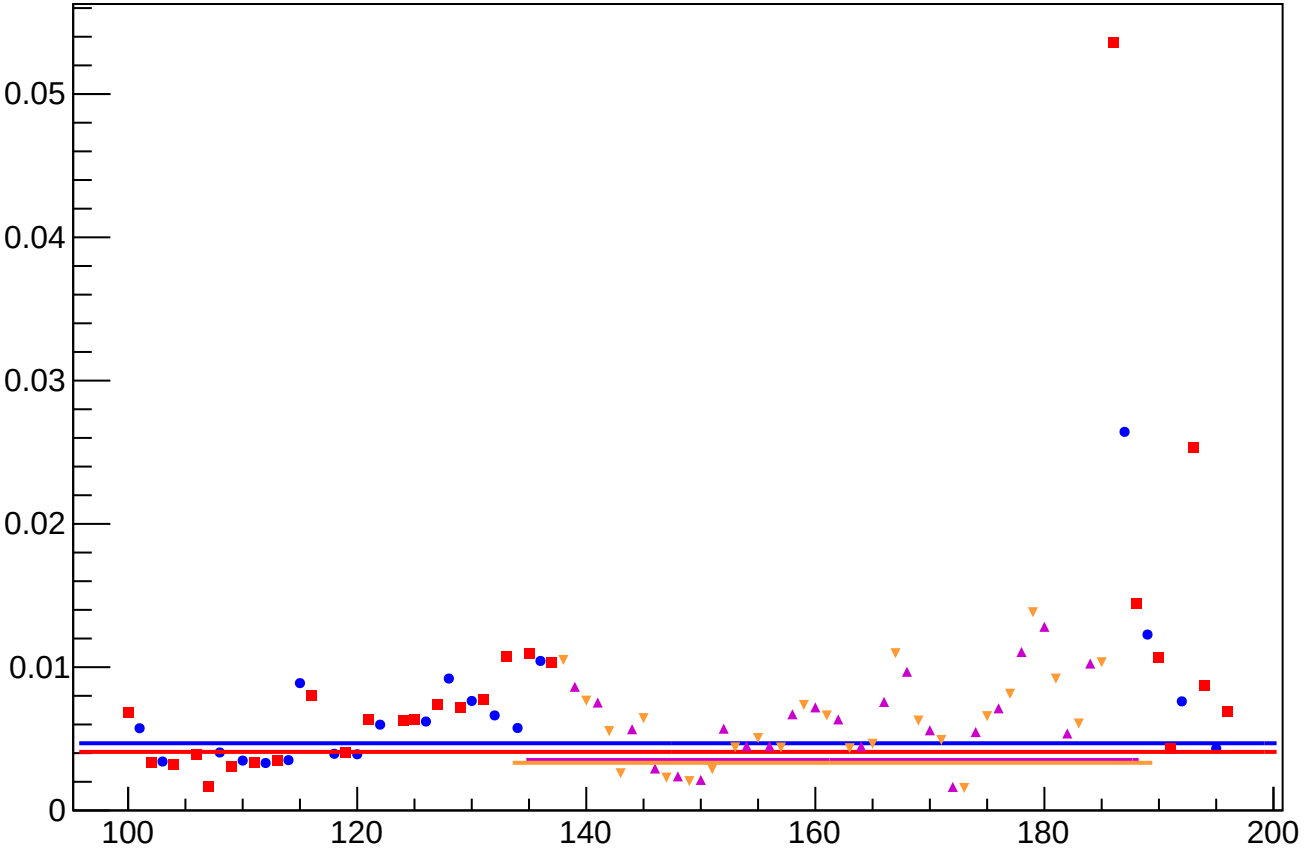
Right: -0.000+/-0.000 $\chi^2$/NDF: 52.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:50.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:87.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 140.6/93

asym_sam4_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.005+/-0.000 $\chi^2$/NDF: 2591341.7/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:10486084.0/24

Right Out: 0.004+/-0.000 $\chi^2$/NDF: 6643258.3/25

Left In: 0.004+/-0.000 $\chi^2$/NDF:9426441.5/22

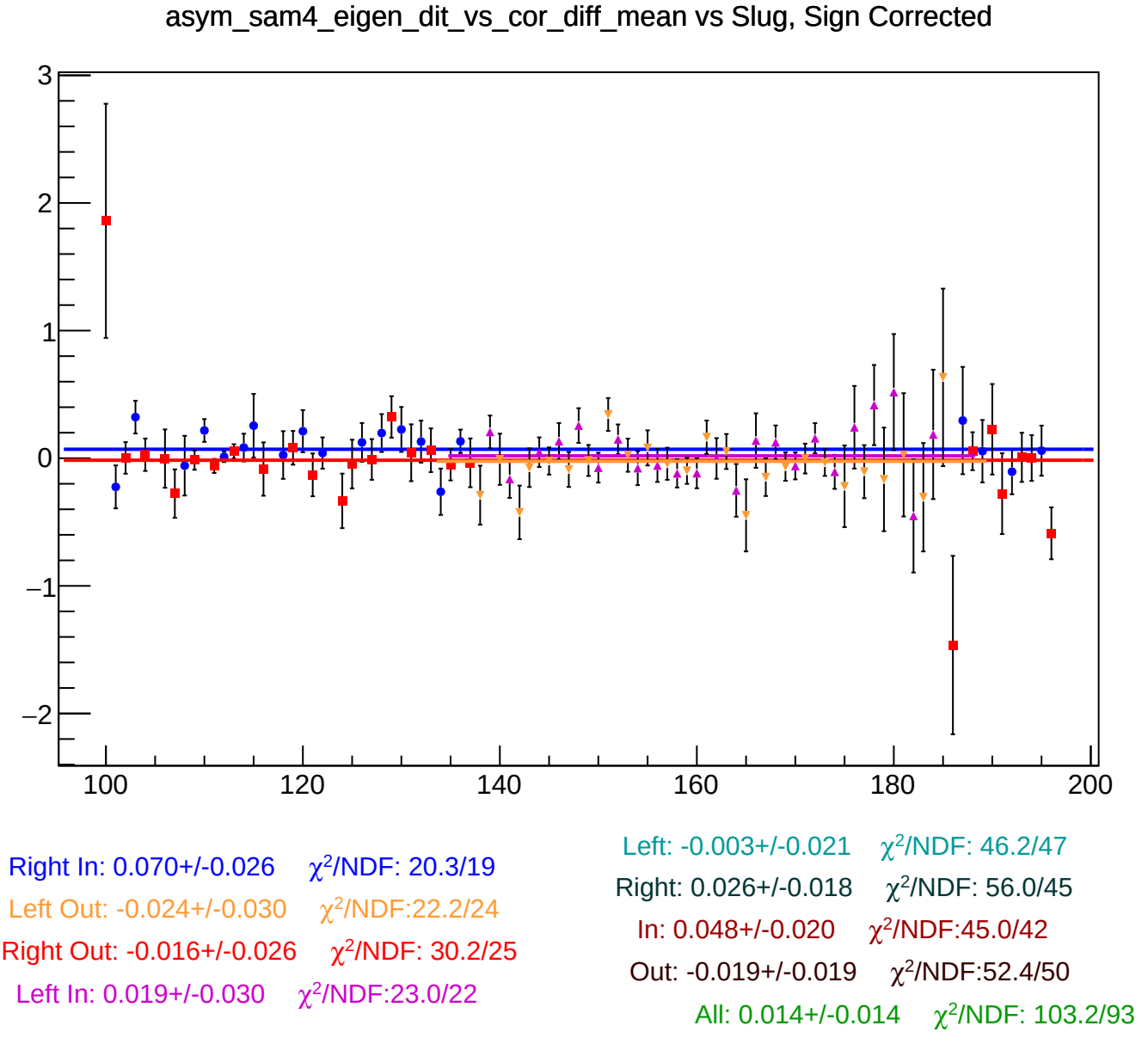
Left: 0.003+/-0.000 $\chi^2$/NDF: 19955580.6/47

Right: 0.004+/-0.000 $\chi^2$/NDF: 9387020.7/45

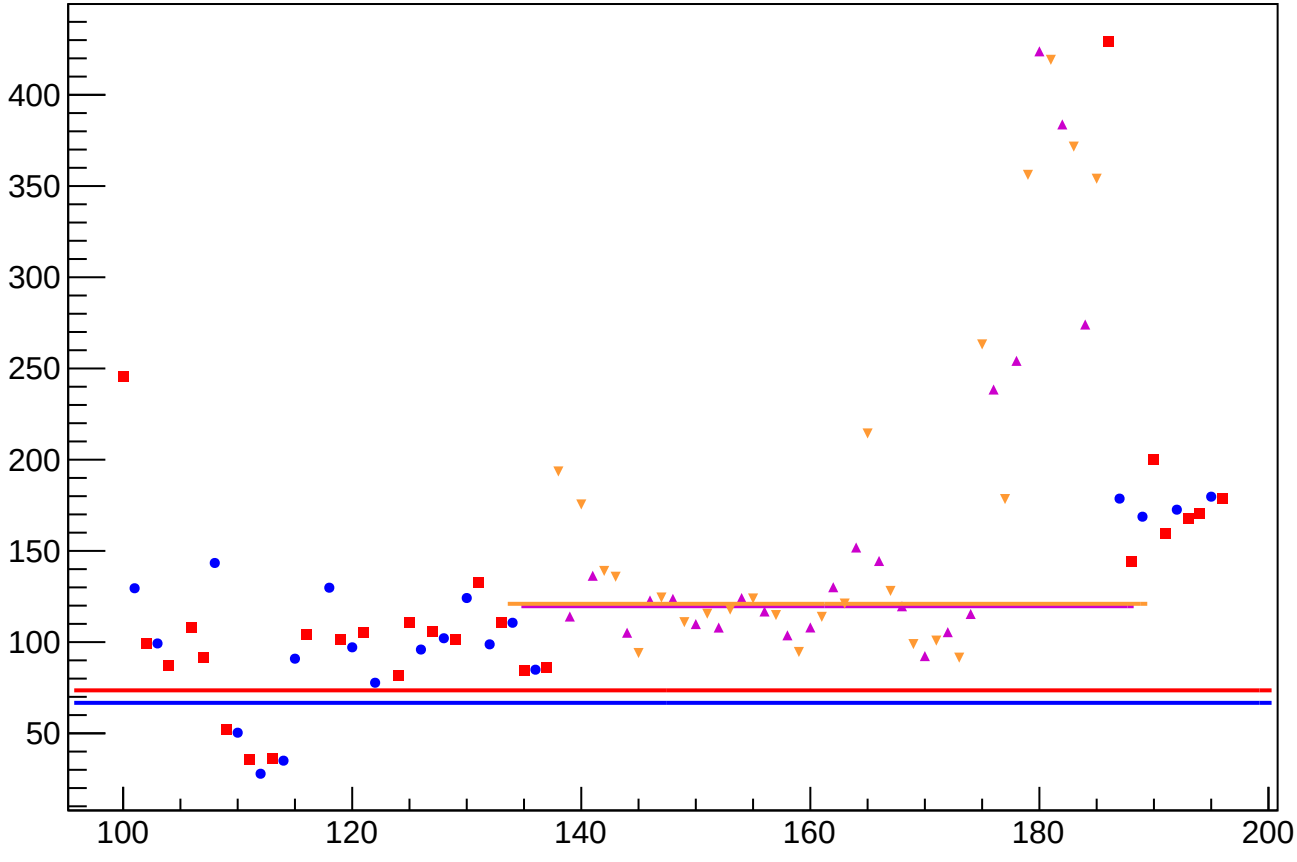
In: 0.004+/-0.000 $\chi^2$/NDF:12749453.7/42

Out: 0.004+/-0.000 $\chi^2$/NDF:17535804.3/50

All: 0.004+/-0.000 $\chi^2$/NDF: 30408388.5/93


asym_sam4_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: 0.070+/-0.026 χ²/NDF: 20.3/19
Left Out: -0.024+/-0.030 χ²/NDF:22.2/24
Right Out: -0.016+/-0.026 χ²/NDF: 30.2/25
Left In: 0.019+/-0.030 χ²/NDF:23.0/22
Left: -0.003+/-0.021 χ²/NDF: 46.2/47
Right: 0.026+/-0.018 χ²/NDF: 56.0/45
In: 0.048+/-0.020 χ²/NDF:45.0/42
Out: -0.019+/-0.019 χ²/NDF:52.4/50
All: 0.014+/-0.014 χ²/NDF: 103.2/93

asym_sam4_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.714+/-0.019 $\chi^2$/NDF: 5516998.9/19

Left Out: 121.000+/-0.021 $\chi^2$/NDF:4095210.5/24

Right Out: 73.558+/-0.018 $\chi^2$/NDF: 5904439.4/25

Left In: 119.680+/-0.021 $\chi^2$/NDF:2838196.2/22

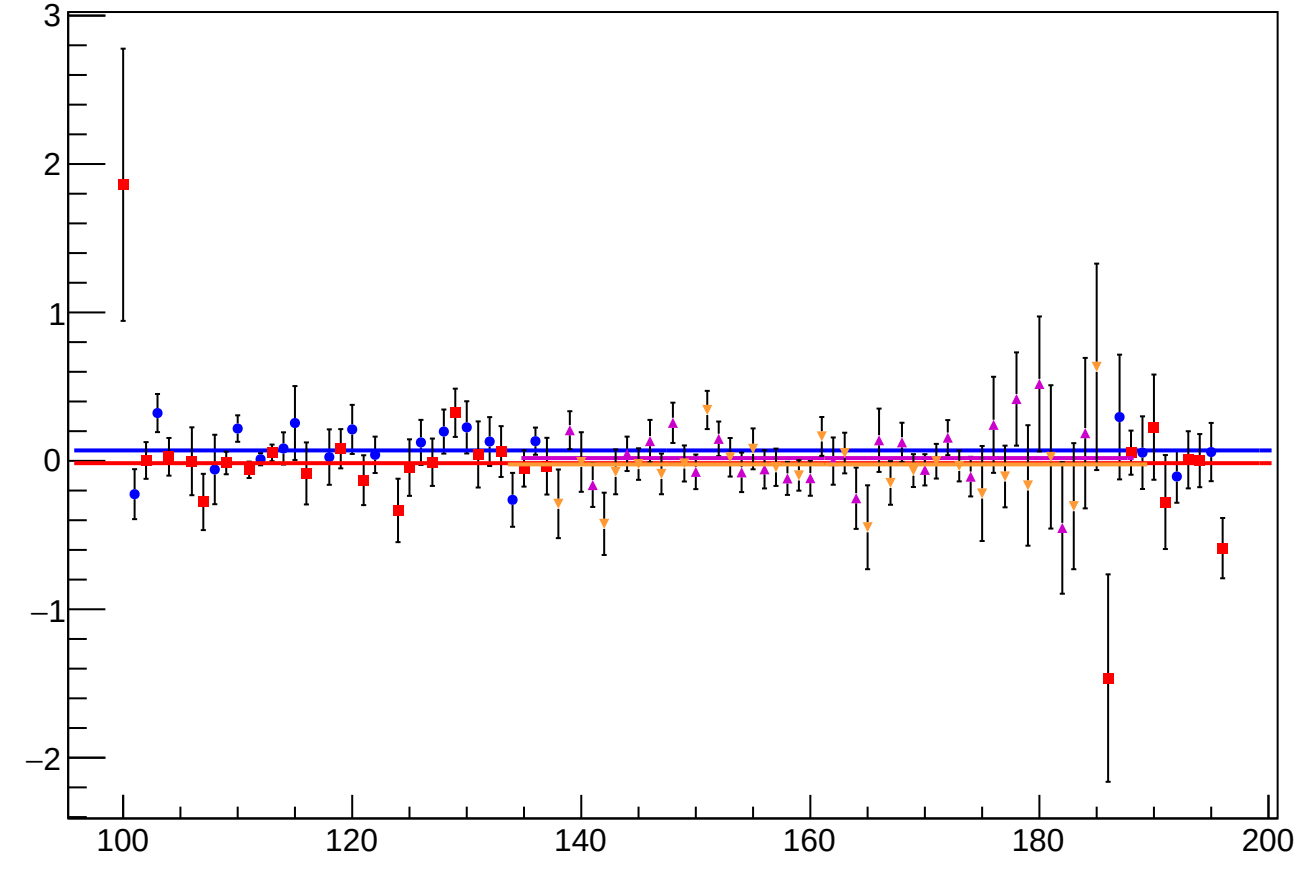
Left: 120.347+/-0.015 $\chi^2$/NDF: 6935335.2/47

Right: 70.235+/-0.013 $\chi^2$/NDF: 11491357.9/45

In: 89.491+/-0.014 $\chi^2$/NDF:11855765.4/42

Out: 93.540+/-0.014 $\chi^2$/NDF:12913393.4/50

All: 91.558+/-0.010 $\chi^2$/NDF: 24811790.5/93




Right In: 0.070+/-0.026 $\chi^2$/NDF: 20.3/19

Left Out: -0.024+/-0.030 $\chi^2$/NDF:22.2/24

Right Out: -0.016+/-0.026 $\chi^2$/NDF: 30.2/25

Left In: 0.019+/-0.030 $\chi^2$/NDF:23.0/22

Left: -0.003+/-0.021 $\chi^2$/NDF: 46.2/47

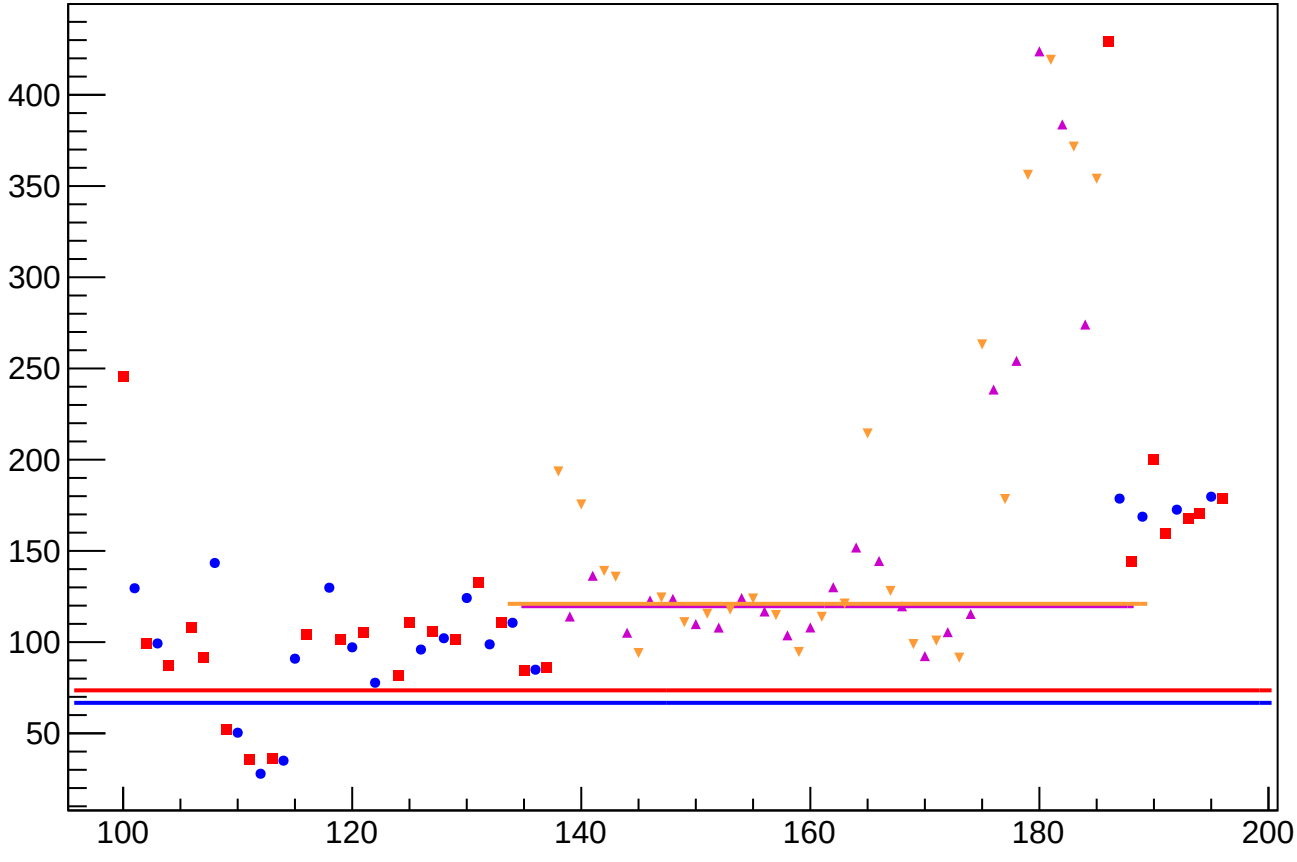
Right: 0.026+/-0.018 $\chi^2$/NDF: 56.0/45

In: 0.048+/-0.020 $\chi^2$/NDF:45.0/42

Out: -0.019+/-0.019 $\chi^2$/NDF:52.4/50

All: 0.014+/-0.014 $\chi^2$/NDF: 103.2/93

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 66.714+/-0.019 $\chi^2$/NDF: 5516998.9/19

Left Out: 121.000+/-0.021 $\chi^2$/NDF:4095210.5/24

Right Out: 73.558+/-0.018 $\chi^2$/NDF: 5904439.4/25

Left In: 119.680+/-0.021 $\chi^2$/NDF:2838196.2/22

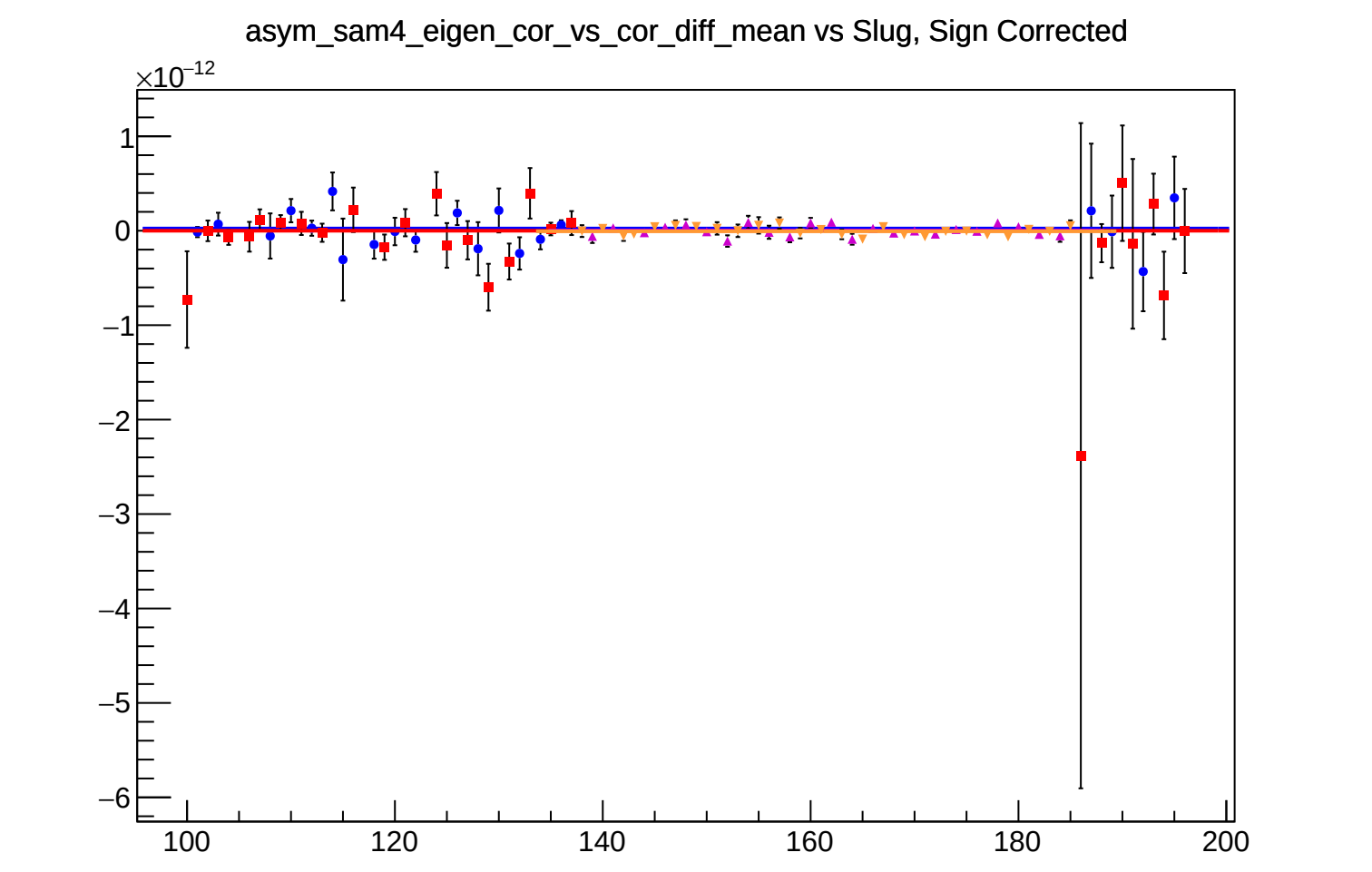
Left: 120.347+/-0.015 $\chi^2$/NDF: 6935335.2/47

Right: 70.235+/-0.013 $\chi^2$/NDF: 11491357.9/45

In: 89.491+/-0.014 $\chi^2$/NDF:11855765.4/42

Out: 93.540+/-0.014 $\chi^2$/NDF:12913393.4/50

All: 91.558+/-0.010 $\chi^2$/NDF: 24811790.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:22.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.6/22

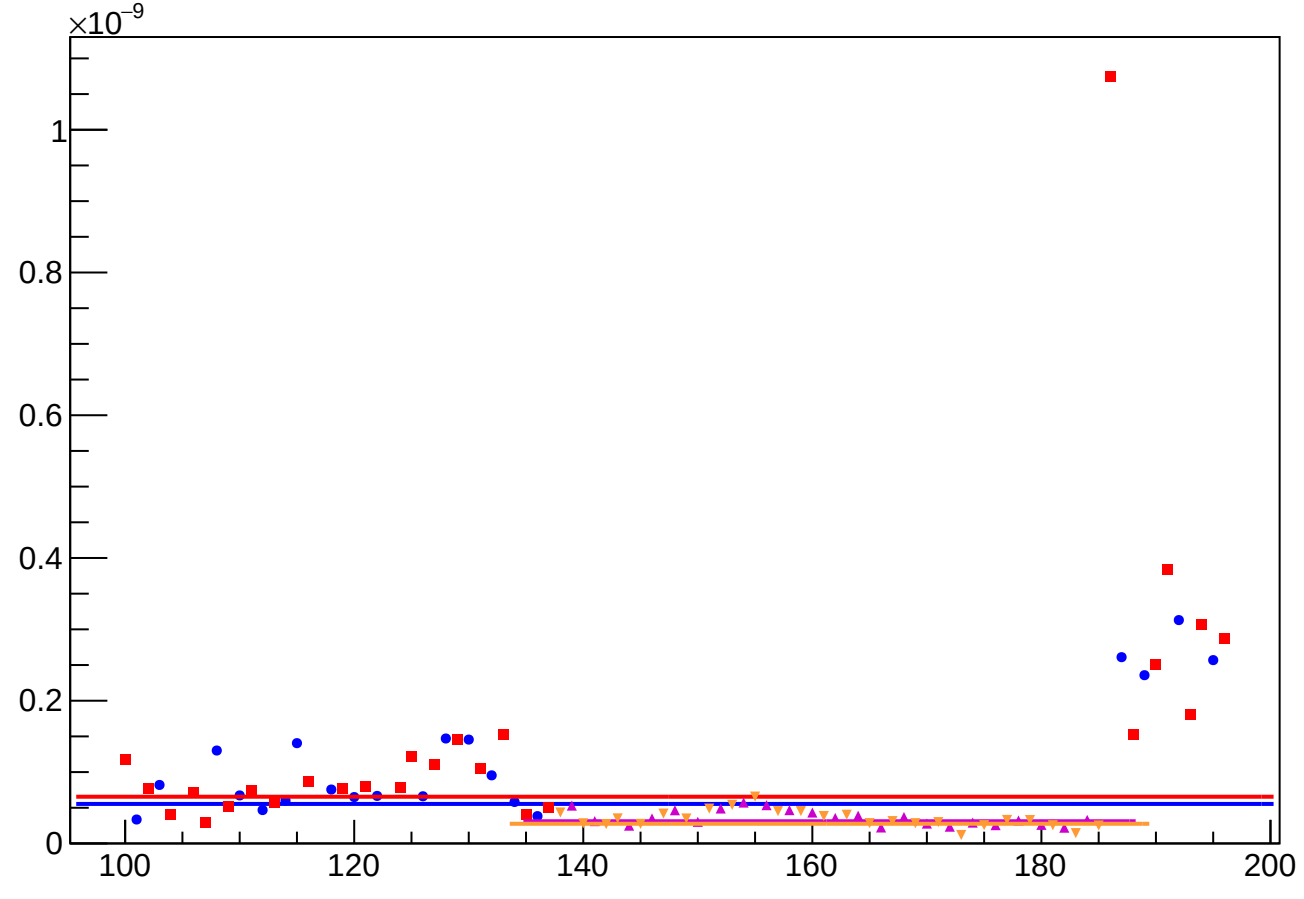
Left: -0.000+/-0.000 $\chi^2$/NDF: 50.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:46.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:50.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 97.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3460245.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3691738.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3874432.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1937733.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5803061.5/47

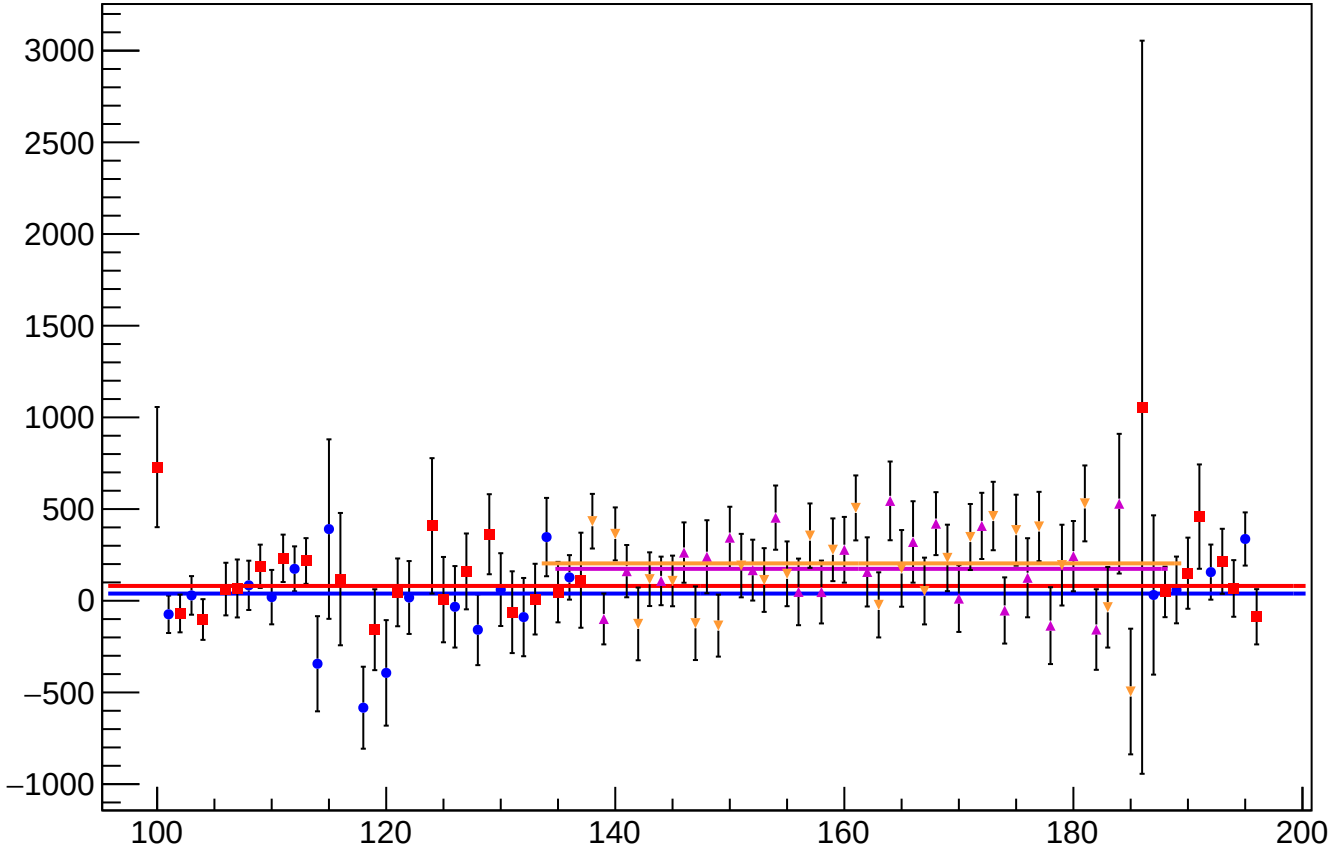
Right: 0.000+/-0.000 $\chi^2$/NDF: 7472598.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:6956842.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10884143.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 18001667.2/93

# reg_asym_sam5_mean vs Slug, Sign Corrected




Right In: 39.198+/-36.725 $\chi^2$/NDF: 24.3/19

Left Out: 203.760+/-35.878 $\chi^2$/NDF:32.9/24

Right Out: 80.801+/-33.229 $\chi^2$/NDF: 20.7/25

Left In: 173.974+/-37.405 $\chi^2$/NDF:24.5/22

Left: 189.488+/-25.893 $\chi^2$/NDF: 57.7/47

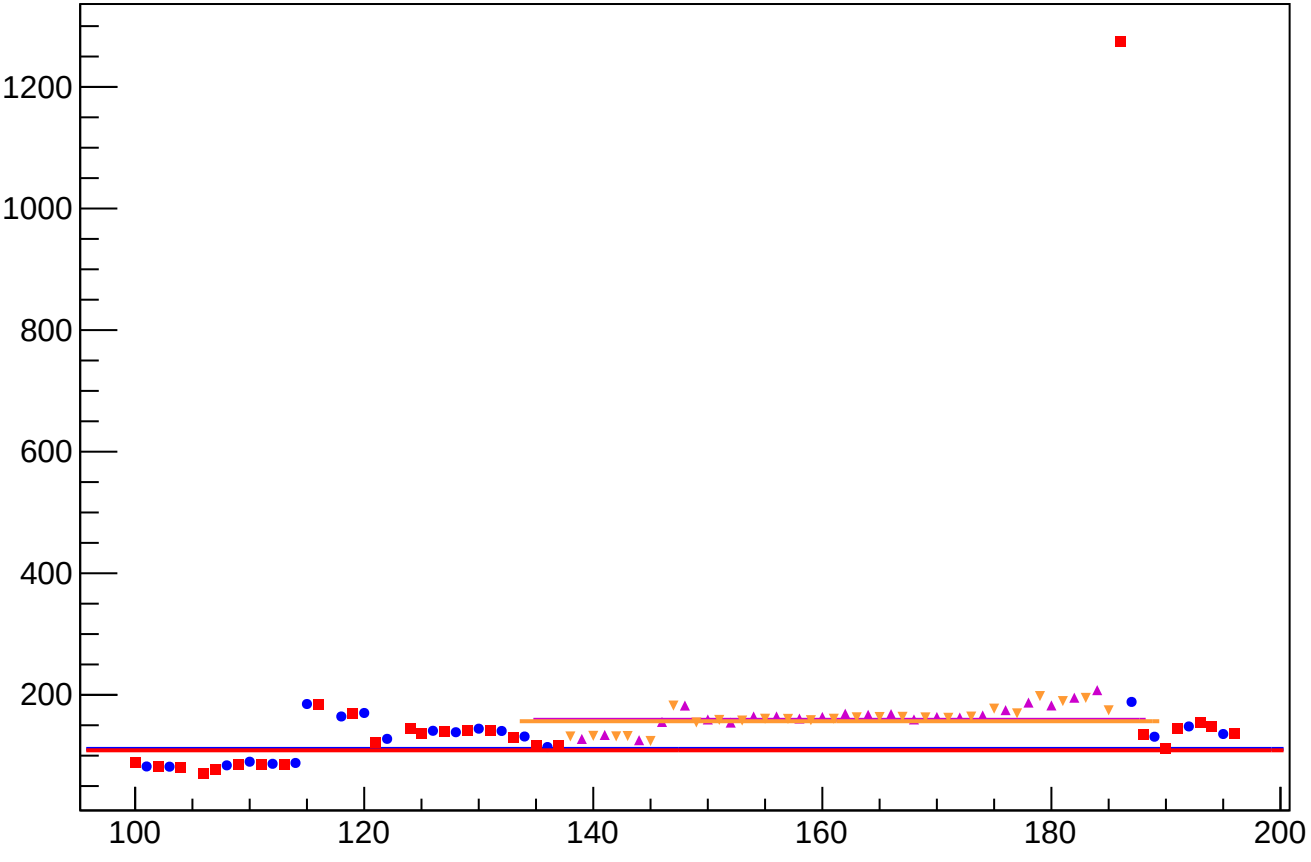
Right: 62.073+/-24.640 $\chi^2$/NDF: 45.7/45

In: 105.350+/-26.206 $\chi^2$/NDF:55.4/42

Out: 137.575+/-24.379 $\chi^2$/NDF:59.9/50

All: 122.624+/-17.850 $\chi^2$/NDF: 116.1/93

# reg_asym_sam5_rms vs Slug, Sign Corrected




Right In: 111.079+/-0.026 $\chi^2$/NDF: 1244702.9/19

Left Out: 156.638+/-0.025 $\chi^2$/NDF:582414.4/24

Right Out: 108.811+/-0.023 $\chi^2$/NDF: 2271971.4/25

Left In: 158.952+/-0.026 $\chi^2$/NDF:511321.2/22

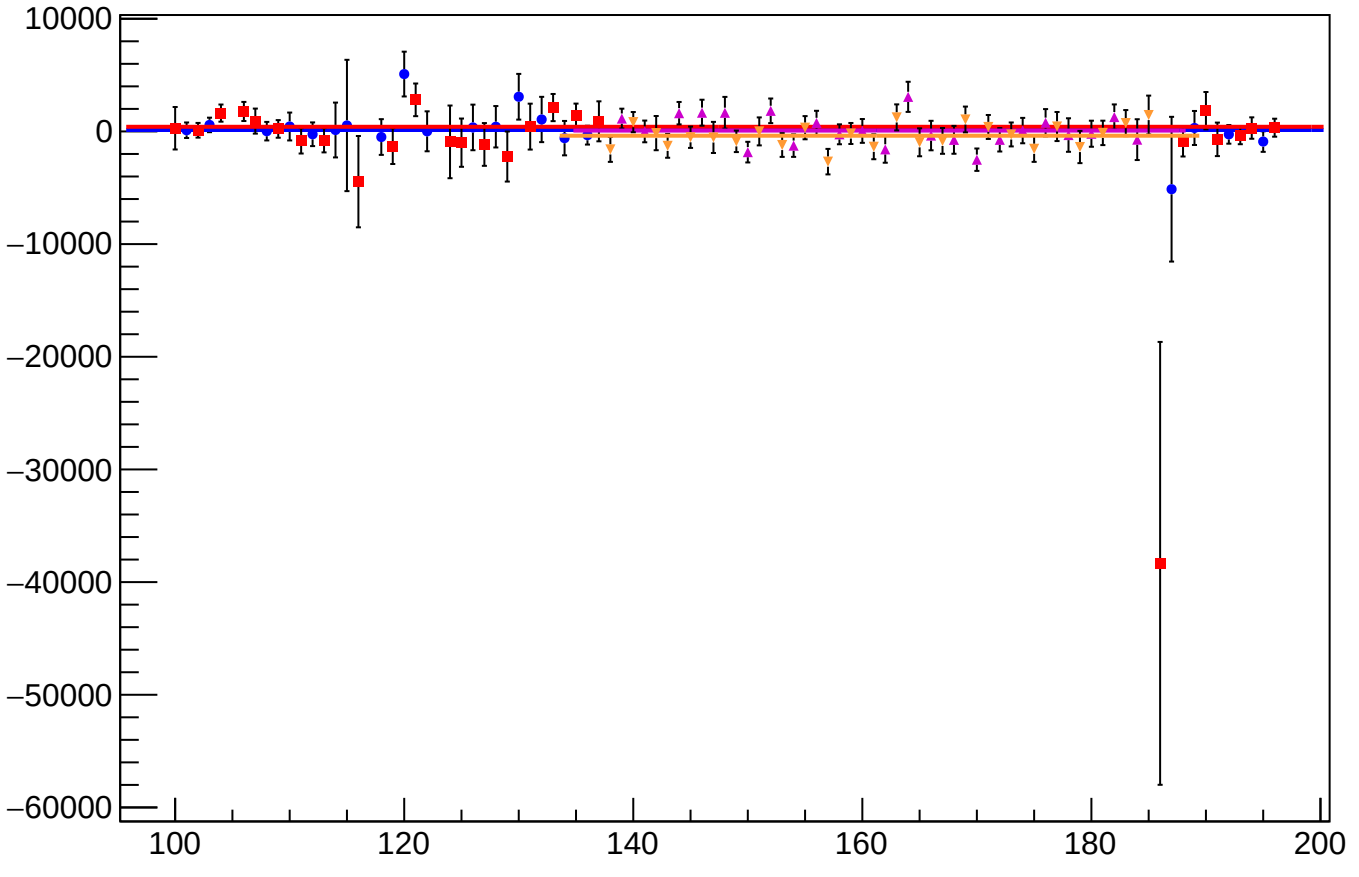
Left: 157.746+/-0.018 $\chi^2$/NDF: 1097721.4/47

Right: 109.831+/-0.017 $\chi^2$/NDF: 3520868.2/45

In: 134.576+/-0.019 $\chi^2$/NDF:3424090.8/42

Out: 130.894+/-0.017 $\chi^2$/NDF:4767457.6/50

All: 132.602+/-0.013 $\chi^2$/NDF: 8212714.2/93




Right In: 127.606+/-260.488 $\chi^2$/NDF: 12.2/19

Left Out: -380.690+/-224.554 $\chi^2$/NDF:18.7/24

Right Out: 412.703+/-227.035 $\chi^2$/NDF: 26.3/25

Left In: 74.440+/-229.788 $\chi^2$/NDF:33.1/22

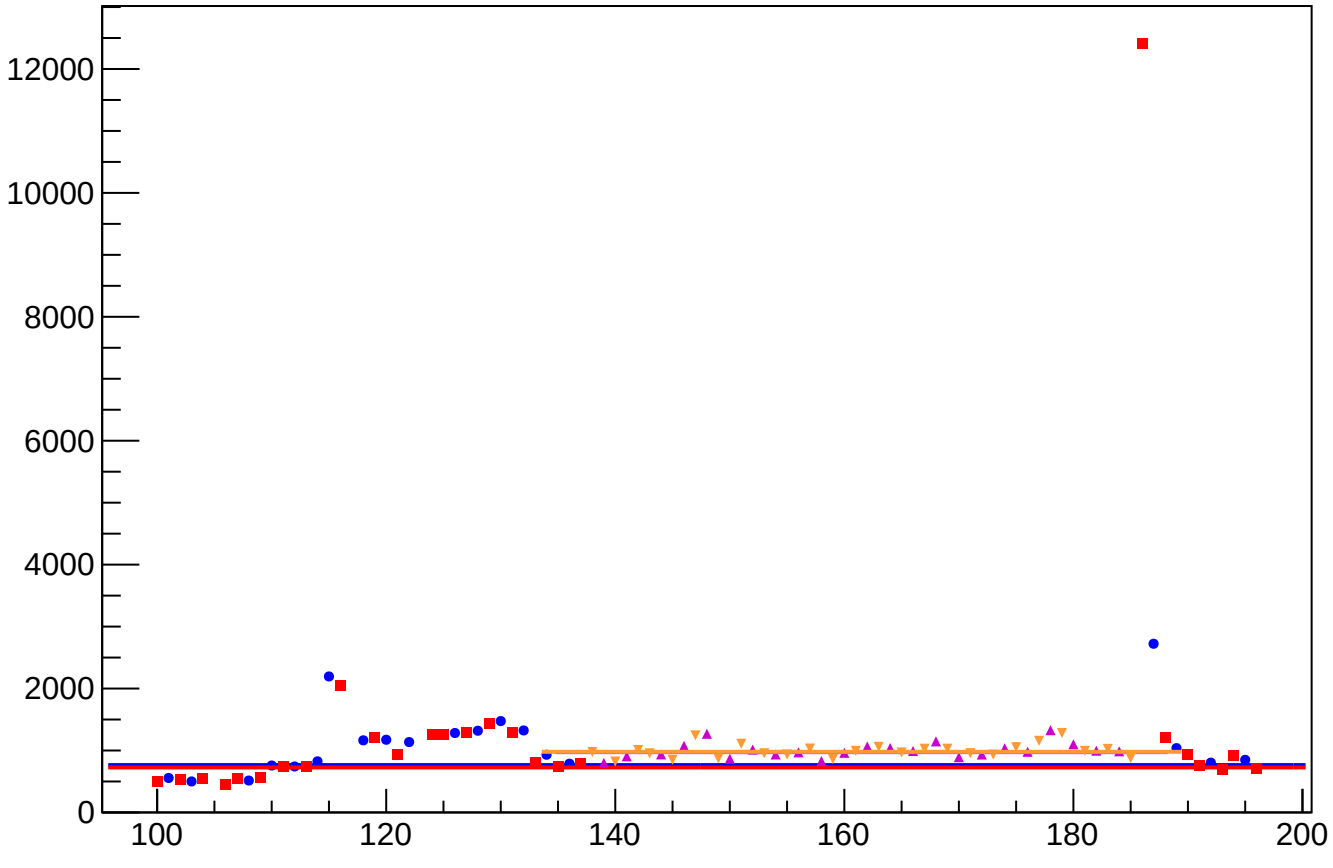
Left: -158.368+/-160.602 $\chi^2$/NDF: 53.8/47

Right: 289.625+/-171.151 $\chi^2$/NDF: 39.2/45

In: 97.707+/-172.321 $\chi^2$/NDF:45.2/42

Out: 11.648+/-159.653 $\chi^2$/NDF:51.2/50

All: 51.398+/-117.115 $\chi^2$/NDF: 96.6/93




Right In: 764.328+/-0.184 $\chi^2$/NDF: 2136780.6/19

Left Out: 979.111+/-0.159 $\chi^2$/NDF:429795.3/24

Right Out: 726.361+/-0.161 $\chi^2$/NDF: 2971177.0/25

Left In: 973.818+/-0.162 $\chi^2$/NDF:498612.7/22

Left: 976.526+/-0.114 $\chi^2$/NDF: 928951.0/47

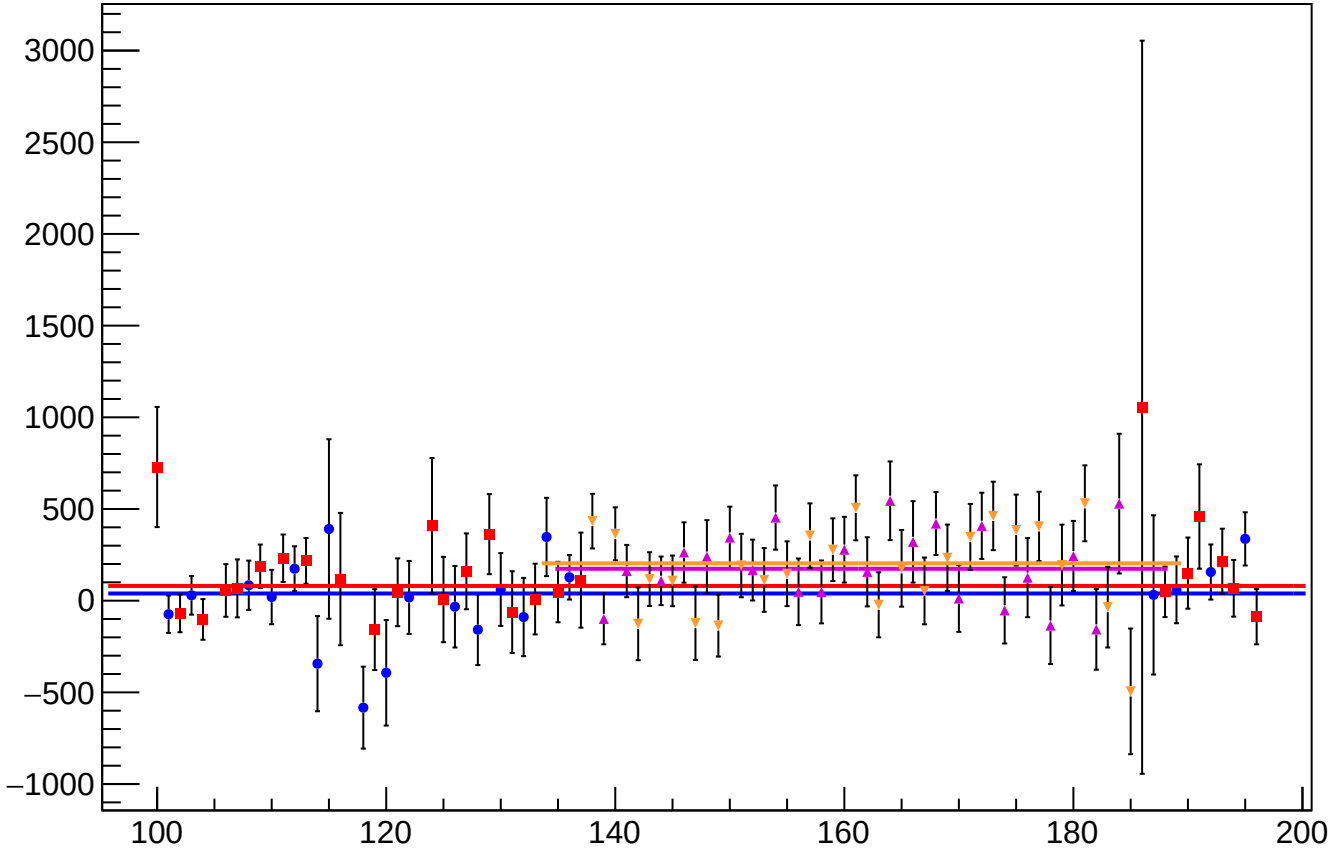
Right: 742.752+/-0.121 $\chi^2$/NDF: 5132103.6/45

In: 882.139+/-0.122 $\chi^2$/NDF:3362845.5/42

Out: 854.125+/-0.113 $\chi^2$/NDF:4653952.8/50

All: 867.065+/-0.083 $\chi^2$/NDF: 8045241.9/93

# cor_asym_sam5_mean vs Slug, Sign Corrected




Right In: 39.191+/-36.725 $\chi^2$/NDF: 24.3/19

Left Out: 203.766+/-35.878 $\chi^2$/NDF:32.9/24

Right Out: 80.392+/-33.231 $\chi^2$/NDF: 20.7/25

Left In: 173.978+/-37.405 $\chi^2$/NDF:24.5/22

Left: 189.493+/-25.893 $\chi^2$/NDF: 57.7/47

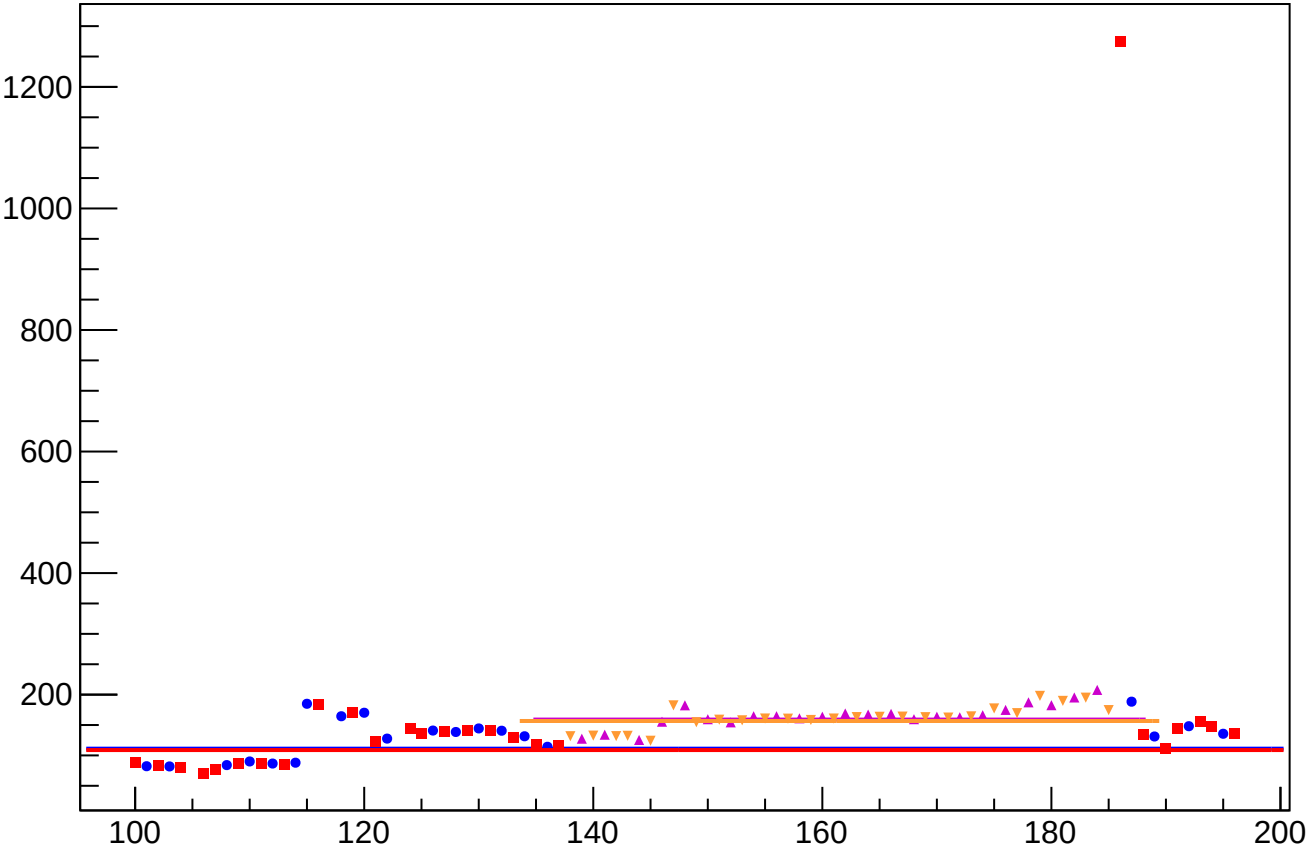
Right: 61.844+/-24.641 $\chi^2$/NDF: 45.7/45

In: 105.348+/-26.206 $\chi^2$/NDF:55.4/42

Out: 137.361+/-24.380 $\chi^2$/NDF:59.9/50

All: 122.509+/-17.850 $\chi^2$/NDF: 116.1/93

# cor_asym_sam5_rms vs Slug, Sign Corrected




Right In: 111.079+/-0.026 $\chi^2$/NDF: 1244702.0/19

Left Out: 156.638+/-0.025 $\chi^2$/NDF:582414.5/24

Right Out: 108.793+/-0.023 $\chi^2$/NDF: 2274760.0/25

Left In: 158.952+/-0.026 $\chi^2$/NDF:511321.3/22

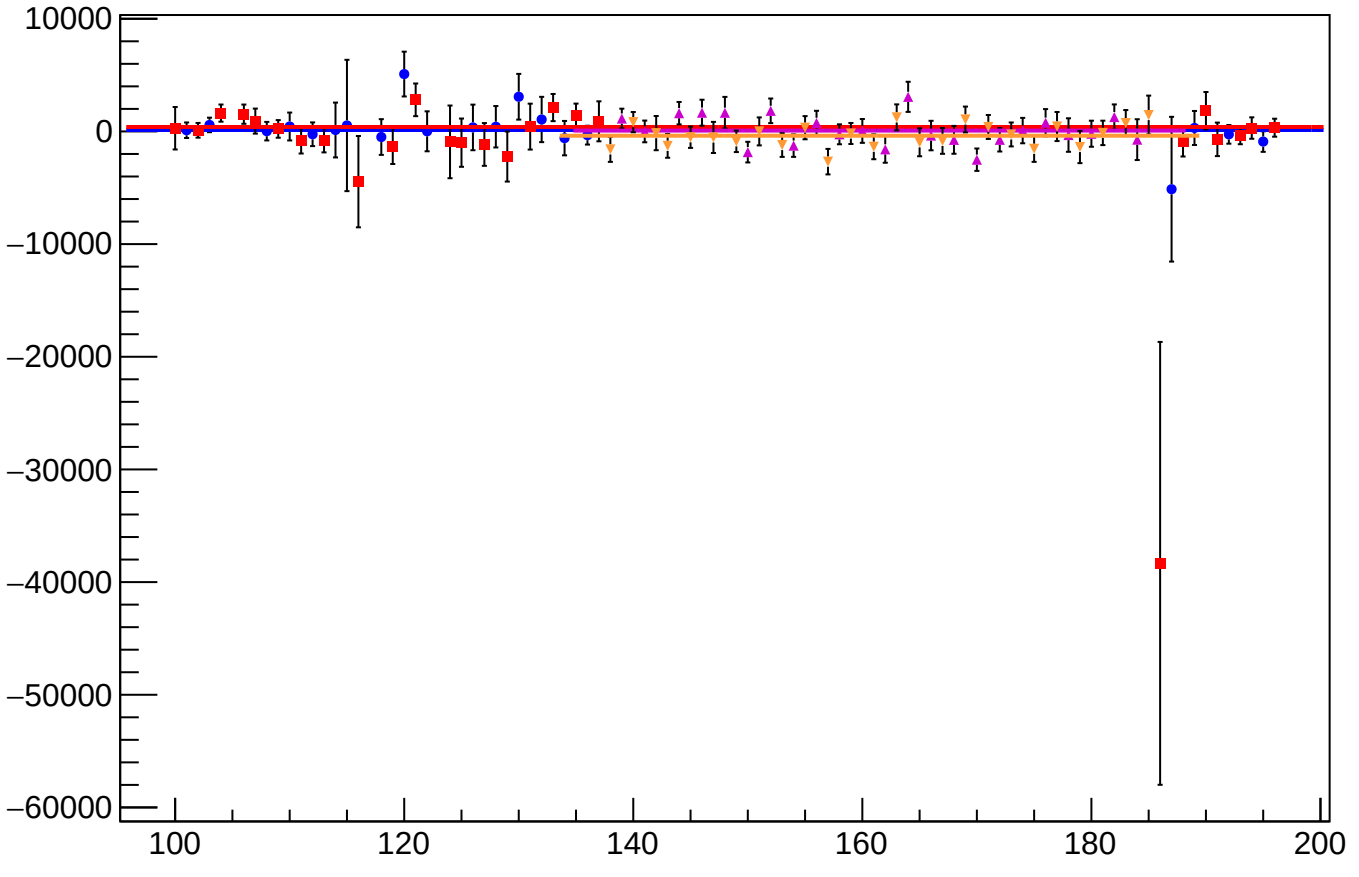
Left: 157.746+/-0.018 $\chi^2$/NDF: 1097721.5/47

Right: 109.822+/-0.017 $\chi^2$/NDF: 3523720.1/45

In: 134.576+/-0.019 $\chi^2$/NDF:3424088.8/42

Out: 130.886+/-0.017 $\chi^2$/NDF:4771538.0/50

All: 132.598+/-0.013 $\chi^2$/NDF: 8216884.8/93




Right In: 127.608+/-260.488 $\chi^2$/NDF: 12.2/19

Left Out: -380.678+/-224.554 $\chi^2$/NDF:18.7/24

Right Out: 394.286+/-227.141 $\chi^2$/NDF: 25.5/25

Left In: 74.438+/-229.788 $\chi^2$/NDF:33.1/22

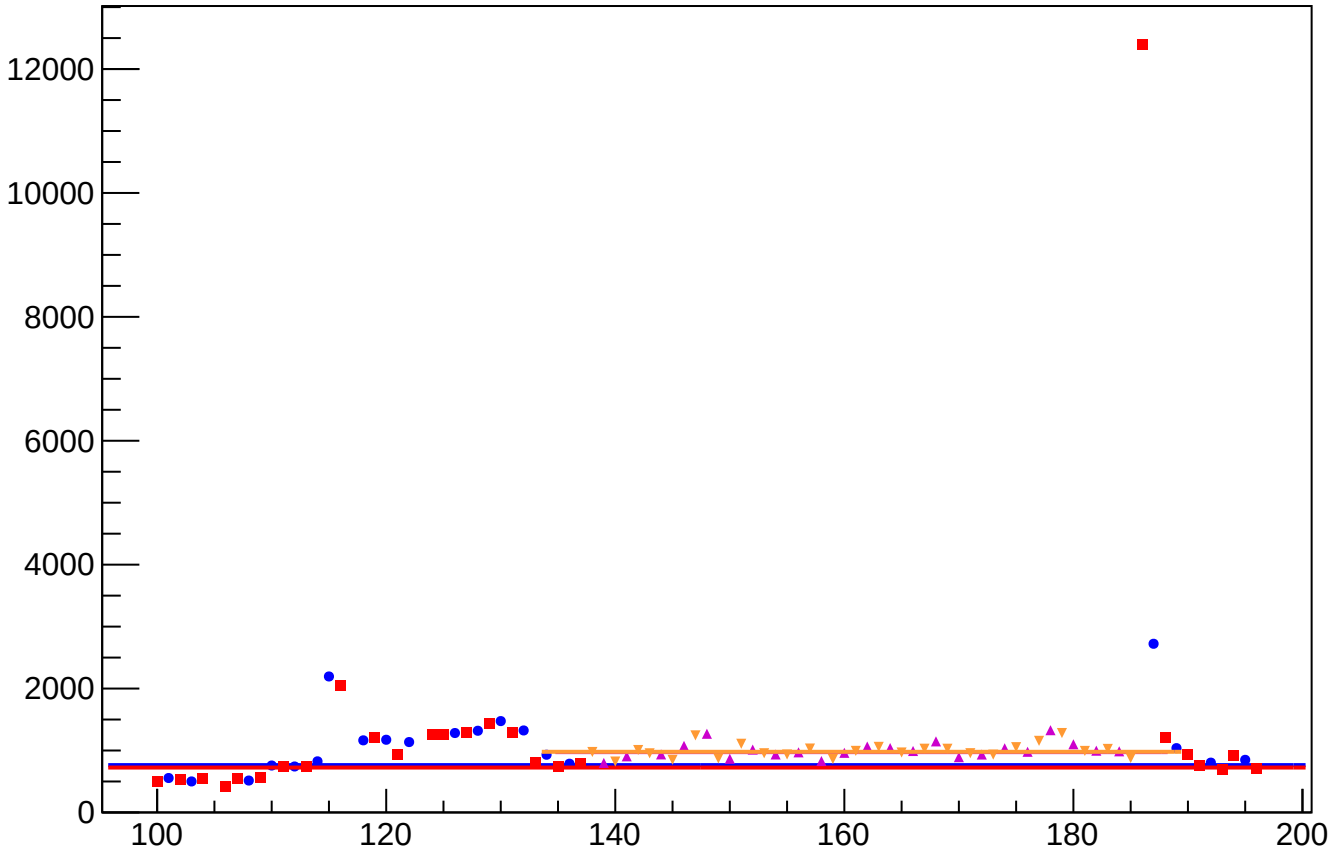
Left: -158.362+/-160.602 $\chi^2$/NDF: 53.8/47

Right: 279.099+/-171.197 $\chi^2$/NDF: 38.2/45

In: 97.707+/-172.321 $\chi^2$/NDF:45.2/42

Out: 2.365+/-159.690 $\chi^2$/NDF:50.1/50

All: 46.414+/-117.129 $\chi^2$/NDF: 95.5/93




Right In: 764.328+/-0.184 $\chi^2$/NDF: 2136783.1/19

Left Out: 979.112+/-0.159 $\chi^2$/NDF:429793.5/24

Right Out: 724.893+/-0.161 $\chi^2$/NDF: 3007084.6/25

Left In: 973.818+/-0.162 $\chi^2$/NDF:498615.1/22

Left: 976.526+/-0.114 $\chi^2$/NDF: 928951.7/47

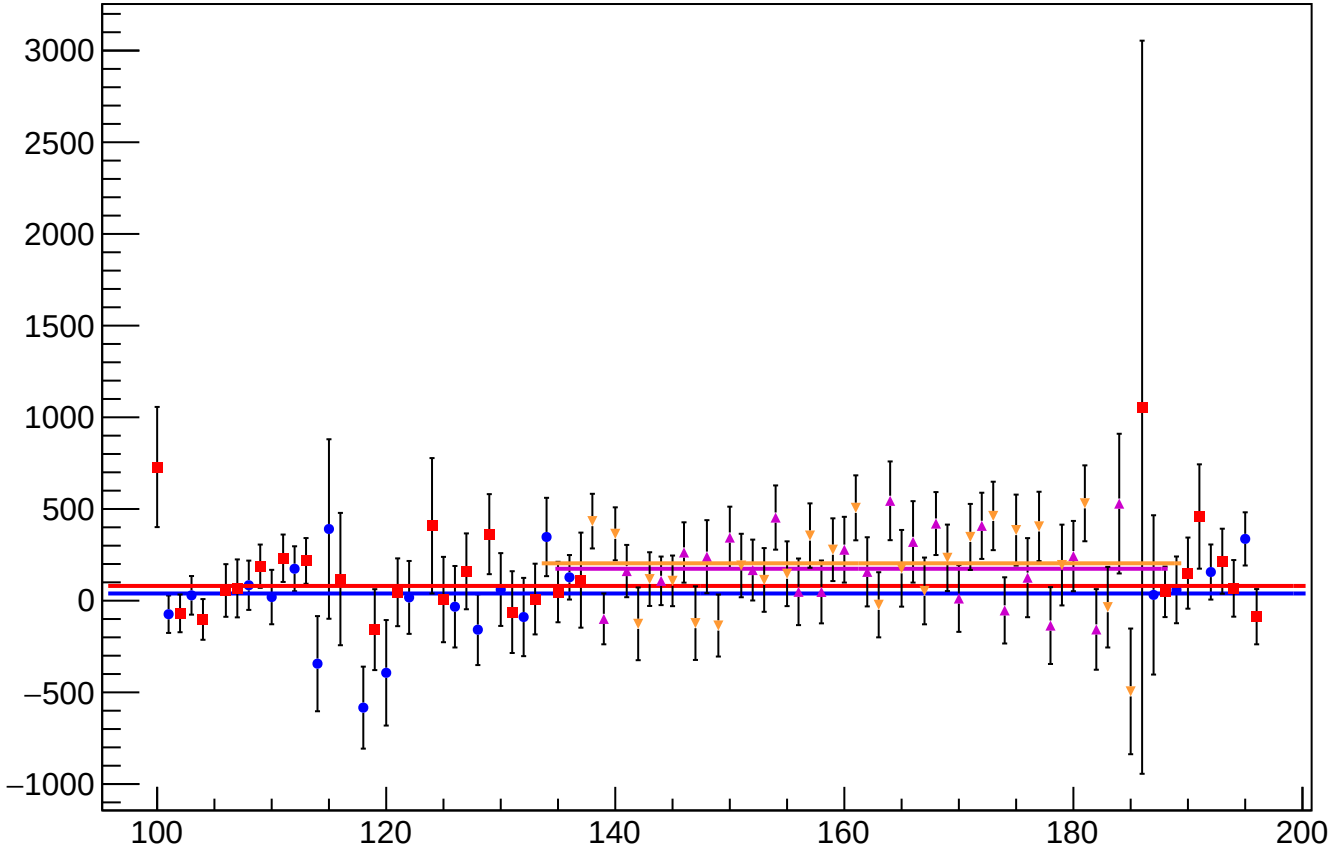
Right: 741.926+/-0.121 $\chi^2$/NDF: 5169906.7/45

In: 882.139+/-0.122 $\chi^2$/NDF:3362853.0/42

Out: 853.458+/-0.113 $\chi^2$/NDF:4703865.4/50

All: 866.709+/-0.083 $\chi^2$/NDF: 8096525.1/93

# eigen_cor_asym_sam5_mean vs Slug, Sign Corrected




Right In: 39.191+/-36.725 $\chi^2$/NDF: 24.3/19

Left Out: 203.766+/-35.878 $\chi^2$/NDF:32.9/24

Right Out: 80.392+/-33.231 $\chi^2$/NDF: 20.7/25

Left In: 173.978+/-37.405 $\chi^2$/NDF:24.5/22

Left: 189.493+/-25.893 $\chi^2$/NDF: 57.7/47

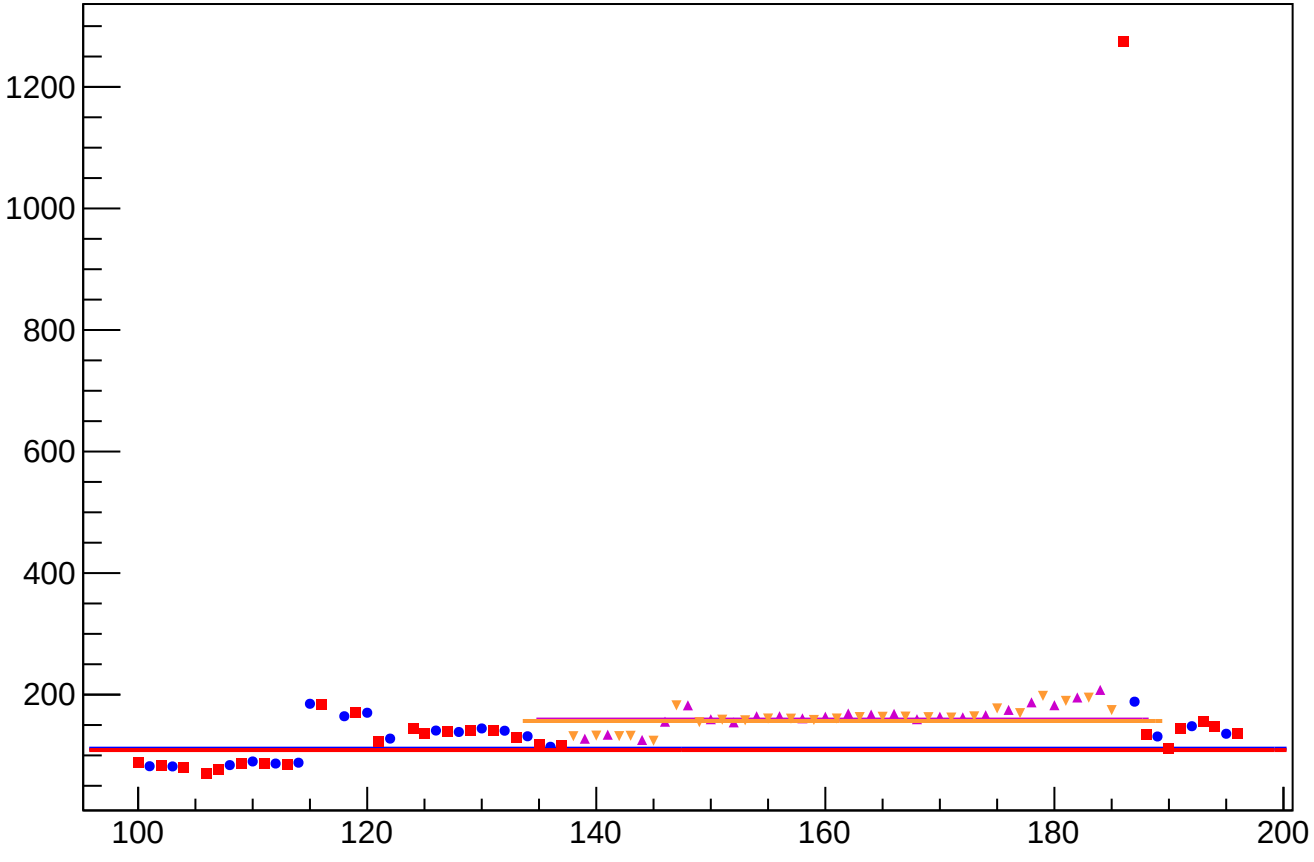
Right: 61.844+/-24.641 $\chi^2$/NDF: 45.7/45

In: 105.348+/-26.206 $\chi^2$/NDF:55.4/42

Out: 137.361+/-24.380 $\chi^2$/NDF:59.9/50

All: 122.509+/-17.850 $\chi^2$/NDF: 116.1/93

# eigen_cor_asym_sam5_rms vs Slug, Sign Corrected




Right In: 111.079+/-0.026 $\chi^2$/NDF: 1244702.0/19

Left Out: 156.638+/-0.025 $\chi^2$/NDF:582414.5/24

Right Out: 108.793+/-0.023 $\chi^2$/NDF: 2274760.0/25

Left In: 158.952+/-0.026 $\chi^2$/NDF:511321.3/22

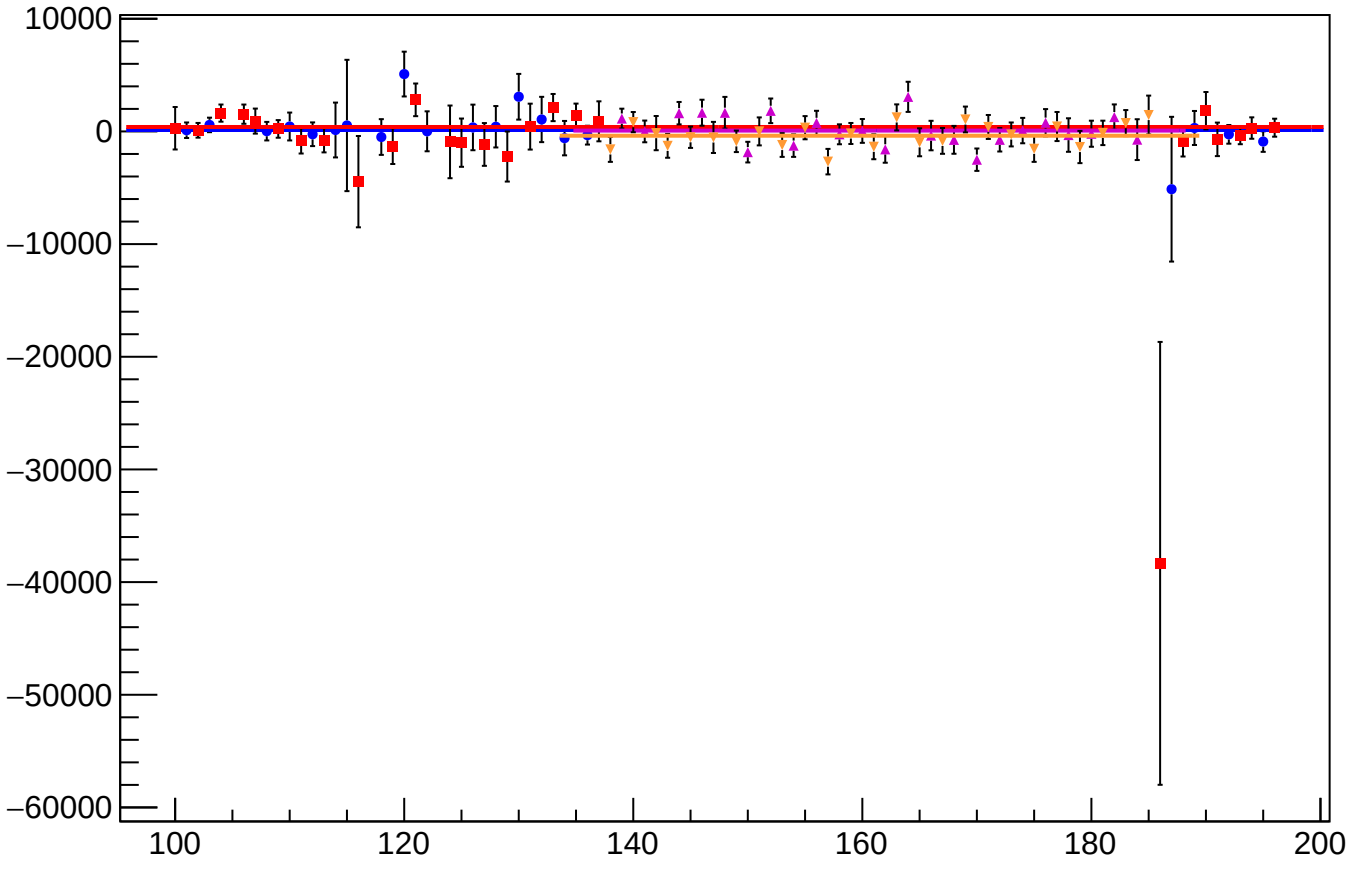
Left: 157.746+/-0.018 $\chi^2$/NDF: 1097721.5/47

Right: 109.822+/-0.017 $\chi^2$/NDF: 3523720.1/45

In: 134.576+/-0.019 $\chi^2$/NDF:3424088.8/42

Out: 130.886+/-0.017 $\chi^2$/NDF:4771538.0/50

All: 132.598+/-0.013 $\chi^2$/NDF: 8216884.8/93




Right In: 127.608+/-260.488 $\chi^2$/NDF: 12.2/19

Left Out: -380.678+/-224.554 $\chi^2$/NDF:18.7/24

Right Out: 394.286+/-227.141 $\chi^2$/NDF: 25.5/25

Left In: 74.438+/-229.788 $\chi^2$/NDF:33.1/22

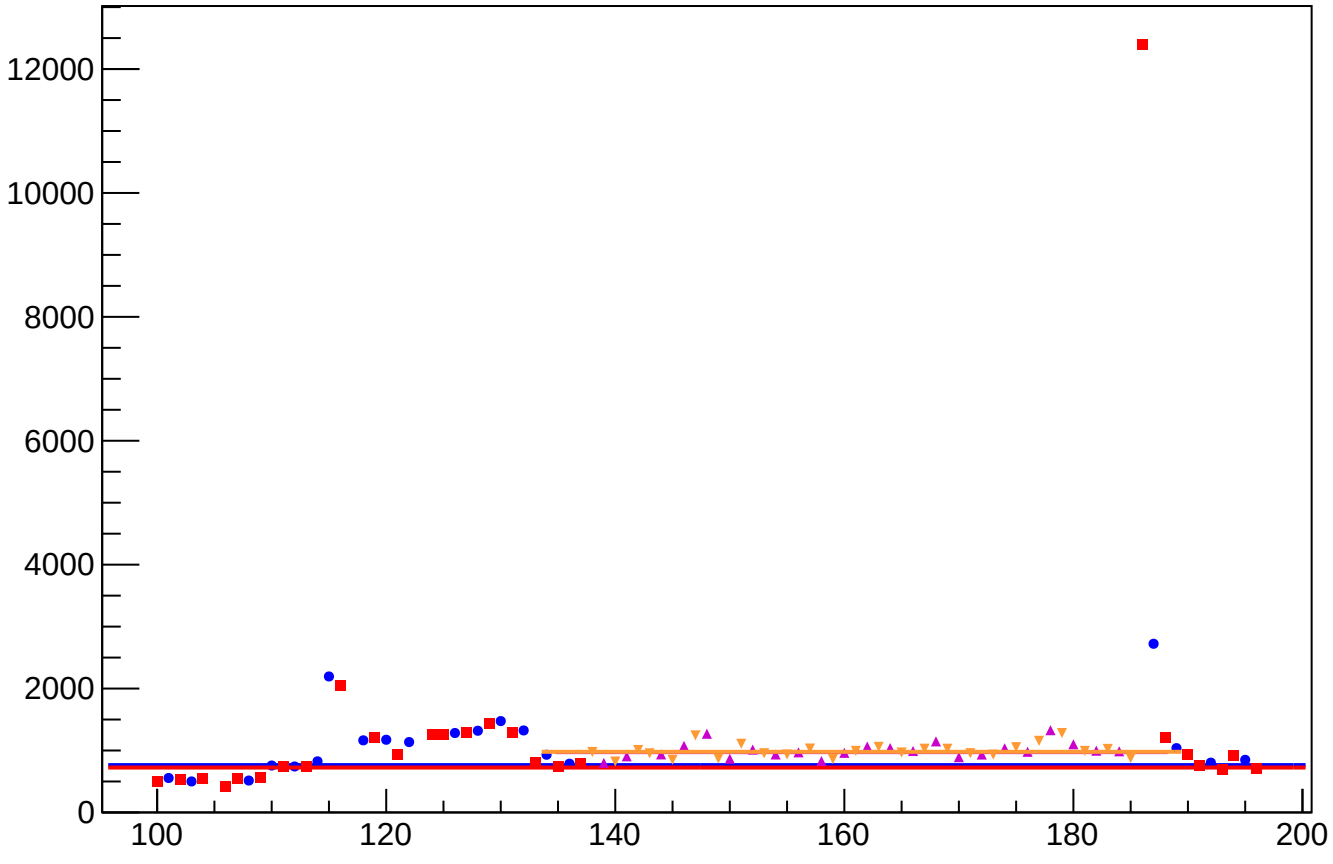
Left: -158.362+/-160.602 $\chi^2$/NDF: 53.8/47

Right: 279.099+/-171.197 $\chi^2$/NDF: 38.2/45

In: 97.707+/-172.321 $\chi^2$/NDF:45.2/42

Out: 2.365+/-159.690 $\chi^2$/NDF:50.1/50

All: 46.414+/-117.129 $\chi^2$/NDF: 95.5/93




Right In: 764.328+/-0.184 $\chi^2$/NDF: 2136783.1/19

Left Out: 979.112+/-0.159 $\chi^2$/NDF:429793.5/24

Right Out: 724.893+/-0.161 $\chi^2$/NDF: 3007084.6/25

Left In: 973.818+/-0.162 $\chi^2$/NDF:498615.1/22

Left: 976.526+/-0.114 $\chi^2$/NDF: 928951.7/47

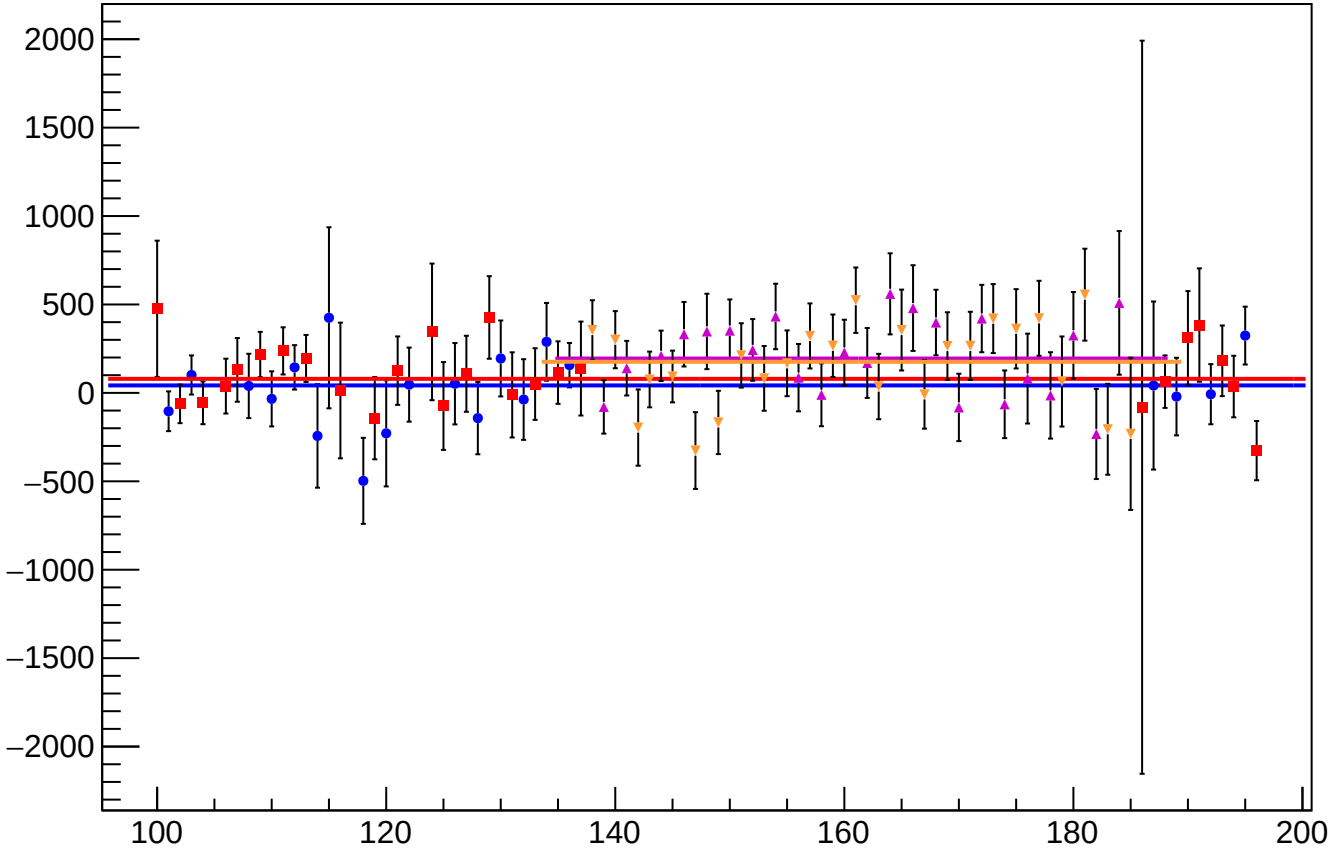
Right: 741.926+/-0.121 $\chi^2$/NDF: 5169906.7/45

In: 882.139+/-0.122 $\chi^2$/NDF:3362853.0/42

Out: 853.458+/-0.113 $\chi^2$/NDF:4703865.4/50

All: 866.709+/-0.083 $\chi^2$/NDF: 8096525.1/93

# dit_asym_sam5_mean vs Slug, Sign Corrected




Right In: 42.235+/-39.932 $\chi^2$/NDF: 16.8/19

Left Out: 176.010+/-38.838 $\chi^2$/NDF:30.8/24

Right Out: 79.395+/-35.995 $\chi^2$/NDF: 19.7/25

Left In: 194.324+/-40.384 $\chi^2$/NDF:23.8/22

Left: 184.810+/-27.993 $\chi^2$/NDF: 54.7/47

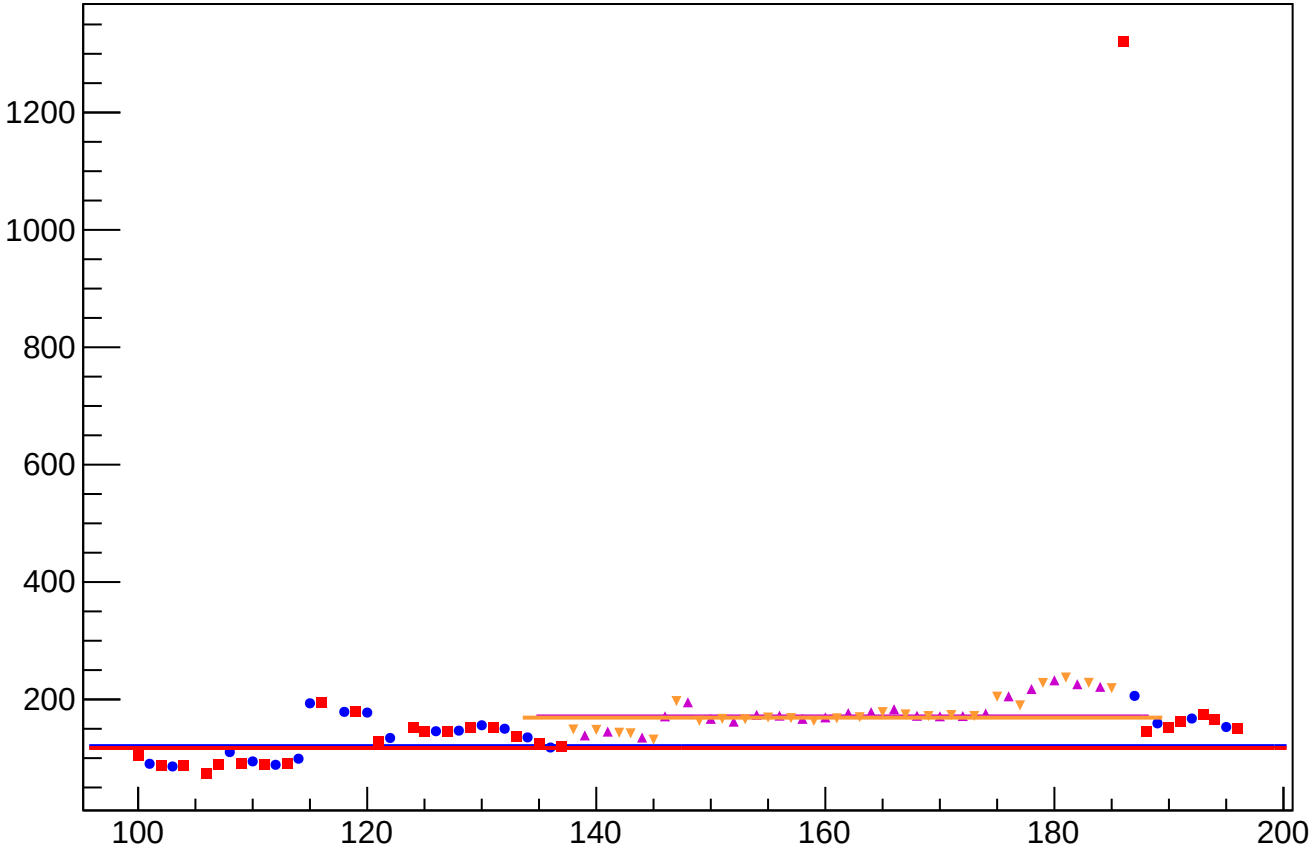
Right: 62.737+/-26.736 $\chi^2$/NDF: 36.9/45

In: 117.424+/-28.394 $\chi^2$/NDF:47.8/42

Out: 124.038+/-26.400 $\chi^2$/NDF:53.8/50

All: 120.971+/-19.334 $\chi^2$/NDF: 101.6/93

# dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 120.447+/-0.028 $\chi^2$/NDF: 1293432.1/19

Left Out: 169.009+/-0.027 $\chi^2$/NDF:773937.9/24

Right Out: 117.274+/-0.025 $\chi^2$/NDF: 2380299.6/25

Left In: 171.021+/-0.029 $\chi^2$/NDF:678106.1/22

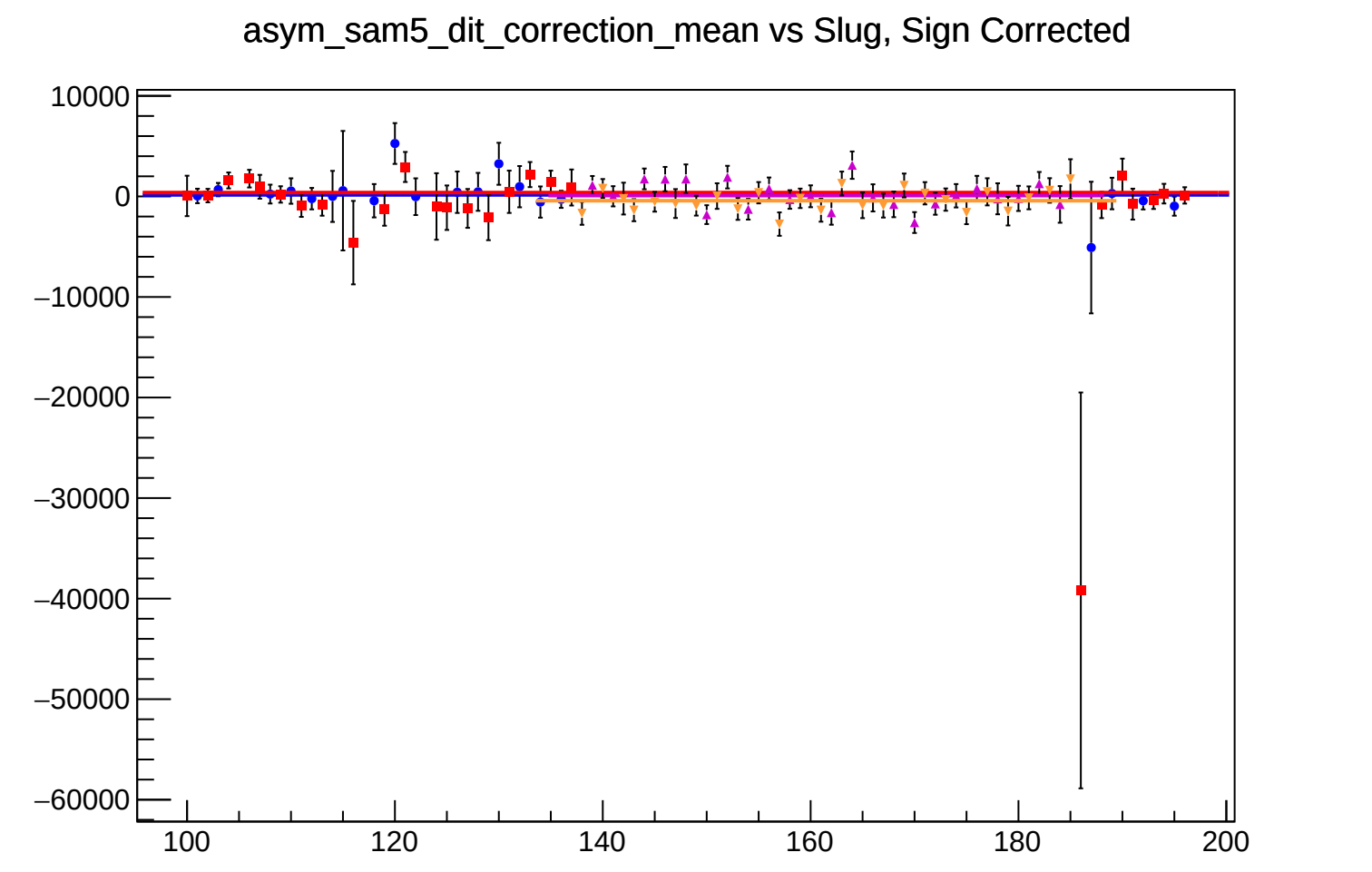
Left: 169.976+/-0.020 $\chi^2$/NDF: 1454622.7/47

Right: 118.696+/-0.019 $\chi^2$/NDF: 3680700.3/45

In: 145.450+/-0.020 $\chi^2$/NDF:3557515.1/42

Out: 141.179+/-0.019 $\chi^2$/NDF:5063329.5/50

All: 143.159+/-0.014 $\chi^2$/NDF: 8645109.8/93




Right In: 153.953+/-271.089 $\chi^2$/NDF: 12.7/19

Left Out: -425.819+/-232.561 $\chi^2$/NDF:18.4/24

Right Out: 382.948+/-234.885 $\chi^2$/NDF: 26.2/25

Left In: 86.486+/-238.155 $\chi^2$/NDF:32.4/22

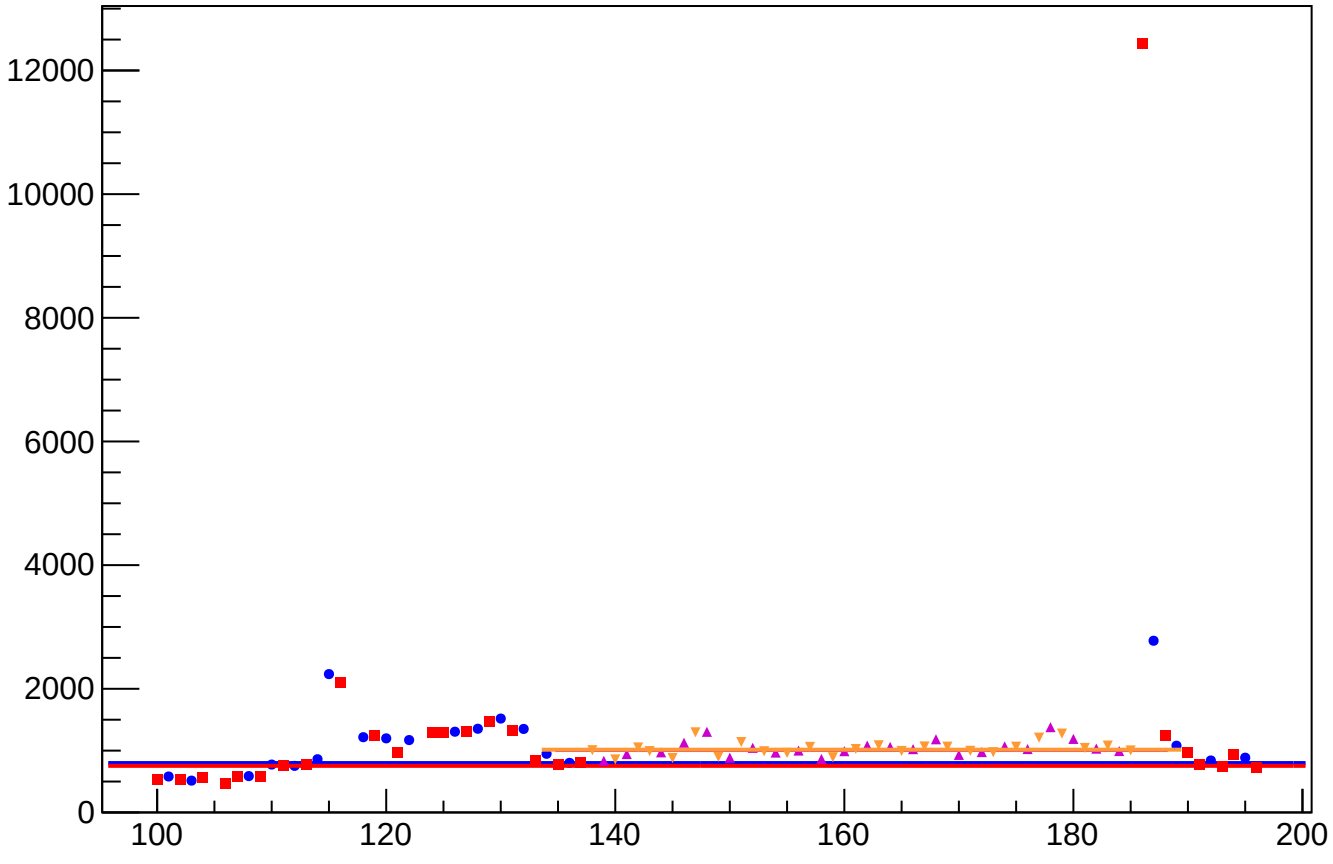
Left: -175.754+/-166.388 $\chi^2$/NDF: 53.2/47

Right: 284.752+/-177.519 $\chi^2$/NDF: 39.3/45

In: 115.874+/-178.918 $\chi^2$/NDF:45.2/42

Out: -25.458+/-165.261 $\chi^2$/NDF:50.5/50

All: 39.609+/-121.398 $\chi^2$/NDF: 96.0/93




Right In: 798.742+/-0.192 $\chi^2$/NDF: 2026474.3/19

Left Out: 1015.046+/-0.164 $\chi^2$/NDF:397966.2/24

Right Out: 753.920+/-0.166 $\chi^2$/NDF: 2893525.6/25

Left In: 1009.672+/-0.168 $\chi^2$/NDF:498783.5/22

Left: 1012.423+/-0.118 $\chi^2$/NDF: 897271.1/47

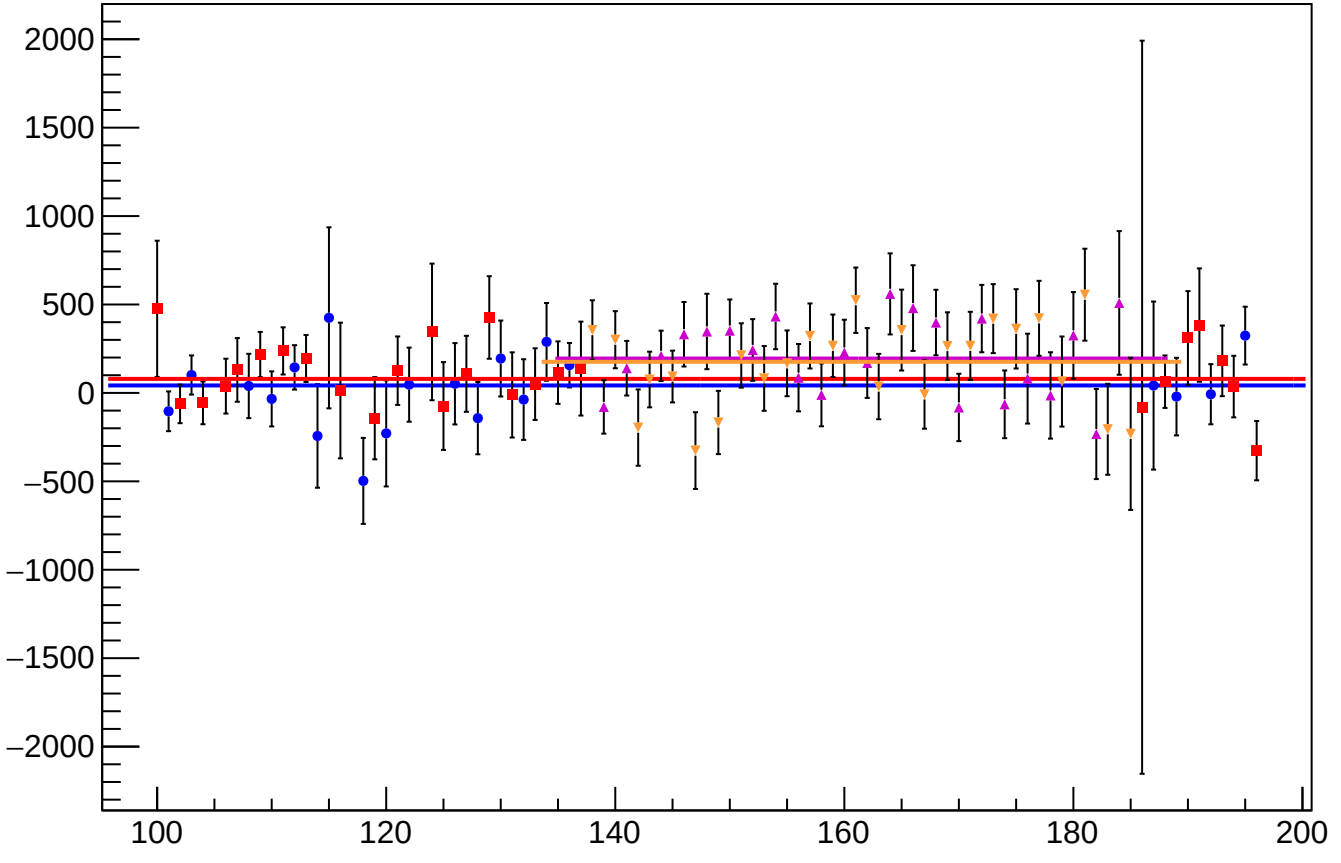
Right: 773.140+/-0.126 $\chi^2$/NDF: 4951229.7/45

In: 917.792+/-0.127 $\chi^2$/NDF:3208654.6/42

Out: 885.782+/-0.117 $\chi^2$/NDF:4539699.3/50

All: 900.518+/-0.086 $\chi^2$/NDF: 7782898.3/93

# eigen_dit_asym_sam5_mean vs Slug, Sign Corrected




Right In: 42.234+/-39.932 $\chi^2$/NDF: 16.8/19

Left Out: 176.011+/-38.838 $\chi^2$/NDF:30.8/24

Right Out: 79.395+/-35.995 $\chi^2$/NDF: 19.7/25

Left In: 194.324+/-40.384 $\chi^2$/NDF:23.8/22

Left: 184.810+/-27.993 $\chi^2$/NDF: 54.7/47

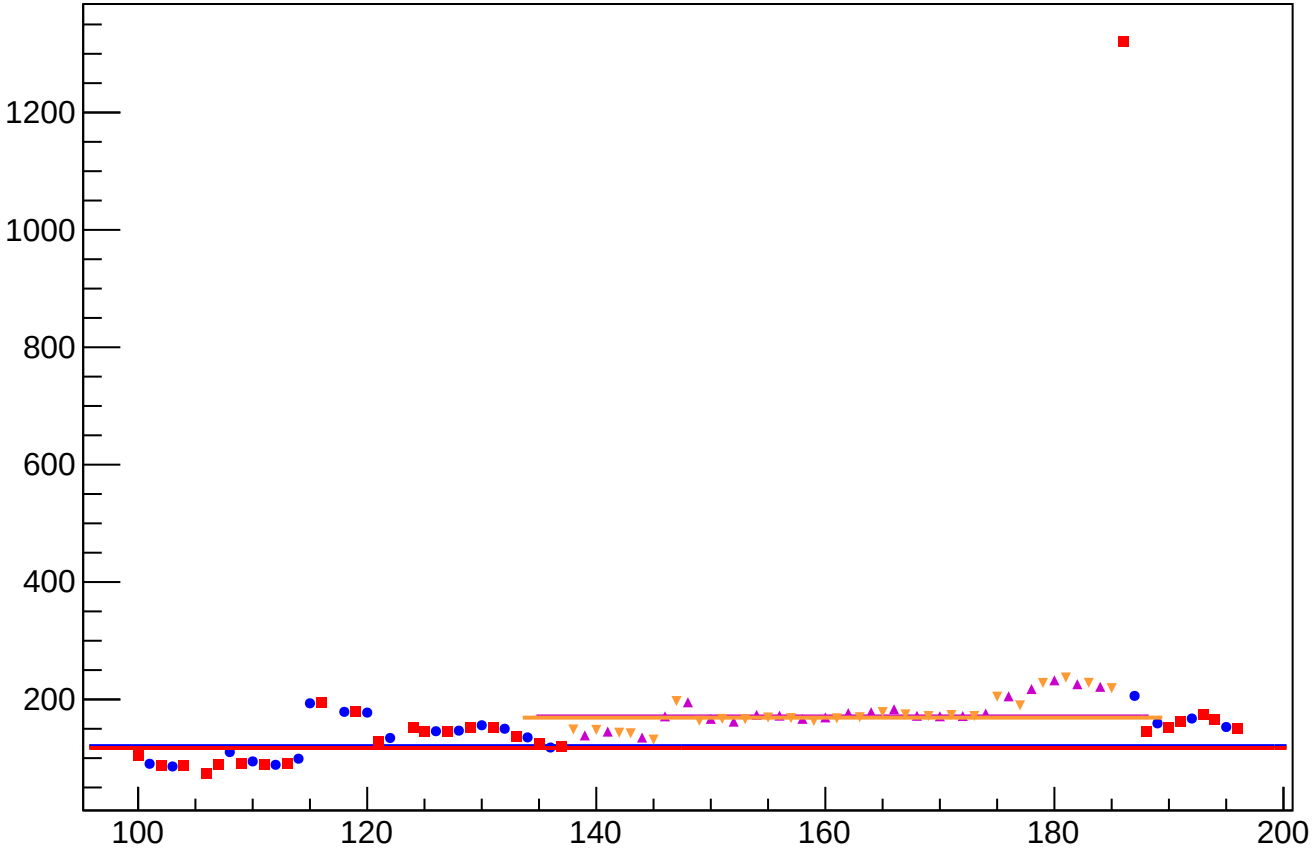
Right: 62.737+/-26.736 $\chi^2$/NDF: 36.9/45

In: 117.424+/-28.394 $\chi^2$/NDF:47.8/42

Out: 124.038+/-26.400 $\chi^2$/NDF:53.8/50

All: 120.971+/-19.334 $\chi^2$/NDF: 101.6/93

# eigen_dit_asym_sam5_rms vs Slug, Sign Corrected




Right In: 120.447+/-0.028 $\chi^2$/NDF: 1293434.8/19

Left Out: 169.009+/-0.027 $\chi^2$/NDF:773925.9/24

Right Out: 117.274+/-0.025 $\chi^2$/NDF: 2380297.7/25

Left In: 171.021+/-0.029 $\chi^2$/NDF:678096.1/22

Left: 169.976+/-0.020 $\chi^2$/NDF: 1454601.1/47

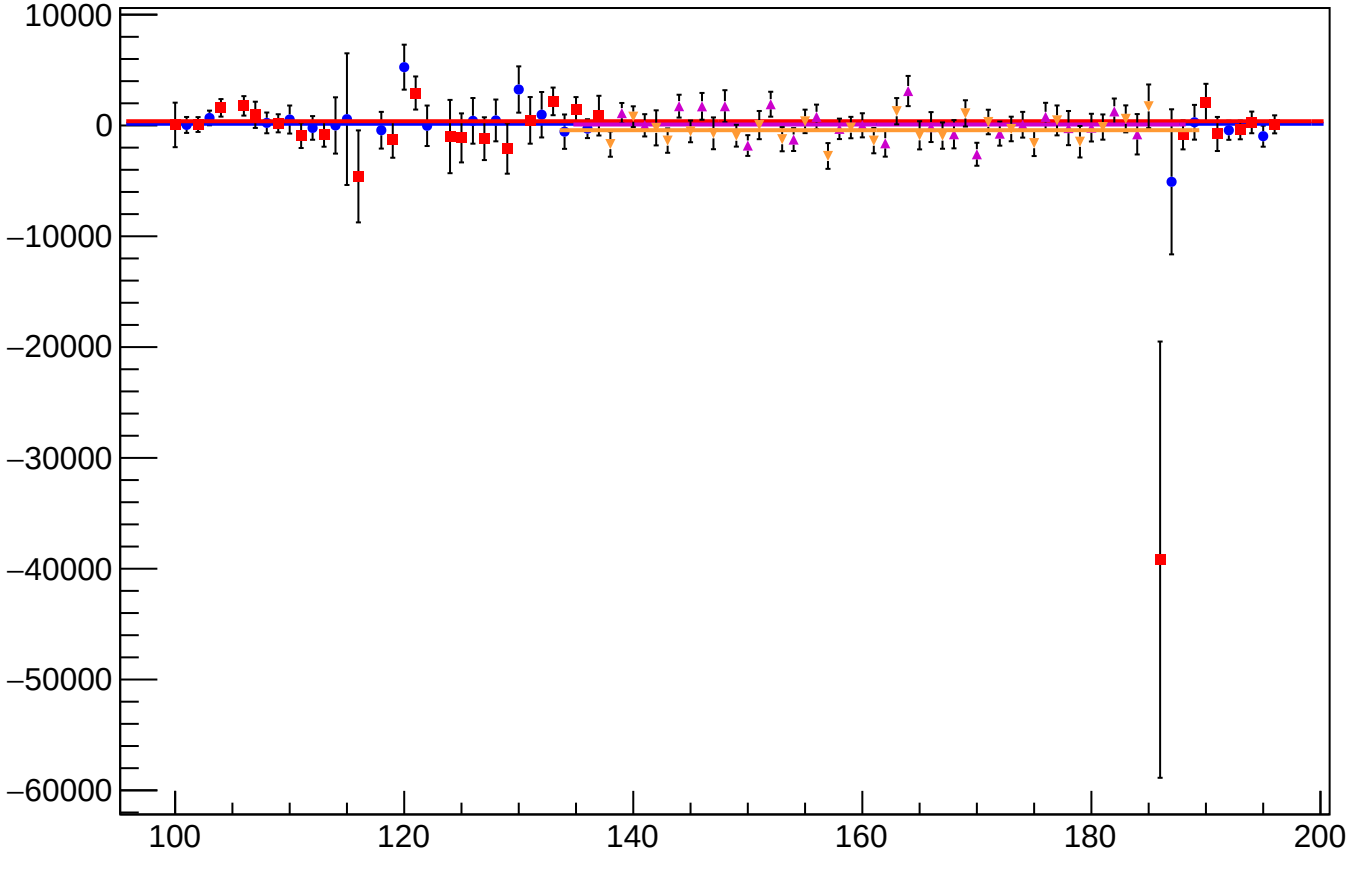
Right: 118.696+/-0.019 $\chi^2$/NDF: 3680700.7/45

In: 145.450+/-0.020 $\chi^2$/NDF:3557543.6/42

Out: 141.179+/-0.019 $\chi^2$/NDF:5063338.8/50

All: 143.159+/-0.014 $\chi^2$/NDF: 8645147.5/93

asym_sam5_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 153.952+/-271.088 $\chi^2$/NDF: 12.7/19

Left Out: -425.818+/-232.561 $\chi^2$/NDF:18.4/24

Right Out: 382.948+/-234.885 $\chi^2$/NDF: 26.2/25

Left In: 86.487+/-238.155 $\chi^2$/NDF:32.4/22

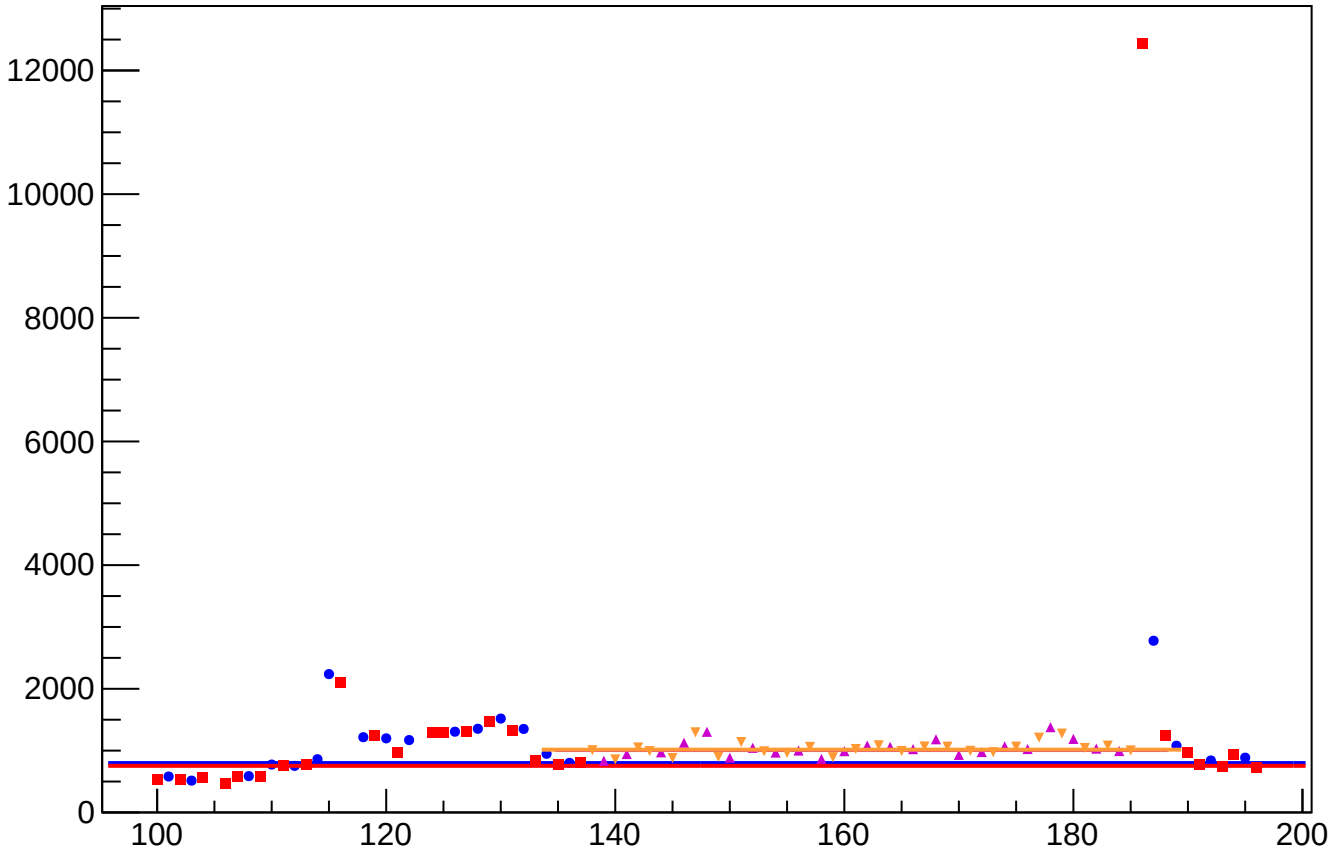
Left: -175.753+/-166.388 $\chi^2$/NDF: 53.2/47

Right: 284.752+/-177.519 $\chi^2$/NDF: 39.3/45

In: 115.874+/-178.918 $\chi^2$/NDF:45.2/42

Out: -25.456+/-165.261 $\chi^2$/NDF:50.5/50

All: 39.610+/-121.398 $\chi^2$/NDF: 96.0/93




Right In: 798.741+/-0.192 $\chi^2$/NDF: 2026473.9/19

Left Out: 1015.047+/-0.164 $\chi^2$/NDF:397964.6/24

Right Out: 753.919+/-0.166 $\chi^2$/NDF: 2893527.1/25

Left In: 1009.673+/-0.168 $\chi^2$/NDF:498783.6/22

Left: 1012.424+/-0.118 $\chi^2$/NDF: 897269.4/47

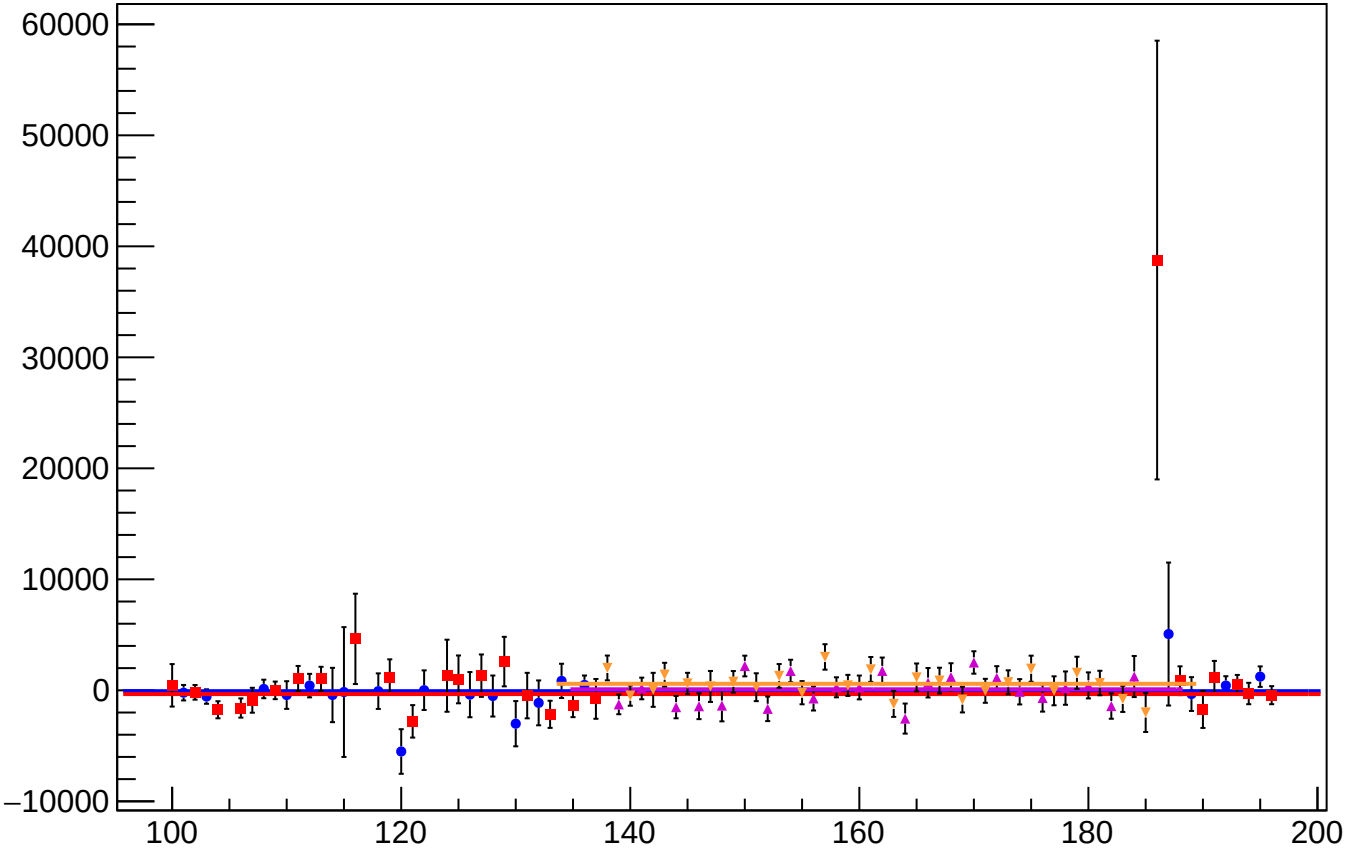
Right: 773.140+/-0.126 $\chi^2$/NDF: 4951230.5/45

In: 917.792+/-0.127 $\chi^2$/NDF:3208669.5/42

Out: 885.782+/-0.117 $\chi^2$/NDF:4539716.0/50

All: 900.518+/-0.086 $\chi^2$/NDF: 7782929.9/93

# asym_sam5_mean vs Slug, Sign Corrected




Right In: -77.181+/-263.563 $\chi^2$/NDF: 14.5/19

Left Out: 586.188+/-227.585 $\chi^2$/NDF:20.8/24

Right Out: -337.617+/-230.126 $\chi^2$/NDF: 28.5/25

Left In: 92.688+/-233.019 $\chi^2$/NDF:34.6/22

Left: 345.259+/-162.814 $\chi^2$/NDF: 57.6/47

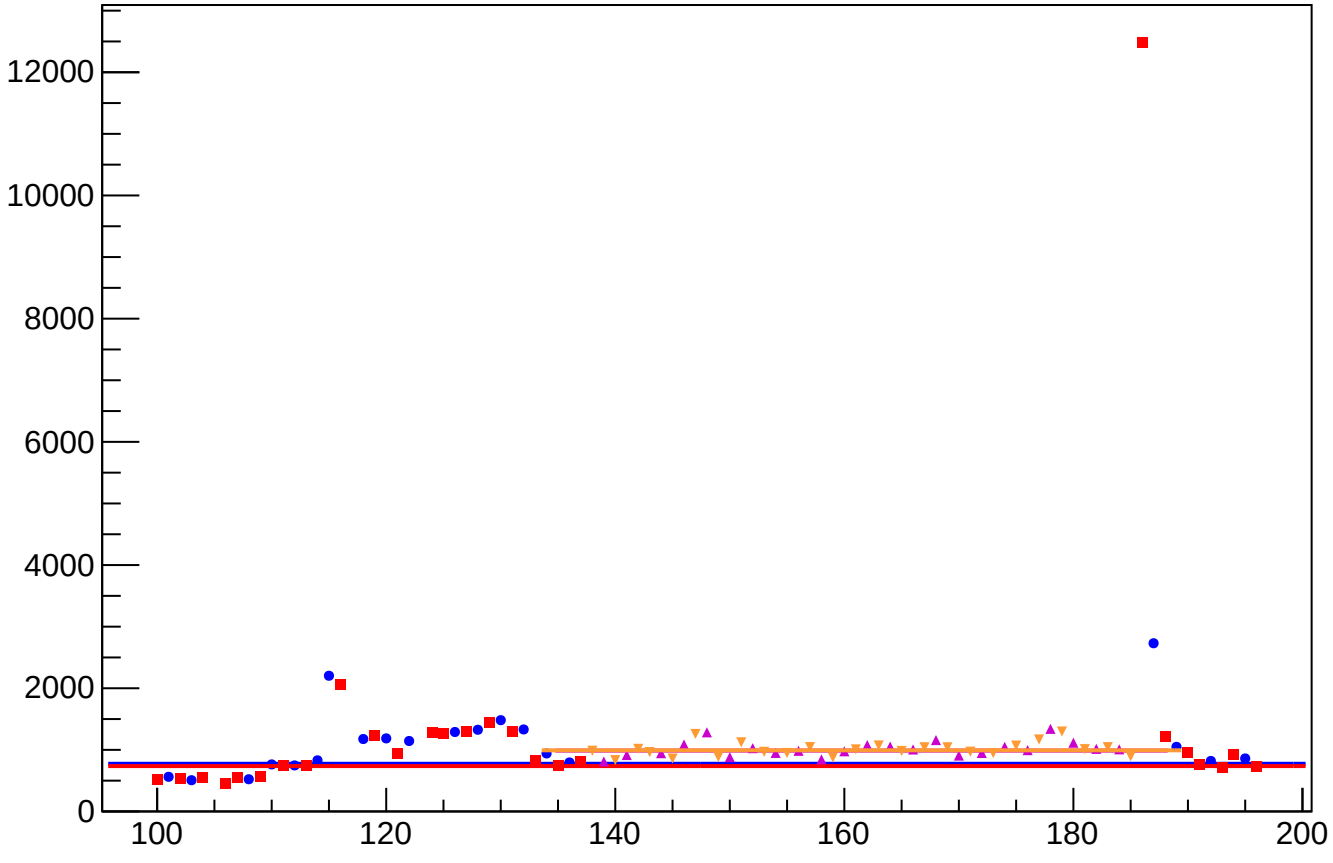
Right: -224.957+/-173.348 $\chi^2$/NDF: 43.6/45

In: 18.162+/-174.574 $\chi^2$/NDF:49.4/42

Out: 129.414+/-161.818 $\chi^2$/NDF:57.4/50

All: 78.001+/-118.676 $\chi^2$/NDF: 107.0/93

# asym_sam5_rms vs Slug, Sign Corrected




Right In: 773.916+/-0.186 $\chi^2$/NDF: 2114814.8/19

Left Out: 992.549+/-0.161 $\chi^2$/NDF:424899.6/24

Right Out: 736.516+/-0.163 $\chi^2$/NDF: 2951254.1/25

Left In: 987.784+/-0.165 $\chi^2$/NDF:487733.2/22

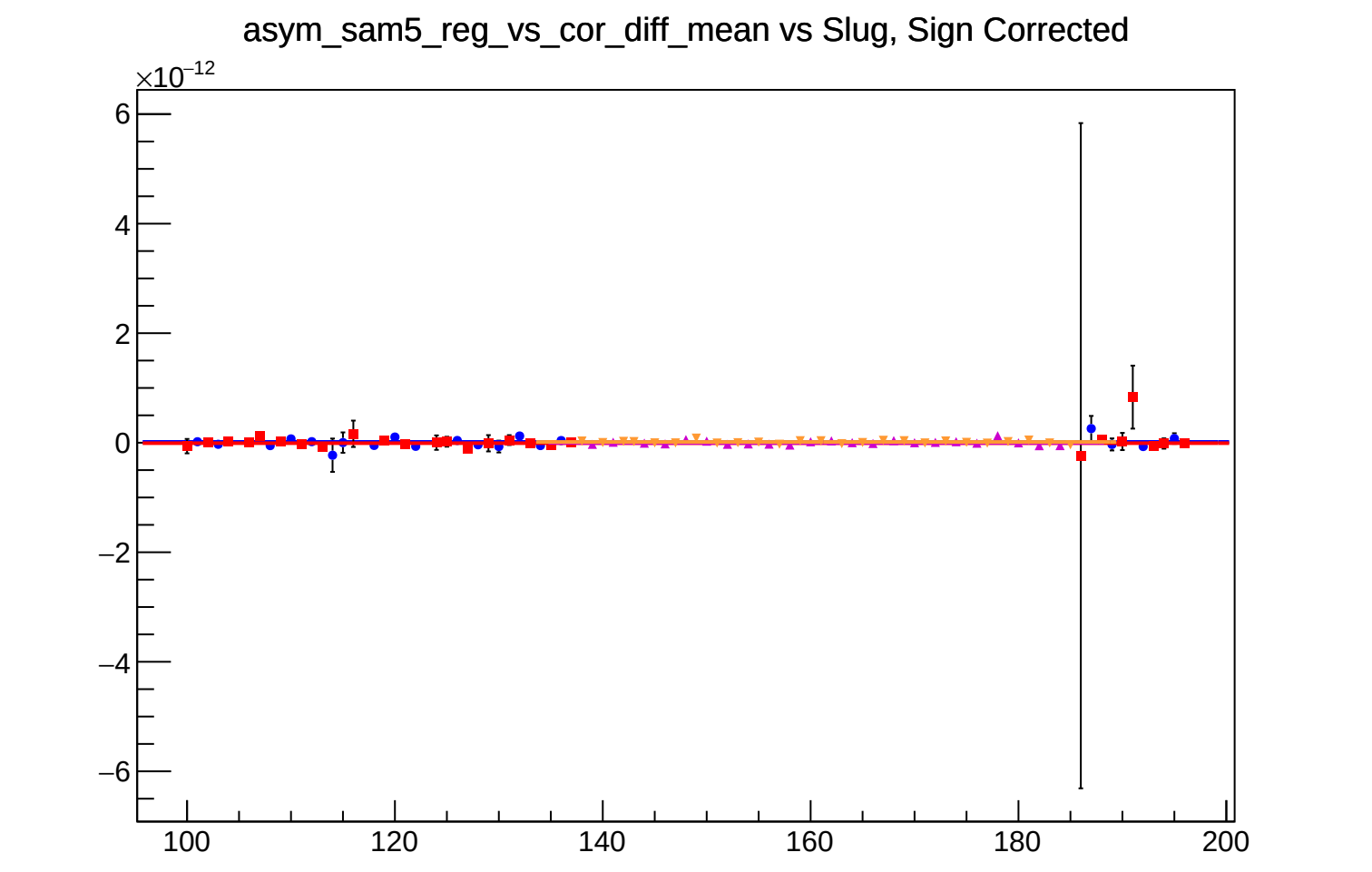
Left: 990.223+/-0.115 $\chi^2$/NDF: 913060.8/47

Right: 752.695+/-0.123 $\chi^2$/NDF: 5088920.1/45

In: 893.955+/-0.123 $\chi^2$/NDF:3341692.6/42

Out: 865.954+/-0.114 $\chi^2$/NDF:4627724.7/50

All: 878.894+/-0.084 $\chi^2$/NDF: 7997093.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 21.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:23.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 18.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:28.1/22

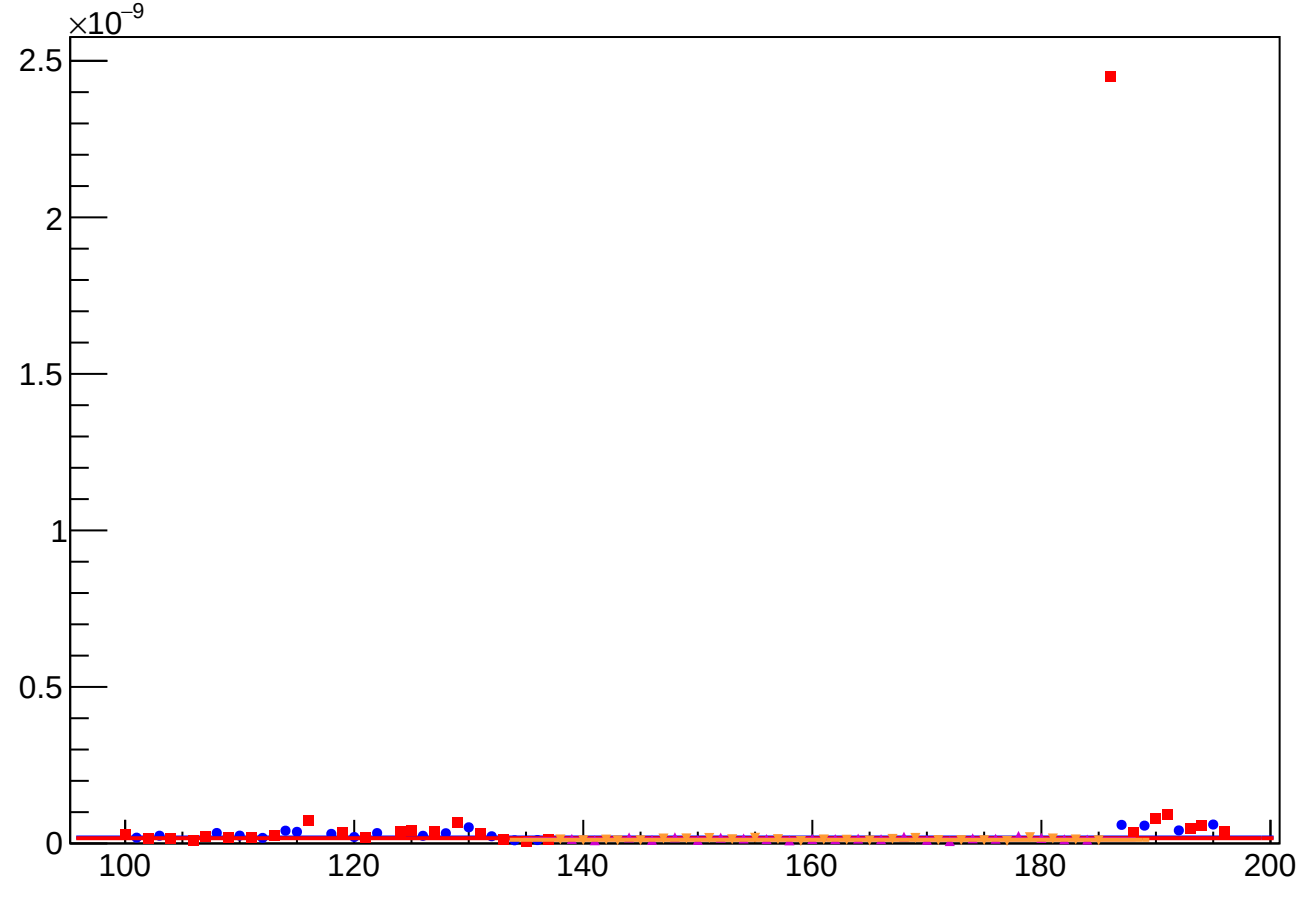
Left: 0.000+/-0.000 $\chi^2$/NDF: 56.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 42.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:51.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:46.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 99.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2077395.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:762184.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3632956.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:853838.4/22

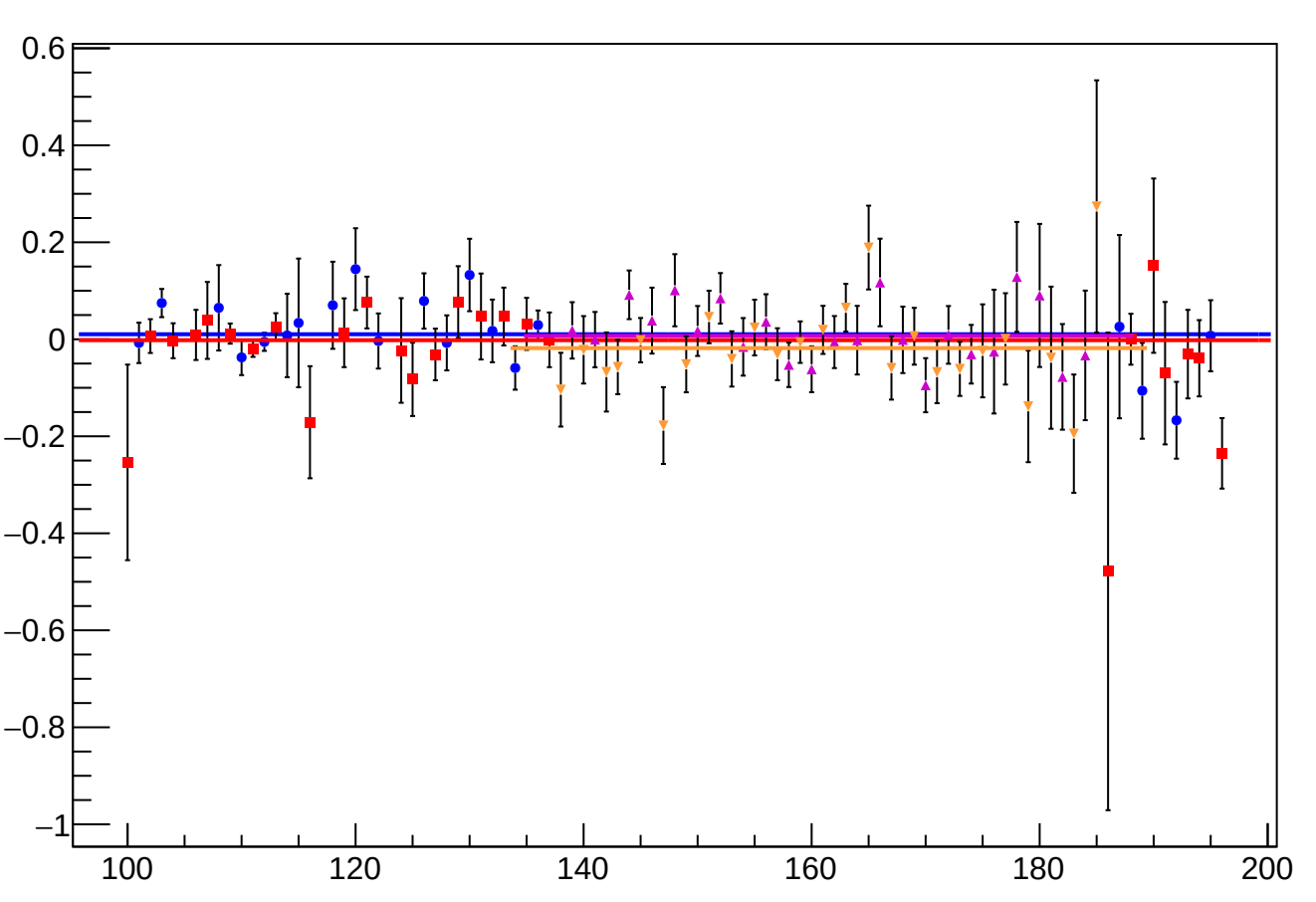
Left: 0.000+/-0.000 $\chi^2$/NDF: 1727958.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 5766234.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:3393504.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:4888384.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 8450409.1/93




Right In: 0.010+/-0.010 $\chi^2$/NDF: 24.4/19

Left Out: -0.018+/-0.013 $\chi^2$/NDF:24.3/24

Right Out: -0.002+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: 0.007+/-0.013 $\chi^2$/NDF:18.7/22

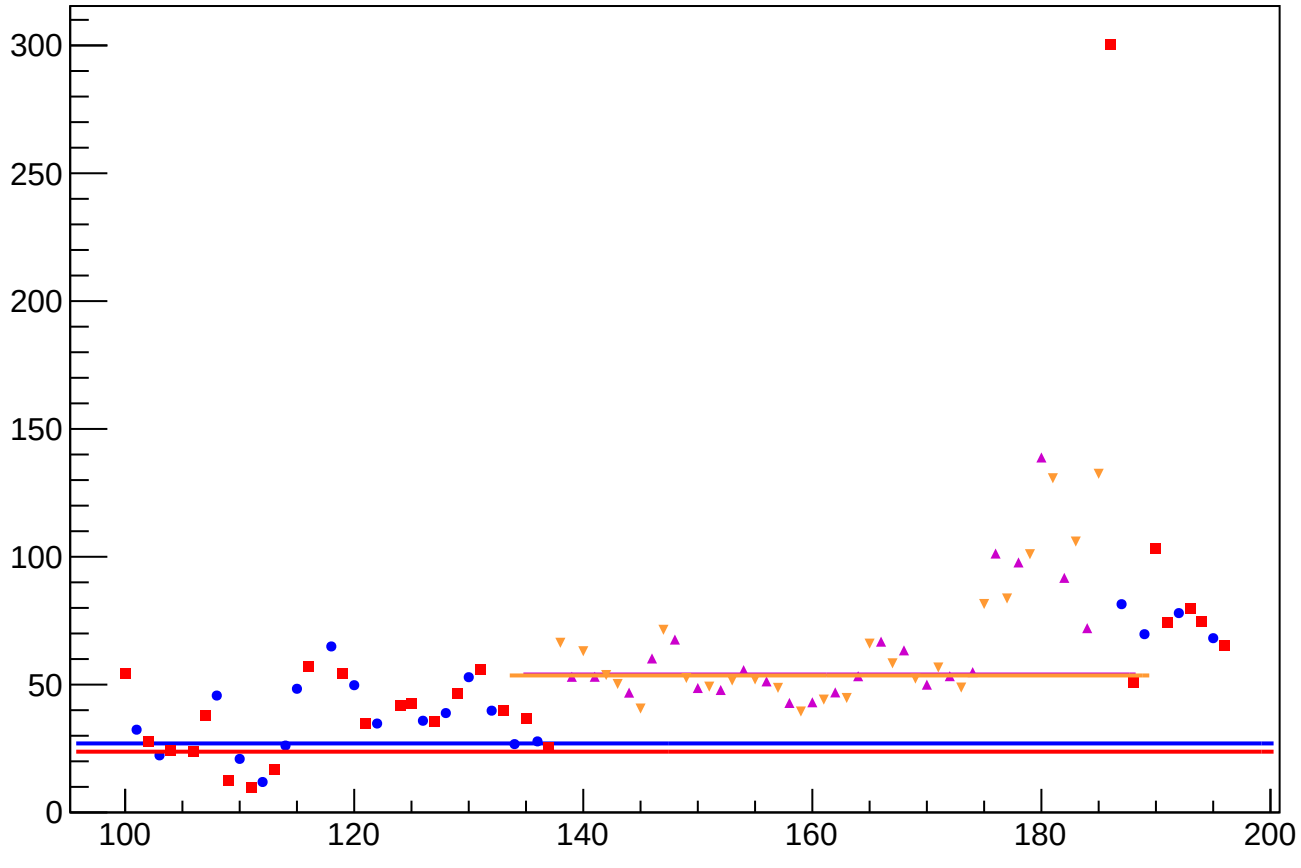
Left: -0.006+/-0.009 $\chi^2$/NDF: 44.9/47

Right: 0.003+/-0.007 $\chi^2$/NDF: 50.4/45

In: 0.009+/-0.008 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:50.6/50

All: 0.000+/-0.005 $\chi^2$/NDF: 96.0/93




Right In: 26.996+/-0.007 $\chi^2$/NDF: 4588869.7/19

Left Out: 53.582+/-0.009 $\chi^2$/NDF:2642509.0/24

Right Out: 23.771+/-0.006 $\chi^2$/NDF: 7871786.7/25

Left In: 53.961+/-0.009 $\chi^2$/NDF:2039530.1/22

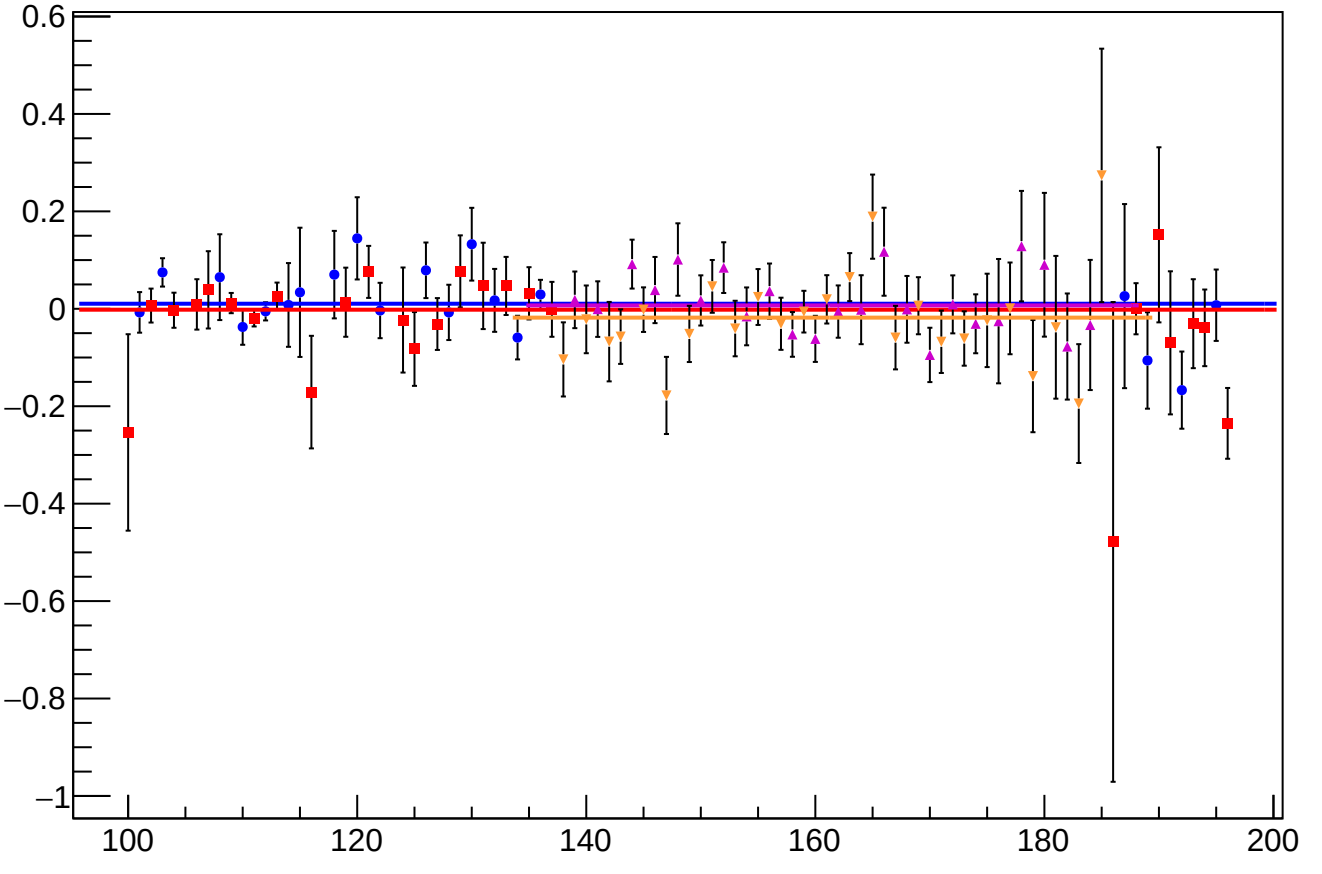
Left: 53.766+/-0.006 $\chi^2$/NDF: 4682889.4/47

Right: 25.145+/-0.005 $\chi^2$/NDF: 12572909.3/45

In: 37.227+/-0.006 $\chi^2$/NDF:11813116.0/42

Out: 33.466+/-0.005 $\chi^2$/NDF:17833973.5/50

All: 35.145+/-0.004 $\chi^2$/NDF: 29884263.4/93




Right In: 0.010+/-0.010 $\chi^2$/NDF: 24.4/19

Left Out: -0.018+/-0.013 $\chi^2$/NDF:24.3/24

Right Out: -0.002+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: 0.007+/-0.013 $\chi^2$/NDF:18.7/22

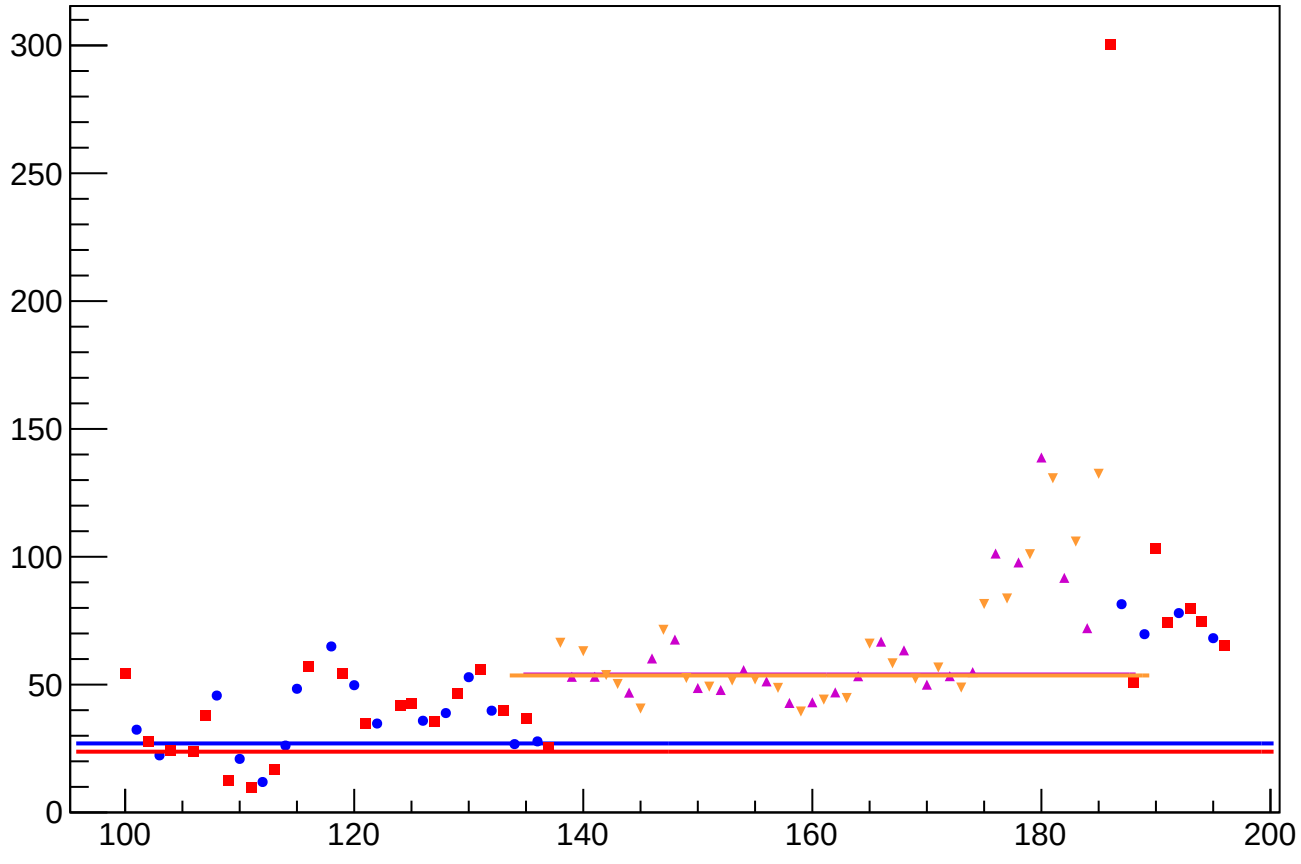
Left: -0.006+/-0.009 $\chi^2$/NDF: 44.9/47

Right: 0.003+/-0.007 $\chi^2$/NDF: 50.4/45

In: 0.009+/-0.008 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:50.6/50

All: 0.000+/-0.005 $\chi^2$/NDF: 96.0/93




Right In: 26.996+/-0.007 $\chi^2$/NDF: 4588869.7/19

Left Out: 53.582+/-0.009 $\chi^2$/NDF:2642509.0/24

Right Out: 23.771+/-0.006 $\chi^2$/NDF: 7871786.7/25

Left In: 53.961+/-0.009 $\chi^2$/NDF:2039530.1/22

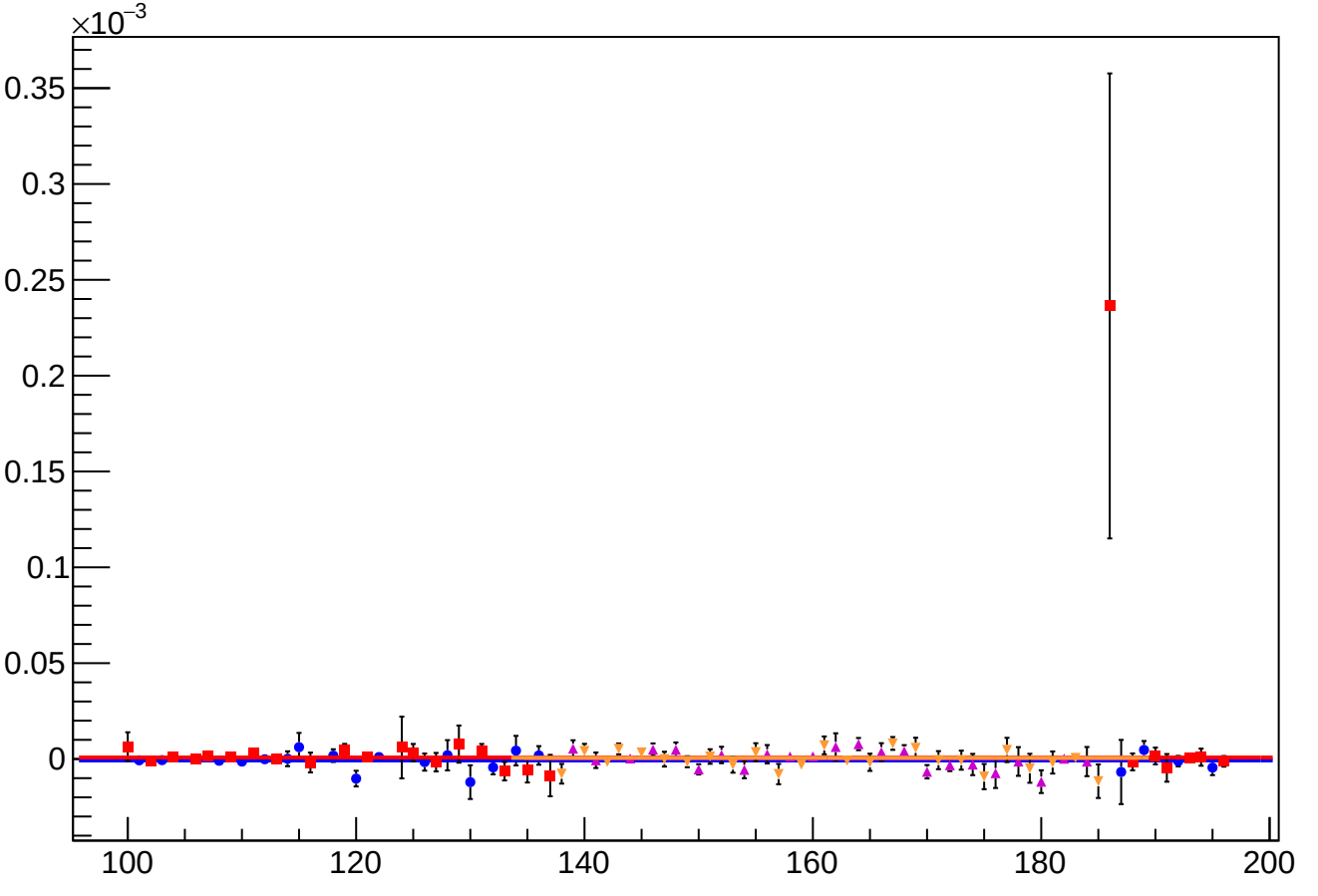
Left: 53.766+/-0.006 $\chi^2$/NDF: 4682889.4/47

Right: 25.145+/-0.005 $\chi^2$/NDF: 12572909.3/45

In: 37.227+/-0.006 $\chi^2$/NDF:11813116.0/42

Out: 33.466+/-0.005 $\chi^2$/NDF:17833973.5/50

All: 35.145+/-0.004 $\chi^2$/NDF: 29884263.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 13.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.9/22

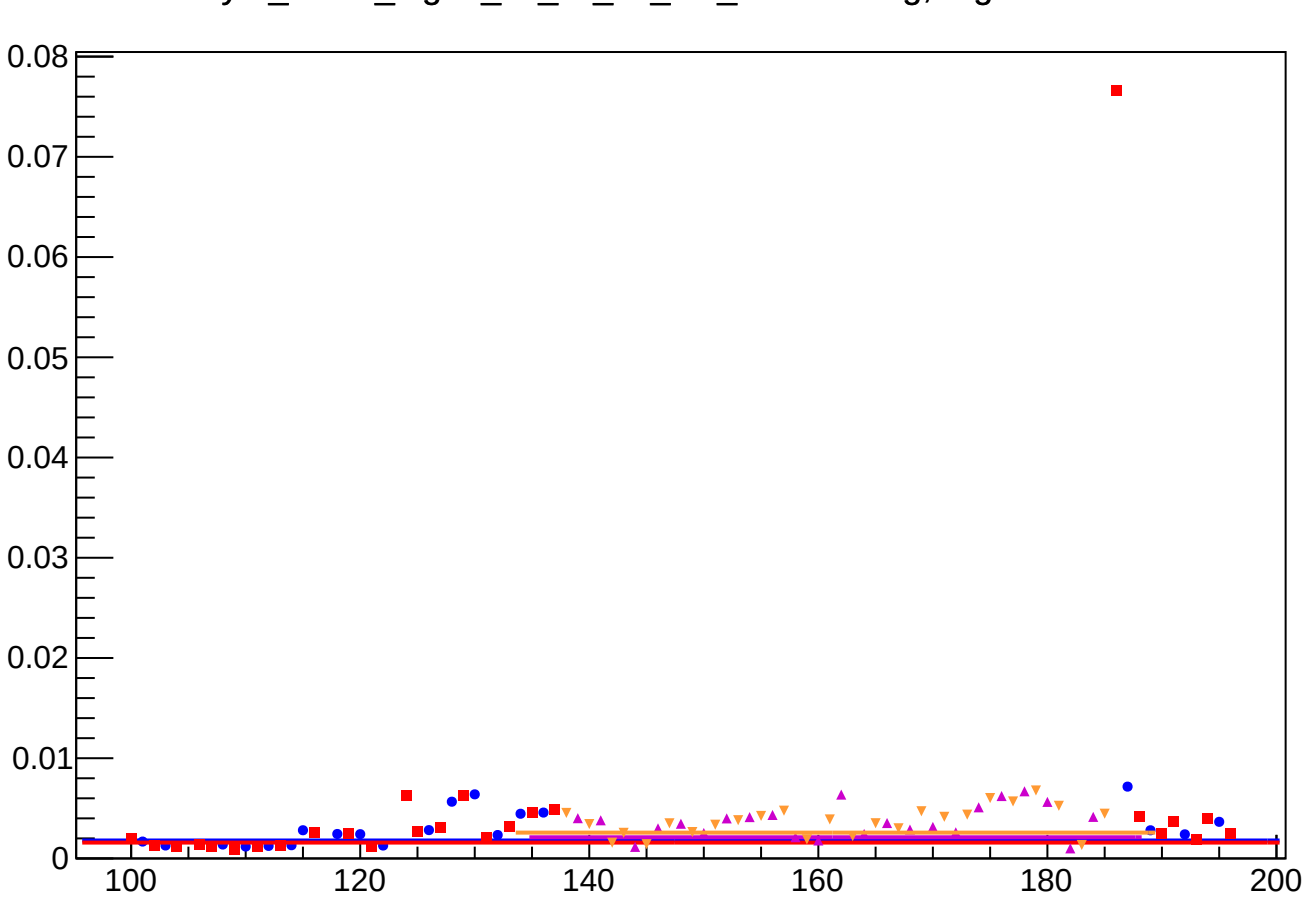
Left: 0.000+/-0.000 $\chi^2$/NDF: 61.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 33.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:46.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:48.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 96.1/93




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3860109.4/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7112963.2/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5675299.5/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:9487138.7/22

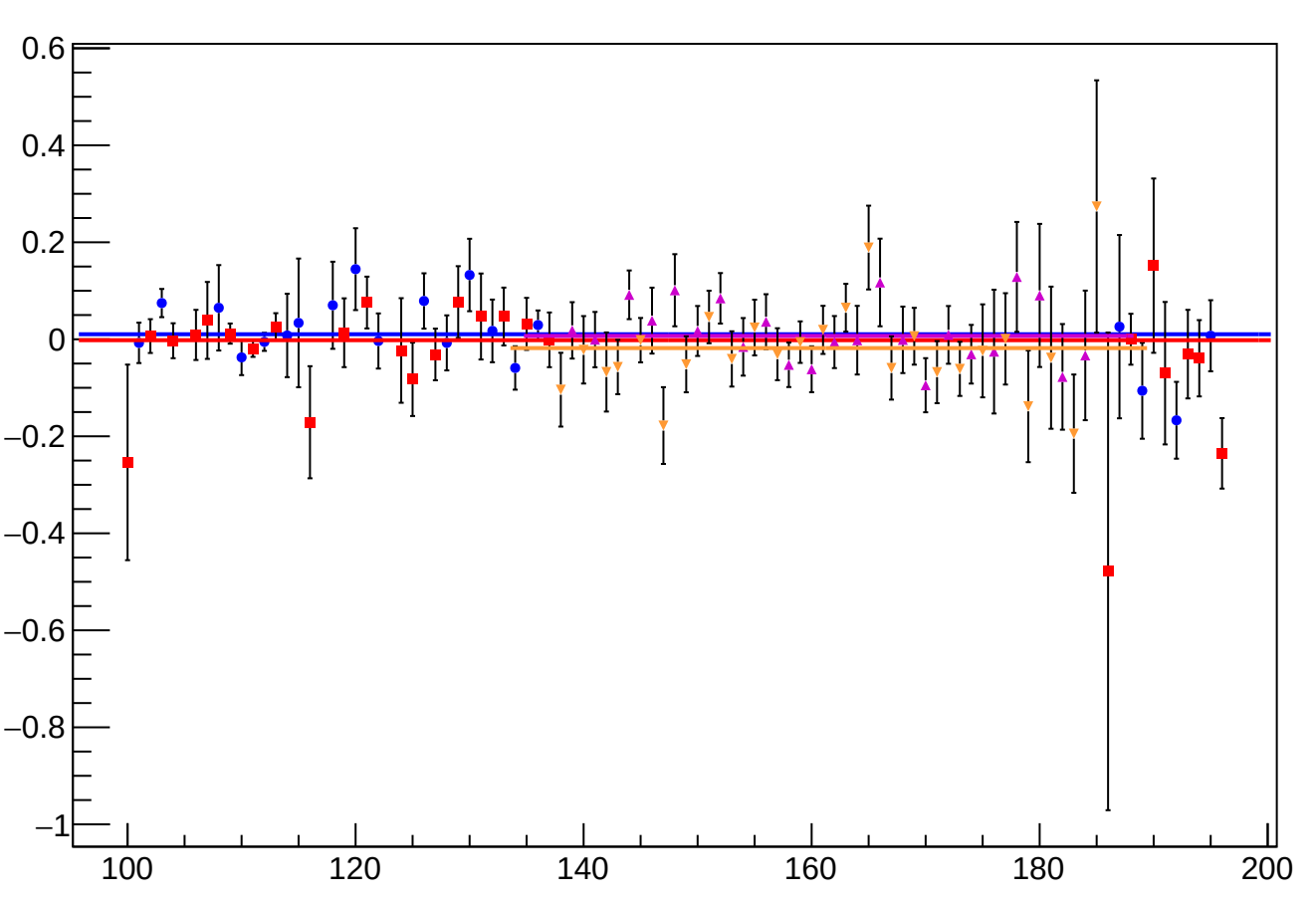
Left: 0.002+/-0.000 $\chi^2$/NDF: 17155413.1/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 9654141.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:13612547.5/42

Out: 0.002+/-0.000 $\chi^2$/NDF:15480708.7/50

All: 0.002+/-0.000 $\chi^2$/NDF: 29093532.7/93




Right In: 0.010+/-0.010 $\chi^2$/NDF: 24.4/19

Left Out: -0.018+/-0.013 $\chi^2$/NDF:24.3/24

Right Out: -0.002+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: 0.007+/-0.013 $\chi^2$/NDF:18.7/22

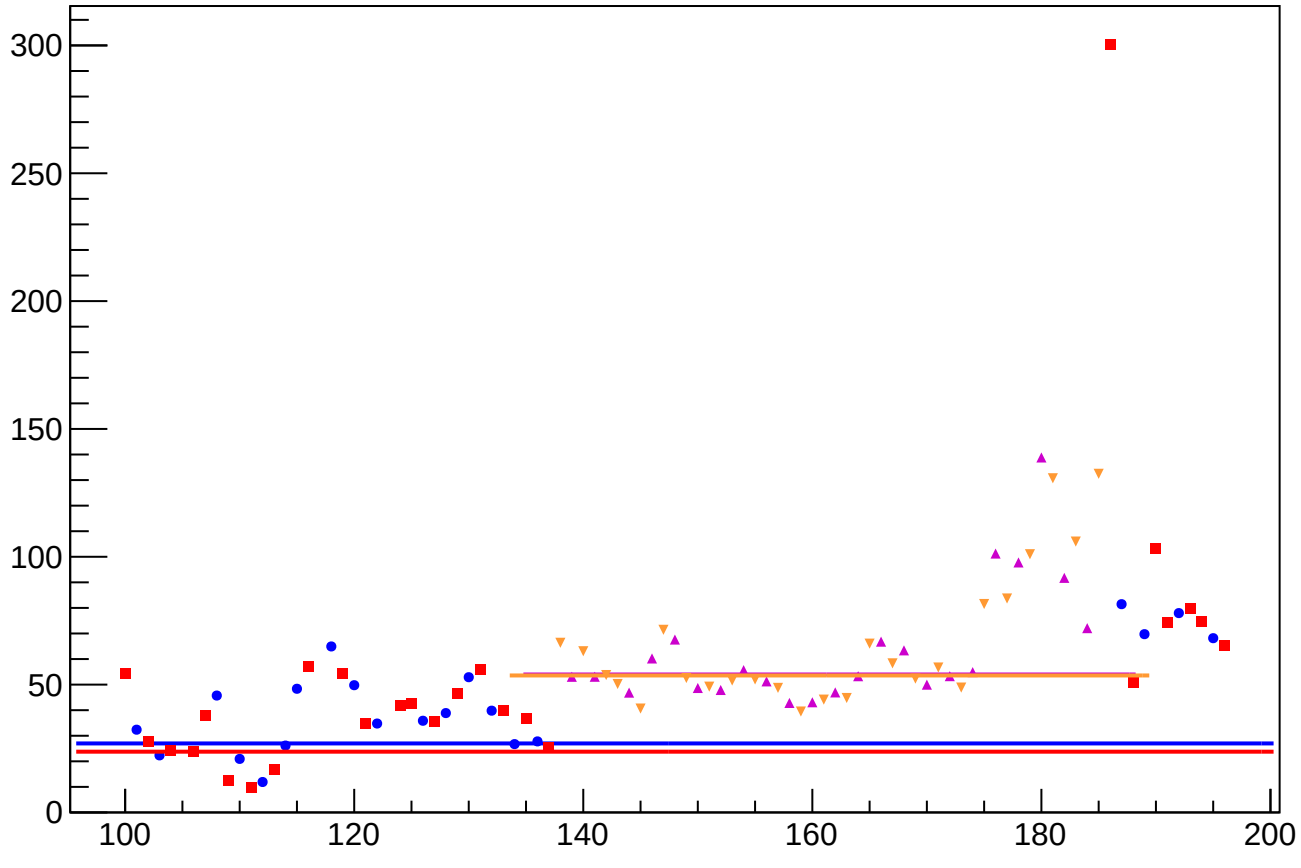
Left: -0.006+/-0.009 $\chi^2$/NDF: 44.9/47

Right: 0.003+/-0.007 $\chi^2$/NDF: 50.4/45

In: 0.009+/-0.008 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:50.6/50

All: 0.000+/-0.005 $\chi^2$/NDF: 96.0/93




Right In: 26.996+/-0.007 $\chi^2$/NDF: 4588867.3/19

Left Out: 53.582+/-0.009 $\chi^2$/NDF:2642554.6/24

Right Out: 23.770+/-0.006 $\chi^2$/NDF: 7871867.4/25

Left In: 53.961+/-0.009 $\chi^2$/NDF:2039571.7/22

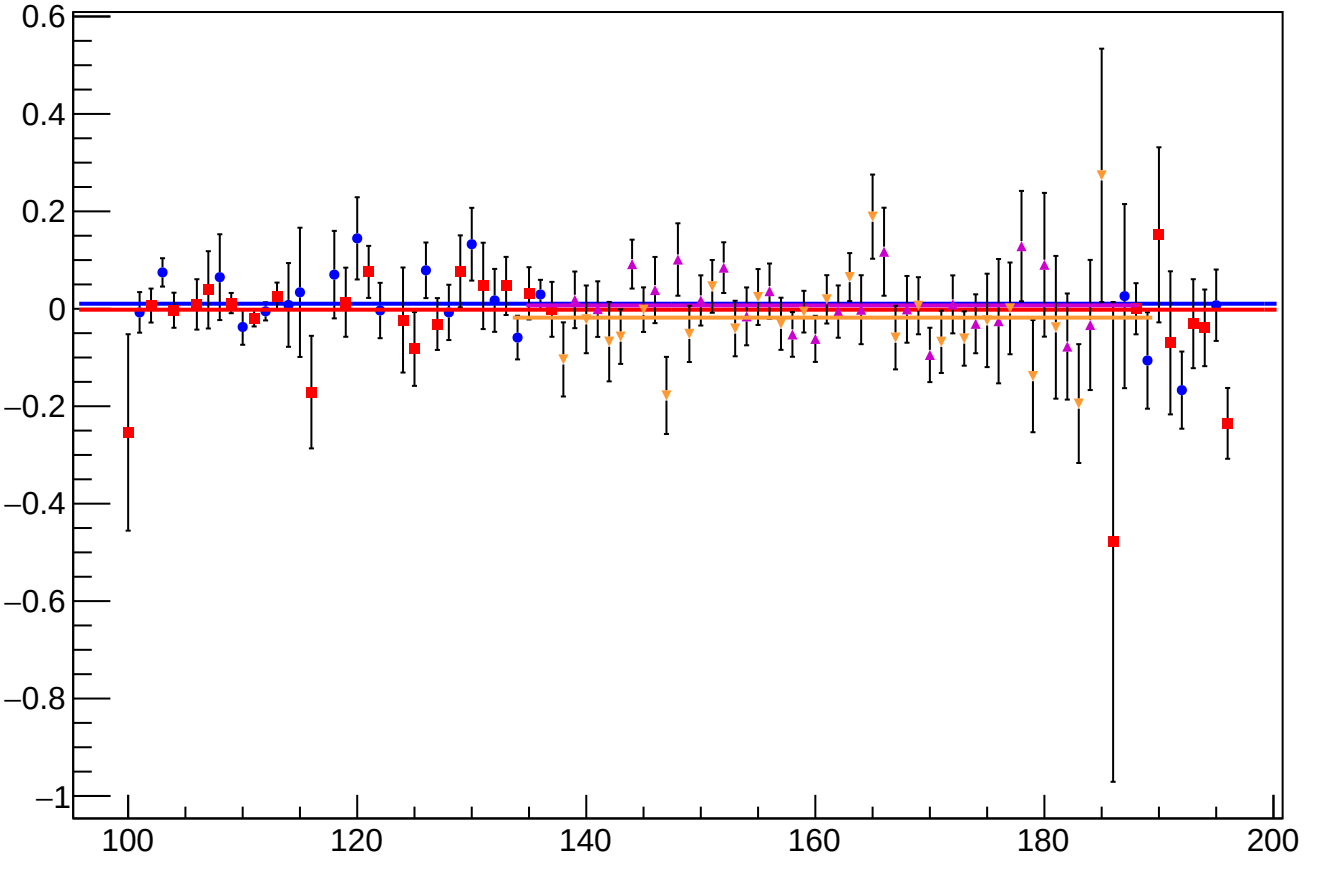
Left: 53.766+/-0.006 $\chi^2$/NDF: 4682976.8/47

Right: 25.144+/-0.005 $\chi^2$/NDF: 12572995.6/45

In: 37.227+/-0.006 $\chi^2$/NDF:11813532.0/42

Out: 33.465+/-0.005 $\chi^2$/NDF:17834583.0/50

All: 35.145+/-0.004 $\chi^2$/NDF: 29885305.1/93




Right In: 0.010+/-0.010 $\chi^2$/NDF: 24.4/19

Left Out: -0.018+/-0.013 $\chi^2$/NDF:24.3/24

Right Out: -0.002+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: 0.007+/-0.013 $\chi^2$/NDF:18.7/22

Left: -0.006+/-0.009 $\chi^2$/NDF: 44.9/47

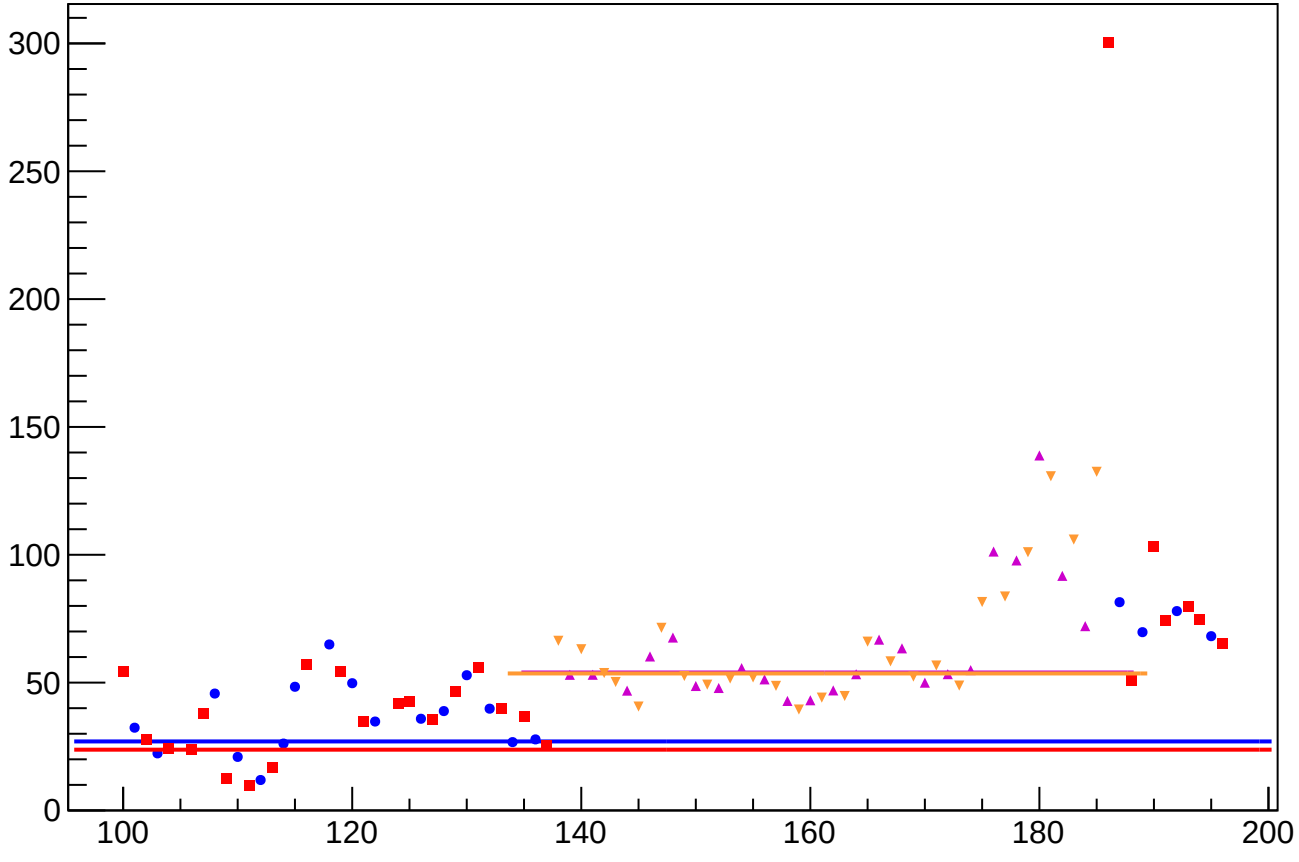
Right: 0.003+/-0.007 $\chi^2$/NDF: 50.4/45

In: 0.009+/-0.008 $\chi^2$/NDF:43.1/42

Out: -0.007+/-0.007 $\chi^2$/NDF:50.6/50

All: 0.000+/-0.005 $\chi^2$/NDF: 96.0/93

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 26.996+/-0.007 $\chi^2$/NDF: 4588867.3/19

Left Out: 53.582+/-0.009 $\chi^2$/NDF:2642554.6/24

Right Out: 23.770+/-0.006 $\chi^2$/NDF: 7871867.4/25

Left In: 53.961+/-0.009 $\chi^2$/NDF:2039571.7/22

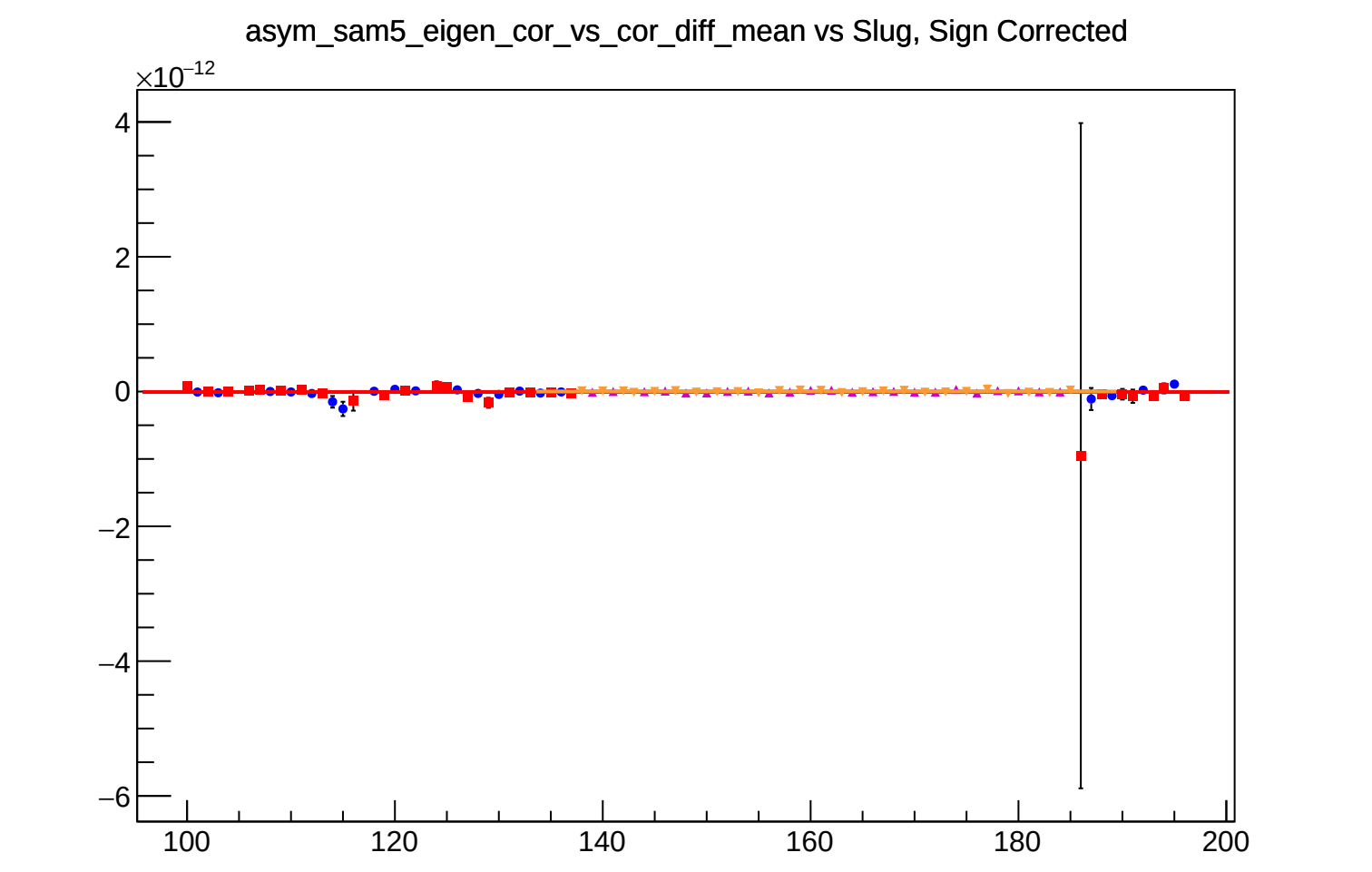
Left: 53.766+/-0.006 $\chi^2$/NDF: 4682976.8/47

Right: 25.144+/-0.005 $\chi^2$/NDF: 12572995.6/45

In: 37.227+/-0.006 $\chi^2$/NDF:11813532.0/42

Out: 33.465+/-0.005 $\chi^2$/NDF:17834583.0/50

All: 35.145+/-0.004 $\chi^2$/NDF: 29885305.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.1/22

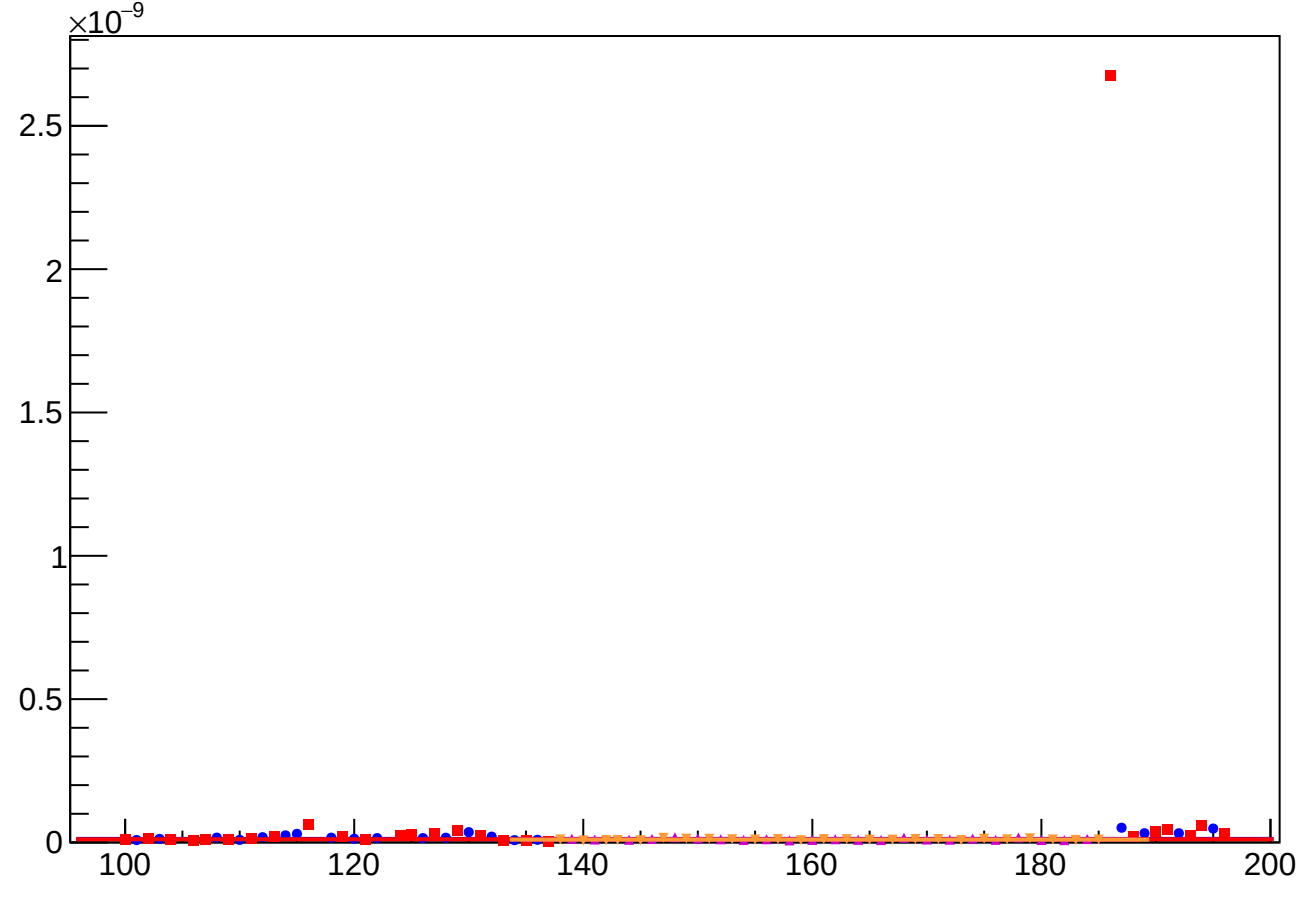
Left: 0.000+/-0.000 $\chi^2$/NDF: 45.7/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 53.4/45

In: -0.000+/-0.000 $\chi^2$/NDF:39.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:62.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 101.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2690855.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1196110.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5482923.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1313644.4/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 2523943.3/47

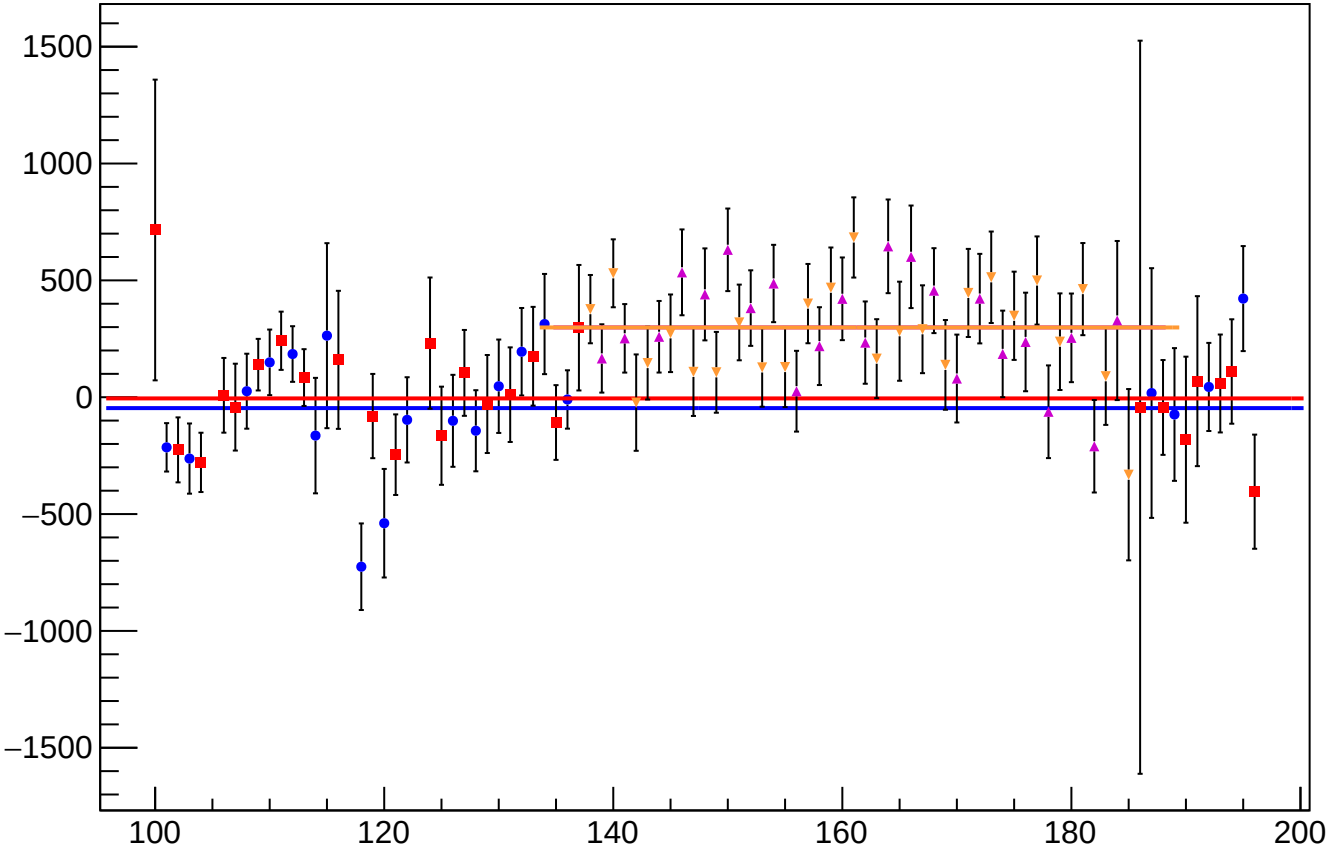
Right: 0.000+/-0.000 $\chi^2$/NDF: 8231707.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:4253792.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6784227.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 11079992.4/93

# reg_asym_sam6_mean vs Slug, Sign Corrected




Right In: -46.597+/-38.909 $\chi^2$/NDF: 39.2/19

Left Out: 298.517+/-36.051 $\chi^2$/NDF:26.0/24

Right Out: -5.118+/-36.232 $\chi^2$/NDF: 24.5/25

Left In: 298.675+/-37.727 $\chi^2$/NDF:29.4/22

Left: 298.592+/-26.064 $\chi^2$/NDF: 55.4/47

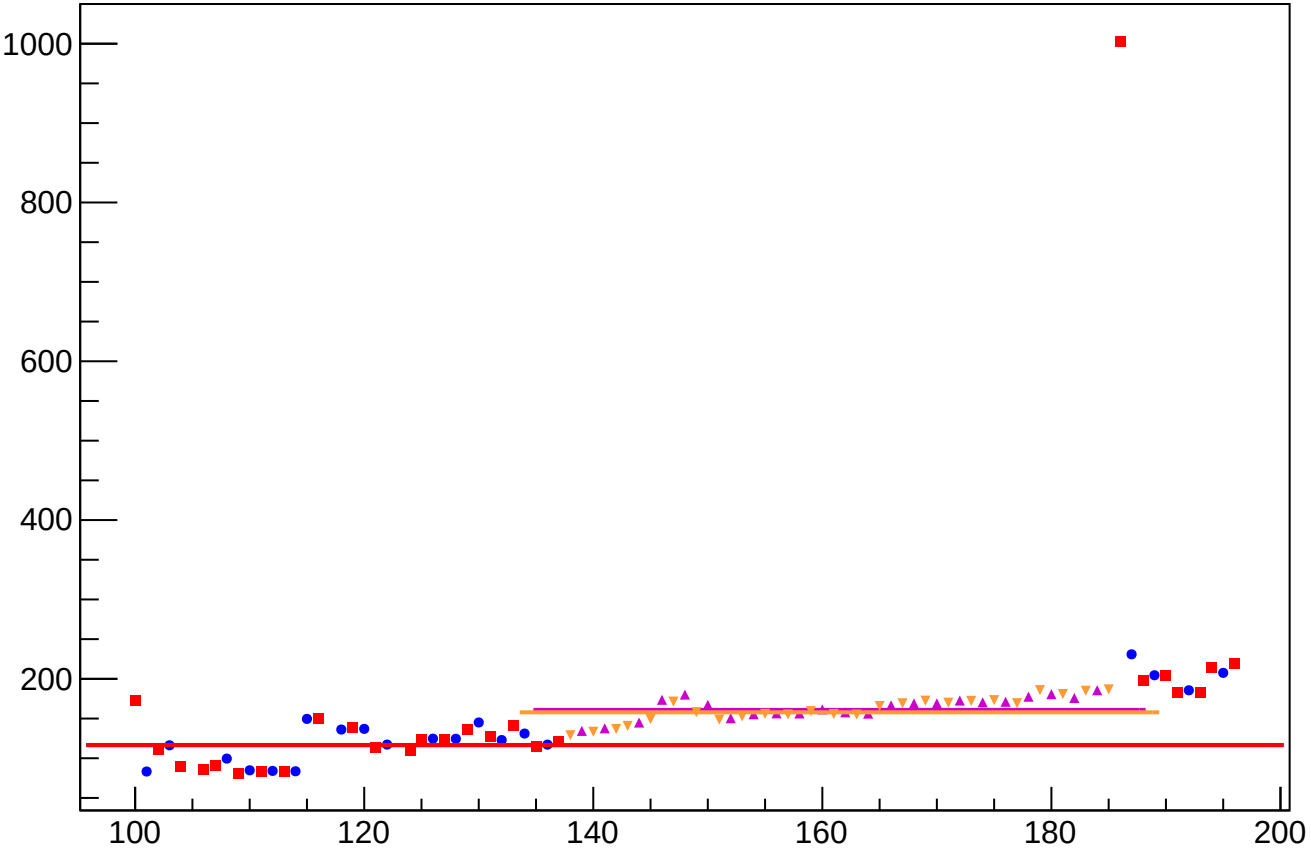
Right: -24.381+/-26.516 $\chi^2$/NDF: 64.3/45

In: 131.362+/-27.085 $\chi^2$/NDF:109.3/42

Out: 147.460+/-25.555 $\chi^2$/NDF:85.8/50

All: 139.879+/-18.588 $\chi^2$/NDF: 195.2/93

# reg_asym_sam6_rms vs Slug, Sign Corrected




Right In: 116.431+/-0.028 $\chi^2$/NDF: 1507150.7/19

Left Out: 157.836+/-0.025 $\chi^2$/NDF:377205.2/24

Right Out: 116.727+/-0.026 $\chi^2$/NDF: 2930780.0/25

Left In: 160.874+/-0.027 $\chi^2$/NDF:268330.7/22

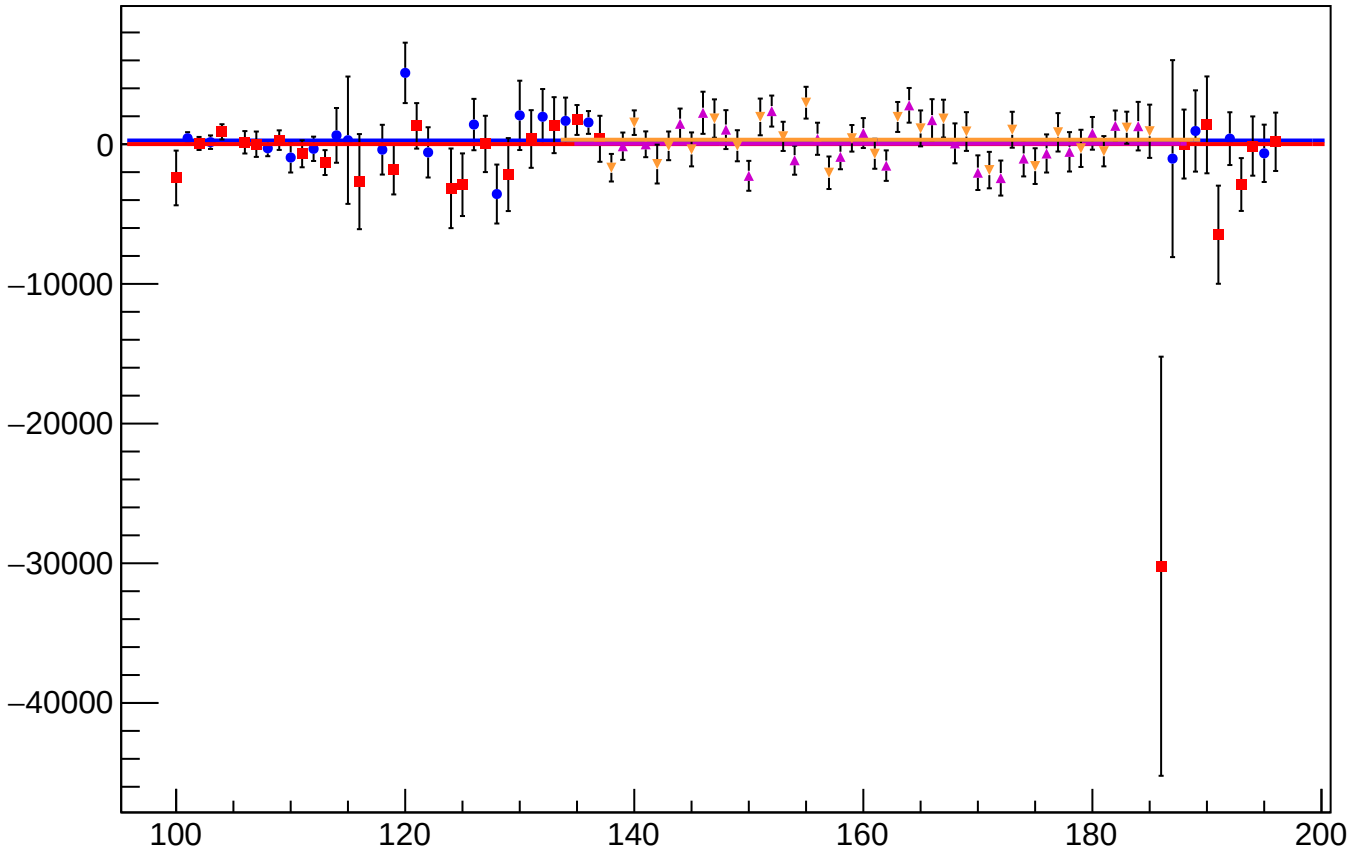
Left: 159.286+/-0.018 $\chi^2$/NDF: 652314.6/47

Right: 116.589+/-0.019 $\chi^2$/NDF: 4437992.3/45

In: 139.338+/-0.019 $\chi^2$/NDF:3120419.2/42

Out: 137.384+/-0.018 $\chi^2$/NDF:4601825.7/50

All: 138.304+/-0.013 $\chi^2$/NDF: 7727749.3/93




Right In: 264.817+/-226.740 $\chi^2$/NDF: 16.8/19

Left Out: 319.947+/-235.084 $\chi^2$/NDF:32.5/24

Right Out: 7.504+/-225.772 $\chi^2$/NDF: 26.1/25

Left In: 39.197+/-244.156 $\chi^2$/NDF:34.8/22

Left: 184.885+/-169.346 $\chi^2$/NDF: 68.0/47

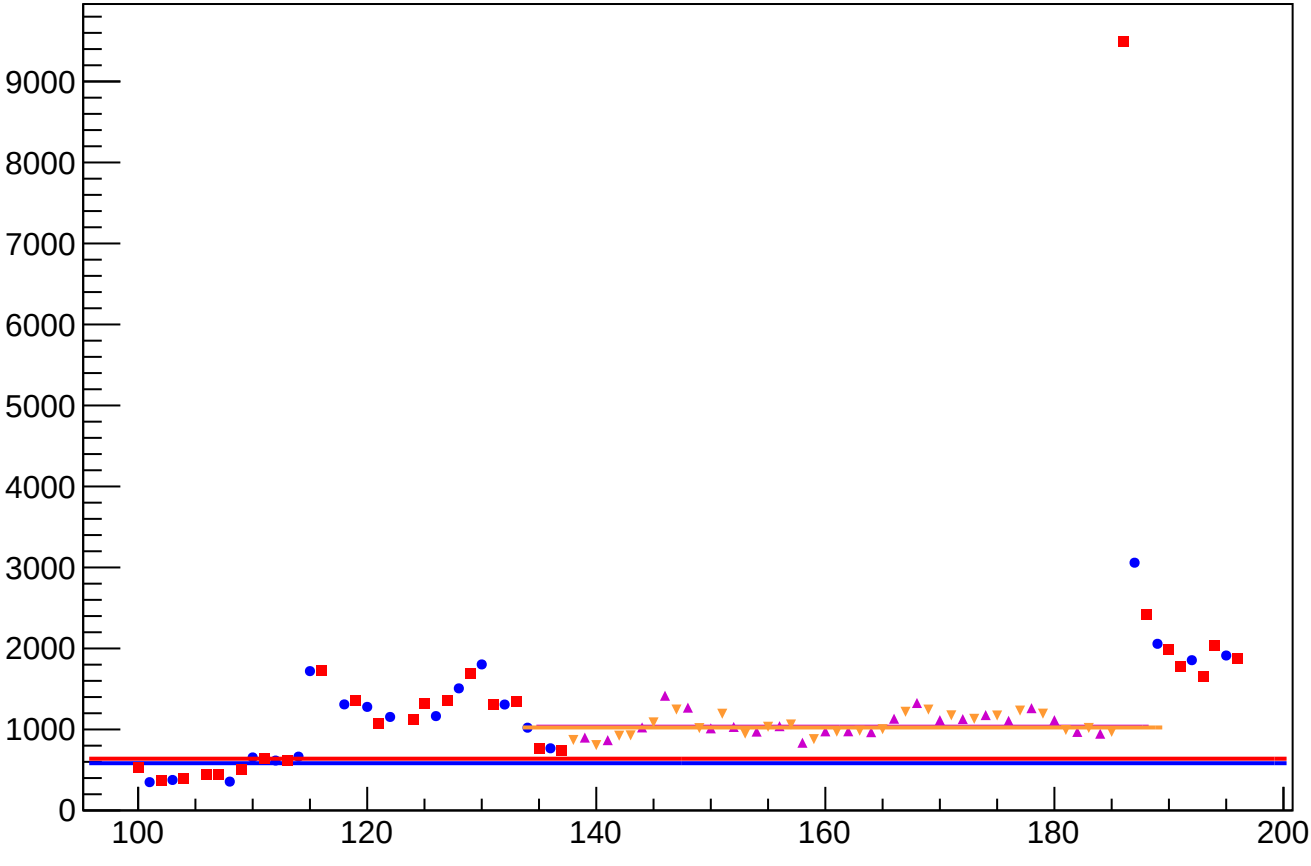
Right: 135.610+/-159.986 $\chi^2$/NDF: 43.5/45

In: 160.340+/-166.146 $\chi^2$/NDF:52.0/42

Out: 157.415+/-162.837 $\chi^2$/NDF:59.5/50

All: 158.848+/-116.295 $\chi^2$/NDF: 111.5/93

# asym_sam6_reg_correction_rms vs Slug, Sign Corrected




Right In: 583.357+/-0.160 $\chi^2$/NDF: 6223916.7/19

Left Out: 1024.493+/-0.166 $\chi^2$/NDF:597629.4/24

Right Out: 639.030+/-0.160 $\chi^2$/NDF: 7717664.4/25

Left In: 1034.428+/-0.173 $\chi^2$/NDF:628477.2/22

Left: 1029.272+/-0.120 $\chi^2$/NDF: 1227824.8/47

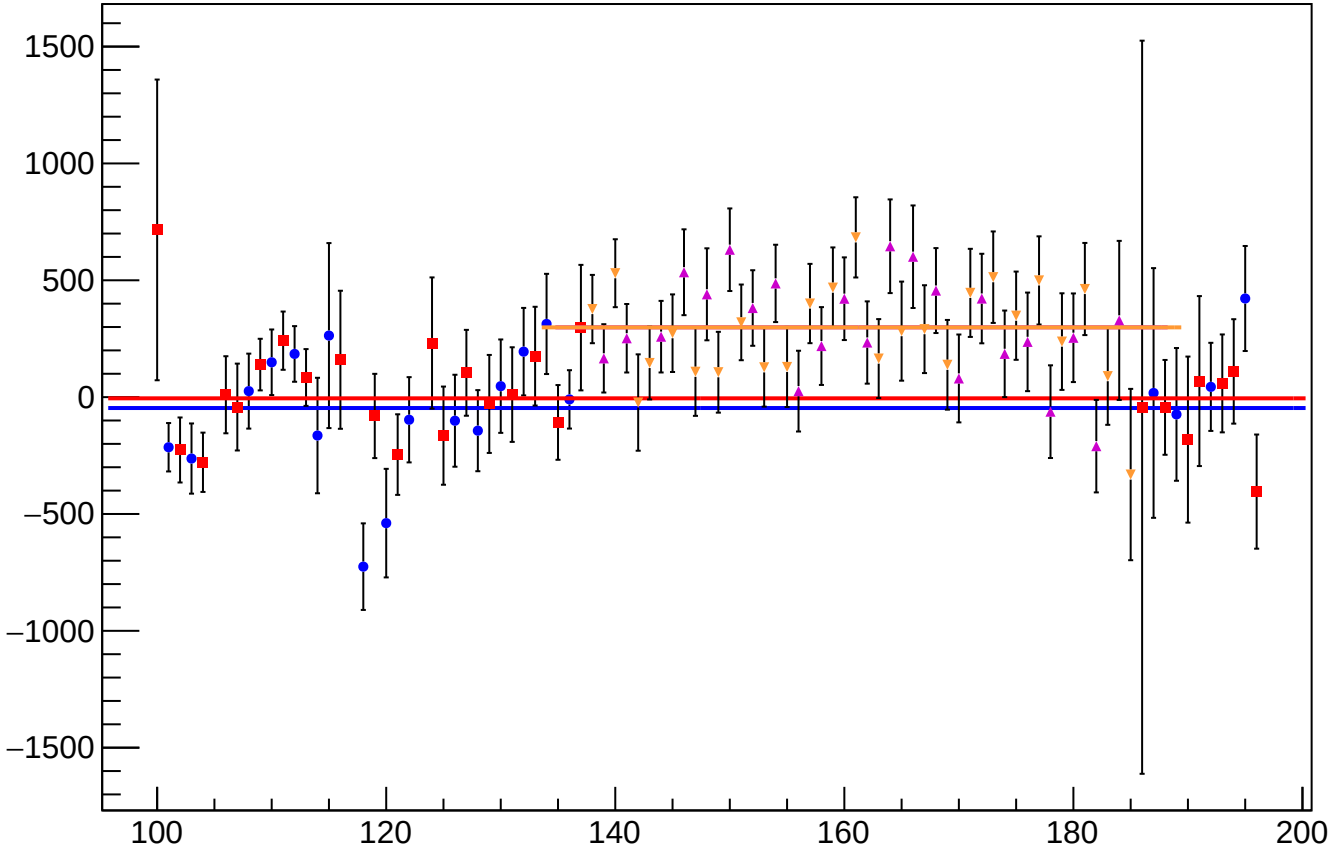
Right: 611.313+/-0.113 $\chi^2$/NDF: 14002126.6/45

In: 792.233+/-0.117 $\chi^2$/NDF:10517647.8/42

Out: 823.976+/-0.115 $\chi^2$/NDF:11112459.1/50

All: 808.423+/-0.082 $\chi^2$/NDF: 21667344.2/93

# cor_asym_sam6_mean vs Slug, Sign Corrected




Right In: -46.620+/-38.909 $\chi^2$/NDF: 39.2/19

Left Out: 298.518+/-36.051 $\chi^2$/NDF:26.0/24

Right Out: -5.102+/-36.289 $\chi^2$/NDF: 24.5/25

Left In: 298.682+/-37.727 $\chi^2$/NDF:29.4/22

Left: 298.597+/-26.064 $\chi^2$/NDF: 55.4/47

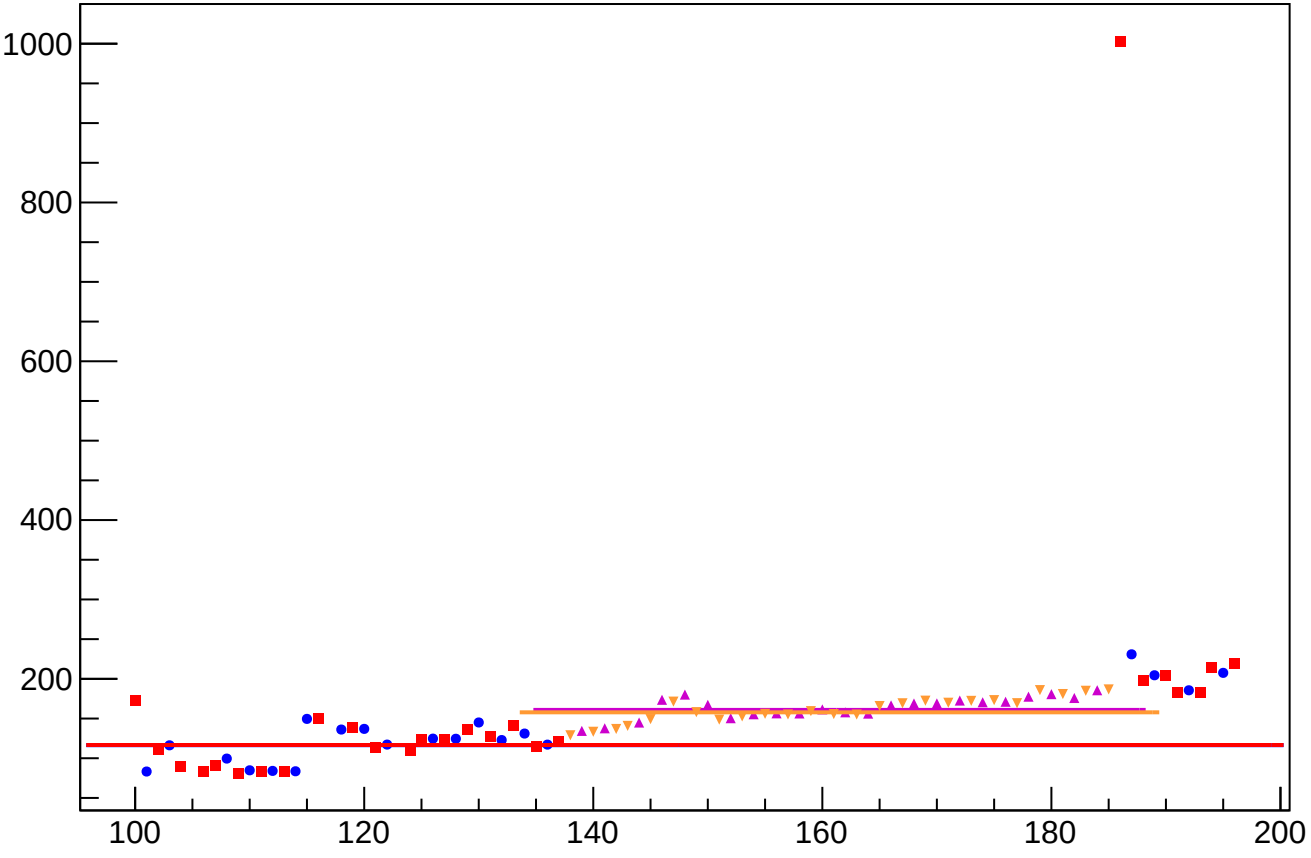
Right: -24.416+/-26.538 $\chi^2$/NDF: 64.4/45

In: 131.355+/-27.085 $\chi^2$/NDF:109.3/42

Out: 147.707+/-25.575 $\chi^2$/NDF:85.7/50

All: 139.999+/-18.595 $\chi^2$/NDF: 195.2/93

# cor_asym_sam6_rms vs Slug, Sign Corrected




Right In: 116.431+/-0.028 $\chi^2$/NDF: 1507150.7/19

Left Out: 157.836+/-0.025 $\chi^2$/NDF:377205.2/24

Right Out: 116.671+/-0.026 $\chi^2$/NDF: 2941265.2/25

Left In: 160.874+/-0.027 $\chi^2$/NDF:268330.7/22

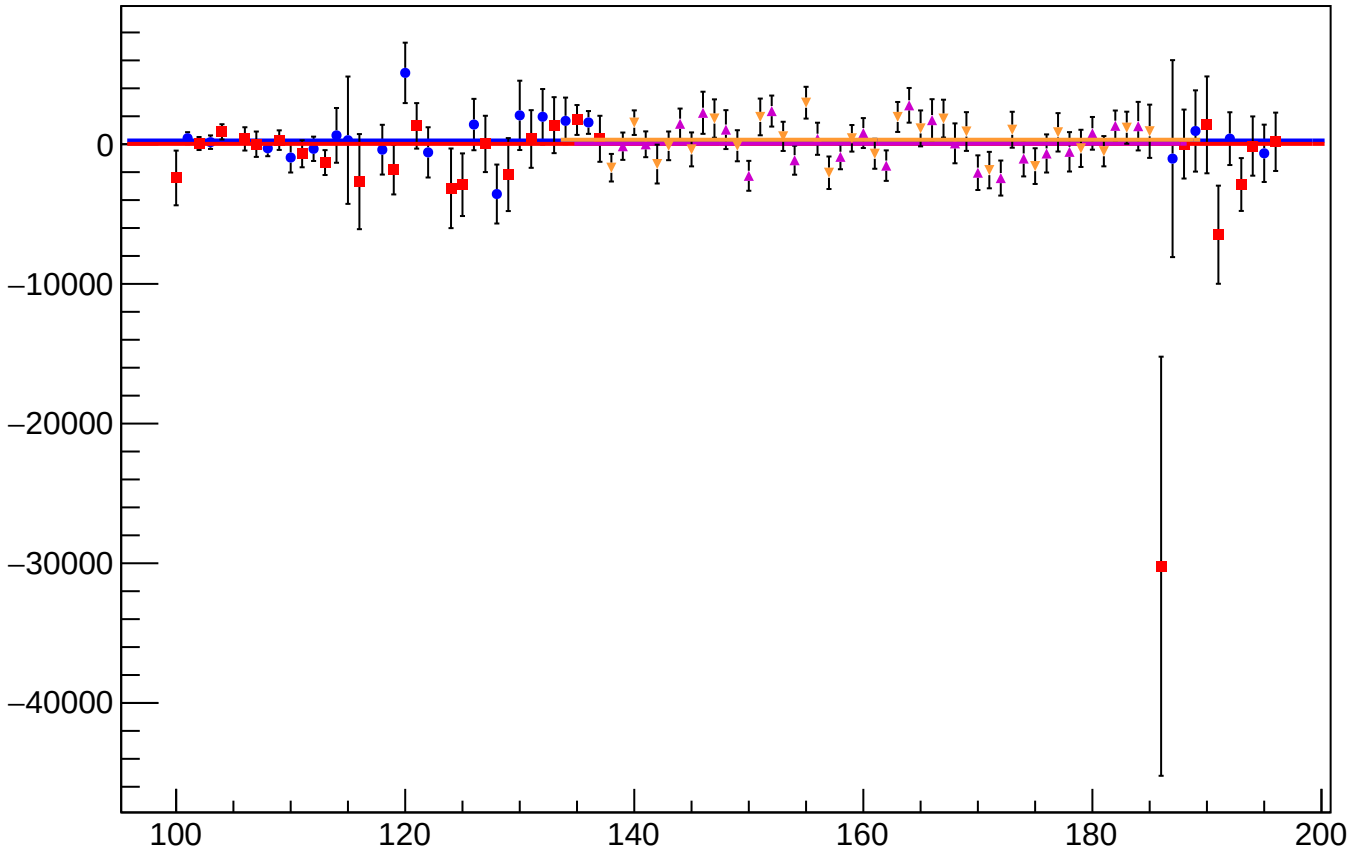
Left: 159.286+/-0.018 $\chi^2$/NDF: 652314.6/47

Right: 116.559+/-0.019 $\chi^2$/NDF: 4448456.2/45

In: 139.338+/-0.019 $\chi^2$/NDF:3120415.6/42

Out: 137.389+/-0.018 $\chi^2$/NDF:4613794.5/50

All: 138.308+/-0.013 $\chi^2$/NDF: 7739685.9/93




Right In: 264.954+/-226.733 $\chi^2$/NDF: 16.8/19

Left Out: 319.953+/-235.084 $\chi^2$/NDF:32.5/24

Right Out: 23.917+/-226.348 $\chi^2$/NDF: 26.3/25

Left In: 39.198+/-244.156 $\chi^2$/NDF:34.8/22

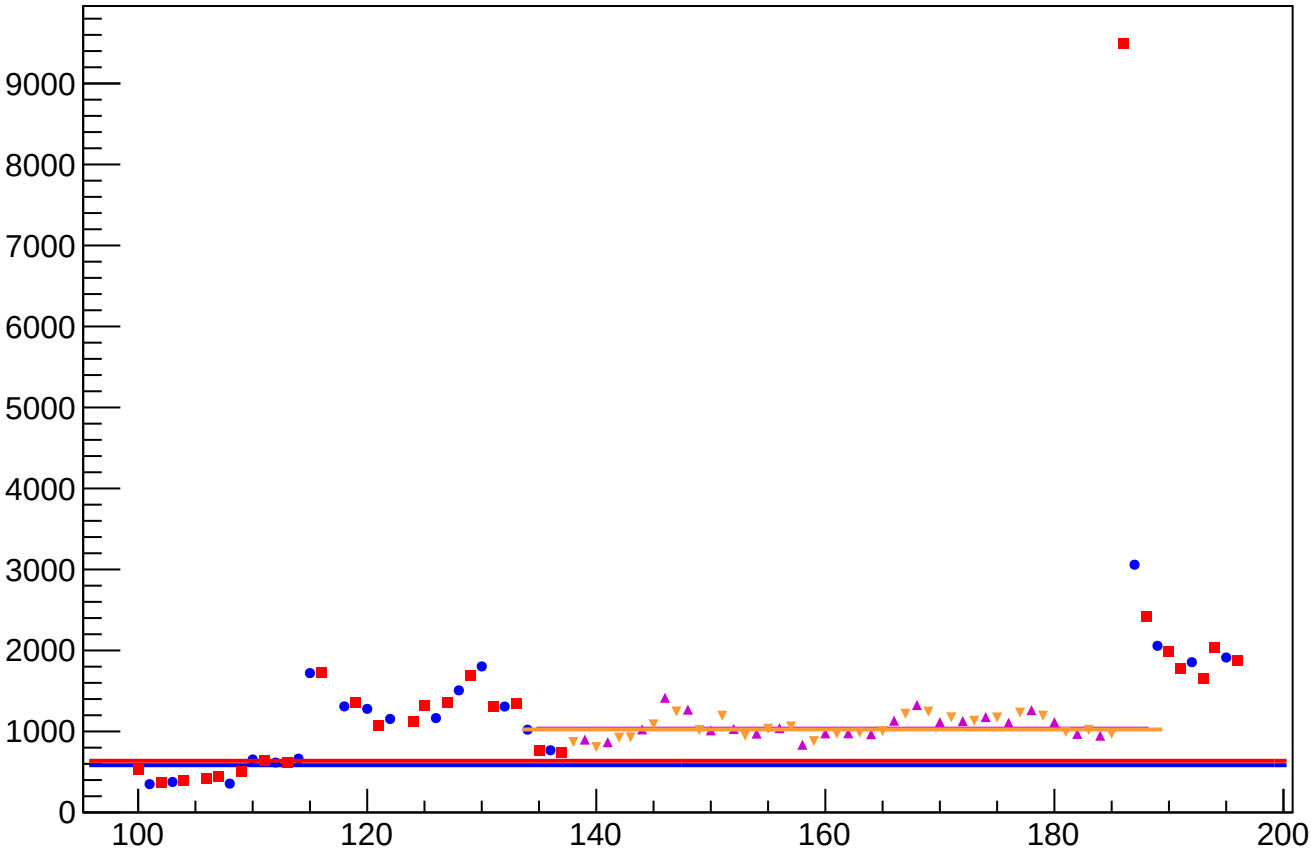
Left: 184.888+/-169.346 $\chi^2$/NDF: 68.0/47

Right: 144.230+/-160.188 $\chi^2$/NDF: 43.6/45

In: 160.417+/-166.143 $\chi^2$/NDF:52.0/42

Out: 166.332+/-163.053 $\chi^2$/NDF:59.6/50

All: 163.430+/-116.373 $\chi^2$/NDF: 111.6/93




Right In: 583.334+/-0.160 $\chi^2$/NDF: 6224198.9/19

Left Out: 1024.493+/-0.166 $\chi^2$/NDF:597629.0/24

Right Out: 637.930+/-0.160 $\chi^2$/NDF: 7745139.1/25

Left In: 1034.428+/-0.173 $\chi^2$/NDF:628474.5/22

Left: 1029.273+/-0.120 $\chi^2$/NDF: 1227821.8/47

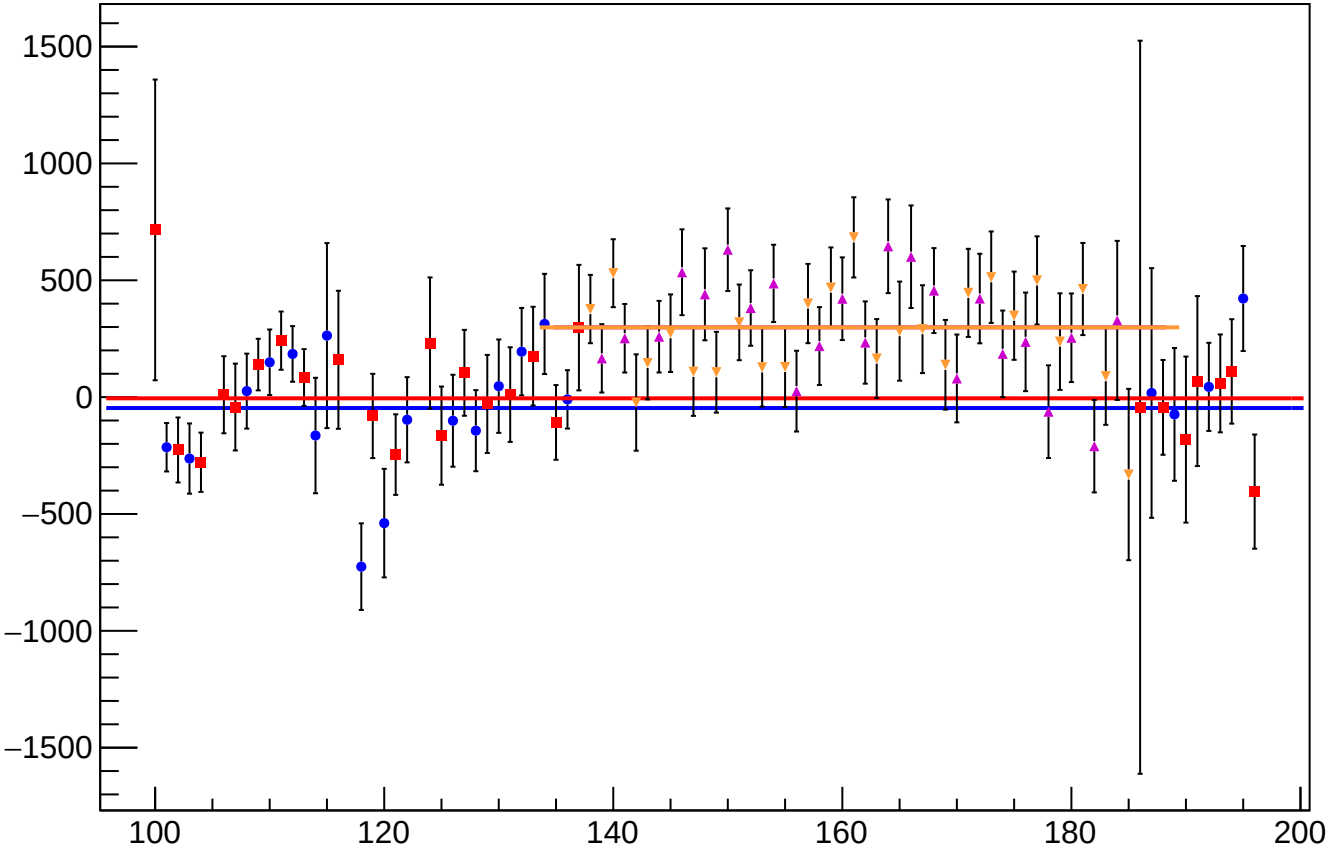
Right: 610.678+/-0.113 $\chi^2$/NDF: 14027419.4/45

In: 792.213+/-0.117 $\chi^2$/NDF:10518417.2/42

Out: 823.896+/-0.115 $\chi^2$/NDF:11149040.0/50

All: 808.352+/-0.082 $\chi^2$/NDF: 21704504.4/93

# eigen_cor_asym_sam6_mean vs Slug, Sign Corrected




Right In: -46.620+/-38.909 $\chi^2$/NDF: 39.2/19

Left Out: 298.518+/-36.051 $\chi^2$/NDF:26.0/24

Right Out: -5.102+/-36.289 $\chi^2$/NDF: 24.5/25

Left In: 298.682+/-37.727 $\chi^2$/NDF:29.4/22

Left: 298.597+/-26.064 $\chi^2$/NDF: 55.4/47

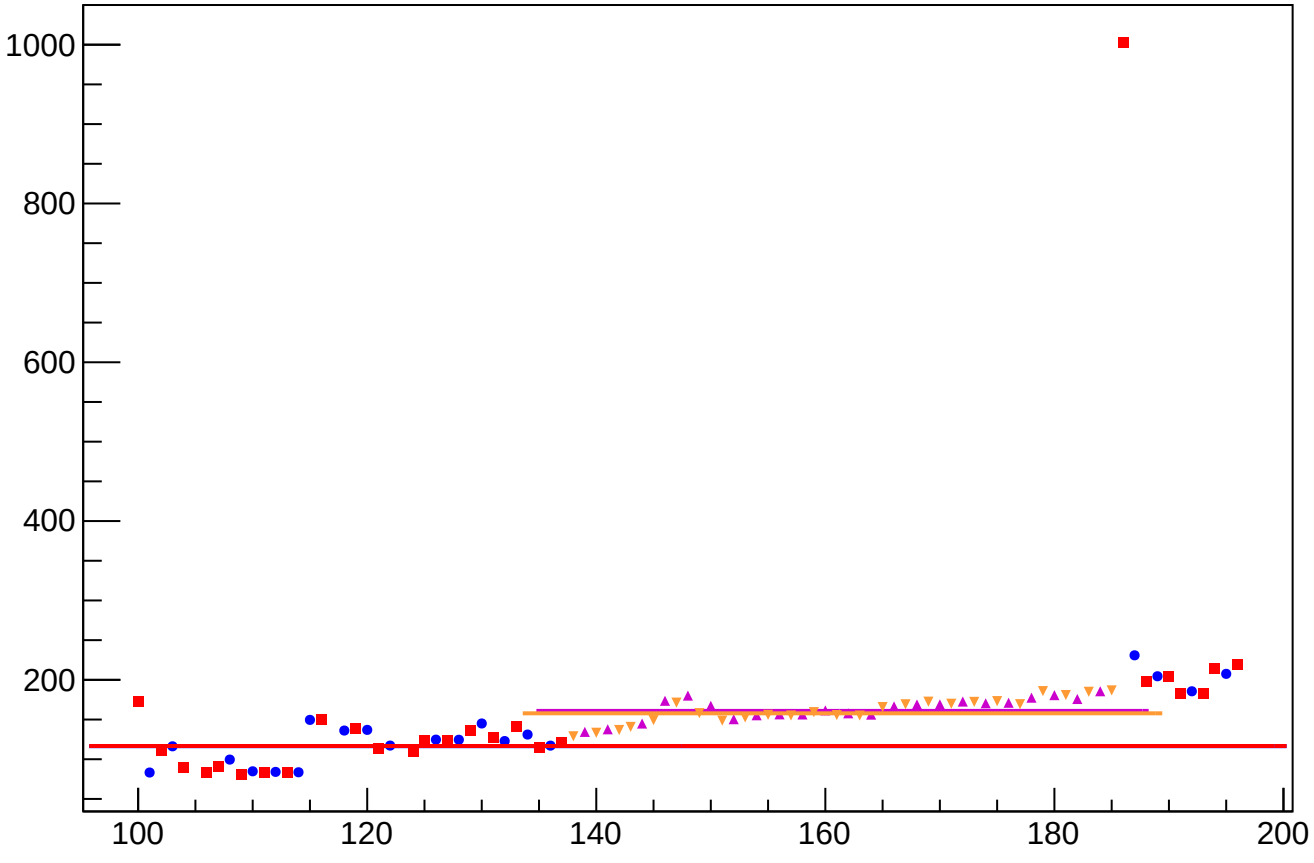
Right: -24.416+/-26.538 $\chi^2$/NDF: 64.4/45

In: 131.355+/-27.085 $\chi^2$/NDF:109.3/42

Out: 147.707+/-25.575 $\chi^2$/NDF:85.7/50

All: 139.999+/-18.595 $\chi^2$/NDF: 195.2/93

# eigen_cor_asym_sam6_rms vs Slug, Sign Corrected




Right In: 116.431+/-0.028 $\chi^2$/NDF: 1507150.7/19

Left Out: 157.836+/-0.025 $\chi^2$/NDF:377205.2/24

Right Out: 116.671+/-0.026 $\chi^2$/NDF: 2941265.2/25

Left In: 160.874+/-0.027 $\chi^2$/NDF:268330.7/22

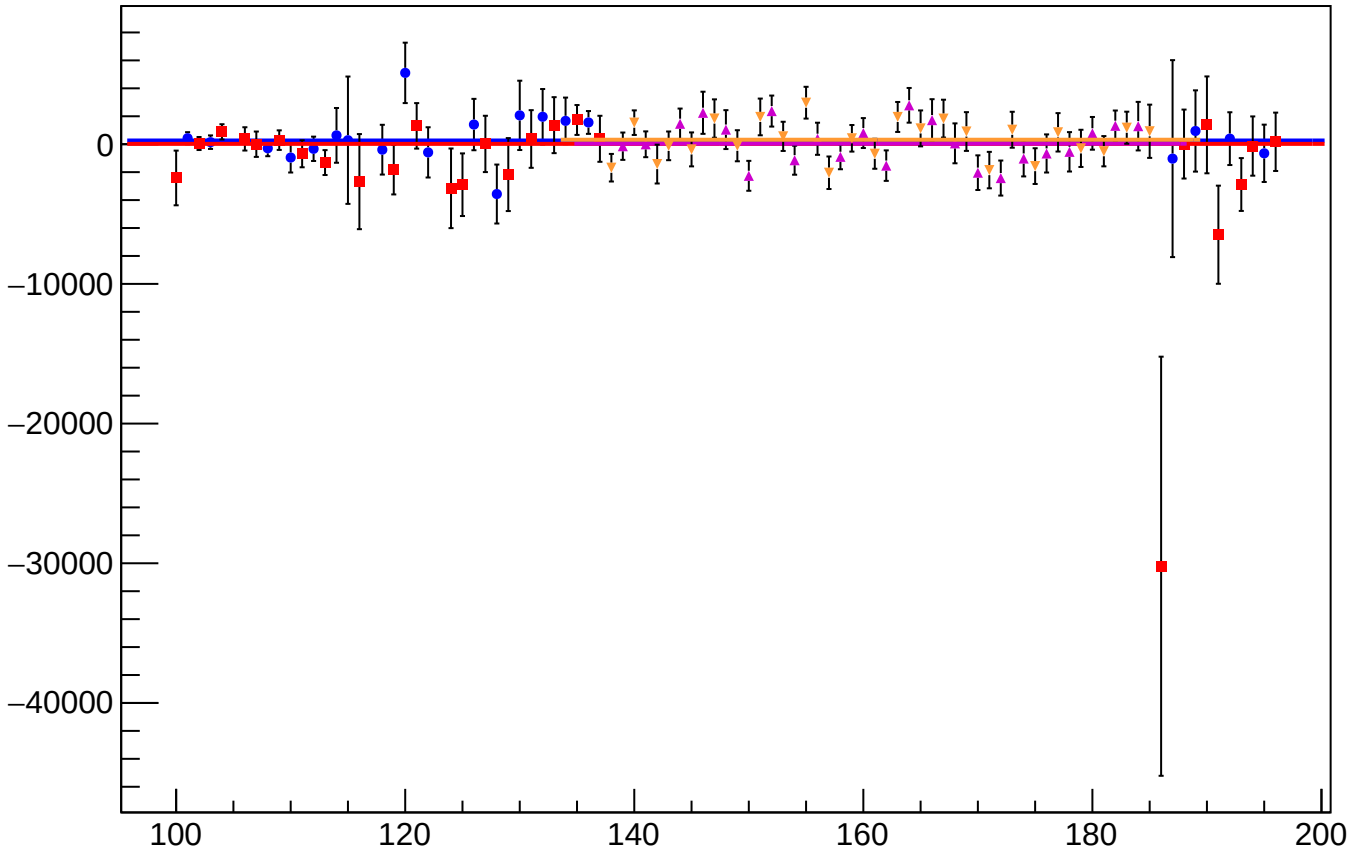
Left: 159.286+/-0.018 $\chi^2$/NDF: 652314.6/47

Right: 116.559+/-0.019 $\chi^2$/NDF: 4448456.2/45

In: 139.338+/-0.019 $\chi^2$/NDF:3120415.6/42

Out: 137.389+/-0.018 $\chi^2$/NDF:4613794.5/50

All: 138.308+/-0.013 $\chi^2$/NDF: 7739685.9/93




Right In: 264.954+/-226.733 $\chi^2$/NDF: 16.8/19

Left Out: 319.953+/-235.084 $\chi^2$/NDF:32.5/24

Right Out: 23.917+/-226.348 $\chi^2$/NDF: 26.3/25

Left In: 39.198+/-244.156 $\chi^2$/NDF:34.8/22

Left: 184.888+/-169.346 $\chi^2$/NDF: 68.0/47

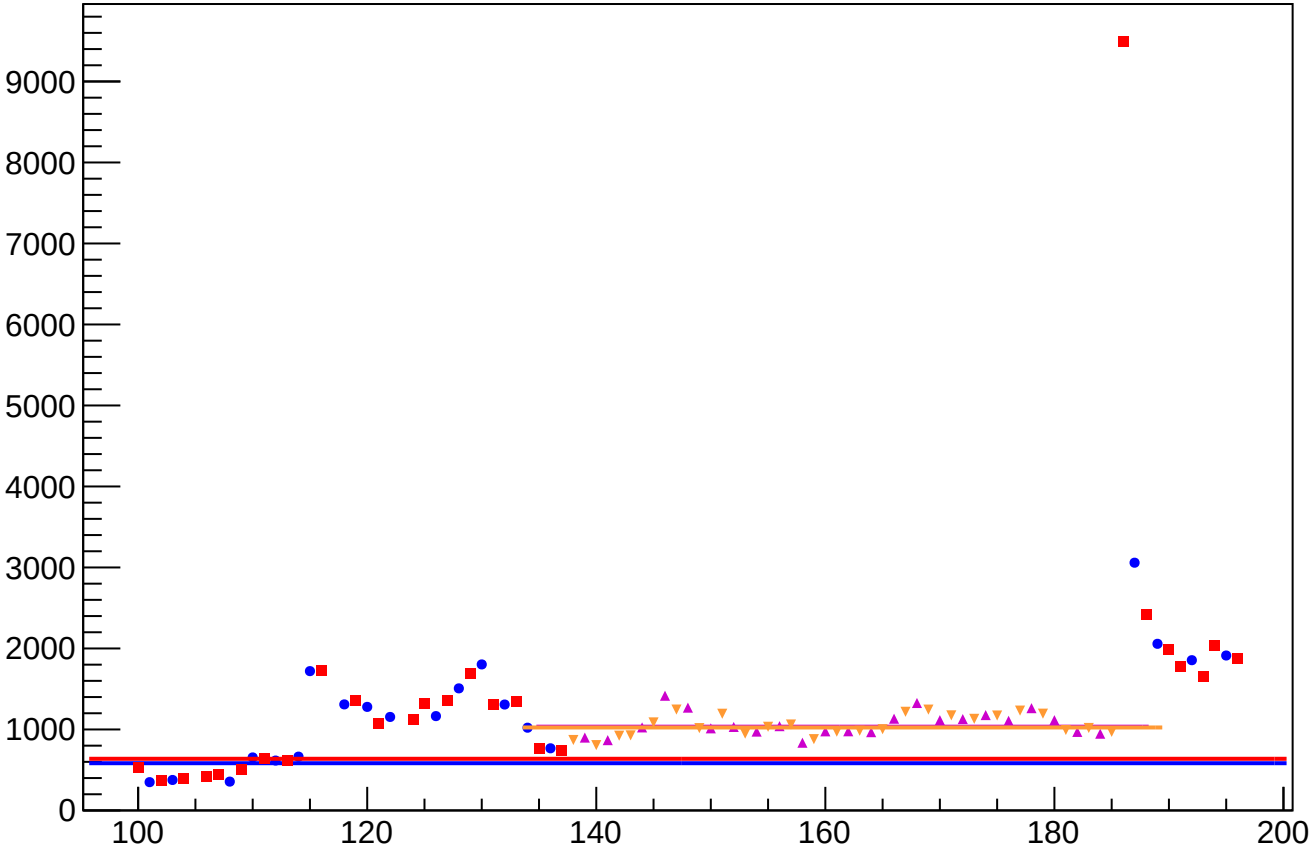
Right: 144.230+/-160.188 $\chi^2$/NDF: 43.6/45

In: 160.417+/-166.143 $\chi^2$/NDF:52.0/42

Out: 166.332+/-163.053 $\chi^2$/NDF:59.6/50

All: 163.430+/-116.373 $\chi^2$/NDF: 111.6/93

asym_sam6_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 583.334+/-0.160 $\chi^2$/NDF: 6224198.9/19

Left Out: 1024.493+/-0.166 $\chi^2$/NDF:597629.0/24

Right Out: 637.930+/-0.160 $\chi^2$/NDF: 7745139.1/25

Left In: 1034.428+/-0.173 $\chi^2$/NDF:628474.5/22

Left: 1029.273+/-0.120 $\chi^2$/NDF: 1227821.8/47

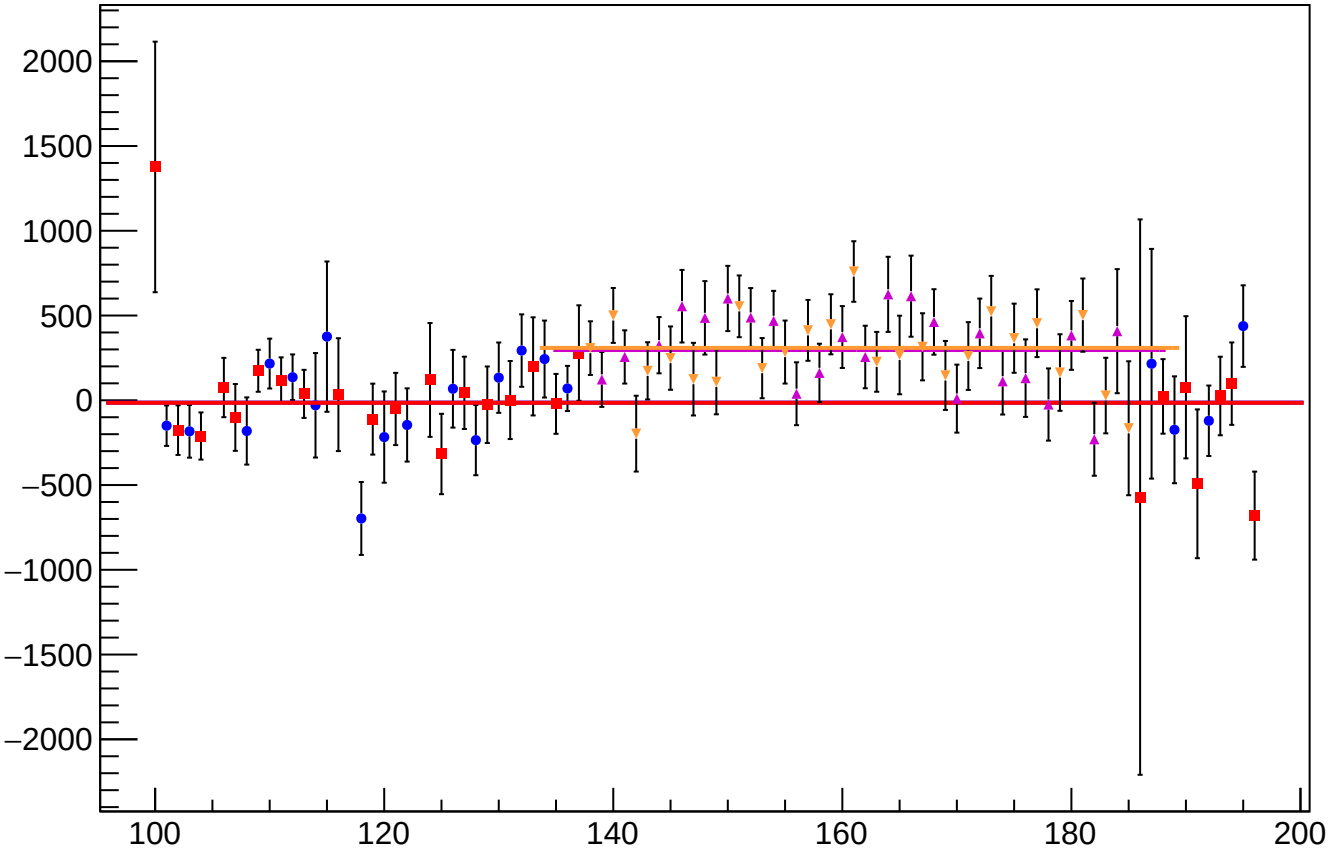
Right: 610.678+/-0.113 $\chi^2$/NDF: 14027419.4/45

In: 792.213+/-0.117 $\chi^2$/NDF:10518417.2/42

Out: 823.896+/-0.115 $\chi^2$/NDF:11149040.0/50

All: 808.352+/-0.082 $\chi^2$/NDF: 21704504.4/93

# dit_asym_sam6_mean vs Slug, Sign Corrected




Right In: -13.807+/-43.555 $\chi^2$/NDF: 28.4/19

Left Out: 309.031+/-38.901 $\chi^2$/NDF:25.6/24

Right Out: -14.738+/-40.514 $\chi^2$/NDF: 22.6/25

Left In: 296.497+/-40.607 $\chi^2$/NDF:27.8/22

Left: 303.033+/-28.091 $\chi^2$/NDF: 53.4/47

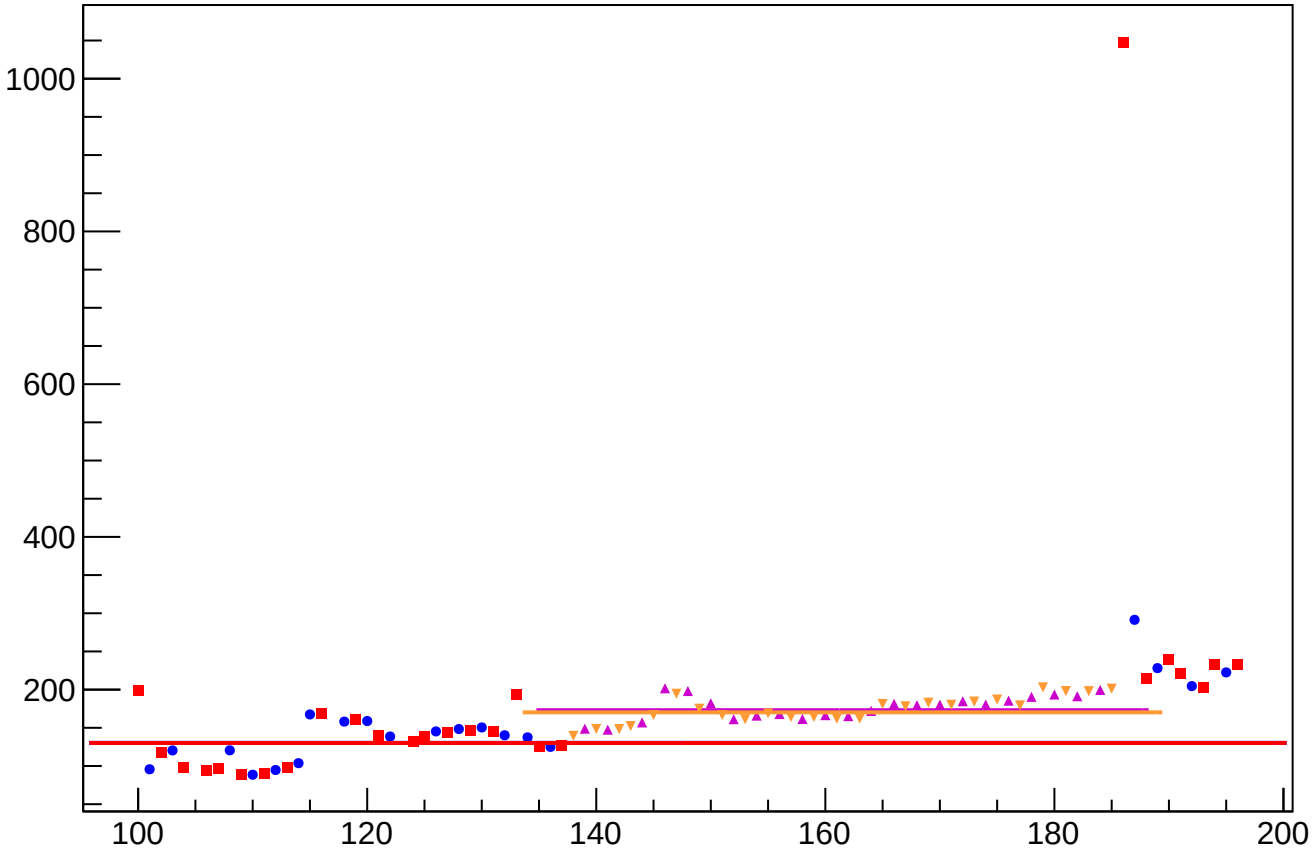
Right: -14.307+/-29.665 $\chi^2$/NDF: 51.0/45

In: 152.202+/-29.701 $\chi^2$/NDF:83.4/42

Out: 153.721+/-28.060 $\chi^2$/NDF:81.4/50

All: 153.005+/-20.397 $\chi^2$/NDF: 164.8/93

# dit_asym_sam6_rms vs Slug, Sign Corrected




Right In: 130.261+/-0.031 $\chi^2$/NDF: 1477785.7/19

Left Out: 170.240+/-0.028 $\chi^2$/NDF:366302.5/24

Right Out: 130.174+/-0.029 $\chi^2$/NDF: 3013741.0/25

Left In: 173.024+/-0.029 $\chi^2$/NDF:293702.8/22

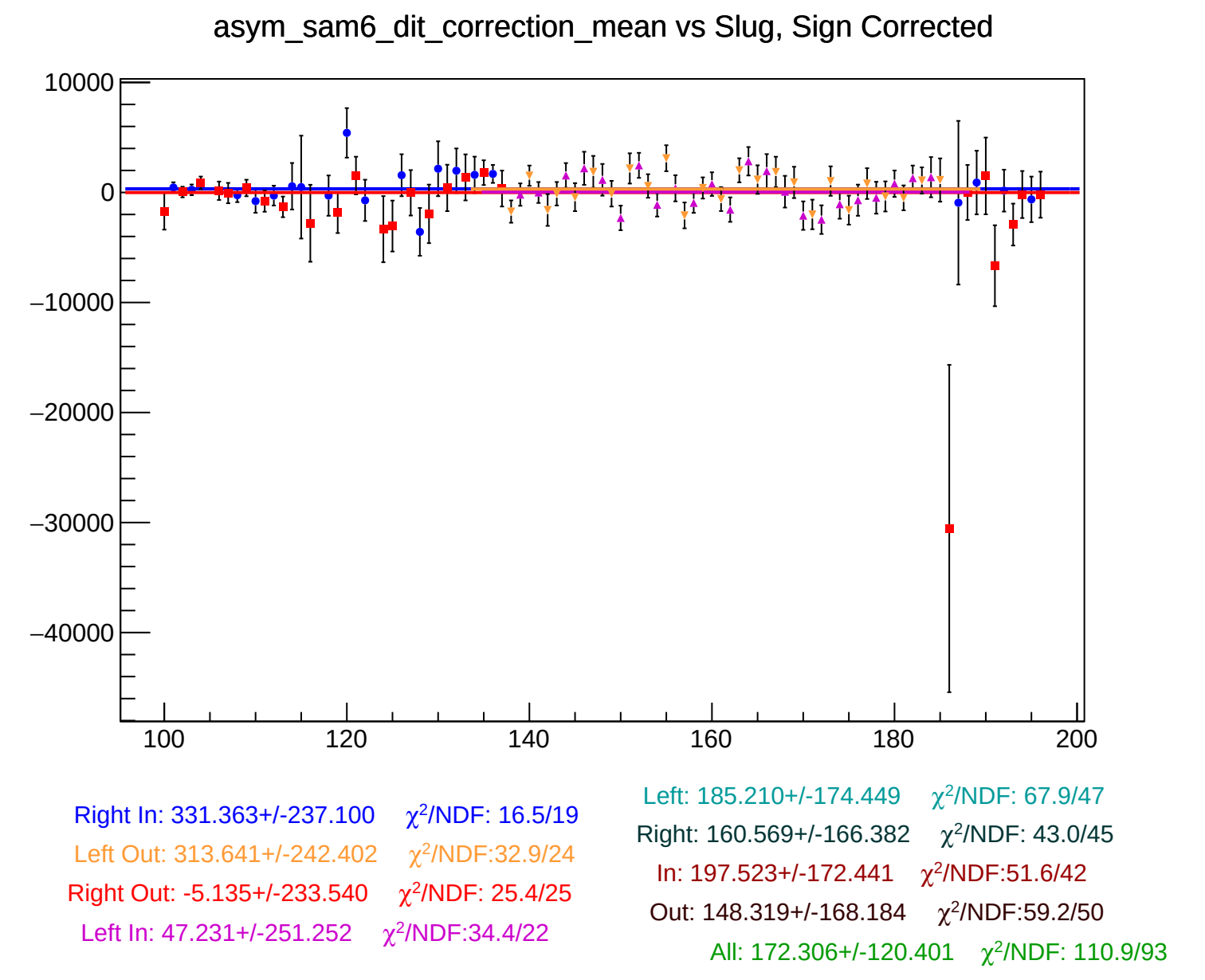
Left: 171.572+/-0.020 $\chi^2$/NDF: 664905.1/47

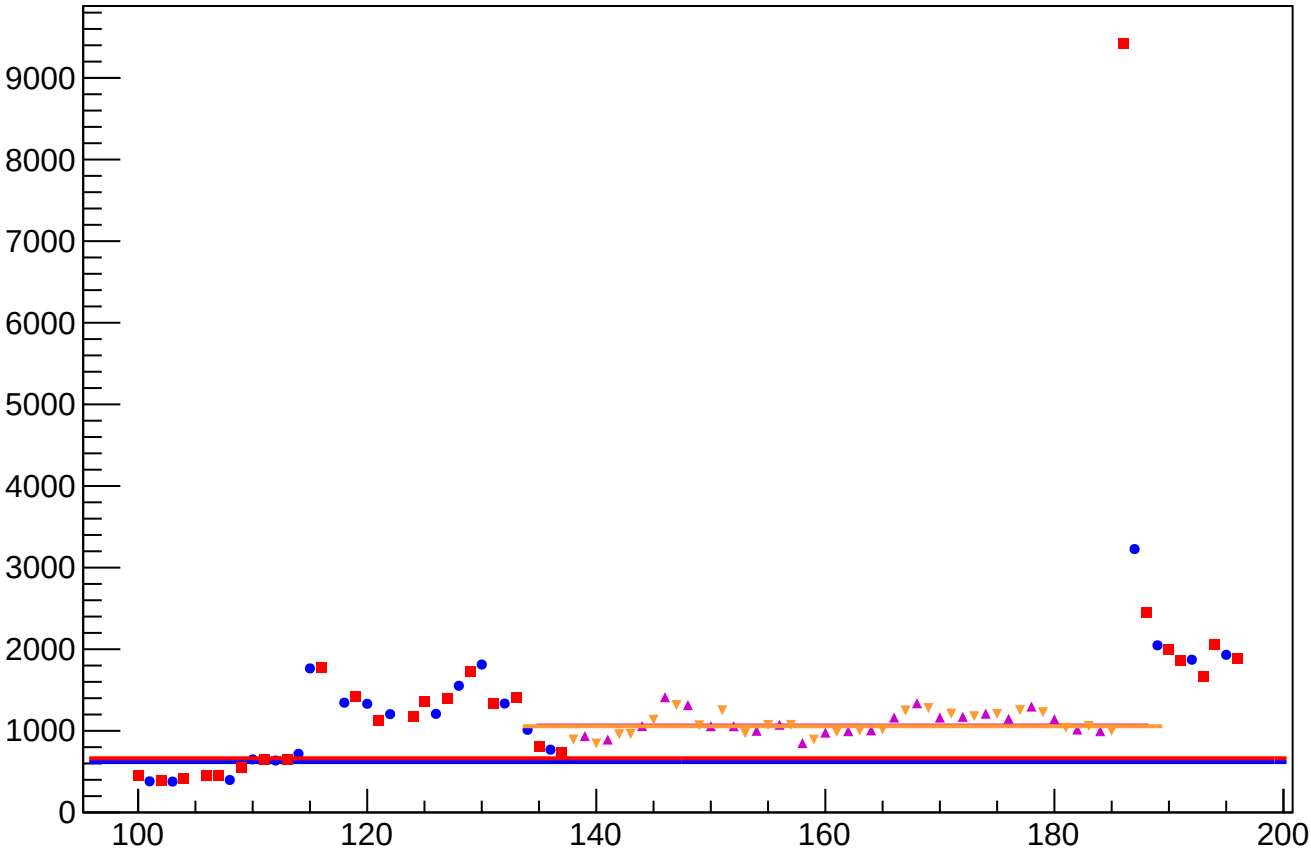
Right: 130.215+/-0.021 $\chi^2$/NDF: 4491531.0/45

In: 153.139+/-0.021 $\chi^2$/NDF:2802870.2/42

Out: 151.021+/-0.020 $\chi^2$/NDF:4397786.8/50

All: 152.020+/-0.014 $\chi^2$/NDF: 7206030.9/93


asym_sam6_dit_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: 331.363+/-237.100 χ²/NDF: 16.5/19
Left Out: 313.641+/-242.402 χ²/NDF:32.9/24
Right Out: -5.135+/-233.540 χ²/NDF: 25.4/25
Left In: 47.231+/-251.252 χ²/NDF:34.4/22
Left: 185.210+/-174.449 χ²/NDF: 67.9/47
Right: 160.569+/-166.382 χ²/NDF: 43.0/45
In: 197.523+/-172.441 χ²/NDF:51.6/42
Out: 148.319+/-168.184 χ²/NDF:59.2/50
All: 172.306+/-120.401 χ²/NDF: 110.9/93




Right In: 617.388+/-0.168 $\chi^2$/NDF: 5929082.9/19

Left Out: 1056.328+/-0.171 $\chi^2$/NDF:610710.4/24

Right Out: 663.682+/-0.165 $\chi^2$/NDF: 7620560.8/25

Left In: 1064.691+/-0.178 $\chi^2$/NDF:611055.8/22

Left: 1060.360+/-0.123 $\chi^2$/NDF: 1222913.7/47

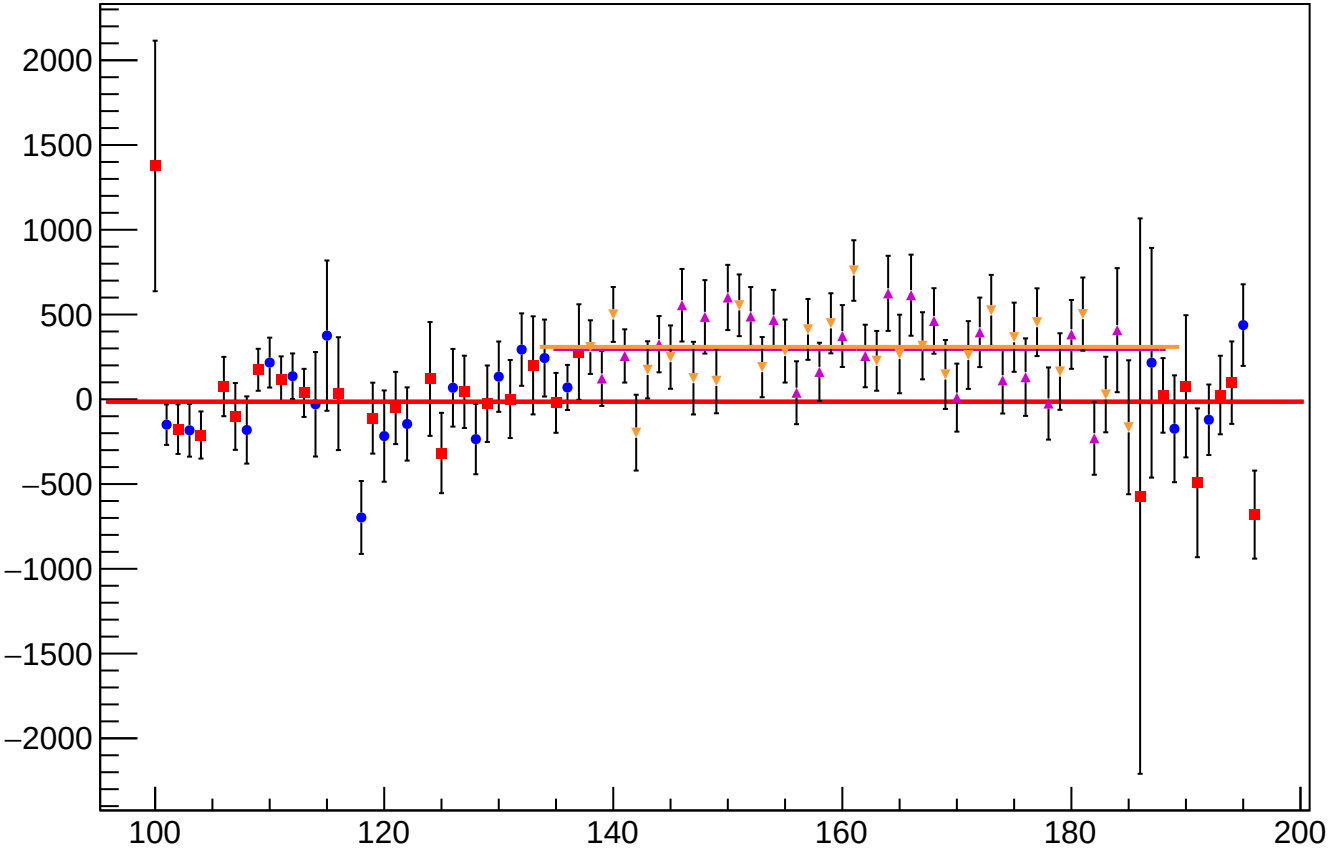
Right: 640.885+/-0.118 $\chi^2$/NDF: 13588342.5/45

In: 828.089+/-0.122 $\chi^2$/NDF:9893132.5/42

Out: 852.696+/-0.119 $\chi^2$/NDF:10952744.2/50

All: 840.700+/-0.085 $\chi^2$/NDF: 20866749.4/93

# eigen_dit_asym_sam6_mean vs Slug, Sign Corrected




Right In: -13.809+/-43.555 $\chi^2$/NDF: 28.4/19

Left Out: 309.032+/-38.901 $\chi^2$/NDF:25.6/24

Right Out: -14.738+/-40.514 $\chi^2$/NDF: 22.6/25

Left In: 296.497+/-40.607 $\chi^2$/NDF:27.8/22

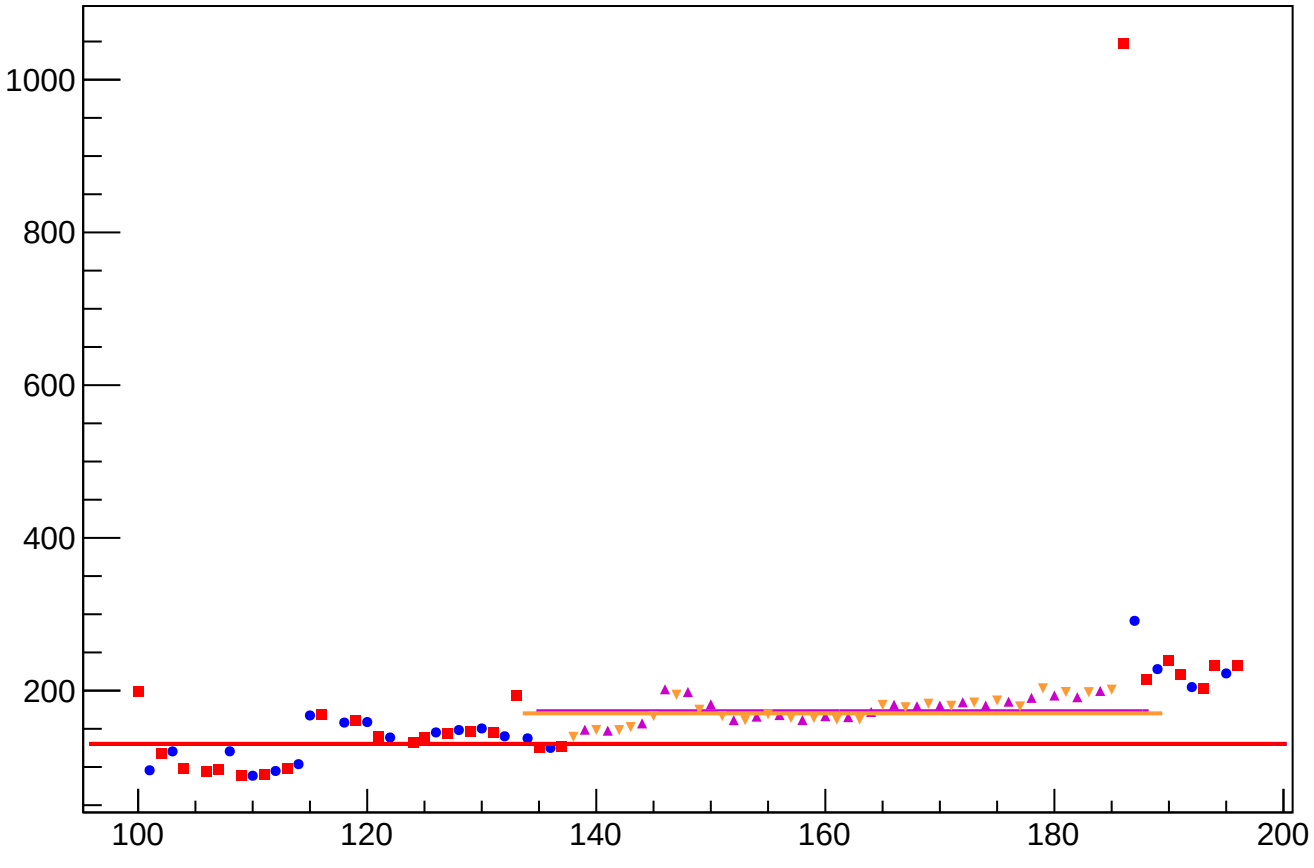
Left: 303.033+/-28.091 $\chi^2$/NDF: 53.4/47

Right: -14.307+/-29.664 $\chi^2$/NDF: 51.0/45

In: 152.201+/-29.701 $\chi^2$/NDF:83.4/42

Out: 153.722+/-28.060 $\chi^2$/NDF:81.4/50

All: 153.005+/-20.397 $\chi^2$/NDF: 164.8/93




Right In: 130.261+/-0.031 $\chi^2$/NDF: 1477793.3/19

Left Out: 170.240+/-0.028 $\chi^2$/NDF:366303.1/24

Right Out: 130.174+/-0.029 $\chi^2$/NDF: 3013740.7/25

Left In: 173.023+/-0.029 $\chi^2$/NDF:293703.4/22

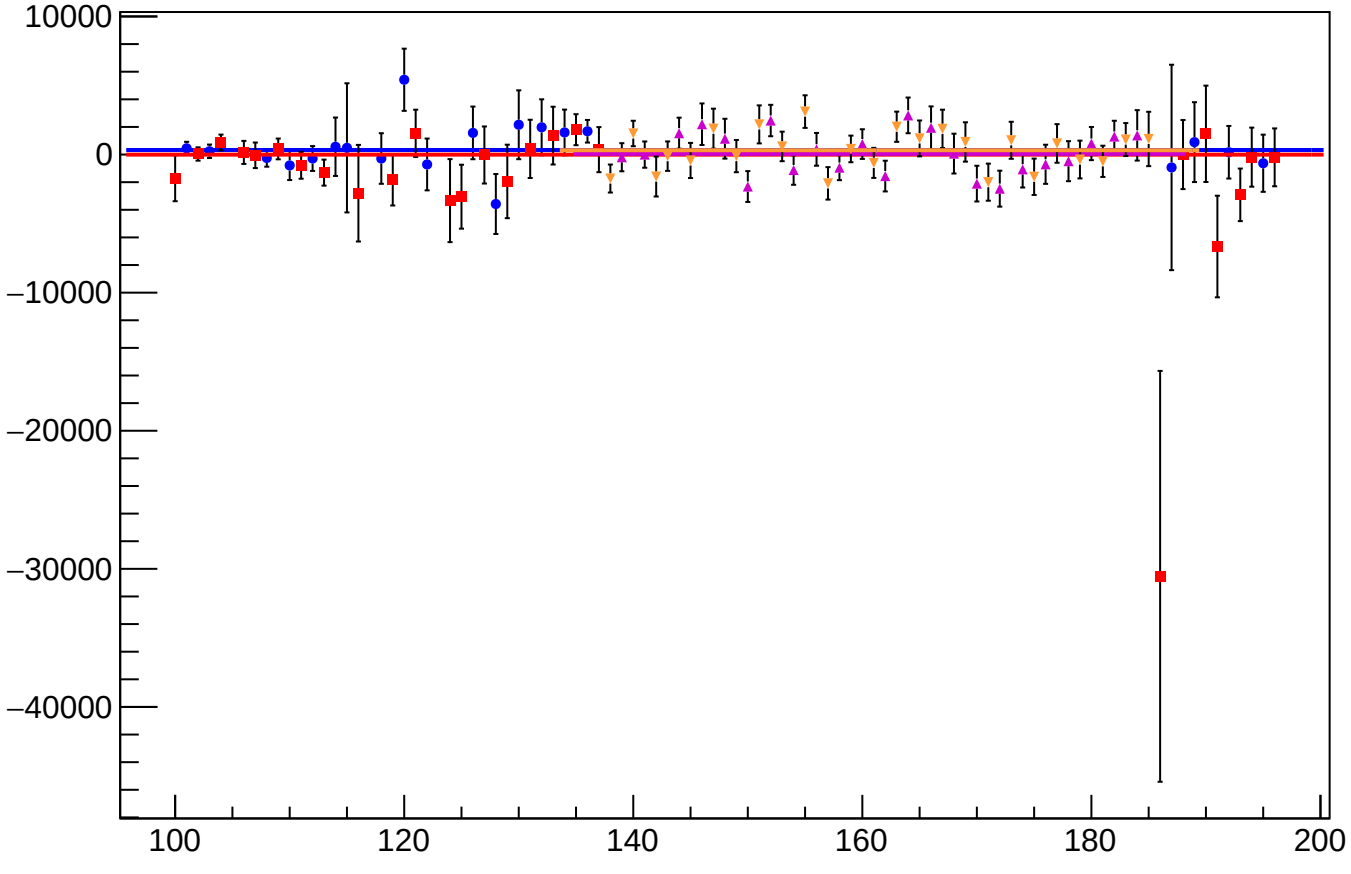
Left: 171.572+/-0.020 $\chi^2$/NDF: 664906.3/47

Right: 130.214+/-0.021 $\chi^2$/NDF: 4491538.3/45

In: 153.138+/-0.021 $\chi^2$/NDF:2802885.9/42

Out: 151.021+/-0.020 $\chi^2$/NDF:4397791.5/50

All: 152.019+/-0.014 $\chi^2$/NDF: 7206051.2/93




Right In: 331.362+/-237.100 $\chi^2$/NDF: 16.5/19

Left Out: 313.641+/-242.402 $\chi^2$/NDF:32.9/24

Right Out: -5.134+/-233.540 $\chi^2$/NDF: 25.4/25

Left In: 47.231+/-251.252 $\chi^2$/NDF:34.4/22

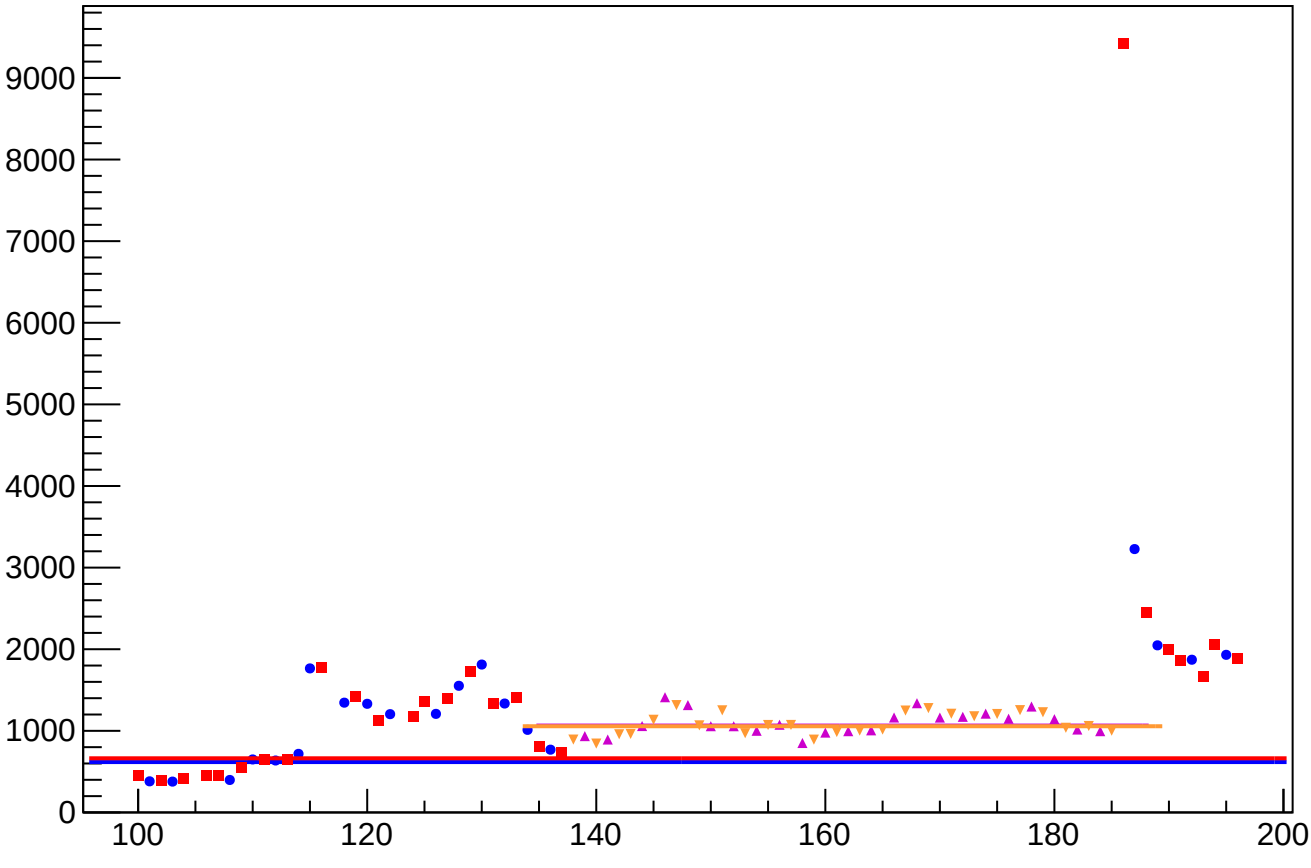
Left: 185.210+/-174.449 $\chi^2$/NDF: 67.9/47

Right: 160.569+/-166.382 $\chi^2$/NDF: 43.0/45

In: 197.523+/-172.441 $\chi^2$/NDF:51.6/42

Out: 148.320+/-168.184 $\chi^2$/NDF:59.2/50

All: 172.307+/-120.401 $\chi^2$/NDF: 110.9/93




Right In: 617.387+/-0.168 $\chi^2$/NDF: 5929089.8/19

Left Out: 1056.328+/-0.171 $\chi^2$/NDF:610715.5/24

Right Out: 663.681+/-0.165 $\chi^2$/NDF: 7620563.9/25

Left In: 1064.691+/-0.178 $\chi^2$/NDF:611059.3/22

Left: 1060.360+/-0.123 $\chi^2$/NDF: 1222922.4/47

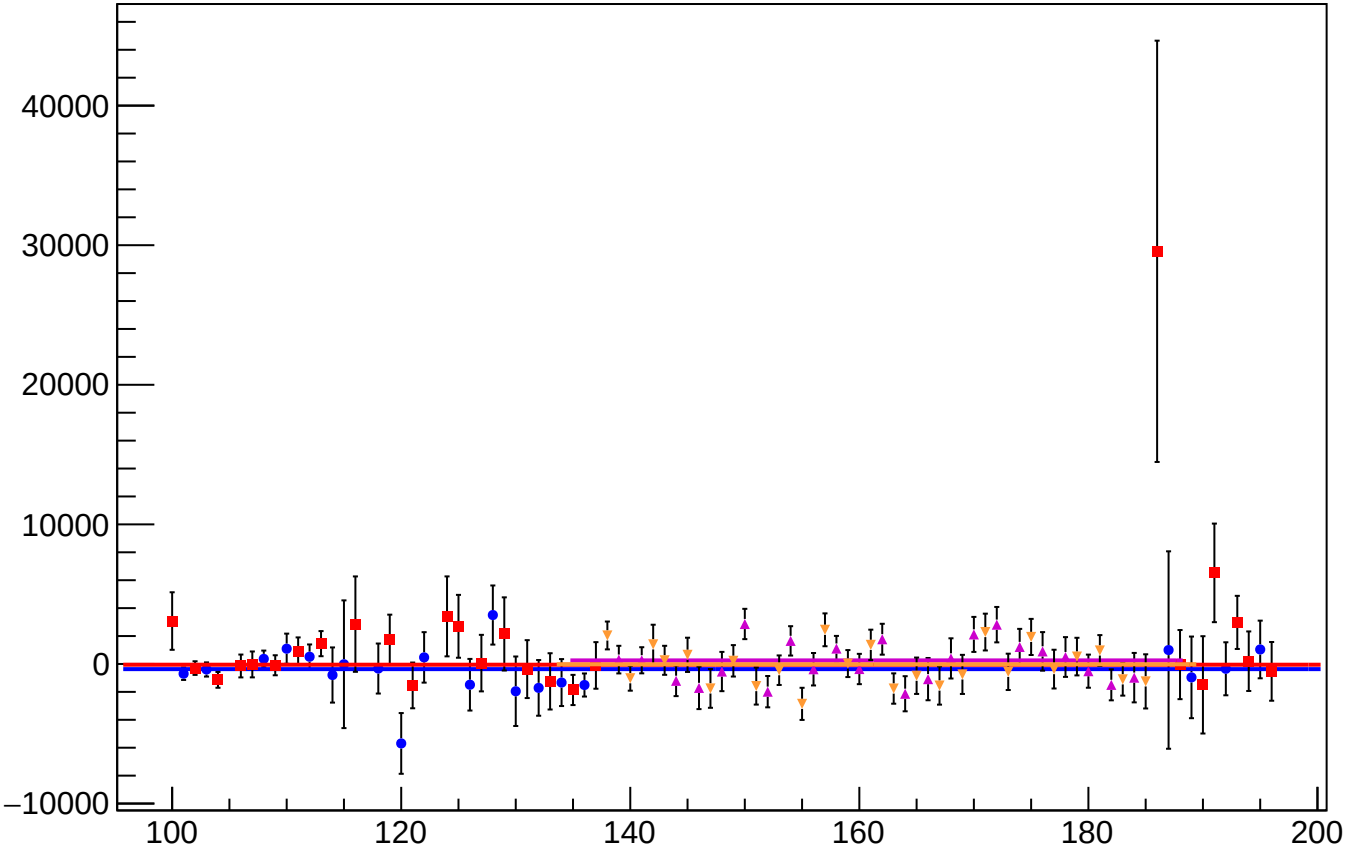
Right: 640.884+/-0.118 $\chi^2$/NDF: 13588353.0/45

In: 828.088+/-0.122 $\chi^2$/NDF:9893158.3/42

Out: 852.696+/-0.119 $\chi^2$/NDF:10952764.7/50

All: 840.700+/-0.085 $\chi^2$/NDF: 20866796.1/93

# asym_sam6_mean vs Slug, Sign Corrected




Right In: -369.869+/-233.294 $\chi^2$/NDF: 18.5/19

Left Out: -21.861+/-237.972 $\chi^2$/NDF:34.5/24

Right Out: -53.421+/-231.433 $\chi^2$/NDF: 29.6/25

Left In: 255.399+/-247.203 $\chi^2$/NDF:33.6/22

Left: 111.496+/-171.442 $\chi^2$/NDF: 68.7/47

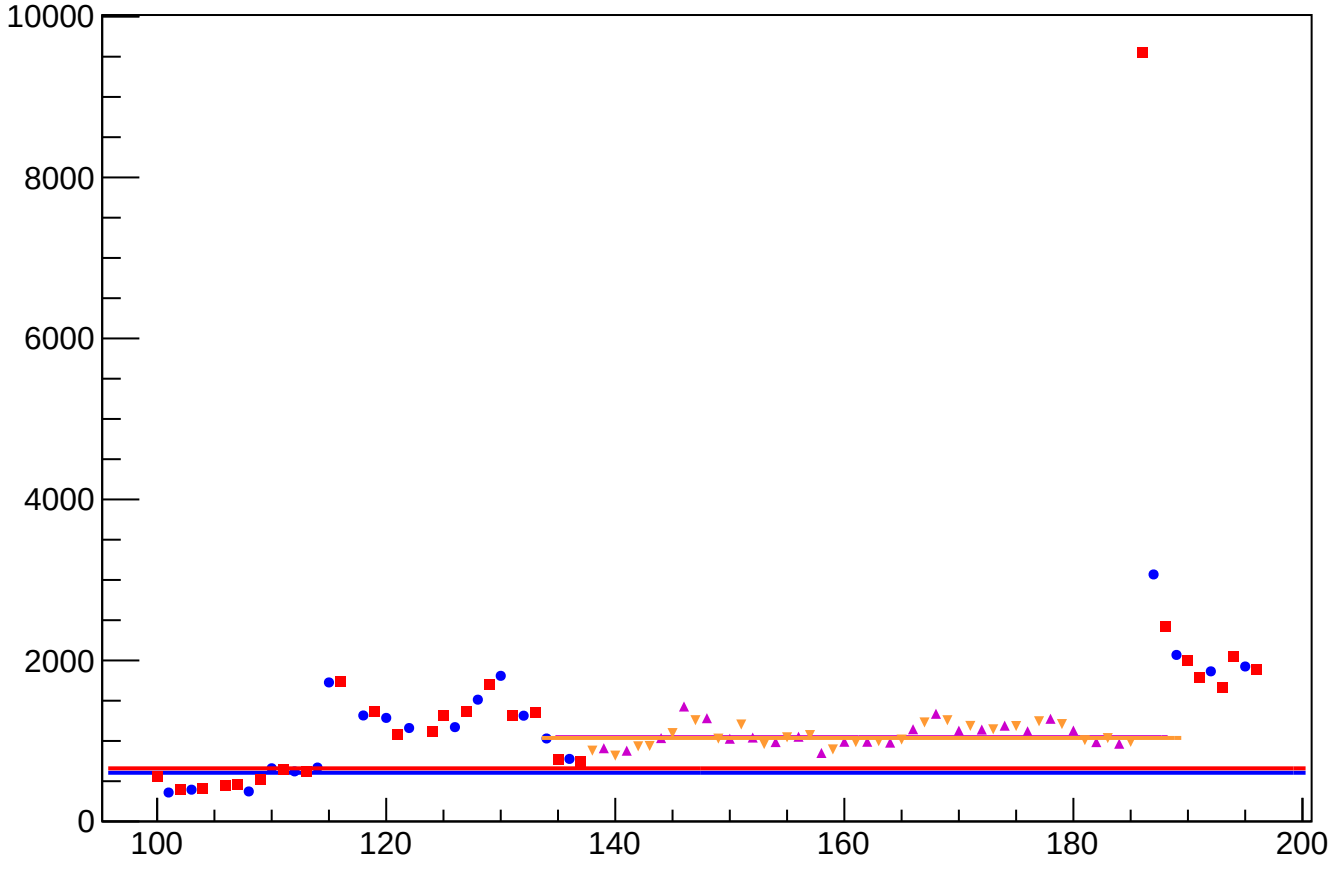
Right: -210.379+/-164.302 $\chi^2$/NDF: 49.0/45

In: -75.320+/-169.668 $\chi^2$/NDF:55.4/42

Out: -38.081+/-165.911 $\chi^2$/NDF:64.1/50

All: -56.283+/-118.623 $\chi^2$/NDF: 119.6/93

# asym_sam6_rms vs Slug, Sign Corrected




Right In: 604.903+/-0.165 $\chi^2$/NDF: 6011087.9/19

Left Out: 1037.324+/-0.168 $\chi^2$/NDF:585511.9/24

Right Out: 659.767+/-0.164 $\chi^2$/NDF: 7498216.6/25

Left In: 1047.629+/-0.175 $\chi^2$/NDF:613357.0/22

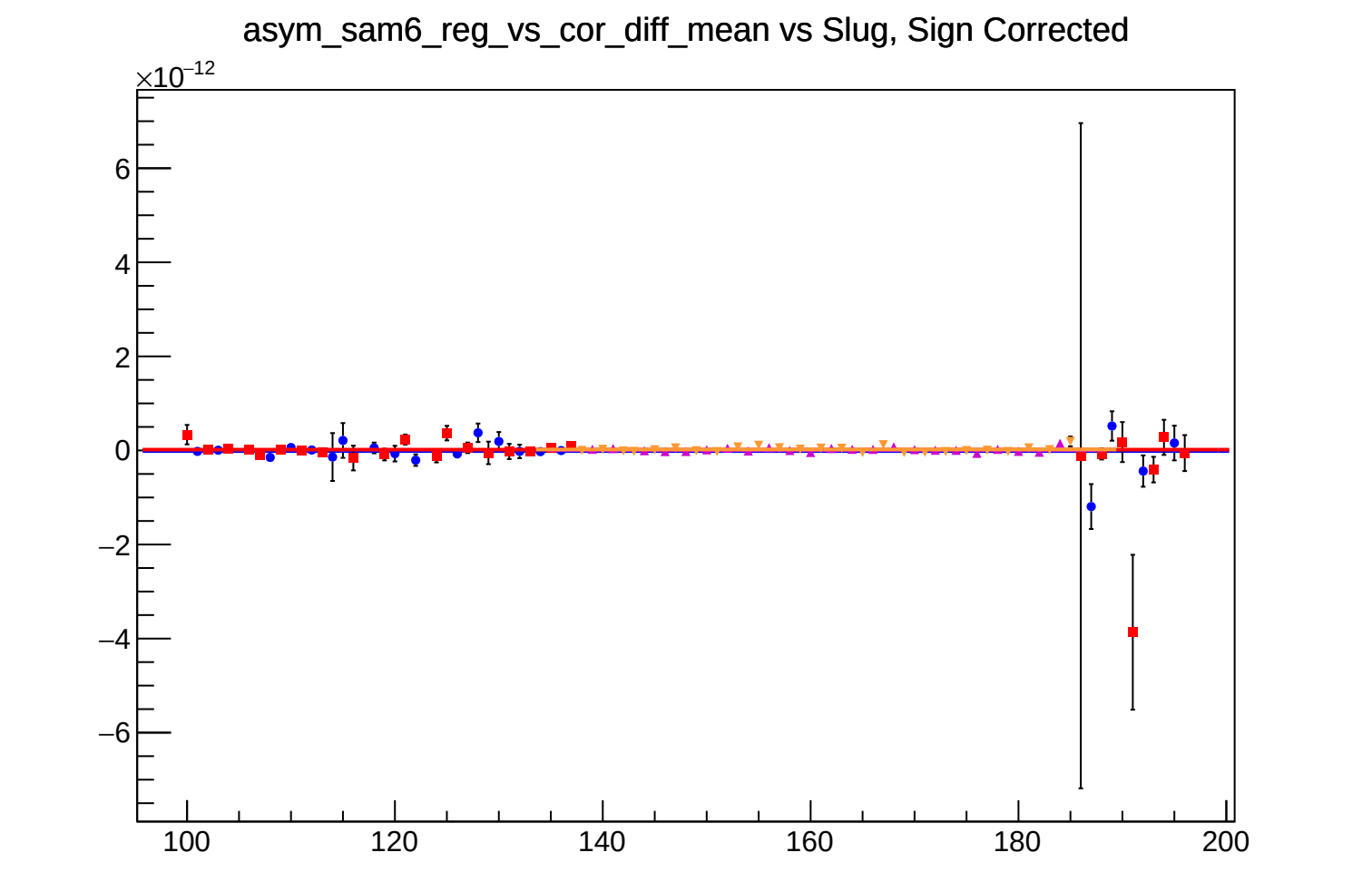
Left: 1042.281+/-0.121 $\chi^2$/NDF: 1200672.6/47

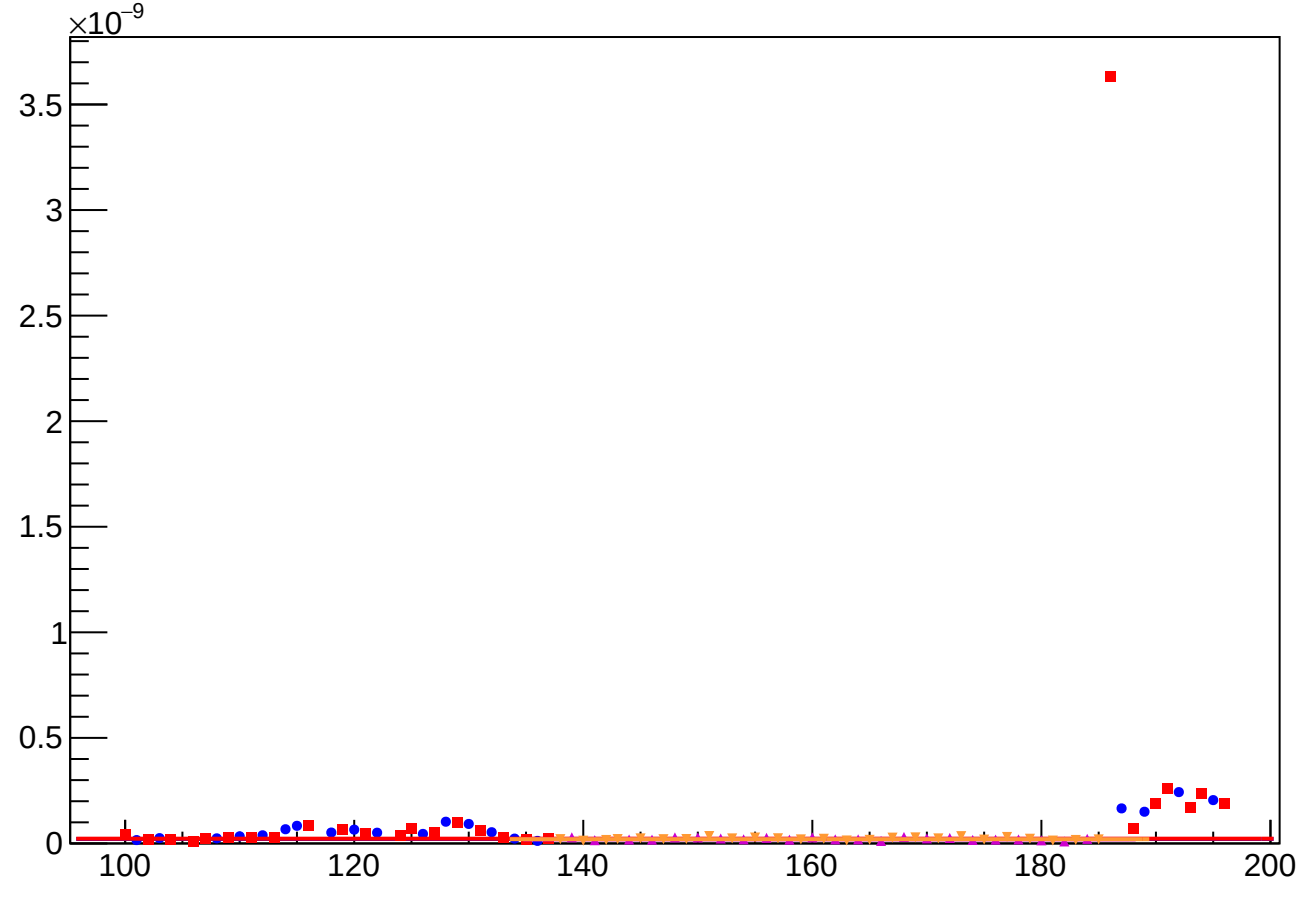
Right: 632.555+/-0.116 $\chi^2$/NDF: 13565052.0/45

In: 813.461+/-0.120 $\chi^2$/NDF:10017462.2/42

Out: 843.287+/-0.117 $\chi^2$/NDF:10671028.9/50

All: 828.708+/-0.084 $\chi^2$/NDF: 20720085.0/93


asym_sam6_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
6
4
2
0
−2
−4
−6
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 26.8/19
Left Out: 0.000+/-0.000 χ²/NDF:30.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 29.2/25
Left In: 0.000+/-0.000 χ²/NDF:18.6/22
Left: 0.000+/-0.000 χ²/NDF: 50.1/47
Right: 0.000+/-0.000 χ²/NDF: 58.6/45
In: 0.000+/-0.000 χ²/NDF:47.1/42
Out: 0.000+/-0.000 χ²/NDF:59.2/50
All: 0.000+/-0.000 χ²/NDF: 109.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3925238.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:993542.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4719666.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1048721.4/22

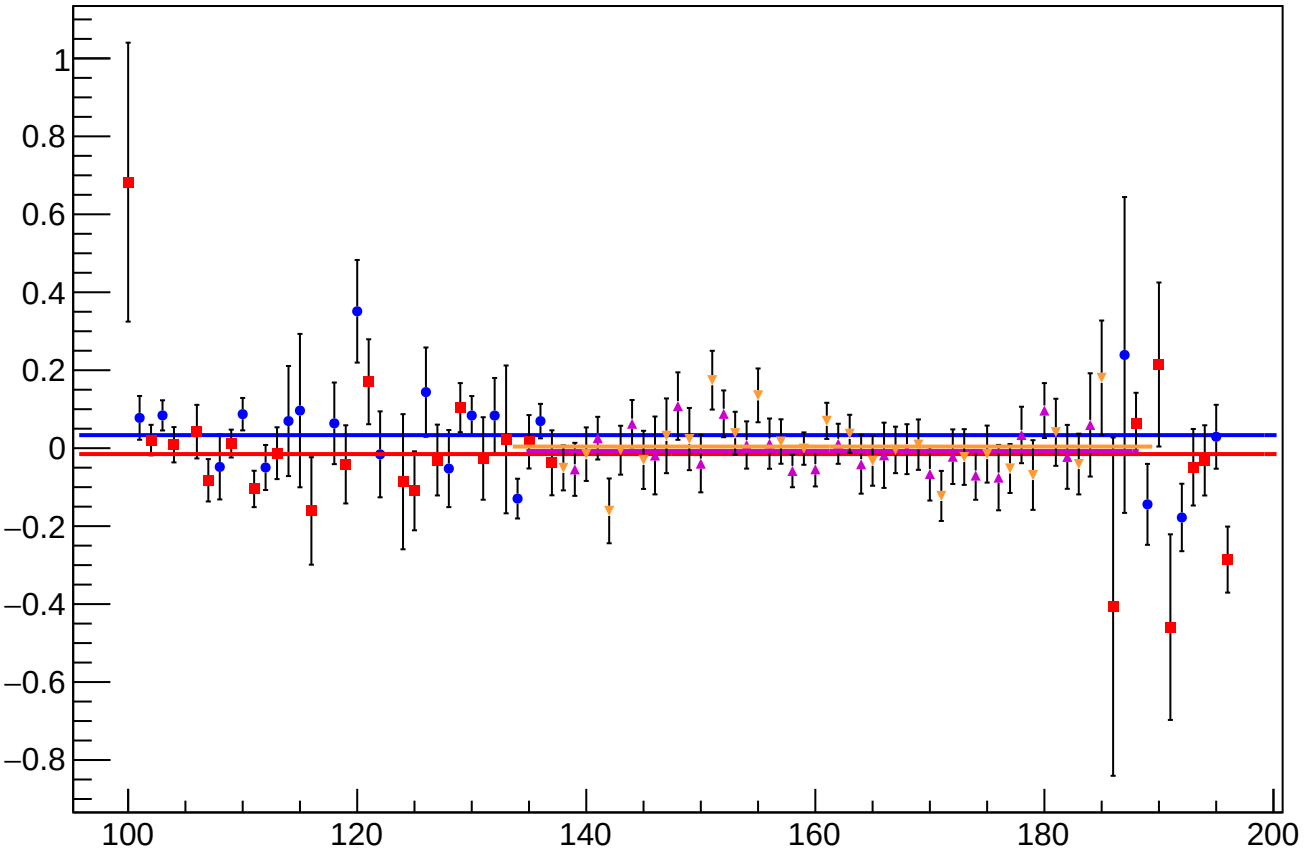
Left: 0.000+/-0.000 $\chi^2$/NDF: 2058189.4/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8656134.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:5007120.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:5758981.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 10789581.1/93




Right In: 0.033+/-0.015 $\chi^2$/NDF: 36.3/19

Left Out: 0.004+/-0.013 $\chi^2$/NDF:24.8/24

Right Out: -0.015+/-0.014 $\chi^2$/NDF: 37.2/25

Left In: -0.007+/-0.014 $\chi^2$/NDF:15.1/22

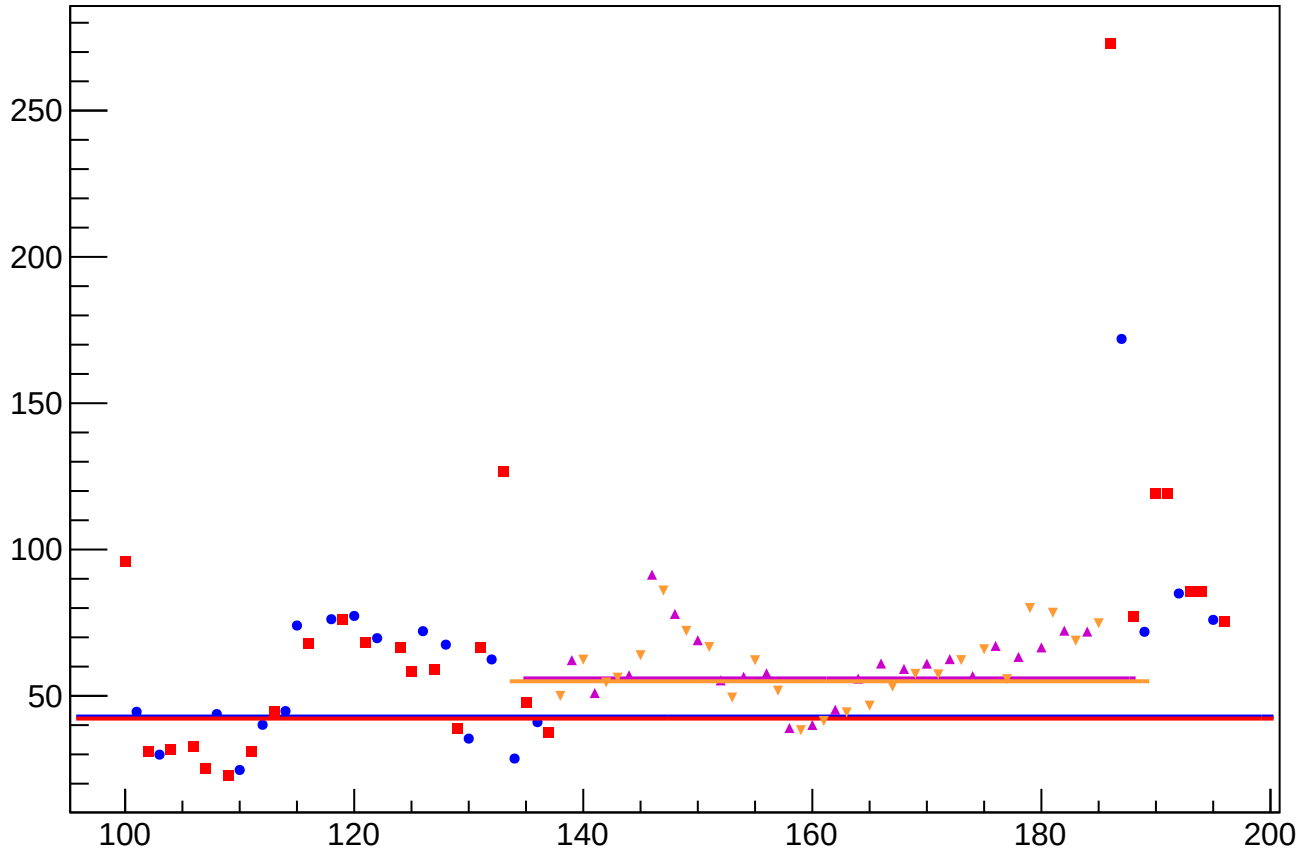
Left: -0.001+/-0.009 $\chi^2$/NDF: 40.2/47

Right: 0.007+/-0.010 $\chi^2$/NDF: 78.9/45

In: 0.011+/-0.010 $\chi^2$/NDF:55.3/42

Out: -0.005+/-0.010 $\chi^2$/NDF:63.1/50

All: 0.003+/-0.007 $\chi^2$/NDF: 119.6/93




Right In: 42.929+/-0.011 $\chi^2$/NDF: 2822683.3/19

Left Out: 54.986+/-0.009 $\chi^2$/NDF:1566844.0/24

Right Out: 42.237+/-0.010 $\chi^2$/NDF: 4947572.7/25

Left In: 55.956+/-0.010 $\chi^2$/NDF:1406142.1/22

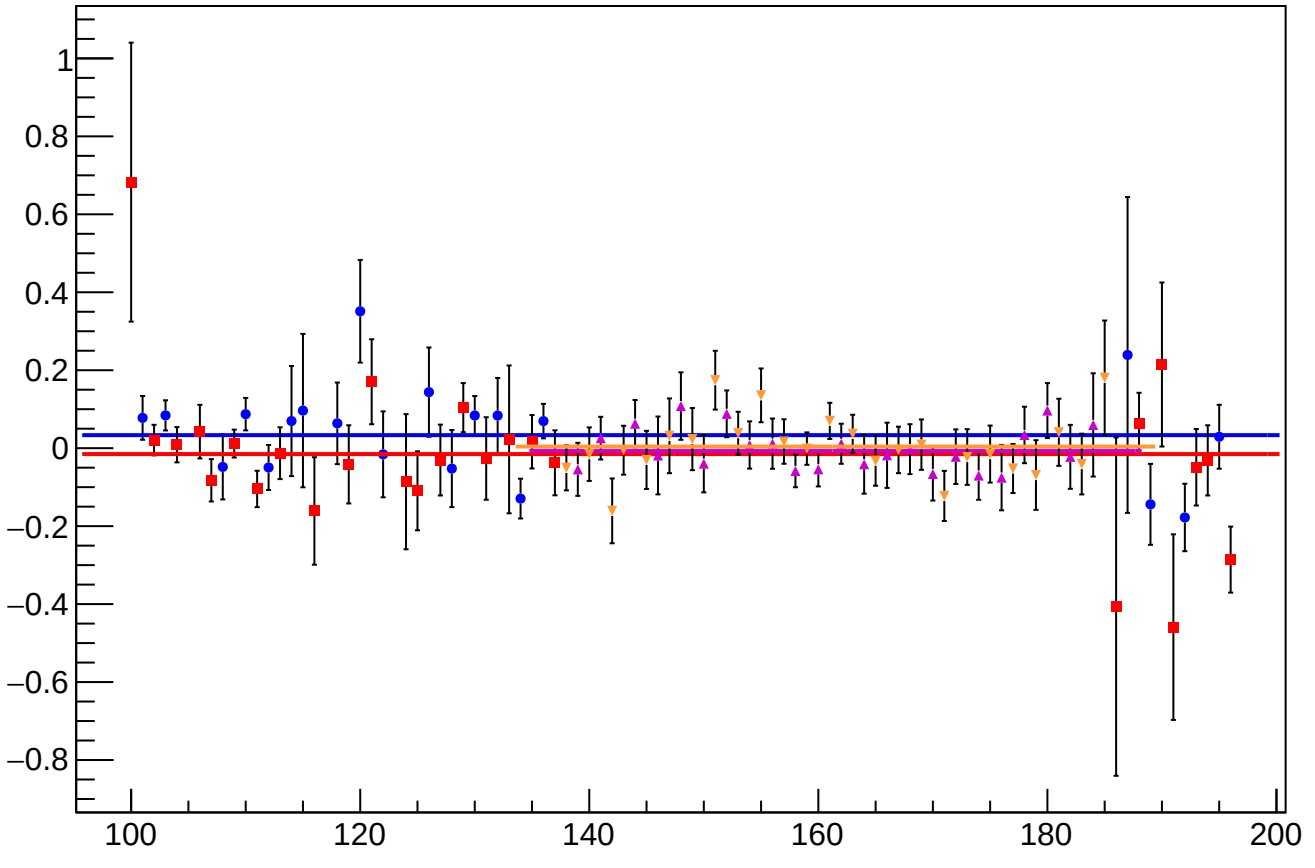
Left: 55.451+/-0.007 $\chi^2$/NDF: 2978352.9/47

Right: 42.558+/-0.007 $\chi^2$/NDF: 7772449.6/45

In: 50.241+/-0.007 $\chi^2$/NDF:5043619.4/42

Out: 49.202+/-0.007 $\chi^2$/NDF:7393215.0/50

All: 49.693+/-0.005 $\chi^2$/NDF: 12447945.1/93




Right In: 0.033+/-0.015 $\chi^2$/NDF: 36.3/19

Left Out: 0.004+/-0.013 $\chi^2$/NDF:24.8/24

Right Out: -0.015+/-0.014 $\chi^2$/NDF: 37.2/25

Left In: -0.007+/-0.014 $\chi^2$/NDF:15.1/22

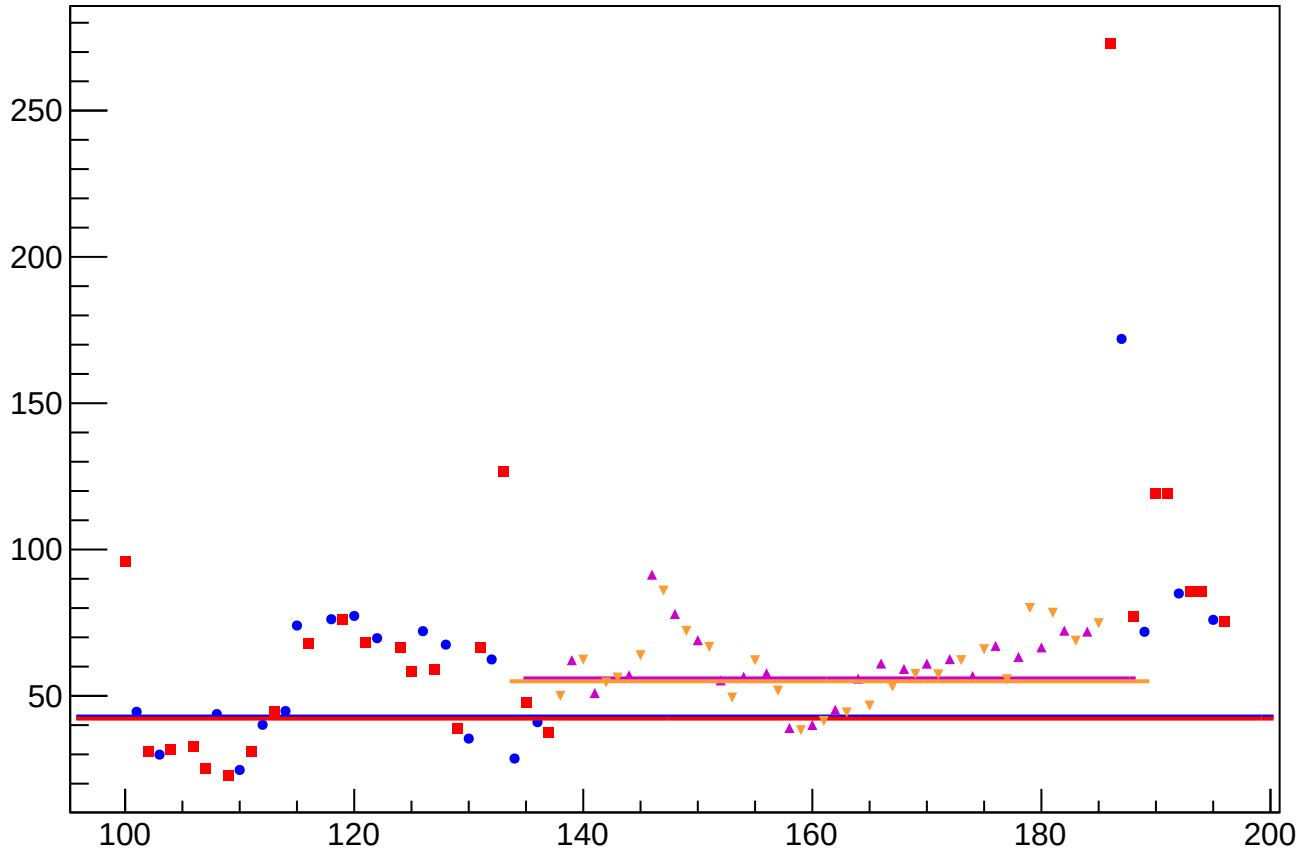
Left: -0.001+/-0.009 $\chi^2$/NDF: 40.2/47

Right: 0.007+/-0.010 $\chi^2$/NDF: 78.9/45

In: 0.011+/-0.010 $\chi^2$/NDF:55.3/42

Out: -0.005+/-0.010 $\chi^2$/NDF:63.1/50

All: 0.003+/-0.007 $\chi^2$/NDF: 119.6/93




Right In: 42.929+/-0.011 $\chi^2$/NDF: 2822683.3/19

Left Out: 54.986+/-0.009 $\chi^2$/NDF:1566844.0/24

Right Out: 42.237+/-0.010 $\chi^2$/NDF: 4947572.7/25

Left In: 55.956+/-0.010 $\chi^2$/NDF:1406142.1/22

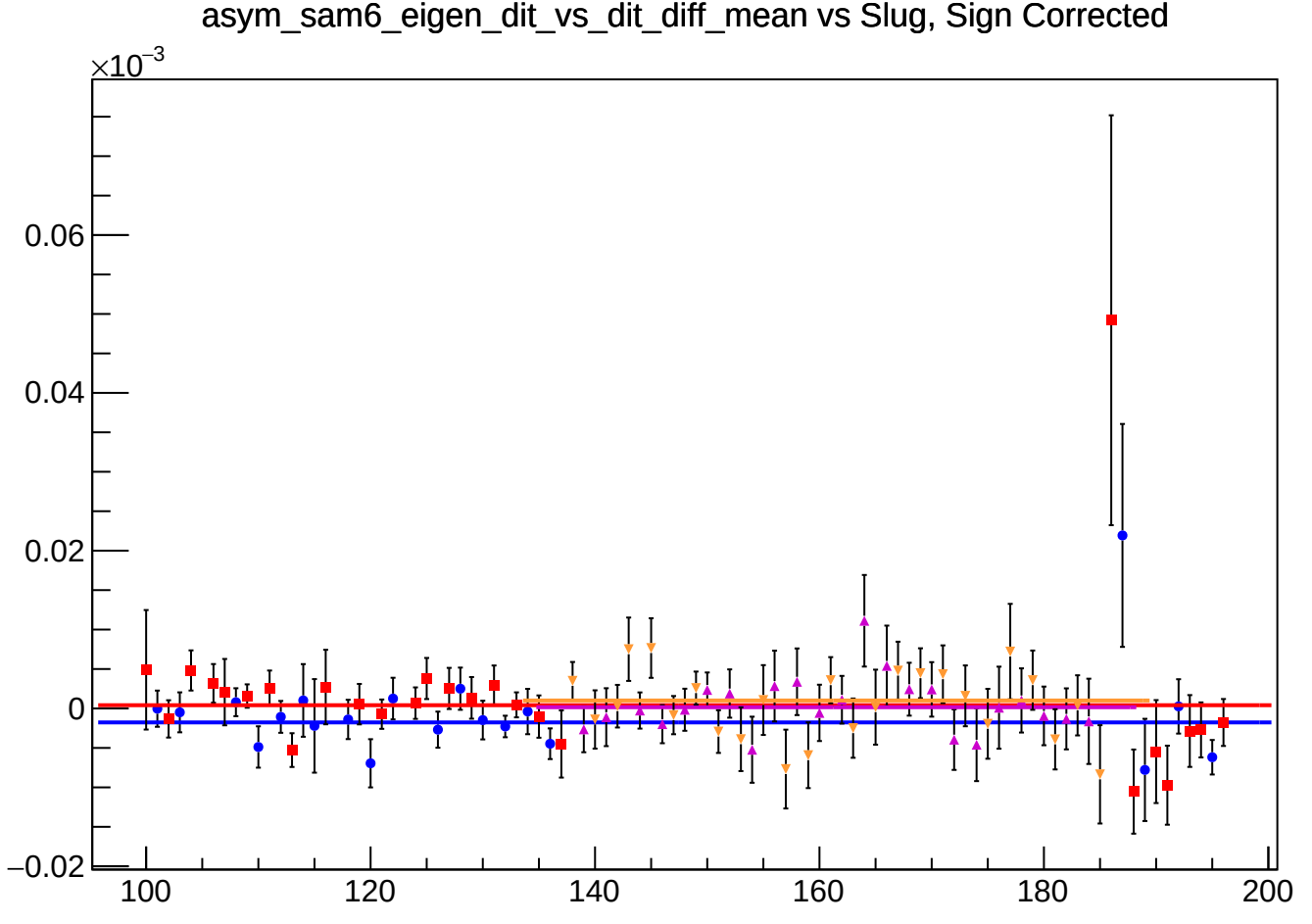
Left: 55.451+/-0.007 $\chi^2$/NDF: 2978352.9/47

Right: 42.558+/-0.007 $\chi^2$/NDF: 7772449.6/45

In: 50.241+/-0.007 $\chi^2$/NDF:5043619.4/42

Out: 49.202+/-0.007 $\chi^2$/NDF:7393215.0/50

All: 49.693+/-0.005 $\chi^2$/NDF: 12447945.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 22.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 34.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 43.3/47

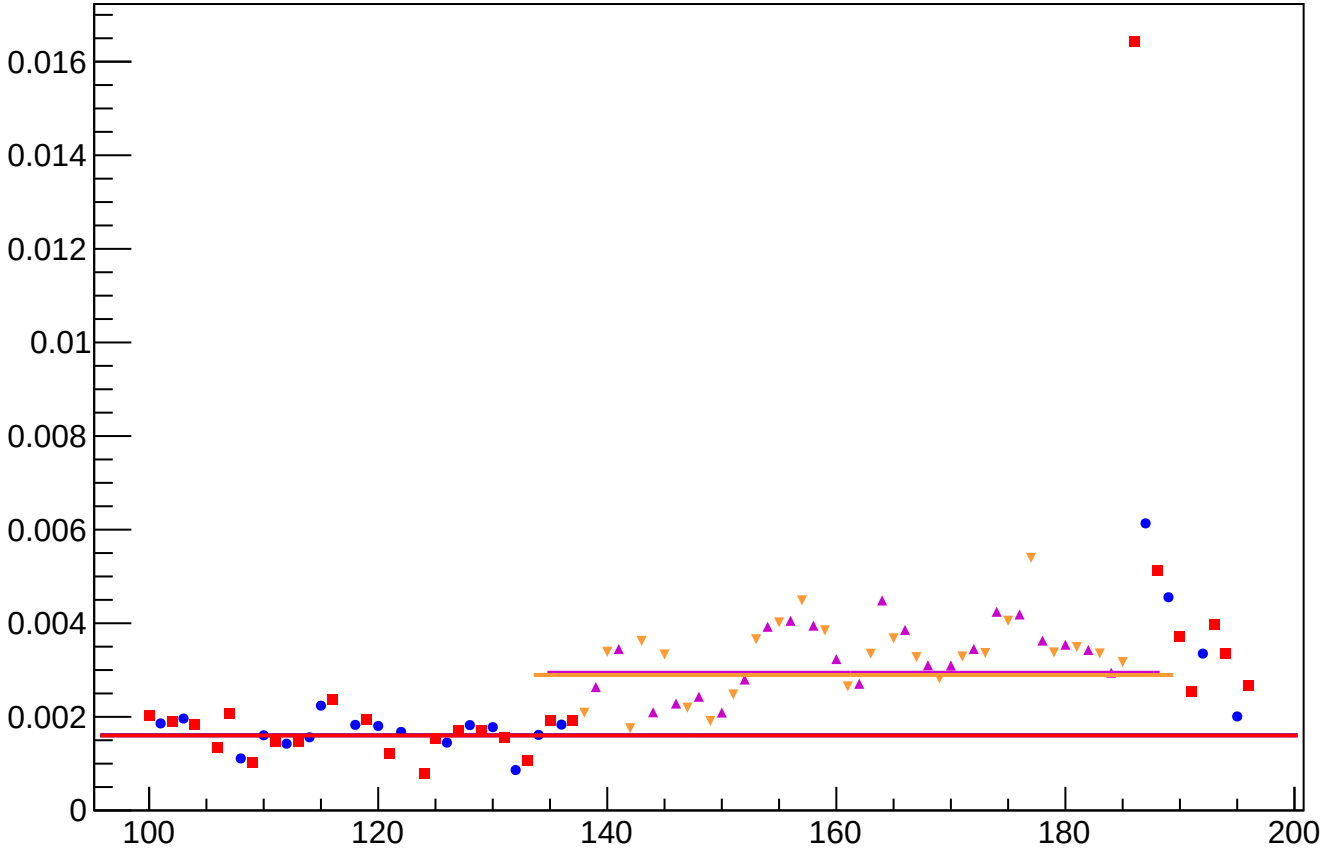
Right: -0.000+/-0.000 $\chi^2$/NDF: 64.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:40.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:63.3/50

All: -0.000+/-0.000 $\chi^2$/NDF: 111.9/93

asym_sam6_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2139579.6/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:2642911.8/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 4334601.2/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:1890470.3/22

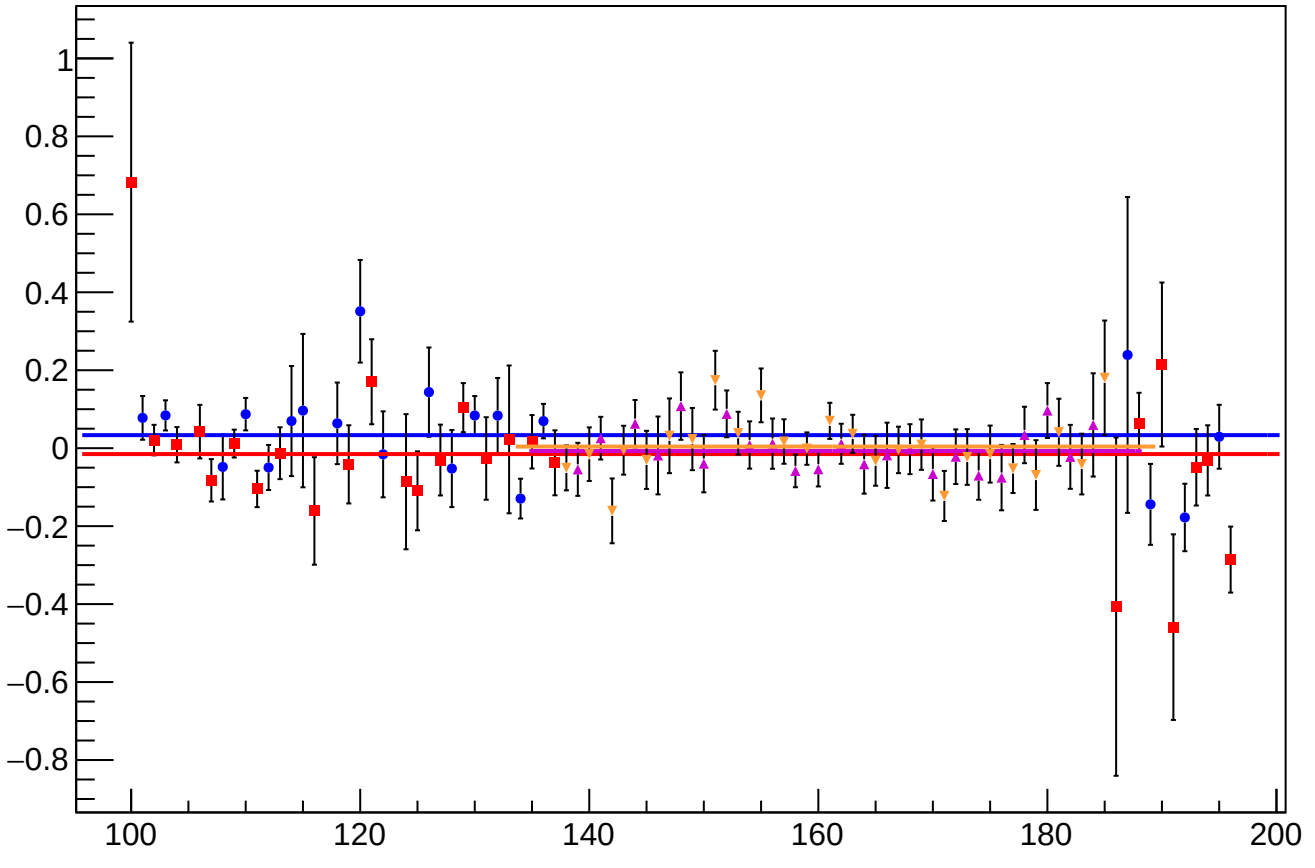
Left: 0.003+/-0.000 $\chi^2$/NDF: 4538040.8/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 6474248.4/45

In: 0.002+/-0.000 $\chi^2$/NDF:8442574.0/42

Out: 0.002+/-0.000 $\chi^2$/NDF:11498056.4/50

All: 0.002+/-0.000 $\chi^2$/NDF: 19948806.6/93




Right In: 0.033+/-0.015 $\chi^2$/NDF: 36.3/19

Left Out: 0.004+/-0.013 $\chi^2$/NDF:24.8/24

Right Out: -0.015+/-0.014 $\chi^2$/NDF: 37.2/25

Left In: -0.007+/-0.014 $\chi^2$/NDF:15.1/22

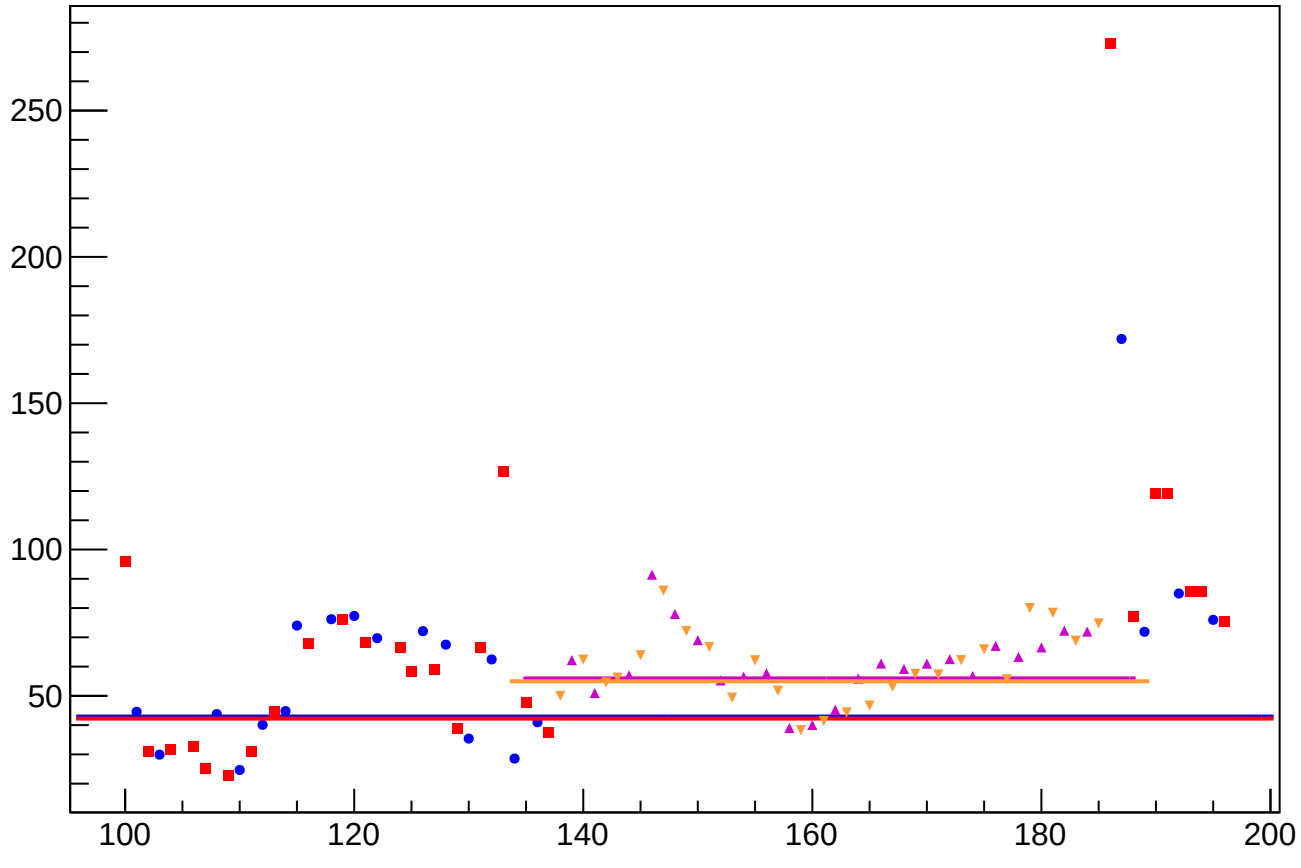
Left: -0.001+/-0.009 $\chi^2$/NDF: 40.2/47

Right: 0.007+/-0.010 $\chi^2$/NDF: 78.9/45

In: 0.011+/-0.010 $\chi^2$/NDF:55.3/42

Out: -0.005+/-0.010 $\chi^2$/NDF:63.1/50

All: 0.003+/-0.007 $\chi^2$/NDF: 119.5/93




Right In: 42.928+/-0.011 $\chi^2$/NDF: 2822730.3/19

Left Out: 54.985+/-0.009 $\chi^2$/NDF:1566963.9/24

Right Out: 42.237+/-0.010 $\chi^2$/NDF: 4947550.7/25

Left In: 55.955+/-0.010 $\chi^2$/NDF:1406309.5/22

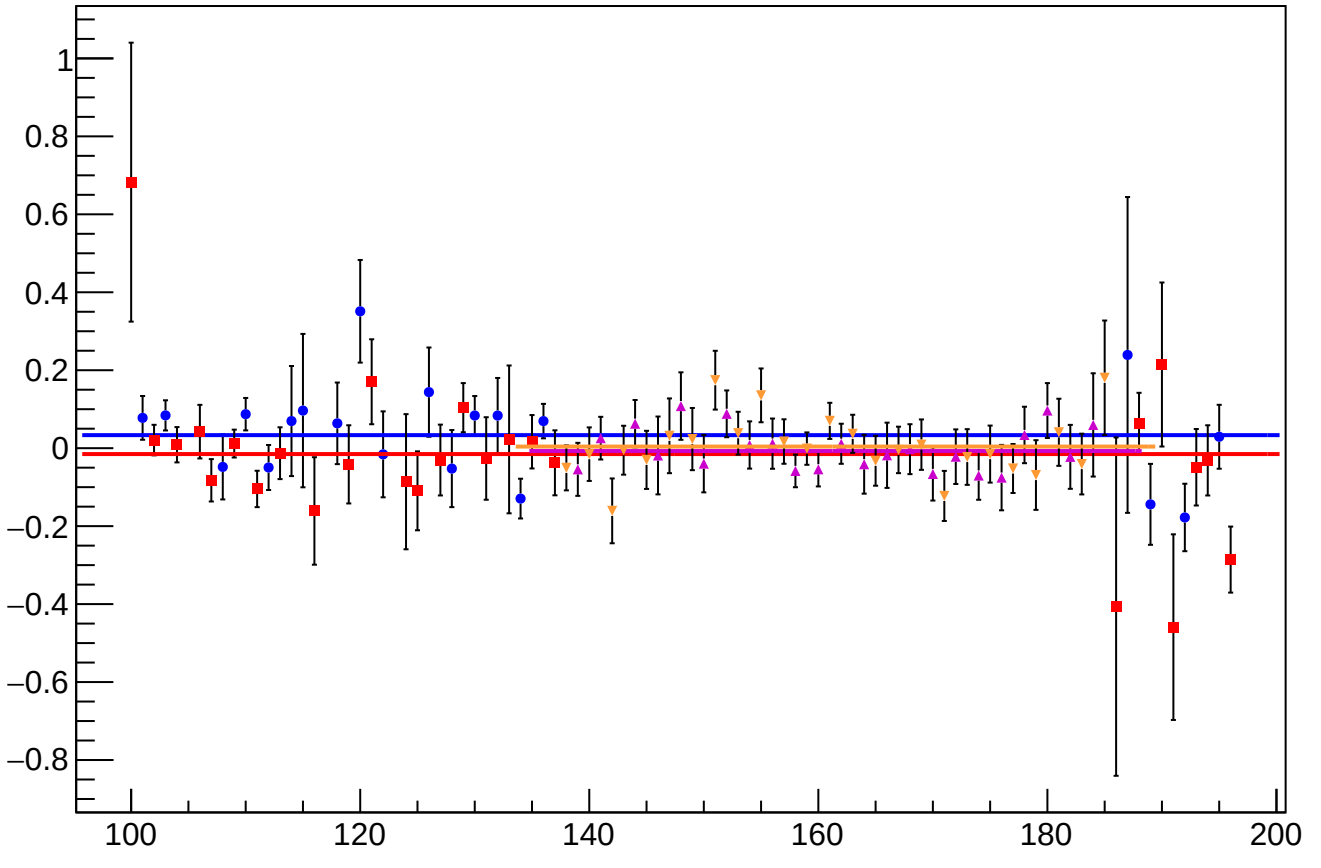
Left: 55.449+/-0.007 $\chi^2$/NDF: 2978638.3/47

Right: 42.557+/-0.007 $\chi^2$/NDF: 7772473.0/45

In: 50.240+/-0.007 $\chi^2$/NDF:5043781.8/42

Out: 49.202+/-0.007 $\chi^2$/NDF:7393239.4/50

All: 49.692+/-0.005 $\chi^2$/NDF: 12448127.3/93




Right In: 0.033+/-0.015 $\chi^2$/NDF: 36.3/19

Left Out: 0.004+/-0.013 $\chi^2$/NDF:24.8/24

Right Out: -0.015+/-0.014 $\chi^2$/NDF: 37.2/25

Left In: -0.007+/-0.014 $\chi^2$/NDF:15.1/22

Left: -0.001+/-0.009 $\chi^2$/NDF: 40.2/47

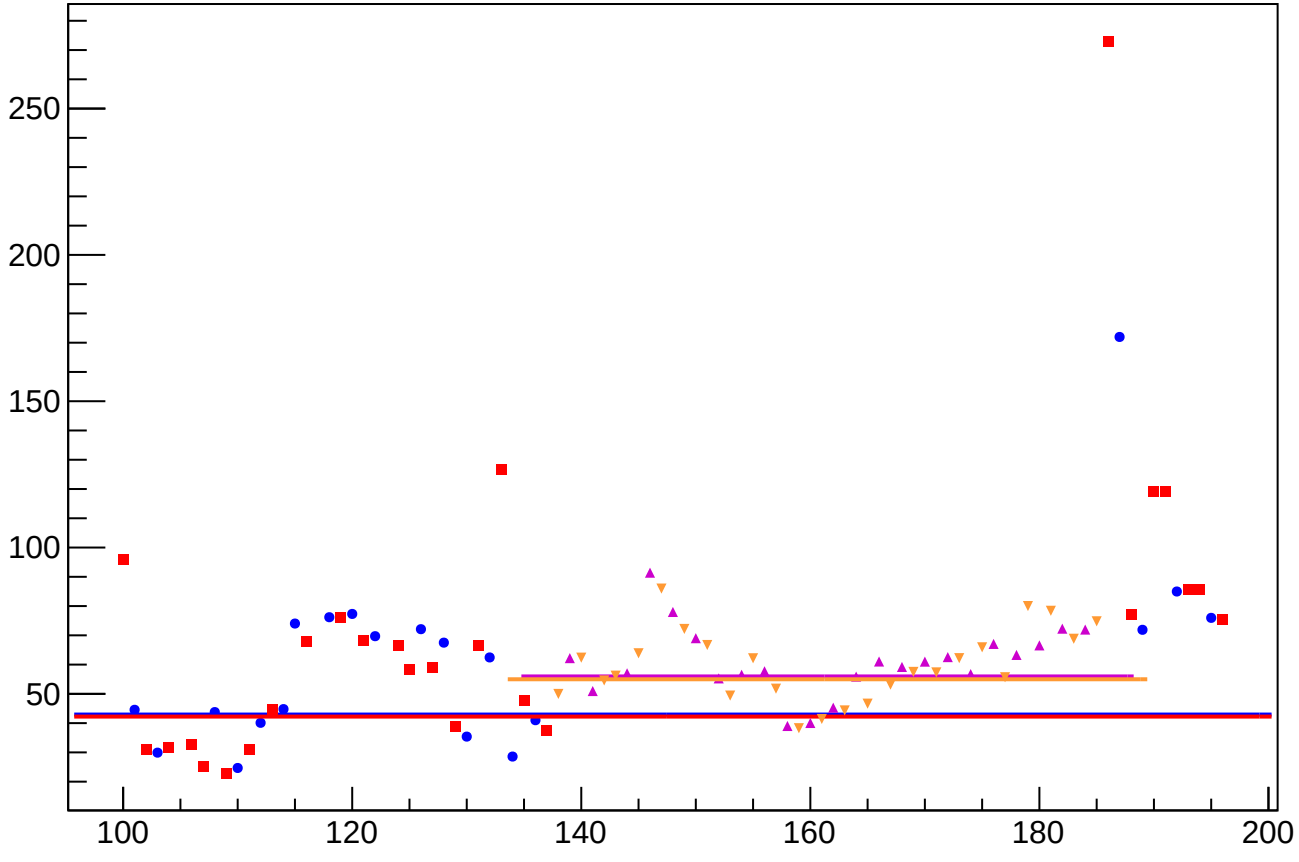
Right: 0.007+/-0.010 $\chi^2$/NDF: 78.9/45

In: 0.011+/-0.010 $\chi^2$/NDF:55.3/42

Out: -0.005+/-0.010 $\chi^2$/NDF:63.1/50

All: 0.003+/-0.007 $\chi^2$/NDF: 119.5/93

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 42.928+/-0.011 $\chi^2$/NDF: 2822730.3/19

Left Out: 54.985+/-0.009 $\chi^2$/NDF:1566963.9/24

Right Out: 42.237+/-0.010 $\chi^2$/NDF: 4947550.7/25

Left In: 55.955+/-0.010 $\chi^2$/NDF:1406309.5/22

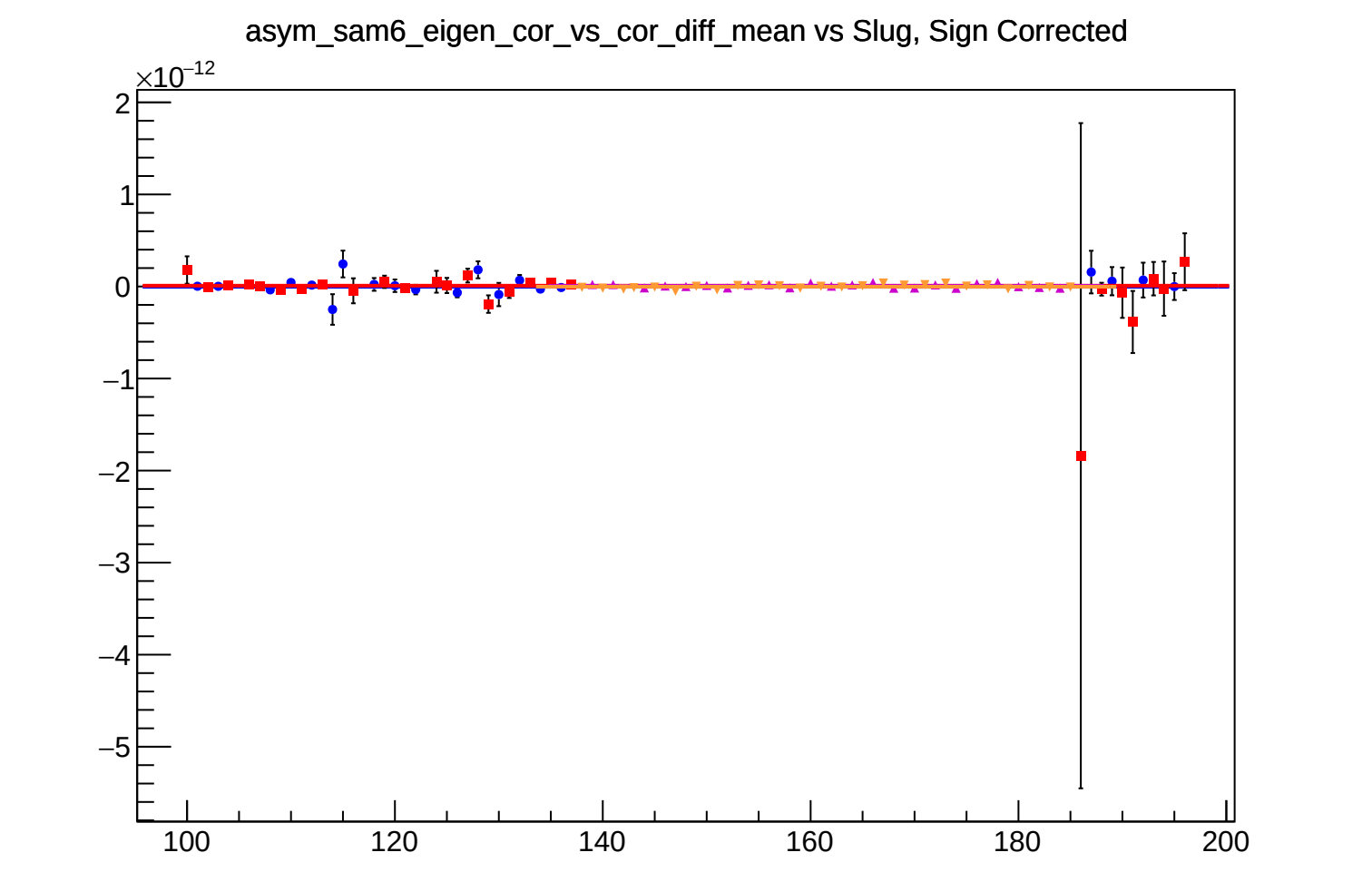
Left: 55.449+/-0.007 $\chi^2$/NDF: 2978638.3/47

Right: 42.557+/-0.007 $\chi^2$/NDF: 7772473.0/45

In: 50.240+/-0.007 $\chi^2$/NDF:5043781.8/42

Out: 49.202+/-0.007 $\chi^2$/NDF:7393239.4/50

All: 49.692+/-0.005 $\chi^2$/NDF: 12448127.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 17.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.9/22

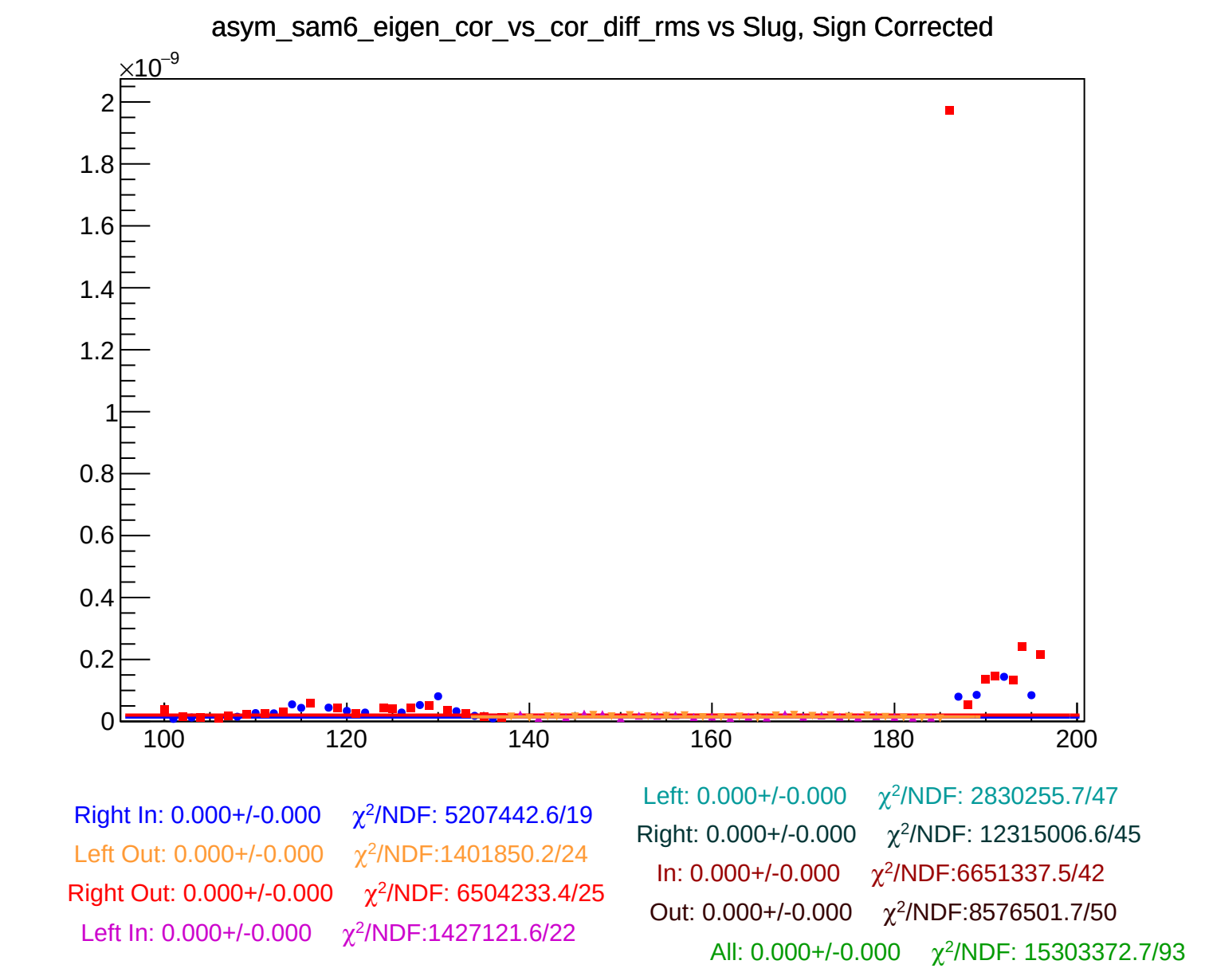
Left: 0.000+/-0.000 $\chi^2$/NDF: 43.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.1/45

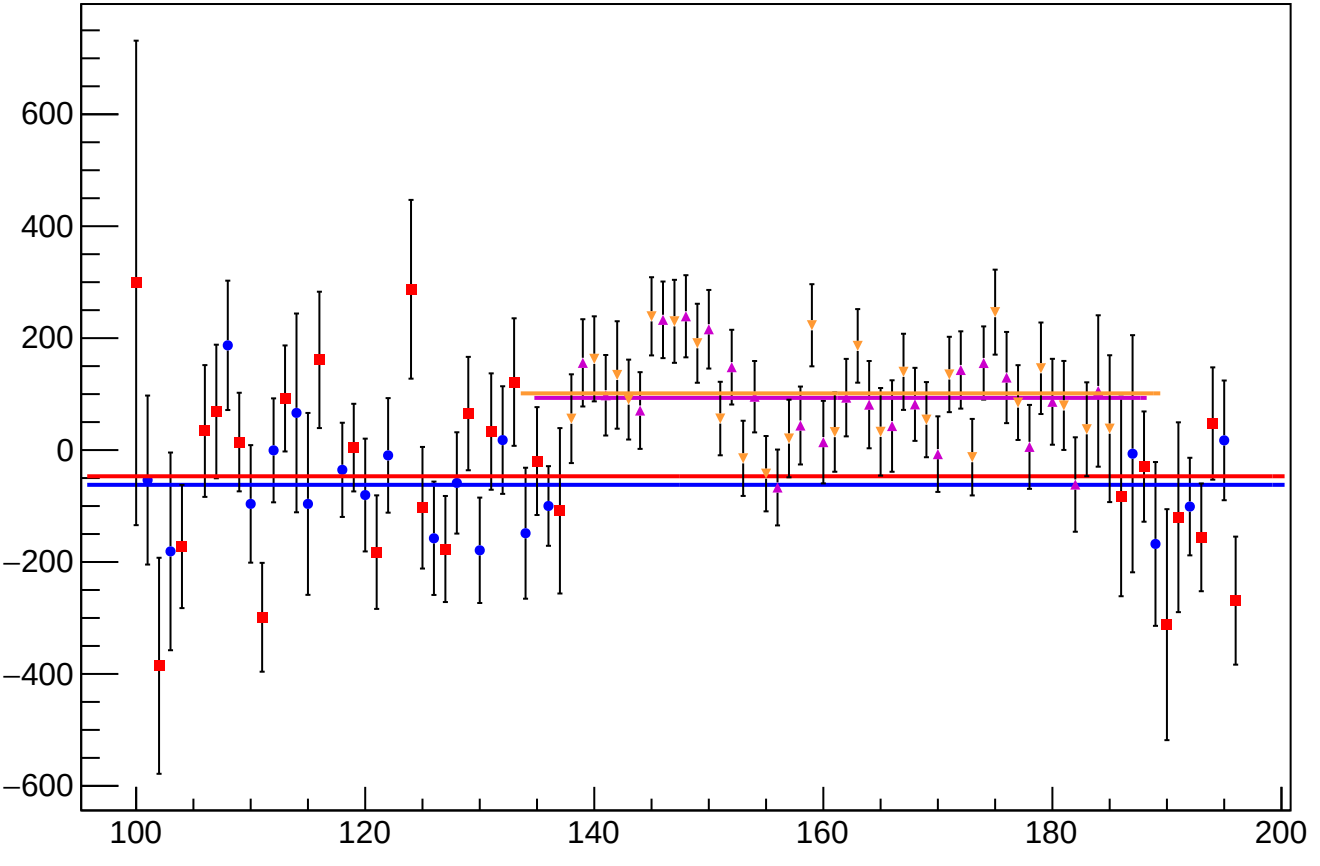
In: 0.000+/-0.000 $\chi^2$/NDF:40.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:39.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 80.7/93


asym_sam6_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5207442.6/19
Left Out: 0.000+/-0.000 χ²/NDF:1401850.2/24
Right Out: 0.000+/-0.000 χ²/NDF: 6504233.4/25
Left In: 0.000+/-0.000 χ²/NDF:1427121.6/22
Left: 0.000+/-0.000 χ²/NDF: 2830255.7/47
Right: 0.000+/-0.000 χ²/NDF: 12315006.6/45
In: 0.000+/-0.000 χ²/NDF:6651337.5/42
Out: 0.000+/-0.000 χ²/NDF:8576501.7/50
All: 0.000+/-0.000 χ²/NDF: 15303372.7/93

# reg_asym_sam7_mean vs Slug, Sign Corrected




Right In: -62.108+/-23.829 $\chi^2$/NDF: 11.9/19

Left Out: 101.325+/-14.642 $\chi^2$/NDF:33.9/24

Right Out: -46.796+/-22.017 $\chi^2$/NDF: 39.5/25

Left In: 93.236+/-15.137 $\chi^2$/NDF:28.8/22

Left: 97.415+/-10.524 $\chi^2$/NDF: 62.9/47

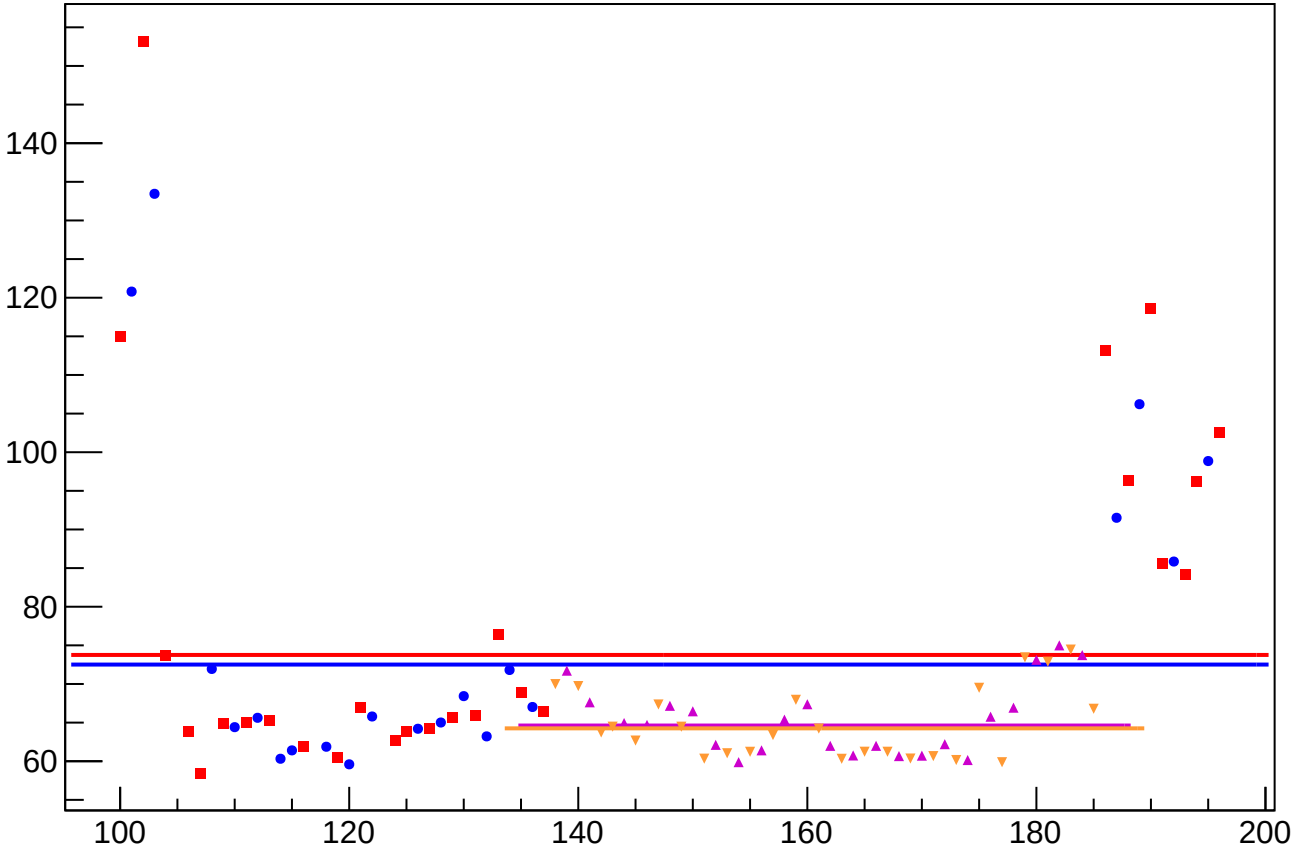
Right: -53.848+/-16.171 $\chi^2$/NDF: 51.7/45

In: 48.574+/-12.777 $\chi^2$/NDF:71.0/42

Out: 55.905+/-12.192 $\chi^2$/NDF:104.8/50

All: 52.411+/-8.820 $\chi^2$/NDF: 176.0/93

# reg_asym_sam7_rms vs Slug, Sign Corrected




Right In: 72.513+/-0.017 $\chi^2$/NDF: 909617.3/19

Left Out: 64.256+/-0.010 $\chi^2$/NDF:177697.9/24

Right Out: 73.759+/-0.016 $\chi^2$/NDF: 1180690.7/25

Left In: 64.621+/-0.011 $\chi^2$/NDF:147201.3/22

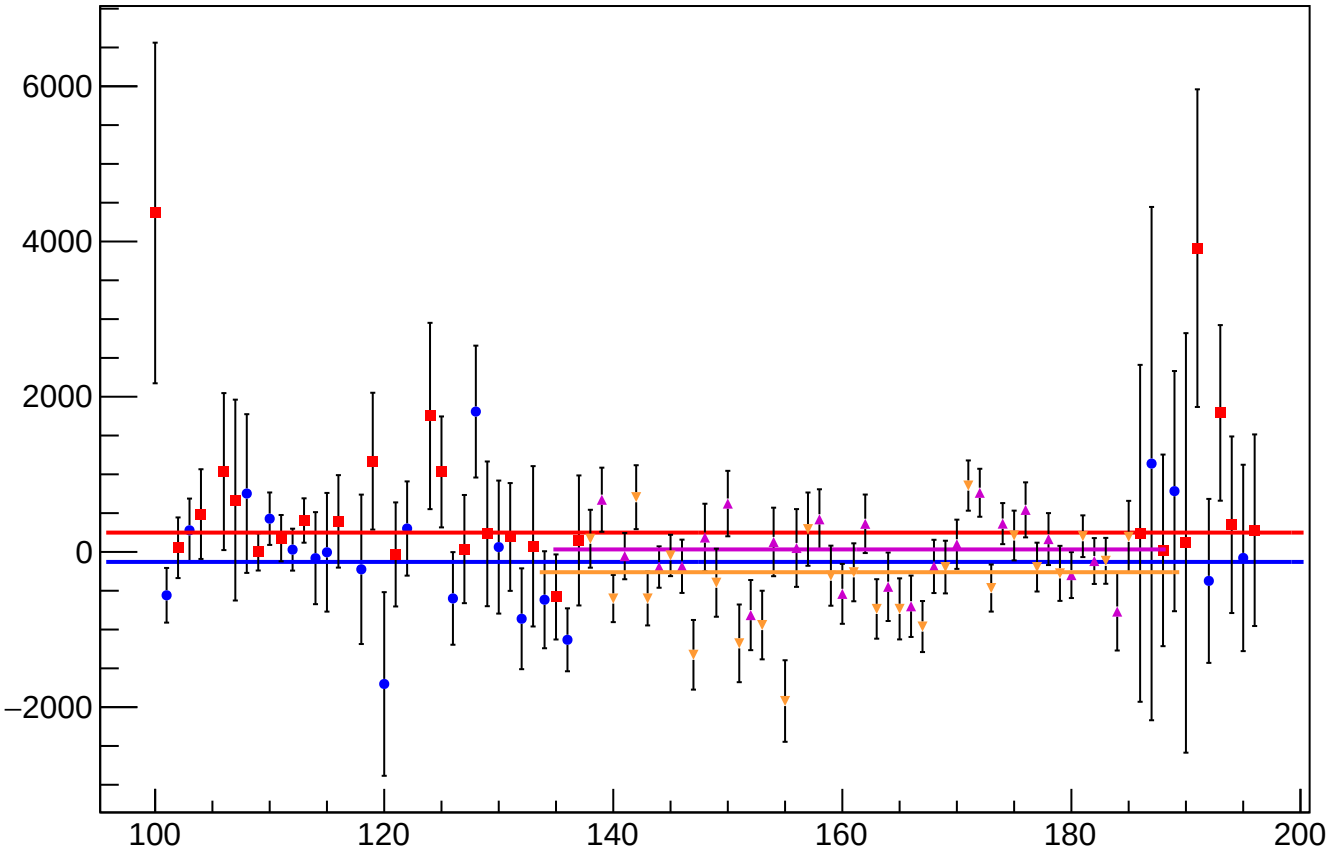
Left: 64.432+/-0.007 $\chi^2$/NDF: 325501.9/47

Right: 73.185+/-0.011 $\chi^2$/NDF: 2093258.7/45

In: 66.890+/-0.009 $\chi^2$/NDF:1213120.3/42

Out: 67.170+/-0.009 $\chi^2$/NDF:1616760.0/50

All: 67.036+/-0.006 $\chi^2$/NDF: 2830381.9/93




Right In: -128.624+/-123.860 $\chi^2$/NDF: 23.0/19

Left Out: -261.124+/-71.268 $\chi^2$/NDF:58.8/24

Right Out: 249.180+/-115.058 $\chi^2$/NDF: 17.7/25

Left In: 32.423+/-73.837 $\chi^2$/NDF:31.7/22

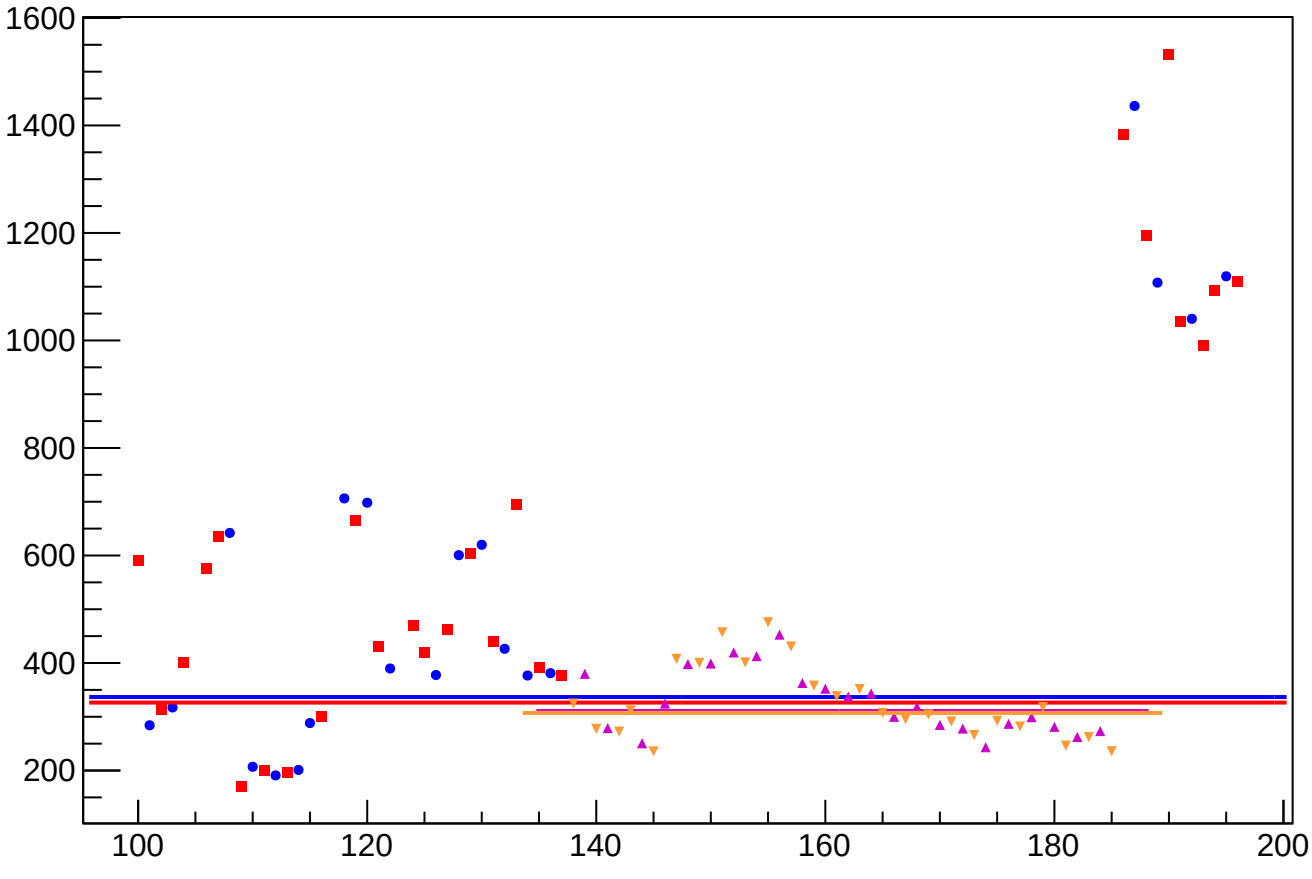
Left: -119.545+/-51.278 $\chi^2$/NDF: 98.7/47

Right: 74.178+/-84.299 $\chi^2$/NDF: 45.7/45

In: -9.803+/-63.423 $\chi^2$/NDF:56.0/42

Out: -119.624+/-60.587 $\chi^2$/NDF:90.7/50

All: -67.224+/-43.810 $\chi^2$/NDF: 148.3/93




Right In: 336.680+/-0.088 $\chi^2$/NDF: 4658670.0/19

Left Out: 307.143+/-0.050 $\chi^2$/NDF:1320151.2/24

Right Out: 326.398+/-0.081 $\chi^2$/NDF: 7428551.5/25

Left In: 310.697+/-0.052 $\chi^2$/NDF:1079476.2/22

Left: 308.857+/-0.036 $\chi^2$/NDF: 2402026.6/47

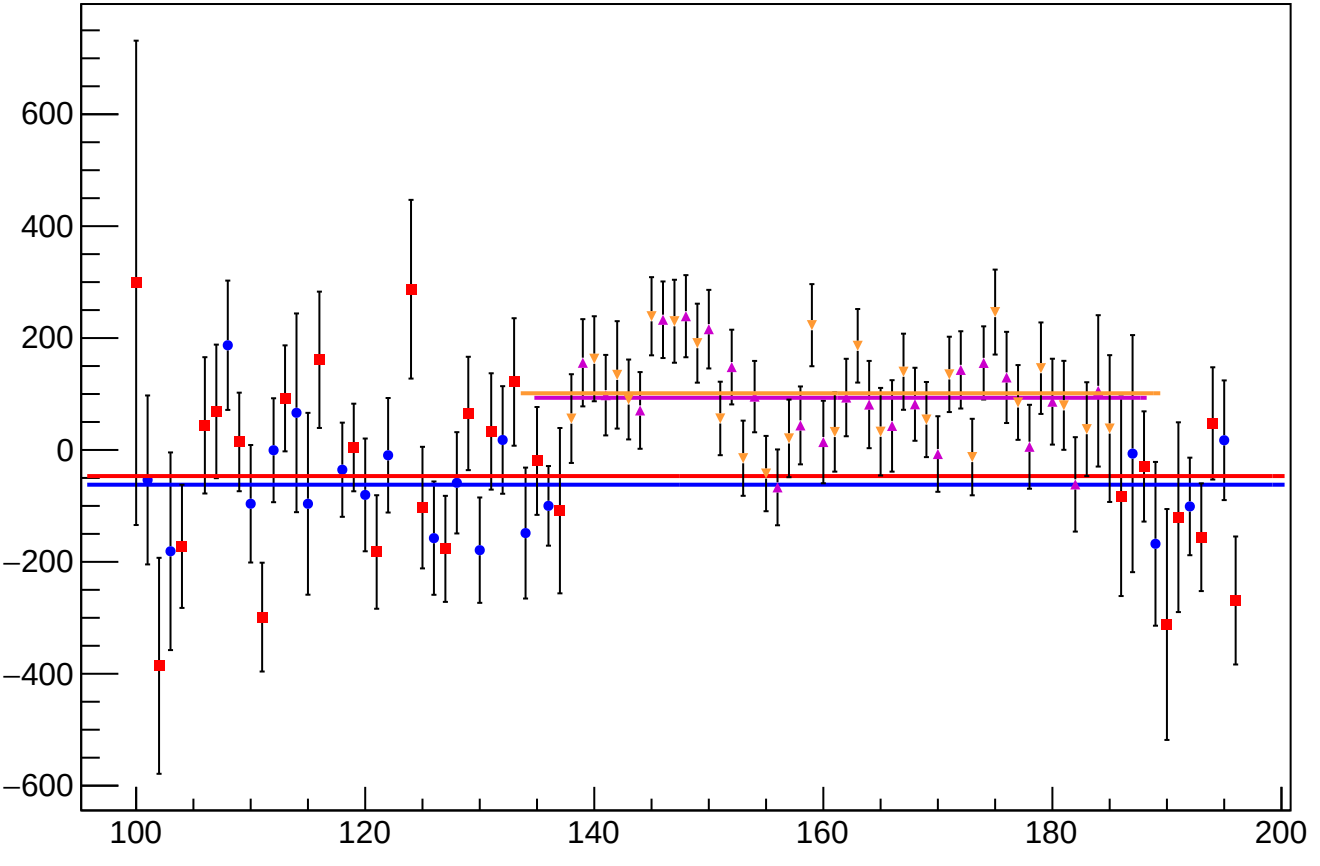
Right: 331.161+/-0.060 $\chi^2$/NDF: 12094619.3/45

In: 317.510+/-0.045 $\chi^2$/NDF:5803080.0/42

Out: 312.482+/-0.043 $\chi^2$/NDF:8789184.4/50

All: 314.881+/-0.031 $\chi^2$/NDF: 14598835.7/93

# cor_asym_sam7_mean vs Slug, Sign Corrected




Right In: -62.108+/-23.829 $\chi^2$/NDF: 11.9/19

Left Out: 101.325+/-14.642 $\chi^2$/NDF:33.9/24

Right Out: -46.660+/-22.042 $\chi^2$/NDF: 39.6/25

Left In: 93.235+/-15.137 $\chi^2$/NDF:28.8/22

Left: 97.414+/-10.524 $\chi^2$/NDF: 62.9/47

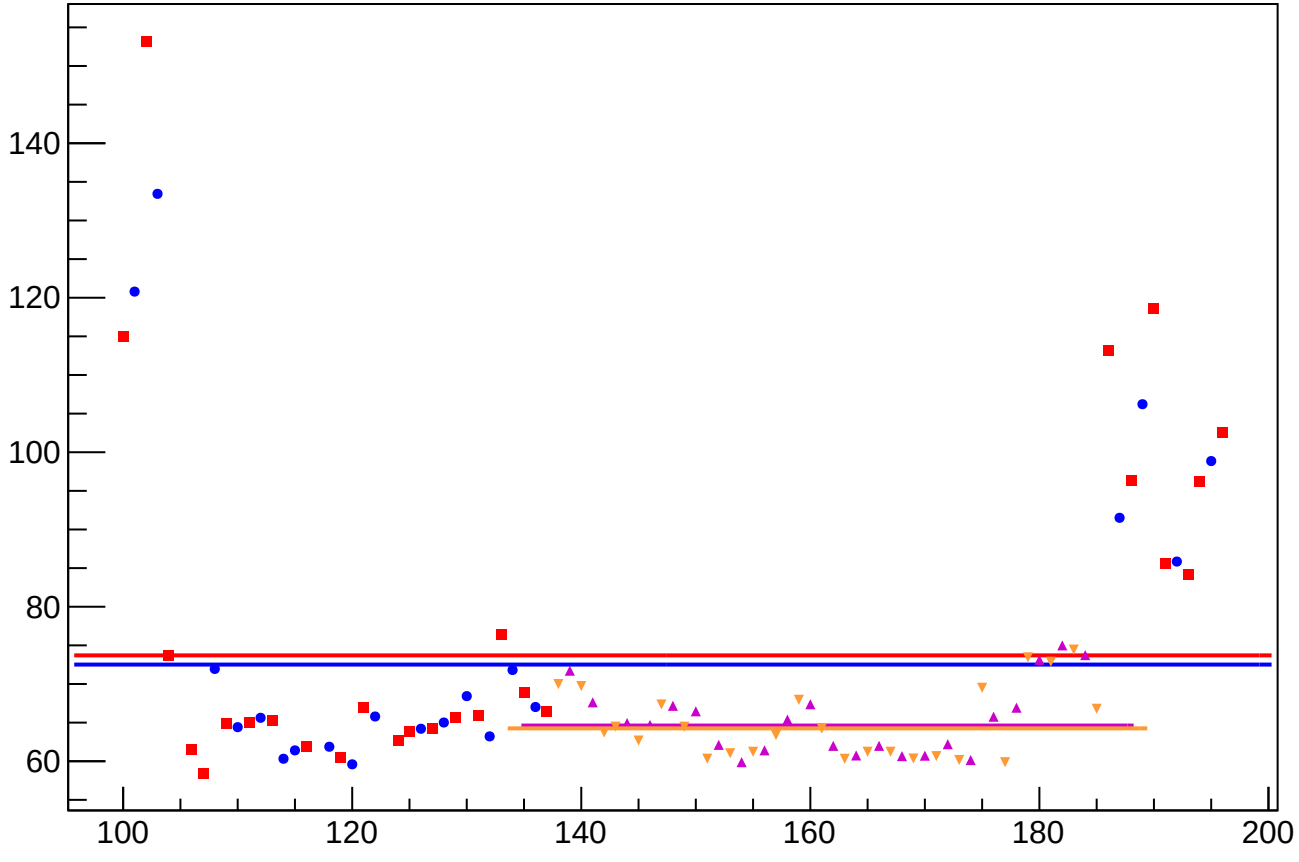
Right: -53.784+/-16.181 $\chi^2$/NDF: 51.8/45

In: 48.574+/-12.777 $\chi^2$/NDF:71.0/42

Out: 56.019+/-12.196 $\chi^2$/NDF:104.8/50

All: 52.469+/-8.822 $\chi^2$/NDF: 176.0/93

# cor_asym_sam7_rms vs Slug, Sign Corrected




Right In: 72.513+/-0.017 $\chi^2$/NDF: 909617.7/19

Left Out: 64.256+/-0.010 $\chi^2$/NDF:177697.9/24

Right Out: 73.704+/-0.016 $\chi^2$/NDF: 1186802.0/25

Left In: 64.621+/-0.011 $\chi^2$/NDF:147201.3/22

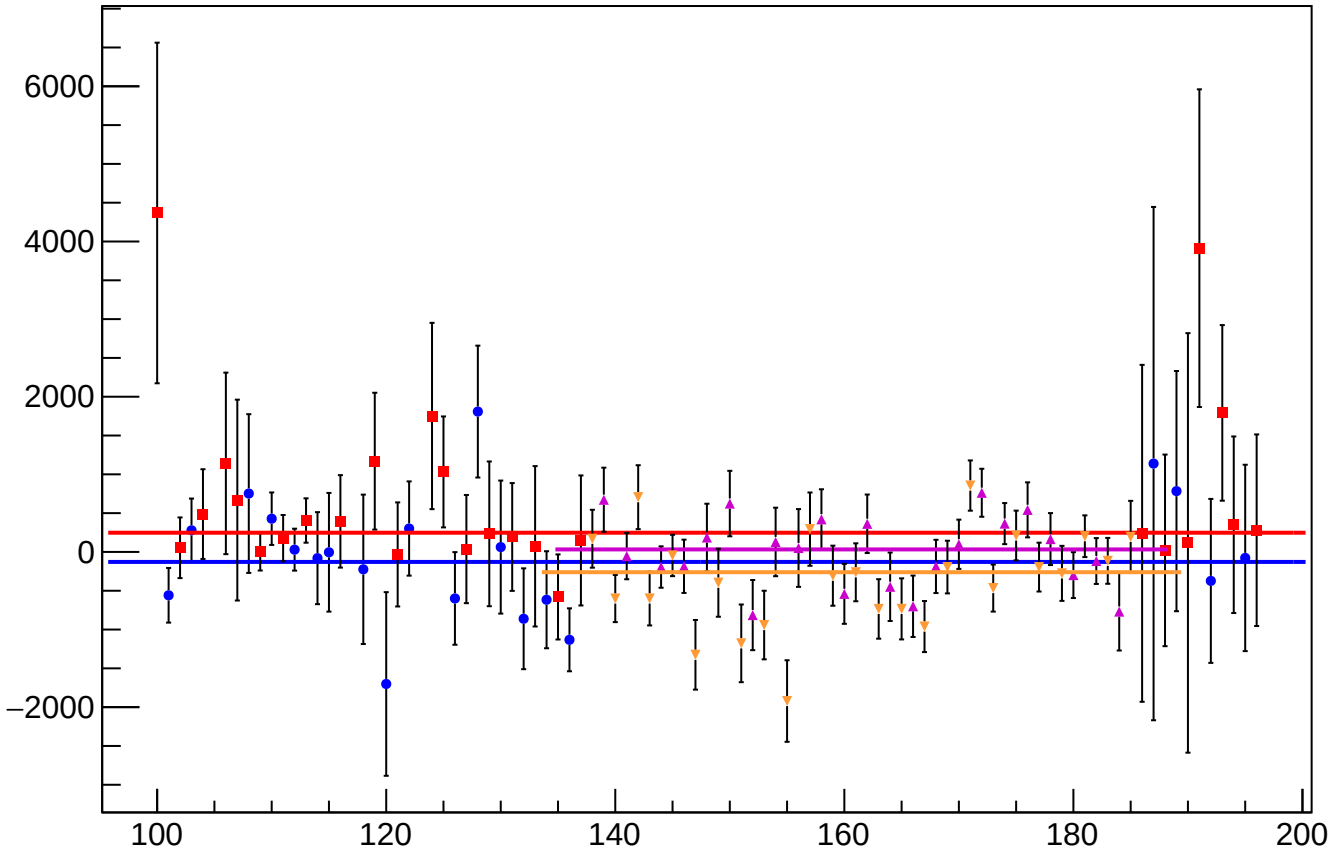
Left: 64.432+/-0.007 $\chi^2$/NDF: 325501.9/47

Right: 73.155+/-0.011 $\chi^2$/NDF: 2099114.3/45

In: 66.890+/-0.009 $\chi^2$/NDF:1213120.7/42

Out: 67.148+/-0.009 $\chi^2$/NDF:1619501.1/50

All: 67.025+/-0.006 $\chi^2$/NDF: 2833049.5/93




Right In: -128.620+/-123.861 $\chi^2$/NDF: 23.0/19

Left Out: -261.124+/-71.268 $\chi^2$/NDF:58.8/24

Right Out: 247.642+/-115.251 $\chi^2$/NDF: 17.7/25

Left In: 32.420+/-73.837 $\chi^2$/NDF:31.7/22

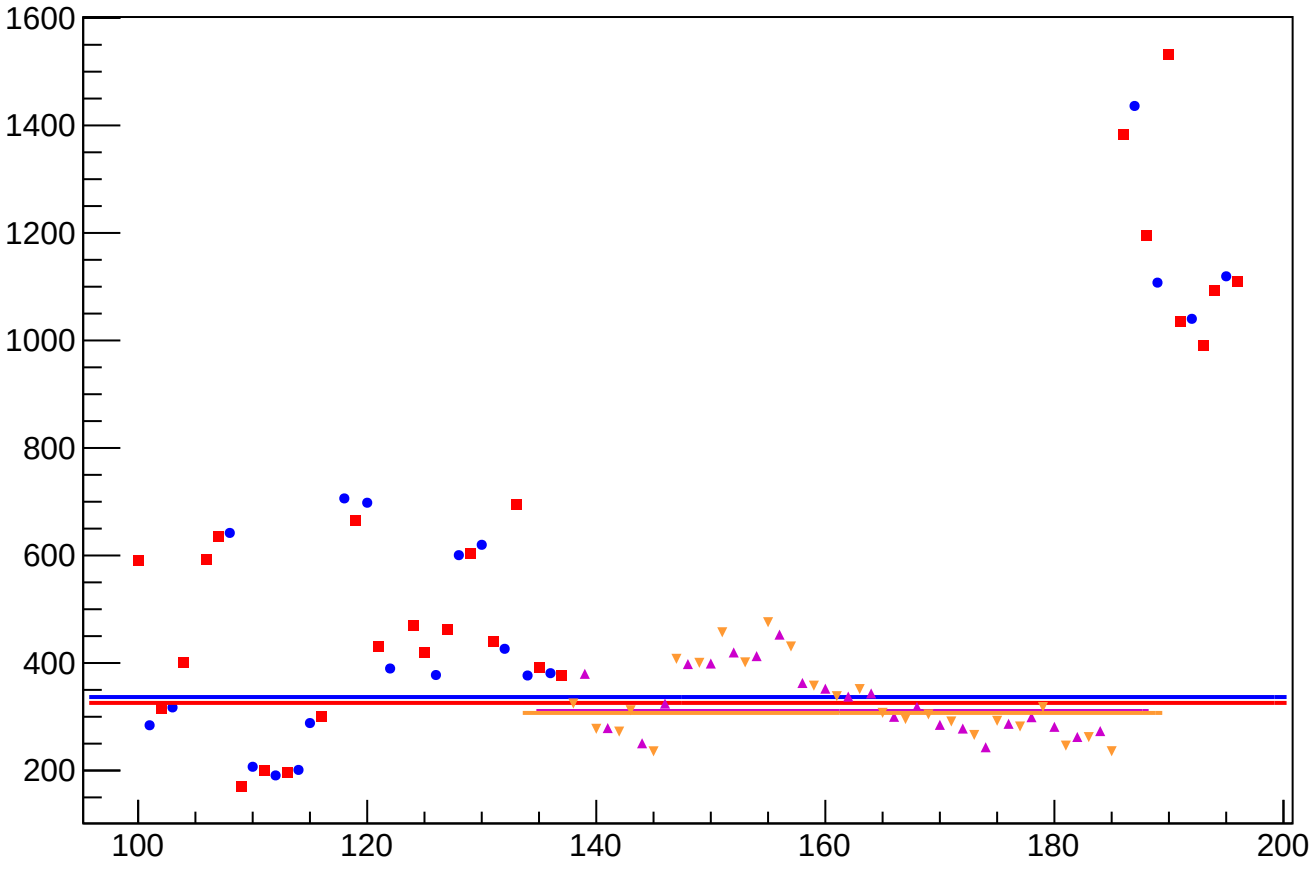
Left: -119.547+/-51.278 $\chi^2$/NDF: 98.7/47

Right: 73.042+/-84.375 $\chi^2$/NDF: 45.7/45

In: -9.804+/-63.423 $\chi^2$/NDF:56.0/42

Out: -120.392+/-60.615 $\chi^2$/NDF:90.6/50

All: -67.600+/-43.820 $\chi^2$/NDF: 148.2/93




Right In: 336.682+/-0.088 $\chi^2$/NDF: 4658658.3/19

Left Out: 307.143+/-0.050 $\chi^2$/NDF:1320147.4/24

Right Out: 325.771+/-0.081 $\chi^2$/NDF: 7411408.5/25

Left In: 310.698+/-0.052 $\chi^2$/NDF:1079479.8/22

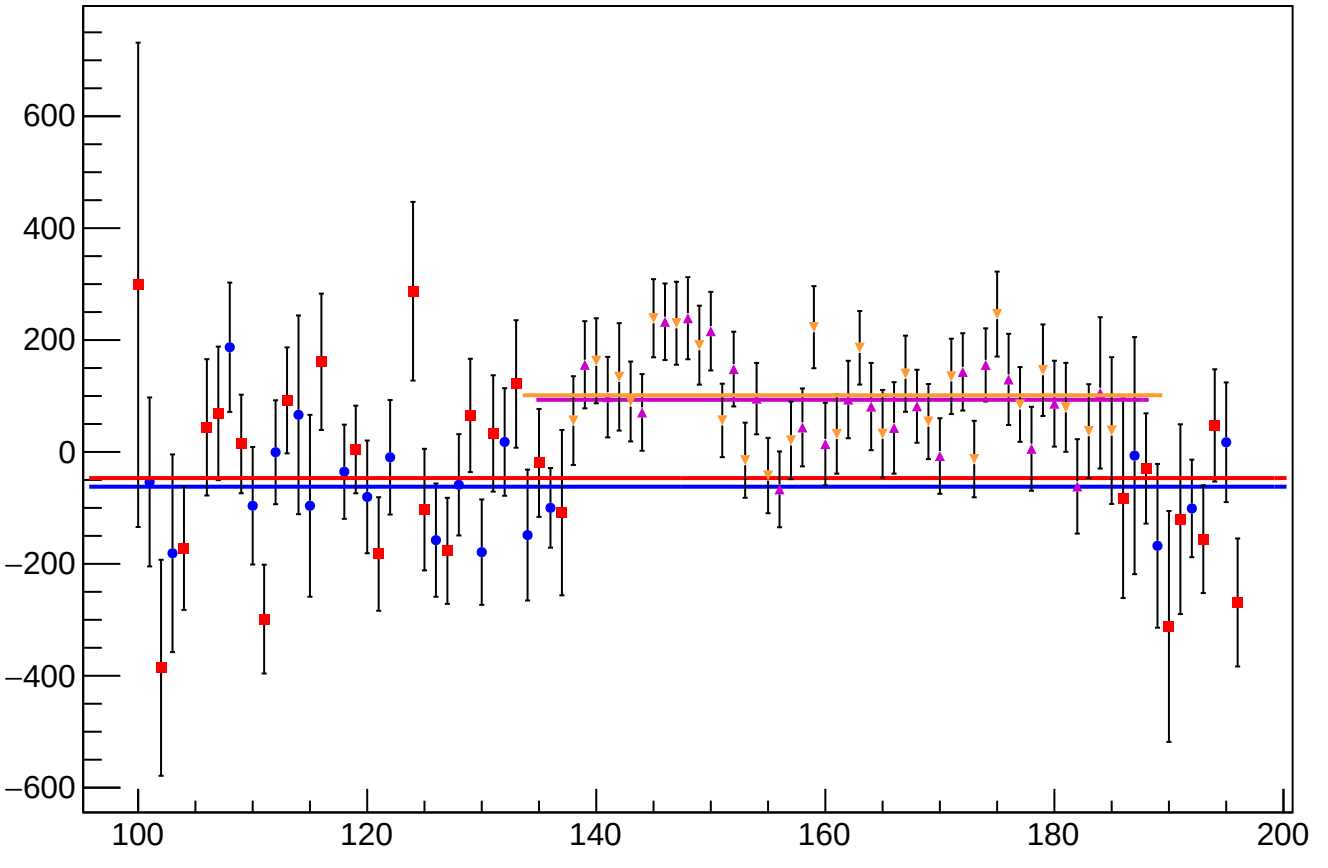
Left: 308.857+/-0.036 $\chi^2$/NDF: 2402026.6/47

Right: 330.834+/-0.060 $\chi^2$/NDF: 12078385.0/45

In: 317.511+/-0.045 $\chi^2$/NDF:5803081.6/42

Out: 312.296+/-0.043 $\chi^2$/NDF:8769351.8/50

All: 314.785+/-0.031 $\chi^2$/NDF: 14579499.7/93




Right In: -62.108+/-23.829 $\chi^2$/NDF: 11.9/19

Left Out: 101.325+/-14.642 $\chi^2$/NDF:33.9/24

Right Out: -46.660+/-22.042 $\chi^2$/NDF: 39.6/25

Left In: 93.235+/-15.137 $\chi^2$/NDF:28.8/22

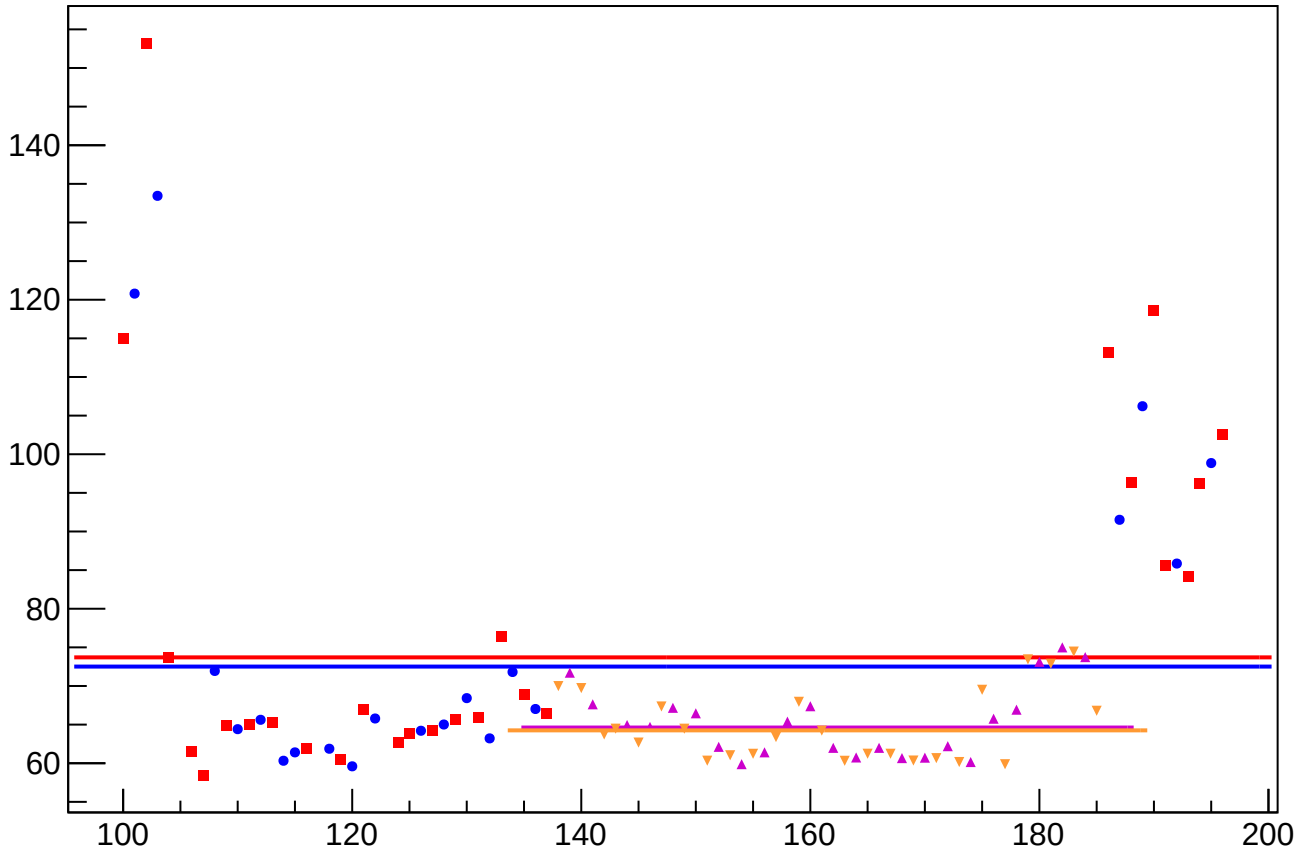
Left: 97.414+/-10.524 $\chi^2$/NDF: 62.9/47

Right: -53.784+/-16.181 $\chi^2$/NDF: 51.8/45

In: 48.574+/-12.777 $\chi^2$/NDF:71.0/42

Out: 56.019+/-12.196 $\chi^2$/NDF:104.8/50

All: 52.469+/-8.822 $\chi^2$/NDF: 176.0/93




Right In: 72.513+/-0.017 $\chi^2$/NDF: 909617.7/19

Left Out: 64.256+/-0.010 $\chi^2$/NDF:177697.9/24

Right Out: 73.704+/-0.016 $\chi^2$/NDF: 1186802.0/25

Left In: 64.621+/-0.011 $\chi^2$/NDF:147201.3/22

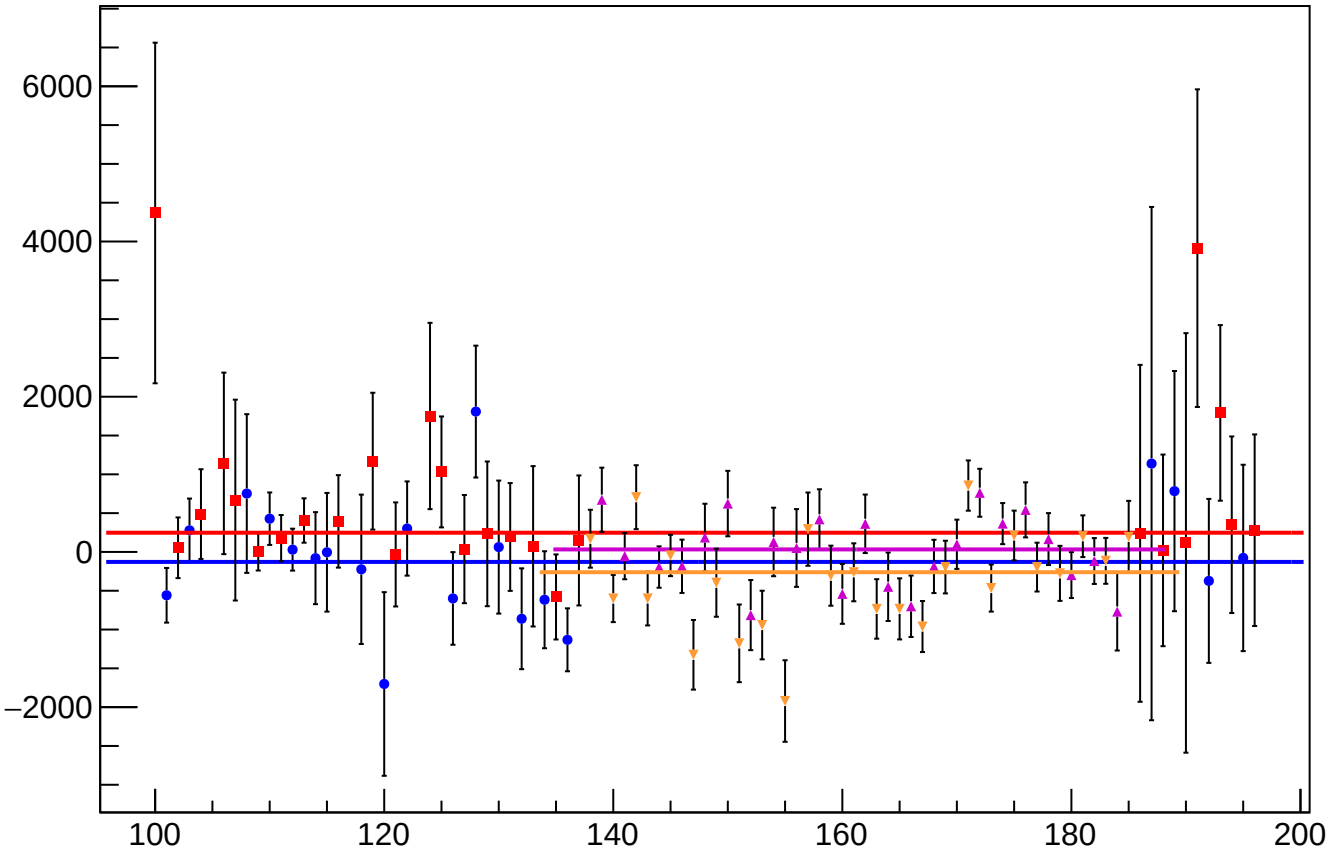
Left: 64.432+/-0.007 $\chi^2$/NDF: 325501.9/47

Right: 73.155+/-0.011 $\chi^2$/NDF: 2099114.3/45

In: 66.890+/-0.009 $\chi^2$/NDF:1213120.7/42

Out: 67.148+/-0.009 $\chi^2$/NDF:1619501.1/50

All: 67.025+/-0.006 $\chi^2$/NDF: 2833049.5/93




Right In: -128.620+/-123.861 $\chi^2$/NDF: 23.0/19

Left Out: -261.124+/-71.268 $\chi^2$/NDF:58.8/24

Right Out: 247.642+/-115.251 $\chi^2$/NDF: 17.7/25

Left In: 32.420+/-73.837 $\chi^2$/NDF:31.7/22

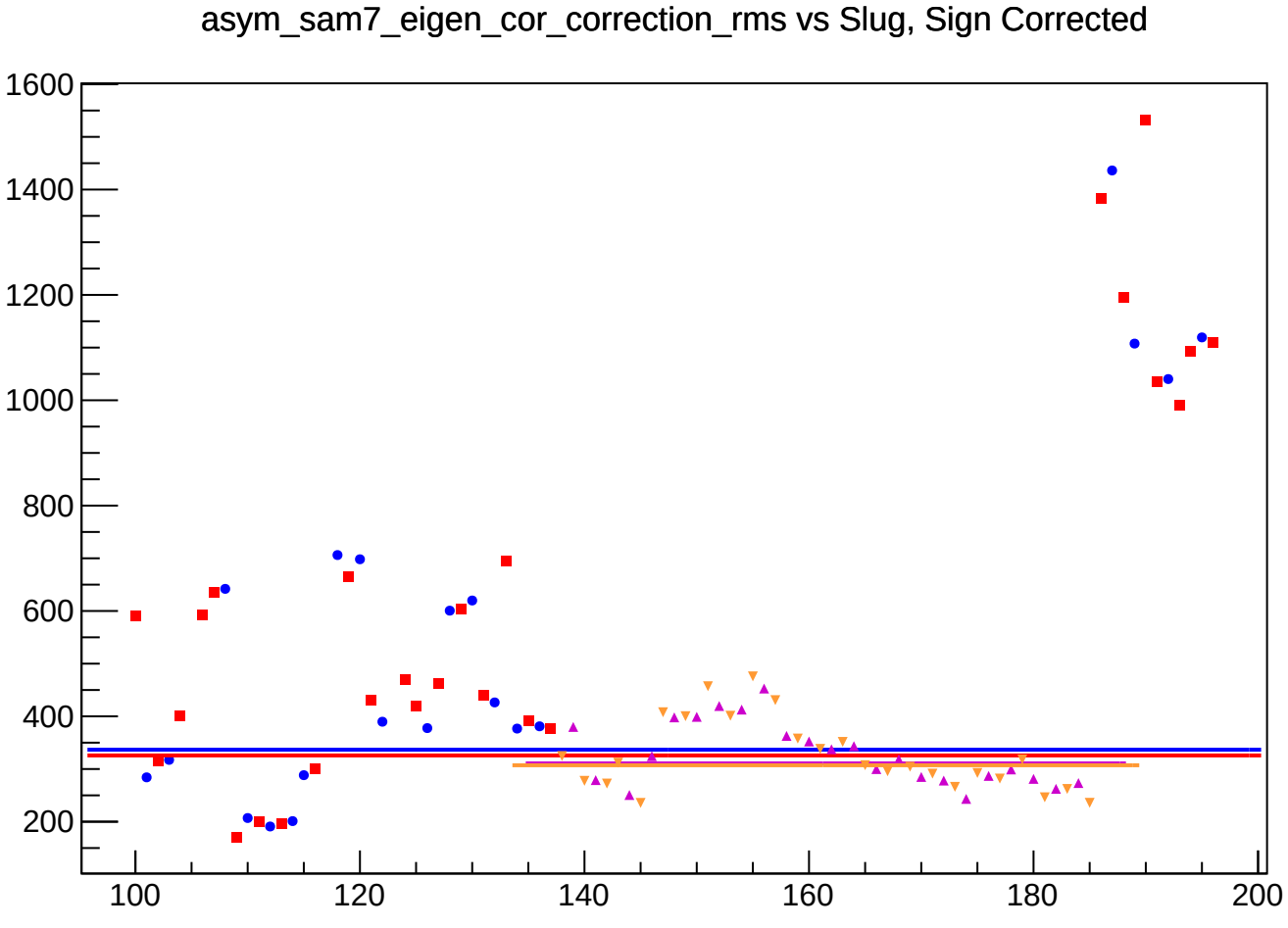
Left: -119.547+/-51.278 $\chi^2$/NDF: 98.7/47

Right: 73.042+/-84.375 $\chi^2$/NDF: 45.7/45

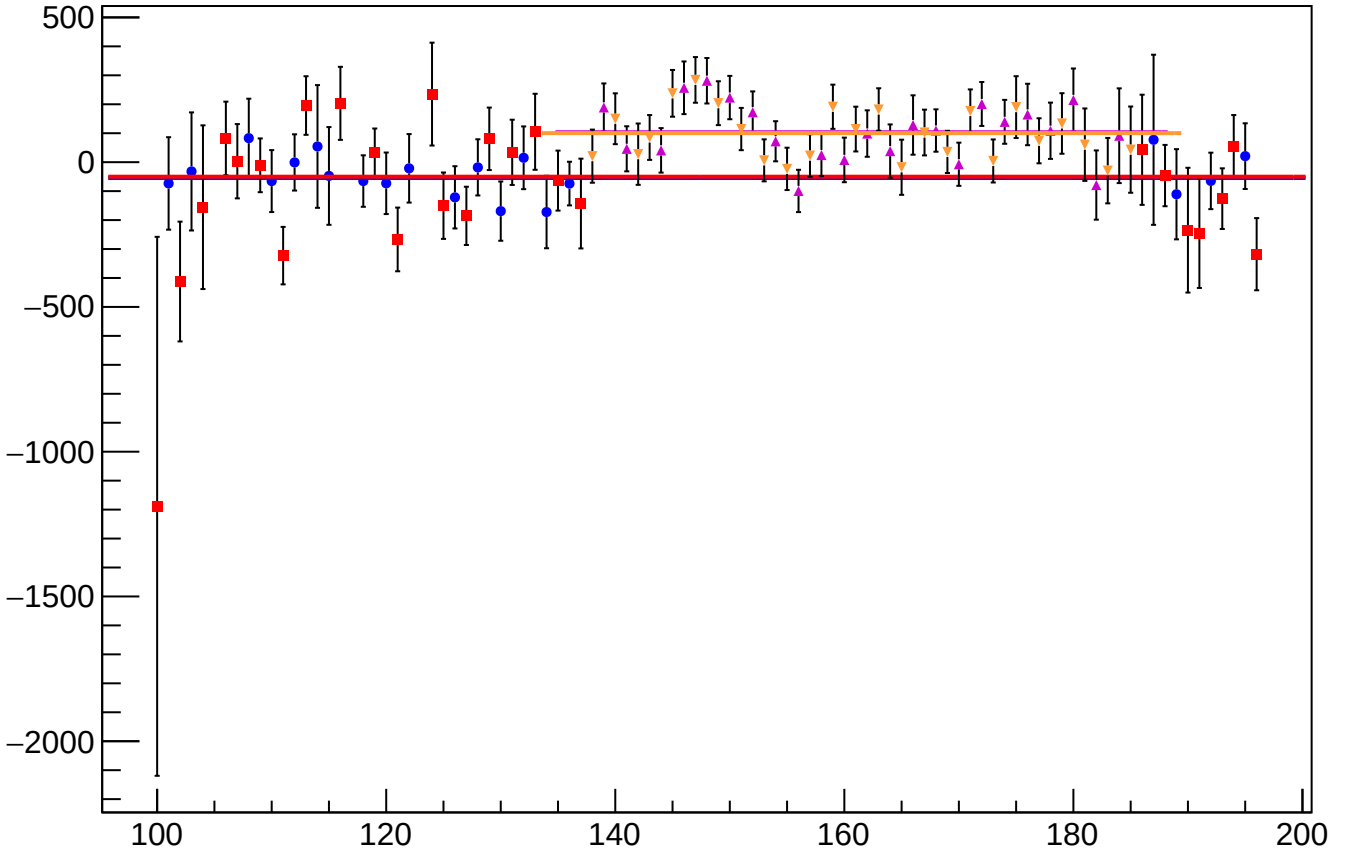
In: -9.804+/-63.423 $\chi^2$/NDF:56.0/42

Out: -120.392+/-60.615 $\chi^2$/NDF:90.6/50

All: -67.600+/-43.820 $\chi^2$/NDF: 148.2/93


asym_sam7_eigen_cor_correction_rms vs Slug, Sign Corrected
1600
1400
1200
1000
800
600
400
200
100
120
140
160
180
200
Right In: 336.682+/-0.088 χ²/NDF: 4658658.3/19
Left Out: 307.143+/-0.050 χ²/NDF:1320147.4/24
Right Out: 325.771+/-0.081 χ²/NDF: 7411408.5/25
Left In: 310.698+/-0.052 χ²/NDF:1079479.8/22
Left: 308.857+/-0.036 χ²/NDF: 2402026.6/47
Right: 330.834+/-0.060 χ²/NDF: 12078385.0/45
In: 317.511+/-0.045 χ²/NDF:5803081.6/42
Out: 312.296+/-0.043 χ²/NDF:8769351.8/50
All: 314.785+/-0.031 χ²/NDF: 14579499.7/93

# dit_asym_sam7_mean vs Slug, Sign Corrected




Right In: -54.406+/-25.793 $\chi^2$/NDF: 5.7/19

Left Out: 100.277+/-16.625 $\chi^2$/NDF:27.7/24

Right Out: -50.168+/-23.965 $\chi^2$/NDF: 45.6/25

Left In: 103.363+/-17.260 $\chi^2$/NDF:32.7/22

Left: 101.762+/-11.974 $\chi^2$/NDF: 60.4/47

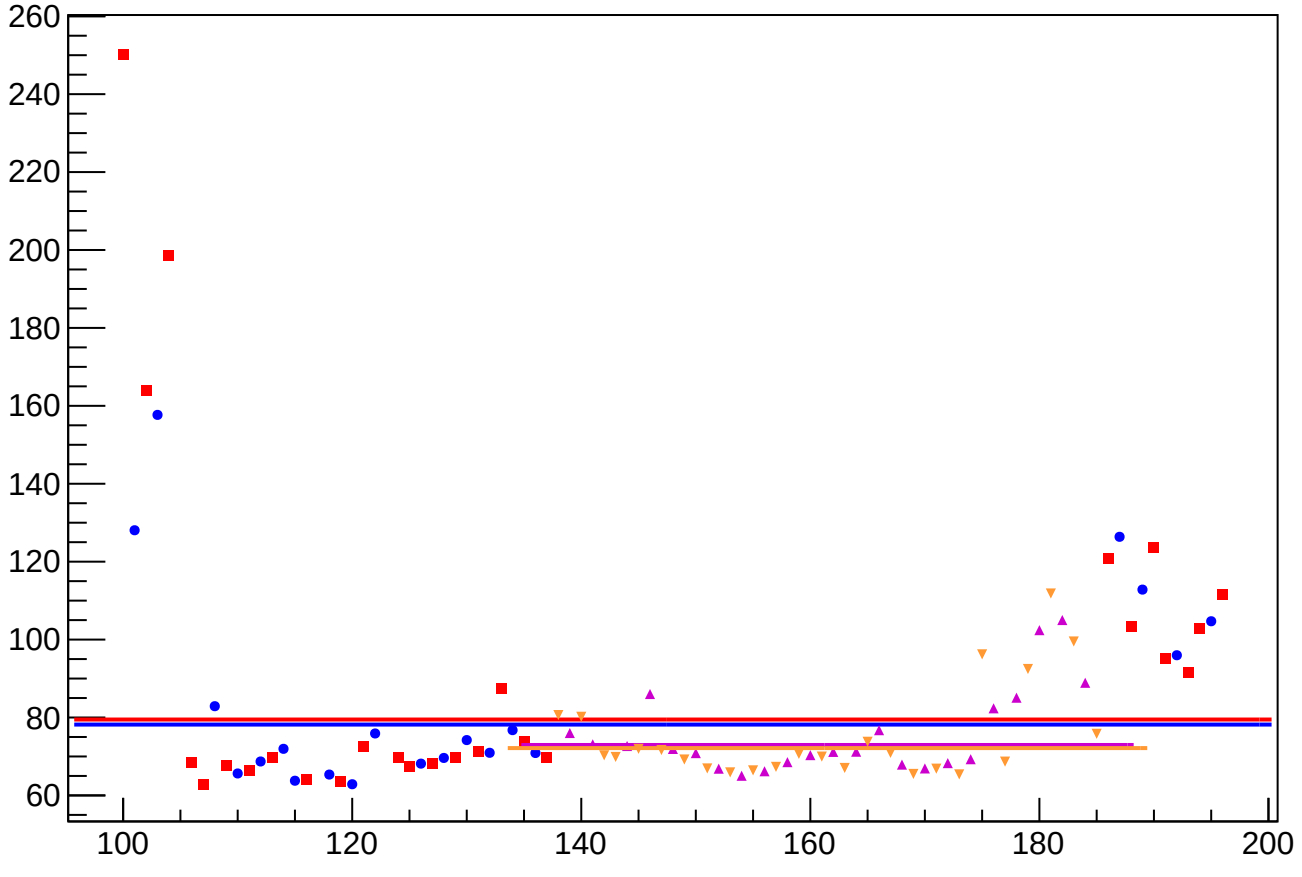
Right: -52.132+/-17.556 $\chi^2$/NDF: 51.3/45

In: 54.563+/-14.345 $\chi^2$/NDF:64.2/42

Out: 51.398+/-13.660 $\chi^2$/NDF:99.9/50

All: 52.903+/-9.892 $\chi^2$/NDF: 164.2/93

# dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 78.186+/-0.018 $\chi^2$/NDF: 1040613.0/19

Left Out: 72.150+/-0.012 $\chi^2$/NDF:641970.1/24

Right Out: 79.483+/-0.017 $\chi^2$/NDF: 1653786.3/25

Left In: 72.948+/-0.012 $\chi^2$/NDF:509028.0/22

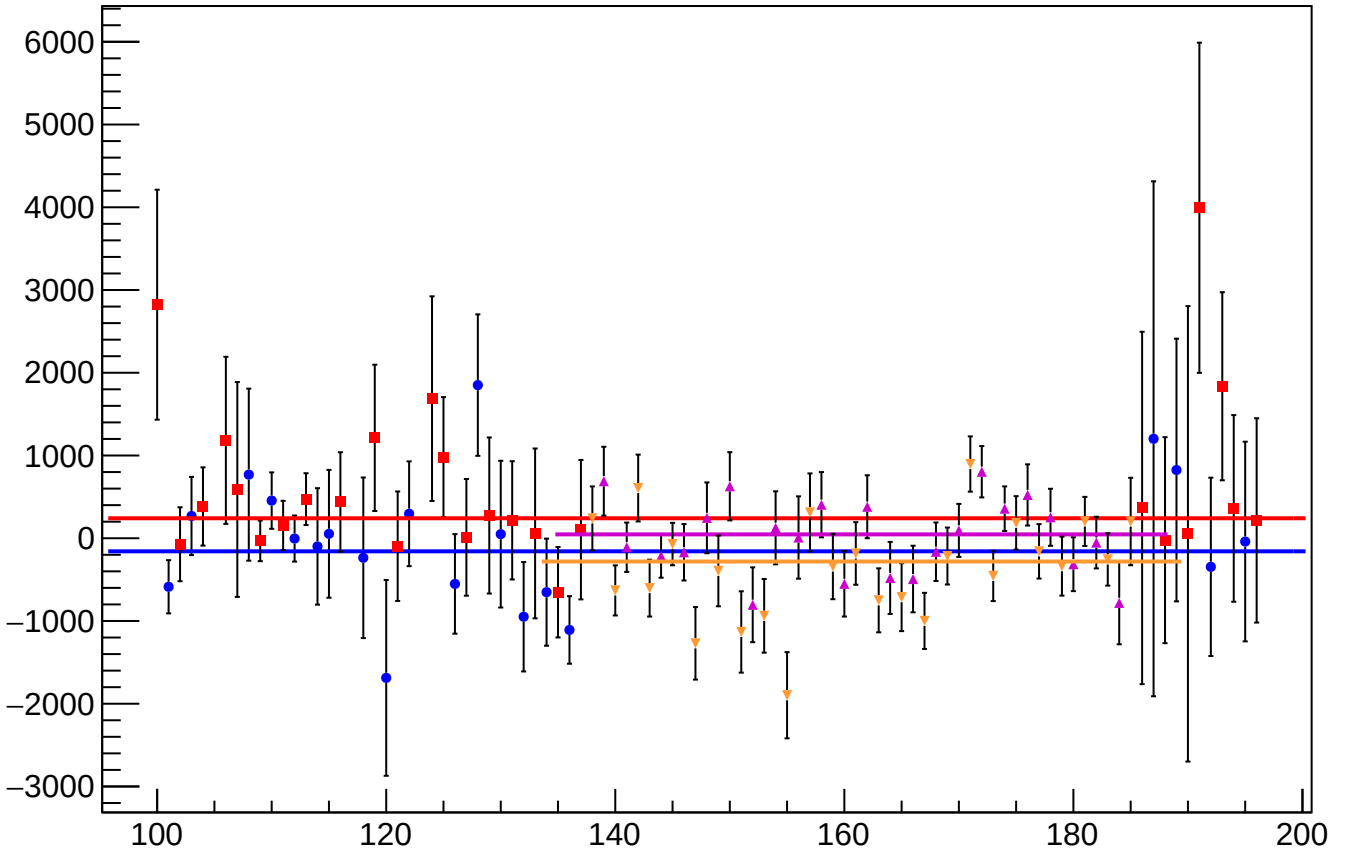
Left: 72.534+/-0.008 $\chi^2$/NDF: 1153218.8/47

Right: 78.882+/-0.012 $\chi^2$/NDF: 2697115.3/45

In: 74.568+/-0.010 $\chi^2$/NDF:1606607.3/42

Out: 74.532+/-0.010 $\chi^2$/NDF:2422199.4/50

All: 74.549+/-0.007 $\chi^2$/NDF: 4028813.3/93




Right In: -158.076+/-126.321 $\chi^2$/NDF: 23.2/19

Left Out: -281.205+/-72.538 $\chi^2$/NDF:56.8/24

Right Out: 241.448+/-117.227 $\chi^2$/NDF: 19.2/25

Left In: 46.569+/-74.897 $\chi^2$/NDF:30.7/22

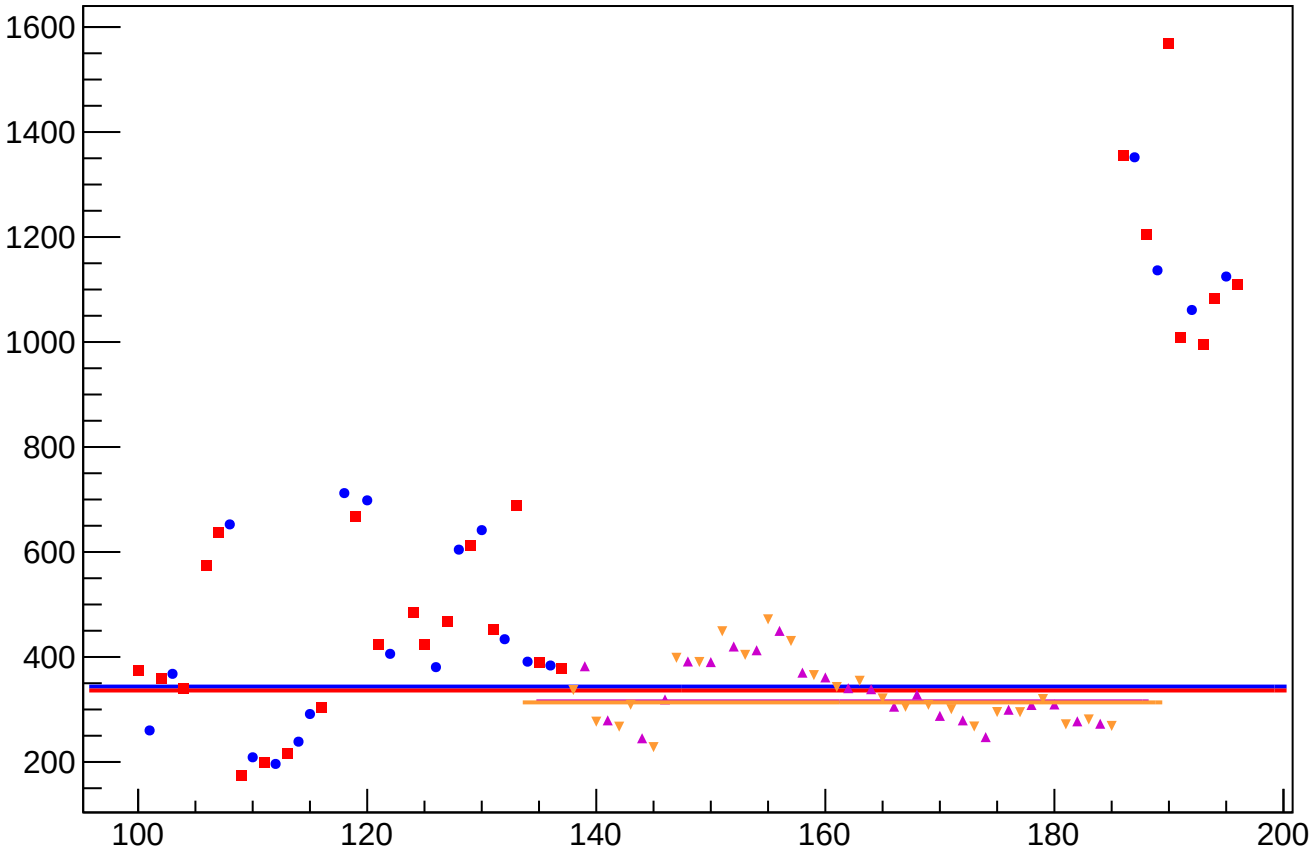
Left: -122.562+/-52.106 $\chi^2$/NDF: 97.4/47

Right: 56.584+/-85.927 $\chi^2$/NDF: 47.9/45

In: -6.660+/-64.424 $\chi^2$/NDF:55.9/42

Out: -136.494+/-61.684 $\chi^2$/NDF:90.4/50

All: -74.397+/-44.554 $\chi^2$/NDF: 148.5/93




Right In: 343.613+/-0.089 $\chi^2$/NDF: 4651313.6/19

Left Out: 313.500+/-0.051 $\chi^2$/NDF:1175529.4/24

Right Out: 336.168+/-0.083 $\chi^2$/NDF: 7151520.0/25

Left In: 315.455+/-0.053 $\chi^2$/NDF:1008523.1/22

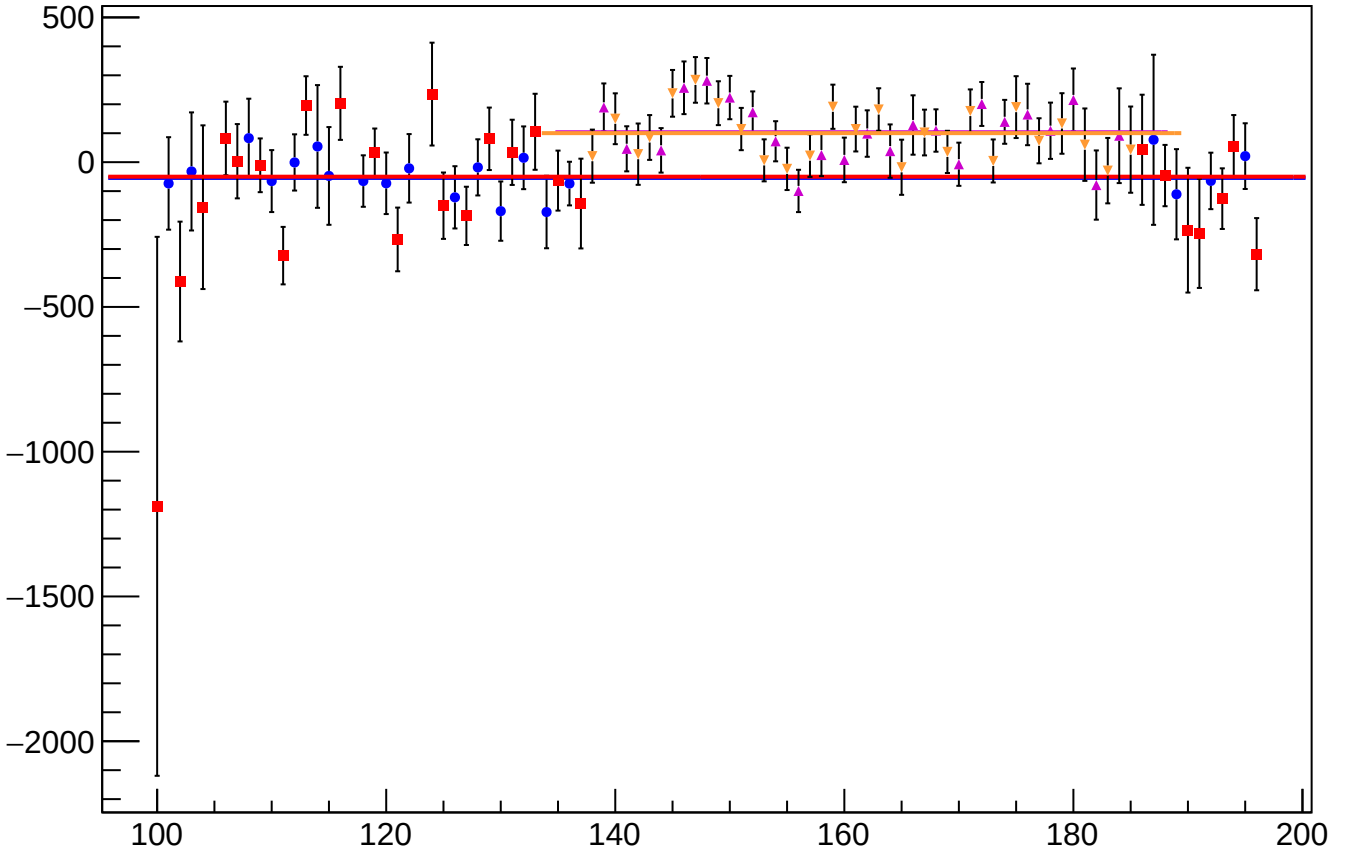
Left: 314.446+/-0.037 $\chi^2$/NDF: 2184755.7/47

Right: 339.613+/-0.061 $\chi^2$/NDF: 11806566.2/45

In: 322.779+/-0.046 $\chi^2$/NDF:5733363.7/42

Out: 319.776+/-0.044 $\chi^2$/NDF:8381127.3/50

All: 321.213+/-0.032 $\chi^2$/NDF: 14116757.9/93




Right In: -54.405+/-25.793 $\chi^2$/NDF: 5.7/19

Left Out: 100.276+/-16.625 $\chi^2$/NDF:27.7/24

Right Out: -50.169+/-23.965 $\chi^2$/NDF: 45.6/25

Left In: 103.363+/-17.260 $\chi^2$/NDF:32.7/22

Left: 101.762+/-11.974 $\chi^2$/NDF: 60.4/47

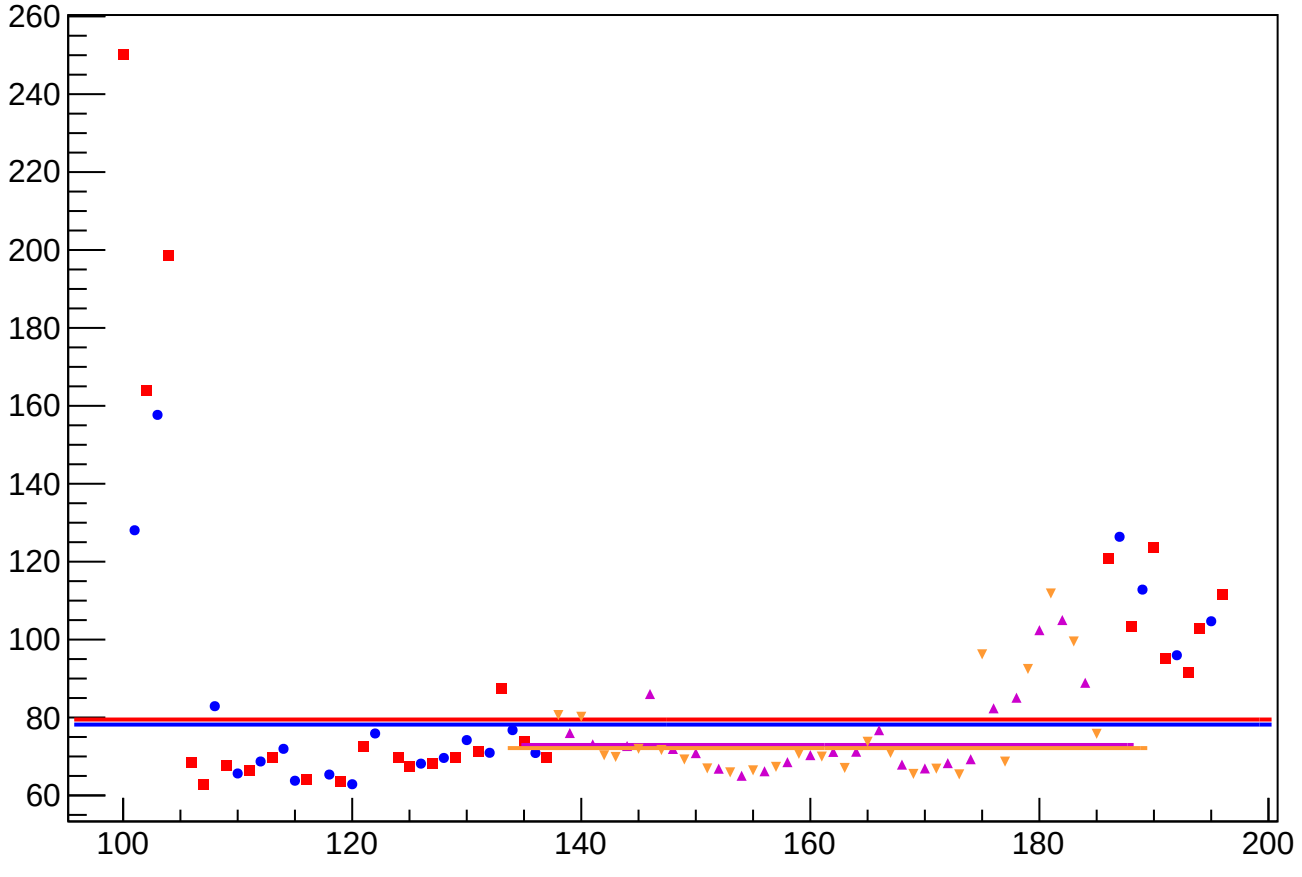
Right: -52.132+/-17.556 $\chi^2$/NDF: 51.3/45

In: 54.563+/-14.345 $\chi^2$/NDF:64.2/42

Out: 51.398+/-13.660 $\chi^2$/NDF:99.9/50

All: 52.903+/-9.892 $\chi^2$/NDF: 164.2/93

# eigen_dit_asym_sam7_rms vs Slug, Sign Corrected




Right In: 78.186+/-0.018 $\chi^2$/NDF: 1040621.1/19

Left Out: 72.150+/-0.012 $\chi^2$/NDF:641967.4/24

Right Out: 79.483+/-0.017 $\chi^2$/NDF: 1653783.1/25

Left In: 72.948+/-0.012 $\chi^2$/NDF:509028.7/22

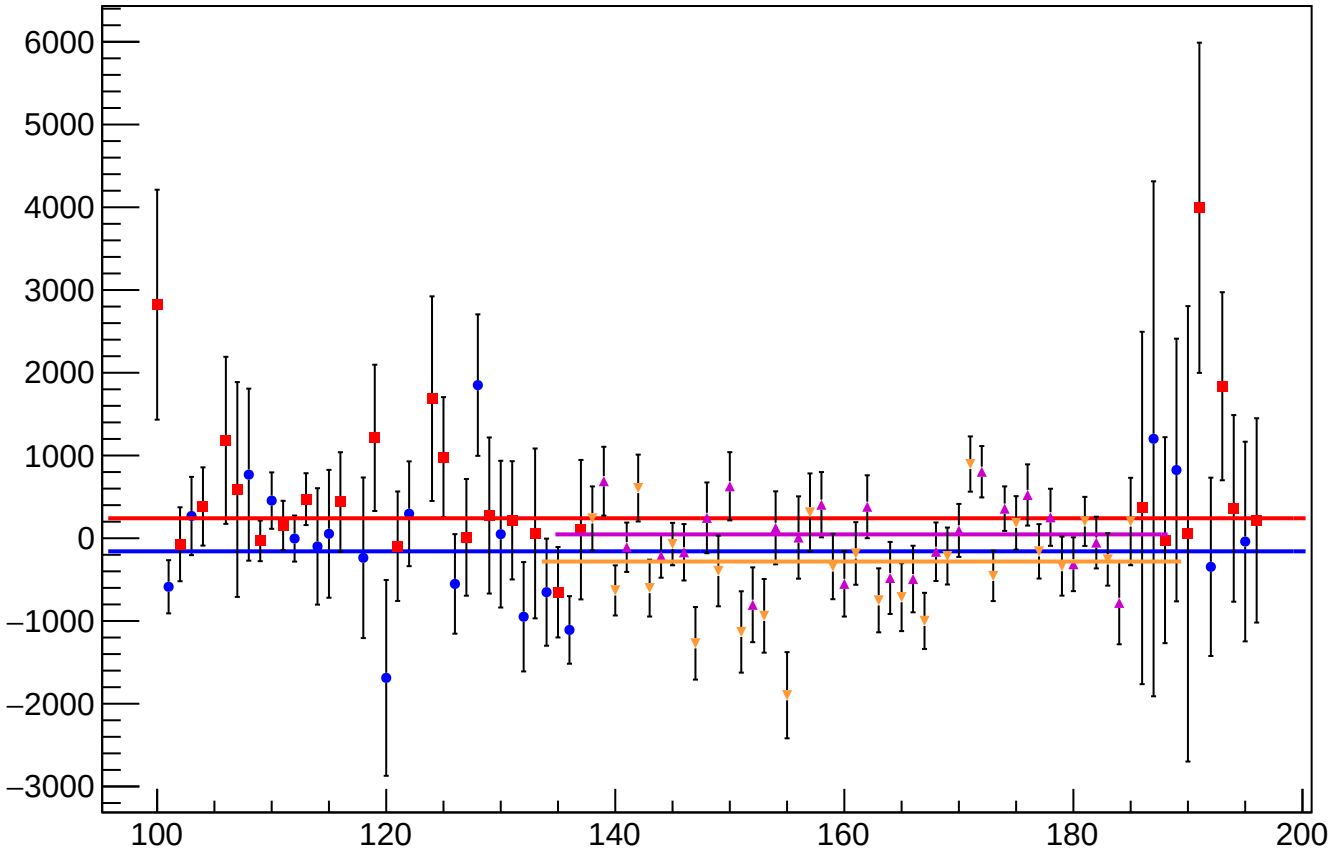
Left: 72.534+/-0.008 $\chi^2$/NDF: 1153216.9/47

Right: 78.882+/-0.012 $\chi^2$/NDF: 2697120.2/45

In: 74.568+/-0.010 $\chi^2$/NDF:1606612.9/42

Out: 74.532+/-0.010 $\chi^2$/NDF:2422189.0/50

All: 74.549+/-0.007 $\chi^2$/NDF: 4028808.4/93




Right In: -158.075+/-126.321 $\chi^2$/NDF: 23.2/19

Left Out: -281.205+/-72.538 $\chi^2$/NDF:56.8/24

Right Out: 241.446+/-117.226 $\chi^2$/NDF: 19.2/25

Left In: 46.569+/-74.897 $\chi^2$/NDF:30.7/22

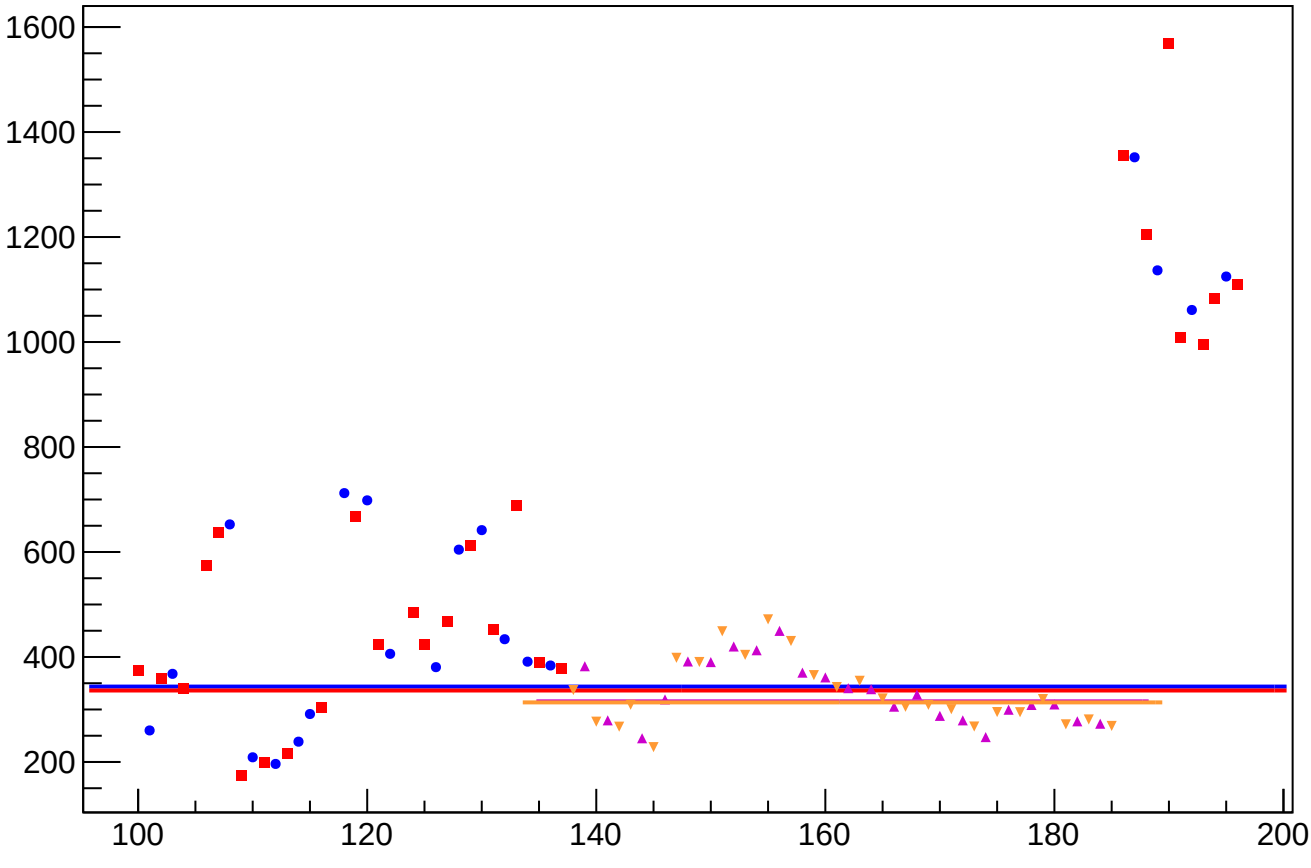
Left: -122.562+/-52.106 $\chi^2$/NDF: 97.4/47

Right: 56.584+/-85.927 $\chi^2$/NDF: 47.9/45

In: -6.661+/-64.424 $\chi^2$/NDF:55.9/42

Out: -136.493+/-61.684 $\chi^2$/NDF:90.4/50

All: -74.397+/-44.554 $\chi^2$/NDF: 148.5/93




Right In: 343.610+/-0.089 $\chi^2$/NDF: 4651362.9/19

Left Out: 313.500+/-0.051 $\chi^2$/NDF:1175534.8/24

Right Out: 336.167+/-0.083 $\chi^2$/NDF: 7151547.8/25

Left In: 315.456+/-0.053 $\chi^2$/NDF:1008521.8/22

Left: 314.447+/-0.037 $\chi^2$/NDF: 2184760.0/47

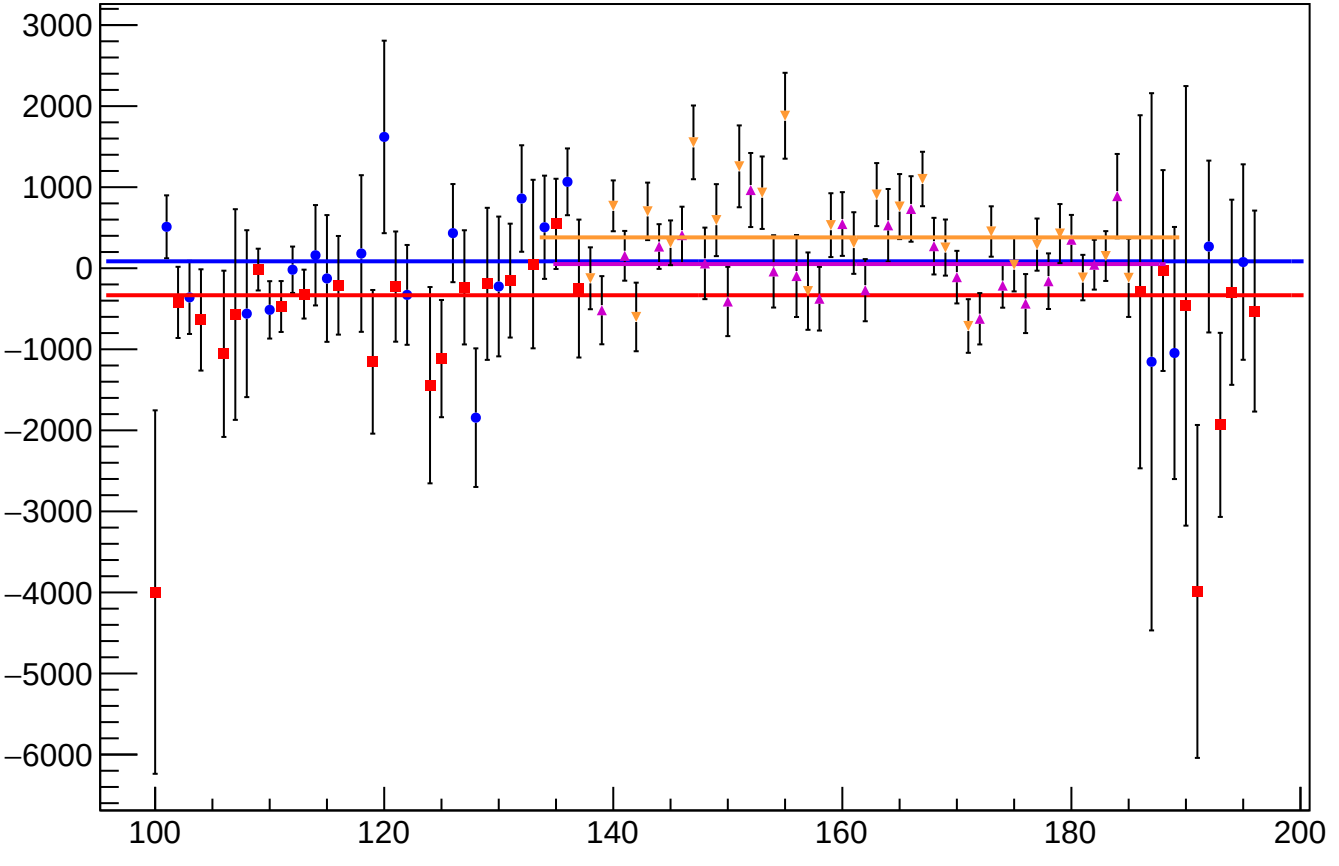
Right: 339.611+/-0.061 $\chi^2$/NDF: 11806642.4/45

In: 322.779+/-0.046 $\chi^2$/NDF:5733397.1/42

Out: 319.776+/-0.044 $\chi^2$/NDF:8381152.3/50

All: 321.212+/-0.032 $\chi^2$/NDF: 14116816.2/93

# asym_sam7_mean vs Slug, Sign Corrected




Right In: 85.412+/-129.600 $\chi^2$/NDF: 21.5/19

Left Out: 380.624+/-73.057 $\chi^2$/NDF:55.4/24

Right Out: -333.226+/-120.779 $\chi^2$/NDF: 16.1/25

Left In: 51.474+/-75.629 $\chi^2$/NDF:28.2/22

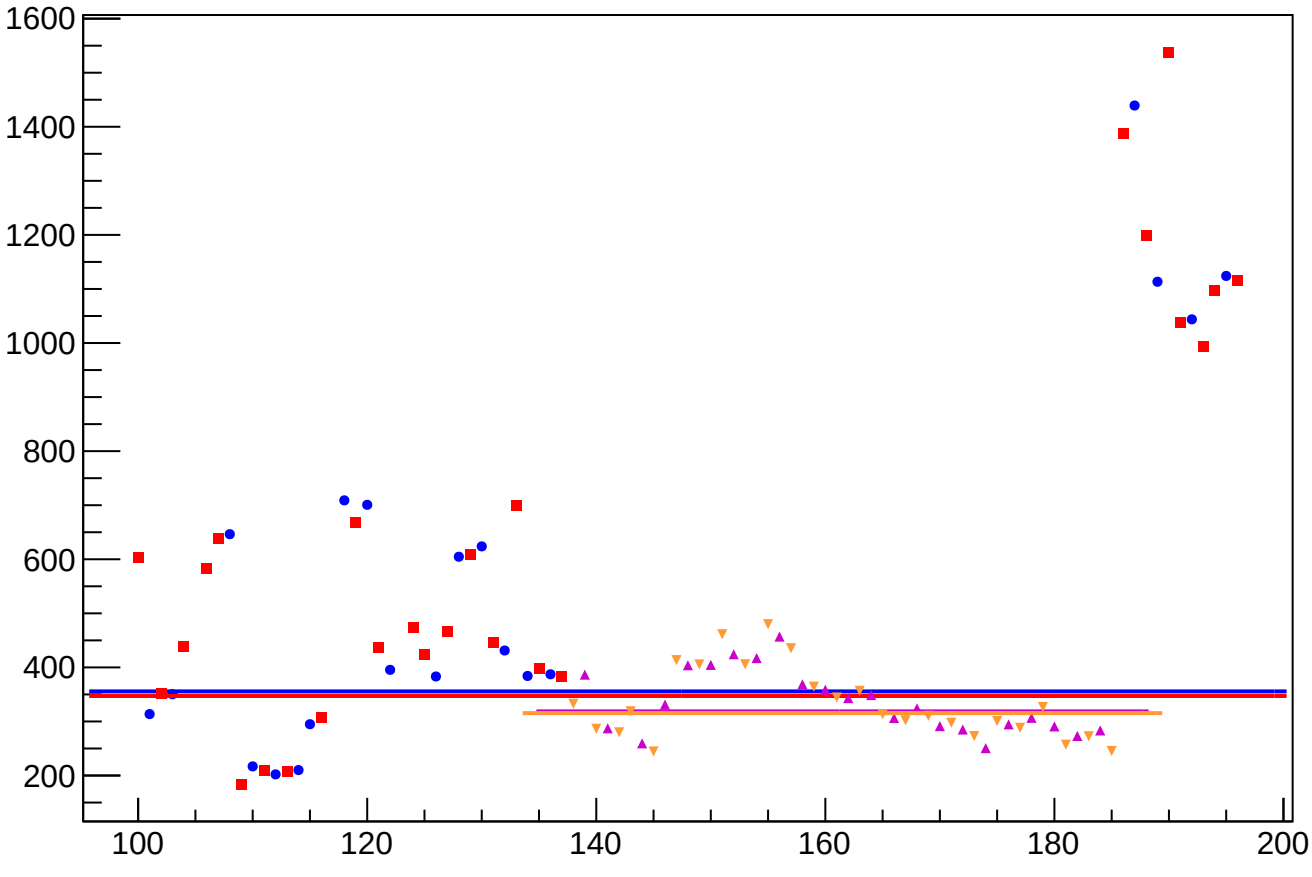
Left: 221.742+/-52.545 $\chi^2$/NDF: 93.4/47

Right: -138.638+/-88.358 $\chi^2$/NDF: 43.2/45

In: 60.095+/-65.321 $\chi^2$/NDF:49.8/42

Out: 189.405+/-62.510 $\chi^2$/NDF:97.1/50

All: 127.591+/-45.162 $\chi^2$/NDF: 148.9/93




Right In: 355.594+/-0.092 $\chi^2$/NDF: 4386693.6/19

Left Out: 315.396+/-0.052 $\chi^2$/NDF:1210106.0/24

Right Out: 347.083+/-0.085 $\chi^2$/NDF: 7040653.5/25

Left In: 318.688+/-0.053 $\chi^2$/NDF:991604.7/22

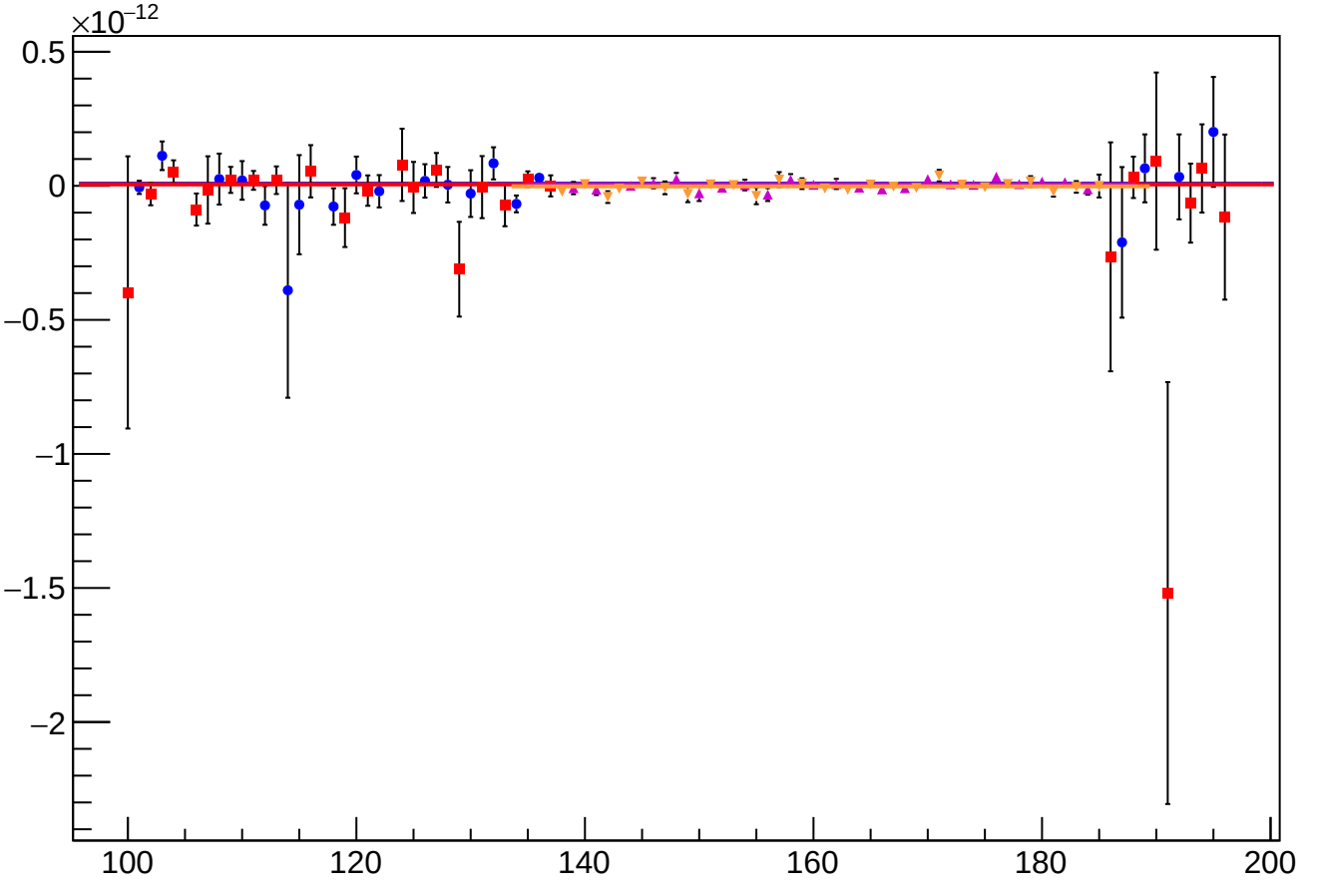
Left: 316.985+/-0.037 $\chi^2$/NDF: 2203671.8/47

Right: 351.039+/-0.062 $\chi^2$/NDF: 11431963.5/45

In: 328.064+/-0.046 $\chi^2$/NDF:5499281.5/42

Out: 323.884+/-0.044 $\chi^2$/NDF:8351546.6/50

All: 325.882+/-0.032 $\chi^2$/NDF: 13855102.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:17.7/22

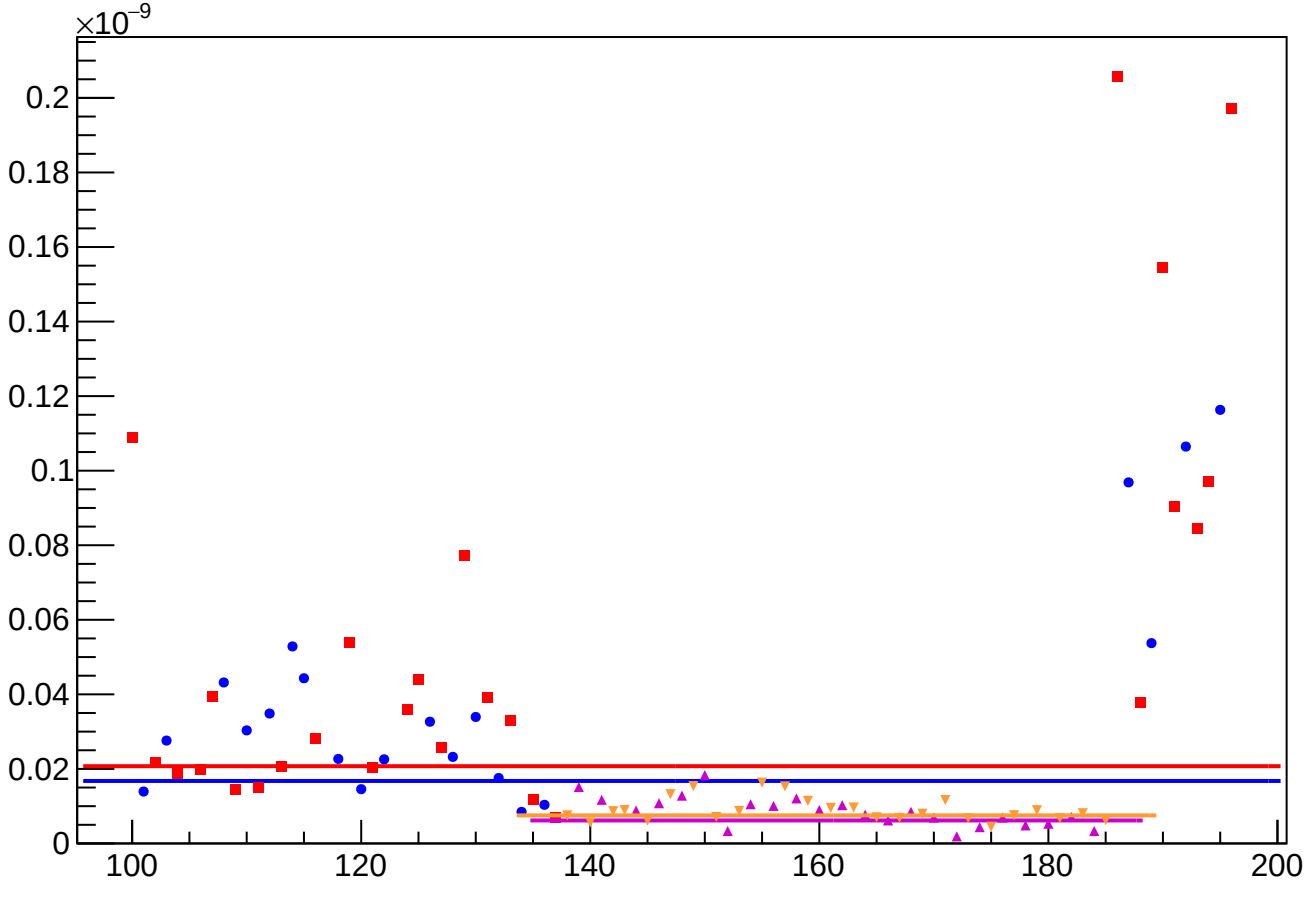
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:37.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:37.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 76.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2629879.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1208953.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3560873.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2784673.9/22

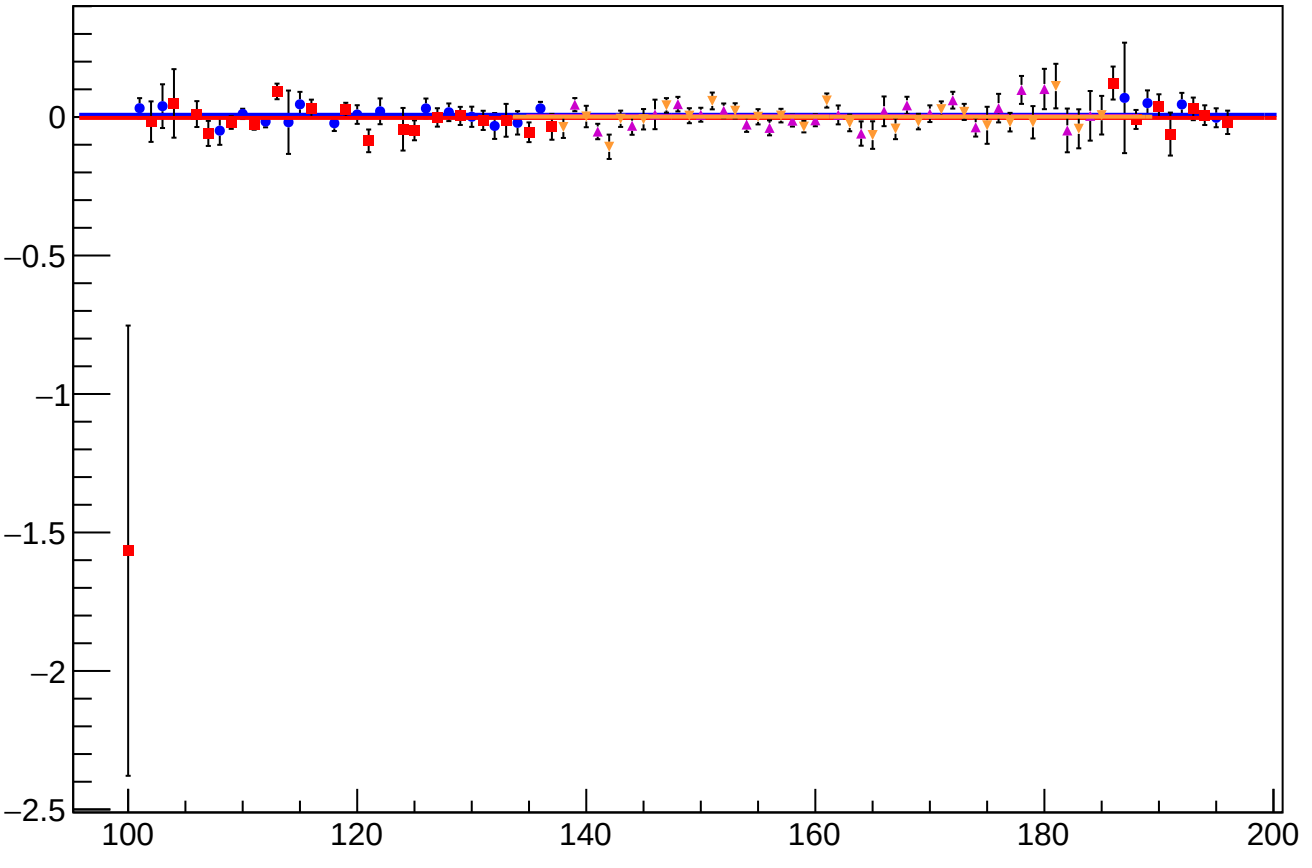
Left: 0.000+/-0.000 $\chi^2$/NDF: 4183311.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6304910.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:7180727.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6843362.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 14245740.7/93




Right In: 0.008+/-0.008 $\chi^2$/NDF: 9.8/19

Left Out: 0.001+/-0.006 $\chi^2$/NDF:30.3/24

Right Out: -0.003+/-0.007 $\chi^2$/NDF: 37.0/25

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.1/22

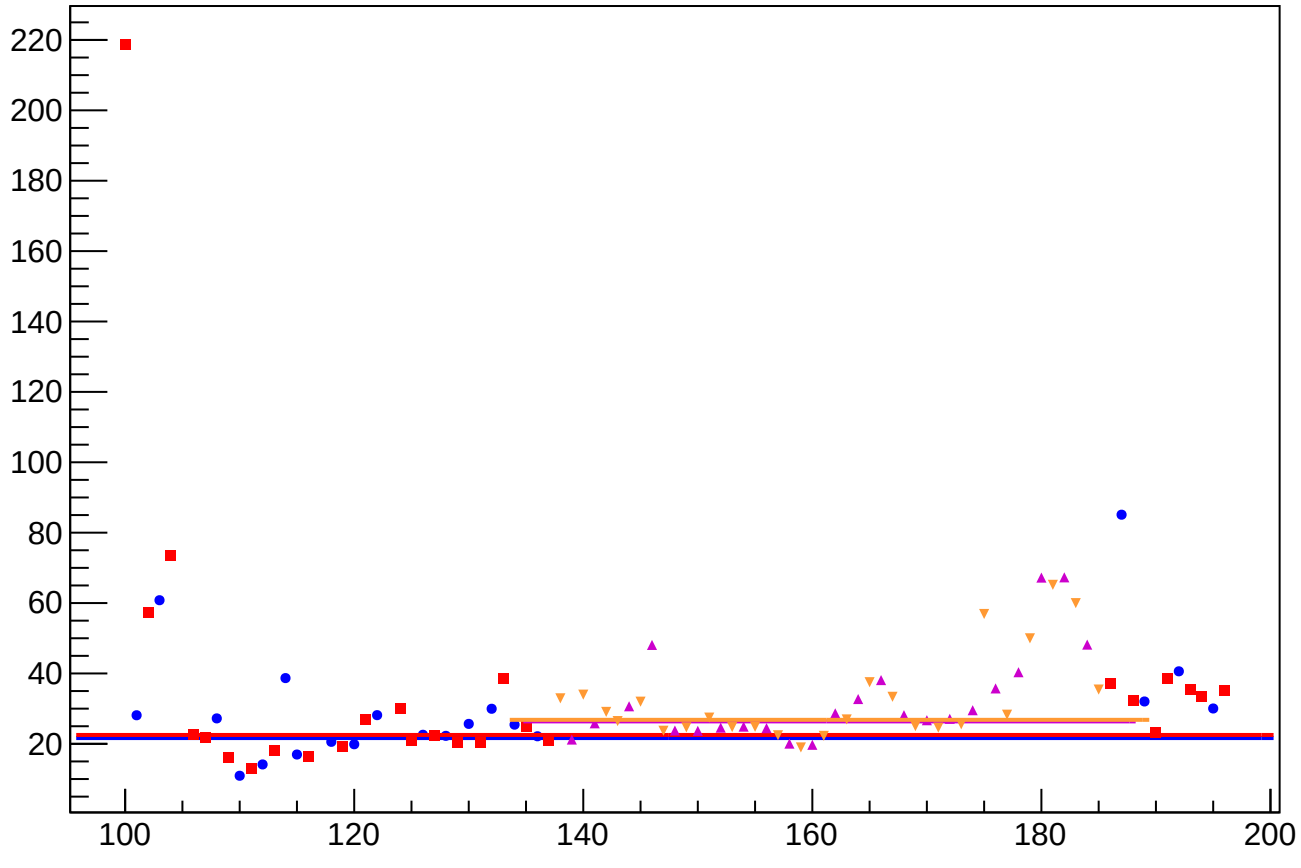
Left: 0.003+/-0.005 $\chi^2$/NDF: 61.5/47

Right: 0.002+/-0.005 $\chi^2$/NDF: 47.9/45

In: 0.006+/-0.005 $\chi^2$/NDF:41.1/42

Out: -0.001+/-0.005 $\chi^2$/NDF:67.4/50

All: 0.002+/-0.003 $\chi^2$/NDF: 109.4/93




Right In: 21.639+/-0.005 $\chi^2$/NDF: 2560059.3/19

Left Out: 26.820+/-0.005 $\chi^2$/NDF:2469807.6/24

Right Out: 22.523+/-0.005 $\chi^2$/NDF: 2856705.7/25

Left In: 26.376+/-0.005 $\chi^2$/NDF:2566400.7/22

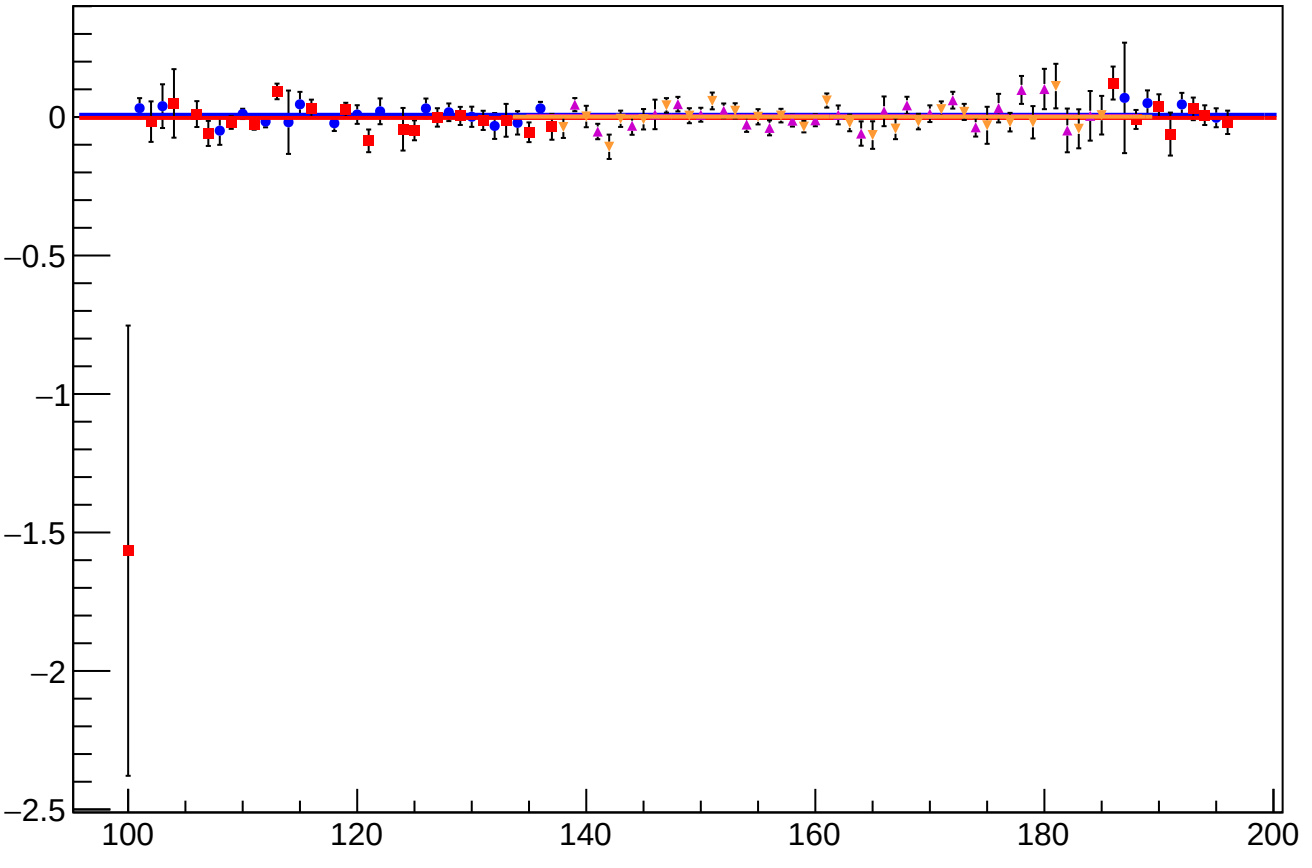
Left: 26.602+/-0.003 $\chi^2$/NDF: 5040807.2/47

Right: 22.108+/-0.004 $\chi^2$/NDF: 5430764.7/45

In: 24.366+/-0.004 $\chi^2$/NDF:5563284.5/42

Out: 24.906+/-0.003 $\chi^2$/NDF:5716620.5/50

All: 24.645+/-0.002 $\chi^2$/NDF: 11291927.1/93




Right In: 0.008+/-0.008 $\chi^2$/NDF: 9.8/19

Left Out: 0.001+/-0.006 $\chi^2$/NDF:30.3/24

Right Out: -0.003+/-0.007 $\chi^2$/NDF: 37.0/25

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 61.5/47

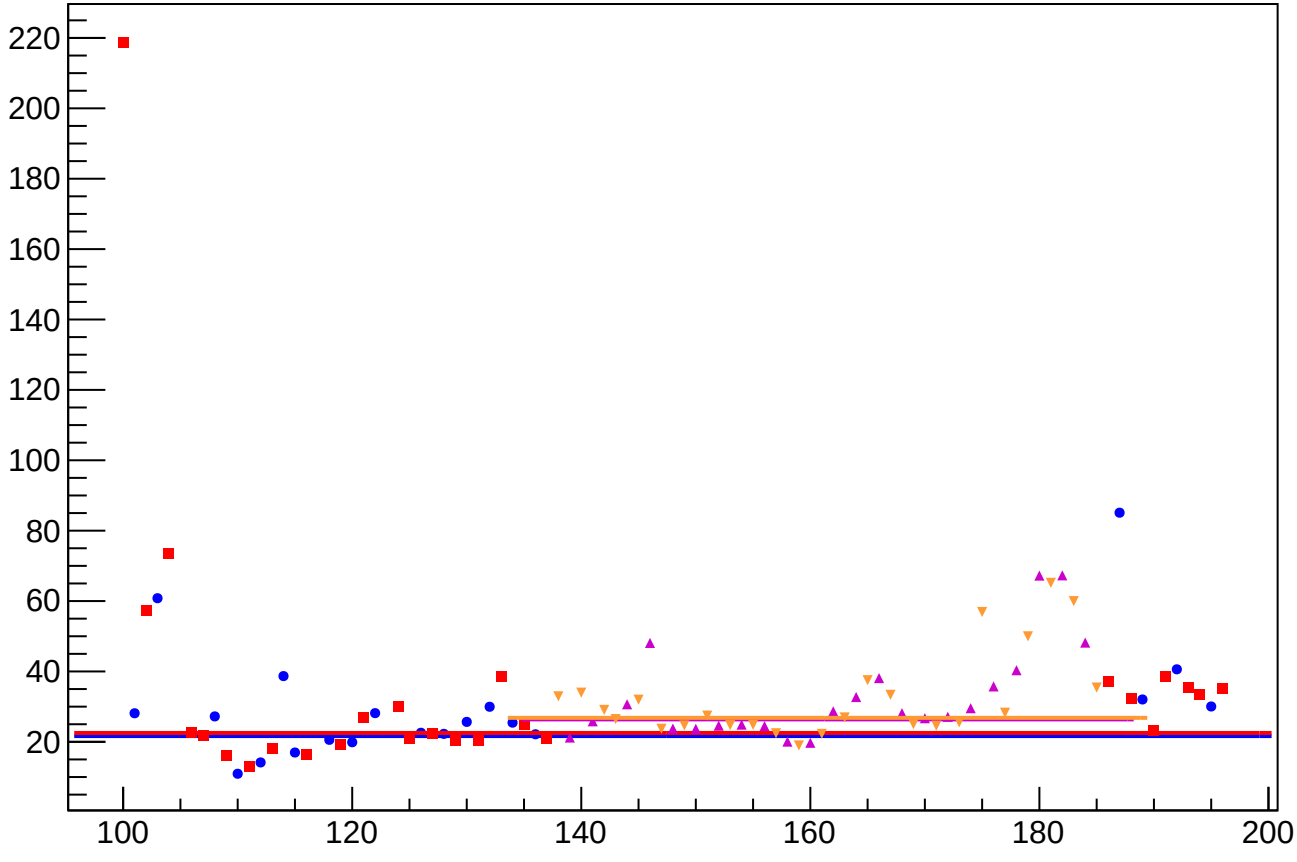
Right: 0.002+/-0.005 $\chi^2$/NDF: 47.9/45

In: 0.006+/-0.005 $\chi^2$/NDF:41.1/42

Out: -0.001+/-0.005 $\chi^2$/NDF:67.4/50

All: 0.002+/-0.003 $\chi^2$/NDF: 109.4/93

asym_sam7_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.639+/-0.005 $\chi^2$/NDF: 2560059.3/19

Left Out: 26.820+/-0.005 $\chi^2$/NDF:2469807.6/24

Right Out: 22.523+/-0.005 $\chi^2$/NDF: 2856705.7/25

Left In: 26.376+/-0.005 $\chi^2$/NDF:2566400.7/22

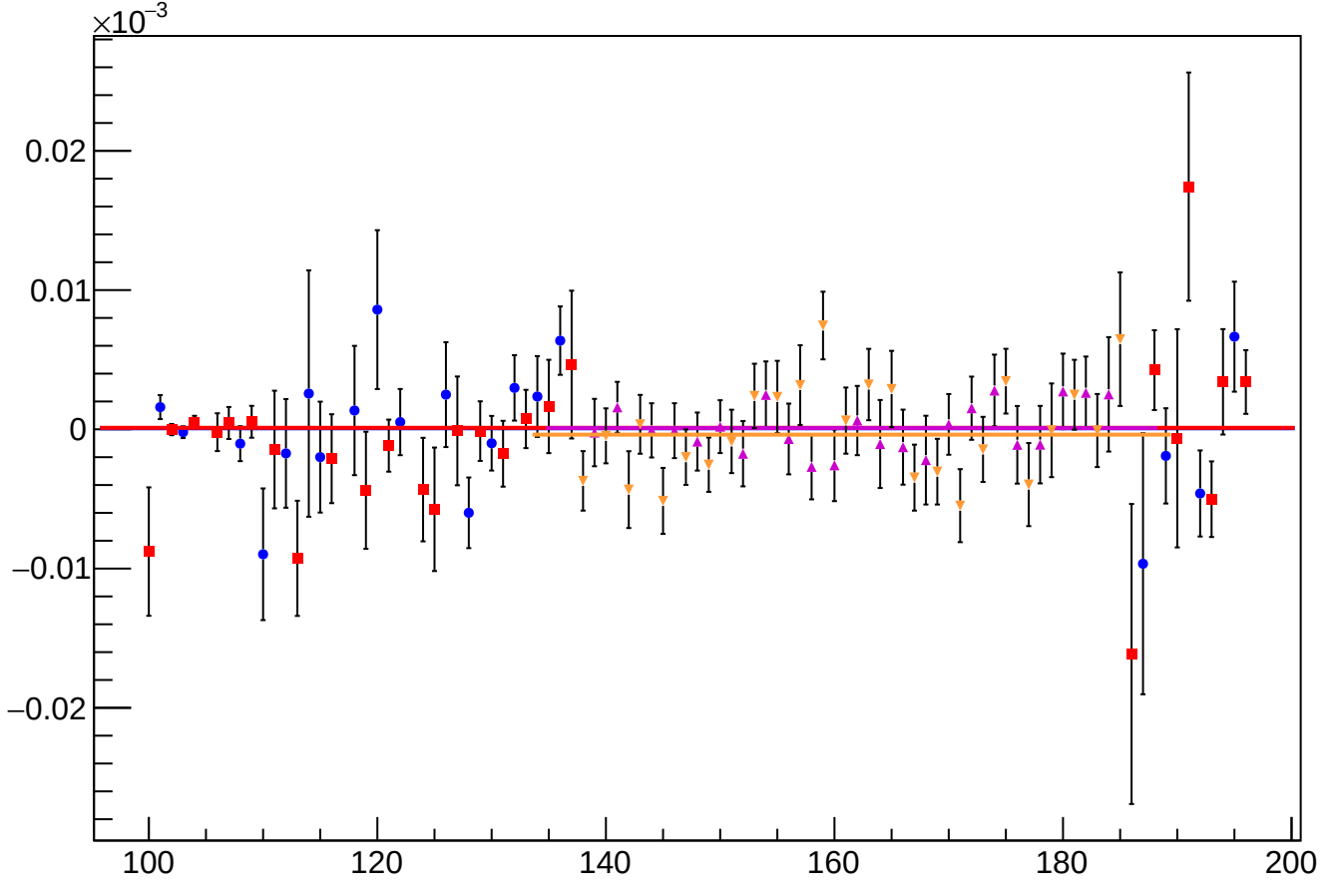
Left: 26.602+/-0.003 $\chi^2$/NDF: 5040807.2/47

Right: 22.108+/-0.004 $\chi^2$/NDF: 5430764.7/45

In: 24.366+/-0.004 $\chi^2$/NDF:5563284.5/42

Out: 24.906+/-0.003 $\chi^2$/NDF:5716620.5/50

All: 24.645+/-0.002 $\chi^2$/NDF: 11291927.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 32.5/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:43.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 32.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:10.2/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 53.8/47

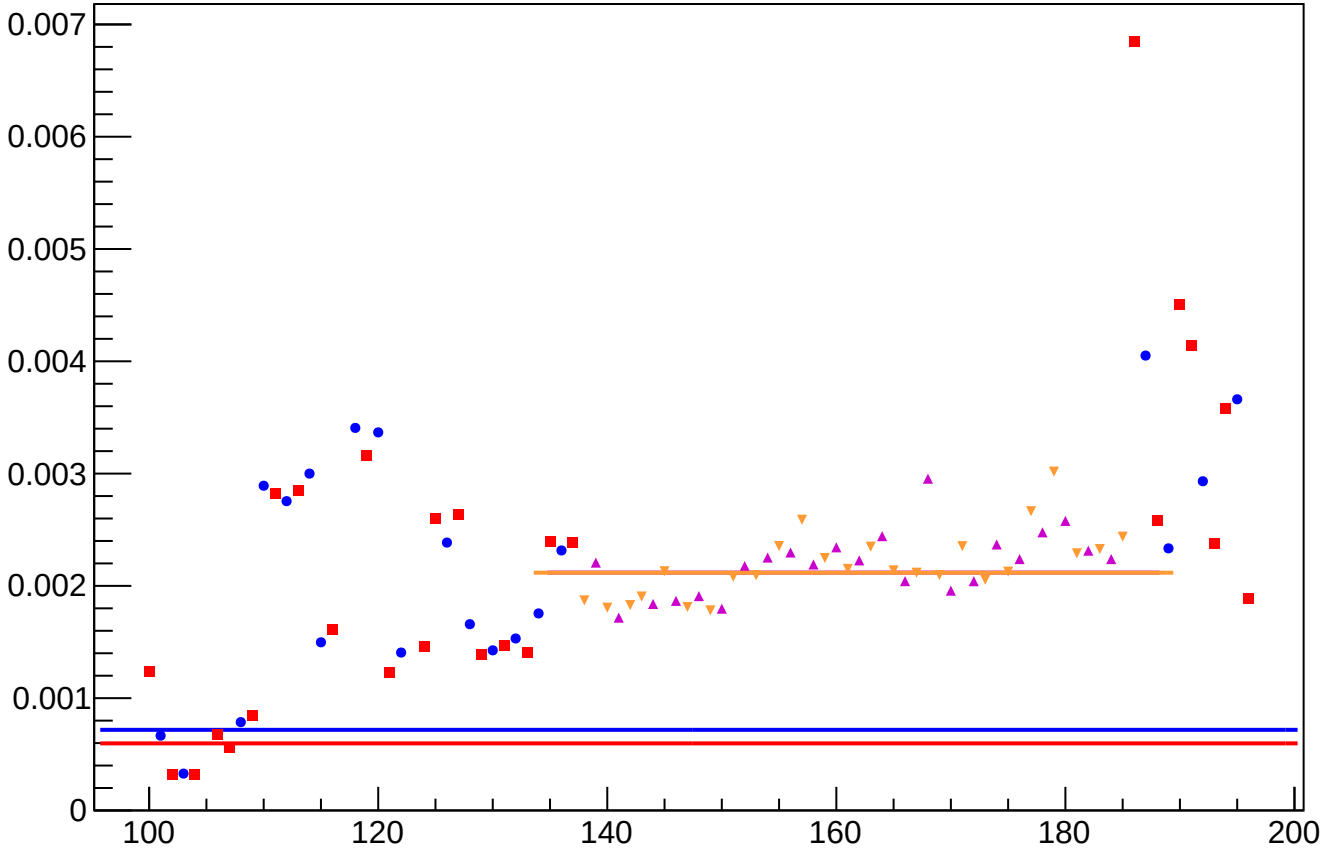
Right: 0.000+/-0.000 $\chi^2$/NDF: 64.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:42.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:76.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 119.0/93

# asym_sam7_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 9271581.3/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:578720.8/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 12083715.3/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:588580.3/22

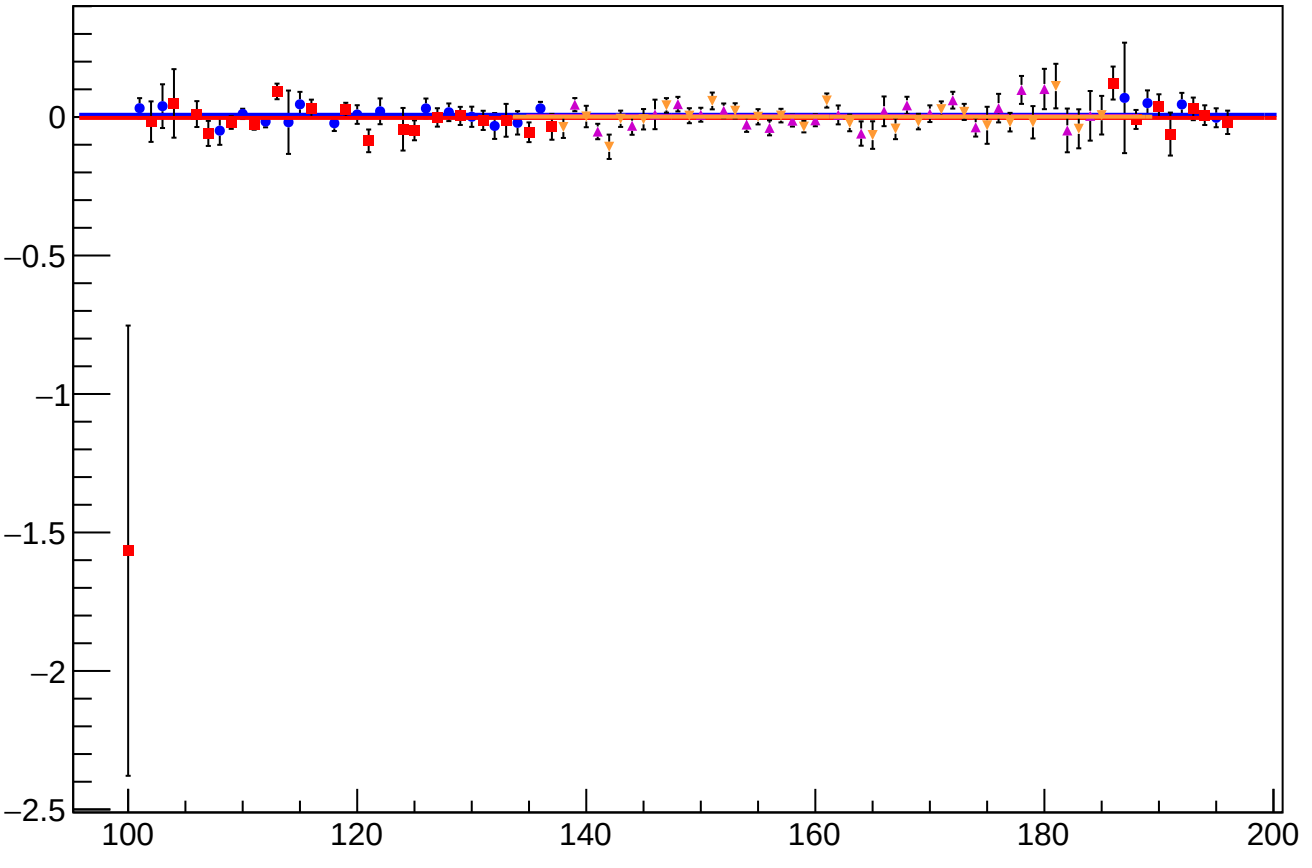
Left: 0.002+/-0.000 $\chi^2$/NDF: 1167305.8/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 21523654.8/45

In: 0.001+/-0.000 $\chi^2$/NDF:20806095.9/42

Out: 0.001+/-0.000 $\chi^2$/NDF:27966992.0/50

All: 0.001+/-0.000 $\chi^2$/NDF: 49497697.3/93




Right In: 0.008+/-0.008 $\chi^2$/NDF: 9.8/19

Left Out: 0.001+/-0.006 $\chi^2$/NDF:30.3/24

Right Out: -0.003+/-0.007 $\chi^2$/NDF: 37.0/25

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 61.5/47

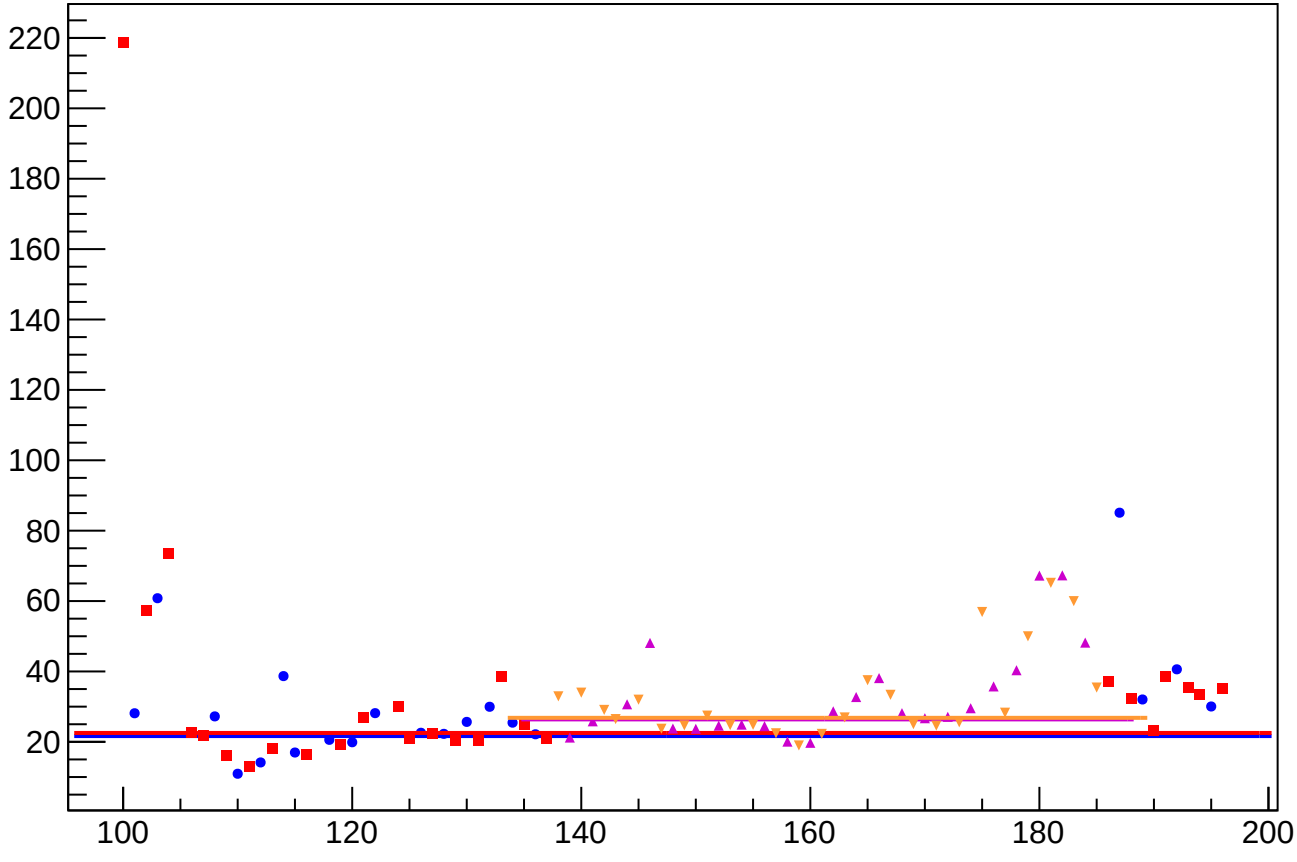
Right: 0.002+/-0.005 $\chi^2$/NDF: 47.9/45

In: 0.006+/-0.005 $\chi^2$/NDF:41.1/42

Out: -0.001+/-0.005 $\chi^2$/NDF:67.4/50

All: 0.002+/-0.003 $\chi^2$/NDF: 109.4/93

asym_sam7_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.640+/-0.005 $\chi^2$/NDF: 2559861.6/19

Left Out: 26.820+/-0.005 $\chi^2$/NDF:2469855.0/24

Right Out: 22.523+/-0.005 $\chi^2$/NDF: 2856459.6/25

Left In: 26.376+/-0.005 $\chi^2$/NDF:2566477.5/22

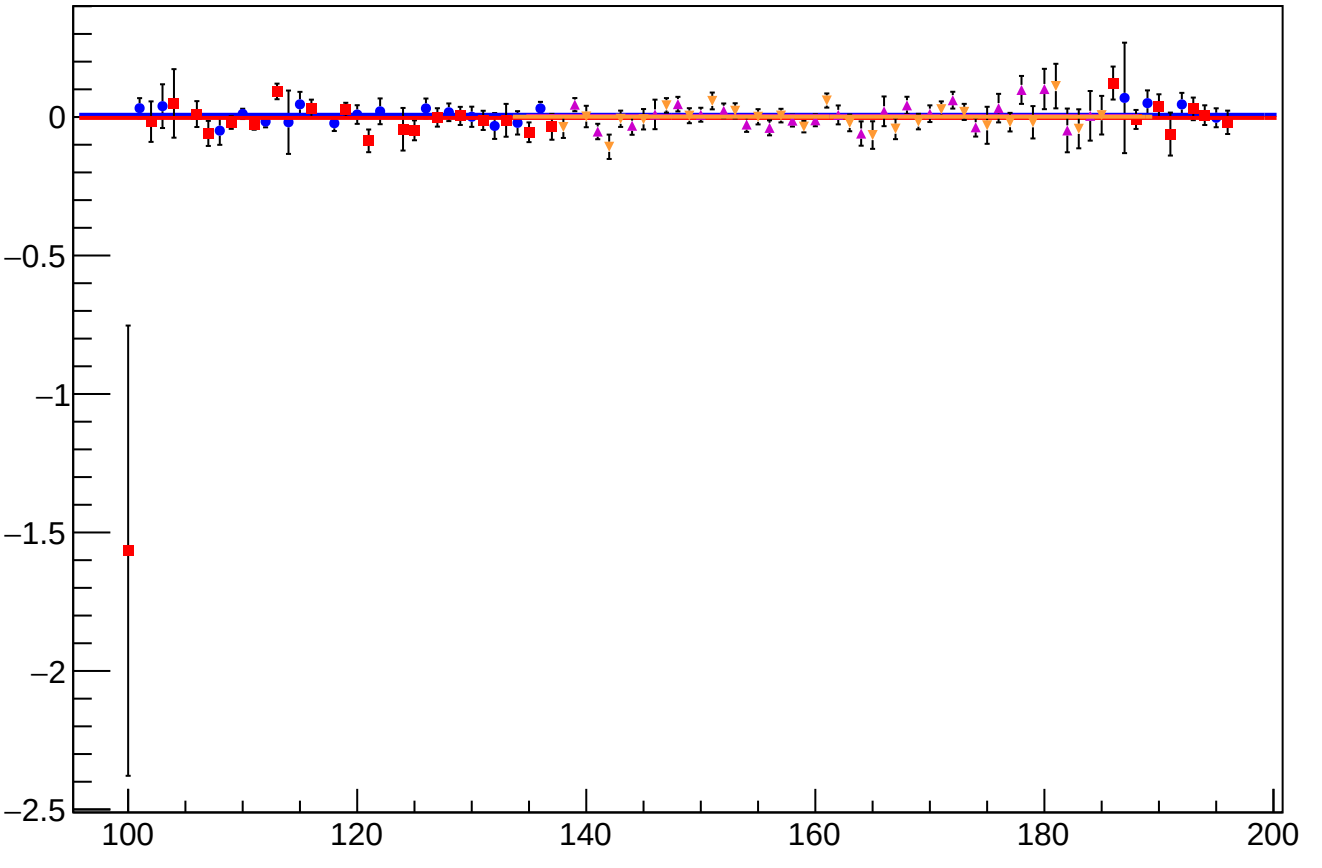
Left: 26.602+/-0.003 $\chi^2$/NDF: 5040932.0/47

Right: 22.108+/-0.004 $\chi^2$/NDF: 5430306.8/45

In: 24.366+/-0.004 $\chi^2$/NDF:5563064.1/42

Out: 24.906+/-0.003 $\chi^2$/NDF:5716416.5/50

All: 24.646+/-0.002 $\chi^2$/NDF: 11291493.7/93




Right In: 0.008+/-0.008 $\chi^2$/NDF: 9.8/19

Left Out: 0.001+/-0.006 $\chi^2$/NDF:30.3/24

Right Out: -0.003+/-0.007 $\chi^2$/NDF: 37.0/25

Left In: 0.004+/-0.007 $\chi^2$/NDF:31.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 61.5/47

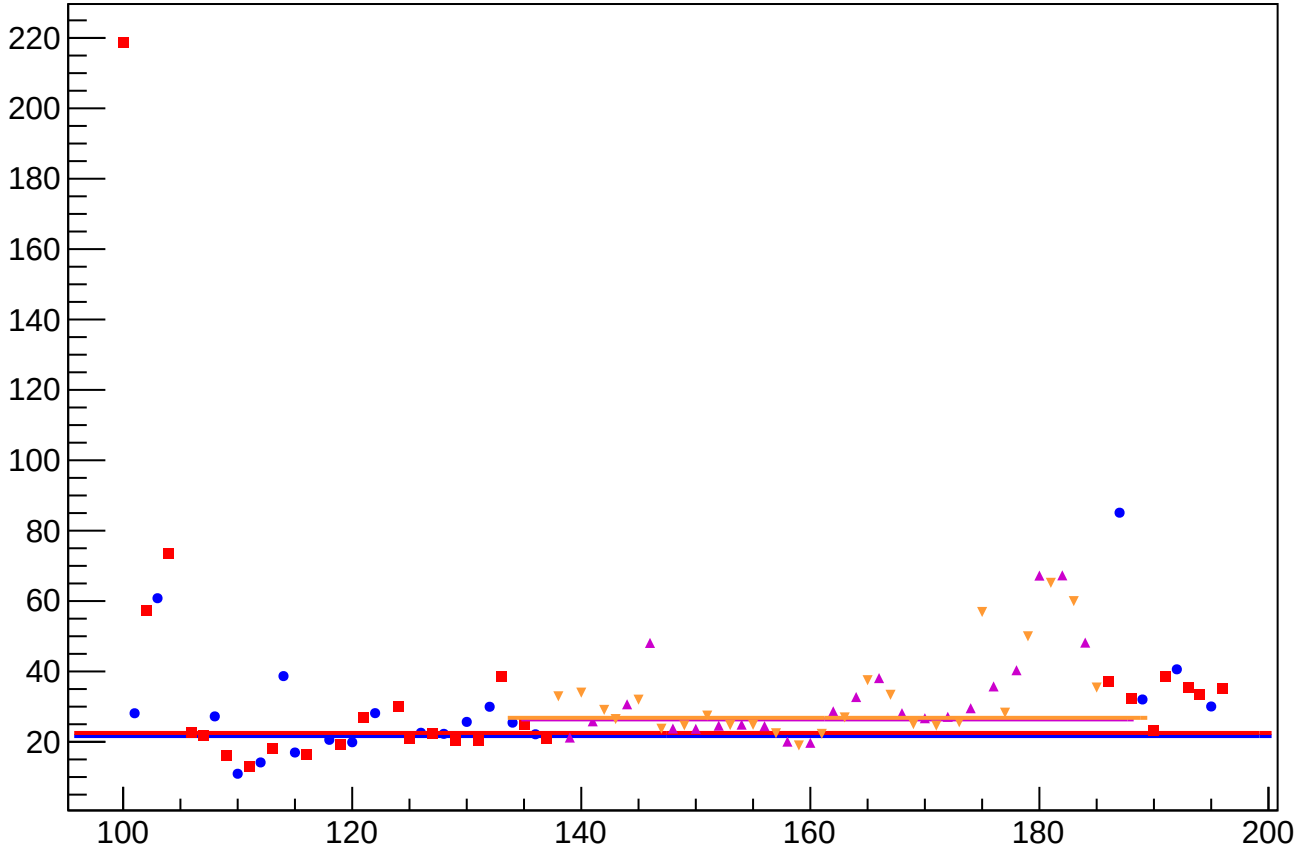
Right: 0.002+/-0.005 $\chi^2$/NDF: 47.9/45

In: 0.006+/-0.005 $\chi^2$/NDF:41.1/42

Out: -0.001+/-0.005 $\chi^2$/NDF:67.4/50

All: 0.002+/-0.003 $\chi^2$/NDF: 109.4/93

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.640+/-0.005 $\chi^2$/NDF: 2559861.6/19

Left Out: 26.820+/-0.005 $\chi^2$/NDF:2469855.0/24

Right Out: 22.523+/-0.005 $\chi^2$/NDF: 2856459.6/25

Left In: 26.376+/-0.005 $\chi^2$/NDF:2566477.5/22

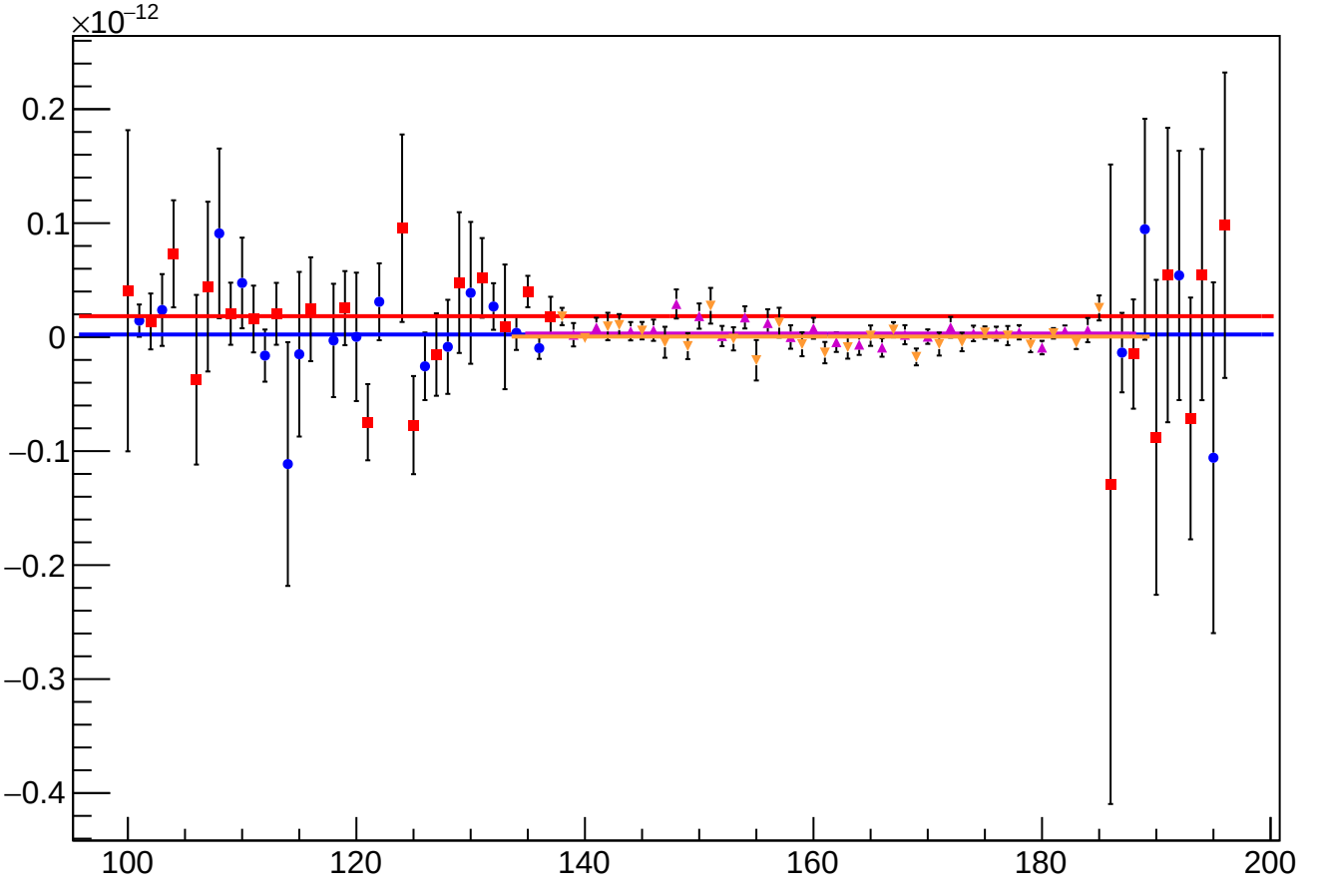
Left: 26.602+/-0.003 $\chi^2$/NDF: 5040932.0/47

Right: 22.108+/-0.004 $\chi^2$/NDF: 5430306.8/45

In: 24.366+/-0.004 $\chi^2$/NDF:5563064.1/42

Out: 24.906+/-0.003 $\chi^2$/NDF:5716416.5/50

All: 24.646+/-0.002 $\chi^2$/NDF: 11291493.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 12.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:32.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 22.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.1/22

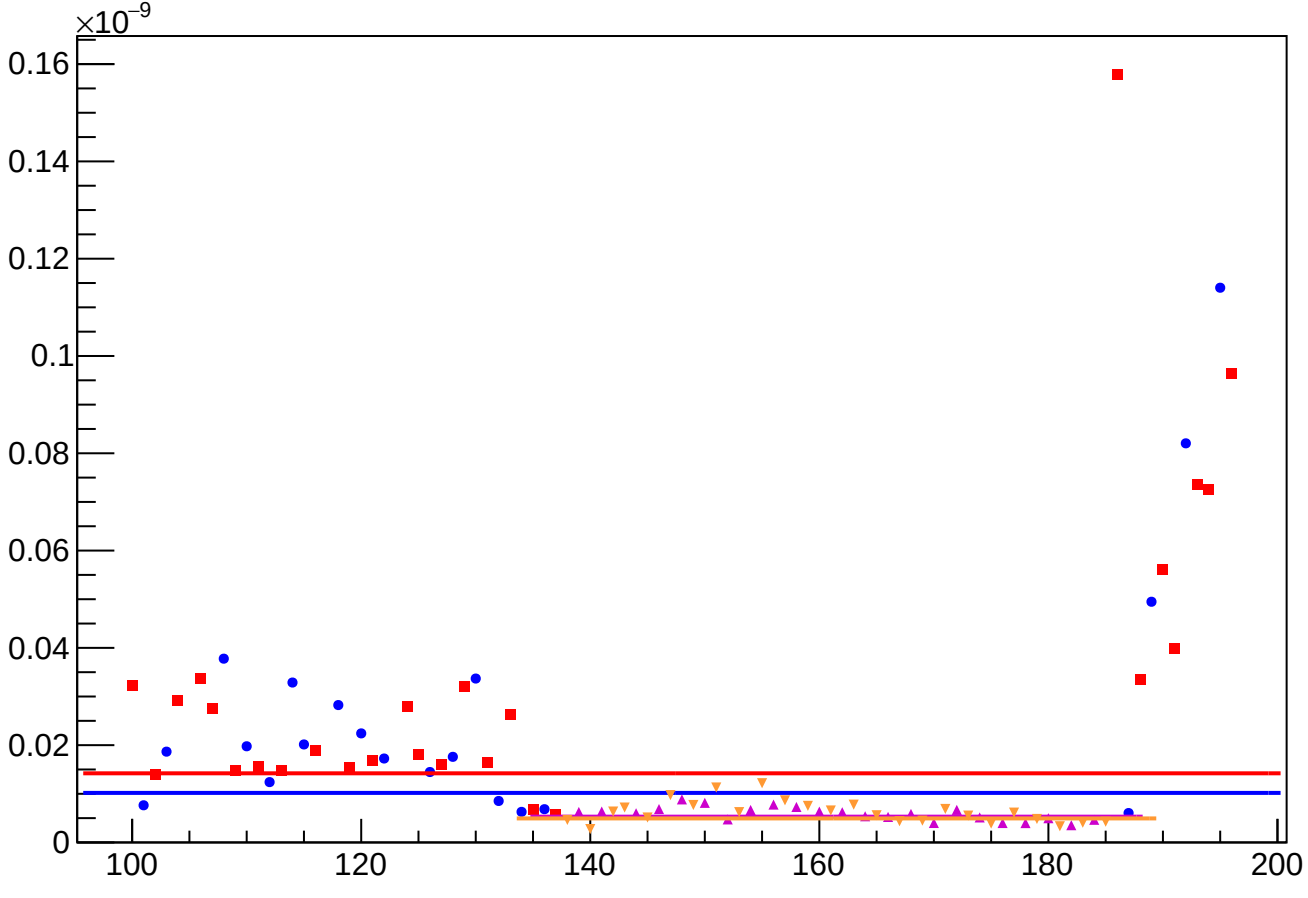
Left: 0.000+/-0.000 $\chi^2$/NDF: 53.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:31.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:61.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 94.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4116834.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2747591.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4936442.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1247237.9/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 4044909.4/47

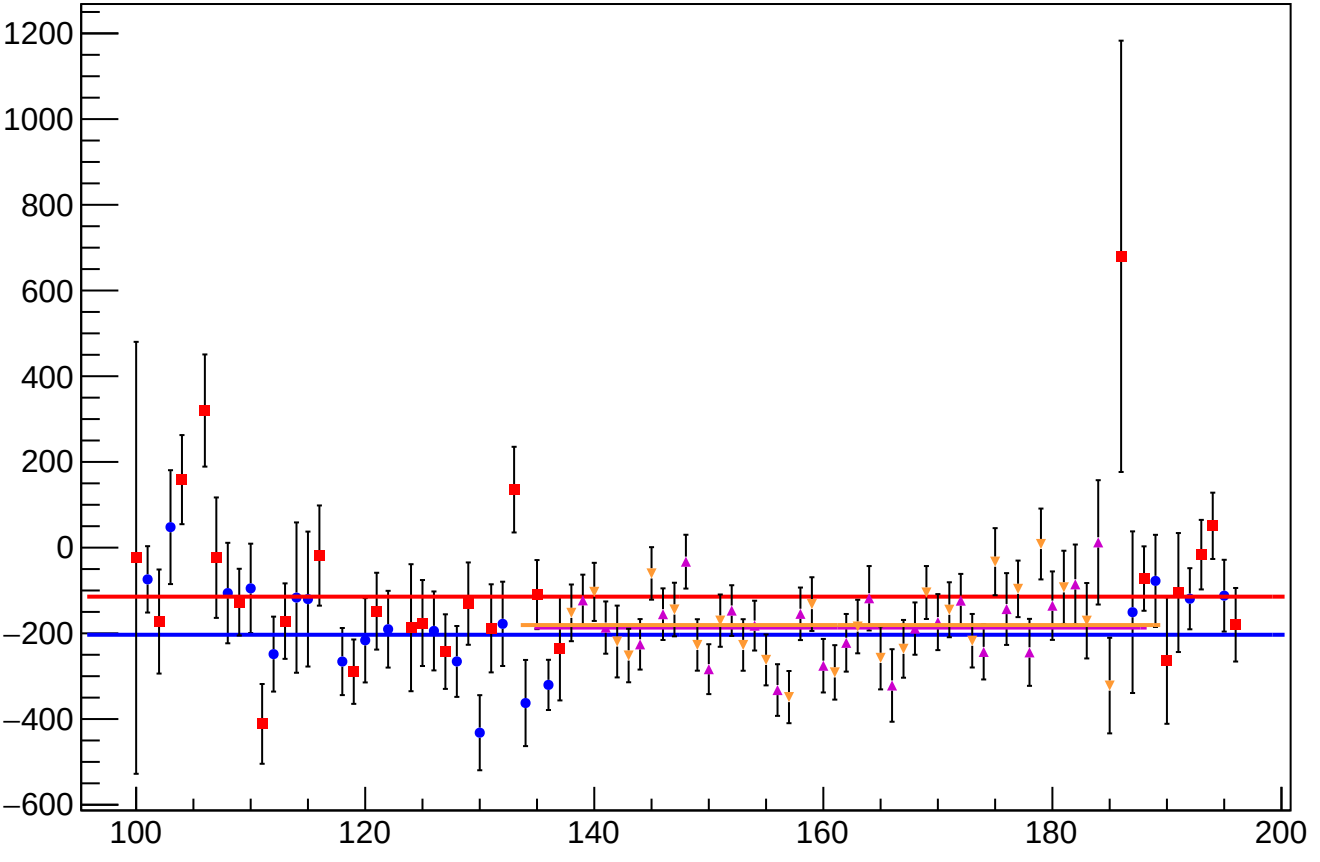
Right: 0.000+/-0.000 $\chi^2$/NDF: 9461115.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:6753546.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11096488.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 17888389.6/93

# reg_asym_sam8_mean vs Slug, Sign Corrected




Right In: -203.316+/-20.740 $\chi^2$/NDF: 27.6/19

Left Out: -180.685+/-13.419 $\chi^2$/NDF:38.6/24

Right Out: -114.392+/-19.639 $\chi^2$/NDF: 56.5/25

Left In: -186.567+/-13.860 $\chi^2$/NDF:29.0/22

Left: -183.531+/-9.641 $\chi^2$/NDF: 67.7/47

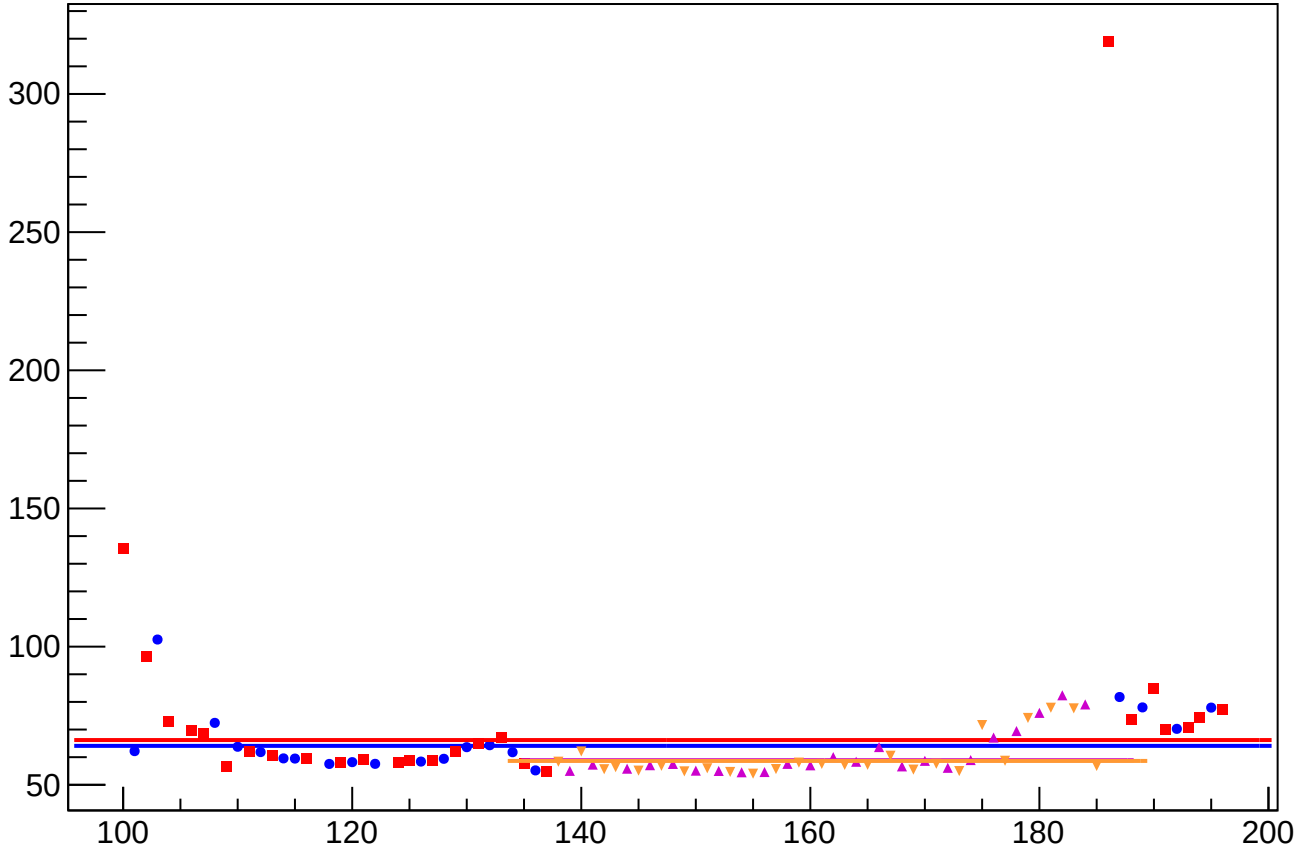
Right: -156.432+/-14.261 $\chi^2$/NDF: 93.7/45

In: -191.737+/-11.524 $\chi^2$/NDF:57.0/42

Out: -159.587+/-11.079 $\chi^2$/NDF:102.8/50

All: -175.031+/-7.987 $\chi^2$/NDF: 163.9/93

# reg_asym_sam8_rms vs Slug, Sign Corrected




Right In: 64.096+/-0.015 $\chi^2$/NDF: 396716.6/19

Left Out: 58.644+/-0.009 $\chi^2$/NDF:393880.8/24

Right Out: 66.199+/-0.014 $\chi^2$/NDF: 951530.0/25

Left In: 58.906+/-0.010 $\chi^2$/NDF:386820.4/22

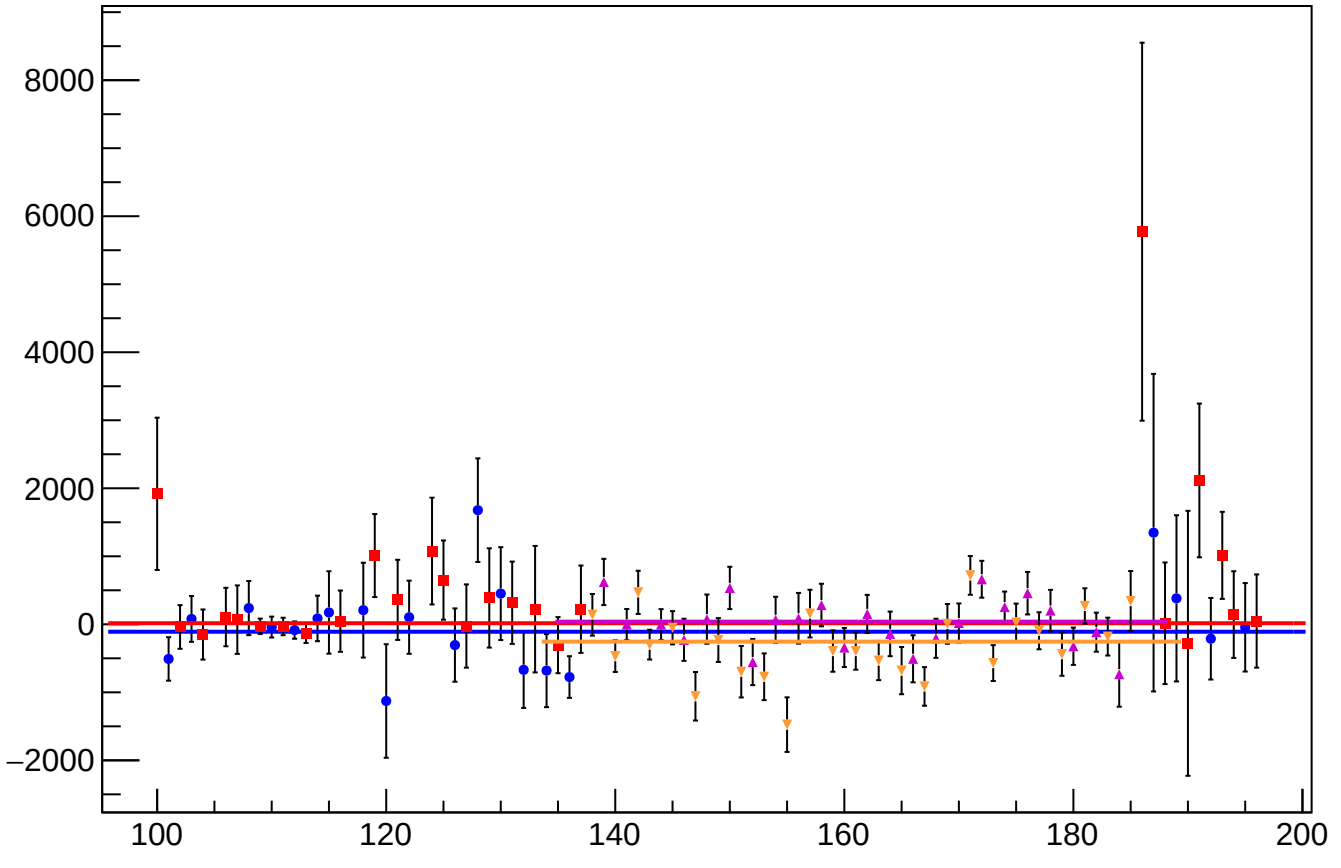
Left: 58.771+/-0.007 $\chi^2$/NDF: 781070.9/47

Right: 65.204+/-0.010 $\chi^2$/NDF: 1359086.5/45

In: 60.508+/-0.008 $\chi^2$/NDF:870097.2/42

Out: 61.048+/-0.008 $\chi^2$/NDF:1547166.1/50

All: 60.789+/-0.006 $\chi^2$/NDF: 2419545.3/93




Right In: -109.188+/-74.919 $\chi^2$/NDF: 19.0/19

Left Out: -254.628+/-58.877 $\chi^2$/NDF:57.6/24

Right Out: 16.063+/-62.731 $\chi^2$/NDF: 22.0/25

Left In: 39.147+/-61.883 $\chi^2$/NDF:28.3/22

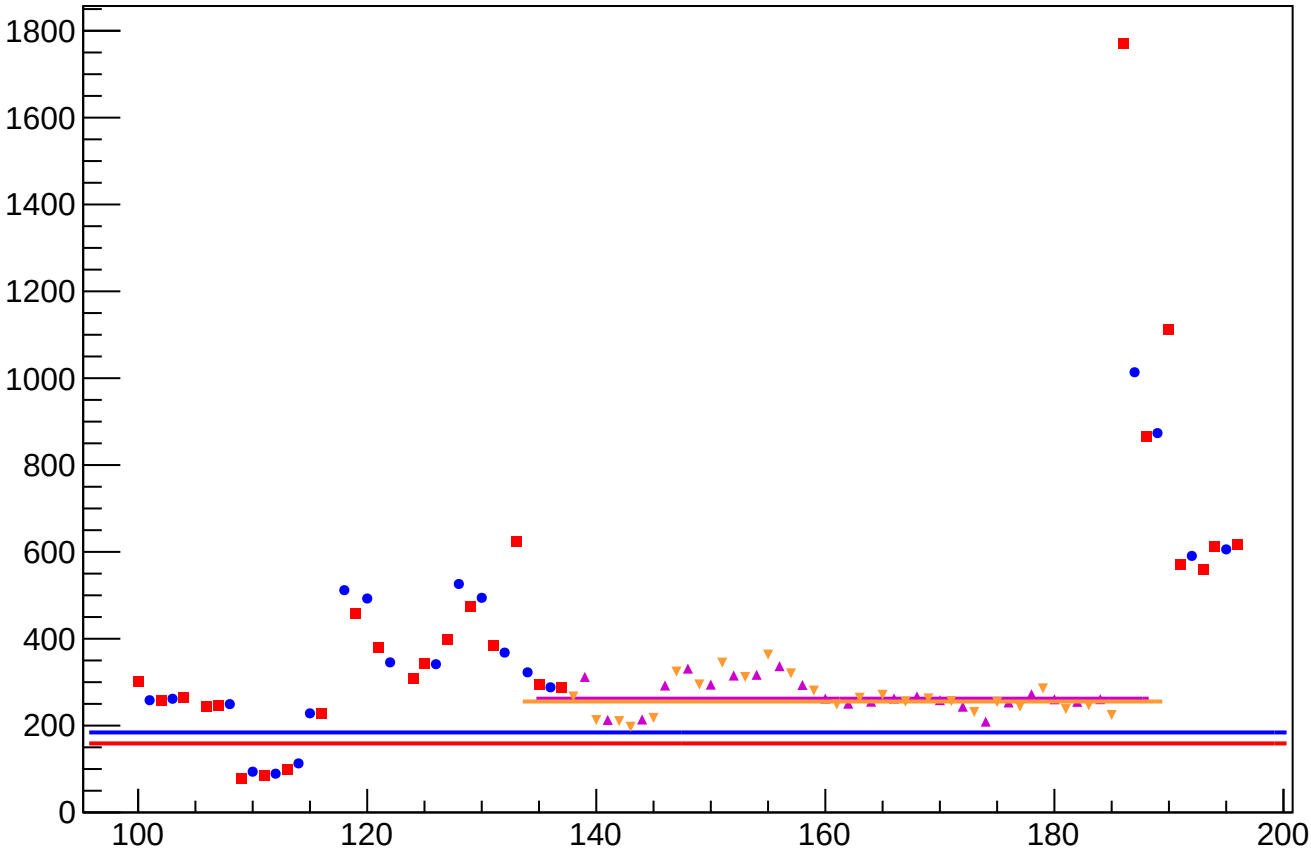
Left: -115.050+/-42.655 $\chi^2$/NDF: 97.8/47

Right: -35.559+/-48.097 $\chi^2$/NDF: 42.7/45

In: -21.013+/-47.712 $\chi^2$/NDF:49.7/42

Out: -127.854+/-42.930 $\chi^2$/NDF:89.5/50

All: -80.054+/-31.913 $\chi^2$/NDF: 142.0/93




Right In: 184.242+/-0.053 $\chi^2$/NDF: 7278511.9/19

Left Out: 255.469+/-0.042 $\chi^2$/NDF:863866.8/24

Right Out: 158.960+/-0.044 $\chi^2$/NDF: 10697784.4/25

Left In: 262.007+/-0.044 $\chi^2$/NDF:670576.2/22

Left: 258.576+/-0.030 $\chi^2$/NDF: 1546159.8/47

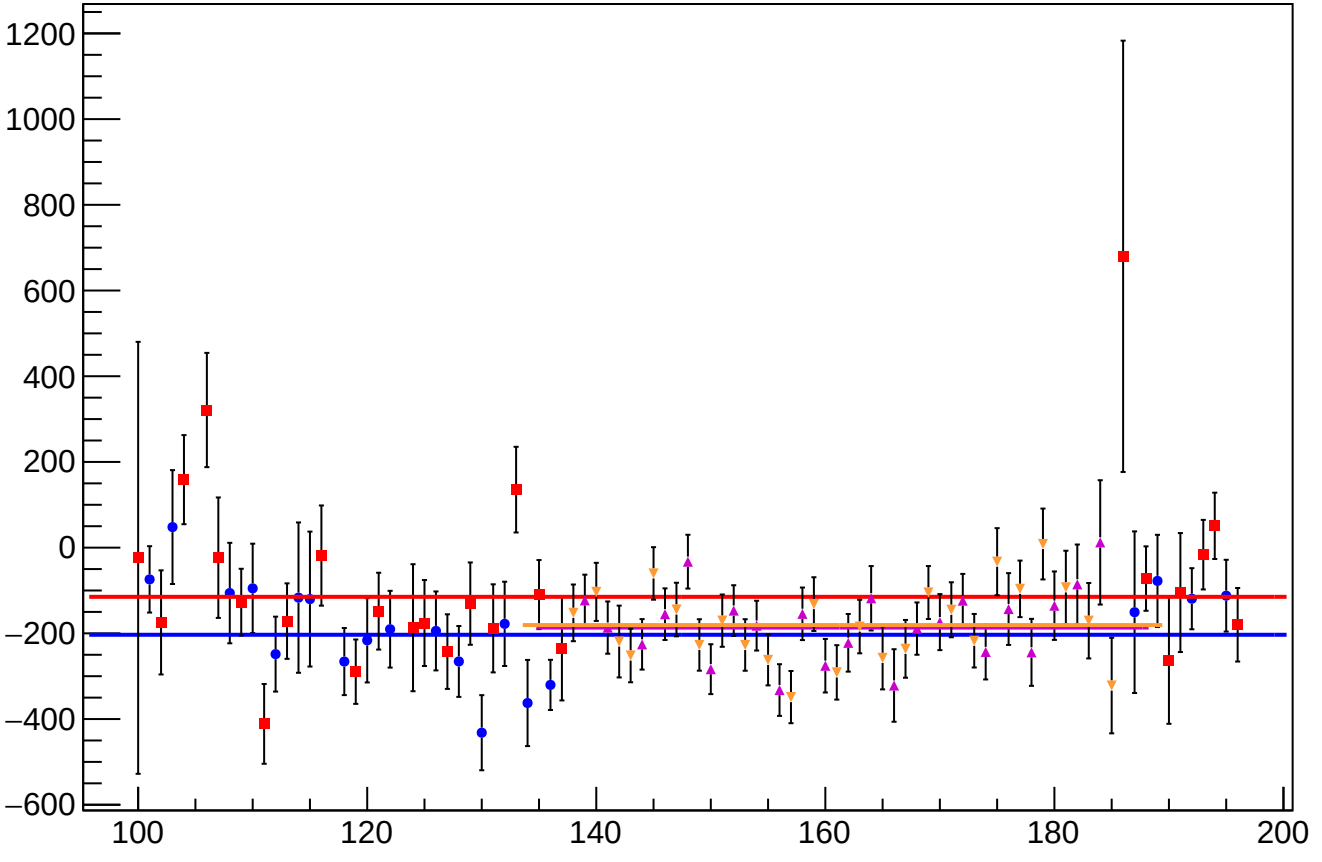
Right: 169.380+/-0.034 $\chi^2$/NDF: 18110187.7/45

In: 230.469+/-0.034 $\chi^2$/NDF:9229987.4/42

Out: 210.271+/-0.030 $\chi^2$/NDF:14078410.4/50

All: 219.307+/-0.023 $\chi^2$/NDF: 23506463.1/93

# cor_asym_sam8_mean vs Slug, Sign Corrected




Right In: -203.315+/-20.740 $\chi^2$/NDF: 27.6/19

Left Out: -180.680+/-13.419 $\chi^2$/NDF:38.6/24

Right Out: -114.771+/-19.648 $\chi^2$/NDF: 56.1/25

Left In: -186.567+/-13.860 $\chi^2$/NDF:29.0/22

Left: -183.529+/-9.641 $\chi^2$/NDF: 67.7/47

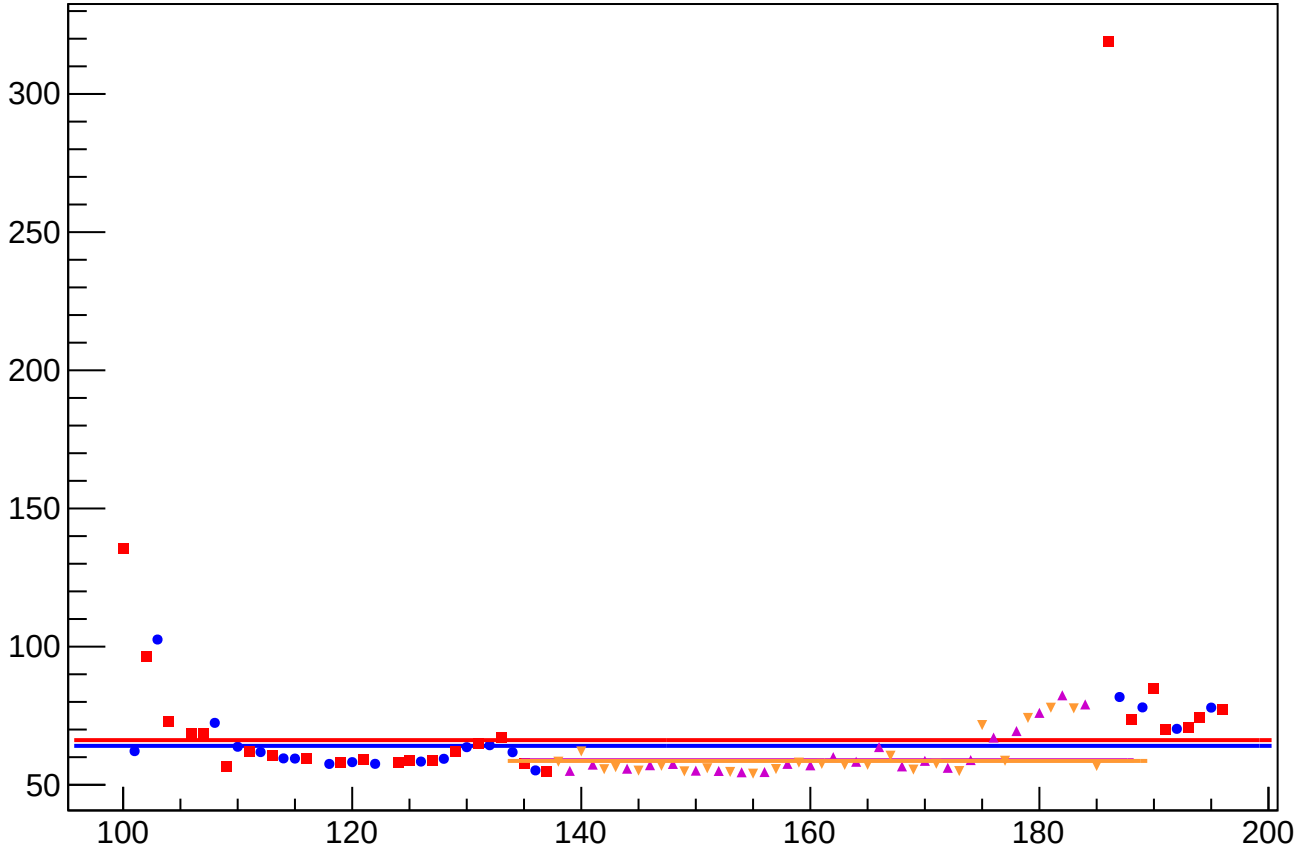
Right: -156.649+/-14.264 $\chi^2$/NDF: 93.3/45

In: -191.737+/-11.524 $\chi^2$/NDF:57.0/42

Out: -159.716+/-11.081 $\chi^2$/NDF:102.4/50

All: -175.100+/-7.987 $\chi^2$/NDF: 163.4/93

# cor_asym_sam8_rms vs Slug, Sign Corrected




Right In: 64.096+/-0.015 $\chi^2$/NDF: 396719.1/19

Left Out: 58.644+/-0.009 $\chi^2$/NDF:393880.8/24

Right Out: 66.171+/-0.014 $\chi^2$/NDF: 950924.9/25

Left In: 58.906+/-0.010 $\chi^2$/NDF:386820.4/22

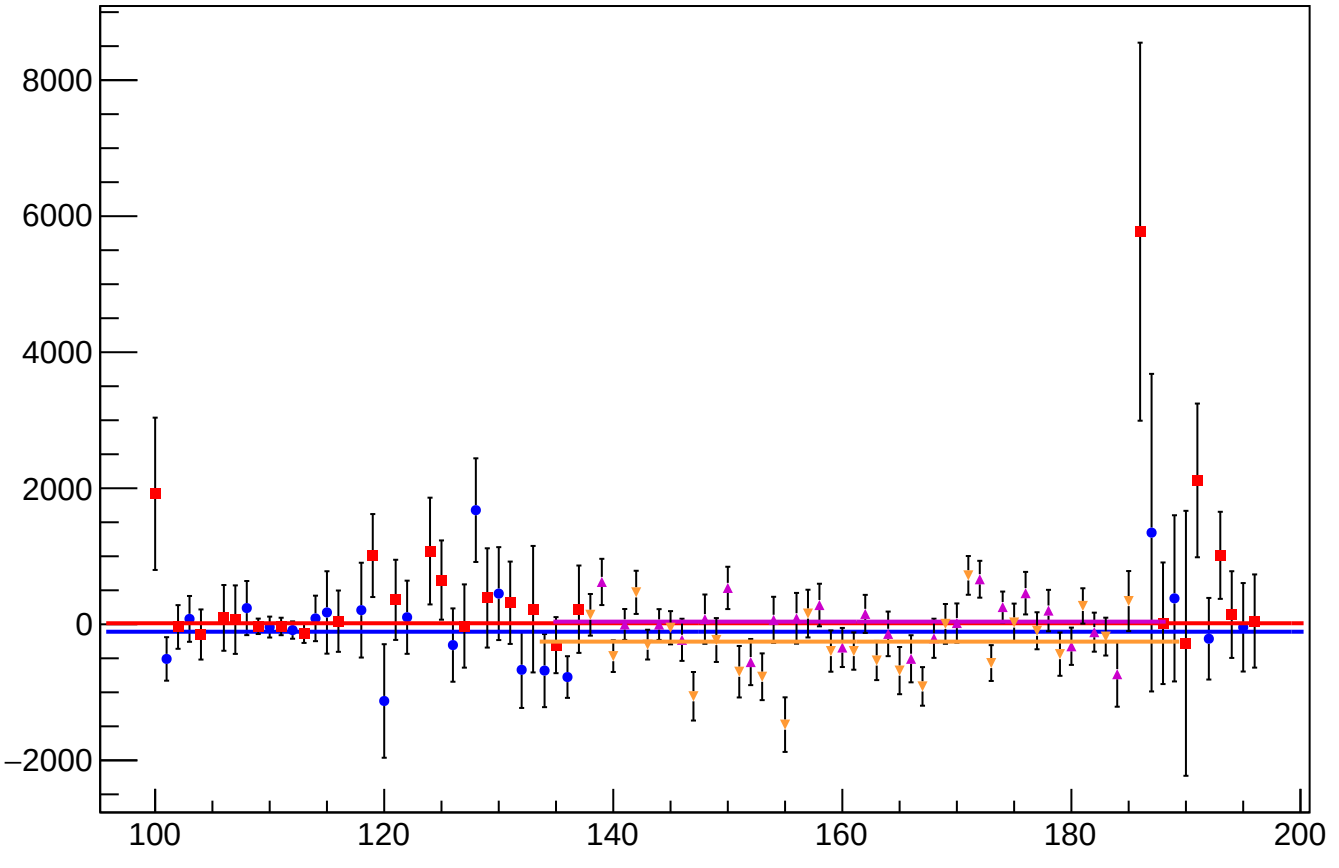
Left: 58.771+/-0.007 $\chi^2$/NDF: 781071.0/47

Right: 65.189+/-0.010 $\chi^2$/NDF: 1358195.1/45

In: 60.508+/-0.008 $\chi^2$/NDF:870099.7/42

Out: 61.038+/-0.008 $\chi^2$/NDF:1544966.2/50

All: 60.783+/-0.006 $\chi^2$/NDF: 2417262.4/93




Right In: -109.170+/-74.920 $\chi^2$/NDF: 19.1/19

Left Out: -254.625+/-58.877 $\chi^2$/NDF:57.6/24

Right Out: 15.463+/-62.875 $\chi^2$/NDF: 22.0/25

Left In: 39.144+/-61.883 $\chi^2$/NDF:28.3/22

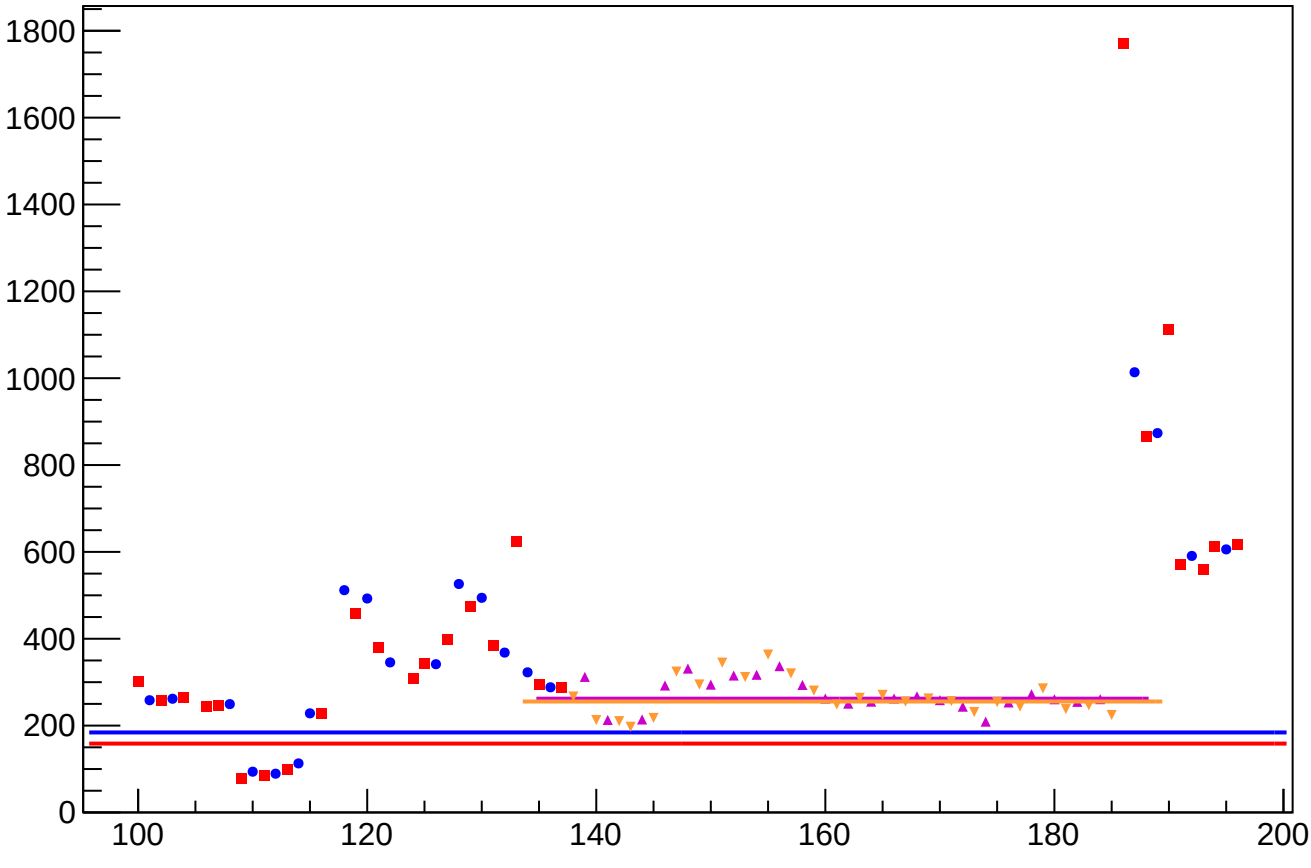
Left: -115.050+/-42.655 $\chi^2$/NDF: 97.8/47

Right: -36.042+/-48.162 $\chi^2$/NDF: 42.6/45

In: -21.007+/-47.712 $\chi^2$/NDF:49.7/42

Out: -128.441+/-42.976 $\chi^2$/NDF:89.4/50

All: -80.319+/-31.932 $\chi^2$/NDF: 142.0/93




Right In: 184.243+/-0.053 $\chi^2$/NDF: 7278561.6/19

Left Out: 255.469+/-0.042 $\chi^2$/NDF:863867.3/24

Right Out: 158.578+/-0.044 $\chi^2$/NDF: 10682033.8/25

Left In: 262.007+/-0.044 $\chi^2$/NDF:670574.8/22

Left: 258.576+/-0.030 $\chi^2$/NDF: 1546159.5/47

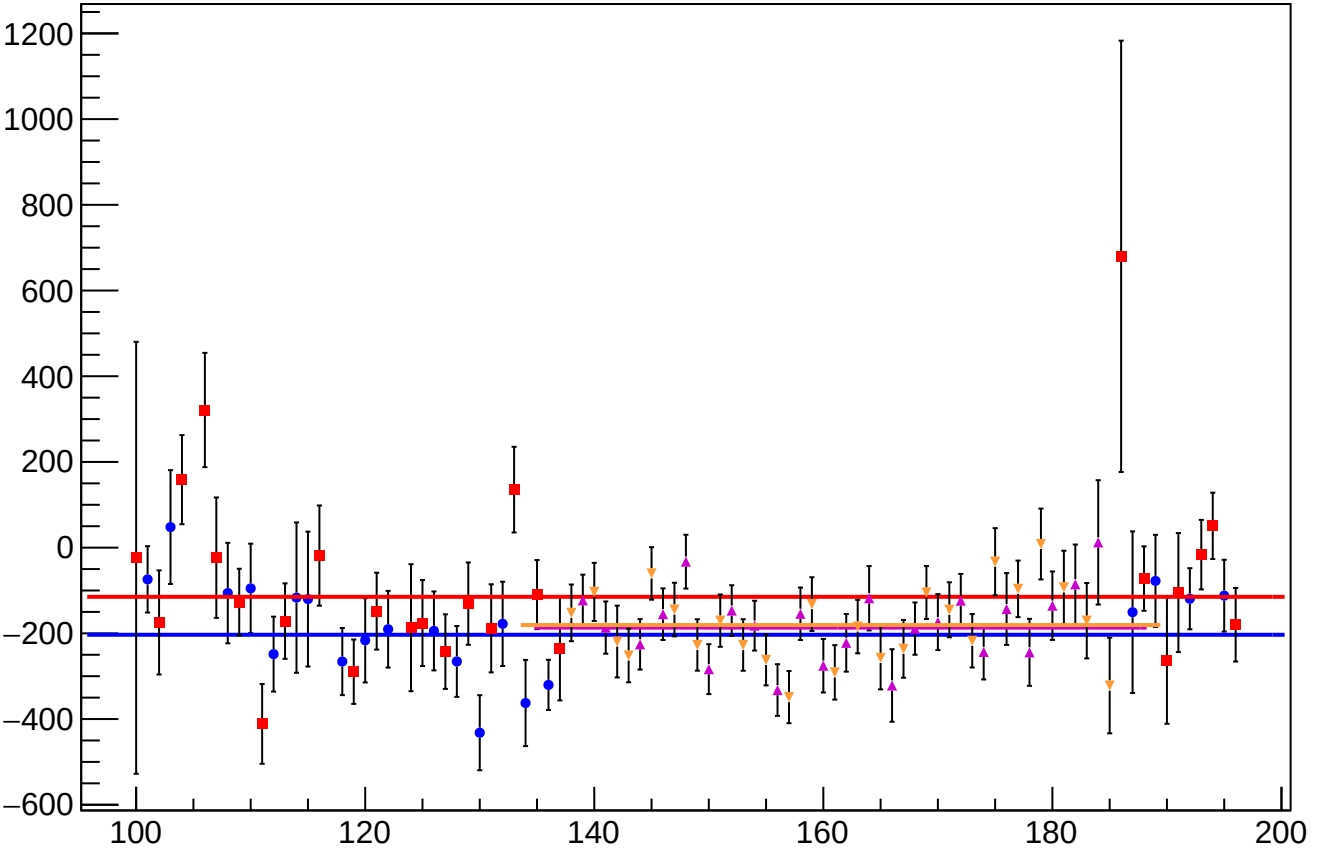
Right: 169.184+/-0.034 $\chi^2$/NDF: 18098303.3/45

In: 230.469+/-0.034 $\chi^2$/NDF:9230014.2/42

Out: 210.202+/-0.030 $\chi^2$/NDF:14076428.1/50

All: 219.280+/-0.023 $\chi^2$/NDF: 23505667.2/93

# eigen_cor_asym_sam8_mean vs Slug, Sign Corrected




Right In: -203.315+/-20.740 $\chi^2$/NDF: 27.6/19

Left Out: -180.680+/-13.419 $\chi^2$/NDF:38.6/24

Right Out: -114.771+/-19.648 $\chi^2$/NDF: 56.1/25

Left In: -186.567+/-13.860 $\chi^2$/NDF:29.0/22

Left: -183.529+/-9.641 $\chi^2$/NDF: 67.7/47

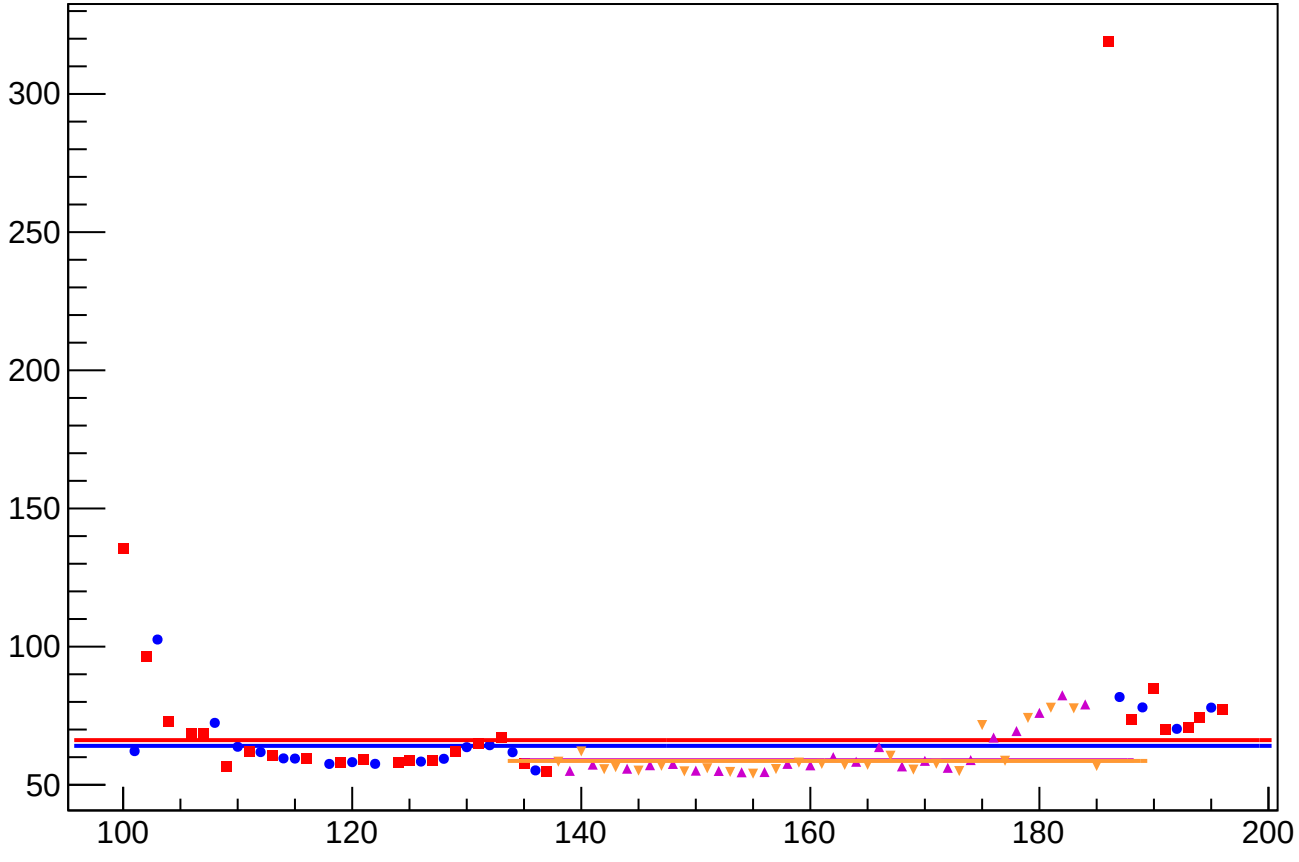
Right: -156.649+/-14.264 $\chi^2$/NDF: 93.3/45

In: -191.737+/-11.524 $\chi^2$/NDF:57.0/42

Out: -159.716+/-11.081 $\chi^2$/NDF:102.4/50

All: -175.100+/-7.987 $\chi^2$/NDF: 163.4/93

# eigen_cor_asym_sam8_rms vs Slug, Sign Corrected




Right In: 64.096+/-0.015 $\chi^2$/NDF: 396719.1/19

Left Out: 58.644+/-0.009 $\chi^2$/NDF:393880.8/24

Right Out: 66.171+/-0.014 $\chi^2$/NDF: 950924.9/25

Left In: 58.906+/-0.010 $\chi^2$/NDF:386820.4/22

Left: 58.771+/-0.007 $\chi^2$/NDF: 781071.0/47

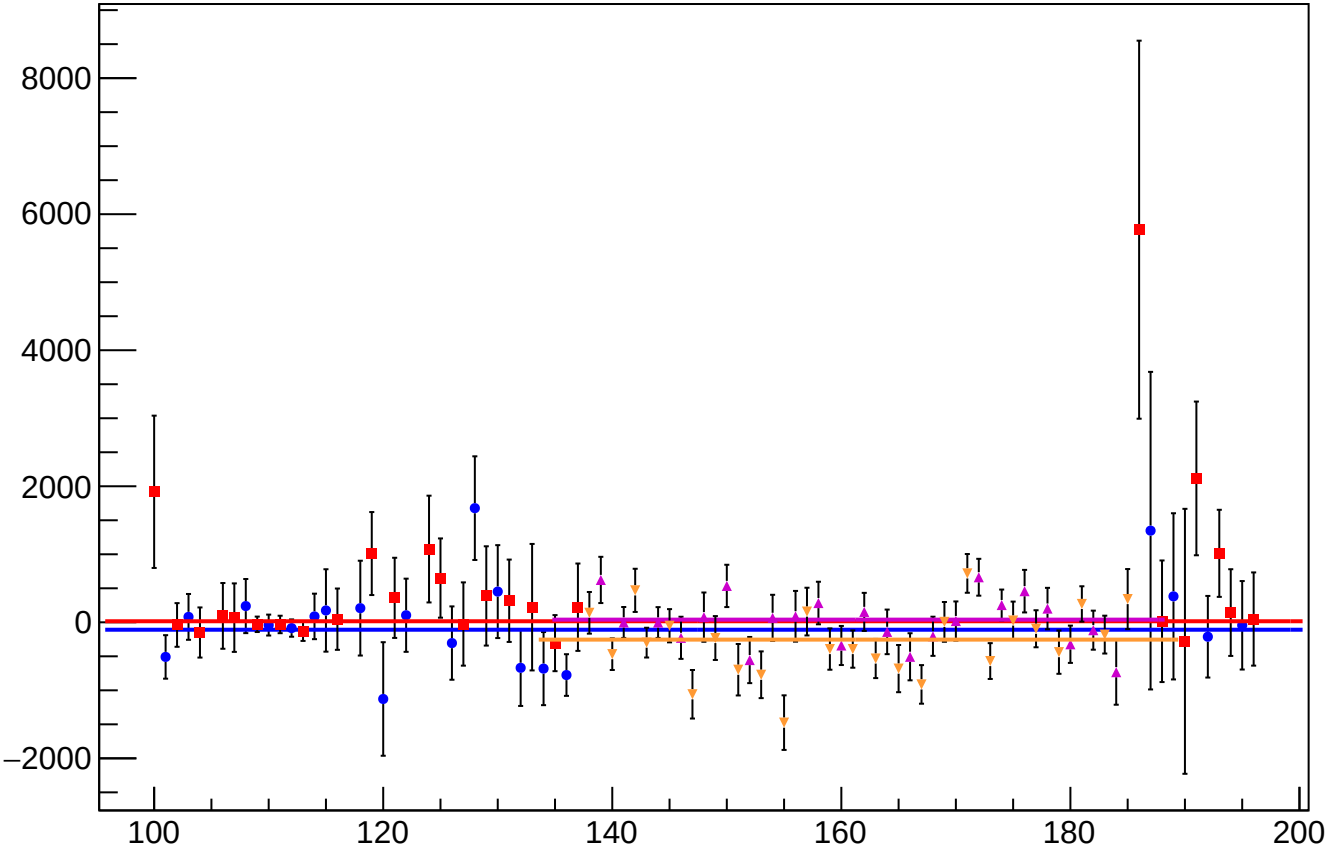
Right: 65.189+/-0.010 $\chi^2$/NDF: 1358195.1/45

In: 60.508+/-0.008 $\chi^2$/NDF:870099.7/42

Out: 61.038+/-0.008 $\chi^2$/NDF:1544966.2/50

All: 60.783+/-0.006 $\chi^2$/NDF: 2417262.4/93

asym_sam8_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -109.170+/-74.920 $\chi^2$/NDF: 19.1/19

Left Out: -254.625+/-58.877 $\chi^2$/NDF:57.6/24

Right Out: 15.463+/-62.875 $\chi^2$/NDF: 22.0/25

Left In: 39.144+/-61.883 $\chi^2$/NDF:28.3/22

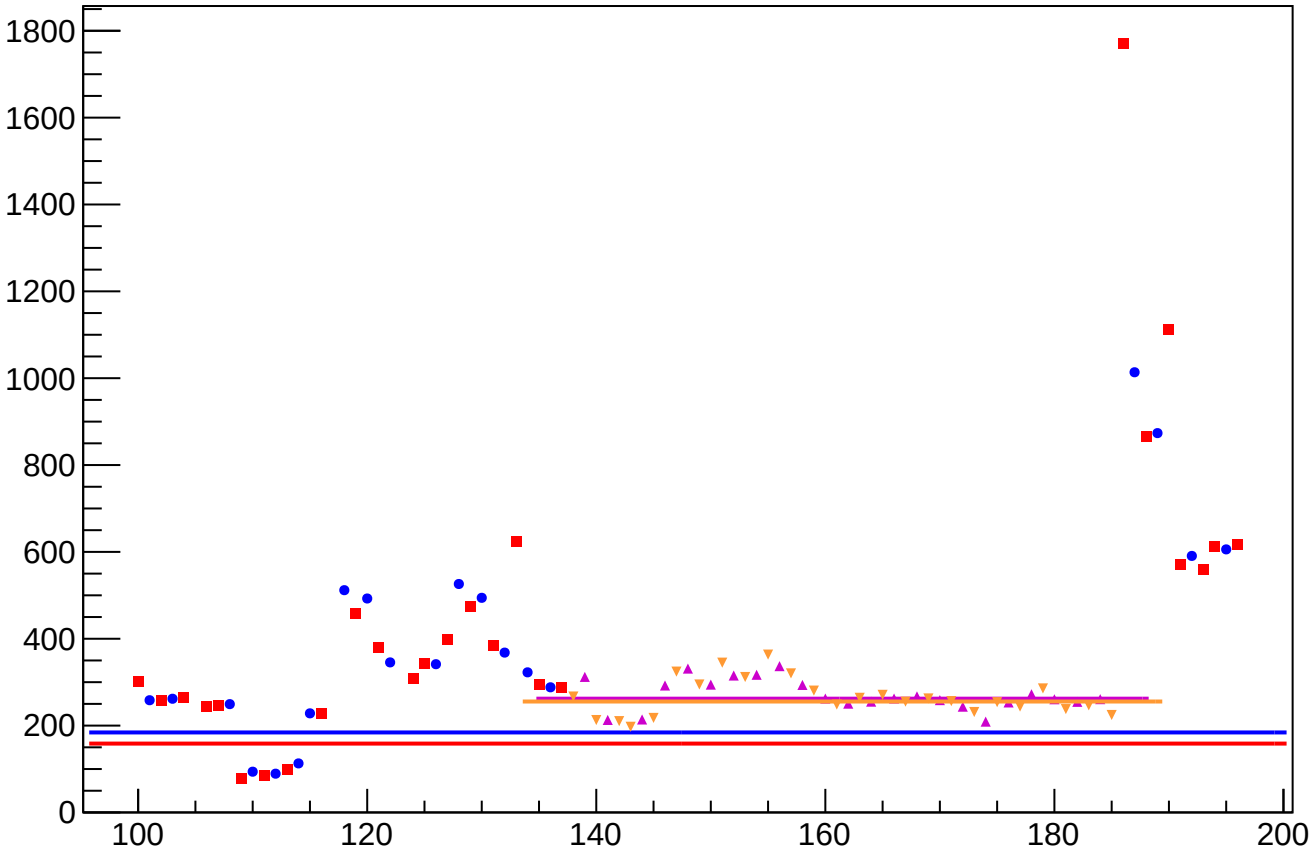
Left: -115.050+/-42.655 $\chi^2$/NDF: 97.8/47

Right: -36.042+/-48.162 $\chi^2$/NDF: 42.6/45

In: -21.007+/-47.712 $\chi^2$/NDF:49.7/42

Out: -128.441+/-42.976 $\chi^2$/NDF:89.4/50

All: -80.319+/-31.932 $\chi^2$/NDF: 142.0/93




Right In: 184.243+/-0.053 $\chi^2$/NDF: 7278561.6/19

Left Out: 255.469+/-0.042 $\chi^2$/NDF:863867.3/24

Right Out: 158.578+/-0.044 $\chi^2$/NDF: 10682033.8/25

Left In: 262.007+/-0.044 $\chi^2$/NDF:670574.8/22

Left: 258.576+/-0.030 $\chi^2$/NDF: 1546159.5/47

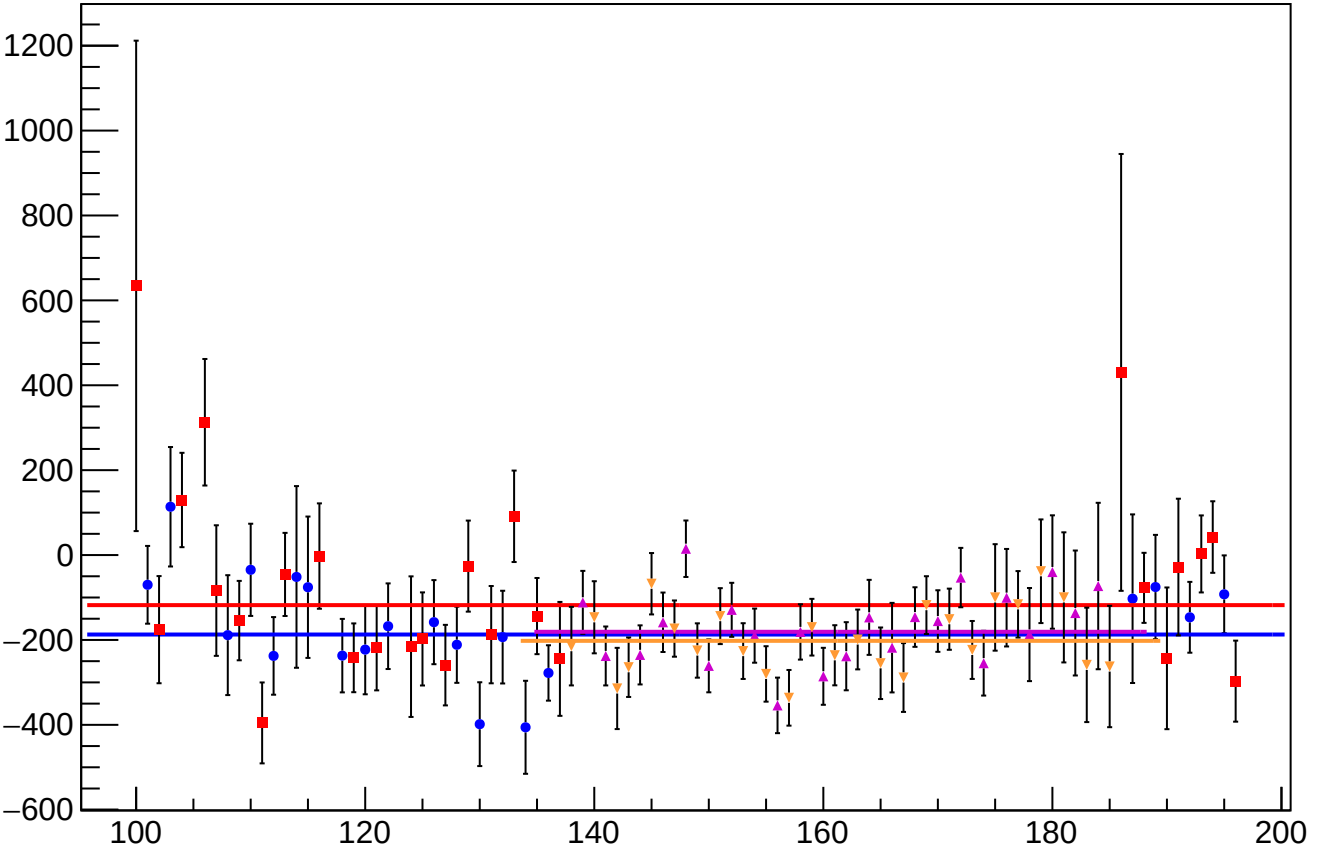
Right: 169.184+/-0.034 $\chi^2$/NDF: 18098303.3/45

In: 230.469+/-0.034 $\chi^2$/NDF:9230014.2/42

Out: 210.202+/-0.030 $\chi^2$/NDF:14076428.1/50

All: 219.280+/-0.023 $\chi^2$/NDF: 23505667.2/93

# dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -187.209+/-23.006 $\chi^2$/NDF: 22.8/19

Left Out: -202.090+/-15.538 $\chi^2$/NDF:21.5/24

Right Out: -117.955+/-21.632 $\chi^2$/NDF: 48.8/25

Left In: -180.784+/-16.019 $\chi^2$/NDF:30.1/22

Left: -191.762+/-11.153 $\chi^2$/NDF: 52.6/47

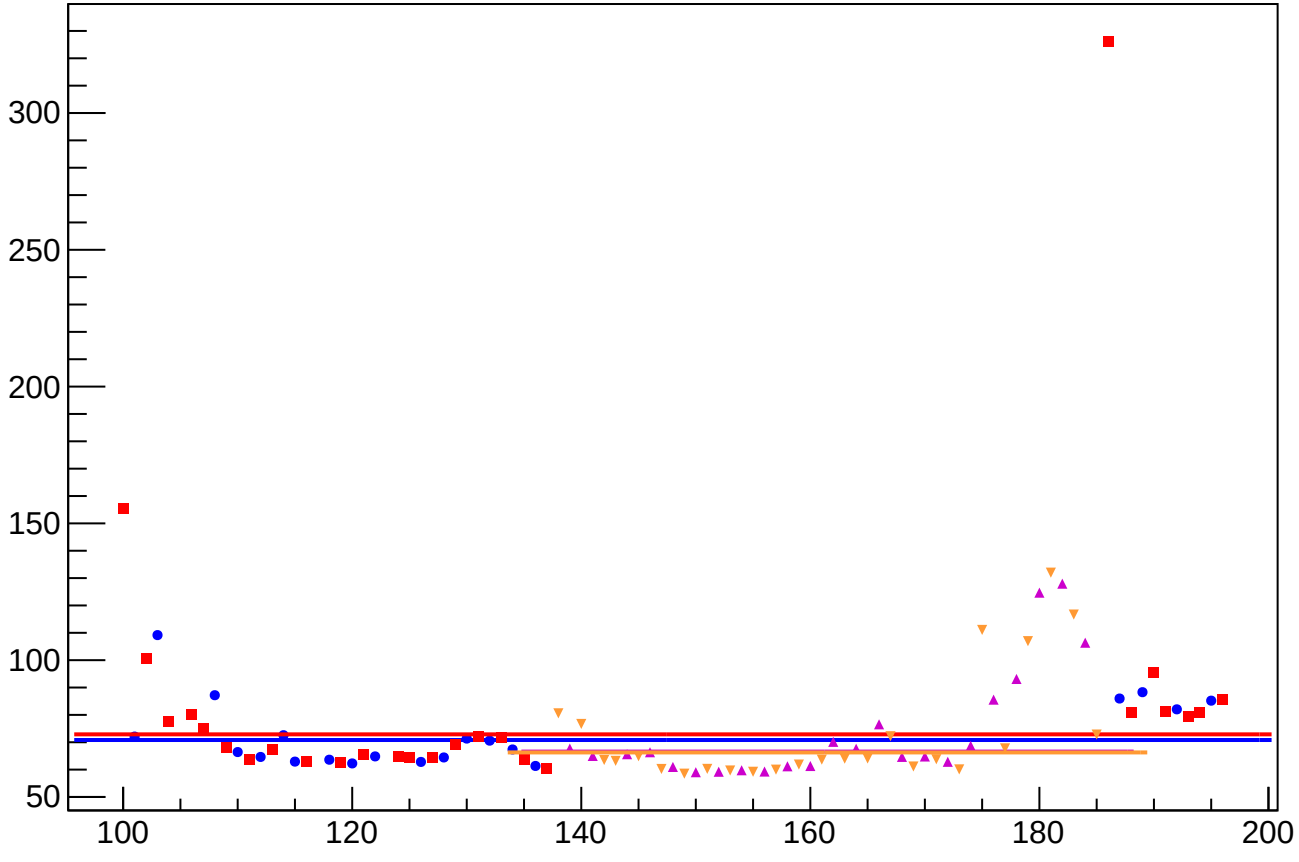
Right: -150.452+/-15.760 $\chi^2$/NDF: 76.4/45

In: -182.882+/-13.146 $\chi^2$/NDF:53.0/42

Out: -173.456+/-12.620 $\chi^2$/NDF:80.3/50

All: -177.976+/-9.104 $\chi^2$/NDF: 133.5/93

# dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 70.817+/-0.016 $\chi^2$/NDF: 432007.5/19

Left Out: 66.279+/-0.011 $\chi^2$/NDF:1393879.2/24

Right Out: 72.885+/-0.015 $\chi^2$/NDF: 912574.0/25

Left In: 66.585+/-0.011 $\chi^2$/NDF:1158238.0/22

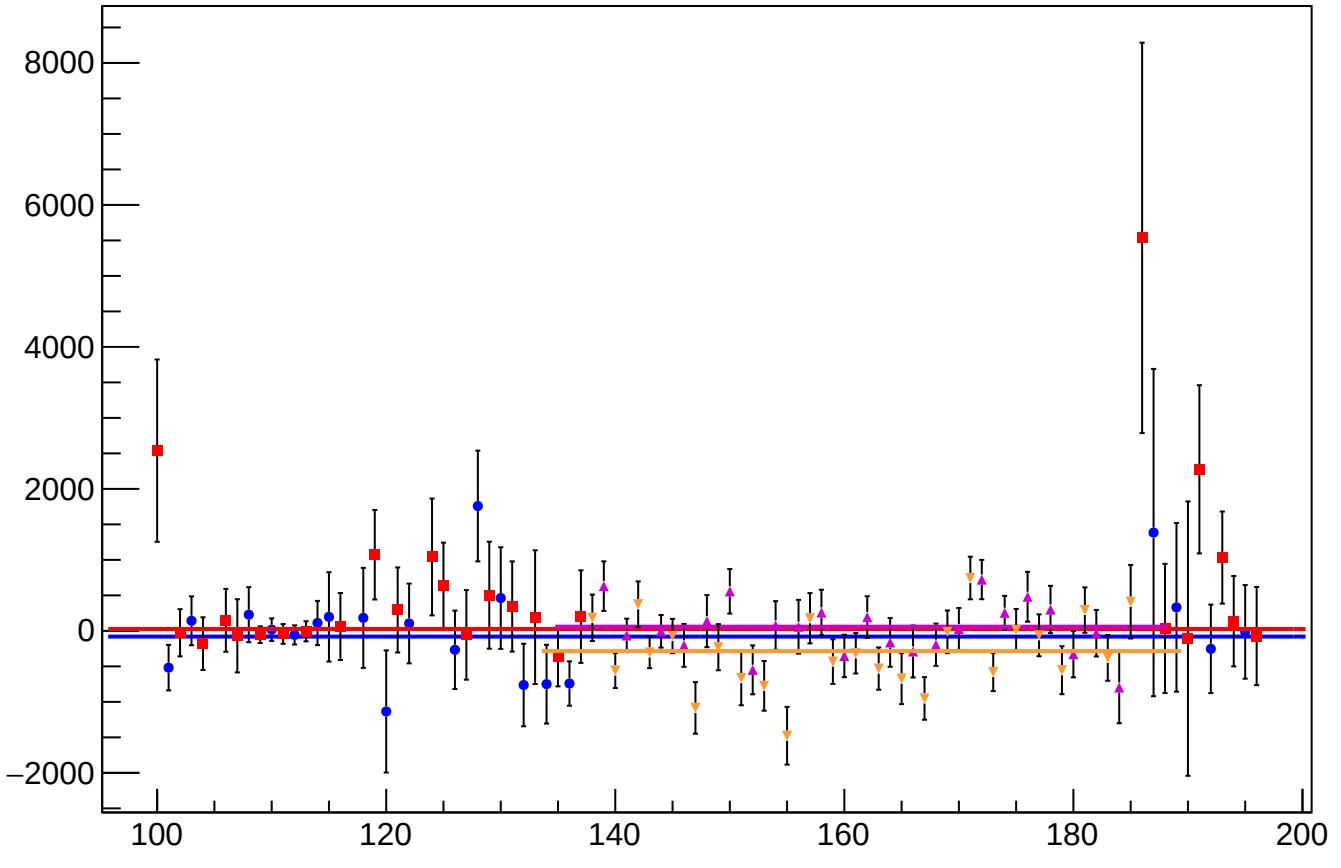
Left: 66.427+/-0.008 $\chi^2$/NDF: 2552494.2/47

Right: 71.915+/-0.011 $\chi^2$/NDF: 1353165.0/45

In: 67.967+/-0.009 $\chi^2$/NDF:1635810.3/42

Out: 68.527+/-0.009 $\chi^2$/NDF:2429509.6/50

All: 68.259+/-0.006 $\chi^2$/NDF: 4067211.8/93




Right In: -80.525+/-77.307 $\chi^2$/NDF: 19.8/19

Left Out: -284.450+/-61.727 $\chi^2$/NDF:54.6/24

Right Out: 26.729+/-64.623 $\chi^2$/NDF: 22.2/25

Left In: 59.160+/-64.636 $\chi^2$/NDF:26.8/22

Left: -120.551+/-44.641 $\chi^2$/NDF: 96.2/47

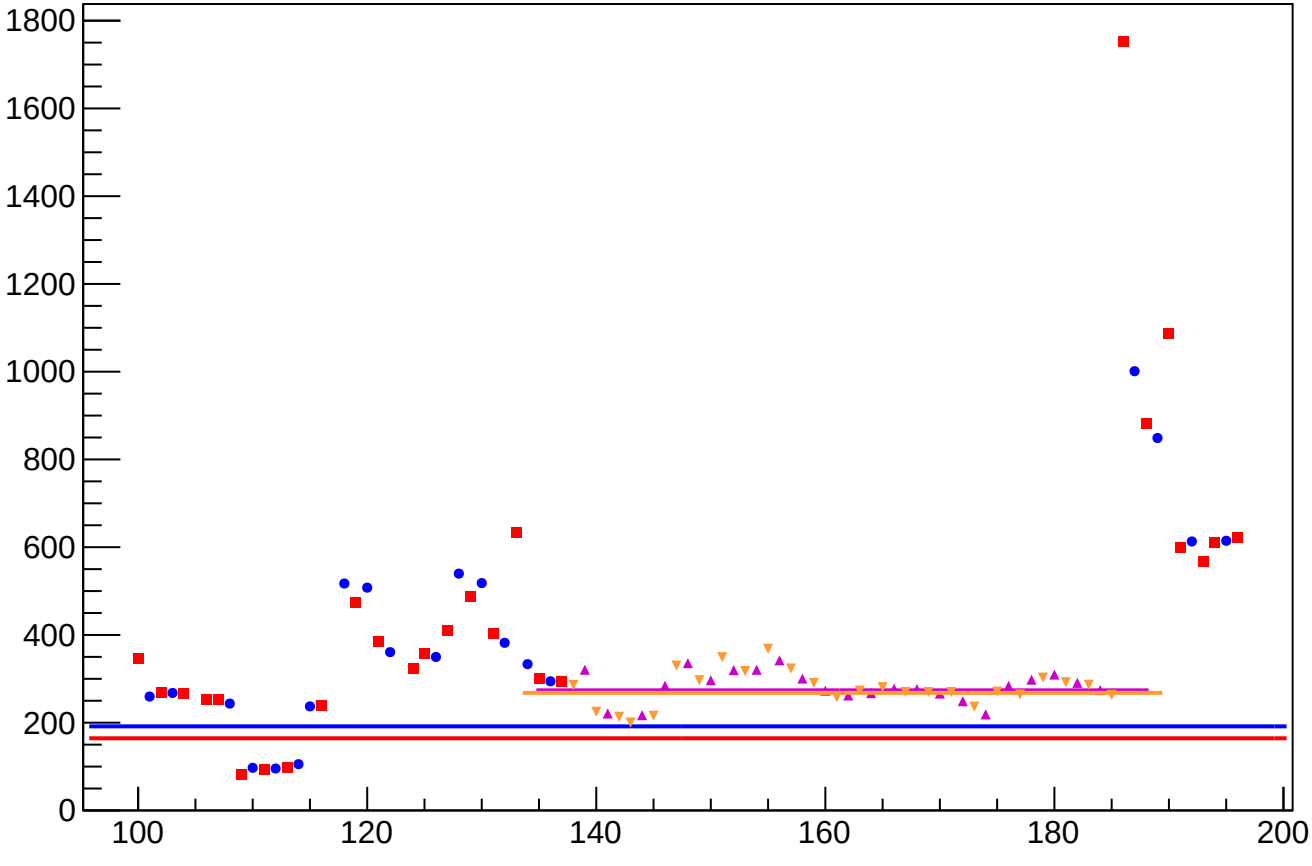
Right: -17.389+/-49.581 $\chi^2$/NDF: 43.2/45

In: 1.688+/-49.587 $\chi^2$/NDF:48.6/42

Out: -135.988+/-44.636 $\chi^2$/NDF:89.0/50

All: -74.364+/-33.175 $\chi^2$/NDF: 141.8/93

# asym_sam8_dit_correction_rms vs Slug, Sign Corrected




Right In: 191.666+/-0.055 $\chi^2$/NDF: 7114476.9/19

Left Out: 267.985+/-0.044 $\chi^2$/NDF:862786.9/24

Right Out: 164.493+/-0.046 $\chi^2$/NDF: 10593383.7/25

Left In: 273.751+/-0.046 $\chi^2$/NDF:650295.5/22

Left: 270.736+/-0.032 $\chi^2$/NDF: 1521404.4/47

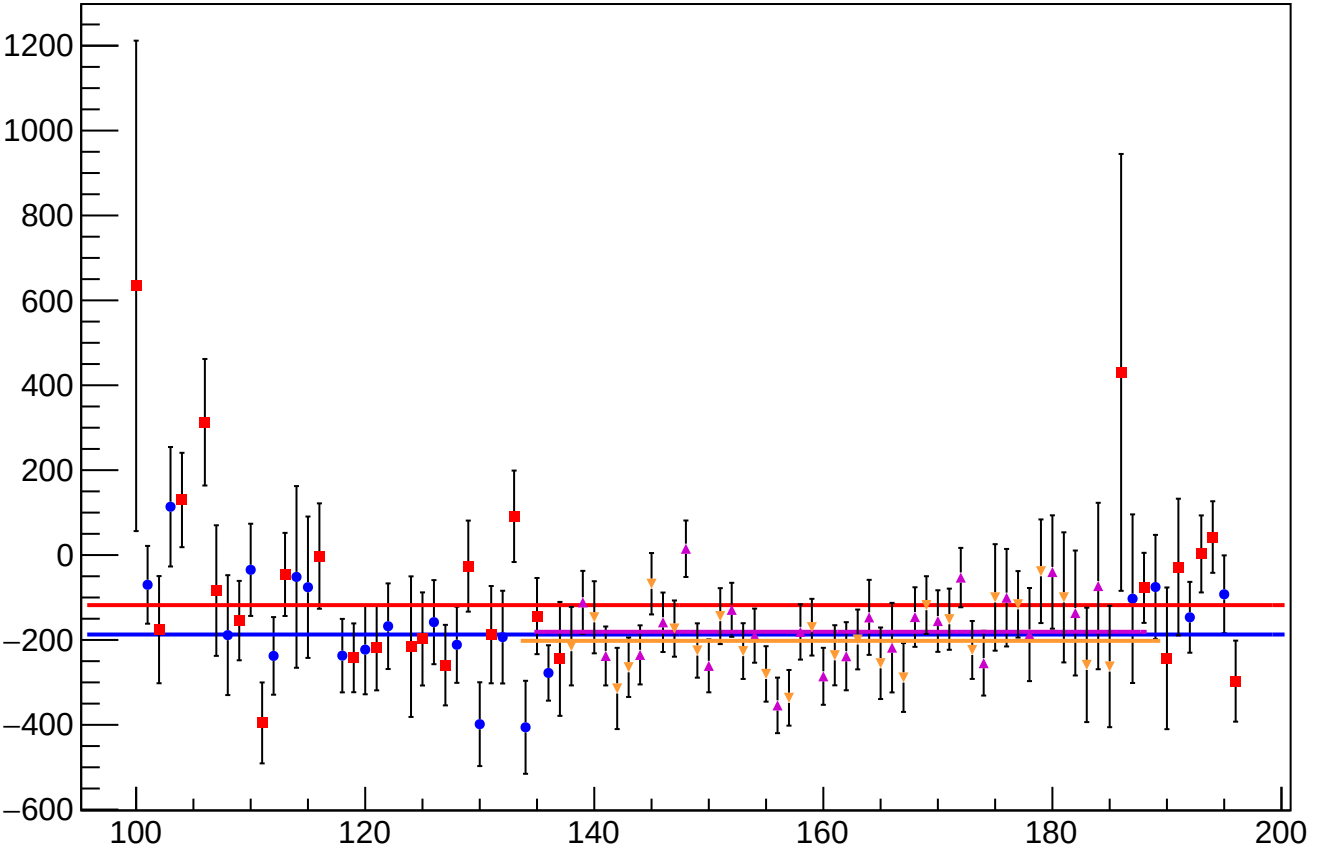
Right: 175.670+/-0.035 $\chi^2$/NDF: 17853315.9/45

In: 239.978+/-0.035 $\chi^2$/NDF:9091888.6/42

Out: 218.610+/-0.032 $\chi^2$/NDF:14138401.0/50

All: 228.174+/-0.023 $\chi^2$/NDF: 23435440.1/93

# eigen_dit_asym_sam8_mean vs Slug, Sign Corrected




Right In: -187.209+/-23.006 $\chi^2$/NDF: 22.8/19

Left Out: -202.090+/-15.538 $\chi^2$/NDF:21.5/24

Right Out: -117.956+/-21.632 $\chi^2$/NDF: 48.8/25

Left In: -180.785+/-16.019 $\chi^2$/NDF:30.1/22

Left: -191.762+/-11.153 $\chi^2$/NDF: 52.6/47

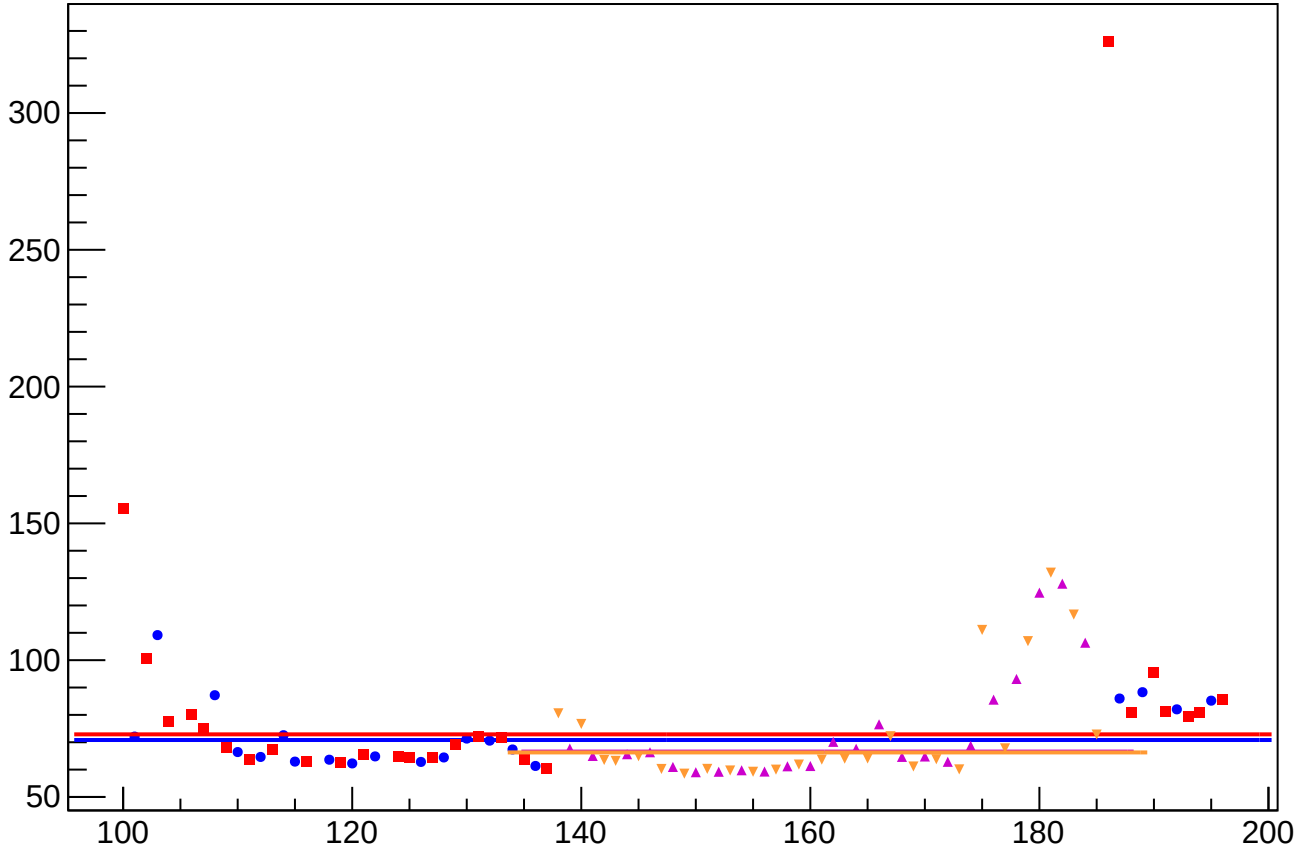
Right: -150.452+/-15.760 $\chi^2$/NDF: 76.4/45

In: -182.882+/-13.146 $\chi^2$/NDF:53.0/42

Out: -173.456+/-12.620 $\chi^2$/NDF:80.3/50

All: -177.976+/-9.104 $\chi^2$/NDF: 133.5/93

# eigen_dit_asym_sam8_rms vs Slug, Sign Corrected




Right In: 70.817+/-0.016 $\chi^2$/NDF: 432009.8/19

Left Out: 66.279+/-0.011 $\chi^2$/NDF:1393881.3/24

Right Out: 72.885+/-0.015 $\chi^2$/NDF: 912577.2/25

Left In: 66.585+/-0.011 $\chi^2$/NDF:1158231.7/22

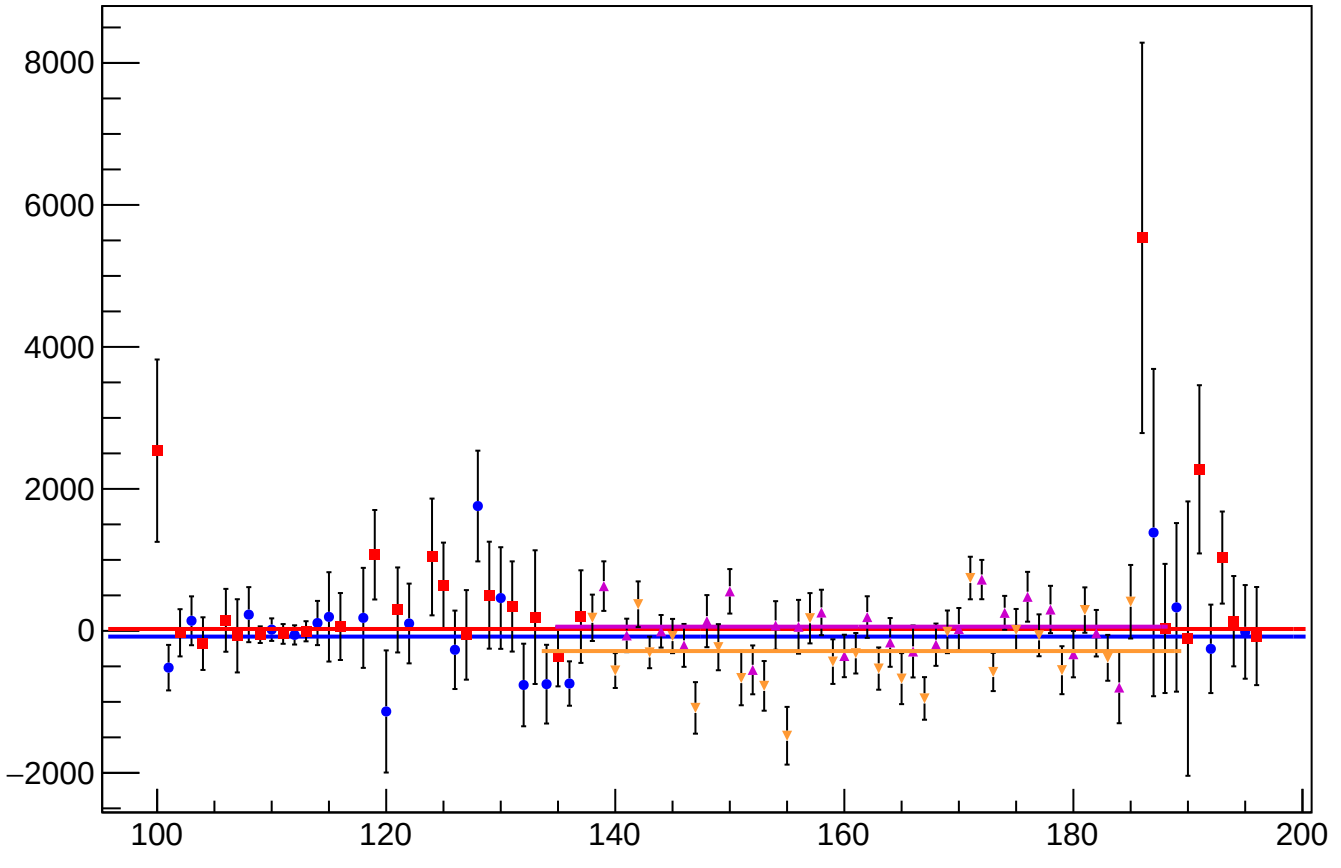
Left: 66.428+/-0.008 $\chi^2$/NDF: 2552490.1/47

Right: 71.915+/-0.011 $\chi^2$/NDF: 1353170.1/45

In: 67.967+/-0.009 $\chi^2$/NDF:1635801.9/42

Out: 68.527+/-0.009 $\chi^2$/NDF:2429506.6/50

All: 68.259+/-0.006 $\chi^2$/NDF: 4067200.1/93




Right In: -80.523+/-77.306 $\chi^2$/NDF: 19.8/19

Left Out: -284.450+/-61.727 $\chi^2$/NDF:54.6/24

Right Out: 26.728+/-64.623 $\chi^2$/NDF: 22.2/25

Left In: 59.160+/-64.636 $\chi^2$/NDF:26.8/22

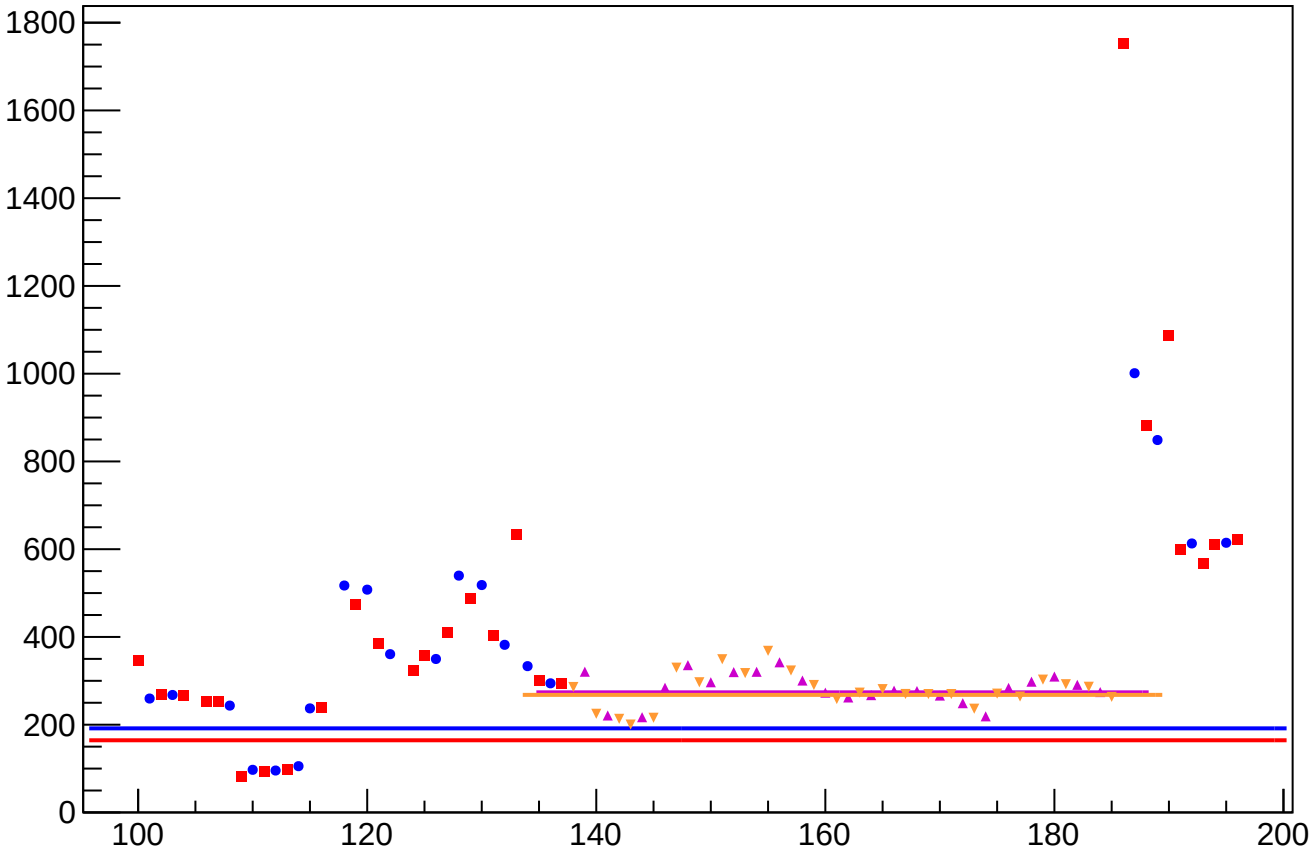
Left: -120.551+/-44.641 $\chi^2$/NDF: 96.2/47

Right: -17.389+/-49.581 $\chi^2$/NDF: 43.2/45

In: 1.689+/-49.587 $\chi^2$/NDF:48.6/42

Out: -135.988+/-44.636 $\chi^2$/NDF:89.0/50

All: -74.364+/-33.175 $\chi^2$/NDF: 141.8/93




Right In: 191.664+/-0.055 $\chi^2$/NDF: 7114509.2/19

Left Out: 267.985+/-0.044 $\chi^2$/NDF:862797.1/24

Right Out: 164.493+/-0.046 $\chi^2$/NDF: 10593363.8/25

Left In: 273.750+/-0.046 $\chi^2$/NDF:650300.9/22

Left: 270.735+/-0.032 $\chi^2$/NDF: 1521420.2/47

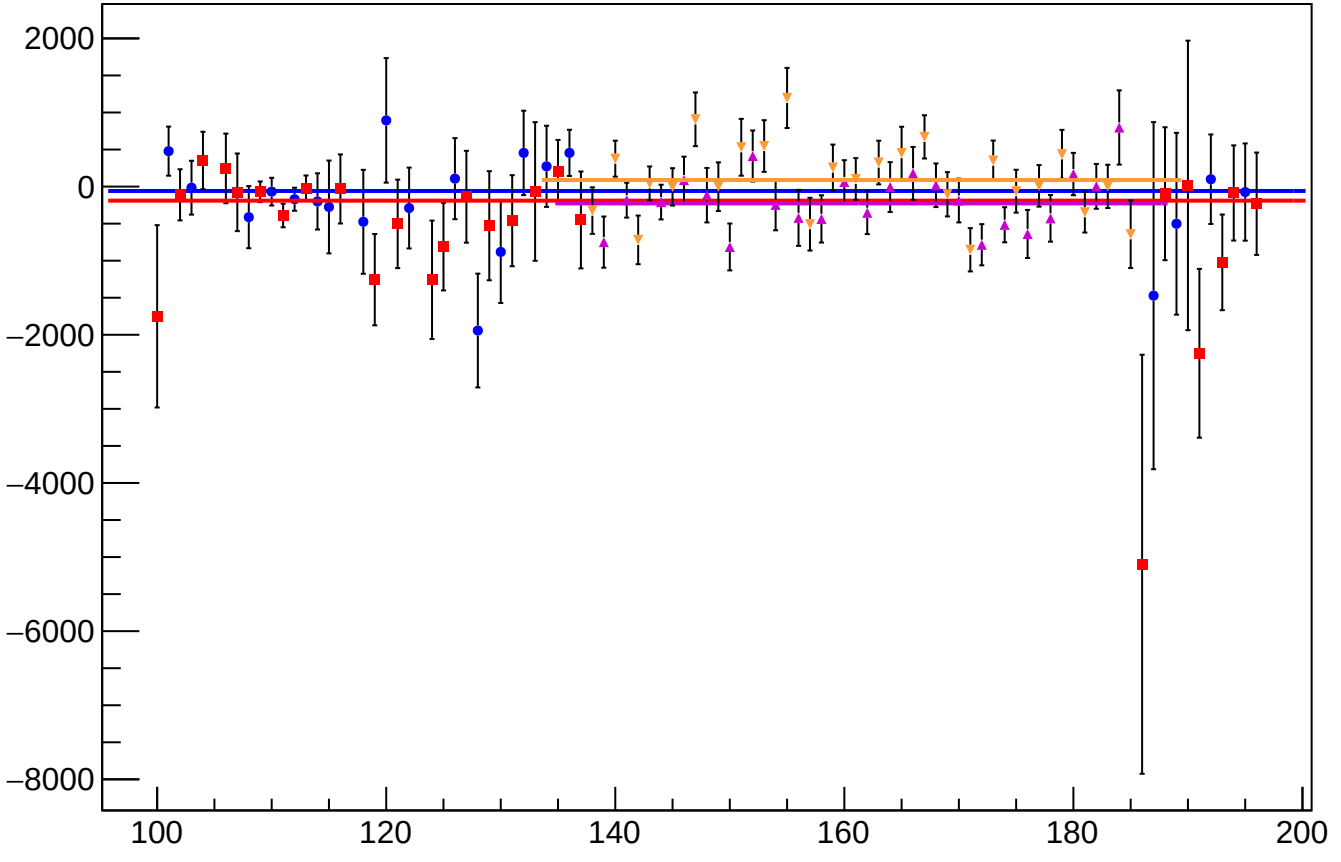
Right: 175.670+/-0.035 $\chi^2$/NDF: 17853317.4/45

In: 239.976+/-0.035 $\chi^2$/NDF:9091958.1/42

Out: 218.609+/-0.032 $\chi^2$/NDF:14138376.7/50

All: 228.173+/-0.023 $\chi^2$/NDF: 23435474.5/93

# asym_sam8_mean vs Slug, Sign Corrected




Right In: -59.114+/-85.015 $\chi^2$/NDF: 17.9/19

Left Out: 88.397+/-60.666 $\chi^2$/NDF:52.2/24

Right Out: -189.834+/-72.735 $\chi^2$/NDF: 23.6/25

Left In: -226.867+/-63.677 $\chi^2$/NDF:28.8/22

Left: -61.606+/-43.923 $\chi^2$/NDF: 93.9/47

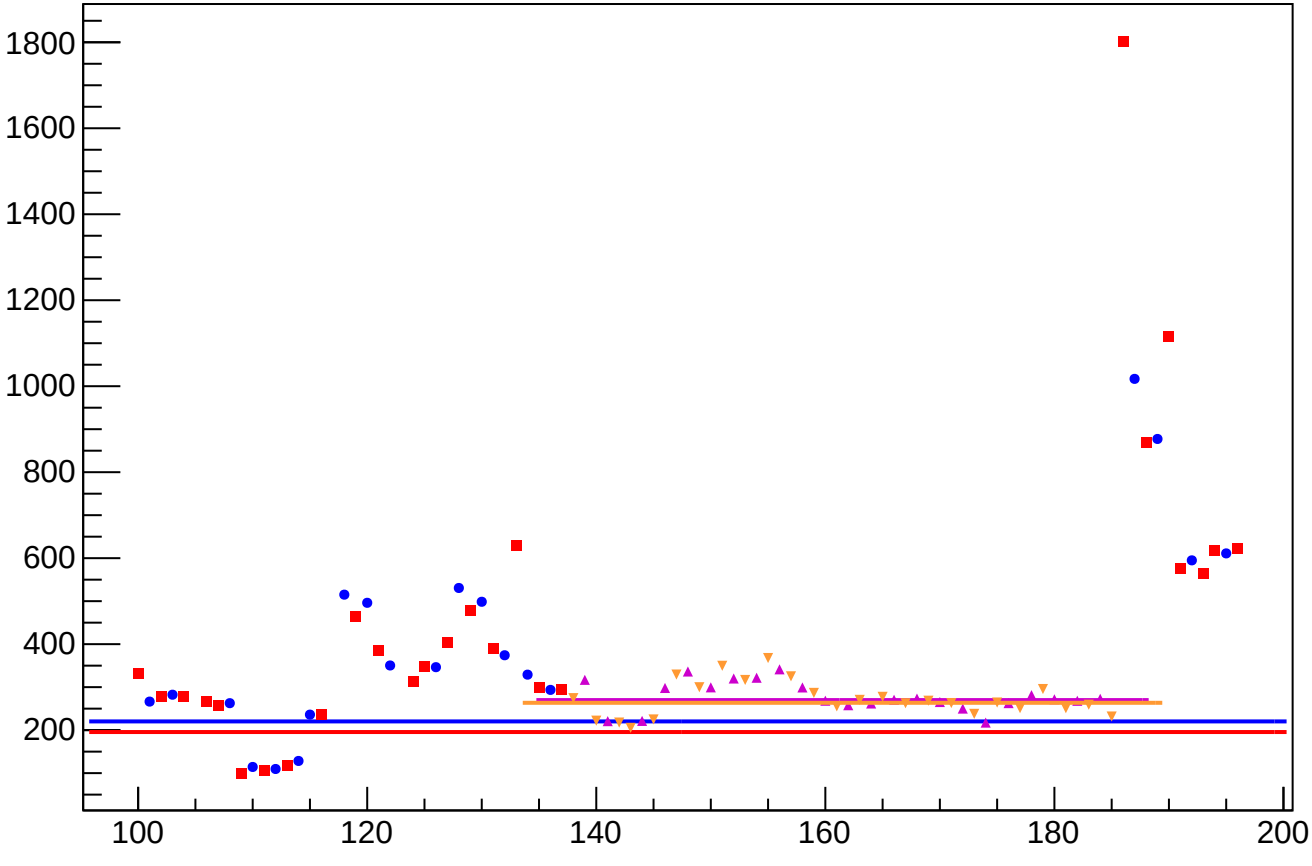
Right: -134.588+/-55.268 $\chi^2$/NDF: 42.9/45

In: -166.578+/-50.966 $\chi^2$/NDF:49.3/42

Out: -25.751+/-46.588 $\chi^2$/NDF:84.4/50

All: -89.858+/-34.386 $\chi^2$/NDF: 137.8/93

# asym_sam8_rms vs Slug, Sign Corrected




Right In: 220.296+/-0.060 $\chi^2$/NDF: 5951373.6/19

Left Out: 263.593+/-0.043 $\chi^2$/NDF:779853.4/24

Right Out: 195.589+/-0.051 $\chi^2$/NDF: 9122603.1/25

Left In: 269.898+/-0.045 $\chi^2$/NDF:602244.3/22

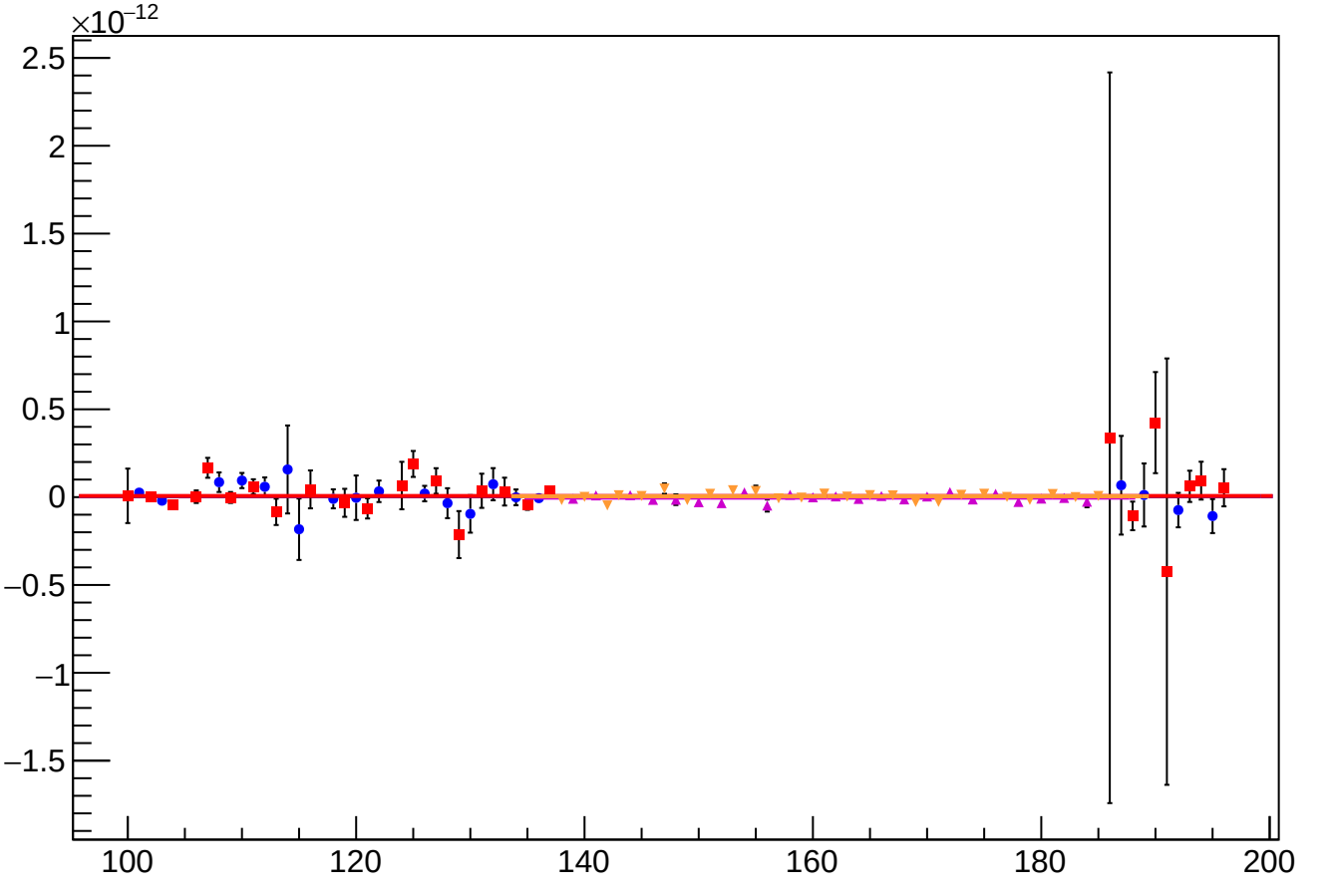
Left: 266.593+/-0.031 $\chi^2$/NDF: 1392375.9/47

Right: 206.031+/-0.039 $\chi^2$/NDF: 15171499.5/45

In: 252.071+/-0.036 $\chi^2$/NDF:6989766.6/42

Out: 235.693+/-0.033 $\chi^2$/NDF:10933463.8/50

All: 243.149+/-0.024 $\chi^2$/NDF: 18035742.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:27.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 36.0/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.5/22

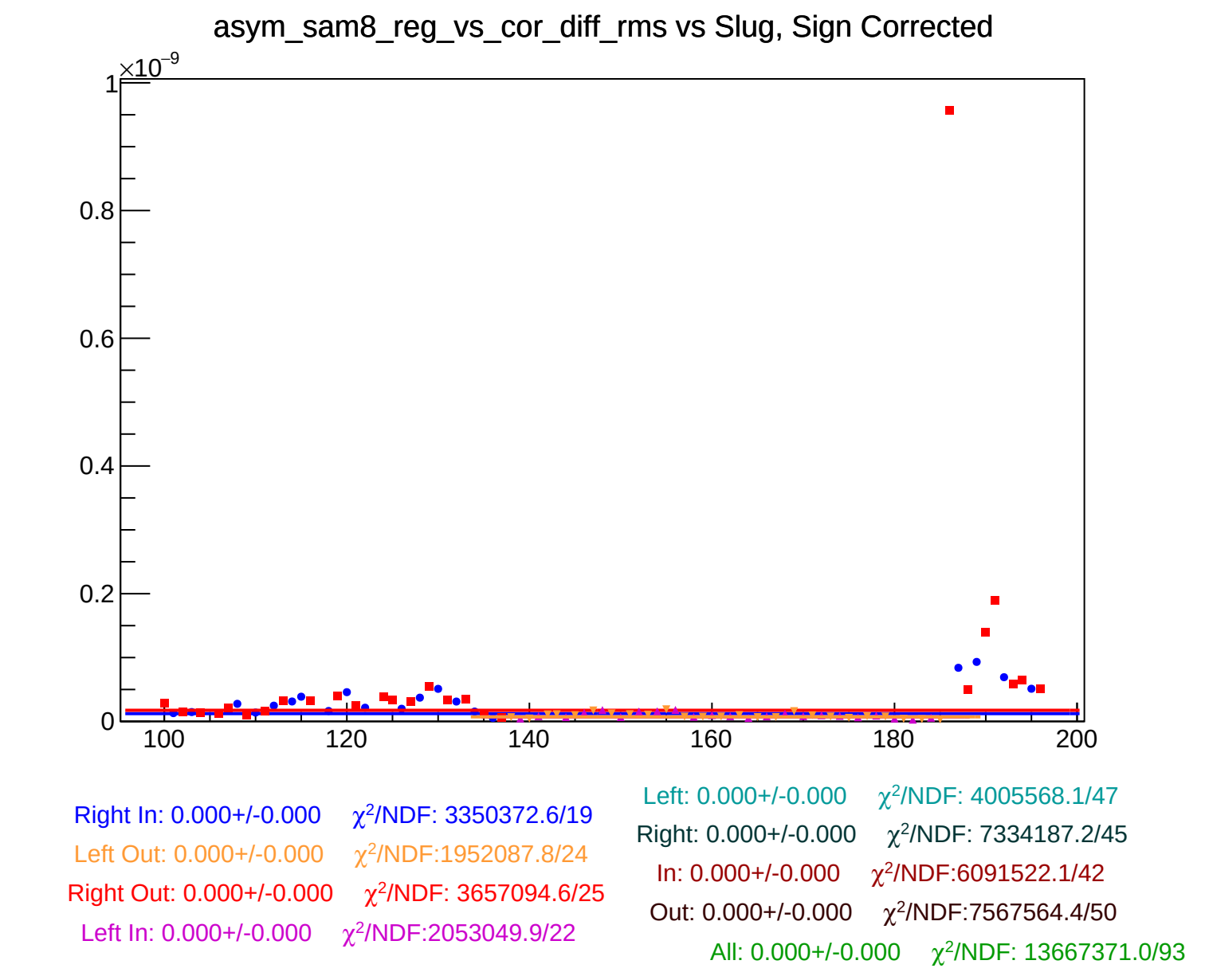
Left: 0.000+/-0.000 $\chi^2$/NDF: 52.6/47

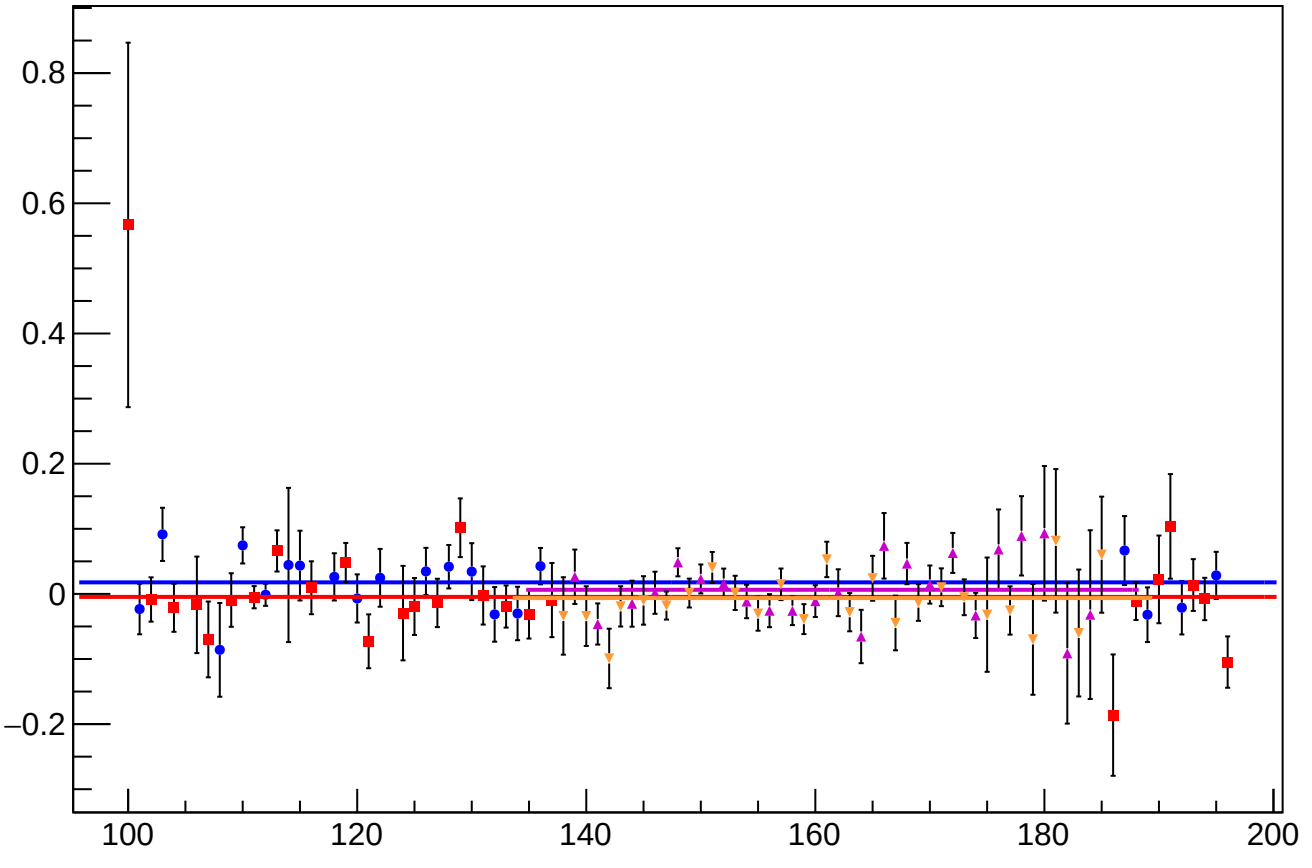
Right: 0.000+/-0.000 $\chi^2$/NDF: 51.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:38.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:63.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 104.8/93


asym_sam8_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3350372.6/19
Left Out: 0.000+/-0.000 χ²/NDF:1952087.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 3657094.6/25
Left In: 0.000+/-0.000 χ²/NDF:2053049.9/22
Left: 0.000+/-0.000 χ²/NDF: 4005568.1/47
Right: 0.000+/-0.000 χ²/NDF: 7334187.2/45
In: 0.000+/-0.000 χ²/NDF:6091522.1/42
Out: 0.000+/-0.000 χ²/NDF:7567564.4/50
All: 0.000+/-0.000 χ²/NDF: 13667371.0/93




Right In: 0.018+/-0.008 $\chi^2$/NDF: 20.3/19

Left Out: -0.006+/-0.006 $\chi^2$/NDF:22.6/24

Right Out: -0.005+/-0.008 $\chi^2$/NDF: 35.6/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:28.4/22

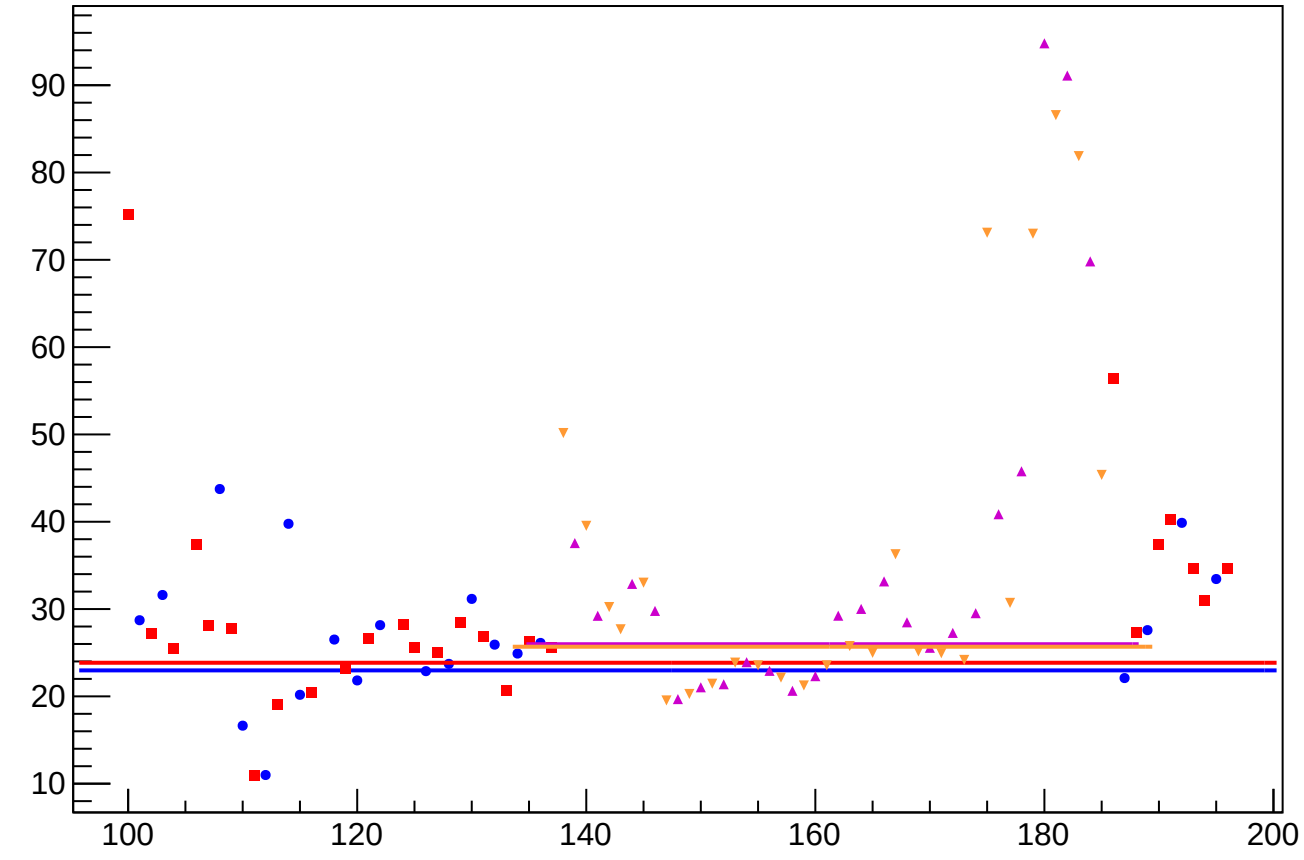
Left: -0.000+/-0.005 $\chi^2$/NDF: 52.9/47

Right: 0.006+/-0.005 $\chi^2$/NDF: 60.1/45

In: 0.011+/-0.005 $\chi^2$/NDF:49.9/42

Out: -0.006+/-0.005 $\chi^2$/NDF:58.2/50

All: 0.002+/-0.004 $\chi^2$/NDF: 113.7/93




Right In: 22.975+/-0.006 $\chi^2$/NDF: 2133142.7/19

Left Out: 25.685+/-0.005 $\chi^2$/NDF:3871541.1/24

Right Out: 23.849+/-0.005 $\chi^2$/NDF: 2311358.1/25

Left In: 25.972+/-0.005 $\chi^2$/NDF:3118335.6/22

Left: 25.823+/-0.003 $\chi^2$/NDF: 6991814.9/47

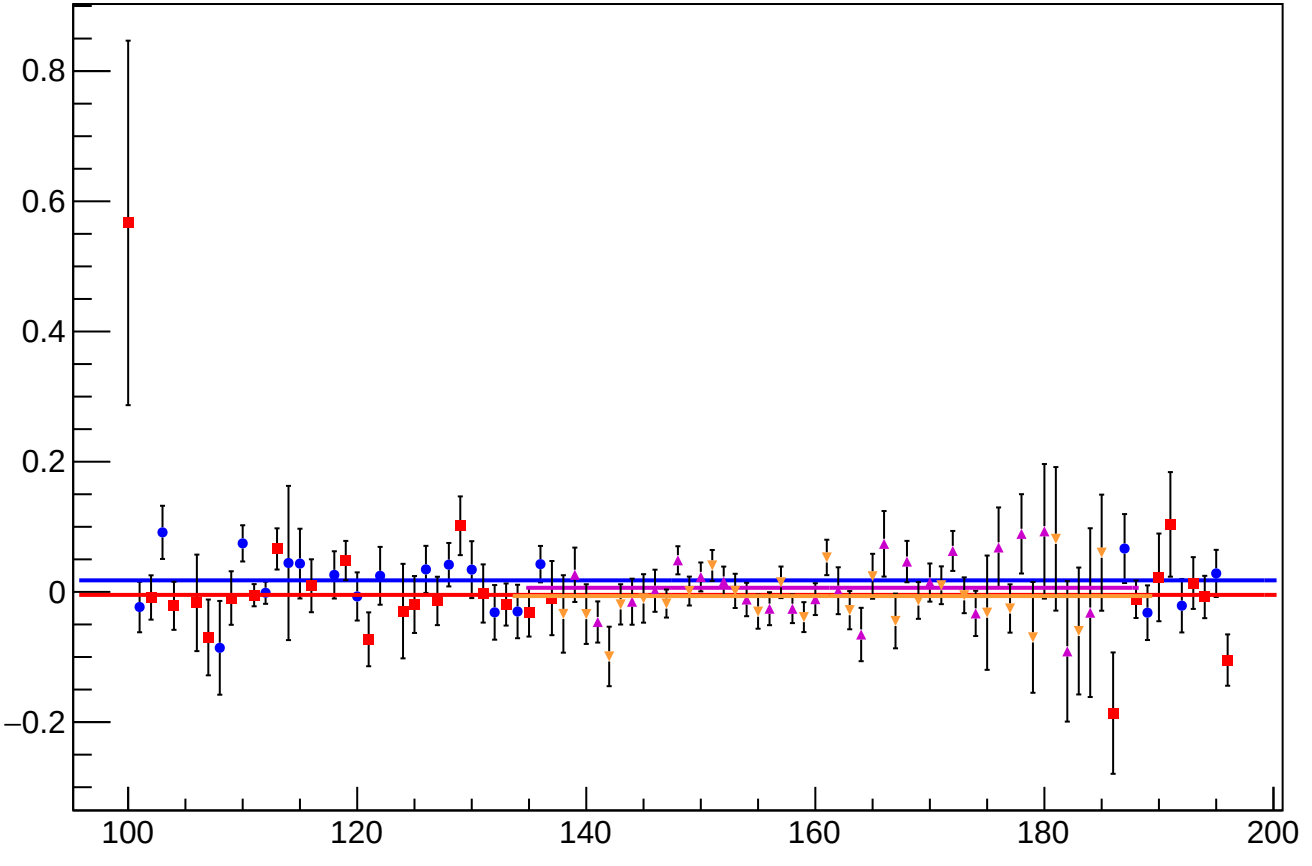
Right: 23.441+/-0.004 $\chi^2$/NDF: 4457169.7/45

In: 24.757+/-0.004 $\chi^2$/NDF:5417361.8/42

Out: 24.913+/-0.003 $\chi^2$/NDF:6252163.4/50

All: 24.839+/-0.002 $\chi^2$/NDF: 11670513.0/93

asym_sam8_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.008 $\chi^2$/NDF: 20.3/19

Left Out: -0.006+/-0.006 $\chi^2$/NDF:22.6/24

Right Out: -0.005+/-0.008 $\chi^2$/NDF: 35.6/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:28.4/22

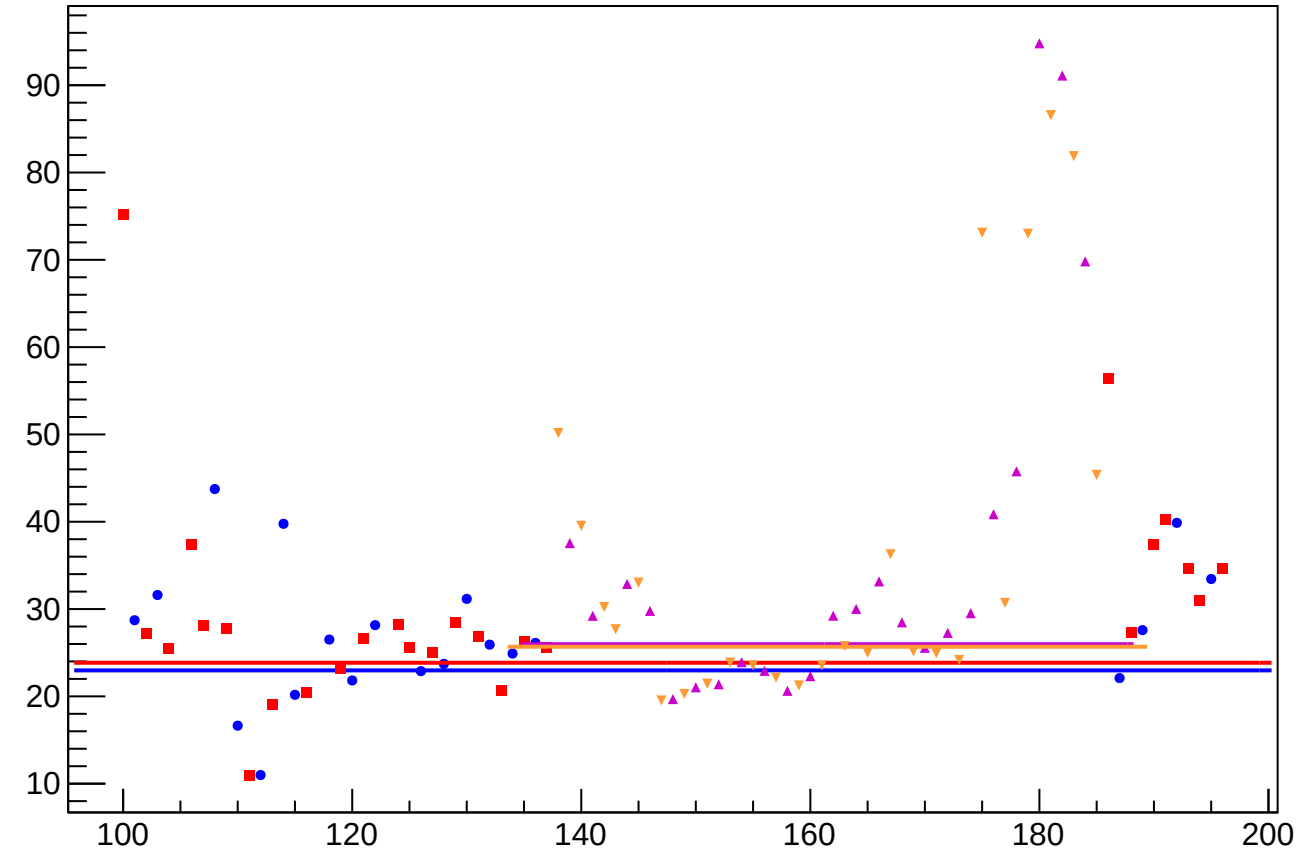
Left: -0.000+/-0.005 $\chi^2$/NDF: 52.9/47

Right: 0.006+/-0.005 $\chi^2$/NDF: 60.1/45

In: 0.011+/-0.005 $\chi^2$/NDF:49.9/42

Out: -0.006+/-0.005 $\chi^2$/NDF:58.2/50

All: 0.002+/-0.004 $\chi^2$/NDF: 113.7/93




Right In: 22.975+/-0.006 $\chi^2$/NDF: 2133142.7/19

Left Out: 25.685+/-0.005 $\chi^2$/NDF:3871541.1/24

Right Out: 23.849+/-0.005 $\chi^2$/NDF: 2311358.1/25

Left In: 25.972+/-0.005 $\chi^2$/NDF:3118335.6/22

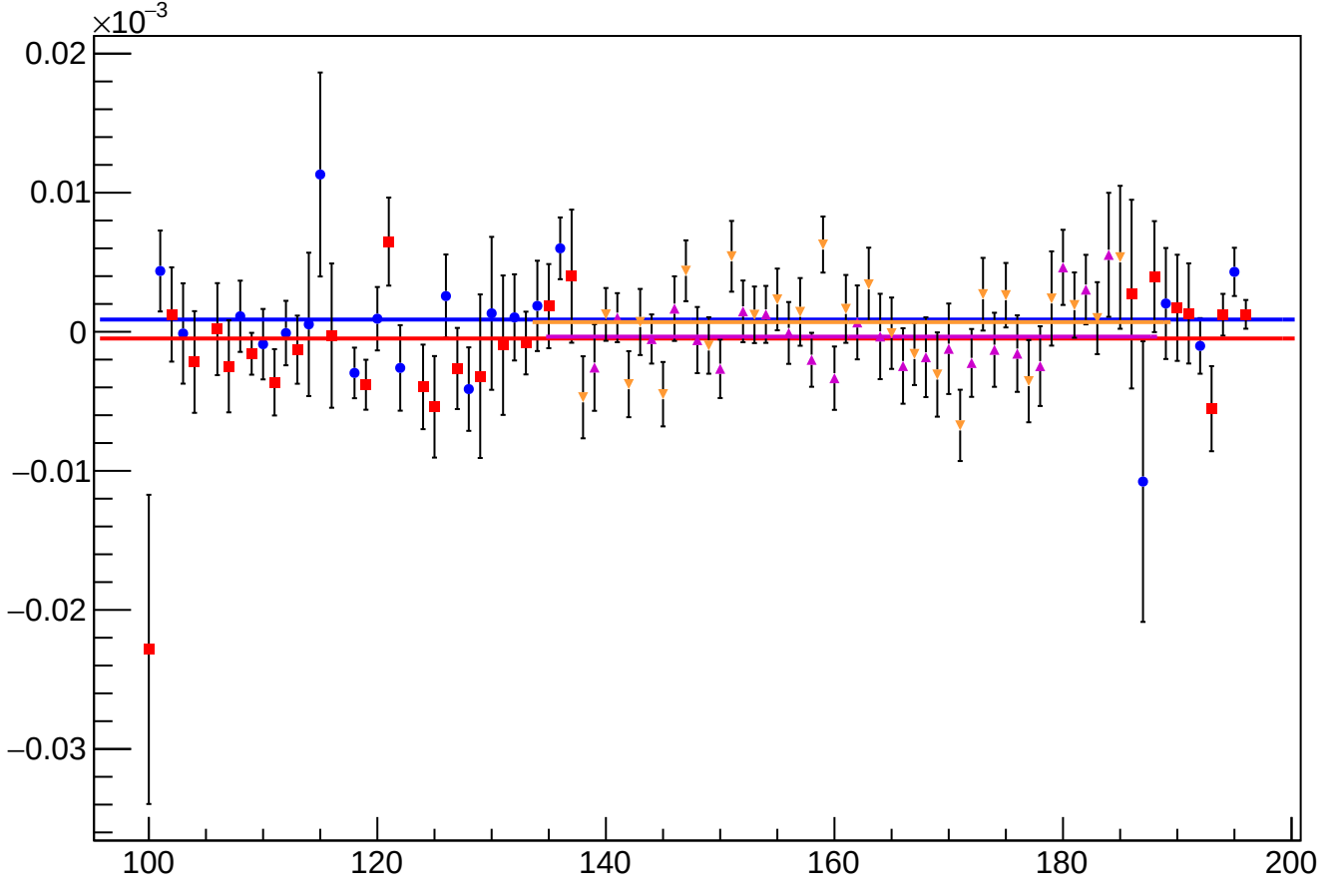
Left: 25.823+/-0.003 $\chi^2$/NDF: 6991814.9/47

Right: 23.441+/-0.004 $\chi^2$/NDF: 4457169.7/45

In: 24.757+/-0.004 $\chi^2$/NDF:5417361.8/42

Out: 24.913+/-0.003 $\chi^2$/NDF:6252163.4/50

All: 24.839+/-0.002 $\chi^2$/NDF: 11670513.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:44.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.4/22

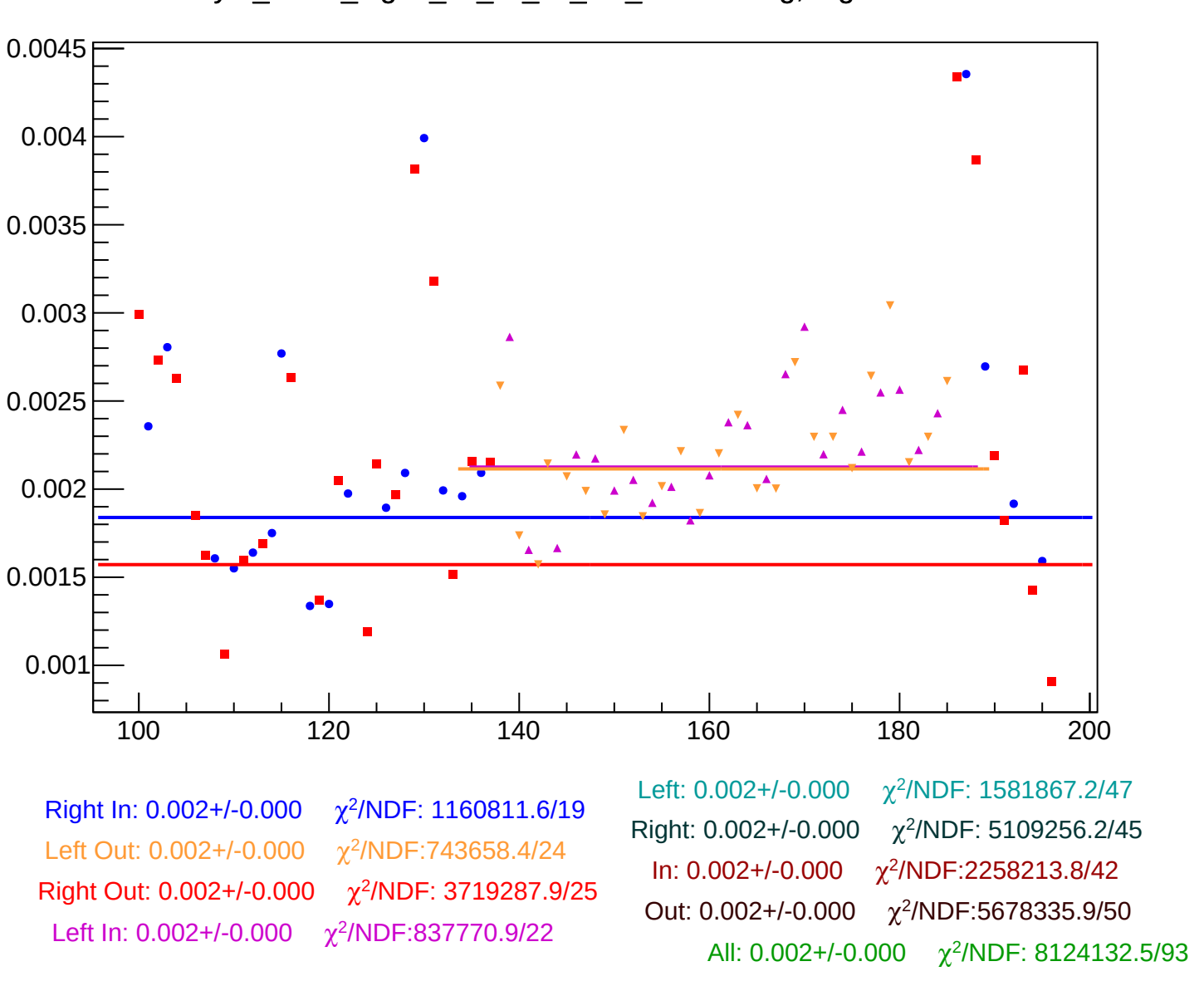
Left: 0.000+/-0.000 $\chi^2$/NDF: 62.9/47

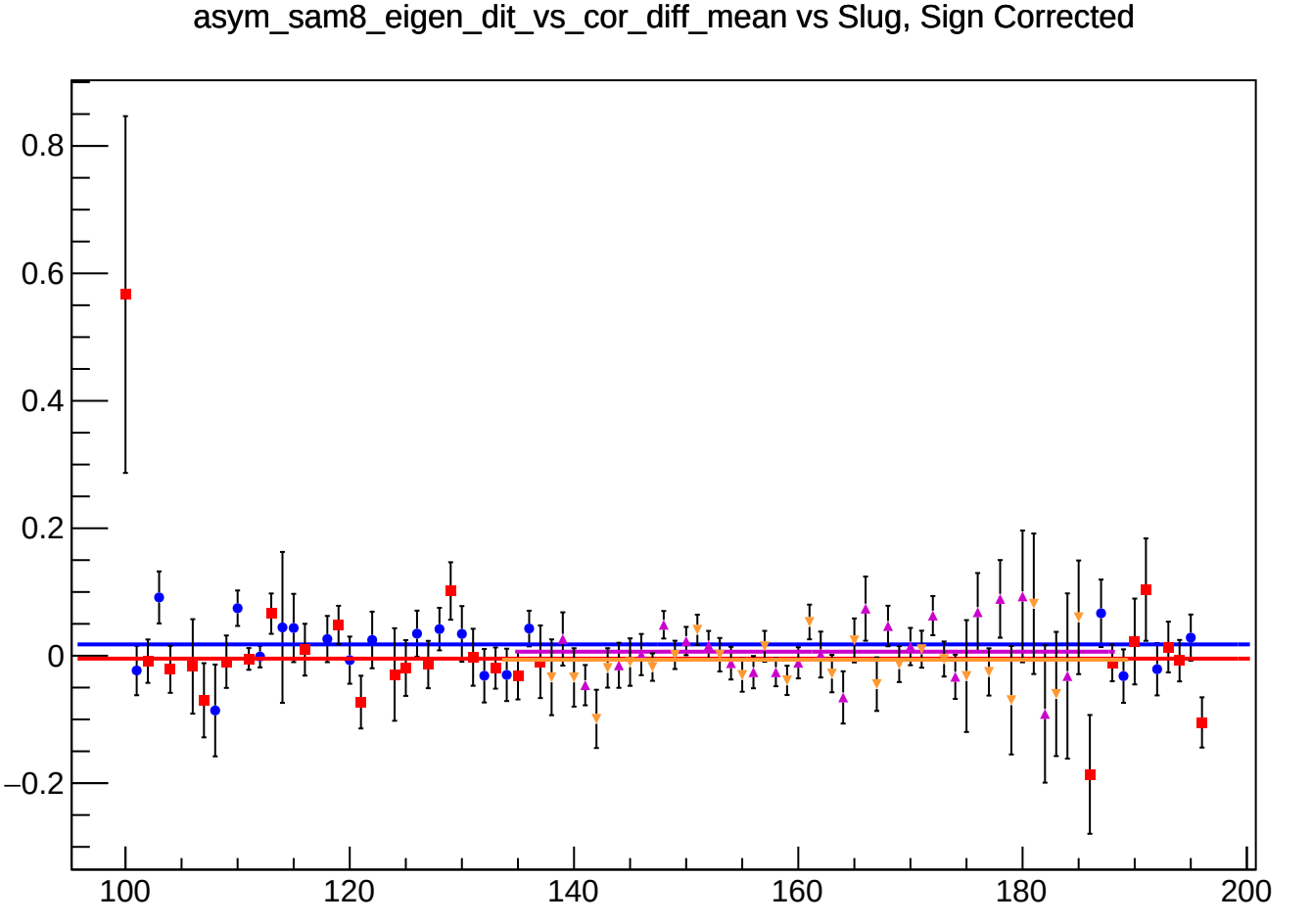
Right: 0.000+/-0.000 $\chi^2$/NDF: 57.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:43.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:77.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 120.5/93


asym_sam8_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
100
120
140
160
180
200
Right In: 0.002+/-0.000 χ²/NDF: 1160811.6/19
Left Out: 0.002+/-0.000 χ²/NDF:743658.4/24
Right Out: 0.002+/-0.000 χ²/NDF: 3719287.9/25
Left In: 0.002+/-0.000 χ²/NDF:837770.9/22
Left: 0.002+/-0.000 χ²/NDF: 1581867.2/47
Right: 0.002+/-0.000 χ²/NDF: 5109256.2/45
In: 0.002+/-0.000 χ²/NDF:2258213.8/42
Out: 0.002+/-0.000 χ²/NDF:5678335.9/50
All: 0.002+/-0.000 χ²/NDF: 8124132.5/93




Right In: 0.018+/-0.008 $\chi^2$/NDF: 20.3/19

Left Out: -0.006+/-0.006 $\chi^2$/NDF:22.6/24

Right Out: -0.005+/-0.008 $\chi^2$/NDF: 35.6/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:28.4/22

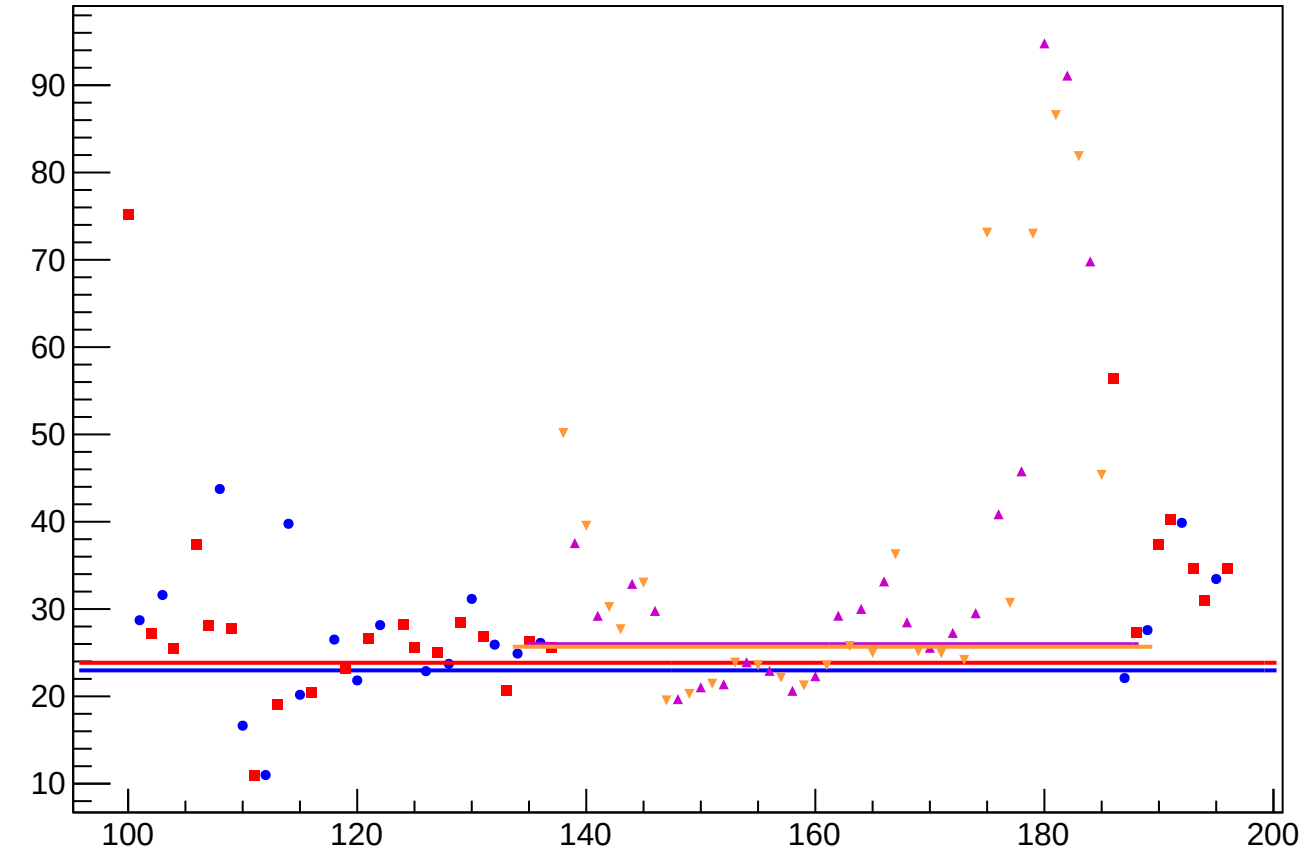
Left: -0.000+/-0.005 $\chi^2$/NDF: 52.9/47

Right: 0.006+/-0.005 $\chi^2$/NDF: 60.1/45

In: 0.011+/-0.005 $\chi^2$/NDF:49.9/42

Out: -0.006+/-0.005 $\chi^2$/NDF:58.2/50

All: 0.002+/-0.004 $\chi^2$/NDF: 113.7/93




Right In: 22.974+/-0.006 $\chi^2$/NDF: 2133334.1/19

Left Out: 25.685+/-0.005 $\chi^2$/NDF:3871544.4/24

Right Out: 23.849+/-0.005 $\chi^2$/NDF: 2311551.2/25

Left In: 25.972+/-0.005 $\chi^2$/NDF:3118315.0/22

Left: 25.823+/-0.003 $\chi^2$/NDF: 6991798.2/47

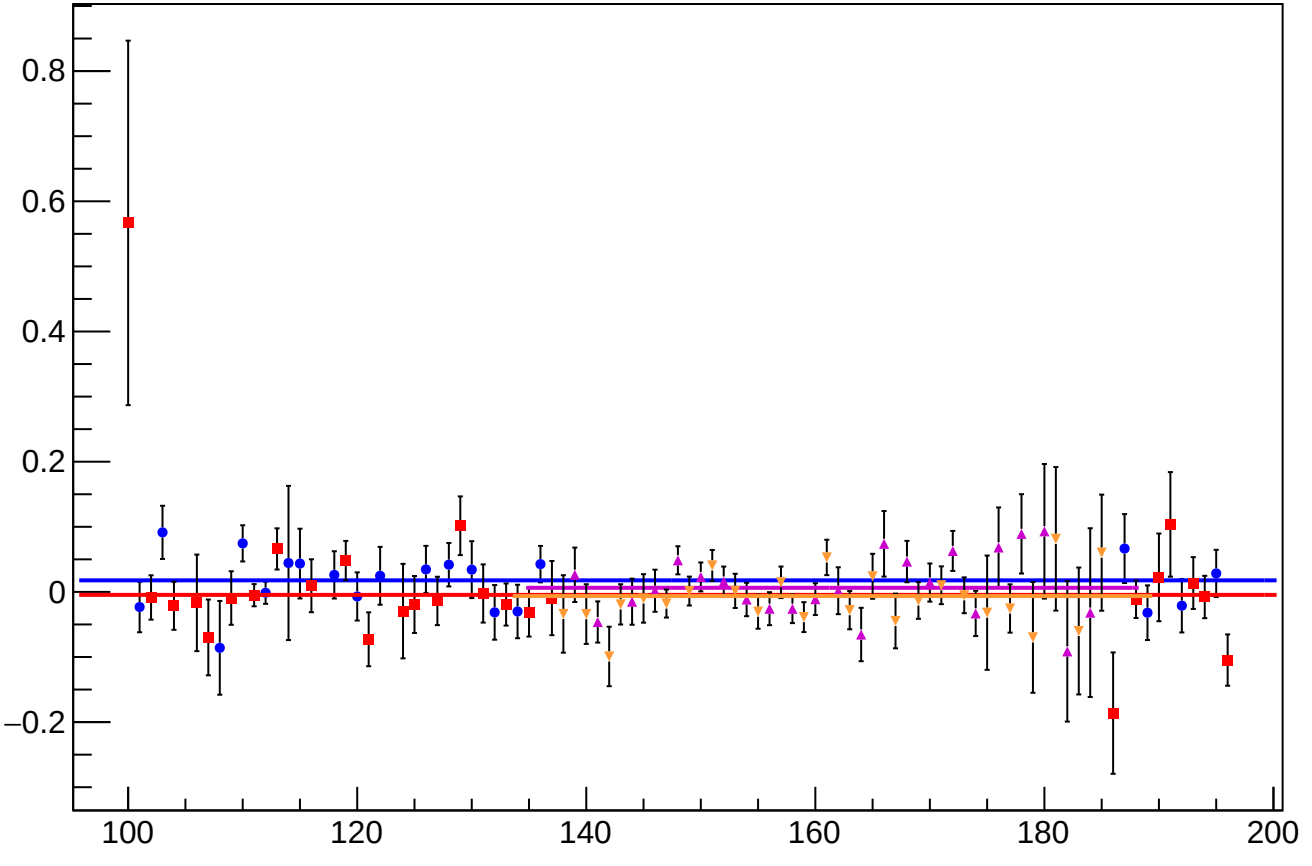
Right: 23.440+/-0.004 $\chi^2$/NDF: 4457552.2/45

In: 24.756+/-0.004 $\chi^2$/NDF:5417613.5/42

Out: 24.913+/-0.003 $\chi^2$/NDF:6252417.8/50

All: 24.838+/-0.002 $\chi^2$/NDF: 11671018.3/93

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.008 $\chi^2$/NDF: 20.3/19

Left Out: -0.006+/-0.006 $\chi^2$/NDF:22.6/24

Right Out: -0.005+/-0.008 $\chi^2$/NDF: 35.6/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:28.4/22

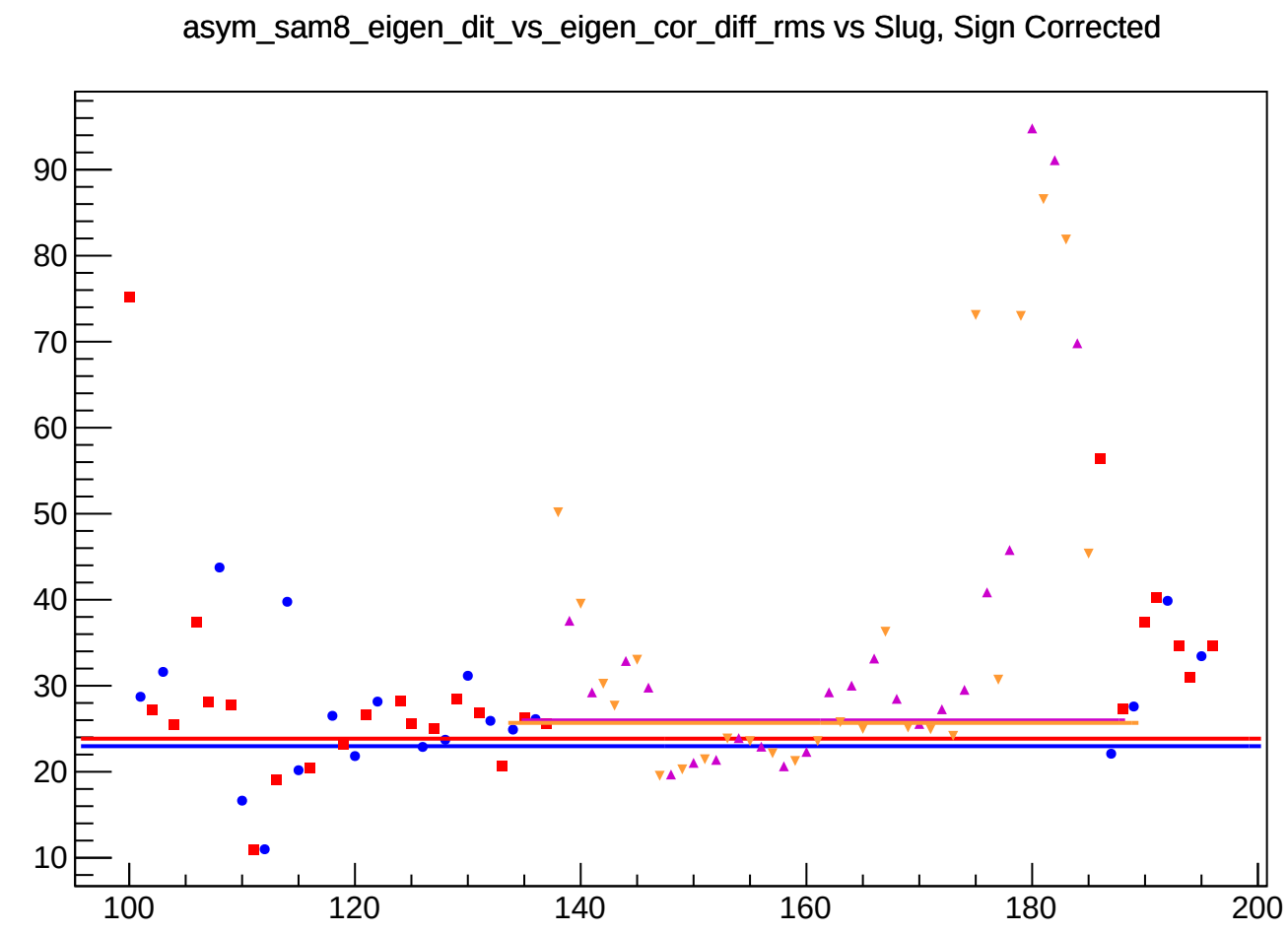
Left: -0.000+/-0.005 $\chi^2$/NDF: 52.9/47

Right: 0.006+/-0.005 $\chi^2$/NDF: 60.1/45

In: 0.011+/-0.005 $\chi^2$/NDF:49.9/42

Out: -0.006+/-0.005 $\chi^2$/NDF:58.2/50

All: 0.002+/-0.004 $\chi^2$/NDF: 113.7/93




Right In: 22.974+/-0.006 $\chi^2$/NDF: 2133334.1/19

Left Out: 25.685+/-0.005 $\chi^2$/NDF:3871544.4/24

Right Out: 23.849+/-0.005 $\chi^2$/NDF: 2311551.2/25

Left In: 25.972+/-0.005 $\chi^2$/NDF:3118315.0/22

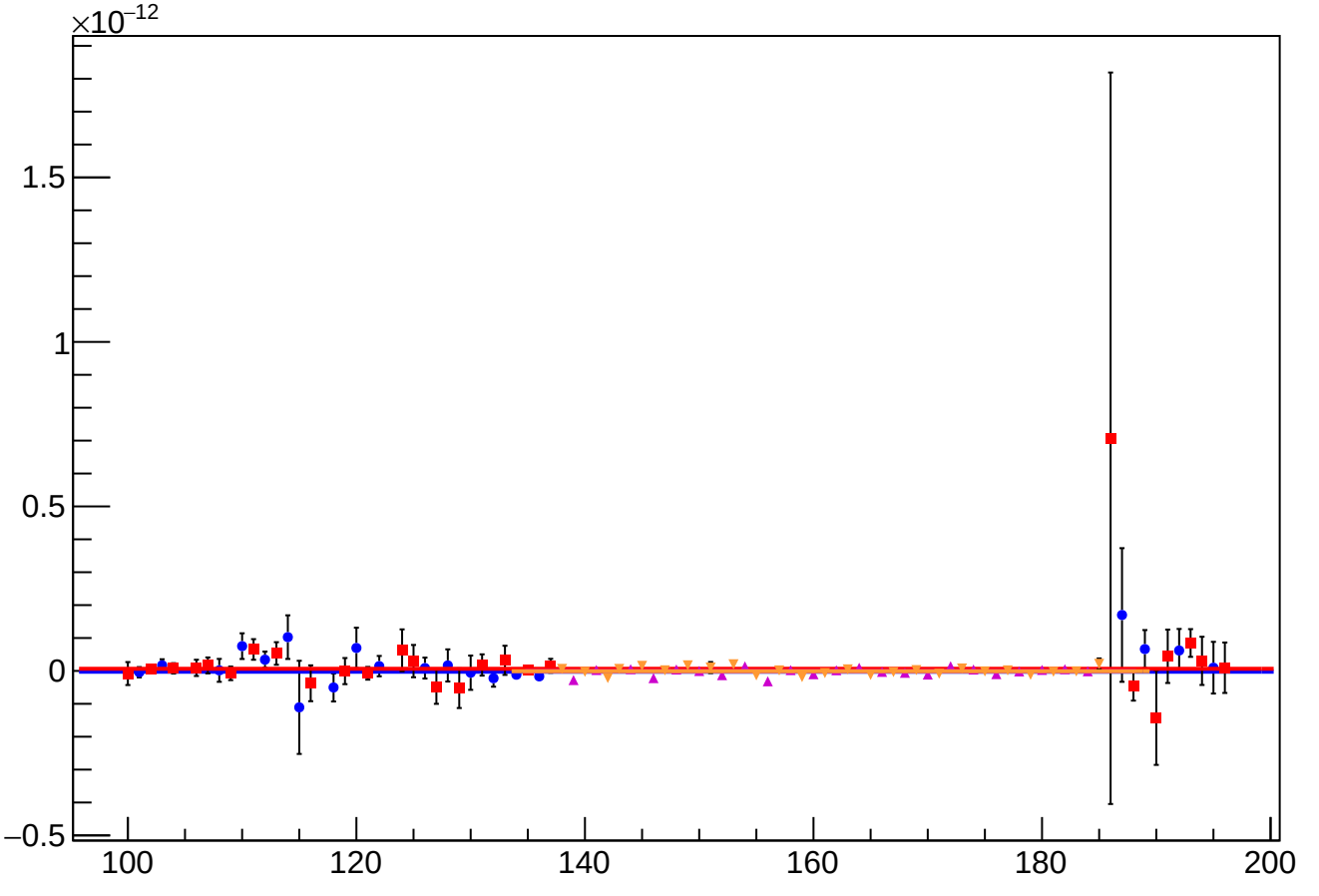
Left: 25.823+/-0.003 $\chi^2$/NDF: 6991798.2/47

Right: 23.440+/-0.004 $\chi^2$/NDF: 4457552.2/45

In: 24.756+/-0.004 $\chi^2$/NDF:5417613.5/42

Out: 24.913+/-0.003 $\chi^2$/NDF:6252417.8/50

All: 24.838+/-0.002 $\chi^2$/NDF: 11671018.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:28.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:29.7/22

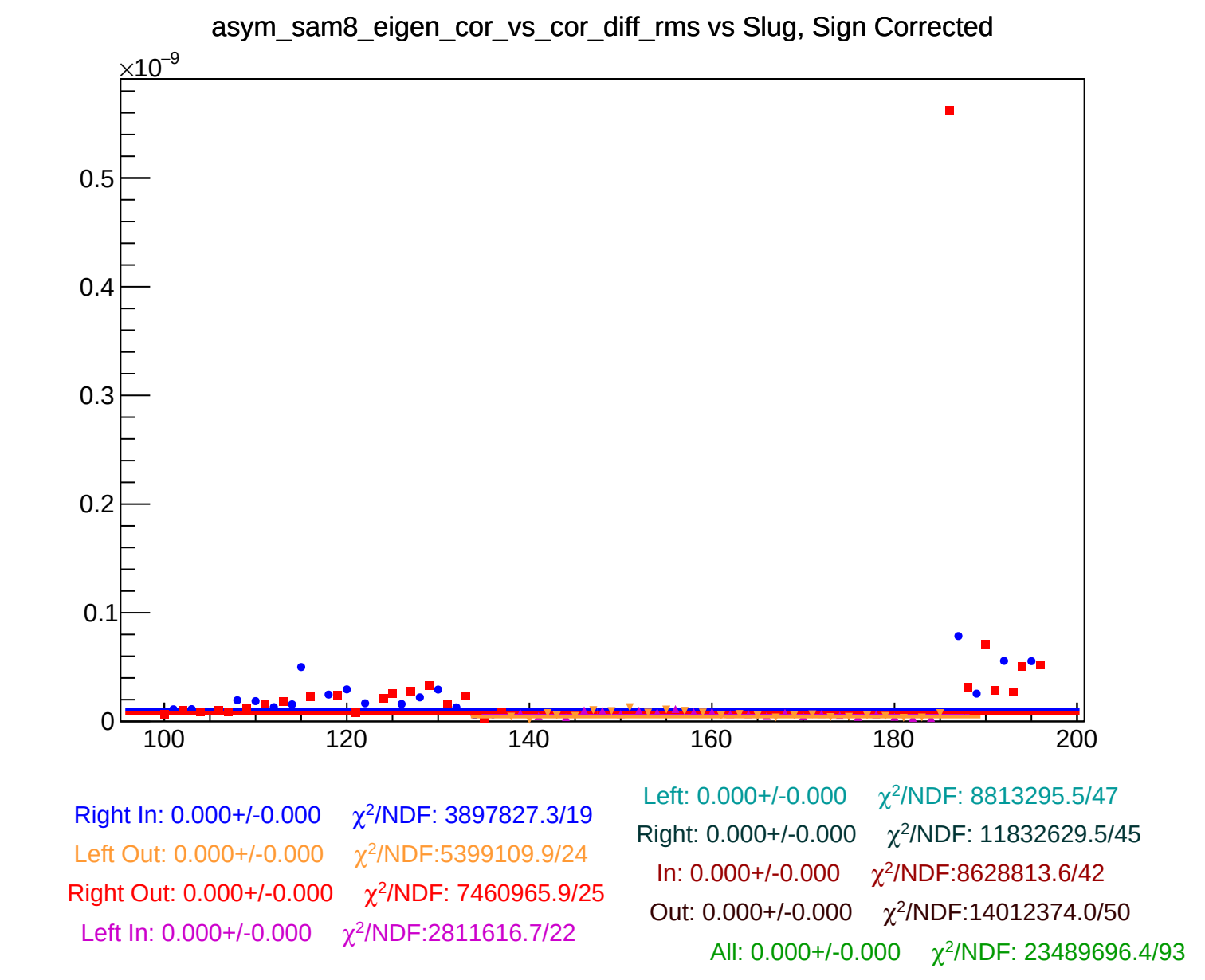
Left: -0.000+/-0.000 $\chi^2$/NDF: 58.5/47

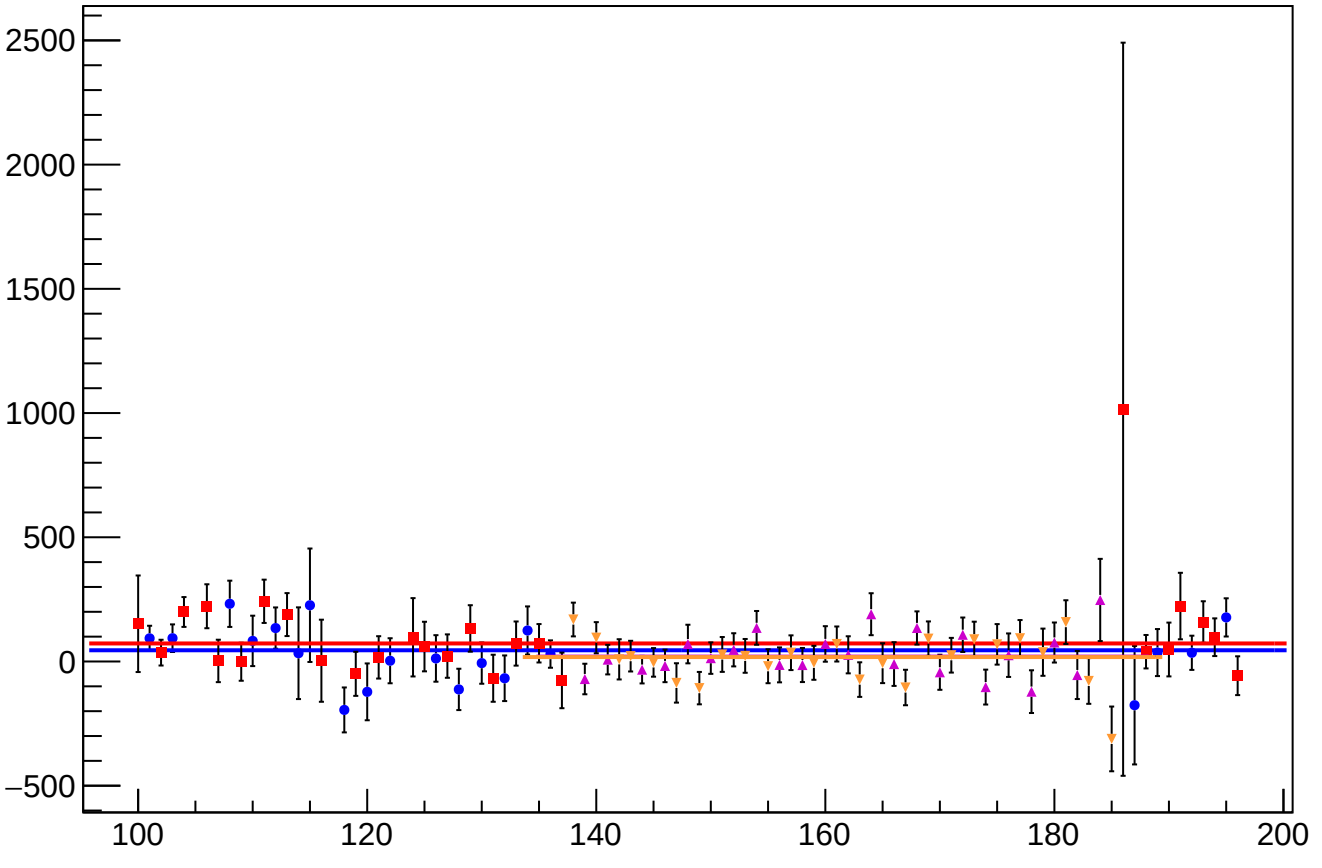
Right: 0.000+/-0.000 $\chi^2$/NDF: 40.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:50.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 99.7/93


asym_sam8_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3897827.3/19
Left Out: 0.000+/-0.000 χ²/NDF:5399109.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 7460965.9/25
Left In: 0.000+/-0.000 χ²/NDF:2811616.7/22
Left: 0.000+/-0.000 χ²/NDF: 8813295.5/47
Right: 0.000+/-0.000 χ²/NDF: 11832629.5/45
In: 0.000+/-0.000 χ²/NDF:8628813.6/42
Out: 0.000+/-0.000 χ²/NDF:14012374.0/50
All: 0.000+/-0.000 χ²/NDF: 23489696.4/93




Right In: 45.161+/-18.540 $\chi^2$/NDF: 27.3/19

Left Out: 17.800+/-14.495 $\chi^2$/NDF:31.6/24

Right Out: 72.583+/-17.166 $\chi^2$/NDF: 28.4/25

Left In: 19.642+/-15.040 $\chi^2$/NDF:26.2/22

Left: 18.687+/-10.437 $\chi^2$/NDF: 57.8/47

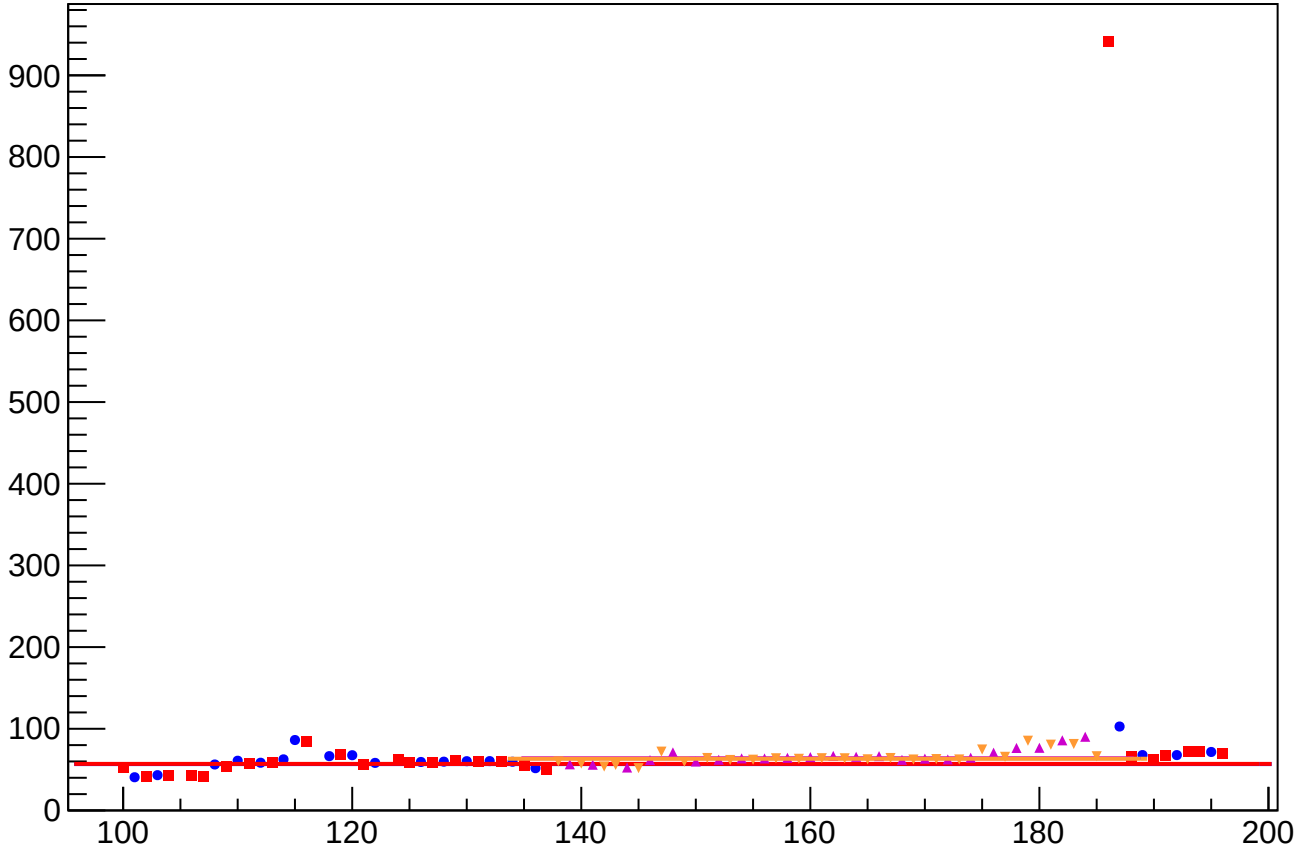
Right: 59.926+/-12.596 $\chi^2$/NDF: 56.8/45

In: 29.771+/-11.680 $\chi^2$/NDF:54.6/42

Out: 40.603+/-11.075 $\chi^2$/NDF:65.9/50

All: 35.475+/-8.037 $\chi^2$/NDF: 121.0/93

# reg_asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 56.776+/-0.013 $\chi^2$/NDF: 659780.4/19

Left Out: 63.312+/-0.010 $\chi^2$/NDF:497429.6/24

Right Out: 56.998+/-0.012 $\chi^2$/NDF: 1492877.5/25

Left In: 63.918+/-0.011 $\chi^2$/NDF:445309.5/22

Left: 63.604+/-0.007 $\chi^2$/NDF: 944421.1/47

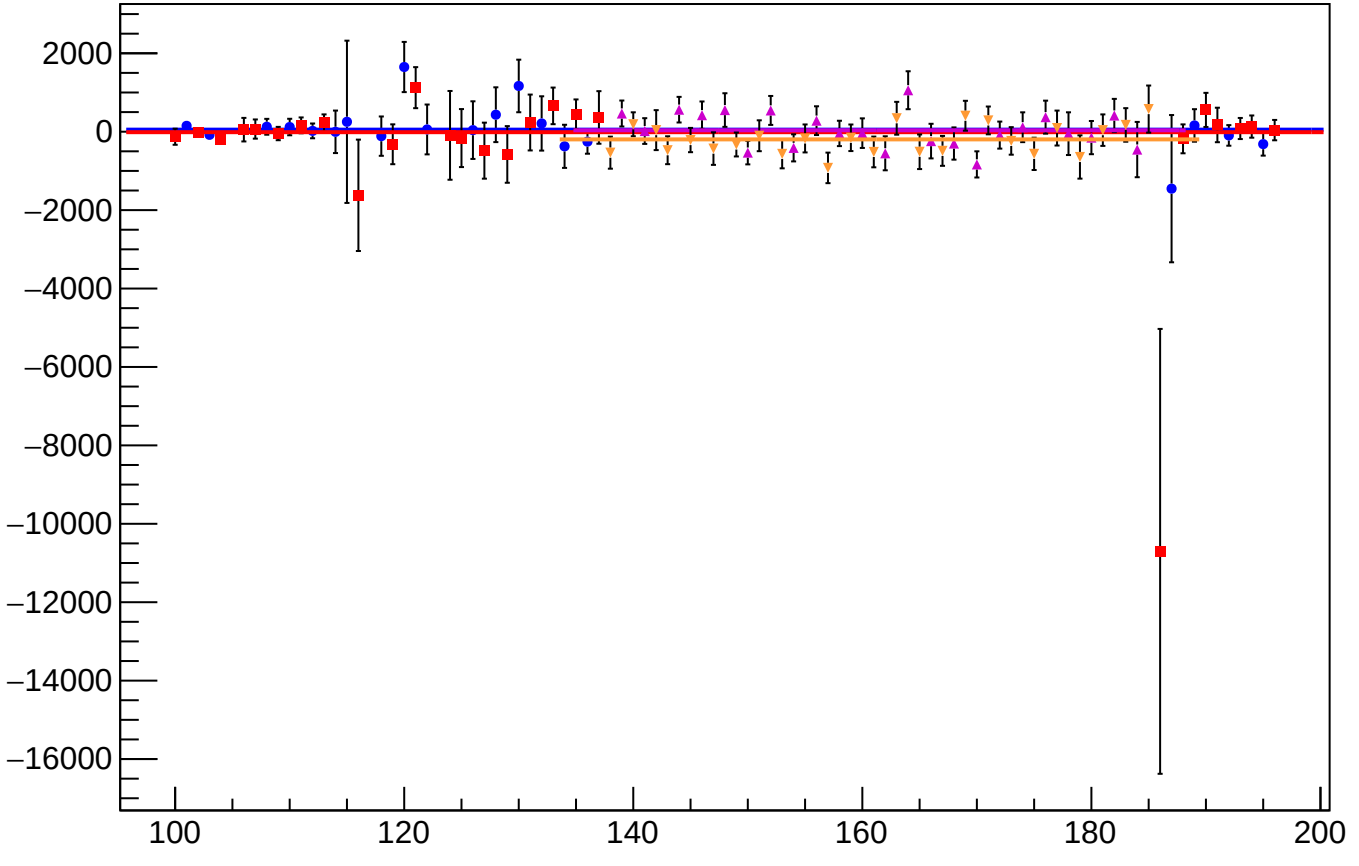
Right: 56.896+/-0.009 $\chi^2$/NDF: 2152812.5/45

In: 61.084+/-0.008 $\chi^2$/NDF:1284088.0/42

Out: 60.684+/-0.008 $\chi^2$/NDF:2148269.8/50

All: 60.873+/-0.006 $\chi^2$/NDF: 3433588.7/93

asym_sam_15_avg_reg_correction_mean vs Slug, Sign Corrected




Right In: 52.441+/-44.942 $\chi^2$/NDF: 18.4/19

Left Out: -195.947+/-77.088 $\chi^2$/NDF:20.6/24

Right Out: -12.096+/-46.915 $\chi^2$/NDF: 24.2/25

Left In: 36.417+/-79.210 $\chi^2$/NDF:31.1/22

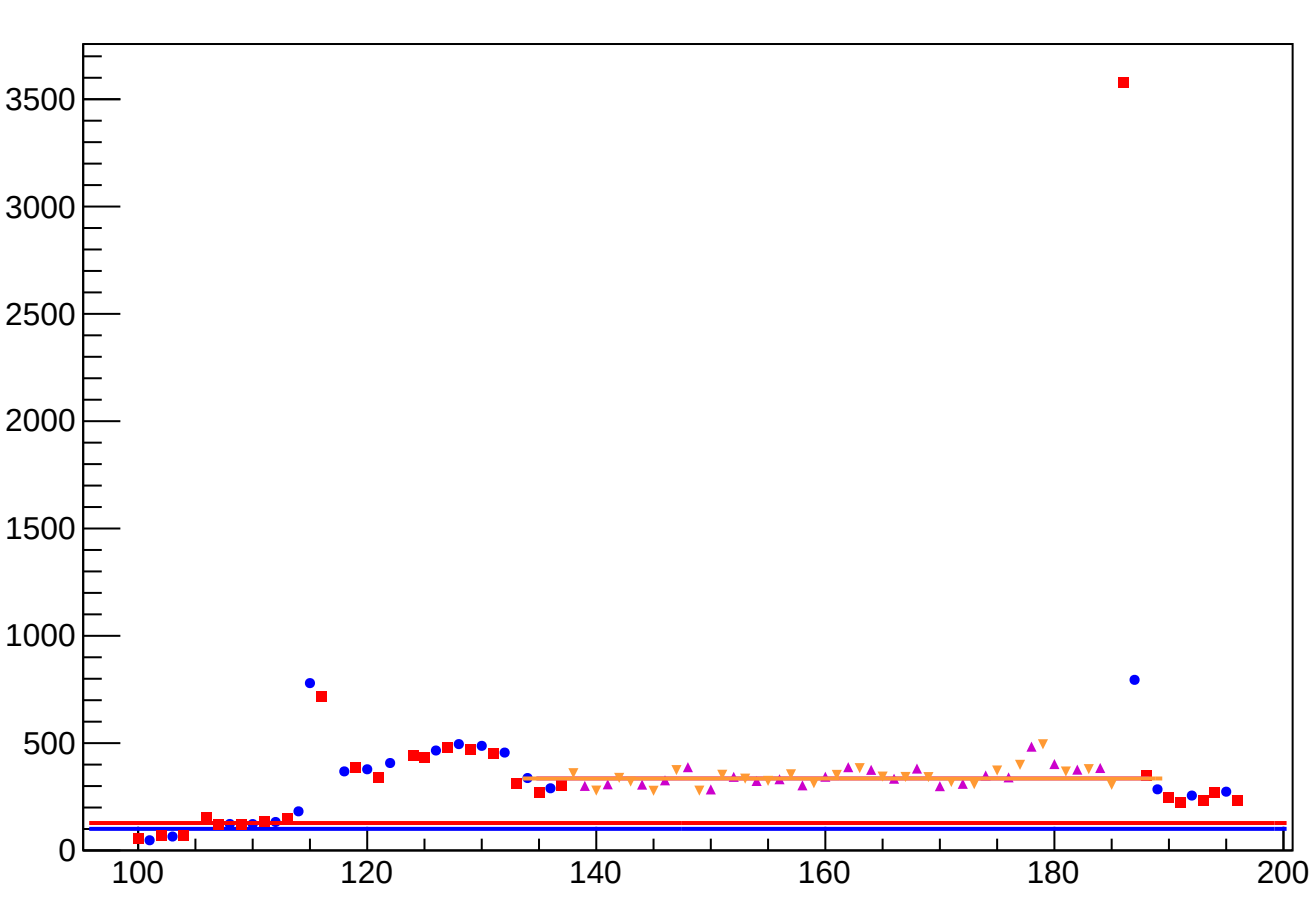
Left: -82.919+/-55.244 $\chi^2$/NDF: 56.1/47

Right: 21.558+/-32.454 $\chi^2$/NDF: 43.5/45

In: 48.539+/-39.088 $\chi^2$/NDF:49.5/42

Out: -61.787+/-40.077 $\chi^2$/NDF:48.9/50

All: -5.247+/-27.983 $\chi^2$/NDF: 102.3/93




Right In: 100.598+/-0.032 $\chi^2$/NDF: 8842396.4/19

Left Out: 335.271+/-0.055 $\chi^2$/NDF:563801.0/24

Right Out: 127.787+/-0.033 $\chi^2$/NDF: 8513419.9/25

Left In: 335.526+/-0.056 $\chi^2$/NDF:495163.6/22

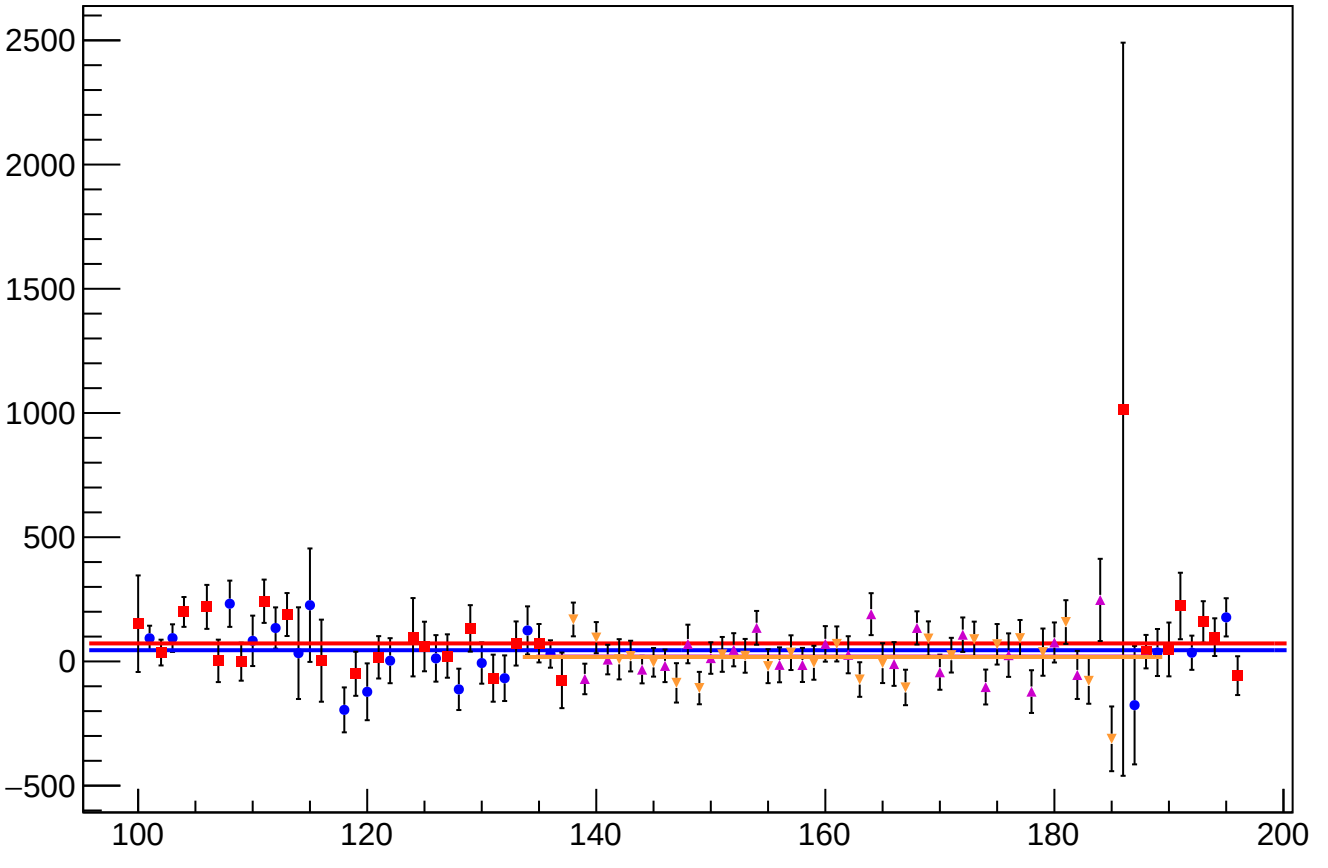
Left: 335.395+/-0.039 $\chi^2$/NDF: 1058975.3/47

Right: 113.609+/-0.023 $\chi^2$/NDF: 17706093.6/45

In: 157.808+/-0.028 $\chi^2$/NDF:22646314.6/42

Out: 183.865+/-0.028 $\chi^2$/NDF:19649889.8/50

All: 170.511+/-0.020 $\chi^2$/NDF: 42729472.1/93




Right In: 45.172+/-18.540 $\chi^2$/NDF: 27.3/19

Left Out: 17.804+/-14.495 $\chi^2$/NDF:31.6/24

Right Out: 72.481+/-17.167 $\chi^2$/NDF: 28.3/25

Left In: 19.642+/-15.040 $\chi^2$/NDF:26.2/22

Left: 18.689+/-10.437 $\chi^2$/NDF: 57.8/47

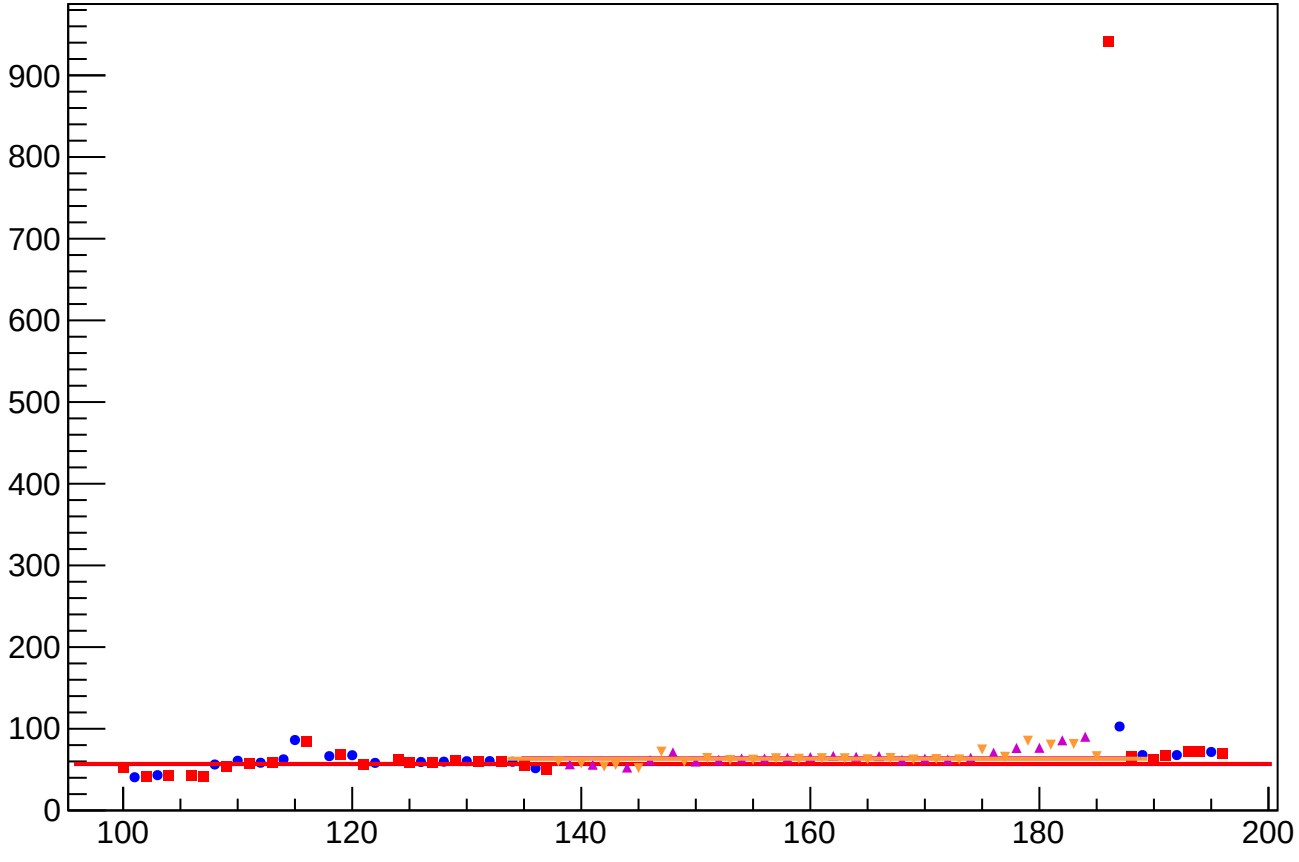
Right: 59.875+/-12.596 $\chi^2$/NDF: 56.7/45

In: 29.775+/-11.680 $\chi^2$/NDF:54.6/42

Out: 40.561+/-11.075 $\chi^2$/NDF:65.7/50

All: 35.454+/-8.037 $\chi^2$/NDF: 120.8/93

# cor_asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 56.776+/-0.013 $\chi^2$/NDF: 659779.6/19

Left Out: 63.312+/-0.010 $\chi^2$/NDF:497429.6/24

Right Out: 56.997+/-0.012 $\chi^2$/NDF: 1493267.0/25

Left In: 63.918+/-0.011 $\chi^2$/NDF:445309.5/22

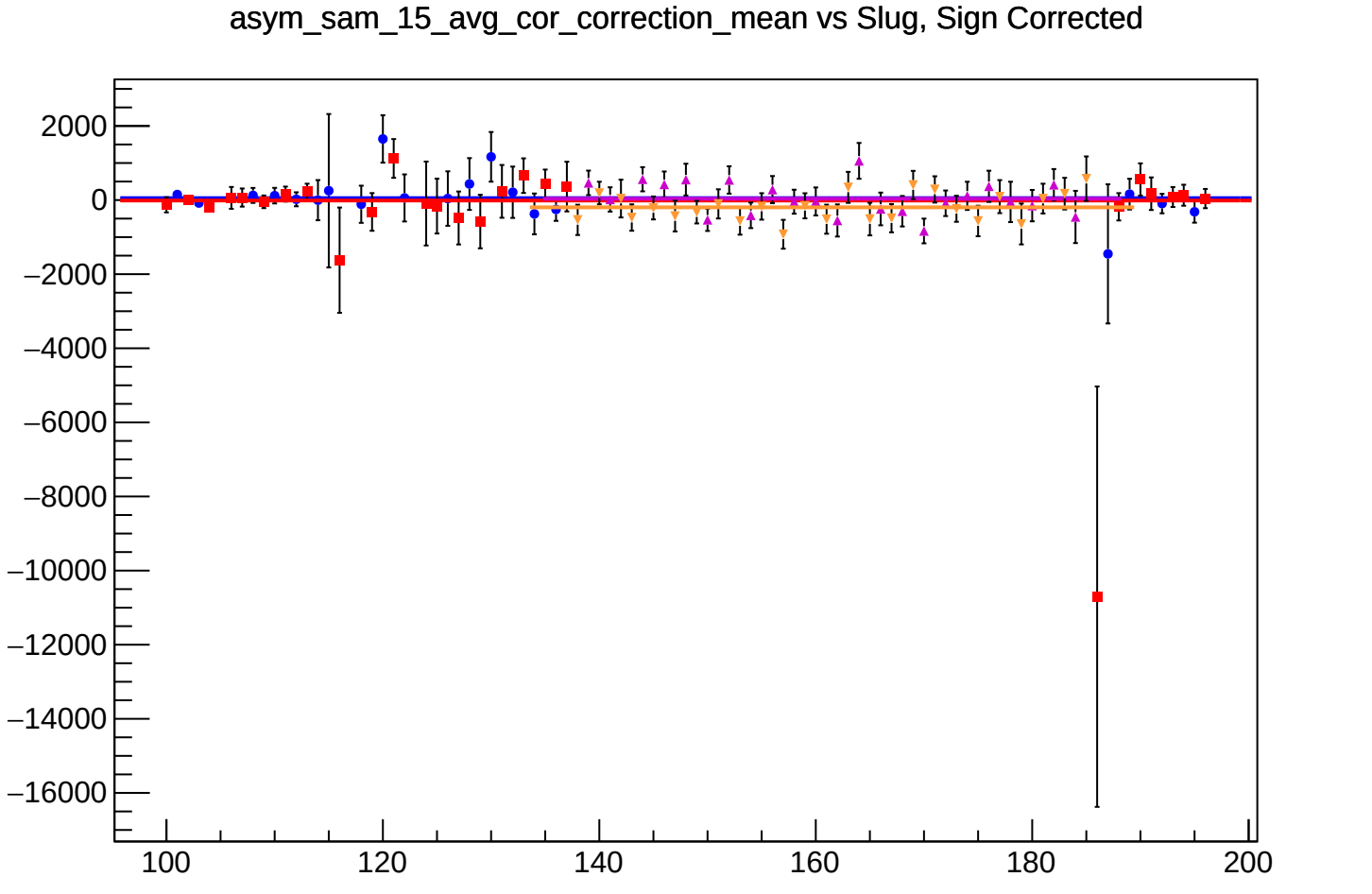
Left: 63.604+/-0.007 $\chi^2$/NDF: 944421.2/47

Right: 56.895+/-0.009 $\chi^2$/NDF: 2153199.4/45

In: 61.084+/-0.008 $\chi^2$/NDF:1284086.9/42

Out: 60.684+/-0.008 $\chi^2$/NDF:2148712.2/50

All: 60.873+/-0.006 $\chi^2$/NDF: 3434032.2/93




Right In: 52.445+/-44.941 $\chi^2$/NDF: 18.4/19

Left Out: -195.942+/-77.088 $\chi^2$/NDF:20.6/24

Right Out: -11.734+/-46.880 $\chi^2$/NDF: 24.2/25

Left In: 36.414+/-79.210 $\chi^2$/NDF:31.1/22

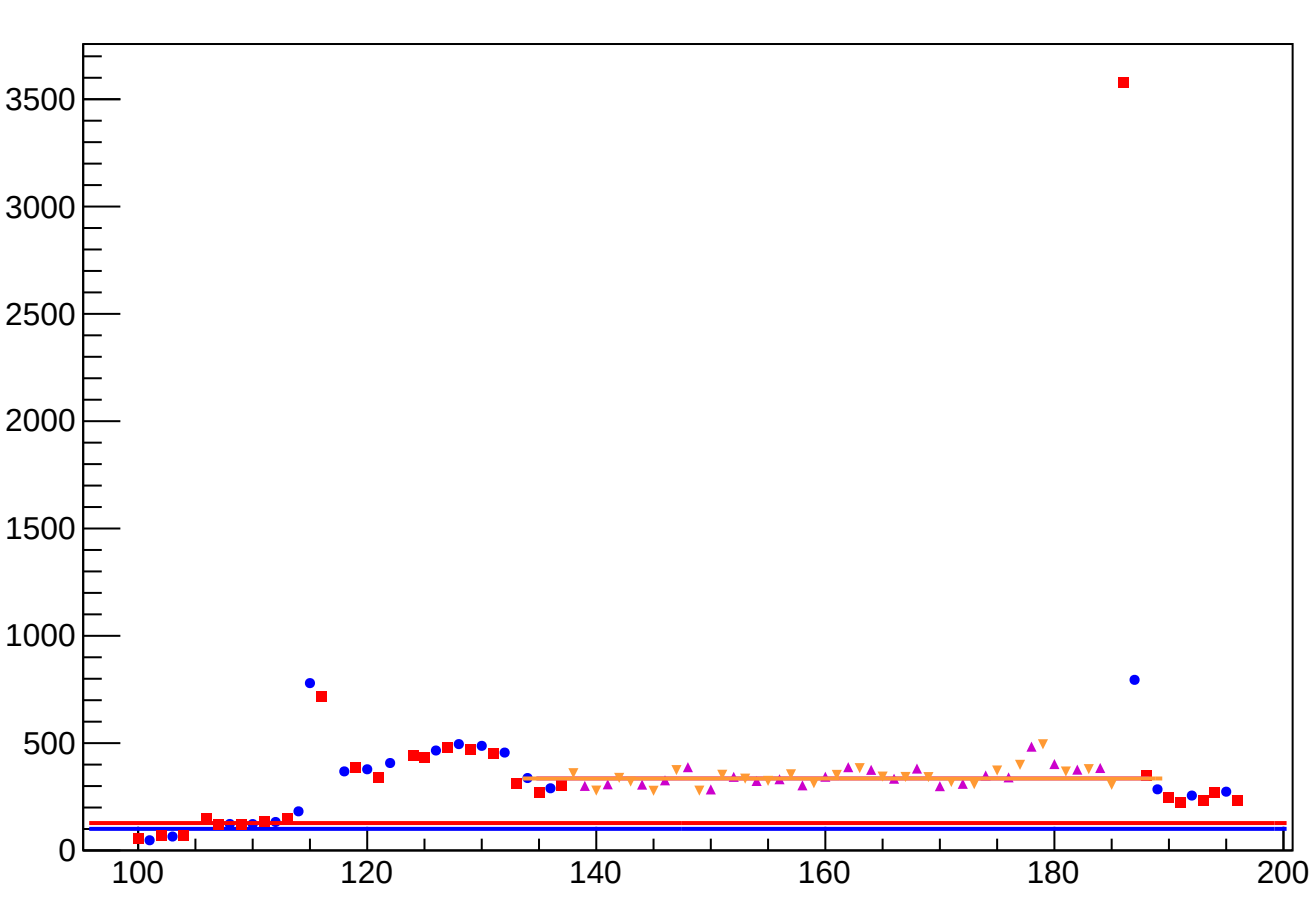
Left: -82.918+/-55.244 $\chi^2$/NDF: 56.1/47

Right: 21.711+/-32.442 $\chi^2$/NDF: 43.5/45

In: 48.541+/-39.088 $\chi^2$/NDF:49.5/42

Out: -61.467+/-40.055 $\chi^2$/NDF:48.9/50

All: -5.119+/-27.975 $\chi^2$/NDF: 102.3/93




Right In: 100.595+/-0.032 $\chi^2$/NDF: 8842540.9/19

Left Out: 335.271+/-0.055 $\chi^2$/NDF:563797.0/24

Right Out: 127.603+/-0.033 $\chi^2$/NDF: 8511424.1/25

Left In: 335.526+/-0.056 $\chi^2$/NDF:495170.0/22

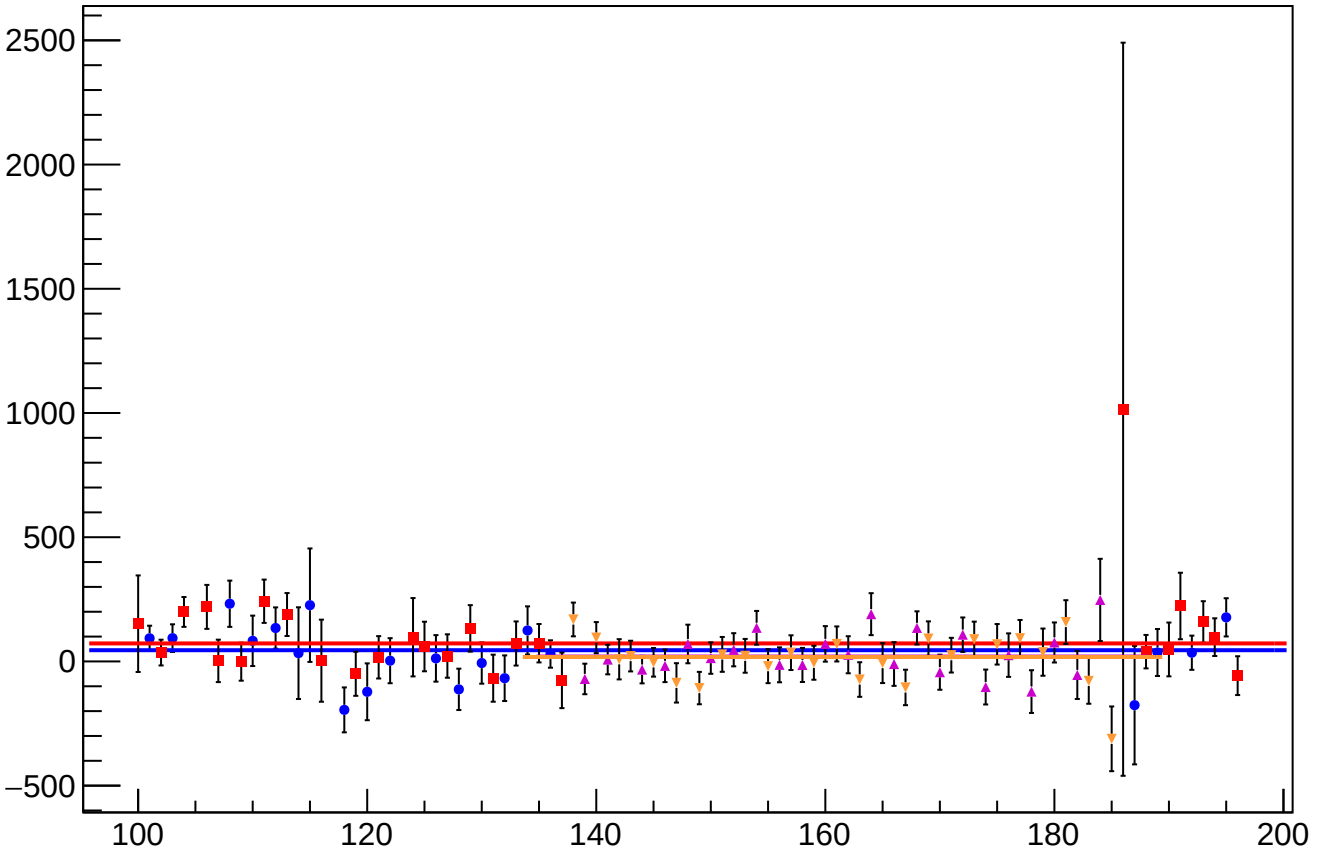
Left: 335.395+/-0.039 $\chi^2$/NDF: 1058977.6/47

Right: 113.529+/-0.023 $\chi^2$/NDF: 17699860.6/45

In: 157.804+/-0.028 $\chi^2$/NDF:22646911.4/42

Out: 183.669+/-0.028 $\chi^2$/NDF:19670913.5/50

All: 170.421+/-0.020 $\chi^2$/NDF: 42745004.7/93




Right In: 45.172+/-18.540 $\chi^2$/NDF: 27.3/19

Left Out: 17.804+/-14.495 $\chi^2$/NDF:31.6/24

Right Out: 72.481+/-17.167 $\chi^2$/NDF: 28.3/25

Left In: 19.642+/-15.040 $\chi^2$/NDF:26.2/22

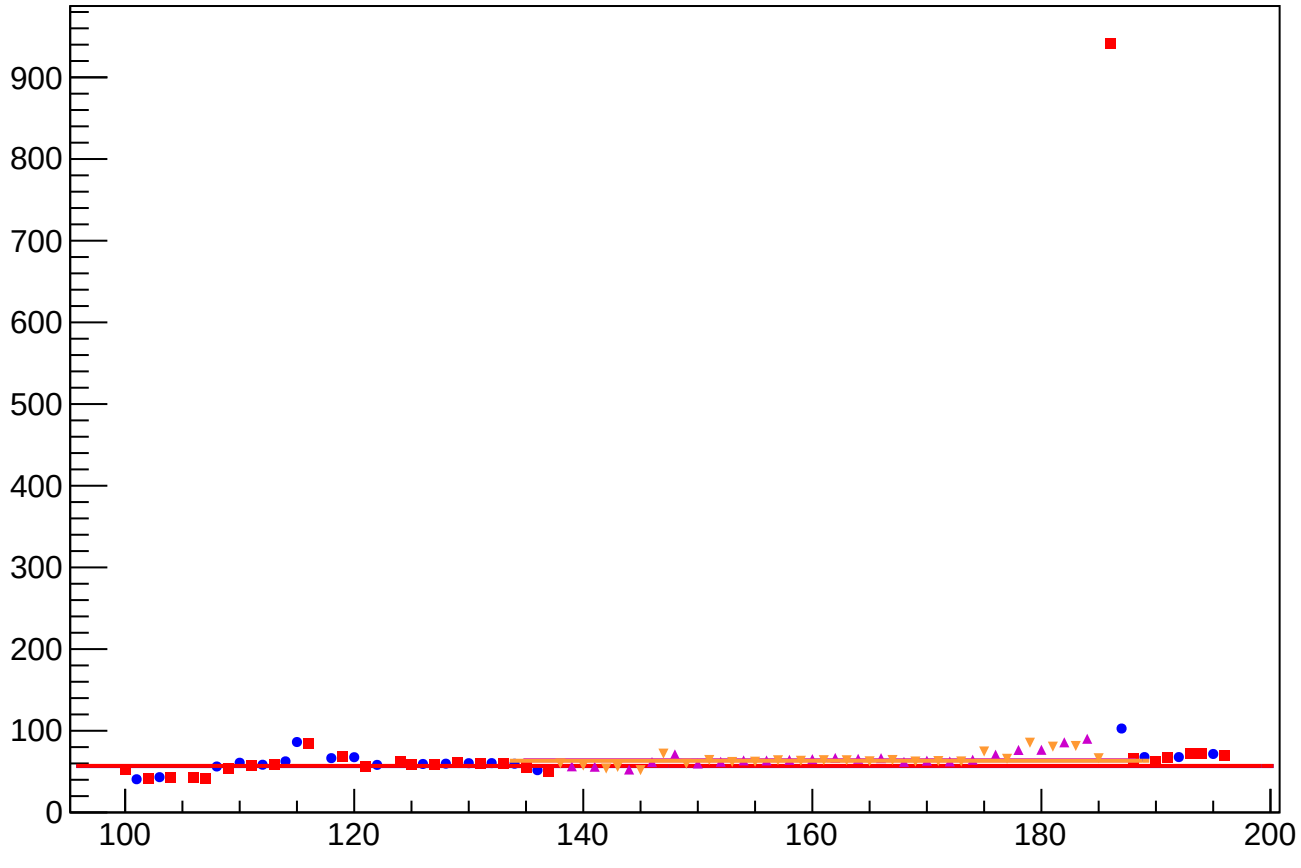
Left: 18.689+/-10.437 $\chi^2$/NDF: 57.8/47

Right: 59.875+/-12.596 $\chi^2$/NDF: 56.7/45

In: 29.775+/-11.680 $\chi^2$/NDF:54.6/42

Out: 40.561+/-11.075 $\chi^2$/NDF:65.7/50

All: 35.454+/-8.037 $\chi^2$/NDF: 120.8/93




Right In: 56.776+/-0.013 $\chi^2$/NDF: 659779.6/19

Left Out: 63.312+/-0.010 $\chi^2$/NDF:497429.6/24

Right Out: 56.997+/-0.012 $\chi^2$/NDF: 1493267.0/25

Left In: 63.918+/-0.011 $\chi^2$/NDF:445309.5/22

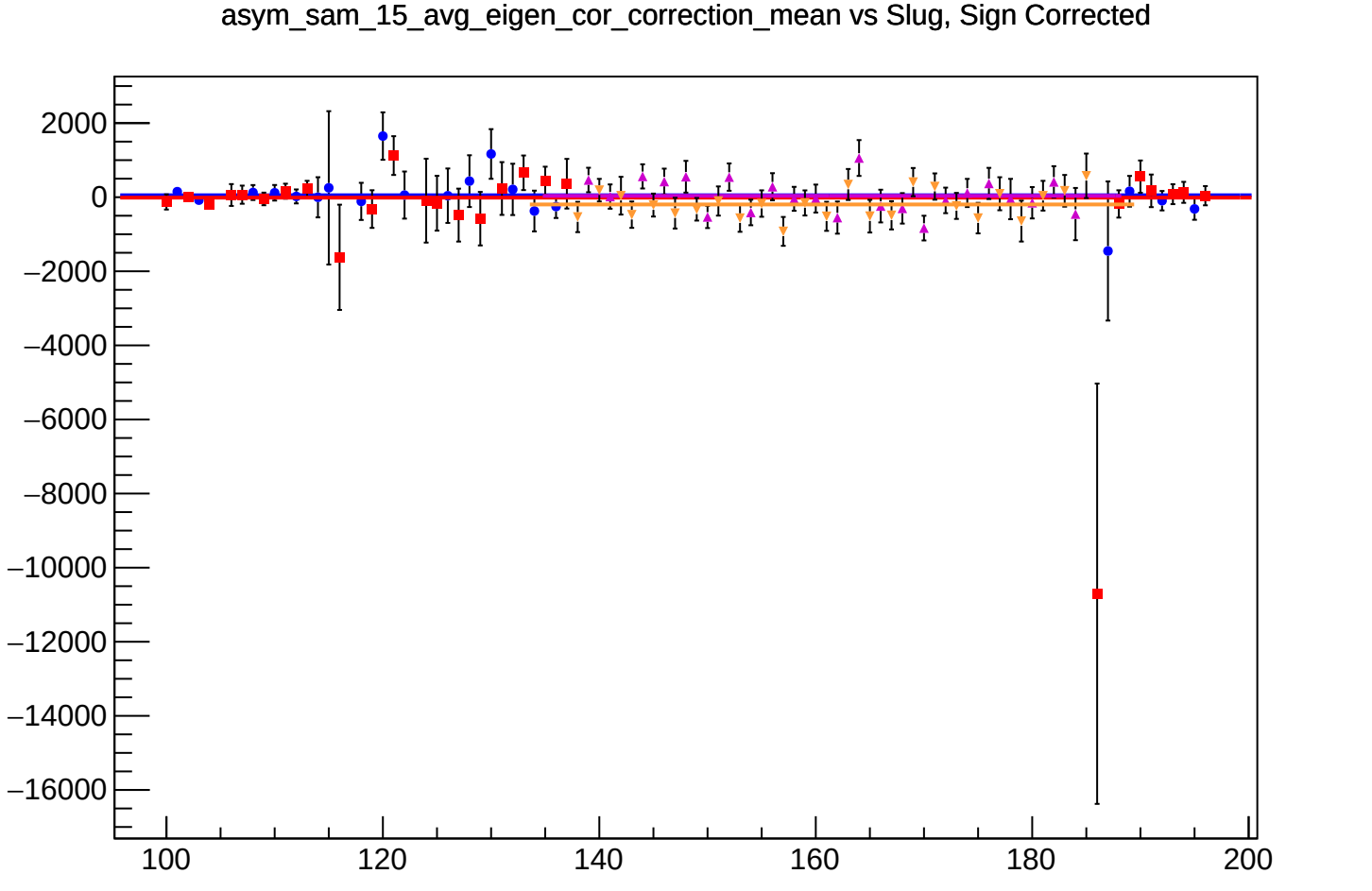
Left: 63.604+/-0.007 $\chi^2$/NDF: 944421.2/47

Right: 56.895+/-0.009 $\chi^2$/NDF: 2153199.4/45

In: 61.084+/-0.008 $\chi^2$/NDF:1284086.9/42

Out: 60.684+/-0.008 $\chi^2$/NDF:2148712.2/50

All: 60.873+/-0.006 $\chi^2$/NDF: 3434032.2/93




Right In: 52.445+/-44.941 $\chi^2$/NDF: 18.4/19

Left Out: -195.942+/-77.088 $\chi^2$/NDF:20.6/24

Right Out: -11.734+/-46.880 $\chi^2$/NDF: 24.2/25

Left In: 36.414+/-79.210 $\chi^2$/NDF:31.1/22

Left: -82.918+/-55.244 $\chi^2$/NDF: 56.1/47

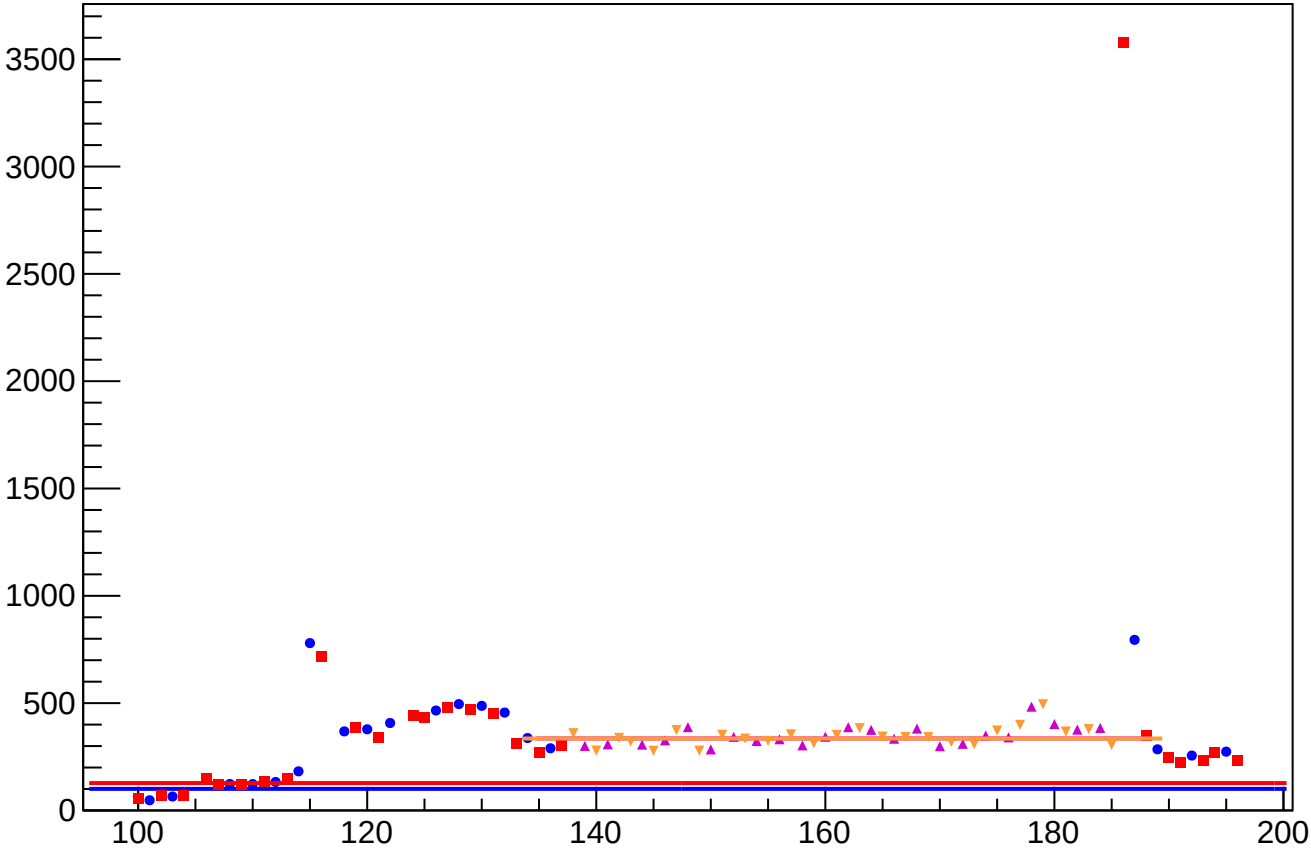
Right: 21.711+/-32.442 $\chi^2$/NDF: 43.5/45

In: 48.541+/-39.088 $\chi^2$/NDF:49.5/42

Out: -61.467+/-40.055 $\chi^2$/NDF:48.9/50

All: -5.119+/-27.975 $\chi^2$/NDF: 102.3/93

asym_sam_15_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 100.595+/-0.032 $\chi^2$/NDF: 8842540.9/19

Left Out: 335.271+/-0.055 $\chi^2$/NDF:563797.0/24

Right Out: 127.603+/-0.033 $\chi^2$/NDF: 8511424.1/25

Left In: 335.526+/-0.056 $\chi^2$/NDF:495170.0/22

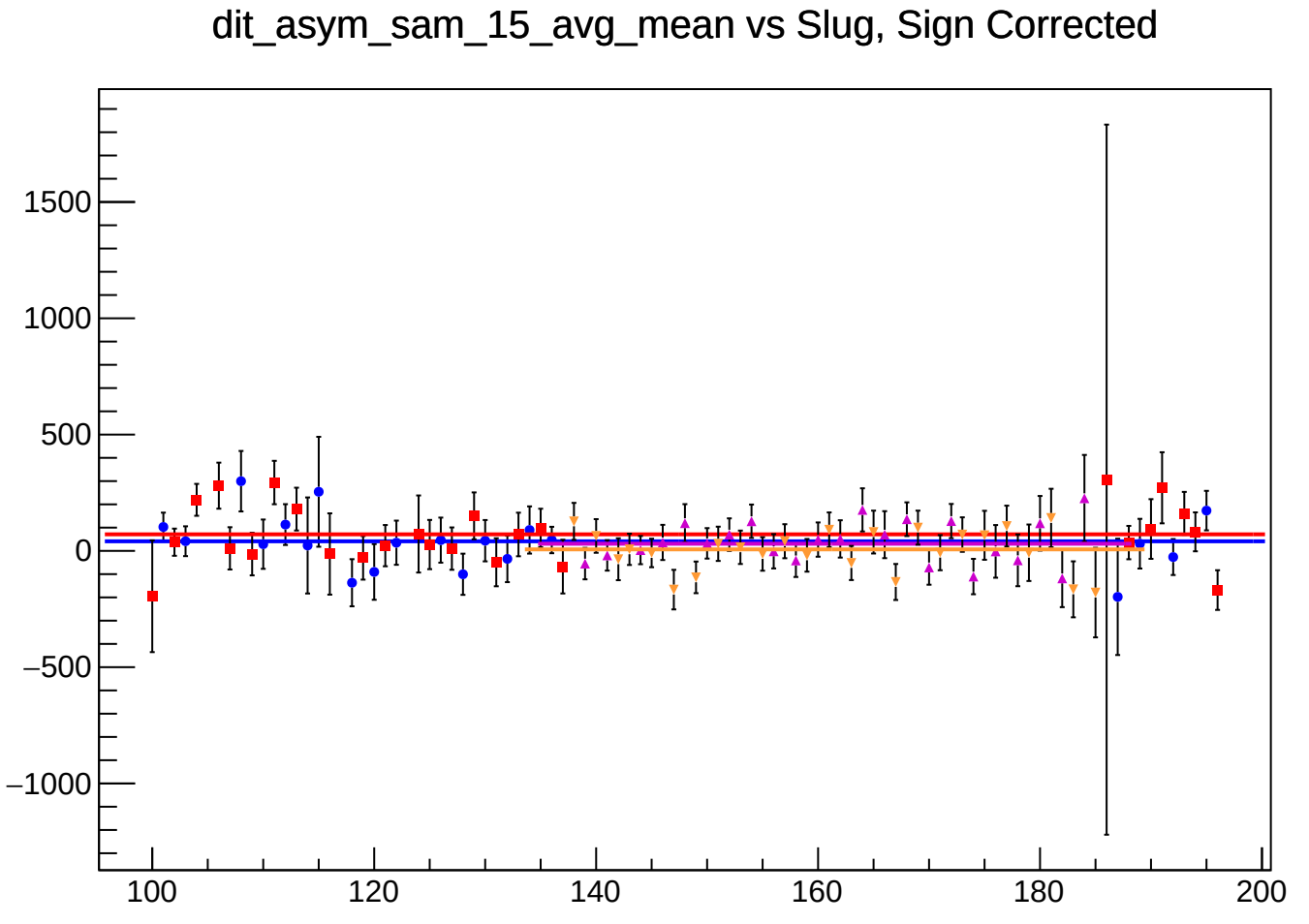
Left: 335.395+/-0.039 $\chi^2$/NDF: 1058977.6/47

Right: 113.529+/-0.023 $\chi^2$/NDF: 17699860.6/45

In: 157.804+/-0.028 $\chi^2$/NDF:22646911.4/42

Out: 183.669+/-0.028 $\chi^2$/NDF:19670913.5/50

All: 170.421+/-0.020 $\chi^2$/NDF: 42745004.7/93




Right In: 41.175+/-20.487 $\chi^2$/NDF: 18.3/19

Left Out: 6.469+/-15.977 $\chi^2$/NDF:25.1/24

Right Out: 71.172+/-18.752 $\chi^2$/NDF: 35.8/25

Left In: 30.662+/-16.503 $\chi^2$/NDF:22.5/22

Left: 18.174+/-11.479 $\chi^2$/NDF: 48.6/47

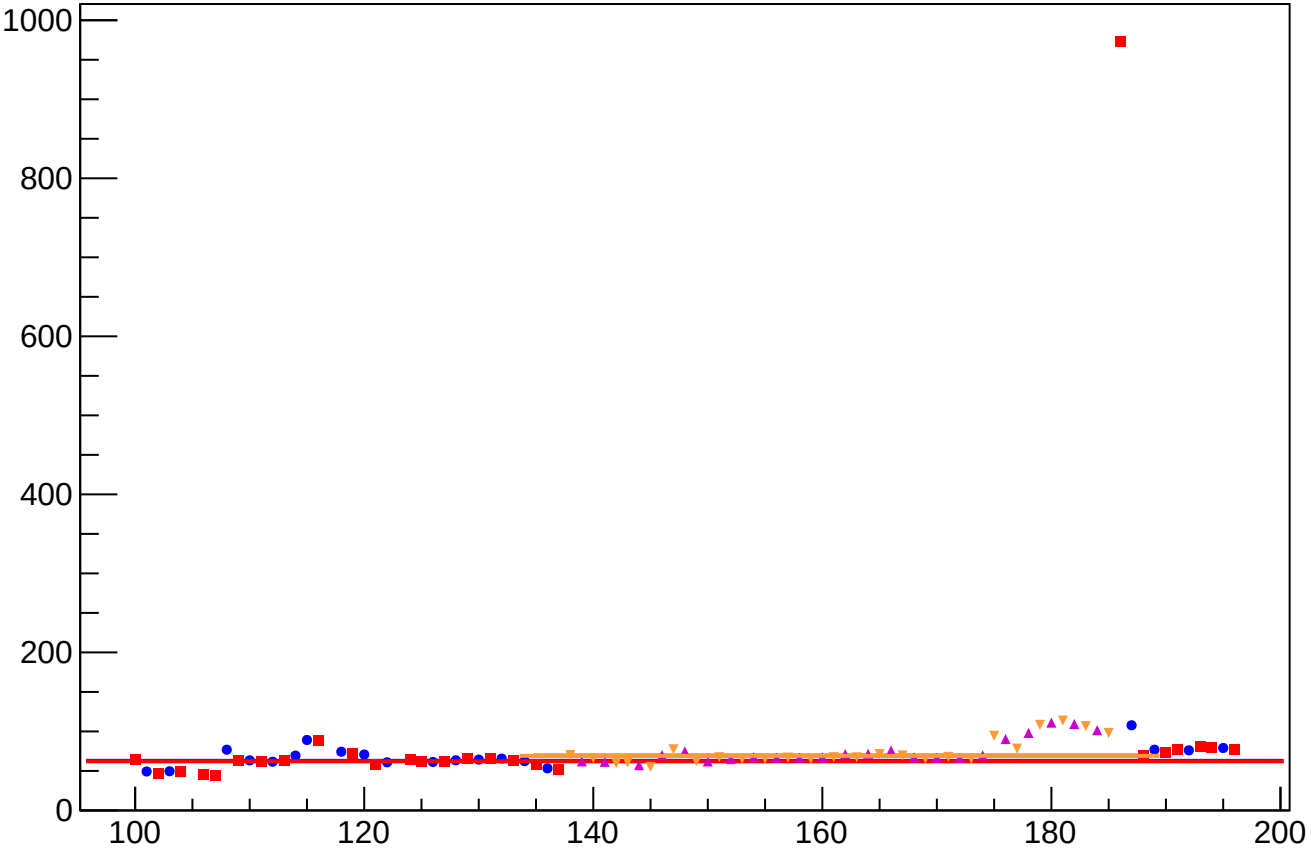
Right: 57.498+/-13.832 $\chi^2$/NDF: 55.3/45

In: 34.799+/-12.852 $\chi^2$/NDF:40.9/42

Out: 33.685+/-12.161 $\chi^2$/NDF:67.8/50

All: 34.211+/-8.833 $\chi^2$/NDF: 108.7/93

# dit_asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 62.779+/-0.014 $\chi^2$/NDF: 558393.8/19

Left Out: 69.078+/-0.011 $\chi^2$/NDF:1074001.6/24

Right Out: 62.185+/-0.013 $\chi^2$/NDF: 1437412.5/25

Left In: 69.436+/-0.012 $\chi^2$/NDF:924607.6/22

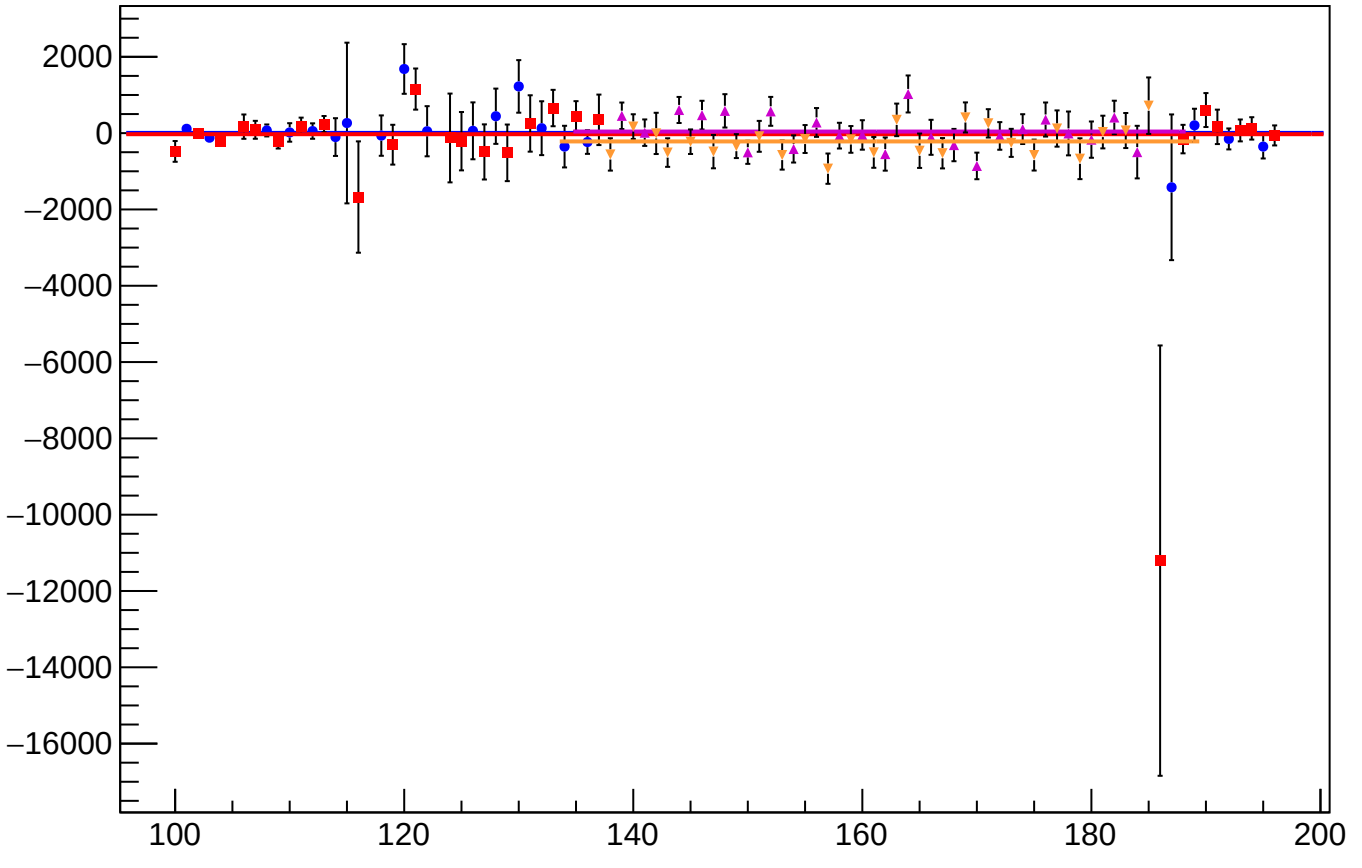
Left: 69.252+/-0.008 $\chi^2$/NDF: 1999094.5/47

Right: 62.456+/-0.010 $\chi^2$/NDF: 1996722.1/45

In: 66.816+/-0.009 $\chi^2$/NDF:1611083.0/42

Out: 66.179+/-0.009 $\chi^2$/NDF:2668029.0/50

All: 66.480+/-0.006 $\chi^2$/NDF: 4281708.8/93




Right In: 6.078+/-51.475 $\chi^2$/NDF: 17.1/19

Left Out: -217.349+/-80.133 $\chi^2$/NDF:19.3/24

Right Out: -28.020+/-49.466 $\chi^2$/NDF: 28.2/25

Left In: 41.512+/-82.256 $\chi^2$/NDF:30.0/22

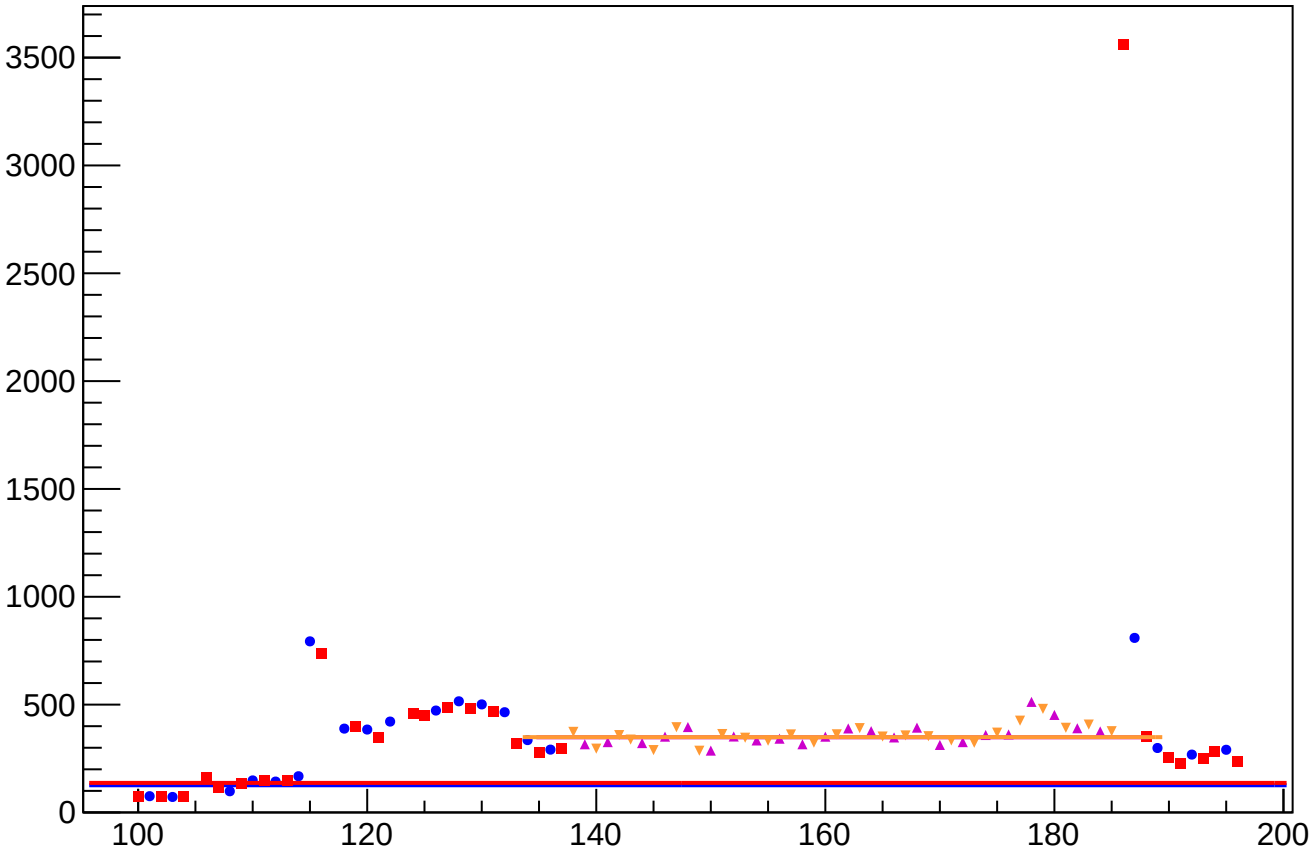
Left: -91.302+/-57.399 $\chi^2$/NDF: 54.4/47

Right: -11.649+/-35.667 $\chi^2$/NDF: 45.6/45

In: 16.049+/-43.635 $\chi^2$/NDF:47.2/42

Out: -80.259+/-42.092 $\chi^2$/NDF:51.6/50

All: -33.838+/-30.294 $\chi^2$/NDF: 101.4/93




Right In: 126.119+/-0.036 $\chi^2$/NDF: 7392202.3/19

Left Out: 349.177+/-0.057 $\chi^2$/NDF:524075.5/24

Right Out: 137.043+/-0.035 $\chi^2$/NDF: 8134434.7/25

Left In: 348.560+/-0.058 $\chi^2$/NDF:525743.6/22

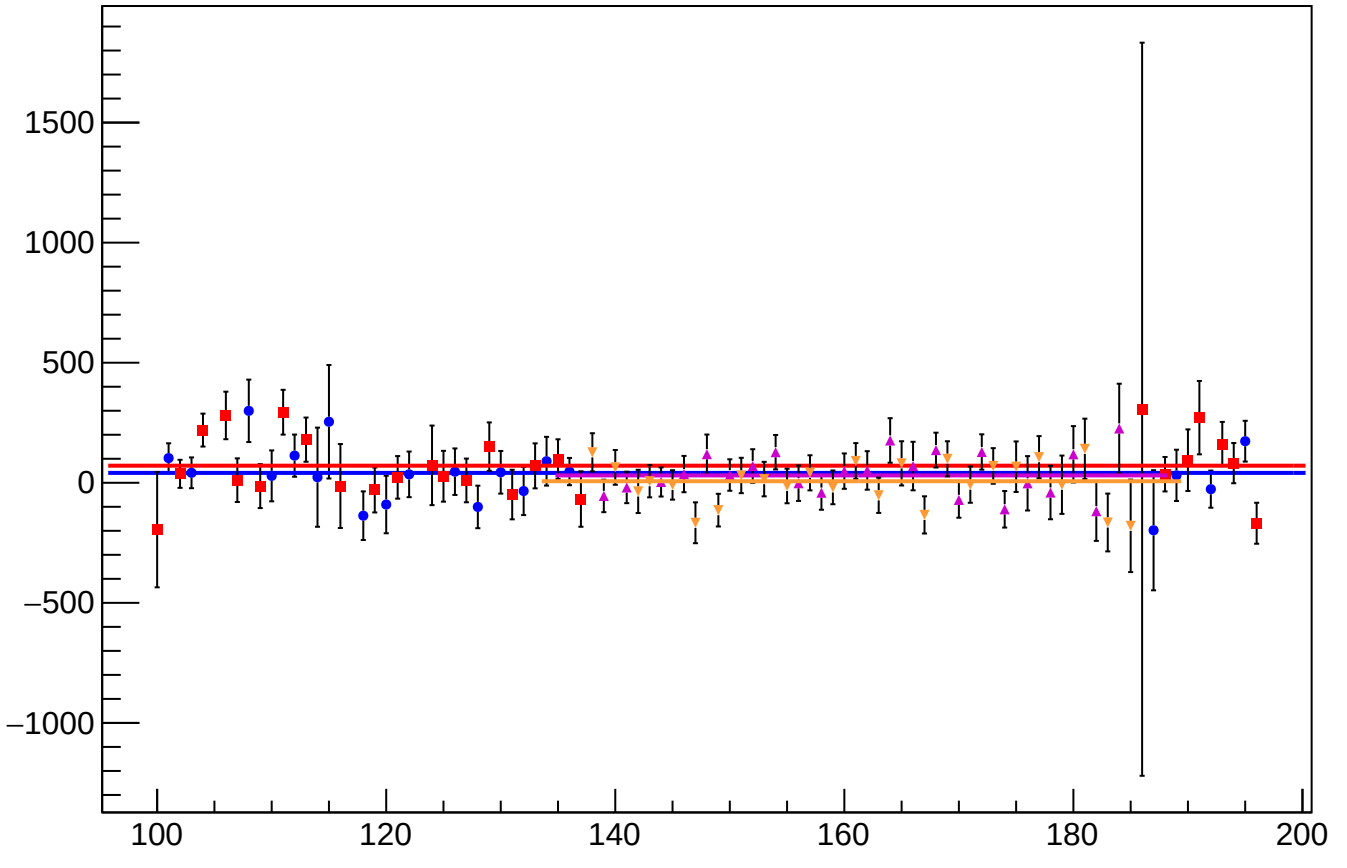
Left: 348.876+/-0.041 $\chi^2$/NDF: 1049876.9/47

Right: 131.798+/-0.025 $\chi^2$/NDF: 15573471.5/45

In: 188.715+/-0.031 $\chi^2$/NDF:18428057.3/42

Out: 195.575+/-0.030 $\chi^2$/NDF:18807209.4/50

All: 192.268+/-0.021 $\chi^2$/NDF: 37260871.6/93




Right In: 41.175+/-20.487 $\chi^2$/NDF: 18.3/19

Left Out: 6.469+/-15.977 $\chi^2$/NDF:25.1/24

Right Out: 71.172+/-18.752 $\chi^2$/NDF: 35.8/25

Left In: 30.662+/-16.503 $\chi^2$/NDF:22.5/22

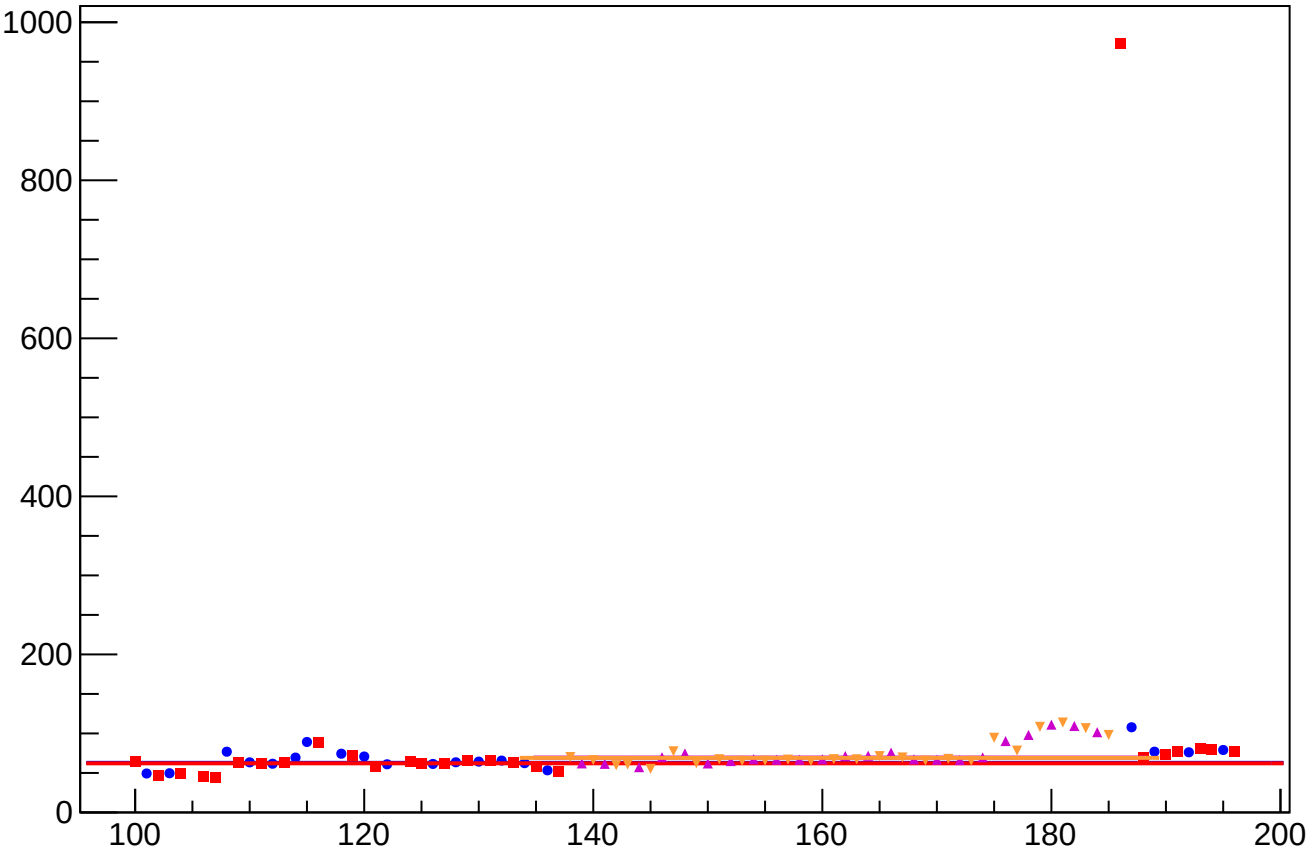
Left: 18.174+/-11.479 $\chi^2$/NDF: 48.6/47

Right: 57.497+/-13.832 $\chi^2$/NDF: 55.3/45

In: 34.799+/-12.852 $\chi^2$/NDF:40.9/42

Out: 33.685+/-12.161 $\chi^2$/NDF:67.8/50

All: 34.211+/-8.833 $\chi^2$/NDF: 108.7/93




Right In: 62.779+/-0.014 $\chi^2$/NDF: 558394.7/19

Left Out: 69.079+/-0.011 $\chi^2$/NDF:1073983.7/24

Right Out: 62.185+/-0.013 $\chi^2$/NDF: 1437410.8/25

Left In: 69.436+/-0.012 $\chi^2$/NDF:924591.6/22

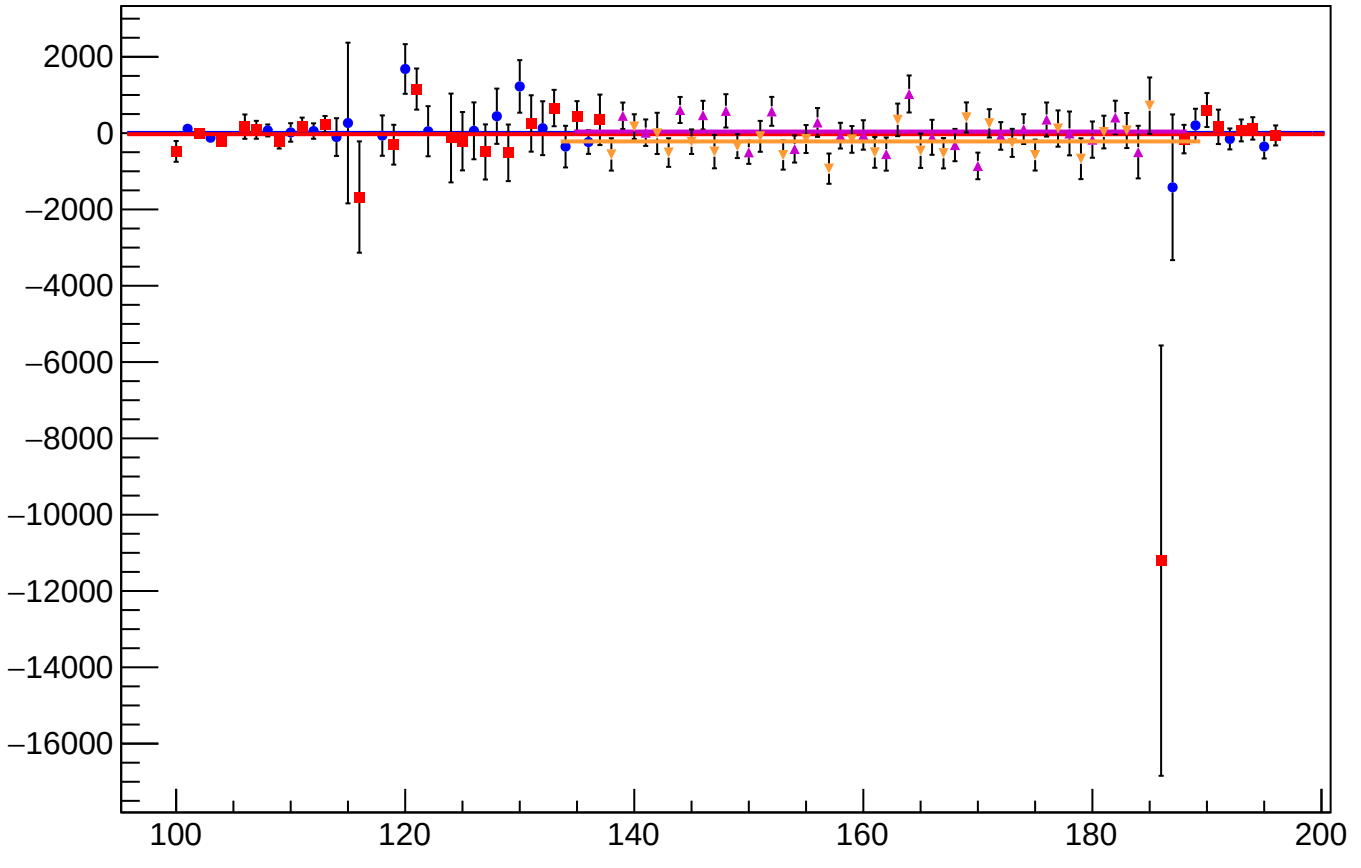
Left: 69.252+/-0.008 $\chi^2$/NDF: 1999060.7/47

Right: 62.456+/-0.010 $\chi^2$/NDF: 1996721.3/45

In: 66.816+/-0.009 $\chi^2$/NDF:1611076.5/42

Out: 66.179+/-0.009 $\chi^2$/NDF:2668016.5/50

All: 66.480+/-0.006 $\chi^2$/NDF: 4281690.2/93




Right In: 6.078+/-51.475 $\chi^2$/NDF: 17.1/19

Left Out: -217.348+/-80.133 $\chi^2$/NDF:19.3/24

Right Out: -28.020+/-49.466 $\chi^2$/NDF: 28.2/25

Left In: 41.512+/-82.256 $\chi^2$/NDF:30.0/22

Left: -91.302+/-57.399 $\chi^2$/NDF: 54.4/47

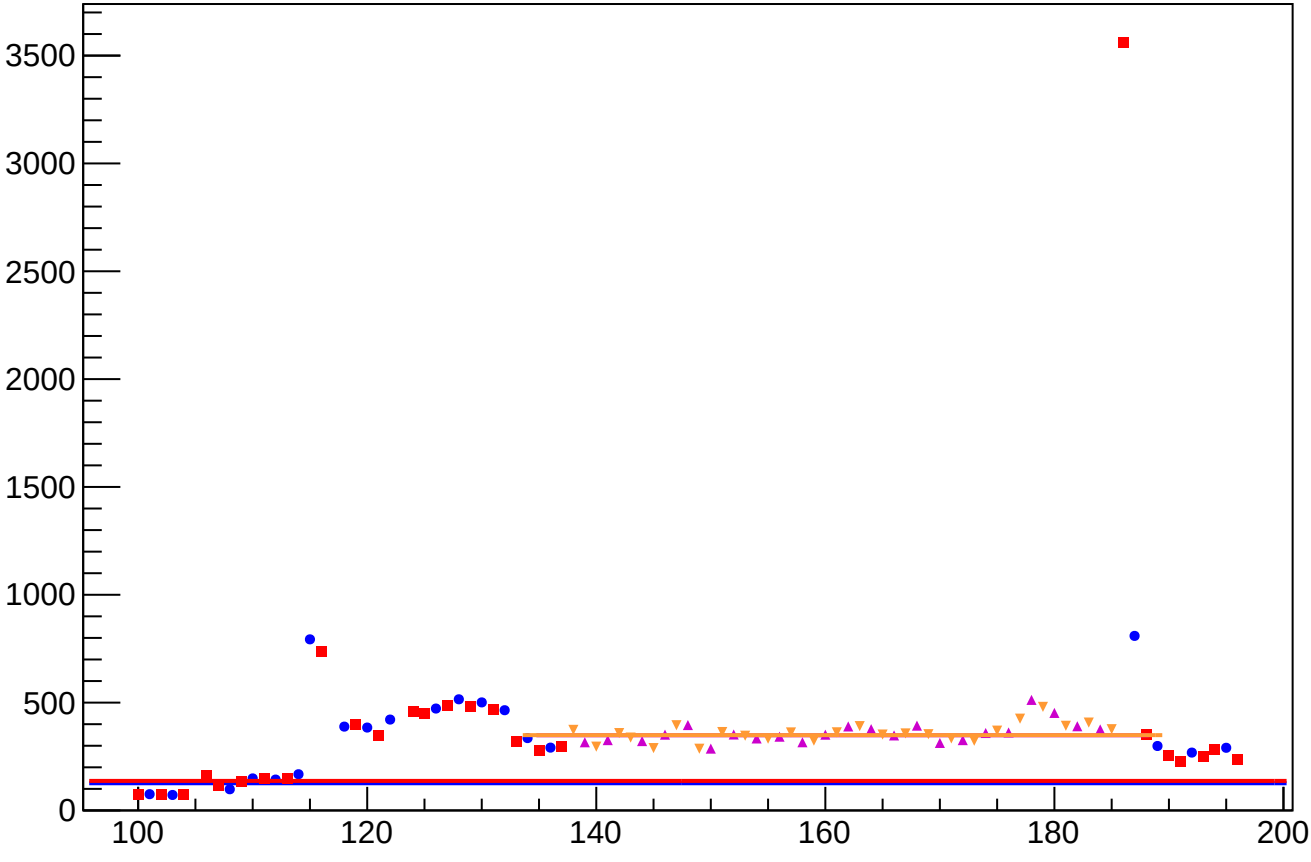
Right: -11.649+/-35.667 $\chi^2$/NDF: 45.6/45

In: 16.049+/-43.635 $\chi^2$/NDF:47.2/42

Out: -80.259+/-42.092 $\chi^2$/NDF:51.6/50

All: -33.837+/-30.294 $\chi^2$/NDF: 101.4/93

asym_sam_15_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 126.118+/-0.036 $\chi^2$/NDF: 7392205.8/19

Left Out: 349.177+/-0.057 $\chi^2$/NDF:524067.1/24

Right Out: 137.043+/-0.035 $\chi^2$/NDF: 8134457.0/25

Left In: 348.560+/-0.058 $\chi^2$/NDF:525736.6/22

Left: 348.877+/-0.041 $\chi^2$/NDF: 1049861.4/47

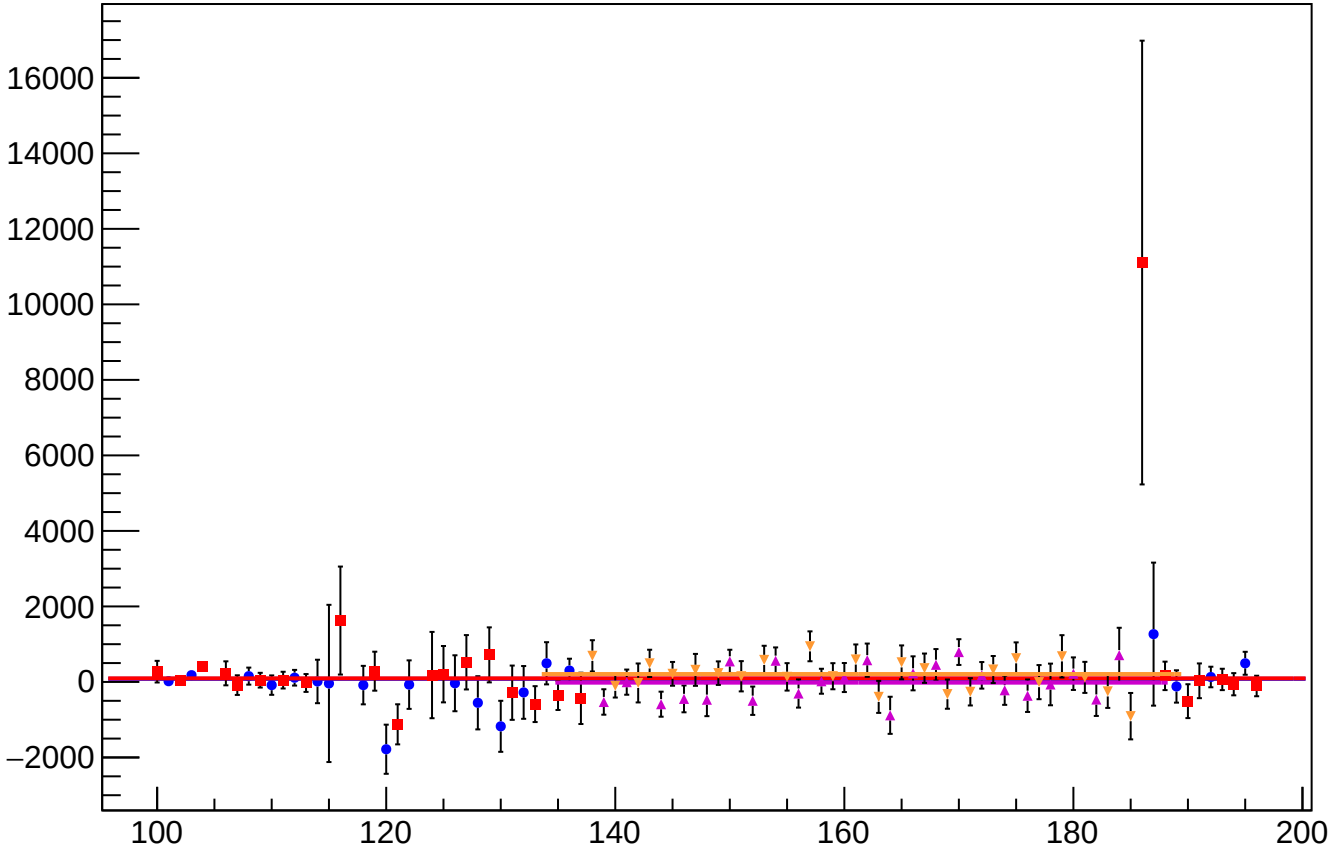
Right: 131.798+/-0.025 $\chi^2$/NDF: 15573496.2/45

In: 188.715+/-0.031 $\chi^2$/NDF:18428121.4/42

Out: 195.574+/-0.030 $\chi^2$/NDF:18807304.9/50

All: 192.268+/-0.021 $\chi^2$/NDF: 37261030.3/93

# asym_sam_15_avg_mean vs Slug, Sign Corrected




Right In: 82.791+/-56.283 $\chi^2$/NDF: 18.3/19

Left Out: 209.819+/-78.511 $\chi^2$/NDF:21.4/24

Right Out: 94.764+/-53.281 $\chi^2$/NDF: 27.5/25

Left In: -18.738+/-80.699 $\chi^2$/NDF:32.0/22

Left: 98.681+/-56.273 $\chi^2$/NDF: 57.6/47

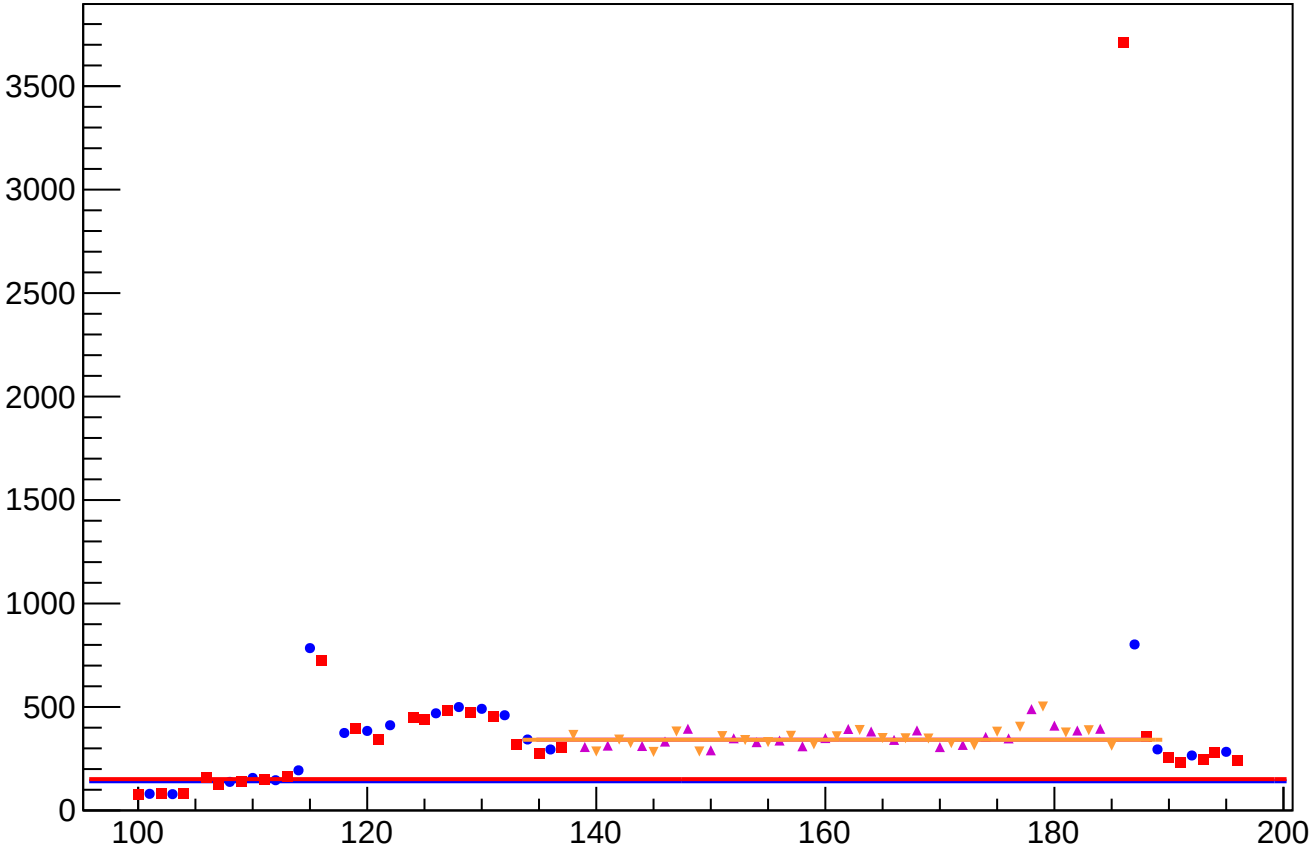
Right: 89.106+/-38.693 $\chi^2$/NDF: 45.9/45

In: 49.566+/-46.164 $\chi^2$/NDF:51.4/42

Out: 131.044+/-44.087 $\chi^2$/NDF:50.4/50

All: 92.179+/-31.883 $\chi^2$/NDF: 103.5/93

# asym_sam_15_avg_rms vs Slug, Sign Corrected




Right In: 141.015+/-0.040 $\chi^2$/NDF: 6705784.4/19

Left Out: 341.585+/-0.056 $\chi^2$/NDF:554287.8/24

Right Out: 151.401+/-0.038 $\chi^2$/NDF: 7270211.0/25

Left In: 341.943+/-0.057 $\chi^2$/NDF:485509.1/22

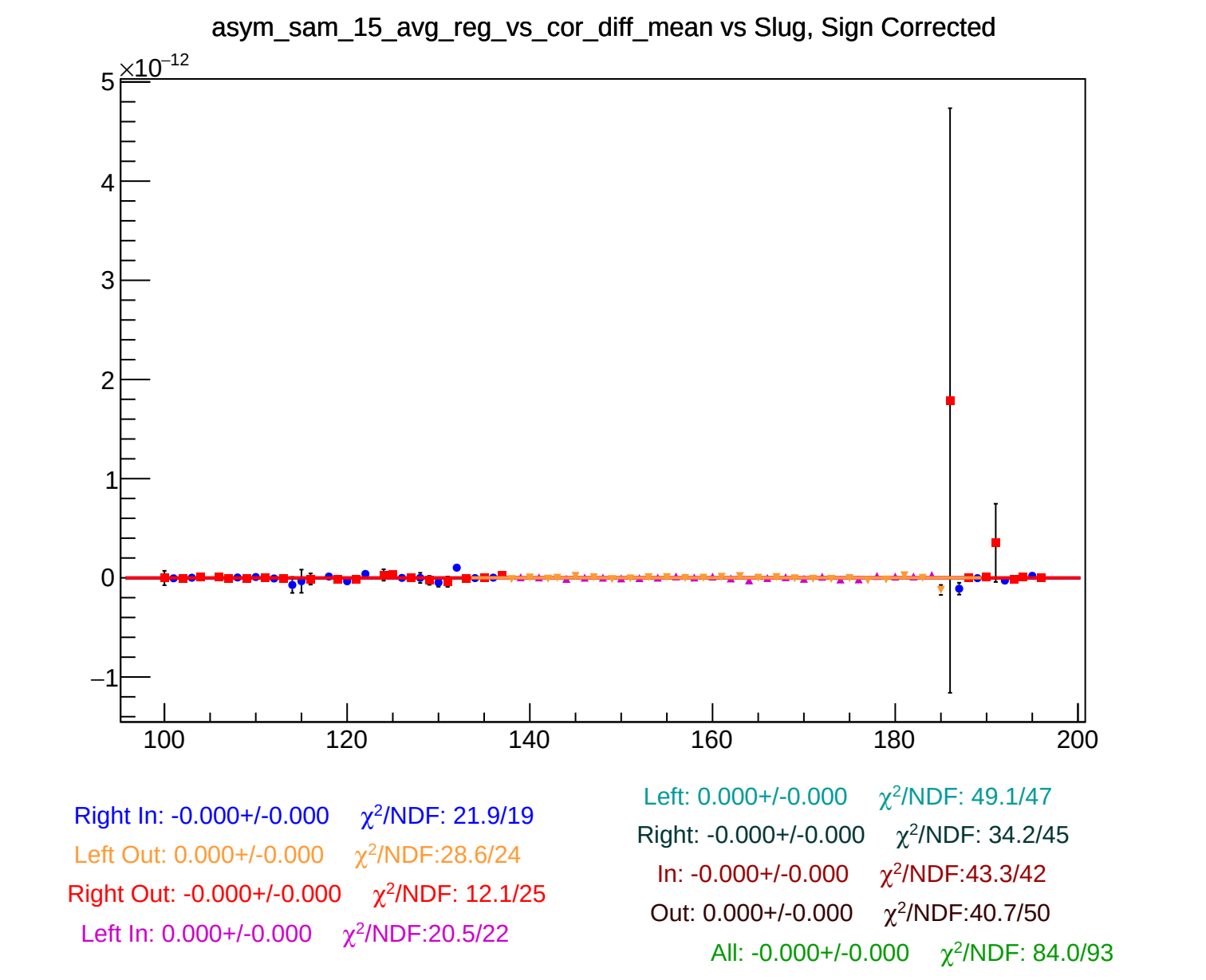
Left: 341.759+/-0.040 $\chi^2$/NDF: 1039817.1/47

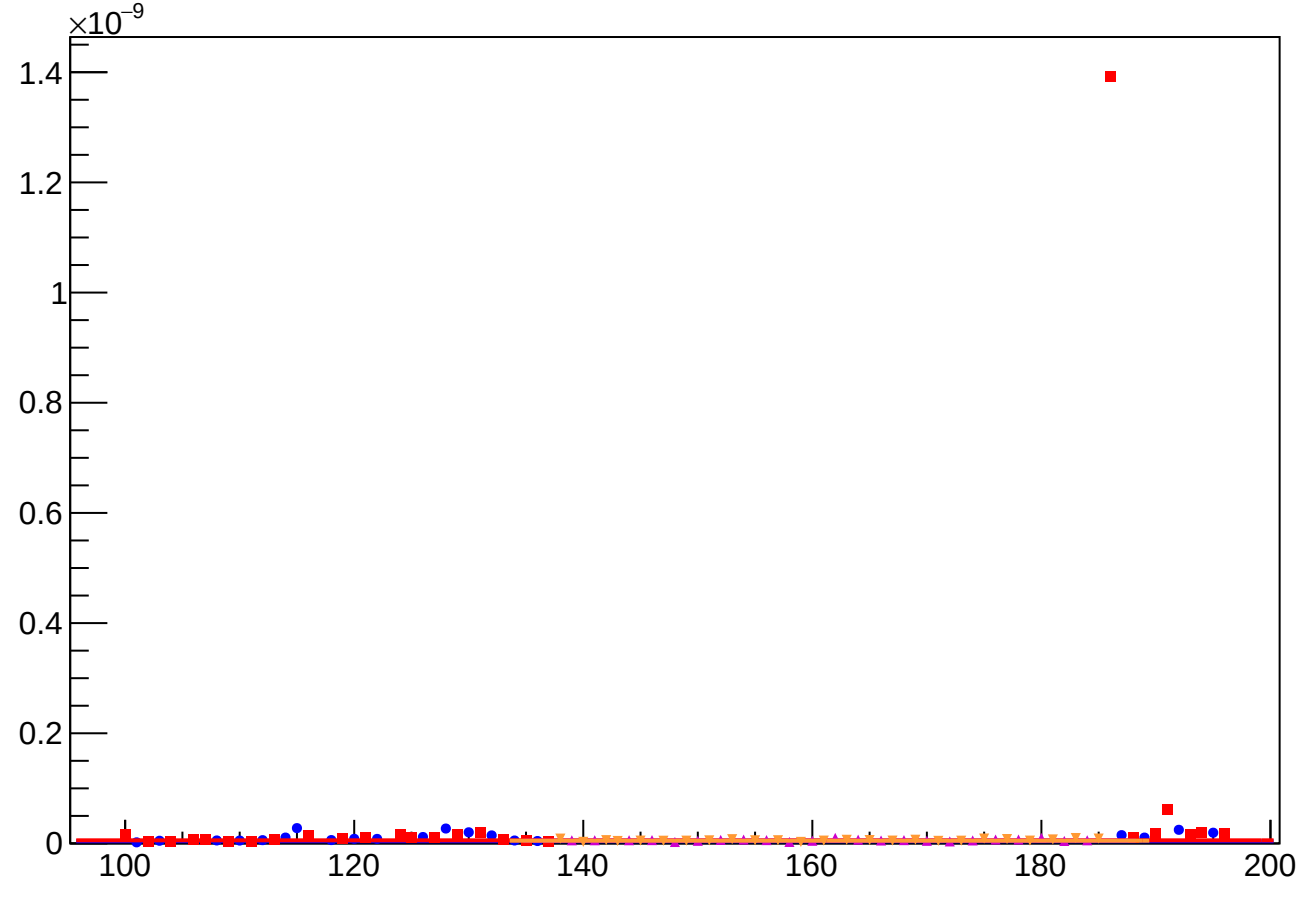
Right: 146.493+/-0.027 $\chi^2$/NDF: 14011908.8/45

In: 206.768+/-0.033 $\chi^2$/NDF:15532467.1/42

Out: 211.370+/-0.031 $\chi^2$/NDF:15859704.2/50

All: 209.175+/-0.023 $\chi^2$/NDF: 31402568.9/93


asym_sam_15_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
5
4
3
2
1
0
−1
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 21.9/19
Left Out: 0.000+/-0.000 χ²/NDF:28.6/24
Right Out: -0.000+/-0.000 χ²/NDF: 12.1/25
Left In: 0.000+/-0.000 χ²/NDF:20.5/22
Left: 0.000+/-0.000 χ²/NDF: 49.1/47
Right: -0.000+/-0.000 χ²/NDF: 34.2/45
In: -0.000+/-0.000 χ²/NDF:43.3/42
Out: 0.000+/-0.000 χ²/NDF:40.7/50
All: -0.000+/-0.000 χ²/NDF: 84.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3504316.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1294137.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3266168.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1225248.2/22

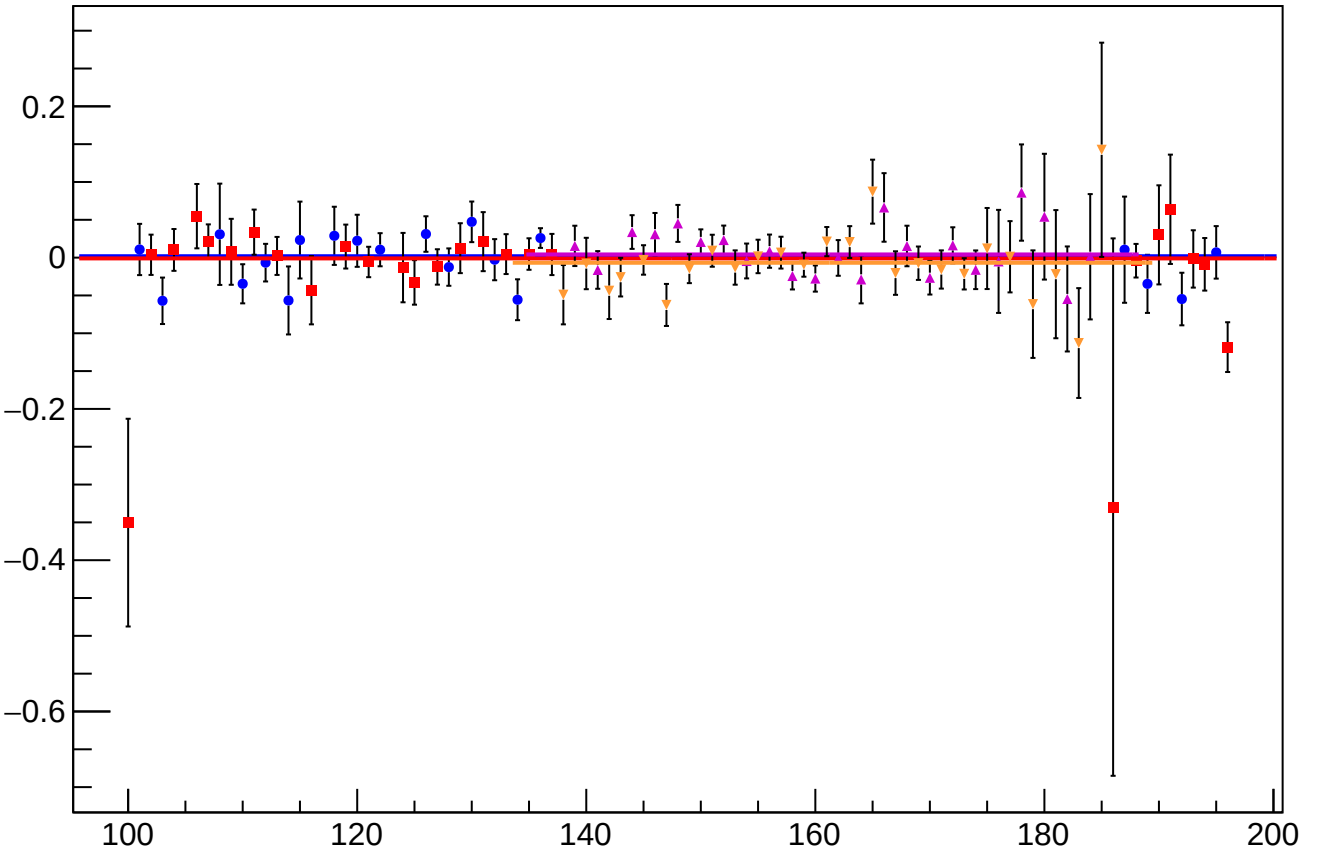
Left: 0.000+/-0.000 $\chi^2$/NDF: 2519997.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 7128723.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:4919517.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:4619024.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 9693367.2/93




Right In: 0.002+/-0.006 $\chi^2$/NDF: 25.2/19

Left Out: -0.007+/-0.005 $\chi^2$/NDF:21.8/24

Right Out: -0.001+/-0.006 $\chi^2$/NDF: 28.8/25

Left In: 0.004+/-0.005 $\chi^2$/NDF:23.2/22

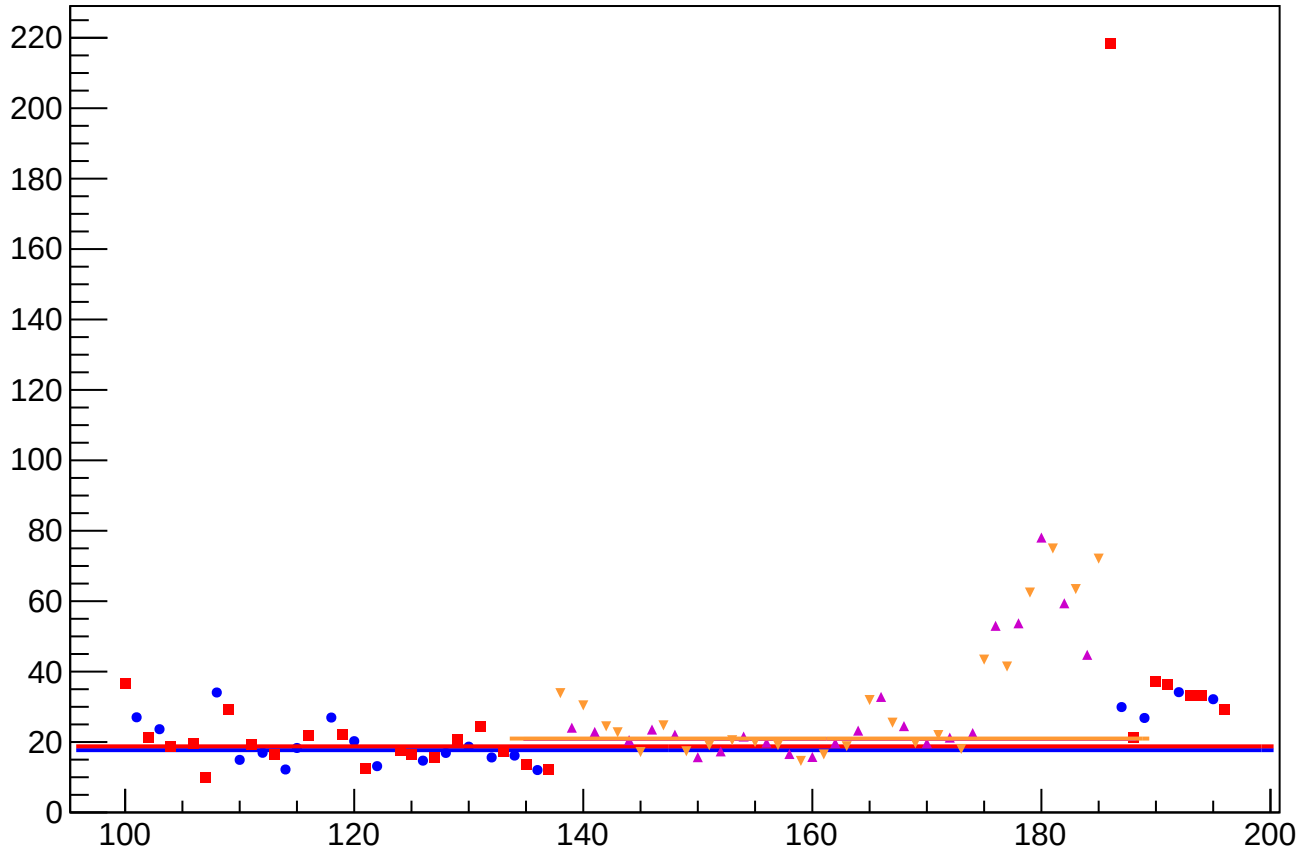
Left: -0.001+/-0.004 $\chi^2$/NDF: 47.1/47

Right: 0.000+/-0.004 $\chi^2$/NDF: 54.1/45

In: 0.003+/-0.004 $\chi^2$/NDF:48.5/42

Out: -0.004+/-0.004 $\chi^2$/NDF:51.0/50

All: -0.001+/-0.003 $\chi^2$/NDF: 101.3/93




Right In: 17.695+/-0.004 $\chi^2$/NDF: 2015612.4/19

Left Out: 20.981+/-0.004 $\chi^2$/NDF:4467011.5/24

Right Out: 18.776+/-0.004 $\chi^2$/NDF: 2819507.1/25

Left In: 20.868+/-0.004 $\chi^2$/NDF:3534877.7/22

Left: 20.925+/-0.003 $\chi^2$/NDF: 8002354.8/47

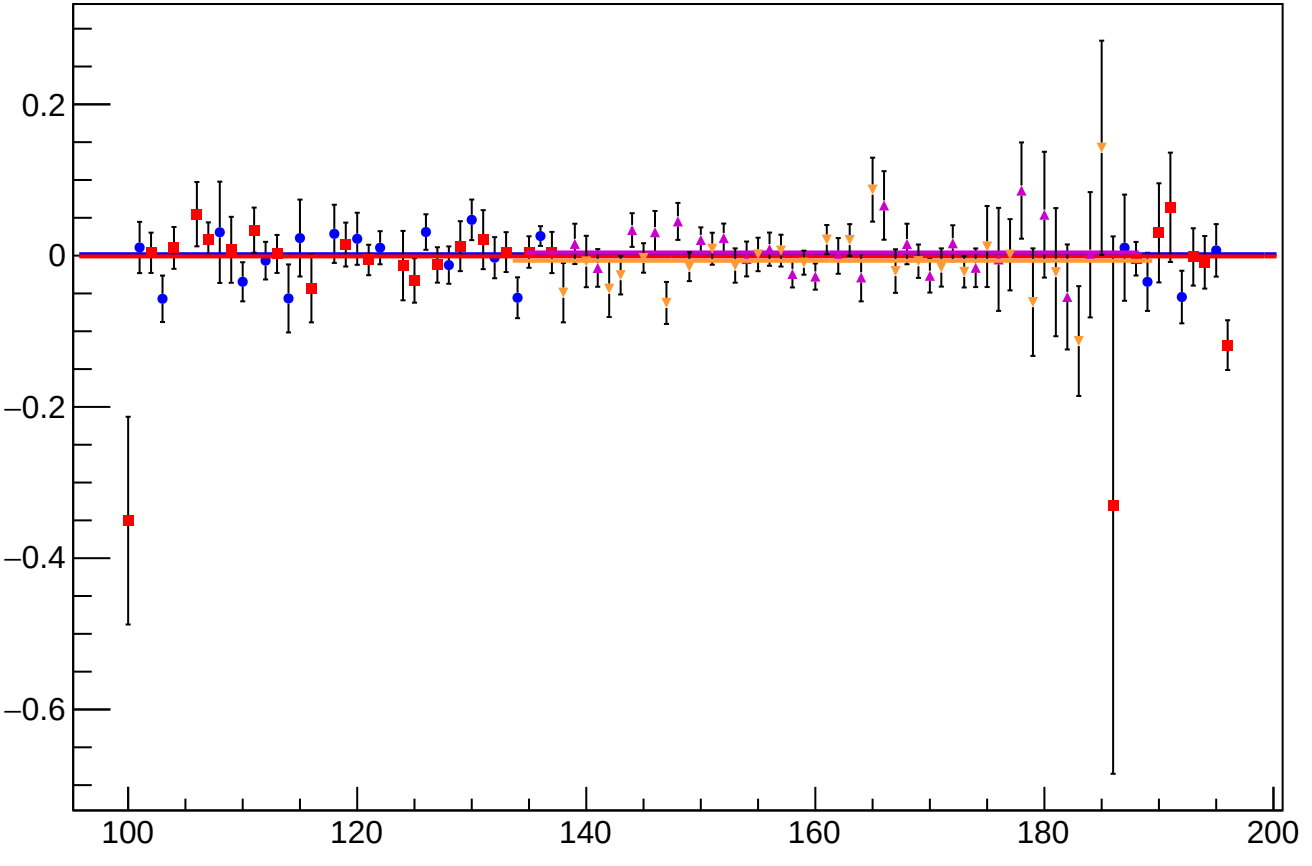
Right: 18.255+/-0.003 $\chi^2$/NDF: 4866261.5/45

In: 19.539+/-0.003 $\chi^2$/NDF:5851591.8/42

Out: 20.036+/-0.003 $\chi^2$/NDF:7440373.5/50

All: 19.794+/-0.002 $\chi^2$/NDF: 13307527.0/93

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.006 $\chi^2$/NDF: 25.2/19

Left Out: -0.007+/-0.005 $\chi^2$/NDF:21.8/24

Right Out: -0.001+/-0.006 $\chi^2$/NDF: 28.8/25

Left In: 0.004+/-0.005 $\chi^2$/NDF:23.2/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 47.1/47

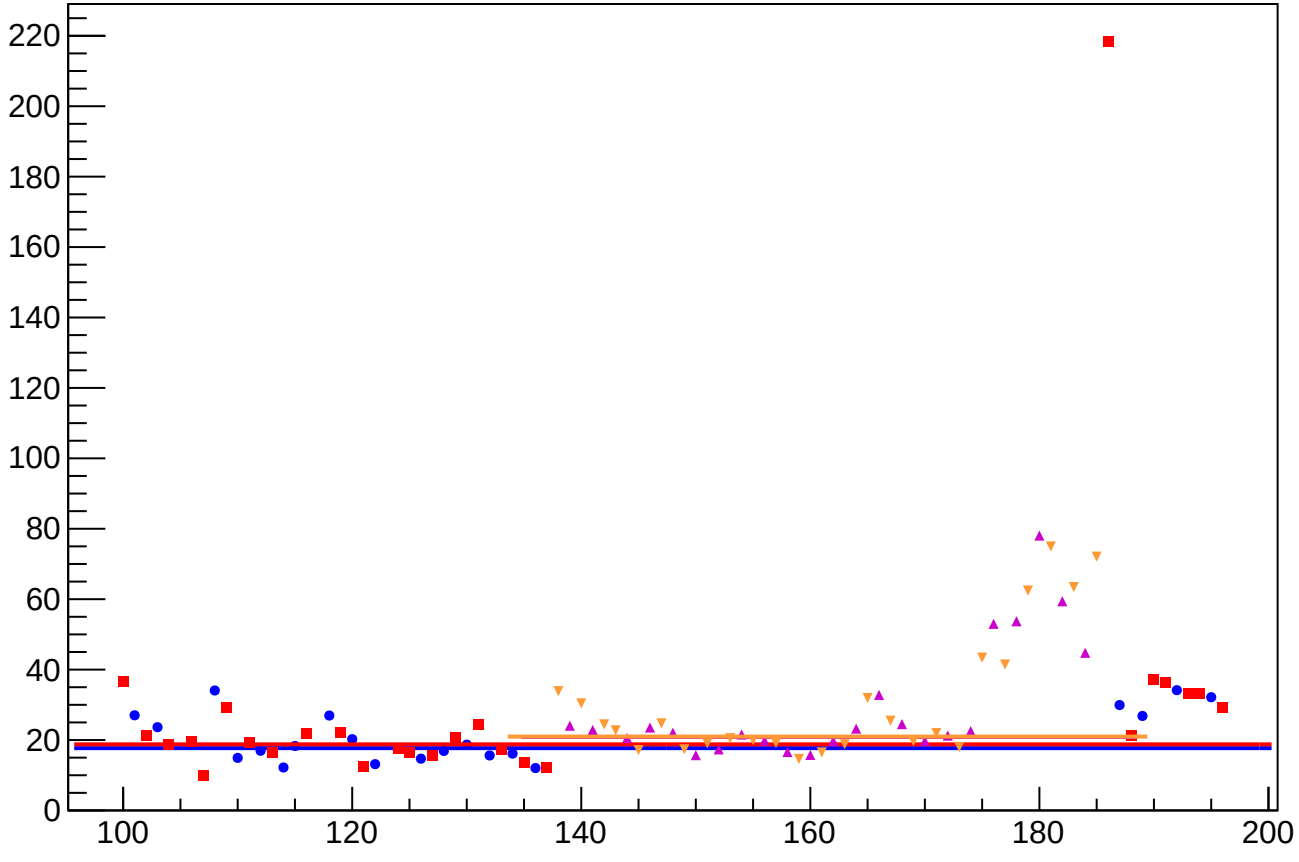
Right: 0.000+/-0.004 $\chi^2$/NDF: 54.1/45

In: 0.003+/-0.004 $\chi^2$/NDF:48.5/42

Out: -0.004+/-0.004 $\chi^2$/NDF:51.0/50

All: -0.001+/-0.003 $\chi^2$/NDF: 101.3/93

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.695+/-0.004 $\chi^2$/NDF: 2015612.4/19

Left Out: 20.981+/-0.004 $\chi^2$/NDF:4467011.5/24

Right Out: 18.776+/-0.004 $\chi^2$/NDF: 2819507.1/25

Left In: 20.868+/-0.004 $\chi^2$/NDF:3534877.7/22

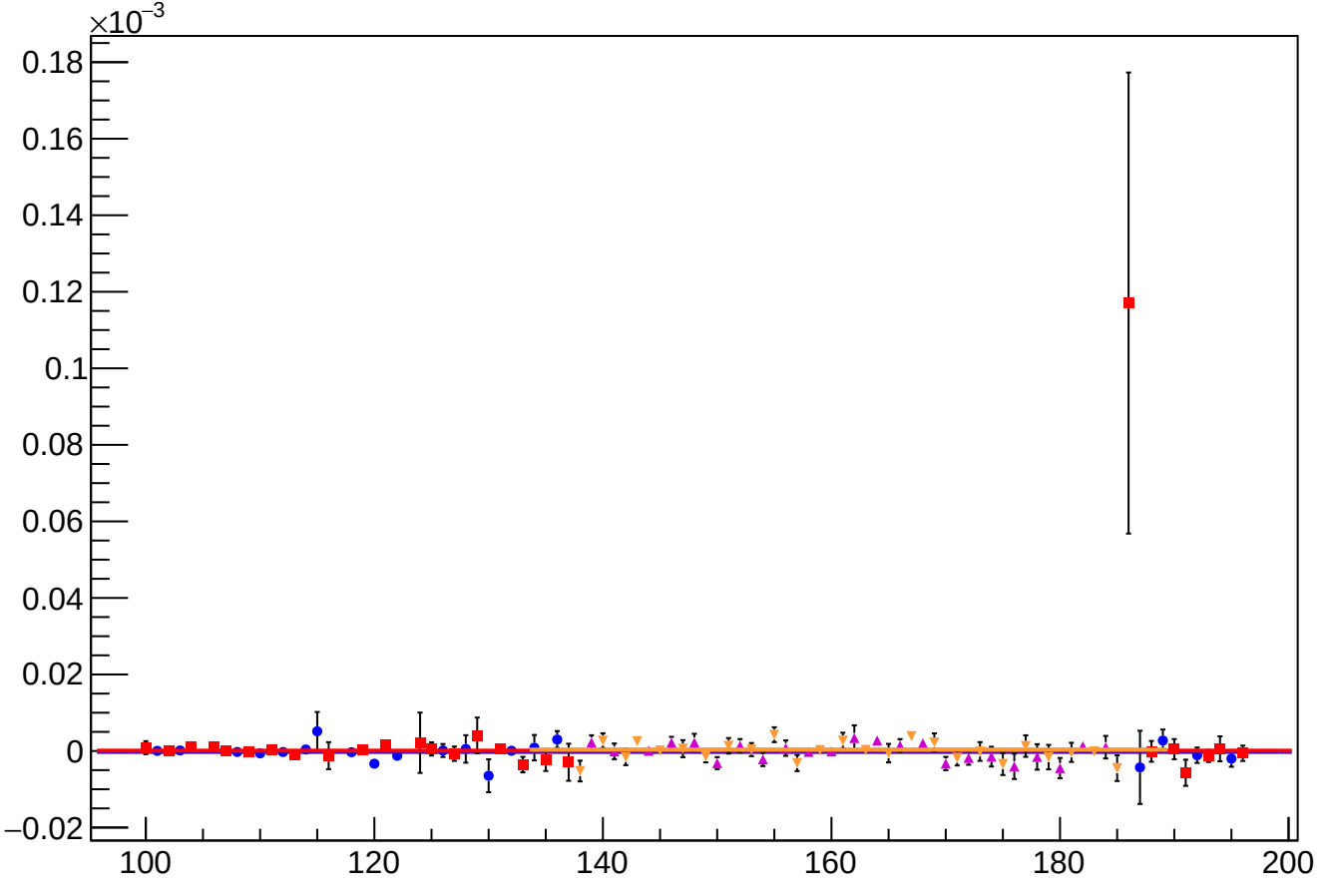
Left: 20.925+/-0.003 $\chi^2$/NDF: 8002354.8/47

Right: 18.255+/-0.003 $\chi^2$/NDF: 4866261.5/45

In: 19.539+/-0.003 $\chi^2$/NDF:5851591.8/42

Out: 20.036+/-0.003 $\chi^2$/NDF:7440373.5/50

All: 19.794+/-0.002 $\chi^2$/NDF: 13307527.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:34.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:31.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 65.9/47

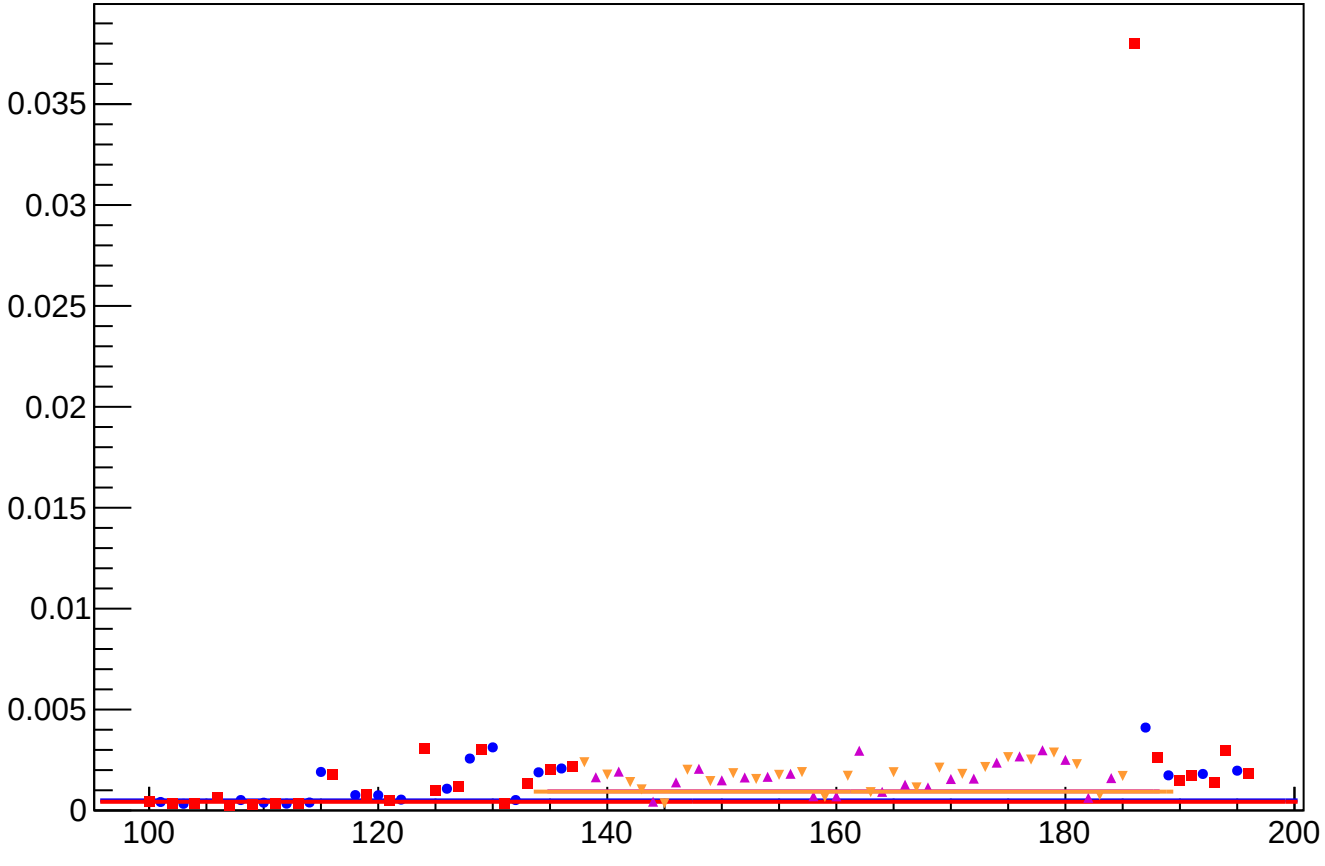
Right: -0.000+/-0.000 $\chi^2$/NDF: 45.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:50.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:62.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 114.2/93

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 6542209.5/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11996378.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 9779248.8/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:9470540.4/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 21470091.7/47

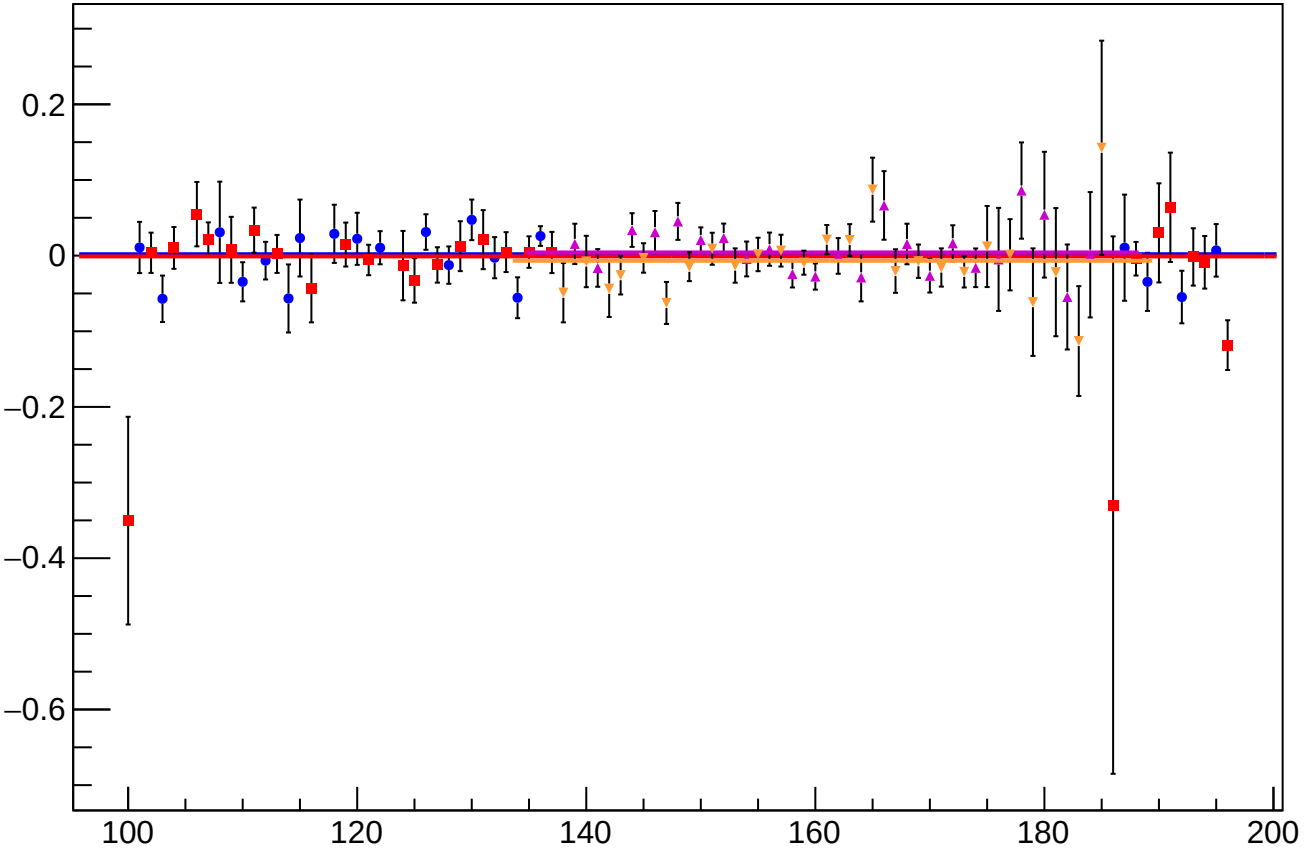
Right: 0.000+/-0.000 $\chi^2$/NDF: 16456855.4/45

In: 0.001+/-0.000 $\chi^2$/NDF:19640111.1/42

Out: 0.001+/-0.000 $\chi^2$/NDF:26994816.1/50

All: 0.001+/-0.000 $\chi^2$/NDF: 46979163.8/93

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.006 $\chi^2$/NDF: 25.2/19

Left Out: -0.007+/-0.005 $\chi^2$/NDF:21.8/24

Right Out: -0.001+/-0.006 $\chi^2$/NDF: 28.8/25

Left In: 0.004+/-0.005 $\chi^2$/NDF:23.2/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 47.1/47

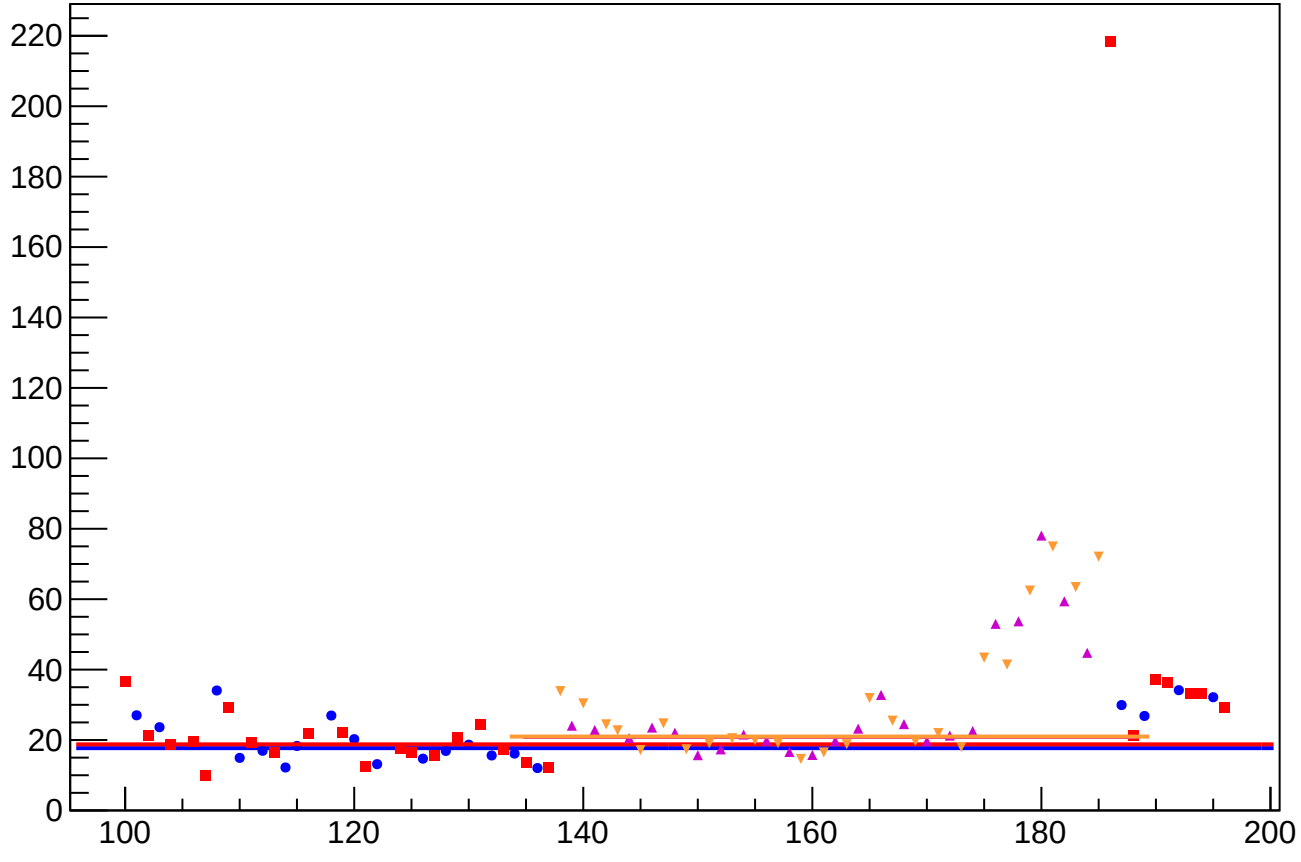
Right: 0.000+/-0.004 $\chi^2$/NDF: 54.1/45

In: 0.003+/-0.004 $\chi^2$/NDF:48.5/42

Out: -0.004+/-0.004 $\chi^2$/NDF:51.0/50

All: -0.001+/-0.003 $\chi^2$/NDF: 101.3/93

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.695+/-0.004 $\chi^2$/NDF: 2015640.4/19

Left Out: 20.981+/-0.004 $\chi^2$/NDF:4466984.6/24

Right Out: 18.776+/-0.004 $\chi^2$/NDF: 2819529.4/25

Left In: 20.868+/-0.004 $\chi^2$/NDF:3534923.5/22

Left: 20.925+/-0.003 $\chi^2$/NDF: 8002374.3/47

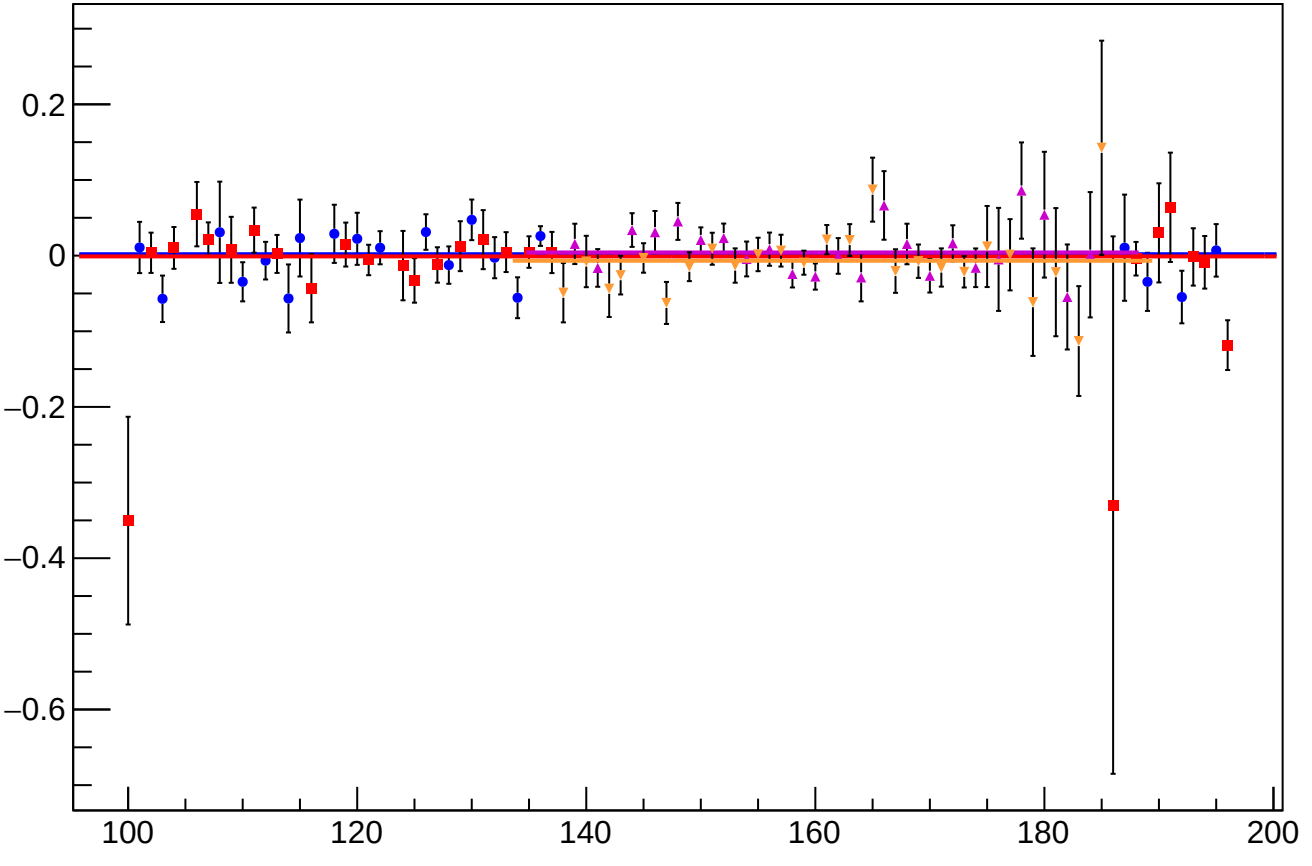
Right: 18.255+/-0.003 $\chi^2$/NDF: 4866308.6/45

In: 19.539+/-0.003 $\chi^2$/NDF:5851712.2/42

Out: 20.036+/-0.003 $\chi^2$/NDF:7440421.7/50

All: 19.794+/-0.002 $\chi^2$/NDF: 13307696.4/93

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.002+/-0.006 $\chi^2$/NDF: 25.2/19

Left Out: -0.007+/-0.005 $\chi^2$/NDF:21.8/24

Right Out: -0.001+/-0.006 $\chi^2$/NDF: 28.8/25

Left In: 0.004+/-0.005 $\chi^2$/NDF:23.2/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 47.1/47

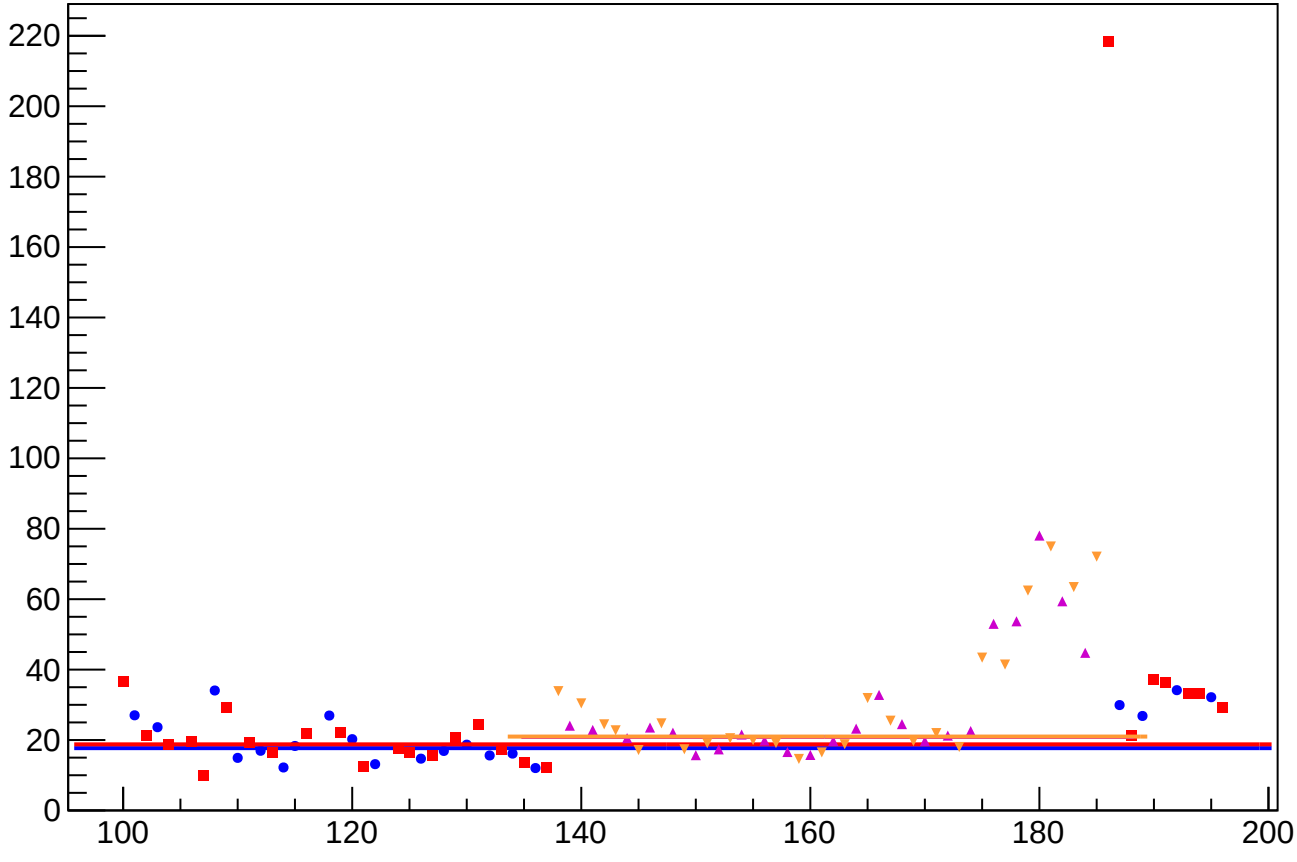
Right: 0.000+/-0.004 $\chi^2$/NDF: 54.1/45

In: 0.003+/-0.004 $\chi^2$/NDF:48.5/42

Out: -0.004+/-0.004 $\chi^2$/NDF:51.0/50

All: -0.001+/-0.003 $\chi^2$/NDF: 101.3/93

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 17.695+/-0.004 $\chi^2$/NDF: 2015640.4/19

Left Out: 20.981+/-0.004 $\chi^2$/NDF:4466984.6/24

Right Out: 18.776+/-0.004 $\chi^2$/NDF: 2819529.4/25

Left In: 20.868+/-0.004 $\chi^2$/NDF:3534923.5/22

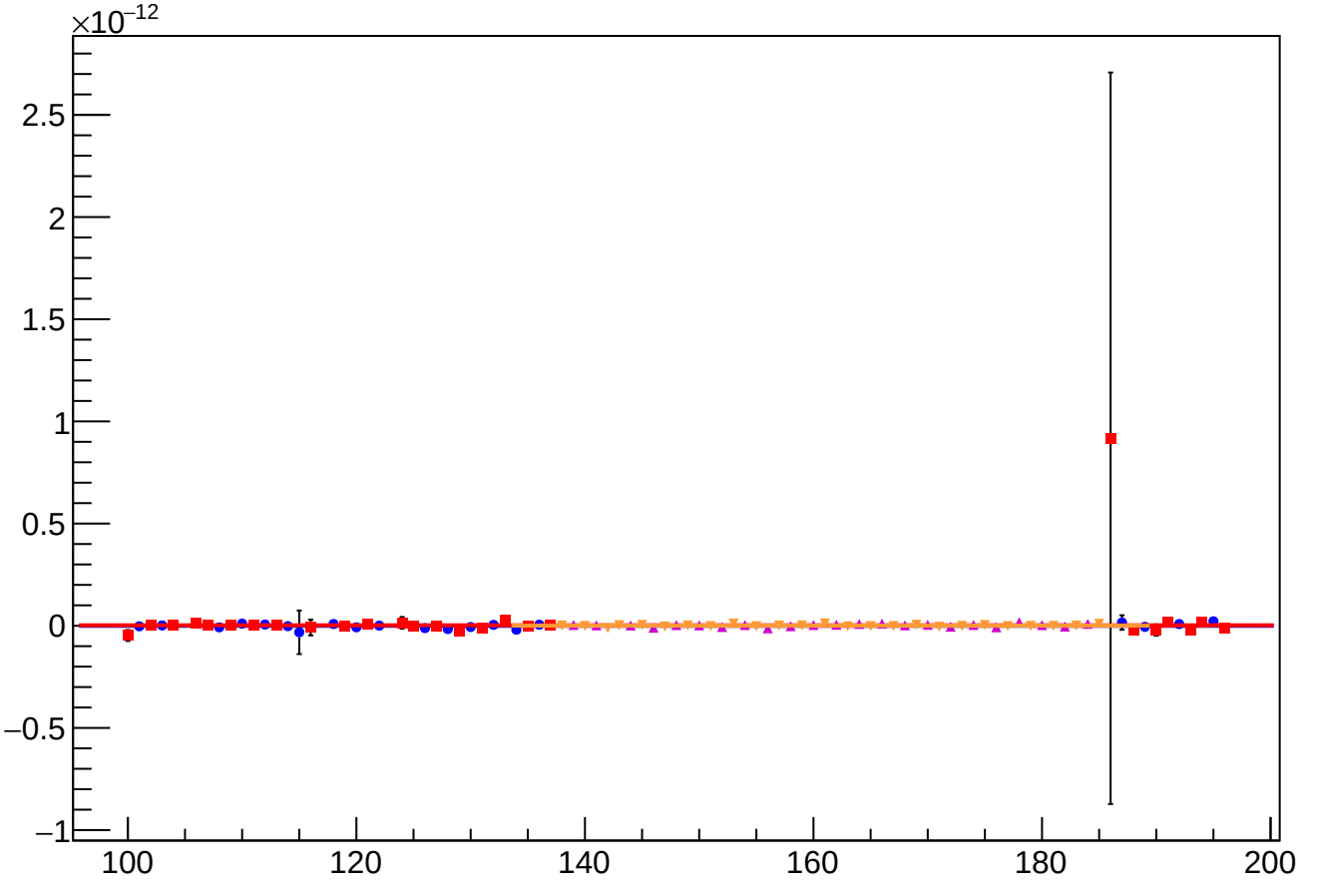
Left: 20.925+/-0.003 $\chi^2$/NDF: 8002374.3/47

Right: 18.255+/-0.003 $\chi^2$/NDF: 4866308.6/45

In: 19.539+/-0.003 $\chi^2$/NDF:5851712.2/42

Out: 20.036+/-0.003 $\chi^2$/NDF:7440421.7/50

All: 19.794+/-0.002 $\chi^2$/NDF: 13307696.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 14.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:26.5/22

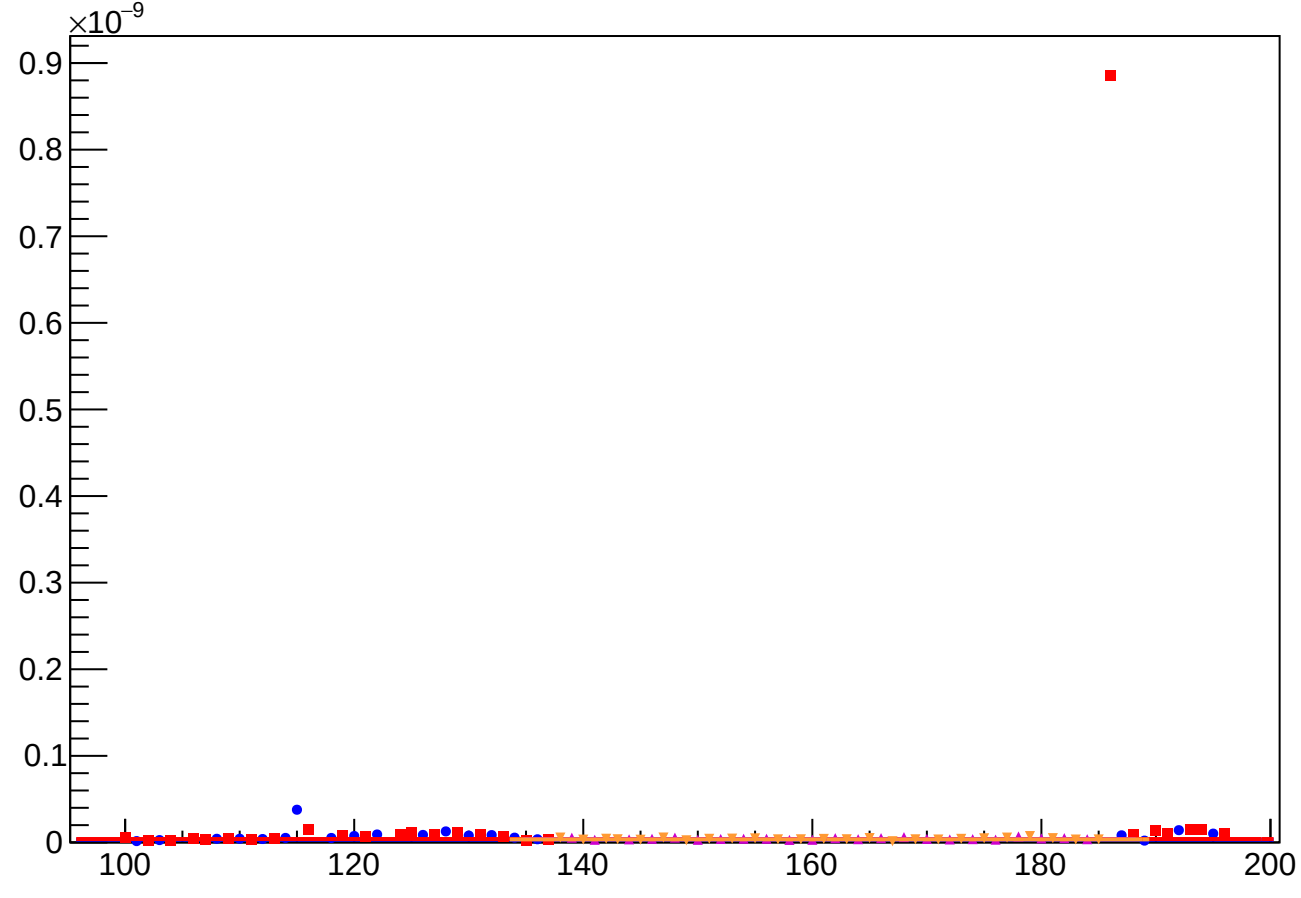
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 37.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:41.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:36.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 78.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4044485.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2527443.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5358599.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1198286.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3840820.1/47

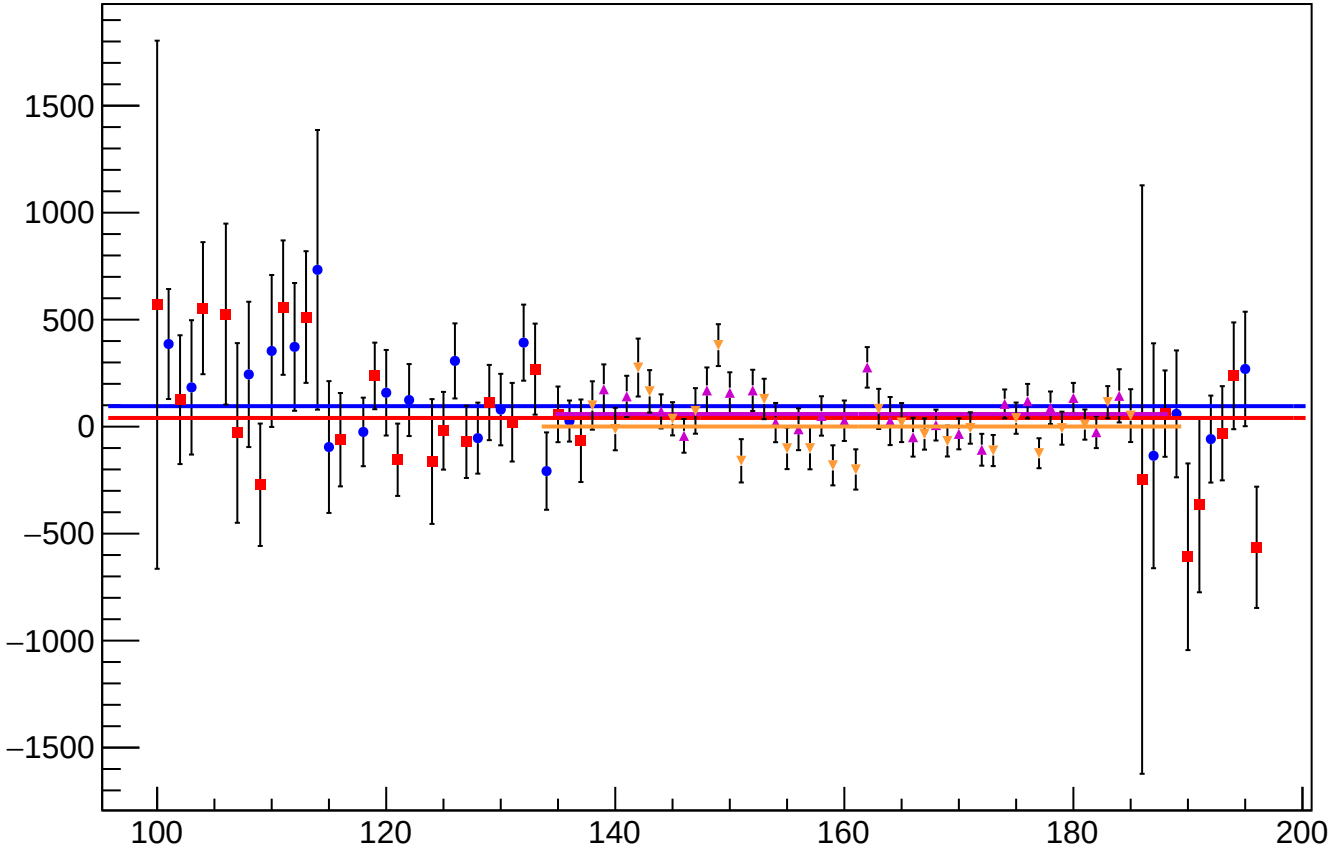
Right: 0.000+/-0.000 $\chi^2$/NDF: 9636555.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:5547489.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7969236.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 13516732.0/93

# reg_asym_sam_26_avg_mean vs Slug, Sign Corrected




Right In: 95.693+/-44.995 $\chi^2$/NDF: 14.6/19

Left Out: 0.598+/-17.319 $\chi^2$/NDF:48.6/24

Right Out: 40.559+/-44.881 $\chi^2$/NDF: 25.0/25

Left In: 58.907+/-17.879 $\chi^2$/NDF:25.8/22

Left: 28.825+/-12.440 $\chi^2$/NDF: 79.9/47

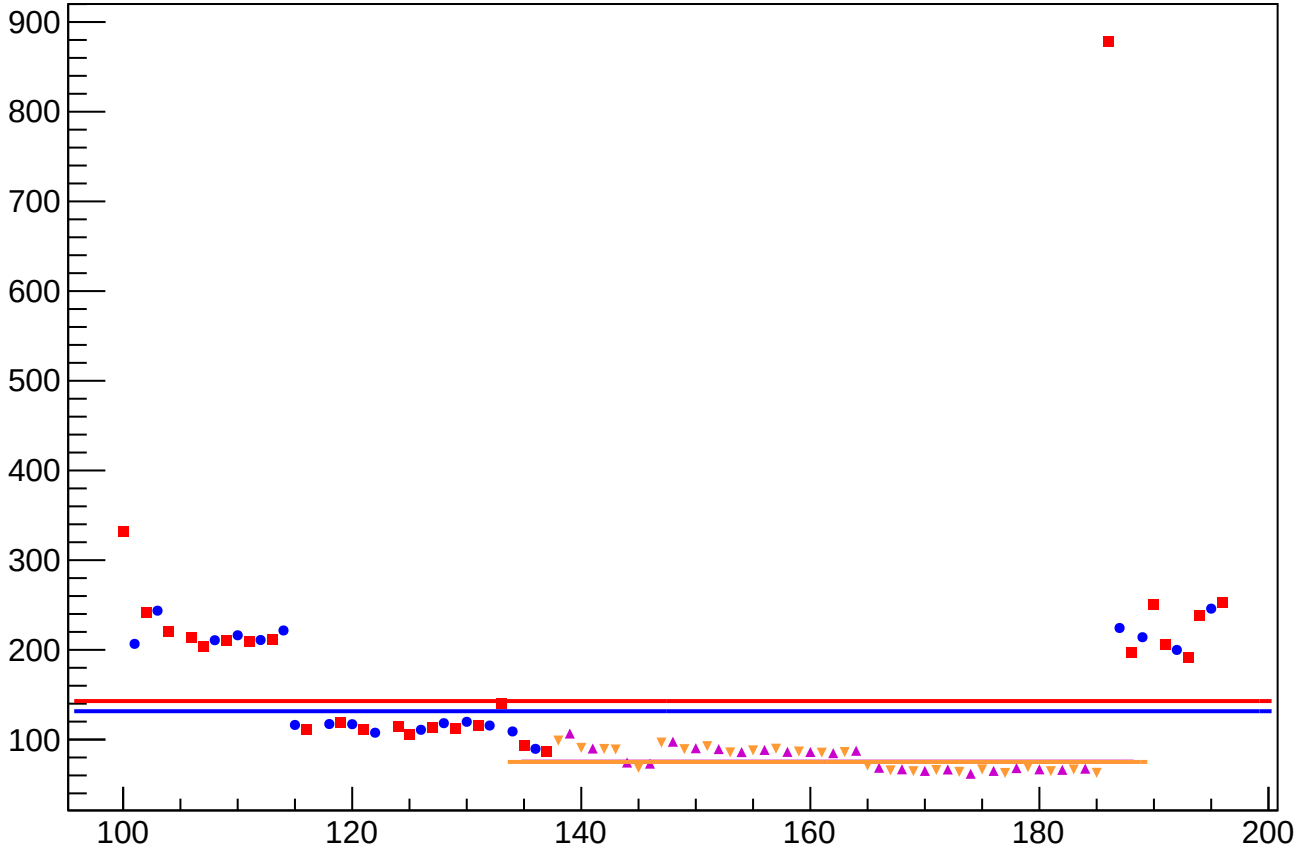
Right: 68.057+/-31.776 $\chi^2$/NDF: 40.3/45

In: 63.923+/-16.615 $\chi^2$/NDF:41.0/42

Out: 5.777+/-16.158 $\chi^2$/NDF:74.3/50

All: 34.039+/-11.584 $\chi^2$/NDF: 121.5/93

# reg_asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 131.593+/-0.032 $\chi^2$/NDF: 2188199.0/19

Left Out: 75.041+/-0.012 $\chi^2$/NDF:928107.8/24

Right Out: 142.915+/-0.032 $\chi^2$/NDF: 3256355.3/25

Left In: 75.352+/-0.013 $\chi^2$/NDF:837634.2/22

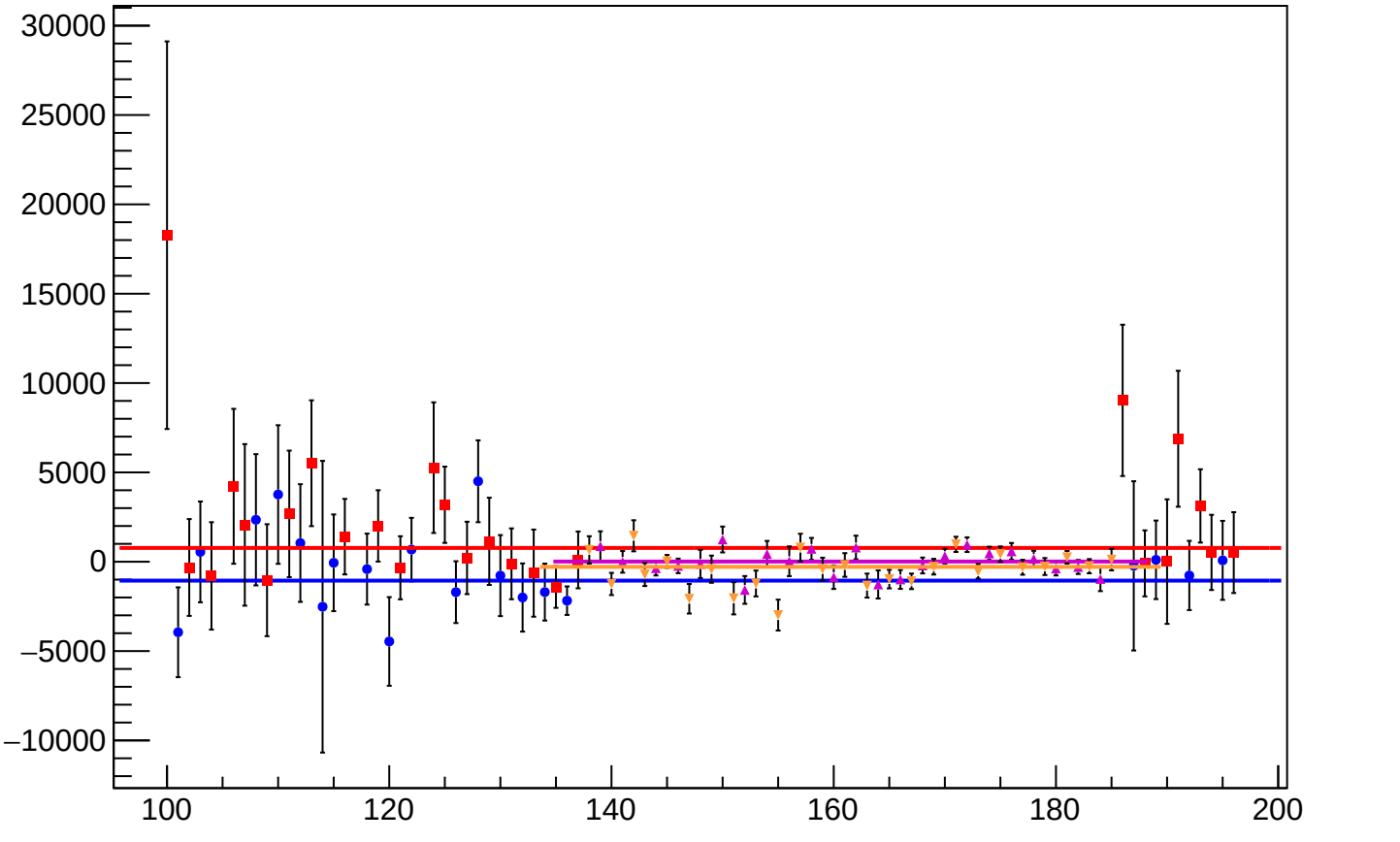
Left: 75.192+/-0.009 $\chi^2$/NDF: 1766053.8/47

Right: 137.268+/-0.022 $\chi^2$/NDF: 5508030.0/45

In: 83.021+/-0.012 $\chi^2$/NDF:5724451.1/42

Out: 83.838+/-0.011 $\chi^2$/NDF:8165620.7/50

All: 83.441+/-0.008 $\chi^2$/NDF: 13892558.4/93




Right In: -1057.534+/-443.554 $\chi^2$/NDF: 16.6/19

Left Out: -288.079+/-105.231 $\chi^2$/NDF:53.3/24

Right Out: 771.712+/-454.900 $\chi^2$/NDF: 22.1/25

Left In: 10.643+/-107.669 $\chi^2$/NDF:33.4/22

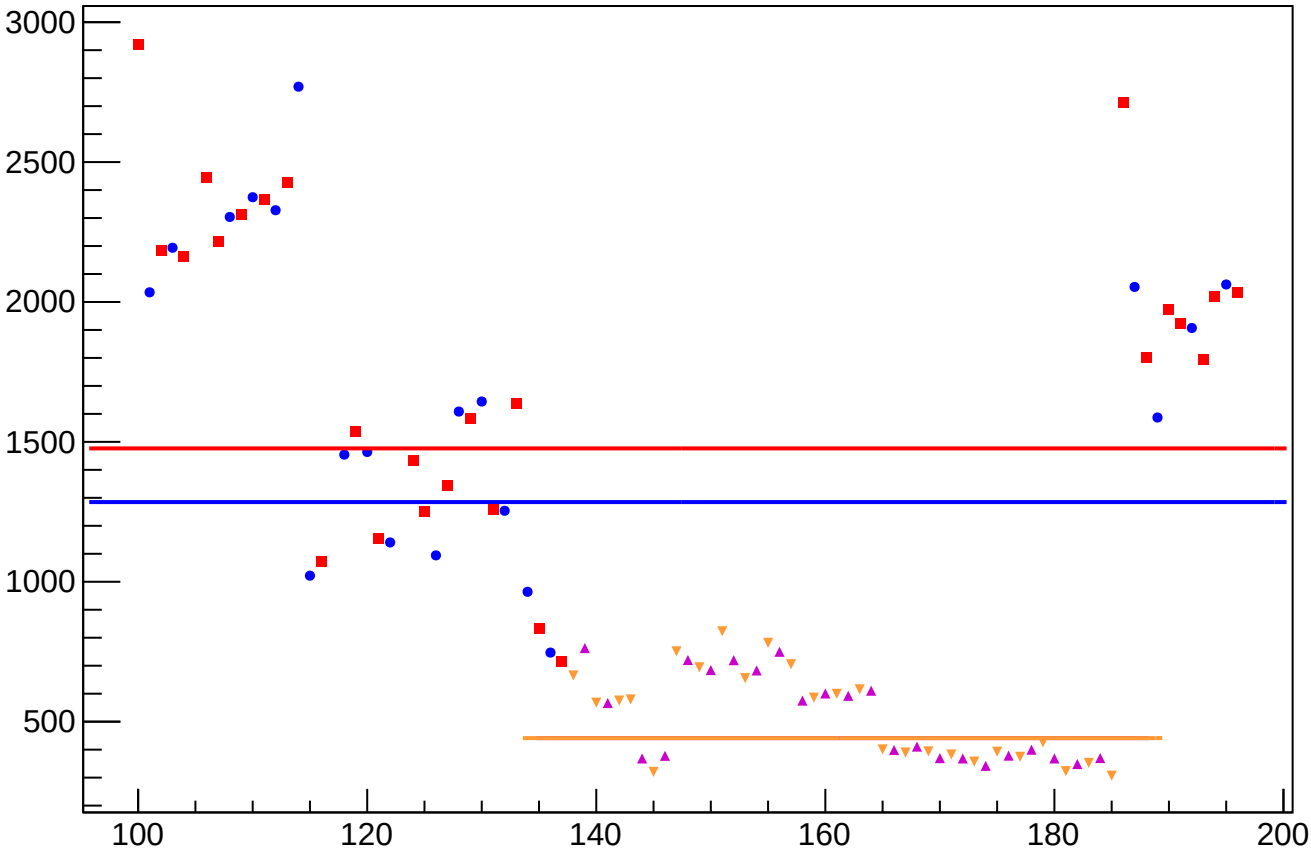
Left: -142.139+/-75.257 $\chi^2$/NDF: 90.6/47

Right: -166.008+/-317.575 $\chi^2$/NDF: 47.0/45

In: -48.796+/-104.631 $\chi^2$/NDF:55.5/42

Out: -234.247+/-102.524 $\chi^2$/NDF:80.6/50

All: -143.408+/-73.229 $\chi^2$/NDF: 137.7/93




Right In: 1284.809+/-0.314 $\chi^2$/NDF: 2670619.5/19

Left Out: 441.128+/-0.074 $\chi^2$/NDF:3234629.2/24

Right Out: 1476.676+/-0.322 $\chi^2$/NDF: 2721767.8/25

Left In: 441.196+/-0.076 $\chi^2$/NDF:2682075.8/22

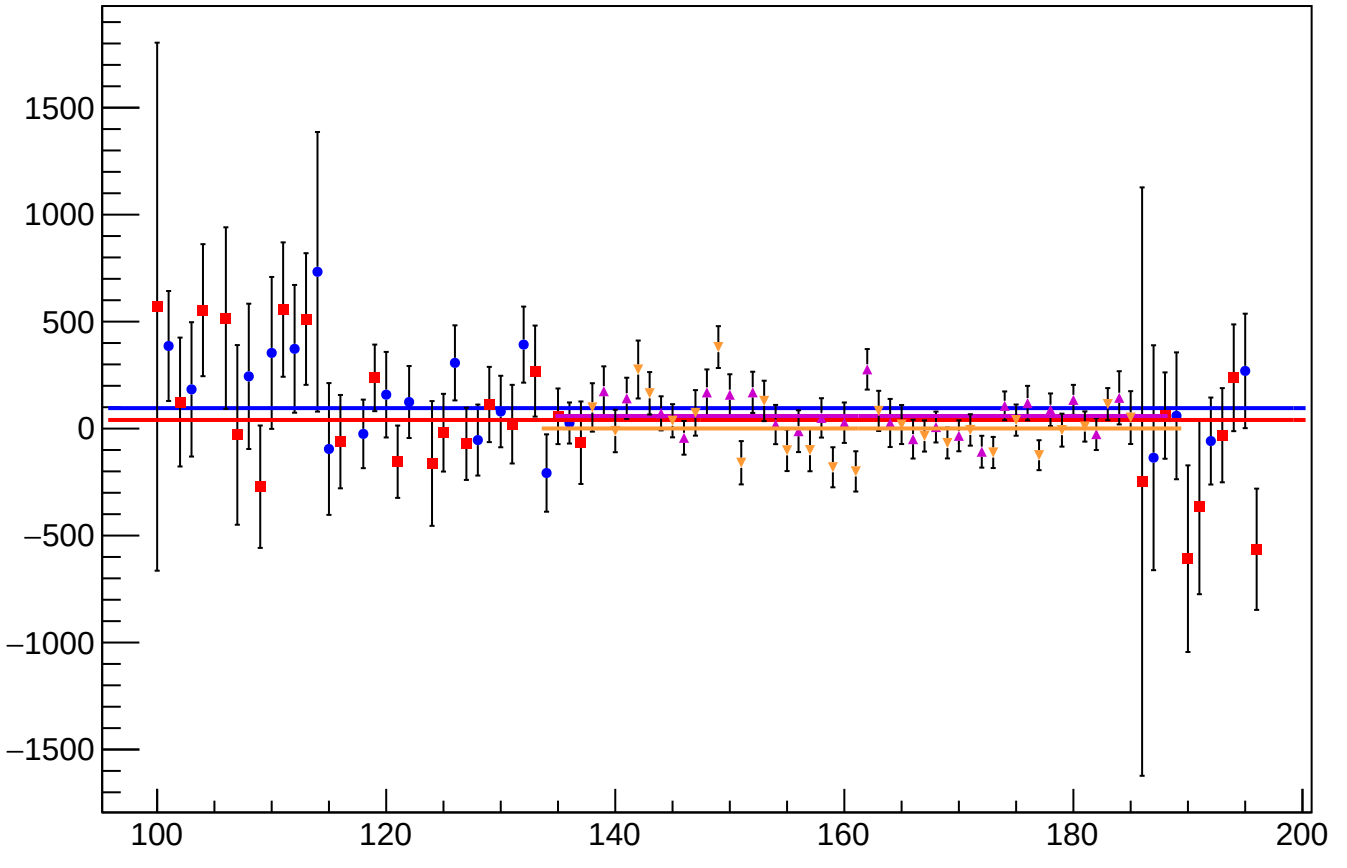
Left: 441.161+/-0.053 $\chi^2$/NDF: 5916705.4/47

Right: 1378.320+/-0.225 $\chi^2$/NDF: 5574777.5/45

In: 488.139+/-0.074 $\chi^2$/NDF:12184871.8/42

Out: 493.729+/-0.072 $\chi^2$/NDF:15794213.6/50

All: 490.991+/-0.052 $\chi^2$/NDF: 27981997.5/93




Right In: 95.680+/-44.995 $\chi^2$/NDF: 14.6/19

Left Out: 0.598+/-17.319 $\chi^2$/NDF:48.6/24

Right Out: 40.366+/-44.884 $\chi^2$/NDF: 24.9/25

Left In: 58.904+/-17.879 $\chi^2$/NDF:25.8/22

Left: 28.824+/-12.440 $\chi^2$/NDF: 79.9/47

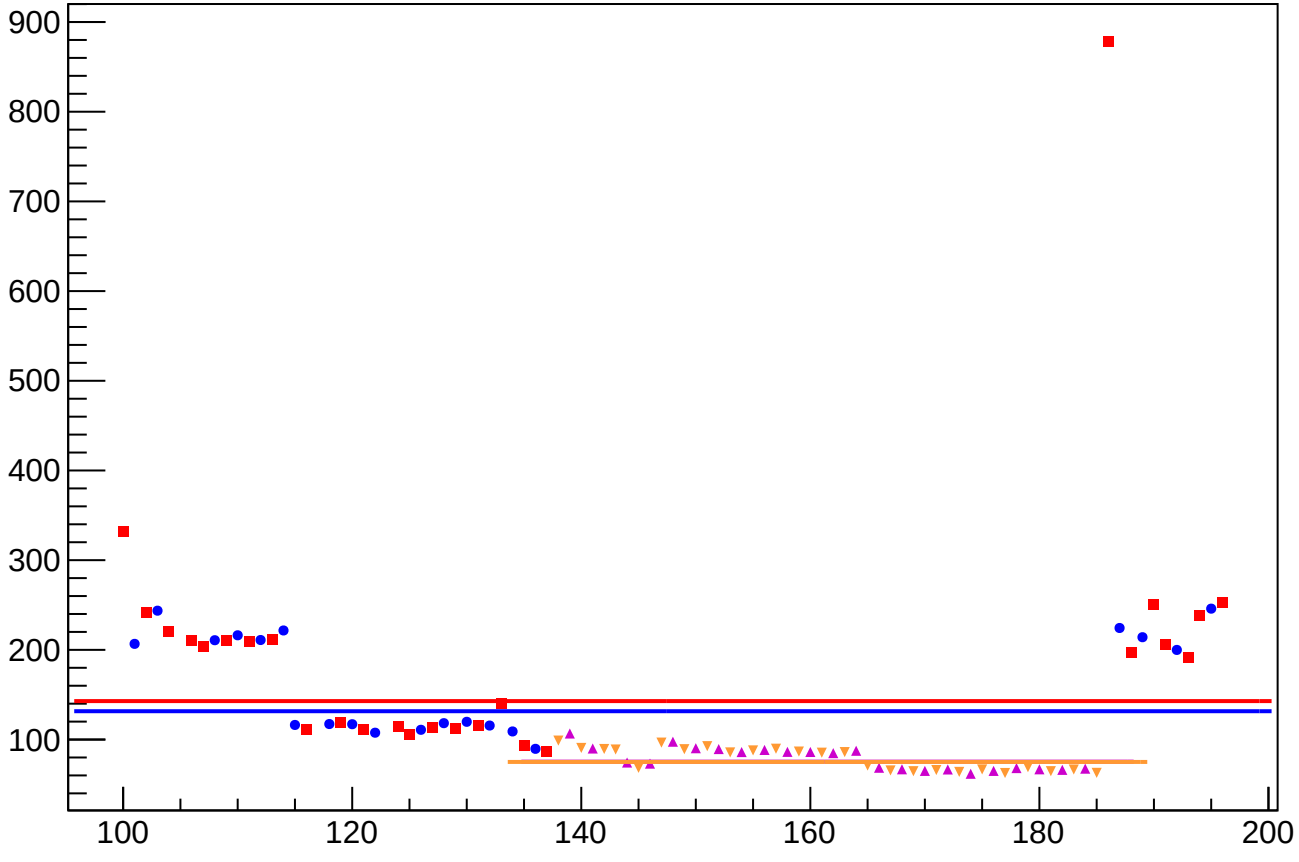
Right: 67.955+/-31.777 $\chi^2$/NDF: 40.2/45

In: 63.919+/-16.615 $\chi^2$/NDF:41.0/42

Out: 5.752+/-16.158 $\chi^2$/NDF:74.2/50

All: 34.024+/-11.584 $\chi^2$/NDF: 121.5/93

# cor_asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 131.593+/-0.032 $\chi^2$/NDF: 2188201.4/19

Left Out: 75.041+/-0.012 $\chi^2$/NDF:928107.8/24

Right Out: 142.875+/-0.032 $\chi^2$/NDF: 3251528.9/25

Left In: 75.352+/-0.013 $\chi^2$/NDF:837634.2/22

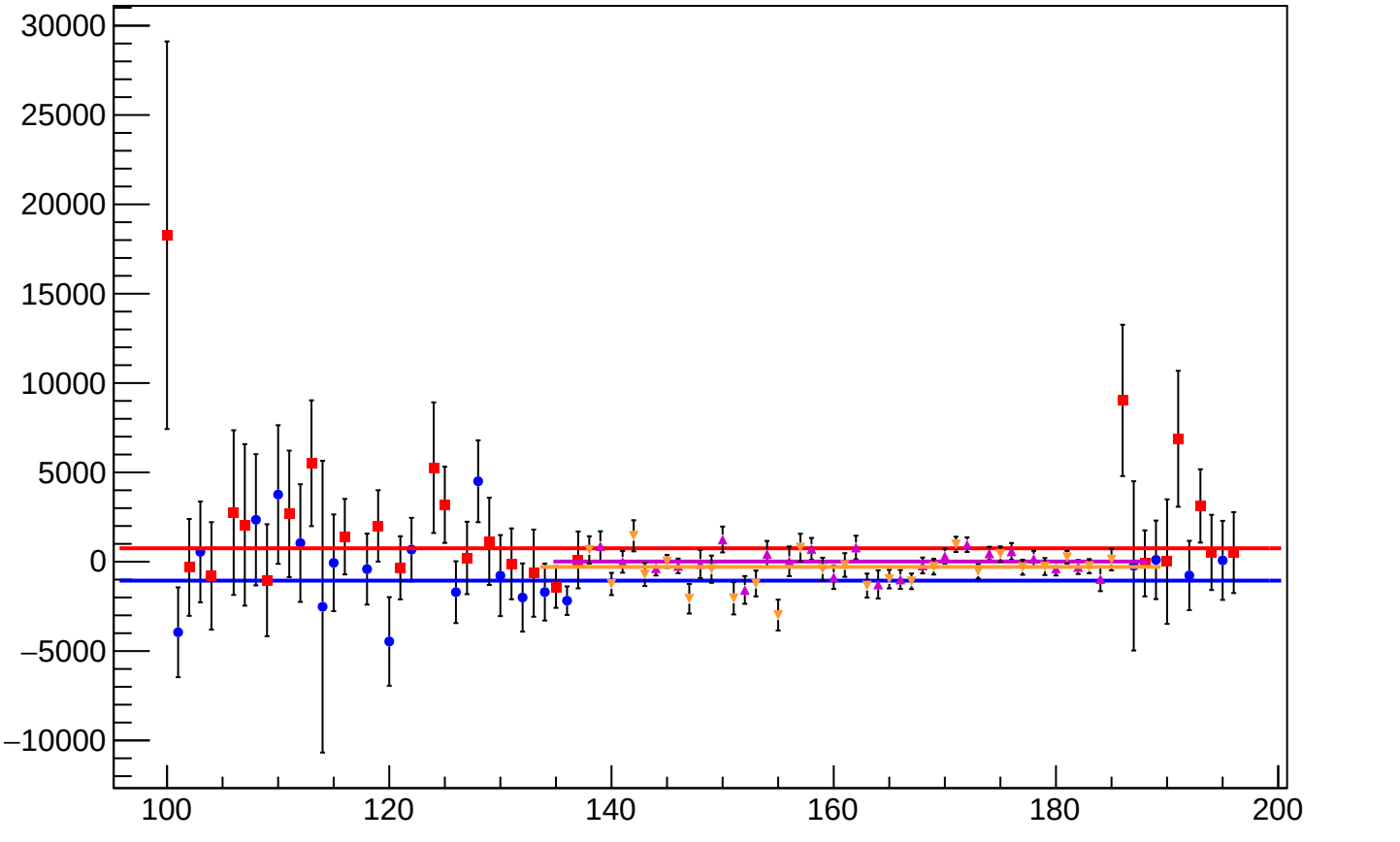
Left: 75.192+/-0.009 $\chi^2$/NDF: 1766053.7/47

Right: 137.248+/-0.022 $\chi^2$/NDF: 5502757.9/45

In: 83.021+/-0.012 $\chi^2$/NDF:5724453.1/42

Out: 83.832+/-0.011 $\chi^2$/NDF:8155774.2/50

All: 83.438+/-0.008 $\chi^2$/NDF: 13882677.9/93




Right In: -1057.514+/-443.554 $\chi^2$/NDF: 16.6/19

Left Out: -288.079+/-105.231 $\chi^2$/NDF:53.3/24

Right Out: 753.157+/-455.197 $\chi^2$/NDF: 21.7/25

Left In: 10.644+/-107.670 $\chi^2$/NDF:33.4/22

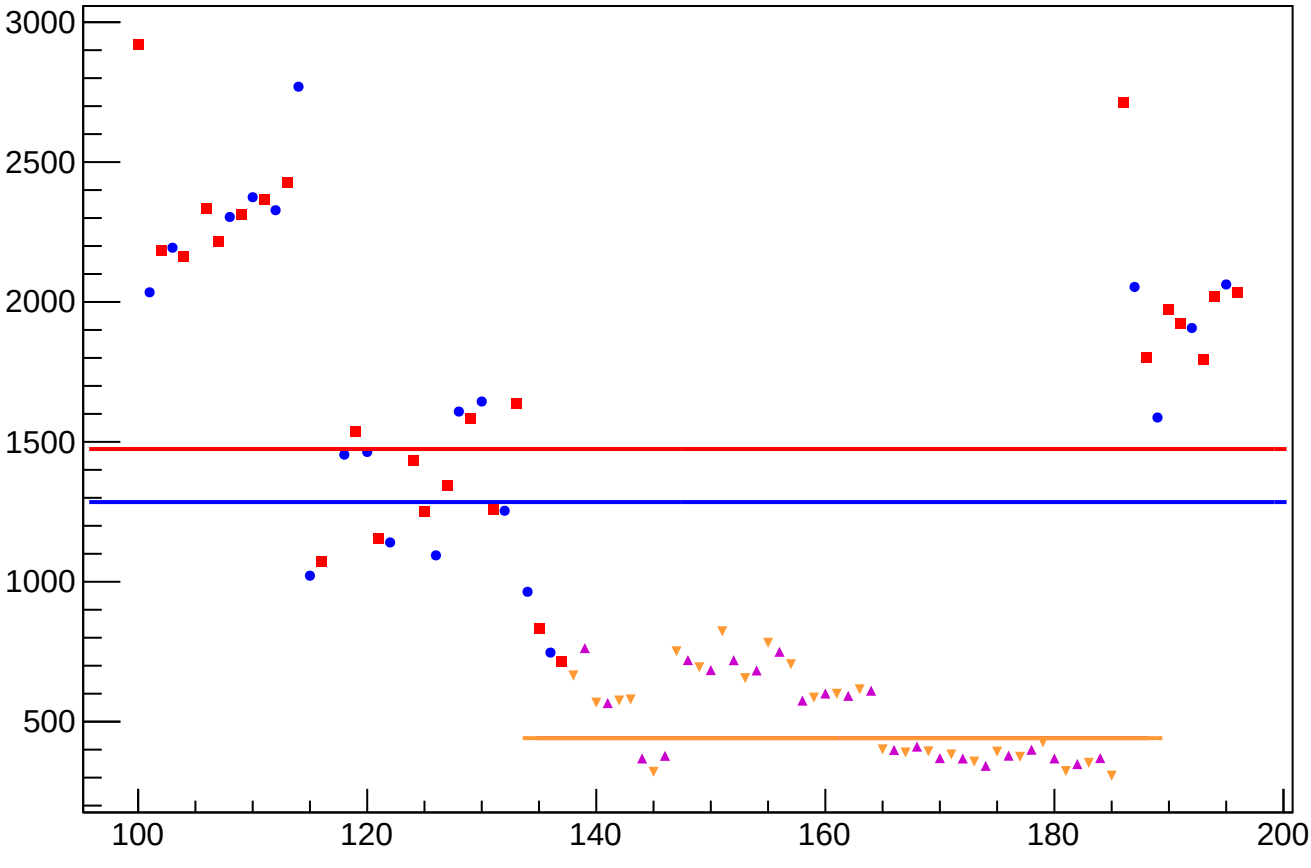
Left: -142.138+/-75.257 $\chi^2$/NDF: 90.6/47

Right: -175.630+/-317.676 $\chi^2$/NDF: 46.4/45

In: -48.794+/-104.631 $\chi^2$/NDF:55.5/42

Out: -235.255+/-102.527 $\chi^2$/NDF:79.9/50

All: -143.918+/-73.230 $\chi^2$/NDF: 137.1/93




Right In: 1284.809+/-0.314 $\chi^2$/NDF: 2670651.2/19

Left Out: 441.128+/-0.074 $\chi^2$/NDF:3234622.5/24

Right Out: 1474.398+/-0.322 $\chi^2$/NDF: 2691801.1/25

Left In: 441.196+/-0.076 $\chi^2$/NDF:2682073.9/22

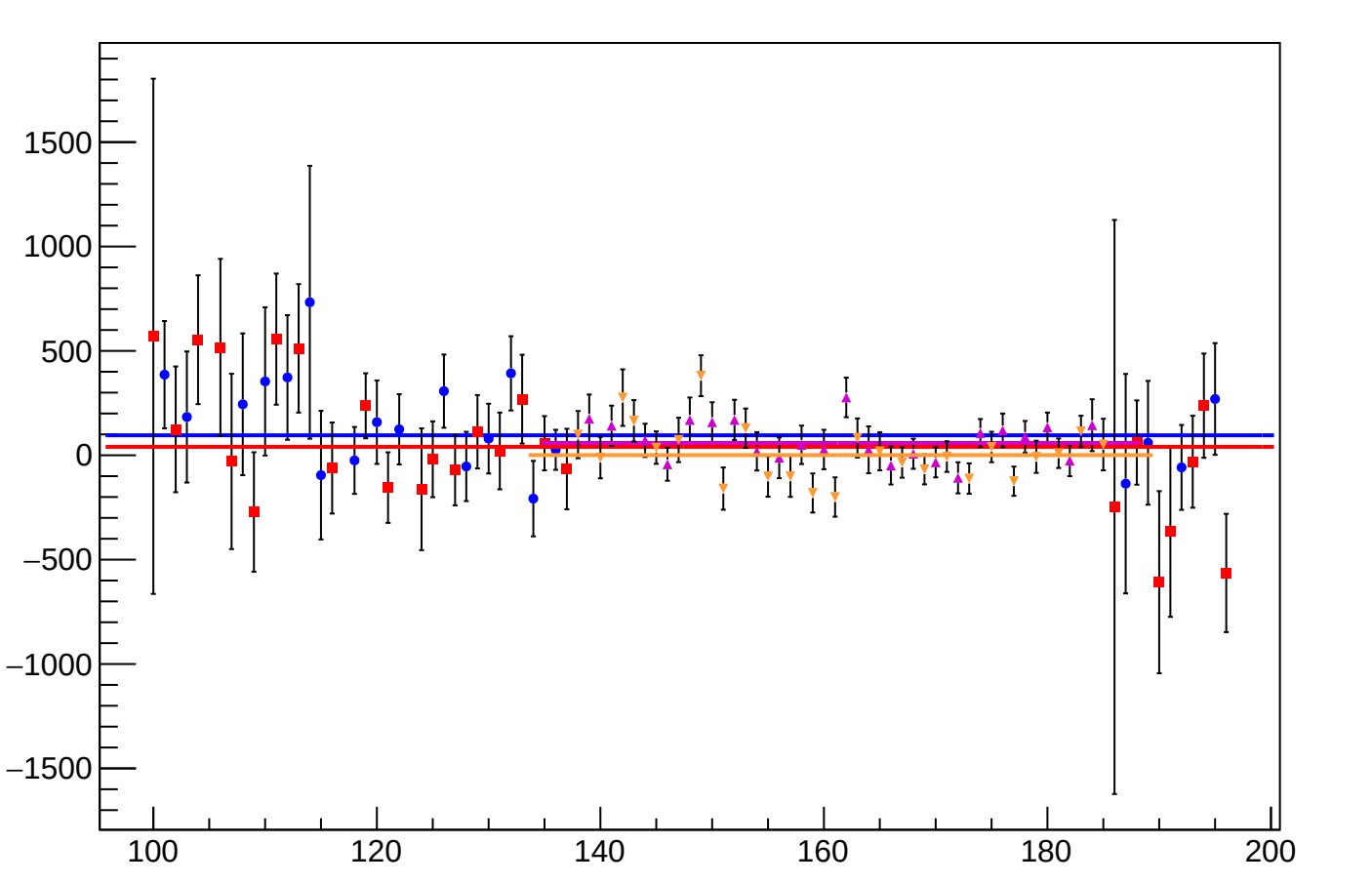
Left: 441.162+/-0.053 $\chi^2$/NDF: 5916696.8/47

Right: 1377.148+/-0.225 $\chi^2$/NDF: 5540417.6/45

In: 488.139+/-0.074 $\chi^2$/NDF:12184882.3/42

Out: 493.548+/-0.072 $\chi^2$/NDF:15708887.8/50

All: 490.899+/-0.052 $\chi^2$/NDF: 27896496.9/93




Right In: 95.680+/-44.995 $\chi^2$/NDF: 14.6/19

Left Out: 0.598+/-17.319 $\chi^2$/NDF:48.6/24

Right Out: 40.366+/-44.884 $\chi^2$/NDF: 24.9/25

Left In: 58.904+/-17.879 $\chi^2$/NDF:25.8/22

Left: 28.824+/-12.440 $\chi^2$/NDF: 79.9/47

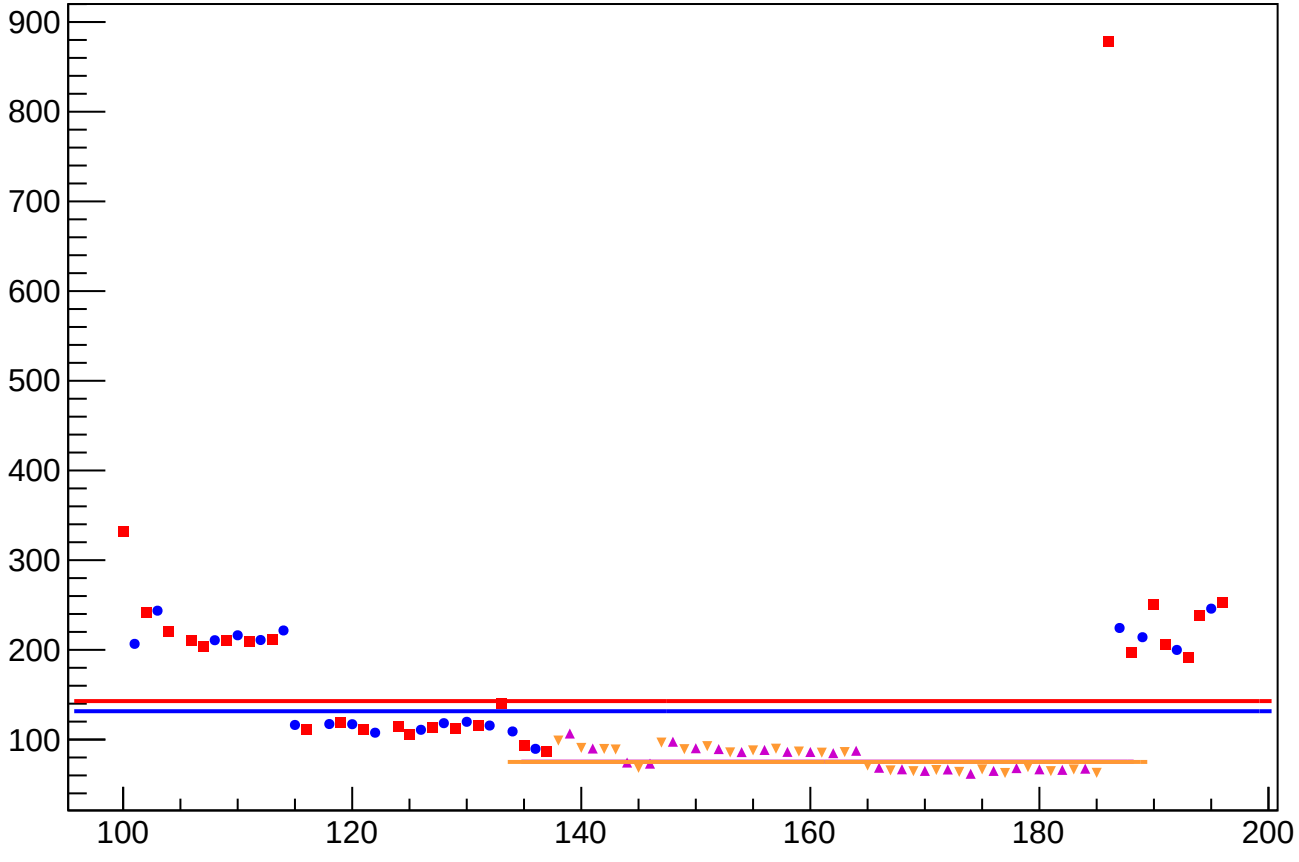
Right: 67.955+/-31.777 $\chi^2$/NDF: 40.2/45

In: 63.919+/-16.615 $\chi^2$/NDF:41.0/42

Out: 5.752+/-16.158 $\chi^2$/NDF:74.2/50

All: 34.024+/-11.584 $\chi^2$/NDF: 121.5/93

# eigen_cor_asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 131.593+/-0.032 $\chi^2$/NDF: 2188201.4/19

Left Out: 75.041+/-0.012 $\chi^2$/NDF:928107.8/24

Right Out: 142.875+/-0.032 $\chi^2$/NDF: 3251528.9/25

Left In: 75.352+/-0.013 $\chi^2$/NDF:837634.2/22

Left: 75.192+/-0.009 $\chi^2$/NDF: 1766053.7/47

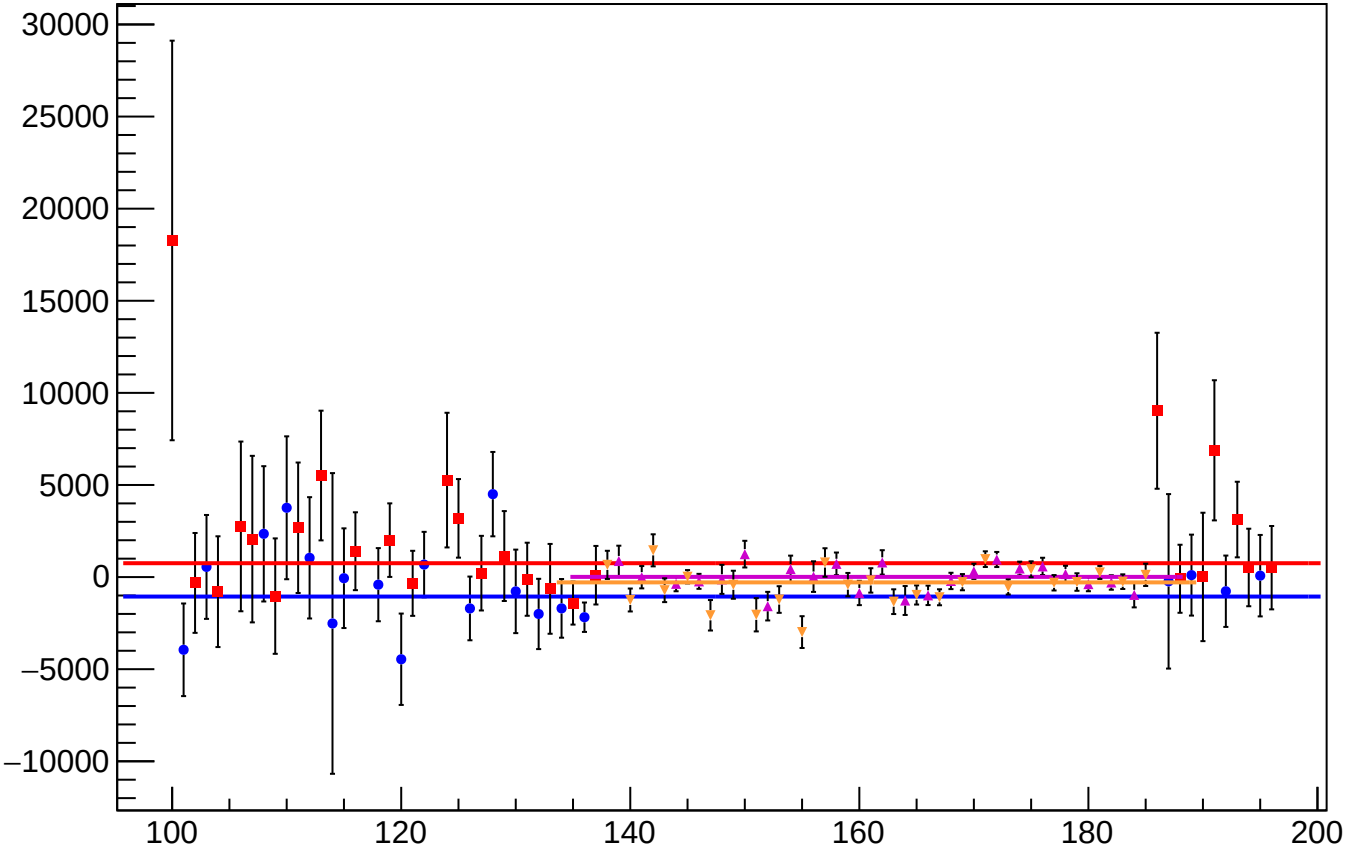
Right: 137.248+/-0.022 $\chi^2$/NDF: 5502757.9/45

In: 83.021+/-0.012 $\chi^2$/NDF:5724453.1/42

Out: 83.832+/-0.011 $\chi^2$/NDF:8155774.2/50

All: 83.438+/-0.008 $\chi^2$/NDF: 13882677.9/93

asym_sam_26_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1057.514+/-443.554 $\chi^2$/NDF: 16.6/19

Left Out: -288.079+/-105.231 $\chi^2$/NDF:53.3/24

Right Out: 753.157+/-455.197 $\chi^2$/NDF: 21.7/25

Left In: 10.644+/-107.670 $\chi^2$/NDF:33.4/22

Left: -142.138+/-75.257 $\chi^2$/NDF: 90.6/47

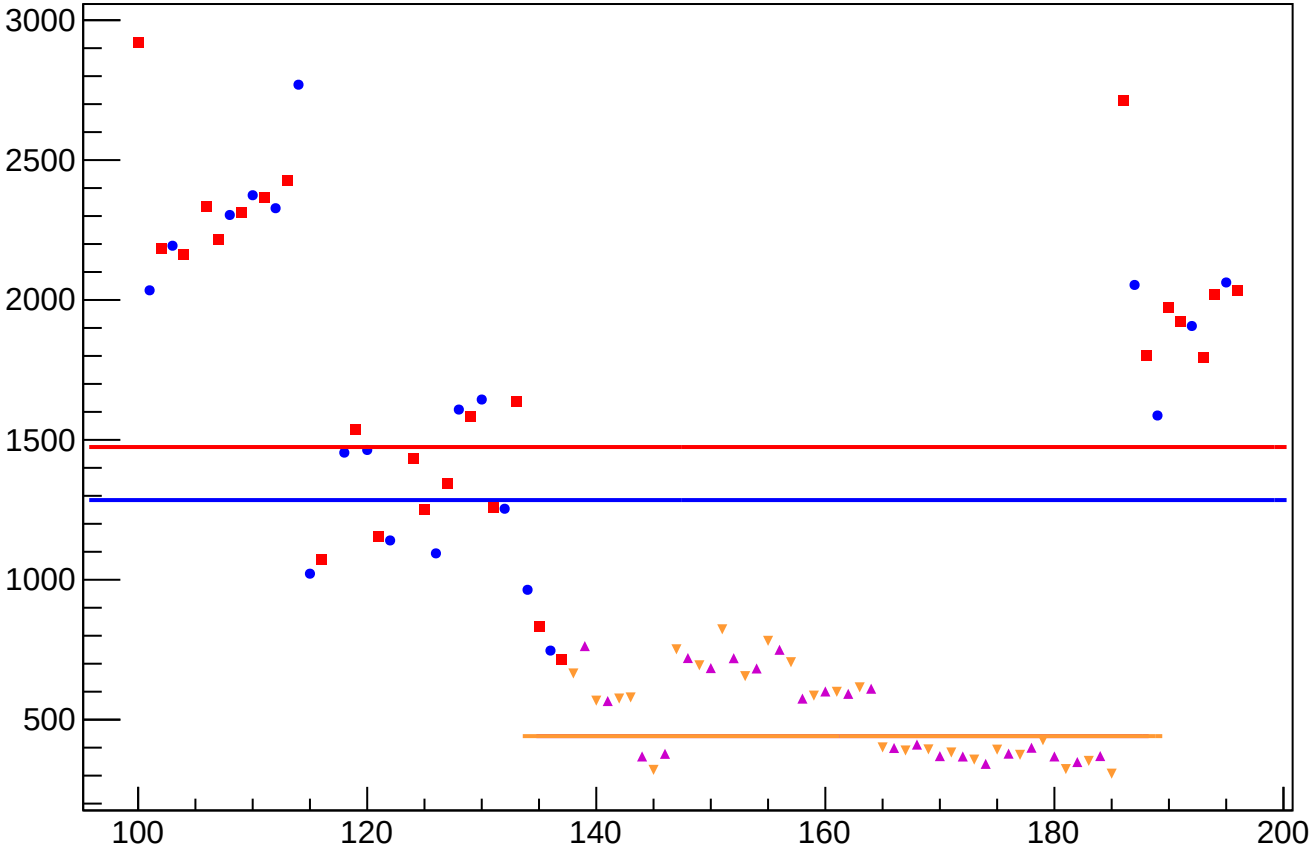
Right: -175.630+/-317.676 $\chi^2$/NDF: 46.4/45

In: -48.794+/-104.631 $\chi^2$/NDF:55.5/42

Out: -235.255+/-102.527 $\chi^2$/NDF:79.9/50

All: -143.918+/-73.230 $\chi^2$/NDF: 137.1/93

asym_sam_26_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1284.809+/-0.314 $\chi^2$/NDF: 2670651.2/19

Left Out: 441.128+/-0.074 $\chi^2$/NDF:3234622.5/24

Right Out: 1474.398+/-0.322 $\chi^2$/NDF: 2691801.1/25

Left In: 441.196+/-0.076 $\chi^2$/NDF:2682073.9/22

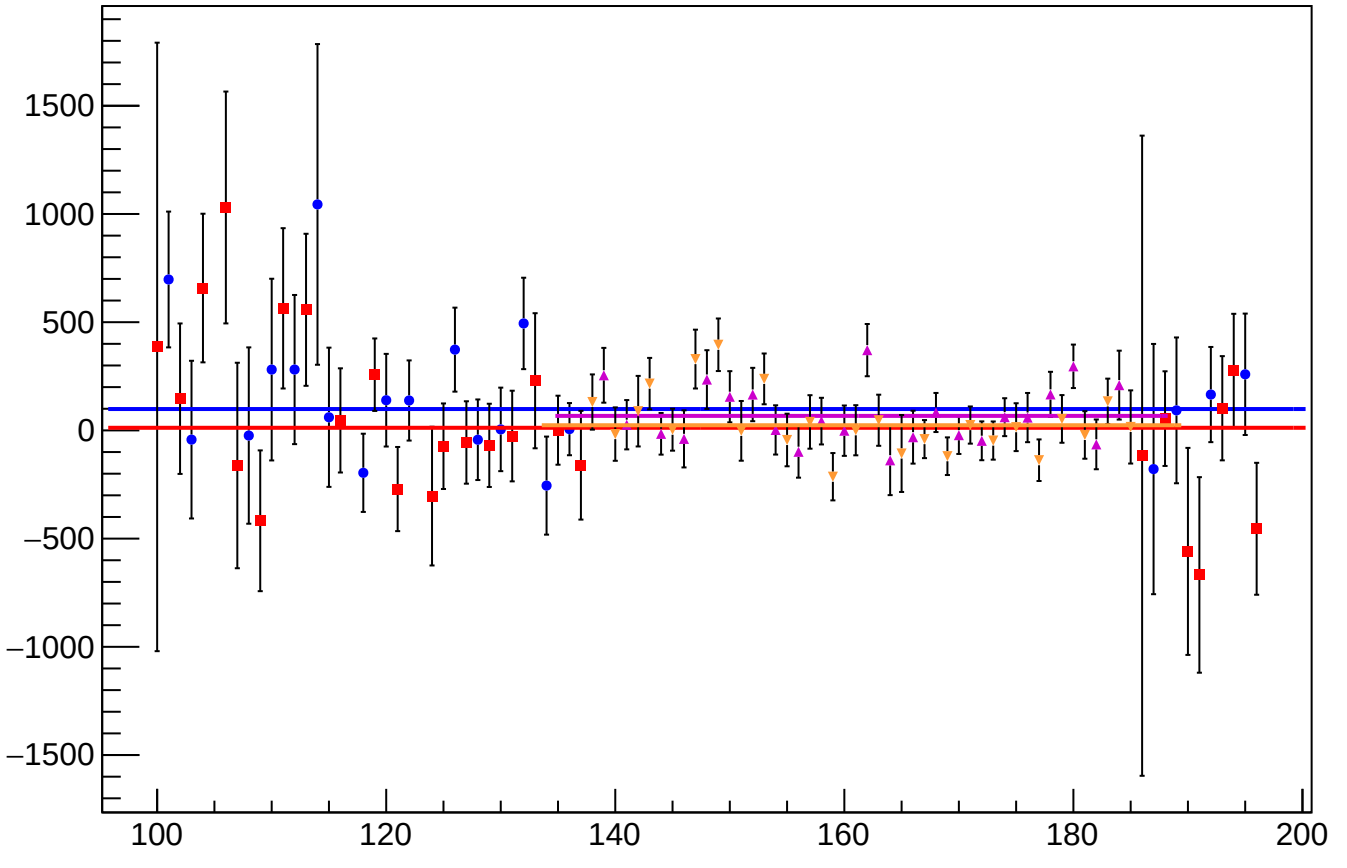
Left: 441.162+/-0.053 $\chi^2$/NDF: 5916696.8/47

Right: 1377.148+/-0.225 $\chi^2$/NDF: 5540417.6/45

In: 488.139+/-0.074 $\chi^2$/NDF:12184882.3/42

Out: 493.548+/-0.072 $\chi^2$/NDF:15708887.8/50

All: 490.899+/-0.052 $\chi^2$/NDF: 27896496.9/93




Right In: 98.751+/-52.052 $\chi^2$/NDF: 18.7/19

Left Out: 23.873+/-22.414 $\chi^2$/NDF:35.2/24

Right Out: 12.089+/-51.247 $\chi^2$/NDF: 27.9/25

Left In: 67.086+/-23.121 $\chi^2$/NDF:28.6/22

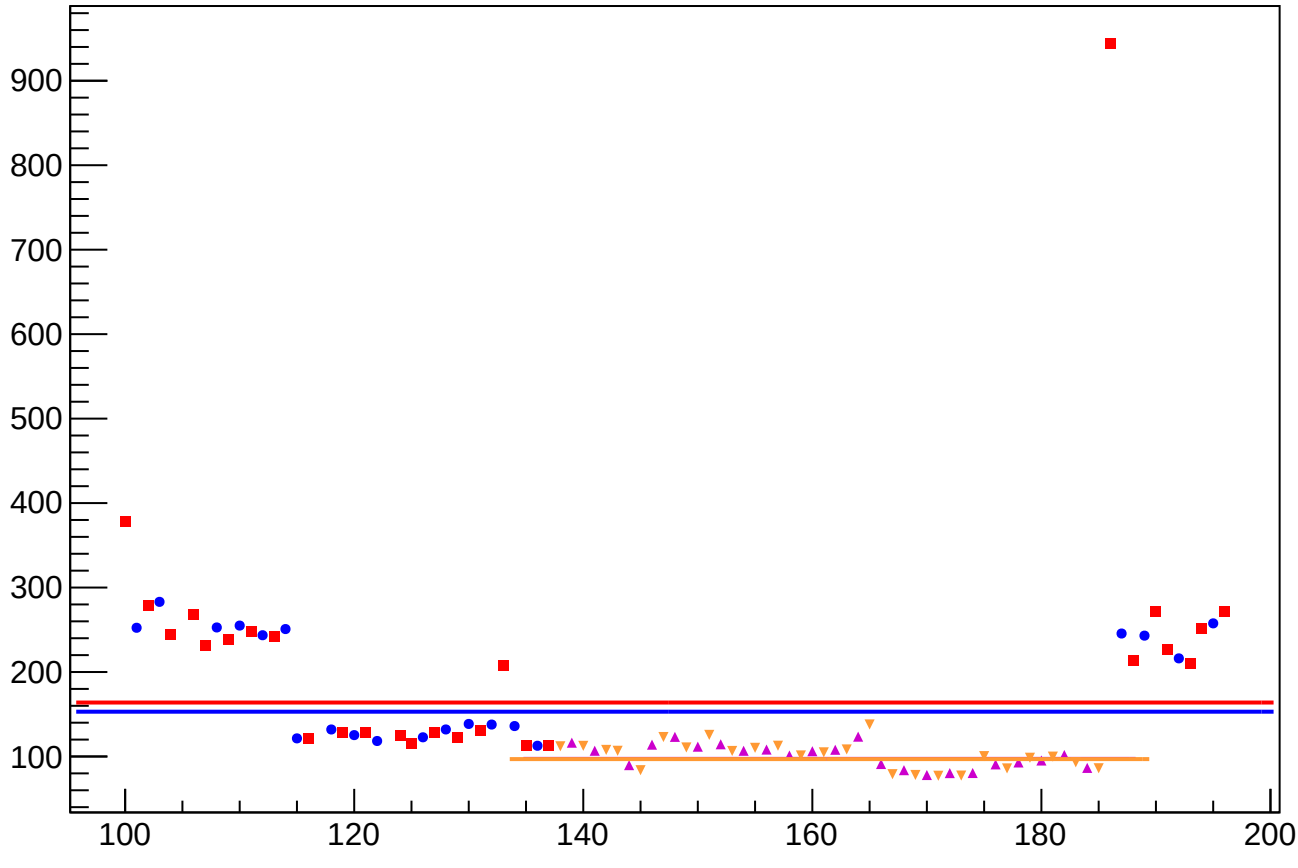
Left: 44.809+/-16.093 $\chi^2$/NDF: 65.6/47

Right: 54.745+/-36.519 $\chi^2$/NDF: 48.0/45

In: 72.304+/-21.130 $\chi^2$/NDF:47.7/42

Out: 21.981+/-20.536 $\chi^2$/NDF:63.1/50

All: 46.425+/-14.727 $\chi^2$/NDF: 113.7/93




Right In: 153.026+/-0.037 $\chi^2$/NDF: 1984168.2/19

Left Out: 96.907+/-0.016 $\chi^2$/NDF:933980.7/24

Right Out: 163.877+/-0.036 $\chi^2$/NDF: 3043925.1/25

Left In: 97.167+/-0.016 $\chi^2$/NDF:674595.2/22

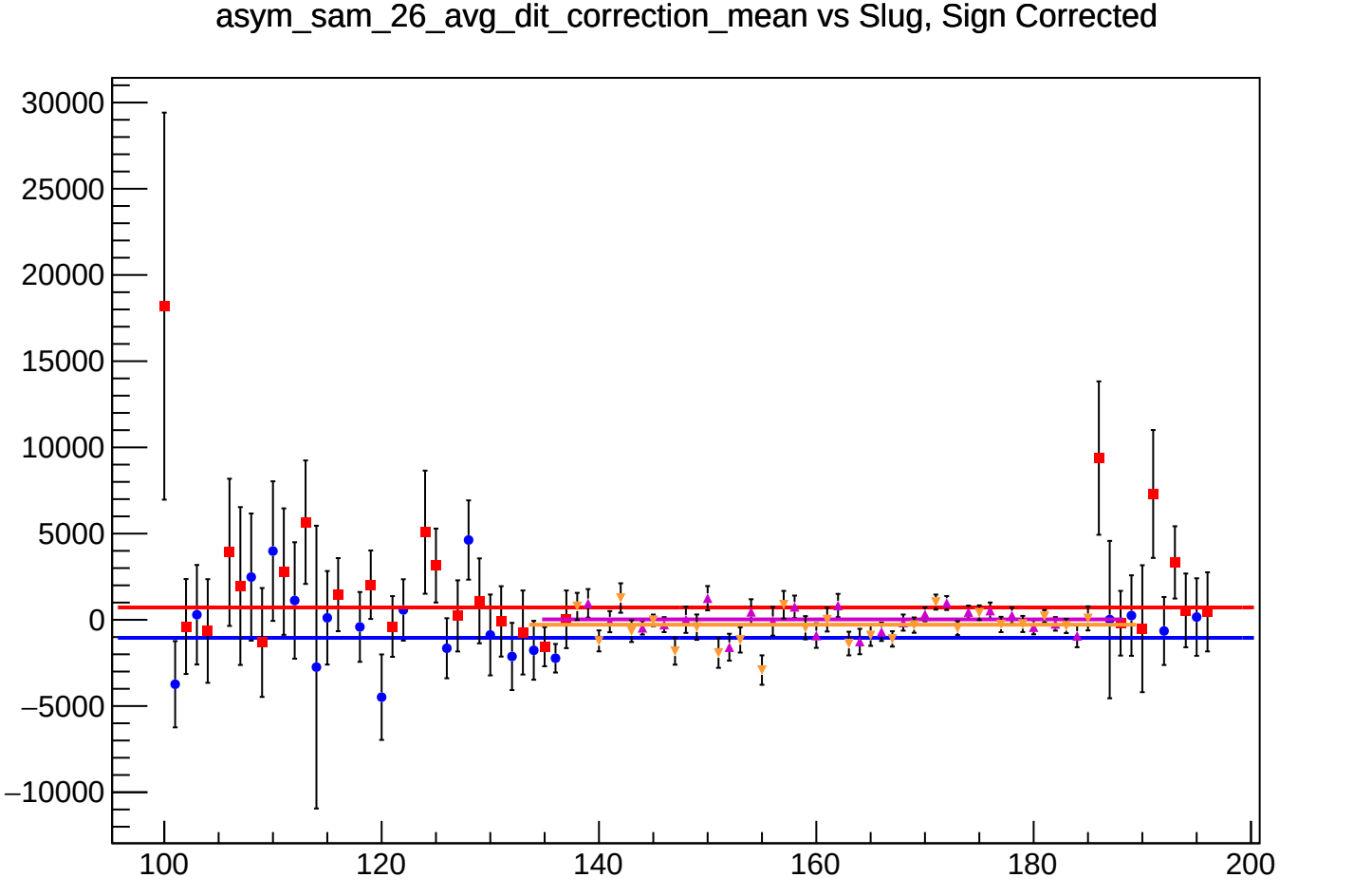
Left: 97.033+/-0.011 $\chi^2$/NDF: 1608706.5/47

Right: 158.536+/-0.026 $\chi^2$/NDF: 5072231.0/45

In: 106.372+/-0.015 $\chi^2$/NDF:4582409.1/42

Out: 107.661+/-0.015 $\chi^2$/NDF:6844879.7/50

All: 107.035+/-0.010 $\chi^2$/NDF: 11431113.7/93




Right In: -1044.785+/-455.086 $\chi^2$/NDF: 16.7/19

Left Out: -282.422+/-106.394 $\chi^2$/NDF:50.4/24

Right Out: 717.108+/-458.266 $\chi^2$/NDF: 23.5/25

Left In: 24.625+/-108.884 $\chi^2$/NDF:32.9/22

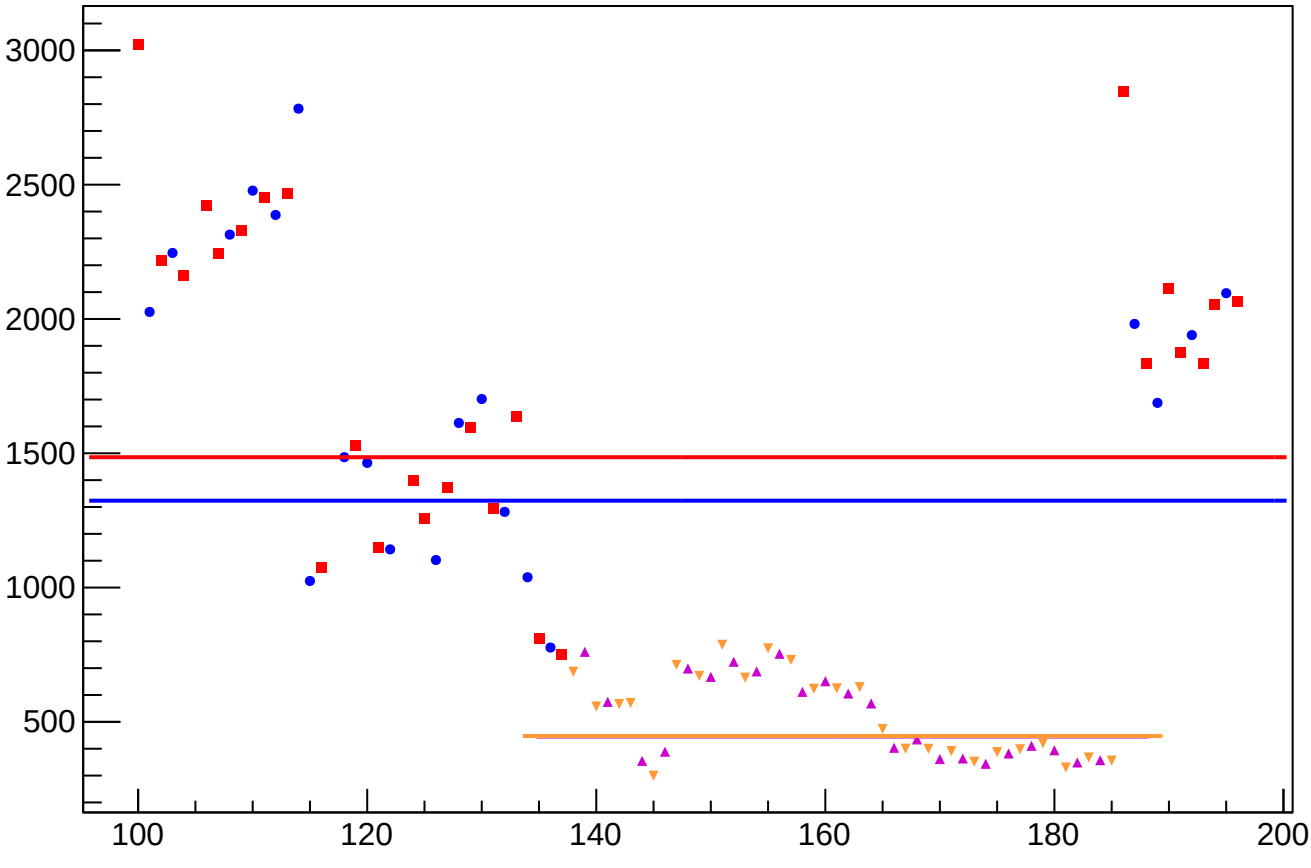
Left: -132.449+/-76.097 $\chi^2$/NDF: 87.4/47

Right: -169.973+/-322.913 $\chi^2$/NDF: 47.6/45

In: -33.278+/-105.895 $\chi^2$/NDF:54.9/42

Out: -231.302+/-103.638 $\chi^2$/NDF:78.4/50

All: -134.423+/-74.068 $\chi^2$/NDF: 135.1/93




Right In: 1323.501+/-0.322 $\chi^2$/NDF: 2562933.6/19

Left Out: 447.386+/-0.075 $\chi^2$/NDF:3197771.9/24

Right Out: 1485.288+/-0.324 $\chi^2$/NDF: 2824479.6/25

Left In: 445.491+/-0.077 $\chi^2$/NDF:2713295.1/22

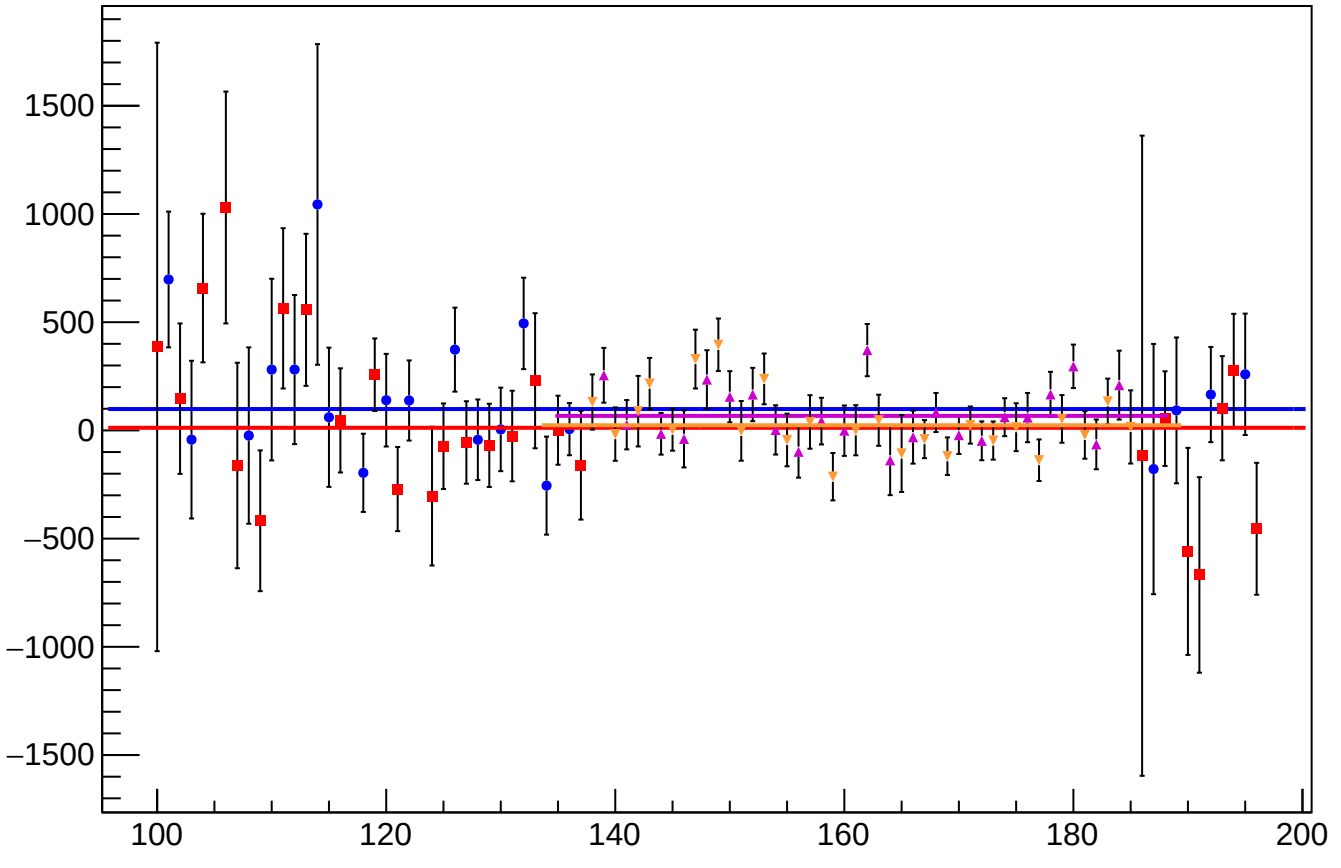
Left: 446.460+/-0.054 $\chi^2$/NDF: 5911376.8/47

Right: 1403.832+/-0.228 $\chi^2$/NDF: 5512919.9/45

In: 493.032+/-0.075 $\chi^2$/NDF:12317759.9/42

Out: 500.469+/-0.073 $\chi^2$/NDF:15756635.0/50

All: 496.830+/-0.052 $\chi^2$/NDF: 28079433.9/93




Right In: 98.752+/-52.052 $\chi^2$/NDF: 18.7/19

Left Out: 23.872+/-22.414 $\chi^2$/NDF:35.2/24

Right Out: 12.090+/-51.247 $\chi^2$/NDF: 27.9/25

Left In: 67.085+/-23.121 $\chi^2$/NDF:28.6/22

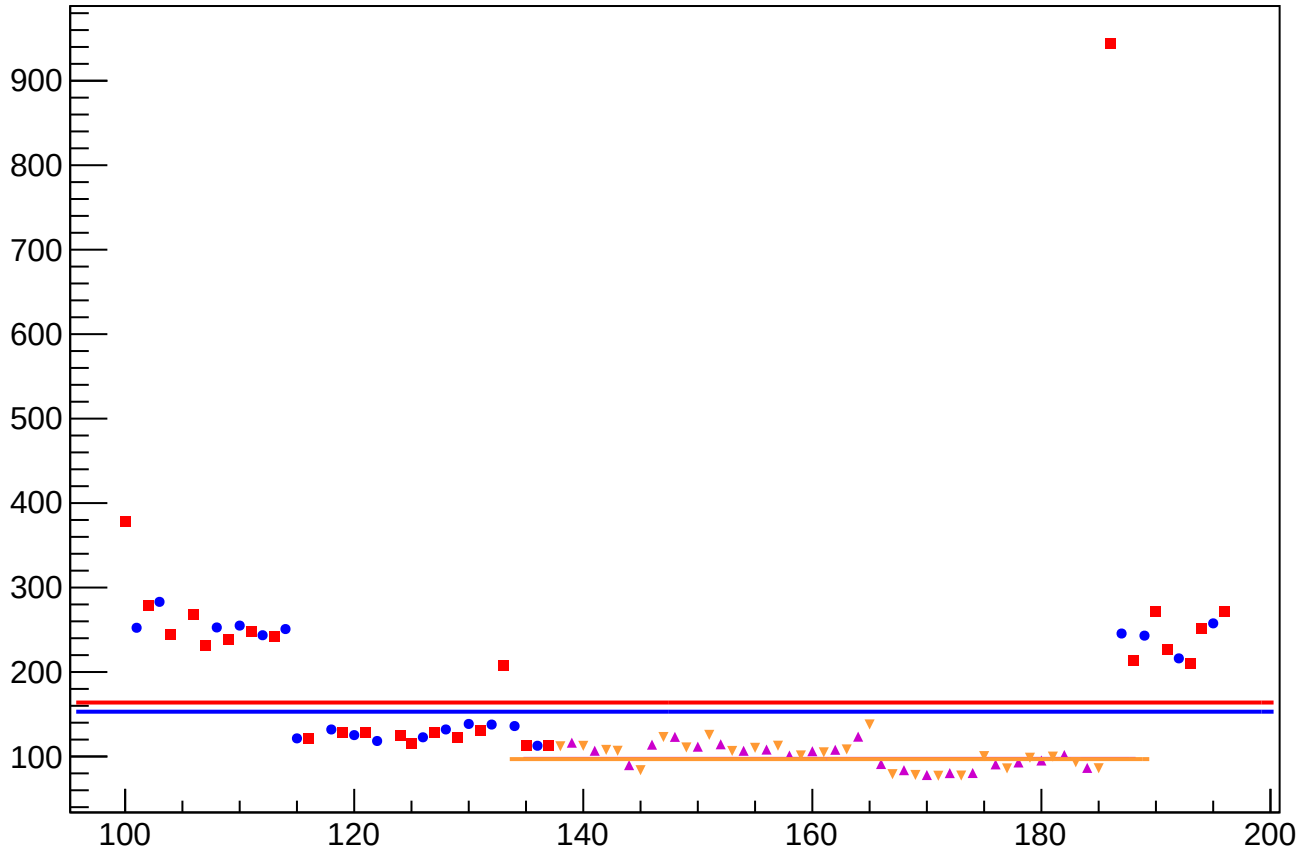
Left: 44.808+/-16.093 $\chi^2$/NDF: 65.6/47

Right: 54.746+/-36.518 $\chi^2$/NDF: 48.0/45

In: 72.304+/-21.130 $\chi^2$/NDF:47.7/42

Out: 21.980+/-20.536 $\chi^2$/NDF:63.1/50

All: 46.424+/-14.727 $\chi^2$/NDF: 113.7/93




Right In: 153.025+/-0.037 $\chi^2$/NDF: 1984166.8/19

Left Out: 96.907+/-0.016 $\chi^2$/NDF:933979.3/24

Right Out: 163.877+/-0.036 $\chi^2$/NDF: 3043919.8/25

Left In: 97.168+/-0.016 $\chi^2$/NDF:674586.0/22

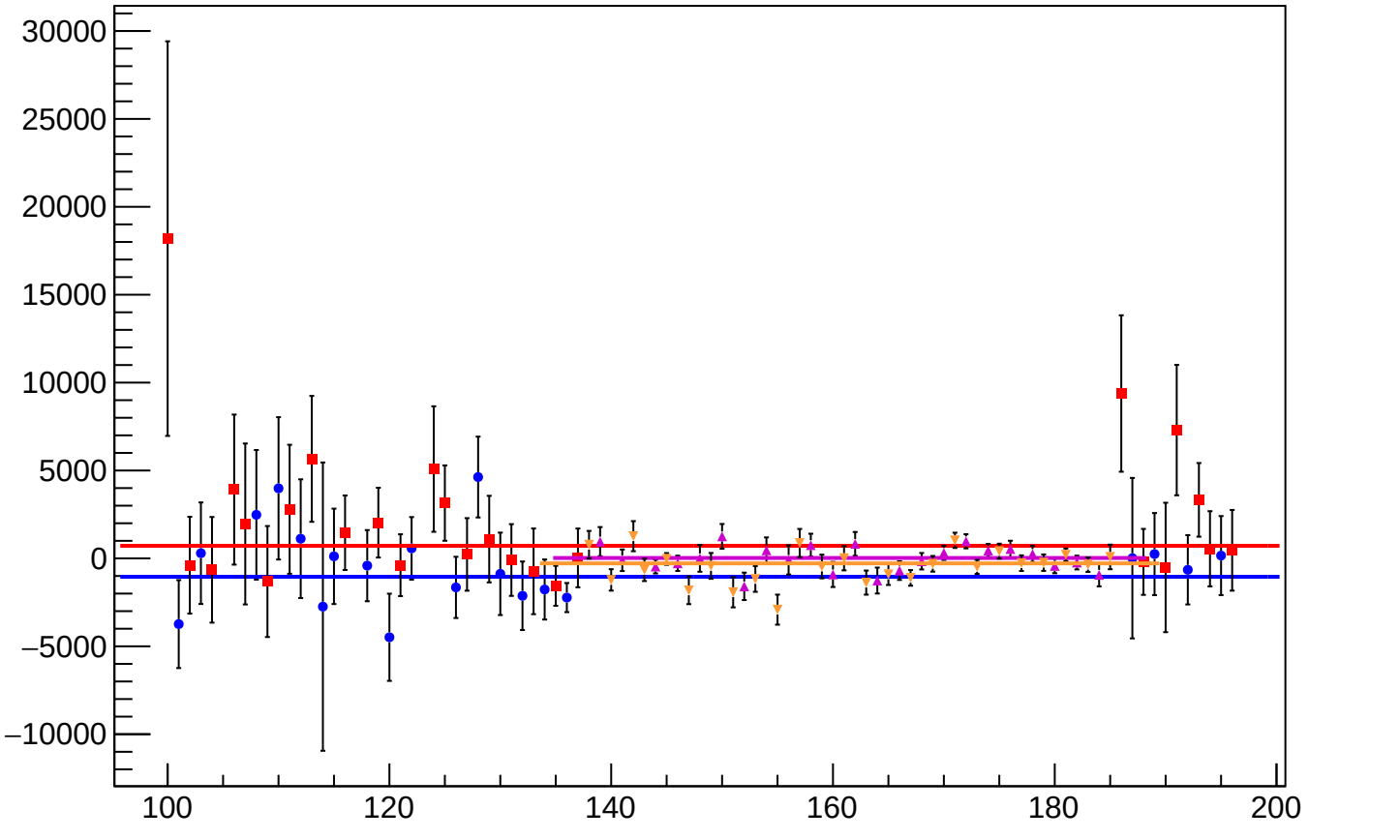
Left: 97.034+/-0.011 $\chi^2$/NDF: 1608696.0/47

Right: 158.535+/-0.026 $\chi^2$/NDF: 5072227.1/45

In: 106.373+/-0.015 $\chi^2$/NDF:4582337.6/42

Out: 107.661+/-0.015 $\chi^2$/NDF:6844825.8/50

All: 107.035+/-0.010 $\chi^2$/NDF: 11430987.9/93




Right In: -1044.782+/-455.085 $\chi^2$/NDF: 16.7/19

Left Out: -282.421+/-106.394 $\chi^2$/NDF:50.4/24

Right Out: 717.109+/-458.265 $\chi^2$/NDF: 23.5/25

Left In: 24.626+/-108.884 $\chi^2$/NDF:32.9/22

Left: -132.448+/-76.097 $\chi^2$/NDF: 87.4/47

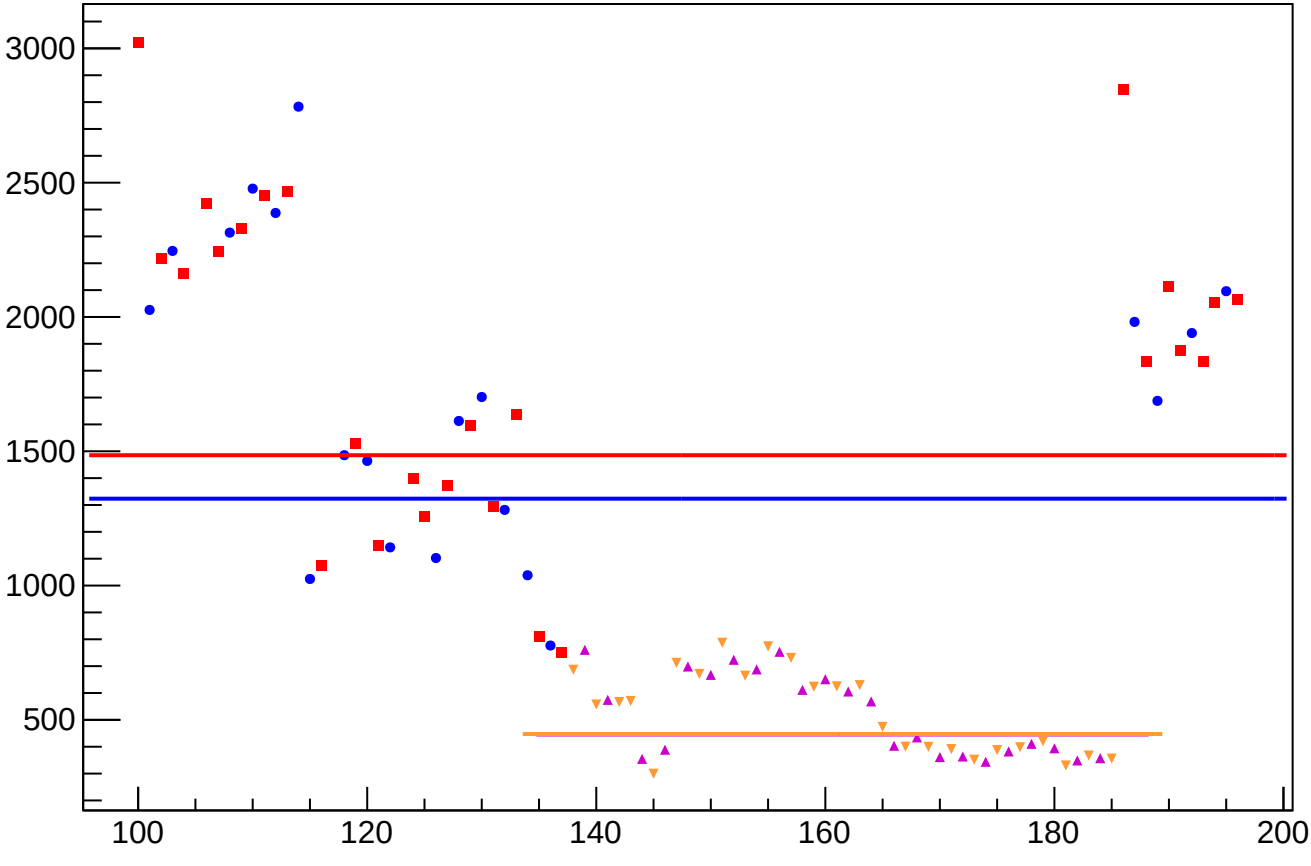
Right: -169.971+/-322.912 $\chi^2$/NDF: 47.6/45

In: -33.278+/-105.895 $\chi^2$/NDF:54.9/42

Out: -231.301+/-103.638 $\chi^2$/NDF:78.4/50

All: -134.422+/-74.068 $\chi^2$/NDF: 135.1/93

asym_sam_26_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1323.501+/-0.322 $\chi^2$/NDF: 2562915.1/19

Left Out: 447.385+/-0.075 $\chi^2$/NDF:3197793.9/24

Right Out: 1485.288+/-0.324 $\chi^2$/NDF: 2824466.2/25

Left In: 445.491+/-0.077 $\chi^2$/NDF:2713303.9/22

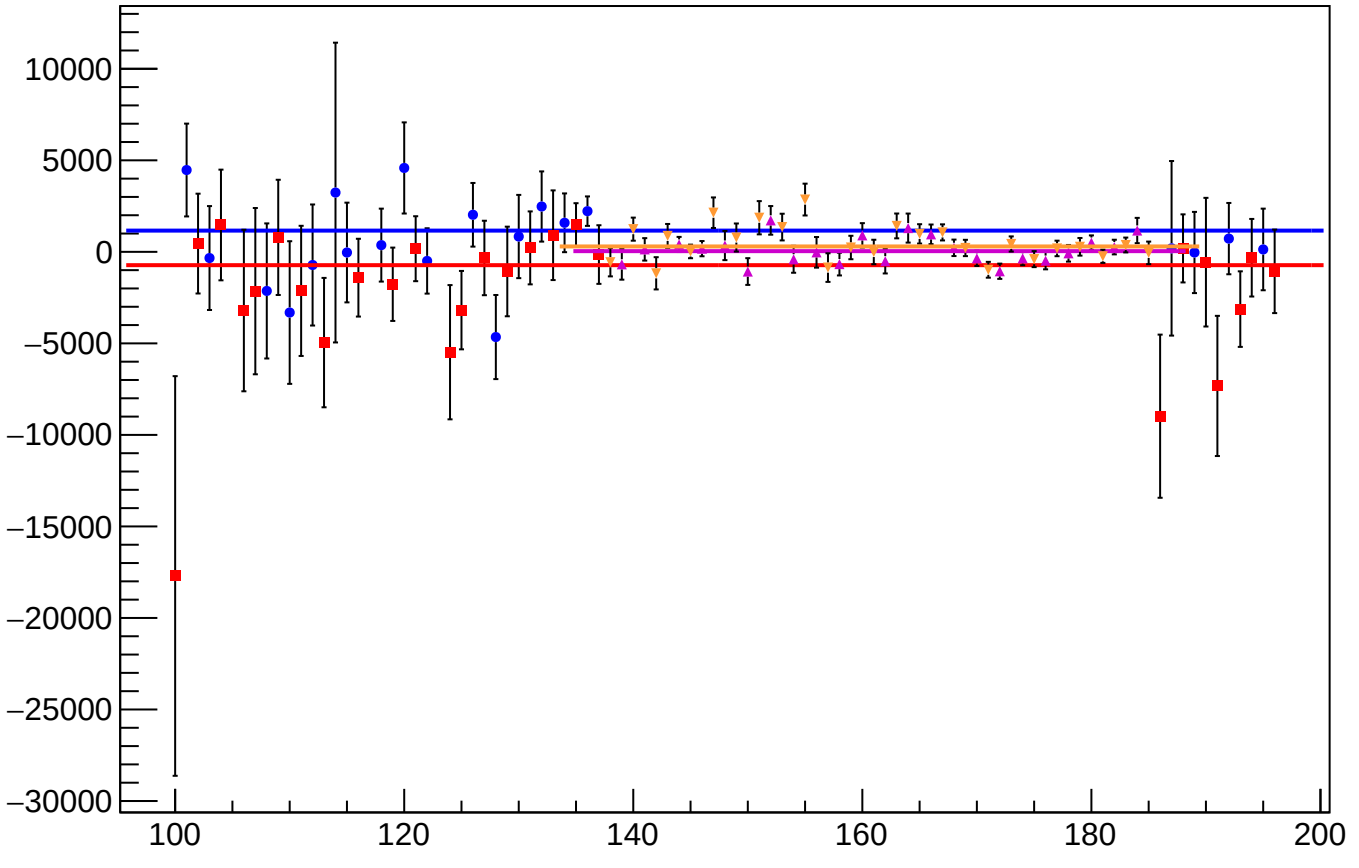
Left: 446.460+/-0.054 $\chi^2$/NDF: 5911407.5/47

Right: 1403.831+/-0.228 $\chi^2$/NDF: 5512887.9/45

In: 493.031+/-0.075 $\chi^2$/NDF:12317759.5/42

Out: 500.469+/-0.073 $\chi^2$/NDF:15756653.8/50

All: 496.830+/-0.052 $\chi^2$/NDF: 28079452.2/93




Right In: 1160.424+/-446.452 $\chi^2$/NDF: 17.1/19

Left Out: 295.006+/-106.810 $\chi^2$/NDF:50.5/24

Right Out: -727.679+/-457.725 $\chi^2$/NDF: 21.4/25

Left In: 38.107+/-109.315 $\chi^2$/NDF:32.9/22

Left: 169.535+/-76.396 $\chi^2$/NDF: 86.3/47

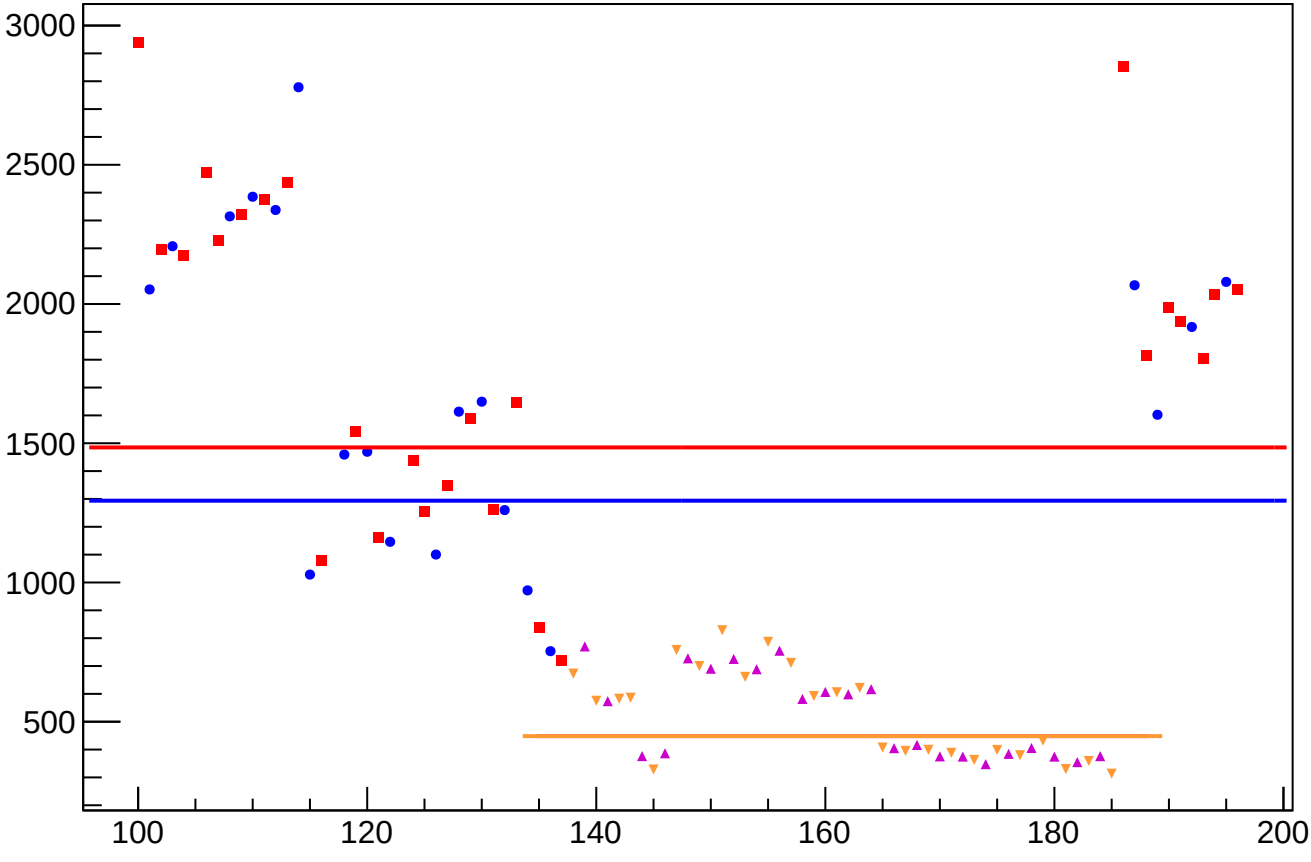
Right: 239.908+/-319.600 $\chi^2$/NDF: 47.3/45

In: 101.587+/-106.179 $\chi^2$/NDF:56.0/42

Out: 242.195+/-104.015 $\chi^2$/NDF:76.7/50

All: 173.338+/-74.303 $\chi^2$/NDF: 133.6/93

# asym_sam_26_avg_rms vs Slug, Sign Corrected




Right In: 1293.737+/-0.316 $\chi^2$/NDF: 2658277.3/19

Left Out: 448.278+/-0.076 $\chi^2$/NDF:3156909.8/24

Right Out: 1484.999+/-0.324 $\chi^2$/NDF: 2740003.4/25

Left In: 448.397+/-0.077 $\chi^2$/NDF:2620759.6/22

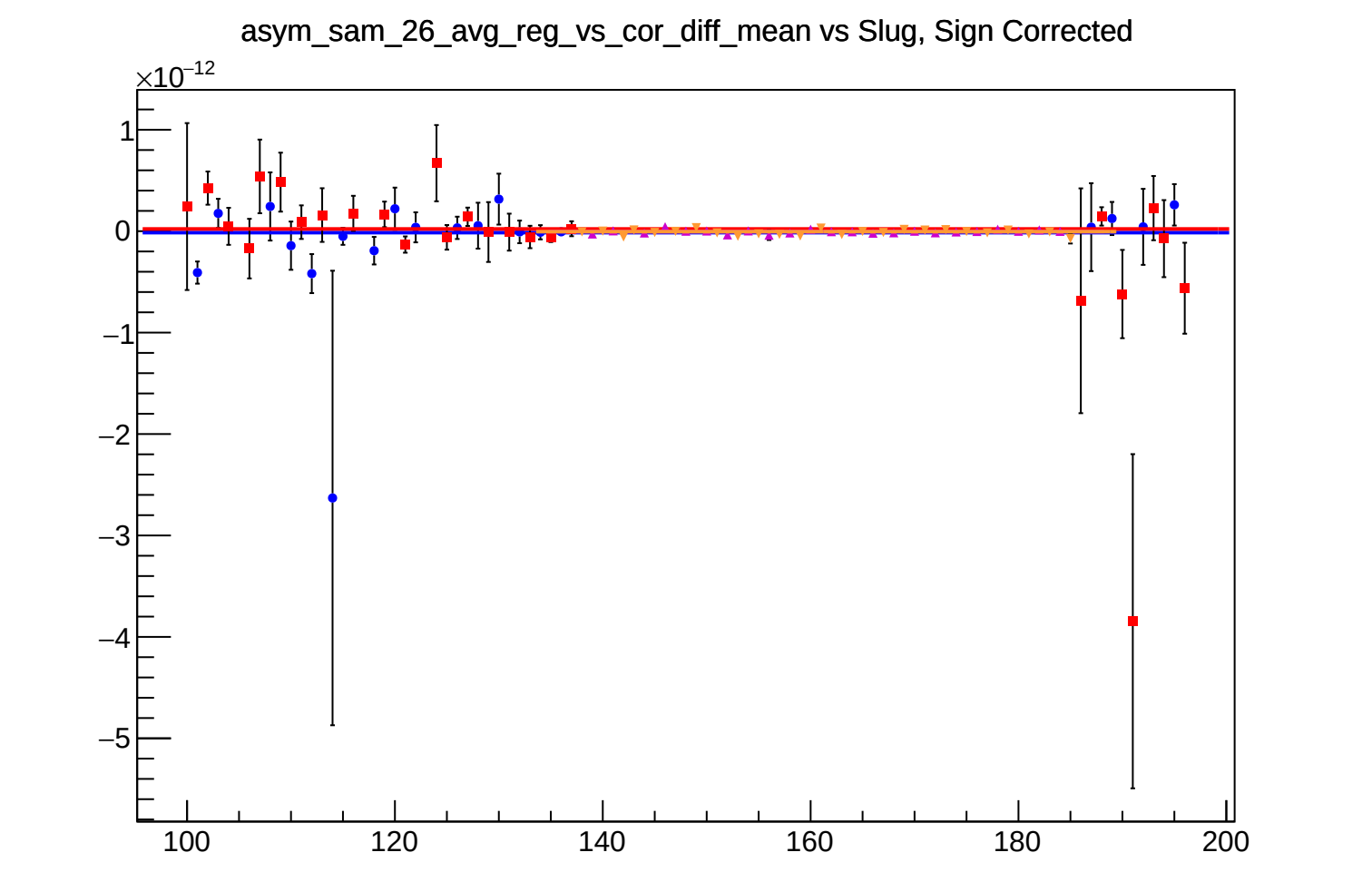
Left: 448.336+/-0.054 $\chi^2$/NDF: 5777670.6/47

Right: 1386.983+/-0.226 $\chi^2$/NDF: 5577235.2/45

In: 496.211+/-0.075 $\chi^2$/NDF:12043852.4/42

Out: 501.815+/-0.074 $\chi^2$/NDF:15627015.4/50

All: 499.071+/-0.053 $\chi^2$/NDF: 27673709.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:23.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 37.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.7/22

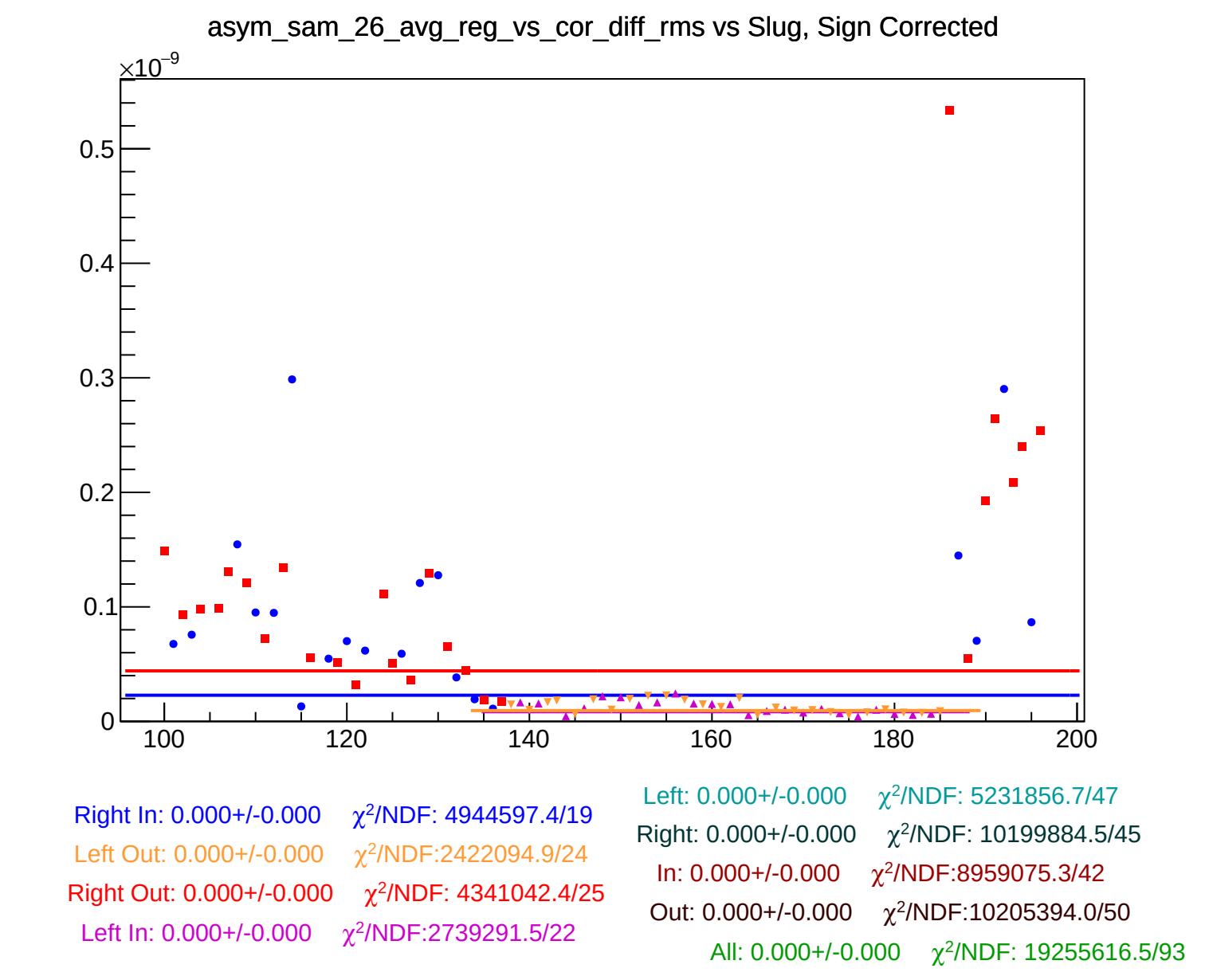
Left: -0.000+/-0.000 $\chi^2$/NDF: 39.9/47

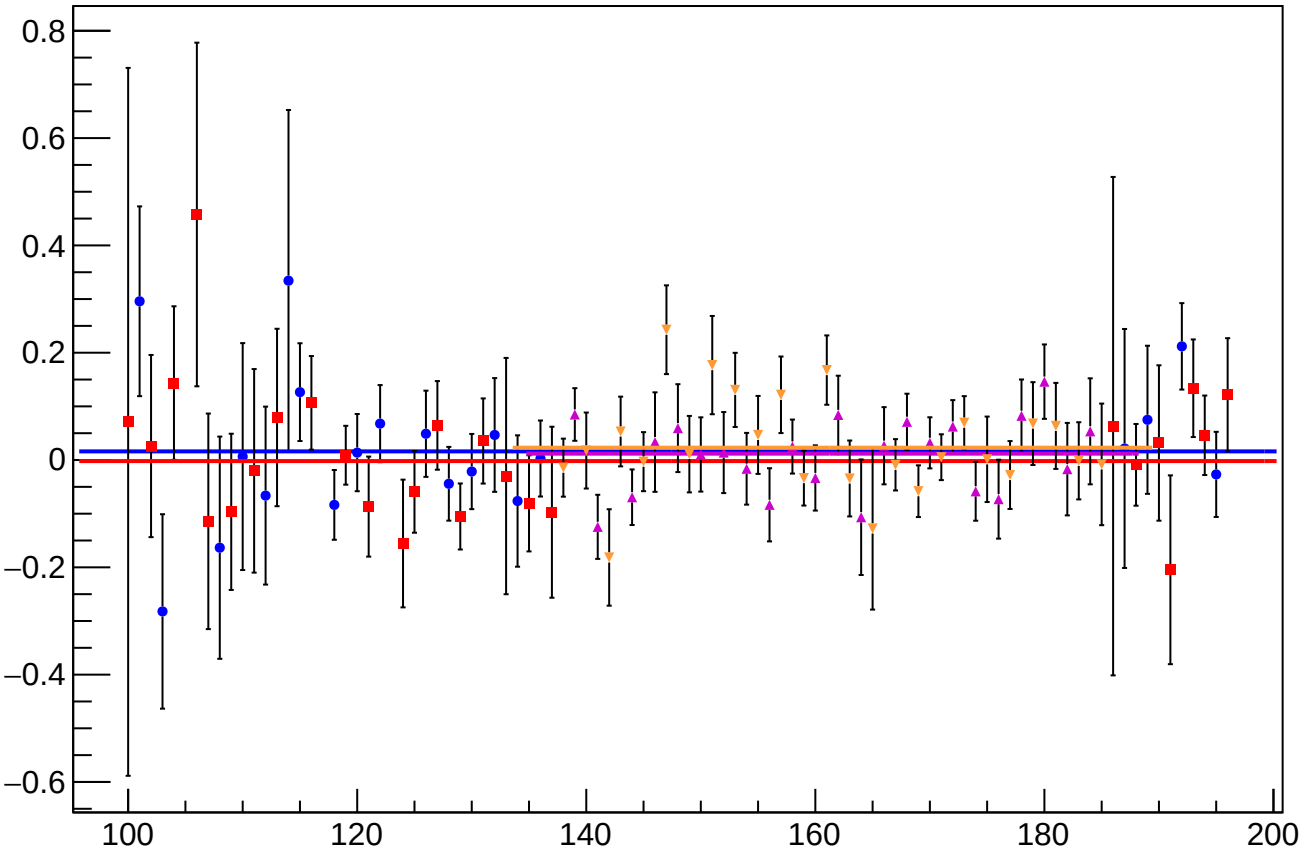
Right: -0.000+/-0.000 $\chi^2$/NDF: 68.6/45

In: -0.000+/-0.000 $\chi^2$/NDF:46.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:62.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 108.5/93


asym_sam_26_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4944597.4/19
Left Out: 0.000+/-0.000 χ²/NDF:2422094.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 4341042.4/25
Left In: 0.000+/-0.000 χ²/NDF:2739291.5/22
Left: 0.000+/-0.000 χ²/NDF: 5231856.7/47
Right: 0.000+/-0.000 χ²/NDF: 10199884.5/45
In: 0.000+/-0.000 χ²/NDF:8959075.3/42
Out: 0.000+/-0.000 χ²/NDF:10205394.0/50
All: 0.000+/-0.000 χ²/NDF: 19255616.5/93




Right In: 0.016+/-0.021 $\chi^2$/NDF: 19.9/19

Left Out: 0.023+/-0.013 $\chi^2$/NDF:34.2/24

Right Out: -0.002+/-0.020 $\chi^2$/NDF: 19.0/25

Left In: 0.012+/-0.013 $\chi^2$/NDF:25.9/22

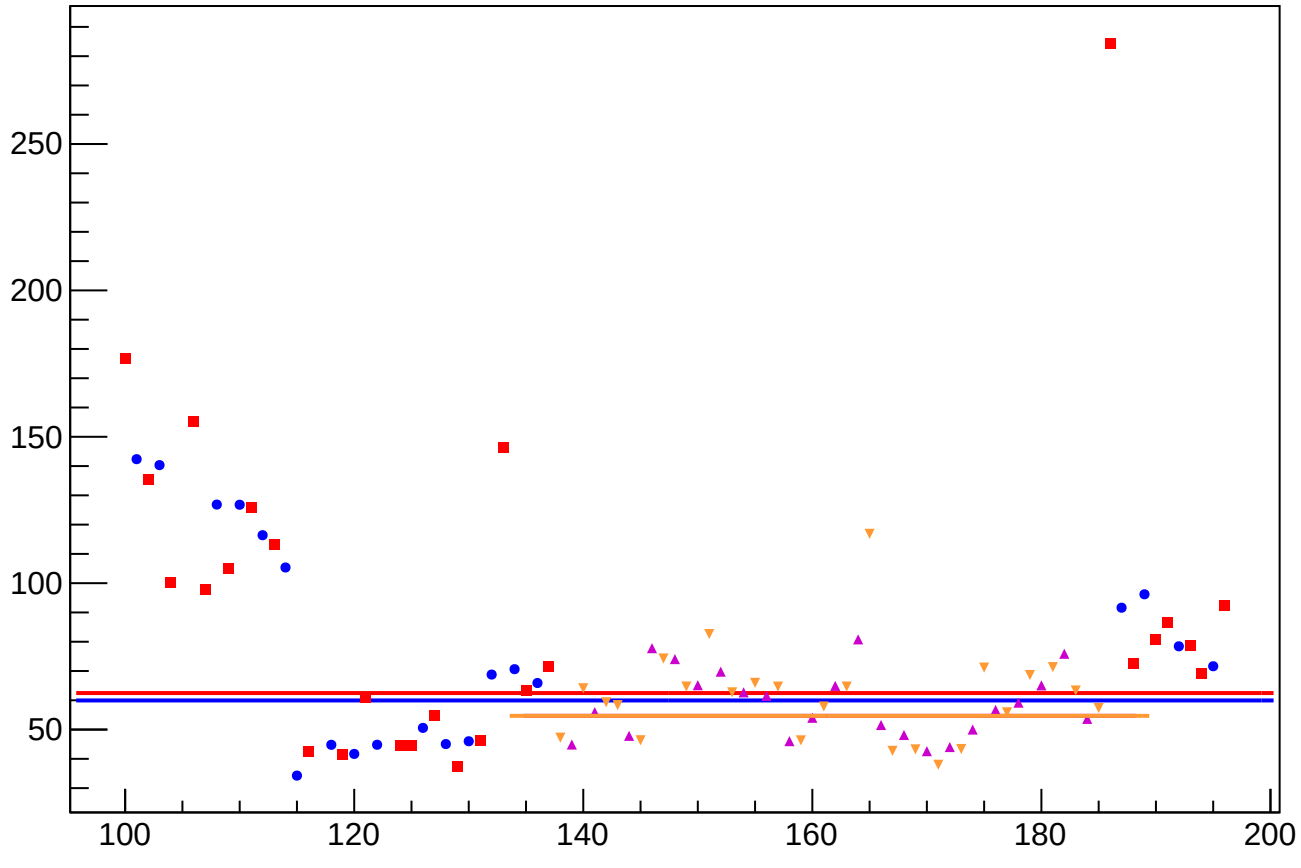
Left: 0.018+/-0.009 $\chi^2$/NDF: 60.4/47

Right: 0.007+/-0.015 $\chi^2$/NDF: 39.3/45

In: 0.013+/-0.011 $\chi^2$/NDF:45.8/42

Out: 0.016+/-0.011 $\chi^2$/NDF:54.3/50

All: 0.014+/-0.008 $\chi^2$/NDF: 100.1/93




Right In: 59.944+/-0.015 $\chi^2$/NDF: 2564831.6/19

Left Out: 54.686+/-0.009 $\chi^2$/NDF:1936559.5/24

Right Out: 62.472+/-0.014 $\chi^2$/NDF: 3474160.8/25

Left In: 54.688+/-0.009 $\chi^2$/NDF:1190787.0/22

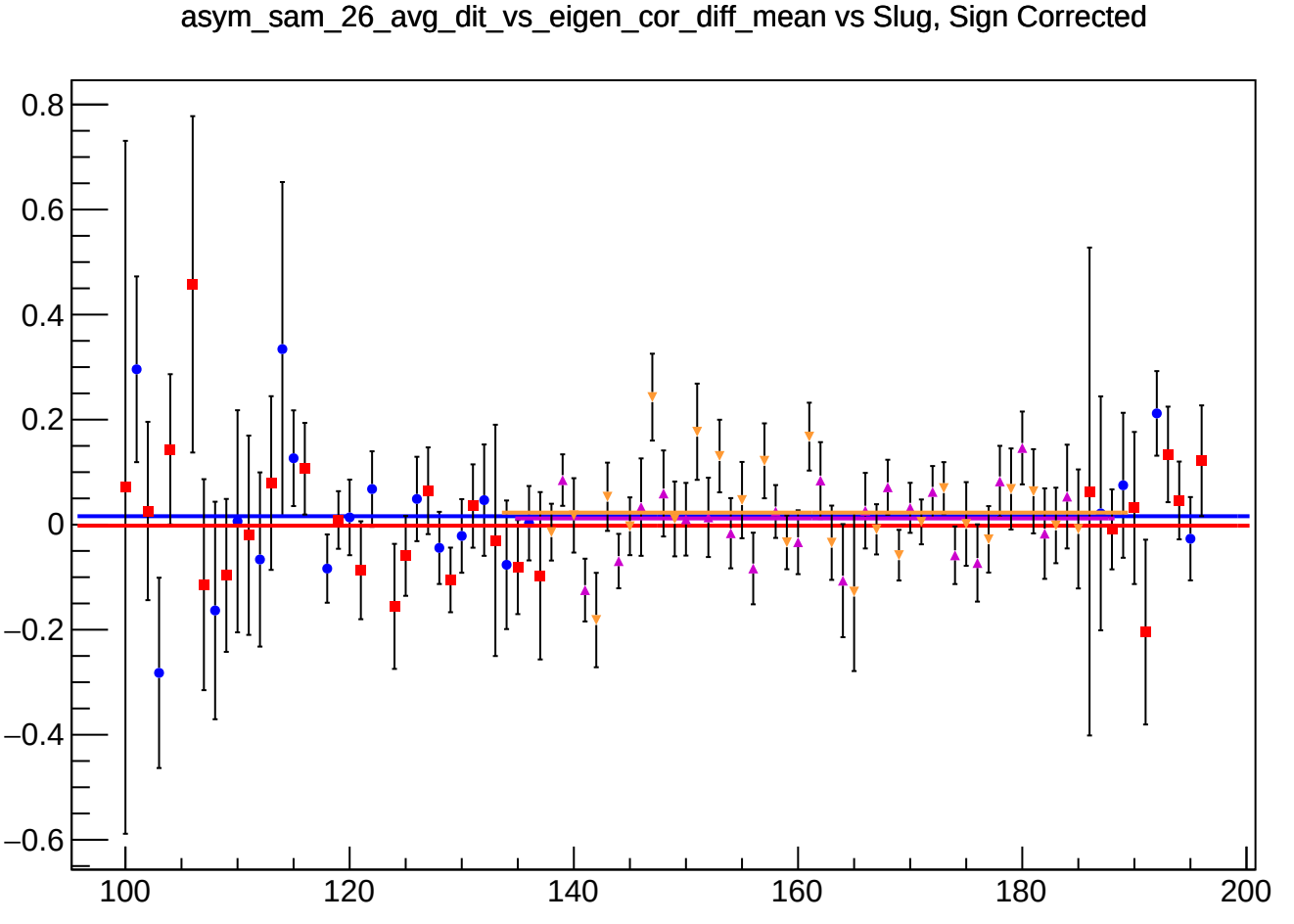
Left: 54.687+/-0.007 $\chi^2$/NDF: 3127346.5/47

Right: 61.275+/-0.010 $\chi^2$/NDF: 6053865.2/45

In: 56.158+/-0.008 $\chi^2$/NDF:3843528.8/42

Out: 56.954+/-0.008 $\chi^2$/NDF:5621964.4/50

All: 56.569+/-0.006 $\chi^2$/NDF: 9470658.4/93




Right In: 0.016+/-0.021 $\chi^2$/NDF: 19.9/19

Left Out: 0.023+/-0.013 $\chi^2$/NDF:34.2/24

Right Out: -0.002+/-0.020 $\chi^2$/NDF: 19.0/25

Left In: 0.012+/-0.013 $\chi^2$/NDF:25.9/22

Left: 0.018+/-0.009 $\chi^2$/NDF: 60.4/47

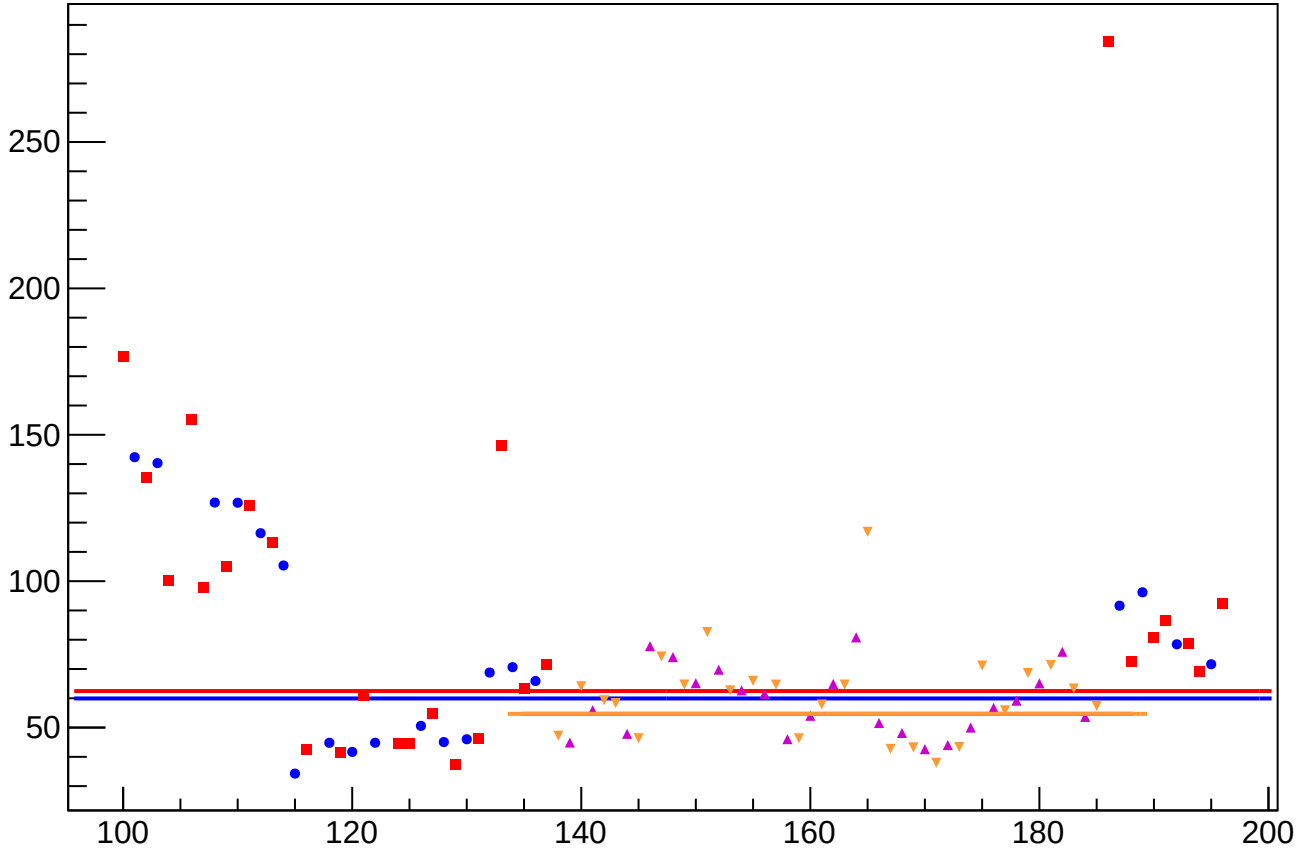
Right: 0.007+/-0.015 $\chi^2$/NDF: 39.3/45

In: 0.013+/-0.011 $\chi^2$/NDF:45.8/42

Out: 0.016+/-0.011 $\chi^2$/NDF:54.3/50

All: 0.014+/-0.008 $\chi^2$/NDF: 100.1/93

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.944+/-0.015 $\chi^2$/NDF: 2564831.6/19

Left Out: 54.686+/-0.009 $\chi^2$/NDF:1936559.5/24

Right Out: 62.472+/-0.014 $\chi^2$/NDF: 3474160.8/25

Left In: 54.688+/-0.009 $\chi^2$/NDF:1190787.0/22

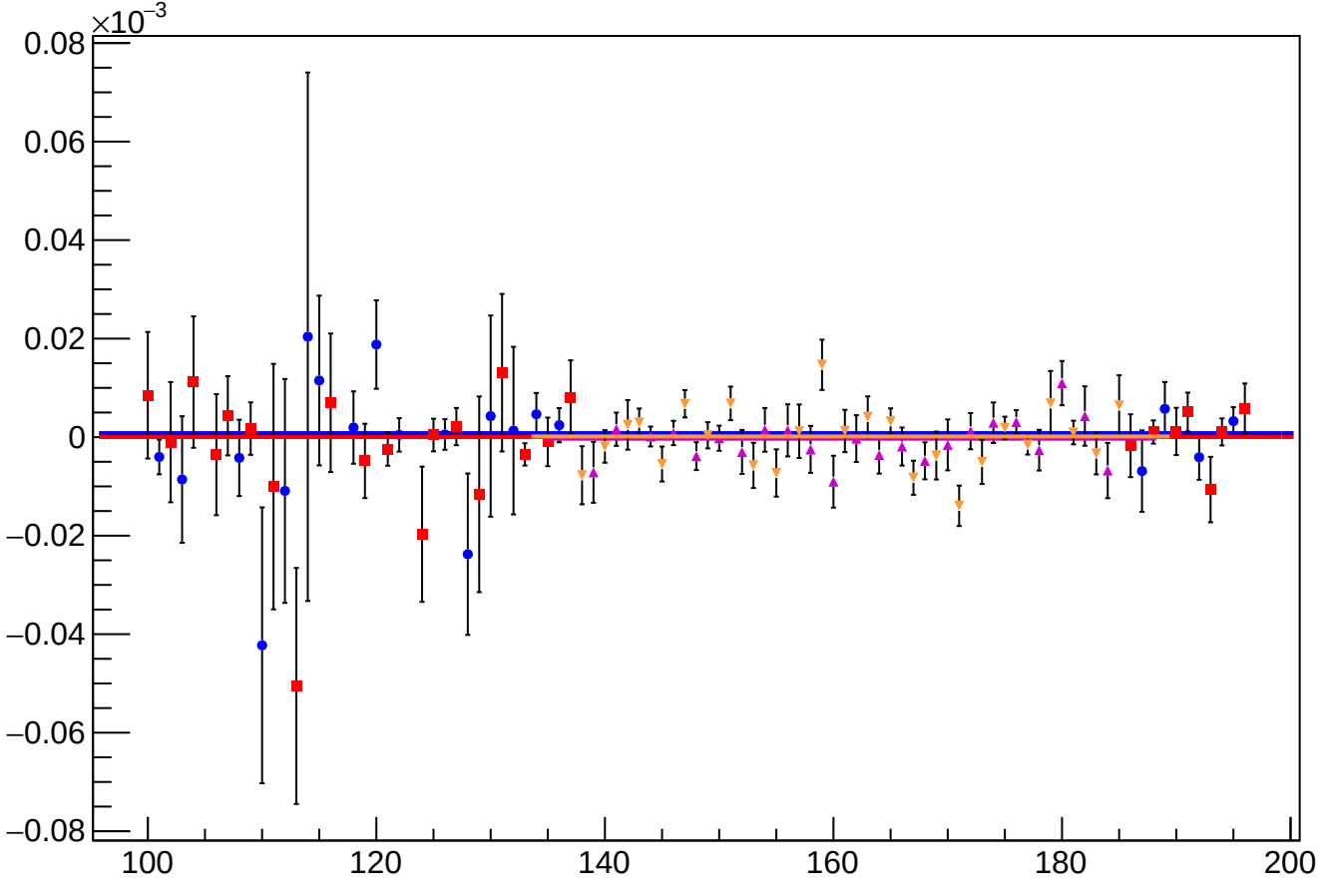
Left: 54.687+/-0.007 $\chi^2$/NDF: 3127346.5/47

Right: 61.275+/-0.010 $\chi^2$/NDF: 6053865.2/45

In: 56.158+/-0.008 $\chi^2$/NDF:3843528.8/42

Out: 56.954+/-0.008 $\chi^2$/NDF:5621964.4/50

All: 56.569+/-0.006 $\chi^2$/NDF: 9470658.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:53.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 20.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.7/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 74.6/47

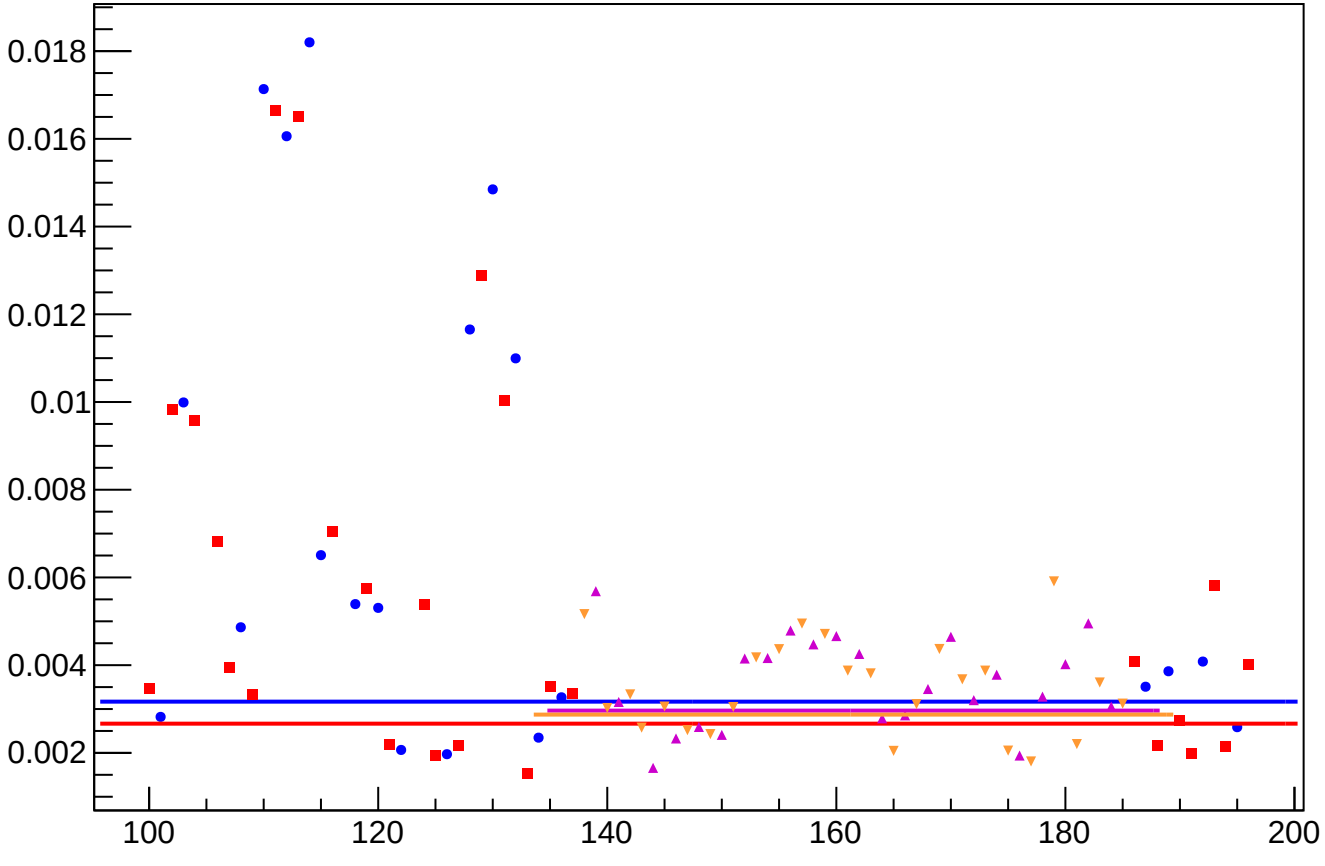
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:38.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:74.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 112.5/93

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 4745327.9/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3602368.5/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 6063429.9/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:3619016.3/22

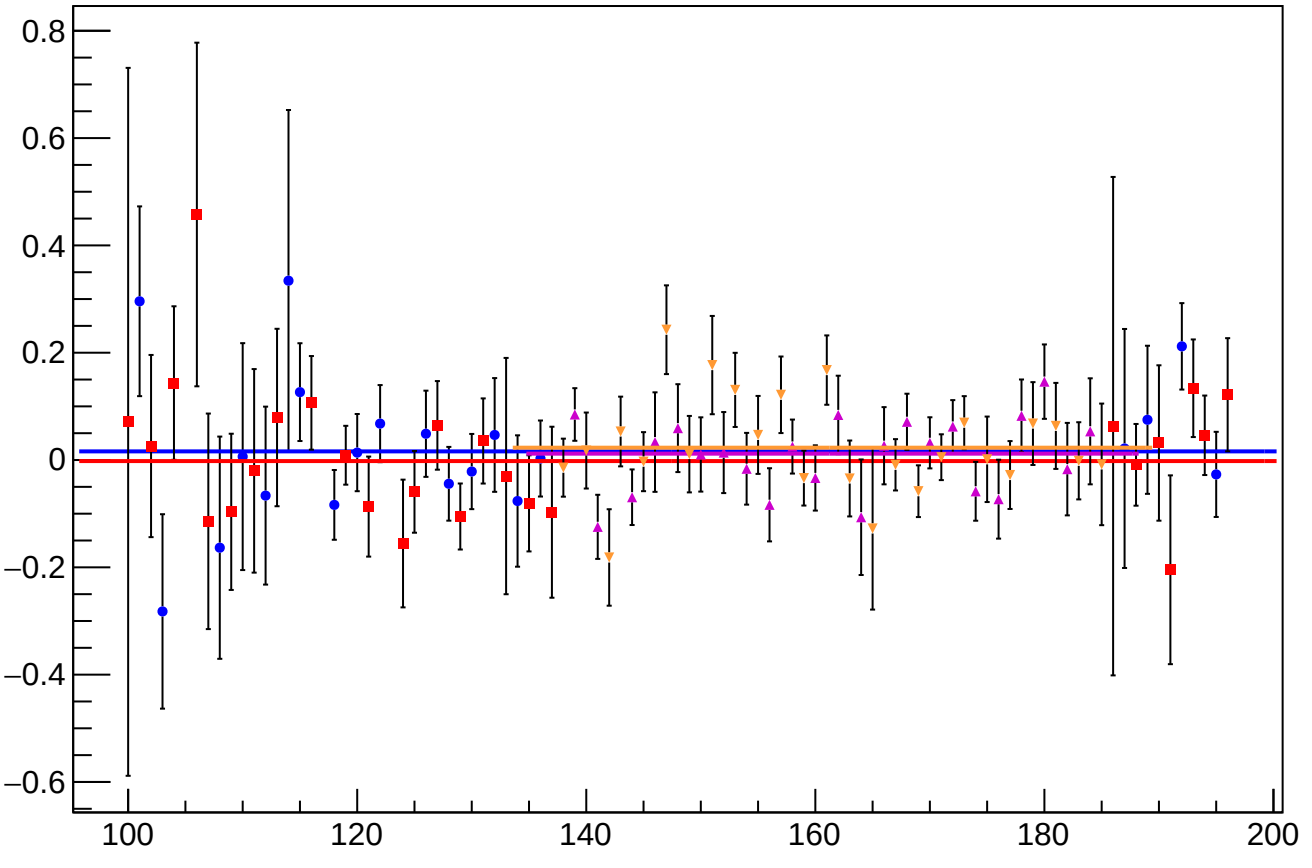
Left: 0.003+/-0.000 $\chi^2$/NDF: 7237301.1/47

Right: 0.003+/-0.000 $\chi^2$/NDF: 11025701.7/45

In: 0.003+/-0.000 $\chi^2$/NDF:8406266.0/42

Out: 0.003+/-0.000 $\chi^2$/NDF:9728190.5/50

All: 0.003+/-0.000 $\chi^2$/NDF: 18270799.5/93




Right In: 0.016+/-0.021 $\chi^2$/NDF: 19.9/19

Left Out: 0.023+/-0.013 $\chi^2$/NDF:34.2/24

Right Out: -0.002+/-0.020 $\chi^2$/NDF: 19.0/25

Left In: 0.012+/-0.013 $\chi^2$/NDF:25.9/22

Left: 0.018+/-0.009 $\chi^2$/NDF: 60.4/47

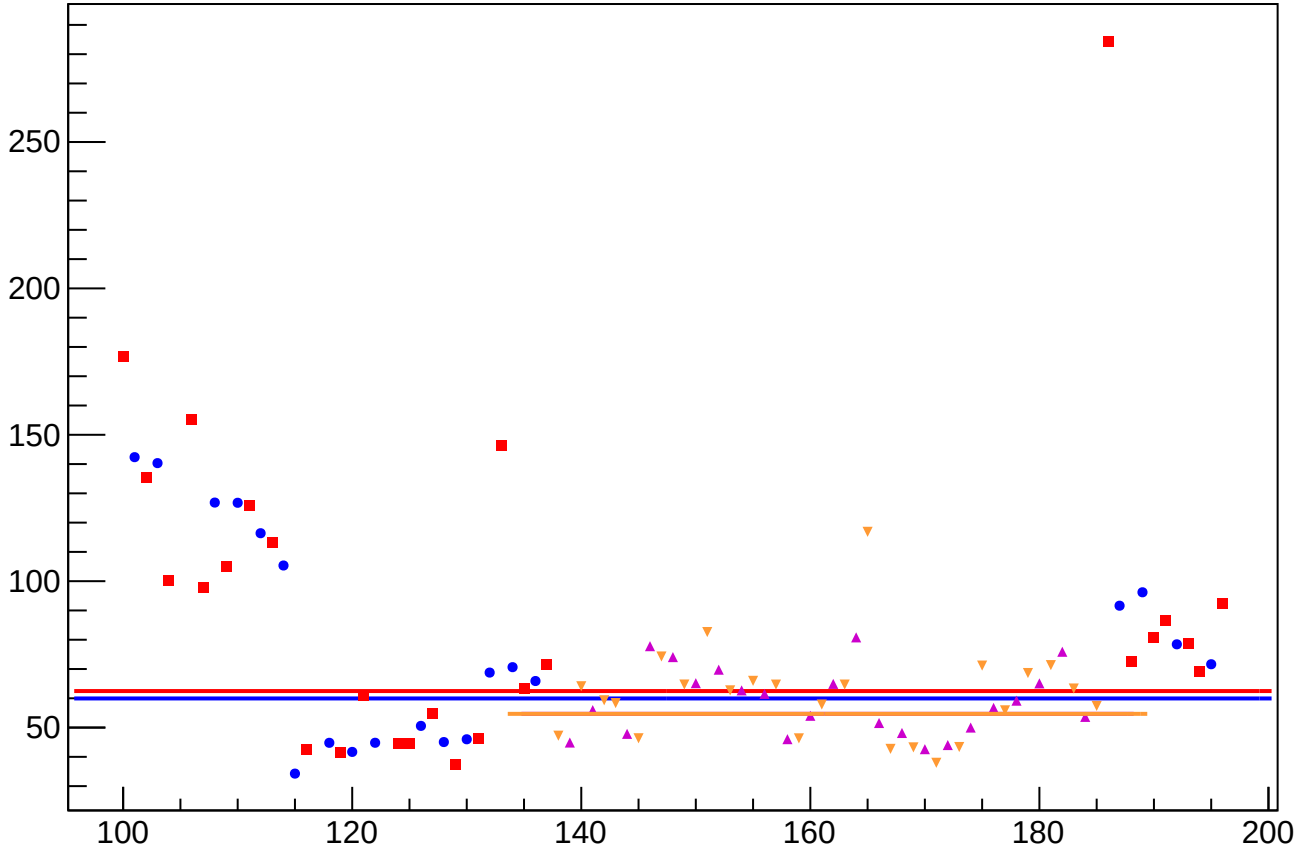
Right: 0.007+/-0.015 $\chi^2$/NDF: 39.3/45

In: 0.013+/-0.011 $\chi^2$/NDF:45.8/42

Out: 0.016+/-0.011 $\chi^2$/NDF:54.3/50

All: 0.014+/-0.008 $\chi^2$/NDF: 100.1/93

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.944+/-0.015 $\chi^2$/NDF: 2564795.8/19

Left Out: 54.686+/-0.009 $\chi^2$/NDF:1936555.1/24

Right Out: 62.471+/-0.014 $\chi^2$/NDF: 3474129.1/25

Left In: 54.689+/-0.009 $\chi^2$/NDF:1190755.4/22

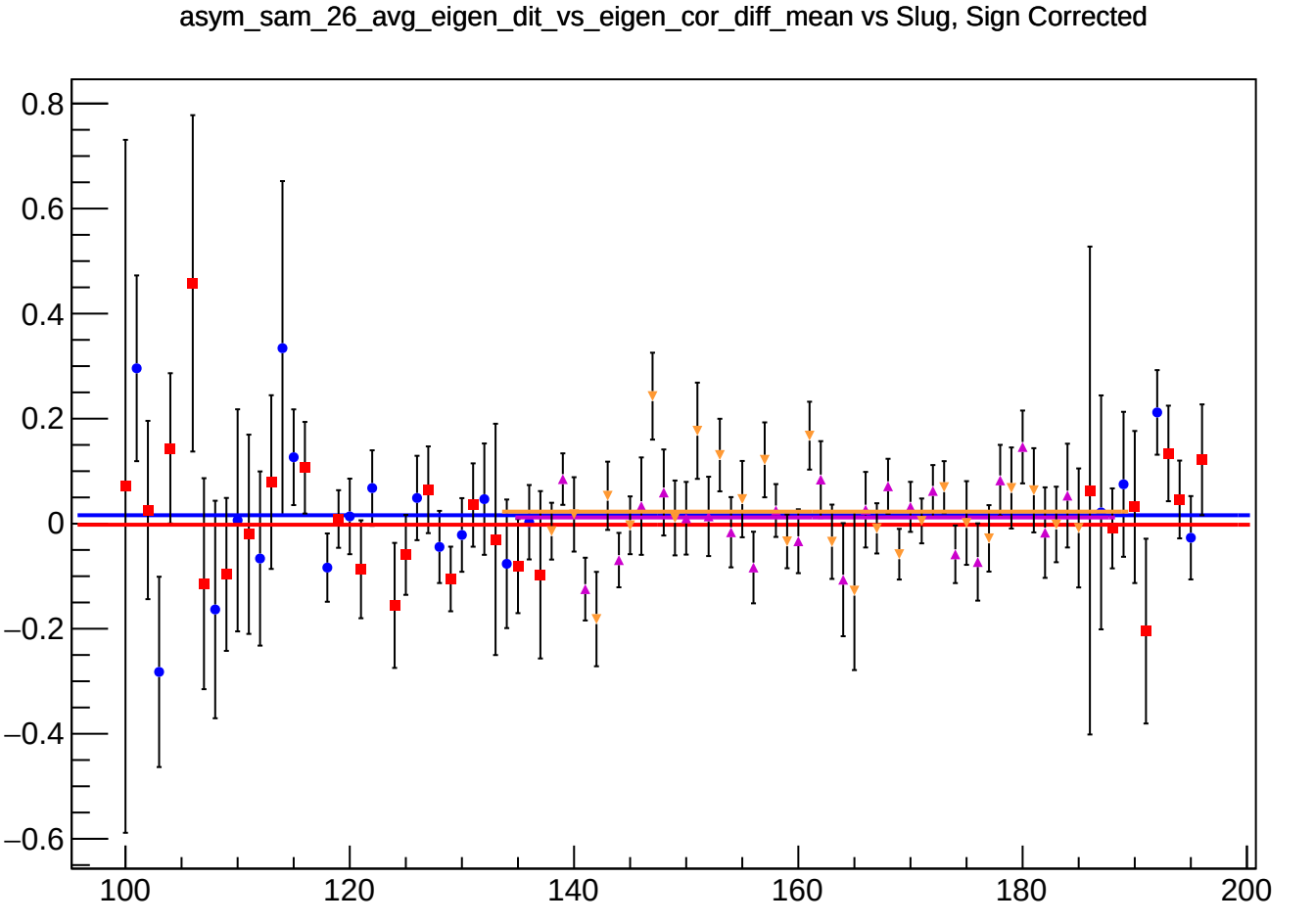
Left: 54.688+/-0.007 $\chi^2$/NDF: 3127310.5/47

Right: 61.275+/-0.010 $\chi^2$/NDF: 6053796.3/45

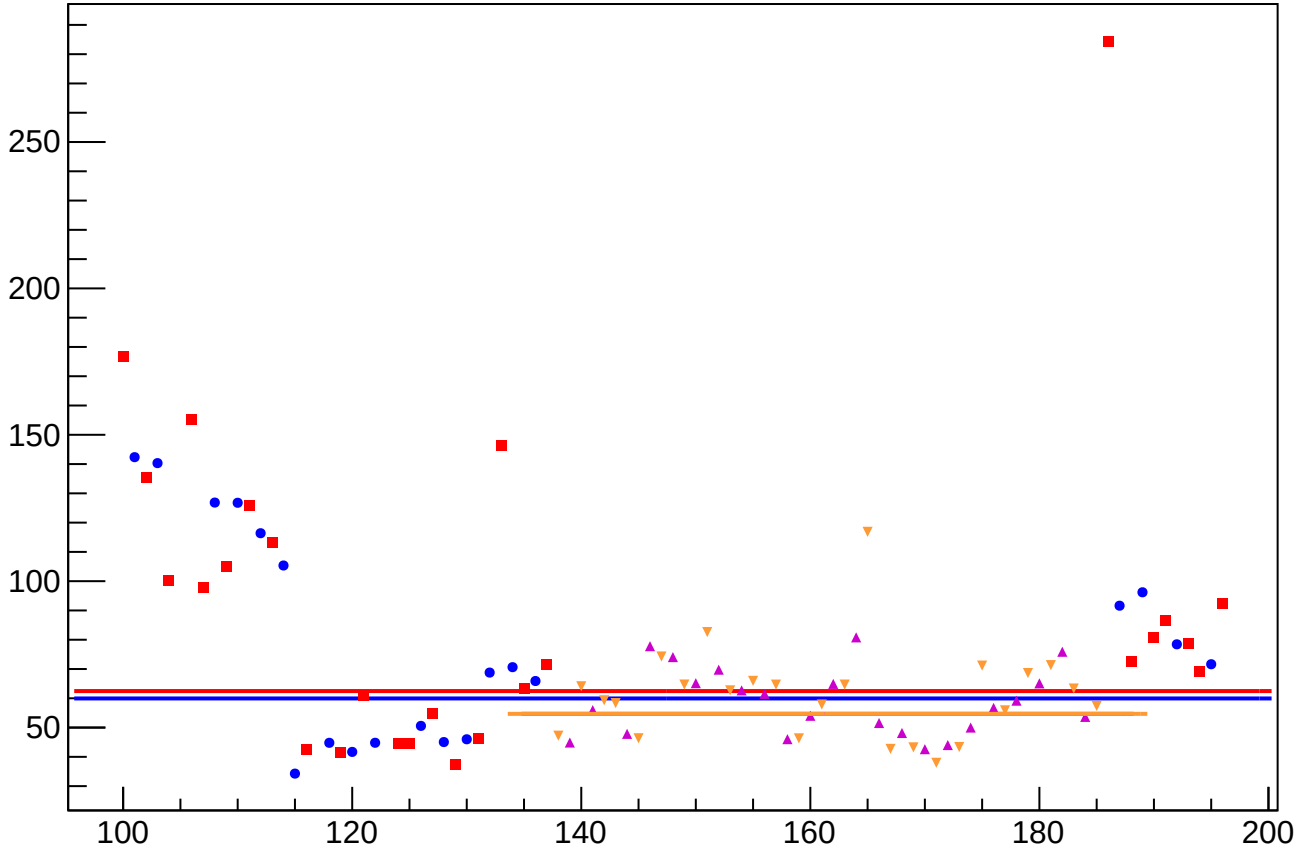
In: 56.159+/-0.008 $\chi^2$/NDF:3843433.0/42

Out: 56.954+/-0.008 $\chi^2$/NDF:5621881.9/50

All: 56.570+/-0.006 $\chi^2$/NDF: 9470478.5/93


asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
100
120
140
160
180
200
Right In: 0.016+/-0.021 χ²/NDF: 19.9/19
Left Out: 0.023+/-0.013 χ²/NDF:34.2/24
Right Out: -0.002+/-0.020 χ²/NDF: 19.0/25
Left In: 0.012+/-0.013 χ²/NDF:25.9/22
Left: 0.018+/-0.009 χ²/NDF: 60.4/47
Right: 0.007+/-0.015 χ²/NDF: 39.3/45
In: 0.013+/-0.011 χ²/NDF:45.8/42
Out: 0.016+/-0.011 χ²/NDF:54.3/50
All: 0.014+/-0.008 χ²/NDF: 100.1/93

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 59.944+/-0.015 $\chi^2$/NDF: 2564795.8/19

Left Out: 54.686+/-0.009 $\chi^2$/NDF:1936555.1/24

Right Out: 62.471+/-0.014 $\chi^2$/NDF: 3474129.1/25

Left In: 54.689+/-0.009 $\chi^2$/NDF:1190755.4/22

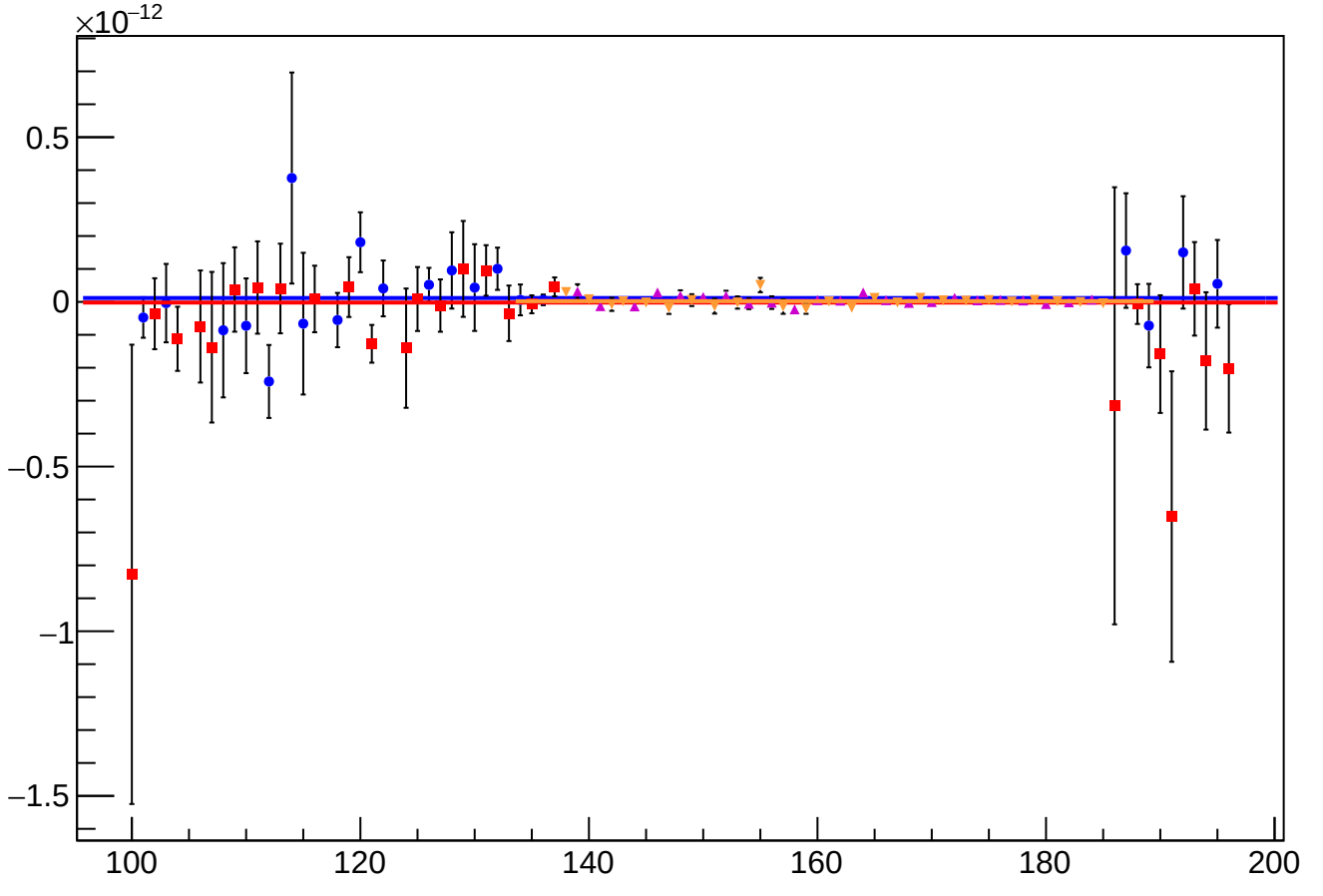
Left: 54.688+/-0.007 $\chi^2$/NDF: 3127310.5/47

Right: 61.275+/-0.010 $\chi^2$/NDF: 6053796.3/45

In: 56.159+/-0.008 $\chi^2$/NDF:3843433.0/42

Out: 56.954+/-0.008 $\chi^2$/NDF:5621881.9/50

All: 56.570+/-0.006 $\chi^2$/NDF: 9470478.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 17.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20.7/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:33.1/22

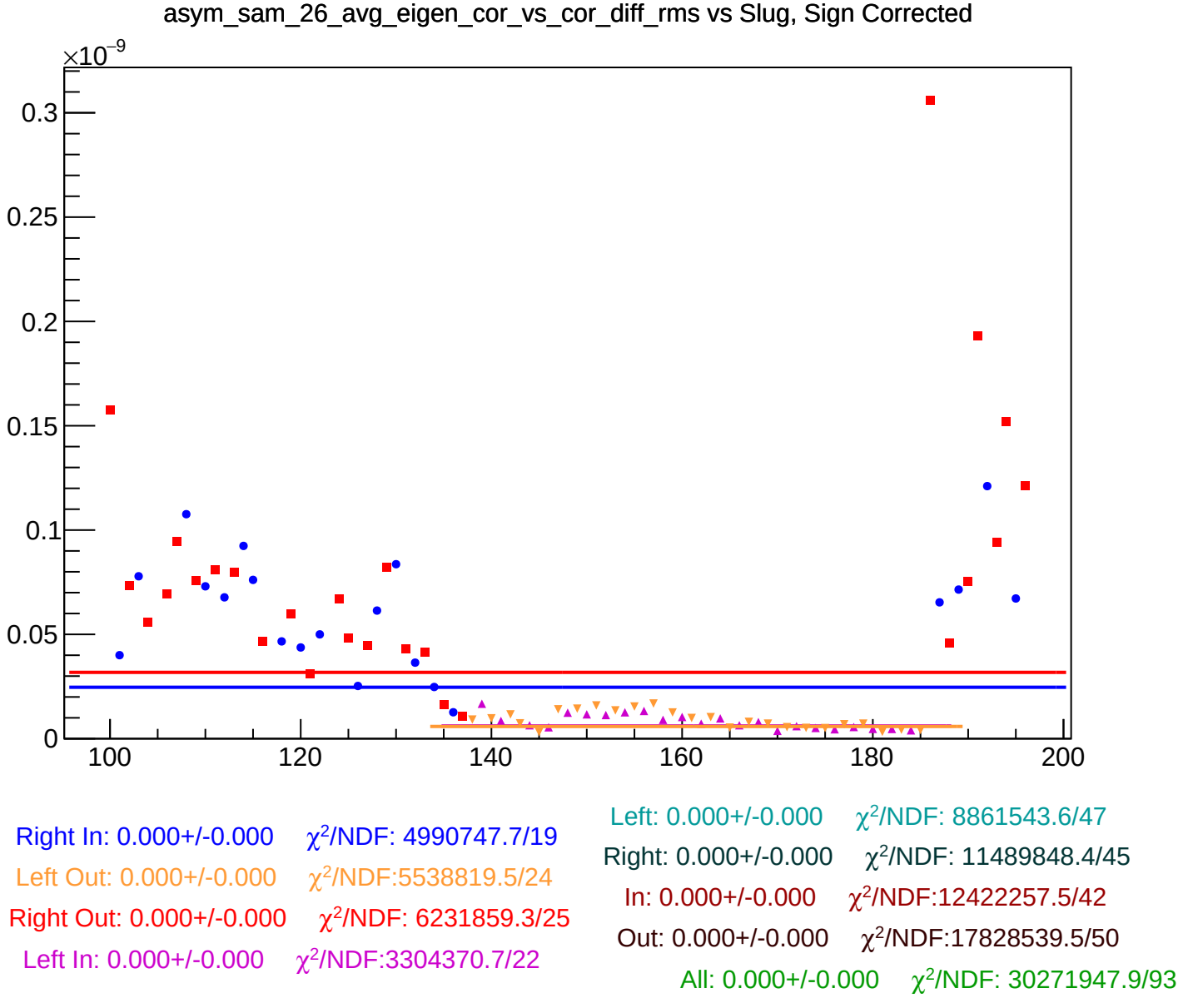
Left: 0.000+/-0.000 $\chi^2$/NDF: 53.9/47

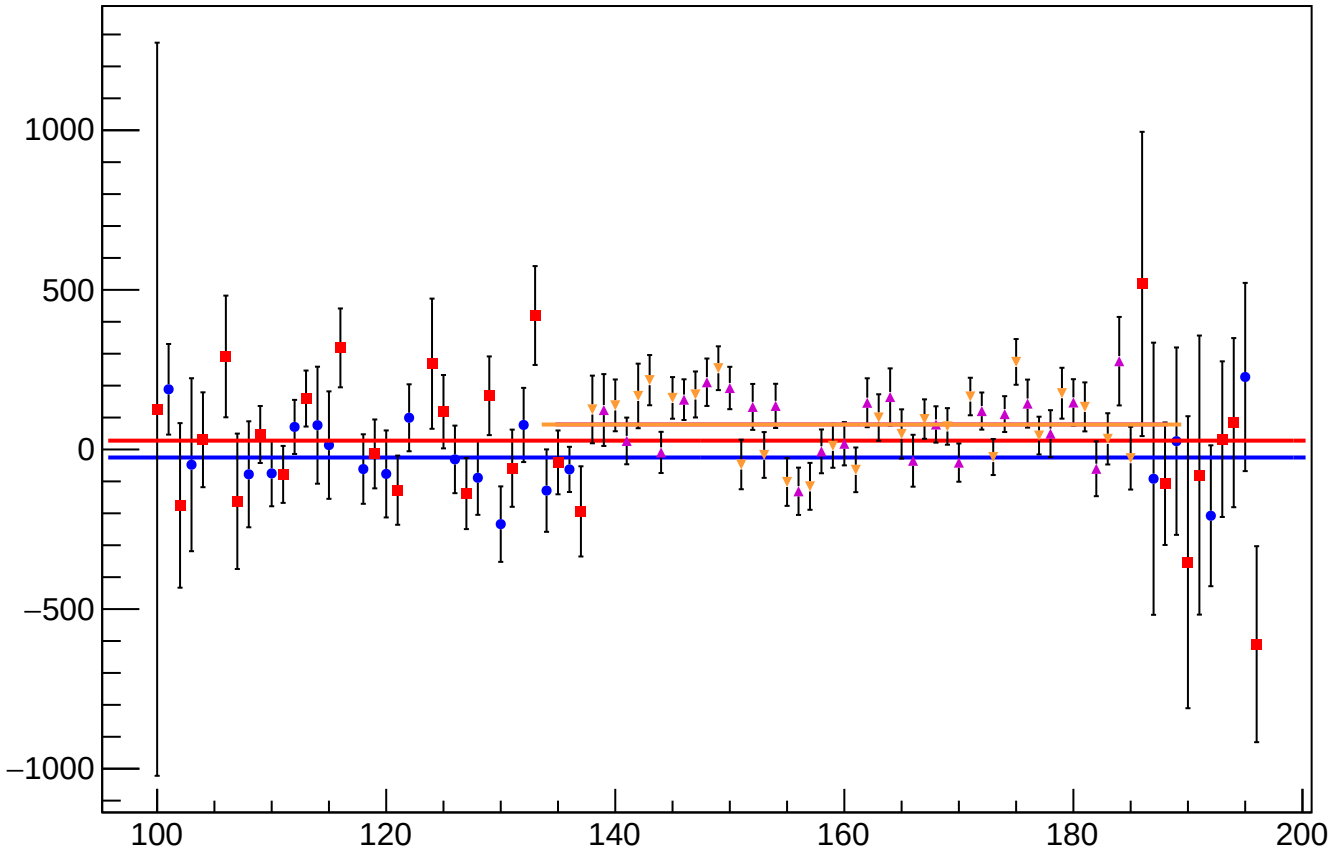
Right: 0.000+/-0.000 $\chi^2$/NDF: 37.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:51.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:40.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 91.4/93


asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.3
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4990747.7/19
Left Out: 0.000+/-0.000 χ²/NDF:5538819.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 6231859.3/25
Left In: 0.000+/-0.000 χ²/NDF:3304370.7/22
Left: 0.000+/-0.000 χ²/NDF: 8861543.6/47
Right: 0.000+/-0.000 χ²/NDF: 11489848.4/45
In: 0.000+/-0.000 χ²/NDF:12422257.5/42
Out: 0.000+/-0.000 χ²/NDF:17828539.5/50
All: 0.000+/-0.000 χ²/NDF: 30271947.9/93




Right In: -25.150+/-28.336 $\chi^2$/NDF: 12.5/19

Left Out: 78.159+/-14.326 $\chi^2$/NDF:53.9/24

Right Out: 27.668+/-27.541 $\chi^2$/NDF: 36.8/25

Left In: 78.506+/-14.811 $\chi^2$/NDF:36.7/22

Left: 78.327+/-10.297 $\chi^2$/NDF: 90.5/47

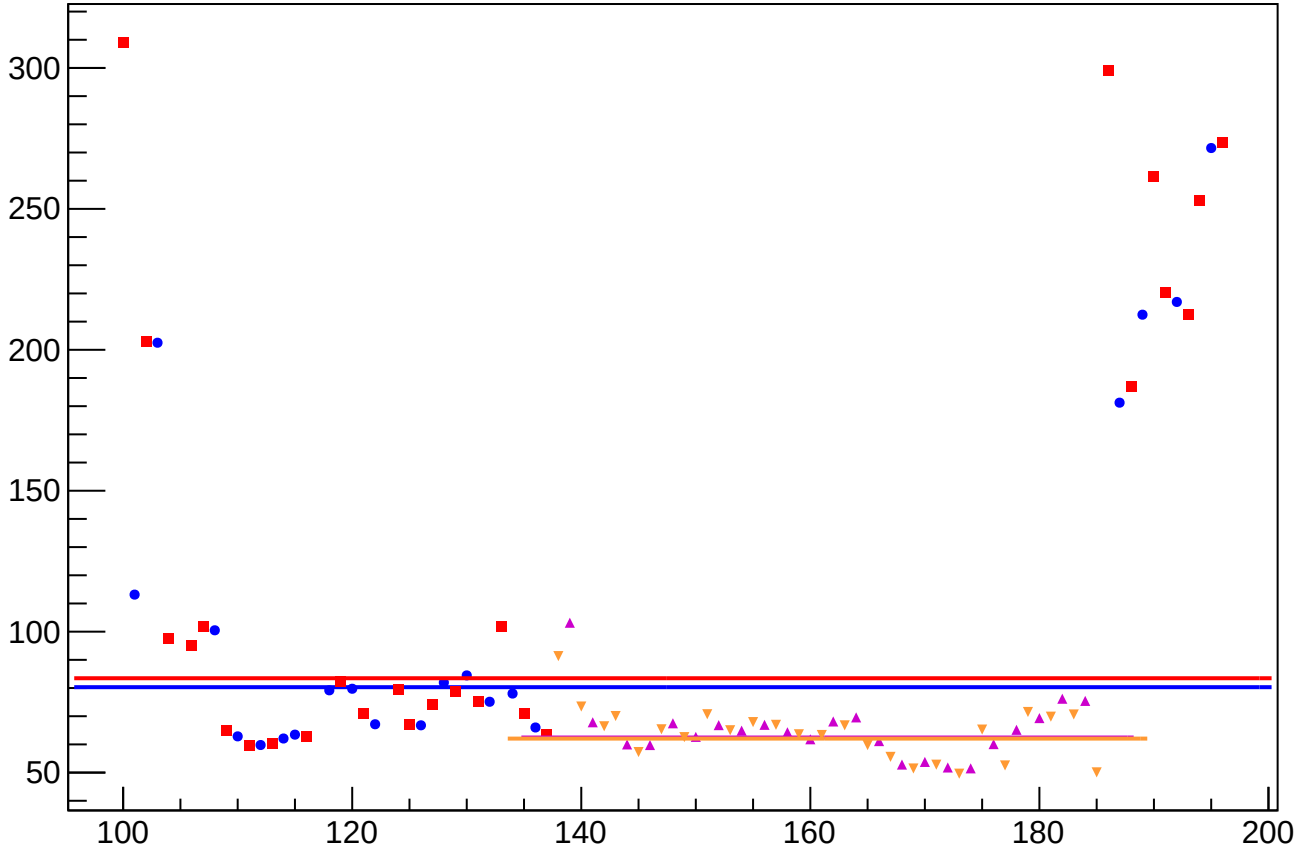
Right: 2.011+/-19.750 $\chi^2$/NDF: 51.1/45

In: 56.263+/-13.126 $\chi^2$/NDF:59.7/42

Out: 67.407+/-12.709 $\chi^2$/NDF:93.4/50

All: 62.015+/-9.131 $\chi^2$/NDF: 153.4/93

# reg_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 80.302+/-0.020 $\chi^2$/NDF: 3038889.2/19

Left Out: 62.063+/-0.010 $\chi^2$/NDF:686530.2/24

Right Out: 83.476+/-0.019 $\chi^2$/NDF: 4799899.9/25

Left In: 62.445+/-0.010 $\chi^2$/NDF:664644.9/22

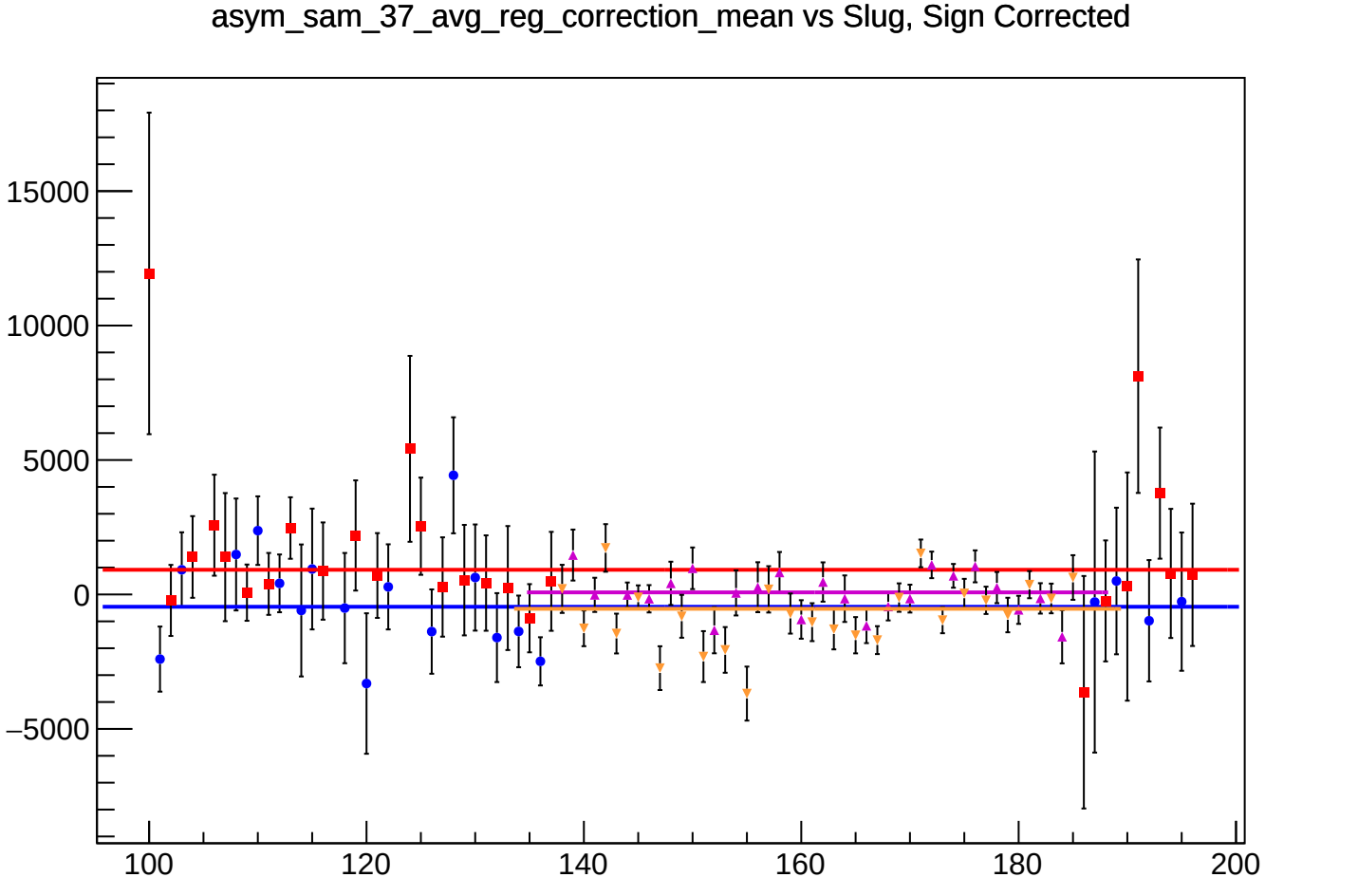
Left: 62.248+/-0.007 $\chi^2$/NDF: 1351864.4/47

Right: 81.935+/-0.014 $\chi^2$/NDF: 7851693.4/45

In: 66.277+/-0.009 $\chi^2$/NDF:4327371.8/42

Out: 66.623+/-0.009 $\chi^2$/NDF:6438042.8/50

All: 66.455+/-0.006 $\chi^2$/NDF: 10766129.8/93




Right In: -457.880+/-362.165 $\chi^2$/NDF: 23.9/19

Left Out: -532.779+/-127.927 $\chi^2$/NDF:69.1/24

Right Out: 917.529+/-352.210 $\chi^2$/NDF: 18.6/25

Left In: 77.393+/-130.317 $\chi^2$/NDF:28.4/22

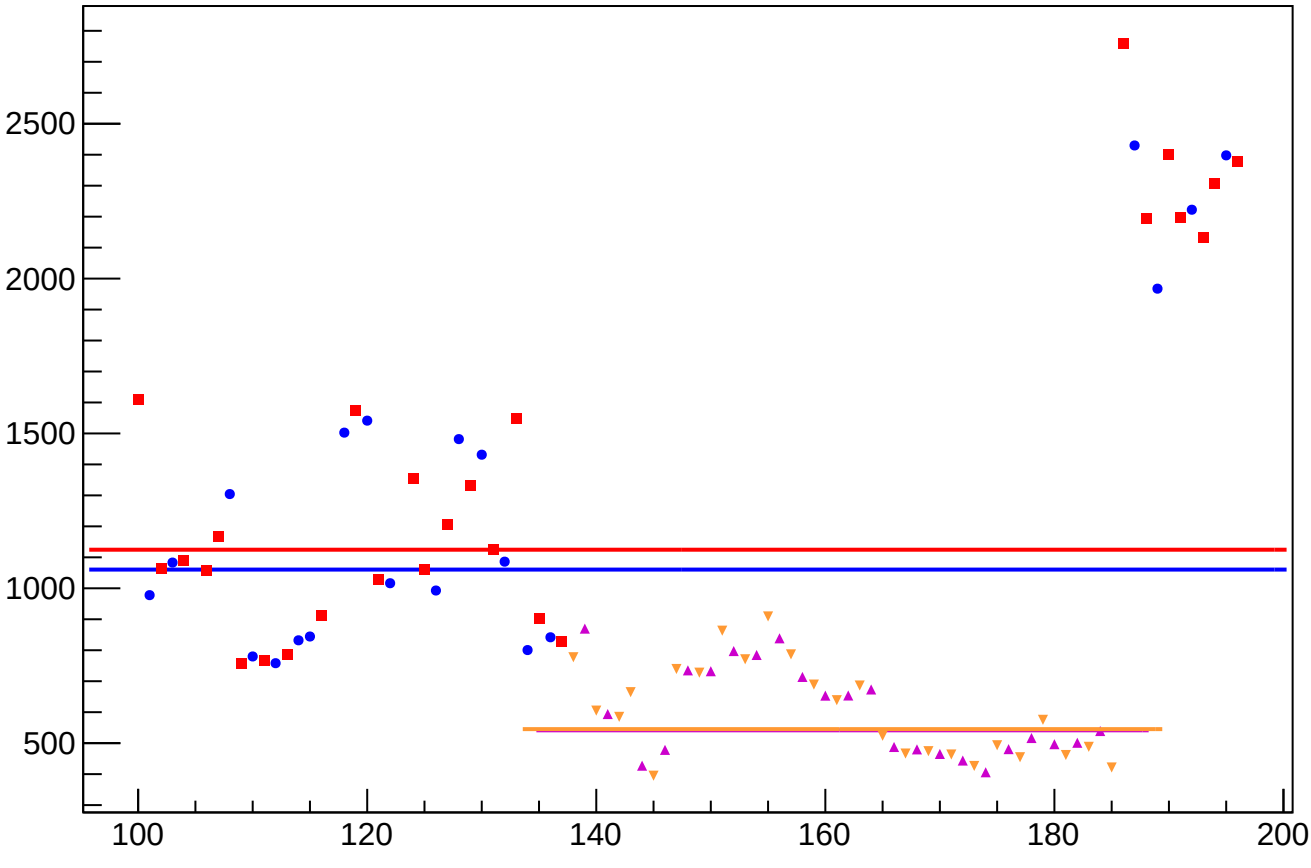
Left: -233.341+/-91.291 $\chi^2$/NDF: 108.6/47

Right: 248.987+/-252.496 $\chi^2$/NDF: 49.9/45

In: 16.032+/-122.621 $\chi^2$/NDF:54.2/42

Out: -363.750+/-120.241 $\chi^2$/NDF:102.7/50

All: -177.580+/-85.852 $\chi^2$/NDF: 161.7/93




Right In: 1060.441+/-0.256 $\chi^2$/NDF: 2249093.3/19

Left Out: 545.304+/-0.090 $\chi^2$/NDF:2083690.3/24

Right Out: 1124.598+/-0.249 $\chi^2$/NDF: 3299141.9/25

Left In: 541.458+/-0.092 $\chi^2$/NDF:1840342.7/22

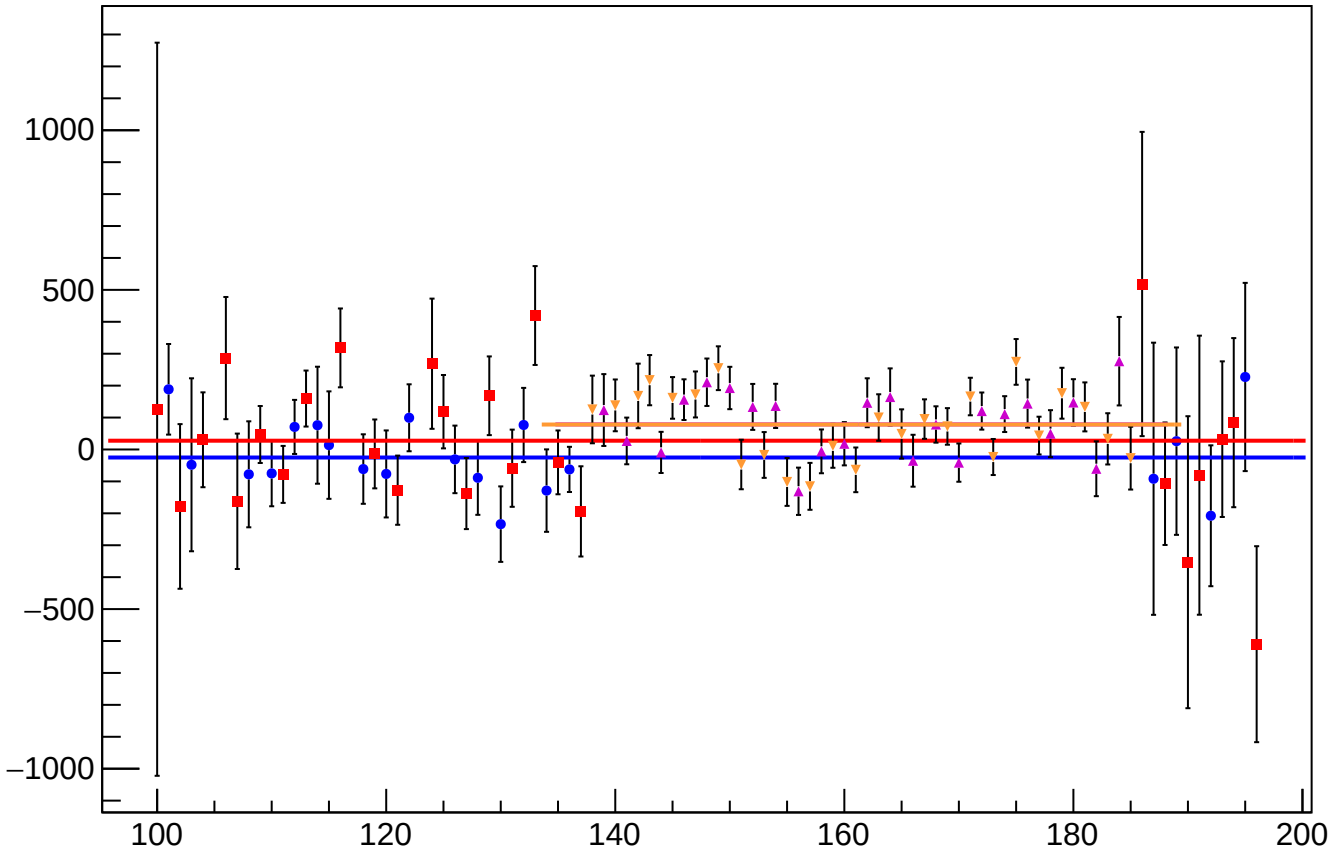
Left: 543.417+/-0.065 $\chi^2$/NDF: 3924920.4/47

Right: 1093.414+/-0.179 $\chi^2$/NDF: 5580491.4/45

In: 600.951+/-0.087 $\chi^2$/NDF:7725627.2/42

Out: 612.819+/-0.085 $\chi^2$/NDF:10162606.2/50

All: 607.001+/-0.061 $\chi^2$/NDF: 17897784.9/93




Right In: -25.157+/-28.336 $\chi^2$/NDF: 12.5/19

Left Out: 78.162+/-14.326 $\chi^2$/NDF:53.9/24

Right Out: 27.477+/-27.544 $\chi^2$/NDF: 36.8/25

Left In: 78.506+/-14.811 $\chi^2$/NDF:36.7/22

Left: 78.329+/-10.297 $\chi^2$/NDF: 90.5/47

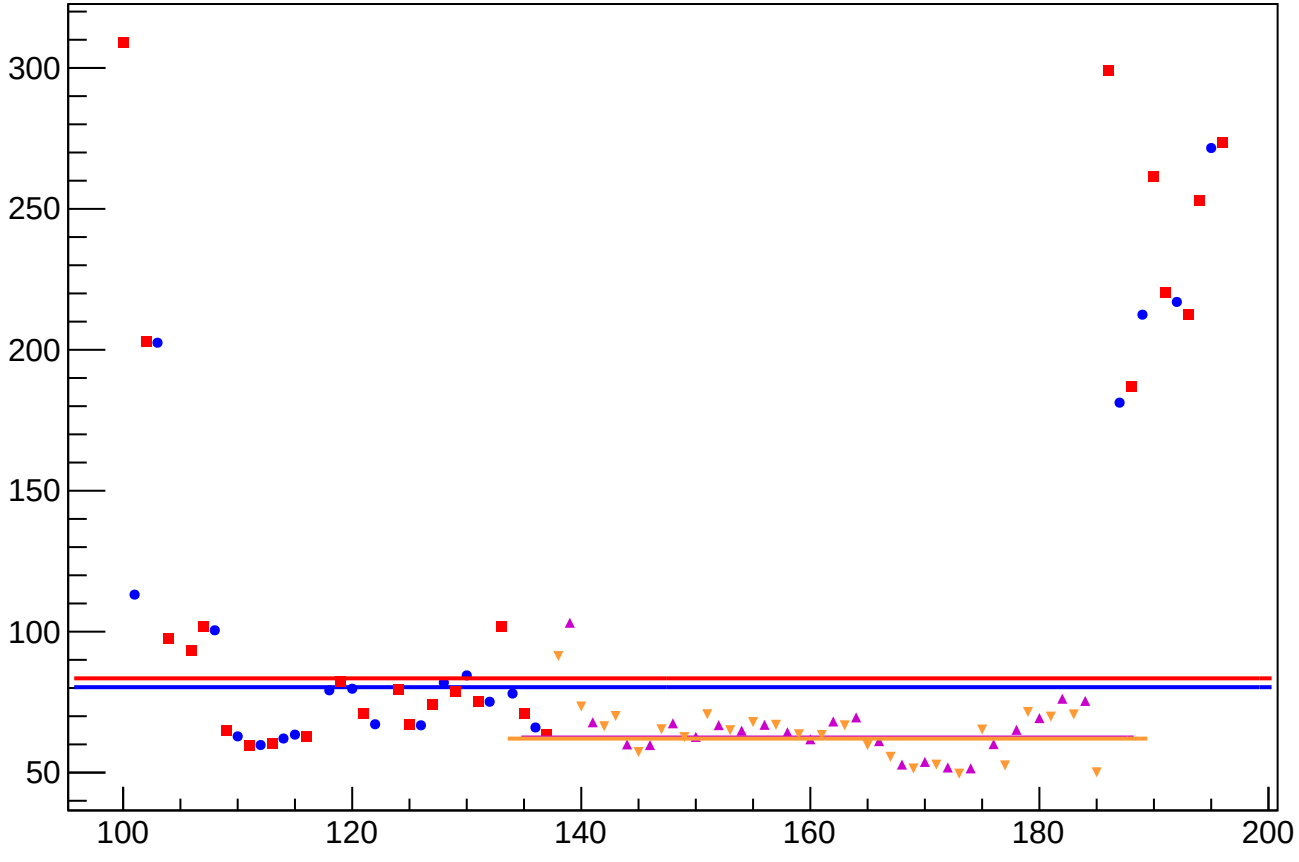
Right: 1.906+/-19.751 $\chi^2$/NDF: 51.0/45

In: 56.262+/-13.126 $\chi^2$/NDF:59.6/42

Out: 67.371+/-12.709 $\chi^2$/NDF:93.3/50

All: 61.995+/-9.131 $\chi^2$/NDF: 153.3/93

# cor_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 80.302+/-0.020 $\chi^2$/NDF: 3038891.4/19

Left Out: 62.063+/-0.010 $\chi^2$/NDF:686530.2/24

Right Out: 83.439+/-0.019 $\chi^2$/NDF: 4798066.7/25

Left In: 62.445+/-0.010 $\chi^2$/NDF:664644.9/22

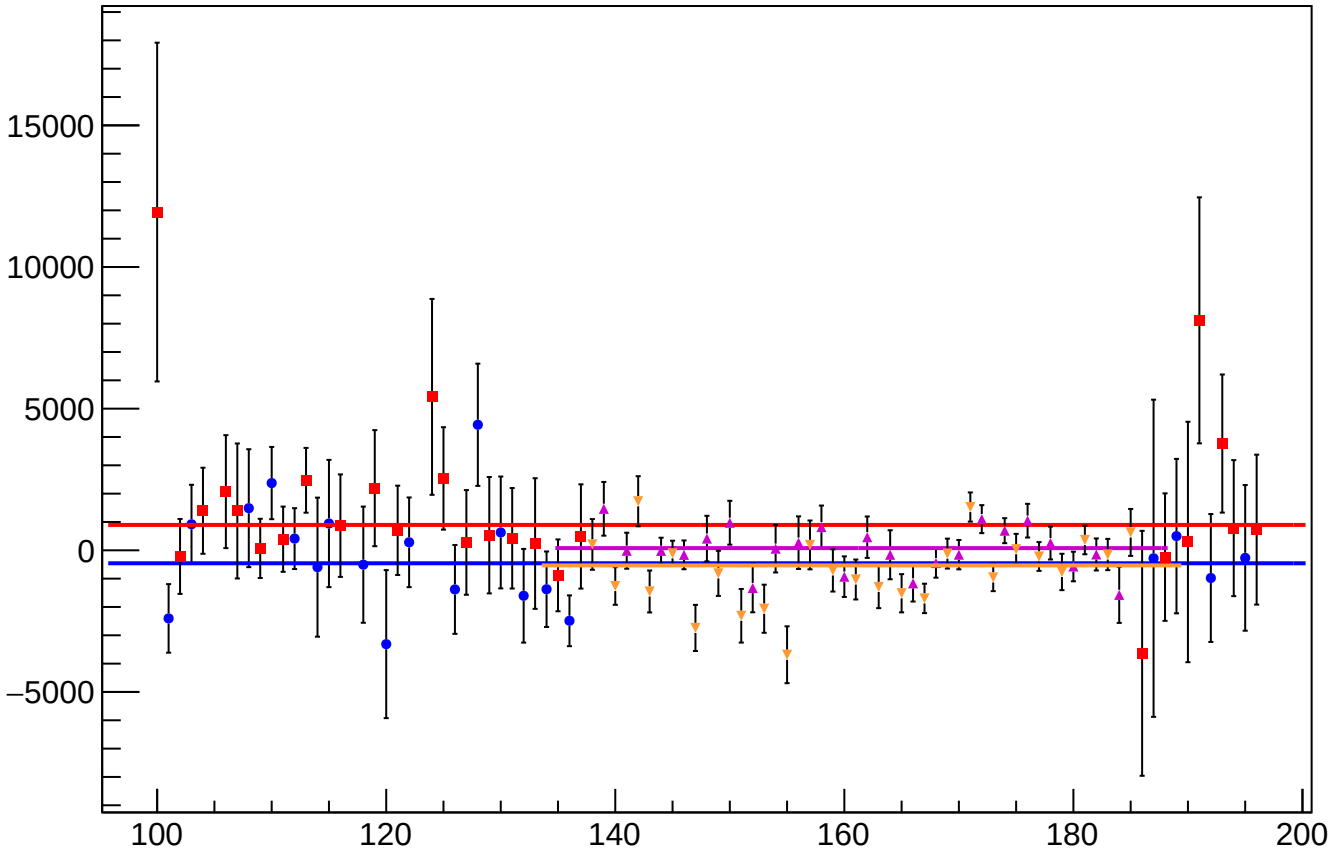
Left: 62.248+/-0.007 $\chi^2$/NDF: 1351864.3/47

Right: 81.915+/-0.014 $\chi^2$/NDF: 7849559.0/45

In: 66.277+/-0.009 $\chi^2$/NDF:4327373.7/42

Out: 66.614+/-0.009 $\chi^2$/NDF:6432748.0/50

All: 66.451+/-0.006 $\chi^2$/NDF: 10760801.6/93




Right In: -457.867+/-362.168 $\chi^2$/NDF: 23.9/19

Left Out: -532.776+/-127.927 $\chi^2$/NDF:69.1/24

Right Out: 895.693+/-352.933 $\chi^2$/NDF: 18.1/25

Left In: 77.392+/-130.317 $\chi^2$/NDF:28.4/22

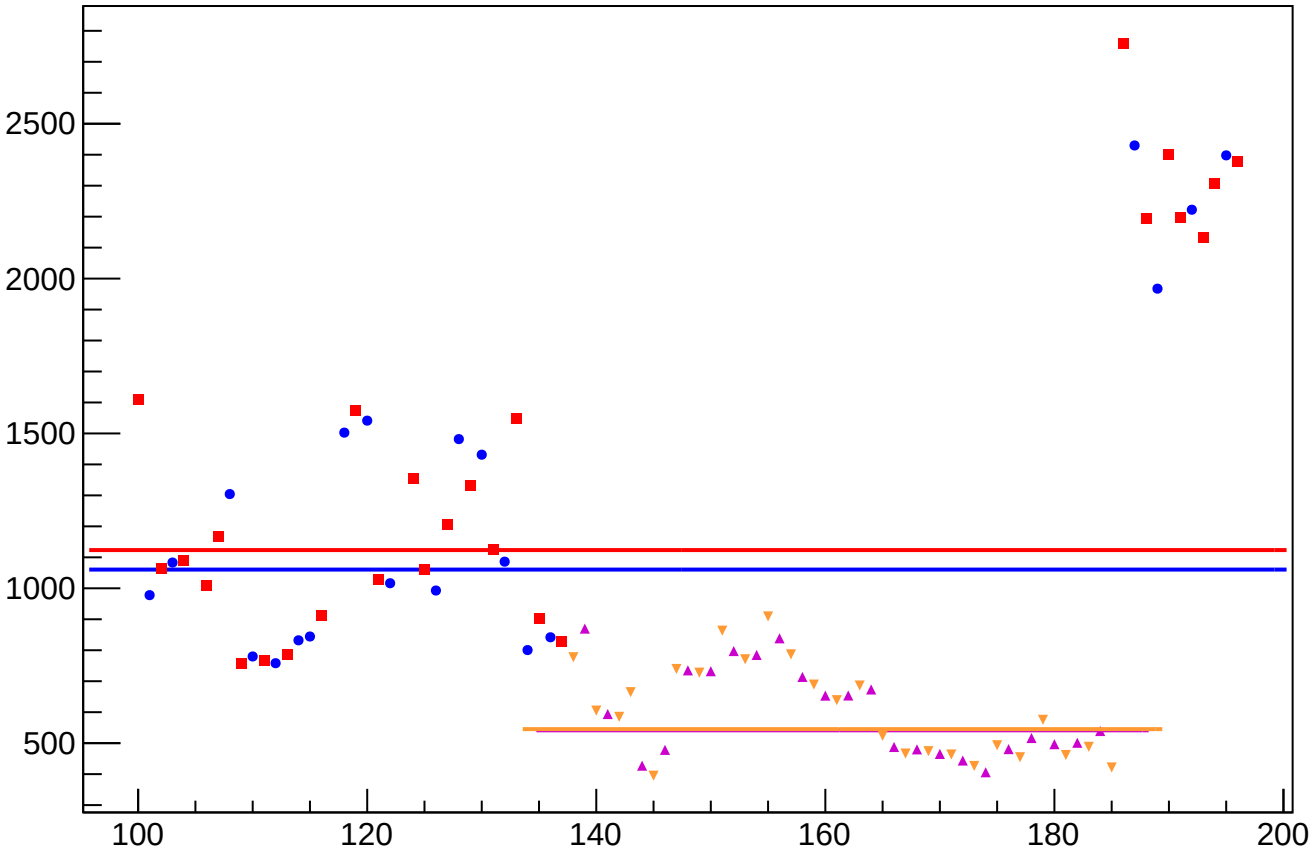
Left: -233.340+/-91.291 $\chi^2$/NDF: 108.6/47

Right: 236.389+/-252.763 $\chi^2$/NDF: 49.2/45

In: 16.034+/-122.621 $\chi^2$/NDF:54.2/42

Out: -366.895+/-120.270 $\chi^2$/NDF:101.7/50

All: -179.137+/-85.863 $\chi^2$/NDF: 160.9/93




Right In: 1060.448+/-0.256 $\chi^2$/NDF: 2249101.4/19

Left Out: 545.304+/-0.090 $\chi^2$/NDF:2083686.2/24

Right Out: 1123.421+/-0.250 $\chi^2$/NDF: 3303140.0/25

Left In: 541.458+/-0.092 $\chi^2$/NDF:1840342.7/22

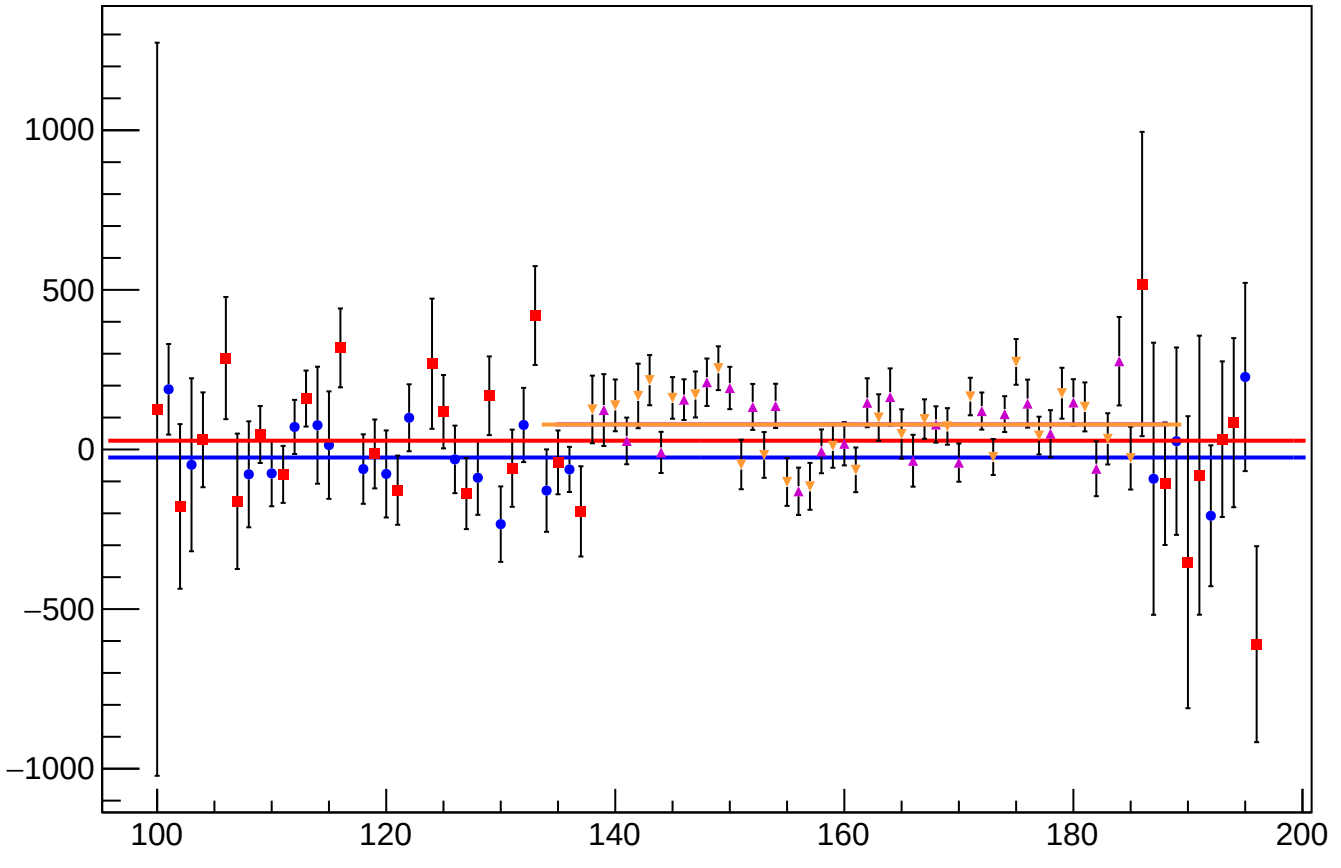
Left: 543.417+/-0.065 $\chi^2$/NDF: 3924916.2/47

Right: 1092.747+/-0.179 $\chi^2$/NDF: 5583255.5/45

In: 600.951+/-0.087 $\chi^2$/NDF:7725684.4/42

Out: 612.438+/-0.085 $\chi^2$/NDF:10129971.4/50

All: 606.806+/-0.061 $\chi^2$/NDF: 17864601.6/93




Right In: -25.157+/-28.336 $\chi^2$/NDF: 12.5/19

Left Out: 78.162+/-14.326 $\chi^2$/NDF:53.9/24

Right Out: 27.477+/-27.544 $\chi^2$/NDF: 36.8/25

Left In: 78.506+/-14.811 $\chi^2$/NDF:36.7/22

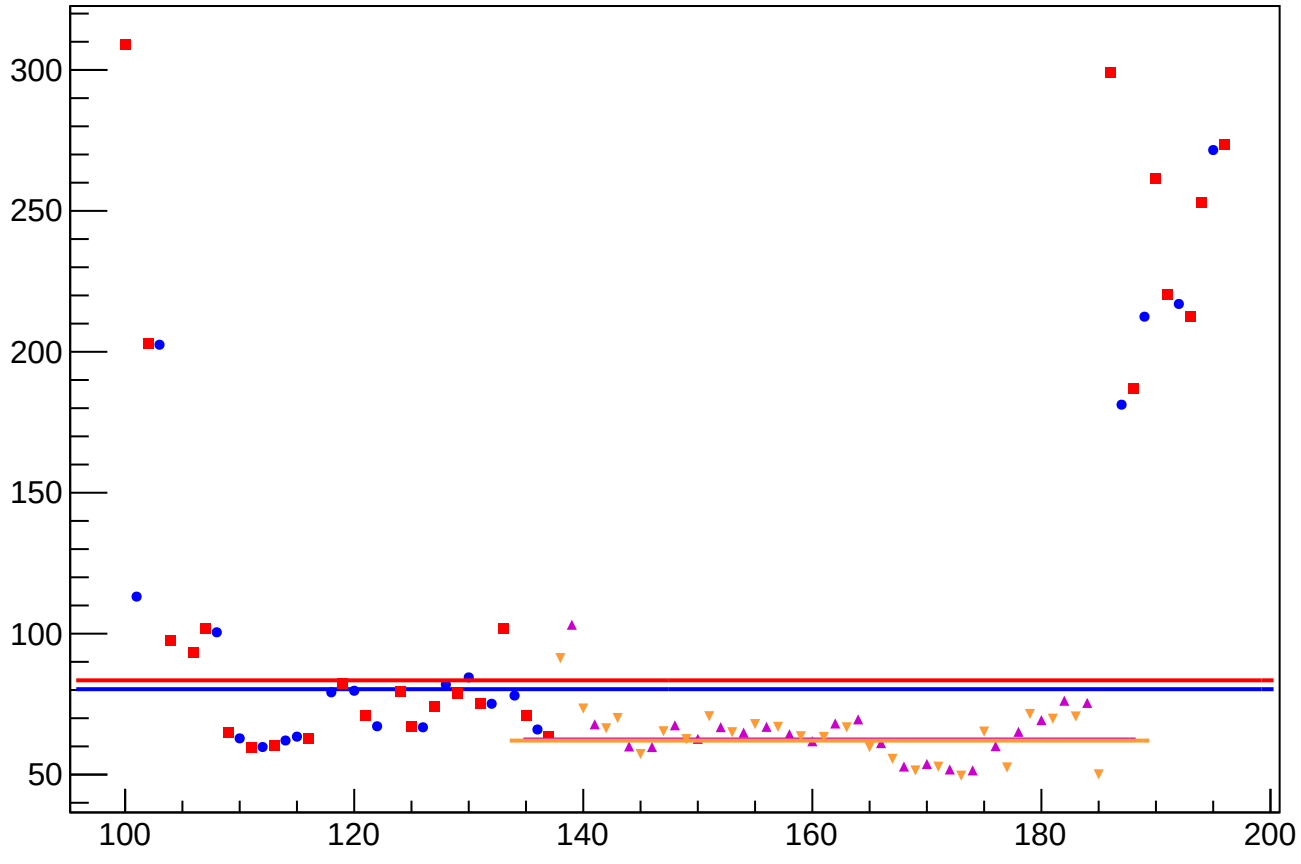
Left: 78.329+/-10.297 $\chi^2$/NDF: 90.5/47

Right: 1.906+/-19.751 $\chi^2$/NDF: 51.0/45

In: 56.262+/-13.126 $\chi^2$/NDF:59.6/42

Out: 67.371+/-12.709 $\chi^2$/NDF:93.3/50

All: 61.995+/-9.131 $\chi^2$/NDF: 153.3/93




Right In: 80.302+/-0.020 $\chi^2$/NDF: 3038891.4/19

Left Out: 62.063+/-0.010 $\chi^2$/NDF:686530.2/24

Right Out: 83.439+/-0.019 $\chi^2$/NDF: 4798066.7/25

Left In: 62.445+/-0.010 $\chi^2$/NDF:664644.9/22

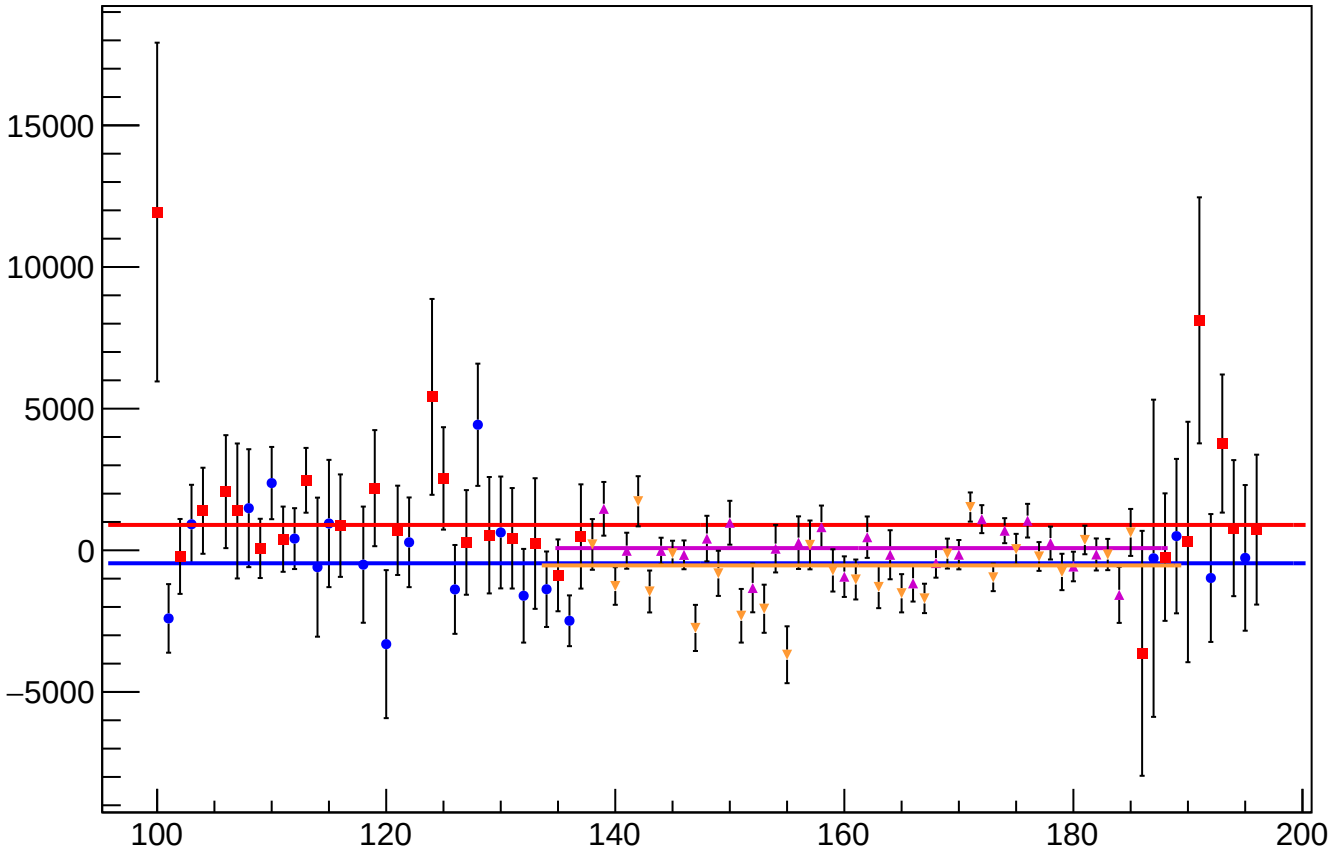
Left: 62.248+/-0.007 $\chi^2$/NDF: 1351864.3/47

Right: 81.915+/-0.014 $\chi^2$/NDF: 7849559.0/45

In: 66.277+/-0.009 $\chi^2$/NDF:4327373.7/42

Out: 66.614+/-0.009 $\chi^2$/NDF:6432748.0/50

All: 66.451+/-0.006 $\chi^2$/NDF: 10760801.6/93




Right In: -457.867+/-362.168 $\chi^2$/NDF: 23.9/19

Left Out: -532.776+/-127.927 $\chi^2$/NDF:69.1/24

Right Out: 895.693+/-352.933 $\chi^2$/NDF: 18.1/25

Left In: 77.392+/-130.317 $\chi^2$/NDF:28.4/22

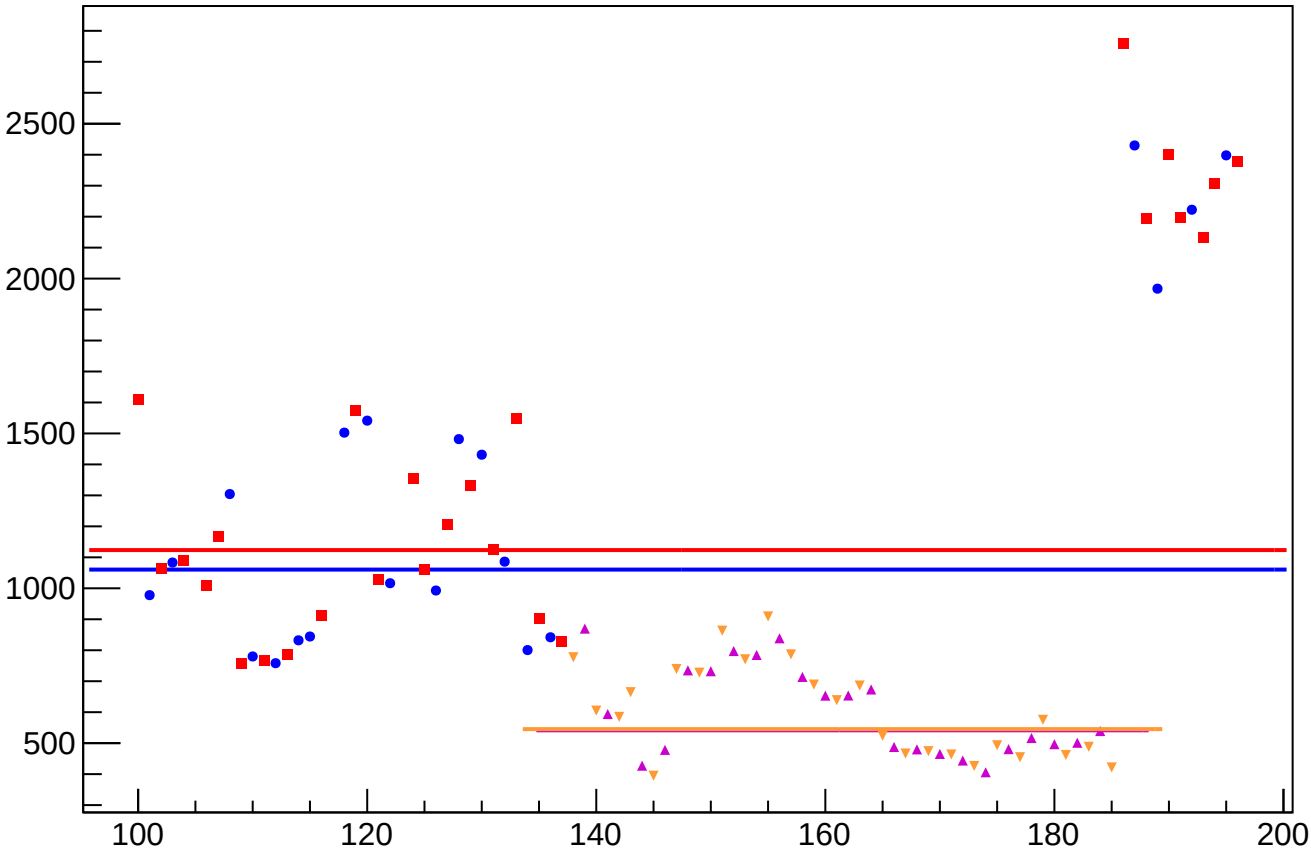
Left: -233.340+/-91.291 $\chi^2$/NDF: 108.6/47

Right: 236.389+/-252.763 $\chi^2$/NDF: 49.2/45

In: 16.034+/-122.621 $\chi^2$/NDF:54.2/42

Out: -366.895+/-120.270 $\chi^2$/NDF:101.7/50

All: -179.137+/-85.863 $\chi^2$/NDF: 160.9/93




Right In: 1060.448+/-0.256 $\chi^2$/NDF: 2249101.4/19

Left Out: 545.304+/-0.090 $\chi^2$/NDF:2083686.2/24

Right Out: 1123.421+/-0.250 $\chi^2$/NDF: 3303140.0/25

Left In: 541.458+/-0.092 $\chi^2$/NDF:1840342.7/22

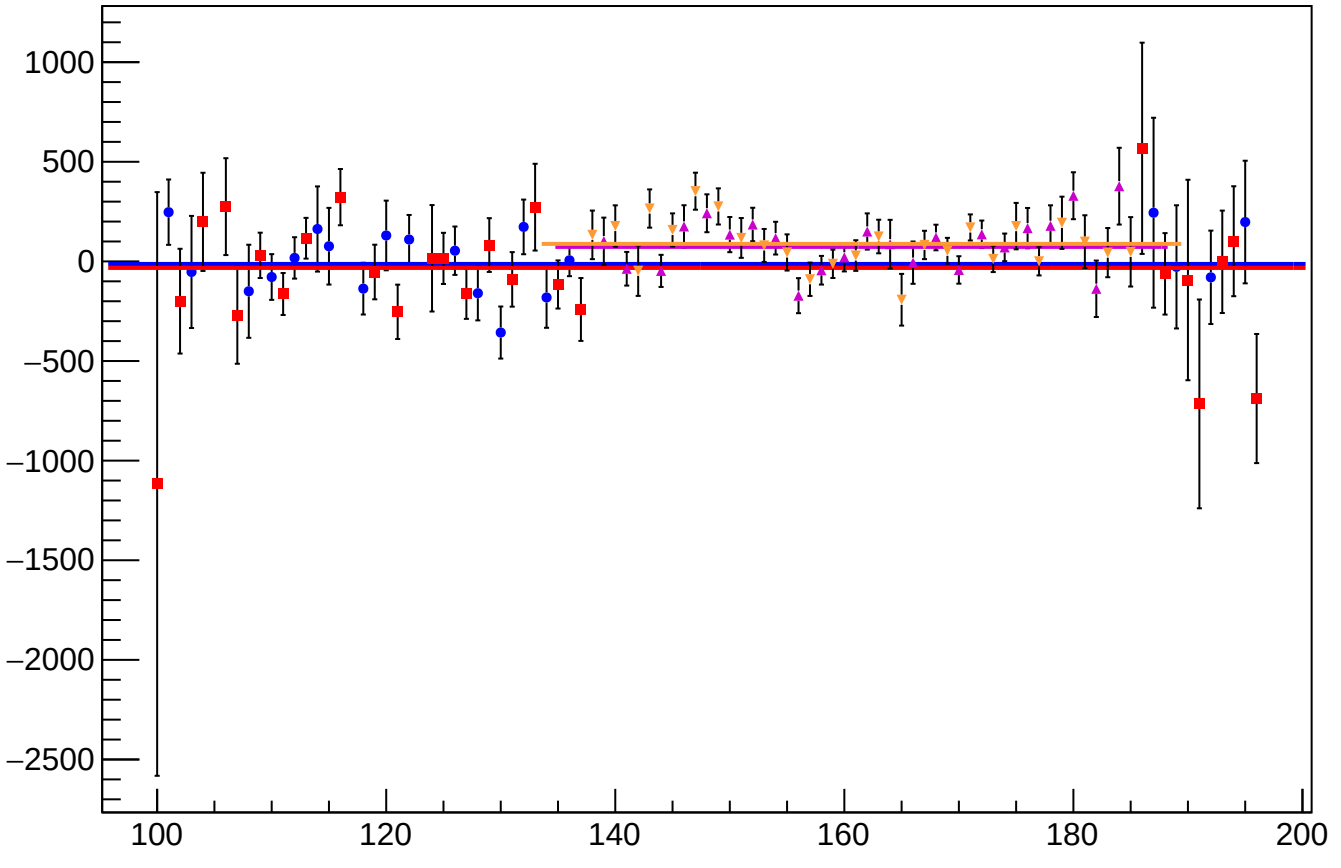
Left: 543.417+/-0.065 $\chi^2$/NDF: 3924916.2/47

Right: 1092.747+/-0.179 $\chi^2$/NDF: 5583255.5/45

In: 600.951+/-0.087 $\chi^2$/NDF:7725684.4/42

Out: 612.438+/-0.085 $\chi^2$/NDF:10129971.4/50

All: 606.806+/-0.061 $\chi^2$/NDF: 17864601.6/93




Right In: -12.703+/-32.951 $\chi^2$/NDF: 19.1/19

Left Out: 88.040+/-17.745 $\chi^2$/NDF:36.9/24

Right Out: -32.822+/-32.717 $\chi^2$/NDF: 31.0/25

Left In: 72.849+/-18.276 $\chi^2$/NDF:38.4/22

Left: 80.668+/-12.731 $\chi^2$/NDF: 75.7/47

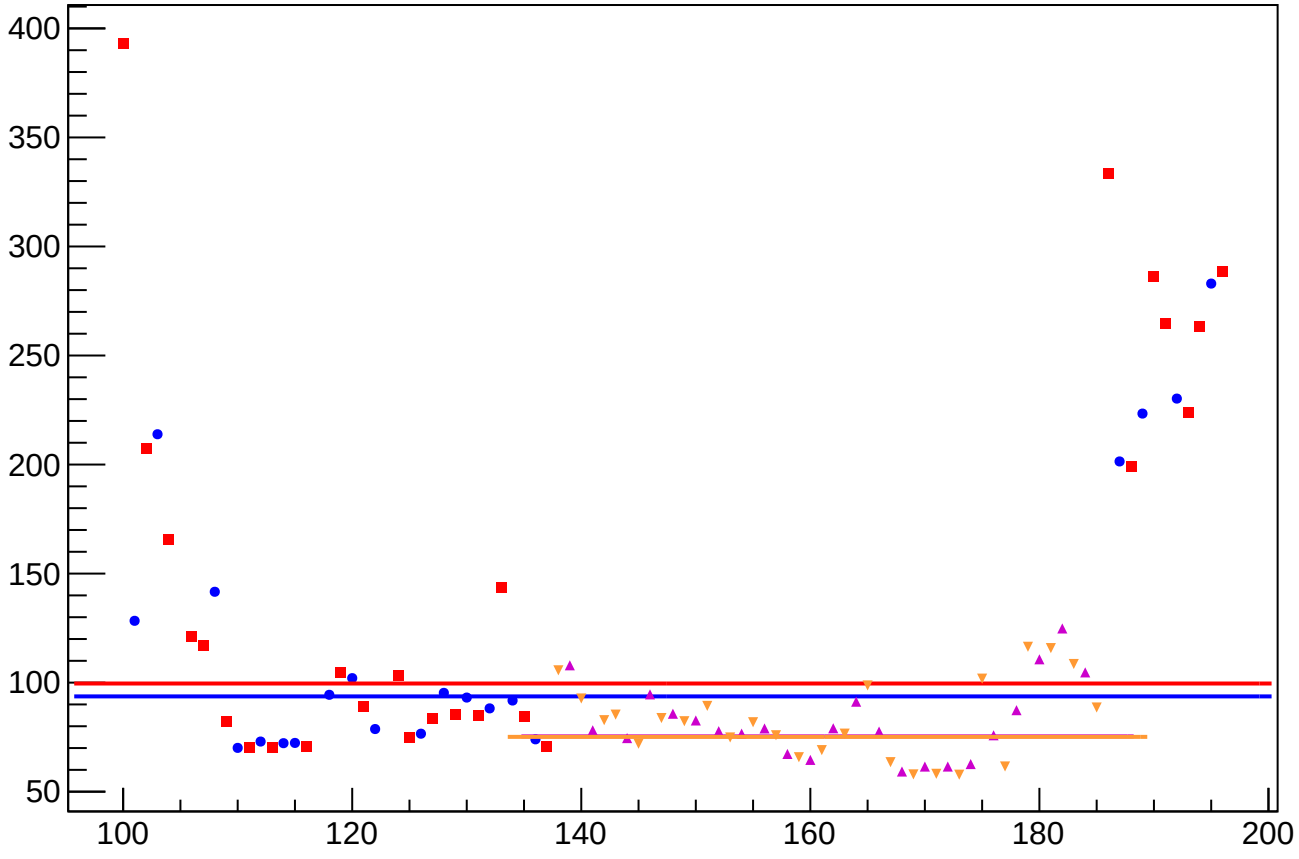
Right: -22.834+/-23.217 $\chi^2$/NDF: 50.3/45

In: 52.723+/-15.982 $\chi^2$/NDF:62.7/42

Out: 60.568+/-15.598 $\chi^2$/NDF:78.5/50

All: 56.741+/-11.163 $\chi^2$/NDF: 141.3/93

# dit_asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 93.688+/-0.023 $\chi^2$/NDF: 2836964.6/19

Left Out: 75.128+/-0.013 $\chi^2$/NDF:1601461.8/24

Right Out: 99.597+/-0.023 $\chi^2$/NDF: 4562440.0/25

Left In: 75.363+/-0.013 $\chi^2$/NDF:1225318.4/22

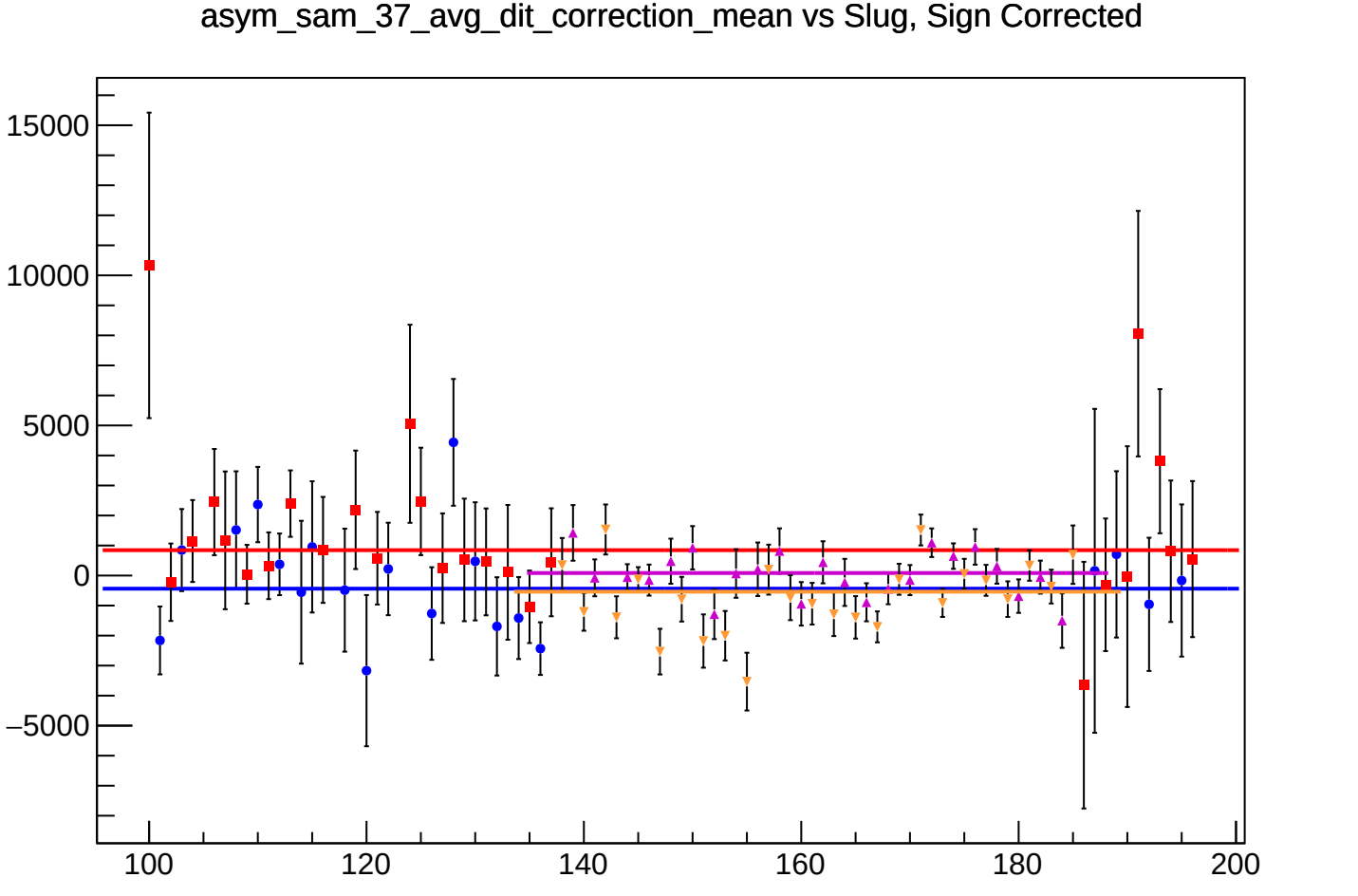
Left: 75.242+/-0.009 $\chi^2$/NDF: 2826950.4/47

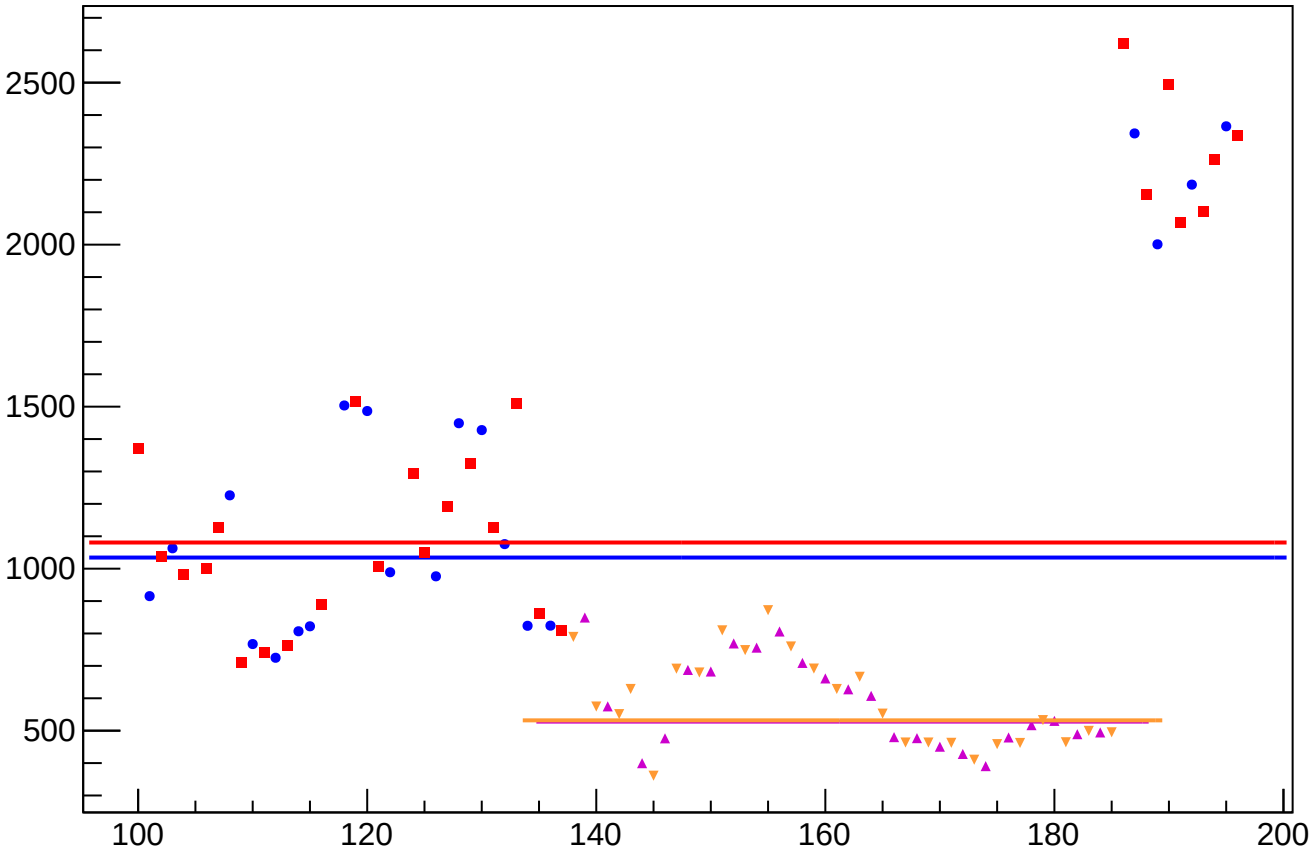
Right: 96.663+/-0.016 $\chi^2$/NDF: 7431795.7/45

In: 79.674+/-0.011 $\chi^2$/NDF:4535288.5/42

Out: 80.690+/-0.011 $\chi^2$/NDF:7028319.1/50

All: 80.194+/-0.008 $\chi^2$/NDF: 11567746.3/93


asym_sam_37_avg_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -437.232+/-353.451 χ²/NDF: 24.0/19
Left Out: -536.789+/-124.471 χ²/NDF:67.0/24
Right Out: 845.440+/-339.283 χ²/NDF: 19.8/25
Left In: 84.668+/-127.039 χ²/NDF:27.5/22
Left: -232.405+/-88.909 χ²/NDF: 106.7/47
Right: 230.327+/-244.765 χ²/NDF: 50.6/45
In: 24.959+/-119.552 χ²/NDF:53.4/42
Out: -372.823+/-116.856 χ²/NDF:101.5/50
All: -178.467+/-83.566 χ²/NDF: 160.5/93




Right In: 1034.322+/-0.250 $\chi^2$/NDF: 2296884.1/19

Left Out: 531.872+/-0.088 $\chi^2$/NDF:2037750.0/24

Right Out: 1080.729+/-0.240 $\chi^2$/NDF: 3434619.3/25

Left In: 527.986+/-0.090 $\chi^2$/NDF:1800455.5/22

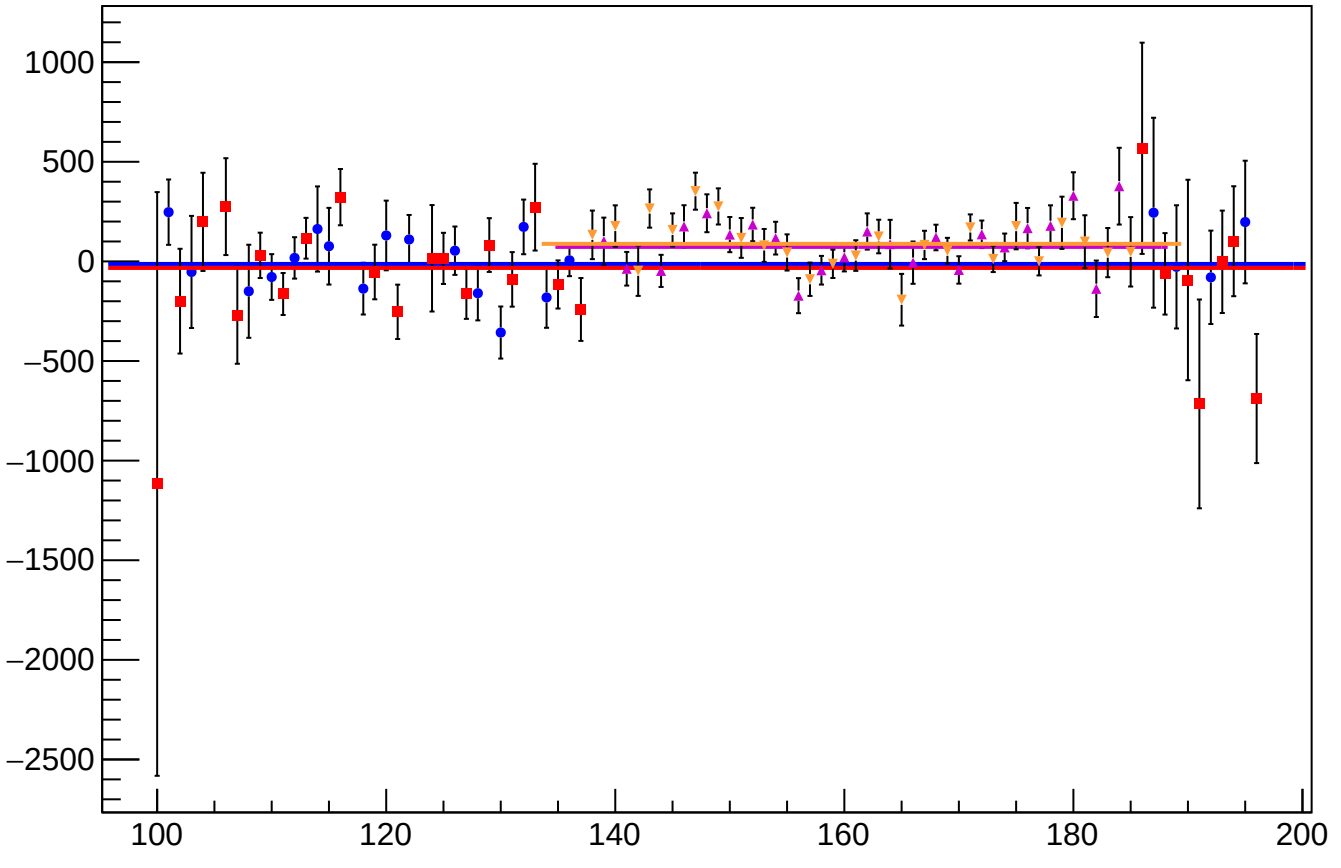
Left: 529.969+/-0.063 $\chi^2$/NDF: 3839160.5/47

Right: 1058.474+/-0.173 $\chi^2$/NDF: 5749446.8/45

In: 585.914+/-0.085 $\chi^2$/NDF:7732164.7/42

Out: 596.980+/-0.083 $\chi^2$/NDF:10085381.4/50

All: 591.573+/-0.059 $\chi^2$/NDF: 17826309.8/93




Right In: -12.703+/-32.952 $\chi^2$/NDF: 19.1/19

Left Out: 88.040+/-17.745 $\chi^2$/NDF:36.9/24

Right Out: -32.824+/-32.717 $\chi^2$/NDF: 31.0/25

Left In: 72.848+/-18.276 $\chi^2$/NDF:38.4/22

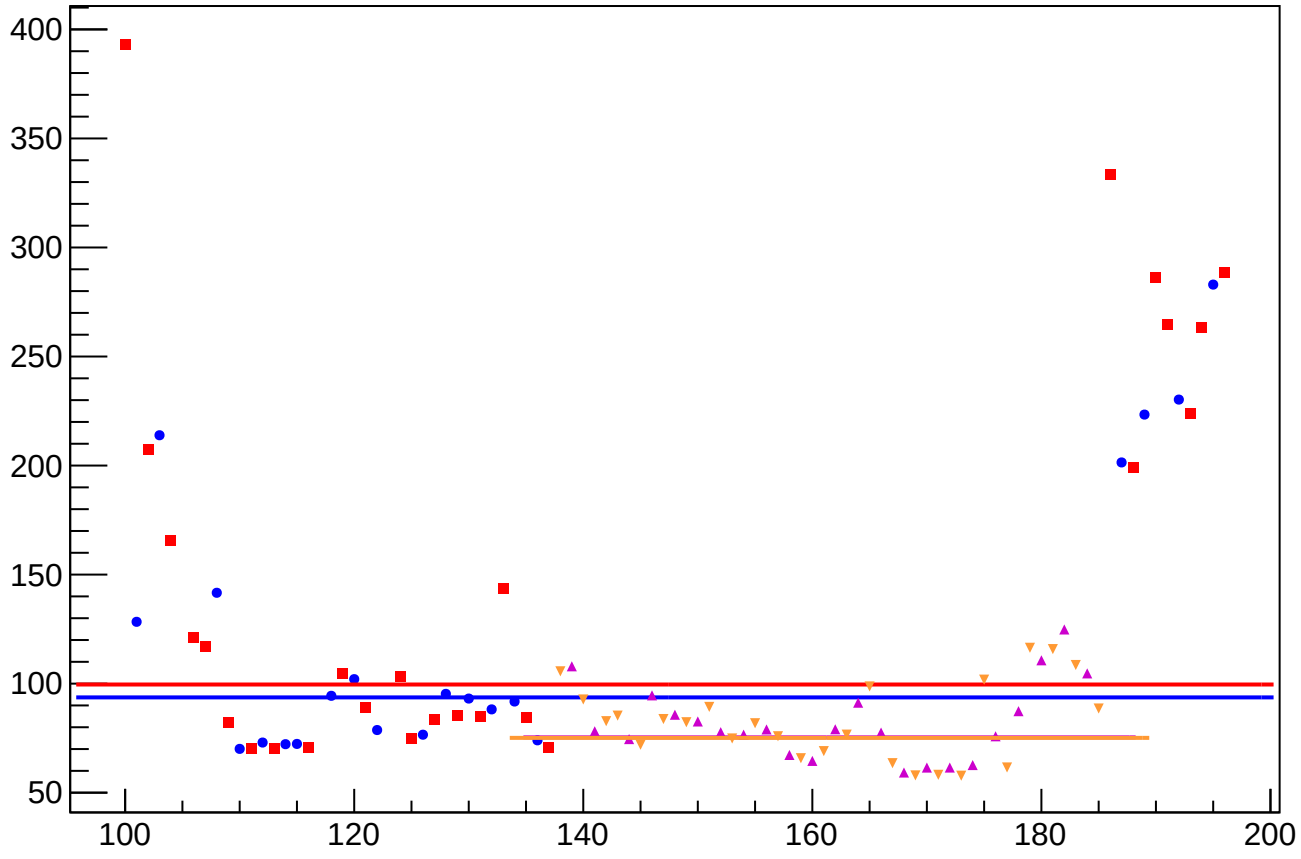
Left: 80.668+/-12.731 $\chi^2$/NDF: 75.7/47

Right: -22.836+/-23.217 $\chi^2$/NDF: 50.3/45

In: 52.723+/-15.982 $\chi^2$/NDF:62.7/42

Out: 60.568+/-15.598 $\chi^2$/NDF:78.4/50

All: 56.741+/-11.163 $\chi^2$/NDF: 141.3/93




Right In: 93.688+/-0.023 $\chi^2$/NDF: 2836949.9/19

Left Out: 75.128+/-0.013 $\chi^2$/NDF:1601462.6/24

Right Out: 99.597+/-0.023 $\chi^2$/NDF: 4562422.9/25

Left In: 75.363+/-0.013 $\chi^2$/NDF:1225319.2/22

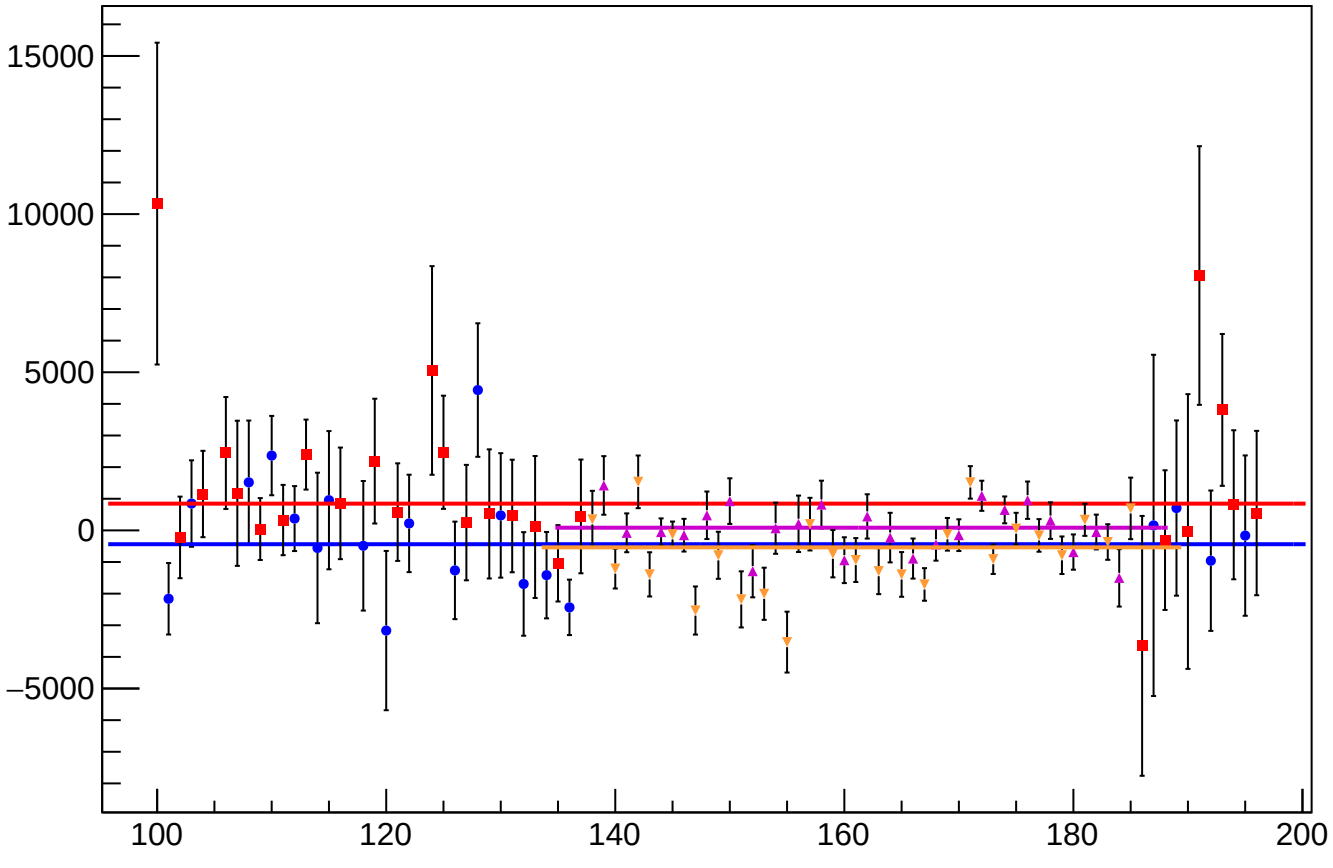
Left: 75.242+/-0.009 $\chi^2$/NDF: 2826952.0/47

Right: 96.664+/-0.016 $\chi^2$/NDF: 7431765.0/45

In: 79.674+/-0.011 $\chi^2$/NDF:4535280.7/42

Out: 80.690+/-0.011 $\chi^2$/NDF:7028314.7/50

All: 80.194+/-0.008 $\chi^2$/NDF: 11567734.5/93




Right In: -437.230+/-353.451 $\chi^2$/NDF: 24.0/19

Left Out: -536.790+/-124.471 $\chi^2$/NDF:67.0/24

Right Out: 845.439+/-339.282 $\chi^2$/NDF: 19.8/25

Left In: 84.668+/-127.039 $\chi^2$/NDF:27.5/22

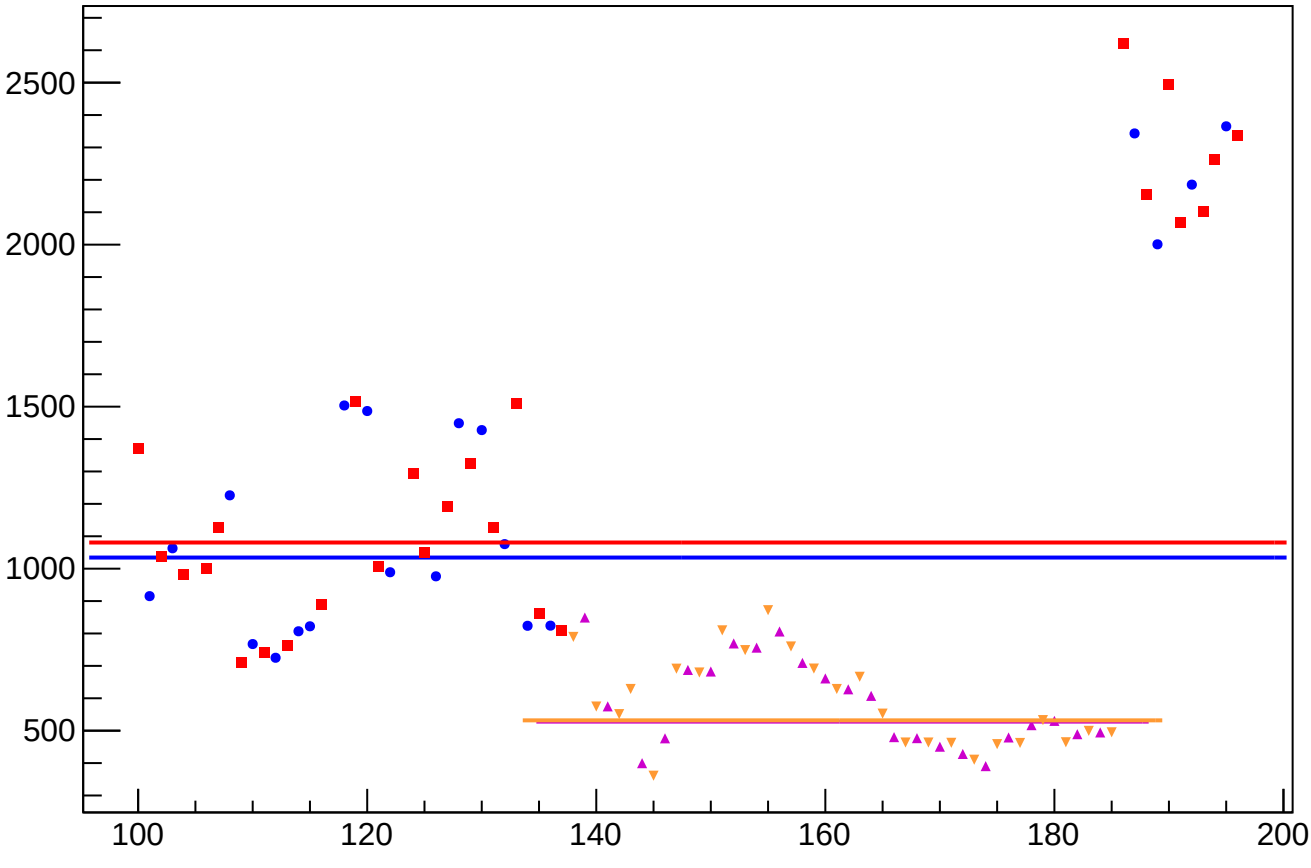
Left: -232.405+/-88.909 $\chi^2$/NDF: 106.7/47

Right: 230.328+/-244.765 $\chi^2$/NDF: 50.6/45

In: 24.959+/-119.552 $\chi^2$/NDF:53.4/42

Out: -372.823+/-116.856 $\chi^2$/NDF:101.5/50

All: -178.467+/-83.566 $\chi^2$/NDF: 160.5/93




Right In: 1034.320+/-0.250 $\chi^2$/NDF: 2296889.0/19

Left Out: 531.872+/-0.088 $\chi^2$/NDF:2037744.9/24

Right Out: 1080.727+/-0.240 $\chi^2$/NDF: 3434623.1/25

Left In: 527.986+/-0.090 $\chi^2$/NDF:1800449.7/22

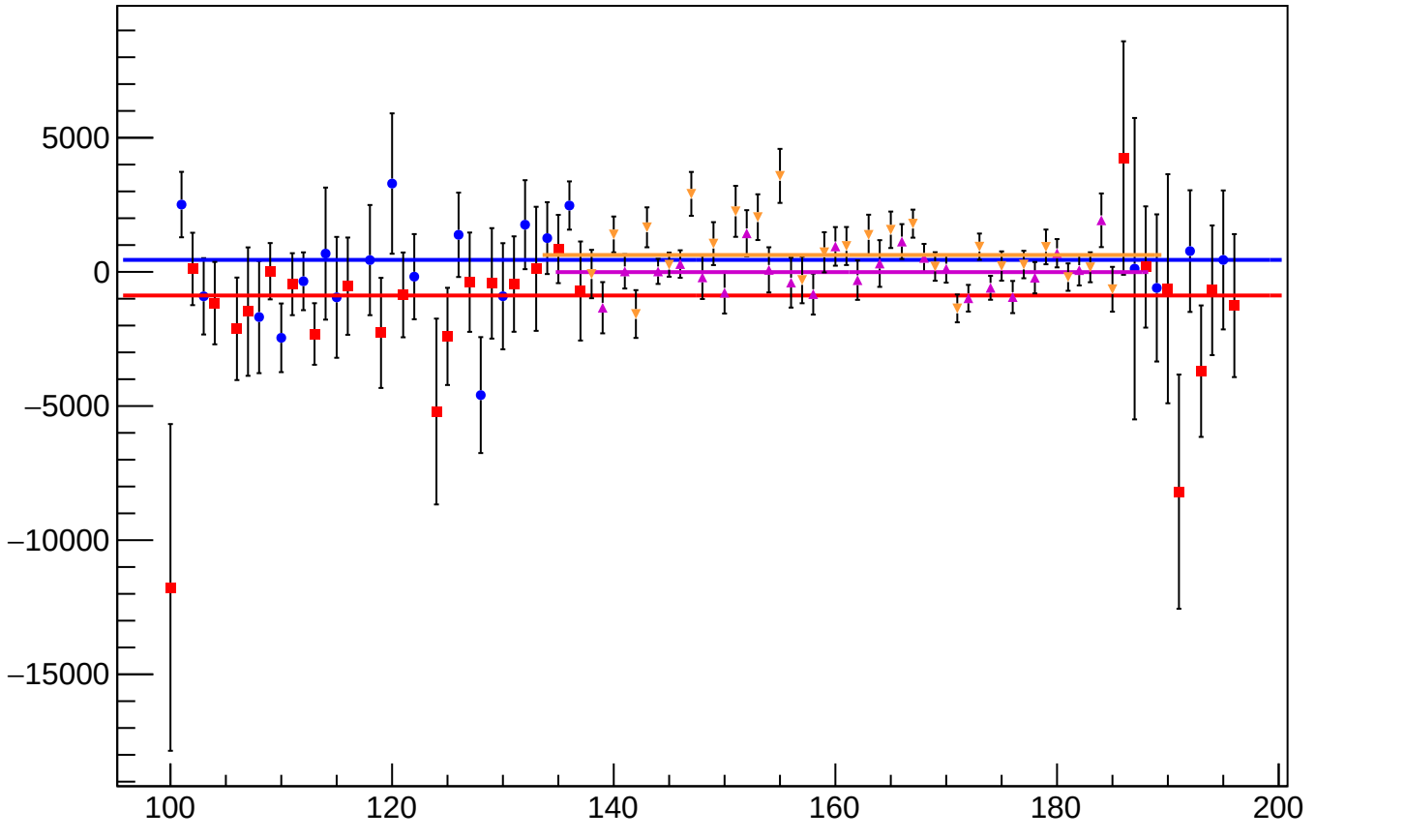
Left: 529.968+/-0.063 $\chi^2$/NDF: 3839149.6/47

Right: 1058.472+/-0.173 $\chi^2$/NDF: 5749455.5/45

In: 585.914+/-0.085 $\chi^2$/NDF:7732150.4/42

Out: 596.980+/-0.083 $\chi^2$/NDF:10085365.8/50

All: 591.573+/-0.059 $\chi^2$/NDF: 17826279.7/93




Right In: 446.964+/-363.966 $\chi^2$/NDF: 24.7/19

Left Out: 629.379+/-128.853 $\chi^2$/NDF:64.9/24

Right Out: -879.871+/-354.118 $\chi^2$/NDF: 17.5/25

Left In: -8.460+/-131.289 $\chi^2$/NDF:27.3/22

Left: 316.431+/-91.962 $\chi^2$/NDF: 104.2/47

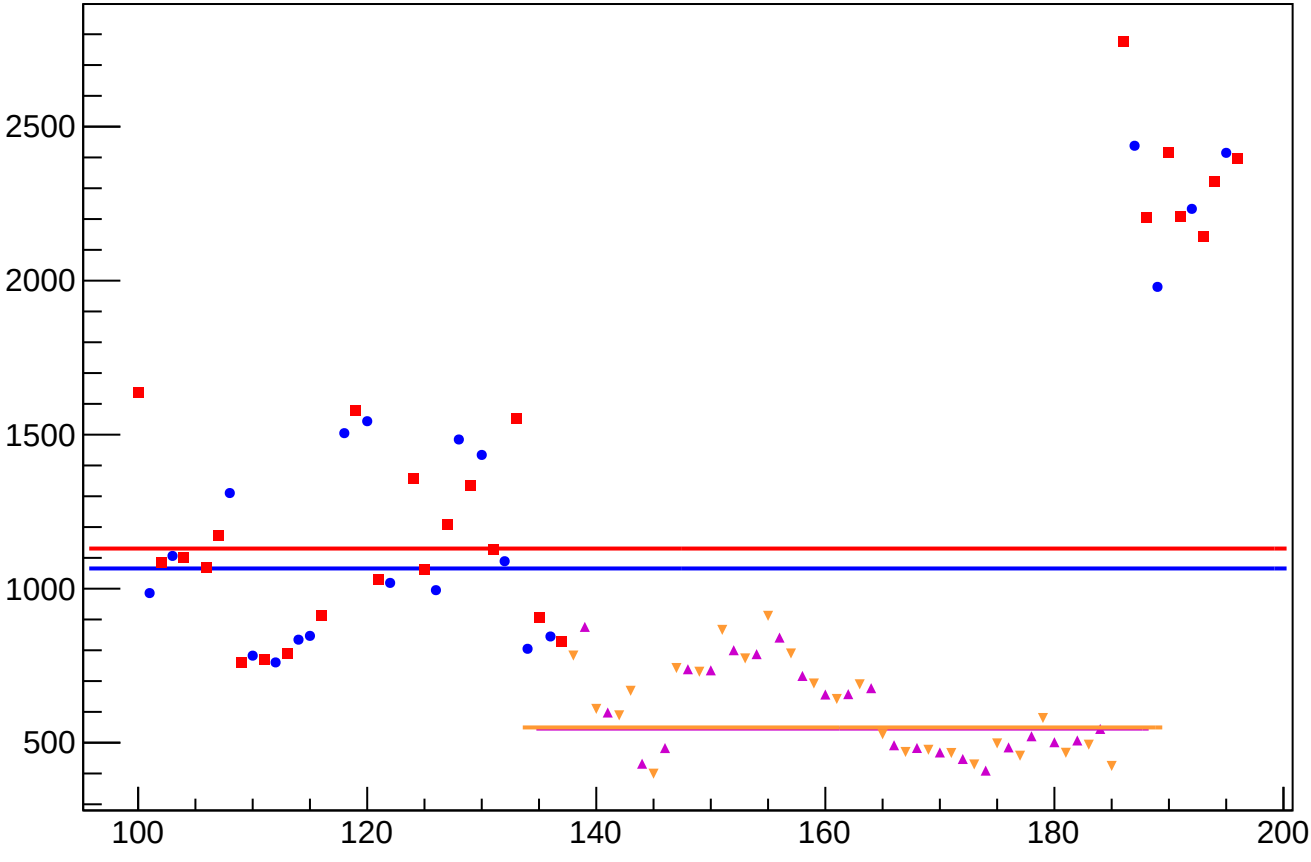
Right: -234.646+/-253.809 $\chi^2$/NDF: 49.0/45

In: 43.976+/-123.500 $\chi^2$/NDF:53.5/42

Out: 452.915+/-121.086 $\chi^2$/NDF:98.4/50

All: 252.481+/-86.462 $\chi^2$/NDF: 157.4/93

# asym_sam_37_avg_rms vs Slug, Sign Corrected




Right In: 1065.614+/-0.257 $\chi^2$/NDF: 2252353.3/19

Left Out: 549.475+/-0.091 $\chi^2$/NDF:2053905.8/24

Right Out: 1130.287+/-0.250 $\chi^2$/NDF: 3306529.4/25

Left In: 545.708+/-0.093 $\chi^2$/NDF:1814508.3/22

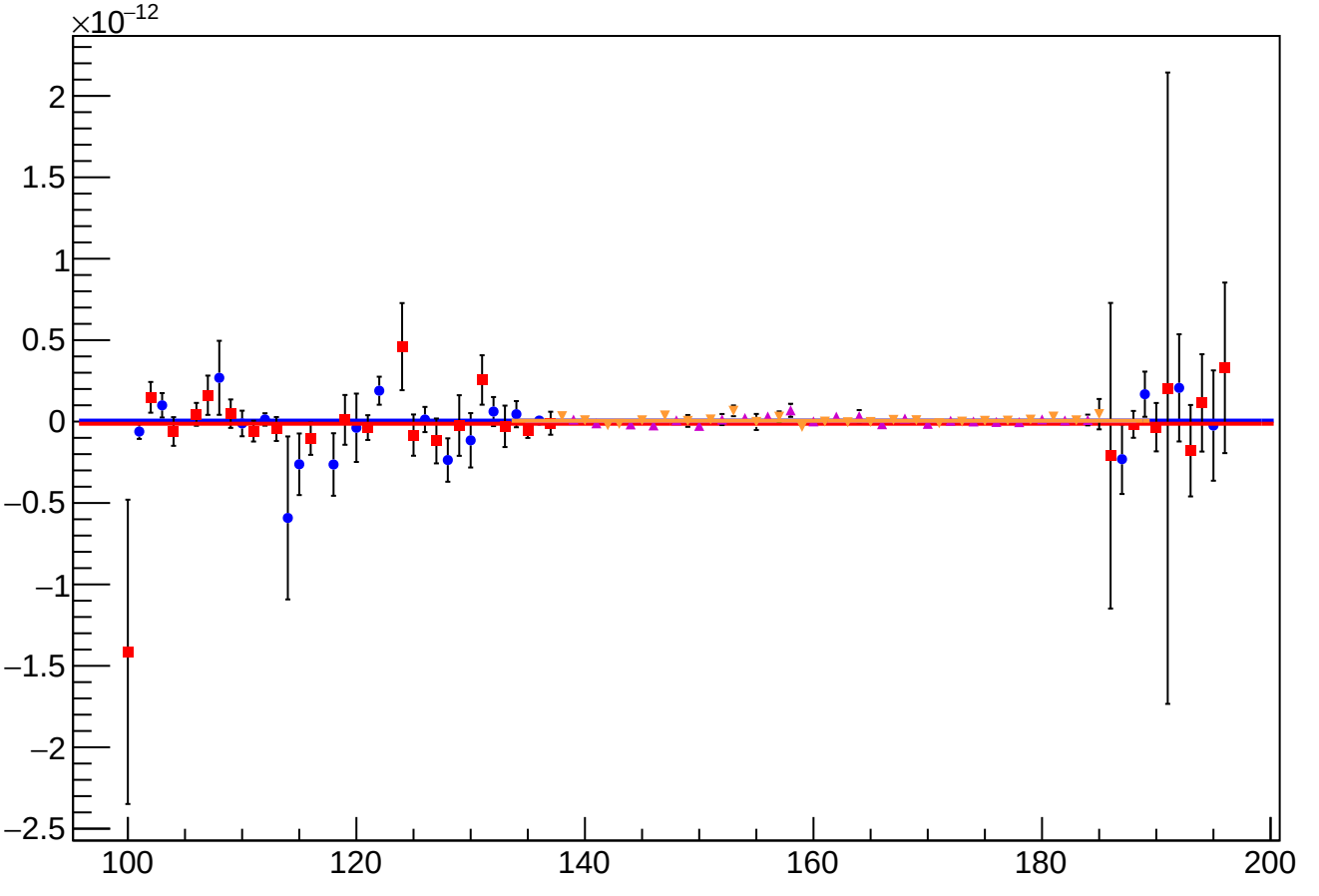
Left: 547.627+/-0.065 $\chi^2$/NDF: 3869252.6/47

Right: 1098.837+/-0.179 $\chi^2$/NDF: 5591321.7/45

In: 605.568+/-0.087 $\chi^2$/NDF:7677927.2/42

Out: 617.384+/-0.086 $\chi^2$/NDF:10111654.5/50

All: 611.593+/-0.061 $\chi^2$/NDF: 17798916.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.0/22

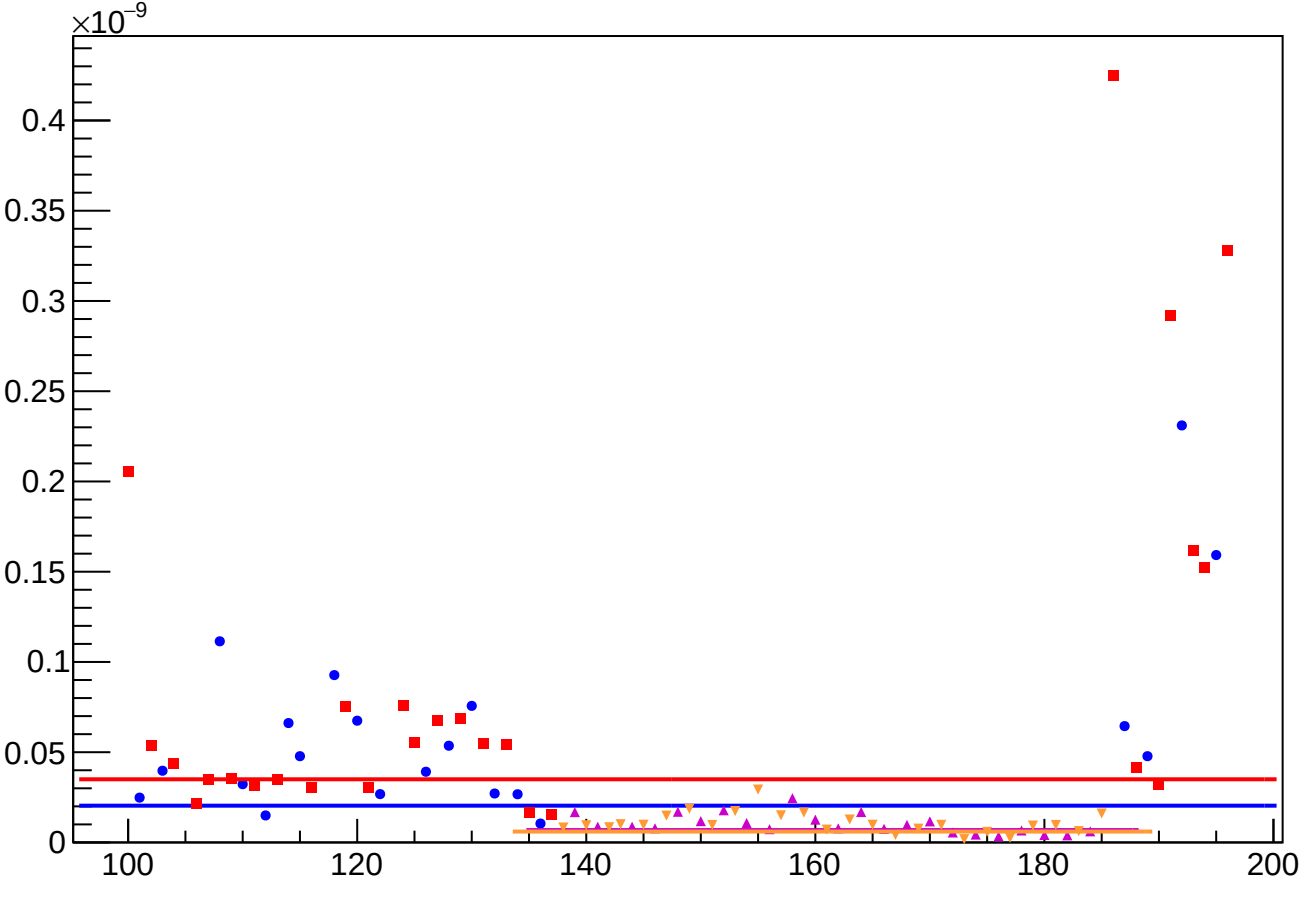
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 42.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:42.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:35.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 78.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3309439.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3623754.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2941201.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2417942.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 6106655.5/47

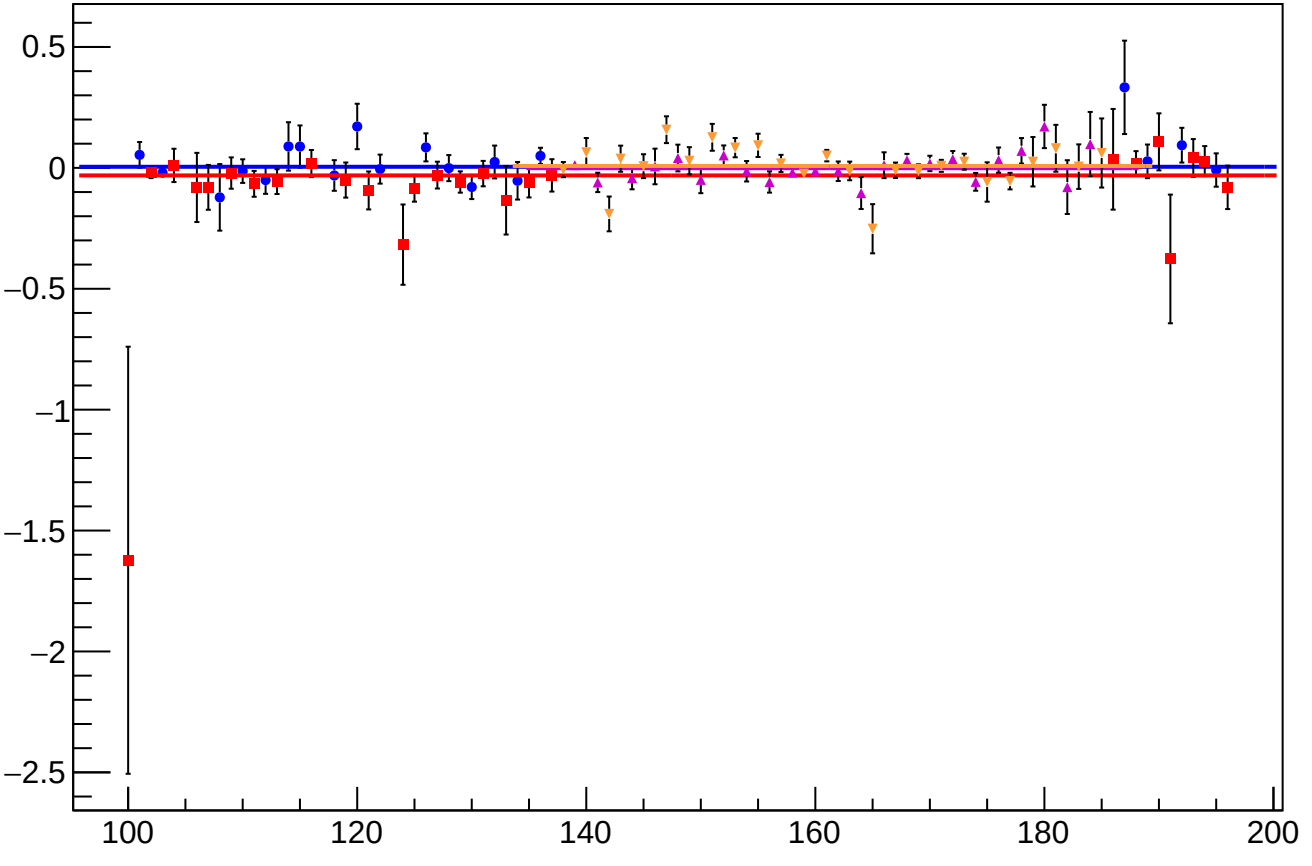
Right: 0.000+/-0.000 $\chi^2$/NDF: 6966641.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:7419478.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10736580.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 18229462.4/93

asym_sam_37_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.012 $\chi^2$/NDF: 21.2/19

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.6/24

Right Out: -0.031+/-0.012 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 73.6/47

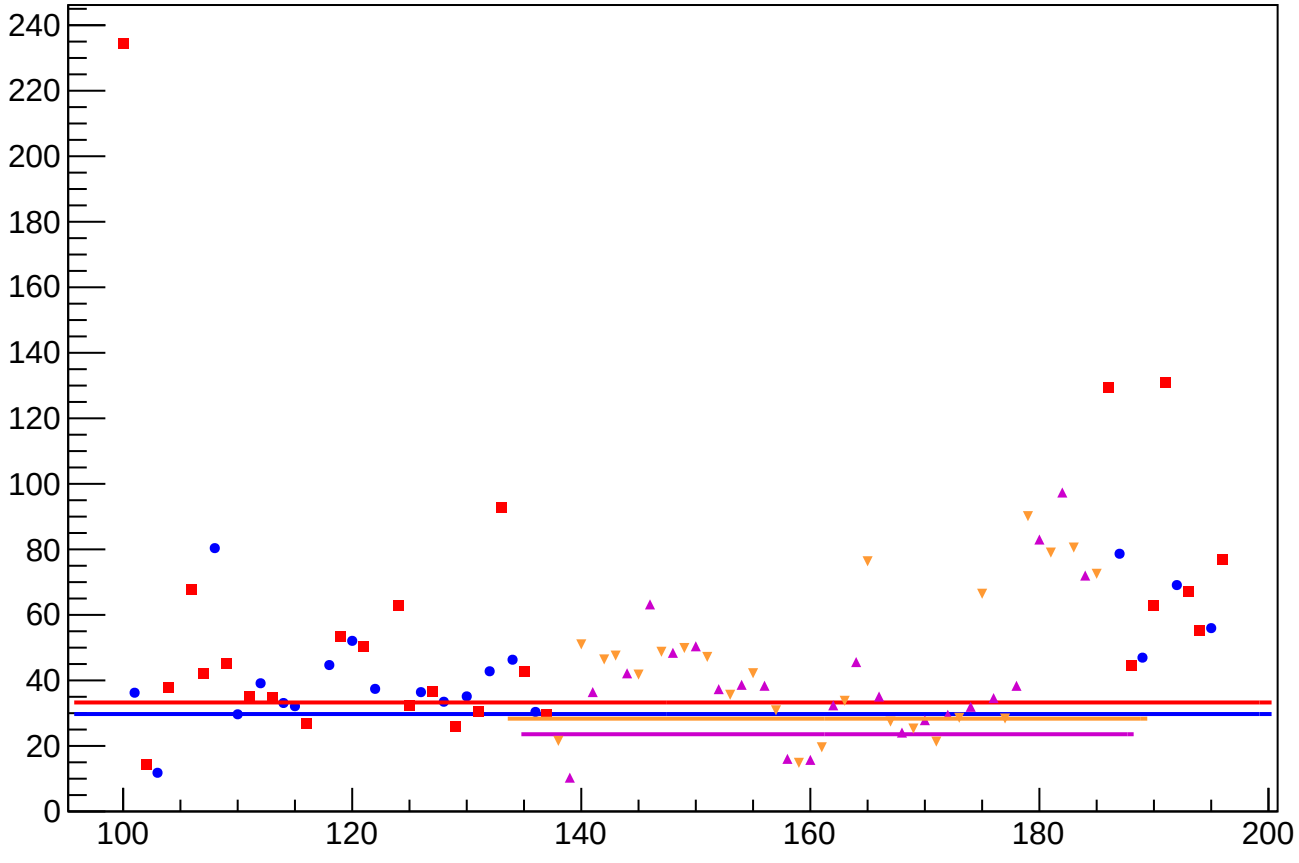
Right: -0.013+/-0.008 $\chi^2$/NDF: 43.6/45

In: 0.000+/-0.006 $\chi^2$/NDF:46.5/42

Out: -0.004+/-0.006 $\chi^2$/NDF:73.1/50

All: -0.002+/-0.004 $\chi^2$/NDF: 119.8/93

asym_sam_37_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.737+/-0.008 $\chi^2$/NDF: 3650460.4/19

Left Out: 28.325+/-0.005 $\chi^2$/NDF:6788307.1/24

Right Out: 33.268+/-0.008 $\chi^2$/NDF: 4706687.8/25

Left In: 23.572+/-0.005 $\chi^2$/NDF:8263833.7/22

Left: 25.694+/-0.004 $\chi^2$/NDF: 15487591.2/47

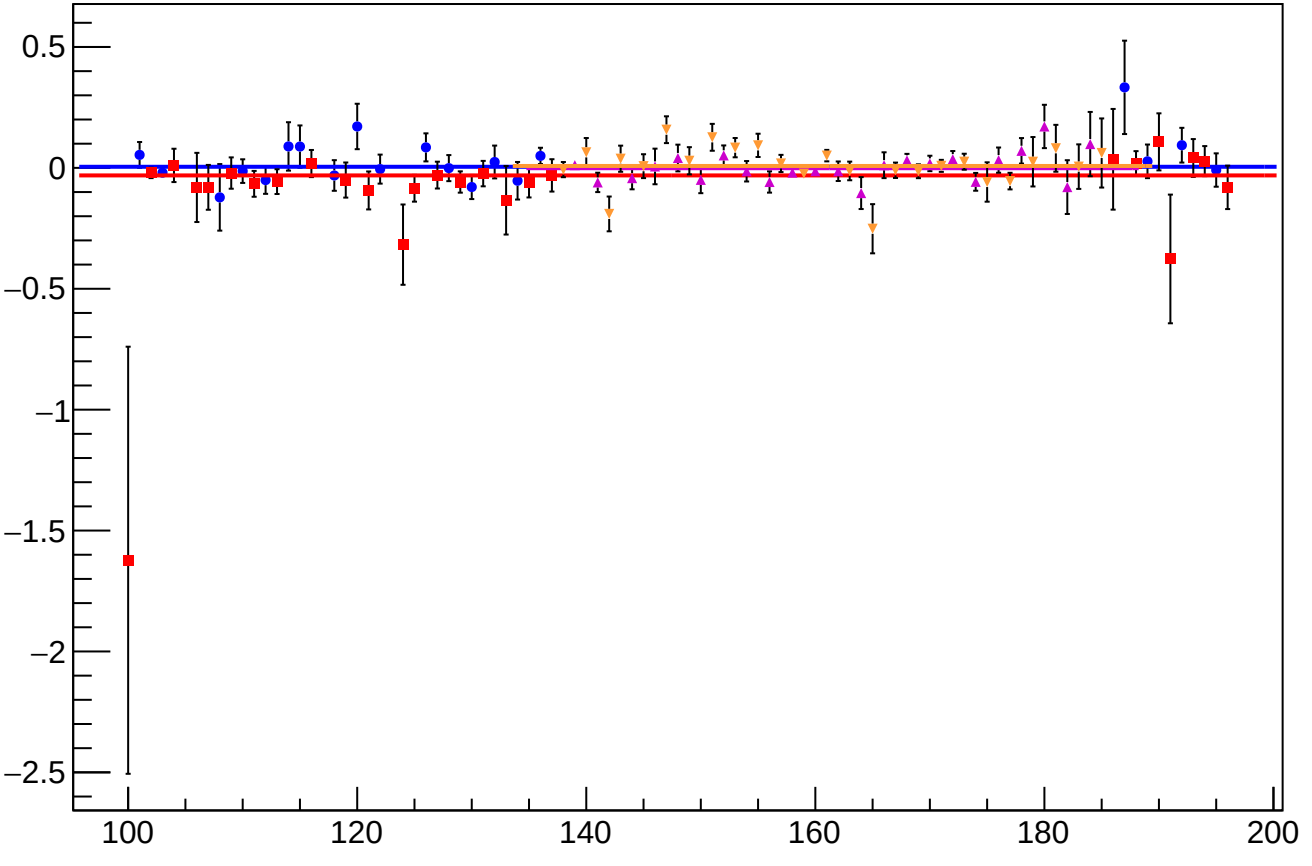
Right: 31.475+/-0.006 $\chi^2$/NDF: 8449767.2/45

In: 25.169+/-0.004 $\chi^2$/NDF:12339261.7/42

Out: 29.787+/-0.004 $\chi^2$/NDF:11746798.0/50

All: 27.289+/-0.003 $\chi^2$/NDF: 24656614.4/93

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.012 $\chi^2$/NDF: 21.2/19

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.6/24

Right Out: -0.031+/-0.012 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 73.6/47

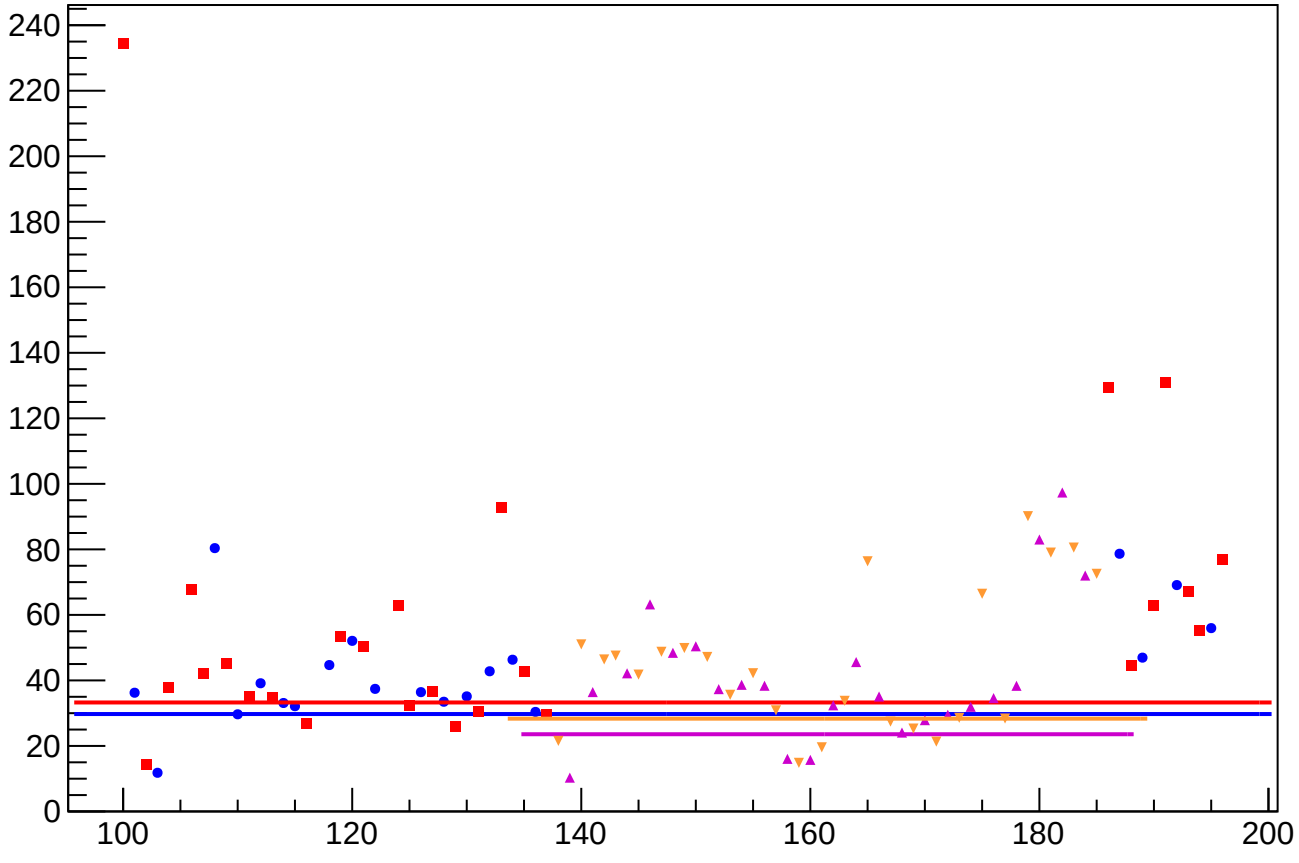
Right: -0.013+/-0.008 $\chi^2$/NDF: 43.6/45

In: 0.000+/-0.006 $\chi^2$/NDF:46.5/42

Out: -0.004+/-0.006 $\chi^2$/NDF:73.1/50

All: -0.002+/-0.004 $\chi^2$/NDF: 119.8/93

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.737+/-0.008 $\chi^2$/NDF: 3650460.4/19

Left Out: 28.325+/-0.005 $\chi^2$/NDF:6788307.1/24

Right Out: 33.268+/-0.008 $\chi^2$/NDF: 4706687.8/25

Left In: 23.572+/-0.005 $\chi^2$/NDF:8263833.7/22

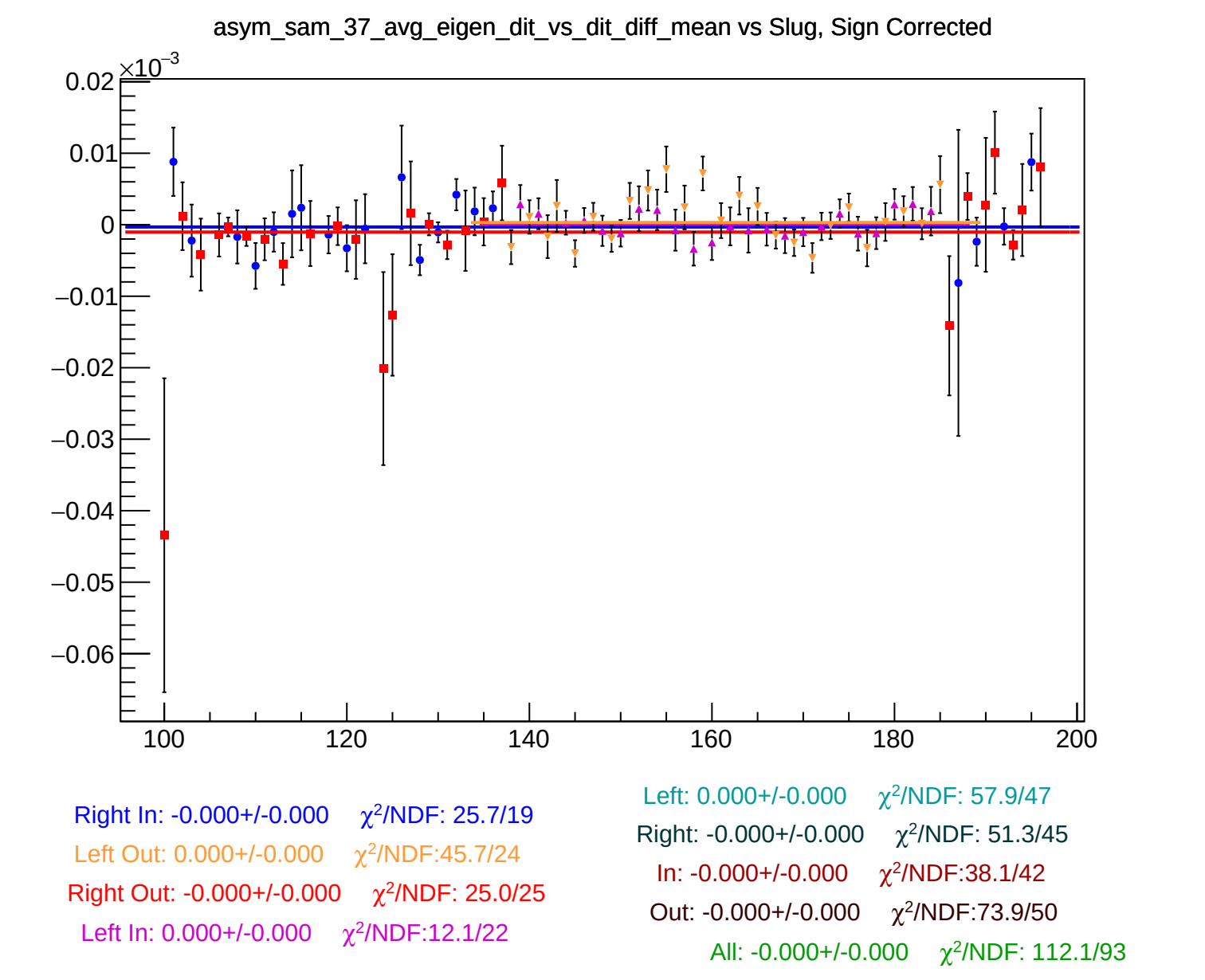
Left: 25.694+/-0.004 $\chi^2$/NDF: 15487591.2/47

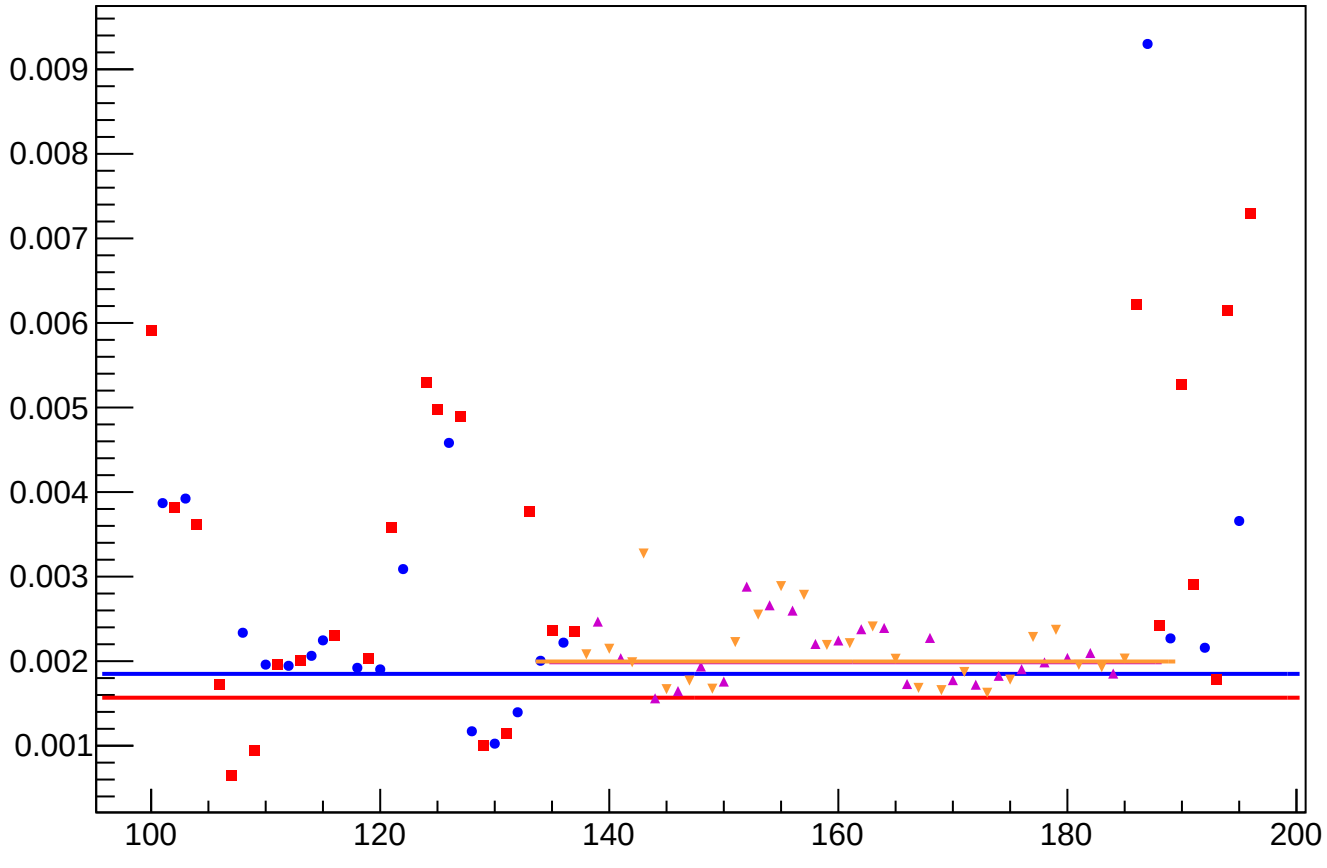
Right: 31.475+/-0.006 $\chi^2$/NDF: 8449767.2/45

In: 25.169+/-0.004 $\chi^2$/NDF:12339261.7/42

Out: 29.787+/-0.004 $\chi^2$/NDF:11746798.0/50

All: 27.289+/-0.003 $\chi^2$/NDF: 24656614.4/93


asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs Slug, Sign Corrected
×10⁻³
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 25.7/19
Left Out: 0.000+/-0.000 χ²/NDF:45.7/24
Right Out: -0.000+/-0.000 χ²/NDF: 25.0/25
Left In: 0.000+/-0.000 χ²/NDF:12.1/22
Left: 0.000+/-0.000 χ²/NDF: 57.9/47
Right: -0.000+/-0.000 χ²/NDF: 51.3/45
In: -0.000+/-0.000 χ²/NDF:38.1/42
Out: -0.000+/-0.000 χ²/NDF:73.9/50
All: -0.000+/-0.000 χ²/NDF: 112.1/93




Right In: 0.002+/-0.000 $\chi^2$/NDF: 2907649.1/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1173308.8/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 7486287.0/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:924009.7/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 2097693.3/47

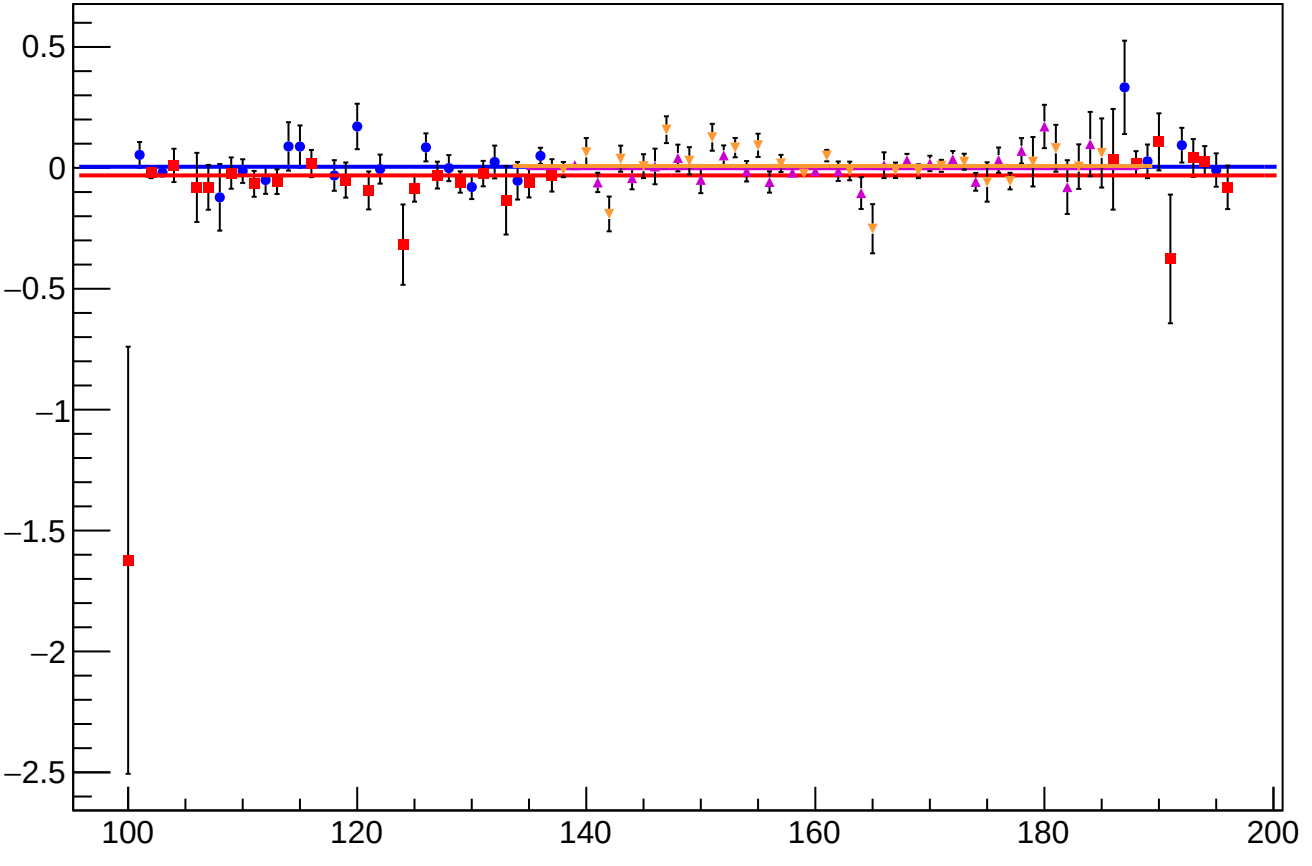
Right: 0.002+/-0.000 $\chi^2$/NDF: 10601205.0/45

In: 0.002+/-0.000 $\chi^2$/NDF:3888199.6/42

Out: 0.002+/-0.000 $\chi^2$/NDF:9342397.9/50

All: 0.002+/-0.000 $\chi^2$/NDF: 13327364.4/93

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.005+/-0.012 $\chi^2$/NDF: 21.2/19

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.6/24

Right Out: -0.031+/-0.012 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 73.6/47

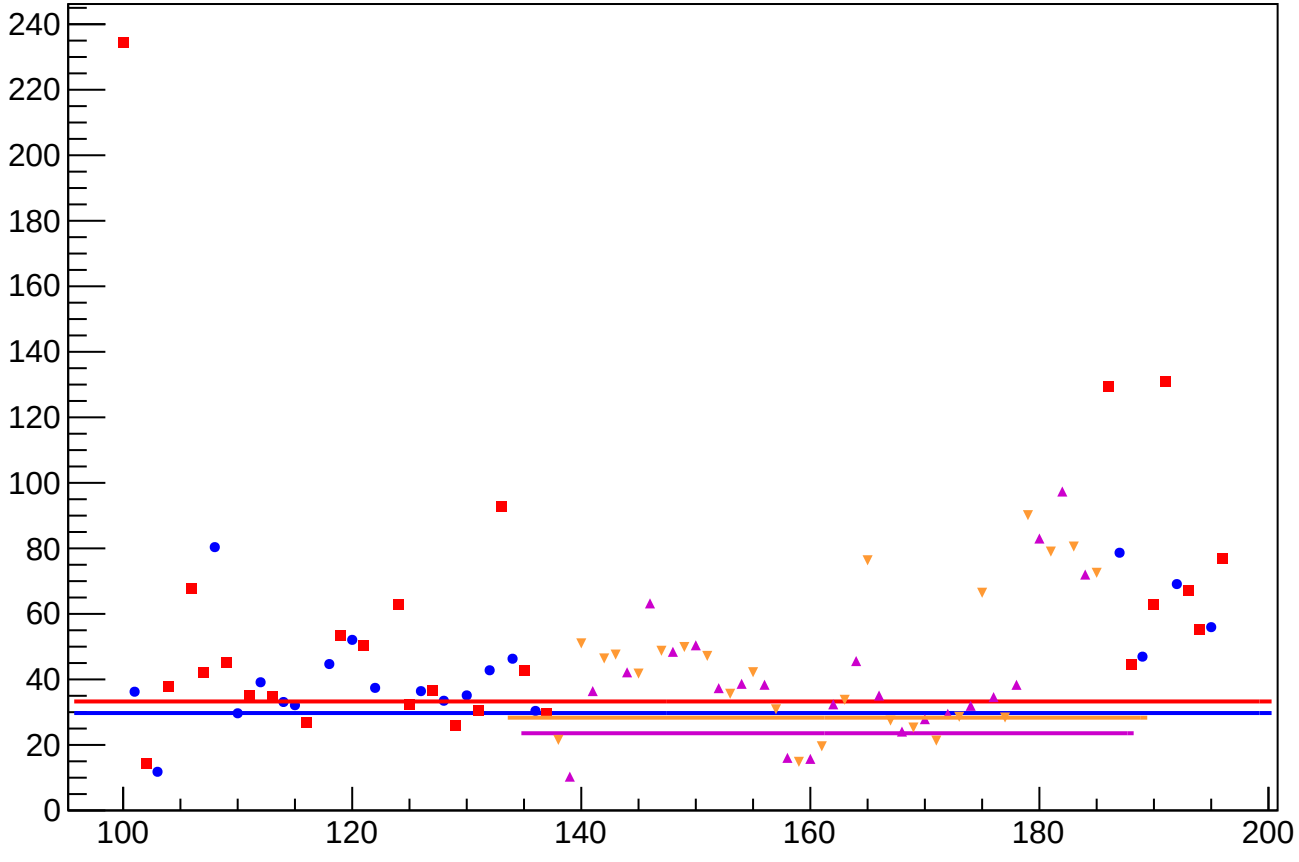
Right: -0.013+/-0.008 $\chi^2$/NDF: 43.6/45

In: 0.000+/-0.006 $\chi^2$/NDF:46.5/42

Out: -0.004+/-0.006 $\chi^2$/NDF:73.1/50

All: -0.002+/-0.004 $\chi^2$/NDF: 119.8/93

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.736+/-0.008 $\chi^2$/NDF: 3650737.7/19

Left Out: 28.324+/-0.005 $\chi^2$/NDF:6788766.1/24

Right Out: 33.271+/-0.008 $\chi^2$/NDF: 4705746.0/25

Left In: 23.571+/-0.005 $\chi^2$/NDF:8264891.4/22

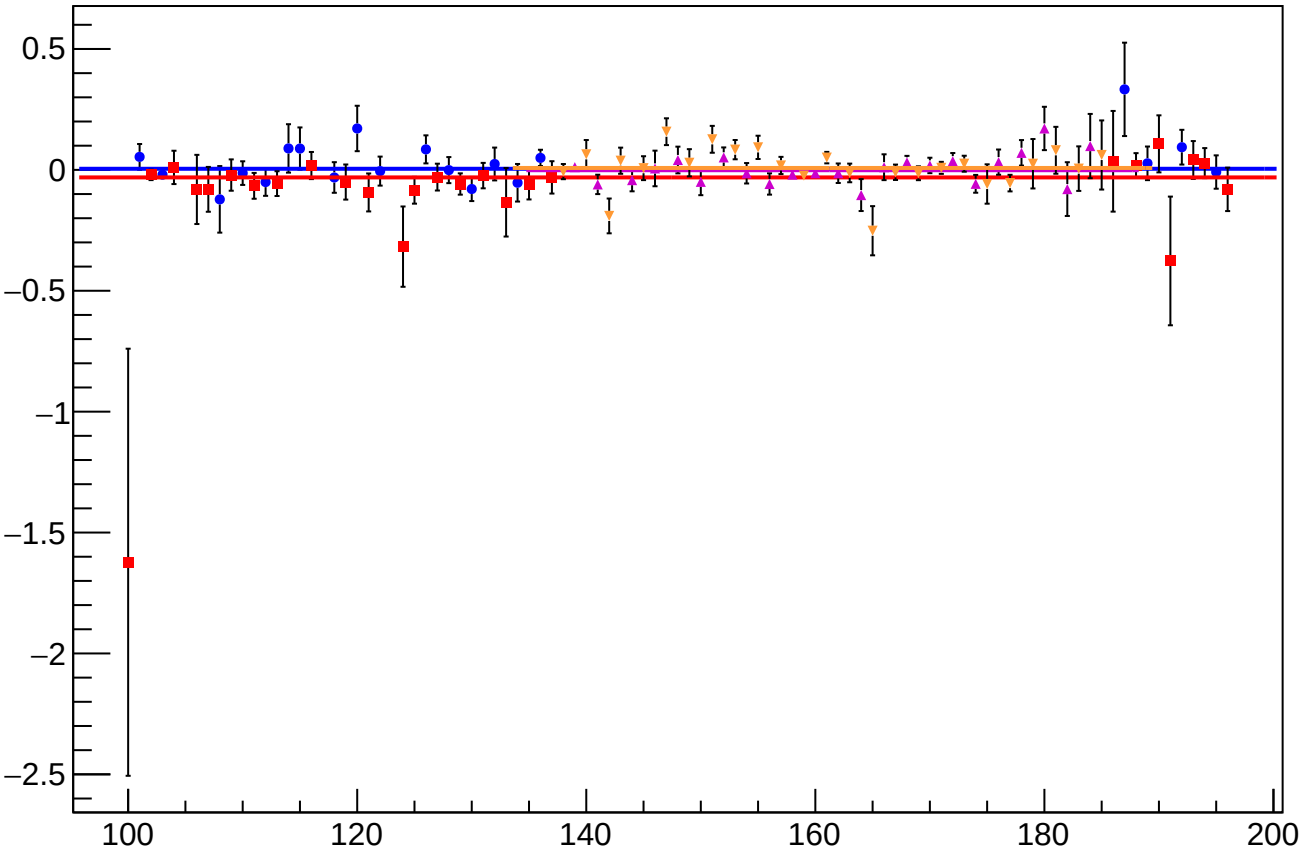
Left: 25.694+/-0.004 $\chi^2$/NDF: 15489262.5/47

Right: 31.476+/-0.006 $\chi^2$/NDF: 8449286.4/45

In: 25.168+/-0.004 $\chi^2$/NDF:12340651.3/42

Out: 29.787+/-0.004 $\chi^2$/NDF:11746616.4/50

All: 27.289+/-0.003 $\chi^2$/NDF: 24658208.0/93




Right In: 0.005+/-0.012 $\chi^2$/NDF: 21.2/19

Left Out: 0.008+/-0.008 $\chi^2$/NDF:47.6/24

Right Out: -0.031+/-0.012 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.003+/-0.005 $\chi^2$/NDF: 73.6/47

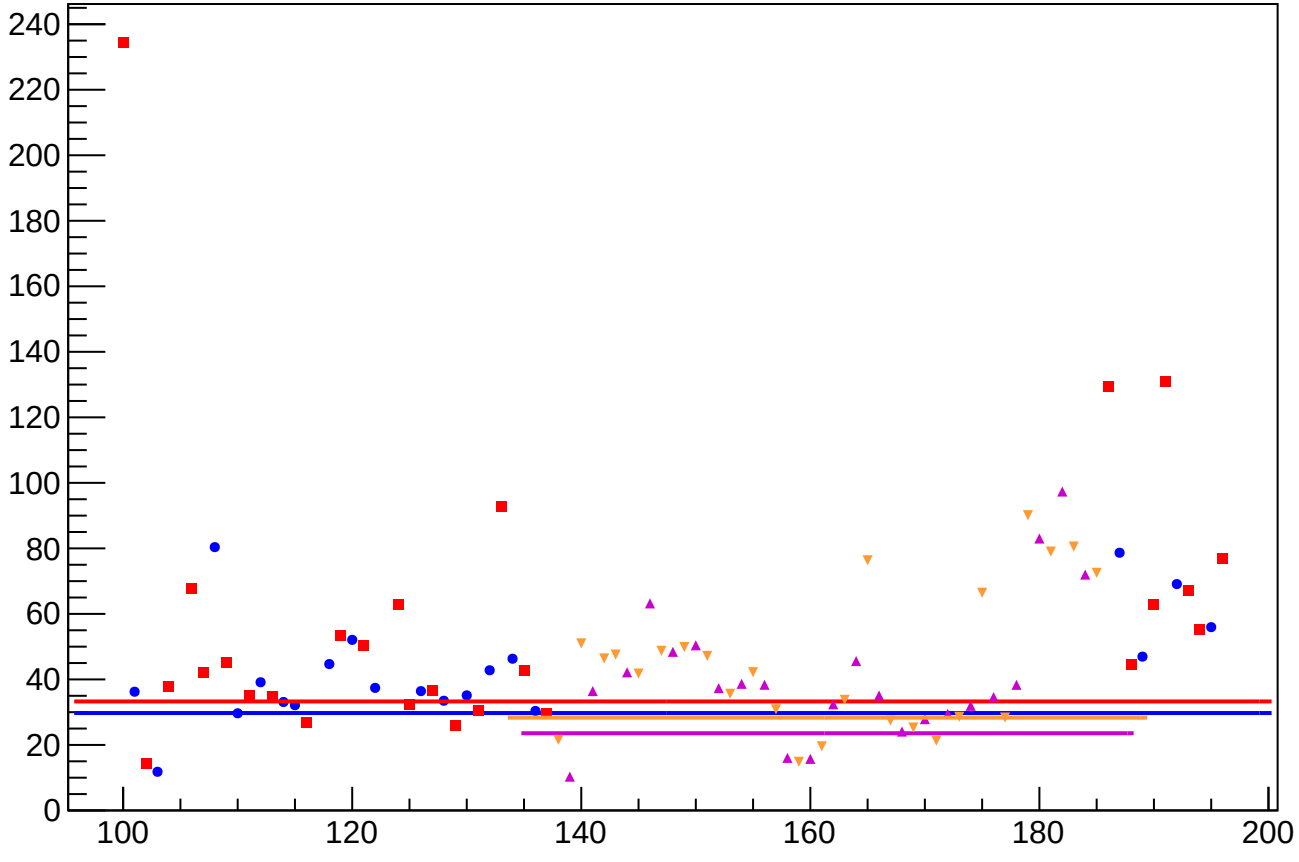
Right: -0.013+/-0.008 $\chi^2$/NDF: 43.6/45

In: 0.000+/-0.006 $\chi^2$/NDF:46.5/42

Out: -0.004+/-0.006 $\chi^2$/NDF:73.1/50

All: -0.002+/-0.004 $\chi^2$/NDF: 119.8/93

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 29.736+/-0.008 $\chi^2$/NDF: 3650737.7/19

Left Out: 28.324+/-0.005 $\chi^2$/NDF:6788766.1/24

Right Out: 33.271+/-0.008 $\chi^2$/NDF: 4705746.0/25

Left In: 23.571+/-0.005 $\chi^2$/NDF:8264891.4/22

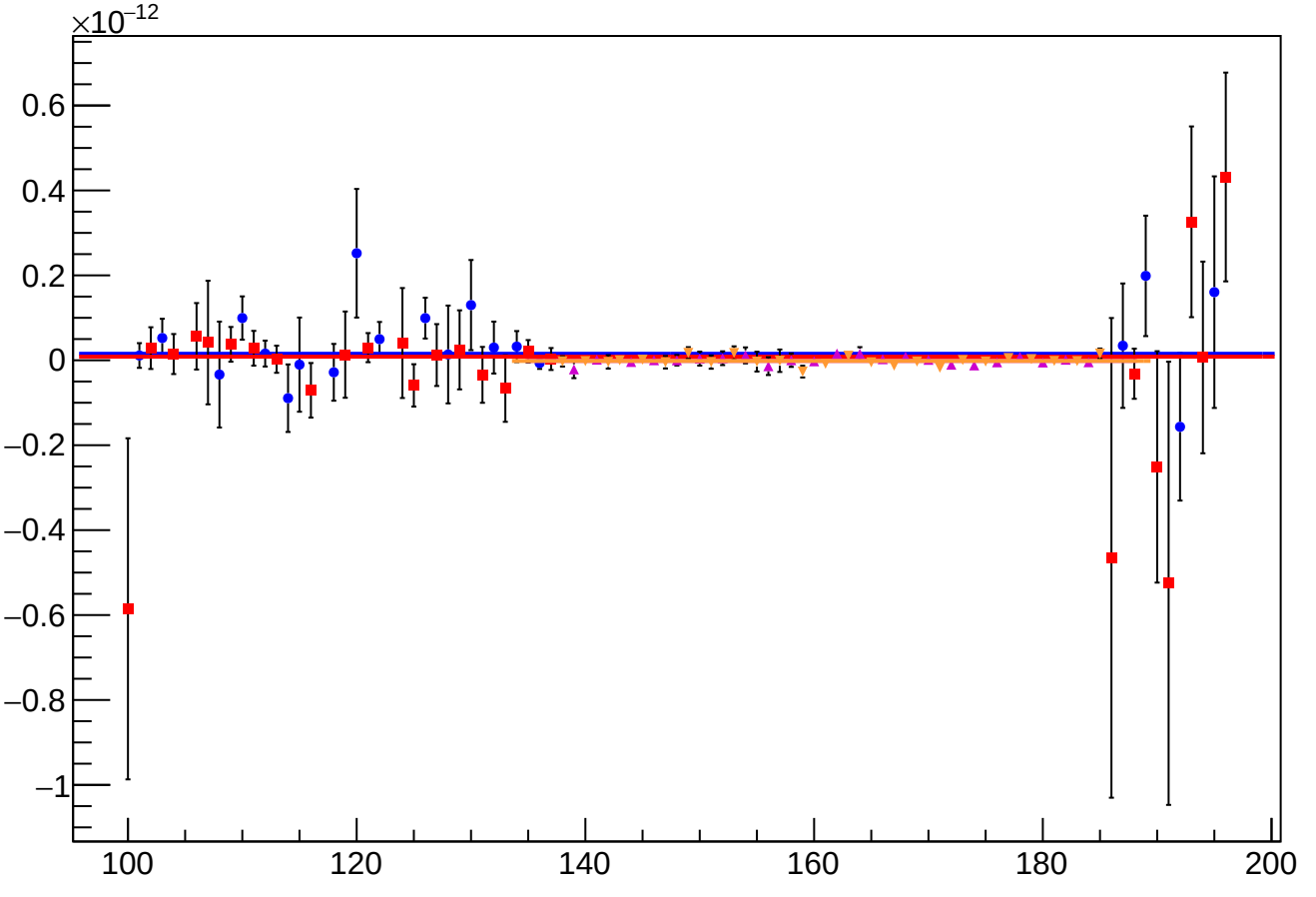
Left: 25.694+/-0.004 $\chi^2$/NDF: 15489262.5/47

Right: 31.476+/-0.006 $\chi^2$/NDF: 8449286.4/45

In: 25.168+/-0.004 $\chi^2$/NDF:12340651.3/42

Out: 29.787+/-0.004 $\chi^2$/NDF:11746616.4/50

All: 27.289+/-0.003 $\chi^2$/NDF: 24658208.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:17.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 17.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.9/22

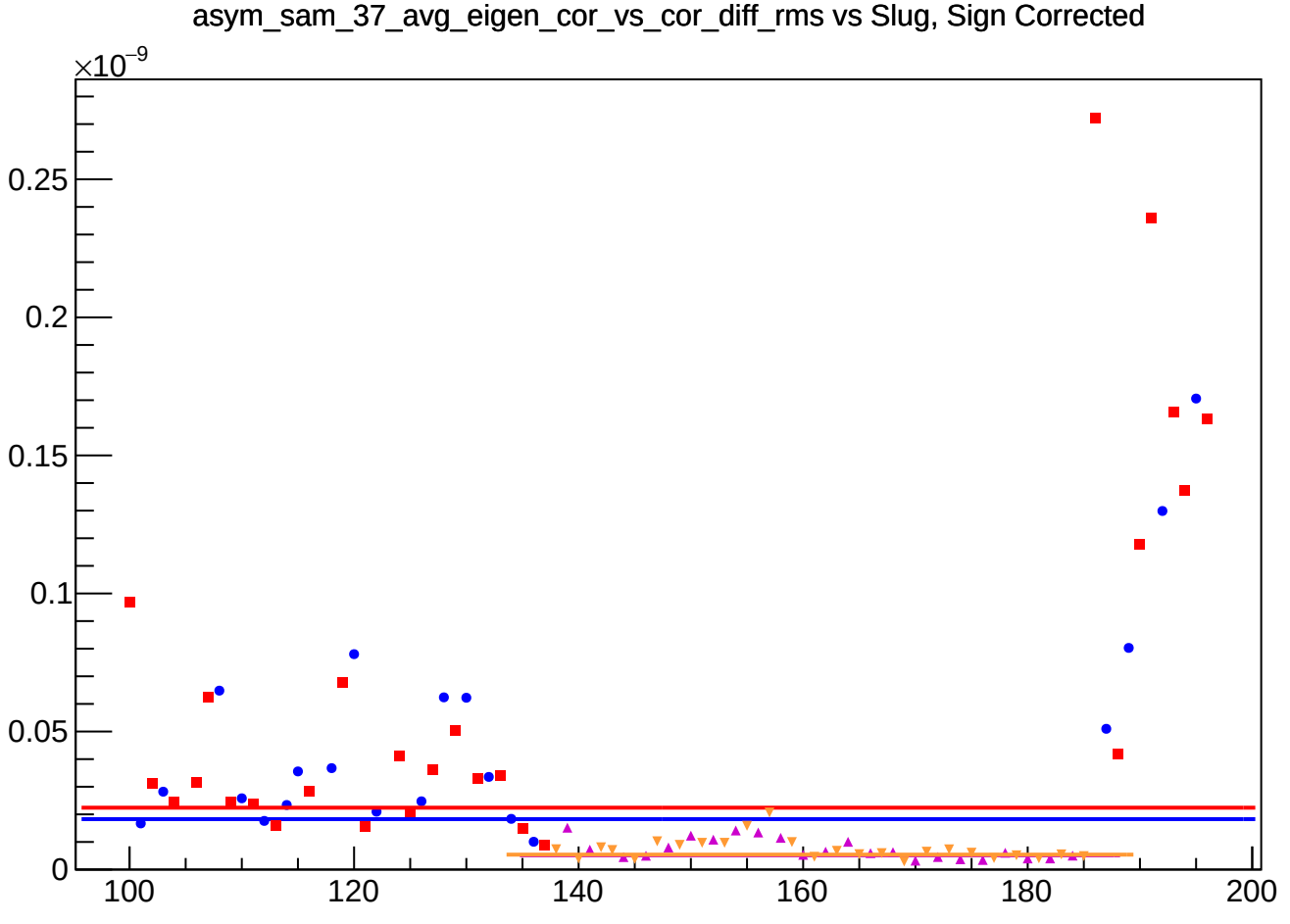
Left: -0.000+/-0.000 $\chi^2$/NDF: 33.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 36.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:37.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:35.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 73.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4392028.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3068356.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5162032.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3390855.0/22

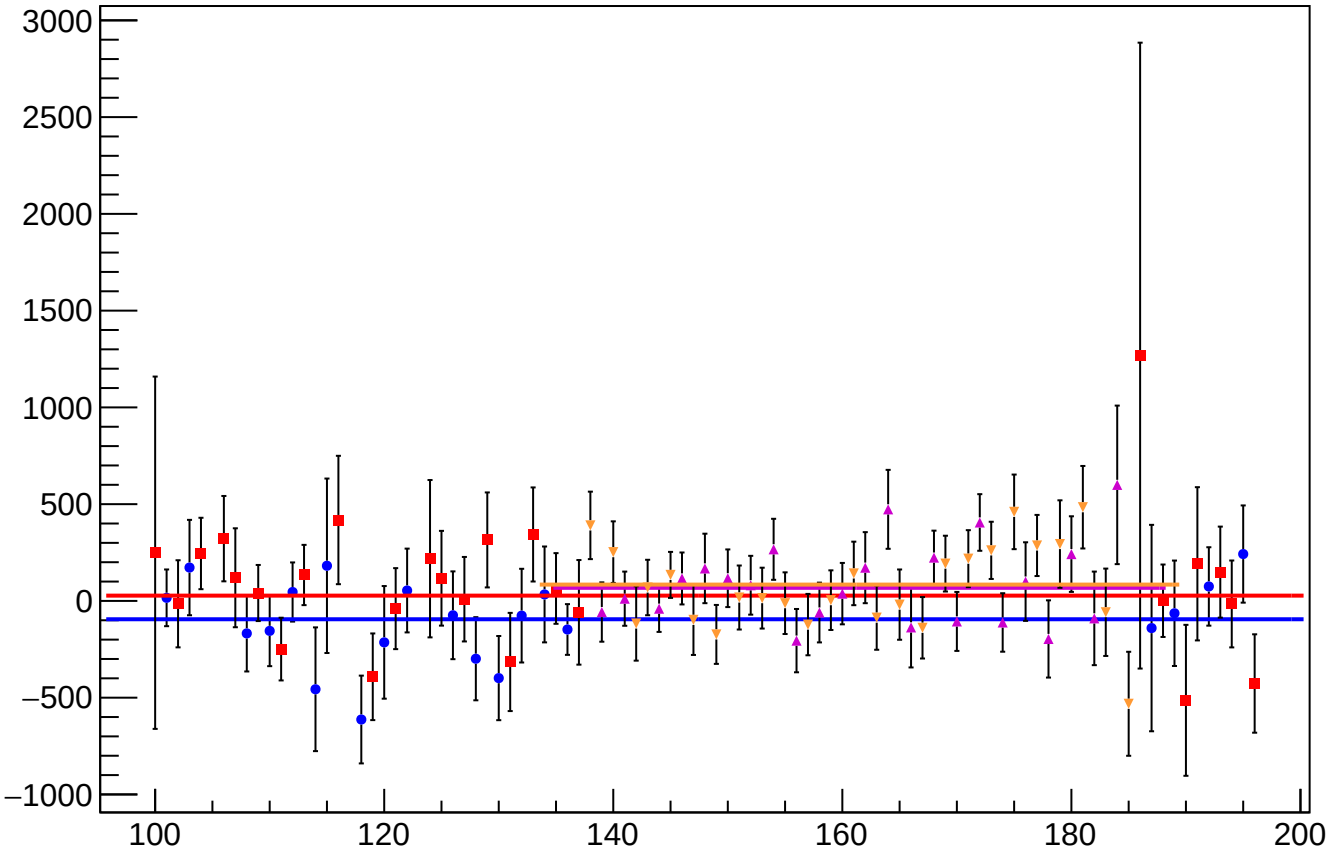
Left: 0.000+/-0.000 $\chi^2$/NDF: 6479218.4/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9724525.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:11555140.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:13234345.5/50

All: 0.000+/-0.000 $\chi^2$/NDF: 24813749.7/93




Right In: -94.752+/-47.666 $\chi^2$/NDF: 16.2/19

Left Out: 84.324+/-33.036 $\chi^2$/NDF:33.8/24

Right Out: 27.344+/-44.868 $\chi^2$/NDF: 23.4/25

Left In: 67.646+/-34.137 $\chi^2$/NDF:26.5/22

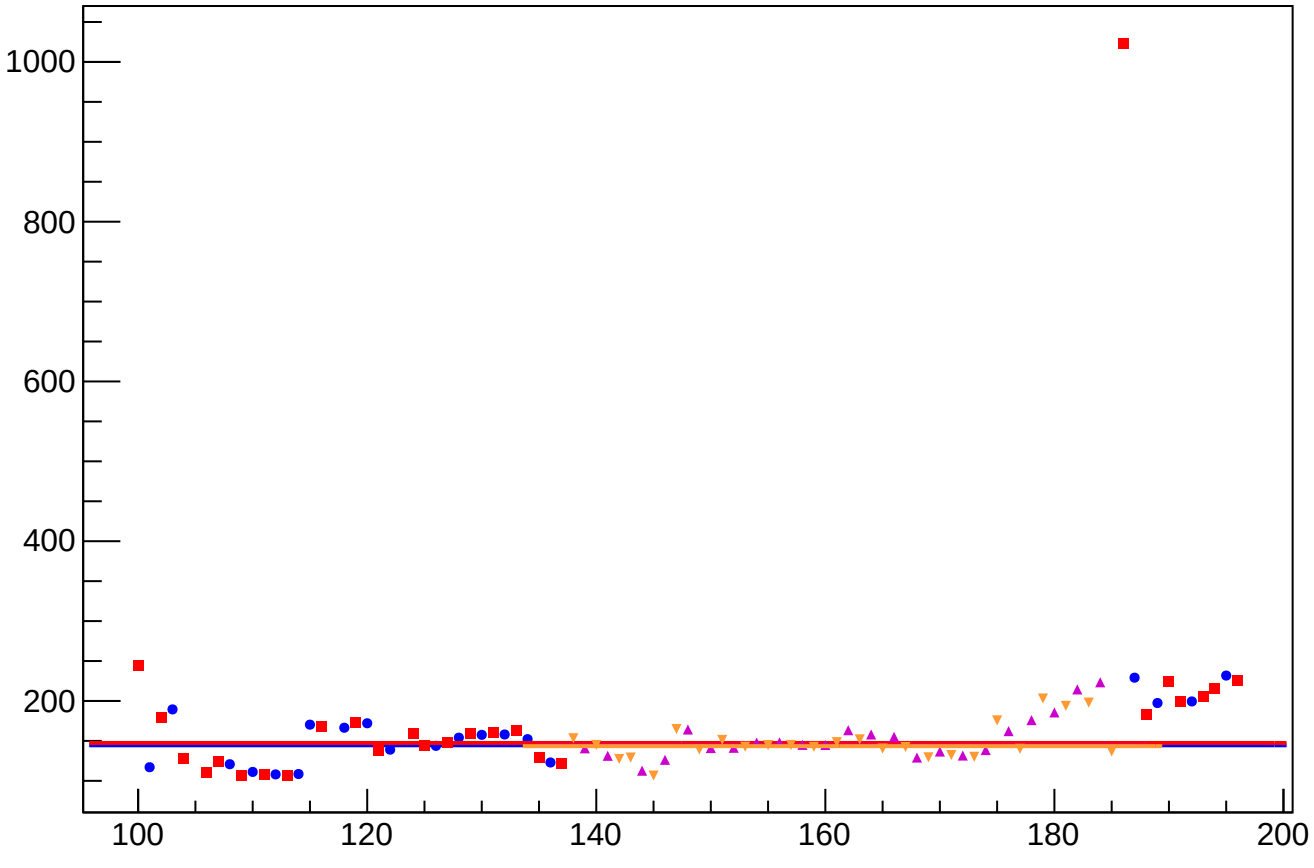
Left: 76.258+/-23.739 $\chi^2$/NDF: 60.5/47

Right: -30.015+/-32.671 $\chi^2$/NDF: 43.0/45

In: 12.591+/-27.754 $\chi^2$/NDF:50.4/42

Out: 64.294+/-26.603 $\chi^2$/NDF:58.2/50

All: 39.537+/-19.205 $\chi^2$/NDF: 110.4/93




Right In: 144.517+/-0.034 $\chi^2$/NDF: 1003758.2/19

Left Out: 143.444+/-0.023 $\chi^2$/NDF:747040.9/24

Right Out: 147.439+/-0.032 $\chi^2$/NDF: 1926279.7/25

Left In: 144.170+/-0.024 $\chi^2$/NDF:702713.8/22

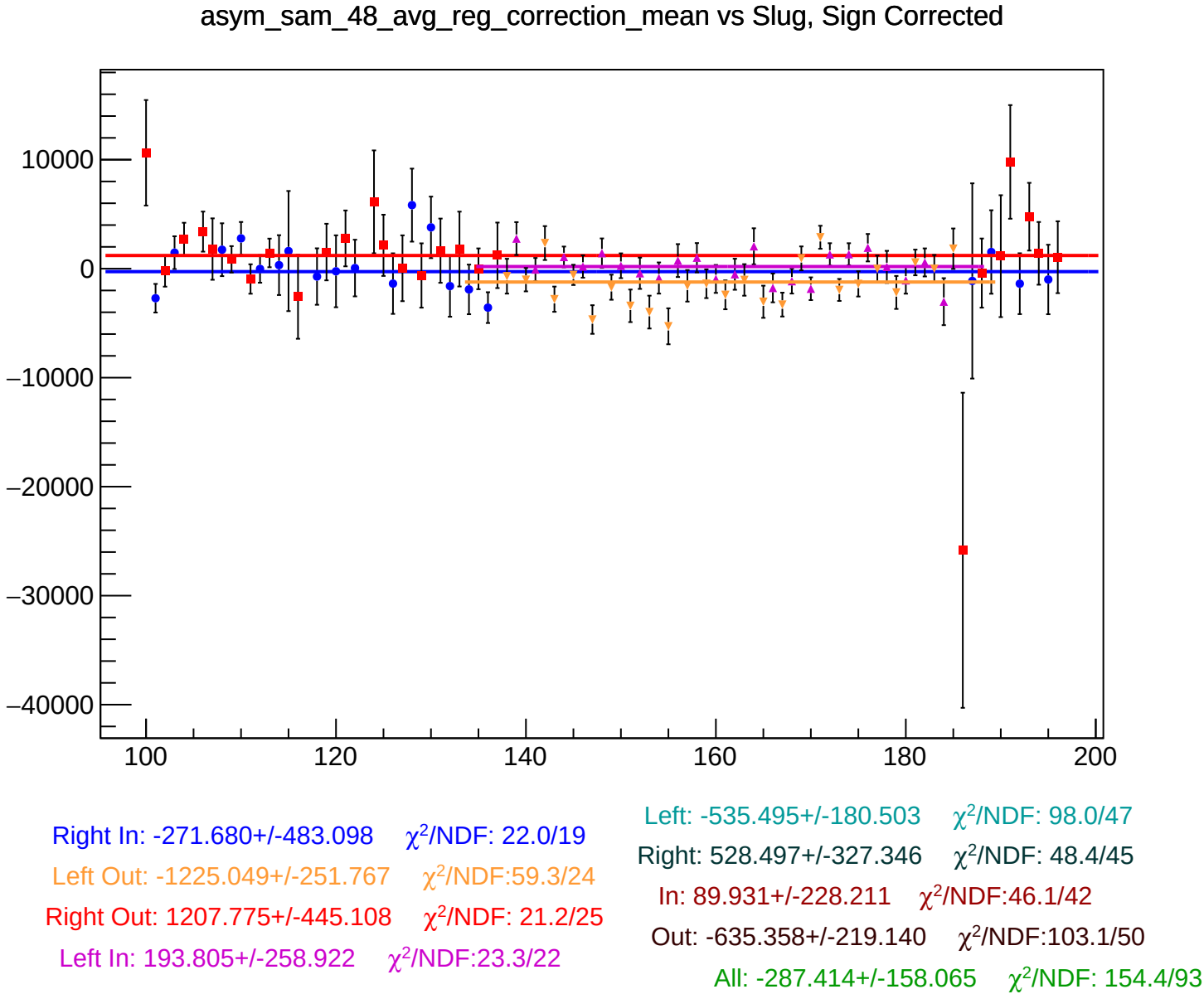
Left: 143.795+/-0.017 $\chi^2$/NDF: 1450223.0/47

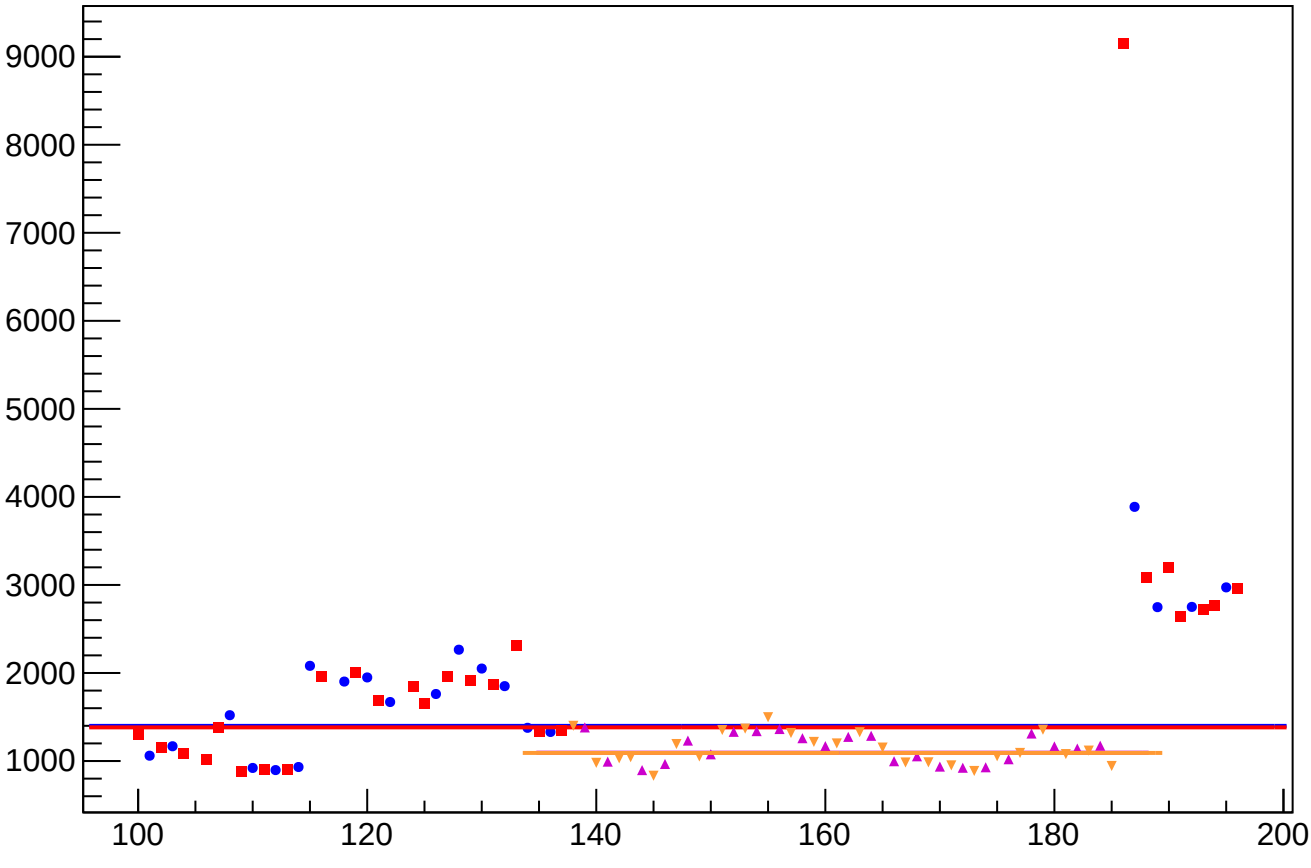
Right: 146.066+/-0.023 $\chi^2$/NDF: 2934022.6/45

In: 144.288+/-0.020 $\chi^2$/NDF:1706541.9/42

Out: 144.848+/-0.019 $\chi^2$/NDF:2683605.8/50

All: 144.580+/-0.014 $\chi^2$/NDF: 4390572.2/93


asym_sam_48_avg_reg_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -271.680+/-483.098 χ²/NDF: 22.0/19
Left Out: -1225.049+/-251.767 χ²/NDF:59.3/24
Right Out: 1207.775+/-445.108 χ²/NDF: 21.2/25
Left In: 193.805+/-258.922 χ²/NDF:23.3/22
Left: -535.495+/-180.503 χ²/NDF: 98.0/47
Right: 528.497+/-327.346 χ²/NDF: 48.4/45
In: 89.931+/-228.211 χ²/NDF:46.1/42
Out: -635.358+/-219.140 χ²/NDF:103.1/50
All: -287.414+/-158.065 χ²/NDF: 154.4/93




Right In: 1399.091+/-0.342 $\chi^2$/NDF: 2630882.1/19

Left Out: 1091.980+/-0.178 $\chi^2$/NDF:892442.4/24

Right Out: 1382.232+/-0.315 $\chi^2$/NDF: 4409510.2/25

Left In: 1094.478+/-0.183 $\chi^2$/NDF:732975.2/22

Left: 1093.194+/-0.128 $\chi^2$/NDF: 1625513.3/47

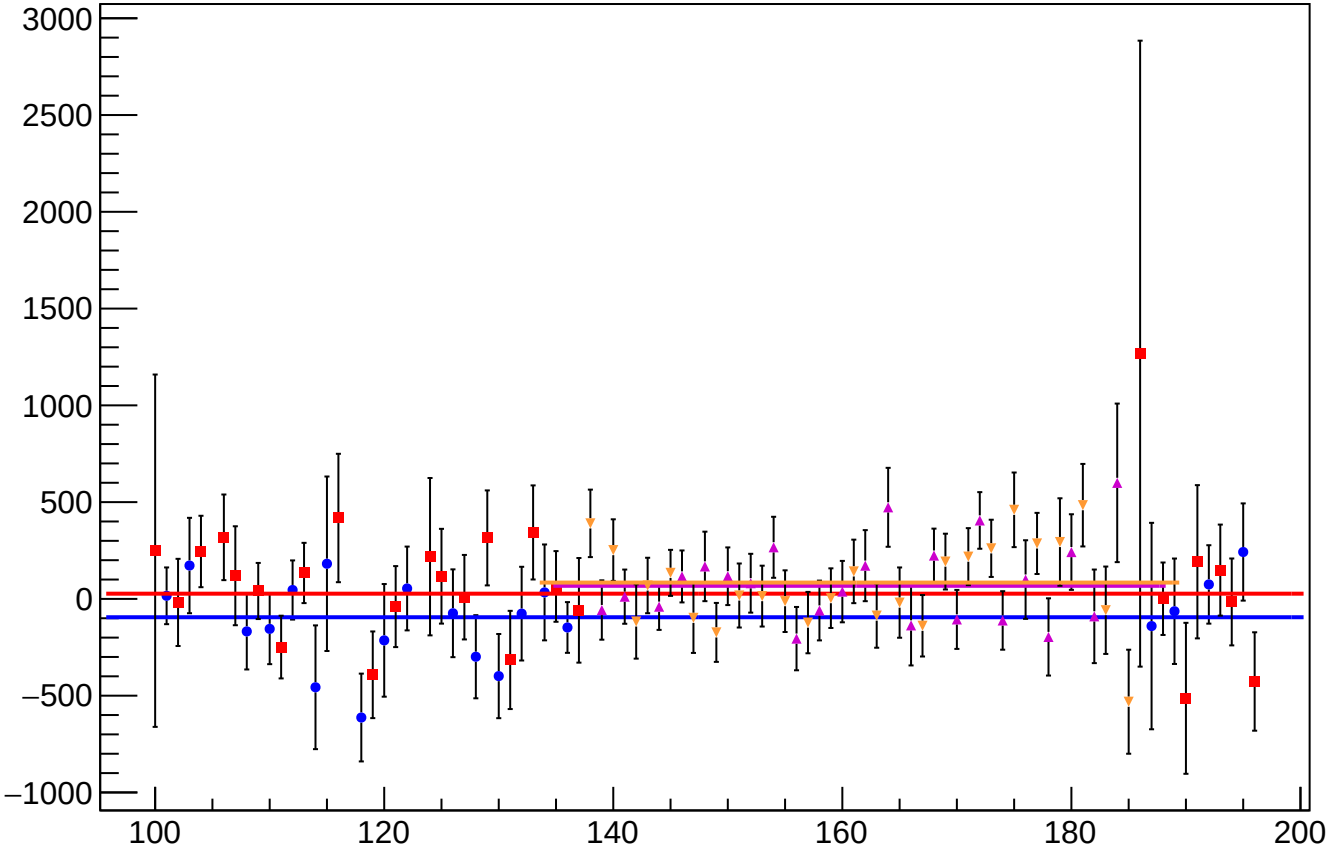
Right: 1389.973+/-0.231 $\chi^2$/NDF: 7041709.8/45

In: 1162.454+/-0.161 $\chi^2$/NDF:3981577.6/42

Out: 1162.334+/-0.155 $\chi^2$/NDF:5946265.7/50

All: 1162.391+/-0.112 $\chi^2$/NDF: 9927843.6/93

# cor_asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: -94.758+/-47.666 $\chi^2$/NDF: 16.2/19

Left Out: 84.338+/-33.036 $\chi^2$/NDF:33.8/24

Right Out: 26.985+/-44.875 $\chi^2$/NDF: 23.3/25

Left In: 67.648+/-34.137 $\chi^2$/NDF:26.5/22

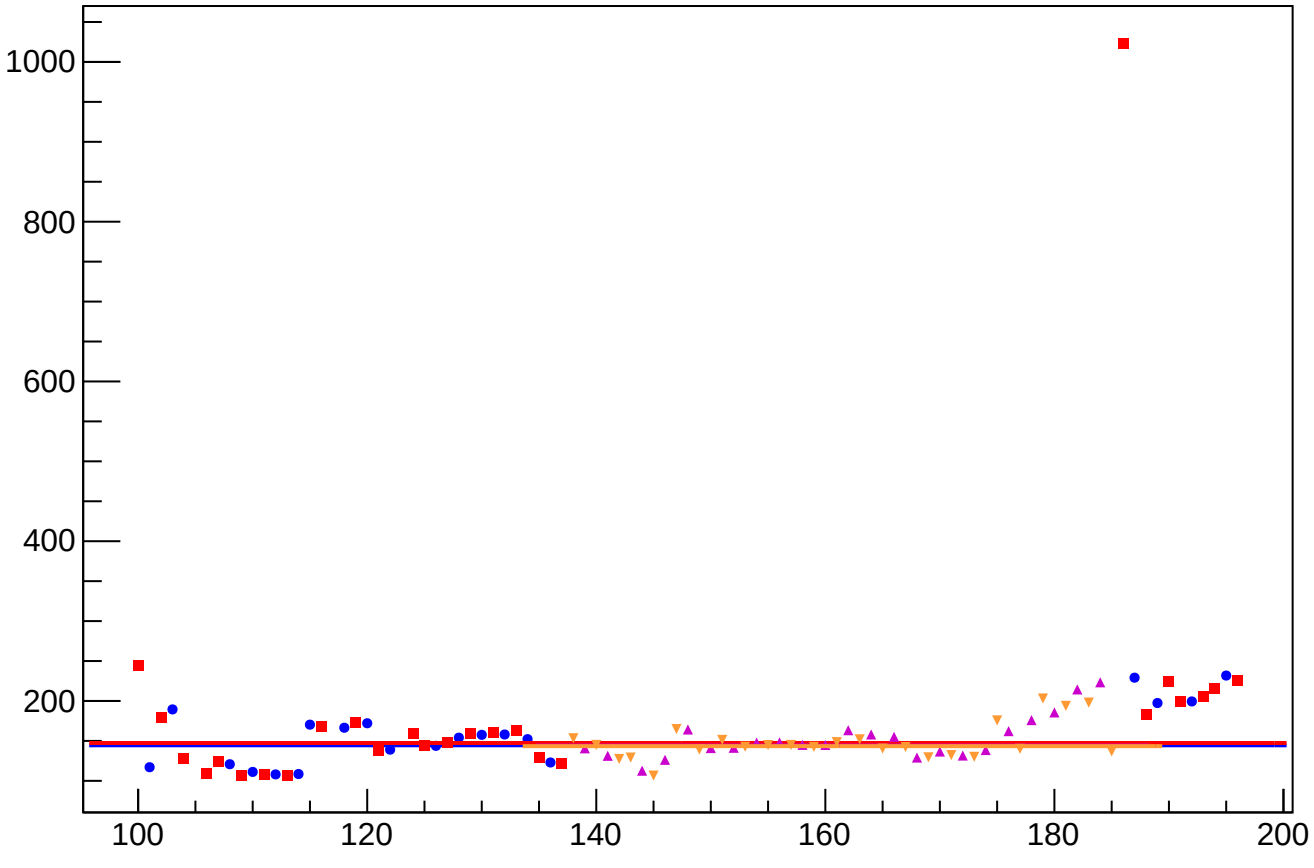
Left: 76.266+/-23.739 $\chi^2$/NDF: 60.5/47

Right: -30.218+/-32.674 $\chi^2$/NDF: 43.0/45

In: 12.590+/-27.754 $\chi^2$/NDF:50.4/42

Out: 64.180+/-26.604 $\chi^2$/NDF:58.2/50

All: 39.476+/-19.205 $\chi^2$/NDF: 110.4/93




Right In: 144.517+/-0.034 $\chi^2$/NDF: 1003760.9/19

Left Out: 143.444+/-0.023 $\chi^2$/NDF:747040.9/24

Right Out: 147.385+/-0.032 $\chi^2$/NDF: 1931028.9/25

Left In: 144.170+/-0.024 $\chi^2$/NDF:702713.8/22

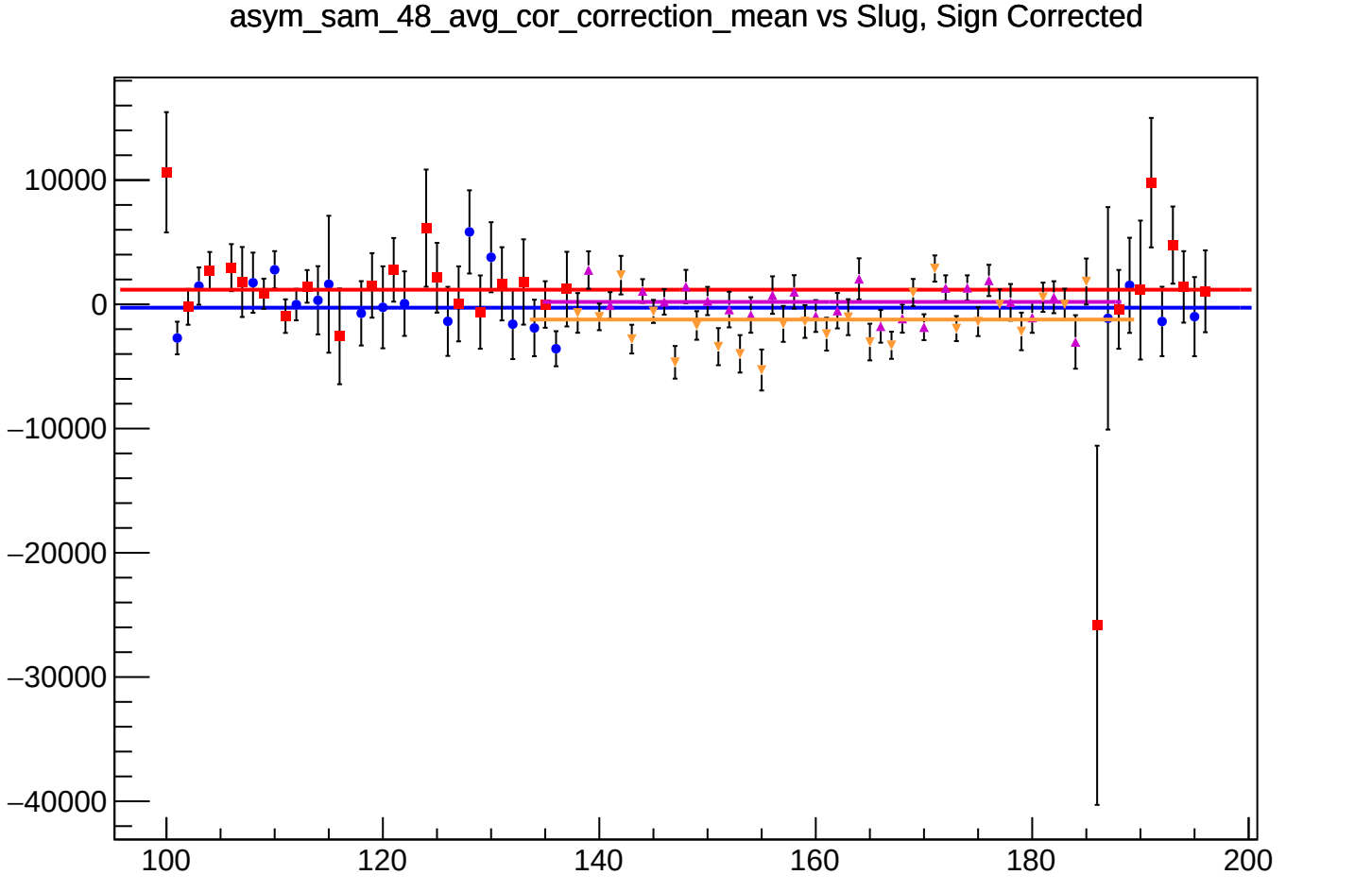
Left: 143.795+/-0.017 $\chi^2$/NDF: 1450223.1/47

Right: 146.038+/-0.023 $\chi^2$/NDF: 2938627.4/45

In: 144.288+/-0.020 $\chi^2$/NDF:1706544.6/42

Out: 144.829+/-0.019 $\chi^2$/NDF:2688075.9/50

All: 144.570+/-0.014 $\chi^2$/NDF: 4395016.2/93




Right In: -271.745+/-483.102 $\chi^2$/NDF: 22.0/19

Left Out: -1225.031+/-251.767 $\chi^2$/NDF:59.3/24

Right Out: 1176.201+/-445.900 $\chi^2$/NDF: 20.7/25

Left In: 193.808+/-258.922 $\chi^2$/NDF:23.3/22

Left: -535.485+/-180.503 $\chi^2$/NDF: 98.0/47

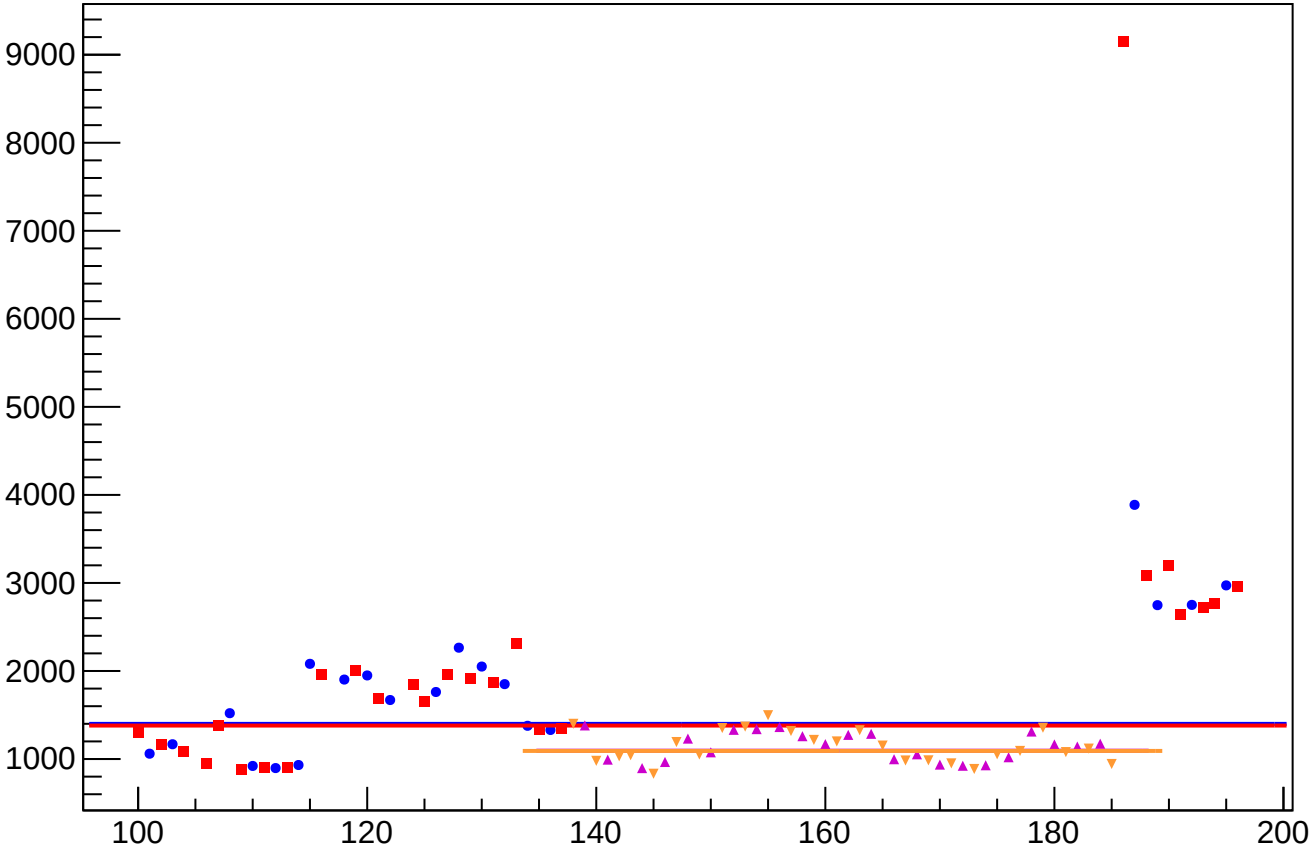
Right: 510.118+/-327.663 $\chi^2$/NDF: 47.5/45

In: 89.920+/-228.211 $\chi^2$/NDF:46.1/42

Out: -644.565+/-219.235 $\chi^2$/NDF:101.9/50

All: -292.052+/-158.101 $\chi^2$/NDF: 153.3/93

asym_sam_48_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 1399.106+/-0.342 $\chi^2$/NDF: 2630830.9/19

Left Out: 1091.979+/-0.178 $\chi^2$/NDF:892441.9/24

Right Out: 1380.154+/-0.315 $\chi^2$/NDF: 4431873.2/25

Left In: 1094.479+/-0.183 $\chi^2$/NDF:732975.7/22

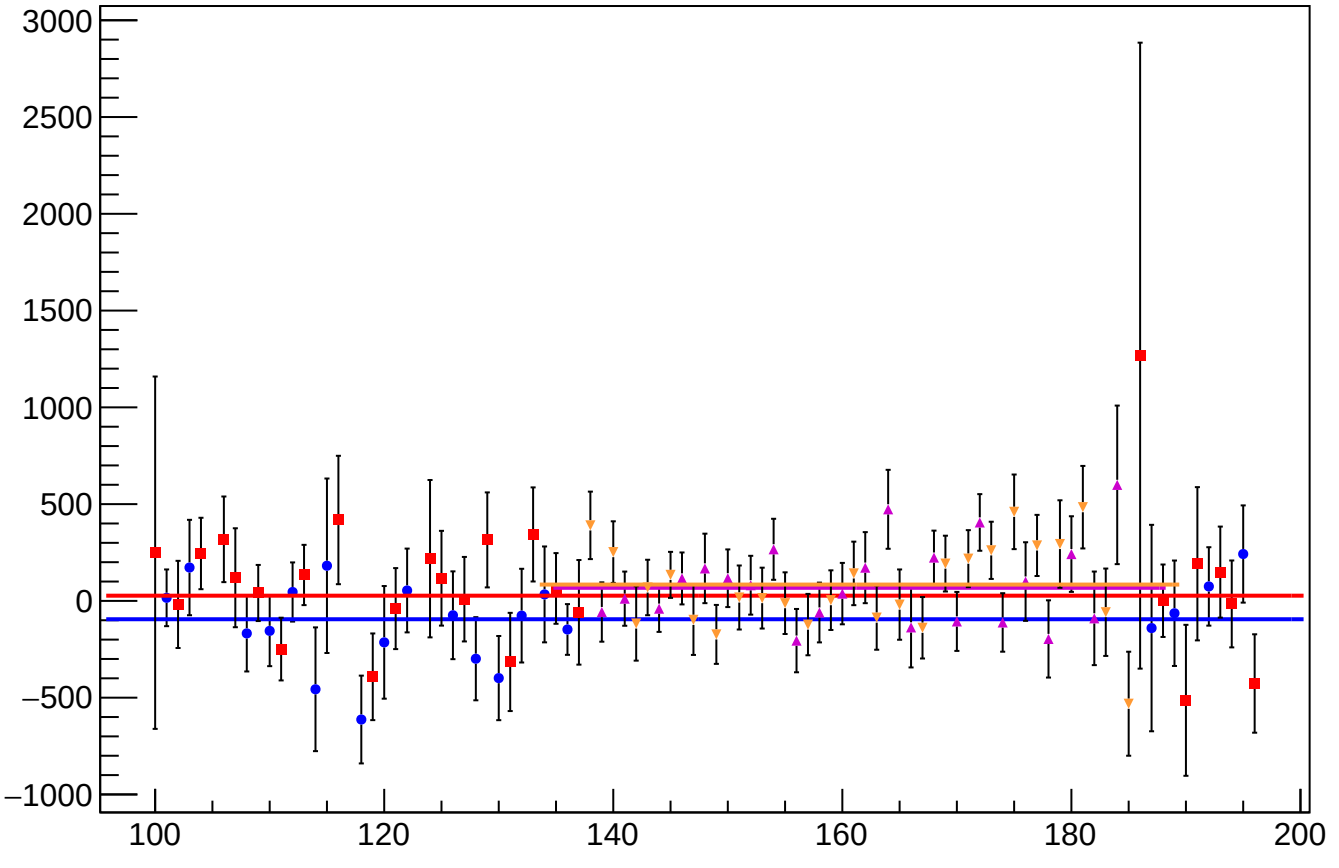
Left: 1093.194+/-0.128 $\chi^2$/NDF: 1625513.3/47

Right: 1388.872+/-0.232 $\chi^2$/NDF: 7064366.1/45

In: 1162.456+/-0.161 $\chi^2$/NDF:3981576.8/42

Out: 1161.642+/-0.155 $\chi^2$/NDF:5957725.0/50

All: 1162.033+/-0.112 $\chi^2$/NDF: 9939315.1/93




Right In: -94.758+/-47.666 $\chi^2$/NDF: 16.2/19

Left Out: 84.338+/-33.036 $\chi^2$/NDF:33.8/24

Right Out: 26.985+/-44.875 $\chi^2$/NDF: 23.3/25

Left In: 67.648+/-34.137 $\chi^2$/NDF:26.5/22

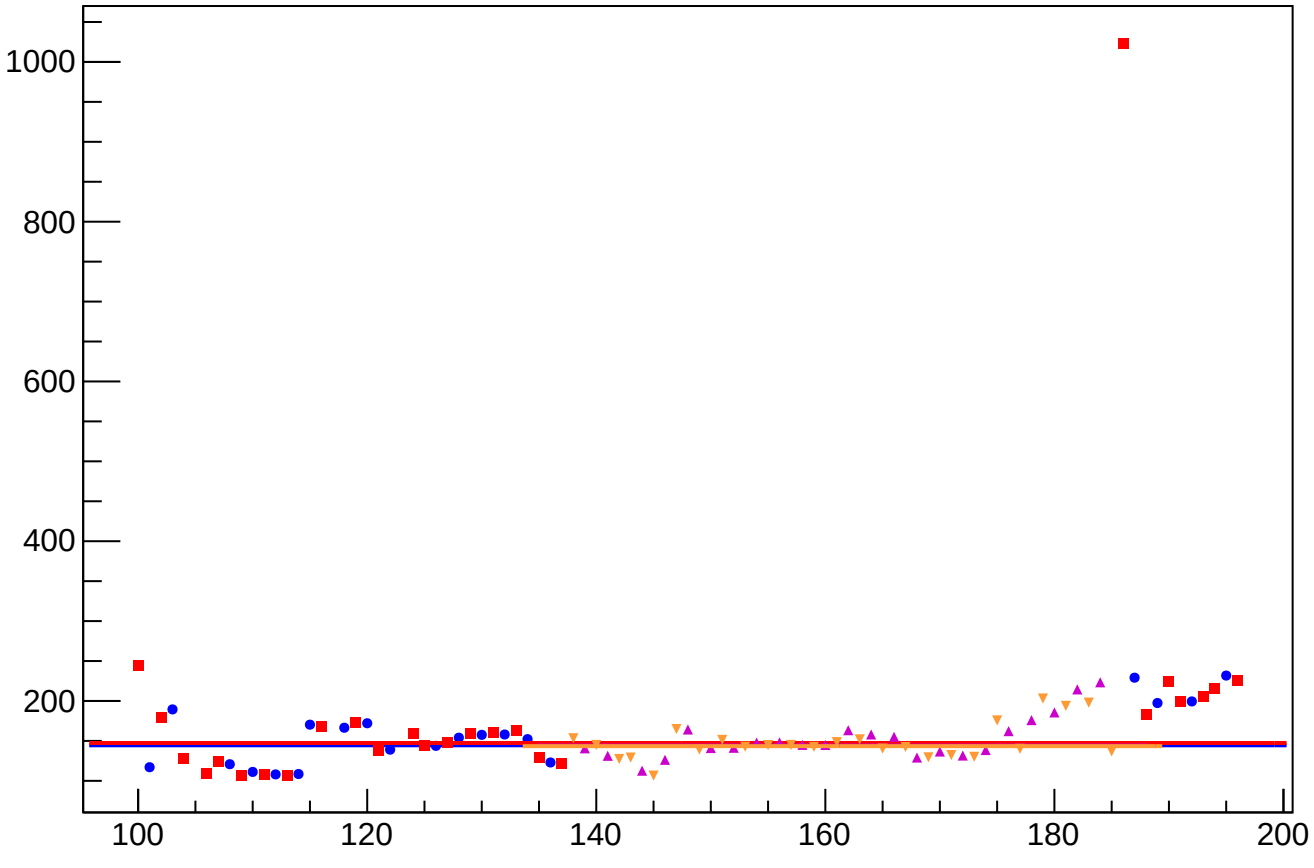
Left: 76.266+/-23.739 $\chi^2$/NDF: 60.5/47

Right: -30.218+/-32.674 $\chi^2$/NDF: 43.0/45

In: 12.590+/-27.754 $\chi^2$/NDF:50.4/42

Out: 64.180+/-26.604 $\chi^2$/NDF:58.2/50

All: 39.476+/-19.205 $\chi^2$/NDF: 110.4/93




Right In: 144.517+/-0.034 $\chi^2$/NDF: 1003760.9/19

Left Out: 143.444+/-0.023 $\chi^2$/NDF:747040.9/24

Right Out: 147.385+/-0.032 $\chi^2$/NDF: 1931028.9/25

Left In: 144.170+/-0.024 $\chi^2$/NDF:702713.8/22

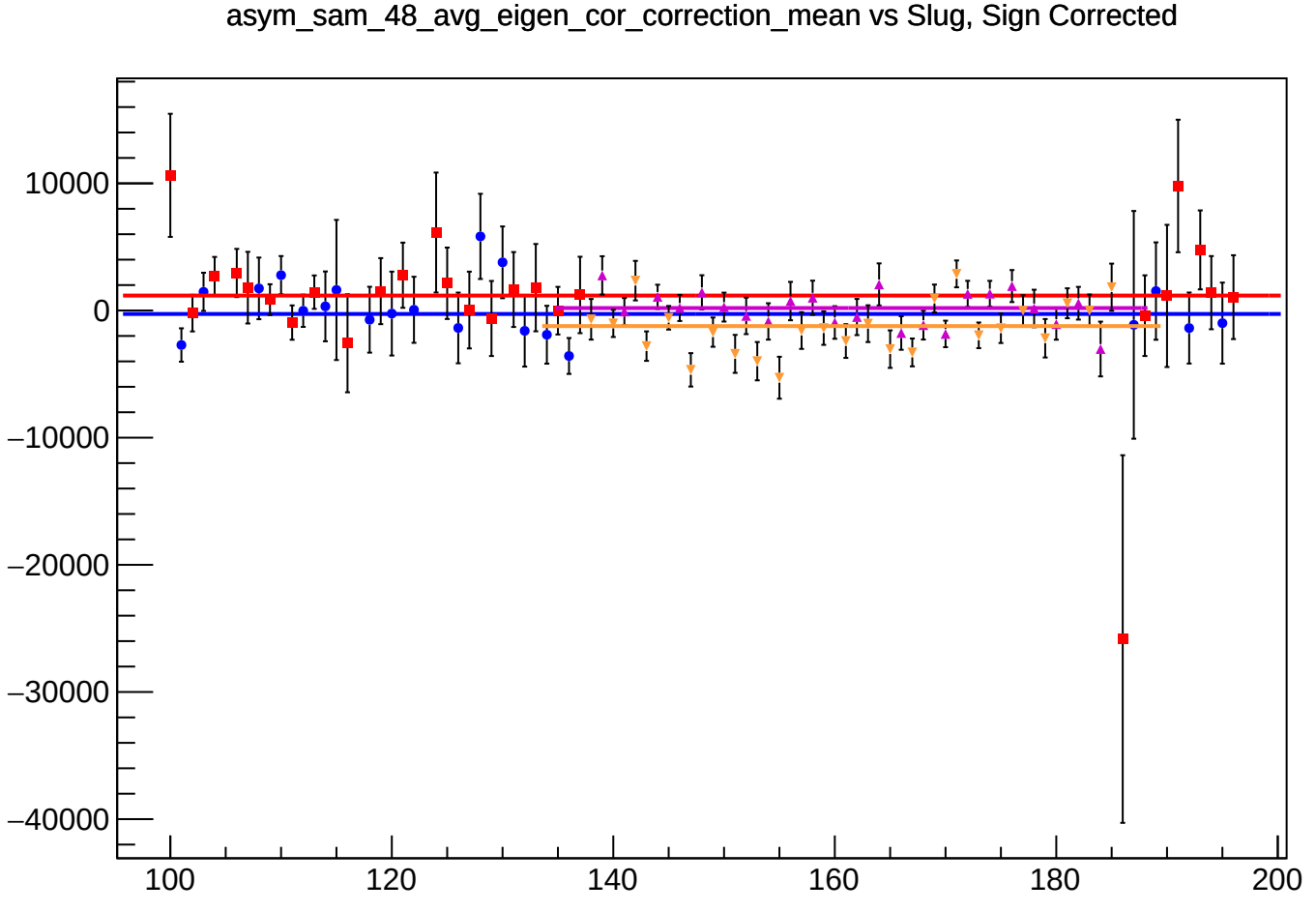
Left: 143.795+/-0.017 $\chi^2$/NDF: 1450223.1/47

Right: 146.038+/-0.023 $\chi^2$/NDF: 2938627.4/45

In: 144.288+/-0.020 $\chi^2$/NDF:1706544.6/42

Out: 144.829+/-0.019 $\chi^2$/NDF:2688075.9/50

All: 144.570+/-0.014 $\chi^2$/NDF: 4395016.2/93




Right In: -271.745+/-483.102 $\chi^2$/NDF: 22.0/19

Left Out: -1225.031+/-251.767 $\chi^2$/NDF:59.3/24

Right Out: 1176.201+/-445.900 $\chi^2$/NDF: 20.7/25

Left In: 193.808+/-258.922 $\chi^2$/NDF:23.3/22

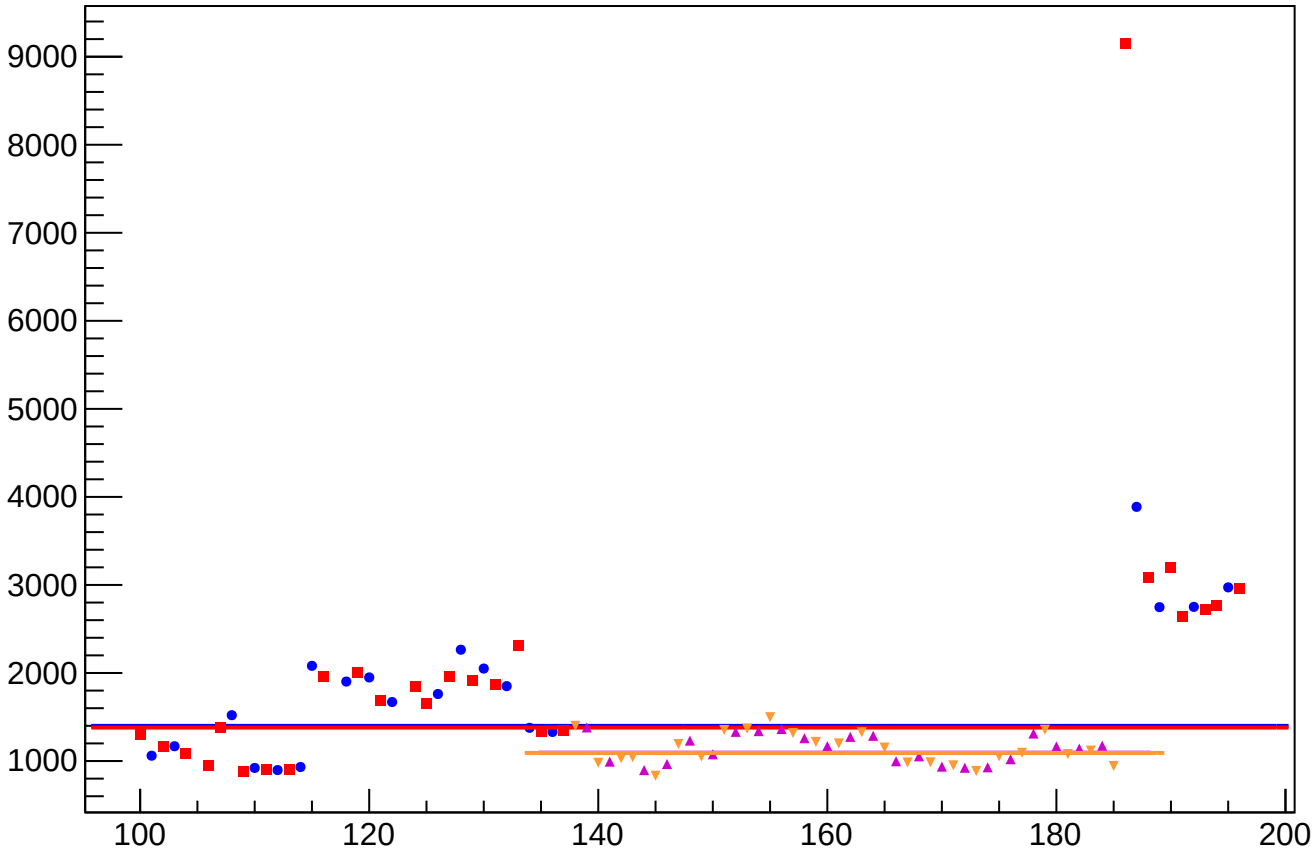
Left: -535.485+/-180.503 $\chi^2$/NDF: 98.0/47

Right: 510.118+/-327.663 $\chi^2$/NDF: 47.5/45

In: 89.920+/-228.211 $\chi^2$/NDF:46.1/42

Out: -644.565+/-219.235 $\chi^2$/NDF:101.9/50

All: -292.052+/-158.101 $\chi^2$/NDF: 153.3/93




Right In: 1399.106+/-0.342 $\chi^2$/NDF: 2630830.9/19

Left Out: 1091.979+/-0.178 $\chi^2$/NDF:892441.9/24

Right Out: 1380.154+/-0.315 $\chi^2$/NDF: 4431873.2/25

Left In: 1094.479+/-0.183 $\chi^2$/NDF:732975.7/22

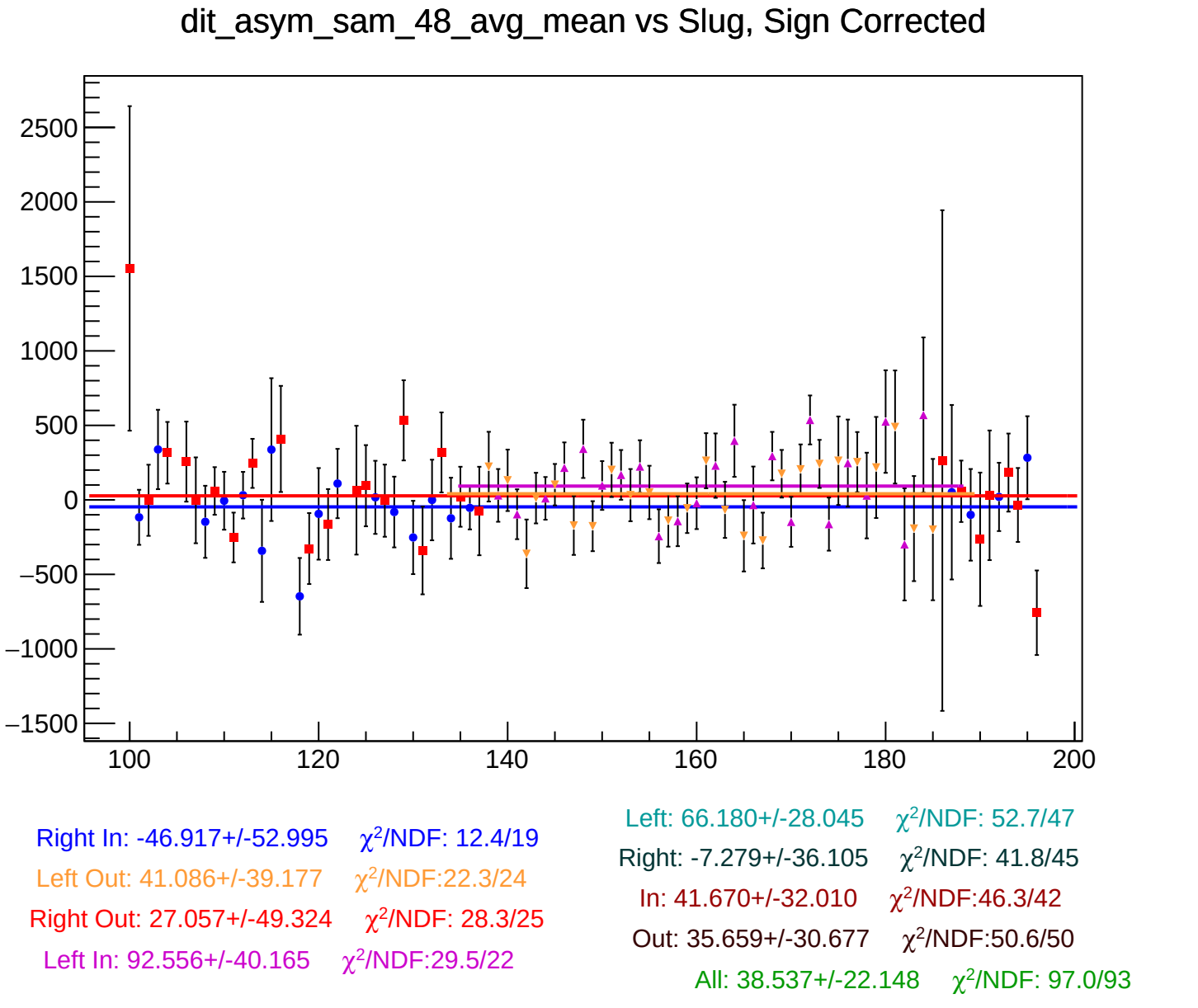
Left: 1093.194+/-0.128 $\chi^2$/NDF: 1625513.3/47

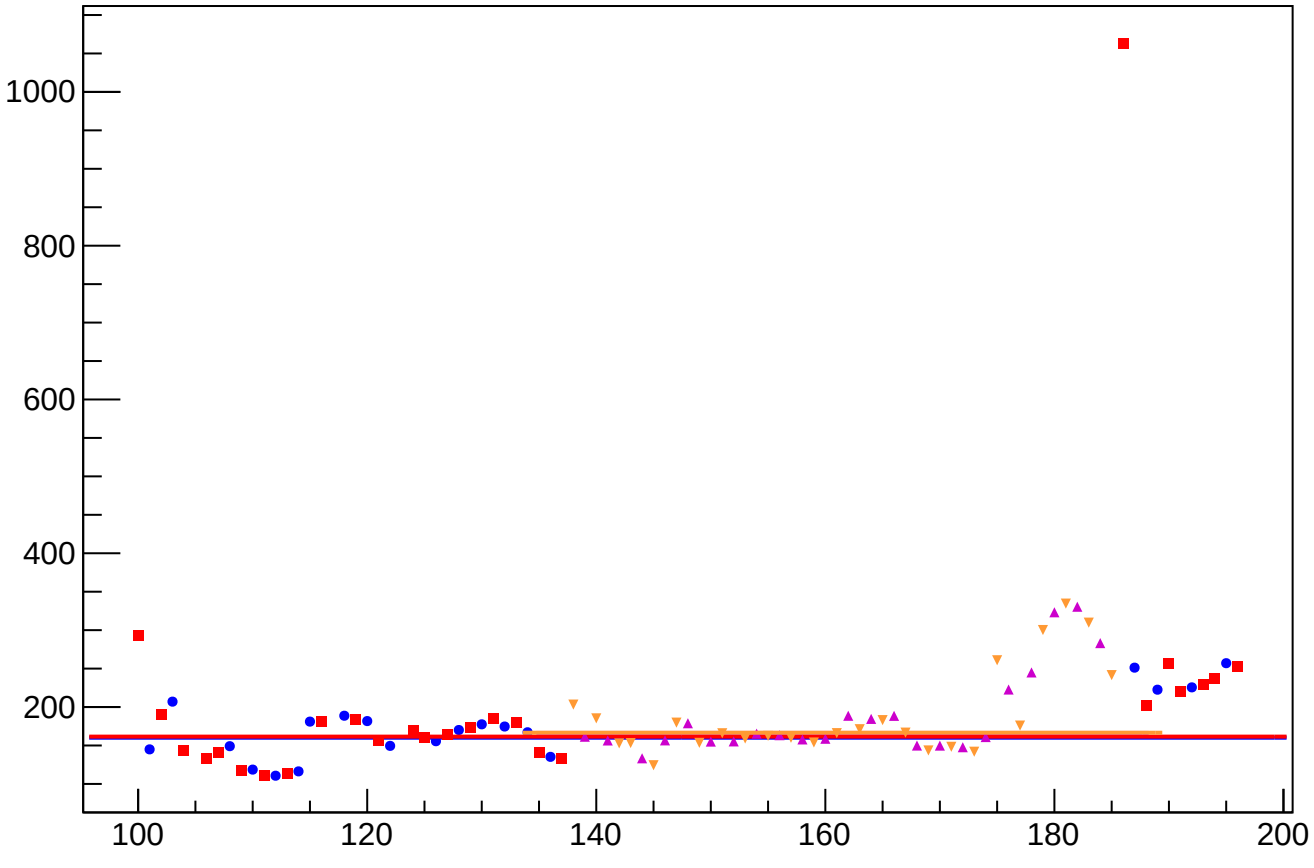
Right: 1388.872+/-0.232 $\chi^2$/NDF: 7064366.1/45

In: 1162.456+/-0.161 $\chi^2$/NDF:3981576.8/42

Out: 1161.642+/-0.155 $\chi^2$/NDF:5957725.0/50

All: 1162.033+/-0.112 $\chi^2$/NDF: 9939315.1/93


dit_asym_sam_48_avg_mean vs Slug, Sign Corrected
2500
2000
1500
1000
500
0
−500
−1000
−1500
100
120
140
160
180
200
Right In: -46.917+/-52.995 χ²/NDF: 12.4/19
Left Out: 41.086+/-39.177 χ²/NDF:22.3/24
Right Out: 27.057+/-49.324 χ²/NDF: 28.3/25
Left In: 92.556+/-40.165 χ²/NDF:29.5/22
Left: 66.180+/-28.045 χ²/NDF: 52.7/47
Right: -7.279+/-36.105 χ²/NDF: 41.8/45
In: 41.670+/-32.010 χ²/NDF:46.3/42
Out: 35.659+/-30.677 χ²/NDF:50.6/50
All: 38.537+/-22.148 χ²/NDF: 97.0/93




Right In: 160.132+/-0.037 $\chi^2$/NDF: 1061794.6/19

Left Out: 166.599+/-0.028 $\chi^2$/NDF:1719835.6/24

Right Out: 161.528+/-0.035 $\chi^2$/NDF: 2000325.4/25

Left In: 166.308+/-0.028 $\chi^2$/NDF:1392466.3/22

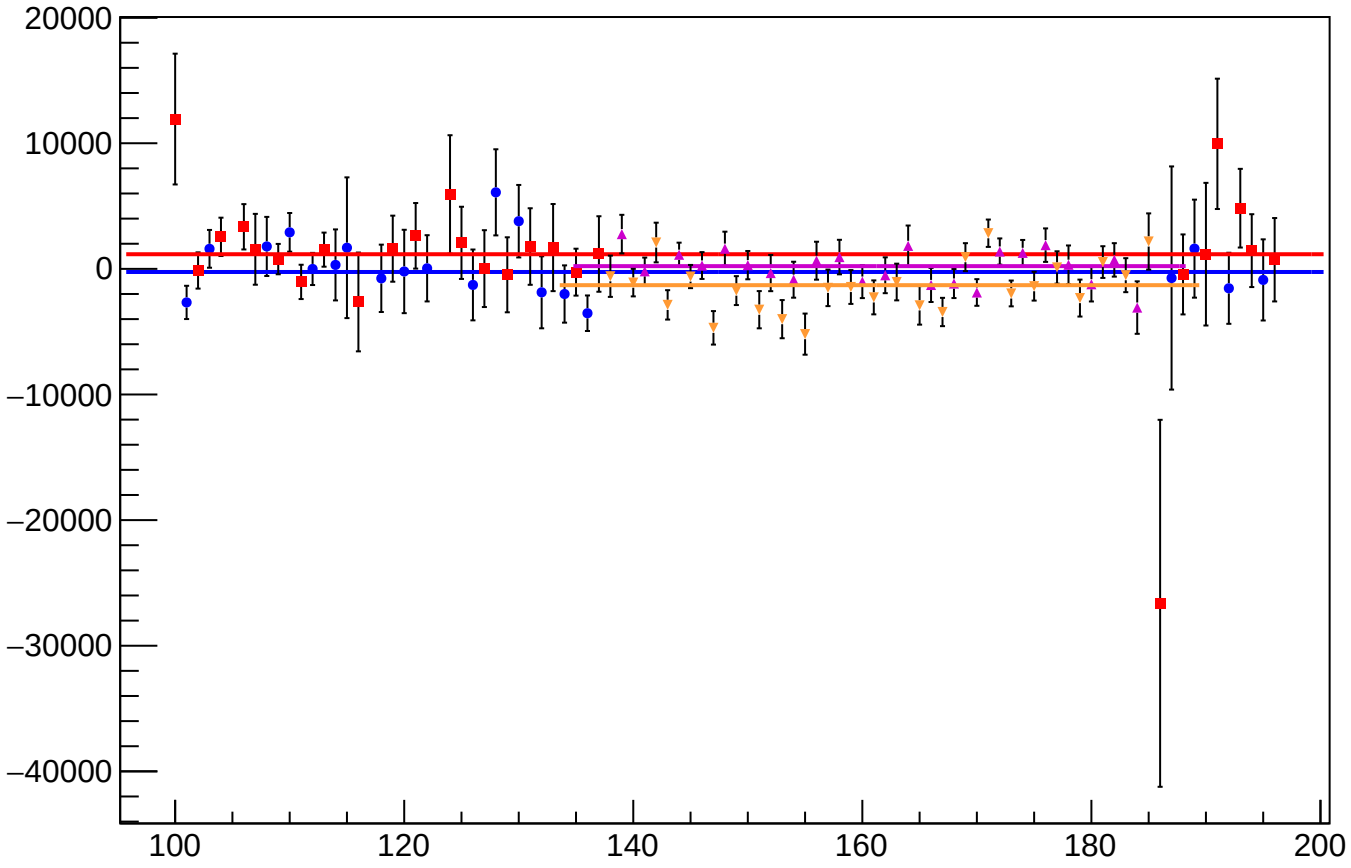
Left: 166.457+/-0.020 $\chi^2$/NDF: 3112355.5/47

Right: 160.880+/-0.026 $\chi^2$/NDF: 3062863.4/45

In: 164.055+/-0.023 $\chi^2$/NDF:2471514.3/42

Out: 164.637+/-0.022 $\chi^2$/NDF:3733122.8/50

All: 164.358+/-0.016 $\chi^2$/NDF: 6204982.0/93




Right In: -248.575+/-487.844 $\chi^2$/NDF: 22.3/19

Left Out: -1298.333+/-256.961 $\chi^2$/NDF:55.1/24

Right Out: 1165.100+/-449.181 $\chi^2$/NDF: 21.8/25

Left In: 217.285+/-264.388 $\chi^2$/NDF:22.2/22

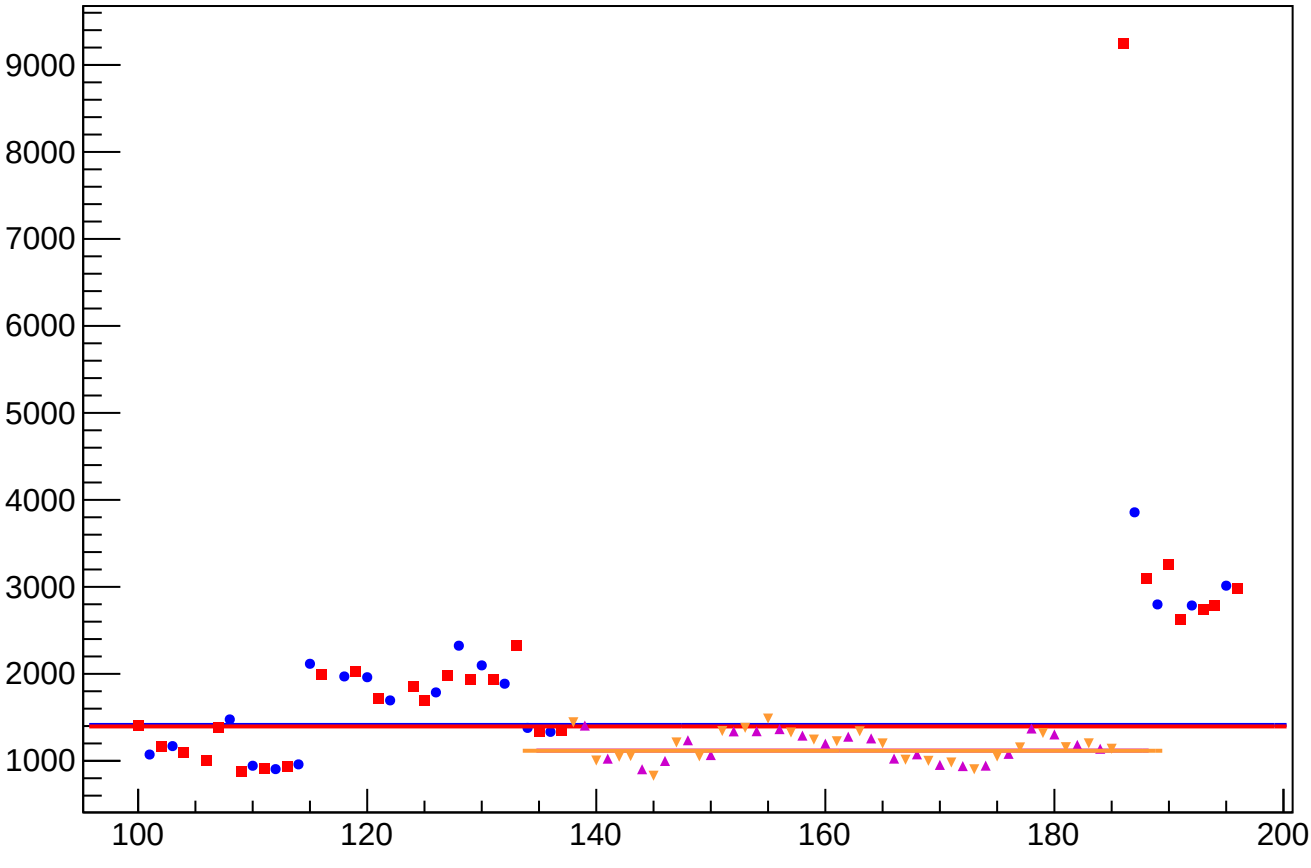
Left: -562.110+/-184.269 $\chi^2$/NDF: 94.2/47

Right: 516.494+/-330.443 $\chi^2$/NDF: 48.7/45

In: 111.520+/-232.446 $\chi^2$/NDF:45.3/42

Out: -690.929+/-223.044 $\chi^2$/NDF:99.5/50

All: -306.263+/-160.937 $\chi^2$/NDF: 151.0/93




Right In: 1412.854+/-0.345 $\chi^2$/NDF: 2650807.5/19

Left Out: 1116.034+/-0.182 $\chi^2$/NDF:867489.3/24

Right Out: 1395.447+/-0.318 $\chi^2$/NDF: 4421964.8/25

Left In: 1117.831+/-0.187 $\chi^2$/NDF:729387.1/22

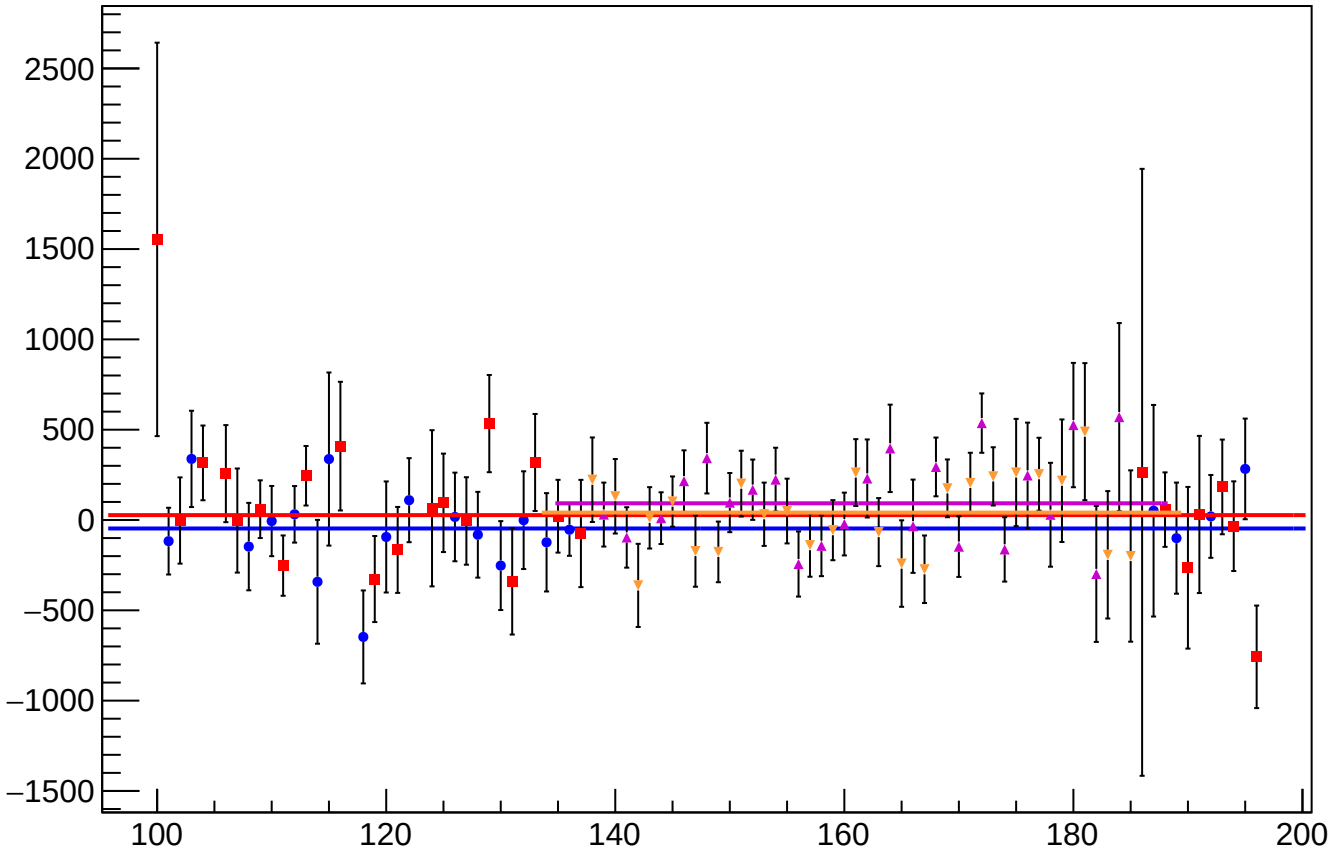
Left: 1116.907+/-0.130 $\chi^2$/NDF: 1596924.0/47

Right: 1403.434+/-0.234 $\chi^2$/NDF: 7074150.4/45

In: 1184.810+/-0.164 $\chi^2$/NDF:3945576.5/42

Out: 1184.928+/-0.158 $\chi^2$/NDF:5872533.1/50

All: 1184.872+/-0.114 $\chi^2$/NDF: 9818109.8/93




Right In: -46.914+/-52.995 $\chi^2$/NDF: 12.4/19

Left Out: 41.088+/-39.177 $\chi^2$/NDF:22.3/24

Right Out: 27.057+/-49.324 $\chi^2$/NDF: 28.3/25

Left In: 92.556+/-40.165 $\chi^2$/NDF:29.5/22

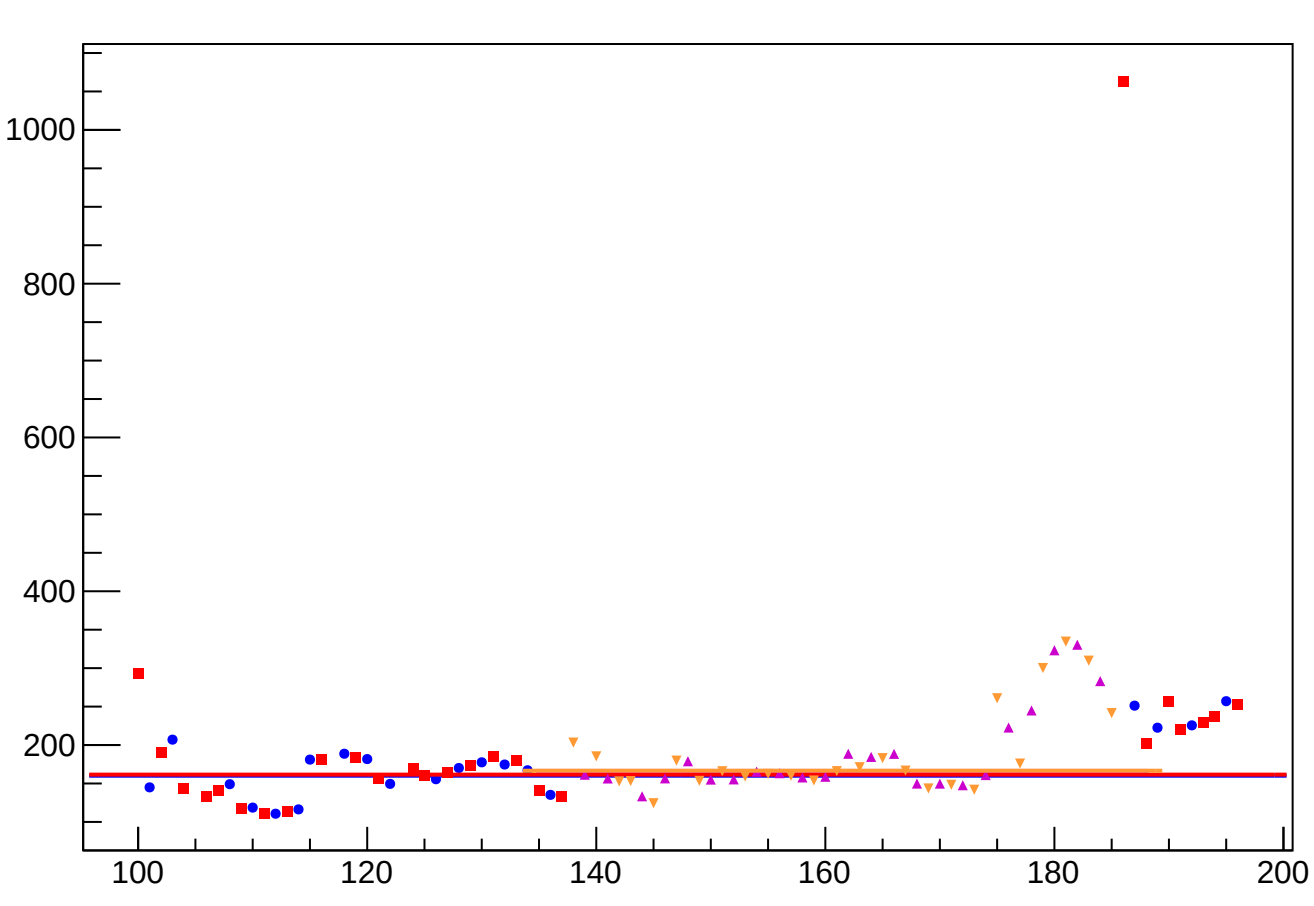
Left: 66.181+/-28.045 $\chi^2$/NDF: 52.7/47

Right: -7.278+/-36.105 $\chi^2$/NDF: 41.8/45

In: 41.671+/-32.010 $\chi^2$/NDF:46.3/42

Out: 35.660+/-30.677 $\chi^2$/NDF:50.6/50

All: 38.538+/-22.148 $\chi^2$/NDF: 97.0/93




Right In: 160.132+/-0.037 $\chi^2$/NDF: 1061790.8/19

Left Out: 166.599+/-0.028 $\chi^2$/NDF:1719829.4/24

Right Out: 161.528+/-0.035 $\chi^2$/NDF: 2000326.0/25

Left In: 166.308+/-0.028 $\chi^2$/NDF:1392446.1/22

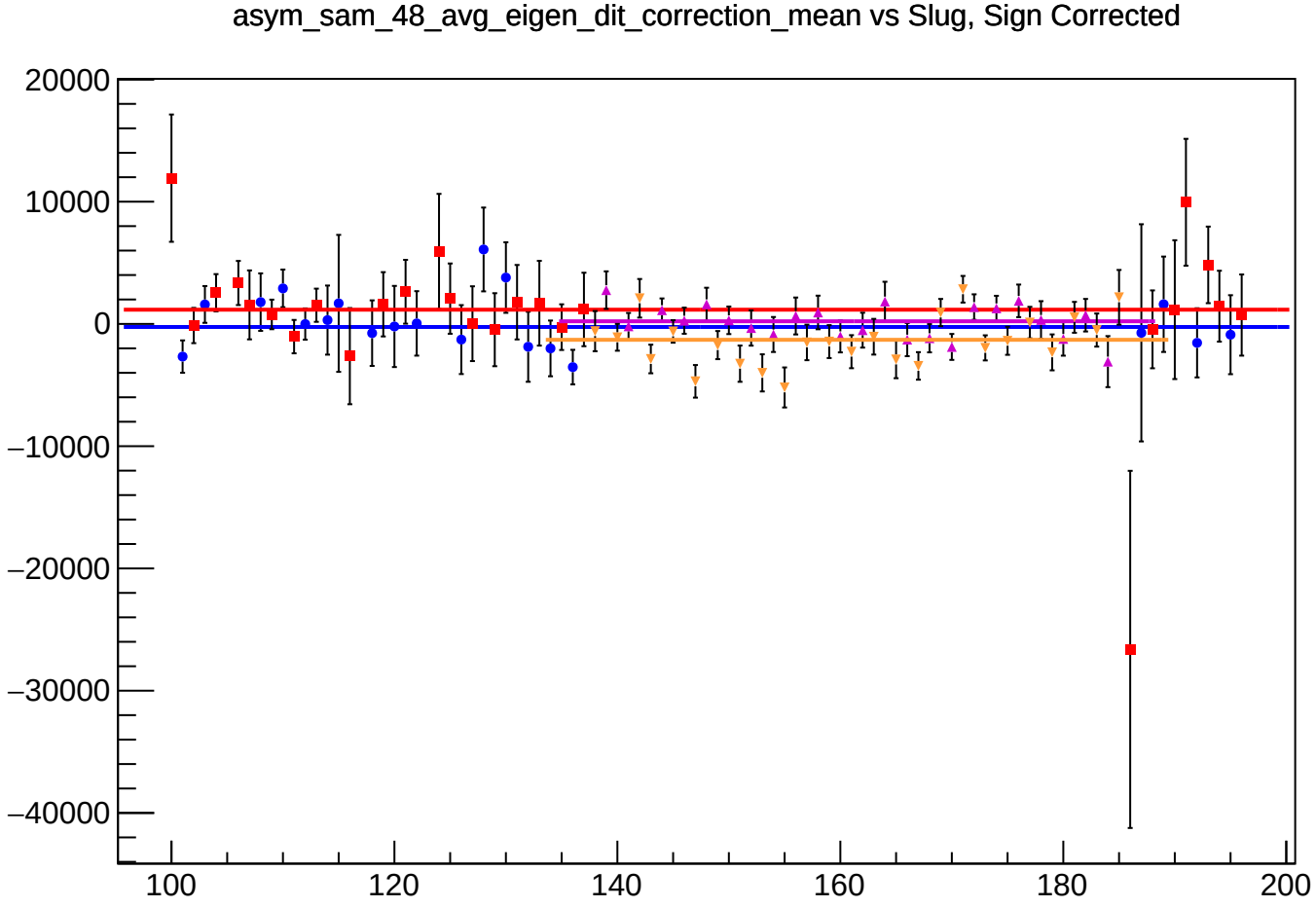
Left: 166.457+/-0.020 $\chi^2$/NDF: 3112329.1/47

Right: 160.880+/-0.026 $\chi^2$/NDF: 3062860.0/45

In: 164.055+/-0.023 $\chi^2$/NDF:2471491.9/42

Out: 164.637+/-0.022 $\chi^2$/NDF:3733118.8/50

All: 164.358+/-0.016 $\chi^2$/NDF: 6204955.5/93




Right In: -248.574+/-487.843 $\chi^2$/NDF: 22.3/19

Left Out: -1298.330+/-256.961 $\chi^2$/NDF:55.1/24

Right Out: 1165.099+/-449.180 $\chi^2$/NDF: 21.8/25

Left In: 217.283+/-264.388 $\chi^2$/NDF:22.2/22

Left: -562.109+/-184.268 $\chi^2$/NDF: 94.2/47

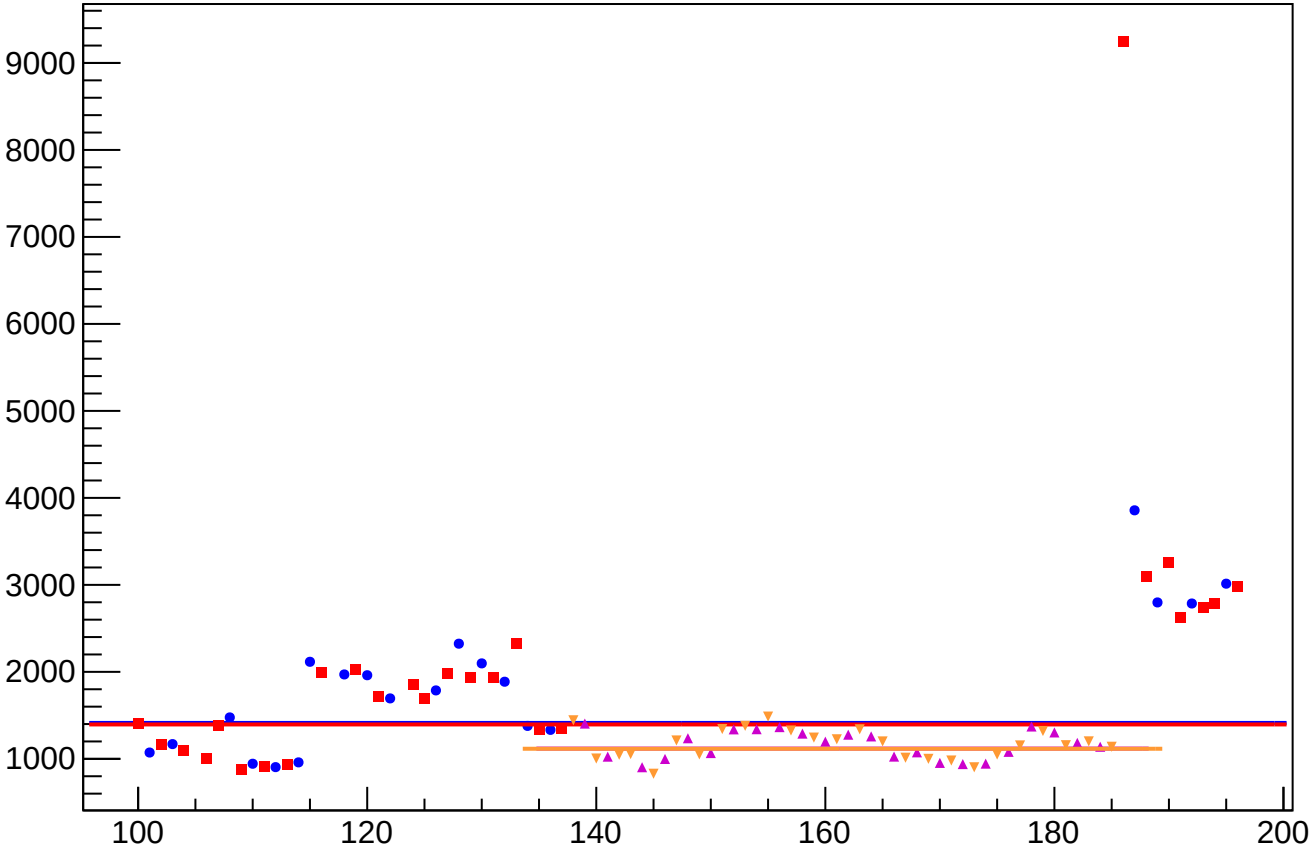
Right: 516.493+/-330.443 $\chi^2$/NDF: 48.7/45

In: 111.520+/-232.446 $\chi^2$/NDF:45.3/42

Out: -690.928+/-223.043 $\chi^2$/NDF:99.5/50

All: -306.262+/-160.937 $\chi^2$/NDF: 151.0/93

asym_sam_48_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1412.852+/-0.345 $\chi^2$/NDF: 2650810.7/19

Left Out: 1116.032+/-0.182 $\chi^2$/NDF:867491.2/24

Right Out: 1395.446+/-0.318 $\chi^2$/NDF: 4421964.0/25

Left In: 1117.829+/-0.187 $\chi^2$/NDF:729386.0/22

Left: 1116.905+/-0.130 $\chi^2$/NDF: 1596924.8/47

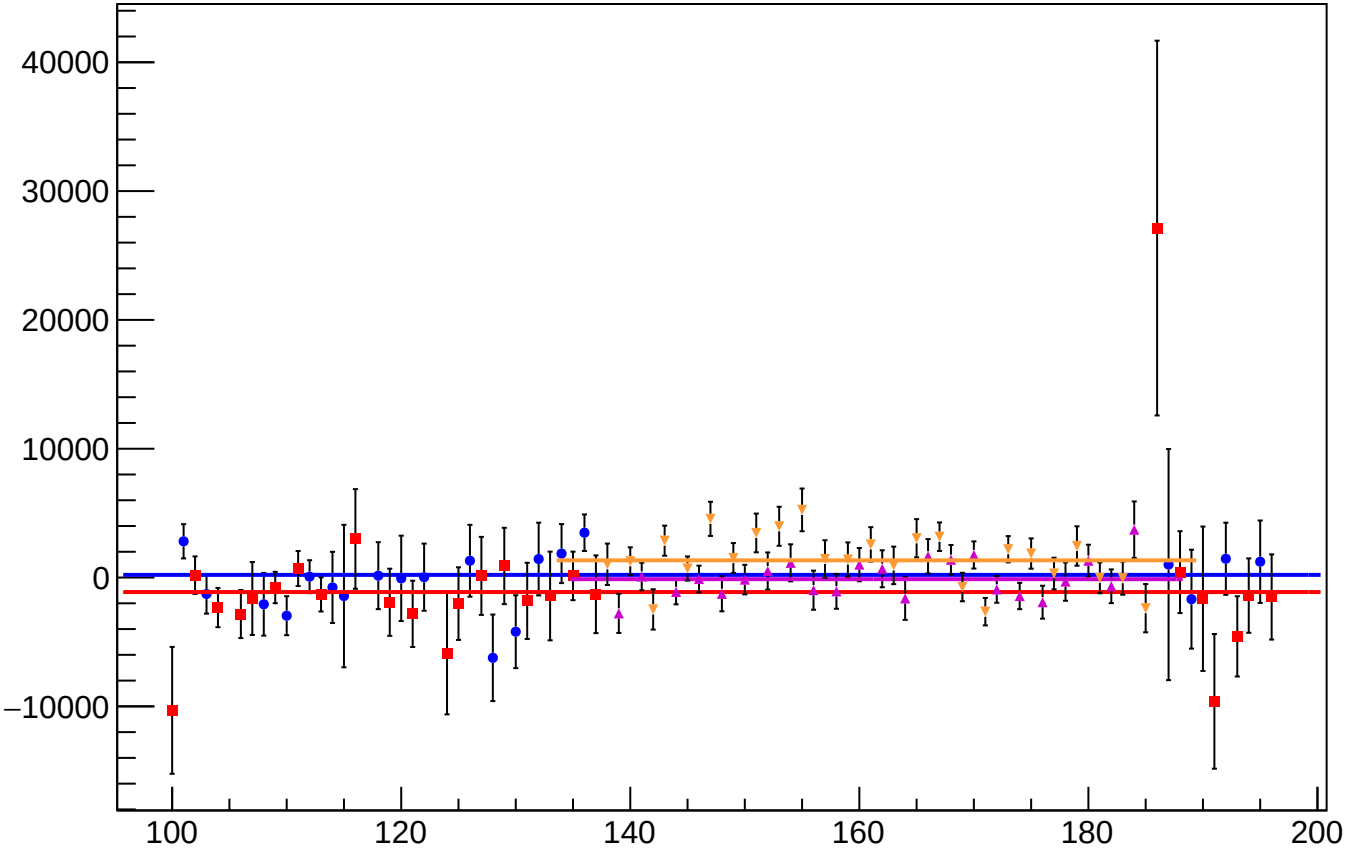
Right: 1403.432+/-0.234 $\chi^2$/NDF: 7074152.6/45

In: 1184.809+/-0.164 $\chi^2$/NDF:3945581.3/42

Out: 1184.926+/-0.158 $\chi^2$/NDF:5872537.7/50

All: 1184.870+/-0.114 $\chi^2$/NDF: 9818119.2/93

# asym_sam_48_avg_mean vs Slug, Sign Corrected




Right In: 207.145+/-486.526 $\chi^2$/NDF: 23.1/19

Left Out: 1334.704+/-254.187 $\chi^2$/NDF:55.7/24

Right Out: -1126.826+/-448.327 $\chi^2$/NDF: 19.5/25

Left In: -128.368+/-261.415 $\chi^2$/NDF:24.0/22

Left: 623.675+/-182.239 $\chi^2$/NDF: 95.8/47

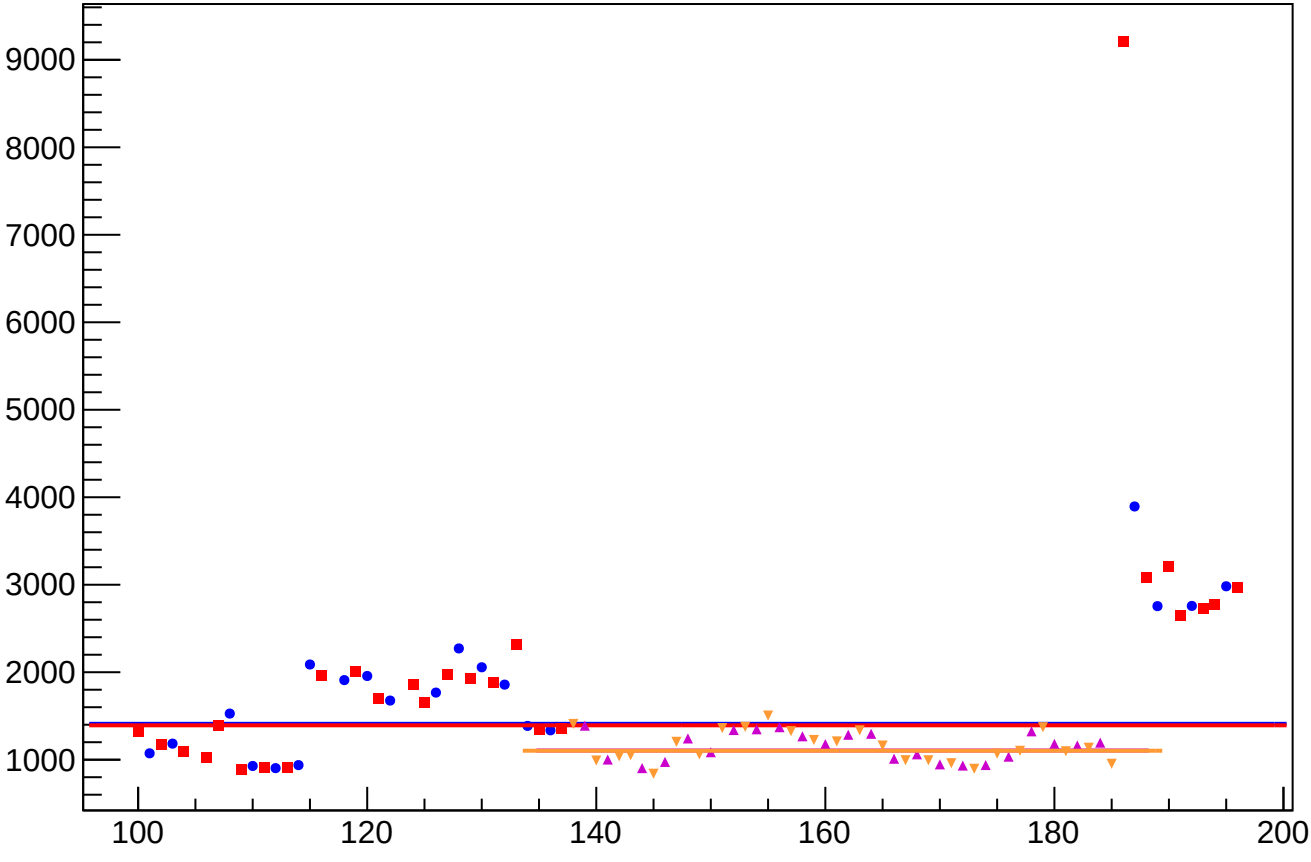
Right: -514.257+/-329.694 $\chi^2$/NDF: 46.7/45

In: -53.204+/-230.279 $\chi^2$/NDF:47.5/42

Out: 735.920+/-221.120 $\chi^2$/NDF:98.0/50

All: 357.364+/-159.495 $\chi^2$/NDF: 151.6/93

# asym_sam_48_avg_rms vs Slug, Sign Corrected




Right In: 1410.219+/-0.344 $\chi^2$/NDF: 2601858.0/19

Left Out: 1102.700+/-0.180 $\chi^2$/NDF:880468.6/24

Right Out: 1393.194+/-0.317 $\chi^2$/NDF: 4374077.3/25

Left In: 1105.200+/-0.185 $\chi^2$/NDF:723304.5/22

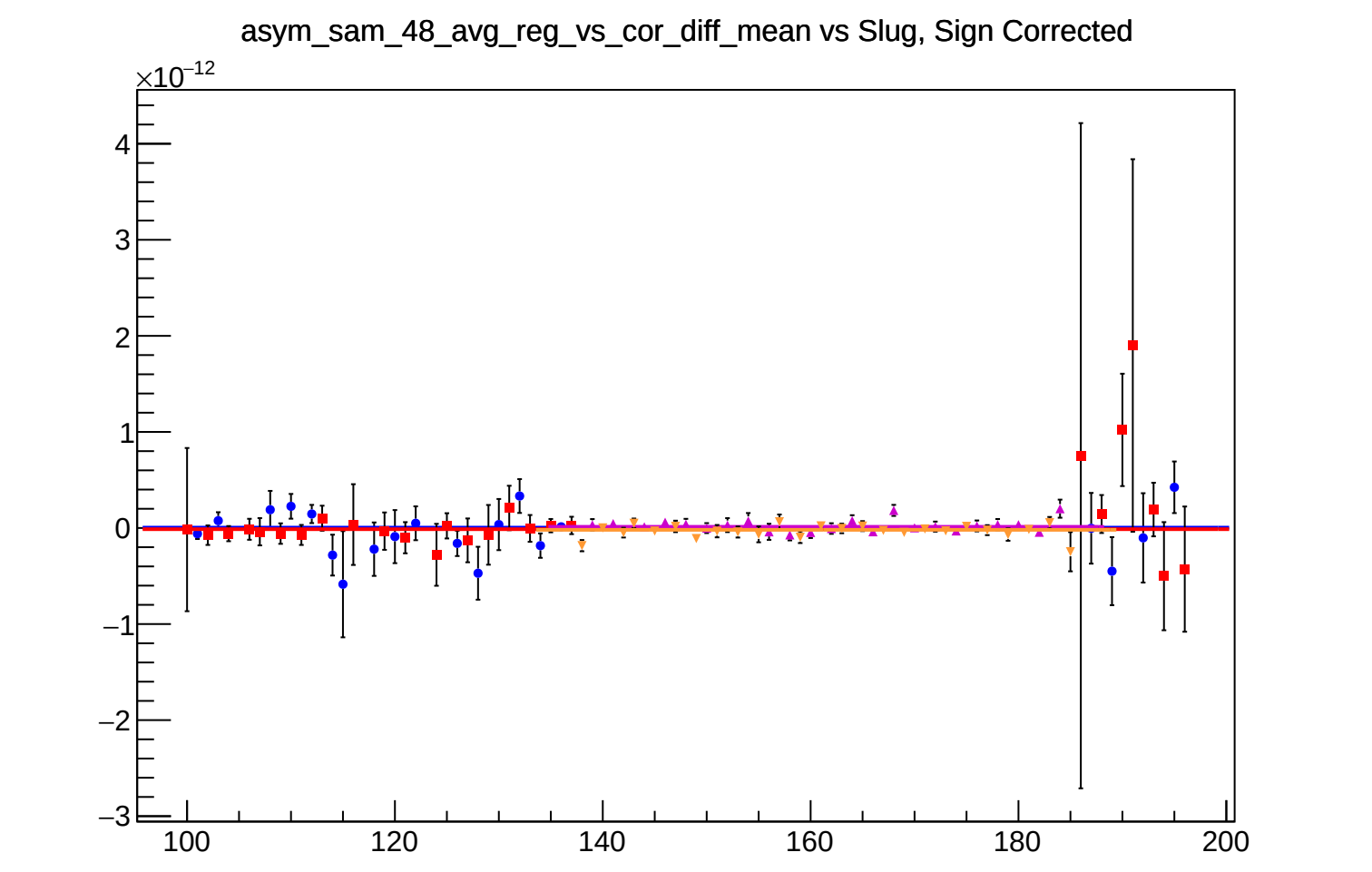
Left: 1103.915+/-0.129 $\chi^2$/NDF: 1603867.1/47

Right: 1401.012+/-0.233 $\chi^2$/NDF: 6977259.9/45

In: 1173.532+/-0.163 $\chi^2$/NDF:3935149.5/42

Out: 1173.365+/-0.156 $\chi^2$/NDF:5889965.7/50

All: 1173.445+/-0.113 $\chi^2$/NDF: 9825115.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.3/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 11.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:27.1/22

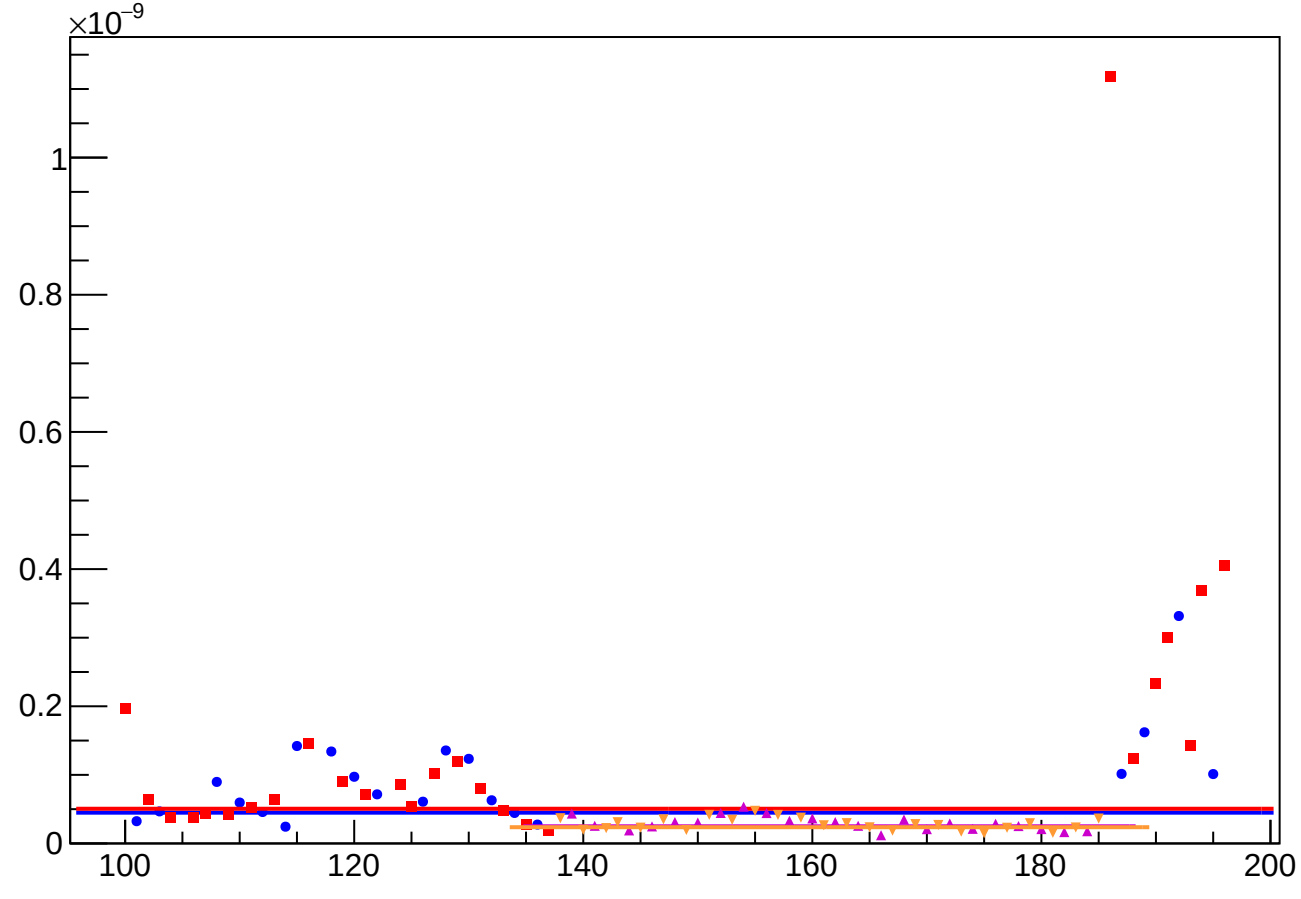
Left: -0.000+/-0.000 $\chi^2$/NDF: 58.8/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 37.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:53.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:37.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 96.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2472697.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1433511.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3305071.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1544727.7/22

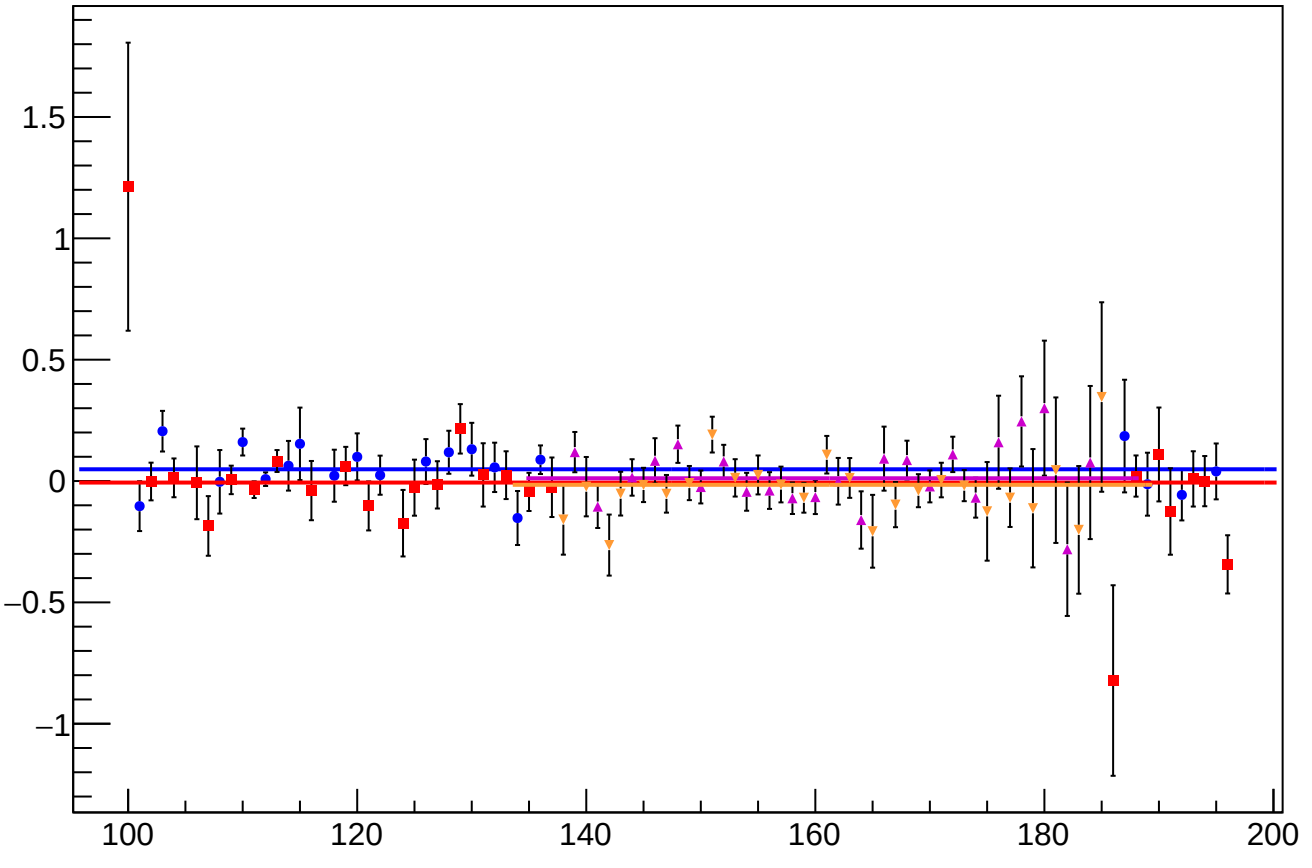
Left: 0.000+/-0.000 $\chi^2$/NDF: 2998078.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 5821194.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:4996719.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6374105.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 11392209.3/93




Right In: 0.048+/-0.017 $\chi^2$/NDF: 19.6/19

Left Out: -0.016+/-0.018 $\chi^2$/NDF:21.6/24

Right Out: -0.006+/-0.017 $\chi^2$/NDF: 32.6/25

Left In: 0.011+/-0.018 $\chi^2$/NDF:23.3/22

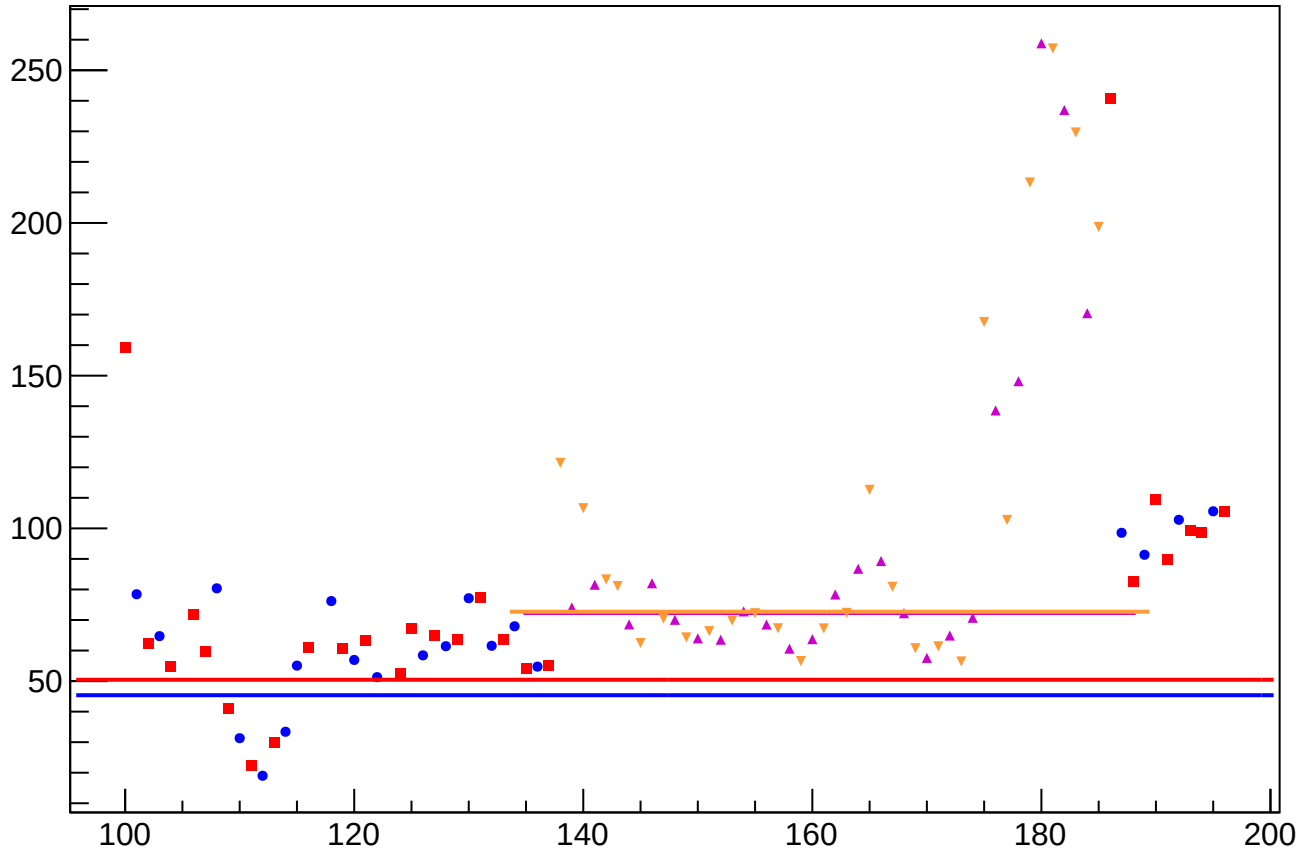
Left: -0.002+/-0.013 $\chi^2$/NDF: 46.1/47

Right: 0.020+/-0.012 $\chi^2$/NDF: 57.4/45

In: 0.031+/-0.012 $\chi^2$/NDF:45.1/42

Out: -0.011+/-0.012 $\chi^2$/NDF:54.3/50

All: 0.010+/-0.009 $\chi^2$/NDF: 105.1/93




Right In: 45.372+/-0.012 $\chi^2$/NDF: 4540354.7/19

Left Out: 72.715+/-0.013 $\chi^2$/NDF:3961158.6/24

Right Out: 50.439+/-0.012 $\chi^2$/NDF: 4586905.9/25

Left In: 72.298+/-0.013 $\chi^2$/NDF:2790214.3/22

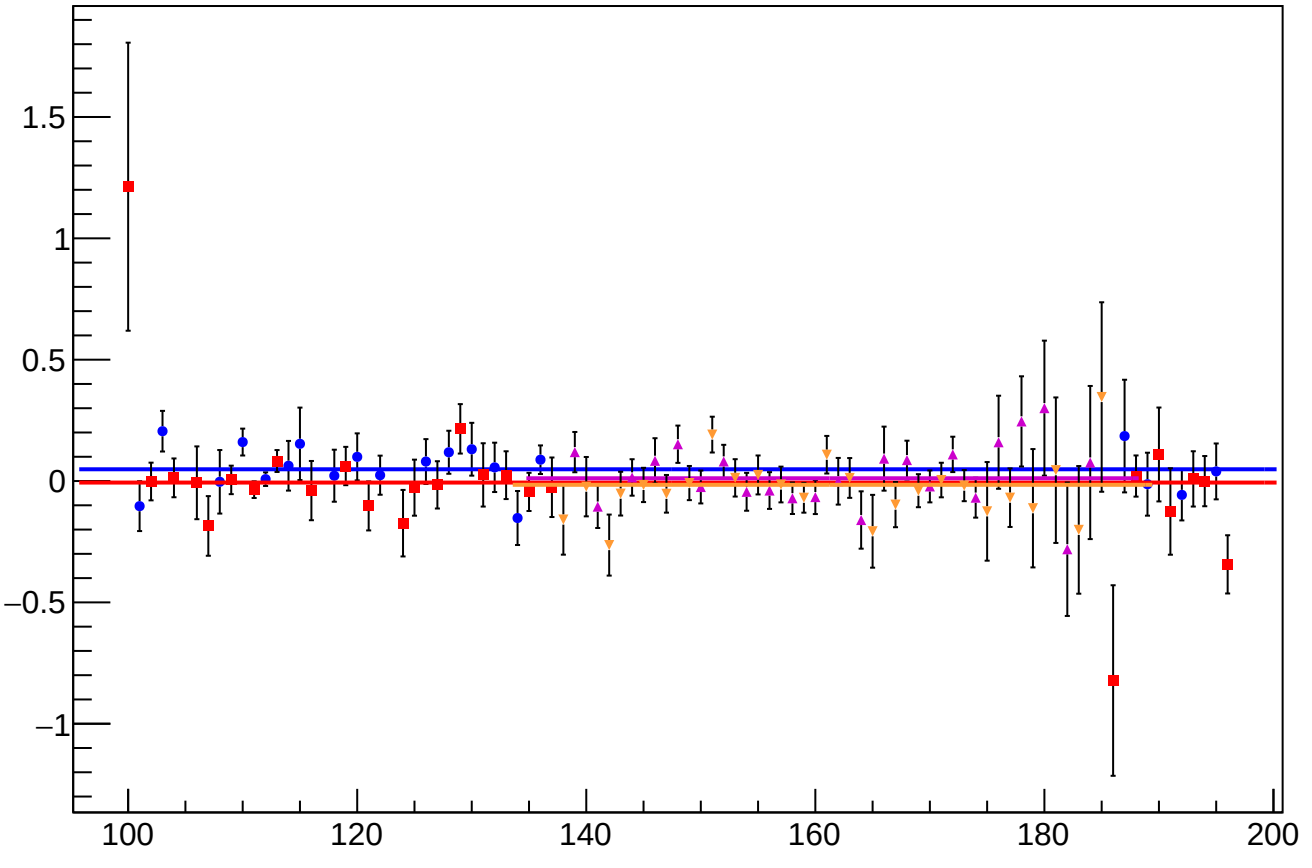
Left: 72.510+/-0.009 $\chi^2$/NDF: 6751905.2/47

Right: 47.958+/-0.008 $\chi^2$/NDF: 9216666.6/45

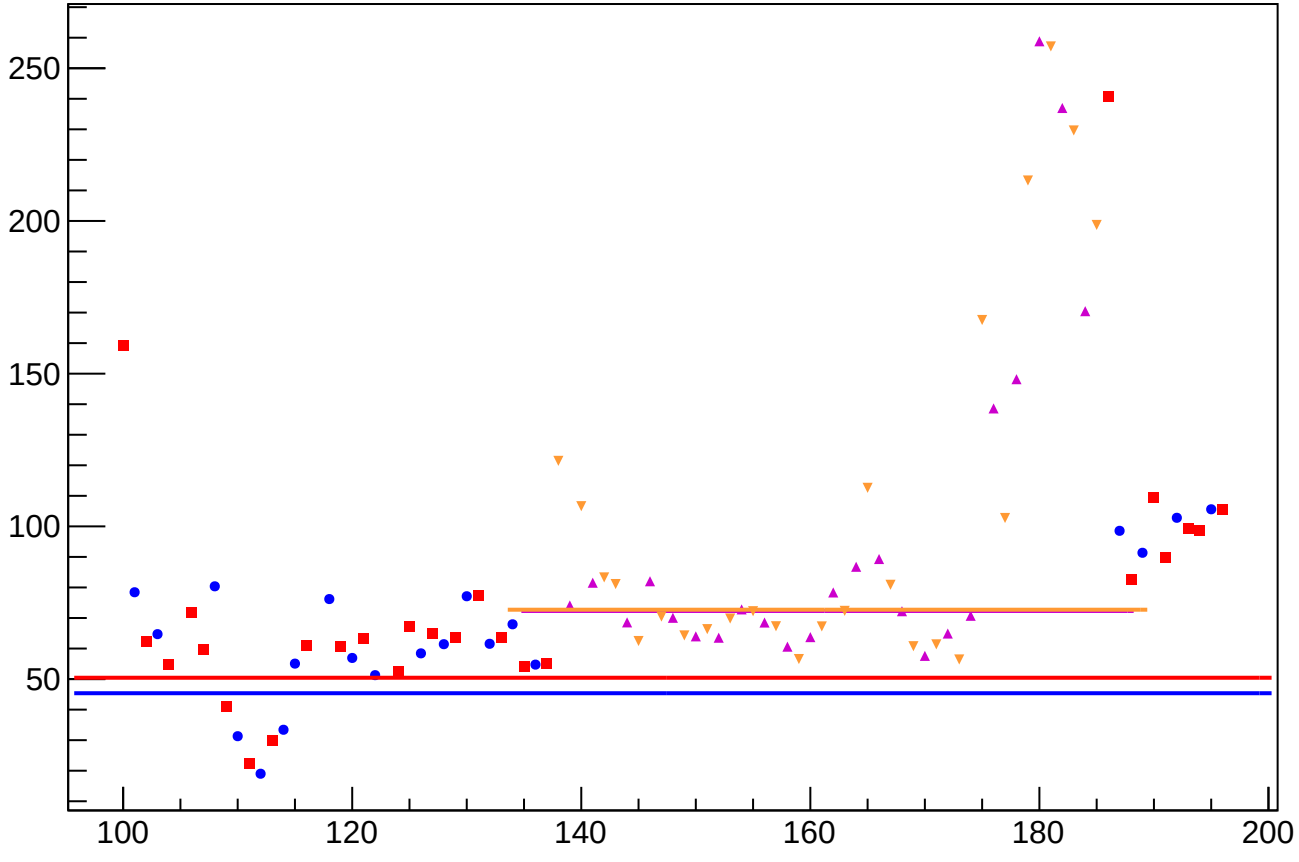
In: 57.975+/-0.009 $\chi^2$/NDF:9645097.3/42

Out: 60.815+/-0.009 $\chi^2$/NDF:10191414.5/50

All: 59.422+/-0.006 $\chi^2$/NDF: 19889178.4/93


asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
1.5
1
0.5
0
−0.5
−1
100
120
140
160
180
200
Right In: 0.048+/-0.017 χ²/NDF: 19.6/19
Left Out: -0.016+/-0.018 χ²/NDF:21.6/24
Right Out: -0.006+/-0.017 χ²/NDF: 32.6/25
Left In: 0.011+/-0.018 χ²/NDF:23.3/22
Left: -0.002+/-0.013 χ²/NDF: 46.1/47
Right: 0.020+/-0.012 χ²/NDF: 57.4/45
In: 0.031+/-0.012 χ²/NDF:45.1/42
Out: -0.011+/-0.012 χ²/NDF:54.3/50
All: 0.010+/-0.009 χ²/NDF: 105.1/93

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.372+/-0.012 $\chi^2$/NDF: 4540354.7/19

Left Out: 72.715+/-0.013 $\chi^2$/NDF:3961158.6/24

Right Out: 50.439+/-0.012 $\chi^2$/NDF: 4586905.9/25

Left In: 72.298+/-0.013 $\chi^2$/NDF:2790214.3/22

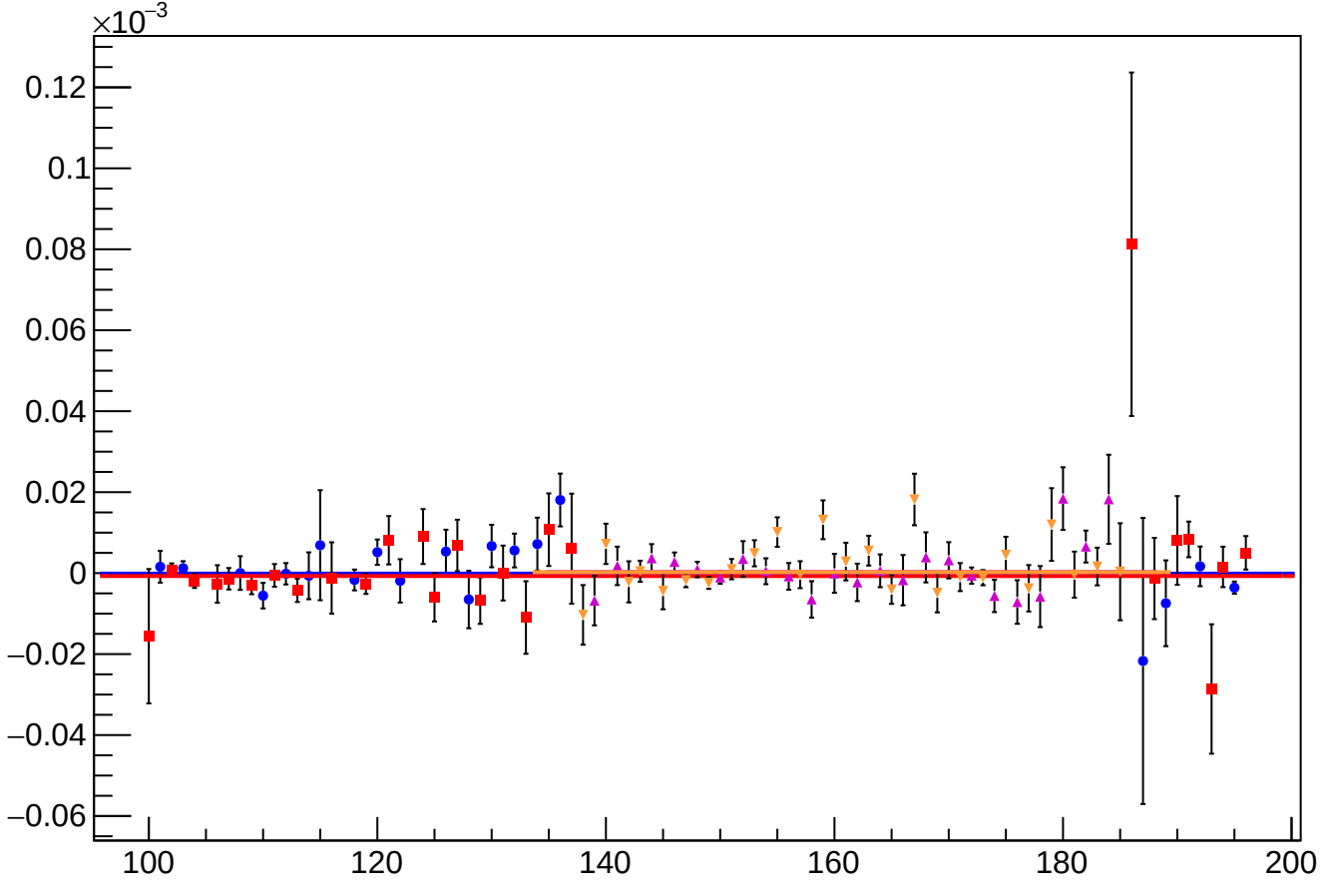
Left: 72.510+/-0.009 $\chi^2$/NDF: 6751905.2/47

Right: 47.958+/-0.008 $\chi^2$/NDF: 9216666.6/45

In: 57.975+/-0.009 $\chi^2$/NDF:9645097.3/42

Out: 60.815+/-0.009 $\chi^2$/NDF:10191414.5/50

All: 59.422+/-0.006 $\chi^2$/NDF: 19889178.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 28.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:24.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 67.4/47

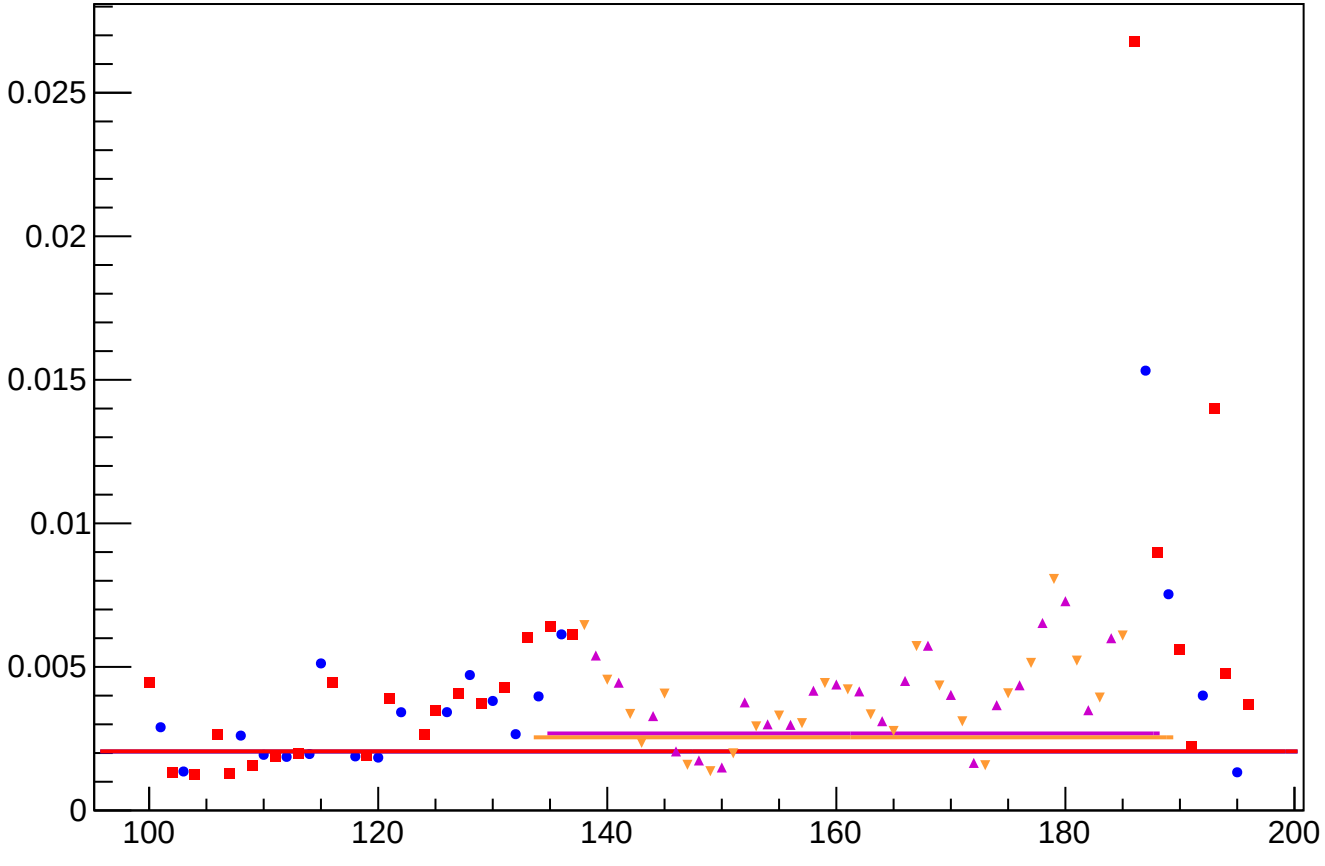
Right: -0.000+/-0.000 $\chi^2$/NDF: 58.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:52.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:74.5/50

All: -0.000+/-0.000 $\chi^2$/NDF: 126.8/93

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 3932396.4/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:7499900.9/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 7148284.9/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:6504235.2/22

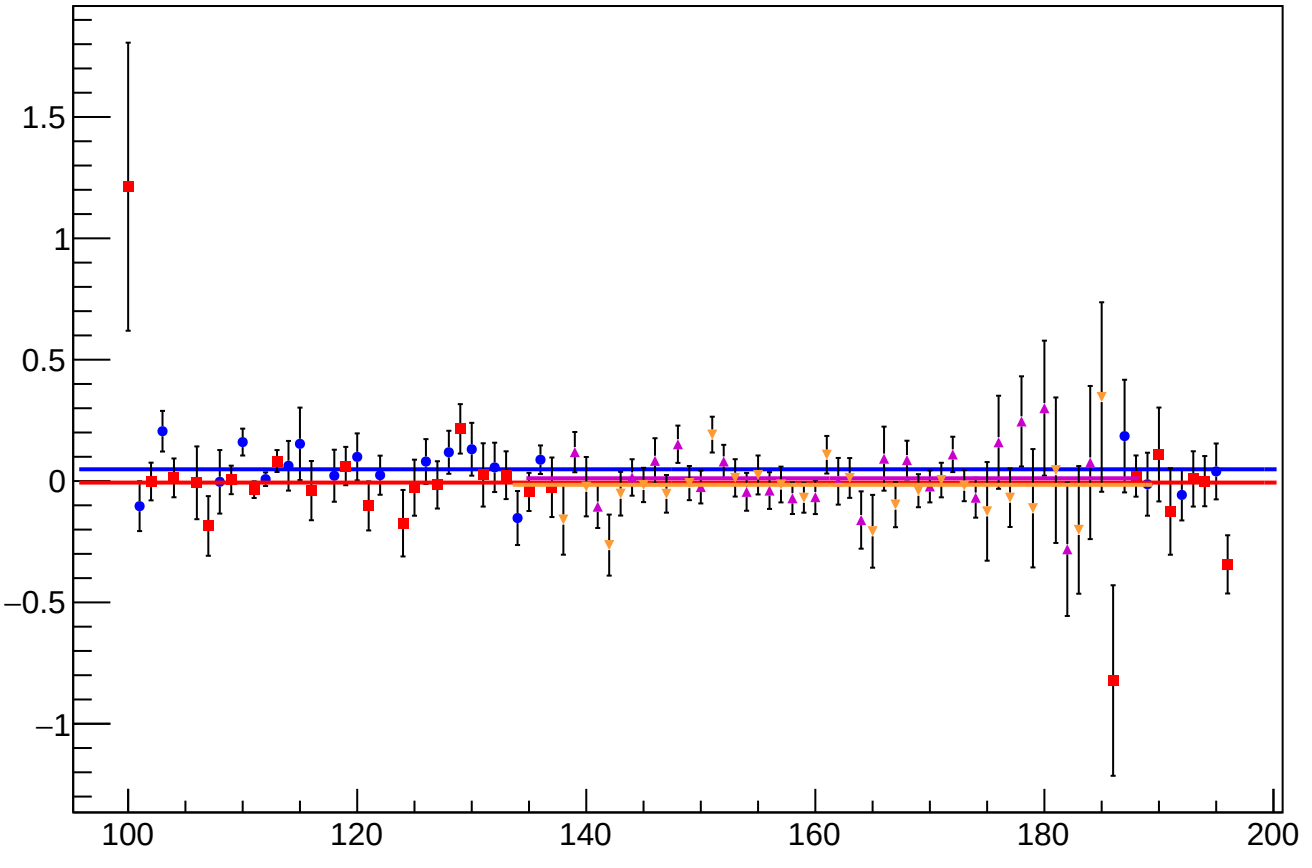
Left: 0.003+/-0.000 $\chi^2$/NDF: 14042947.3/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 11080772.1/45

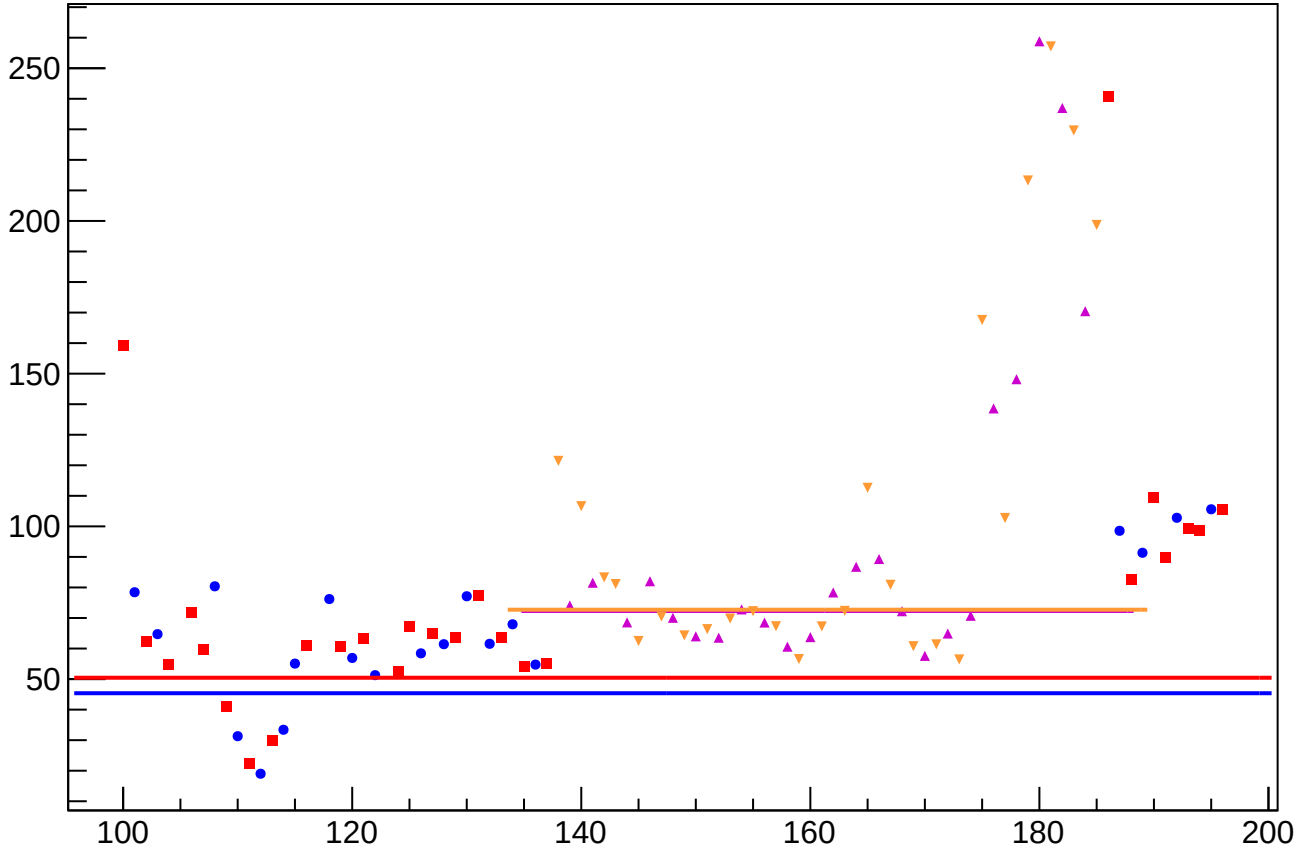
In: 0.002+/-0.000 $\chi^2$/NDF:11164509.9/42

Out: 0.002+/-0.000 $\chi^2$/NDF:15145072.7/50

All: 0.002+/-0.000 $\chi^2$/NDF: 26325275.1/93


asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected
1.5
1
0.5
0
−0.5
−1
100
120
140
160
180
200
Right In: 0.048+/-0.017 χ²/NDF: 19.6/19
Left Out: -0.016+/-0.018 χ²/NDF:21.6/24
Right Out: -0.006+/-0.017 χ²/NDF: 32.6/25
Left In: 0.011+/-0.018 χ²/NDF:23.3/22
Left: -0.002+/-0.013 χ²/NDF: 46.1/47
Right: 0.020+/-0.012 χ²/NDF: 57.4/45
In: 0.031+/-0.012 χ²/NDF:45.1/42
Out: -0.011+/-0.012 χ²/NDF:54.3/50
All: 0.010+/-0.009 χ²/NDF: 105.1/93

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.371+/-0.012 $\chi^2$/NDF: 4540541.2/19

Left Out: 72.716+/-0.013 $\chi^2$/NDF:3961100.5/24

Right Out: 50.439+/-0.012 $\chi^2$/NDF: 4587140.5/25

Left In: 72.298+/-0.013 $\chi^2$/NDF:2790146.5/22

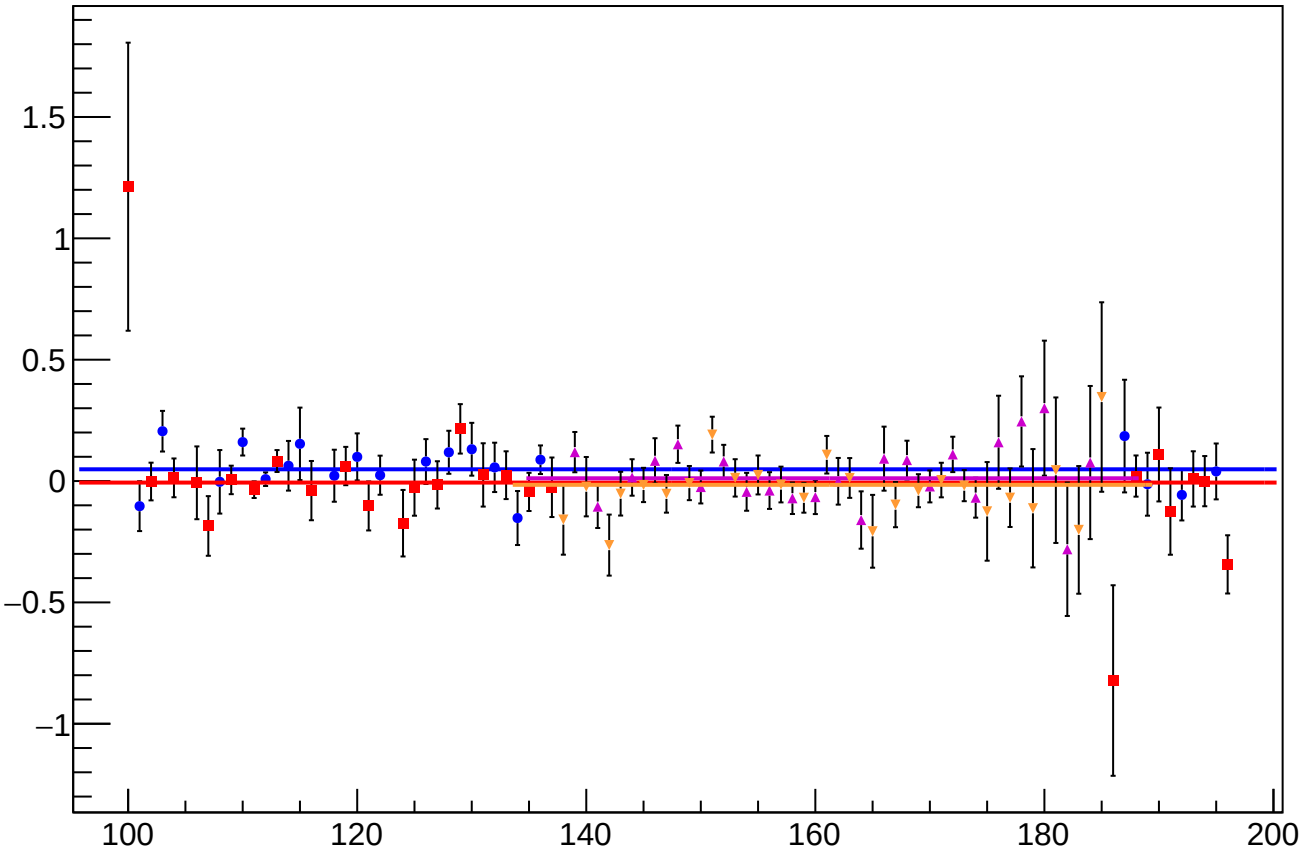
Left: 72.510+/-0.009 $\chi^2$/NDF: 6751779.3/47

Right: 47.957+/-0.008 $\chi^2$/NDF: 9217091.4/45

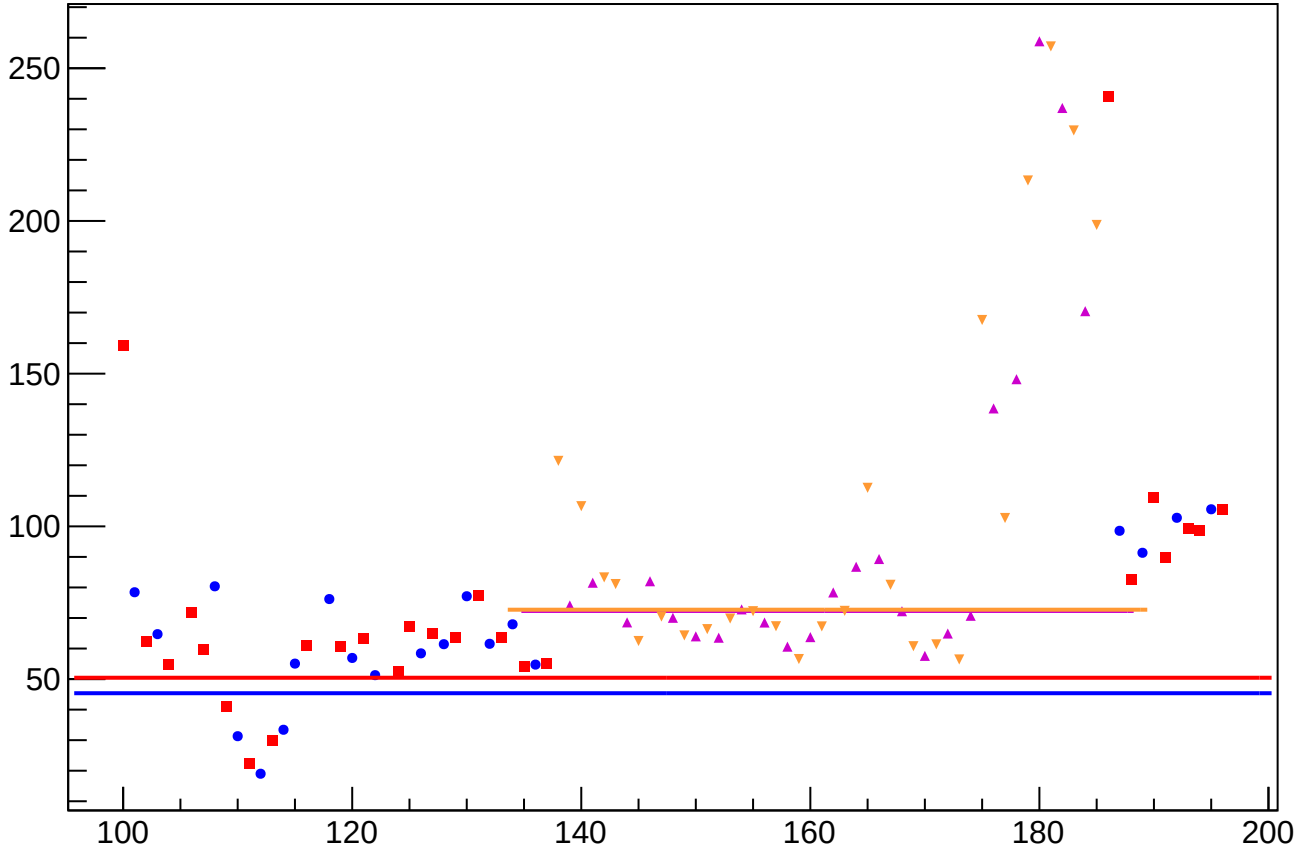
In: 57.975+/-0.009 $\chi^2$/NDF:9645499.2/42

Out: 60.815+/-0.009 $\chi^2$/NDF:10191824.0/50

All: 59.421+/-0.006 $\chi^2$/NDF: 19889994.2/93


asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
1.5
1
0.5
0
−0.5
−1
100
120
140
160
180
200
Right In: 0.048+/-0.017 χ²/NDF: 19.6/19
Left Out: -0.016+/-0.018 χ²/NDF:21.6/24
Right Out: -0.006+/-0.017 χ²/NDF: 32.6/25
Left In: 0.011+/-0.018 χ²/NDF:23.3/22
Left: -0.002+/-0.013 χ²/NDF: 46.1/47
Right: 0.020+/-0.012 χ²/NDF: 57.4/45
In: 0.031+/-0.012 χ²/NDF:45.1/42
Out: -0.011+/-0.012 χ²/NDF:54.3/50
All: 0.010+/-0.009 χ²/NDF: 105.1/93

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 45.371+/-0.012 $\chi^2$/NDF: 4540541.2/19

Left Out: 72.716+/-0.013 $\chi^2$/NDF:3961100.5/24

Right Out: 50.439+/-0.012 $\chi^2$/NDF: 4587140.5/25

Left In: 72.298+/-0.013 $\chi^2$/NDF:2790146.5/22

Left: 72.510+/-0.009 $\chi^2$/NDF: 6751779.3/47

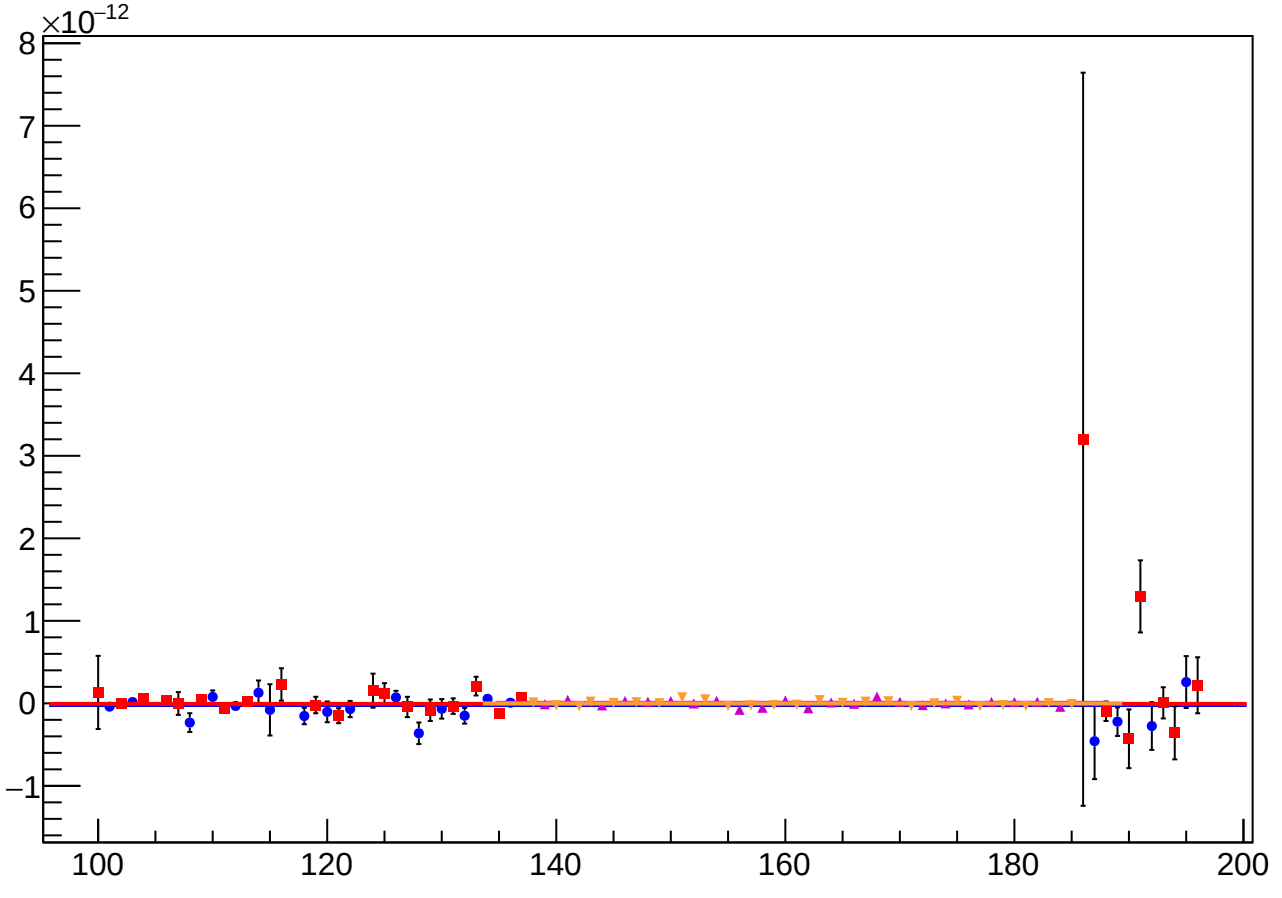
Right: 47.957+/-0.008 $\chi^2$/NDF: 9217091.4/45

In: 57.975+/-0.009 $\chi^2$/NDF:9645499.2/42

Out: 60.815+/-0.009 $\chi^2$/NDF:10191824.0/50

All: 59.421+/-0.006 $\chi^2$/NDF: 19889994.2/93

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:27.9/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 36.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:38.3/22

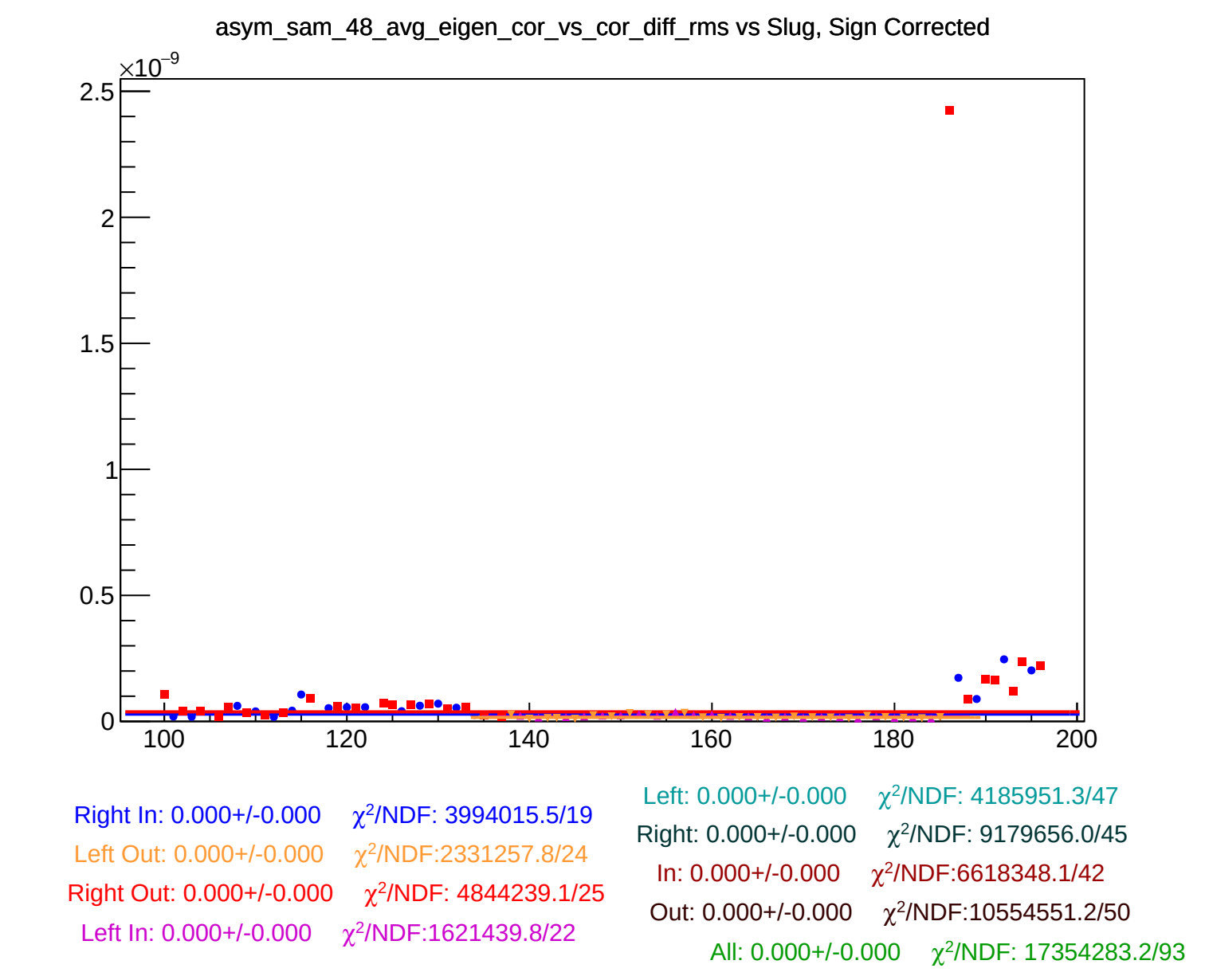
Left: 0.000+/-0.000 $\chi^2$/NDF: 67.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 63.5/45

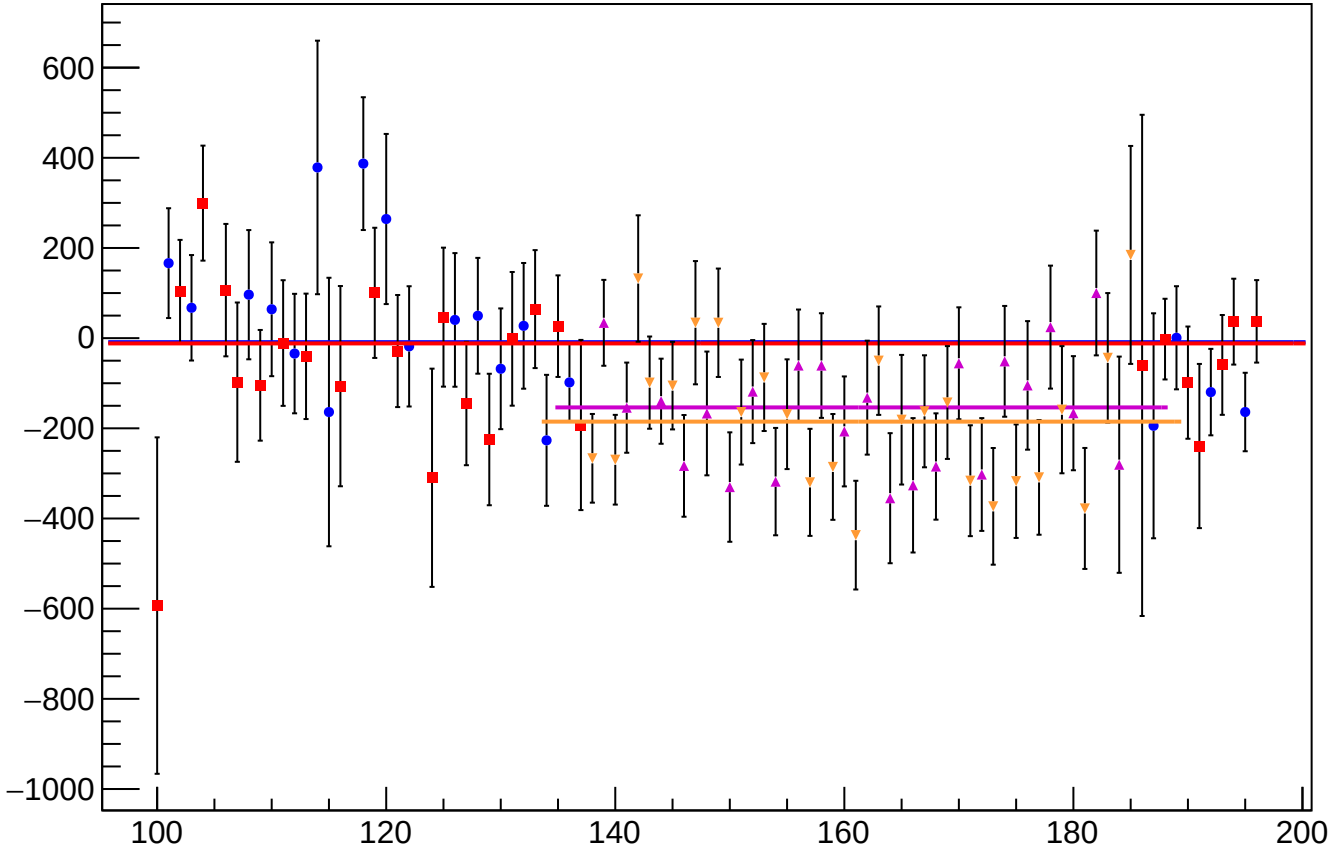
In: 0.000+/-0.000 $\chi^2$/NDF:68.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:64.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 132.9/93


asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
2.5
2
1.5
1
0.5
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3994015.5/19
Left Out: 0.000+/-0.000 χ²/NDF:2331257.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 4844239.1/25
Left In: 0.000+/-0.000 χ²/NDF:1621439.8/22
Left: 0.000+/-0.000 χ²/NDF: 4185951.3/47
Right: 0.000+/-0.000 χ²/NDF: 9179656.0/45
In: 0.000+/-0.000 χ²/NDF:6618348.1/42
Out: 0.000+/-0.000 χ²/NDF:10554551.2/50
All: 0.000+/-0.000 χ²/NDF: 17354283.2/93

# reg_asym_sam_15_dd_mean vs Slug, Sign Corrected




Right In: -8.889+/-29.148 $\chi^2$/NDF: 23.8/19

Left Out: -185.146+/-24.452 $\chi^2$/NDF:33.1/24

Right Out: -11.711+/-26.448 $\chi^2$/NDF: 20.6/25

Left In: -153.627+/-25.538 $\chi^2$/NDF:23.5/22

Left: -170.071+/-17.662 $\chi^2$/NDF: 57.4/47

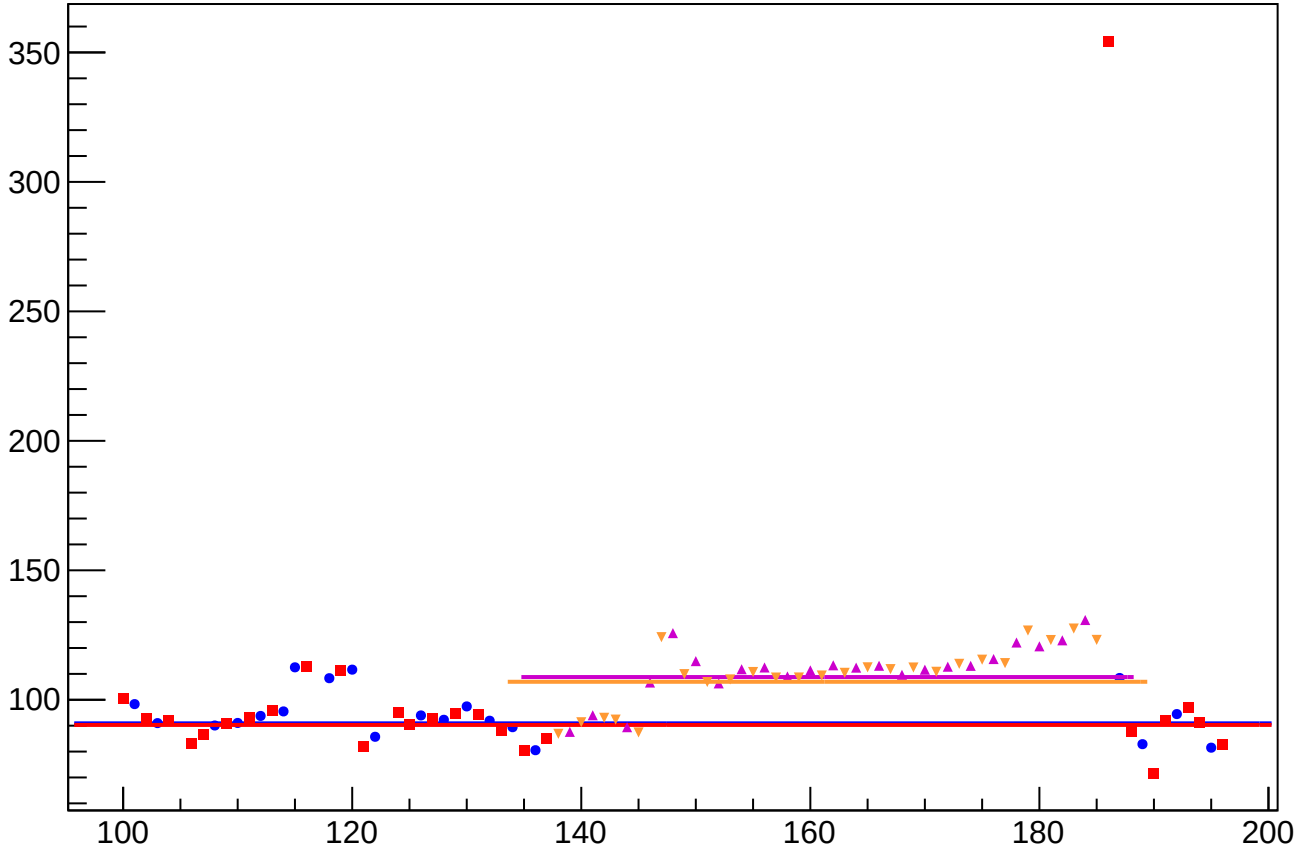
Right: -10.436+/-19.587 $\chi^2$/NDF: 44.4/45

In: -90.772+/-19.208 $\chi^2$/NDF:61.3/42

Out: -105.219+/-17.955 $\chi^2$/NDF:76.8/50

All: -98.482+/-13.117 $\chi^2$/NDF: 138.4/93

# reg_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 90.900+/-0.021 $\chi^2$/NDF: 156228.5/19

Left Out: 106.954+/-0.017 $\chi^2$/NDF:464271.3/24

Right Out: 90.290+/-0.019 $\chi^2$/NDF: 626525.4/25

Left In: 108.781+/-0.018 $\chi^2$/NDF:358436.3/22

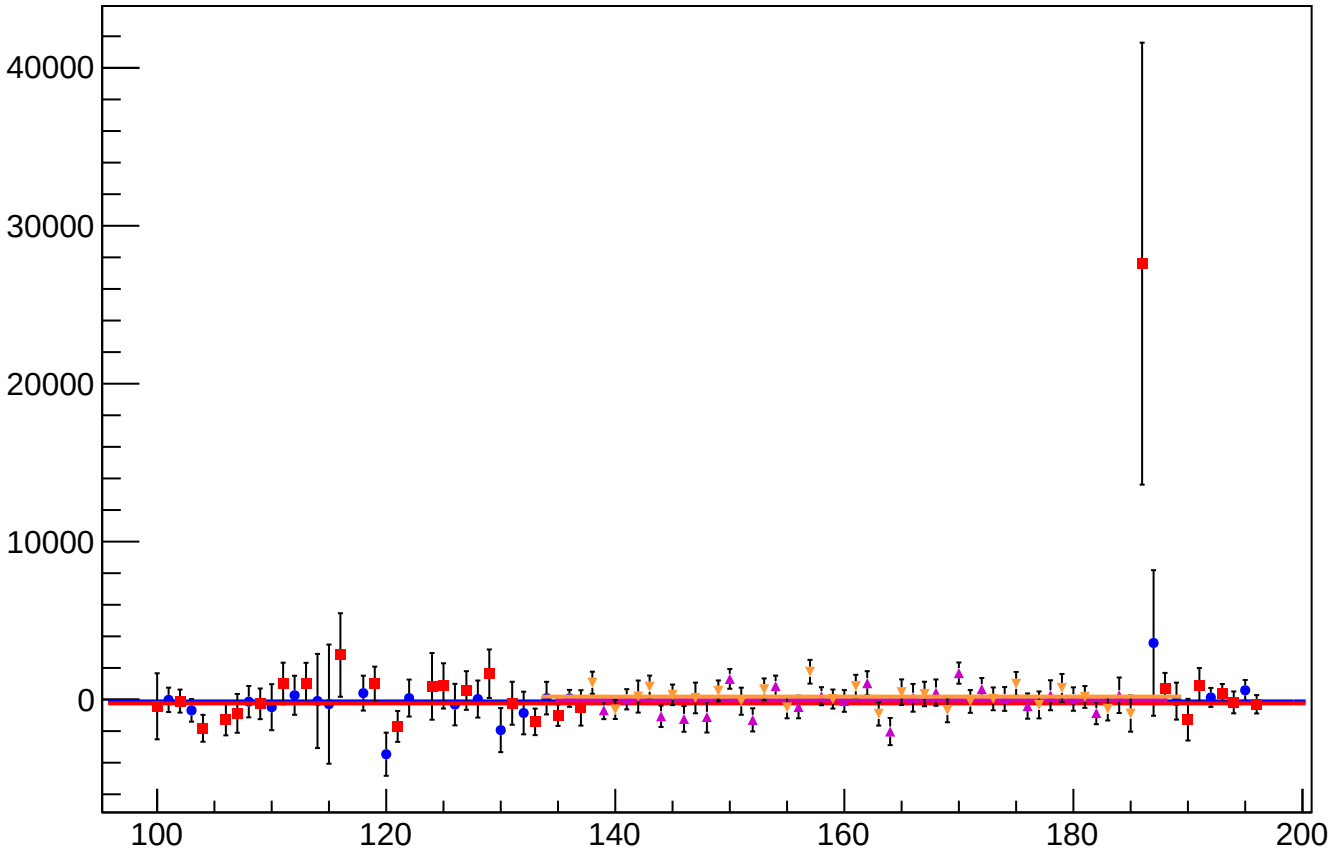
Left: 107.828+/-0.012 $\chi^2$/NDF: 828045.2/47

Right: 90.565+/-0.014 $\chi^2$/NDF: 783233.0/45

In: 101.015+/-0.014 $\chi^2$/NDF:940460.0/42

Out: 99.275+/-0.013 $\chi^2$/NDF:1518836.9/50

All: 100.086+/-0.009 $\chi^2$/NDF: 2468063.1/93




Right In: -119.866+/-219.563 $\chi^2$/NDF: 11.3/19

Left Out: 186.456+/-148.819 $\chi^2$/NDF:19.1/24

Right Out: -242.709+/-193.456 $\chi^2$/NDF: 25.5/25

Left In: -43.249+/-152.059 $\chi^2$/NDF:33.7/22

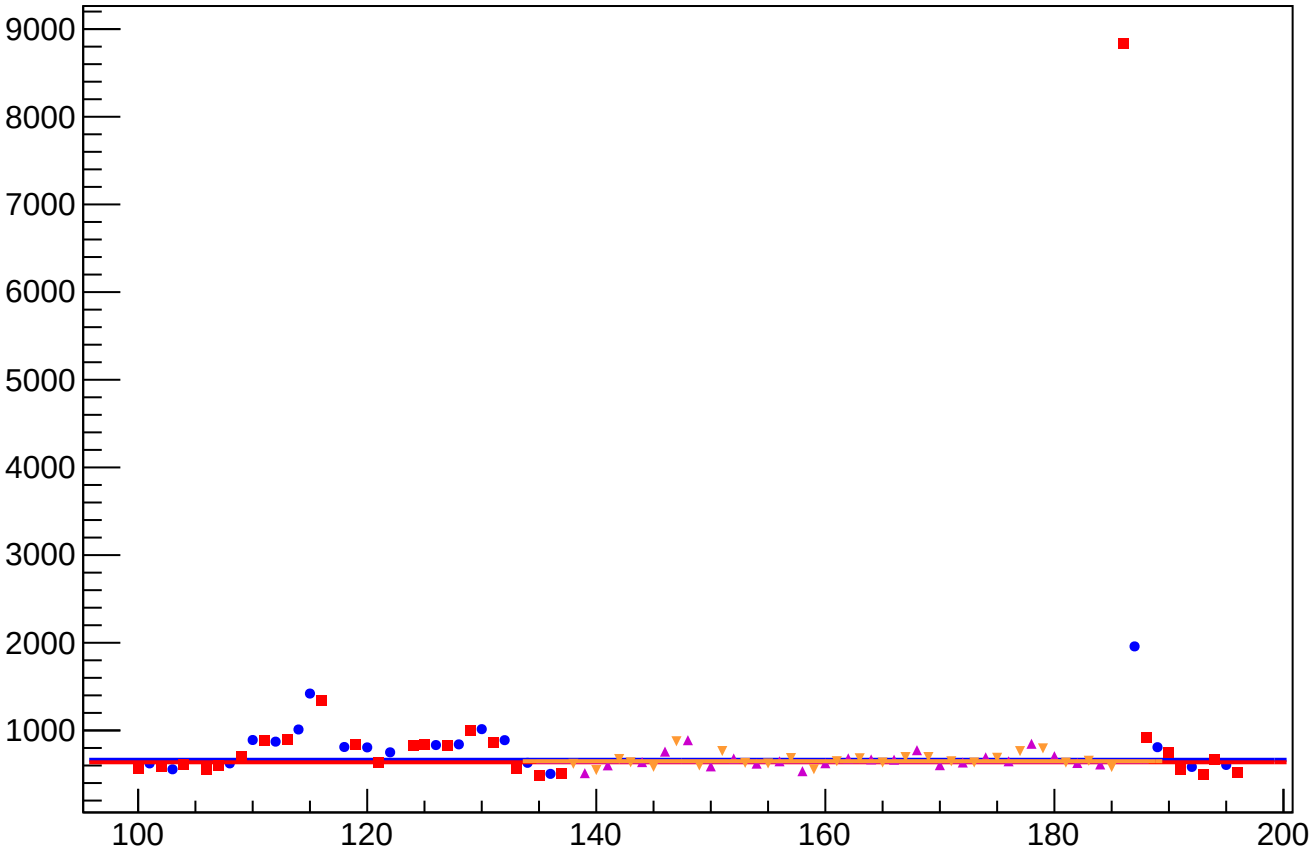
Left: 74.077+/-106.358 $\chi^2$/NDF: 53.9/47

Right: -189.021+/-145.151 $\chi^2$/NDF: 36.9/45

In: -68.085+/-125.007 $\chi^2$/NDF:45.1/42

Out: 26.906+/-117.956 $\chi^2$/NDF:47.7/50

All: -17.835+/-85.792 $\chi^2$/NDF: 93.0/93




Right In: 665.467+/-0.155 $\chi^2$/NDF: 1014352.9/19

Left Out: 649.189+/-0.105 $\chi^2$/NDF:418364.7/24

Right Out: 636.759+/-0.137 $\chi^2$/NDF: 1886911.7/25

Left In: 644.072+/-0.108 $\chi^2$/NDF:559119.9/22

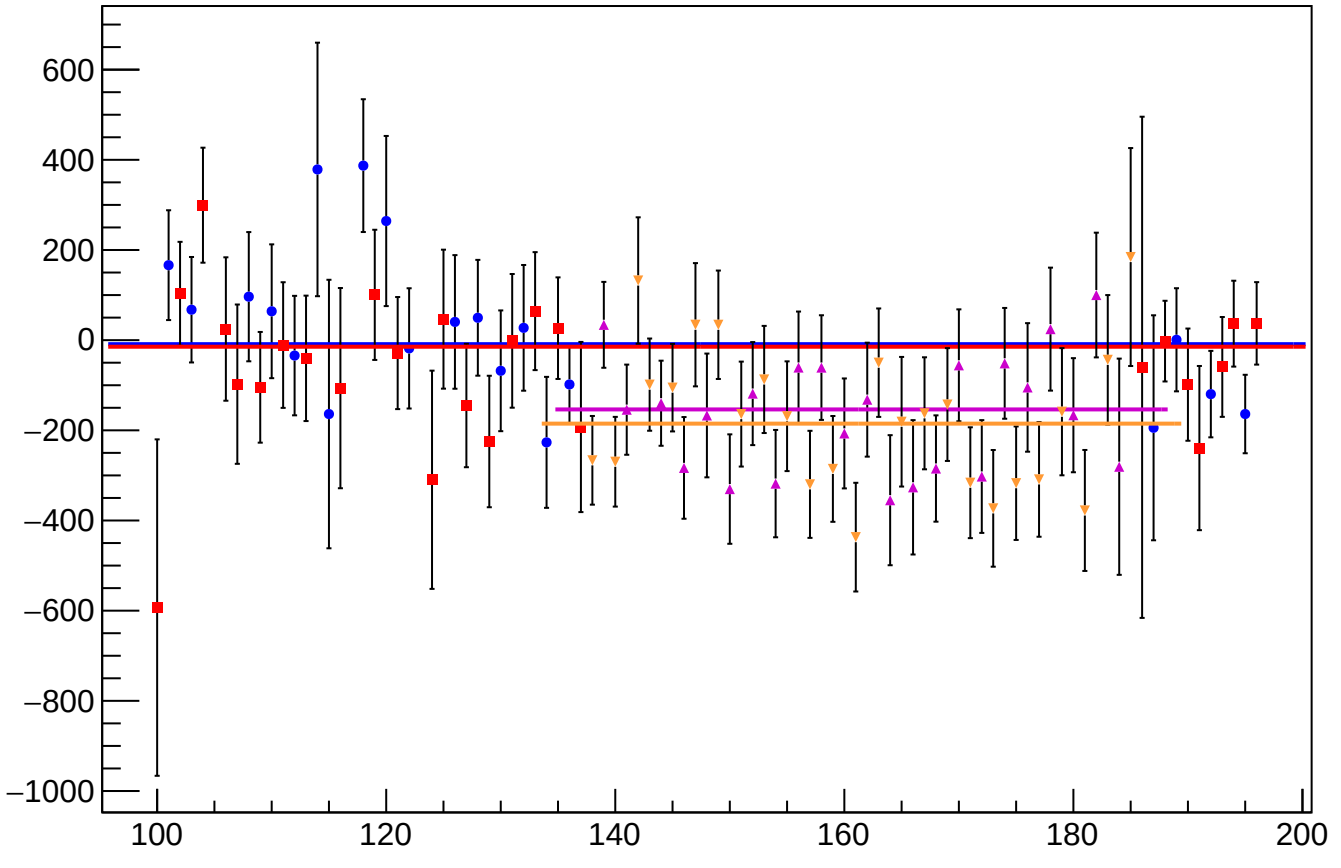
Left: 646.686+/-0.075 $\chi^2$/NDF: 978641.3/47

Right: 649.306+/-0.103 $\chi^2$/NDF: 2920512.9/45

In: 651.008+/-0.088 $\chi^2$/NDF:1586307.5/42

Out: 644.568+/-0.083 $\chi^2$/NDF:2310463.2/50

All: 647.601+/-0.061 $\chi^2$/NDF: 3899578.2/93




Right In: -8.880+/-29.148 $\chi^2$/NDF: 23.8/19

Left Out: -185.148+/-24.452 $\chi^2$/NDF:33.0/24

Right Out: -14.550+/-26.512 $\chi^2$/NDF: 20.0/25

Left In: -153.632+/-25.538 $\chi^2$/NDF:23.5/22

Left: -170.074+/-17.662 $\chi^2$/NDF: 57.4/47

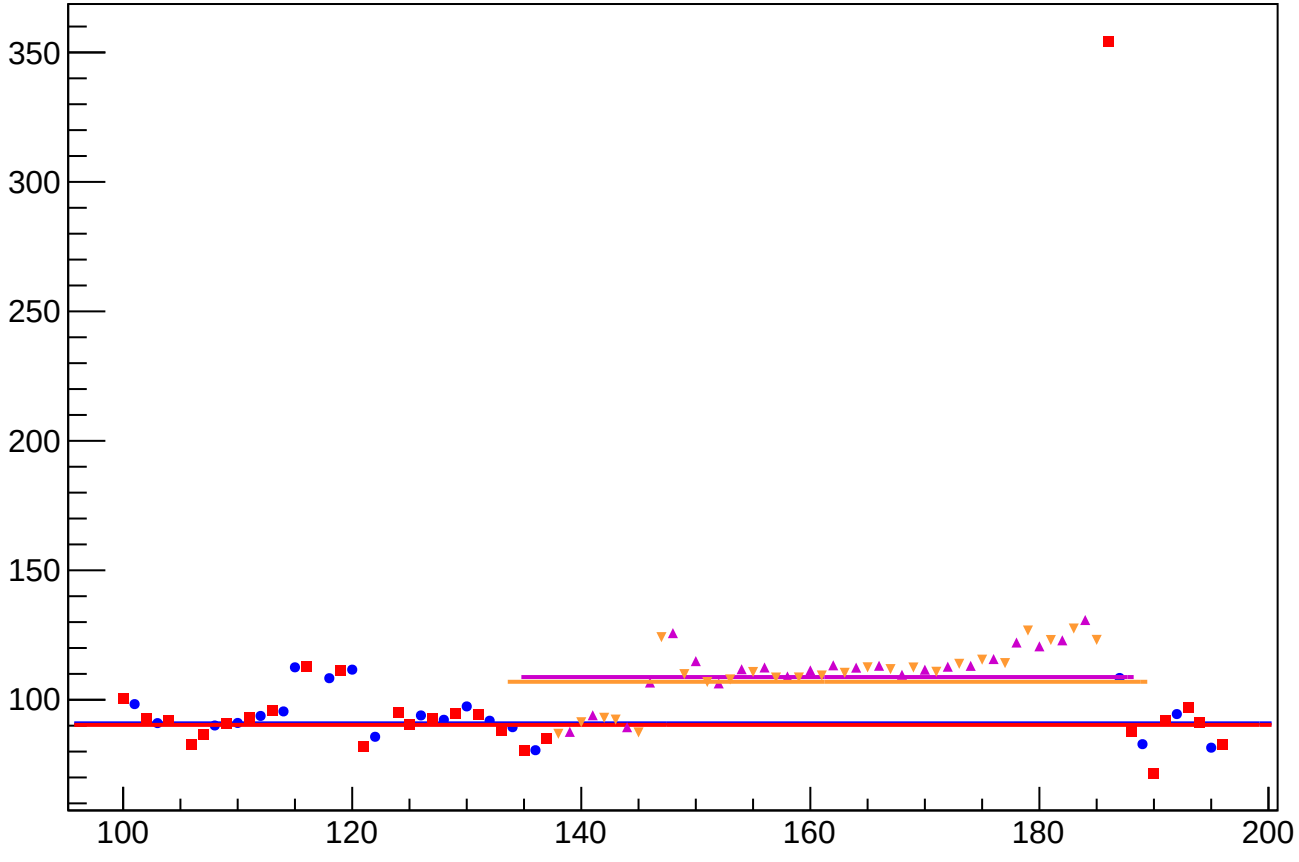
Right: -11.983+/-19.613 $\chi^2$/NDF: 43.8/45

In: -90.771+/-19.208 $\chi^2$/NDF:61.3/42

Out: -106.733+/-17.975 $\chi^2$/NDF:75.4/50

All: -99.281+/-13.124 $\chi^2$/NDF: 137.0/93

# cor_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 90.900+/-0.021 $\chi^2$/NDF: 156228.5/19

Left Out: 106.954+/-0.017 $\chi^2$/NDF:464271.4/24

Right Out: 90.309+/-0.019 $\chi^2$/NDF: 626471.5/25

Left In: 108.781+/-0.018 $\chi^2$/NDF:358436.4/22

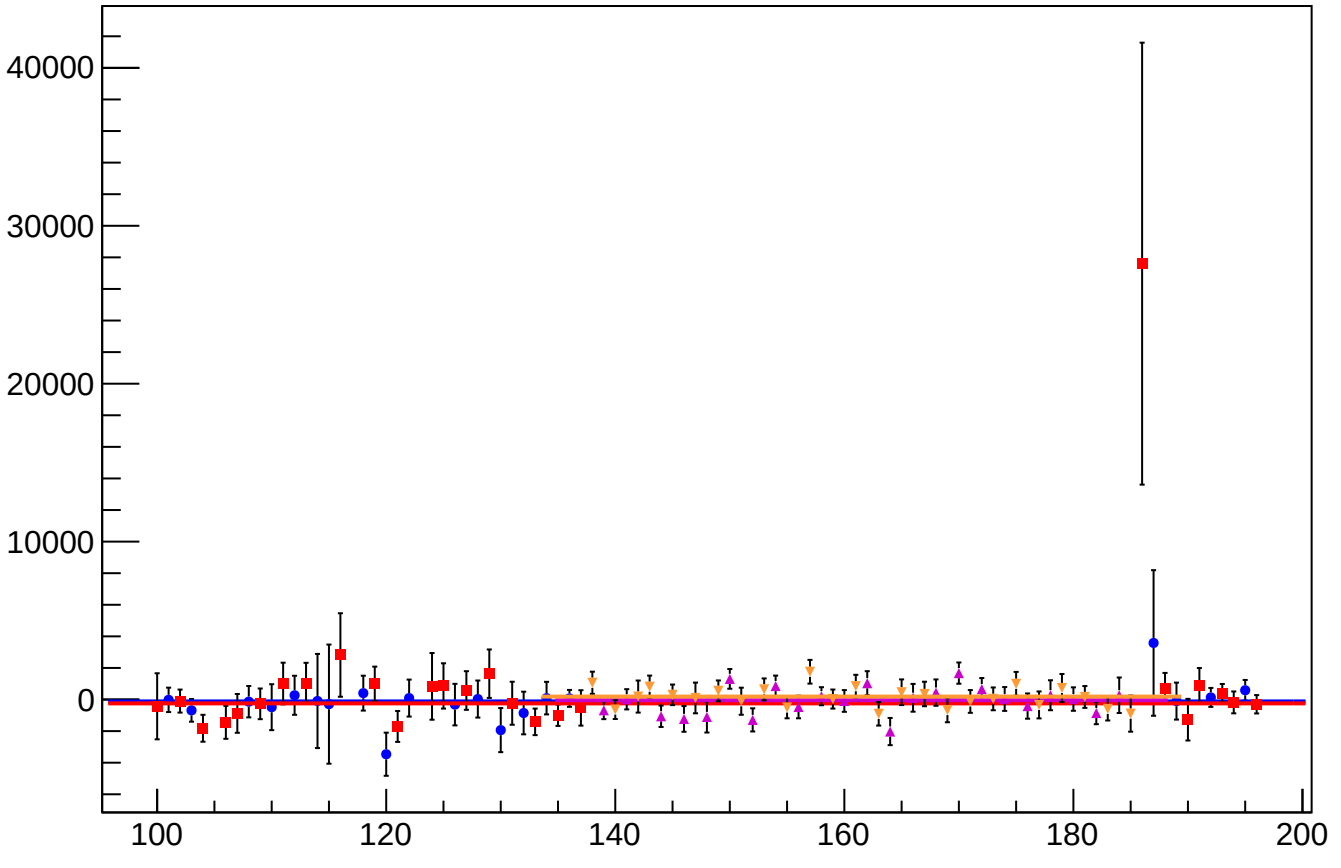
Left: 107.828+/-0.012 $\chi^2$/NDF: 828045.3/47

Right: 90.577+/-0.014 $\chi^2$/NDF: 783148.5/45

In: 101.015+/-0.014 $\chi^2$/NDF:940459.9/42

Out: 99.303+/-0.013 $\chi^2$/NDF:1516696.0/50

All: 100.103+/-0.009 $\chi^2$/NDF: 2465627.0/93




Right In: -119.865+/-219.563 $\chi^2$/NDF: 11.3/19

Left Out: 186.450+/-148.819 $\chi^2$/NDF:19.1/24

Right Out: -244.120+/-193.845 $\chi^2$/NDF: 25.7/25

Left In: -43.251+/-152.059 $\chi^2$/NDF:33.7/22

Left: 74.072+/-106.358 $\chi^2$/NDF: 53.9/47

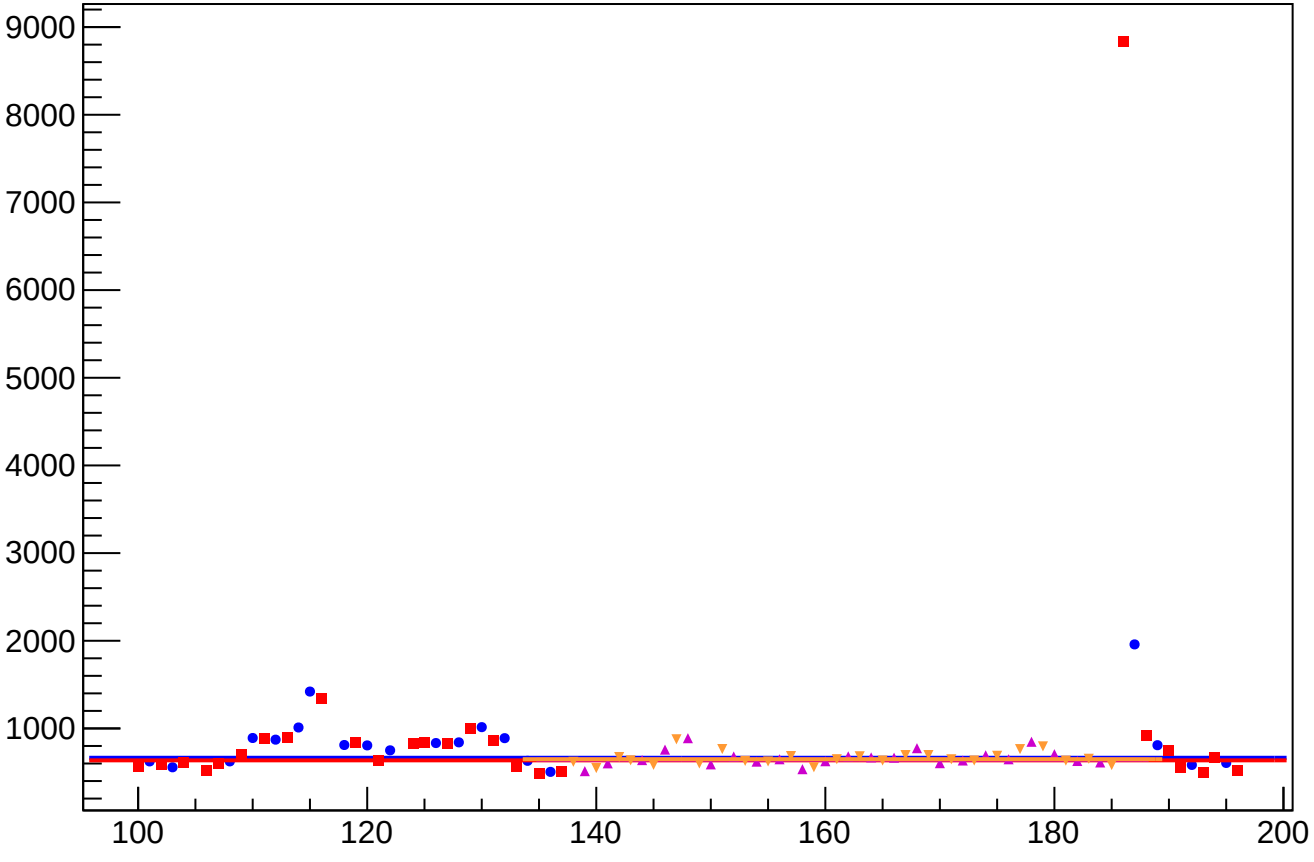
Right: -189.693+/-145.315 $\chi^2$/NDF: 37.2/45

In: -68.086+/-125.007 $\chi^2$/NDF:45.1/42

Out: 26.780+/-118.044 $\chi^2$/NDF:47.9/50

All: -17.937+/-85.826 $\chi^2$/NDF: 93.3/93

asym_sam_15_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 665.467+/-0.155 $\chi^2$/NDF: 1014353.9/19

Left Out: 649.189+/-0.105 $\chi^2$/NDF:418365.4/24

Right Out: 636.144+/-0.137 $\chi^2$/NDF: 1895575.3/25

Left In: 644.072+/-0.108 $\chi^2$/NDF:559121.0/22

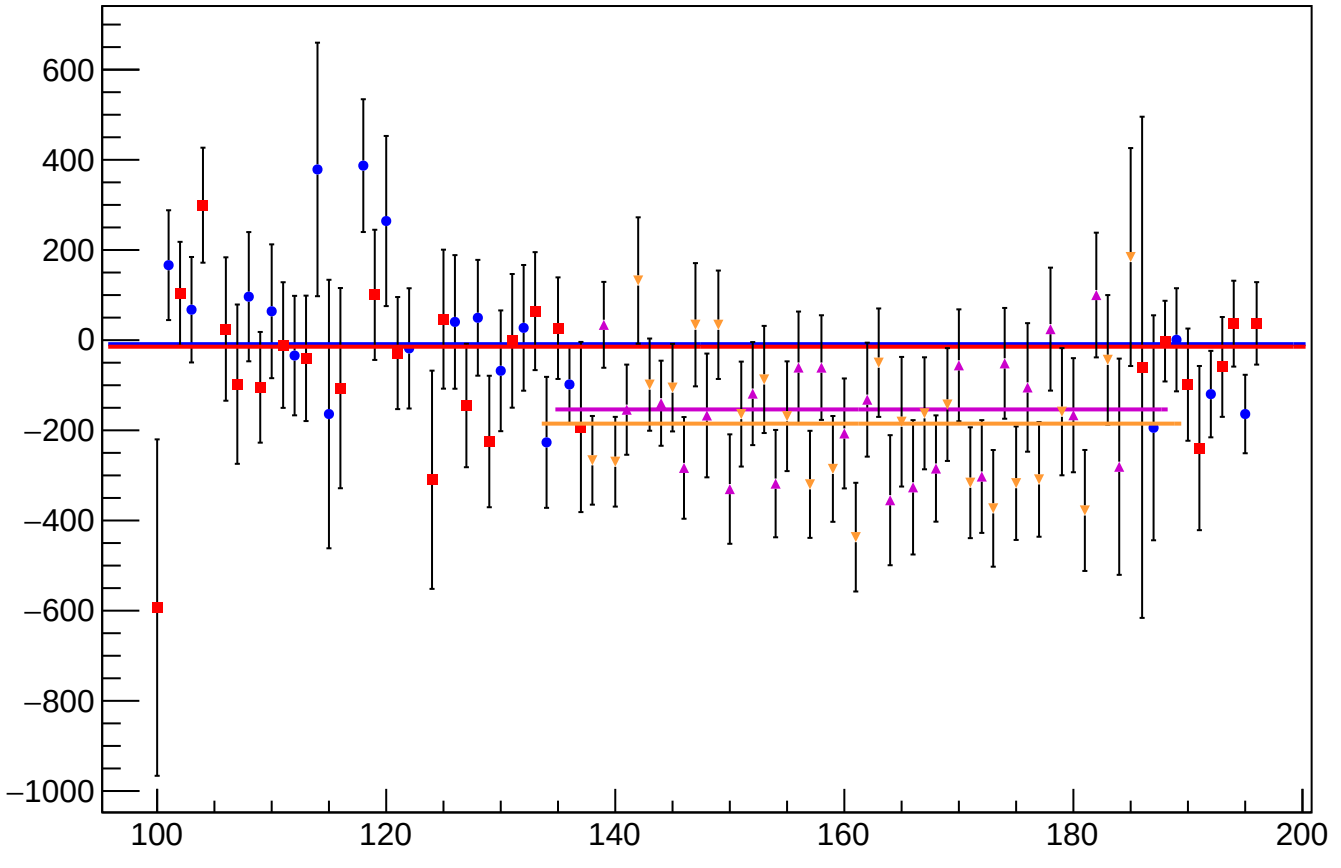
Left: 646.686+/-0.075 $\chi^2$/NDF: 978643.1/47

Right: 648.988+/-0.103 $\chi^2$/NDF: 2929976.3/45

In: 651.007+/-0.088 $\chi^2$/NDF:1586309.2/42

Out: 644.351+/-0.083 $\chi^2$/NDF:2319639.8/50

All: 647.489+/-0.061 $\chi^2$/NDF: 3908946.4/93




Right In: -8.880+/-29.148 $\chi^2$/NDF: 23.8/19

Left Out: -185.148+/-24.452 $\chi^2$/NDF:33.0/24

Right Out: -14.550+/-26.512 $\chi^2$/NDF: 20.0/25

Left In: -153.632+/-25.538 $\chi^2$/NDF:23.5/22

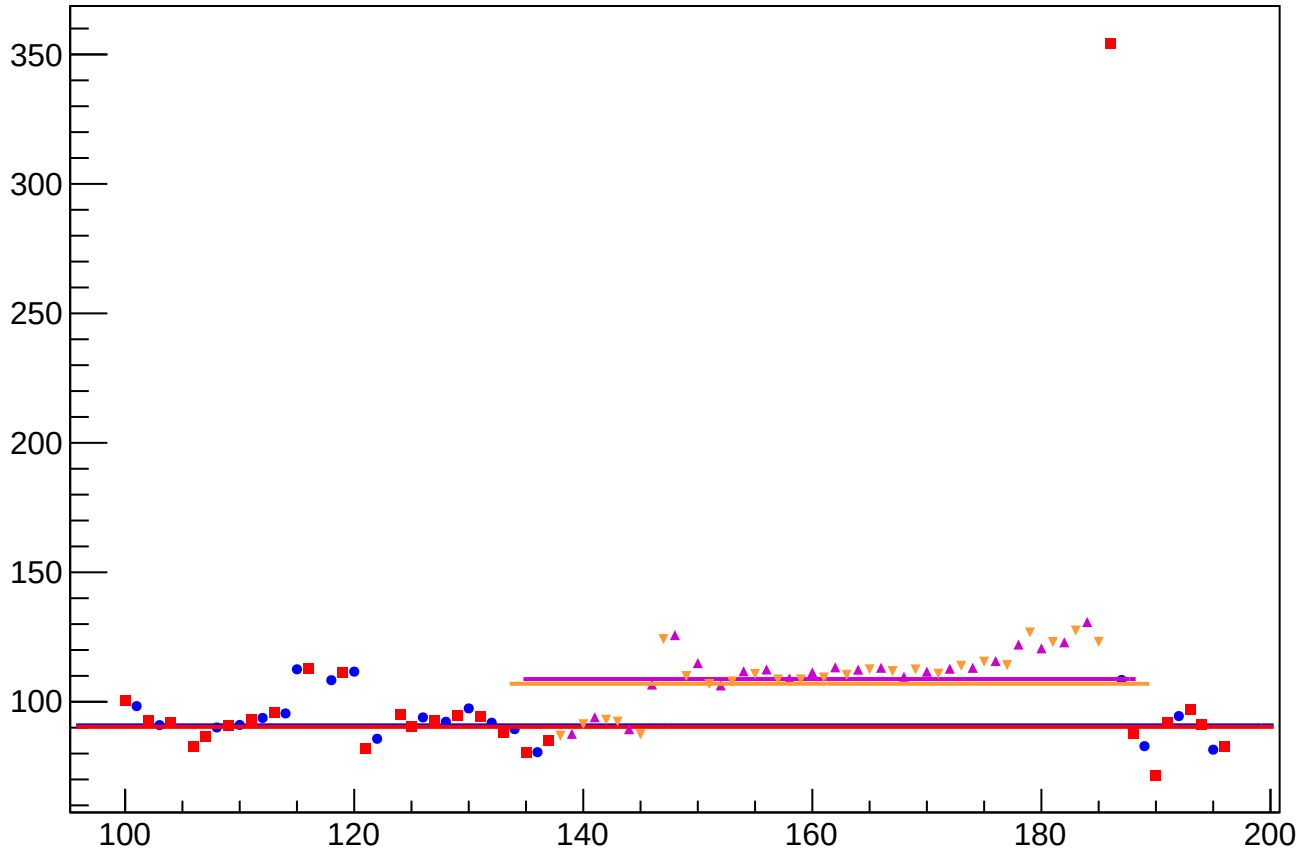
Left: -170.074+/-17.662 $\chi^2$/NDF: 57.4/47

Right: -11.983+/-19.613 $\chi^2$/NDF: 43.8/45

In: -90.771+/-19.208 $\chi^2$/NDF:61.3/42

Out: -106.733+/-17.975 $\chi^2$/NDF:75.4/50

All: -99.281+/-13.124 $\chi^2$/NDF: 137.0/93




Right In: 90.900+/-0.021 $\chi^2$/NDF: 156228.5/19

Left Out: 106.954+/-0.017 $\chi^2$/NDF:464271.4/24

Right Out: 90.309+/-0.019 $\chi^2$/NDF: 626471.5/25

Left In: 108.781+/-0.018 $\chi^2$/NDF:358436.4/22

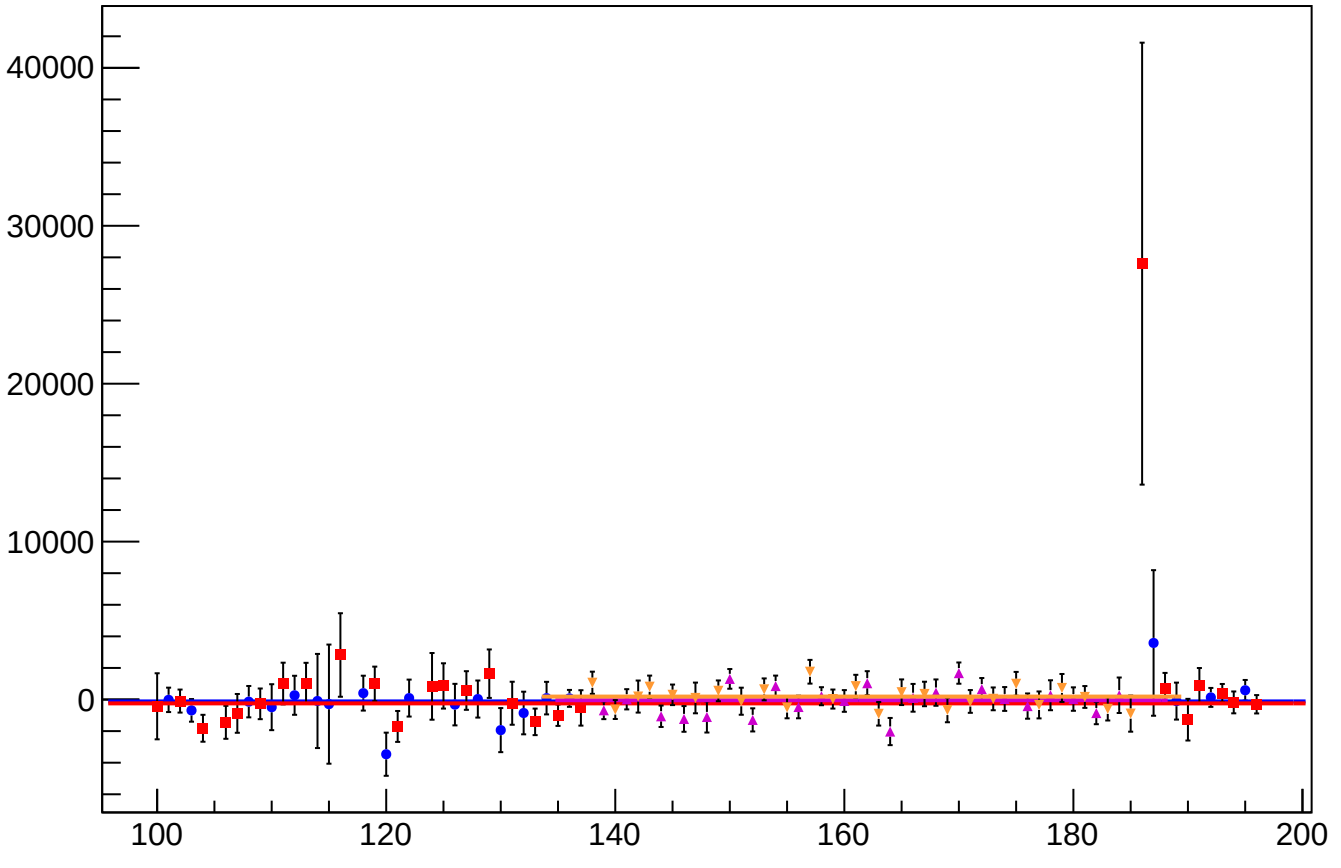
Left: 107.828+/-0.012 $\chi^2$/NDF: 828045.3/47

Right: 90.577+/-0.014 $\chi^2$/NDF: 783148.5/45

In: 101.015+/-0.014 $\chi^2$/NDF:940459.9/42

Out: 99.303+/-0.013 $\chi^2$/NDF:1516696.0/50

All: 100.103+/-0.009 $\chi^2$/NDF: 2465627.0/93




Right In: -119.865+/-219.563 $\chi^2$/NDF: 11.3/19

Left Out: 186.450+/-148.819 $\chi^2$/NDF:19.1/24

Right Out: -244.120+/-193.845 $\chi^2$/NDF: 25.7/25

Left In: -43.251+/-152.059 $\chi^2$/NDF:33.7/22

Left: 74.072+/-106.358 $\chi^2$/NDF: 53.9/47

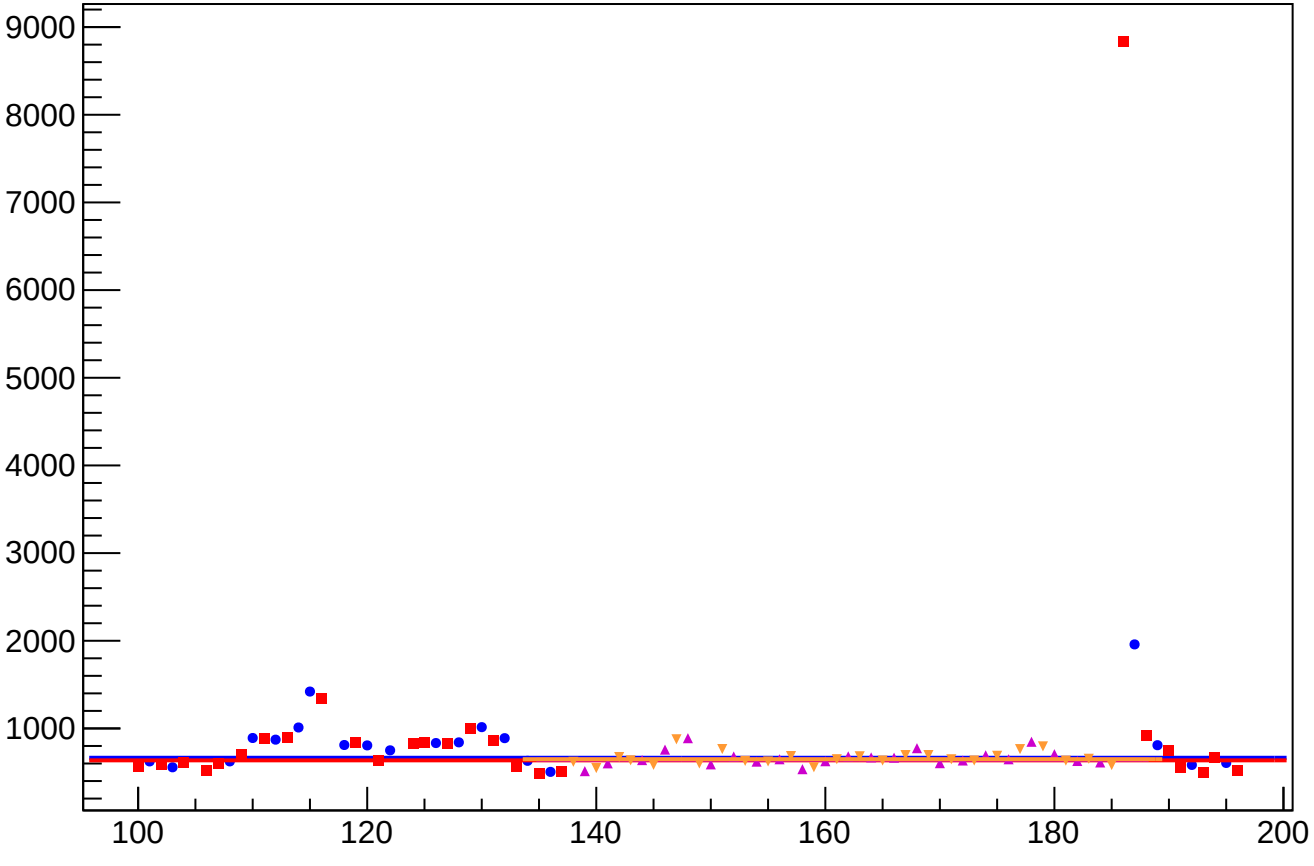
Right: -189.693+/-145.315 $\chi^2$/NDF: 37.2/45

In: -68.086+/-125.007 $\chi^2$/NDF:45.1/42

Out: 26.780+/-118.044 $\chi^2$/NDF:47.9/50

All: -17.937+/-85.826 $\chi^2$/NDF: 93.3/93

asym_sam_15_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 665.467+/-0.155 $\chi^2$/NDF: 1014353.9/19

Left Out: 649.189+/-0.105 $\chi^2$/NDF:418365.4/24

Right Out: 636.144+/-0.137 $\chi^2$/NDF: 1895575.3/25

Left In: 644.072+/-0.108 $\chi^2$/NDF:559121.0/22

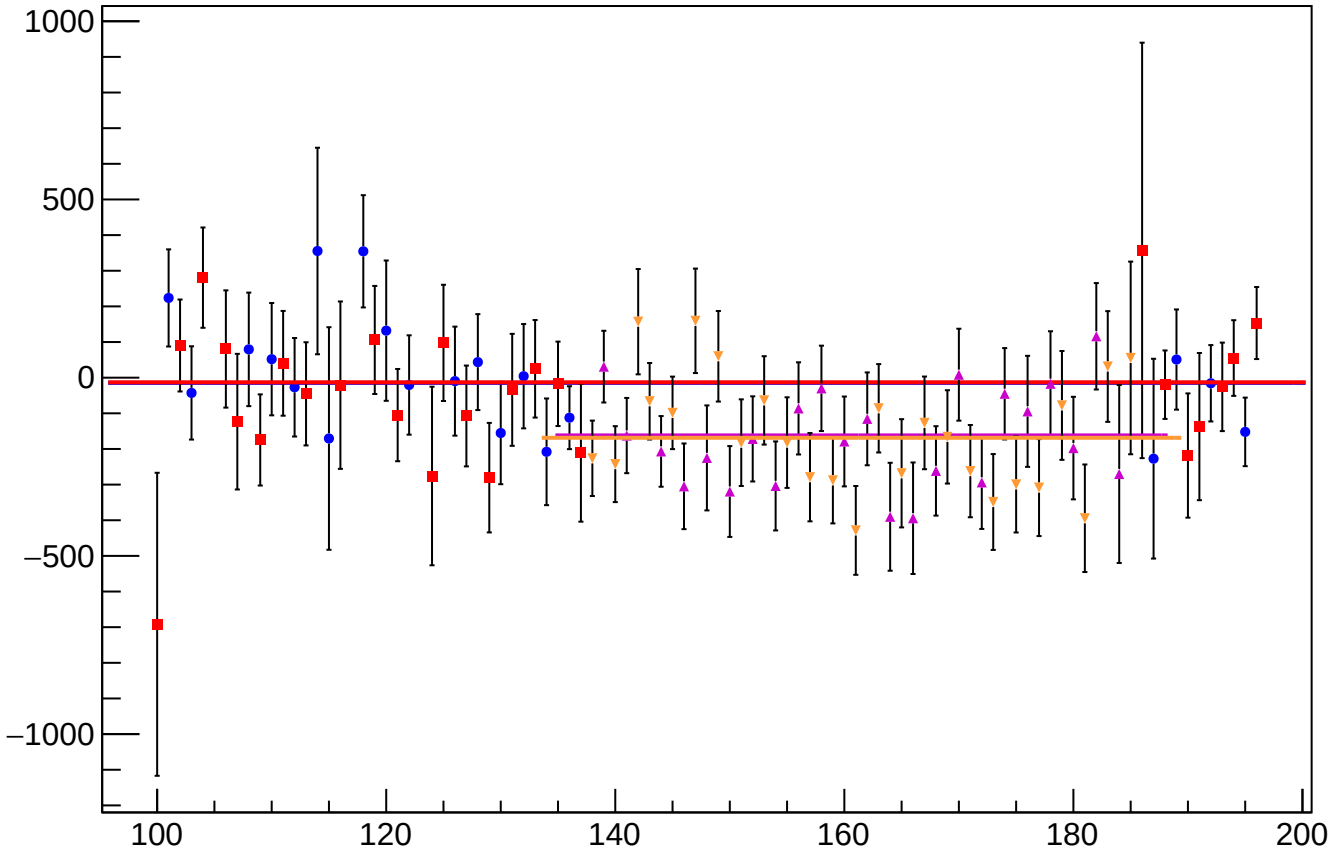
Left: 646.686+/-0.075 $\chi^2$/NDF: 978643.1/47

Right: 648.988+/-0.103 $\chi^2$/NDF: 2929976.3/45

In: 651.007+/-0.088 $\chi^2$/NDF:1586309.2/42

Out: 644.351+/-0.083 $\chi^2$/NDF:2319639.8/50

All: 647.489+/-0.061 $\chi^2$/NDF: 3908946.4/93




Right In: -14.532+/-31.484 $\chi^2$/NDF: 18.5/19

Left Out: -168.634+/-25.819 $\chi^2$/NDF:32.4/24

Right Out: -13.047+/-28.696 $\chi^2$/NDF: 22.6/25

Left In: -162.028+/-26.948 $\chi^2$/NDF:23.6/22

Left: -165.472+/-18.643 $\chi^2$/NDF: 56.0/47

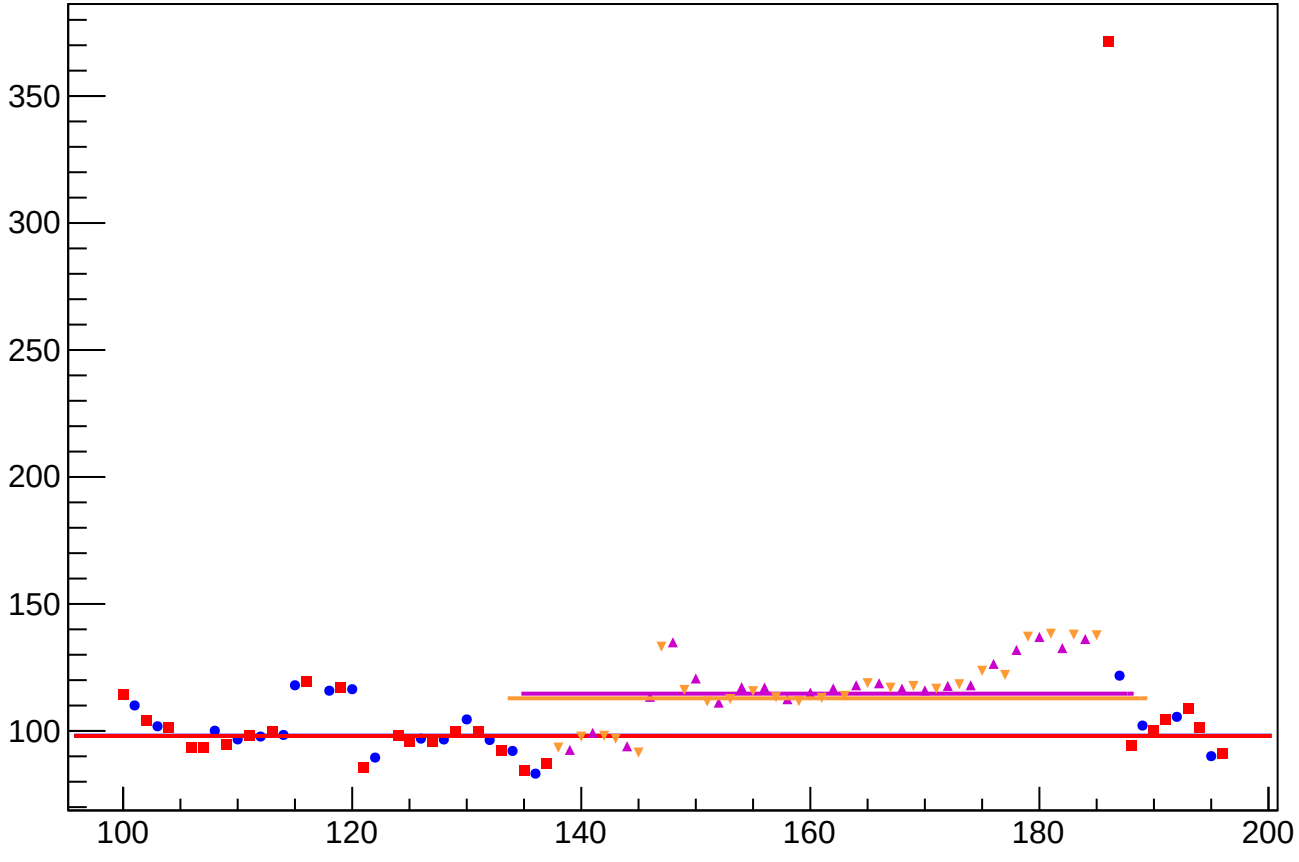
Right: -13.721+/-21.208 $\chi^2$/NDF: 41.0/45

In: -99.663+/-20.473 $\chi^2$/NDF:54.7/42

Out: -99.027+/-19.194 $\chi^2$/NDF:71.2/50

All: -99.325+/-14.002 $\chi^2$/NDF: 125.9/93

# dit_asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 98.128+/-0.022 $\chi^2$/NDF: 180329.5/19

Left Out: 112.850+/-0.018 $\chi^2$/NDF:512260.6/24

Right Out: 98.019+/-0.020 $\chi^2$/NDF: 588601.9/25

Left In: 114.677+/-0.019 $\chi^2$/NDF:409932.2/22

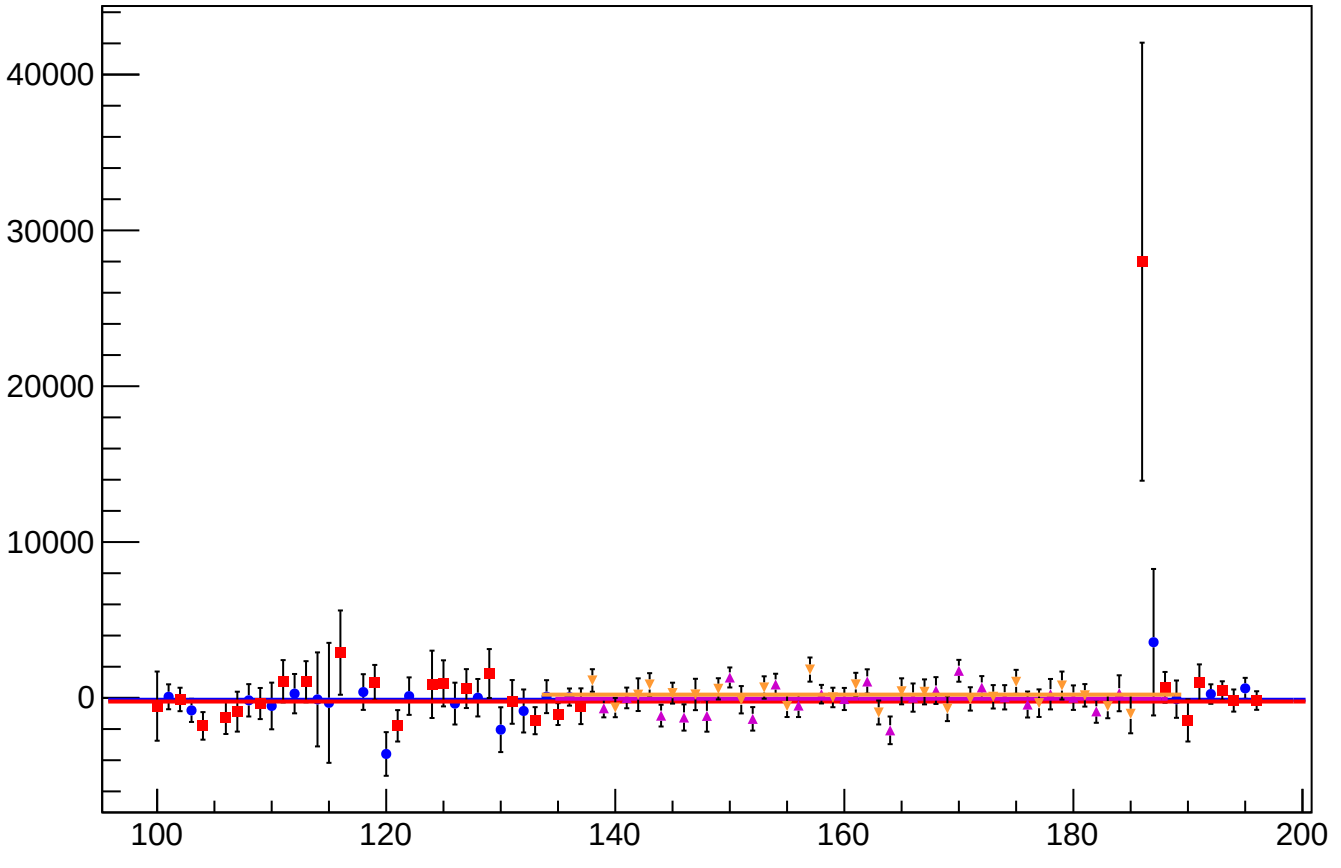
Left: 113.724+/-0.013 $\chi^2$/NDF: 926988.8/47

Right: 98.068+/-0.015 $\chi^2$/NDF: 768944.3/45

In: 107.680+/-0.014 $\chi^2$/NDF:909207.6/42

Out: 106.215+/-0.014 $\chi^2$/NDF:1396063.4/50

All: 106.900+/-0.010 $\chi^2$/NDF: 2310720.8/93




Right In: -119.656+/-226.524 $\chi^2$/NDF: 11.8/19

Left Out: 209.377+/-153.925 $\chi^2$/NDF:18.9/24

Right Out: -233.990+/-199.888 $\chi^2$/NDF: 25.4/25

Left In: -50.266+/-157.485 $\chi^2$/NDF:33.3/22

Left: 82.523+/-110.079 $\chi^2$/NDF: 53.6/47

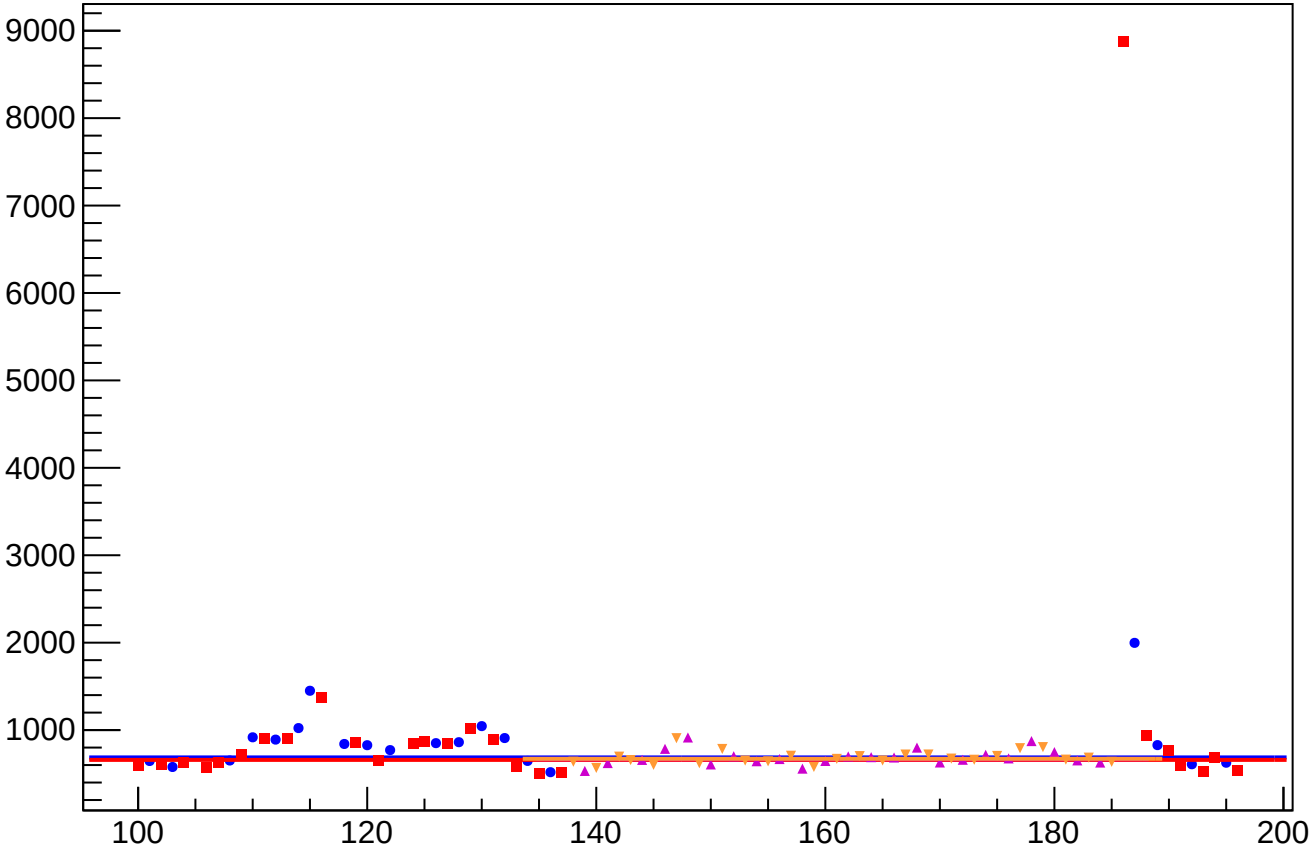
Right: -183.937+/-149.879 $\chi^2$/NDF: 37.4/45

In: -72.877+/-129.306 $\chi^2$/NDF:45.2/42

Out: 44.333+/-121.956 $\chi^2$/NDF:47.4/50

All: -10.846+/-88.721 $\chi^2$/NDF: 93.0/93

asym_sam_15_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 687.343+/-0.160 $\chi^2$/NDF: 988777.9/19

Left Out: 671.849+/-0.109 $\chi^2$/NDF:399159.9/24

Right Out: 659.092+/-0.141 $\chi^2$/NDF: 1828356.9/25

Left In: 667.341+/-0.111 $\chi^2$/NDF:546903.6/22

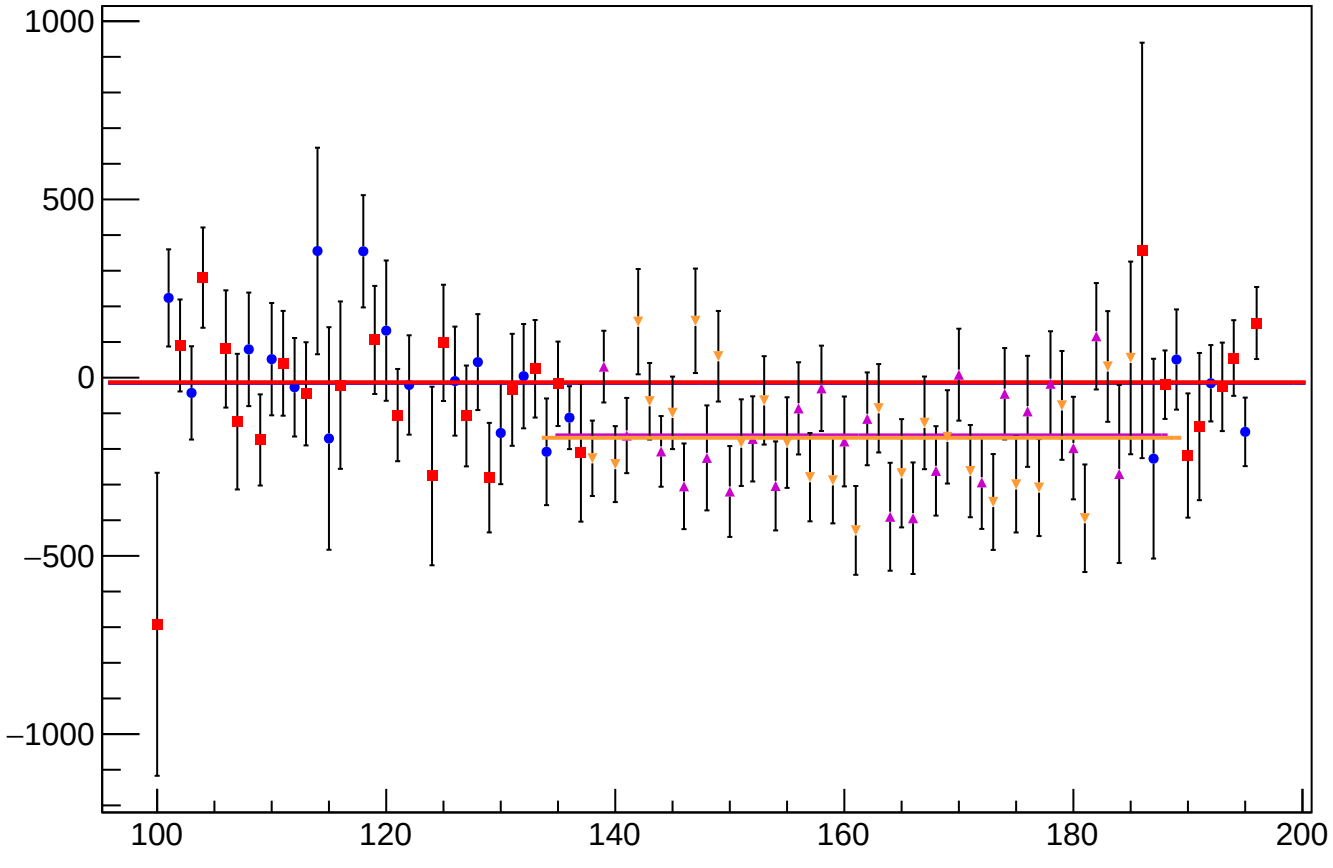
Left: 669.646+/-0.078 $\chi^2$/NDF: 946901.4/47

Right: 671.459+/-0.106 $\chi^2$/NDF: 2834624.8/45

In: 673.859+/-0.091 $\chi^2$/NDF:1546193.8/42

Out: 667.100+/-0.086 $\chi^2$/NDF:2232630.6/50

All: 670.282+/-0.063 $\chi^2$/NDF: 3781716.3/93




Right In: -14.531+/-31.484 $\chi^2$/NDF: 18.5/19

Left Out: -168.635+/-25.819 $\chi^2$/NDF:32.4/24

Right Out: -13.048+/-28.696 $\chi^2$/NDF: 22.6/25

Left In: -162.028+/-26.948 $\chi^2$/NDF:23.6/22

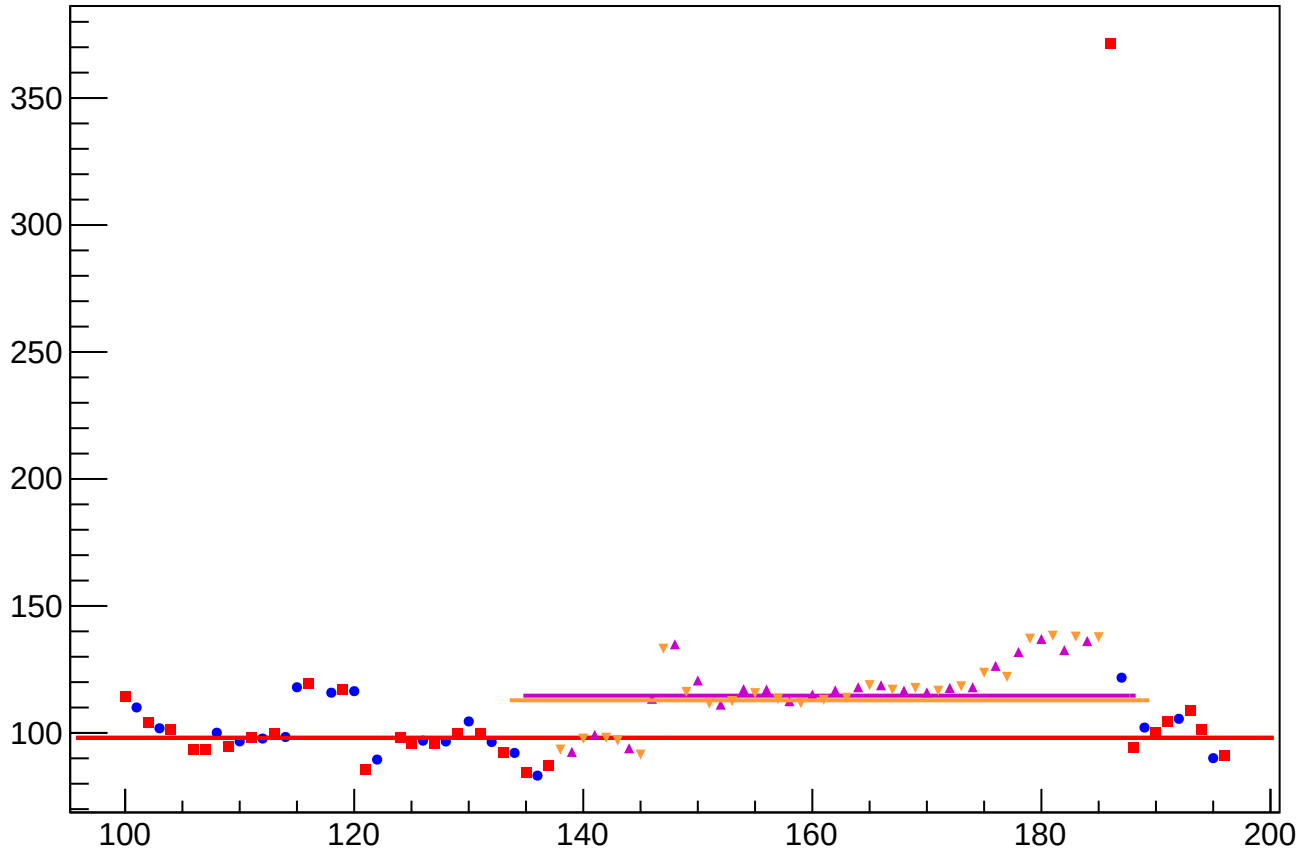
Left: -165.473+/-18.643 $\chi^2$/NDF: 56.0/47

Right: -13.721+/-21.208 $\chi^2$/NDF: 41.0/45

In: -99.663+/-20.473 $\chi^2$/NDF:54.7/42

Out: -99.027+/-19.194 $\chi^2$/NDF:71.2/50

All: -99.325+/-14.002 $\chi^2$/NDF: 125.9/93




Right In: 98.127+/-0.022 $\chi^2$/NDF: 180333.4/19

Left Out: 112.850+/-0.018 $\chi^2$/NDF:512254.2/24

Right Out: 98.019+/-0.020 $\chi^2$/NDF: 588600.6/25

Left In: 114.677+/-0.019 $\chi^2$/NDF:409929.2/22

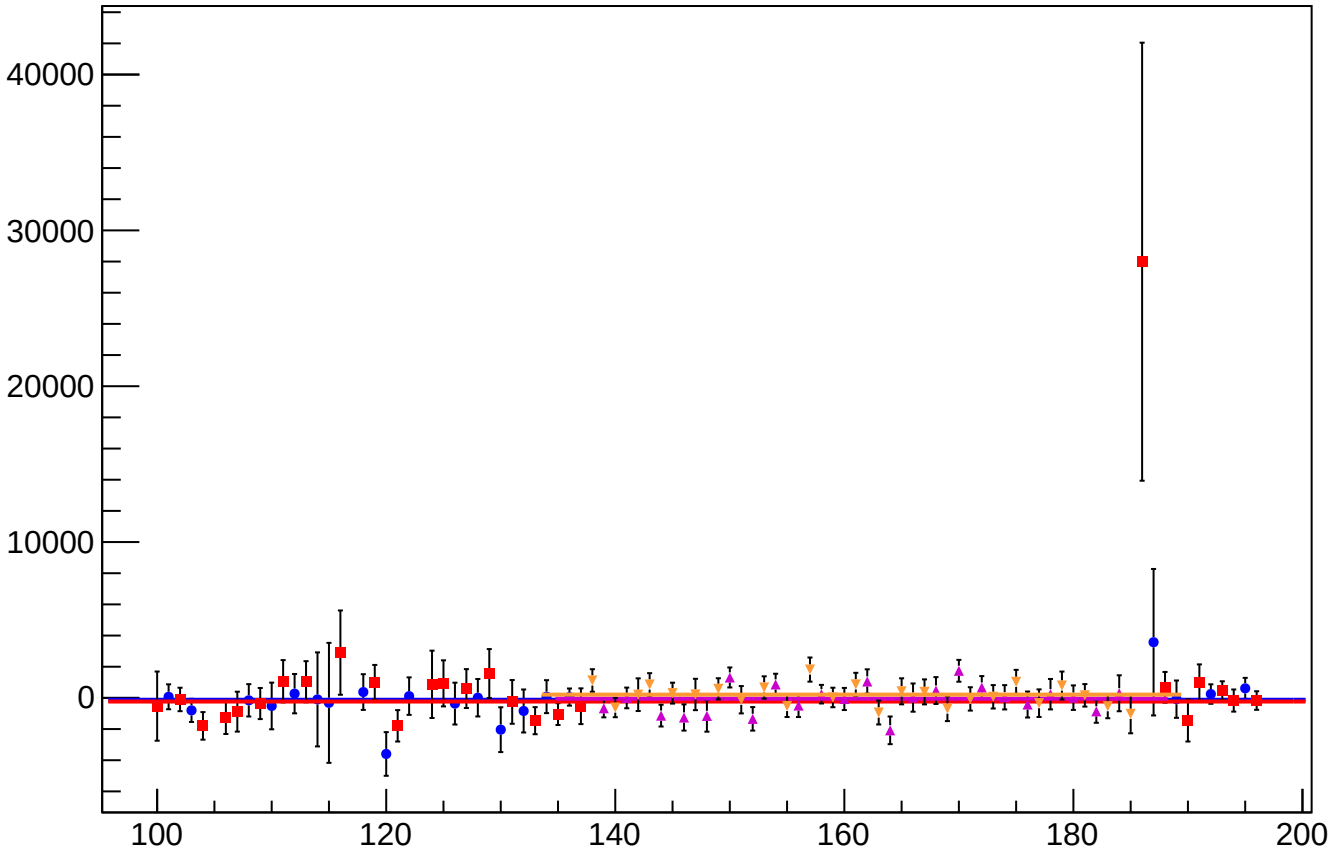
Left: 113.724+/-0.013 $\chi^2$/NDF: 926979.7/47

Right: 98.068+/-0.015 $\chi^2$/NDF: 768946.9/45

In: 107.680+/-0.014 $\chi^2$/NDF:909220.0/42

Out: 106.215+/-0.014 $\chi^2$/NDF:1396063.4/50

All: 106.900+/-0.010 $\chi^2$/NDF: 2310733.5/93




Right In: -119.655+/-226.524 $\chi^2$/NDF: 11.8/19

Left Out: 209.377+/-153.926 $\chi^2$/NDF:18.9/24

Right Out: -233.990+/-199.887 $\chi^2$/NDF: 25.4/25

Left In: -50.267+/-157.485 $\chi^2$/NDF:33.3/22

Left: 82.523+/-110.079 $\chi^2$/NDF: 53.6/47

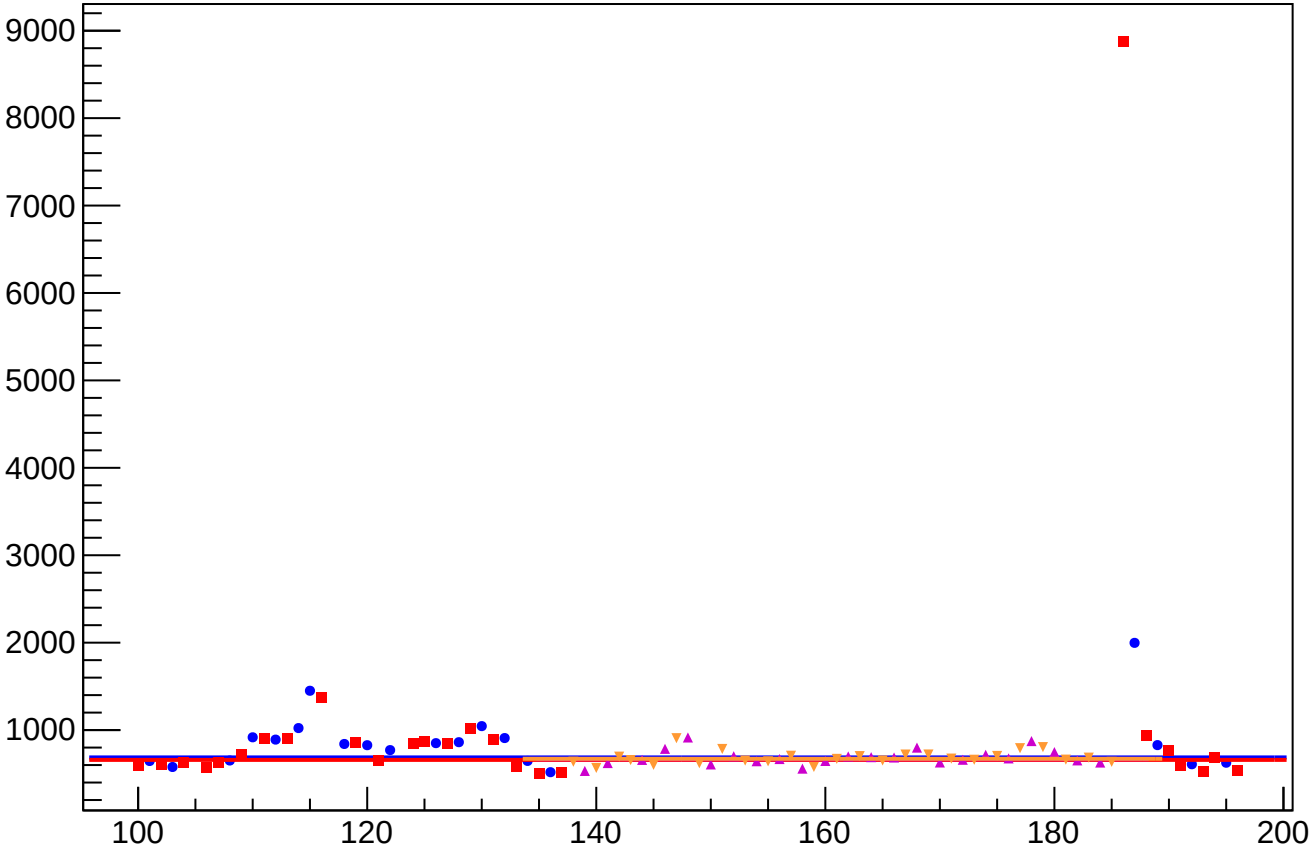
Right: -183.937+/-149.879 $\chi^2$/NDF: 37.4/45

In: -72.877+/-129.306 $\chi^2$/NDF:45.2/42

Out: 44.333+/-121.956 $\chi^2$/NDF:47.4/50

All: -10.846+/-88.721 $\chi^2$/NDF: 93.0/93

asym_sam_15_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 687.342+/-0.160 $\chi^2$/NDF: 988780.9/19

Left Out: 671.849+/-0.109 $\chi^2$/NDF:399160.3/24

Right Out: 659.091+/-0.141 $\chi^2$/NDF: 1828360.5/25

Left In: 667.342+/-0.111 $\chi^2$/NDF:546905.8/22

Left: 669.647+/-0.078 $\chi^2$/NDF: 946903.9/47

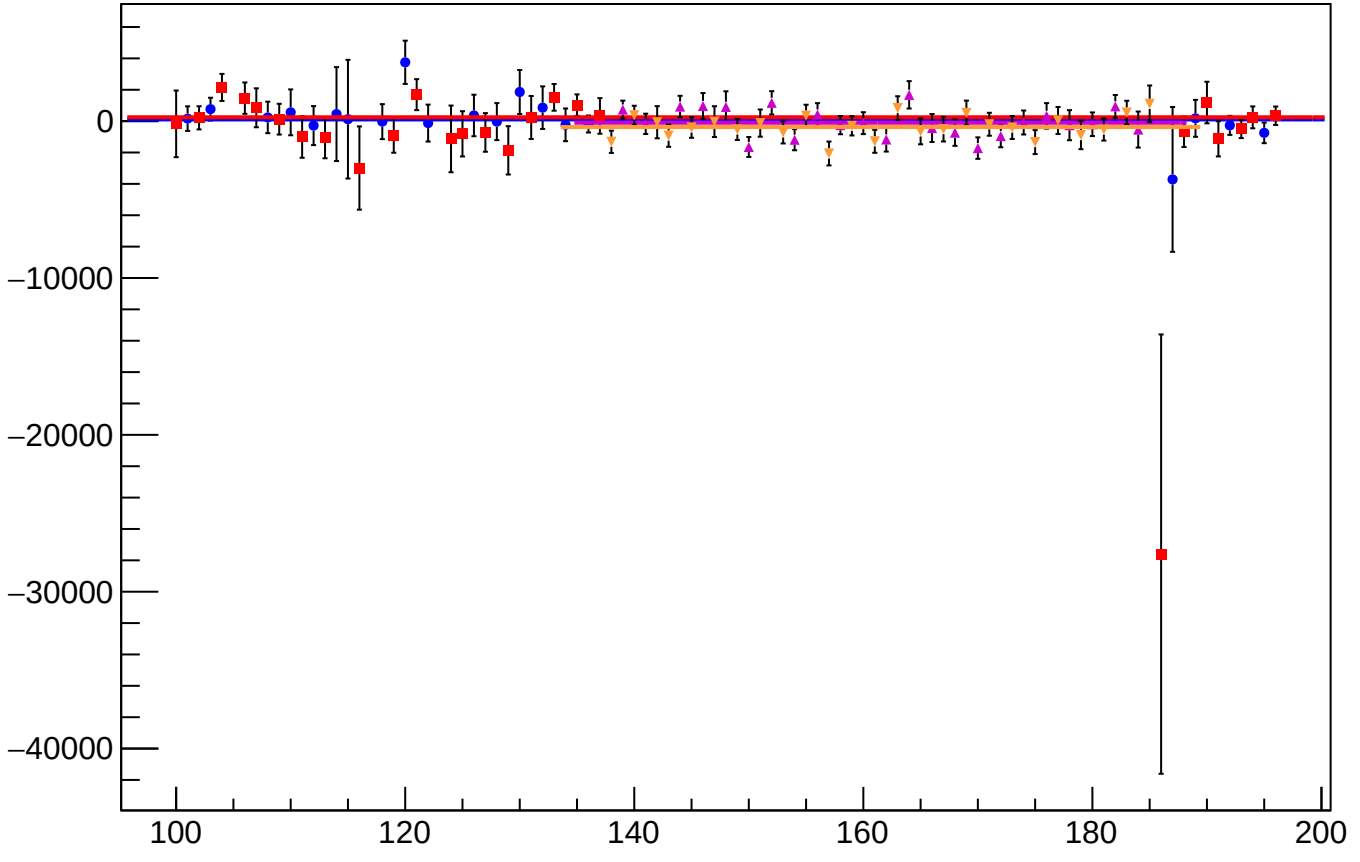
Right: 671.458+/-0.106 $\chi^2$/NDF: 2834631.2/45

In: 673.859+/-0.091 $\chi^2$/NDF:1546197.2/42

Out: 667.100+/-0.086 $\chi^2$/NDF:2232635.7/50

All: 670.282+/-0.063 $\chi^2$/NDF: 3781724.9/93

# asym_sam_15_dd_mean vs Slug, Sign Corrected




Right In: 107.934+/-221.844 $\chi^2$/NDF: 13.2/19

Left Out: -377.221+/-150.952 $\chi^2$/NDF:21.4/24

Right Out: 246.696+/-195.685 $\chi^2$/NDF: 28.7/25

Left In: -103.321+/-154.335 $\chi^2$/NDF:35.5/22

Left: -243.306+/-107.915 $\chi^2$/NDF: 58.5/47

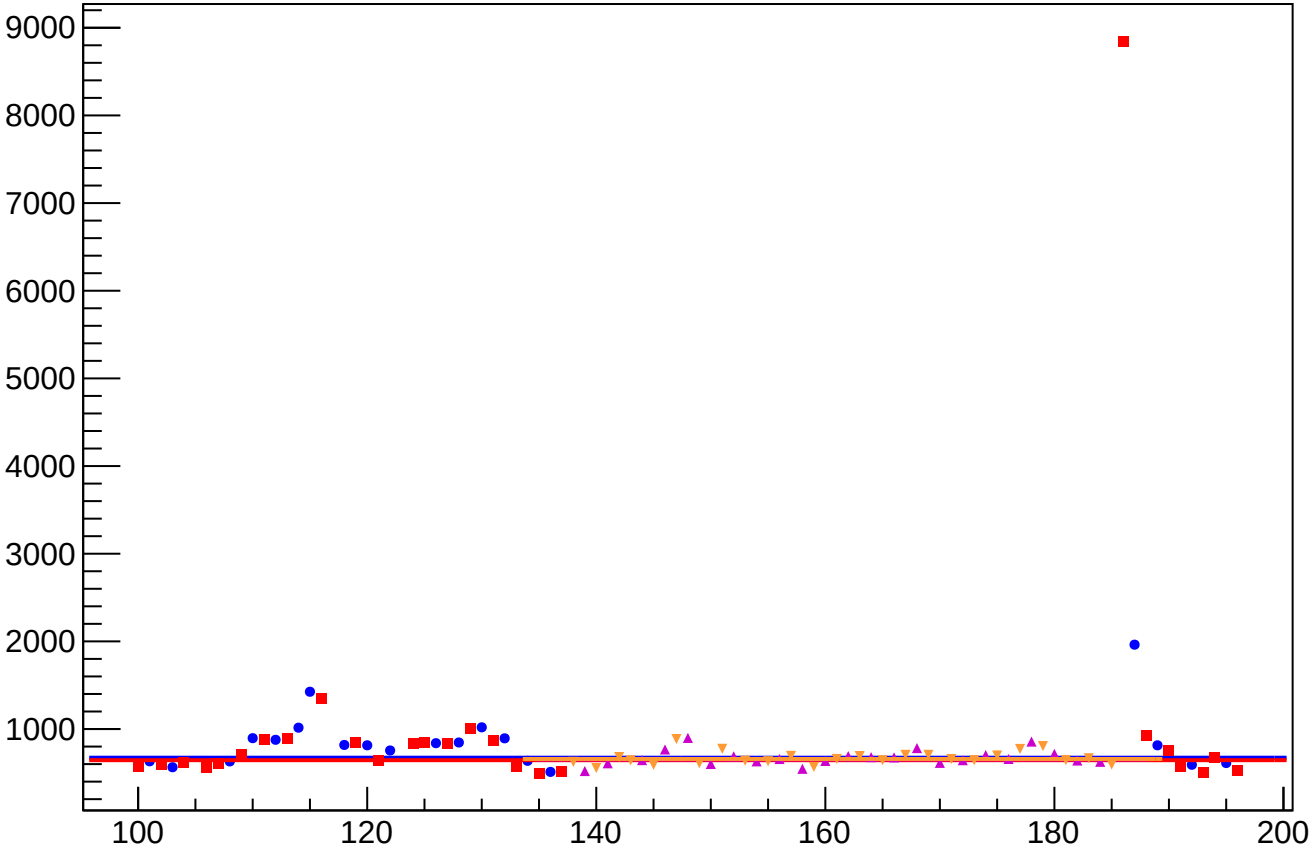
Right: 185.975+/-146.752 $\chi^2$/NDF: 42.1/45

In: -34.422+/-126.692 $\chi^2$/NDF:49.3/42

Out: -144.459+/-119.522 $\chi^2$/NDF:56.5/50

All: -92.643+/-86.939 $\chi^2$/NDF: 106.2/93

# asym_sam_15_dd_rms vs Slug, Sign Corrected




Right In: 672.881+/-0.157 $\chi^2$/NDF: 991801.8/19

Left Out: 658.672+/-0.107 $\chi^2$/NDF:409684.4/24

Right Out: 644.781+/-0.138 $\chi^2$/NDF: 1851214.7/25

Left In: 653.950+/-0.109 $\chi^2$/NDF:542078.1/22

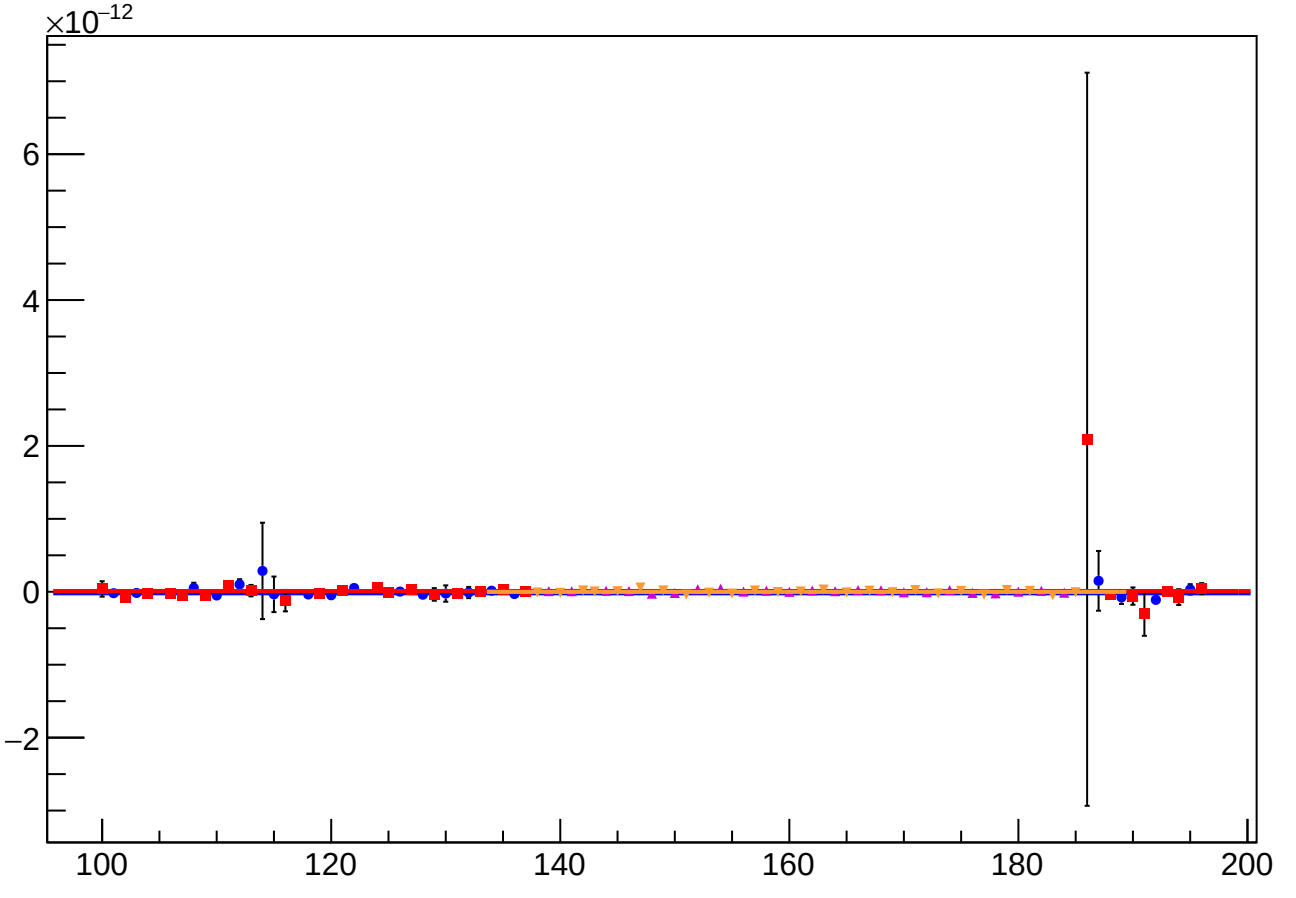
Left: 656.363+/-0.076 $\chi^2$/NDF: 952719.4/47

Right: 657.077+/-0.104 $\chi^2$/NDF: 2861064.2/45

In: 660.124+/-0.090 $\chi^2$/NDF:1543694.3/42

Out: 653.490+/-0.085 $\chi^2$/NDF:2267218.1/50

All: 656.614+/-0.061 $\chi^2$/NDF: 3813814.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:15.6/22

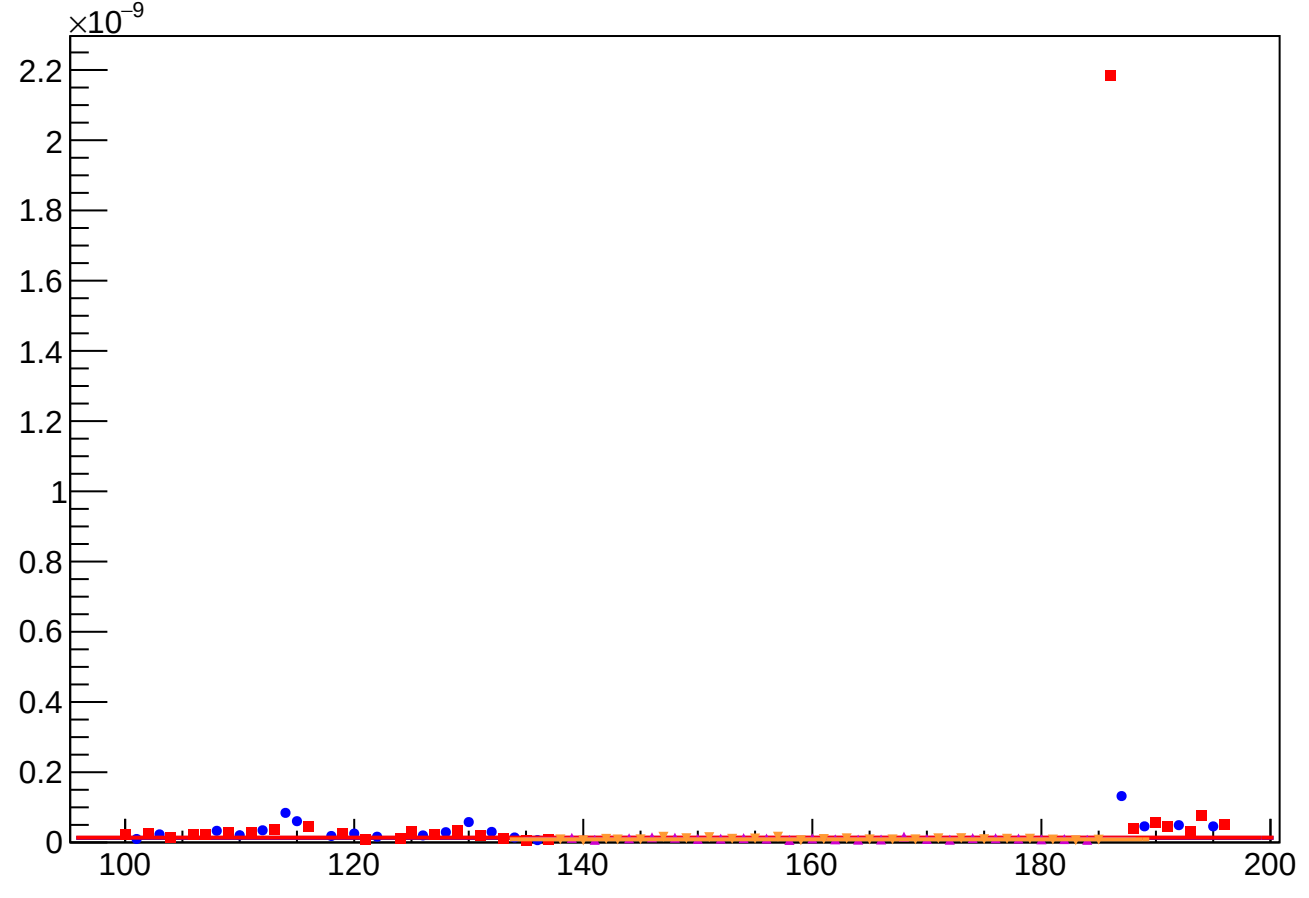
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 41.7/45

In: 0.000+/-0.000 $\chi^2$/NDF:40.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:54.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 94.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3613261.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1037287.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4753167.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:659247.6/22

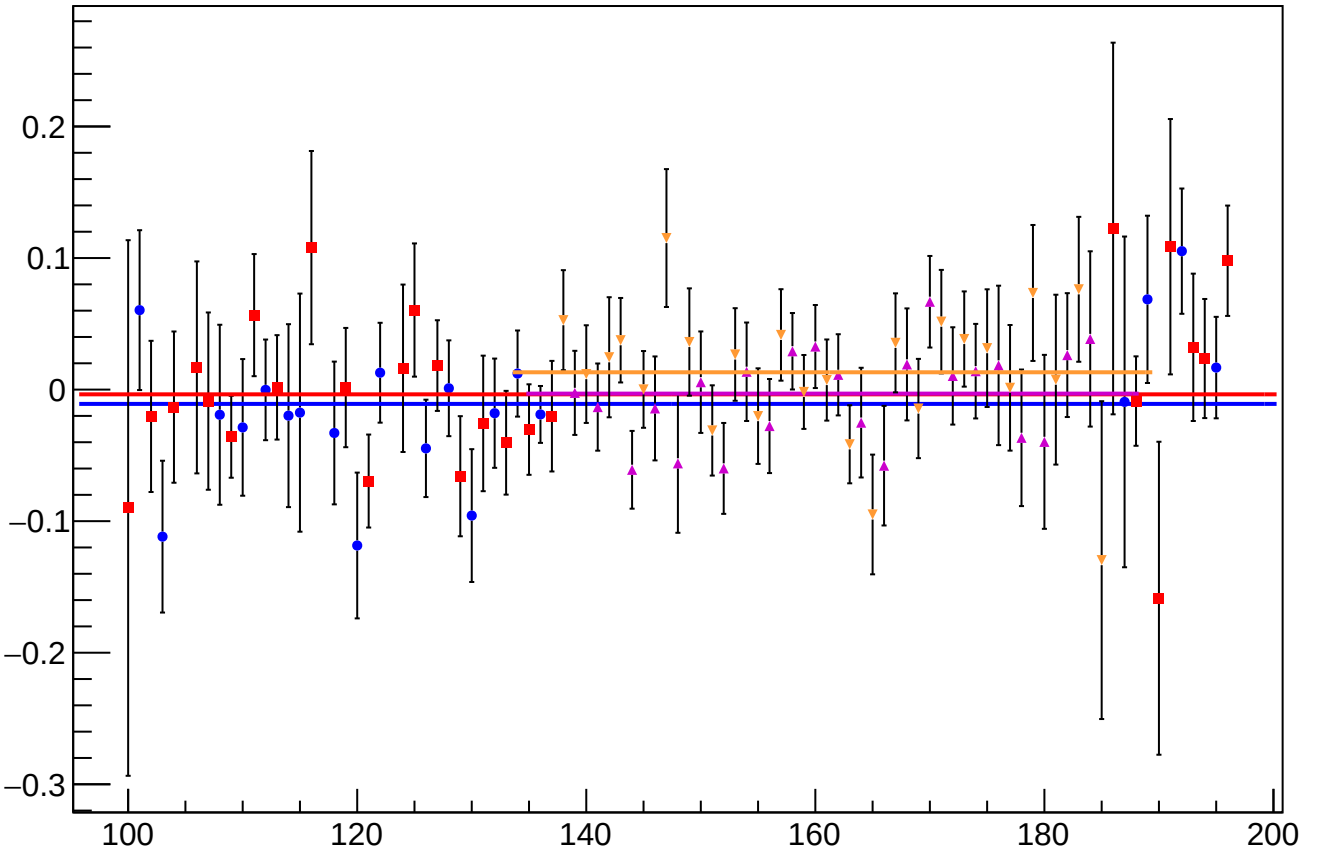
Left: 0.000+/-0.000 $\chi^2$/NDF: 1807691.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8378666.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:4470142.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6449657.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 11006540.4/93




Right In: -0.011+/-0.010 $\chi^2$/NDF: 21.4/19

Left Out: 0.013+/-0.008 $\chi^2$/NDF:25.4/24

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: -0.003+/-0.008 $\chi^2$/NDF:19.2/22

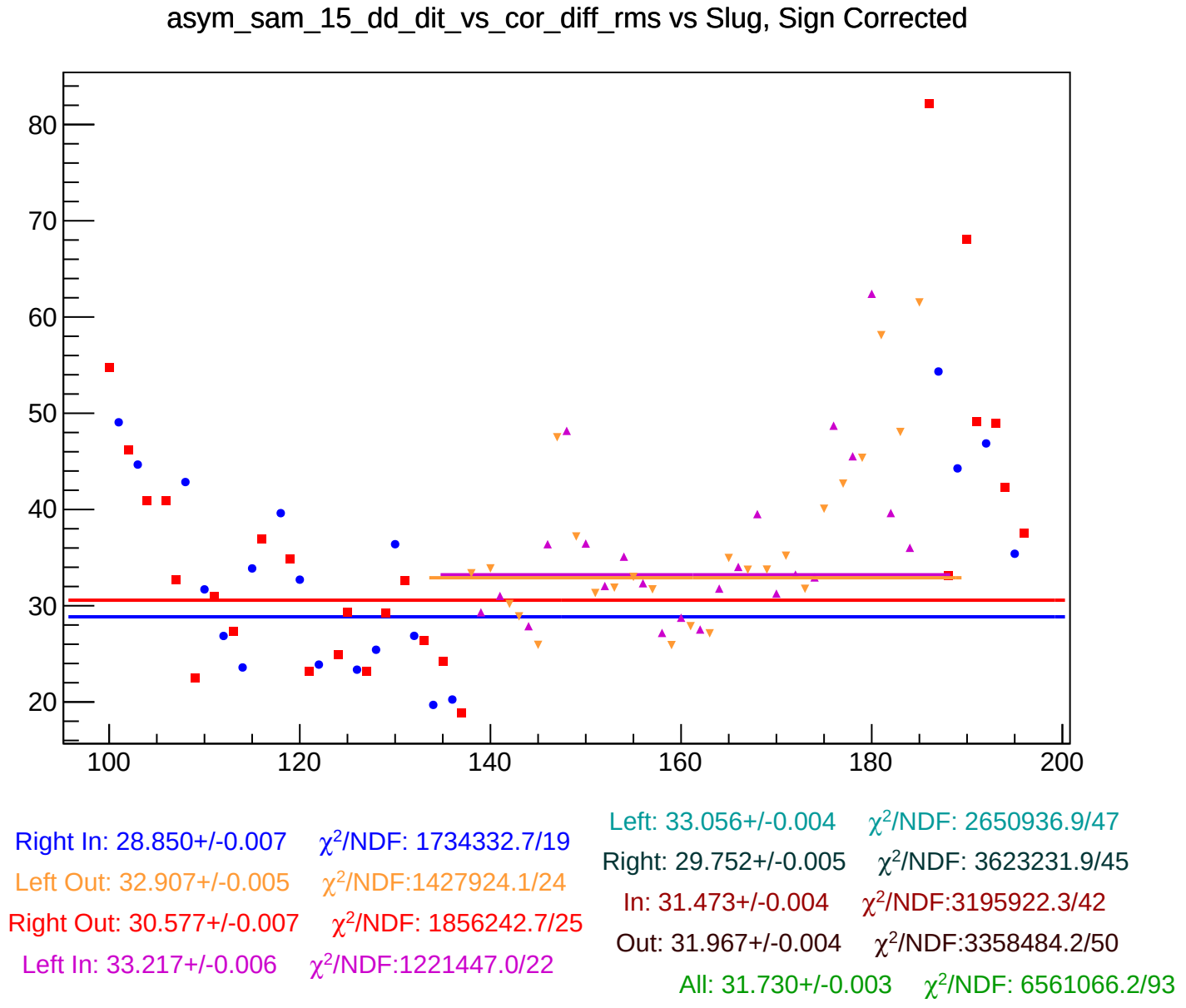
Left: 0.005+/-0.006 $\chi^2$/NDF: 46.7/47

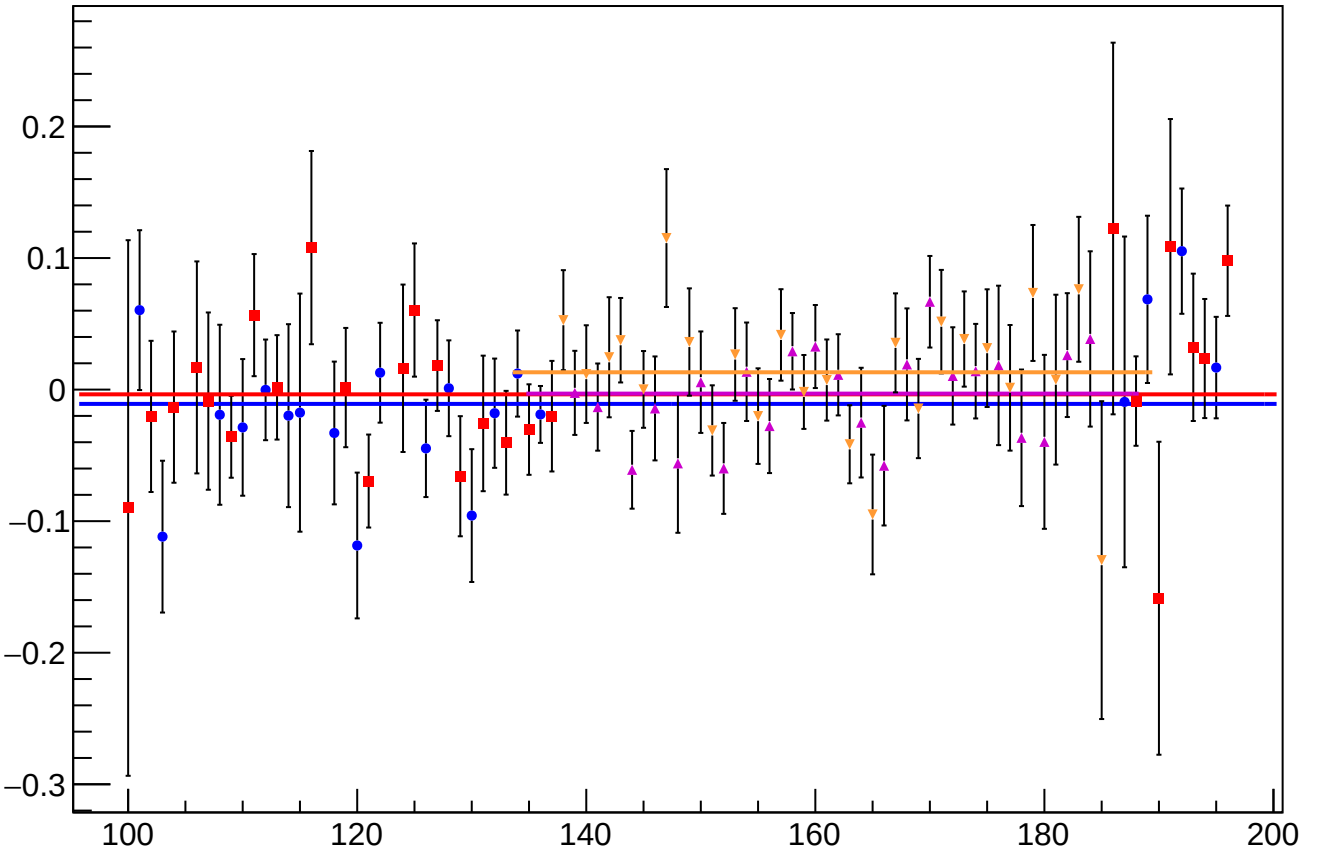
Right: -0.007+/-0.007 $\chi^2$/NDF: 46.9/45

In: -0.006+/-0.006 $\chi^2$/NDF:41.0/42

Out: 0.006+/-0.006 $\chi^2$/NDF:52.5/50

All: 0.000+/-0.004 $\chi^2$/NDF: 95.7/93


asym_sam_15_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected
80
70
60
50
40
30
20
100
120
140
160
180
200
Right In: 28.850+/-0.007 χ²/NDF: 1734332.7/19
Left Out: 32.907+/-0.005 χ²/NDF:1427924.1/24
Right Out: 30.577+/-0.007 χ²/NDF: 1856242.7/25
Left In: 33.217+/-0.006 χ²/NDF:1221447.0/22
Left: 33.056+/-0.004 χ²/NDF: 2650936.9/47
Right: 29.752+/-0.005 χ²/NDF: 3623231.9/45
In: 31.473+/-0.004 χ²/NDF:3195922.3/42
Out: 31.967+/-0.004 χ²/NDF:3358484.2/50
All: 31.730+/-0.003 χ²/NDF: 6561066.2/93




Right In: -0.011+/-0.010 $\chi^2$/NDF: 21.4/19

Left Out: 0.013+/-0.008 $\chi^2$/NDF:25.4/24

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: -0.003+/-0.008 $\chi^2$/NDF:19.2/22

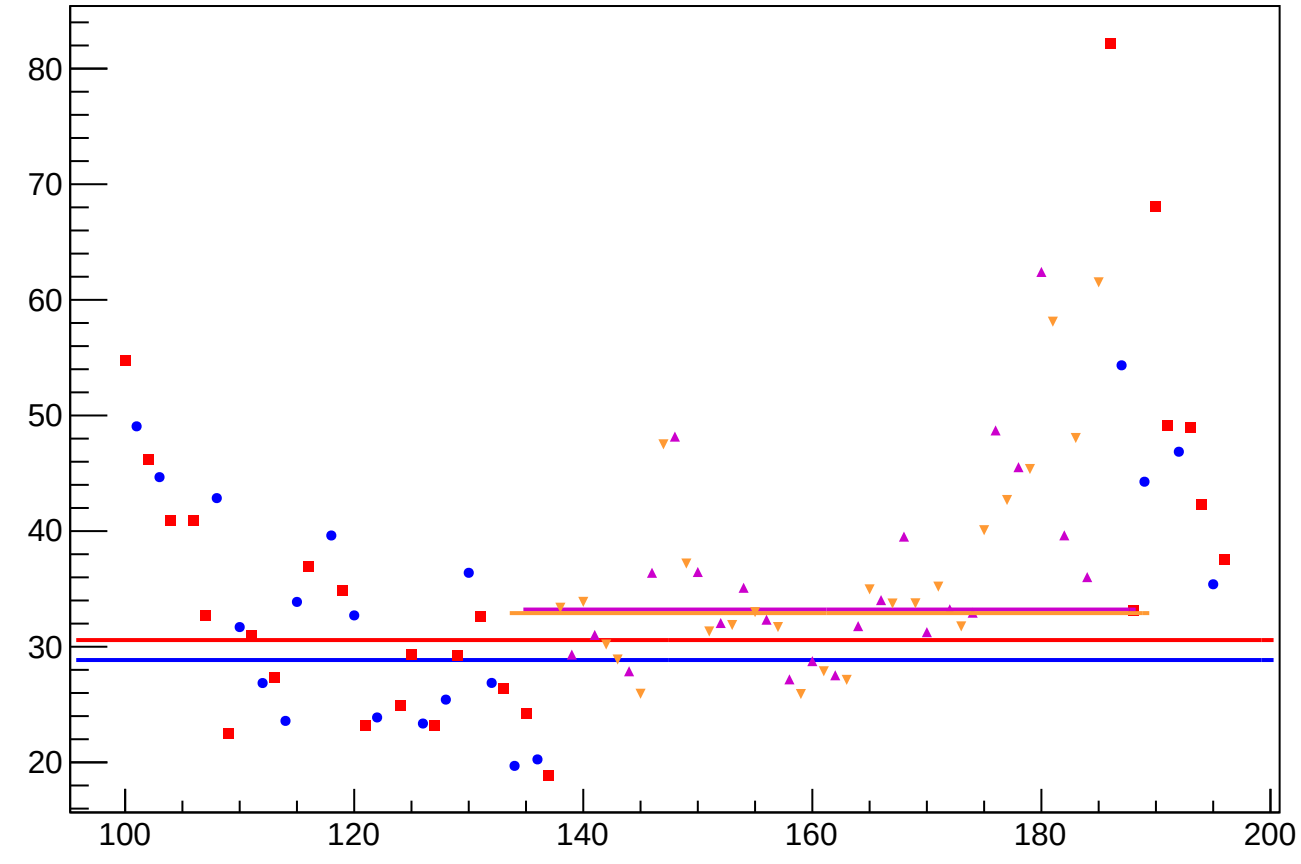
Left: 0.005+/-0.006 $\chi^2$/NDF: 46.7/47

Right: -0.007+/-0.007 $\chi^2$/NDF: 46.9/45

In: -0.006+/-0.006 $\chi^2$/NDF:41.0/42

Out: 0.006+/-0.006 $\chi^2$/NDF:52.5/50

All: 0.000+/-0.004 $\chi^2$/NDF: 95.7/93




Right In: 28.850+/-0.007 $\chi^2$/NDF: 1734332.7/19

Left Out: 32.907+/-0.005 $\chi^2$/NDF:1427924.1/24

Right Out: 30.577+/-0.007 $\chi^2$/NDF: 1856242.7/25

Left In: 33.217+/-0.006 $\chi^2$/NDF:1221447.0/22

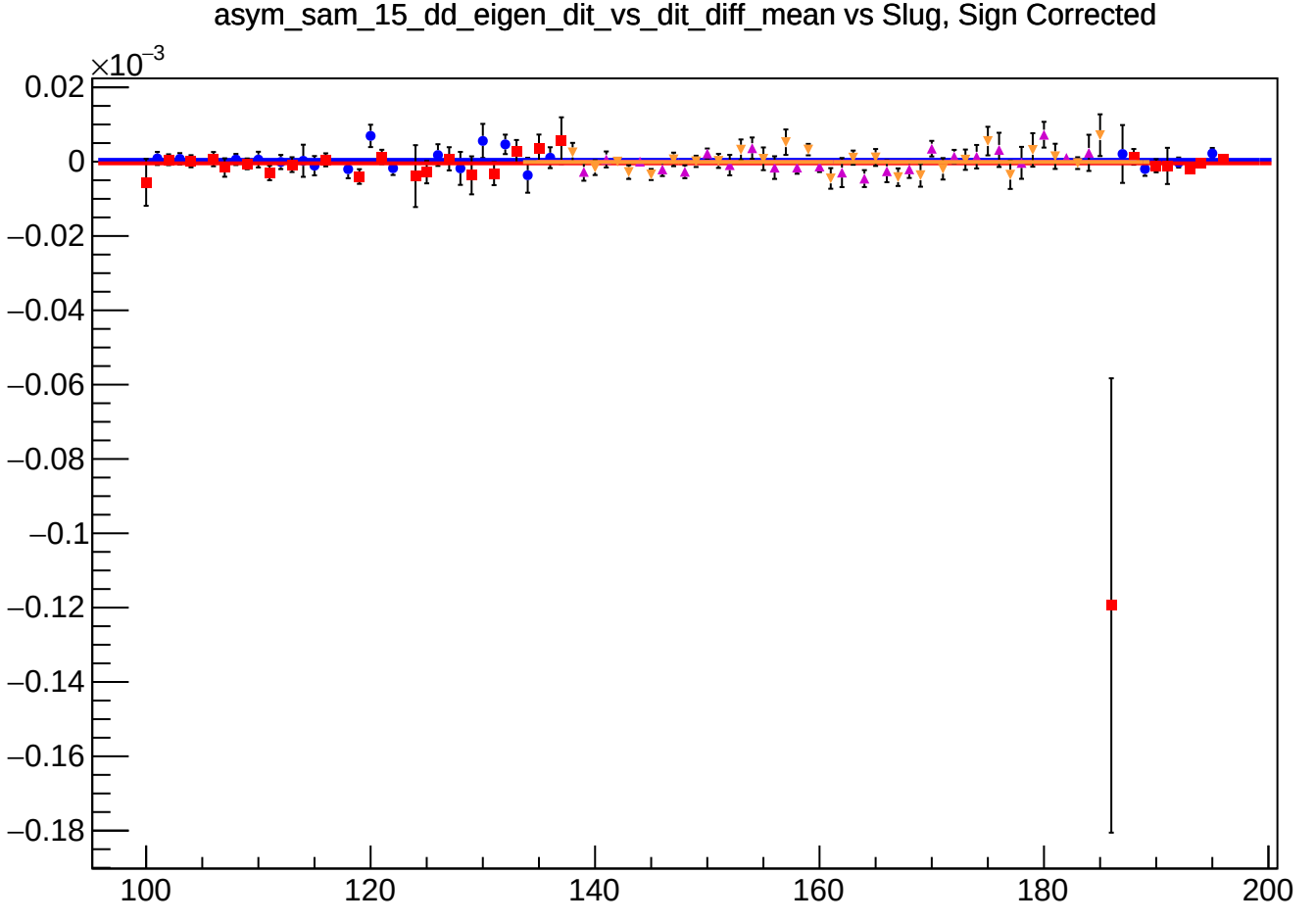
Left: 33.056+/-0.004 $\chi^2$/NDF: 2650936.9/47

Right: 29.752+/-0.005 $\chi^2$/NDF: 3623231.9/45

In: 31.473+/-0.004 $\chi^2$/NDF:3195922.3/42

Out: 31.967+/-0.004 $\chi^2$/NDF:3358484.2/50

All: 31.730+/-0.003 $\chi^2$/NDF: 6561066.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.2/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.0/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 58.0/47

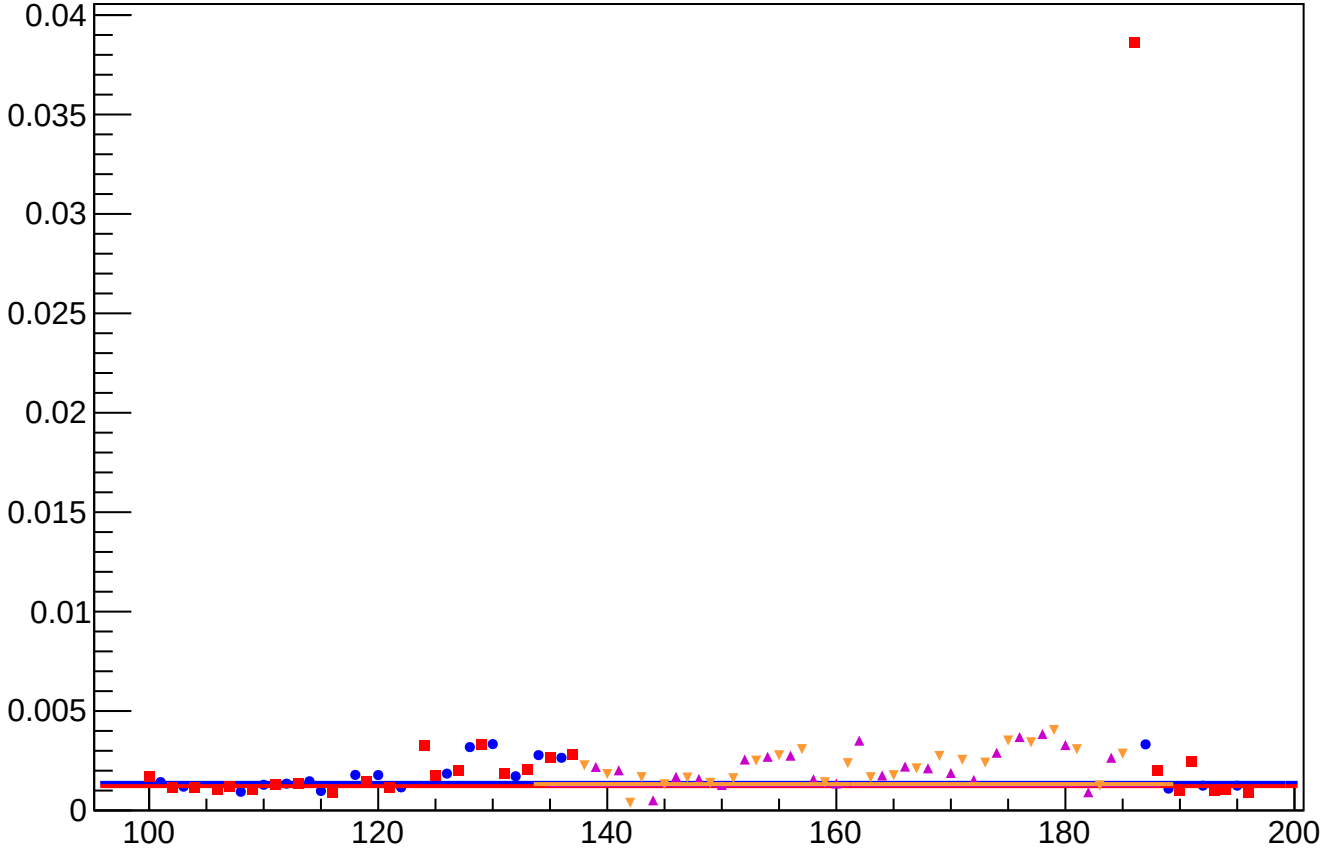
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:51.9/50

All: -0.000+/-0.000 $\chi^2$/NDF: 97.0/93

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1947417.8/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:11159347.0/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 2982597.8/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:9878422.3/22

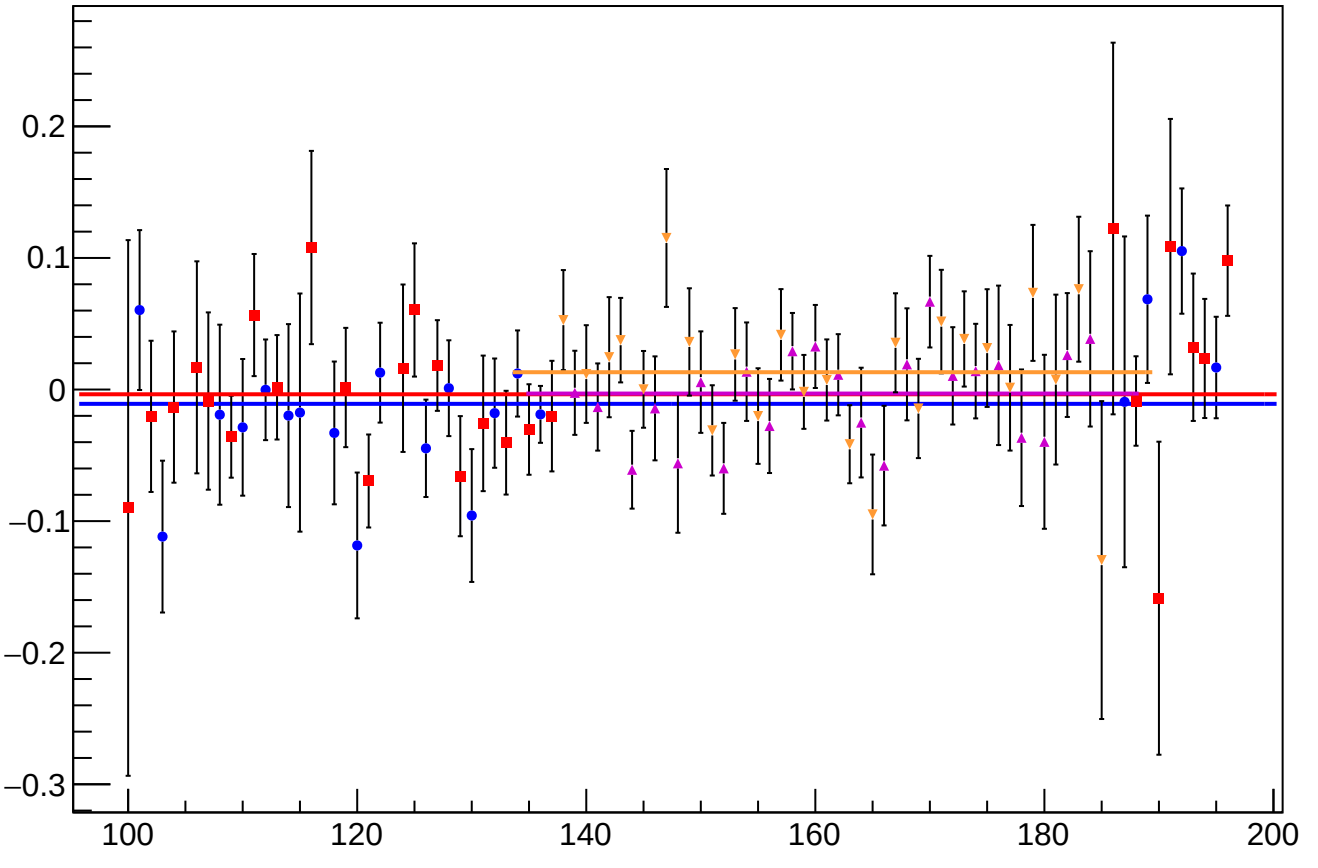
Left: 0.001+/-0.000 $\chi^2$/NDF: 21058948.3/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 5072897.2/45

In: 0.001+/-0.000 $\chi^2$/NDF:11898689.3/42

Out: 0.001+/-0.000 $\chi^2$/NDF:14217345.9/50

All: 0.001+/-0.000 $\chi^2$/NDF: 26133551.3/93




Right In: -0.011+/-0.010 $\chi^2$/NDF: 21.4/19

Left Out: 0.013+/-0.008 $\chi^2$/NDF:25.4/24

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: -0.003+/-0.008 $\chi^2$/NDF:19.2/22

Left: 0.005+/-0.006 $\chi^2$/NDF: 46.7/47

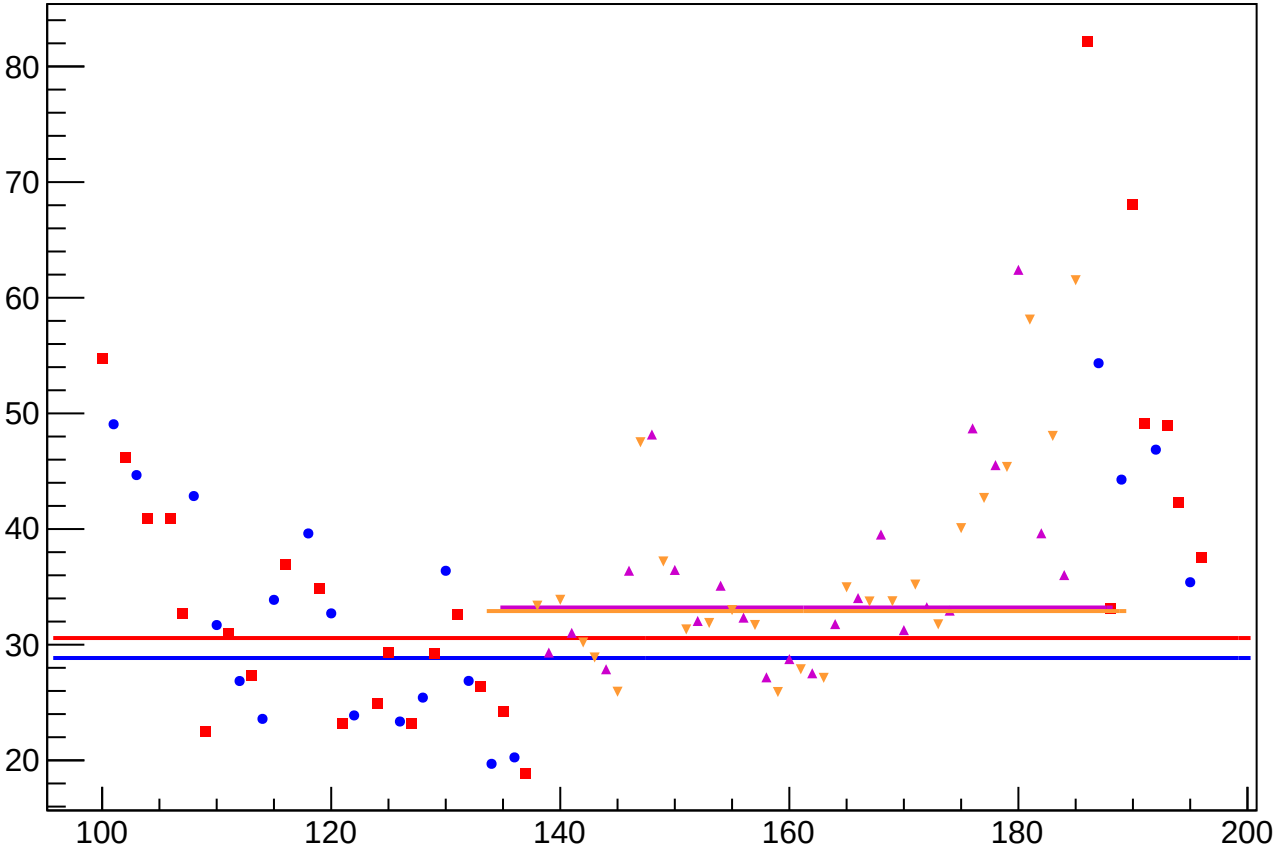
Right: -0.007+/-0.007 $\chi^2$/NDF: 46.9/45

In: -0.006+/-0.006 $\chi^2$/NDF:41.0/42

Out: 0.006+/-0.006 $\chi^2$/NDF:52.5/50

All: 0.000+/-0.004 $\chi^2$/NDF: 95.7/93

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.849+/-0.007 $\chi^2$/NDF: 1734448.3/19

Left Out: 32.907+/-0.005 $\chi^2$/NDF:1427993.7/24

Right Out: 30.575+/-0.007 $\chi^2$/NDF: 1856452.8/25

Left In: 33.217+/-0.006 $\chi^2$/NDF:1221516.5/22

Left: 33.056+/-0.004 $\chi^2$/NDF: 2651077.1/47

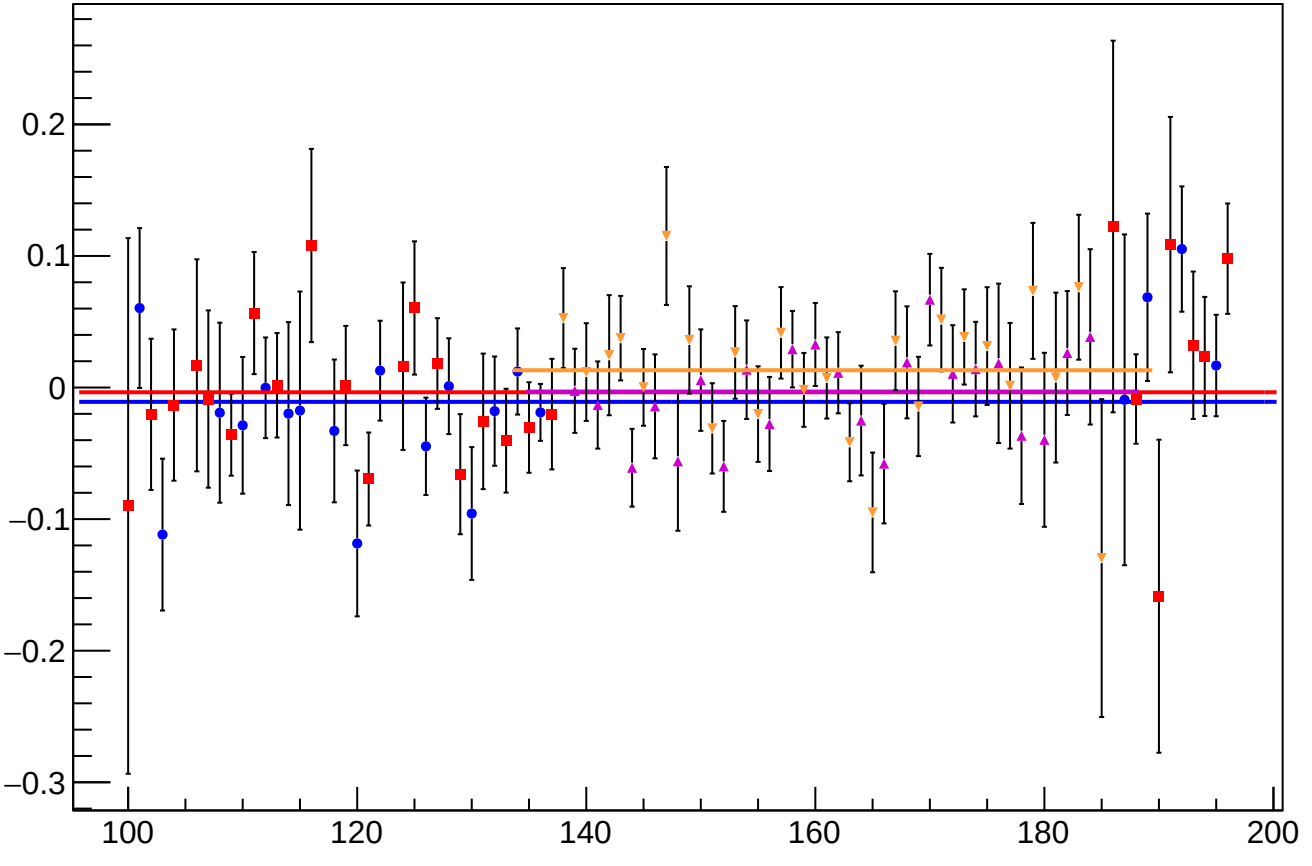
Right: 29.751+/-0.005 $\chi^2$/NDF: 3623547.2/45

In: 31.473+/-0.004 $\chi^2$/NDF:3196210.1/42

Out: 31.967+/-0.004 $\chi^2$/NDF:3358836.8/50

All: 31.730+/-0.003 $\chi^2$/NDF: 6561702.1/93

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.011+/-0.010 $\chi^2$/NDF: 21.4/19

Left Out: 0.013+/-0.008 $\chi^2$/NDF:25.4/24

Right Out: -0.004+/-0.009 $\chi^2$/NDF: 25.2/25

Left In: -0.003+/-0.008 $\chi^2$/NDF:19.2/22

Left: 0.005+/-0.006 $\chi^2$/NDF: 46.7/47

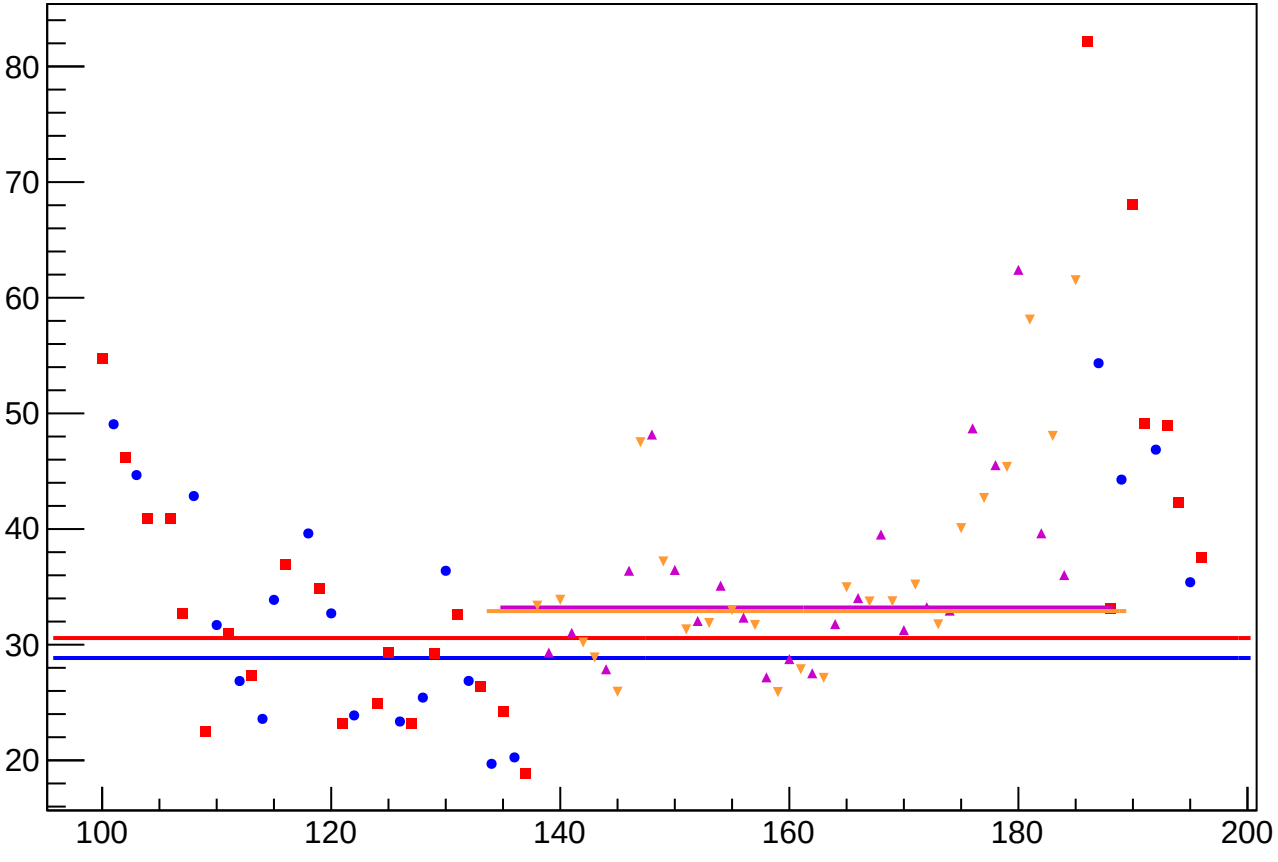
Right: -0.007+/-0.007 $\chi^2$/NDF: 46.9/45

In: -0.006+/-0.006 $\chi^2$/NDF:41.0/42

Out: 0.006+/-0.006 $\chi^2$/NDF:52.5/50

All: 0.000+/-0.004 $\chi^2$/NDF: 95.7/93

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 28.849+/-0.007 $\chi^2$/NDF: 1734448.3/19

Left Out: 32.907+/-0.005 $\chi^2$/NDF:1427993.7/24

Right Out: 30.575+/-0.007 $\chi^2$/NDF: 1856452.8/25

Left In: 33.217+/-0.006 $\chi^2$/NDF:1221516.5/22

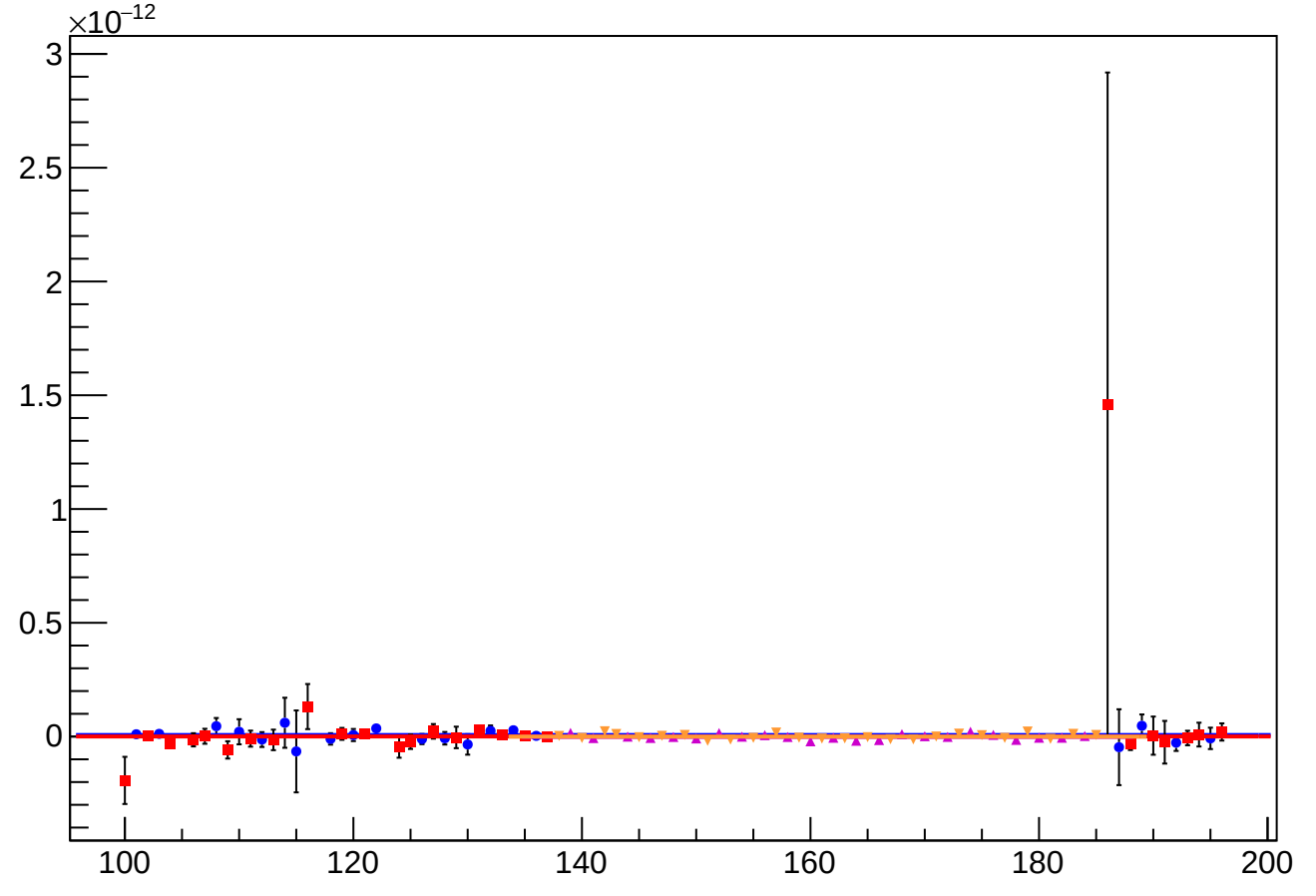
Left: 33.056+/-0.004 $\chi^2$/NDF: 2651077.1/47

Right: 29.751+/-0.005 $\chi^2$/NDF: 3623547.2/45

In: 31.473+/-0.004 $\chi^2$/NDF:3196210.1/42

Out: 31.967+/-0.004 $\chi^2$/NDF:3358836.8/50

All: 31.730+/-0.003 $\chi^2$/NDF: 6561702.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 10.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:31.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 18.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:25.3/22

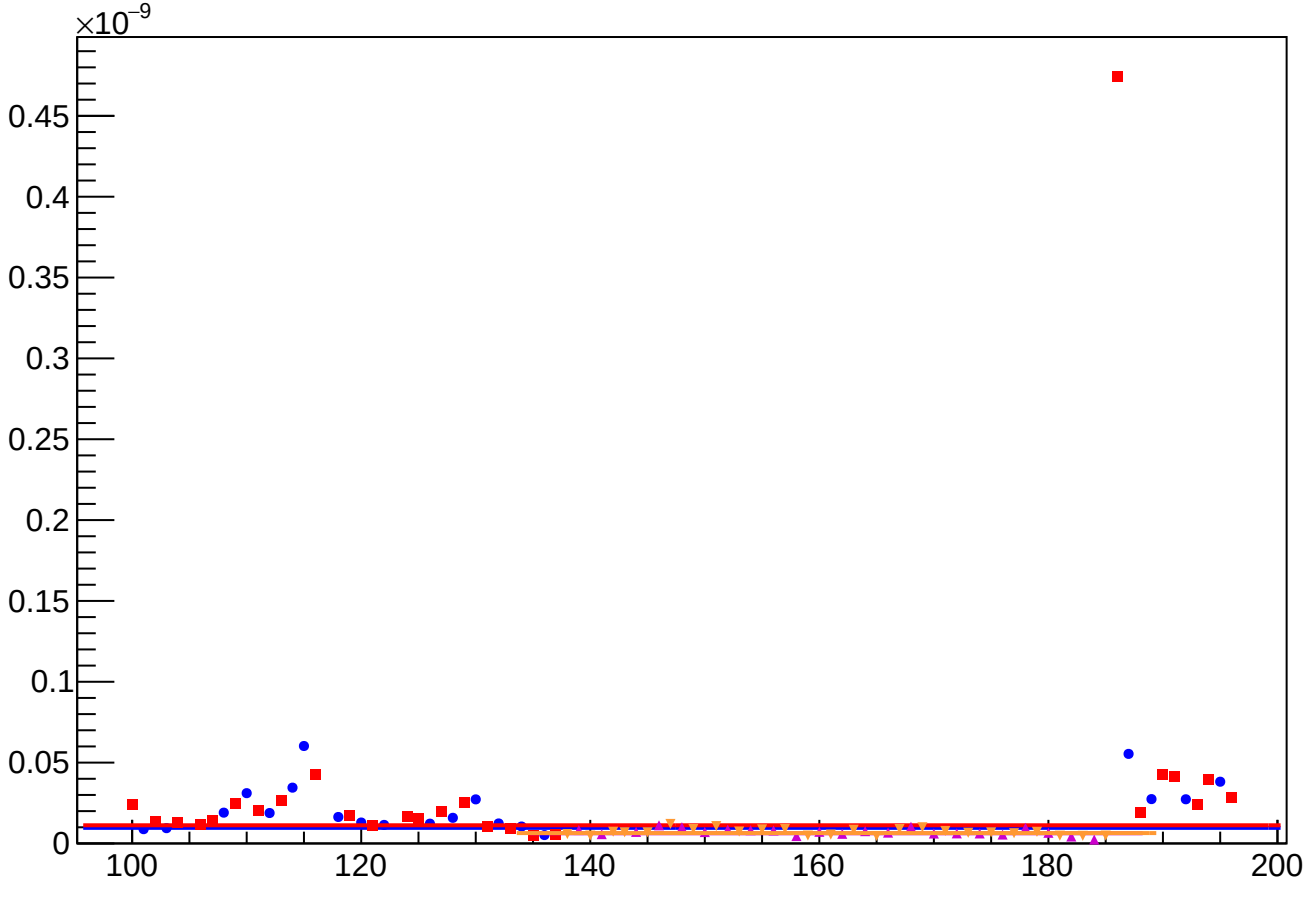
Left: -0.000+/-0.000 $\chi^2$/NDF: 56.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 29.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:38.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:49.4/50

All: -0.000+/-0.000 $\chi^2$/NDF: 87.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4071503.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1879116.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4988770.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2127144.3/22

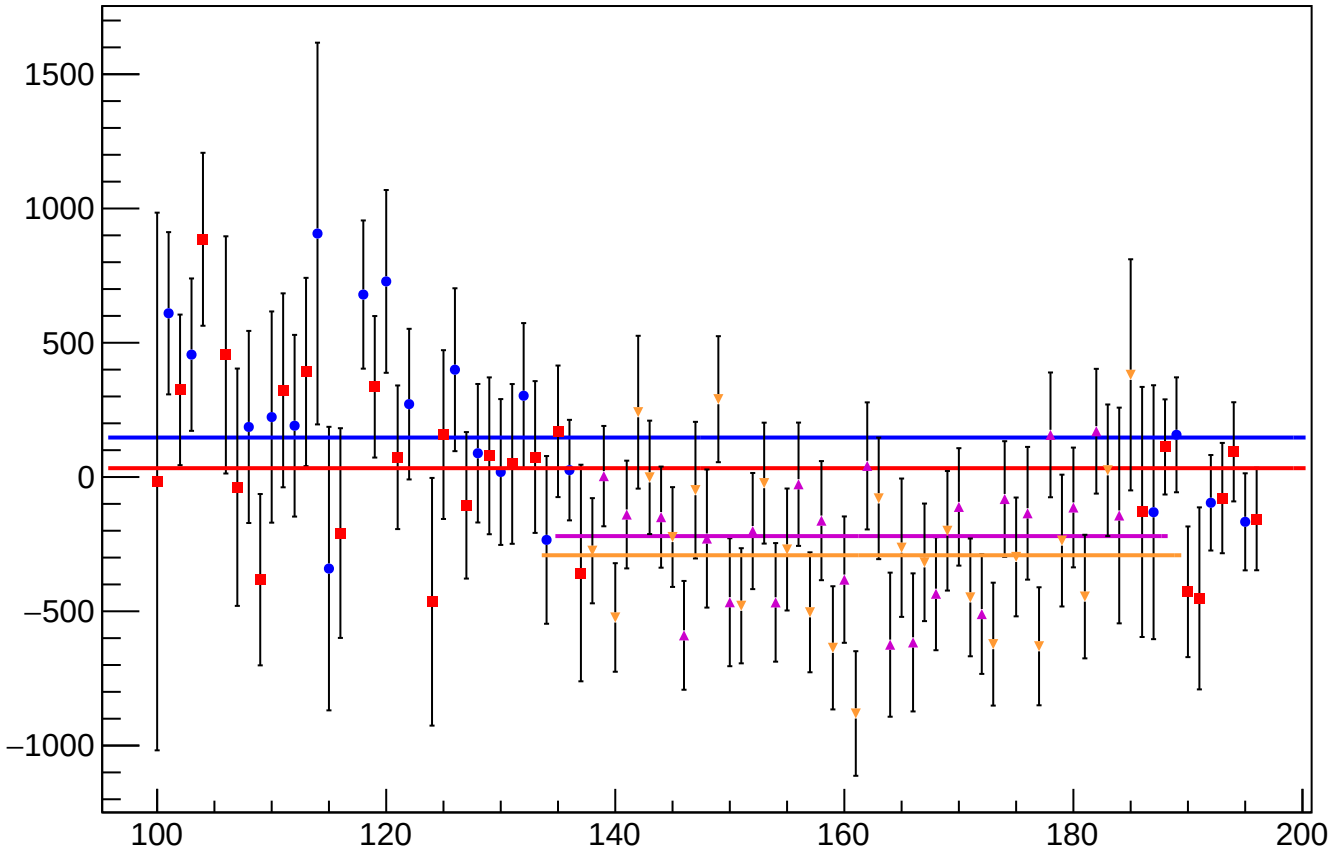
Left: 0.000+/-0.000 $\chi^2$/NDF: 4010035.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9177919.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:7144757.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8679864.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 15842565.0/93




Right In: 147.068+/-61.209 $\chi^2$/NDF: 20.9/19

Left Out: -291.313+/-45.614 $\chi^2$/NDF:36.4/24

Right Out: 32.965+/-55.611 $\chi^2$/NDF: 24.4/25

Left In: -219.974+/-47.146 $\chi^2$/NDF:23.7/22

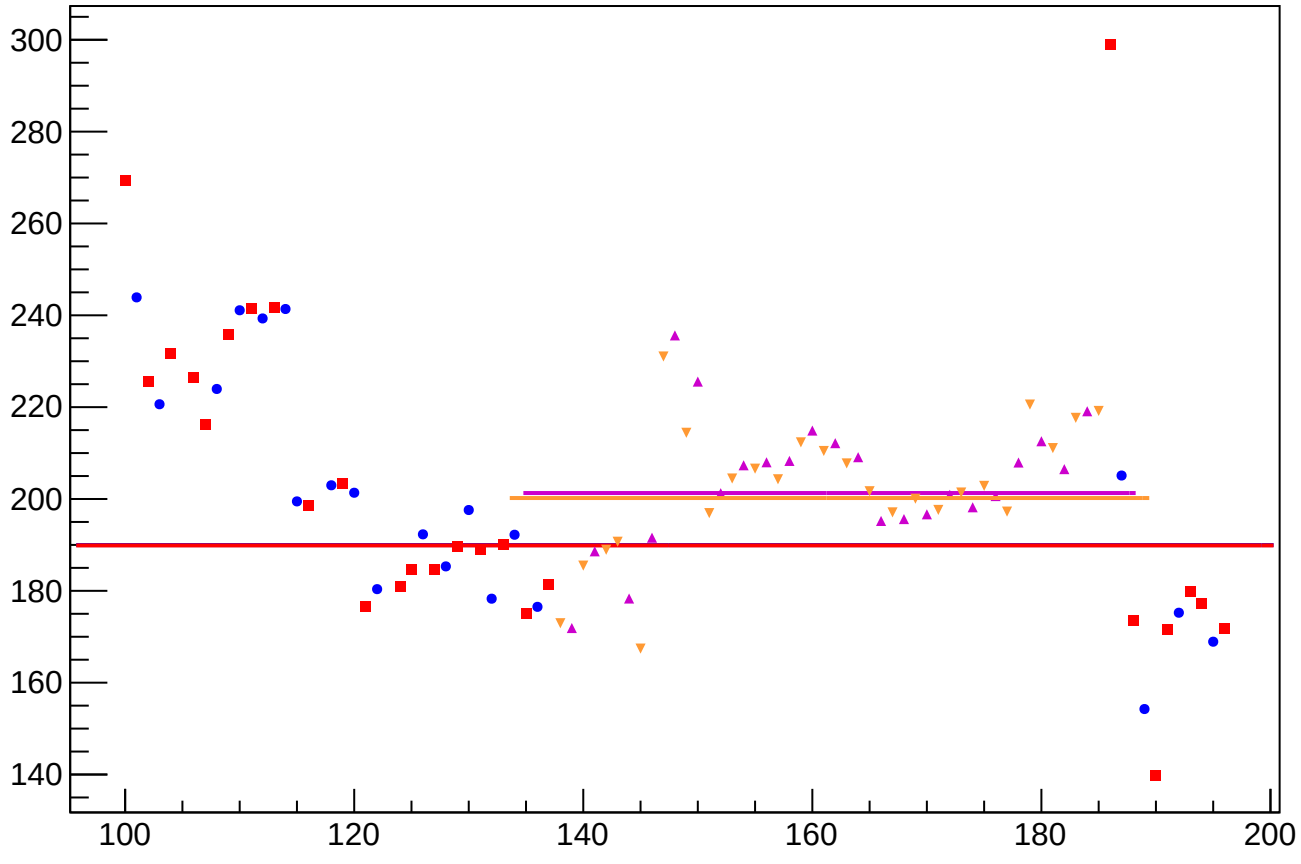
Left: -256.821+/-32.782 $\chi^2$/NDF: 61.3/47

Right: 84.561+/-41.160 $\chi^2$/NDF: 47.1/45

In: -83.302+/-37.351 $\chi^2$/NDF:67.2/42

Out: -160.891+/-35.268 $\chi^2$/NDF:81.0/50

All: -124.320+/-25.643 $\chi^2$/NDF: 150.5/93




Right In: 189.963+/-0.043 $\chi^2$/NDF: 316768.6/19

Left Out: 200.210+/-0.032 $\chi^2$/NDF:204393.9/24

Right Out: 189.891+/-0.039 $\chi^2$/NDF: 496060.7/25

Left In: 201.297+/-0.033 $\chi^2$/NDF:181646.8/22

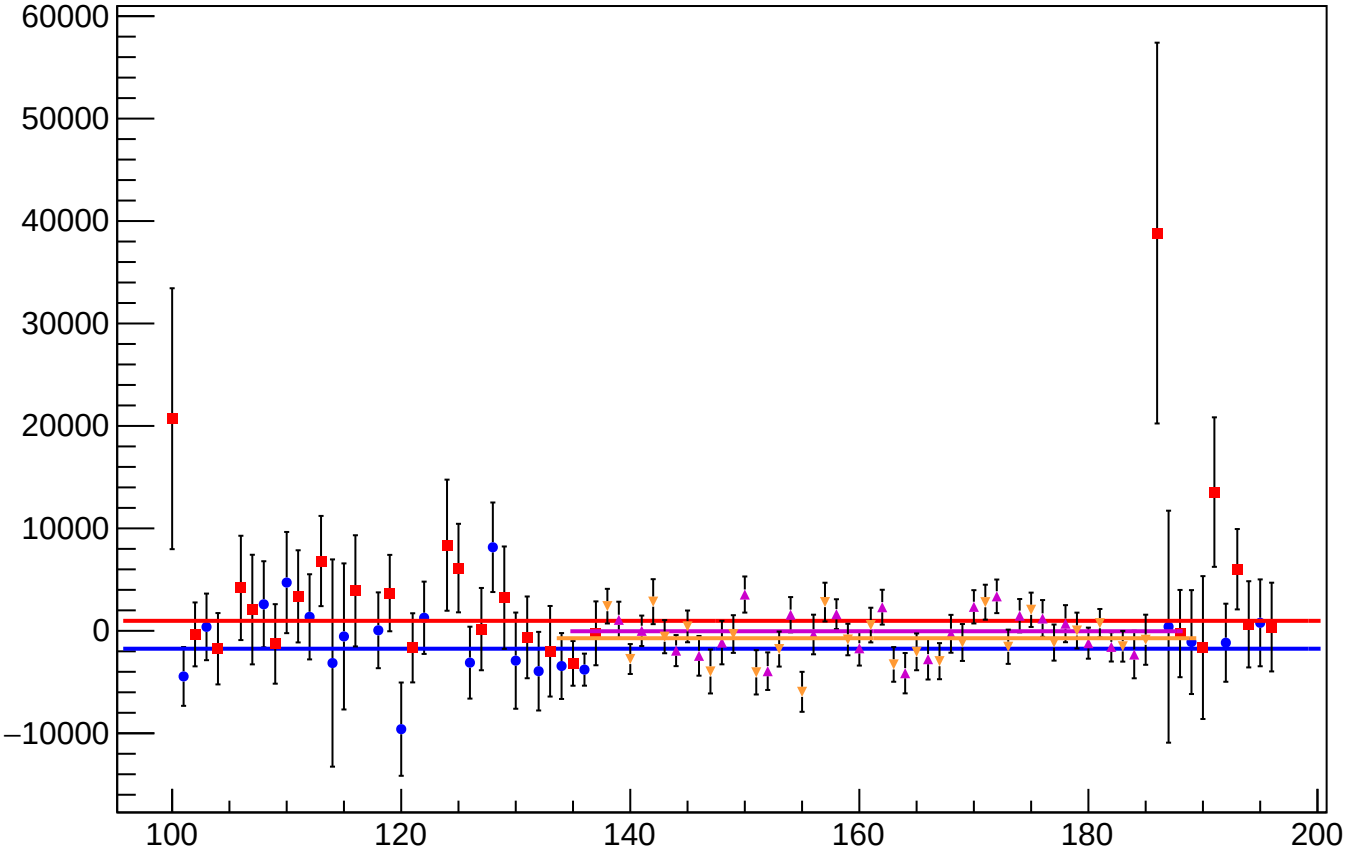
Left: 200.736+/-0.023 $\chi^2$/NDF: 386590.4/47

Right: 189.923+/-0.029 $\chi^2$/NDF: 812830.8/45

In: 197.077+/-0.026 $\chi^2$/NDF:541462.3/42

Out: 196.060+/-0.025 $\chi^2$/NDF:741619.8/50

All: 196.539+/-0.018 $\chi^2$/NDF: 1283865.9/93




Right In: -1745.919+/-809.473 $\chi^2$/NDF: 16.7/19

Left Out: -720.700+/-346.376 $\chi^2$/NDF:38.3/24

Right Out: 975.751+/-815.000 $\chi^2$/NDF: 23.8/25

Left In: -39.277+/-359.265 $\chi^2$/NDF:34.4/22

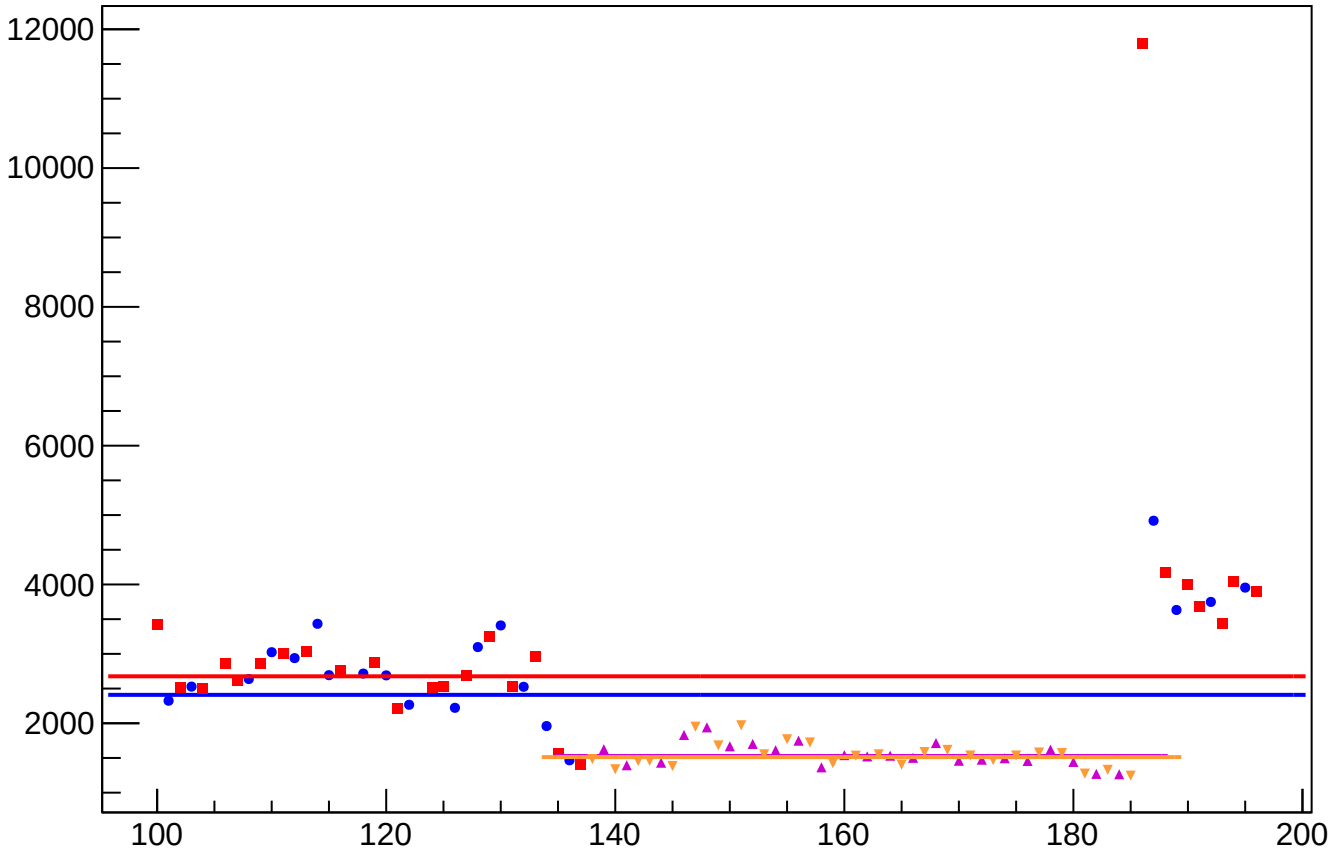
Left: -392.431+/-249.357 $\chi^2$/NDF: 74.6/47

Right: -394.345+/-574.328 $\chi^2$/NDF: 46.2/45

In: -320.131+/-328.376 $\chi^2$/NDF:54.9/42

Out: -461.158+/-318.780 $\chi^2$/NDF:65.8/50

All: -392.735+/-228.729 $\chi^2$/NDF: 120.7/93




Right In: 2409.488+/-0.572 $\chi^2$/NDF: 1763719.9/19

Left Out: 1512.365+/-0.245 $\chi^2$/NDF:442558.0/24

Right Out: 2676.661+/-0.576 $\chi^2$/NDF: 2273844.4/25

Left In: 1527.964+/-0.254 $\chi^2$/NDF:373844.4/22

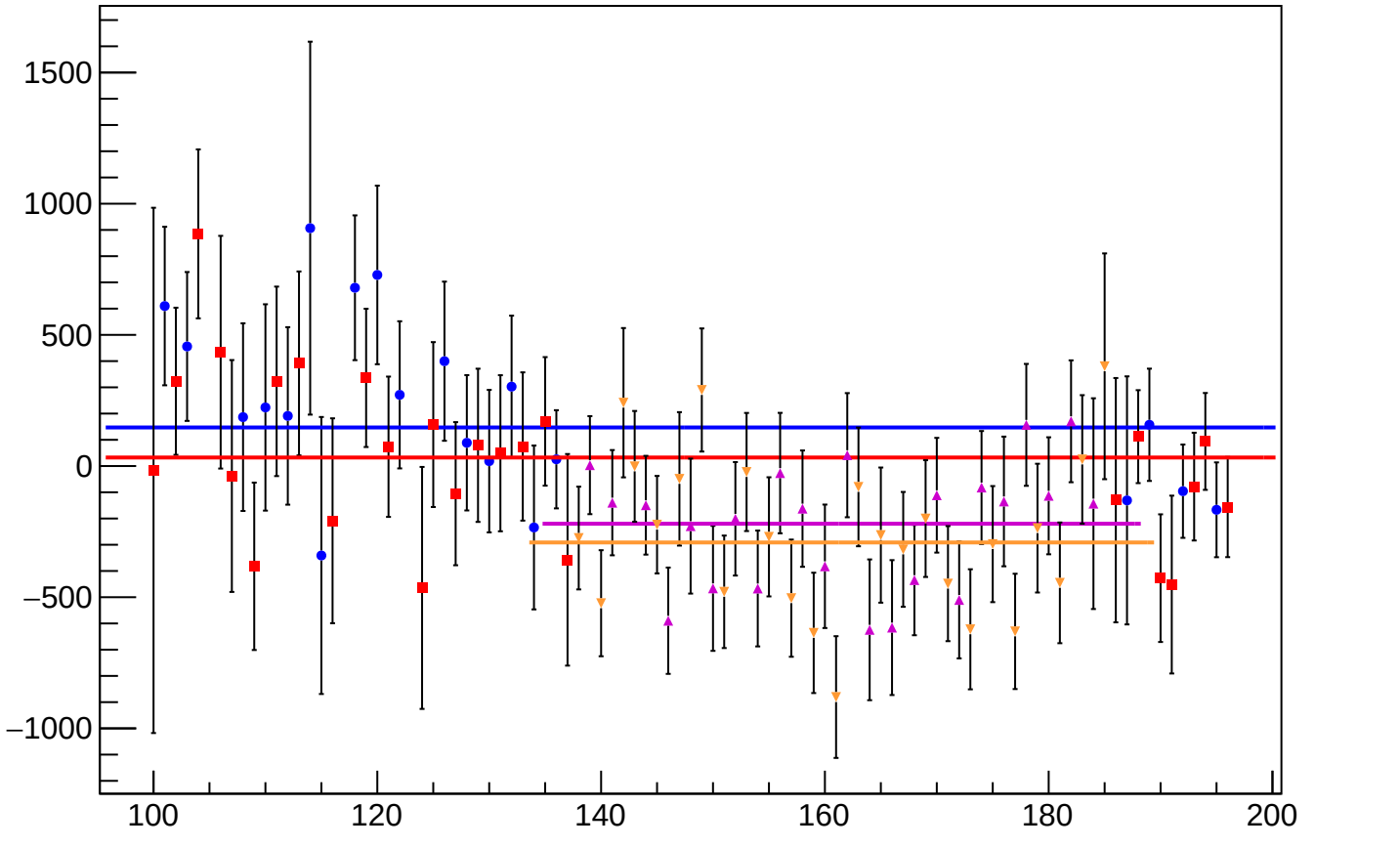
Left: 1519.879+/-0.176 $\chi^2$/NDF: 818356.6/47

Right: 2542.165+/-0.406 $\chi^2$/NDF: 4145761.1/45

In: 1673.032+/-0.232 $\chi^2$/NDF:4119119.5/42

Out: 1690.492+/-0.225 $\chi^2$/NDF:6173639.2/50

All: 1682.021+/-0.162 $\chi^2$/NDF: 10295669.6/9




Right In: 147.069+/-61.209 $\chi^2$/NDF: 20.9/19

Left Out: -291.316+/-45.614 $\chi^2$/NDF:36.4/24

Right Out: 32.508+/-55.615 $\chi^2$/NDF: 24.2/25

Left In: -219.983+/-47.146 $\chi^2$/NDF:23.7/22

Left: -256.827+/-32.782 $\chi^2$/NDF: 61.3/47

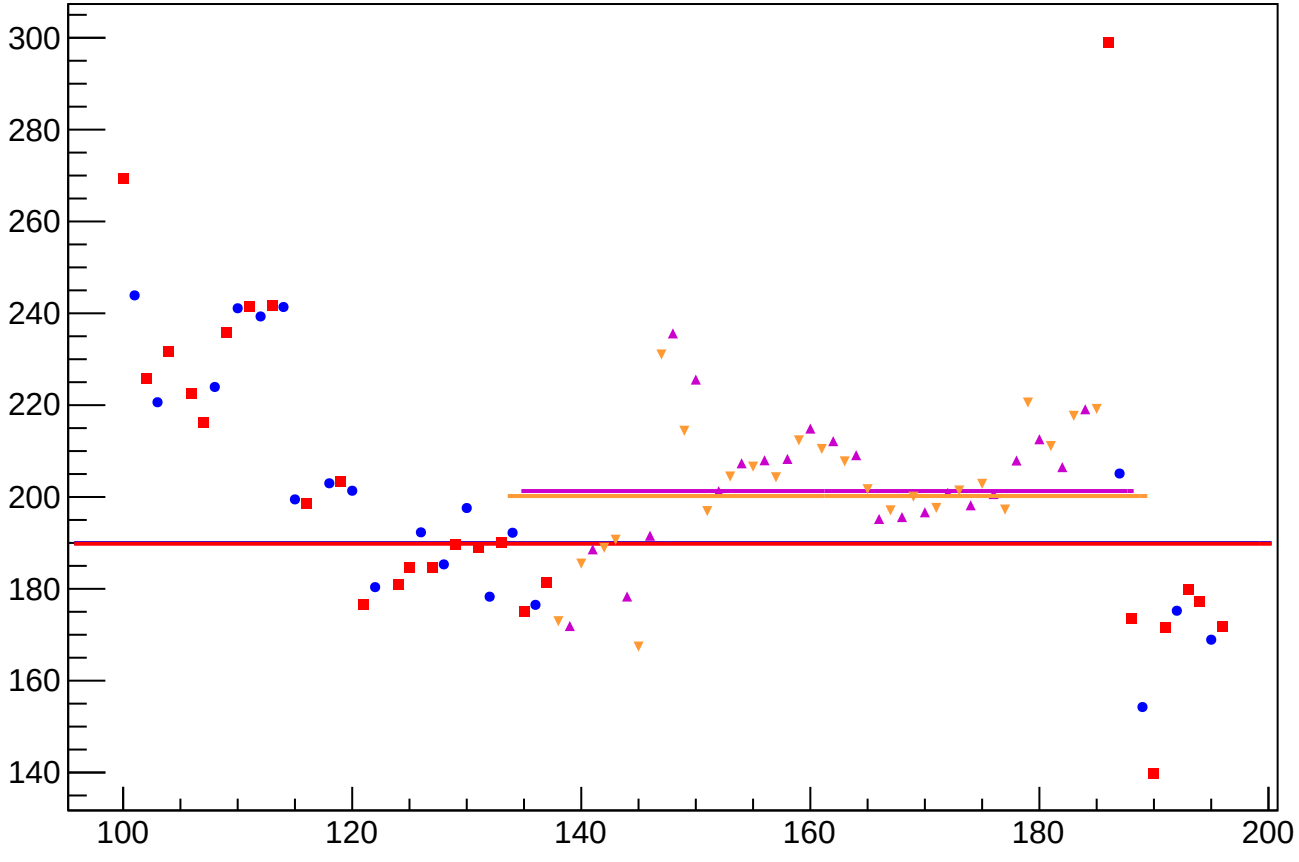
Right: 84.315+/-41.162 $\chi^2$/NDF: 47.0/45

In: -83.307+/-37.351 $\chi^2$/NDF:67.2/42

Out: -161.088+/-35.269 $\chi^2$/NDF:80.9/50

All: -124.426+/-25.643 $\chi^2$/NDF: 150.3/93

# cor_asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 189.963+/-0.043 $\chi^2$/NDF: 316769.0/19

Left Out: 200.210+/-0.032 $\chi^2$/NDF:204394.0/24

Right Out: 189.826+/-0.039 $\chi^2$/NDF: 493277.4/25

Left In: 201.297+/-0.033 $\chi^2$/NDF:181646.8/22

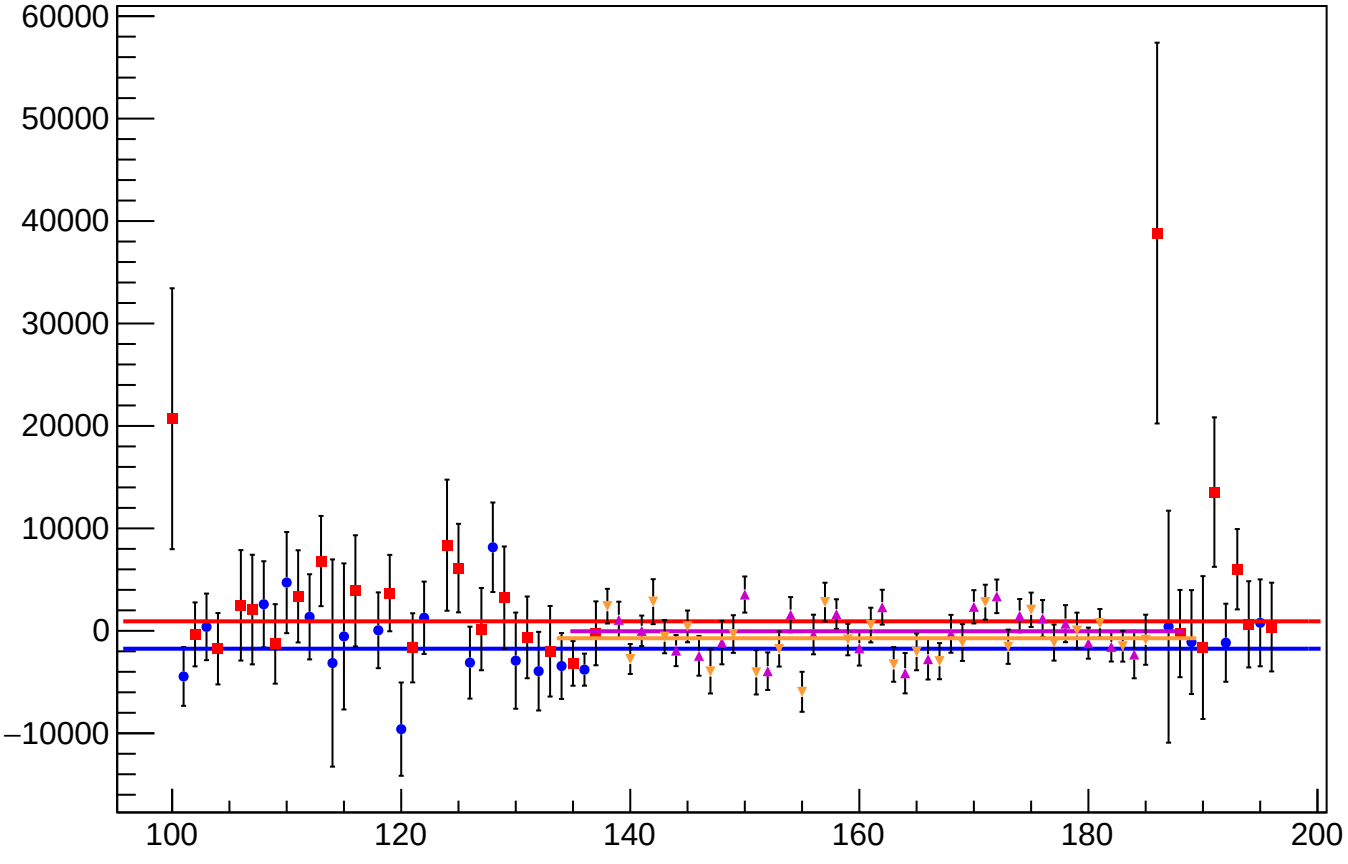
Left: 200.736+/-0.023 $\chi^2$/NDF: 386590.4/47

Right: 189.888+/-0.029 $\chi^2$/NDF: 810051.9/45

In: 197.077+/-0.026 $\chi^2$/NDF:541462.7/42

Out: 196.034+/-0.025 $\chi^2$/NDF:739351.7/50

All: 196.526+/-0.018 $\chi^2$/NDF: 1281638.4/93




Right In: -1745.885+/-809.474 $\chi^2$/NDF: 16.7/19

Left Out: -720.705+/-346.376 $\chi^2$/NDF:38.3/24

Right Out: 928.054+/-816.159 $\chi^2$/NDF: 23.5/25

Left In: -39.275+/-359.265 $\chi^2$/NDF:34.4/22

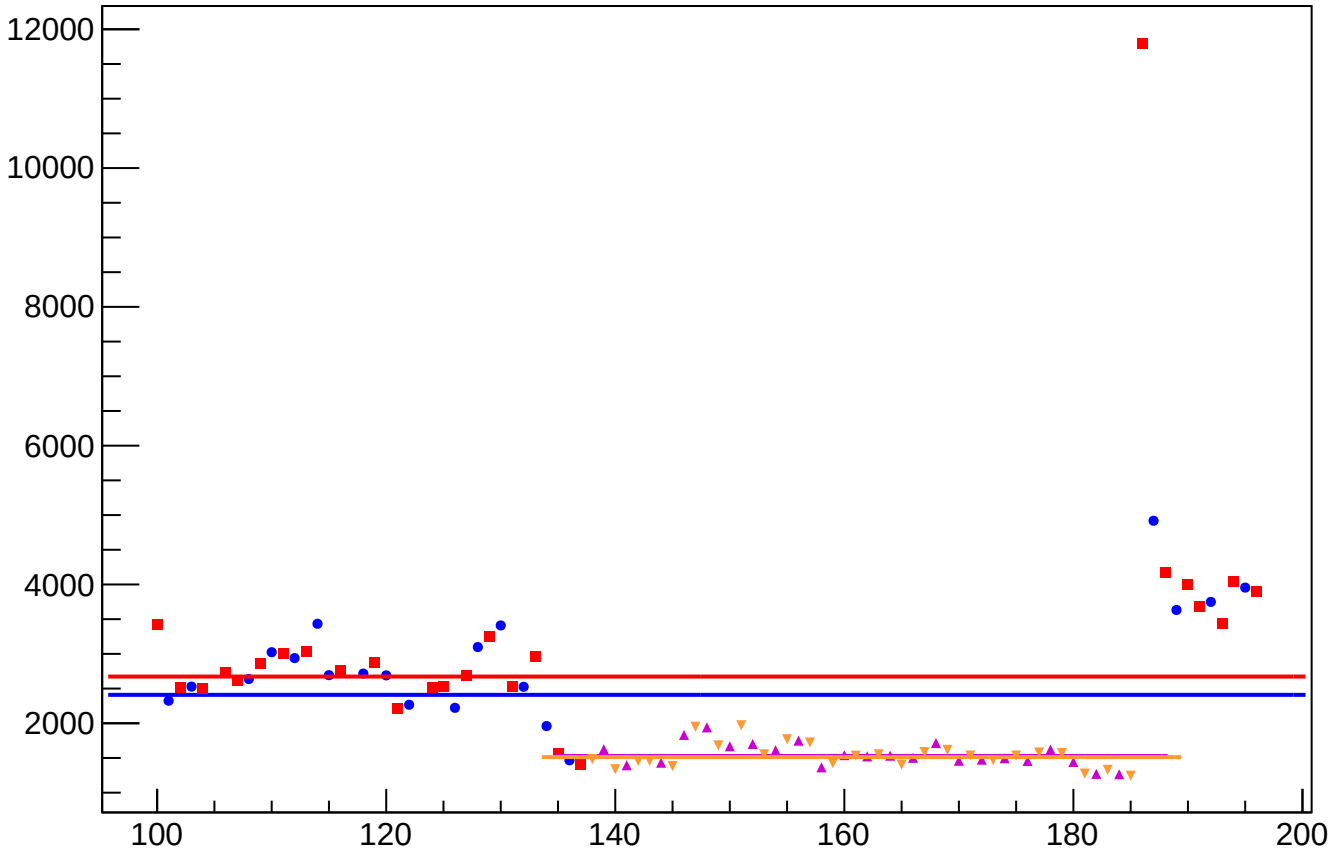
Left: -392.433+/-249.357 $\chi^2$/NDF: 74.6/47

Right: -419.910+/-574.733 $\chi^2$/NDF: 45.7/45

In: -320.123+/-328.376 $\chi^2$/NDF:54.9/42

Out: -469.065+/-318.850 $\chi^2$/NDF:65.3/50

All: -396.786+/-228.754 $\chi^2$/NDF: 120.2/93




Right In: 2409.492+/-0.572 $\chi^2$/NDF: 1763720.2/19

Left Out: 1512.365+/-0.245 $\chi^2$/NDF:442559.1/24

Right Out: 2673.080+/-0.577 $\chi^2$/NDF: 2271144.6/25

Left In: 1527.964+/-0.254 $\chi^2$/NDF:373845.3/22

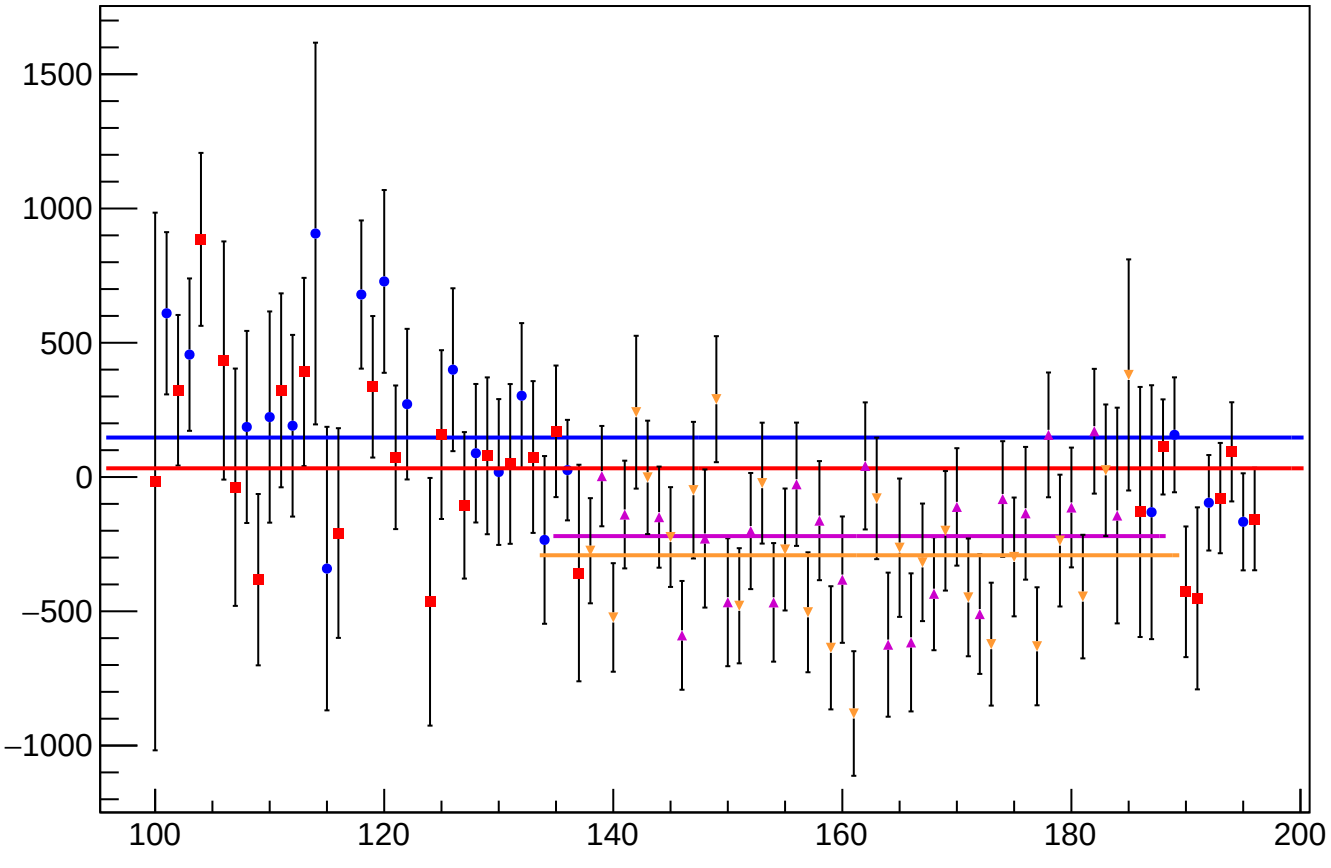
Left: 1519.880+/-0.176 $\chi^2$/NDF: 818358.6/47

Right: 2540.202+/-0.406 $\chi^2$/NDF: 4140026.7/45

In: 1673.033+/-0.232 $\chi^2$/NDF:4119131.6/42

Out: 1689.517+/-0.225 $\chi^2$/NDF:6141447.7/50

All: 1681.518+/-0.162 $\chi^2$/NDF: 10263173.6/9




Right In: 147.069+/-61.209 $\chi^2$/NDF: 20.9/19

Left Out: -291.316+/-45.614 $\chi^2$/NDF:36.4/24

Right Out: 32.508+/-55.615 $\chi^2$/NDF: 24.2/25

Left In: -219.983+/-47.146 $\chi^2$/NDF:23.7/22

Left: -256.827+/-32.782 $\chi^2$/NDF: 61.3/47

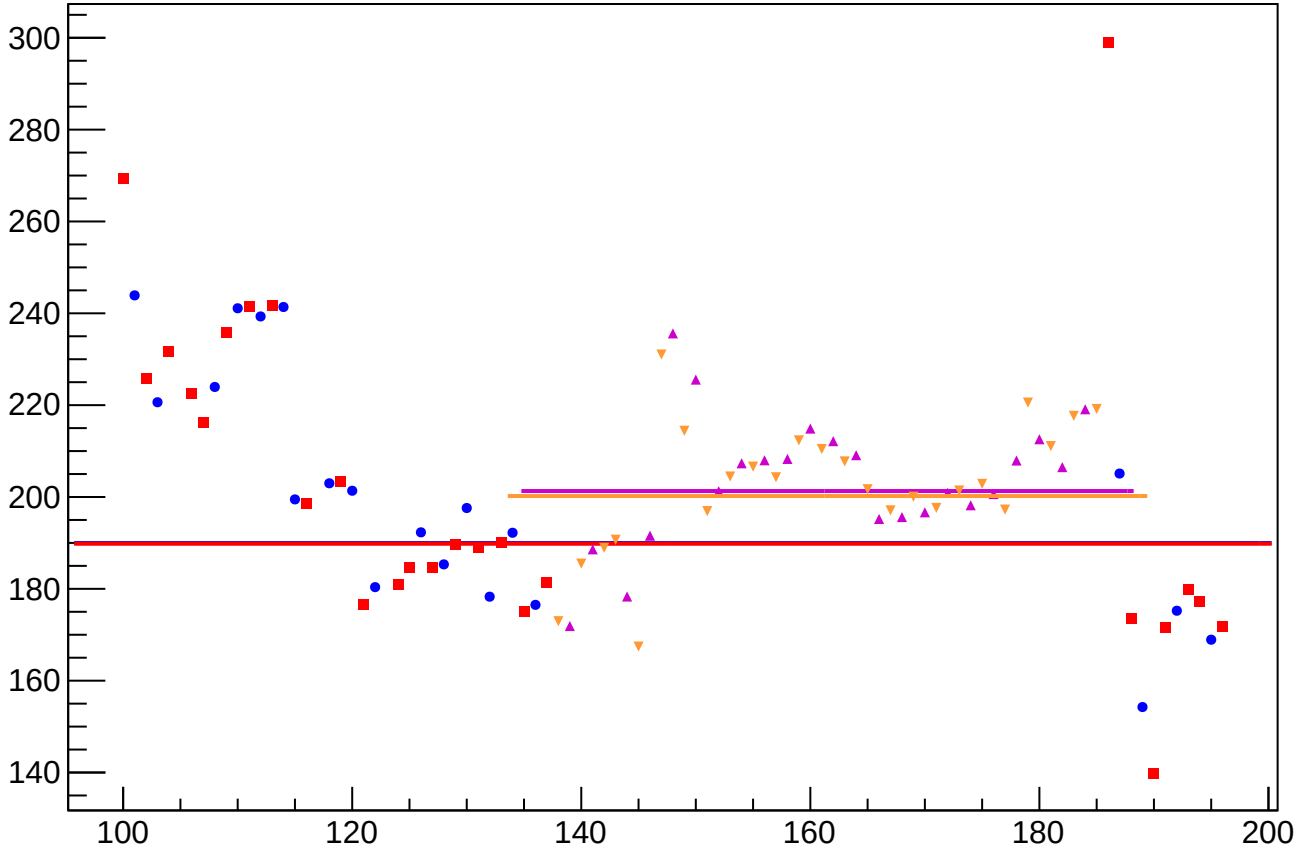
Right: 84.315+/-41.162 $\chi^2$/NDF: 47.0/45

In: -83.307+/-37.351 $\chi^2$/NDF:67.2/42

Out: -161.088+/-35.269 $\chi^2$/NDF:80.9/50

All: -124.426+/-25.643 $\chi^2$/NDF: 150.3/93

# eigen_cor_asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 189.963+/-0.043 $\chi^2$/NDF: 316769.0/19

Left Out: 200.210+/-0.032 $\chi^2$/NDF:204394.0/24

Right Out: 189.826+/-0.039 $\chi^2$/NDF: 493277.4/25

Left In: 201.297+/-0.033 $\chi^2$/NDF:181646.8/22

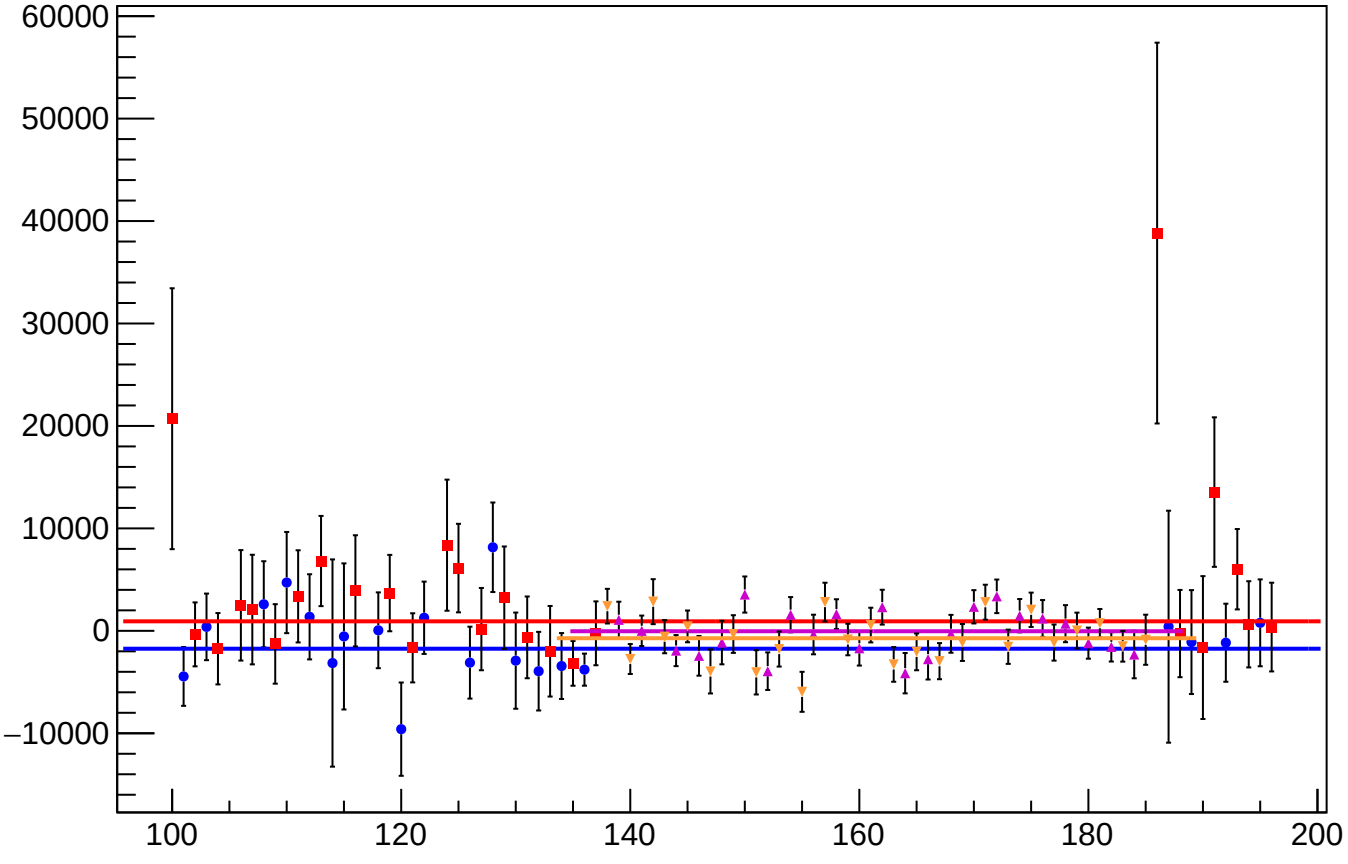
Left: 200.736+/-0.023 $\chi^2$/NDF: 386590.4/47

Right: 189.888+/-0.029 $\chi^2$/NDF: 810051.9/45

In: 197.077+/-0.026 $\chi^2$/NDF:541462.7/42

Out: 196.034+/-0.025 $\chi^2$/NDF:739351.7/50

All: 196.526+/-0.018 $\chi^2$/NDF: 1281638.4/93




Right In: -1745.885+/-809.474 $\chi^2$/NDF: 16.7/19

Left Out: -720.705+/-346.376 $\chi^2$/NDF:38.3/24

Right Out: 928.054+/-816.159 $\chi^2$/NDF: 23.5/25

Left In: -39.275+/-359.265 $\chi^2$/NDF:34.4/22

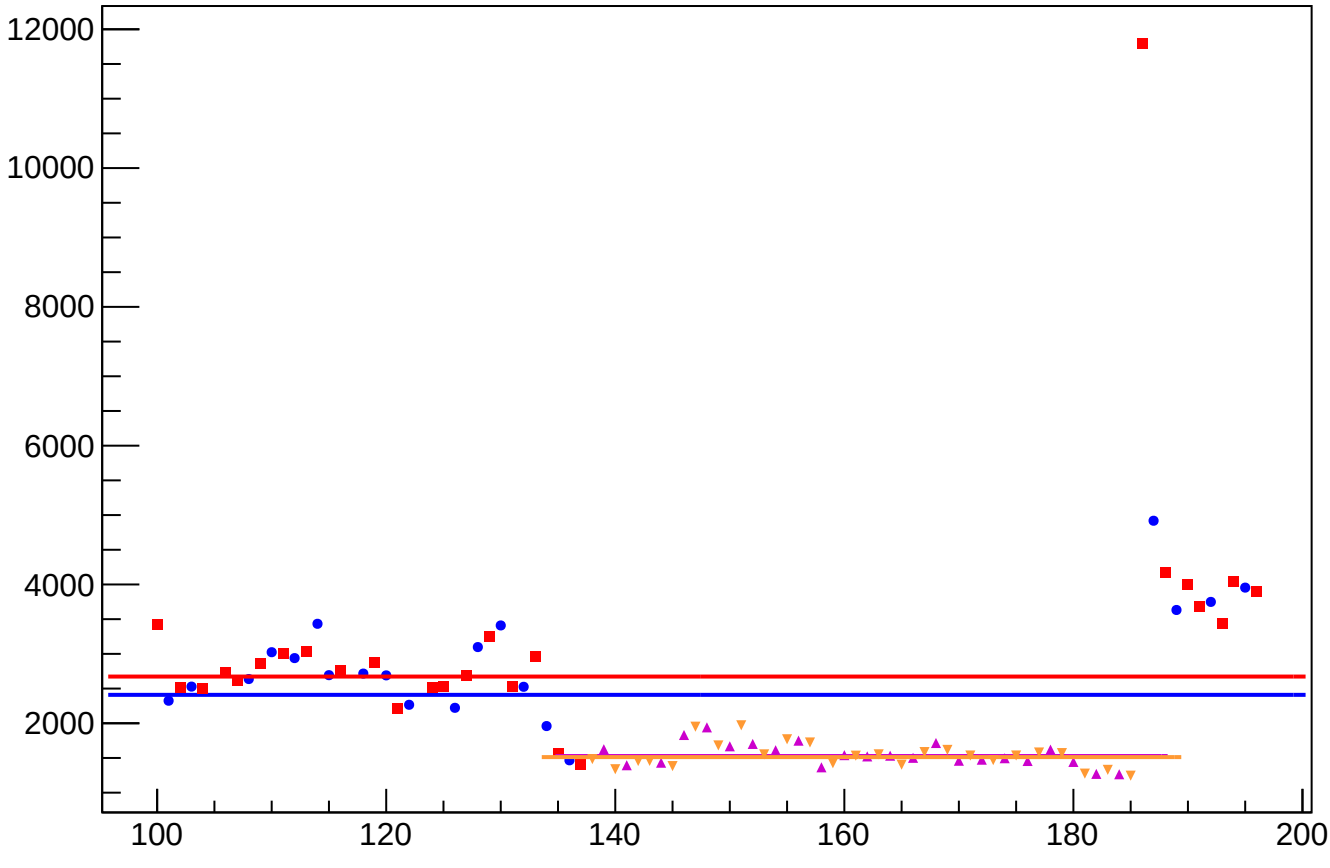
Left: -392.433+/-249.357 $\chi^2$/NDF: 74.6/47

Right: -419.910+/-574.733 $\chi^2$/NDF: 45.7/45

In: -320.123+/-328.376 $\chi^2$/NDF:54.9/42

Out: -469.065+/-318.850 $\chi^2$/NDF:65.3/50

All: -396.786+/-228.754 $\chi^2$/NDF: 120.2/93




Right In: 2409.492+/-0.572 $\chi^2$/NDF: 1763720.2/19

Left Out: 1512.365+/-0.245 $\chi^2$/NDF:442559.1/24

Right Out: 2673.080+/-0.577 $\chi^2$/NDF: 2271144.6/25

Left In: 1527.964+/-0.254 $\chi^2$/NDF:373845.3/22

Left: 1519.880+/-0.176 $\chi^2$/NDF: 818358.6/47

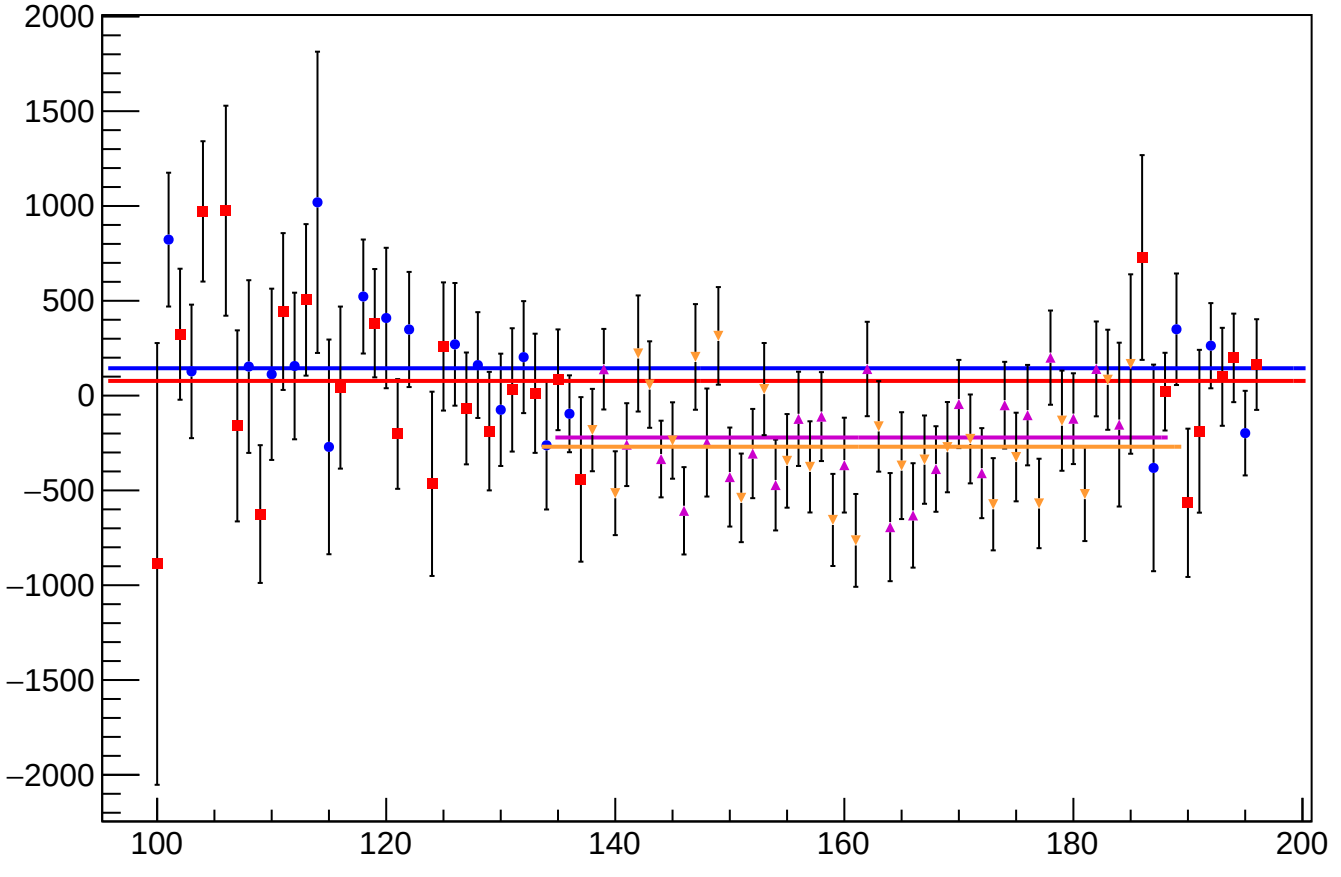
Right: 2540.202+/-0.406 $\chi^2$/NDF: 4140026.7/45

In: 1673.033+/-0.232 $\chi^2$/NDF:4119131.6/42

Out: 1689.517+/-0.225 $\chi^2$/NDF:6141447.7/50

All: 1681.518+/-0.162 $\chi^2$/NDF: 10263173.6/9

# dit_asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 144.245+/-70.782 $\chi^2$/NDF: 15.6/19

Left Out: -269.678+/-49.158 $\chi^2$/NDF:31.5/24

Right Out: 77.418+/-64.984 $\chi^2$/NDF: 26.6/25

Left In: -220.926+/-50.956 $\chi^2$/NDF:23.4/22

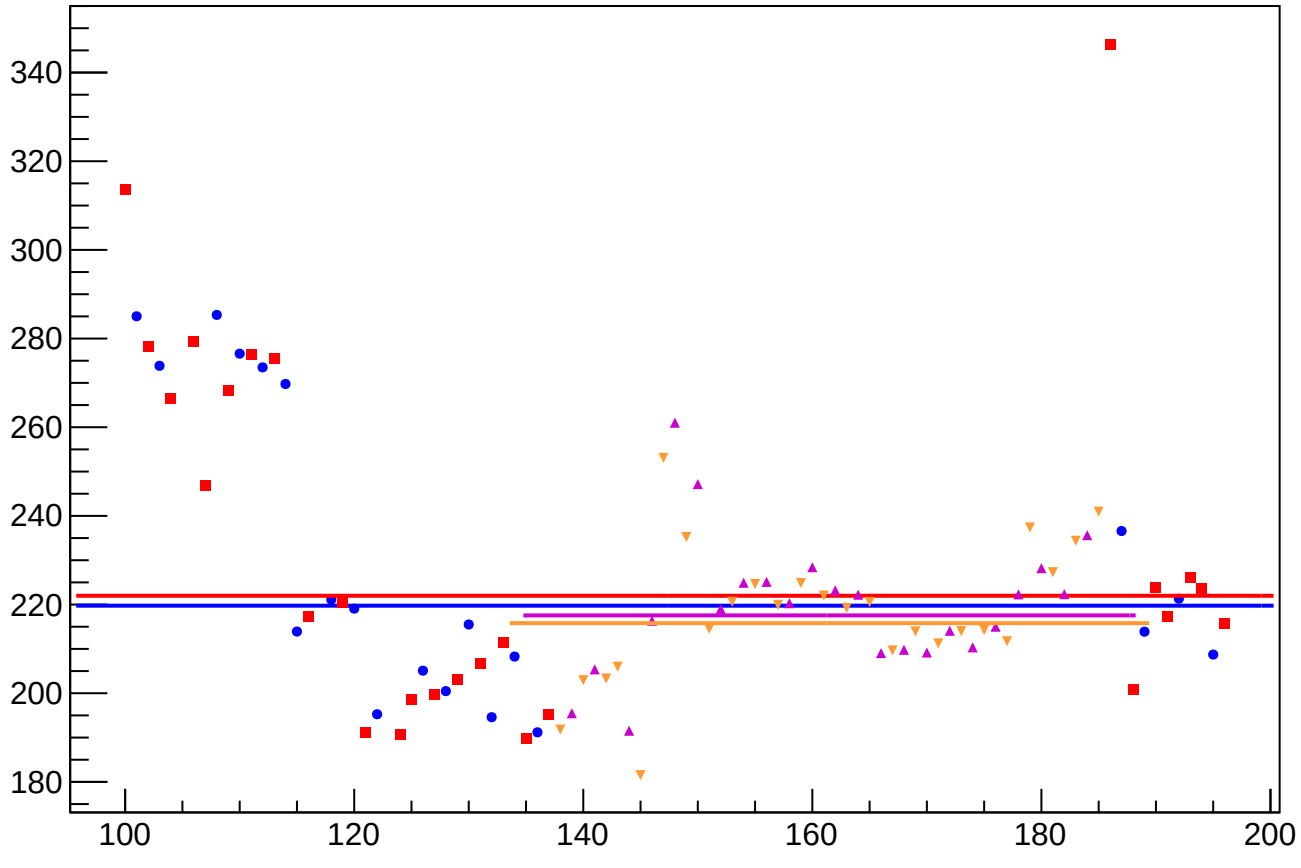
Left: -246.177+/-35.378 $\chi^2$/NDF: 55.3/47

Right: 107.983+/-47.870 $\chi^2$/NDF: 42.8/45

In: -96.277+/-41.354 $\chi^2$/NDF:56.5/42

Out: -143.350+/-39.204 $\chi^2$/NDF:76.3/50

All: -121.069+/-28.451 $\chi^2$/NDF: 133.5/93




Right In: 219.748+/-0.050 $\chi^2$/NDF: 326952.7/19

Left Out: 215.807+/-0.035 $\chi^2$/NDF:188699.2/24

Right Out: 221.987+/-0.046 $\chi^2$/NDF: 456782.3/25

Left In: 217.555+/-0.036 $\chi^2$/NDF:161066.4/22

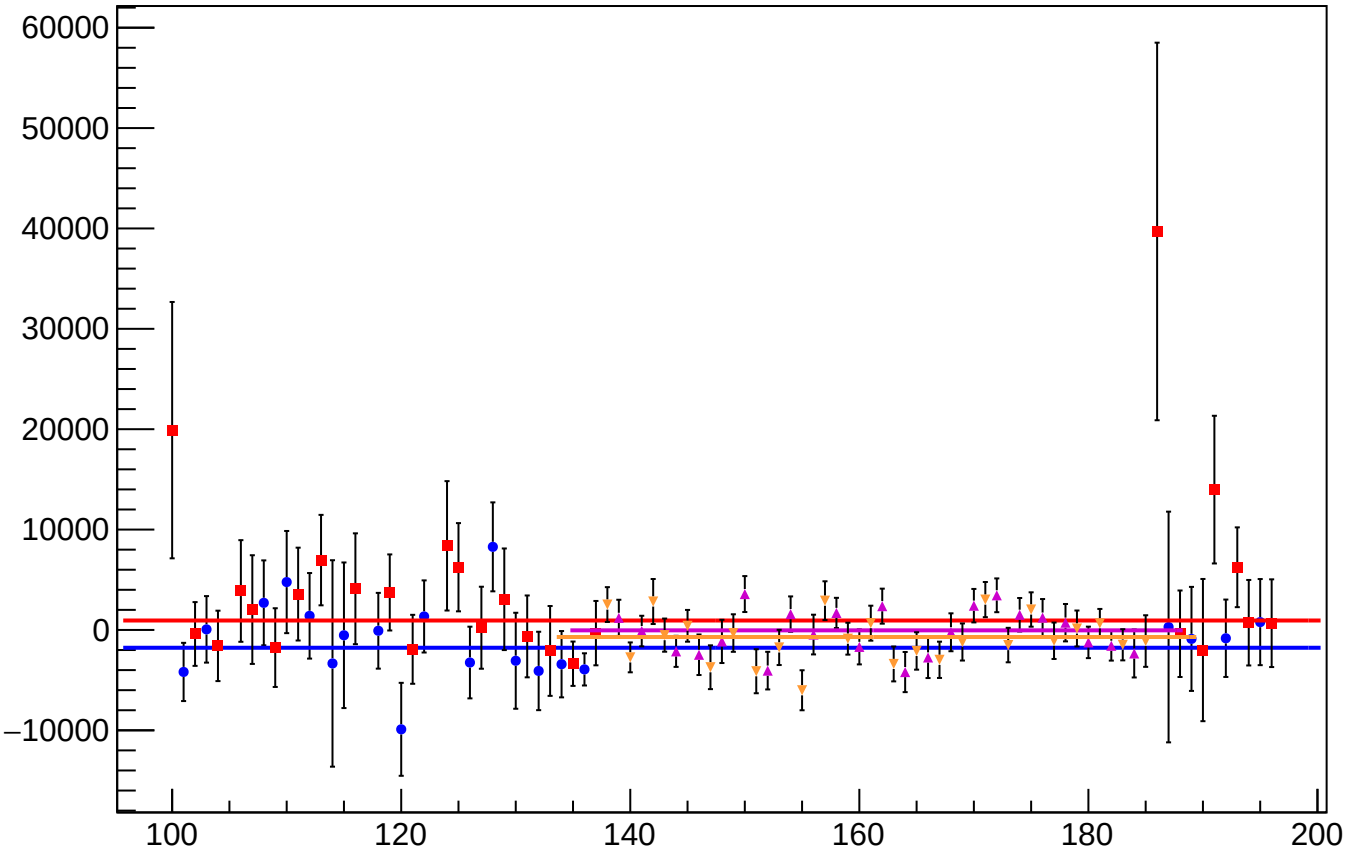
Left: 216.649+/-0.025 $\chi^2$/NDF: 350985.0/47

Right: 220.963+/-0.034 $\chi^2$/NDF: 784820.8/45

In: 218.303+/-0.029 $\chi^2$/NDF:489283.5/42

Out: 218.056+/-0.028 $\chi^2$/NDF:656986.6/50

All: 218.173+/-0.020 $\chi^2$/NDF: 1146307.8/93




Right In: -1774.534+/-825.423 $\chi^2$/NDF: 16.7/19

Left Out: -704.012+/-355.462 $\chi^2$/NDF:37.6/24

Right Out: 940.887+/-827.344 $\chi^2$/NDF: 24.4/25

Left In: -39.658+/-368.873 $\chi^2$/NDF:34.3/22

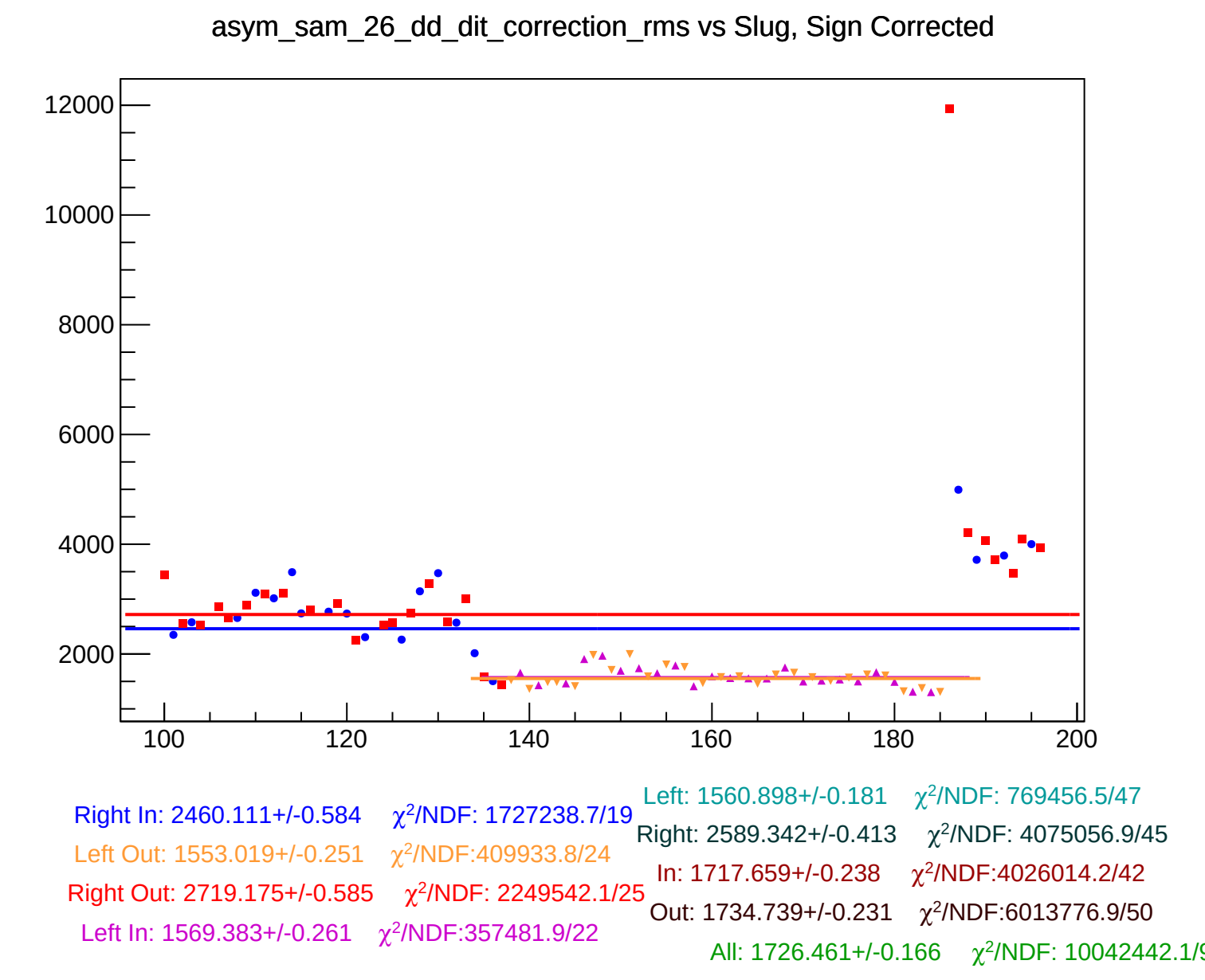
Left: -384.132+/-255.960 $\chi^2$/NDF: 73.6/47

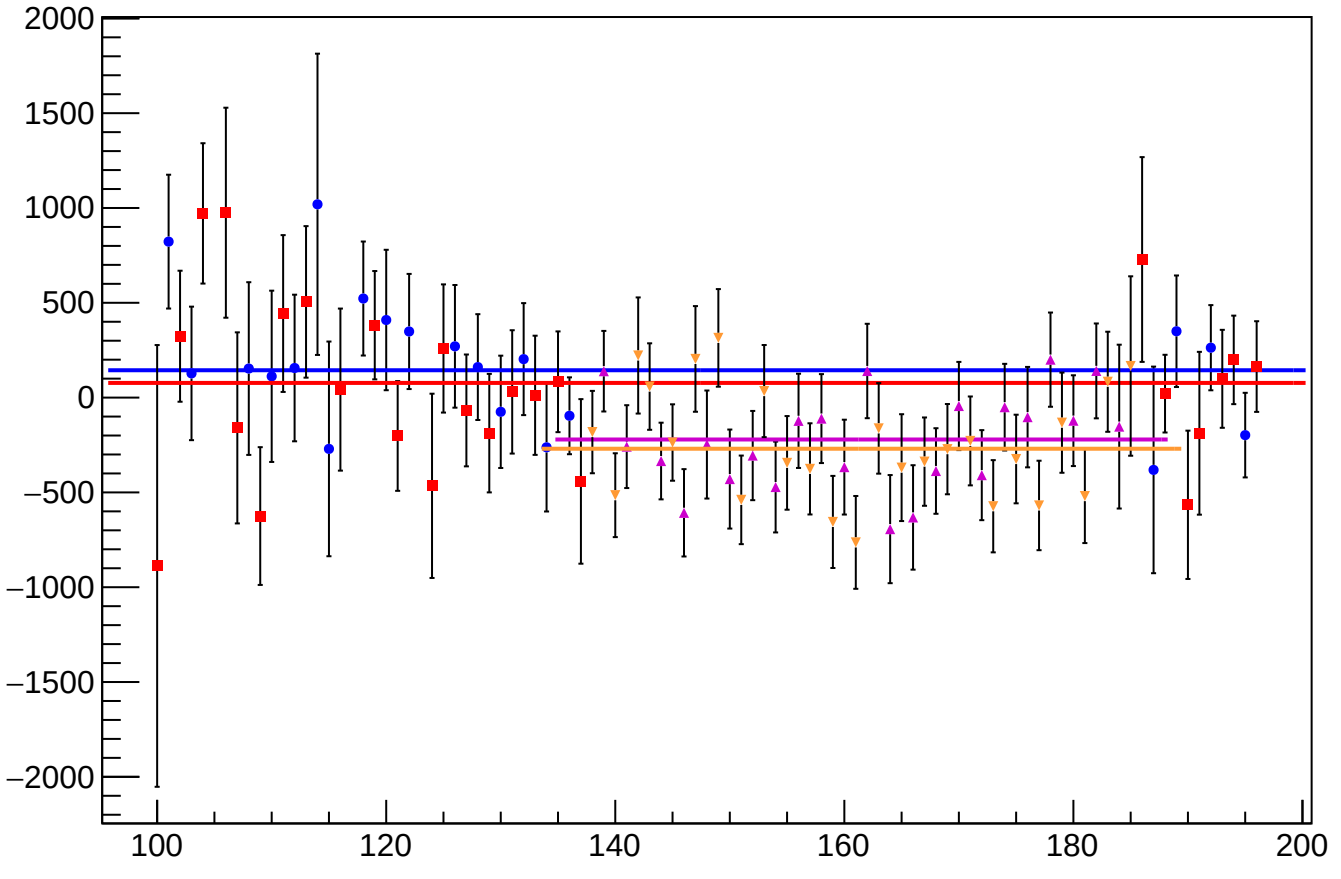
Right: -419.980+/-584.340 $\chi^2$/NDF: 46.5/45

In: -328.456+/-336.774 $\chi^2$/NDF:54.7/42

Out: -447.691+/-326.594 $\chi^2$/NDF:65.4/50

All: -389.903+/-234.453 $\chi^2$/NDF: 120.1/93


asym_sam_26_dd_dit_correction_rms vs Slug, Sign Corrected
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2460.111+/-0.584 χ²/NDF: 1727238.7/19
Left Out: 1553.019+/-0.251 χ²/NDF:409933.8/24
Right Out: 2719.175+/-0.585 χ²/NDF: 2249542.1/25
Left In: 1569.383+/-0.261 χ²/NDF:357481.9/22
Left: 1560.898+/-0.181 χ²/NDF: 769456.5/47
Right: 2589.342+/-0.413 χ²/NDF: 4075056.9/45
In: 1717.659+/-0.238 χ²/NDF:4026014.2/42
Out: 1734.739+/-0.231 χ²/NDF:6013776.9/50
All: 1726.461+/-0.166 χ²/NDF: 10042442.1/9




Right In: 144.247+/-70.782 $\chi^2$/NDF: 15.6/19

Left Out: -269.680+/-49.158 $\chi^2$/NDF:31.5/24

Right Out: 77.419+/-64.984 $\chi^2$/NDF: 26.6/25

Left In: -220.927+/-50.956 $\chi^2$/NDF:23.4/22

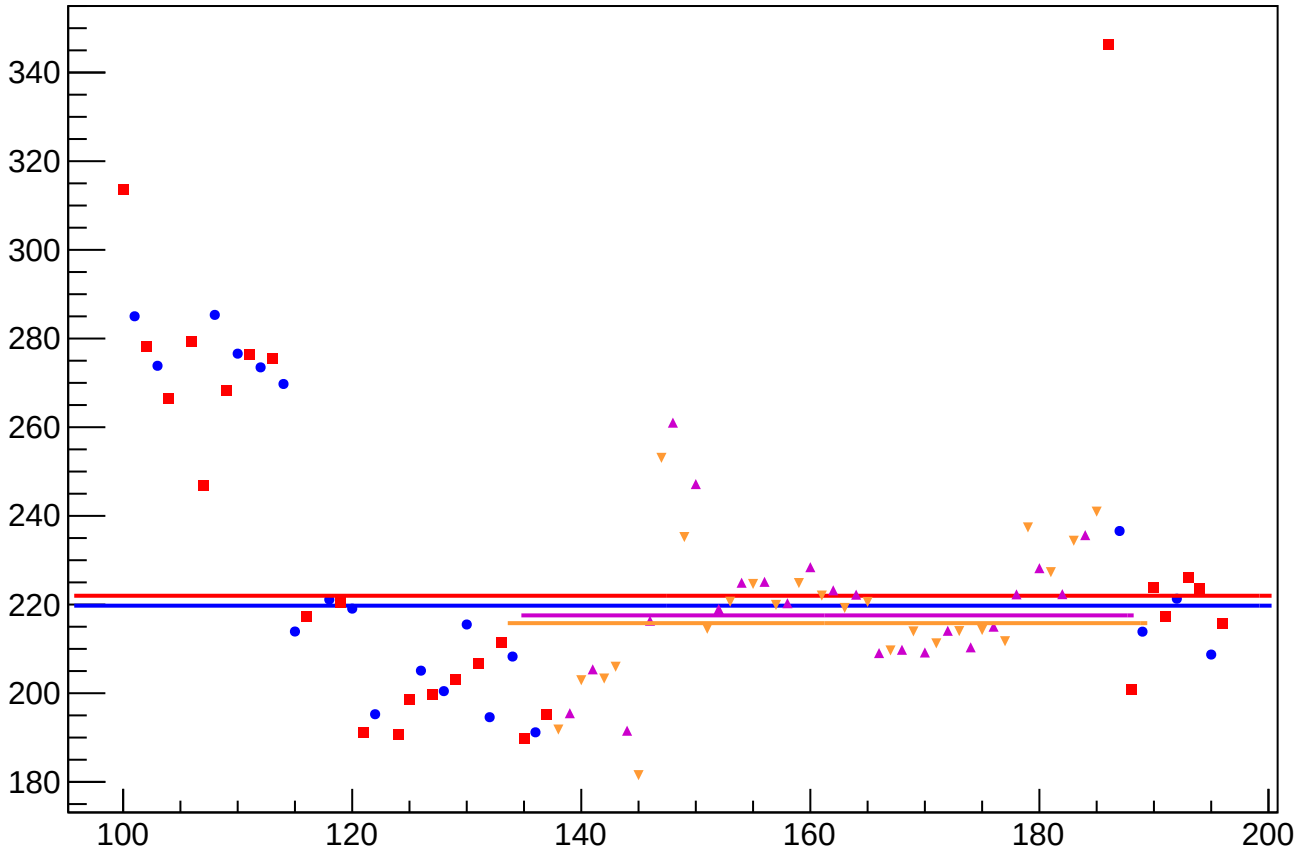
Left: -246.179+/-35.378 $\chi^2$/NDF: 55.3/47

Right: 107.984+/-47.869 $\chi^2$/NDF: 42.8/45

In: -96.276+/-41.354 $\chi^2$/NDF:56.5/42

Out: -143.351+/-39.204 $\chi^2$/NDF:76.3/50

All: -121.069+/-28.451 $\chi^2$/NDF: 133.5/93




Right In: 219.747+/-0.050 $\chi^2$/NDF: 326946.1/19

Left Out: 215.806+/-0.035 $\chi^2$/NDF:188703.4/24

Right Out: 221.986+/-0.046 $\chi^2$/NDF: 456766.9/25

Left In: 217.555+/-0.036 $\chi^2$/NDF:161069.0/22

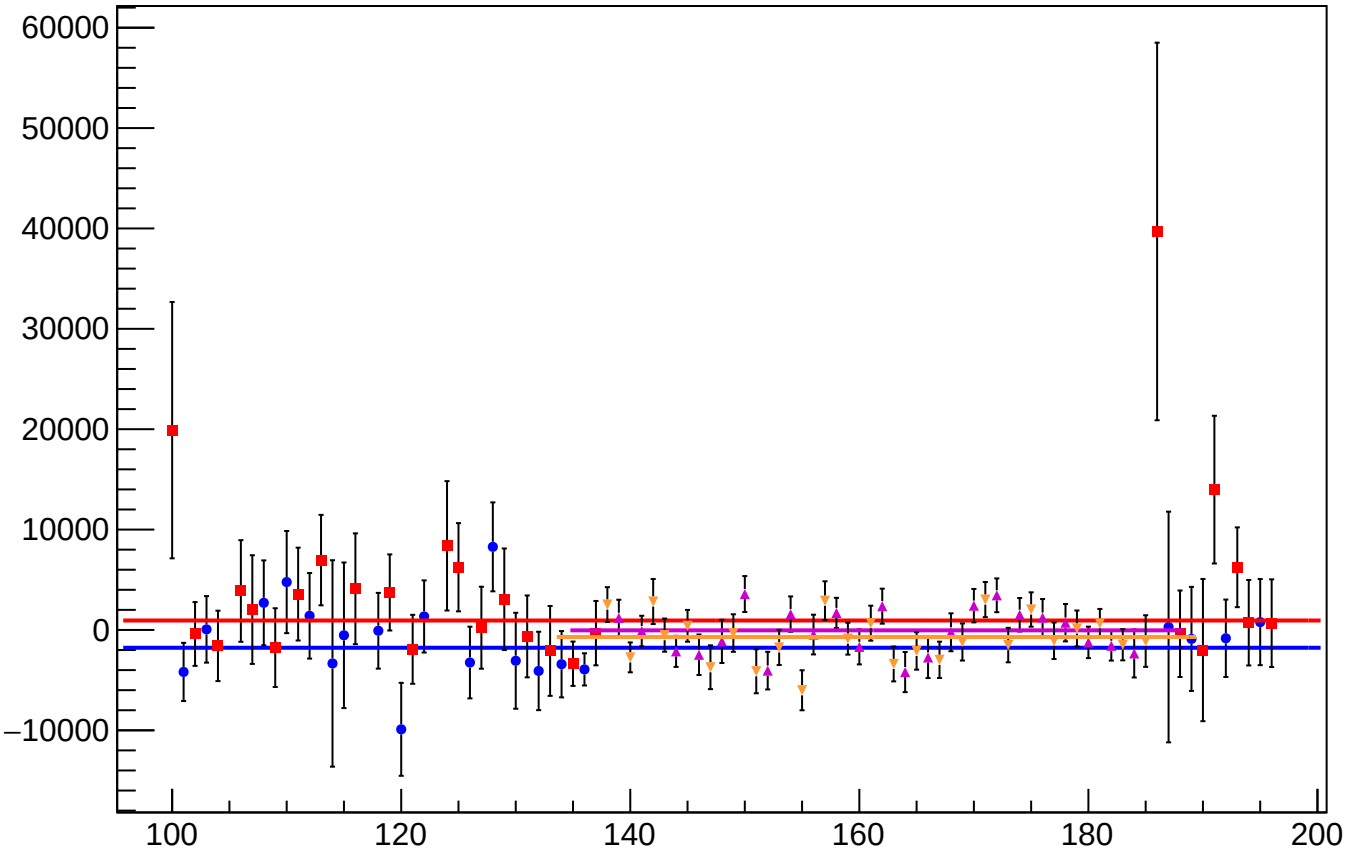
Left: 216.649+/-0.025 $\chi^2$/NDF: 350991.6/47

Right: 220.962+/-0.034 $\chi^2$/NDF: 784799.1/45

In: 218.303+/-0.029 $\chi^2$/NDF:489278.8/42

Out: 218.056+/-0.028 $\chi^2$/NDF:656973.4/50

All: 218.173+/-0.020 $\chi^2$/NDF: 1146289.9/93




Right In: -1774.530+/-825.421 $\chi^2$/NDF: 16.7/19

Left Out: -704.012+/-355.462 $\chi^2$/NDF:37.6/24

Right Out: 940.887+/-827.343 $\chi^2$/NDF: 24.4/25

Left In: -39.657+/-368.873 $\chi^2$/NDF:34.3/22

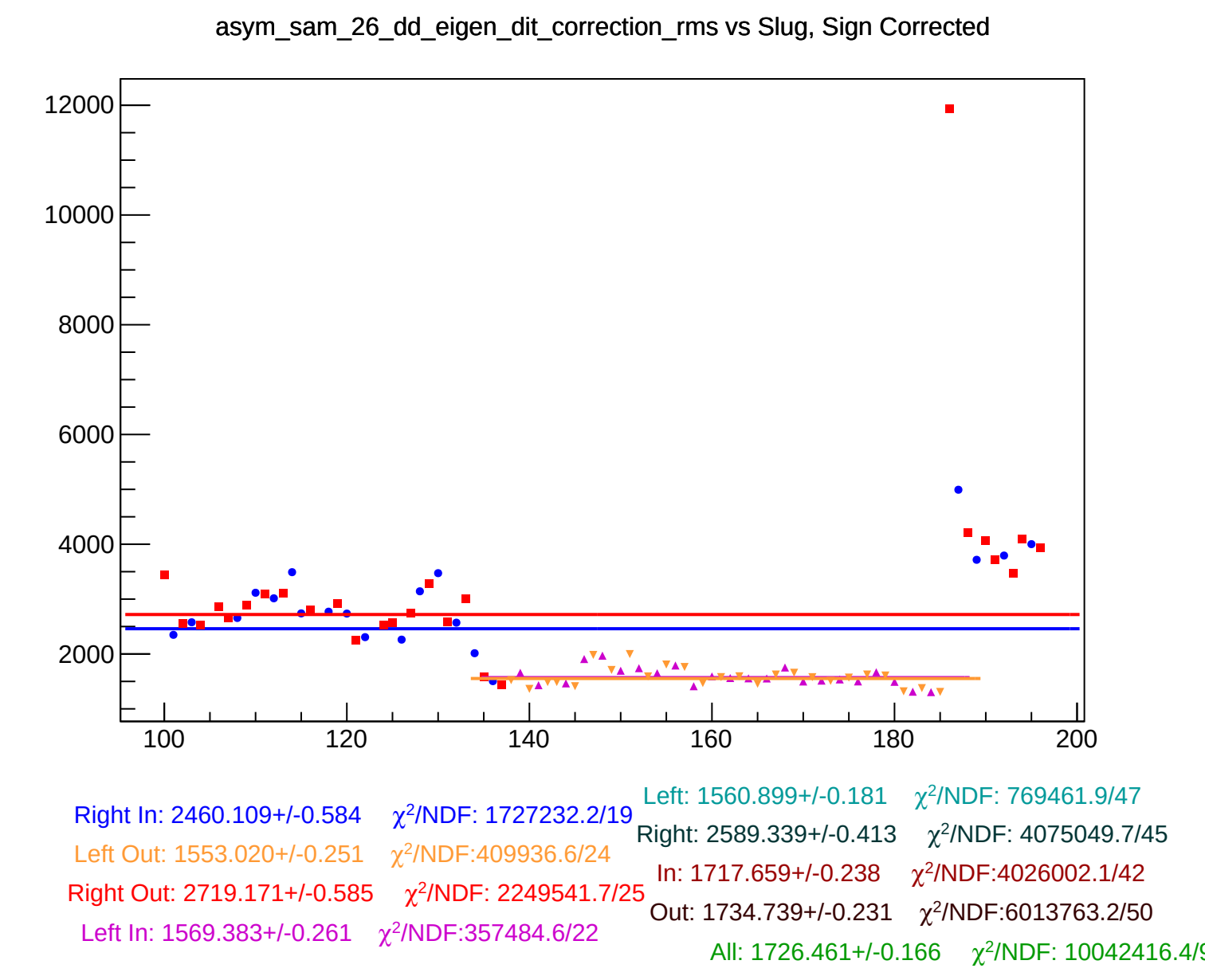
Left: -384.131+/-255.960 $\chi^2$/NDF: 73.6/47

Right: -419.977+/-584.339 $\chi^2$/NDF: 46.5/45

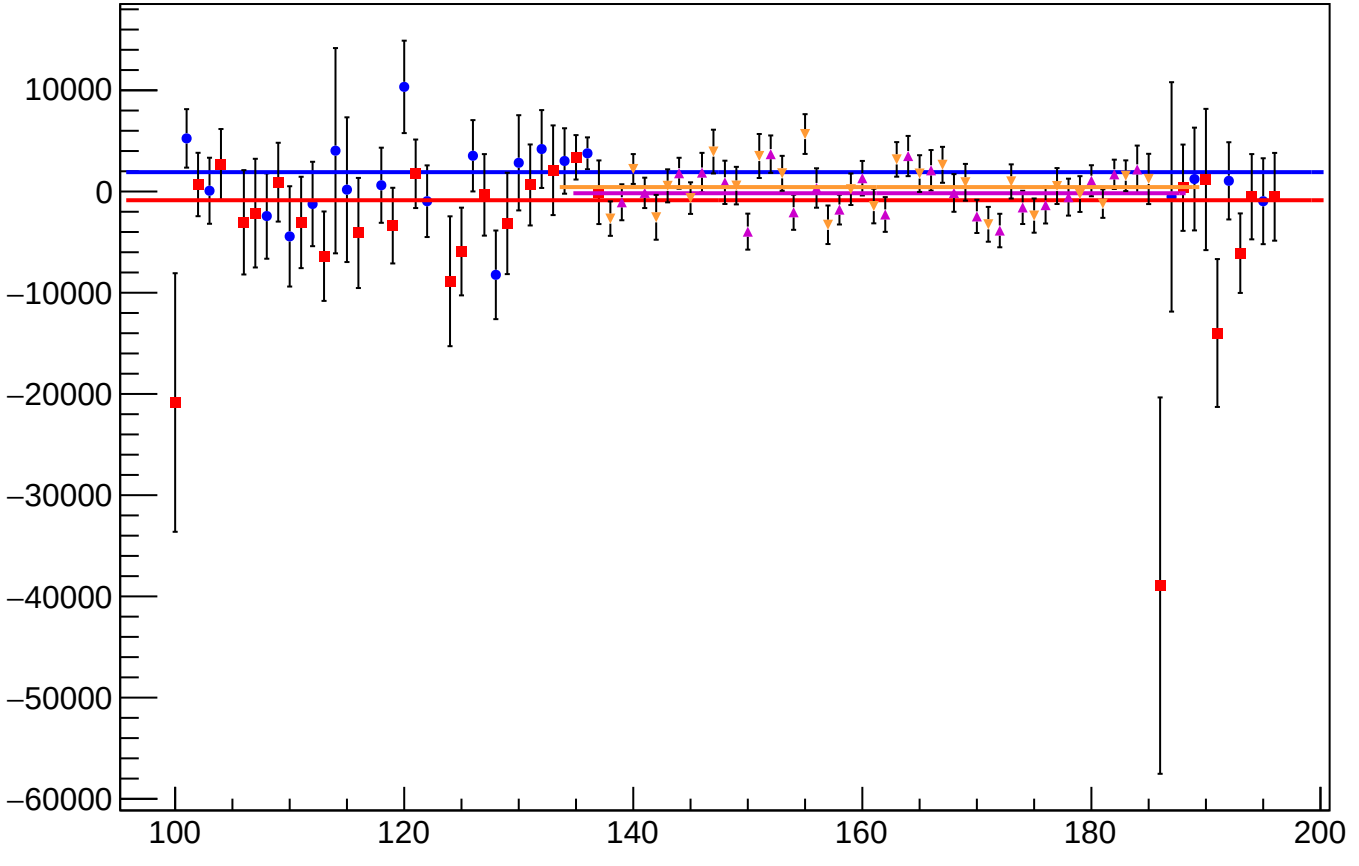
In: -328.455+/-336.774 $\chi^2$/NDF:54.7/42

Out: -447.690+/-326.594 $\chi^2$/NDF:65.4/50

All: -389.902+/-234.453 $\chi^2$/NDF: 120.1/93


asym_sam_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected
12000
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 2460.109+/-0.584 χ²/NDF: 1727232.2/19
Left Out: 1553.020+/-0.251 χ²/NDF:409936.6/24
Right Out: 2719.171+/-0.585 χ²/NDF: 2249541.7/25
Left In: 1569.383+/-0.261 χ²/NDF:357484.6/22
Left: 1560.899+/-0.181 χ²/NDF: 769461.9/47
Right: 2589.339+/-0.413 χ²/NDF: 4075049.7/45
In: 1717.659+/-0.238 χ²/NDF:4026002.1/42
Out: 1734.739+/-0.231 χ²/NDF:6013763.2/50
All: 1726.461+/-0.166 χ²/NDF: 10042416.4/9

# asym_sam_26_dd_mean vs Slug, Sign Corrected




Right In: 1912.896+/-813.077 $\chi^2$/NDF: 17.3/19

Left Out: 437.522+/-349.581 $\chi^2$/NDF:38.9/24

Right Out: -861.586+/-818.089 $\chi^2$/NDF: 24.3/25

Left In: -169.827+/-362.550 $\chi^2$/NDF:33.0/22

Left: 144.904+/-251.651 $\chi^2$/NDF: 73.3/47

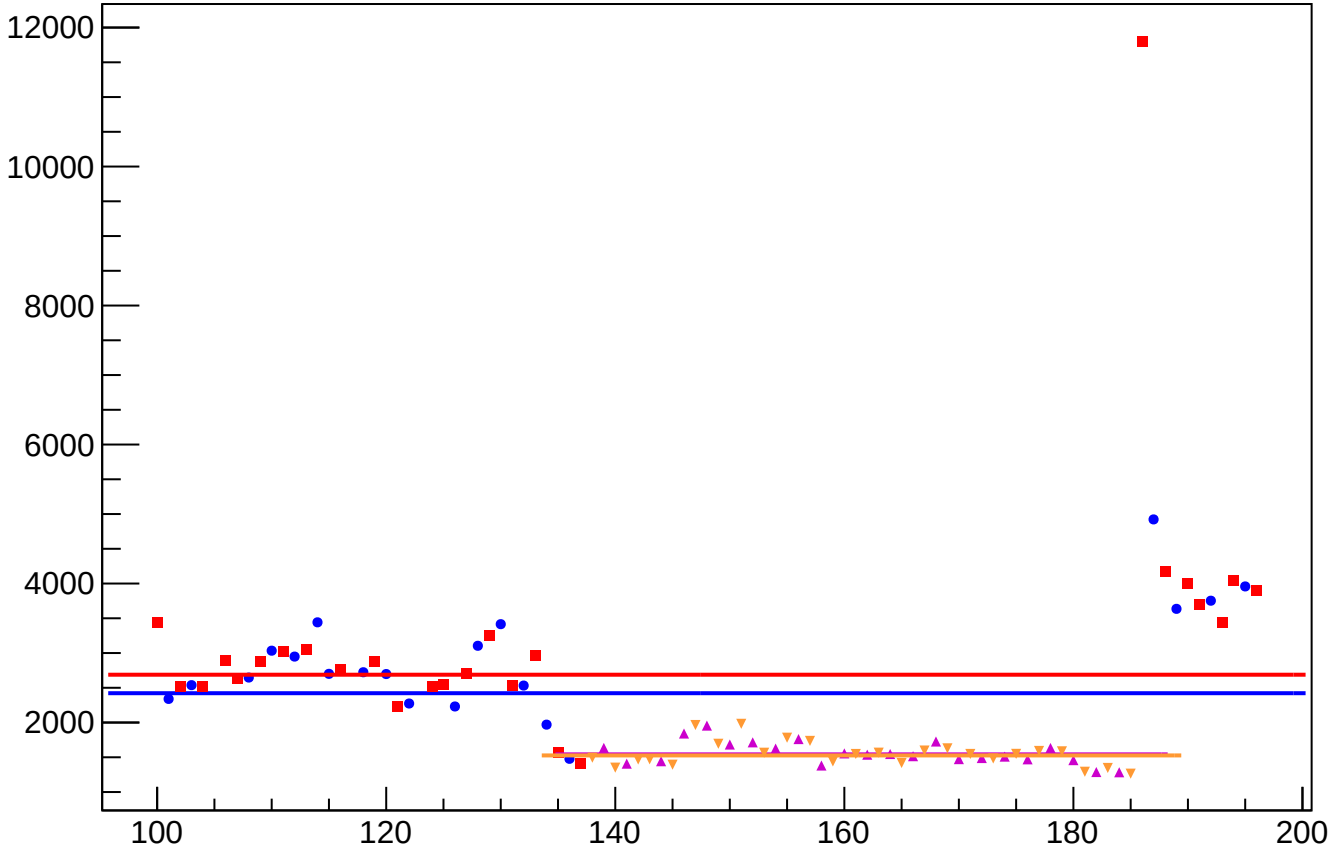
Right: 534.180+/-576.696 $\chi^2$/NDF: 47.3/45

In: 175.593+/-331.123 $\chi^2$/NDF:55.7/42

Out: 236.935+/-321.462 $\chi^2$/NDF:65.3/50

All: 207.172+/-230.648 $\chi^2$/NDF: 121.0/93

# asym_sam_26_dd_rms vs Slug, Sign Corrected




Right In: 2421.995+/-0.575 $\chi^2$/NDF: 1739227.1/19

Left Out: 1526.726+/-0.247 $\chi^2$/NDF:429467.0/24

Right Out: 2688.012+/-0.578 $\chi^2$/NDF: 2250006.7/25

Left In: 1542.262+/-0.256 $\chi^2$/NDF:362291.1/22

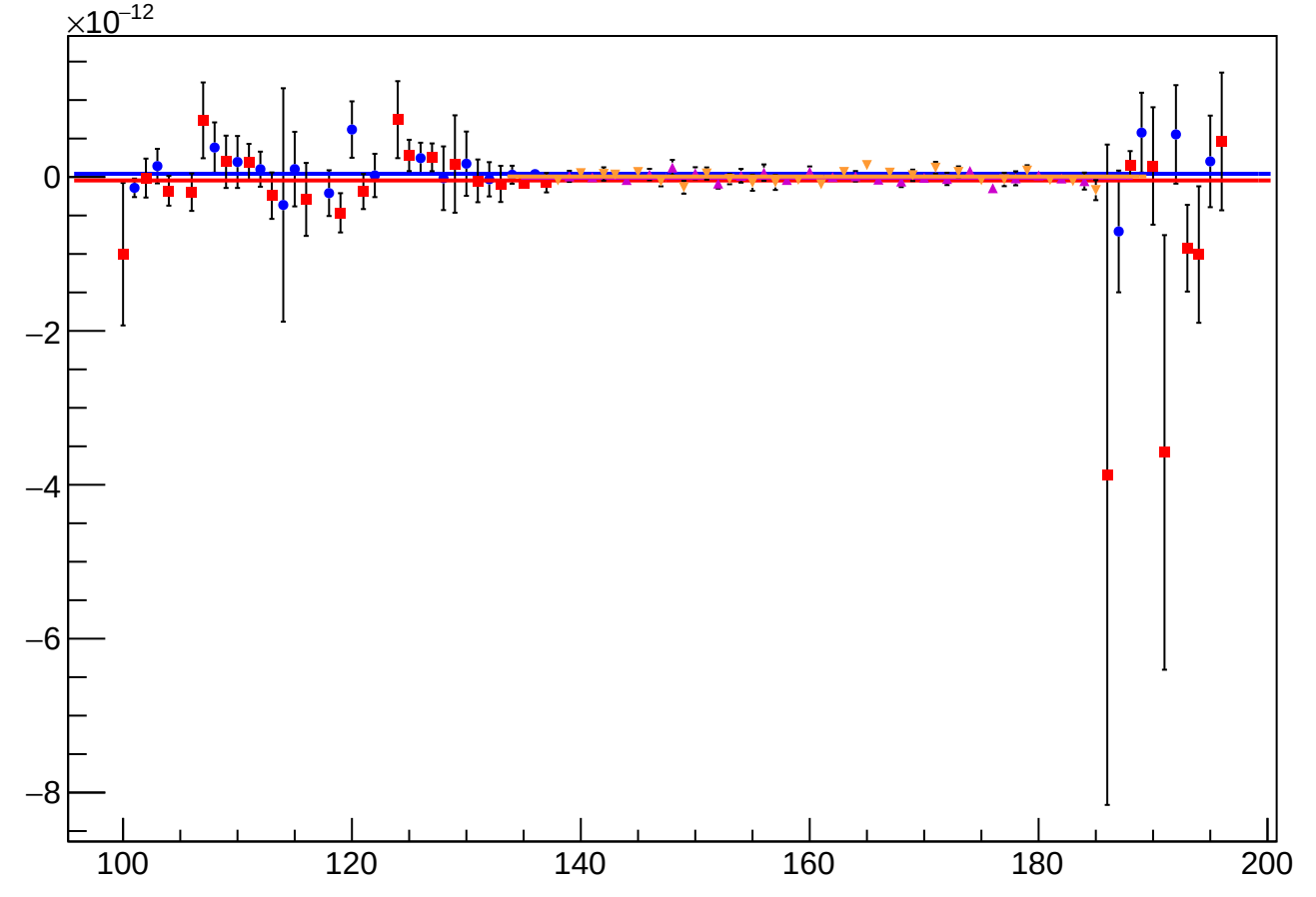
Left: 1534.211+/-0.178 $\chi^2$/NDF: 793661.4/47

Right: 2554.186+/-0.408 $\chi^2$/NDF: 4095618.3/45

In: 1688.166+/-0.234 $\chi^2$/NDF:4054558.9/42

Out: 1706.033+/-0.227 $\chi^2$/NDF:6087242.9/50

All: 1697.364+/-0.163 $\chi^2$/NDF: 10144799.4/9




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:30.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:17.0/22

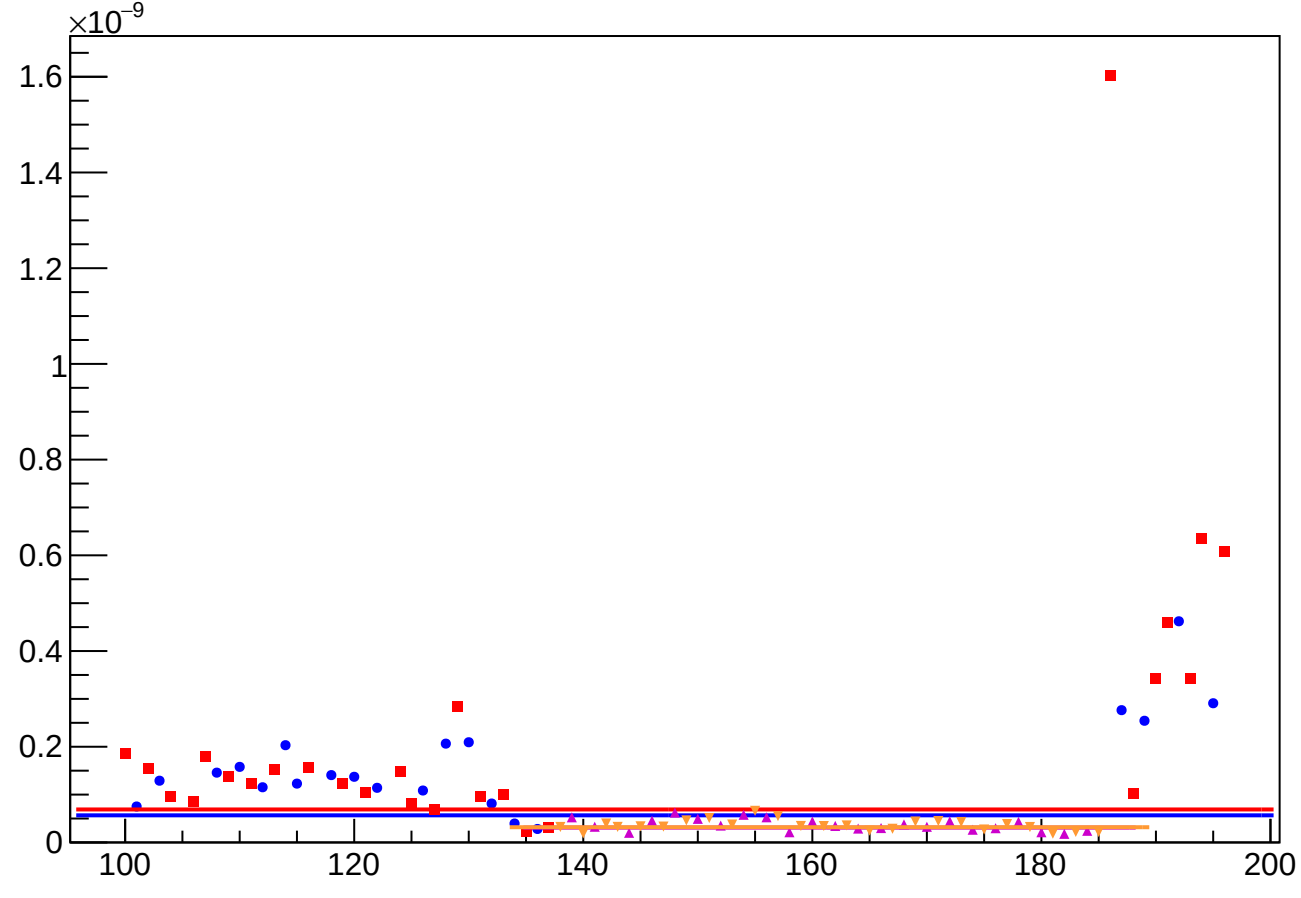
Left: -0.000+/-0.000 $\chi^2$/NDF: 48.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:29.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 87.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4153377.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1231140.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5097186.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1593815.4/22

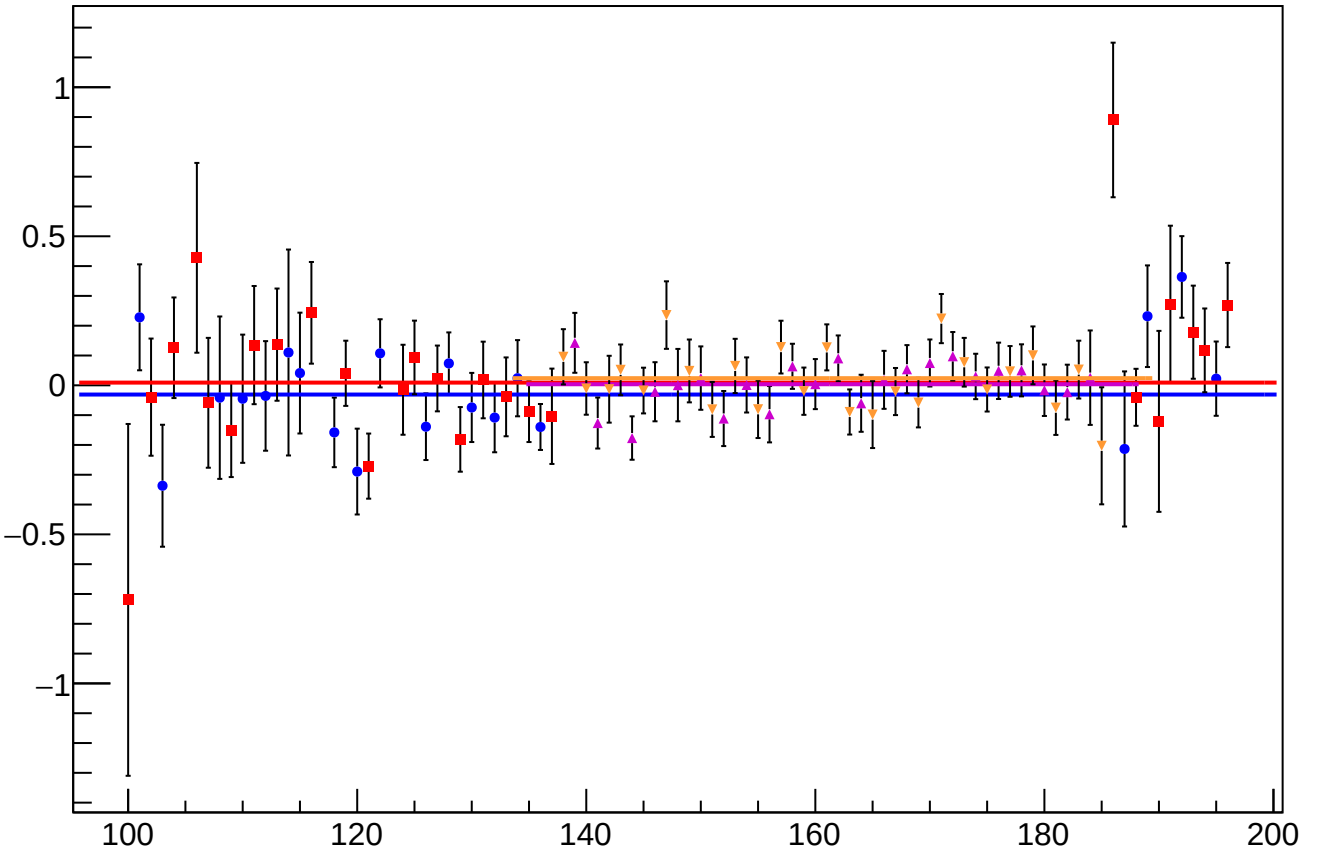
Left: 0.000+/-0.000 $\chi^2$/NDF: 2829280.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9348874.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:6648185.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7772380.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 14426356.1/93




Right In: -0.031+/-0.031 $\chi^2$/NDF: 26.6/19

Left Out: 0.024+/-0.018 $\chi^2$/NDF:25.5/24

Right Out: 0.009+/-0.029 $\chi^2$/NDF: 37.6/25

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.9/22

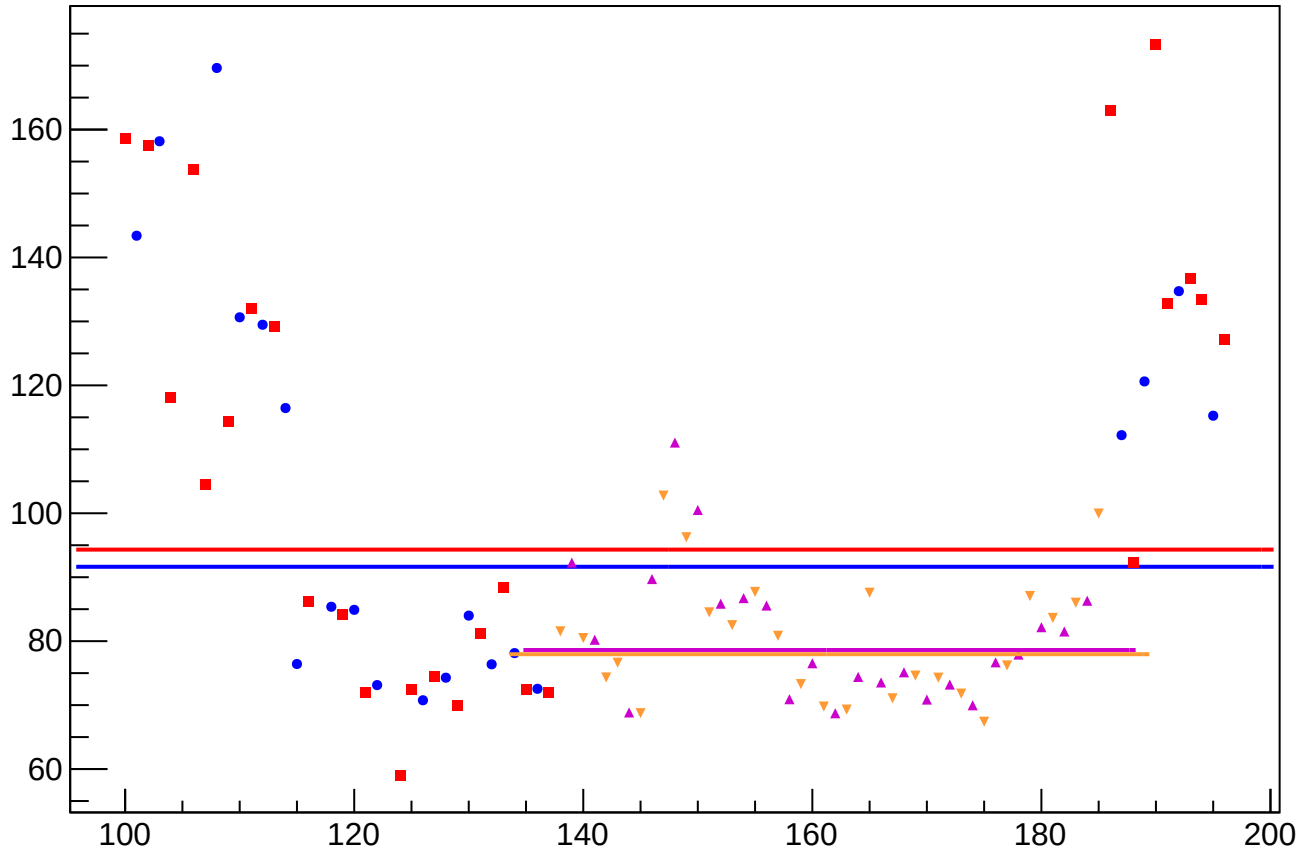
Left: 0.014+/-0.013 $\chi^2$/NDF: 45.0/47

Right: -0.010+/-0.021 $\chi^2$/NDF: 65.1/45

In: -0.006+/-0.016 $\chi^2$/NDF:46.4/42

Out: 0.020+/-0.015 $\chi^2$/NDF:63.4/50

All: 0.008+/-0.011 $\chi^2$/NDF: 111.1/93




Right In: 91.631+/-0.022 $\chi^2$/NDF: 1433875.9/19

Left Out: 77.957+/-0.013 $\chi^2$/NDF:439703.9/24

Right Out: 94.316+/-0.020 $\chi^2$/NDF: 1846446.6/25

Left In: 78.615+/-0.013 $\chi^2$/NDF:497808.4/22

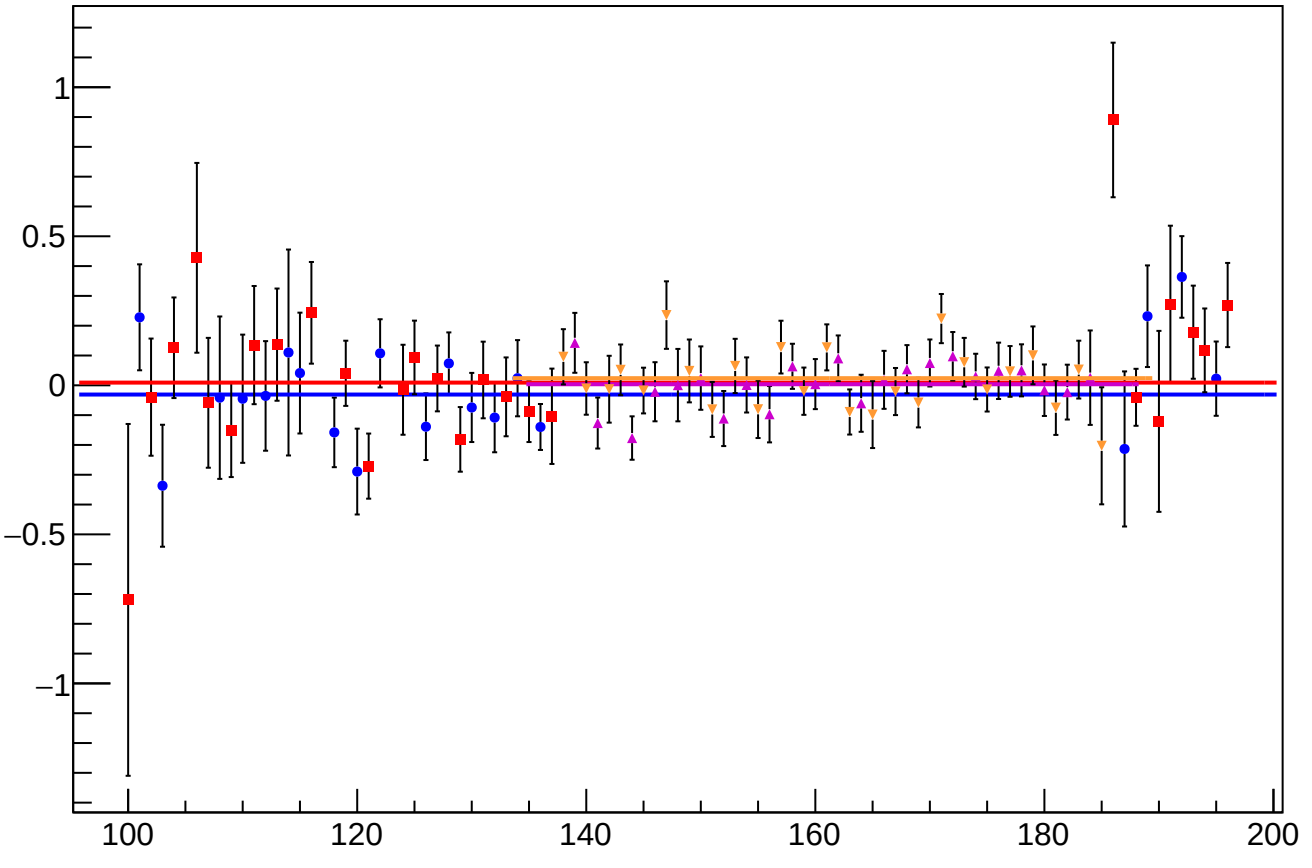
Left: 78.273+/-0.009 $\chi^2$/NDF: 938817.0/47

Right: 93.058+/-0.015 $\chi^2$/NDF: 3288508.6/45

In: 82.118+/-0.011 $\chi^2$/NDF:2196247.5/42

Out: 82.516+/-0.011 $\chi^2$/NDF:2753958.5/50

All: 82.326+/-0.008 $\chi^2$/NDF: 4950864.6/93




Right In: -0.031+/-0.031 $\chi^2$/NDF: 26.6/19

Left Out: 0.024+/-0.018 $\chi^2$/NDF:25.5/24

Right Out: 0.009+/-0.029 $\chi^2$/NDF: 37.6/25

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.9/22

Left: 0.014+/-0.013 $\chi^2$/NDF: 45.0/47

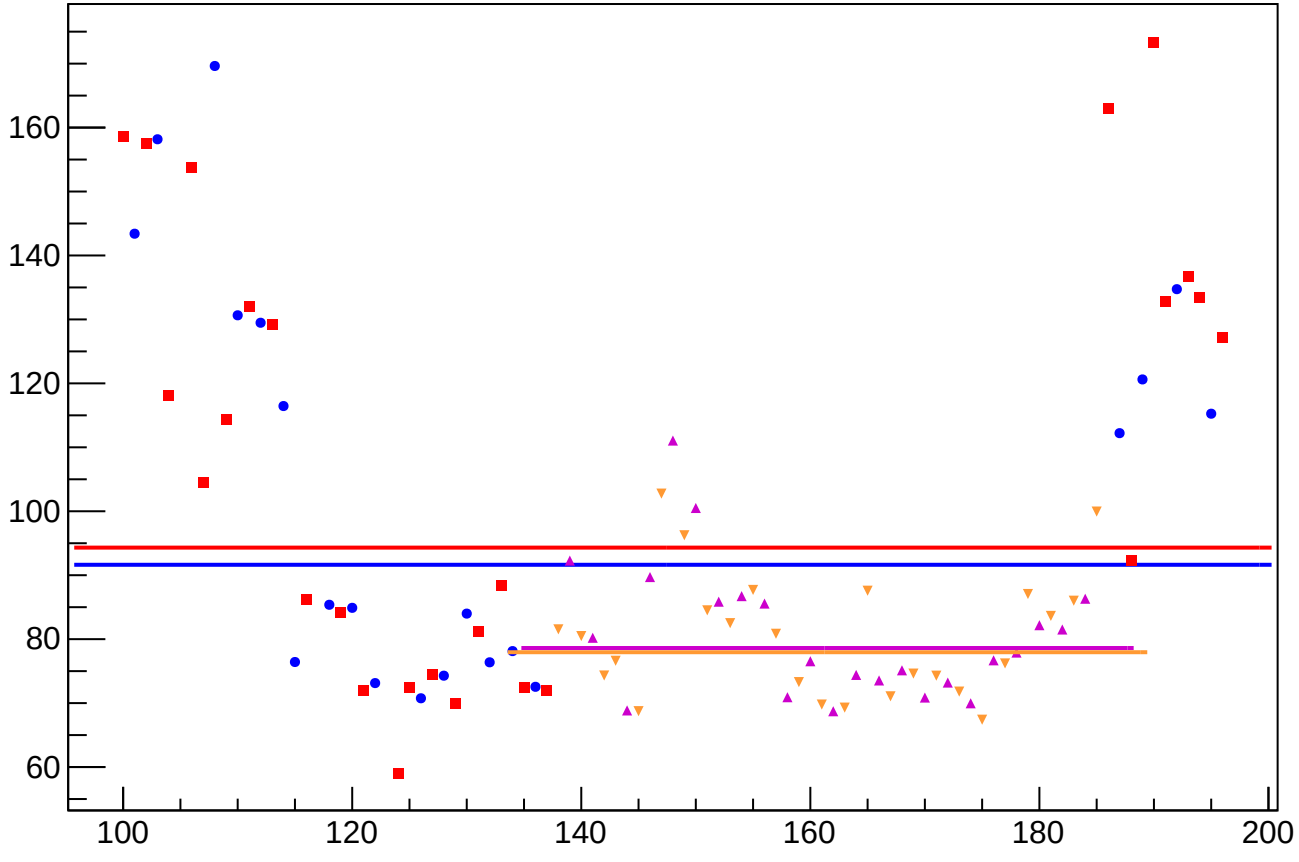
Right: -0.010+/-0.021 $\chi^2$/NDF: 65.1/45

In: -0.006+/-0.016 $\chi^2$/NDF:46.4/42

Out: 0.020+/-0.015 $\chi^2$/NDF:63.4/50

All: 0.008+/-0.011 $\chi^2$/NDF: 111.1/93

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 91.631+/-0.022 $\chi^2$/NDF: 1433875.9/19

Left Out: 77.957+/-0.013 $\chi^2$/NDF:439703.9/24

Right Out: 94.316+/-0.020 $\chi^2$/NDF: 1846446.6/25

Left In: 78.615+/-0.013 $\chi^2$/NDF:497808.4/22

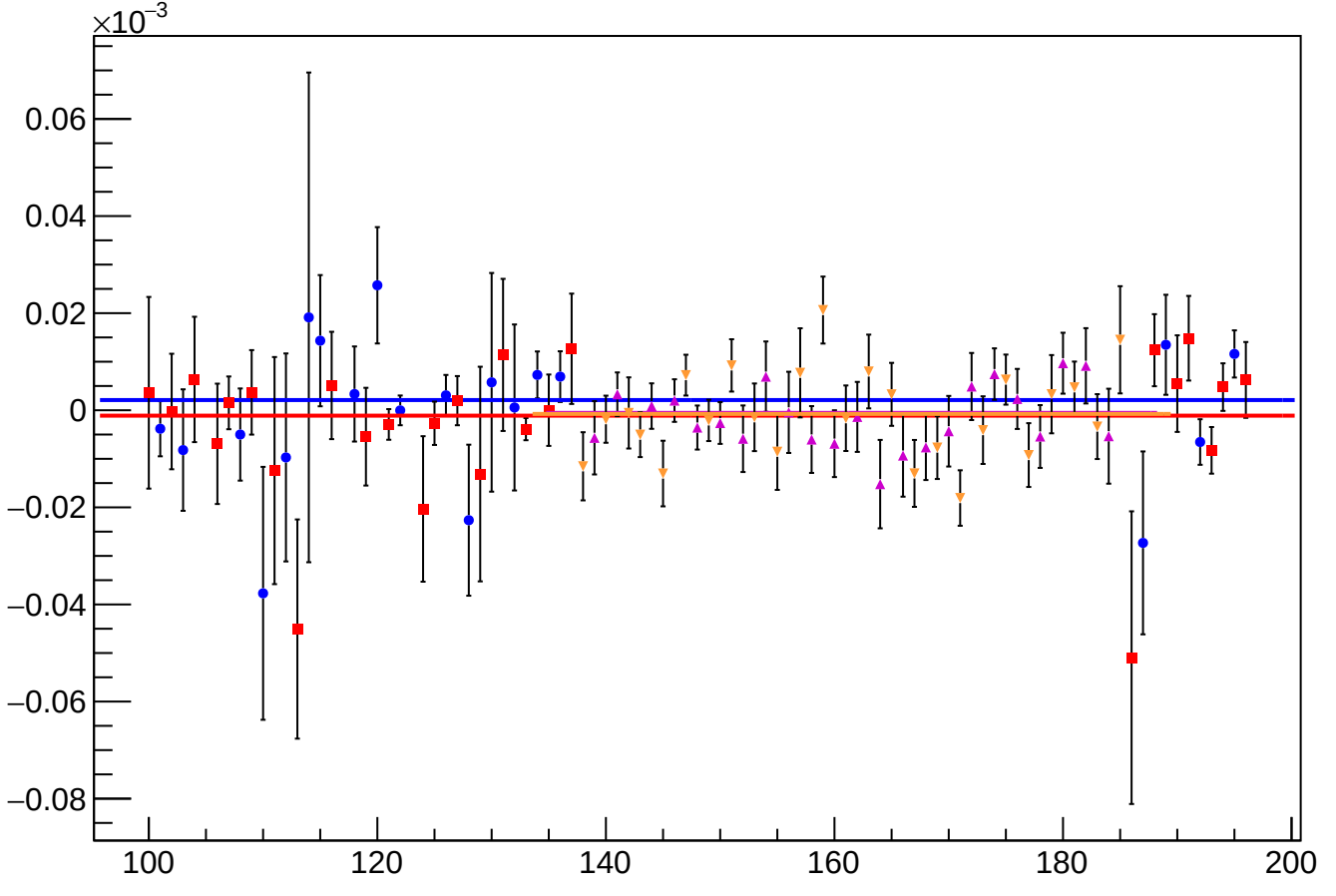
Left: 78.273+/-0.009 $\chi^2$/NDF: 938817.0/47

Right: 93.058+/-0.015 $\chi^2$/NDF: 3288508.6/45

In: 82.118+/-0.011 $\chi^2$/NDF:2196247.5/42

Out: 82.516+/-0.011 $\chi^2$/NDF:2753958.5/50

All: 82.326+/-0.008 $\chi^2$/NDF: 4950864.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:47.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.4/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:18.6/22

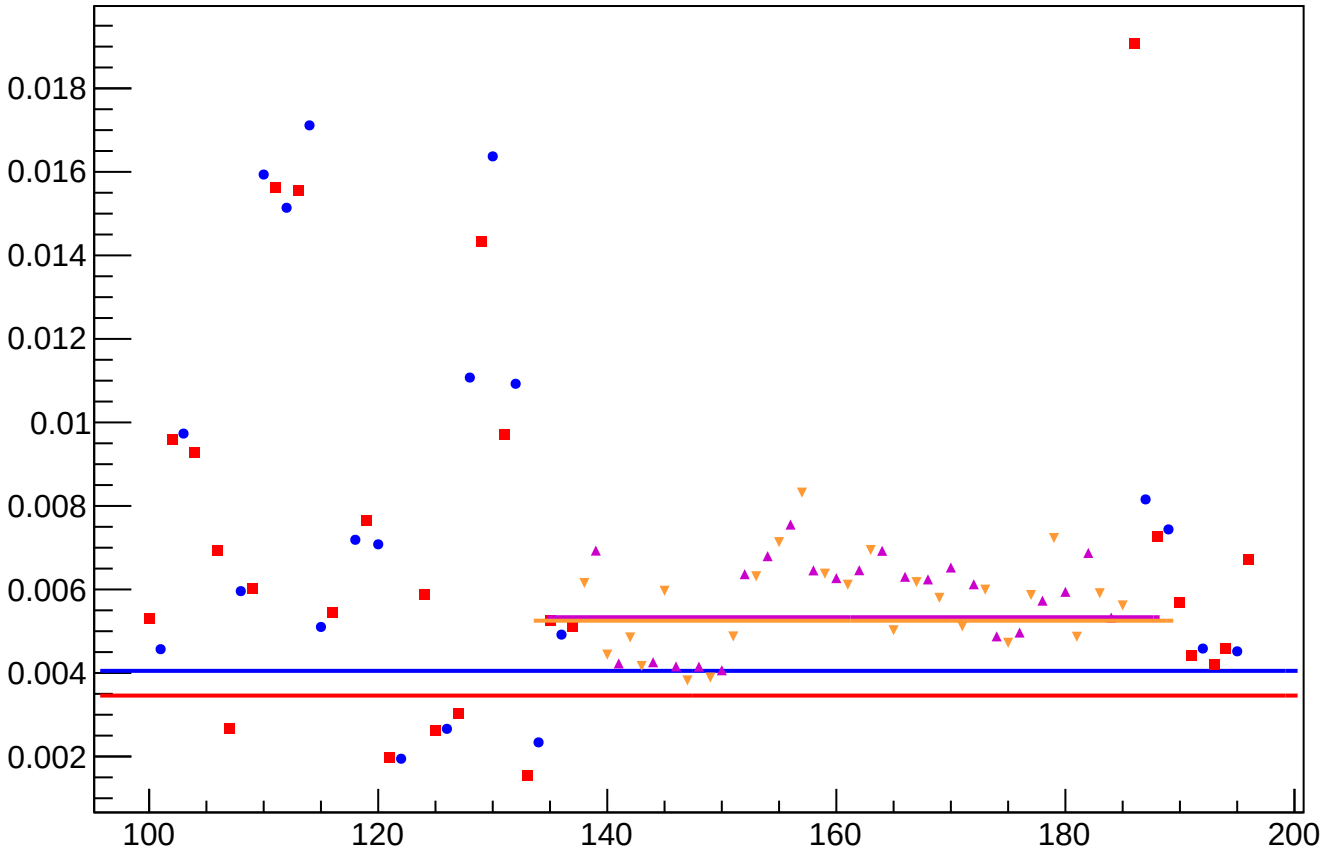
Left: -0.000+/-0.000 $\chi^2$/NDF: 66.2/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 54.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:46.2/42

Out: -0.000+/-0.000 $\chi^2$/NDF:74.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 121.5/93




Right In: 0.004+/-0.000 $\chi^2$/NDF: 5096812.0/19

Left Out: 0.005+/-0.000 $\chi^2$/NDF:1511867.7/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 7490910.4/25

Left In: 0.005+/-0.000 $\chi^2$/NDF:1508187.9/22

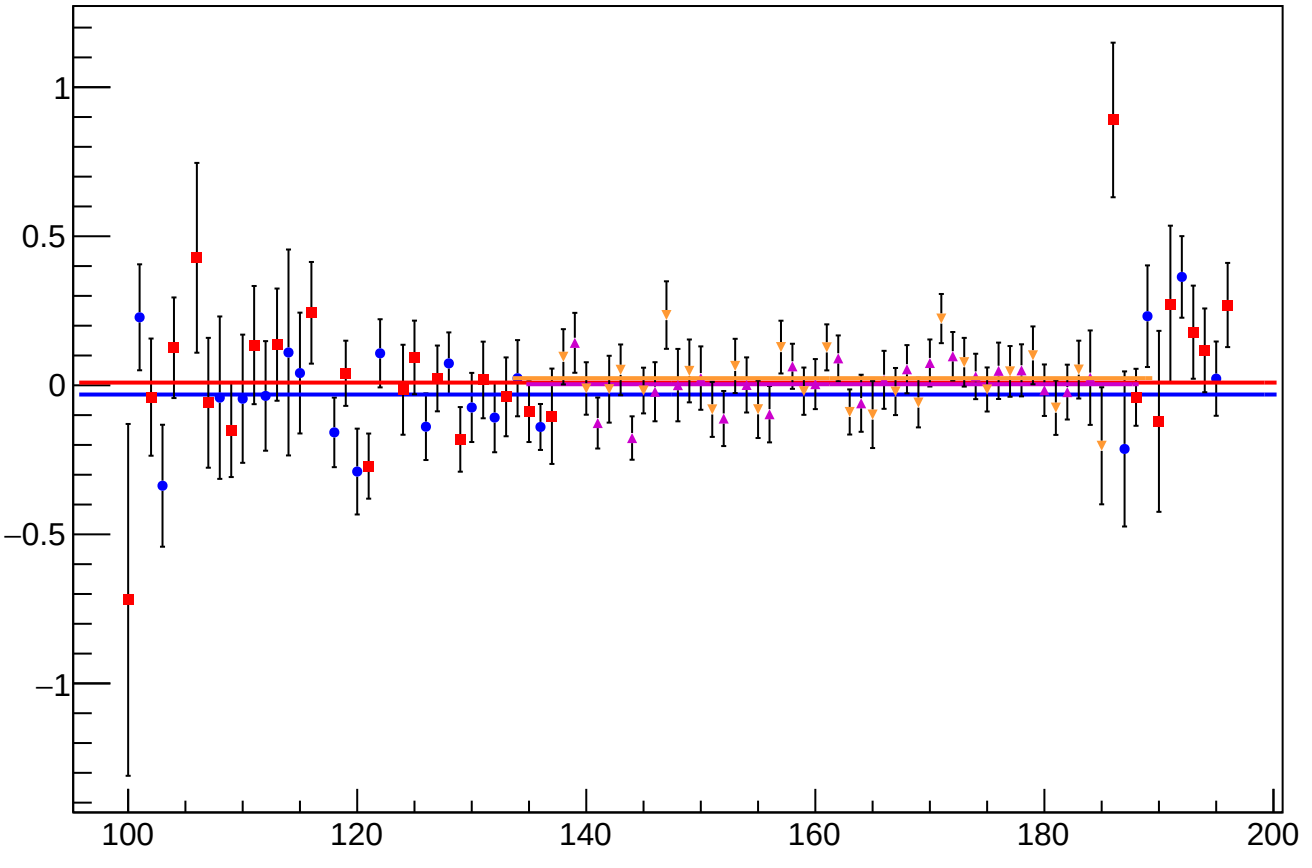
Left: 0.005+/-0.000 $\chi^2$/NDF: 3024442.1/47

Right: 0.004+/-0.000 $\chi^2$/NDF: 12768664.7/45

In: 0.005+/-0.000 $\chi^2$/NDF:7434037.9/42

Out: 0.004+/-0.000 $\chi^2$/NDF:11124531.5/50

All: 0.005+/-0.000 $\chi^2$/NDF: 18783059.3/93




Right In: -0.031+/-0.031 $\chi^2$/NDF: 26.6/19

Left Out: 0.024+/-0.018 $\chi^2$/NDF:25.5/24

Right Out: 0.009+/-0.029 $\chi^2$/NDF: 37.6/25

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.9/22

Left: 0.014+/-0.013 $\chi^2$/NDF: 45.0/47

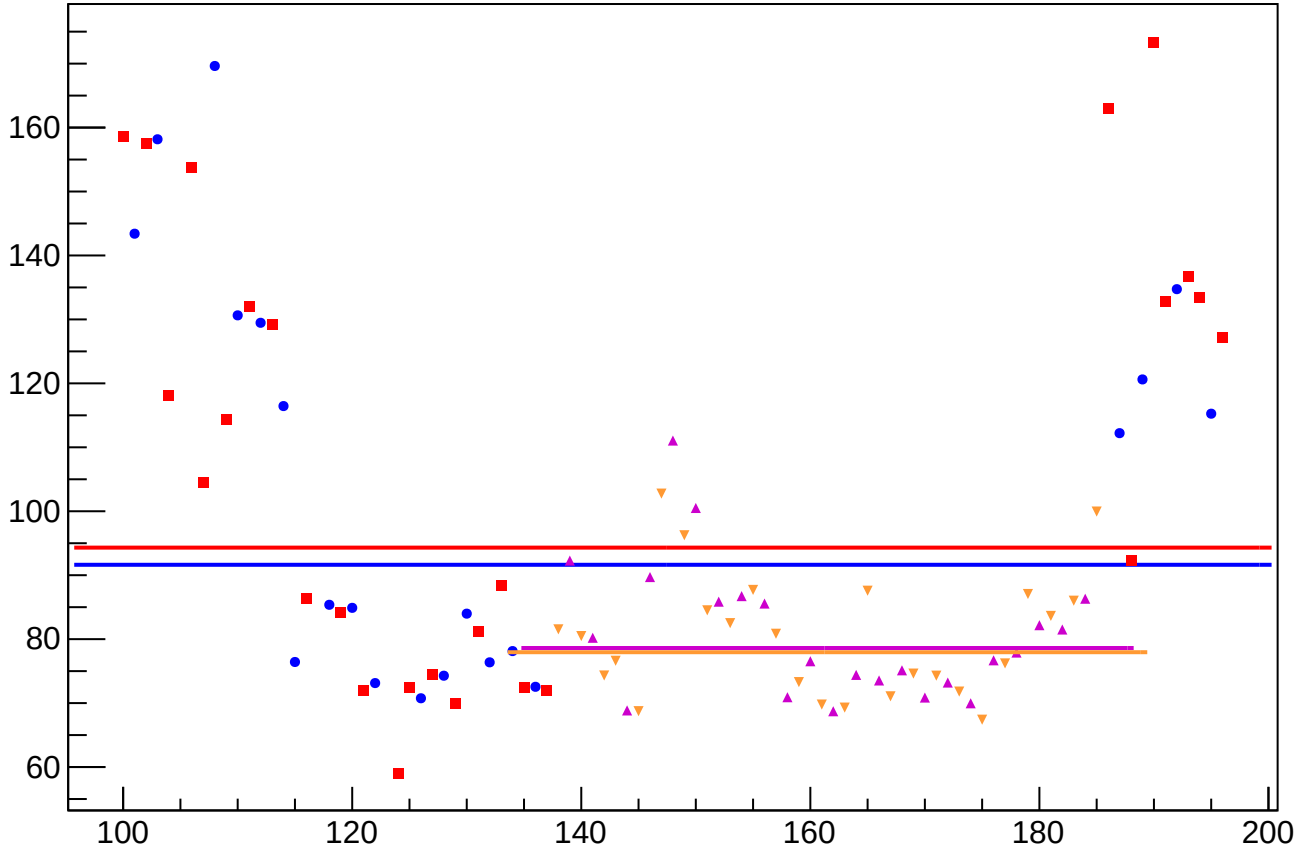
Right: -0.010+/-0.021 $\chi^2$/NDF: 65.1/45

In: -0.006+/-0.016 $\chi^2$/NDF:46.4/42

Out: 0.020+/-0.015 $\chi^2$/NDF:63.4/50

All: 0.008+/-0.011 $\chi^2$/NDF: 111.1/93

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 91.628+/-0.022 $\chi^2$/NDF: 1433911.3/19

Left Out: 77.957+/-0.013 $\chi^2$/NDF:439744.9/24

Right Out: 94.313+/-0.020 $\chi^2$/NDF: 1846477.7/25

Left In: 78.614+/-0.013 $\chi^2$/NDF:497846.3/22

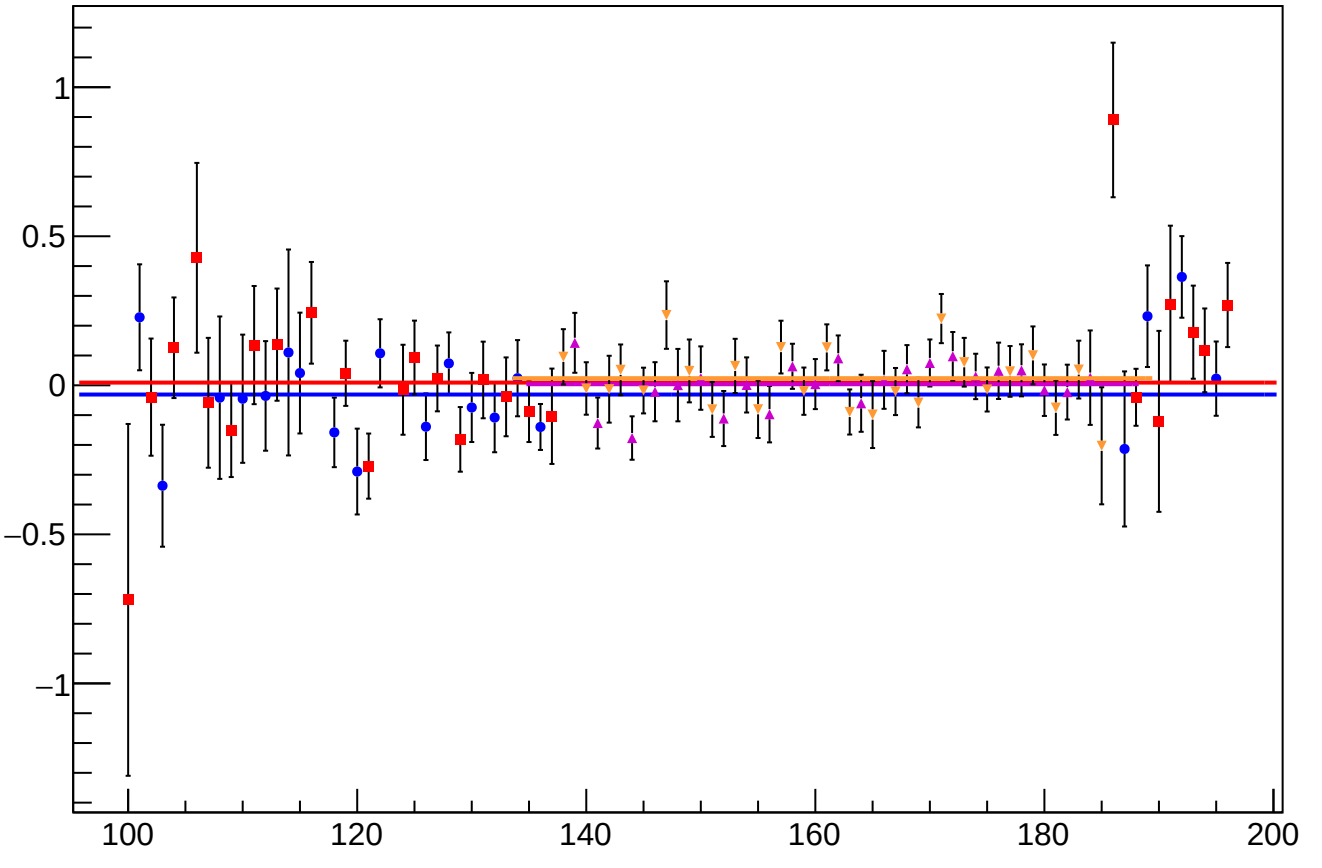
Left: 78.273+/-0.009 $\chi^2$/NDF: 938894.7/47

Right: 93.055+/-0.015 $\chi^2$/NDF: 3288577.6/45

In: 82.117+/-0.011 $\chi^2$/NDF:2196262.6/42

Out: 82.515+/-0.011 $\chi^2$/NDF:2753951.4/50

All: 82.325+/-0.008 $\chi^2$/NDF: 4950873.7/93




Right In: -0.031+/-0.031 $\chi^2$/NDF: 26.6/19

Left Out: 0.024+/-0.018 $\chi^2$/NDF:25.5/24

Right Out: 0.009+/-0.029 $\chi^2$/NDF: 37.6/25

Left In: 0.004+/-0.019 $\chi^2$/NDF:18.9/22

Left: 0.014+/-0.013 $\chi^2$/NDF: 45.0/47

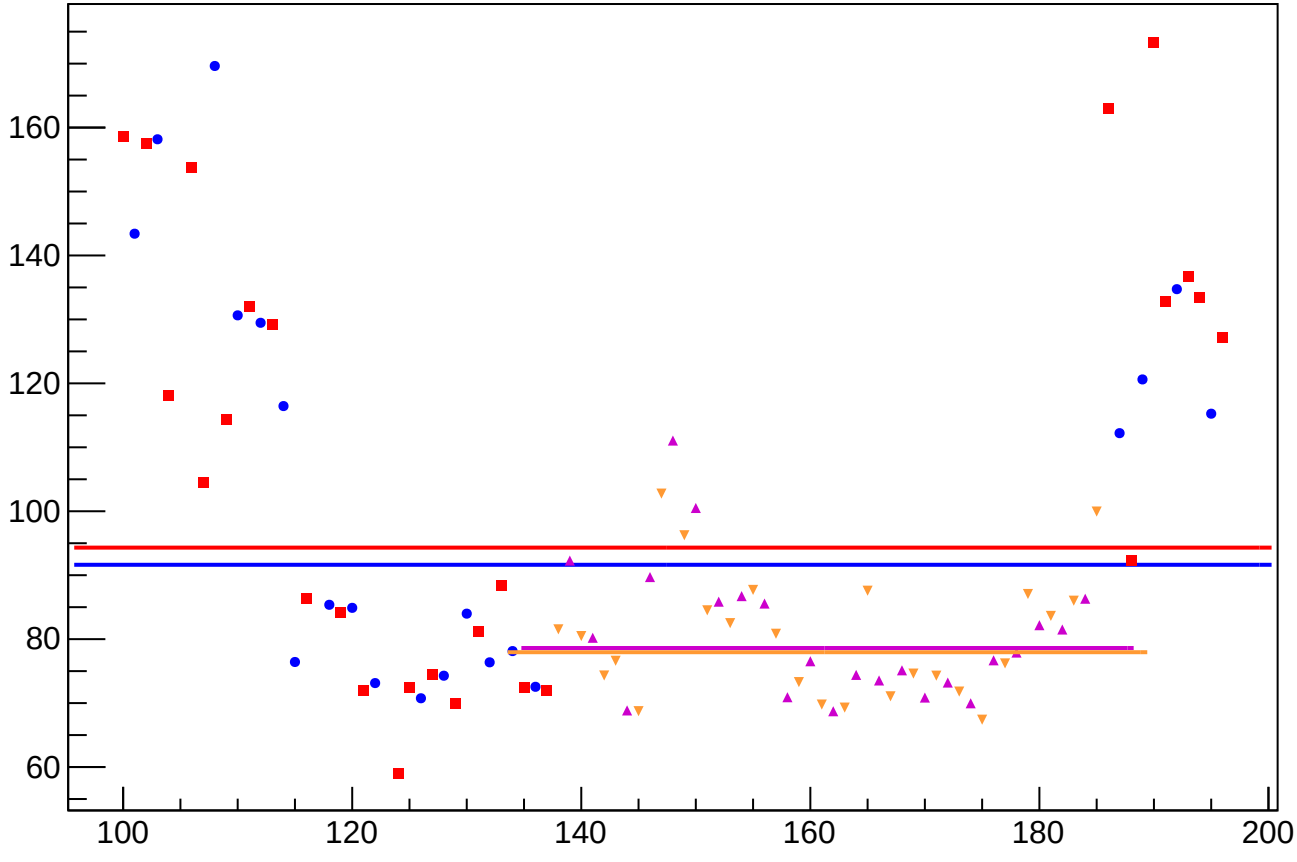
Right: -0.010+/-0.021 $\chi^2$/NDF: 65.1/45

In: -0.006+/-0.016 $\chi^2$/NDF:46.4/42

Out: 0.020+/-0.015 $\chi^2$/NDF:63.4/50

All: 0.008+/-0.011 $\chi^2$/NDF: 111.1/93

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 91.628+/-0.022 $\chi^2$/NDF: 1433911.3/19

Left Out: 77.957+/-0.013 $\chi^2$/NDF:439744.9/24

Right Out: 94.313+/-0.020 $\chi^2$/NDF: 1846477.7/25

Left In: 78.614+/-0.013 $\chi^2$/NDF:497846.3/22

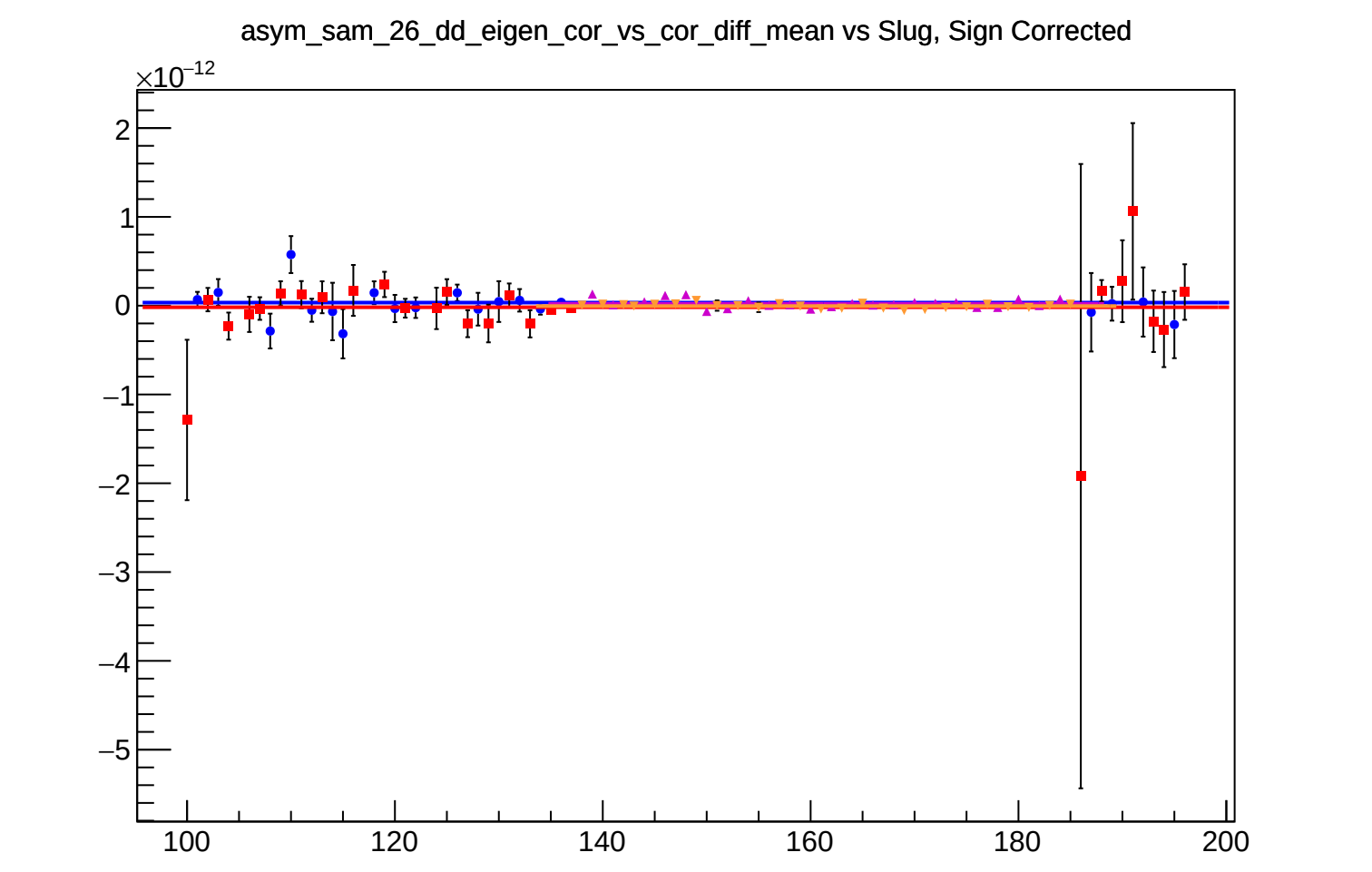
Left: 78.273+/-0.009 $\chi^2$/NDF: 938894.7/47

Right: 93.055+/-0.015 $\chi^2$/NDF: 3288577.6/45

In: 82.117+/-0.011 $\chi^2$/NDF:2196262.6/42

Out: 82.515+/-0.011 $\chi^2$/NDF:2753951.4/50

All: 82.325+/-0.008 $\chi^2$/NDF: 4950873.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:13.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:40.1/22

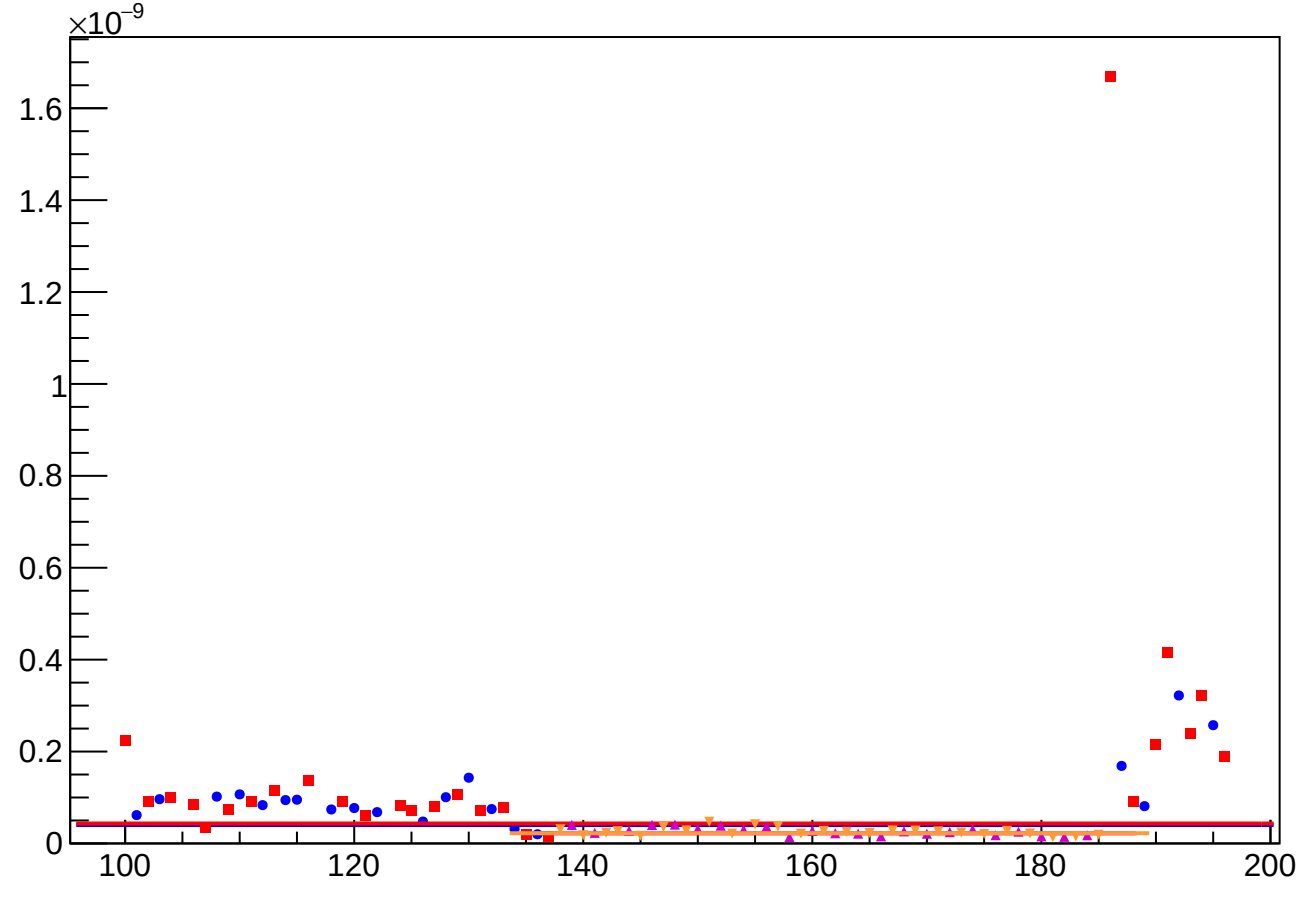
Left: 0.000+/-0.000 $\chi^2$/NDF: 61.2/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 43.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:57.3/42

Out: -0.000+/-0.000 $\chi^2$/NDF:36.5/50

All: 0.000+/-0.000 $\chi^2$/NDF: 104.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5448192.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2302790.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7468878.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2802318.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5106315.5/47

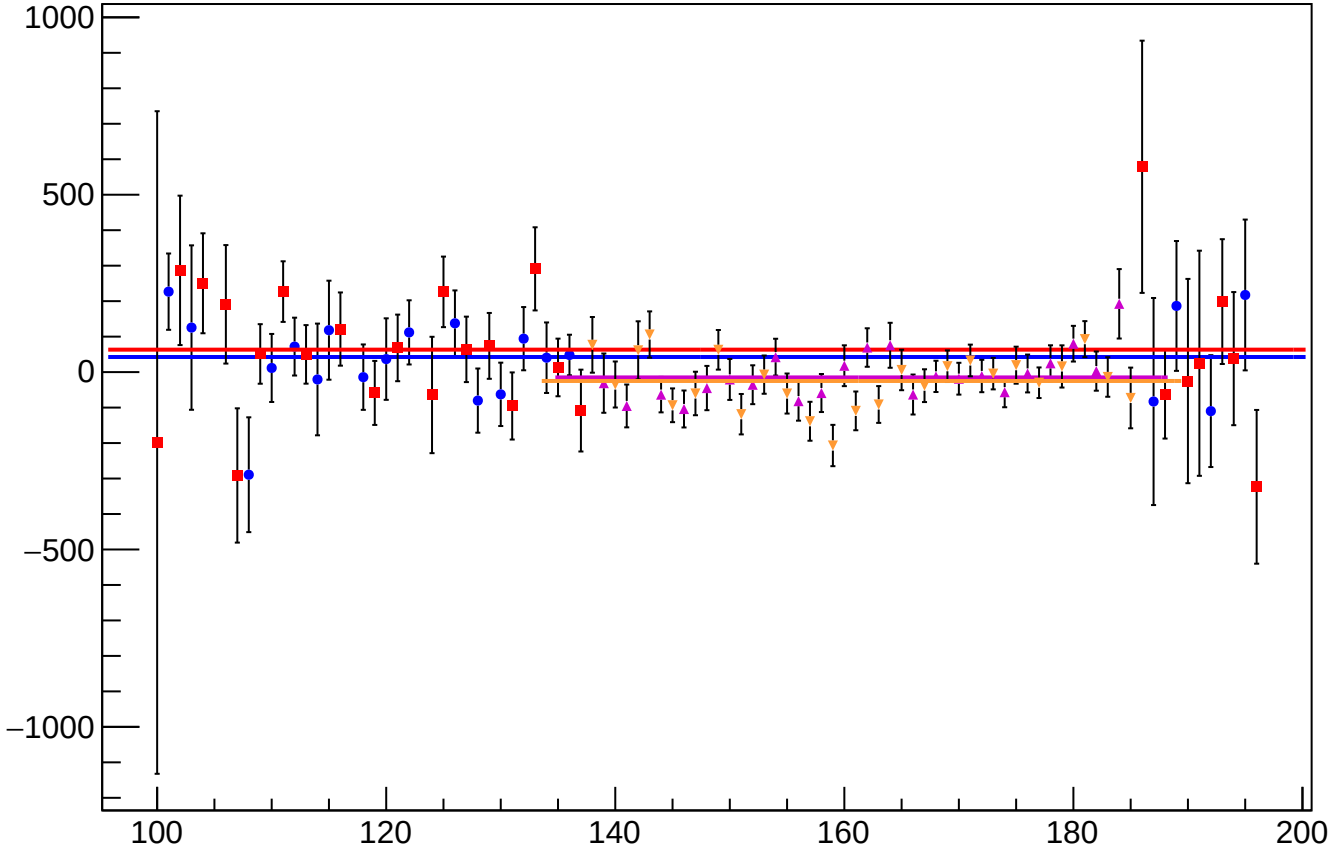
Right: 0.000+/-0.000 $\chi^2$/NDF: 12942126.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:9670397.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11535511.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21207057.3/93

# reg_asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 42.548+/-23.502 $\chi^2$/NDF: 16.0/19

Left Out: -24.988+/-10.888 $\chi^2$/NDF:43.1/24

Right Out: 63.281+/-23.229 $\chi^2$/NDF: 32.4/25

Left In: -14.994+/-11.218 $\chi^2$/NDF:24.7/22

Left: -20.140+/-7.813 $\chi^2$/NDF: 68.2/47

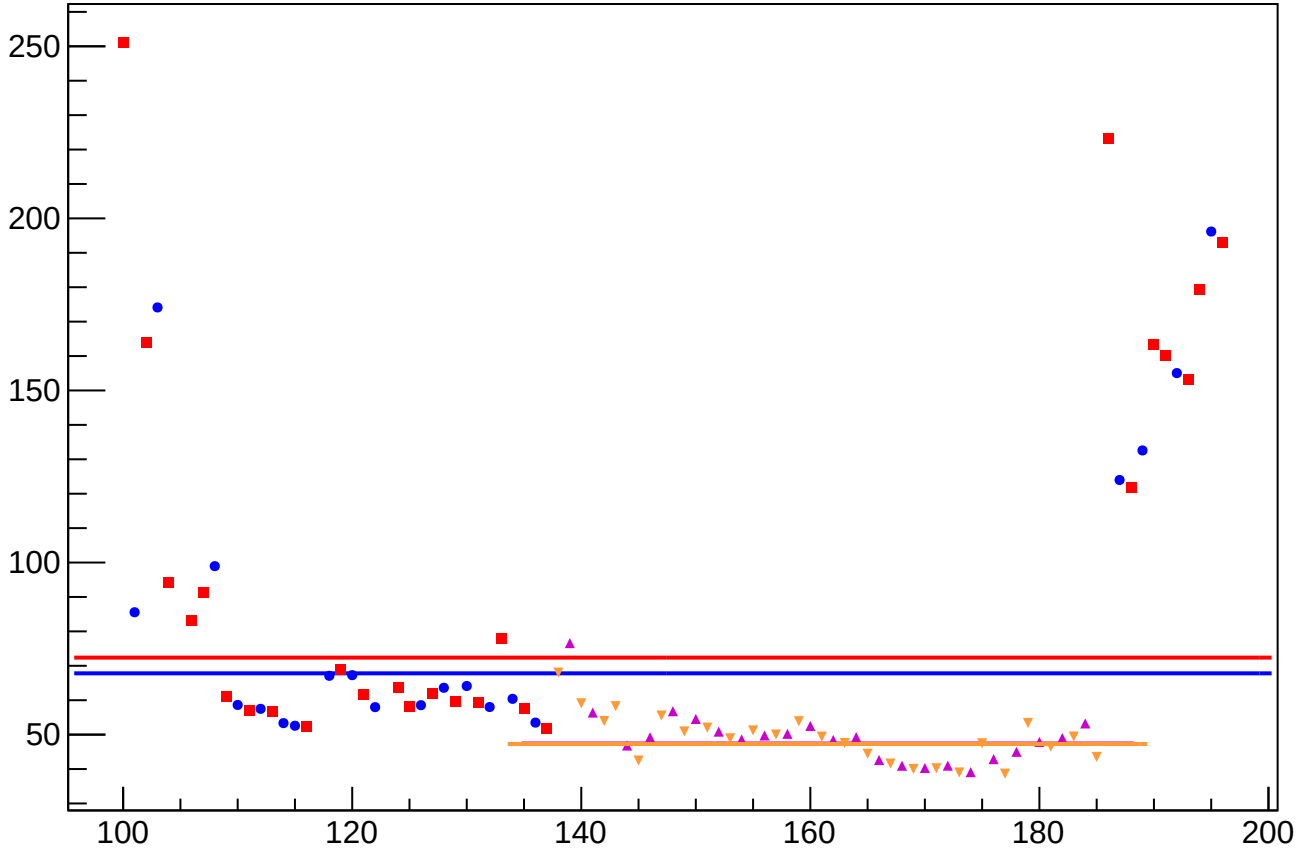
Right: 53.035+/-16.521 $\chi^2$/NDF: 48.8/45

In: -4.316+/-10.124 $\chi^2$/NDF:45.6/42

Out: -9.089+/-9.858 $\chi^2$/NDF:87.4/50

All: -6.766+/-7.063 $\chi^2$/NDF: 133.1/93

# reg_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 67.807+/-0.017 $\chi^2$/NDF: 2518995.3/19

Left Out: 47.284+/-0.008 $\chi^2$/NDF:717249.8/24

Right Out: 72.378+/-0.016 $\chi^2$/NDF: 3805500.8/25

Left In: 47.425+/-0.008 $\chi^2$/NDF:655736.9/22

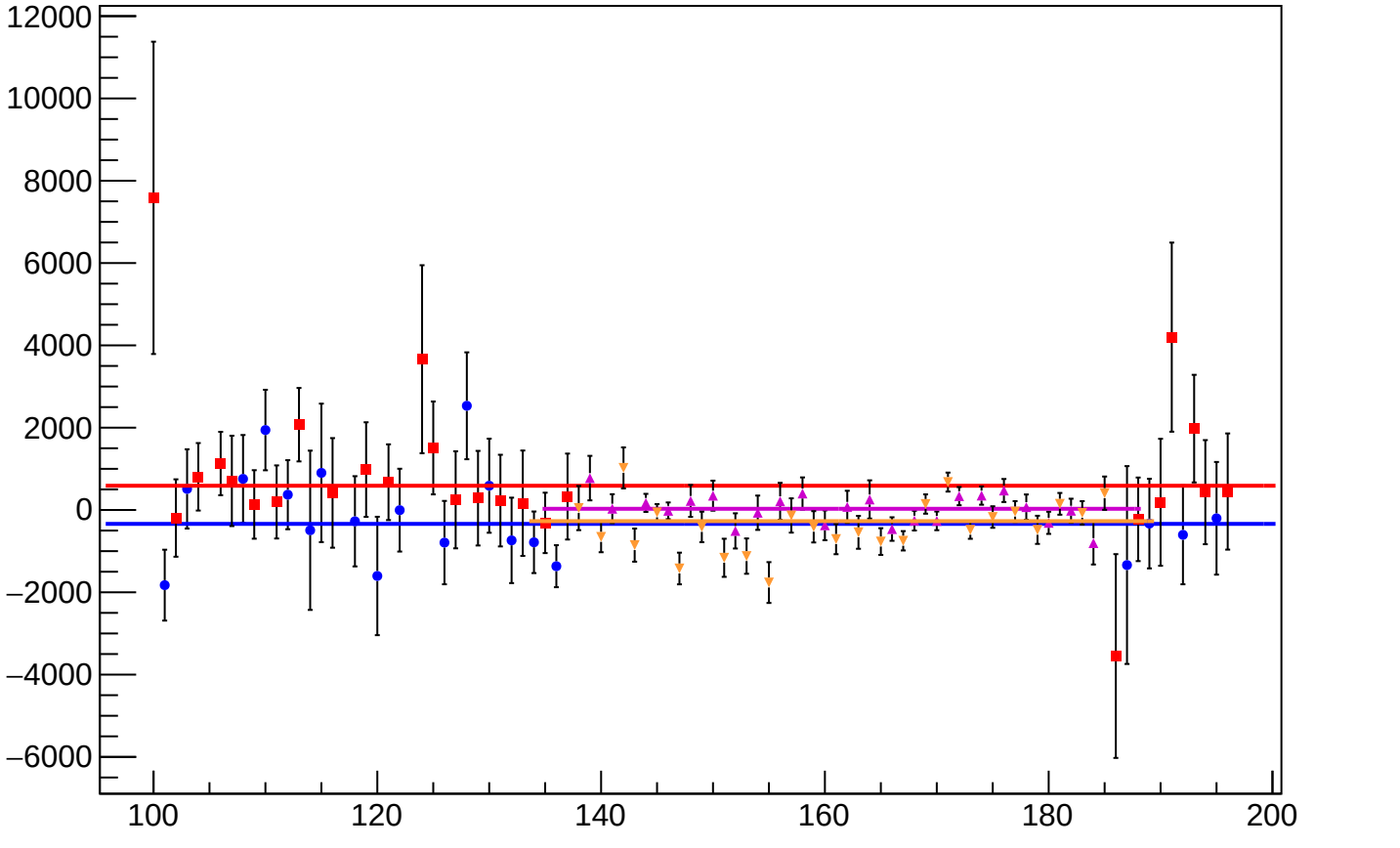
Left: 47.352+/-0.006 $\chi^2$/NDF: 1373150.4/47

Right: 70.119+/-0.012 $\chi^2$/NDF: 6362767.1/45

In: 51.207+/-0.007 $\chi^2$/NDF:4399881.9/42

Out: 51.803+/-0.007 $\chi^2$/NDF:6436451.4/50

All: 51.513+/-0.005 $\chi^2$/NDF: 10839894.6/93




Right In: -337.545+/-224.586 $\chi^2$/NDF: 22.9/19

Left Out: -271.031+/-62.346 $\chi^2$/NDF:73.9/24

Right Out: 589.048+/-214.306 $\chi^2$/NDF: 19.6/25

Left In: 29.200+/-62.671 $\chi^2$/NDF:24.4/22

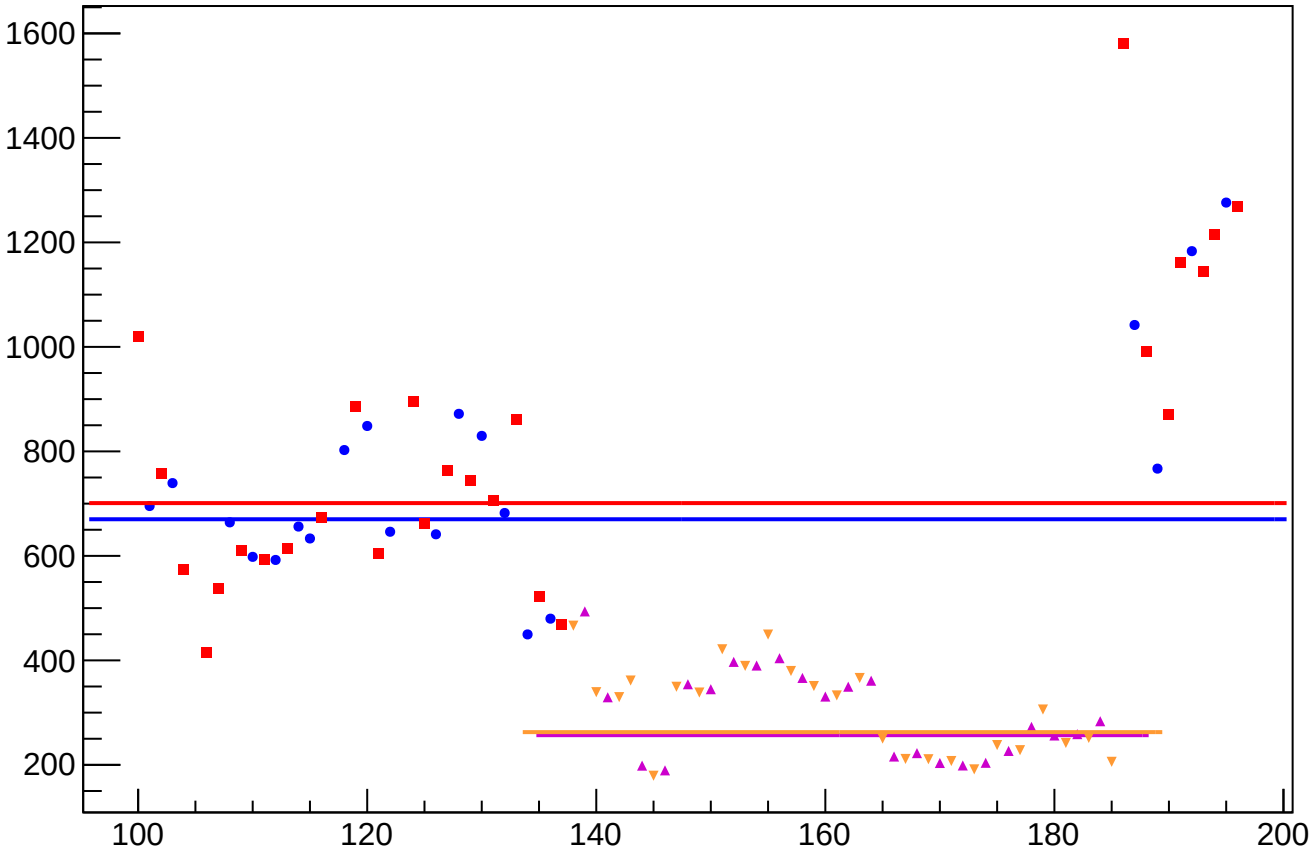
Left: -121.695+/-44.200 $\chi^2$/NDF: 109.8/47

Right: 147.443+/-155.044 $\chi^2$/NDF: 51.5/45

In: 2.706+/-60.364 $\chi^2$/NDF:49.8/42

Out: -203.919+/-59.864 $\chi^2$/NDF:108.4/50

All: -101.467+/-42.506 $\chi^2$/NDF: 164.1/93




Right In: 670.102+/-0.159 $\chi^2$/NDF: 1463524.0/19

Left Out: 262.679+/-0.044 $\chi^2$/NDF:2893255.4/24

Right Out: 701.023+/-0.152 $\chi^2$/NDF: 2213730.9/25

Left In: 256.842+/-0.044 $\chi^2$/NDF:2639200.9/22

Left: 259.776+/-0.031 $\chi^2$/NDF: 5541174.7/47

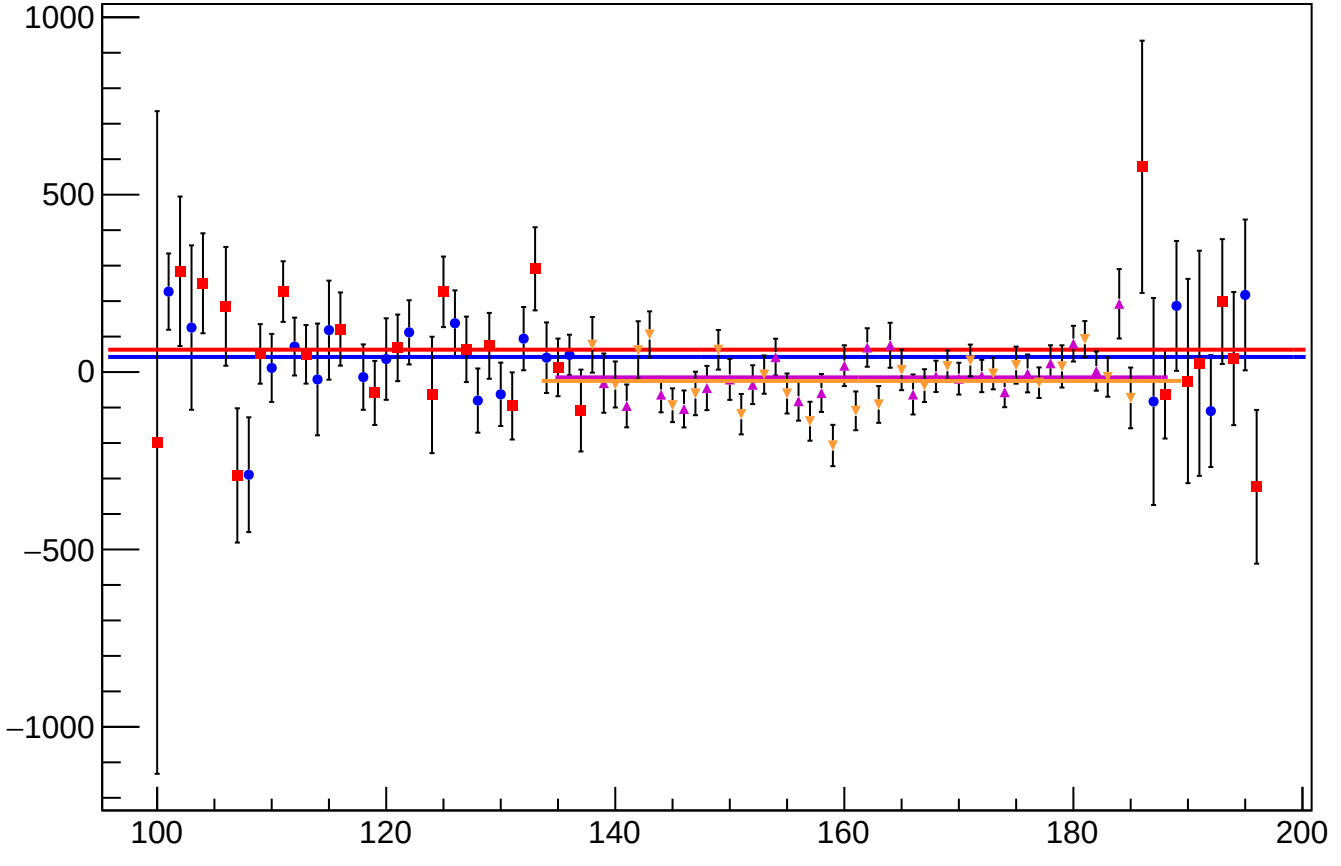
Right: 686.286+/-0.110 $\chi^2$/NDF: 3697099.0/45

In: 286.697+/-0.043 $\chi^2$/NDF:10385373.2/42

Out: 296.883+/-0.042 $\chi^2$/NDF:12821503.5/50

All: 291.833+/-0.030 $\chi^2$/NDF: 23235585.6/93

# cor_asym_sam_37_dd_mean vs Slug, Sign Corrected




Right In: 42.542+/-23.502 $\chi^2$/NDF: 16.0/19

Left Out: -24.985+/-10.888 $\chi^2$/NDF:43.1/24

Right Out: 63.113+/-23.230 $\chi^2$/NDF: 32.4/25

Left In: -14.992+/-11.218 $\chi^2$/NDF:24.7/22

Left: -20.138+/-7.813 $\chi^2$/NDF: 68.2/47

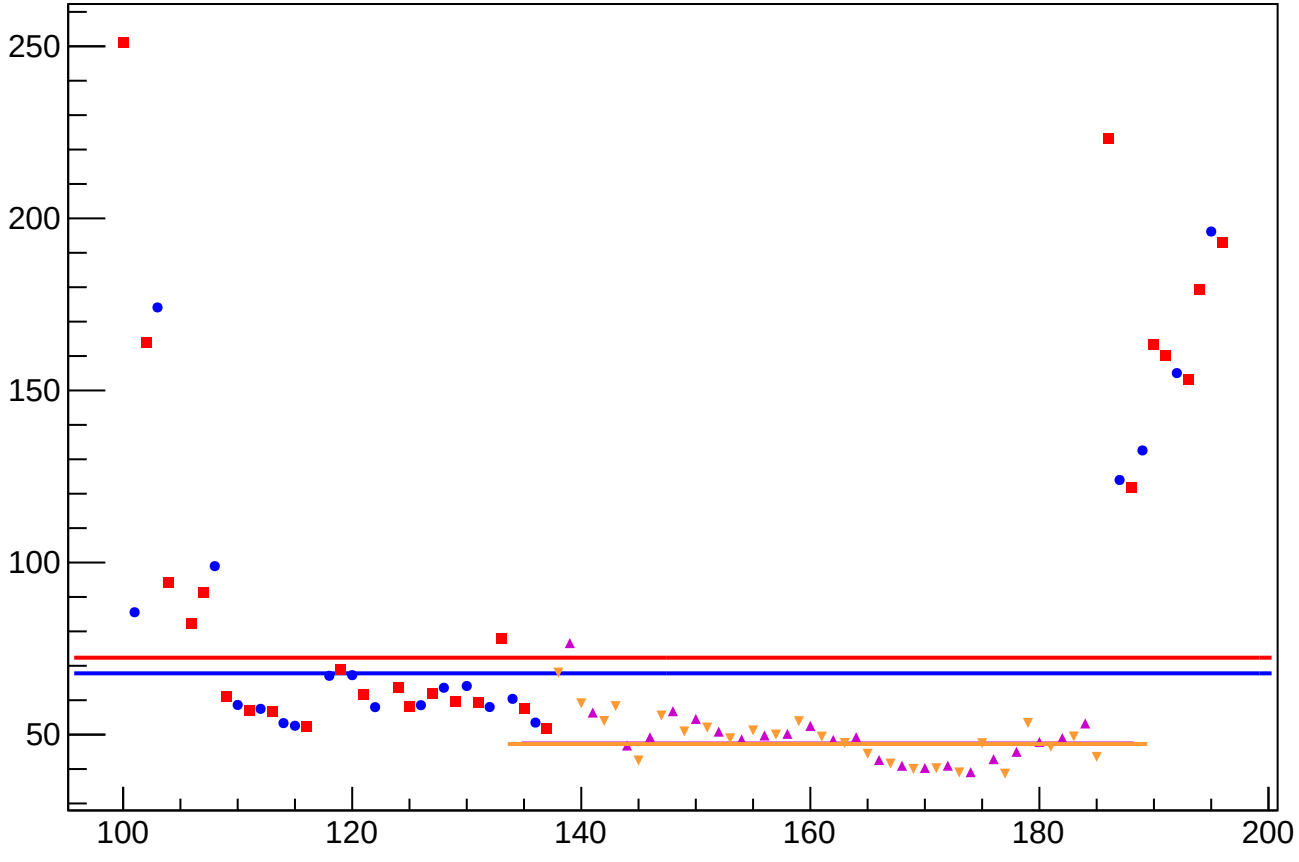
Right: 52.947+/-16.521 $\chi^2$/NDF: 48.7/45

In: -4.316+/-10.124 $\chi^2$/NDF:45.6/42

Out: -9.118+/-9.858 $\chi^2$/NDF:87.2/50

All: -6.781+/-7.063 $\chi^2$/NDF: 132.9/93

# cor_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 67.807+/-0.017 $\chi^2$/NDF: 2518997.6/19

Left Out: 47.284+/-0.008 $\chi^2$/NDF:717249.7/24

Right Out: 72.357+/-0.016 $\chi^2$/NDF: 3804127.8/25

Left In: 47.425+/-0.008 $\chi^2$/NDF:655736.9/22

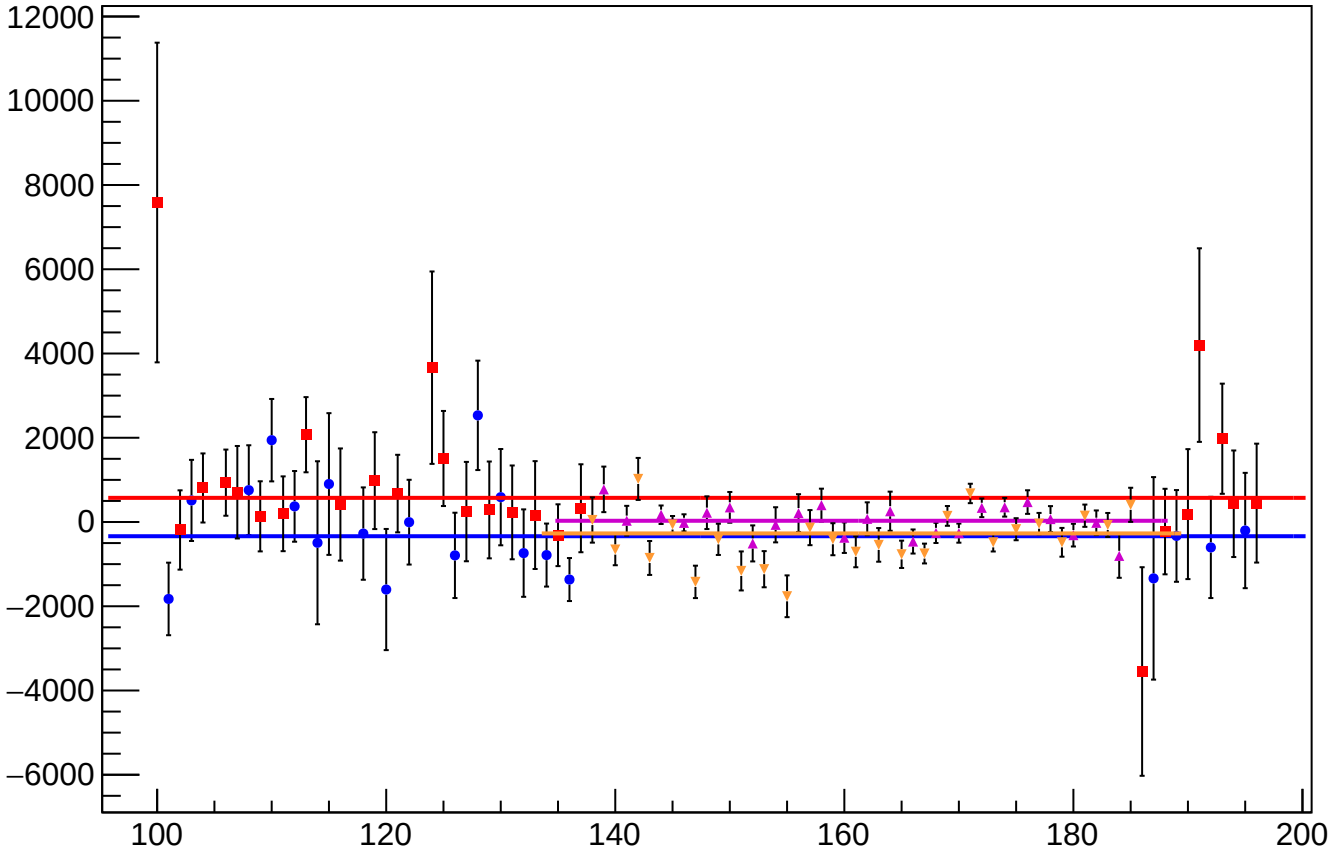
Left: 47.352+/-0.006 $\chi^2$/NDF: 1373150.3/47

Right: 70.109+/-0.012 $\chi^2$/NDF: 6361045.4/45

In: 51.207+/-0.007 $\chi^2$/NDF:4399883.7/42

Out: 51.799+/-0.007 $\chi^2$/NDF:6431721.3/50

All: 51.511+/-0.005 $\chi^2$/NDF: 10835116.6/93




Right In: -337.543+/-224.588 $\chi^2$/NDF: 22.9/19

Left Out: -271.027+/-62.346 $\chi^2$/NDF:73.9/24

Right Out: 573.322+/-214.643 $\chi^2$/NDF: 19.3/25

Left In: 29.202+/-62.671 $\chi^2$/NDF:24.4/22

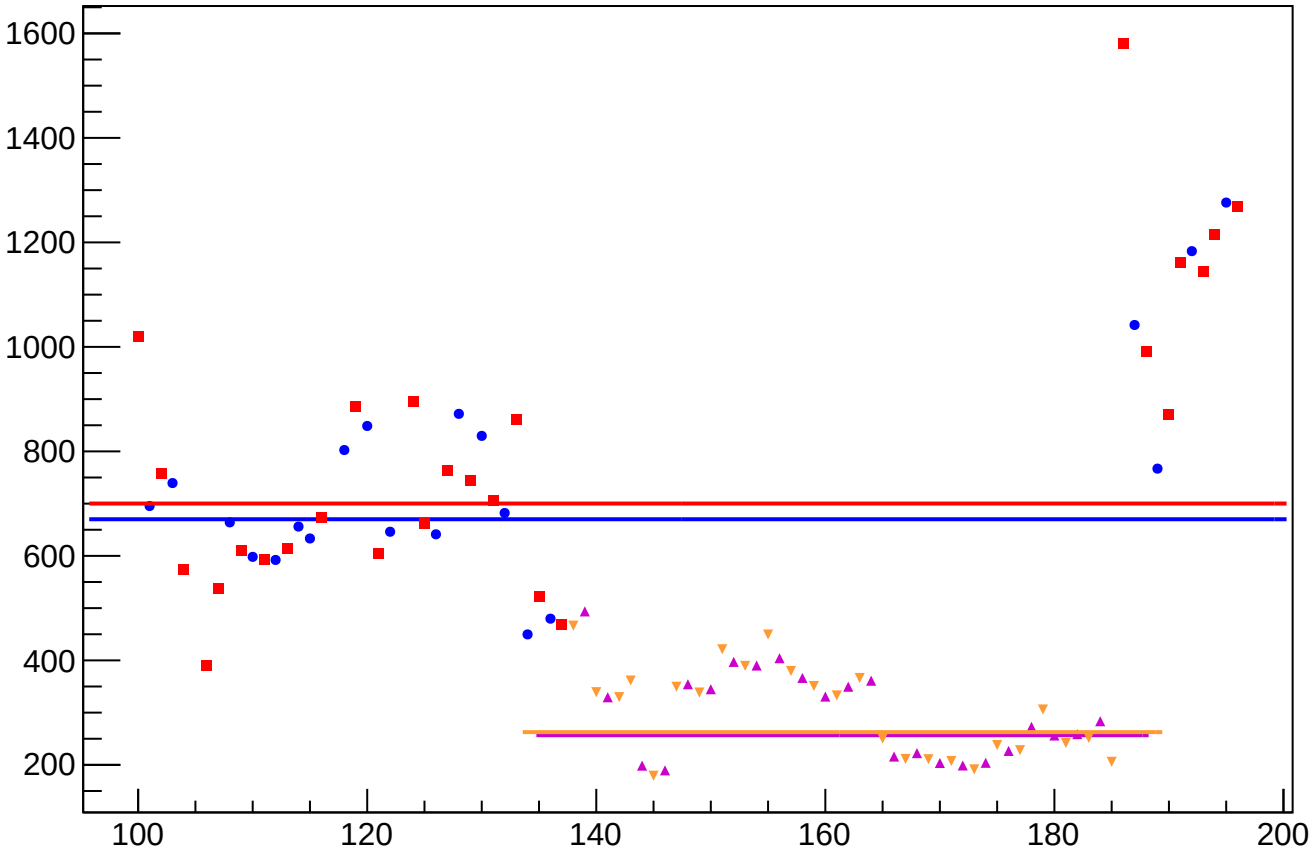
Left: -121.692+/-44.200 $\chi^2$/NDF: 109.8/47

Right: 138.503+/-155.172 $\chi^2$/NDF: 50.8/45

In: 2.708+/-60.364 $\chi^2$/NDF:49.8/42

Out: -205.332+/-59.871 $\chi^2$/NDF:107.5/50

All: -102.165+/-42.509 $\chi^2$/NDF: 163.3/93




Right In: 670.105+/-0.159 $\chi^2$/NDF: 1463545.1/19

Left Out: 262.679+/-0.044 $\chi^2$/NDF:2893257.1/24

Right Out: 700.177+/-0.152 $\chi^2$/NDF: 2248352.4/25

Left In: 256.842+/-0.044 $\chi^2$/NDF:2639196.2/22

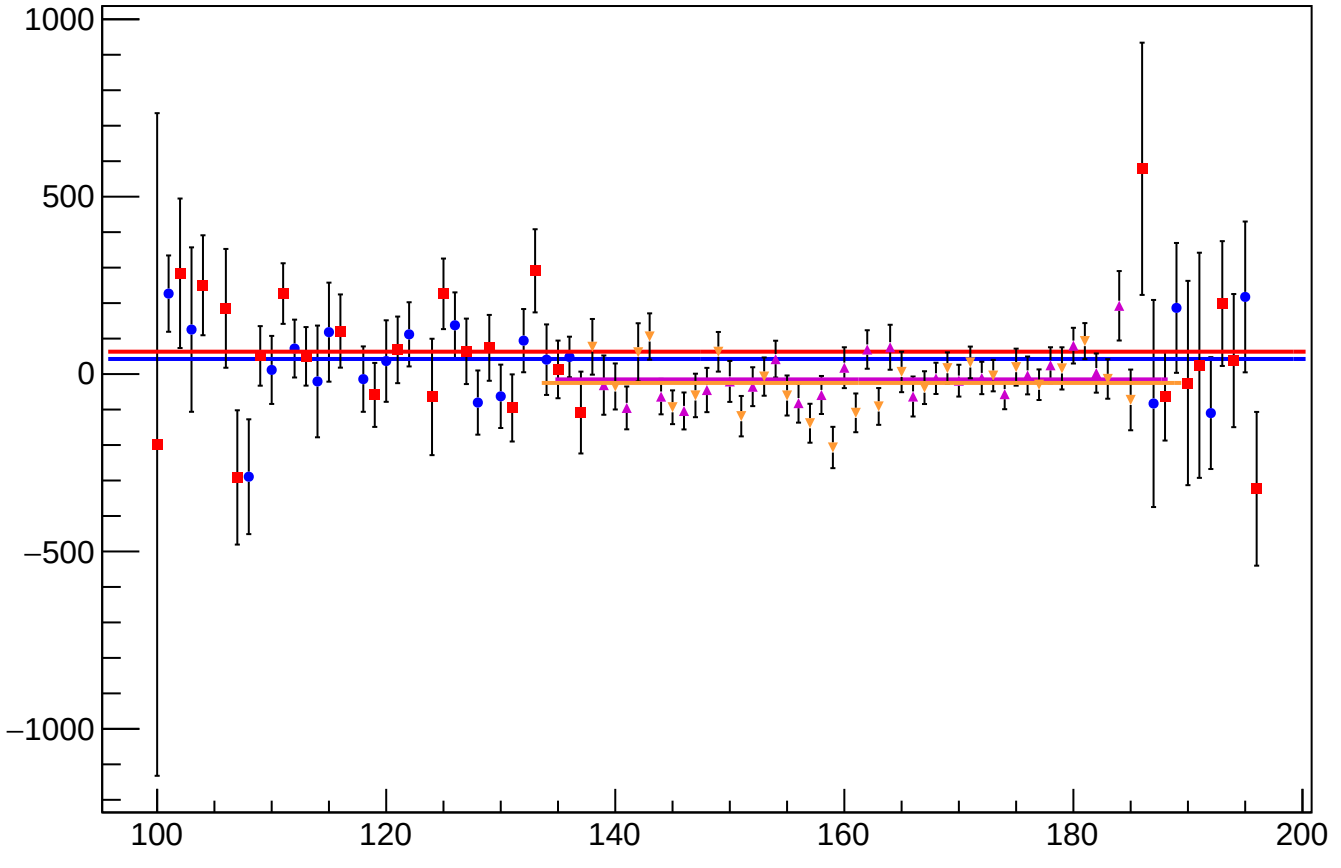
Left: 259.776+/-0.031 $\chi^2$/NDF: 5541171.4/47

Right: 685.822+/-0.110 $\chi^2$/NDF: 3730638.2/45

In: 286.697+/-0.043 $\chi^2$/NDF:10385417.6/42

Out: 296.718+/-0.042 $\chi^2$/NDF:12804153.4/50

All: 291.749+/-0.030 $\chi^2$/NDF: 23217355.2/93




Right In: 42.542+/-23.502 $\chi^2$/NDF: 16.0/19

Left Out: -24.985+/-10.888 $\chi^2$/NDF:43.1/24

Right Out: 63.113+/-23.230 $\chi^2$/NDF: 32.4/25

Left In: -14.992+/-11.218 $\chi^2$/NDF:24.7/22

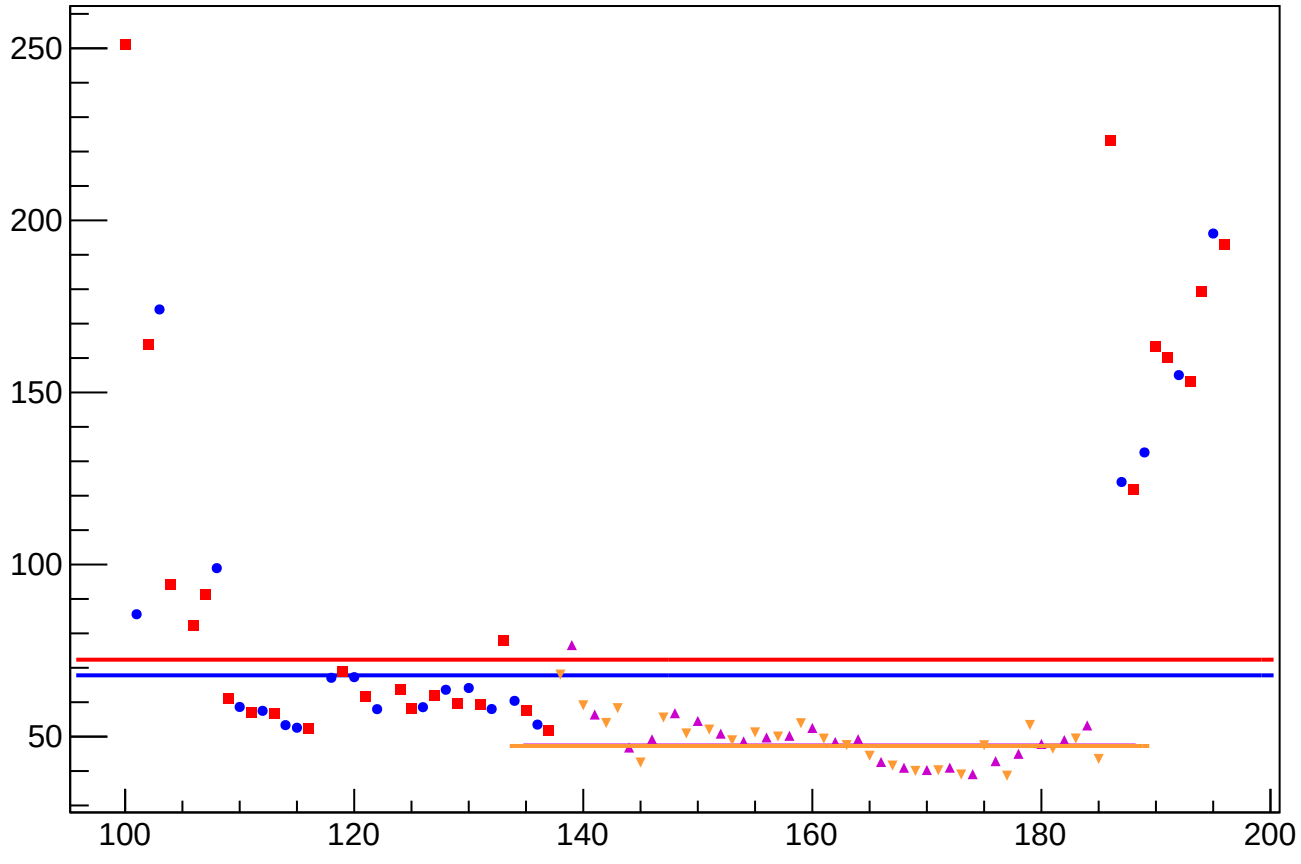
Left: -20.138+/-7.813 $\chi^2$/NDF: 68.2/47

Right: 52.947+/-16.521 $\chi^2$/NDF: 48.7/45

In: -4.316+/-10.124 $\chi^2$/NDF:45.6/42

Out: -9.118+/-9.858 $\chi^2$/NDF:87.2/50

All: -6.781+/-7.063 $\chi^2$/NDF: 132.9/93




Right In: 67.807+/-0.017 $\chi^2$/NDF: 2518997.6/19

Left Out: 47.284+/-0.008 $\chi^2$/NDF:717249.7/24

Right Out: 72.357+/-0.016 $\chi^2$/NDF: 3804127.8/25

Left In: 47.425+/-0.008 $\chi^2$/NDF:655736.9/22

Left: 47.352+/-0.006 $\chi^2$/NDF: 1373150.3/47

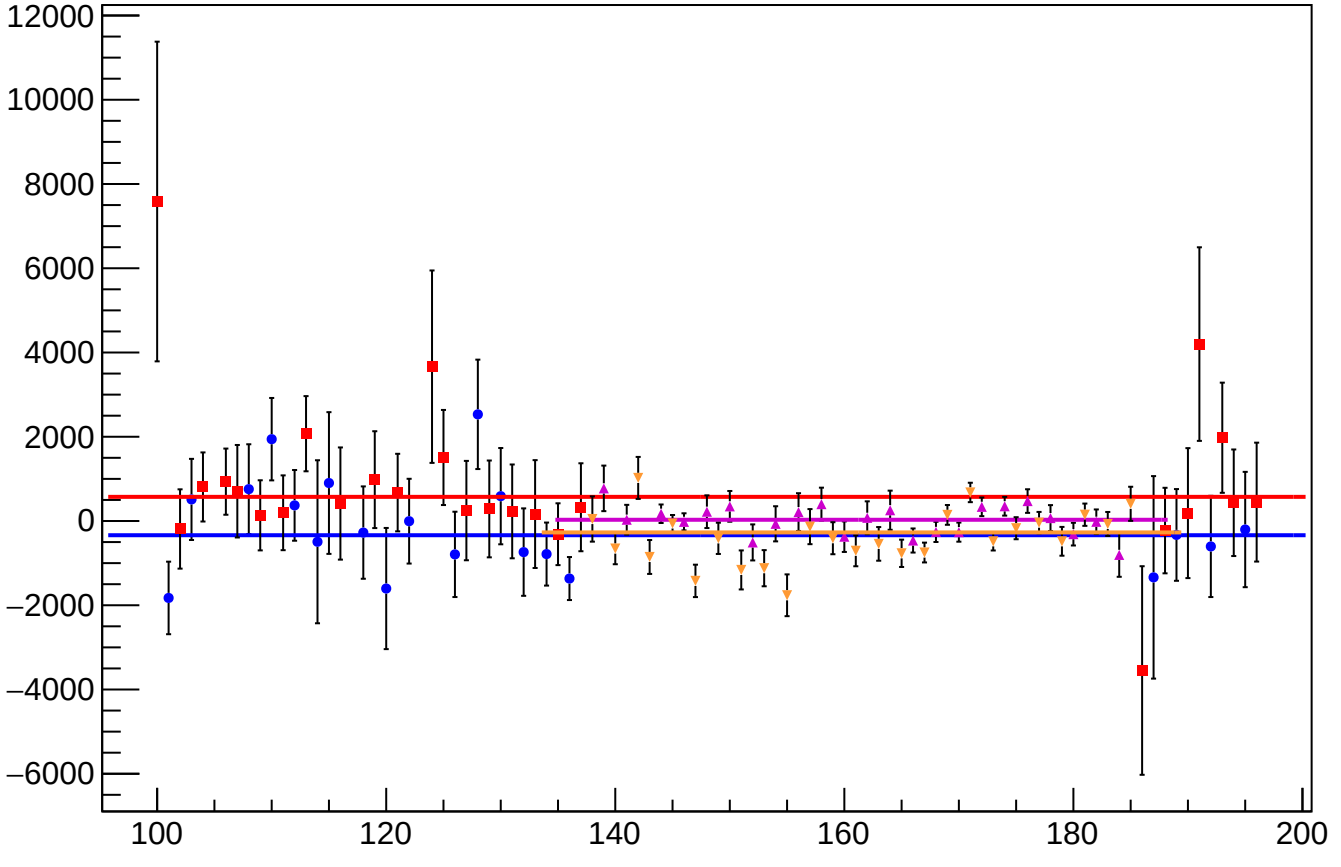
Right: 70.109+/-0.012 $\chi^2$/NDF: 6361045.4/45

In: 51.207+/-0.007 $\chi^2$/NDF:4399883.7/42

Out: 51.799+/-0.007 $\chi^2$/NDF:6431721.3/50

All: 51.511+/-0.005 $\chi^2$/NDF: 10835116.6/93

asym_sam_37_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -337.543+/-224.588 $\chi^2$/NDF: 22.9/19

Left Out: -271.027+/-62.346 $\chi^2$/NDF:73.9/24

Right Out: 573.322+/-214.643 $\chi^2$/NDF: 19.3/25

Left In: 29.202+/-62.671 $\chi^2$/NDF:24.4/22

Left: -121.692+/-44.200 $\chi^2$/NDF: 109.8/47

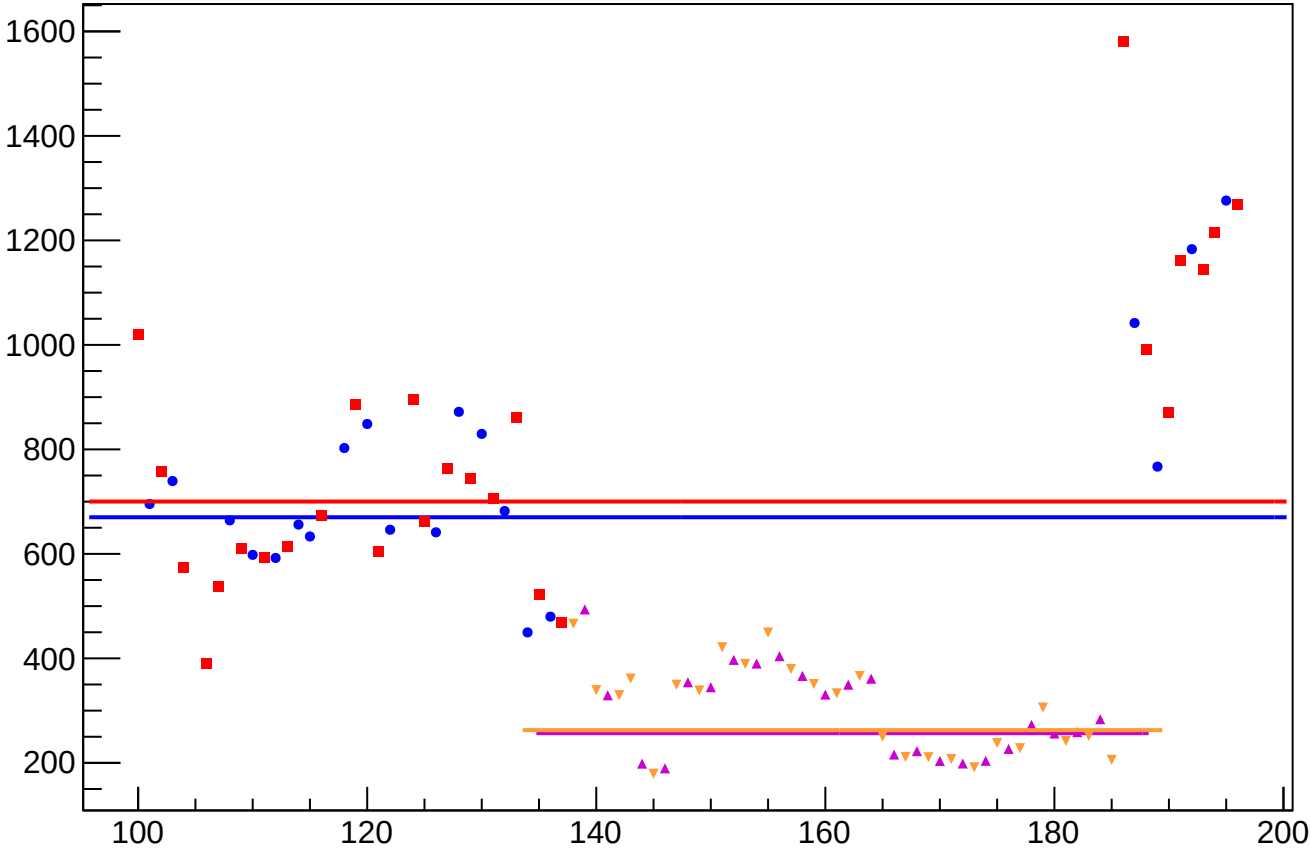
Right: 138.503+/-155.172 $\chi^2$/NDF: 50.8/45

In: 2.708+/-60.364 $\chi^2$/NDF:49.8/42

Out: -205.332+/-59.871 $\chi^2$/NDF:107.5/50

All: -102.165+/-42.509 $\chi^2$/NDF: 163.3/93

asym_sam_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 670.105+/-0.159 $\chi^2$/NDF: 1463545.1/19

Left Out: 262.679+/-0.044 $\chi^2$/NDF:2893257.1/24

Right Out: 700.177+/-0.152 $\chi^2$/NDF: 2248352.4/25

Left In: 256.842+/-0.044 $\chi^2$/NDF:2639196.2/22

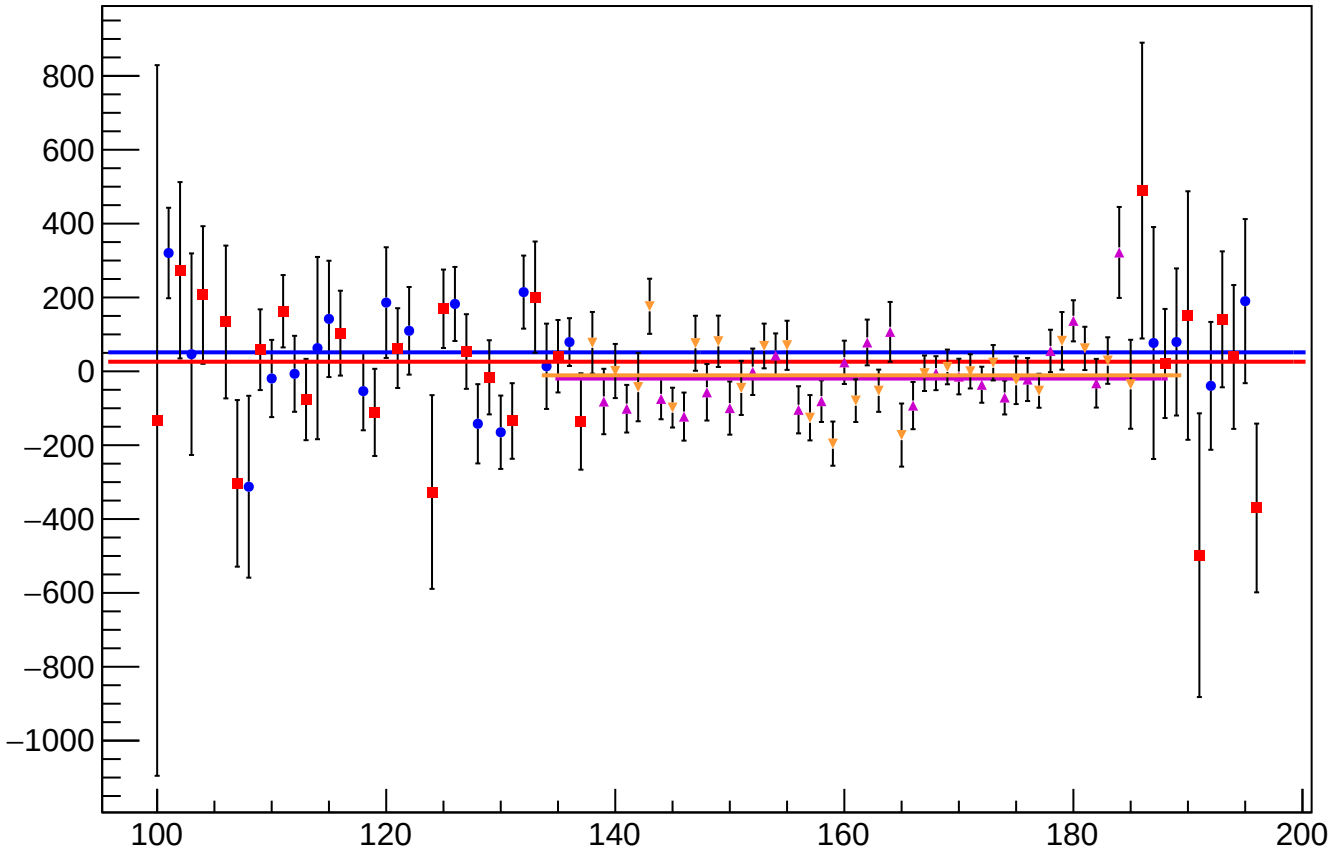
Left: 259.776+/-0.031 $\chi^2$/NDF: 5541171.4/47

Right: 685.822+/-0.110 $\chi^2$/NDF: 3730638.2/45

In: 286.697+/-0.043 $\chi^2$/NDF:10385417.6/42

Out: 296.718+/-0.042 $\chi^2$/NDF:12804153.4/50

All: 291.749+/-0.030 $\chi^2$/NDF: 23217355.2/93




Right In: 51.437+/-27.357 $\chi^2$/NDF: 23.6/19

Left Out: -10.823+/-12.306 $\chi^2$/NDF:40.4/24

Right Out: 26.005+/-27.326 $\chi^2$/NDF: 25.3/25

Left In: -19.597+/-12.546 $\chi^2$/NDF:36.8/22

Left: -15.126+/-8.785 $\chi^2$/NDF: 77.4/47

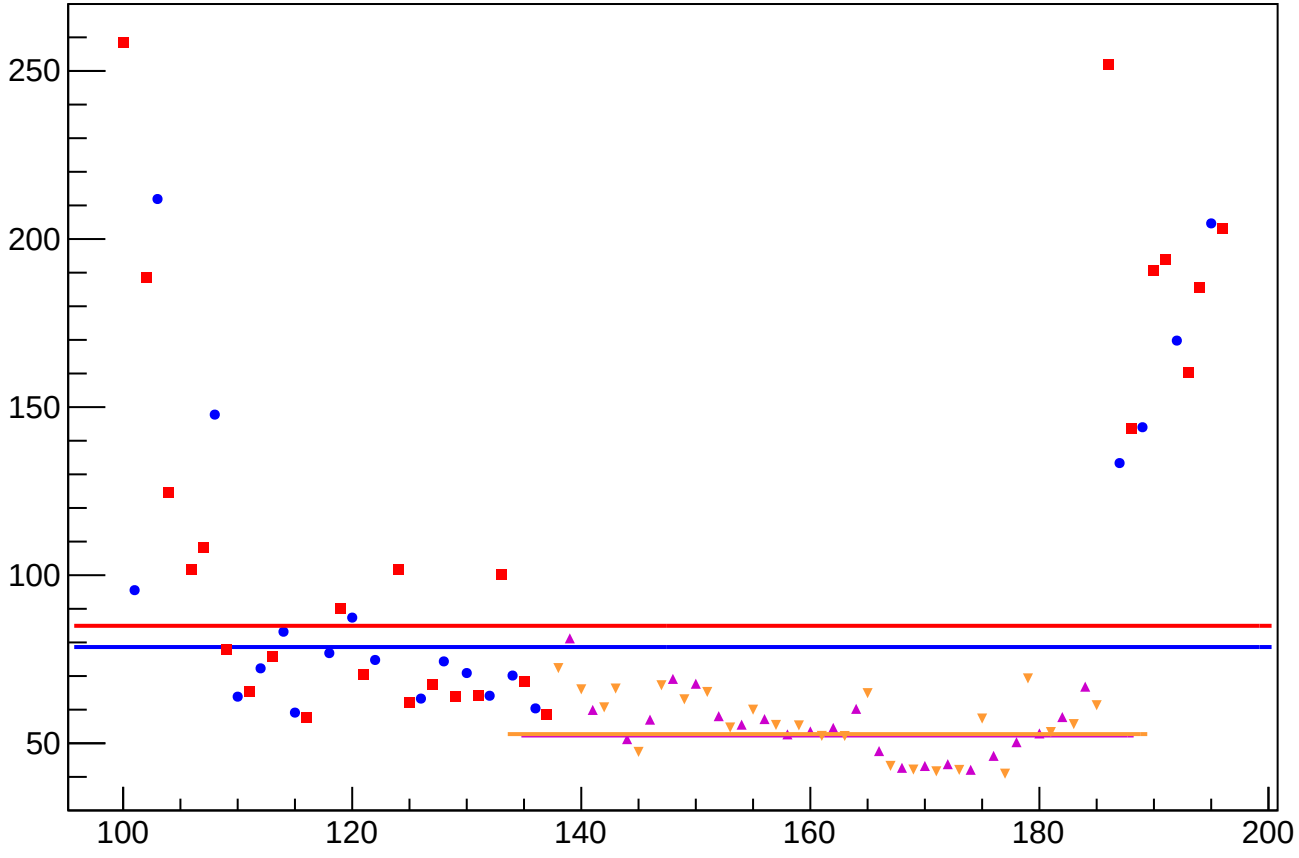
Right: 38.706+/-19.333 $\chi^2$/NDF: 49.2/45

In: -7.254+/-11.404 $\chi^2$/NDF:65.9/42

Out: -4.613+/-11.221 $\chi^2$/NDF:67.2/50

All: -5.913+/-7.998 $\chi^2$/NDF: 133.1/93

# dit_asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 78.630+/-0.019 $\chi^2$/NDF: 2509869.4/19

Left Out: 52.731+/-0.009 $\chi^2$/NDF:1167195.4/24

Right Out: 84.944+/-0.019 $\chi^2$/NDF: 3740514.4/25

Left In: 52.314+/-0.009 $\chi^2$/NDF:891847.5/22

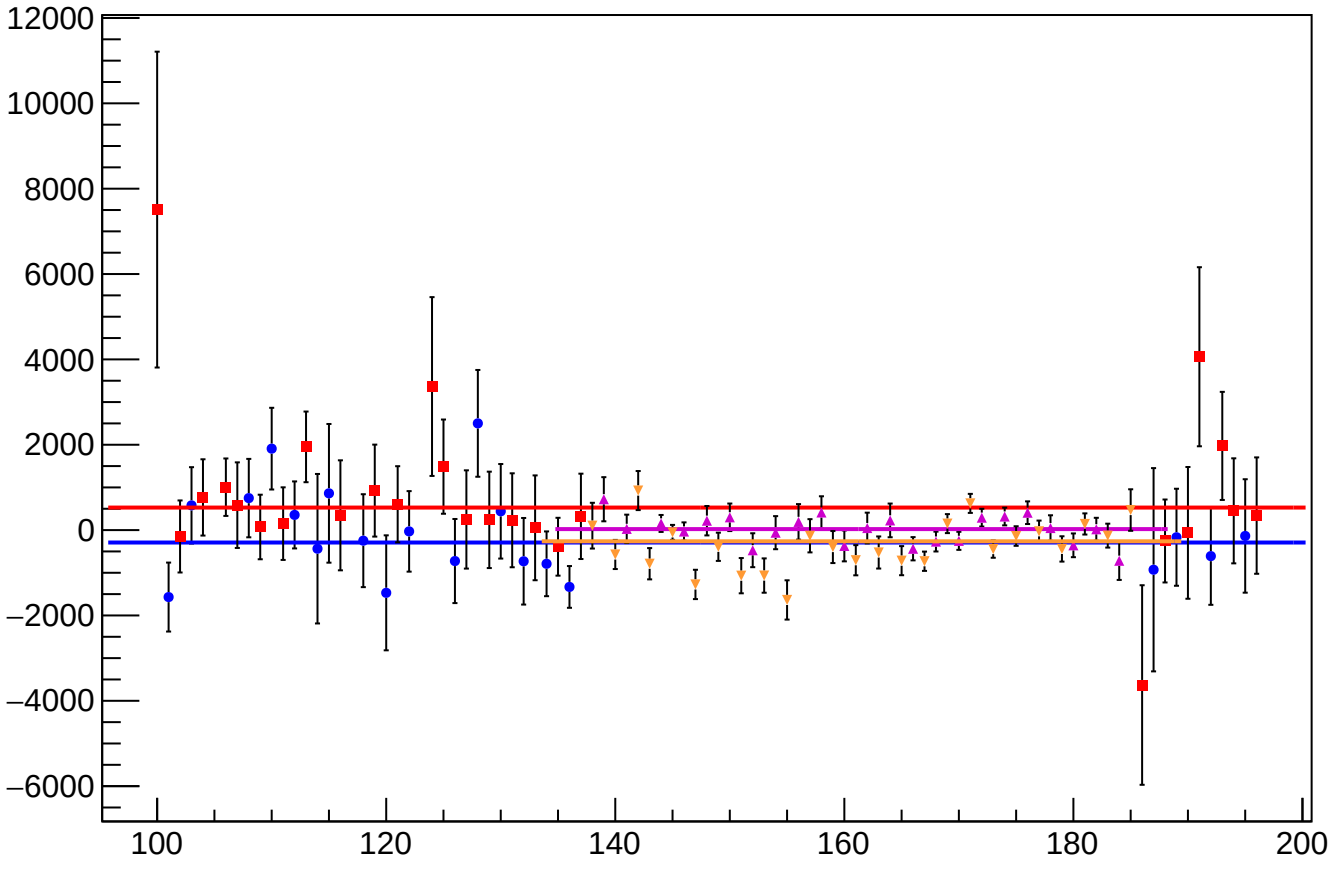
Left: 52.526+/-0.006 $\chi^2$/NDF: 2060169.7/47

Right: 81.791+/-0.014 $\chi^2$/NDF: 6303718.9/45

In: 56.886+/-0.008 $\chi^2$/NDF:4930798.2/42

Out: 58.162+/-0.008 $\chi^2$/NDF:7218447.9/50

All: 57.535+/-0.006 $\chi^2$/NDF: 12161968.1/93




Right In: -291.059+/-215.387 $\chi^2$/NDF: 23.0/19

Left Out: -262.582+/-58.501 $\chi^2$/NDF:72.2/24

Right Out: 528.031+/-203.268 $\chi^2$/NDF: 21.4/25

Left In: 23.469+/-59.397 $\chi^2$/NDF:24.2/22

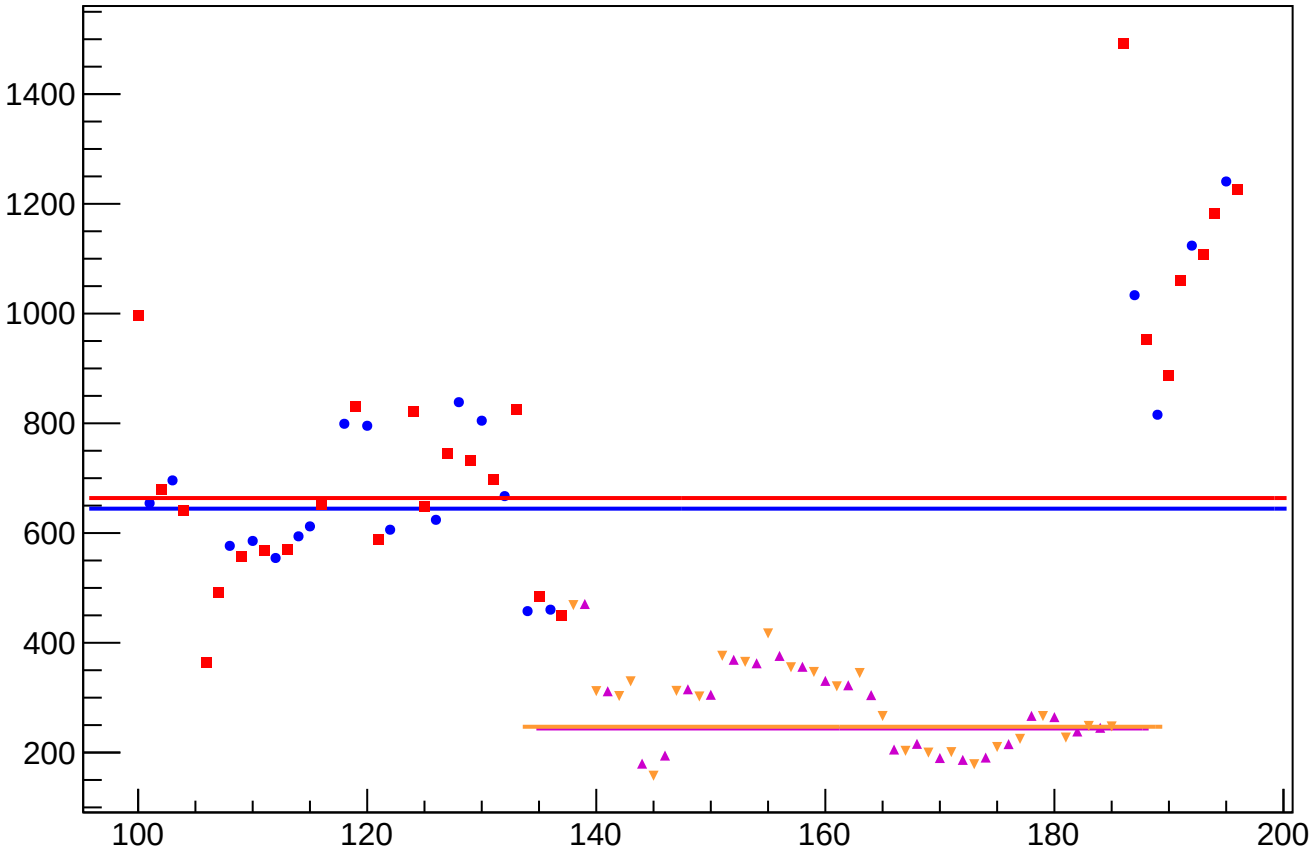
Left: -121.730+/-41.679 $\chi^2$/NDF: 108.2/47

Right: 142.178+/-147.831 $\chi^2$/NDF: 52.0/45

In: 1.241+/-57.259 $\chi^2$/NDF:49.1/42

Out: -202.104+/-56.219 $\chi^2$/NDF:107.6/50

All: -102.296+/-40.116 $\chi^2$/NDF: 163.1/93




Right In: 644.464+/-0.152 $\chi^2$/NDF: 1472830.4/19

Left Out: 246.995+/-0.041 $\chi^2$/NDF:2925691.6/24

Right Out: 663.796+/-0.144 $\chi^2$/NDF: 2408621.1/25

Left In: 243.825+/-0.042 $\chi^2$/NDF:2490545.8/22

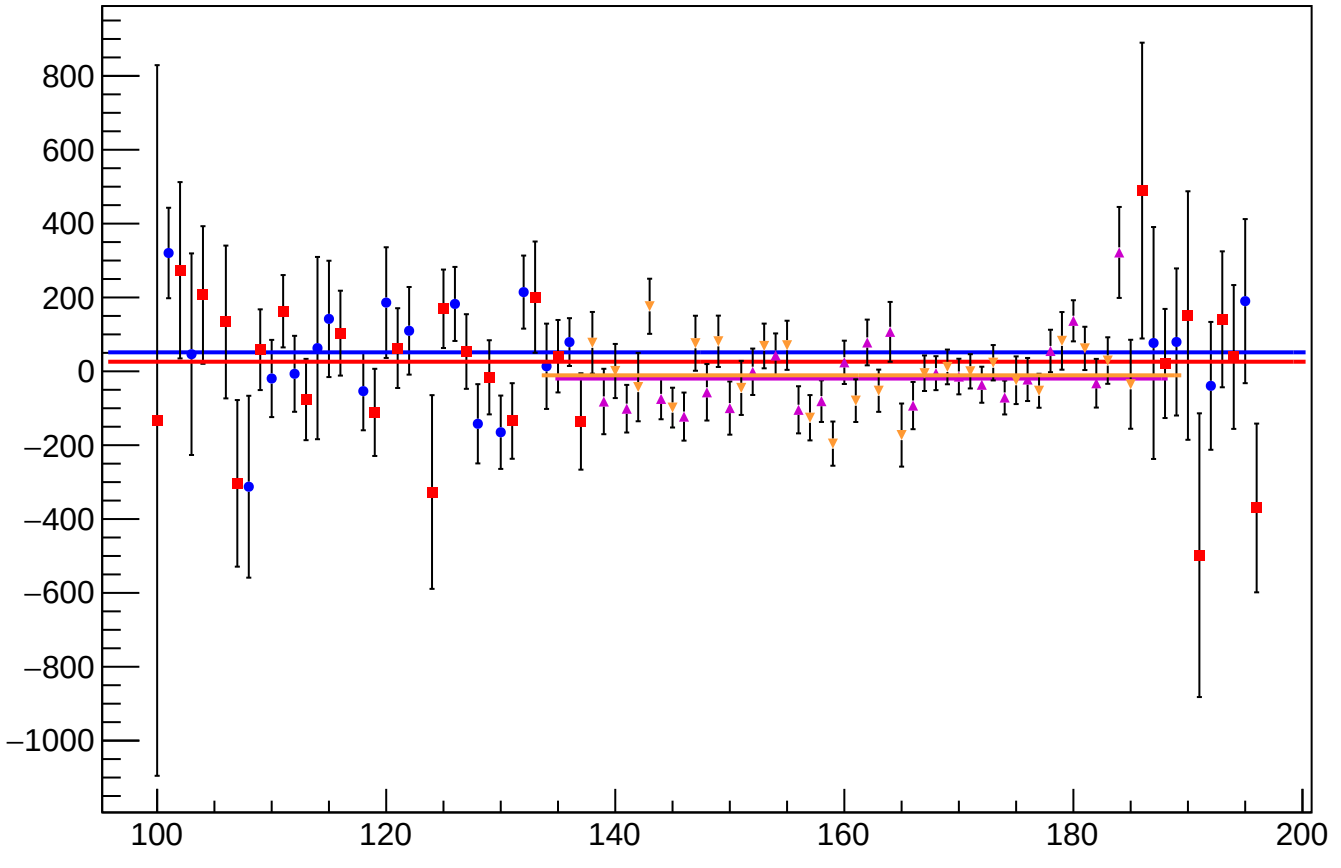
Left: 245.434+/-0.029 $\chi^2$/NDF: 5419129.9/47

Right: 654.689+/-0.105 $\chi^2$/NDF: 3889972.9/45

In: 272.139+/-0.040 $\chi^2$/NDF:10394188.0/42

Out: 278.878+/-0.040 $\chi^2$/NDF:13100172.2/50

All: 275.571+/-0.028 $\chi^2$/NDF: 23508465.0/93




Right In: 51.436+/-27.357 $\chi^2$/NDF: 23.6/19

Left Out: -10.822+/-12.306 $\chi^2$/NDF:40.4/24

Right Out: 26.004+/-27.326 $\chi^2$/NDF: 25.3/25

Left In: -19.598+/-12.546 $\chi^2$/NDF:36.8/22

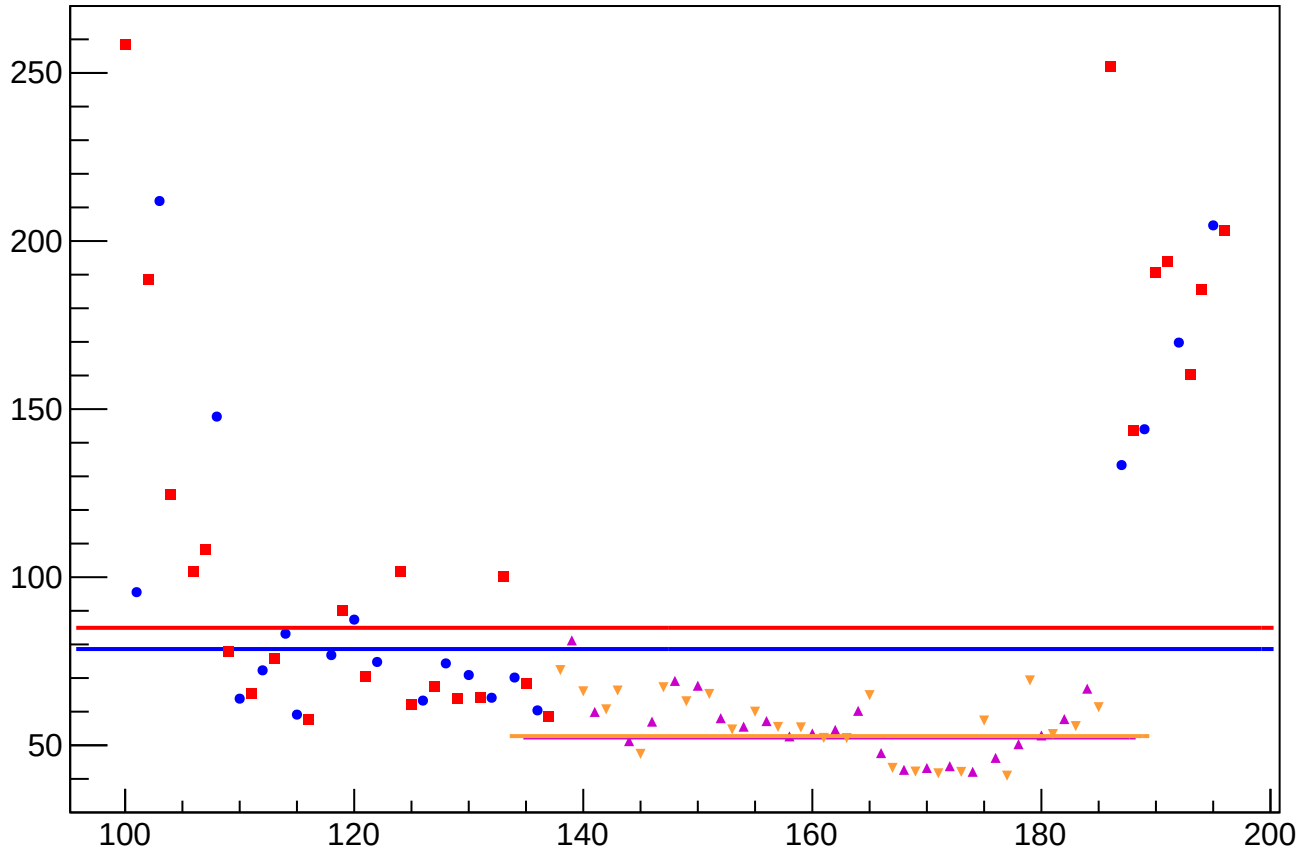
Left: -15.125+/-8.785 $\chi^2$/NDF: 77.4/47

Right: 38.705+/-19.333 $\chi^2$/NDF: 49.2/45

In: -7.255+/-11.404 $\chi^2$/NDF:65.9/42

Out: -4.613+/-11.221 $\chi^2$/NDF:67.2/50

All: -5.912+/-7.998 $\chi^2$/NDF: 133.1/93




Right In: 78.630+/-0.019 $\chi^2$/NDF: 2509887.8/19

Left Out: 52.731+/-0.009 $\chi^2$/NDF:1167223.2/24

Right Out: 84.944+/-0.019 $\chi^2$/NDF: 3740513.1/25

Left In: 52.314+/-0.009 $\chi^2$/NDF:891856.0/22

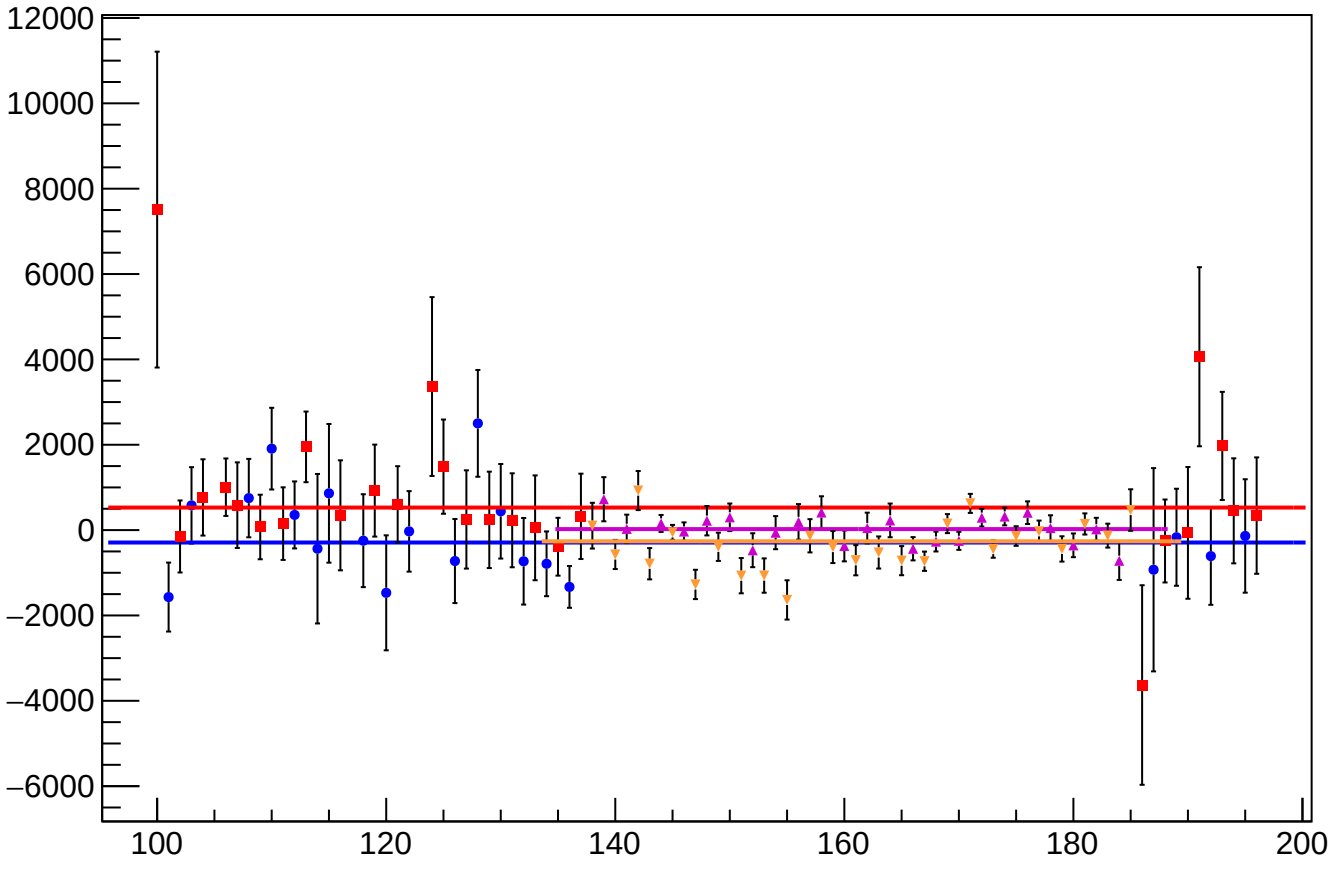
Left: 52.526+/-0.006 $\chi^2$/NDF: 2060206.1/47

Right: 81.791+/-0.014 $\chi^2$/NDF: 6303737.5/45

In: 56.887+/-0.008 $\chi^2$/NDF:4930803.0/42

Out: 58.163+/-0.008 $\chi^2$/NDF:7218455.0/50

All: 57.535+/-0.006 $\chi^2$/NDF: 12161980.4/93




Right In: -291.059+/-215.387 $\chi^2$/NDF: 23.0/19

Left Out: -262.582+/-58.501 $\chi^2$/NDF:72.2/24

Right Out: 528.030+/-203.267 $\chi^2$/NDF: 21.4/25

Left In: 23.469+/-59.397 $\chi^2$/NDF:24.2/22

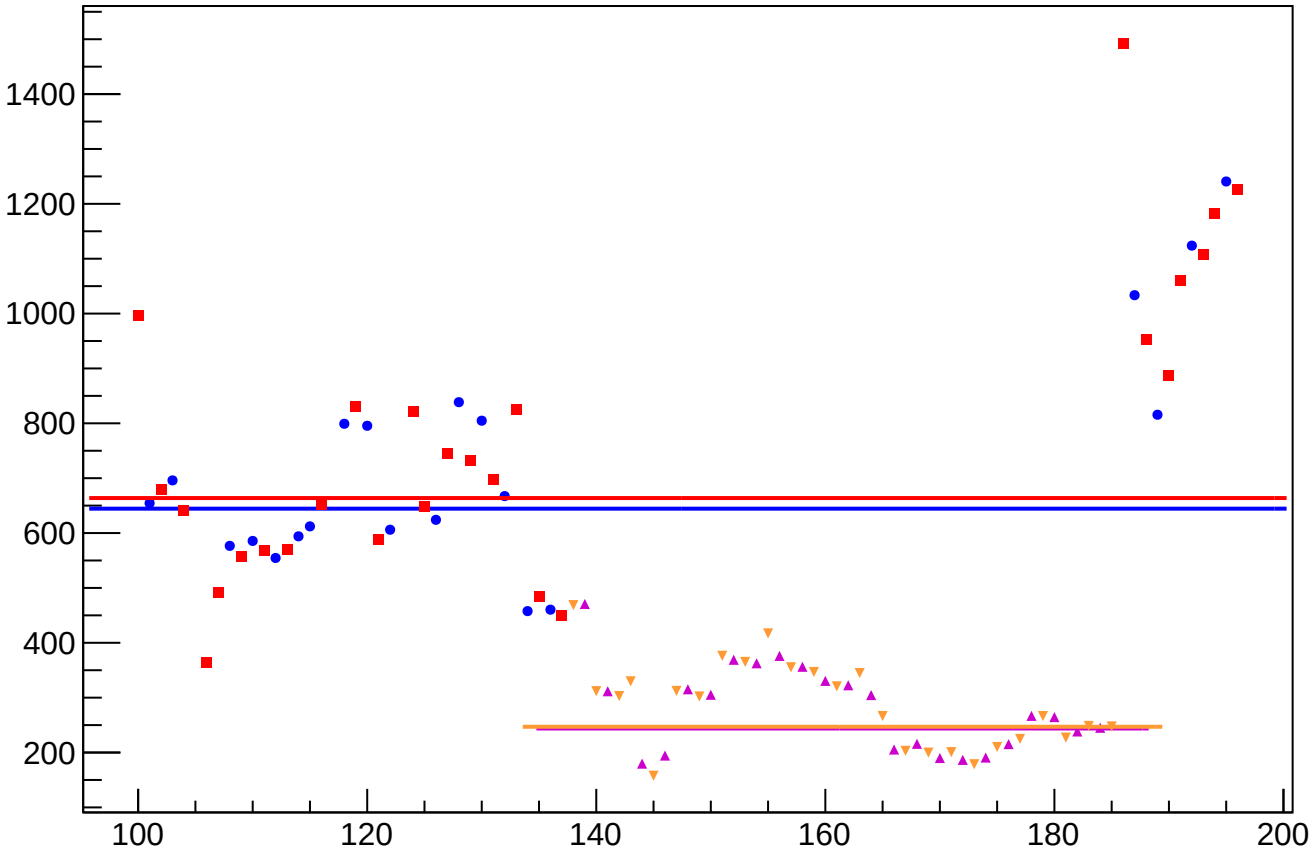
Left: -121.730+/-41.679 $\chi^2$/NDF: 108.2/47

Right: 142.178+/-147.831 $\chi^2$/NDF: 52.0/45

In: 1.240+/-57.259 $\chi^2$/NDF:49.1/42

Out: -202.105+/-56.219 $\chi^2$/NDF:107.6/50

All: -102.297+/-40.116 $\chi^2$/NDF: 163.1/93




Right In: 644.465+/-0.152 $\chi^2$/NDF: 1472820.6/19

Left Out: 246.995+/-0.041 $\chi^2$/NDF:2925680.1/24

Right Out: 663.795+/-0.144 $\chi^2$/NDF: 2408614.7/25

Left In: 243.825+/-0.042 $\chi^2$/NDF:2490539.0/22

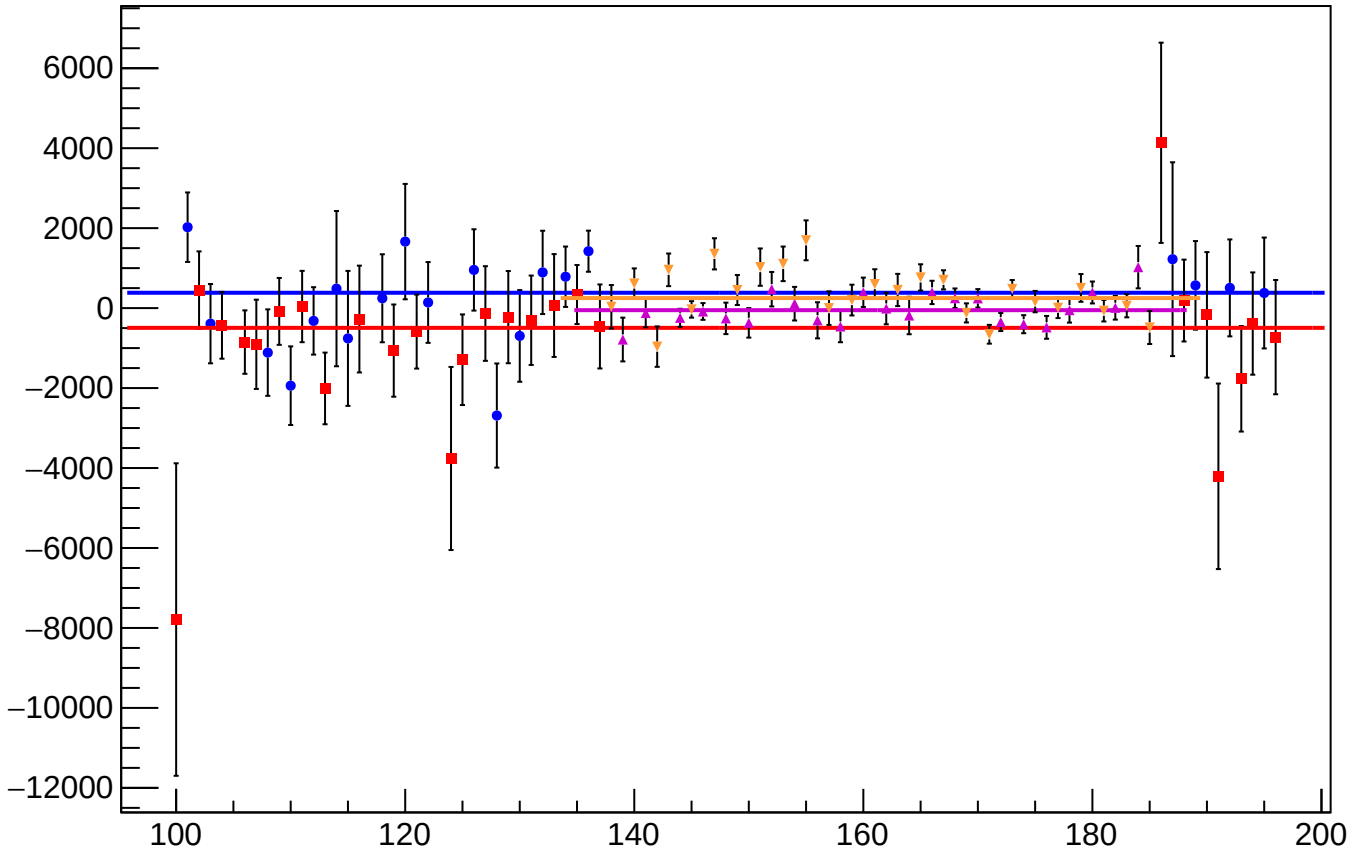
Left: 245.434+/-0.029 $\chi^2$/NDF: 5419111.8/47

Right: 654.689+/-0.105 $\chi^2$/NDF: 3889956.2/45

In: 272.139+/-0.040 $\chi^2$/NDF:10394185.6/42

Out: 278.878+/-0.040 $\chi^2$/NDF:13100154.0/50

All: 275.570+/-0.028 $\chi^2$/NDF: 23508445.1/93




Right In: 383.942+/-226.436 $\chi^2$/NDF: 25.2/19

Left Out: 251.109+/-63.424 $\chi^2$/NDF:67.5/24

Right Out: -493.763+/-216.522 $\chi^2$/NDF: 20.1/25

Left In: -51.707+/-63.843 $\chi^2$/NDF:26.8/22

Left: 100.699+/-44.995 $\chi^2$/NDF: 105.7/47

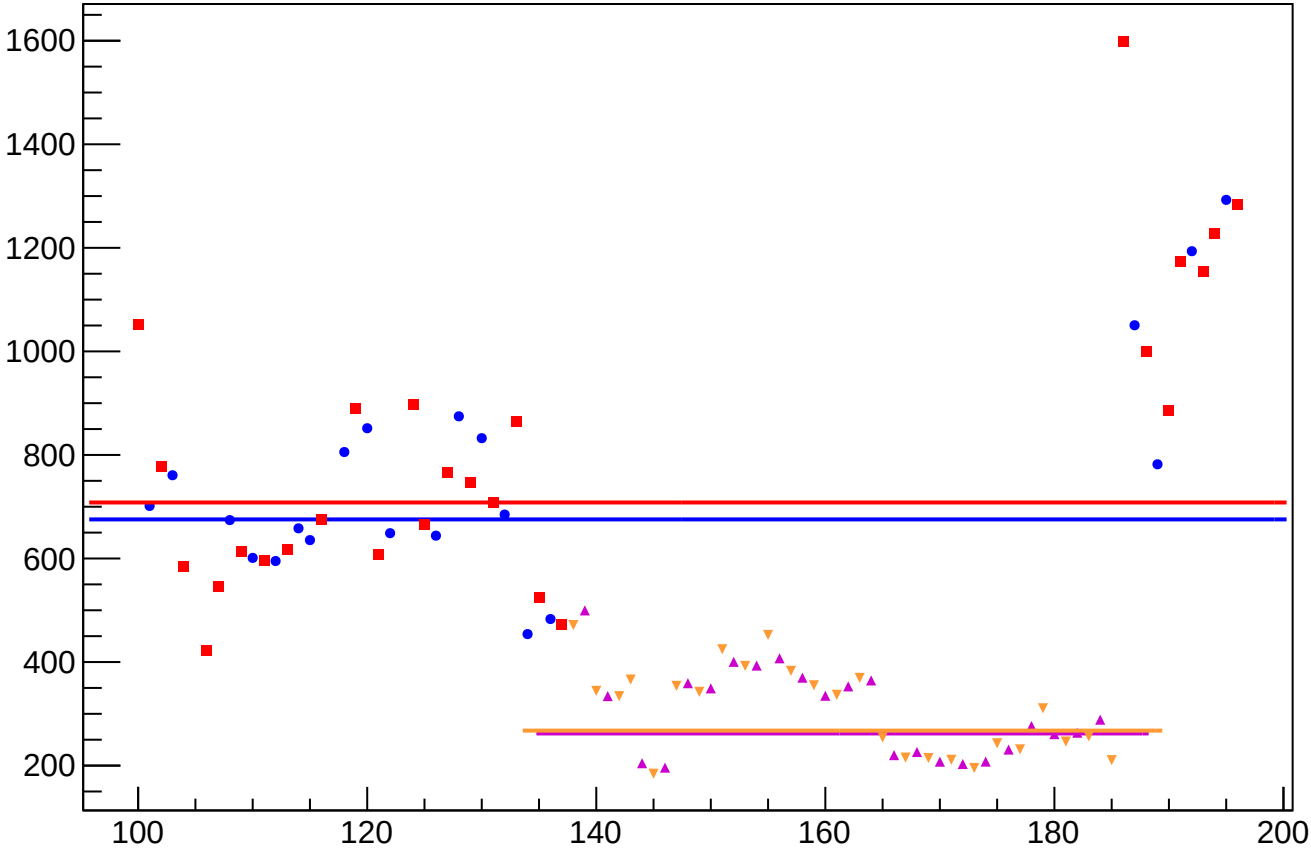
Right: -74.545+/-156.492 $\chi^2$/NDF: 53.2/45

In: -19.626+/-61.447 $\chi^2$/NDF:55.5/42

Out: 192.248+/-60.866 $\chi^2$/NDF:98.6/50

All: 87.318+/-43.243 $\chi^2$/NDF: 160.0/93

# asym_sam_37_dd_rms vs Slug, Sign Corrected




Right In: 675.491+/-0.160 $\chi^2$/NDF: 1473178.7/19

Left Out: 267.589+/-0.045 $\chi^2$/NDF:2801460.2/24

Right Out: 708.171+/-0.153 $\chi^2$/NDF: 2205235.2/25

Left In: 262.092+/-0.045 $\chi^2$/NDF:2537465.8/22

Left: 264.859+/-0.032 $\chi^2$/NDF: 5346387.6/47

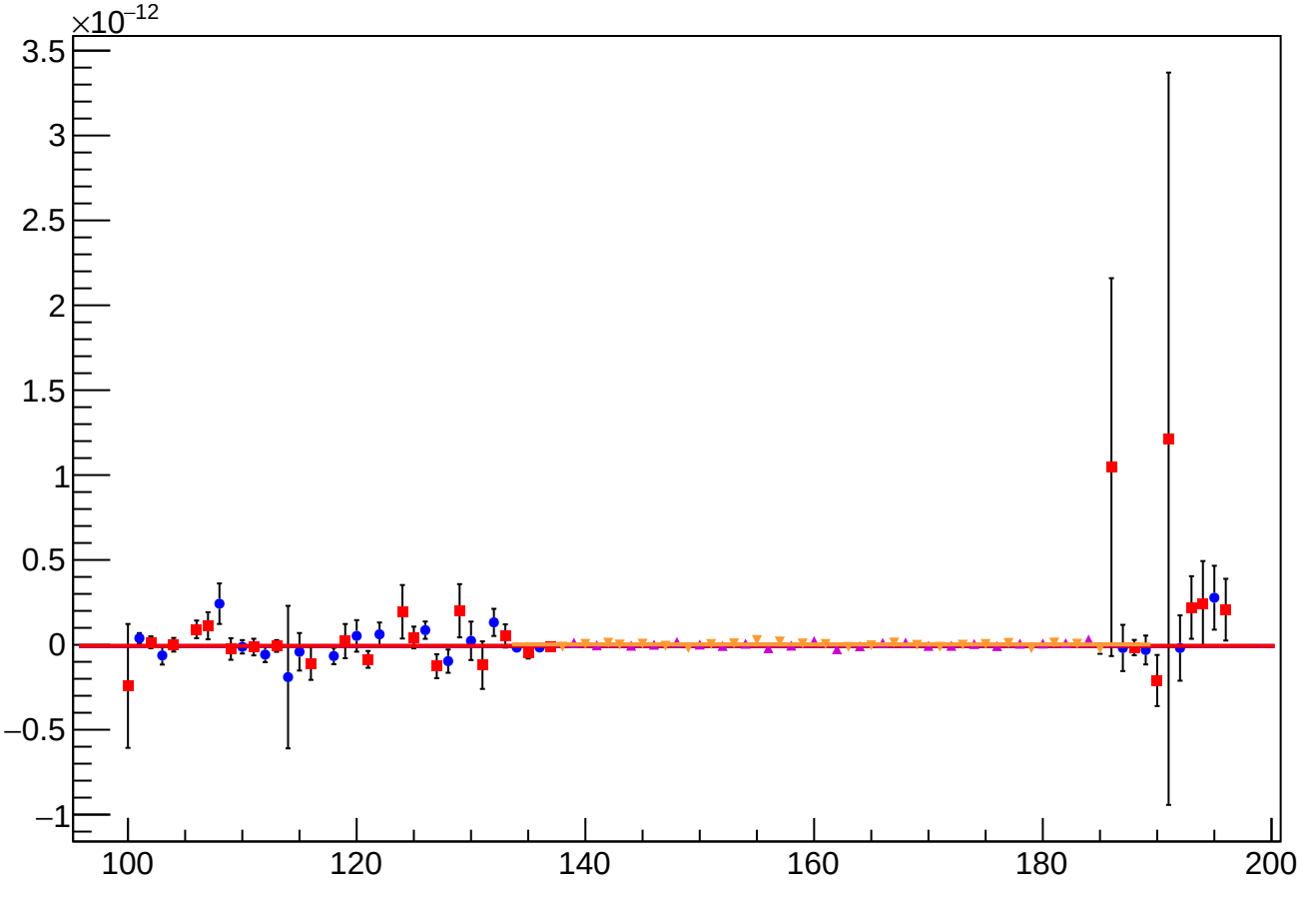
Right: 692.562+/-0.111 $\chi^2$/NDF: 3700175.9/45

In: 292.535+/-0.043 $\chi^2$/NDF:10185894.7/42

Out: 302.405+/-0.043 $\chi^2$/NDF:12633257.4/50

All: 297.517+/-0.031 $\chi^2$/NDF: 22845195.1/93

asym_sam_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:15.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:12.3/22

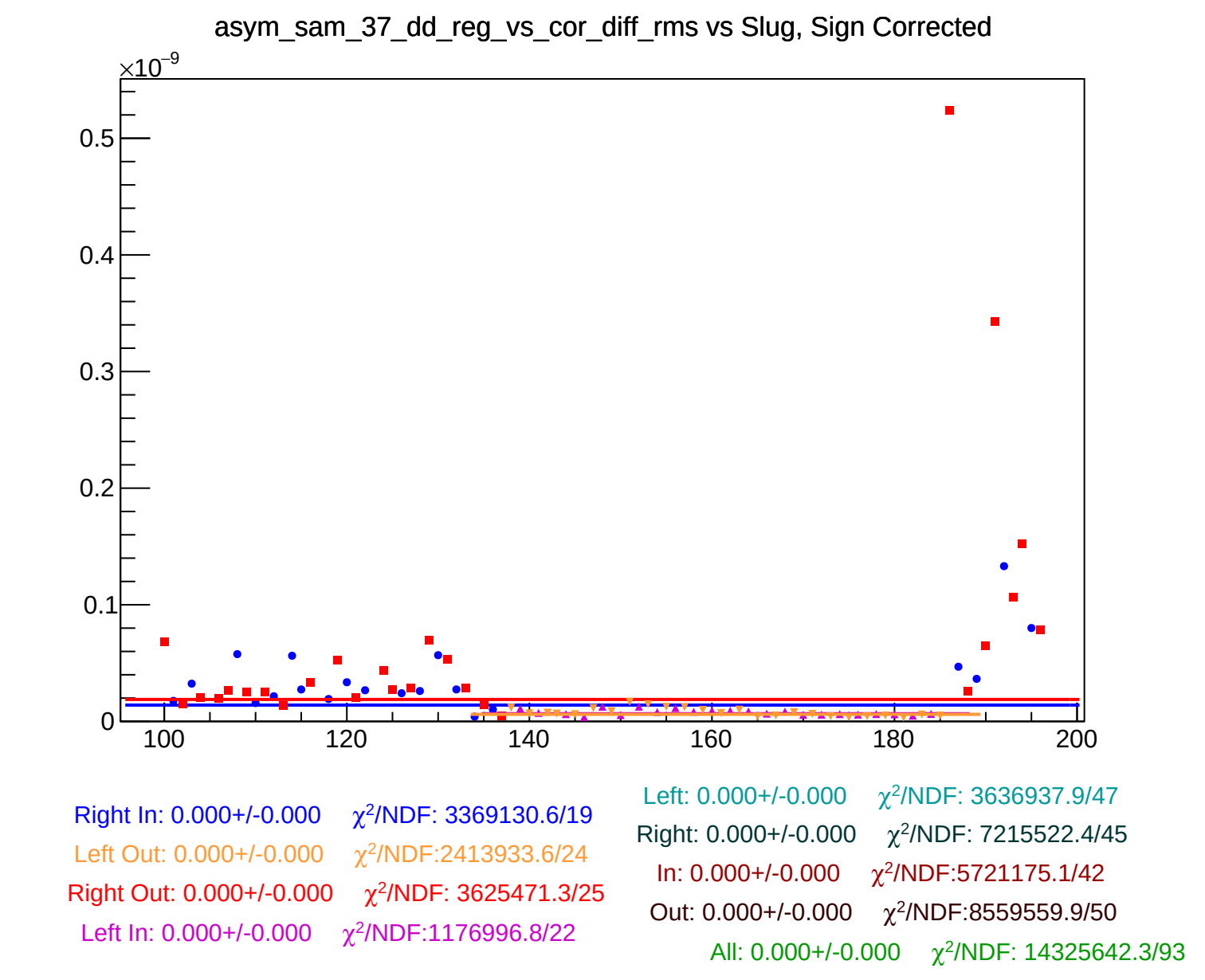
Left: 0.000+/-0.000 $\chi^2$/NDF: 27.6/47

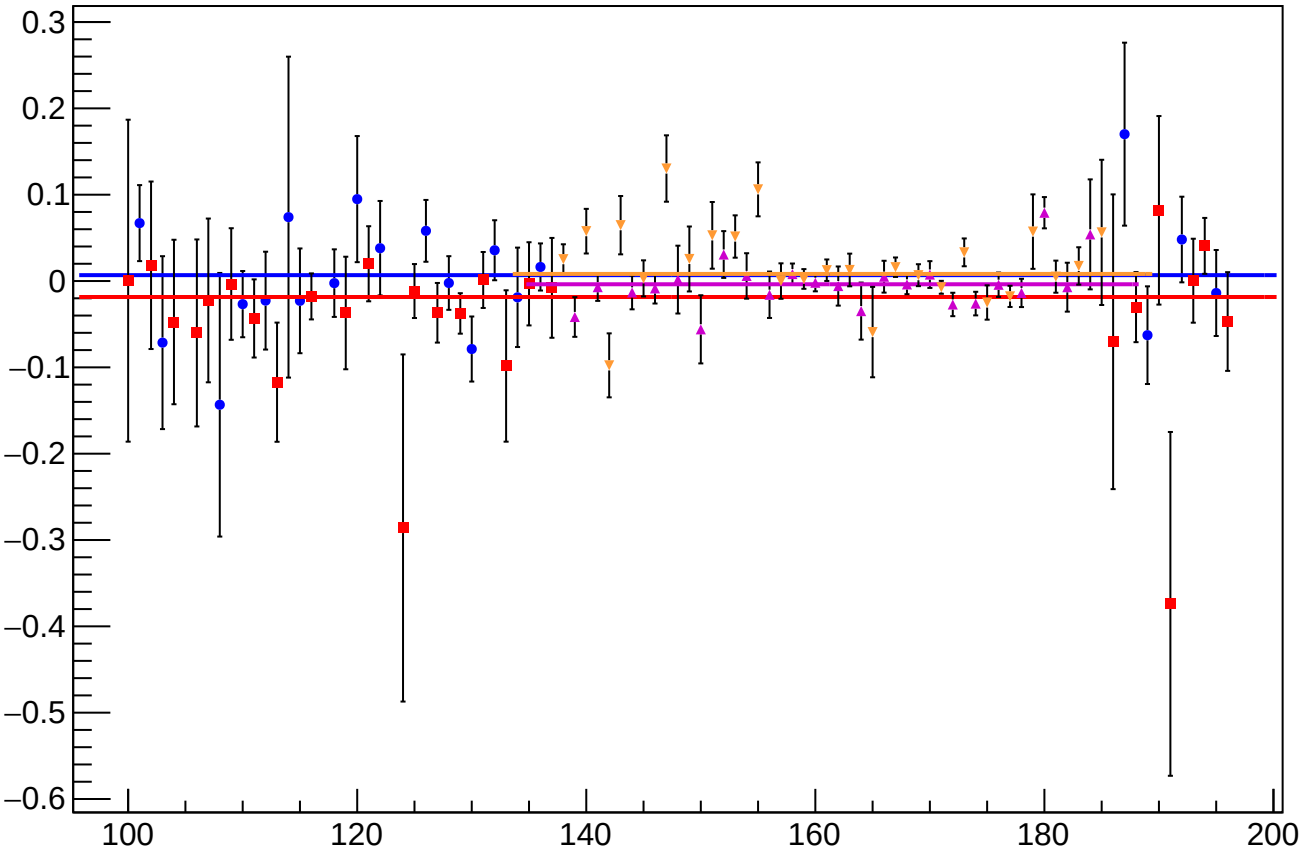
Right: -0.000+/-0.000 $\chi^2$/NDF: 50.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:36.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:42.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 79.4/93


asym_sam_37_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3369130.6/19
Left Out: 0.000+/-0.000 χ²/NDF:2413933.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 3625471.3/25
Left In: 0.000+/-0.000 χ²/NDF:1176996.8/22
Left: 0.000+/-0.000 χ²/NDF: 3636937.9/47
Right: 0.000+/-0.000 χ²/NDF: 7215522.4/45
In: 0.000+/-0.000 χ²/NDF:5721175.1/42
Out: 0.000+/-0.000 χ²/NDF:8559559.9/50
All: 0.000+/-0.000 χ²/NDF: 14325642.3/93




Right In: 0.007+/-0.010 $\chi^2$/NDF: 19.8/19

Left Out: 0.008+/-0.003 $\chi^2$/NDF:58.8/24

Right Out: -0.019+/-0.009 $\chi^2$/NDF: 15.7/25

Left In: -0.004+/-0.004 $\chi^2$/NDF:37.2/22

Left: 0.003+/-0.003 $\chi^2$/NDF: 101.7/47

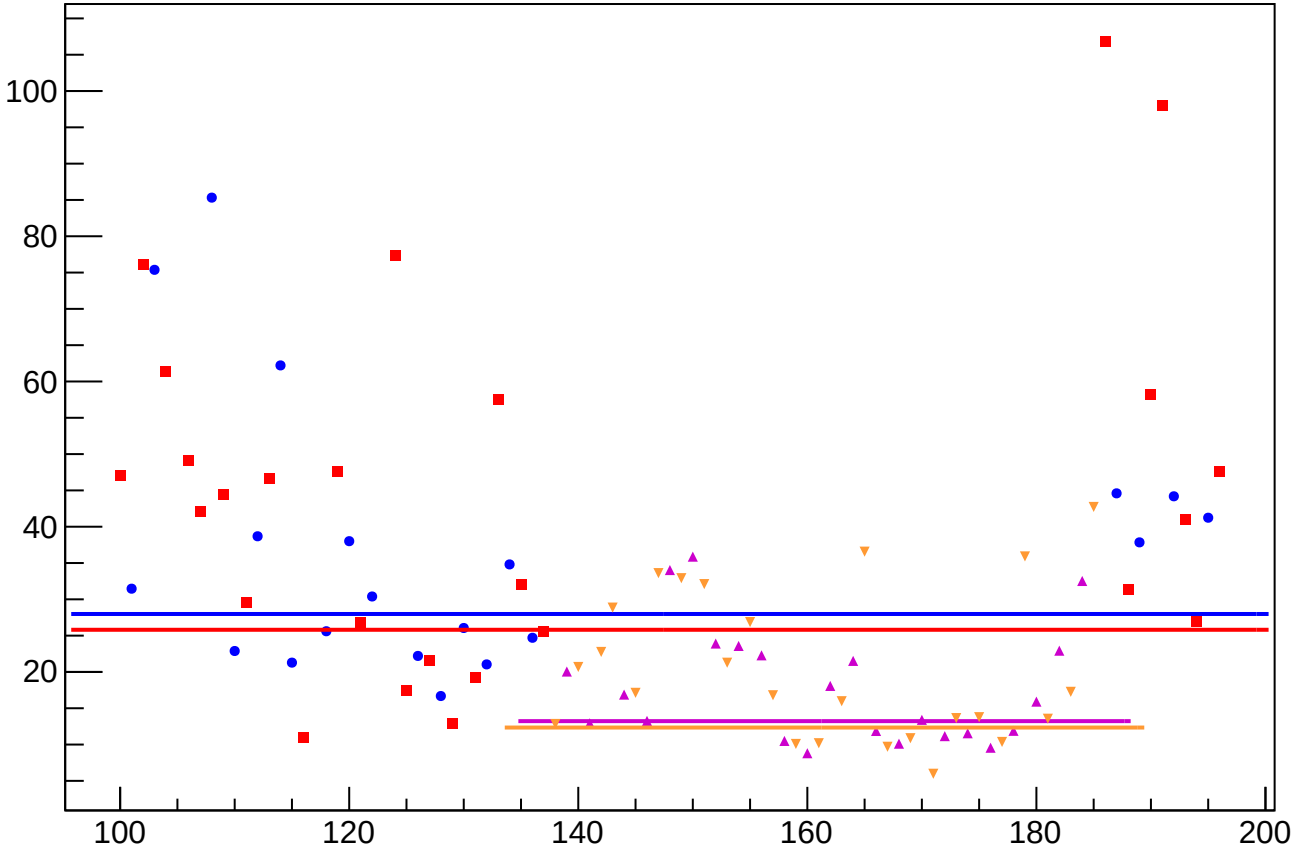
Right: -0.007+/-0.007 $\chi^2$/NDF: 38.8/45

In: -0.003+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.005+/-0.003 $\chi^2$/NDF:81.7/50

All: 0.001+/-0.002 $\chi^2$/NDF: 142.2/93

asym_sam_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.981+/-0.007 $\chi^2$/NDF: 1913847.3/19

Left Out: 12.343+/-0.002 $\chi^2$/NDF:6743594.0/24

Right Out: 25.806+/-0.007 $\chi^2$/NDF: 4909778.9/25

Left In: 13.225+/-0.003 $\chi^2$/NDF:3870352.4/22

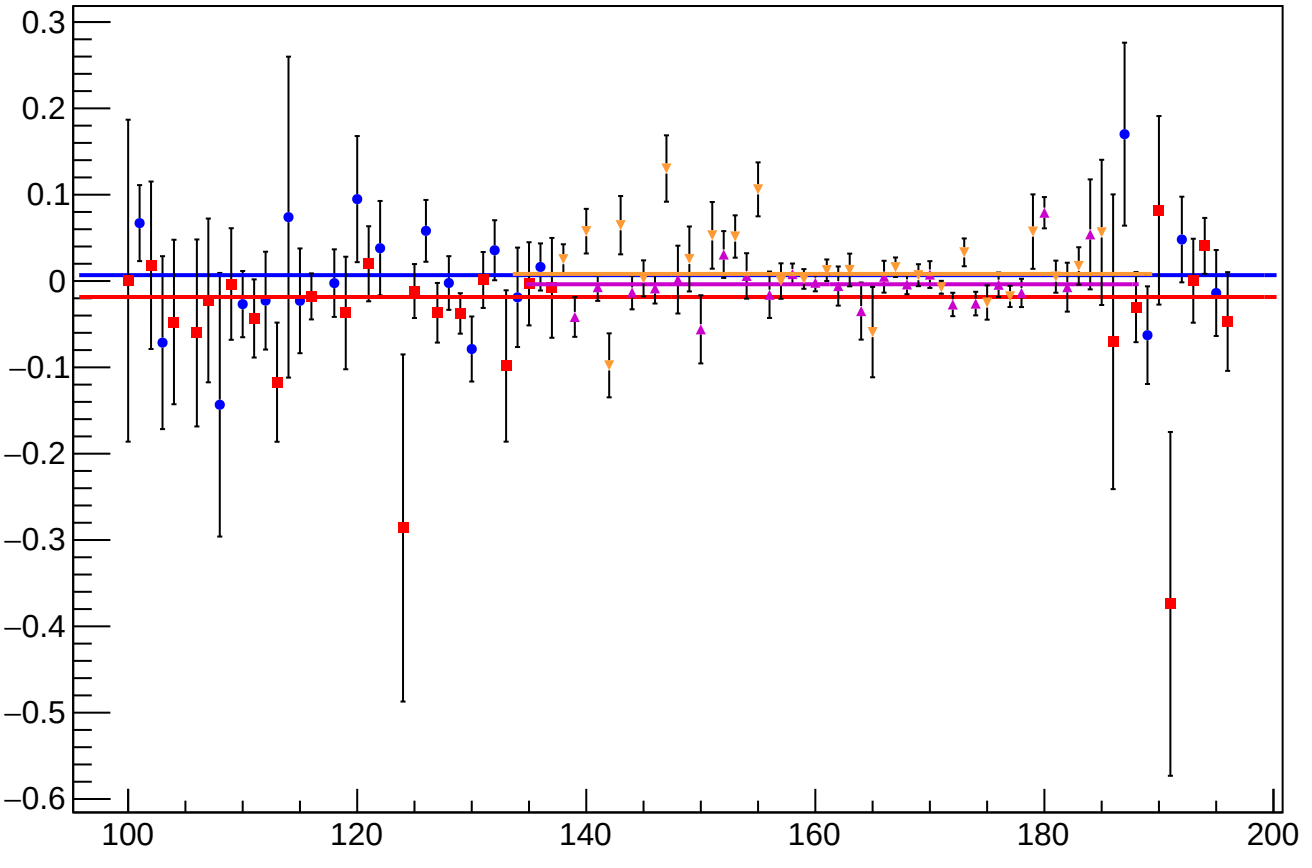
Left: 12.762+/-0.002 $\chi^2$/NDF: 10675886.6/47

Right: 26.780+/-0.005 $\chi^2$/NDF: 6872338.7/45

In: 14.843+/-0.002 $\chi^2$/NDF:9400850.2/42

Out: 13.967+/-0.002 $\chi^2$/NDF:15319525.9/50

All: 14.380+/-0.002 $\chi^2$/NDF: 24789339.6/93




Right In: 0.007+/-0.010 $\chi^2$/NDF: 19.8/19

Left Out: 0.008+/-0.003 $\chi^2$/NDF:58.8/24

Right Out: -0.019+/-0.009 $\chi^2$/NDF: 15.7/25

Left In: -0.004+/-0.004 $\chi^2$/NDF:37.2/22

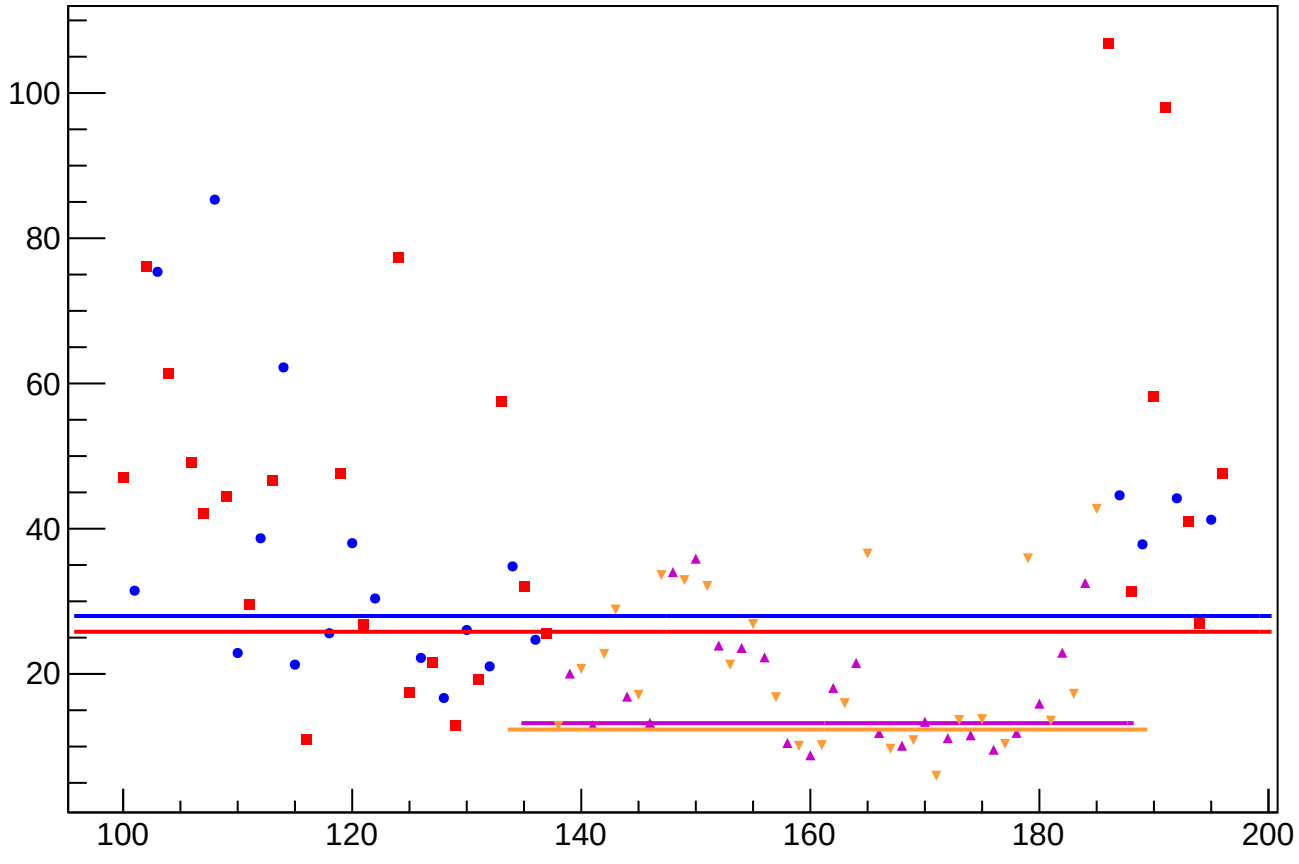
Left: 0.003+/-0.003 $\chi^2$/NDF: 101.7/47

Right: -0.007+/-0.007 $\chi^2$/NDF: 38.8/45

In: -0.003+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.005+/-0.003 $\chi^2$/NDF:81.7/50

All: 0.001+/-0.002 $\chi^2$/NDF: 142.2/93




Right In: 27.981+/-0.007 $\chi^2$/NDF: 1913847.3/19

Left Out: 12.343+/-0.002 $\chi^2$/NDF:6743594.0/24

Right Out: 25.806+/-0.007 $\chi^2$/NDF: 4909778.9/25

Left In: 13.225+/-0.003 $\chi^2$/NDF:3870352.4/22

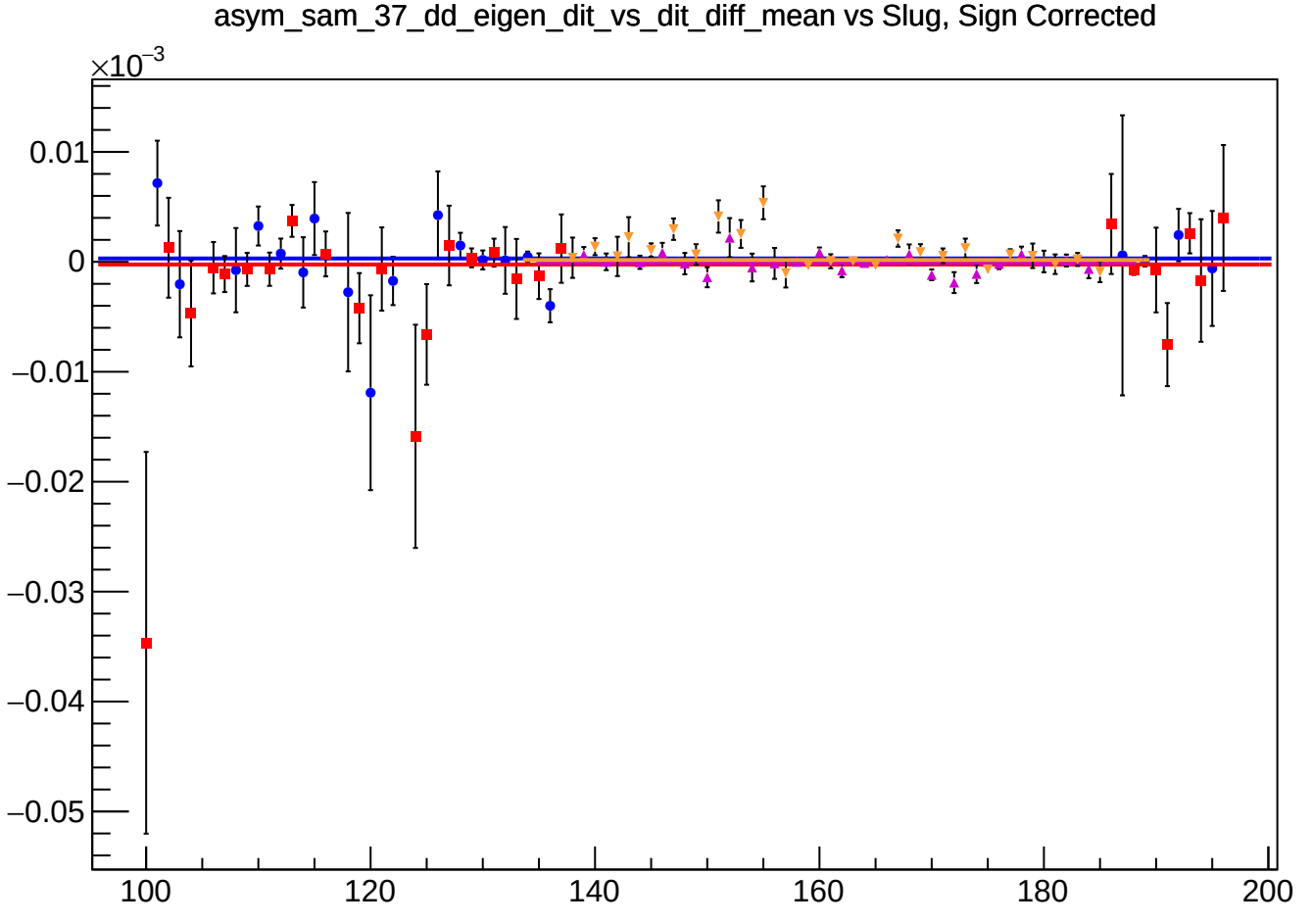
Left: 12.762+/-0.002 $\chi^2$/NDF: 10675886.6/47

Right: 26.780+/-0.005 $\chi^2$/NDF: 6872338.7/45

In: 14.843+/-0.002 $\chi^2$/NDF:9400850.2/42

Out: 13.967+/-0.002 $\chi^2$/NDF:15319525.9/50

All: 14.380+/-0.002 $\chi^2$/NDF: 24789339.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:61.5/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 29.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 88.8/47

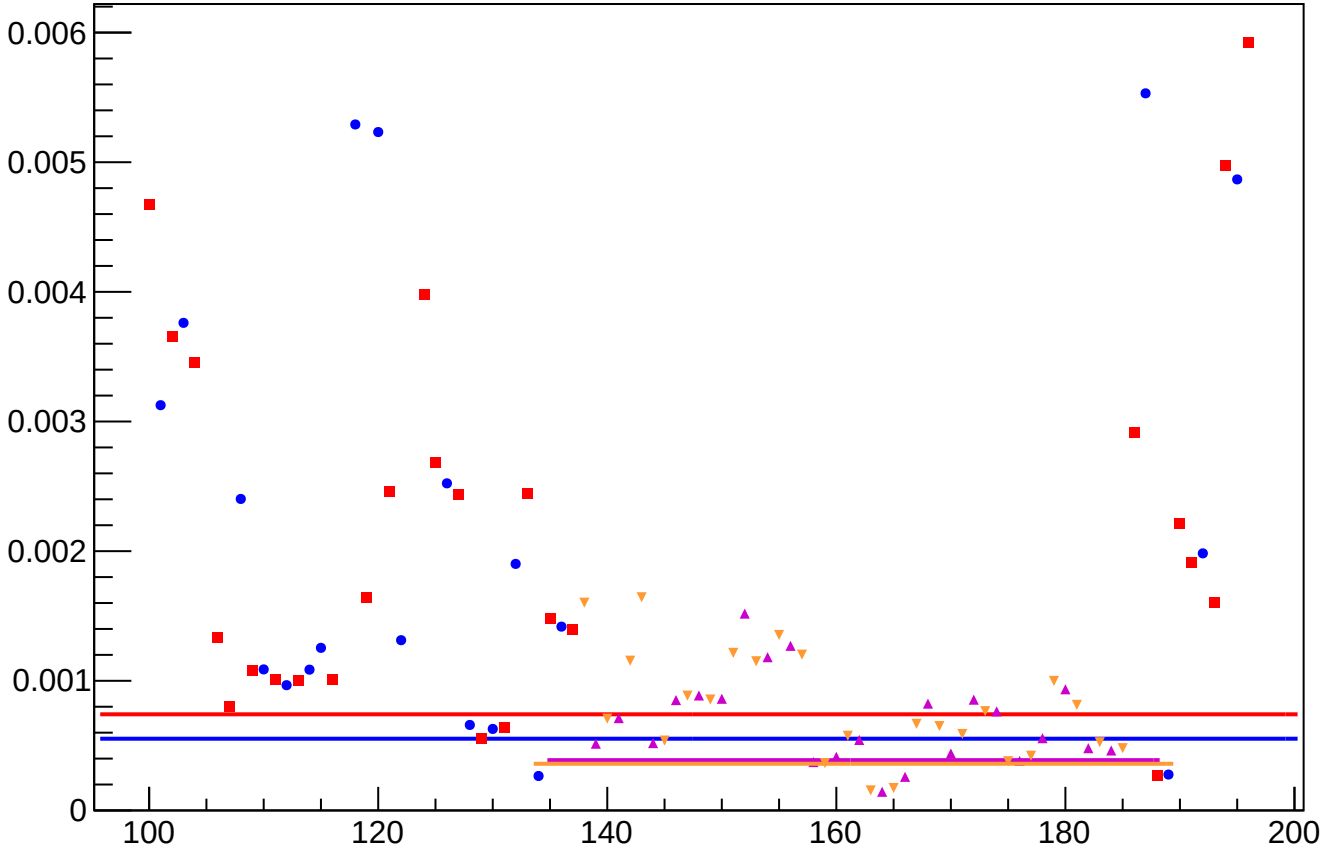
Right: 0.000+/-0.000 $\chi^2$/NDF: 53.1/45

In: -0.000+/-0.000 $\chi^2$/NDF:48.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:92.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 141.9/93

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 9785651.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:14019628.7/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 10221585.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:10459340.6/22

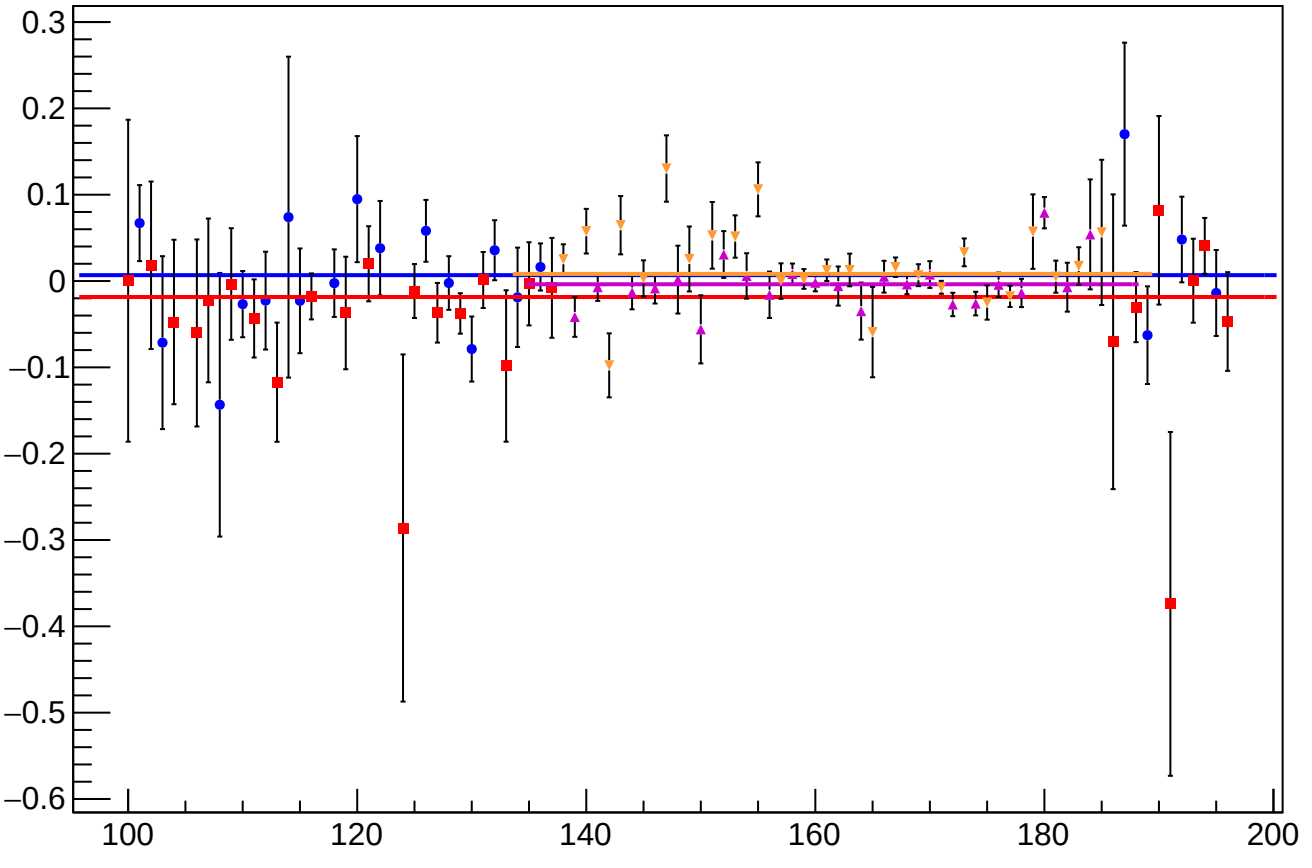
Left: 0.000+/-0.000 $\chi^2$/NDF: 24545127.9/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 20413582.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:20868046.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:26881305.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 47767371.1/93




Right In: 0.007+/-0.010 $\chi^2$/NDF: 19.8/19

Left Out: 0.008+/-0.003 $\chi^2$/NDF:58.8/24

Right Out: -0.019+/-0.009 $\chi^2$/NDF: 15.7/25

Left In: -0.004+/-0.004 $\chi^2$/NDF:37.2/22

Left: 0.003+/-0.003 $\chi^2$/NDF: 101.7/47

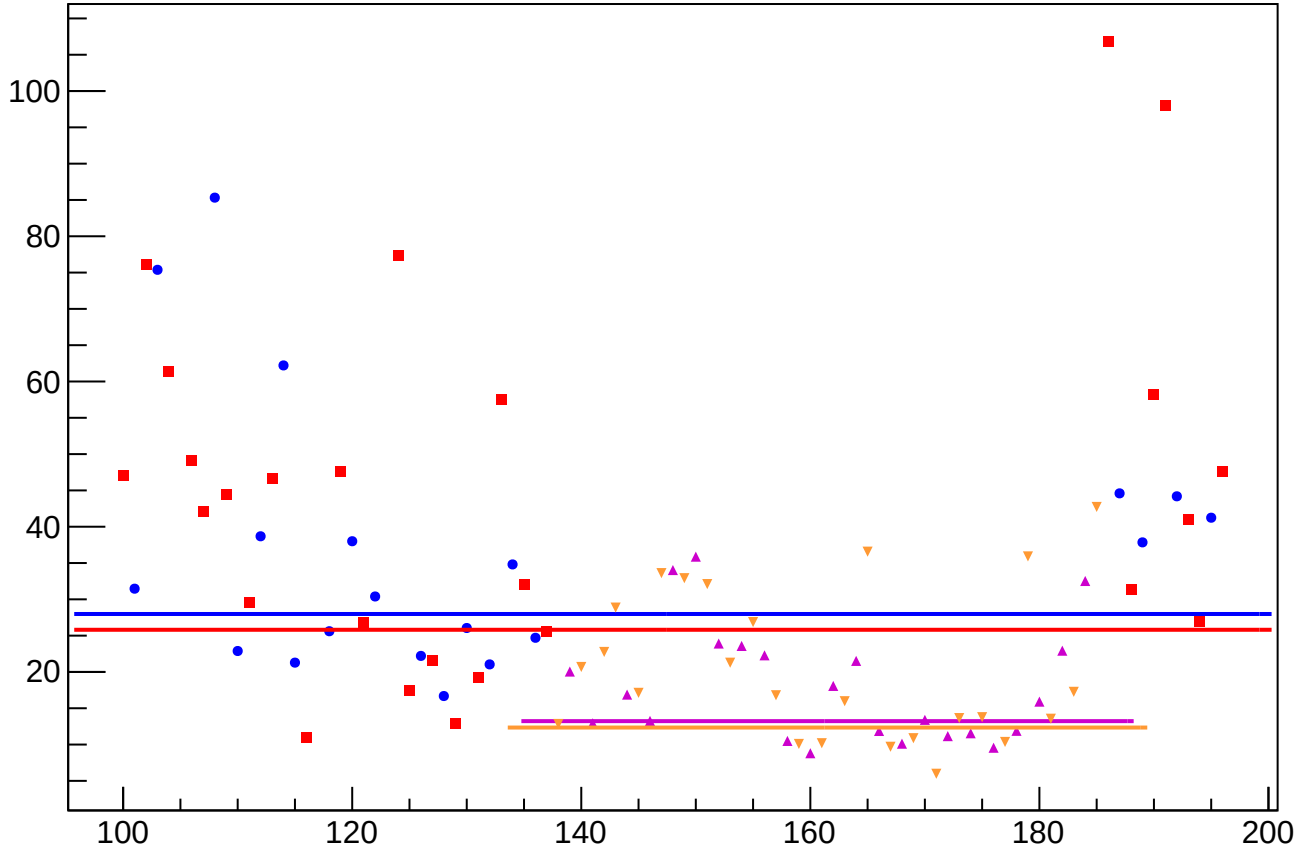
Right: -0.007+/-0.007 $\chi^2$/NDF: 38.8/45

In: -0.003+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.005+/-0.003 $\chi^2$/NDF:81.7/50

All: 0.001+/-0.002 $\chi^2$/NDF: 142.2/93

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.981+/-0.007 $\chi^2$/NDF: 1913800.1/19

Left Out: 12.343+/-0.002 $\chi^2$/NDF:6743823.4/24

Right Out: 25.807+/-0.007 $\chi^2$/NDF: 4909498.2/25

Left In: 13.225+/-0.003 $\chi^2$/NDF:3870507.9/22

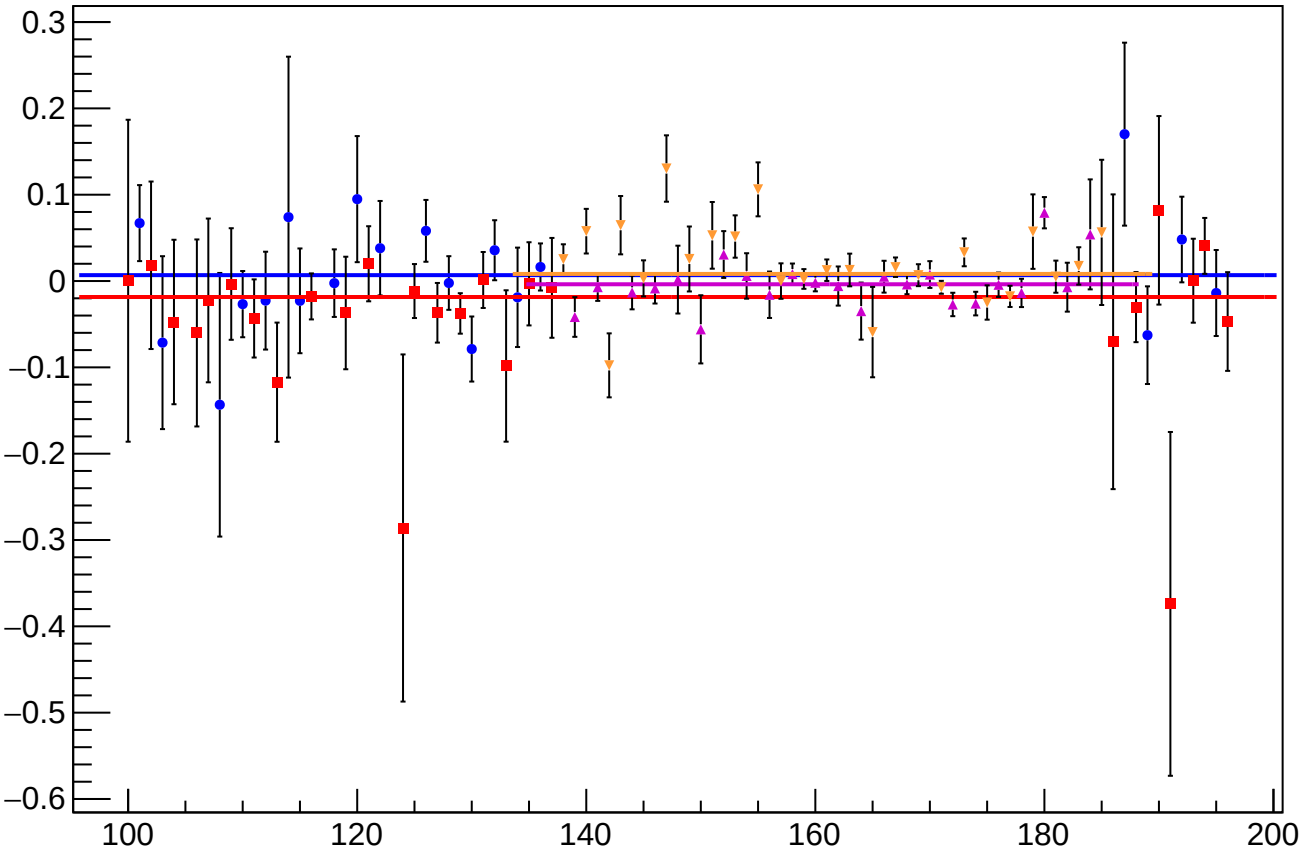
Left: 12.762+/-0.002 $\chi^2$/NDF: 10676265.0/47

Right: 26.781+/-0.005 $\chi^2$/NDF: 6872001.2/45

In: 14.843+/-0.002 $\chi^2$/NDF:9401051.2/42

Out: 13.967+/-0.002 $\chi^2$/NDF:15319641.2/50

All: 14.380+/-0.002 $\chi^2$/NDF: 24789645.6/93




Right In: 0.007+/-0.010 $\chi^2$/NDF: 19.8/19

Left Out: 0.008+/-0.003 $\chi^2$/NDF:58.8/24

Right Out: -0.019+/-0.009 $\chi^2$/NDF: 15.7/25

Left In: -0.004+/-0.004 $\chi^2$/NDF:37.2/22

Left: 0.003+/-0.003 $\chi^2$/NDF: 101.7/47

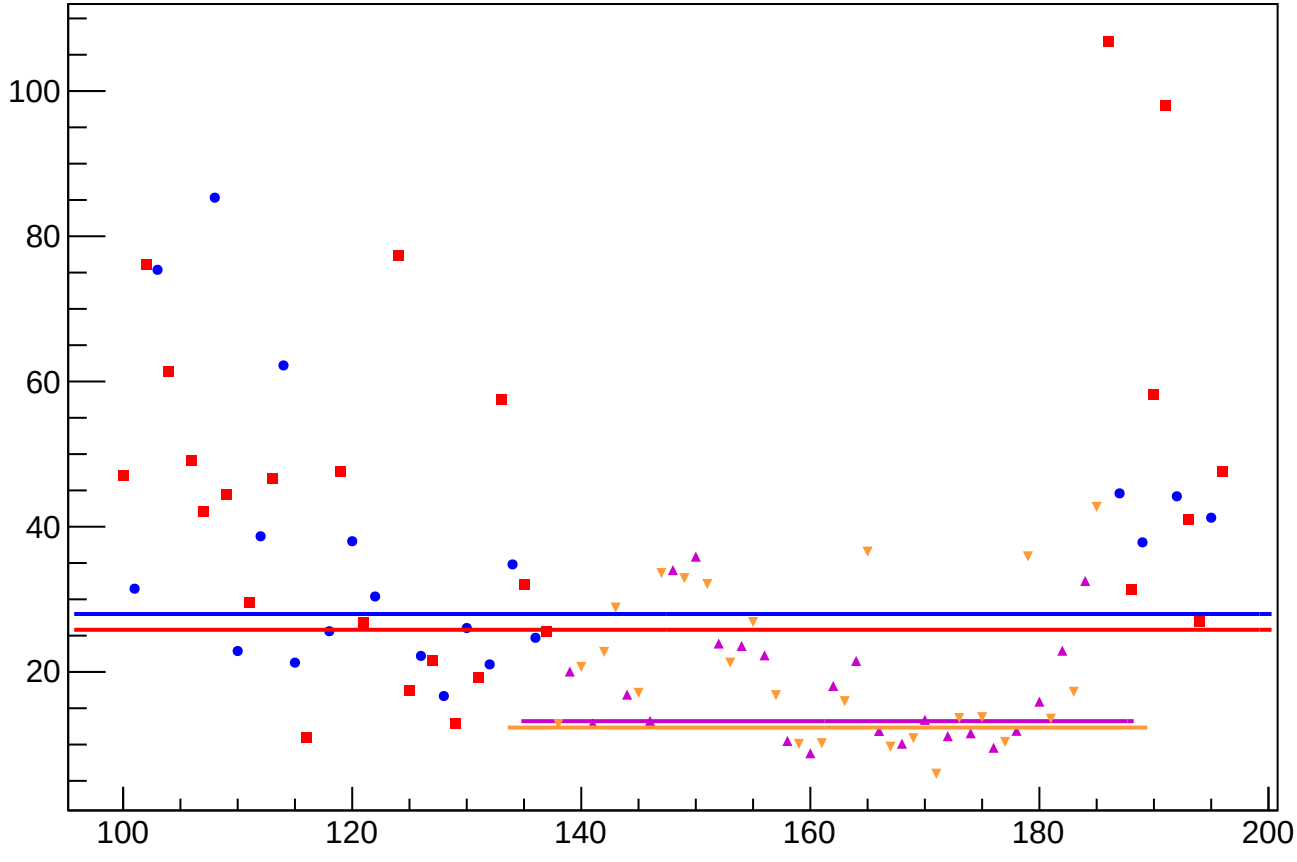
Right: -0.007+/-0.007 $\chi^2$/NDF: 38.8/45

In: -0.003+/-0.003 $\chi^2$/NDF:57.9/42

Out: 0.005+/-0.003 $\chi^2$/NDF:81.7/50

All: 0.001+/-0.002 $\chi^2$/NDF: 142.2/93

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.981+/-0.007 $\chi^2$/NDF: 1913800.1/19

Left Out: 12.343+/-0.002 $\chi^2$/NDF:6743823.4/24

Right Out: 25.807+/-0.007 $\chi^2$/NDF: 4909498.2/25

Left In: 13.225+/-0.003 $\chi^2$/NDF:3870507.9/22

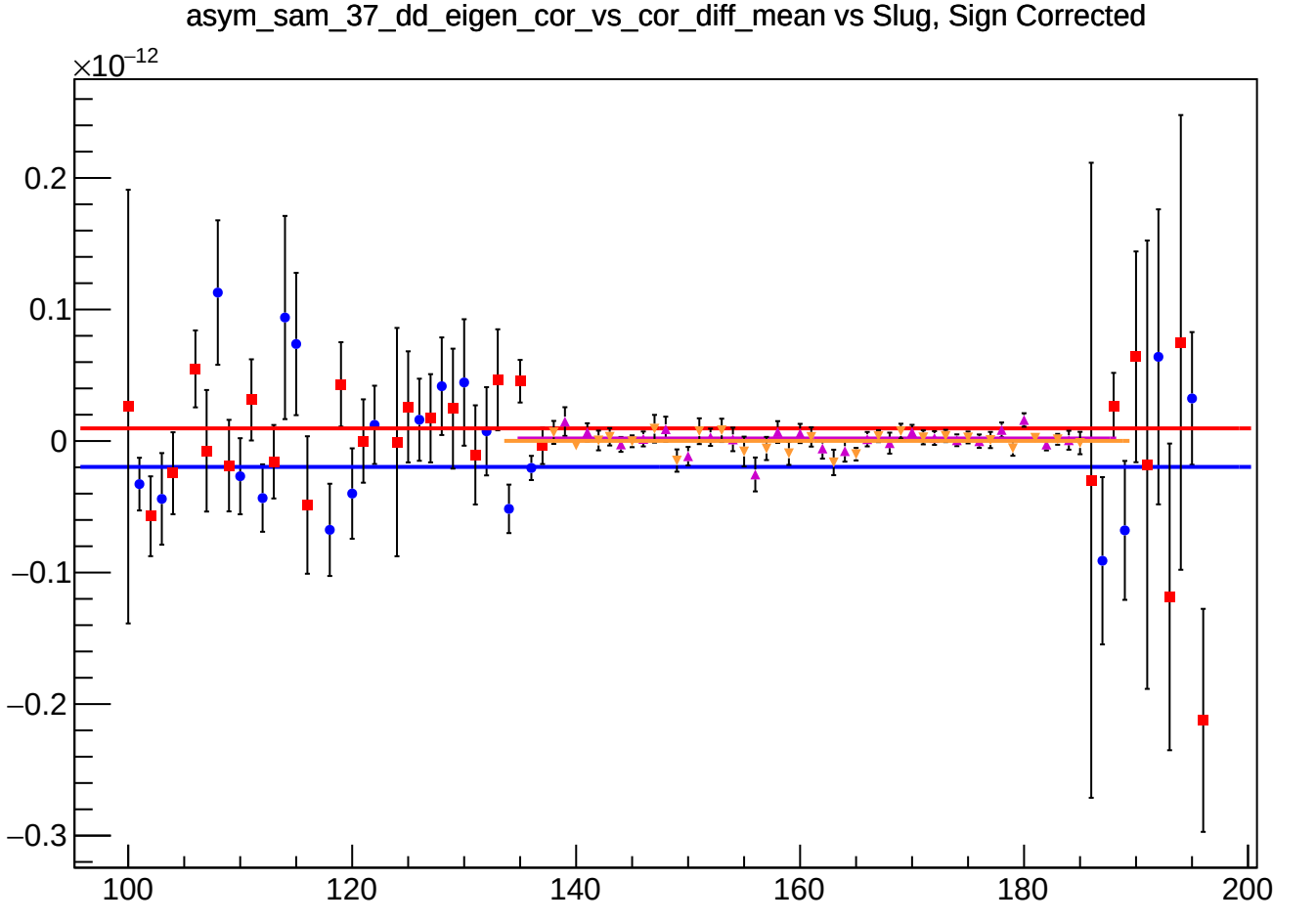
Left: 12.762+/-0.002 $\chi^2$/NDF: 10676265.0/47

Right: 26.781+/-0.005 $\chi^2$/NDF: 6872001.2/45

In: 14.843+/-0.002 $\chi^2$/NDF:9401051.2/42

Out: 13.967+/-0.002 $\chi^2$/NDF:15319641.2/50

All: 14.380+/-0.002 $\chi^2$/NDF: 24789645.6/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 29.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.4/22

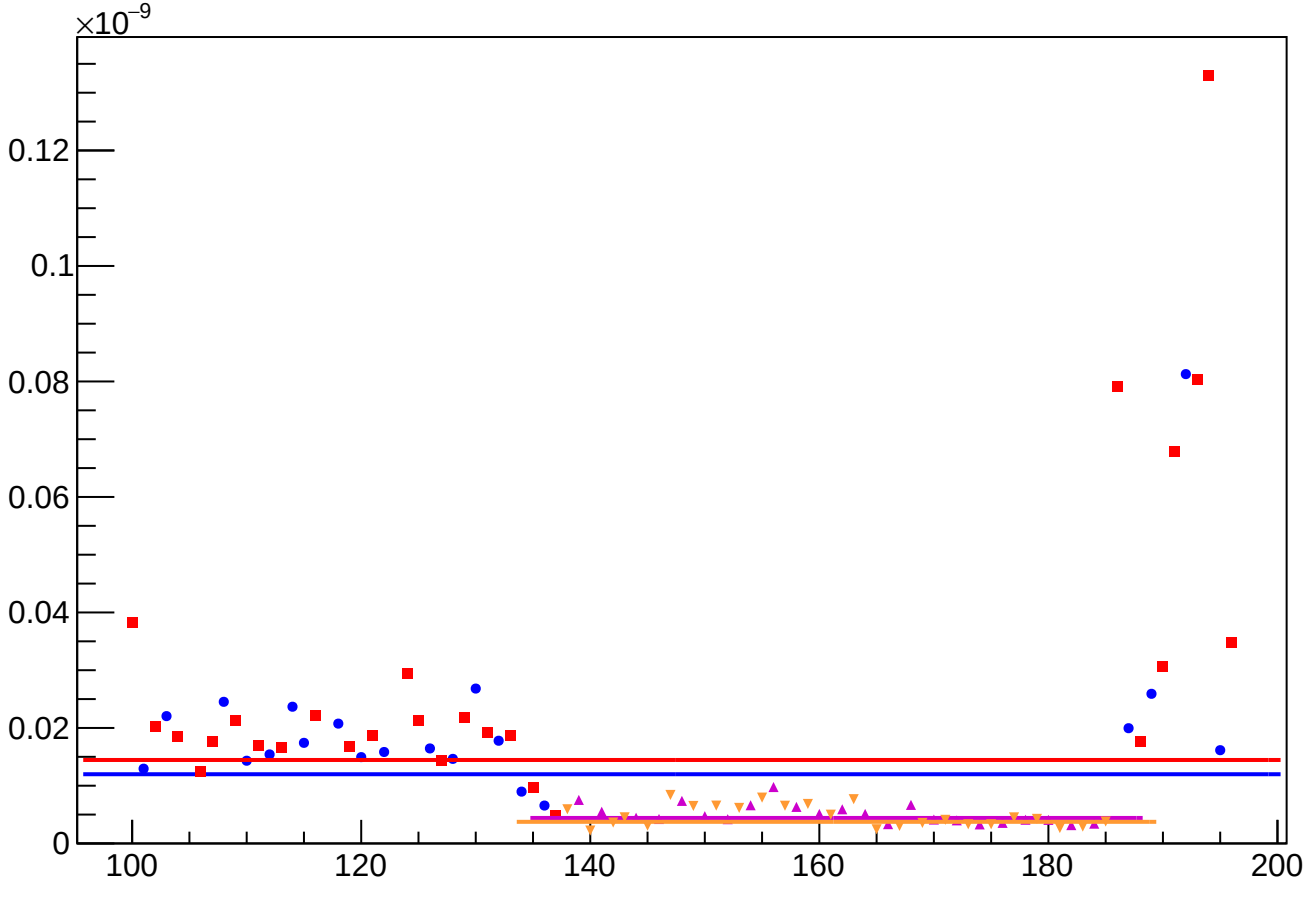
Left: 0.000+/-0.000 $\chi^2$/NDF: 48.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 70.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:67.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:53.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 120.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2560600.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3083424.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3867352.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1736522.0/22

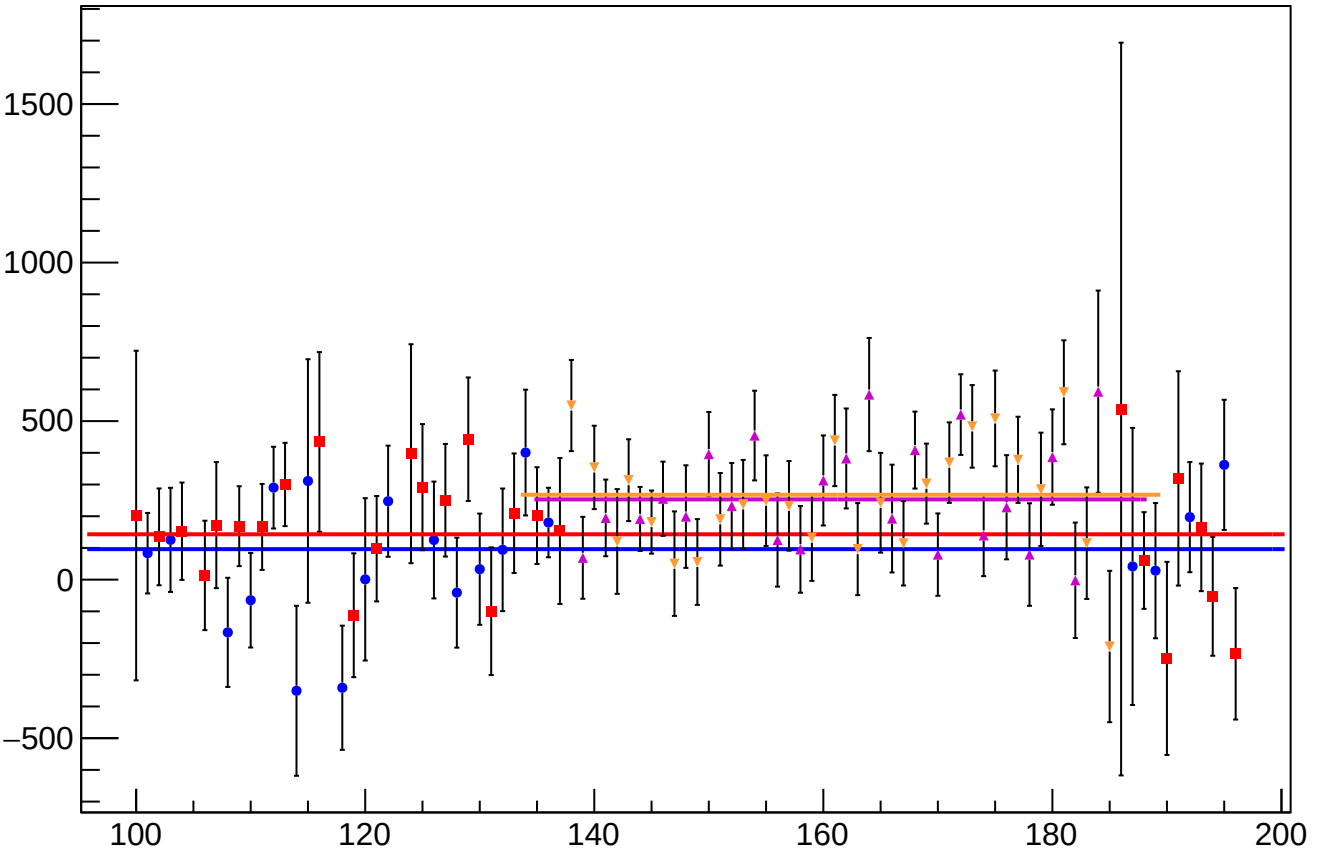
Left: 0.000+/-0.000 $\chi^2$/NDF: 5111609.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6585901.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:7416746.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12228768.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 19973601.7/93




Right In: 96.189+/-39.300 $\chi^2$/NDF: 20.6/19

Left Out: 267.782+/-28.407 $\chi^2$/NDF:31.0/24

Right Out: 143.087+/-36.657 $\chi^2$/NDF: 17.3/25

Left In: 253.048+/-29.313 $\chi^2$/NDF:26.2/22

Left: 260.646+/-20.400 $\chi^2$/NDF: 57.3/47

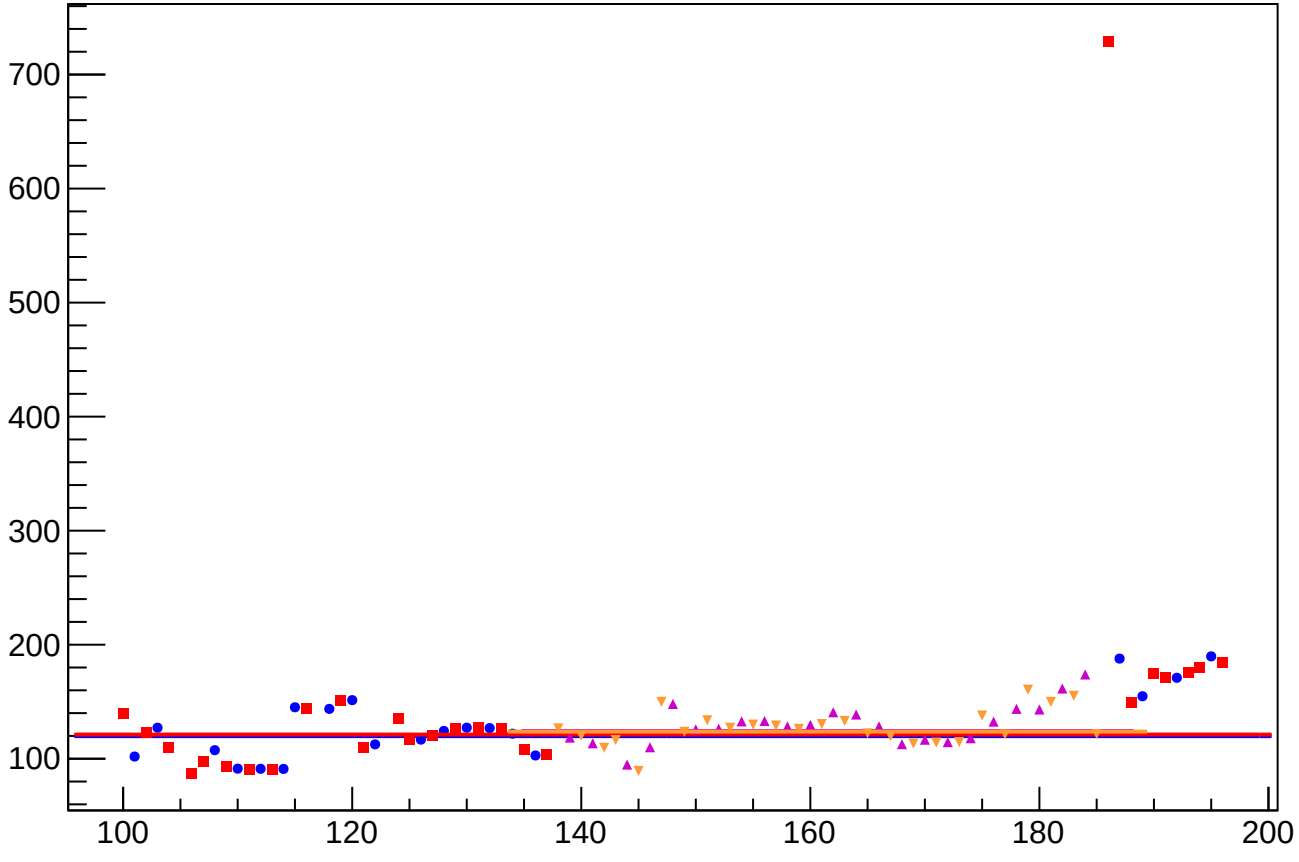
Right: 121.268+/-26.806 $\chi^2$/NDF: 38.6/45

In: 196.977+/-23.497 $\chi^2$/NDF:57.0/42

Out: 220.995+/-22.454 $\chi^2$/NDF:55.5/50

All: 209.531+/-16.234 $\chi^2$/NDF: 113.1/93

# reg_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 119.820+/-0.028 $\chi^2$/NDF: 885603.3/19

Left Out: 123.807+/-0.020 $\chi^2$/NDF:598444.2/24

Right Out: 121.187+/-0.026 $\chi^2$/NDF: 1791736.4/25

Left In: 124.259+/-0.021 $\chi^2$/NDF:557214.9/22

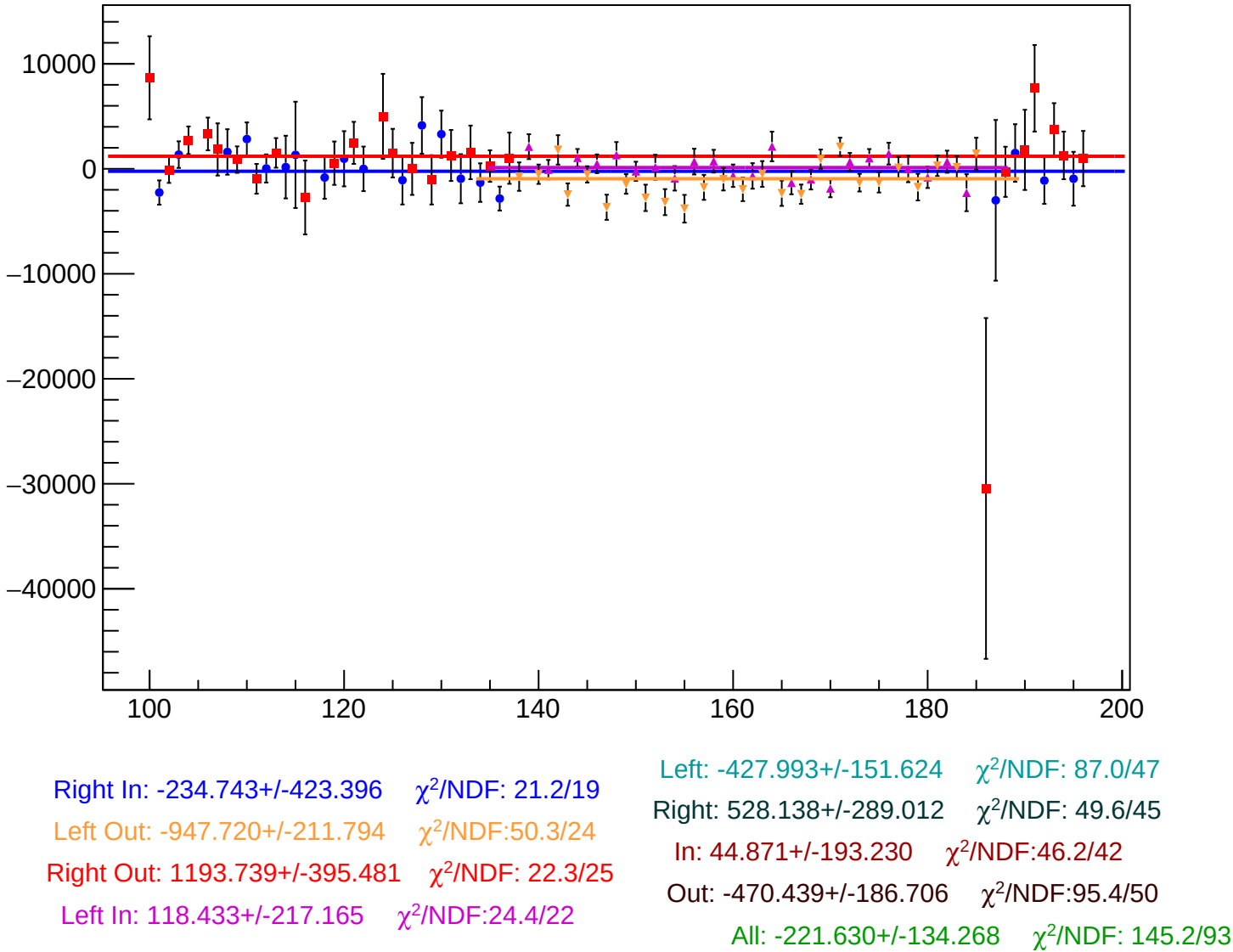
Left: 124.026+/-0.014 $\chi^2$/NDF: 1155903.7/47

Right: 120.551+/-0.019 $\chi^2$/NDF: 2678634.5/45

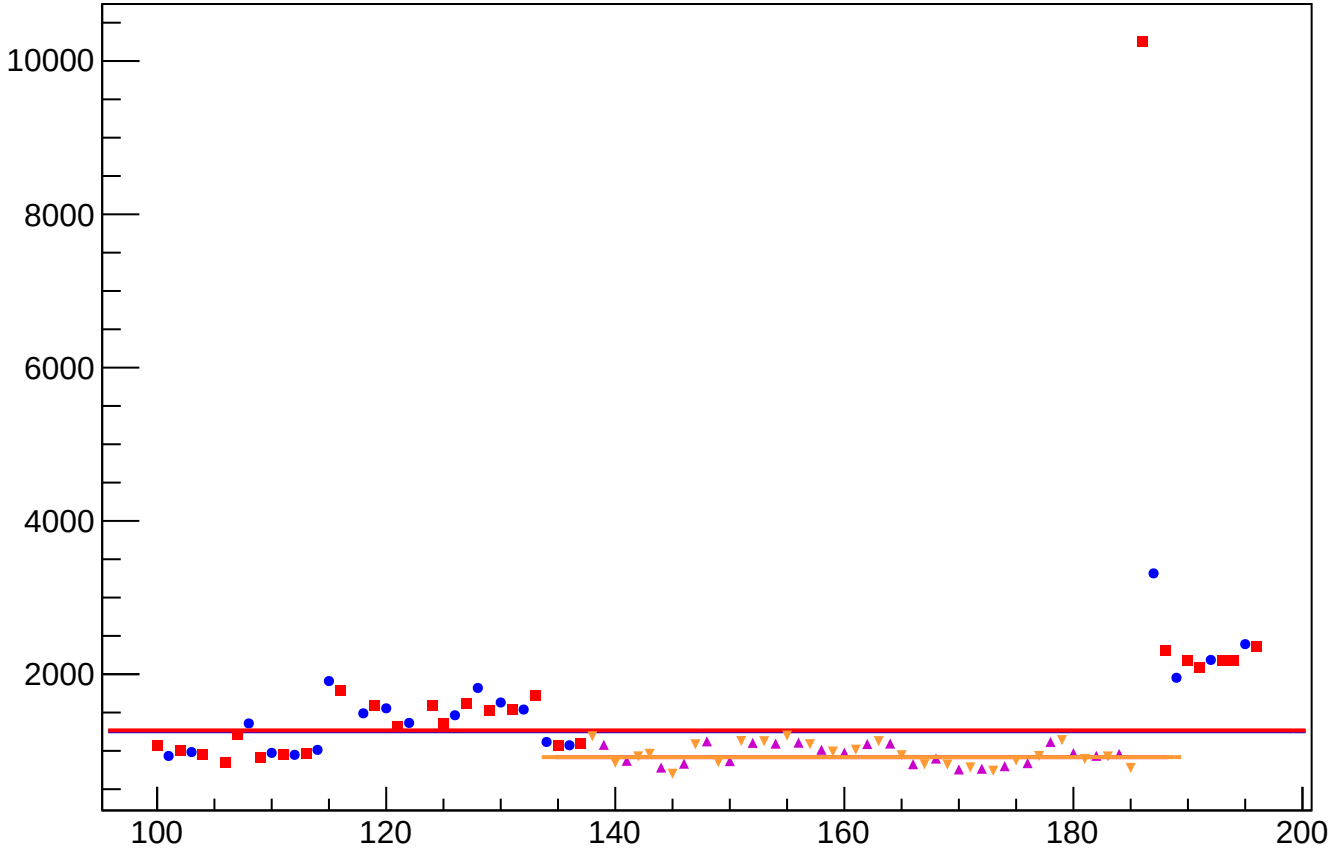
In: 122.672+/-0.017 $\chi^2$/NDF:1459212.5/42

Out: 122.824+/-0.016 $\chi^2$/NDF:2396564.1/50

All: 122.752+/-0.011 $\chi^2$/NDF: 3855820.4/93


asym_sam_48_dd_reg_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
100
120
140
160
180
200
Right In: -234.743+/-423.396 χ²/NDF: 21.2/19
Left Out: -947.720+/-211.794 χ²/NDF:50.3/24
Right Out: 1193.739+/-395.481 χ²/NDF: 22.3/25
Left In: 118.433+/-217.165 χ²/NDF:24.4/22
Left: -427.993+/-151.624 χ²/NDF: 87.0/47
Right: 528.138+/-289.012 χ²/NDF: 49.6/45
In: 44.871+/-193.230 χ²/NDF:46.2/42
Out: -470.439+/-186.706 χ²/NDF:95.4/50
All: -221.630+/-134.268 χ²/NDF: 145.2/93

asym_sam_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 1256.010+/-0.299 $\chi^2$/NDF: 1795789.8/19

Left Out: 918.501+/-0.150 $\chi^2$/NDF:887820.0/24

Right Out: 1266.854+/-0.280 $\chi^2$/NDF: 3147072.9/25

Left In: 918.214+/-0.154 $\chi^2$/NDF:666262.3/22

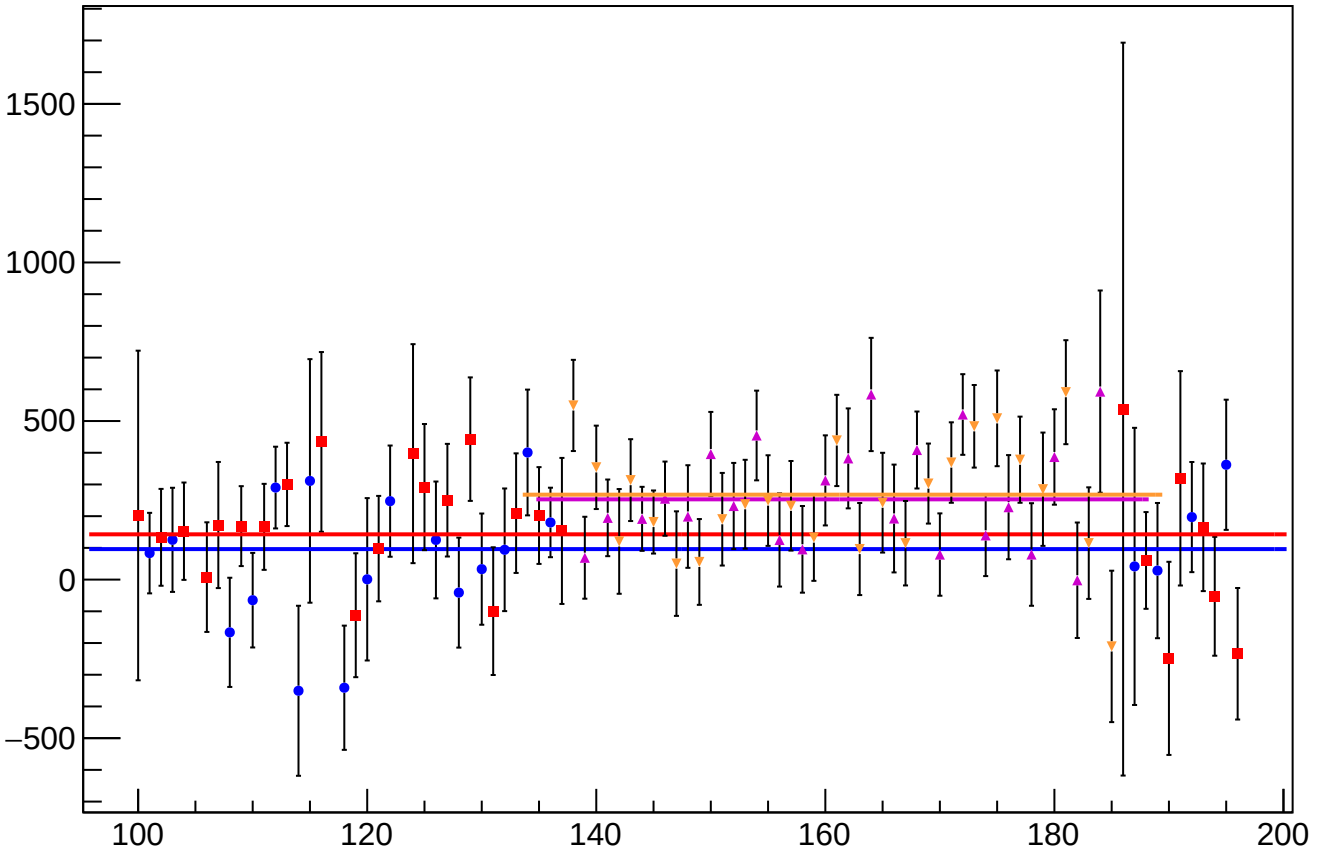
Left: 918.361+/-0.107 $\chi^2$/NDF: 1554084.1/47

Right: 1261.801+/-0.204 $\chi^2$/NDF: 4943563.2/45

In: 988.572+/-0.137 $\chi^2$/NDF:3469948.8/42

Out: 996.141+/-0.132 $\chi^2$/NDF:5240780.6/50

All: 992.486+/-0.095 $\chi^2$/NDF: 8712316.5/93




Right In: 96.180+/-39.300 $\chi^2$/NDF: 20.6/19

Left Out: 267.791+/-28.407 $\chi^2$/NDF:31.0/24

Right Out: 142.761+/-36.661 $\chi^2$/NDF: 17.3/25

Left In: 253.051+/-29.313 $\chi^2$/NDF:26.2/22

Left: 260.652+/-20.400 $\chi^2$/NDF: 57.3/47

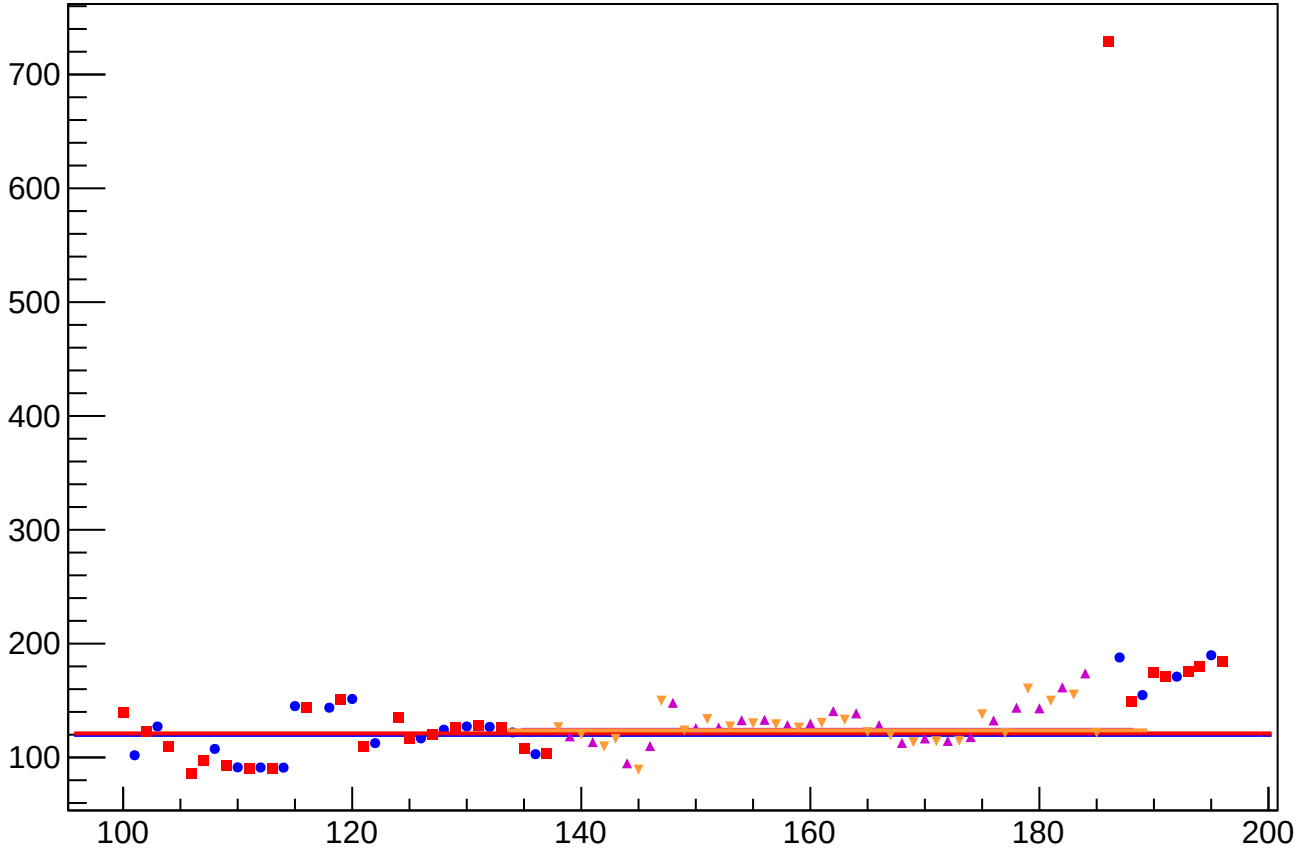
Right: 121.087+/-26.808 $\chi^2$/NDF: 38.7/45

In: 196.976+/-23.497 $\chi^2$/NDF:57.0/42

Out: 220.885+/-22.455 $\chi^2$/NDF:55.6/50

All: 209.472+/-16.234 $\chi^2$/NDF: 113.1/93

# cor_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 119.820+/-0.028 $\chi^2$/NDF: 885603.8/19

Left Out: 123.807+/-0.020 $\chi^2$/NDF:598444.2/24

Right Out: 121.144+/-0.026 $\chi^2$/NDF: 1796790.5/25

Left In: 124.259+/-0.021 $\chi^2$/NDF:557214.9/22

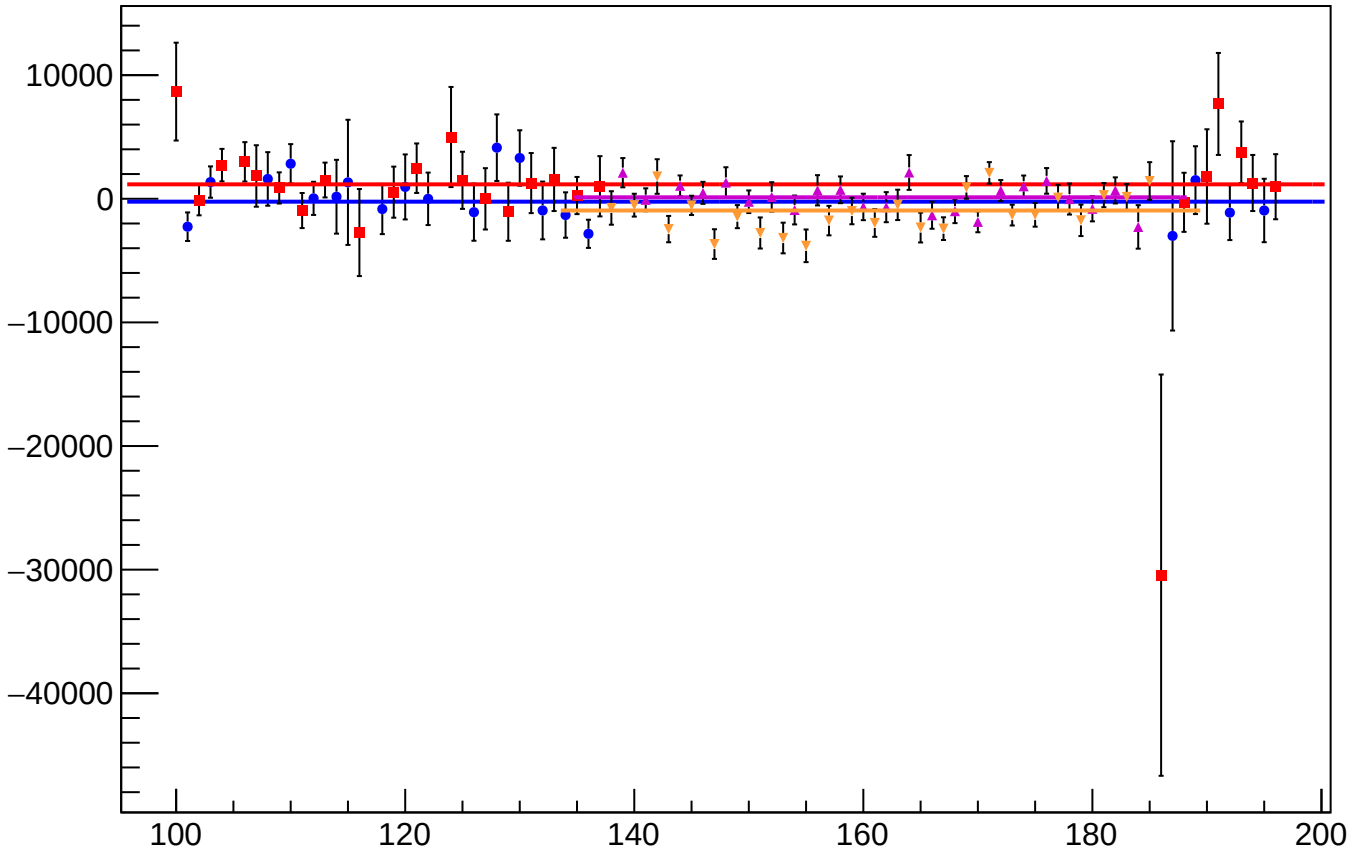
Left: 124.026+/-0.014 $\chi^2$/NDF: 1155903.8/47

Right: 120.528+/-0.019 $\chi^2$/NDF: 2683608.9/45

In: 122.672+/-0.017 $\chi^2$/NDF:1459212.9/42

Out: 122.808+/-0.016 $\chi^2$/NDF:2401828.5/50

All: 122.743+/-0.011 $\chi^2$/NDF: 3861076.5/93




Right In: -234.825+/-423.399 $\chi^2$/NDF: 21.2/19

Left Out: -947.709+/-211.794 $\chi^2$/NDF:50.3/24

Right Out: 1167.110+/-396.081 $\chi^2$/NDF: 21.7/25

Left In: 118.435+/-217.165 $\chi^2$/NDF:24.4/22

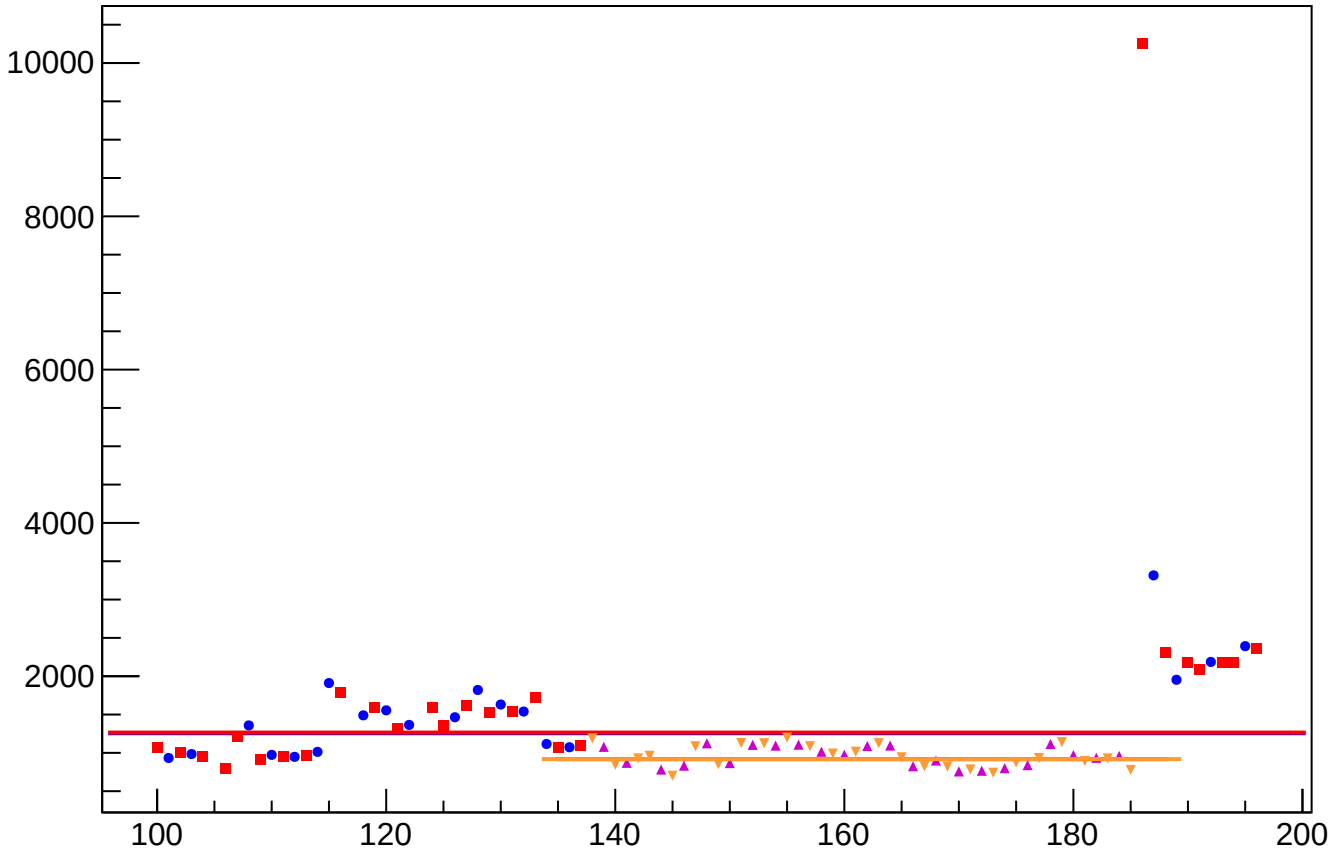
Left: -427.986+/-151.624 $\chi^2$/NDF: 87.0/47

Right: 512.824+/-289.247 $\chi^2$/NDF: 48.8/45

In: 44.857+/-193.231 $\chi^2$/NDF:46.2/42

Out: -477.476+/-186.769 $\chi^2$/NDF:94.1/50

All: -225.189+/-134.292 $\chi^2$/NDF: 144.1/93




Right In: 1256.020+/-0.299 $\chi^2$/NDF: 1795738.9/19

Left Out: 918.501+/-0.150 $\chi^2$/NDF:887819.5/24

Right Out: 1265.027+/-0.280 $\chi^2$/NDF: 3175562.1/25

Left In: 918.214+/-0.154 $\chi^2$/NDF:666263.4/22

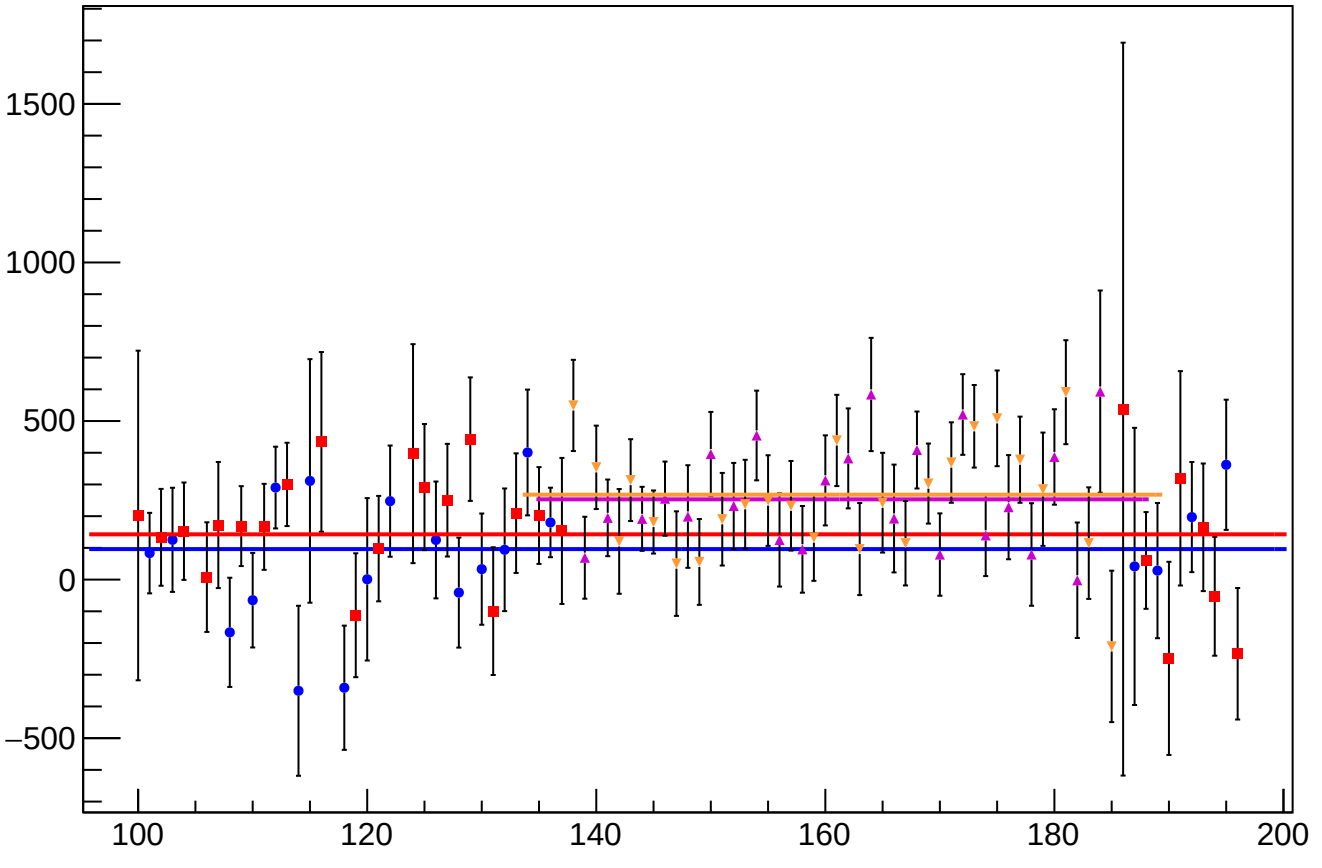
Left: 918.361+/-0.107 $\chi^2$/NDF: 1554084.7/47

Right: 1260.824+/-0.205 $\chi^2$/NDF: 4971783.5/45

In: 988.573+/-0.137 $\chi^2$/NDF:3469947.4/42

Out: 995.552+/-0.132 $\chi^2$/NDF:5253841.9/50

All: 992.181+/-0.095 $\chi^2$/NDF: 8725138.0/93




Right In: 96.180+/-39.300 $\chi^2$/NDF: 20.6/19

Left Out: 267.791+/-28.407 $\chi^2$/NDF:31.0/24

Right Out: 142.761+/-36.661 $\chi^2$/NDF: 17.3/25

Left In: 253.051+/-29.313 $\chi^2$/NDF:26.2/22

Left: 260.652+/-20.400 $\chi^2$/NDF: 57.3/47

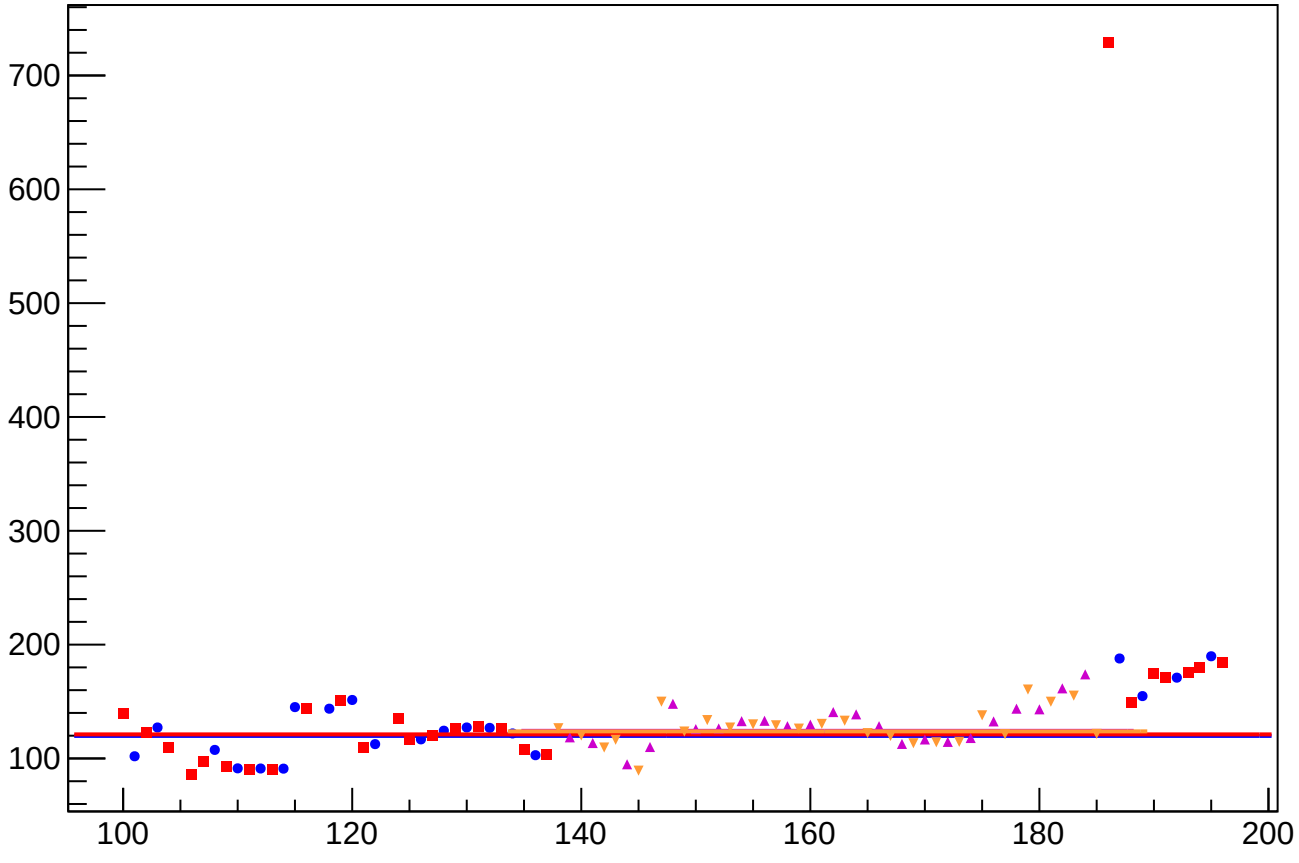
Right: 121.087+/-26.808 $\chi^2$/NDF: 38.7/45

In: 196.976+/-23.497 $\chi^2$/NDF:57.0/42

Out: 220.885+/-22.455 $\chi^2$/NDF:55.6/50

All: 209.472+/-16.234 $\chi^2$/NDF: 113.1/93

# eigen_cor_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 119.820+/-0.028 $\chi^2$/NDF: 885603.8/19

Left Out: 123.807+/-0.020 $\chi^2$/NDF:598444.2/24

Right Out: 121.144+/-0.026 $\chi^2$/NDF: 1796790.5/25

Left In: 124.259+/-0.021 $\chi^2$/NDF:557214.9/22

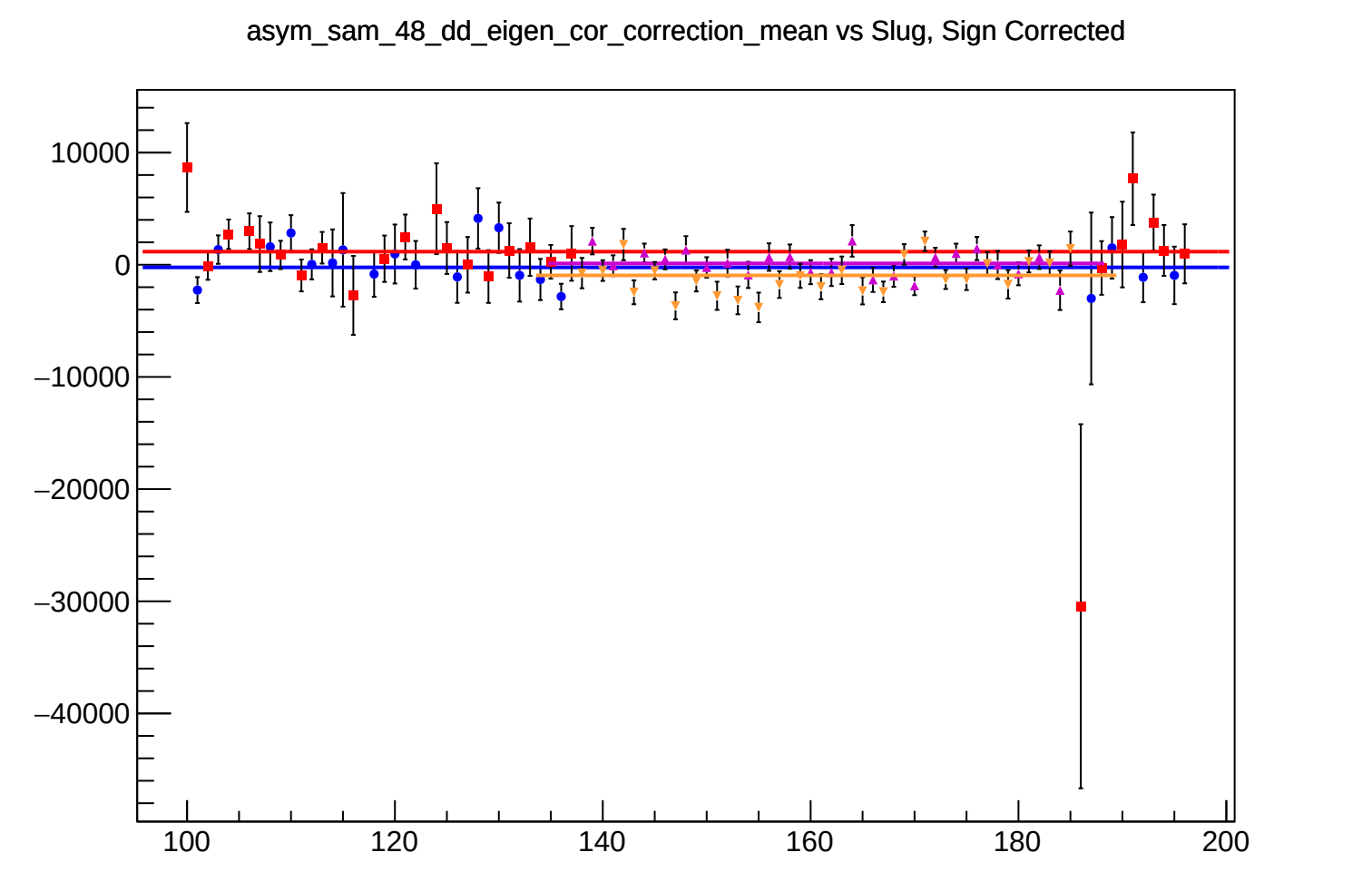
Left: 124.026+/-0.014 $\chi^2$/NDF: 1155903.8/47

Right: 120.528+/-0.019 $\chi^2$/NDF: 2683608.9/45

In: 122.672+/-0.017 $\chi^2$/NDF:1459212.9/42

Out: 122.808+/-0.016 $\chi^2$/NDF:2401828.5/50

All: 122.743+/-0.011 $\chi^2$/NDF: 3861076.5/93




Right In: -234.825+/-423.399 $\chi^2$/NDF: 21.2/19

Left Out: -947.709+/-211.794 $\chi^2$/NDF:50.3/24

Right Out: 1167.110+/-396.081 $\chi^2$/NDF: 21.7/25

Left In: 118.435+/-217.165 $\chi^2$/NDF:24.4/22

Left: -427.986+/-151.624 $\chi^2$/NDF: 87.0/47

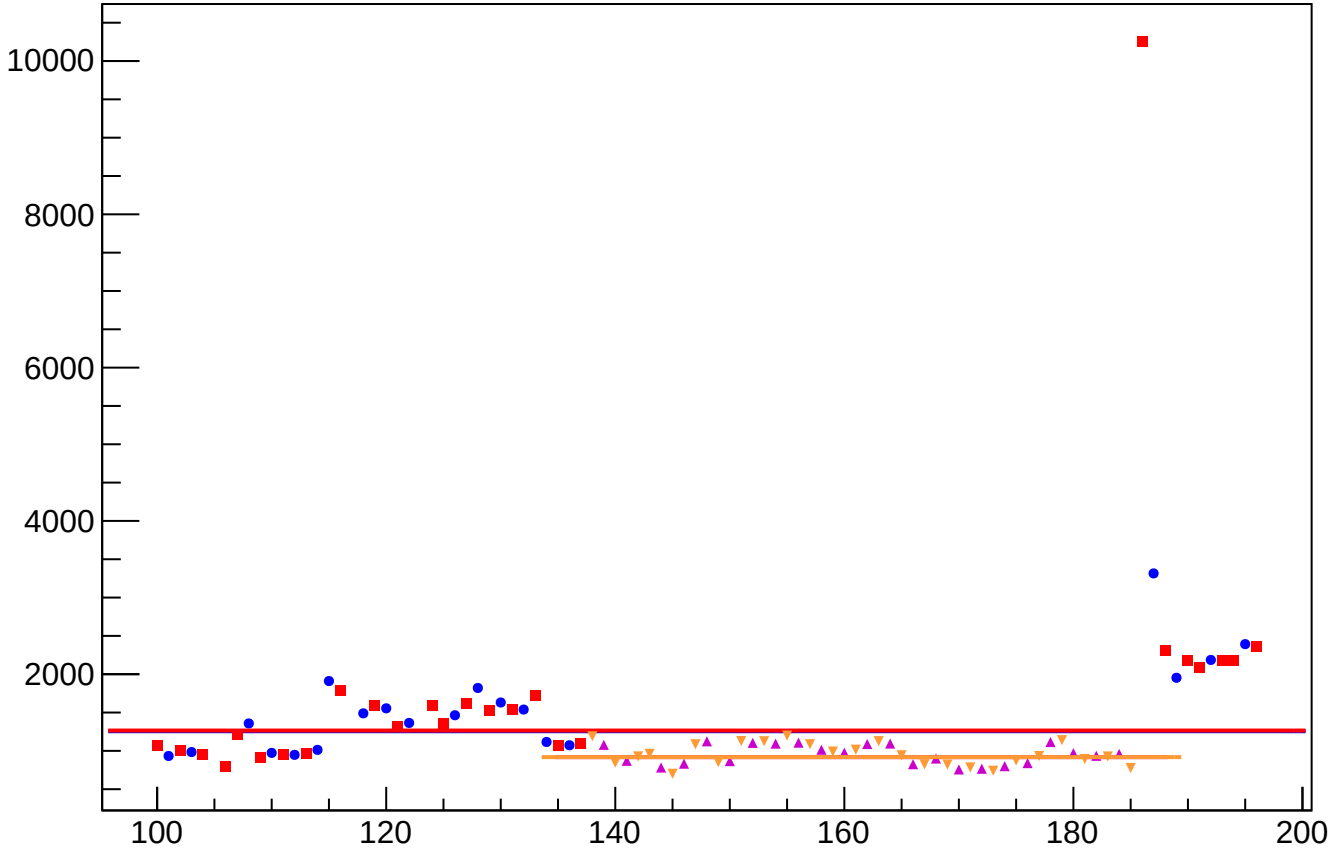
Right: 512.824+/-289.247 $\chi^2$/NDF: 48.8/45

In: 44.857+/-193.231 $\chi^2$/NDF:46.2/42

Out: -477.476+/-186.769 $\chi^2$/NDF:94.1/50

All: -225.189+/-134.292 $\chi^2$/NDF: 144.1/93

asym_sam_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 1256.020+/-0.299 $\chi^2$/NDF: 1795738.9/19

Left Out: 918.501+/-0.150 $\chi^2$/NDF:887819.5/24

Right Out: 1265.027+/-0.280 $\chi^2$/NDF: 3175562.1/25

Left In: 918.214+/-0.154 $\chi^2$/NDF:666263.4/22

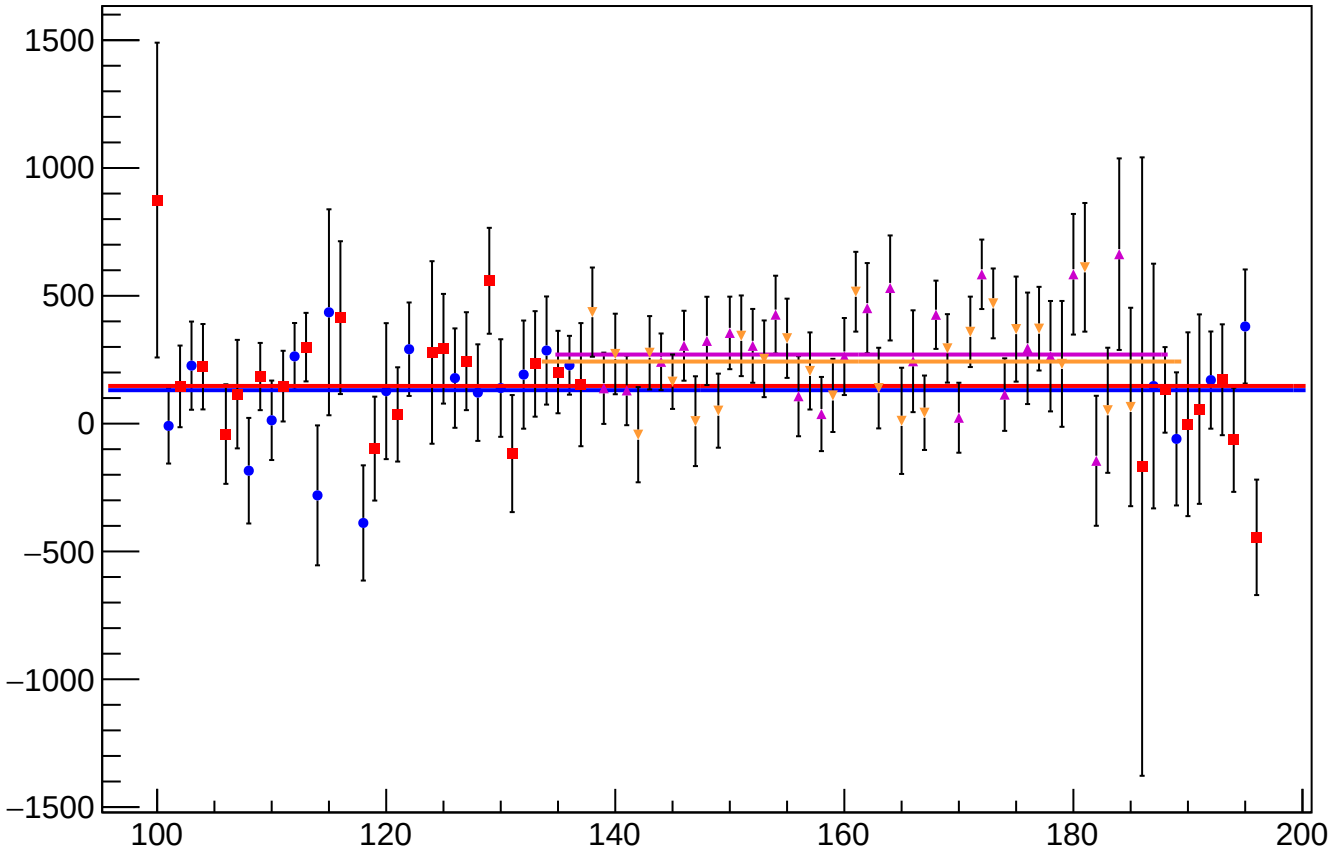
Left: 918.361+/-0.107 $\chi^2$/NDF: 1554084.7/47

Right: 1260.824+/-0.205 $\chi^2$/NDF: 4971783.5/45

In: 988.573+/-0.137 $\chi^2$/NDF:3469947.4/42

Out: 995.552+/-0.132 $\chi^2$/NDF:5253841.9/50

All: 992.181+/-0.095 $\chi^2$/NDF: 8725138.0/93




Right In: 130.774+/-42.428 $\chi^2$/NDF: 17.3/19

Left Out: 242.890+/-32.138 $\chi^2$/NDF:23.7/24

Right Out: 147.415+/-39.175 $\chi^2$/NDF: 21.2/25

Left In: 270.243+/-32.893 $\chi^2$/NDF:26.7/22

Left: 256.249+/-22.987 $\chi^2$/NDF: 50.7/47

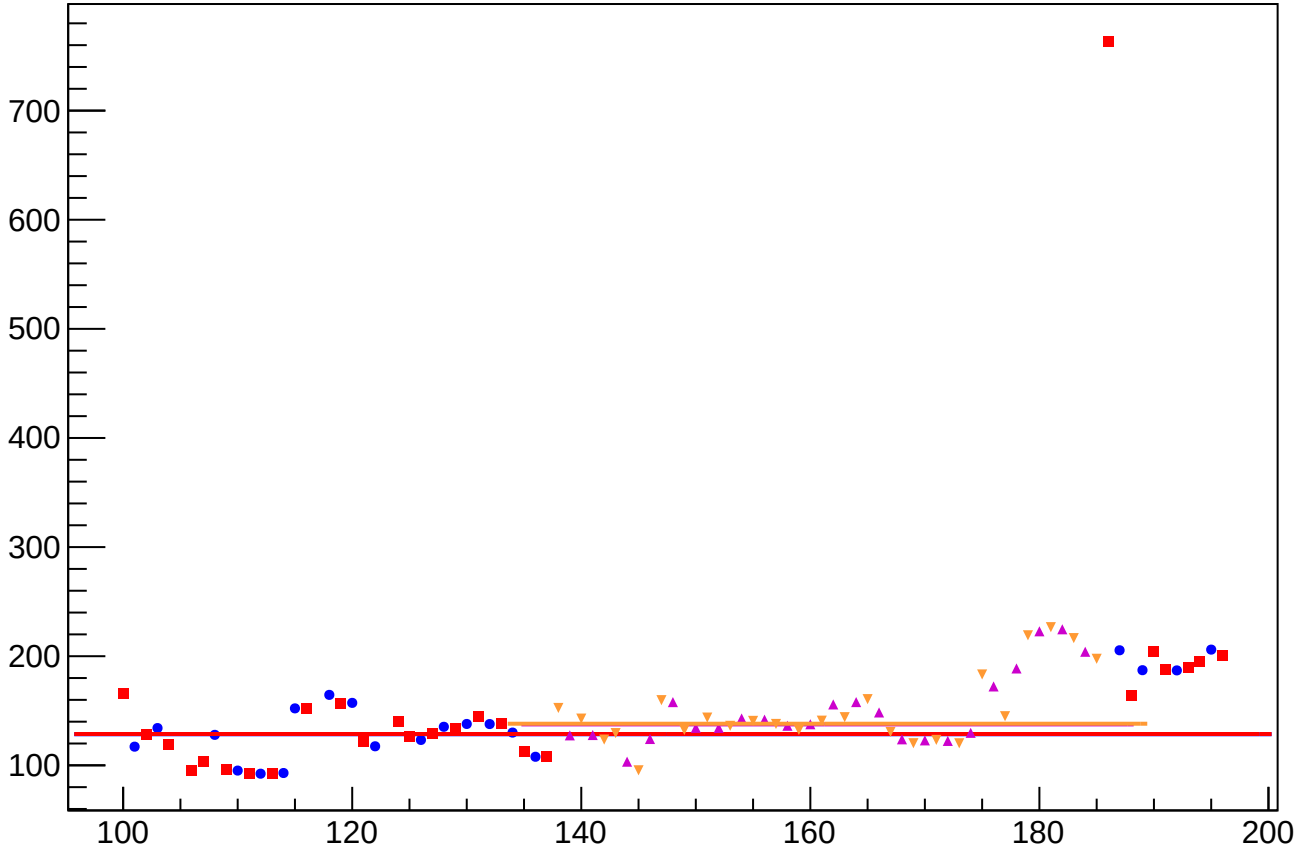
Right: 139.757+/-28.782 $\chi^2$/NDF: 38.6/45

In: 217.885+/-25.996 $\chi^2$/NDF:50.7/42

Out: 204.482+/-24.847 $\chi^2$/NDF:48.4/50

All: 210.881+/-17.962 $\chi^2$/NDF: 99.3/93

# dit_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 128.460+/-0.030 $\chi^2$/NDF: 1043784.5/19

Left Out: 138.127+/-0.023 $\chi^2$/NDF:1338308.5/24

Right Out: 128.704+/-0.028 $\chi^2$/NDF: 1960489.8/25

Left In: 137.491+/-0.023 $\chi^2$/NDF:1109333.5/22

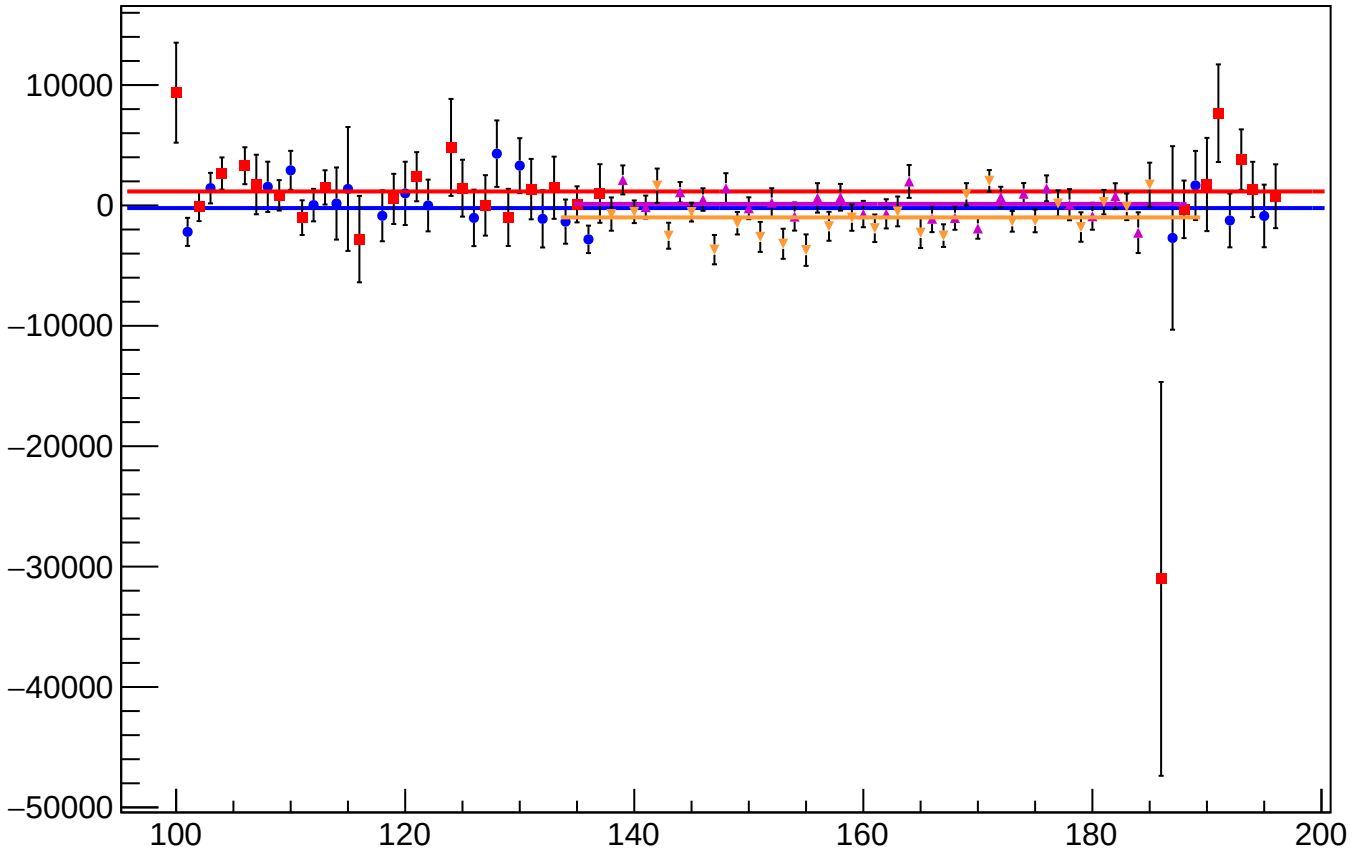
Left: 137.817+/-0.016 $\chi^2$/NDF: 2448024.6/47

Right: 128.592+/-0.020 $\chi^2$/NDF: 3004310.2/45

In: 134.101+/-0.018 $\chi^2$/NDF:2209723.1/42

Out: 134.336+/-0.018 $\chi^2$/NDF:3367969.7/50

All: 134.224+/-0.013 $\chi^2$/NDF: 5577778.7/93




Right In: -218.678+/-427.024 $\chi^2$/NDF: 21.2/19

Left Out: -993.237+/-215.652 $\chi^2$/NDF:46.9/24

Right Out: 1160.801+/-398.141 $\chi^2$/NDF: 22.6/25

Left In: 124.857+/-221.367 $\chi^2$/NDF:23.9/22

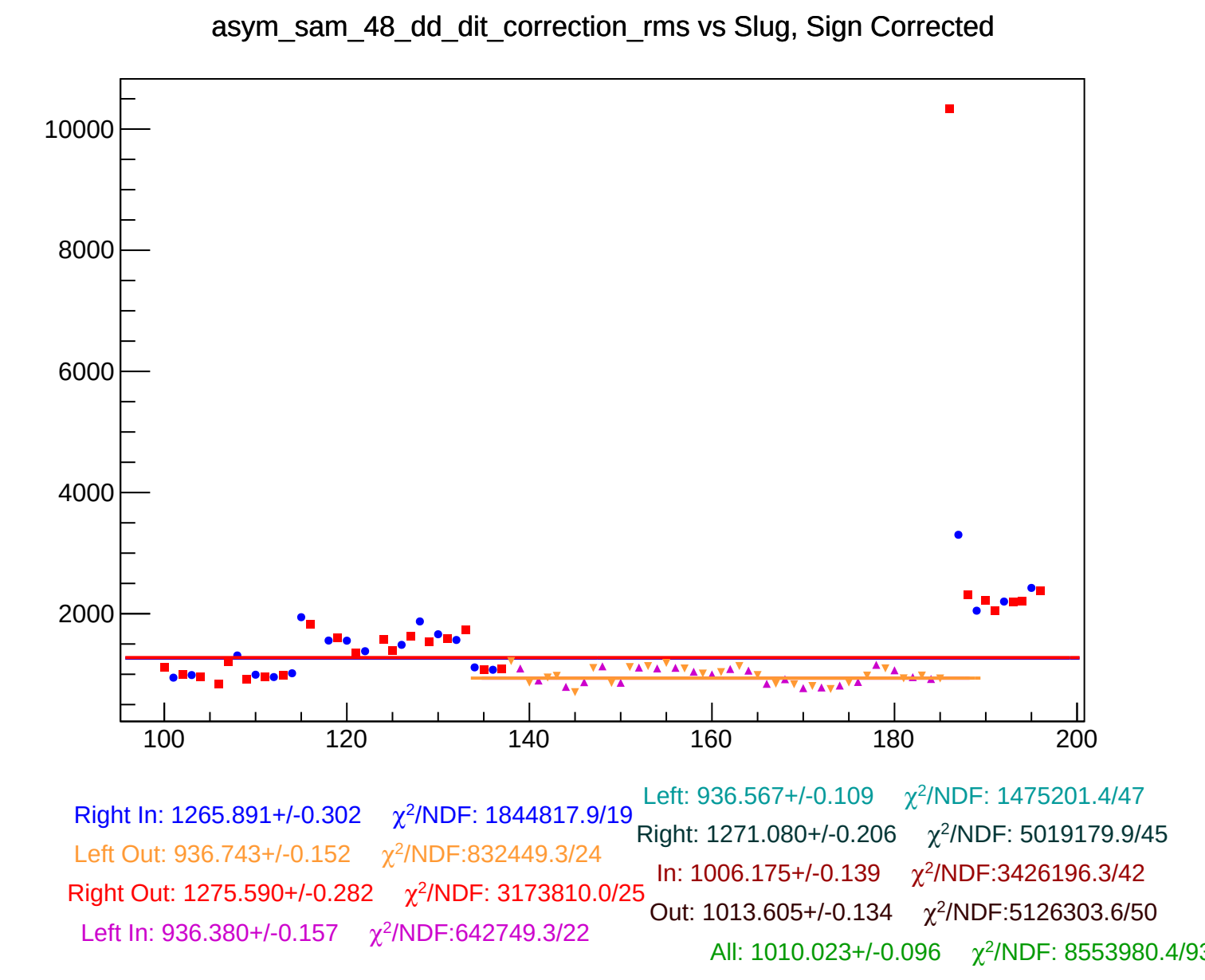
Left: -448.808+/-154.470 $\chi^2$/NDF: 83.9/47

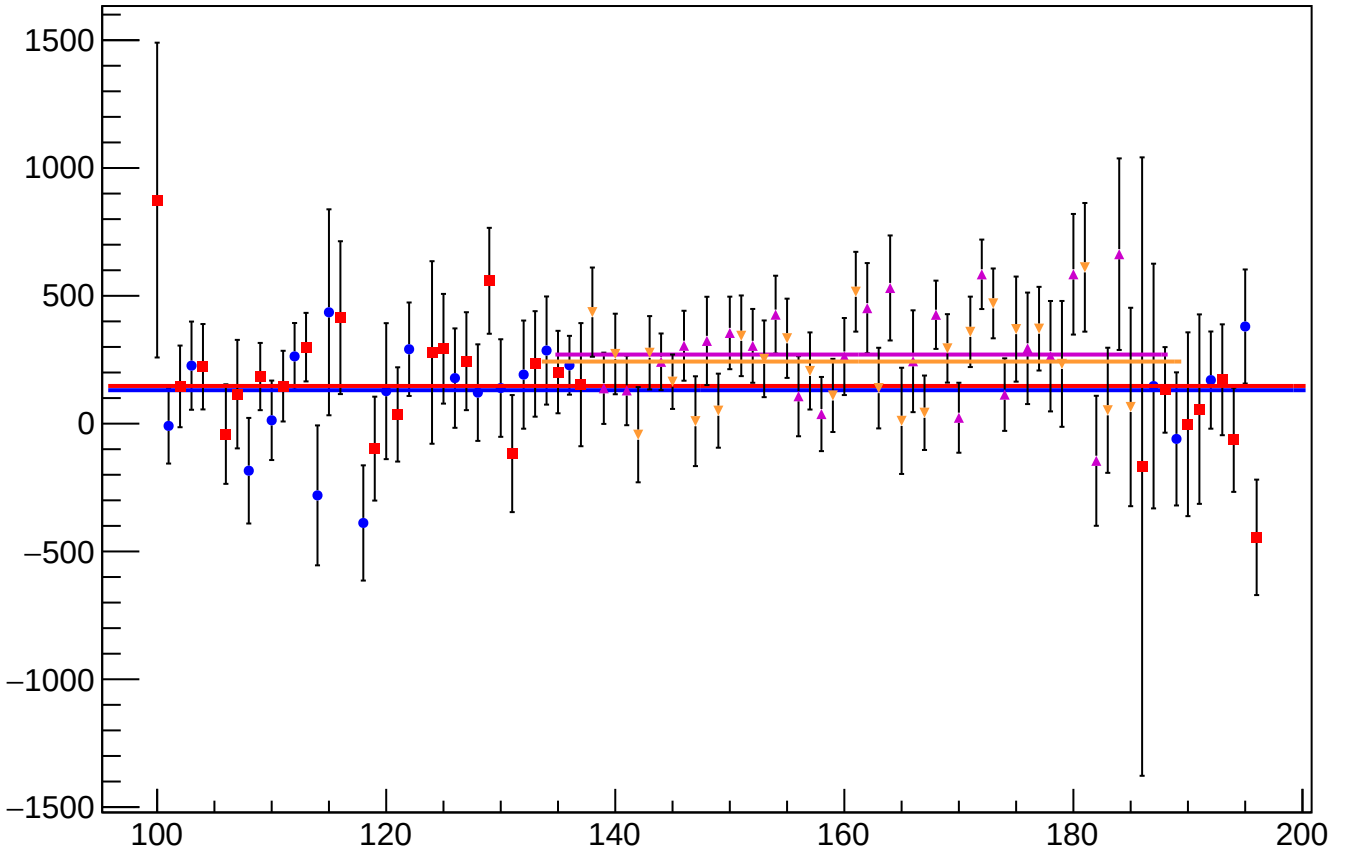
Right: 519.288+/-291.204 $\chi^2$/NDF: 49.4/45

In: 52.092+/-196.529 $\chi^2$/NDF:45.6/42

Out: -504.630+/-189.623 $\chi^2$/NDF:92.2/50

All: -236.223+/-136.460 $\chi^2$/NDF: 141.9/93


asym_sam_48_dd_dit_correction_rms vs Slug, Sign Corrected
10000
8000
6000
4000
2000
100
120
140
160
180
200
Right In: 1265.891+/-0.302 χ²/NDF: 1844817.9/19
Left Out: 936.743+/-0.152 χ²/NDF:832449.3/24
Right Out: 1275.590+/-0.282 χ²/NDF: 3173810.0/25
Left In: 936.380+/-0.157 χ²/NDF:642749.3/22
Left: 936.567+/-0.109 χ²/NDF: 1475201.4/47
Right: 1271.080+/-0.206 χ²/NDF: 5019179.9/45
In: 1006.175+/-0.139 χ²/NDF:3426196.3/42
Out: 1013.605+/-0.134 χ²/NDF:5126303.6/50
All: 1010.023+/-0.096 χ²/NDF: 8553980.4/93




Right In: 130.775+/-42.428 $\chi^2$/NDF: 17.3/19

Left Out: 242.892+/-32.138 $\chi^2$/NDF:23.7/24

Right Out: 147.415+/-39.175 $\chi^2$/NDF: 21.2/25

Left In: 270.244+/-32.893 $\chi^2$/NDF:26.7/22

Left: 256.251+/-22.987 $\chi^2$/NDF: 50.7/47

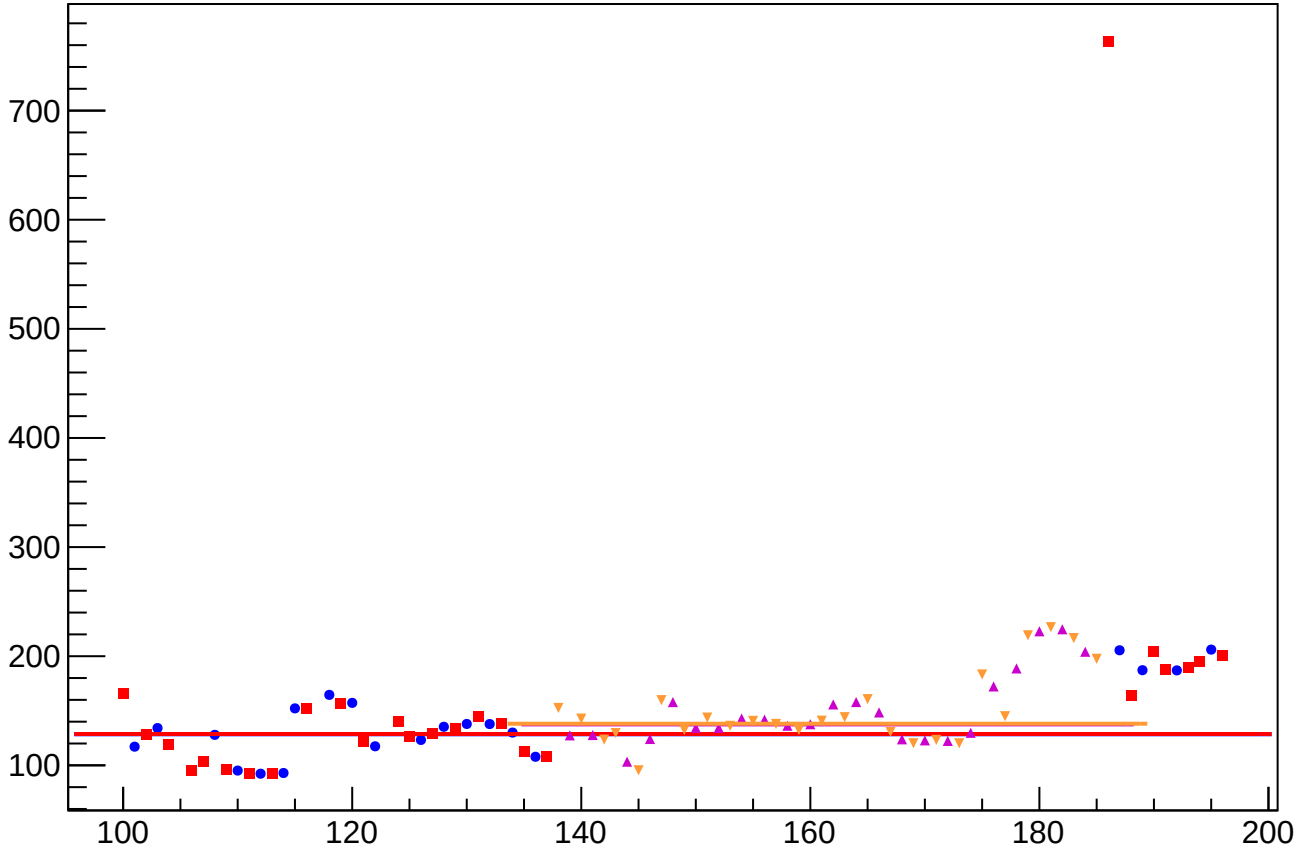
Right: 139.758+/-28.782 $\chi^2$/NDF: 38.6/45

In: 217.887+/-25.996 $\chi^2$/NDF:50.7/42

Out: 204.483+/-24.847 $\chi^2$/NDF:48.4/50

All: 210.882+/-17.962 $\chi^2$/NDF: 99.3/93

# eigen_dit_asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 128.460+/-0.030 $\chi^2$/NDF: 1043780.8/19

Left Out: 138.127+/-0.023 $\chi^2$/NDF:1338311.7/24

Right Out: 128.704+/-0.028 $\chi^2$/NDF: 1960492.7/25

Left In: 137.491+/-0.023 $\chi^2$/NDF:1109319.8/22

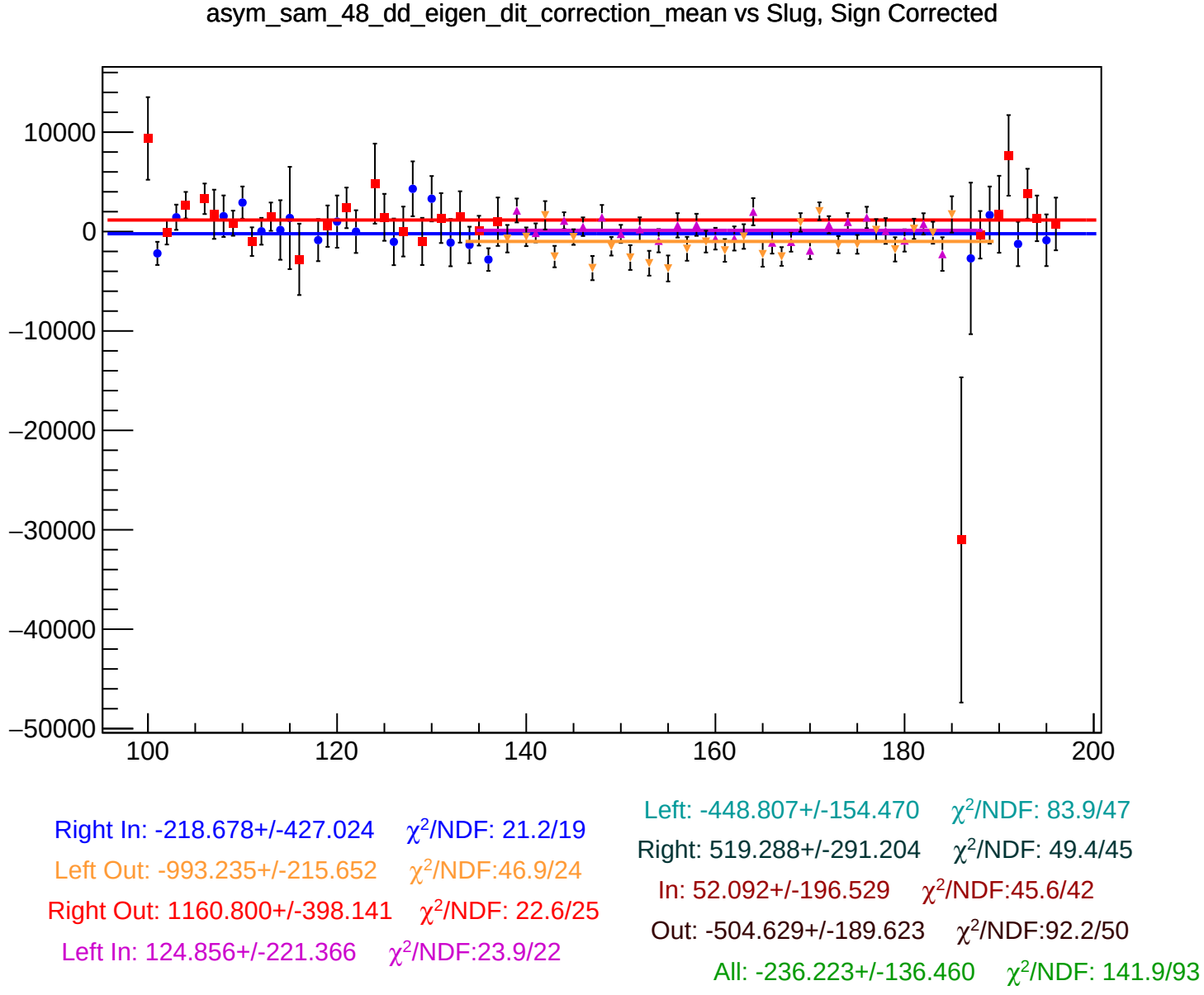
Left: 137.817+/-0.016 $\chi^2$/NDF: 2448014.1/47

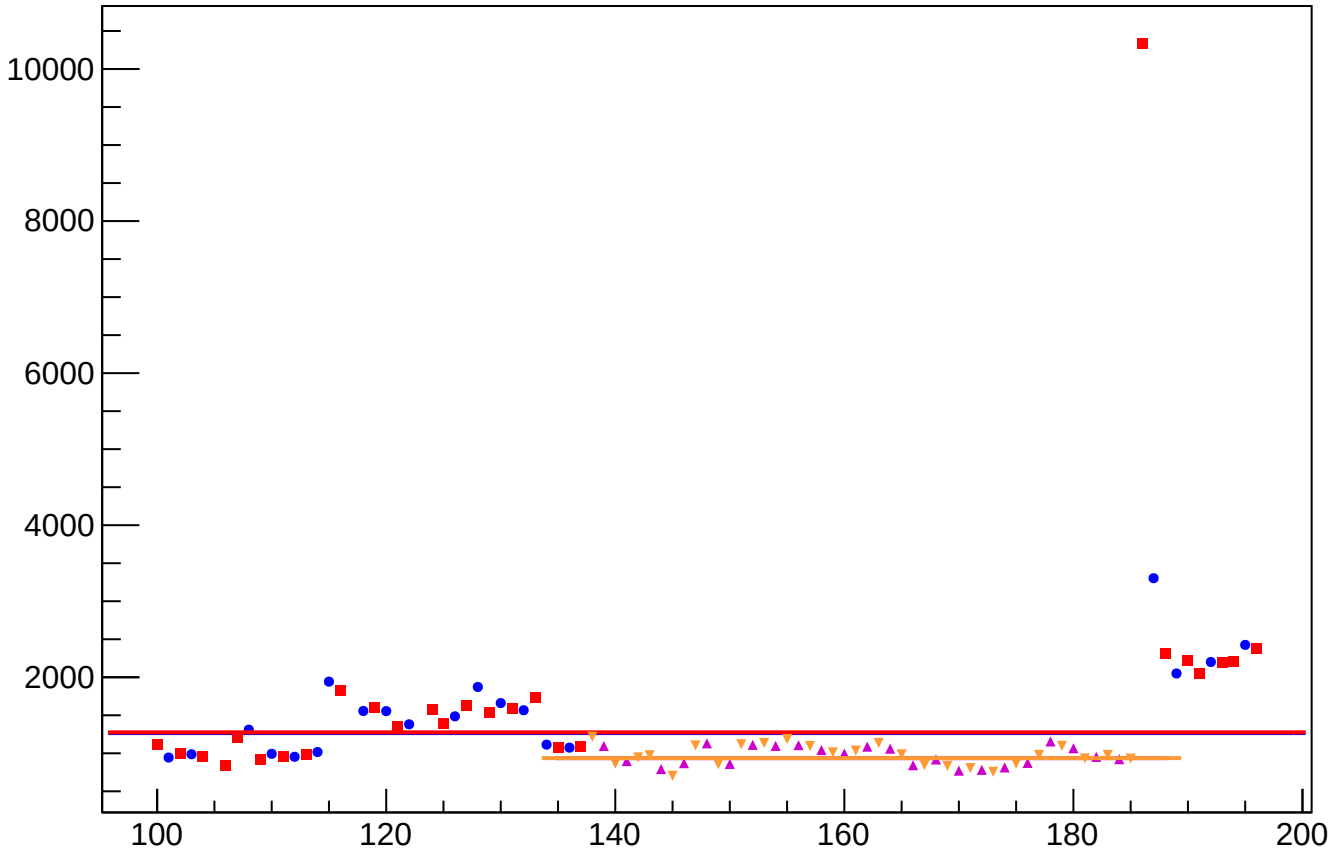
Right: 128.591+/-0.020 $\chi^2$/NDF: 3004309.3/45

In: 134.101+/-0.018 $\chi^2$/NDF:2209705.6/42

Out: 134.336+/-0.018 $\chi^2$/NDF:3367976.2/50

All: 134.224+/-0.013 $\chi^2$/NDF: 5577767.7/93


asym_sam_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
10000
0
−10000
−20000
−30000
−40000
−50000
100
120
140
160
180
200
Right In: -218.678+/-427.024 χ²/NDF: 21.2/19
Left Out: -993.235+/-215.652 χ²/NDF:46.9/24
Right Out: 1160.800+/-398.141 χ²/NDF: 22.6/25
Left In: 124.856+/-221.366 χ²/NDF:23.9/22
Left: -448.807+/-154.470 χ²/NDF: 83.9/47
Right: 519.288+/-291.204 χ²/NDF: 49.4/45
In: 52.092+/-196.529 χ²/NDF:45.6/42
Out: -504.629+/-189.623 χ²/NDF:92.2/50
All: -236.223+/-136.460 χ²/NDF: 141.9/93




Right In: 1265.891+/-0.302 $\chi^2$/NDF: 1844817.2/19

Left Out: 936.742+/-0.152 $\chi^2$/NDF:832452.0/24

Right Out: 1275.590+/-0.282 $\chi^2$/NDF: 3173804.9/25

Left In: 936.379+/-0.157 $\chi^2$/NDF:642748.0/22

Left: 936.566+/-0.109 $\chi^2$/NDF: 1475202.7/47

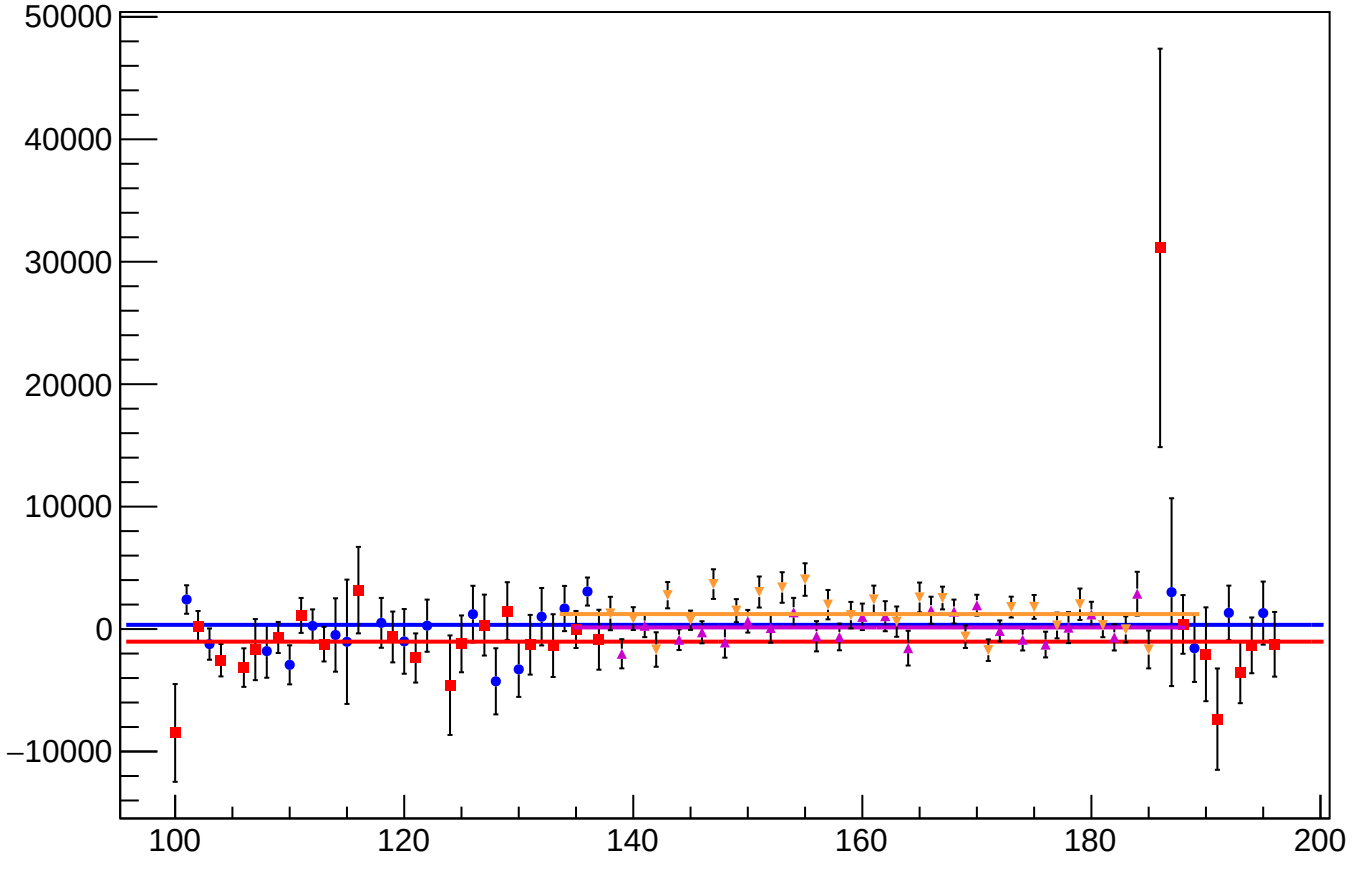
Right: 1271.079+/-0.206 $\chi^2$/NDF: 5019174.1/45

In: 1006.174+/-0.139 $\chi^2$/NDF:3426199.3/42

Out: 1013.604+/-0.134 $\chi^2$/NDF:5126307.5/50

All: 1010.022+/-0.096 $\chi^2$/NDF: 8553987.4/93

# asym_sam_48_dd_mean vs Slug, Sign Corrected




Right In: 344.347+/-425.582 $\chi^2$/NDF: 23.1/19

Left Out: 1225.521+/-213.843 $\chi^2$/NDF:48.5/24

Right Out: -1028.539+/-397.571 $\chi^2$/NDF: 22.3/25

Left In: 132.834+/-219.278 $\chi^2$/NDF:25.8/22

Left: 692.887+/-153.095 $\chi^2$/NDF: 87.1/47

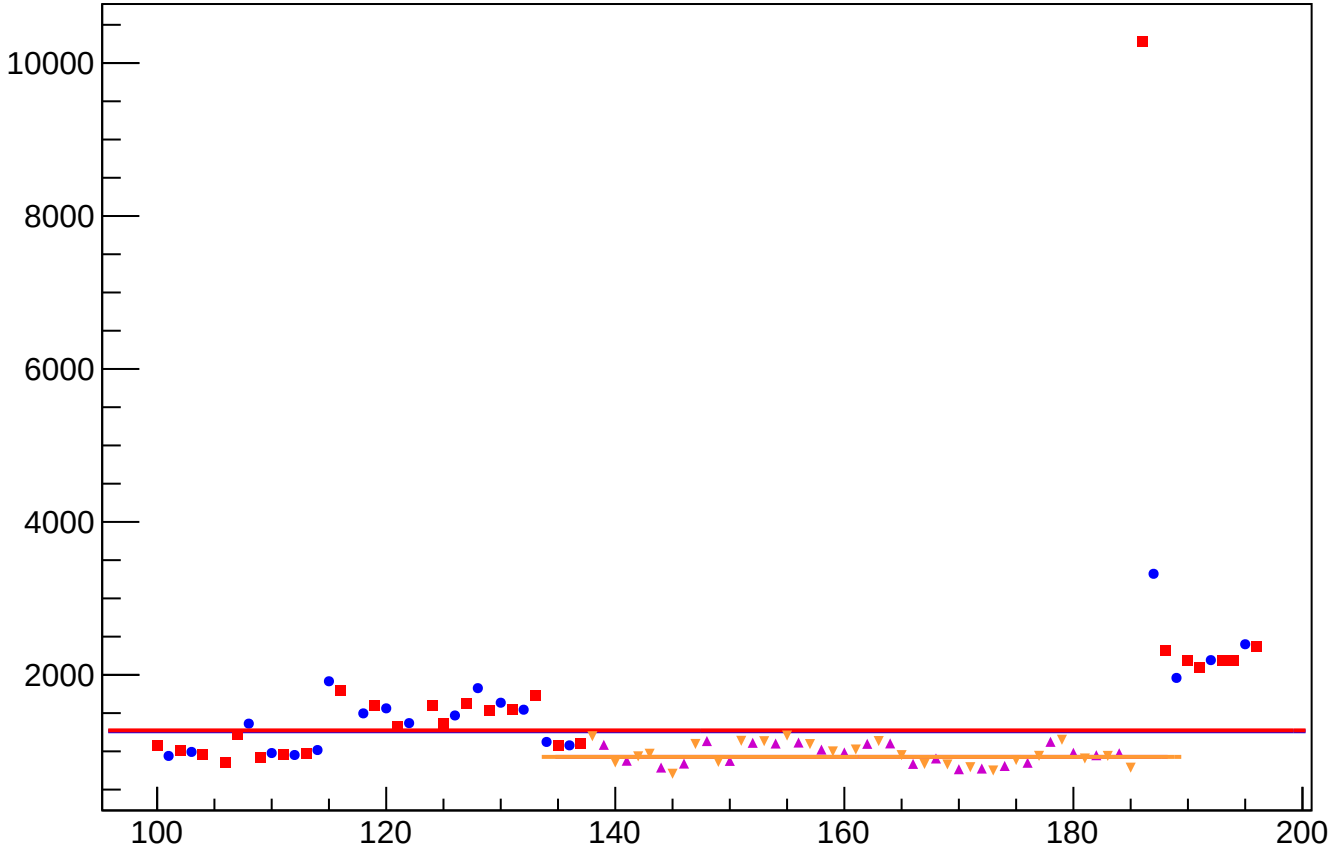
Right: -388.758+/-290.523 $\chi^2$/NDF: 51.0/45

In: 177.206+/-194.925 $\chi^2$/NDF:49.2/42

Out: 719.732+/-188.329 $\chi^2$/NDF:95.7/50

All: 457.804+/-135.441 $\chi^2$/NDF: 148.9/93

# asym_sam_48_dd_rms vs Slug, Sign Corrected




Right In: 1262.945+/-0.301 $\chi^2$/NDF: 1783353.0/19

Left Out: 927.610+/-0.151 $\chi^2$/NDF:875127.3/24

Right Out: 1273.855+/-0.281 $\chi^2$/NDF: 3130824.2/25

Left In: 927.321+/-0.155 $\chi^2$/NDF:656539.8/22

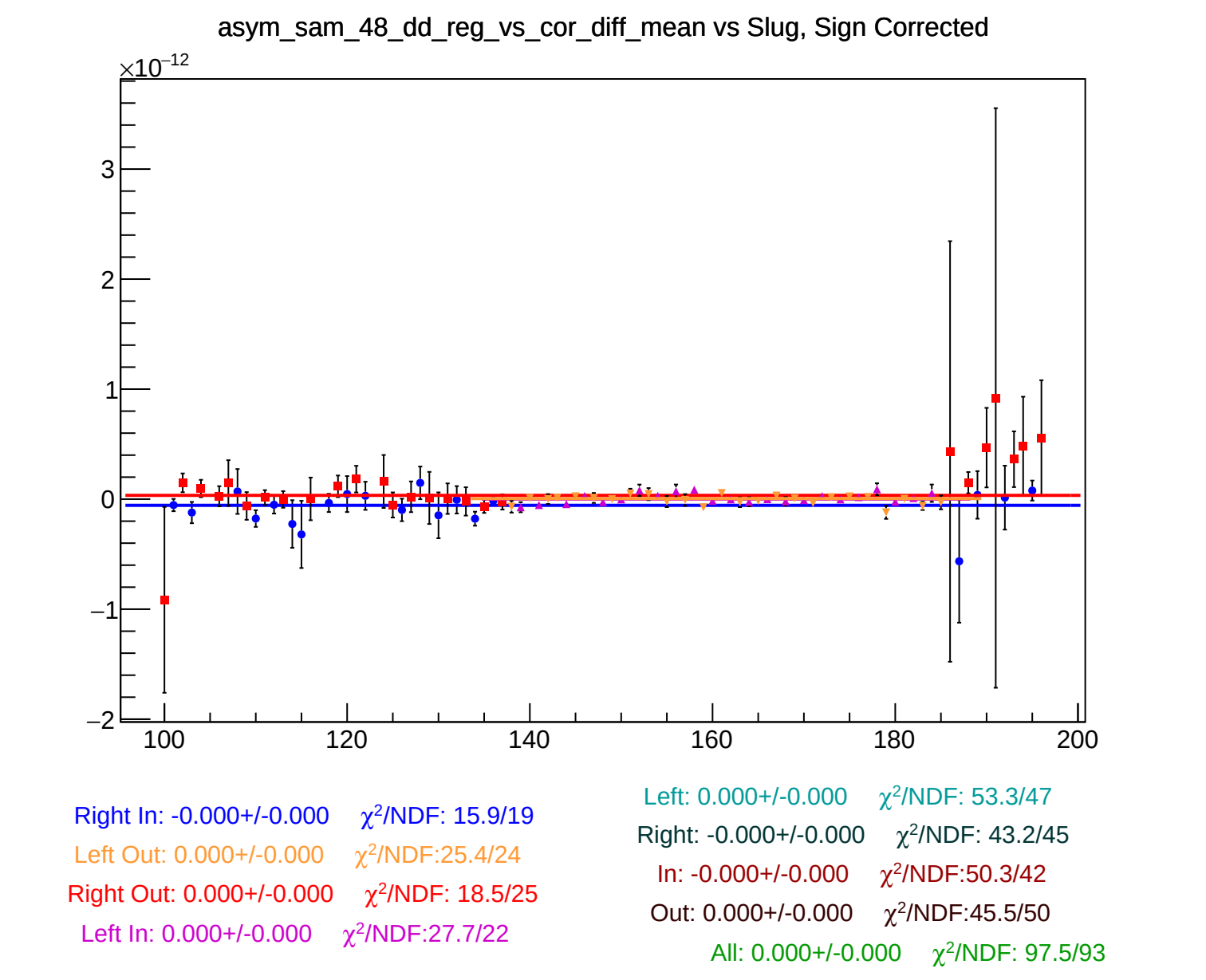
Left: 927.469+/-0.108 $\chi^2$/NDF: 1531668.9/47

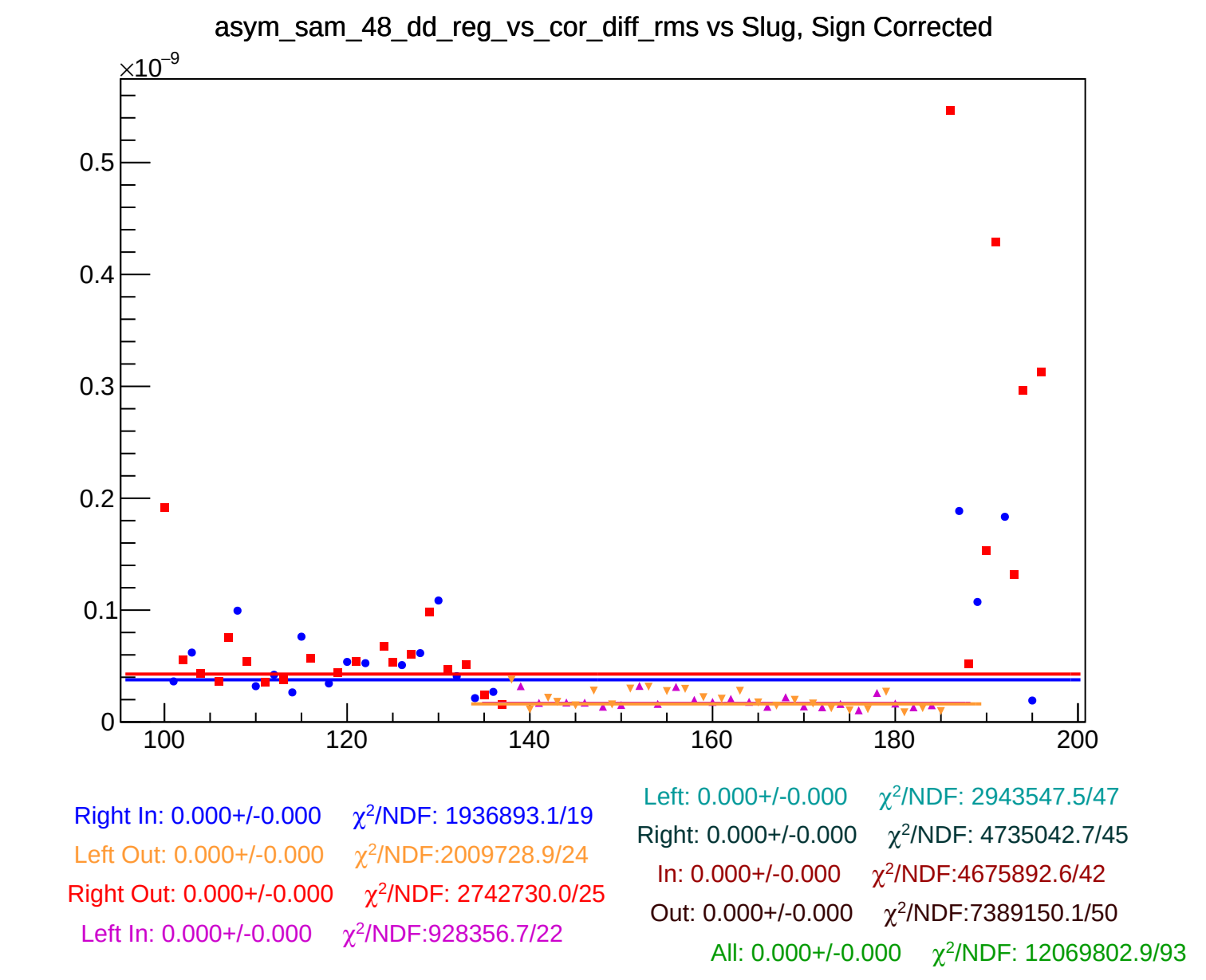
Right: 1268.771+/-0.205 $\chi^2$/NDF: 4914879.1/45

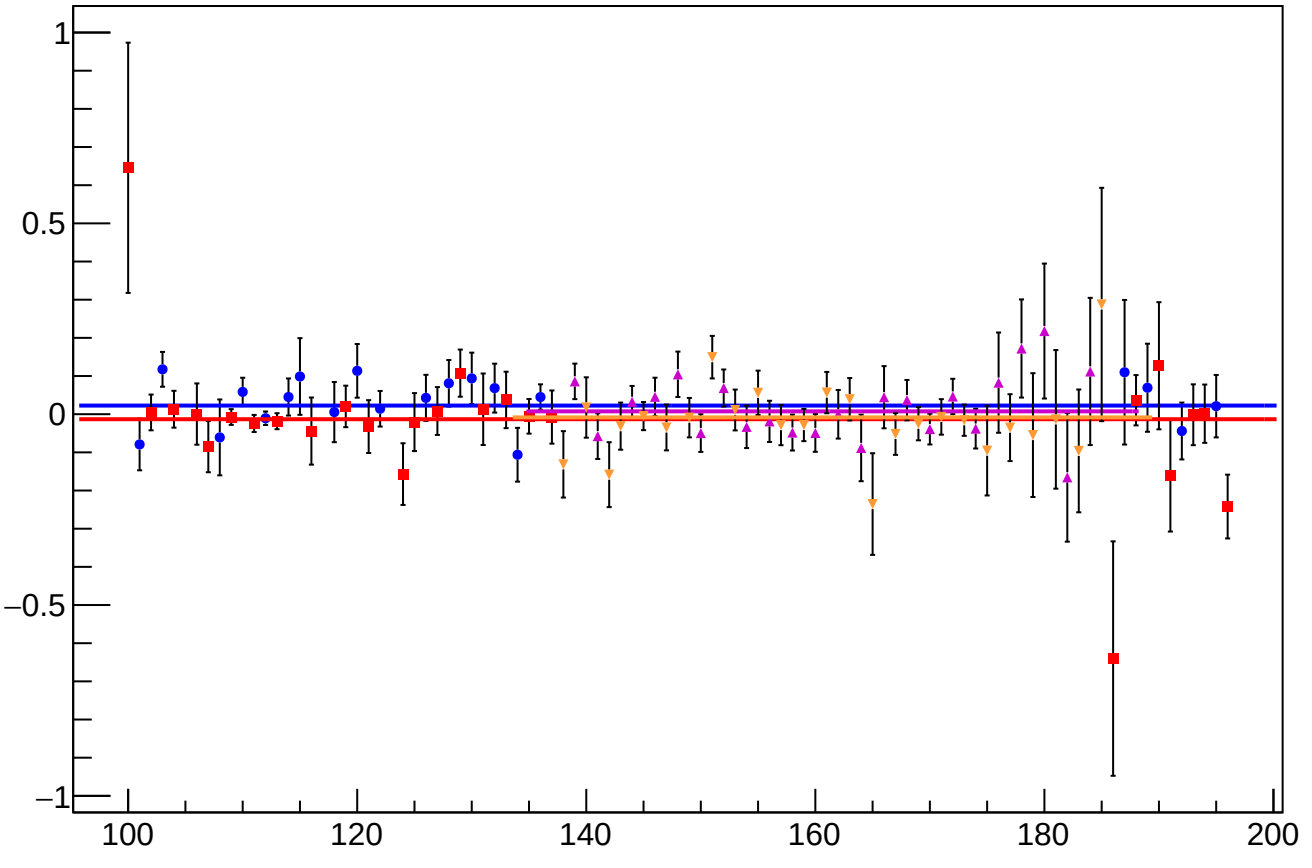
In: 997.729+/-0.138 $\chi^2$/NDF:3422811.5/42

Out: 1005.304+/-0.133 $\chi^2$/NDF:5182506.2/50

All: 1001.647+/-0.096 $\chi^2$/NDF: 8606879.7/93


asym_sam_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 15.9/19
Left Out: 0.000+/-0.000 χ²/NDF:25.4/24
Right Out: 0.000+/-0.000 χ²/NDF: 18.5/25
Left In: 0.000+/-0.000 χ²/NDF:27.7/22
Left: 0.000+/-0.000 χ²/NDF: 53.3/47
Right: -0.000+/-0.000 χ²/NDF: 43.2/45
In: -0.000+/-0.000 χ²/NDF:50.3/42
Out: 0.000+/-0.000 χ²/NDF:45.5/50
All: 0.000+/-0.000 χ²/NDF: 97.5/93


asym_sam_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 1936893.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2009728.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 2742730.0/25
Left In: 0.000+/-0.000 χ²/NDF:928356.7/22
Left: 0.000+/-0.000 χ²/NDF: 2943547.5/47
Right: 0.000+/-0.000 χ²/NDF: 4735042.7/45
In: 0.000+/-0.000 χ²/NDF:4675892.6/42
Out: 0.000+/-0.000 χ²/NDF:7389150.1/50
All: 0.000+/-0.000 χ²/NDF: 12069802.9/93




Right In: 0.023+/-0.011 $\chi^2$/NDF: 21.9/19

Left Out: -0.008+/-0.012 $\chi^2$/NDF:23.2/24

Right Out: -0.013+/-0.009 $\chi^2$/NDF: 28.3/25

Left In: 0.007+/-0.012 $\chi^2$/NDF:23.2/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 47.3/47

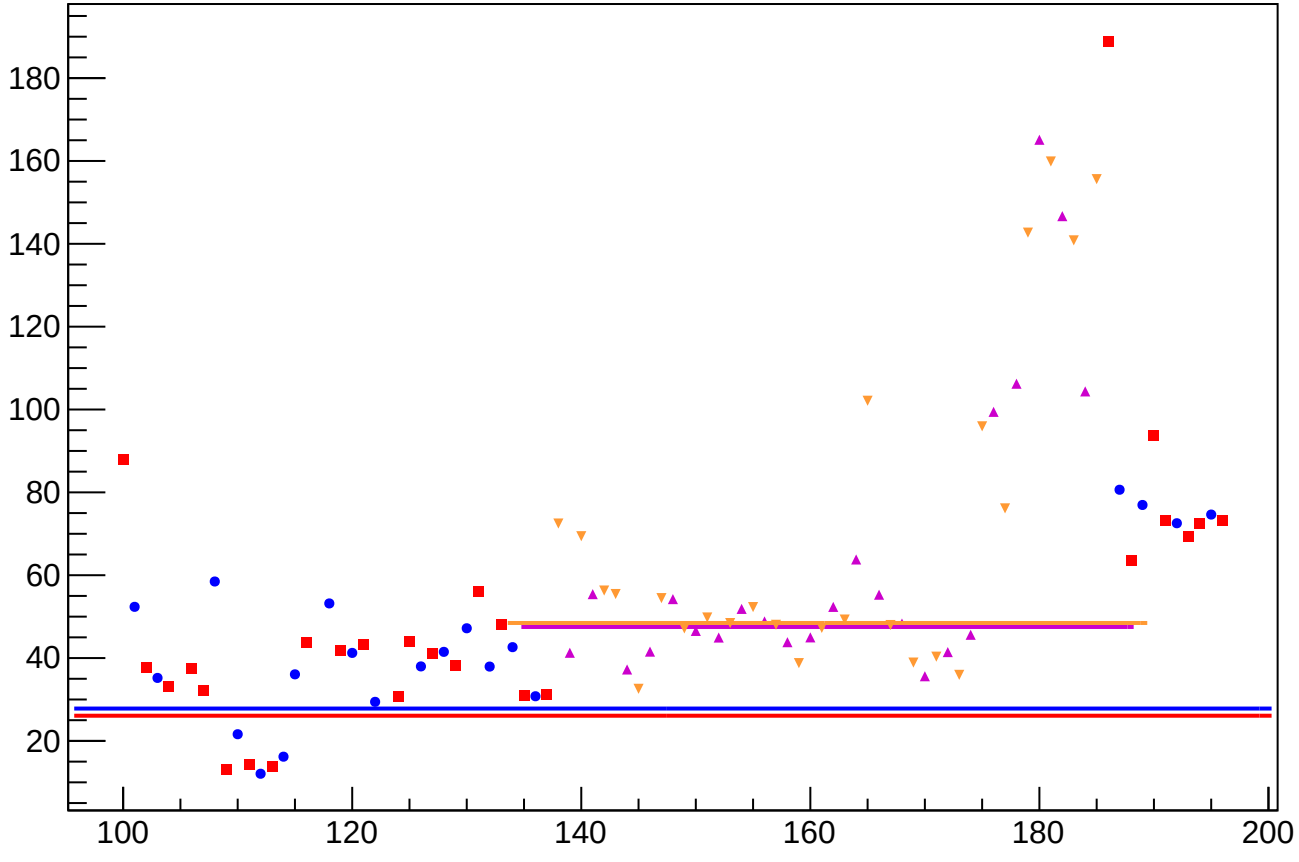
Right: 0.002+/-0.007 $\chi^2$/NDF: 56.5/45

In: 0.016+/-0.008 $\chi^2$/NDF:46.0/42

Out: -0.011+/-0.007 $\chi^2$/NDF:51.6/50

All: 0.001+/-0.005 $\chi^2$/NDF: 103.8/93

asym_sam_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.812+/-0.008 $\chi^2$/NDF: 4921189.2/19

Left Out: 48.471+/-0.008 $\chi^2$/NDF:4373812.0/24

Right Out: 26.083+/-0.007 $\chi^2$/NDF: 7110543.3/25

Left In: 47.505+/-0.009 $\chi^2$/NDF:3075161.5/22

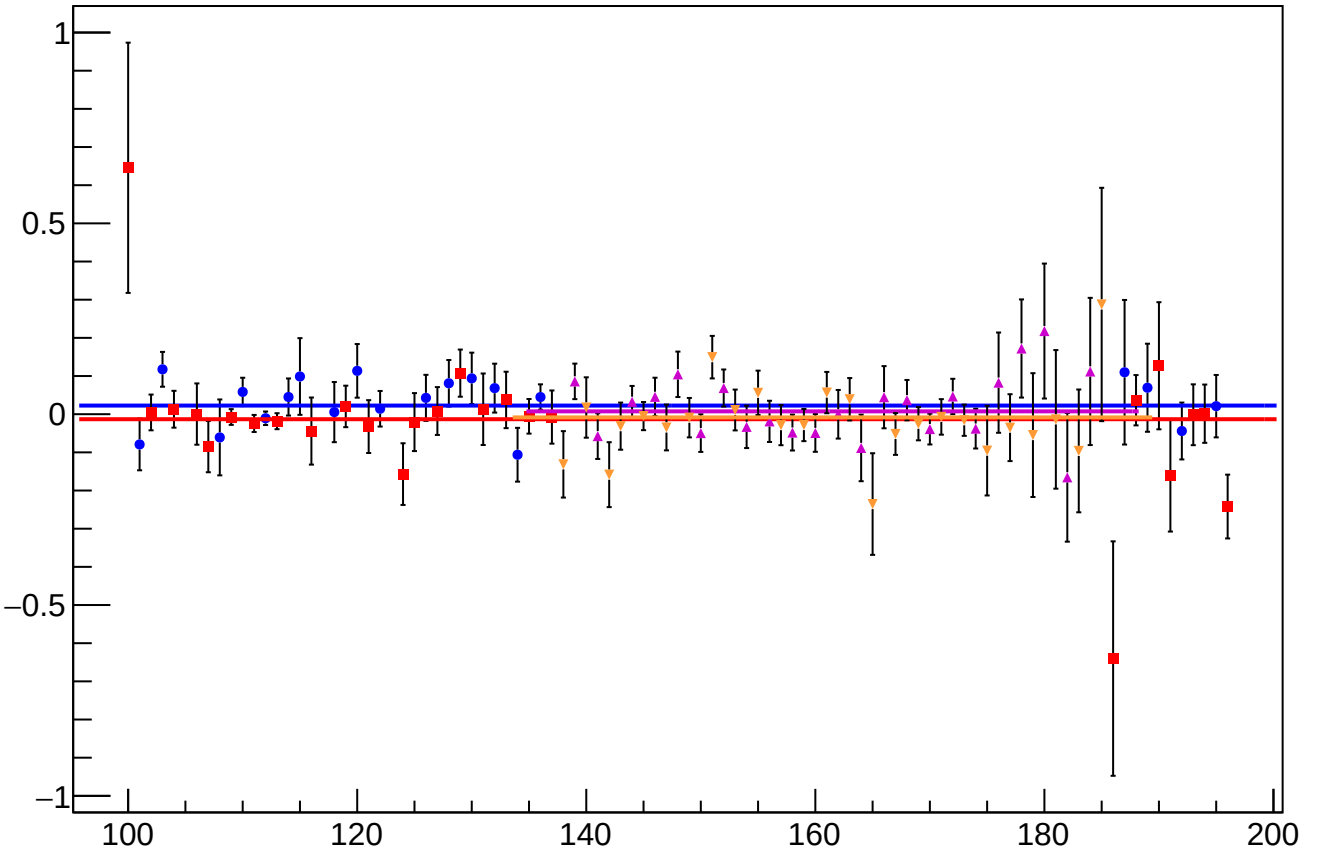
Left: 47.989+/-0.006 $\chi^2$/NDF: 7455439.1/47

Right: 26.834+/-0.005 $\chi^2$/NDF: 12060845.3/45

In: 36.587+/-0.006 $\chi^2$/NDF:10966610.9/42

Out: 34.643+/-0.005 $\chi^2$/NDF:15779101.6/50

All: 35.539+/-0.004 $\chi^2$/NDF: 26808890.6/93




Right In: 0.023+/-0.011 $\chi^2$/NDF: 21.9/19

Left Out: -0.008+/-0.012 $\chi^2$/NDF:23.2/24

Right Out: -0.013+/-0.009 $\chi^2$/NDF: 28.3/25

Left In: 0.007+/-0.012 $\chi^2$/NDF:23.2/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 47.3/47

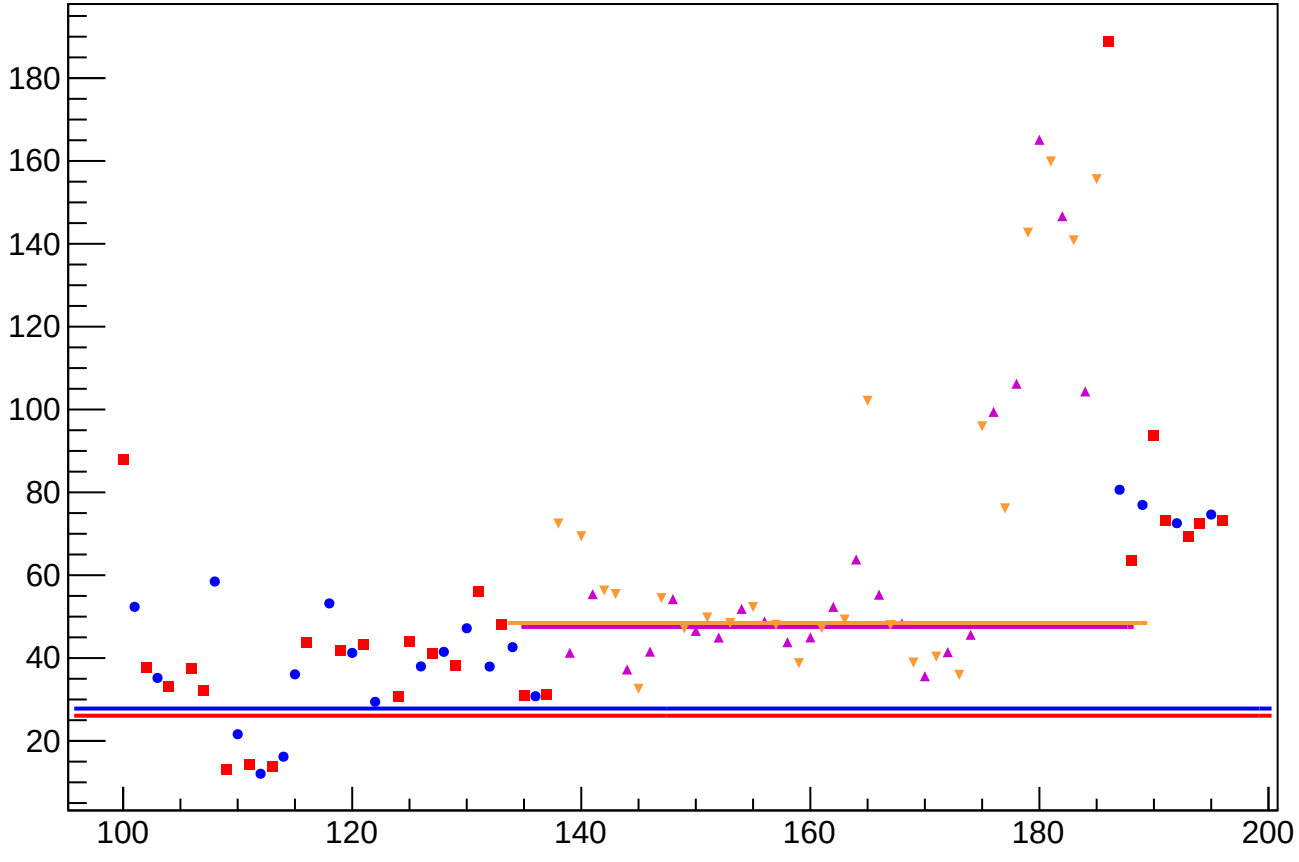
Right: 0.002+/-0.007 $\chi^2$/NDF: 56.5/45

In: 0.016+/-0.008 $\chi^2$/NDF:46.0/42

Out: -0.011+/-0.007 $\chi^2$/NDF:51.6/50

All: 0.001+/-0.005 $\chi^2$/NDF: 103.8/93

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.812+/-0.008 $\chi^2$/NDF: 4921189.2/19

Left Out: 48.471+/-0.008 $\chi^2$/NDF:4373812.0/24

Right Out: 26.083+/-0.007 $\chi^2$/NDF: 7110543.3/25

Left In: 47.505+/-0.009 $\chi^2$/NDF:3075161.5/22

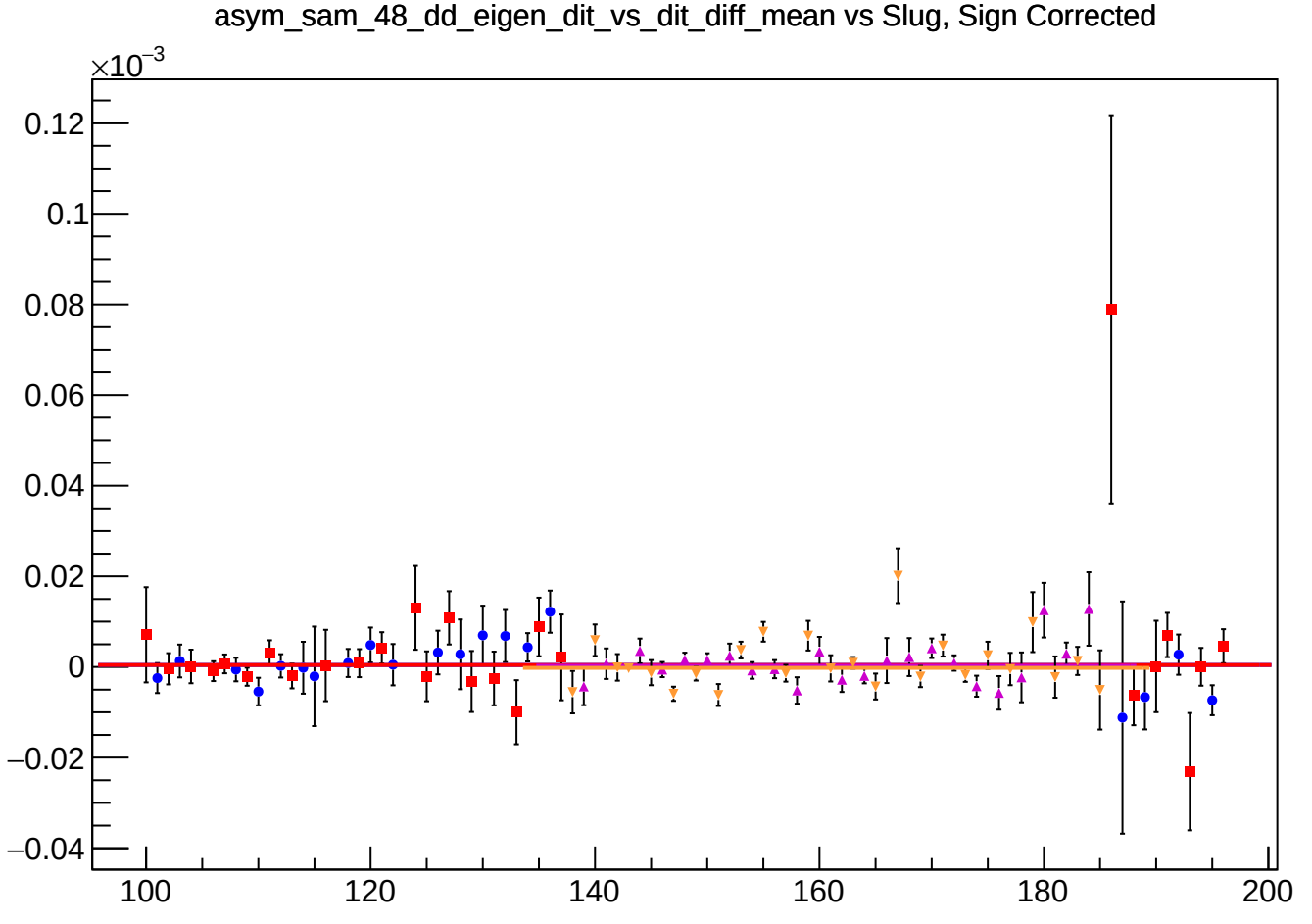
Left: 47.989+/-0.006 $\chi^2$/NDF: 7455439.1/47

Right: 26.834+/-0.005 $\chi^2$/NDF: 12060845.3/45

In: 36.587+/-0.006 $\chi^2$/NDF:10966610.9/42

Out: 34.643+/-0.005 $\chi^2$/NDF:15779101.6/50

All: 35.539+/-0.004 $\chi^2$/NDF: 26808890.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:71.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:30.9/22

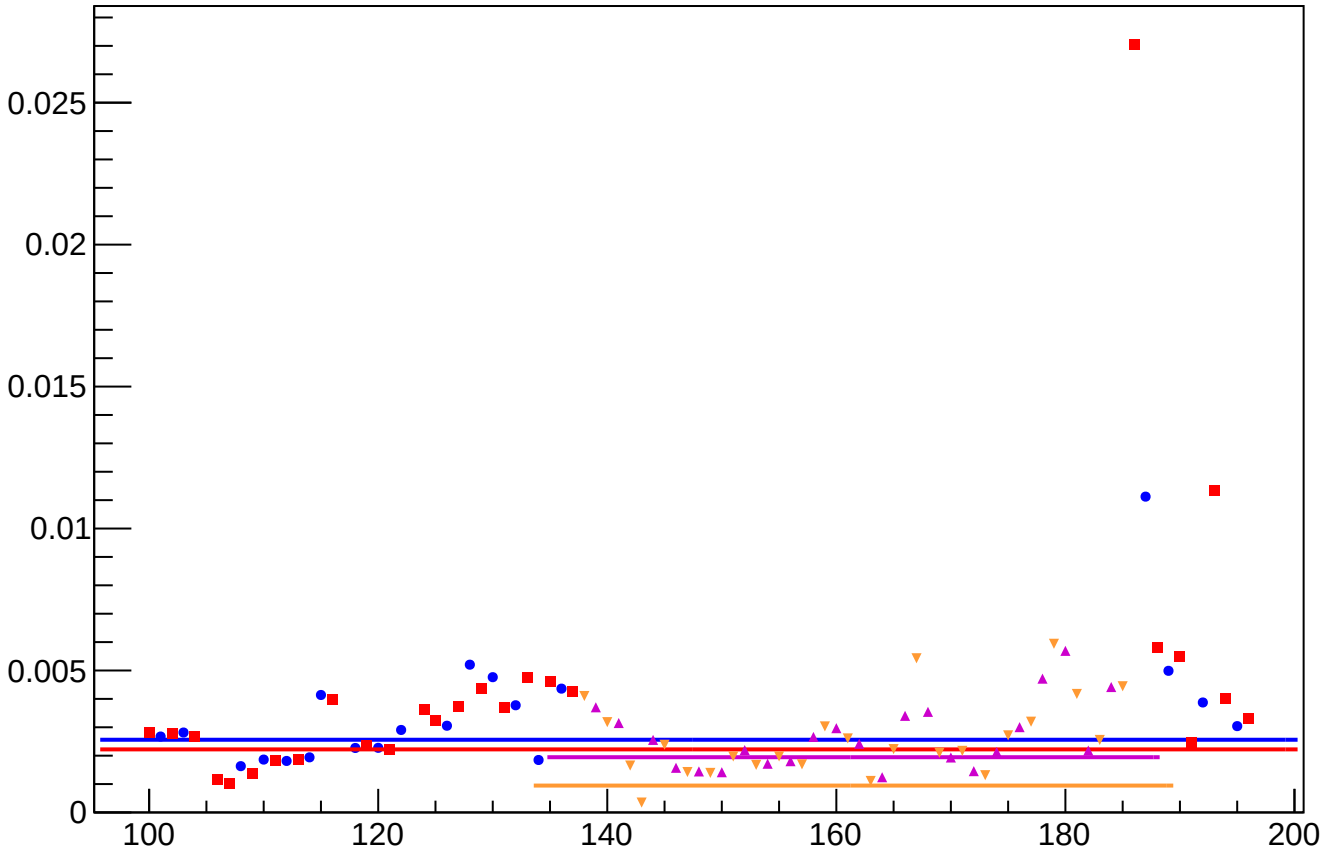
Left: -0.000+/-0.000 $\chi^2$/NDF: 103.2/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 49.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:54.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:98.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 153.5/93




Right In: 0.003+/-0.000 $\chi^2$/NDF: 2296781.4/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:17608951.7/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5947708.8/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:4362371.5/22

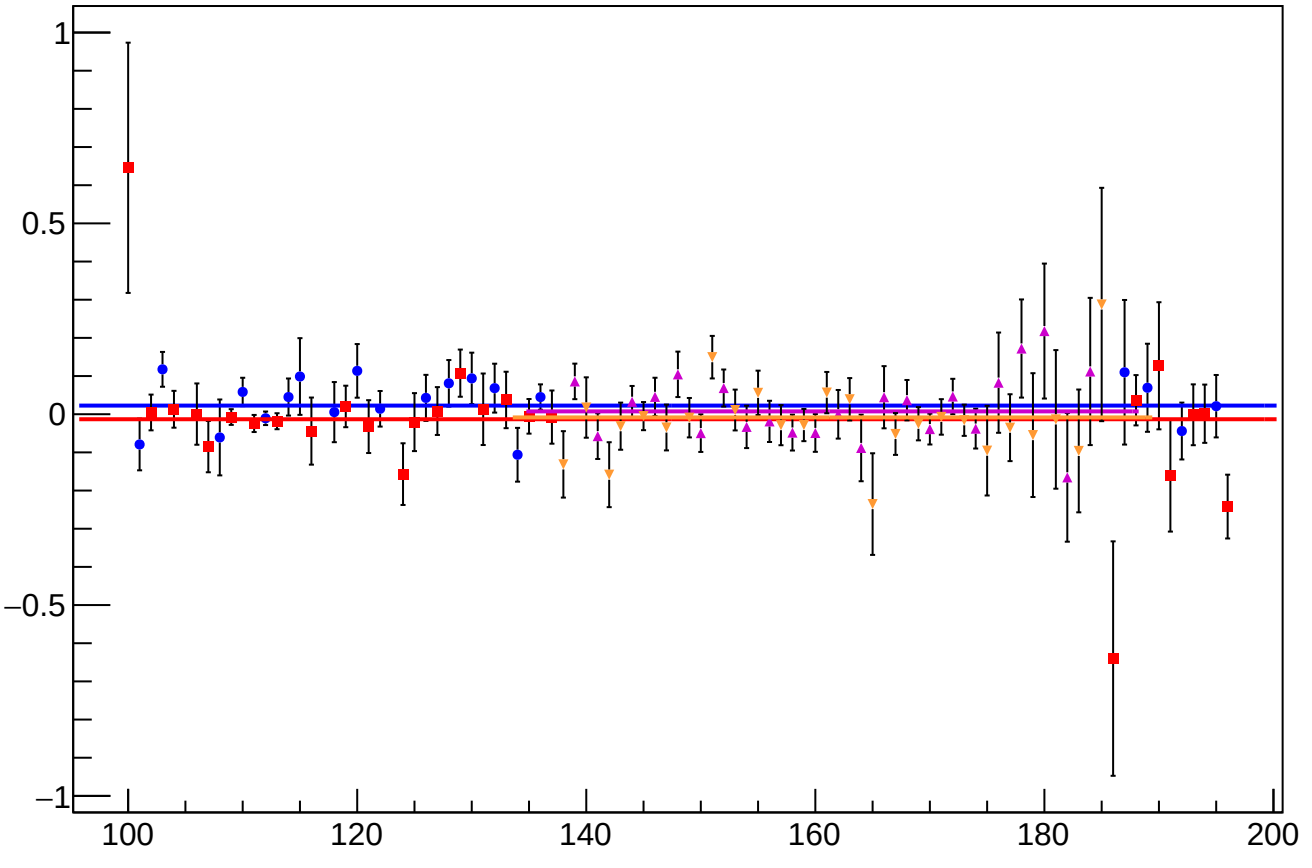
Left: 0.001+/-0.000 $\chi^2$/NDF: 27882769.2/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 8412445.6/45

In: 0.002+/-0.000 $\chi^2$/NDF:7386454.5/42

Out: 0.001+/-0.000 $\chi^2$/NDF:28398999.5/50

All: 0.001+/-0.000 $\chi^2$/NDF: 42878156.3/93




Right In: 0.023+/-0.011 $\chi^2$/NDF: 21.9/19

Left Out: -0.008+/-0.012 $\chi^2$/NDF:23.2/24

Right Out: -0.013+/-0.009 $\chi^2$/NDF: 28.3/25

Left In: 0.007+/-0.012 $\chi^2$/NDF:23.2/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 47.3/47

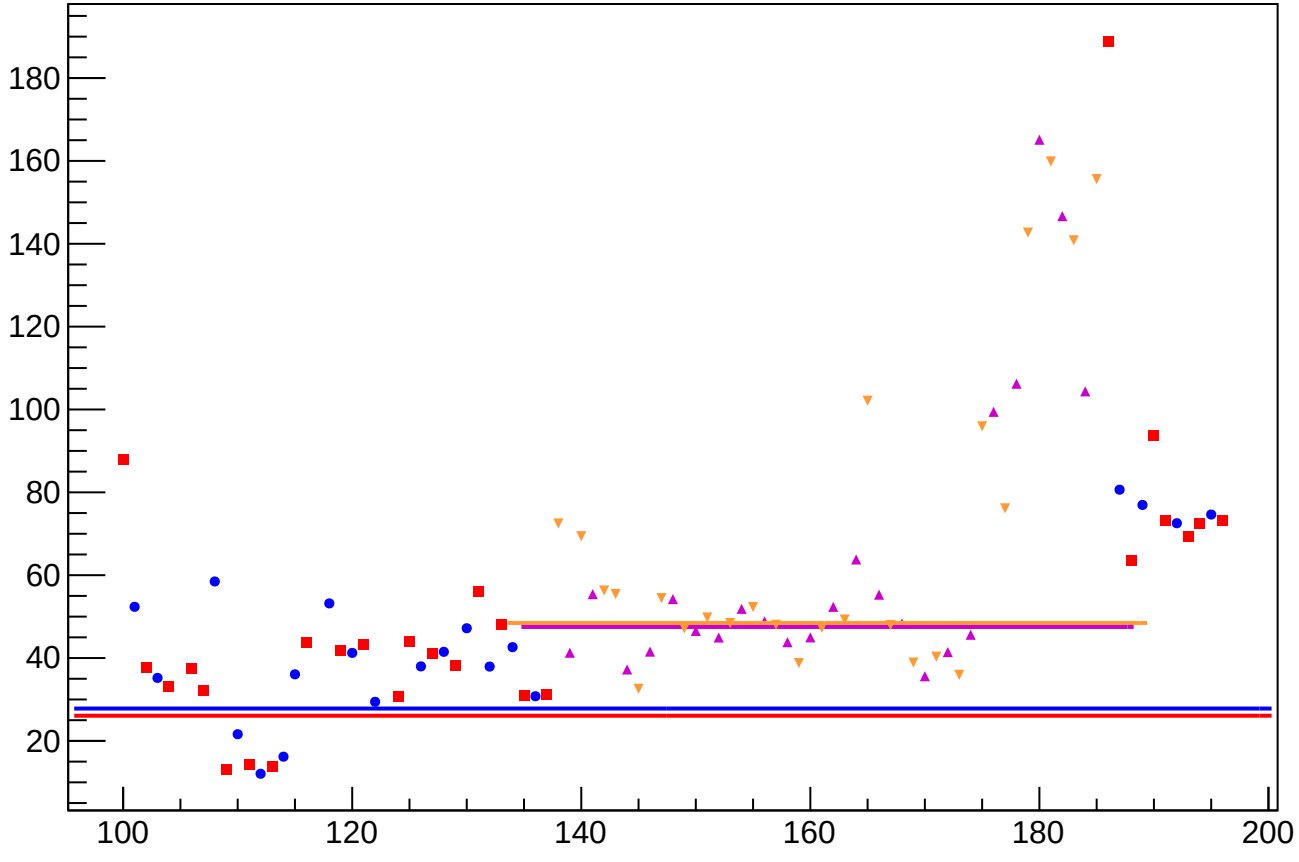
Right: 0.002+/-0.007 $\chi^2$/NDF: 56.5/45

In: 0.016+/-0.008 $\chi^2$/NDF:46.0/42

Out: -0.011+/-0.007 $\chi^2$/NDF:51.6/50

All: 0.001+/-0.005 $\chi^2$/NDF: 103.8/93

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.811+/-0.008 $\chi^2$/NDF: 4921703.5/19

Left Out: 48.471+/-0.008 $\chi^2$/NDF:4373775.4/24

Right Out: 26.082+/-0.007 $\chi^2$/NDF: 7110731.6/25

Left In: 47.505+/-0.009 $\chi^2$/NDF:3075116.0/22

Left: 47.989+/-0.006 $\chi^2$/NDF: 7455357.0/47

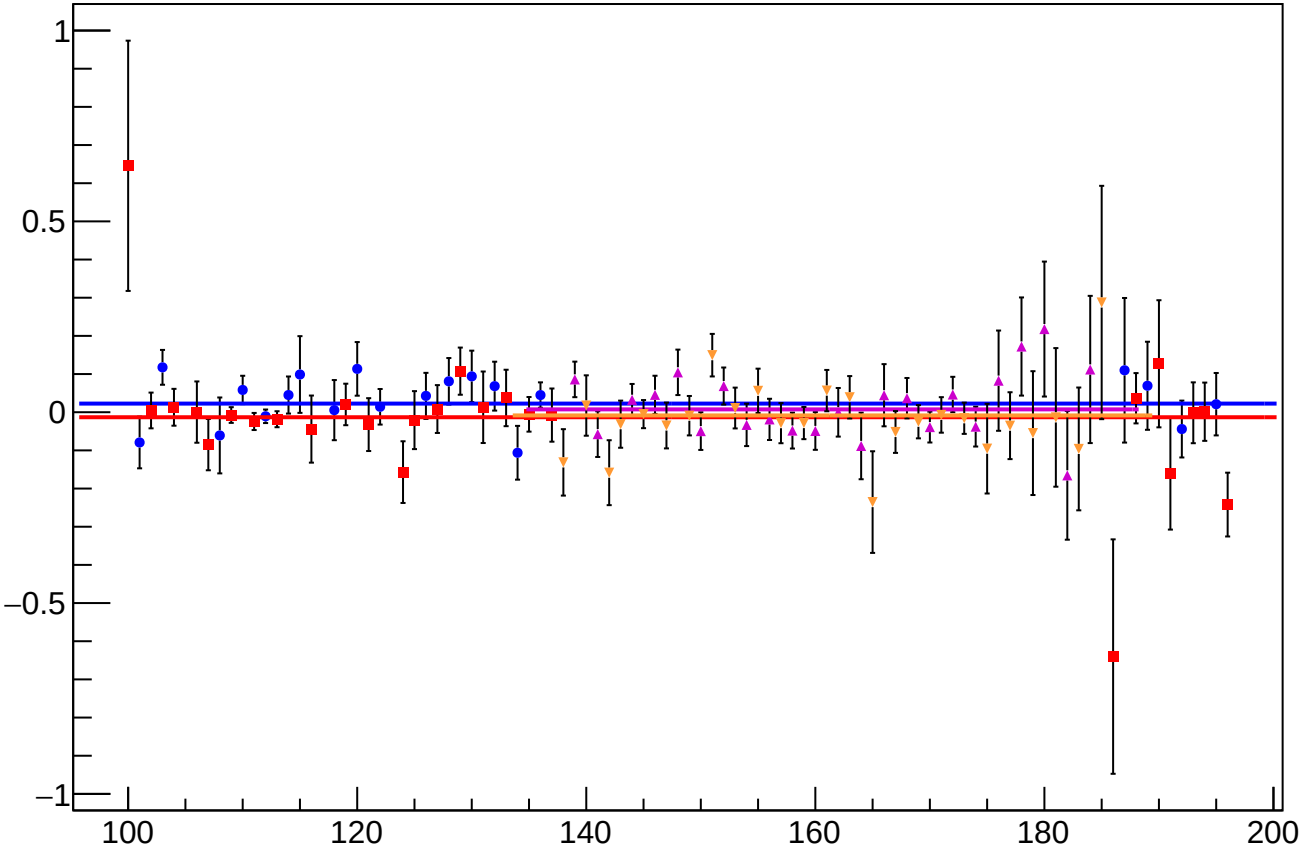
Right: 26.833+/-0.005 $\chi^2$/NDF: 12061513.8/45

In: 36.586+/-0.006 $\chi^2$/NDF:10967641.3/42

Out: 34.643+/-0.005 $\chi^2$/NDF:15779484.1/50

All: 35.538+/-0.004 $\chi^2$/NDF: 26810256.2/93

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.023+/-0.011 $\chi^2$/NDF: 21.9/19

Left Out: -0.008+/-0.012 $\chi^2$/NDF:23.2/24

Right Out: -0.013+/-0.009 $\chi^2$/NDF: 28.3/25

Left In: 0.007+/-0.012 $\chi^2$/NDF:23.2/22

Left: -0.000+/-0.008 $\chi^2$/NDF: 47.3/47

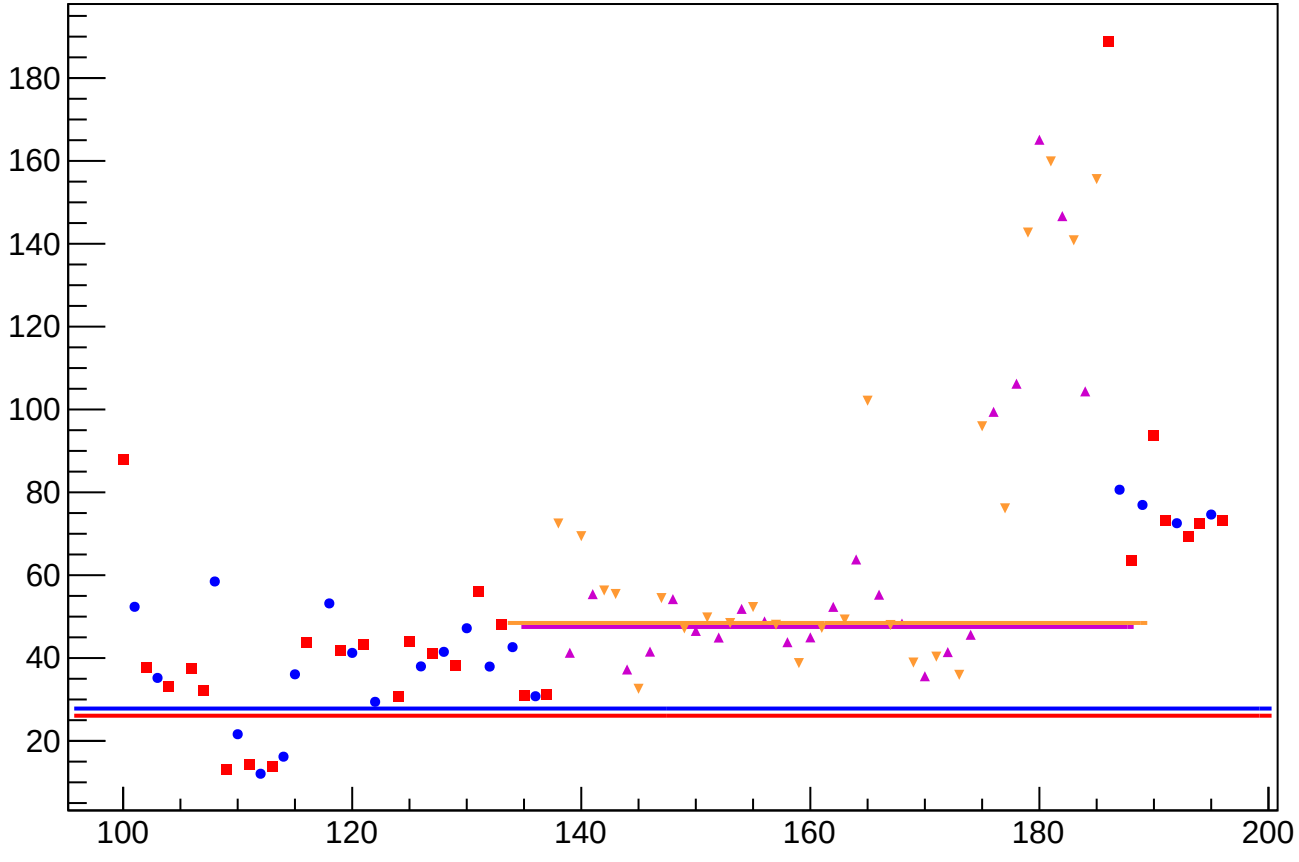
Right: 0.002+/-0.007 $\chi^2$/NDF: 56.5/45

In: 0.016+/-0.008 $\chi^2$/NDF:46.0/42

Out: -0.011+/-0.007 $\chi^2$/NDF:51.6/50

All: 0.001+/-0.005 $\chi^2$/NDF: 103.8/93

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.811+/-0.008 $\chi^2$/NDF: 4921703.5/19

Left Out: 48.471+/-0.008 $\chi^2$/NDF:4373775.4/24

Right Out: 26.082+/-0.007 $\chi^2$/NDF: 7110731.6/25

Left In: 47.505+/-0.009 $\chi^2$/NDF:3075116.0/22

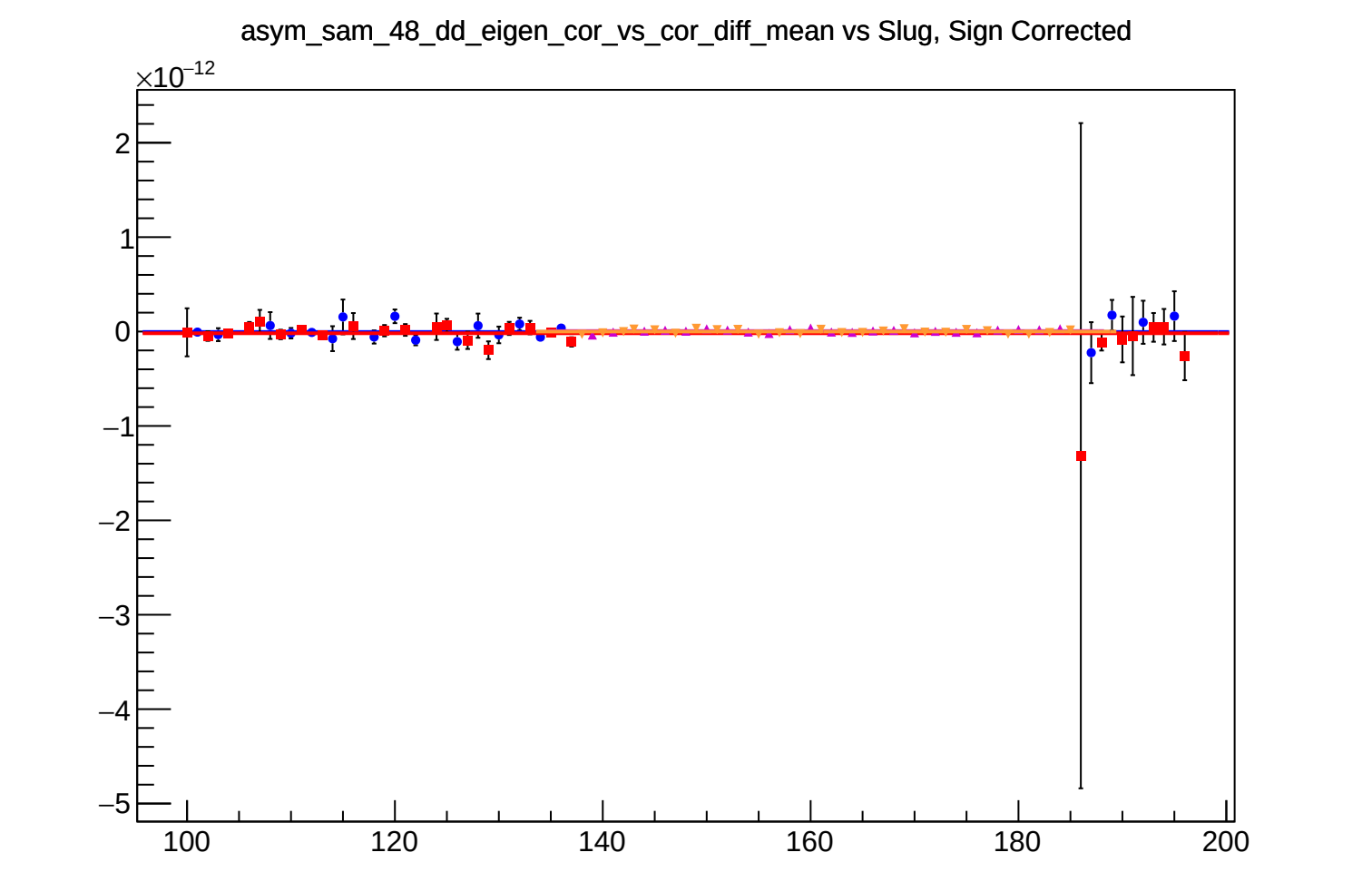
Left: 47.989+/-0.006 $\chi^2$/NDF: 7455357.0/47

Right: 26.833+/-0.005 $\chi^2$/NDF: 12061513.8/45

In: 36.586+/-0.006 $\chi^2$/NDF:10967641.3/42

Out: 34.643+/-0.005 $\chi^2$/NDF:15779484.1/50

All: 35.538+/-0.004 $\chi^2$/NDF: 26810256.2/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:31.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.1/22

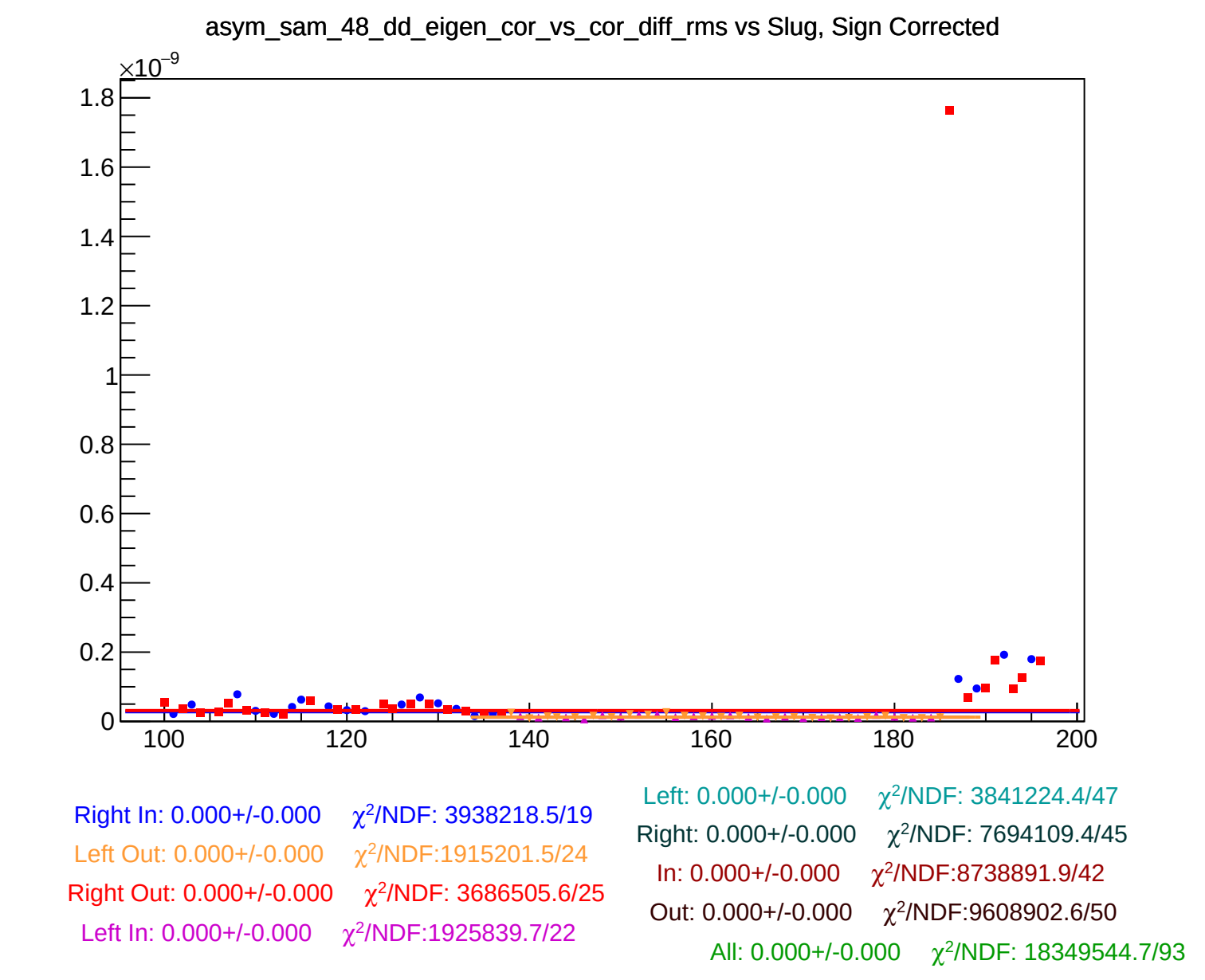
Left: 0.000+/-0.000 $\chi^2$/NDF: 51.7/47

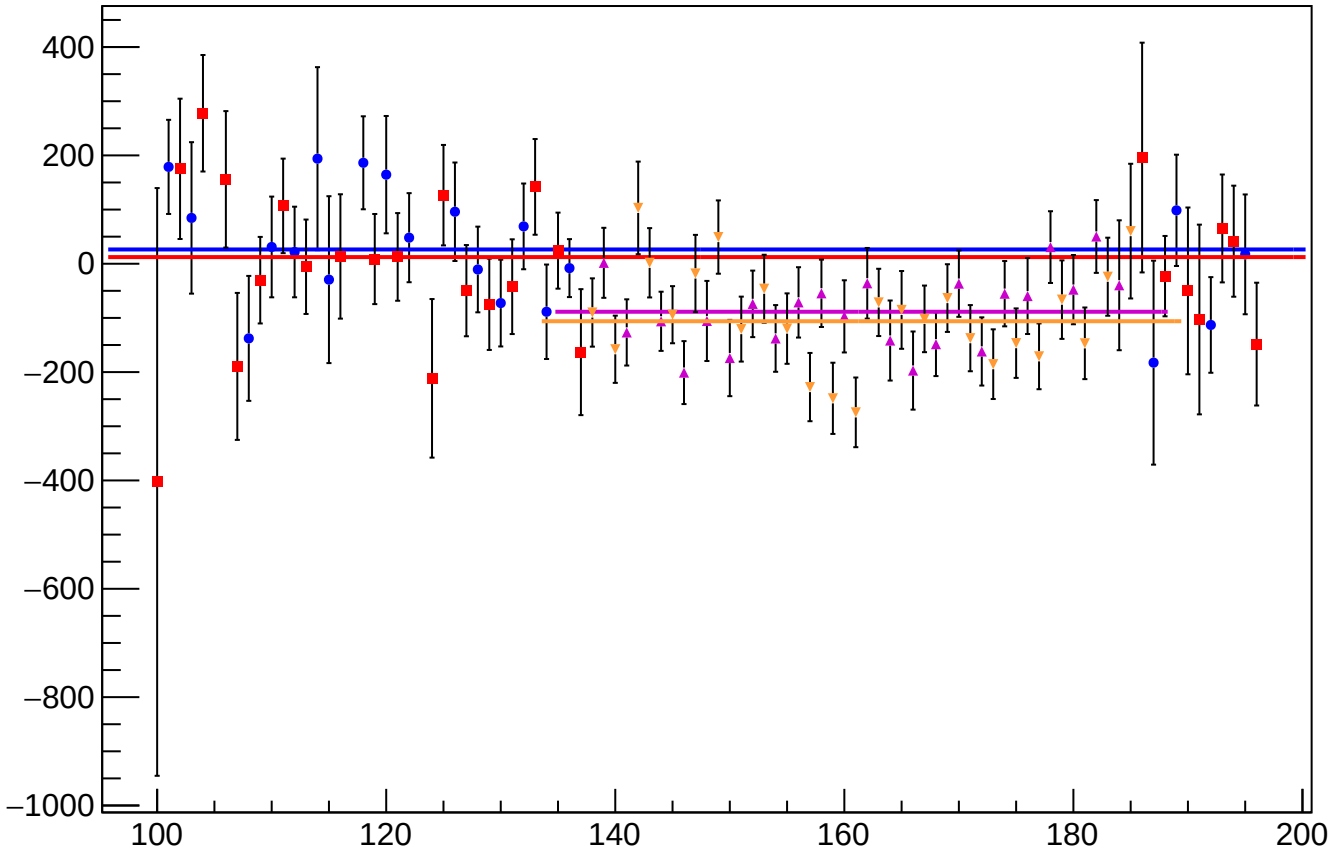
Right: -0.000+/-0.000 $\chi^2$/NDF: 39.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:40.8/42

Out: -0.000+/-0.000 $\chi^2$/NDF:50.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 93.1/93


asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3938218.5/19
Left Out: 0.000+/-0.000 χ²/NDF:1915201.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 3686505.6/25
Left In: 0.000+/-0.000 χ²/NDF:1925839.7/22
Left: 0.000+/-0.000 χ²/NDF: 3841224.4/47
Right: 0.000+/-0.000 χ²/NDF: 7694109.4/45
In: 0.000+/-0.000 χ²/NDF:8738891.9/42
Out: 0.000+/-0.000 χ²/NDF:9608902.6/50
All: 0.000+/-0.000 χ²/NDF: 18349544.7/93




Right In: 26.360+/-20.523 $\chi^2$/NDF: 20.6/19

Left Out: -106.100+/-13.089 $\chi^2$/NDF:40.7/24

Right Out: 12.282+/-19.636 $\chi^2$/NDF: 27.5/25

Left In: -88.619+/-13.566 $\chi^2$/NDF:23.9/22

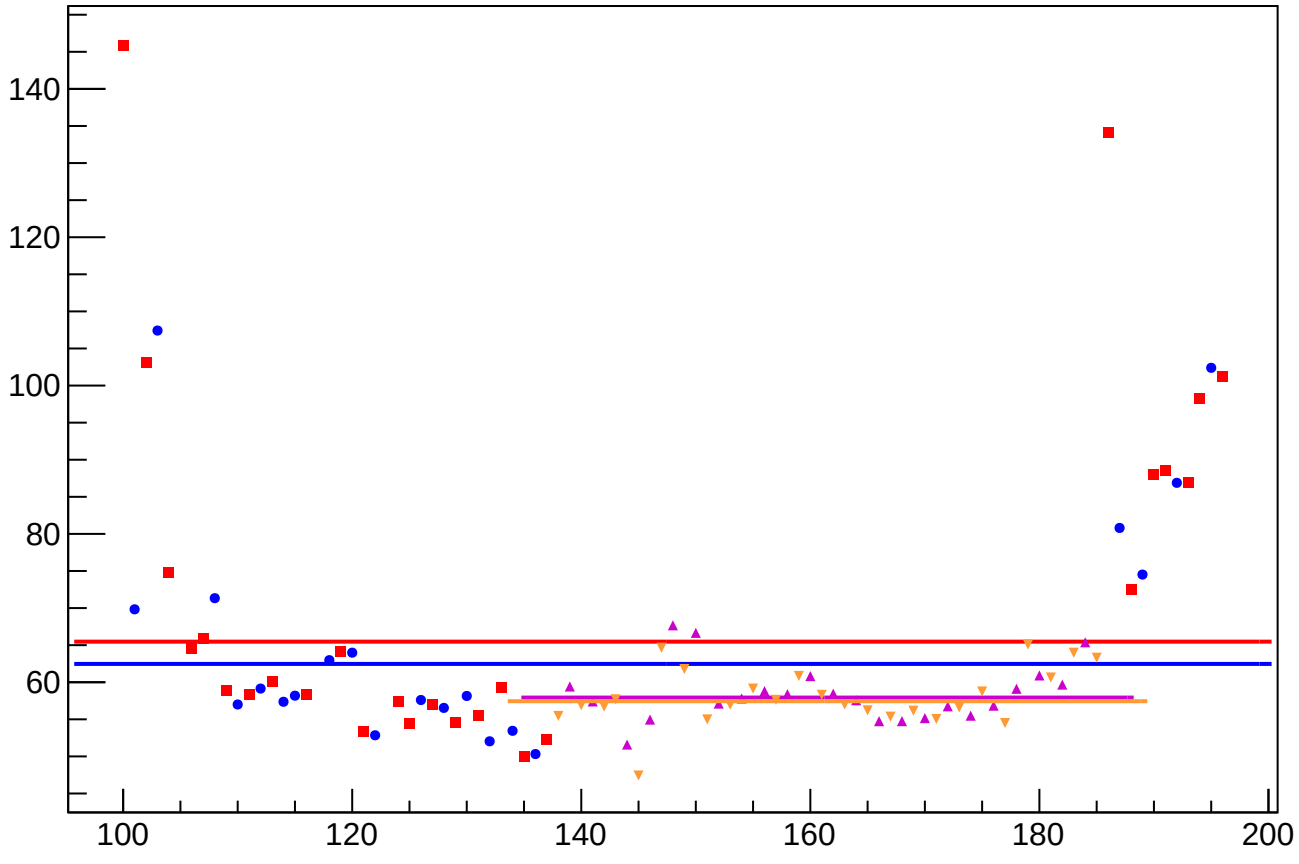
Left: -97.672+/-9.420 $\chi^2$/NDF: 65.4/47

Right: 19.010+/-14.188 $\chi^2$/NDF: 48.4/45

In: -53.656+/-11.317 $\chi^2$/NDF:66.3/42

Out: -69.682+/-10.891 $\chi^2$/NDF:93.4/50

All: -61.976+/-7.848 $\chi^2$/NDF: 160.7/93




Right In: 62.469+/-0.015 $\chi^2$/NDF: 916576.1/19

Left Out: 57.440+/-0.009 $\chi^2$/NDF:174555.9/24

Right Out: 65.473+/-0.014 $\chi^2$/NDF: 1364717.7/25

Left In: 57.933+/-0.010 $\chi^2$/NDF:135903.0/22

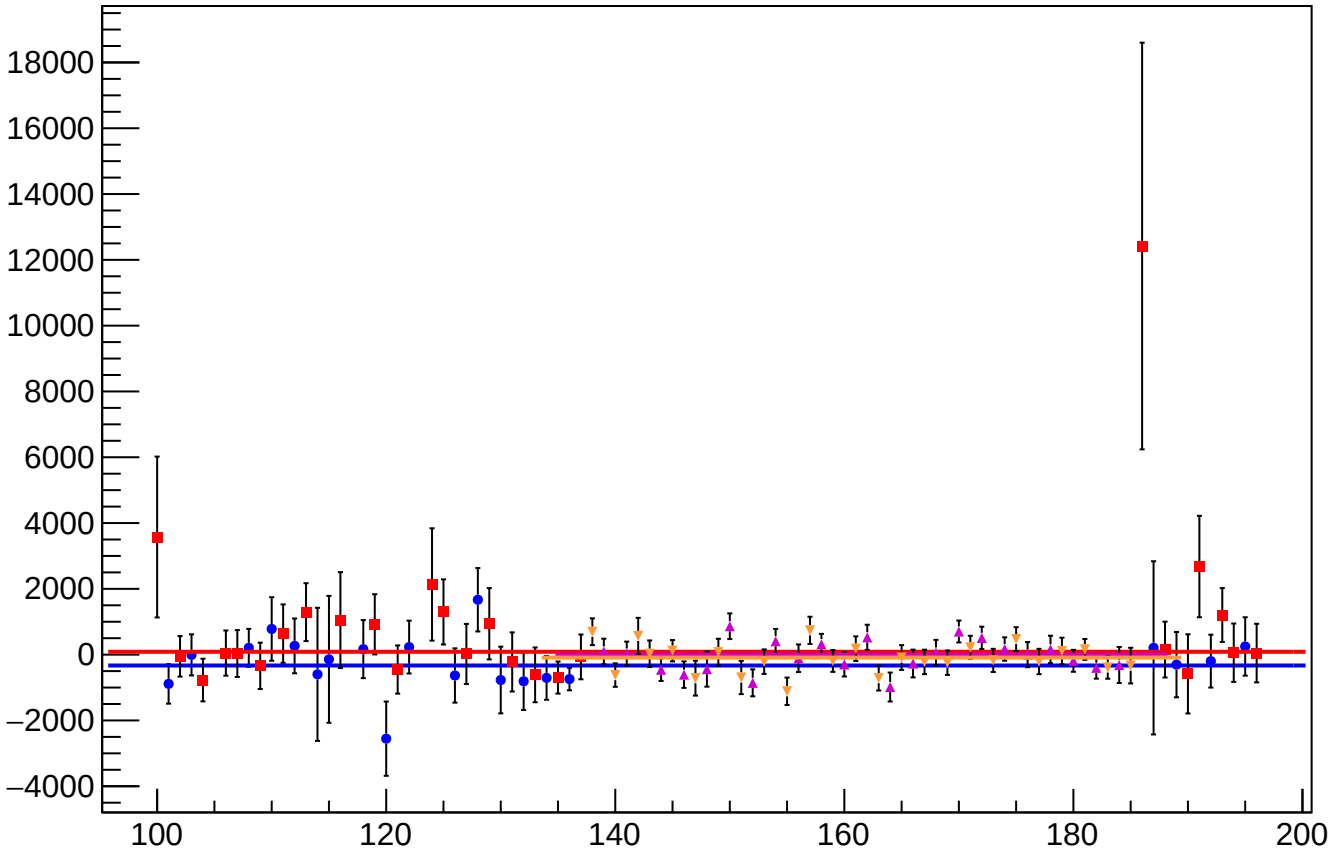
Left: 57.678+/-0.007 $\chi^2$/NDF: 311823.9/47

Right: 64.037+/-0.010 $\chi^2$/NDF: 2303650.8/45

In: 59.312+/-0.008 $\chi^2$/NDF:1120493.5/42

Out: 59.911+/-0.008 $\chi^2$/NDF:1770974.2/50

All: 59.623+/-0.006 $\chi^2$/NDF: 2894376.2/93




Right In: -329.998+/-169.923 $\chi^2$/NDF: 15.8/19

Left Out: -89.059+/-77.011 $\chi^2$/NDF:29.9/24

Right Out: 87.345+/-165.783 $\chi^2$/NDF: 24.3/25

Left In: -3.046+/-79.193 $\chi^2$/NDF:33.6/22

Left: -47.253+/-55.210 $\chi^2$/NDF: 64.1/47

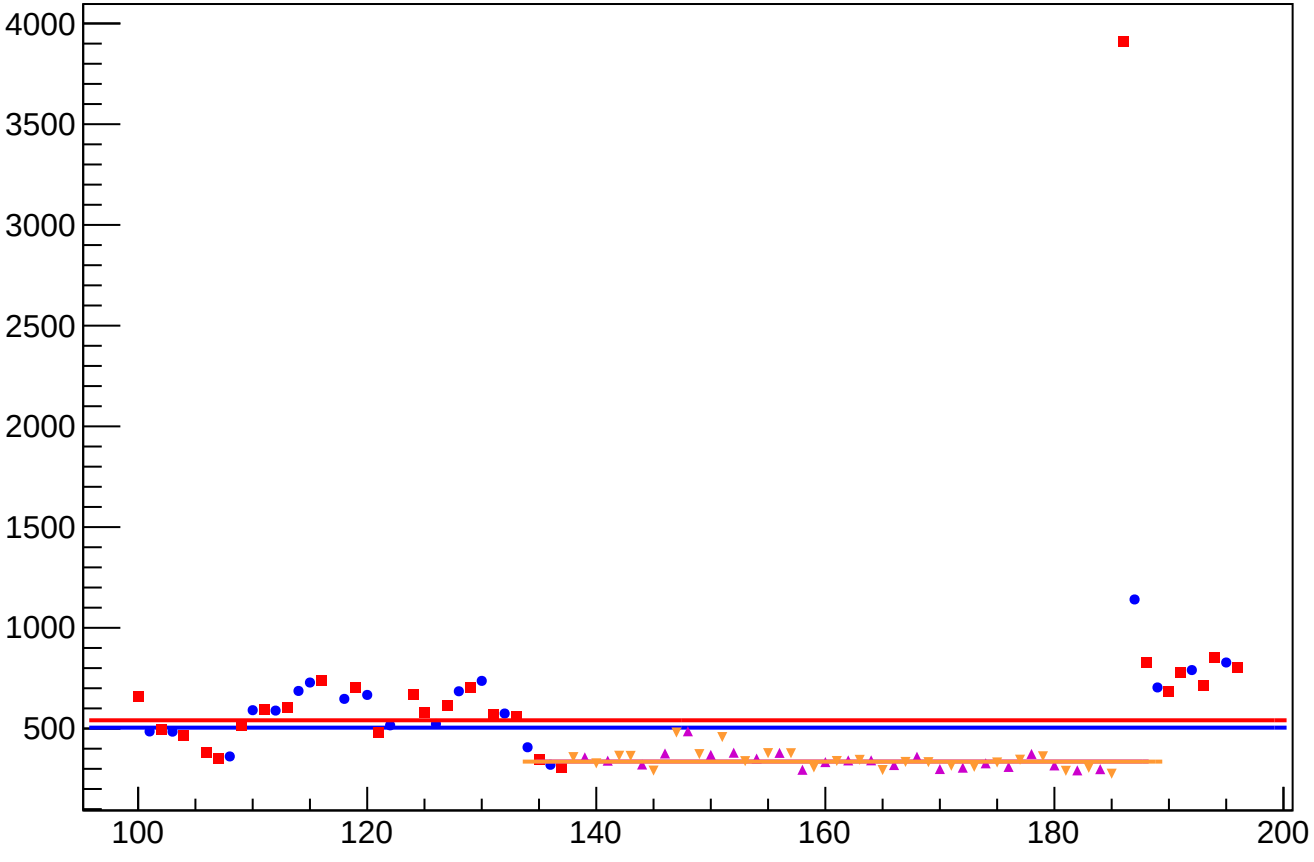
Right: -116.180+/-118.663 $\chi^2$/NDF: 43.1/45

In: -61.389+/-71.780 $\chi^2$/NDF:52.4/42

Out: -57.749+/-69.843 $\chi^2$/NDF:55.1/50

All: -59.519+/-50.057 $\chi^2$/NDF: 107.5/93

asym_sam_13_57_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 504.469+/-0.120 $\chi^2$/NDF: 1831860.9/19

Left Out: 335.894+/-0.054 $\chi^2$/NDF:533835.0/24

Right Out: 541.014+/-0.117 $\chi^2$/NDF: 2469099.1/25

Left In: 336.343+/-0.056 $\chi^2$/NDF:414202.1/22

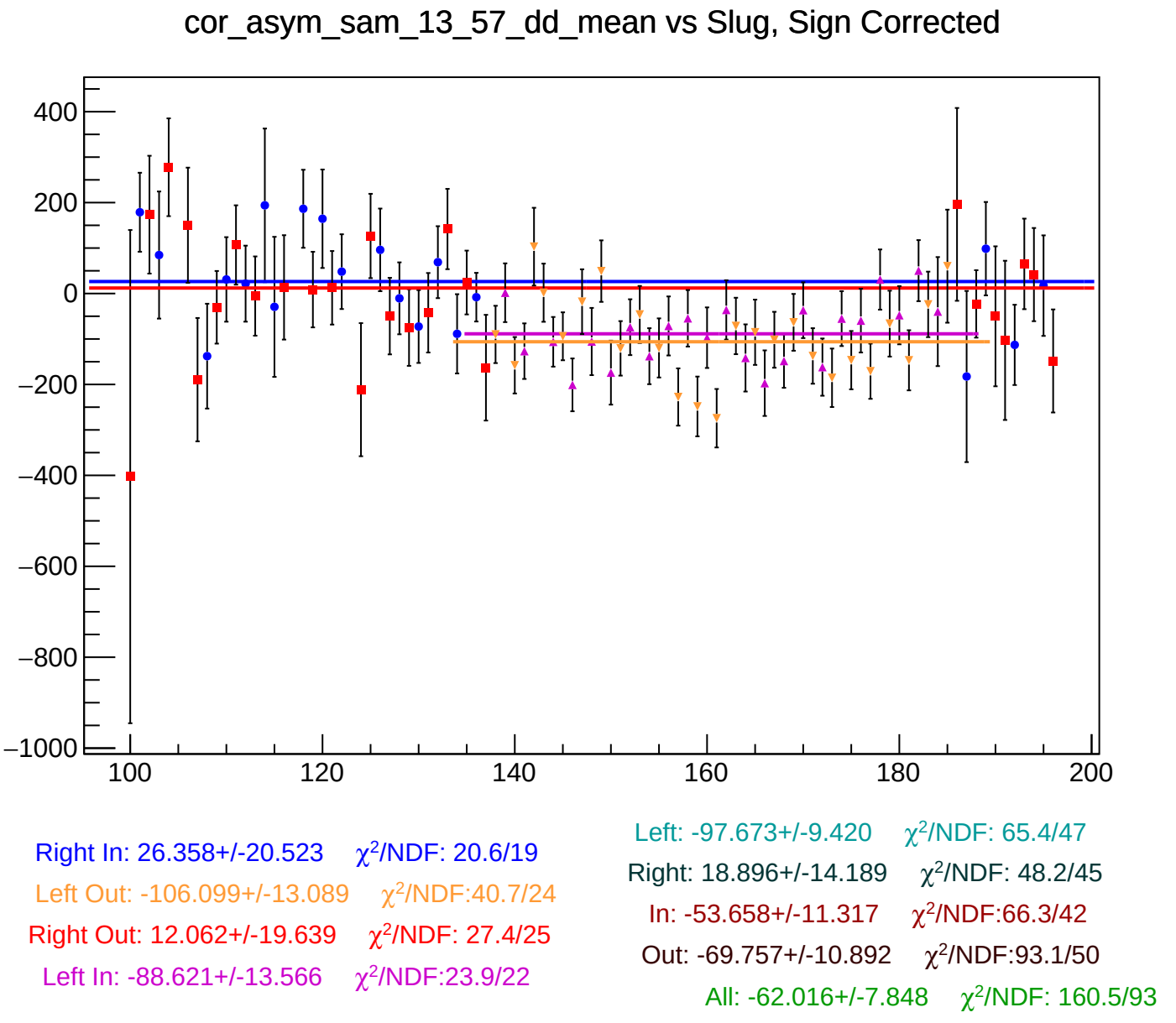
Left: 336.112+/-0.039 $\chi^2$/NDF: 948070.1/47

Right: 523.192+/-0.084 $\chi^2$/NDF: 4348354.9/45

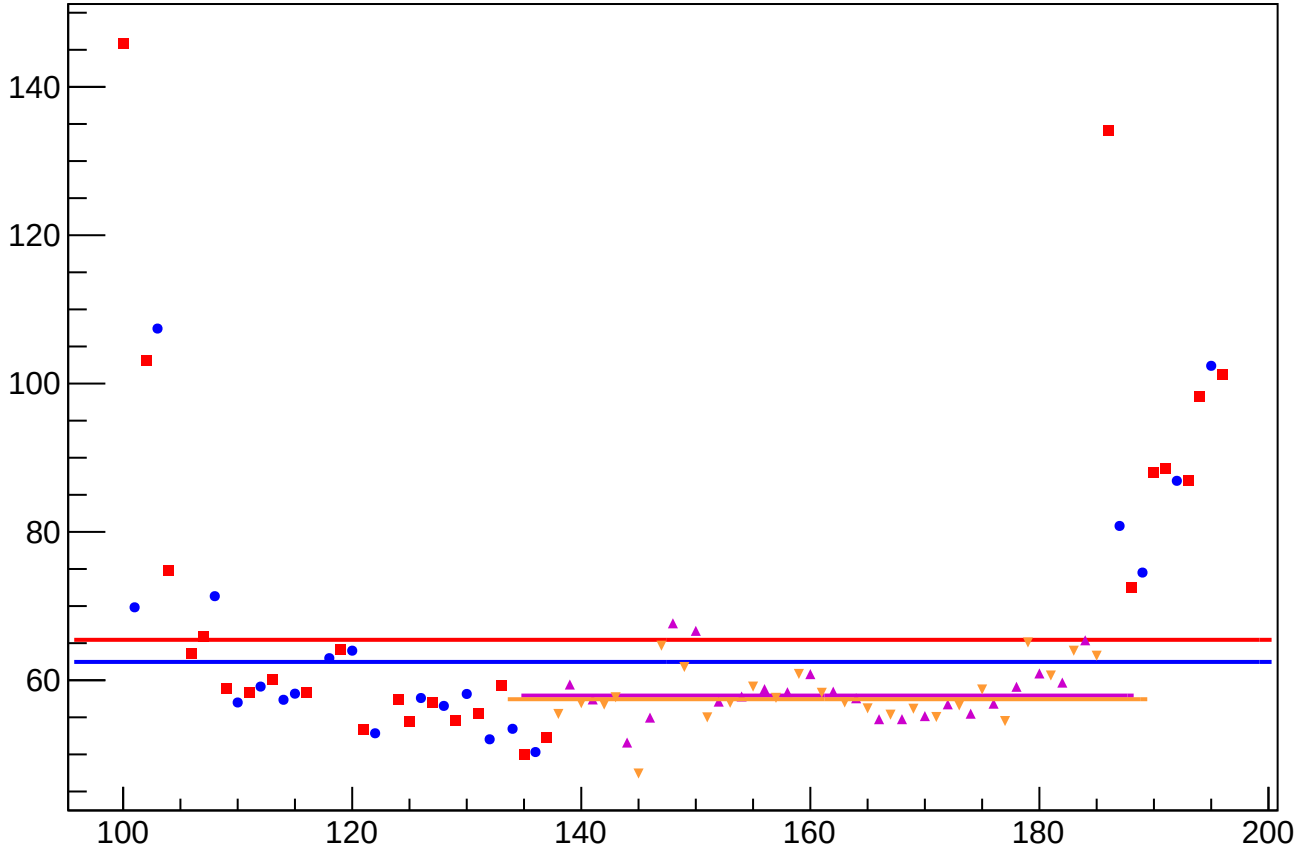
In: 366.345+/-0.051 $\chi^2$/NDF:3854600.8/42

Out: 372.301+/-0.049 $\chi^2$/NDF:5521240.4/50

All: 369.404+/-0.035 $\chi^2$/NDF: 9382914.7/93


cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected
400
200
0
−200
−400
−600
−800
−1000
100
120
140
160
180
200
Right In: 26.358+/-20.523 χ²/NDF: 20.6/19
Left Out: -106.099+/-13.089 χ²/NDF:40.7/24
Right Out: 12.062+/-19.639 χ²/NDF: 27.4/25
Left In: -88.621+/-13.566 χ²/NDF:23.9/22
Left: -97.673+/-9.420 χ²/NDF: 65.4/47
Right: 18.896+/-14.189 χ²/NDF: 48.2/45
In: -53.658+/-11.317 χ²/NDF:66.3/42
Out: -69.757+/-10.892 χ²/NDF:93.1/50
All: -62.016+/-7.848 χ²/NDF: 160.5/93

# cor_asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 62.469+/-0.015 $\chi^2$/NDF: 916578.1/19

Left Out: 57.440+/-0.009 $\chi^2$/NDF:174555.9/24

Right Out: 65.449+/-0.014 $\chi^2$/NDF: 1365270.5/25

Left In: 57.933+/-0.010 $\chi^2$/NDF:135903.0/22

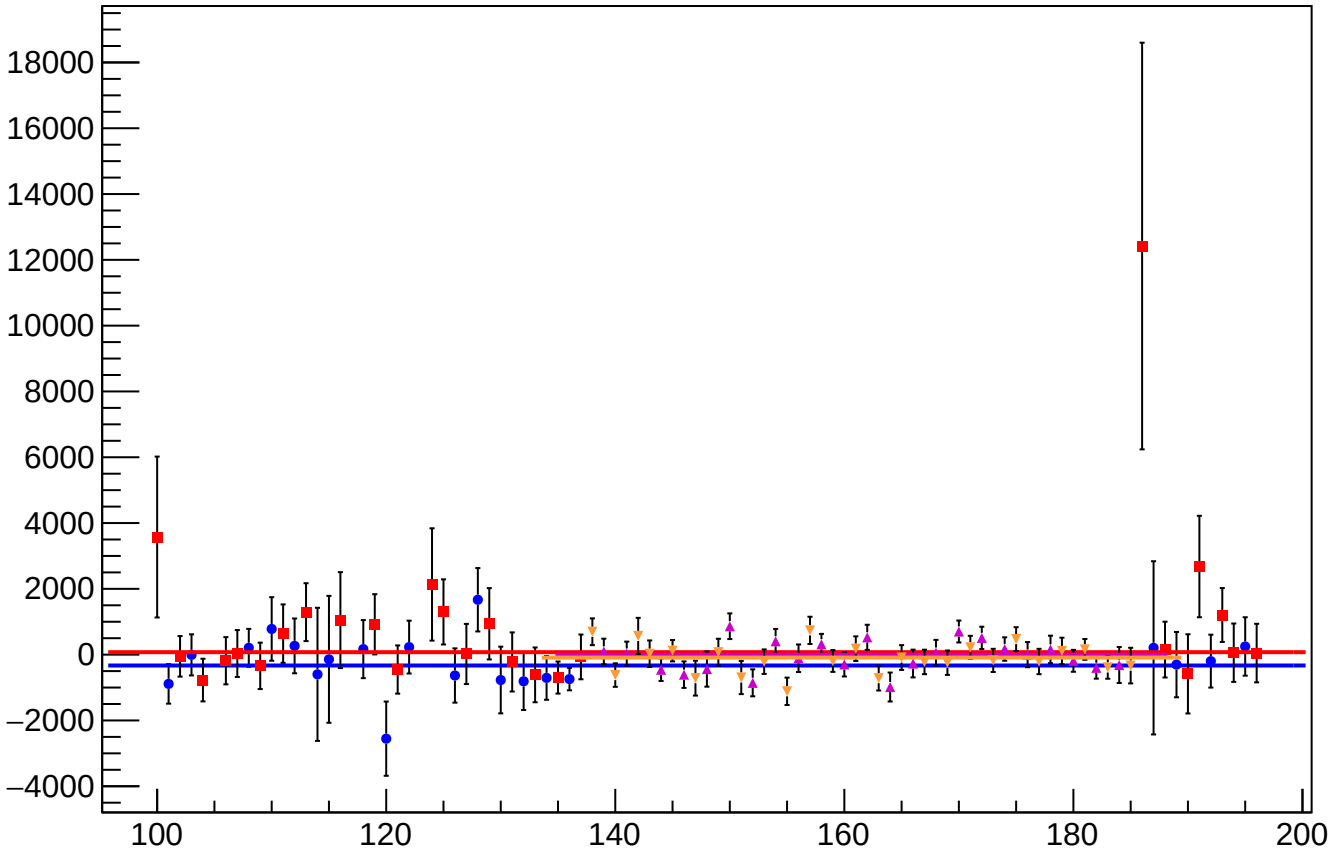
Left: 57.678+/-0.007 $\chi^2$/NDF: 311823.9/47

Right: 64.025+/-0.010 $\chi^2$/NDF: 2303857.3/45

In: 59.312+/-0.008 $\chi^2$/NDF:1120495.6/42

Out: 59.904+/-0.008 $\chi^2$/NDF:1770140.1/50

All: 59.619+/-0.006 $\chi^2$/NDF: 2893470.3/93




Right In: -329.965+/-169.924 $\chi^2$/NDF: 15.8/19

Left Out: -89.061+/-77.011 $\chi^2$/NDF:29.9/24

Right Out: 75.083+/-166.202 $\chi^2$/NDF: 24.4/25

Left In: -3.047+/-79.193 $\chi^2$/NDF:33.6/22

Left: -47.256+/-55.210 $\chi^2$/NDF: 64.1/47

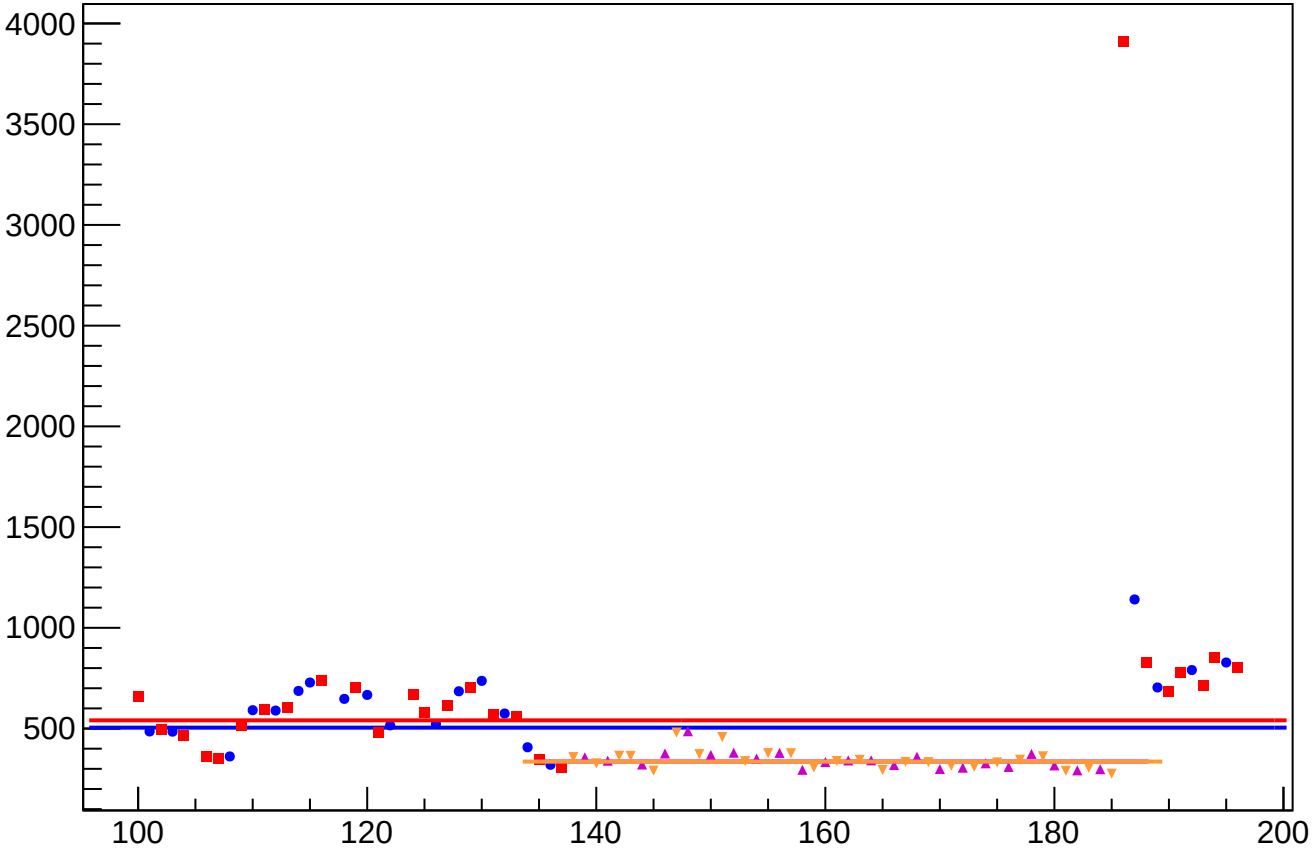
Right: -122.956+/-118.817 $\chi^2$/NDF: 43.1/45

In: -61.384+/-71.780 $\chi^2$/NDF:52.4/42

Out: -60.048+/-69.874 $\chi^2$/NDF:55.1/50

All: -60.698+/-50.069 $\chi^2$/NDF: 107.5/93

asym_sam_13_57_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 504.472+/-0.120 $\chi^2$/NDF: 1831850.3/19

Left Out: 335.894+/-0.054 $\chi^2$/NDF:533835.9/24

Right Out: 540.718+/-0.118 $\chi^2$/NDF: 2487370.5/25

Left In: 336.343+/-0.056 $\chi^2$/NDF:414205.9/22

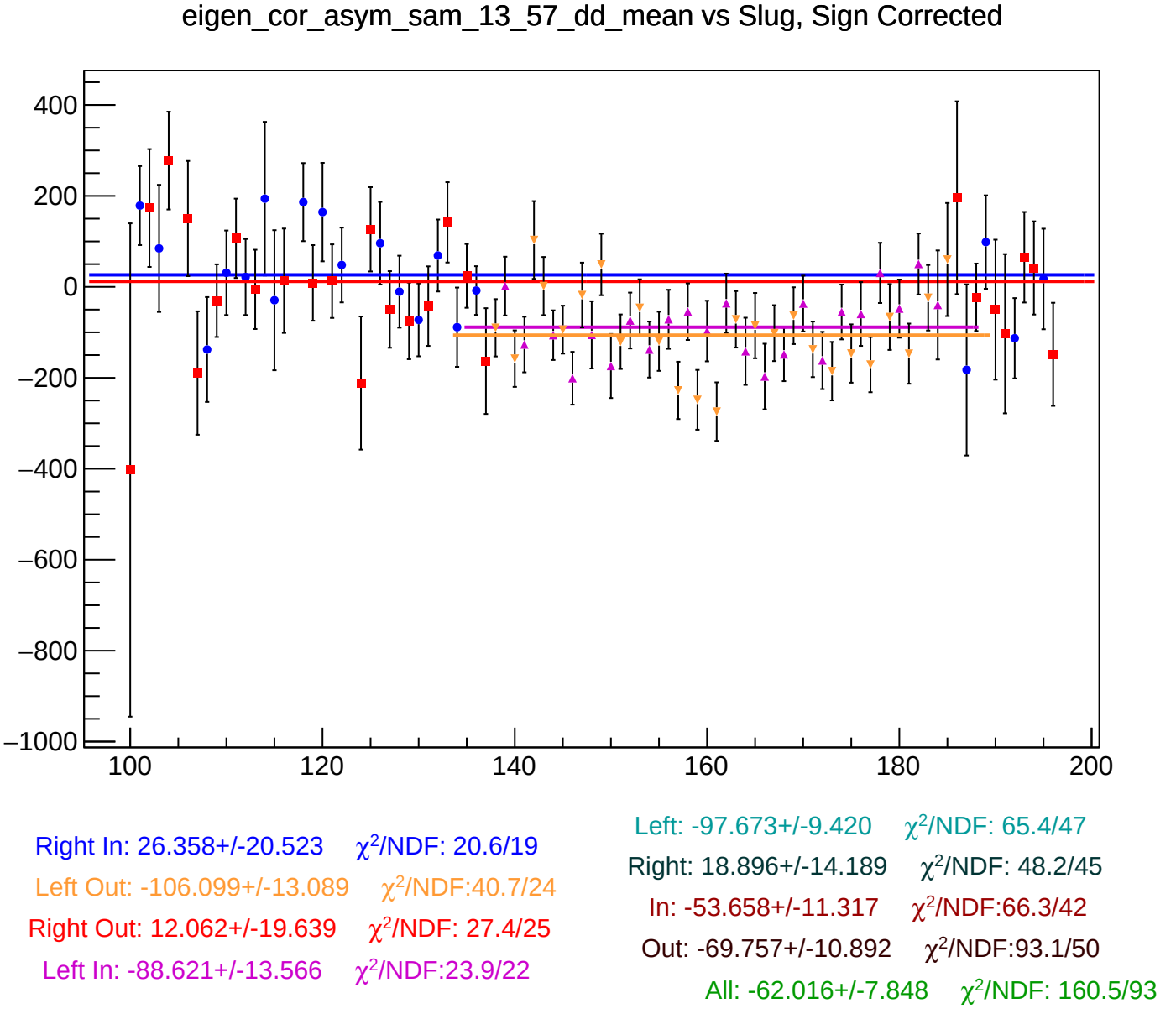
Left: 336.112+/-0.039 $\chi^2$/NDF: 948074.8/47

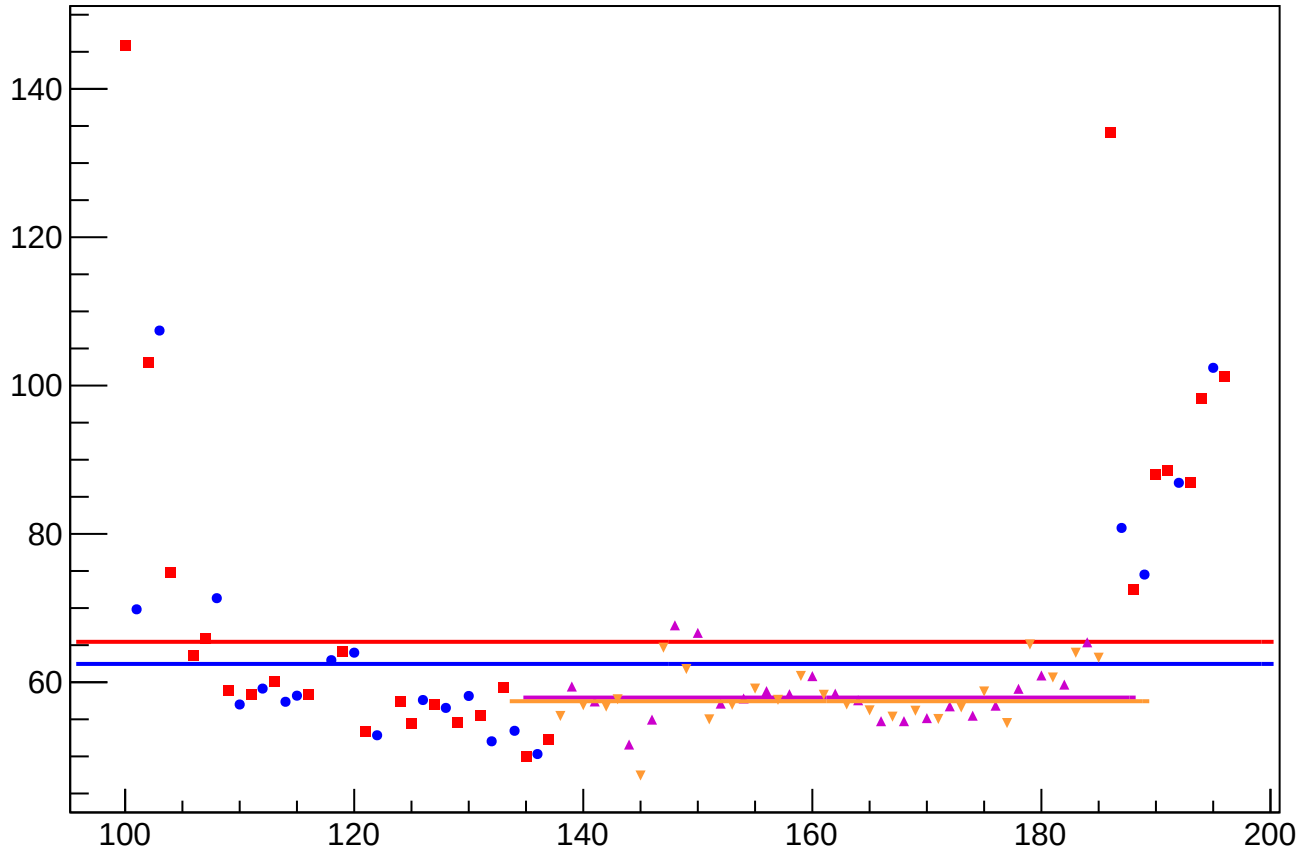
Right: 522.996+/-0.084 $\chi^2$/NDF: 4365728.6/45

In: 366.345+/-0.051 $\chi^2$/NDF:3854633.3/42

Out: 372.097+/-0.049 $\chi^2$/NDF:5521830.3/50

All: 369.298+/-0.035 $\chi^2$/NDF: 9383059.1/93


eigen_cor_asym_sam_13_57_dd_mean vs Slug, Sign Corrected
400
200
0
−200
−400
−600
−800
−1000
100
120
140
160
180
200
Right In: 26.358+/-20.523 χ²/NDF: 20.6/19
Left Out: -106.099+/-13.089 χ²/NDF:40.7/24
Right Out: 12.062+/-19.639 χ²/NDF: 27.4/25
Left In: -88.621+/-13.566 χ²/NDF:23.9/22
Left: -97.673+/-9.420 χ²/NDF: 65.4/47
Right: 18.896+/-14.189 χ²/NDF: 48.2/45
In: -53.658+/-11.317 χ²/NDF:66.3/42
Out: -69.757+/-10.892 χ²/NDF:93.1/50
All: -62.016+/-7.848 χ²/NDF: 160.5/93




Right In: 62.469+/-0.015 $\chi^2$/NDF: 916578.1/19

Left Out: 57.440+/-0.009 $\chi^2$/NDF:174555.9/24

Right Out: 65.449+/-0.014 $\chi^2$/NDF: 1365270.5/25

Left In: 57.933+/-0.010 $\chi^2$/NDF:135903.0/22

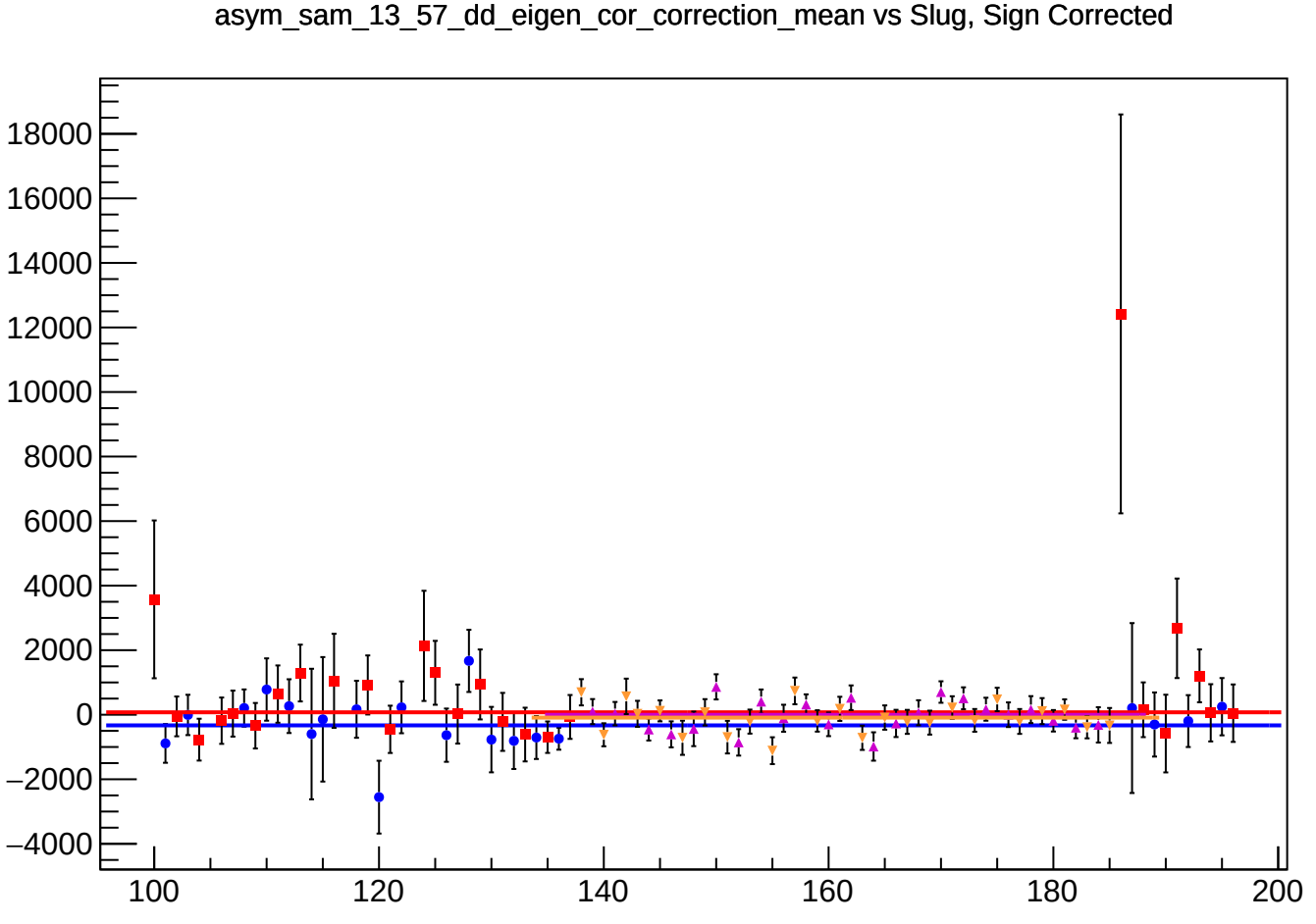
Left: 57.678+/-0.007 $\chi^2$/NDF: 311823.9/47

Right: 64.025+/-0.010 $\chi^2$/NDF: 2303857.3/45

In: 59.312+/-0.008 $\chi^2$/NDF:1120495.6/42

Out: 59.904+/-0.008 $\chi^2$/NDF:1770140.1/50

All: 59.619+/-0.006 $\chi^2$/NDF: 2893470.3/93




Right In: -329.965+/-169.924 $\chi^2$/NDF: 15.8/19

Left Out: -89.061+/-77.011 $\chi^2$/NDF:29.9/24

Right Out: 75.083+/-166.202 $\chi^2$/NDF: 24.4/25

Left In: -3.047+/-79.193 $\chi^2$/NDF:33.6/22

Left: -47.256+/-55.210 $\chi^2$/NDF: 64.1/47

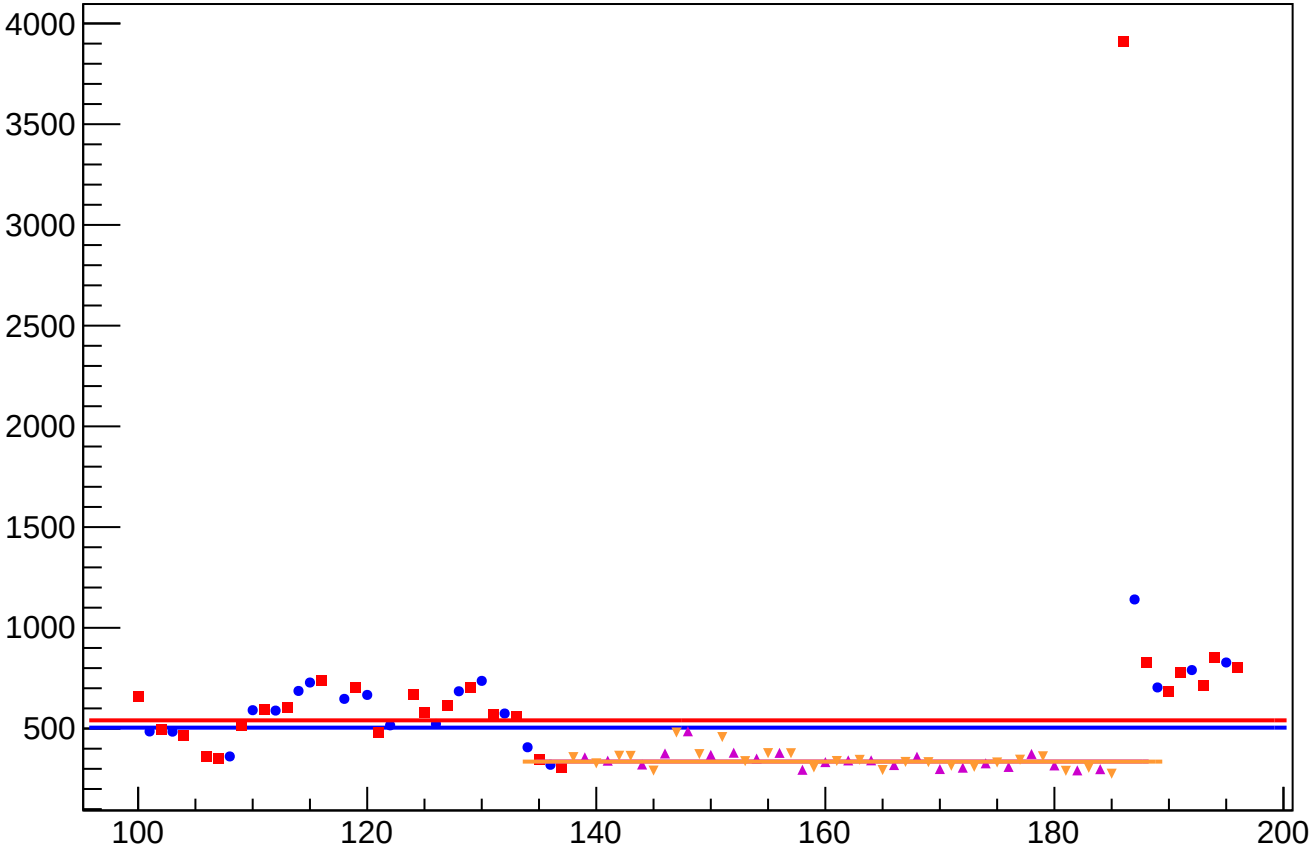
Right: -122.956+/-118.817 $\chi^2$/NDF: 43.1/45

In: -61.384+/-71.780 $\chi^2$/NDF:52.4/42

Out: -60.048+/-69.874 $\chi^2$/NDF:55.1/50

All: -60.698+/-50.069 $\chi^2$/NDF: 107.5/93

asym_sam_13_57_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 504.472+/-0.120 $\chi^2$/NDF: 1831850.3/19

Left Out: 335.894+/-0.054 $\chi^2$/NDF:533835.9/24

Right Out: 540.718+/-0.118 $\chi^2$/NDF: 2487370.5/25

Left In: 336.343+/-0.056 $\chi^2$/NDF:414205.9/22

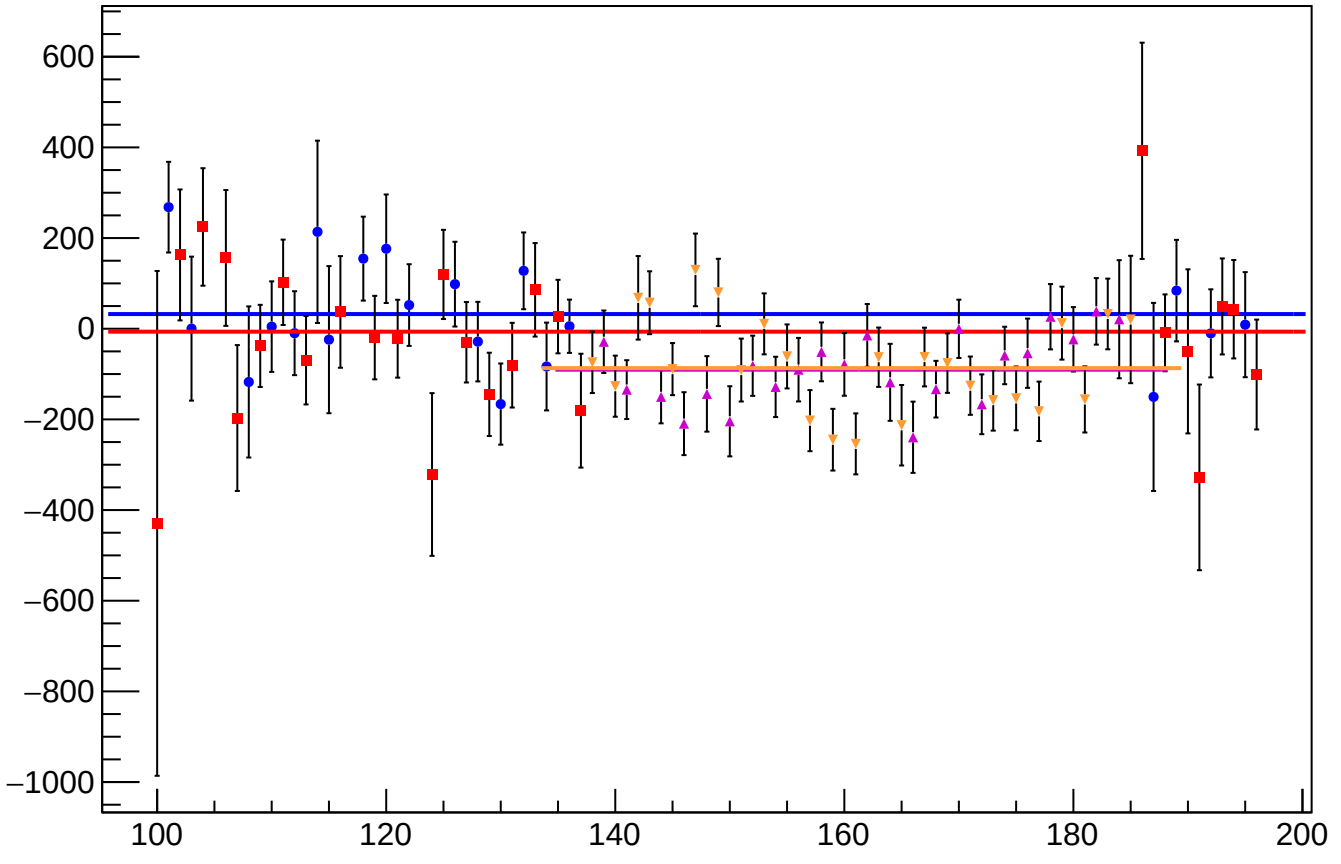
Left: 336.112+/-0.039 $\chi^2$/NDF: 948074.8/47

Right: 522.996+/-0.084 $\chi^2$/NDF: 4365728.6/45

In: 366.345+/-0.051 $\chi^2$/NDF:3854633.3/42

Out: 372.097+/-0.049 $\chi^2$/NDF:5521830.3/50

All: 369.298+/-0.035 $\chi^2$/NDF: 9383059.1/93




Right In: 32.340+/-22.626 $\chi^2$/NDF: 20.9/19

Left Out: -86.957+/-14.175 $\chi^2$/NDF:48.8/24

Right Out: -6.496+/-21.768 $\chi^2$/NDF: 26.8/25

Left In: -90.363+/-14.656 $\chi^2$/NDF:25.0/22

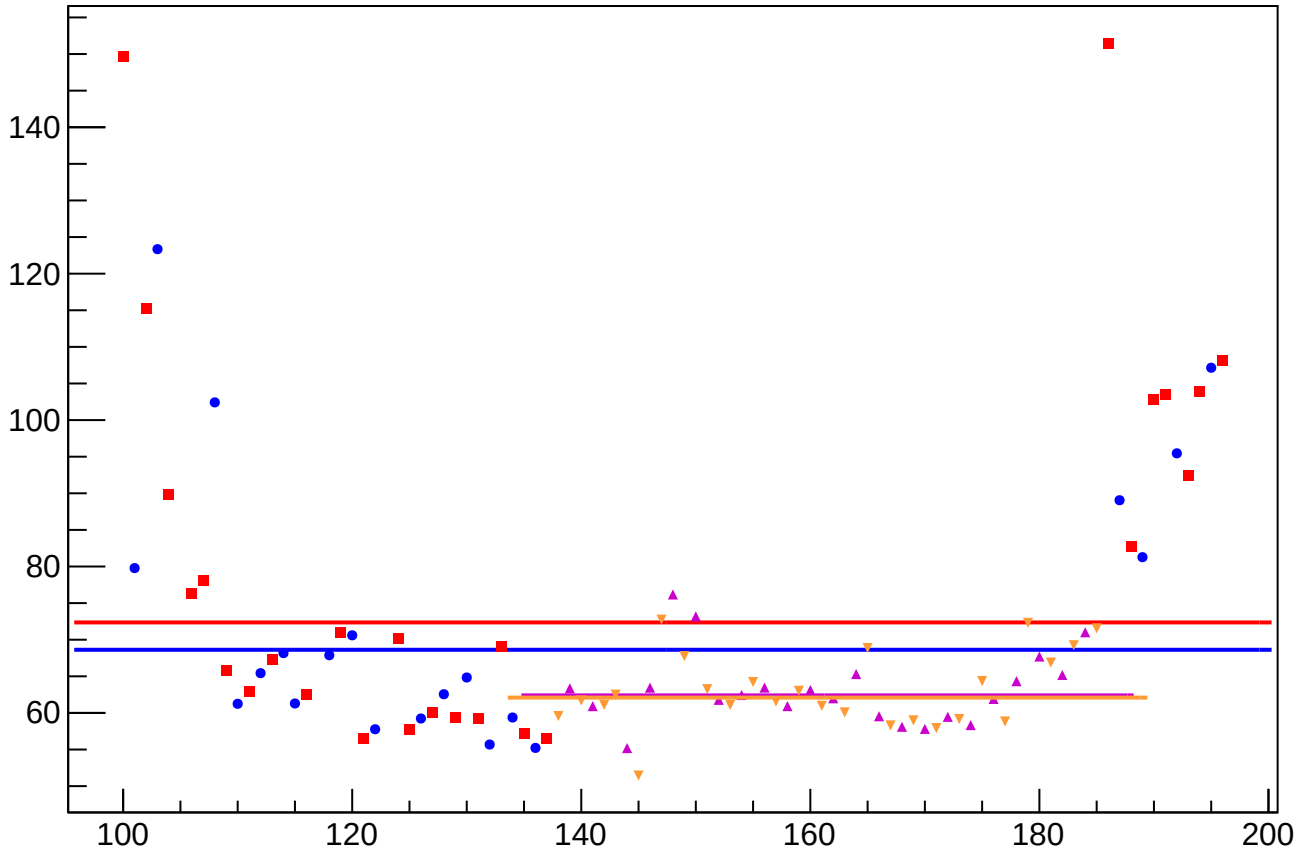
Left: -88.603+/-10.189 $\chi^2$/NDF: 73.9/47

Right: 12.172+/-15.687 $\chi^2$/NDF: 49.2/45

In: -54.095+/-12.301 $\chi^2$/NDF:66.7/42

Out: -62.999+/-11.878 $\chi^2$/NDF:85.2/50

All: -58.703+/-8.545 $\chi^2$/NDF: 152.1/93




Right In: 68.625+/-0.016 $\chi^2$/NDF: 1012602.1/19

Left Out: 62.093+/-0.010 $\chi^2$/NDF:233343.0/24

Right Out: 72.361+/-0.015 $\chi^2$/NDF: 1408949.4/25

Left In: 62.395+/-0.010 $\chi^2$/NDF:188814.3/22

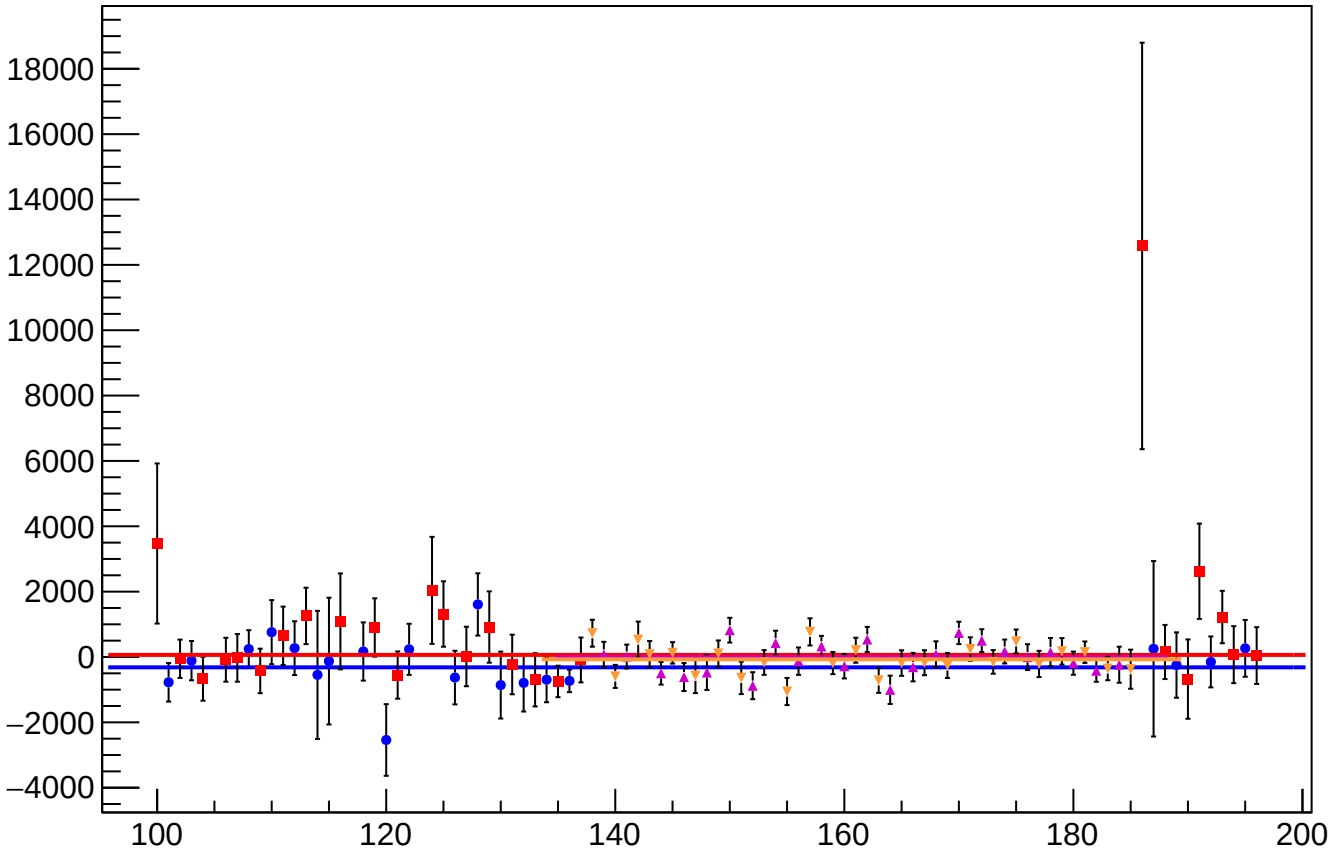
Left: 62.239+/-0.007 $\chi^2$/NDF: 422596.0/47

Right: 70.565+/-0.011 $\chi^2$/NDF: 2449858.8/45

In: 64.237+/-0.009 $\chi^2$/NDF:1308234.9/42

Out: 65.150+/-0.008 $\chi^2$/NDF:1954757.4/50

All: 64.710+/-0.006 $\chi^2$/NDF: 3268703.4/93




Right In: -316.791+/-169.374 $\chi^2$/NDF: 15.4/19

Left Out: -71.324+/-78.399 $\chi^2$/NDF:28.6/24

Right Out: 63.301+/-164.035 $\chi^2$/NDF: 25.3/25

Left In: -6.134+/-80.760 $\chi^2$/NDF:34.0/22

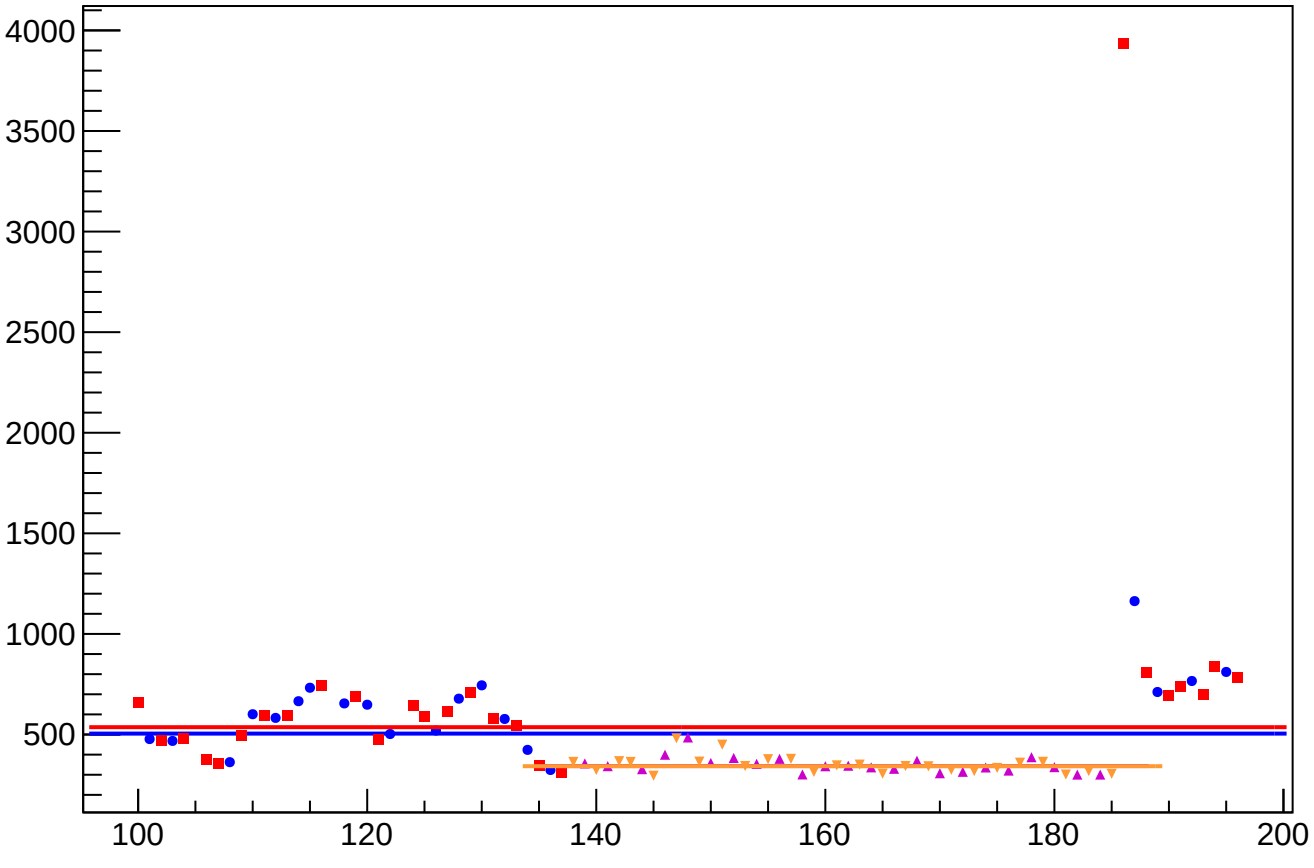
Left: -39.696+/-56.253 $\chi^2$/NDF: 62.9/47

Right: -120.661+/-117.832 $\chi^2$/NDF: 43.3/45

In: -63.680+/-72.897 $\chi^2$/NDF:52.1/42

Out: -46.290+/-70.735 $\chi^2$/NDF:54.4/50

All: -54.723+/-50.765 $\chi^2$/NDF: 106.6/93




Right In: 504.569+/-0.120 $\chi^2$/NDF: 1749545.4/19

Left Out: 342.502+/-0.055 $\chi^2$/NDF:434208.3/24

Right Out: 536.458+/-0.116 $\chi^2$/NDF: 2404100.5/25

Left In: 343.245+/-0.057 $\chi^2$/NDF:372991.6/22

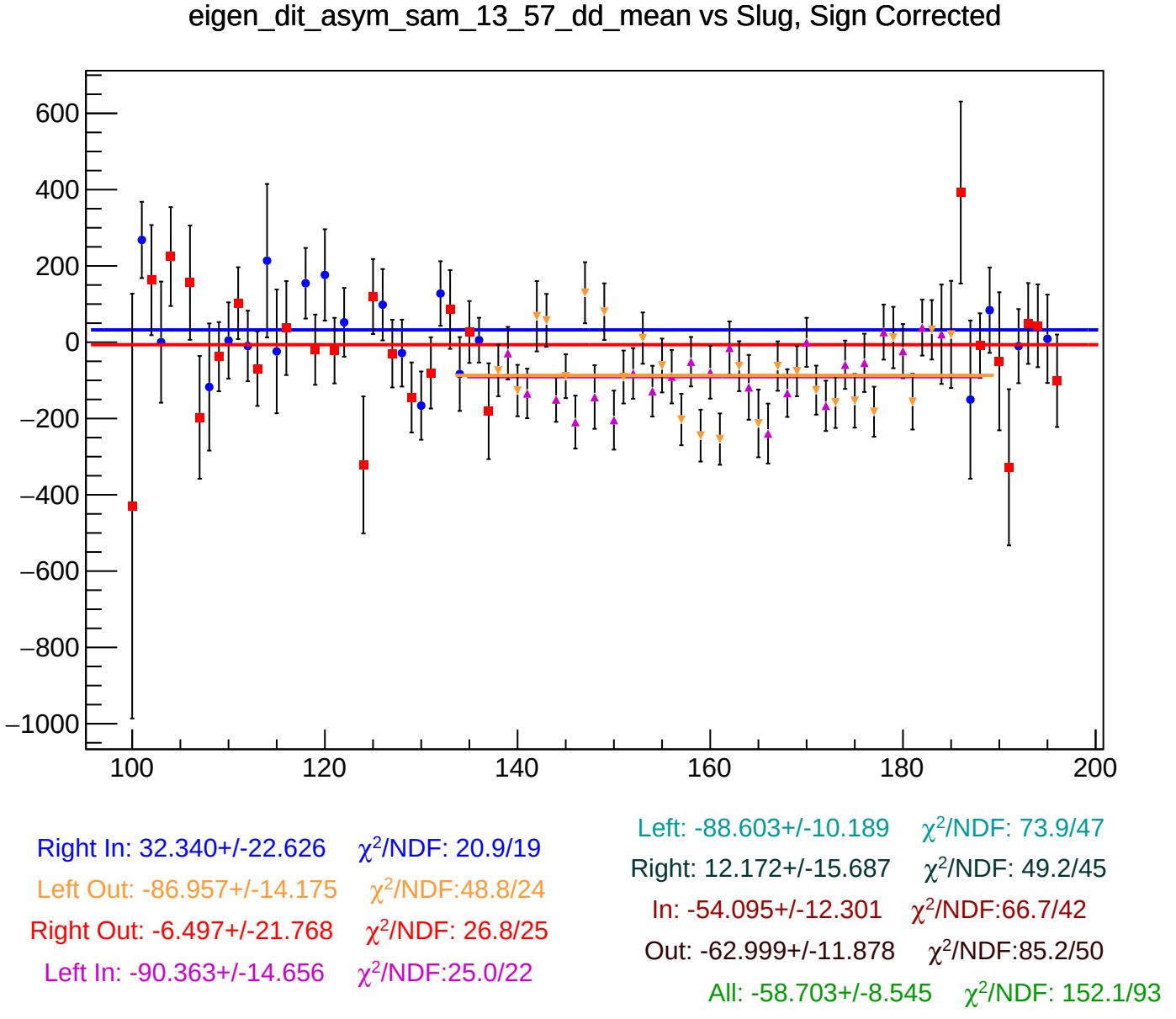
Left: 342.863+/-0.040 $\chi^2$/NDF: 807286.9/47

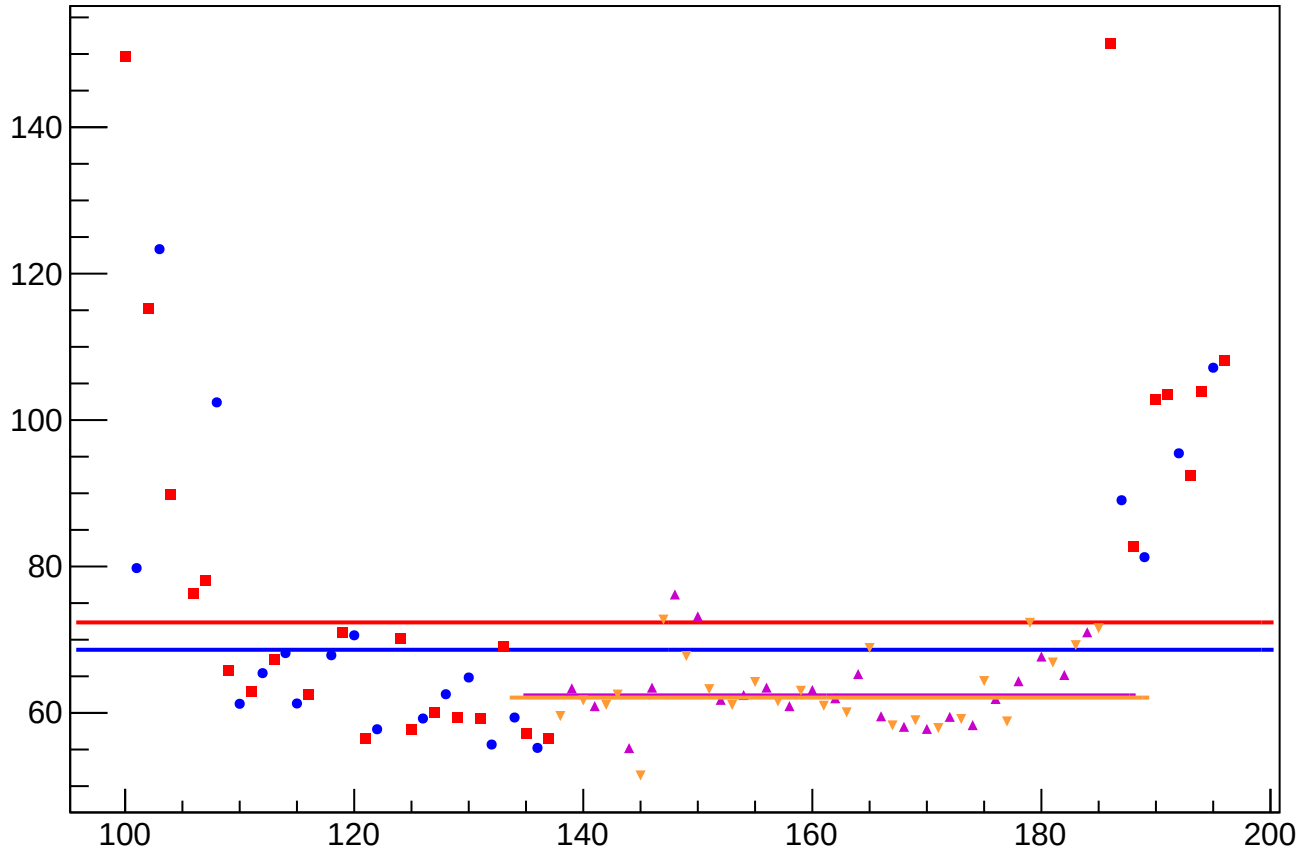
Right: 521.024+/-0.083 $\chi^2$/NDF: 4190228.1/45

In: 373.128+/-0.052 $\chi^2$/NDF:3600861.7/42

Out: 378.569+/-0.050 $\chi^2$/NDF:5114519.2/50

All: 375.930+/-0.036 $\chi^2$/NDF: 8721118.9/93


eigen_dit_asym_sam_13_57_dd_mean vs Slug, Sign Corrected
600
400
200
0
−200
−400
−600
−800
−1000
100
120
140
160
180
200
Right In: 32.340+/-22.626 χ²/NDF: 20.9/19
Left Out: -86.957+/-14.175 χ²/NDF:48.8/24
Right Out: -6.497+/-21.768 χ²/NDF: 26.8/25
Left In: -90.363+/-14.656 χ²/NDF:25.0/22
Left: -88.603+/-10.189 χ²/NDF: 73.9/47
Right: 12.172+/-15.687 χ²/NDF: 49.2/45
In: -54.095+/-12.301 χ²/NDF:66.7/42
Out: -62.999+/-11.878 χ²/NDF:85.2/50
All: -58.703+/-8.545 χ²/NDF: 152.1/93




Right In: 68.625+/-0.016 $\chi^2$/NDF: 1012622.3/19

Left Out: 62.093+/-0.010 $\chi^2$/NDF:233347.2/24

Right Out: 72.361+/-0.015 $\chi^2$/NDF: 1408951.7/25

Left In: 62.395+/-0.010 $\chi^2$/NDF:188817.4/22

Left: 62.239+/-0.007 $\chi^2$/NDF: 422603.3/47

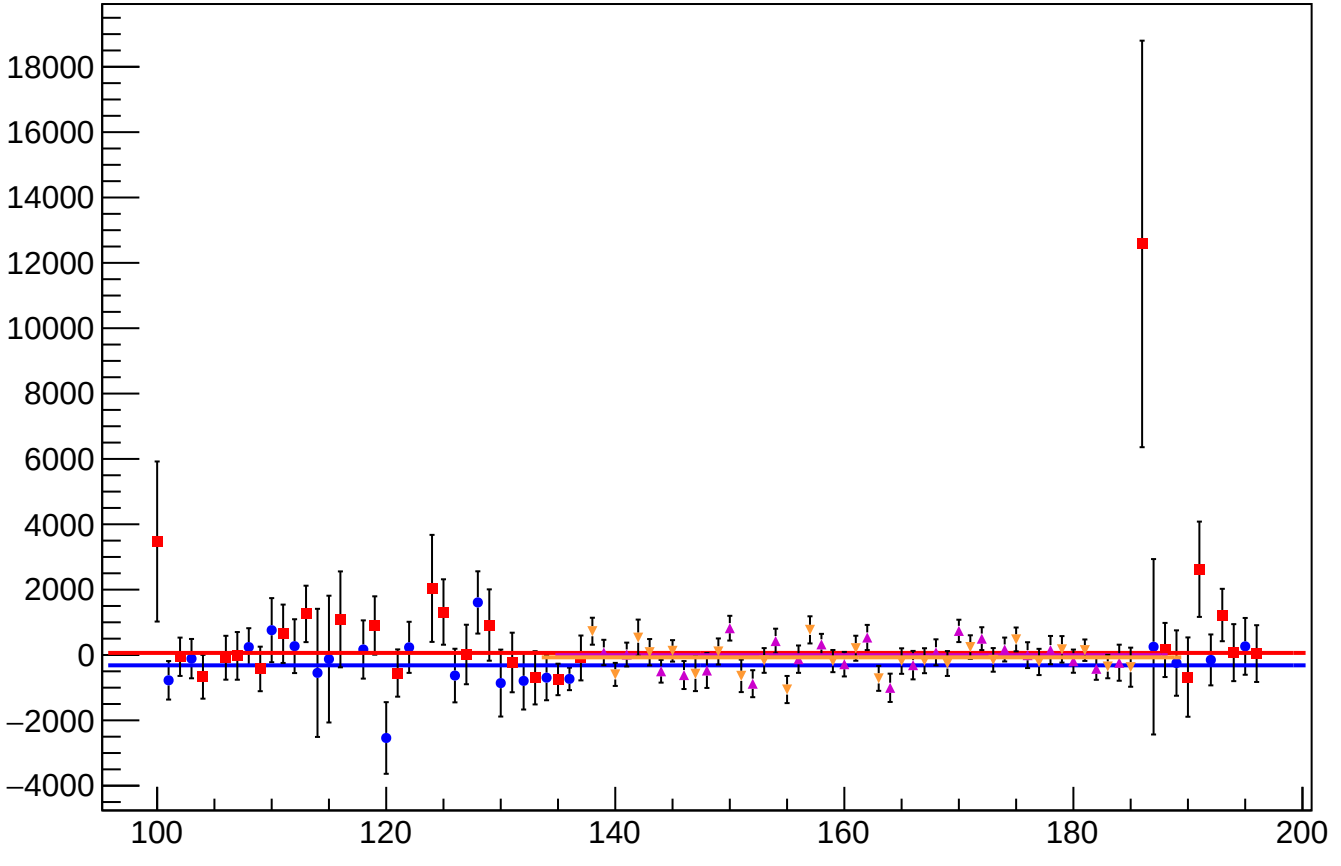
Right: 70.565+/-0.011 $\chi^2$/NDF: 2449881.4/45

In: 64.237+/-0.009 $\chi^2$/NDF:1308254.4/42

Out: 65.150+/-0.008 $\chi^2$/NDF:1954760.0/50

All: 64.709+/-0.006 $\chi^2$/NDF: 3268725.4/93

asym_sam_13_57_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -316.791+/-169.374 $\chi^2$/NDF: 15.4/19

Left Out: -71.324+/-78.399 $\chi^2$/NDF:28.6/24

Right Out: 63.300+/-164.035 $\chi^2$/NDF: 25.3/25

Left In: -6.134+/-80.760 $\chi^2$/NDF:34.0/22

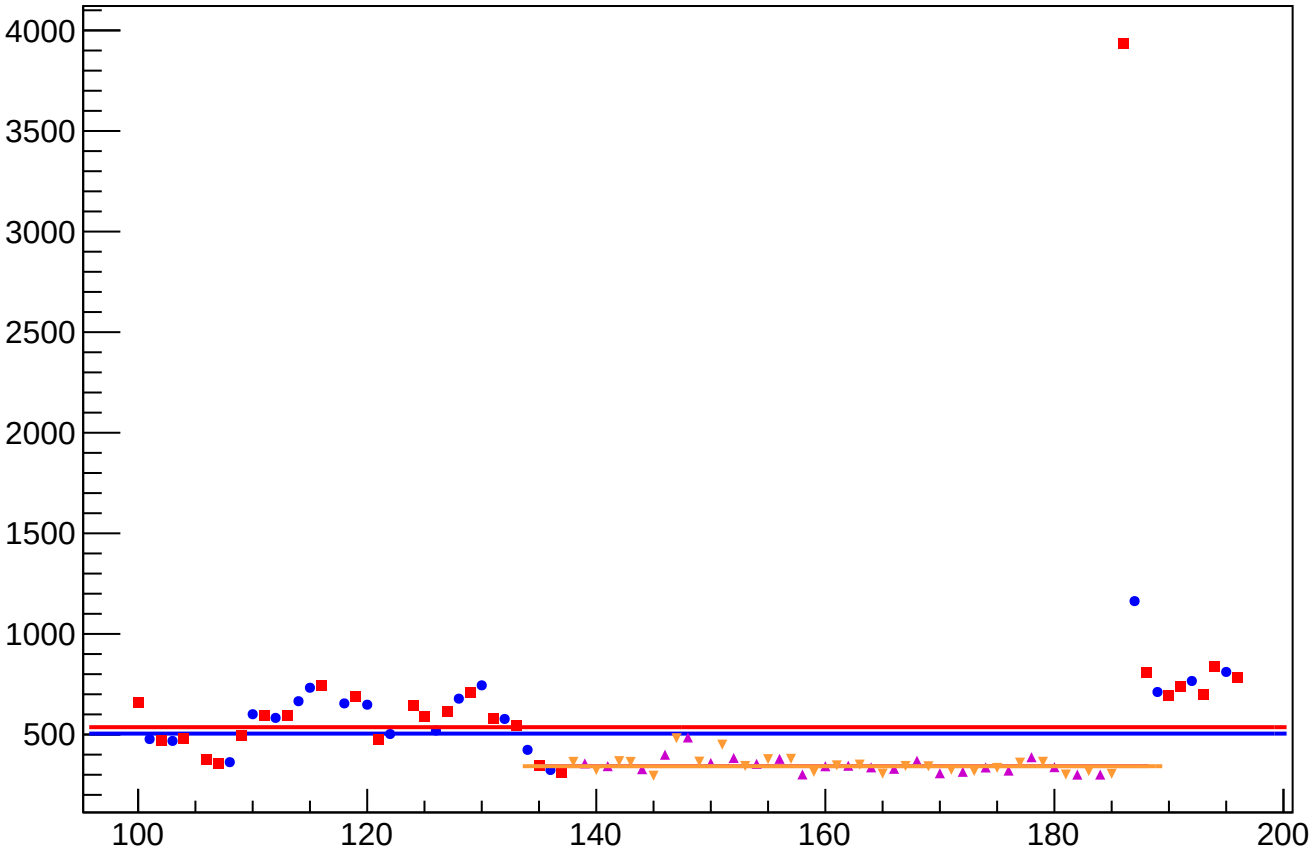
Left: -39.696+/-56.253 $\chi^2$/NDF: 62.9/47

Right: -120.661+/-117.832 $\chi^2$/NDF: 43.3/45

In: -63.680+/-72.897 $\chi^2$/NDF:52.1/42

Out: -46.290+/-70.735 $\chi^2$/NDF:54.4/50

All: -54.723+/-50.765 $\chi^2$/NDF: 106.6/93




Right In: 504.569+/-0.120 $\chi^2$/NDF: 1749546.7/19

Left Out: 342.502+/-0.055 $\chi^2$/NDF:434210.5/24

Right Out: 536.457+/-0.116 $\chi^2$/NDF: 2404102.8/25

Left In: 343.245+/-0.057 $\chi^2$/NDF:372993.5/22

Left: 342.863+/-0.040 $\chi^2$/NDF: 807291.0/47

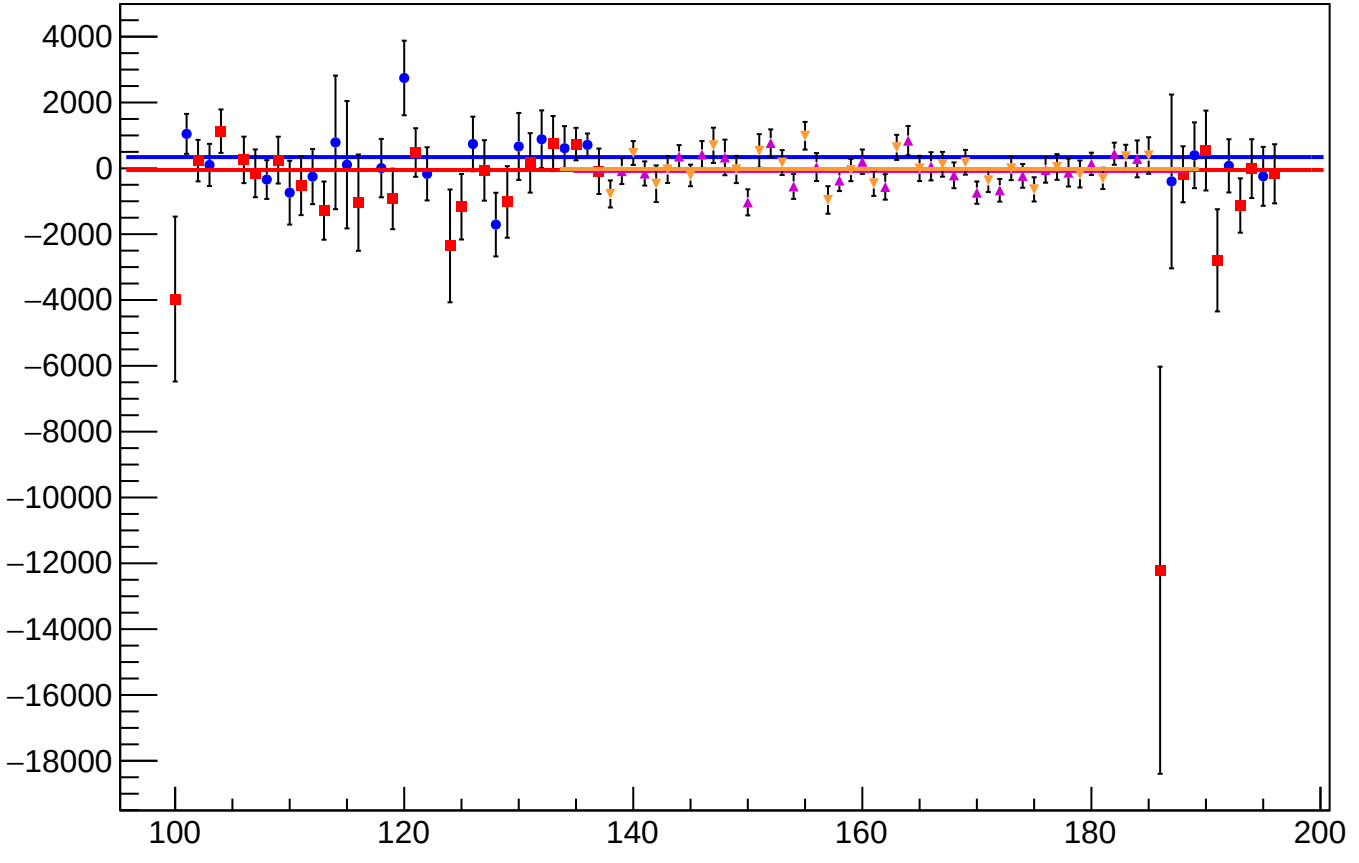
Right: 521.024+/-0.083 $\chi^2$/NDF: 4190231.4/45

In: 373.128+/-0.052 $\chi^2$/NDF:3600854.0/42

Out: 378.569+/-0.050 $\chi^2$/NDF:5114510.0/50

All: 375.930+/-0.036 $\chi^2$/NDF: 8721101.7/93

# asym_sam_13_57_dd_mean vs Slug, Sign Corrected




Right In: 341.500+/-171.765 $\chi^2$/NDF: 16.8/19

Left Out: -20.272+/-78.196 $\chi^2$/NDF:31.4/24

Right Out: -49.694+/-167.603 $\chi^2$/NDF: 26.8/25

Left In: -78.719+/-80.410 $\chi^2$/NDF:32.9/22

Left: -48.680+/-56.059 $\chi^2$/NDF: 64.6/47

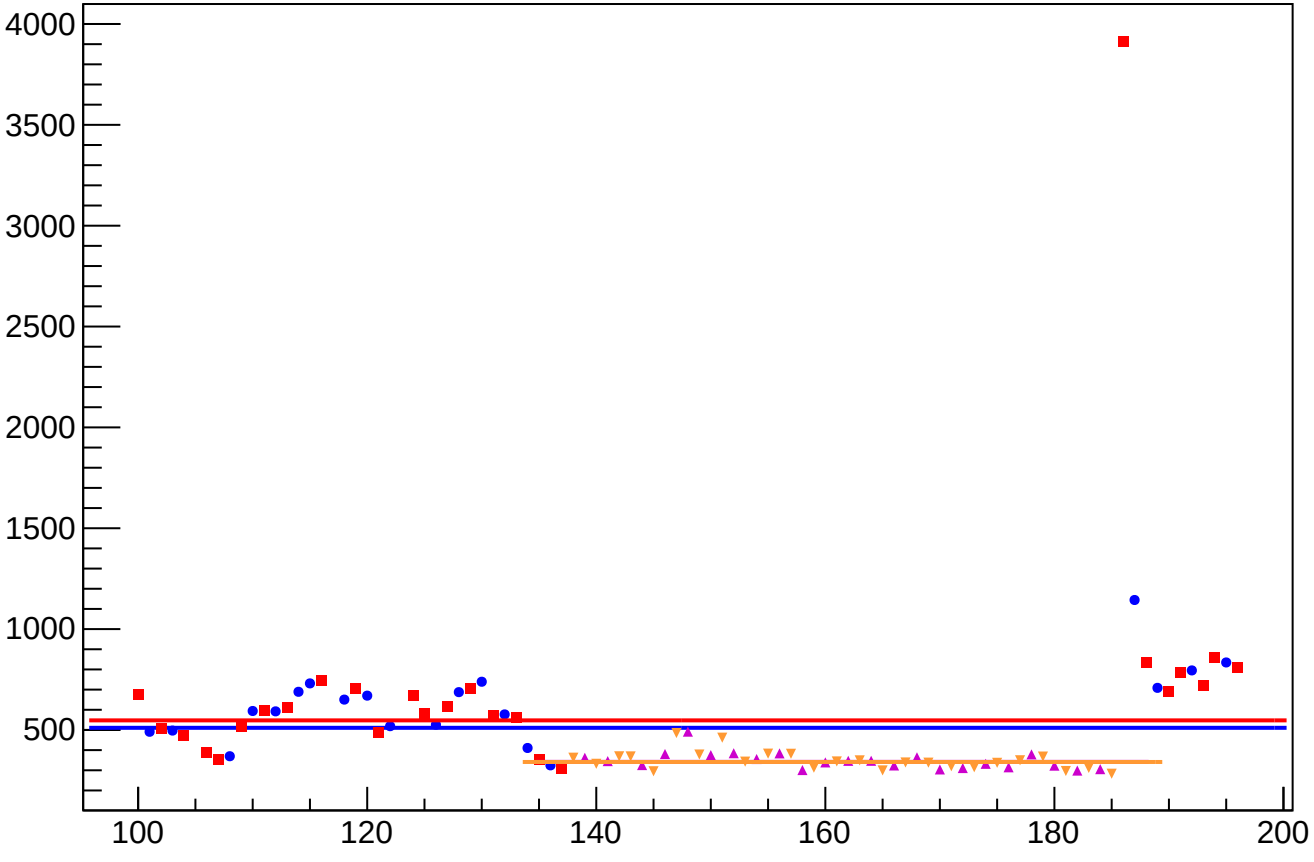
Right: 141.107+/-119.957 $\chi^2$/NDF: 46.2/45

In: -3.180+/-72.825 $\chi^2$/NDF:54.6/42

Out: -25.532+/-70.863 $\chi^2$/NDF:58.2/50

All: -14.661+/-50.787 $\chi^2$/NDF: 112.9/93

# asym_sam_13_57_dd_rms vs Slug, Sign Corrected




Right In: 510.583+/-0.121 $\chi^2$/NDF: 1788814.8/19

Left Out: 341.199+/-0.055 $\chi^2$/NDF:510854.5/24

Right Out: 547.470+/-0.119 $\chi^2$/NDF: 2420910.7/25

Left In: 341.622+/-0.057 $\chi^2$/NDF:396885.0/22

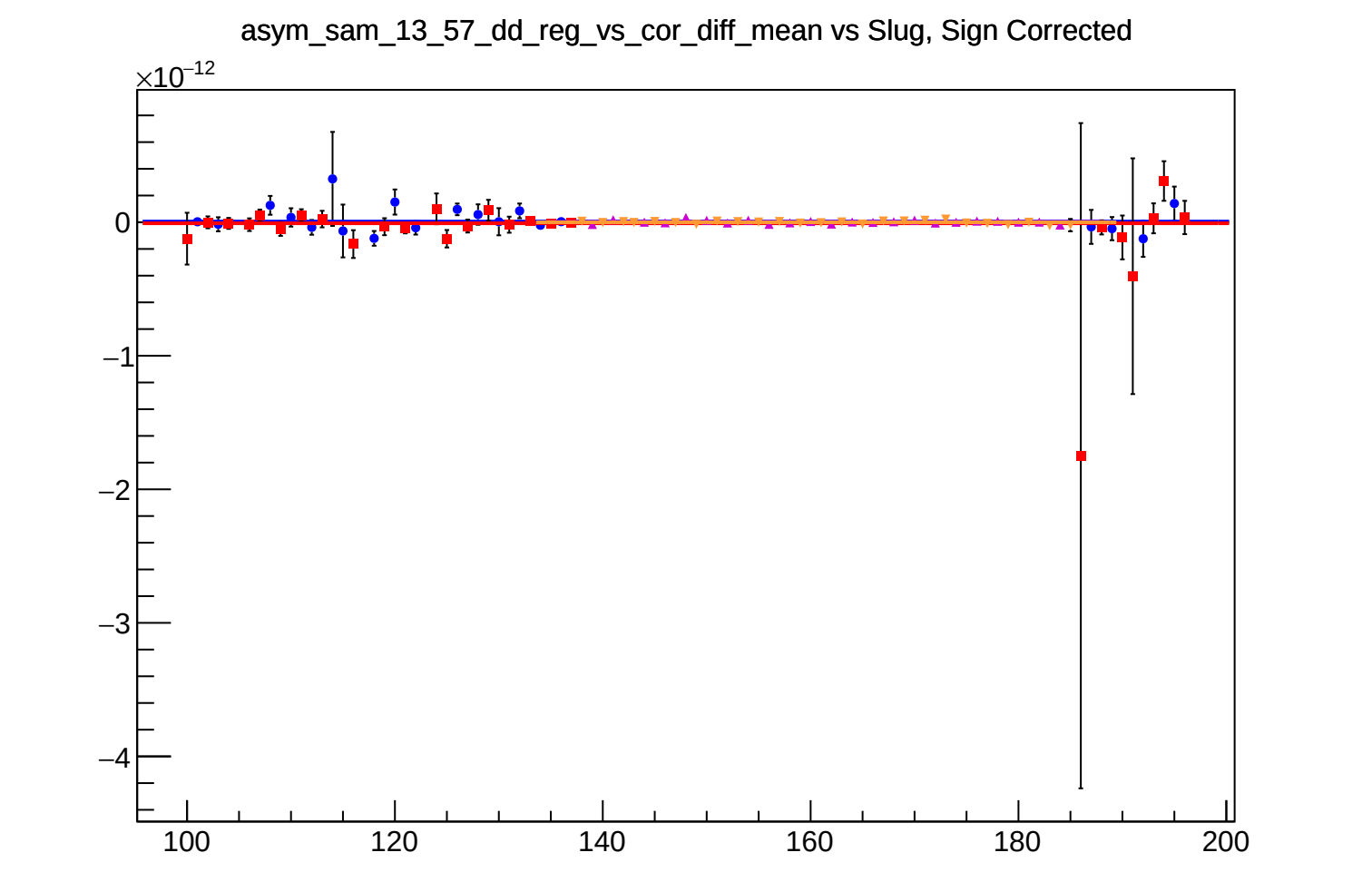
Left: 341.405+/-0.040 $\chi^2$/NDF: 907768.0/47

Right: 529.479+/-0.085 $\chi^2$/NDF: 4256976.5/45

In: 371.995+/-0.051 $\chi^2$/NDF:3773048.8/42

Out: 378.073+/-0.050 $\chi^2$/NDF:5419544.5/50

All: 375.117+/-0.036 $\chi^2$/NDF: 9199748.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.4/22

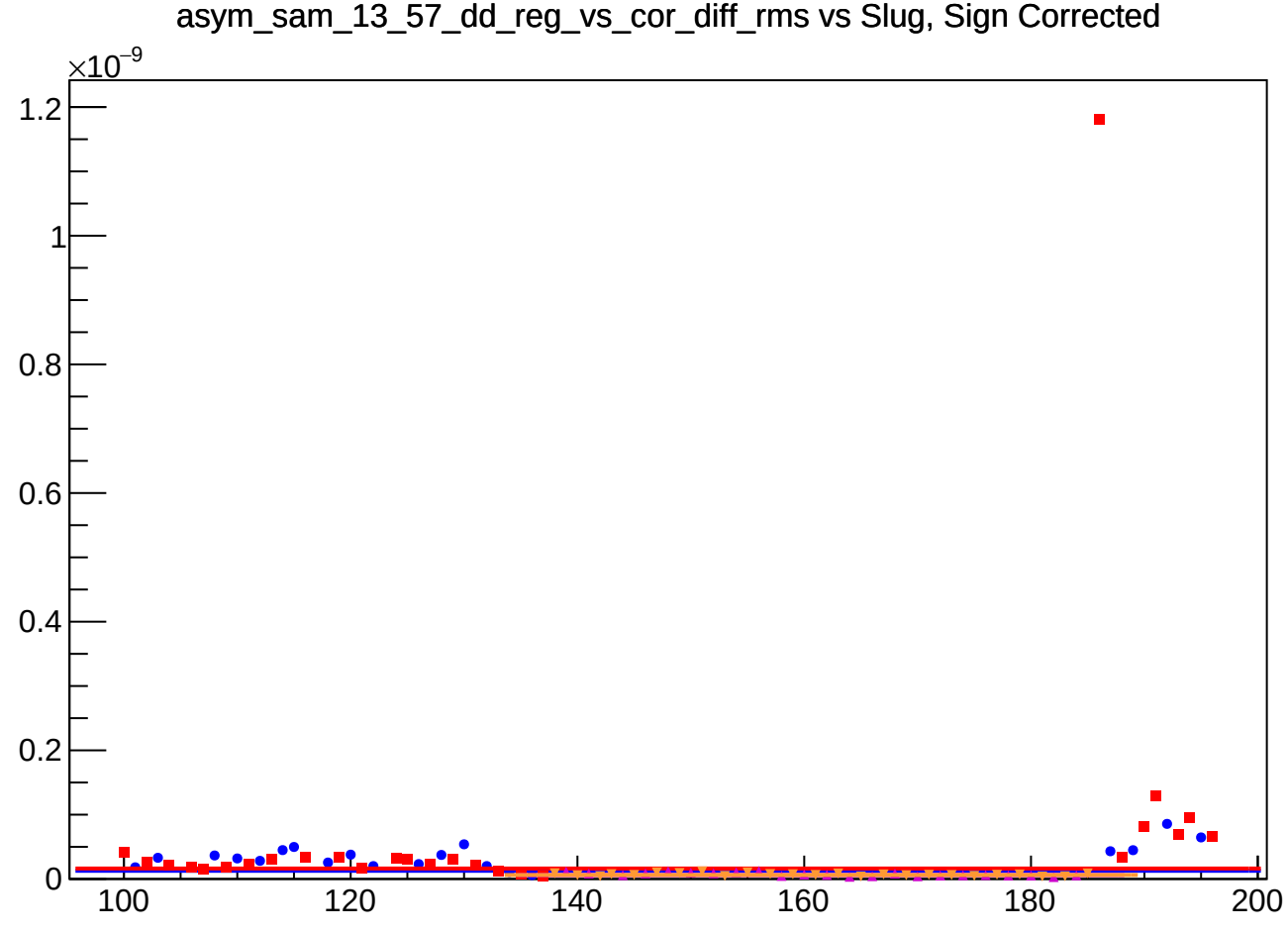
Left: 0.000+/-0.000 $\chi^2$/NDF: 34.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 45.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:38.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:40.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 79.3/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4168952.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1159883.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4198304.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1660677.6/22

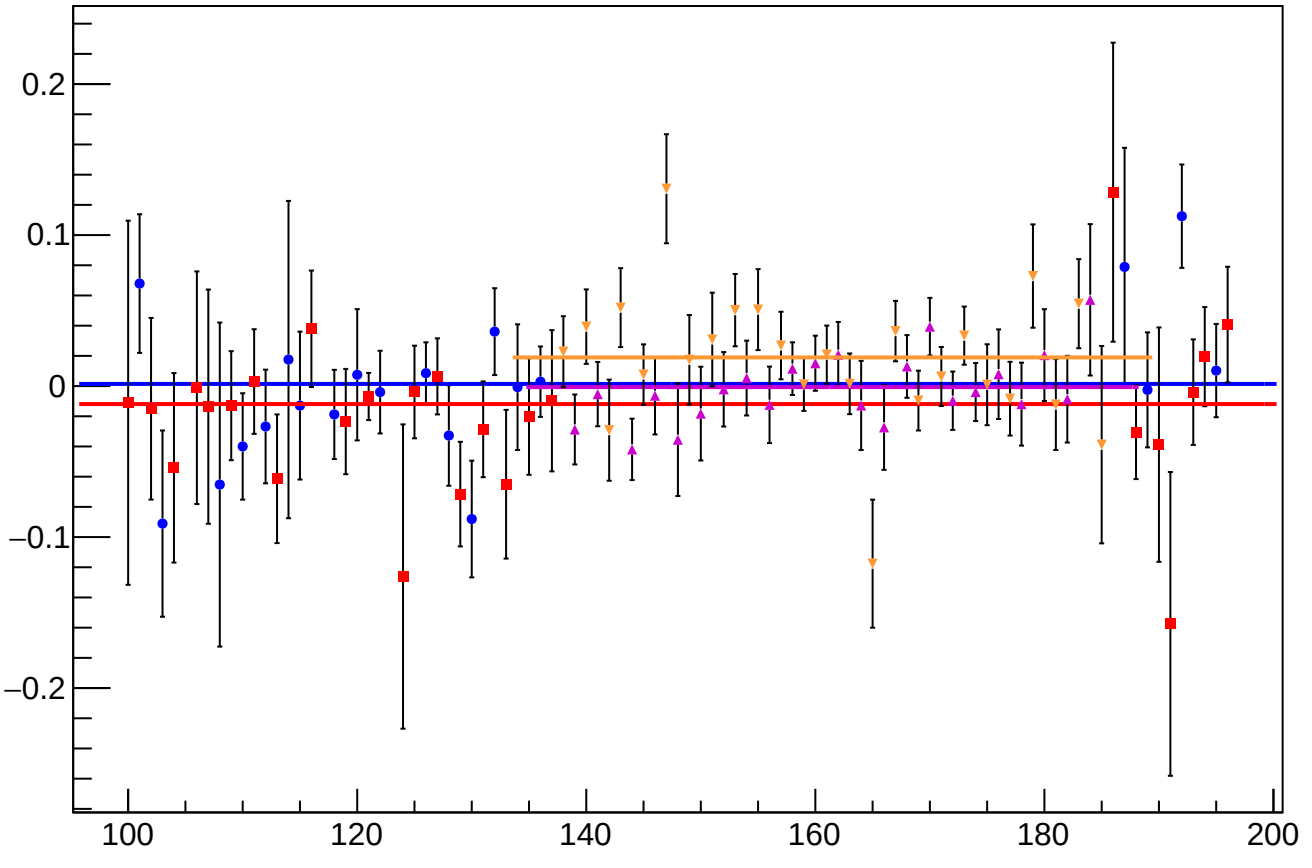
Left: 0.000+/-0.000 $\chi^2$/NDF: 2824480.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8539554.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:7103977.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7680288.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 14793941.9/93




Right In: 0.001+/-0.008 $\chi^2$/NDF: 26.9/19

Left Out: 0.019+/-0.005 $\chi^2$/NDF:41.2/24

Right Out: -0.012+/-0.007 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.005 $\chi^2$/NDF:17.7/22

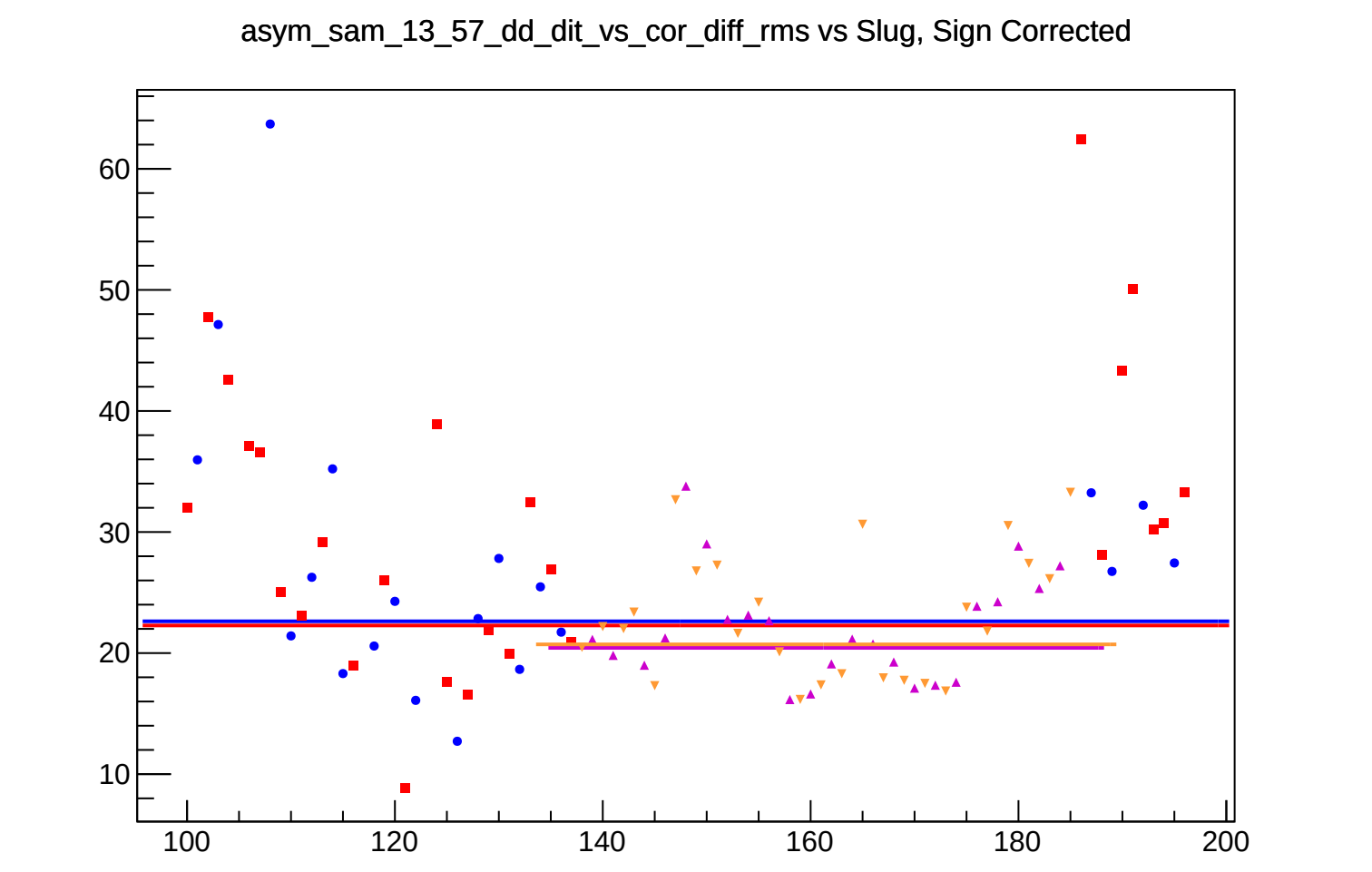
Left: 0.009+/-0.003 $\chi^2$/NDF: 66.9/47

Right: -0.006+/-0.005 $\chi^2$/NDF: 46.1/45

In: -0.000+/-0.004 $\chi^2$/NDF:44.6/42

Out: 0.010+/-0.004 $\chi^2$/NDF:71.1/50

All: 0.005+/-0.003 $\chi^2$/NDF: 118.5/93




Right In: 22.627+/-0.006 $\chi^2$/NDF: 1791404.3/19

Left Out: 20.718+/-0.003 $\chi^2$/NDF:1506374.1/24

Right Out: 22.280+/-0.005 $\chi^2$/NDF: 3735073.1/25

Left In: 20.429+/-0.003 $\chi^2$/NDF:1173949.1/22

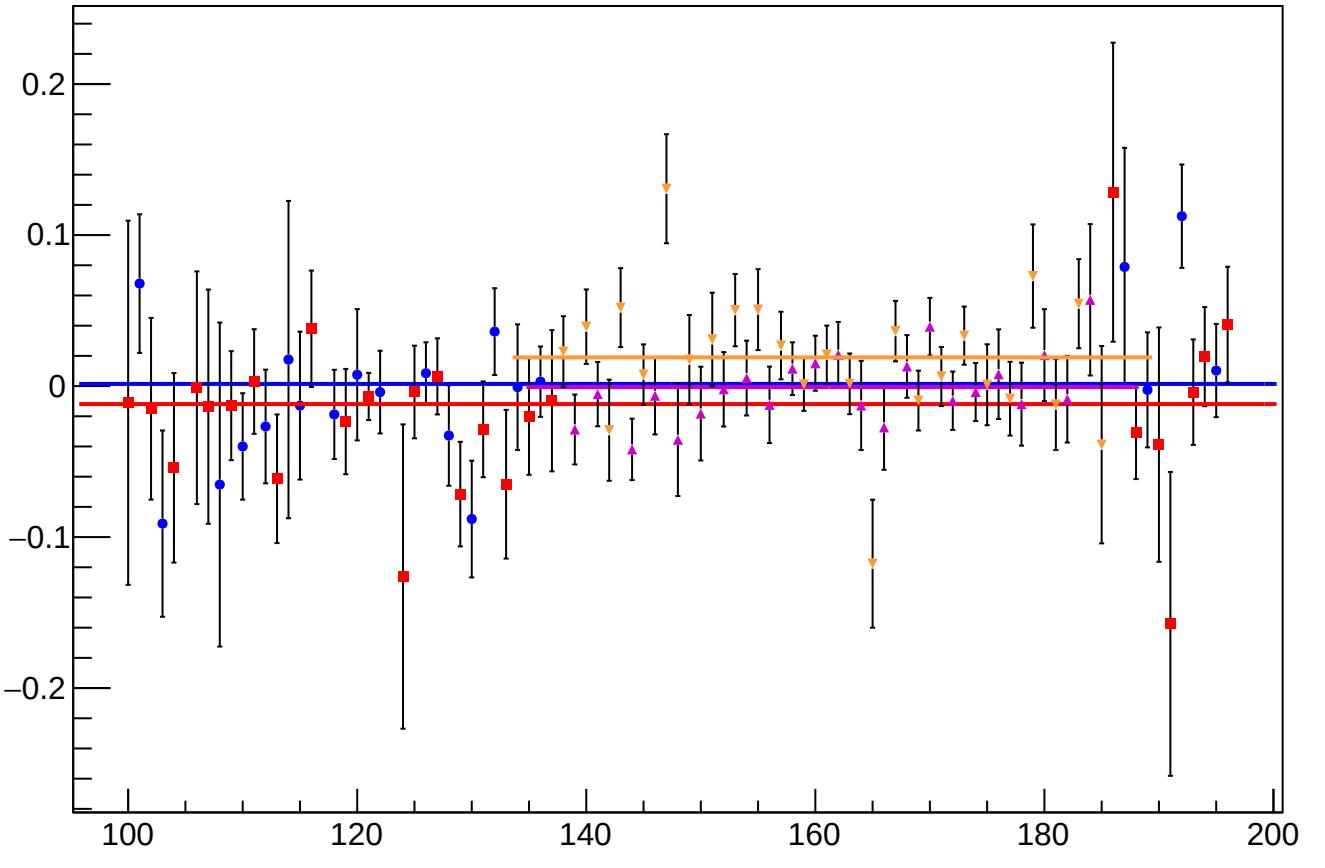
Left: 20.575+/-0.002 $\chi^2$/NDF: 2683801.2/47

Right: 22.441+/-0.004 $\chi^2$/NDF: 5528558.4/45

In: 21.051+/-0.003 $\chi^2$/NDF:3077573.7/42

Out: 21.196+/-0.003 $\chi^2$/NDF:5304463.0/50

All: 21.126+/-0.002 $\chi^2$/NDF: 8383285.2/93




Right In: 0.001+/-0.008 $\chi^2$/NDF: 26.9/19

Left Out: 0.019+/-0.005 $\chi^2$/NDF:41.2/24

Right Out: -0.012+/-0.007 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.005 $\chi^2$/NDF:17.7/22

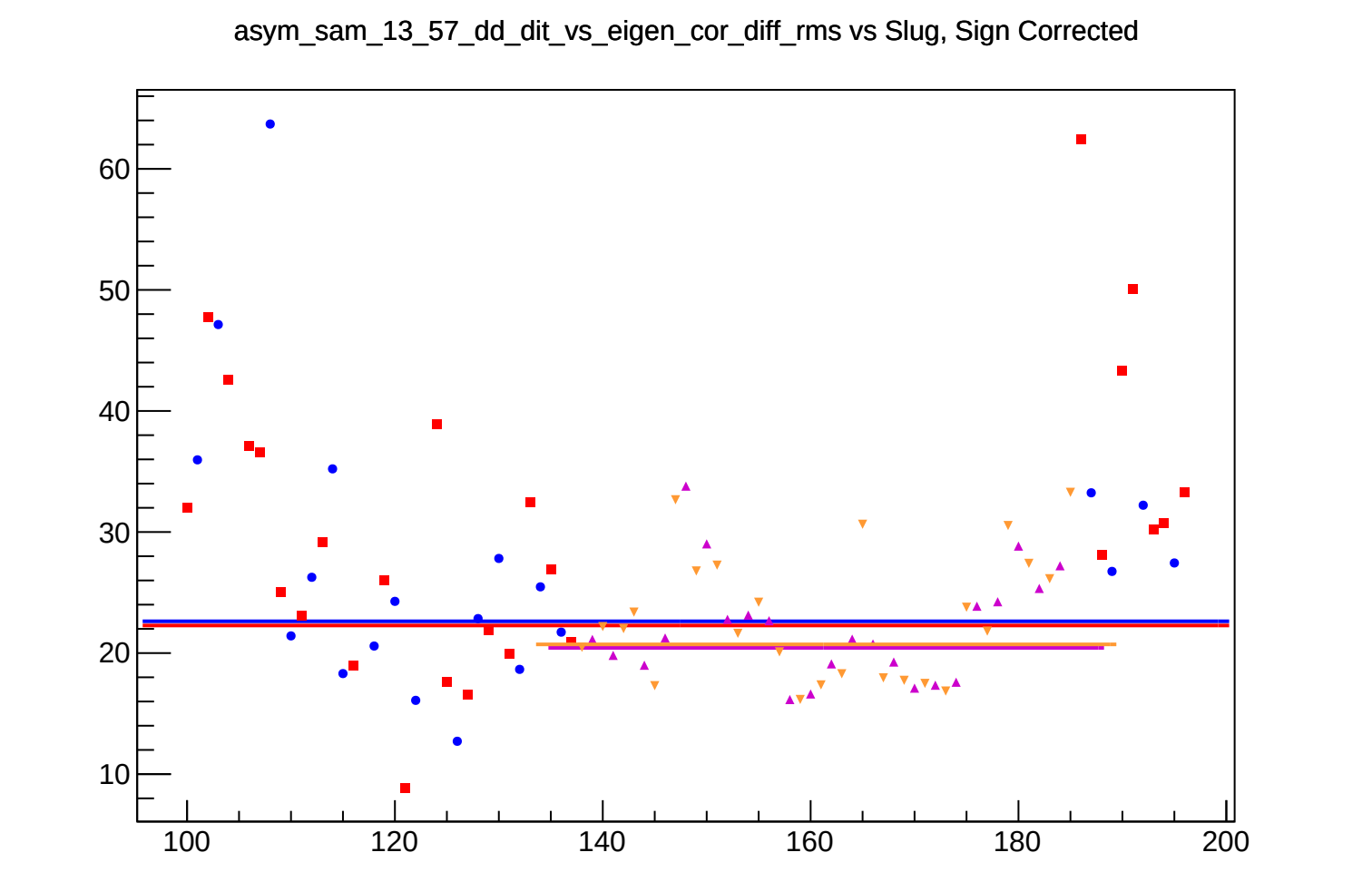
Left: 0.009+/-0.003 $\chi^2$/NDF: 66.9/47

Right: -0.006+/-0.005 $\chi^2$/NDF: 46.1/45

In: -0.000+/-0.004 $\chi^2$/NDF:44.6/42

Out: 0.010+/-0.004 $\chi^2$/NDF:71.1/50

All: 0.005+/-0.003 $\chi^2$/NDF: 118.5/93




Right In: 22.627+/-0.006 $\chi^2$/NDF: 1791404.3/19

Left Out: 20.718+/-0.003 $\chi^2$/NDF:1506374.1/24

Right Out: 22.280+/-0.005 $\chi^2$/NDF: 3735073.1/25

Left In: 20.429+/-0.003 $\chi^2$/NDF:1173949.1/22

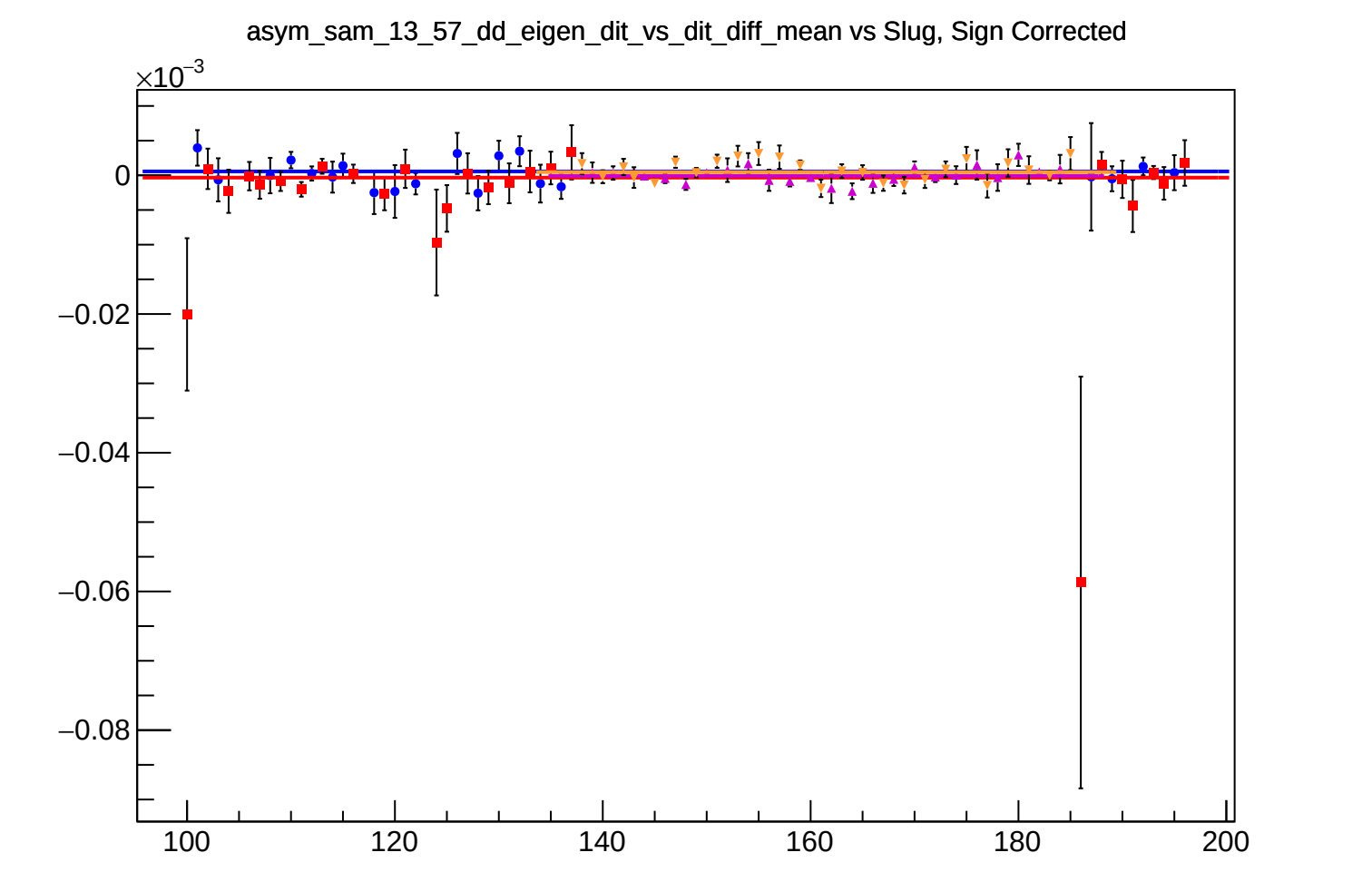
Left: 20.575+/-0.002 $\chi^2$/NDF: 2683801.2/47

Right: 22.441+/-0.004 $\chi^2$/NDF: 5528558.4/45

In: 21.051+/-0.003 $\chi^2$/NDF:3077573.7/42

Out: 21.196+/-0.003 $\chi^2$/NDF:5304463.0/50

All: 21.126+/-0.002 $\chi^2$/NDF: 8383285.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:36.7/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.7/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 59.9/47

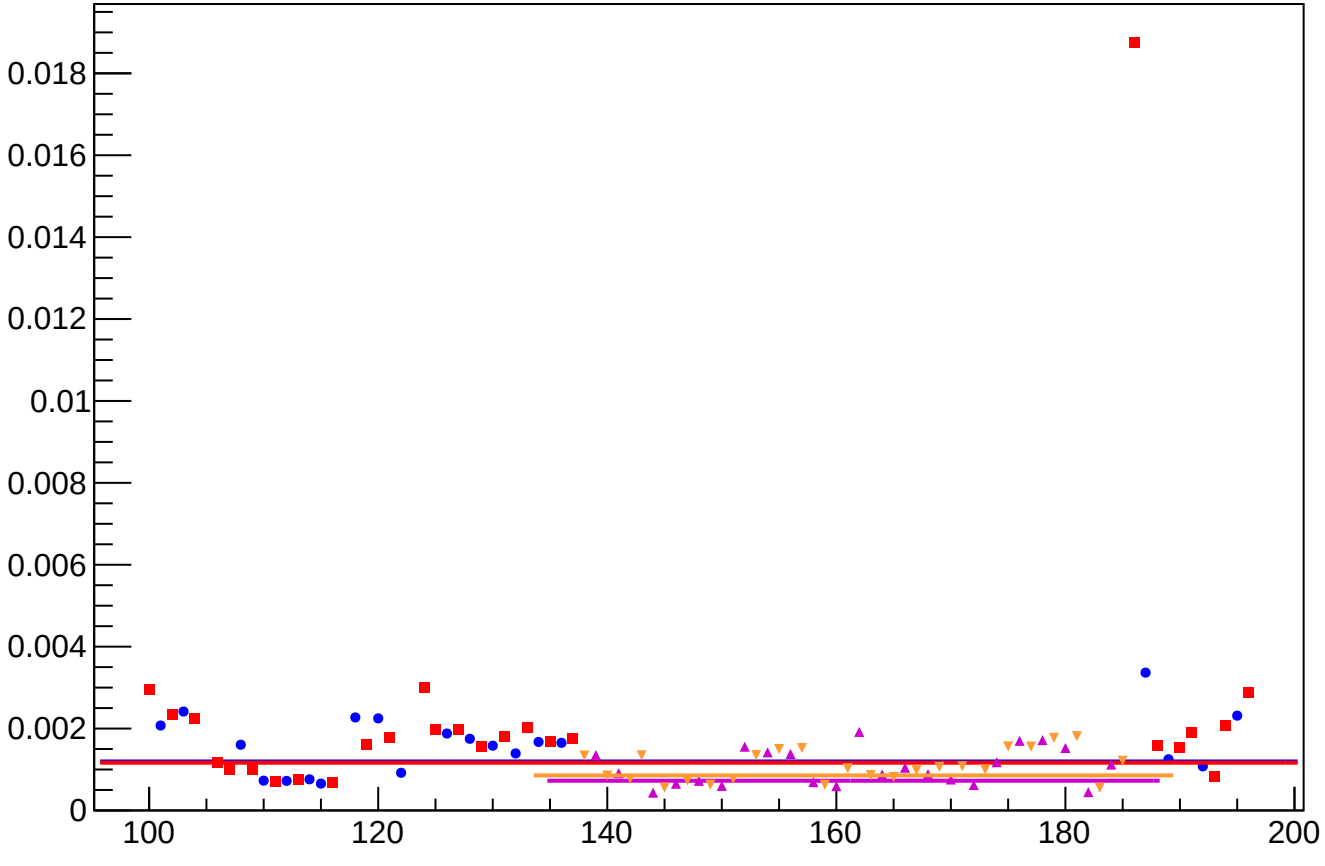
Right: 0.000+/-0.000 $\chi^2$/NDF: 40.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:36.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:62.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 100.3/93

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 3113361.9/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:4439075.2/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 4662604.7/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:5805288.5/22

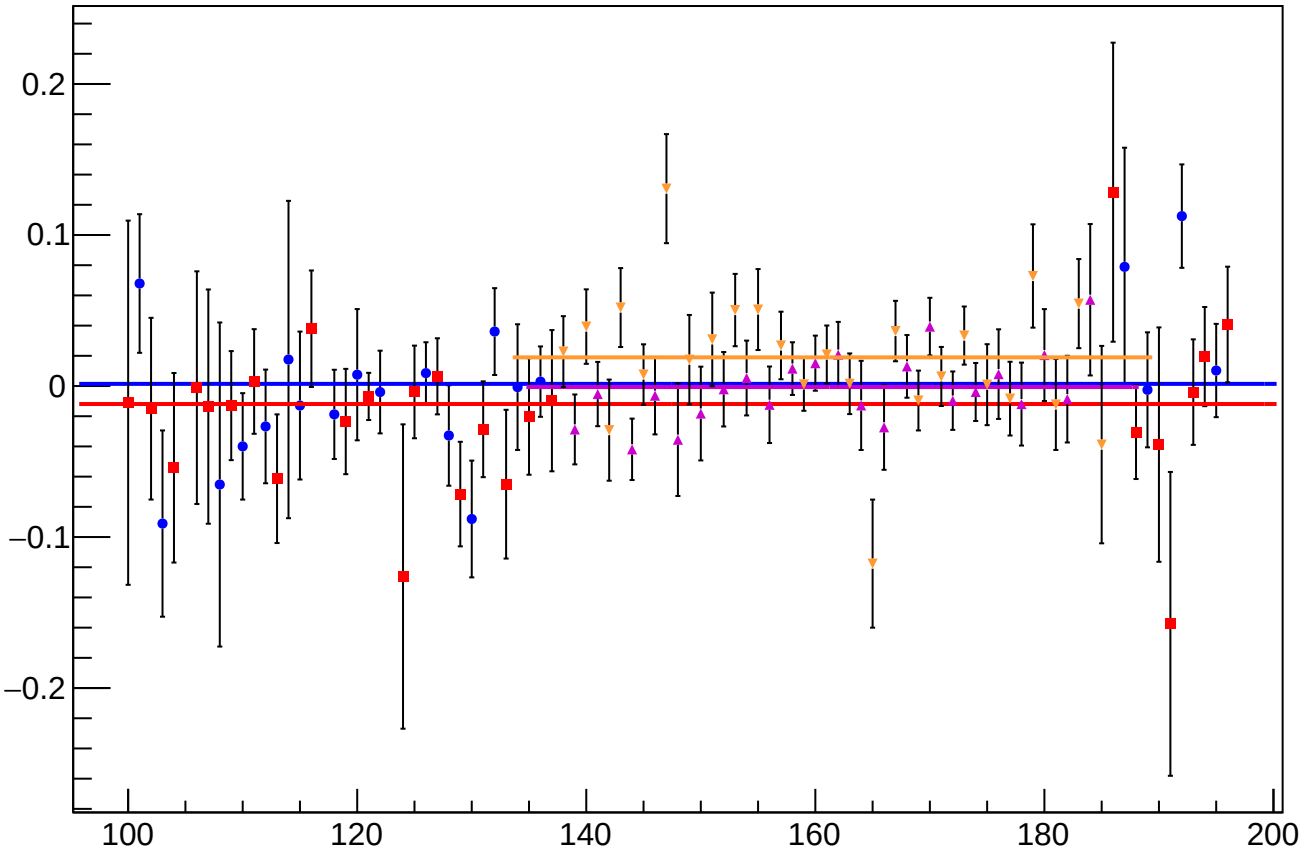
Left: 0.001+/-0.000 $\chi^2$/NDF: 10673329.7/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 7781351.8/45

In: 0.001+/-0.000 $\chi^2$/NDF:10947072.3/42

Out: 0.001+/-0.000 $\chi^2$/NDF:10086700.2/50

All: 0.001+/-0.000 $\chi^2$/NDF: 21533006.0/93




Right In: 0.001+/-0.008 $\chi^2$/NDF: 26.9/19

Left Out: 0.019+/-0.005 $\chi^2$/NDF:41.2/24

Right Out: -0.012+/-0.007 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.005 $\chi^2$/NDF:17.7/22

Left: 0.009+/-0.003 $\chi^2$/NDF: 66.9/47

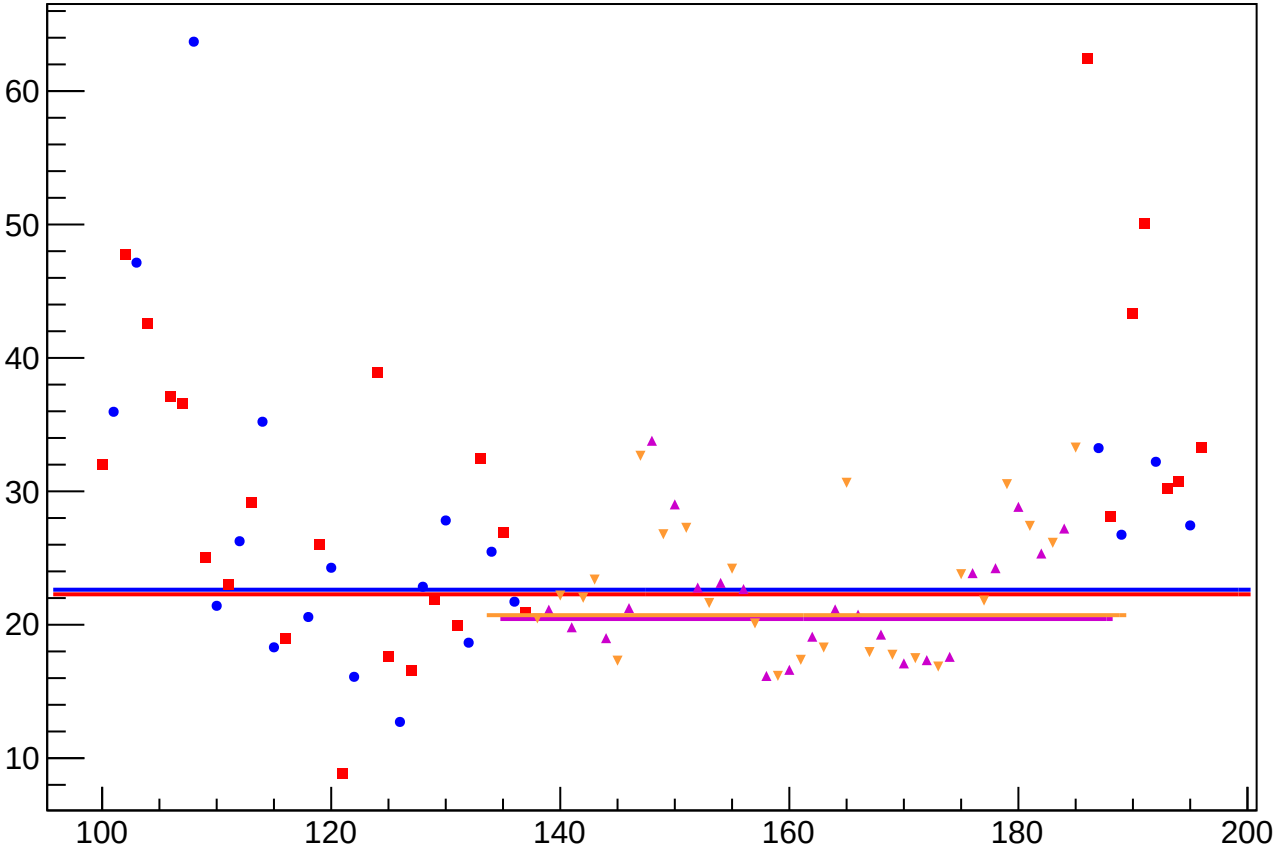
Right: -0.006+/-0.005 $\chi^2$/NDF: 46.1/45

In: -0.000+/-0.004 $\chi^2$/NDF:44.6/42

Out: 0.010+/-0.004 $\chi^2$/NDF:71.1/50

All: 0.005+/-0.003 $\chi^2$/NDF: 118.5/93

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 22.627+/-0.006 $\chi^2$/NDF: 1791247.6/19

Left Out: 20.718+/-0.003 $\chi^2$/NDF:1506475.9/24

Right Out: 22.281+/-0.005 $\chi^2$/NDF: 3734553.9/25

Left In: 20.429+/-0.003 $\chi^2$/NDF:1173995.4/22

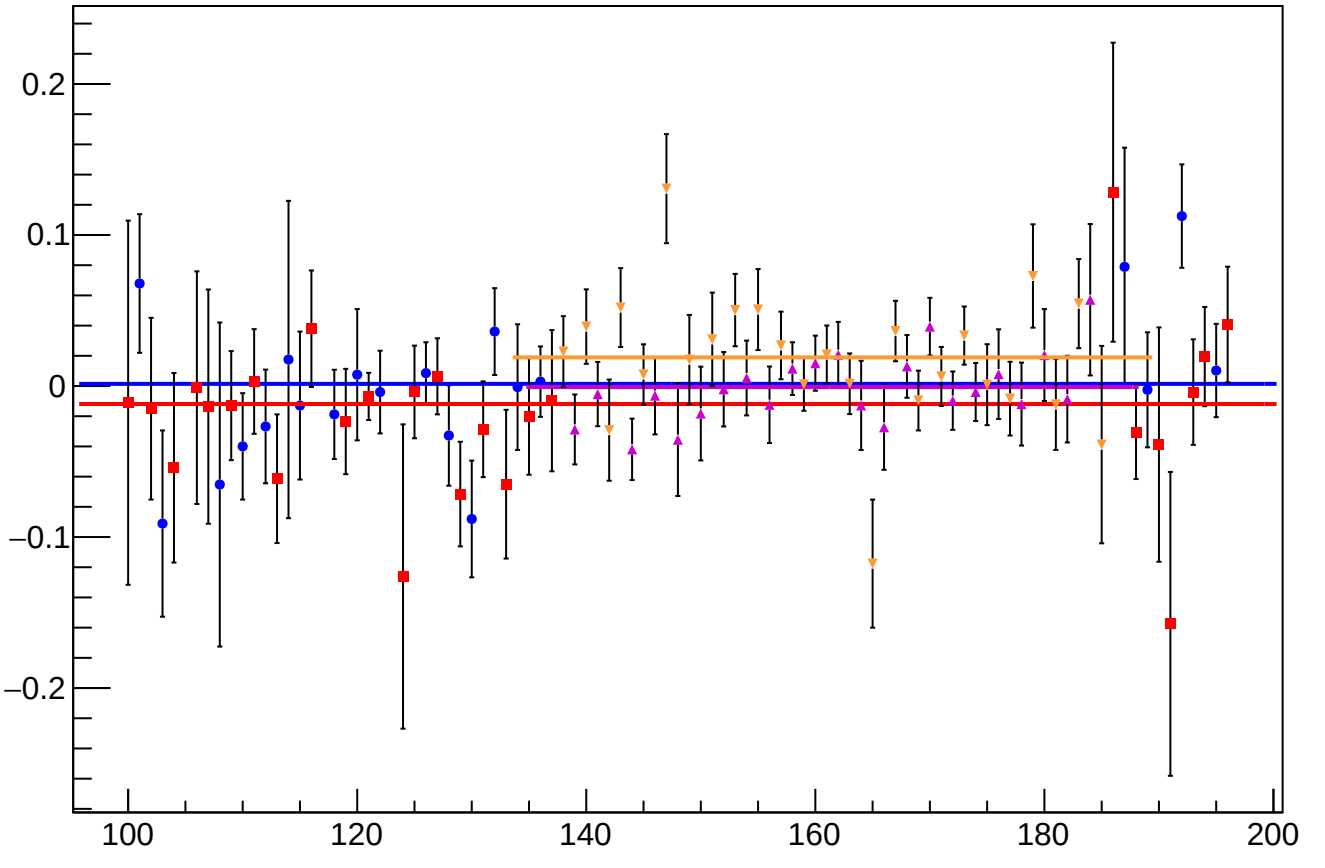
Left: 20.575+/-0.002 $\chi^2$/NDF: 2683947.4/47

Right: 22.442+/-0.004 $\chi^2$/NDF: 5527879.2/45

In: 21.051+/-0.003 $\chi^2$/NDF:3077491.7/42

Out: 21.197+/-0.003 $\chi^2$/NDF:5304096.5/50

All: 21.126+/-0.002 $\chi^2$/NDF: 8382837.3/93




Right In: 0.001+/-0.008 $\chi^2$/NDF: 26.9/19

Left Out: 0.019+/-0.005 $\chi^2$/NDF:41.2/24

Right Out: -0.012+/-0.007 $\chi^2$/NDF: 17.7/25

Left In: -0.001+/-0.005 $\chi^2$/NDF:17.7/22

Left: 0.009+/-0.003 $\chi^2$/NDF: 66.9/47

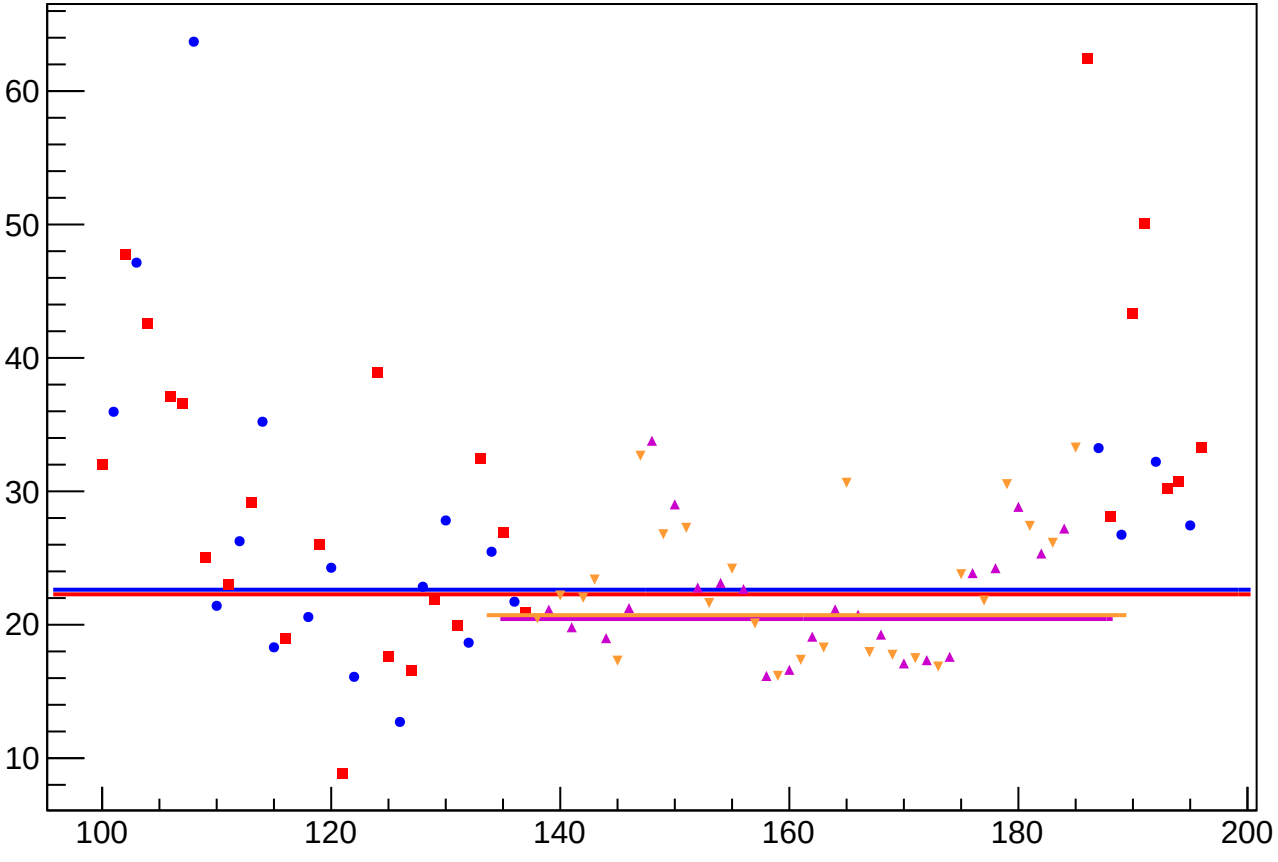
Right: -0.006+/-0.005 $\chi^2$/NDF: 46.1/45

In: -0.000+/-0.004 $\chi^2$/NDF:44.6/42

Out: 0.010+/-0.004 $\chi^2$/NDF:71.1/50

All: 0.005+/-0.003 $\chi^2$/NDF: 118.5/93

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 22.627+/-0.006 $\chi^2$/NDF: 1791247.6/19

Left Out: 20.718+/-0.003 $\chi^2$/NDF:1506475.9/24

Right Out: 22.281+/-0.005 $\chi^2$/NDF: 3734553.9/25

Left In: 20.429+/-0.003 $\chi^2$/NDF:1173995.4/22

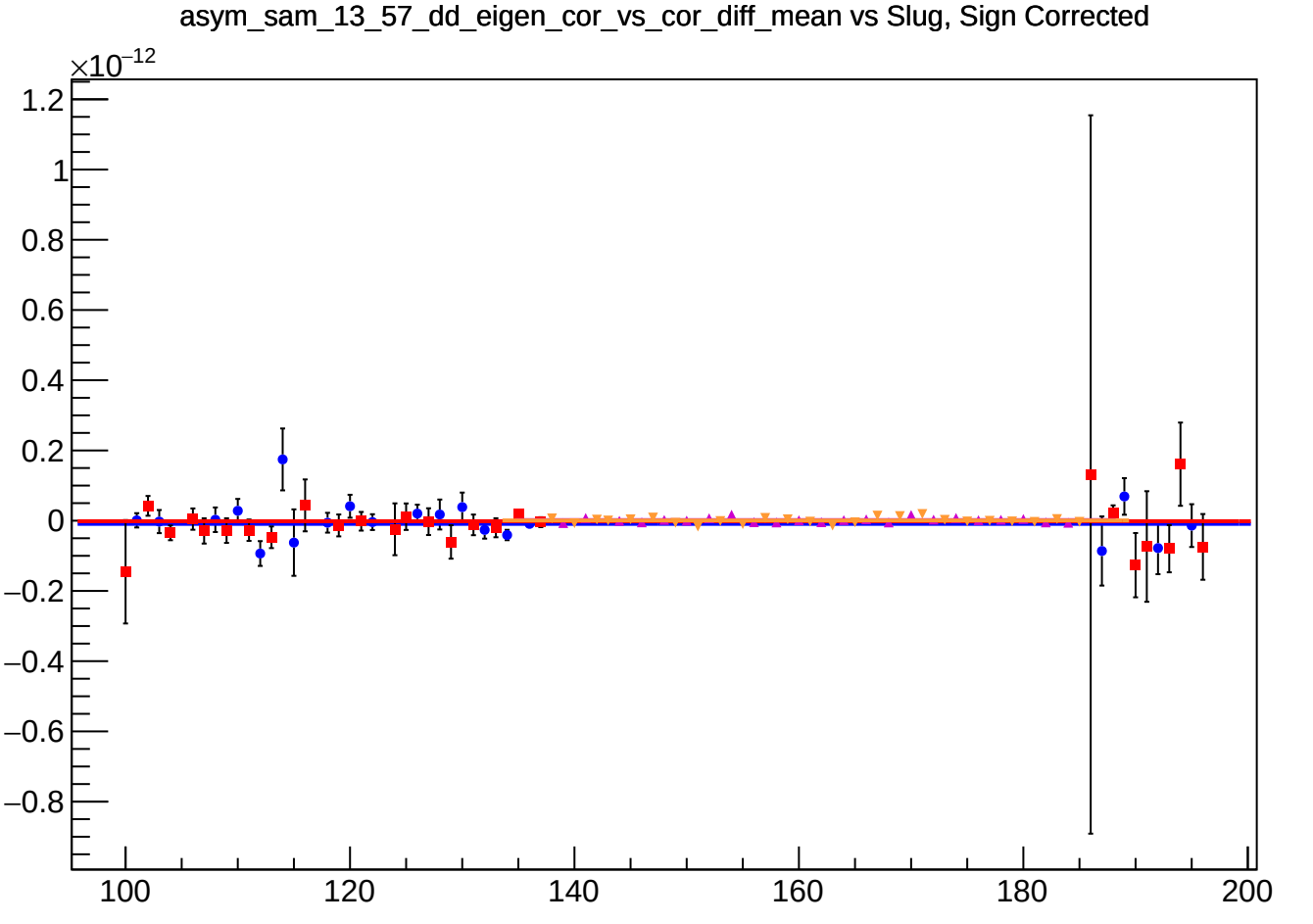
Left: 20.575+/-0.002 $\chi^2$/NDF: 2683947.4/47

Right: 22.442+/-0.004 $\chi^2$/NDF: 5527879.2/45

In: 21.051+/-0.003 $\chi^2$/NDF:3077491.7/42

Out: 21.197+/-0.003 $\chi^2$/NDF:5304096.5/50

All: 21.126+/-0.002 $\chi^2$/NDF: 8382837.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 26.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:29.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 23.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.6/22

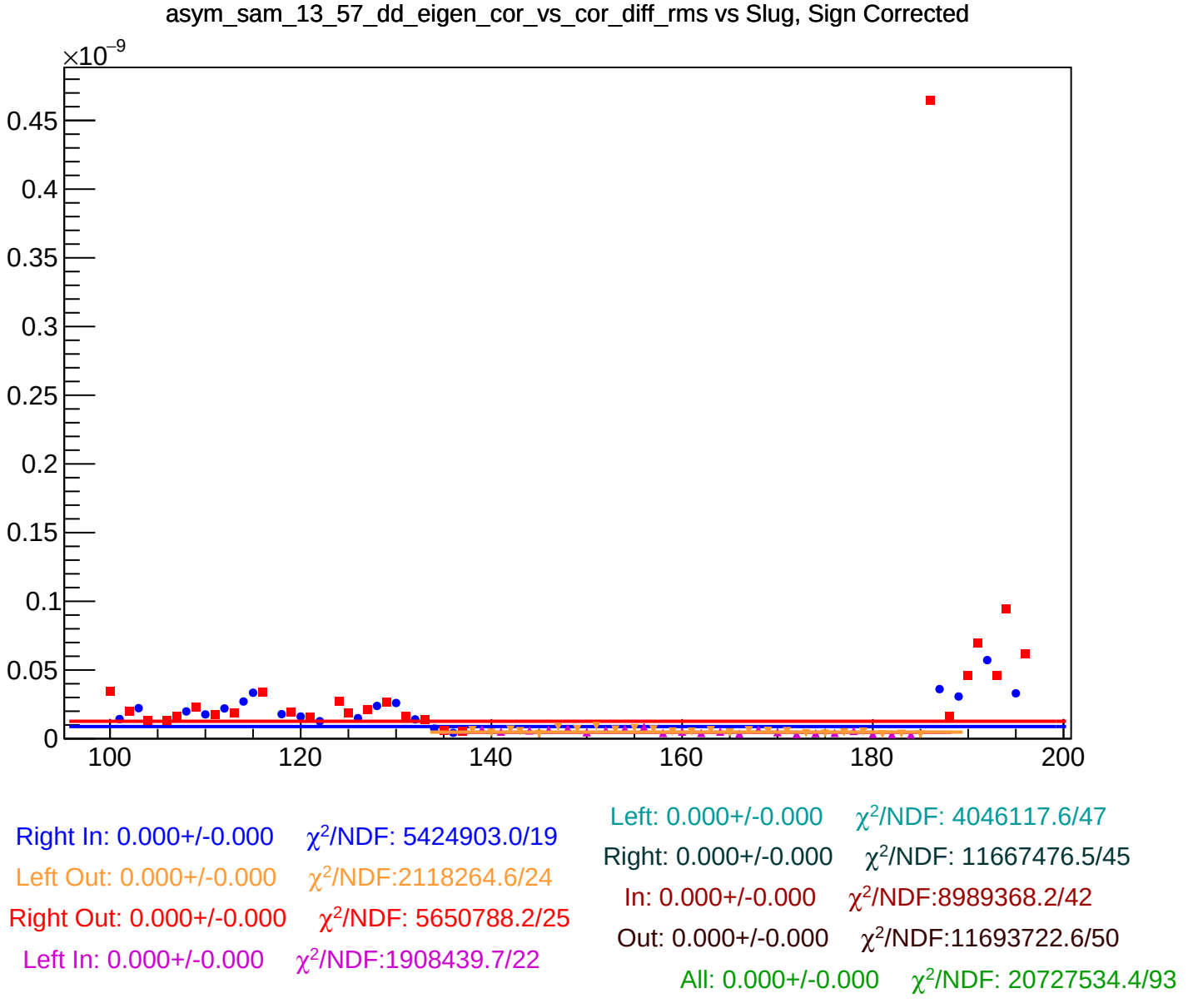
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.9/47

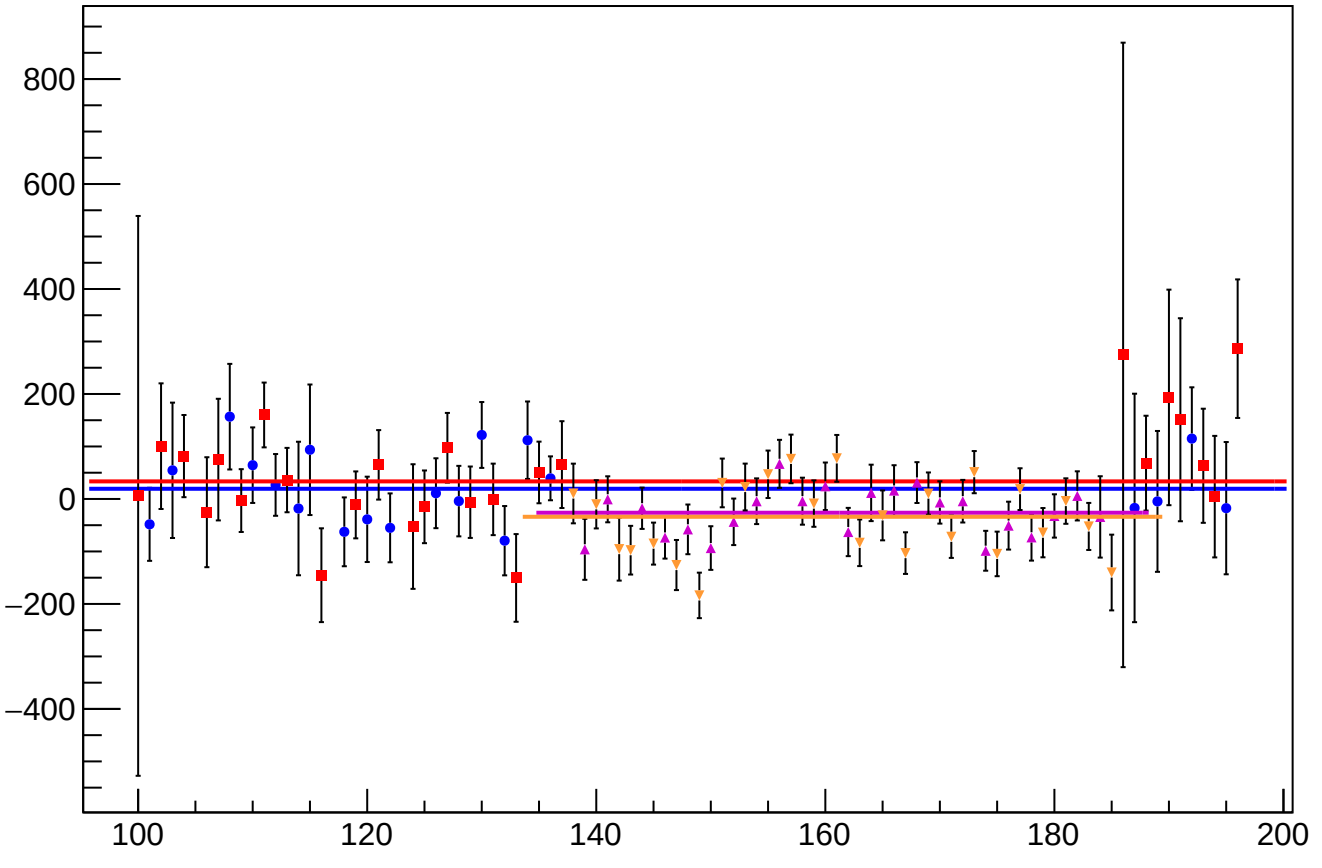
Right: -0.000+/-0.000 $\chi^2$/NDF: 51.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:52.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:53.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 105.1/93


asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5424903.0/19
Left Out: 0.000+/-0.000 χ²/NDF:2118264.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 5650788.2/25
Left In: 0.000+/-0.000 χ²/NDF:1908439.7/22
Left: 0.000+/-0.000 χ²/NDF: 4046117.6/47
Right: 0.000+/-0.000 χ²/NDF: 11667476.5/45
In: 0.000+/-0.000 χ²/NDF:8989368.2/42
Out: 0.000+/-0.000 χ²/NDF:11693722.6/50
All: 0.000+/-0.000 χ²/NDF: 20727534.4/93




Right In: 19.403+/-16.853 $\chi^2$/NDF: 15.1/19

Left Out: -33.956+/-8.993 $\chi^2$/NDF:58.7/24

Right Out: 33.476+/-16.397 $\chi^2$/NDF: 23.2/25

Left In: -26.267+/-9.271 $\chi^2$/NDF:22.5/22

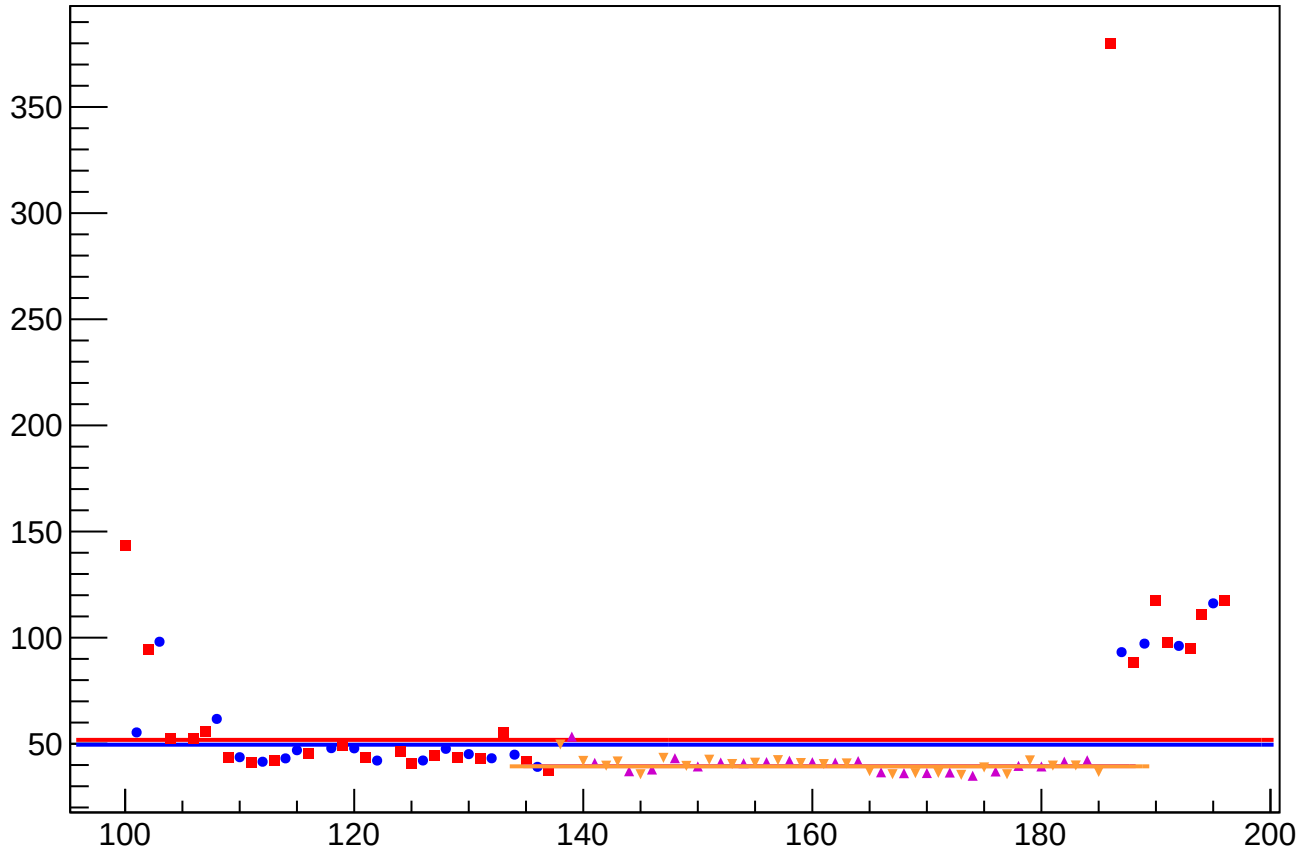
Left: -30.228+/-6.455 $\chi^2$/NDF: 81.6/47

Right: 26.633+/-11.752 $\chi^2$/NDF: 38.6/45

In: -15.656+/-8.123 $\chi^2$/NDF:43.2/42

Out: -18.361+/-7.885 $\chi^2$/NDF:94.9/50

All: -17.049+/-5.658 $\chi^2$/NDF: 138.1/93




Right In: 49.582+/-0.012 $\chi^2$/NDF: 1943179.1/19

Left Out: 39.383+/-0.006 $\chi^2$/NDF:228799.9/24

Right Out: 51.849+/-0.012 $\chi^2$/NDF: 3354155.1/25

Left In: 39.491+/-0.007 $\chi^2$/NDF:251801.8/22

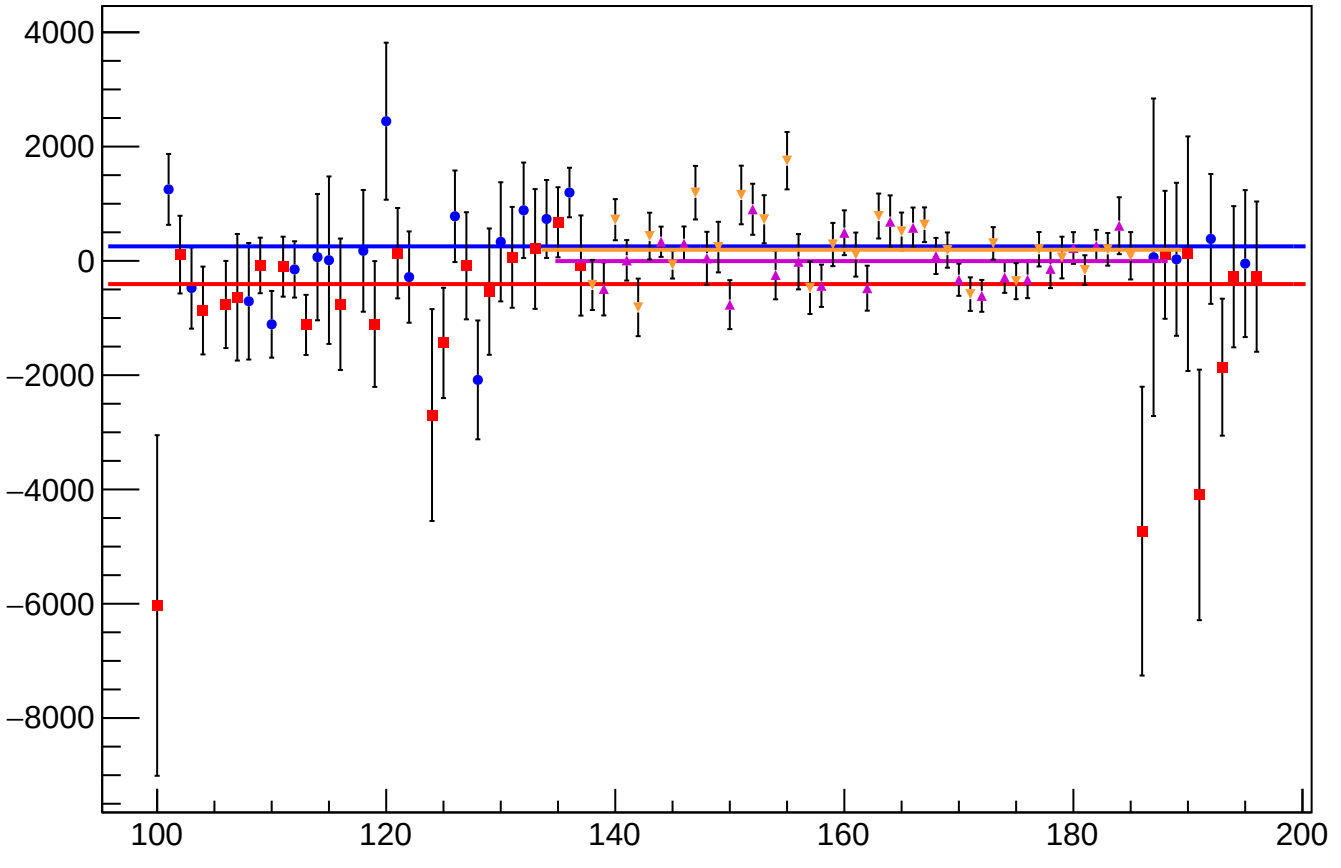
Left: 39.435+/-0.005 $\chi^2$/NDF: 480742.3/47

Right: 50.747+/-0.008 $\chi^2$/NDF: 5315921.6/45

In: 41.835+/-0.006 $\chi^2$/NDF:2745481.2/42

Out: 42.266+/-0.006 $\chi^2$/NDF:4471714.6/50

All: 42.057+/-0.004 $\chi^2$/NDF: 7220083.7/93




Right In: 253.964+/-178.976 $\chi^2$/NDF: 25.1/19

Left Out: 195.029+/-70.093 $\chi^2$/NDF:48.6/24

Right Out: -406.215+/-171.596 $\chi^2$/NDF: 22.6/25

Left In: -4.015+/-71.981 $\chi^2$/NDF:32.4/22

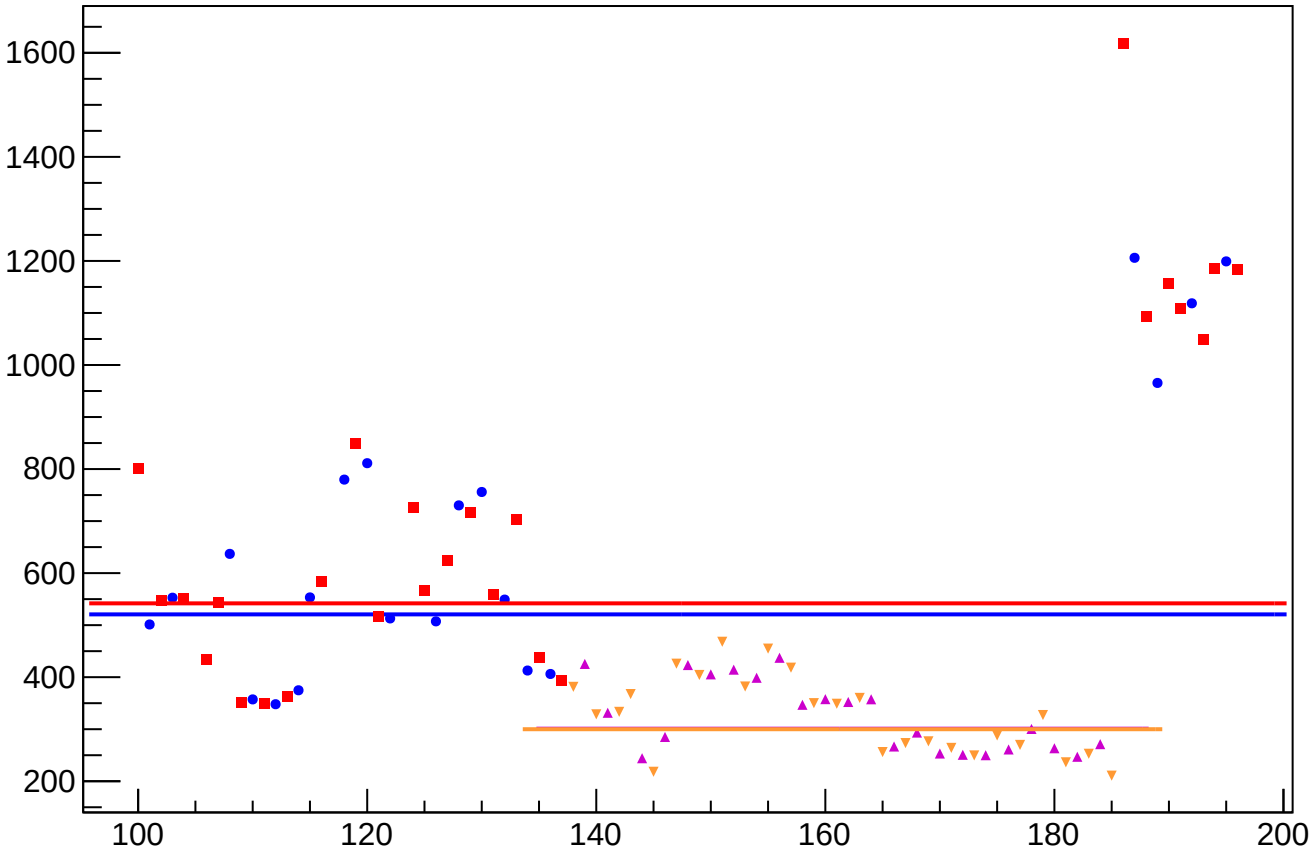
Left: 98.152+/-50.217 $\chi^2$/NDF: 84.9/47

Right: -90.016+/-123.863 $\chi^2$/NDF: 54.7/45

In: 31.904+/-66.782 $\chi^2$/NDF:59.2/42

Out: 109.055+/-64.888 $\chi^2$/NDF:81.7/50

All: 71.589+/-46.538 $\chi^2$/NDF: 141.6/93




Right In: 520.695+/-0.127 $\chi^2$/NDF: 2506162.0/19

Left Out: 299.976+/-0.050 $\chi^2$/NDF:1808461.5/24

Right Out: 541.888+/-0.121 $\chi^2$/NDF: 3811391.7/25

Left In: 301.000+/-0.051 $\chi^2$/NDF:1407198.4/22

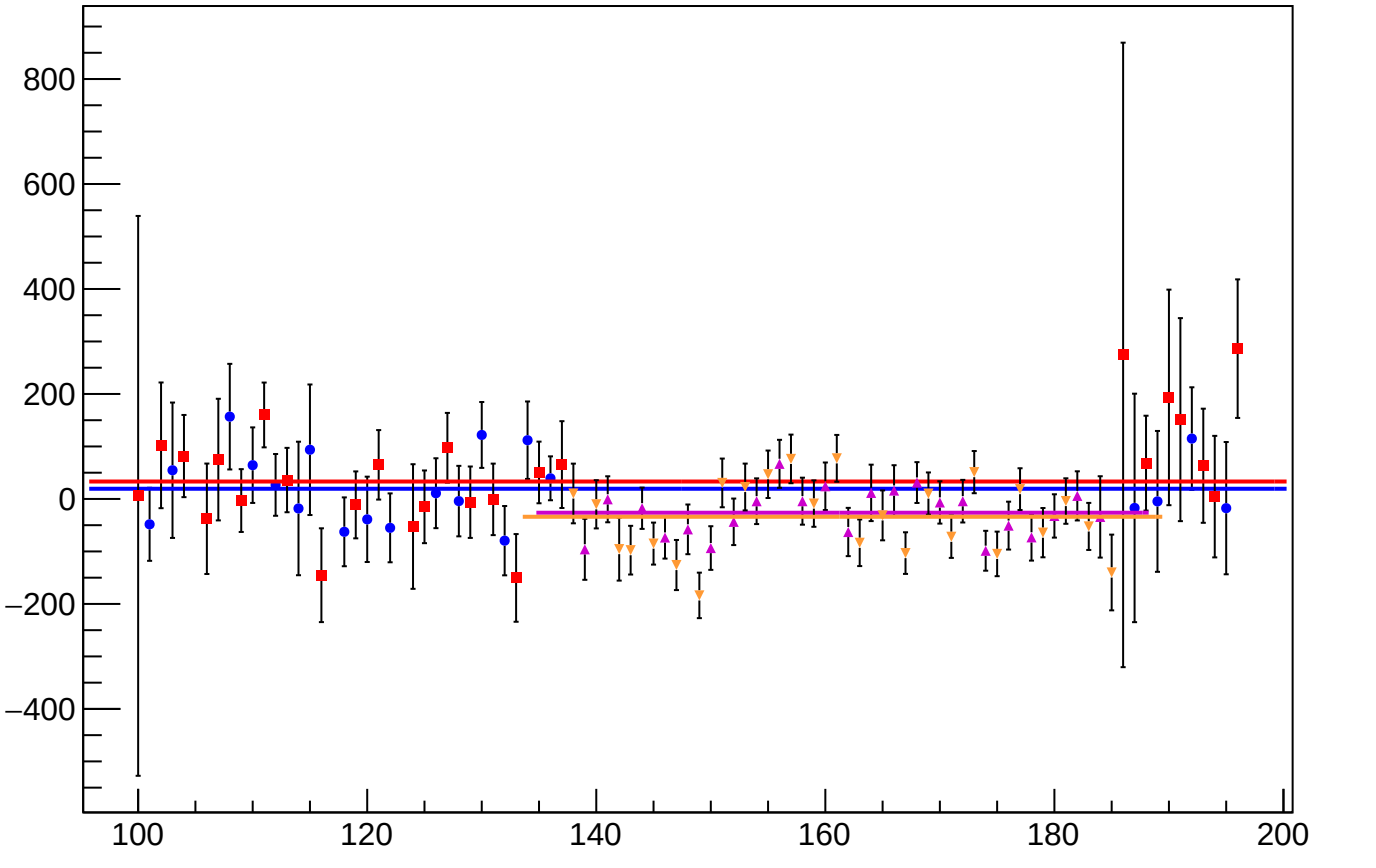
Left: 300.474+/-0.036 $\chi^2$/NDF: 3215867.3/47

Right: 531.738+/-0.088 $\chi^2$/NDF: 6332166.2/45

In: 331.588+/-0.047 $\chi^2$/NDF:6507364.4/42

Out: 334.568+/-0.046 $\chi^2$/NDF:9026406.3/50

All: 333.121+/-0.033 $\chi^2$/NDF: 15535819.8/93




Right In: 19.408+/-16.853 $\chi^2$/NDF: 15.1/19

Left Out: -33.955+/-8.993 $\chi^2$/NDF:58.7/24

Right Out: 33.216+/-16.399 $\chi^2$/NDF: 23.3/25

Left In: -26.267+/-9.271 $\chi^2$/NDF:22.5/22

Left: -30.228+/-6.455 $\chi^2$/NDF: 81.6/47

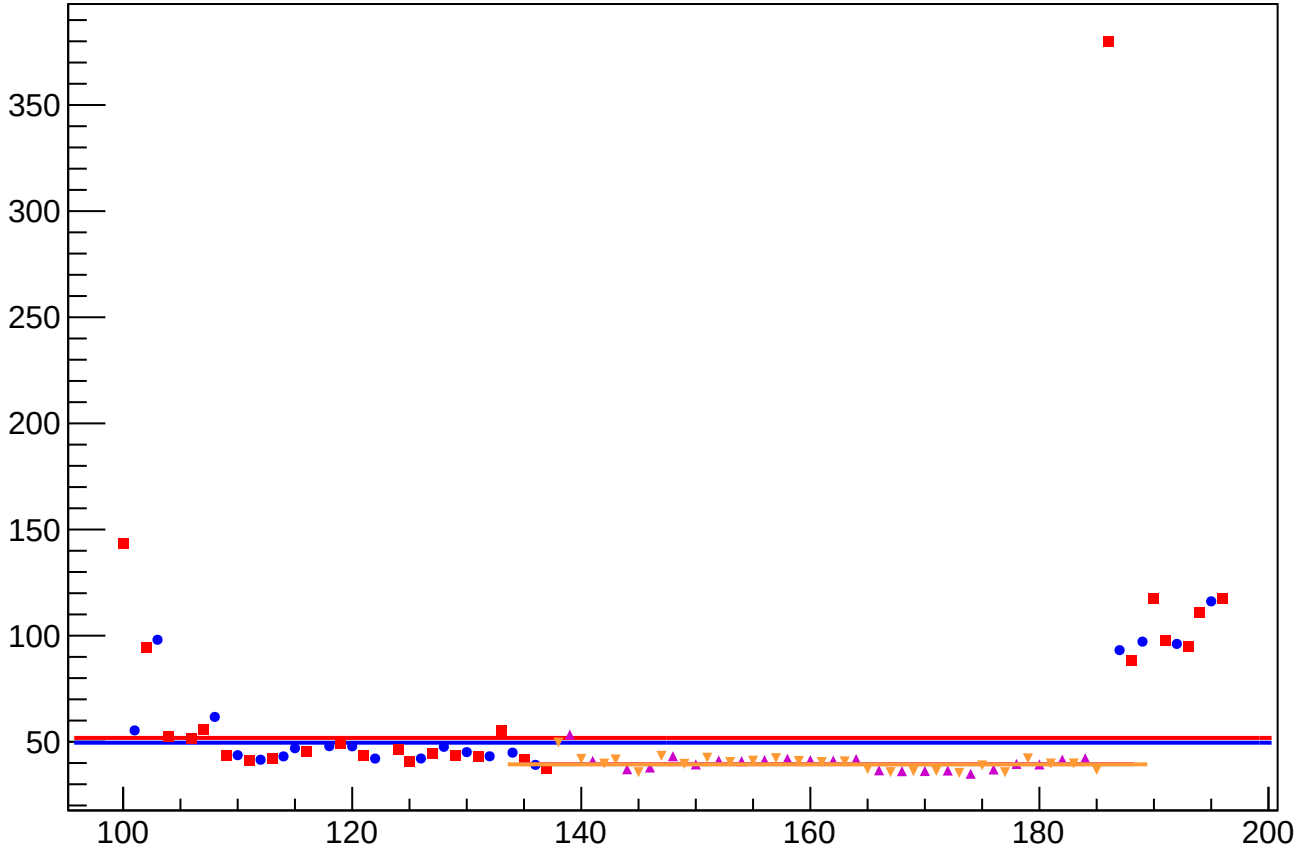
Right: 26.501+/-11.753 $\chi^2$/NDF: 38.7/45

In: -15.655+/-8.123 $\chi^2$/NDF:43.2/42

Out: -18.423+/-7.885 $\chi^2$/NDF:94.9/50

All: -17.080+/-5.658 $\chi^2$/NDF: 138.2/93

# cor_asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 49.582+/-0.012 $\chi^2$/NDF: 1943182.1/19

Left Out: 39.383+/-0.006 $\chi^2$/NDF:228799.9/24

Right Out: 51.829+/-0.012 $\chi^2$/NDF: 3354312.5/25

Left In: 39.491+/-0.007 $\chi^2$/NDF:251801.8/22

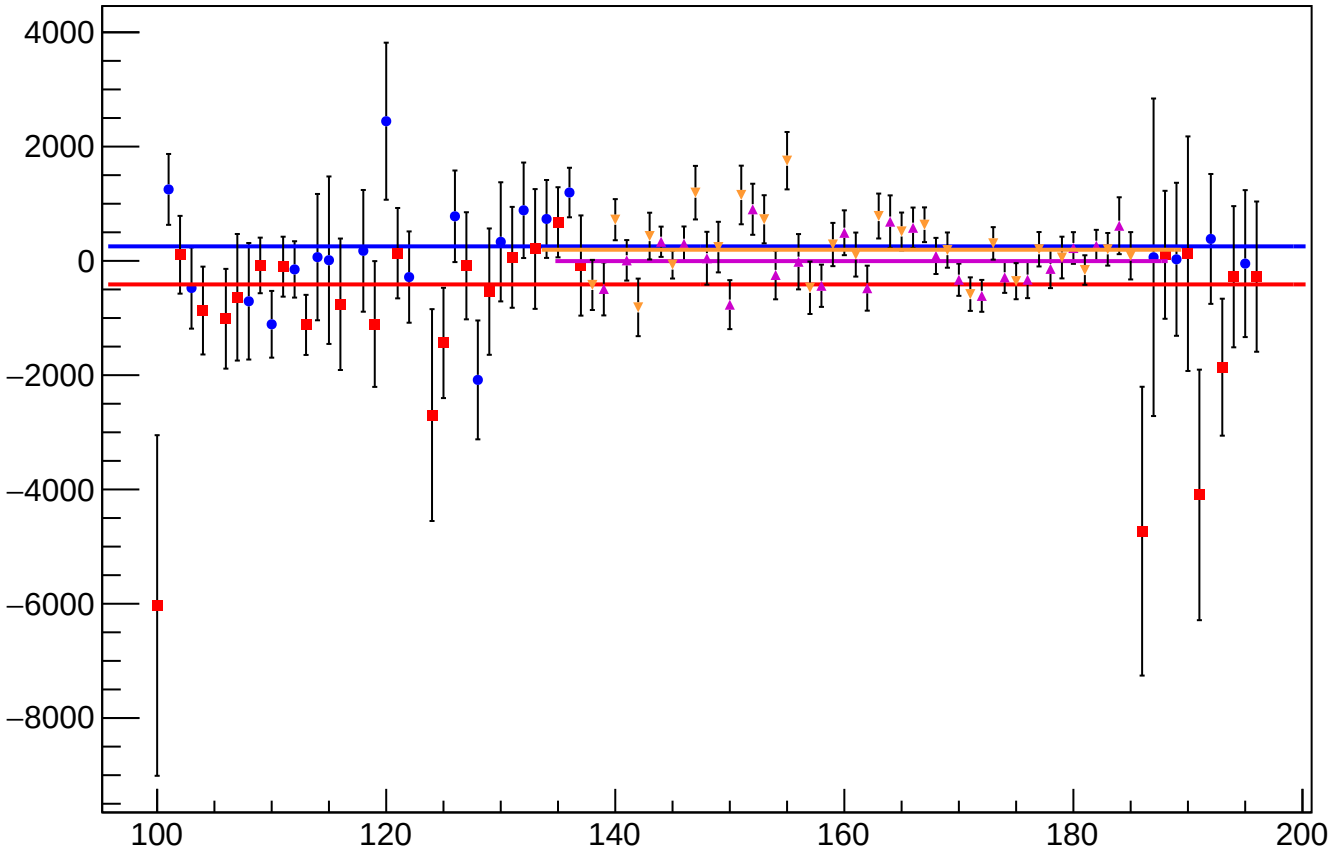
Left: 39.435+/-0.005 $\chi^2$/NDF: 480742.3/47

Right: 50.736+/-0.008 $\chi^2$/NDF: 5315754.3/45

In: 41.835+/-0.006 $\chi^2$/NDF:2745484.2/42

Out: 42.261+/-0.006 $\chi^2$/NDF:4468871.3/50

All: 42.054+/-0.004 $\chi^2$/NDF: 7217174.8/93




Right In: 253.968+/-178.977 $\chi^2$/NDF: 25.1/19

Left Out: 195.028+/-70.093 $\chi^2$/NDF:48.6/24

Right Out: -411.891+/-172.640 $\chi^2$/NDF: 22.8/25

Left In: -4.014+/-71.981 $\chi^2$/NDF:32.4/22

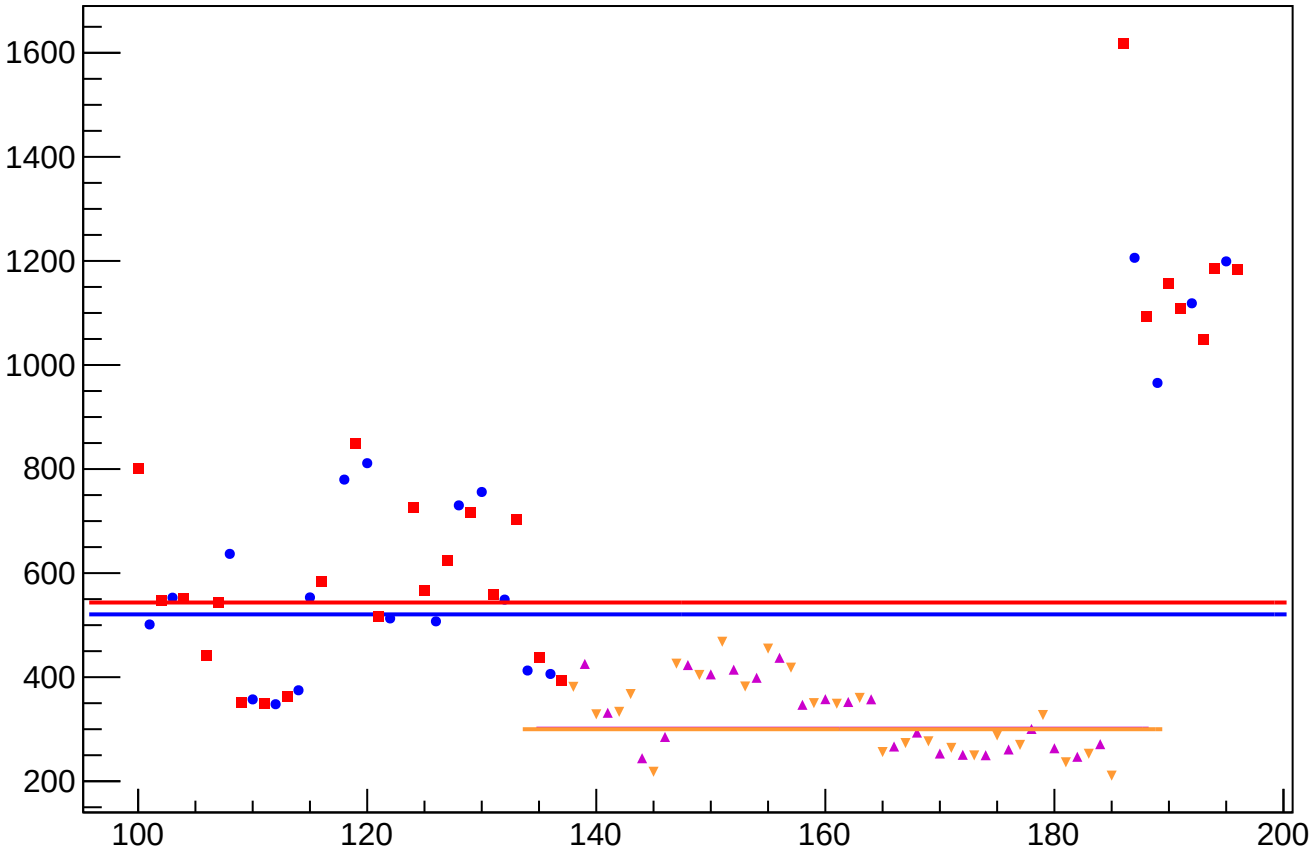
Left: 98.152+/-50.217 $\chi^2$/NDF: 84.9/47

Right: -90.957+/-124.255 $\chi^2$/NDF: 55.1/45

In: 31.904+/-66.782 $\chi^2$/NDF:59.2/42

Out: 109.142+/-64.944 $\chi^2$/NDF:82.0/50

All: 71.600+/-46.559 $\chi^2$/NDF: 141.9/93




Right In: 520.697+/-0.127 $\chi^2$/NDF: 2506179.0/19

Left Out: 299.976+/-0.050 $\chi^2$/NDF:1808454.4/24

Right Out: 543.505+/-0.122 $\chi^2$/NDF: 3797807.1/25

Left In: 300.999+/-0.051 $\chi^2$/NDF:1407206.0/22

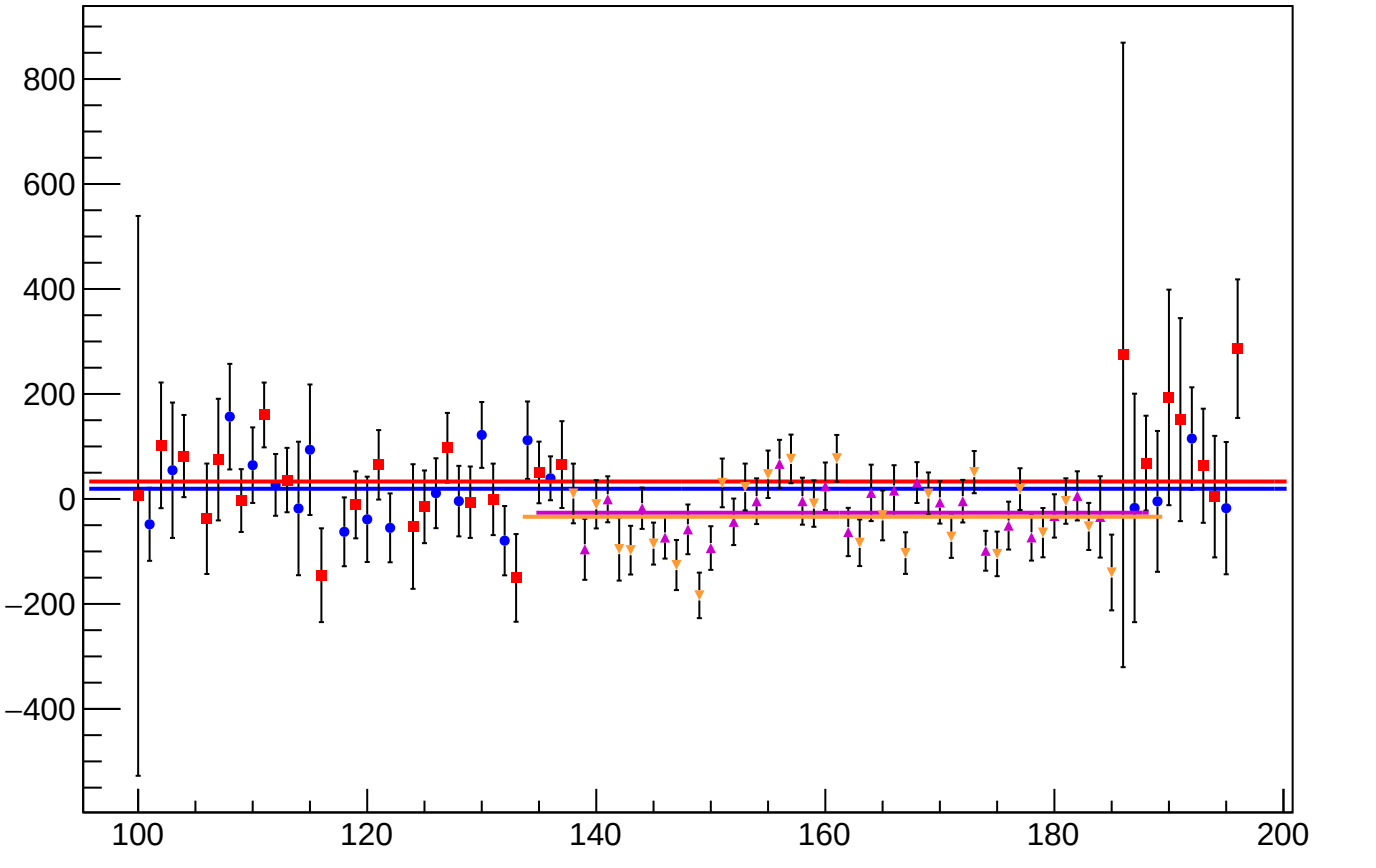
Left: 300.474+/-0.036 $\chi^2$/NDF: 3215867.7/47

Right: 532.512+/-0.088 $\chi^2$/NDF: 6320810.2/45

In: 331.588+/-0.047 $\chi^2$/NDF:6507426.1/42

Out: 334.439+/-0.046 $\chi^2$/NDF:9022729.7/50

All: 333.053+/-0.033 $\chi^2$/NDF: 15532029.1/93




Right In: 19.408+/-16.853 $\chi^2$/NDF: 15.1/19

Left Out: -33.955+/-8.993 $\chi^2$/NDF:58.7/24

Right Out: 33.216+/-16.399 $\chi^2$/NDF: 23.3/25

Left In: -26.267+/-9.271 $\chi^2$/NDF:22.5/22

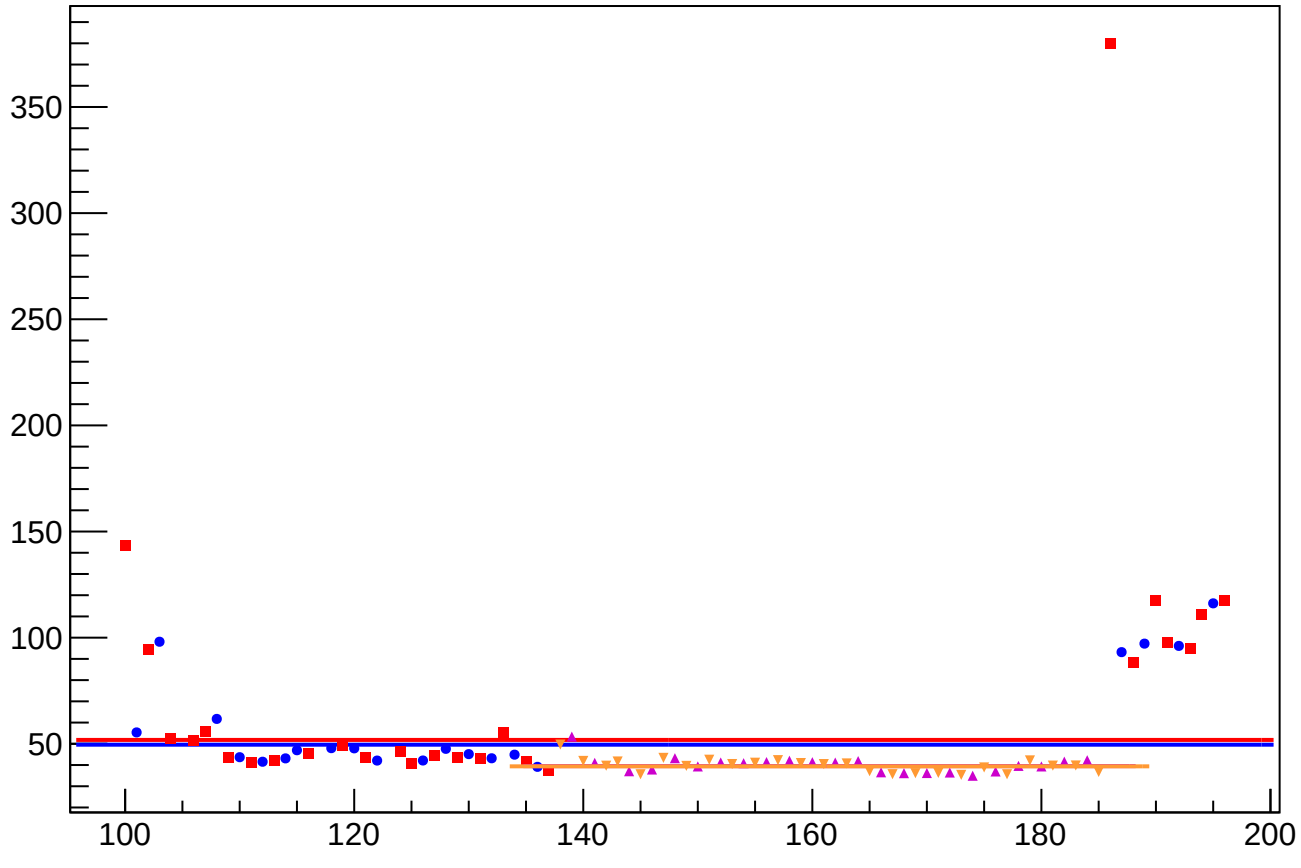
Left: -30.228+/-6.455 $\chi^2$/NDF: 81.6/47

Right: 26.501+/-11.753 $\chi^2$/NDF: 38.7/45

In: -15.655+/-8.123 $\chi^2$/NDF:43.2/42

Out: -18.423+/-7.885 $\chi^2$/NDF:94.9/50

All: -17.080+/-5.658 $\chi^2$/NDF: 138.2/93




Right In: 49.582+/-0.012 $\chi^2$/NDF: 1943182.1/19

Left Out: 39.383+/-0.006 $\chi^2$/NDF:228799.9/24

Right Out: 51.829+/-0.012 $\chi^2$/NDF: 3354312.5/25

Left In: 39.491+/-0.007 $\chi^2$/NDF:251801.8/22

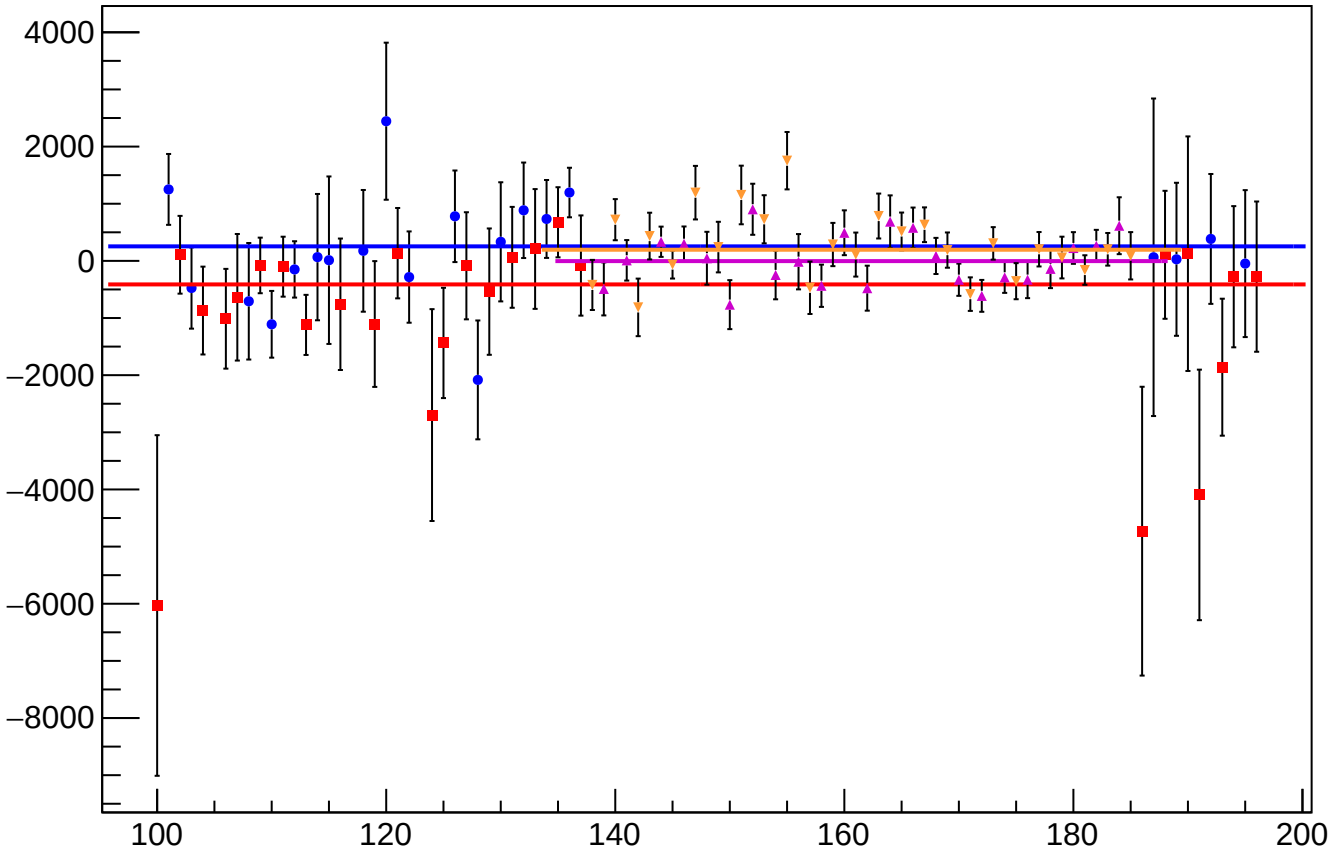
Left: 39.435+/-0.005 $\chi^2$/NDF: 480742.3/47

Right: 50.736+/-0.008 $\chi^2$/NDF: 5315754.3/45

In: 41.835+/-0.006 $\chi^2$/NDF:2745484.2/42

Out: 42.261+/-0.006 $\chi^2$/NDF:4468871.3/50

All: 42.054+/-0.004 $\chi^2$/NDF: 7217174.8/93




Right In: 253.968+/-178.977 $\chi^2$/NDF: 25.1/19

Left Out: 195.028+/-70.093 $\chi^2$/NDF:48.6/24

Right Out: -411.891+/-172.640 $\chi^2$/NDF: 22.8/25

Left In: -4.014+/-71.981 $\chi^2$/NDF:32.4/22

Left: 98.152+/-50.217 $\chi^2$/NDF: 84.9/47

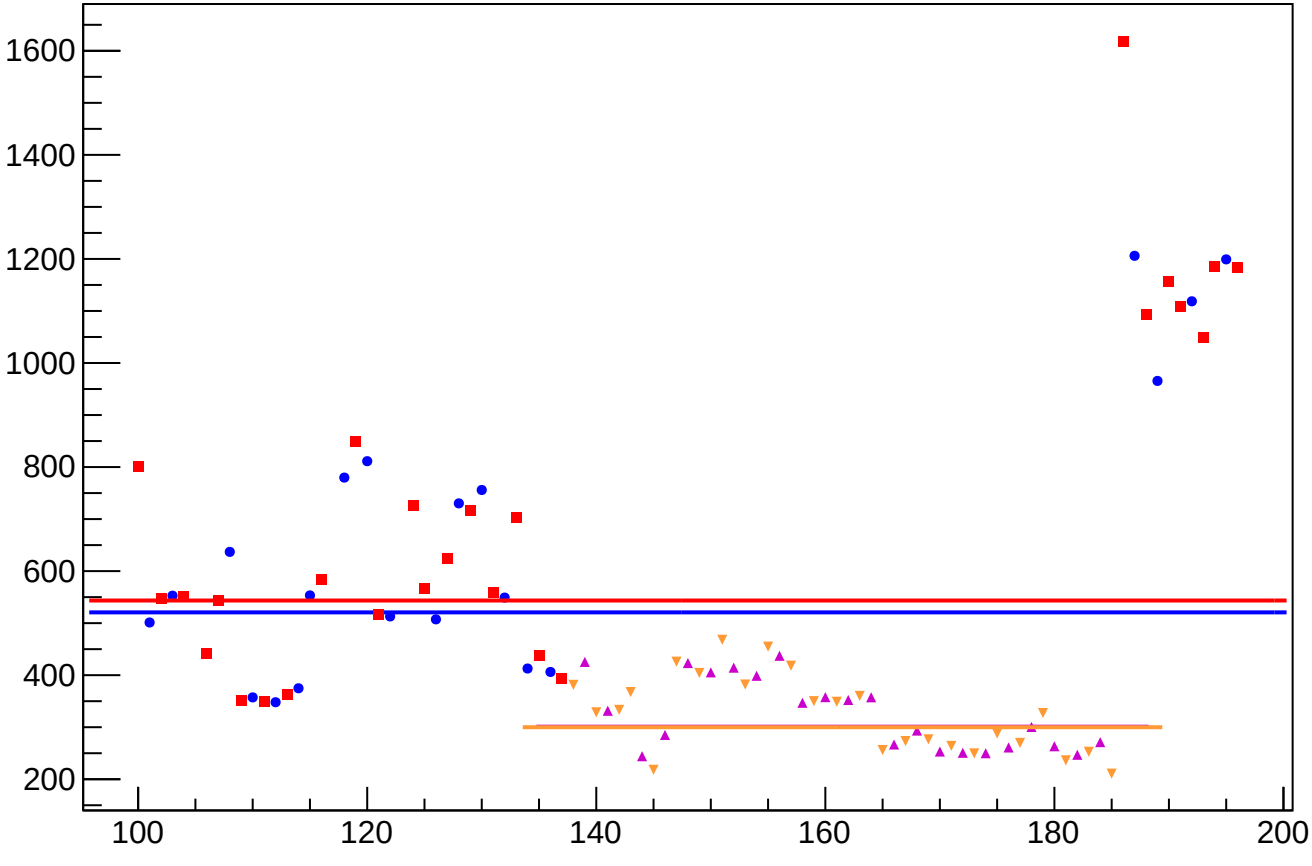
Right: -90.957+/-124.255 $\chi^2$/NDF: 55.1/45

In: 31.904+/-66.782 $\chi^2$/NDF:59.2/42

Out: 109.142+/-64.944 $\chi^2$/NDF:82.0/50

All: 71.600+/-46.559 $\chi^2$/NDF: 141.9/93

asym_sam_15_37_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 520.697+/-0.127 $\chi^2$/NDF: 2506179.0/19

Left Out: 299.976+/-0.050 $\chi^2$/NDF:1808454.4/24

Right Out: 543.505+/-0.122 $\chi^2$/NDF: 3797807.1/25

Left In: 300.999+/-0.051 $\chi^2$/NDF:1407206.0/22

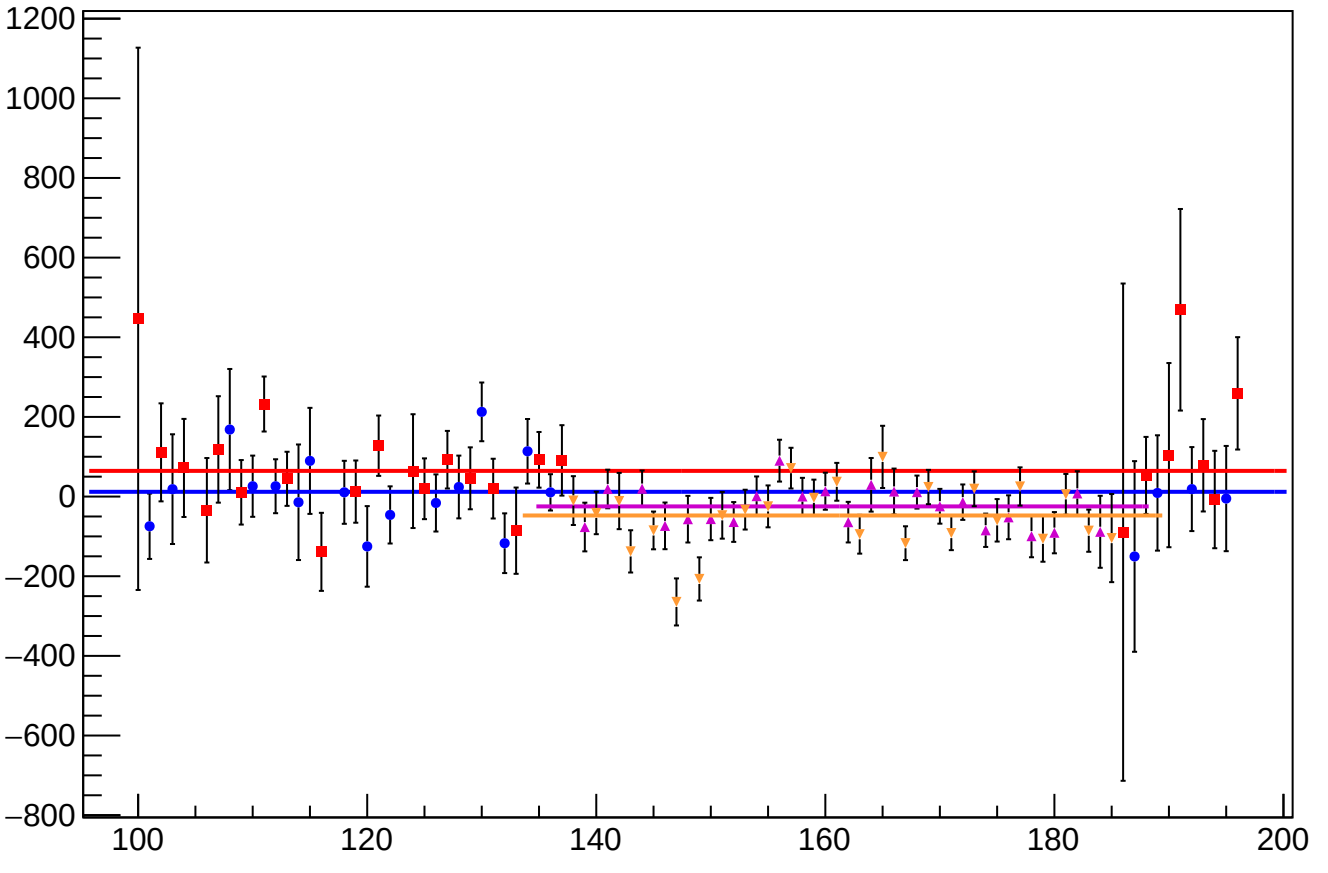
Left: 300.474+/-0.036 $\chi^2$/NDF: 3215867.7/47

Right: 532.512+/-0.088 $\chi^2$/NDF: 6320810.2/45

In: 331.588+/-0.047 $\chi^2$/NDF:6507426.1/42

Out: 334.439+/-0.046 $\chi^2$/NDF:9022729.7/50

All: 333.053+/-0.033 $\chi^2$/NDF: 15532029.1/93




Right In: 11.956+/-19.068 $\chi^2$/NDF: 17.7/19

Left Out: -47.480+/-10.392 $\chi^2$/NDF:54.7/24

Right Out: 64.501+/-18.974 $\chi^2$/NDF: 21.1/25

Left In: -24.687+/-10.660 $\chi^2$/NDF:19.7/22

Left: -36.373+/-7.441 $\chi^2$/NDF: 76.7/47

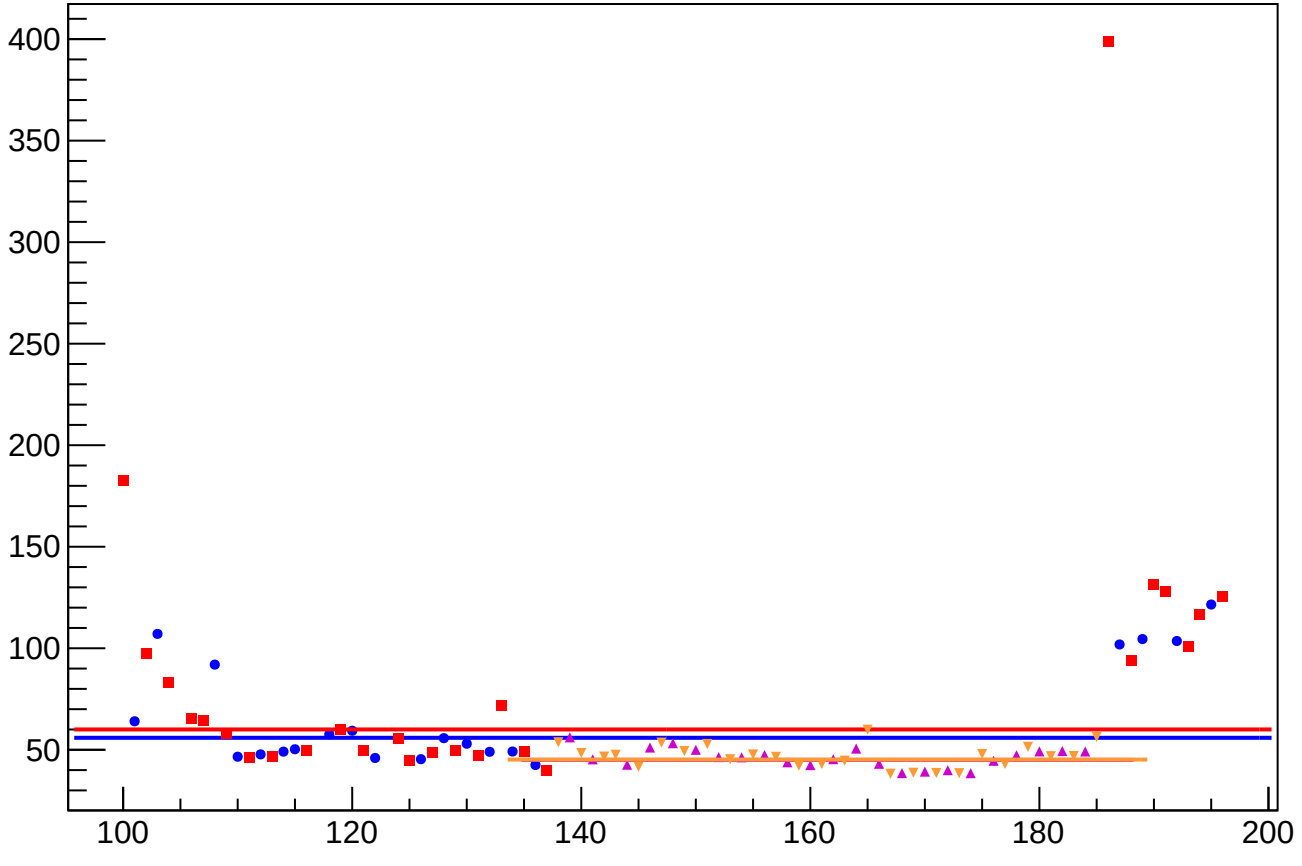
Right: 38.358+/-13.449 $\chi^2$/NDF: 42.6/45

In: -15.961+/-9.304 $\chi^2$/NDF:40.2/42

Out: -21.639+/-9.114 $\chi^2$/NDF:102.6/50

All: -18.859+/-6.511 $\chi^2$/NDF: 143.0/93

# dit_asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 55.905+/-0.013 $\chi^2$/NDF: 1966686.8/19

Left Out: 45.175+/-0.007 $\chi^2$/NDF:489860.2/24

Right Out: 60.020+/-0.013 $\chi^2$/NDF: 3236360.7/25

Left In: 45.017+/-0.008 $\chi^2$/NDF:372690.8/22

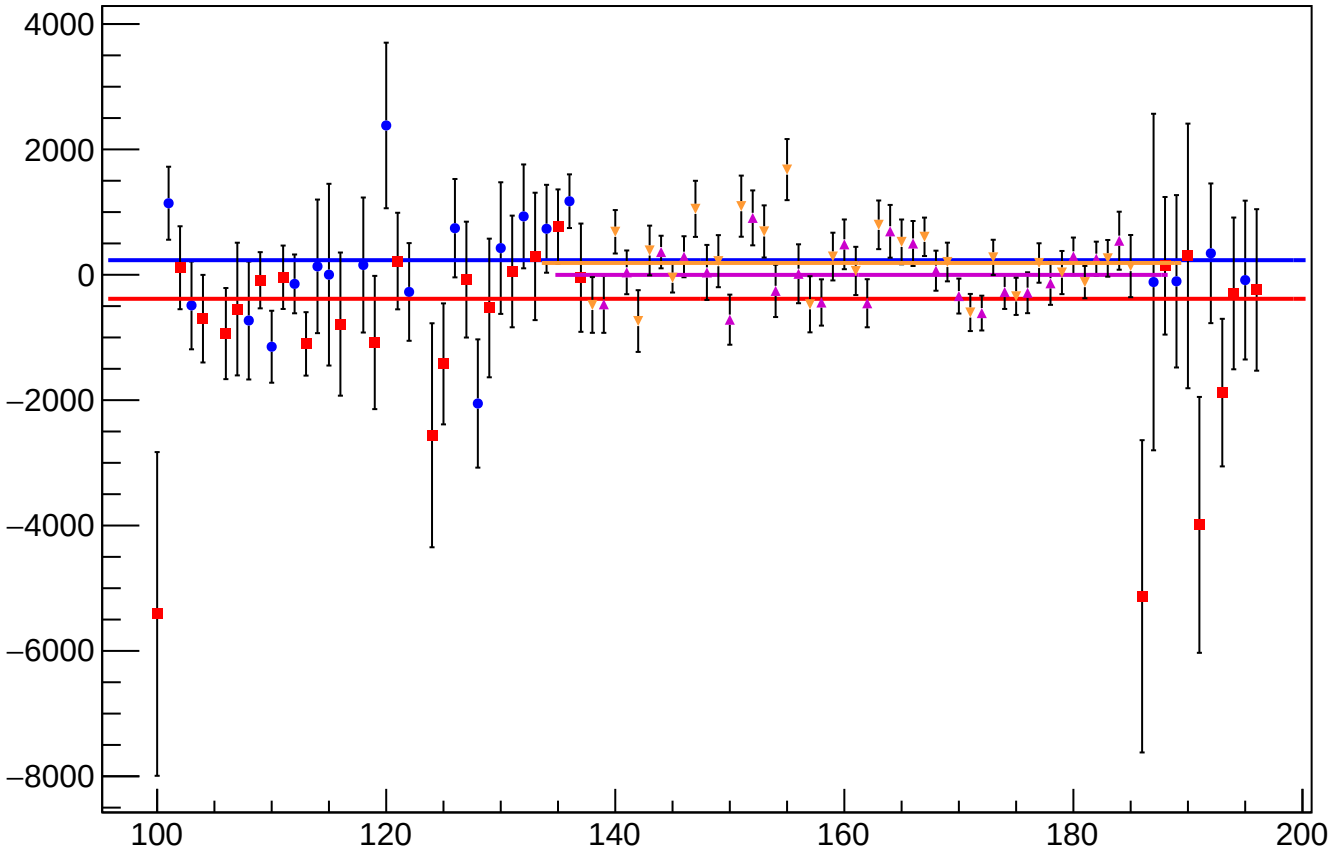
Left: 45.098+/-0.005 $\chi^2$/NDF: 862775.1/47

Right: 57.973+/-0.010 $\chi^2$/NDF: 5249841.3/45

In: 47.610+/-0.007 $\chi^2$/NDF:2836206.4/42

Out: 48.601+/-0.006 $\chi^2$/NDF:4667965.9/50

All: 48.116+/-0.005 $\chi^2$/NDF: 7515741.1/93




Right In: 232.843+/-174.972 $\chi^2$/NDF: 25.7/19

Left Out: 188.812+/-69.714 $\chi^2$/NDF:46.8/24

Right Out: -383.209+/-165.222 $\chi^2$/NDF: 25.3/25

Left In: -1.655+/-71.712 $\chi^2$/NDF:32.2/22

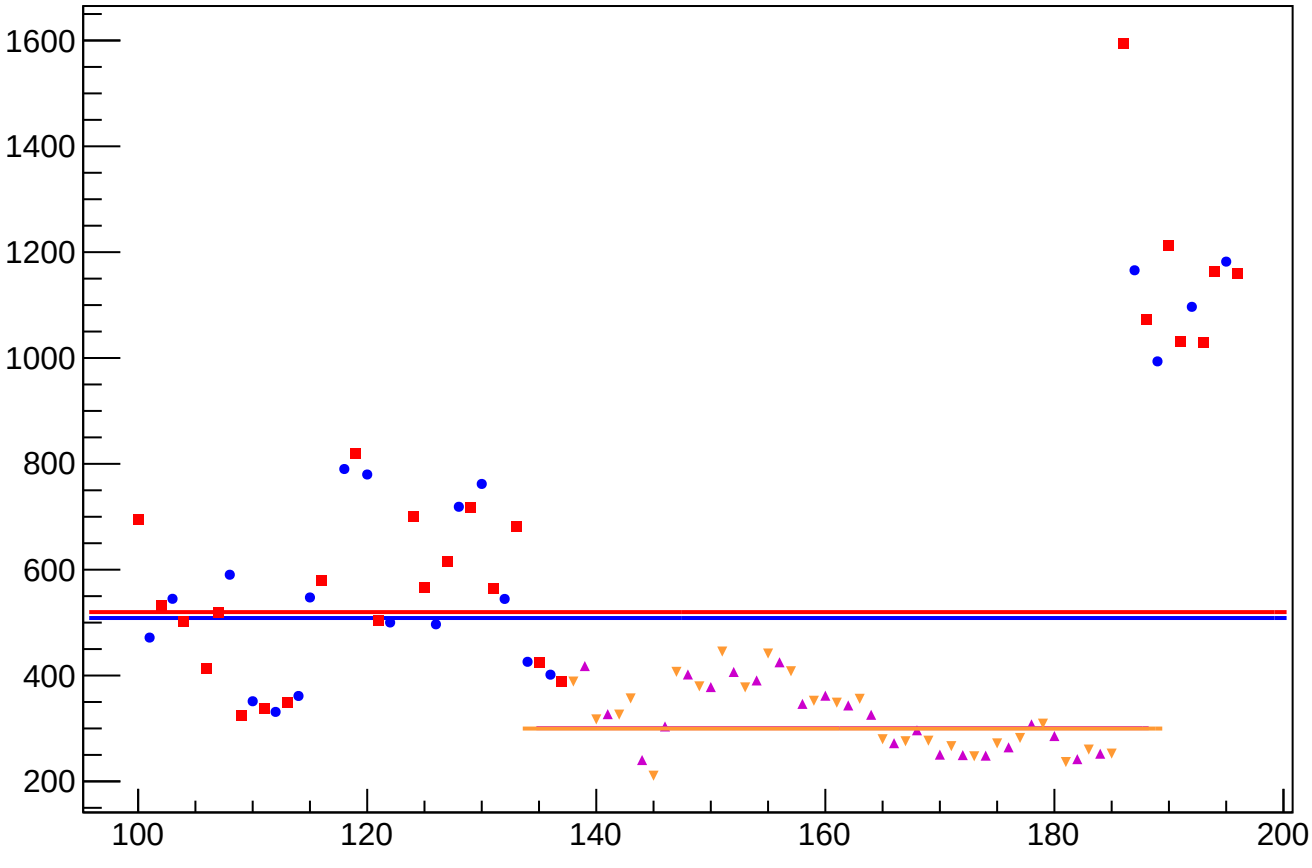
Left: 96.270+/-49.987 $\chi^2$/NDF: 82.6/47

Right: -92.826+/-120.128 $\chi^2$/NDF: 57.6/45

In: 32.071+/-66.355 $\chi^2$/NDF:59.5/42

Out: 102.364+/-64.230 $\chi^2$/NDF:82.2/50

All: 68.361+/-46.151 $\chi^2$/NDF: 142.3/93




Right In: 508.665+/-0.124 $\chi^2$/NDF: 2574566.1/19

Left Out: 299.798+/-0.049 $\chi^2$/NDF:1577420.4/24

Right Out: 519.856+/-0.117 $\chi^2$/NDF: 4001777.1/25

Left In: 300.544+/-0.051 $\chi^2$/NDF:1259270.5/22

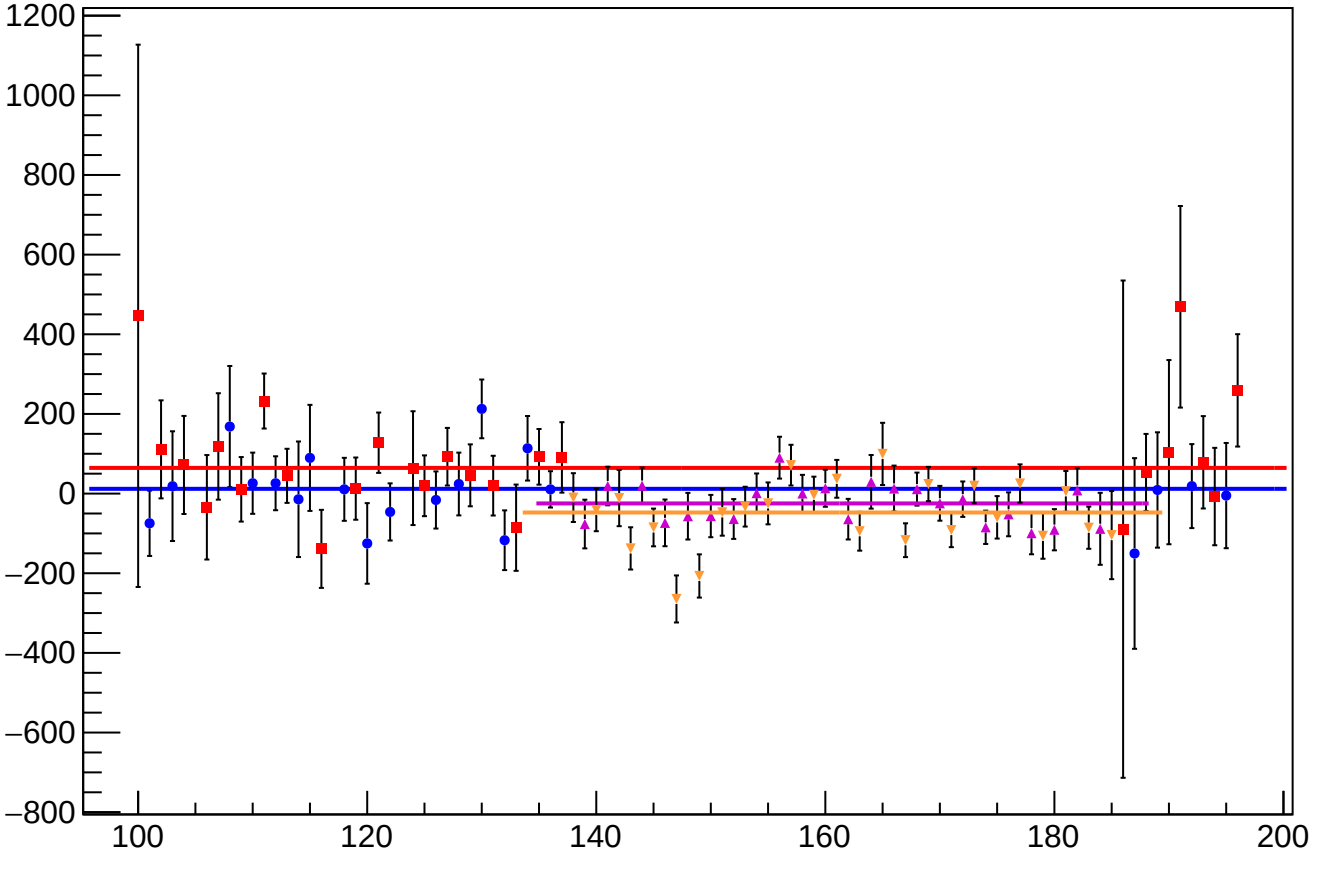
Left: 300.161+/-0.035 $\chi^2$/NDF: 2836802.1/47

Right: 514.581+/-0.085 $\chi^2$/NDF: 6580668.7/45

In: 330.476+/-0.047 $\chi^2$/NDF:6256482.3/42

Out: 333.055+/-0.045 $\chi^2$/NDF:8590915.8/50

All: 331.807+/-0.033 $\chi^2$/NDF: 14848958.2/93




Right In: 11.956+/-19.068 $\chi^2$/NDF: 17.7/19

Left Out: -47.480+/-10.392 $\chi^2$/NDF:54.7/24

Right Out: 64.502+/-18.974 $\chi^2$/NDF: 21.1/25

Left In: -24.687+/-10.660 $\chi^2$/NDF:19.7/22

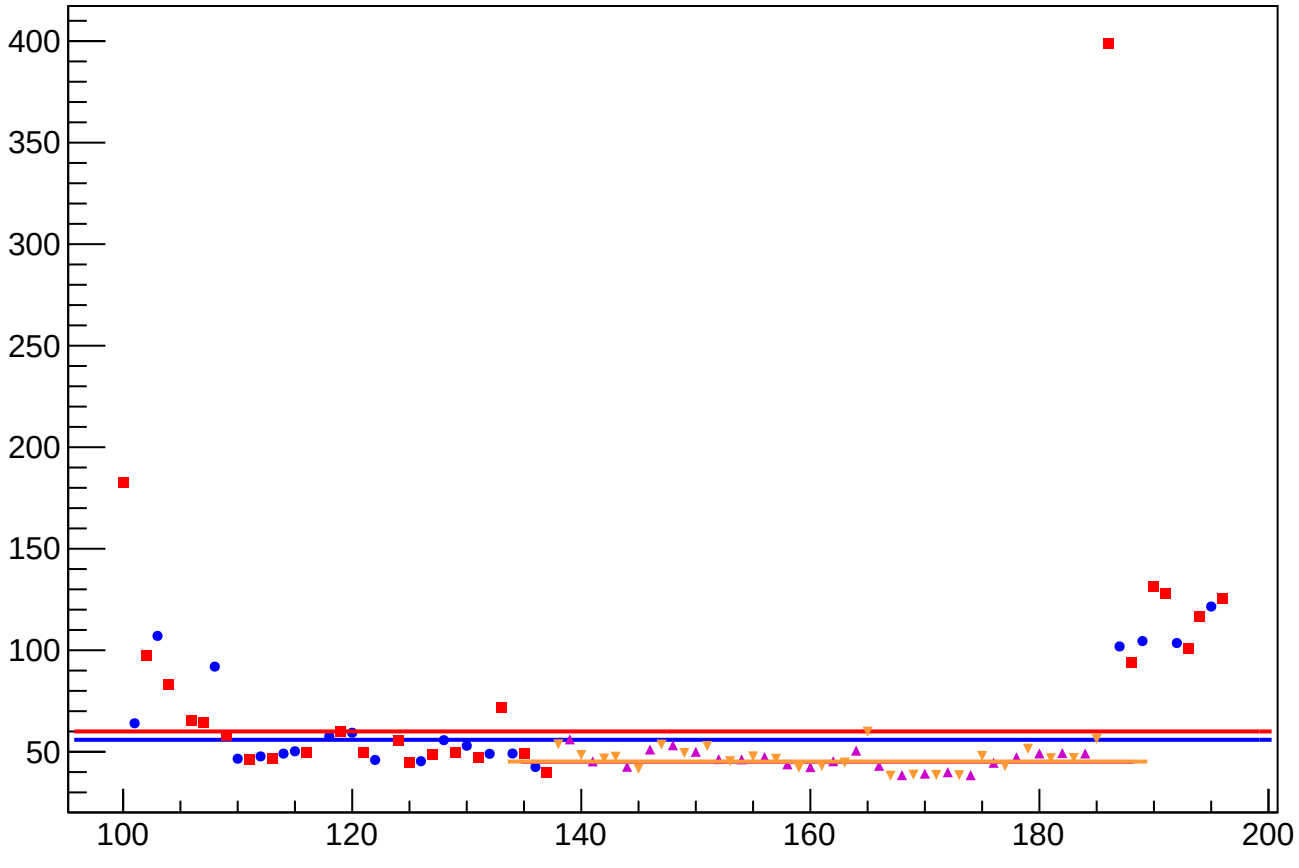
Left: -36.373+/-7.441 $\chi^2$/NDF: 76.7/47

Right: 38.359+/-13.449 $\chi^2$/NDF: 42.6/45

In: -15.962+/-9.304 $\chi^2$/NDF:40.2/42

Out: -21.639+/-9.114 $\chi^2$/NDF:102.6/50

All: -18.859+/-6.511 $\chi^2$/NDF: 143.0/93




Right In: 55.905+/-0.013 $\chi^2$/NDF: 1966695.1/19

Left Out: 45.175+/-0.007 $\chi^2$/NDF:489860.2/24

Right Out: 60.020+/-0.013 $\chi^2$/NDF: 3236367.3/25

Left In: 45.017+/-0.008 $\chi^2$/NDF:372691.9/22

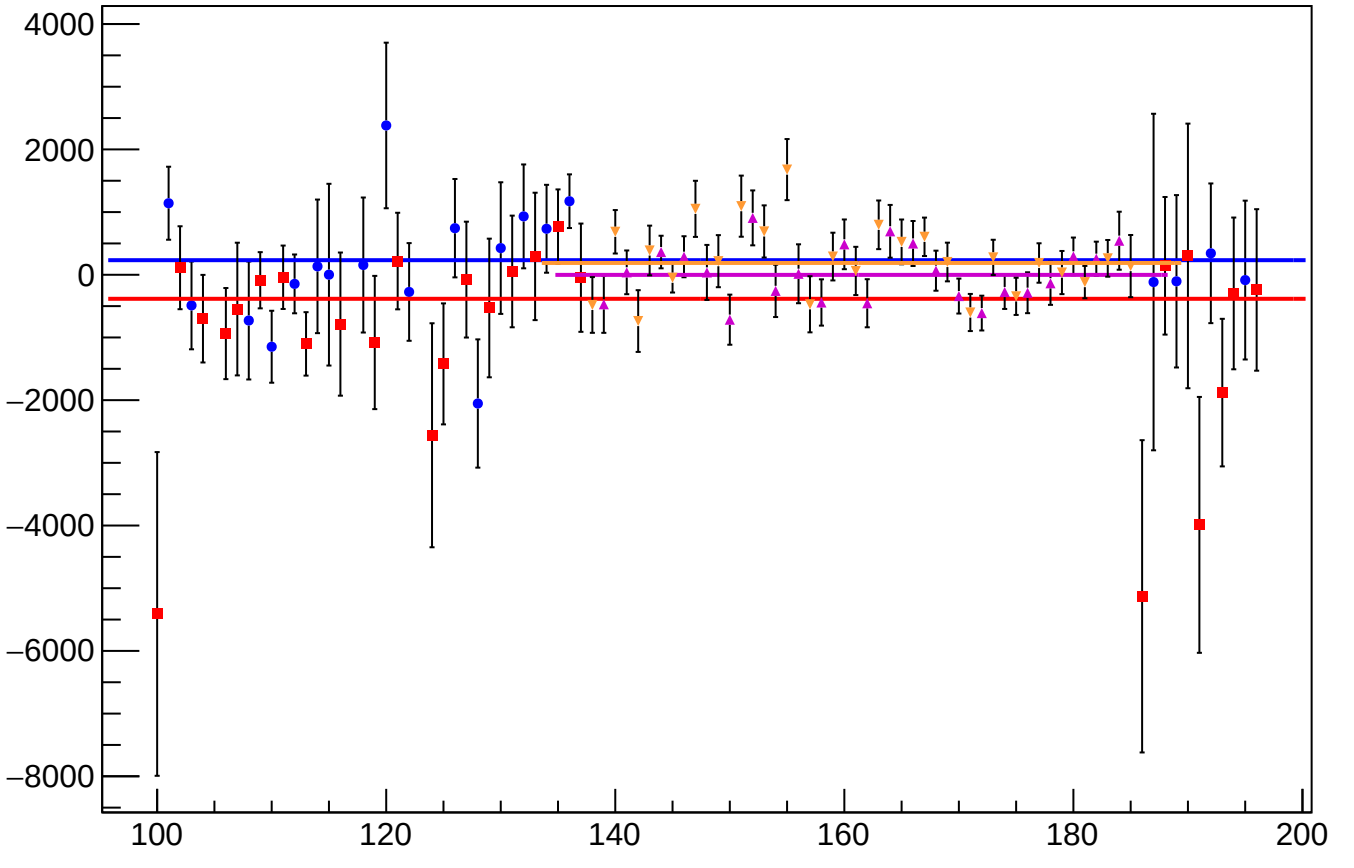
Left: 45.098+/-0.005 $\chi^2$/NDF: 862776.2/47

Right: 57.973+/-0.010 $\chi^2$/NDF: 5249857.0/45

In: 47.610+/-0.007 $\chi^2$/NDF:2836213.7/42

Out: 48.601+/-0.006 $\chi^2$/NDF:4667978.8/50

All: 48.116+/-0.005 $\chi^2$/NDF: 7515760.6/93




Right In: 232.841+/-174.971 $\chi^2$/NDF: 25.7/19

Left Out: 188.813+/-69.714 $\chi^2$/NDF:46.8/24

Right Out: -383.209+/-165.221 $\chi^2$/NDF: 25.3/25

Left In: -1.654+/-71.712 $\chi^2$/NDF:32.2/22

Left: 96.270+/-49.987 $\chi^2$/NDF: 82.6/47

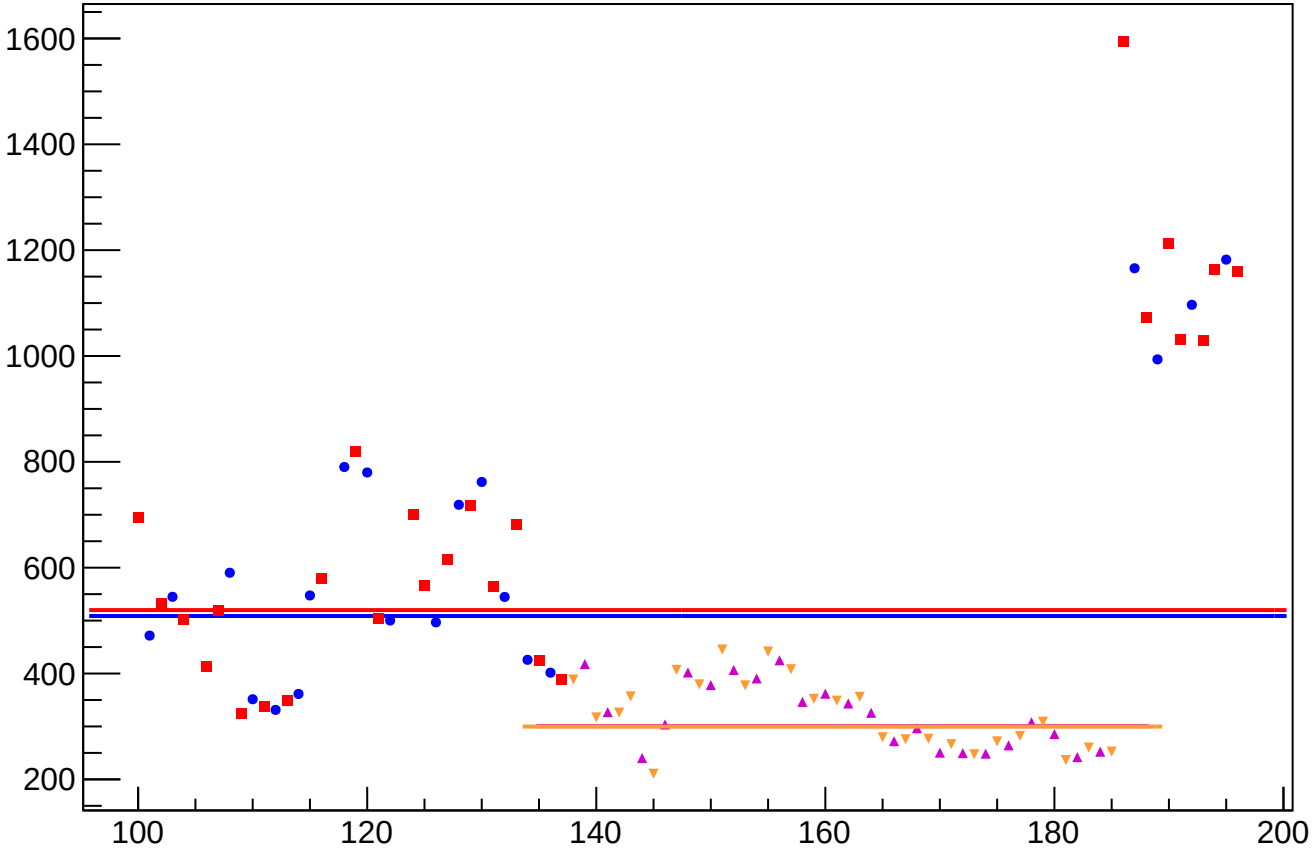
Right: -92.826+/-120.128 $\chi^2$/NDF: 57.6/45

In: 32.071+/-66.356 $\chi^2$/NDF:59.5/42

Out: 102.364+/-64.230 $\chi^2$/NDF:82.2/50

All: 68.361+/-46.151 $\chi^2$/NDF: 142.3/93

asym_sam_15_37_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 508.664+/-0.124 $\chi^2$/NDF: 2574570.8/19

Left Out: 299.798+/-0.049 $\chi^2$/NDF:1577421.4/24

Right Out: 519.856+/-0.117 $\chi^2$/NDF: 4001777.8/25

Left In: 300.544+/-0.051 $\chi^2$/NDF:1259265.2/22

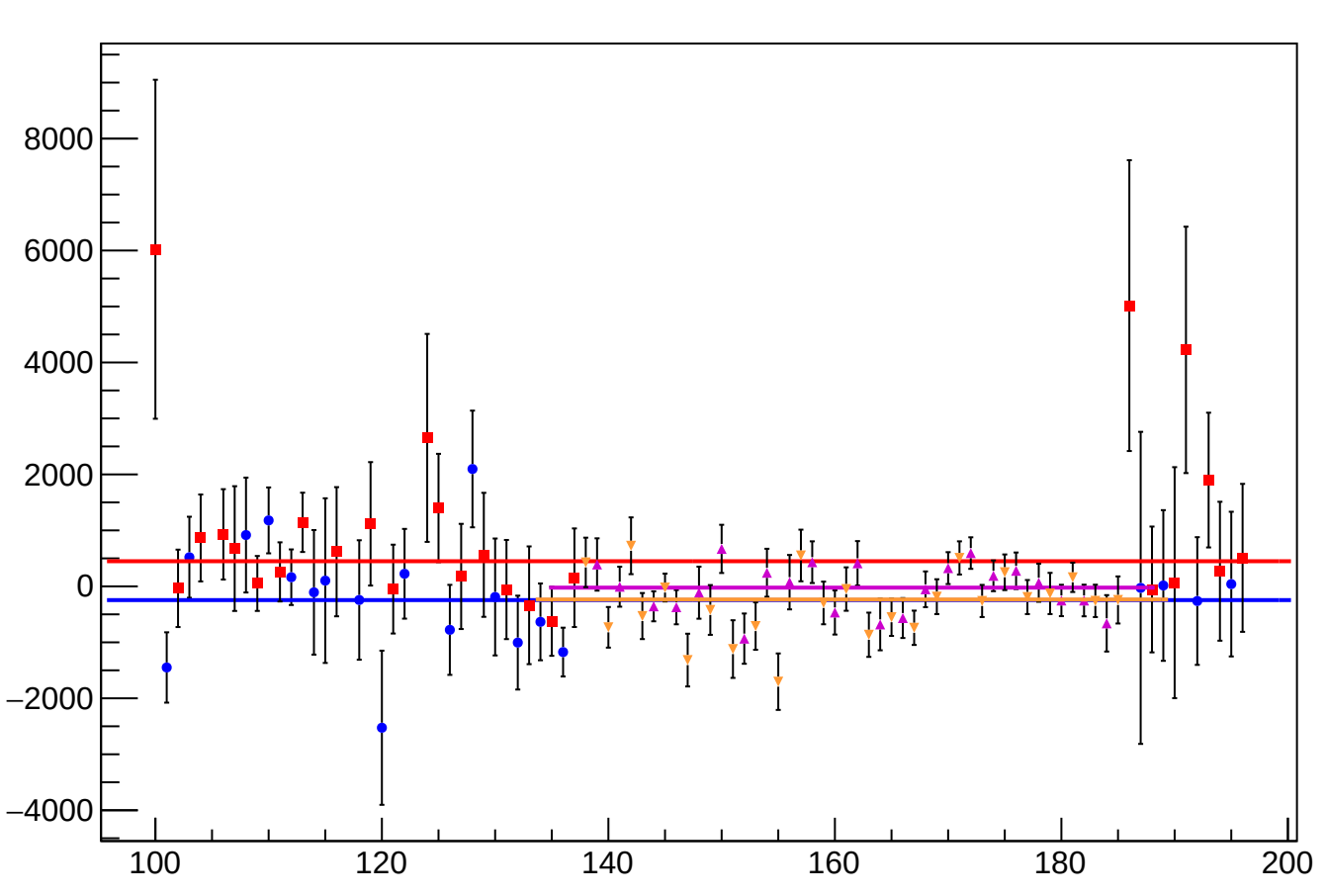
Left: 300.161+/-0.035 $\chi^2$/NDF: 2836797.9/47

Right: 514.580+/-0.085 $\chi^2$/NDF: 6580674.2/45

In: 330.476+/-0.047 $\chi^2$/NDF:6256457.6/42

Out: 333.055+/-0.045 $\chi^2$/NDF:8590895.7/50

All: 331.808+/-0.033 $\chi^2$/NDF: 14848913.3/93




Right In: -245.266+/-180.159 $\chi^2$/NDF: 27.0/19

Left Out: -235.168+/-70.741 $\chi^2$/NDF:47.5/24

Right Out: 449.157+/-173.128 $\chi^2$/NDF: 22.1/25

Left In: -22.662+/-72.642 $\chi^2$/NDF:29.9/22

Left: -131.732+/-50.680 $\chi^2$/NDF: 81.7/47

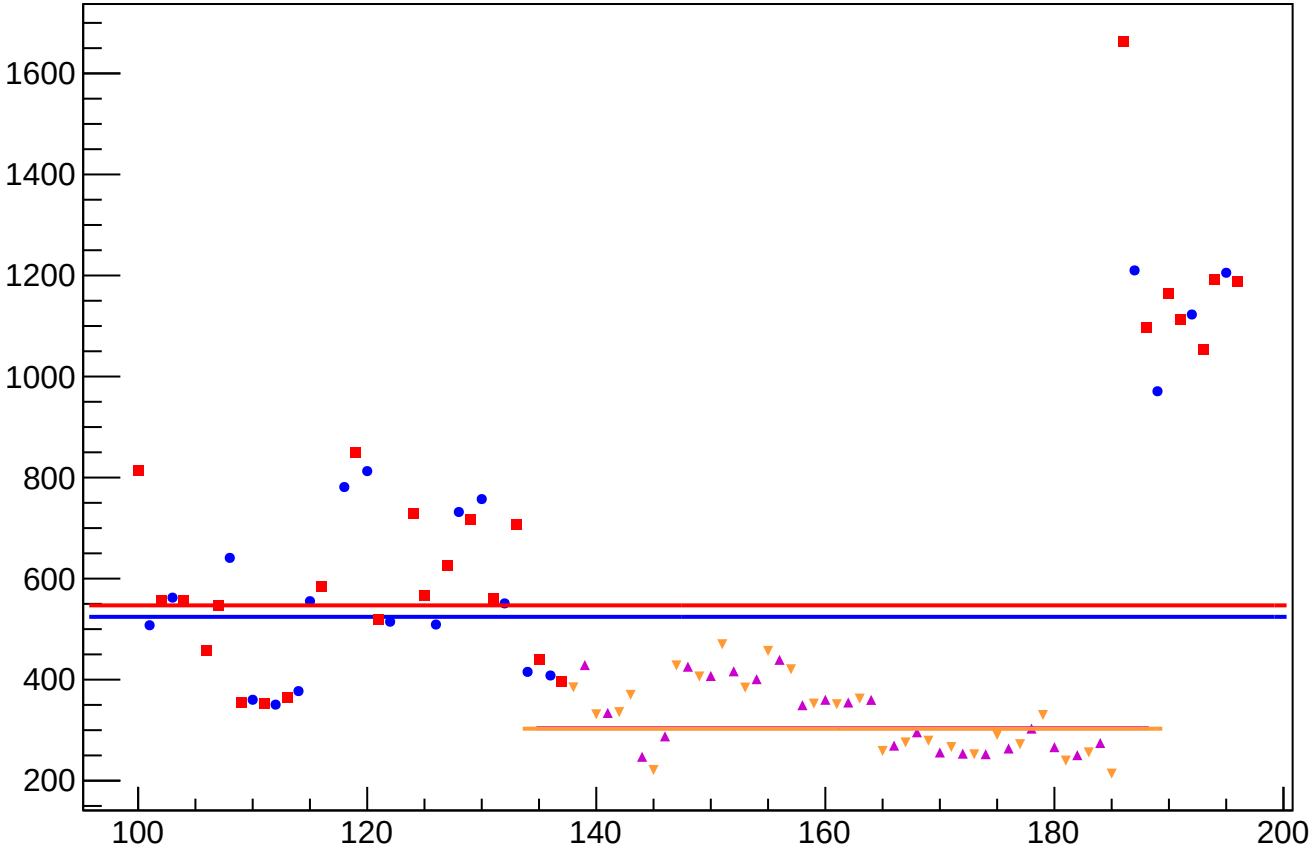
Right: 115.760+/-124.831 $\chi^2$/NDF: 56.8/45

In: -53.792+/-67.372 $\chi^2$/NDF:58.2/42

Out: -137.260+/-65.485 $\chi^2$/NDF:82.9/50

All: -96.711+/-46.958 $\chi^2$/NDF: 141.9/93

# asym_sam_15_37_dd_rms vs Slug, Sign Corrected




Right In: 524.315+/-0.127 $\chi^2$/NDF: 2494047.7/19

Left Out: 302.944+/-0.050 $\chi^2$/NDF:1766061.8/24

Right Out: 547.029+/-0.122 $\chi^2$/NDF: 3785239.7/25

Left In: 303.923+/-0.051 $\chi^2$/NDF:1376278.3/22

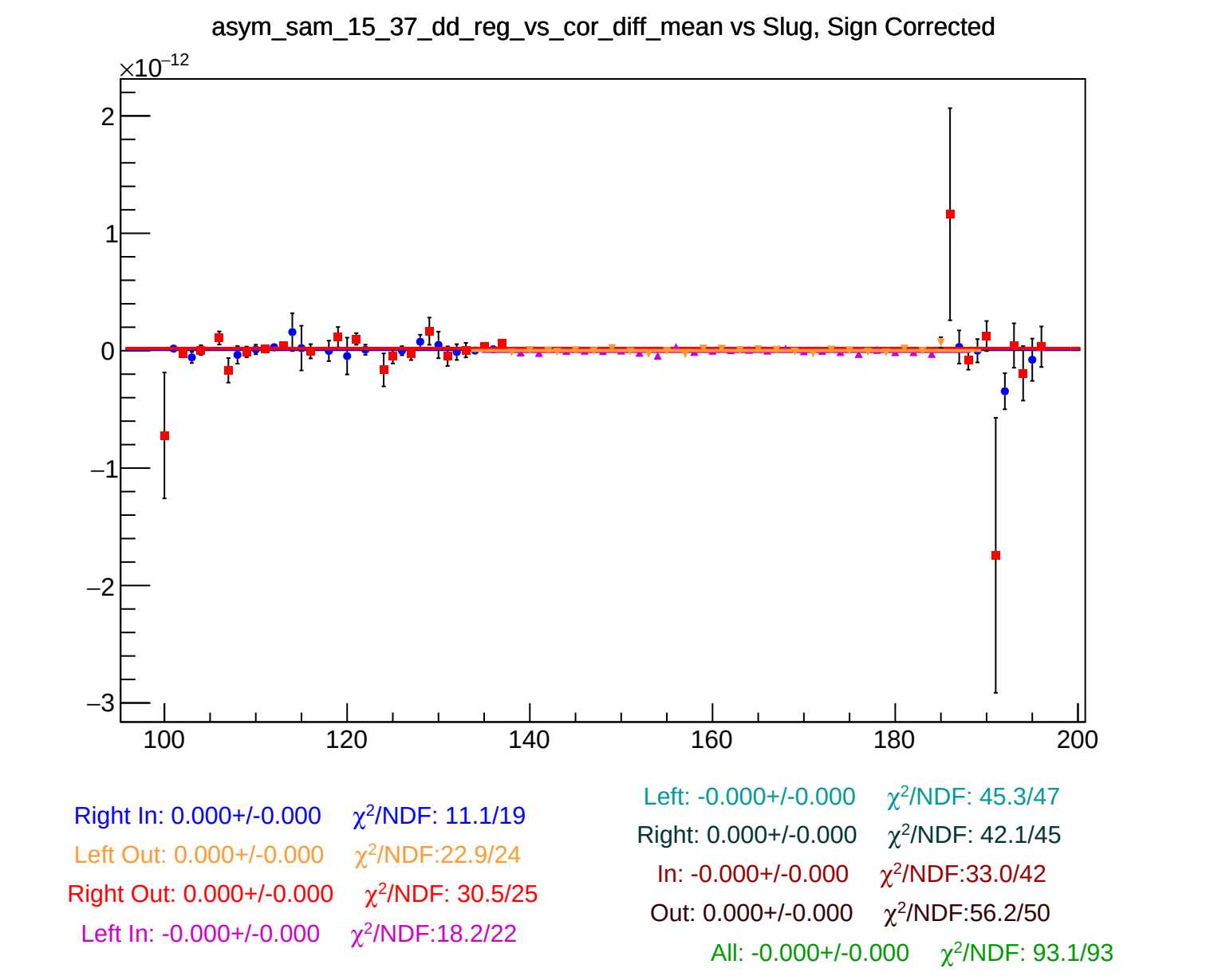
Left: 303.420+/-0.036 $\chi^2$/NDF: 3142526.7/47

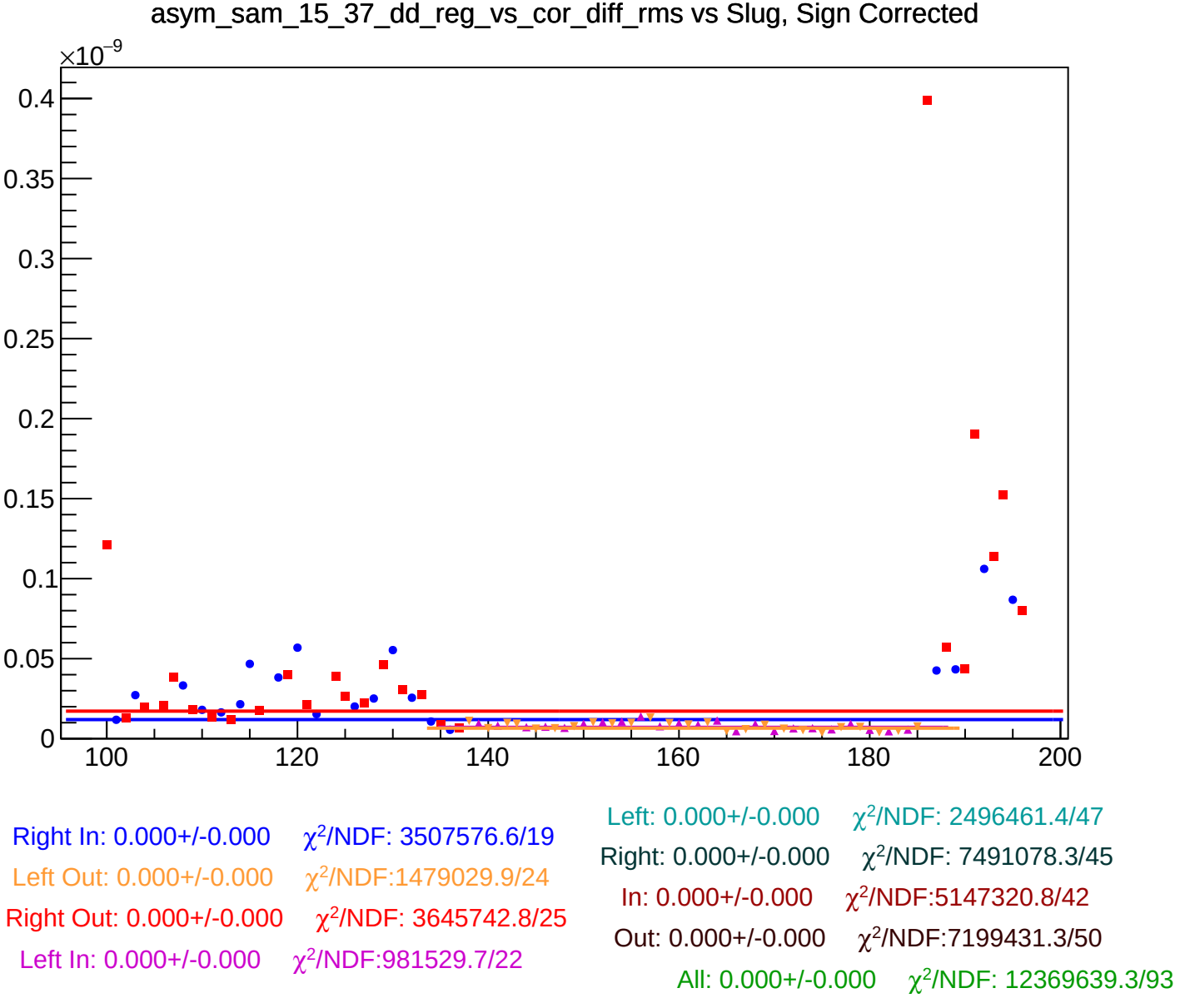
Right: 536.124+/-0.088 $\chi^2$/NDF: 6295814.7/45

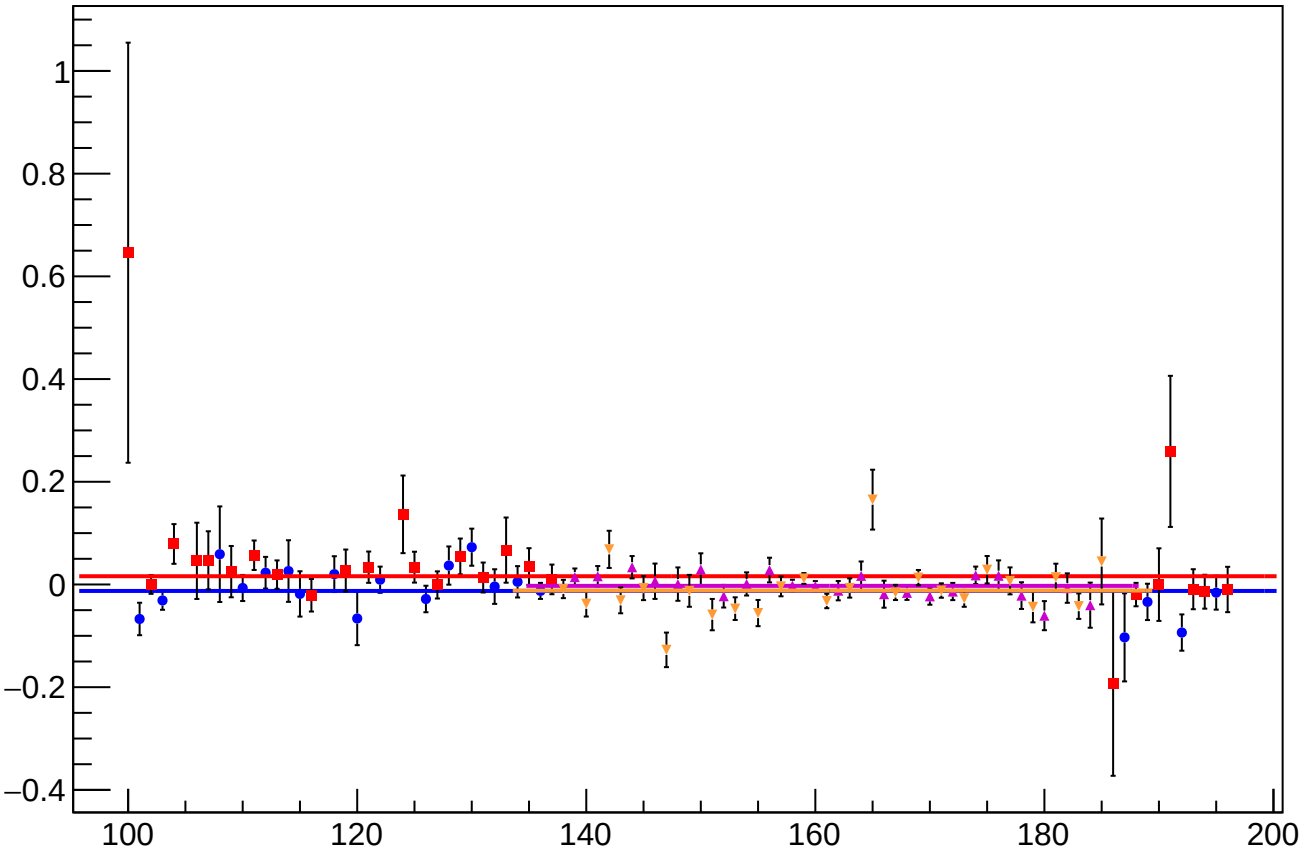
In: 334.744+/-0.048 $\chi^2$/NDF:6444800.8/42

Out: 337.865+/-0.046 $\chi^2$/NDF:8957914.0/50

All: 336.349+/-0.033 $\chi^2$/NDF: 15404922.8/93


asym_sam_15_37_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 11.1/19
Left Out: 0.000+/-0.000 χ²/NDF:22.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 30.5/25
Left In: -0.000+/-0.000 χ²/NDF:18.2/22
Left: -0.000+/-0.000 χ²/NDF: 45.3/47
Right: 0.000+/-0.000 χ²/NDF: 42.1/45
In: -0.000+/-0.000 χ²/NDF:33.0/42
Out: 0.000+/-0.000 χ²/NDF:56.2/50
All: -0.000+/-0.000 χ²/NDF: 93.1/93


asym_sam_15_37_dd_reg_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3507576.6/19
Left Out: 0.000+/-0.000 χ²/NDF:1479029.9/24
Right Out: 0.000+/-0.000 χ²/NDF: 3645742.8/25
Left In: 0.000+/-0.000 χ²/NDF:981529.7/22
Left: 0.000+/-0.000 χ²/NDF: 2496461.4/47
Right: 0.000+/-0.000 χ²/NDF: 7491078.3/45
In: 0.000+/-0.000 χ²/NDF:5147320.8/42
Out: 0.000+/-0.000 χ²/NDF:7199431.3/50
All: 0.000+/-0.000 χ²/NDF: 12369639.3/93




Right In: -0.013+/-0.007 $\chi^2$/NDF: 23.9/19

Left Out: -0.012+/-0.004 $\chi^2$/NDF:53.4/24

Right Out: 0.016+/-0.007 $\chi^2$/NDF: 23.8/25

Left In: -0.003+/-0.004 $\chi^2$/NDF:19.8/22

Left: -0.007+/-0.003 $\chi^2$/NDF: 75.7/47

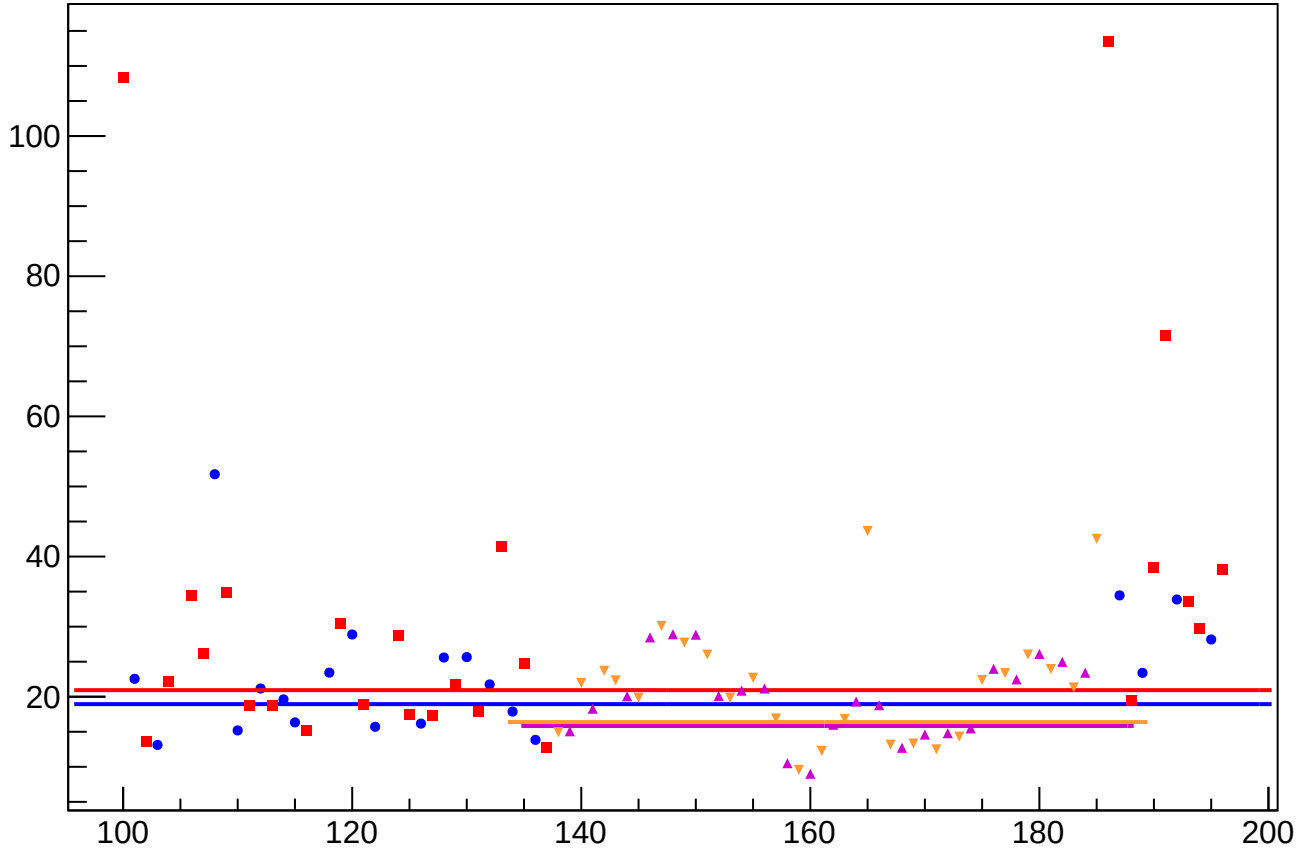
Right: 0.001+/-0.005 $\chi^2$/NDF: 56.5/45

In: -0.005+/-0.003 $\chi^2$/NDF:45.3/42

Out: -0.005+/-0.004 $\chi^2$/NDF:89.3/50

All: -0.005+/-0.002 $\chi^2$/NDF: 134.6/93

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.943+/-0.005 $\chi^2$/NDF: 1673738.5/19

Left Out: 16.387+/-0.003 $\chi^2$/NDF:4030028.3/24

Right Out: 20.938+/-0.005 $\chi^2$/NDF: 2916671.0/25

Left In: 15.824+/-0.003 $\chi^2$/NDF:3654469.7/22

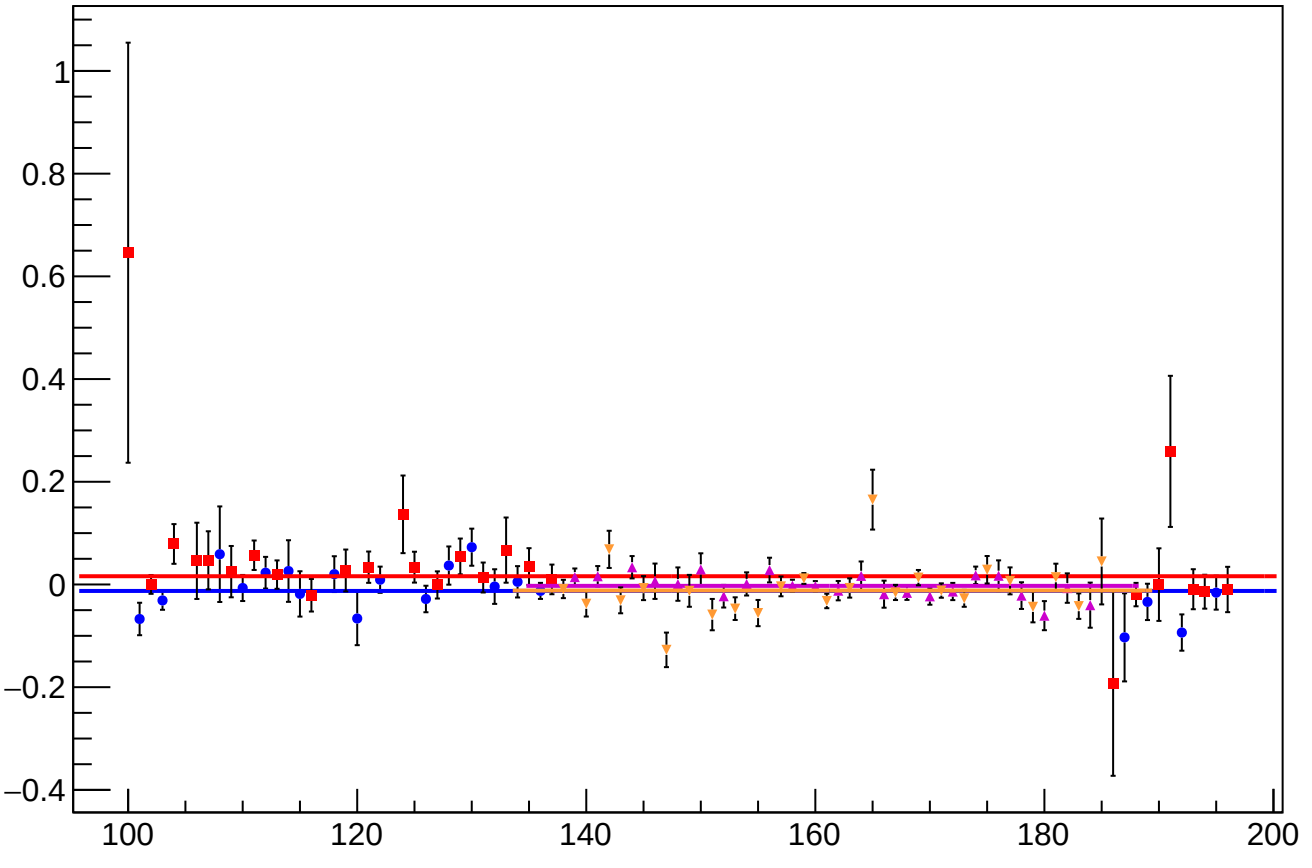
Left: 16.104+/-0.002 $\chi^2$/NDF: 7703852.9/47

Right: 19.918+/-0.003 $\chi^2$/NDF: 4675791.1/45

In: 16.646+/-0.002 $\chi^2$/NDF:5642506.0/42

Out: 17.559+/-0.002 $\chi^2$/NDF:7591620.8/50

All: 17.098+/-0.002 $\chi^2$/NDF: 13302757.3/93




Right In: -0.013+/-0.007 $\chi^2$/NDF: 23.9/19

Left Out: -0.012+/-0.004 $\chi^2$/NDF:53.4/24

Right Out: 0.016+/-0.007 $\chi^2$/NDF: 23.8/25

Left In: -0.003+/-0.004 $\chi^2$/NDF:19.8/22

Left: -0.007+/-0.003 $\chi^2$/NDF: 75.7/47

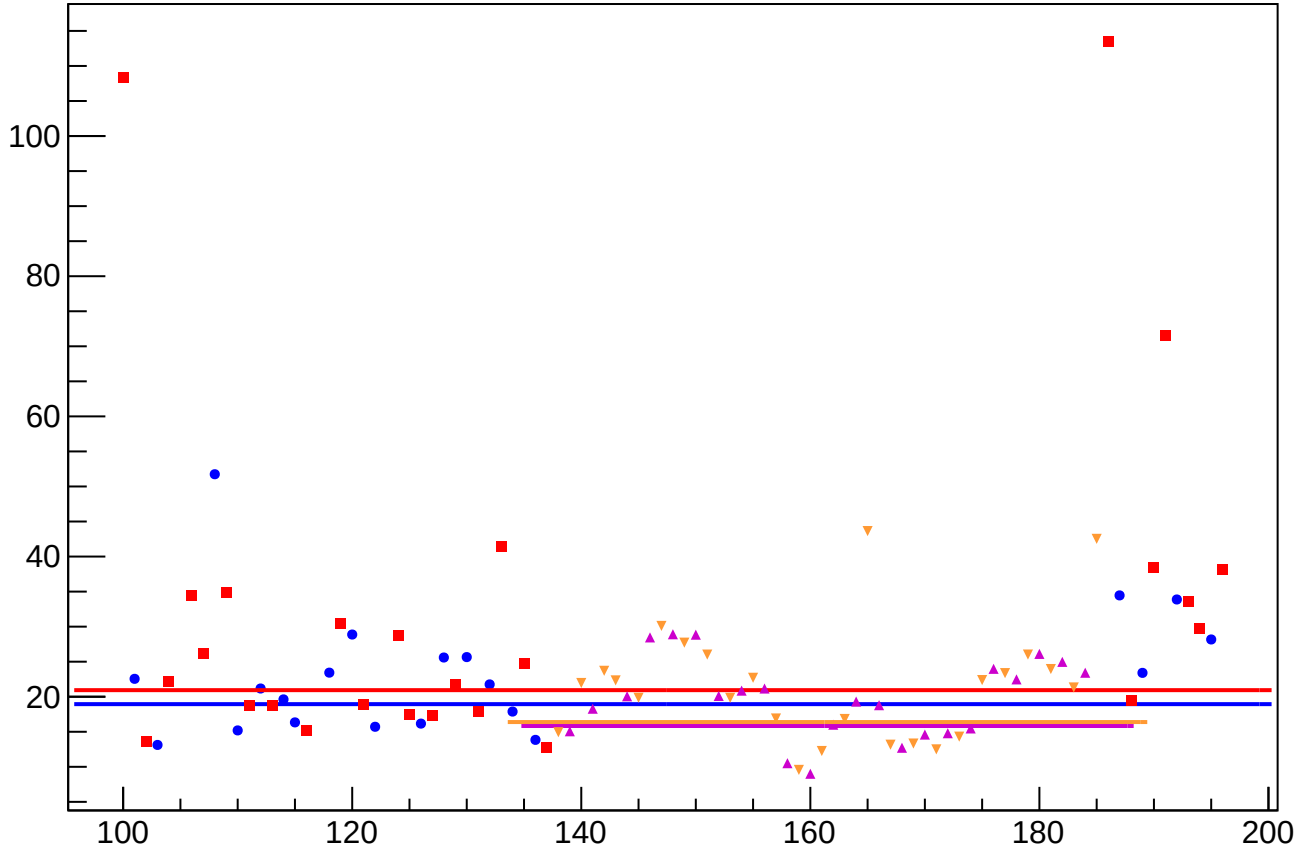
Right: 0.001+/-0.005 $\chi^2$/NDF: 56.5/45

In: -0.005+/-0.003 $\chi^2$/NDF:45.3/42

Out: -0.005+/-0.004 $\chi^2$/NDF:89.3/50

All: -0.005+/-0.002 $\chi^2$/NDF: 134.6/93

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.943+/-0.005 $\chi^2$/NDF: 1673738.5/19

Left Out: 16.387+/-0.003 $\chi^2$/NDF:4030028.3/24

Right Out: 20.938+/-0.005 $\chi^2$/NDF: 2916671.0/25

Left In: 15.824+/-0.003 $\chi^2$/NDF:3654469.7/22

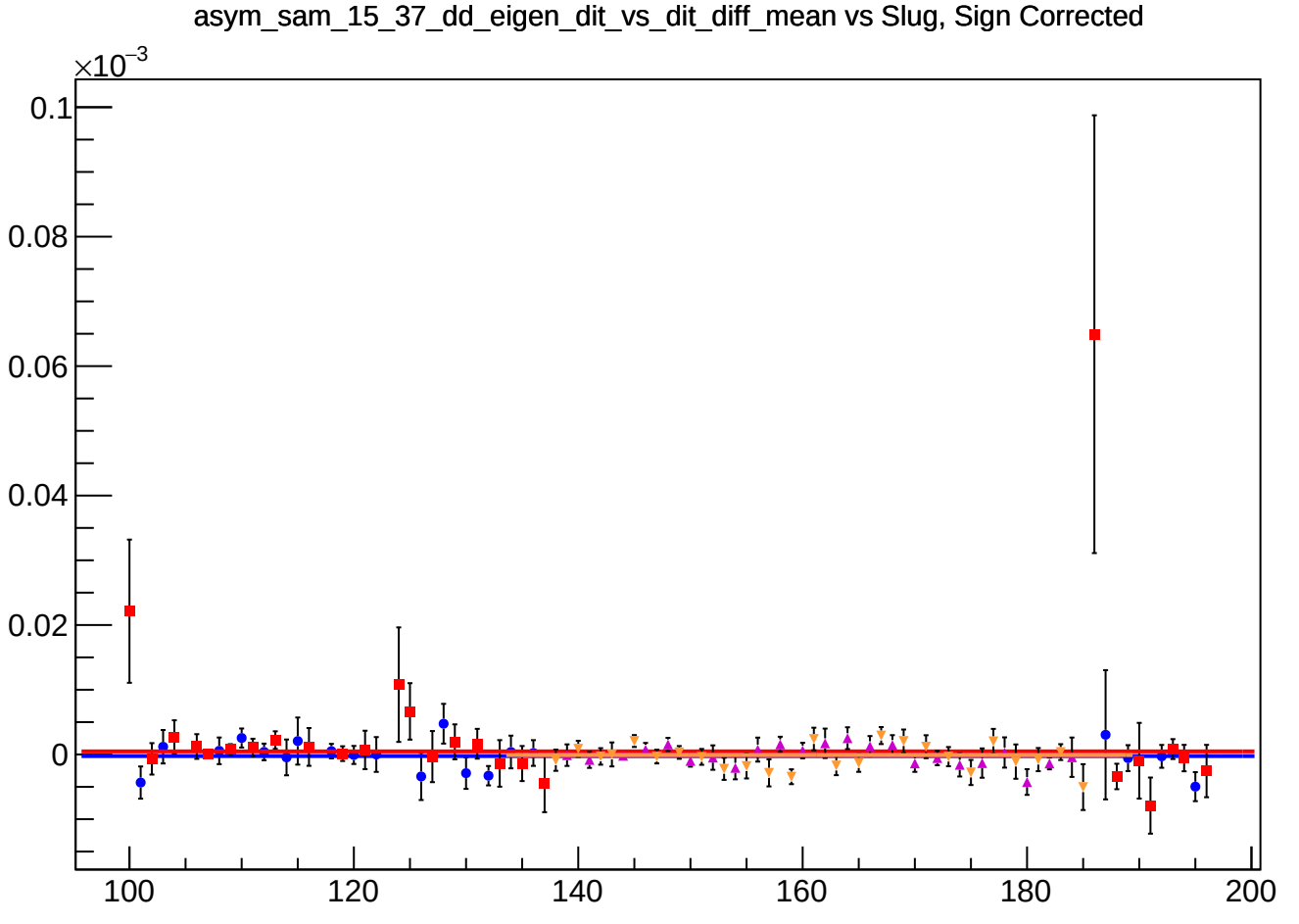
Left: 16.104+/-0.002 $\chi^2$/NDF: 7703852.9/47

Right: 19.918+/-0.003 $\chi^2$/NDF: 4675791.1/45

In: 16.646+/-0.002 $\chi^2$/NDF:5642506.0/42

Out: 17.559+/-0.002 $\chi^2$/NDF:7591620.8/50

All: 17.098+/-0.002 $\chi^2$/NDF: 13302757.3/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 21.3/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:36.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.9/22

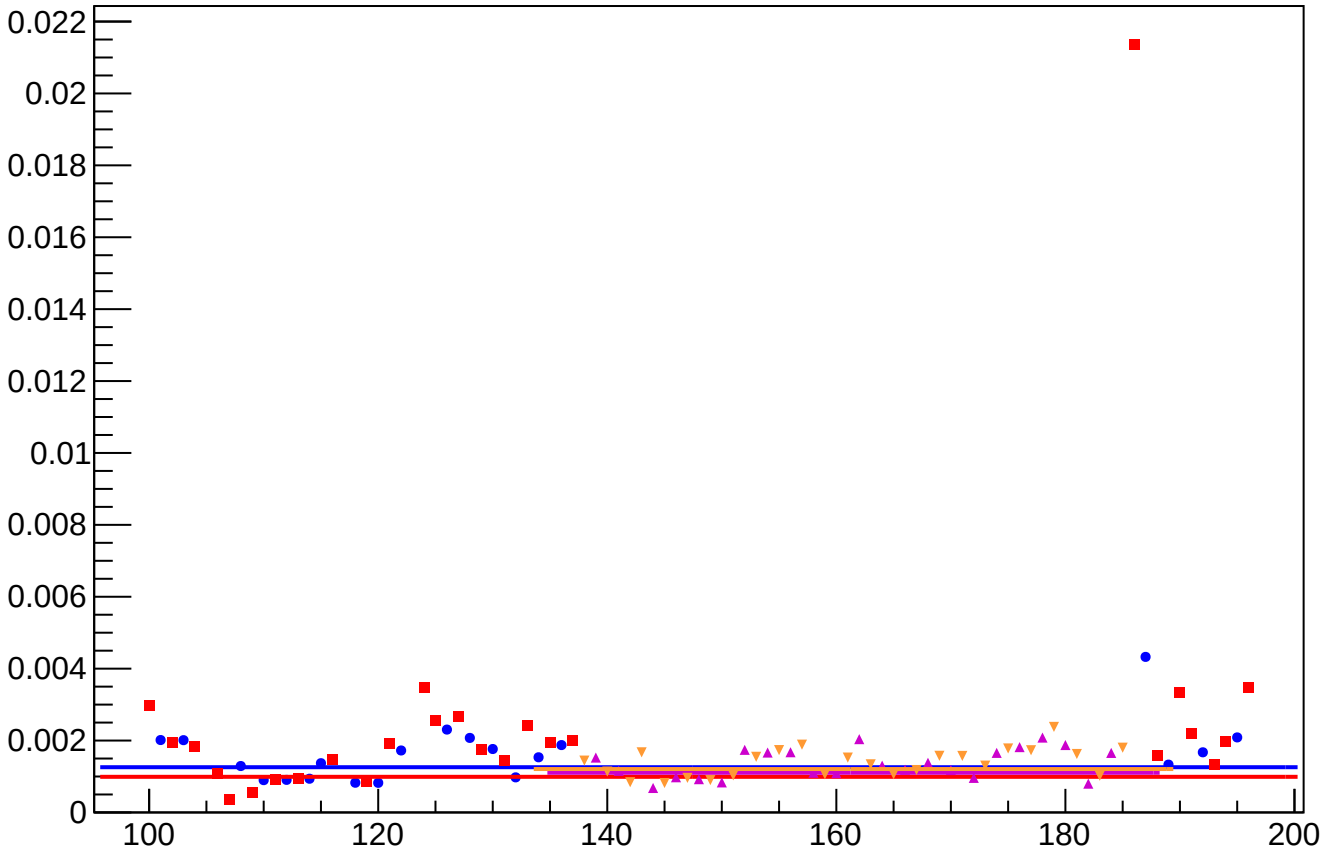
Left: -0.000+/-0.000 $\chi^2$/NDF: 58.1/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 48.4/45

In: -0.000+/-0.000 $\chi^2$/NDF:43.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:63.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 107.2/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2457084.0/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:2720984.6/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 7339083.2/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:3494983.4/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 6352461.8/47

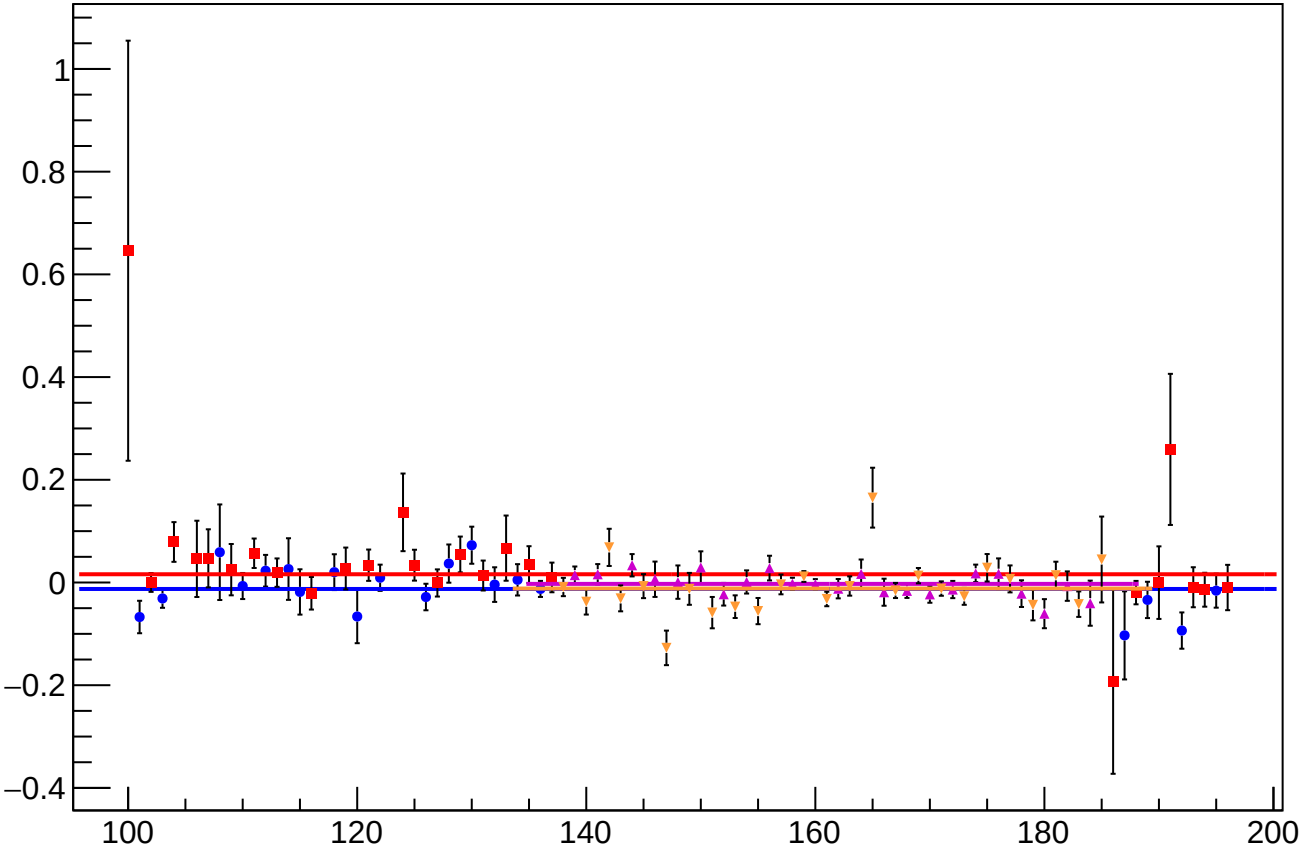
Right: 0.001+/-0.000 $\chi^2$/NDF: 10248340.8/45

In: 0.001+/-0.000 $\chi^2$/NDF:6132356.1/42

Out: 0.001+/-0.000 $\chi^2$/NDF:10508953.9/50

All: 0.001+/-0.000 $\chi^2$/NDF: 16654326.4/93

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.013+/-0.007 $\chi^2$/NDF: 23.9/19

Left Out: -0.012+/-0.004 $\chi^2$/NDF:53.4/24

Right Out: 0.016+/-0.007 $\chi^2$/NDF: 23.8/25

Left In: -0.003+/-0.004 $\chi^2$/NDF:19.8/22

Left: -0.007+/-0.003 $\chi^2$/NDF: 75.7/47

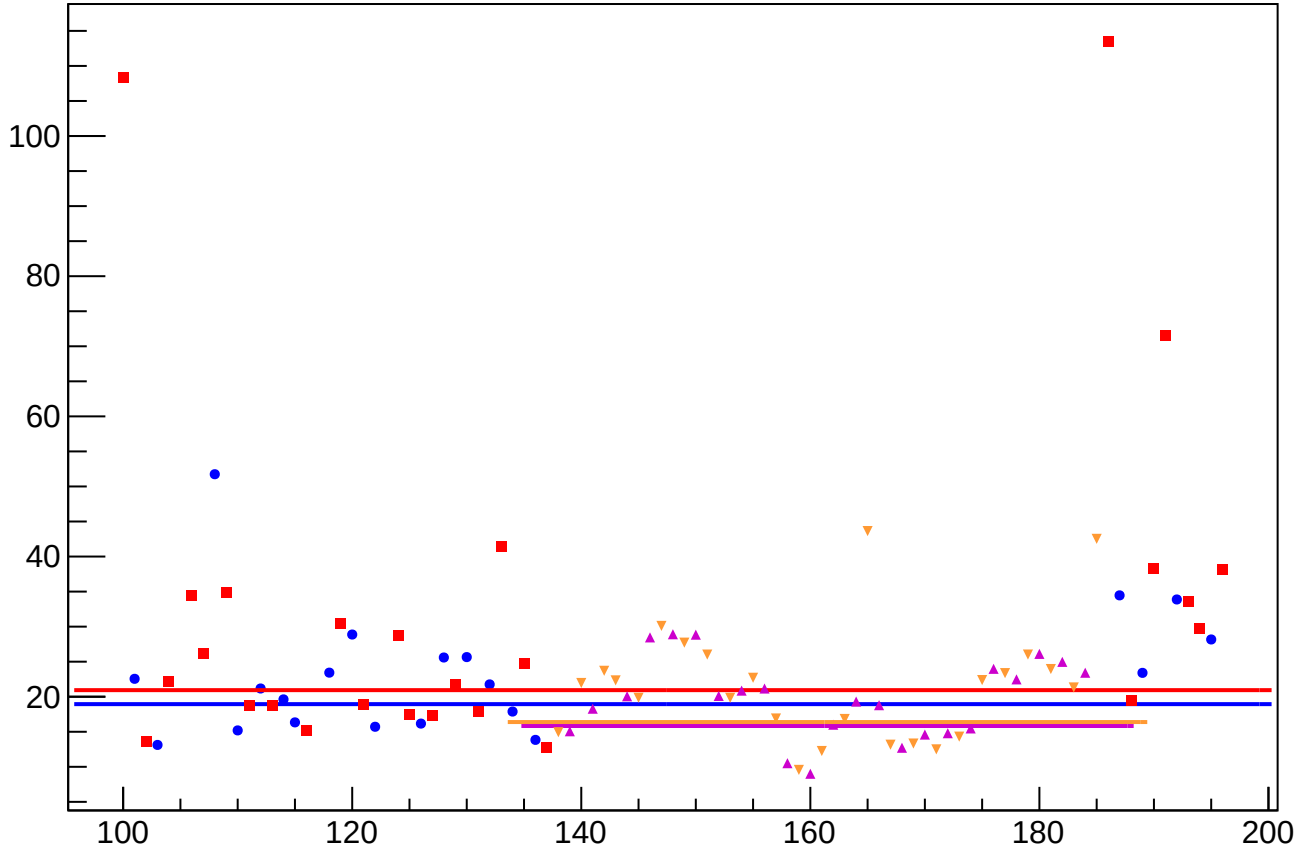
Right: 0.001+/-0.005 $\chi^2$/NDF: 56.5/45

In: -0.005+/-0.003 $\chi^2$/NDF:45.3/42

Out: -0.005+/-0.004 $\chi^2$/NDF:89.3/50

All: -0.005+/-0.002 $\chi^2$/NDF: 134.6/93

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.943+/-0.005 $\chi^2$/NDF: 1673761.0/19

Left Out: 16.387+/-0.003 $\chi^2$/NDF:4030277.2/24

Right Out: 20.939+/-0.005 $\chi^2$/NDF: 2916458.3/25

Left In: 15.823+/-0.003 $\chi^2$/NDF:3654834.3/22

Left: 16.104+/-0.002 $\chi^2$/NDF: 7704470.7/47

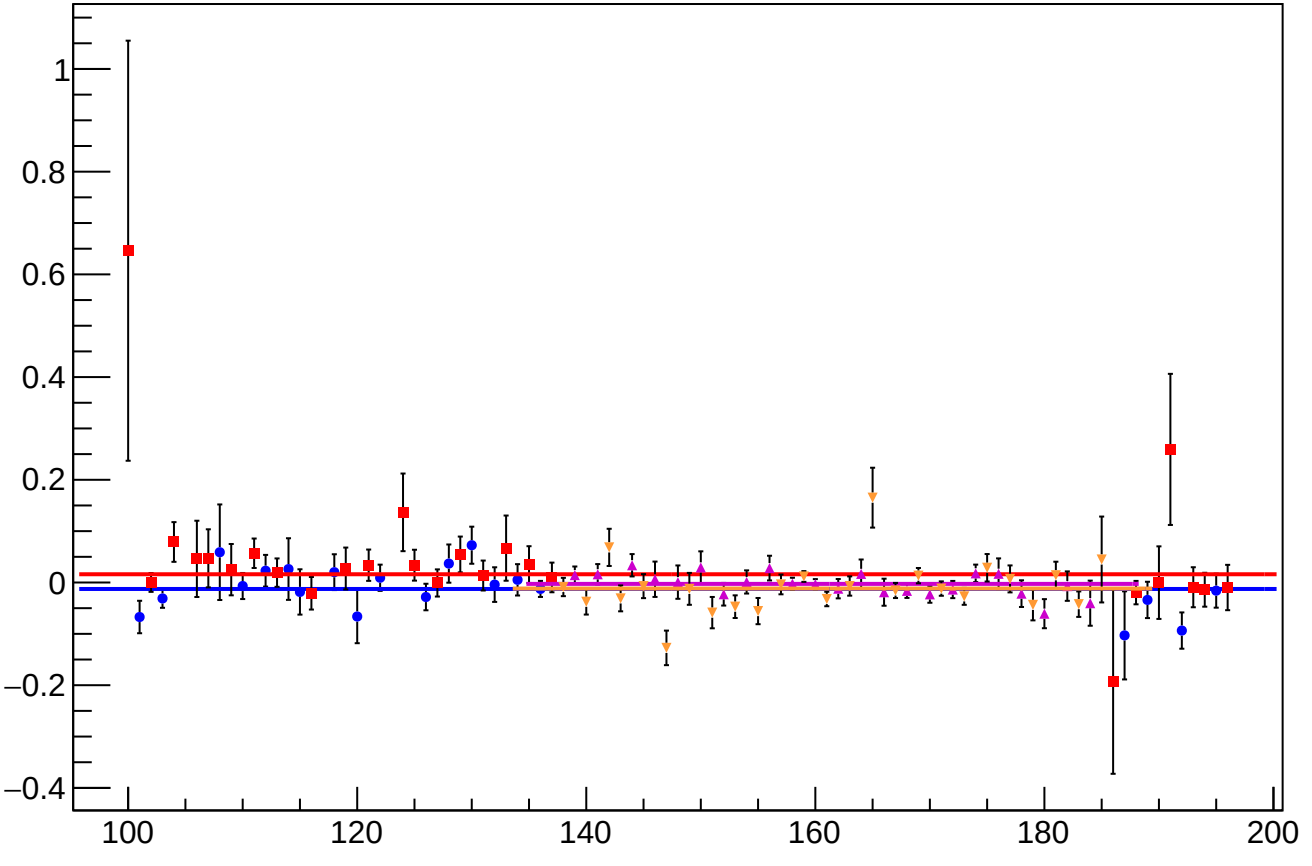
Right: 19.918+/-0.003 $\chi^2$/NDF: 4675638.5/45

In: 16.646+/-0.002 $\chi^2$/NDF:5642955.4/42

Out: 17.559+/-0.002 $\chi^2$/NDF:7591846.4/50

All: 17.098+/-0.002 $\chi^2$/NDF: 13303452.4/93

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.013+/-0.007 $\chi^2$/NDF: 23.9/19

Left Out: -0.012+/-0.004 $\chi^2$/NDF:53.4/24

Right Out: 0.016+/-0.007 $\chi^2$/NDF: 23.8/25

Left In: -0.003+/-0.004 $\chi^2$/NDF:19.8/22

Left: -0.007+/-0.003 $\chi^2$/NDF: 75.7/47

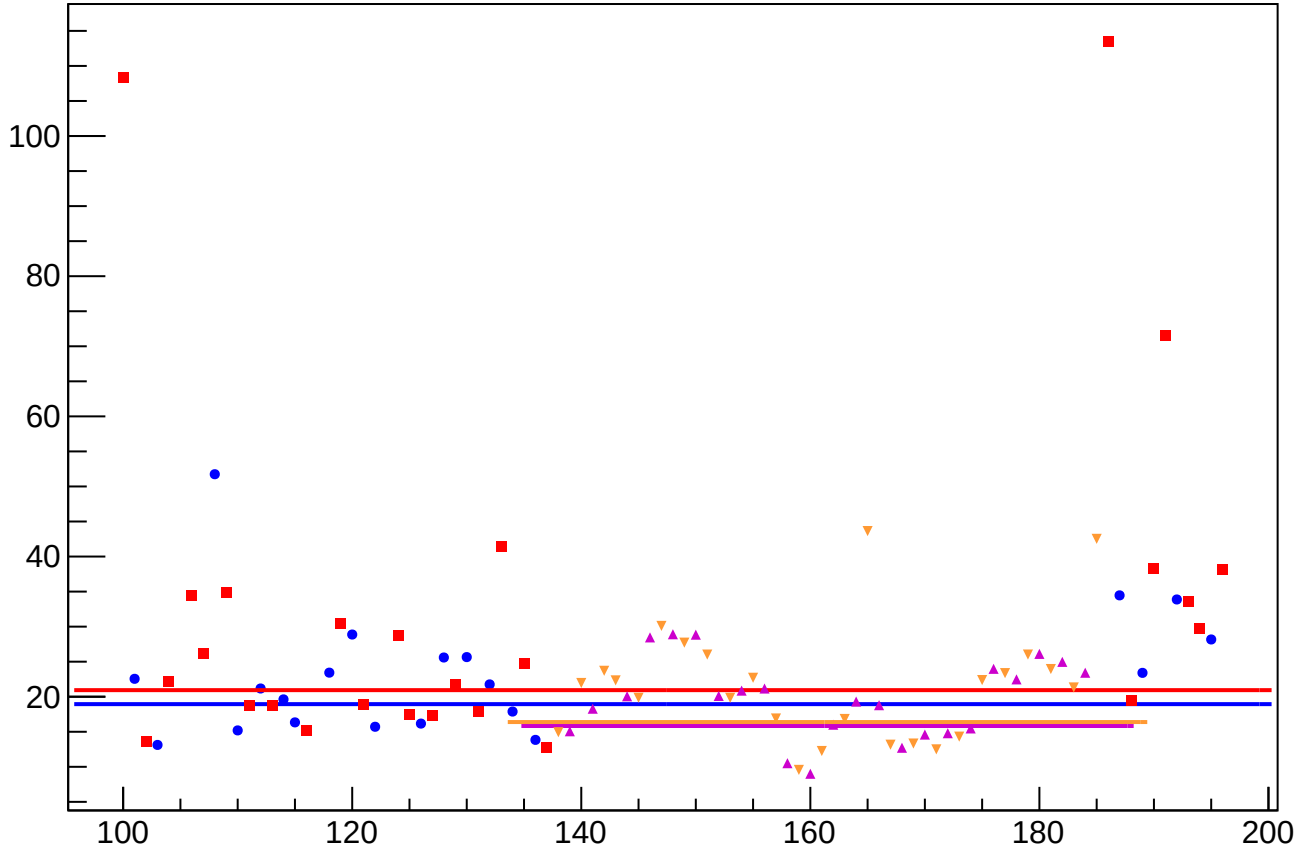
Right: 0.001+/-0.005 $\chi^2$/NDF: 56.5/45

In: -0.005+/-0.003 $\chi^2$/NDF:45.3/42

Out: -0.005+/-0.004 $\chi^2$/NDF:89.3/50

All: -0.005+/-0.002 $\chi^2$/NDF: 134.6/93

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 18.943+/-0.005 $\chi^2$/NDF: 1673761.0/19

Left Out: 16.387+/-0.003 $\chi^2$/NDF:4030277.2/24

Right Out: 20.939+/-0.005 $\chi^2$/NDF: 2916458.3/25

Left In: 15.823+/-0.003 $\chi^2$/NDF:3654834.3/22

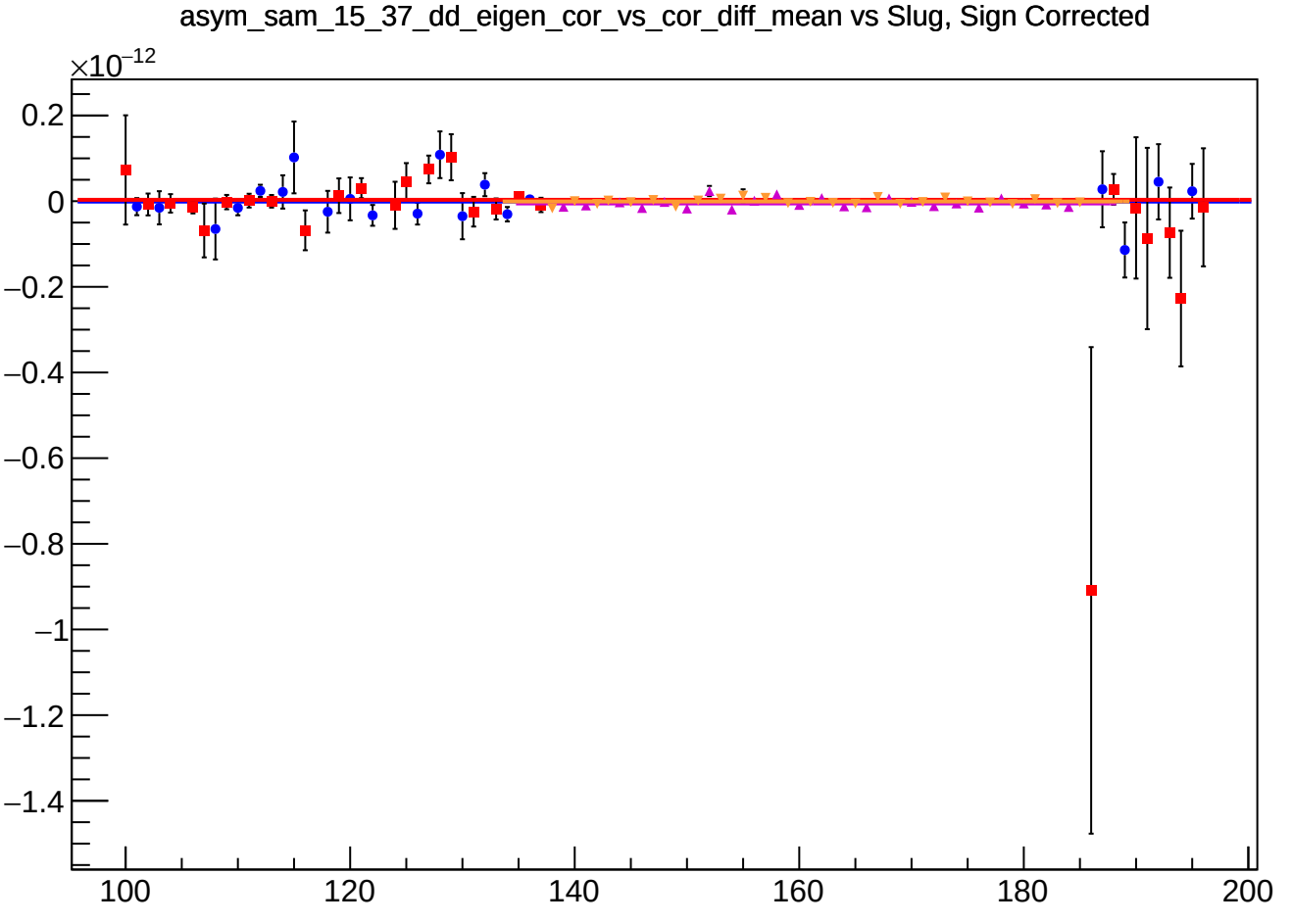
Left: 16.104+/-0.002 $\chi^2$/NDF: 7704470.7/47

Right: 19.918+/-0.003 $\chi^2$/NDF: 4675638.5/45

In: 16.646+/-0.002 $\chi^2$/NDF:5642955.4/42

Out: 17.559+/-0.002 $\chi^2$/NDF:7591846.4/50

All: 17.098+/-0.002 $\chi^2$/NDF: 13303452.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 23.9/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:19.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 25.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:37.9/22

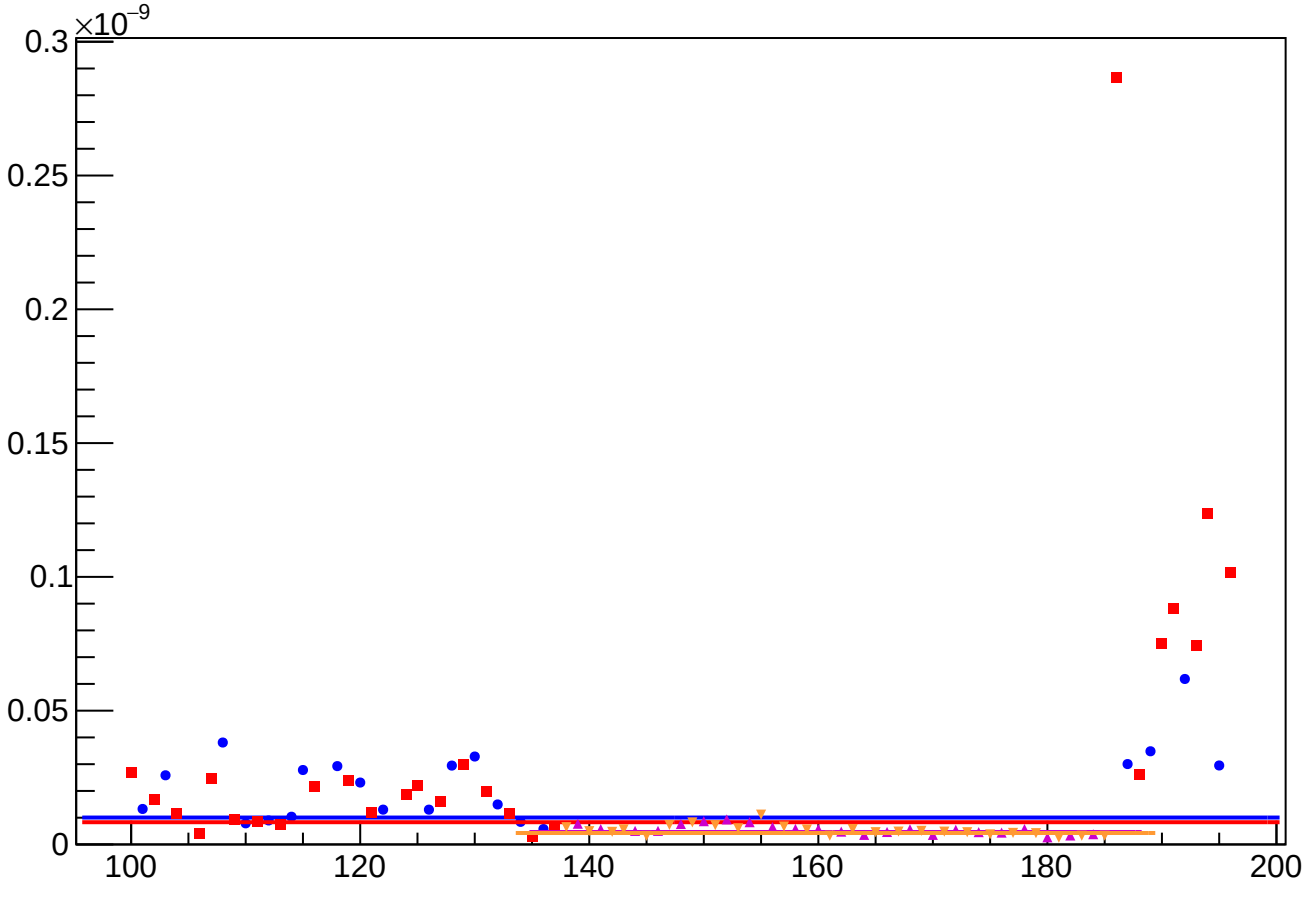
Left: -0.000+/-0.000 $\chi^2$/NDF: 63.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 49.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:62.5/42

Out: -0.000+/-0.000 $\chi^2$/NDF:44.9/50

All: -0.000+/-0.000 $\chi^2$/NDF: 113.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3932388.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2583638.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7476354.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2508440.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 5171958.0/47

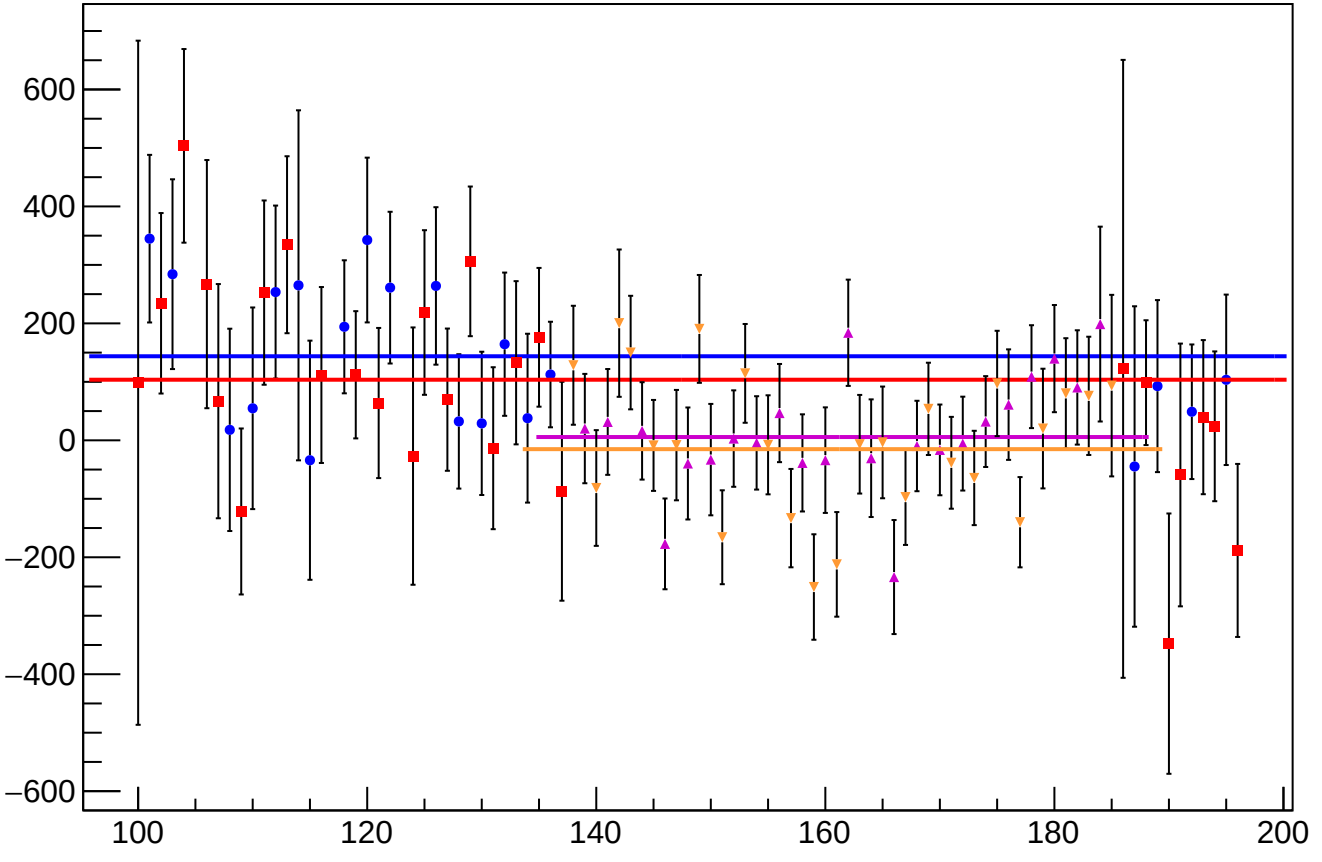
Right: 0.000+/-0.000 $\chi^2$/NDF: 11544275.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:8592835.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:11583279.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 20300234.2/93

# reg_asym_sam_24_68_dd_mean vs Slug, Sign Corrected




Right In: 143.758+/-31.030 $\chi^2$/NDF: 12.6/19

Left Out: -15.100+/-17.957 $\chi^2$/NDF:41.6/24

Right Out: 103.633+/-29.490 $\chi^2$/NDF: 28.0/25

Left In: 5.629+/-18.382 $\chi^2$/NDF:23.0/22

Left: -4.977+/-12.845 $\chi^2$/NDF: 65.3/47

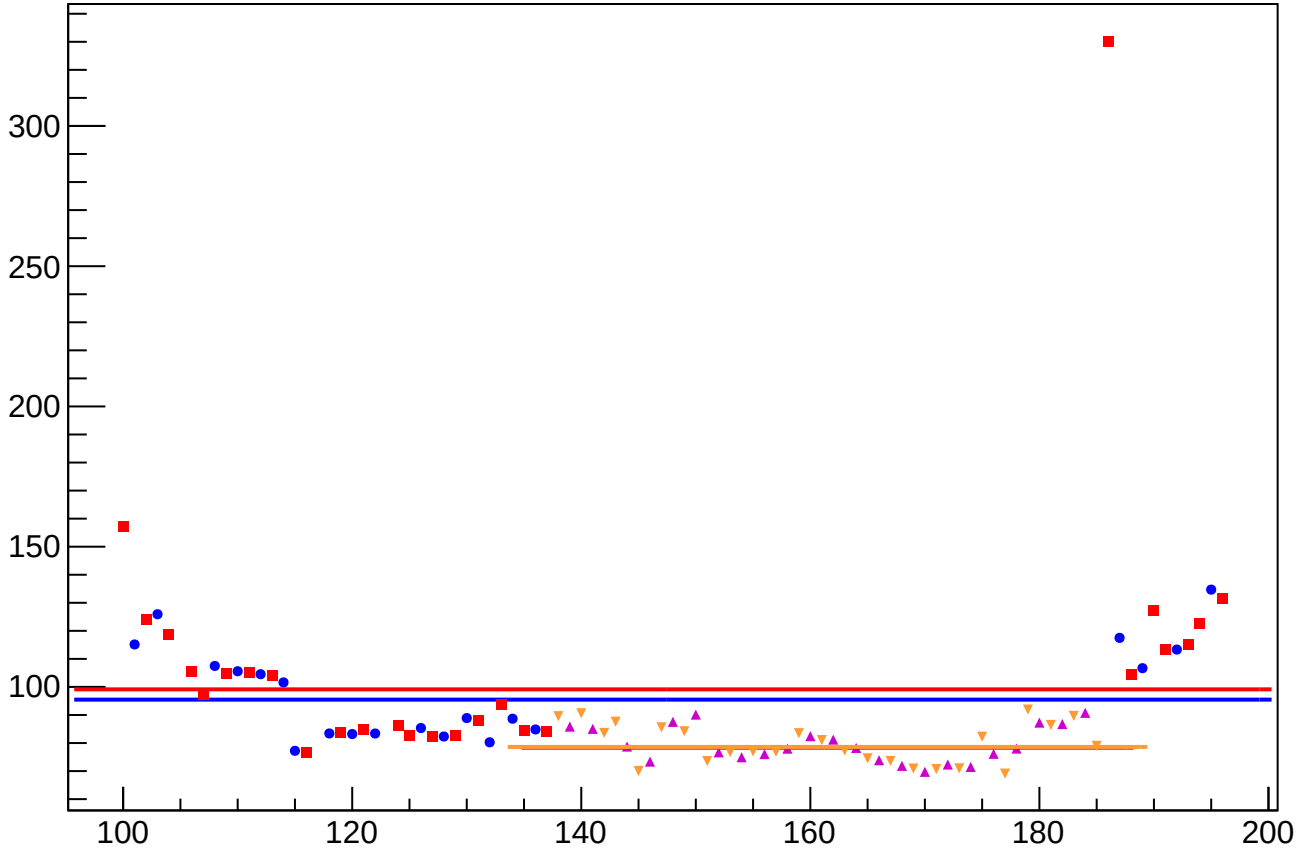
Right: 122.675+/-21.376 $\chi^2$/NDF: 41.5/45

In: 41.510+/-15.815 $\chi^2$/NDF:50.3/42

Out: 17.016+/-15.337 $\chi^2$/NDF:81.4/50

All: 28.888+/-11.010 $\chi^2$/NDF: 133.0/93

# reg_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 95.479+/-0.022 $\chi^2$/NDF: 527683.3/19

Left Out: 78.618+/-0.013 $\chi^2$/NDF:307235.6/24

Right Out: 99.145+/-0.021 $\chi^2$/NDF: 1006172.9/25

Left In: 78.334+/-0.013 $\chi^2$/NDF:209146.2/22

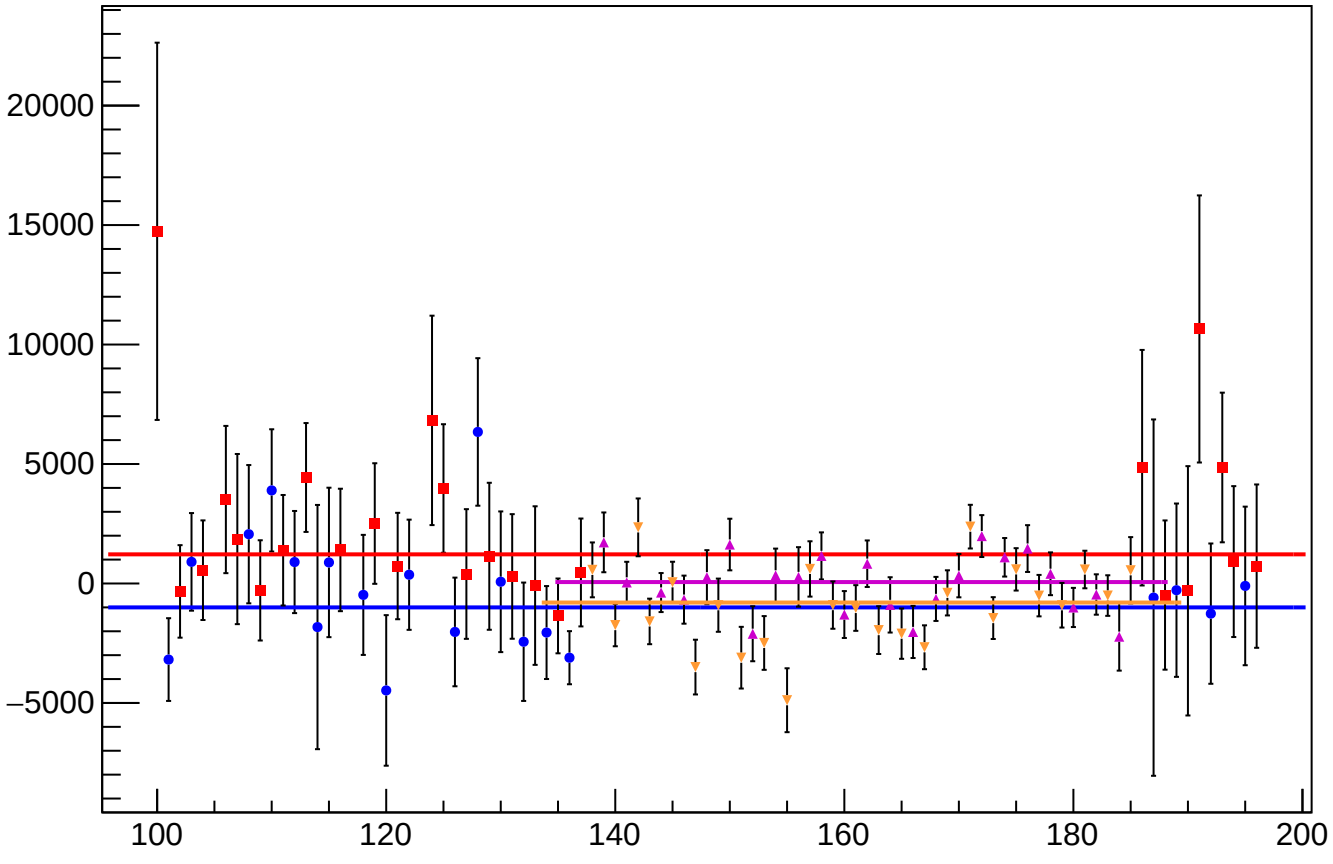
Left: 78.480+/-0.009 $\chi^2$/NDF: 516625.8/47

Right: 97.405+/-0.015 $\chi^2$/NDF: 1548528.6/45

In: 82.788+/-0.011 $\chi^2$/NDF:1188765.0/42

Out: 84.170+/-0.011 $\chi^2$/NDF:2020302.8/50

All: 83.500+/-0.008 $\chi^2$/NDF: 3216945.0/93




Right In: -1000.706+/-526.743 $\chi^2$/NDF: 20.4/19

Left Out: -797.000+/-197.884 $\chi^2$/NDF:59.5/24

Right Out: 1219.384+/-527.798 $\chi^2$/NDF: 18.1/25

Left In: 59.494+/-204.437 $\chi^2$/NDF:30.5/22

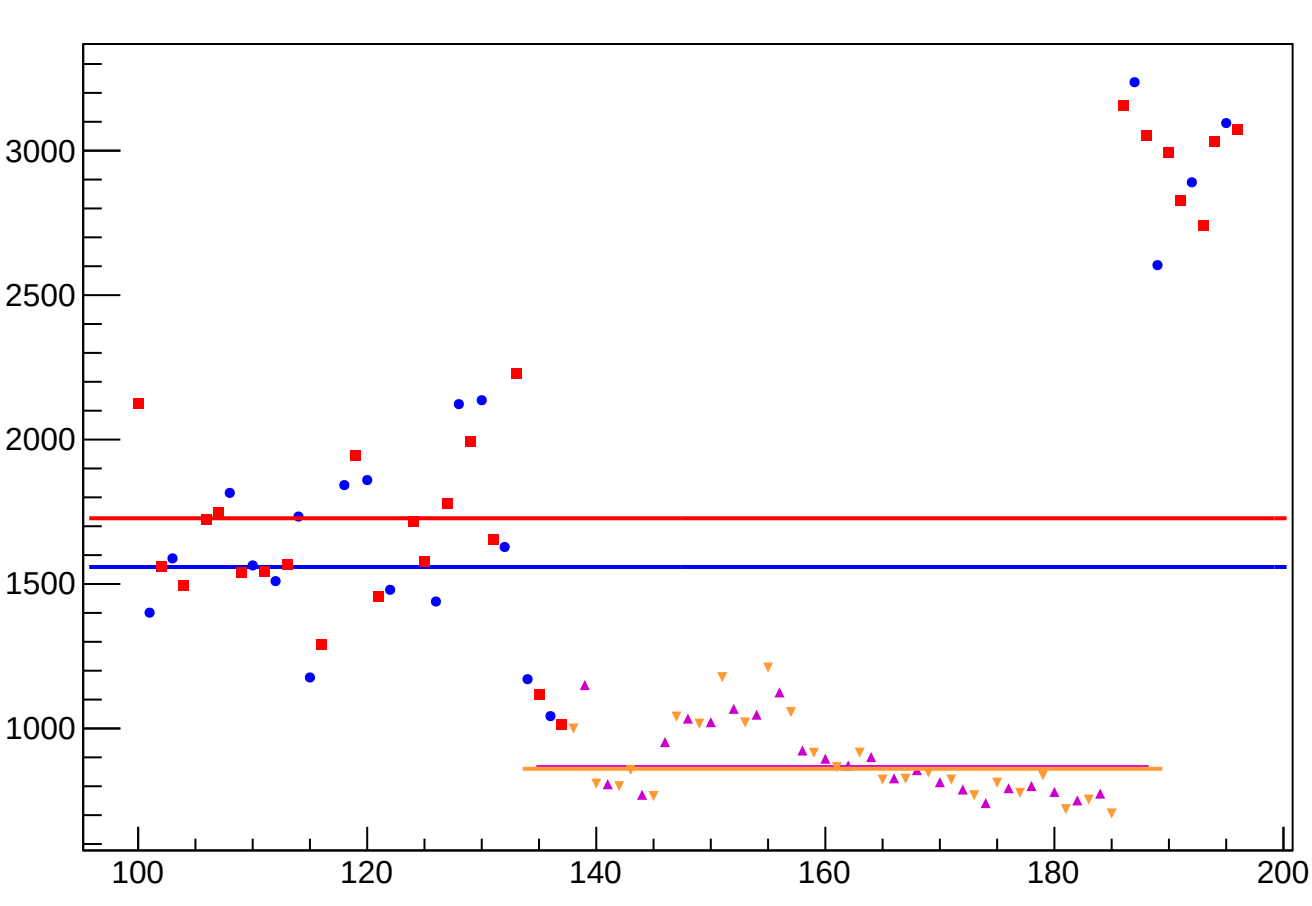
Left: -382.700+/-142.185 $\chi^2$/NDF: 99.0/47

Right: 107.117+/-372.836 $\chi^2$/NDF: 47.4/45

In: -79.300+/-190.586 $\chi^2$/NDF:54.4/42

Out: -548.494+/-185.289 $\chi^2$/NDF:90.4/50

All: -320.508+/-132.852 $\chi^2$/NDF: 147.9/93




Right In: 1558.933+/-0.372 $\chi^2$/NDF: 1881919.3/19

Left Out: 860.492+/-0.140 $\chi^2$/NDF:699252.0/24

Right Out: 1727.594+/-0.373 $\chi^2$/NDF: 2343961.4/25

Left In: 866.351+/-0.145 $\chi^2$/NDF:613257.7/22

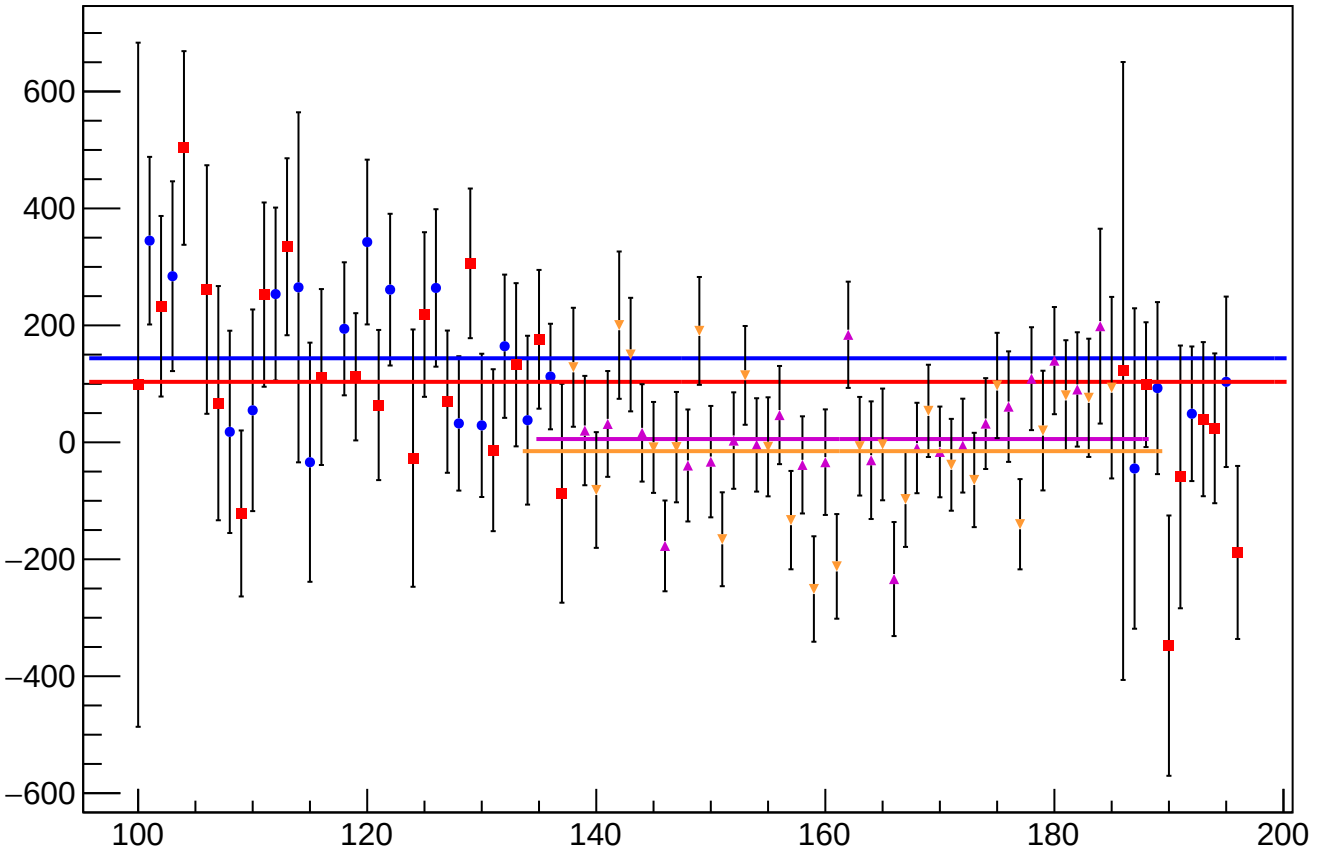
Left: 863.326+/-0.101 $\chi^2$/NDF: 1313357.9/47

Right: 1643.095+/-0.264 $\chi^2$/NDF: 4328201.8/45

In: 957.020+/-0.135 $\chi^2$/NDF:5500127.4/42

Out: 967.357+/-0.131 $\chi^2$/NDF:7775966.2/50

All: 962.334+/-0.094 $\chi^2$/NDF: 13279118.4/93




Right In: 143.755+/-31.030 $\chi^2$/NDF: 12.6/19

Left Out: -15.098+/-17.957 $\chi^2$/NDF:41.6/24

Right Out: 103.439+/-29.492 $\chi^2$/NDF: 27.9/25

Left In: 5.626+/-18.382 $\chi^2$/NDF:23.0/22

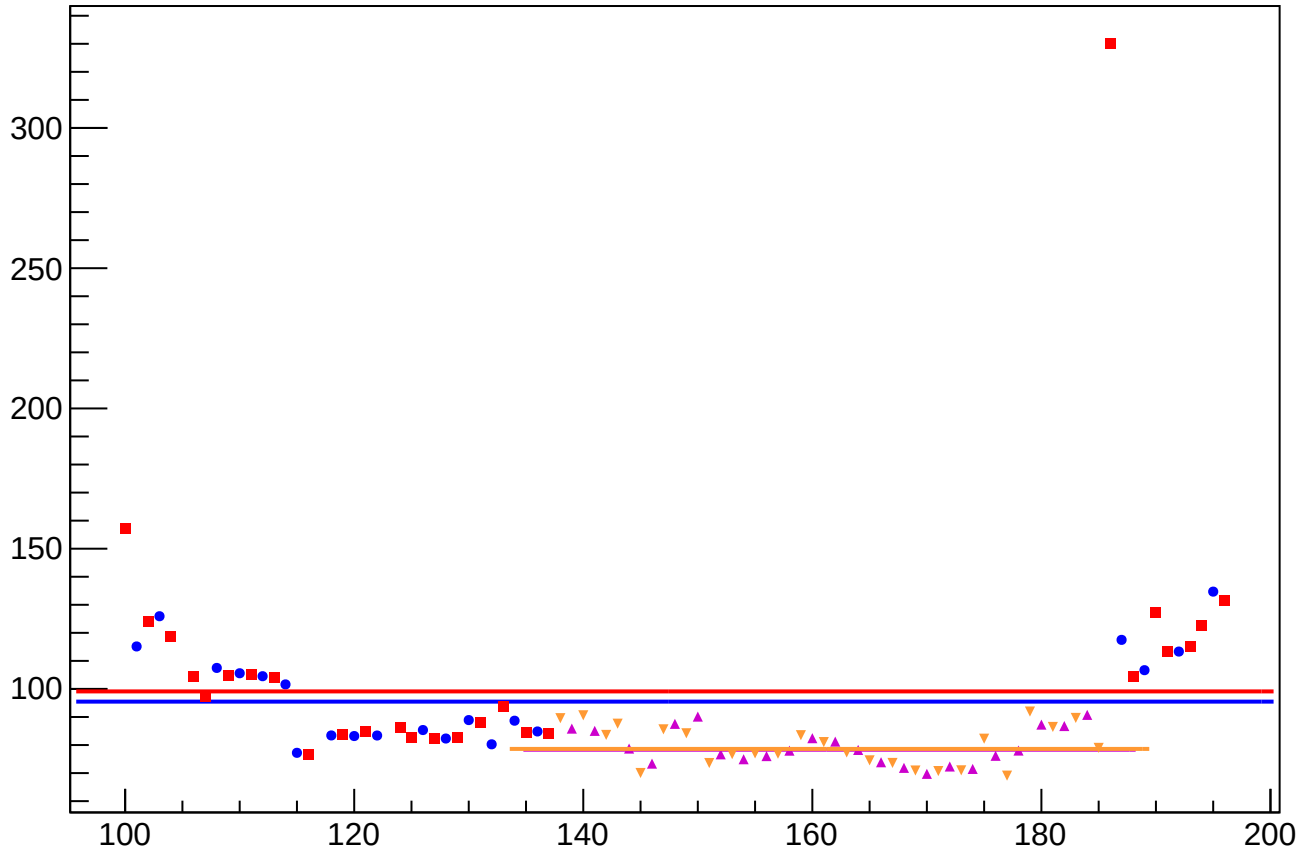
Left: -4.978+/-12.845 $\chi^2$/NDF: 65.3/47

Right: 122.573+/-21.377 $\chi^2$/NDF: 41.4/45

In: 41.507+/-15.815 $\chi^2$/NDF:50.3/42

Out: 16.962+/-15.337 $\chi^2$/NDF:81.3/50

All: 28.859+/-11.010 $\chi^2$/NDF: 132.9/93




Right In: 95.479+/-0.022 $\chi^2$/NDF: 527684.9/19

Left Out: 78.618+/-0.013 $\chi^2$/NDF:307235.6/24

Right Out: 99.121+/-0.021 $\chi^2$/NDF: 1005690.0/25

Left In: 78.334+/-0.013 $\chi^2$/NDF:209146.2/22

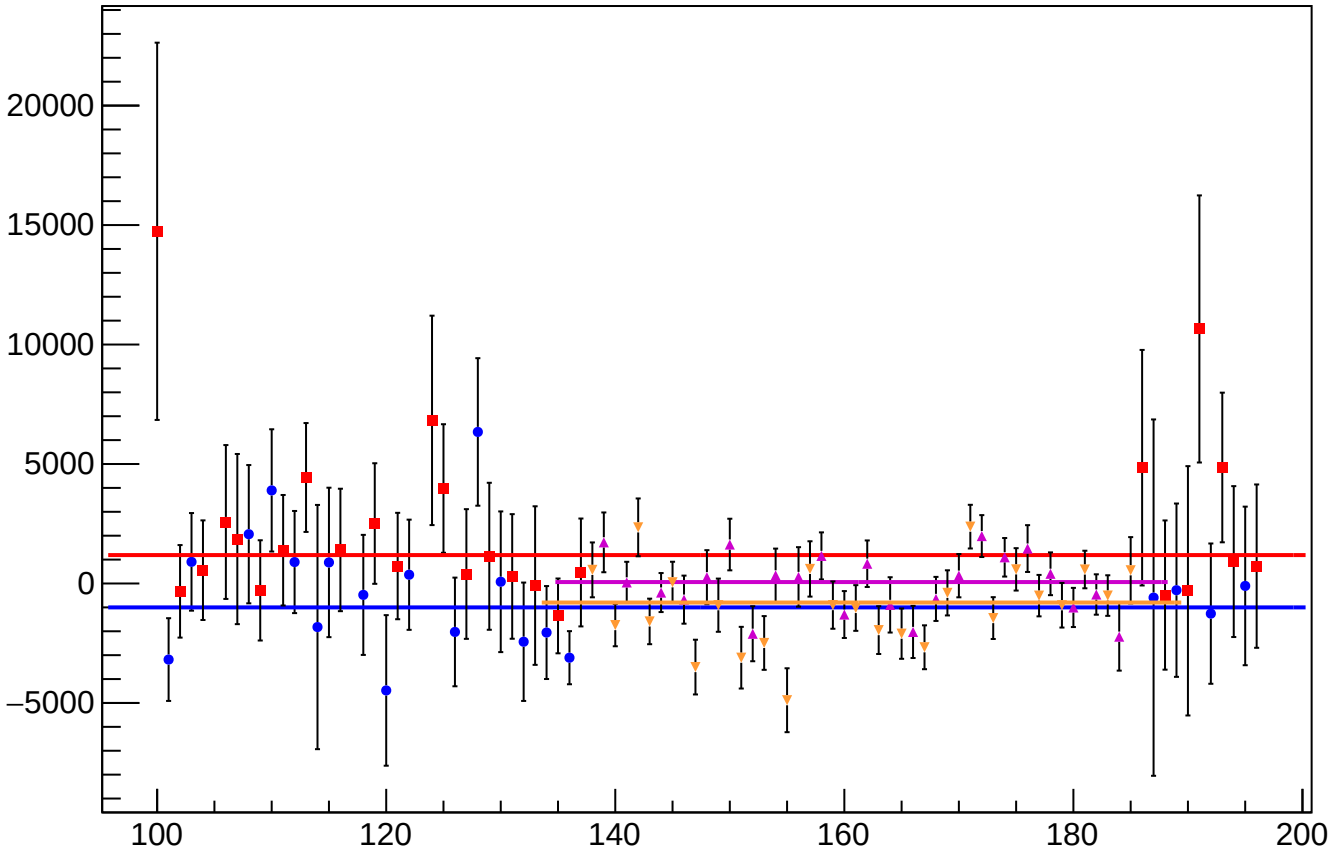
Left: 78.480+/-0.009 $\chi^2$/NDF: 516625.8/47

Right: 97.392+/-0.015 $\chi^2$/NDF: 1547855.8/45

In: 82.788+/-0.011 $\chi^2$/NDF:1188767.0/42

Out: 84.164+/-0.011 $\chi^2$/NDF:2018125.3/50

All: 83.497+/-0.008 $\chi^2$/NDF: 3214691.6/93




Right In: -1000.684+/-526.744 $\chi^2$/NDF: 20.4/19

Left Out: -797.000+/-197.884 $\chi^2$/NDF:59.5/24

Right Out: 1188.728+/-528.467 $\chi^2$/NDF: 17.7/25

Left In: 59.494+/-204.437 $\chi^2$/NDF:30.5/22

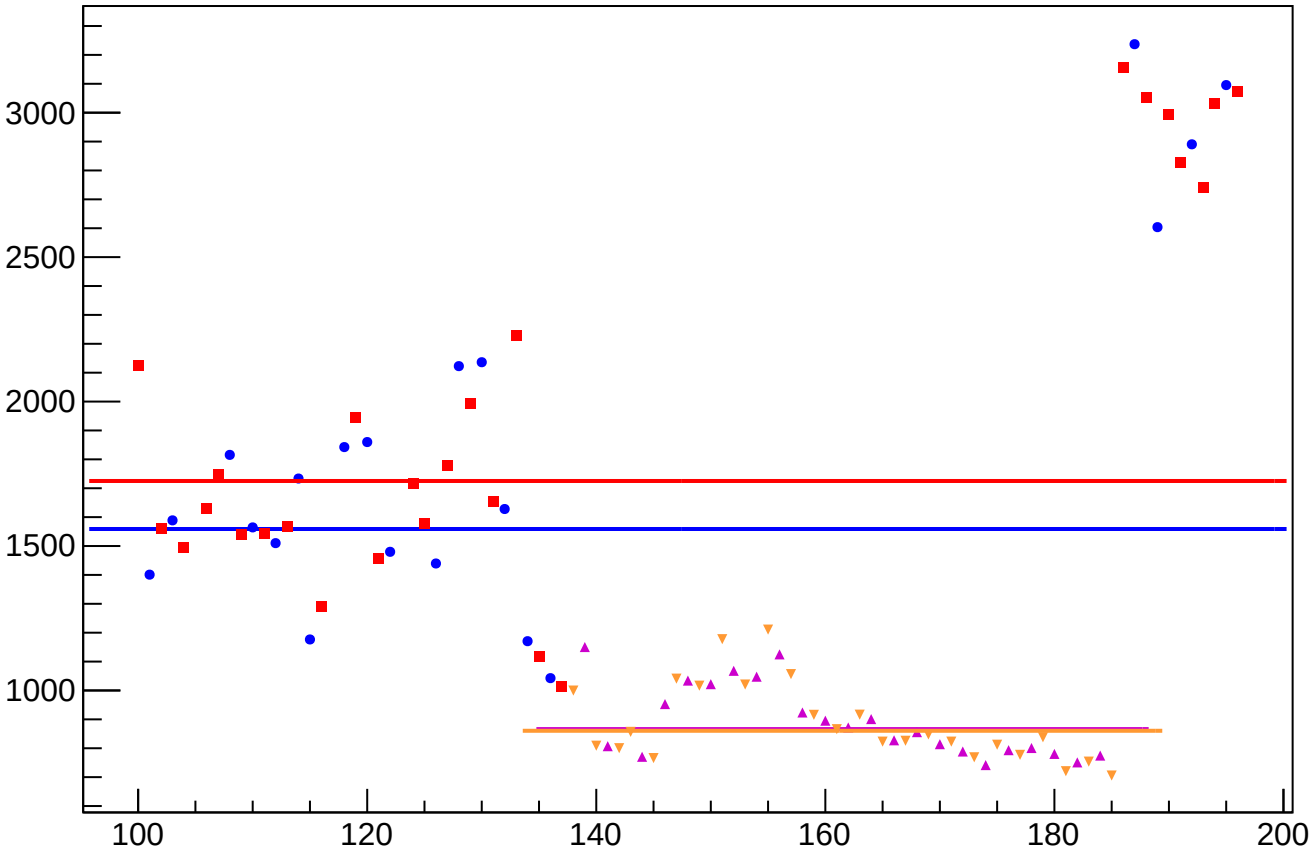
Left: -382.700+/-142.185 $\chi^2$/NDF: 99.0/47

Right: 90.448+/-373.072 $\chi^2$/NDF: 46.7/45

In: -79.297+/-190.586 $\chi^2$/NDF:54.4/42

Out: -552.815+/-185.318 $\chi^2$/NDF:89.6/50

All: -322.690+/-132.863 $\chi^2$/NDF: 147.1/93




Right In: 1558.937+/-0.372 $\chi^2$/NDF: 1881921.6/19

Left Out: 860.492+/-0.140 $\chi^2$/NDF:699250.7/24

Right Out: 1725.132+/-0.374 $\chi^2$/NDF: 2345682.2/25

Left In: 866.352+/-0.145 $\chi^2$/NDF:613256.3/22

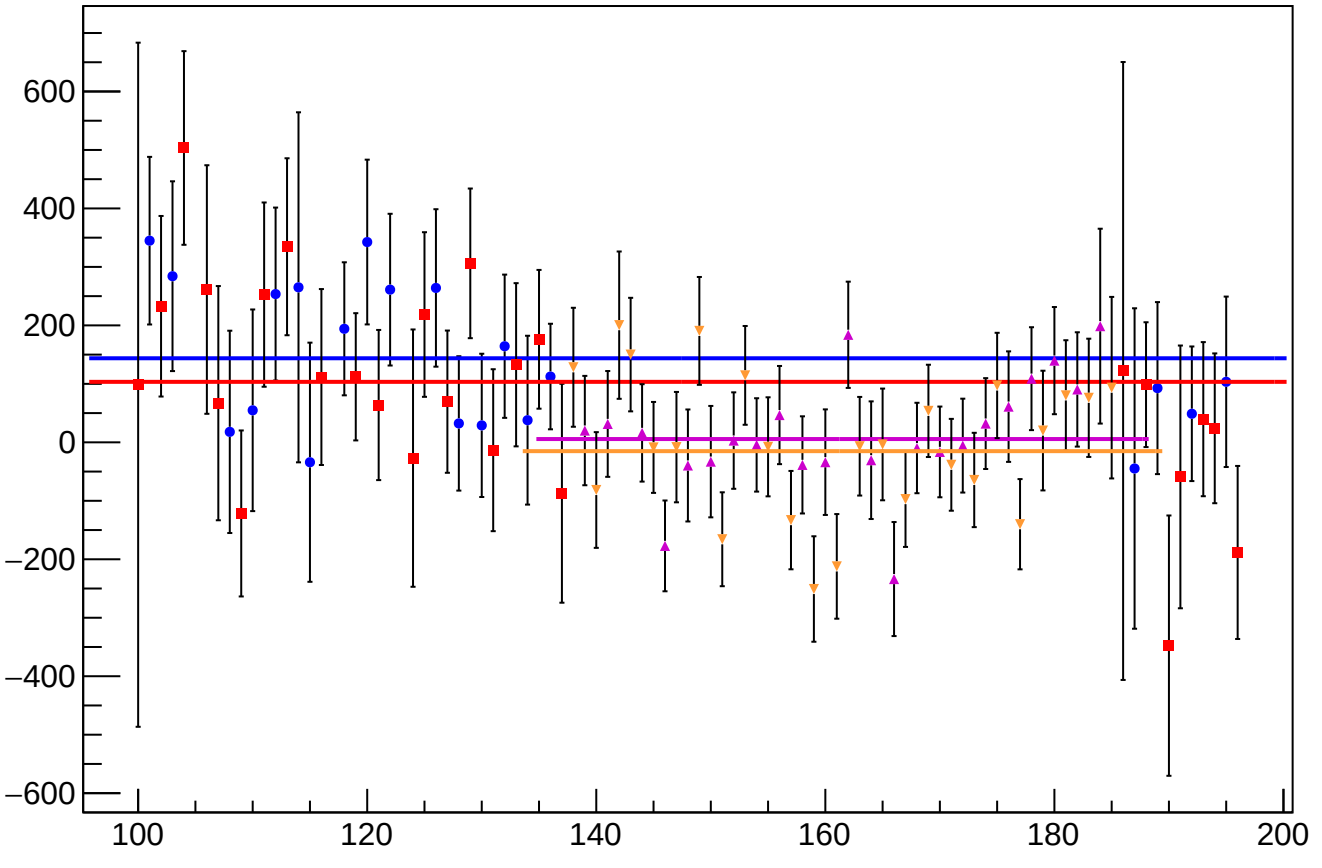
Left: 863.327+/-0.101 $\chi^2$/NDF: 1313355.3/47

Right: 1641.763+/-0.264 $\chi^2$/NDF: 4326828.7/45

In: 957.020+/-0.135 $\chi^2$/NDF:5500144.8/42

Out: 966.817+/-0.131 $\chi^2$/NDF:7740408.9/50

All: 962.056+/-0.094 $\chi^2$/NDF: 13243270.2/93




Right In: 143.755+/-31.030 $\chi^2$/NDF: 12.6/19

Left Out: -15.098+/-17.957 $\chi^2$/NDF:41.6/24

Right Out: 103.439+/-29.492 $\chi^2$/NDF: 27.9/25

Left In: 5.626+/-18.382 $\chi^2$/NDF:23.0/22

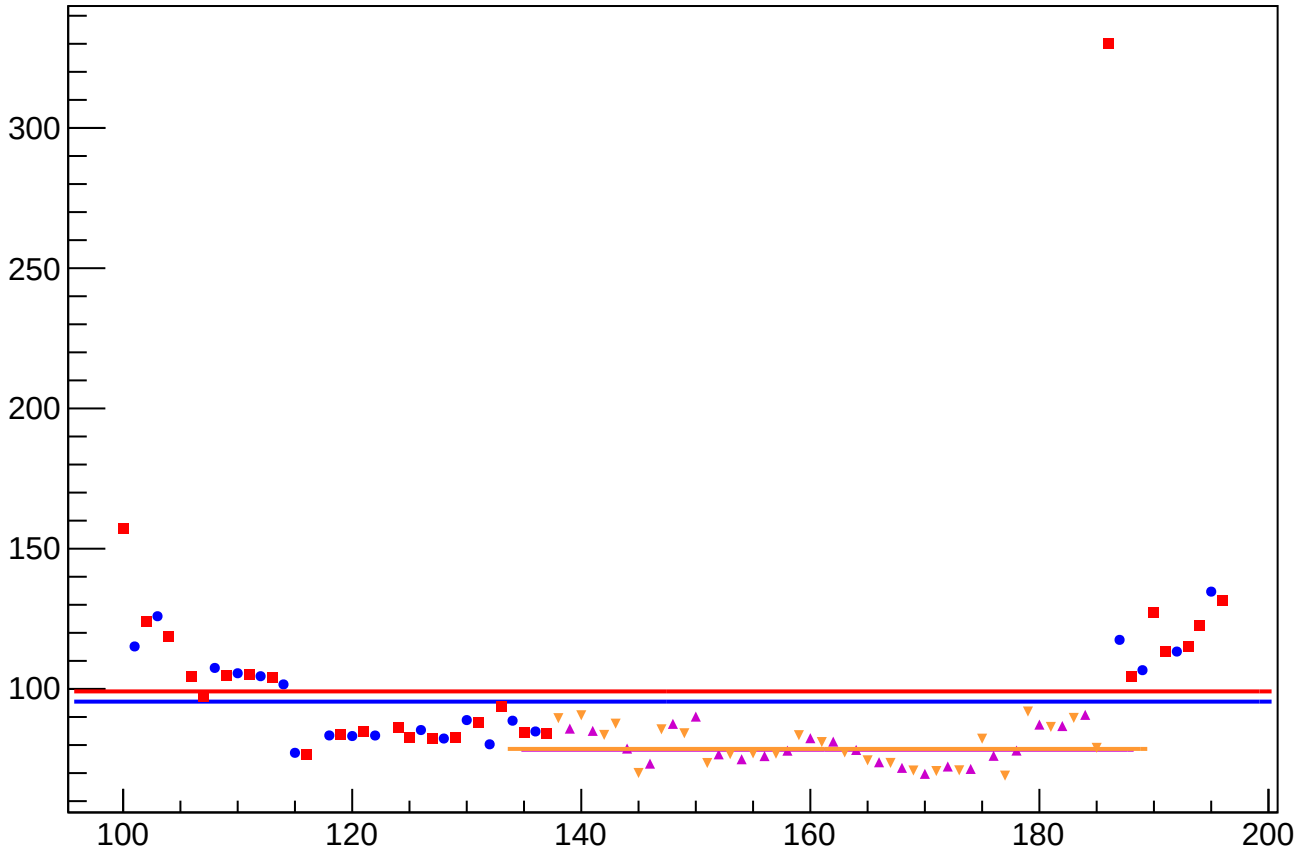
Left: -4.978+/-12.845 $\chi^2$/NDF: 65.3/47

Right: 122.573+/-21.377 $\chi^2$/NDF: 41.4/45

In: 41.507+/-15.815 $\chi^2$/NDF:50.3/42

Out: 16.962+/-15.337 $\chi^2$/NDF:81.3/50

All: 28.859+/-11.010 $\chi^2$/NDF: 132.9/93




Right In: 95.479+/-0.022 $\chi^2$/NDF: 527684.9/19

Left Out: 78.618+/-0.013 $\chi^2$/NDF:307235.6/24

Right Out: 99.121+/-0.021 $\chi^2$/NDF: 1005690.0/25

Left In: 78.334+/-0.013 $\chi^2$/NDF:209146.2/22

Left: 78.480+/-0.009 $\chi^2$/NDF: 516625.8/47

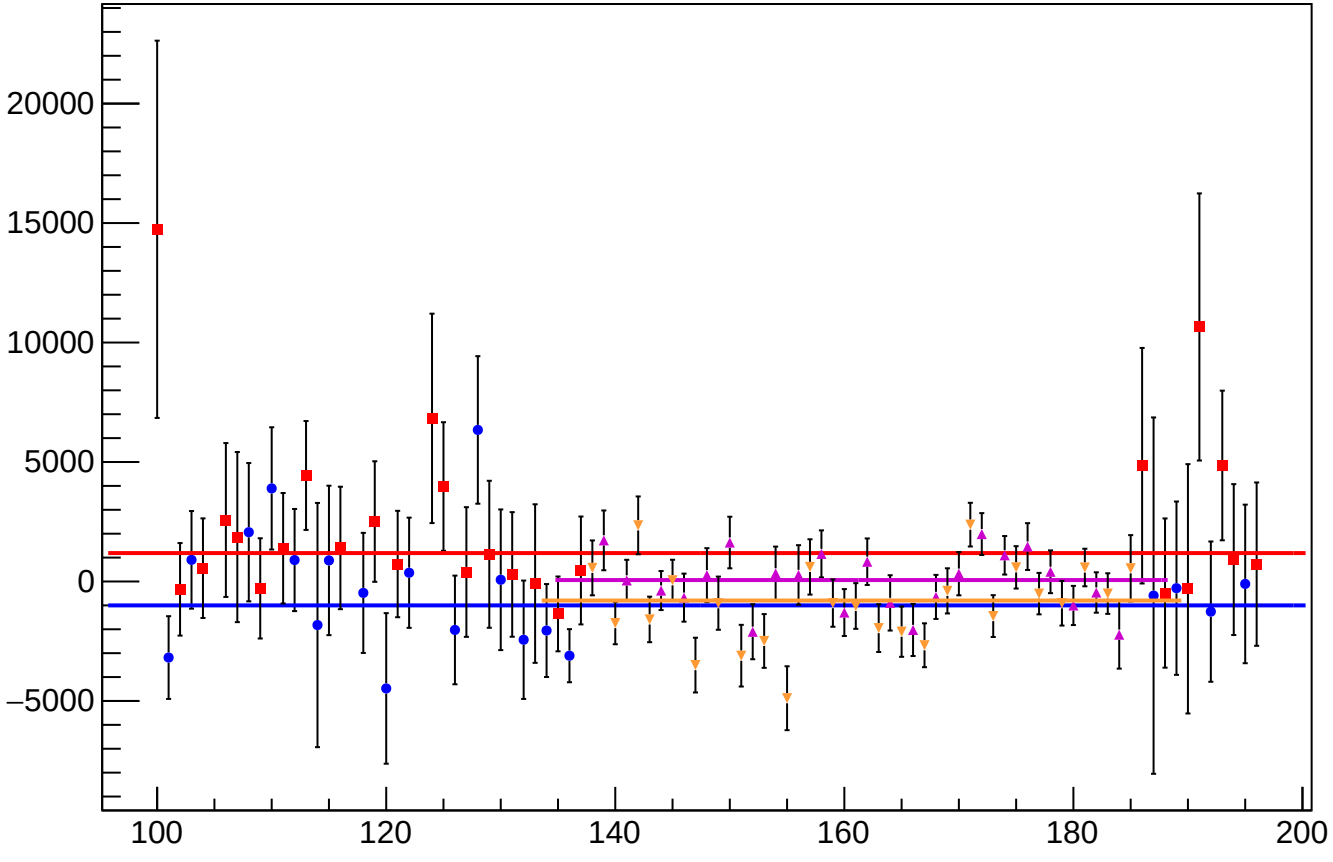
Right: 97.392+/-0.015 $\chi^2$/NDF: 1547855.8/45

In: 82.788+/-0.011 $\chi^2$/NDF:1188767.0/42

Out: 84.164+/-0.011 $\chi^2$/NDF:2018125.3/50

All: 83.497+/-0.008 $\chi^2$/NDF: 3214691.6/93

asym_sam_24_68_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -1000.684+/-526.744 $\chi^2$/NDF: 20.4/19

Left Out: -797.000+/-197.884 $\chi^2$/NDF:59.5/24

Right Out: 1188.728+/-528.467 $\chi^2$/NDF: 17.7/25

Left In: 59.494+/-204.437 $\chi^2$/NDF:30.5/22

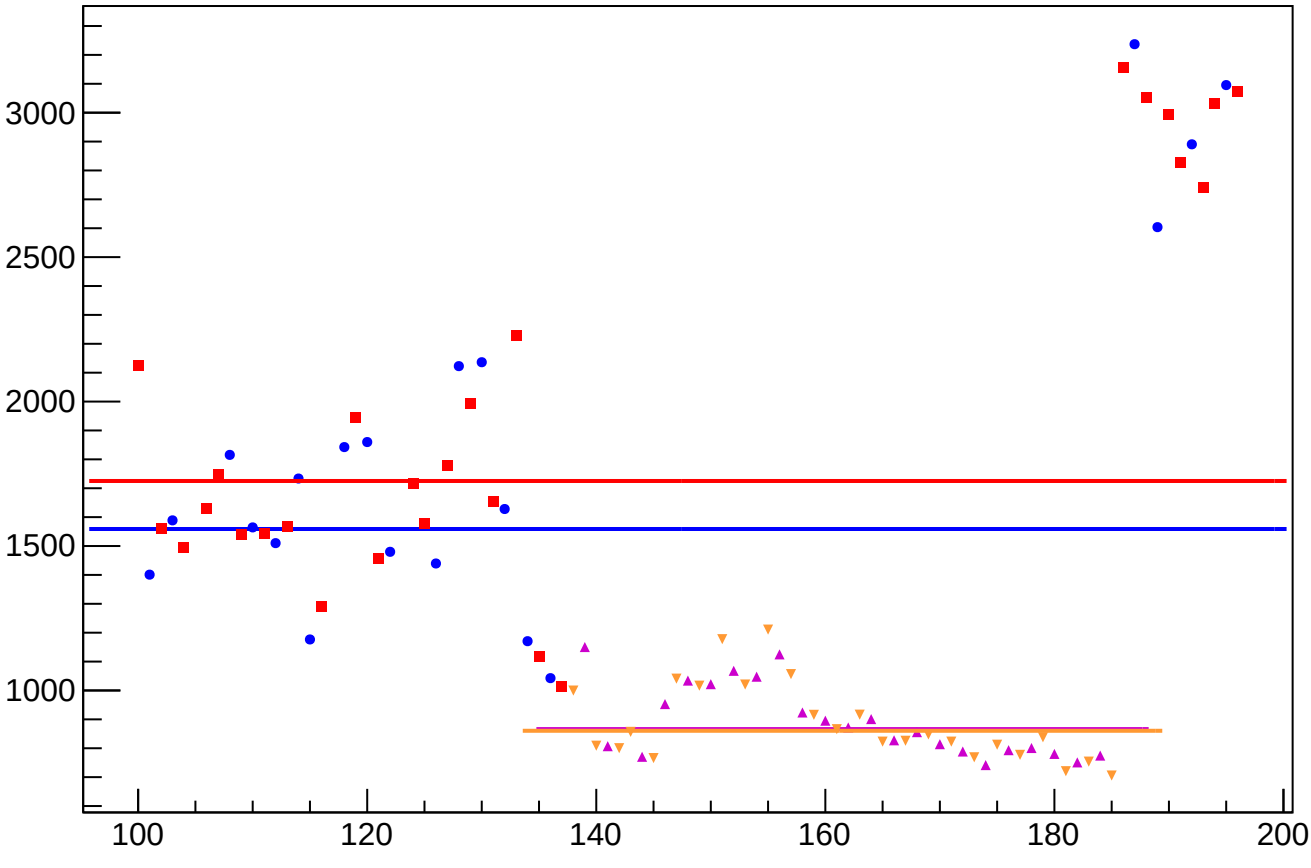
Left: -382.700+/-142.185 $\chi^2$/NDF: 99.0/47

Right: 90.448+/-373.072 $\chi^2$/NDF: 46.7/45

In: -79.297+/-190.586 $\chi^2$/NDF:54.4/42

Out: -552.815+/-185.318 $\chi^2$/NDF:89.6/50

All: -322.690+/-132.863 $\chi^2$/NDF: 147.1/93




Right In: 1558.937+/-0.372 $\chi^2$/NDF: 1881921.6/19

Left Out: 860.492+/-0.140 $\chi^2$/NDF:699250.7/24

Right Out: 1725.132+/-0.374 $\chi^2$/NDF: 2345682.2/25

Left In: 866.352+/-0.145 $\chi^2$/NDF:613256.3/22

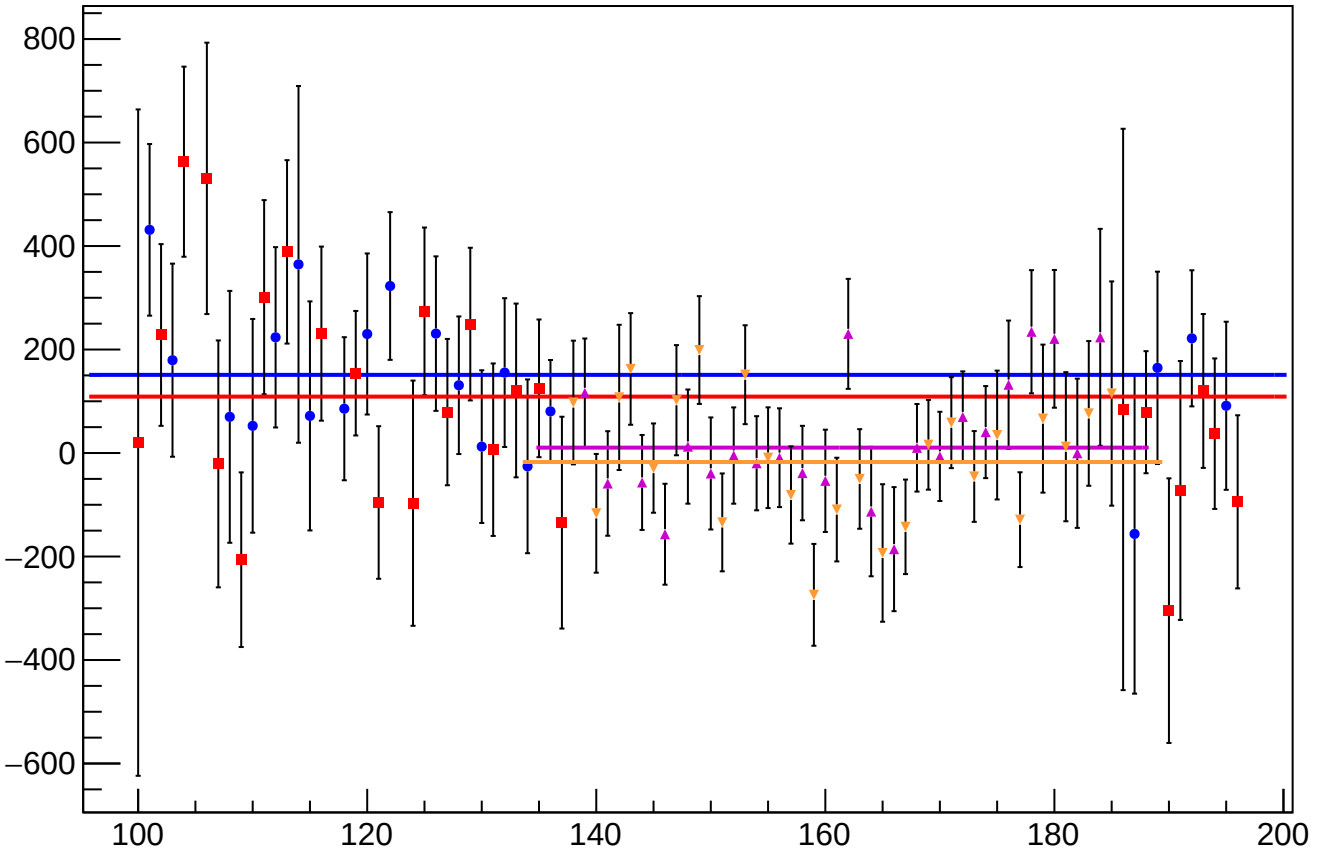
Left: 863.327+/-0.101 $\chi^2$/NDF: 1313355.3/47

Right: 1641.763+/-0.264 $\chi^2$/NDF: 4326828.7/45

In: 957.020+/-0.135 $\chi^2$/NDF:5500144.8/42

Out: 966.817+/-0.131 $\chi^2$/NDF:7740408.9/50

All: 962.056+/-0.094 $\chi^2$/NDF: 13243270.2/93




Right In: 151.047+/-35.855 $\chi^2$/NDF: 10.1/19

Left Out: -17.356+/-20.987 $\chi^2$/NDF:31.2/24

Right Out: 109.014+/-33.692 $\chi^2$/NDF: 28.6/25

Left In: 10.412+/-21.503 $\chi^2$/NDF:22.6/22

Left: -3.810+/-15.019 $\chi^2$/NDF: 54.7/47

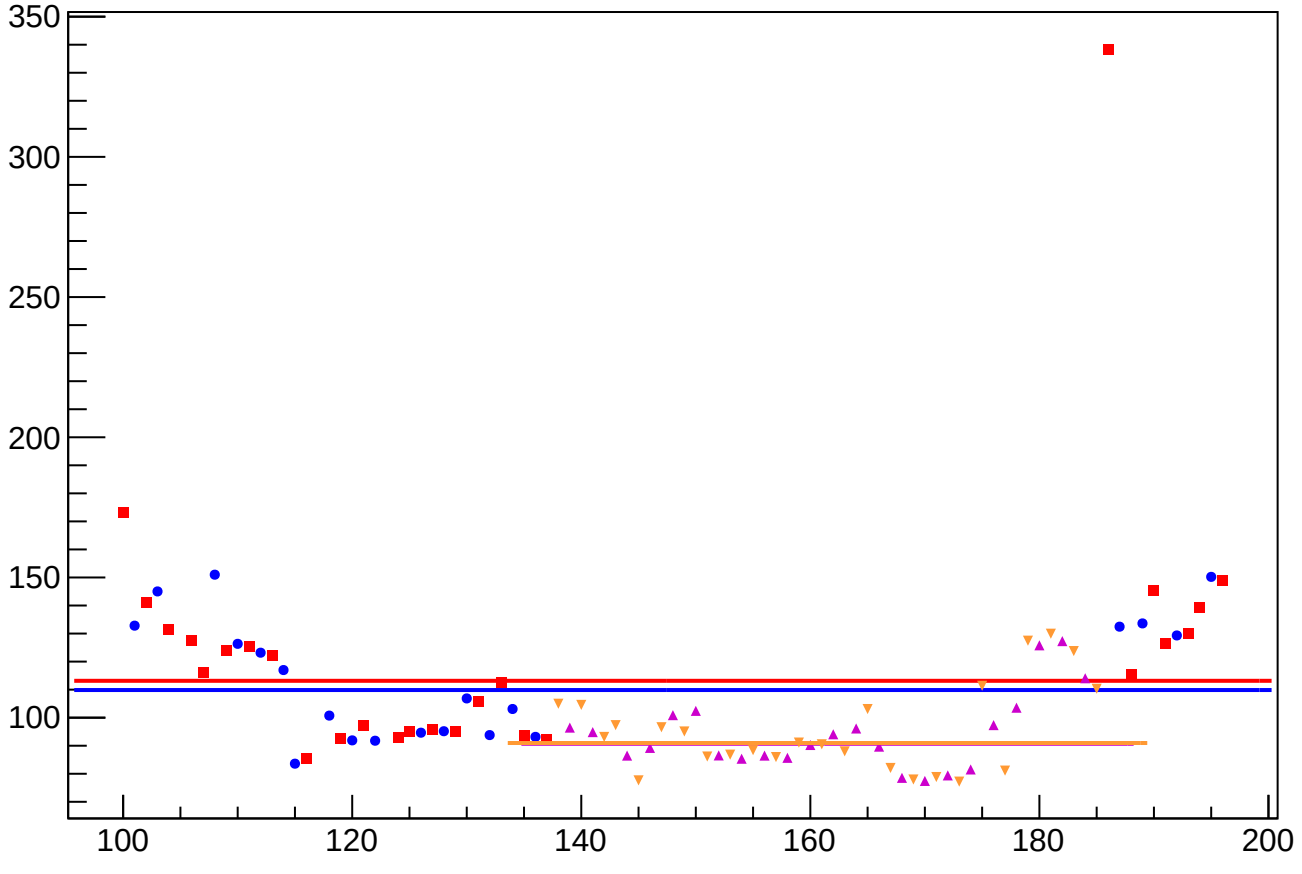
Right: 128.725+/-24.553 $\chi^2$/NDF: 39.4/45

In: 47.614+/-18.441 $\chi^2$/NDF:44.0/42

Out: 17.969+/-17.814 $\chi^2$/NDF:69.9/50

All: 32.278+/-12.812 $\chi^2$/NDF: 115.3/93

# dit_asym_sam_24_68_dd_rms vs Slug, Sign Corrected




Right In: 109.858+/-0.025 $\chi^2$/NDF: 628969.5/19

Left Out: 90.967+/-0.015 $\chi^2$/NDF:784523.6/24

Right Out: 113.150+/-0.024 $\chi^2$/NDF: 982916.9/25

Left In: 90.690+/-0.015 $\chi^2$/NDF:545969.6/22

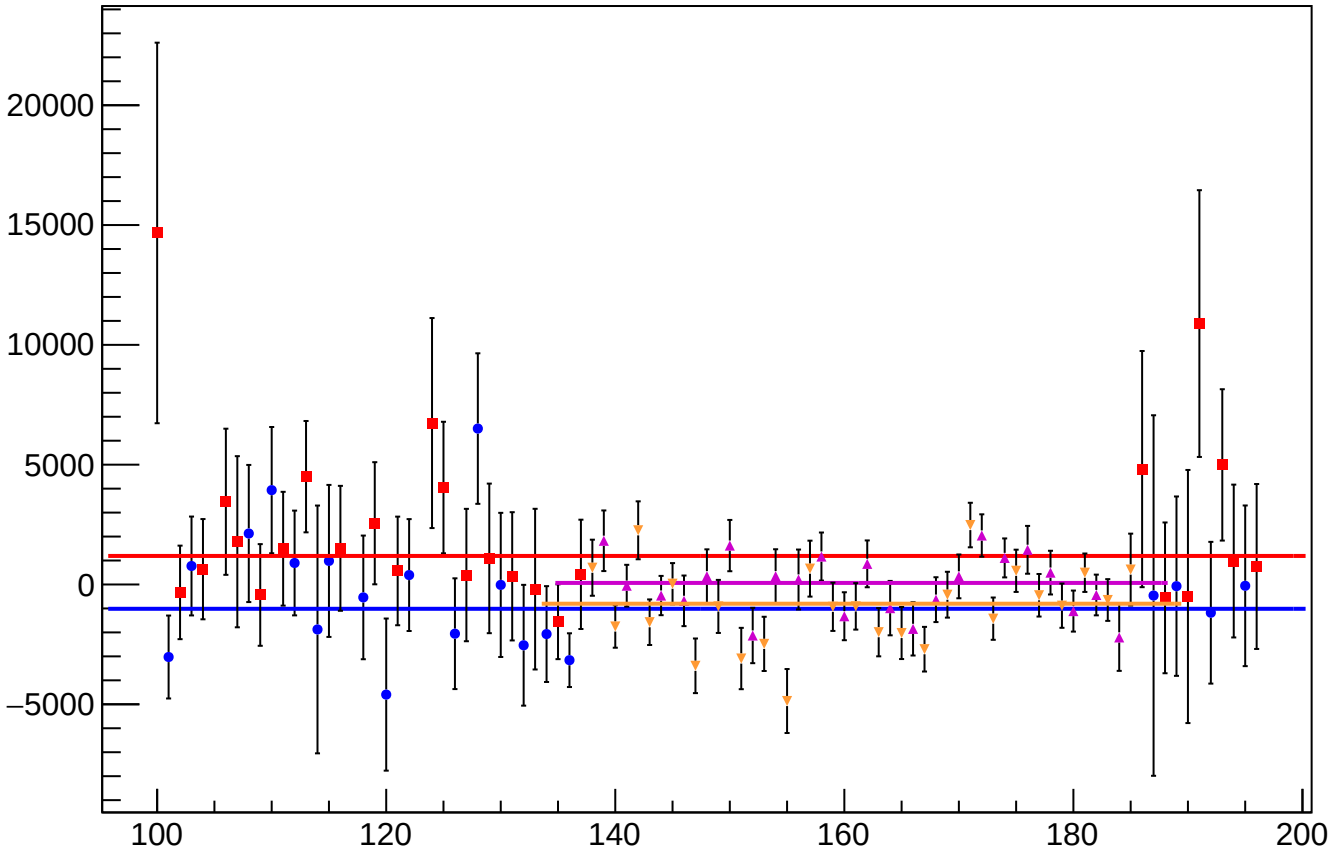
Left: 90.832+/-0.011 $\chi^2$/NDF: 1330663.0/47

Right: 111.606+/-0.017 $\chi^2$/NDF: 1620838.6/45

In: 95.761+/-0.013 $\chi^2$/NDF:1595325.3/42

Out: 97.168+/-0.013 $\chi^2$/NDF:2392069.0/50

All: 96.489+/-0.009 $\chi^2$/NDF: 3993419.4/93




Right In: -1014.643+/-533.905 $\chi^2$/NDF: 20.2/19

Left Out: -802.532+/-199.851 $\chi^2$/NDF:58.3/24

Right Out: 1191.046+/-533.239 $\chi^2$/NDF: 18.9/25

Left In: 65.218+/-206.677 $\chi^2$/NDF:30.7/22

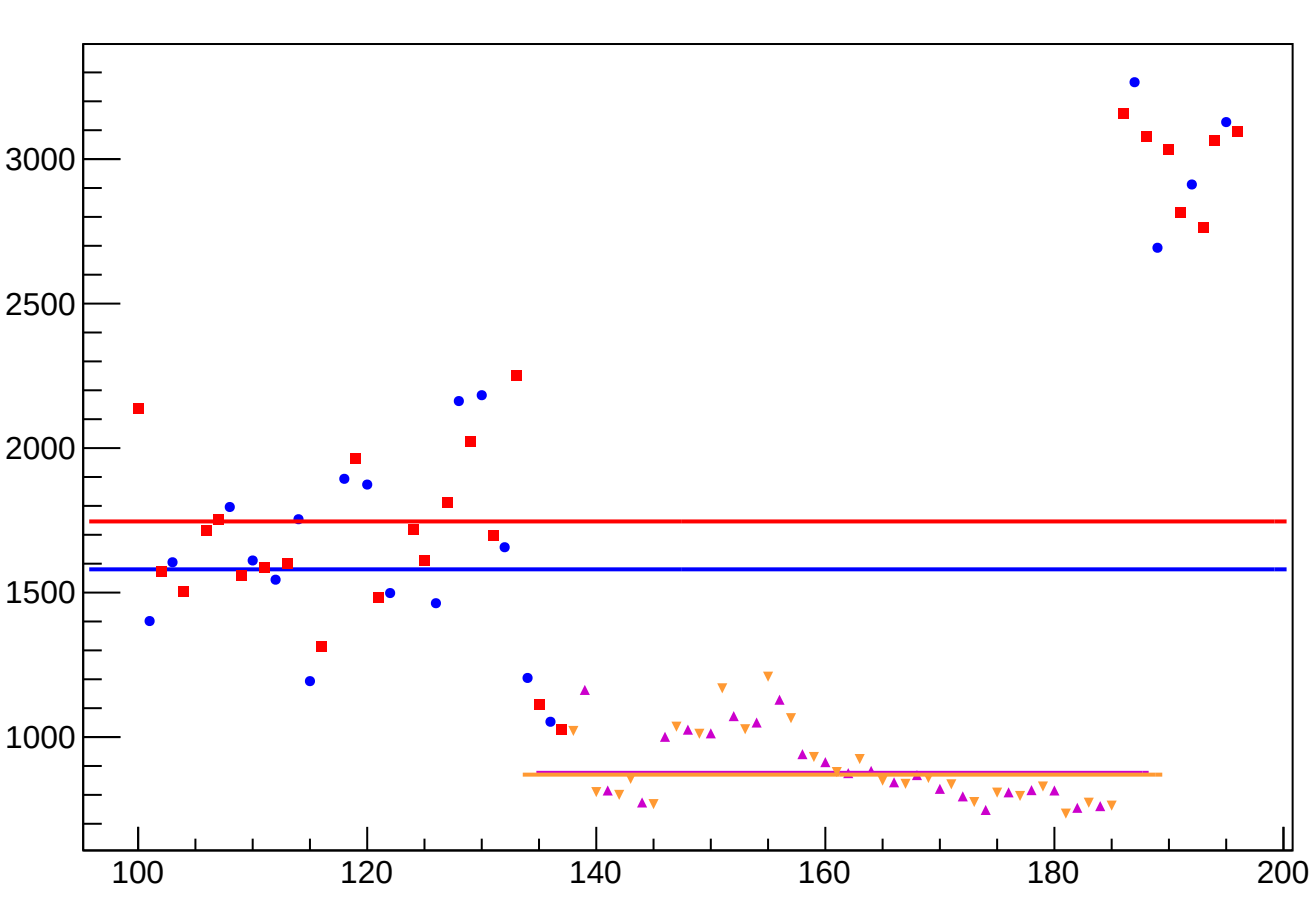
Left: -383.224+/-143.669 $\chi^2$/NDF: 98.1/47

Right: 89.578+/-377.292 $\chi^2$/NDF: 47.6/45

In: -75.511+/-192.740 $\chi^2$/NDF:54.5/42

Out: -556.993+/-187.139 $\chi^2$/NDF:89.4/50

All: -323.349+/-134.264 $\chi^2$/NDF: 147.1/93




Right In: 1580.429+/-0.378 $\chi^2$/NDF: 1892844.1/19

Left Out: 870.009+/-0.141 $\chi^2$/NDF:647274.1/24

Right Out: 1746.187+/-0.377 $\chi^2$/NDF: 2344112.9/25

Left In: 876.273+/-0.146 $\chi^2$/NDF:597200.7/22

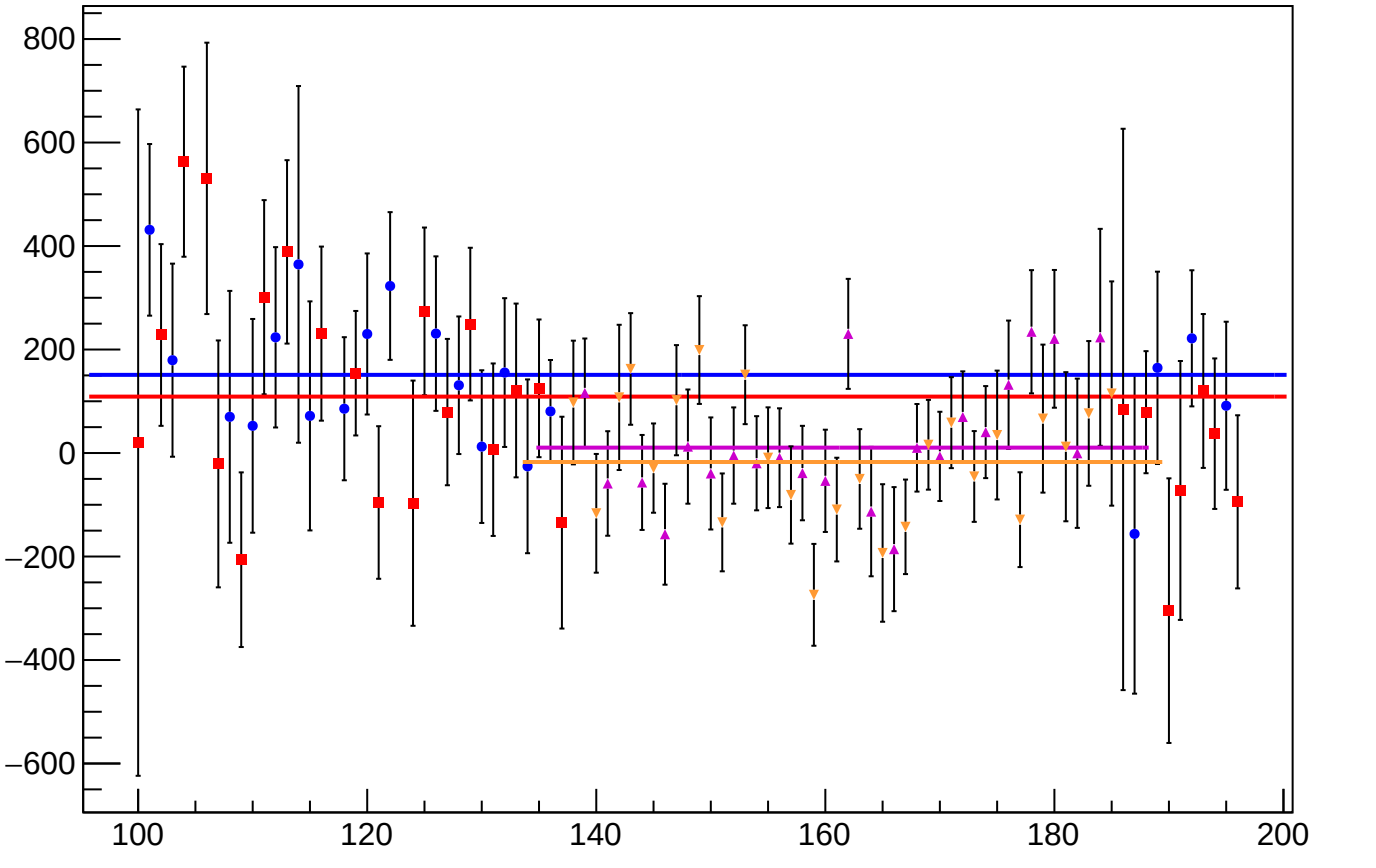
Left: 873.036+/-0.102 $\chi^2$/NDF: 1245424.4/47

Right: 1663.412+/-0.267 $\chi^2$/NDF: 4333465.0/45

In: 968.040+/-0.136 $\chi^2$/NDF:5515562.0/42

Out: 977.923+/-0.132 $\chi^2$/NDF:7726061.6/50

All: 973.127+/-0.095 $\chi^2$/NDF: 13244330.4/93




Right In: 151.049+/-35.855 $\chi^2$/NDF: 10.1/19

Left Out: -17.356+/-20.987 $\chi^2$/NDF:31.2/24

Right Out: 109.014+/-33.692 $\chi^2$/NDF: 28.6/25

Left In: 10.412+/-21.503 $\chi^2$/NDF:22.6/22

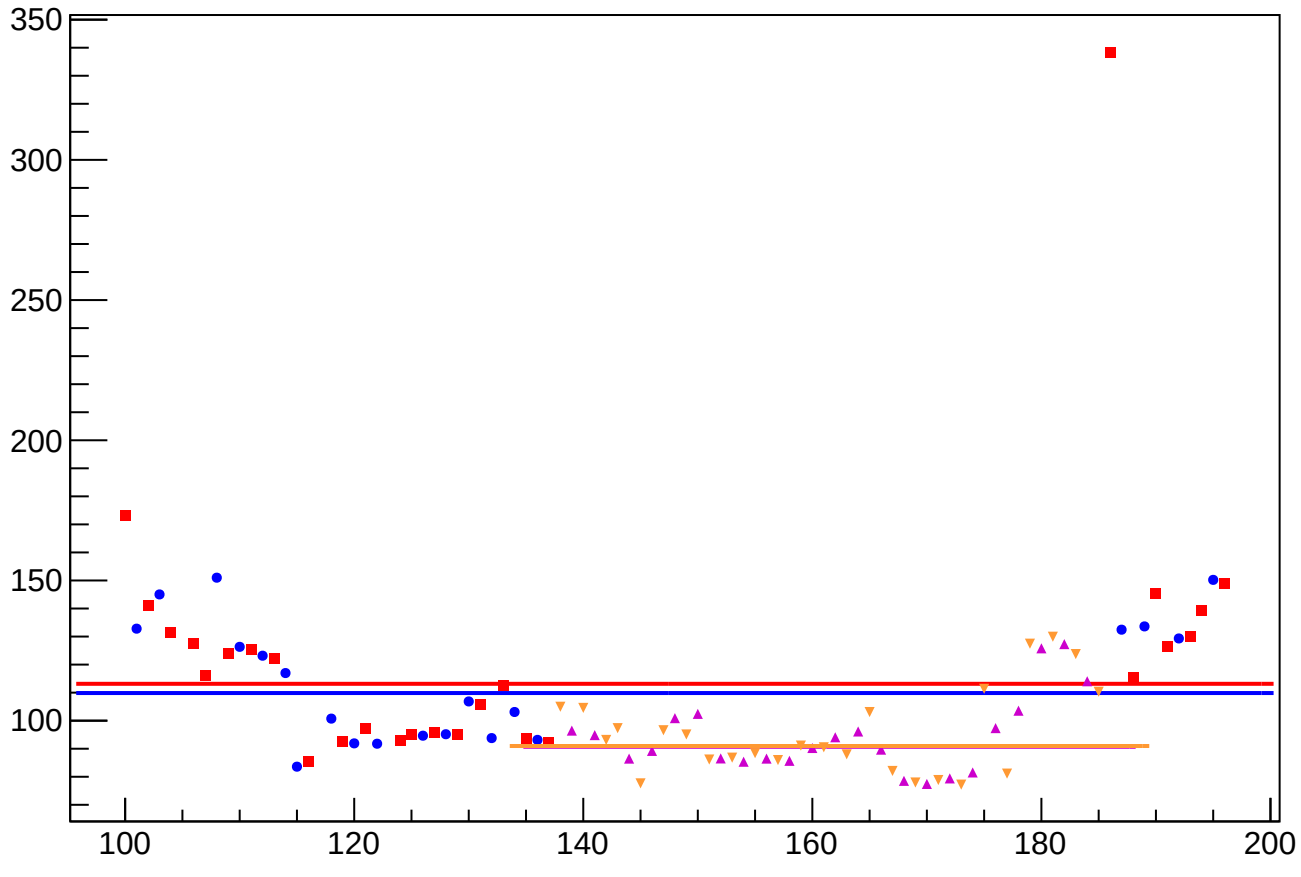
Left: -3.810+/-15.019 $\chi^2$/NDF: 54.7/47

Right: 128.725+/-24.553 $\chi^2$/NDF: 39.4/45

In: 47.614+/-18.441 $\chi^2$/NDF:44.0/42

Out: 17.969+/-17.814 $\chi^2$/NDF:69.9/50

All: 32.279+/-12.812 $\chi^2$/NDF: 115.3/93




Right In: 109.857+/-0.025 $\chi^2$/NDF: 628983.4/19

Left Out: 90.967+/-0.015 $\chi^2$/NDF:784529.9/24

Right Out: 113.149+/-0.024 $\chi^2$/NDF: 982927.0/25

Left In: 90.690+/-0.015 $\chi^2$/NDF:545960.7/22

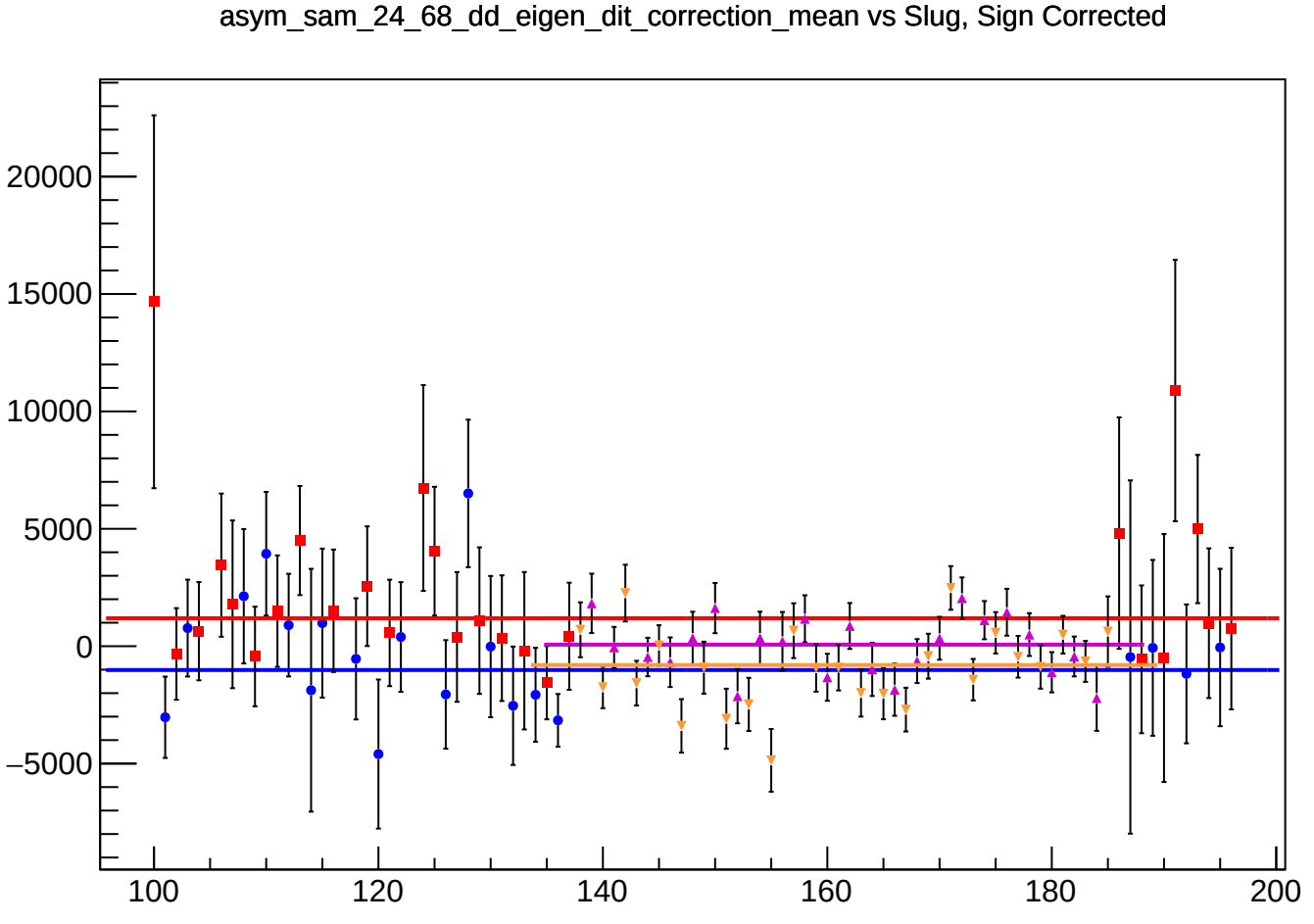
Left: 90.832+/-0.011 $\chi^2$/NDF: 1330660.5/47

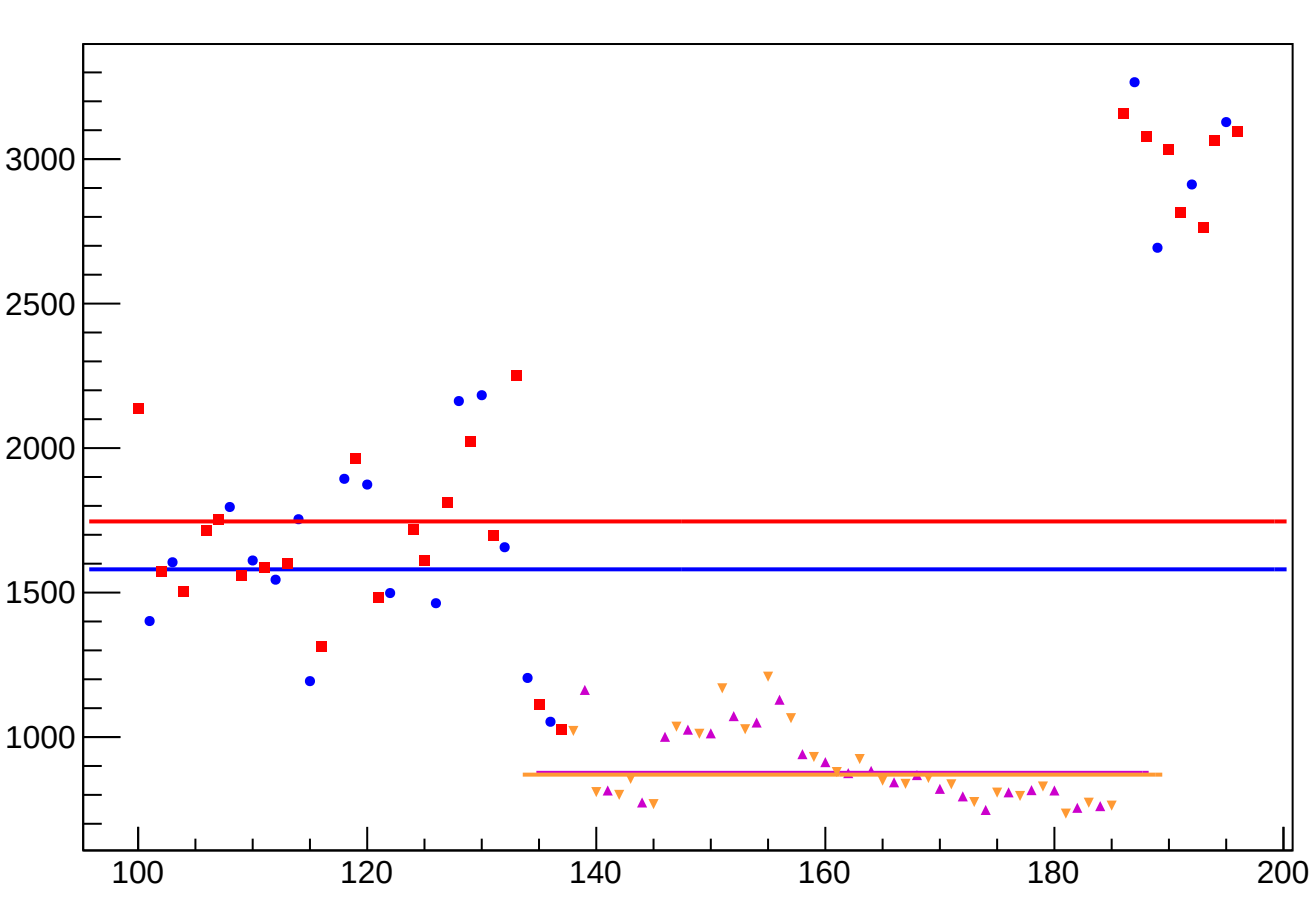
Right: 111.605+/-0.017 $\chi^2$/NDF: 1620864.3/45

In: 95.760+/-0.013 $\chi^2$/NDF:1595294.5/42

Out: 97.168+/-0.013 $\chi^2$/NDF:2392047.0/50

All: 96.488+/-0.009 $\chi^2$/NDF: 3993368.0/93


asym_sam_24_68_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -1014.640+/-533.904 χ²/NDF: 20.2/19
Left Out: -802.531+/-199.851 χ²/NDF:58.3/24
Right Out: 1191.045+/-533.238 χ²/NDF: 18.9/25
Left In: 65.218+/-206.677 χ²/NDF:30.7/22
Left: -383.224+/-143.669 χ²/NDF: 98.1/47
Right: 89.579+/-377.291 χ²/NDF: 47.6/45
In: -75.511+/-192.740 χ²/NDF:54.5/42
Out: -556.992+/-187.139 χ²/NDF:89.4/50
All: -323.349+/-134.264 χ²/NDF: 147.1/93




Right In: 1580.427+/-0.378 $\chi^2$/NDF: 1892844.6/19

Left Out: 870.008+/-0.141 $\chi^2$/NDF:647275.9/24

Right Out: 1746.184+/-0.377 $\chi^2$/NDF: 2344118.5/25

Left In: 876.272+/-0.146 $\chi^2$/NDF:597200.9/22

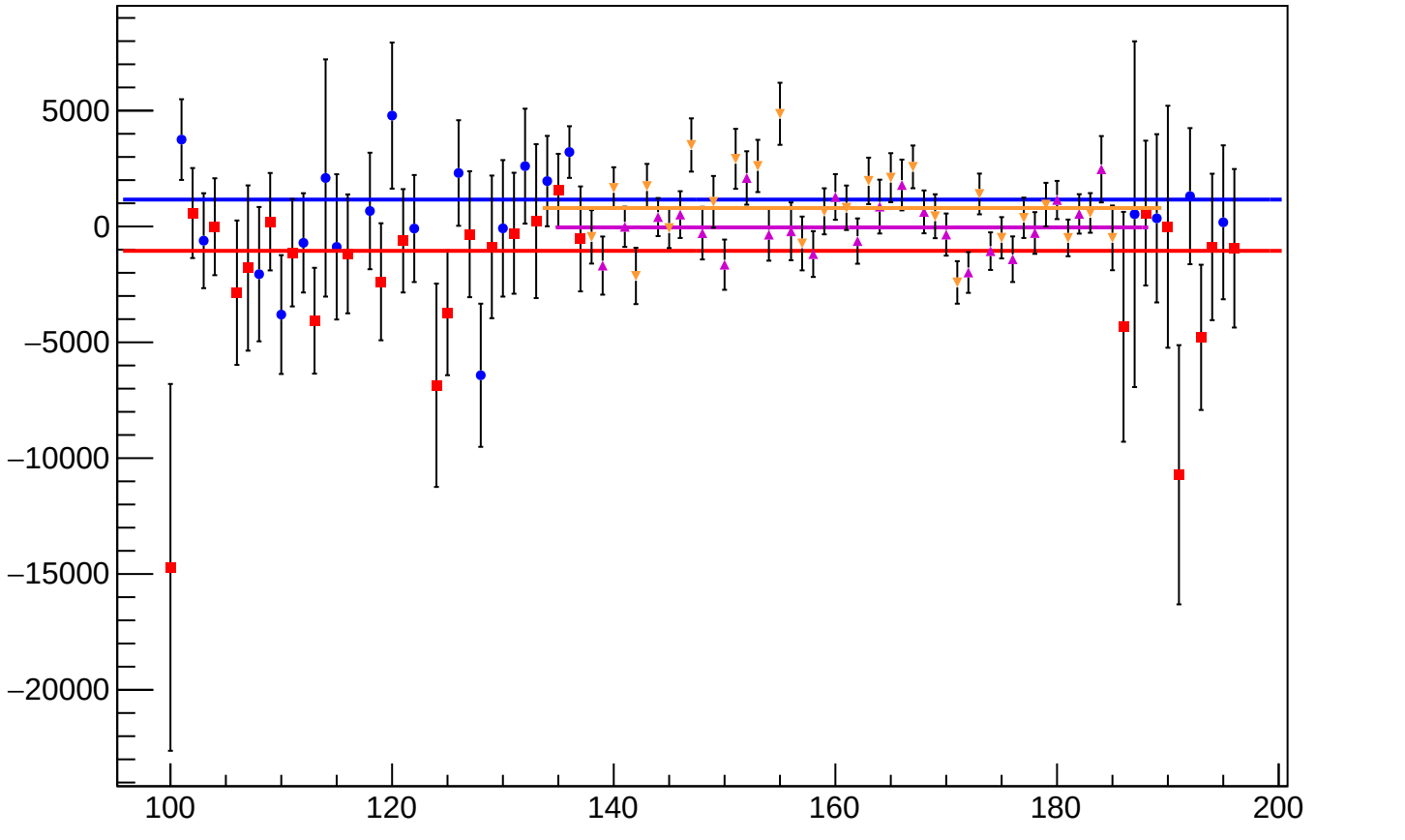
Left: 873.035+/-0.102 $\chi^2$/NDF: 1245426.3/47

Right: 1663.409+/-0.267 $\chi^2$/NDF: 4333470.8/45

In: 968.039+/-0.136 $\chi^2$/NDF:5515555.8/42

Out: 977.922+/-0.132 $\chi^2$/NDF:7726056.7/50

All: 973.126+/-0.095 $\chi^2$/NDF: 13244319.5/93




Right In: 1160.721+/-528.117 $\chi^2$/NDF: 21.3/19

Left Out: 796.287+/-198.802 $\chi^2$/NDF:57.2/24

Right Out: -1051.569+/-529.058 $\chi^2$/NDF: 17.8/25

Left In: -39.746+/-205.349 $\chi^2$/NDF:29.7/22

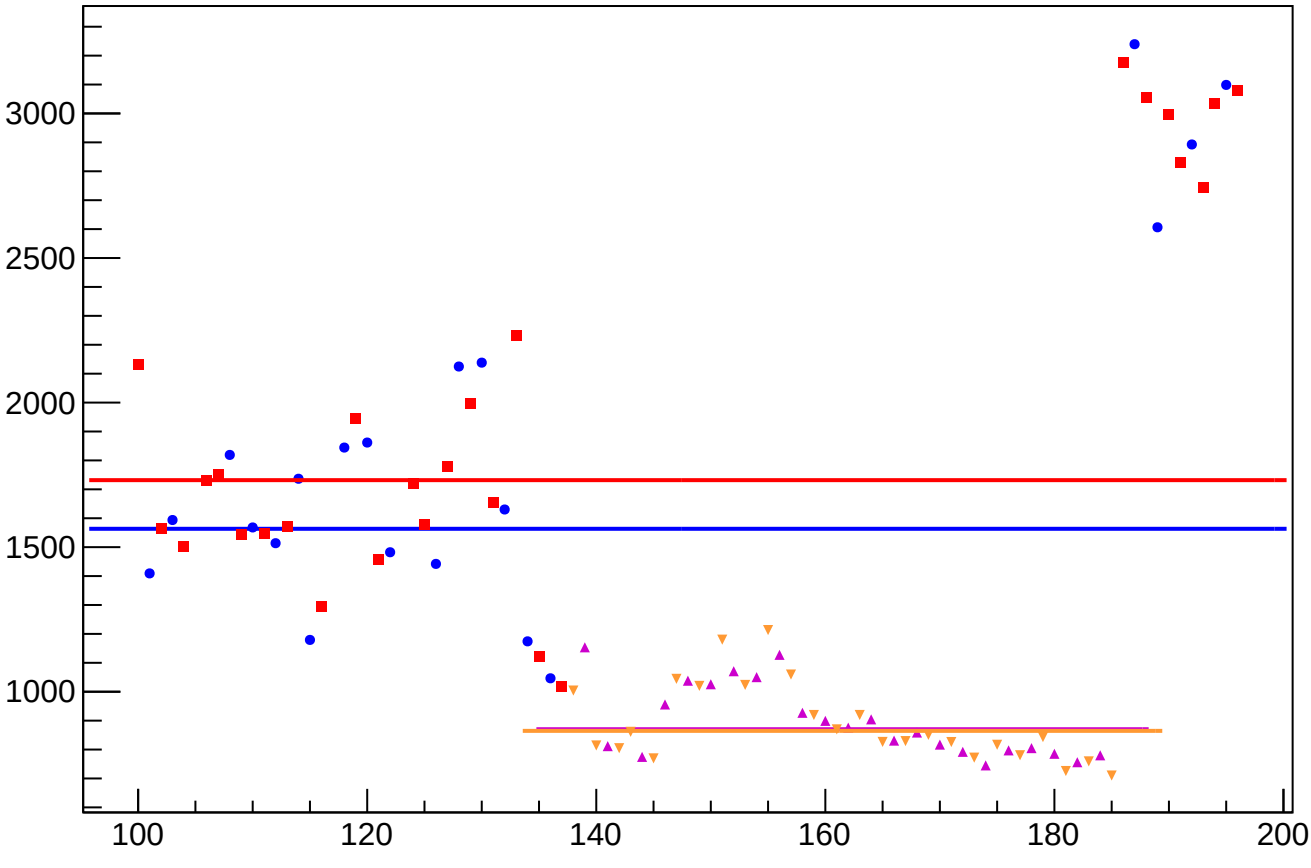
Left: 391.811+/-142.833 $\chi^2$/NDF: 95.5/47

Right: 56.545+/-373.767 $\chi^2$/NDF: 47.8/45

In: 117.917+/-191.390 $\chi^2$/NDF:55.5/42

Out: 567.652+/-186.097 $\chi^2$/NDF:85.6/50

All: 349.089+/-133.423 $\chi^2$/NDF: 144.0/93




Right In: 1563.502+/-0.373 $\chi^2$/NDF: 1871735.1/19

Left Out: 864.637+/-0.141 $\chi^2$/NDF:688948.2/24

Right Out: 1731.742+/-0.374 $\chi^2$/NDF: 2336527.2/25

Left In: 870.346+/-0.145 $\chi^2$/NDF:604520.6/22

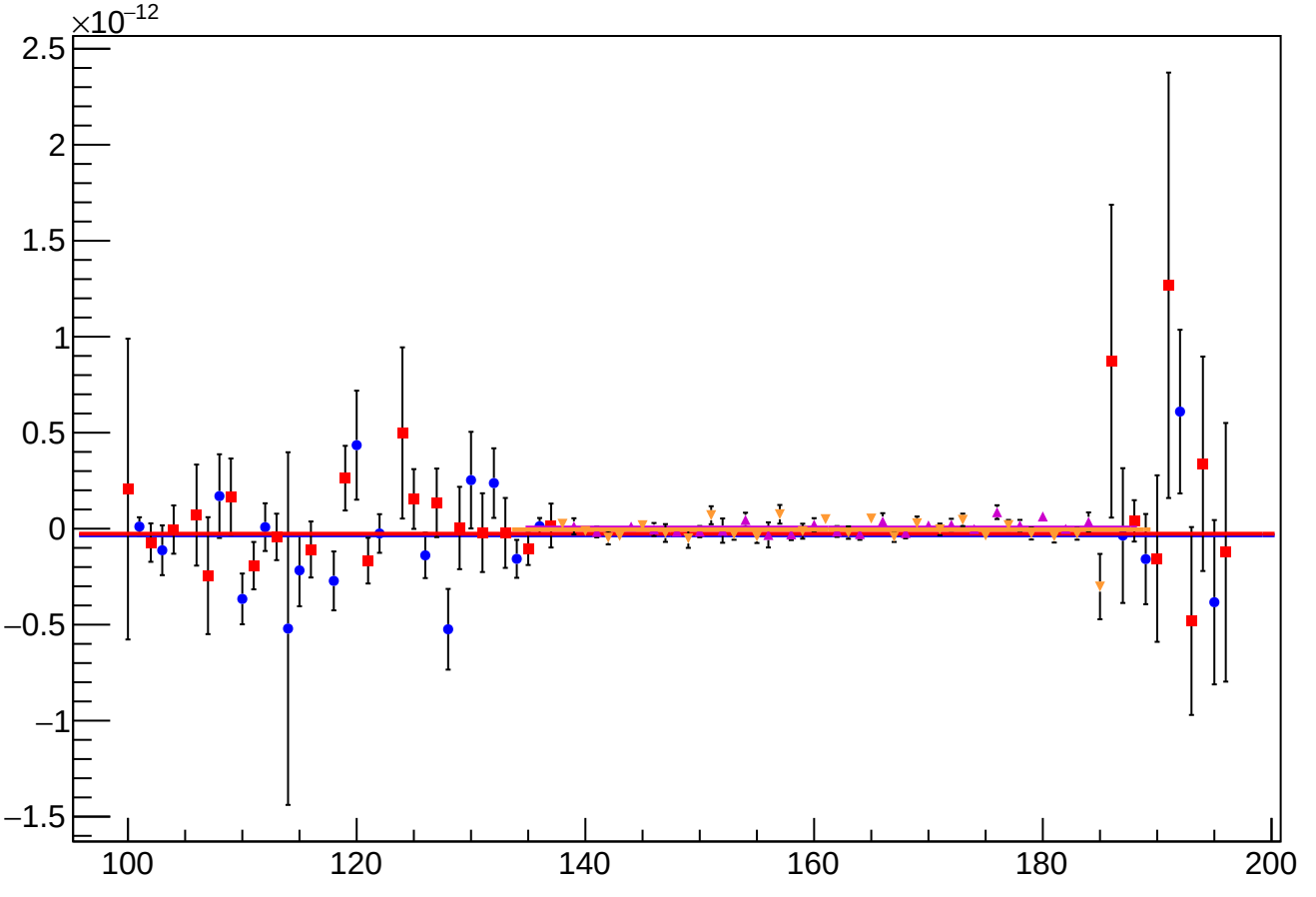
Left: 867.399+/-0.101 $\chi^2$/NDF: 1294266.9/47

Right: 1647.472+/-0.264 $\chi^2$/NDF: 4309566.4/45

In: 961.381+/-0.135 $\chi^2$/NDF:5469098.7/42

Out: 971.923+/-0.132 $\chi^2$/NDF:7733143.5/50

All: 966.800+/-0.094 $\chi^2$/NDF: 13205361.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 30.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:38.7/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 17.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.6/22

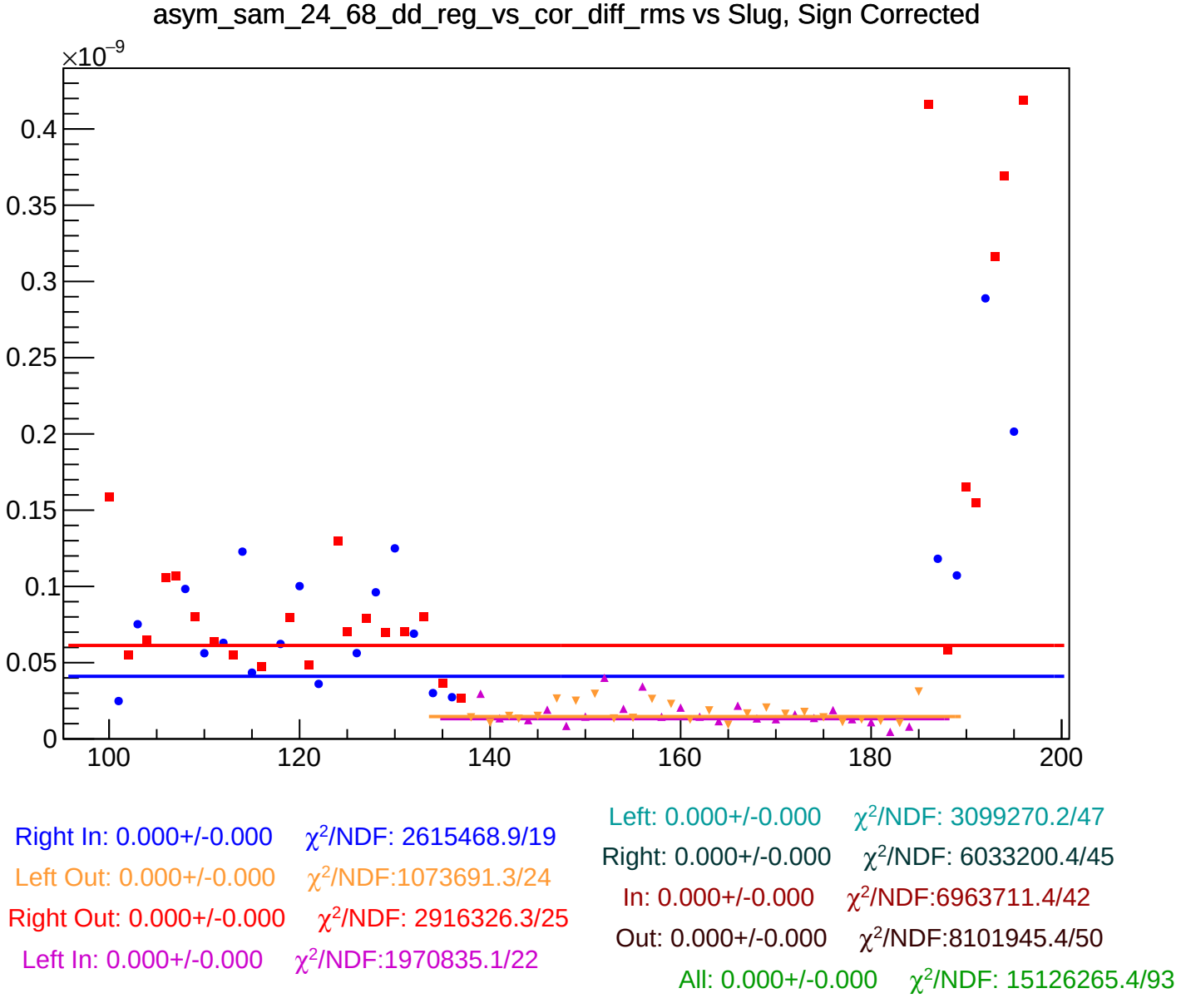
Left: 0.000+/-0.000 $\chi^2$/NDF: 60.6/47

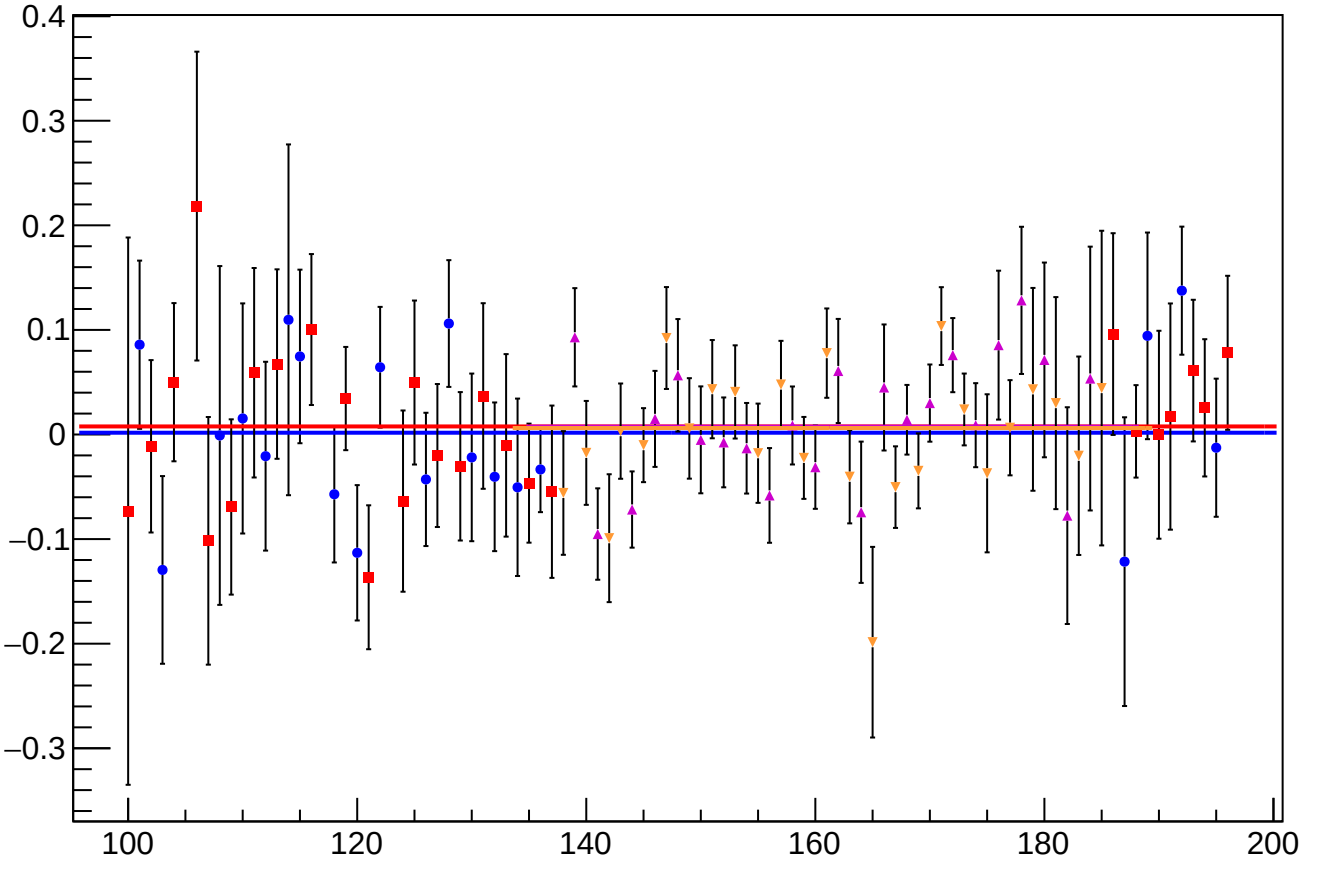
Right: -0.000+/-0.000 $\chi^2$/NDF: 48.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:53.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:56.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 111.3/93


asym_sam_24_68_dd_reg_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2615468.9/19
Left Out: 0.000+/-0.000 χ²/NDF:1073691.3/24
Right Out: 0.000+/-0.000 χ²/NDF: 2916326.3/25
Left In: 0.000+/-0.000 χ²/NDF:1970835.1/22
Left: 0.000+/-0.000 χ²/NDF: 3099270.2/47
Right: 0.000+/-0.000 χ²/NDF: 6033200.4/45
In: 0.000+/-0.000 χ²/NDF:6963711.4/42
Out: 0.000+/-0.000 χ²/NDF:8101945.4/50
All: 0.000+/-0.000 χ²/NDF: 15126265.4/93




Right In: 0.002+/-0.016 $\chi^2$/NDF: 21.3/19

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.8/24

Right Out: 0.008+/-0.015 $\chi^2$/NDF: 16.8/25

Left In: 0.007+/-0.010 $\chi^2$/NDF:30.4/22

Left: 0.007+/-0.007 $\chi^2$/NDF: 61.3/47

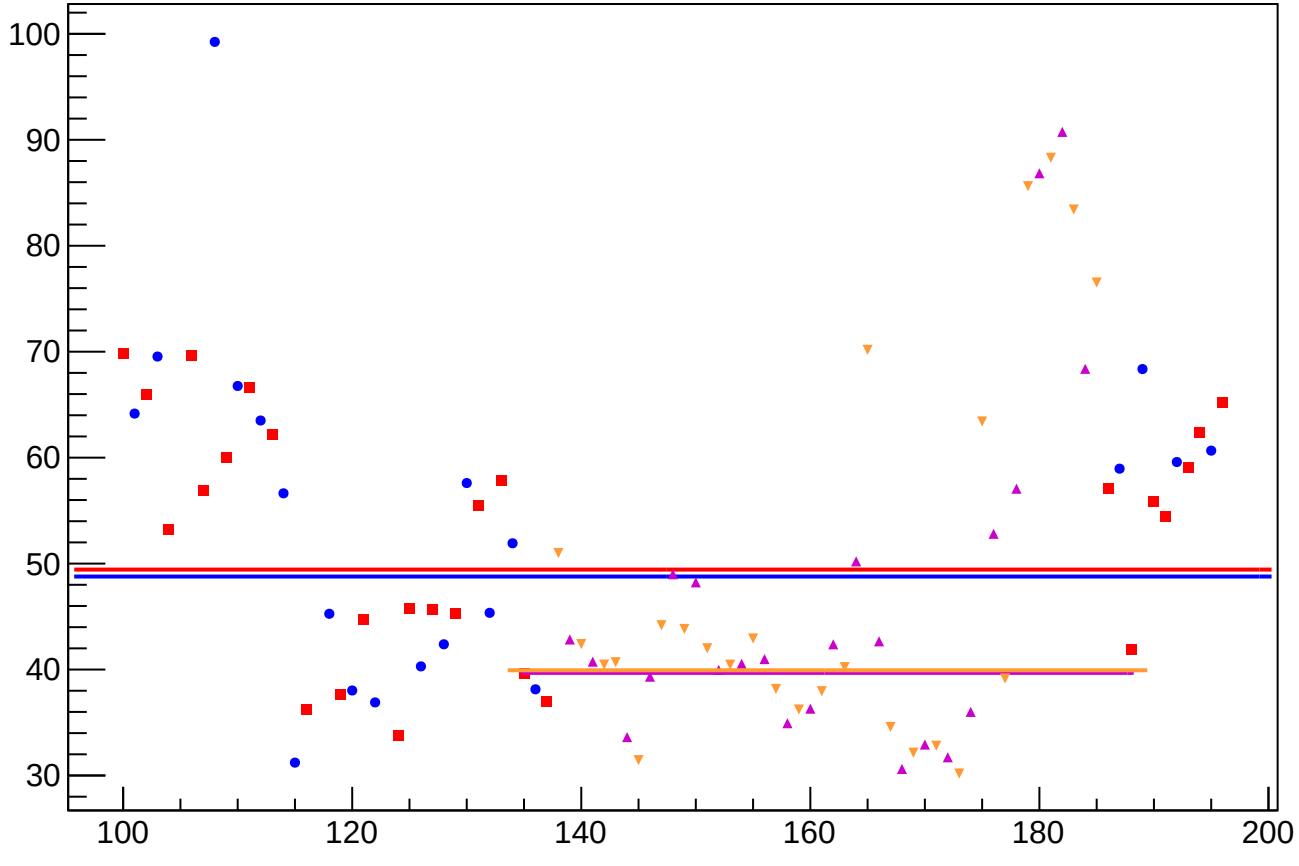
Right: 0.005+/-0.011 $\chi^2$/NDF: 38.1/45

In: 0.006+/-0.008 $\chi^2$/NDF:51.8/42

Out: 0.007+/-0.008 $\chi^2$/NDF:47.6/50

All: 0.006+/-0.006 $\chi^2$/NDF: 99.4/93

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.780+/-0.012 $\chi^2$/NDF: 1162812.0/19

Left Out: 39.930+/-0.007 $\chi^2$/NDF:2475485.4/24

Right Out: 49.435+/-0.011 $\chi^2$/NDF: 971552.6/25

Left In: 39.686+/-0.007 $\chi^2$/NDF:1915871.4/22

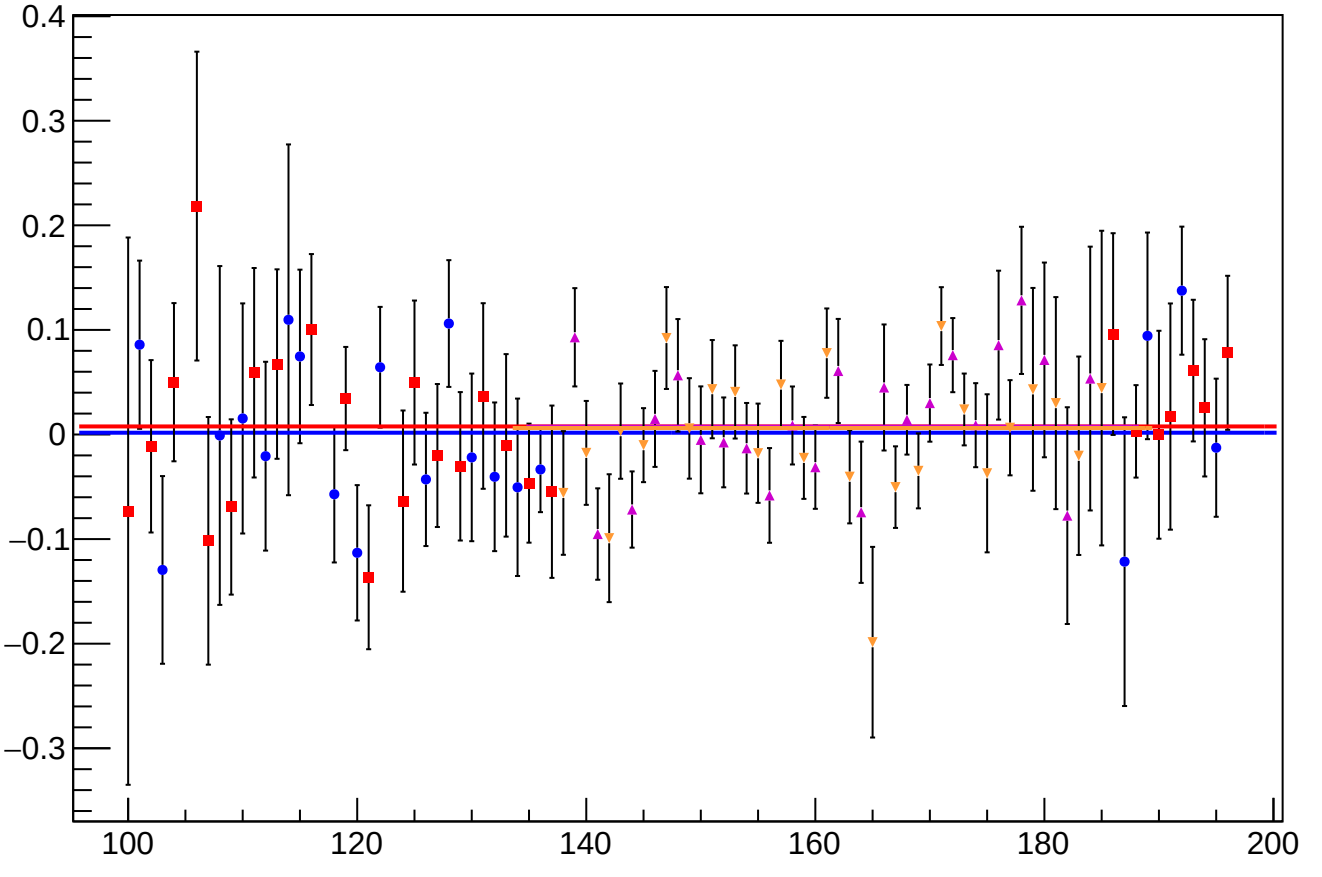
Left: 39.811+/-0.005 $\chi^2$/NDF: 4391996.2/47

Right: 49.137+/-0.008 $\chi^2$/NDF: 2136119.1/45

In: 42.080+/-0.006 $\chi^2$/NDF:3534408.1/42

Out: 42.703+/-0.006 $\chi^2$/NDF:4022374.0/50

All: 42.404+/-0.004 $\chi^2$/NDF: 7562523.2/93




Right In: 0.002+/-0.016 $\chi^2$/NDF: 21.3/19

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.8/24

Right Out: 0.008+/-0.015 $\chi^2$/NDF: 16.8/25

Left In: 0.007+/-0.010 $\chi^2$/NDF:30.4/22

Left: 0.007+/-0.007 $\chi^2$/NDF: 61.3/47

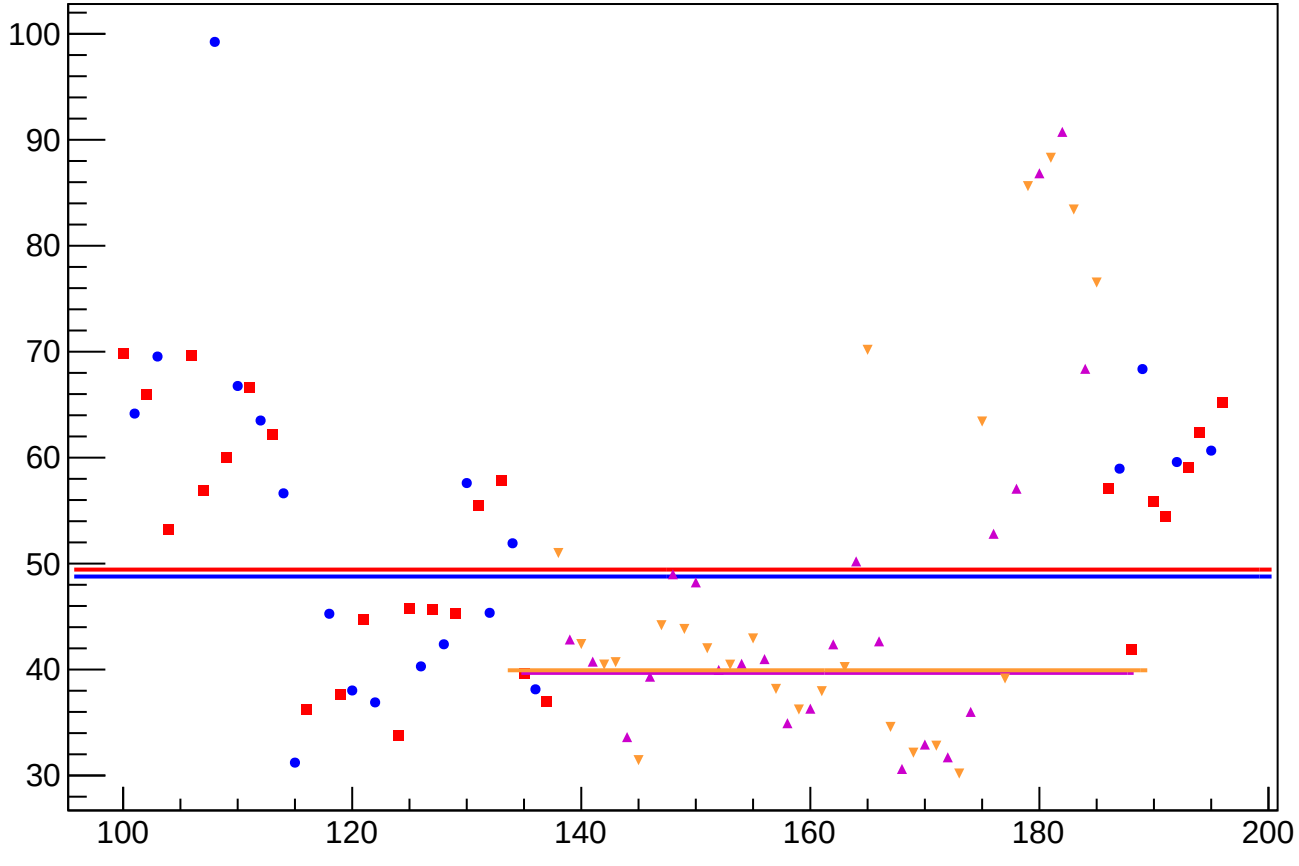
Right: 0.005+/-0.011 $\chi^2$/NDF: 38.1/45

In: 0.006+/-0.008 $\chi^2$/NDF:51.8/42

Out: 0.007+/-0.008 $\chi^2$/NDF:47.6/50

All: 0.006+/-0.006 $\chi^2$/NDF: 99.4/93

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.780+/-0.012 $\chi^2$/NDF: 1162812.0/19

Left Out: 39.930+/-0.007 $\chi^2$/NDF:2475485.4/24

Right Out: 49.435+/-0.011 $\chi^2$/NDF: 971552.6/25

Left In: 39.686+/-0.007 $\chi^2$/NDF:1915871.4/22

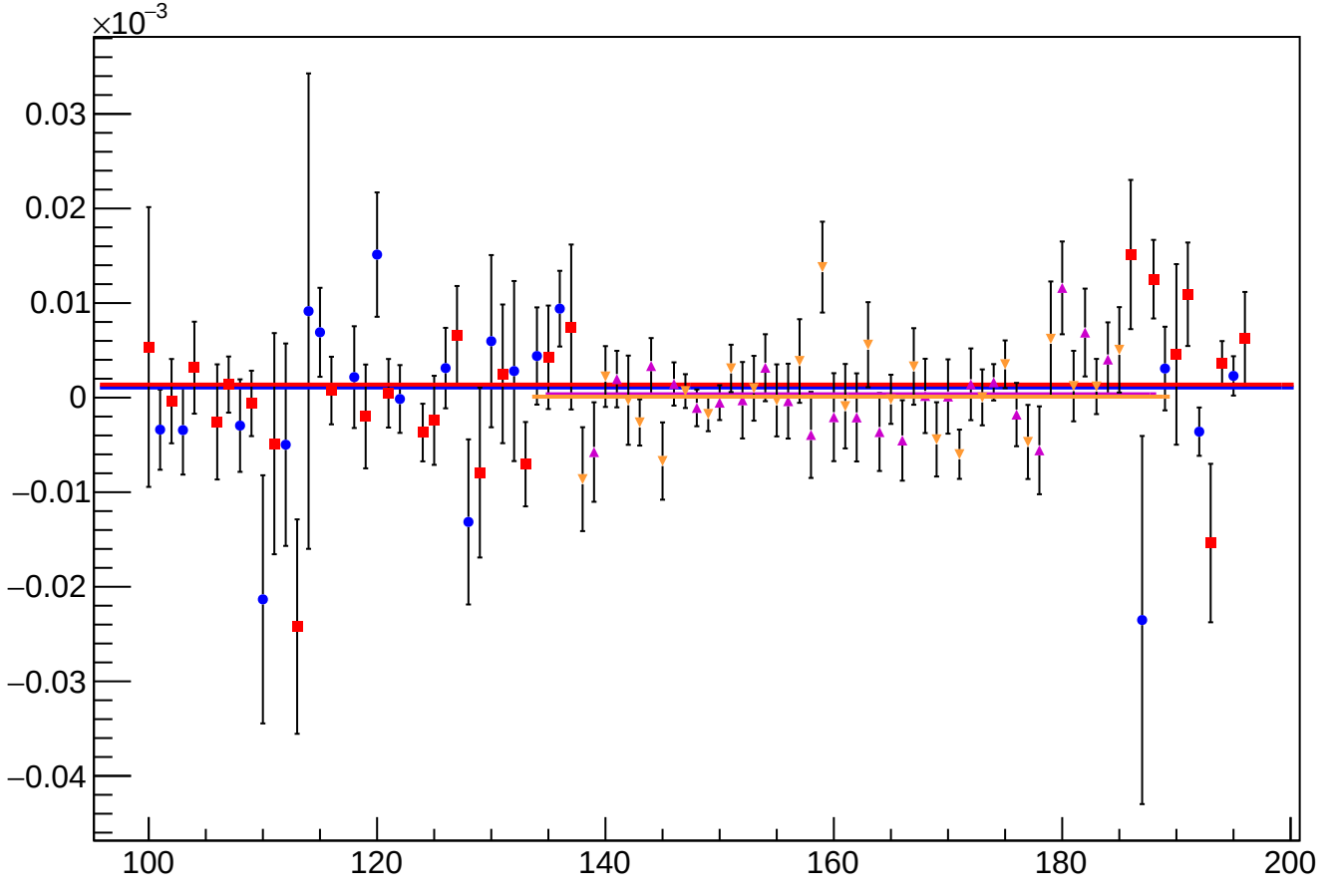
Left: 39.811+/-0.005 $\chi^2$/NDF: 4391996.2/47

Right: 49.137+/-0.008 $\chi^2$/NDF: 2136119.1/45

In: 42.080+/-0.006 $\chi^2$/NDF:3534408.1/42

Out: 42.703+/-0.006 $\chi^2$/NDF:4022374.0/50

All: 42.404+/-0.004 $\chi^2$/NDF: 7562523.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 25.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:33.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 36.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 52.0/47

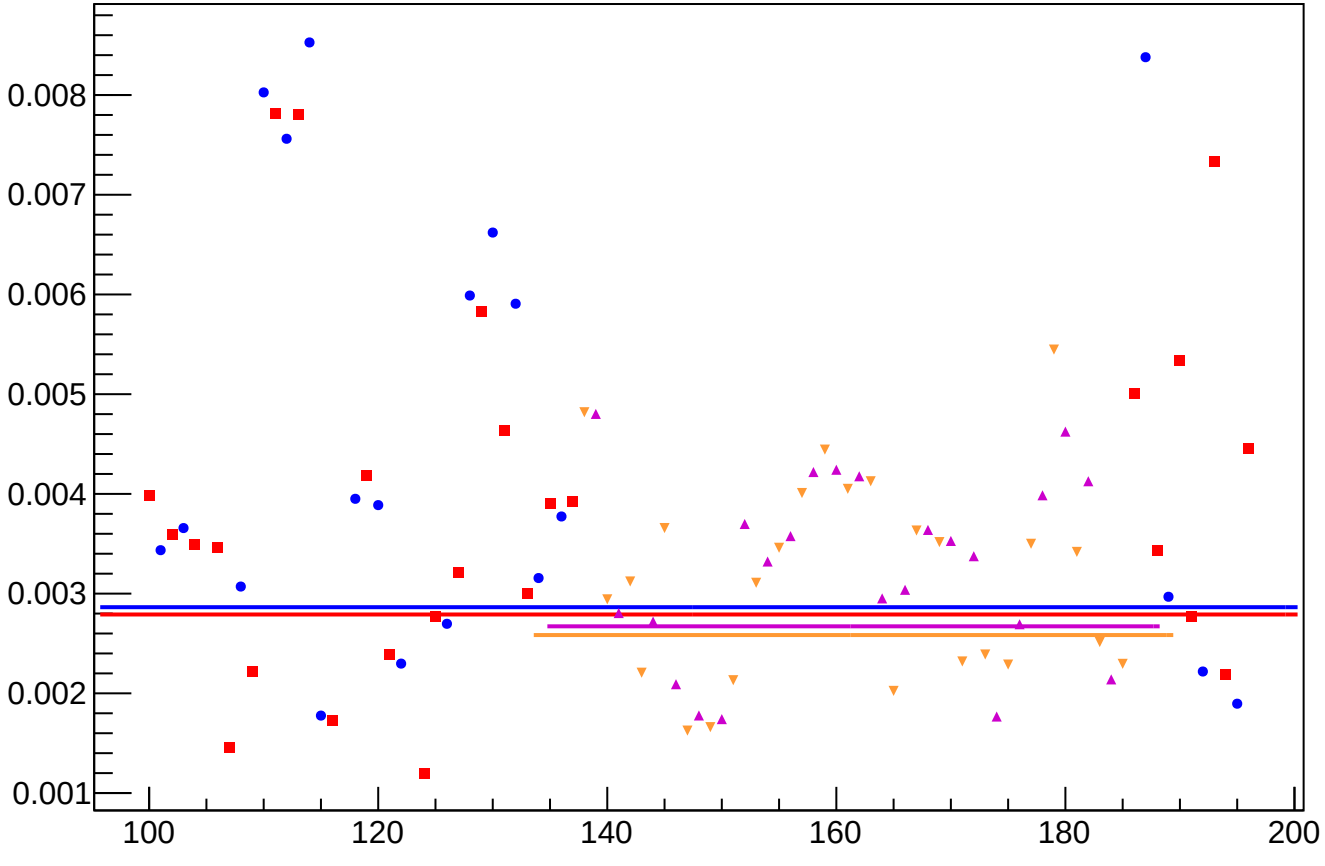
Right: 0.000+/-0.000 $\chi^2$/NDF: 62.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:70.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 115.5/93

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.003+/-0.000 $\chi^2$/NDF: 2816726.7/19

Left Out: 0.003+/-0.000 $\chi^2$/NDF:3892707.7/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 4026794.4/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:3825662.0/22

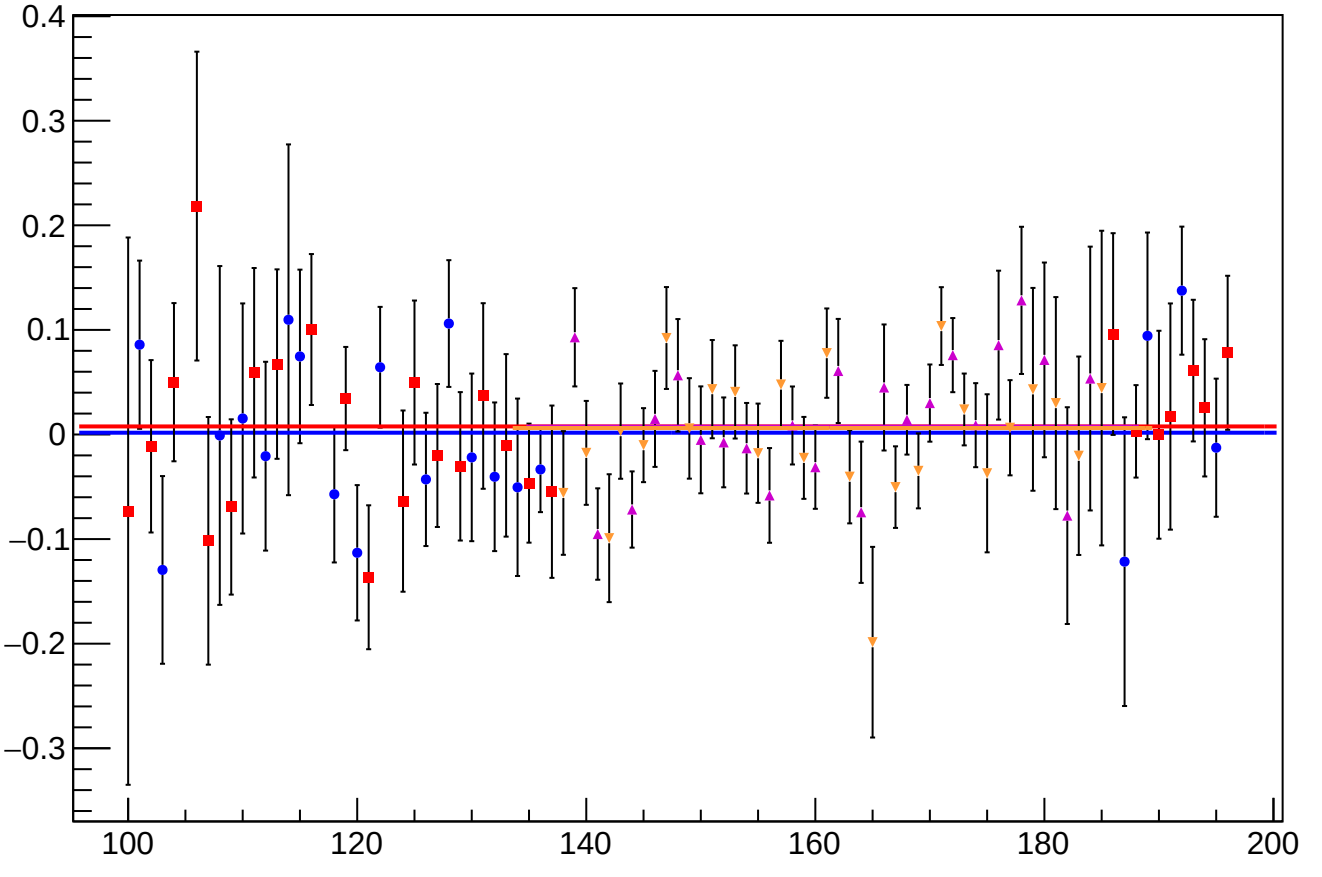
Left: 0.003+/-0.000 $\chi^2$/NDF: 7736624.4/47

Right: 0.003+/-0.000 $\chi^2$/NDF: 6849270.4/45

In: 0.003+/-0.000 $\chi^2$/NDF:6692157.2/42

Out: 0.003+/-0.000 $\chi^2$/NDF:7989000.2/50

All: 0.003+/-0.000 $\chi^2$/NDF: 14703034.7/93




Right In: 0.002+/-0.016 $\chi^2$/NDF: 21.3/19

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.8/24

Right Out: 0.008+/-0.015 $\chi^2$/NDF: 16.8/25

Left In: 0.007+/-0.010 $\chi^2$/NDF:30.4/22

Left: 0.007+/-0.007 $\chi^2$/NDF: 61.3/47

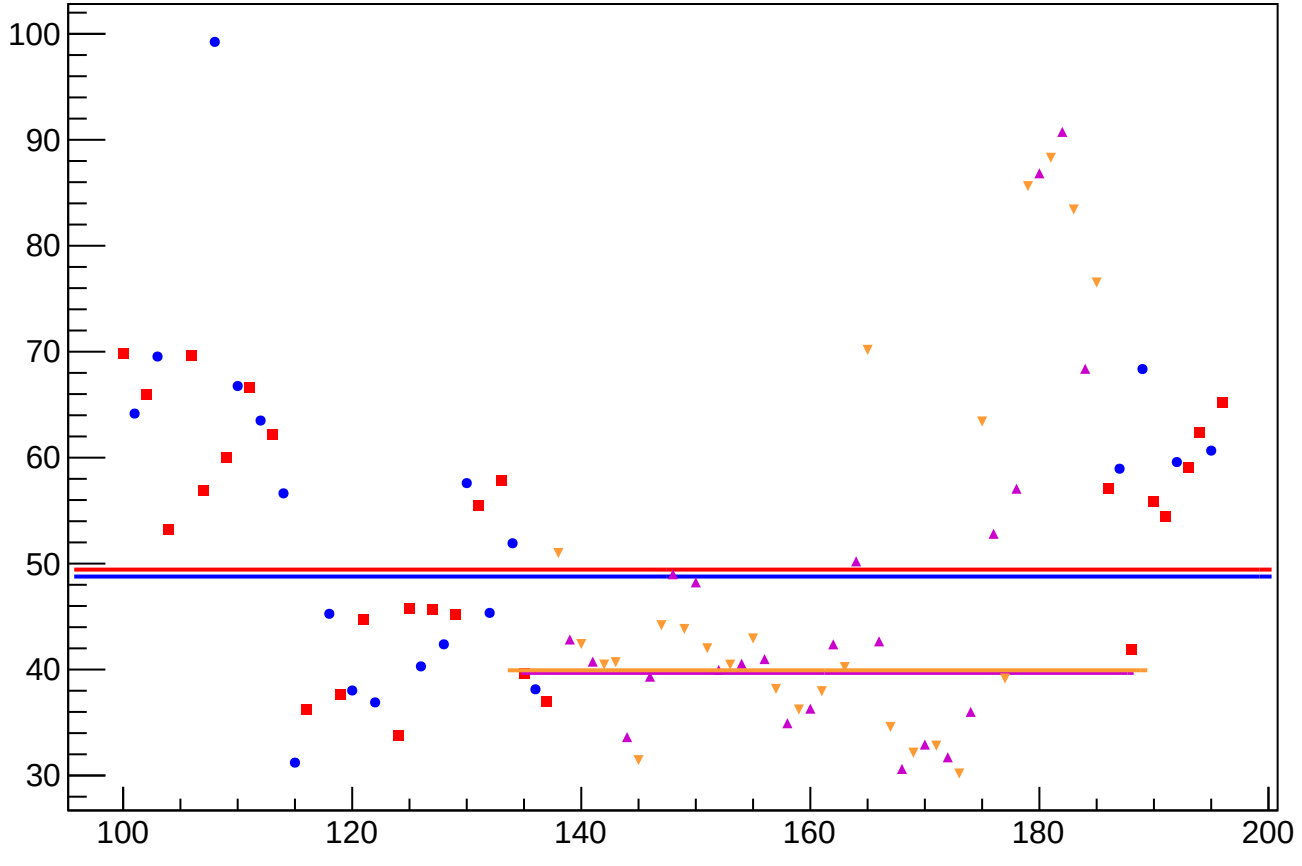
Right: 0.005+/-0.011 $\chi^2$/NDF: 38.1/45

In: 0.006+/-0.008 $\chi^2$/NDF:51.8/42

Out: 0.007+/-0.008 $\chi^2$/NDF:47.6/50

All: 0.006+/-0.006 $\chi^2$/NDF: 99.4/93

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.778+/-0.012 $\chi^2$/NDF: 1162828.3/19

Left Out: 39.930+/-0.007 $\chi^2$/NDF:2475527.1/24

Right Out: 49.434+/-0.011 $\chi^2$/NDF: 971542.6/25

Left In: 39.685+/-0.007 $\chi^2$/NDF:1915901.2/22

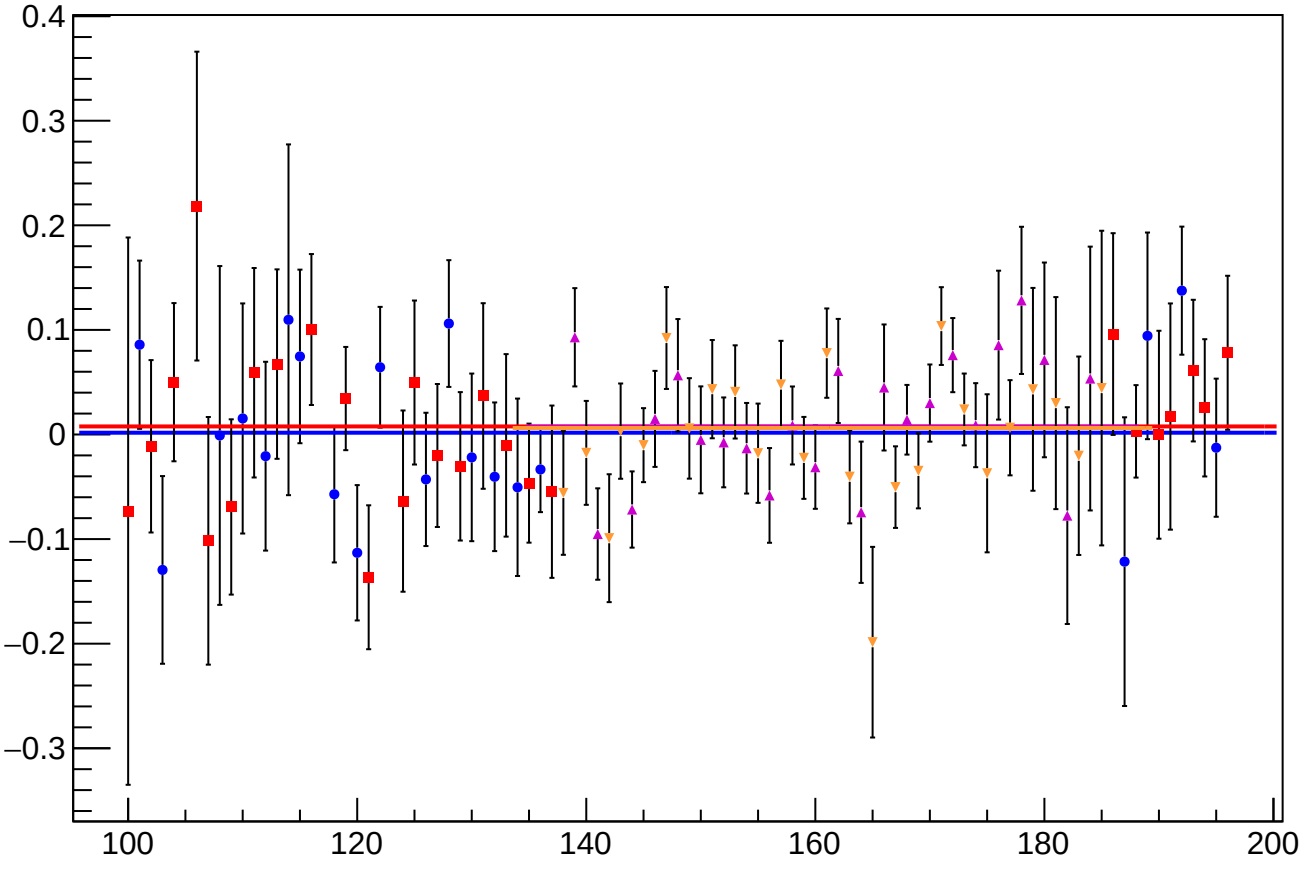
Left: 39.810+/-0.005 $\chi^2$/NDF: 4392069.1/47

Right: 49.136+/-0.008 $\chi^2$/NDF: 2136129.1/45

In: 42.079+/-0.006 $\chi^2$/NDF:3534344.3/42

Out: 42.703+/-0.006 $\chi^2$/NDF:4022308.7/50

All: 42.404+/-0.004 $\chi^2$/NDF: 7562400.5/93




Right In: 0.002+/-0.016 $\chi^2$/NDF: 21.3/19

Left Out: 0.006+/-0.010 $\chi^2$/NDF:30.8/24

Right Out: 0.008+/-0.015 $\chi^2$/NDF: 16.8/25

Left In: 0.007+/-0.010 $\chi^2$/NDF:30.4/22

Left: 0.007+/-0.007 $\chi^2$/NDF: 61.3/47

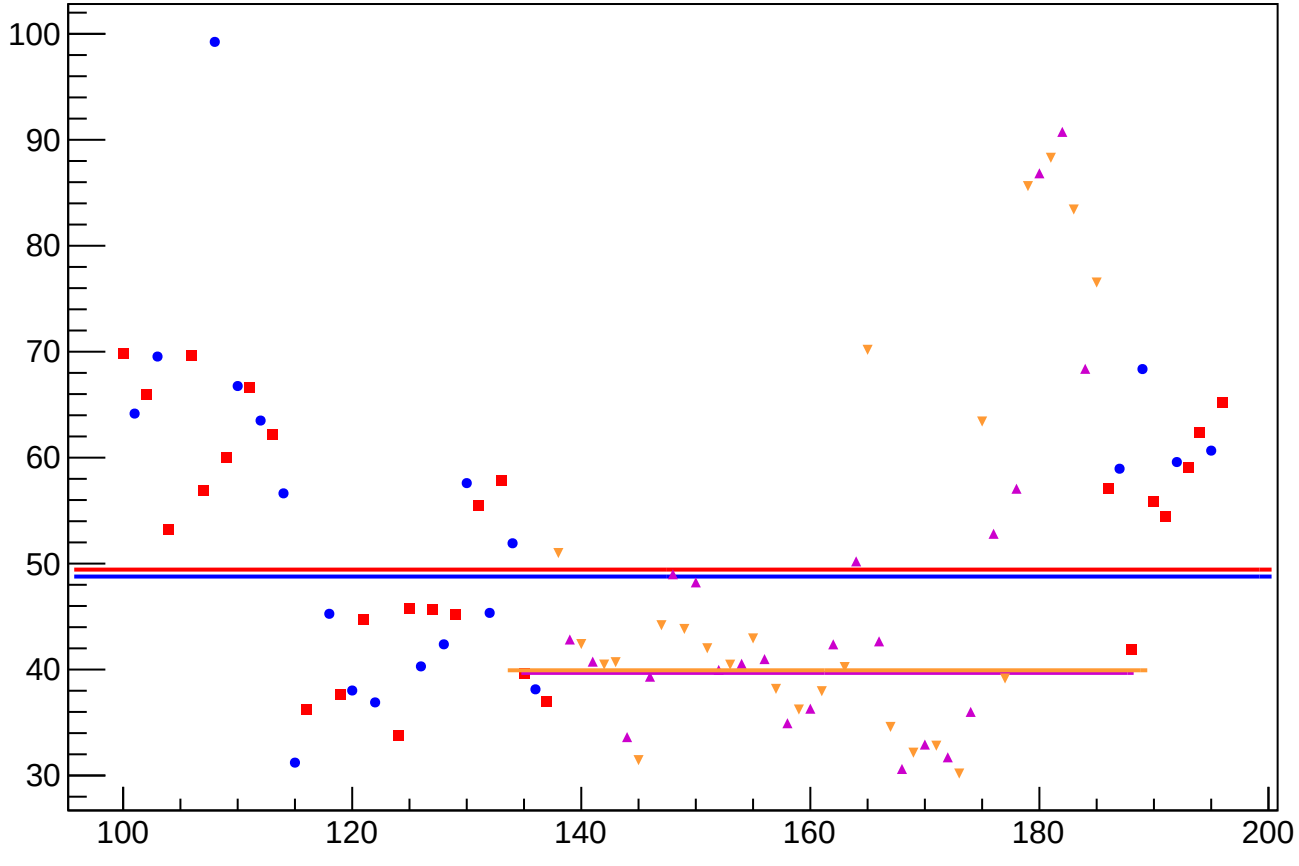
Right: 0.005+/-0.011 $\chi^2$/NDF: 38.1/45

In: 0.006+/-0.008 $\chi^2$/NDF:51.8/42

Out: 0.007+/-0.008 $\chi^2$/NDF:47.6/50

All: 0.006+/-0.006 $\chi^2$/NDF: 99.4/93

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.778+/-0.012 $\chi^2$/NDF: 1162828.3/19

Left Out: 39.930+/-0.007 $\chi^2$/NDF:2475527.1/24

Right Out: 49.434+/-0.011 $\chi^2$/NDF: 971542.6/25

Left In: 39.685+/-0.007 $\chi^2$/NDF:1915901.2/22

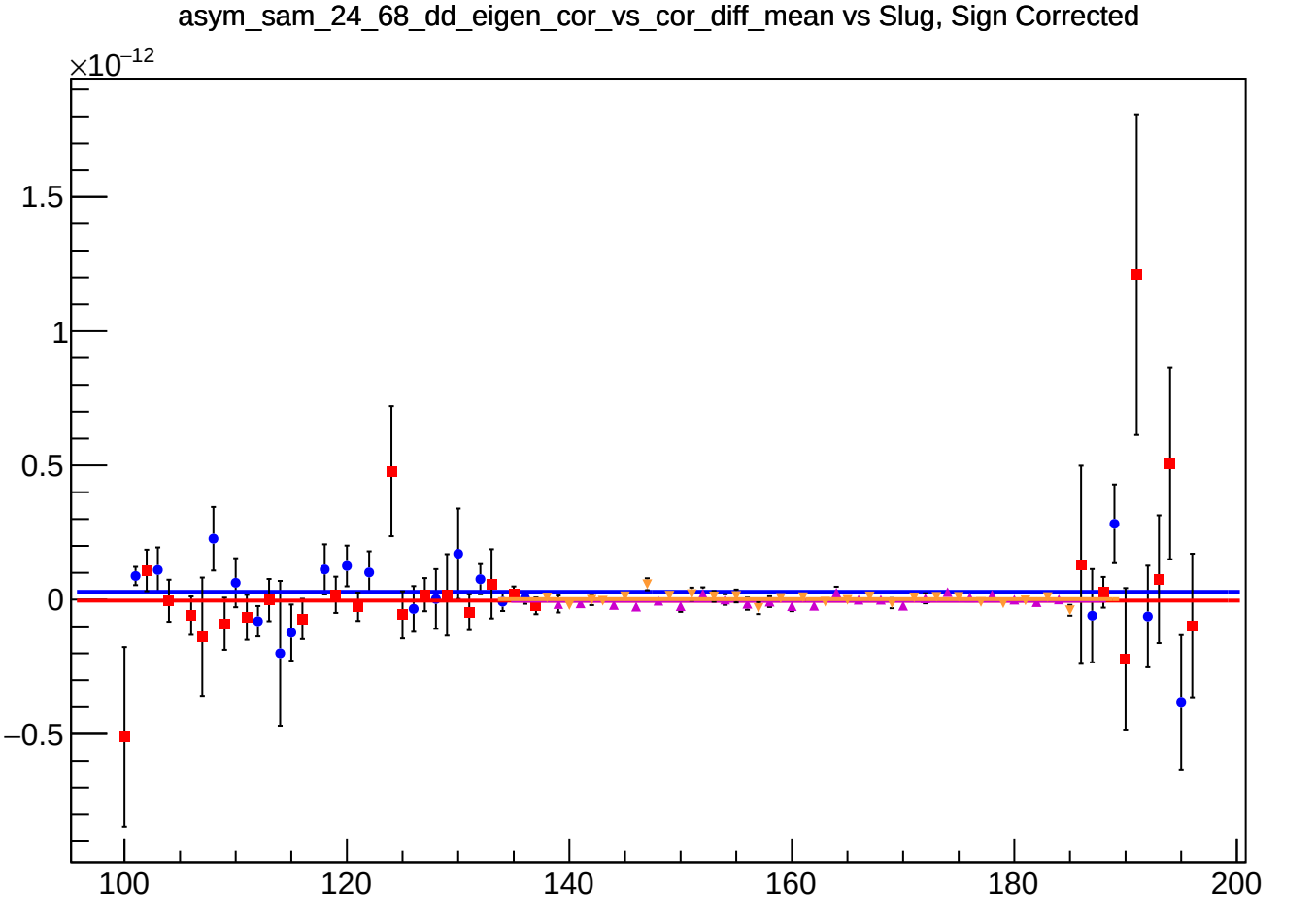
Left: 39.810+/-0.005 $\chi^2$/NDF: 4392069.1/47

Right: 49.136+/-0.008 $\chi^2$/NDF: 2136129.1/45

In: 42.079+/-0.006 $\chi^2$/NDF:3534344.3/42

Out: 42.703+/-0.006 $\chi^2$/NDF:4022308.7/50

All: 42.404+/-0.004 $\chi^2$/NDF: 7562400.5/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 27.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:28.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 21.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:27.5/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 57.5/47

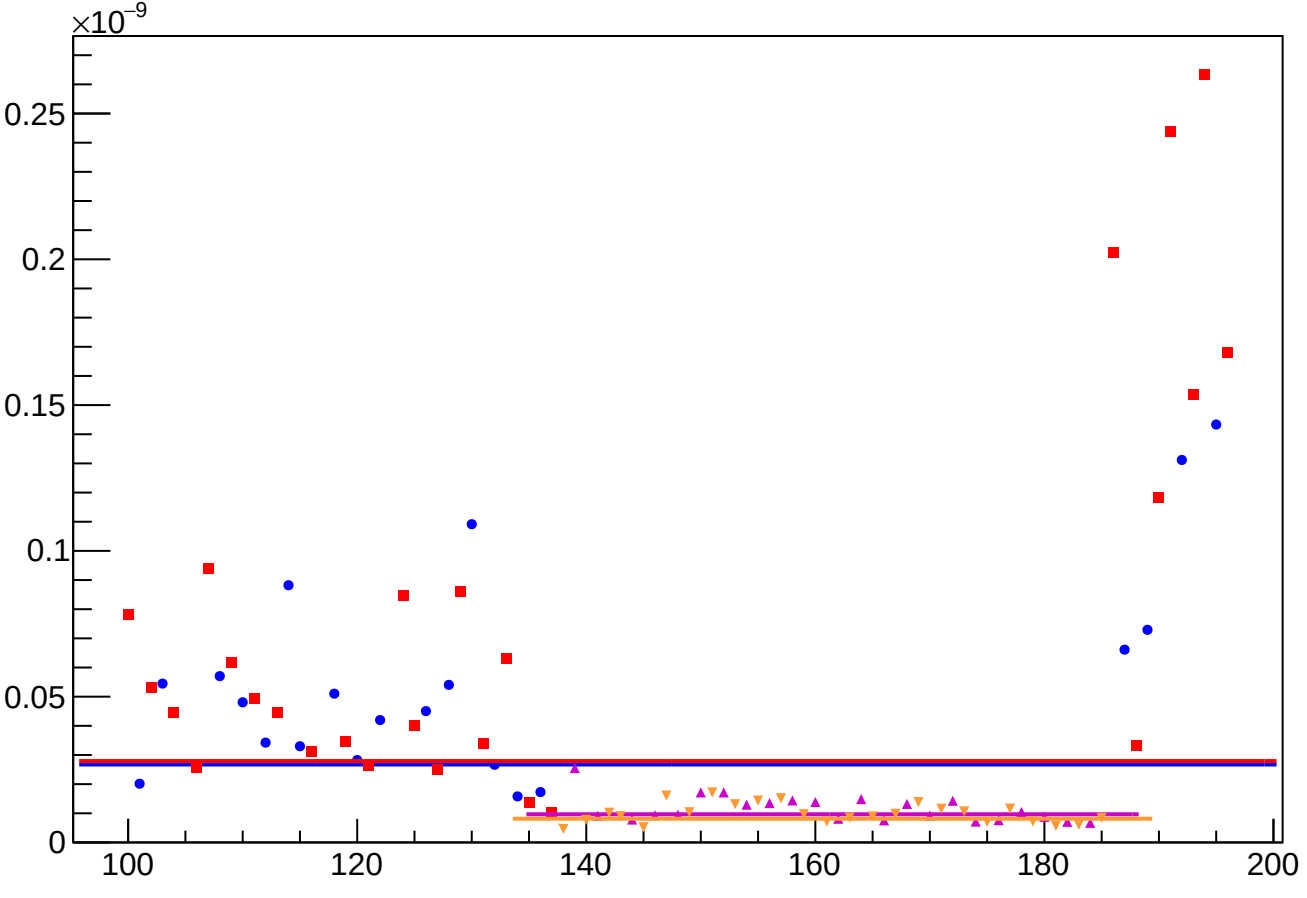
Right: 0.000+/-0.000 $\chi^2$/NDF: 51.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:60.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:49.9/50

All: -0.000+/-0.000 $\chi^2$/NDF: 111.3/93

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3482428.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2354980.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5771353.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2106161.0/22

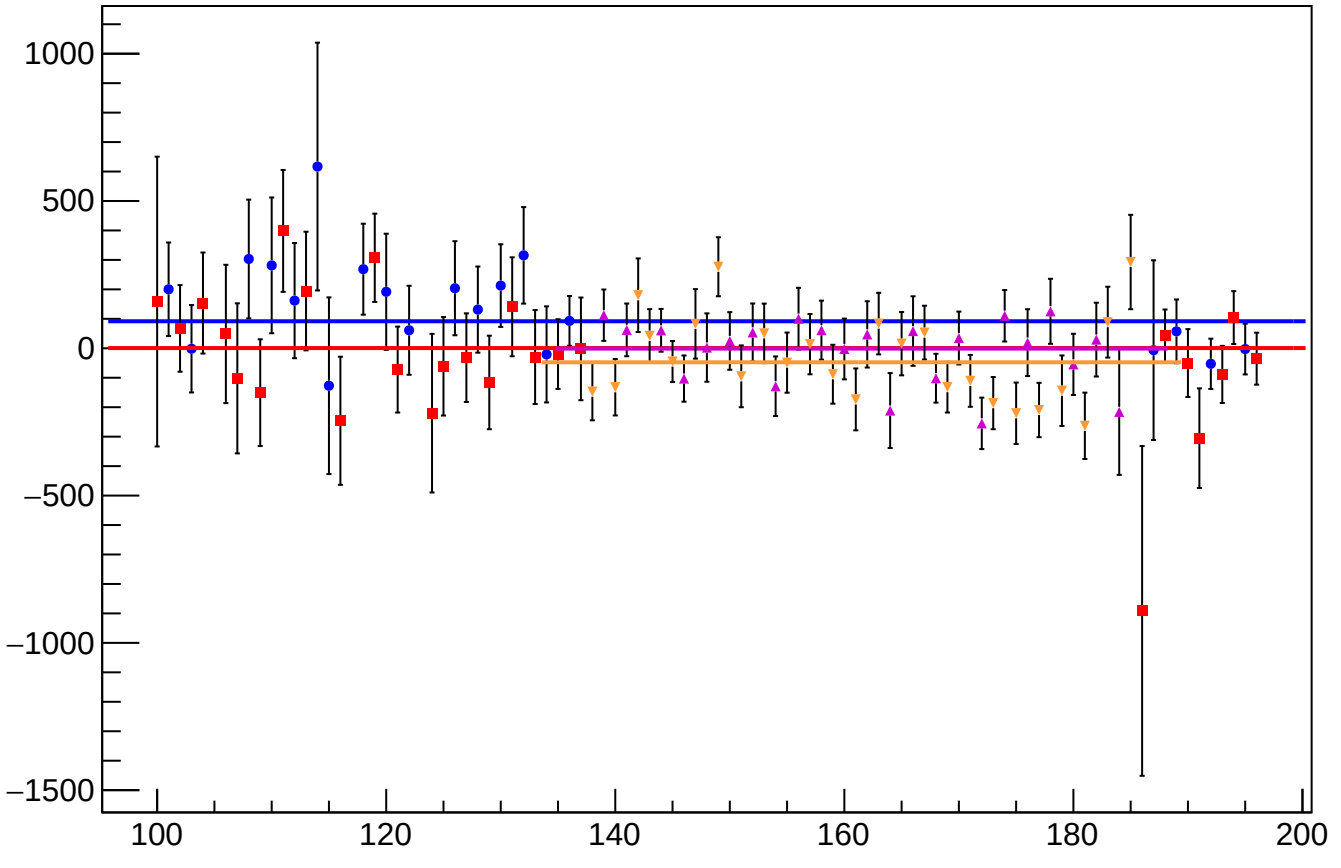
Left: 0.000+/-0.000 $\chi^2$/NDF: 4748302.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9261317.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:8690500.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12080627.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21147694.4/93




Right In: 91.743+/-31.572 $\chi^2$/NDF: 14.4/19

Left Out: -47.524+/-19.983 $\chi^2$/NDF:44.0/24

Right Out: 0.792+/-28.637 $\chi^2$/NDF: 23.1/25

Left In: -0.986+/-20.604 $\chi^2$/NDF:25.5/22

Left: -24.966+/-14.345 $\chi^2$/NDF: 72.1/47

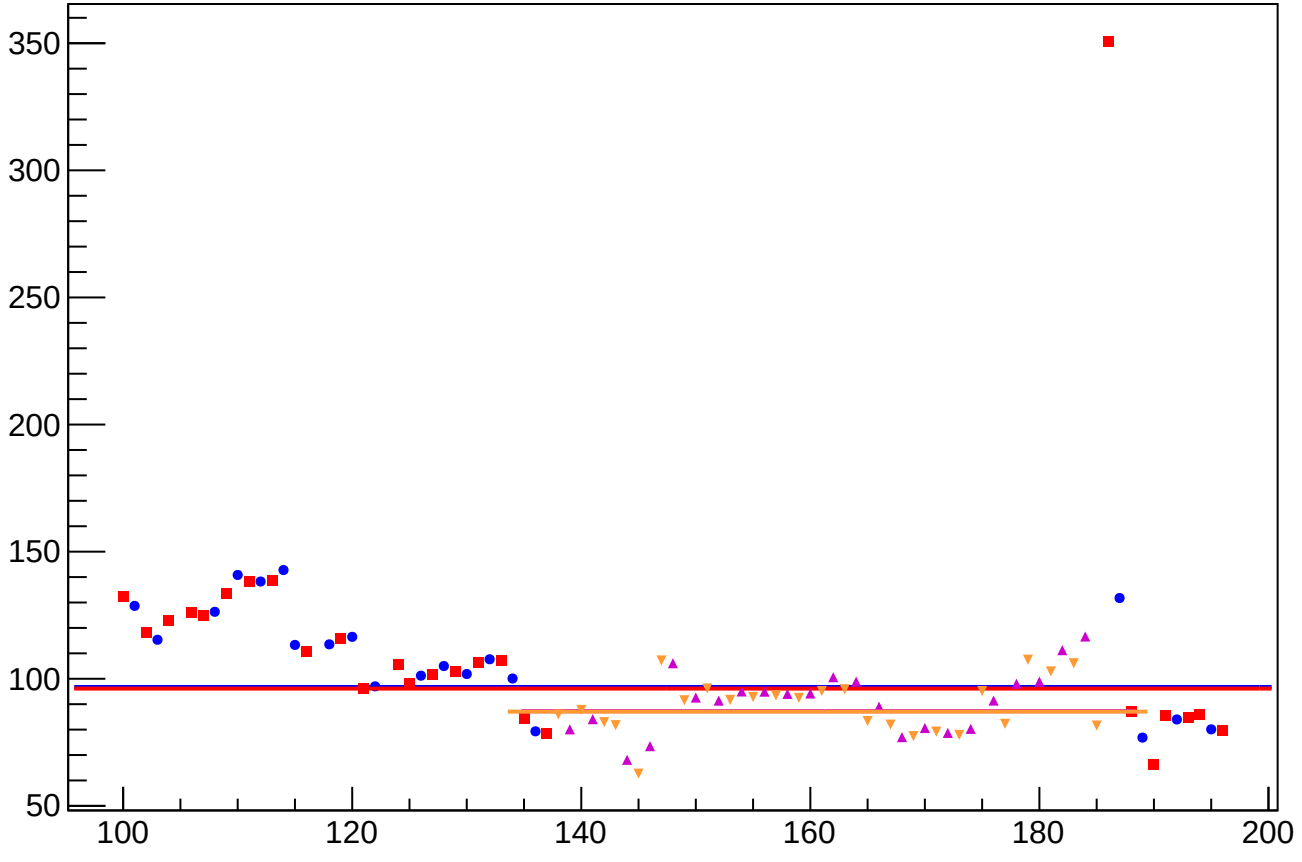
Right: 41.844+/-21.211 $\chi^2$/NDF: 42.0/45

In: 26.710+/-17.255 $\chi^2$/NDF:45.9/42

Out: -31.701+/-16.388 $\chi^2$/NDF:69.0/50

All: -4.000+/-11.882 $\chi^2$/NDF: 120.9/93

# reg_asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 96.763+/-0.022 $\chi^2$/NDF: 711242.3/19

Left Out: 87.072+/-0.014 $\chi^2$/NDF:620626.5/24

Right Out: 96.139+/-0.020 $\chi^2$/NDF: 1232033.9/25

Left In: 87.257+/-0.015 $\chi^2$/NDF:595793.1/22

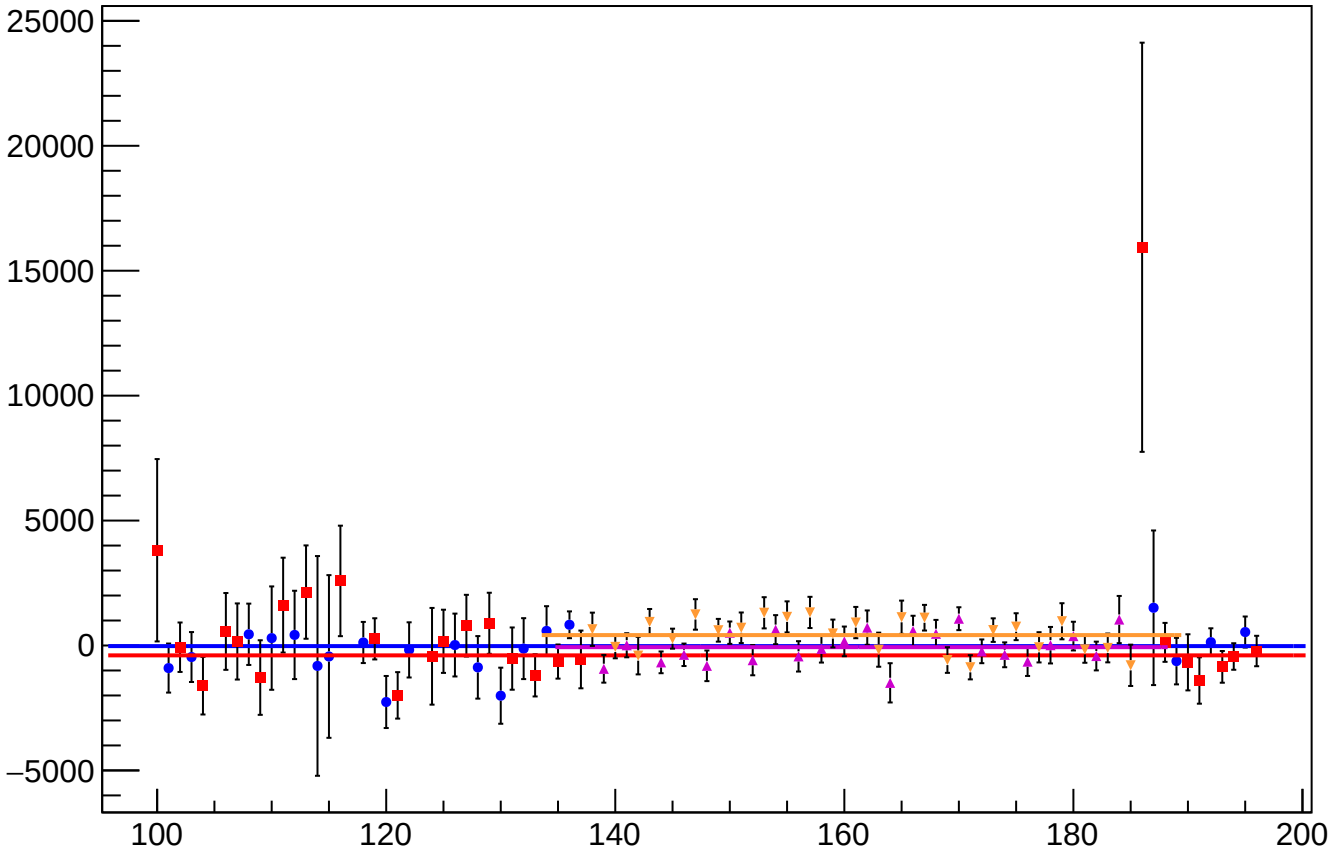
Left: 87.161+/-0.010 $\chi^2$/NDF: 1216502.5/47

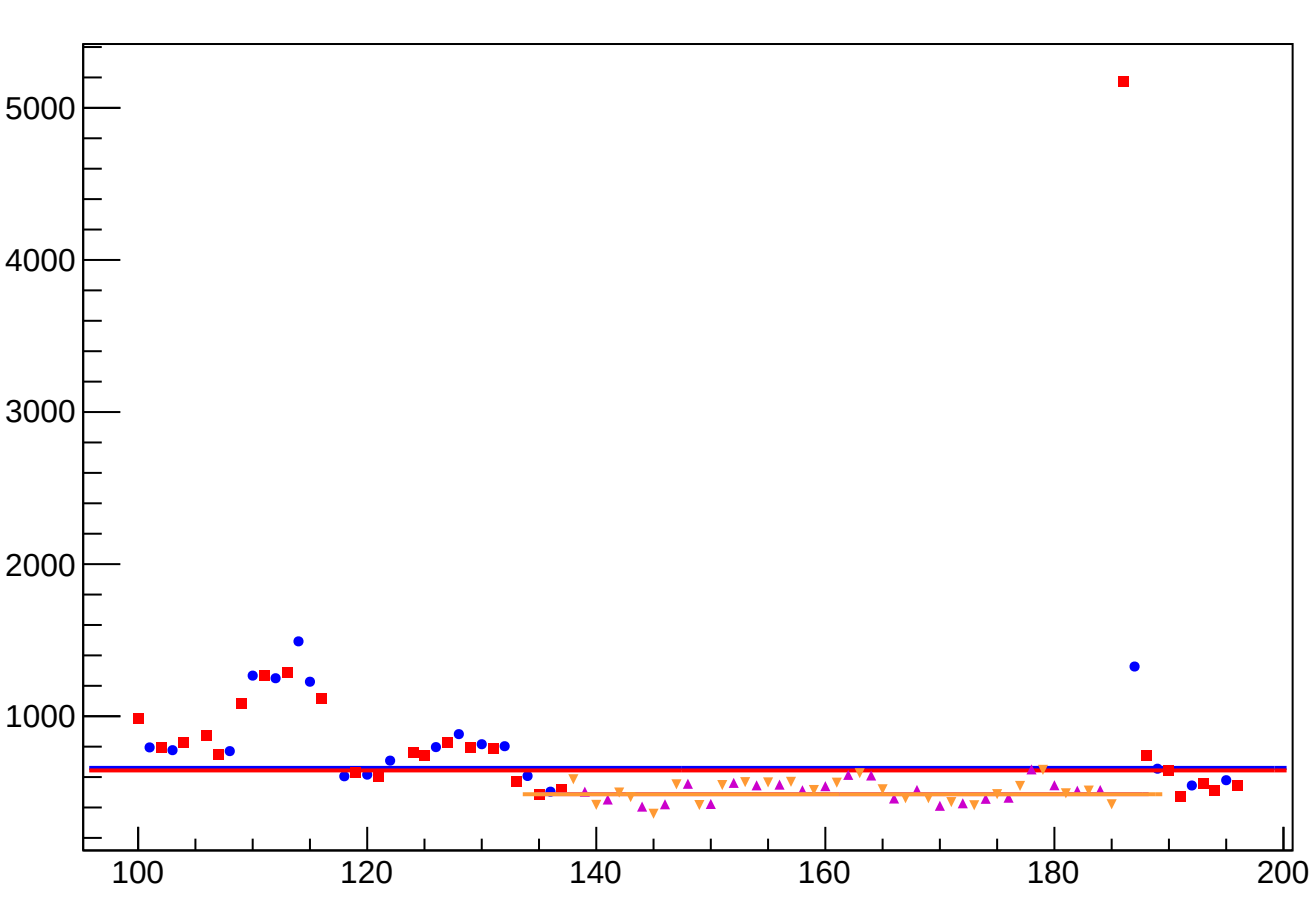
Right: 96.420+/-0.015 $\chi^2$/NDF: 1943704.8/45

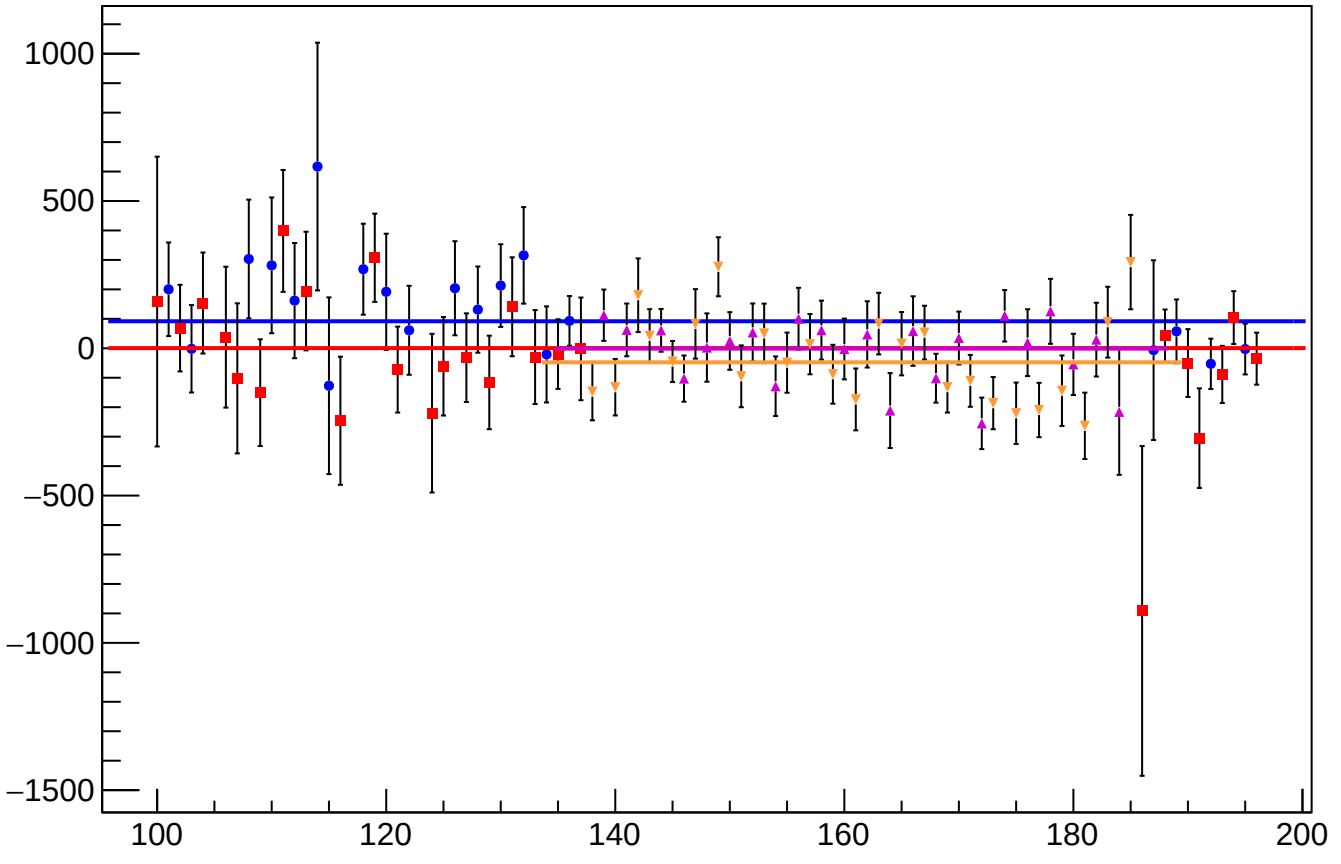
In: 90.096+/-0.012 $\chi^2$/NDF:1434189.9/42

Out: 90.041+/-0.012 $\chi^2$/NDF:1987494.0/50

All: 90.067+/-0.008 $\chi^2$/NDF: 3421694.5/93


asym_sam_26_48_dd_reg_correction_mean vs Slug, Sign Corrected
25000
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -24.079+/-218.386 χ²/NDF: 14.0/19
Left Out: 416.424+/-112.336 χ²/NDF:32.4/24
Right Out: -394.865+/-195.936 χ²/NDF: 21.4/25
Left In: -66.675+/-115.419 χ²/NDF:27.5/22
Left: 181.413+/-80.501 χ²/NDF: 68.9/47
Right: -229.504+/-145.841 χ²/NDF: 37.0/45
In: -57.375+/-102.044 χ²/NDF:41.6/42
Out: 215.721+/-97.455 χ²/NDF:66.7/50
All: 85.451+/-70.478 χ²/NDF: 112.0/93


asym_sam_26_48_dd_reg_correction_rms vs Slug, Sign Corrected
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 660.296+/-0.154 χ²/NDF: 1166477.2/19
Left Out: 487.081+/-0.079 χ²/NDF:821265.9/24
Right Out: 643.728+/-0.139 χ²/NDF: 2091071.0/25
Left In: 487.930+/-0.082 χ²/NDF:634269.5/22
Left: 487.494+/-0.057 χ²/NDF: 1455591.1/47
Right: 651.117+/-0.103 χ²/NDF: 3263925.4/45
In: 525.564+/-0.072 χ²/NDF:2774612.0/42
Out: 525.833+/-0.069 χ²/NDF:3874428.4/50
All: 525.705+/-0.050 χ²/NDF: 6649047.7/93




Right In: 91.733+/-31.572 $\chi^2$/NDF: 14.4/19

Left Out: -47.532+/-19.983 $\chi^2$/NDF:44.0/24

Right Out: 0.647+/-28.645 $\chi^2$/NDF: 23.1/25

Left In: -0.988+/-20.604 $\chi^2$/NDF:25.5/22

Left: -24.971+/-14.345 $\chi^2$/NDF: 72.1/47

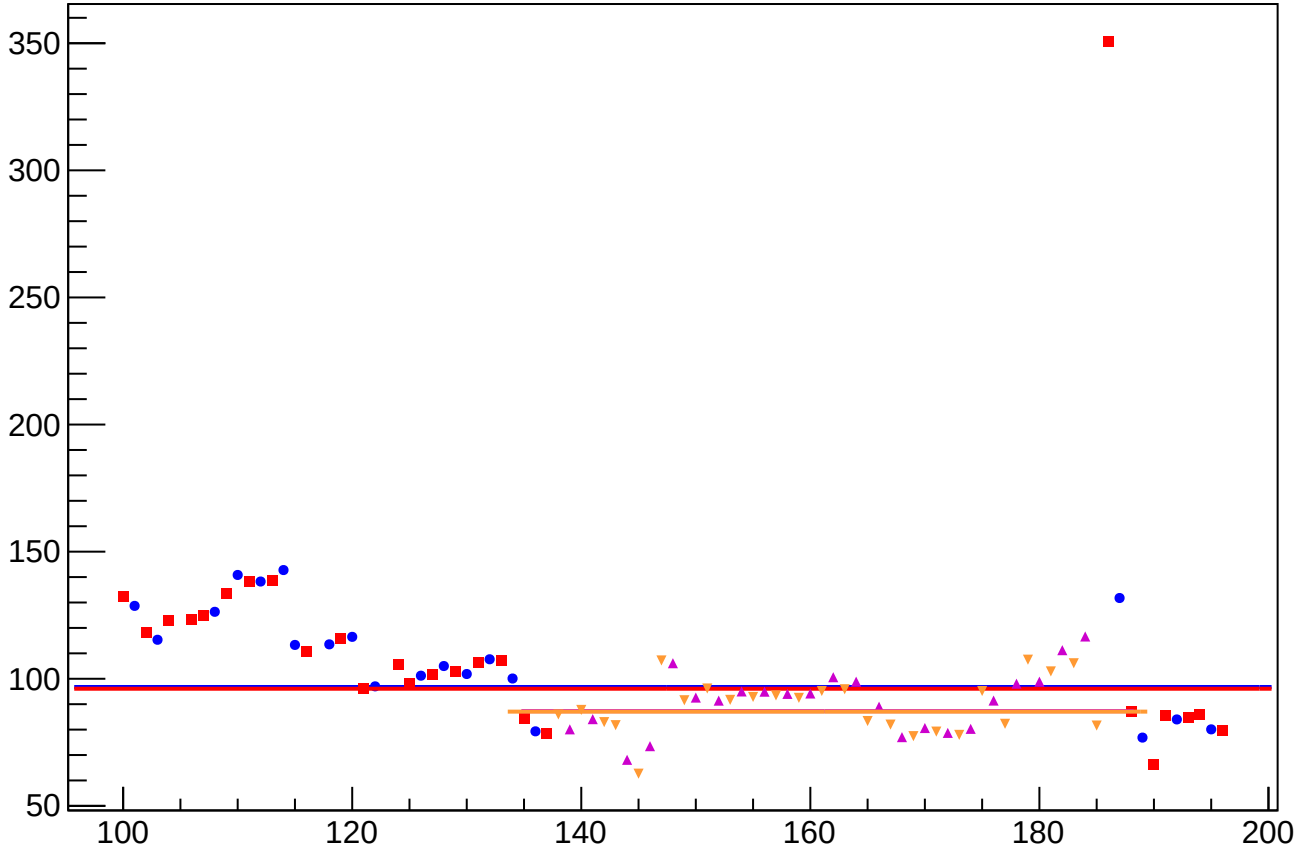
Right: 41.772+/-21.214 $\chi^2$/NDF: 42.0/45

In: 26.706+/-17.255 $\chi^2$/NDF:45.9/42

Out: -31.760+/-16.389 $\chi^2$/NDF:68.9/50

All: -4.030+/-11.883 $\chi^2$/NDF: 120.9/93

# cor_asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 96.763+/-0.022 $\chi^2$/NDF: 711242.6/19

Left Out: 87.072+/-0.014 $\chi^2$/NDF:620626.5/24

Right Out: 96.083+/-0.020 $\chi^2$/NDF: 1225326.7/25

Left In: 87.257+/-0.015 $\chi^2$/NDF:595793.1/22

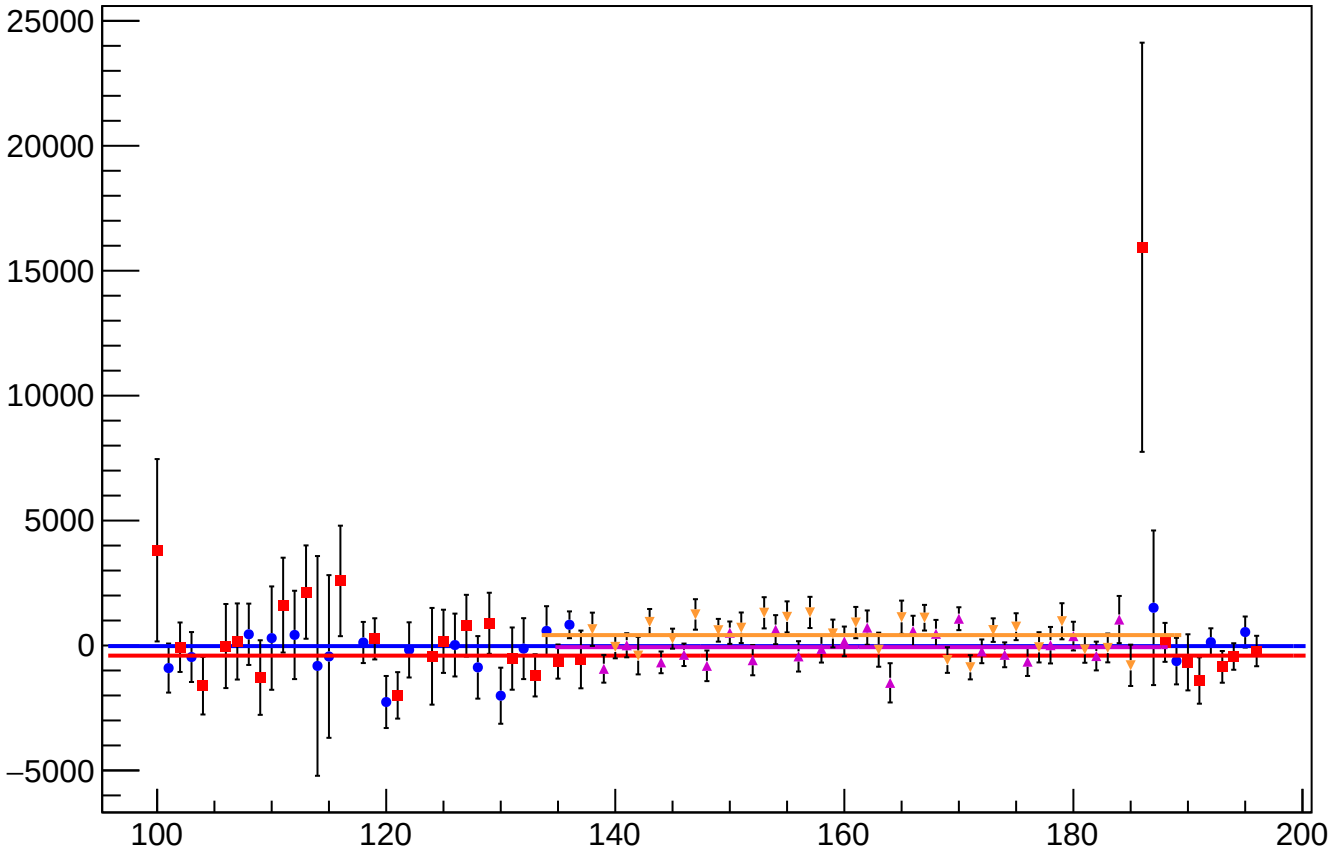
Left: 87.161+/-0.010 $\chi^2$/NDF: 1216502.6/47

Right: 96.390+/-0.015 $\chi^2$/NDF: 1937078.0/45

In: 90.096+/-0.012 $\chi^2$/NDF:1434190.3/42

Out: 90.022+/-0.012 $\chi^2$/NDF:1979078.5/50

All: 90.057+/-0.008 $\chi^2$/NDF: 3413288.3/93




Right In: -24.076+/-218.387 $\chi^2$/NDF: 14.0/19

Left Out: 416.416+/-112.336 $\chi^2$/NDF:32.4/24

Right Out: -405.390+/-196.205 $\chi^2$/NDF: 21.0/25

Left In: -66.674+/-115.419 $\chi^2$/NDF:27.5/22

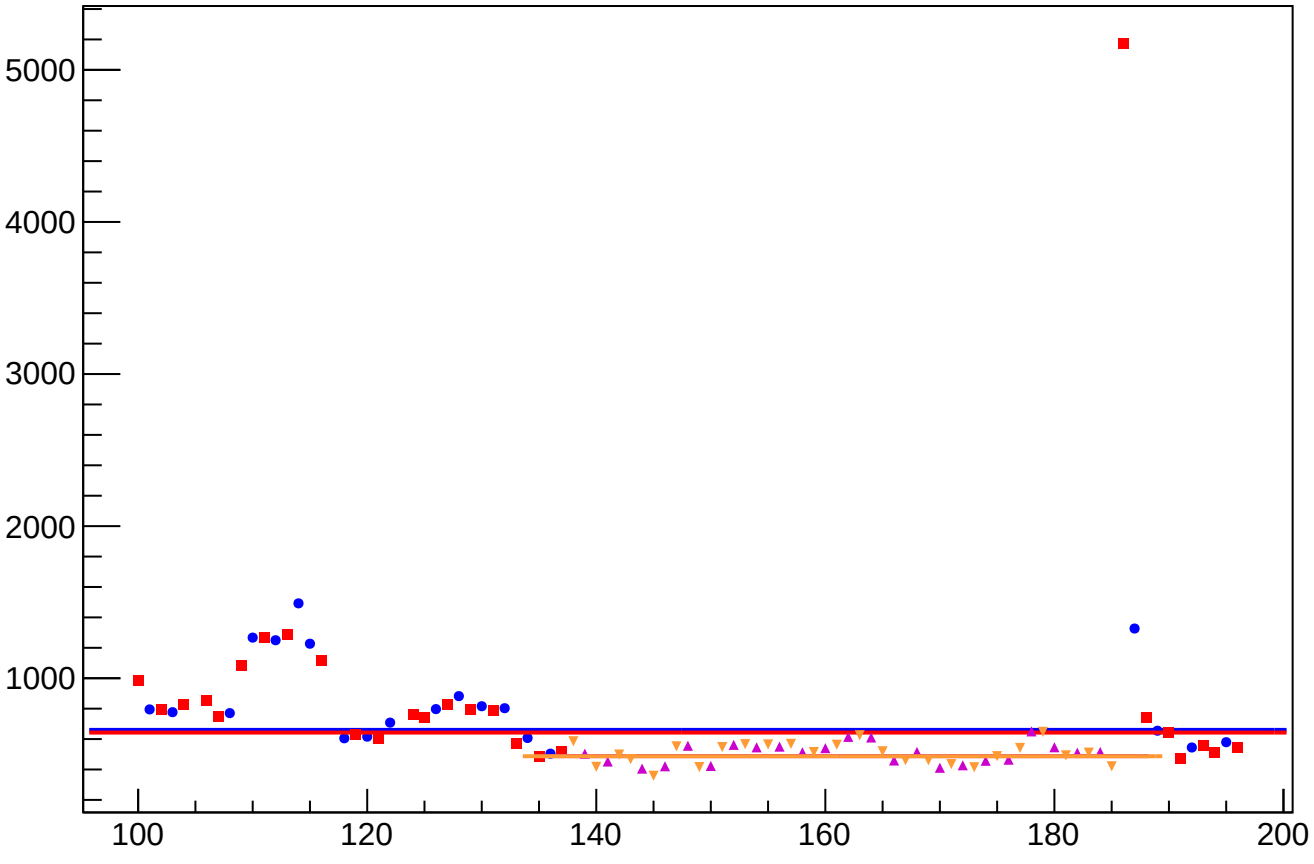
Left: 181.409+/-80.501 $\chi^2$/NDF: 68.9/47

Right: -235.077+/-145.952 $\chi^2$/NDF: 36.7/45

In: -57.374+/-102.044 $\chi^2$/NDF:41.6/42

Out: 213.530+/-97.488 $\chi^2$/NDF:66.7/50

All: 84.260+/-70.490 $\chi^2$/NDF: 111.9/93




Right In: 660.296+/-0.154 $\chi^2$/NDF: 1166488.6/19

Left Out: 487.081+/-0.079 $\chi^2$/NDF:821261.6/24

Right Out: 642.841+/-0.139 $\chi^2$/NDF: 2077502.9/25

Left In: 487.930+/-0.082 $\chi^2$/NDF:634273.3/22

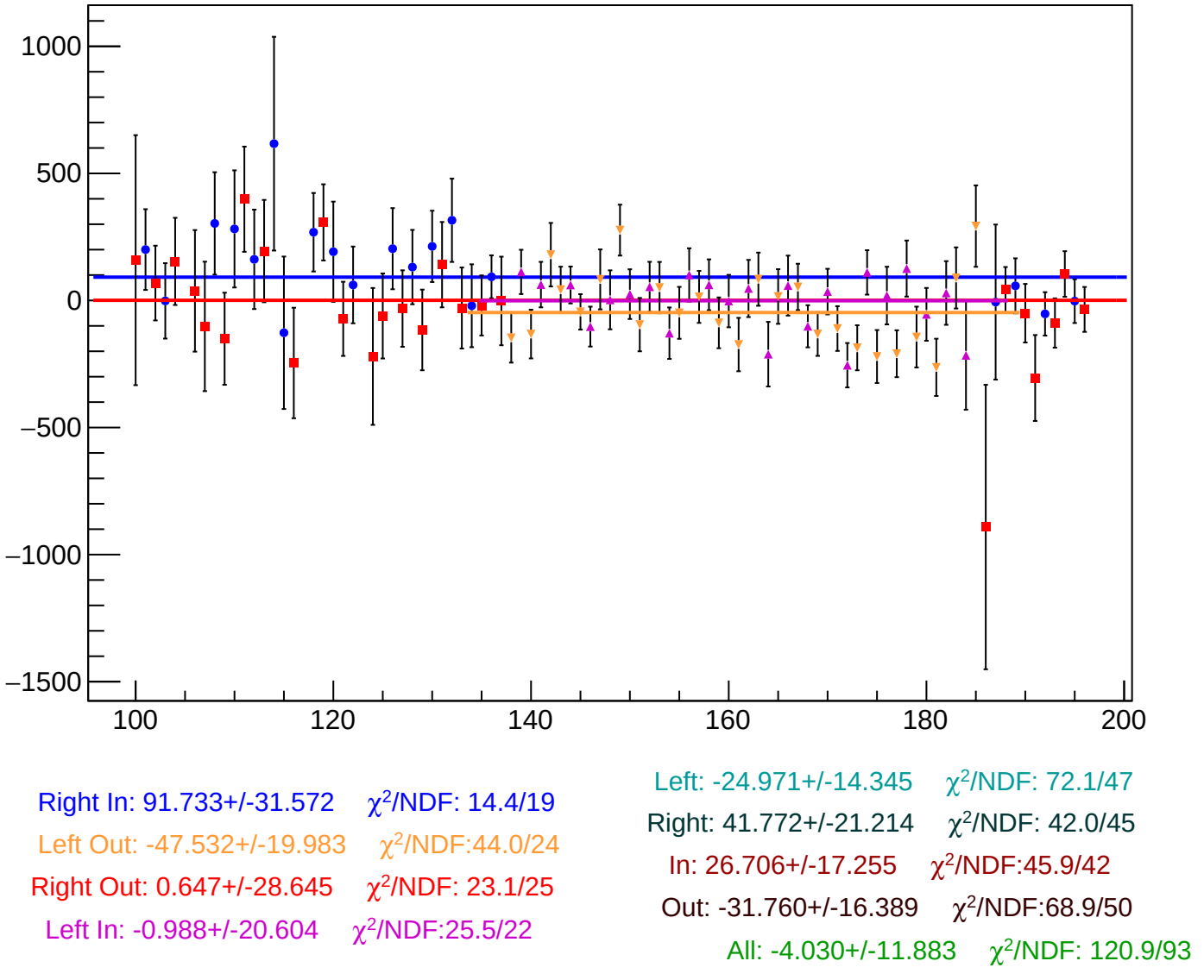
Left: 487.494+/-0.057 $\chi^2$/NDF: 1455590.6/47

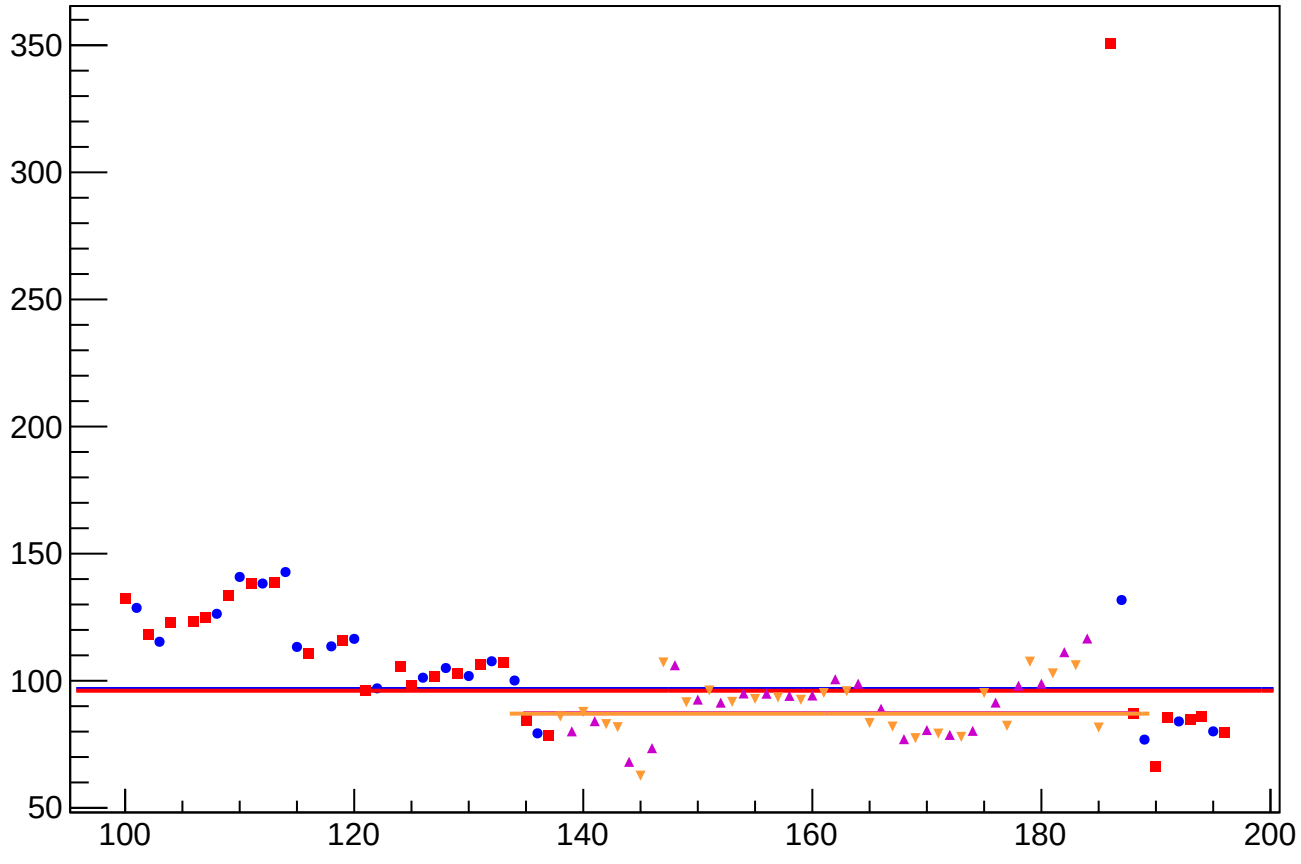
Right: 650.637+/-0.103 $\chi^2$/NDF: 3251061.5/45

In: 525.564+/-0.072 $\chi^2$/NDF:2774628.3/42

Out: 525.535+/-0.069 $\chi^2$/NDF:3848028.8/50

All: 525.549+/-0.050 $\chi^2$/NDF: 6622657.2/93


eigen_cor_asym_sam_26_48_dd_mean vs Slug, Sign Corrected
1000
500
0
−500
−1000
−1500
100
120
140
160
180
200
Right In: 91.733+/-31.572 χ²/NDF: 14.4/19
Left Out: -47.532+/-19.983 χ²/NDF:44.0/24
Right Out: 0.647+/-28.645 χ²/NDF: 23.1/25
Left In: -0.988+/-20.604 χ²/NDF:25.5/22
Left: -24.971+/-14.345 χ²/NDF: 72.1/47
Right: 41.772+/-21.214 χ²/NDF: 42.0/45
In: 26.706+/-17.255 χ²/NDF:45.9/42
Out: -31.760+/-16.389 χ²/NDF:68.9/50
All: -4.030+/-11.883 χ²/NDF: 120.9/93




Right In: 96.763+/-0.022 $\chi^2$/NDF: 711242.6/19

Left Out: 87.072+/-0.014 $\chi^2$/NDF:620626.5/24

Right Out: 96.083+/-0.020 $\chi^2$/NDF: 1225326.7/25

Left In: 87.257+/-0.015 $\chi^2$/NDF:595793.1/22

Left: 87.161+/-0.010 $\chi^2$/NDF: 1216502.6/47

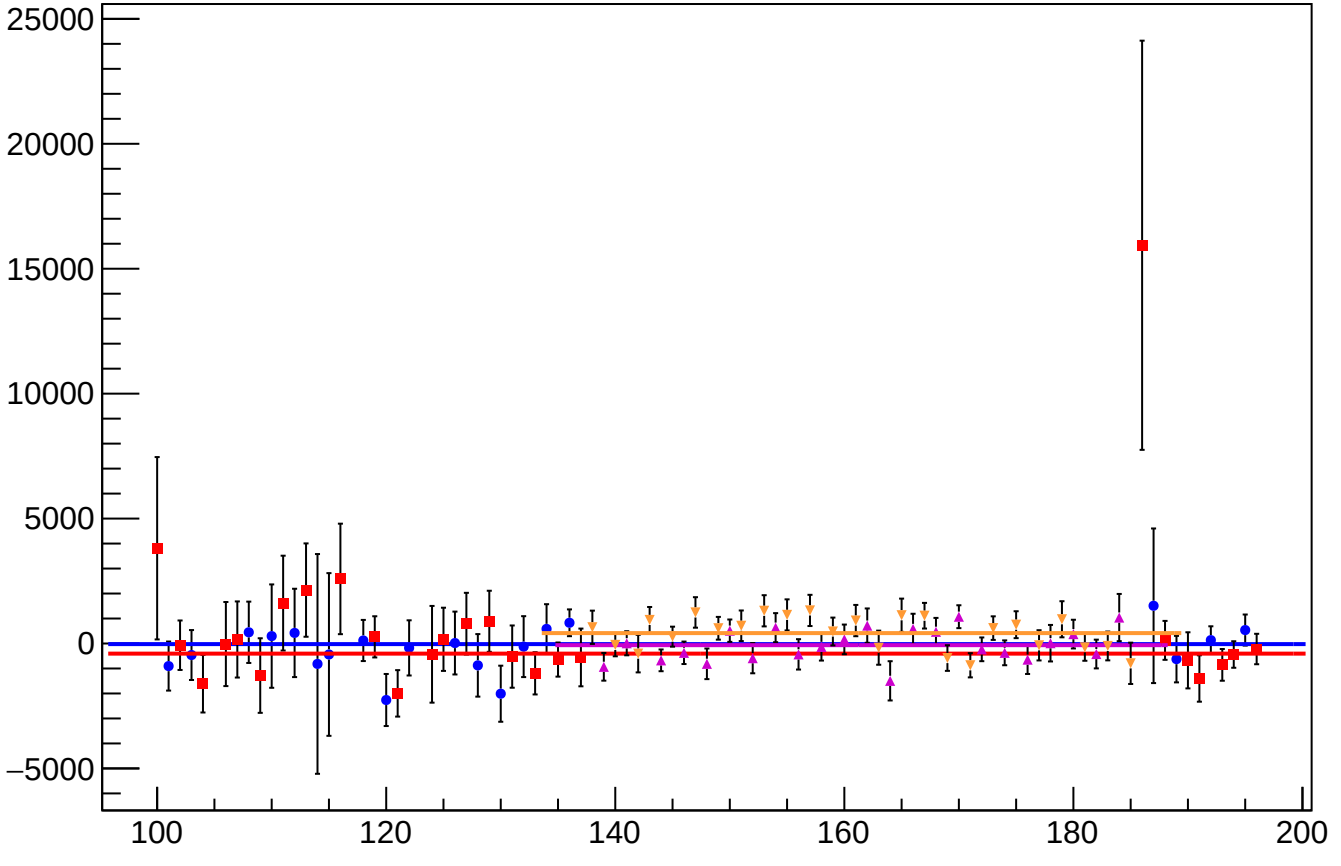
Right: 96.390+/-0.015 $\chi^2$/NDF: 1937078.0/45

In: 90.096+/-0.012 $\chi^2$/NDF:1434190.3/42

Out: 90.022+/-0.012 $\chi^2$/NDF:1979078.5/50

All: 90.057+/-0.008 $\chi^2$/NDF: 3413288.3/93

asym_sam_26_48_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -24.076+/-218.387 $\chi^2$/NDF: 14.0/19

Left Out: 416.416+/-112.336 $\chi^2$/NDF:32.4/24

Right Out: -405.390+/-196.205 $\chi^2$/NDF: 21.0/25

Left In: -66.674+/-115.419 $\chi^2$/NDF:27.5/22

Left: 181.409+/-80.501 $\chi^2$/NDF: 68.9/47

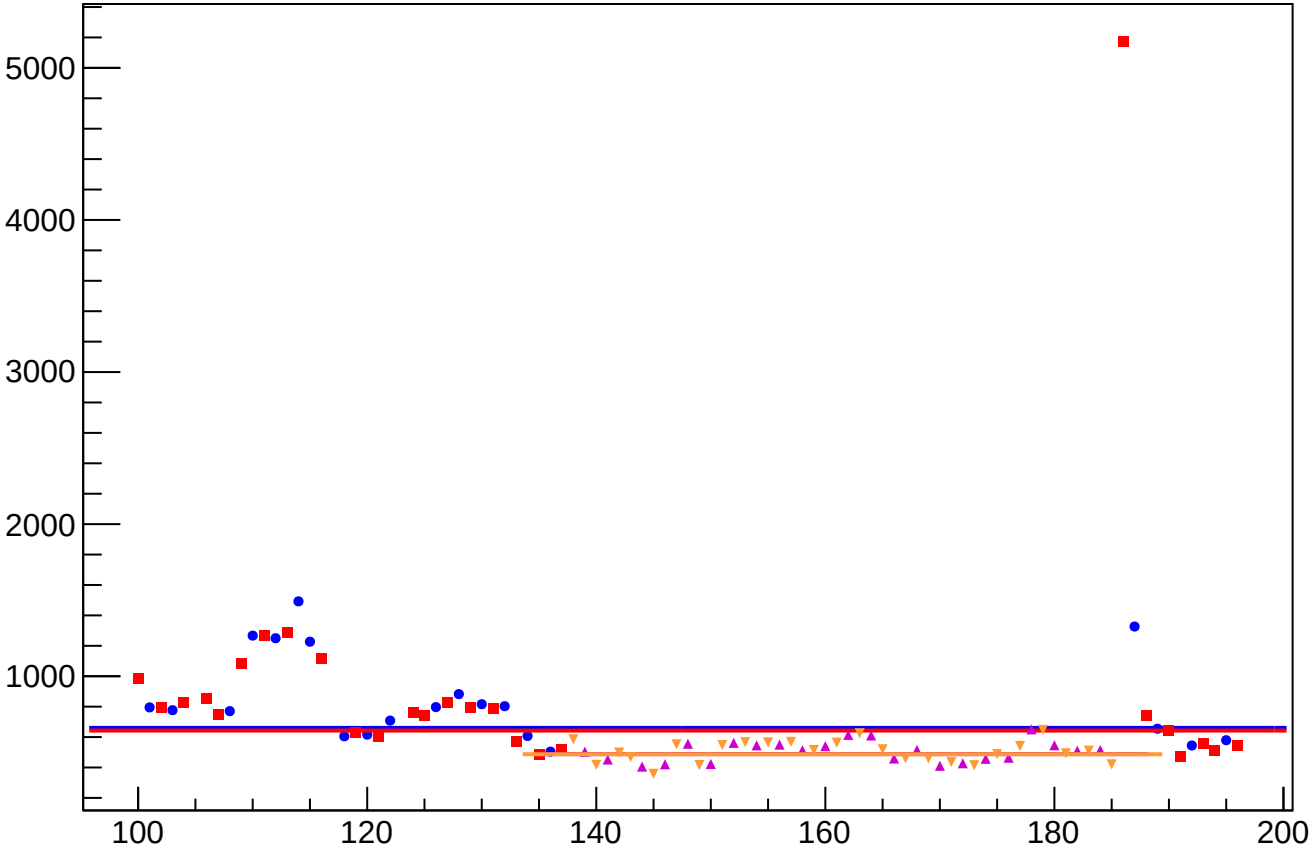
Right: -235.077+/-145.952 $\chi^2$/NDF: 36.7/45

In: -57.374+/-102.044 $\chi^2$/NDF:41.6/42

Out: 213.530+/-97.488 $\chi^2$/NDF:66.7/50

All: 84.260+/-70.490 $\chi^2$/NDF: 111.9/93

asym_sam_26_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 660.296+/-0.154 $\chi^2$/NDF: 1166488.6/19

Left Out: 487.081+/-0.079 $\chi^2$/NDF:821261.6/24

Right Out: 642.841+/-0.139 $\chi^2$/NDF: 2077502.9/25

Left In: 487.930+/-0.082 $\chi^2$/NDF:634273.3/22

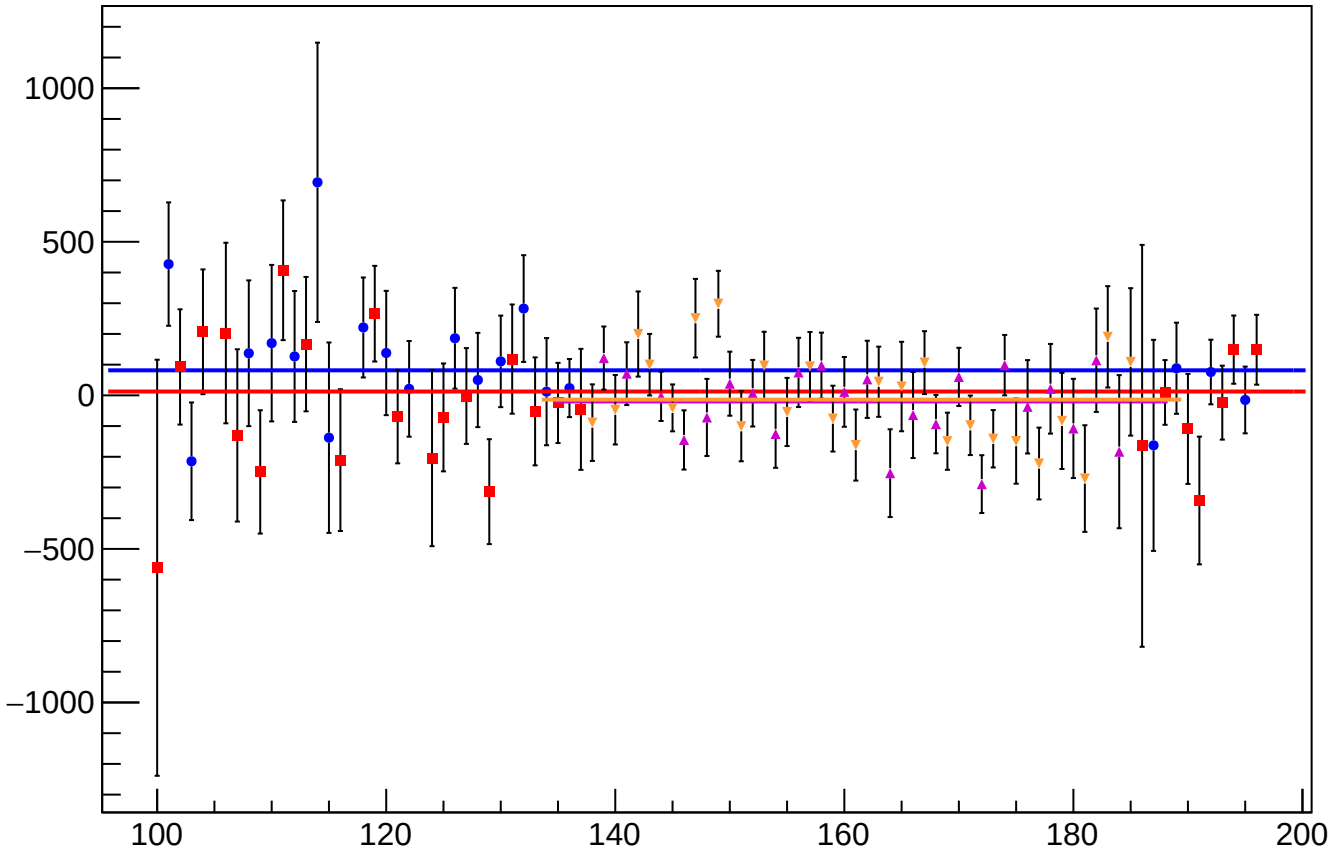
Left: 487.494+/-0.057 $\chi^2$/NDF: 1455590.6/47

Right: 650.637+/-0.103 $\chi^2$/NDF: 3251061.5/45

In: 525.564+/-0.072 $\chi^2$/NDF:2774628.3/42

Out: 525.535+/-0.069 $\chi^2$/NDF:3848028.8/50

All: 525.549+/-0.050 $\chi^2$/NDF: 6622657.2/93




Right In: 81.517+/-36.341 $\chi^2$/NDF: 12.5/19

Left Out: -13.904+/-22.916 $\chi^2$/NDF:36.4/24

Right Out: 12.493+/-33.521 $\chi^2$/NDF: 23.2/25

Left In: -19.805+/-23.571 $\chi^2$/NDF:23.3/22

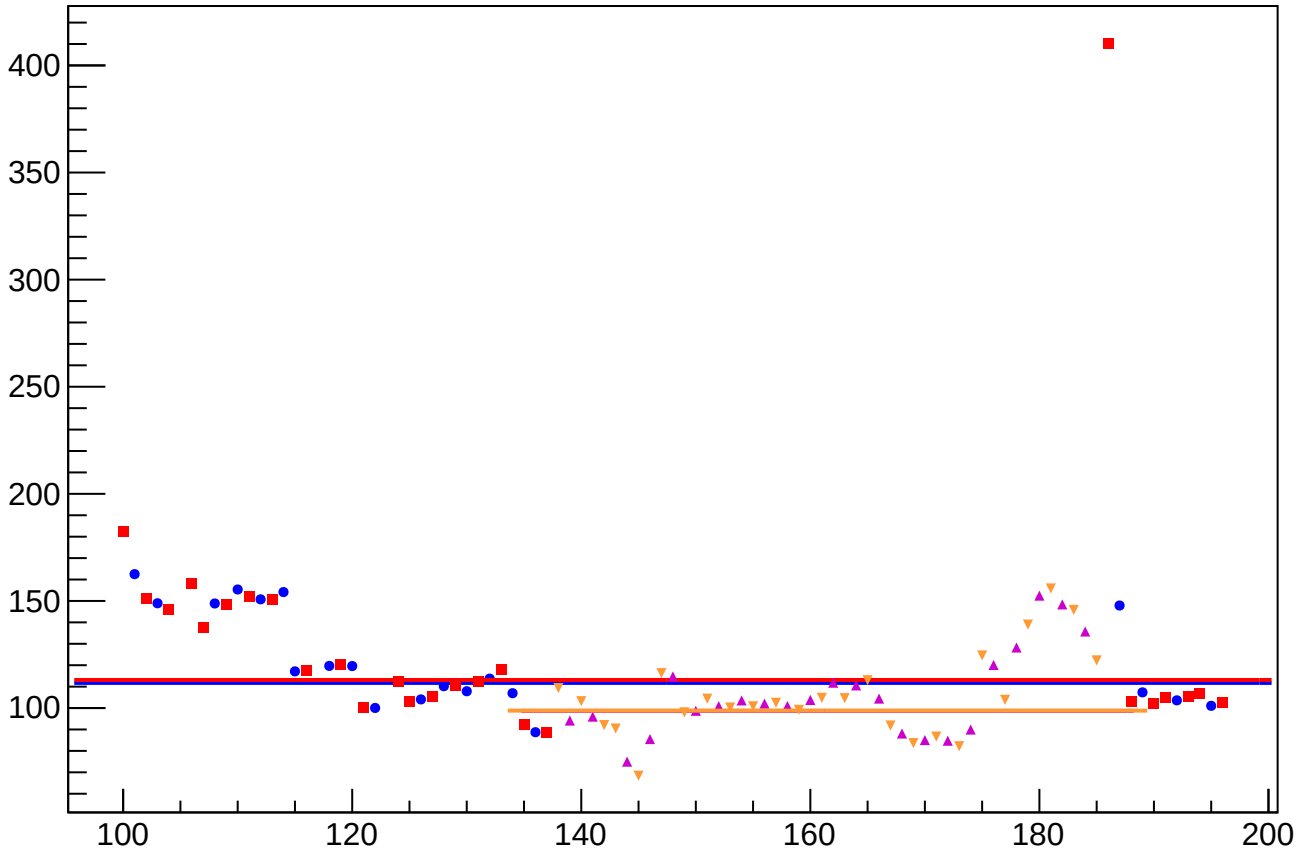
Left: -16.771+/-16.431 $\chi^2$/NDF: 59.7/47

Right: 44.224+/-24.640 $\chi^2$/NDF: 37.6/45

In: 10.199+/-19.776 $\chi^2$/NDF:41.3/42

Out: -5.497+/-18.918 $\chi^2$/NDF:60.0/50

All: 2.003+/-13.670 $\chi^2$/NDF: 101.6/93




Right In: 111.745+/-0.026 $\chi^2$/NDF: 596157.0/19

Left Out: 98.799+/-0.016 $\chi^2$/NDF:1185806.0/24

Right Out: 113.105+/-0.024 $\chi^2$/NDF: 984805.3/25

Left In: 98.673+/-0.017 $\chi^2$/NDF:987817.0/22

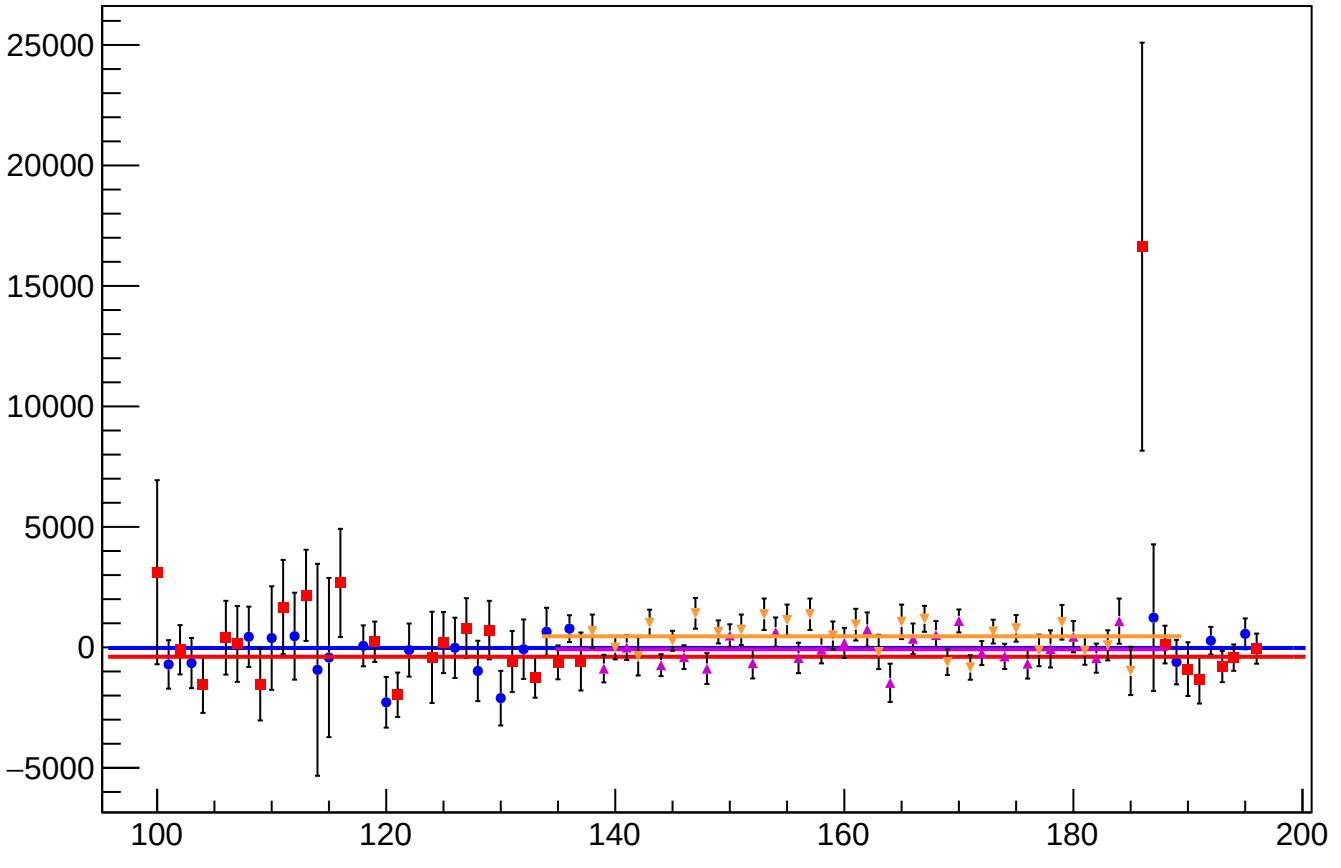
Left: 98.738+/-0.012 $\chi^2$/NDF: 2173652.3/47

Right: 112.480+/-0.017 $\chi^2$/NDF: 1582474.6/45

In: 102.544+/-0.014 $\chi^2$/NDF:1766137.2/42

Out: 103.355+/-0.013 $\chi^2$/NDF:2418869.2/50

All: 102.968+/-0.010 $\chi^2$/NDF: 4186764.2/93




Right In: -24.390+/-223.523 $\chi^2$/NDF: 13.9/19

Left Out: 459.094+/-118.111 $\chi^2$/NDF:30.8/24

Right Out: -389.615+/-199.483 $\chi^2$/NDF: 20.6/25

Left In: -78.791+/-121.436 $\chi^2$/NDF:26.2/22

Left: 197.616+/-84.668 $\chi^2$/NDF: 67.1/47

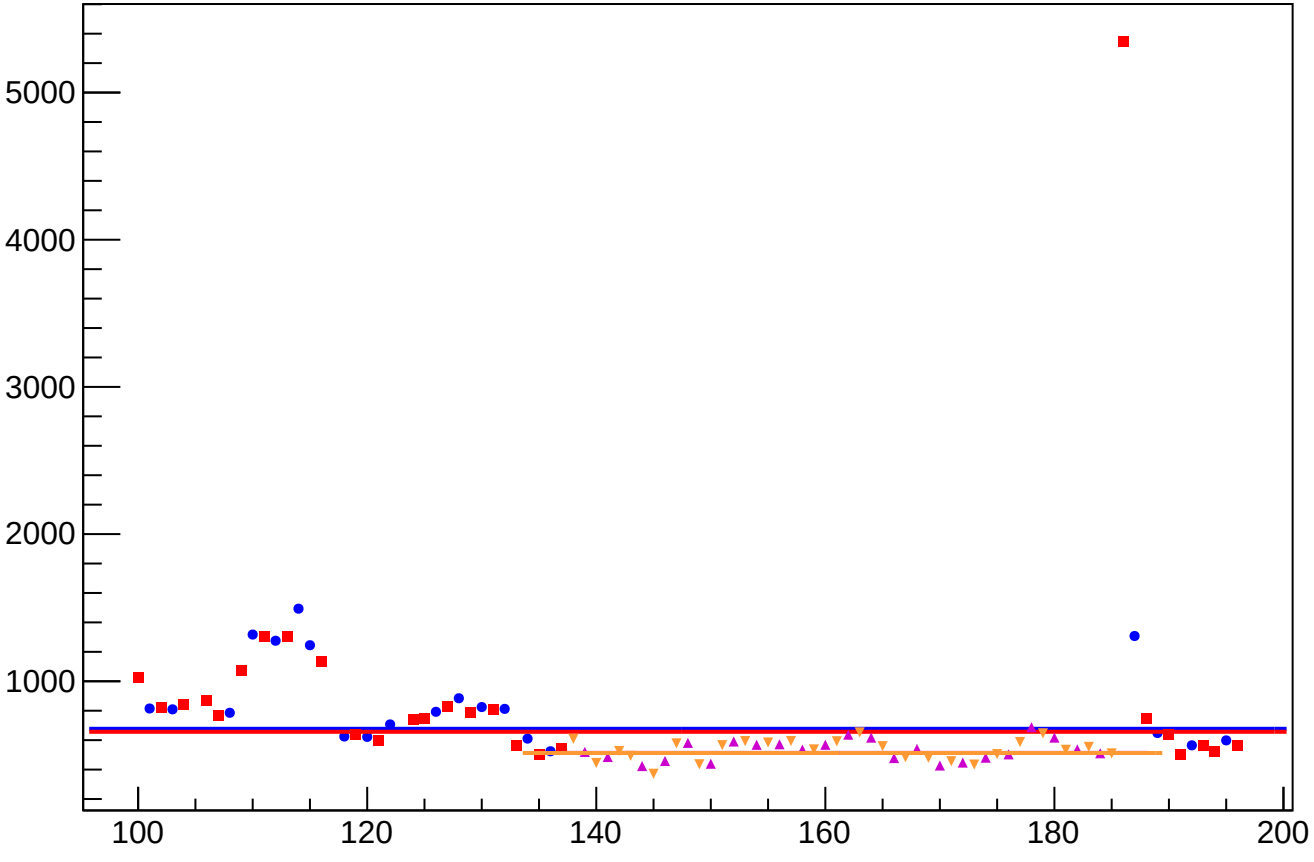
Right: -227.692+/-148.832 $\chi^2$/NDF: 36.0/45

In: -66.393+/-106.706 $\chi^2$/NDF:40.2/42

Out: 238.794+/-101.633 $\chi^2$/NDF:64.8/50

All: 93.627+/-73.593 $\chi^2$/NDF: 109.3/93

asym_sam_26_48_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 677.122+/-0.158 $\chi^2$/NDF: 1108116.3/19

Left Out: 512.768+/-0.084 $\chi^2$/NDF:799239.4/24

Right Out: 656.785+/-0.141 $\chi^2$/NDF: 2021227.2/25

Left In: 513.375+/-0.086 $\chi^2$/NDF:634000.2/22

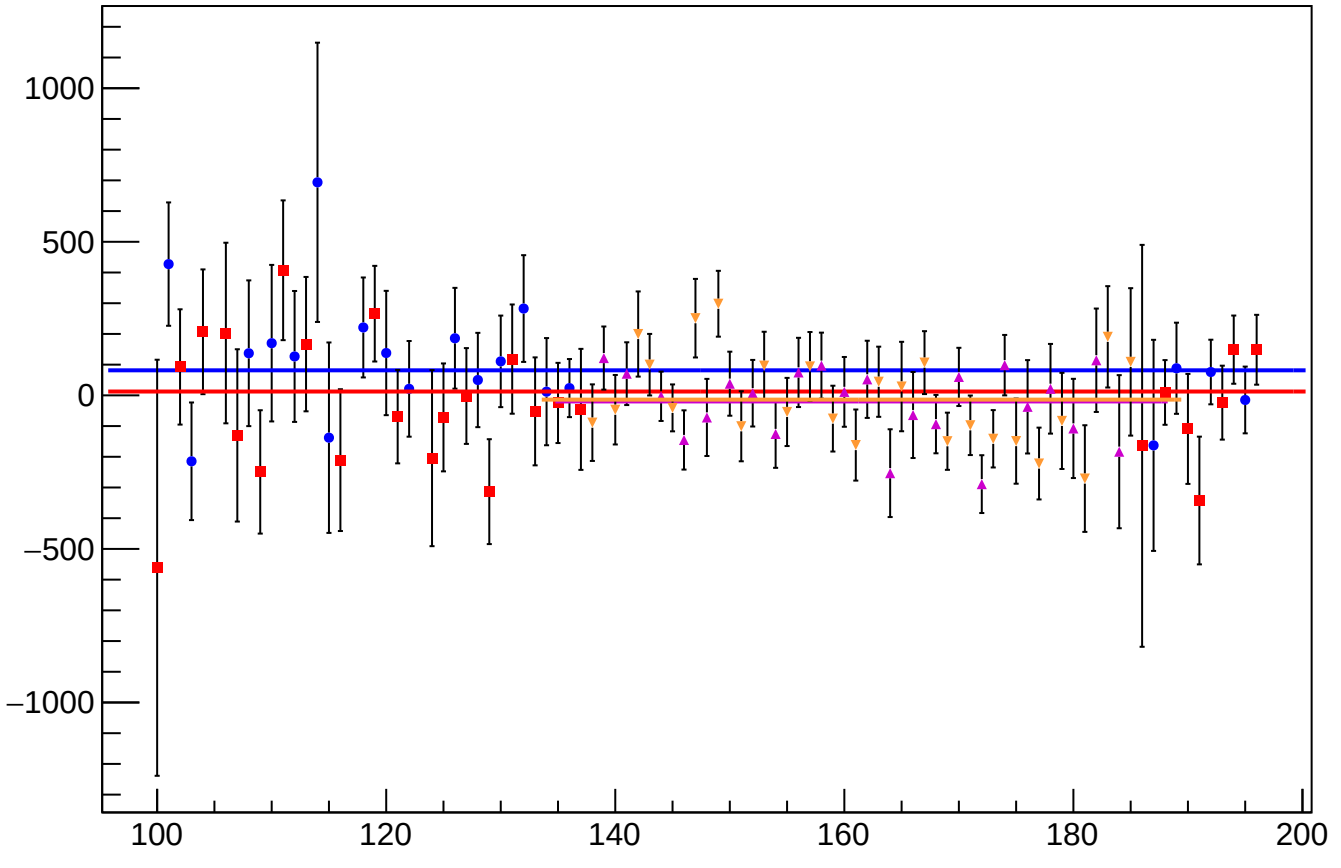
Left: 513.063+/-0.060 $\chi^2$/NDF: 1433265.3/47

Right: 665.801+/-0.105 $\chi^2$/NDF: 3138559.5/45

In: 550.691+/-0.075 $\chi^2$/NDF:2570841.6/42

Out: 550.151+/-0.072 $\chi^2$/NDF:3592302.2/50

All: 550.408+/-0.052 $\chi^2$/NDF: 6163170.7/93




Right In: 81.516+/-36.341 $\chi^2$/NDF: 12.5/19

Left Out: -13.906+/-22.916 $\chi^2$/NDF:36.4/24

Right Out: 12.494+/-33.521 $\chi^2$/NDF: 23.2/25

Left In: -19.805+/-23.571 $\chi^2$/NDF:23.3/22

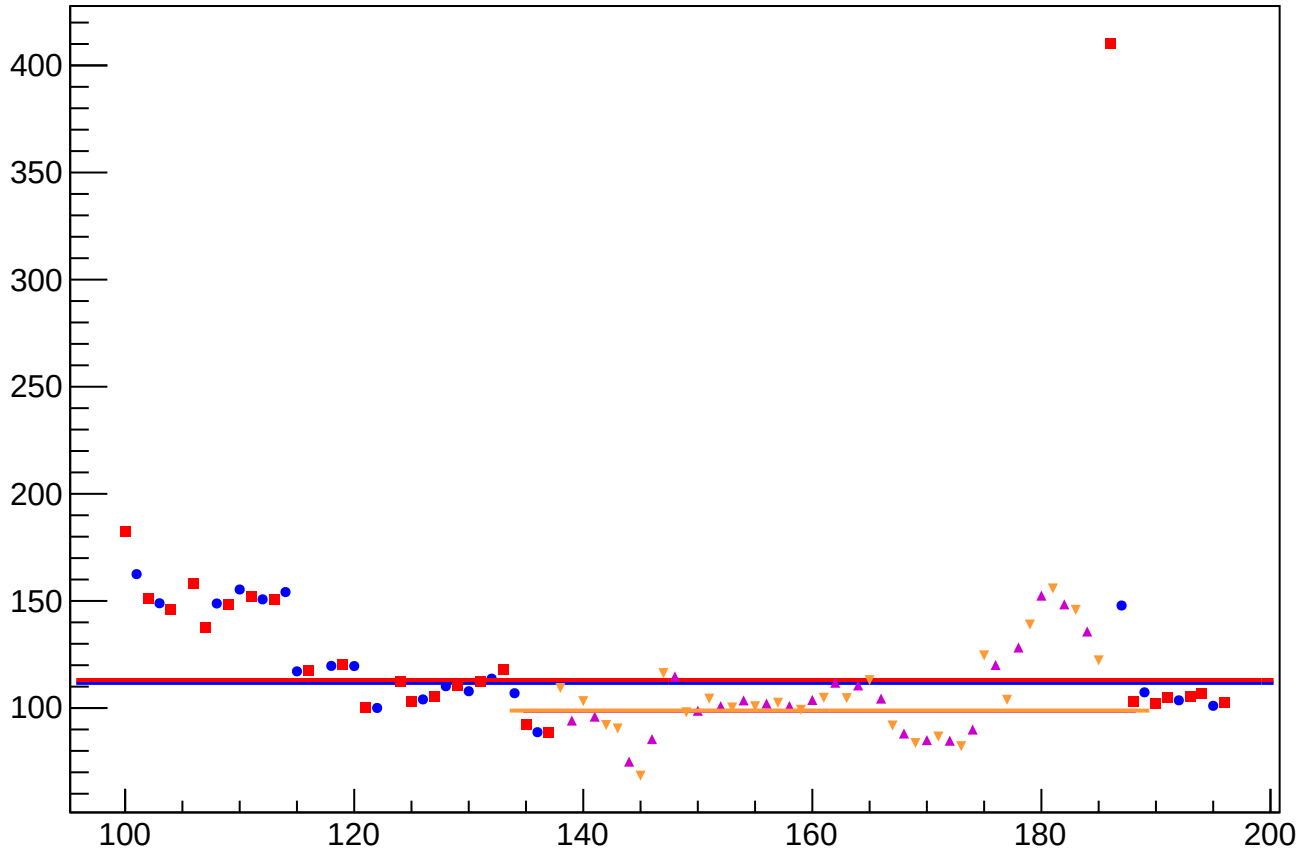
Left: -16.773+/-16.431 $\chi^2$/NDF: 59.7/47

Right: 44.224+/-24.640 $\chi^2$/NDF: 37.6/45

In: 10.198+/-19.776 $\chi^2$/NDF:41.3/42

Out: -5.498+/-18.918 $\chi^2$/NDF:60.0/50

All: 2.003+/-13.670 $\chi^2$/NDF: 101.6/93




Right In: 111.746+/-0.026 $\chi^2$/NDF: 596141.9/19

Left Out: 98.799+/-0.016 $\chi^2$/NDF:1185809.9/24

Right Out: 113.105+/-0.024 $\chi^2$/NDF: 984790.8/25

Left In: 98.673+/-0.017 $\chi^2$/NDF:987808.4/22

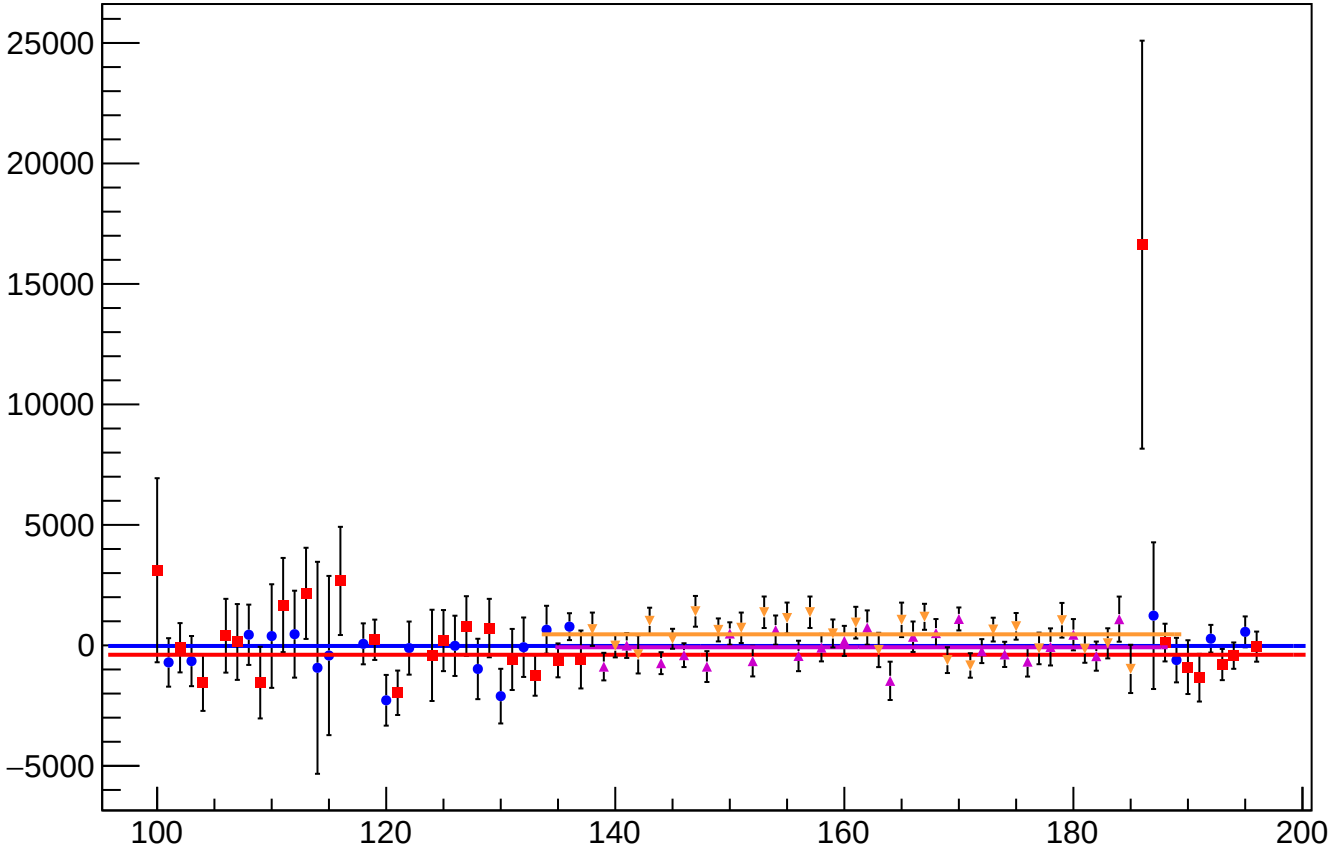
Left: 98.737+/-0.012 $\chi^2$/NDF: 2173647.6/47

Right: 112.480+/-0.017 $\chi^2$/NDF: 1582444.8/45

In: 102.544+/-0.014 $\chi^2$/NDF:1766119.3/42

Out: 103.355+/-0.013 $\chi^2$/NDF:2418863.9/50

All: 102.968+/-0.010 $\chi^2$/NDF: 4186740.7/93




Right In: -24.391+/-223.523 $\chi^2$/NDF: 13.9/19

Left Out: 459.092+/-118.111 $\chi^2$/NDF:30.8/24

Right Out: -389.614+/-199.483 $\chi^2$/NDF: 20.6/25

Left In: -78.791+/-121.436 $\chi^2$/NDF:26.2/22

Left: 197.616+/-84.668 $\chi^2$/NDF: 67.1/47

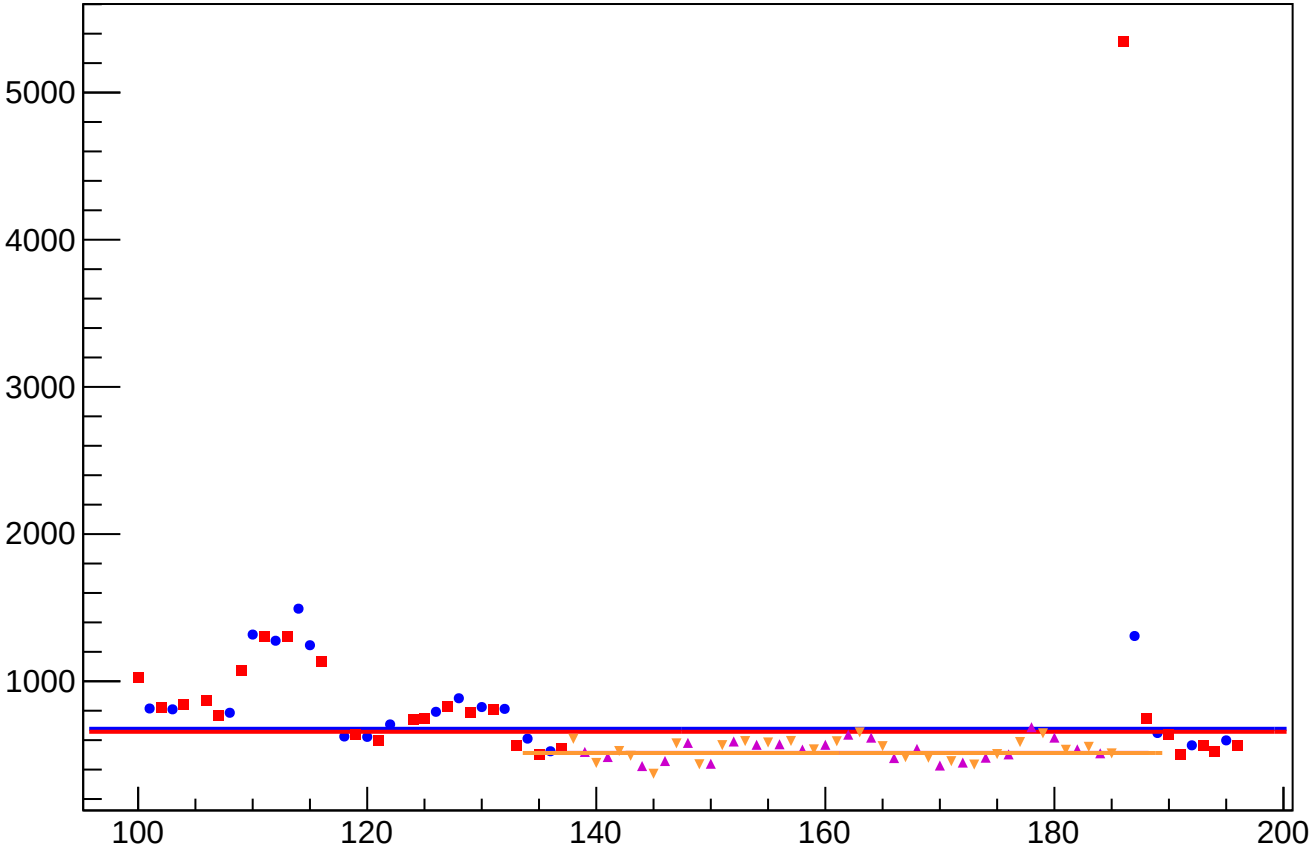
Right: -227.692+/-148.832 $\chi^2$/NDF: 36.0/45

In: -66.393+/-106.706 $\chi^2$/NDF:40.2/42

Out: 238.793+/-101.633 $\chi^2$/NDF:64.8/50

All: 93.627+/-73.593 $\chi^2$/NDF: 109.3/93

asym_sam_26_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 677.121+/-0.158 $\chi^2$/NDF: 1108114.2/19

Left Out: 512.768+/-0.084 $\chi^2$/NDF:799239.0/24

Right Out: 656.784+/-0.141 $\chi^2$/NDF: 2021224.1/25

Left In: 513.374+/-0.086 $\chi^2$/NDF:633997.9/22

Left: 513.063+/-0.060 $\chi^2$/NDF: 1433262.5/47

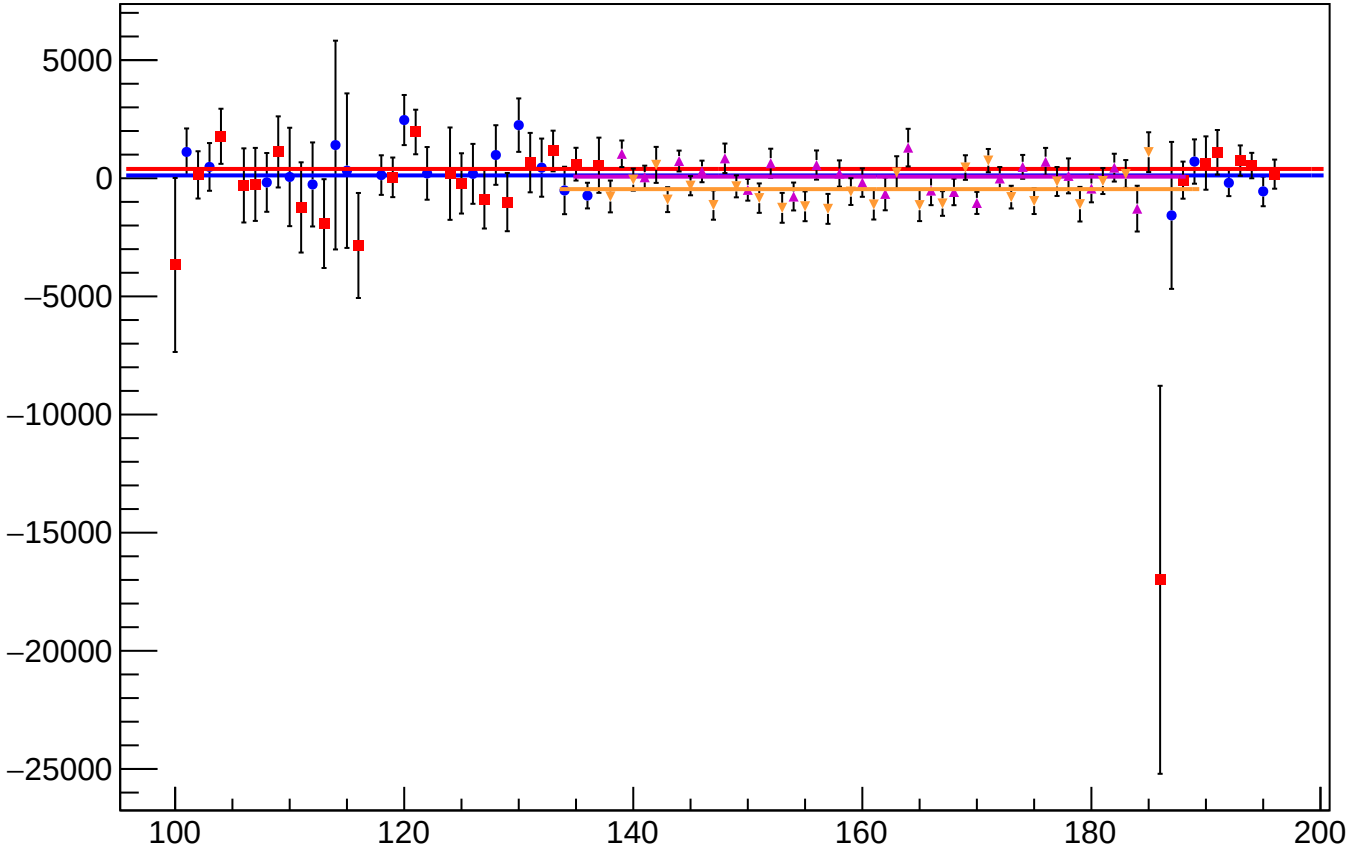
Right: 665.800+/-0.105 $\chi^2$/NDF: 3138554.7/45

In: 550.691+/-0.075 $\chi^2$/NDF:2570833.4/42

Out: 550.150+/-0.072 $\chi^2$/NDF:3592290.9/50

All: 550.408+/-0.052 $\chi^2$/NDF: 6163151.3/93

# asym_sam_26_48_dd_mean vs Slug, Sign Corrected




Right In: 120.188+/-220.954 $\chi^2$/NDF: 15.3/19

Left Out: -459.862+/-114.233 $\chi^2$/NDF:30.8/24

Right Out: 394.258+/-198.363 $\chi^2$/NDF: 20.1/25

Left In: 68.043+/-117.366 $\chi^2$/NDF:28.6/22

Left: -203.051+/-81.860 $\chi^2$/NDF: 69.8/47

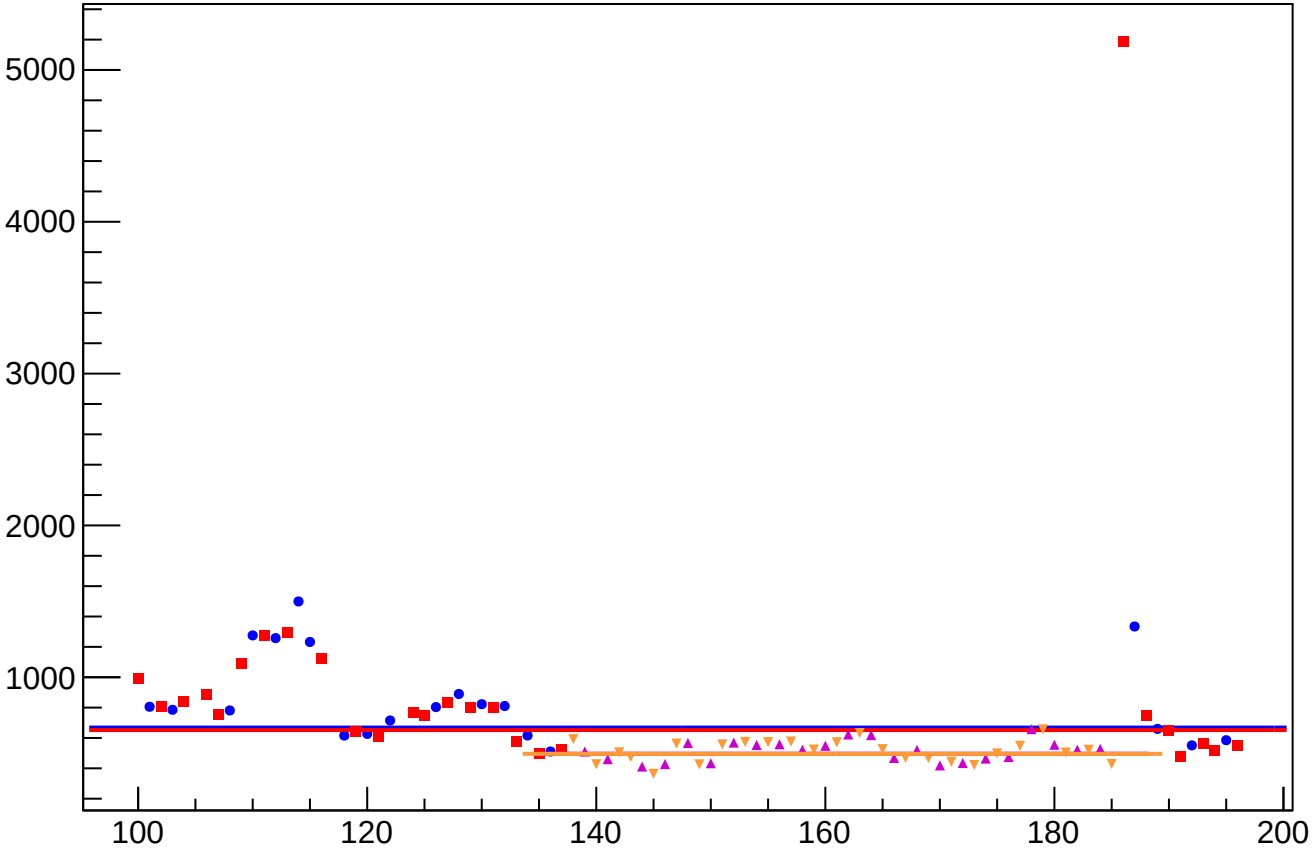
Right: 271.947+/-147.606 $\chi^2$/NDF: 36.2/45

In: 79.518+/-103.651 $\chi^2$/NDF:44.0/42

Out: -247.149+/-98.991 $\chi^2$/NDF:64.8/50

All: -91.323+/-71.588 $\chi^2$/NDF: 114.0/93

# asym_sam_26_48_dd_rms vs Slug, Sign Corrected




Right In: 668.388+/-0.156 $\chi^2$/NDF: 1151776.7/19

Left Out: 495.514+/-0.081 $\chi^2$/NDF:804659.4/24

Right Out: 652.122+/-0.140 $\chi^2$/NDF: 2066988.1/25

Left In: 496.307+/-0.083 $\chi^2$/NDF:622356.2/22

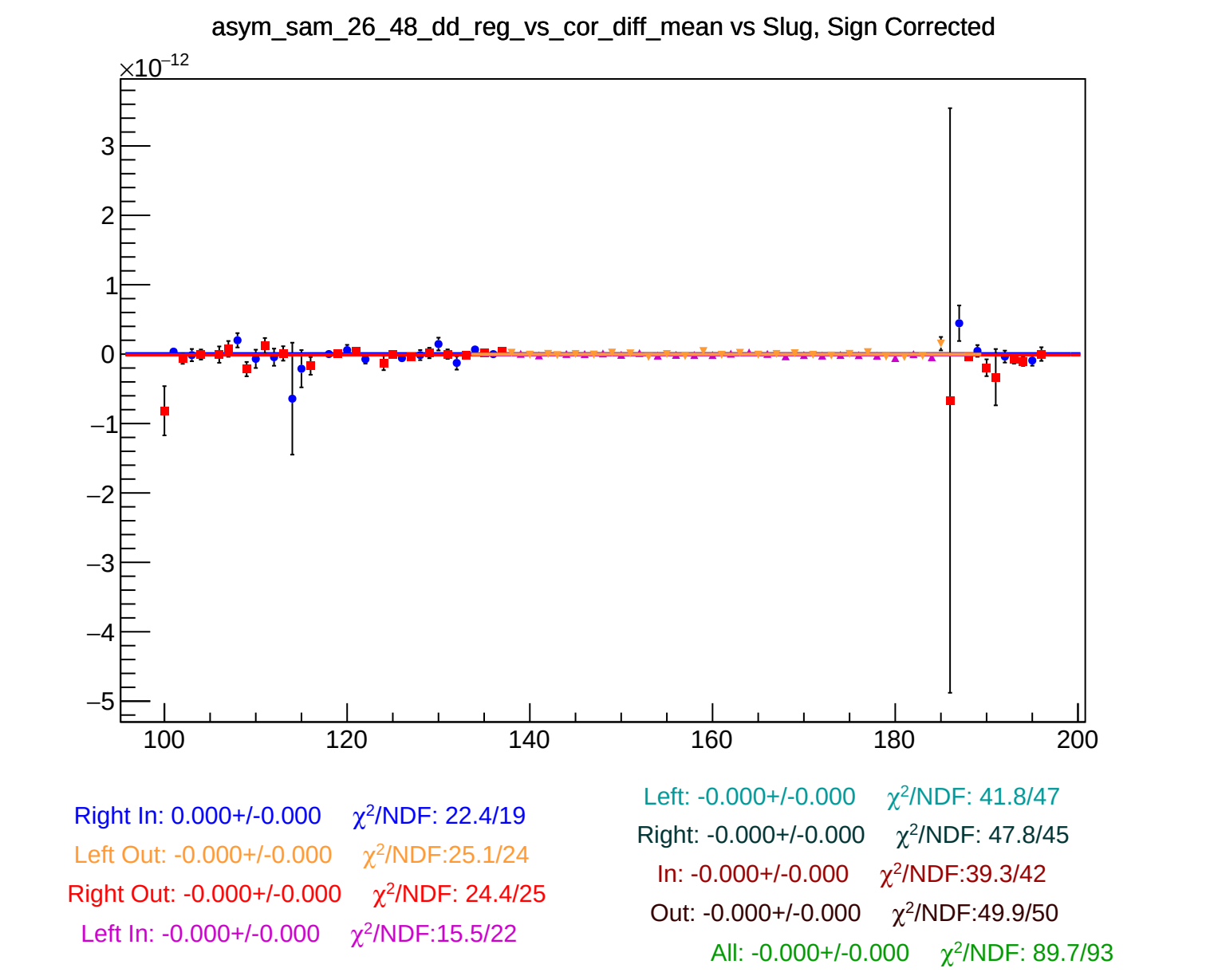
Left: 495.900+/-0.058 $\chi^2$/NDF: 1427062.5/47

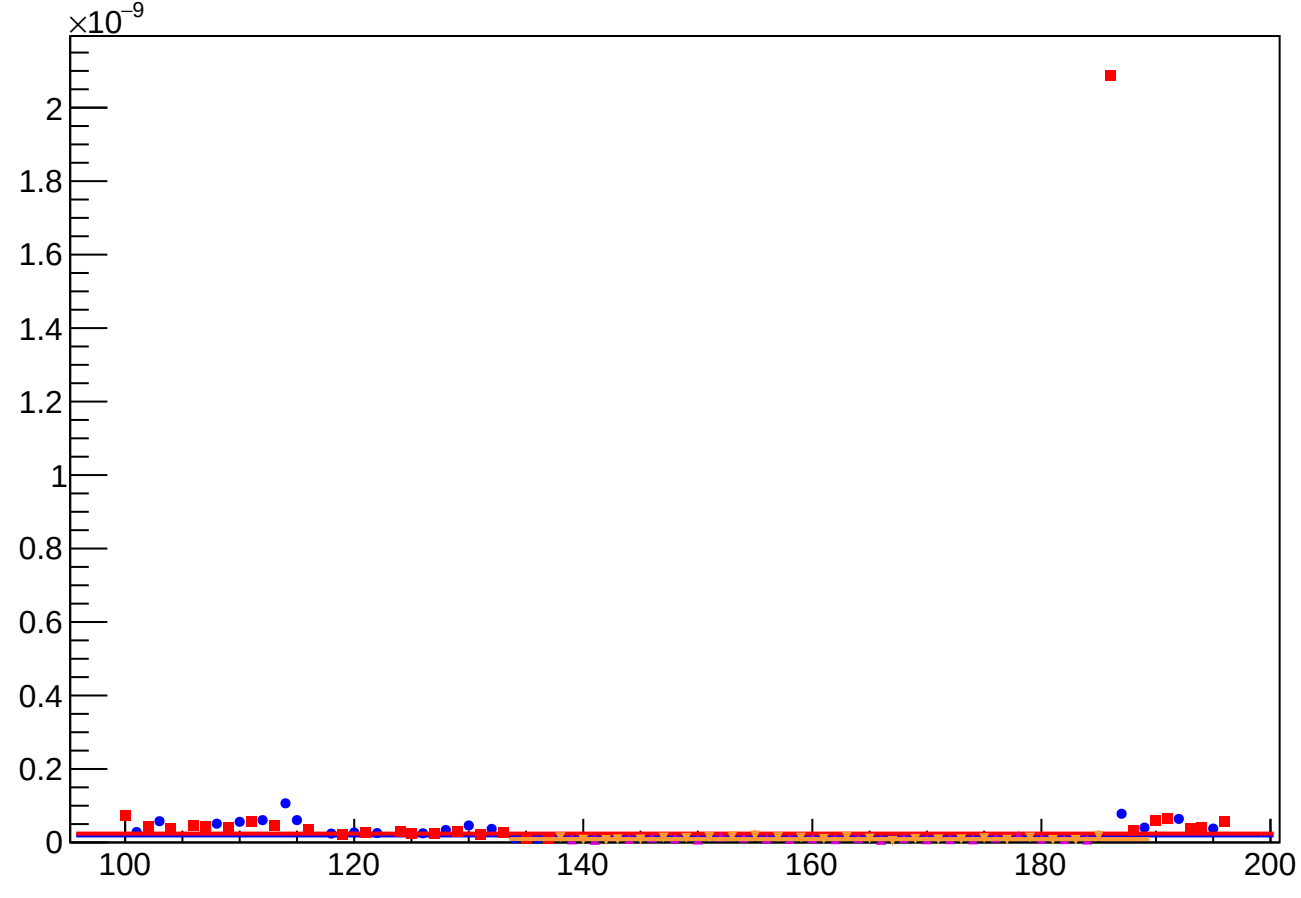
Right: 659.381+/-0.104 $\chi^2$/NDF: 3224767.2/45

In: 534.176+/-0.073 $\chi^2$/NDF:2720266.8/42

Out: 534.516+/-0.070 $\chi^2$/NDF:3807806.5/50

All: 534.354+/-0.051 $\chi^2$/NDF: 6528084.6/93


asym_sam_26_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
3
2
1
0
−1
−2
−3
−4
−5
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 22.4/19
Left Out: -0.000+/-0.000 χ²/NDF:25.1/24
Right Out: -0.000+/-0.000 χ²/NDF: 24.4/25
Left In: -0.000+/-0.000 χ²/NDF:15.5/22
Left: -0.000+/-0.000 χ²/NDF: 41.8/47
Right: -0.000+/-0.000 χ²/NDF: 47.8/45
In: -0.000+/-0.000 χ²/NDF:39.3/42
Out: -0.000+/-0.000 χ²/NDF:49.9/50
All: -0.000+/-0.000 χ²/NDF: 89.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3318435.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1832944.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 2914924.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:622904.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 2476959.3/47

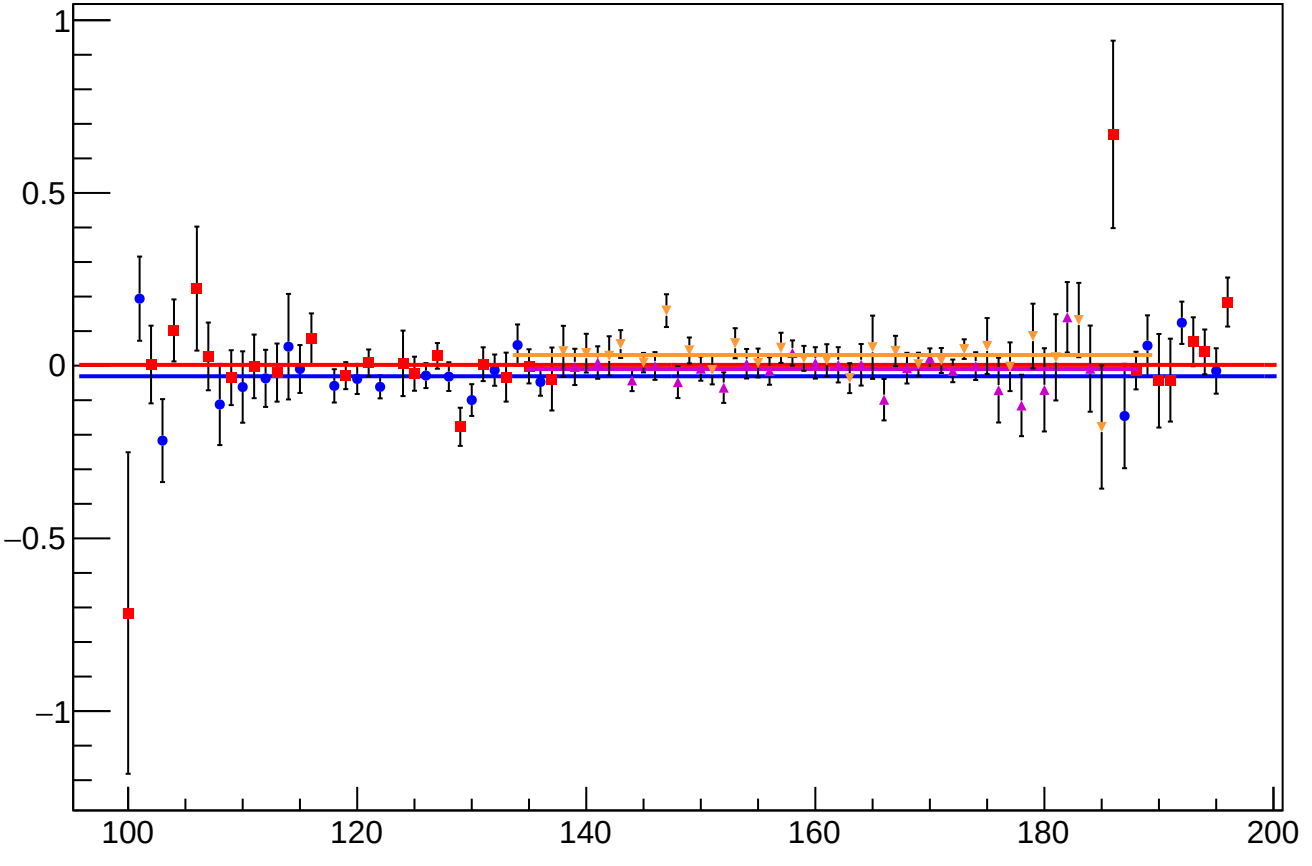
Right: 0.000+/-0.000 $\chi^2$/NDF: 6416523.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:5184929.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7423063.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 12618355.6/93

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.031+/-0.012 $\chi^2$/NDF: 20.9/19

Left Out: 0.031+/-0.009 $\chi^2$/NDF:17.8/24

Right Out: 0.002+/-0.013 $\chi^2$/NDF: 33.1/25

Left In: -0.010+/-0.009 $\chi^2$/NDF:13.2/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 40.7/47

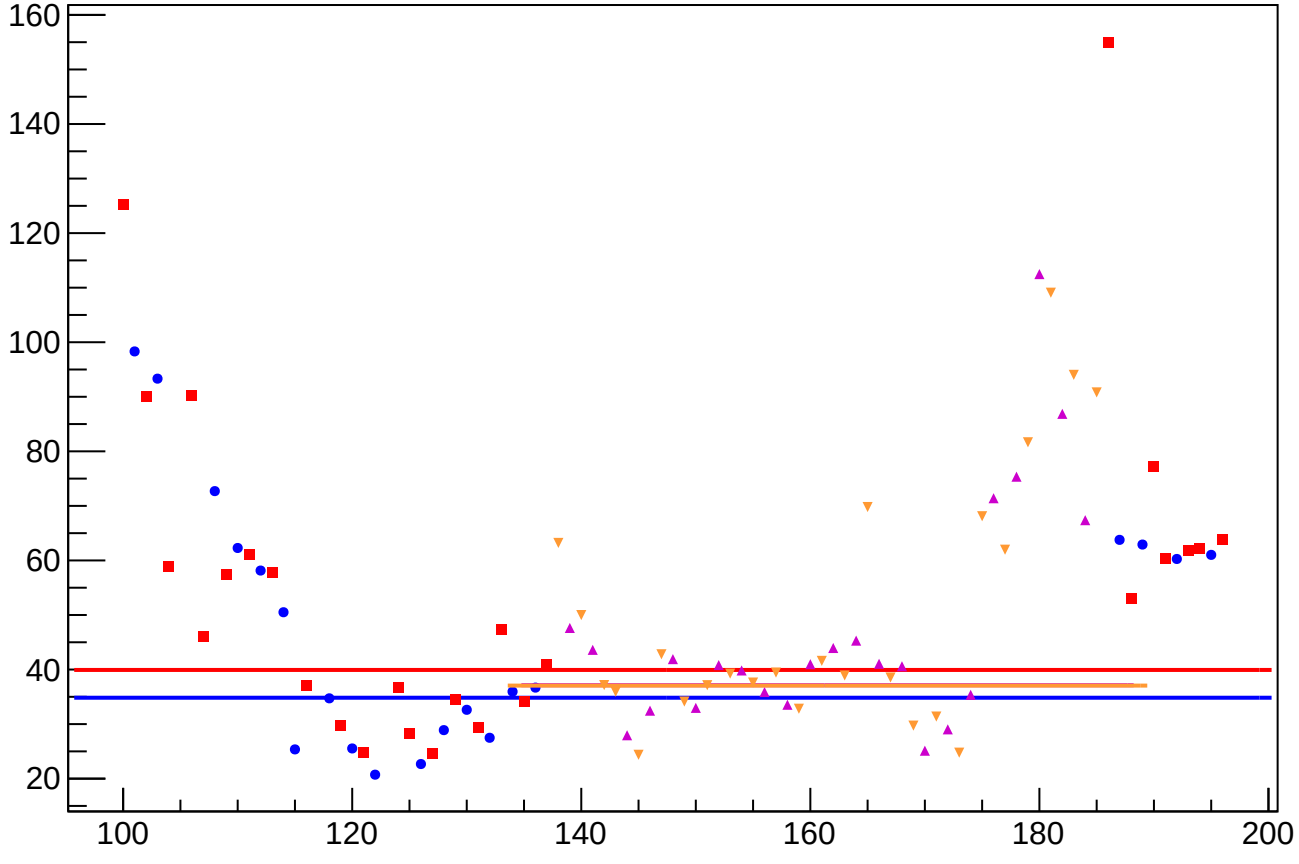
Right: -0.015+/-0.009 $\chi^2$/NDF: 57.4/45

In: -0.017+/-0.007 $\chi^2$/NDF:36.0/42

Out: 0.021+/-0.007 $\chi^2$/NDF:54.3/50

All: 0.002+/-0.005 $\chi^2$/NDF: 103.6/93

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.834+/-0.009 $\chi^2$/NDF: 3303196.3/19

Left Out: 37.057+/-0.006 $\chi^2$/NDF:4053719.8/24

Right Out: 39.926+/-0.009 $\chi^2$/NDF: 3411665.2/25

Left In: 37.127+/-0.007 $\chi^2$/NDF:3012795.5/22

Left: 37.091+/-0.005 $\chi^2$/NDF: 7066571.4/47

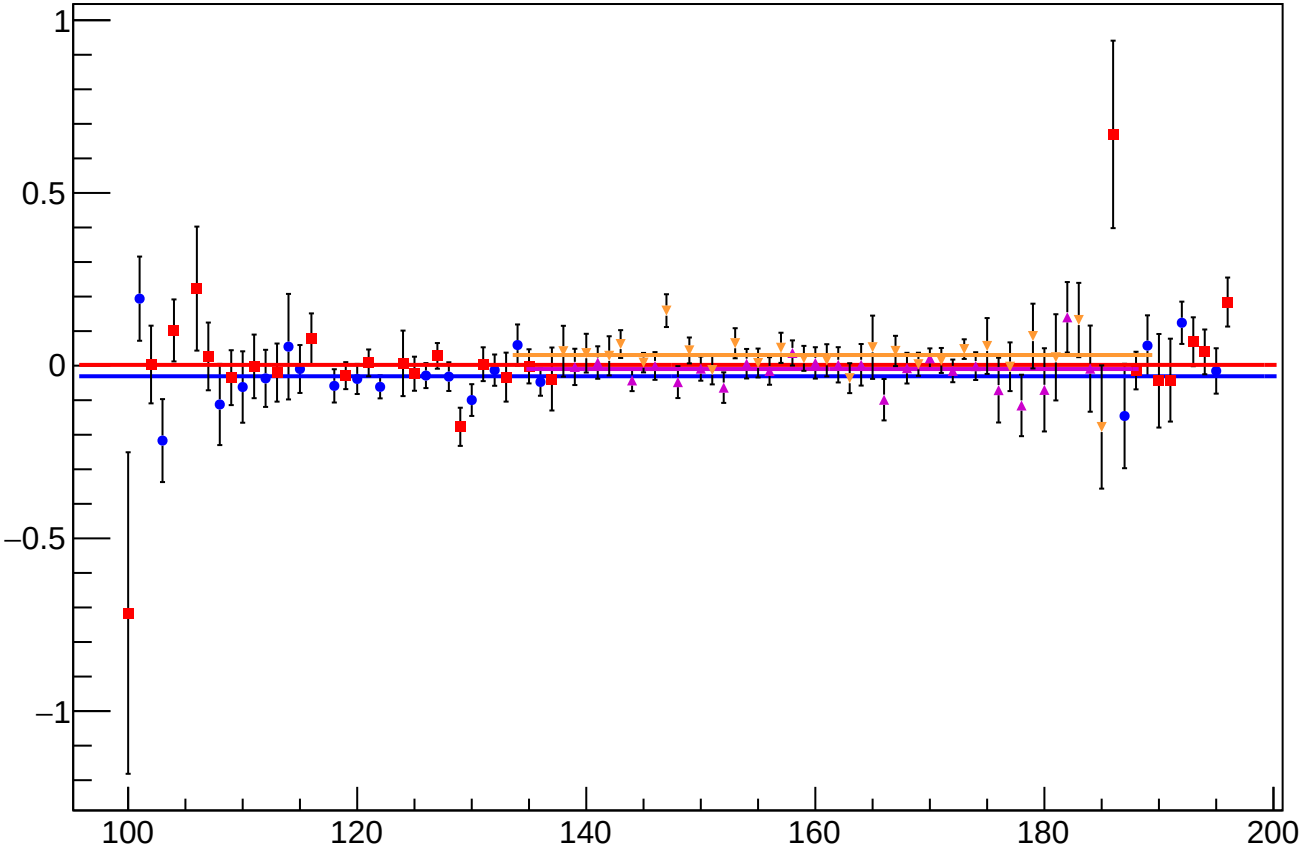
Right: 37.309+/-0.006 $\chi^2$/NDF: 6877266.3/45

In: 36.298+/-0.005 $\chi^2$/NDF:6359230.6/42

Out: 38.023+/-0.005 $\chi^2$/NDF:7531909.4/50

All: 37.167+/-0.004 $\chi^2$/NDF: 13944612.2/93

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.031+/-0.012 $\chi^2$/NDF: 20.9/19

Left Out: 0.031+/-0.009 $\chi^2$/NDF:17.8/24

Right Out: 0.002+/-0.013 $\chi^2$/NDF: 33.1/25

Left In: -0.010+/-0.009 $\chi^2$/NDF:13.2/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 40.7/47

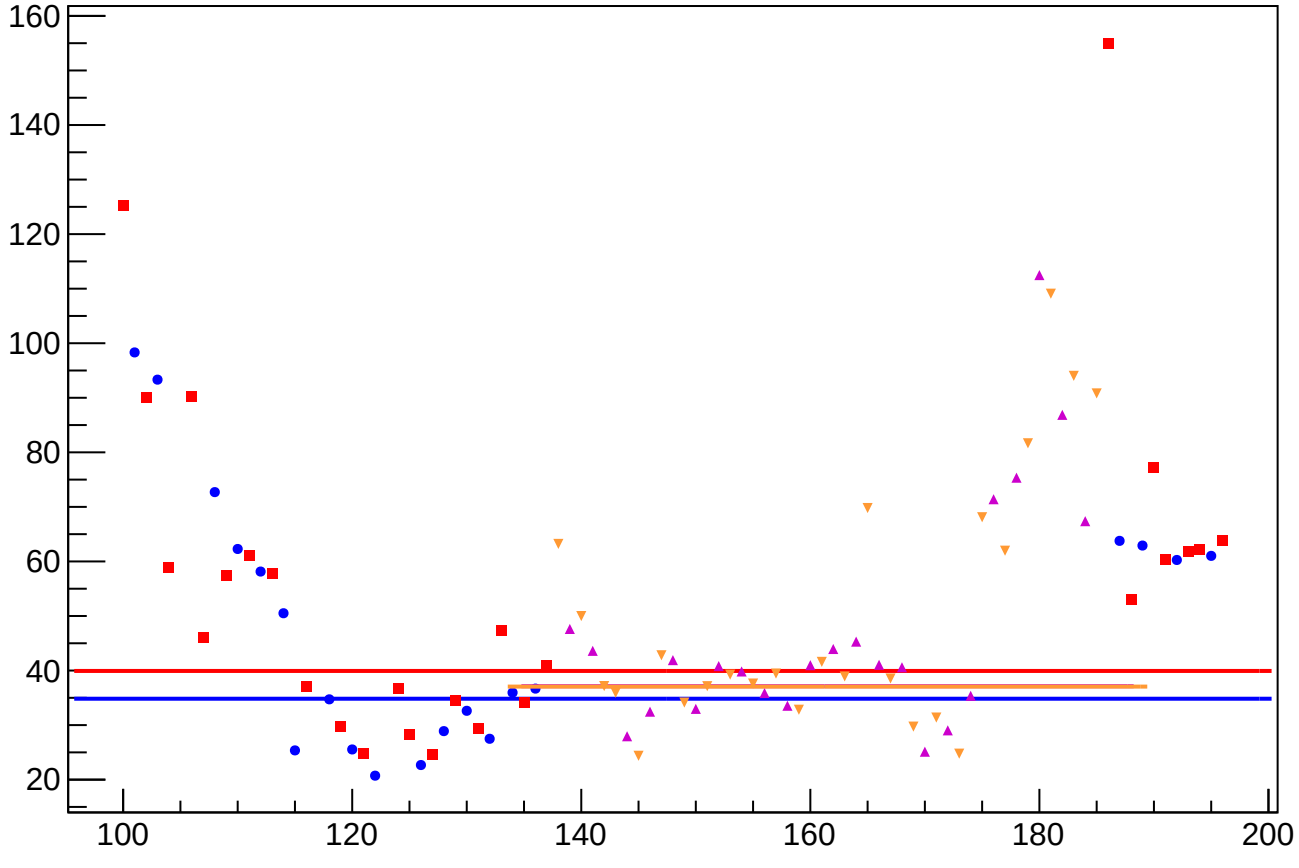
Right: -0.015+/-0.009 $\chi^2$/NDF: 57.4/45

In: -0.017+/-0.007 $\chi^2$/NDF:36.0/42

Out: 0.021+/-0.007 $\chi^2$/NDF:54.3/50

All: 0.002+/-0.005 $\chi^2$/NDF: 103.6/93

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.834+/-0.009 $\chi^2$/NDF: 3303196.3/19

Left Out: 37.057+/-0.006 $\chi^2$/NDF:4053719.8/24

Right Out: 39.926+/-0.009 $\chi^2$/NDF: 3411665.2/25

Left In: 37.127+/-0.007 $\chi^2$/NDF:3012795.5/22

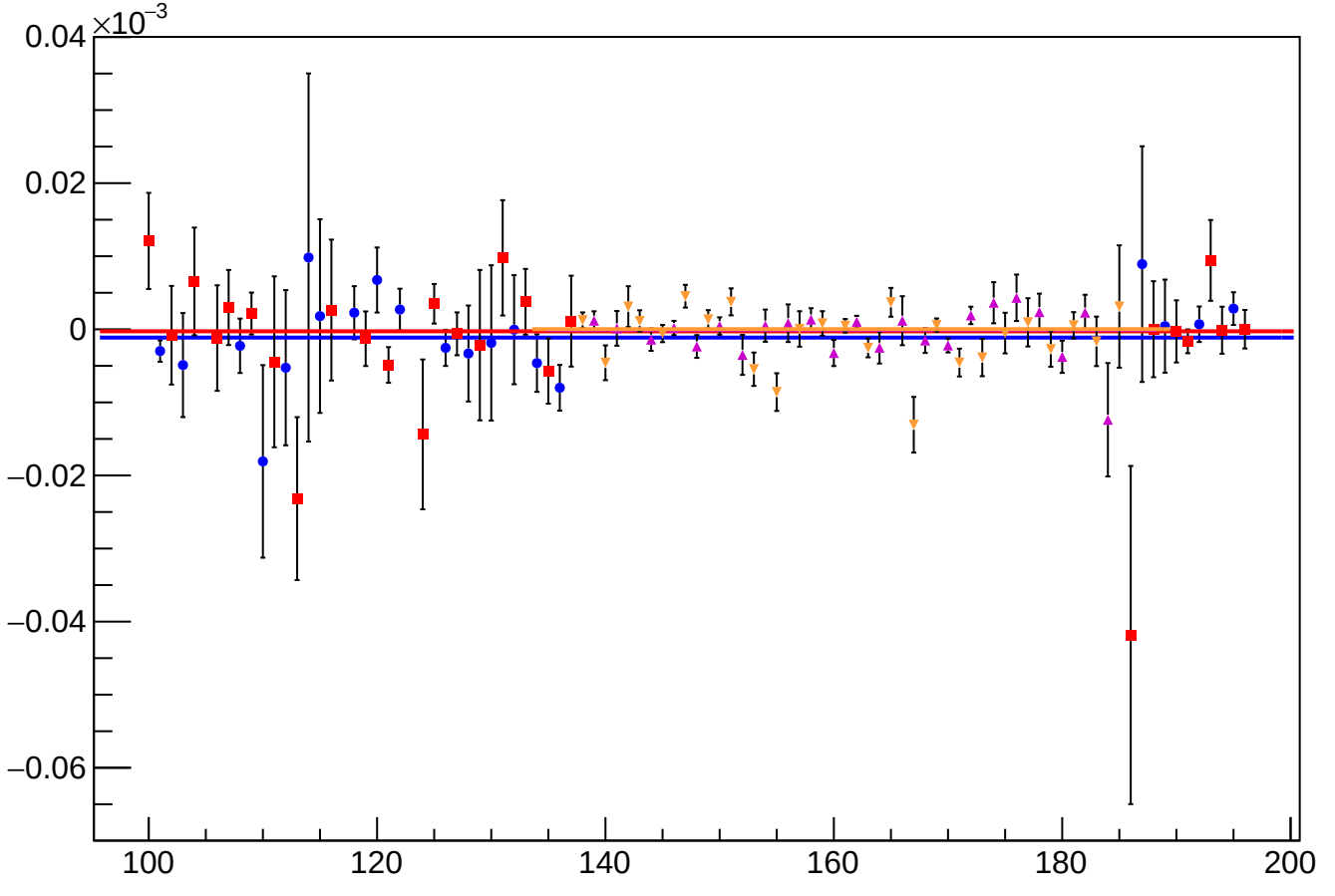
Left: 37.091+/-0.005 $\chi^2$/NDF: 7066571.4/47

Right: 37.309+/-0.006 $\chi^2$/NDF: 6877266.3/45

In: 36.298+/-0.005 $\chi^2$/NDF:6359230.6/42

Out: 38.023+/-0.005 $\chi^2$/NDF:7531909.4/50

All: 37.167+/-0.004 $\chi^2$/NDF: 13944612.2/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:67.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.5/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:32.2/22

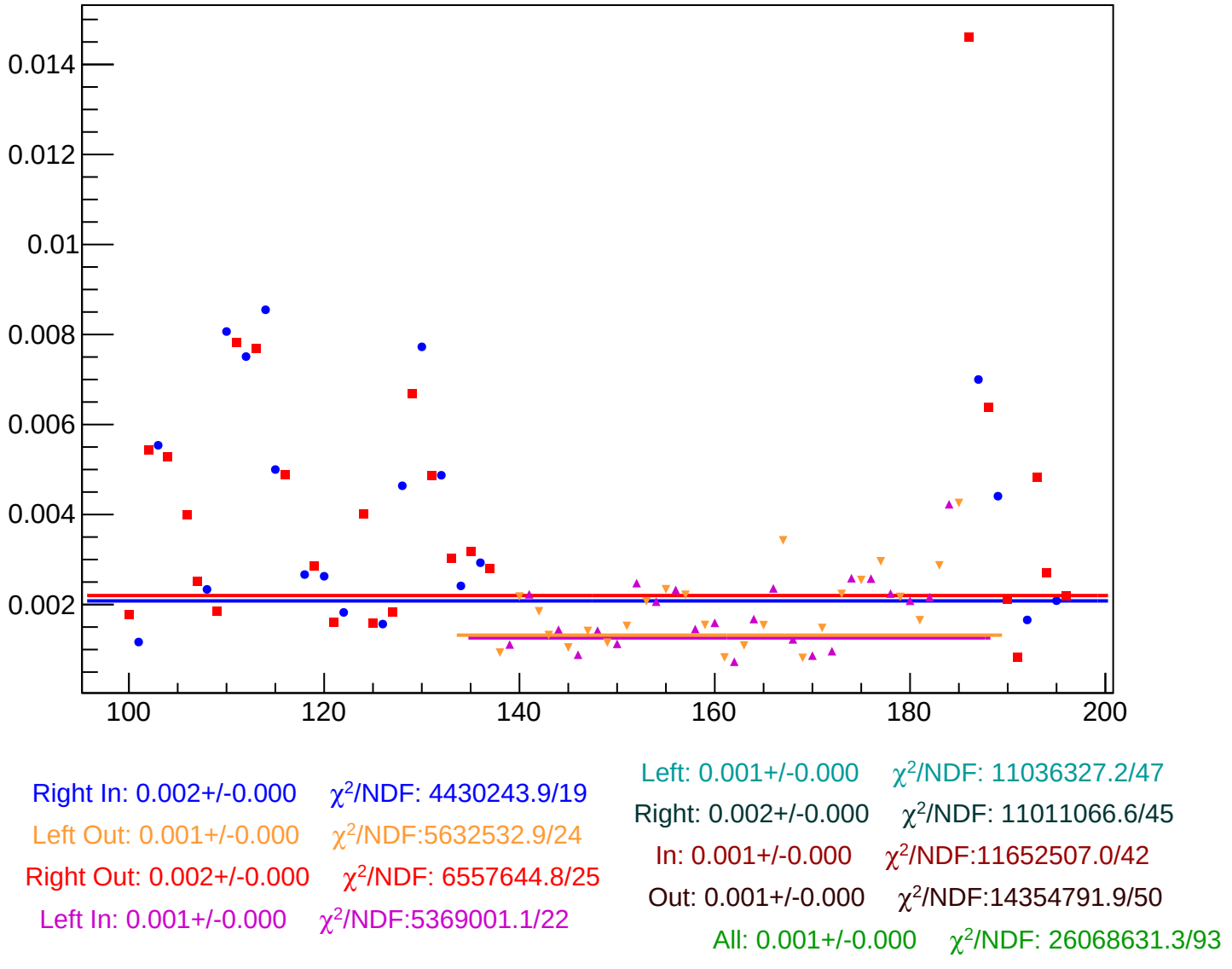
Left: -0.000+/-0.000 $\chi^2$/NDF: 99.9/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 49.1/45

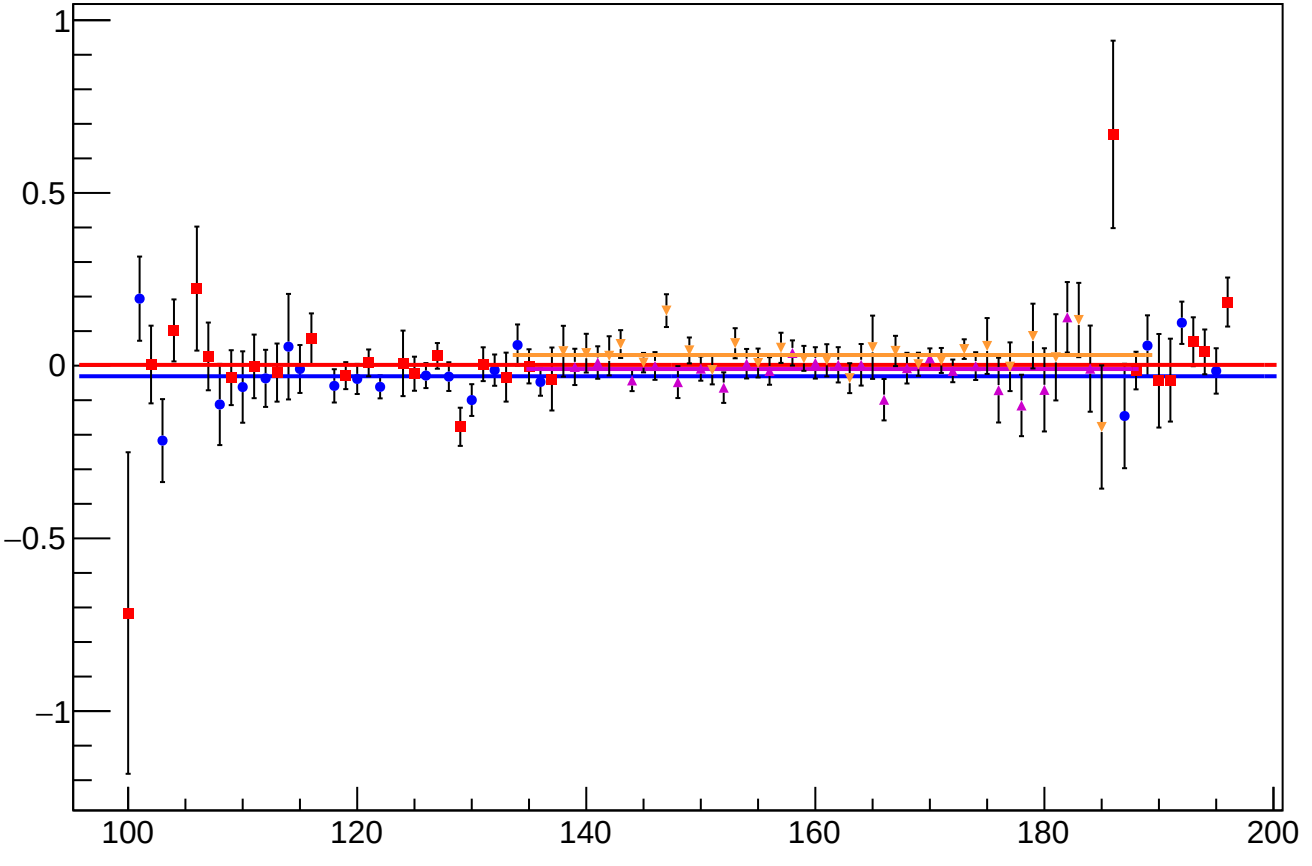
In: -0.000+/-0.000 $\chi^2$/NDF:53.7/42

Out: -0.000+/-0.000 $\chi^2$/NDF:96.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 150.2/93


asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.014
0.012
0.01
0.008
0.006
0.004
0.002
100
120
140
160
180
200
Right In: 0.002+/-0.000 χ²/NDF: 4430243.9/19
Left Out: 0.001+/-0.000 χ²/NDF:5632532.9/24
Right Out: 0.002+/-0.000 χ²/NDF: 6557644.8/25
Left In: 0.001+/-0.000 χ²/NDF:5369001.1/22
Left: 0.001+/-0.000 χ²/NDF: 11036327.2/47
Right: 0.002+/-0.000 χ²/NDF: 11011066.6/45
In: 0.001+/-0.000 χ²/NDF:11652507.0/42
Out: 0.001+/-0.000 χ²/NDF:14354791.9/50
All: 0.001+/-0.000 χ²/NDF: 26068631.3/93

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.031+/-0.012 $\chi^2$/NDF: 20.9/19

Left Out: 0.031+/-0.009 $\chi^2$/NDF:17.8/24

Right Out: 0.002+/-0.013 $\chi^2$/NDF: 33.1/25

Left In: -0.010+/-0.009 $\chi^2$/NDF:13.2/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 40.7/47

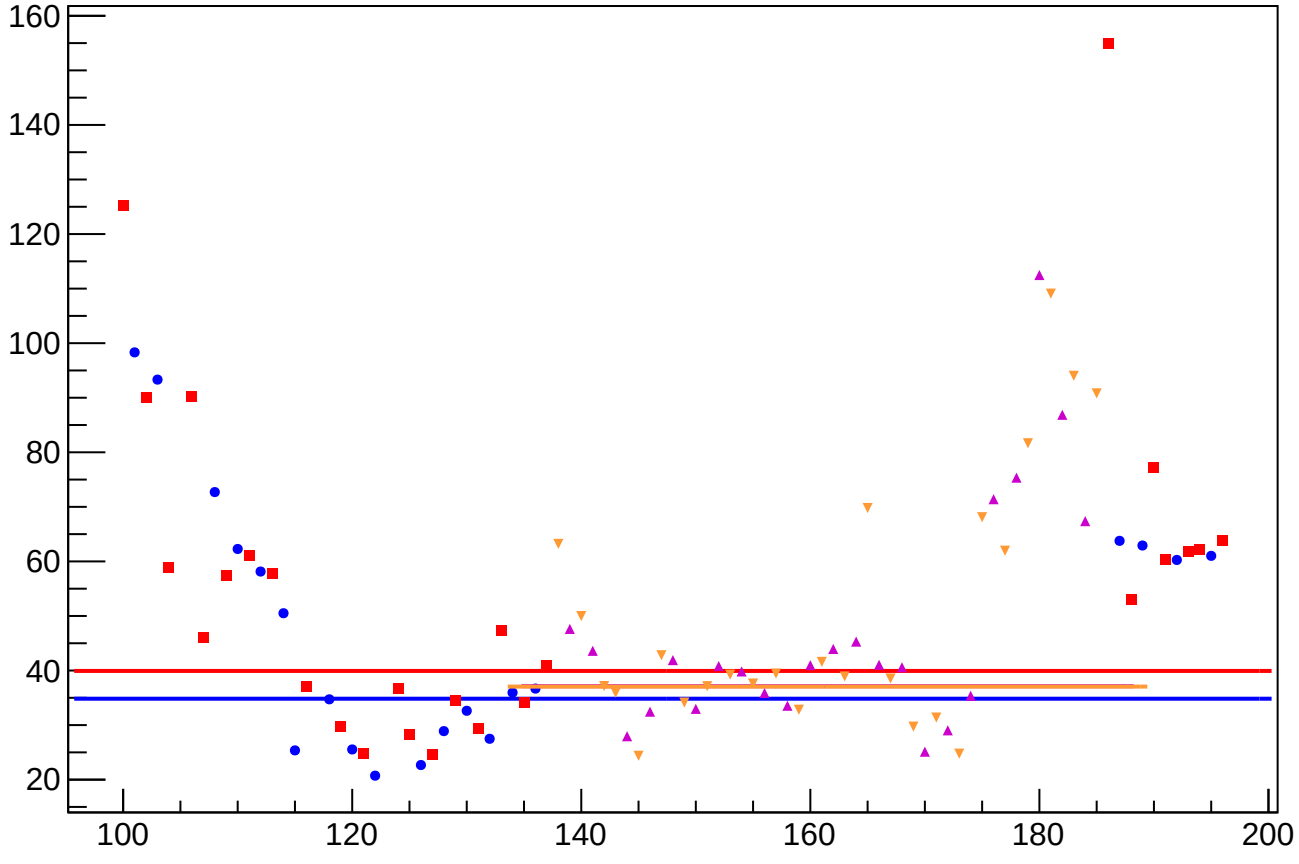
Right: -0.015+/-0.009 $\chi^2$/NDF: 57.4/45

In: -0.017+/-0.007 $\chi^2$/NDF:36.0/42

Out: 0.021+/-0.007 $\chi^2$/NDF:54.3/50

All: 0.002+/-0.005 $\chi^2$/NDF: 103.6/93

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.835+/-0.009 $\chi^2$/NDF: 3303154.2/19

Left Out: 37.057+/-0.006 $\chi^2$/NDF:4053728.9/24

Right Out: 39.926+/-0.009 $\chi^2$/NDF: 3411493.0/25

Left In: 37.127+/-0.007 $\chi^2$/NDF:3012767.1/22

Left: 37.091+/-0.005 $\chi^2$/NDF: 7066552.1/47

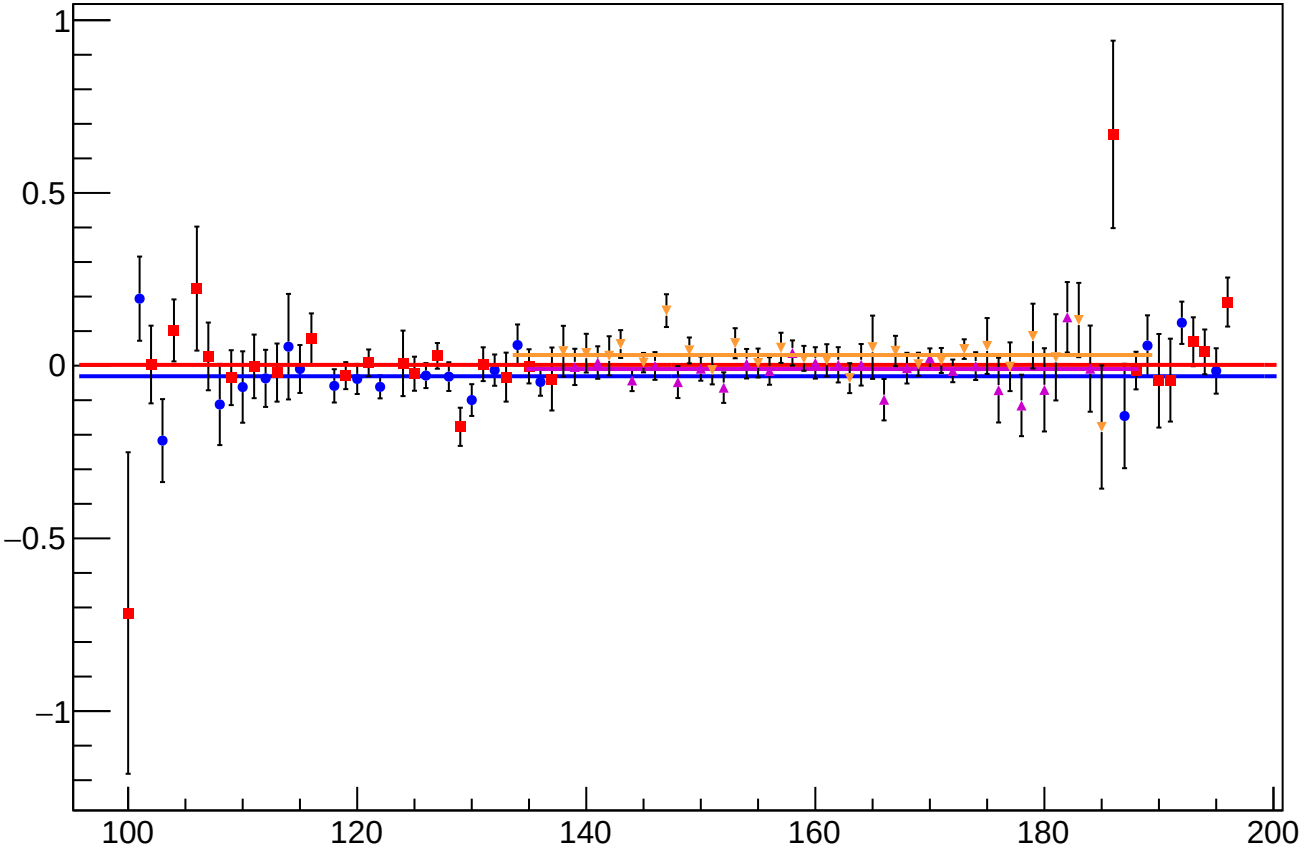
Right: 37.309+/-0.006 $\chi^2$/NDF: 6877055.3/45

In: 36.298+/-0.005 $\chi^2$/NDF:6359143.7/42

Out: 38.023+/-0.005 $\chi^2$/NDF:7531768.7/50

All: 37.167+/-0.004 $\chi^2$/NDF: 13944385.1/93

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.031+/-0.012 $\chi^2$/NDF: 20.9/19

Left Out: 0.031+/-0.009 $\chi^2$/NDF:17.8/24

Right Out: 0.002+/-0.013 $\chi^2$/NDF: 33.1/25

Left In: -0.010+/-0.009 $\chi^2$/NDF:13.2/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 40.7/47

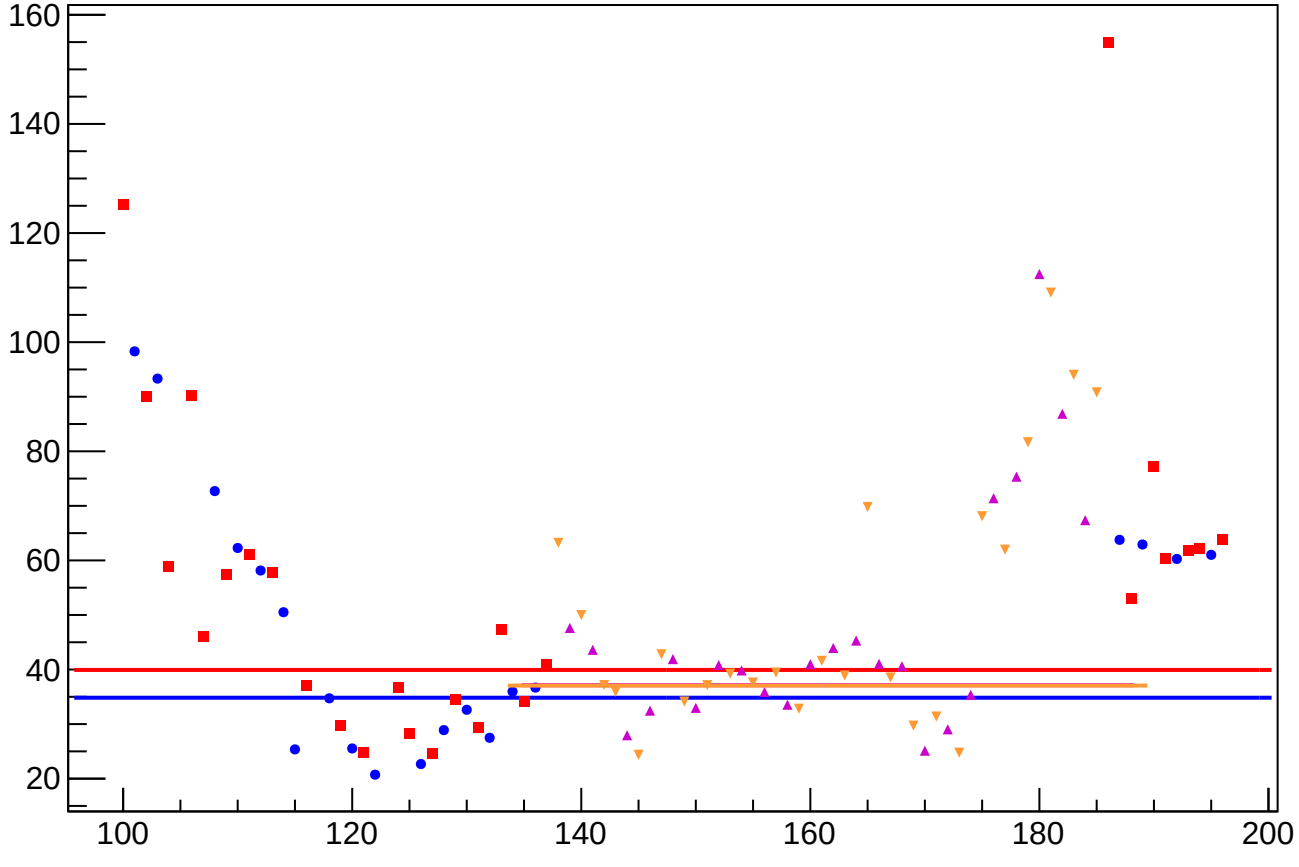
Right: -0.015+/-0.009 $\chi^2$/NDF: 57.4/45

In: -0.017+/-0.007 $\chi^2$/NDF:36.0/42

Out: 0.021+/-0.007 $\chi^2$/NDF:54.3/50

All: 0.002+/-0.005 $\chi^2$/NDF: 103.6/93

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 34.835+/-0.009 $\chi^2$/NDF: 3303154.2/19

Left Out: 37.057+/-0.006 $\chi^2$/NDF:4053728.9/24

Right Out: 39.926+/-0.009 $\chi^2$/NDF: 3411493.0/25

Left In: 37.127+/-0.007 $\chi^2$/NDF:3012767.1/22

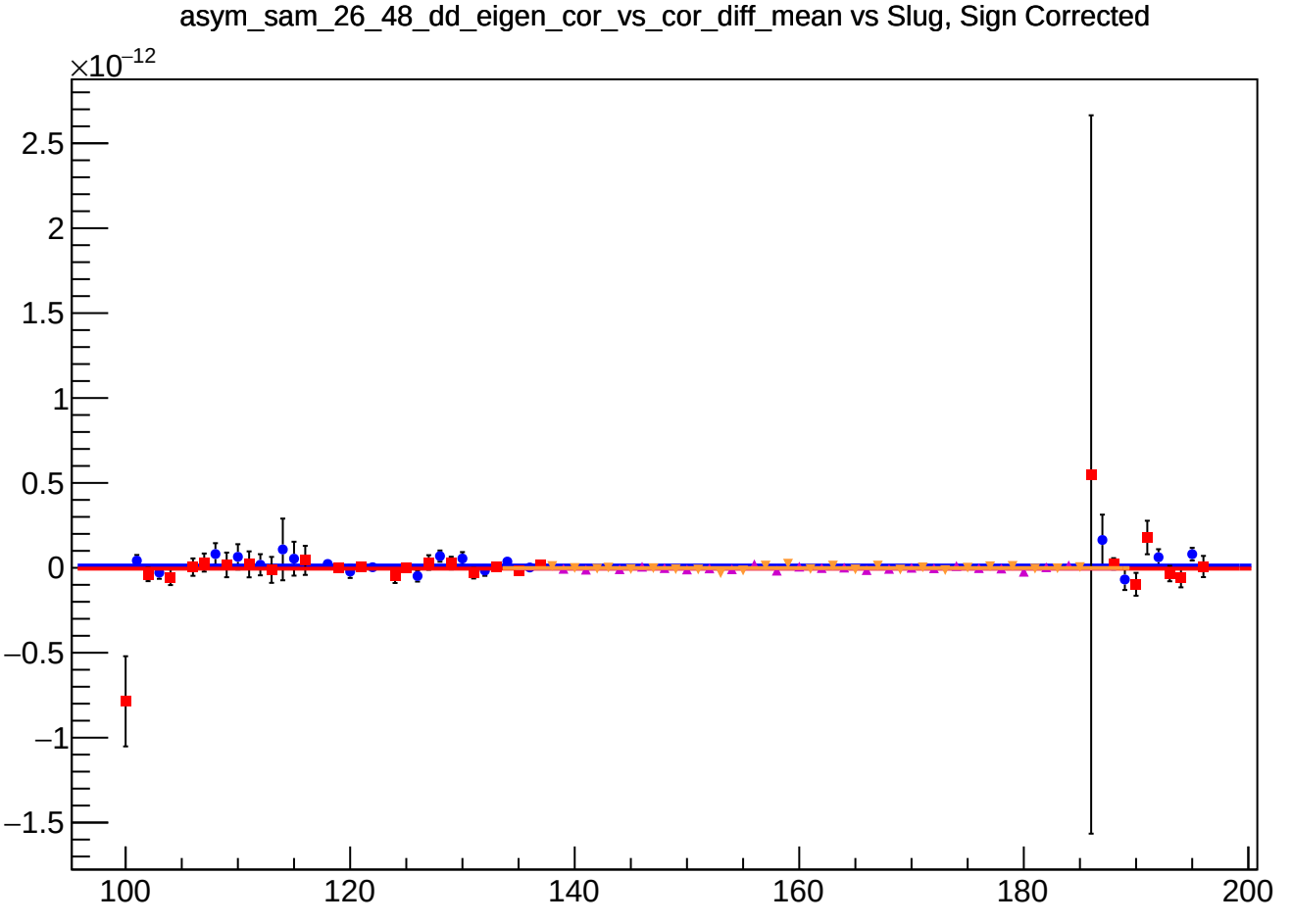
Left: 37.091+/-0.005 $\chi^2$/NDF: 7066552.1/47

Right: 37.309+/-0.006 $\chi^2$/NDF: 6877055.3/45

In: 36.298+/-0.005 $\chi^2$/NDF:6359143.7/42

Out: 38.023+/-0.005 $\chi^2$/NDF:7531768.7/50

All: 37.167+/-0.004 $\chi^2$/NDF: 13944385.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 24.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:26.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.0/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:20.6/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 47.0/47

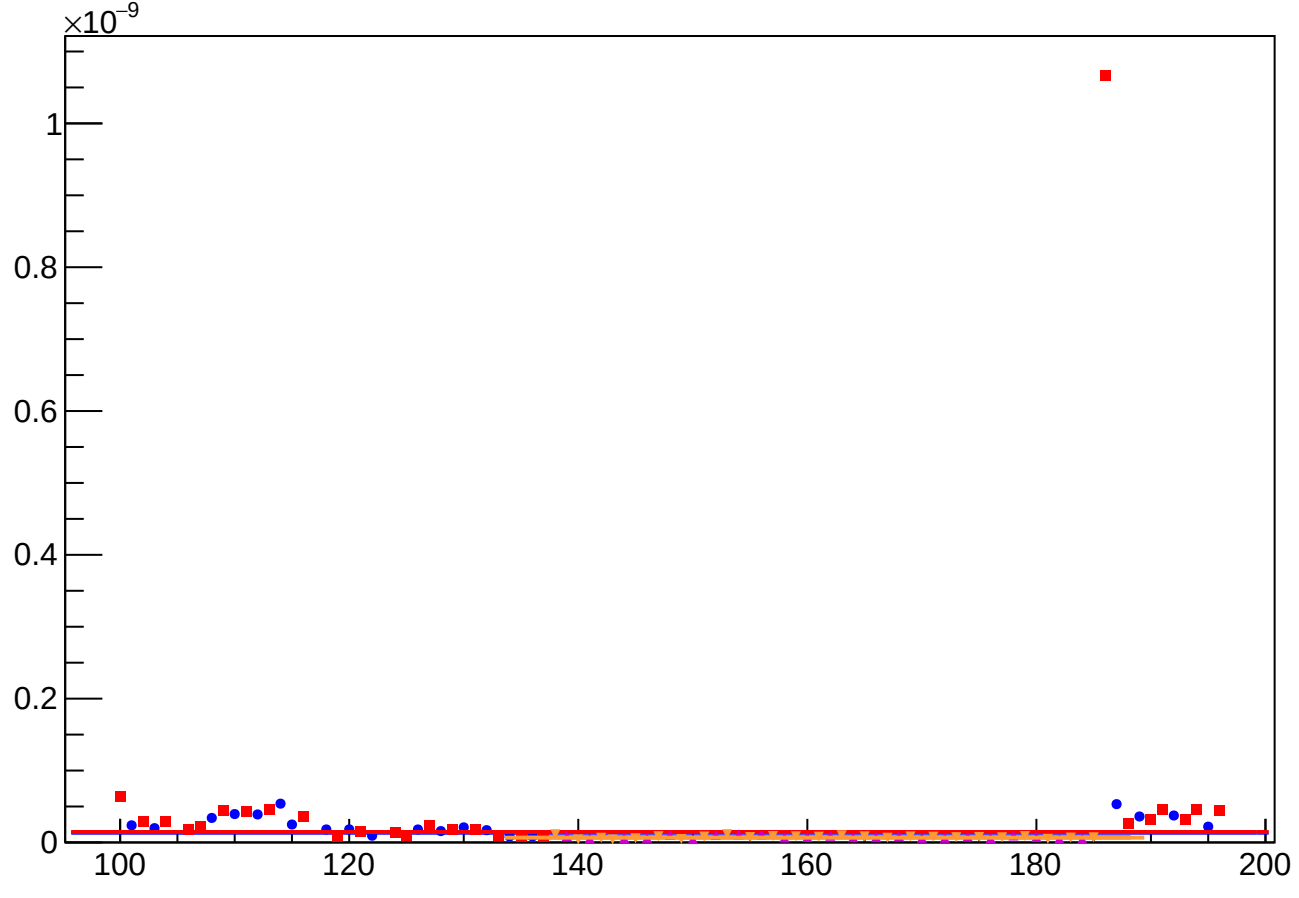
Right: 0.000+/-0.000 $\chi^2$/NDF: 53.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:51.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:51.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 102.3/93

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3233554.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1953818.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5357557.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1431998.0/22

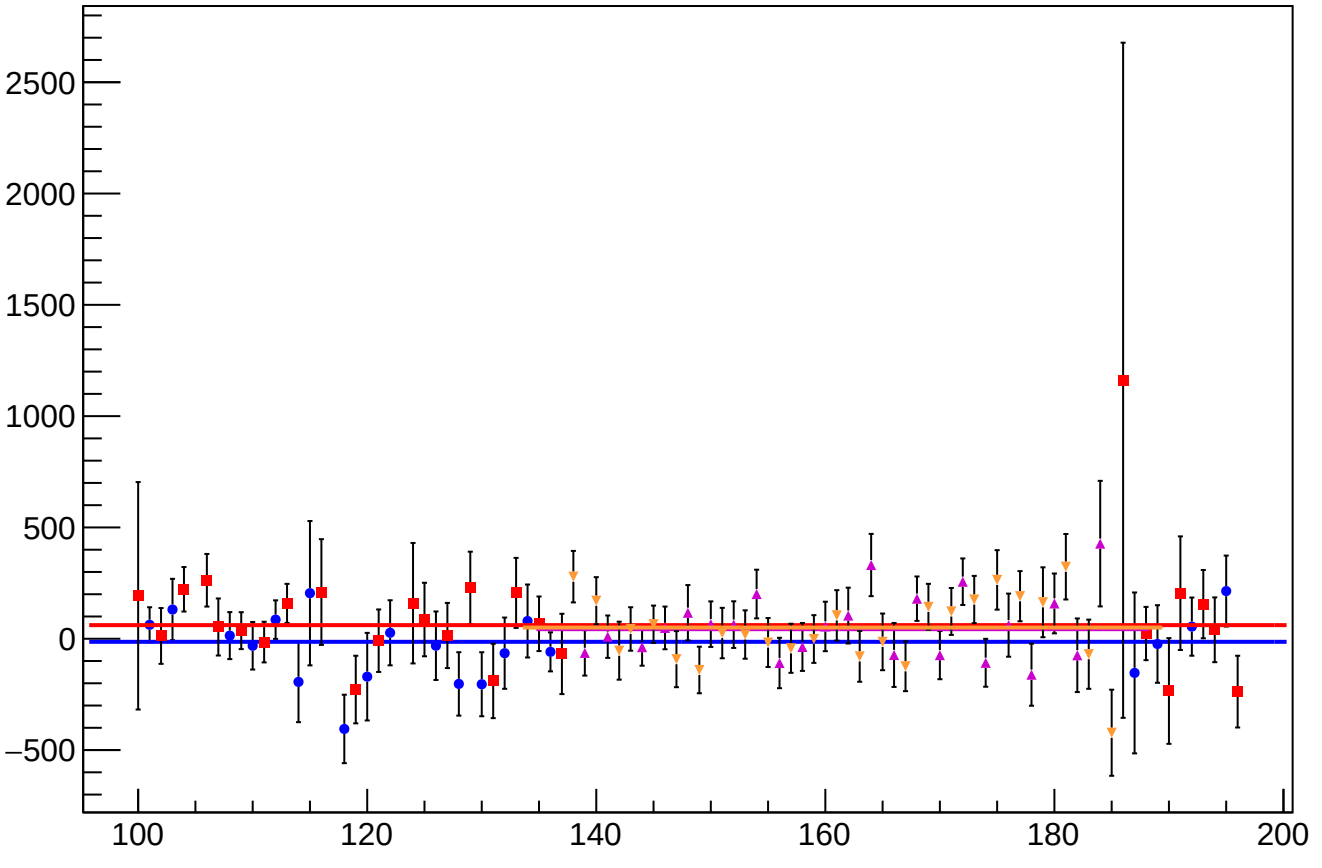
Left: 0.000+/-0.000 $\chi^2$/NDF: 3428981.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8614036.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:6606981.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10127278.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16776240.7/93




Right In: -13.782+/-29.313 $\chi^2$/NDF: 18.8/19

Left Out: 50.314+/-22.958 $\chi^2$/NDF:33.5/24

Right Out: 61.190+/-27.241 $\chi^2$/NDF: 23.3/25

Left In: 43.026+/-23.758 $\chi^2$/NDF:26.6/22

Left: 46.795+/-16.509 $\chi^2$/NDF: 60.1/47

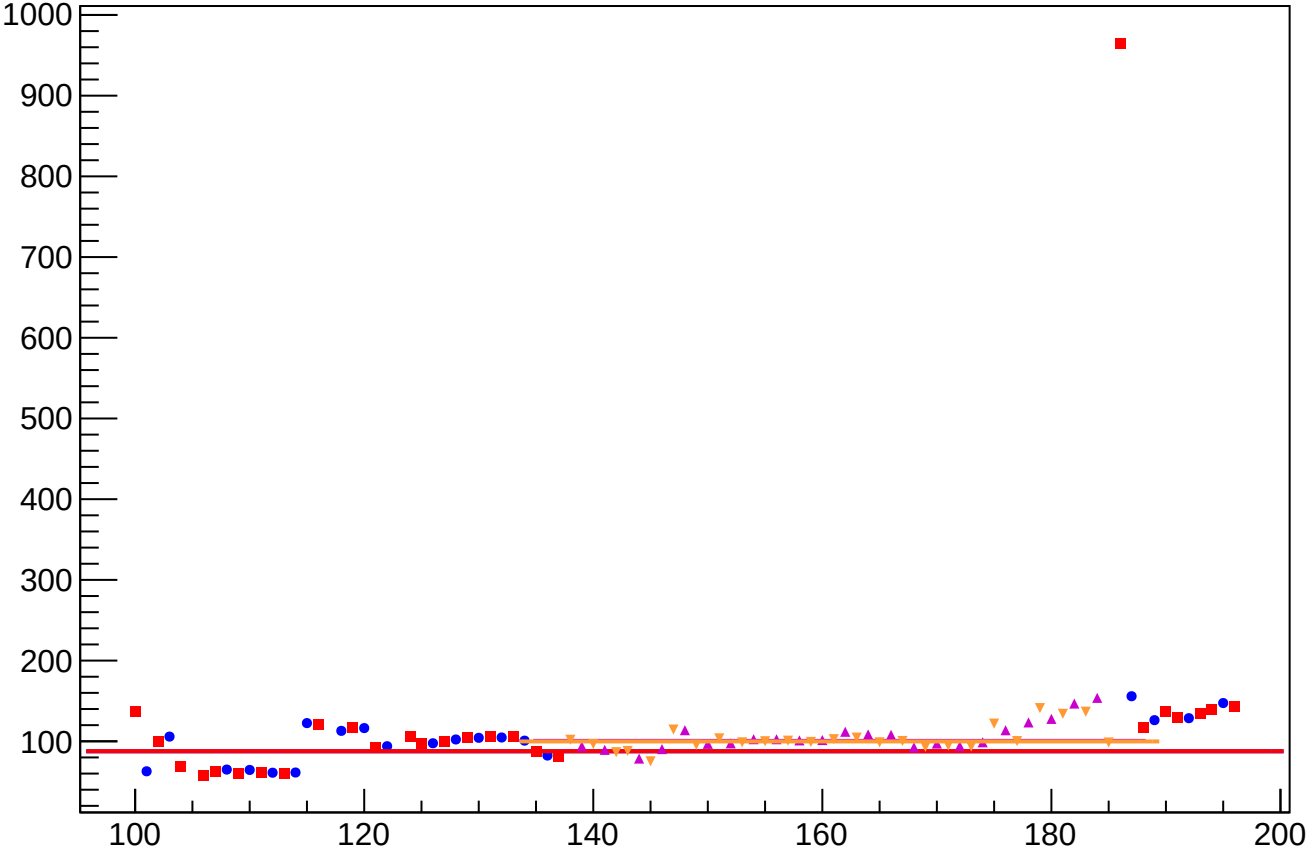
Right: 26.447+/-19.954 $\chi^2$/NDF: 45.6/45

In: 20.503+/-18.457 $\chi^2$/NDF:47.7/42

Out: 54.830+/-17.555 $\chi^2$/NDF:56.8/50

All: 38.526+/-12.720 $\chi^2$/NDF: 106.3/93

# reg_asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 87.599+/-0.021 $\chi^2$/NDF: 1519724.7/19

Left Out: 99.839+/-0.016 $\chi^2$/NDF:697768.7/24

Right Out: 87.691+/-0.019 $\chi^2$/NDF: 2731442.3/25

Left In: 100.498+/-0.017 $\chi^2$/NDF:656850.1/22

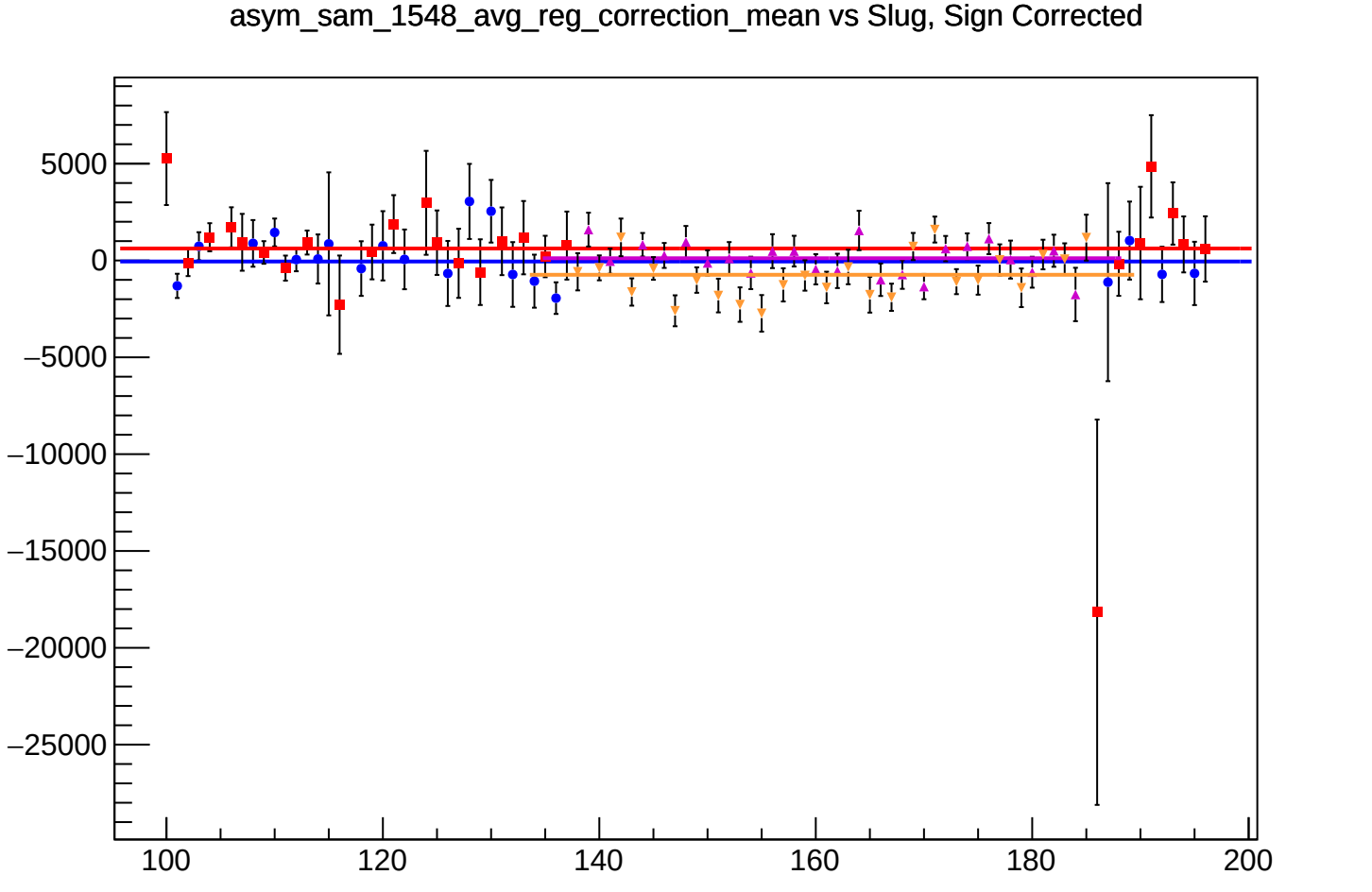
Left: 100.157+/-0.012 $\chi^2$/NDF: 1355414.7/47

Right: 87.648+/-0.014 $\chi^2$/NDF: 4251177.6/45

In: 95.384+/-0.013 $\chi^2$/NDF:2410305.5/42

Out: 94.794+/-0.012 $\chi^2$/NDF:3661762.9/50

All: 95.074+/-0.009 $\chi^2$/NDF: 6073140.9/93




Right In: -52.298+/-247.765 $\chi^2$/NDF: 22.6/19

Left Out: -738.364+/-156.311 $\chi^2$/NDF:49.7/24

Right Out: 619.153+/-226.832 $\chi^2$/NDF: 21.0/25

Left In: 115.639+/-160.990 $\chi^2$/NDF:23.7/22

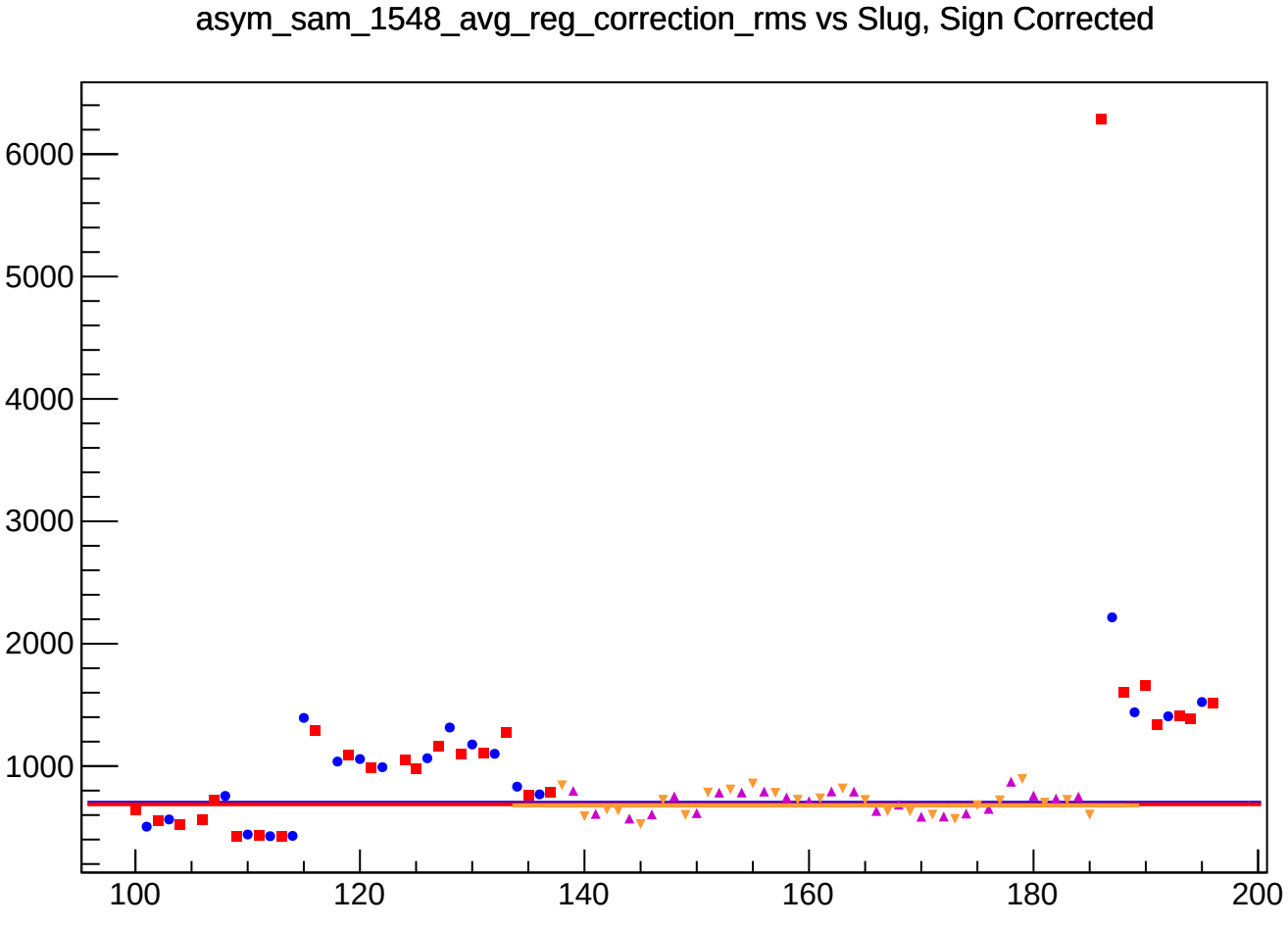
Left: -323.953+/-112.146 $\chi^2$/NDF: 87.9/47

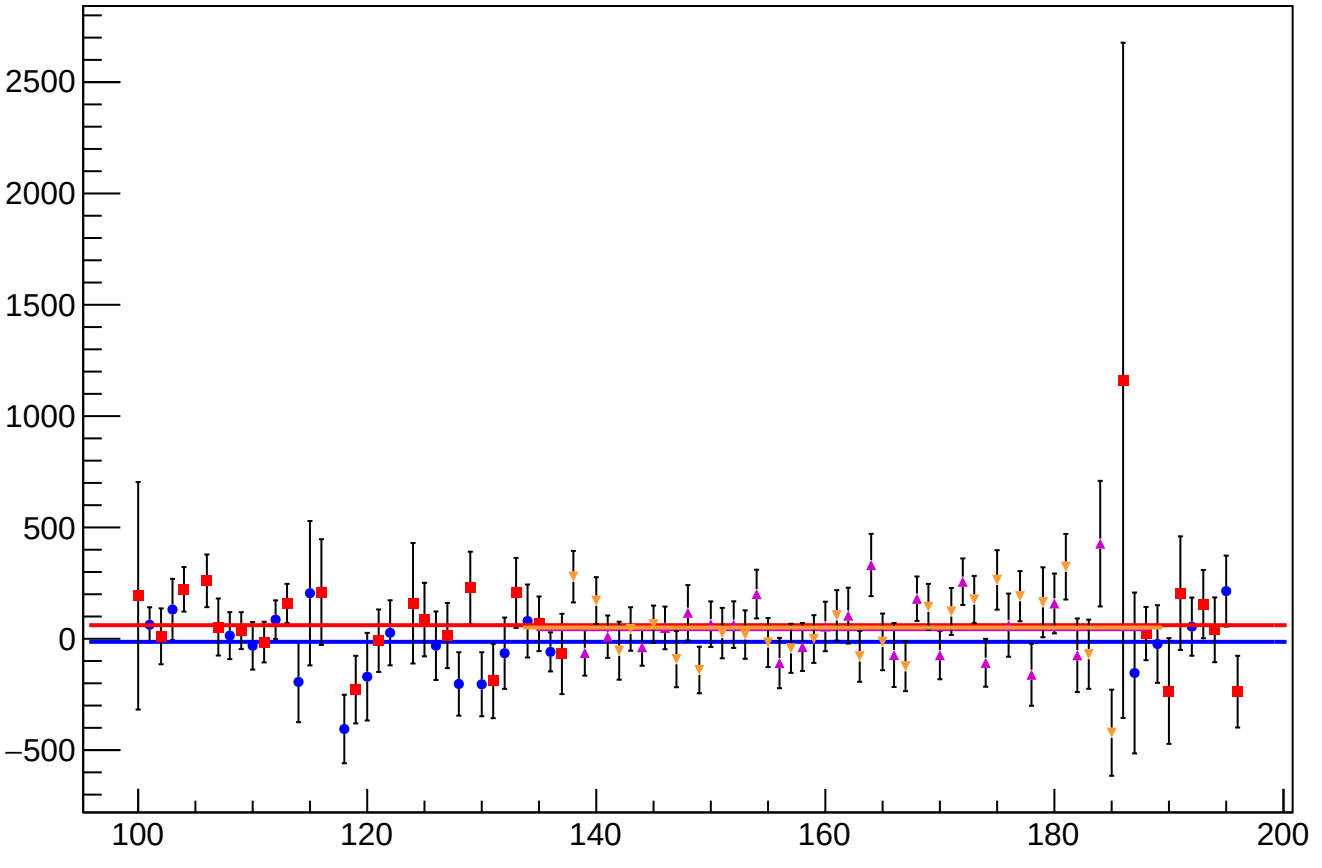
Right: 312.986+/-167.306 $\chi^2$/NDF: 47.6/45

In: 65.785+/-134.995 $\chi^2$/NDF:46.6/42

Out: -301.281+/-128.710 $\chi^2$/NDF:95.0/50

All: -126.492+/-93.155 $\chi^2$/NDF: 145.5/93


asym_sam_1548_avg_reg_correction_rms vs Slug, Sign Corrected
6000
5000
4000
3000
2000
1000
100
120
140
160
180
200
Right In: 700.584+/-0.175 χ²/NDF: 3421856.2/19
Left Out: 679.146+/-0.111 χ²/NDF:737419.7/24
Right Out: 688.115+/-0.160 χ²/NDF: 5265546.7/25
Left In: 681.893+/-0.114 χ²/NDF:573812.4/22
Left: 680.479+/-0.079 χ²/NDF: 1311531.8/47
Right: 693.801+/-0.118 χ²/NDF: 8690158.7/45
In: 687.442+/-0.095 χ²/NDF:4003671.6/42
Out: 682.034+/-0.091 χ²/NDF:6005086.2/50
All: 684.609+/-0.066 χ²/NDF: 10010439.1/93




Right In: -13.783+/-29.313 $\chi^2$/NDF: 18.8/19

Left Out: 50.322+/-22.958 $\chi^2$/NDF:33.4/24

Right Out: 60.969+/-27.242 $\chi^2$/NDF: 23.2/25

Left In: 43.026+/-23.758 $\chi^2$/NDF:26.6/22

Left: 46.799+/-16.509 $\chi^2$/NDF: 60.1/47

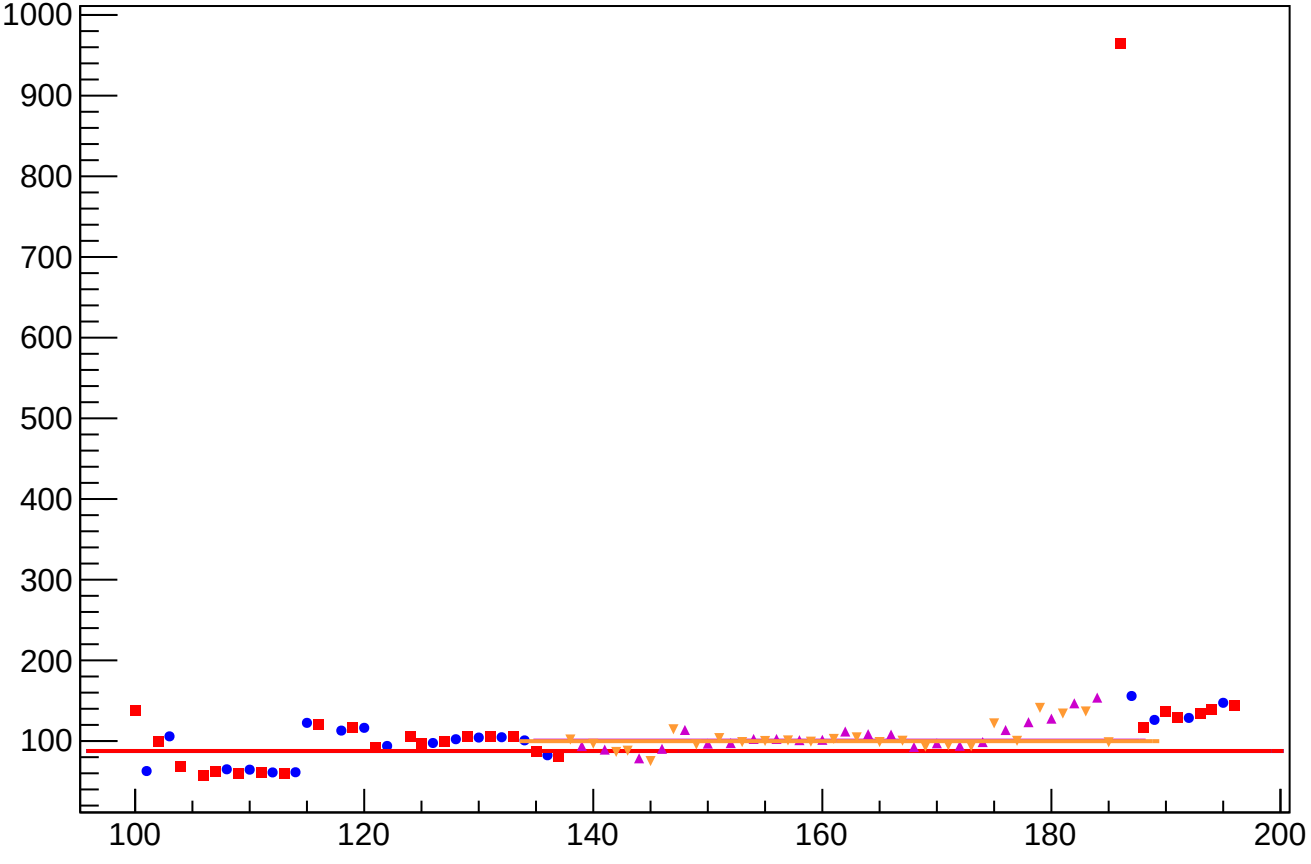
Right: 26.326+/-19.955 $\chi^2$/NDF: 45.5/45

In: 20.503+/-18.457 $\chi^2$/NDF:47.7/42

Out: 54.743+/-17.555 $\chi^2$/NDF:56.8/50

All: 38.480+/-12.720 $\chi^2$/NDF: 106.3/93

# cor_asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 87.599+/-0.021 $\chi^2$/NDF: 1519726.6/19

Left Out: 99.839+/-0.016 $\chi^2$/NDF:697768.8/24

Right Out: 87.677+/-0.019 $\chi^2$/NDF: 2734338.4/25

Left In: 100.498+/-0.017 $\chi^2$/NDF:656850.1/22

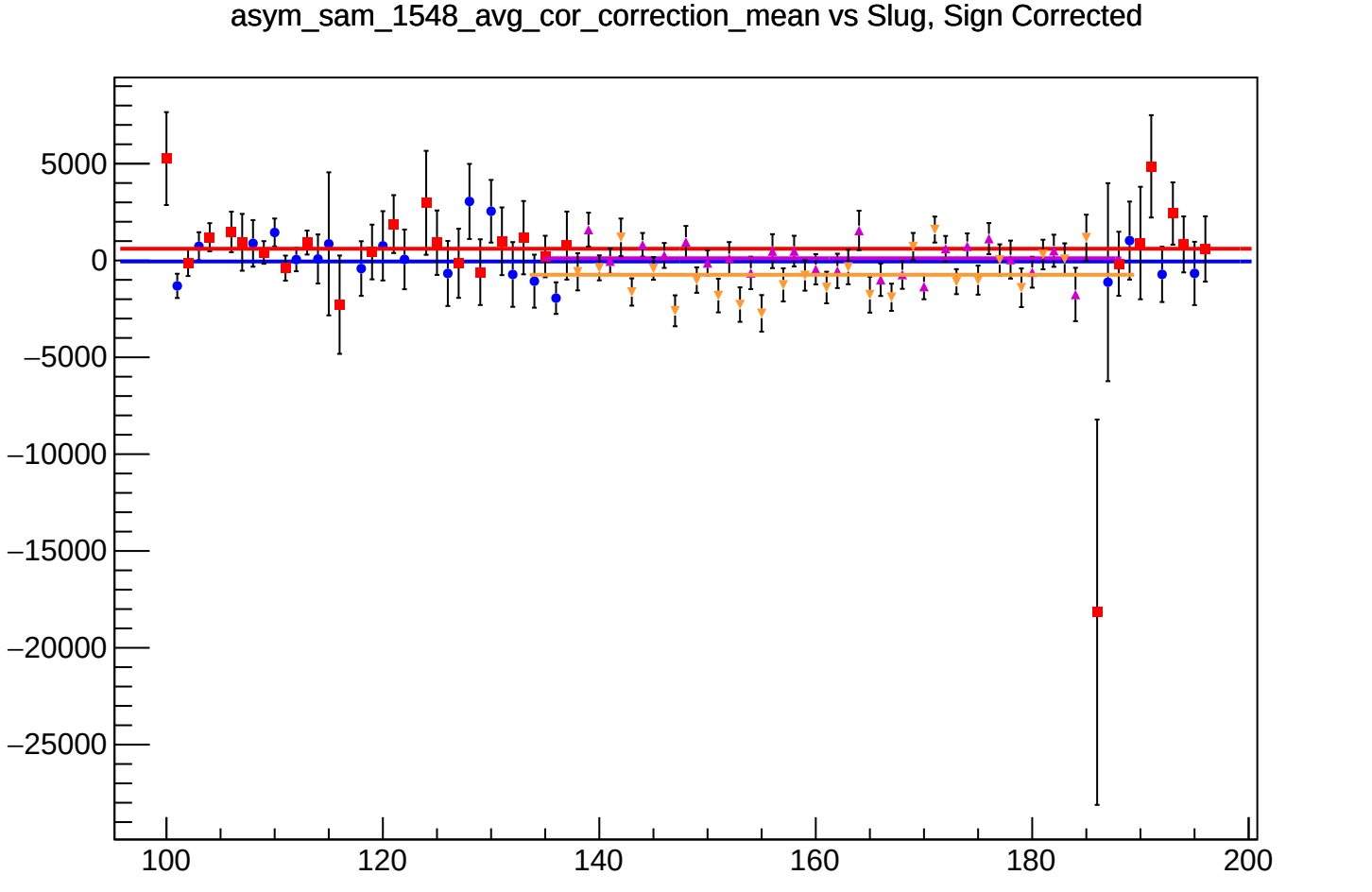
Left: 100.157+/-0.012 $\chi^2$/NDF: 1355414.8/47

Right: 87.641+/-0.014 $\chi^2$/NDF: 4254072.5/45

In: 95.384+/-0.013 $\chi^2$/NDF:2410306.7/42

Out: 94.788+/-0.012 $\chi^2$/NDF:3665200.1/50

All: 95.071+/-0.009 $\chi^2$/NDF: 6076600.2/93




Right In: -52.323+/-247.768 $\chi^2$/NDF: 22.6/19

Left Out: -738.352+/-156.311 $\chi^2$/NDF:49.7/24

Right Out: 607.508+/-226.959 $\chi^2$/NDF: 20.6/25

Left In: 115.639+/-160.990 $\chi^2$/NDF:23.7/22

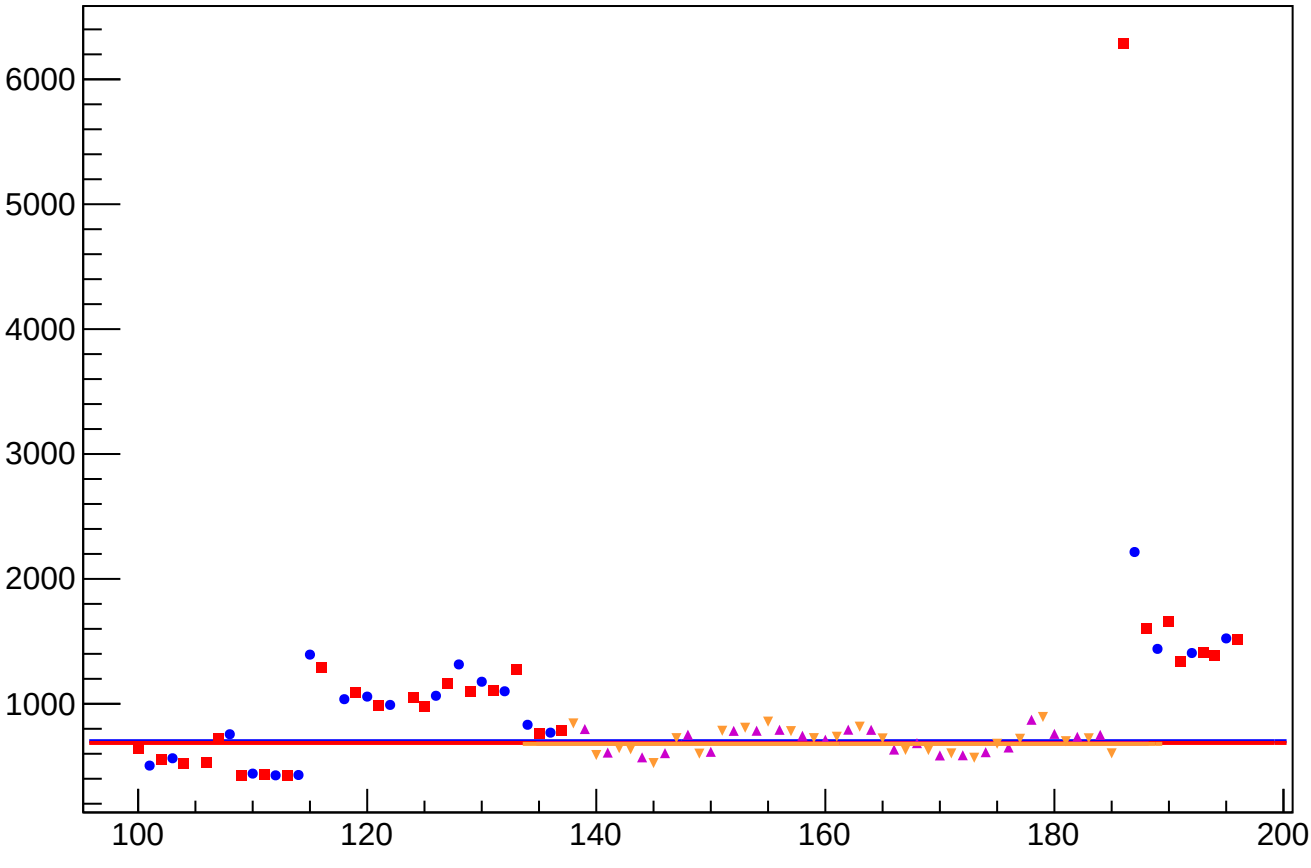
Left: -323.947+/-112.146 $\chi^2$/NDF: 87.9/47

Right: 306.459+/-167.358 $\chi^2$/NDF: 47.0/45

In: 65.778+/-134.996 $\chi^2$/NDF:46.6/42

Out: -305.352+/-128.734 $\chi^2$/NDF:94.1/50

All: -128.595+/-93.164 $\chi^2$/NDF: 144.7/93




Right In: 700.594+/-0.175 $\chi^2$/NDF: 3421781.2/19

Left Out: 679.146+/-0.111 $\chi^2$/NDF:737418.6/24

Right Out: 686.693+/-0.160 $\chi^2$/NDF: 5282247.4/25

Left In: 681.893+/-0.114 $\chi^2$/NDF:573813.6/22

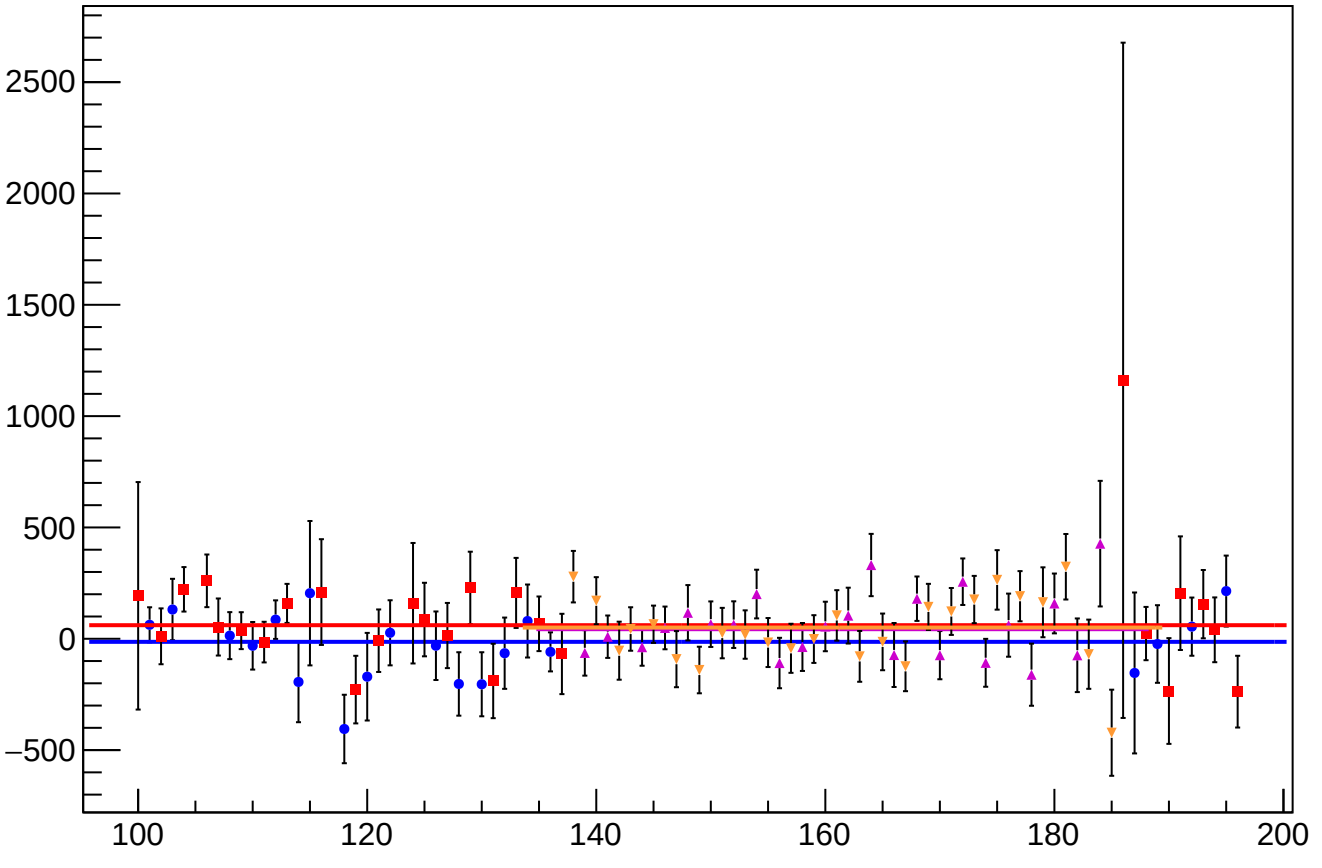
Left: 680.479+/-0.079 $\chi^2$/NDF: 1311532.0/47

Right: 693.035+/-0.118 $\chi^2$/NDF: 8707451.7/45

In: 687.445+/-0.095 $\chi^2$/NDF:4003606.0/42

Out: 681.574+/-0.091 $\chi^2$/NDF:6021165.8/50

All: 684.370+/-0.066 $\chi^2$/NDF: 10026752.5/93




Right In: -13.783+/-29.313 $\chi^2$/NDF: 18.8/19

Left Out: 50.322+/-22.958 $\chi^2$/NDF:33.4/24

Right Out: 60.969+/-27.242 $\chi^2$/NDF: 23.2/25

Left In: 43.026+/-23.758 $\chi^2$/NDF:26.6/22

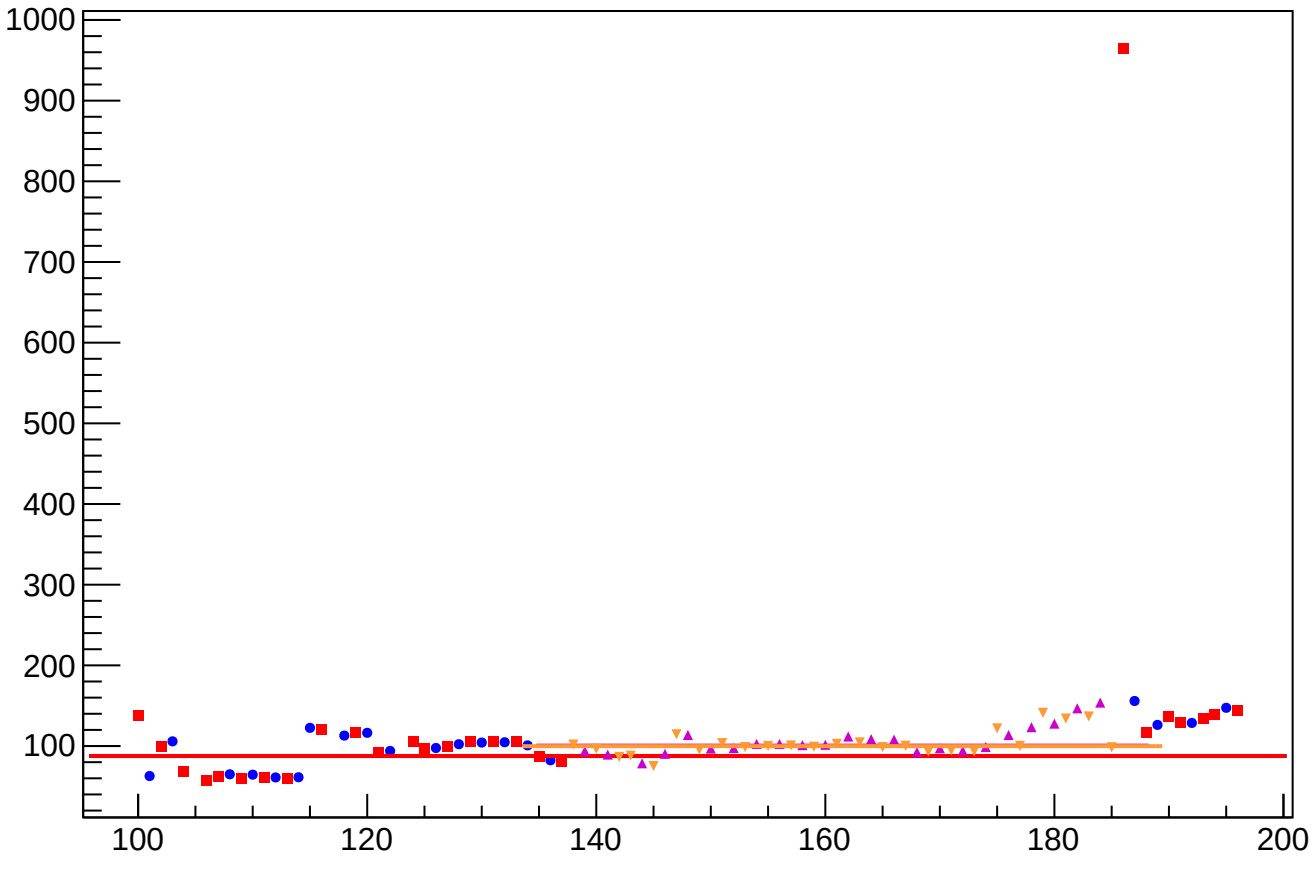
Left: 46.799+/-16.509 $\chi^2$/NDF: 60.1/47

Right: 26.326+/-19.955 $\chi^2$/NDF: 45.5/45

In: 20.503+/-18.457 $\chi^2$/NDF:47.7/42

Out: 54.743+/-17.555 $\chi^2$/NDF:56.8/50

All: 38.480+/-12.720 $\chi^2$/NDF: 106.3/93




Right In: 87.599+/-0.021 $\chi^2$/NDF: 1519726.6/19

Left Out: 99.839+/-0.016 $\chi^2$/NDF:697768.8/24

Right Out: 87.677+/-0.019 $\chi^2$/NDF: 2734338.4/25

Left In: 100.498+/-0.017 $\chi^2$/NDF:656850.1/22

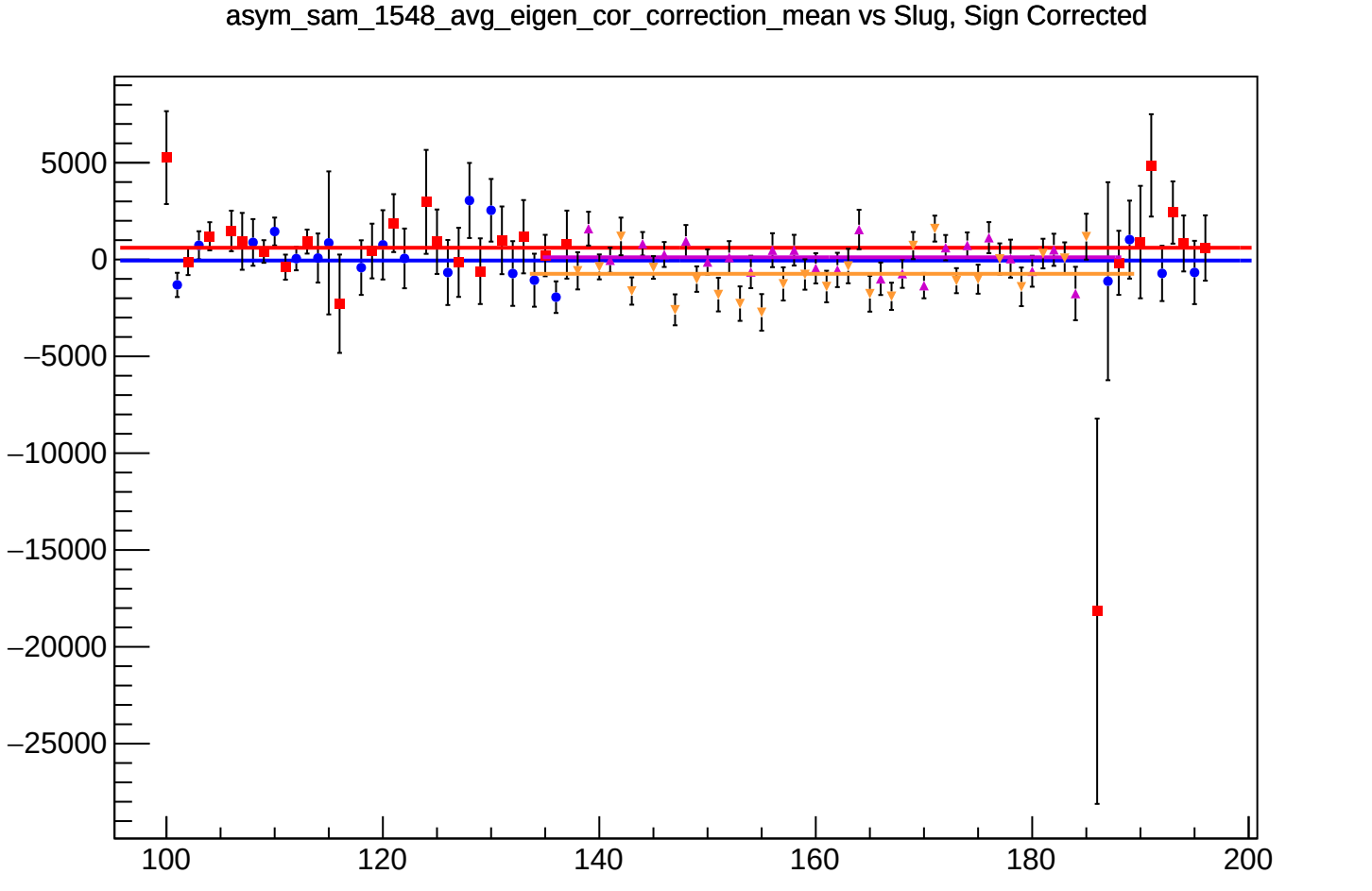
Left: 100.157+/-0.012 $\chi^2$/NDF: 1355414.8/47

Right: 87.641+/-0.014 $\chi^2$/NDF: 4254072.5/45

In: 95.384+/-0.013 $\chi^2$/NDF:2410306.7/42

Out: 94.788+/-0.012 $\chi^2$/NDF:3665200.1/50

All: 95.071+/-0.009 $\chi^2$/NDF: 6076600.2/93




Right In: -52.323+/-247.768 $\chi^2$/NDF: 22.6/19

Left Out: -738.352+/-156.311 $\chi^2$/NDF:49.7/24

Right Out: 607.508+/-226.959 $\chi^2$/NDF: 20.6/25

Left In: 115.639+/-160.990 $\chi^2$/NDF:23.7/22

Left: -323.947+/-112.146 $\chi^2$/NDF: 87.9/47

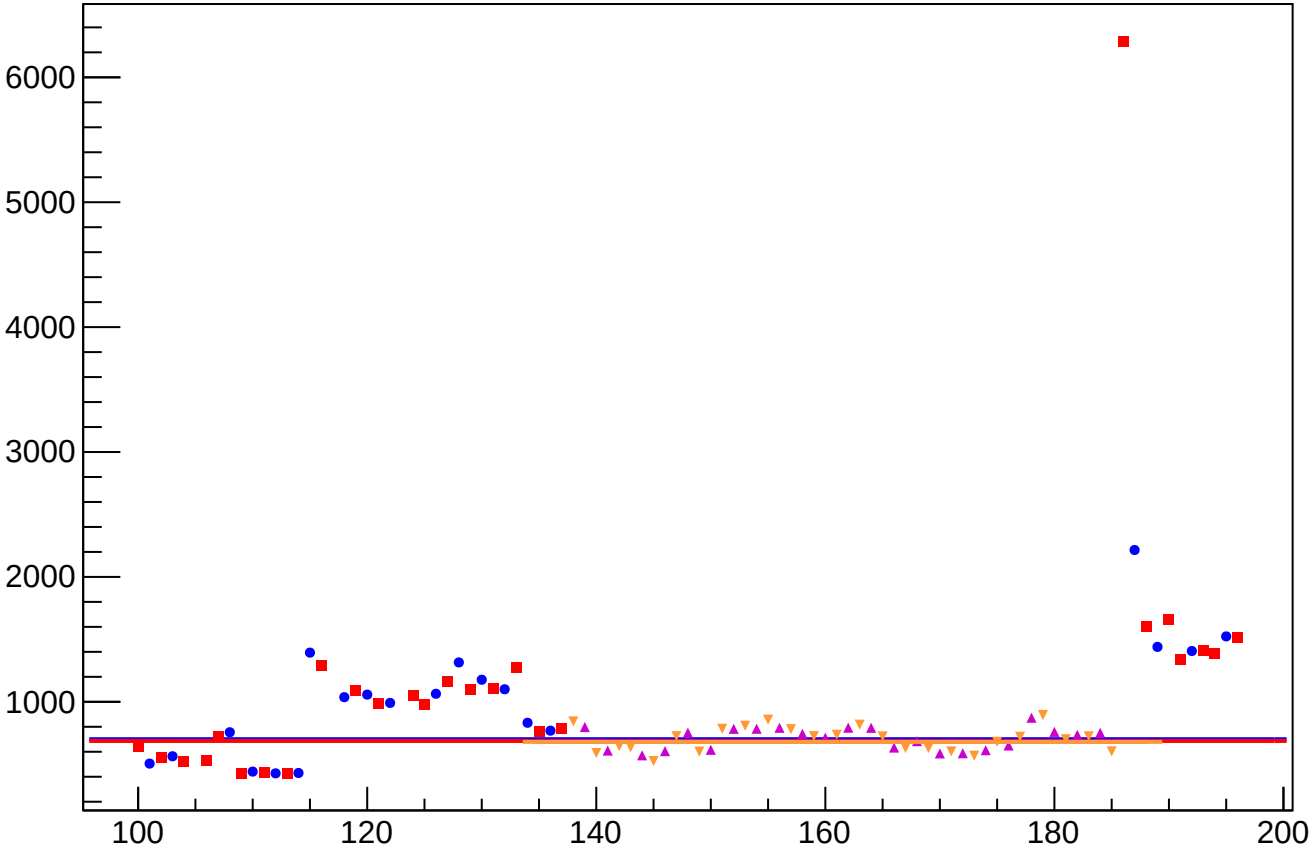
Right: 306.459+/-167.358 $\chi^2$/NDF: 47.0/45

In: 65.778+/-134.996 $\chi^2$/NDF:46.6/42

Out: -305.352+/-128.734 $\chi^2$/NDF:94.1/50

All: -128.595+/-93.164 $\chi^2$/NDF: 144.7/93

asym_sam_1548_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 700.594+/-0.175 $\chi^2$/NDF: 3421781.2/19

Left Out: 679.146+/-0.111 $\chi^2$/NDF:737418.6/24

Right Out: 686.693+/-0.160 $\chi^2$/NDF: 5282247.4/25

Left In: 681.893+/-0.114 $\chi^2$/NDF:573813.6/22

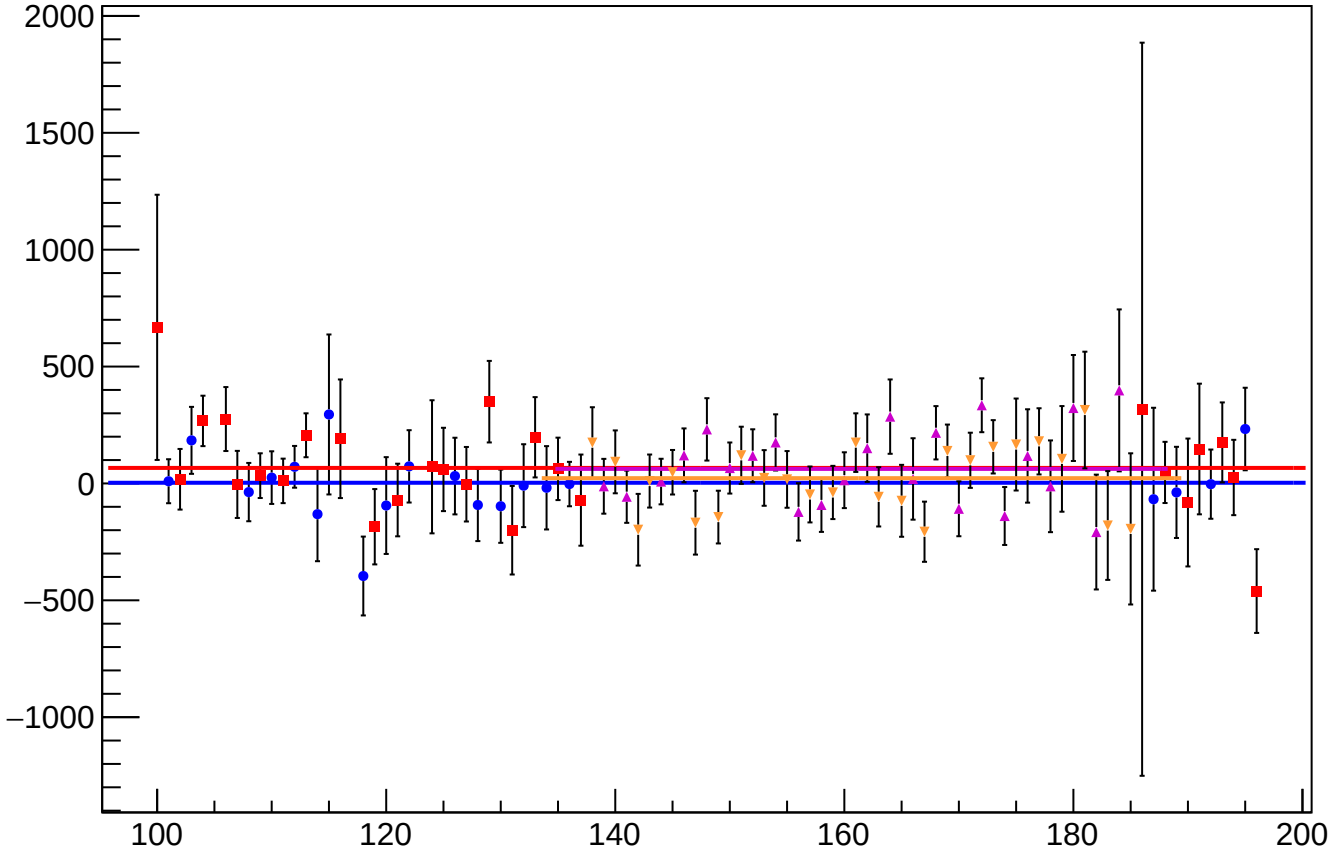
Left: 680.479+/-0.079 $\chi^2$/NDF: 1311532.0/47

Right: 693.035+/-0.118 $\chi^2$/NDF: 8707451.7/45

In: 687.445+/-0.095 $\chi^2$/NDF:4003606.0/42

Out: 681.574+/-0.091 $\chi^2$/NDF:6021165.8/50

All: 684.370+/-0.066 $\chi^2$/NDF: 10026752.5/93




Right In: 2.855+/-32.143 $\chi^2$/NDF: 12.1/19

Left Out: 22.542+/-26.643 $\chi^2$/NDF:21.6/24

Right Out: 66.387+/-29.777 $\chi^2$/NDF: 28.9/25

Left In: 62.169+/-27.339 $\chi^2$/NDF:27.3/22

Left: 41.845+/-19.081 $\chi^2$/NDF: 50.0/47

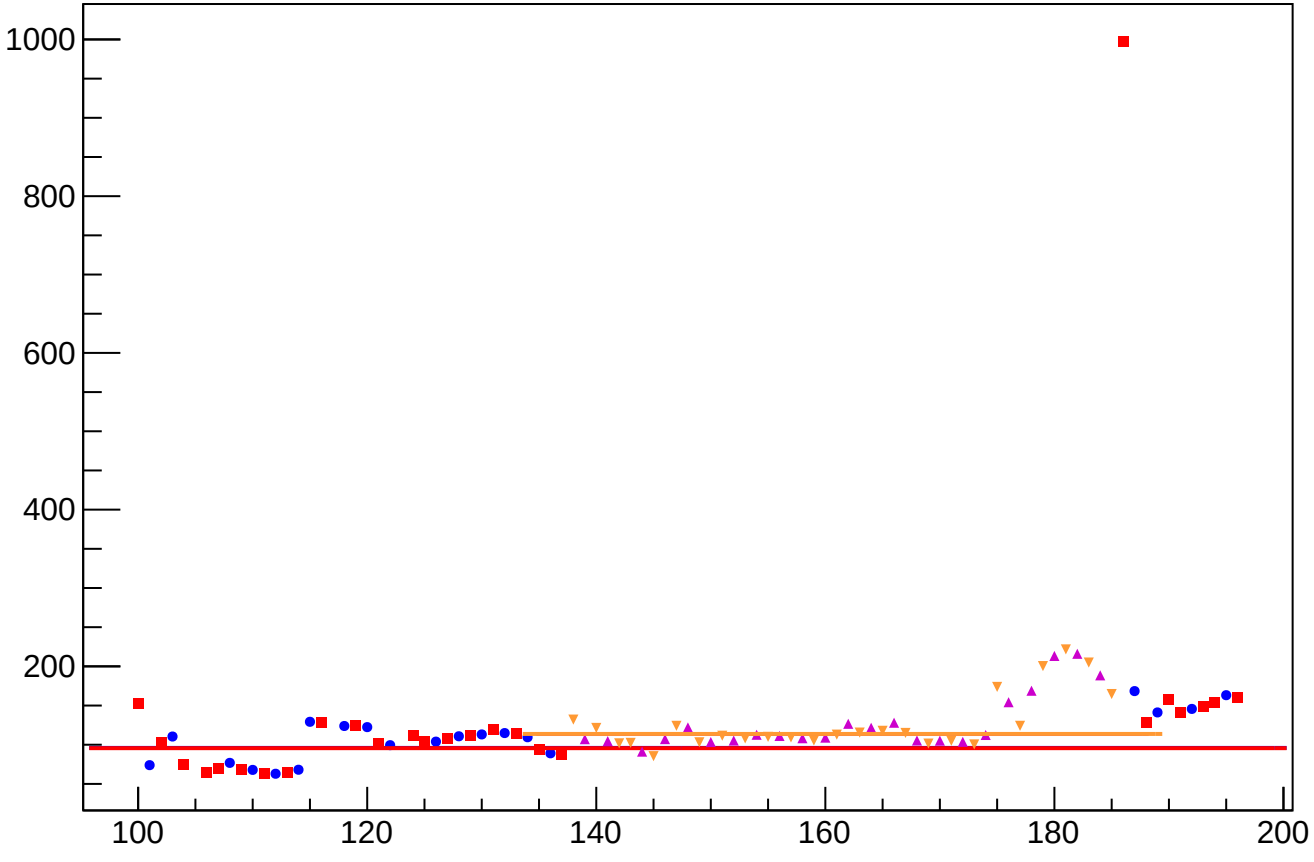
Right: 37.046+/-21.844 $\chi^2$/NDF: 43.1/45

In: 37.272+/-20.825 $\chi^2$/NDF:41.4/42

Out: 42.037+/-19.855 $\chi^2$/NDF:51.7/50

All: 39.768+/-14.370 $\chi^2$/NDF: 93.2/93

# dit_asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 95.922+/-0.023 $\chi^2$/NDF: 1504542.4/19

Left Out: 113.766+/-0.019 $\chi^2$/NDF:1579920.3/24

Right Out: 95.612+/-0.021 $\chi^2$/NDF: 2743750.6/25

Left In: 113.677+/-0.019 $\chi^2$/NDF:1316044.6/22

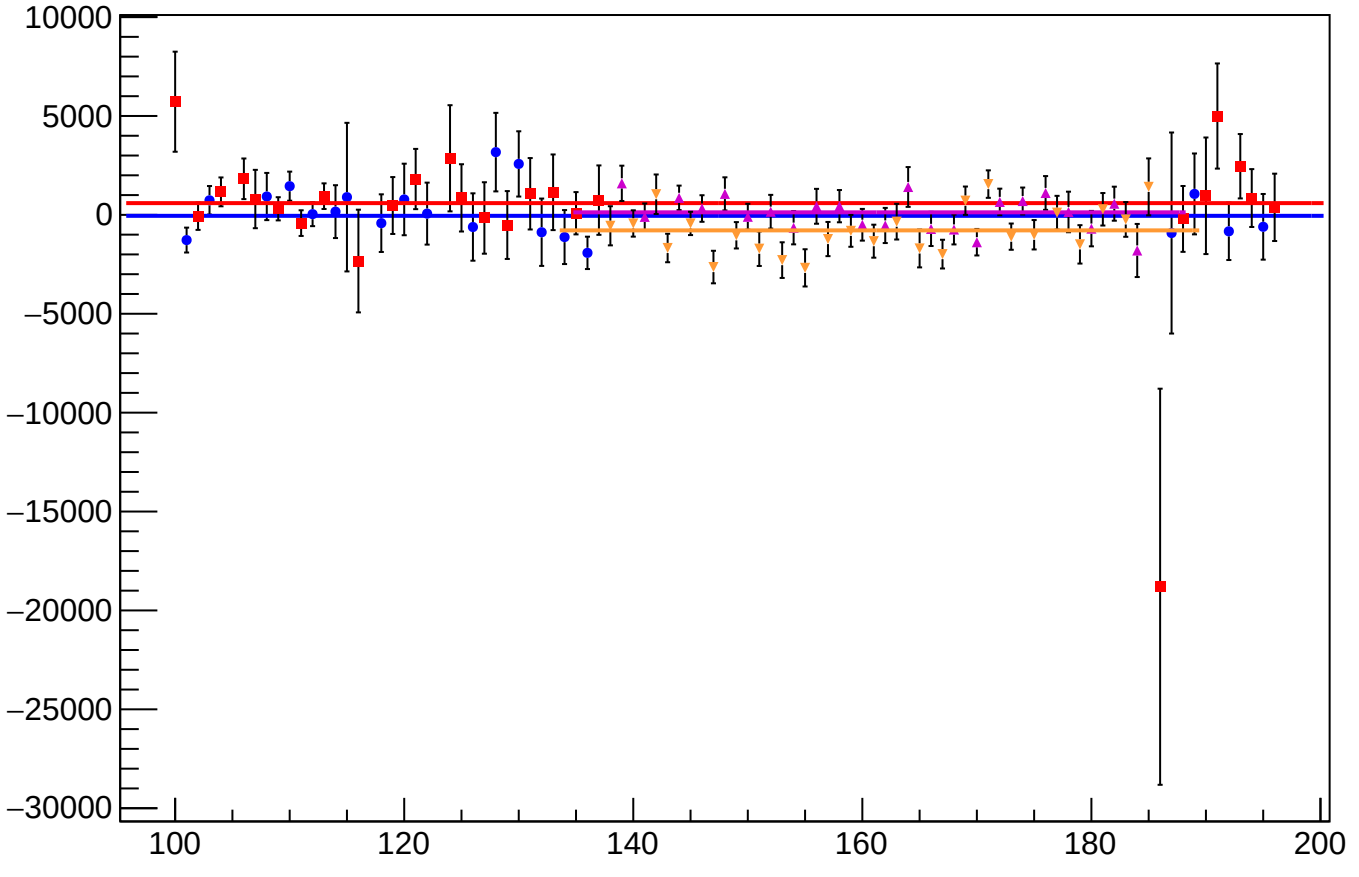
Left: 113.723+/-0.013 $\chi^2$/NDF: 2895975.8/47

Right: 95.755+/-0.015 $\chi^2$/NDF: 4248393.4/45

In: 106.224+/-0.015 $\chi^2$/NDF:3174652.8/42

Out: 105.694+/-0.014 $\chi^2$/NDF:4736547.3/50

All: 105.946+/-0.010 $\chi^2$/NDF: 7911879.0/93




Right In: -48.754+/-250.185 $\chi^2$/NDF: 22.3/19

Left Out: -784.286+/-160.482 $\chi^2$/NDF:45.4/24

Right Out: 593.999+/-229.411 $\chi^2$/NDF: 21.8/25

Left In: 128.155+/-165.255 $\chi^2$/NDF:22.7/22

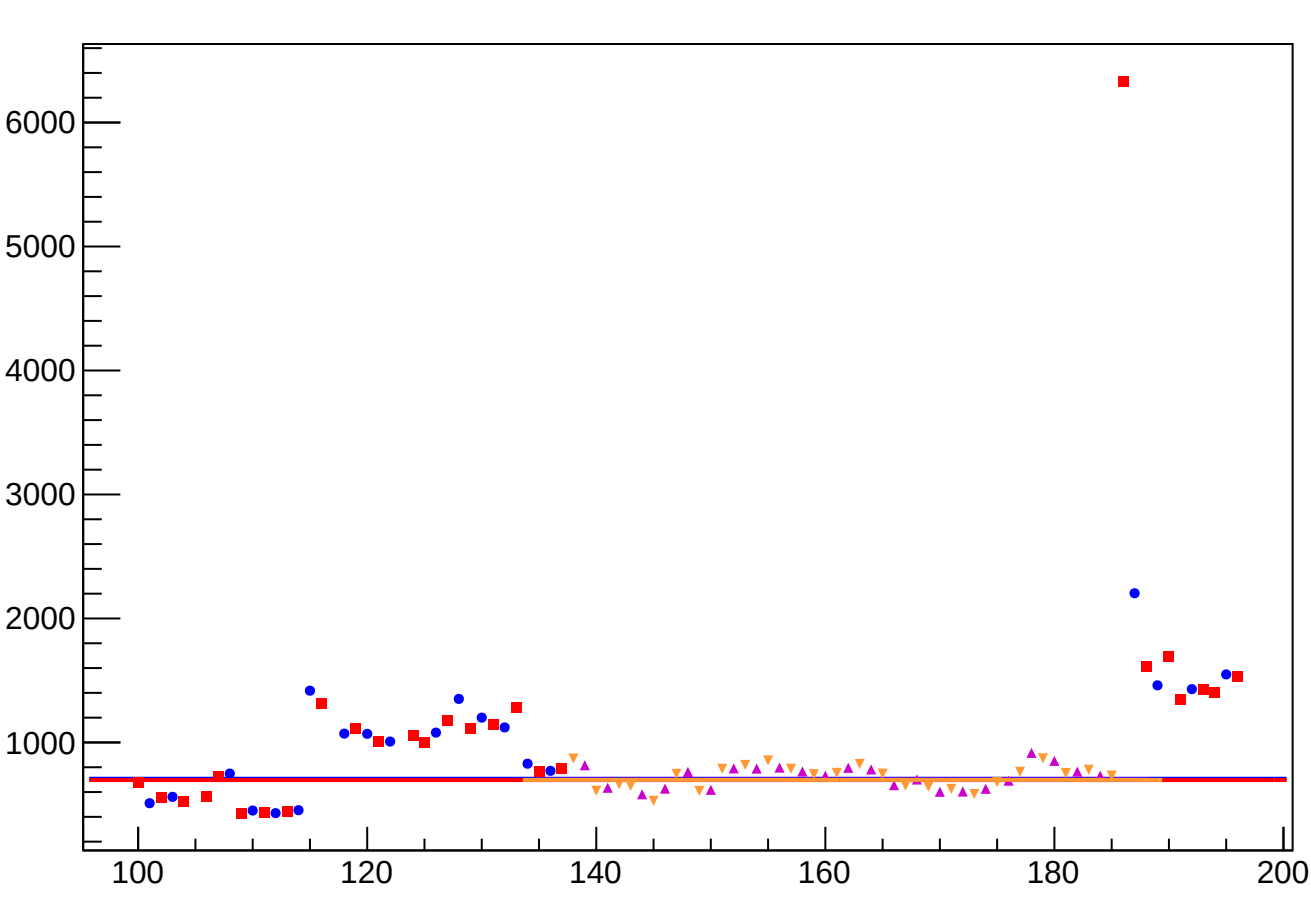
Left: -341.434+/-115.128 $\chi^2$/NDF: 83.8/47

Right: 300.411+/-169.086 $\chi^2$/NDF: 47.7/45

In: 74.416+/-137.890 $\chi^2$/NDF:45.4/42

Out: -331.426+/-131.500 $\chi^2$/NDF:91.4/50

All: -138.125+/-95.163 $\chi^2$/NDF: 141.3/93




Right In: 707.281+/-0.177 $\chi^2$/NDF: 3447887.2/19

Left Out: 698.237+/-0.113 $\chi^2$/NDF:714686.8/24

Right Out: 696.580+/-0.162 $\chi^2$/NDF: 5265928.0/25

Left In: 700.079+/-0.117 $\chi^2$/NDF:584318.7/22

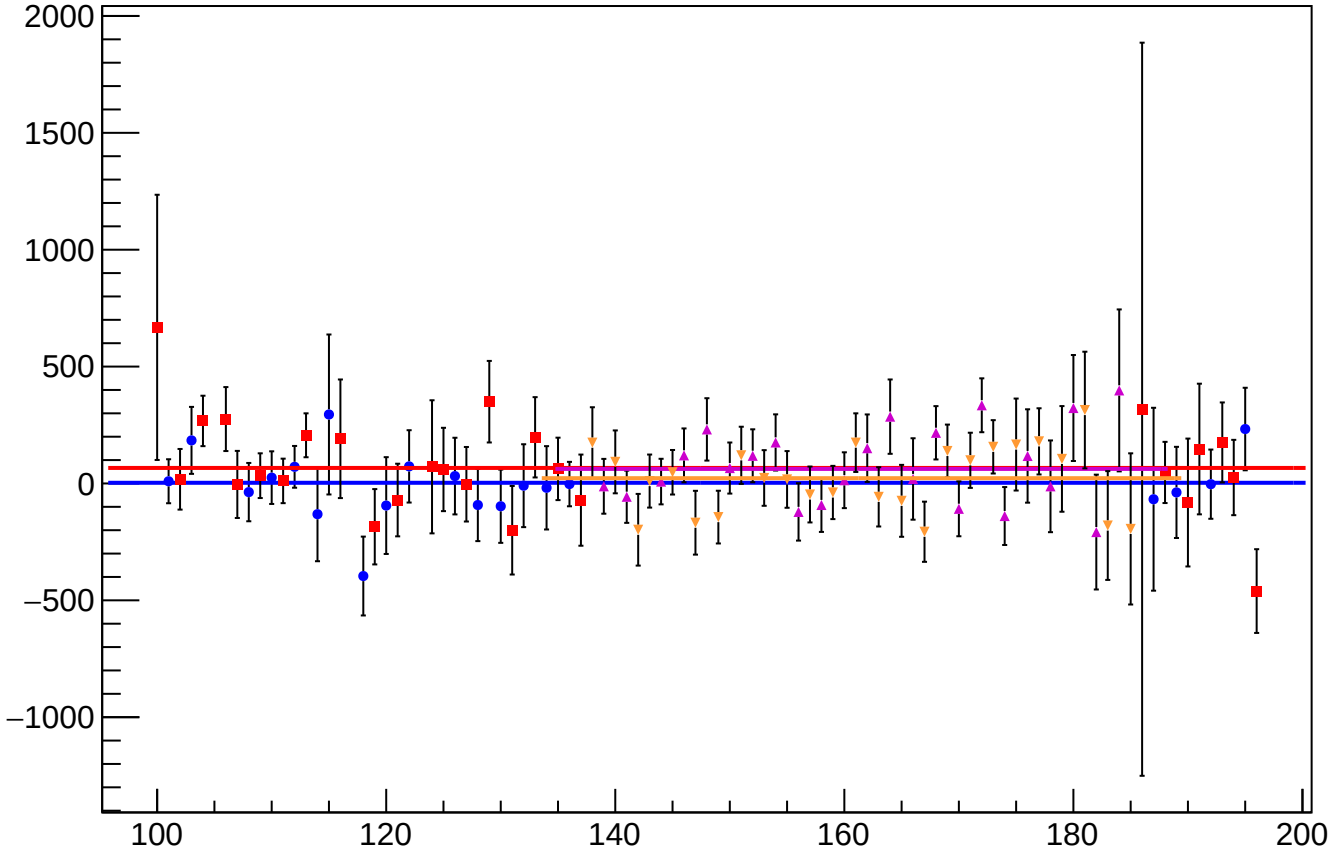
Left: 699.131+/-0.081 $\chi^2$/NDF: 1299133.4/47

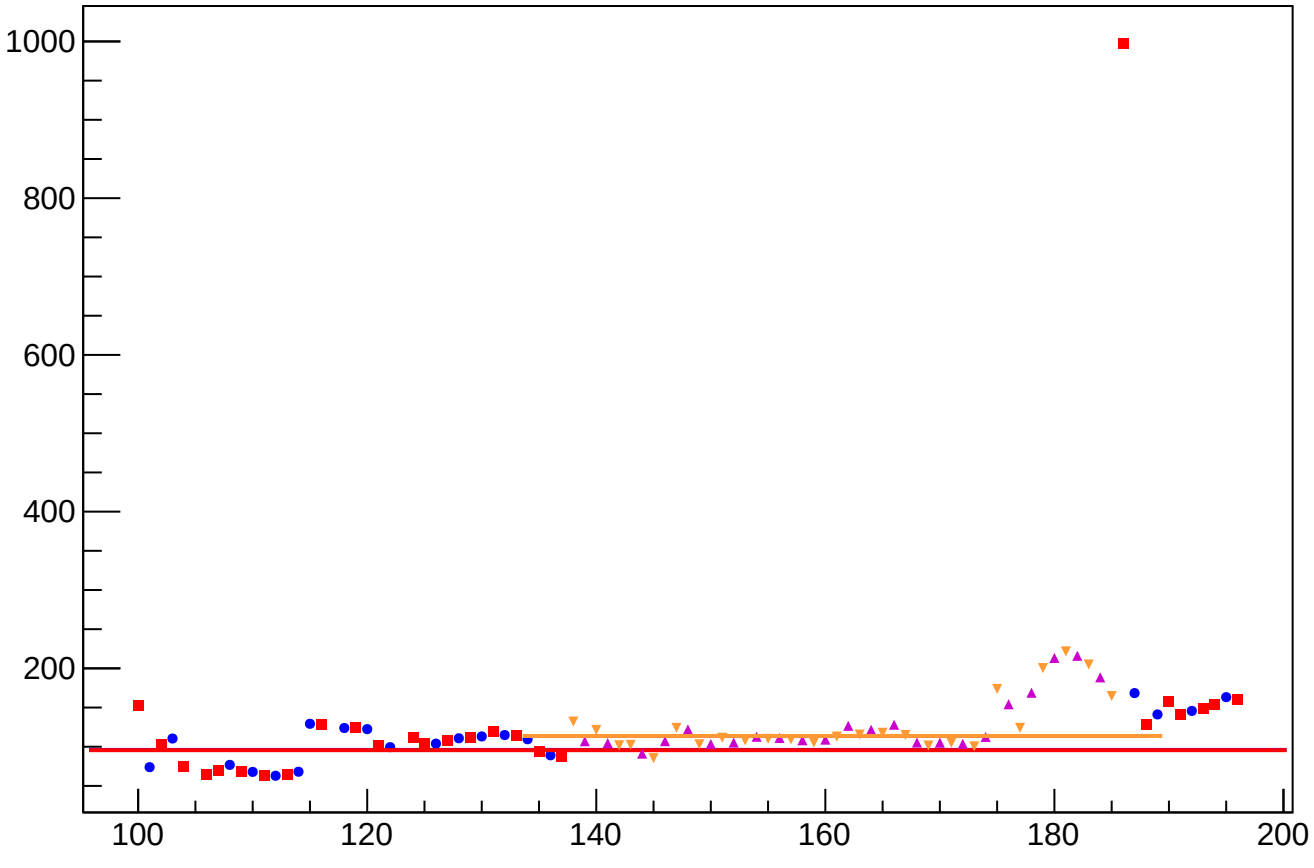
Right: 701.468+/-0.120 $\chi^2$/NDF: 8715802.8/45

In: 702.267+/-0.098 $\chi^2$/NDF:4033359.7/42

Out: 697.693+/-0.093 $\chi^2$/NDF:5980684.8/50

All: 699.871+/-0.067 $\chi^2$/NDF: 10015197.2/93


eigen_dit_asym_sam_1548_avg_mean vs Slug, Sign Corrected
2000
1500
1000
500
0
−500
−1000
100
120
140
160
180
200
Right In: 2.856+/-32.143 χ²/NDF: 12.1/19
Left Out: 22.544+/-26.643 χ²/NDF:21.6/24
Right Out: 66.387+/-29.777 χ²/NDF: 28.9/25
Left In: 62.169+/-27.339 χ²/NDF:27.3/22
Left: 41.846+/-19.081 χ²/NDF: 50.0/47
Right: 37.046+/-21.844 χ²/NDF: 43.1/45
In: 37.272+/-20.825 χ²/NDF:41.4/42
Out: 42.038+/-19.855 χ²/NDF:51.7/50
All: 39.768+/-14.370 χ²/NDF: 93.2/93




Right In: 95.922+/-0.023 $\chi^2$/NDF: 1504537.9/19

Left Out: 113.766+/-0.019 $\chi^2$/NDF:1579910.8/24

Right Out: 95.612+/-0.021 $\chi^2$/NDF: 2743750.2/25

Left In: 113.677+/-0.019 $\chi^2$/NDF:1316023.5/22

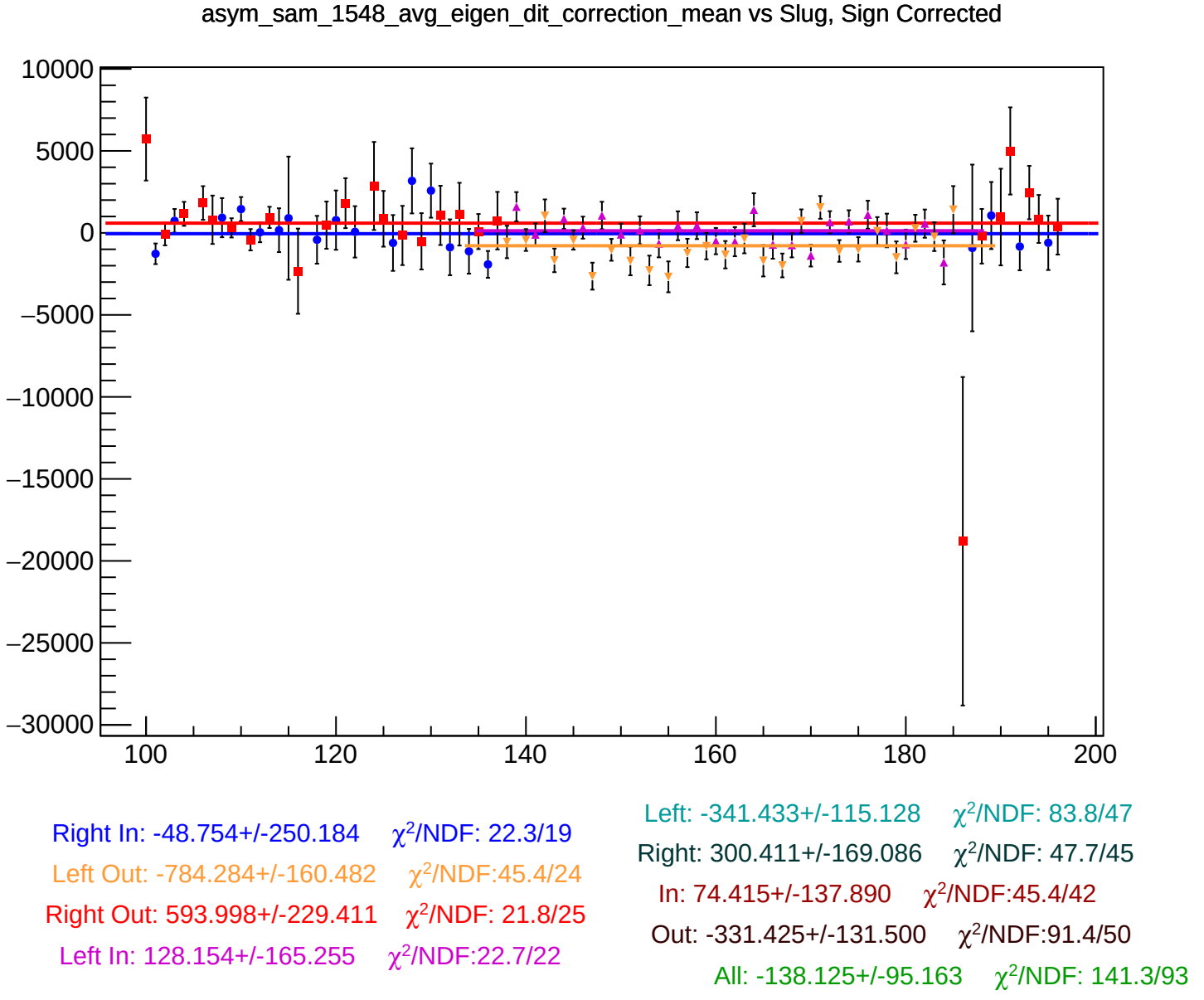
Left: 113.723+/-0.013 $\chi^2$/NDF: 2895945.2/47

Right: 95.755+/-0.015 $\chi^2$/NDF: 4248388.6/45

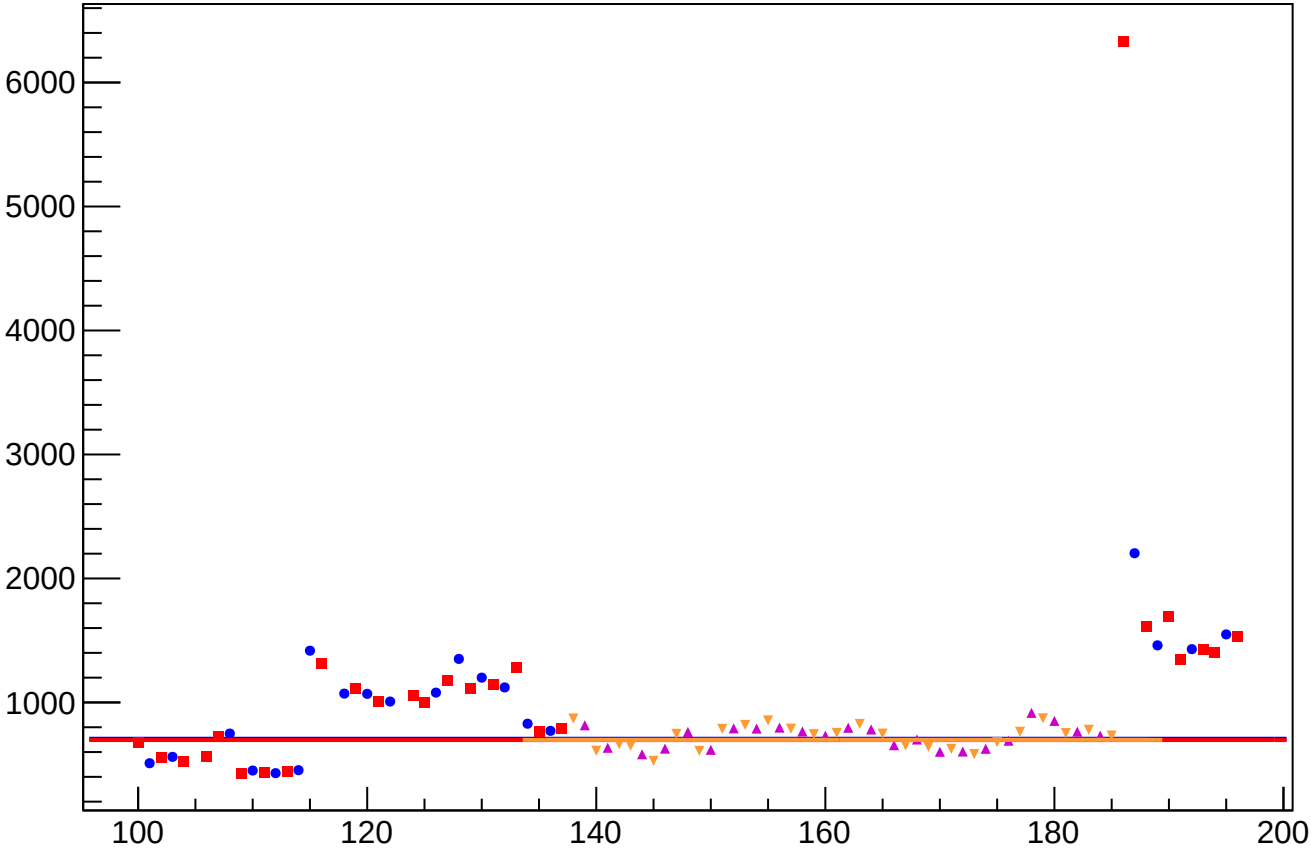
In: 106.224+/-0.015 $\chi^2$/NDF:3174634.8/42

Out: 105.694+/-0.014 $\chi^2$/NDF:4736544.4/50

All: 105.947+/-0.010 $\chi^2$/NDF: 7911858.2/93


asym_sam_1548_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
10000
5000
0
−5000
−10000
−15000
−20000
−25000
−30000
100
120
140
160
180
200
Right In: -48.754+/-250.184 χ²/NDF: 22.3/19
Left Out: -784.284+/-160.482 χ²/NDF:45.4/24
Right Out: 593.998+/-229.411 χ²/NDF: 21.8/25
Left In: 128.154+/-165.255 χ²/NDF:22.7/22
Left: -341.433+/-115.128 χ²/NDF: 83.8/47
Right: 300.411+/-169.086 χ²/NDF: 47.7/45
In: 74.415+/-137.890 χ²/NDF:45.4/42
Out: -331.425+/-131.500 χ²/NDF:91.4/50
All: -138.125+/-95.163 χ²/NDF: 141.3/93

asym_sam_1548_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 707.280+/-0.177 $\chi^2$/NDF: 3447890.4/19

Left Out: 698.236+/-0.113 $\chi^2$/NDF:714685.1/24

Right Out: 696.579+/-0.162 $\chi^2$/NDF: 5265925.5/25

Left In: 700.079+/-0.117 $\chi^2$/NDF:584314.1/22

Left: 699.130+/-0.081 $\chi^2$/NDF: 1299127.2/47

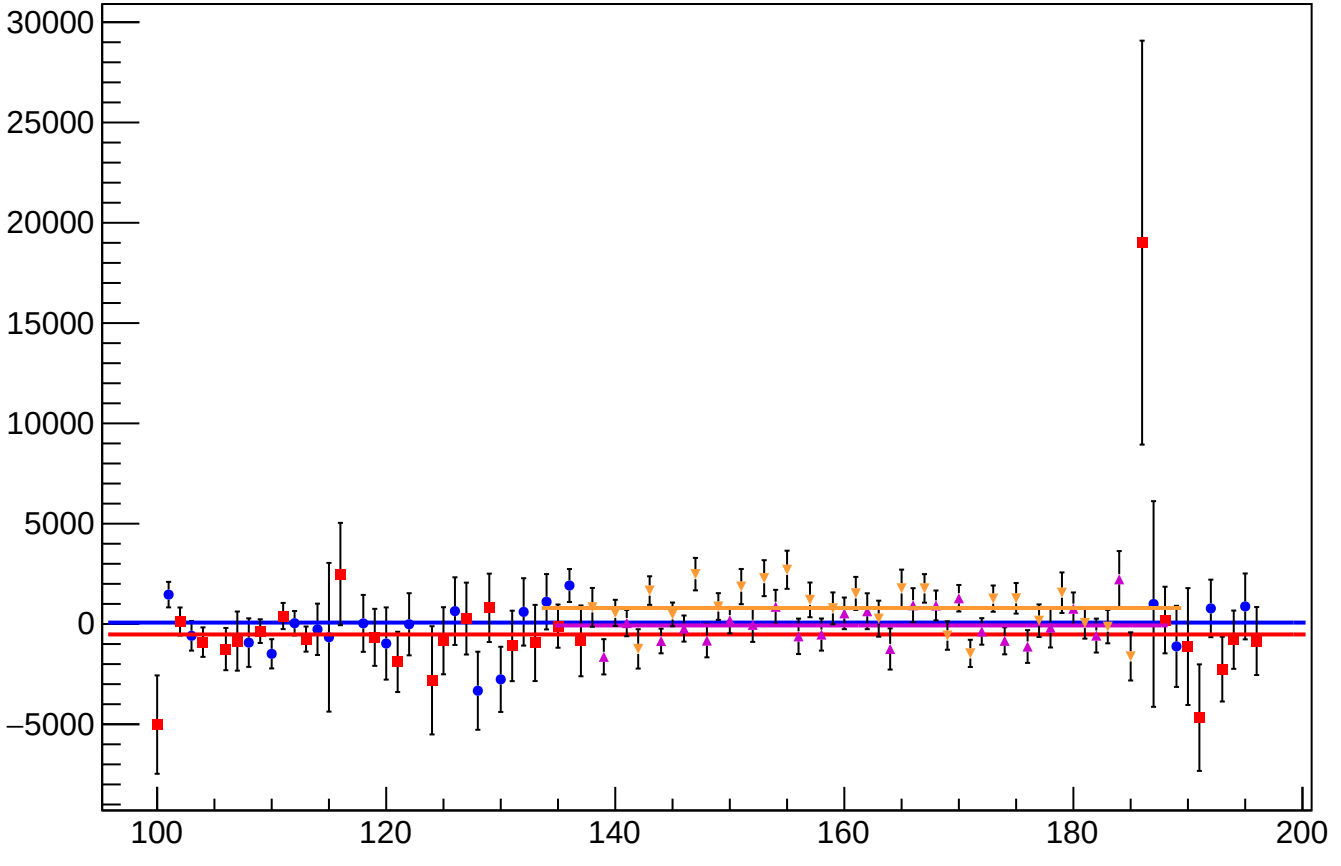
Right: 701.467+/-0.120 $\chi^2$/NDF: 8715803.5/45

In: 702.266+/-0.098 $\chi^2$/NDF:4033358.2/42

Out: 697.692+/-0.093 $\chi^2$/NDF:5980680.7/50

All: 699.871+/-0.067 $\chi^2$/NDF: 10015191.6/93

# asym_sam_1548_avg_mean vs Slug, Sign Corrected




Right In: 69.281+/-250.347 $\chi^2$/NDF: 24.1/19

Left Out: 796.905+/-158.142 $\chi^2$/NDF:46.4/24

Right Out: -522.436+/-229.187 $\chi^2$/NDF: 19.0/25

Left In: -73.501+/-162.879 $\chi^2$/NDF:24.9/22

Left: 374.544+/-113.461 $\chi^2$/NDF: 86.0/47

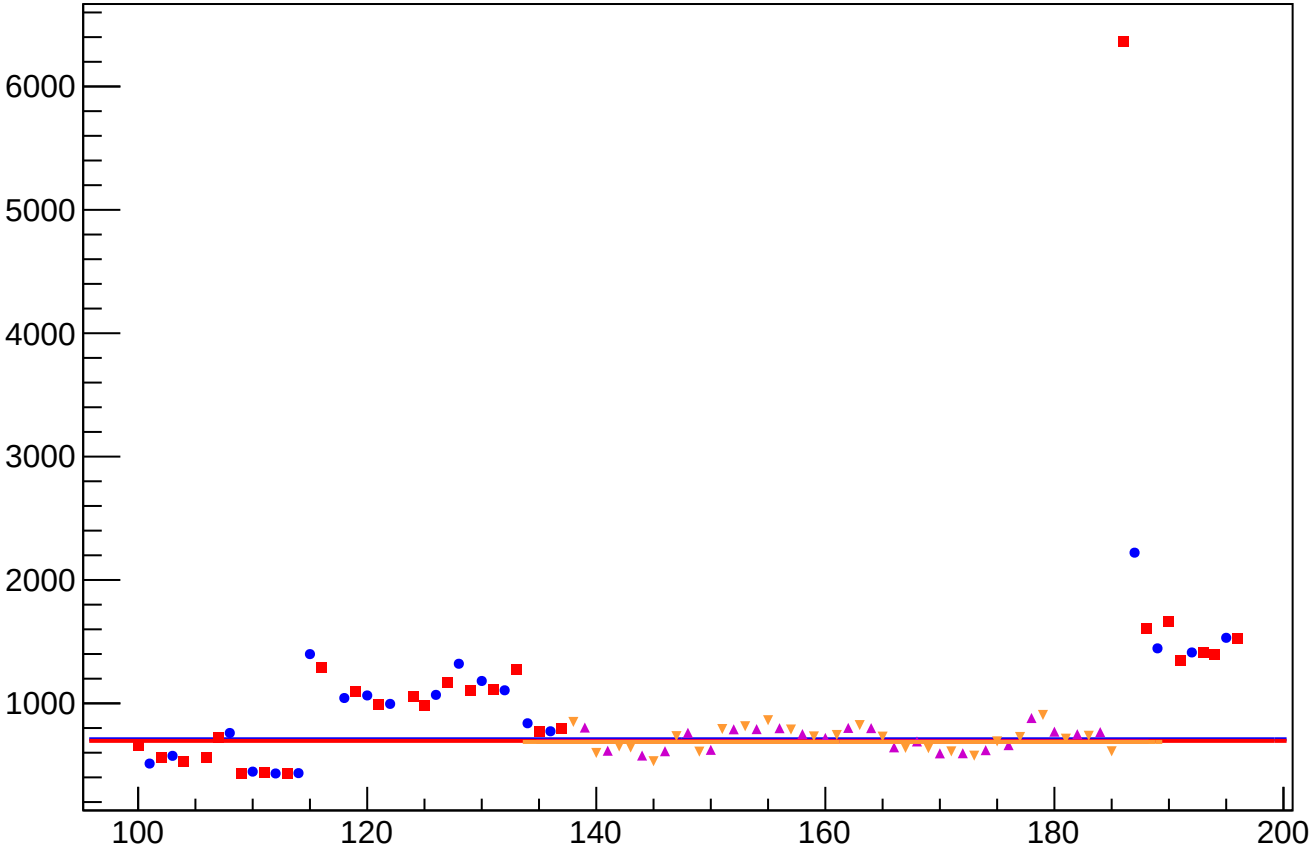
Right: -252.637+/-169.046 $\chi^2$/NDF: 46.1/45

In: -31.037+/-136.527 $\chi^2$/NDF:49.2/42

Out: 371.355+/-130.163 $\chi^2$/NDF:87.8/50

All: 179.757+/-94.208 $\chi^2$/NDF: 141.6/93

# asym_sam_1548_avg_rms vs Slug, Sign Corrected




Right In: 708.813+/-0.177 $\chi^2$/NDF: 3374485.0/19

Left Out: 687.243+/-0.112 $\chi^2$/NDF:727994.0/24

Right Out: 695.964+/-0.162 $\chi^2$/NDF: 5212160.1/25

Left In: 689.997+/-0.115 $\chi^2$/NDF:567089.0/22

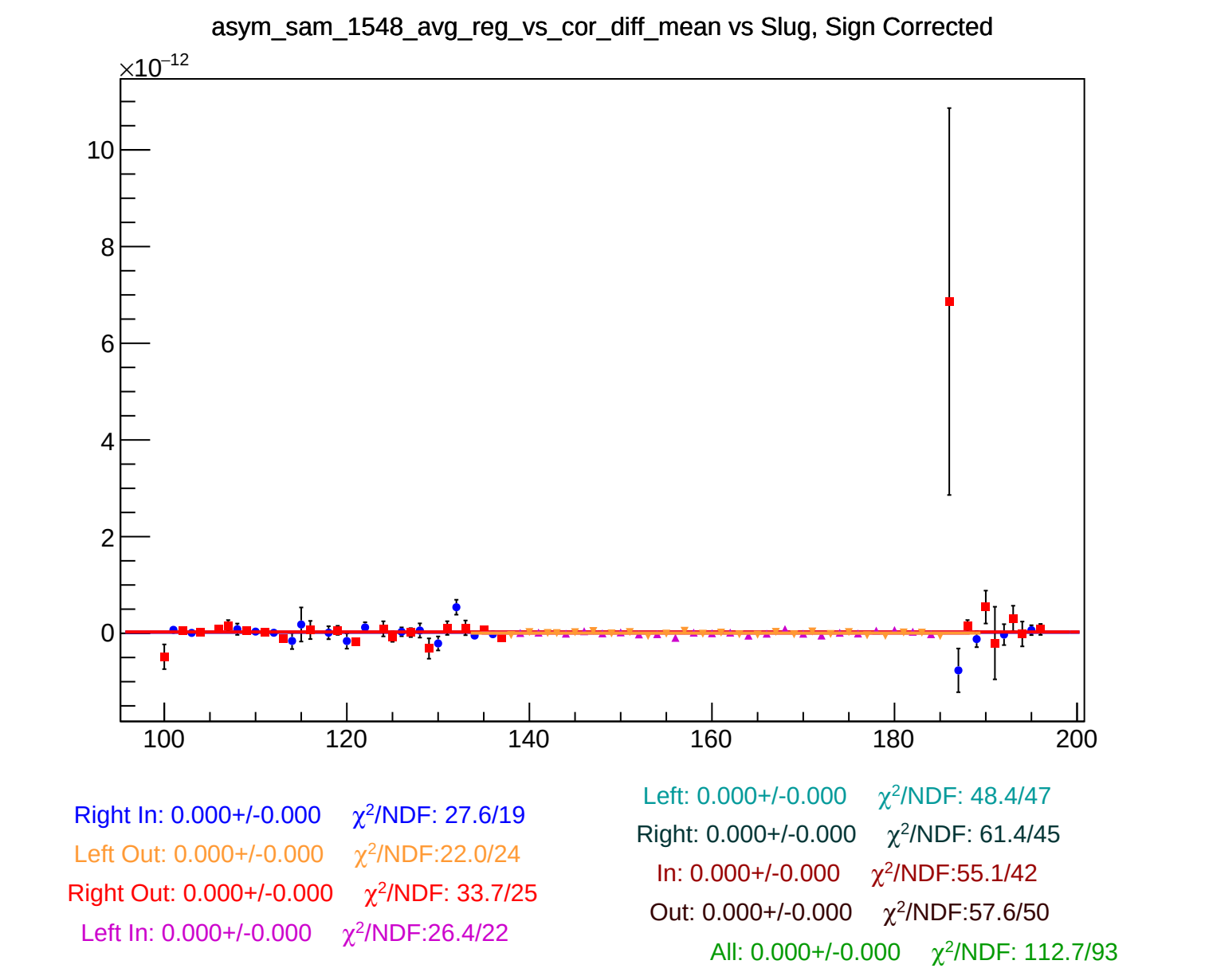
Left: 688.579+/-0.080 $\chi^2$/NDF: 1295377.3/47

Right: 701.823+/-0.120 $\chi^2$/NDF: 8589511.7/45

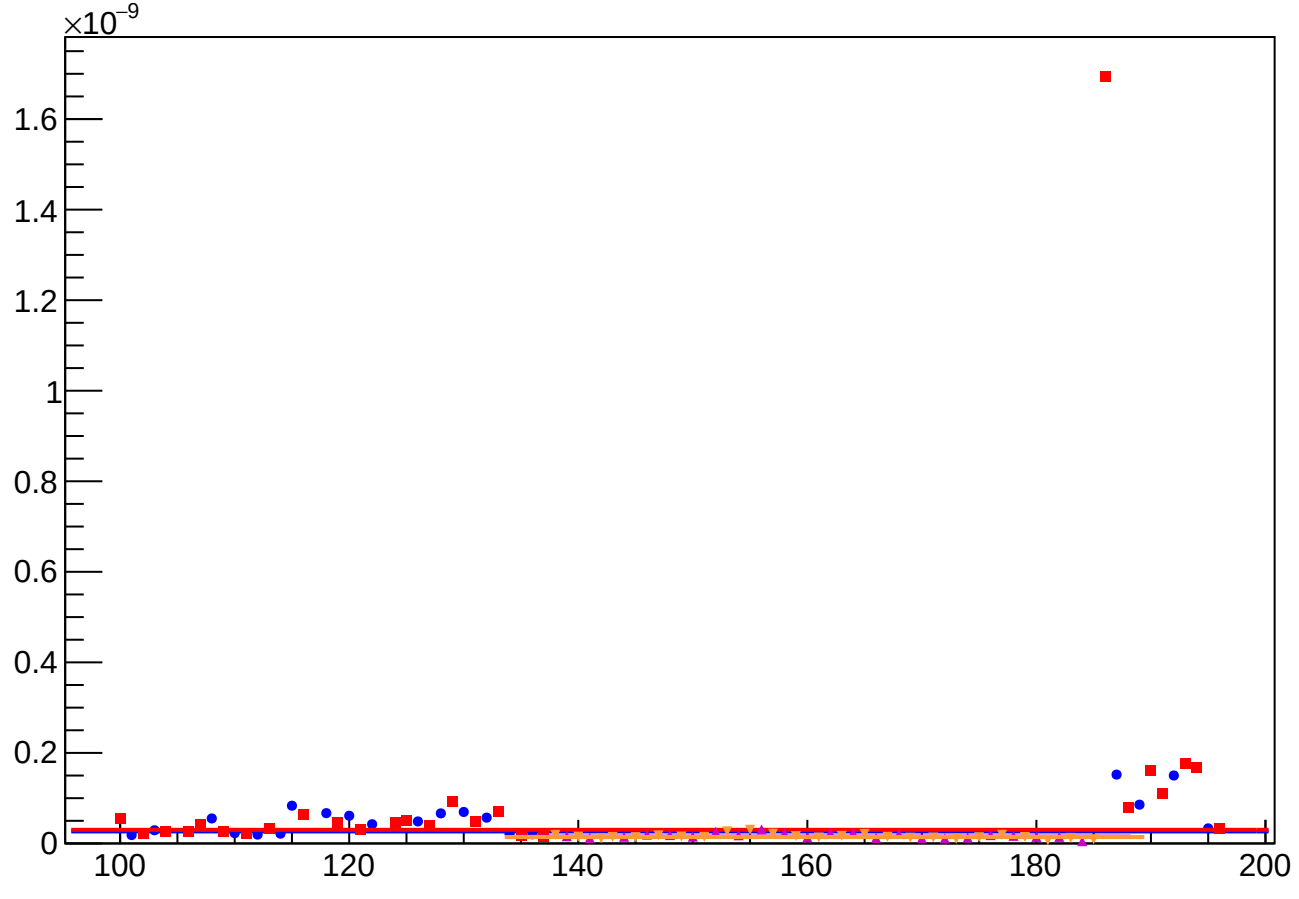
In: 695.593+/-0.097 $\chi^2$/NDF:3949512.3/42

Out: 690.056+/-0.092 $\chi^2$/NDF:5942115.8/50

All: 692.692+/-0.067 $\chi^2$/NDF: 9893351.6/93


asym_sam_1548_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
10
8
6
4
2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 27.6/19
Left Out: 0.000+/-0.000 χ²/NDF:22.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 33.7/25
Left In: 0.000+/-0.000 χ²/NDF:26.4/22
Left: 0.000+/-0.000 χ²/NDF: 48.4/47
Right: 0.000+/-0.000 χ²/NDF: 61.4/45
In: 0.000+/-0.000 χ²/NDF:55.1/42
Out: 0.000+/-0.000 χ²/NDF:57.6/50
All: 0.000+/-0.000 χ²/NDF: 112.7/93

asym_sam_1548_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2394886.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:992947.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3256366.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1107168.2/22

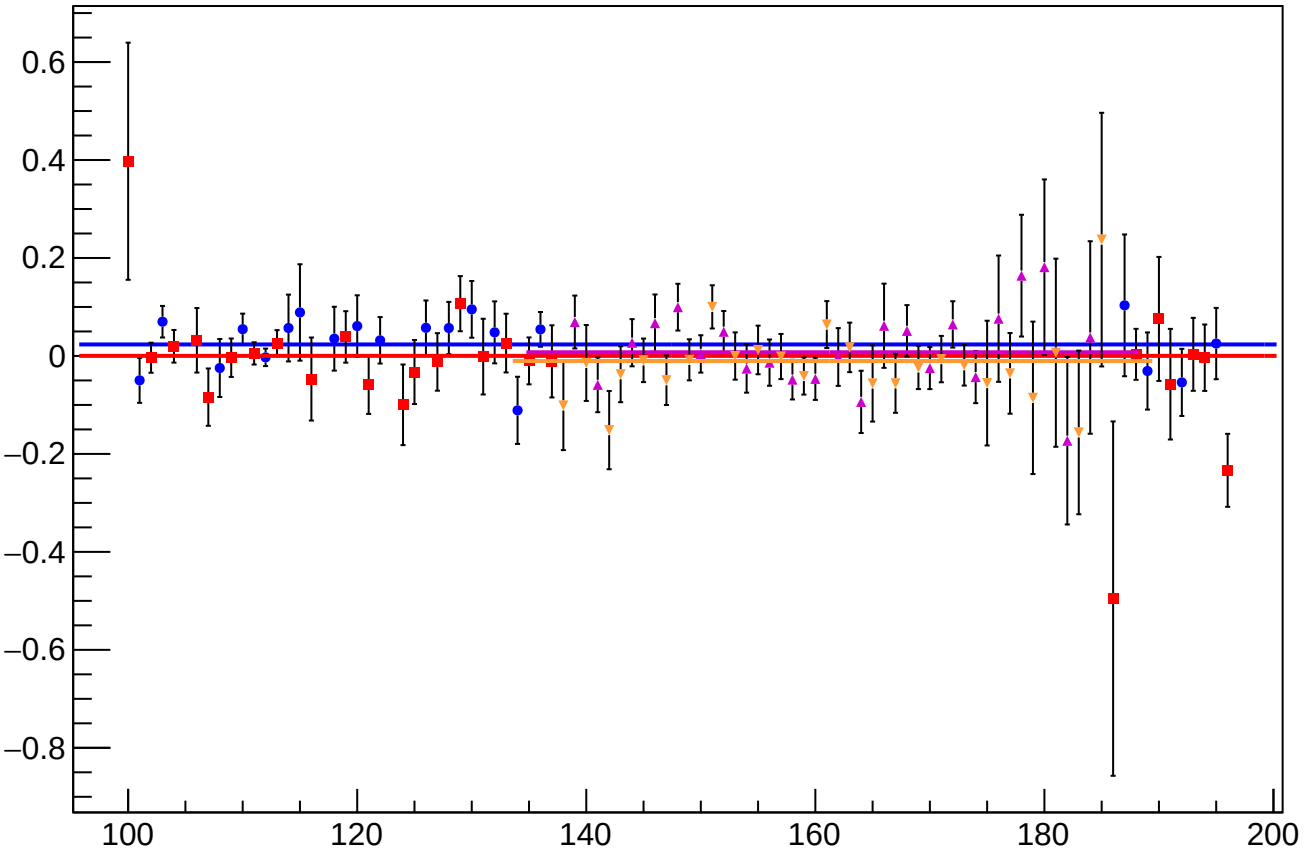
Left: 0.000+/-0.000 $\chi^2$/NDF: 2124302.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 5703627.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:4505888.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6009035.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 10534536.5/93




Right In: 0.023+/-0.010 $\chi^2$/NDF: 18.6/19

Left Out: -0.010+/-0.011 $\chi^2$/NDF:18.1/24

Right Out: 0.000+/-0.010 $\chi^2$/NDF: 26.2/25

Left In: 0.008+/-0.011 $\chi^2$/NDF:23.3/22

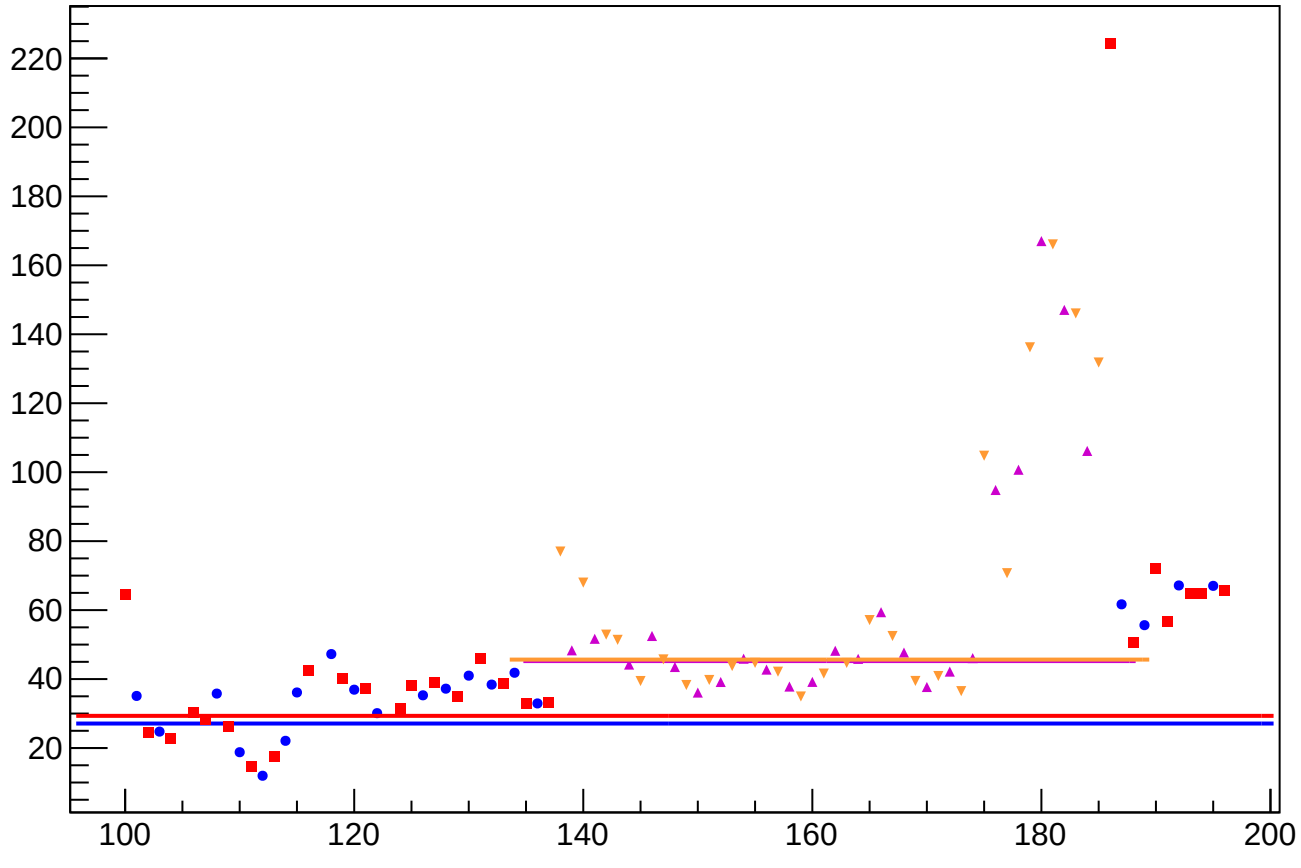
Left: -0.001+/-0.008 $\chi^2$/NDF: 42.6/47

Right: 0.012+/-0.007 $\chi^2$/NDF: 47.5/45

In: 0.017+/-0.008 $\chi^2$/NDF:43.0/42

Out: -0.004+/-0.007 $\chi^2$/NDF:44.7/50

All: 0.006+/-0.005 $\chi^2$/NDF: 91.6/93




Right In: 27.106+/-0.007 $\chi^2$/NDF: 4063833.8/19

Left Out: 45.650+/-0.008 $\chi^2$/NDF:4015230.2/24

Right Out: 29.334+/-0.007 $\chi^2$/NDF: 4613092.5/25

Left In: 45.217+/-0.008 $\chi^2$/NDF:2992534.4/22

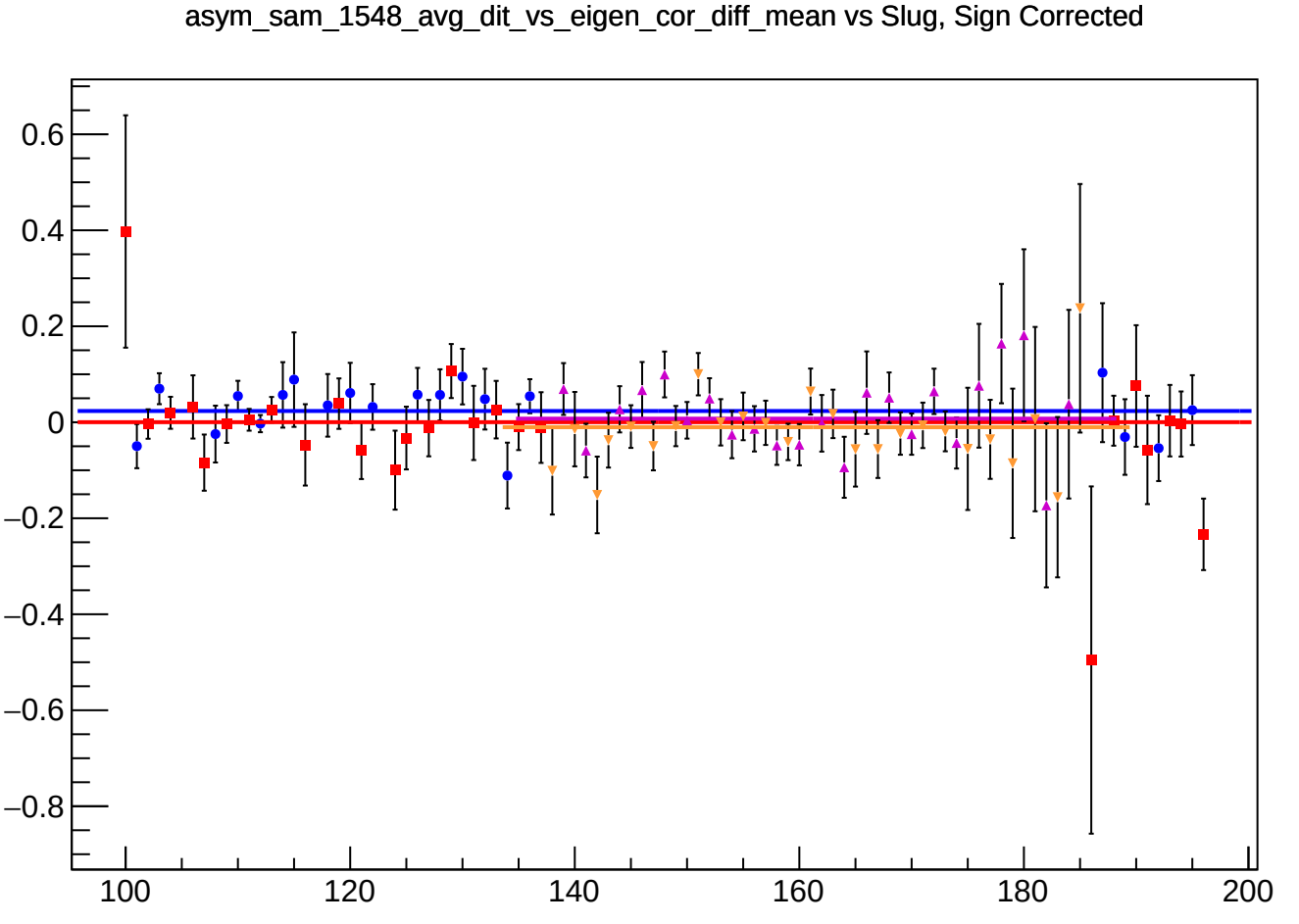
Left: 45.436+/-0.006 $\chi^2$/NDF: 7009219.9/47

Right: 28.247+/-0.005 $\chi^2$/NDF: 8727421.2/45

In: 34.999+/-0.005 $\chi^2$/NDF:9896340.7/42

Out: 36.347+/-0.005 $\chi^2$/NDF:11016359.1/50

All: 35.686+/-0.004 $\chi^2$/NDF: 20945314.4/93




Right In: 0.023+/-0.010 $\chi^2$/NDF: 18.6/19

Left Out: -0.010+/-0.011 $\chi^2$/NDF:18.1/24

Right Out: 0.000+/-0.010 $\chi^2$/NDF: 26.2/25

Left In: 0.008+/-0.011 $\chi^2$/NDF:23.3/22

Left: -0.001+/-0.008 $\chi^2$/NDF: 42.6/47

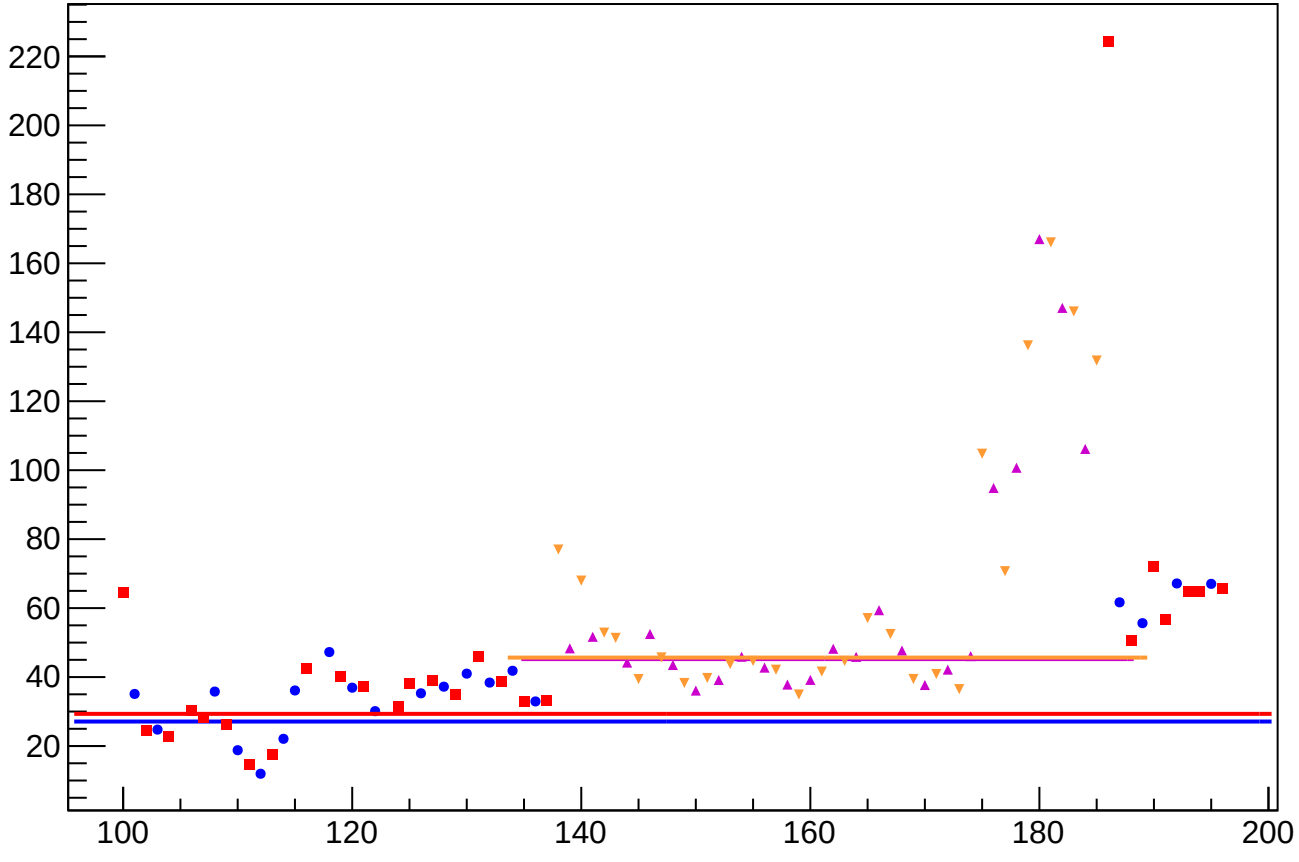
Right: 0.012+/-0.007 $\chi^2$/NDF: 47.5/45

In: 0.017+/-0.008 $\chi^2$/NDF:43.0/42

Out: -0.004+/-0.007 $\chi^2$/NDF:44.7/50

All: 0.006+/-0.005 $\chi^2$/NDF: 91.6/93

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.106+/-0.007 $\chi^2$/NDF: 4063833.8/19

Left Out: 45.650+/-0.008 $\chi^2$/NDF:4015230.2/24

Right Out: 29.334+/-0.007 $\chi^2$/NDF: 4613092.5/25

Left In: 45.217+/-0.008 $\chi^2$/NDF:2992534.4/22

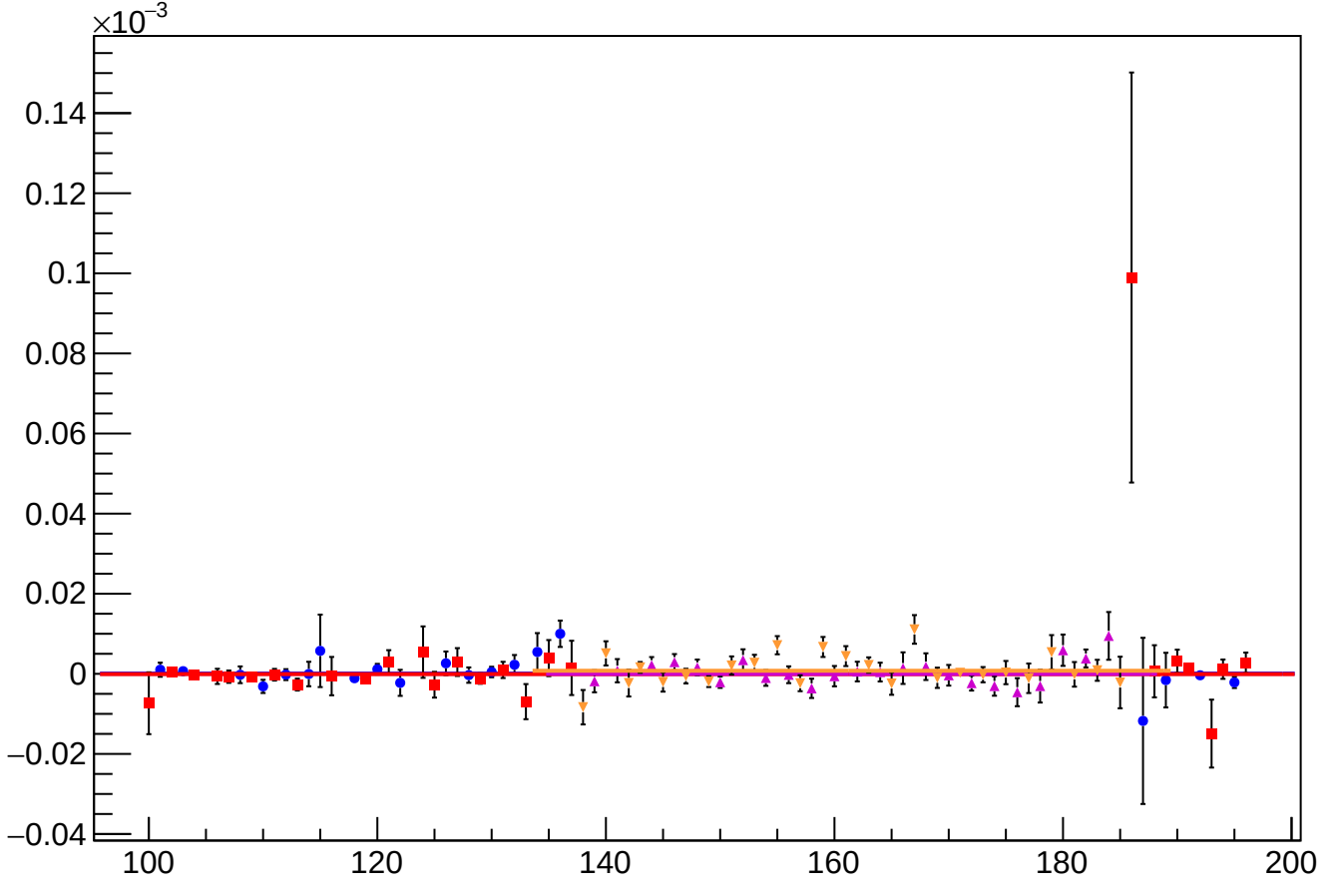
Left: 45.436+/-0.006 $\chi^2$/NDF: 7009219.9/47

Right: 28.247+/-0.005 $\chi^2$/NDF: 8727421.2/45

In: 34.999+/-0.005 $\chi^2$/NDF:9896340.7/42

Out: 36.347+/-0.005 $\chi^2$/NDF:11016359.1/50

All: 35.686+/-0.004 $\chi^2$/NDF: 20945314.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:46.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:24.5/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 72.0/47

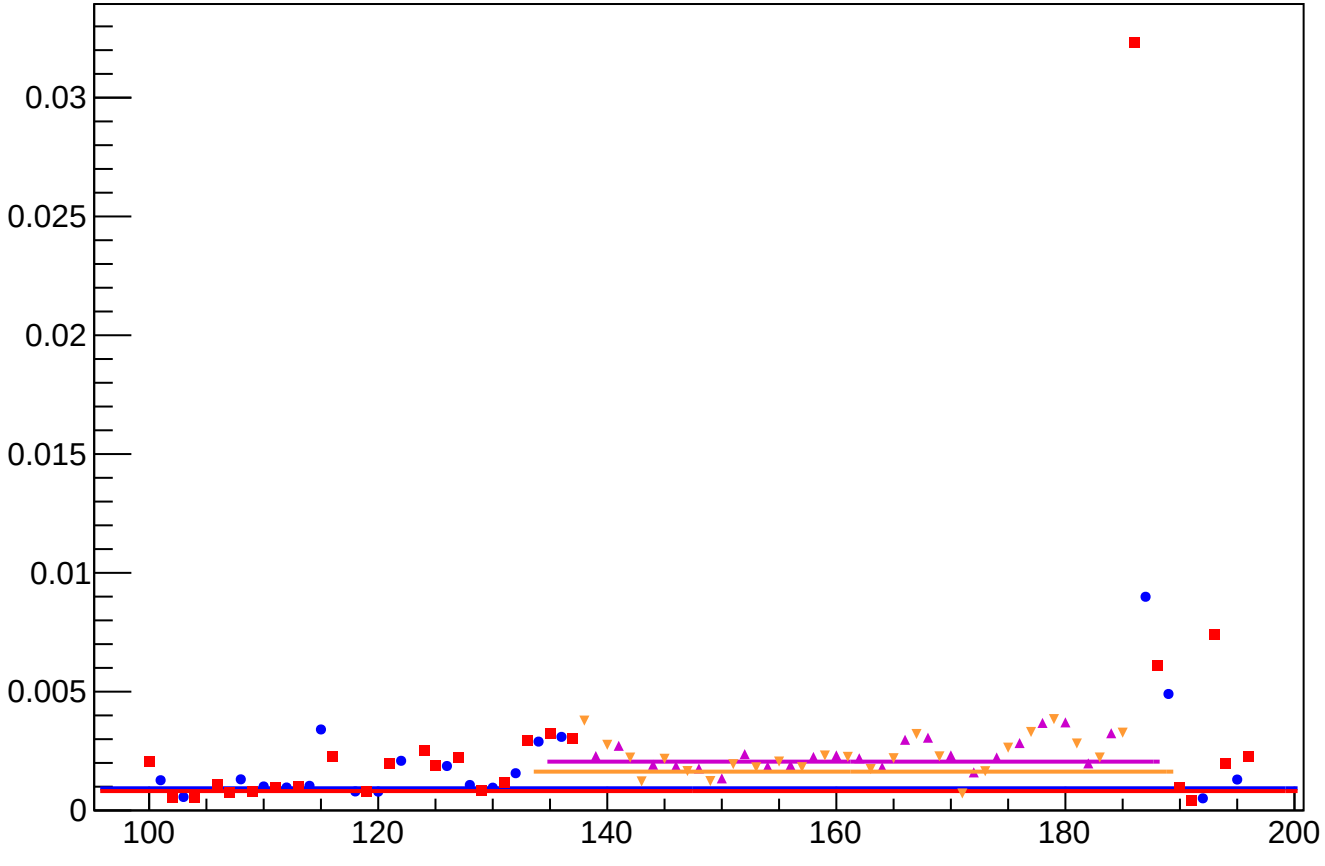
Right: -0.000+/-0.000 $\chi^2$/NDF: 49.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:47.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:75.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 122.7/93

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 4083861.3/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:6495366.7/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 8210122.0/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:2093048.8/22

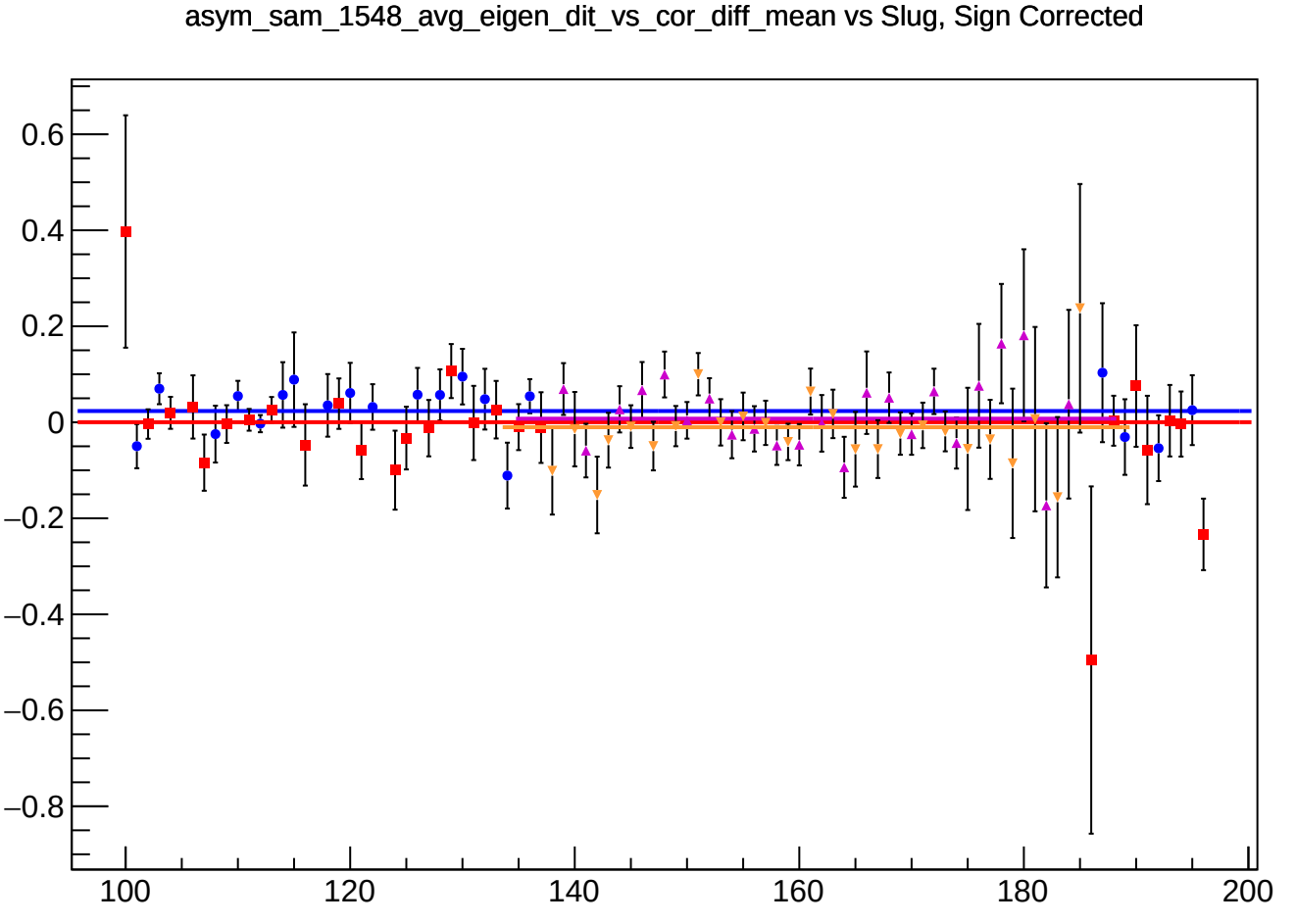
Left: 0.002+/-0.000 $\chi^2$/NDF: 9430299.1/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 12417337.7/45

In: 0.001+/-0.000 $\chi^2$/NDF:12742429.7/42

Out: 0.001+/-0.000 $\chi^2$/NDF:19796646.0/50

All: 0.001+/-0.000 $\chi^2$/NDF: 33152769.6/93




Right In: 0.023+/-0.010 $\chi^2$/NDF: 18.6/19

Left Out: -0.010+/-0.011 $\chi^2$/NDF:18.1/24

Right Out: 0.000+/-0.010 $\chi^2$/NDF: 26.2/25

Left In: 0.008+/-0.011 $\chi^2$/NDF:23.3/22

Left: -0.001+/-0.008 $\chi^2$/NDF: 42.6/47

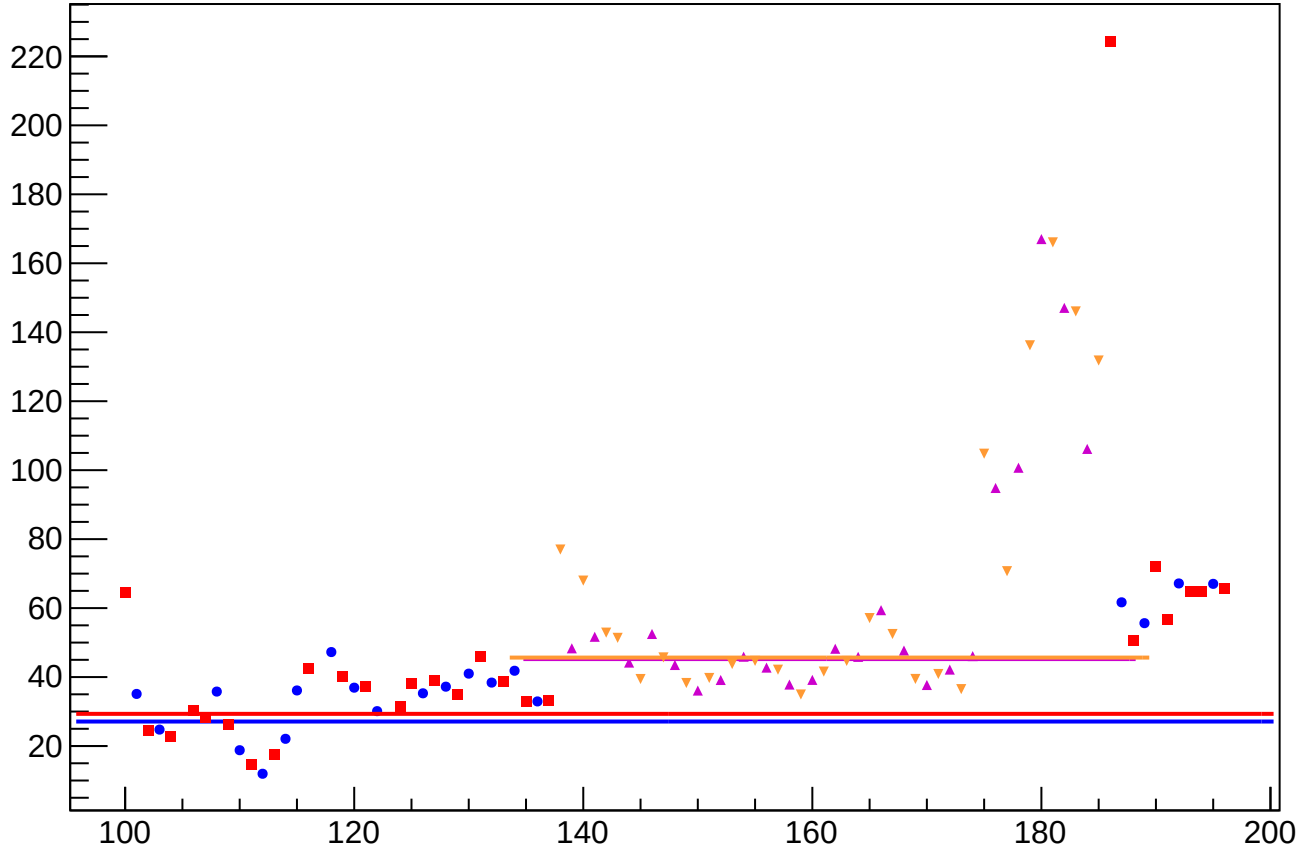
Right: 0.012+/-0.007 $\chi^2$/NDF: 47.5/45

In: 0.017+/-0.008 $\chi^2$/NDF:43.0/42

Out: -0.004+/-0.007 $\chi^2$/NDF:44.7/50

All: 0.006+/-0.005 $\chi^2$/NDF: 91.6/93

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.106+/-0.007 $\chi^2$/NDF: 4064039.7/19

Left Out: 45.651+/-0.008 $\chi^2$/NDF:4015154.4/24

Right Out: 29.333+/-0.007 $\chi^2$/NDF: 4613283.0/25

Left In: 45.218+/-0.008 $\chi^2$/NDF:2992449.1/22

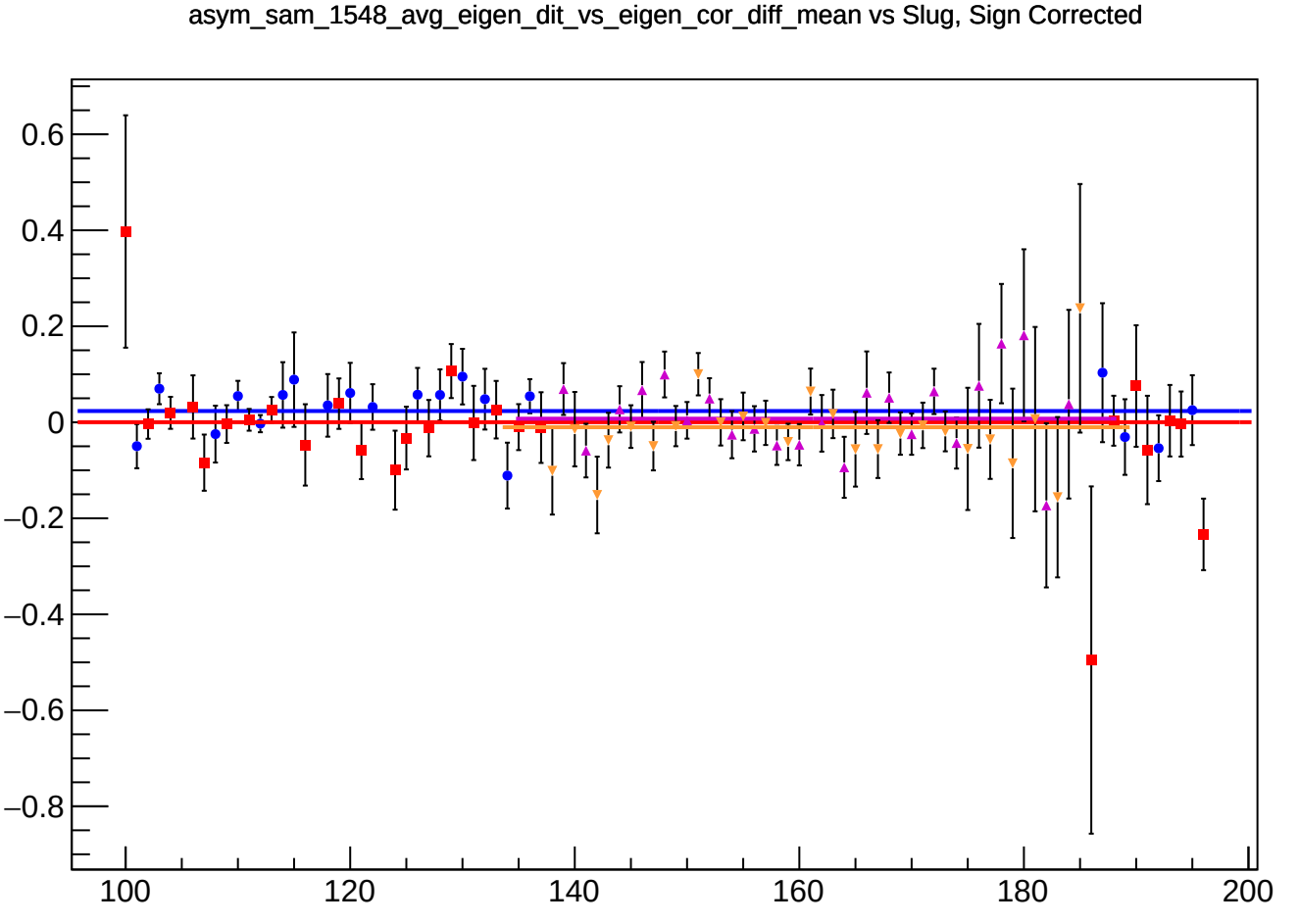
Left: 45.437+/-0.006 $\chi^2$/NDF: 7009058.4/47

Right: 28.247+/-0.005 $\chi^2$/NDF: 8727825.9/45

In: 34.999+/-0.005 $\chi^2$/NDF:9896791.5/42

Out: 36.347+/-0.005 $\chi^2$/NDF:11016713.0/50

All: 35.686+/-0.004 $\chi^2$/NDF: 20946125.9/93




Right In: 0.023+/-0.010 $\chi^2$/NDF: 18.6/19

Left Out: -0.010+/-0.011 $\chi^2$/NDF:18.1/24

Right Out: 0.000+/-0.010 $\chi^2$/NDF: 26.2/25

Left In: 0.008+/-0.011 $\chi^2$/NDF:23.3/22

Left: -0.001+/-0.008 $\chi^2$/NDF: 42.6/47

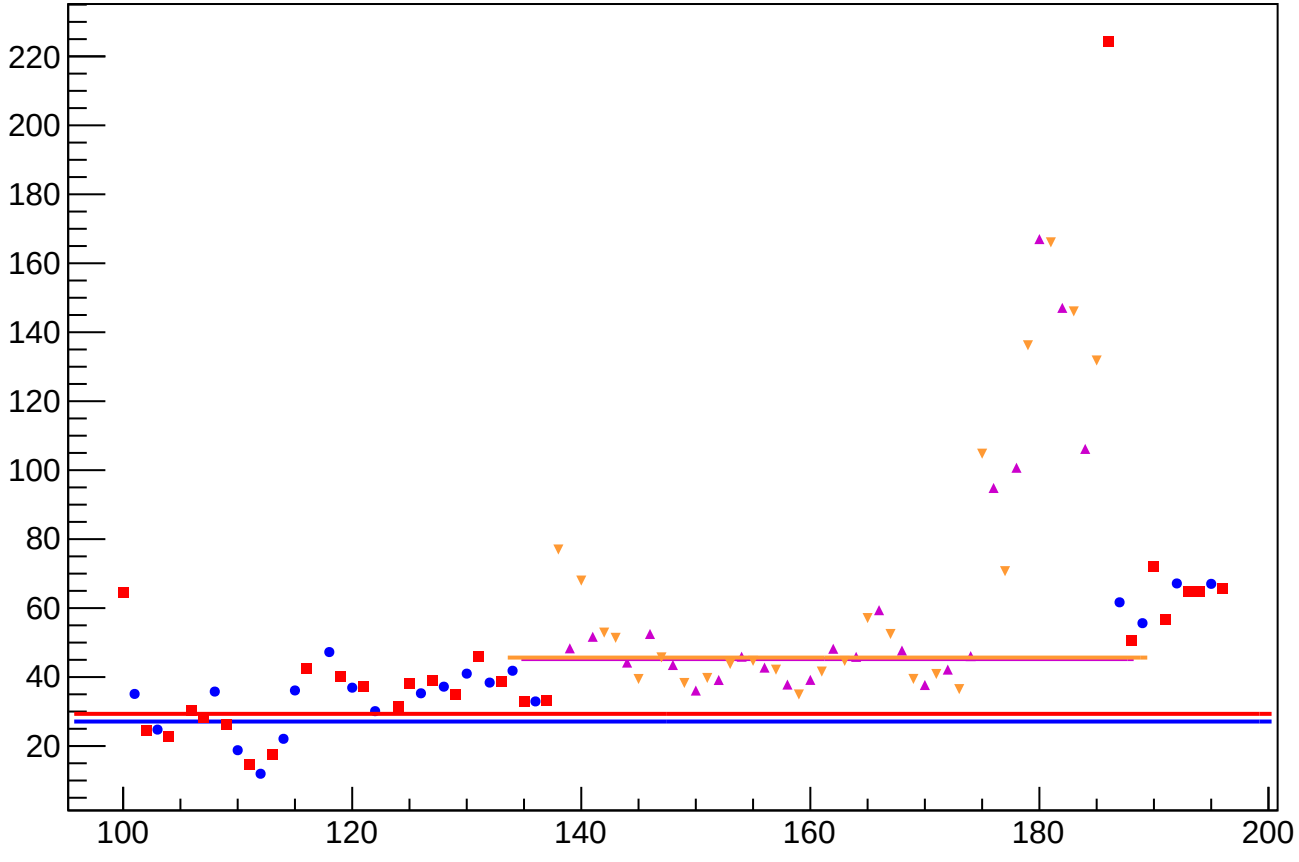
Right: 0.012+/-0.007 $\chi^2$/NDF: 47.5/45

In: 0.017+/-0.008 $\chi^2$/NDF:43.0/42

Out: -0.004+/-0.007 $\chi^2$/NDF:44.7/50

All: 0.006+/-0.005 $\chi^2$/NDF: 91.6/93

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 27.106+/-0.007 $\chi^2$/NDF: 4064039.7/19

Left Out: 45.651+/-0.008 $\chi^2$/NDF:4015154.4/24

Right Out: 29.333+/-0.007 $\chi^2$/NDF: 4613283.0/25

Left In: 45.218+/-0.008 $\chi^2$/NDF:2992449.1/22

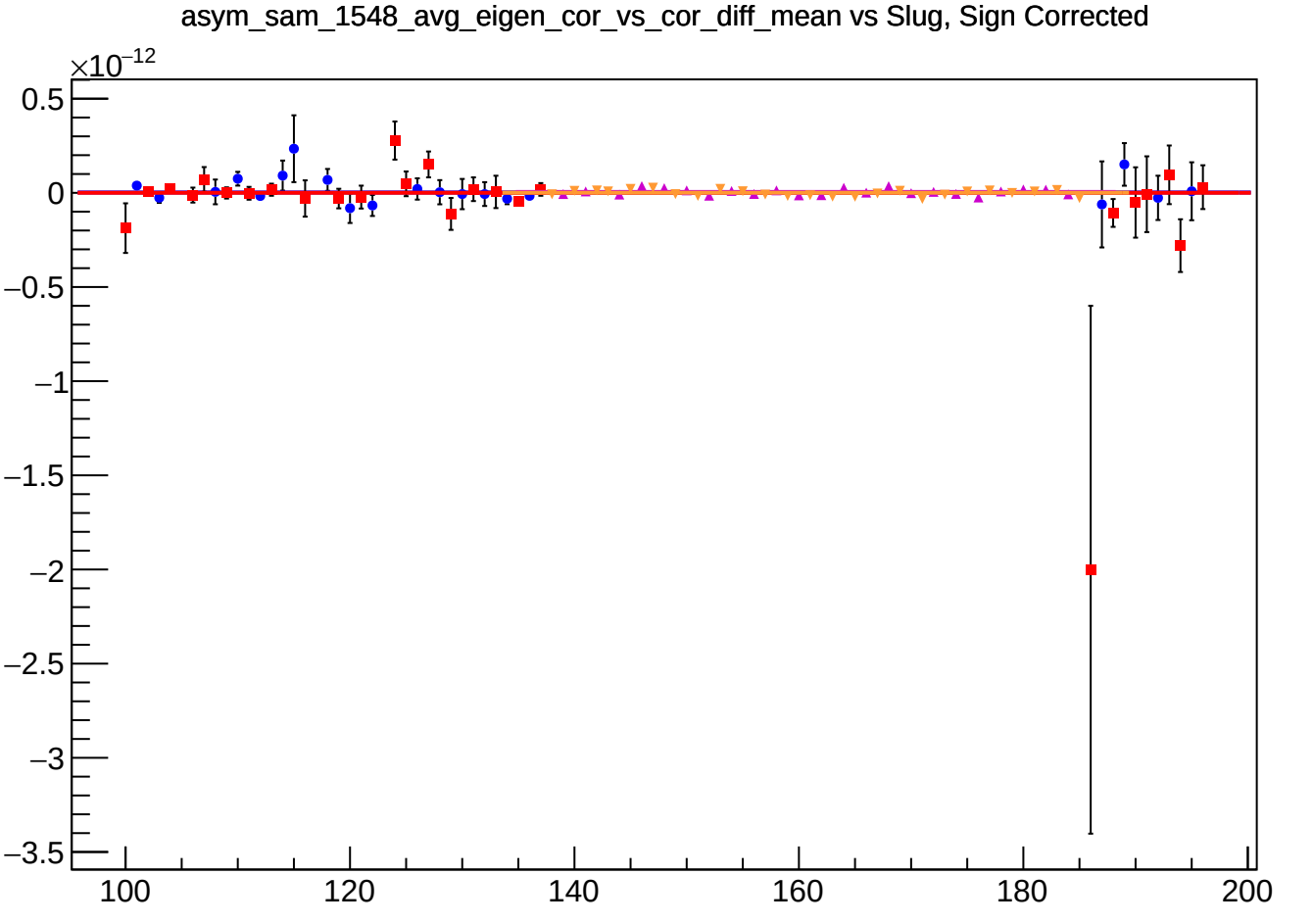
Left: 45.437+/-0.006 $\chi^2$/NDF: 7009058.4/47

Right: 28.247+/-0.005 $\chi^2$/NDF: 8727825.9/45

In: 34.999+/-0.005 $\chi^2$/NDF:9896791.5/42

Out: 36.347+/-0.005 $\chi^2$/NDF:11016713.0/50

All: 35.686+/-0.004 $\chi^2$/NDF: 20946125.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:25.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 32.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:23.7/22

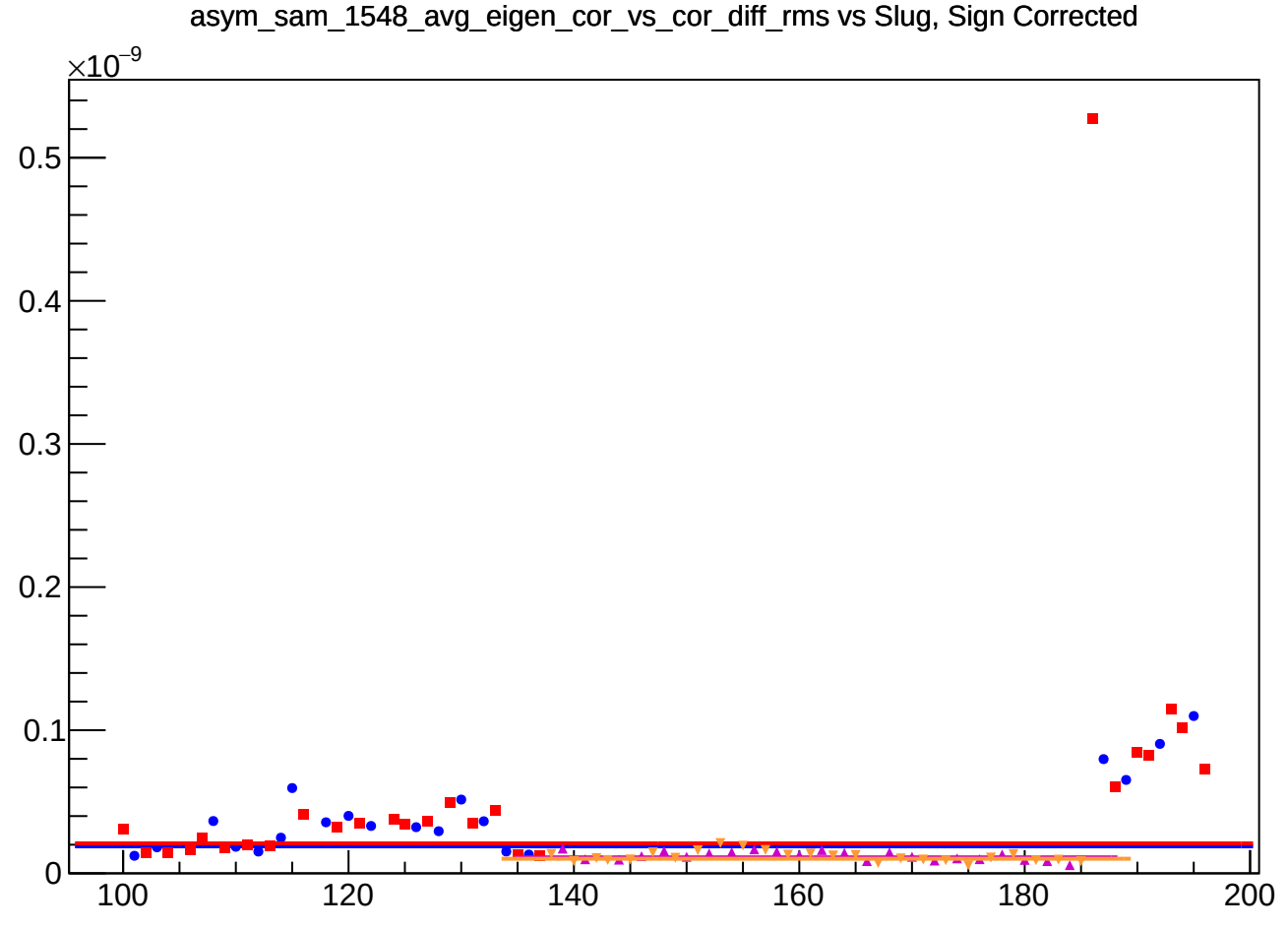
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 52.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:57.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 102.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3819803.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2257651.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4755769.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1536588.2/22

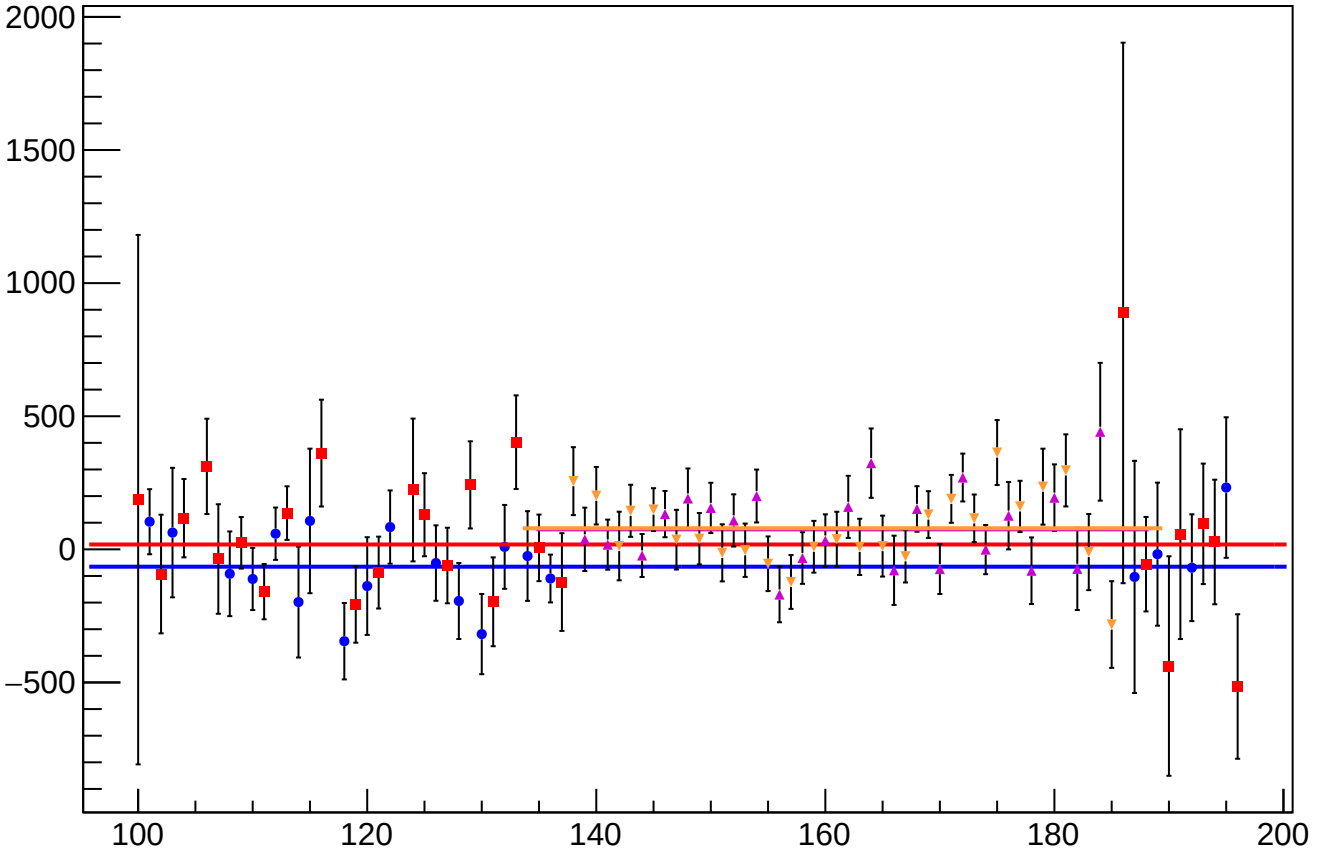
Left: 0.000+/-0.000 $\chi^2$/NDF: 3895034.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 8631418.8/45

In: 0.000+/-0.000 $\chi^2$/NDF:6762725.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9594622.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16447394.8/93




Right In: -65.189+/-33.923 $\chi^2$/NDF: 15.4/19

Left Out: 79.098+/-21.102 $\chi^2$/NDF:32.0/24

Right Out: 18.266+/-32.458 $\chi^2$/NDF: 30.3/25

Left In: 75.048+/-21.837 $\chi^2$/NDF:32.6/22

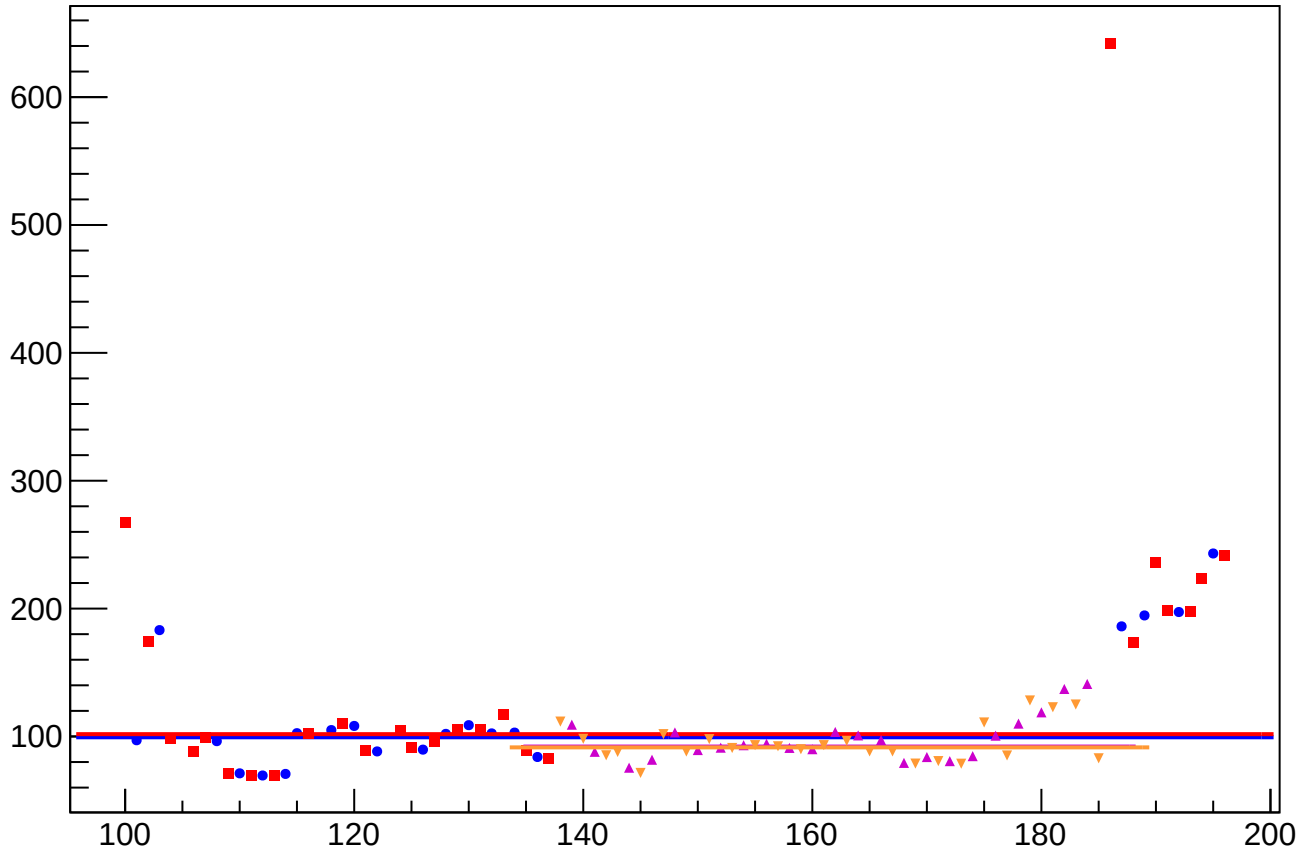
Left: 77.142+/-15.175 $\chi^2$/NDF: 64.6/47

Right: -21.620+/-23.452 $\chi^2$/NDF: 48.8/45

In: 33.963+/-18.362 $\chi^2$/NDF:60.1/42

Out: 61.024+/-17.692 $\chi^2$/NDF:64.7/50

All: 47.996+/-12.740 $\chi^2$/NDF: 125.9/93




Right In: 99.348+/-0.024 $\chi^2$/NDF: 2078884.3/19

Left Out: 91.462+/-0.015 $\chi^2$/NDF:751213.9/24

Right Out: 101.805+/-0.023 $\chi^2$/NDF: 3641058.6/25

Left In: 92.100+/-0.015 $\chi^2$/NDF:699590.1/22

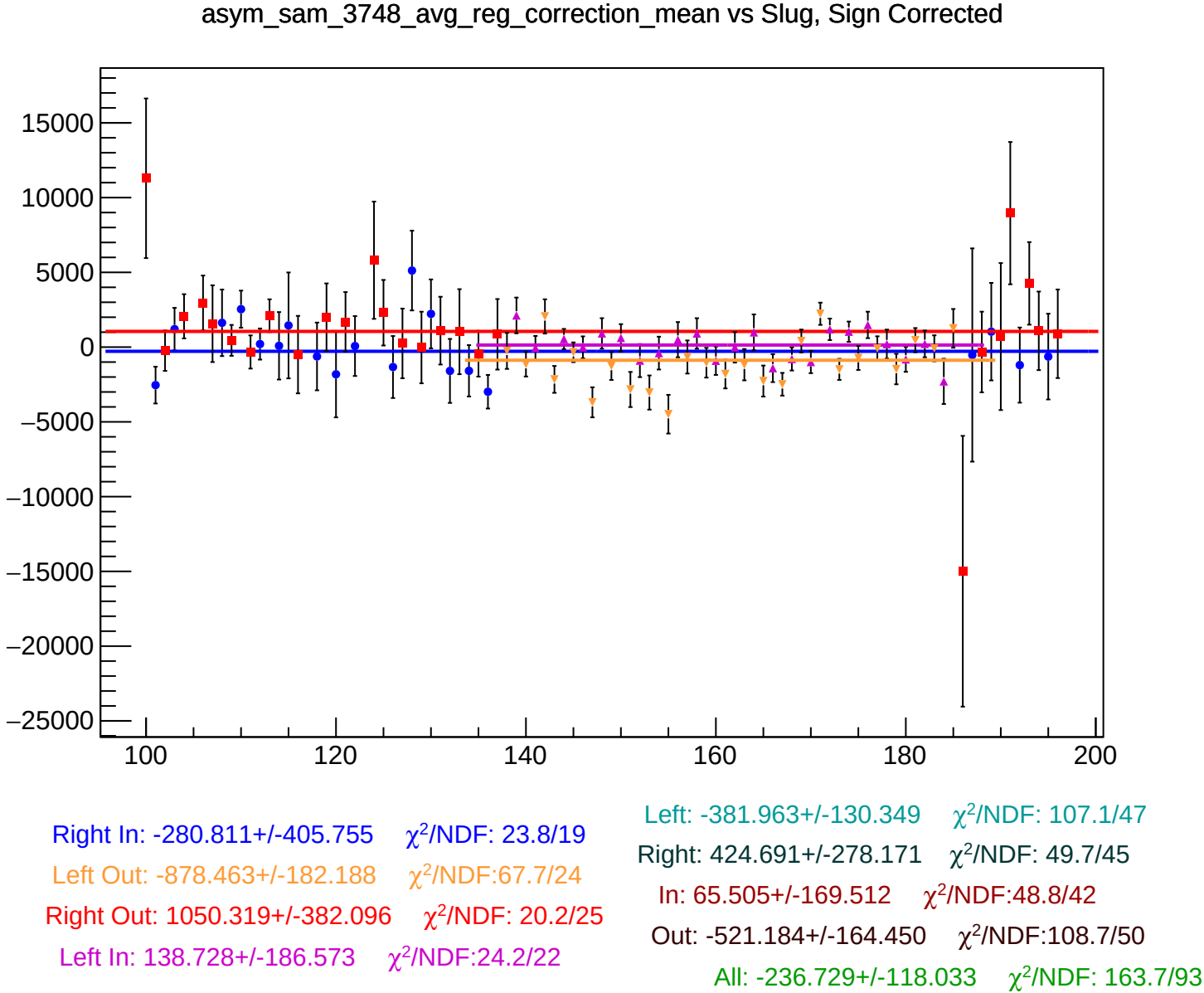
Left: 91.770+/-0.011 $\chi^2$/NDF: 1451688.8/47

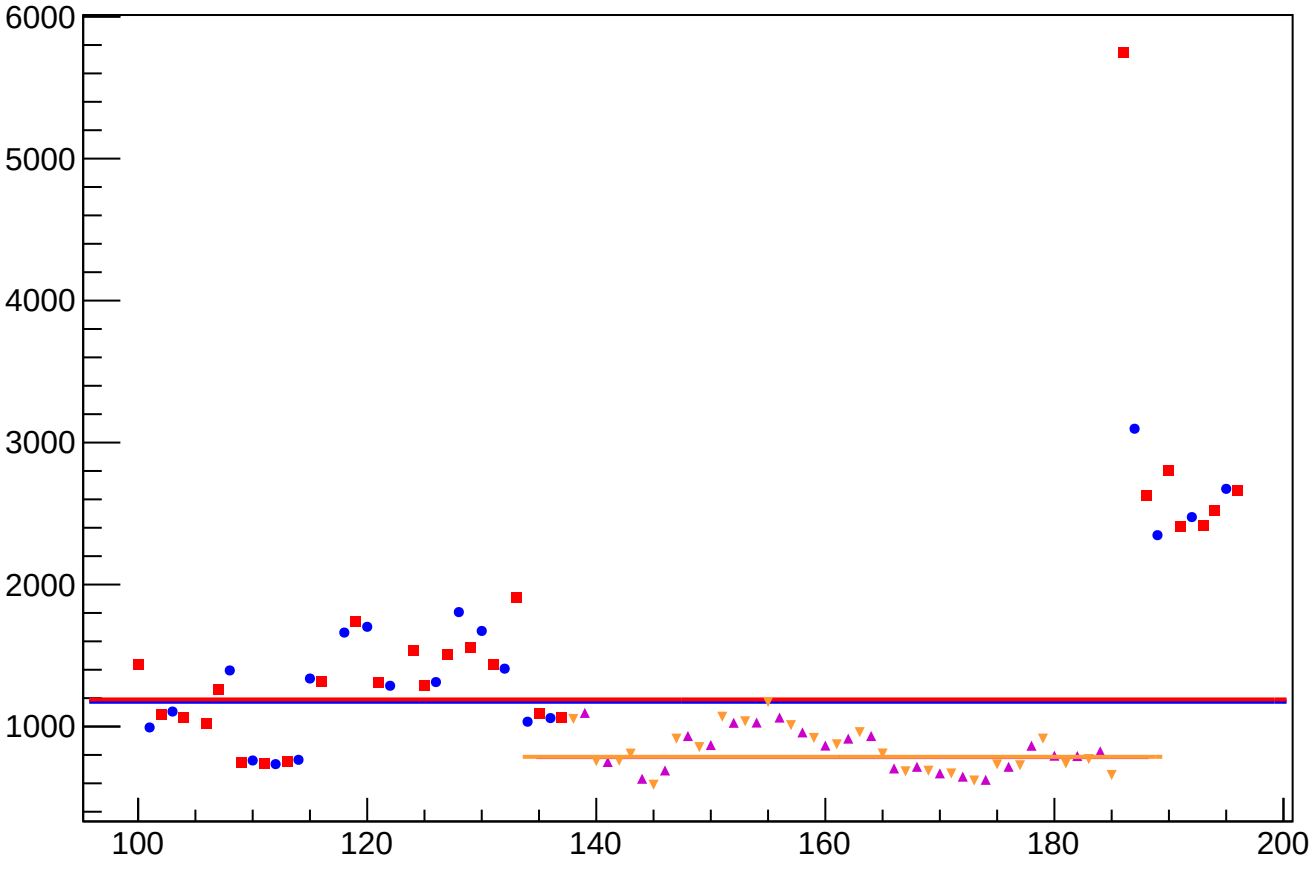
Right: 100.631+/-0.017 $\chi^2$/NDF: 5725418.9/45

In: 94.224+/-0.013 $\chi^2$/NDF:2843021.2/42

Out: 94.535+/-0.013 $\chi^2$/NDF:4535027.8/50

All: 94.385+/-0.009 $\chi^2$/NDF: 7378346.3/93


asym_sam_3748_avg_reg_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
120
140
160
180
200
Right In: -280.811+/-405.755 χ²/NDF: 23.8/19
Left Out: -878.463+/-182.188 χ²/NDF:67.7/24
Right Out: 1050.319+/-382.096 χ²/NDF: 20.2/25
Left In: 138.728+/-186.573 χ²/NDF:24.2/22
Left: -381.963+/-130.349 χ²/NDF: 107.1/47
Right: 424.691+/-278.171 χ²/NDF: 49.7/45
In: 65.505+/-169.512 χ²/NDF:48.8/42
Out: -521.184+/-164.450 χ²/NDF:108.7/50
All: -236.729+/-118.033 χ²/NDF: 163.7/93




Right In: 1174.480+/-0.287 $\chi^2$/NDF: 2641761.0/19

Left Out: 786.758+/-0.129 $\chi^2$/NDF:1210893.0/24

Right Out: 1190.821+/-0.270 $\chi^2$/NDF: 4276607.1/25

Left In: 784.833+/-0.132 $\chi^2$/NDF:1063747.2/22

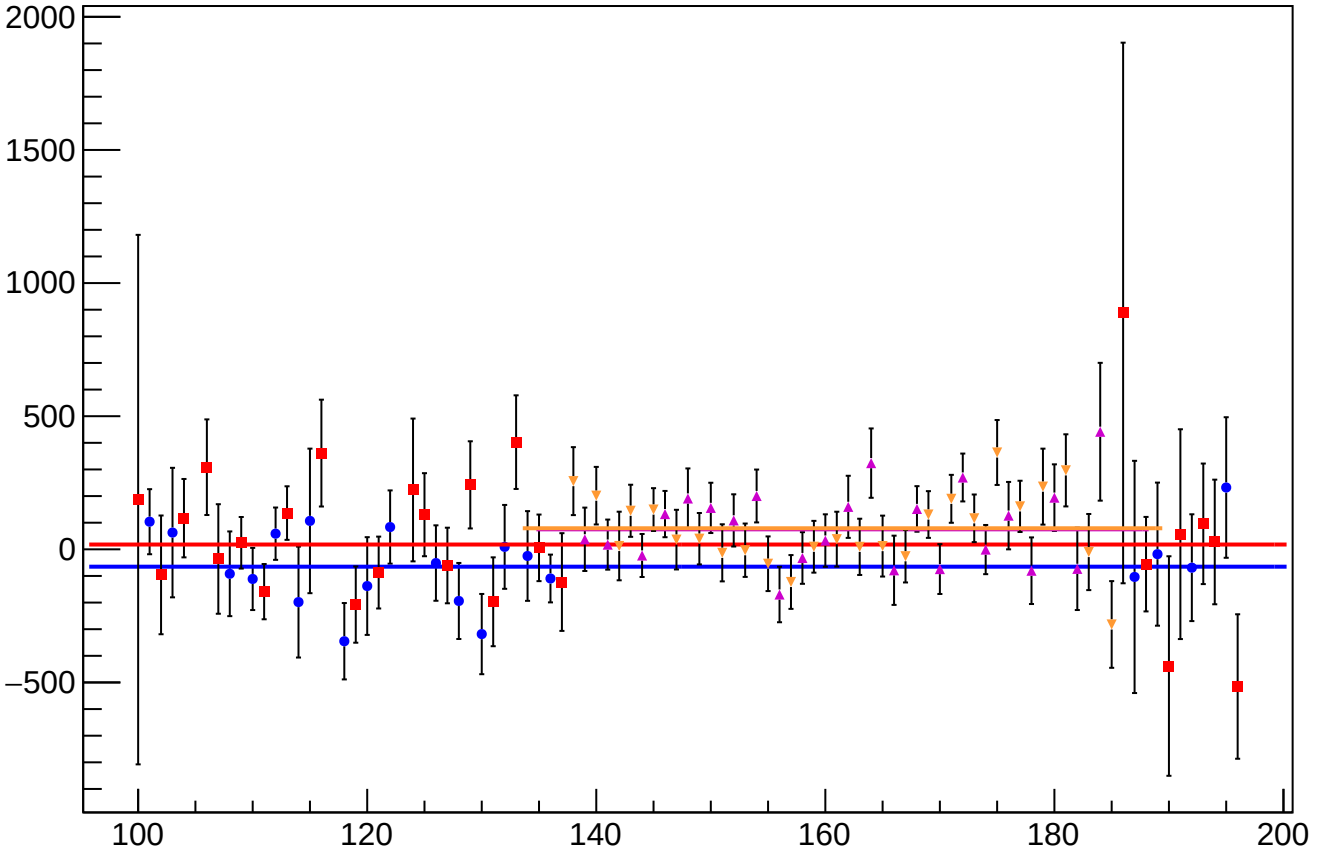
Left: 785.819+/-0.092 $\chi^2$/NDF: 2274749.2/47

Right: 1183.141+/-0.197 $\chi^2$/NDF: 6920087.4/45

In: 852.838+/-0.120 $\chi^2$/NDF:5227963.1/42

Out: 861.605+/-0.116 $\chi^2$/NDF:7309778.2/50

All: 857.355+/-0.083 $\chi^2$/NDF: 12540497.0/93




Right In: -65.199+/-33.923 $\chi^2$/NDF: 15.4/19

Left Out: 79.106+/-21.102 $\chi^2$/NDF:32.0/24

Right Out: 18.036+/-32.461 $\chi^2$/NDF: 30.2/25

Left In: 75.049+/-21.837 $\chi^2$/NDF:32.6/22

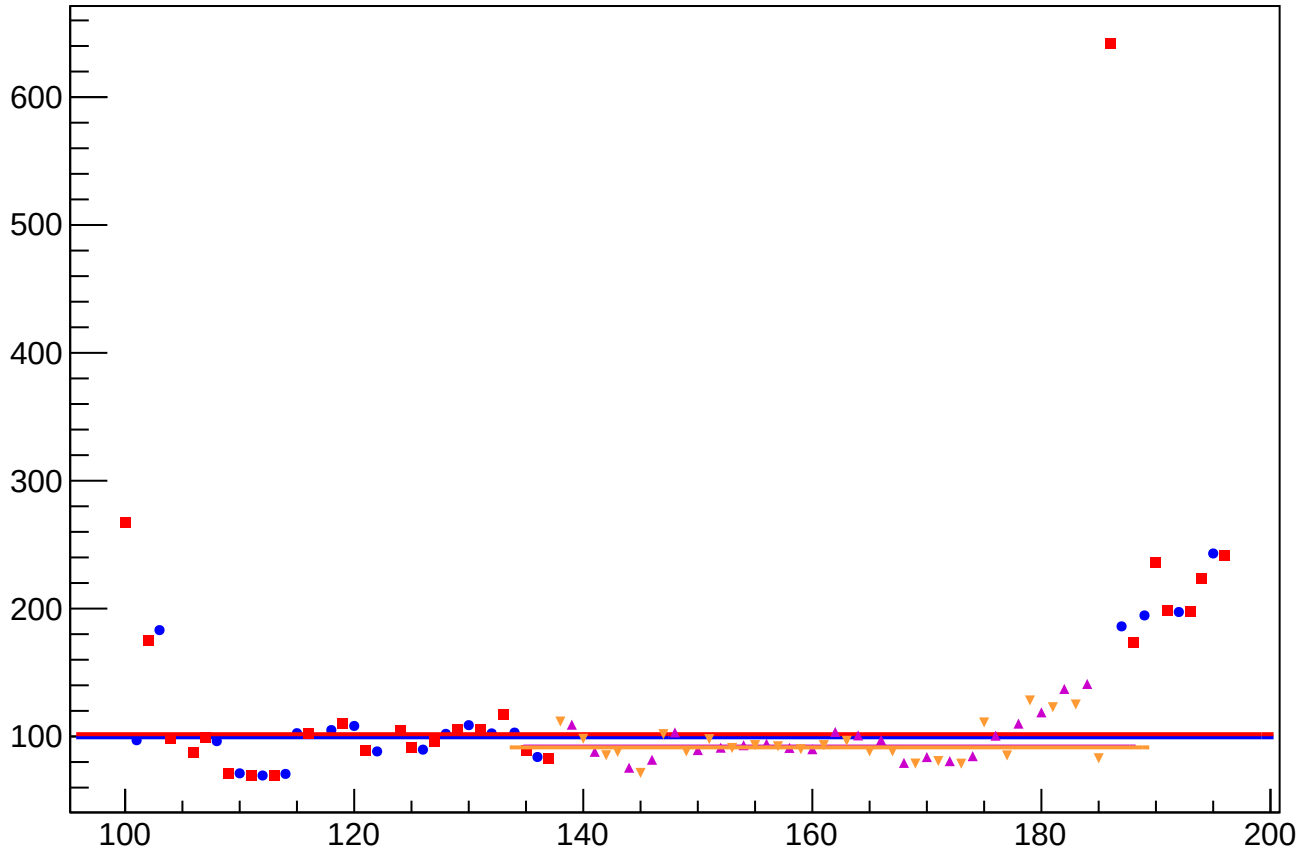
Left: 77.147+/-15.175 $\chi^2$/NDF: 64.6/47

Right: -21.750+/-23.453 $\chi^2$/NDF: 48.7/45

In: 33.960+/-18.362 $\chi^2$/NDF:60.1/42

Out: 60.965+/-17.692 $\chi^2$/NDF:64.7/50

All: 47.964+/-12.740 $\chi^2$/NDF: 125.9/93




Right In: 99.348+/-0.024 $\chi^2$/NDF: 2078887.4/19

Left Out: 91.462+/-0.015 $\chi^2$/NDF:751213.9/24

Right Out: 101.765+/-0.023 $\chi^2$/NDF: 3643478.9/25

Left In: 92.100+/-0.015 $\chi^2$/NDF:699590.1/22

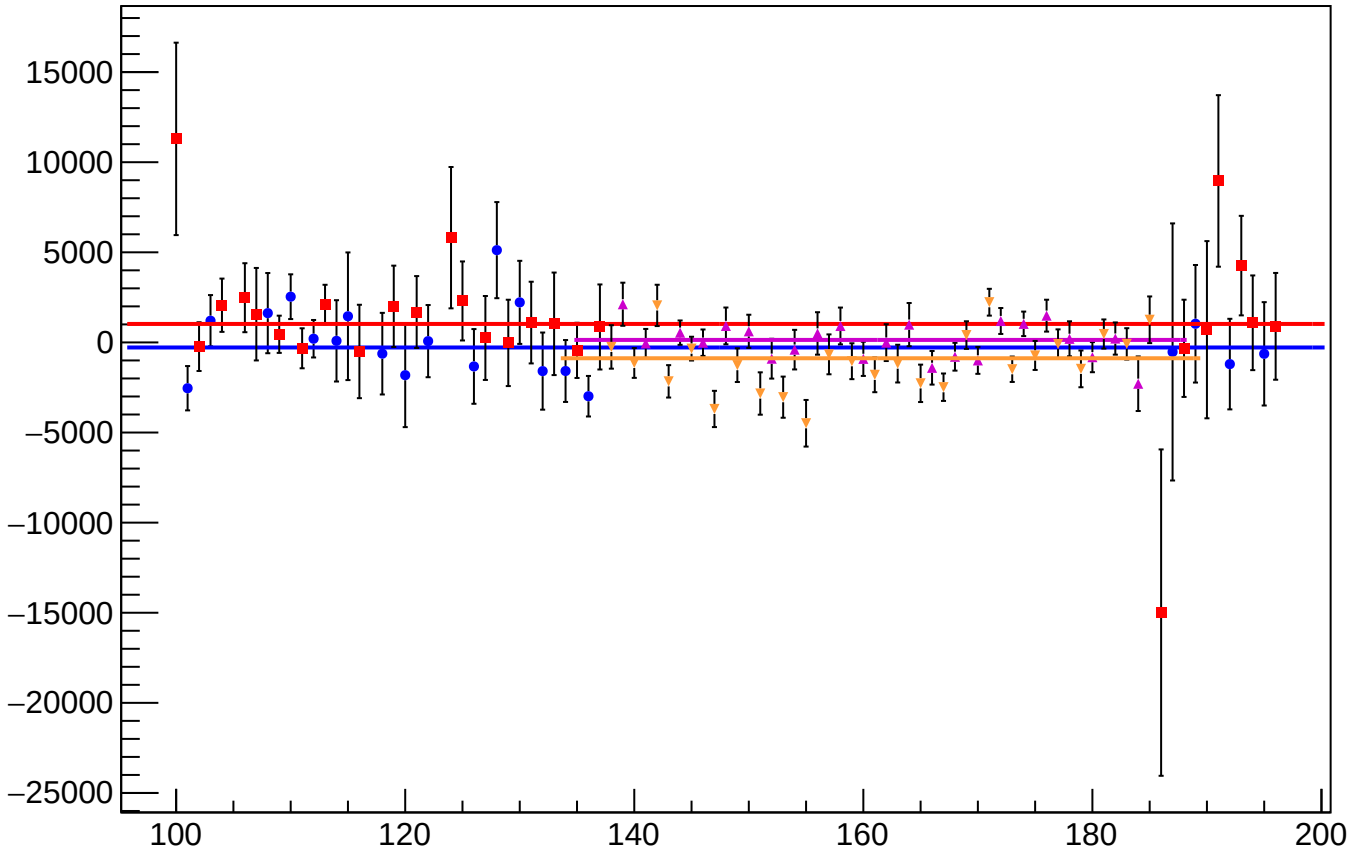
Left: 91.770+/-0.011 $\chi^2$/NDF: 1451688.9/47

Right: 100.610+/-0.017 $\chi^2$/NDF: 5727664.7/45

In: 94.224+/-0.013 $\chi^2$/NDF:2843024.4/42

Out: 94.522+/-0.013 $\chi^2$/NDF:4536323.4/50

All: 94.379+/-0.009 $\chi^2$/NDF: 7379621.9/93




Right In: -280.830+/-405.758 $\chi^2$/NDF: 23.8/19

Left Out: -878.453+/-182.188 $\chi^2$/NDF:67.7/24

Right Out: 1025.382+/-382.796 $\chi^2$/NDF: 19.7/25

Left In: 138.730+/-186.573 $\chi^2$/NDF:24.2/22

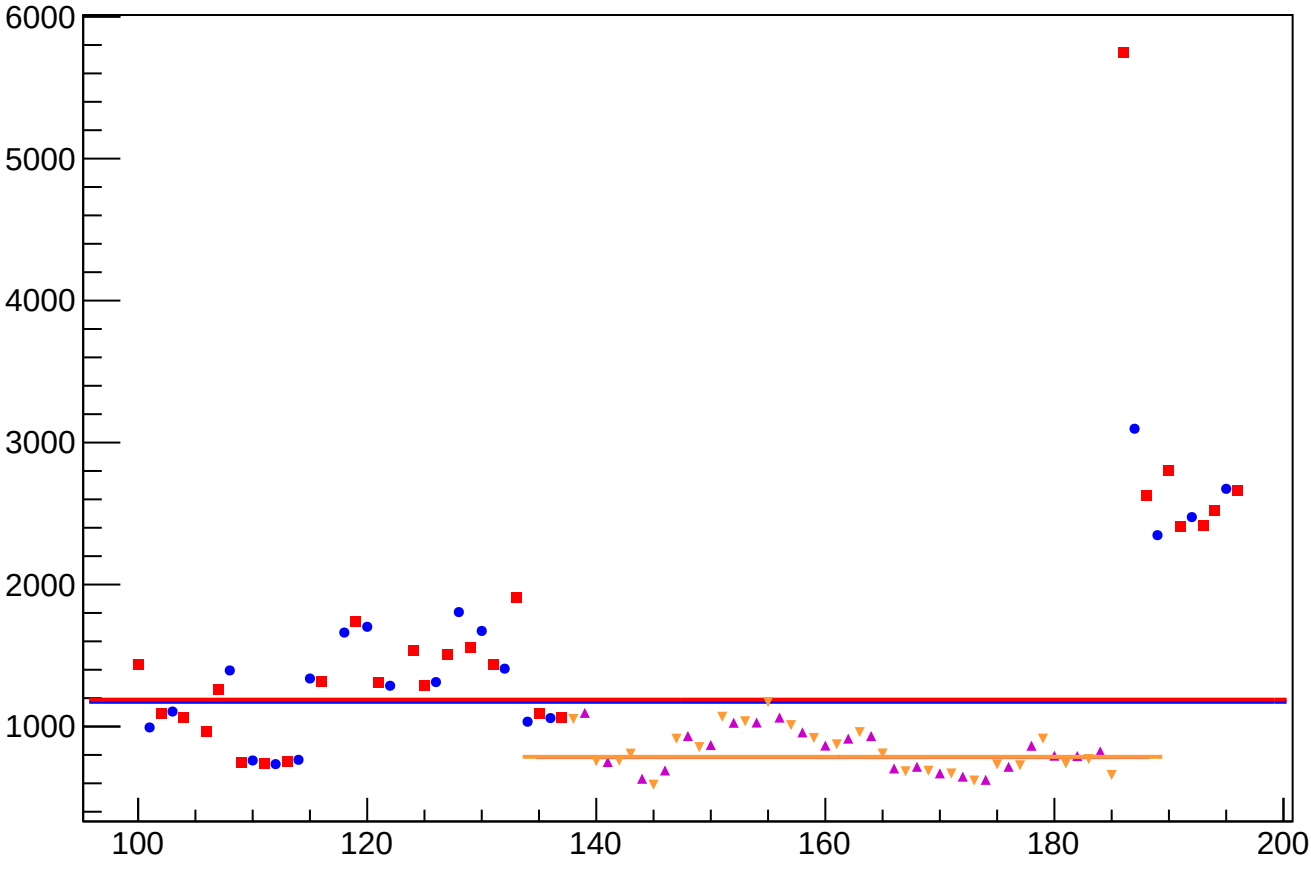
Left: -381.957+/-130.349 $\chi^2$/NDF: 107.1/47

Right: 410.279+/-278.442 $\chi^2$/NDF: 48.9/45

In: 65.505+/-169.512 $\chi^2$/NDF:48.8/42

Out: -526.846+/-164.506 $\chi^2$/NDF:107.6/50

All: -239.546+/-118.053 $\chi^2$/NDF: 162.7/93




Right In: 1174.489+/-0.287 $\chi^2$/NDF: 2641747.7/19

Left Out: 786.758+/-0.129 $\chi^2$/NDF:1210893.0/24

Right Out: 1189.213+/-0.271 $\chi^2$/NDF: 4287165.8/25

Left In: 784.833+/-0.132 $\chi^2$/NDF:1063746.9/22

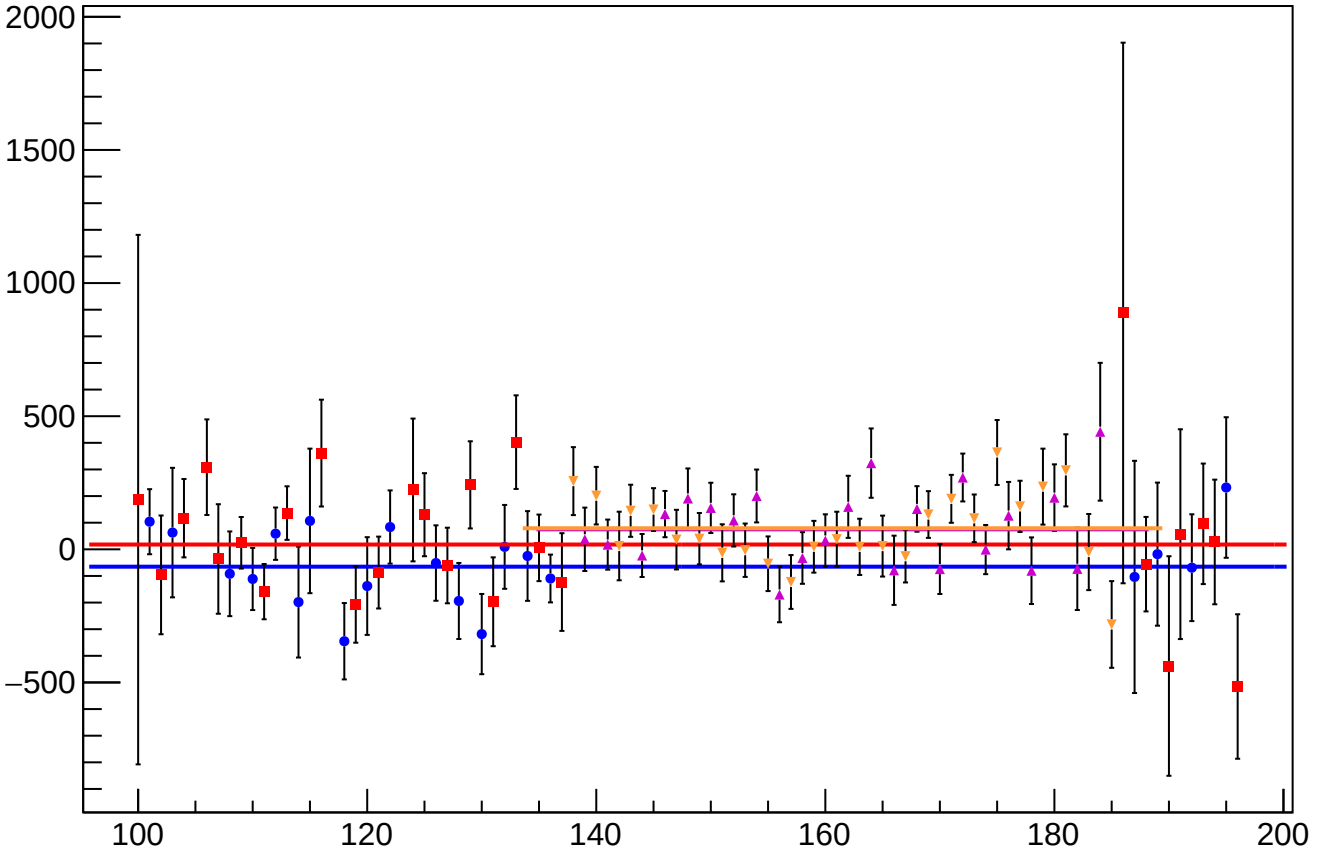
Left: 785.819+/-0.092 $\chi^2$/NDF: 2274748.8/47

Right: 1182.279+/-0.197 $\chi^2$/NDF: 6930306.8/45

In: 852.839+/-0.120 $\chi^2$/NDF:5228003.1/42

Out: 861.085+/-0.116 $\chi^2$/NDF:7300473.0/50

All: 857.086+/-0.083 $\chi^2$/NDF: 12530913.0/93




Right In: -65.199+/-33.923 $\chi^2$/NDF: 15.4/19

Left Out: 79.106+/-21.102 $\chi^2$/NDF:32.0/24

Right Out: 18.036+/-32.461 $\chi^2$/NDF: 30.2/25

Left In: 75.049+/-21.837 $\chi^2$/NDF:32.6/22

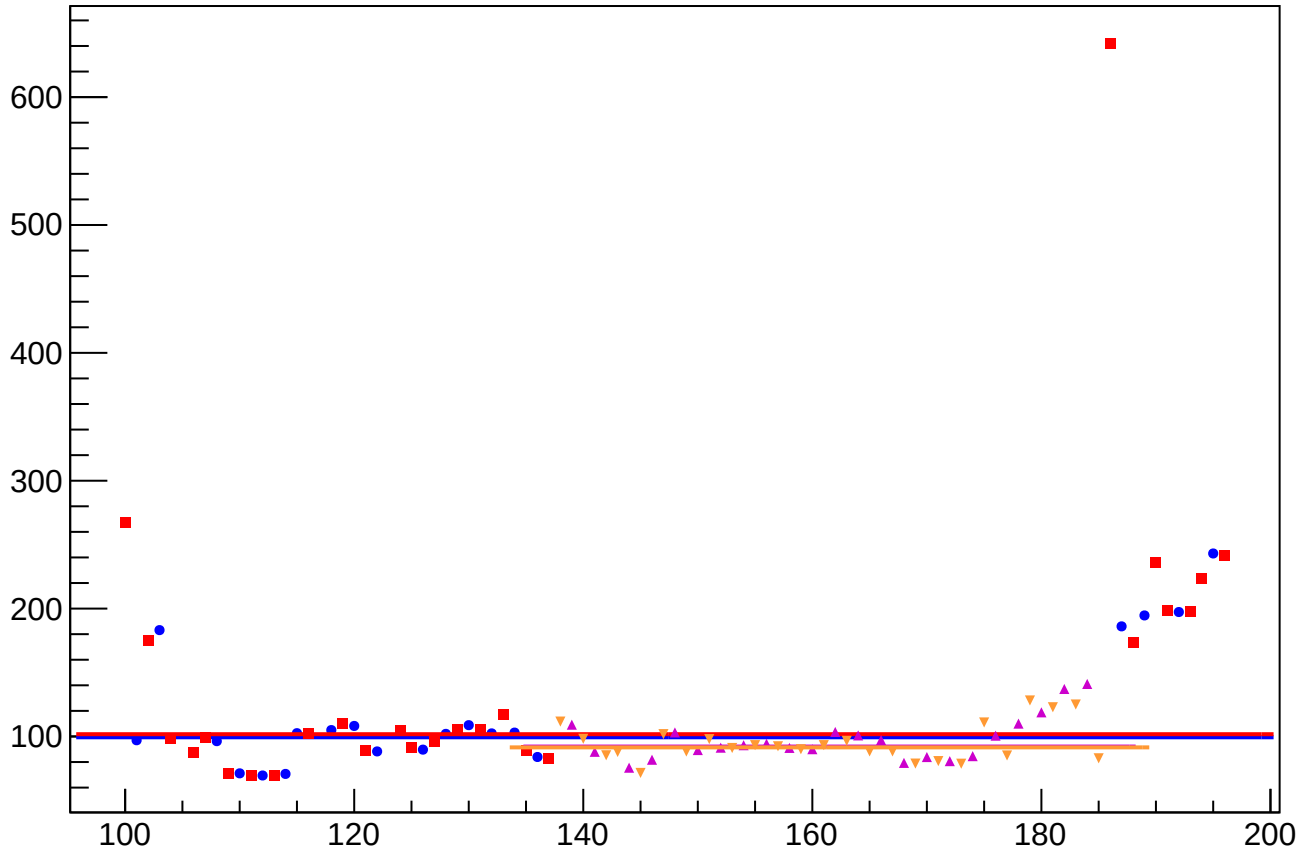
Left: 77.147+/-15.175 $\chi^2$/NDF: 64.6/47

Right: -21.750+/-23.453 $\chi^2$/NDF: 48.7/45

In: 33.960+/-18.362 $\chi^2$/NDF:60.1/42

Out: 60.965+/-17.692 $\chi^2$/NDF:64.7/50

All: 47.964+/-12.740 $\chi^2$/NDF: 125.9/93




Right In: 99.348+/-0.024 $\chi^2$/NDF: 2078887.4/19

Left Out: 91.462+/-0.015 $\chi^2$/NDF:751213.9/24

Right Out: 101.765+/-0.023 $\chi^2$/NDF: 3643478.9/25

Left In: 92.100+/-0.015 $\chi^2$/NDF:699590.1/22

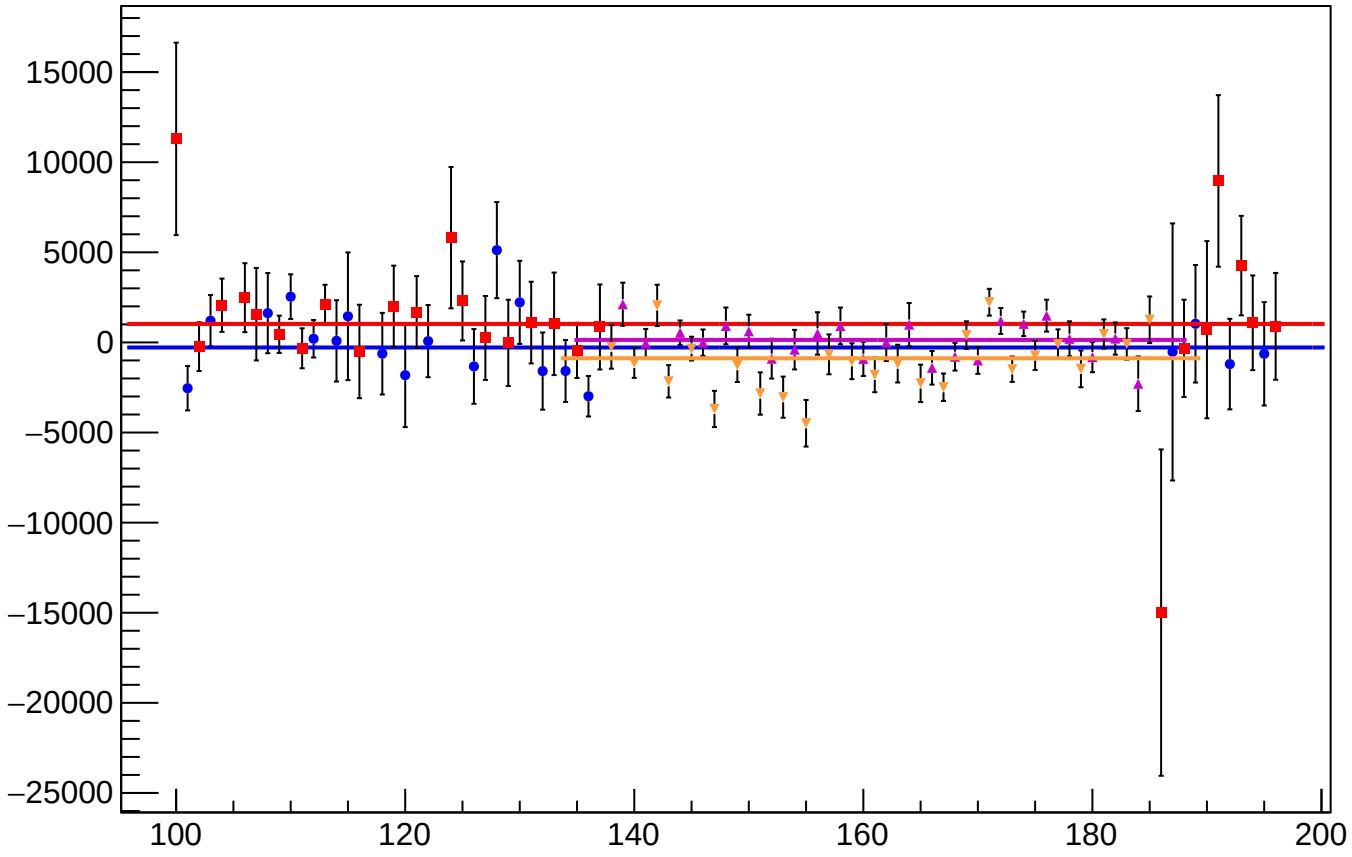
Left: 91.770+/-0.011 $\chi^2$/NDF: 1451688.9/47

Right: 100.610+/-0.017 $\chi^2$/NDF: 5727664.7/45

In: 94.224+/-0.013 $\chi^2$/NDF:2843024.4/42

Out: 94.522+/-0.013 $\chi^2$/NDF:4536323.4/50

All: 94.379+/-0.009 $\chi^2$/NDF: 7379621.9/93




Right In: -280.830+/-405.758 $\chi^2$/NDF: 23.8/19

Left Out: -878.453+/-182.188 $\chi^2$/NDF:67.7/24

Right Out: 1025.382+/-382.796 $\chi^2$/NDF: 19.7/25

Left In: 138.730+/-186.573 $\chi^2$/NDF:24.2/22

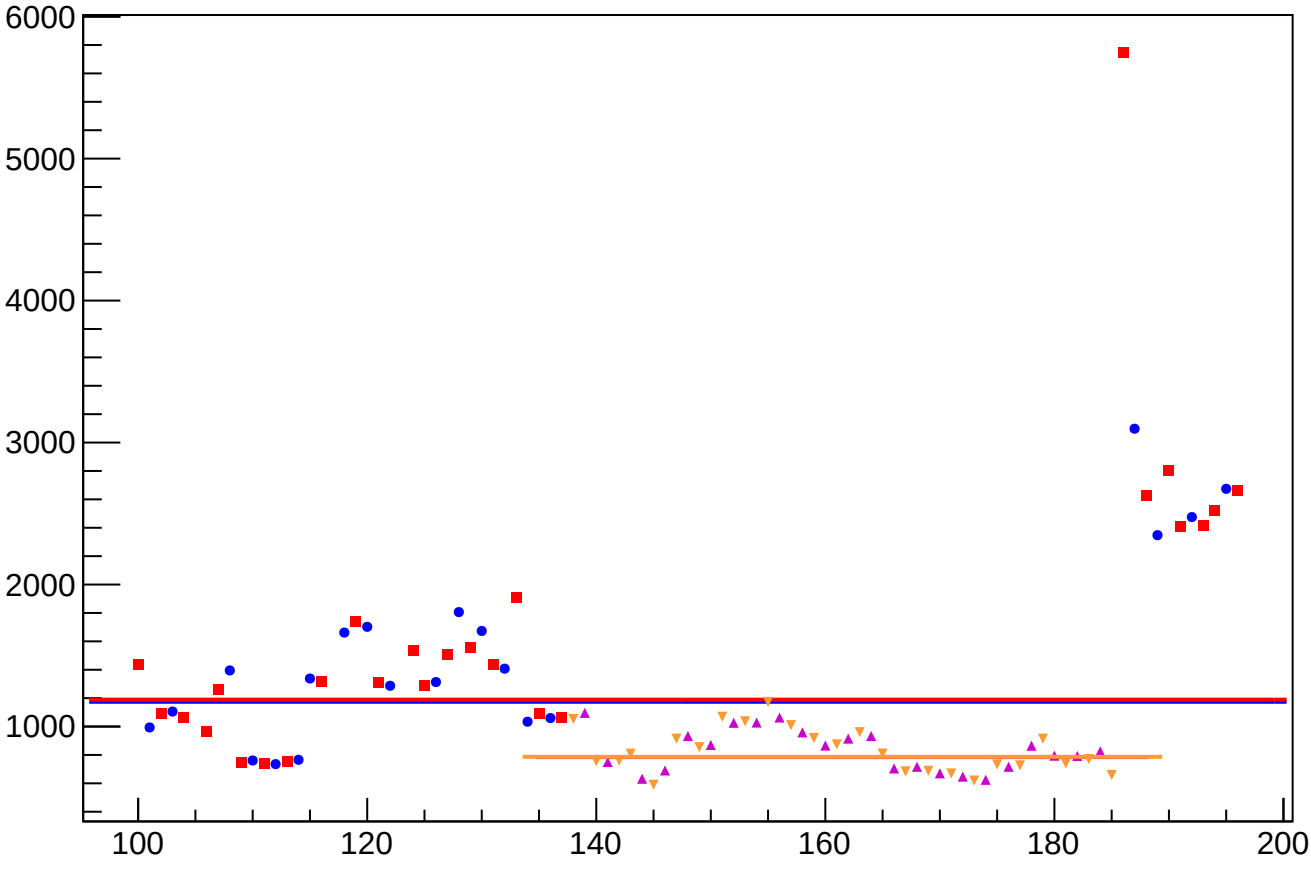
Left: -381.957+/-130.349 $\chi^2$/NDF: 107.1/47

Right: 410.279+/-278.442 $\chi^2$/NDF: 48.9/45

In: 65.505+/-169.512 $\chi^2$/NDF:48.8/42

Out: -526.846+/-164.506 $\chi^2$/NDF:107.6/50

All: -239.546+/-118.053 $\chi^2$/NDF: 162.7/93




Right In: 1174.489+/-0.287 $\chi^2$/NDF: 2641747.7/19

Left Out: 786.758+/-0.129 $\chi^2$/NDF:1210893.0/24

Right Out: 1189.213+/-0.271 $\chi^2$/NDF: 4287165.8/25

Left In: 784.833+/-0.132 $\chi^2$/NDF:1063746.9/22

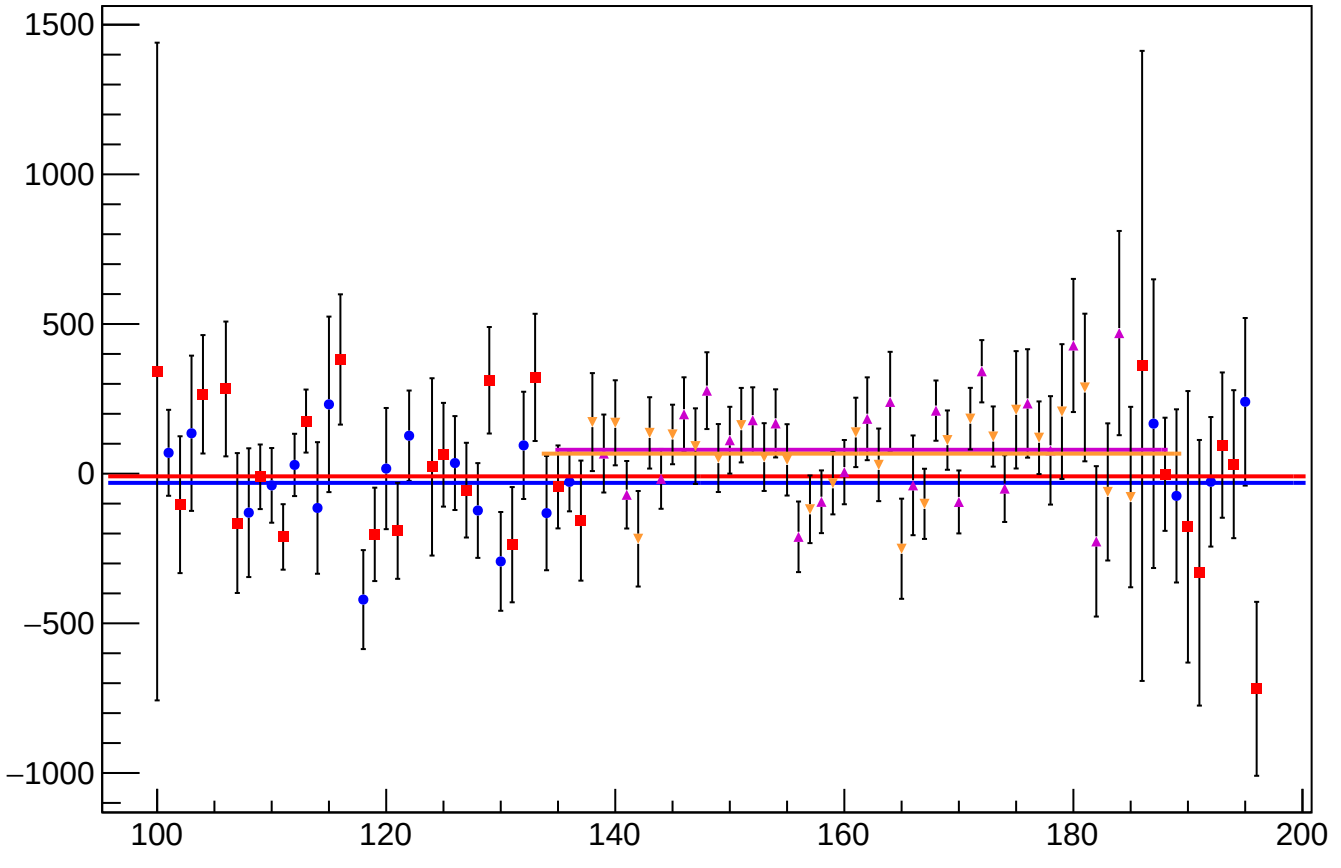
Left: 785.819+/-0.092 $\chi^2$/NDF: 2274748.8/47

Right: 1182.279+/-0.197 $\chi^2$/NDF: 6930306.8/45

In: 852.839+/-0.120 $\chi^2$/NDF:5228003.1/42

Out: 861.085+/-0.116 $\chi^2$/NDF:7300473.0/50

All: 857.086+/-0.083 $\chi^2$/NDF: 12530913.0/93




Right In: -30.721+/-37.579 $\chi^2$/NDF: 14.0/19

Left Out: 66.896+/-25.584 $\chi^2$/NDF:19.6/24

Right Out: -8.938+/-36.024 $\chi^2$/NDF: 31.8/25

Left In: 79.766+/-26.299 $\chi^2$/NDF:36.9/22

Left: 73.154+/-18.338 $\chi^2$/NDF: 56.7/47

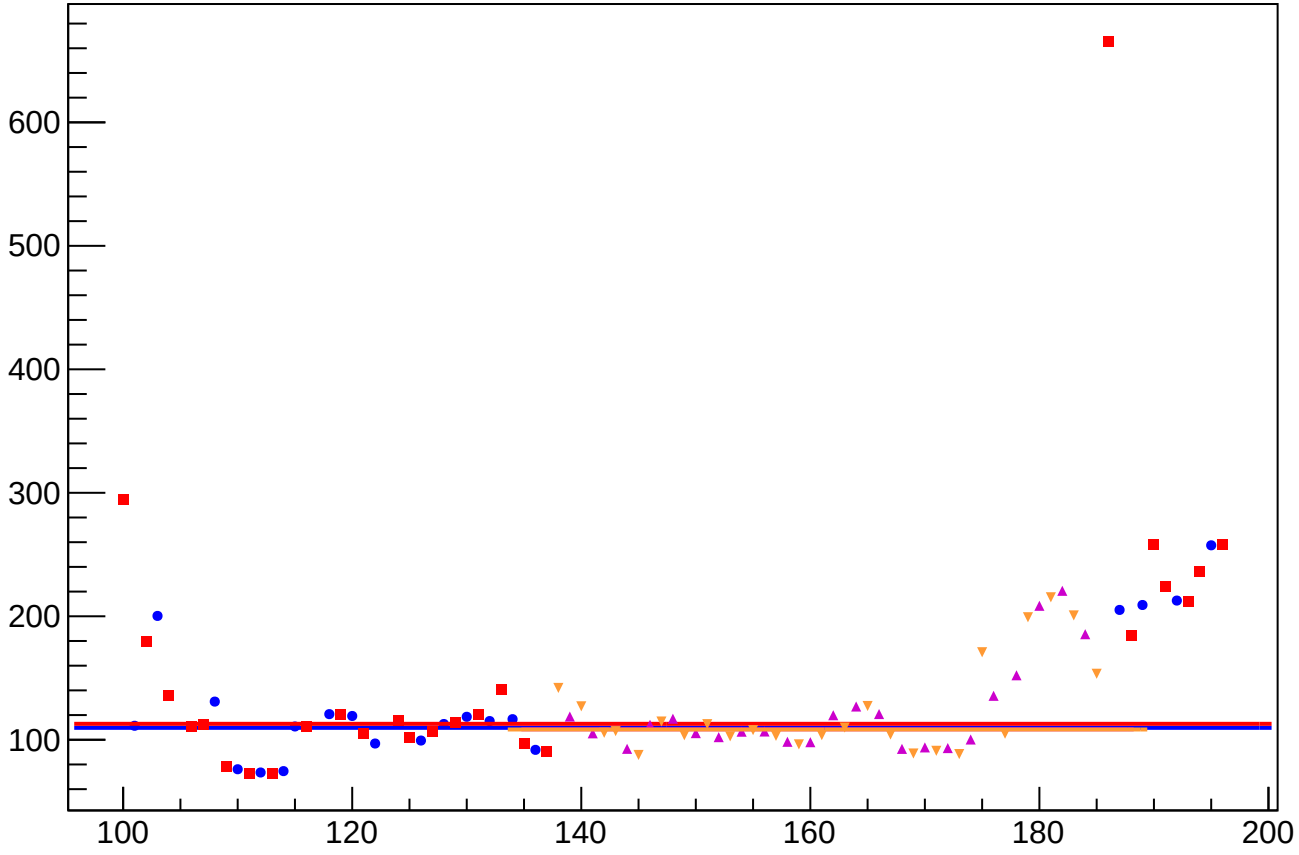
Right: -19.370+/-26.005 $\chi^2$/NDF: 46.0/45

In: 43.443+/-21.546 $\chi^2$/NDF:56.8/42

Out: 41.472+/-20.859 $\chi^2$/NDF:54.3/50

All: 42.426+/-14.987 $\chi^2$/NDF: 111.1/93

# dit_asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 109.675+/-0.027 $\chi^2$/NDF: 2140278.8/19

Left Out: 108.330+/-0.018 $\chi^2$/NDF:1774599.9/24

Right Out: 112.915+/-0.025 $\chi^2$/NDF: 3620152.3/25

Left In: 108.492+/-0.019 $\chi^2$/NDF:1379398.3/22

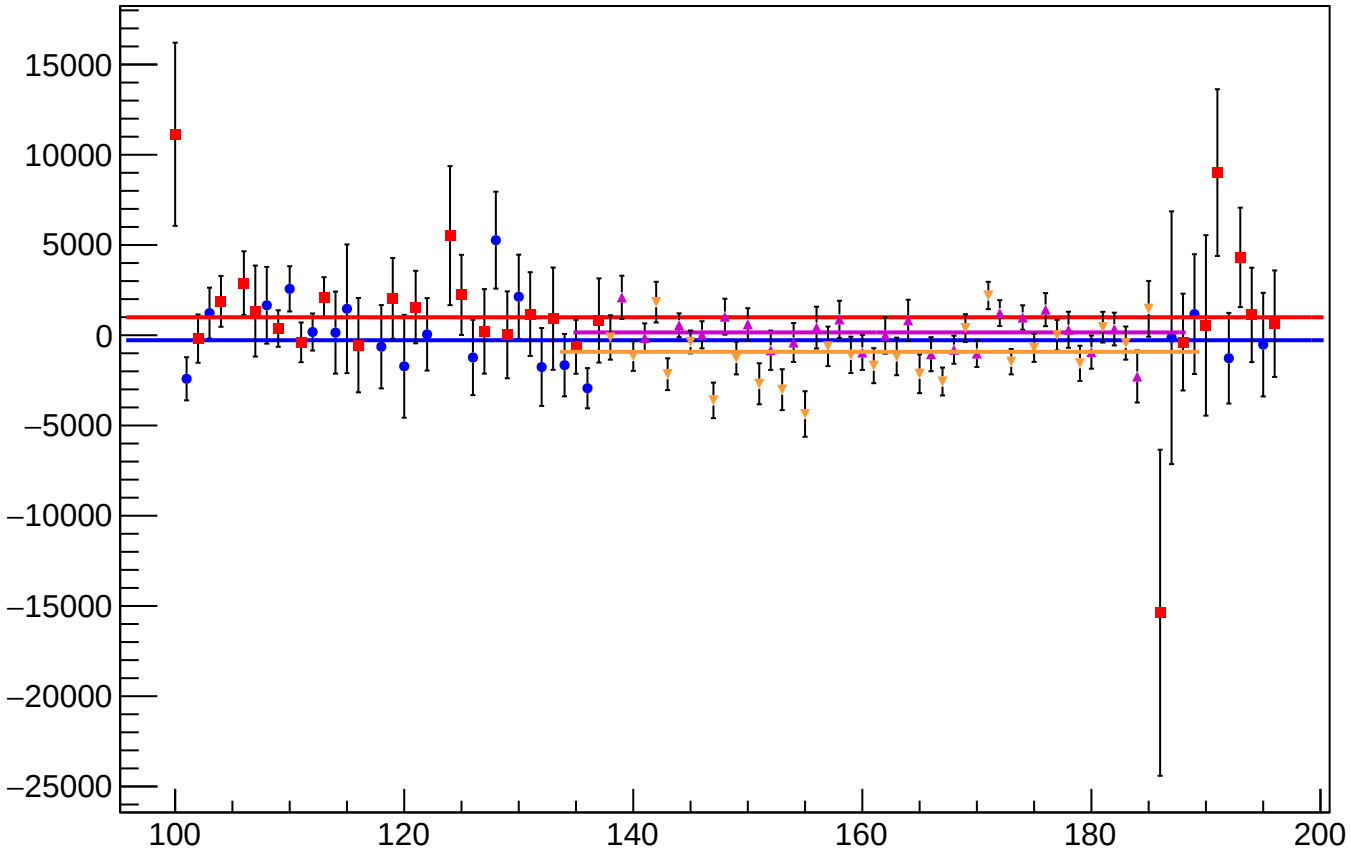
Left: 108.409+/-0.013 $\chi^2$/NDF: 3154037.3/47

Right: 111.364+/-0.018 $\chi^2$/NDF: 5768180.7/45

In: 108.881+/-0.015 $\chi^2$/NDF:3521006.3/42

Out: 109.867+/-0.015 $\chi^2$/NDF:5416289.8/50

All: 109.390+/-0.011 $\chi^2$/NDF: 8939459.1/93




Right In: -277.180+/-403.560 $\chi^2$/NDF: 23.8/19

Left Out: -918.735+/-182.461 $\chi^2$/NDF:64.1/24

Right Out: 996.447+/-377.955 $\chi^2$/NDF: 21.2/25

Left In: 155.874+/-187.116 $\chi^2$/NDF:23.1/22

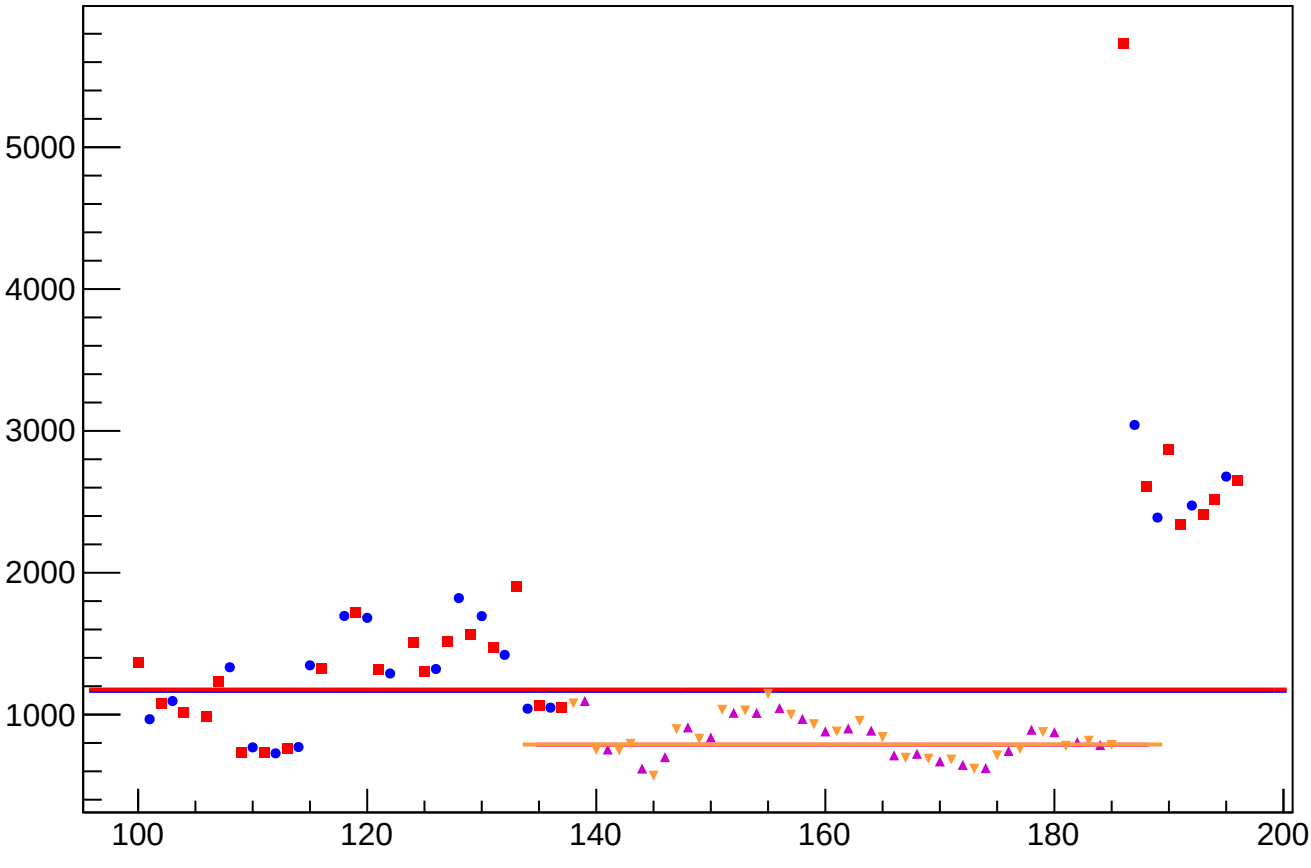
Left: -394.962+/-130.634 $\chi^2$/NDF: 104.1/47

Right: 401.318+/-275.863 $\chi^2$/NDF: 50.3/45

In: 79.248+/-169.756 $\chi^2$/NDF:47.8/42

Out: -556.752+/-164.316 $\chi^2$/NDF:106.1/50

All: -249.106+/-118.065 $\chi^2$/NDF: 161.2/93




Right In: 1167.320+/-0.285 $\chi^2$/NDF: 2687933.2/19

Left Out: 789.250+/-0.129 $\chi^2$/NDF:1176799.1/24

Right Out: 1176.641+/-0.267 $\chi^2$/NDF: 4347932.0/25

Left In: 787.390+/-0.132 $\chi^2$/NDF:1041390.9/22

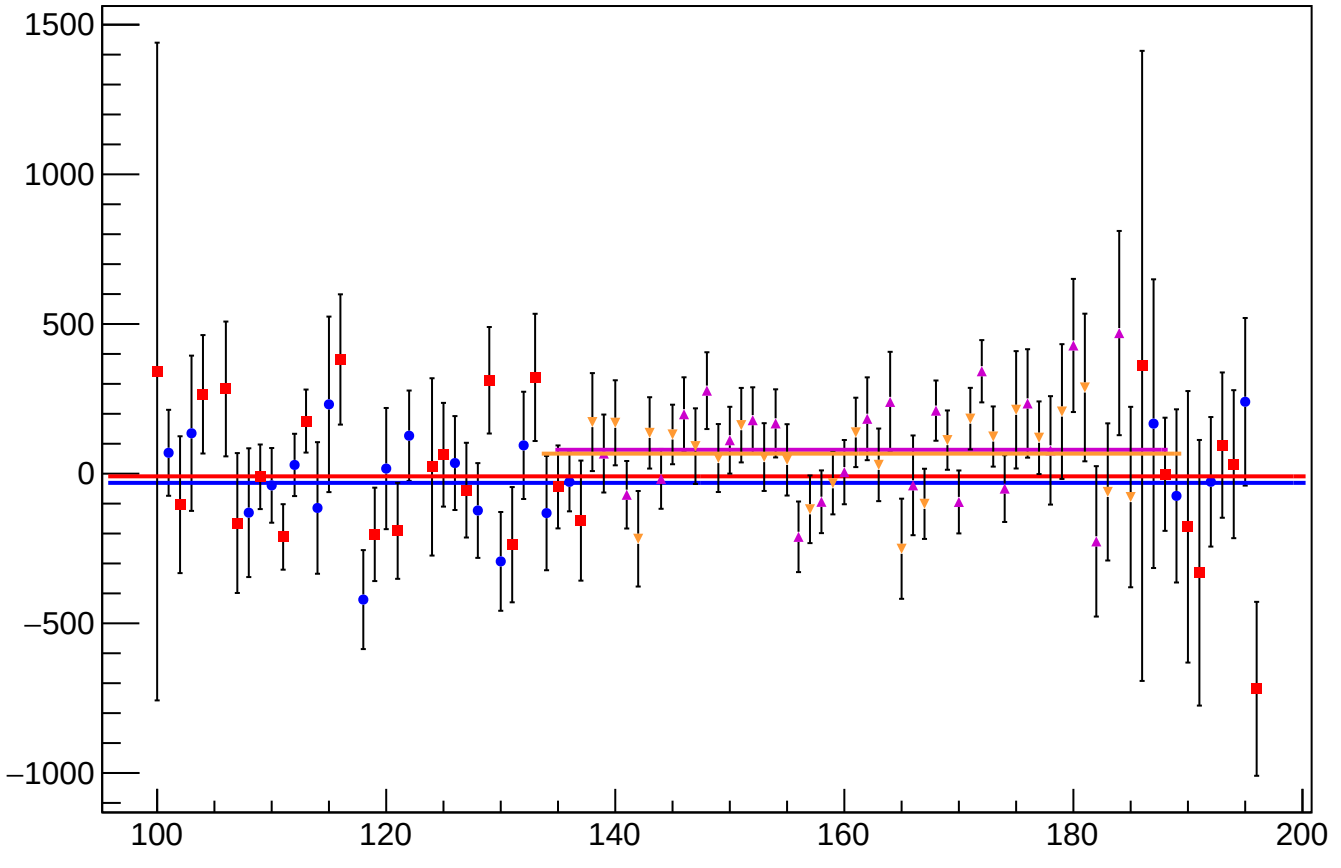
Left: 788.343+/-0.092 $\chi^2$/NDF: 2218291.4/47

Right: 1172.286+/-0.195 $\chi^2$/NDF: 7036433.6/45

In: 854.616+/-0.120 $\chi^2$/NDF:5188312.2/42

Out: 862.469+/-0.116 $\chi^2$/NDF:7228723.9/50

All: 858.671+/-0.083 $\chi^2$/NDF: 12419246.1/93




Right In: -30.720+/-37.579 $\chi^2$/NDF: 14.0/19

Left Out: 66.898+/-25.584 $\chi^2$/NDF:19.6/24

Right Out: -8.940+/-36.024 $\chi^2$/NDF: 31.8/25

Left In: 79.766+/-26.299 $\chi^2$/NDF:36.9/22

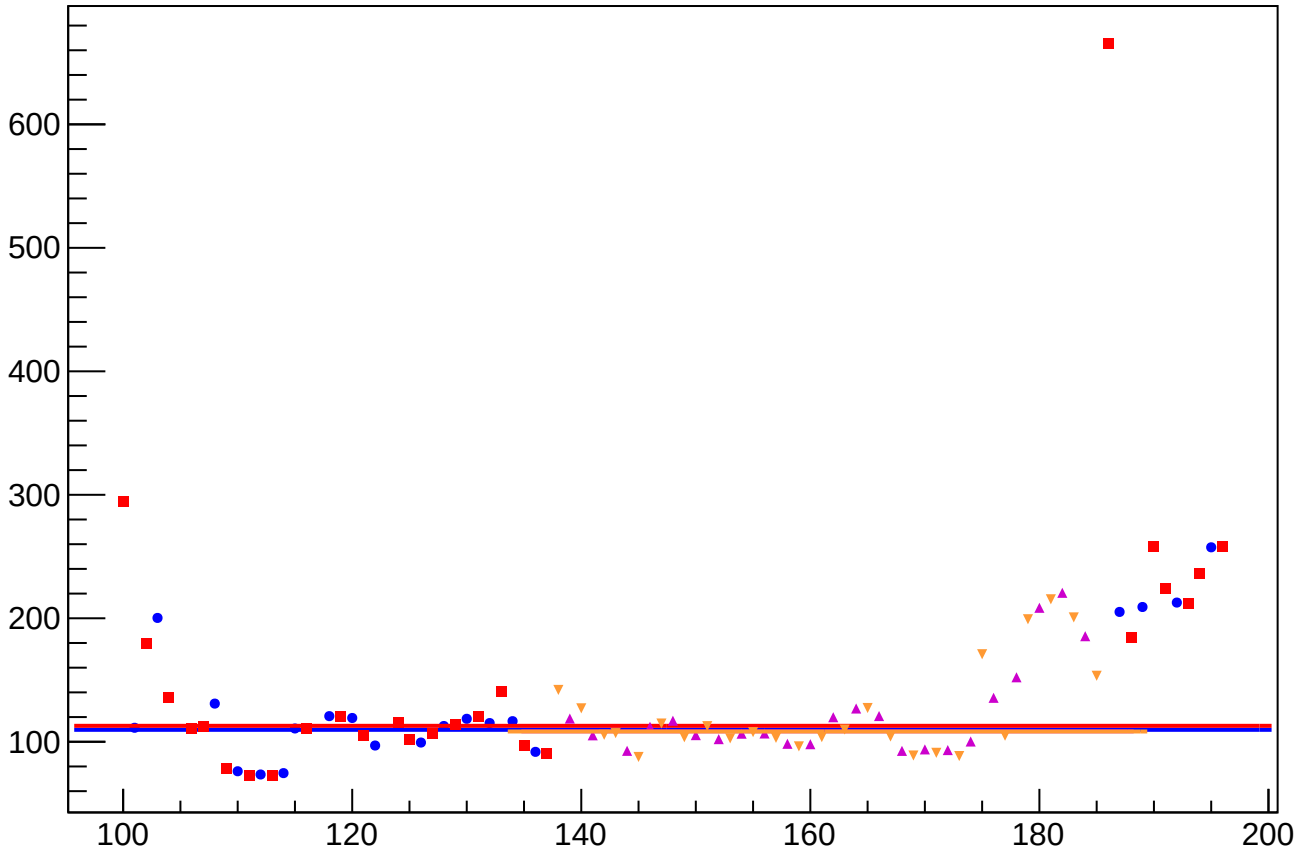
Left: 73.154+/-18.338 $\chi^2$/NDF: 56.7/47

Right: -19.370+/-26.005 $\chi^2$/NDF: 46.0/45

In: 43.443+/-21.546 $\chi^2$/NDF:56.8/42

Out: 41.472+/-20.859 $\chi^2$/NDF:54.3/50

All: 42.426+/-14.987 $\chi^2$/NDF: 111.1/93




Right In: 109.675+/-0.027 $\chi^2$/NDF: 2140274.0/19

Left Out: 108.330+/-0.018 $\chi^2$/NDF:1774594.6/24

Right Out: 112.916+/-0.025 $\chi^2$/NDF: 3620155.2/25

Left In: 108.493+/-0.019 $\chi^2$/NDF:1379379.3/22

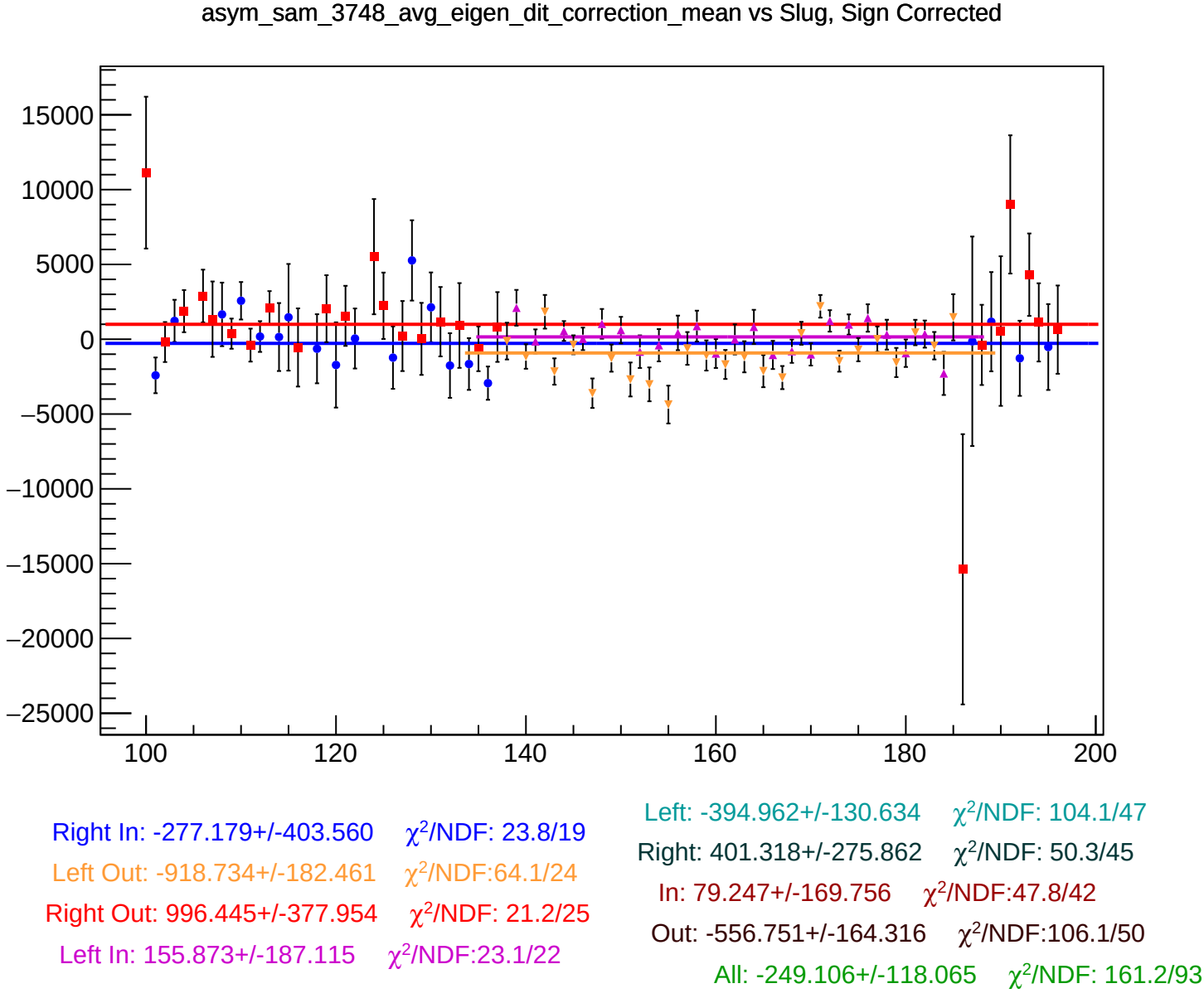
Left: 108.409+/-0.013 $\chi^2$/NDF: 3154013.0/47

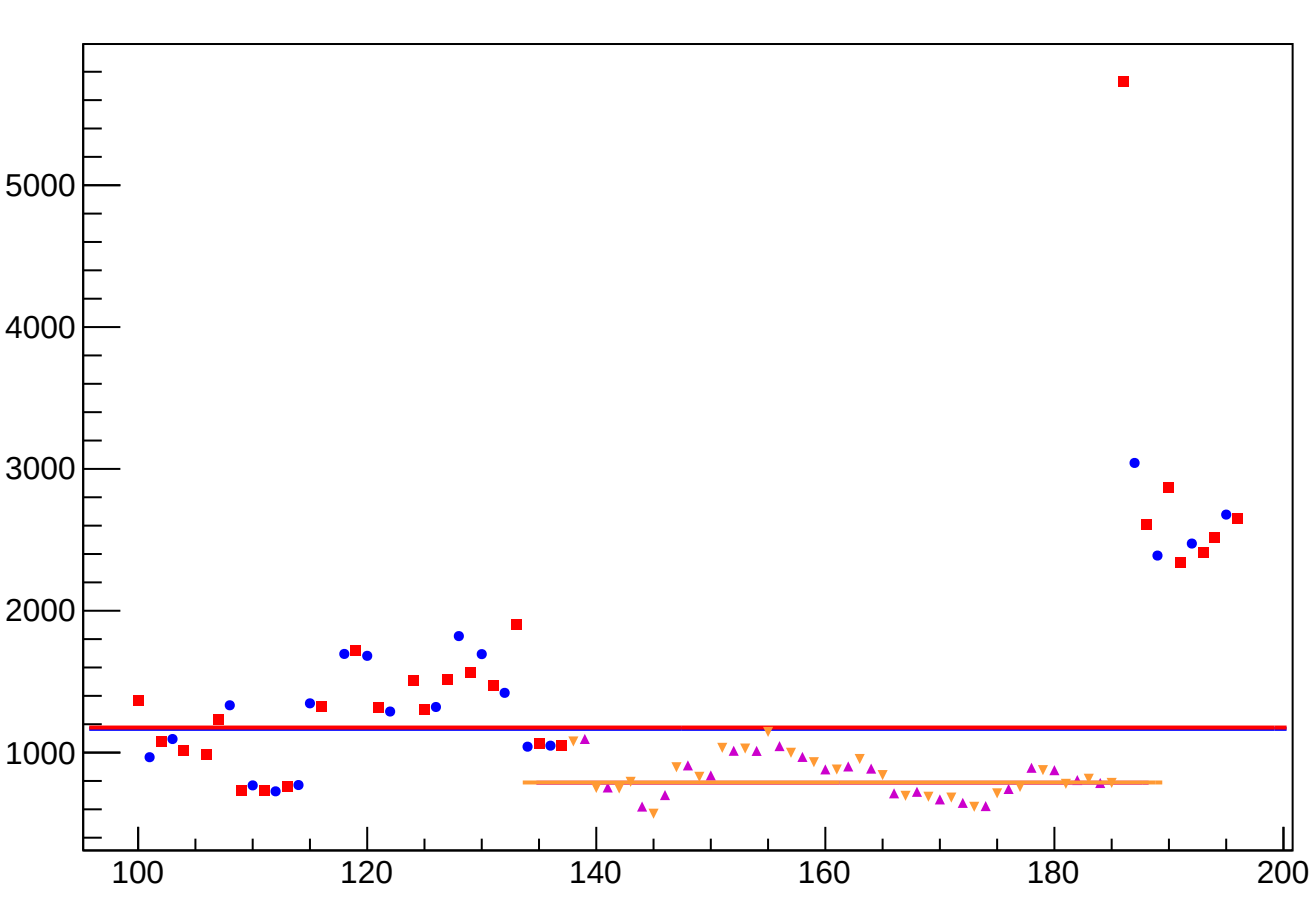
Right: 111.364+/-0.018 $\chi^2$/NDF: 5768178.8/45

In: 108.881+/-0.015 $\chi^2$/NDF:3520982.1/42

Out: 109.868+/-0.015 $\chi^2$/NDF:5416285.9/50

All: 109.391+/-0.011 $\chi^2$/NDF: 8939431.0/93


asym_sam_3748_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
100
120
140
160
180
200
Right In: -277.179+/-403.560 χ²/NDF: 23.8/19
Left Out: -918.734+/-182.461 χ²/NDF:64.1/24
Right Out: 996.445+/-377.954 χ²/NDF: 21.2/25
Left In: 155.873+/-187.115 χ²/NDF:23.1/22
Left: -394.962+/-130.634 χ²/NDF: 104.1/47
Right: 401.318+/-275.862 χ²/NDF: 50.3/45
In: 79.247+/-169.756 χ²/NDF:47.8/42
Out: -556.751+/-164.316 χ²/NDF:106.1/50
All: -249.106+/-118.065 χ²/NDF: 161.2/93




Right In: 1167.318+/-0.285 $\chi^2$/NDF: 2687940.1/19

Left Out: 789.248+/-0.129 $\chi^2$/NDF:1176801.9/24

Right Out: 1176.639+/-0.267 $\chi^2$/NDF: 4347934.6/25

Left In: 787.388+/-0.132 $\chi^2$/NDF:1041391.2/22

Left: 788.342+/-0.092 $\chi^2$/NDF: 2218294.3/47

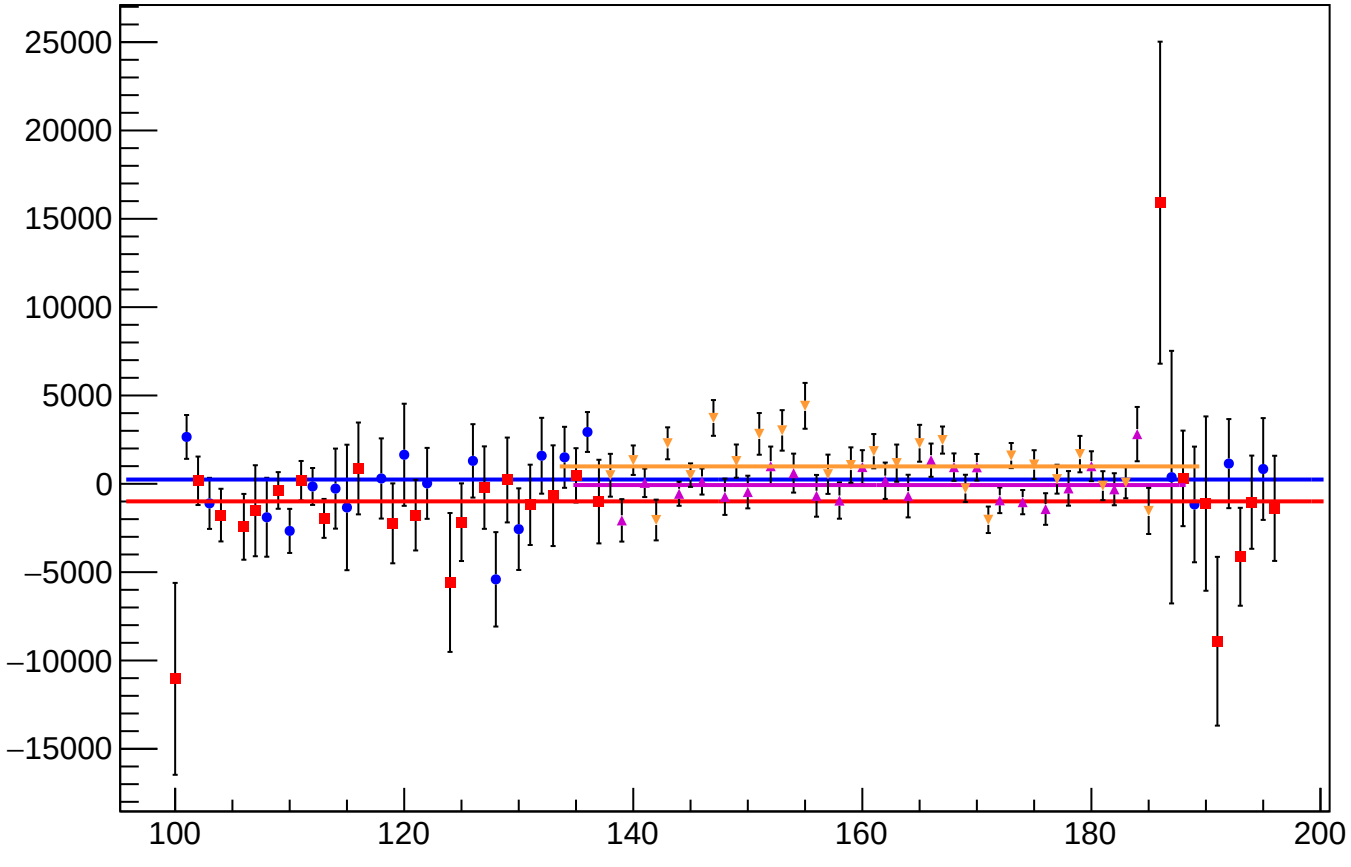
Right: 1172.284+/-0.195 $\chi^2$/NDF: 7036443.1/45

In: 854.614+/-0.120 $\chi^2$/NDF:5188318.5/42

Out: 862.468+/-0.116 $\chi^2$/NDF:7228730.5/50

All: 858.669+/-0.083 $\chi^2$/NDF: 12419259.0/93

# asym_sam_3748_avg_mean vs Slug, Sign Corrected




Right In: 242.572+/-407.897 $\chi^2$/NDF: 24.8/19

Left Out: 985.656+/-183.601 $\chi^2$/NDF:63.7/24

Right Out: -993.565+/-384.198 $\chi^2$/NDF: 18.9/25

Left In: -70.089+/-188.036 $\chi^2$/NDF:24.4/22

Left: 470.380+/-131.365 $\chi^2$/NDF: 104.3/47

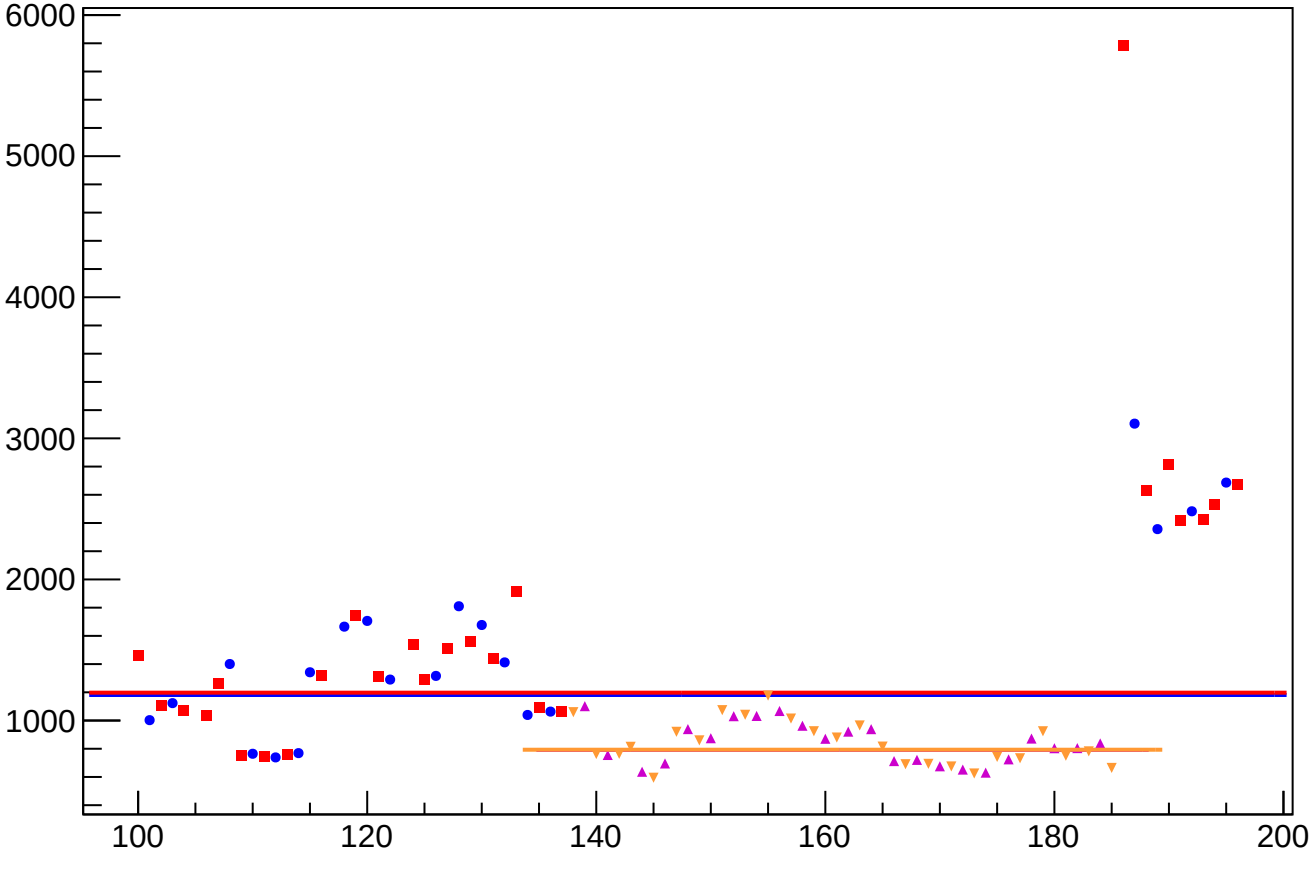
Right: -412.448+/-279.672 $\chi^2$/NDF: 48.6/45

In: -15.290+/-170.764 $\chi^2$/NDF:49.7/42

Out: 617.692+/-165.657 $\chi^2$/NDF:104.2/50

All: 310.808+/-118.902 $\chi^2$/NDF: 161.0/93

# asym_sam_3748_avg_rms vs Slug, Sign Corrected




Right In: 1181.083+/-0.288 $\chi^2$/NDF: 2631019.3/19

Left Out: 793.051+/-0.130 $\chi^2$/NDF:1193972.3/24

Right Out: 1197.450+/-0.272 $\chi^2$/NDF: 4265226.1/25

Left In: 791.155+/-0.133 $\chi^2$/NDF:1049107.7/22

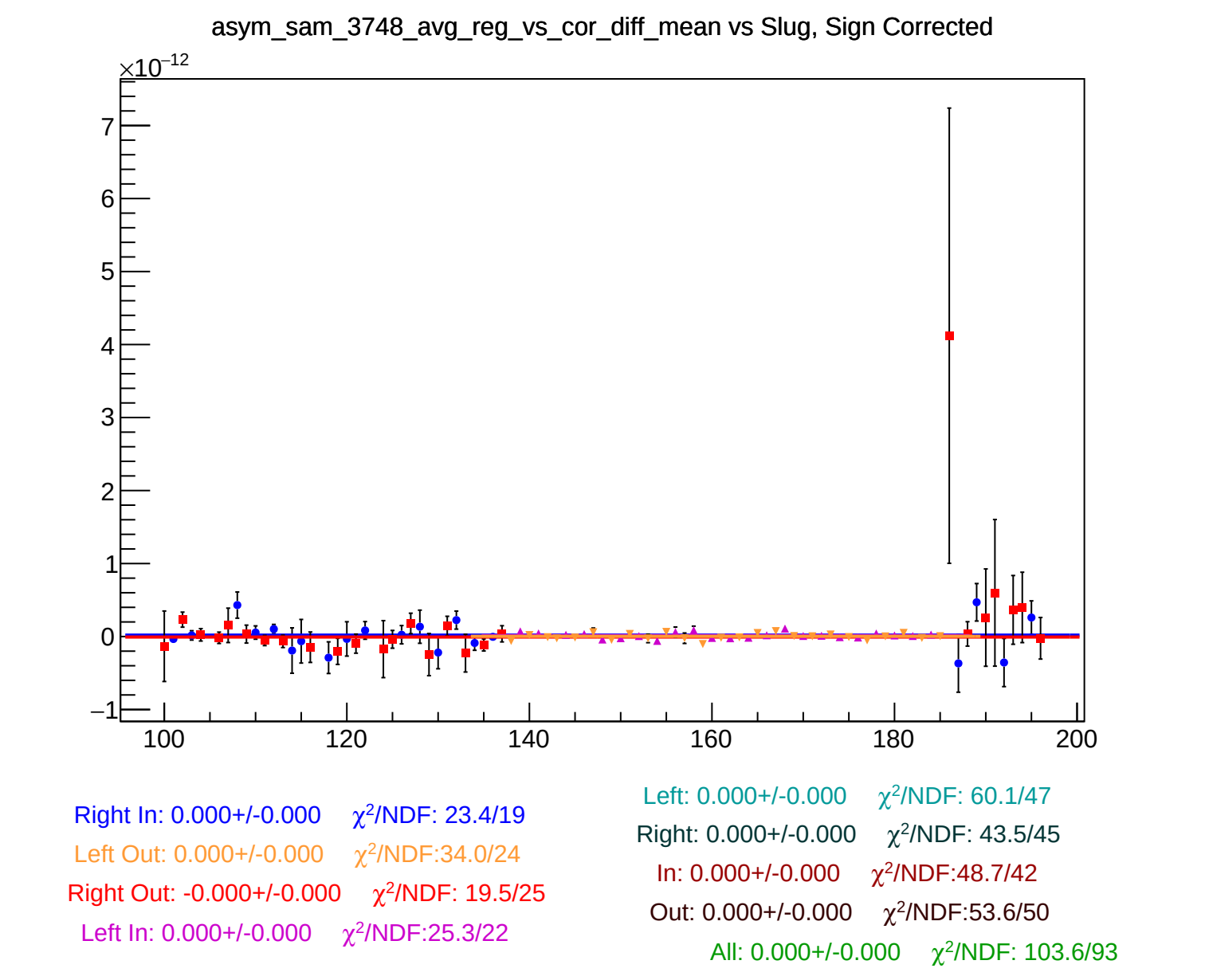
Left: 792.126+/-0.093 $\chi^2$/NDF: 2243184.1/47

Right: 1189.756+/-0.198 $\chi^2$/NDF: 6897951.8/45

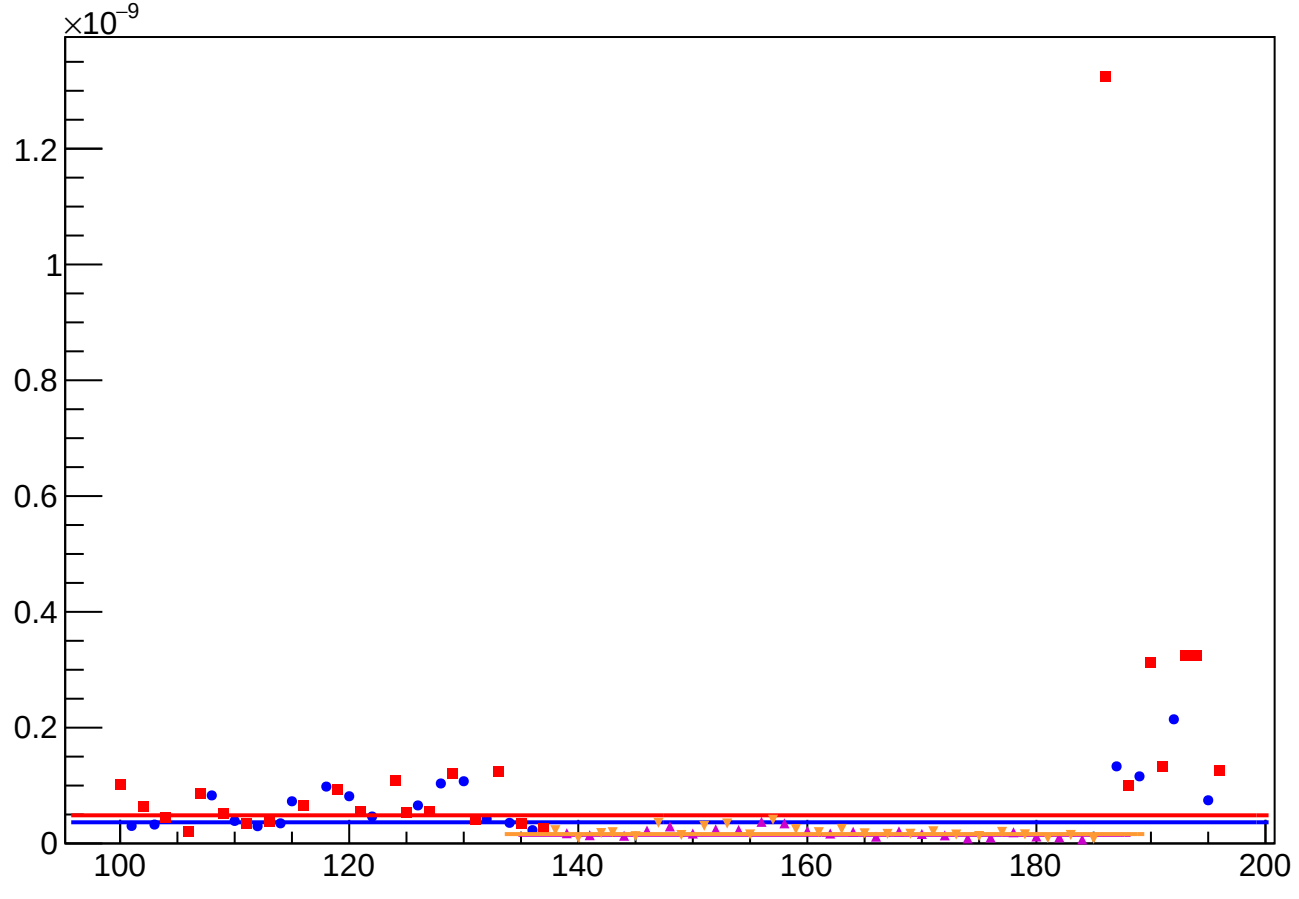
In: 859.496+/-0.121 $\chi^2$/NDF:5187470.1/42

Out: 868.234+/-0.117 $\chi^2$/NDF:7263094.0/50

All: 863.998+/-0.084 $\chi^2$/NDF: 12453262.2/93


asym_sam_3748_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
7
6
5
4
3
2
1
0
−1
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 23.4/19
Left Out: 0.000+/-0.000 χ²/NDF:34.0/24
Right Out: -0.000+/-0.000 χ²/NDF: 19.5/25
Left In: 0.000+/-0.000 χ²/NDF:25.3/22
Left: 0.000+/-0.000 χ²/NDF: 60.1/47
Right: 0.000+/-0.000 χ²/NDF: 43.5/45
In: 0.000+/-0.000 χ²/NDF:48.7/42
Out: 0.000+/-0.000 χ²/NDF:53.6/50
All: 0.000+/-0.000 χ²/NDF: 103.6/93

asym_sam_3748_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2152711.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1725685.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3465918.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1661952.2/22

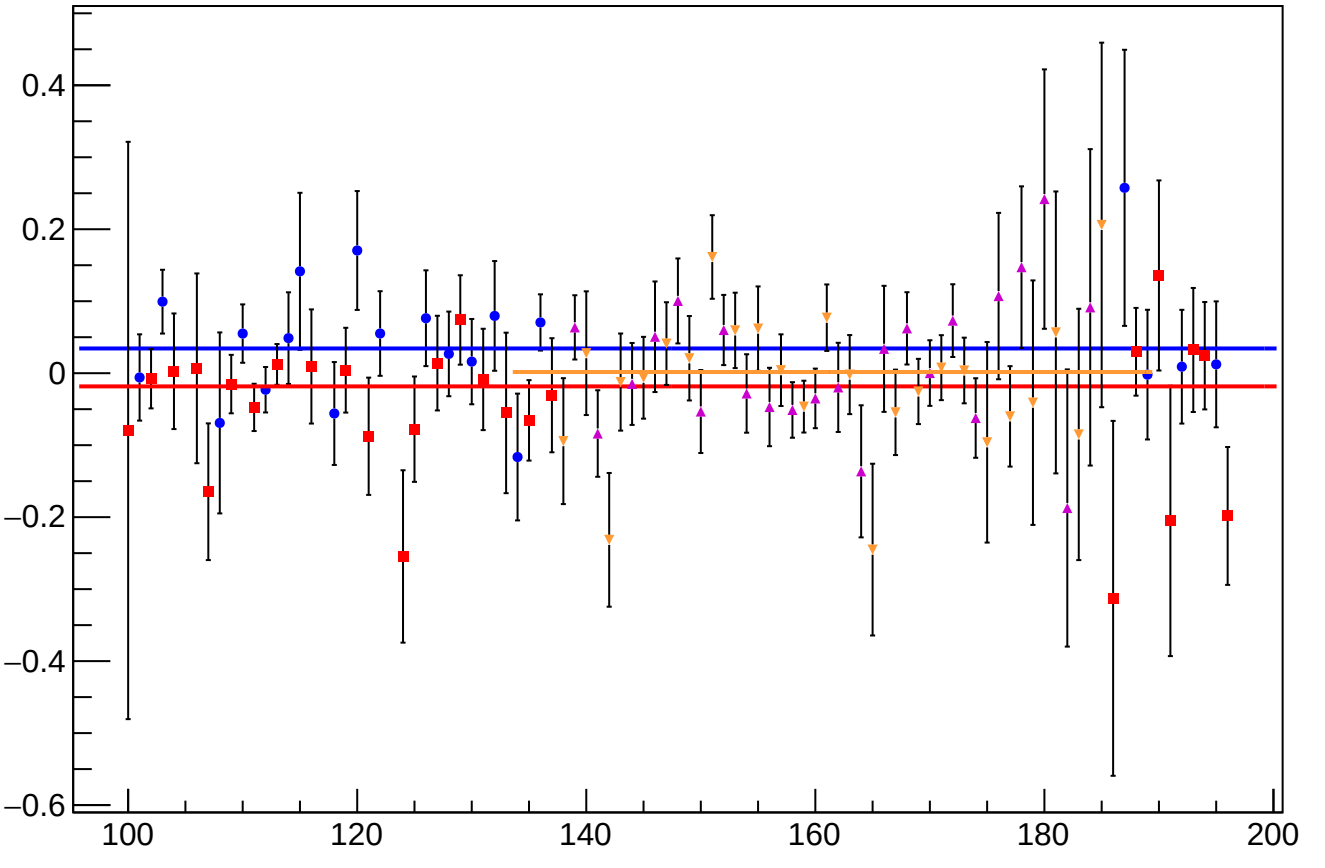
Left: 0.000+/-0.000 $\chi^2$/NDF: 3428363.2/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 5869395.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:5671878.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8051525.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 13775314.1/93




Right In: 0.034+/-0.013 $\chi^2$/NDF: 18.6/19

Left Out: 0.002+/-0.012 $\chi^2$/NDF:30.4/24

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 22.0/25

Left In: 0.002+/-0.012 $\chi^2$/NDF:26.1/22

Left: 0.002+/-0.009 $\chi^2$/NDF: 56.5/47

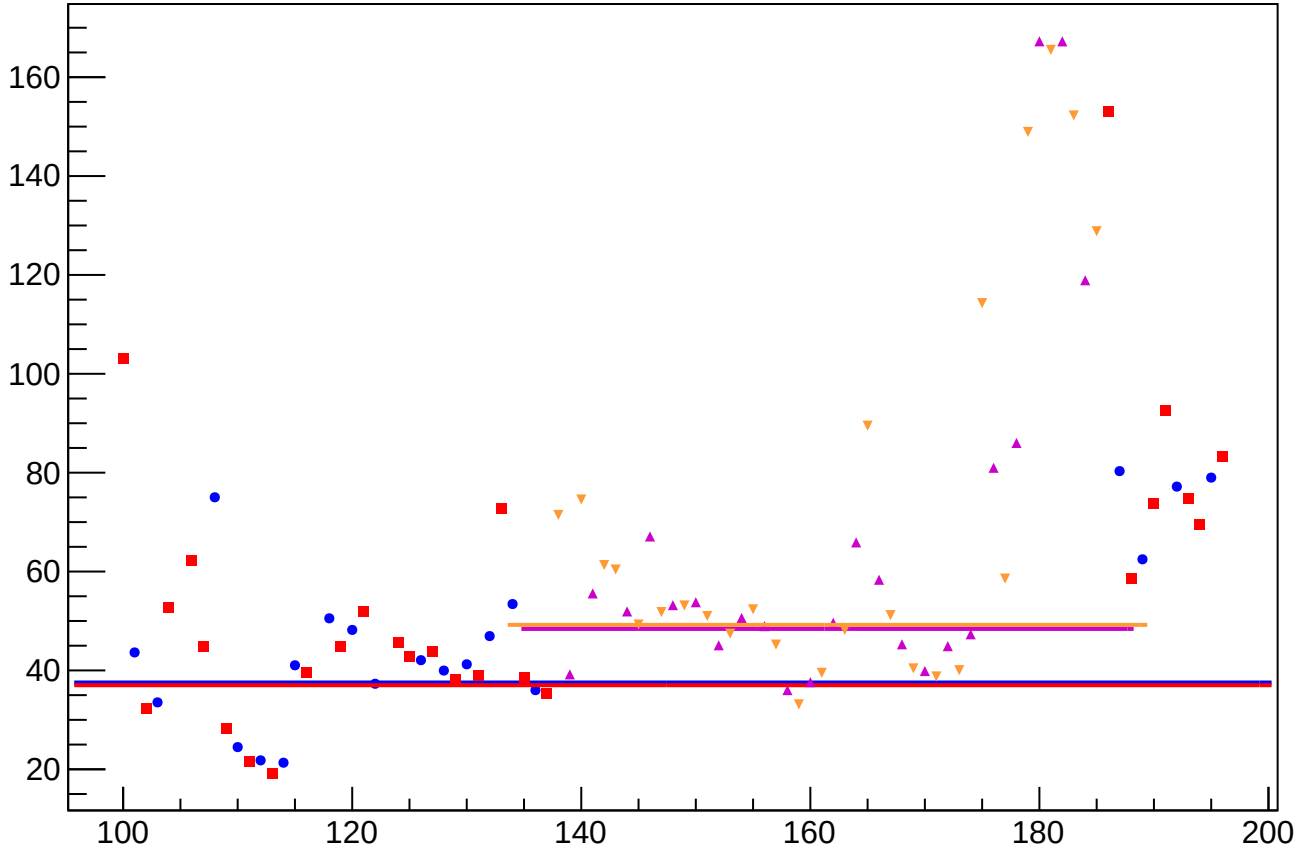
Right: 0.006+/-0.009 $\chi^2$/NDF: 49.1/45

In: 0.017+/-0.009 $\chi^2$/NDF:47.9/42

Out: -0.008+/-0.009 $\chi^2$/NDF:53.7/50

All: 0.004+/-0.006 $\chi^2$/NDF: 105.6/93

asym_sam_3748_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.555+/-0.009 $\chi^2$/NDF: 2474523.4/19

Left Out: 49.216+/-0.009 $\chi^2$/NDF:4171670.0/24

Right Out: 37.005+/-0.009 $\chi^2$/NDF: 4188999.0/25

Left In: 48.392+/-0.009 $\chi^2$/NDF:3033240.8/22

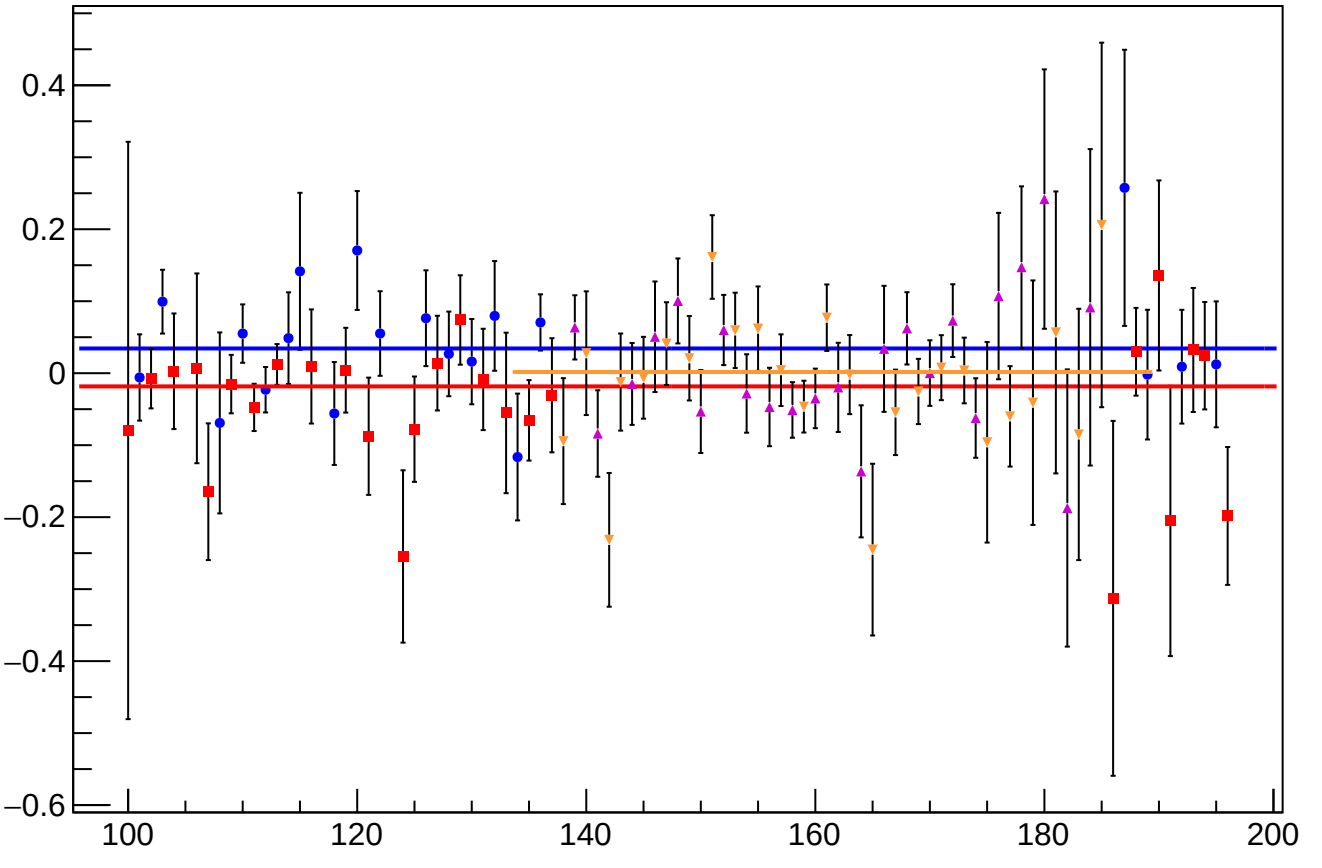
Left: 48.807+/-0.006 $\chi^2$/NDF: 7209372.0/47

Right: 37.258+/-0.006 $\chi^2$/NDF: 6665362.9/45

In: 43.380+/-0.006 $\chi^2$/NDF:6217754.6/42

Out: 43.115+/-0.006 $\chi^2$/NDF:9345967.0/50

All: 43.242+/-0.004 $\chi^2$/NDF: 15564606.2/93




Right In: 0.034+/-0.013 $\chi^2$/NDF: 18.6/19

Left Out: 0.002+/-0.012 $\chi^2$/NDF:30.4/24

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 22.0/25

Left In: 0.002+/-0.012 $\chi^2$/NDF:26.1/22

Left: 0.002+/-0.009 $\chi^2$/NDF: 56.5/47

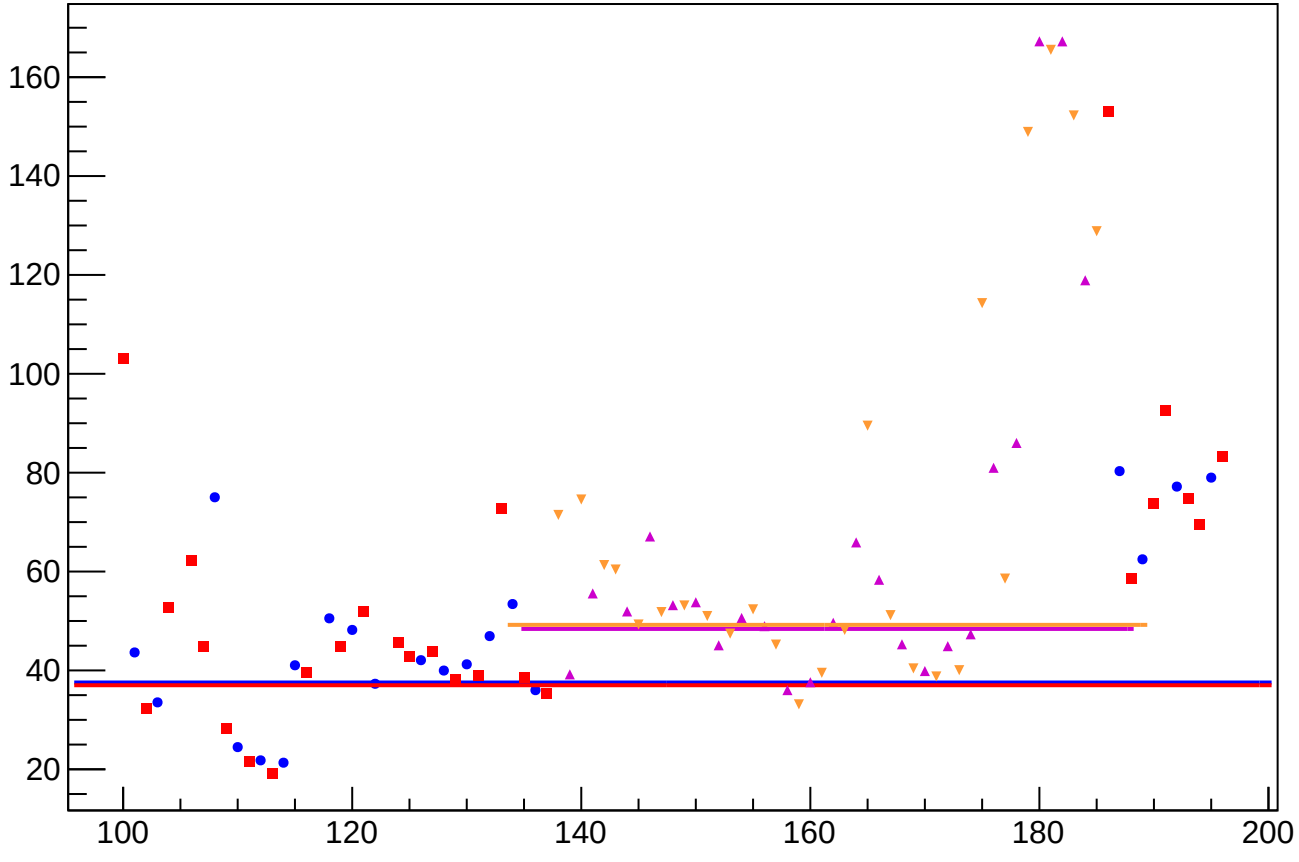
Right: 0.006+/-0.009 $\chi^2$/NDF: 49.1/45

In: 0.017+/-0.009 $\chi^2$/NDF:47.9/42

Out: -0.008+/-0.009 $\chi^2$/NDF:53.7/50

All: 0.004+/-0.006 $\chi^2$/NDF: 105.6/93

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.555+/-0.009 $\chi^2$/NDF: 2474523.4/19

Left Out: 49.216+/-0.009 $\chi^2$/NDF:4171670.0/24

Right Out: 37.005+/-0.009 $\chi^2$/NDF: 4188999.0/25

Left In: 48.392+/-0.009 $\chi^2$/NDF:3033240.8/22

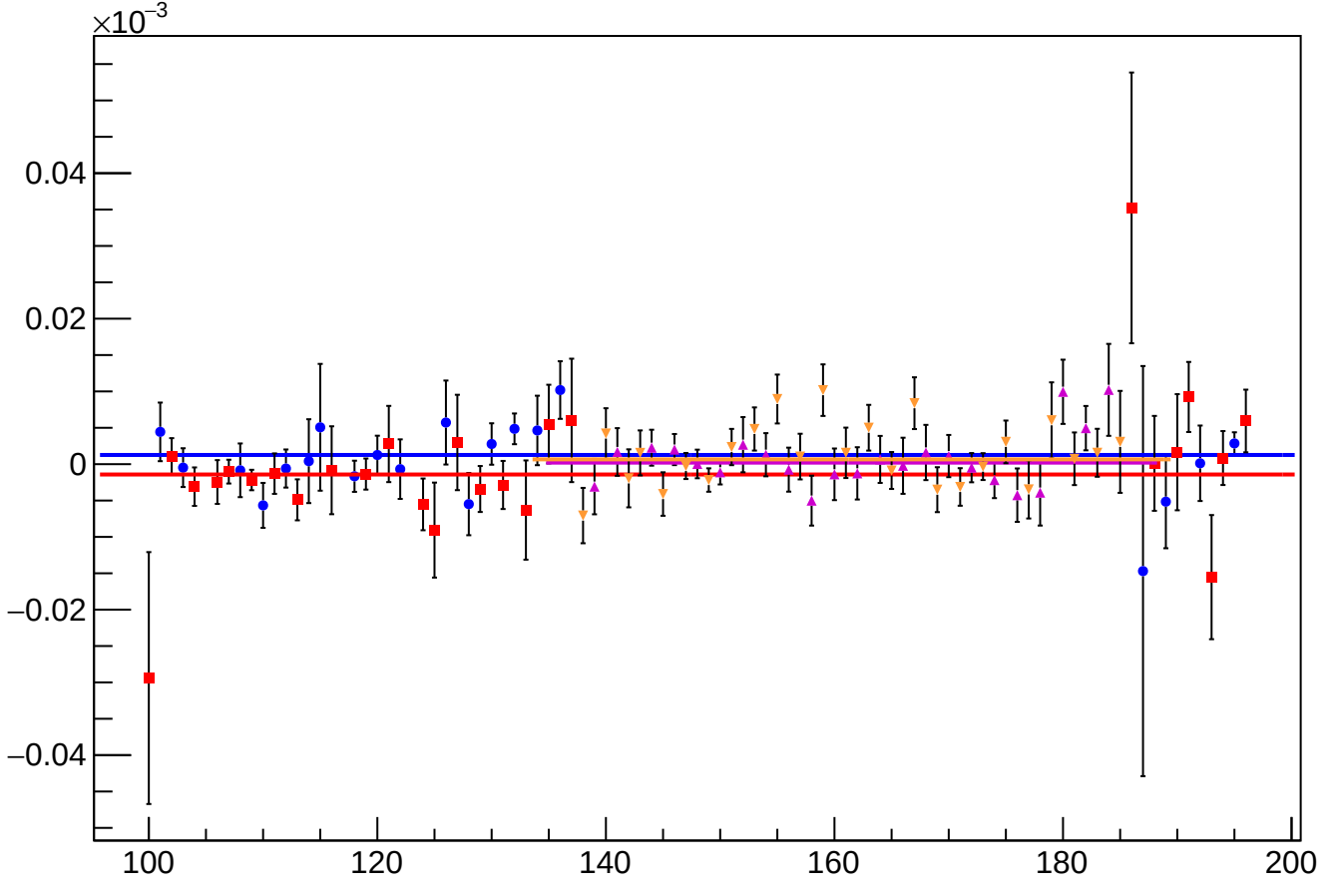
Left: 48.807+/-0.006 $\chi^2$/NDF: 7209372.0/47

Right: 37.258+/-0.006 $\chi^2$/NDF: 6665362.9/45

In: 43.380+/-0.006 $\chi^2$/NDF:6217754.6/42

Out: 43.115+/-0.006 $\chi^2$/NDF:9345967.0/50

All: 43.242+/-0.004 $\chi^2$/NDF: 15564606.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:41.7/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 28.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:19.8/22

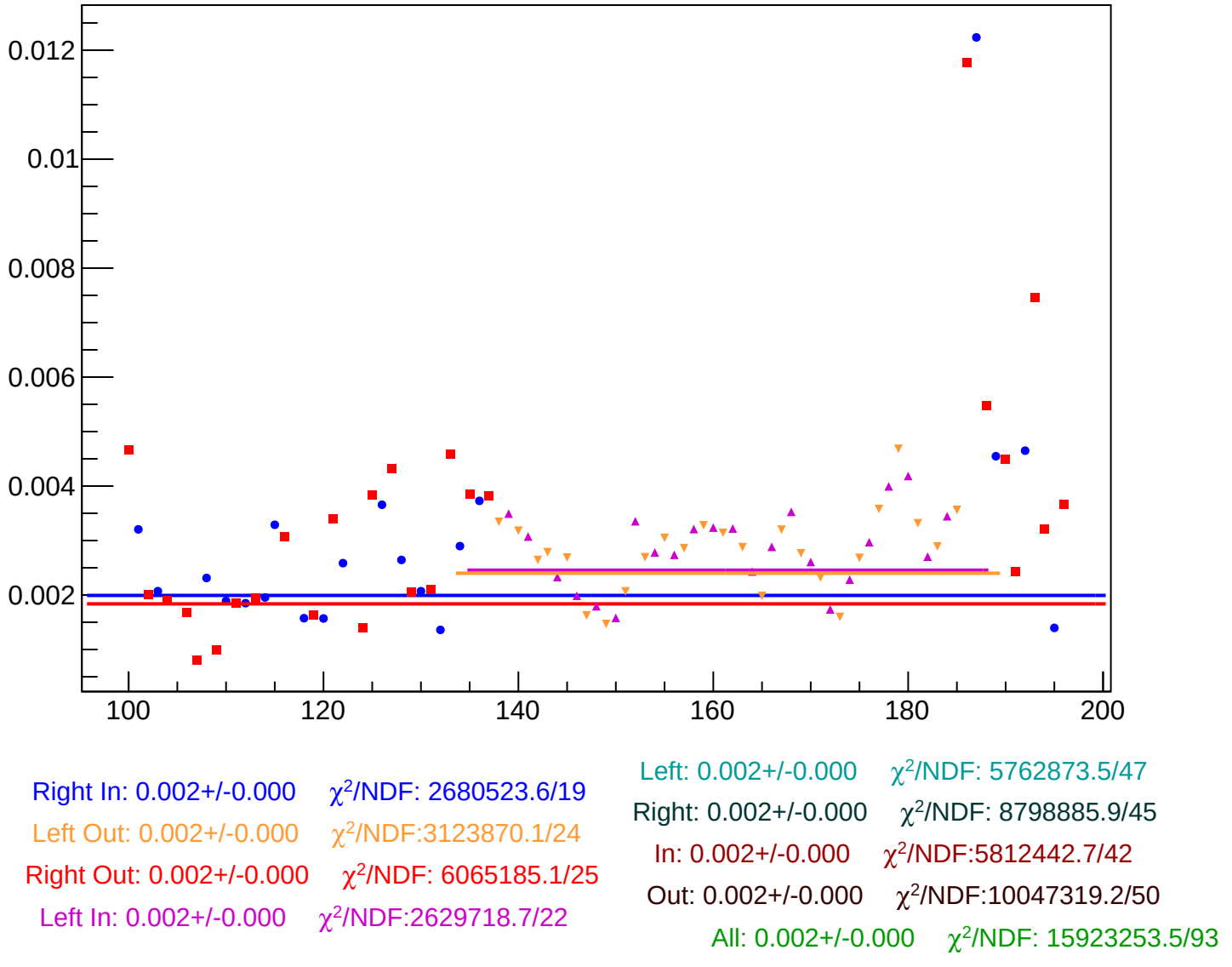
Left: 0.000+/-0.000 $\chi^2$/NDF: 61.7/47

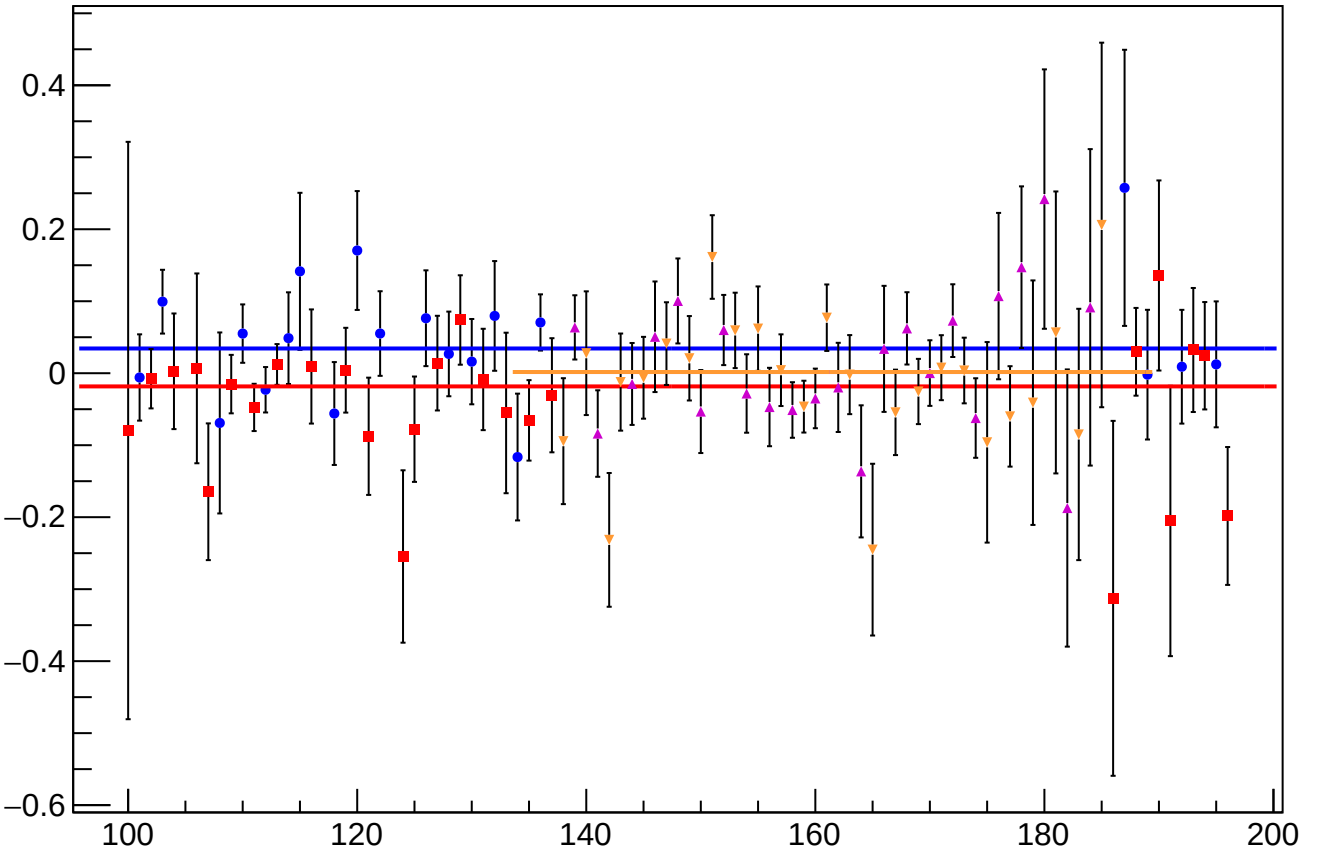
Right: -0.000+/-0.000 $\chi^2$/NDF: 59.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:75.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 122.7/93


asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.012
0.01
0.008
0.006
0.004
0.002
100
120
140
160
180
200
Right In: 0.002+/-0.000 χ²/NDF: 2680523.6/19
Left Out: 0.002+/-0.000 χ²/NDF:3123870.1/24
Right Out: 0.002+/-0.000 χ²/NDF: 6065185.1/25
Left In: 0.002+/-0.000 χ²/NDF:2629718.7/22
Left: 0.002+/-0.000 χ²/NDF: 5762873.5/47
Right: 0.002+/-0.000 χ²/NDF: 8798885.9/45
In: 0.002+/-0.000 χ²/NDF:5812442.7/42
Out: 0.002+/-0.000 χ²/NDF:10047319.2/50
All: 0.002+/-0.000 χ²/NDF: 15923253.5/93




Right In: 0.034+/-0.013 $\chi^2$/NDF: 18.6/19

Left Out: 0.002+/-0.012 $\chi^2$/NDF:30.4/24

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 22.0/25

Left In: 0.002+/-0.012 $\chi^2$/NDF:26.1/22

Left: 0.002+/-0.009 $\chi^2$/NDF: 56.5/47

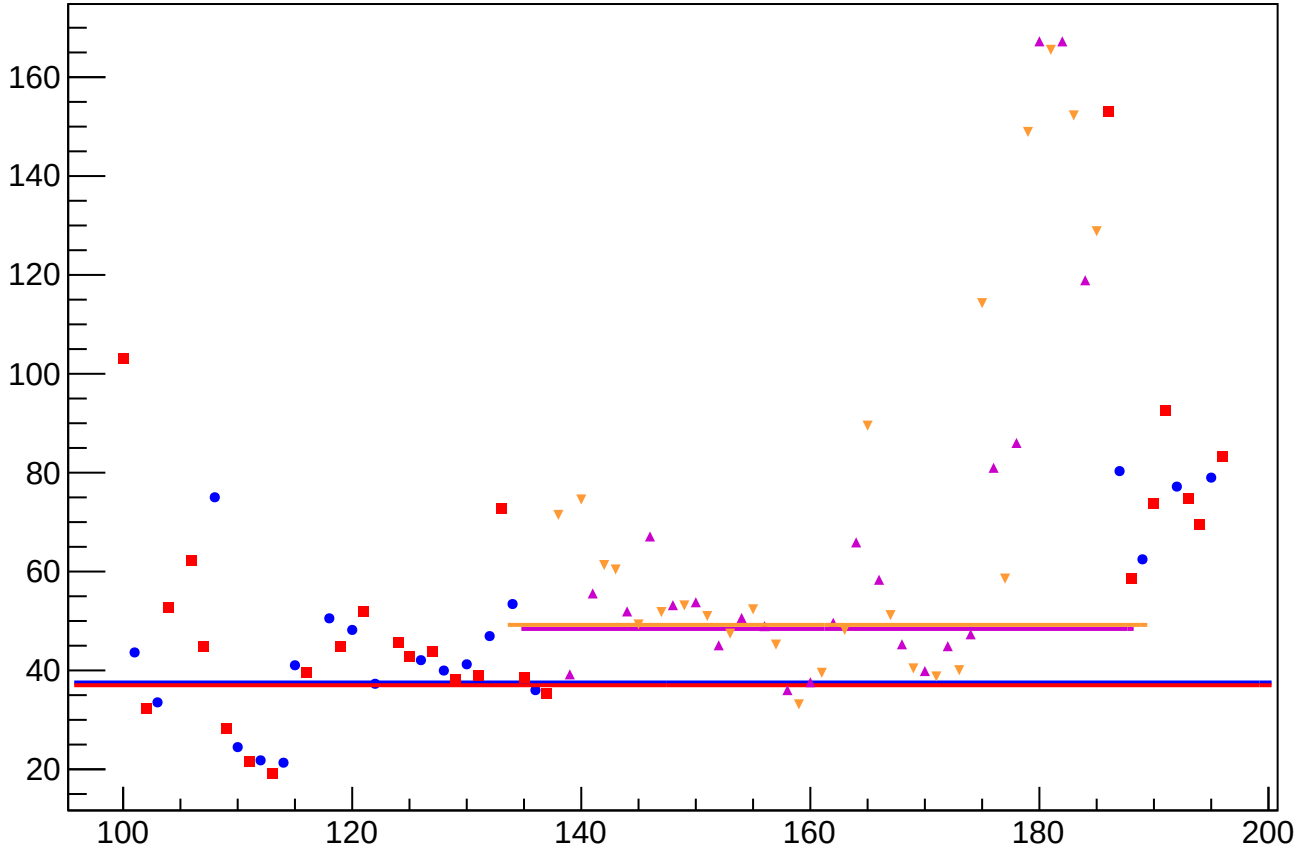
Right: 0.006+/-0.009 $\chi^2$/NDF: 49.1/45

In: 0.017+/-0.009 $\chi^2$/NDF:47.9/42

Out: -0.008+/-0.009 $\chi^2$/NDF:53.7/50

All: 0.004+/-0.006 $\chi^2$/NDF: 105.6/93

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.555+/-0.009 $\chi^2$/NDF: 2474448.4/19

Left Out: 49.217+/-0.009 $\chi^2$/NDF:4171640.8/24

Right Out: 37.005+/-0.009 $\chi^2$/NDF: 4188956.7/25

Left In: 48.393+/-0.009 $\chi^2$/NDF:3033208.4/22

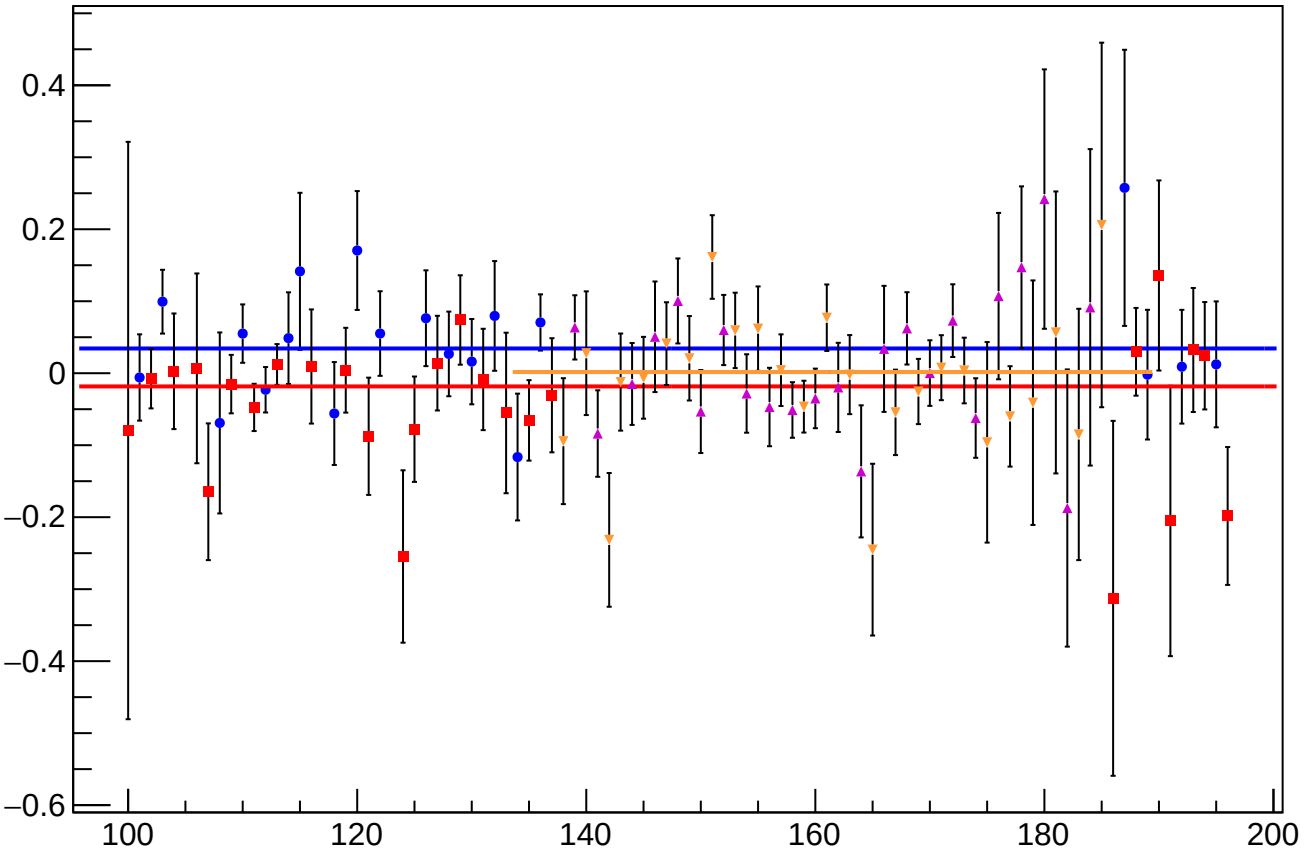
Left: 48.807+/-0.006 $\chi^2$/NDF: 7209310.4/47

Right: 37.258+/-0.006 $\chi^2$/NDF: 6665245.0/45

In: 43.380+/-0.006 $\chi^2$/NDF:6217660.7/42

Out: 43.116+/-0.006 $\chi^2$/NDF:9345896.9/50

All: 43.243+/-0.004 $\chi^2$/NDF: 15564441.7/93




Right In: 0.034+/-0.013 $\chi^2$/NDF: 18.6/19

Left Out: 0.002+/-0.012 $\chi^2$/NDF:30.4/24

Right Out: -0.018+/-0.012 $\chi^2$/NDF: 22.0/25

Left In: 0.002+/-0.012 $\chi^2$/NDF:26.1/22

Left: 0.002+/-0.009 $\chi^2$/NDF: 56.5/47

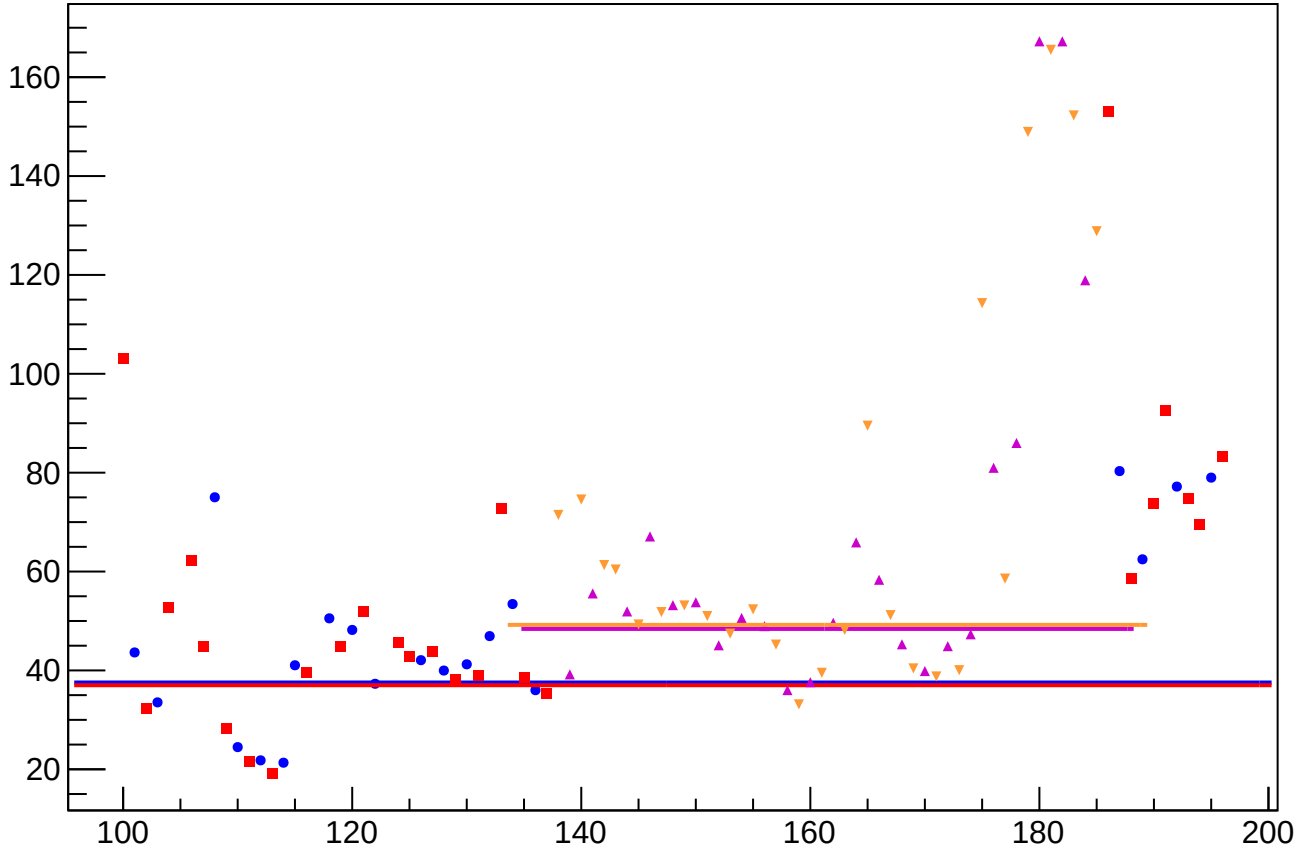
Right: 0.006+/-0.009 $\chi^2$/NDF: 49.1/45

In: 0.017+/-0.009 $\chi^2$/NDF:47.9/42

Out: -0.008+/-0.009 $\chi^2$/NDF:53.7/50

All: 0.004+/-0.006 $\chi^2$/NDF: 105.6/93

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 37.555+/-0.009 $\chi^2$/NDF: 2474448.4/19

Left Out: 49.217+/-0.009 $\chi^2$/NDF:4171640.8/24

Right Out: 37.005+/-0.009 $\chi^2$/NDF: 4188956.7/25

Left In: 48.393+/-0.009 $\chi^2$/NDF:3033208.4/22

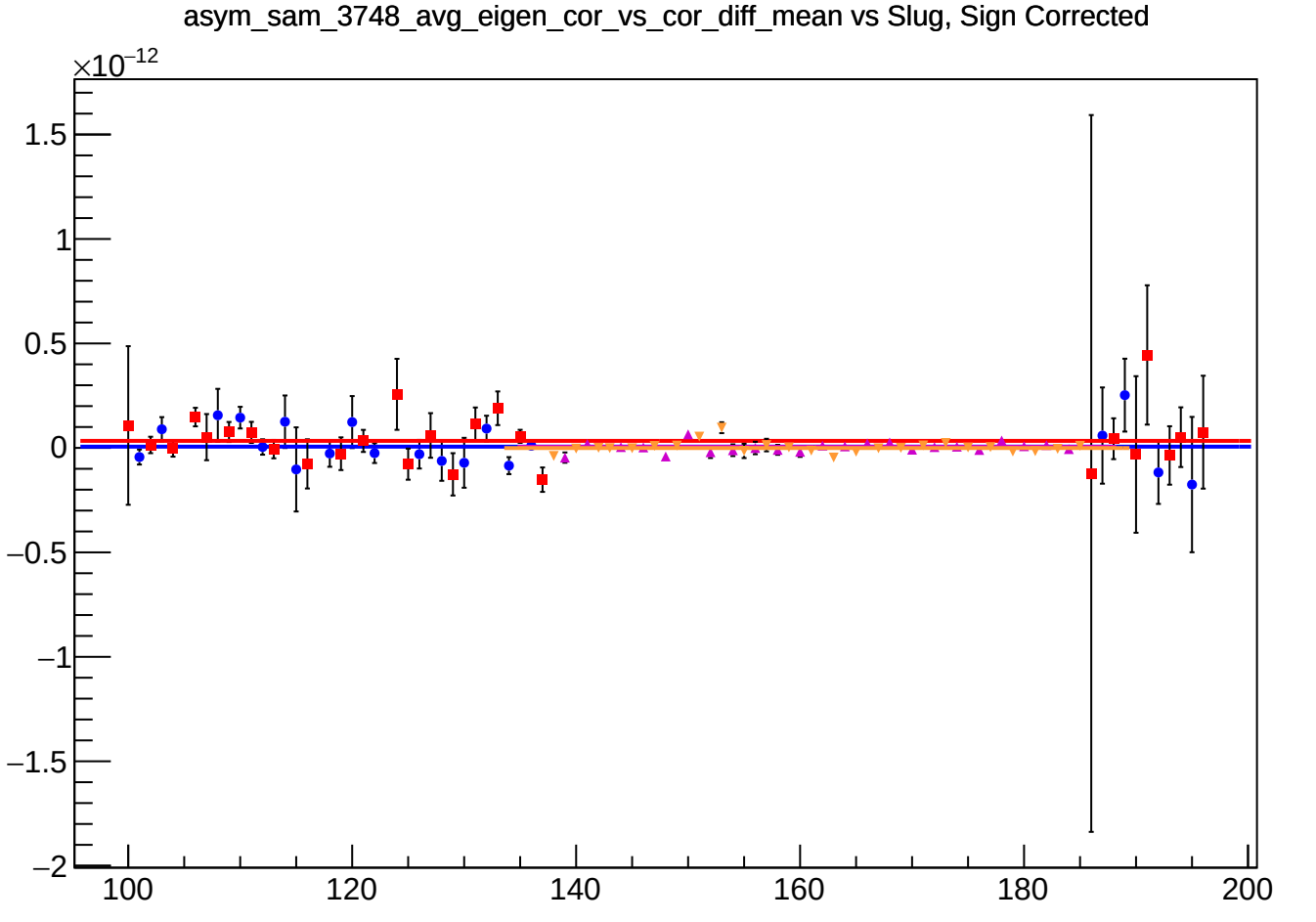
Left: 48.807+/-0.006 $\chi^2$/NDF: 7209310.4/47

Right: 37.258+/-0.006 $\chi^2$/NDF: 6665245.0/45

In: 43.380+/-0.006 $\chi^2$/NDF:6217660.7/42

Out: 43.116+/-0.006 $\chi^2$/NDF:9345896.9/50

All: 43.243+/-0.004 $\chi^2$/NDF: 15564441.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:37.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 35.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.4/22

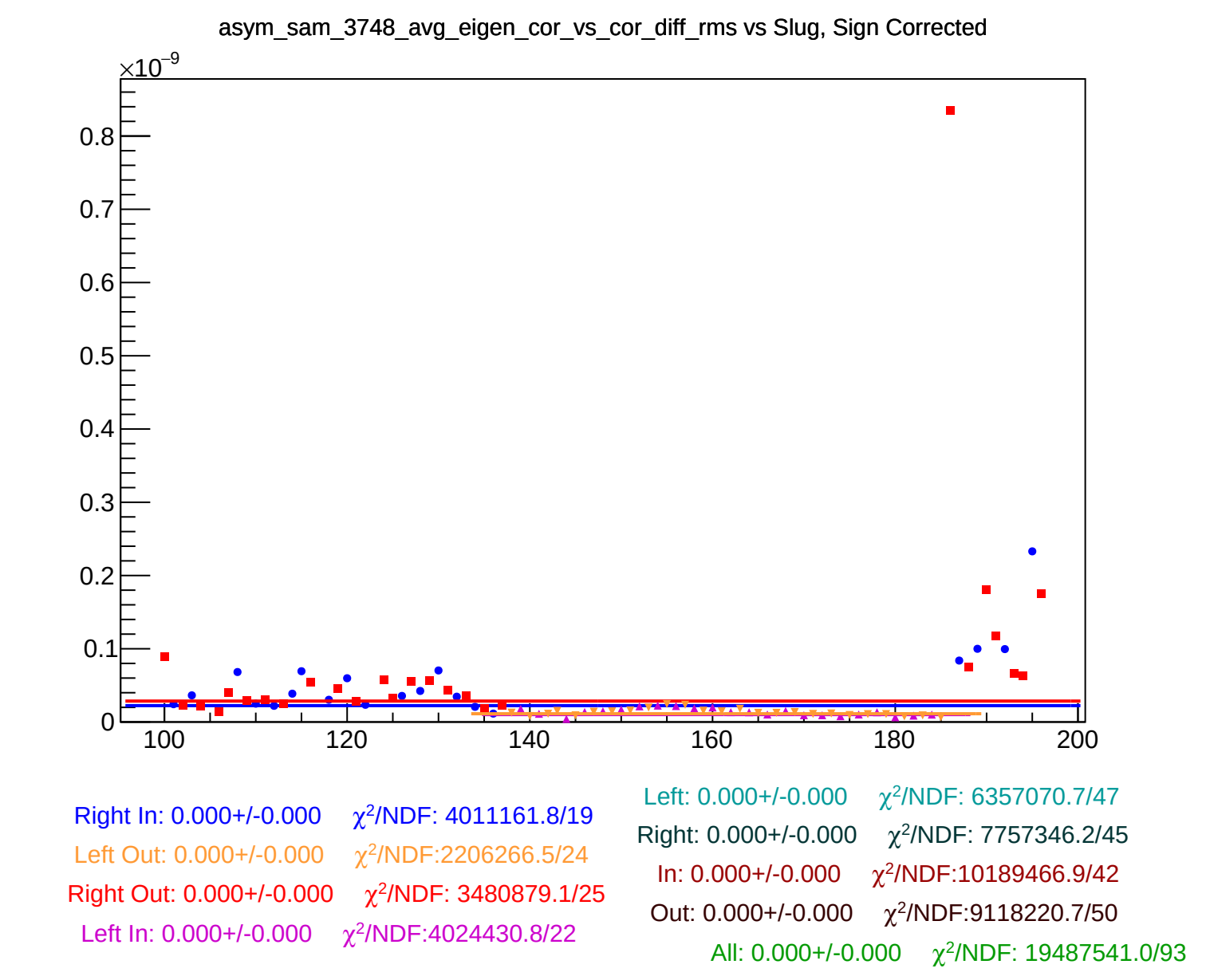
Left: 0.000+/-0.000 $\chi^2$/NDF: 67.2/47

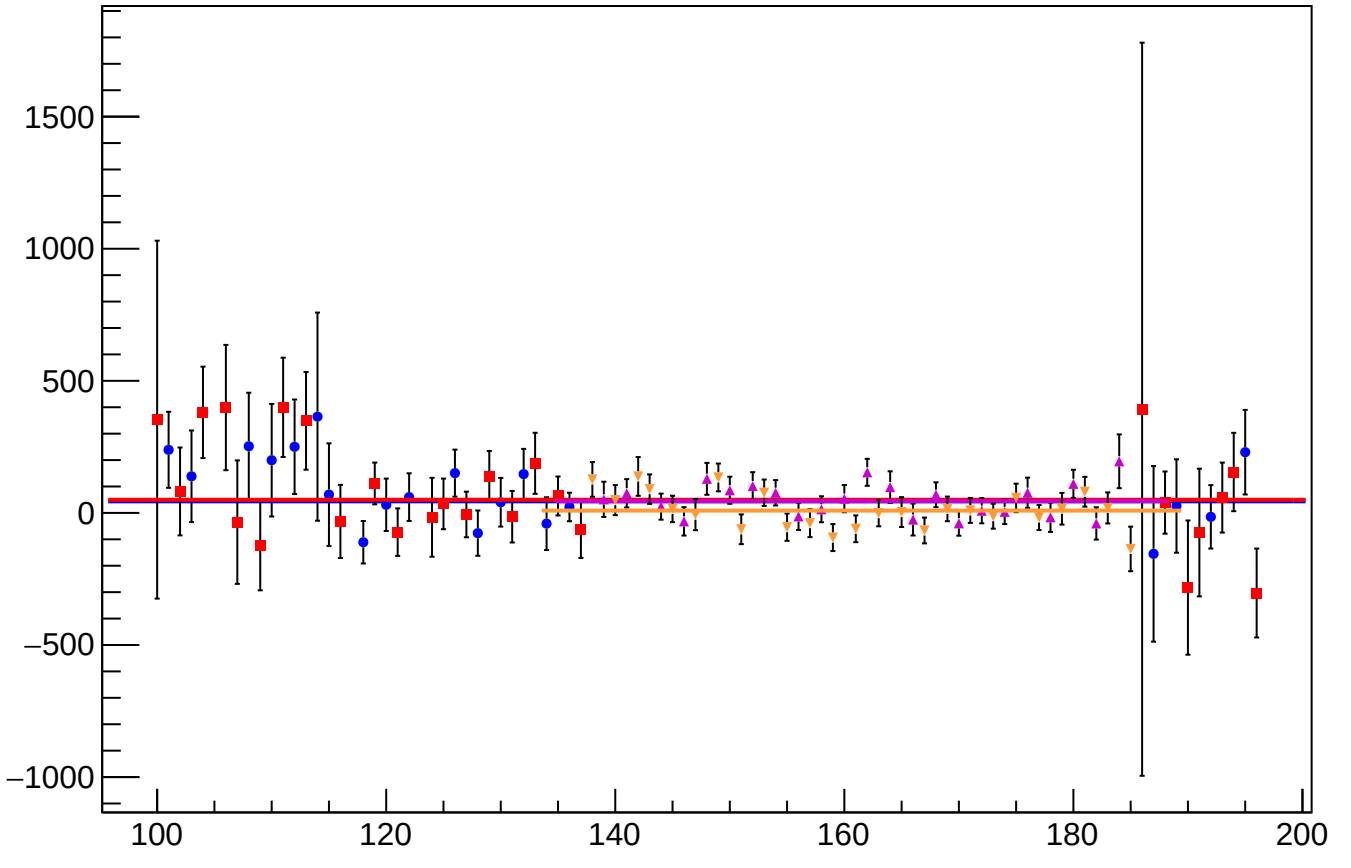
Right: 0.000+/-0.000 $\chi^2$/NDF: 64.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:55.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:79.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 135.0/93


asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4011161.8/19
Left Out: 0.000+/-0.000 χ²/NDF:2206266.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 3480879.1/25
Left In: 0.000+/-0.000 χ²/NDF:4024430.8/22
Left: 0.000+/-0.000 χ²/NDF: 6357070.7/47
Right: 0.000+/-0.000 χ²/NDF: 7757346.2/45
In: 0.000+/-0.000 χ²/NDF:10189466.9/42
Out: 0.000+/-0.000 χ²/NDF:9118220.7/50
All: 0.000+/-0.000 χ²/NDF: 19487541.0/93




Right In: 43.791+/-24.588 $\chi^2$/NDF: 16.9/19

Left Out: 8.756+/-10.770 $\chi^2$/NDF:34.6/24

Right Out: 49.683+/-24.802 $\chi^2$/NDF: 27.5/25

Left In: 44.541+/-11.149 $\chi^2$/NDF:27.0/22

Left: 26.030+/-7.746 $\chi^2$/NDF: 66.9/47

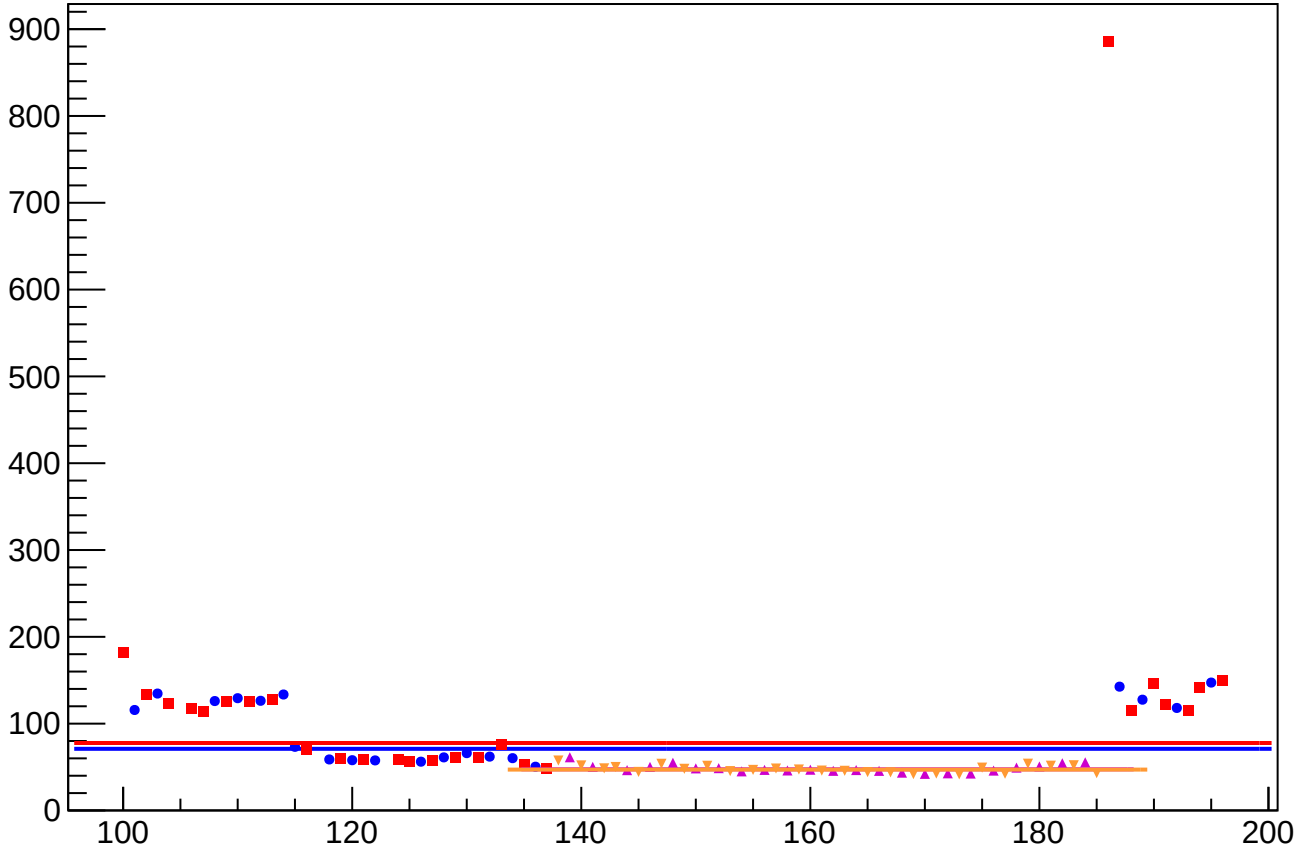
Right: 46.711+/-17.462 $\chi^2$/NDF: 44.5/45

In: 44.413+/-10.154 $\chi^2$/NDF:43.9/42

Out: 15.248+/-9.878 $\chi^2$/NDF:64.4/50

All: 29.430+/-7.080 $\chi^2$/NDF: 112.6/93

# reg_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 70.997+/-0.017 $\chi^2$/NDF: 2607020.2/19

Left Out: 47.064+/-0.008 $\chi^2$/NDF:287590.7/24

Right Out: 77.708+/-0.018 $\chi^2$/NDF: 3857923.3/25

Left In: 47.384+/-0.008 $\chi^2$/NDF:271036.5/22

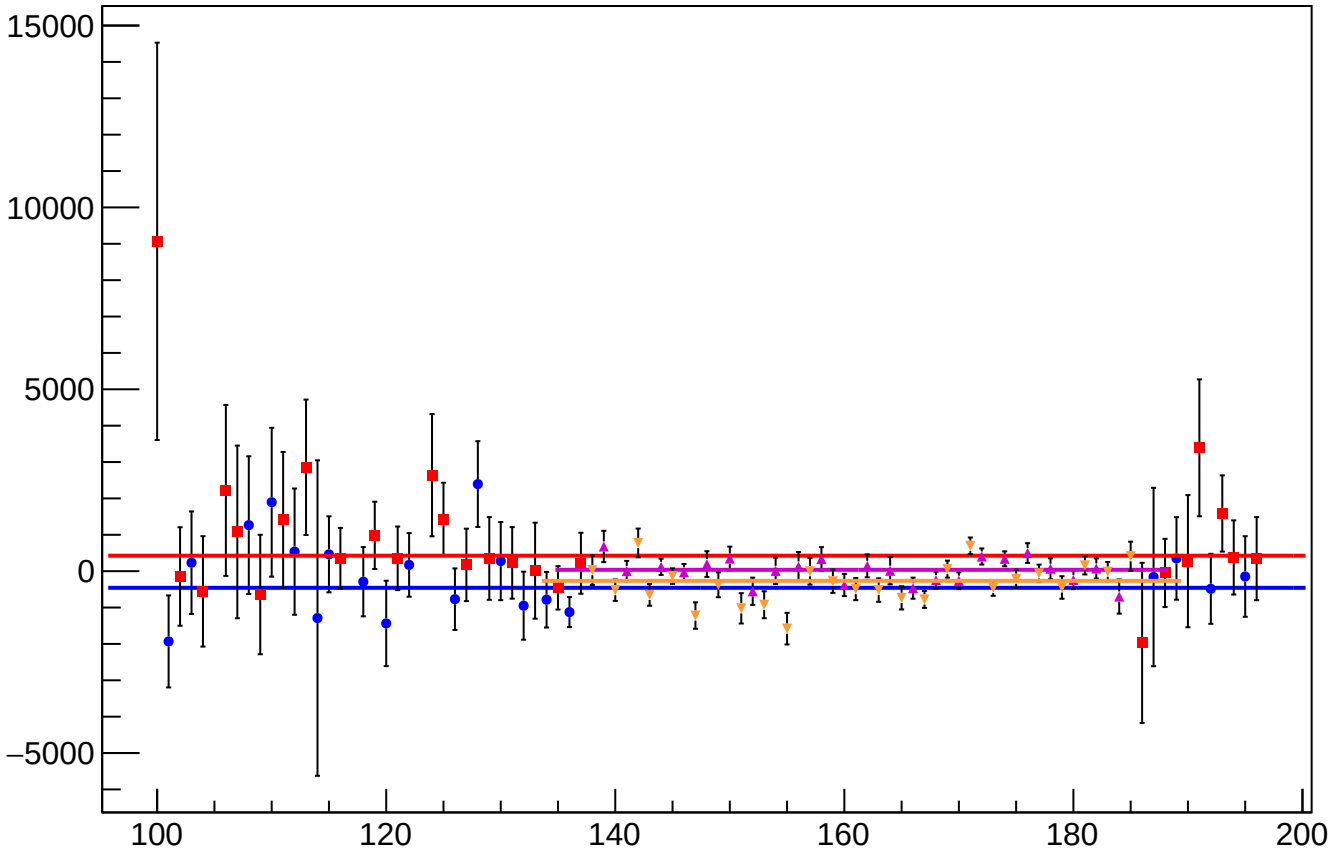
Left: 47.218+/-0.005 $\chi^2$/NDF: 559476.9/47

Right: 74.324+/-0.012 $\chi^2$/NDF: 6538802.7/45

In: 51.410+/-0.007 $\chi^2$/NDF:4408050.7/42

Out: 51.925+/-0.007 $\chi^2$/NDF:6714352.4/50

All: 51.675+/-0.005 $\chi^2$/NDF: 11125048.0/93




Right In: -457.362+/-220.055 $\chi^2$/NDF: 16.3/19

Left Out: -265.684+/-58.031 $\chi^2$/NDF:69.8/24

Right Out: 425.325+/-224.852 $\chi^2$/NDF: 16.9/25

Left In: 37.530+/-59.159 $\chi^2$/NDF:26.6/22

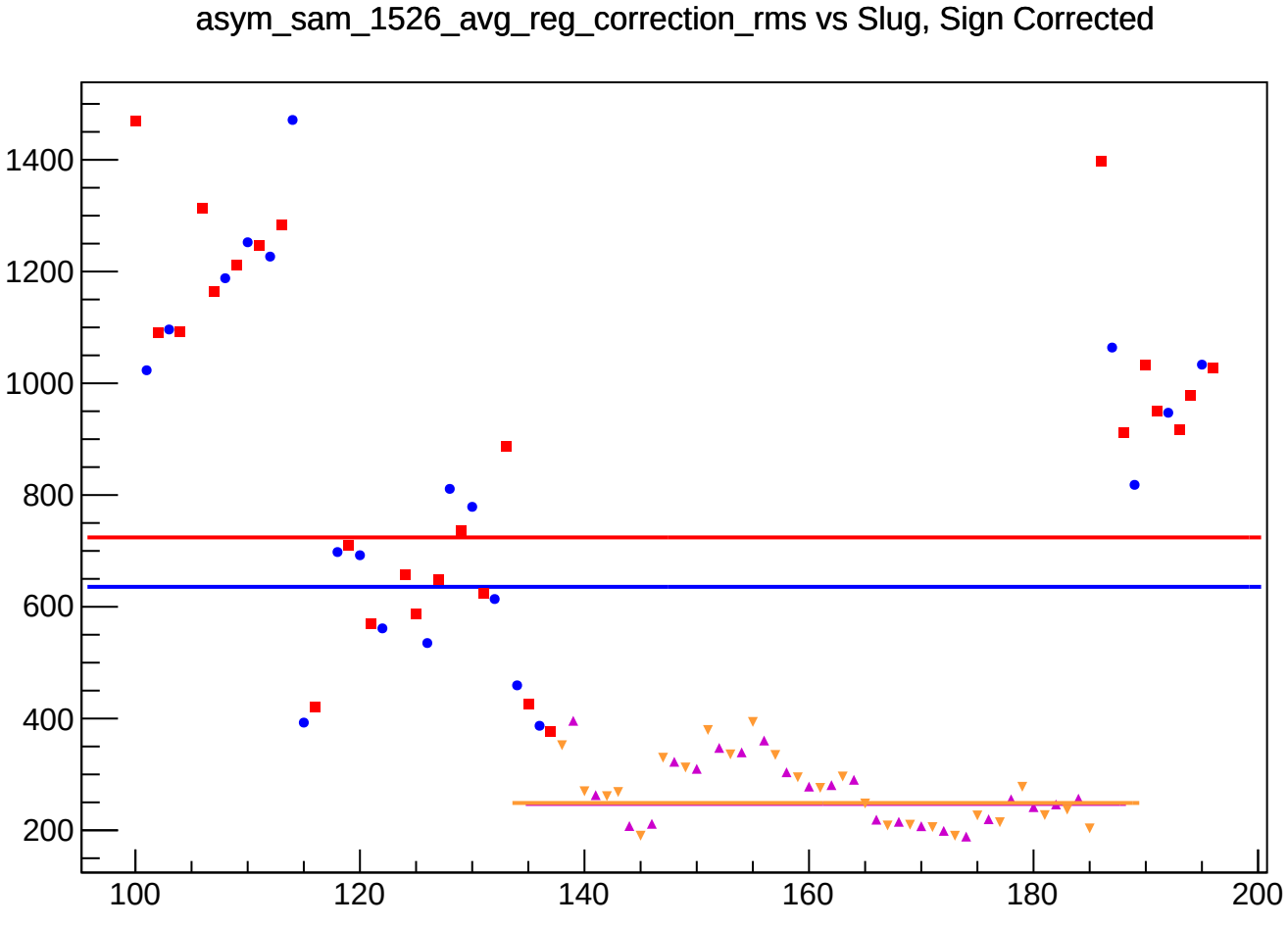
Left: -116.996+/-41.427 $\chi^2$/NDF: 109.8/47

Right: -25.535+/-157.271 $\chi^2$/NDF: 41.1/45

In: 4.172+/-57.131 $\chi^2$/NDF:47.6/42

Out: -222.531+/-56.190 $\chi^2$/NDF:95.6/50

All: -111.062+/-40.061 $\chi^2$/NDF: 151.2/93




Right In: 635.704+/-0.156 $\chi^2$/NDF: 2719193.9/19

Left Out: 248.891+/-0.041 $\chi^2$/NDF:1663709.5/24

Right Out: 724.174+/-0.159 $\chi^2$/NDF: 2970572.2/25

Left In: 247.109+/-0.042 $\chi^2$/NDF:1484450.6/22

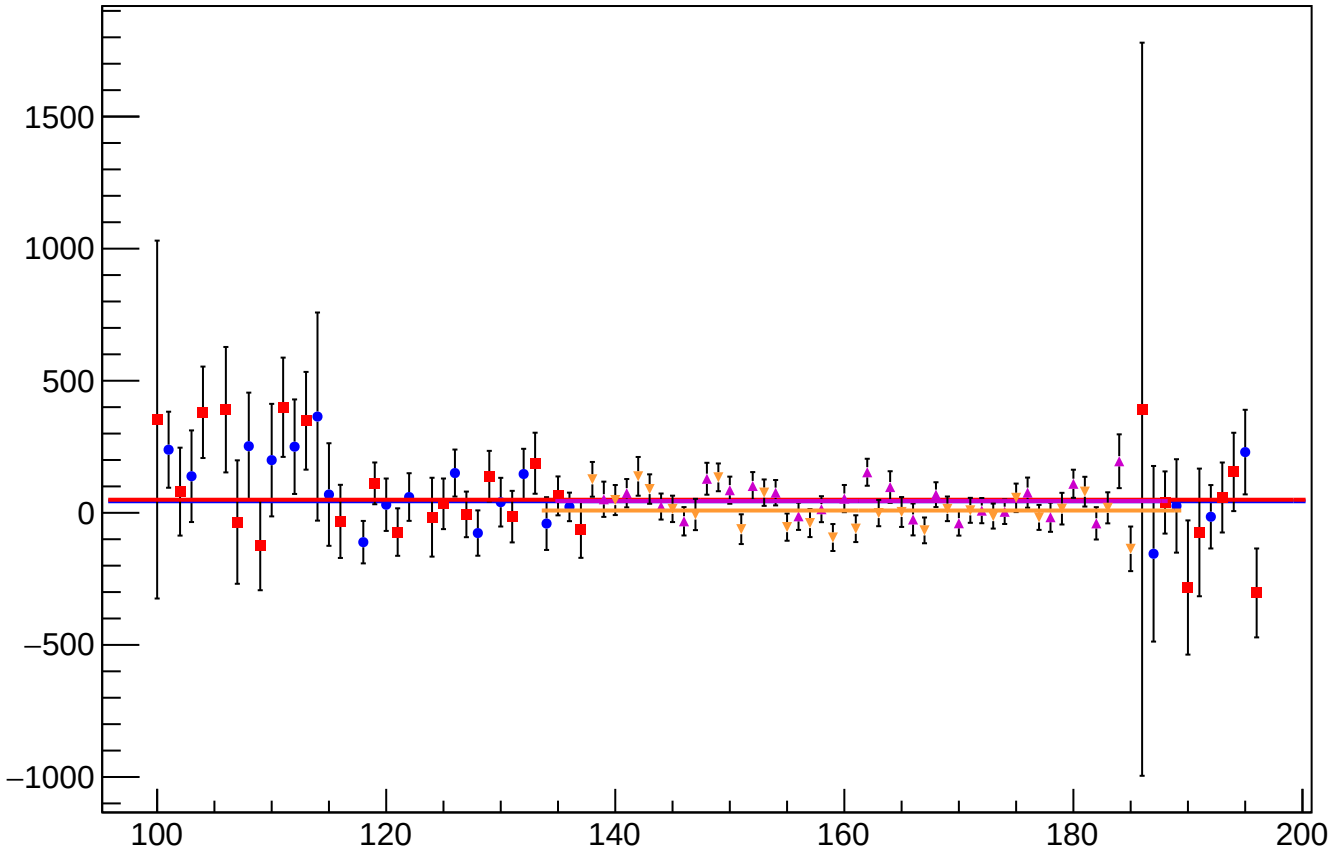
Left: 248.017+/-0.029 $\chi^2$/NDF: 3149084.7/47

Right: 678.985+/-0.111 $\chi^2$/NDF: 5847915.6/45

In: 273.302+/-0.040 $\chi^2$/NDF:10020052.6/42

Out: 278.572+/-0.040 $\chi^2$/NDF:13012204.4/50

All: 275.980+/-0.028 $\chi^2$/NDF: 23040908.0/93




Right In: 43.784+/-24.588 $\chi^2$/NDF: 16.9/19

Left Out: 8.758+/-10.770 $\chi^2$/NDF:34.6/24

Right Out: 49.554+/-24.803 $\chi^2$/NDF: 27.4/25

Left In: 44.540+/-11.149 $\chi^2$/NDF:27.0/22

Left: 26.030+/-7.746 $\chi^2$/NDF: 66.9/47

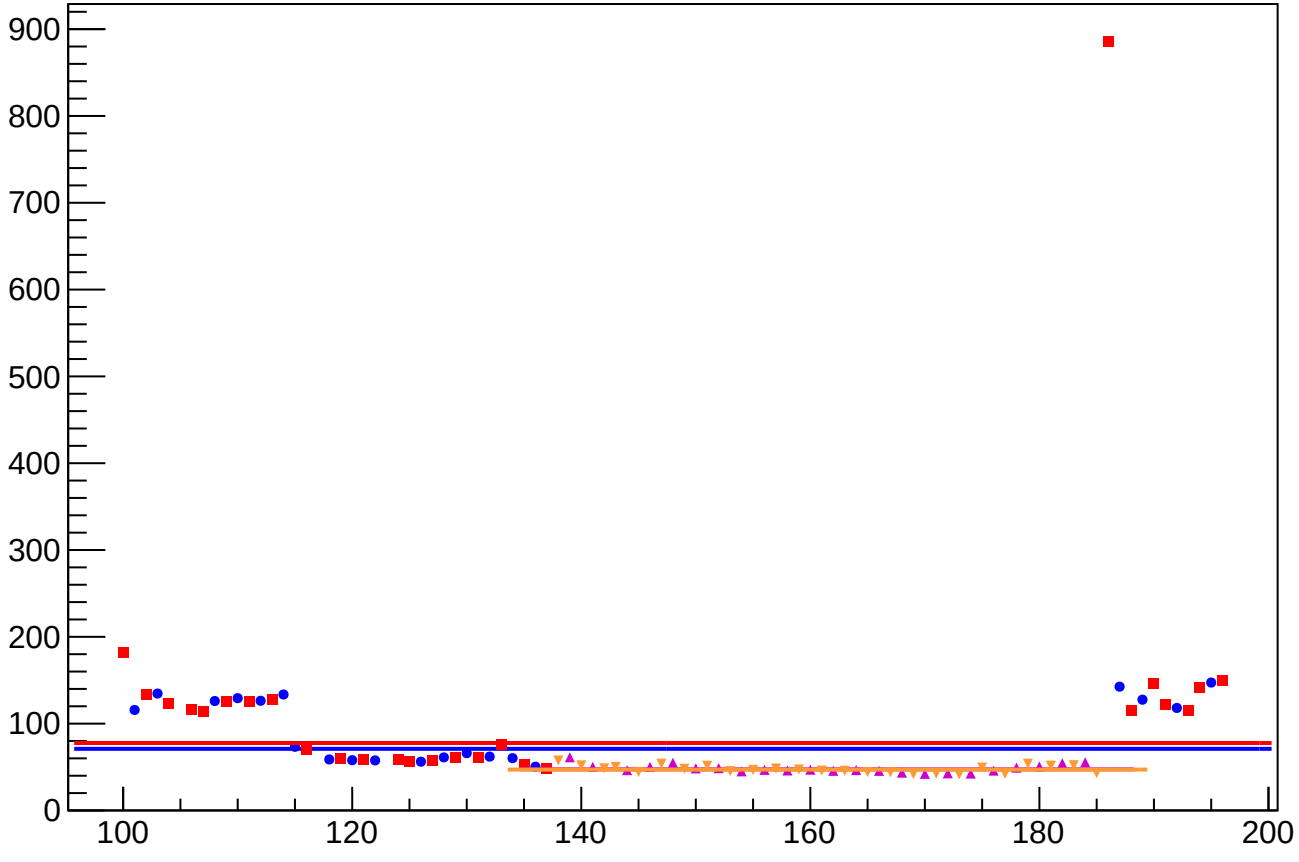
Right: 46.644+/-17.462 $\chi^2$/NDF: 44.3/45

In: 44.411+/-10.154 $\chi^2$/NDF:43.9/42

Out: 15.229+/-9.879 $\chi^2$/NDF:64.3/50

All: 29.420+/-7.080 $\chi^2$/NDF: 112.5/93

# cor_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 70.997+/-0.017 $\chi^2$/NDF: 2607022.5/19

Left Out: 47.064+/-0.008 $\chi^2$/NDF:287590.7/24

Right Out: 77.697+/-0.018 $\chi^2$/NDF: 3855290.0/25

Left In: 47.384+/-0.008 $\chi^2$/NDF:271036.5/22

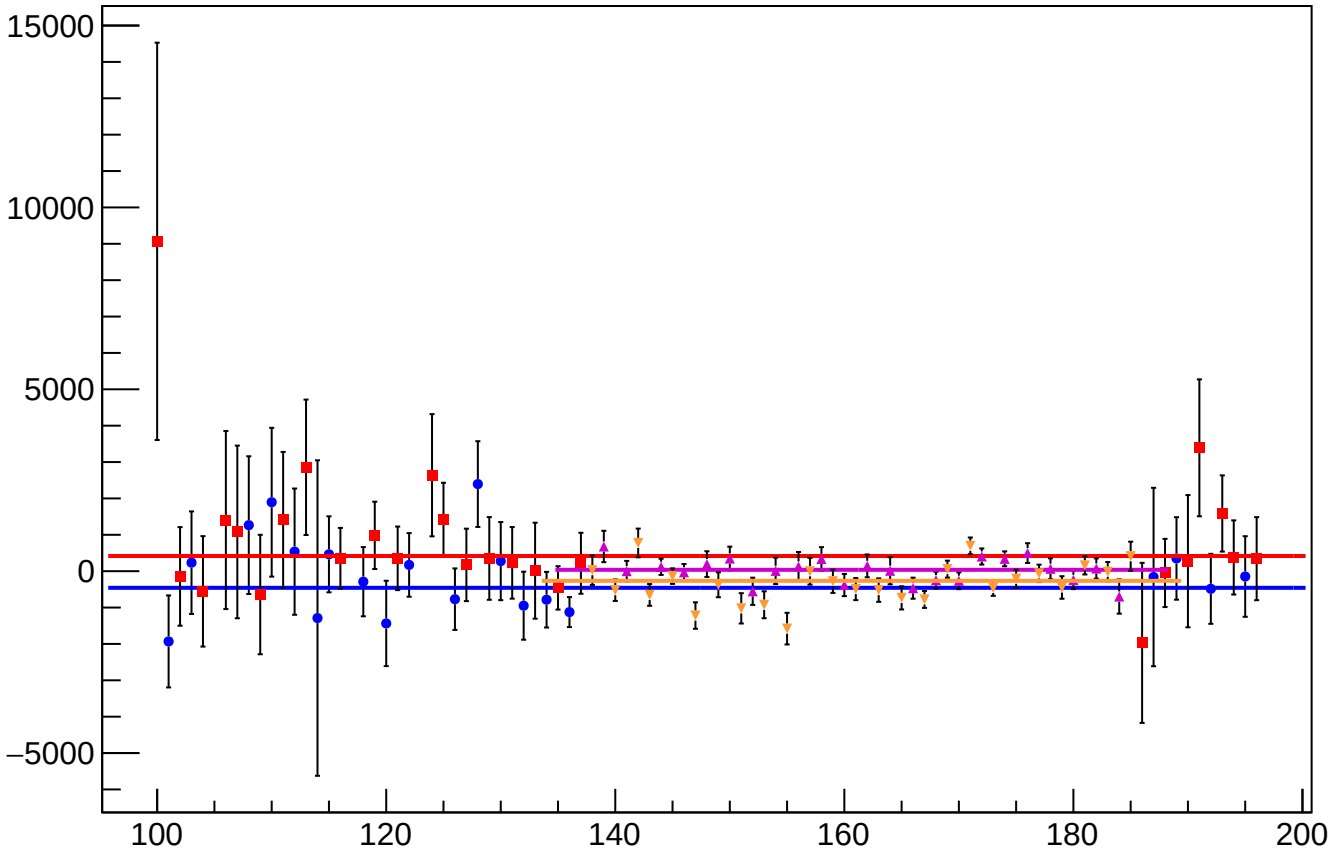
Left: 47.218+/-0.005 $\chi^2$/NDF: 559476.9/47

Right: 74.318+/-0.012 $\chi^2$/NDF: 6535910.0/45

In: 51.410+/-0.007 $\chi^2$/NDF:4408052.7/42

Out: 51.923+/-0.007 $\chi^2$/NDF:6709631.9/50

All: 51.674+/-0.005 $\chi^2$/NDF: 11120308.2/93




Right In: -457.347+/-220.055 $\chi^2$/NDF: 16.3/19

Left Out: -265.680+/-58.031 $\chi^2$/NDF:69.8/24

Right Out: 417.242+/-224.938 $\chi^2$/NDF: 16.5/25

Left In: 37.527+/-59.159 $\chi^2$/NDF:26.6/22

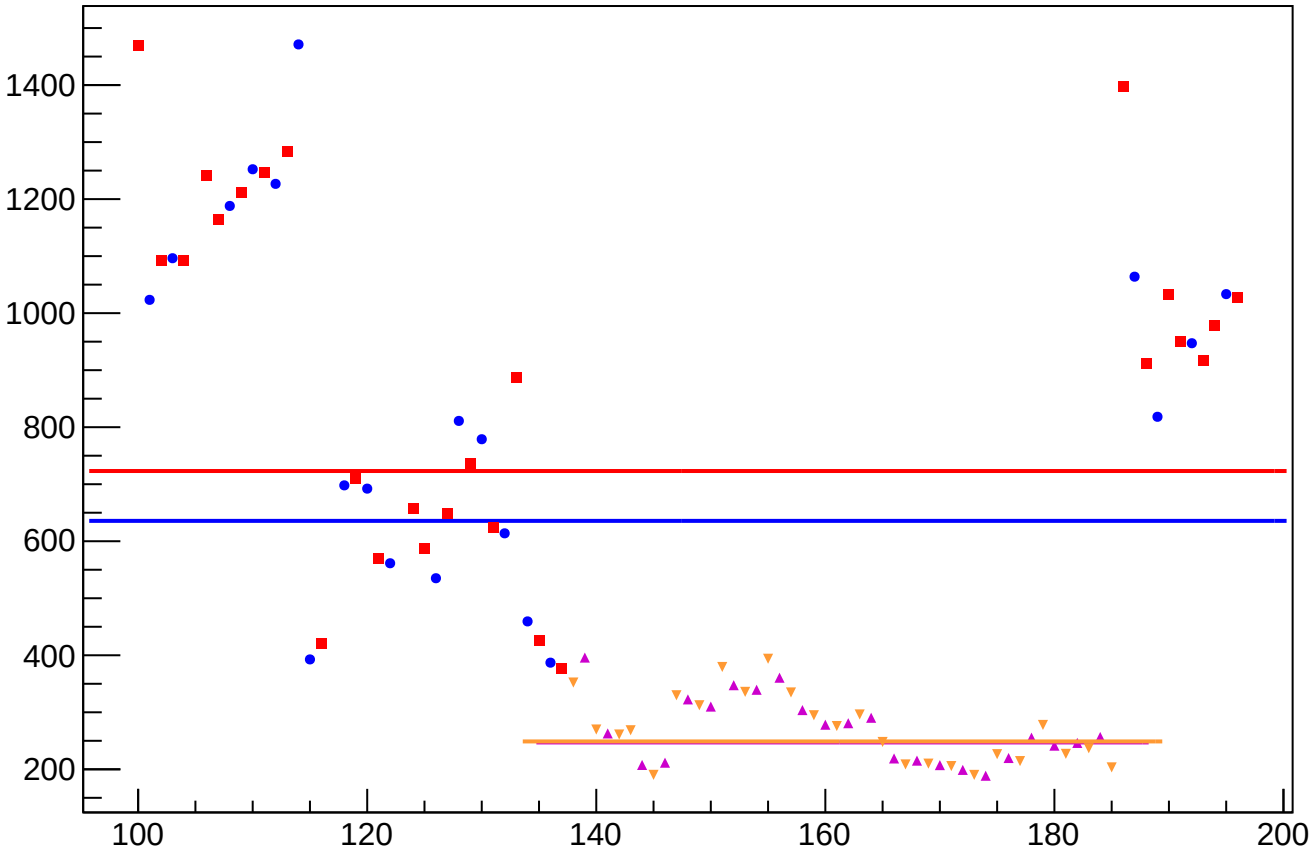
Left: -116.996+/-41.427 $\chi^2$/NDF: 109.8/47

Right: -29.647+/-157.300 $\chi^2$/NDF: 40.5/45

In: 4.171+/-57.131 $\chi^2$/NDF:47.6/42

Out: -223.063+/-56.191 $\chi^2$/NDF:94.9/50

All: -111.330+/-40.061 $\chi^2$/NDF: 150.6/93




Right In: 635.704+/-0.156 $\chi^2$/NDF: 2719233.0/19

Left Out: 248.891+/-0.041 $\chi^2$/NDF:1663717.9/24

Right Out: 723.150+/-0.159 $\chi^2$/NDF: 2934505.1/25

Left In: 247.109+/-0.042 $\chi^2$/NDF:1484445.1/22

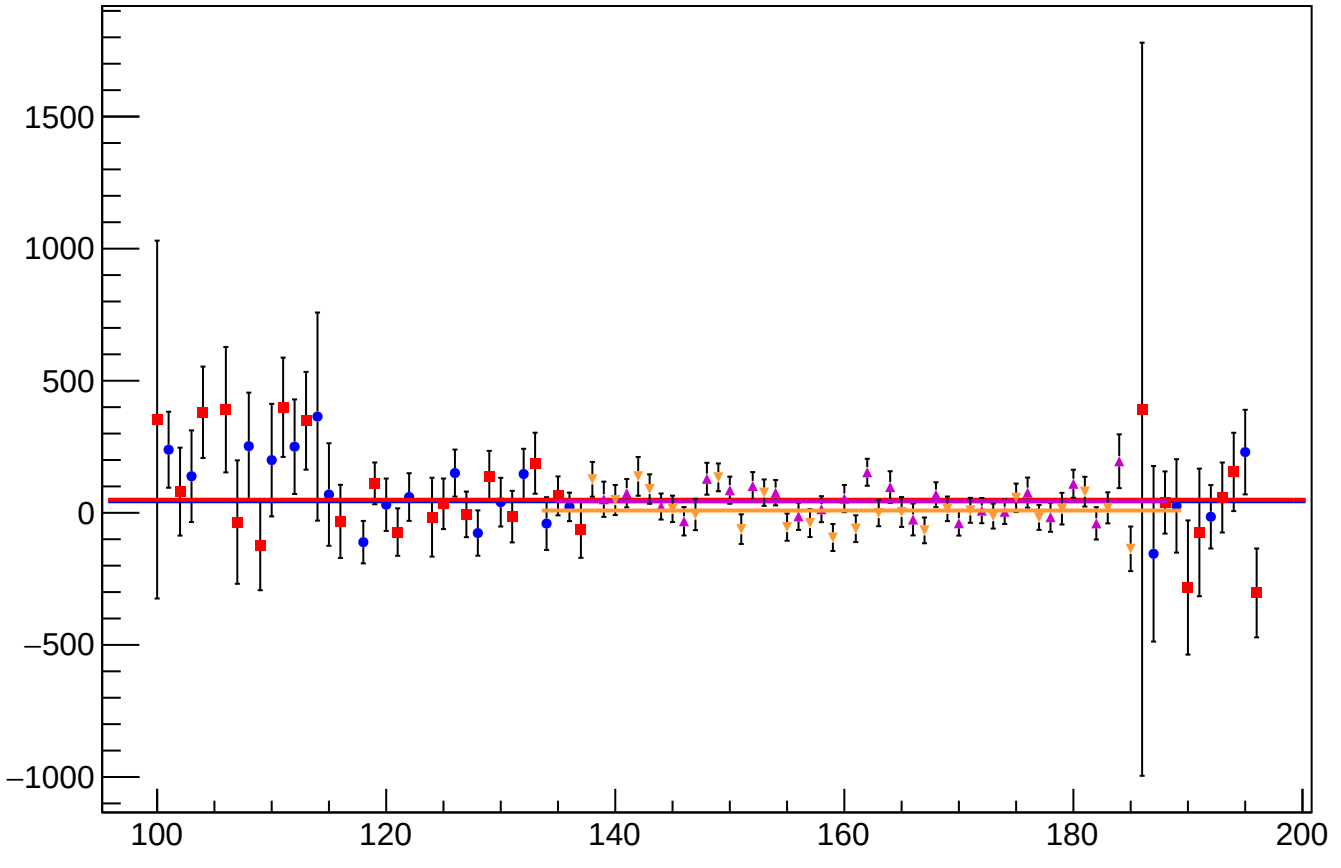
Left: 248.017+/-0.029 $\chi^2$/NDF: 3149087.2/47

Right: 678.467+/-0.111 $\chi^2$/NDF: 5808186.1/45

In: 273.302+/-0.040 $\chi^2$/NDF:10020064.0/42

Out: 278.486+/-0.040 $\chi^2$/NDF:12934124.0/50

All: 275.937+/-0.028 $\chi^2$/NDF: 22962560.9/93




Right In: 43.784+/-24.588 $\chi^2$/NDF: 16.9/19

Left Out: 8.758+/-10.770 $\chi^2$/NDF:34.6/24

Right Out: 49.554+/-24.803 $\chi^2$/NDF: 27.4/25

Left In: 44.540+/-11.149 $\chi^2$/NDF:27.0/22

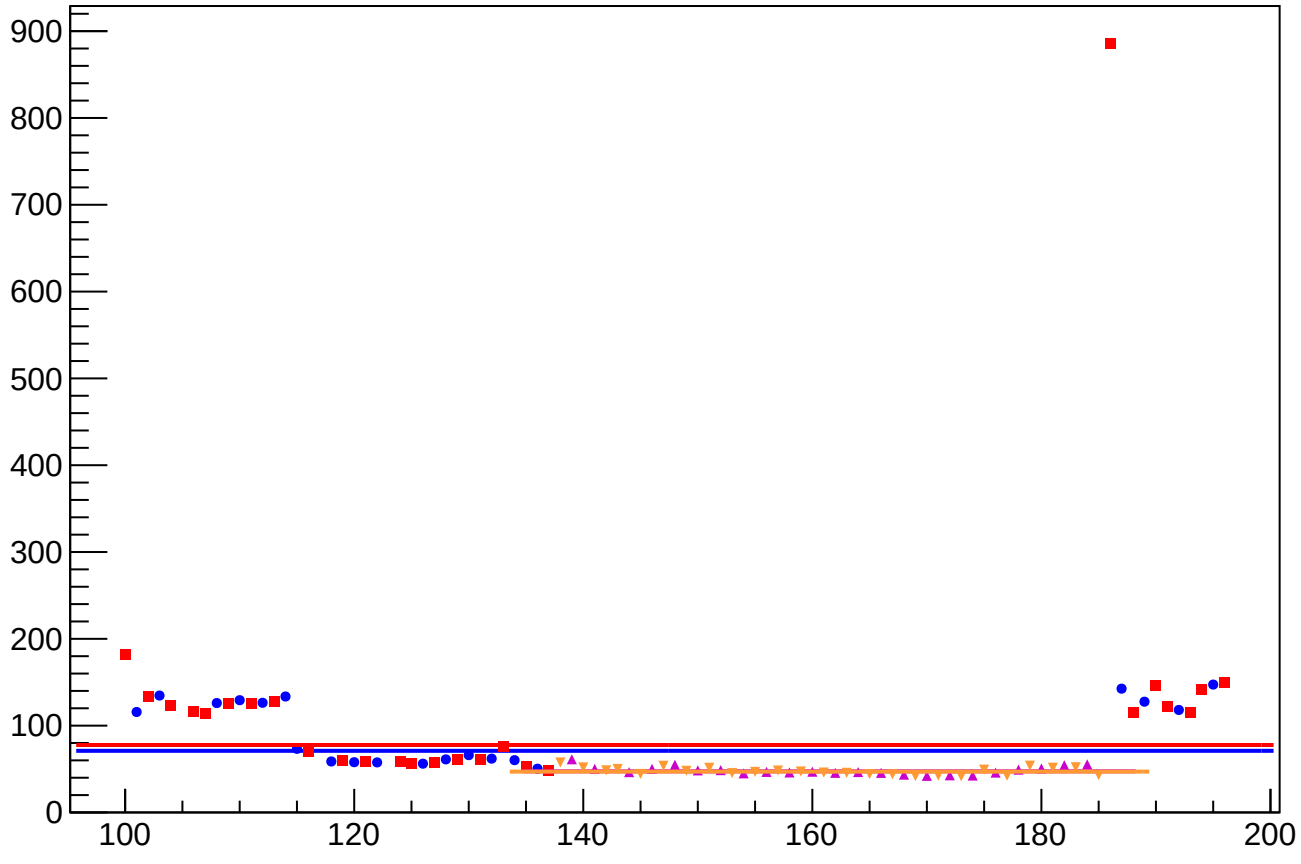
Left: 26.030+/-7.746 $\chi^2$/NDF: 66.9/47

Right: 46.644+/-17.462 $\chi^2$/NDF: 44.3/45

In: 44.411+/-10.154 $\chi^2$/NDF:43.9/42

Out: 15.229+/-9.879 $\chi^2$/NDF:64.3/50

All: 29.420+/-7.080 $\chi^2$/NDF: 112.5/93




Right In: 70.997+/-0.017 $\chi^2$/NDF: 2607022.5/19

Left Out: 47.064+/-0.008 $\chi^2$/NDF:287590.7/24

Right Out: 77.697+/-0.018 $\chi^2$/NDF: 3855290.0/25

Left In: 47.384+/-0.008 $\chi^2$/NDF:271036.5/22

Left: 47.218+/-0.005 $\chi^2$/NDF: 559476.9/47

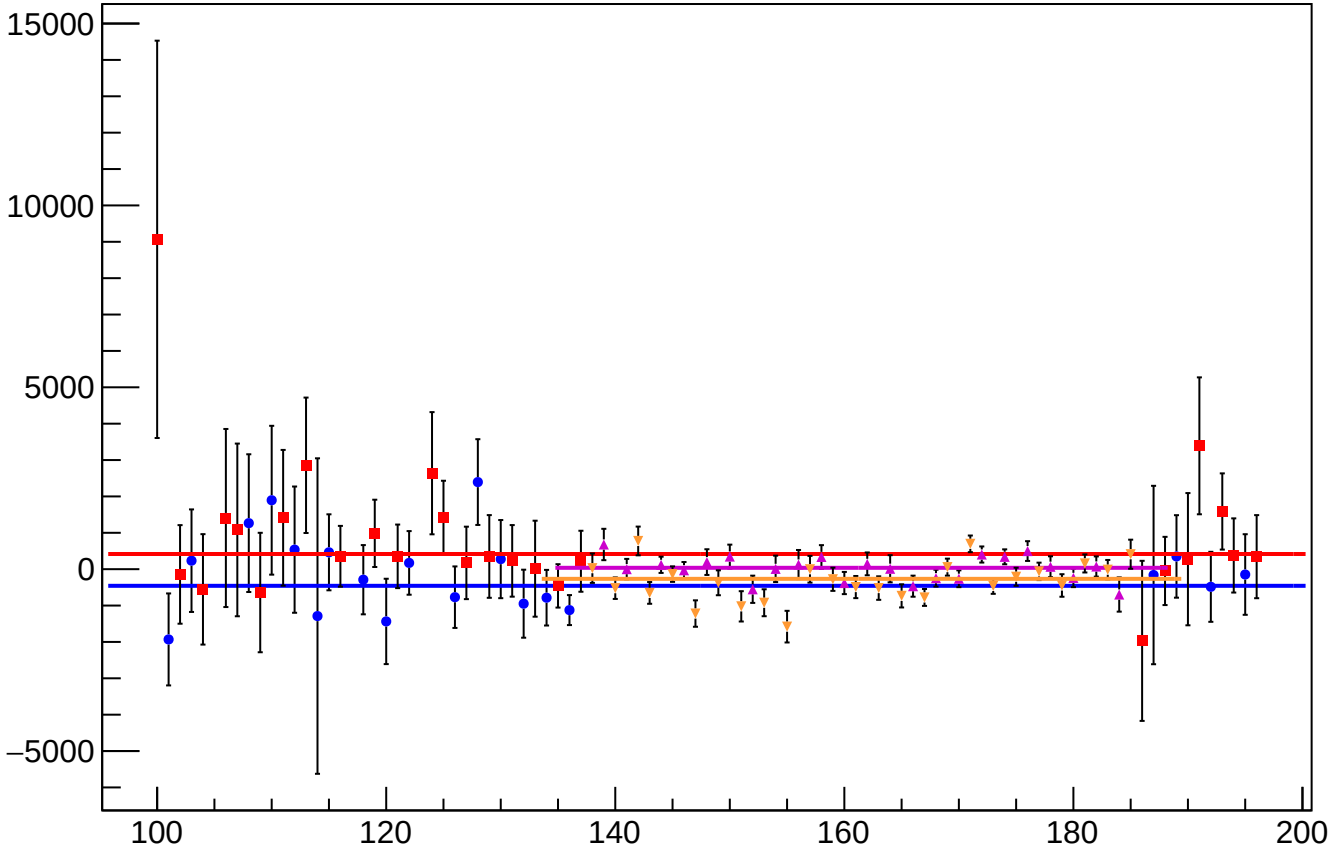
Right: 74.318+/-0.012 $\chi^2$/NDF: 6535910.0/45

In: 51.410+/-0.007 $\chi^2$/NDF:4408052.7/42

Out: 51.923+/-0.007 $\chi^2$/NDF:6709631.9/50

All: 51.674+/-0.005 $\chi^2$/NDF: 11120308.2/93

asym_sam_1526_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -457.347+/-220.055 $\chi^2$/NDF: 16.3/19

Left Out: -265.680+/-58.031 $\chi^2$/NDF:69.8/24

Right Out: 417.242+/-224.938 $\chi^2$/NDF: 16.5/25

Left In: 37.527+/-59.159 $\chi^2$/NDF:26.6/22

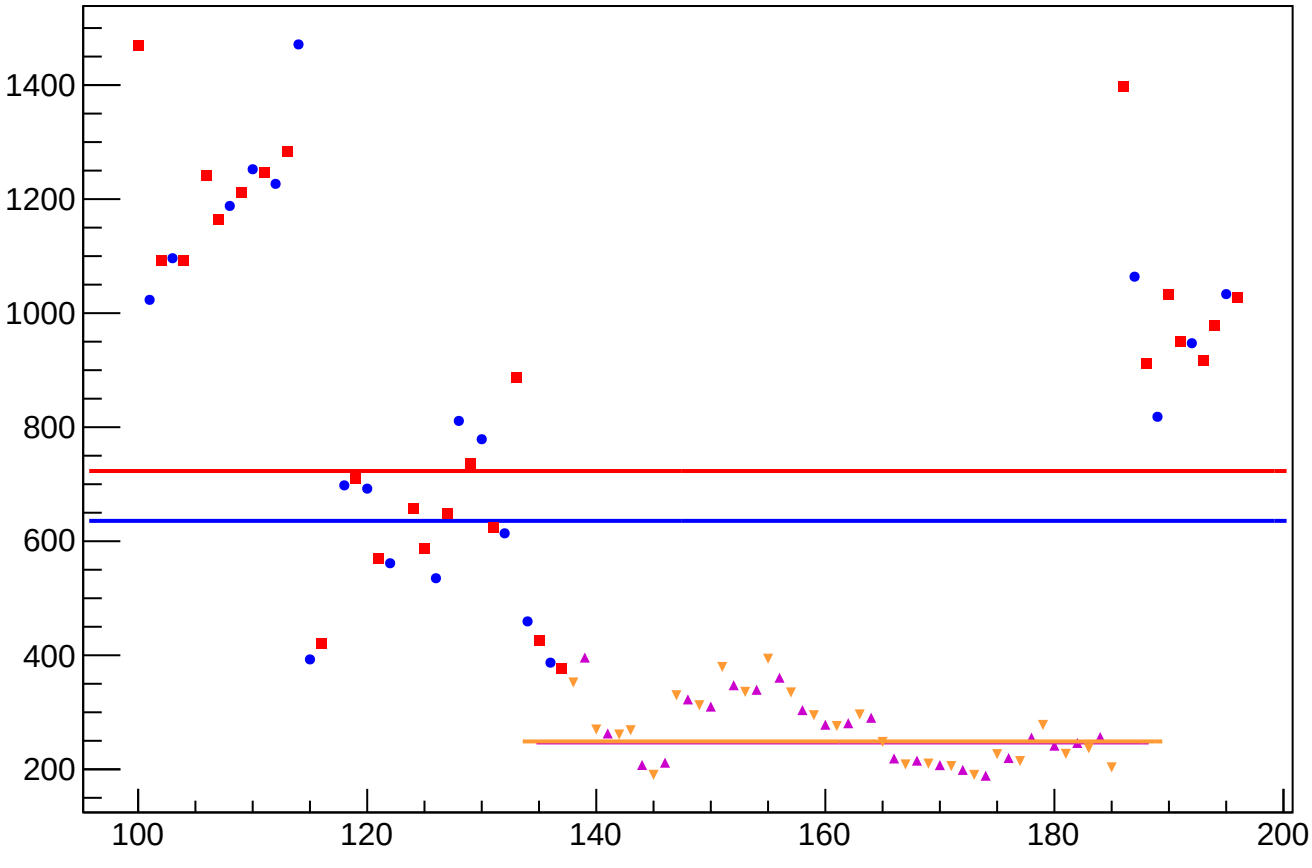
Left: -116.996+/-41.427 $\chi^2$/NDF: 109.8/47

Right: -29.647+/-157.300 $\chi^2$/NDF: 40.5/45

In: 4.171+/-57.131 $\chi^2$/NDF:47.6/42

Out: -223.063+/-56.191 $\chi^2$/NDF:94.9/50

All: -111.330+/-40.061 $\chi^2$/NDF: 150.6/93




Right In: 635.704+/-0.156 $\chi^2$/NDF: 2719233.0/19

Left Out: 248.891+/-0.041 $\chi^2$/NDF:1663717.9/24

Right Out: 723.150+/-0.159 $\chi^2$/NDF: 2934505.1/25

Left In: 247.109+/-0.042 $\chi^2$/NDF:1484445.1/22

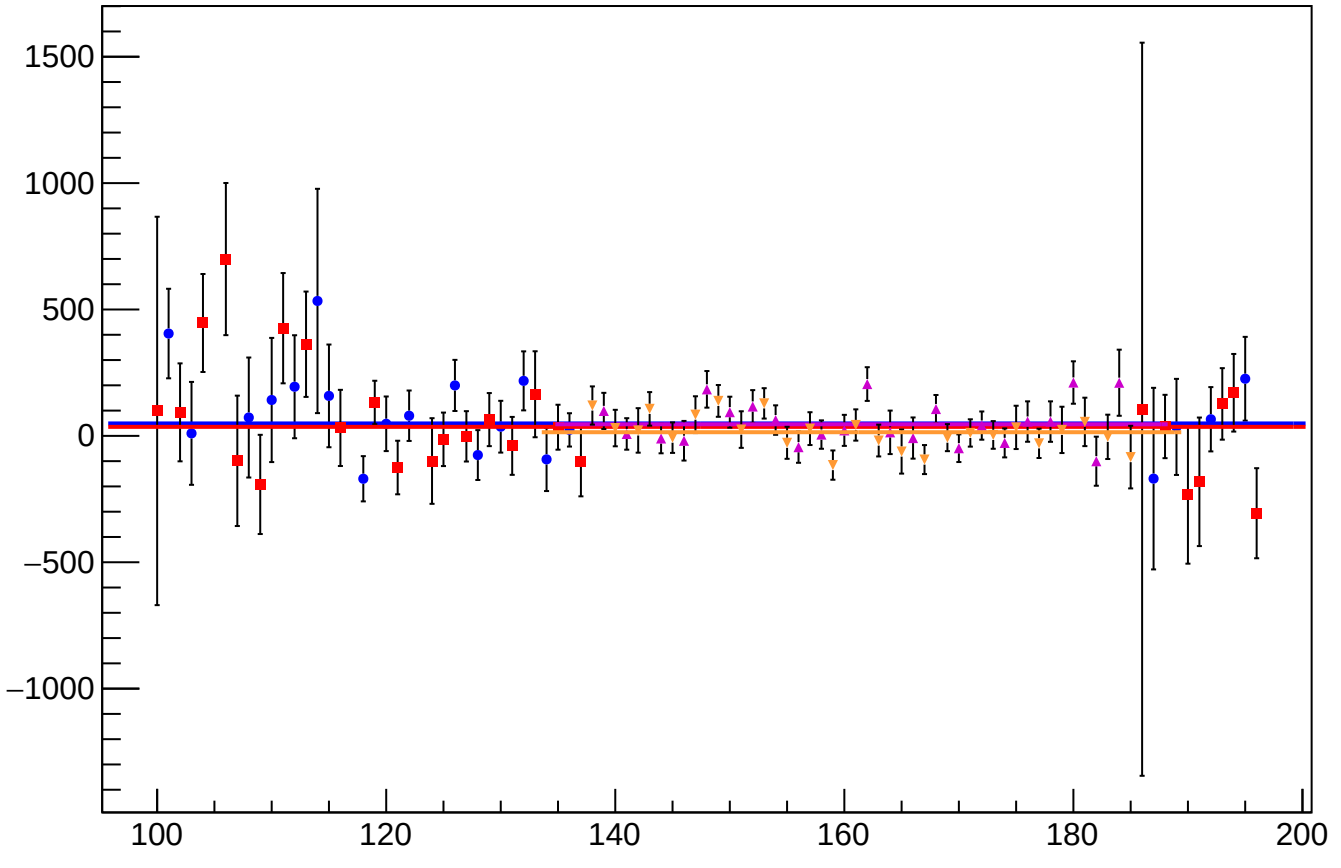
Left: 248.017+/-0.029 $\chi^2$/NDF: 3149087.2/47

Right: 678.467+/-0.111 $\chi^2$/NDF: 5808186.1/45

In: 273.302+/-0.040 $\chi^2$/NDF:10020064.0/42

Out: 278.486+/-0.040 $\chi^2$/NDF:12934124.0/50

All: 275.937+/-0.028 $\chi^2$/NDF: 22962560.9/93




Right In: 49.208+/-28.267 $\chi^2$/NDF: 21.2/19

Left Out: 14.498+/-13.454 $\chi^2$/NDF:24.5/24

Right Out: 35.699+/-28.385 $\chi^2$/NDF: 29.9/25

Left In: 45.806+/-13.931 $\chi^2$/NDF:30.7/22

Left: 29.607+/-9.678 $\chi^2$/NDF: 57.9/47

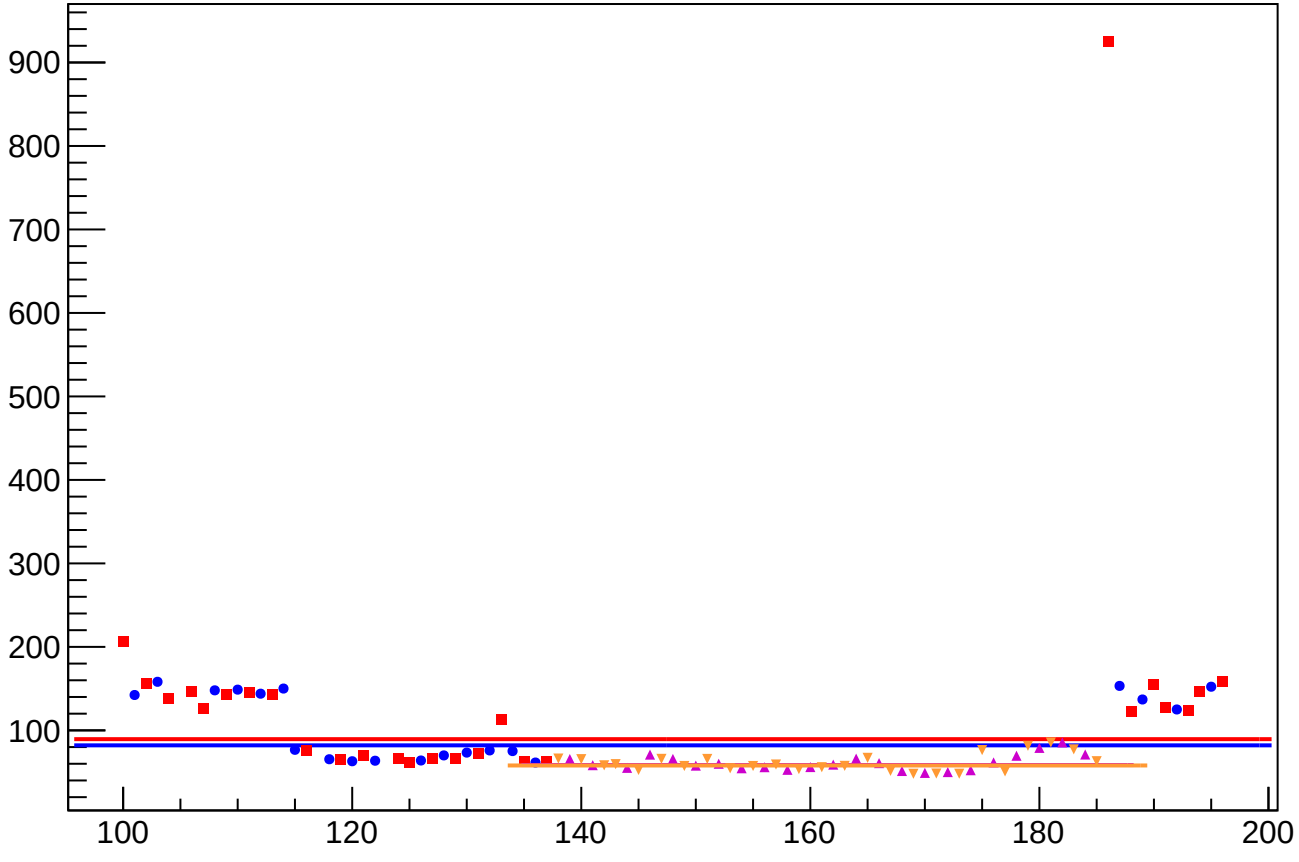
Right: 42.481+/-20.029 $\chi^2$/NDF: 51.2/45

In: 46.471+/-12.496 $\chi^2$/NDF:51.9/42

Out: 18.387+/-12.158 $\chi^2$/NDF:54.9/50

All: 32.044+/-8.714 $\chi^2$/NDF: 109.4/93

# dit_asym_sam_1526_avg_rms vs Slug, Sign Corrected




Right In: 82.061+/-0.020 $\chi^2$/NDF: 2393469.4/19

Left Out: 57.965+/-0.010 $\chi^2$/NDF:896947.4/24

Right Out: 89.474+/-0.020 $\chi^2$/NDF: 3543673.8/25

Left In: 58.479+/-0.010 $\chi^2$/NDF:649919.9/22

Left: 58.213+/-0.007 $\chi^2$/NDF: 1548274.7/47

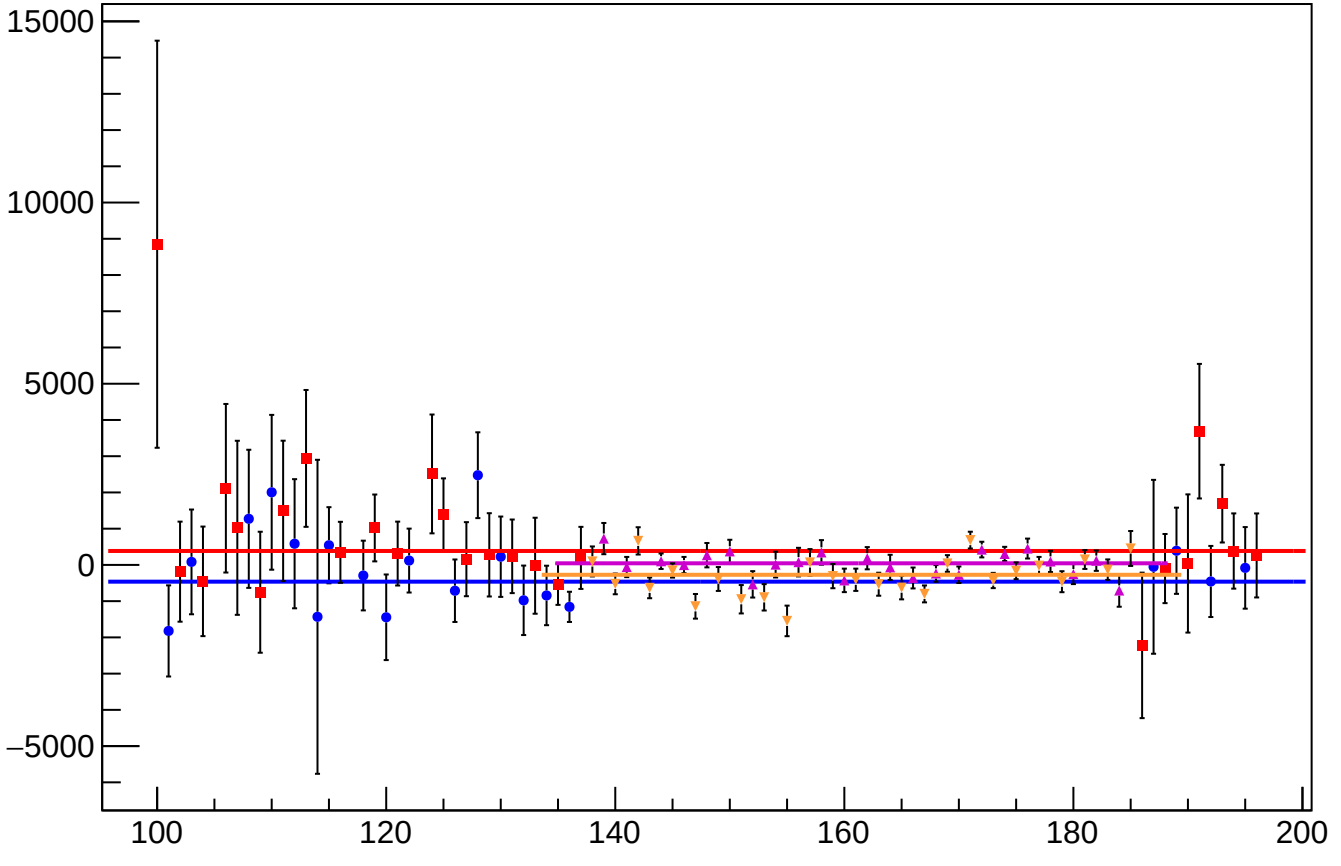
Right: 85.752+/-0.014 $\chi^2$/NDF: 6005634.3/45

In: 63.088+/-0.009 $\chi^2$/NDF:4163357.8/42

Out: 63.746+/-0.009 $\chi^2$/NDF:6452907.7/50

All: 63.426+/-0.006 $\chi^2$/NDF: 10619112.8/93

asym_sam_1526_avg_dit_correction_mean vs Slug, Sign Corrected




Right In: -462.210+/-224.280 $\chi^2$/NDF: 16.5/19

Left Out: -272.513+/-57.274 $\chi^2$/NDF:65.8/24

Right Out: 384.692+/-225.645 $\chi^2$/NDF: 18.6/25

Left In: 44.553+/-58.614 $\chi^2$/NDF:26.5/22

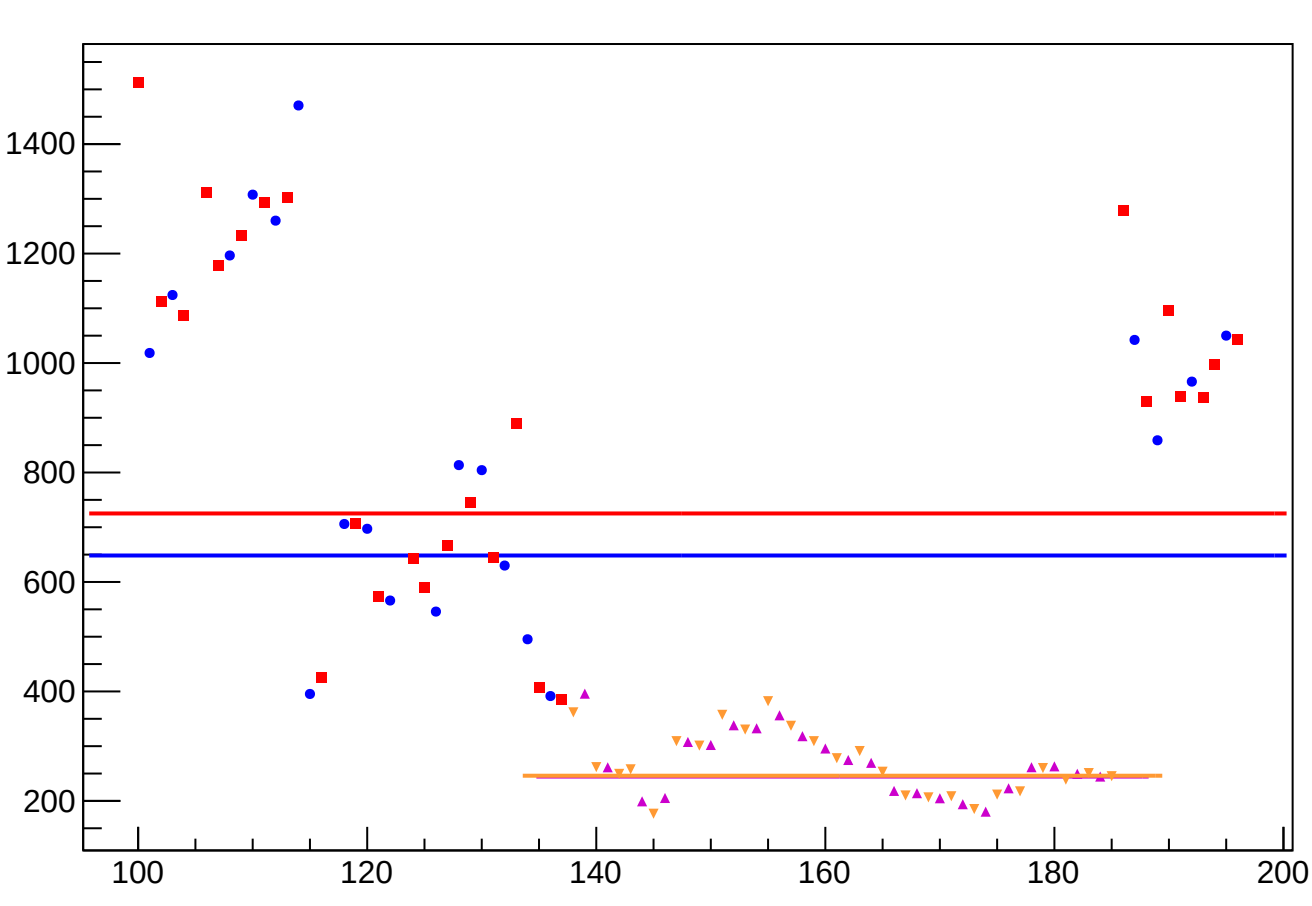
Left: -117.646+/-40.964 $\chi^2$/NDF: 107.2/47

Right: -41.329+/-159.070 $\chi^2$/NDF: 42.2/45

In: 12.153+/-56.710 $\chi^2$/NDF:47.8/42

Out: -232.735+/-55.514 $\chi^2$/NDF:92.3/50

All: -112.900+/-39.670 $\chi^2$/NDF: 149.6/93




Right In: 648.362+/-0.159 $\chi^2$/NDF: 2715573.4/19

Left Out: 246.017+/-0.040 $\chi^2$/NDF:1680565.1/24

Right Out: 725.164+/-0.160 $\chi^2$/NDF: 3106382.7/25

Left In: 244.450+/-0.041 $\chi^2$/NDF:1596988.0/22

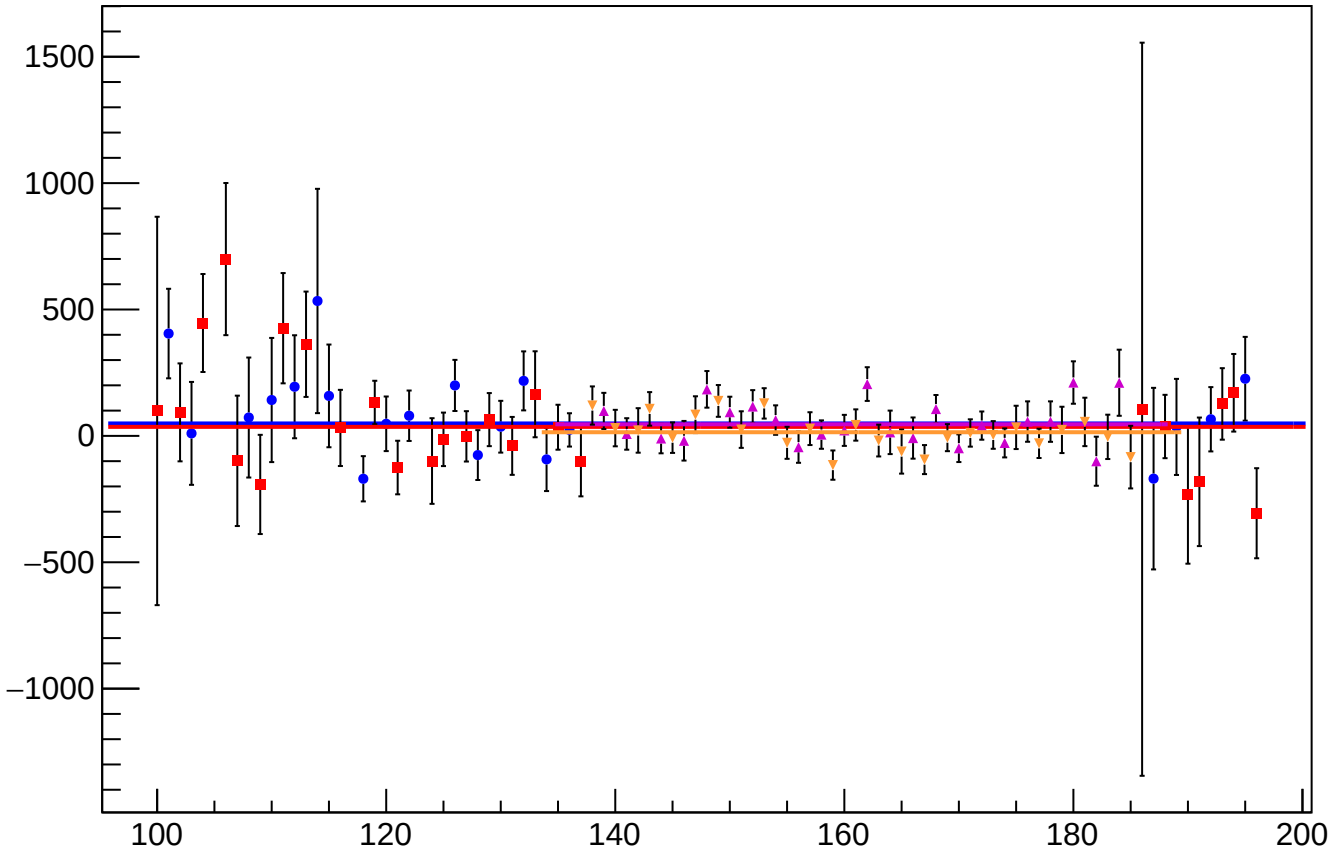
Left: 245.251+/-0.029 $\chi^2$/NDF: 3278284.0/47

Right: 686.530+/-0.112 $\chi^2$/NDF: 5938510.5/45

In: 270.274+/-0.040 $\chi^2$/NDF:10384528.9/42

Out: 275.018+/-0.039 $\chi^2$/NDF:13259250.6/50

All: 272.696+/-0.028 $\chi^2$/NDF: 23650927.4/93




Right In: 49.209+/-28.266 $\chi^2$/NDF: 21.2/19

Left Out: 14.498+/-13.454 $\chi^2$/NDF:24.5/24

Right Out: 35.698+/-28.385 $\chi^2$/NDF: 29.9/25

Left In: 45.805+/-13.931 $\chi^2$/NDF:30.7/22

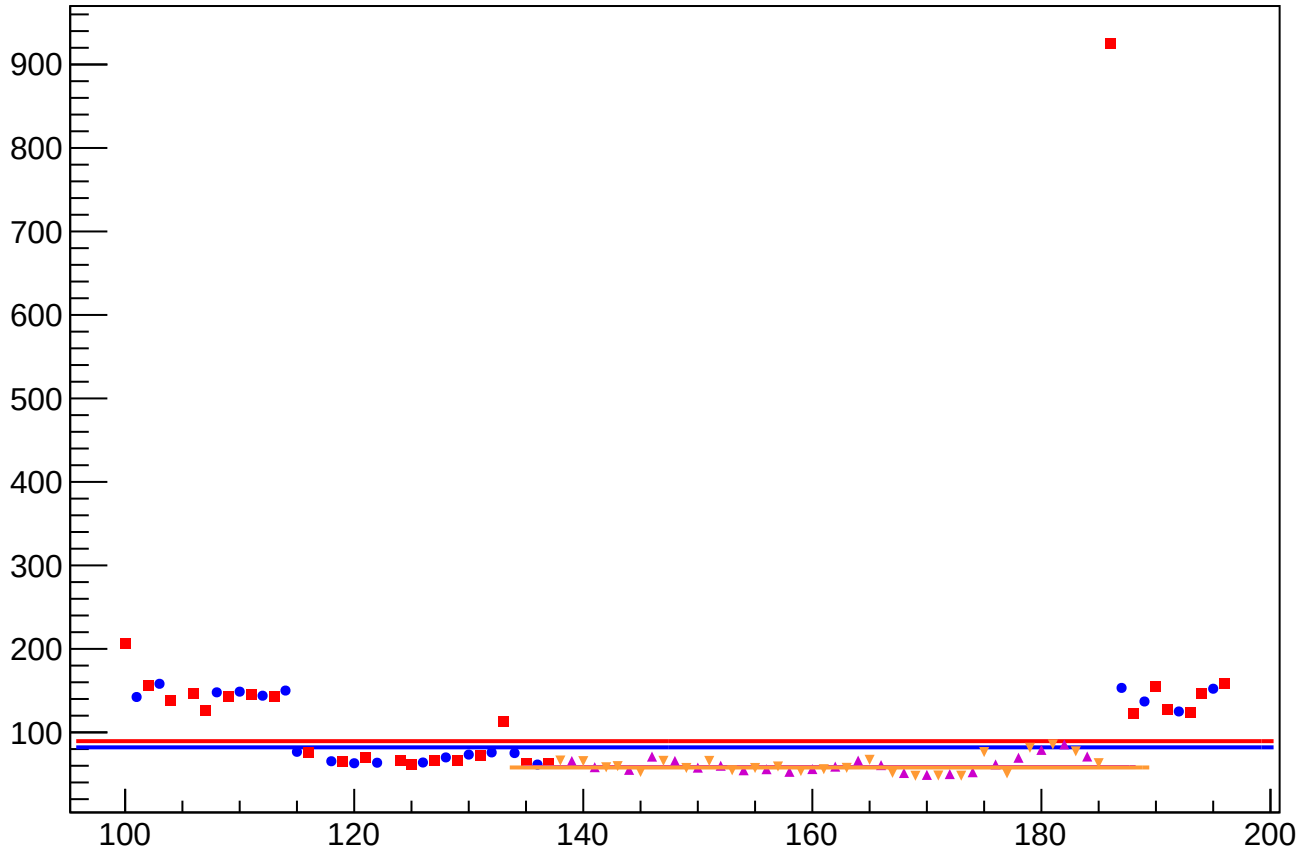
Left: 29.606+/-9.678 $\chi^2$/NDF: 57.9/47

Right: 42.482+/-20.029 $\chi^2$/NDF: 51.2/45

In: 46.470+/-12.496 $\chi^2$/NDF:51.9/42

Out: 18.387+/-12.158 $\chi^2$/NDF:54.9/50

All: 32.043+/-8.714 $\chi^2$/NDF: 109.4/93




Right In: 82.061+/-0.020 $\chi^2$/NDF: 2393464.1/19

Left Out: 57.965+/-0.010 $\chi^2$/NDF:896952.8/24

Right Out: 89.474+/-0.020 $\chi^2$/NDF: 3543677.3/25

Left In: 58.479+/-0.010 $\chi^2$/NDF:649911.4/22

Left: 58.213+/-0.007 $\chi^2$/NDF: 1548272.0/47

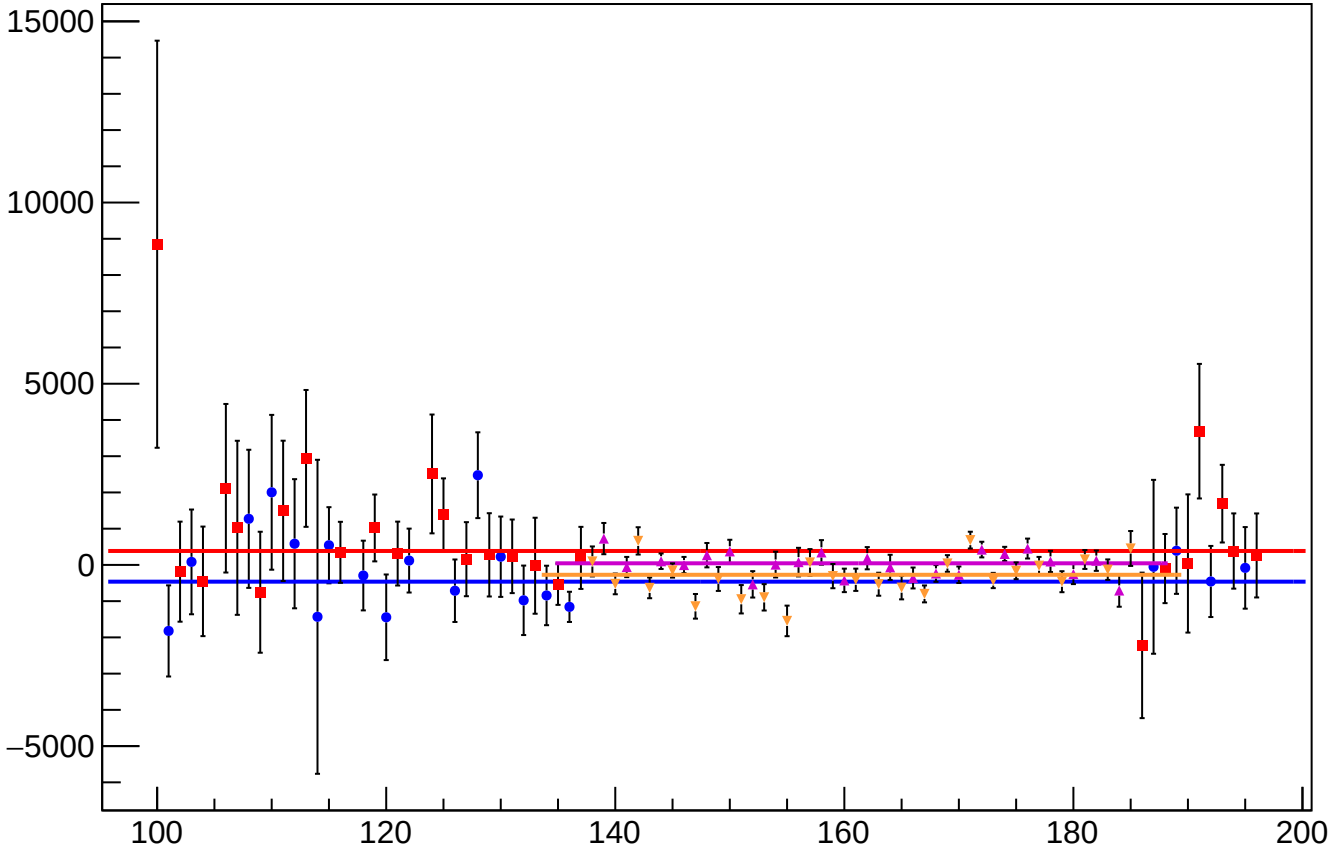
Right: 85.752+/-0.014 $\chi^2$/NDF: 6005633.4/45

In: 63.088+/-0.009 $\chi^2$/NDF:4163303.1/42

Out: 63.746+/-0.009 $\chi^2$/NDF:6452875.0/50

All: 63.426+/-0.006 $\chi^2$/NDF: 10619024.9/93

asym_sam_1526_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -462.208+/-224.279 $\chi^2$/NDF: 16.5/19

Left Out: -272.512+/-57.274 $\chi^2$/NDF:65.8/24

Right Out: 384.693+/-225.645 $\chi^2$/NDF: 18.6/25

Left In: 44.552+/-58.614 $\chi^2$/NDF:26.5/22

Left: -117.646+/-40.964 $\chi^2$/NDF: 107.2/47

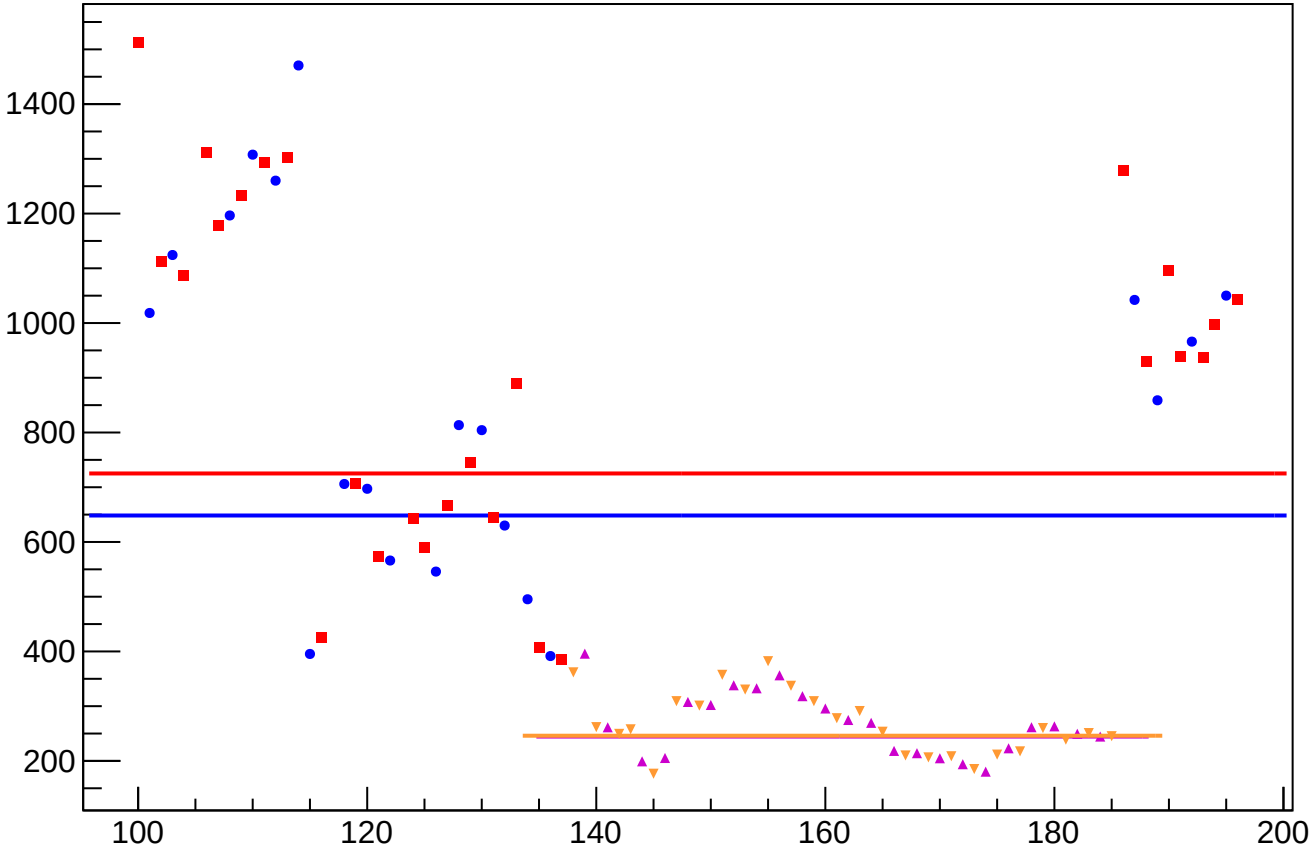
Right: -41.328+/-159.070 $\chi^2$/NDF: 42.2/45

In: 12.153+/-56.710 $\chi^2$/NDF:47.8/42

Out: -232.734+/-55.514 $\chi^2$/NDF:92.3/50

All: -112.900+/-39.670 $\chi^2$/NDF: 149.6/93

asym_sam_1526_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 648.361+/-0.159 $\chi^2$/NDF: 2715557.2/19

Left Out: 246.016+/-0.040 $\chi^2$/NDF:1680566.1/24

Right Out: 725.164+/-0.160 $\chi^2$/NDF: 3106365.4/25

Left In: 244.450+/-0.041 $\chi^2$/NDF:1596977.8/22

Left: 245.251+/-0.029 $\chi^2$/NDF: 3278274.7/47

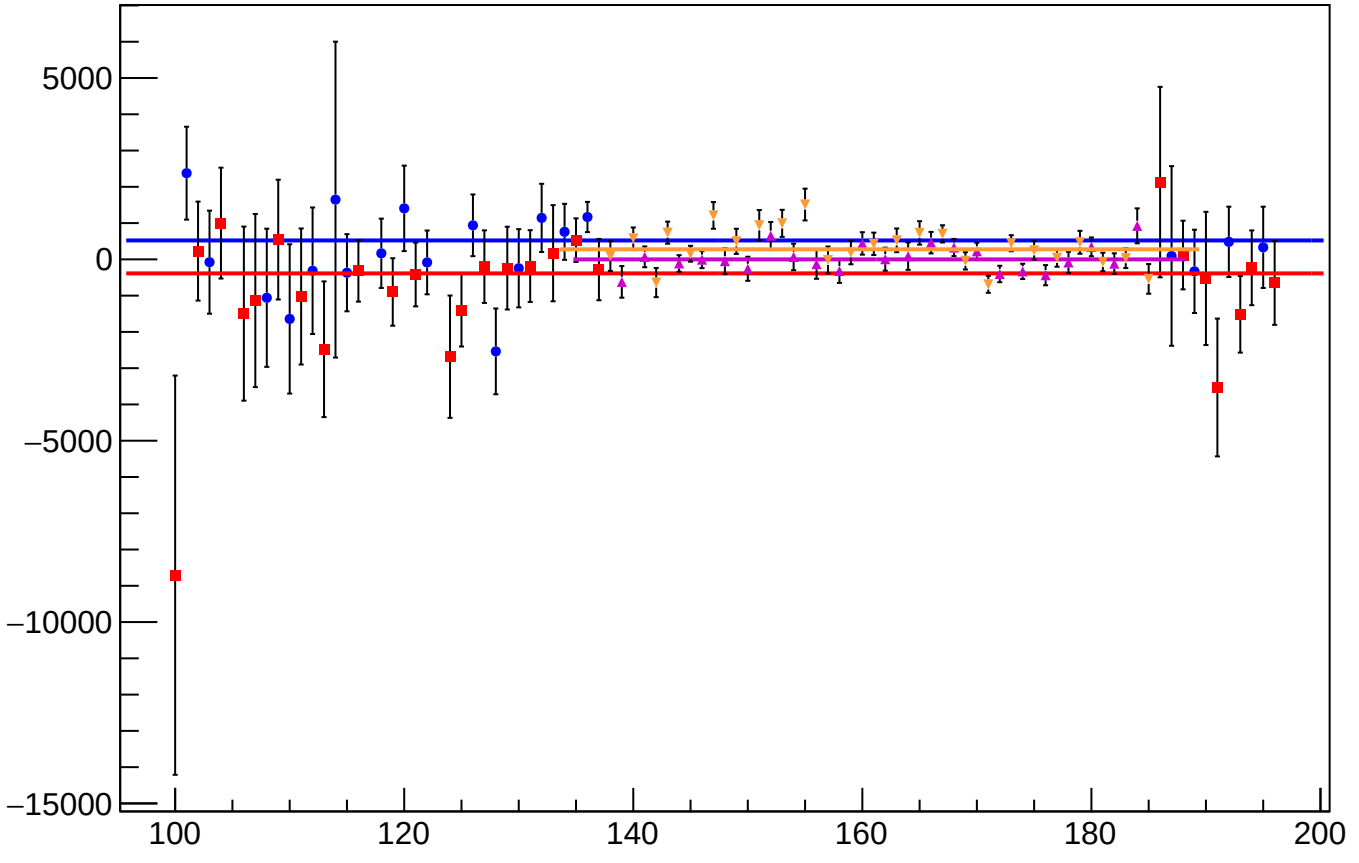
Right: 686.529+/-0.112 $\chi^2$/NDF: 5938477.1/45

In: 270.273+/-0.040 $\chi^2$/NDF:10384509.2/42

Out: 275.017+/-0.039 $\chi^2$/NDF:13259250.2/50

All: 272.696+/-0.028 $\chi^2$/NDF: 23650906.6/93

# asym_sam_1526_avg_mean vs Slug, Sign Corrected




Right In: 521.550+/-221.953 $\chi^2$/NDF: 17.2/19

Left Out: 277.077+/-59.149 $\chi^2$/NDF:64.1/24

Right Out: -386.623+/-226.931 $\chi^2$/NDF: 16.3/25

Left In: -0.556+/-60.356 $\chi^2$/NDF:28.1/22

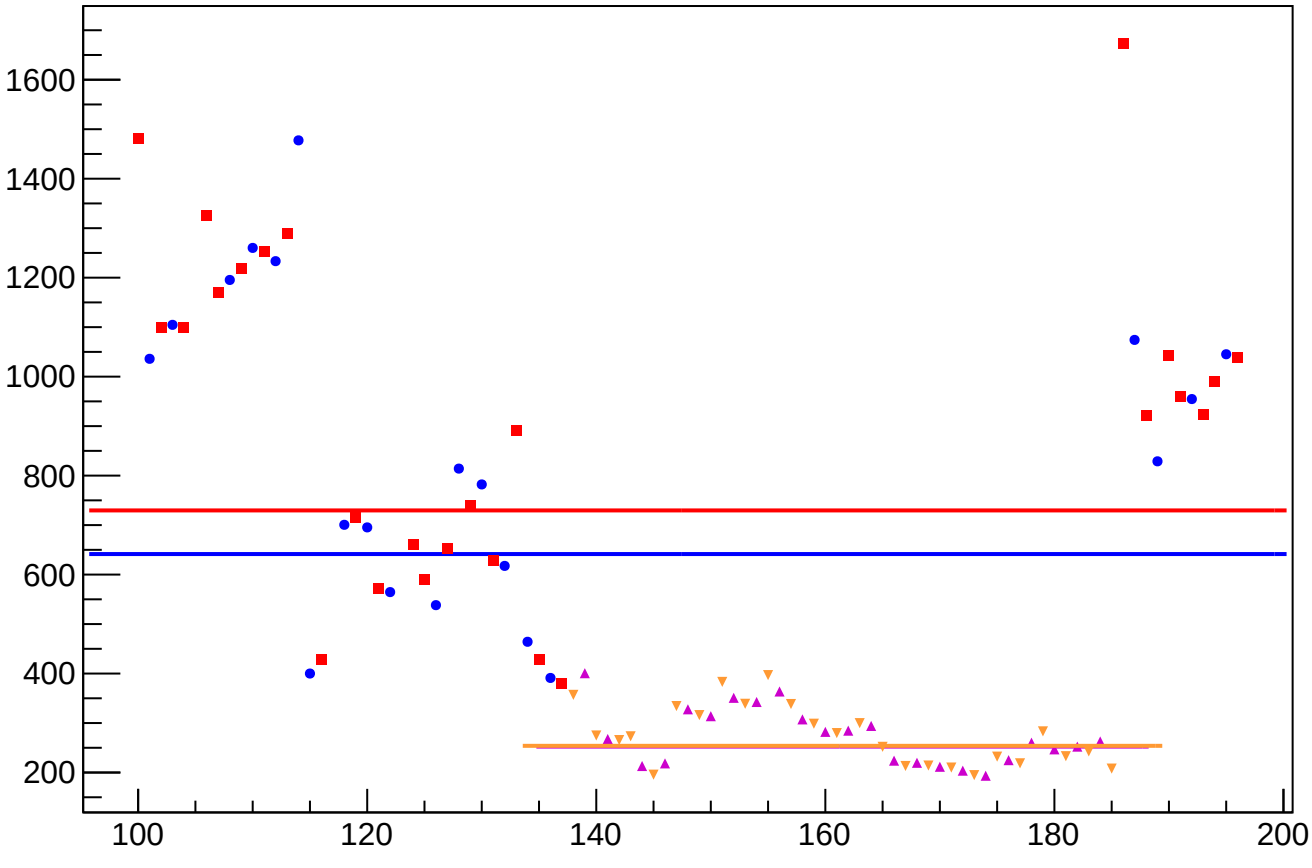
Left: 141.066+/-42.245 $\chi^2$/NDF: 103.0/47

Right: 77.534+/-158.675 $\chi^2$/NDF: 41.7/45

In: 35.394+/-58.241 $\chi^2$/NDF:50.5/42

Out: 234.856+/-57.236 $\chi^2$/NDF:88.3/50

All: 136.861+/-40.823 $\chi^2$/NDF: 144.8/93




Right In: 641.480+/-0.157 $\chi^2$/NDF: 2704192.7/19

Left Out: 253.953+/-0.042 $\chi^2$/NDF:1590761.5/24

Right Out: 729.650+/-0.160 $\chi^2$/NDF: 3033955.8/25

Left In: 252.390+/-0.043 $\chi^2$/NDF:1412169.8/22

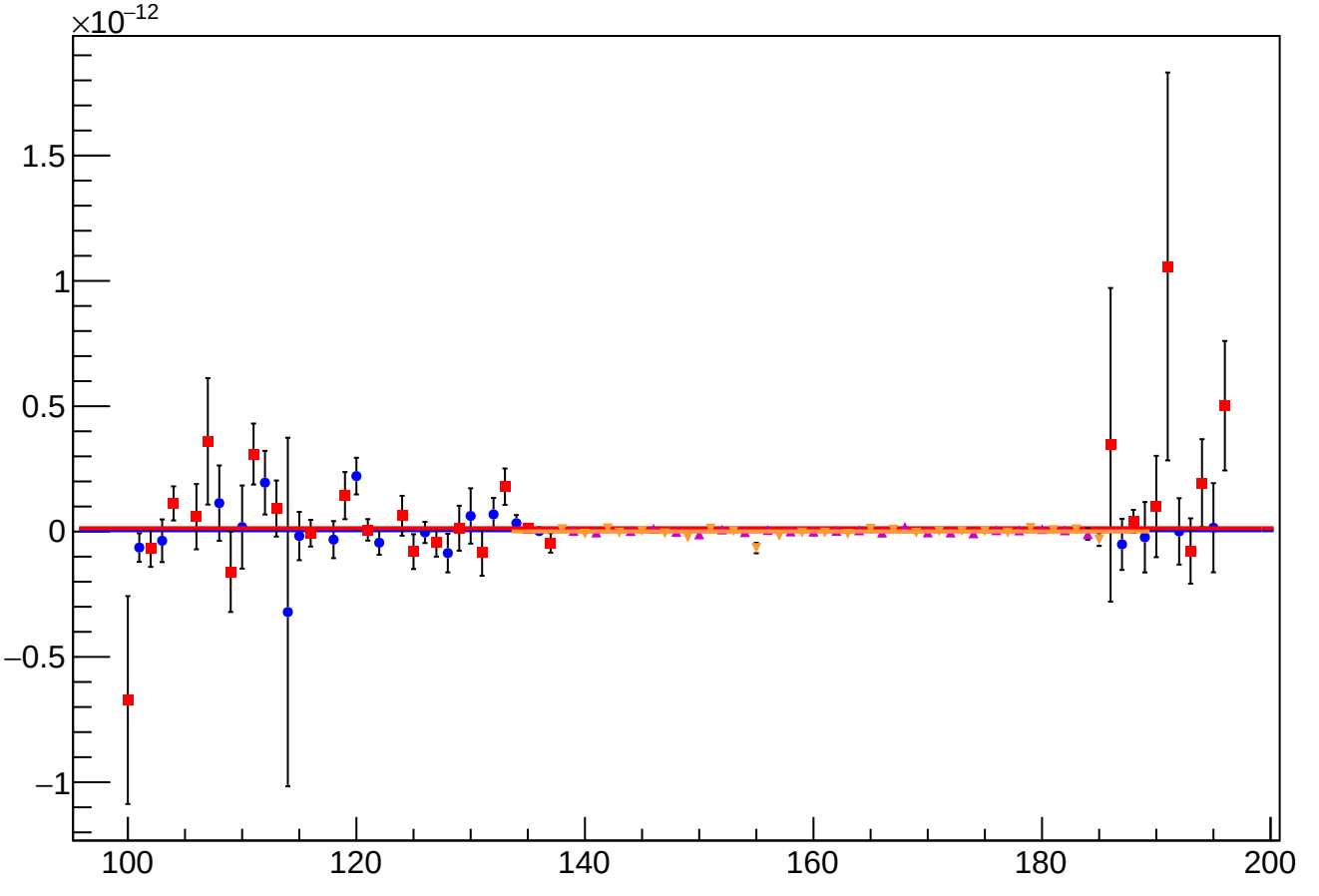
Left: 253.187+/-0.030 $\chi^2$/NDF: 3003615.8/47

Right: 684.587+/-0.112 $\chi^2$/NDF: 5892451.8/45

In: 279.181+/-0.041 $\chi^2$/NDF:9839400.8/42

Out: 284.214+/-0.040 $\chi^2$/NDF:12853887.0/50

All: 281.742+/-0.029 $\chi^2$/NDF: 22700886.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:26.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 37.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.0/22

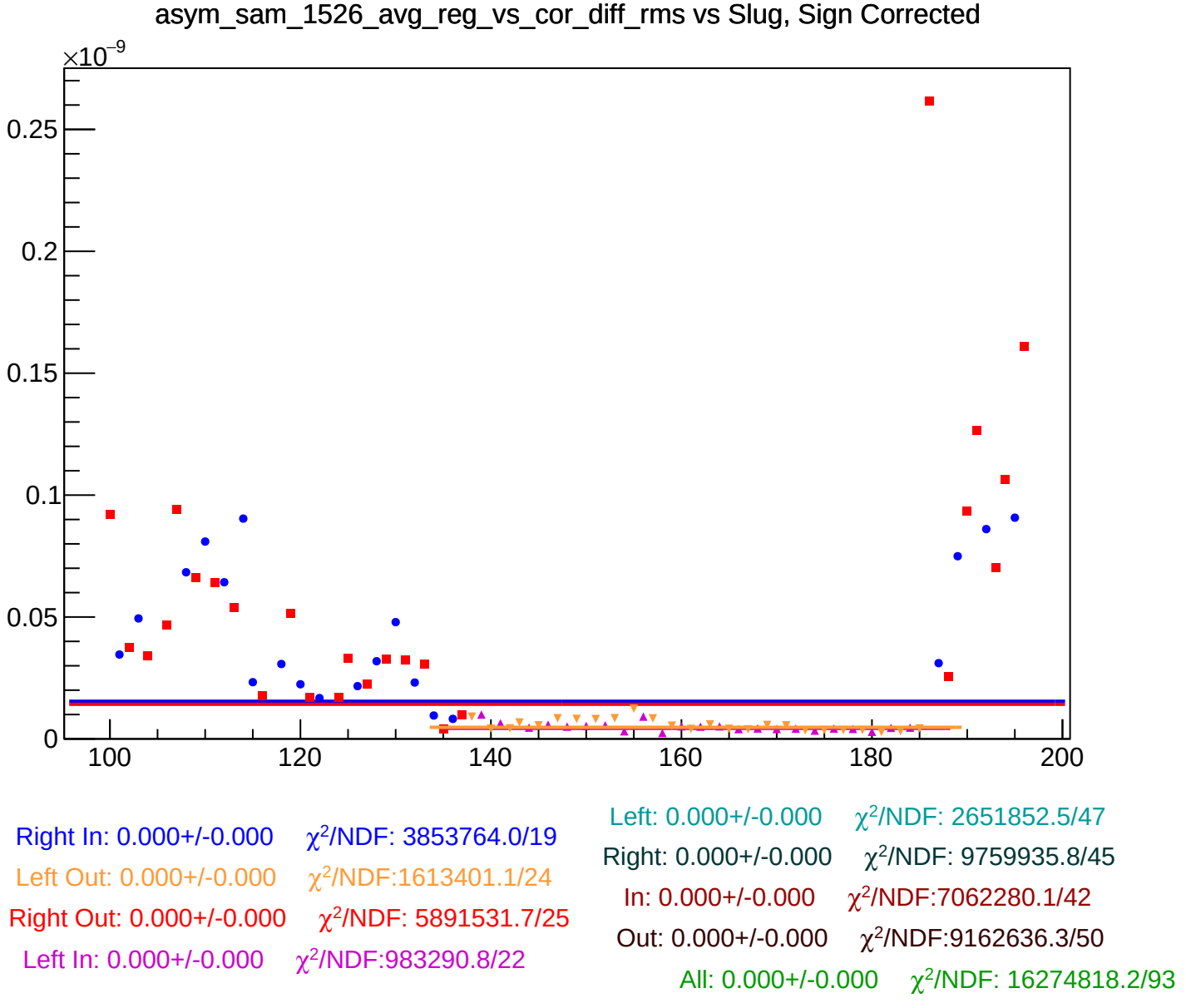
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.0/47

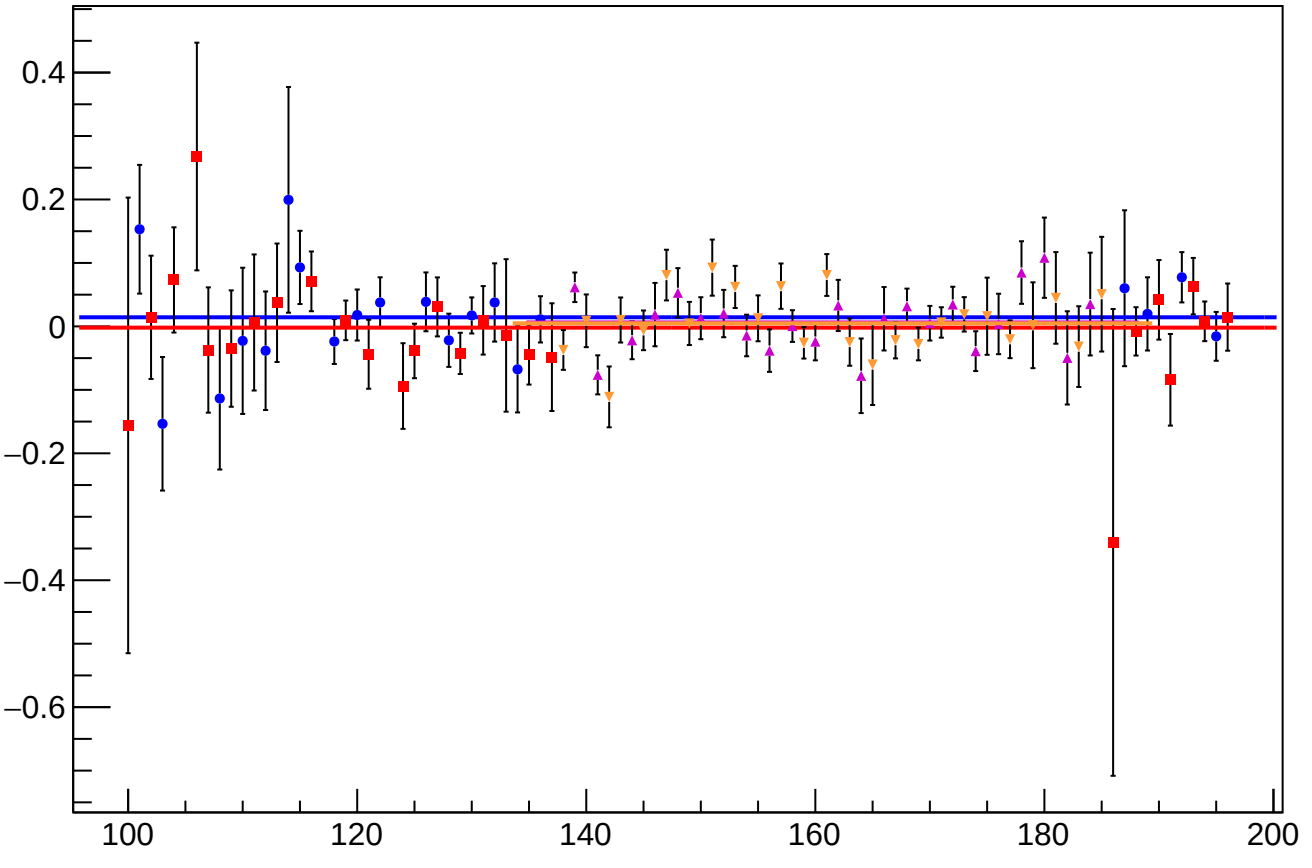
Right: 0.000+/-0.000 $\chi^2$/NDF: 56.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:32.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:65.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 98.5/93


asym_sam_1526_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3853764.0/19
Left Out: 0.000+/-0.000 χ²/NDF:1613401.1/24
Right Out: 0.000+/-0.000 χ²/NDF: 5891531.7/25
Left In: 0.000+/-0.000 χ²/NDF:983290.8/22
Left: 0.000+/-0.000 χ²/NDF: 2651852.5/47
Right: 0.000+/-0.000 χ²/NDF: 9759935.8/45
In: 0.000+/-0.000 χ²/NDF:7062280.1/42
Out: 0.000+/-0.000 χ²/NDF:9162636.3/50
All: 0.000+/-0.000 χ²/NDF: 16274818.2/93




Right In: 0.014+/-0.011 $\chi^2$/NDF: 16.5/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:34.0/24

Right Out: -0.002+/-0.011 $\chi^2$/NDF: 17.7/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:31.0/22

Left: 0.006+/-0.005 $\chi^2$/NDF: 65.0/47

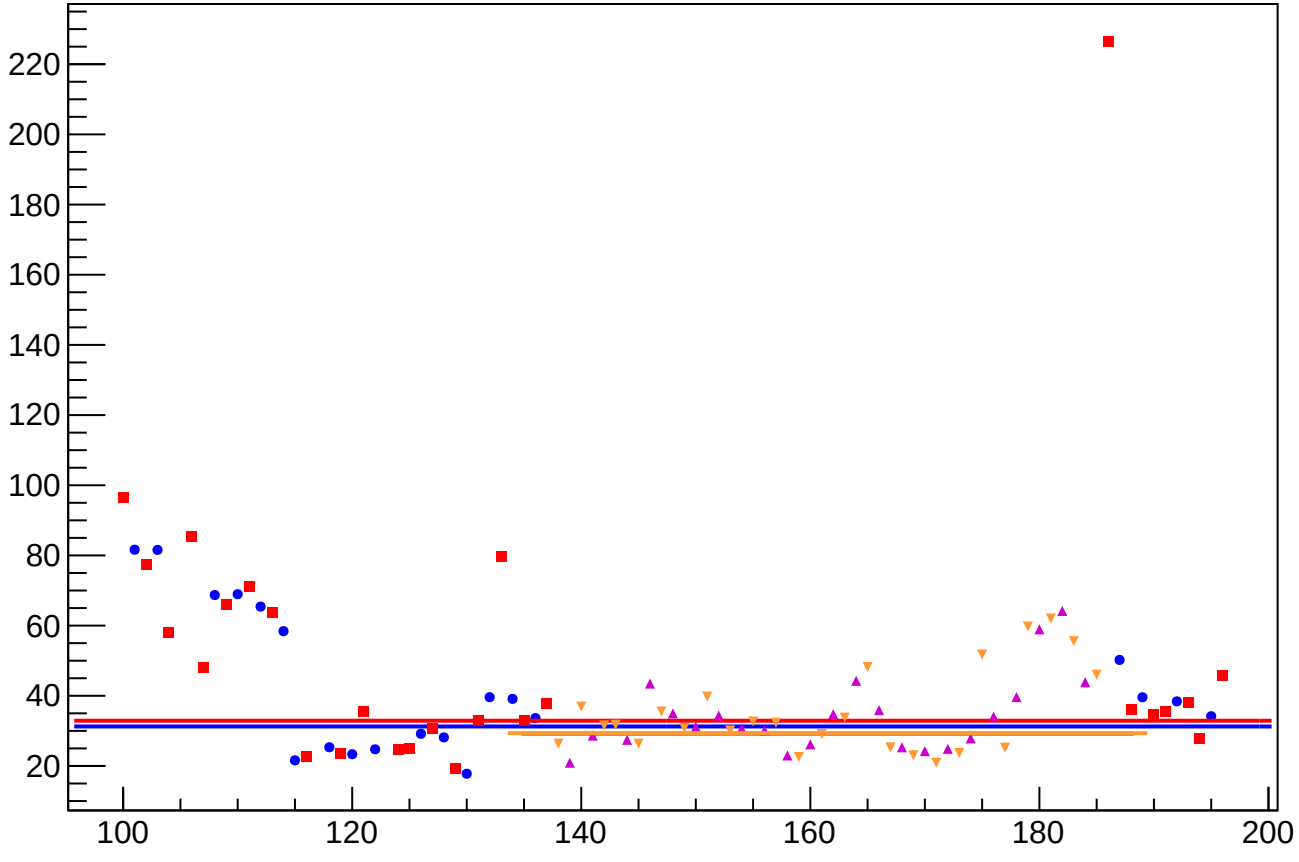
Right: 0.006+/-0.008 $\chi^2$/NDF: 35.3/45

In: 0.009+/-0.006 $\chi^2$/NDF:47.9/42

Out: 0.003+/-0.006 $\chi^2$/NDF:51.9/50

All: 0.006+/-0.004 $\chi^2$/NDF: 100.3/93

asym_sam_1526_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.256+/-0.008 $\chi^2$/NDF: 2647830.0/19

Left Out: 29.338+/-0.005 $\chi^2$/NDF:2687159.2/24

Right Out: 32.895+/-0.008 $\chi^2$/NDF: 3439107.4/25

Left In: 29.226+/-0.005 $\chi^2$/NDF:2097657.8/22

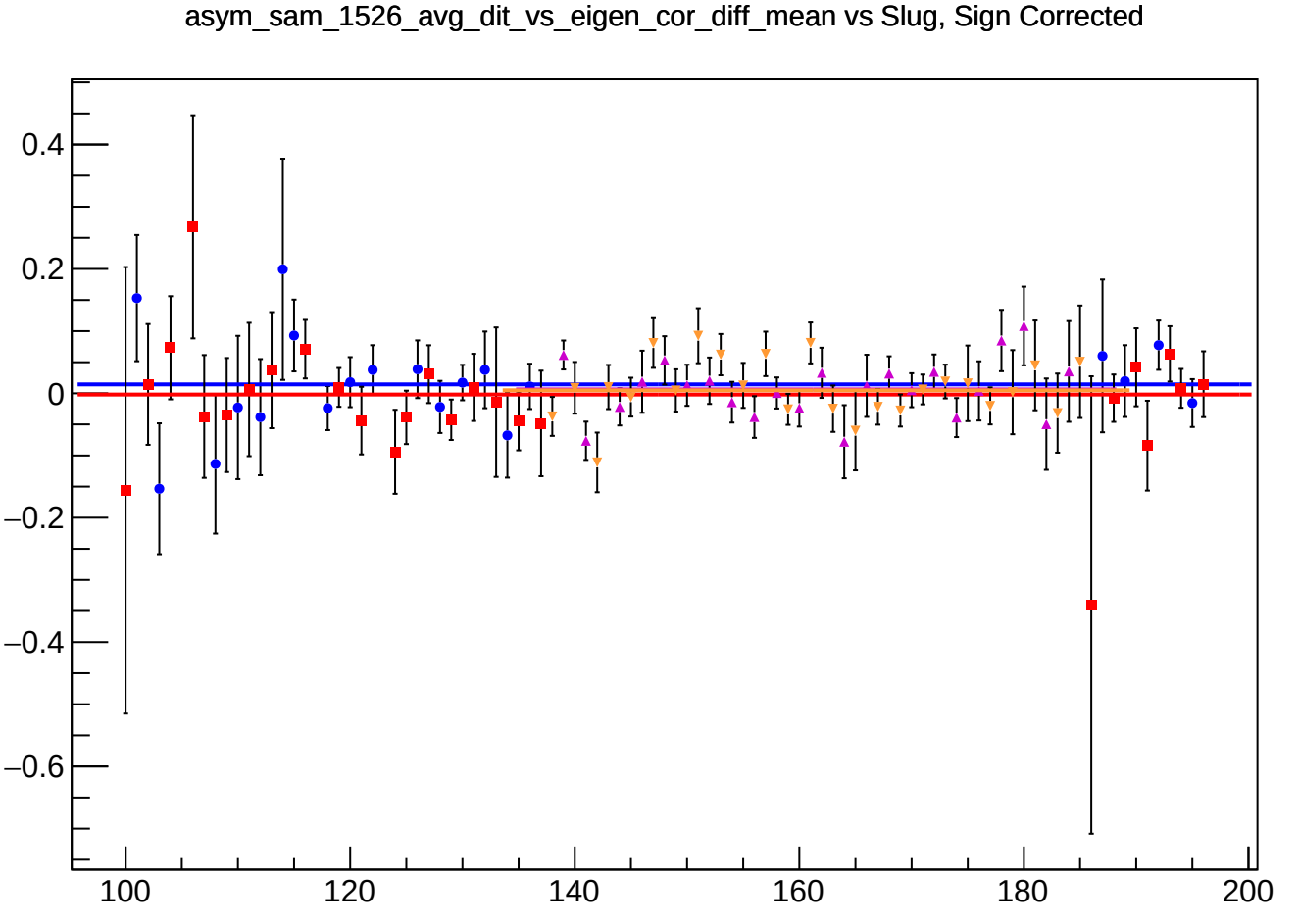
Left: 29.283+/-0.004 $\chi^2$/NDF: 4785056.4/47

Right: 32.110+/-0.005 $\chi^2$/NDF: 6109376.8/45

In: 29.830+/-0.004 $\chi^2$/NDF:4791947.8/42

Out: 30.426+/-0.004 $\chi^2$/NDF:6279635.8/50

All: 30.136+/-0.003 $\chi^2$/NDF: 11081451.9/93




Right In: 0.014+/-0.011 $\chi^2$/NDF: 16.5/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:34.0/24

Right Out: -0.002+/-0.011 $\chi^2$/NDF: 17.7/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:31.0/22

Left: 0.006+/-0.005 $\chi^2$/NDF: 65.0/47

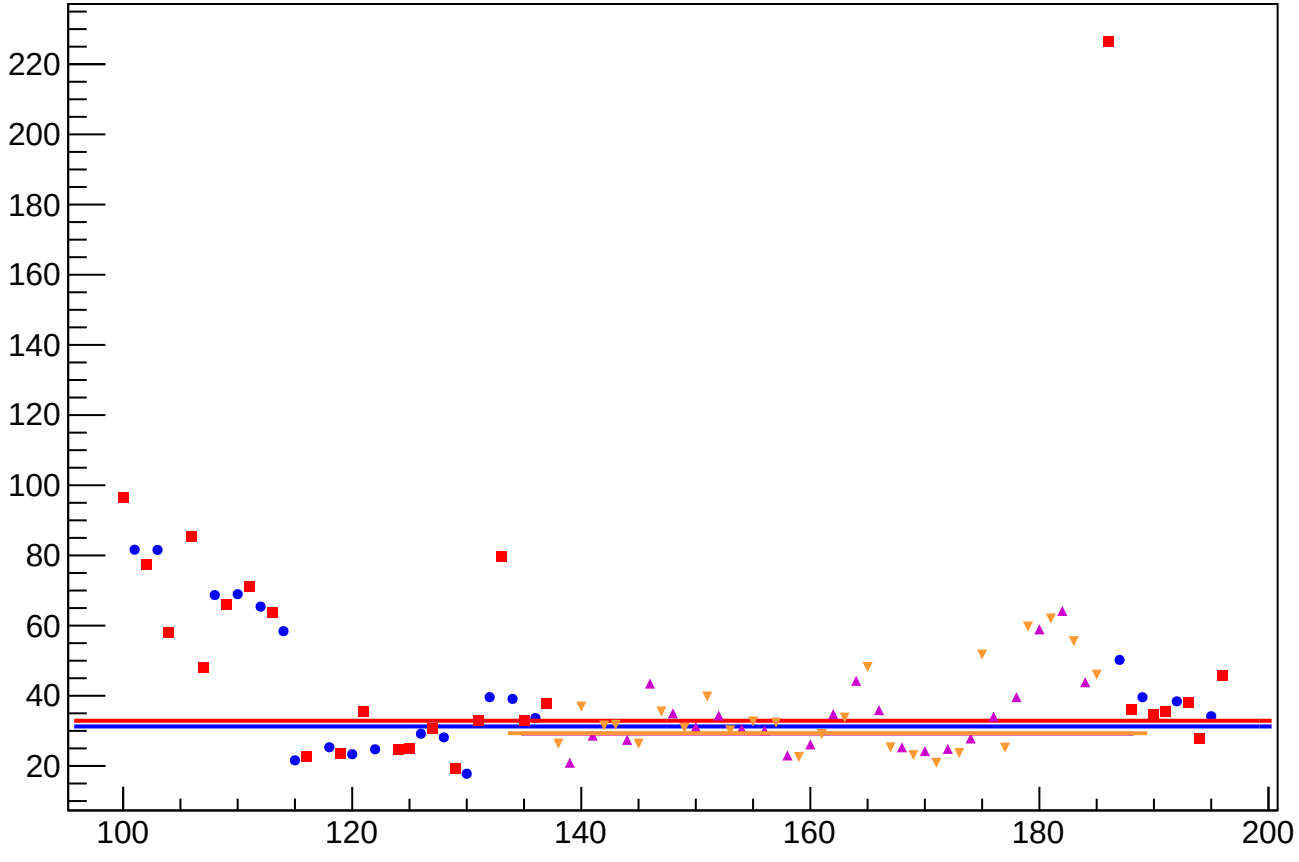
Right: 0.006+/-0.008 $\chi^2$/NDF: 35.3/45

In: 0.009+/-0.006 $\chi^2$/NDF:47.9/42

Out: 0.003+/-0.006 $\chi^2$/NDF:51.9/50

All: 0.006+/-0.004 $\chi^2$/NDF: 100.3/93

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.256+/-0.008 $\chi^2$/NDF: 2647830.0/19

Left Out: 29.338+/-0.005 $\chi^2$/NDF:2687159.2/24

Right Out: 32.895+/-0.008 $\chi^2$/NDF: 3439107.4/25

Left In: 29.226+/-0.005 $\chi^2$/NDF:2097657.8/22

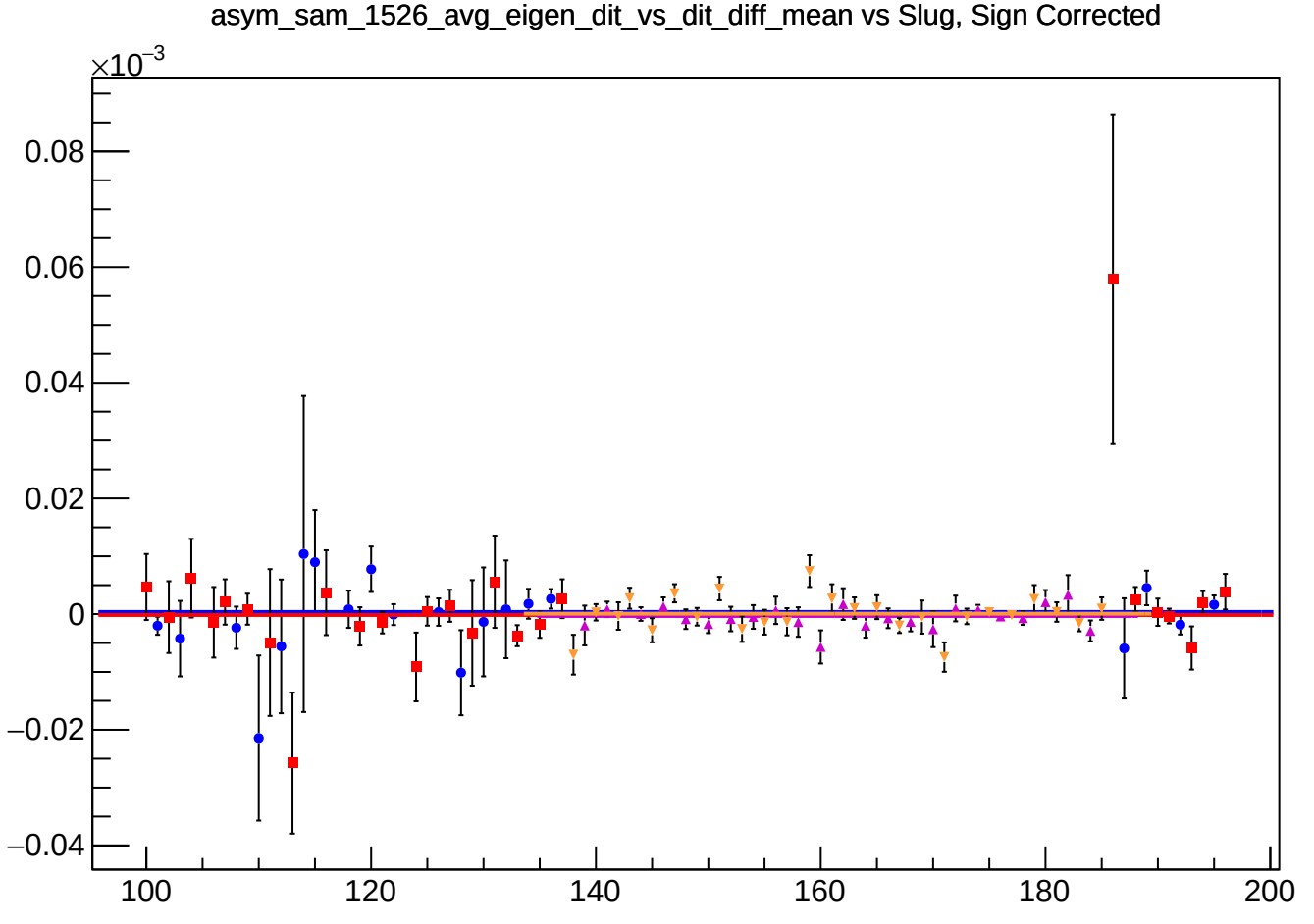
Left: 29.283+/-0.004 $\chi^2$/NDF: 4785056.4/47

Right: 32.110+/-0.005 $\chi^2$/NDF: 6109376.8/45

In: 29.830+/-0.004 $\chi^2$/NDF:4791947.8/42

Out: 30.426+/-0.004 $\chi^2$/NDF:6279635.8/50

All: 30.136+/-0.003 $\chi^2$/NDF: 11081451.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 19.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.7/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.3/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.5/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 60.1/47

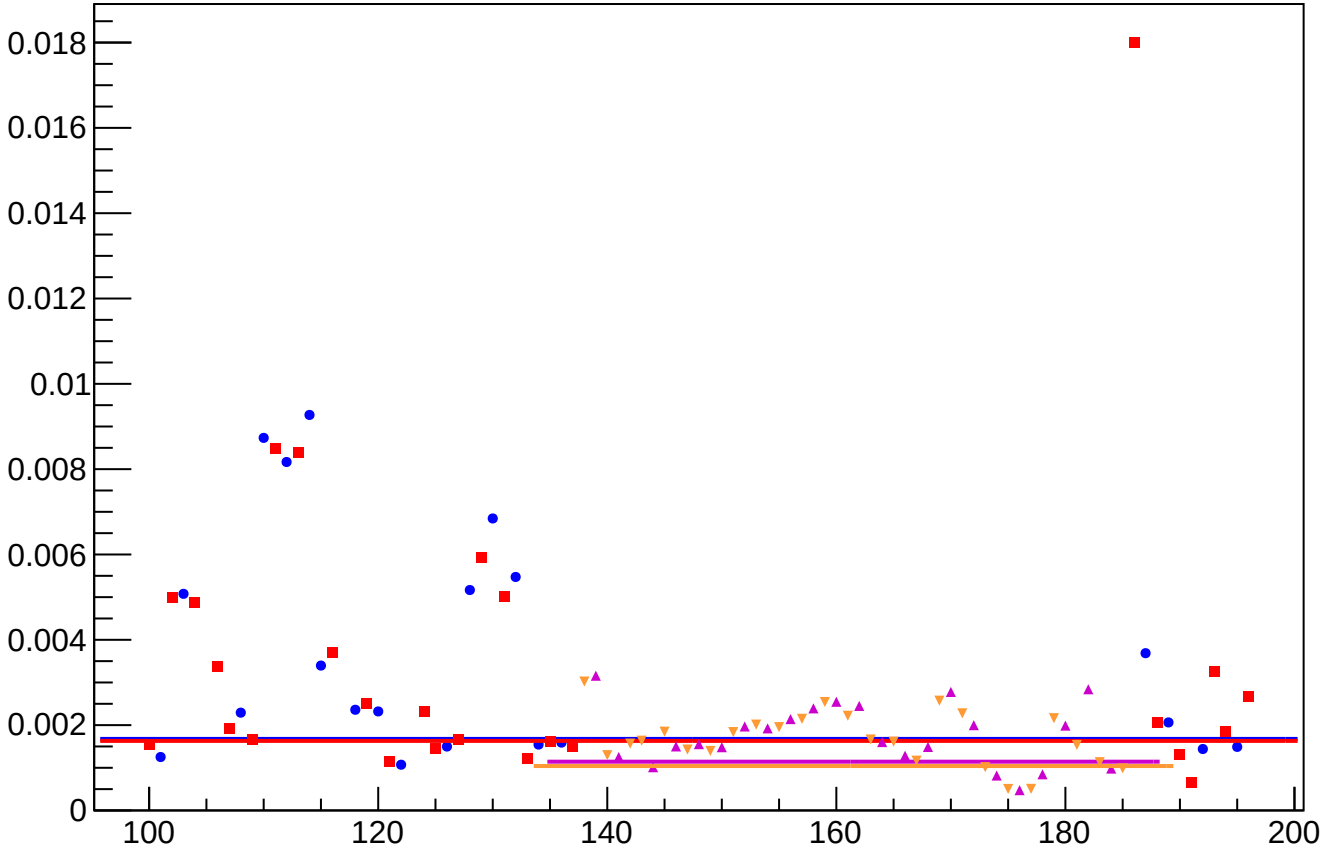
Right: 0.000+/-0.000 $\chi^2$/NDF: 47.3/45

In: -0.000+/-0.000 $\chi^2$/NDF:36.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:71.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 107.5/93

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4147938.6/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:9825407.0/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 6403039.7/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:8291862.8/22

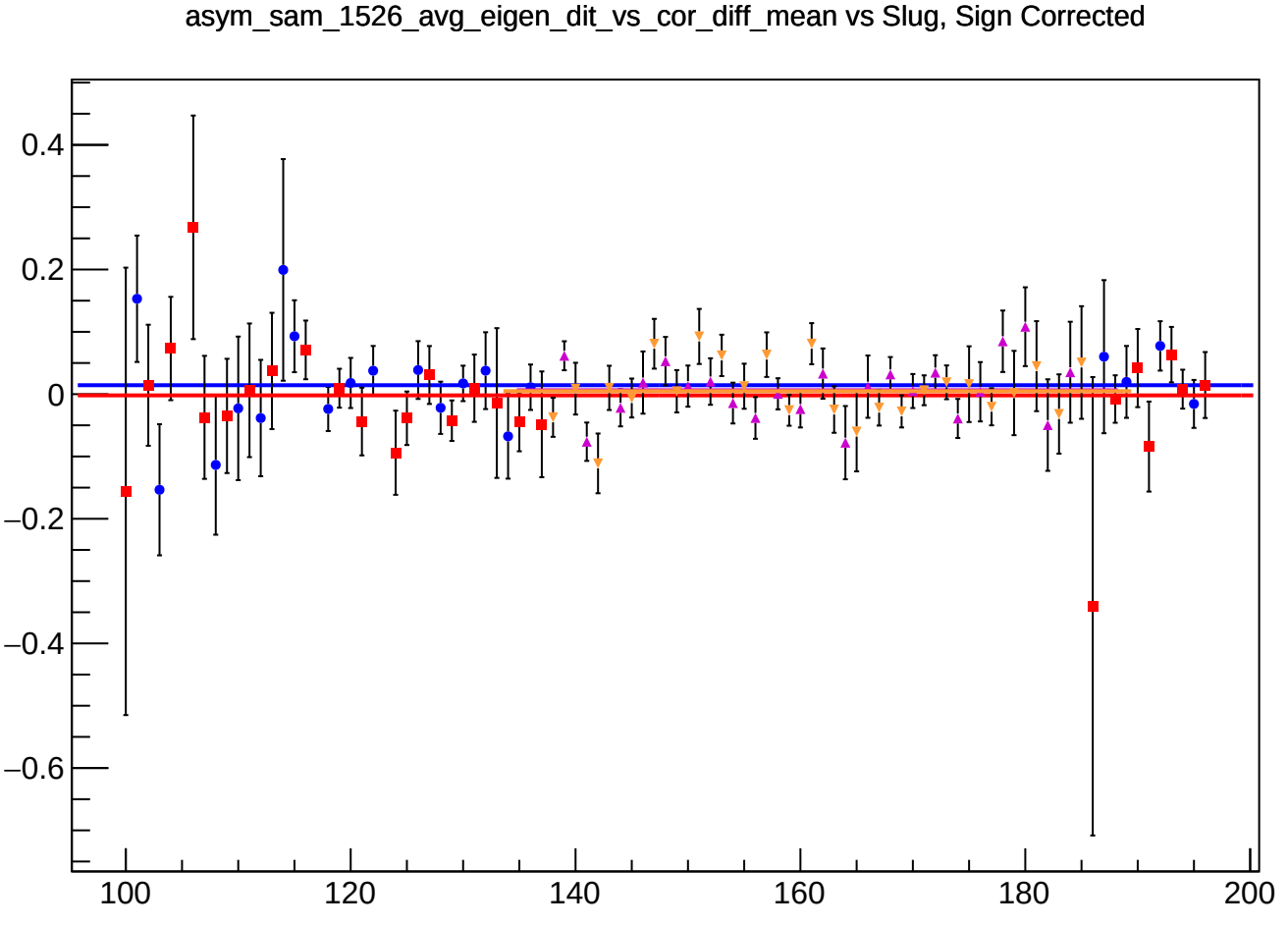
Left: 0.001+/-0.000 $\chi^2$/NDF: 18236927.4/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 10557018.2/45

In: 0.001+/-0.000 $\chi^2$/NDF:13618485.9/42

Out: 0.001+/-0.000 $\chi^2$/NDF:17968771.5/50

All: 0.001+/-0.000 $\chi^2$/NDF: 31713311.1/93




Right In: 0.014+/-0.011 $\chi^2$/NDF: 16.5/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:34.0/24

Right Out: -0.002+/-0.011 $\chi^2$/NDF: 17.7/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:31.0/22

Left: 0.006+/-0.005 $\chi^2$/NDF: 65.0/47

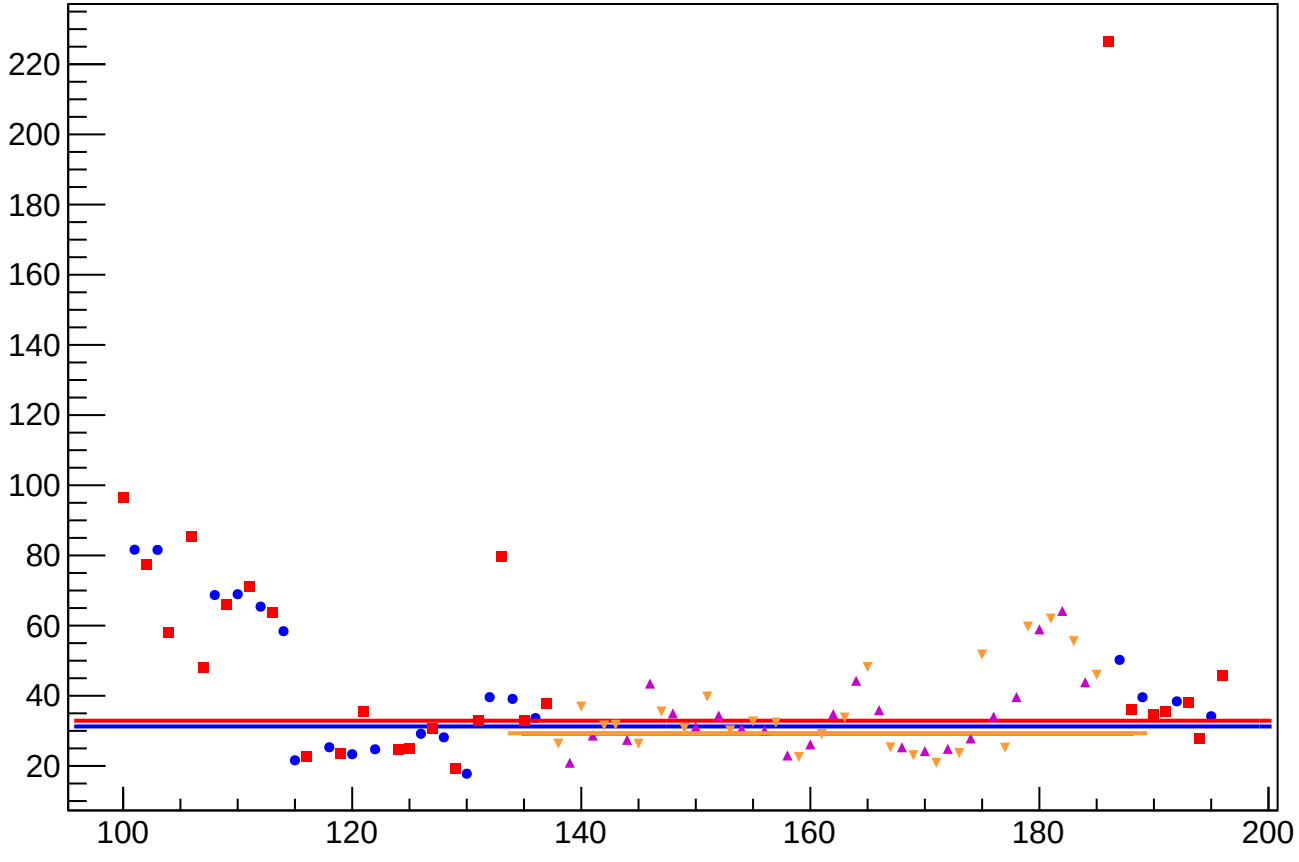
Right: 0.006+/-0.008 $\chi^2$/NDF: 35.3/45

In: 0.009+/-0.006 $\chi^2$/NDF:47.9/42

Out: 0.003+/-0.006 $\chi^2$/NDF:51.9/50

All: 0.006+/-0.004 $\chi^2$/NDF: 100.3/93

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.255+/-0.008 $\chi^2$/NDF: 2648093.3/19

Left Out: 29.338+/-0.005 $\chi^2$/NDF:2687200.3/24

Right Out: 32.894+/-0.008 $\chi^2$/NDF: 3439292.9/25

Left In: 29.227+/-0.005 $\chi^2$/NDF:2097621.4/22

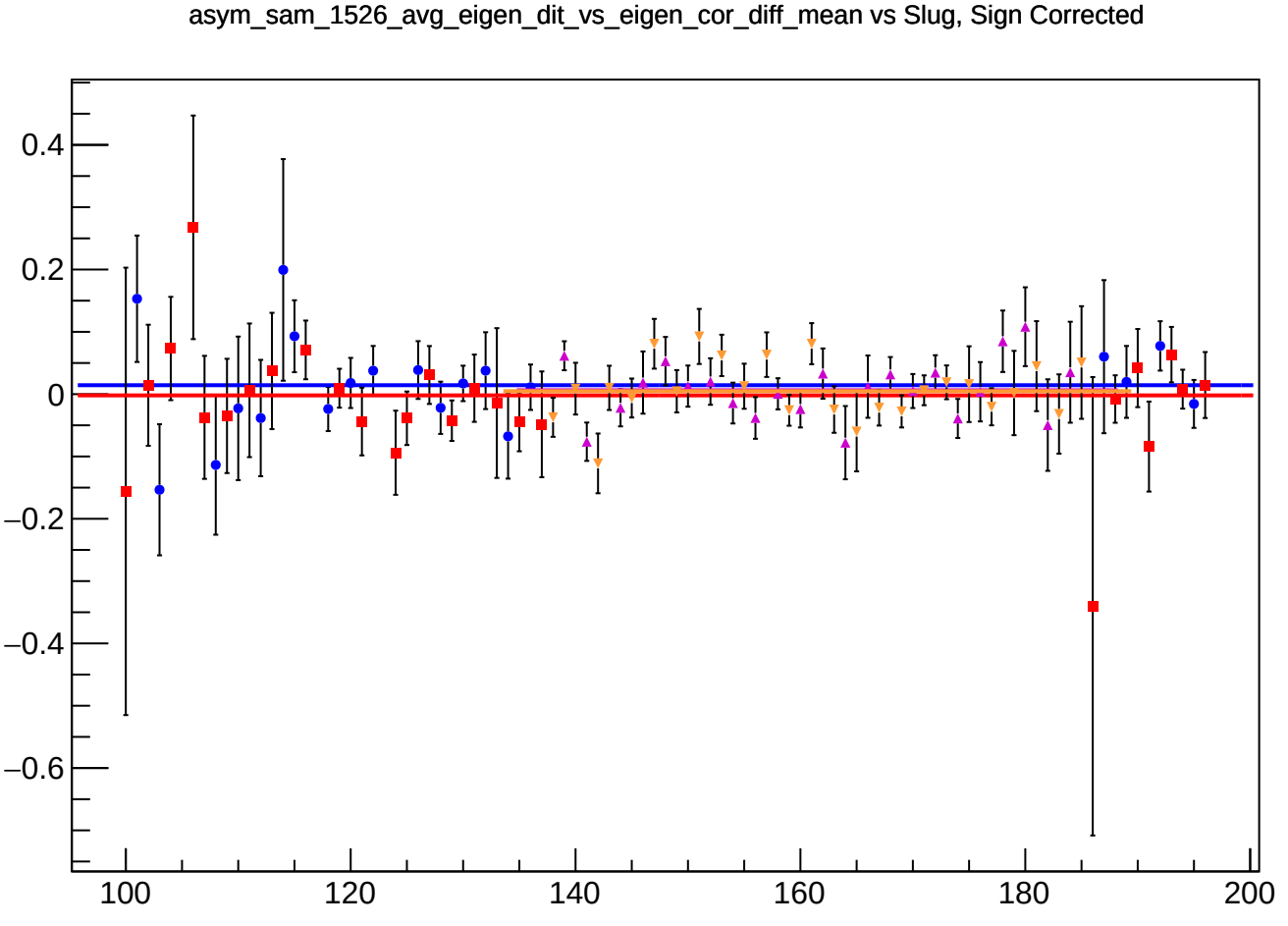
Left: 29.283+/-0.004 $\chi^2$/NDF: 4785060.1/47

Right: 32.109+/-0.005 $\chi^2$/NDF: 6109833.2/45

In: 29.830+/-0.004 $\chi^2$/NDF:4792108.5/42

Out: 30.426+/-0.004 $\chi^2$/NDF:6279778.0/50

All: 30.136+/-0.003 $\chi^2$/NDF: 11081752.1/93




Right In: 0.014+/-0.011 $\chi^2$/NDF: 16.5/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:34.0/24

Right Out: -0.002+/-0.011 $\chi^2$/NDF: 17.7/25

Left In: 0.006+/-0.007 $\chi^2$/NDF:31.0/22

Left: 0.006+/-0.005 $\chi^2$/NDF: 65.0/47

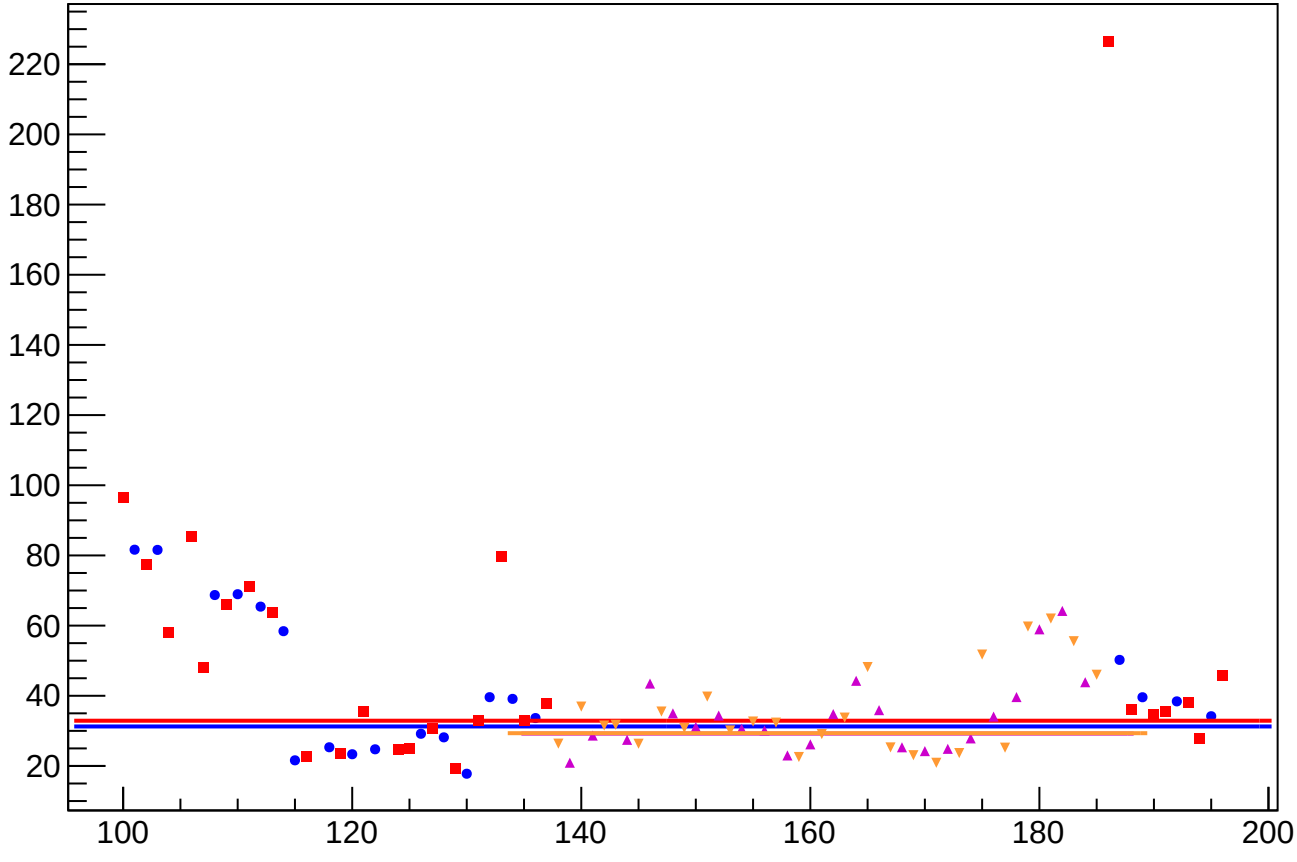
Right: 0.006+/-0.008 $\chi^2$/NDF: 35.3/45

In: 0.009+/-0.006 $\chi^2$/NDF:47.9/42

Out: 0.003+/-0.006 $\chi^2$/NDF:51.9/50

All: 0.006+/-0.004 $\chi^2$/NDF: 100.3/93

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.255+/-0.008 $\chi^2$/NDF: 2648093.3/19

Left Out: 29.338+/-0.005 $\chi^2$/NDF:2687200.3/24

Right Out: 32.894+/-0.008 $\chi^2$/NDF: 3439292.9/25

Left In: 29.227+/-0.005 $\chi^2$/NDF:2097621.4/22

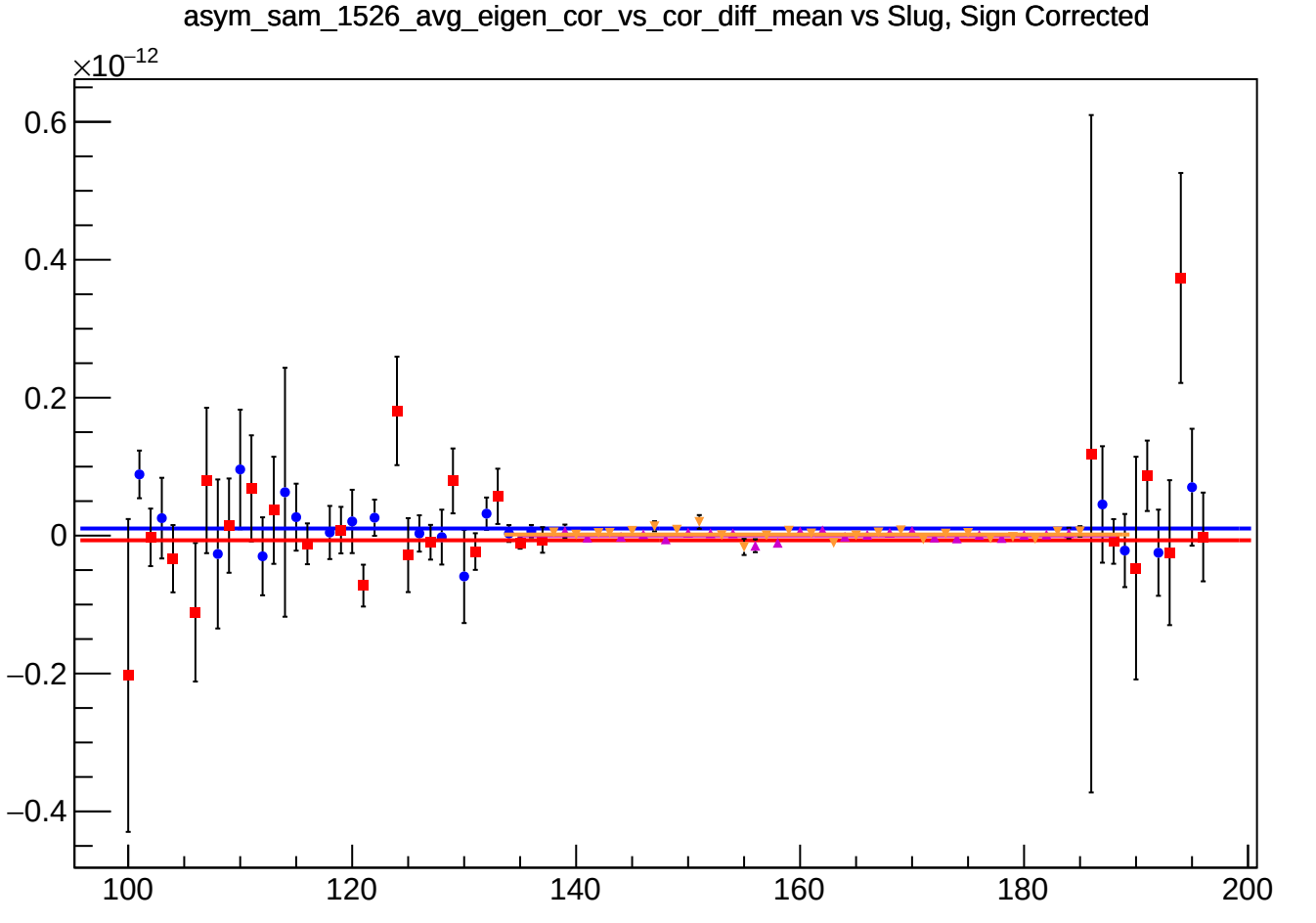
Left: 29.283+/-0.004 $\chi^2$/NDF: 4785060.1/47

Right: 32.109+/-0.005 $\chi^2$/NDF: 6109833.2/45

In: 29.830+/-0.004 $\chi^2$/NDF:4792108.5/42

Out: 30.426+/-0.004 $\chi^2$/NDF:6279778.0/50

All: 30.136+/-0.003 $\chi^2$/NDF: 11081752.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 11.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:35.0/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 31.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:18.6/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 54.6/47

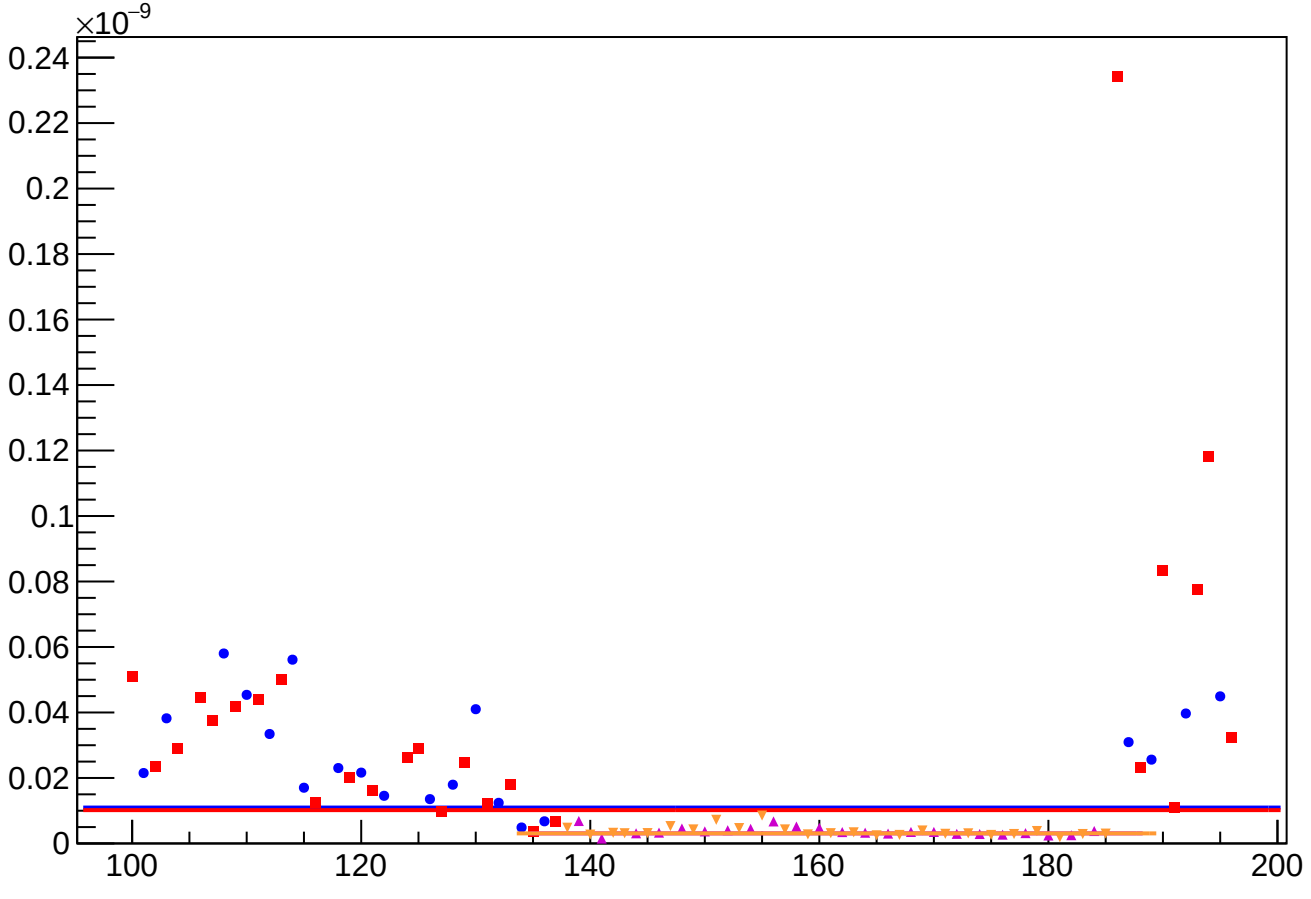
Right: 0.000+/-0.000 $\chi^2$/NDF: 47.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:32.8/42

Out: 0.000+/-0.000 $\chi^2$/NDF:68.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 101.6/93

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4549198.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2024861.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 7801832.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2149738.1/22

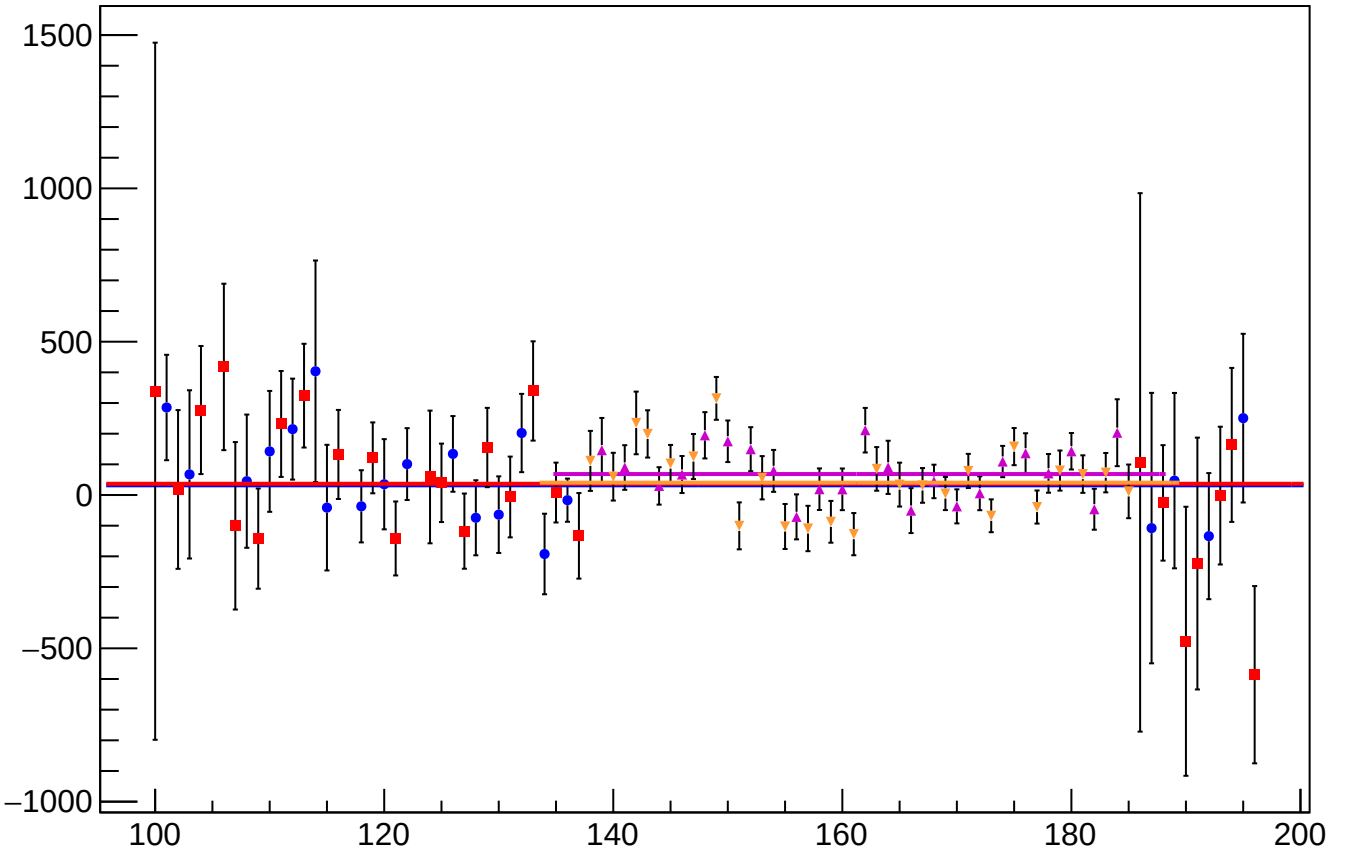
Left: 0.000+/-0.000 $\chi^2$/NDF: 4174620.9/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 12369065.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:10174028.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12803433.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 22978153.9/93




Right In: 31.645+/-32.873 $\chi^2$/NDF: 14.2/19

Left Out: 40.342+/-13.402 $\chi^2$/NDF:59.4/24

Right Out: 36.657+/-33.121 $\chi^2$/NDF: 26.5/25

Left In: 68.344+/-13.866 $\chi^2$/NDF:31.8/22

Left: 53.866+/-9.637 $\chi^2$/NDF: 93.3/47

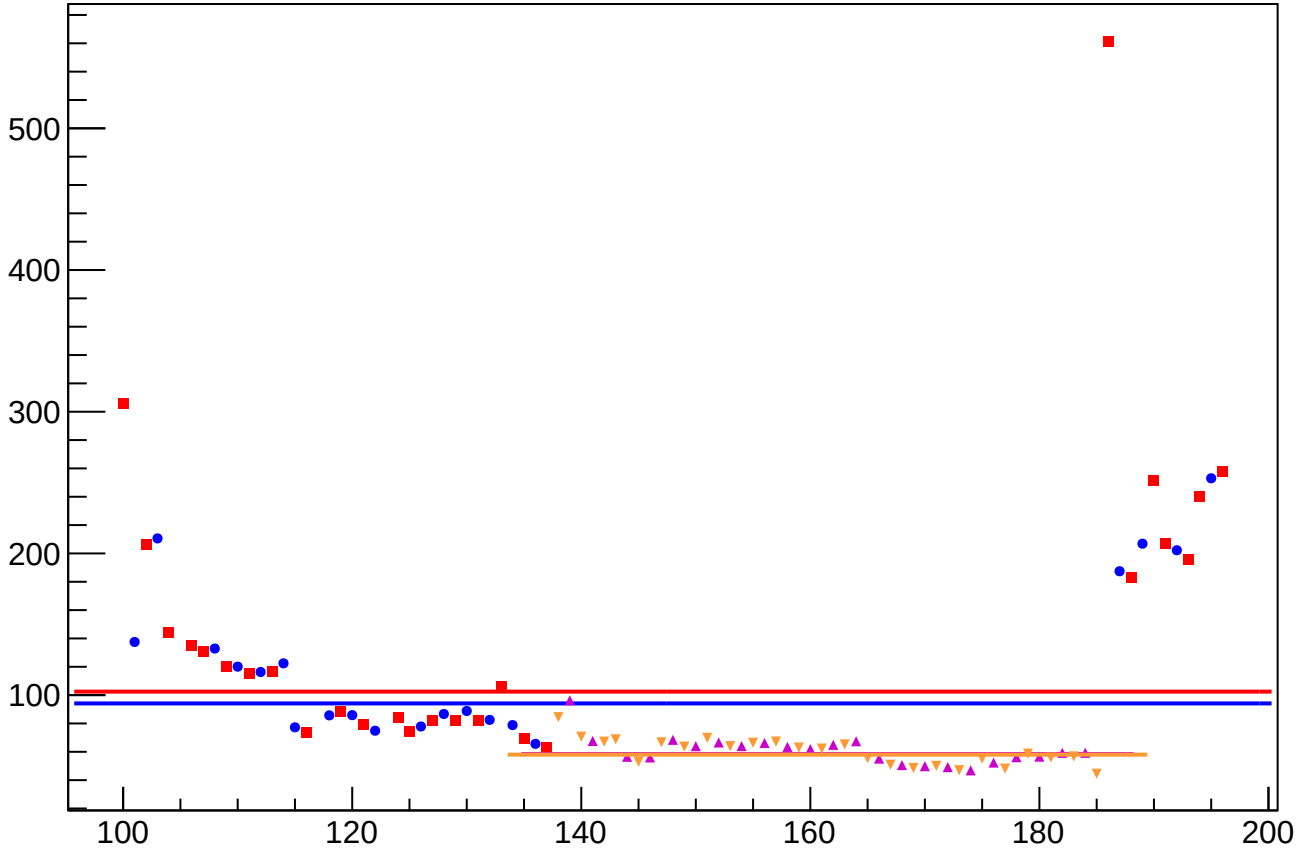
Right: 34.132+/-23.332 $\chi^2$/NDF: 40.8/45

In: 62.801+/-12.776 $\chi^2$/NDF:47.0/42

Out: 39.824+/-12.423 $\chi^2$/NDF:86.0/50

All: 50.991+/-8.907 $\chi^2$/NDF: 134.6/93

# reg_asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 94.144+/-0.023 $\chi^2$/NDF: 2756410.9/19

Left Out: 57.996+/-0.009 $\chi^2$/NDF:807648.8/24

Right Out: 102.483+/-0.023 $\chi^2$/NDF: 4193718.0/25

Left In: 58.397+/-0.010 $\chi^2$/NDF:735208.2/22

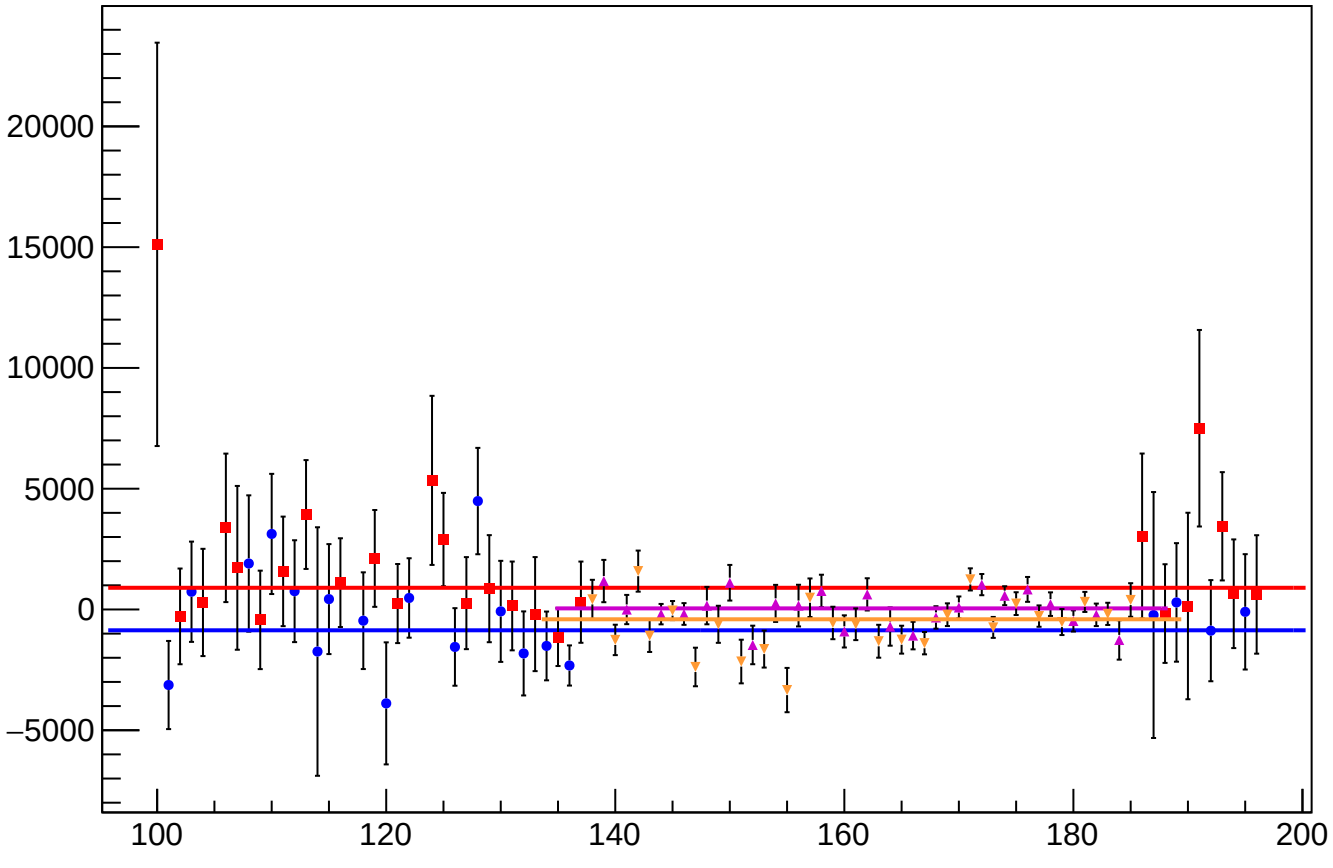
Left: 58.189+/-0.007 $\chi^2$/NDF: 1543722.5/47

Right: 98.282+/-0.016 $\chi^2$/NDF: 7013998.9/45

In: 63.796+/-0.009 $\chi^2$/NDF:5499386.2/42

Out: 64.255+/-0.009 $\chi^2$/NDF:8102008.9/50

All: 64.032+/-0.006 $\chi^2$/NDF: 13602719.0/93




Right In: -862.463+/-416.936 $\chi^2$/NDF: 18.9/19

Left Out: -406.322+/-113.468 $\chi^2$/NDF:63.2/24

Right Out: 897.881+/-423.201 $\chi^2$/NDF: 17.8/25

Left In: 44.831+/-115.765 $\chi^2$/NDF:31.1/22

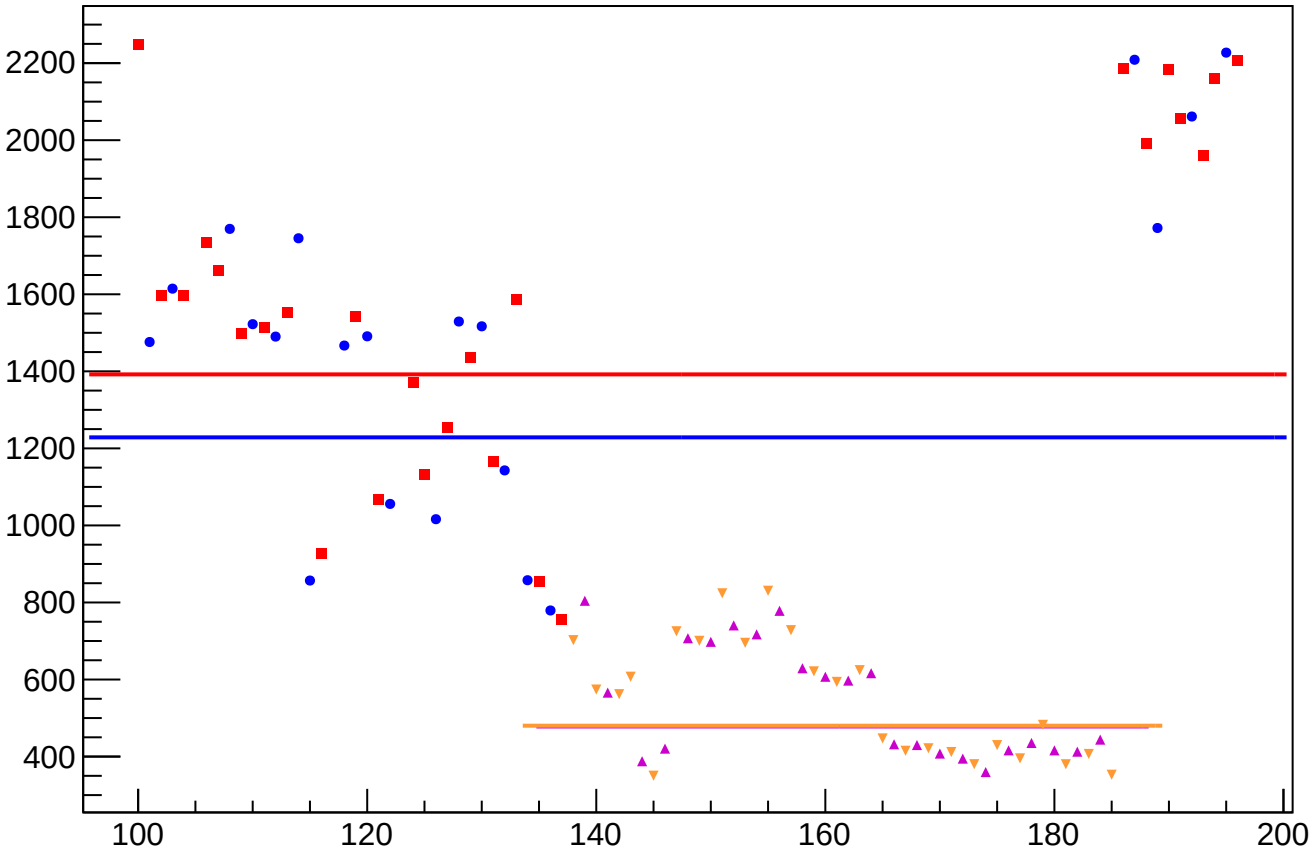
Left: -185.266+/-81.034 $\chi^2$/NDF: 102.0/47

Right: 4.584+/-297.008 $\chi^2$/NDF: 45.4/45

In: -20.108+/-111.545 $\chi^2$/NDF:54.3/42

Out: -318.854+/-109.597 $\chi^2$/NDF:89.8/50

All: -172.113+/-78.176 $\chi^2$/NDF: 147.8/93




Right In: 1228.568+/-0.295 $\chi^2$/NDF: 2057370.0/19

Left Out: 480.162+/-0.080 $\chi^2$/NDF:2582213.9/24

Right Out: 1392.075+/-0.299 $\chi^2$/NDF: 2114064.4/25

Left In: 478.084+/-0.082 $\chi^2$/NDF:2215520.4/22

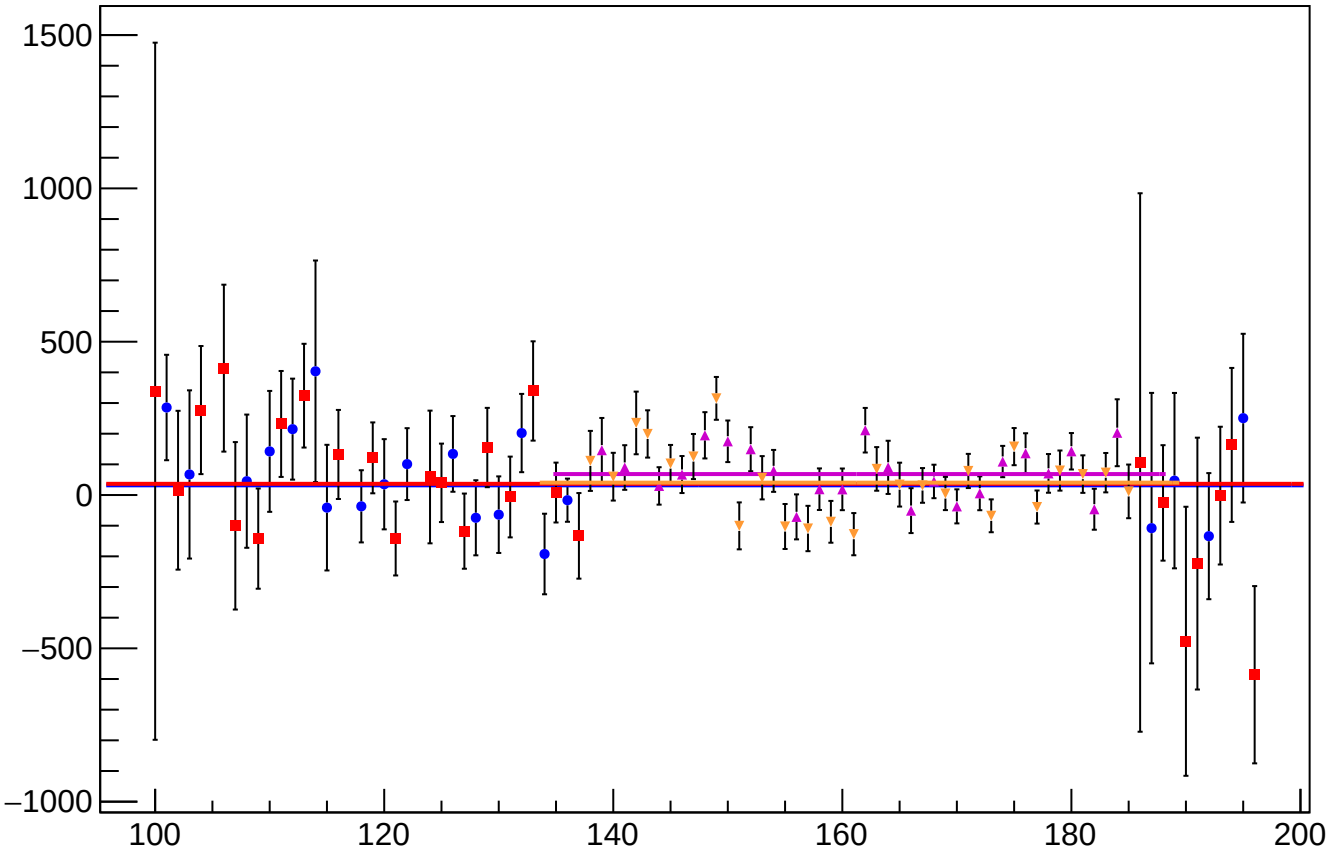
Left: 479.144+/-0.057 $\chi^2$/NDF: 4798063.1/47

Right: 1309.103+/-0.210 $\chi^2$/NDF: 4322933.0/45

In: 531.800+/-0.079 $\chi^2$/NDF:10289074.3/42

Out: 541.320+/-0.077 $\chi^2$/NDF:13359819.6/50

All: 536.644+/-0.055 $\chi^2$/NDF: 23656307.3/93




Right In: 31.637+/-32.873 $\chi^2$/NDF: 14.2/19

Left Out: 40.344+/-13.402 $\chi^2$/NDF:59.4/24

Right Out: 36.519+/-33.122 $\chi^2$/NDF: 26.5/25

Left In: 68.343+/-13.866 $\chi^2$/NDF:31.7/22

Left: 53.867+/-9.637 $\chi^2$/NDF: 93.3/47

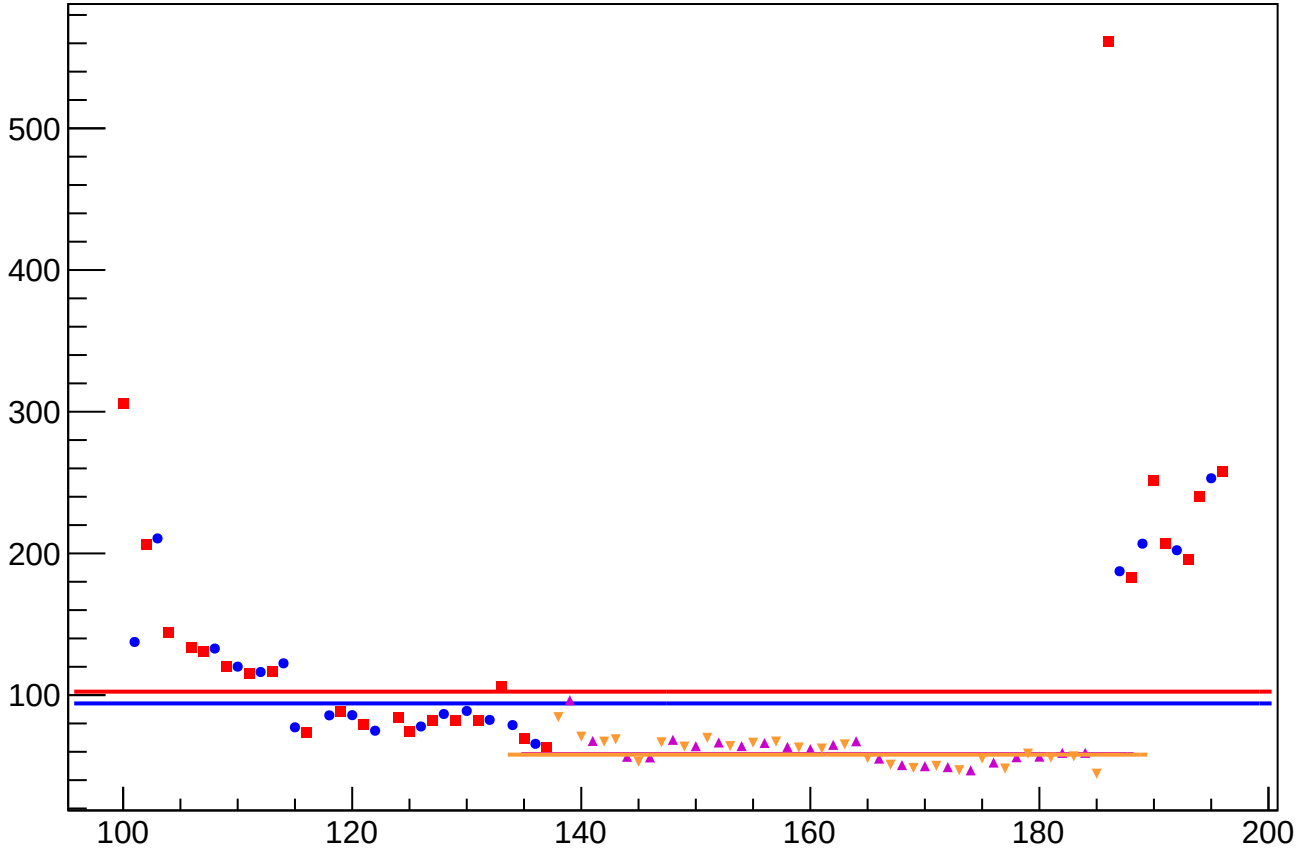
Right: 34.059+/-23.332 $\chi^2$/NDF: 40.7/45

In: 62.799+/-12.776 $\chi^2$/NDF:47.0/42

Out: 39.806+/-12.423 $\chi^2$/NDF:85.9/50

All: 50.981+/-8.907 $\chi^2$/NDF: 134.6/93

# cor_asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 94.144+/-0.023 $\chi^2$/NDF: 2756413.8/19

Left Out: 57.996+/-0.009 $\chi^2$/NDF:807648.7/24

Right Out: 102.451+/-0.023 $\chi^2$/NDF: 4190499.4/25

Left In: 58.397+/-0.010 $\chi^2$/NDF:735208.2/22

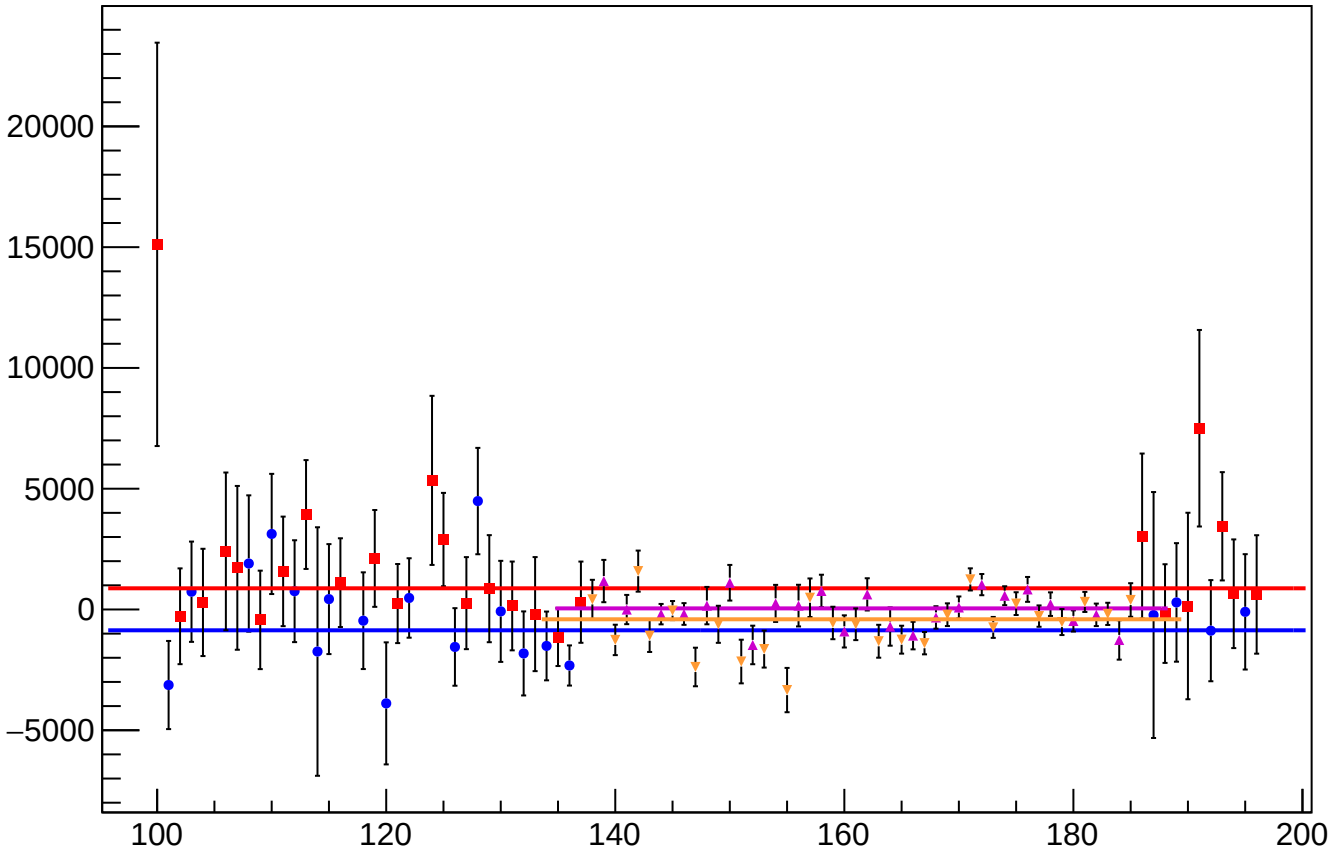
Left: 58.189+/-0.007 $\chi^2$/NDF: 1543722.4/47

Right: 98.266+/-0.016 $\chi^2$/NDF: 7010288.6/45

In: 63.796+/-0.009 $\chi^2$/NDF:5499388.5/42

Out: 64.250+/-0.009 $\chi^2$/NDF:8094019.6/50

All: 64.029+/-0.006 $\chi^2$/NDF: 13594702.5/93




Right In: -862.433+/-416.937 $\chi^2$/NDF: 18.9/19

Left Out: -406.320+/-113.468 $\chi^2$/NDF:63.2/24

Right Out: 876.466+/-423.672 $\chi^2$/NDF: 17.3/25

Left In: 44.830+/-115.765 $\chi^2$/NDF:31.1/22

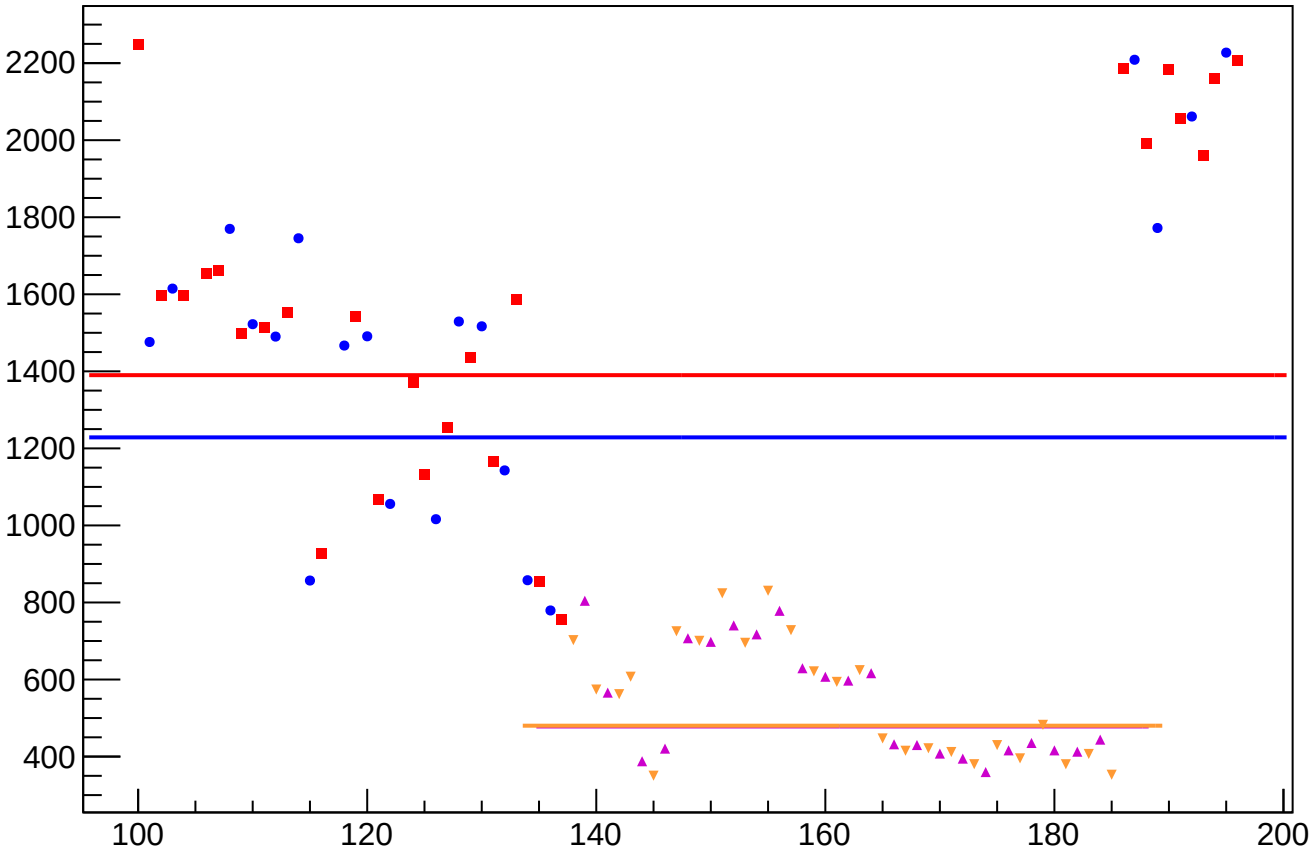
Left: -185.266+/-81.034 $\chi^2$/NDF: 102.0/47

Right: -6.915+/-297.172 $\chi^2$/NDF: 44.8/45

In: -20.107+/-111.545 $\chi^2$/NDF:54.3/42

Out: -320.467+/-109.605 $\chi^2$/NDF:89.1/50

All: -172.922+/-78.179 $\chi^2$/NDF: 147.1/93




Right In: 1228.570+/-0.295 $\chi^2$/NDF: 2057403.7/19

Left Out: 480.162+/-0.080 $\chi^2$/NDF:2582209.1/24

Right Out: 1390.063+/-0.300 $\chi^2$/NDF: 2102572.3/25

Left In: 478.084+/-0.082 $\chi^2$/NDF:2215518.9/22

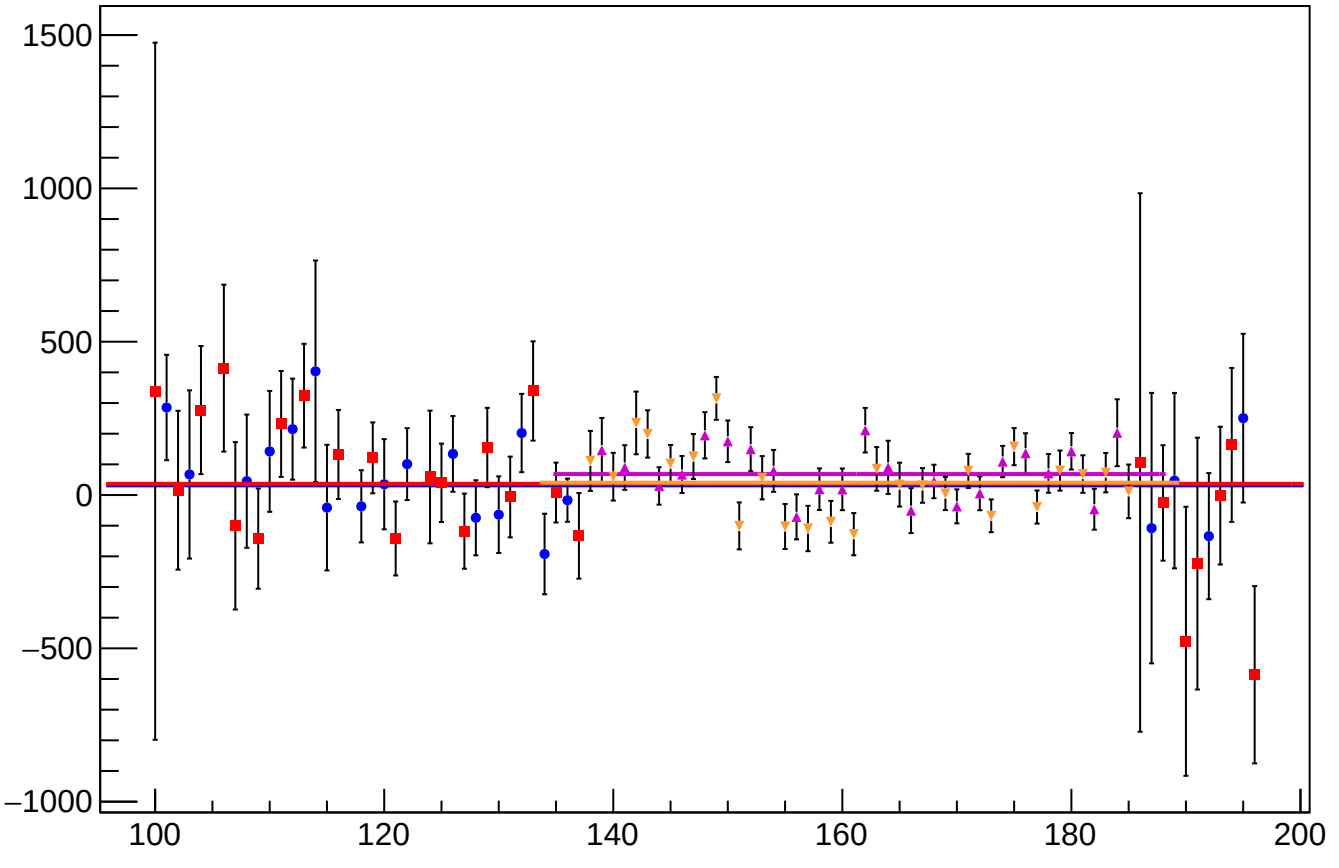
Left: 479.144+/-0.057 $\chi^2$/NDF: 4798056.8/47

Right: 1308.023+/-0.210 $\chi^2$/NDF: 4307597.9/45

In: 531.800+/-0.079 $\chi^2$/NDF:10289101.6/42

Out: 541.059+/-0.078 $\chi^2$/NDF:13292224.6/50

All: 536.510+/-0.055 $\chi^2$/NDF: 23588337.1/93




Right In: 31.637+/-32.873 $\chi^2$/NDF: 14.2/19

Left Out: 40.344+/-13.402 $\chi^2$/NDF:59.4/24

Right Out: 36.519+/-33.122 $\chi^2$/NDF: 26.5/25

Left In: 68.343+/-13.866 $\chi^2$/NDF:31.7/22

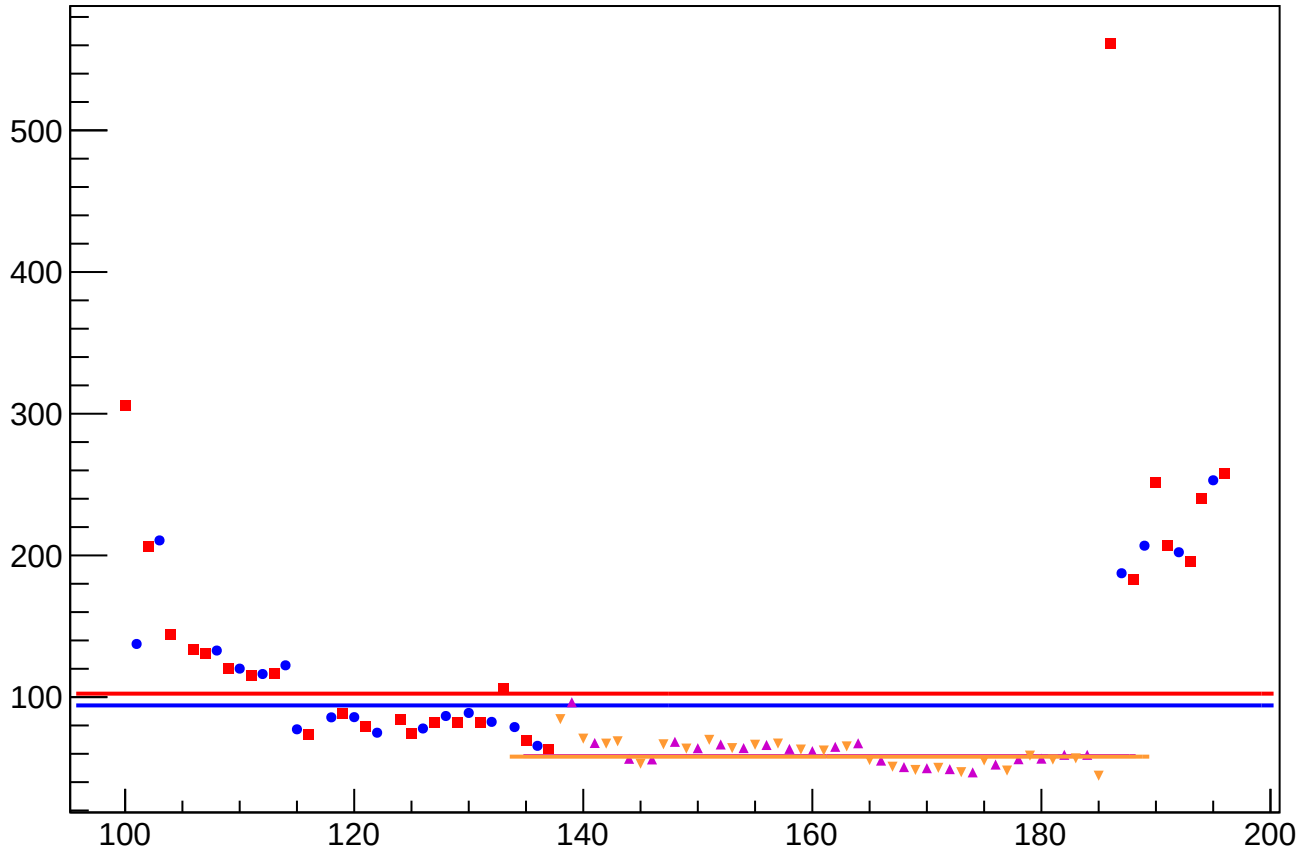
Left: 53.867+/-9.637 $\chi^2$/NDF: 93.3/47

Right: 34.059+/-23.332 $\chi^2$/NDF: 40.7/45

In: 62.799+/-12.776 $\chi^2$/NDF:47.0/42

Out: 39.806+/-12.423 $\chi^2$/NDF:85.9/50

All: 50.981+/-8.907 $\chi^2$/NDF: 134.6/93




Right In: 94.144+/-0.023 $\chi^2$/NDF: 2756413.8/19

Left Out: 57.996+/-0.009 $\chi^2$/NDF:807648.7/24

Right Out: 102.451+/-0.023 $\chi^2$/NDF: 4190499.4/25

Left In: 58.397+/-0.010 $\chi^2$/NDF:735208.2/22

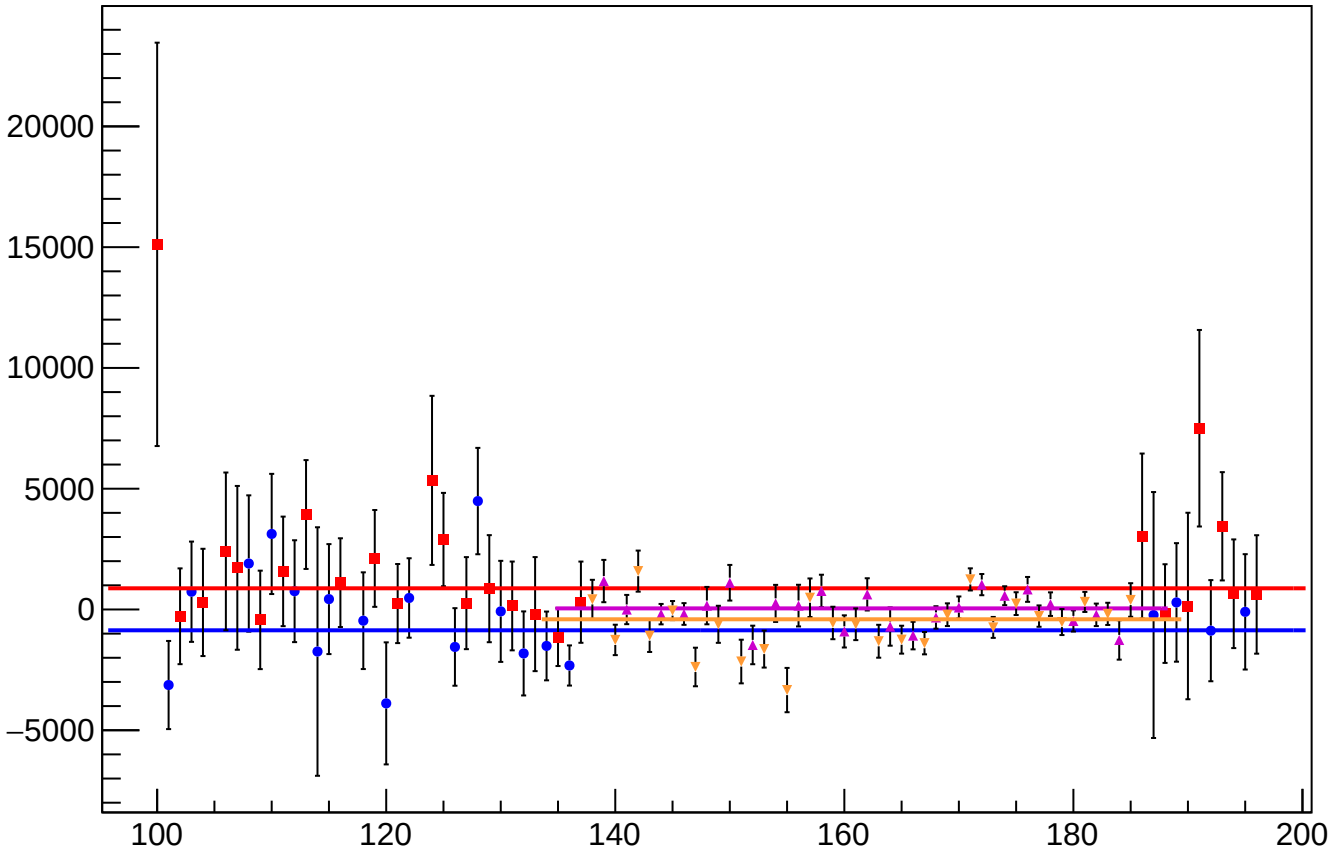
Left: 58.189+/-0.007 $\chi^2$/NDF: 1543722.4/47

Right: 98.266+/-0.016 $\chi^2$/NDF: 7010288.6/45

In: 63.796+/-0.009 $\chi^2$/NDF:5499388.5/42

Out: 64.250+/-0.009 $\chi^2$/NDF:8094019.6/50

All: 64.029+/-0.006 $\chi^2$/NDF: 13594702.5/93




Right In: -862.433+/-416.937 $\chi^2$/NDF: 18.9/19

Left Out: -406.320+/-113.468 $\chi^2$/NDF:63.2/24

Right Out: 876.466+/-423.672 $\chi^2$/NDF: 17.3/25

Left In: 44.830+/-115.765 $\chi^2$/NDF:31.1/22

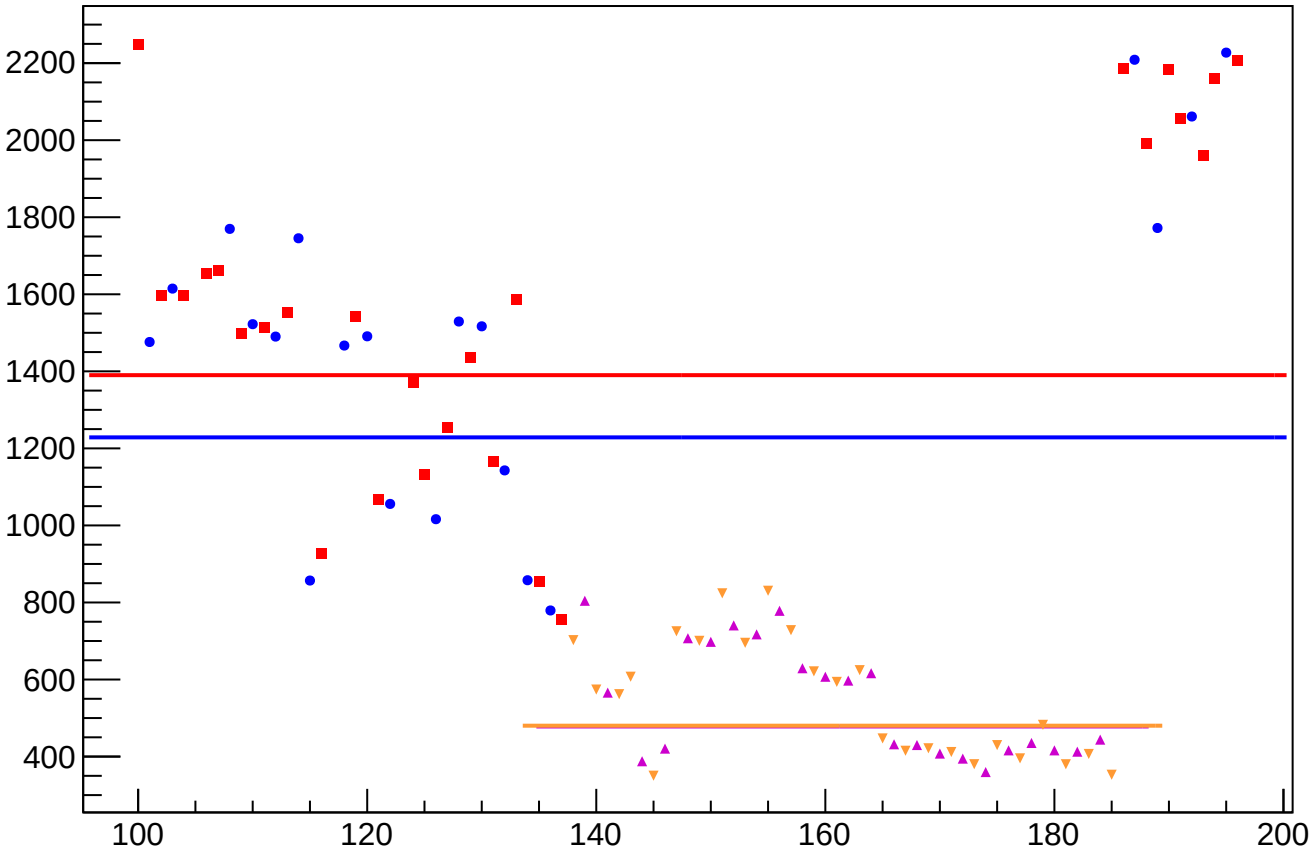
Left: -185.266+/-81.034 $\chi^2$/NDF: 102.0/47

Right: -6.915+/-297.172 $\chi^2$/NDF: 44.8/45

In: -20.107+/-111.545 $\chi^2$/NDF:54.3/42

Out: -320.467+/-109.605 $\chi^2$/NDF:89.1/50

All: -172.922+/-78.179 $\chi^2$/NDF: 147.1/93




Right In: 1228.570+/-0.295 $\chi^2$/NDF: 2057403.7/19

Left Out: 480.162+/-0.080 $\chi^2$/NDF:2582209.1/24

Right Out: 1390.063+/-0.300 $\chi^2$/NDF: 2102572.3/25

Left In: 478.084+/-0.082 $\chi^2$/NDF:2215518.9/22

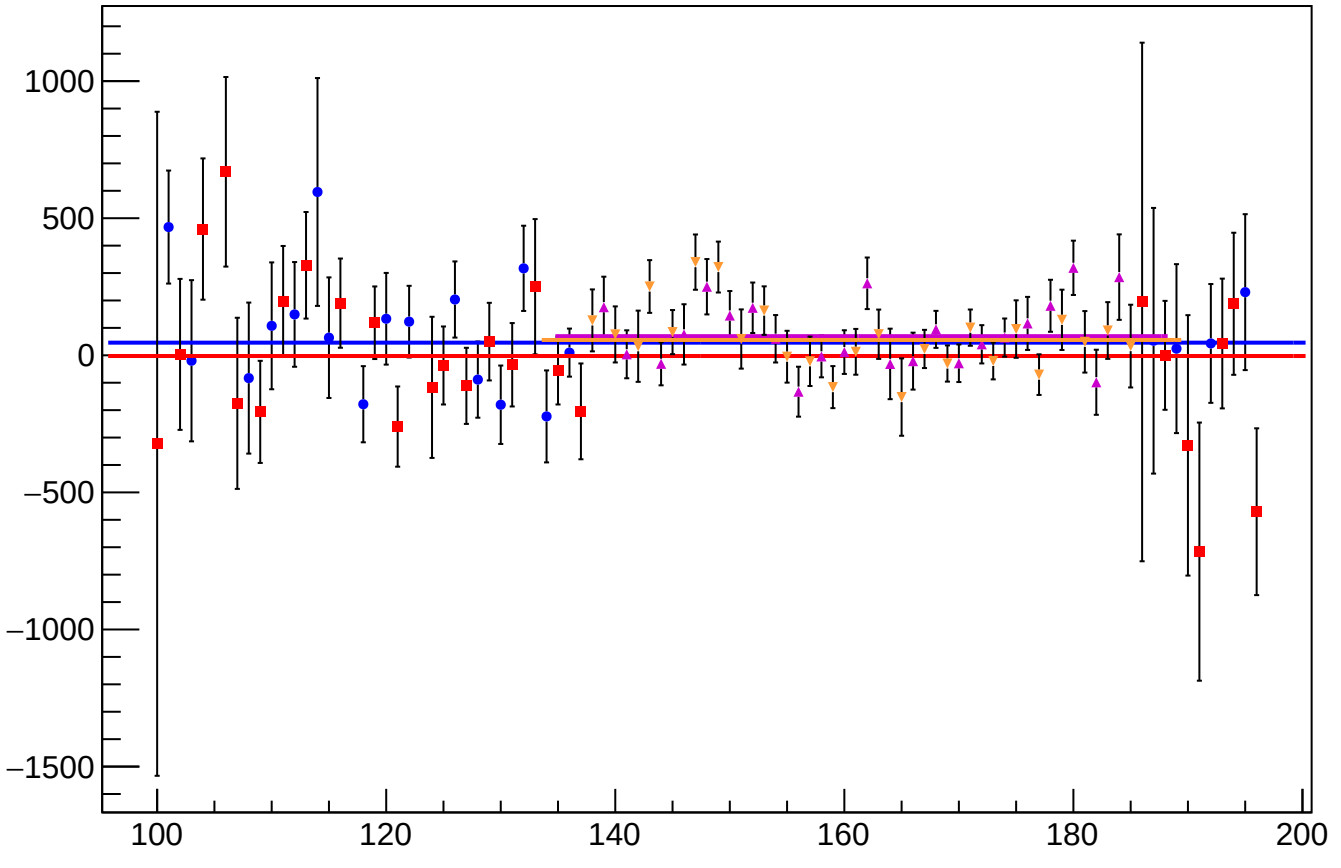
Left: 479.144+/-0.057 $\chi^2$/NDF: 4798056.8/47

Right: 1308.023+/-0.210 $\chi^2$/NDF: 4307597.9/45

In: 531.800+/-0.079 $\chi^2$/NDF:10289101.6/42

Out: 541.059+/-0.078 $\chi^2$/NDF:13292224.6/50

All: 536.510+/-0.055 $\chi^2$/NDF: 23588337.1/93




Right In: 46.135+/-38.487 $\chi^2$/NDF: 20.7/19

Left Out: 55.949+/-17.949 $\chi^2$/NDF:38.3/24

Right Out: -2.586+/-38.572 $\chi^2$/NDF: 28.3/25

Left In: 69.844+/-18.497 $\chi^2$/NDF:34.5/22

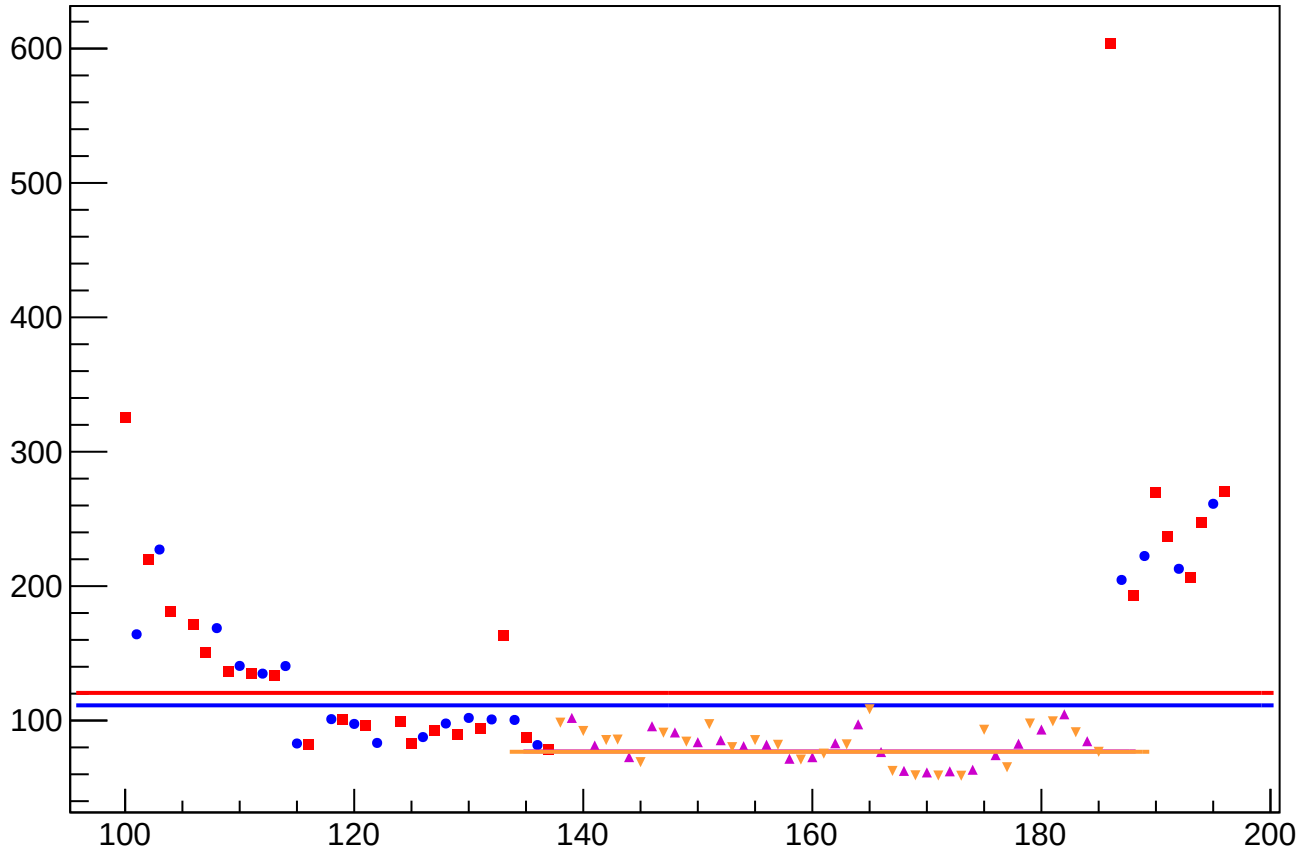
Left: 62.687+/-12.881 $\chi^2$/NDF: 73.1/47

Right: 21.828+/-27.245 $\chi^2$/NDF: 49.8/45

In: 65.395+/-16.671 $\chi^2$/NDF:55.6/42

Out: 45.530+/-16.274 $\chi^2$/NDF:68.5/50

All: 55.223+/-11.645 $\chi^2$/NDF: 124.8/93




Right In: 111.294+/-0.027 $\chi^2$/NDF: 2412381.1/19

Left Out: 76.744+/-0.013 $\chi^2$/NDF:1234629.1/24

Right Out: 120.552+/-0.027 $\chi^2$/NDF: 3779811.0/25

Left In: 77.018+/-0.013 $\chi^2$/NDF:858871.7/22

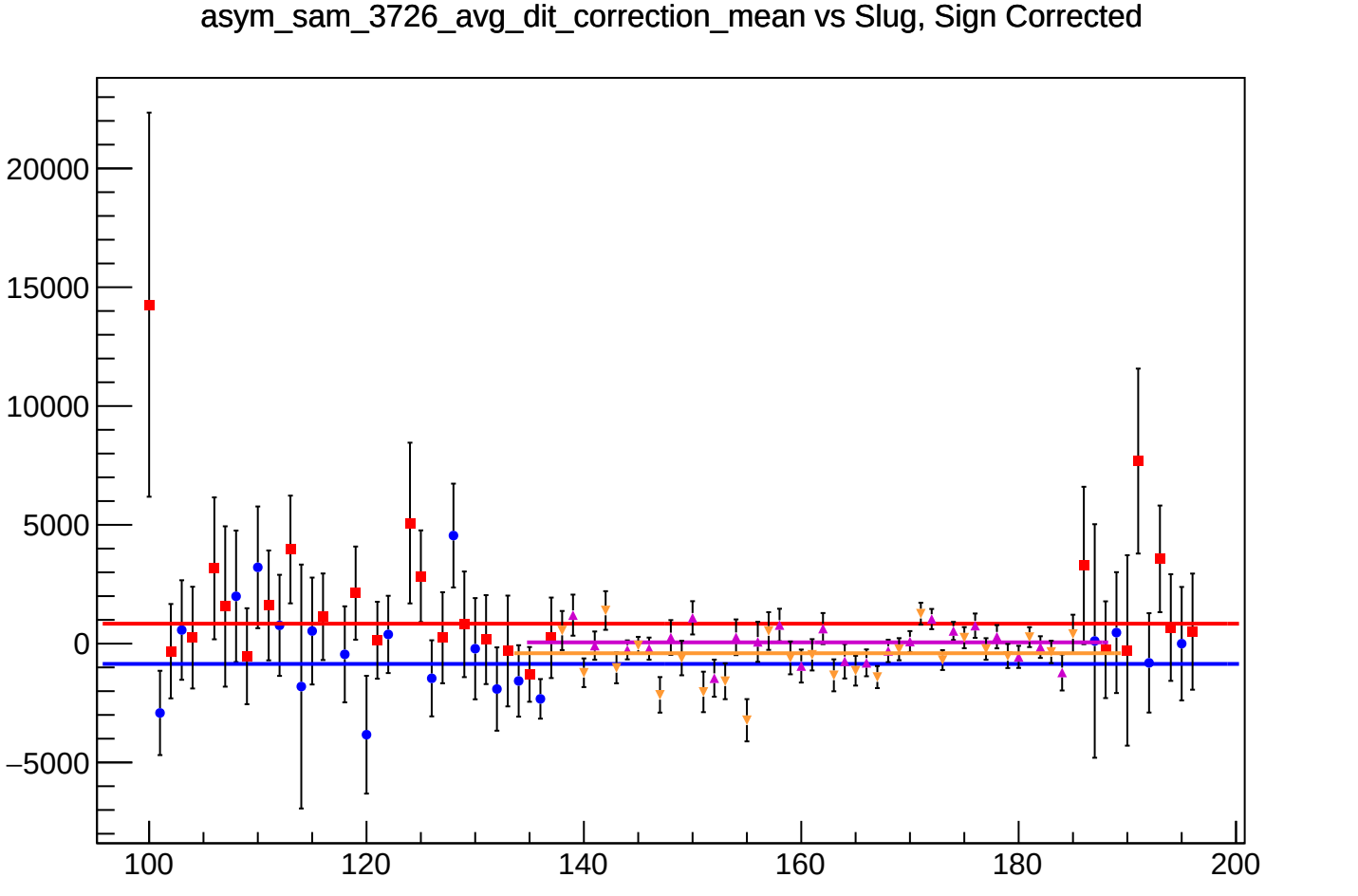
Left: 76.877+/-0.009 $\chi^2$/NDF: 2093727.3/47

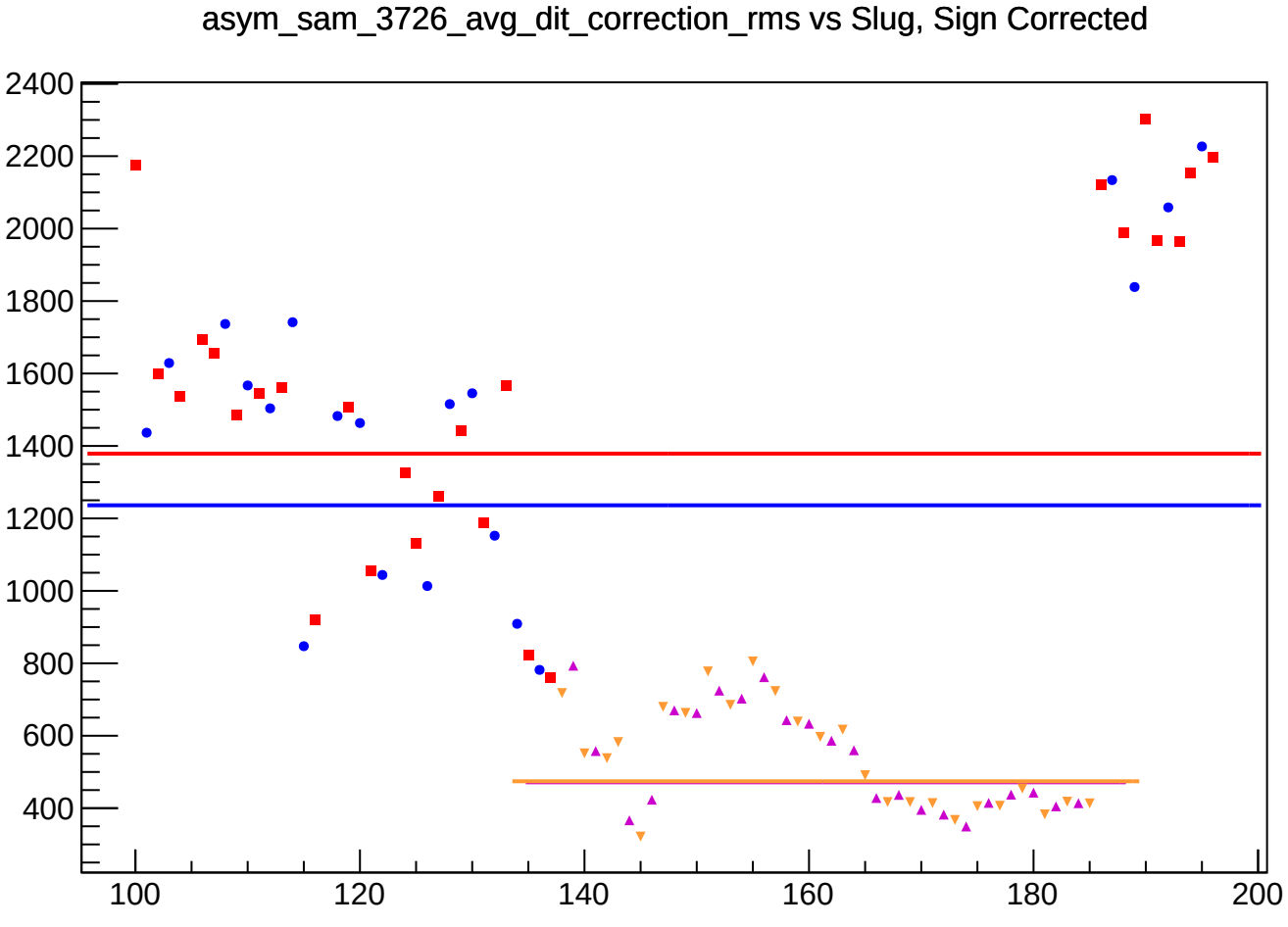
Right: 115.913+/-0.019 $\chi^2$/NDF: 6249927.6/45

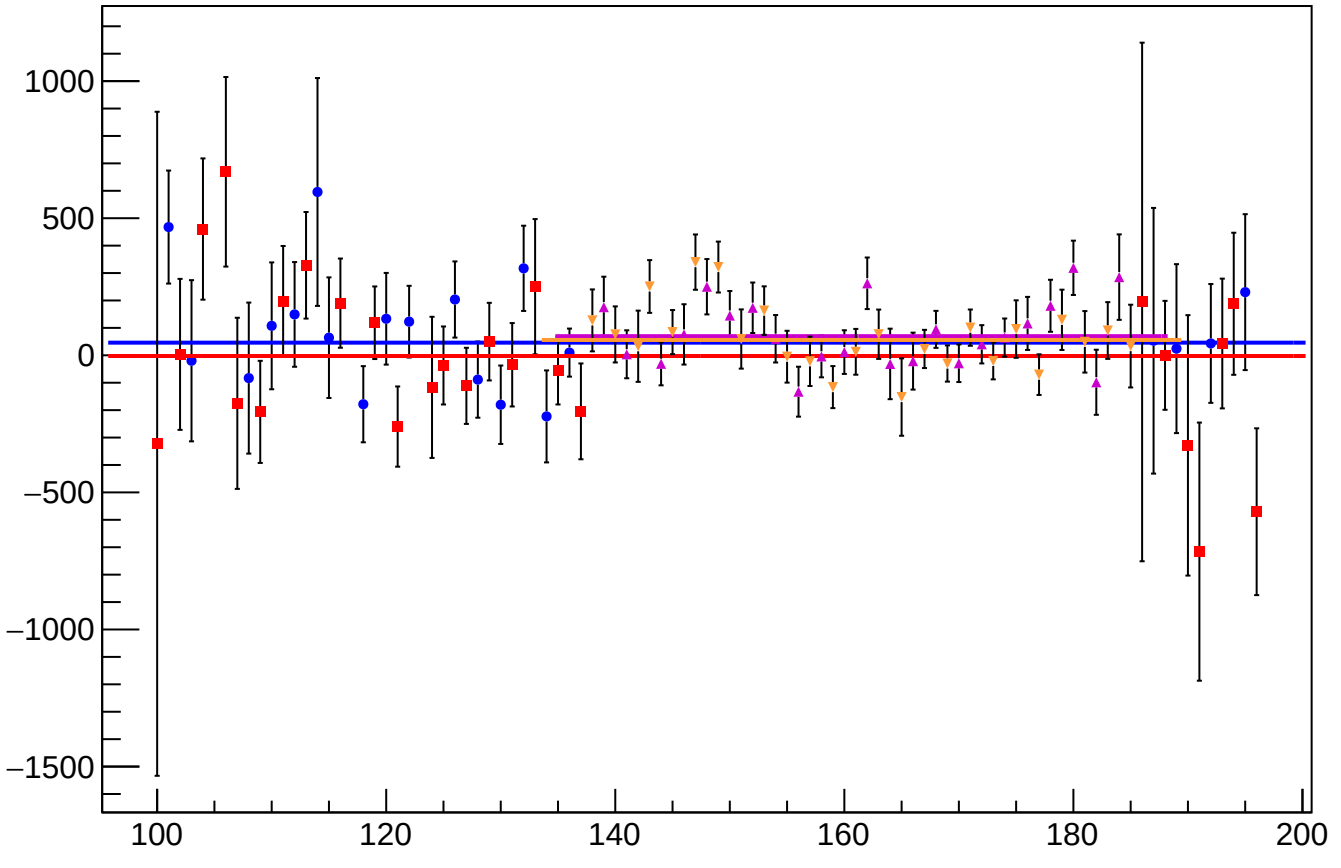
In: 83.449+/-0.012 $\chi^2$/NDF:4559922.2/42

Out: 84.542+/-0.012 $\chi^2$/NDF:7135116.1/50

All: 84.009+/-0.008 $\chi^2$/NDF: 11699434.5/93


asym_sam_3726_avg_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -853.319+/-418.775 χ²/NDF: 18.9/19
Left Out: -403.375+/-111.773 χ²/NDF:60.7/24
Right Out: 839.096+/-419.371 χ²/NDF: 19.1/25
Left In: 54.192+/-114.223 χ²/NDF:30.7/22
Left: -179.552+/-79.888 χ²/NDF: 99.6/47
Right: -8.315+/-296.329 χ²/NDF: 46.2/45
In: -8.648+/-110.198 χ²/NDF:54.0/42
Out: -320.969+/-108.003 χ²/NDF:88.0/50
All: -167.950+/-77.134 χ²/NDF: 146.1/93


asym_sam_3726_avg_dit_correction_rms vs Slug, Sign Corrected
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
100
120
140
160
180
200
Right In: 1236.151+/-0.296 χ²/NDF: 2021295.8/19
Left Out: 474.294+/-0.079 χ²/NDF:2538995.4/24
Right Out: 1378.796+/-0.297 χ²/NDF: 2175167.1/25
Left In: 471.456+/-0.081 χ²/NDF:2209343.4/22
Left: 472.906+/-0.056 χ²/NDF: 4748969.5/47
Right: 1307.372+/-0.210 χ²/NDF: 4312322.8/45
In: 524.407+/-0.078 χ²/NDF:10437618.9/42
Out: 534.285+/-0.076 χ²/NDF:13400717.8/50
All: 529.445+/-0.055 χ²/NDF: 23846533.4/93




Right In: 46.135+/-38.487 $\chi^2$/NDF: 20.7/19

Left Out: 55.948+/-17.949 $\chi^2$/NDF:38.3/24

Right Out: -2.588+/-38.572 $\chi^2$/NDF: 28.3/25

Left In: 69.843+/-18.497 $\chi^2$/NDF:34.5/22

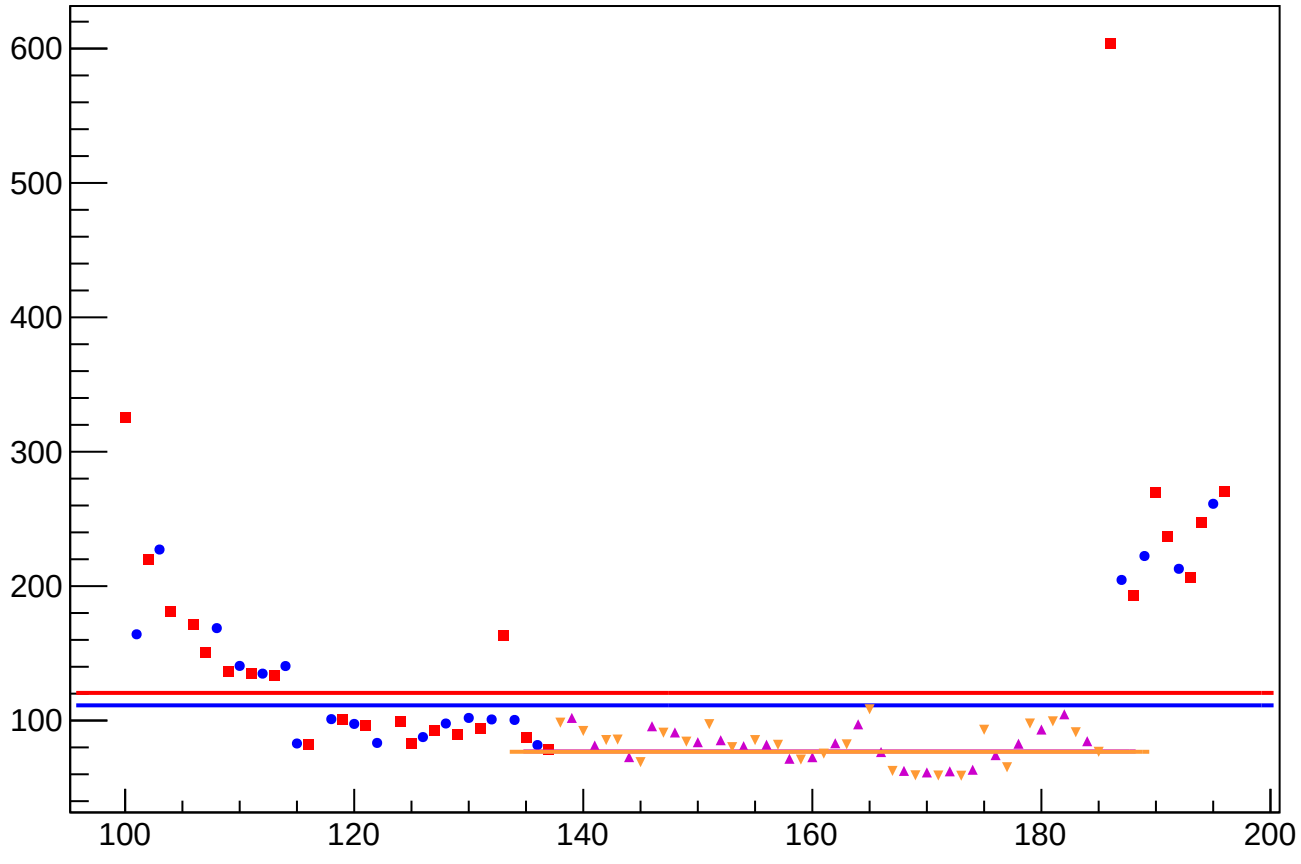
Left: 62.687+/-12.881 $\chi^2$/NDF: 73.1/47

Right: 21.827+/-27.245 $\chi^2$/NDF: 49.8/45

In: 65.395+/-16.671 $\chi^2$/NDF:55.6/42

Out: 45.528+/-16.274 $\chi^2$/NDF:68.5/50

All: 55.222+/-11.645 $\chi^2$/NDF: 124.8/93




Right In: 111.294+/-0.027 $\chi^2$/NDF: 2412382.8/19

Left Out: 76.744+/-0.013 $\chi^2$/NDF:1234627.7/24

Right Out: 120.552+/-0.027 $\chi^2$/NDF: 3779815.8/25

Left In: 77.018+/-0.013 $\chi^2$/NDF:858863.2/22

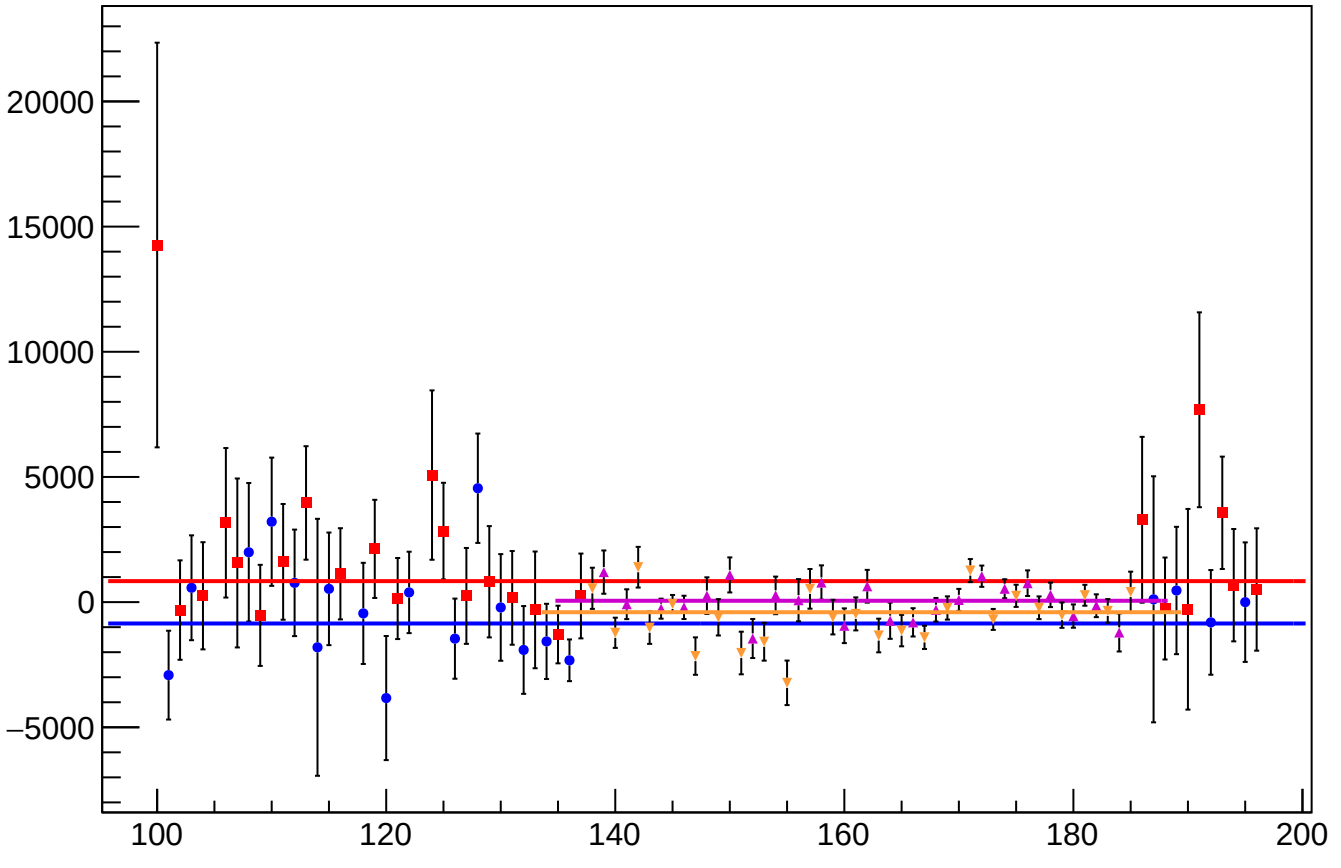
Left: 76.877+/-0.009 $\chi^2$/NDF: 2093717.5/47

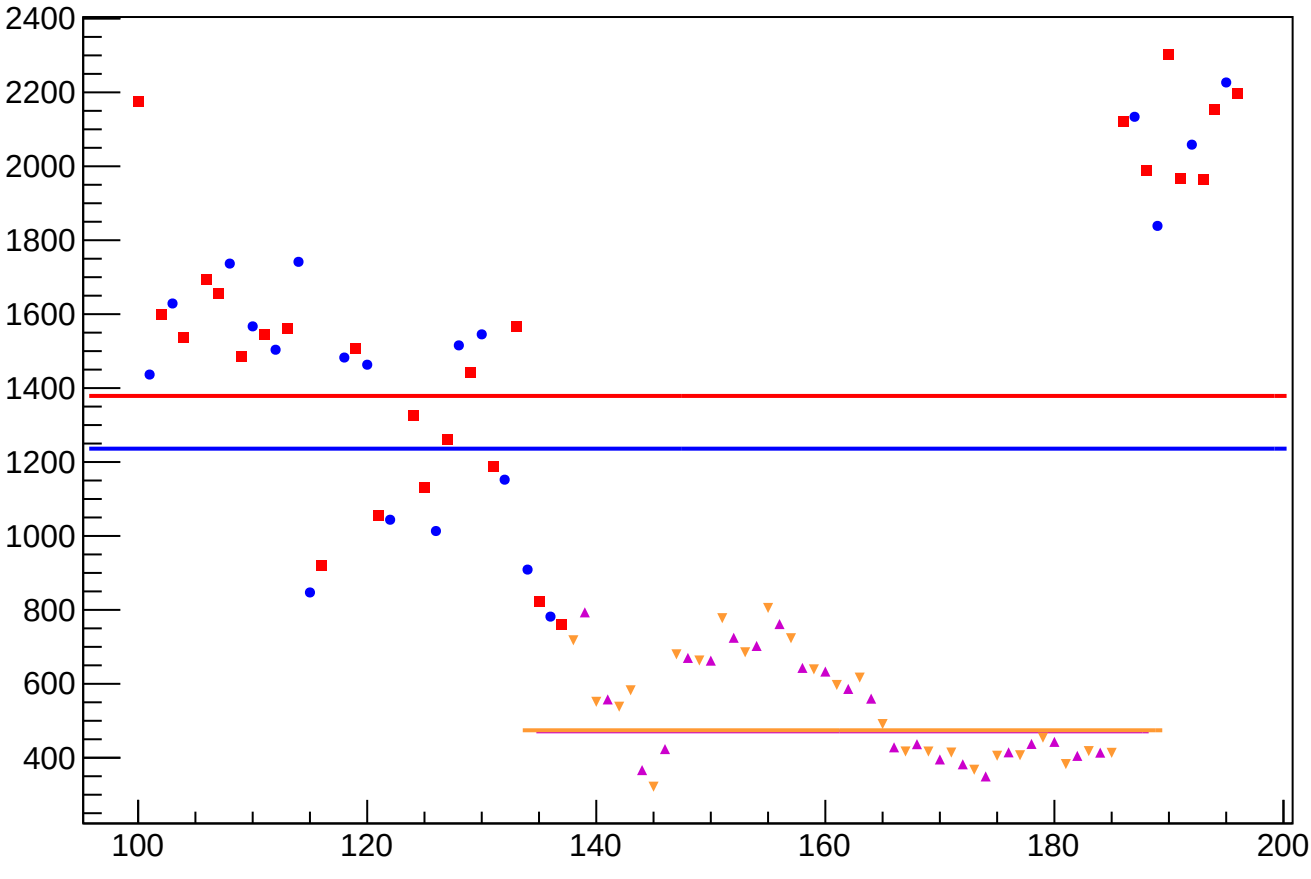
Right: 115.913+/-0.019 $\chi^2$/NDF: 6249936.3/45

In: 83.450+/-0.012 $\chi^2$/NDF:4559877.6/42

Out: 84.542+/-0.012 $\chi^2$/NDF:7135085.3/50

All: 84.009+/-0.008 $\chi^2$/NDF: 11699359.1/93


asym_sam_3726_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
100
120
140
160
180
200
Right In: -853.315+/-418.775 χ²/NDF: 18.9/19
Left Out: -403.375+/-111.773 χ²/NDF:60.7/24
Right Out: 839.096+/-419.371 χ²/NDF: 19.1/25
Left In: 54.192+/-114.223 χ²/NDF:30.7/22
Left: -179.551+/-79.888 χ²/NDF: 99.6/47
Right: -8.313+/-296.329 χ²/NDF: 46.2/45
In: -8.648+/-110.198 χ²/NDF:54.0/42
Out: -320.968+/-108.003 χ²/NDF:88.0/50
All: -167.949+/-77.134 χ²/NDF: 146.1/93




Right In: 1236.149+/-0.296 $\chi^2$/NDF: 2021285.0/19

Left Out: 474.294+/-0.079 $\chi^2$/NDF:2538999.2/24

Right Out: 1378.794+/-0.297 $\chi^2$/NDF: 2175161.2/25

Left In: 471.456+/-0.081 $\chi^2$/NDF:2209338.4/22

Left: 472.905+/-0.056 $\chi^2$/NDF: 4748968.3/47

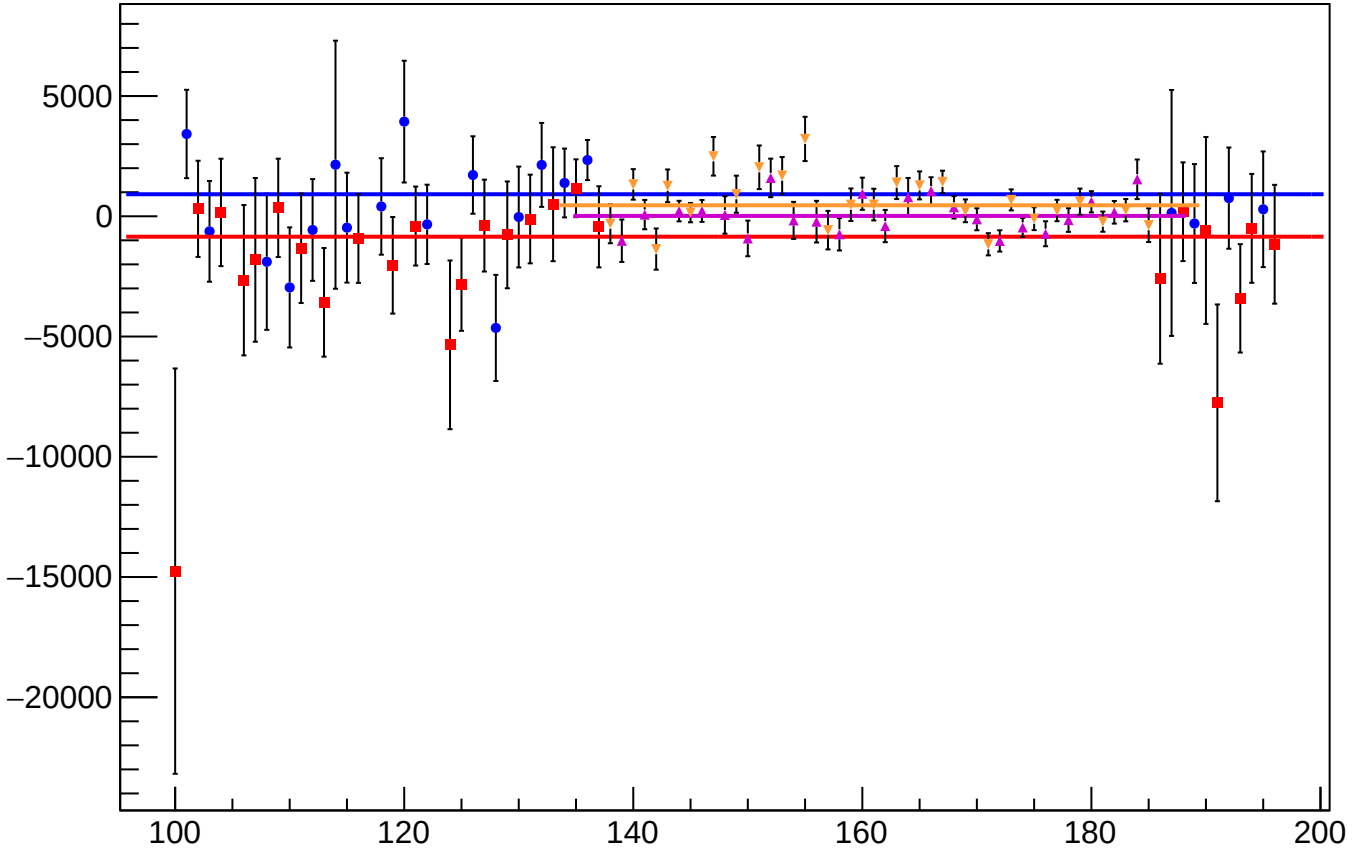
Right: 1307.370+/-0.210 $\chi^2$/NDF: 4312305.5/45

In: 524.406+/-0.078 $\chi^2$/NDF:10437600.5/42

Out: 534.284+/-0.076 $\chi^2$/NDF:13400710.5/50

All: 529.445+/-0.055 $\chi^2$/NDF: 23846507.4/93

# asym_sam_3726_avg_mean vs Slug, Sign Corrected




Right In: 916.142+/-418.681 $\chi^2$/NDF: 19.4/19

Left Out: 457.286+/-114.351 $\chi^2$/NDF:59.4/24

Right Out: -849.153+/-425.128 $\chi^2$/NDF: 16.7/25

Left In: 15.089+/-116.701 $\chi^2$/NDF:30.3/22

Left: 240.684+/-81.677 $\chi^2$/NDF: 97.0/47

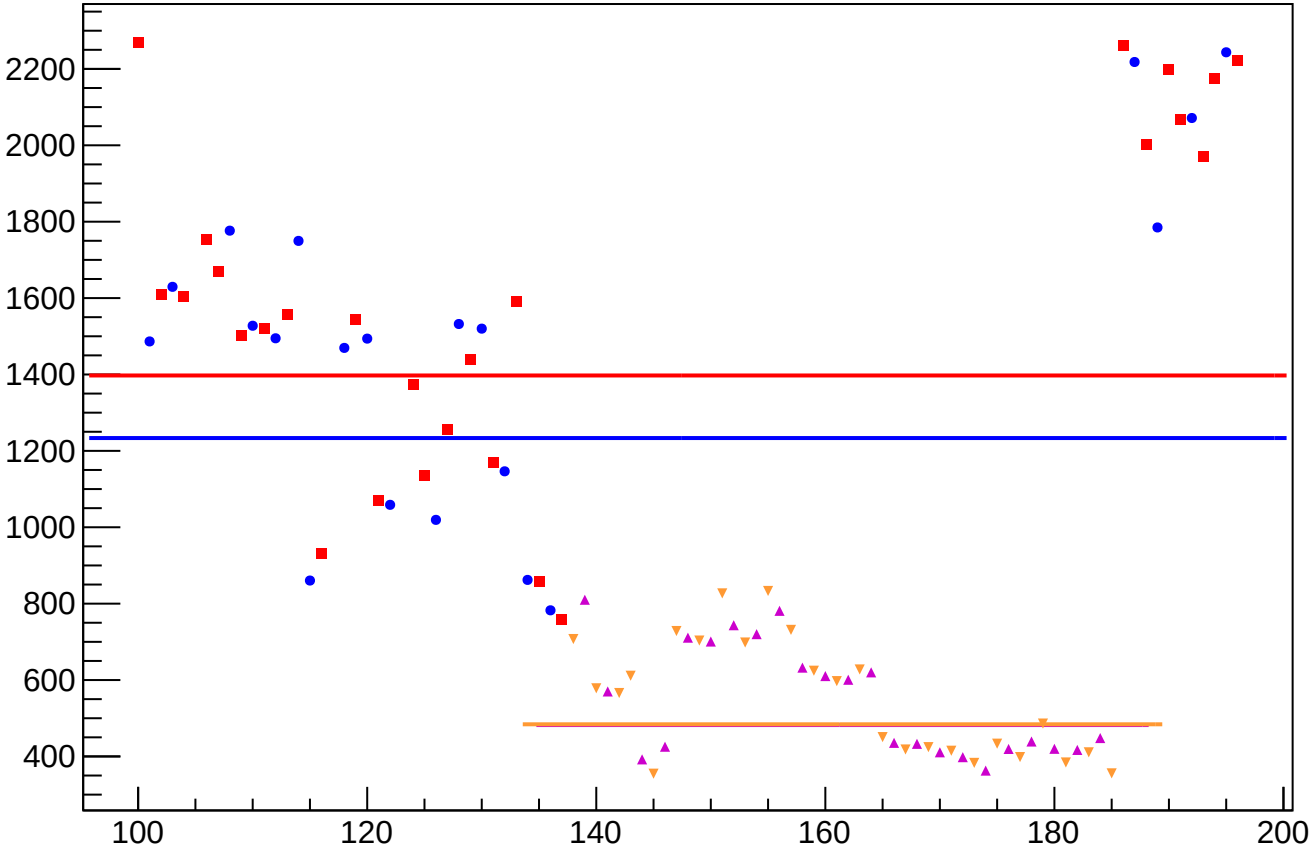
Right: 46.981+/-298.305 $\chi^2$/NDF: 44.9/45

In: 80.048+/-112.415 $\chi^2$/NDF:54.0/42

Out: 369.142+/-110.426 $\chi^2$/NDF:84.9/50

All: 227.175+/-78.777 $\chi^2$/NDF: 142.3/93

# asym_sam_3726_avg_rms vs Slug, Sign Corrected




Right In: 1233.571+/-0.296 $\chi^2$/NDF: 2061944.6/19

Left Out: 484.128+/-0.081 $\chi^2$/NDF:2548479.4/24

Right Out: 1397.387+/-0.301 $\chi^2$/NDF: 2139766.6/25

Left In: 482.160+/-0.083 $\chi^2$/NDF:2186689.9/22

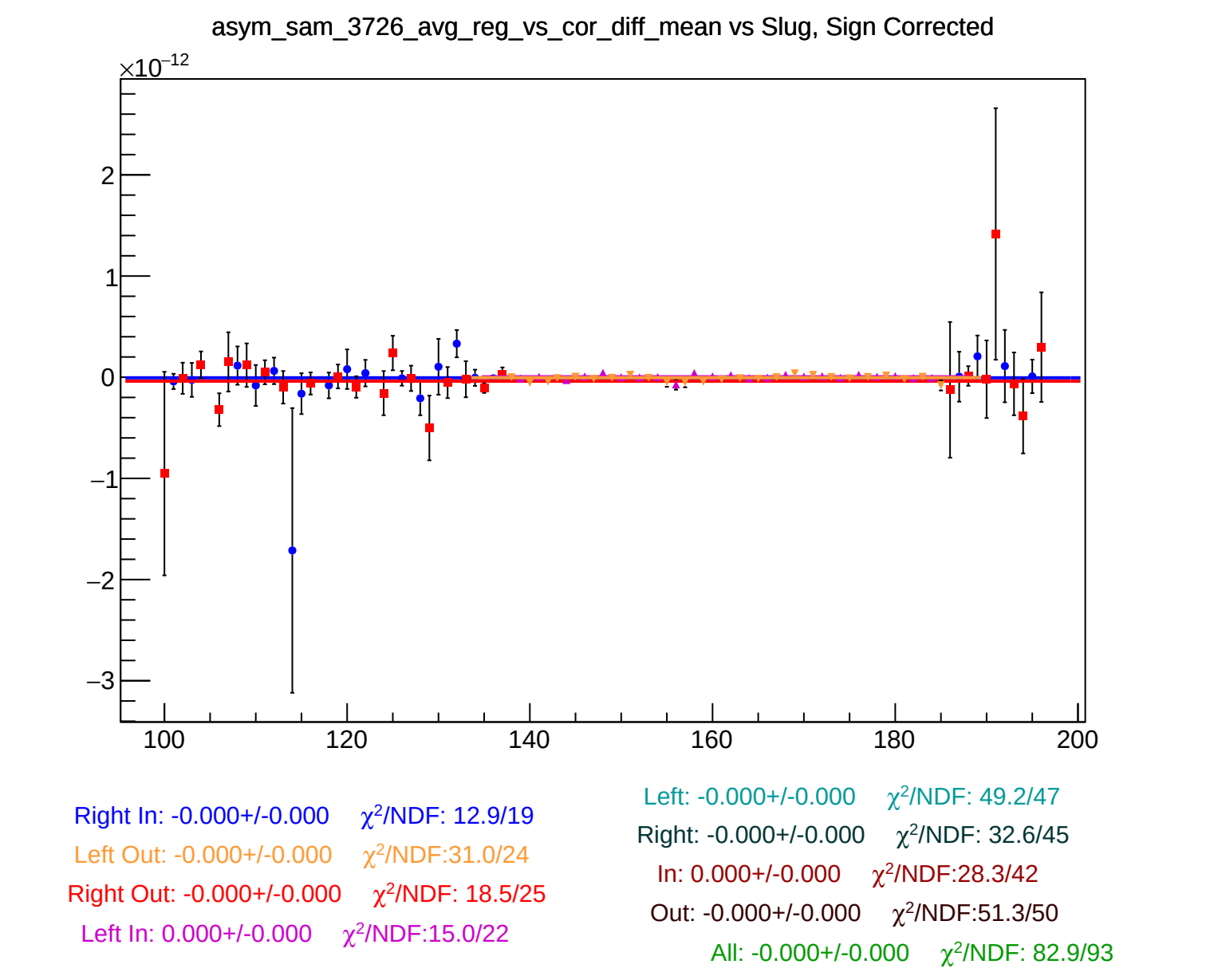
Left: 483.164+/-0.058 $\chi^2$/NDF: 4735459.6/47

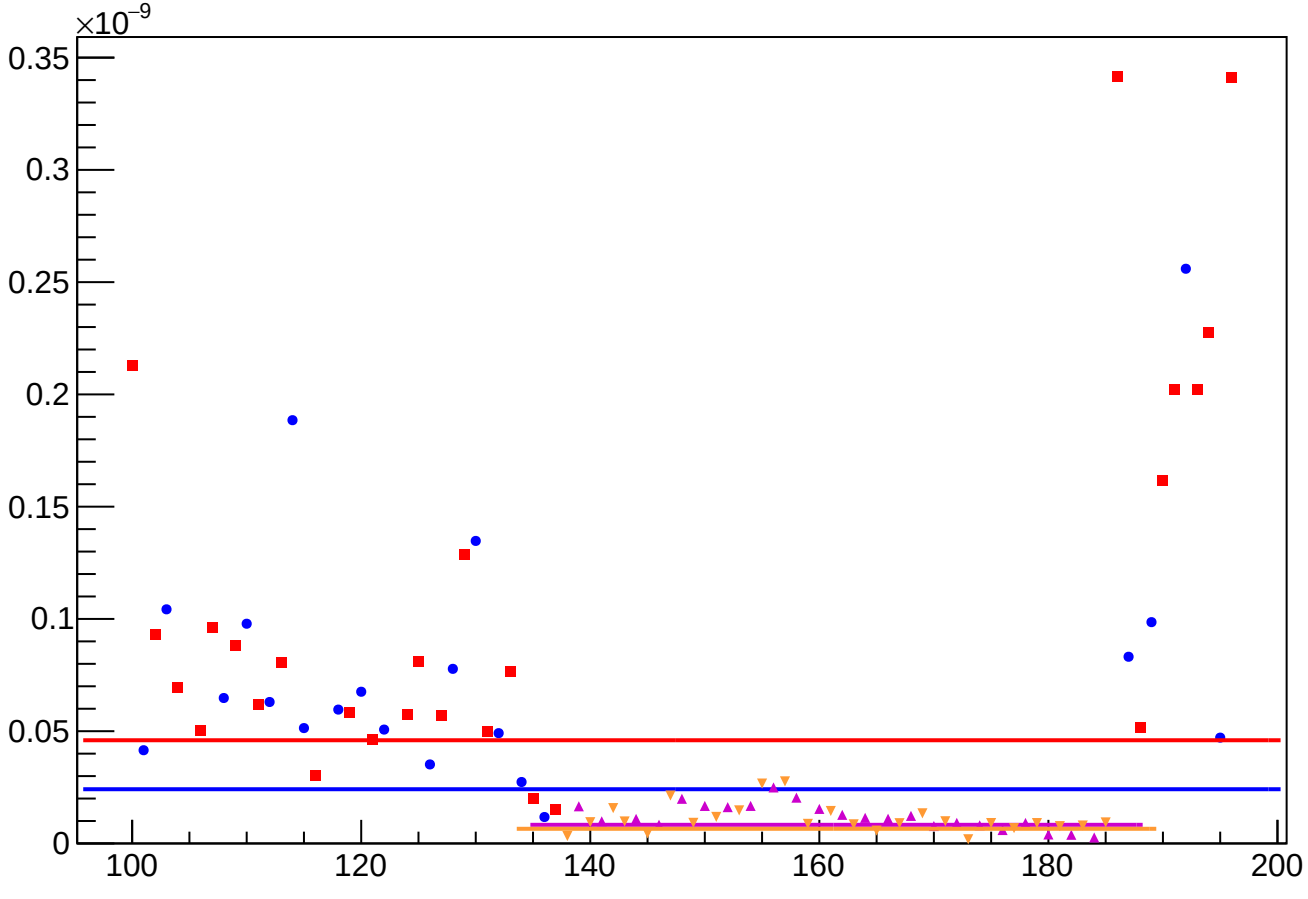
Right: 1314.227+/-0.211 $\chi^2$/NDF: 4352461.8/45

In: 536.330+/-0.079 $\chi^2$/NDF:10226193.7/42

Out: 545.745+/-0.078 $\chi^2$/NDF:13295043.7/50

All: 541.122+/-0.056 $\chi^2$/NDF: 23528376.3/93


asym_sam_3726_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
2
1
0
−1
−2
−3
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 12.9/19
Left Out: -0.000+/-0.000 χ²/NDF:31.0/24
Right Out: -0.000+/-0.000 χ²/NDF: 18.5/25
Left In: 0.000+/-0.000 χ²/NDF:15.0/22
Left: -0.000+/-0.000 χ²/NDF: 49.2/47
Right: -0.000+/-0.000 χ²/NDF: 32.6/45
In: 0.000+/-0.000 χ²/NDF:28.3/42
Out: -0.000+/-0.000 χ²/NDF:51.3/50
All: -0.000+/-0.000 χ²/NDF: 82.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4126070.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3737127.3/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4102241.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2799238.8/22

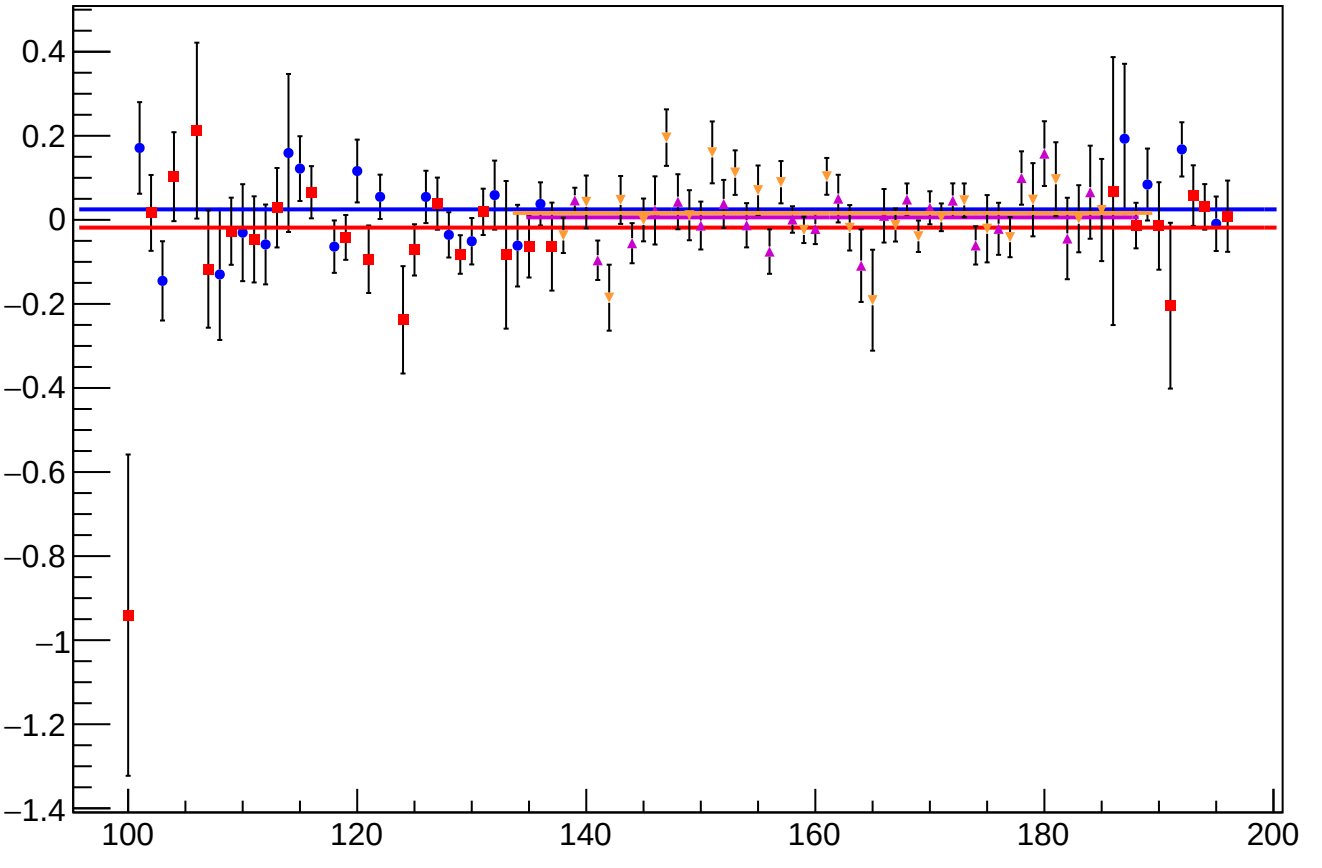
Left: 0.000+/-0.000 $\chi^2$/NDF: 6795469.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9220479.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:8558574.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12443809.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21317401.7/93




Right In: 0.025+/-0.017 $\chi^2$/NDF: 23.9/19

Left Out: 0.016+/-0.010 $\chi^2$/NDF:41.1/24

Right Out: -0.018+/-0.015 $\chi^2$/NDF: 22.9/25

Left In: 0.006+/-0.010 $\chi^2$/NDF:26.0/22

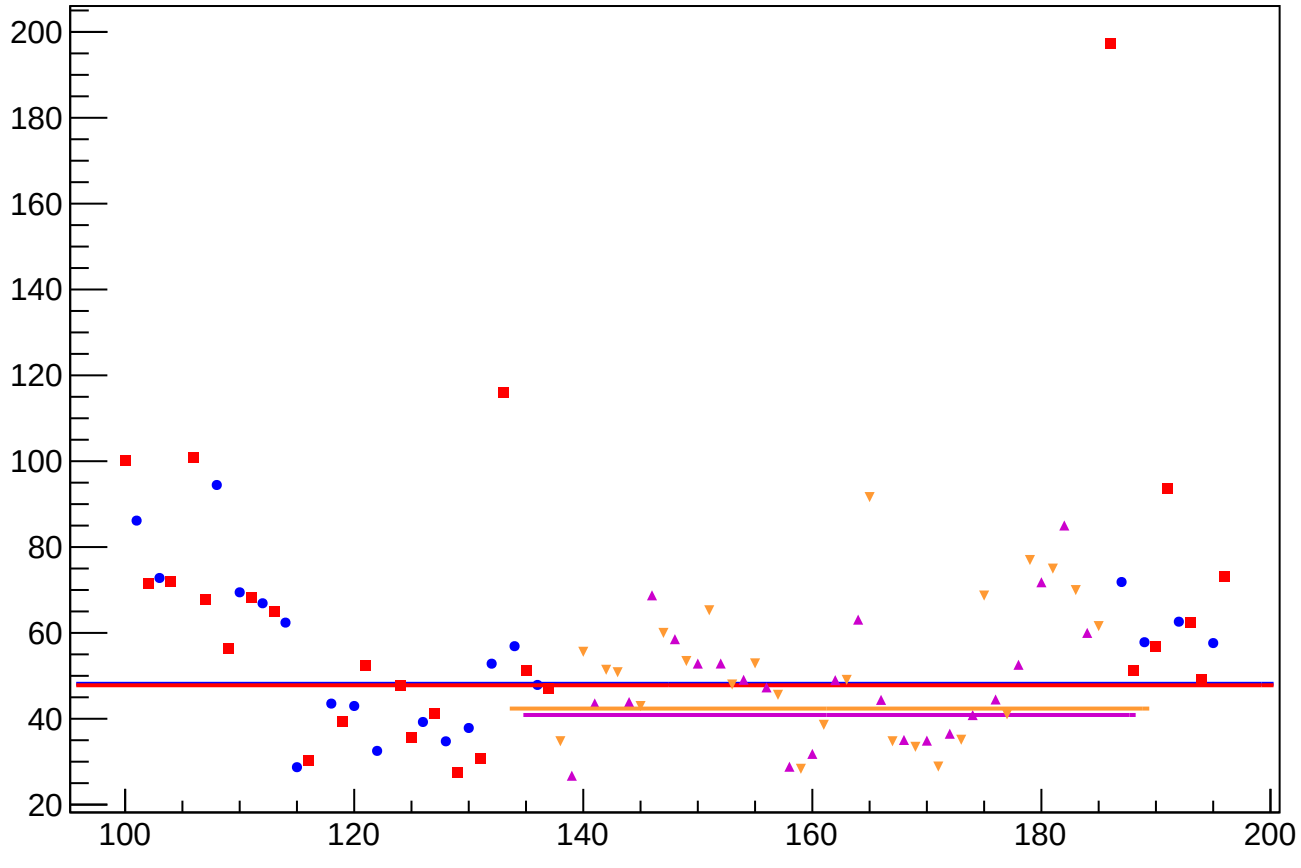
Left: 0.011+/-0.007 $\chi^2$/NDF: 67.5/47

Right: 0.001+/-0.011 $\chi^2$/NDF: 50.5/45

In: 0.011+/-0.009 $\chi^2$/NDF:50.8/42

Out: 0.006+/-0.009 $\chi^2$/NDF:67.6/50

All: 0.008+/-0.006 $\chi^2$/NDF: 118.6/93




Right In: 48.143+/-0.012 $\chi^2$/NDF: 1499324.0/19

Left Out: 42.375+/-0.007 $\chi^2$/NDF:3190972.5/24

Right Out: 47.804+/-0.011 $\chi^2$/NDF: 2661382.1/25

Left In: 40.881+/-0.007 $\chi^2$/NDF:2678327.2/22

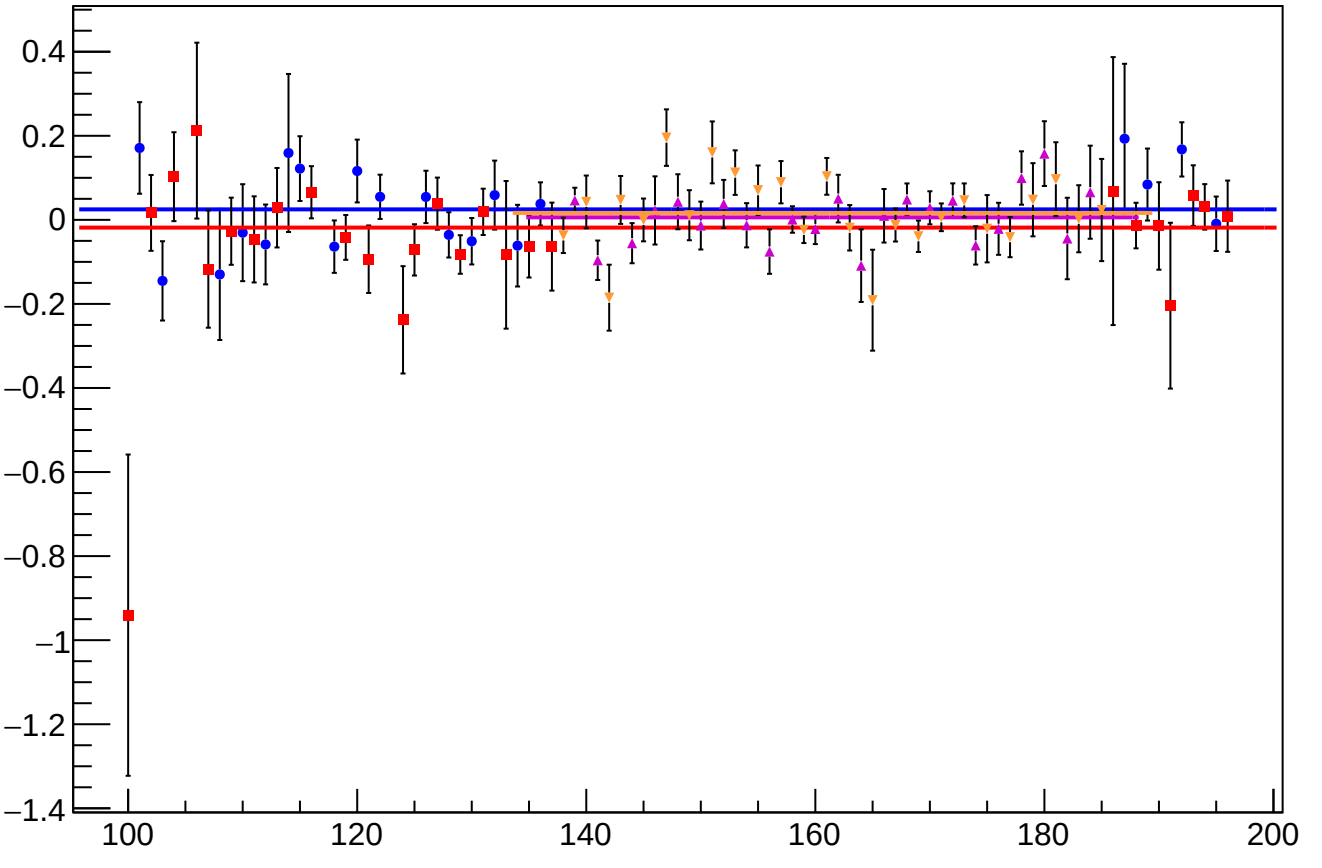
Left: 41.623+/-0.005 $\chi^2$/NDF: 5890281.6/47

Right: 47.960+/-0.008 $\chi^2$/NDF: 4161156.5/45

In: 42.893+/-0.006 $\chi^2$/NDF:4454173.4/42

Out: 44.078+/-0.006 $\chi^2$/NDF:6025064.6/50

All: 43.497+/-0.004 $\chi^2$/NDF: 10497962.2/93




Right In: 0.025+/-0.017 $\chi^2$/NDF: 23.9/19

Left Out: 0.016+/-0.010 $\chi^2$/NDF:41.1/24

Right Out: -0.018+/-0.015 $\chi^2$/NDF: 22.9/25

Left In: 0.006+/-0.010 $\chi^2$/NDF:26.0/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 67.5/47

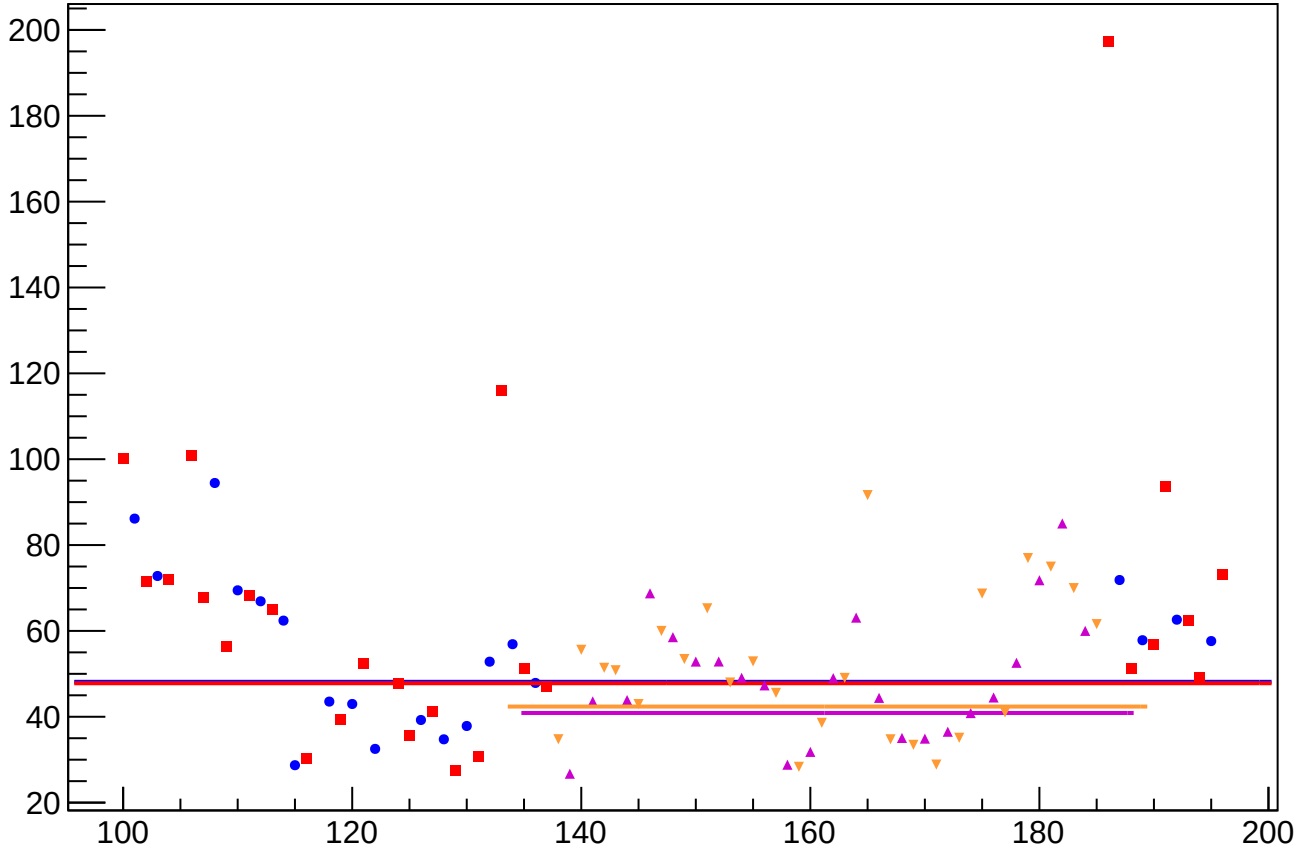
Right: 0.001+/-0.011 $\chi^2$/NDF: 50.5/45

In: 0.011+/-0.009 $\chi^2$/NDF:50.8/42

Out: 0.006+/-0.009 $\chi^2$/NDF:67.6/50

All: 0.008+/-0.006 $\chi^2$/NDF: 118.6/93

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.143+/-0.012 $\chi^2$/NDF: 1499324.0/19

Left Out: 42.375+/-0.007 $\chi^2$/NDF:3190972.5/24

Right Out: 47.804+/-0.011 $\chi^2$/NDF: 2661382.1/25

Left In: 40.881+/-0.007 $\chi^2$/NDF:2678327.2/22

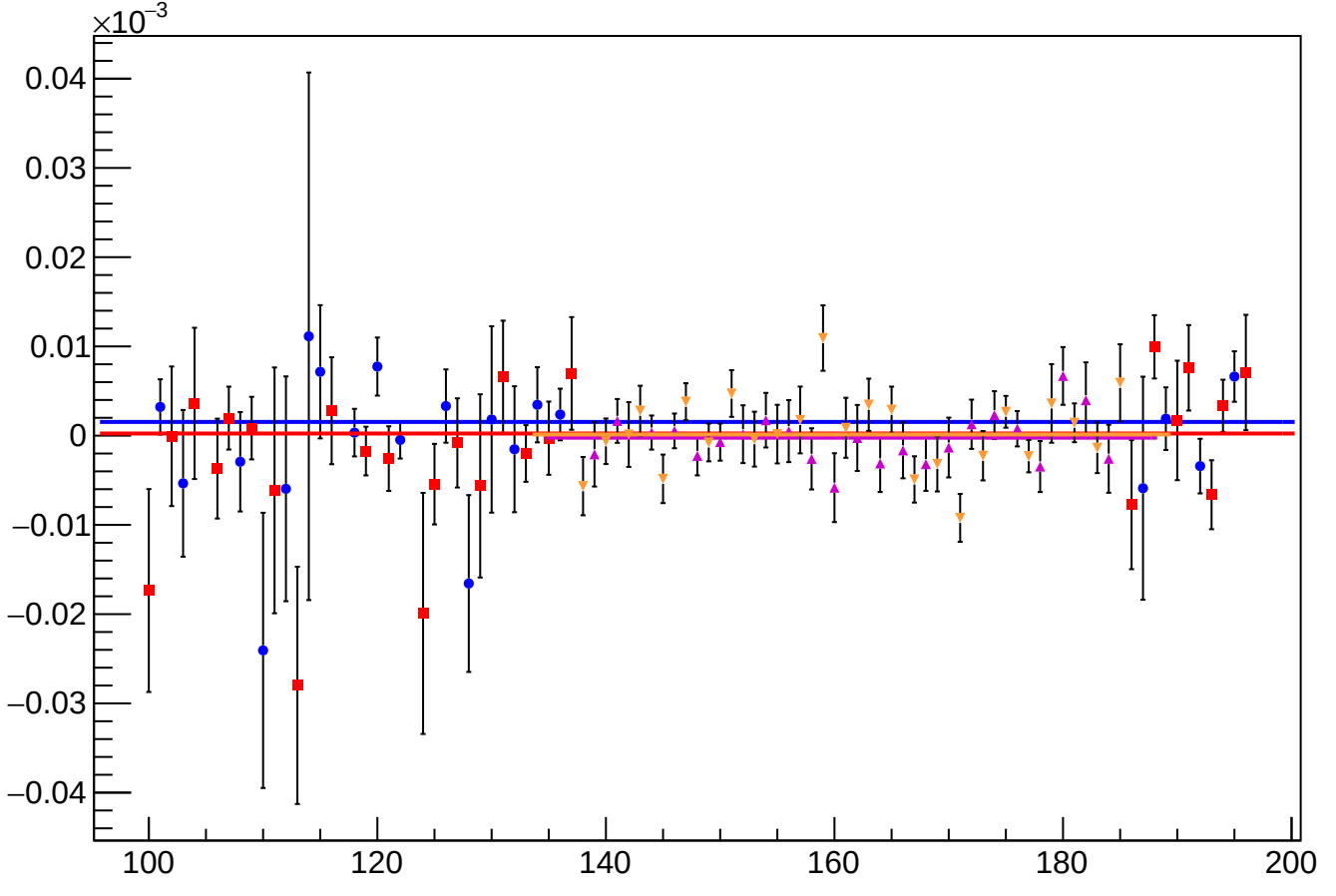
Left: 41.623+/-0.005 $\chi^2$/NDF: 5890281.6/47

Right: 47.960+/-0.008 $\chi^2$/NDF: 4161156.5/45

In: 42.893+/-0.006 $\chi^2$/NDF:4454173.4/42

Out: 44.078+/-0.006 $\chi^2$/NDF:6025064.6/50

All: 43.497+/-0.004 $\chi^2$/NDF: 10497962.2/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 20.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:49.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 32.7/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.8/22

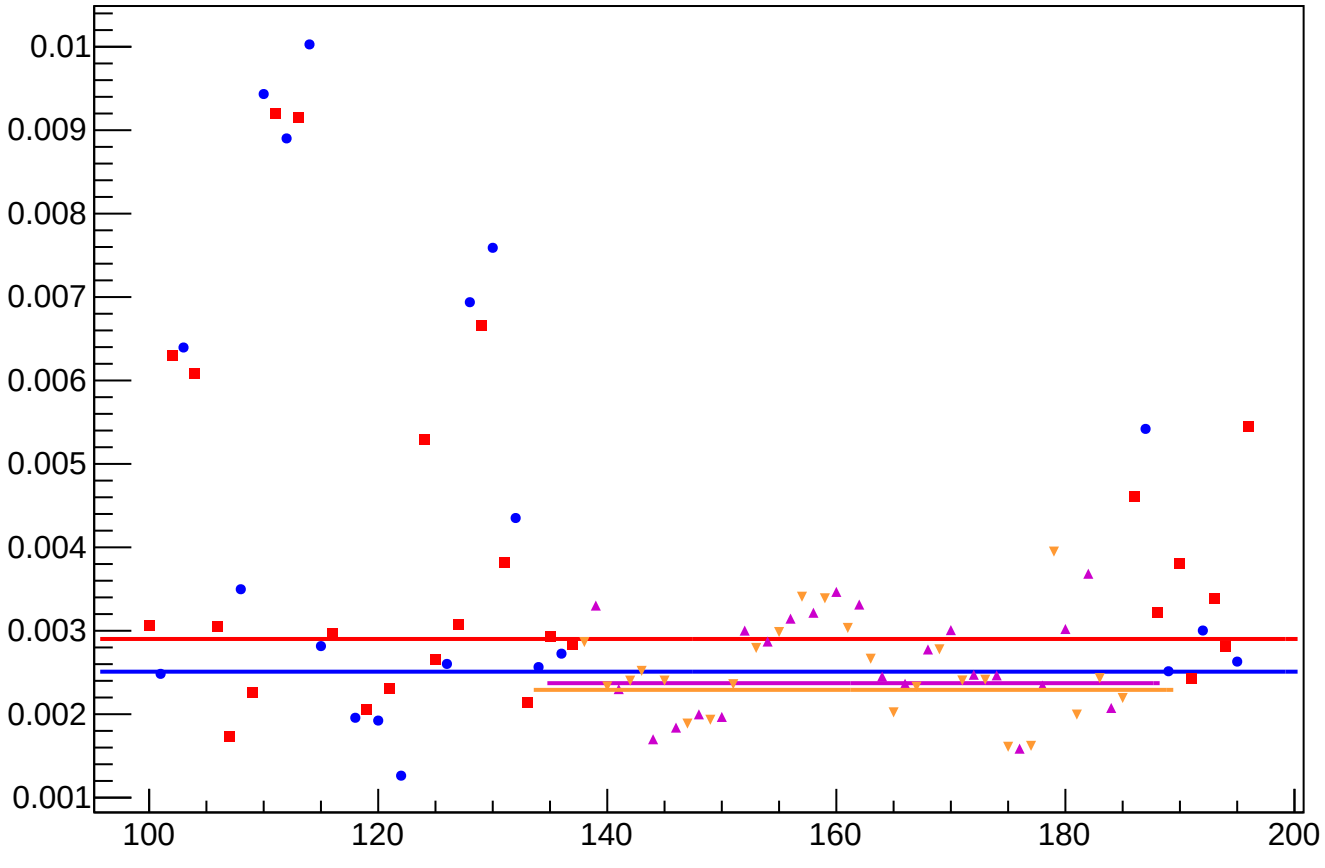
Left: -0.000+/-0.000 $\chi^2$/NDF: 66.0/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 54.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:39.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:82.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 121.7/93




Right In: 0.003+/-0.000 $\chi^2$/NDF: 3612467.2/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:1818891.6/24

Right Out: 0.003+/-0.000 $\chi^2$/NDF: 3081697.9/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:2020314.6/22

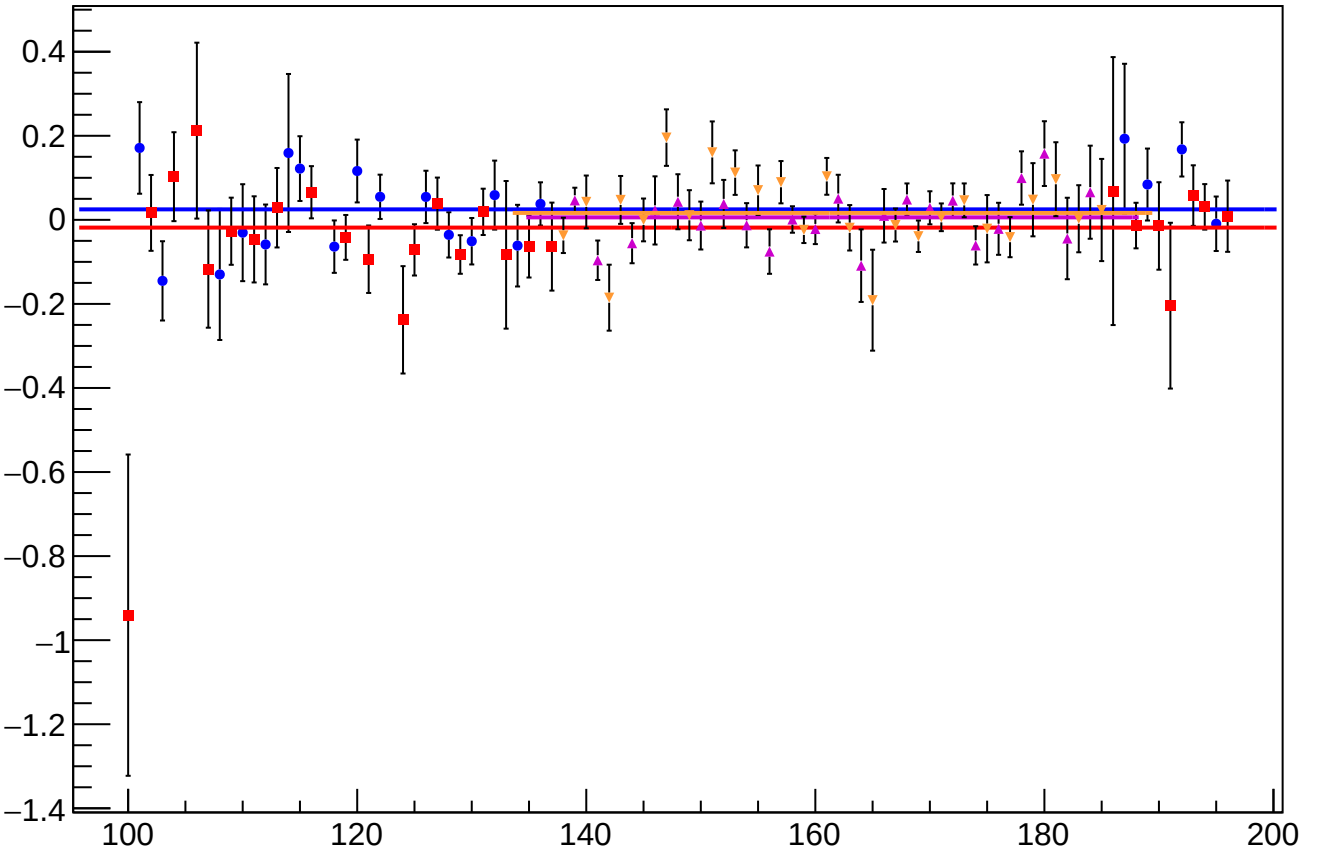
Left: 0.002+/-0.000 $\chi^2$/NDF: 3859926.5/47

Right: 0.003+/-0.000 $\chi^2$/NDF: 6878945.7/45

In: 0.002+/-0.000 $\chi^2$/NDF:5666101.9/42

Out: 0.002+/-0.000 $\chi^2$/NDF:5550546.4/50

All: 0.002+/-0.000 $\chi^2$/NDF: 11221464.5/93




Right In: 0.025+/-0.017 $\chi^2$/NDF: 23.9/19

Left Out: 0.016+/-0.010 $\chi^2$/NDF:41.1/24

Right Out: -0.018+/-0.015 $\chi^2$/NDF: 22.9/25

Left In: 0.006+/-0.010 $\chi^2$/NDF:26.0/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 67.5/47

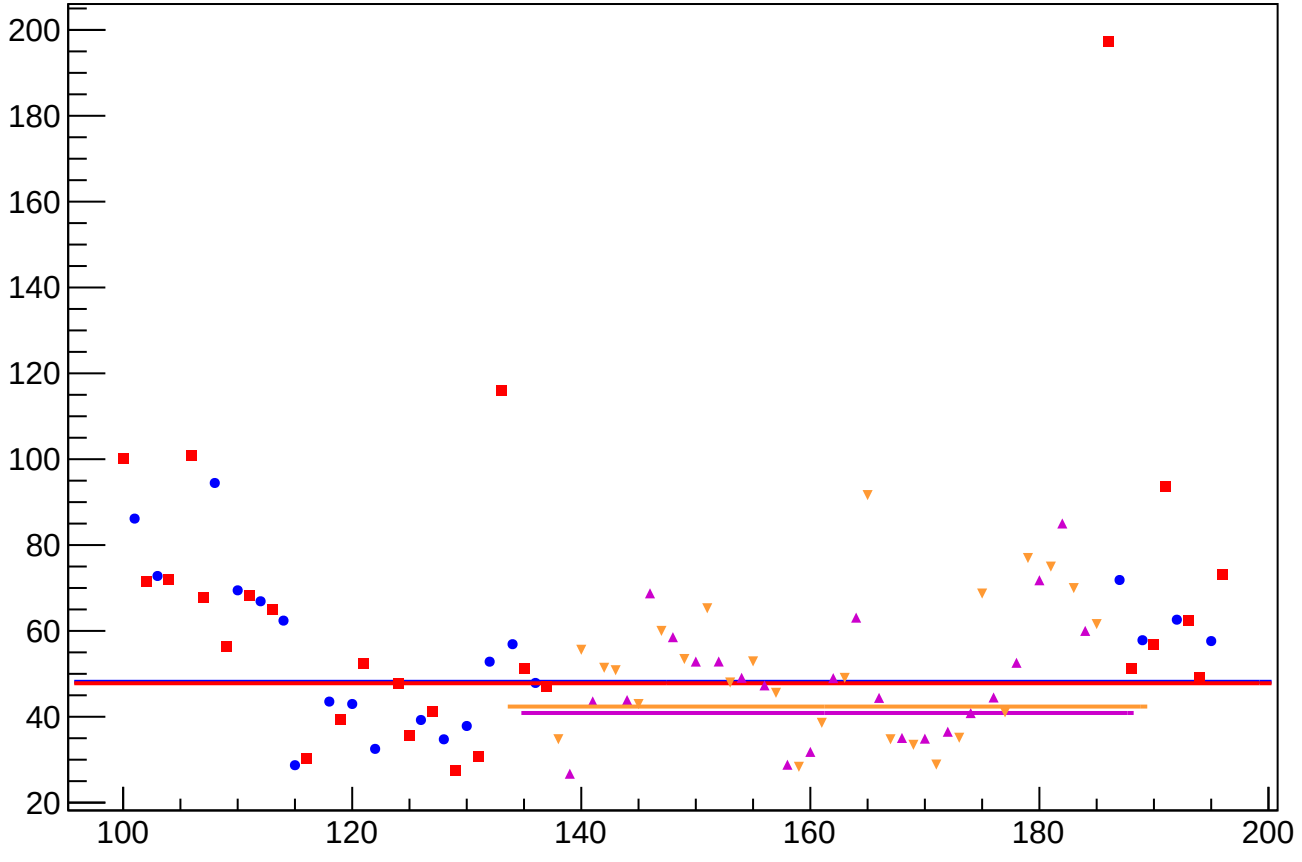
Right: 0.001+/-0.011 $\chi^2$/NDF: 50.5/45

In: 0.011+/-0.009 $\chi^2$/NDF:50.8/42

Out: 0.006+/-0.009 $\chi^2$/NDF:67.6/50

All: 0.008+/-0.006 $\chi^2$/NDF: 118.6/93

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.143+/-0.012 $\chi^2$/NDF: 1499278.4/19

Left Out: 42.375+/-0.007 $\chi^2$/NDF:3190999.9/24

Right Out: 47.805+/-0.011 $\chi^2$/NDF: 2661266.1/25

Left In: 40.881+/-0.007 $\chi^2$/NDF:2678344.3/22

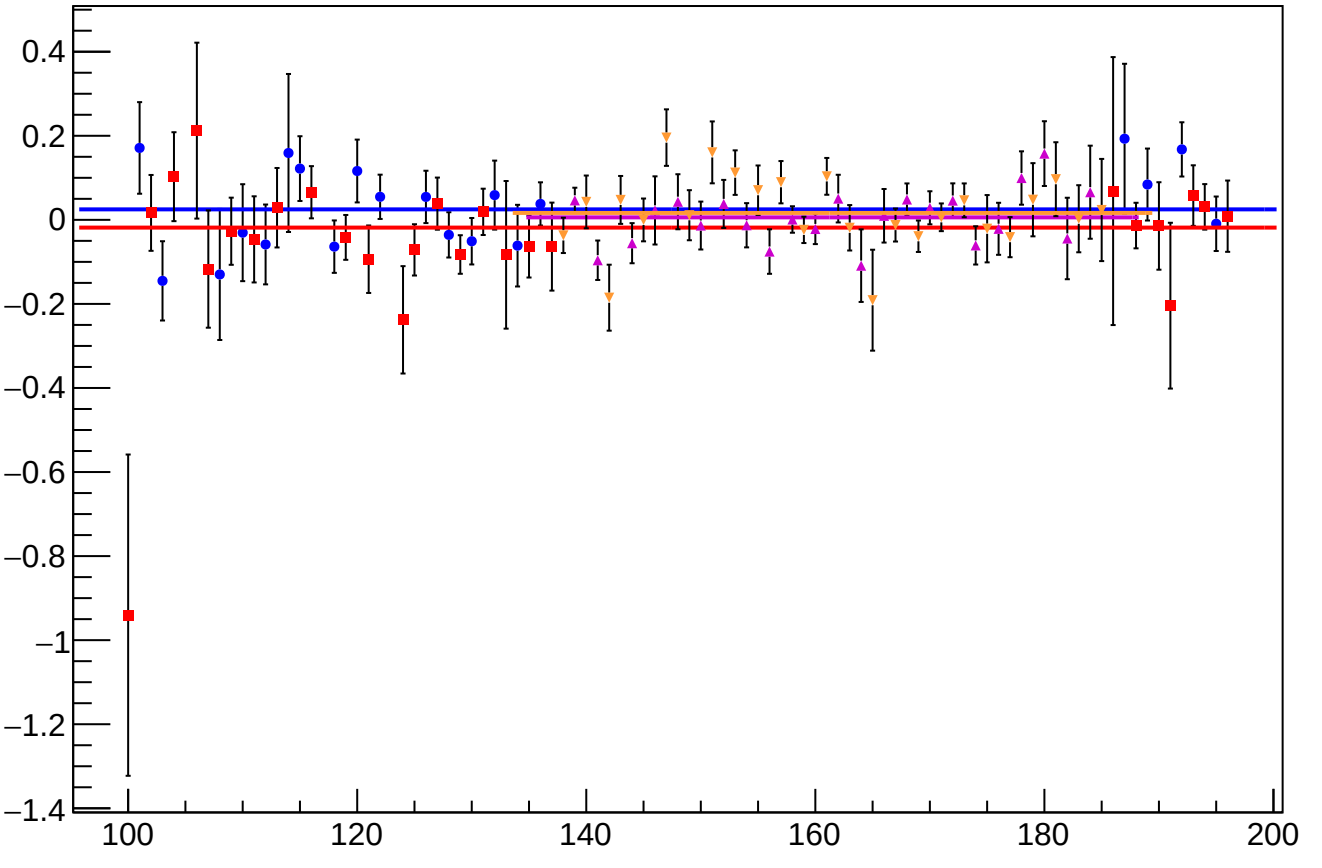
Left: 41.623+/-0.005 $\chi^2$/NDF: 5890324.4/47

Right: 47.960+/-0.008 $\chi^2$/NDF: 4160994.0/45

In: 42.894+/-0.006 $\chi^2$/NDF:4454116.2/42

Out: 44.078+/-0.006 $\chi^2$/NDF:6024973.3/50

All: 43.497+/-0.004 $\chi^2$/NDF: 10497814.4/93




Right In: 0.025+/-0.017 $\chi^2$/NDF: 23.9/19

Left Out: 0.016+/-0.010 $\chi^2$/NDF:41.1/24

Right Out: -0.018+/-0.015 $\chi^2$/NDF: 22.9/25

Left In: 0.006+/-0.010 $\chi^2$/NDF:26.0/22

Left: 0.011+/-0.007 $\chi^2$/NDF: 67.5/47

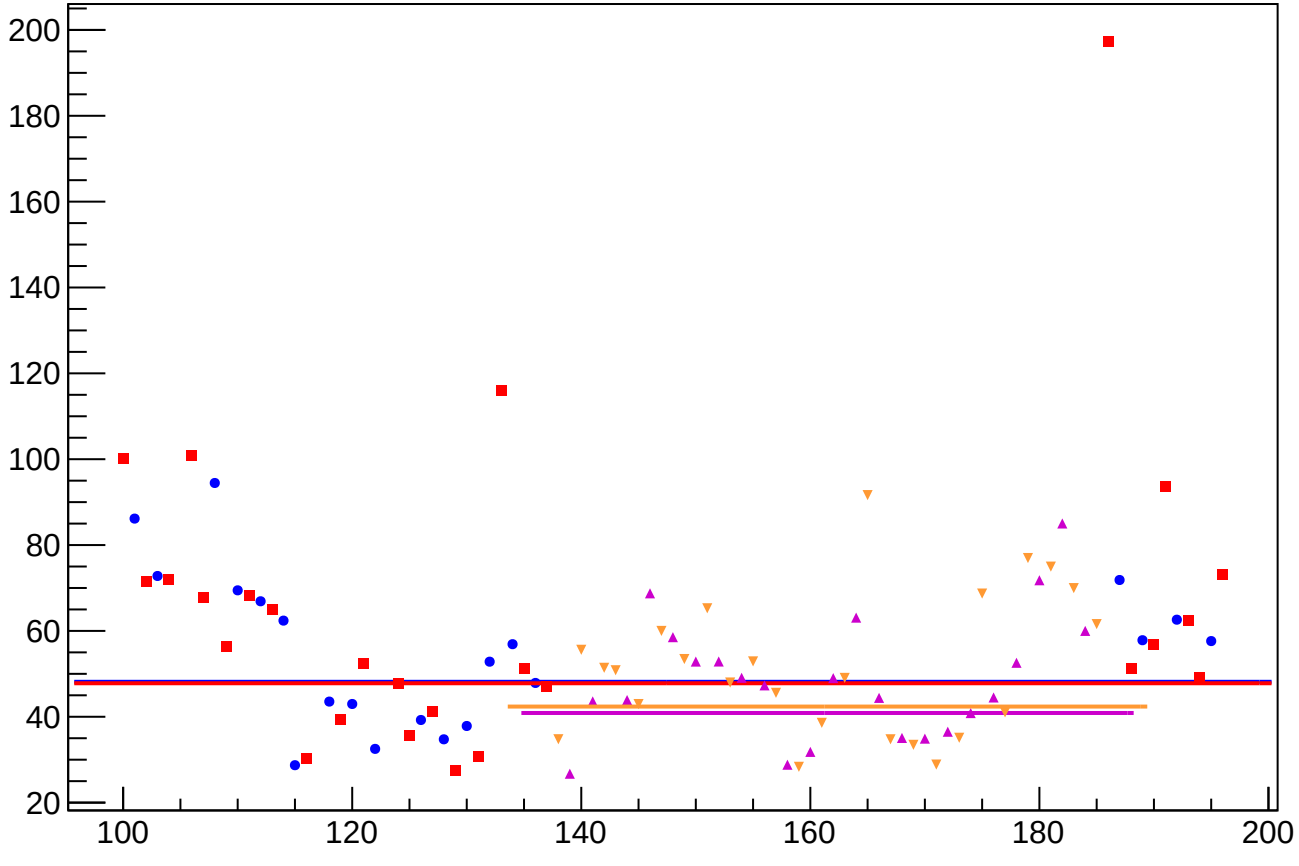
Right: 0.001+/-0.011 $\chi^2$/NDF: 50.5/45

In: 0.011+/-0.009 $\chi^2$/NDF:50.8/42

Out: 0.006+/-0.009 $\chi^2$/NDF:67.6/50

All: 0.008+/-0.006 $\chi^2$/NDF: 118.6/93

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 48.143+/-0.012 $\chi^2$/NDF: 1499278.4/19

Left Out: 42.375+/-0.007 $\chi^2$/NDF:3190999.9/24

Right Out: 47.805+/-0.011 $\chi^2$/NDF: 2661266.1/25

Left In: 40.881+/-0.007 $\chi^2$/NDF:2678344.3/22

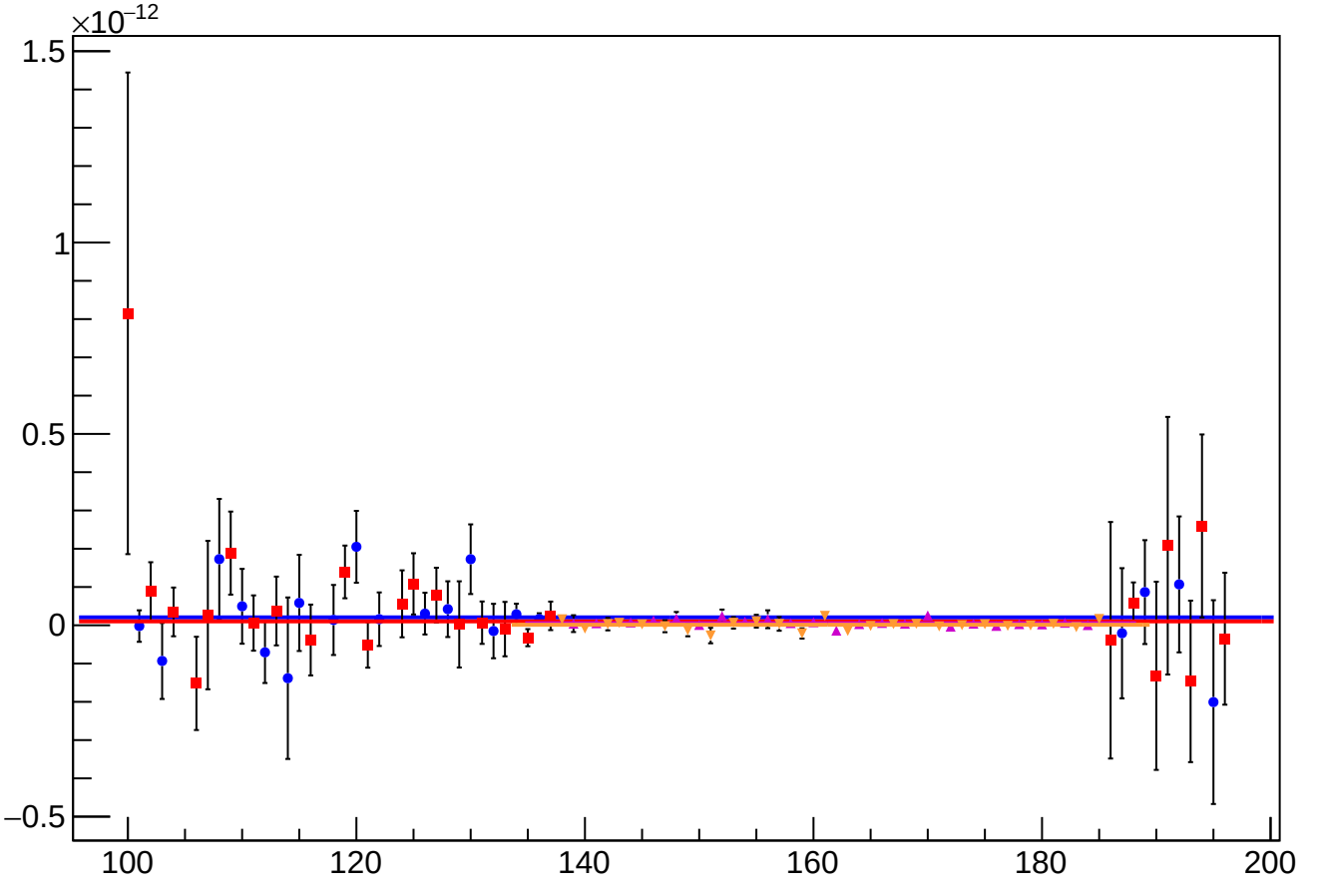
Left: 41.623+/-0.005 $\chi^2$/NDF: 5890324.4/47

Right: 47.960+/-0.008 $\chi^2$/NDF: 4160994.0/45

In: 42.894+/-0.006 $\chi^2$/NDF:4454116.2/42

Out: 44.078+/-0.006 $\chi^2$/NDF:6024973.3/50

All: 43.497+/-0.004 $\chi^2$/NDF: 10497814.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 13.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:19.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.9/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:13.2/22

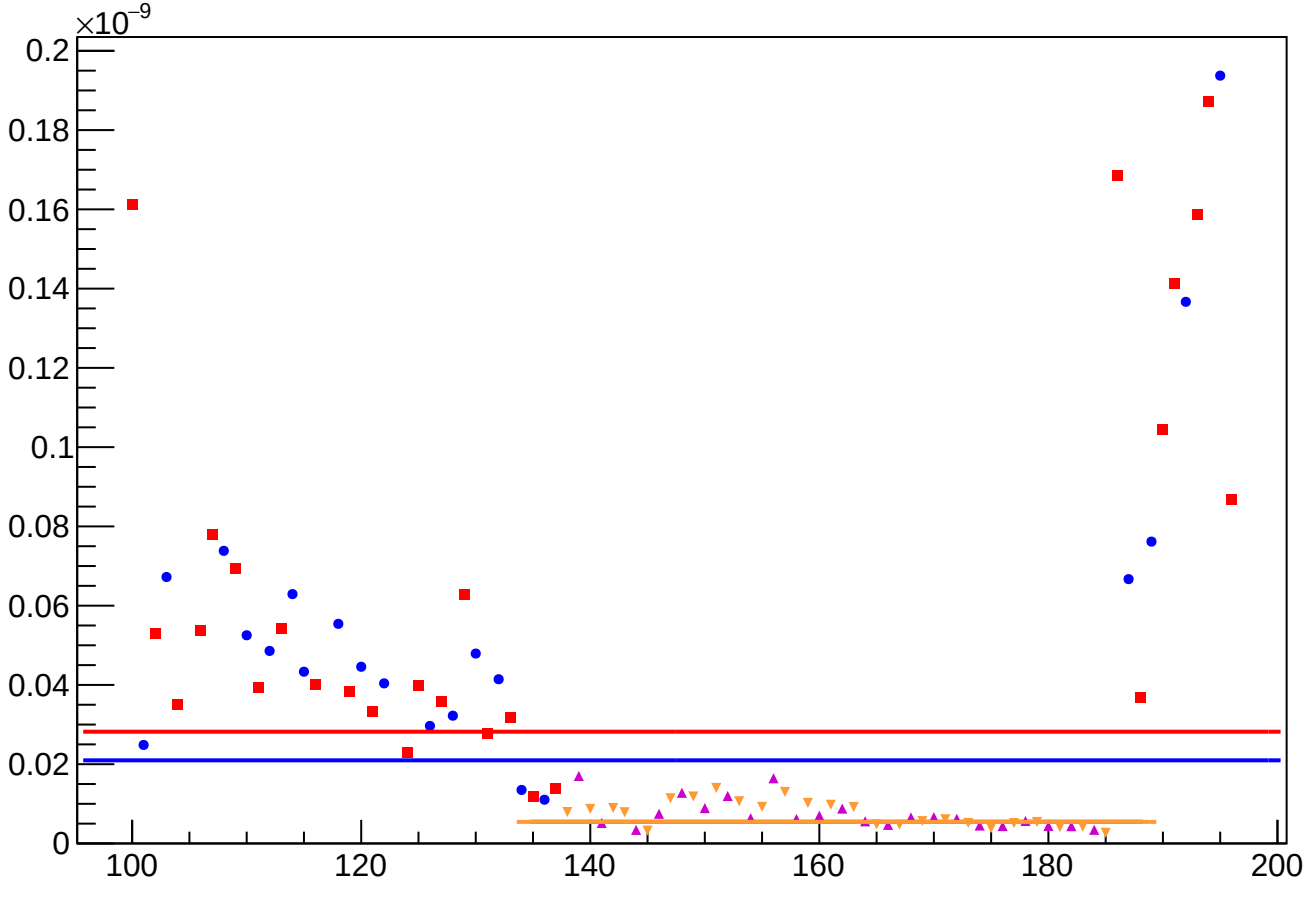
Left: 0.000+/-0.000 $\chi^2$/NDF: 35.1/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 35.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:28.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:42.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 72.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 5435904.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:3789045.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5542898.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2801443.3/22

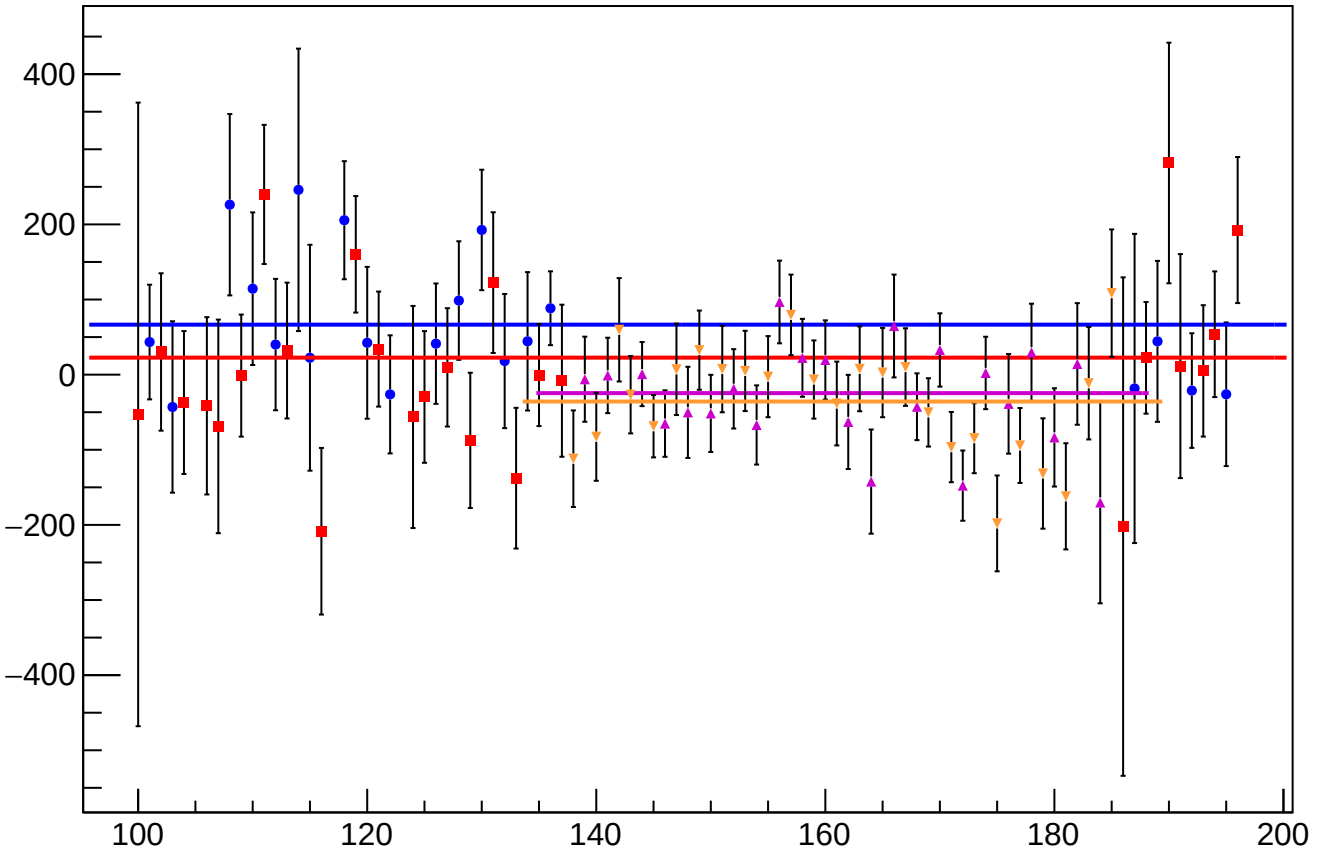
Left: 0.000+/-0.000 $\chi^2$/NDF: 6590870.1/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 11330967.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:12045059.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:15198815.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 27244410.2/93




Right In: 66.546+/-19.762 $\chi^2$/NDF: 14.4/19

Left Out: -35.787+/-11.119 $\chi^2$/NDF:33.7/24

Right Out: 22.640+/-18.920 $\chi^2$/NDF: 27.0/25

Left In: -24.572+/-11.471 $\chi^2$/NDF:25.7/22

Left: -30.354+/-7.984 $\chi^2$/NDF: 59.9/47

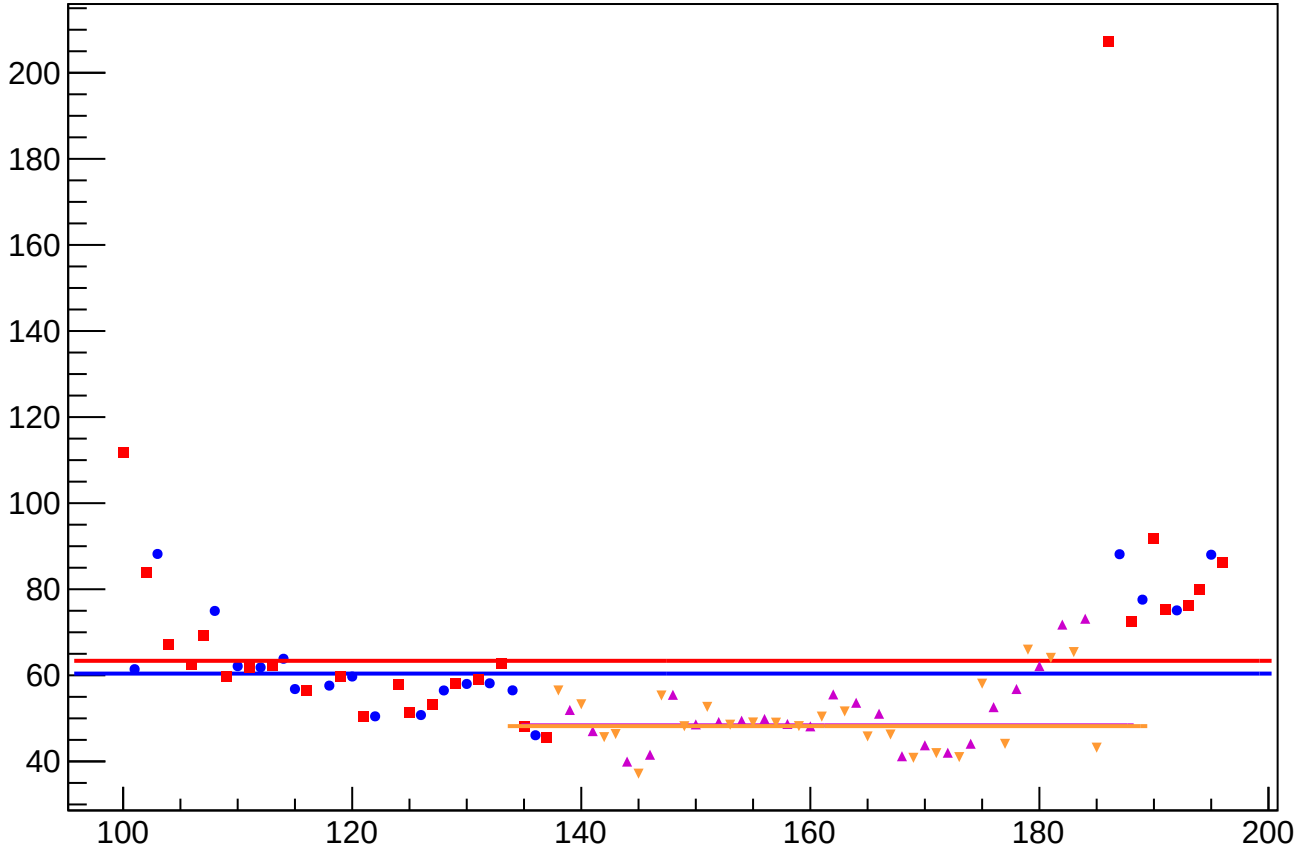
Right: 43.637+/-13.666 $\chi^2$/NDF: 44.0/45

In: -1.609+/-9.921 $\chi^2$/NDF:56.1/42

Out: -20.787+/-9.586 $\chi^2$/NDF:67.8/50

All: -11.527+/-6.894 $\chi^2$/NDF: 125.8/93

# reg_asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 60.404+/-0.014 $\chi^2$/NDF: 725147.4/19

Left Out: 48.198+/-0.008 $\chi^2$/NDF:780285.2/24

Right Out: 63.372+/-0.013 $\chi^2$/NDF: 1146016.1/25

Left In: 48.381+/-0.008 $\chi^2$/NDF:695381.8/22

Left: 48.287+/-0.006 $\chi^2$/NDF: 1475927.4/47

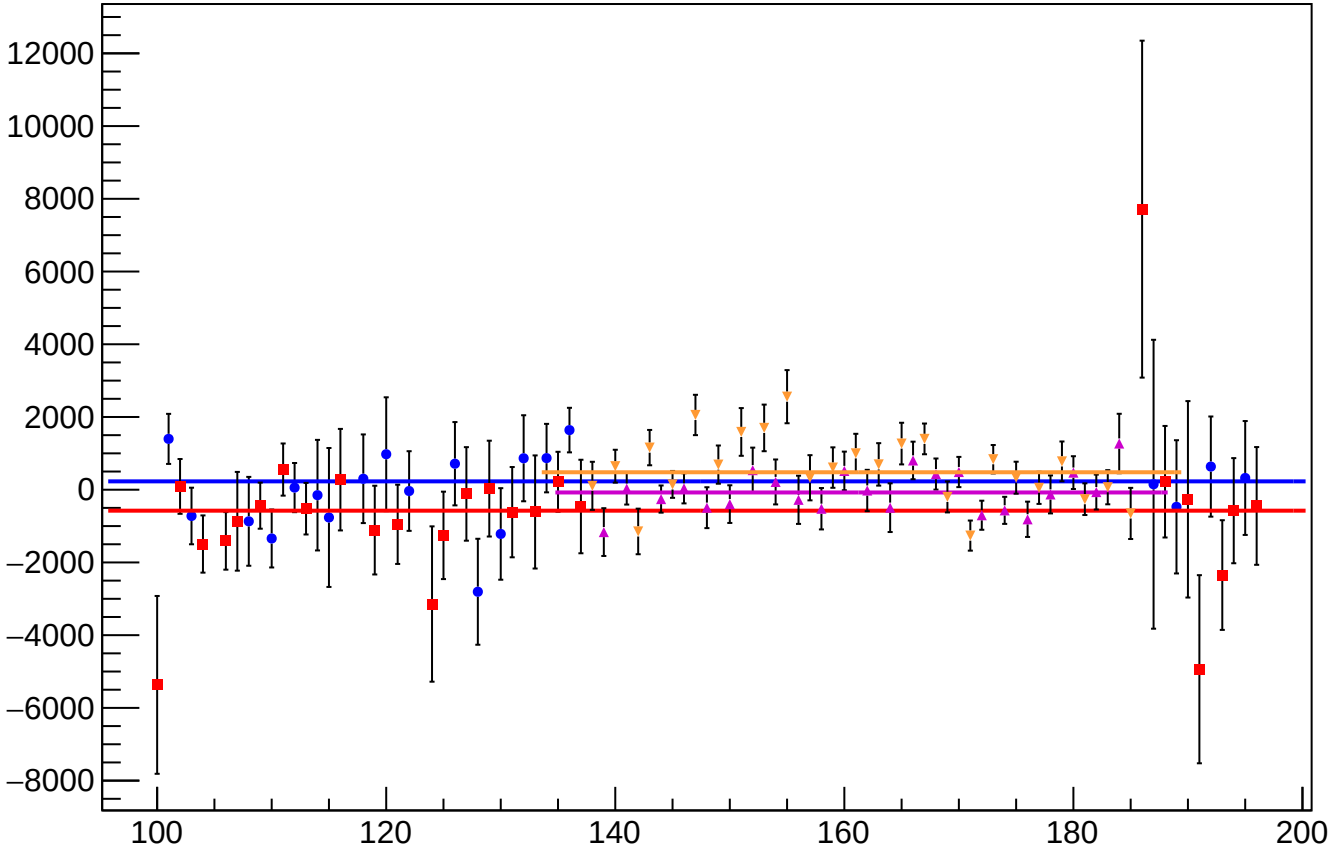
Right: 61.953+/-0.010 $\chi^2$/NDF: 1894693.1/45

In: 51.411+/-0.007 $\chi^2$/NDF:1974291.4/42

Out: 52.094+/-0.007 $\chi^2$/NDF:2882435.5/50

All: 51.764+/-0.005 $\chi^2$/NDF: 4861631.1/93

asym_sam_15_48_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 229.745+/-232.611 $\chi^2$/NDF: 21.9/19

Left Out: 480.215+/-100.526 $\chi^2$/NDF:69.2/24

Right Out: -576.410+/-216.053 $\chi^2$/NDF: 21.1/25

Left In: -75.662+/-103.128 $\chi^2$/NDF:24.5/22

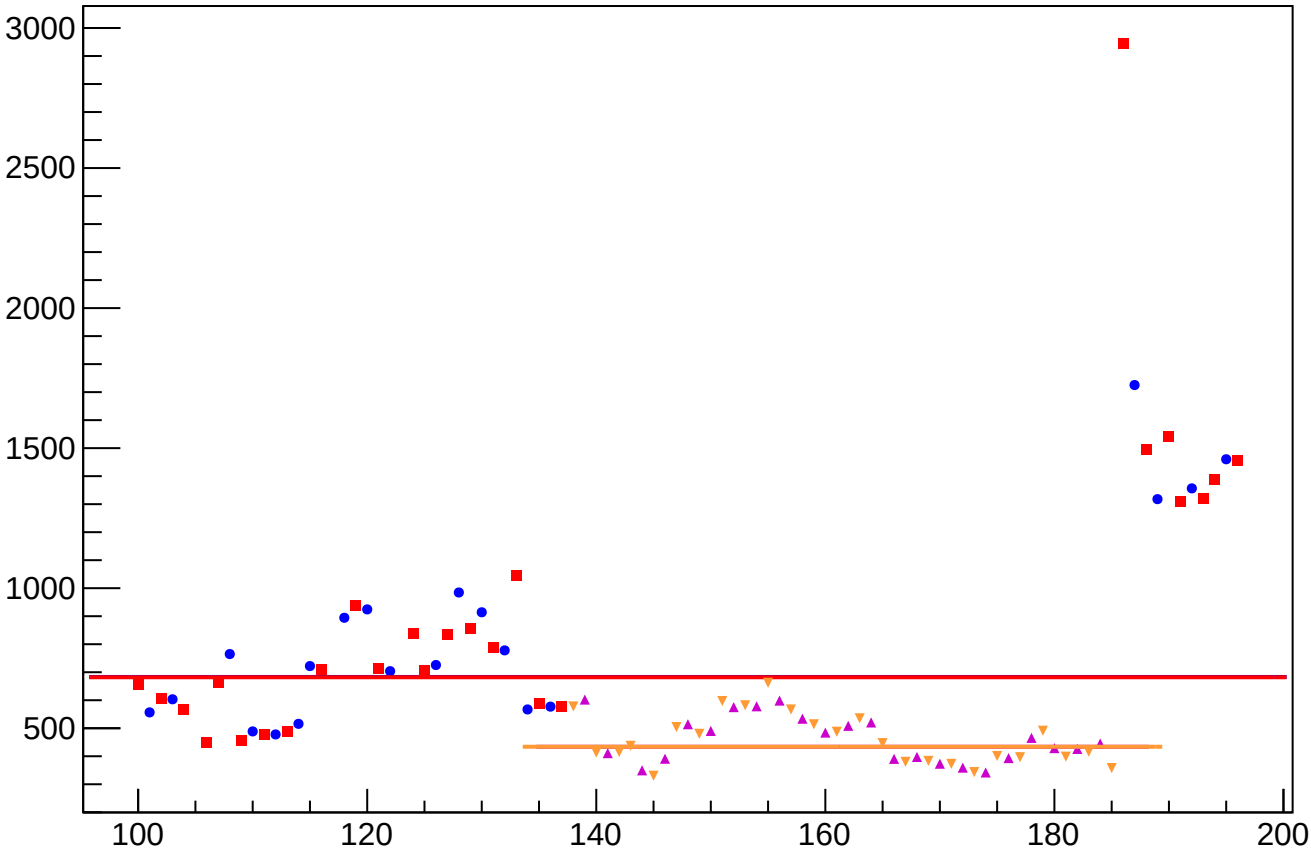
Left: 209.379+/-71.985 $\chi^2$/NDF: 108.6/47

Right: -203.044+/-158.303 $\chi^2$/NDF: 49.4/45

In: -25.493+/-94.278 $\chi^2$/NDF:47.8/42

Out: 292.177+/-91.143 $\chi^2$/NDF:110.0/50

All: 138.712+/-65.528 $\chi^2$/NDF: 163.6/93




Right In: 683.048+/-0.164 $\chi^2$/NDF: 2141406.9/19

Left Out: 433.945+/-0.071 $\chi^2$/NDF:1243704.6/24

Right Out: 681.989+/-0.153 $\chi^2$/NDF: 3782514.3/25

Left In: 433.722+/-0.073 $\chi^2$/NDF:1094788.8/22

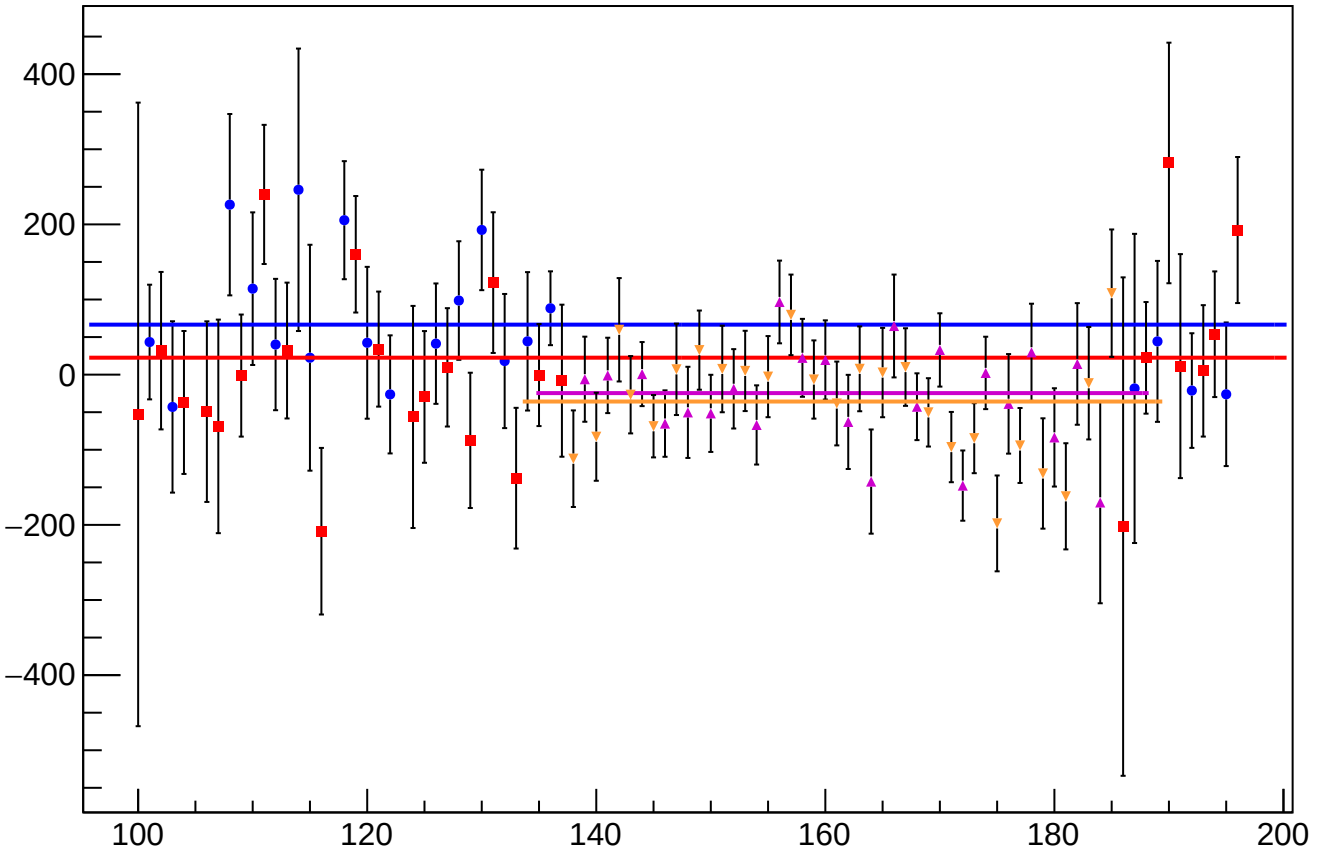
Left: 433.836+/-0.051 $\chi^2$/NDF: 2338498.1/47

Right: 682.479+/-0.112 $\chi^2$/NDF: 5923943.4/45

In: 474.679+/-0.067 $\chi^2$/NDF:5156502.1/42

Out: 478.087+/-0.064 $\chi^2$/NDF:7193222.0/50

All: 476.441+/-0.046 $\chi^2$/NDF: 12351075.5/93




Right In: 66.549+/-19.762 $\chi^2$/NDF: 14.4/19

Left Out: -35.792+/-11.119 $\chi^2$/NDF:33.7/24

Right Out: 22.567+/-18.929 $\chi^2$/NDF: 27.1/25

Left In: -24.573+/-11.471 $\chi^2$/NDF:25.7/22

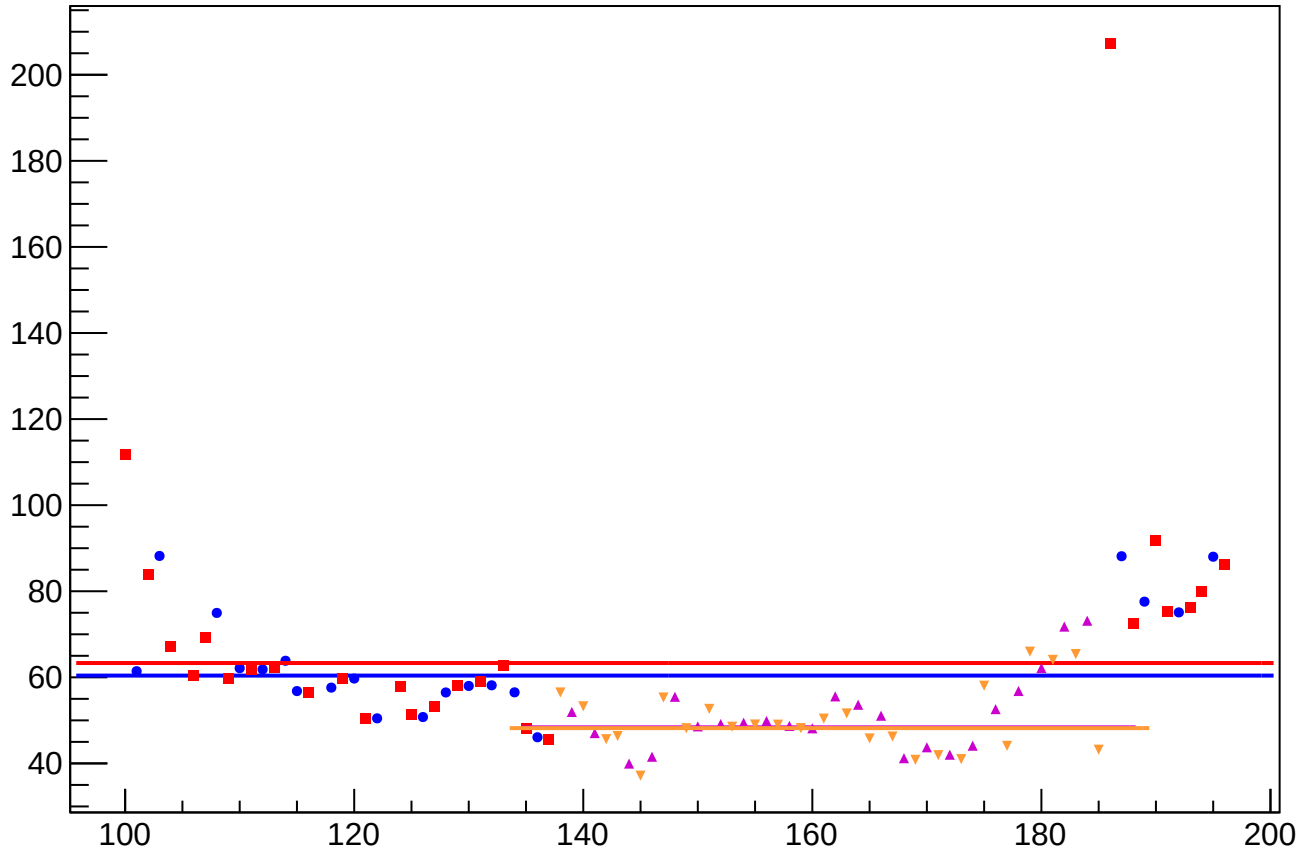
Left: -30.357+/-7.984 $\chi^2$/NDF: 59.9/47

Right: 43.611+/-13.670 $\chi^2$/NDF: 44.1/45

In: -1.609+/-9.921 $\chi^2$/NDF:56.1/42

Out: -20.820+/-9.588 $\chi^2$/NDF:67.8/50

All: -11.543+/-6.894 $\chi^2$/NDF: 125.8/93




Right In: 60.404+/-0.014 $\chi^2$/NDF: 725150.9/19

Left Out: 48.198+/-0.008 $\chi^2$/NDF:780285.2/24

Right Out: 63.323+/-0.013 $\chi^2$/NDF: 1147294.8/25

Left In: 48.381+/-0.008 $\chi^2$/NDF:695381.8/22

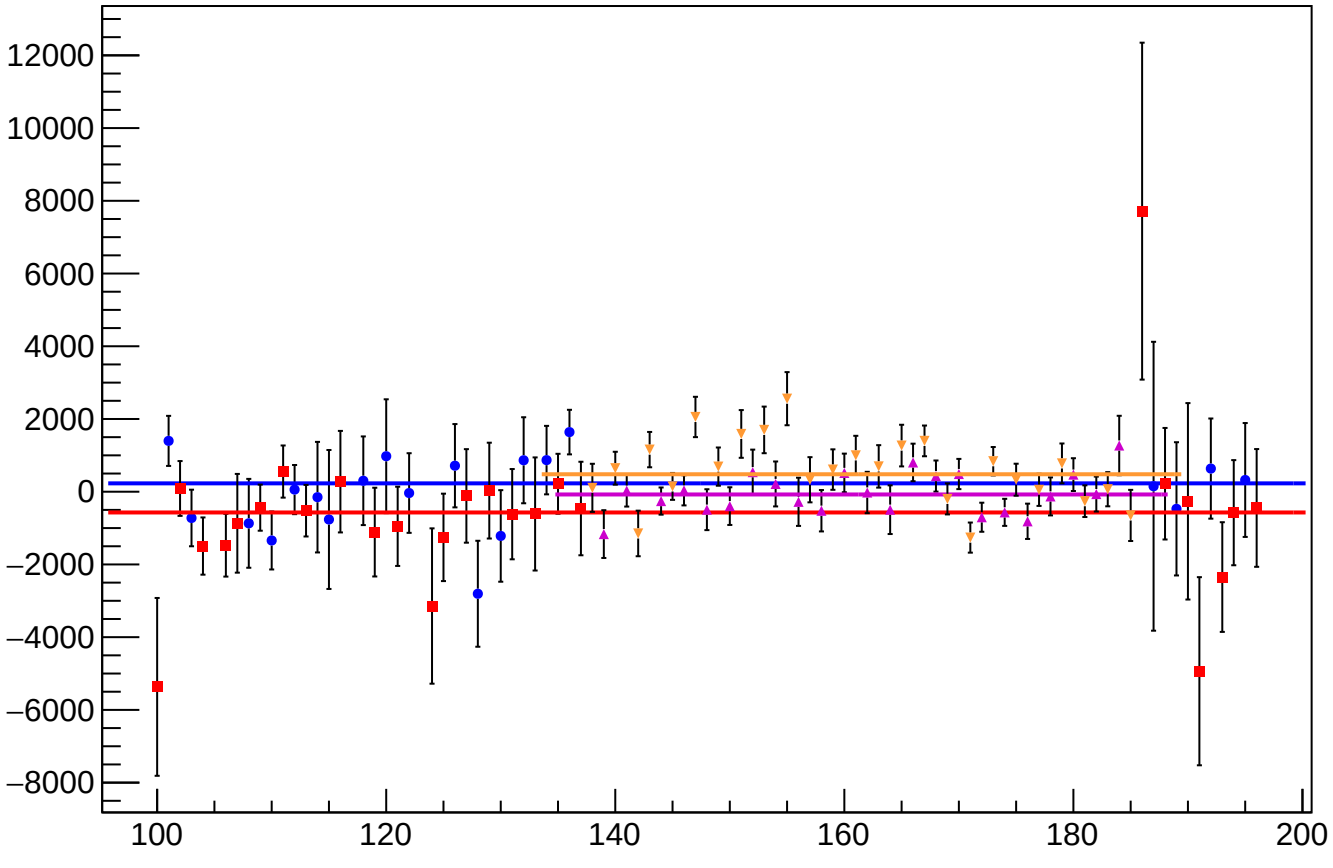
Left: 48.287+/-0.006 $\chi^2$/NDF: 1475927.4/47

Right: 61.926+/-0.010 $\chi^2$/NDF: 1895191.8/45

In: 51.411+/-0.007 $\chi^2$/NDF:1974295.4/42

Out: 52.078+/-0.007 $\chi^2$/NDF:2876849.9/50

All: 51.756+/-0.005 $\chi^2$/NDF: 4855830.3/93




Right In: 229.780+/-232.612 $\chi^2$/NDF: 21.9/19

Left Out: 480.210+/-100.526 $\chi^2$/NDF:69.2/24

Right Out: -570.785+/-217.351 $\chi^2$/NDF: 21.1/25

Left In: -75.665+/-103.128 $\chi^2$/NDF:24.5/22

Left: 209.376+/-71.985 $\chi^2$/NDF: 108.6/47

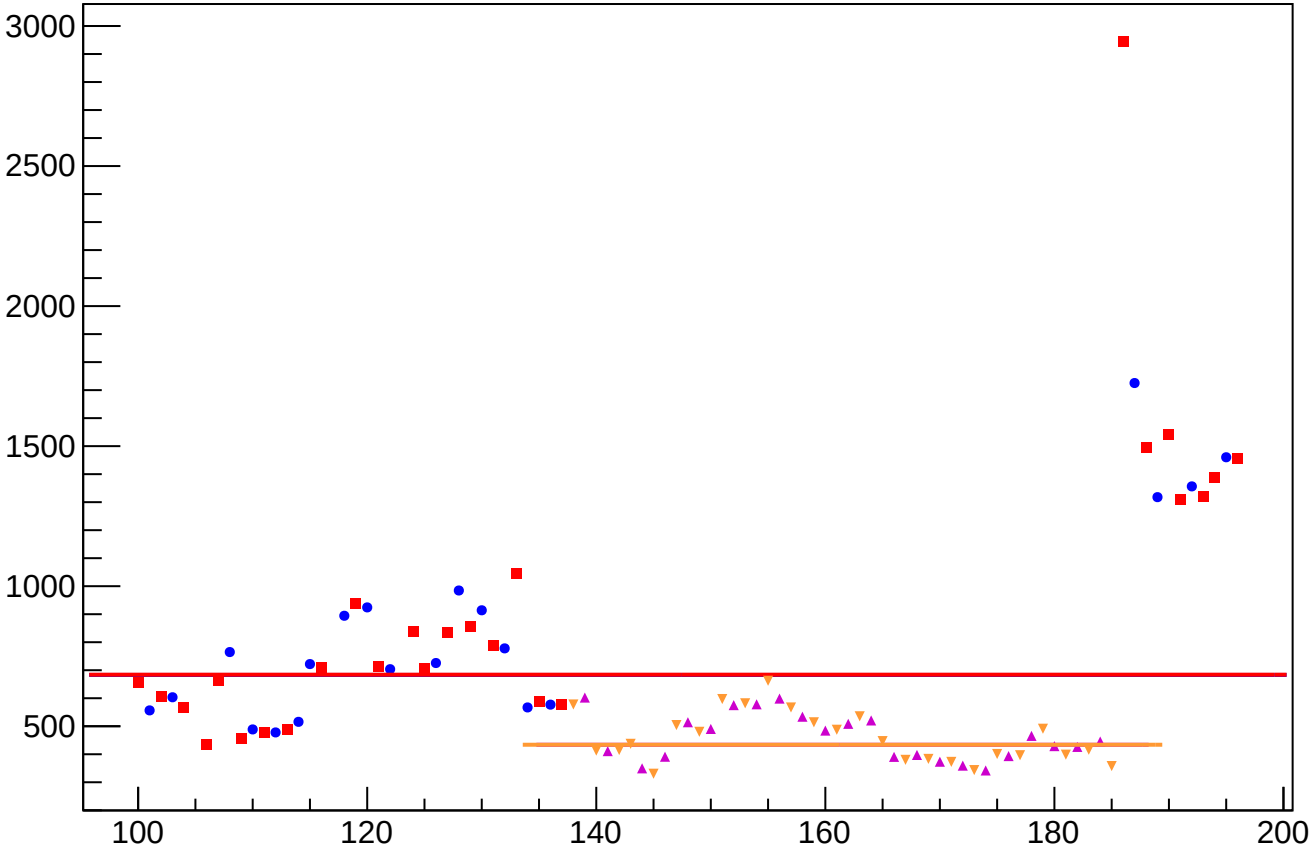
Right: -197.625+/-158.812 $\chi^2$/NDF: 49.3/45

In: -25.490+/-94.278 $\chi^2$/NDF:47.8/42

Out: 295.008+/-91.240 $\chi^2$/NDF:109.6/50

All: 140.007+/-65.564 $\chi^2$/NDF: 163.3/93

asym_sam_15_48_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 683.053+/-0.164 $\chi^2$/NDF: 2141379.6/19

Left Out: 433.945+/-0.071 $\chi^2$/NDF:1243702.1/24

Right Out: 683.988+/-0.154 $\chi^2$/NDF: 3771427.1/25

Left In: 433.722+/-0.073 $\chi^2$/NDF:1094788.4/22

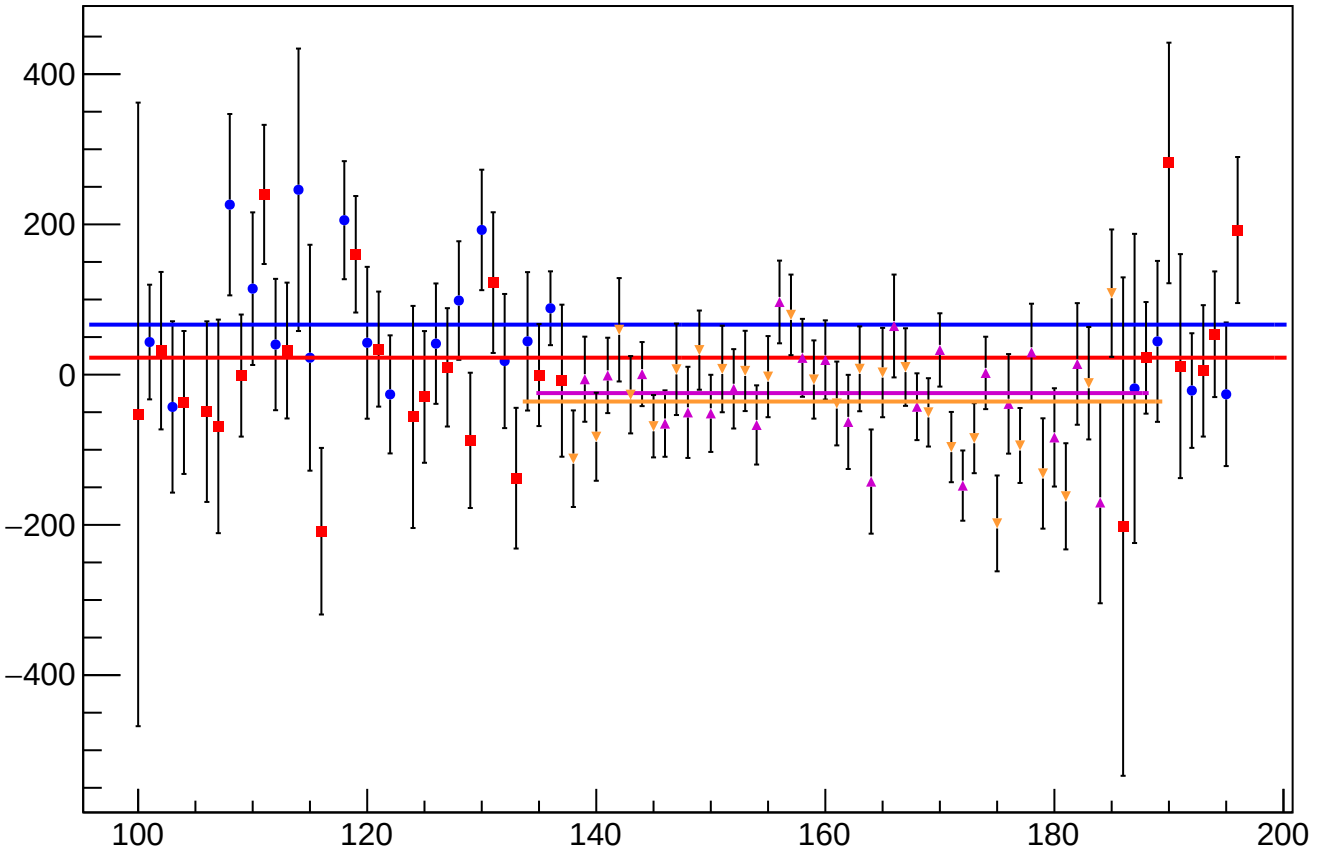
Left: 433.836+/-0.051 $\chi^2$/NDF: 2338495.3/47

Right: 683.552+/-0.112 $\chi^2$/NDF: 5912823.9/45

In: 474.679+/-0.067 $\chi^2$/NDF:5156529.8/42

Out: 478.007+/-0.065 $\chi^2$/NDF:7195596.8/50

All: 476.397+/-0.046 $\chi^2$/NDF: 12353413.0/93




Right In: 66.549+/-19.762 $\chi^2$/NDF: 14.4/19

Left Out: -35.792+/-11.119 $\chi^2$/NDF:33.7/24

Right Out: 22.567+/-18.929 $\chi^2$/NDF: 27.1/25

Left In: -24.573+/-11.471 $\chi^2$/NDF:25.7/22

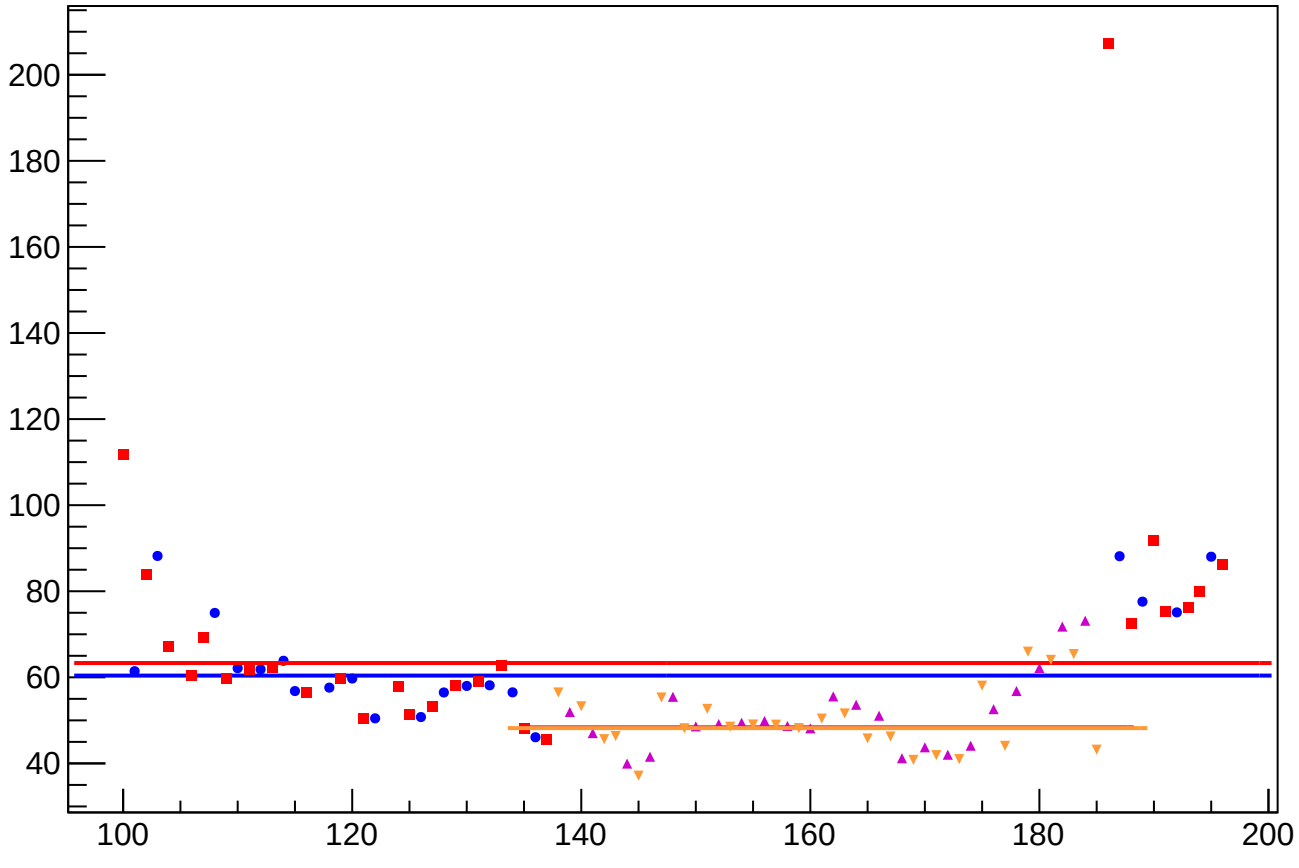
Left: -30.357+/-7.984 $\chi^2$/NDF: 59.9/47

Right: 43.611+/-13.670 $\chi^2$/NDF: 44.1/45

In: -1.609+/-9.921 $\chi^2$/NDF:56.1/42

Out: -20.820+/-9.588 $\chi^2$/NDF:67.8/50

All: -11.543+/-6.894 $\chi^2$/NDF: 125.8/93




Right In: 60.404+/-0.014 $\chi^2$/NDF: 725150.9/19

Left Out: 48.198+/-0.008 $\chi^2$/NDF:780285.2/24

Right Out: 63.323+/-0.013 $\chi^2$/NDF: 1147294.8/25

Left In: 48.381+/-0.008 $\chi^2$/NDF:695381.8/22

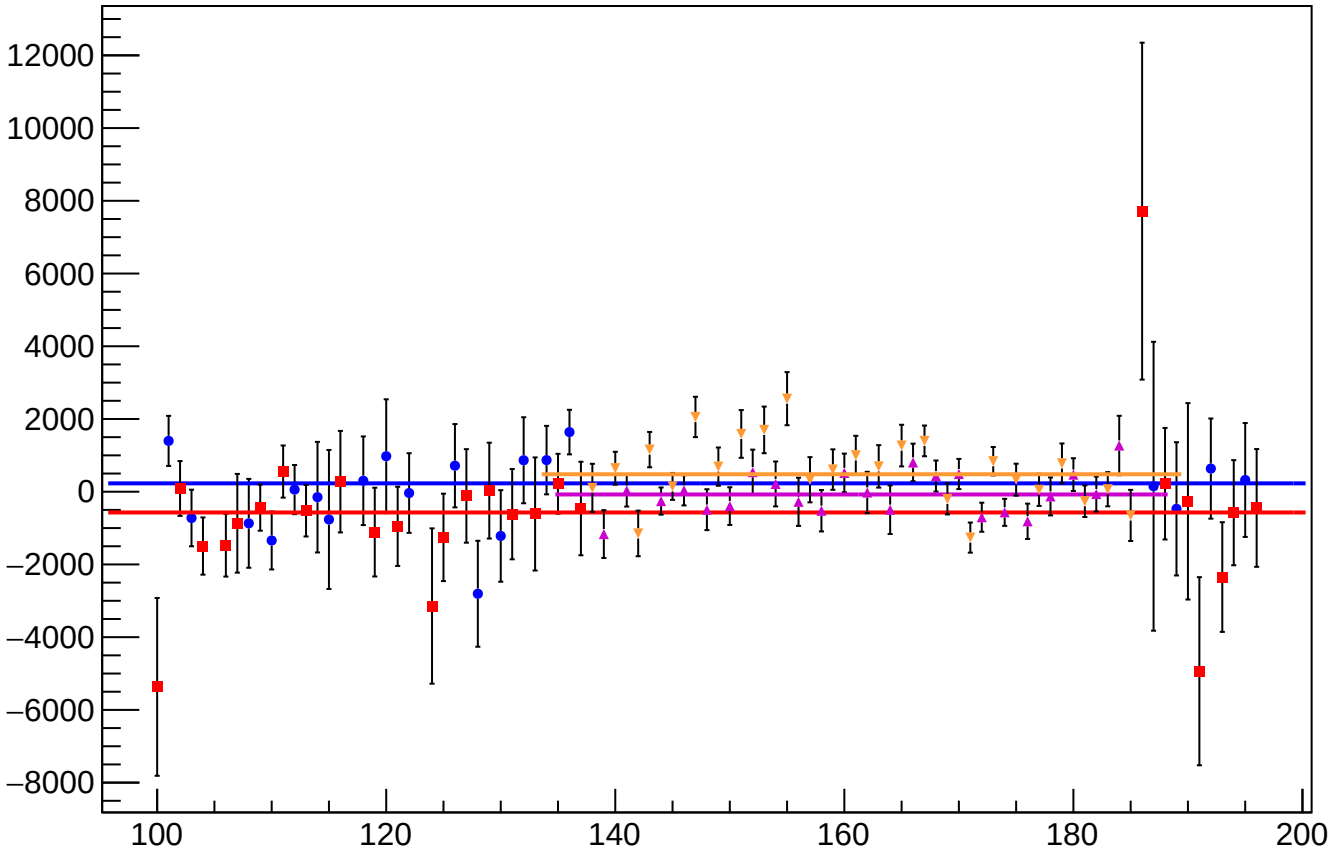
Left: 48.287+/-0.006 $\chi^2$/NDF: 1475927.4/47

Right: 61.926+/-0.010 $\chi^2$/NDF: 1895191.8/45

In: 51.411+/-0.007 $\chi^2$/NDF:1974295.4/42

Out: 52.078+/-0.007 $\chi^2$/NDF:2876849.9/50

All: 51.756+/-0.005 $\chi^2$/NDF: 4855830.3/93




Right In: 229.780+/-232.612 $\chi^2$/NDF: 21.9/19

Left Out: 480.210+/-100.526 $\chi^2$/NDF:69.2/24

Right Out: -570.785+/-217.351 $\chi^2$/NDF: 21.1/25

Left In: -75.665+/-103.128 $\chi^2$/NDF:24.5/22

Left: 209.376+/-71.985 $\chi^2$/NDF: 108.6/47

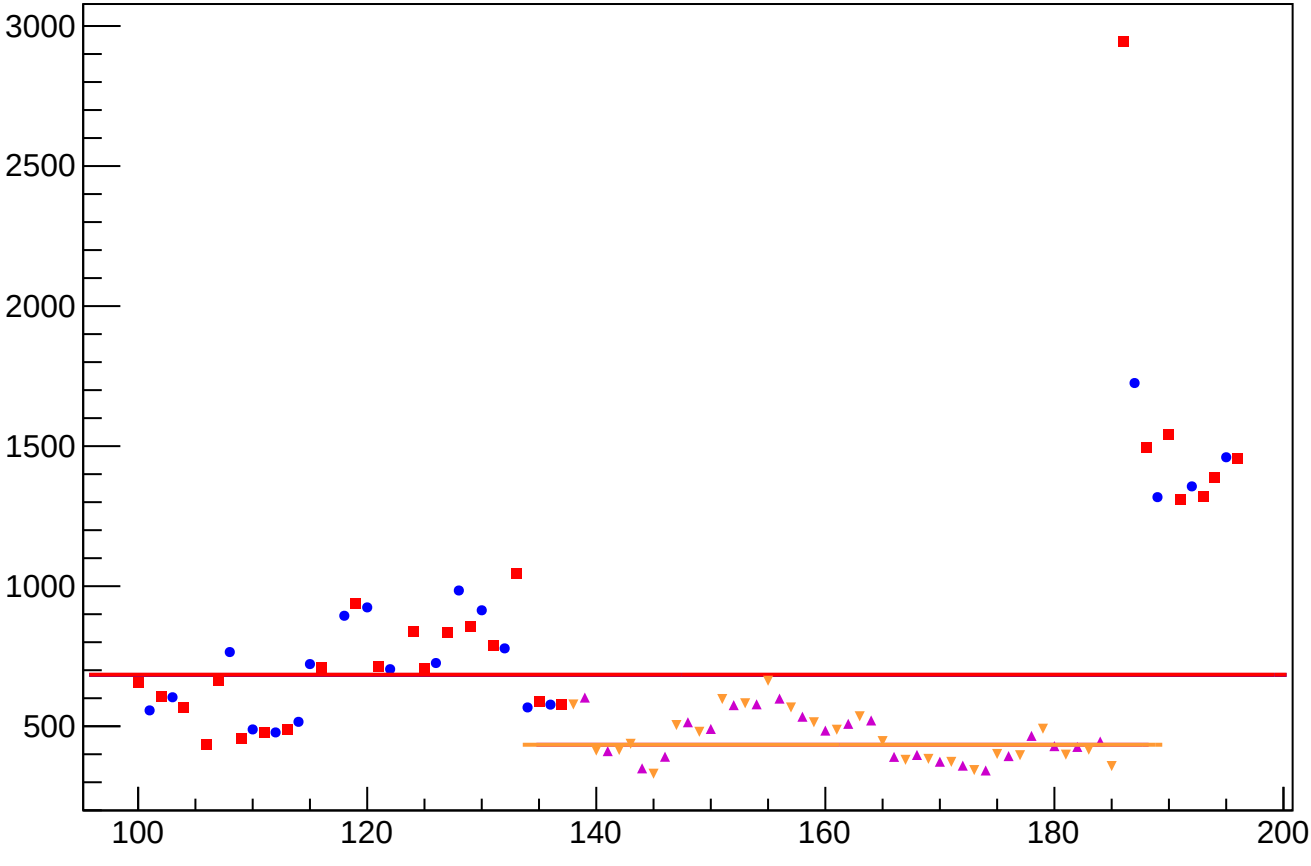
Right: -197.625+/-158.812 $\chi^2$/NDF: 49.3/45

In: -25.490+/-94.278 $\chi^2$/NDF:47.8/42

Out: 295.008+/-91.240 $\chi^2$/NDF:109.6/50

All: 140.007+/-65.564 $\chi^2$/NDF: 163.3/93

asym_sam_15_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 683.053+/-0.164 $\chi^2$/NDF: 2141379.6/19

Left Out: 433.945+/-0.071 $\chi^2$/NDF:1243702.1/24

Right Out: 683.988+/-0.154 $\chi^2$/NDF: 3771427.1/25

Left In: 433.722+/-0.073 $\chi^2$/NDF:1094788.4/22

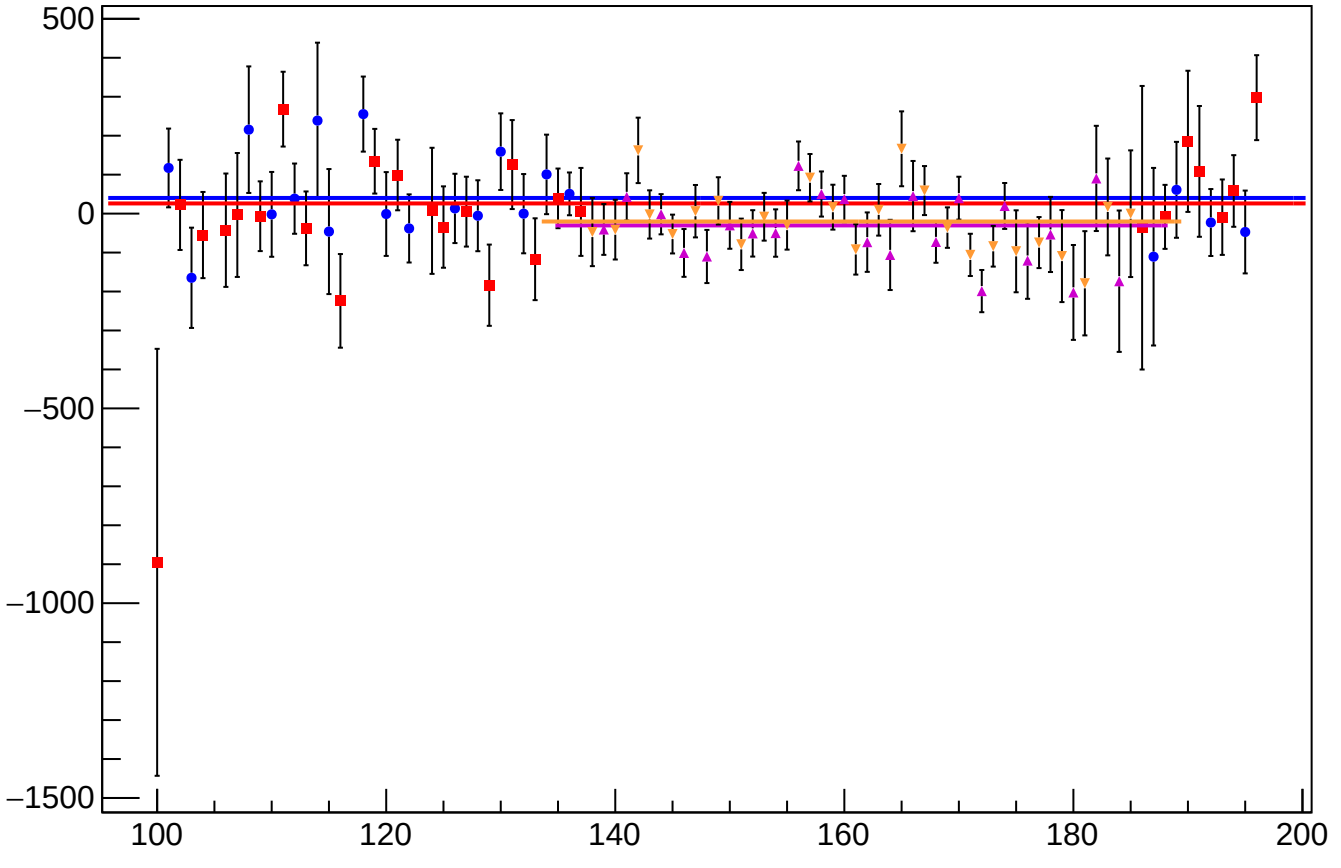
Left: 433.836+/-0.051 $\chi^2$/NDF: 2338495.3/47

Right: 683.552+/-0.112 $\chi^2$/NDF: 5912823.9/45

In: 474.679+/-0.067 $\chi^2$/NDF:5156529.8/42

Out: 478.007+/-0.065 $\chi^2$/NDF:7195596.8/50

All: 476.397+/-0.046 $\chi^2$/NDF: 12353413.0/93




Right In: 40.182+/-22.495 $\chi^2$/NDF: 15.7/19

Left Out: -20.270+/-13.636 $\chi^2$/NDF:25.1/24

Right Out: 26.089+/-21.219 $\chi^2$/NDF: 32.1/25

Left In: -30.318+/-13.979 $\chi^2$/NDF:32.6/22

Left: -25.169+/-9.761 $\chi^2$/NDF: 58.0/47

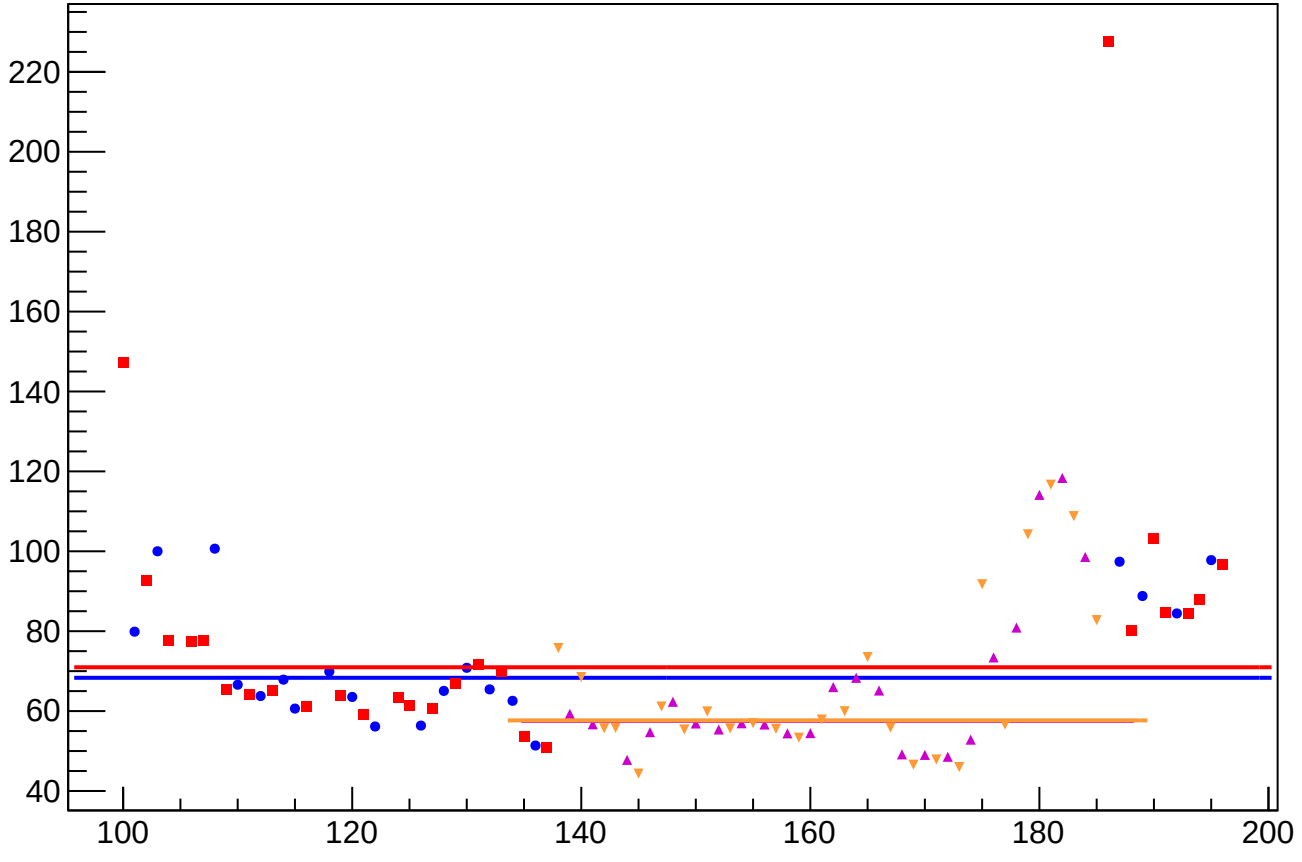
Right: 32.725+/-15.435 $\chi^2$/NDF: 47.9/45

In: -10.678+/-11.873 $\chi^2$/NDF:55.3/42

Out: -6.720+/-11.472 $\chi^2$/NDF:60.6/50

All: -8.631+/-8.250 $\chi^2$/NDF: 116.0/93

# dit_asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 68.335+/-0.016 $\chi^2$/NDF: 830461.6/19

Left Out: 57.668+/-0.010 $\chi^2$/NDF:1909743.5/24

Right Out: 70.969+/-0.015 $\chi^2$/NDF: 1118322.4/25

Left In: 57.539+/-0.010 $\chi^2$/NDF:1443279.4/22

Left: 57.605+/-0.007 $\chi^2$/NDF: 3353109.9/47

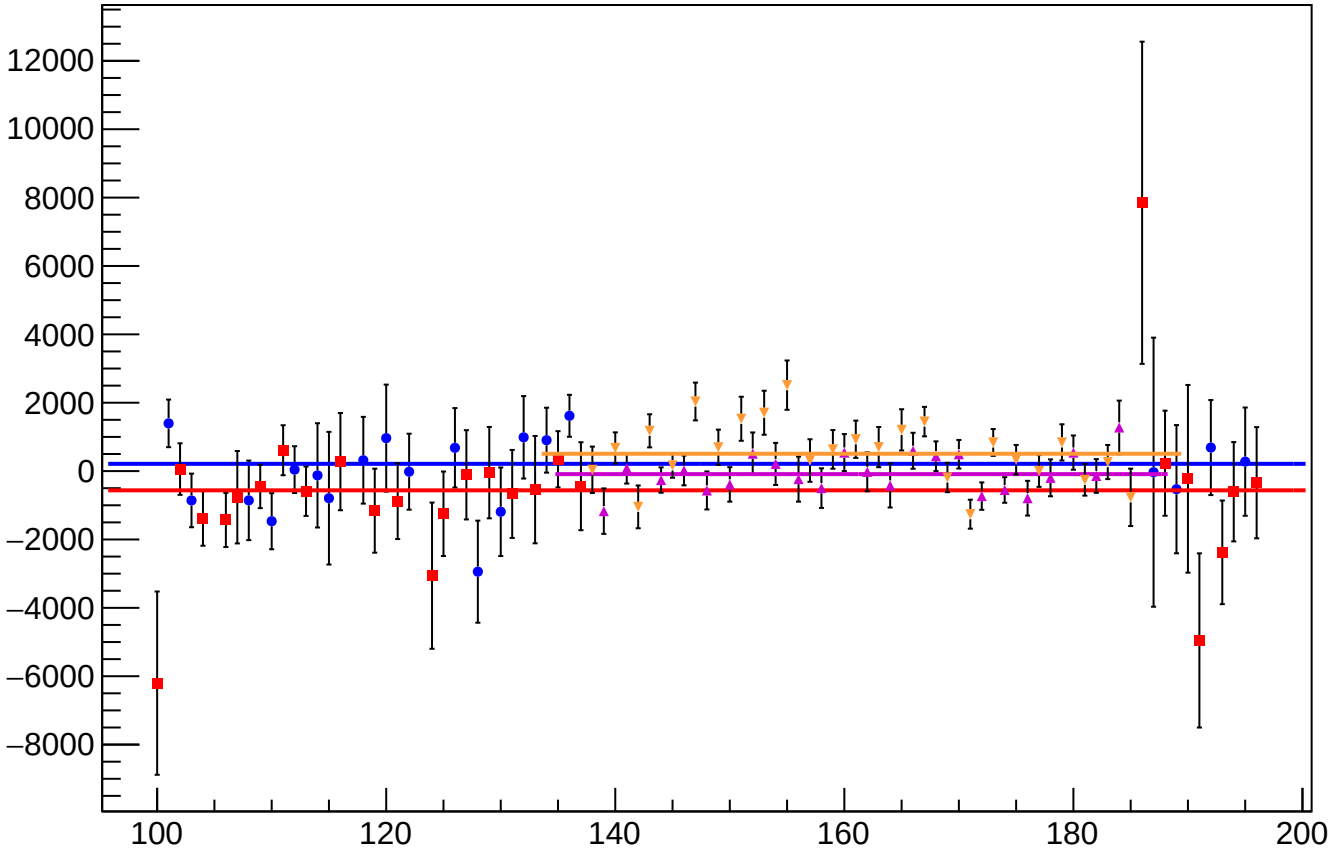
Right: 69.729+/-0.011 $\chi^2$/NDF: 1963295.1/45

In: 60.547+/-0.008 $\chi^2$/NDF:2606077.8/42

Out: 61.556+/-0.008 $\chi^2$/NDF:3584261.4/50

All: 61.069+/-0.006 $\chi^2$/NDF: 6197808.0/93

asym_sam_15_48_dd_dit_correction_mean vs Slug, Sign Corrected




Right In: 212.694+/-235.118 $\chi^2$/NDF: 22.7/19

Left Out: 507.171+/-101.776 $\chi^2$/NDF:65.8/24

Right Out: -562.553+/-218.222 $\chi^2$/NDF: 21.7/25

Left In: -88.471+/-104.542 $\chi^2$/NDF:23.3/22

Left: 217.331+/-72.925 $\chi^2$/NDF: 105.8/47

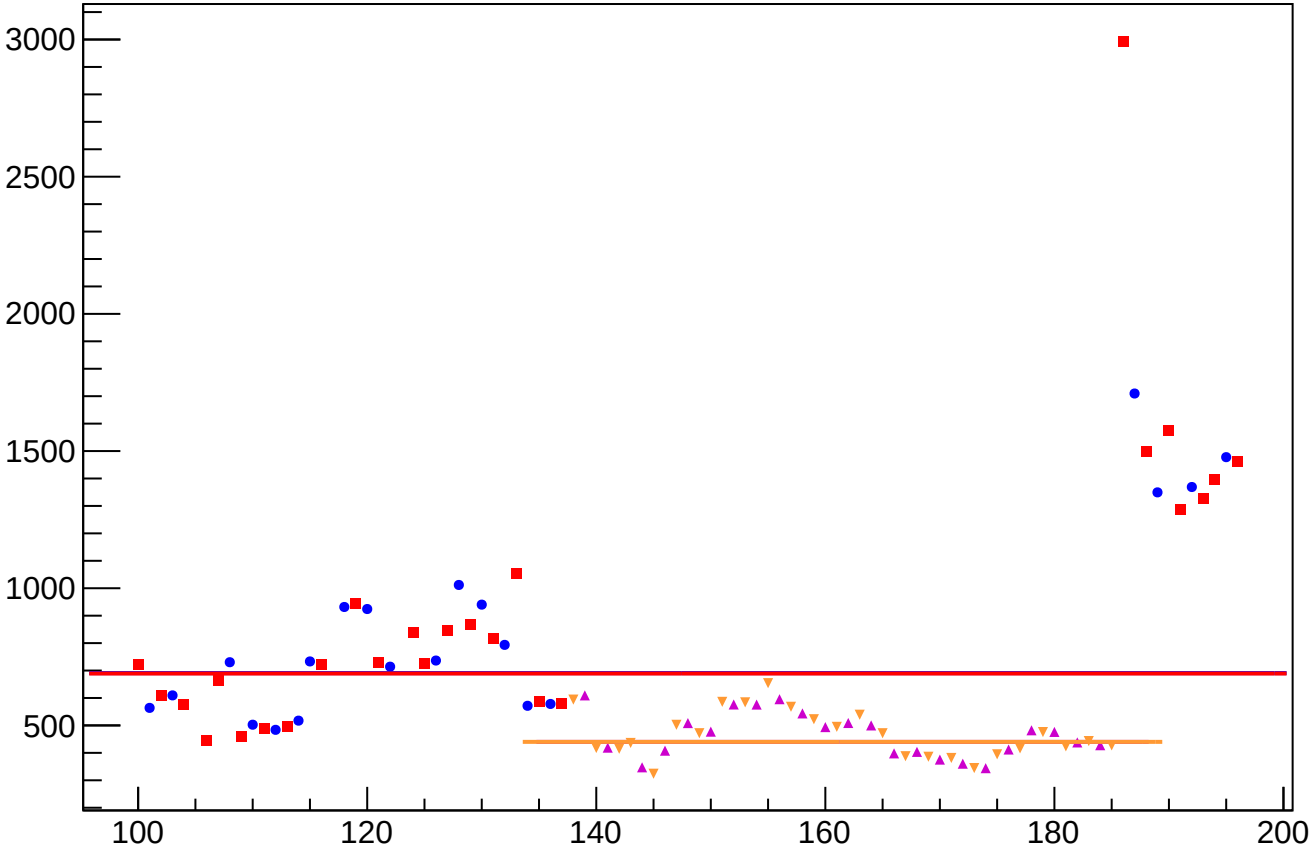
Right: -203.783+/-159.946 $\chi^2$/NDF: 50.3/45

In: -38.759+/-95.525 $\chi^2$/NDF:47.4/42

Out: 316.057+/-92.238 $\chi^2$/NDF:107.3/50

All: 144.858+/-66.353 $\chi^2$/NDF: 161.8/93

asym_sam_15_48_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 690.705+/-0.166 $\chi^2$/NDF: 2156452.0/19

Left Out: 440.075+/-0.072 $\chi^2$/NDF:1196985.5/24

Right Out: 689.147+/-0.154 $\chi^2$/NDF: 3781247.8/25

Left In: 439.877+/-0.074 $\chi^2$/NDF:1061910.1/22

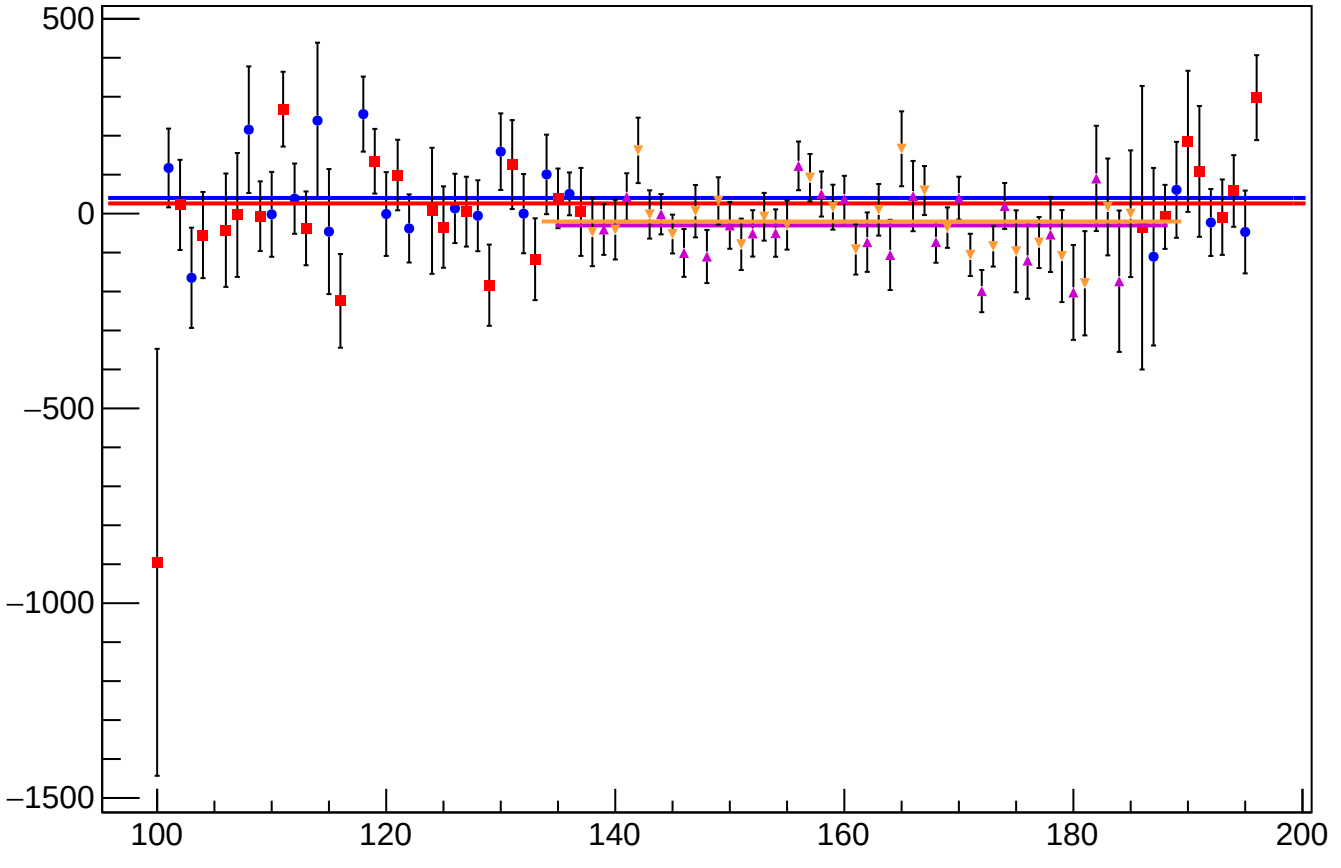
Left: 439.979+/-0.052 $\chi^2$/NDF: 2258899.3/47

Right: 689.868+/-0.113 $\chi^2$/NDF: 5937746.9/45

In: 481.280+/-0.068 $\chi^2$/NDF:5118834.1/42

Out: 484.574+/-0.065 $\chi^2$/NDF:7118199.4/50

All: 482.985+/-0.047 $\chi^2$/NDF: 12238263.9/93




Right In: 40.181+/-22.495 $\chi^2$/NDF: 15.7/19

Left Out: -20.271+/-13.636 $\chi^2$/NDF:25.1/24

Right Out: 26.089+/-21.219 $\chi^2$/NDF: 32.1/25

Left In: -30.318+/-13.979 $\chi^2$/NDF:32.6/22

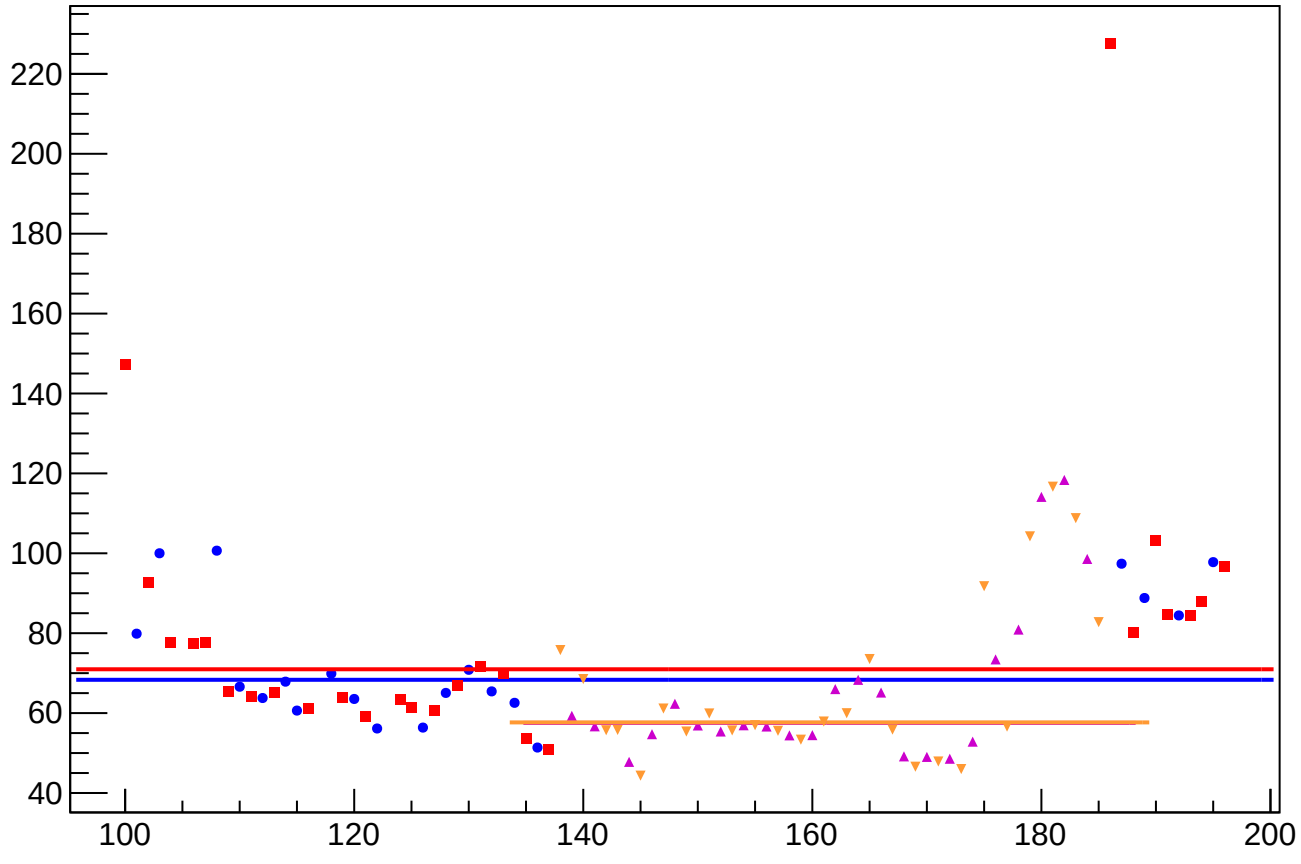
Left: -25.170+/-9.761 $\chi^2$/NDF: 58.0/47

Right: 32.724+/-15.435 $\chi^2$/NDF: 47.9/45

In: -10.678+/-11.873 $\chi^2$/NDF:55.3/42

Out: -6.720+/-11.472 $\chi^2$/NDF:60.6/50

All: -8.631+/-8.250 $\chi^2$/NDF: 116.0/93




Right In: 68.335+/-0.016 $\chi^2$/NDF: 830456.8/19

Left Out: 57.668+/-0.010 $\chi^2$/NDF:1909739.8/24

Right Out: 70.969+/-0.015 $\chi^2$/NDF: 1118334.2/25

Left In: 57.539+/-0.010 $\chi^2$/NDF:1443262.3/22

Left: 57.605+/-0.007 $\chi^2$/NDF: 3353089.2/47

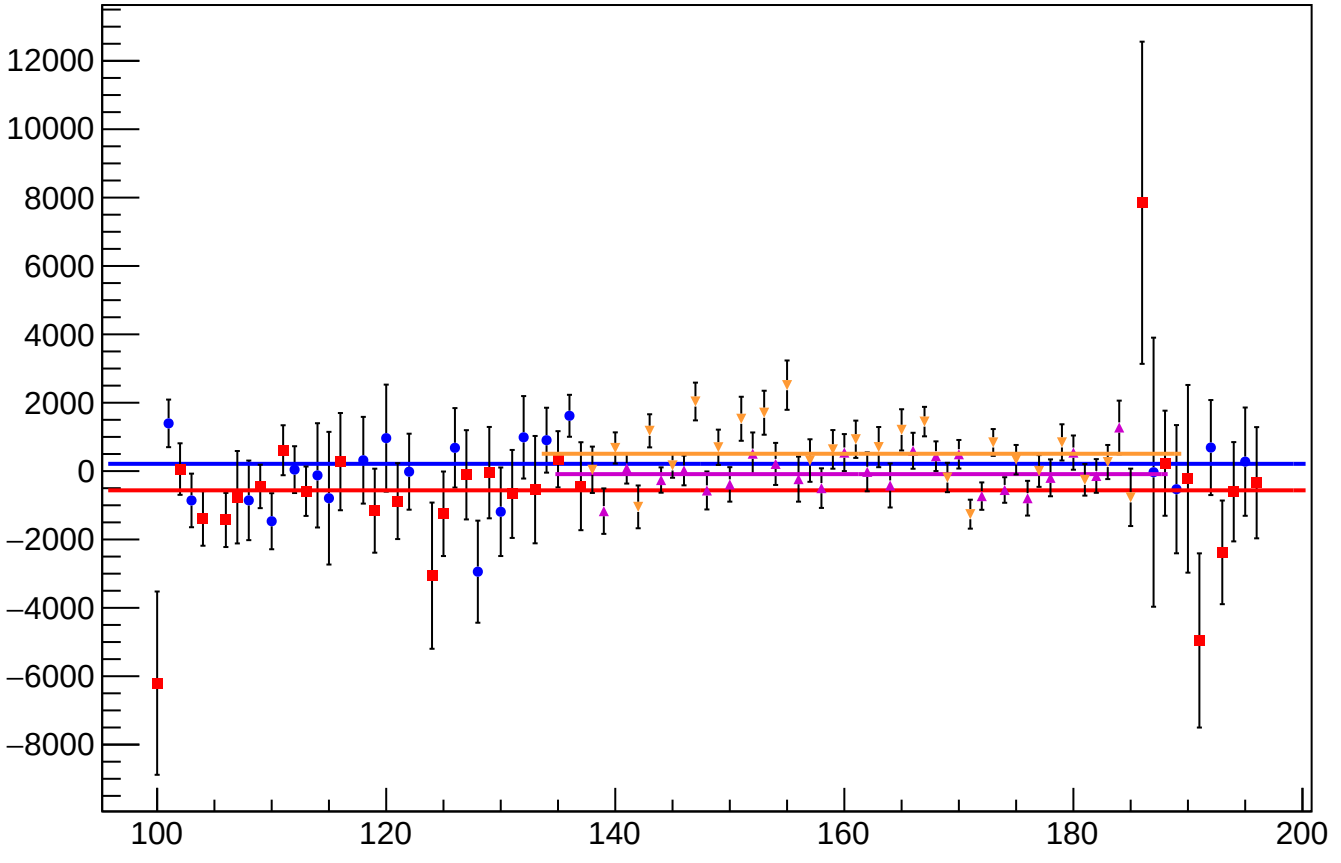
Right: 69.729+/-0.011 $\chi^2$/NDF: 1963301.9/45

In: 60.547+/-0.008 $\chi^2$/NDF:2606046.1/42

Out: 61.556+/-0.008 $\chi^2$/NDF:3584248.4/50

All: 61.069+/-0.006 $\chi^2$/NDF: 6197763.9/93

asym_sam_15_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 212.693+/-235.118 $\chi^2$/NDF: 22.7/19

Left Out: 507.170+/-101.776 $\chi^2$/NDF:65.8/24

Right Out: -562.553+/-218.222 $\chi^2$/NDF: 21.7/25

Left In: -88.471+/-104.541 $\chi^2$/NDF:23.3/22

Left: 217.331+/-72.925 $\chi^2$/NDF: 105.8/47

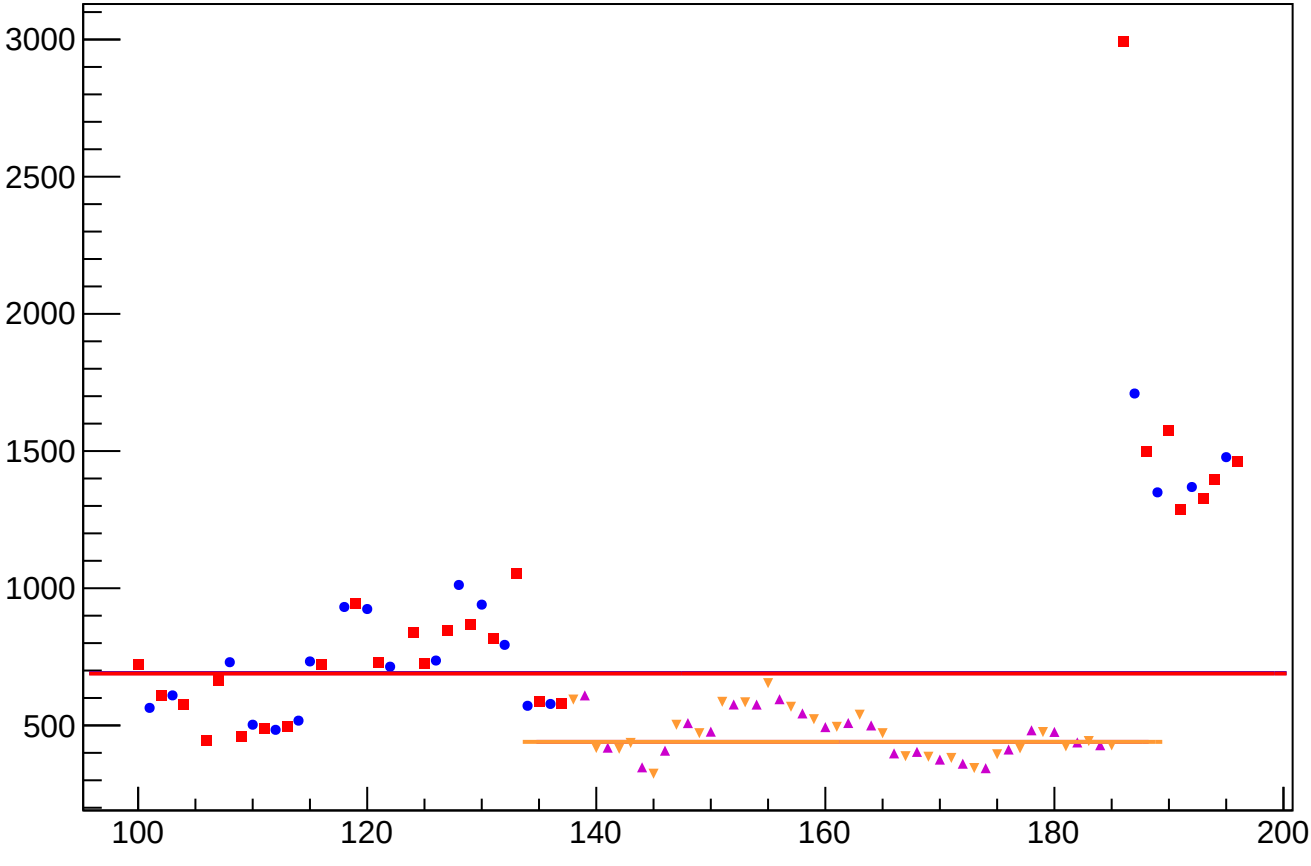
Right: -203.783+/-159.946 $\chi^2$/NDF: 50.3/45

In: -38.759+/-95.524 $\chi^2$/NDF:47.4/42

Out: 316.056+/-92.238 $\chi^2$/NDF:107.3/50

All: 144.858+/-66.353 $\chi^2$/NDF: 161.8/93

asym_sam_15_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 690.704+/-0.166 $\chi^2$/NDF: 2156455.2/19

Left Out: 440.074+/-0.072 $\chi^2$/NDF:1196993.4/24

Right Out: 689.146+/-0.154 $\chi^2$/NDF: 3781249.0/25

Left In: 439.876+/-0.074 $\chi^2$/NDF:1061916.6/22

Left: 439.978+/-0.052 $\chi^2$/NDF: 2258913.7/47

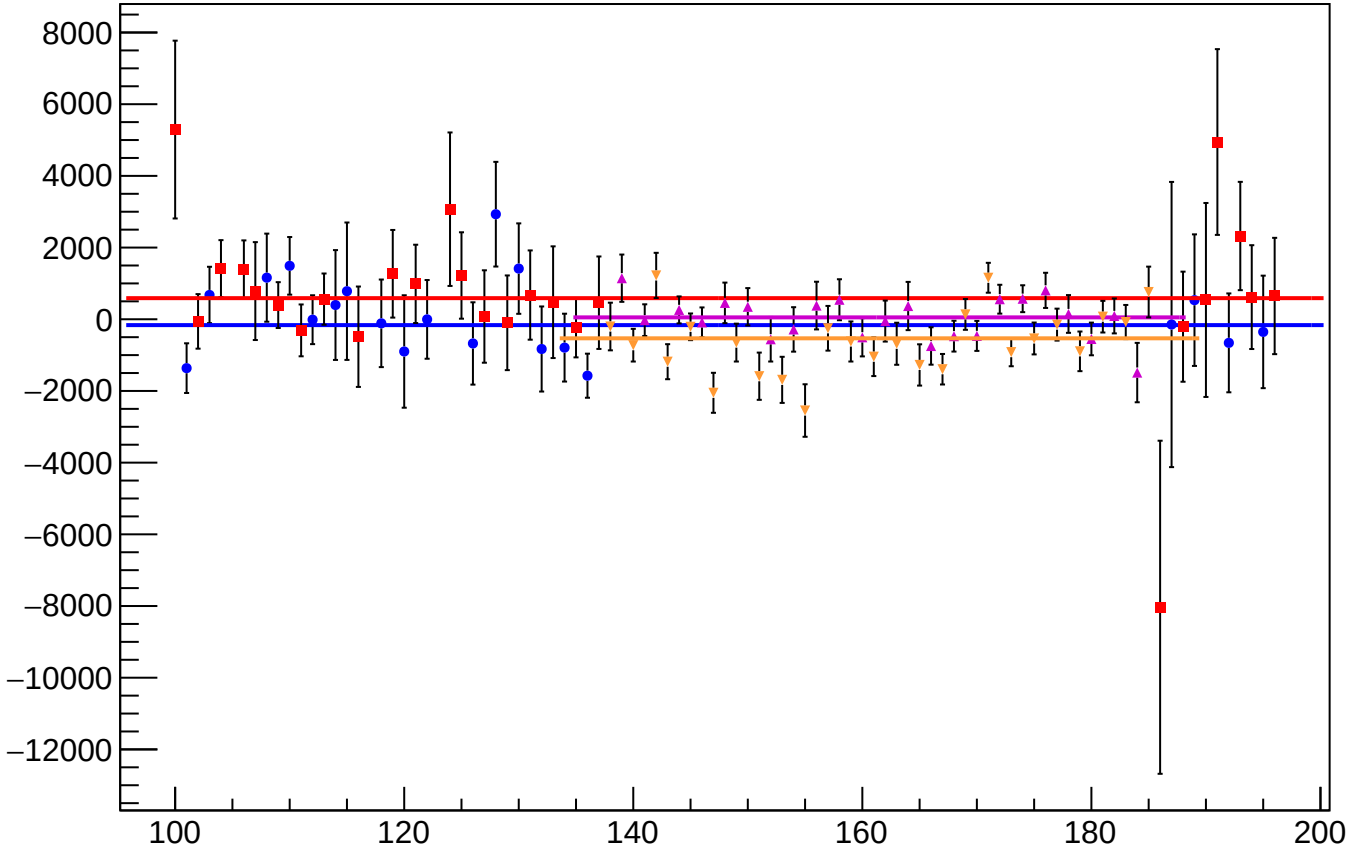
Right: 689.867+/-0.113 $\chi^2$/NDF: 5937751.3/45

In: 481.279+/-0.068 $\chi^2$/NDF:5118854.7/42

Out: 484.573+/-0.065 $\chi^2$/NDF:7118219.2/50

All: 482.984+/-0.047 $\chi^2$/NDF: 12238304.3/93

# asym_sam_15_48_dd_mean vs Slug, Sign Corrected




Right In: -163.274+/-233.868 $\chi^2$/NDF: 22.8/19

Left Out: -531.569+/-101.245 $\chi^2$/NDF:65.6/24

Right Out: 588.897+/-217.504 $\chi^2$/NDF: 20.0/25

Left In: 52.554+/-103.870 $\chi^2$/NDF:24.1/22

Left: -246.981+/-72.501 $\chi^2$/NDF: 105.9/47

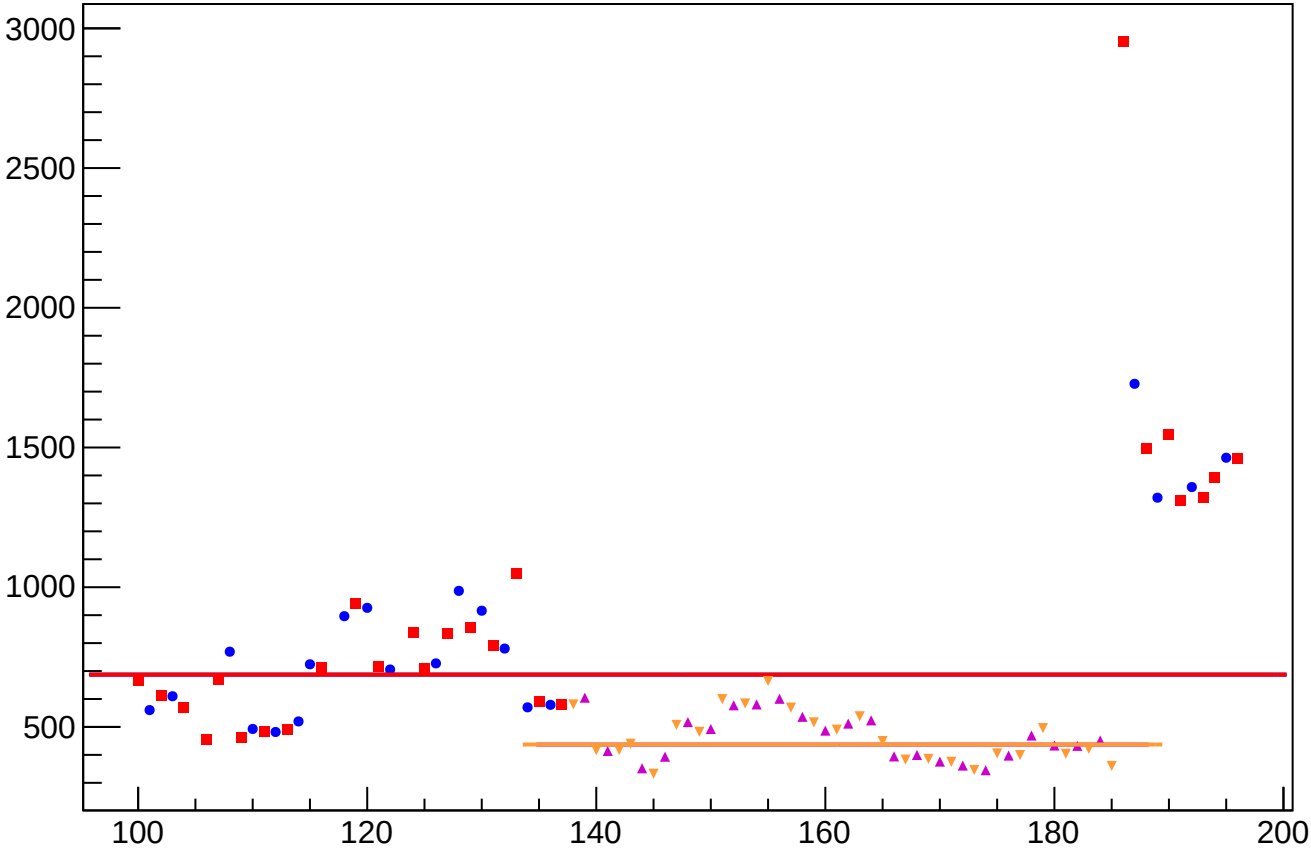
Right: 240.045+/-159.270 $\chi^2$/NDF: 48.3/45

In: 16.994+/-94.928 $\chi^2$/NDF:47.6/42

Out: -332.026+/-91.788 $\chi^2$/NDF:107.4/50

All: -163.384+/-65.986 $\chi^2$/NDF: 161.9/93

# asym_sam_15_48_dd_rms vs Slug, Sign Corrected




Right In: 687.212+/-0.165 $\chi^2$/NDF: 2118945.1/19

Left Out: 437.157+/-0.072 $\chi^2$/NDF:1227453.3/24

Right Out: 687.358+/-0.154 $\chi^2$/NDF: 3735838.7/25

Left In: 436.937+/-0.073 $\chi^2$/NDF:1080038.0/22

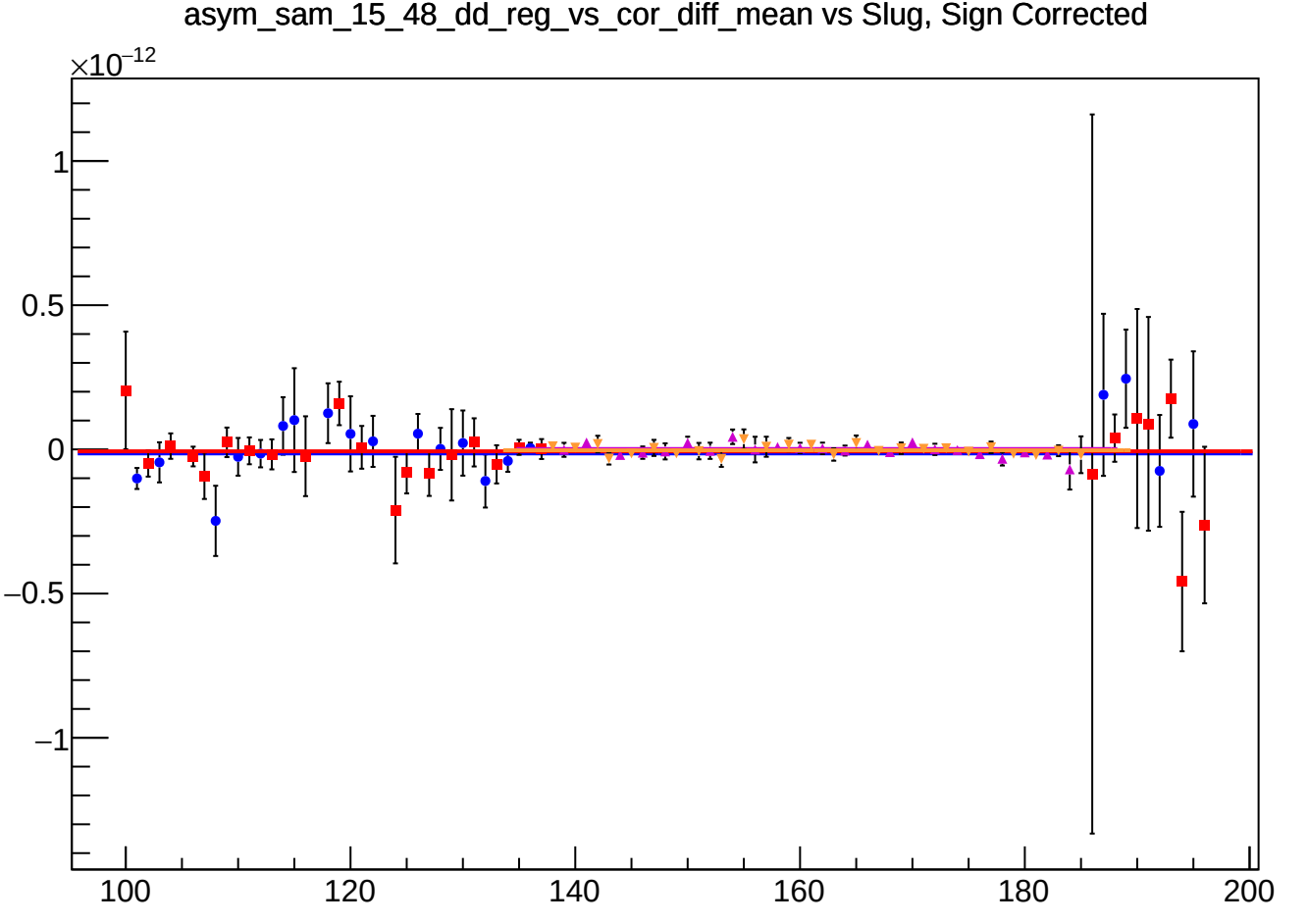
Left: 437.050+/-0.051 $\chi^2$/NDF: 2307495.9/47

Right: 687.290+/-0.113 $\chi^2$/NDF: 5854784.2/45

In: 478.172+/-0.067 $\chi^2$/NDF:5112057.1/42

Out: 481.715+/-0.065 $\chi^2$/NDF:7138488.0/50

All: 480.003+/-0.047 $\chi^2$/NDF: 12251984.5/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:14.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:22.0/22

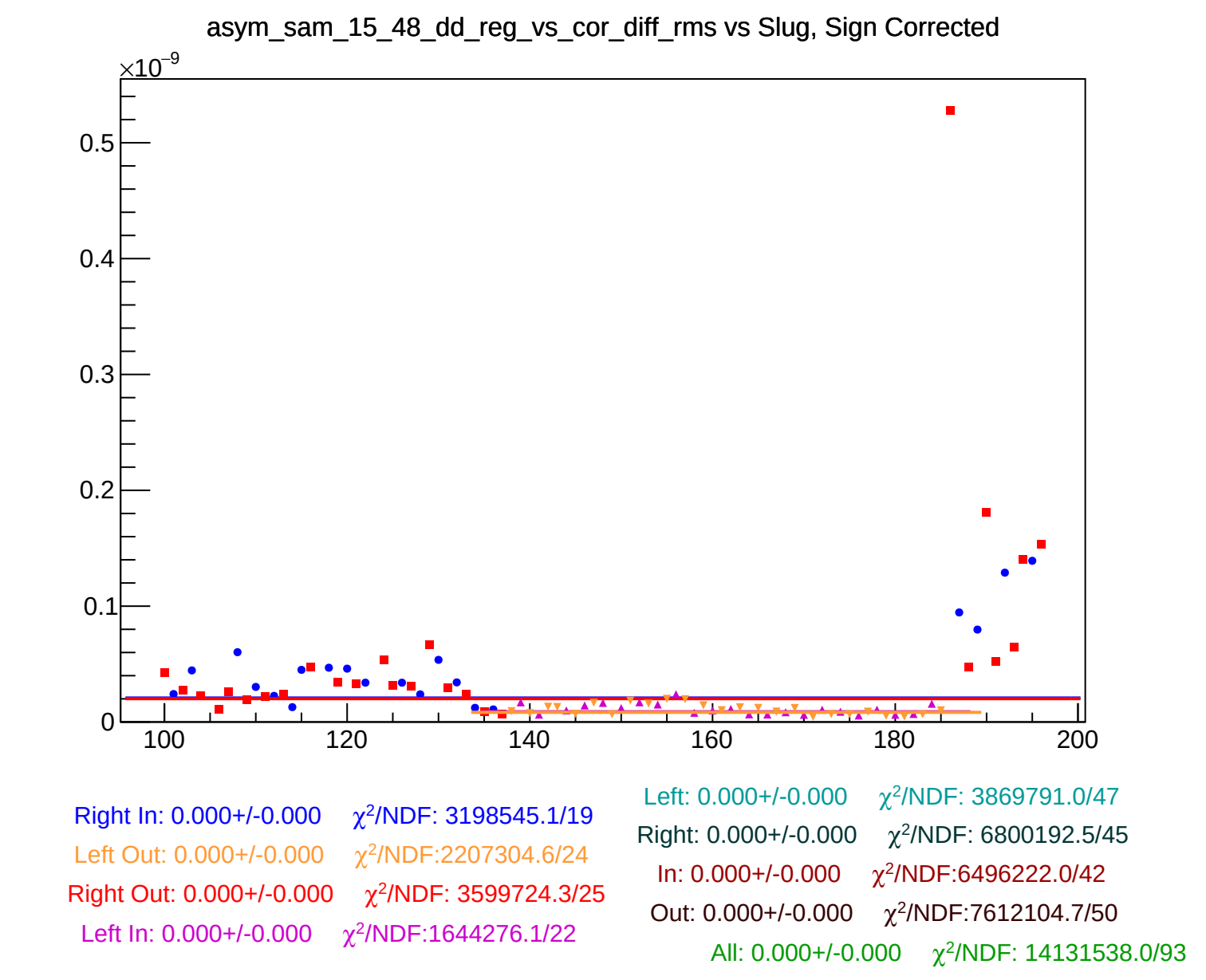
Left: -0.000+/-0.000 $\chi^2$/NDF: 37.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 39.9/45

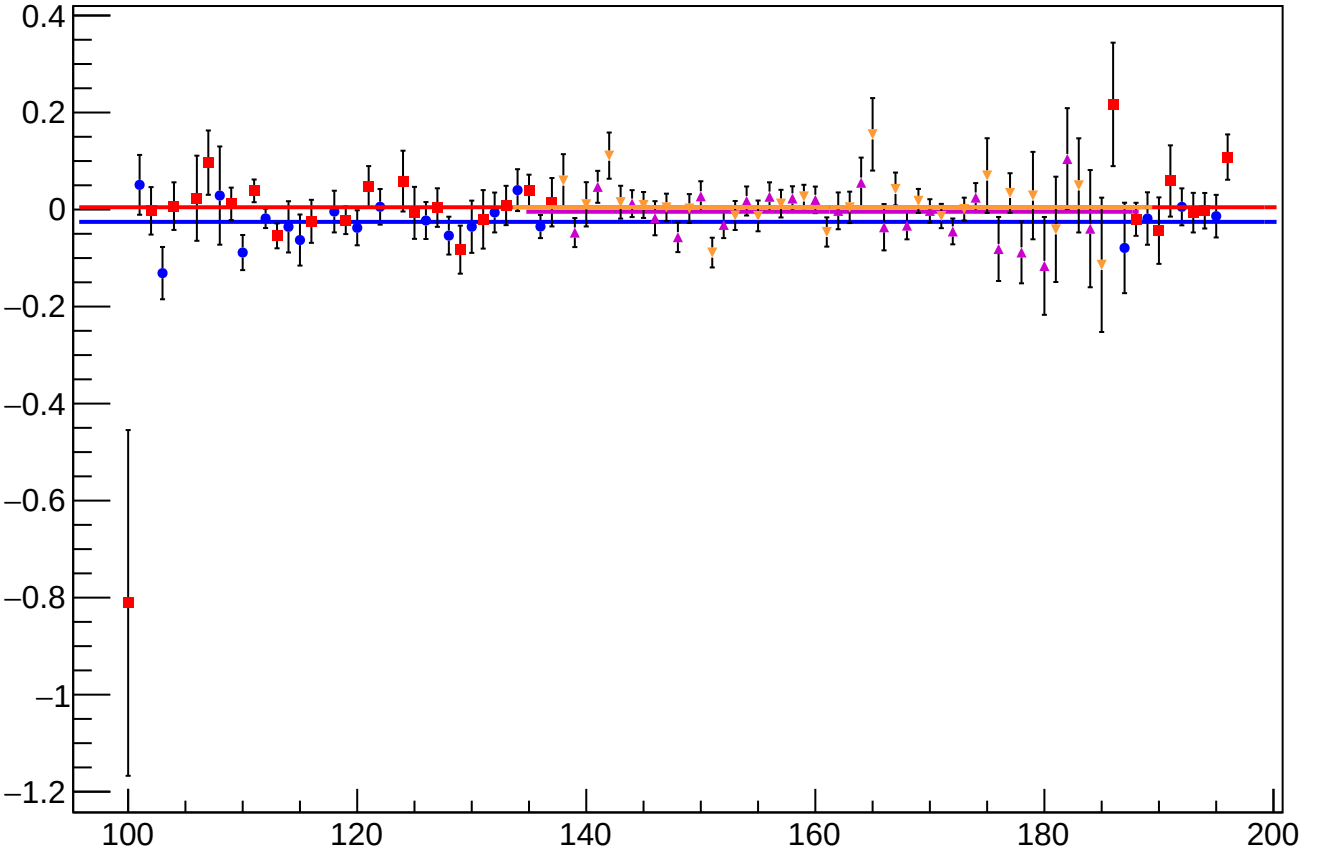
In: 0.000+/-0.000 $\chi^2$/NDF:43.4/42

Out: -0.000+/-0.000 $\chi^2$/NDF:34.0/50

All: -0.000+/-0.000 $\chi^2$/NDF: 78.0/93


asym_sam_15_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3198545.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2207304.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 3599724.3/25
Left In: 0.000+/-0.000 χ²/NDF:1644276.1/22
Left: 0.000+/-0.000 χ²/NDF: 3869791.0/47
Right: 0.000+/-0.000 χ²/NDF: 6800192.5/45
In: 0.000+/-0.000 χ²/NDF:6496222.0/42
Out: 0.000+/-0.000 χ²/NDF:7612104.7/50
All: 0.000+/-0.000 χ²/NDF: 14131538.0/93

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.025+/-0.009 $\chi^2$/NDF: 14.8/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:28.4/24

Right Out: 0.005+/-0.008 $\chi^2$/NDF: 31.5/25

Left In: -0.005+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.000+/-0.005 $\chi^2$/NDF: 54.5/47

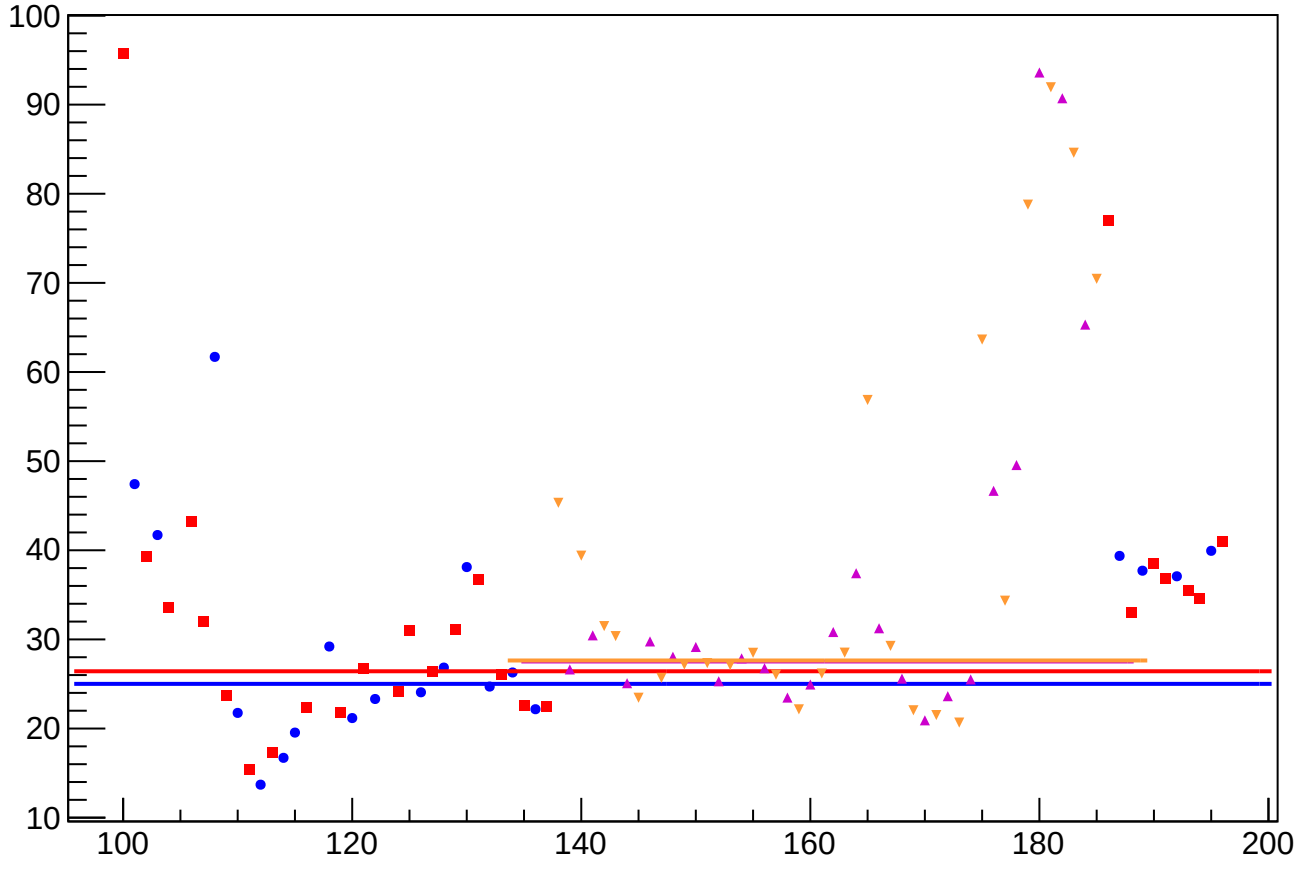
Right: -0.009+/-0.006 $\chi^2$/NDF: 52.6/45

In: -0.013+/-0.005 $\chi^2$/NDF:43.4/42

Out: 0.005+/-0.005 $\chi^2$/NDF:59.9/50

All: -0.004+/-0.004 $\chi^2$/NDF: 108.7/93

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.012+/-0.006 $\chi^2$/NDF: 2239948.3/19

Left Out: 27.635+/-0.005 $\chi^2$/NDF:3974084.8/24

Right Out: 26.425+/-0.006 $\chi^2$/NDF: 2146282.4/25

Left In: 27.524+/-0.005 $\chi^2$/NDF:2634540.9/22

Left: 27.581+/-0.003 $\chi^2$/NDF: 6608881.9/47

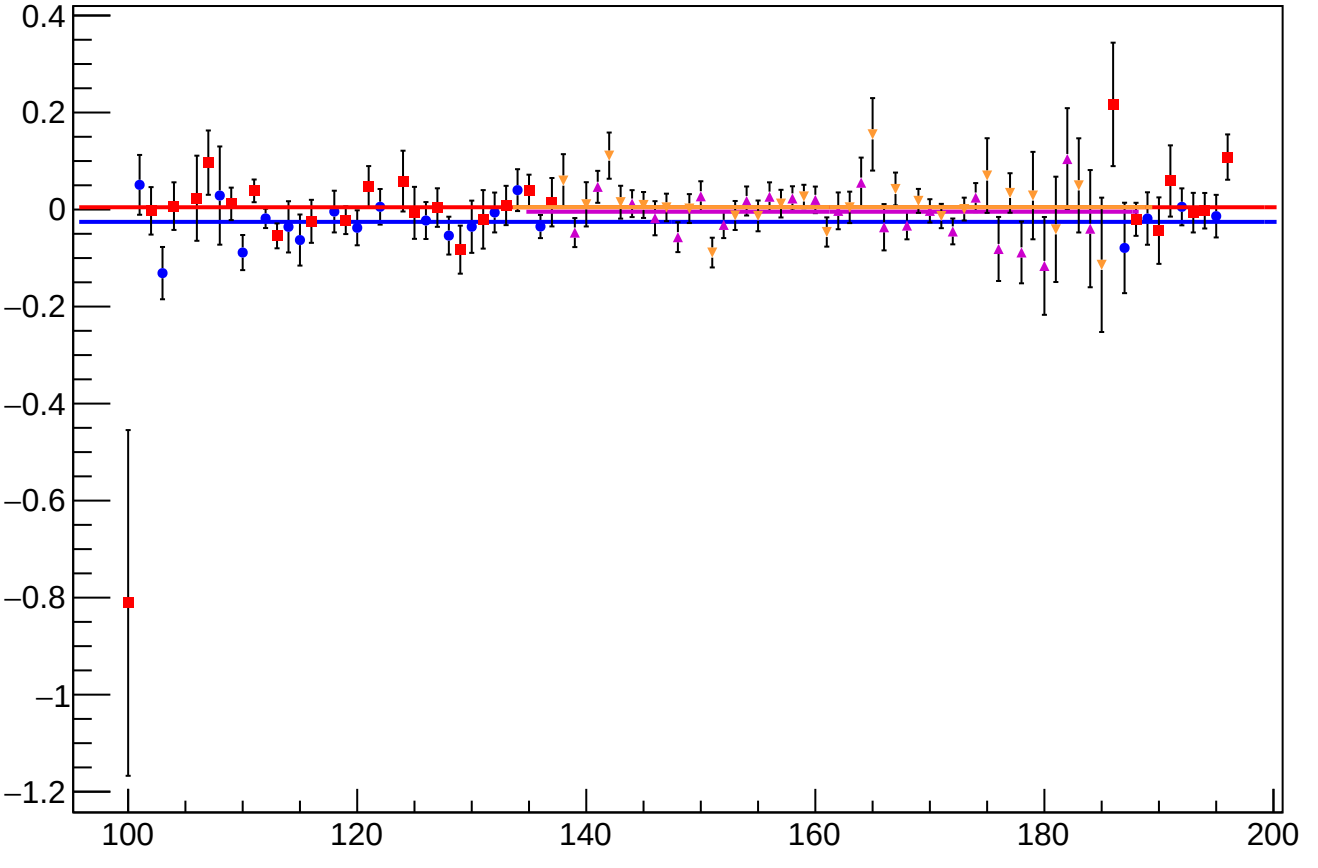
Right: 25.762+/-0.004 $\chi^2$/NDF: 4413805.0/45

In: 26.550+/-0.004 $\chi^2$/NDF:4974924.1/42

Out: 27.141+/-0.004 $\chi^2$/NDF:6145831.7/50

All: 26.856+/-0.003 $\chi^2$/NDF: 11132894.9/93

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.025+/-0.009 $\chi^2$/NDF: 14.8/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:28.4/24

Right Out: 0.005+/-0.008 $\chi^2$/NDF: 31.5/25

Left In: -0.005+/-0.007 $\chi^2$/NDF:25.1/22

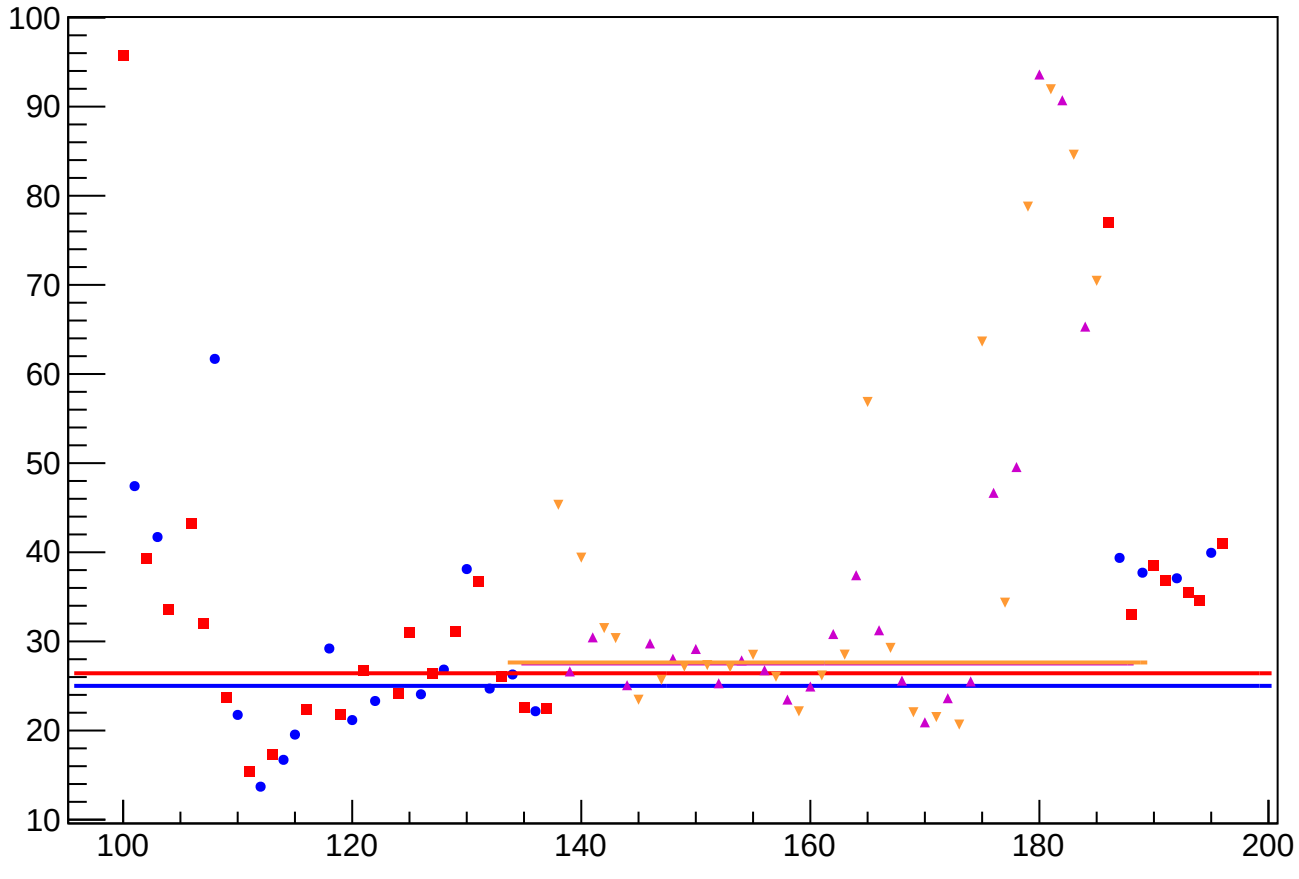
Left: 0.000+/-0.005 $\chi^2$/NDF: 54.5/47

Right: -0.009+/-0.006 $\chi^2$/NDF: 52.6/45

In: -0.013+/-0.005 $\chi^2$/NDF:43.4/42

Out: 0.005+/-0.005 $\chi^2$/NDF:59.9/50

All: -0.004+/-0.004 $\chi^2$/NDF: 108.7/93




Right In: 25.012+/-0.006 $\chi^2$/NDF: 2239948.3/19

Left Out: 27.635+/-0.005 $\chi^2$/NDF:3974084.8/24

Right Out: 26.425+/-0.006 $\chi^2$/NDF: 2146282.4/25

Left In: 27.524+/-0.005 $\chi^2$/NDF:2634540.9/22

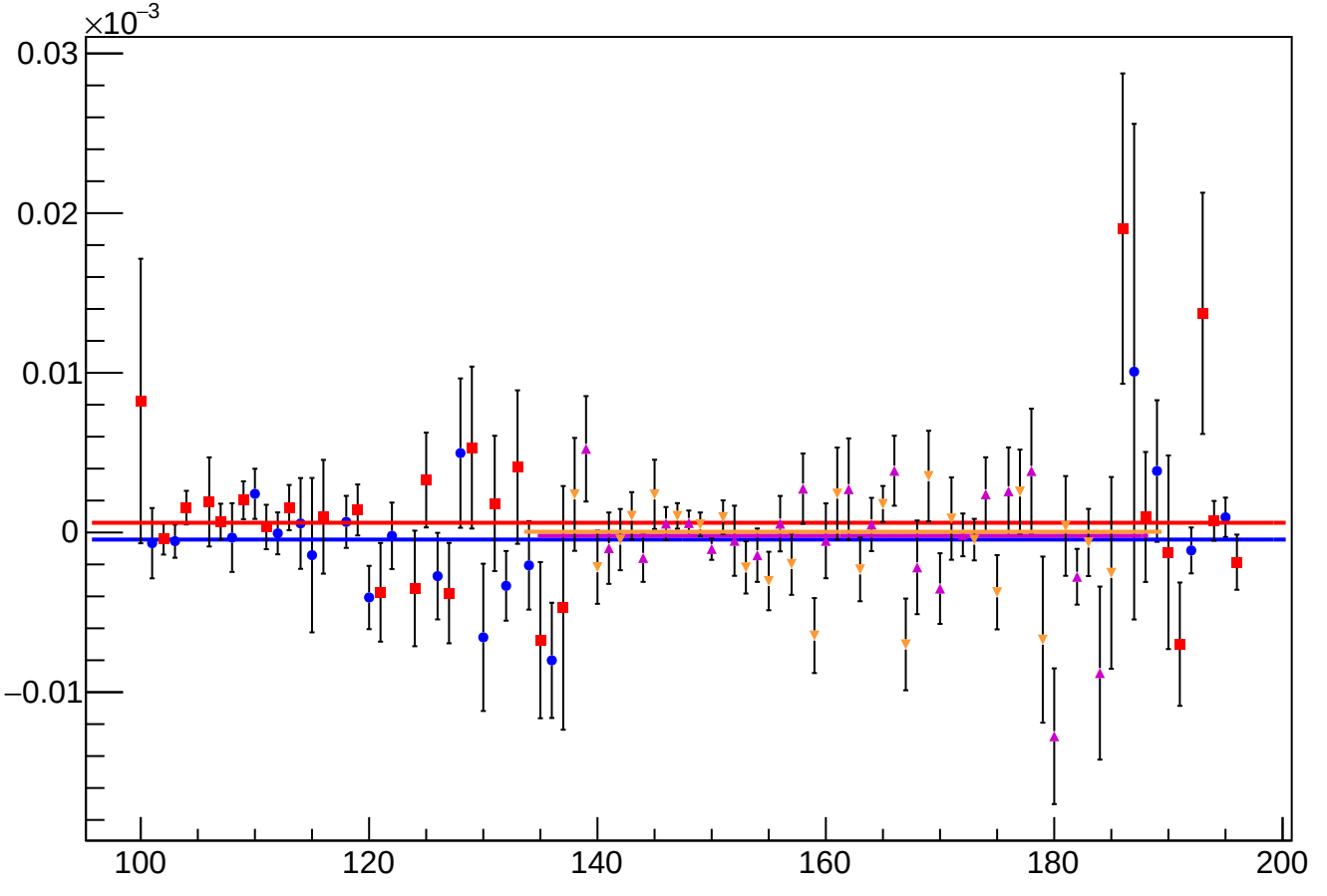
Left: 27.581+/-0.003 $\chi^2$/NDF: 6608881.9/47

Right: 25.762+/-0.004 $\chi^2$/NDF: 4413805.0/45

In: 26.550+/-0.004 $\chi^2$/NDF:4974924.1/42

Out: 27.141+/-0.004 $\chi^2$/NDF:6145831.7/50

All: 26.856+/-0.003 $\chi^2$/NDF: 11132894.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 20.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:33.3/22

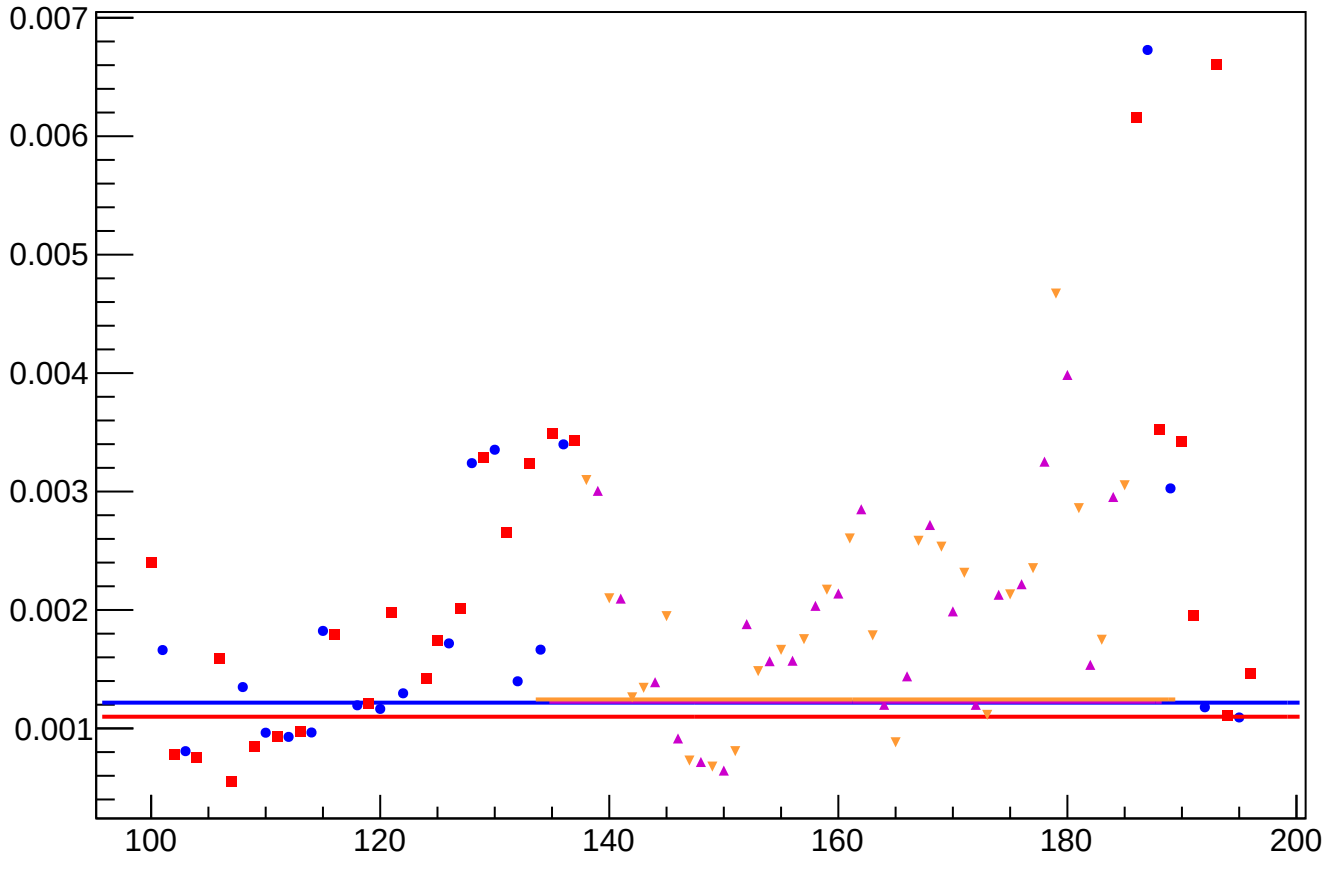
Left: -0.000+/-0.000 $\chi^2$/NDF: 70.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 51.9/45

In: -0.000+/-0.000 $\chi^2$/NDF:54.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:66.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 122.8/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 2874859.0/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:8341059.1/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 6181486.5/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:7822849.8/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 16167353.6/47

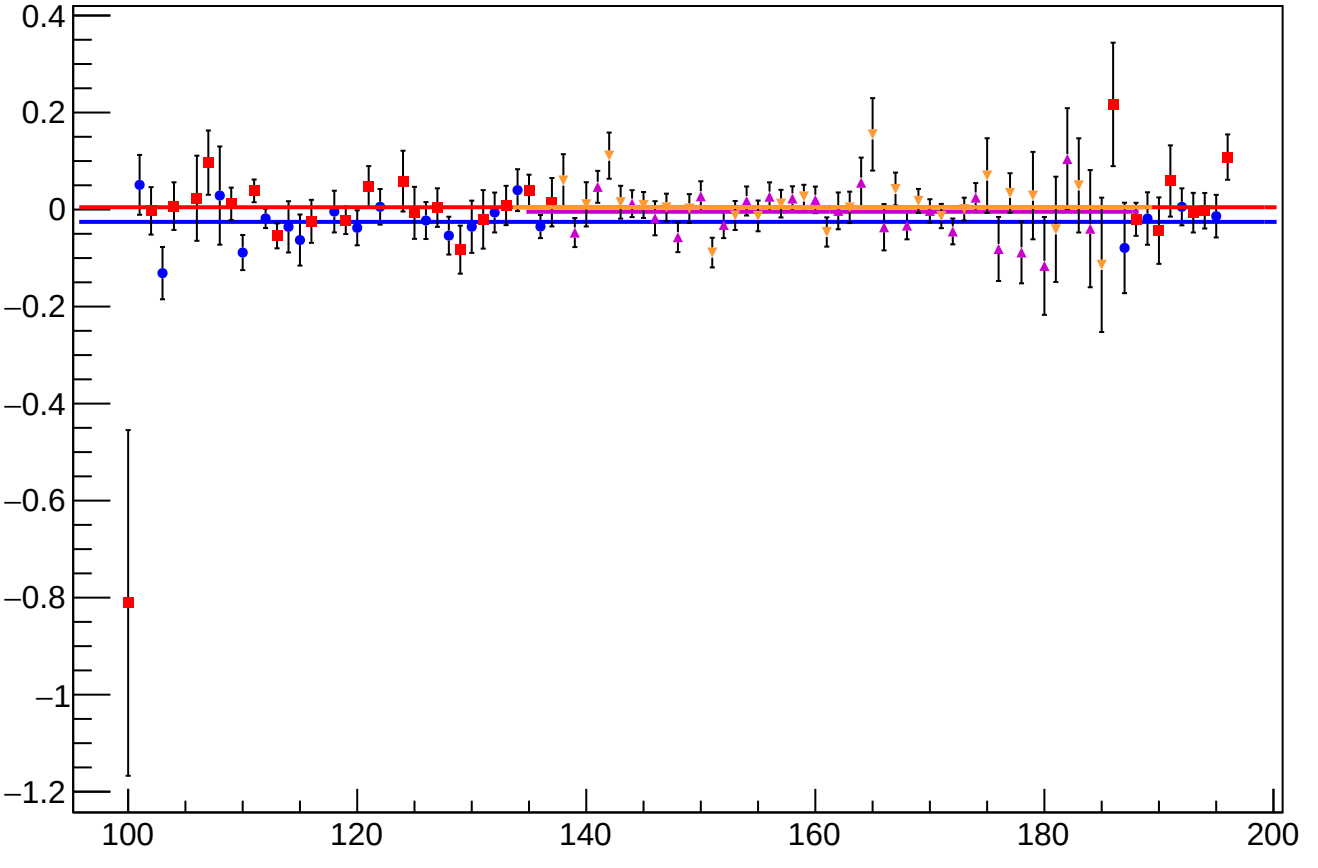
Right: 0.001+/-0.000 $\chi^2$/NDF: 9139870.0/45

In: 0.001+/-0.000 $\chi^2$/NDF:10698108.2/42

Out: 0.001+/-0.000 $\chi^2$/NDF:14691725.9/50

All: 0.001+/-0.000 $\chi^2$/NDF: 25413194.0/93

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.025+/-0.009 $\chi^2$/NDF: 14.8/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:28.4/24

Right Out: 0.005+/-0.008 $\chi^2$/NDF: 31.5/25

Left In: -0.005+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.000+/-0.005 $\chi^2$/NDF: 54.5/47

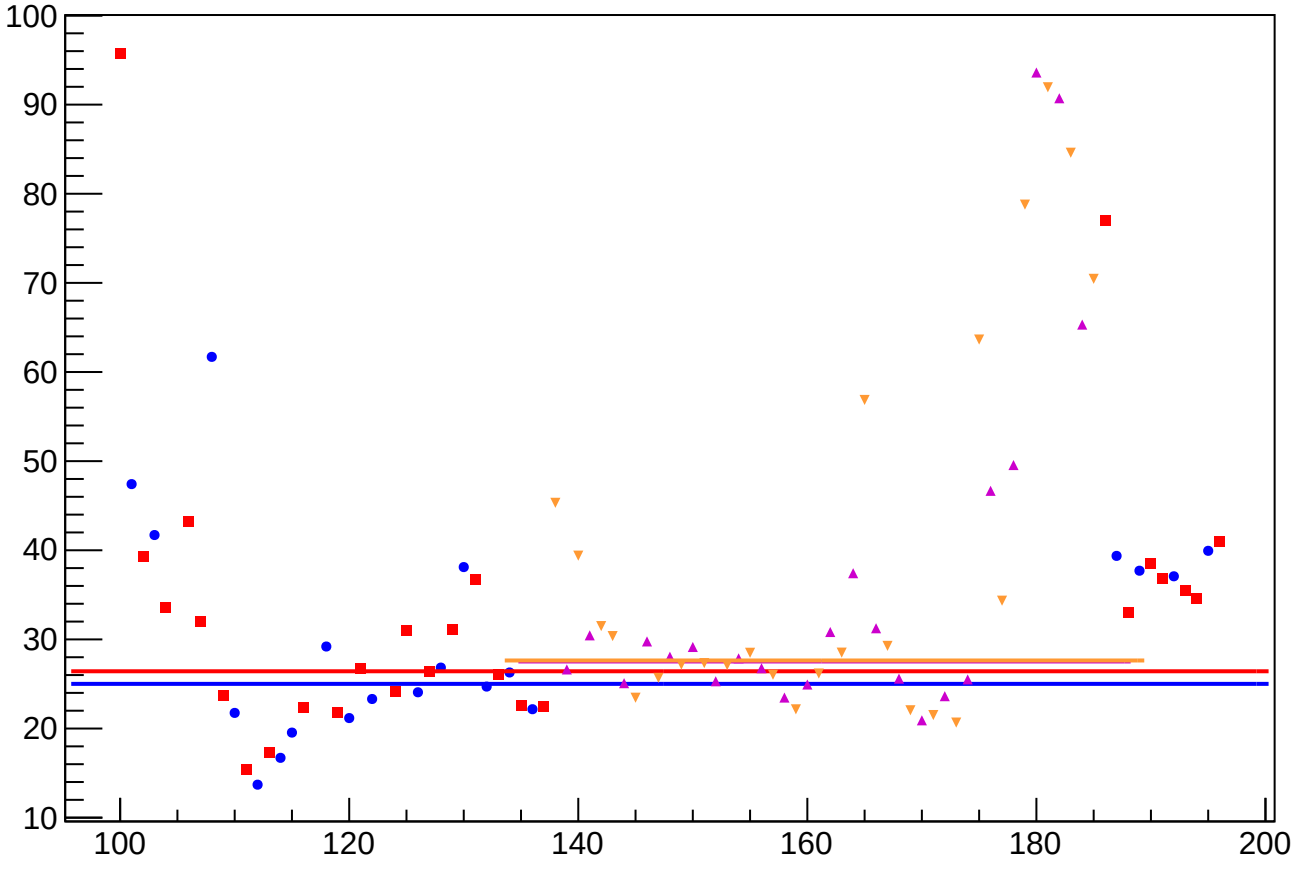
Right: -0.009+/-0.006 $\chi^2$/NDF: 52.6/45

In: -0.013+/-0.005 $\chi^2$/NDF:43.4/42

Out: 0.005+/-0.005 $\chi^2$/NDF:59.9/50

All: -0.004+/-0.004 $\chi^2$/NDF: 108.7/93

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.012+/-0.006 $\chi^2$/NDF: 2239962.7/19

Left Out: 27.635+/-0.005 $\chi^2$/NDF:3974025.3/24

Right Out: 26.425+/-0.006 $\chi^2$/NDF: 2146374.2/25

Left In: 27.524+/-0.005 $\chi^2$/NDF:2634508.8/22

Left: 27.581+/-0.003 $\chi^2$/NDF: 6608790.9/47

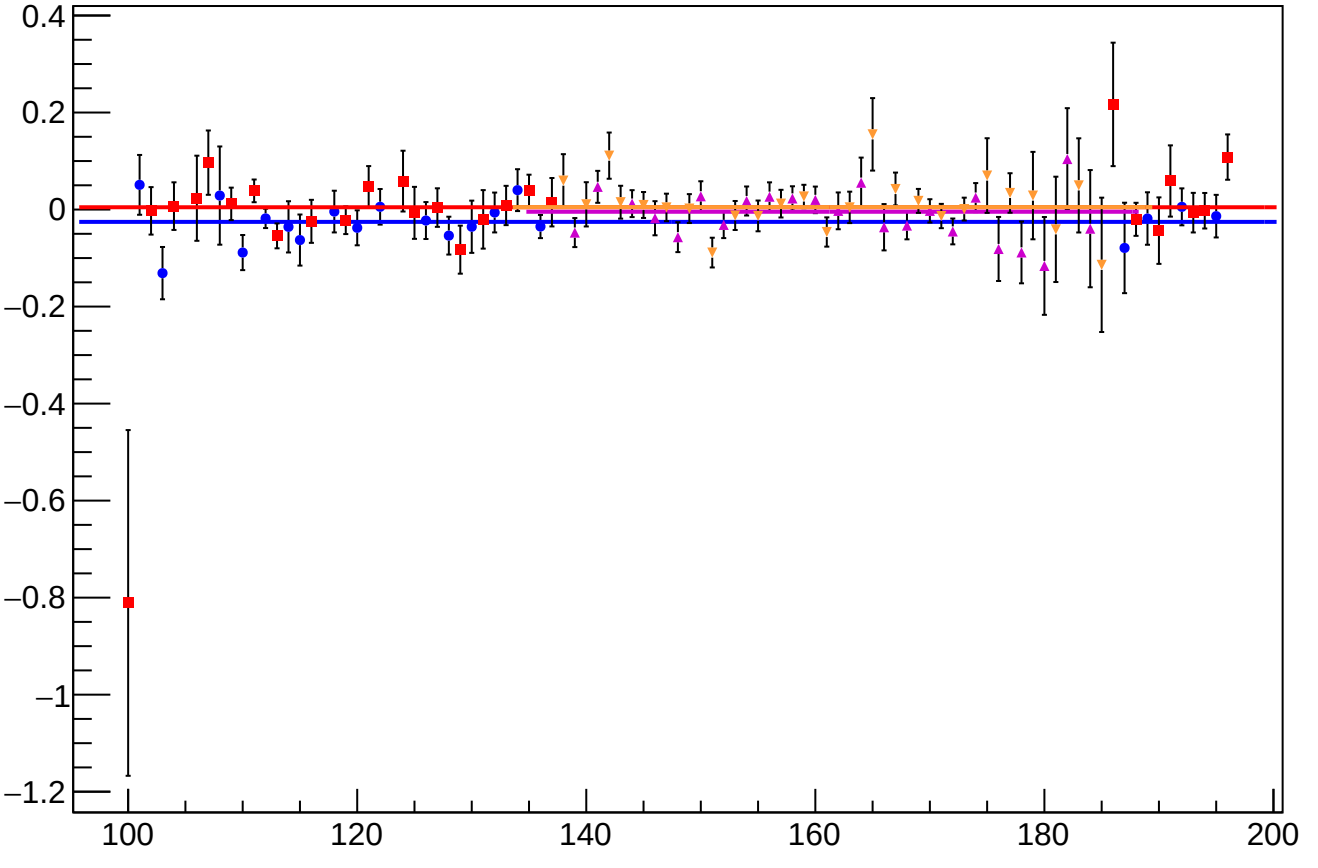
Right: 25.762+/-0.004 $\chi^2$/NDF: 4413911.0/45

In: 26.550+/-0.004 $\chi^2$/NDF:4974939.3/42

Out: 27.141+/-0.004 $\chi^2$/NDF:6145887.6/50

All: 26.856+/-0.003 $\chi^2$/NDF: 11132969.0/93

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.025+/-0.009 $\chi^2$/NDF: 14.8/19

Left Out: 0.005+/-0.007 $\chi^2$/NDF:28.4/24

Right Out: 0.005+/-0.008 $\chi^2$/NDF: 31.5/25

Left In: -0.005+/-0.007 $\chi^2$/NDF:25.1/22

Left: 0.000+/-0.005 $\chi^2$/NDF: 54.5/47

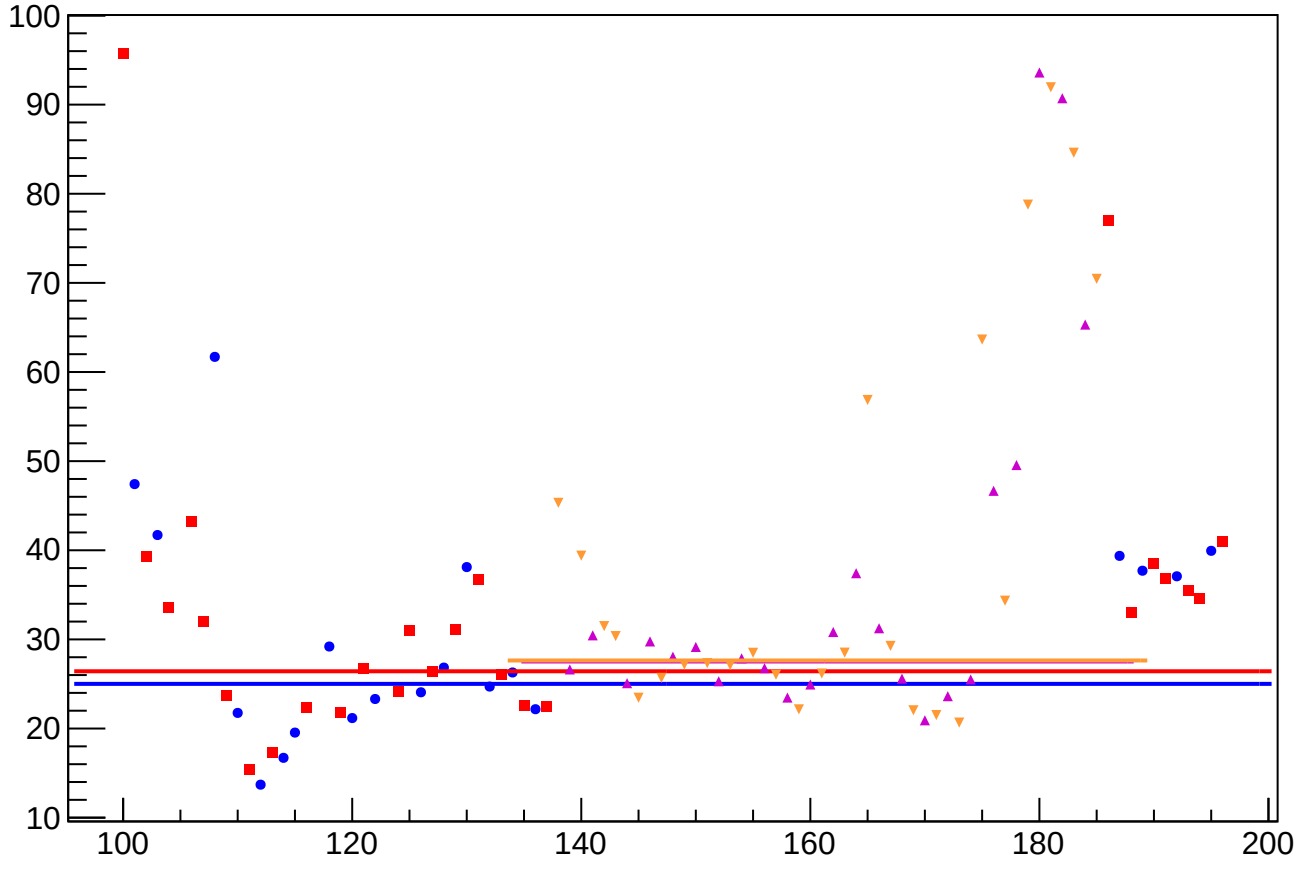
Right: -0.009+/-0.006 $\chi^2$/NDF: 52.6/45

In: -0.013+/-0.005 $\chi^2$/NDF:43.4/42

Out: 0.005+/-0.005 $\chi^2$/NDF:59.9/50

All: -0.004+/-0.004 $\chi^2$/NDF: 108.7/93

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.012+/-0.006 $\chi^2$/NDF: 2239962.7/19

Left Out: 27.635+/-0.005 $\chi^2$/NDF:3974025.3/24

Right Out: 26.425+/-0.006 $\chi^2$/NDF: 2146374.2/25

Left In: 27.524+/-0.005 $\chi^2$/NDF:2634508.8/22

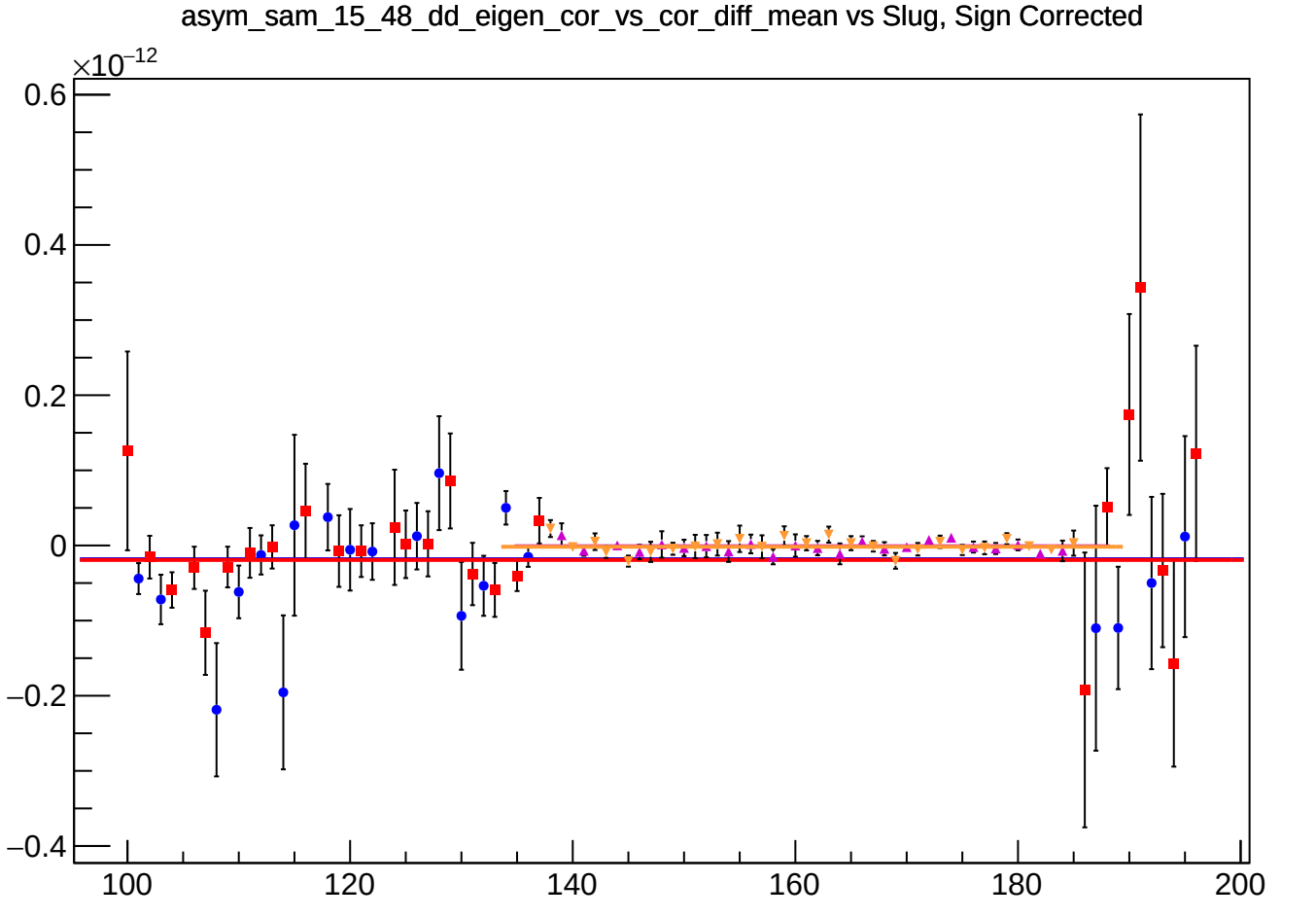
Left: 27.581+/-0.003 $\chi^2$/NDF: 6608790.9/47

Right: 25.762+/-0.004 $\chi^2$/NDF: 4413911.0/45

In: 26.550+/-0.004 $\chi^2$/NDF:4974939.3/42

Out: 27.141+/-0.004 $\chi^2$/NDF:6145887.6/50

All: 26.856+/-0.003 $\chi^2$/NDF: 11132969.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 31.6/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:24.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.4/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.5/22

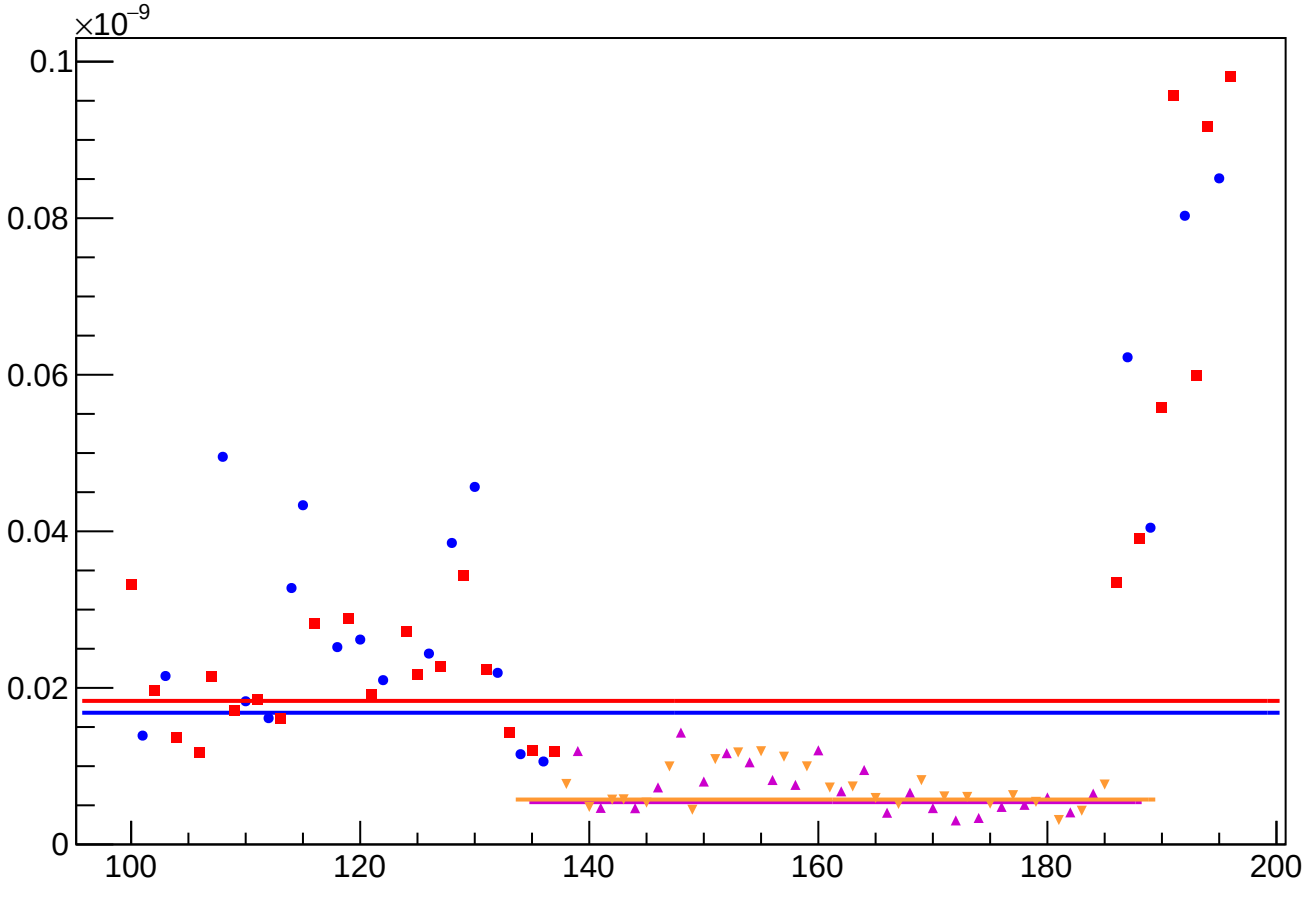
Left: -0.000+/-0.000 $\chi^2$/NDF: 41.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 59.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:52.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:56.8/50

All: -0.000+/-0.000 $\chi^2$/NDF: 109.8/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3245553.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2645460.0/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3144823.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:3476696.9/22

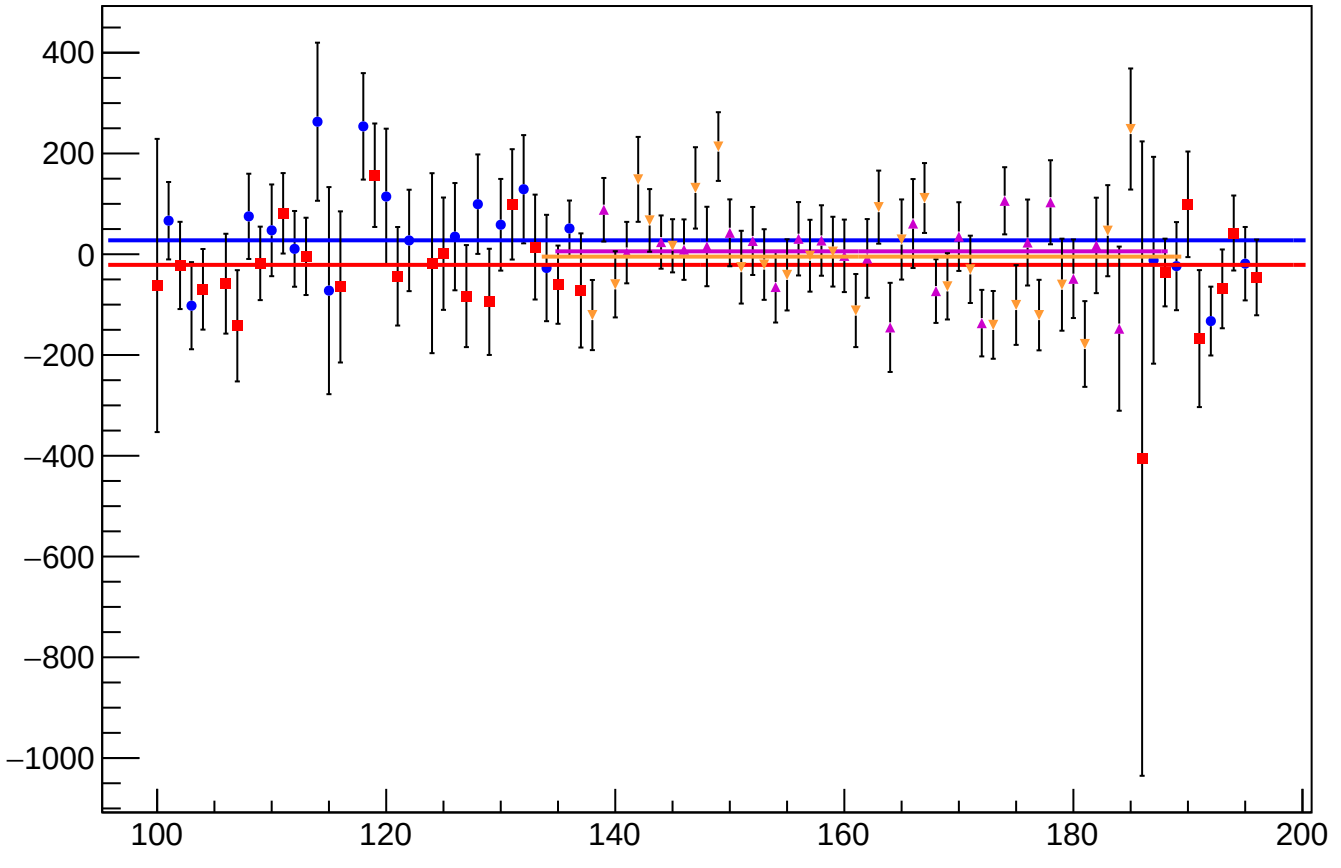
Left: 0.000+/-0.000 $\chi^2$/NDF: 6159899.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6428918.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:10922216.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10852204.7/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21827119.9/93




Right In: 27.630+/-20.334 $\chi^2$/NDF: 18.7/19

Left Out: -4.742+/-14.432 $\chi^2$/NDF:47.4/24

Right Out: -21.092+/-18.721 $\chi^2$/NDF: 13.3/25

Left In: 5.776+/-14.931 $\chi^2$/NDF:18.3/22

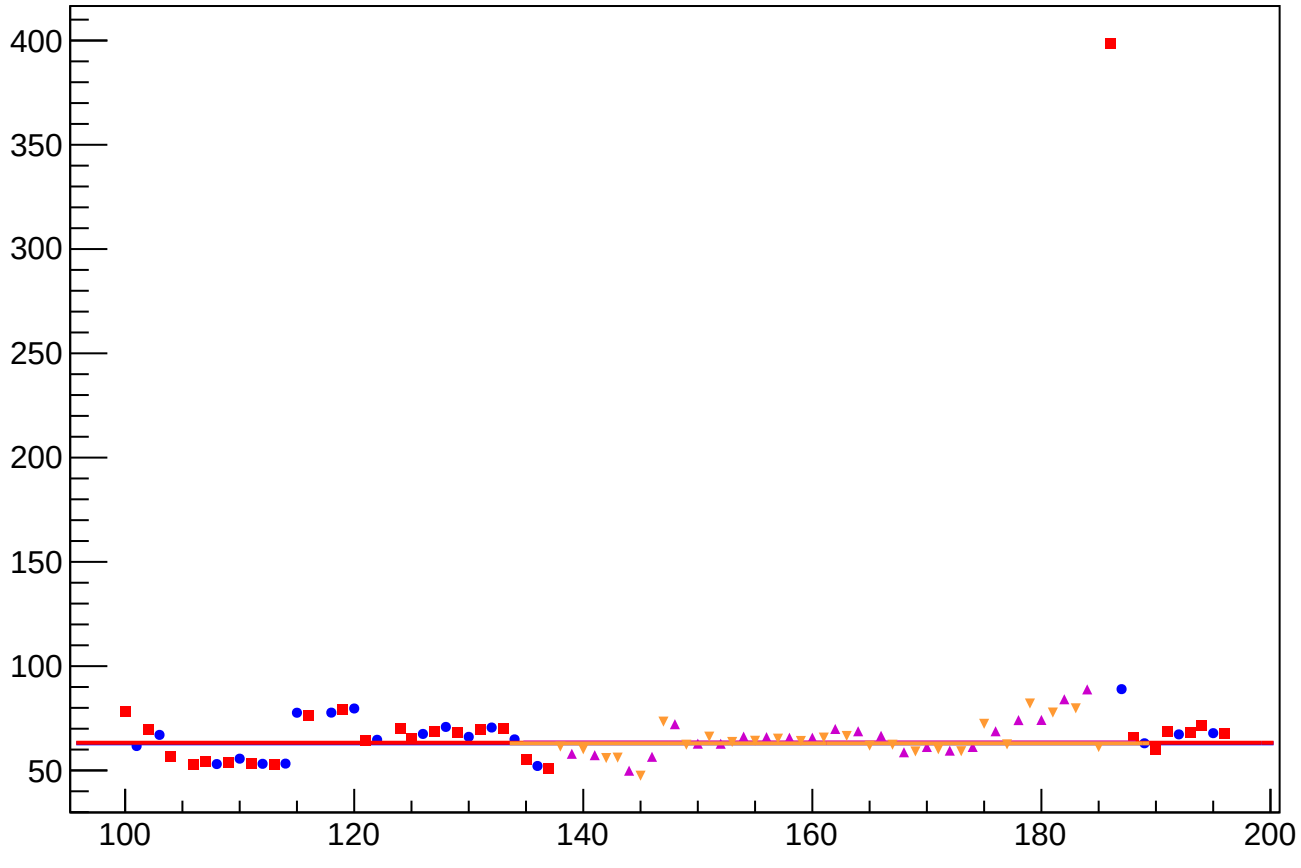
Left: 0.338+/-10.377 $\chi^2$/NDF: 65.9/47

Right: 1.260+/-13.773 $\chi^2$/NDF: 35.1/45

In: 13.432+/-12.035 $\chi^2$/NDF:37.7/42

Out: -10.836+/-11.430 $\chi^2$/NDF:61.2/50

All: 0.672+/-8.288 $\chi^2$/NDF: 101.0/93




Right In: 62.994+/-0.014 $\chi^2$/NDF: 322512.3/19

Left Out: 62.976+/-0.010 $\chi^2$/NDF:526859.8/24

Right Out: 63.275+/-0.013 $\chi^2$/NDF: 919760.9/25

Left In: 63.365+/-0.011 $\chi^2$/NDF:496926.2/22

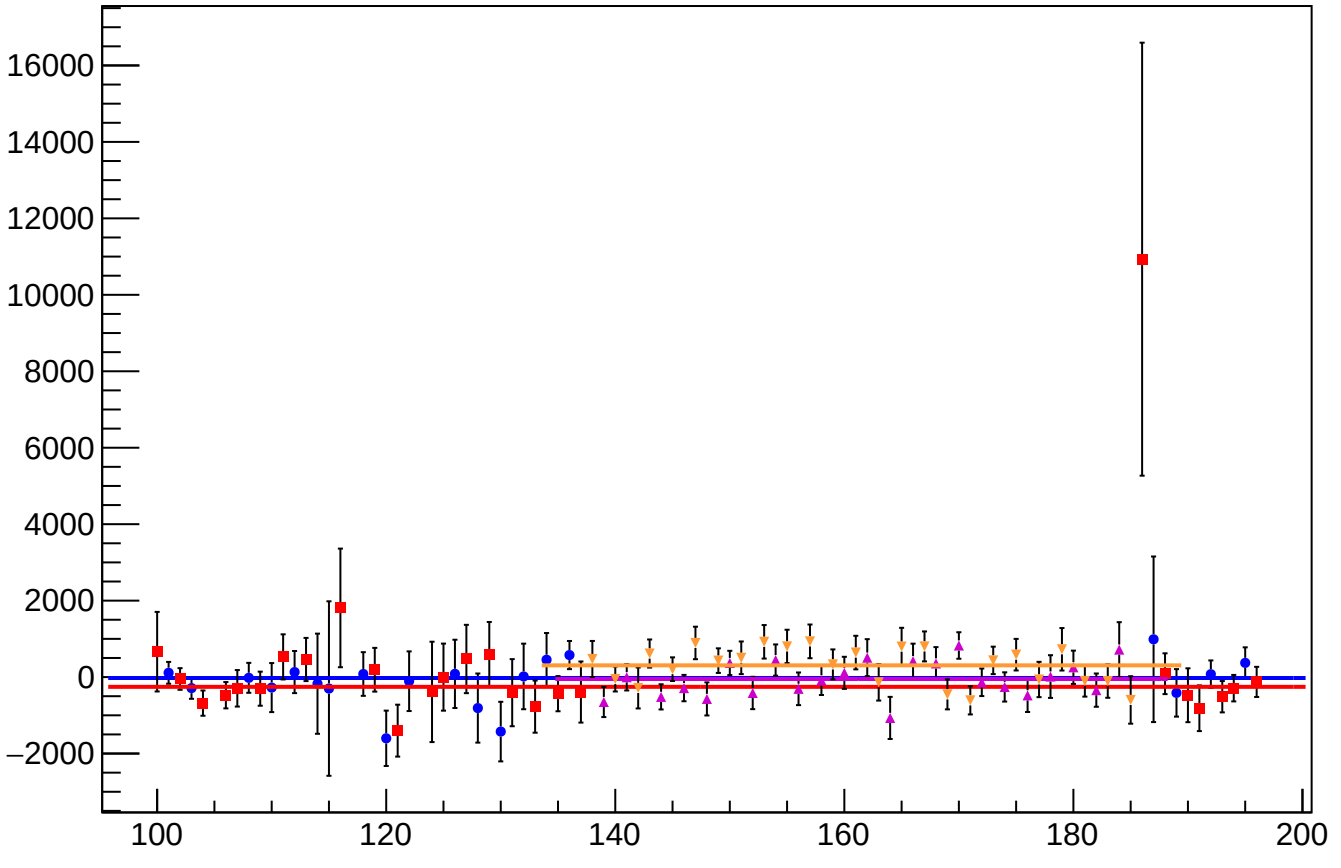
Left: 63.164+/-0.007 $\chi^2$/NDF: 1024488.5/47

Right: 63.146+/-0.010 $\chi^2$/NDF: 1242480.4/45

In: 63.235+/-0.009 $\chi^2$/NDF:819872.4/42

Out: 63.088+/-0.008 $\chi^2$/NDF:1446940.5/50

All: 63.158+/-0.006 $\chi^2$/NDF: 2266971.1/93




Right In: -23.895+/-114.669 $\chi^2$/NDF: 14.9/19

Left Out: 307.183+/-82.361 $\chi^2$/NDF:30.6/24

Right Out: -255.106+/-102.374 $\chi^2$/NDF: 20.4/25

Left In: -50.030+/-84.838 $\chi^2$/NDF:27.3/22

Left: 133.867+/-59.094 $\chi^2$/NDF: 67.0/47

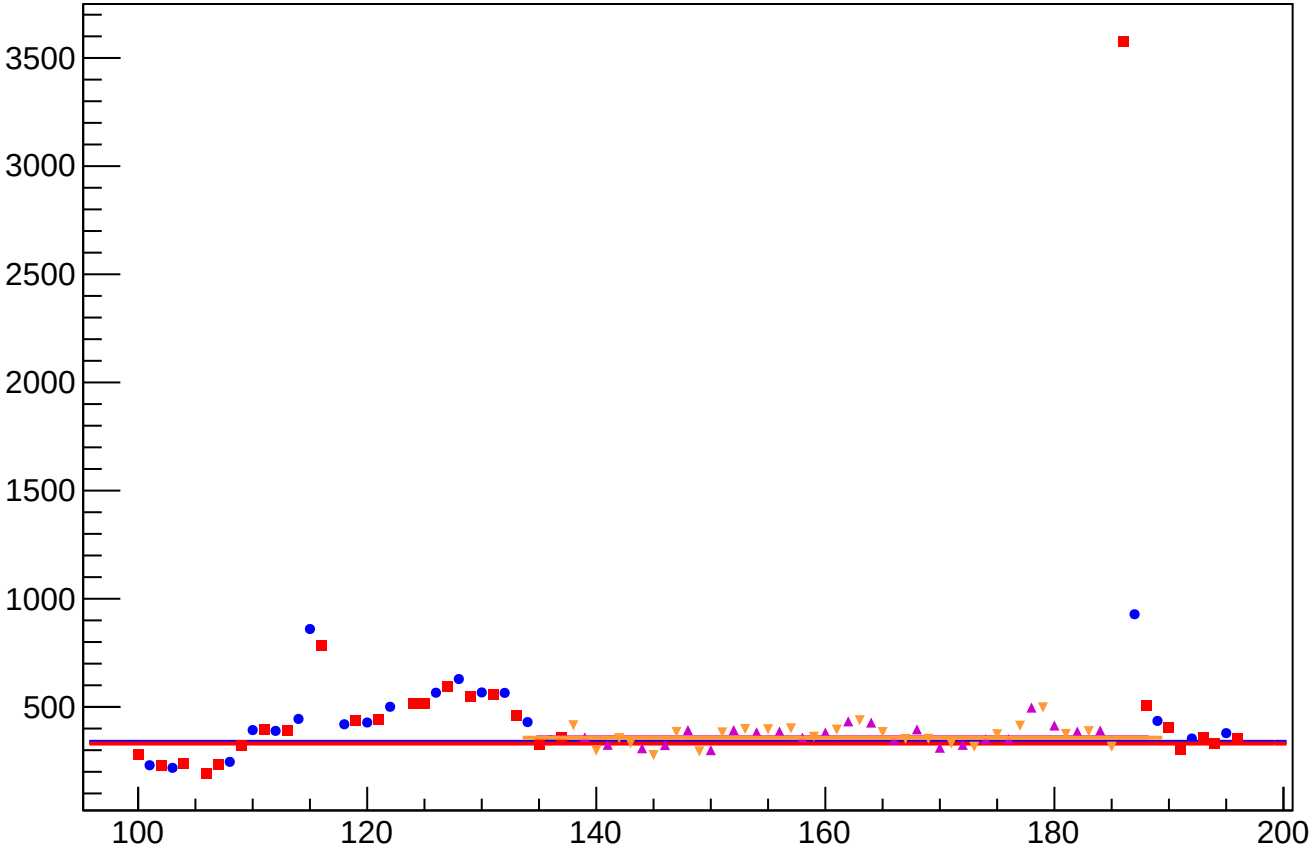
Right: -152.556+/-76.368 $\chi^2$/NDF: 37.5/45

In: -40.785+/-68.201 $\chi^2$/NDF:42.2/42

Out: 86.247+/-64.172 $\chi^2$/NDF:69.3/50

All: 26.594+/-46.736 $\chi^2$/NDF: 113.4/93

asym_sam_37_48_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 338.559+/-0.081 $\chi^2$/NDF: 1972378.1/19

Left Out: 357.731+/-0.058 $\chi^2$/NDF:683730.4/24

Right Out: 330.687+/-0.072 $\chi^2$/NDF: 2747704.6/25

Left In: 359.350+/-0.060 $\chi^2$/NDF:519759.9/22

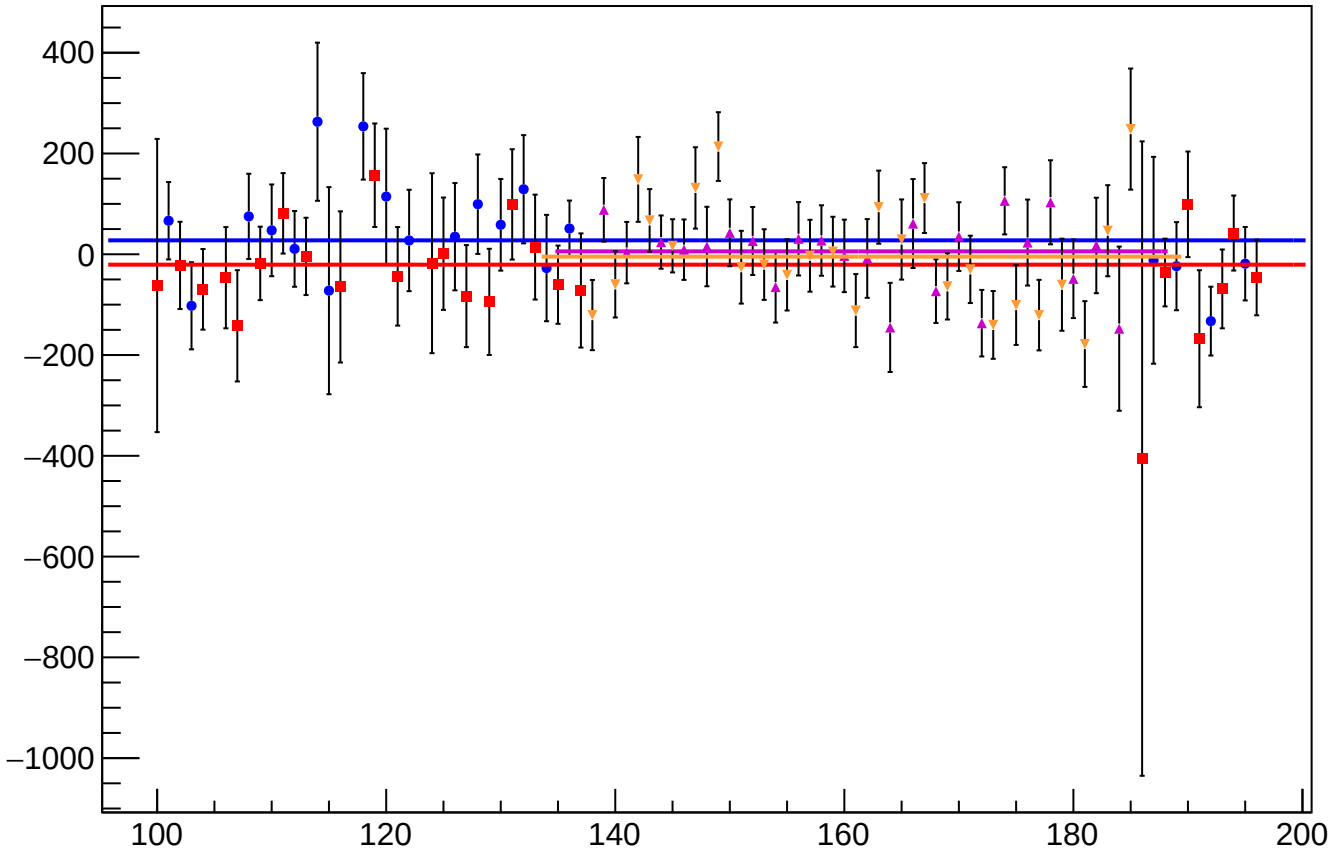
Left: 358.517+/-0.042 $\chi^2$/NDF: 1203865.1/47

Right: 334.178+/-0.054 $\chi^2$/NDF: 4725329.1/45

In: 351.995+/-0.048 $\chi^2$/NDF:2534626.4/42

Out: 347.105+/-0.045 $\chi^2$/NDF:3516169.8/50

All: 349.401+/-0.033 $\chi^2$/NDF: 6056250.8/93




Right In: 27.624+/-20.334 $\chi^2$/NDF: 18.7/19

Left Out: -4.748+/-14.432 $\chi^2$/NDF:47.4/24

Right Out: -20.640+/-18.730 $\chi^2$/NDF: 13.3/25

Left In: 5.775+/-14.931 $\chi^2$/NDF:18.3/22

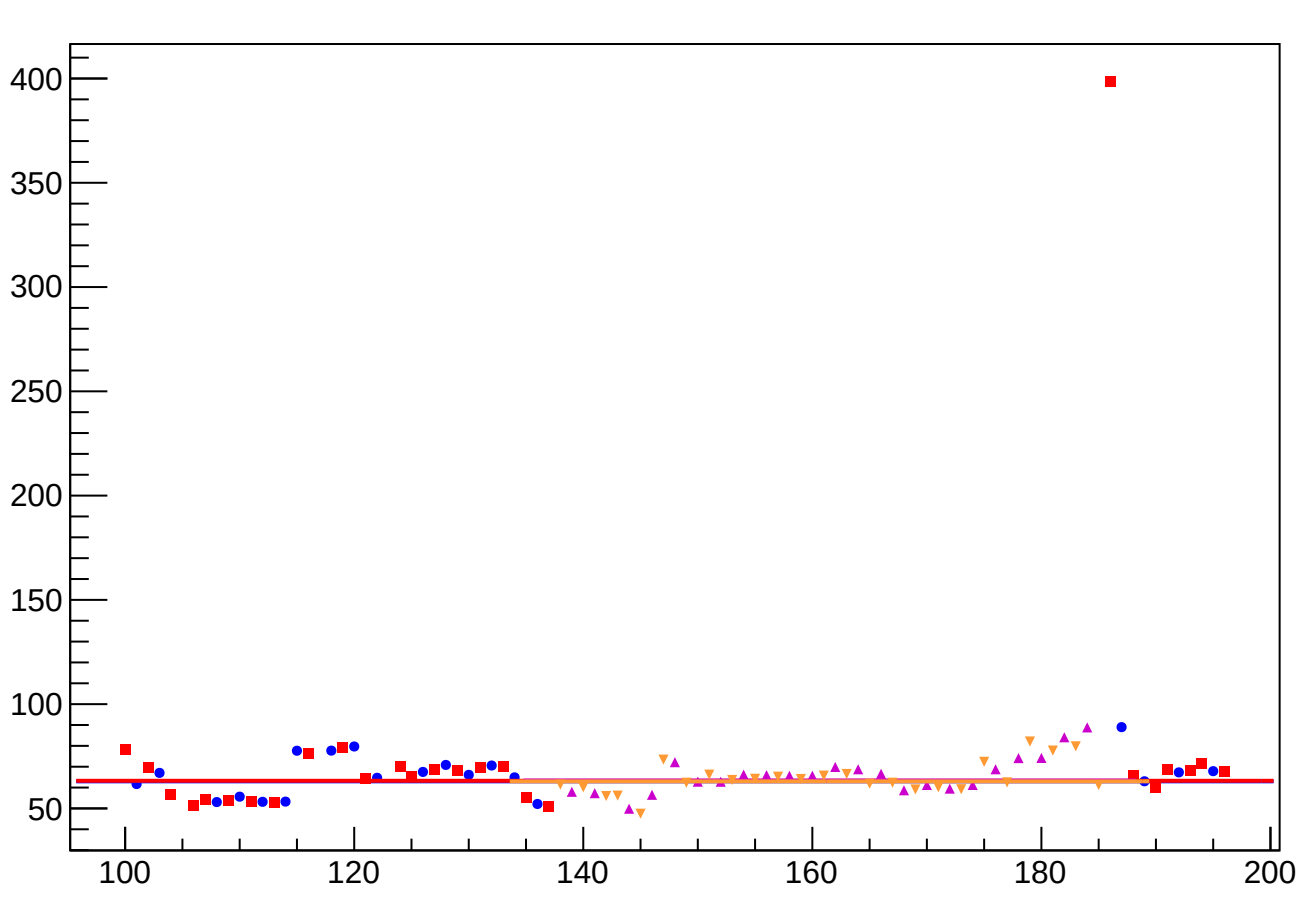
Left: 0.335+/-10.377 $\chi^2$/NDF: 65.9/47

Right: 1.513+/-13.776 $\chi^2$/NDF: 35.0/45

In: 13.429+/-12.035 $\chi^2$/NDF:37.7/42

Out: -10.668+/-11.432 $\chi^2$/NDF:61.1/50

All: 0.762+/-8.289 $\chi^2$/NDF: 100.9/93




Right In: 62.994+/-0.014 $\chi^2$/NDF: 322512.5/19

Left Out: 62.976+/-0.010 $\chi^2$/NDF:526859.8/24

Right Out: 63.249+/-0.013 $\chi^2$/NDF: 923868.3/25

Left In: 63.365+/-0.011 $\chi^2$/NDF:496926.2/22

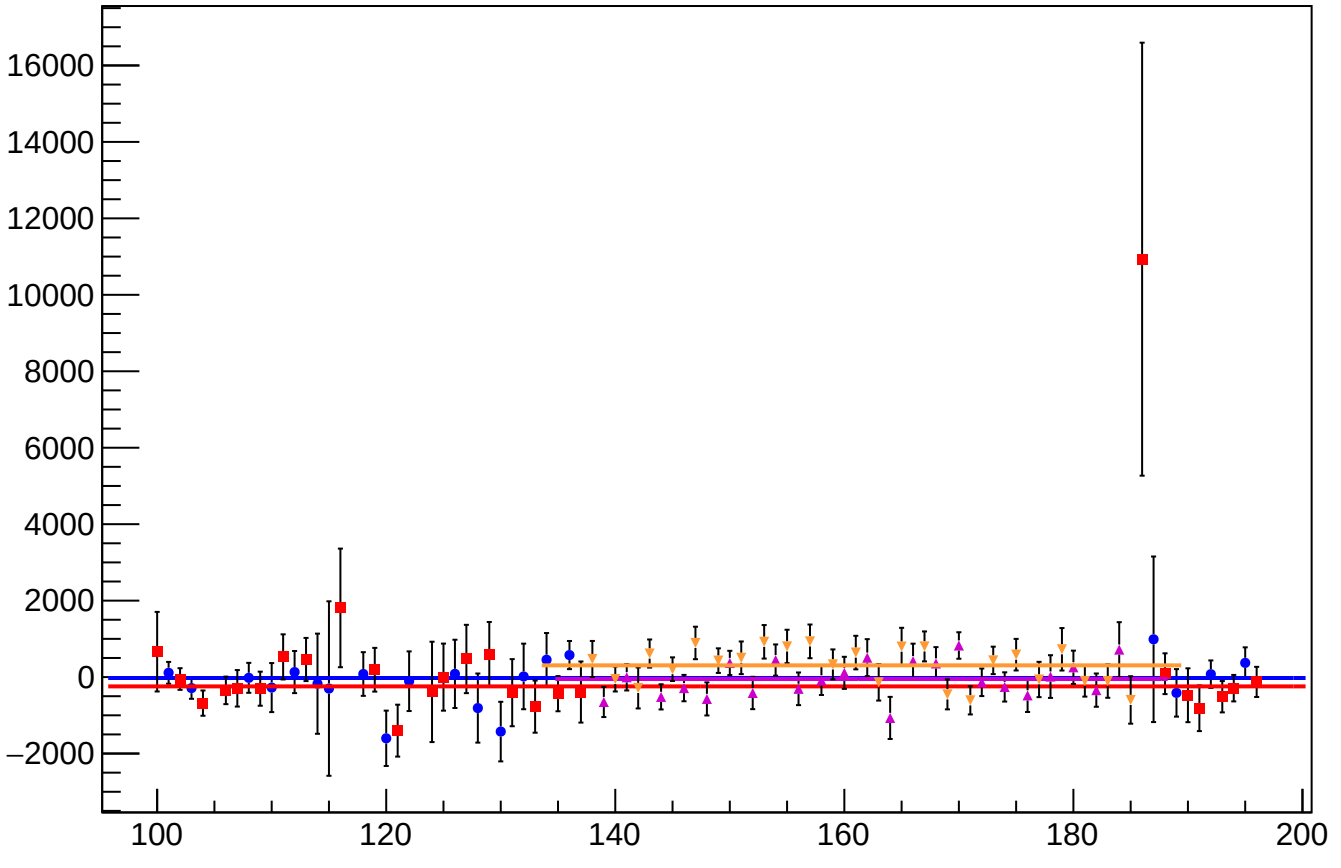
Left: 63.164+/-0.007 $\chi^2$/NDF: 1024488.6/47

Right: 63.132+/-0.010 $\chi^2$/NDF: 1246551.7/45

In: 63.235+/-0.009 $\chi^2$/NDF:819872.6/42

Out: 63.078+/-0.008 $\chi^2$/NDF:1450995.1/50

All: 63.153+/-0.006 $\chi^2$/NDF: 2271047.2/93




Right In: -23.885+/-114.669 $\chi^2$/NDF: 14.9/19

Left Out: 307.177+/-82.361 $\chi^2$/NDF:30.6/24

Right Out: -243.306+/-102.779 $\chi^2$/NDF: 20.0/25

Left In: -50.029+/-84.838 $\chi^2$/NDF:27.3/22

Left: 133.864+/-59.094 $\chi^2$/NDF: 67.0/47

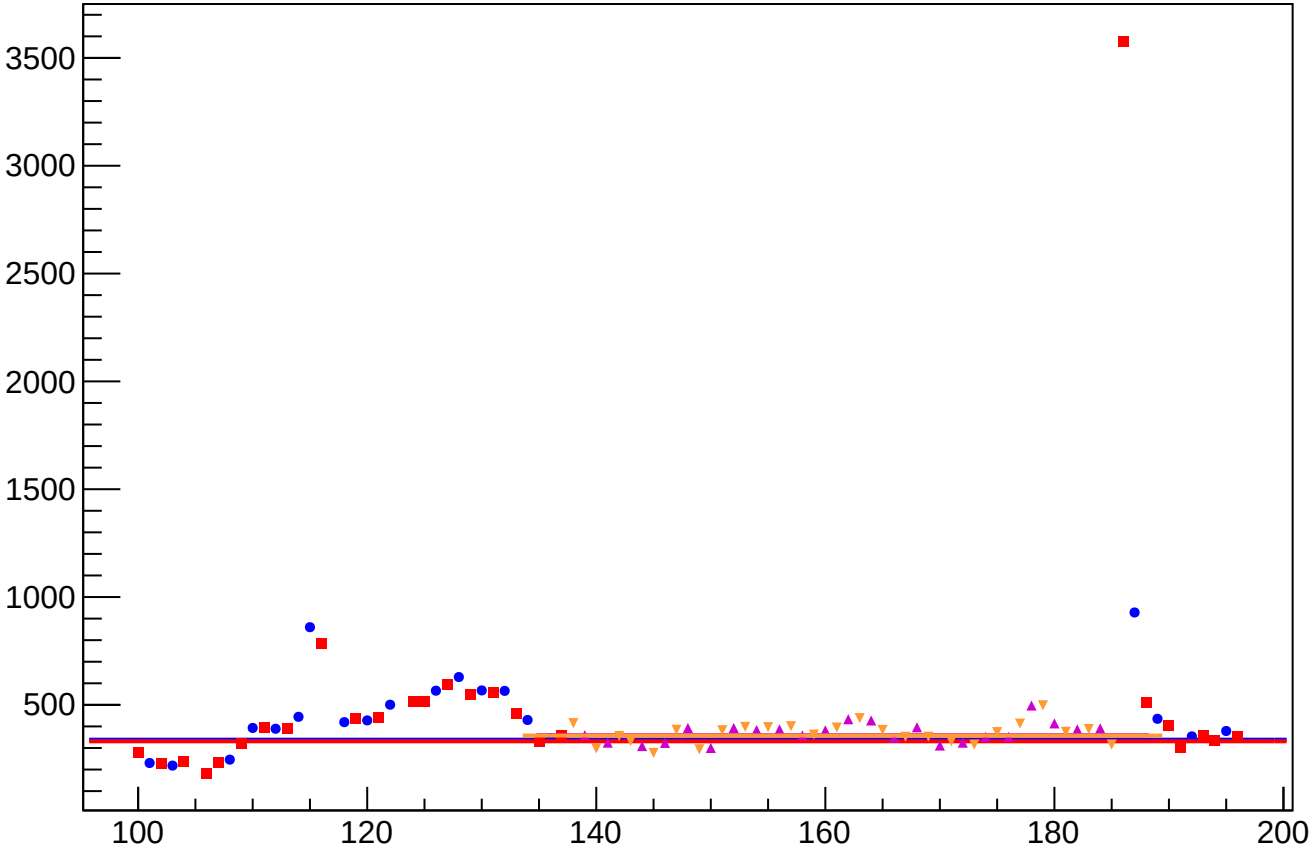
Right: -145.558+/-76.535 $\chi^2$/NDF: 36.9/45

In: -40.780+/-68.201 $\chi^2$/NDF:42.2/42

Out: 91.915+/-64.271 $\chi^2$/NDF:68.1/50

All: 29.500+/-46.774 $\chi^2$/NDF: 112.3/93

asym_sam_37_48_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 338.562+/-0.081 $\chi^2$/NDF: 1972307.5/19

Left Out: 357.732+/-0.058 $\chi^2$/NDF:683726.4/24

Right Out: 330.952+/-0.073 $\chi^2$/NDF: 2764849.0/25

Left In: 359.350+/-0.060 $\chi^2$/NDF:519762.7/22

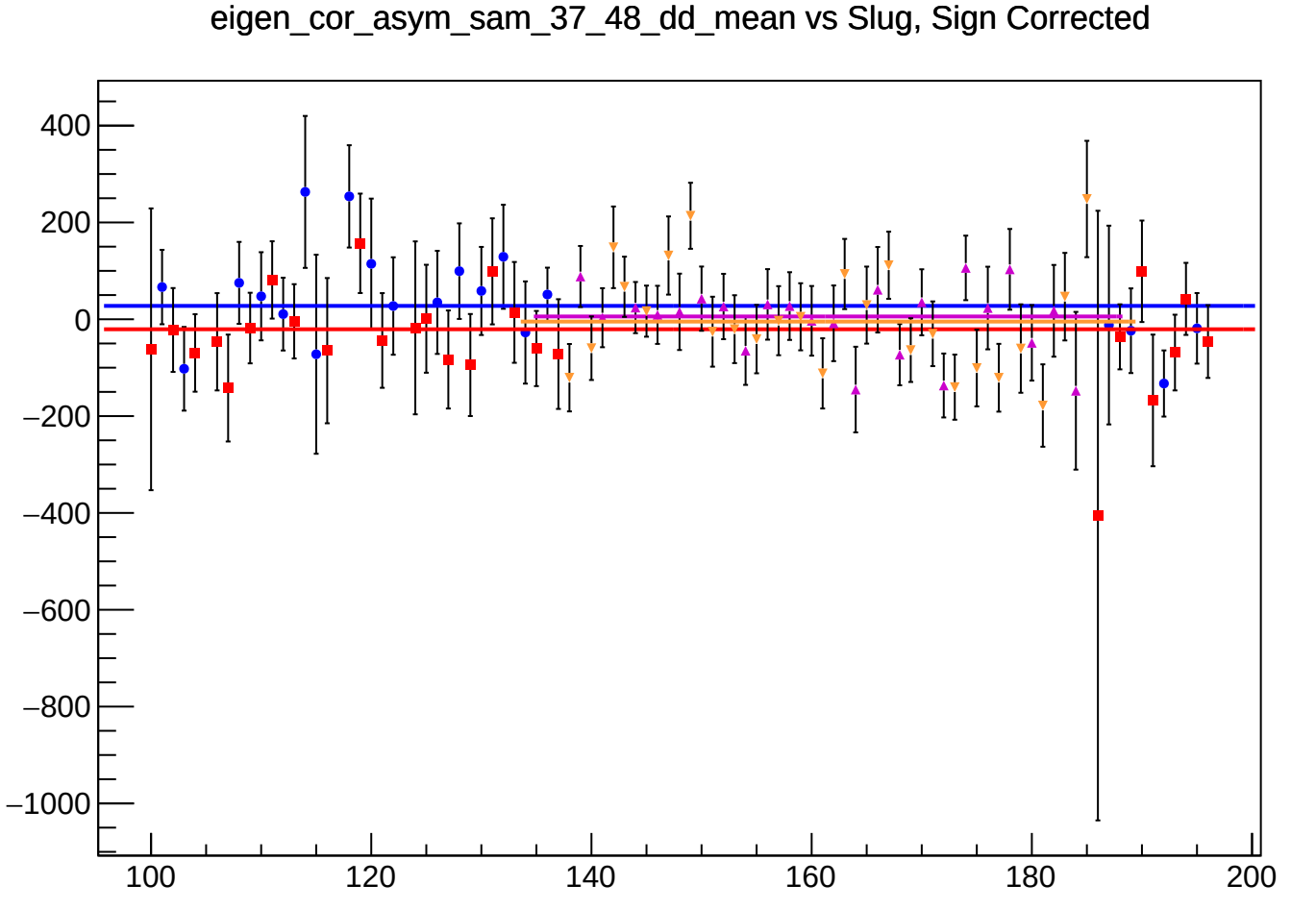
Left: 358.517+/-0.042 $\chi^2$/NDF: 1203863.9/47

Right: 334.342+/-0.054 $\chi^2$/NDF: 4742040.4/45

In: 351.996+/-0.048 $\chi^2$/NDF:2534549.1/42

Out: 347.260+/-0.045 $\chi^2$/NDF:3531256.0/50

All: 349.488+/-0.033 $\chi^2$/NDF: 6070914.3/93




Right In: 27.624+/-20.334 $\chi^2$/NDF: 18.7/19

Left Out: -4.748+/-14.432 $\chi^2$/NDF:47.4/24

Right Out: -20.640+/-18.730 $\chi^2$/NDF: 13.3/25

Left In: 5.775+/-14.931 $\chi^2$/NDF:18.3/22

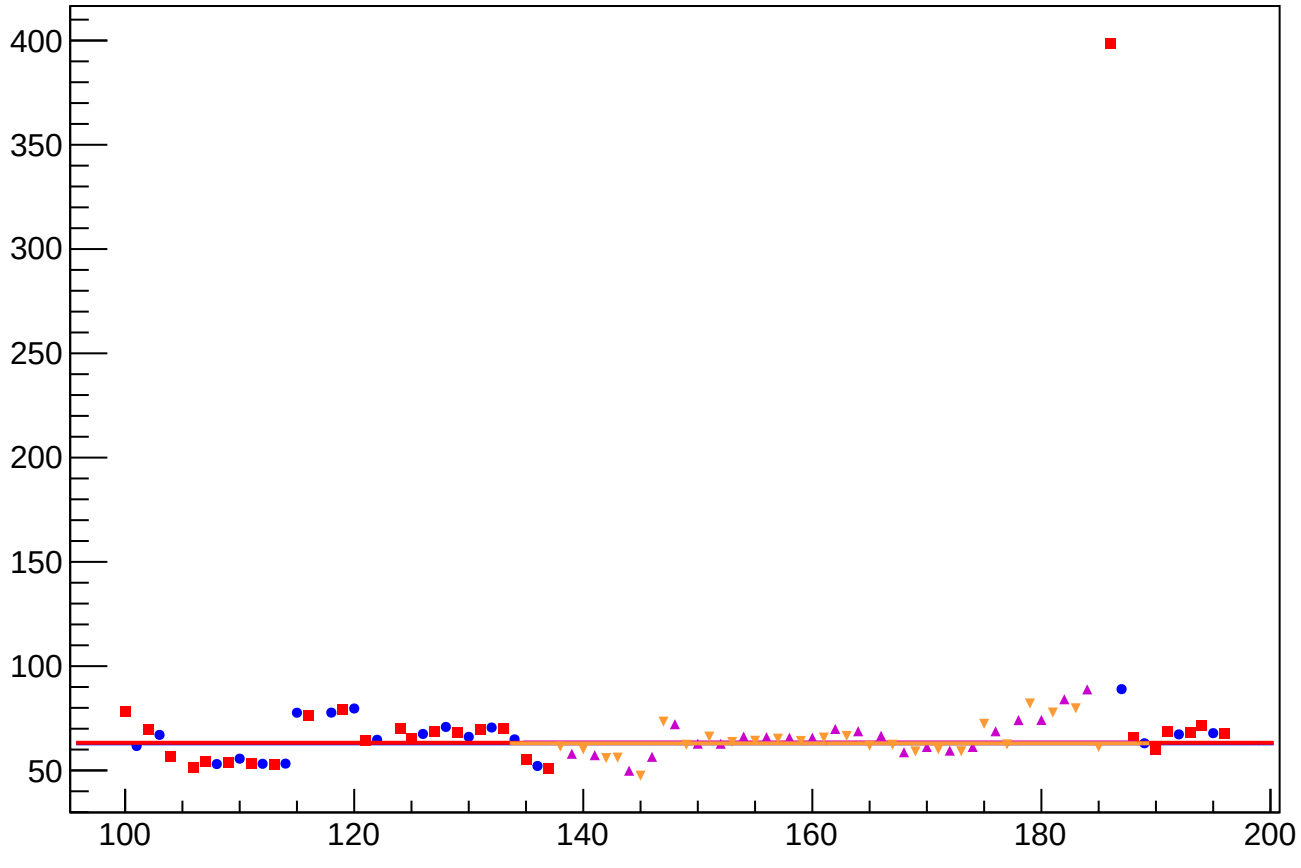
Left: 0.335+/-10.377 $\chi^2$/NDF: 65.9/47

Right: 1.513+/-13.776 $\chi^2$/NDF: 35.0/45

In: 13.429+/-12.035 $\chi^2$/NDF:37.7/42

Out: -10.668+/-11.432 $\chi^2$/NDF:61.1/50

All: 0.762+/-8.289 $\chi^2$/NDF: 100.9/93




Right In: 62.994+/-0.014 $\chi^2$/NDF: 322512.5/19

Left Out: 62.976+/-0.010 $\chi^2$/NDF:526859.8/24

Right Out: 63.249+/-0.013 $\chi^2$/NDF: 923868.3/25

Left In: 63.365+/-0.011 $\chi^2$/NDF:496926.2/22

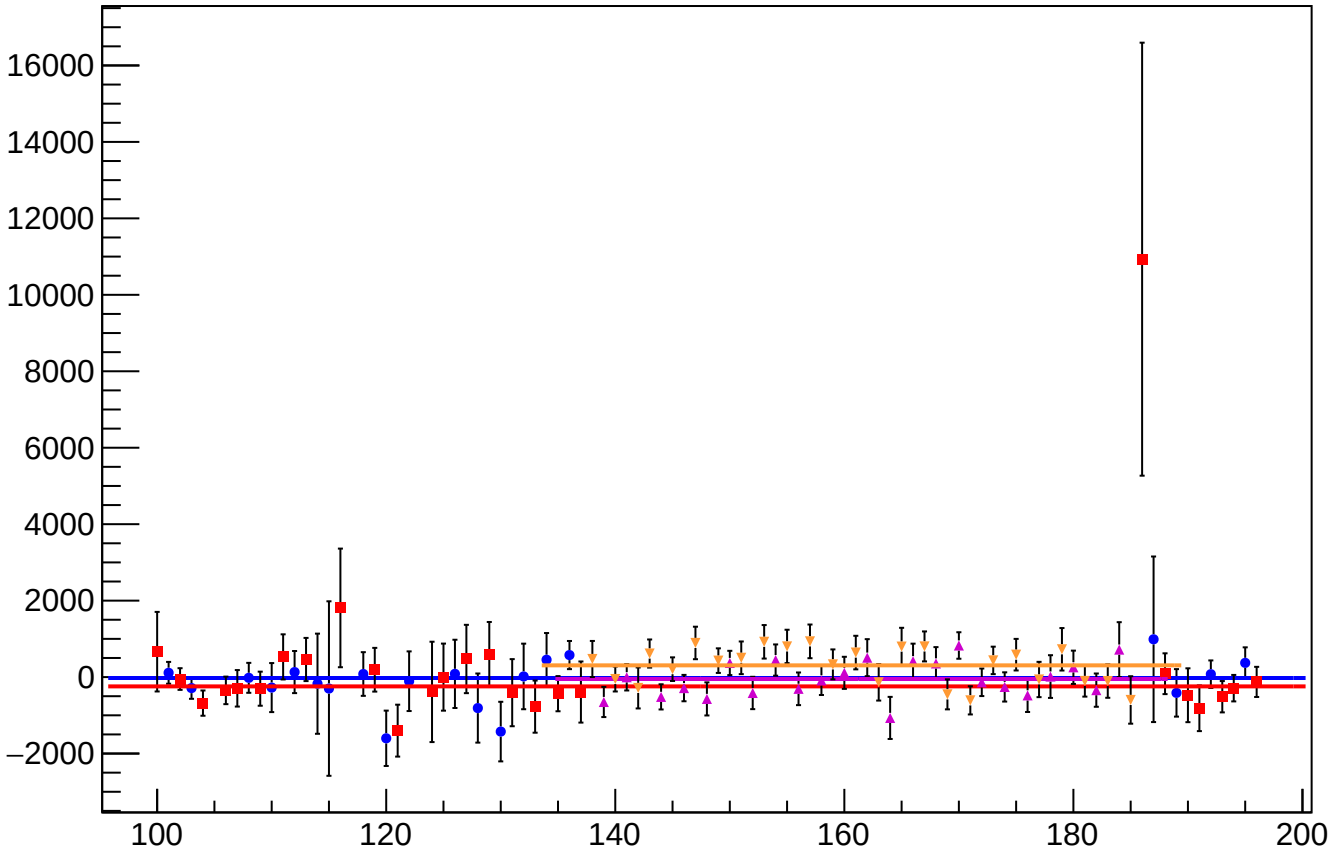
Left: 63.164+/-0.007 $\chi^2$/NDF: 1024488.6/47

Right: 63.132+/-0.010 $\chi^2$/NDF: 1246551.7/45

In: 63.235+/-0.009 $\chi^2$/NDF:819872.6/42

Out: 63.078+/-0.008 $\chi^2$/NDF:1450995.1/50

All: 63.153+/-0.006 $\chi^2$/NDF: 2271047.2/93




Right In: -23.885+/-114.669 $\chi^2$/NDF: 14.9/19

Left Out: 307.177+/-82.361 $\chi^2$/NDF:30.6/24

Right Out: -243.306+/-102.779 $\chi^2$/NDF: 20.0/25

Left In: -50.029+/-84.838 $\chi^2$/NDF:27.3/22

Left: 133.864+/-59.094 $\chi^2$/NDF: 67.0/47

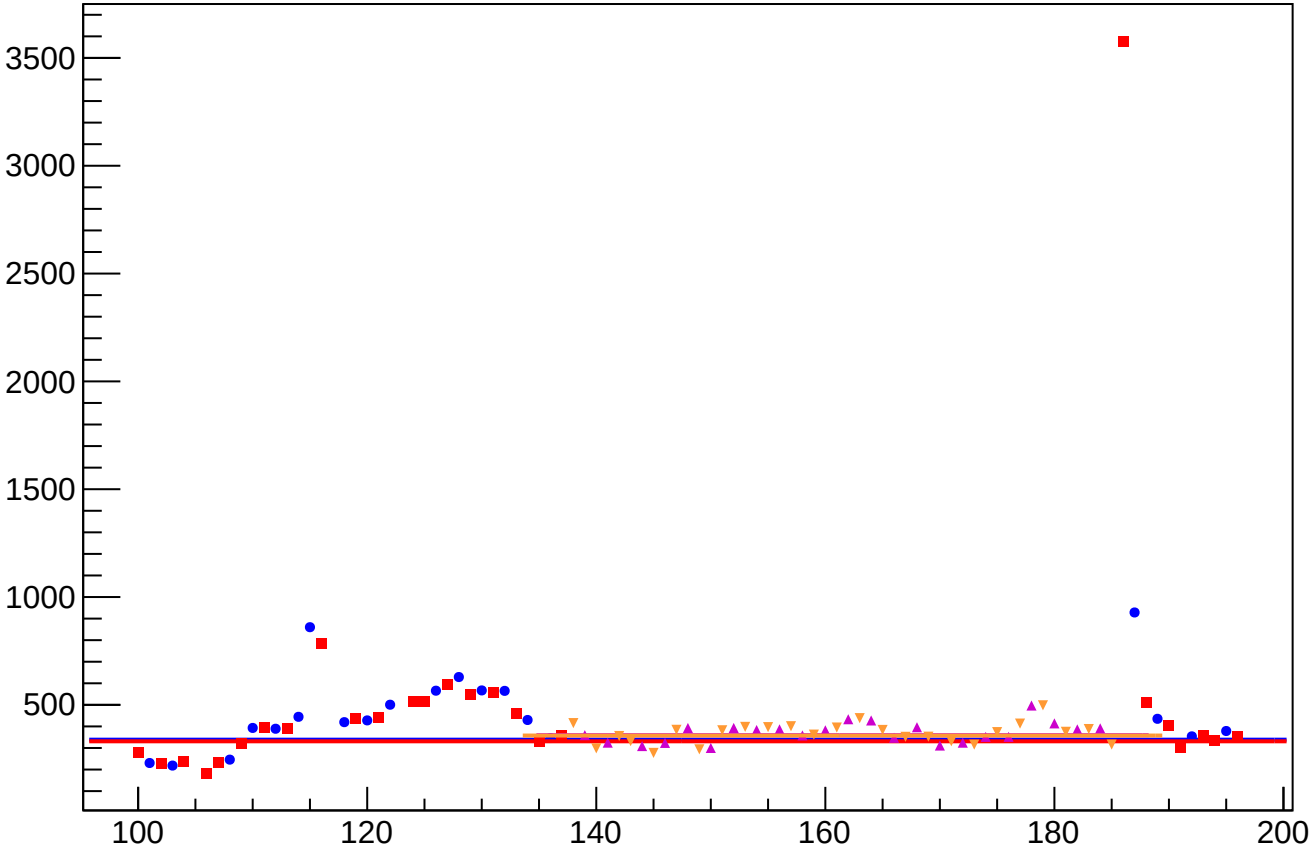
Right: -145.558+/-76.535 $\chi^2$/NDF: 36.9/45

In: -40.780+/-68.201 $\chi^2$/NDF:42.2/42

Out: 91.915+/-64.271 $\chi^2$/NDF:68.1/50

All: 29.500+/-46.774 $\chi^2$/NDF: 112.3/93

asym_sam_37_48_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 338.562+/-0.081 $\chi^2$/NDF: 1972307.5/19

Left Out: 357.732+/-0.058 $\chi^2$/NDF:683726.4/24

Right Out: 330.952+/-0.073 $\chi^2$/NDF: 2764849.0/25

Left In: 359.350+/-0.060 $\chi^2$/NDF:519762.7/22

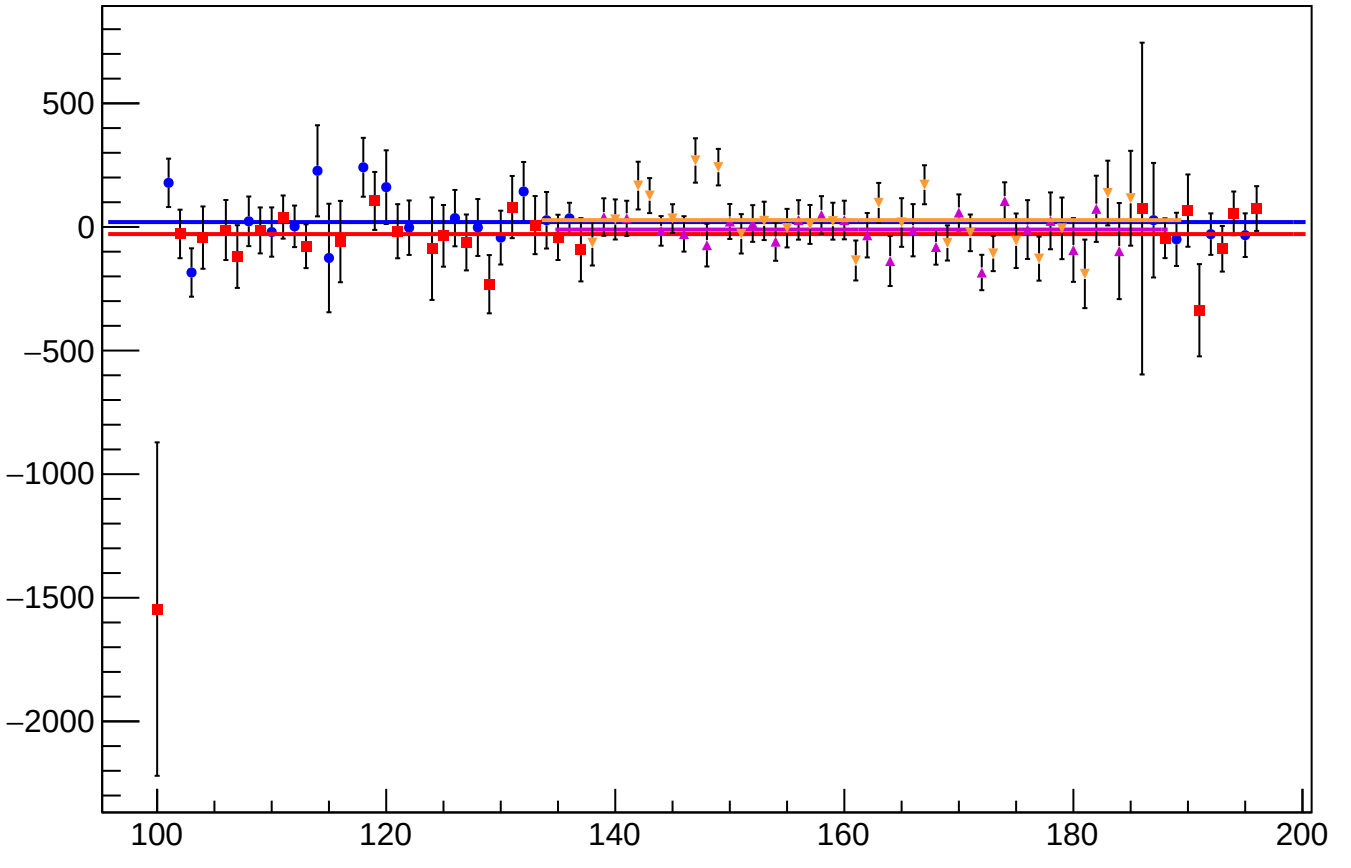
Left: 358.517+/-0.042 $\chi^2$/NDF: 1203863.9/47

Right: 334.342+/-0.054 $\chi^2$/NDF: 4742040.4/45

In: 351.996+/-0.048 $\chi^2$/NDF:2534549.1/42

Out: 347.260+/-0.045 $\chi^2$/NDF:3531256.0/50

All: 349.488+/-0.033 $\chi^2$/NDF: 6070914.3/93




Right In: 19.739+/-23.516 $\chi^2$/NDF: 15.9/19

Left Out: 27.627+/-16.742 $\chi^2$/NDF:42.4/24

Right Out: -28.822+/-22.250 $\chi^2$/NDF: 18.0/25

Left In: -10.521+/-17.225 $\chi^2$/NDF:16.1/22

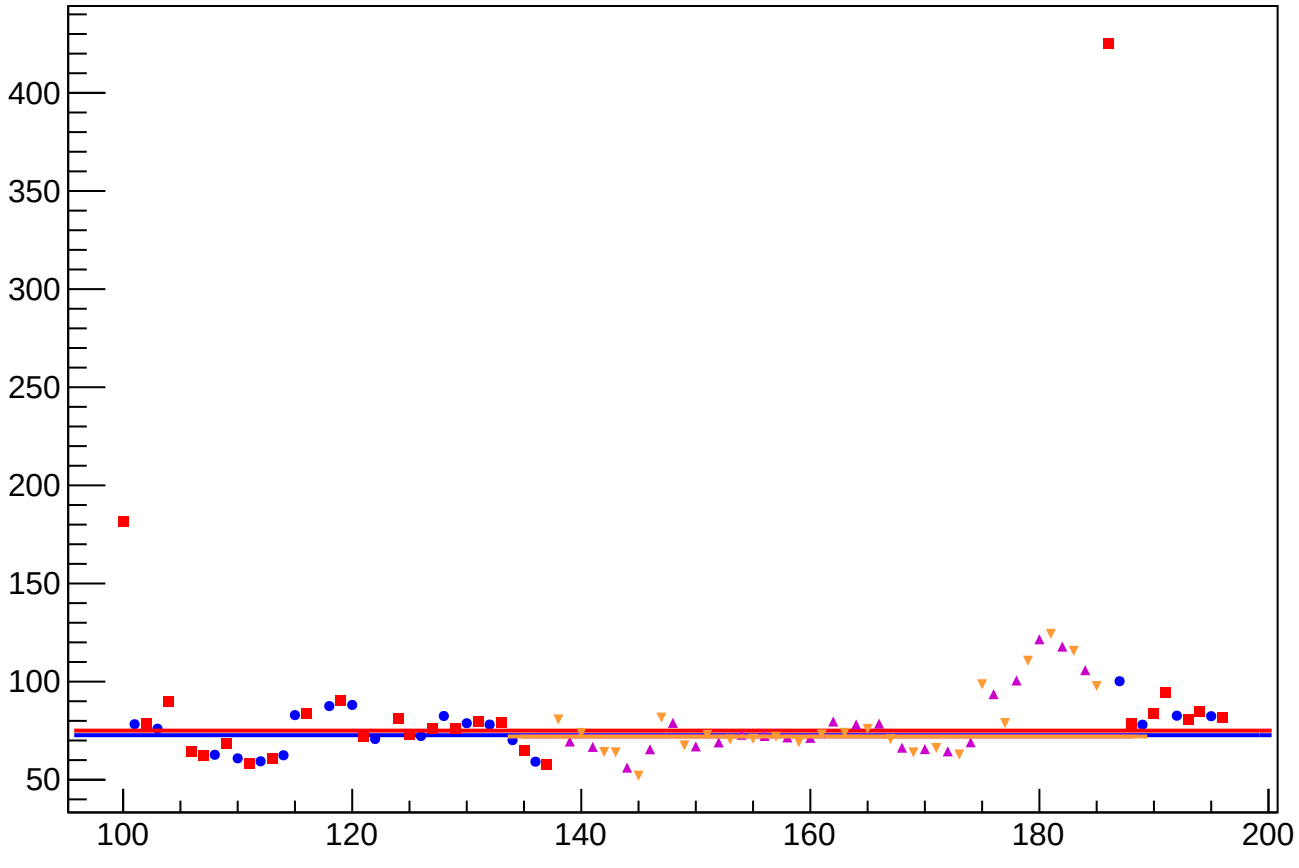
Left: 9.095+/-12.006 $\chi^2$/NDF: 60.9/47

Right: -5.883+/-16.162 $\chi^2$/NDF: 36.2/45

In: 0.045+/-13.896 $\chi^2$/NDF:33.1/42

Out: 7.221+/-13.378 $\chi^2$/NDF:64.5/50

All: 3.769+/-9.638 $\chi^2$/NDF: 97.7/93




Right In: 72.697+/-0.017 $\chi^2$/NDF: 372771.5/19

Left Out: 72.041+/-0.012 $\chi^2$/NDF:1269471.8/24

Right Out: 75.030+/-0.016 $\chi^2$/NDF: 981097.3/25

Left In: 72.092+/-0.012 $\chi^2$/NDF:1058857.2/22

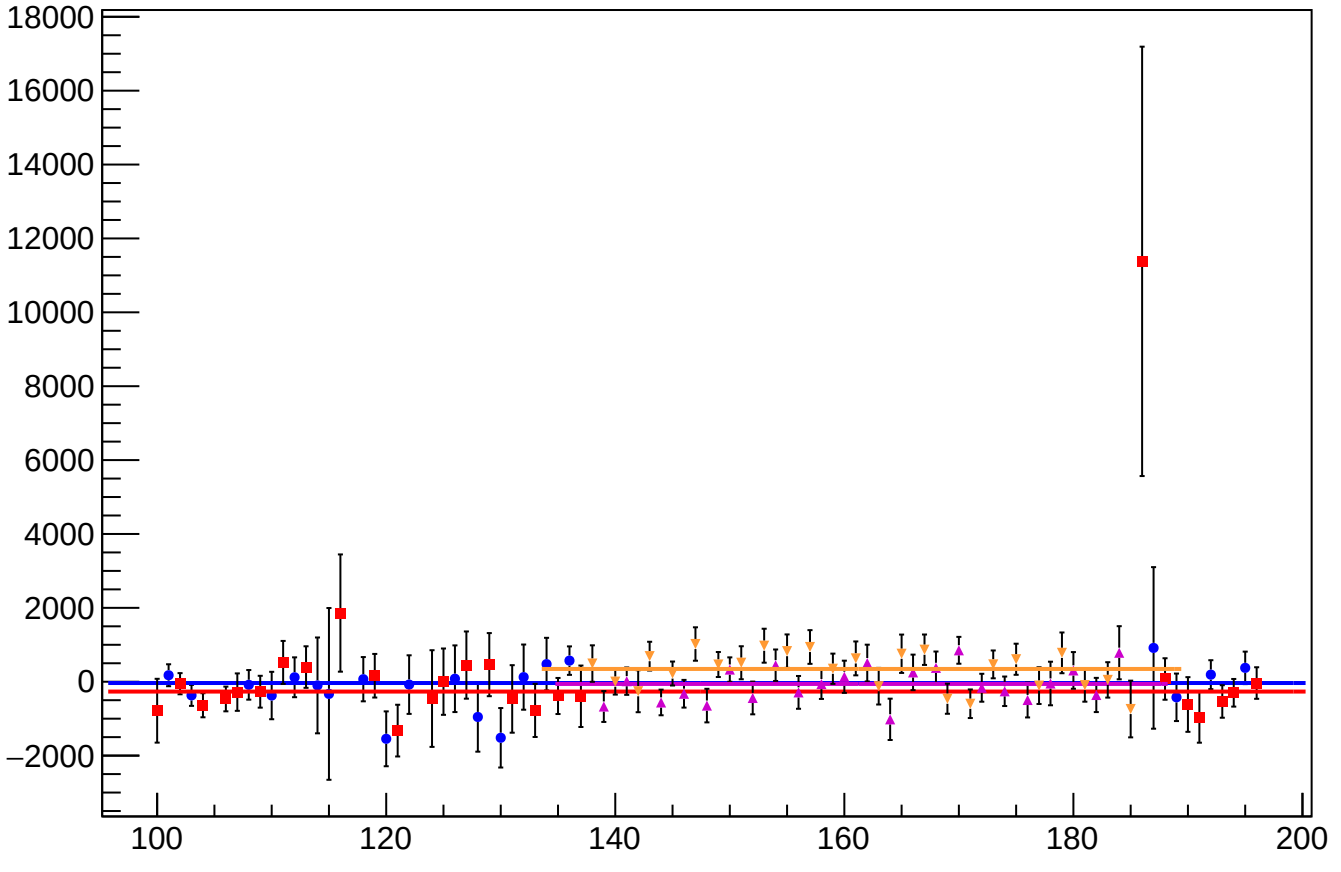
Left: 72.066+/-0.008 $\chi^2$/NDF: 2328338.2/47

Right: 73.928+/-0.011 $\chi^2$/NDF: 1364249.2/45

In: 72.304+/-0.010 $\chi^2$/NDF:1432490.9/42

Out: 73.121+/-0.009 $\chi^2$/NDF:2273613.9/50

All: 72.728+/-0.007 $\chi^2$/NDF: 3709699.4/93




Right In: -34.697+/-118.703 $\chi^2$/NDF: 15.6/19

Left Out: 345.973+/-86.822 $\chi^2$/NDF:28.9/24

Right Out: -266.406+/-104.993 $\chi^2$/NDF: 18.8/25

Left In: -59.908+/-89.411 $\chi^2$/NDF:25.8/22

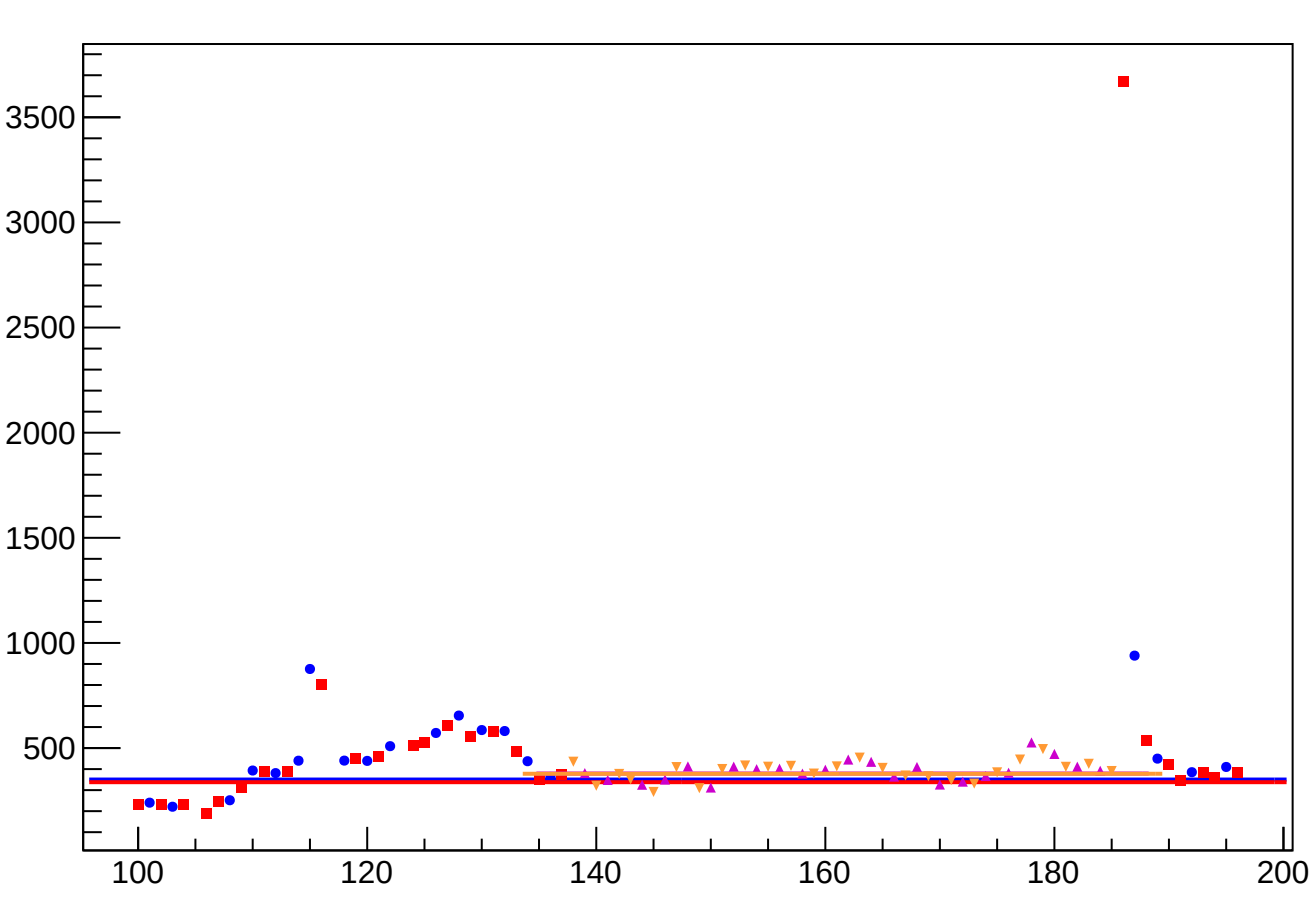
Left: 148.994+/-62.288 $\chi^2$/NDF: 65.4/47

Right: -164.700+/-78.644 $\chi^2$/NDF: 36.5/45

In: -50.782+/-71.418 $\chi^2$/NDF:41.5/42

Out: 97.278+/-66.909 $\chi^2$/NDF:68.0/50

All: 28.069+/-48.828 $\chi^2$/NDF: 111.7/93




Right In: 350.354+/-0.084 $\chi^2$/NDF: 2005458.7/19

Left Out: 377.797+/-0.061 $\chi^2$/NDF:636714.9/24

Right Out: 337.757+/-0.074 $\chi^2$/NDF: 2971121.4/25

Left In: 378.869+/-0.063 $\chi^2$/NDF:527685.1/22

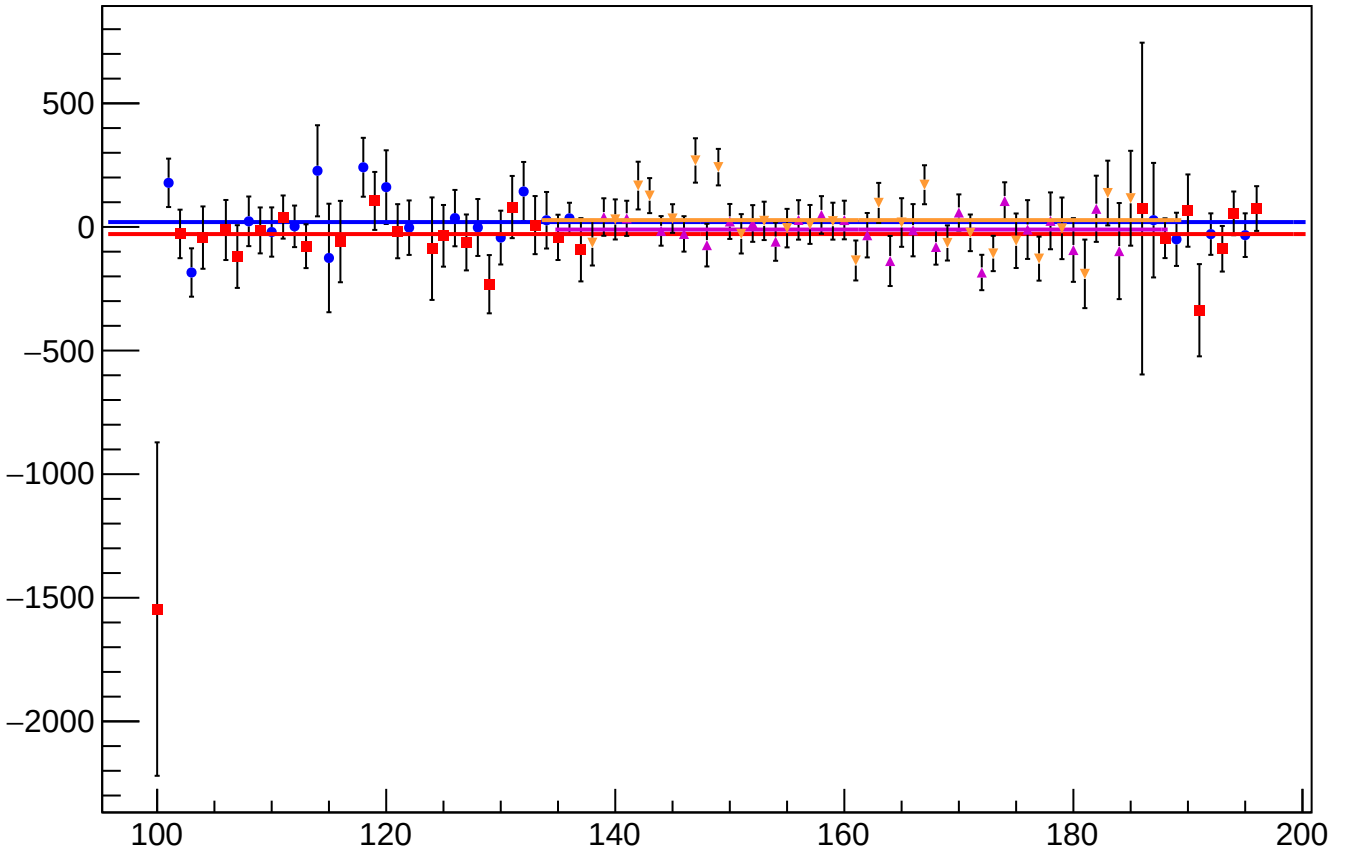
Left: 378.317+/-0.044 $\chi^2$/NDF: 1164548.1/47

Right: 343.286+/-0.056 $\chi^2$/NDF: 4989217.3/45

In: 368.547+/-0.051 $\chi^2$/NDF:2606780.8/42

Out: 361.536+/-0.047 $\chi^2$/NDF:3780578.9/50

All: 364.813+/-0.035 $\chi^2$/NDF: 6397624.7/93




Right In: 19.739+/-23.516 $\chi^2$/NDF: 15.9/19

Left Out: 27.626+/-16.742 $\chi^2$/NDF:42.4/24

Right Out: -28.822+/-22.250 $\chi^2$/NDF: 18.0/25

Left In: -10.521+/-17.225 $\chi^2$/NDF:16.1/22

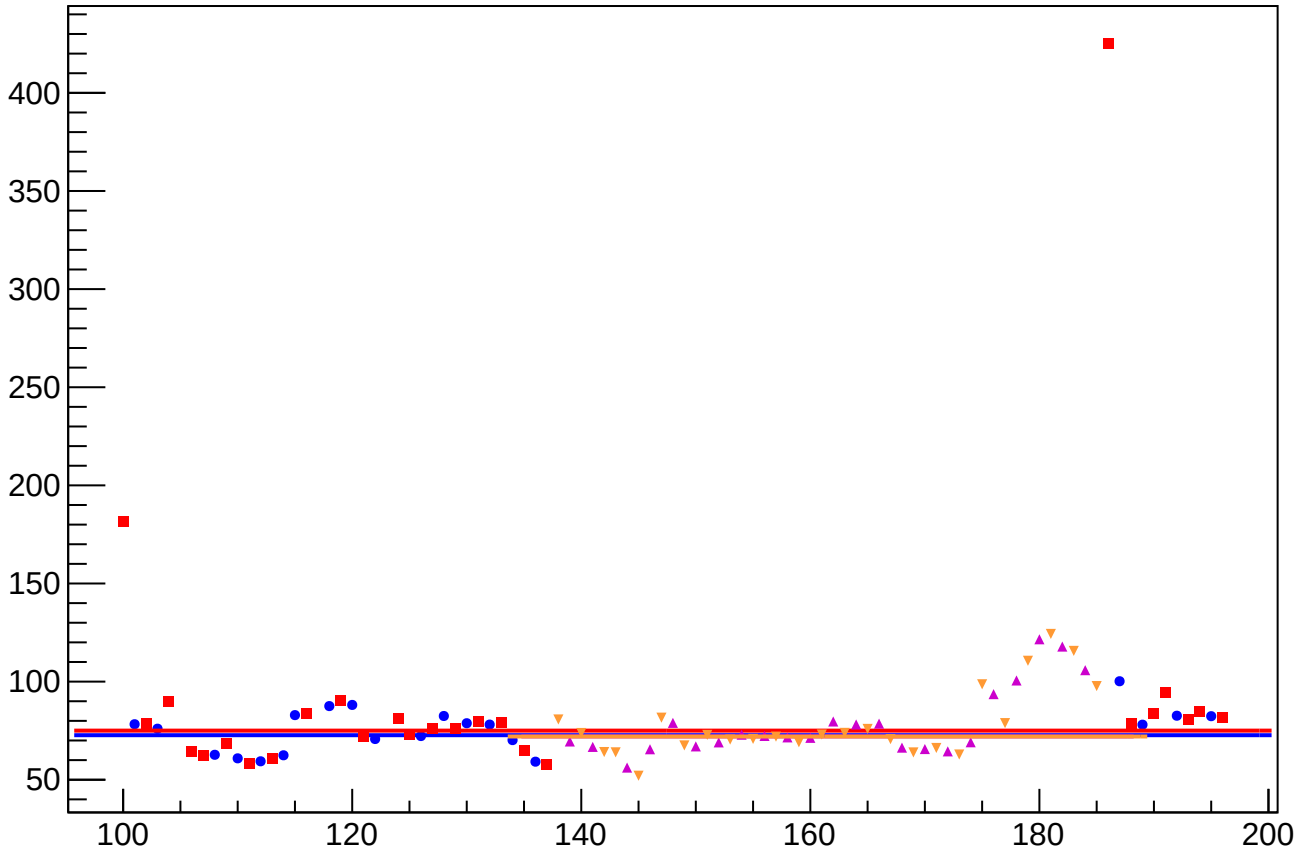
Left: 9.095+/-12.006 $\chi^2$/NDF: 60.9/47

Right: -5.884+/-16.162 $\chi^2$/NDF: 36.2/45

In: 0.045+/-13.896 $\chi^2$/NDF:33.1/42

Out: 7.220+/-13.378 $\chi^2$/NDF:64.5/50

All: 3.769+/-9.638 $\chi^2$/NDF: 97.7/93




Right In: 72.697+/-0.017 $\chi^2$/NDF: 372769.5/19

Left Out: 72.041+/-0.012 $\chi^2$/NDF:1269479.1/24

Right Out: 75.030+/-0.016 $\chi^2$/NDF: 981095.7/25

Left In: 72.092+/-0.012 $\chi^2$/NDF:1058847.4/22

Left: 72.066+/-0.008 $\chi^2$/NDF: 2328335.7/47

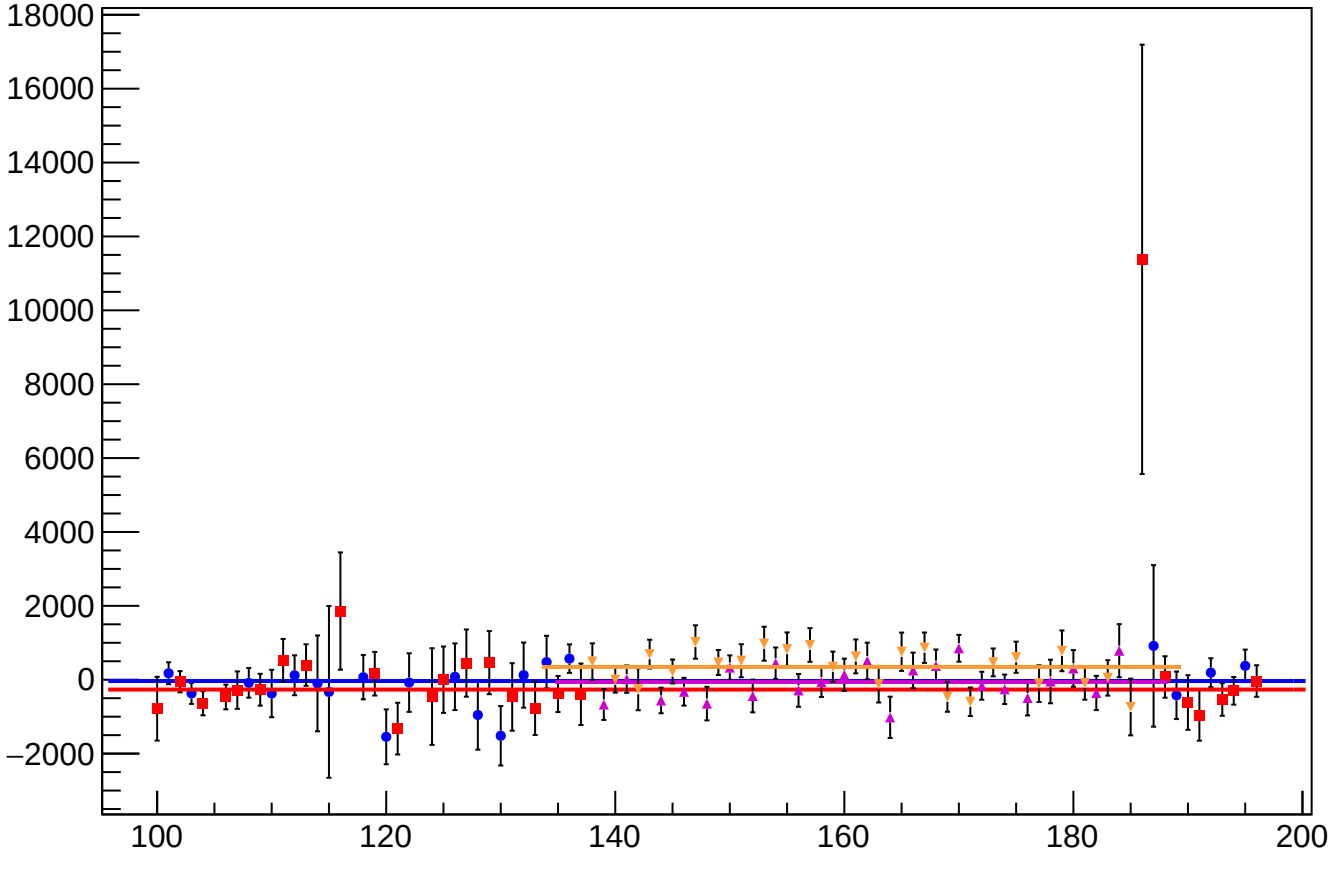
Right: 73.928+/-0.011 $\chi^2$/NDF: 1364244.6/45

In: 72.303+/-0.010 $\chi^2$/NDF:1432479.5/42

Out: 73.121+/-0.009 $\chi^2$/NDF:2273619.4/50

All: 72.728+/-0.007 $\chi^2$/NDF: 3709693.2/93

asym_sam_37_48_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -34.698+/-118.703 $\chi^2$/NDF: 15.6/19

Left Out: 345.972+/-86.822 $\chi^2$/NDF:28.9/24

Right Out: -266.406+/-104.993 $\chi^2$/NDF: 18.8/25

Left In: -59.907+/-89.411 $\chi^2$/NDF:25.8/22

Left: 148.994+/-62.288 $\chi^2$/NDF: 65.4/47

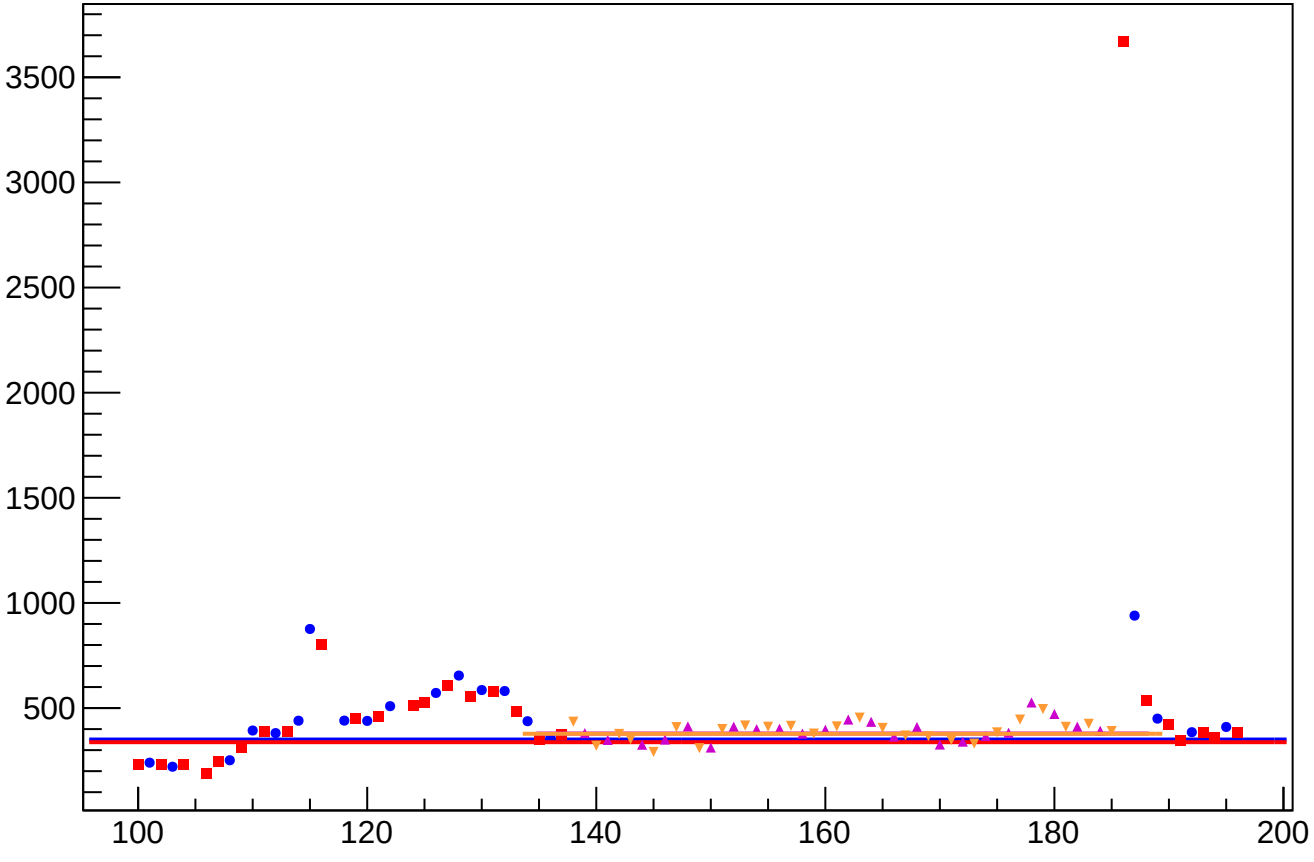
Right: -164.700+/-78.644 $\chi^2$/NDF: 36.5/45

In: -50.782+/-71.418 $\chi^2$/NDF:41.5/42

Out: 97.277+/-66.909 $\chi^2$/NDF:68.0/50

All: 28.069+/-48.828 $\chi^2$/NDF: 111.7/93

asym_sam_37_48_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 350.354+/-0.084 $\chi^2$/NDF: 2005455.0/19

Left Out: 377.796+/-0.061 $\chi^2$/NDF:636714.9/24

Right Out: 337.757+/-0.074 $\chi^2$/NDF: 2971110.9/25

Left In: 378.869+/-0.063 $\chi^2$/NDF:527680.9/22

Left: 378.317+/-0.044 $\chi^2$/NDF: 1164543.9/47

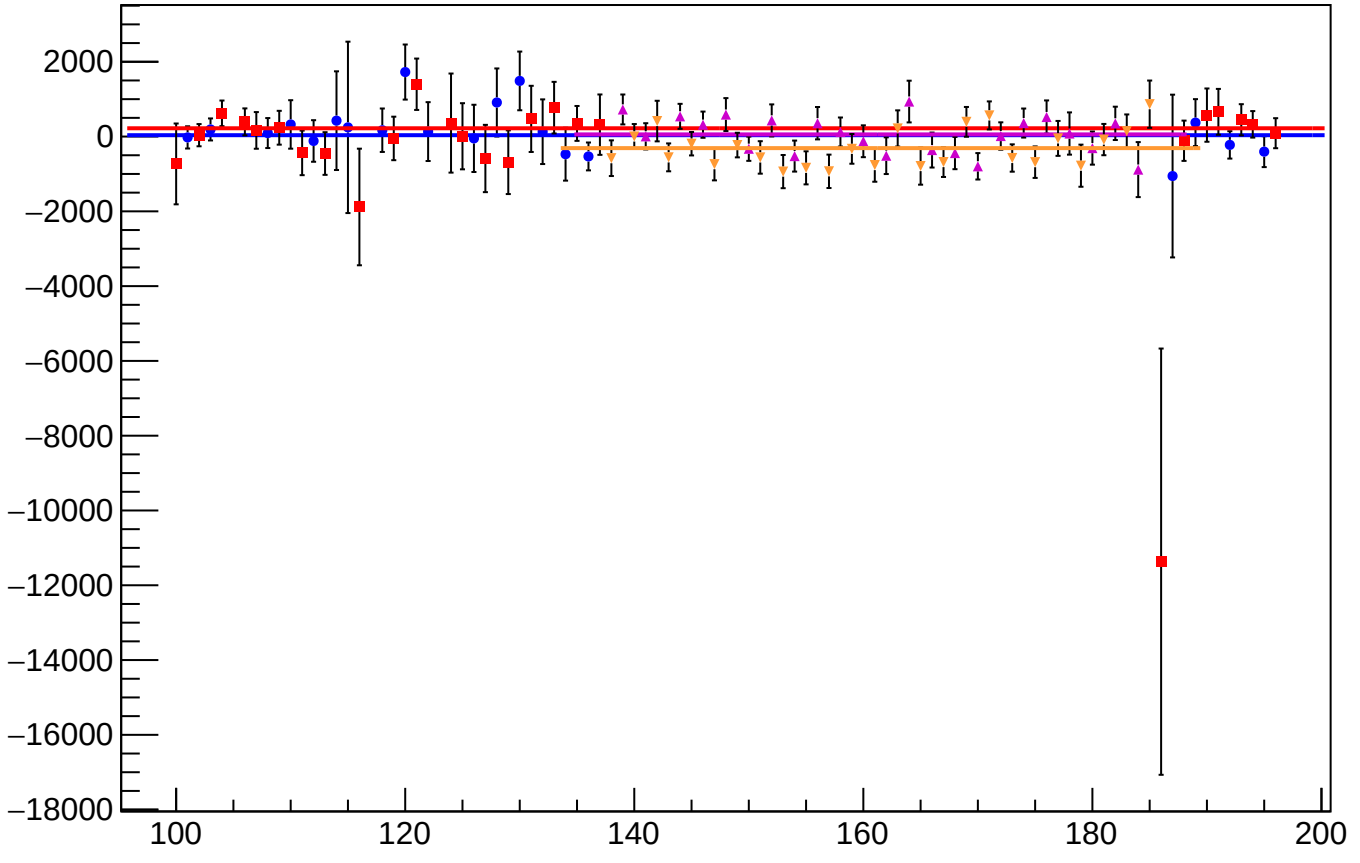
Right: 343.286+/-0.056 $\chi^2$/NDF: 4989203.5/45

In: 368.547+/-0.051 $\chi^2$/NDF:2606771.1/42

Out: 361.536+/-0.047 $\chi^2$/NDF:3780567.0/50

All: 364.813+/-0.035 $\chi^2$/NDF: 6397603.4/93

# asym_sam_37_48_dd_mean vs Slug, Sign Corrected




Right In: 36.476+/-117.403 $\chi^2$/NDF: 15.4/19

Left Out: -309.330+/-83.706 $\chi^2$/NDF:30.0/24

Right Out: 221.456+/-104.936 $\chi^2$/NDF: 19.0/25

Left In: 57.543+/-86.225 $\chi^2$/NDF:28.0/22

Left: -131.331+/-60.060 $\chi^2$/NDF: 67.3/47

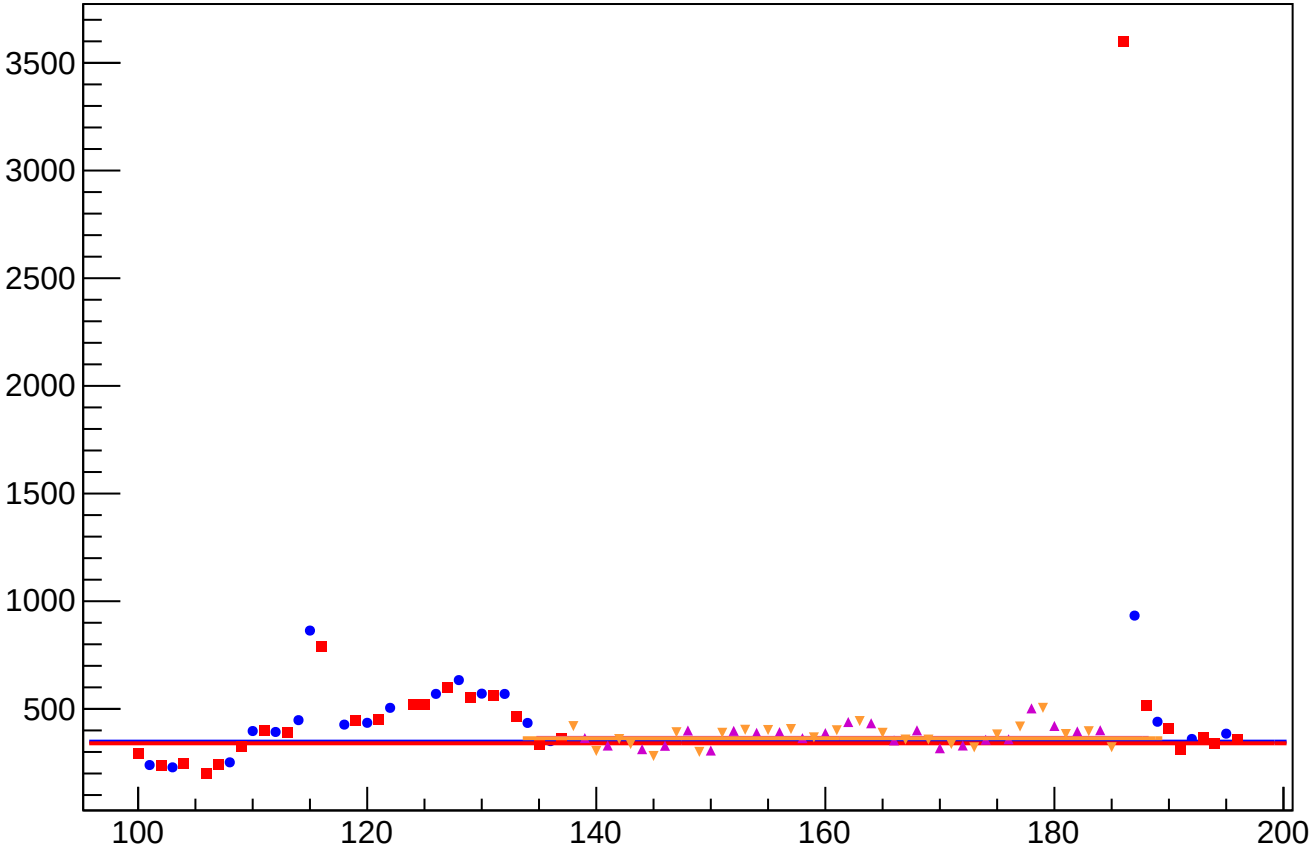
Right: 139.306+/-78.239 $\chi^2$/NDF: 35.7/45

In: 50.162+/-69.496 $\chi^2$/NDF:43.4/42

Out: -102.926+/-65.437 $\chi^2$/NDF:64.6/50

All: -30.983+/-47.641 $\chi^2$/NDF: 110.5/93

# asym_sam_37_48_dd_rms vs Slug, Sign Corrected




Right In: 347.915+/-0.083 $\chi^2$/NDF: 1841145.5/19

Left Out: 363.714+/-0.059 $\chi^2$/NDF:669244.7/24

Right Out: 340.224+/-0.074 $\chi^2$/NDF: 2596211.7/25

Left In: 365.324+/-0.061 $\chi^2$/NDF:509496.4/22

Left: 364.495+/-0.042 $\chi^2$/NDF: 1179100.0/47

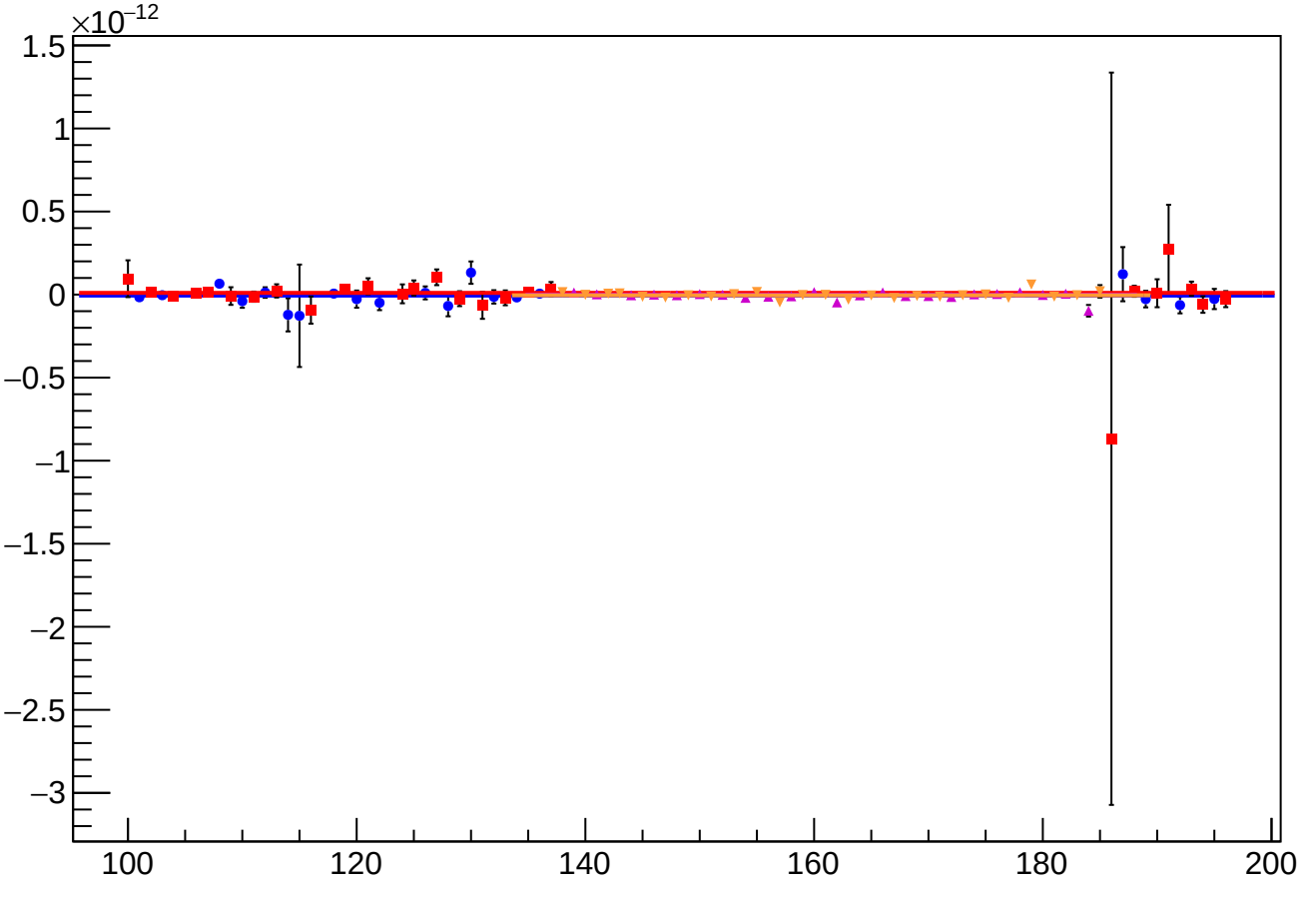
Right: 343.639+/-0.055 $\chi^2$/NDF: 4442127.8/45

In: 359.224+/-0.049 $\chi^2$/NDF:2379210.6/42

Out: 354.580+/-0.046 $\chi^2$/NDF:3326704.0/50

All: 356.762+/-0.034 $\chi^2$/NDF: 5710649.1/93

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 18.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 16.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:21.7/22

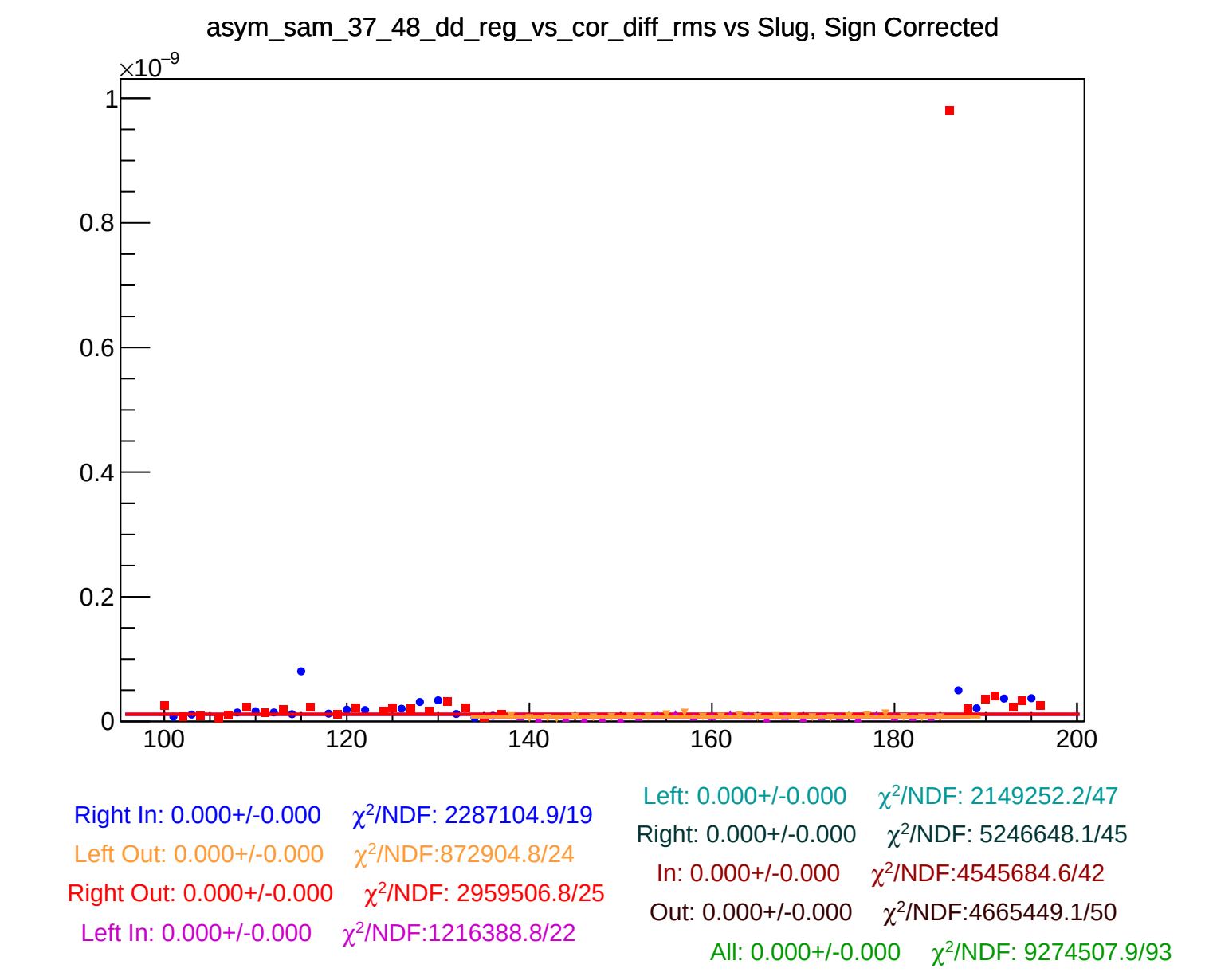
Left: -0.000+/-0.000 $\chi^2$/NDF: 44.3/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 38.7/45

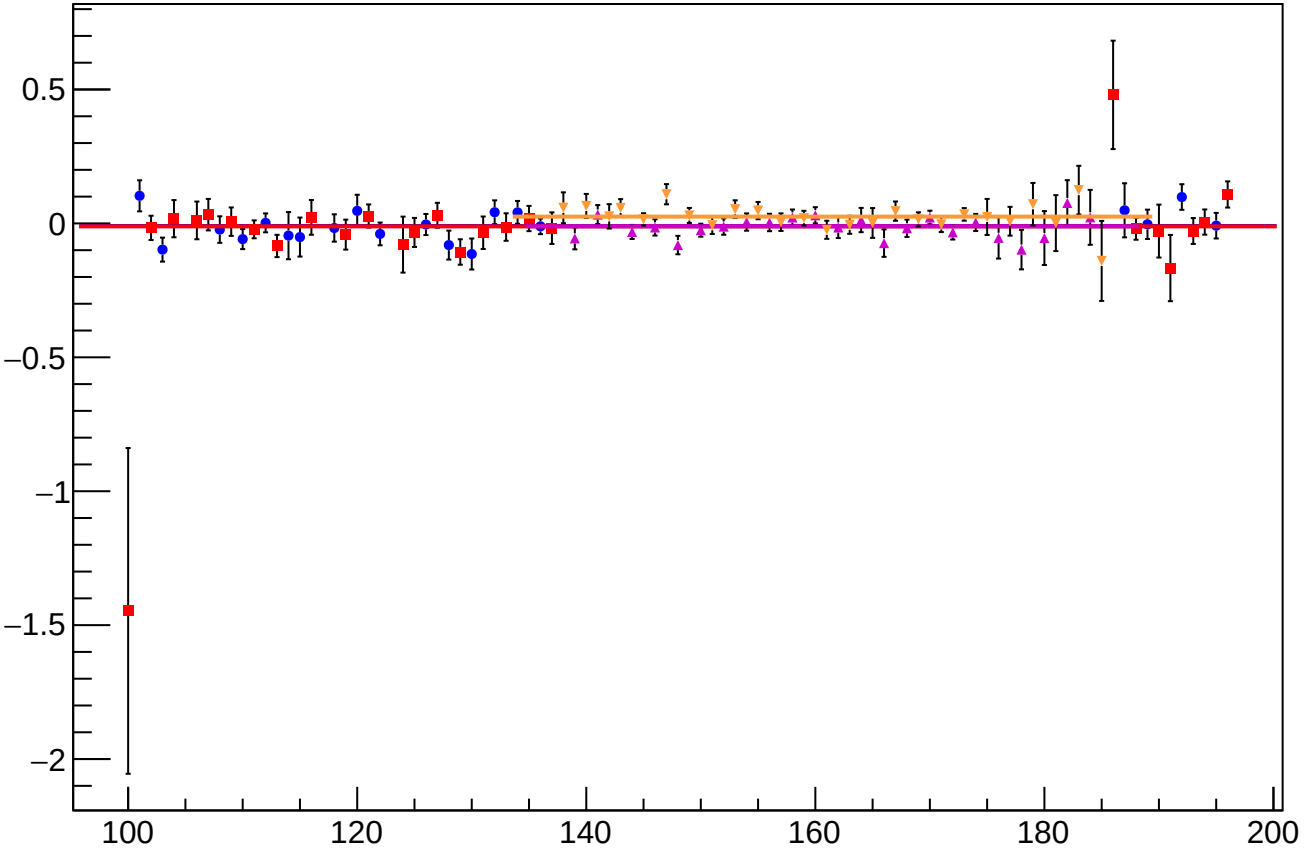
In: -0.000+/-0.000 $\chi^2$/NDF:41.0/42

Out: -0.000+/-0.000 $\chi^2$/NDF:43.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 84.1/93


asym_sam_37_48_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 2287104.9/19
Left Out: 0.000+/-0.000 χ²/NDF:872904.8/24
Right Out: 0.000+/-0.000 χ²/NDF: 2959506.8/25
Left In: 0.000+/-0.000 χ²/NDF:1216388.8/22
Left: 0.000+/-0.000 χ²/NDF: 2149252.2/47
Right: 0.000+/-0.000 χ²/NDF: 5246648.1/45
In: 0.000+/-0.000 χ²/NDF:4545684.6/42
Out: 0.000+/-0.000 χ²/NDF:4665449.1/50
All: 0.000+/-0.000 χ²/NDF: 9274507.9/93

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.010 $\chi^2$/NDF: 24.7/19

Left Out: 0.025+/-0.007 $\chi^2$/NDF:17.4/24

Right Out: -0.011+/-0.011 $\chi^2$/NDF: 30.9/25

Left In: -0.011+/-0.007 $\chi^2$/NDF:19.0/22

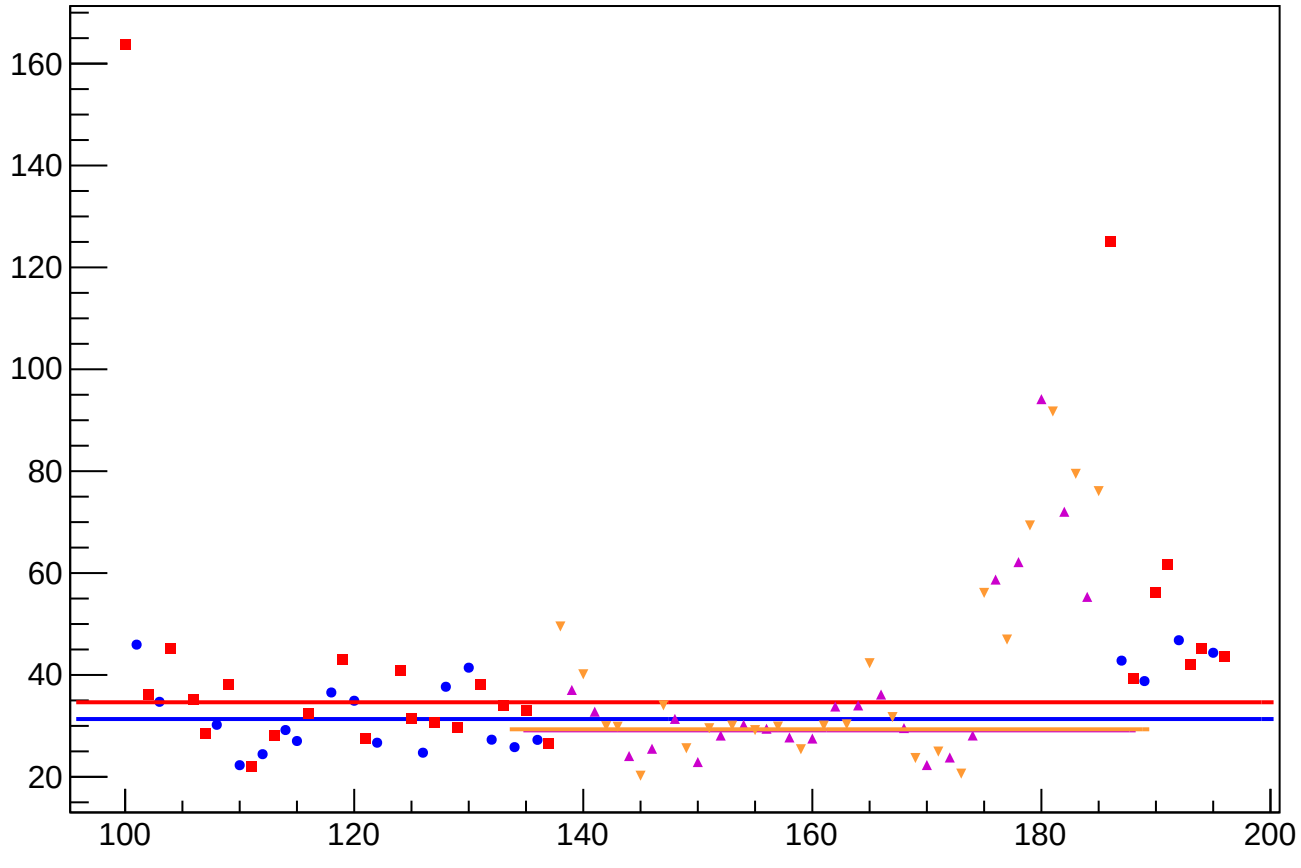
Left: 0.008+/-0.005 $\chi^2$/NDF: 49.0/47

Right: -0.010+/-0.007 $\chi^2$/NDF: 55.6/45

In: -0.011+/-0.006 $\chi^2$/NDF:43.7/42

Out: 0.014+/-0.006 $\chi^2$/NDF:56.4/50

All: 0.002+/-0.004 $\chi^2$/NDF: 108.5/93




Right In: 31.348+/-0.007 $\chi^2$/NDF: 1047693.6/19

Left Out: 29.335+/-0.005 $\chi^2$/NDF:3874774.5/24

Right Out: 34.639+/-0.007 $\chi^2$/NDF: 1527915.8/25

Left In: 29.125+/-0.005 $\chi^2$/NDF:2839115.6/22

Left: 29.231+/-0.004 $\chi^2$/NDF: 6714732.4/47

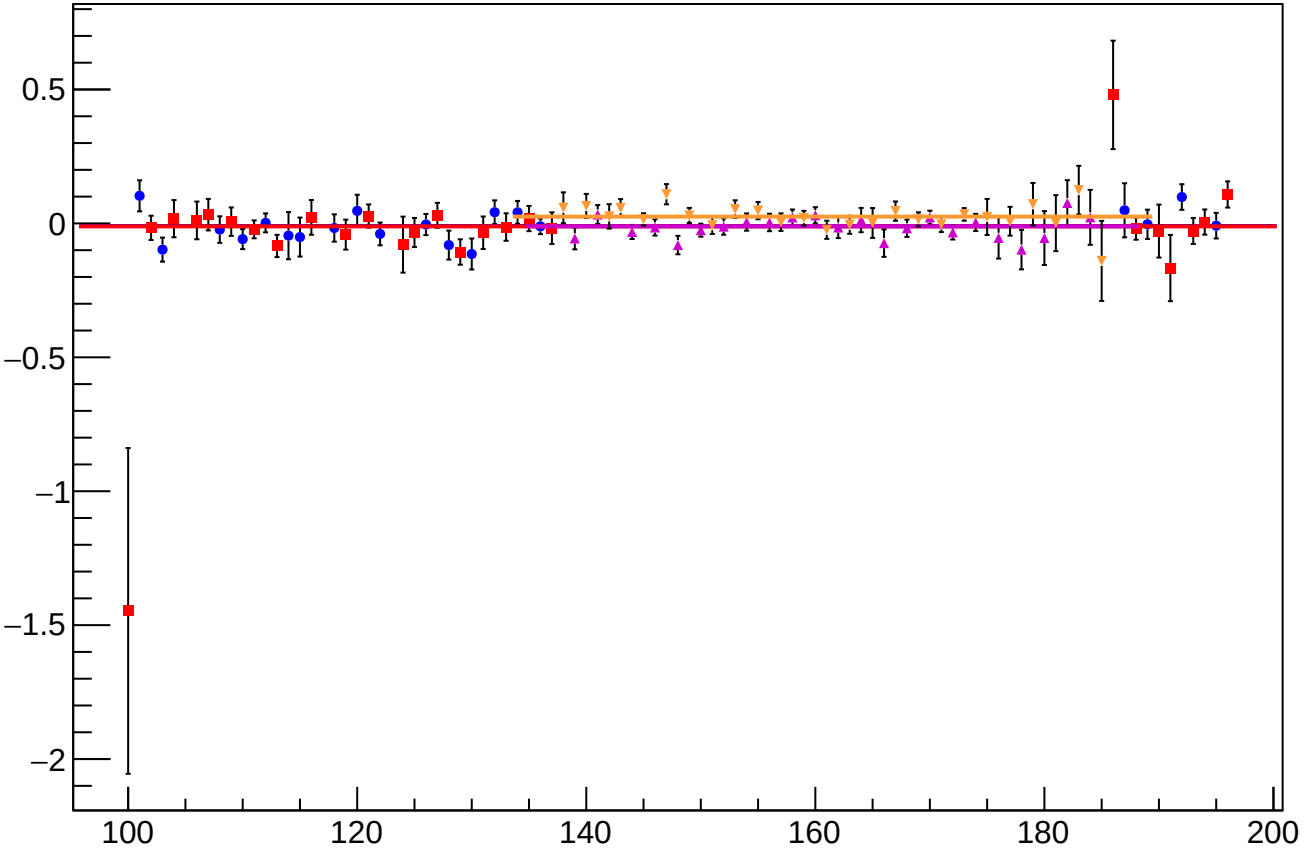
Right: 32.979+/-0.005 $\chi^2$/NDF: 2673068.5/45

In: 29.849+/-0.004 $\chi^2$/NDF:3947313.3/42

Out: 31.005+/-0.004 $\chi^2$/NDF:5746535.7/50

All: 30.432+/-0.003 $\chi^2$/NDF: 9731373.2/93

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.010+/-0.010 $\chi^2$/NDF: 24.7/19

Left Out: 0.025+/-0.007 $\chi^2$/NDF:17.4/24

Right Out: -0.011+/-0.011 $\chi^2$/NDF: 30.9/25

Left In: -0.011+/-0.007 $\chi^2$/NDF:19.0/22

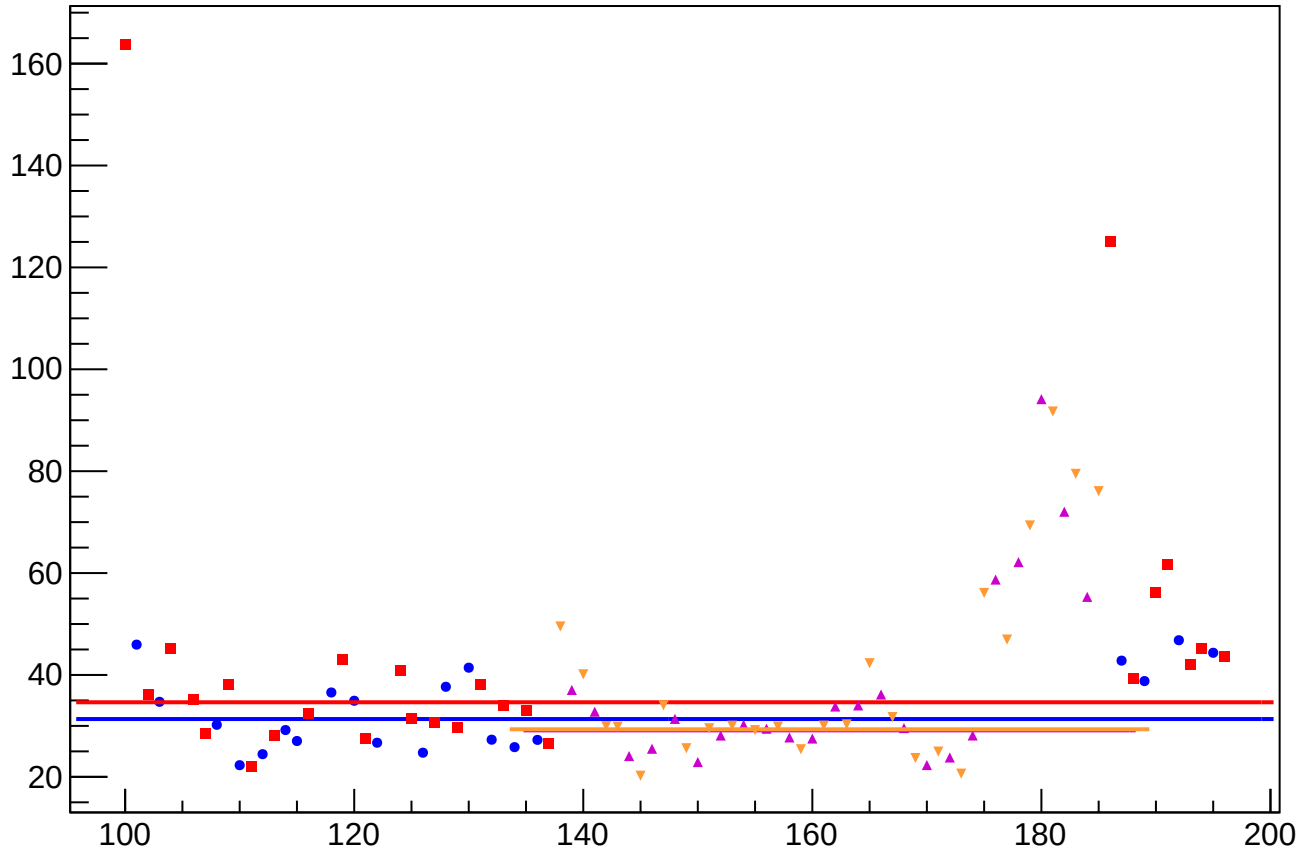
Left: 0.008+/-0.005 $\chi^2$/NDF: 49.0/47

Right: -0.010+/-0.007 $\chi^2$/NDF: 55.6/45

In: -0.011+/-0.006 $\chi^2$/NDF:43.7/42

Out: 0.014+/-0.006 $\chi^2$/NDF:56.4/50

All: 0.002+/-0.004 $\chi^2$/NDF: 108.5/93




Right In: 31.348+/-0.007 $\chi^2$/NDF: 1047693.6/19

Left Out: 29.335+/-0.005 $\chi^2$/NDF:3874774.5/24

Right Out: 34.639+/-0.007 $\chi^2$/NDF: 1527915.8/25

Left In: 29.125+/-0.005 $\chi^2$/NDF:2839115.6/22

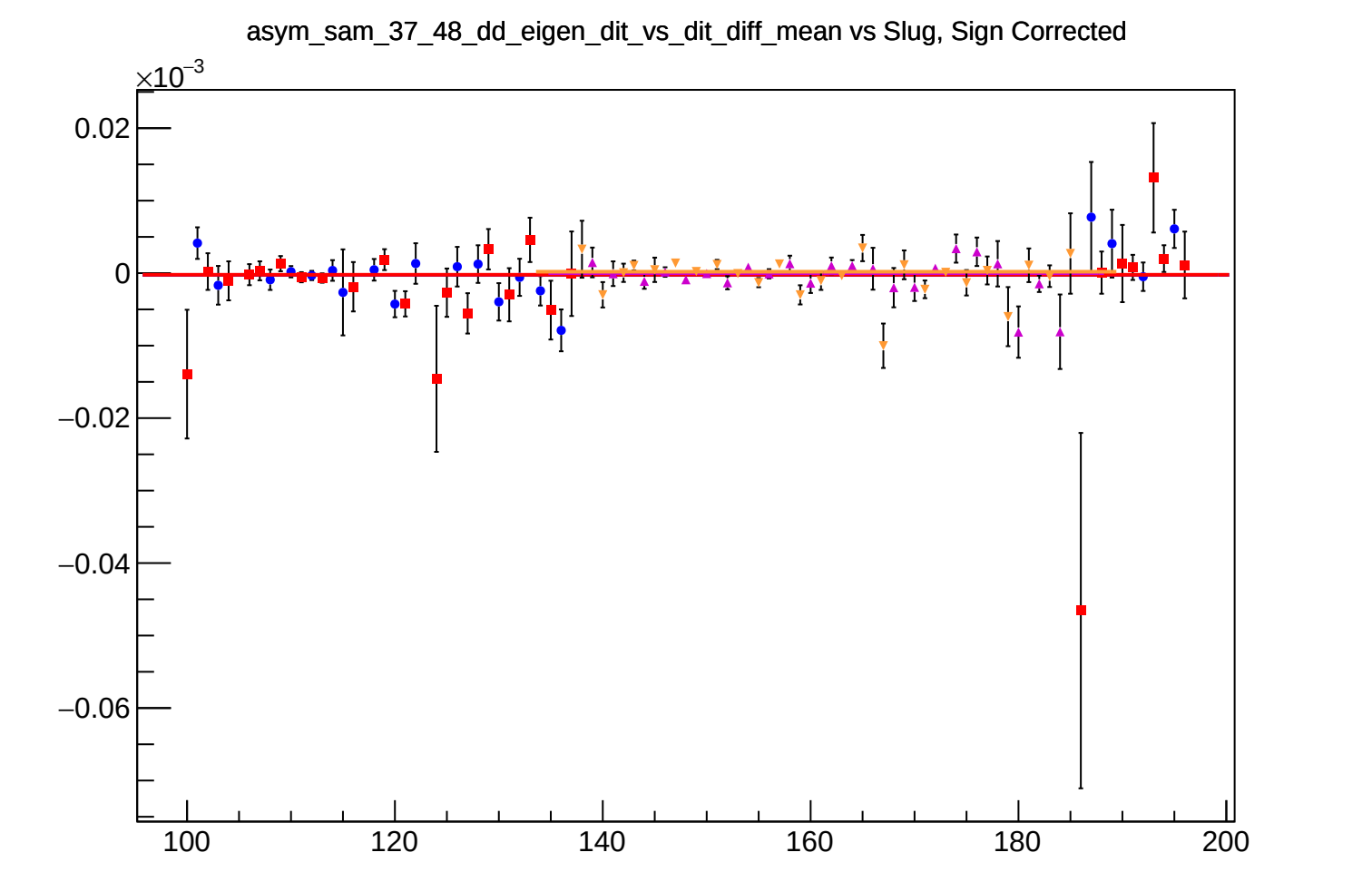
Left: 29.231+/-0.004 $\chi^2$/NDF: 6714732.4/47

Right: 32.979+/-0.005 $\chi^2$/NDF: 2673068.5/45

In: 29.849+/-0.004 $\chi^2$/NDF:3947313.3/42

Out: 31.005+/-0.004 $\chi^2$/NDF:5746535.7/50

All: 30.432+/-0.003 $\chi^2$/NDF: 9731373.2/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 29.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 34.2/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:32.9/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 86.2/47

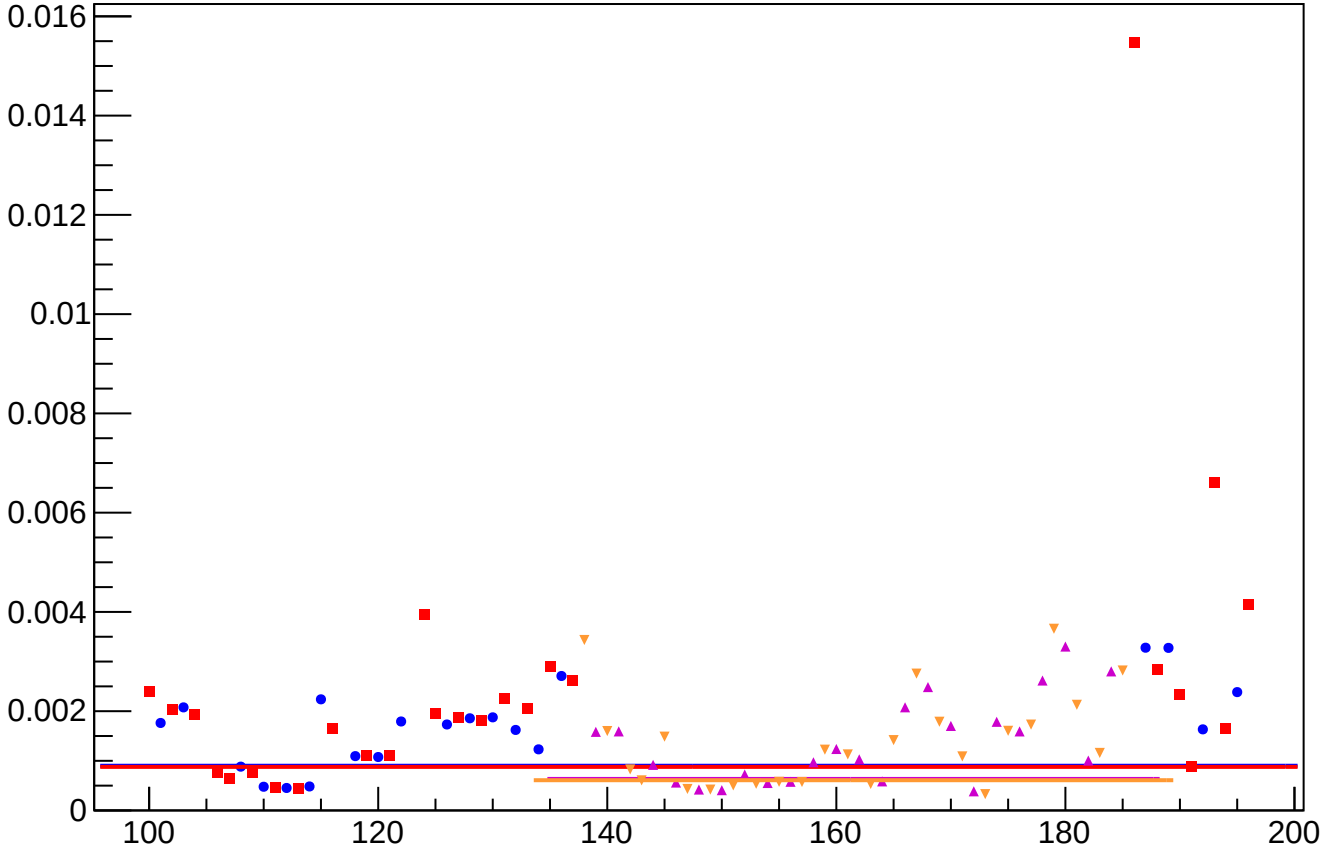
Right: -0.000+/-0.000 $\chi^2$/NDF: 63.4/45

In: -0.000+/-0.000 $\chi^2$/NDF:62.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:88.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 151.2/93

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 6156644.7/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:10964161.2/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9073417.1/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:9376124.7/22

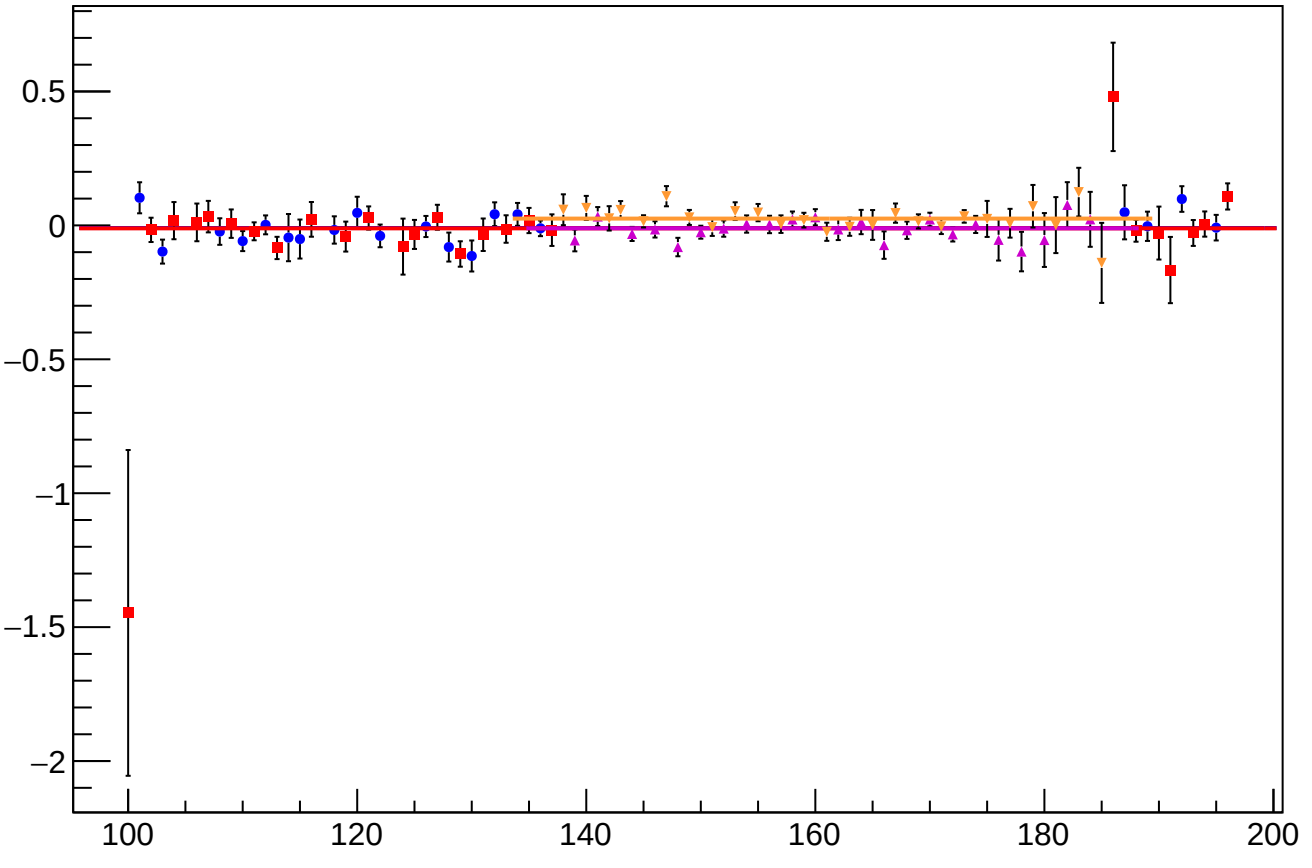
Left: 0.001+/-0.000 $\chi^2$/NDF: 20361960.5/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 15234338.1/45

In: 0.001+/-0.000 $\chi^2$/NDF:16403806.0/42

Out: 0.001+/-0.000 $\chi^2$/NDF:21080284.4/50

All: 0.001+/-0.000 $\chi^2$/NDF: 37509196.8/93




Right In: -0.010+/-0.010 $\chi^2$/NDF: 24.7/19

Left Out: 0.025+/-0.007 $\chi^2$/NDF:17.4/24

Right Out: -0.011+/-0.011 $\chi^2$/NDF: 30.9/25

Left In: -0.011+/-0.007 $\chi^2$/NDF:19.0/22

Left: 0.008+/-0.005 $\chi^2$/NDF: 49.0/47

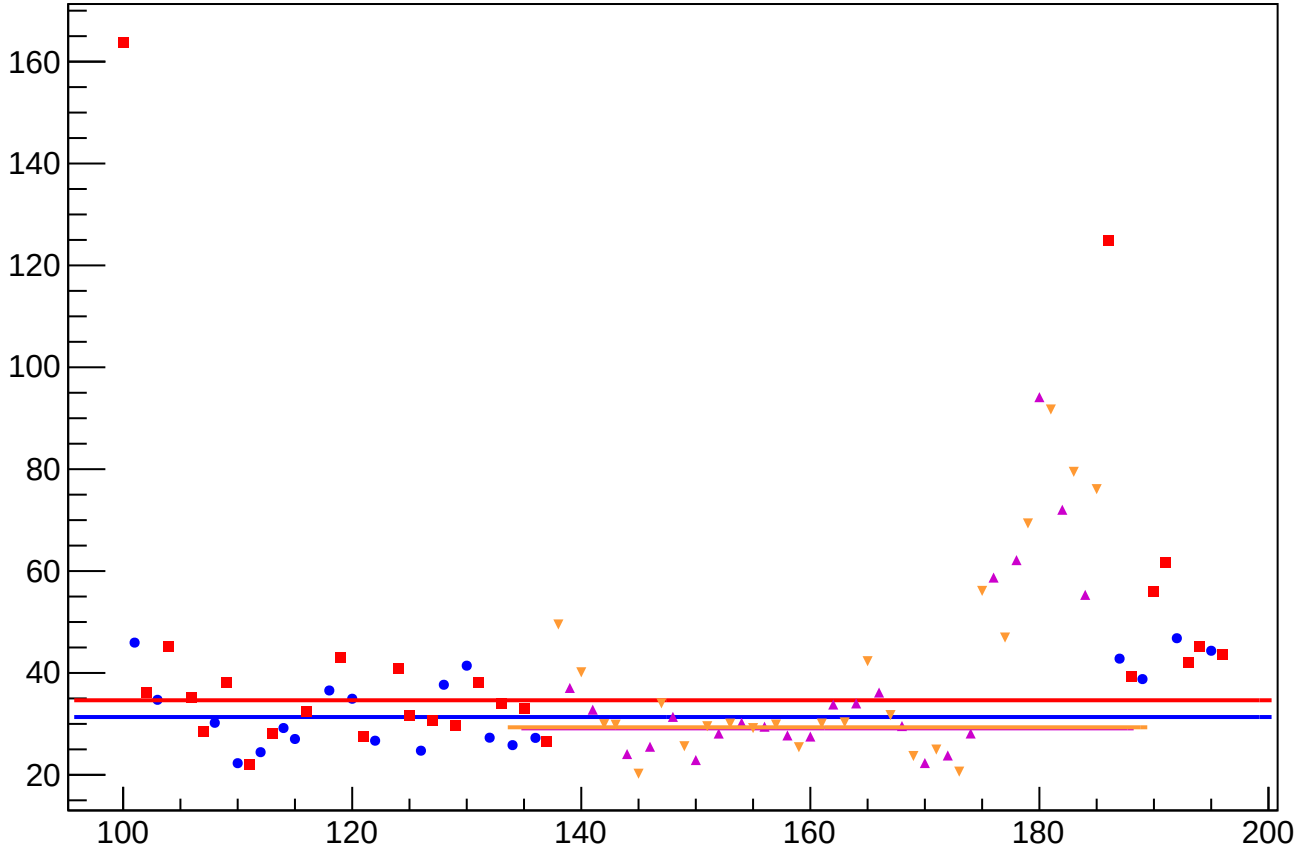
Right: -0.010+/-0.007 $\chi^2$/NDF: 55.6/45

In: -0.011+/-0.006 $\chi^2$/NDF:43.7/42

Out: 0.014+/-0.006 $\chi^2$/NDF:56.4/50

All: 0.002+/-0.004 $\chi^2$/NDF: 108.5/93

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.348+/-0.007 $\chi^2$/NDF: 1047653.6/19

Left Out: 29.334+/-0.005 $\chi^2$/NDF:3874839.0/24

Right Out: 34.639+/-0.007 $\chi^2$/NDF: 1527820.6/25

Left In: 29.124+/-0.005 $\chi^2$/NDF:2839078.4/22

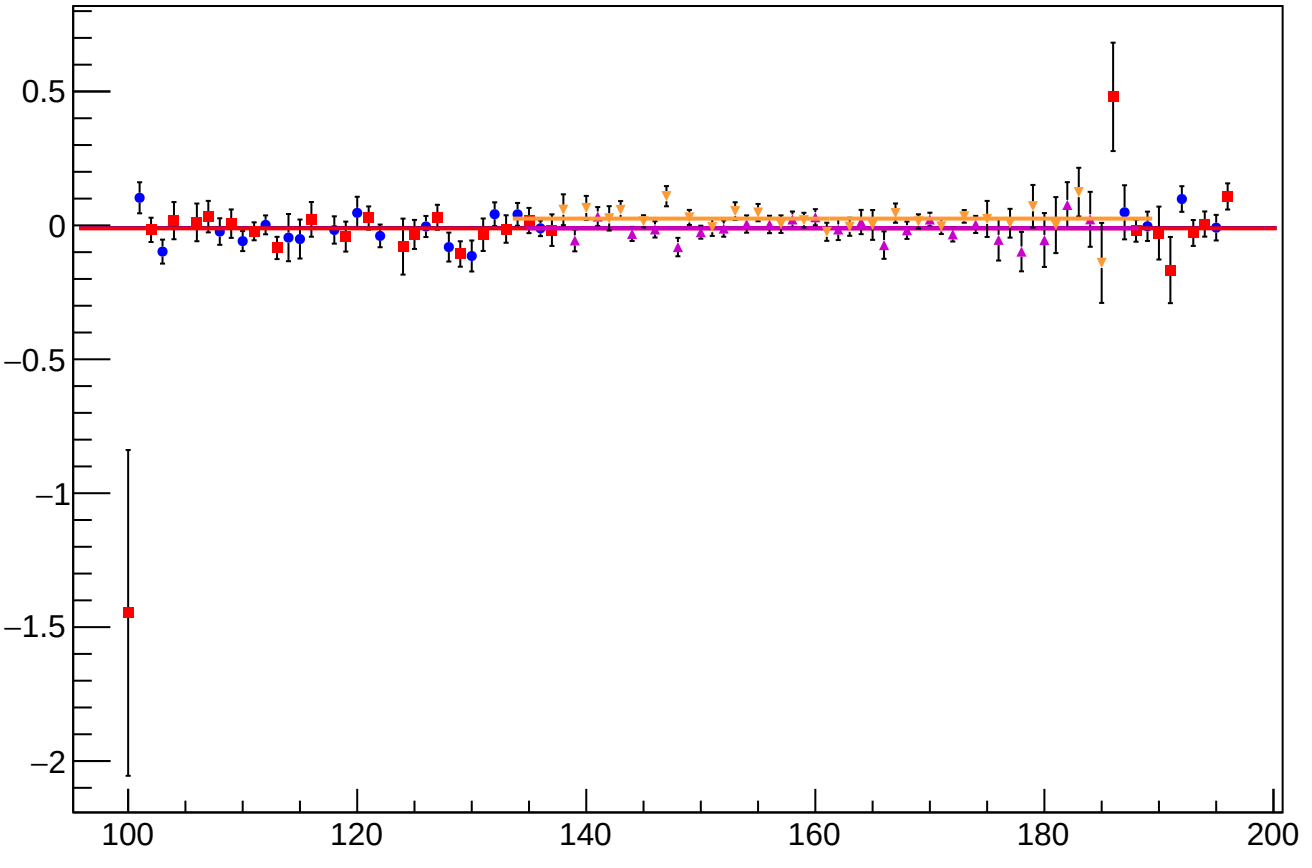
Left: 29.231+/-0.004 $\chi^2$/NDF: 6714759.4/47

Right: 32.979+/-0.005 $\chi^2$/NDF: 2672934.8/45

In: 29.849+/-0.004 $\chi^2$/NDF:3947250.3/42

Out: 31.005+/-0.004 $\chi^2$/NDF:5746548.1/50

All: 30.431+/-0.003 $\chi^2$/NDF: 9731321.0/93




Right In: -0.010+/-0.010 $\chi^2$/NDF: 24.7/19

Left Out: 0.025+/-0.007 $\chi^2$/NDF:17.4/24

Right Out: -0.011+/-0.011 $\chi^2$/NDF: 30.9/25

Left In: -0.011+/-0.007 $\chi^2$/NDF:19.0/22

Left: 0.008+/-0.005 $\chi^2$/NDF: 49.0/47

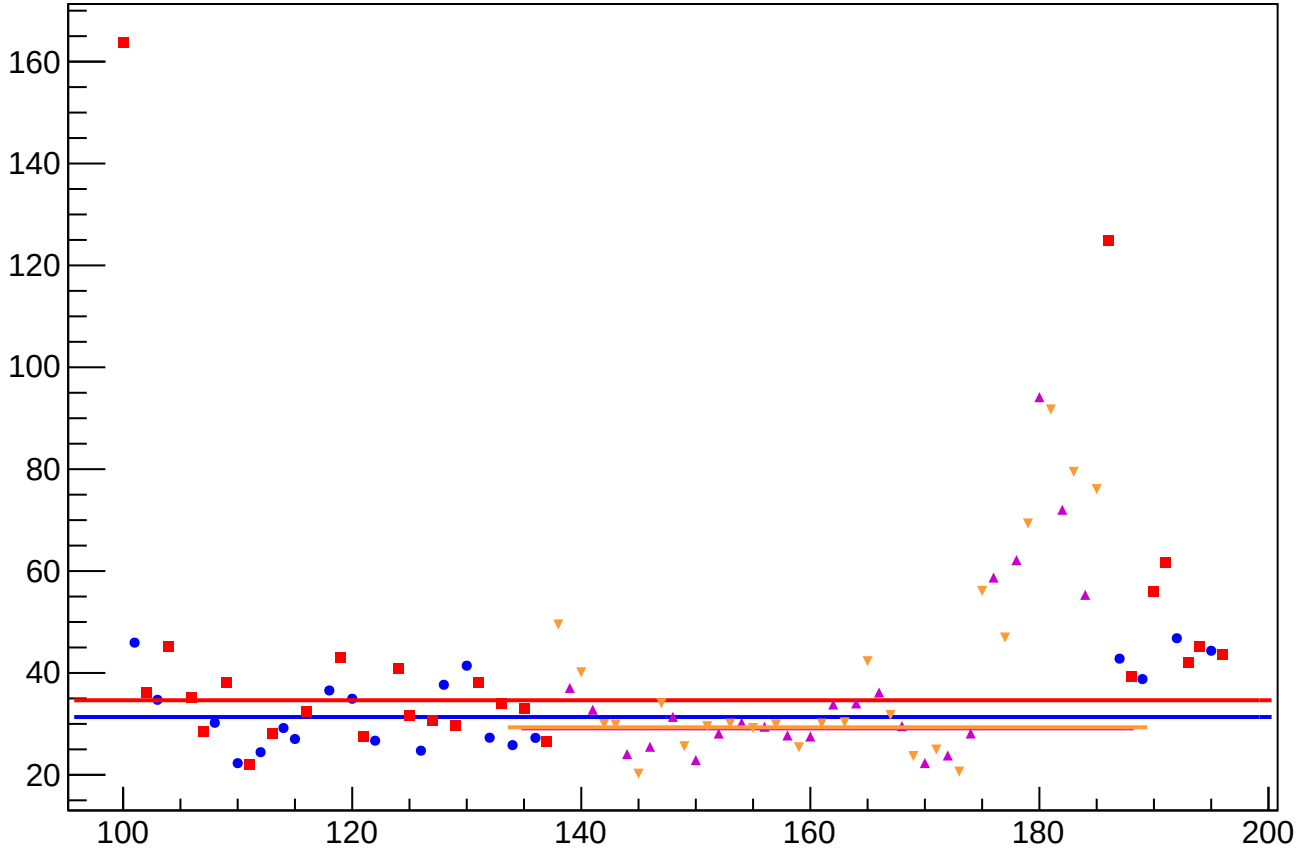
Right: -0.010+/-0.007 $\chi^2$/NDF: 55.6/45

In: -0.011+/-0.006 $\chi^2$/NDF:43.7/42

Out: 0.014+/-0.006 $\chi^2$/NDF:56.4/50

All: 0.002+/-0.004 $\chi^2$/NDF: 108.5/93

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 31.348+/-0.007 $\chi^2$/NDF: 1047653.6/19

Left Out: 29.334+/-0.005 $\chi^2$/NDF:3874839.0/24

Right Out: 34.639+/-0.007 $\chi^2$/NDF: 1527820.6/25

Left In: 29.124+/-0.005 $\chi^2$/NDF:2839078.4/22

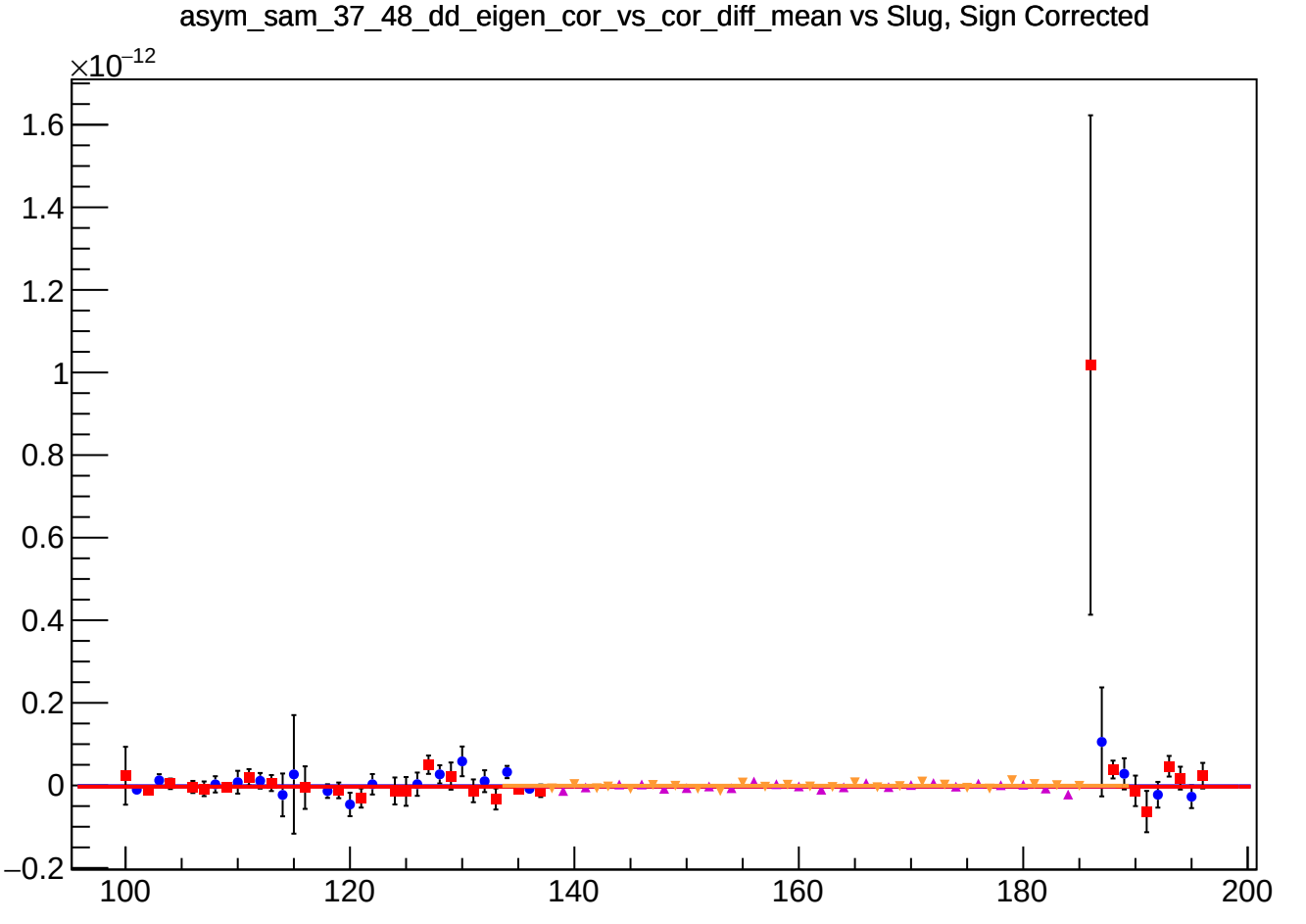
Left: 29.231+/-0.004 $\chi^2$/NDF: 6714759.4/47

Right: 32.979+/-0.005 $\chi^2$/NDF: 2672934.8/45

In: 29.849+/-0.004 $\chi^2$/NDF:3947250.3/42

Out: 31.005+/-0.004 $\chi^2$/NDF:5746548.1/50

All: 30.431+/-0.003 $\chi^2$/NDF: 9731321.0/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.5/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:15.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 27.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:16.5/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 31.8/47

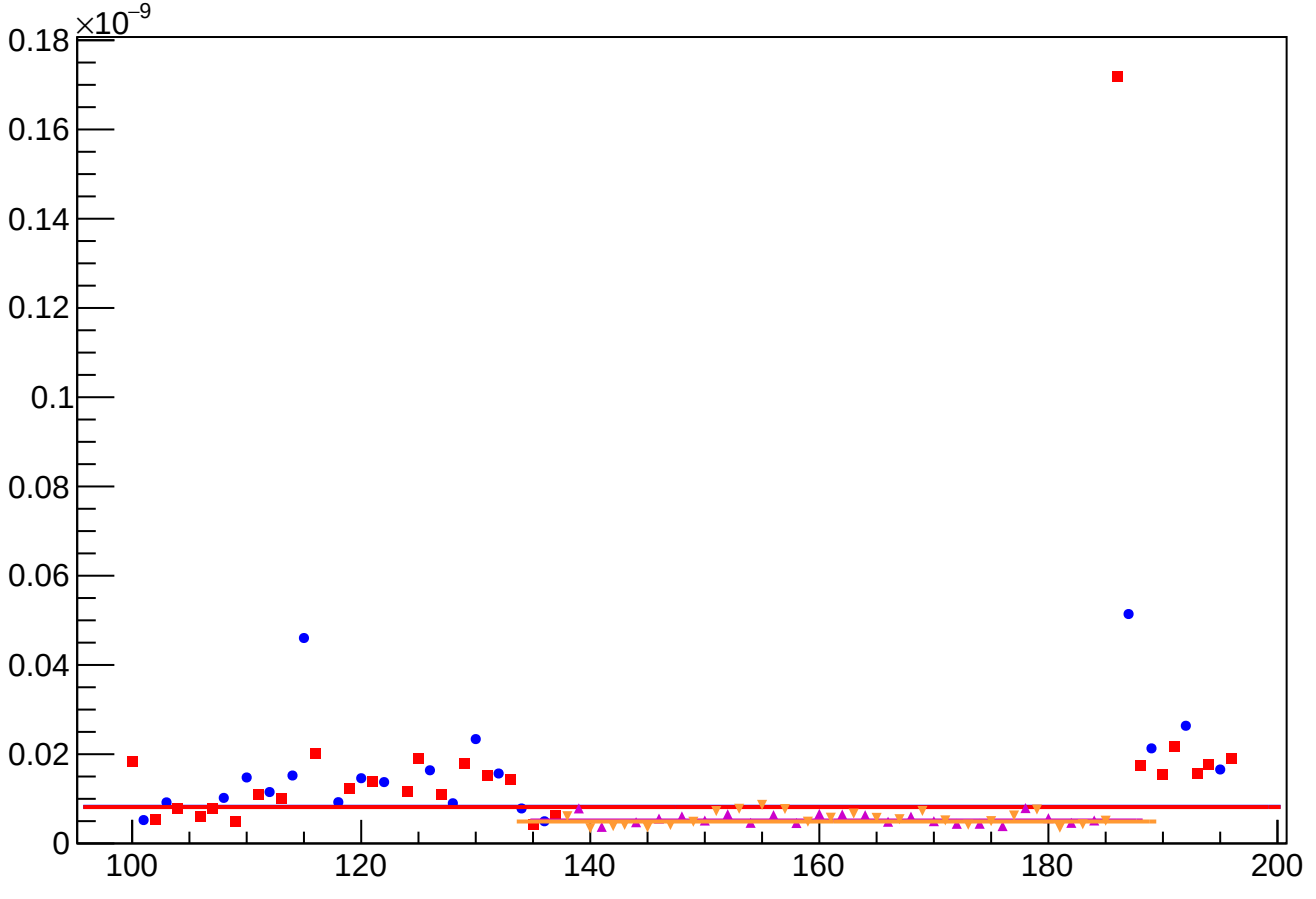
Right: -0.000+/-0.000 $\chi^2$/NDF: 46.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:36.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:42.6/50

All: -0.000+/-0.000 $\chi^2$/NDF: 78.7/93

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3389239.2/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1871499.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3523230.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:976775.4/22

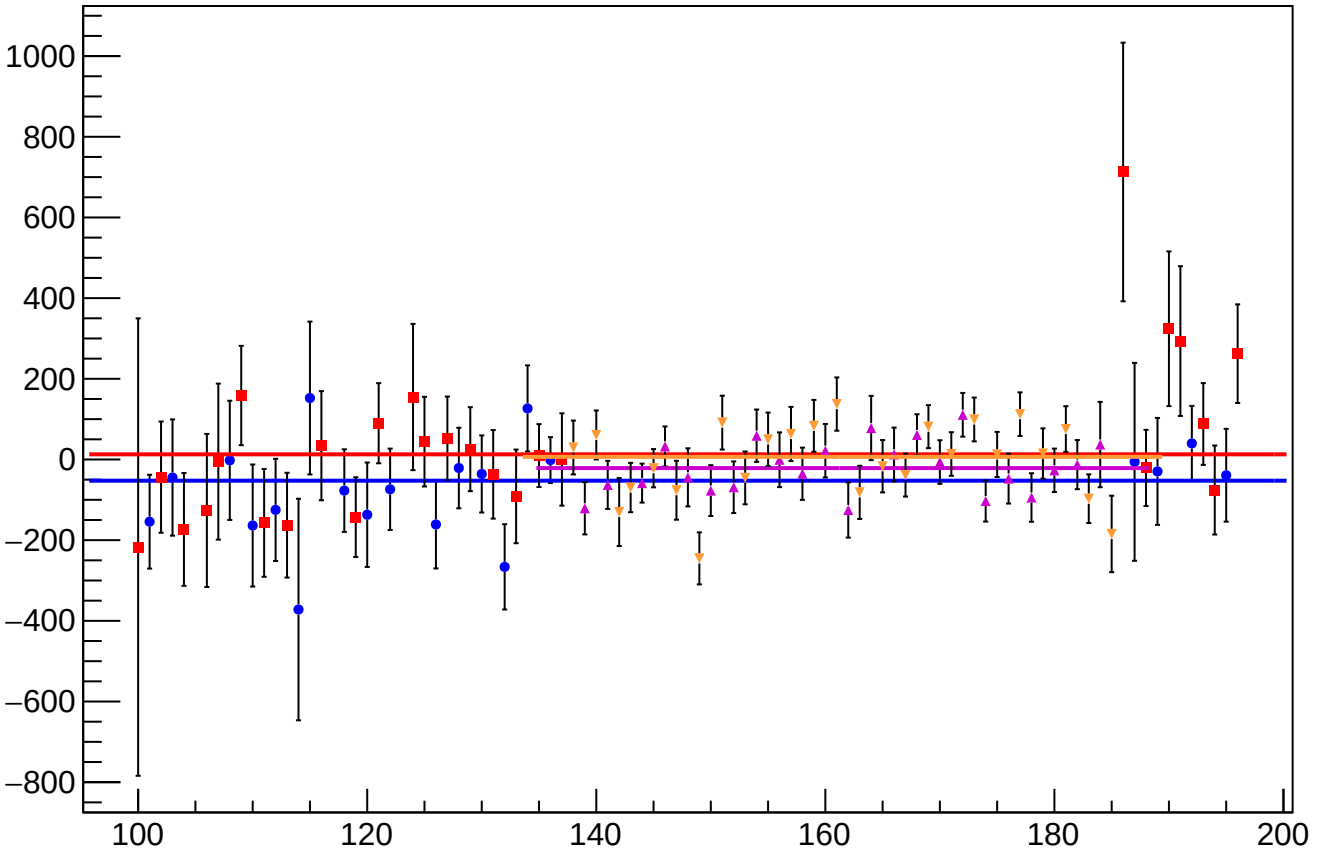
Left: 0.000+/-0.000 $\chi^2$/NDF: 2874002.6/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6912832.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:5536771.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:6877348.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 12434826.0/93




Right In: -52.579+/-24.883 $\chi^2$/NDF: 14.7/19

Left Out: 6.523+/-12.287 $\chi^2$/NDF:50.6/24

Right Out: 12.773+/-24.103 $\chi^2$/NDF: 27.7/25

Left In: -21.336+/-12.649 $\chi^2$/NDF:25.4/22

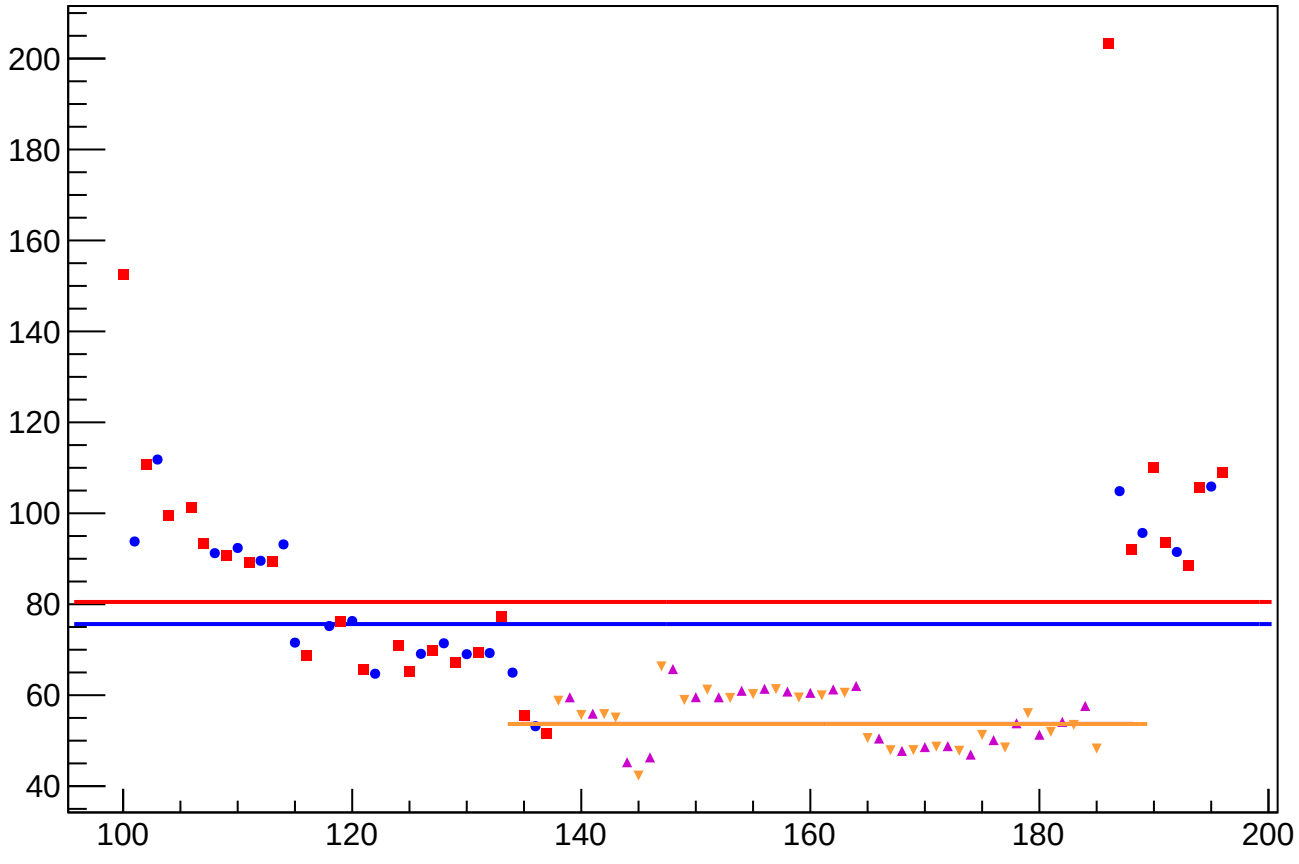
Left: -7.002+/-8.814 $\chi^2$/NDF: 78.5/47

Right: -18.863+/-17.312 $\chi^2$/NDF: 45.9/45

In: -27.752+/-11.276 $\chi^2$/NDF:41.3/42

Out: 7.812+/-10.947 $\chi^2$/NDF:78.3/50

All: -9.443+/-7.854 $\chi^2$/NDF: 124.8/93




Right In: 75.639+/-0.018 $\chi^2$/NDF: 910409.1/19

Left Out: 53.666+/-0.009 $\chi^2$/NDF:472206.8/24

Right Out: 80.500+/-0.017 $\chi^2$/NDF: 1355109.0/25

Left In: 53.695+/-0.009 $\chi^2$/NDF:471343.7/22

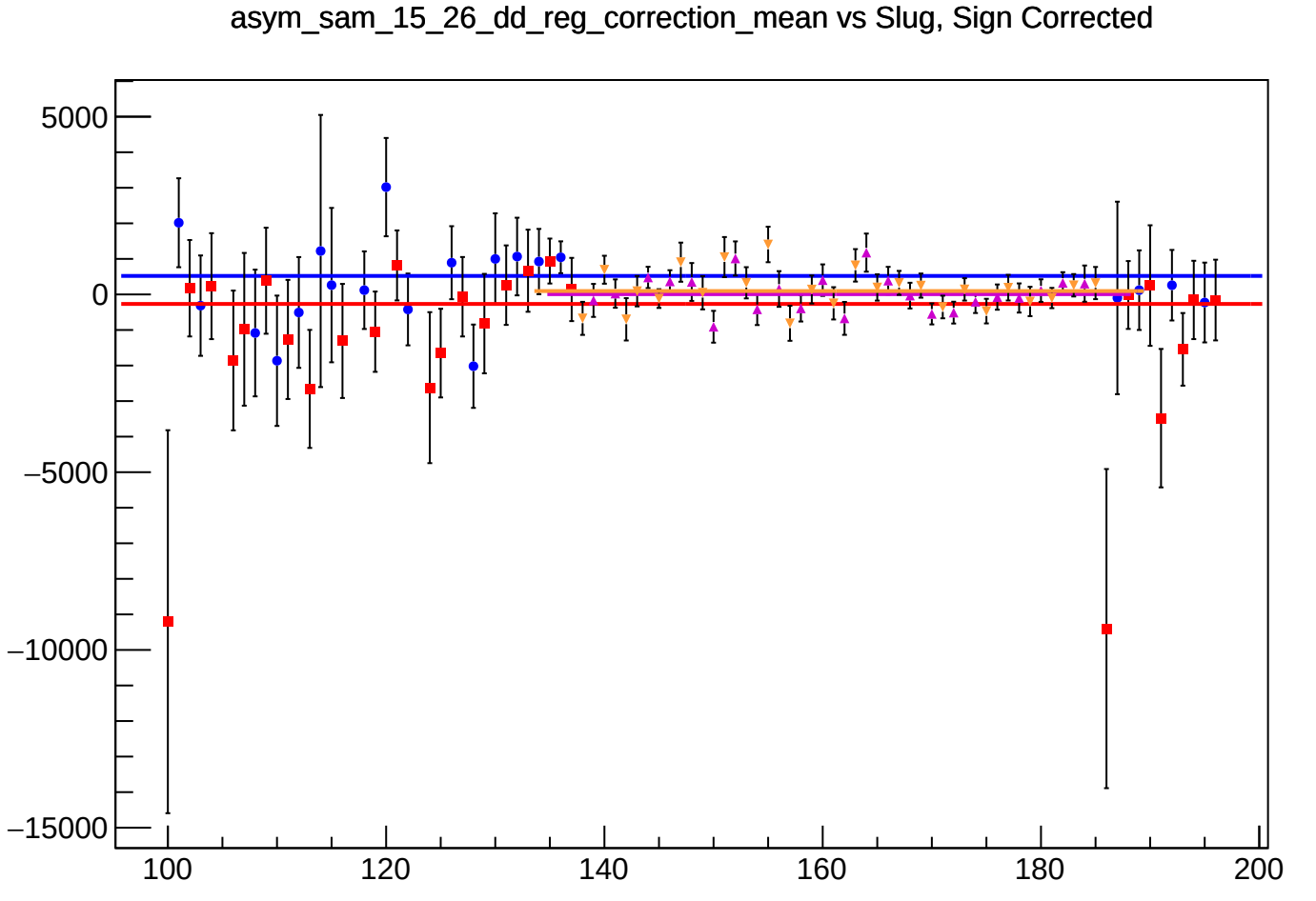
Left: 53.680+/-0.006 $\chi^2$/NDF: 943555.9/47

Right: 78.147+/-0.012 $\chi^2$/NDF: 2304900.1/45

In: 58.201+/-0.008 $\chi^2$/NDF:2617888.1/42

Out: 59.201+/-0.008 $\chi^2$/NDF:3795006.2/50

All: 58.716+/-0.006 $\chi^2$/NDF: 6420986.9/93




Right In: 520.681+/-244.037 $\chi^2$/NDF: 16.5/19

Left Out: 95.456+/-77.134 $\chi^2$/NDF:33.2/24

Right Out: -267.474+/-244.790 $\chi^2$/NDF: 24.5/25

Left In: 7.879+/-79.125 $\chi^2$/NDF:32.3/22

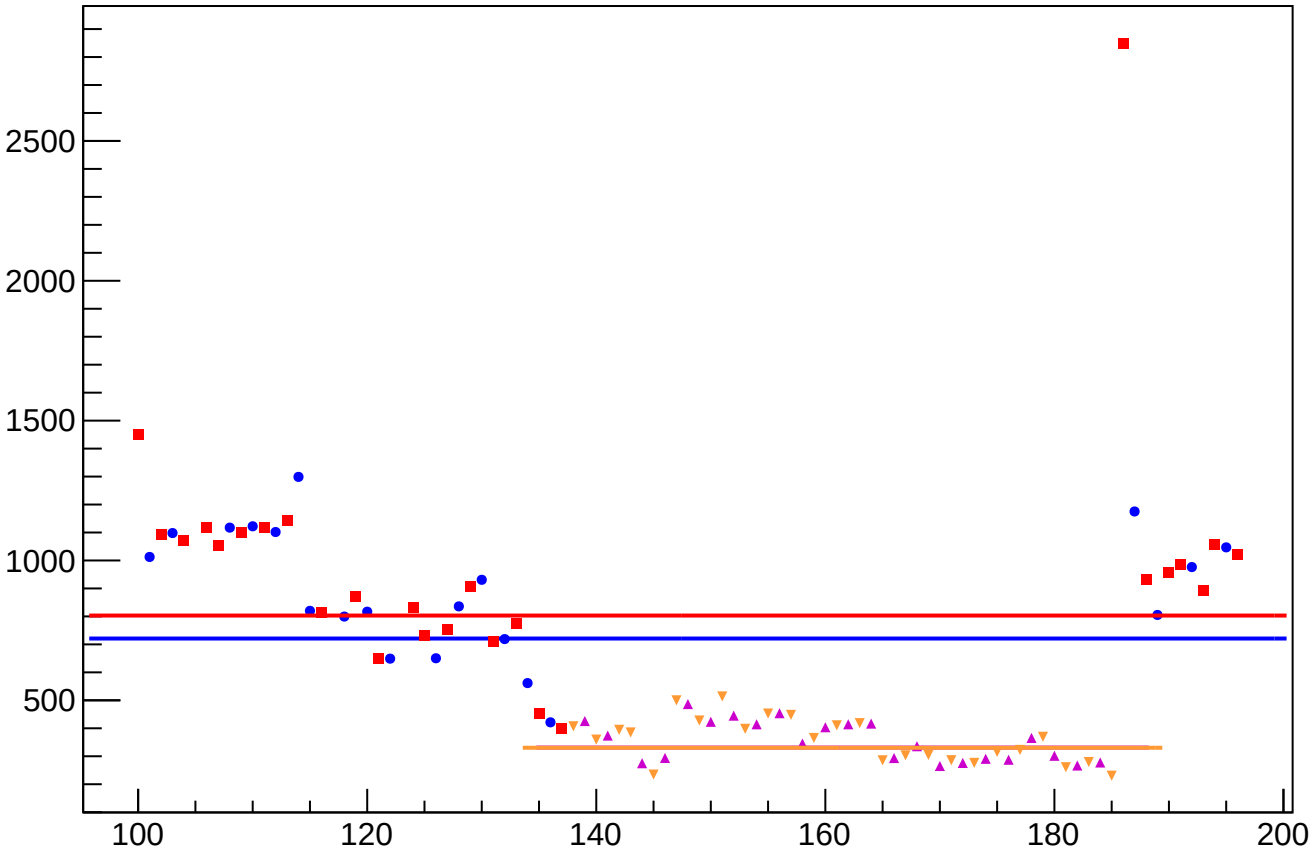
Left: 52.783+/-55.233 $\chi^2$/NDF: 66.1/47

Right: 127.817+/-172.826 $\chi^2$/NDF: 46.2/45

In: 56.661+/-75.268 $\chi^2$/NDF:52.8/42

Out: 62.676+/-73.568 $\chi^2$/NDF:59.6/50

All: 59.737+/-52.611 $\chi^2$/NDF: 112.4/93




Right In: 720.918+/-0.173 $\chi^2$/NDF: 2046221.5/19

Left Out: 330.405+/-0.055 $\chi^2$/NDF:1752470.5/24

Right Out: 803.103+/-0.173 $\chi^2$/NDF: 2304266.2/25

Left In: 331.059+/-0.056 $\chi^2$/NDF:1325602.5/22

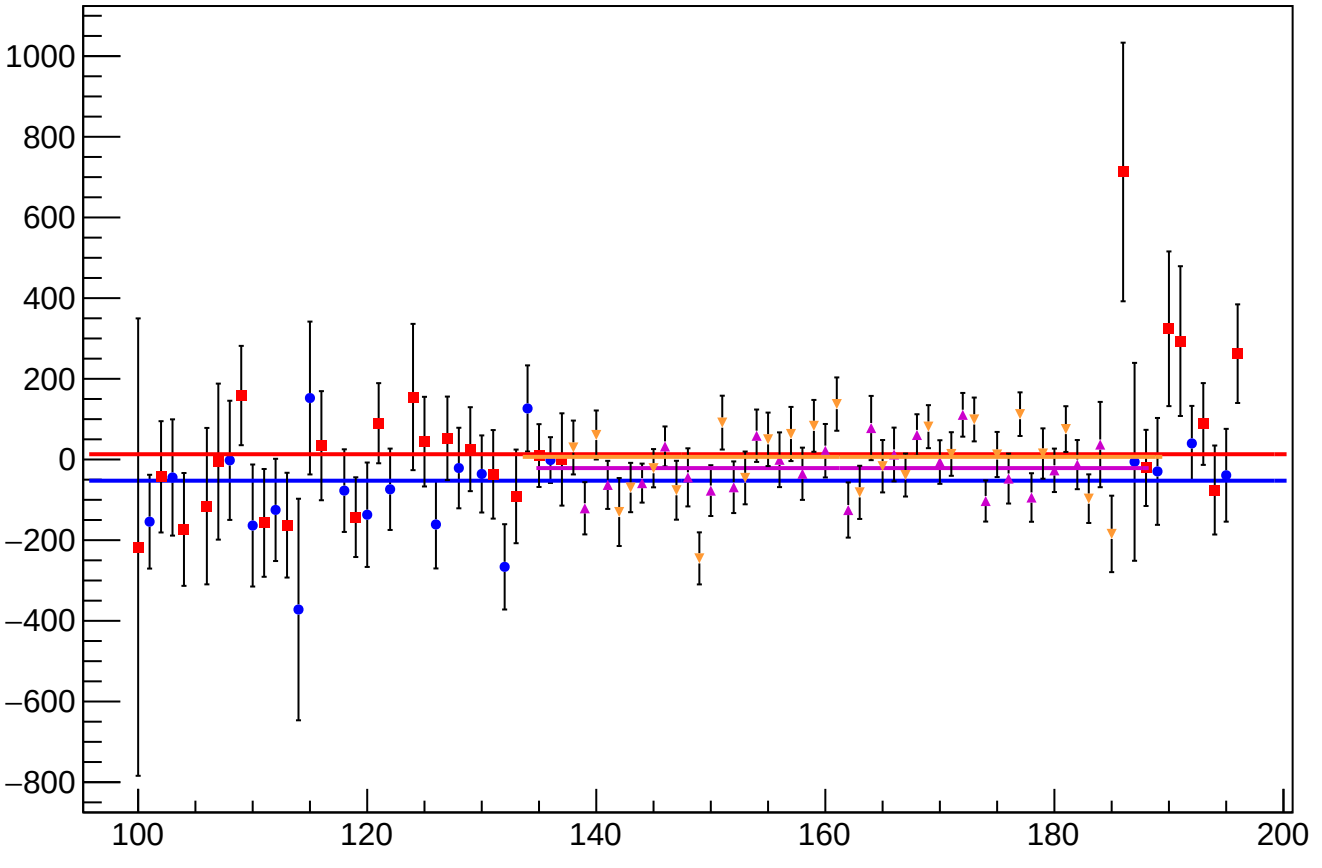
Left: 330.724+/-0.039 $\chi^2$/NDF: 3078142.9/47

Right: 761.884+/-0.122 $\chi^2$/NDF: 4463553.0/45

In: 368.145+/-0.053 $\chi^2$/NDF:7990541.4/42

Out: 373.100+/-0.052 $\chi^2$/NDF:10840906.9/50

All: 370.679+/-0.037 $\chi^2$/NDF: 18835881.6/93




Right In: -52.571+/-24.883 $\chi^2$/NDF: 14.7/19

Left Out: 6.526+/-12.287 $\chi^2$/NDF:50.6/24

Right Out: 13.064+/-24.112 $\chi^2$/NDF: 27.6/25

Left In: -21.335+/-12.649 $\chi^2$/NDF:25.4/22

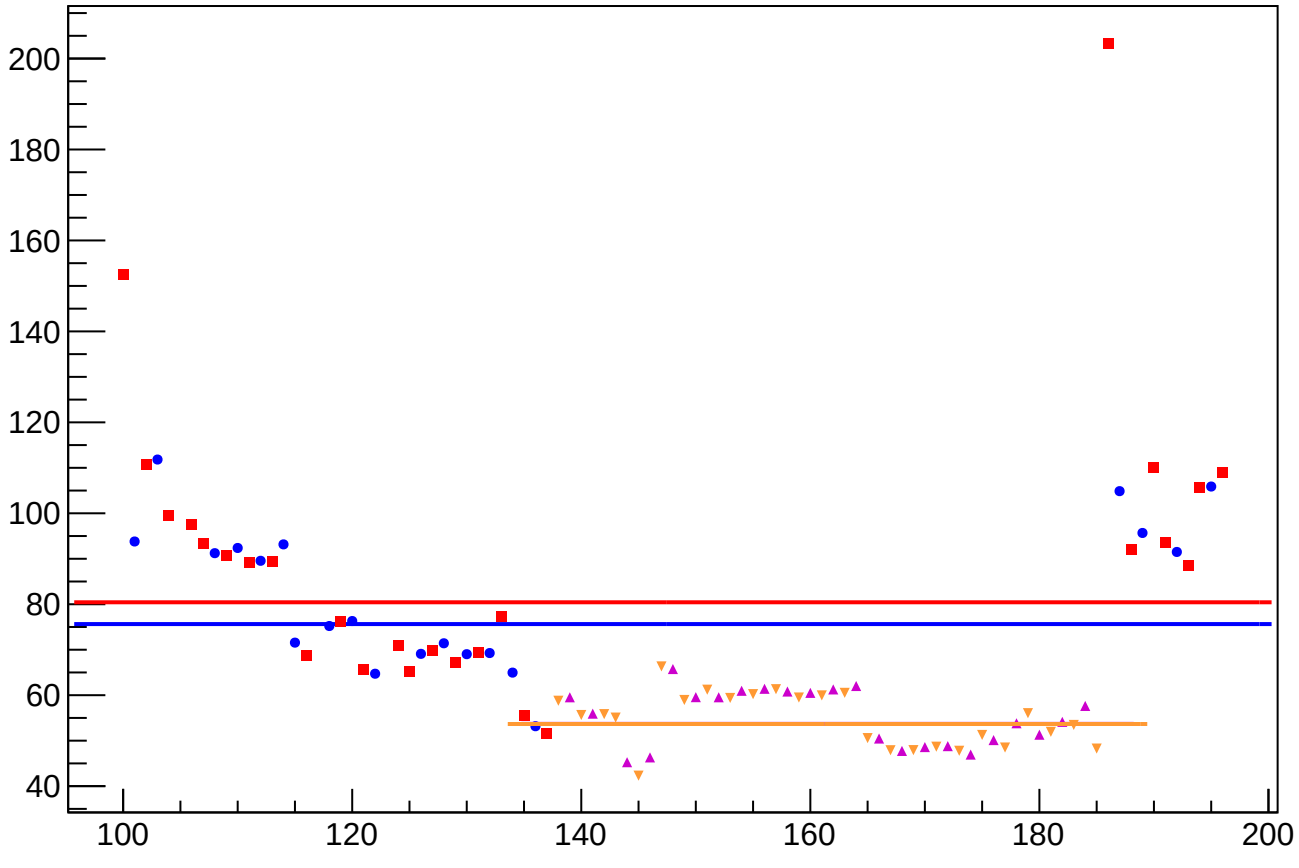
Left: -7.000+/-8.814 $\chi^2$/NDF: 78.5/47

Right: -18.721+/-17.316 $\chi^2$/NDF: 45.8/45

In: -27.749+/-11.276 $\chi^2$/NDF:41.3/42

Out: 7.873+/-10.948 $\chi^2$/NDF:78.2/50

All: -9.412+/-7.855 $\chi^2$/NDF: 124.7/93




Right In: 75.639+/-0.018 $\chi^2$/NDF: 910411.5/19

Left Out: 53.666+/-0.009 $\chi^2$/NDF:472206.8/24

Right Out: 80.430+/-0.017 $\chi^2$/NDF: 1346945.3/25

Left In: 53.695+/-0.009 $\chi^2$/NDF:471343.7/22

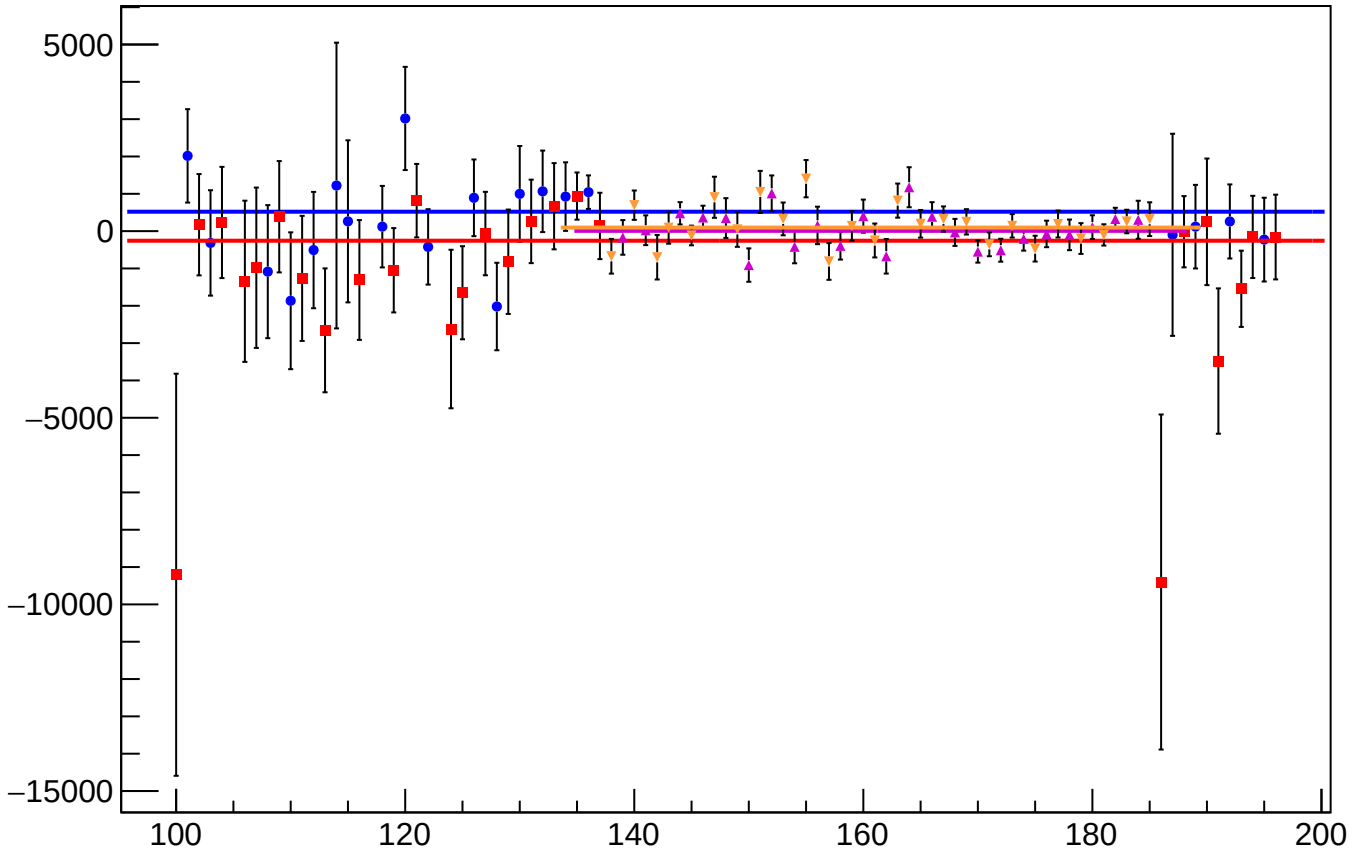
Left: 53.680+/-0.006 $\chi^2$/NDF: 943555.9/47

Right: 78.110+/-0.012 $\chi^2$/NDF: 2295592.1/45

In: 58.201+/-0.008 $\chi^2$/NDF:2617890.7/42

Out: 59.183+/-0.008 $\chi^2$/NDF:3775408.5/50

All: 58.707+/-0.006 $\chi^2$/NDF: 6401107.5/93




Right In: 520.671+/-244.038 $\chi^2$/NDF: 16.5/19

Left Out: 95.458+/-77.134 $\chi^2$/NDF:33.2/24

Right Out: -256.722+/-245.121 $\chi^2$/NDF: 24.0/25

Left In: 7.875+/-79.125 $\chi^2$/NDF:32.3/22

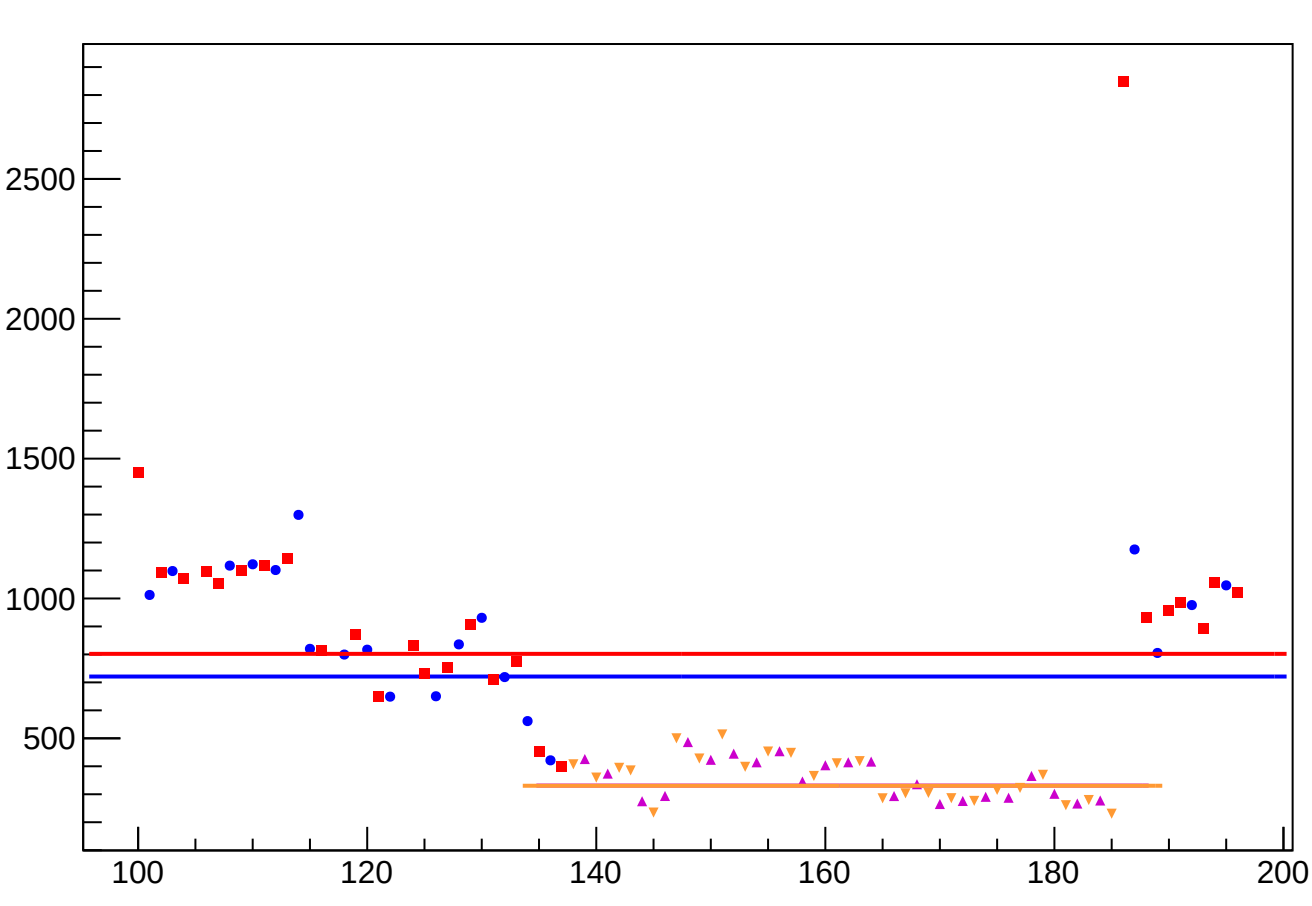
Left: 52.783+/-55.233 $\chi^2$/NDF: 66.1/47

Right: 133.697+/-172.943 $\chi^2$/NDF: 45.6/45

In: 56.656+/-75.268 $\chi^2$/NDF:52.8/42

Out: 63.727+/-73.577 $\chi^2$/NDF:59.1/50

All: 60.272+/-52.615 $\chi^2$/NDF: 111.9/93




Right In: 720.919+/-0.173 $\chi^2$/NDF: 2046246.1/19

Left Out: 330.405+/-0.055 $\chi^2$/NDF:1752469.2/24

Right Out: 801.981+/-0.173 $\chi^2$/NDF: 2289803.7/25

Left In: 331.058+/-0.056 $\chi^2$/NDF:1325610.1/22

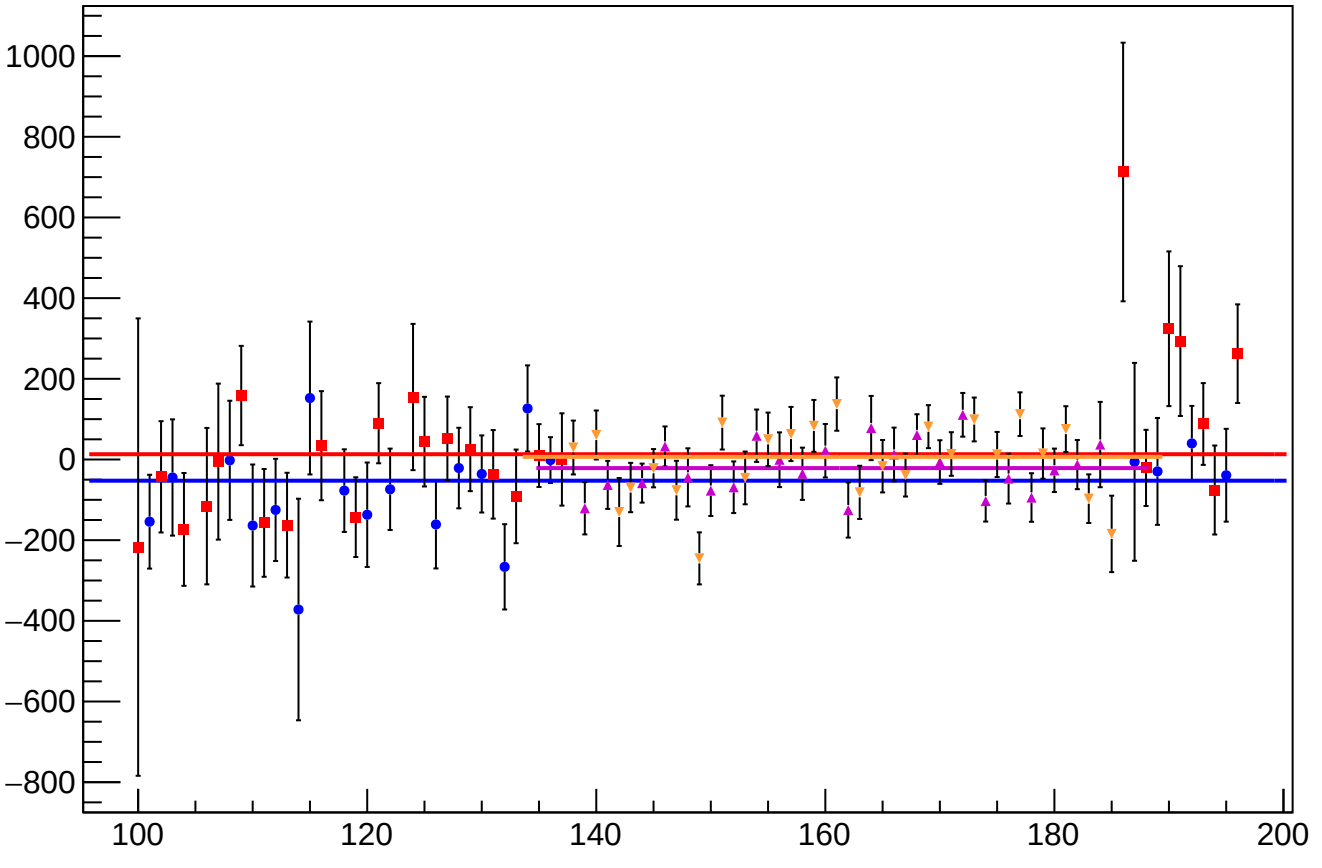
Left: 330.724+/-0.039 $\chi^2$/NDF: 3078149.1/47

Right: 761.270+/-0.122 $\chi^2$/NDF: 4445897.2/45

In: 368.145+/-0.053 $\chi^2$/NDF:7990573.6/42

Out: 372.894+/-0.052 $\chi^2$/NDF:10777673.0/50

All: 370.573+/-0.037 $\chi^2$/NDF: 18772318.7/93




Right In: -52.571+/-24.883 $\chi^2$/NDF: 14.7/19

Left Out: 6.526+/-12.287 $\chi^2$/NDF:50.6/24

Right Out: 13.064+/-24.112 $\chi^2$/NDF: 27.6/25

Left In: -21.335+/-12.649 $\chi^2$/NDF:25.4/22

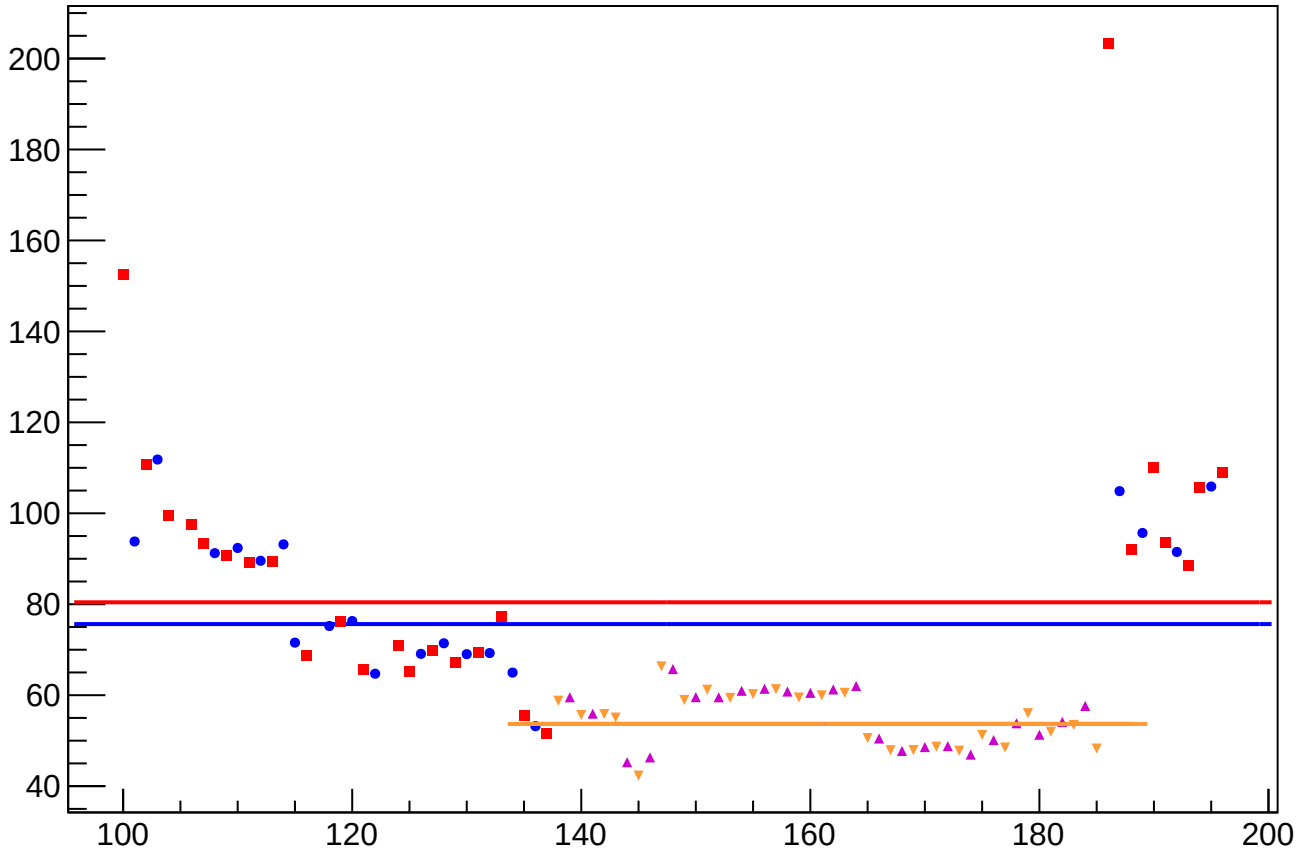
Left: -7.000+/-8.814 $\chi^2$/NDF: 78.5/47

Right: -18.721+/-17.316 $\chi^2$/NDF: 45.8/45

In: -27.749+/-11.276 $\chi^2$/NDF:41.3/42

Out: 7.873+/-10.948 $\chi^2$/NDF:78.2/50

All: -9.412+/-7.855 $\chi^2$/NDF: 124.7/93




Right In: 75.639+/-0.018 $\chi^2$/NDF: 910411.5/19

Left Out: 53.666+/-0.009 $\chi^2$/NDF:472206.8/24

Right Out: 80.430+/-0.017 $\chi^2$/NDF: 1346945.3/25

Left In: 53.695+/-0.009 $\chi^2$/NDF:471343.7/22

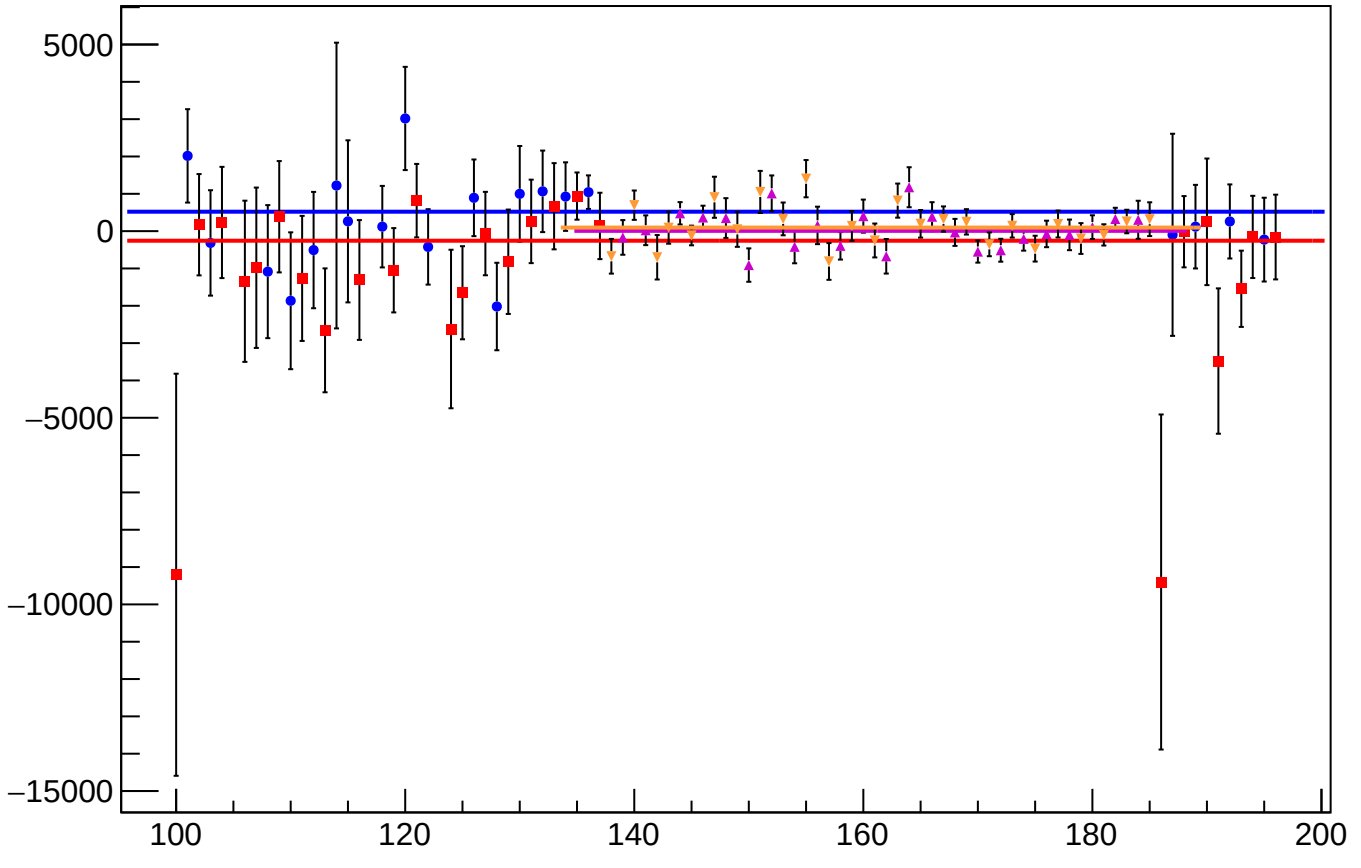
Left: 53.680+/-0.006 $\chi^2$/NDF: 943555.9/47

Right: 78.110+/-0.012 $\chi^2$/NDF: 2295592.1/45

In: 58.201+/-0.008 $\chi^2$/NDF:2617890.7/42

Out: 59.183+/-0.008 $\chi^2$/NDF:3775408.5/50

All: 58.707+/-0.006 $\chi^2$/NDF: 6401107.5/93




Right In: 520.671+/-244.038 $\chi^2$/NDF: 16.5/19

Left Out: 95.458+/-77.134 $\chi^2$/NDF:33.2/24

Right Out: -256.722+/-245.121 $\chi^2$/NDF: 24.0/25

Left In: 7.875+/-79.125 $\chi^2$/NDF:32.3/22

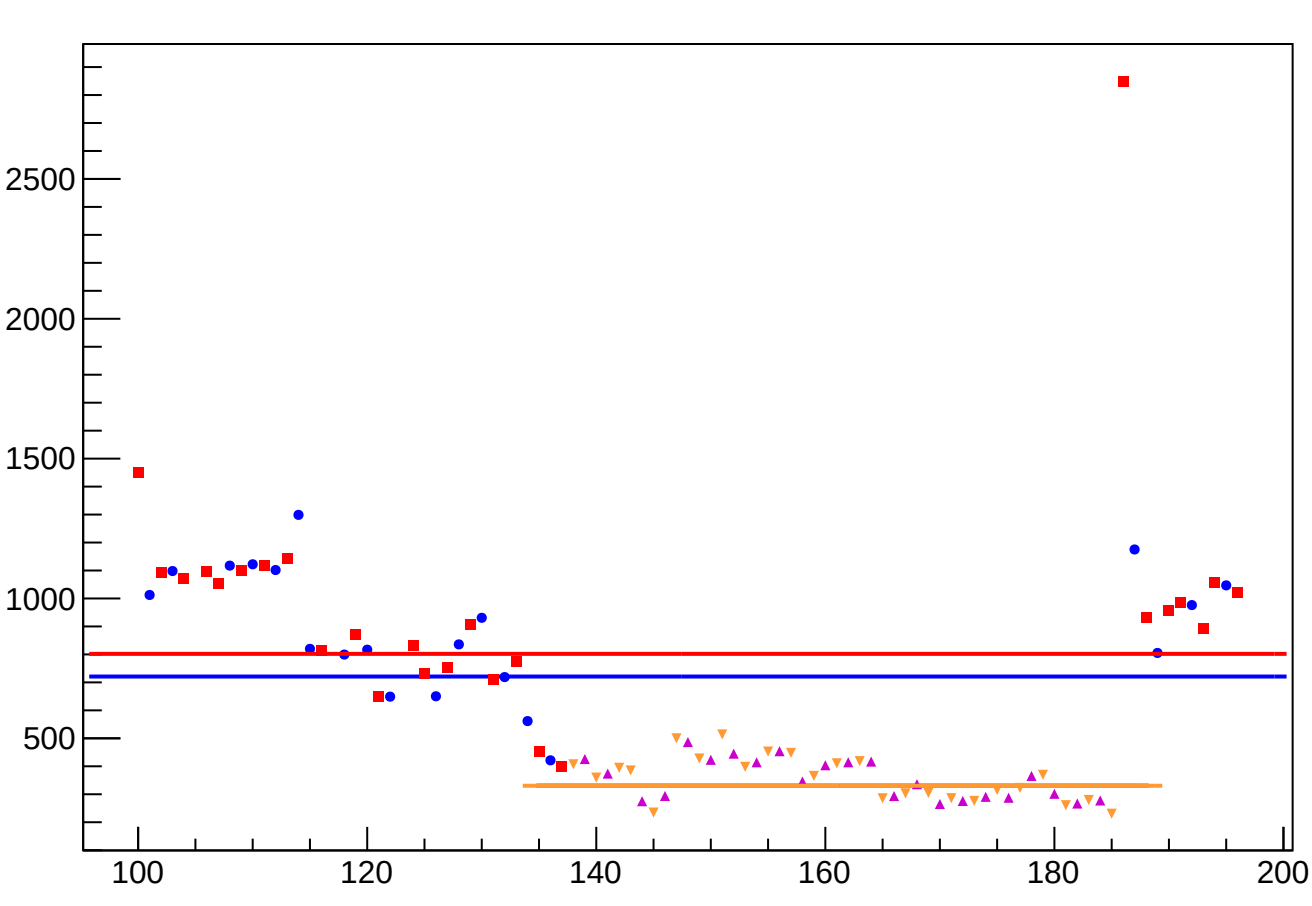
Left: 52.783+/-55.233 $\chi^2$/NDF: 66.1/47

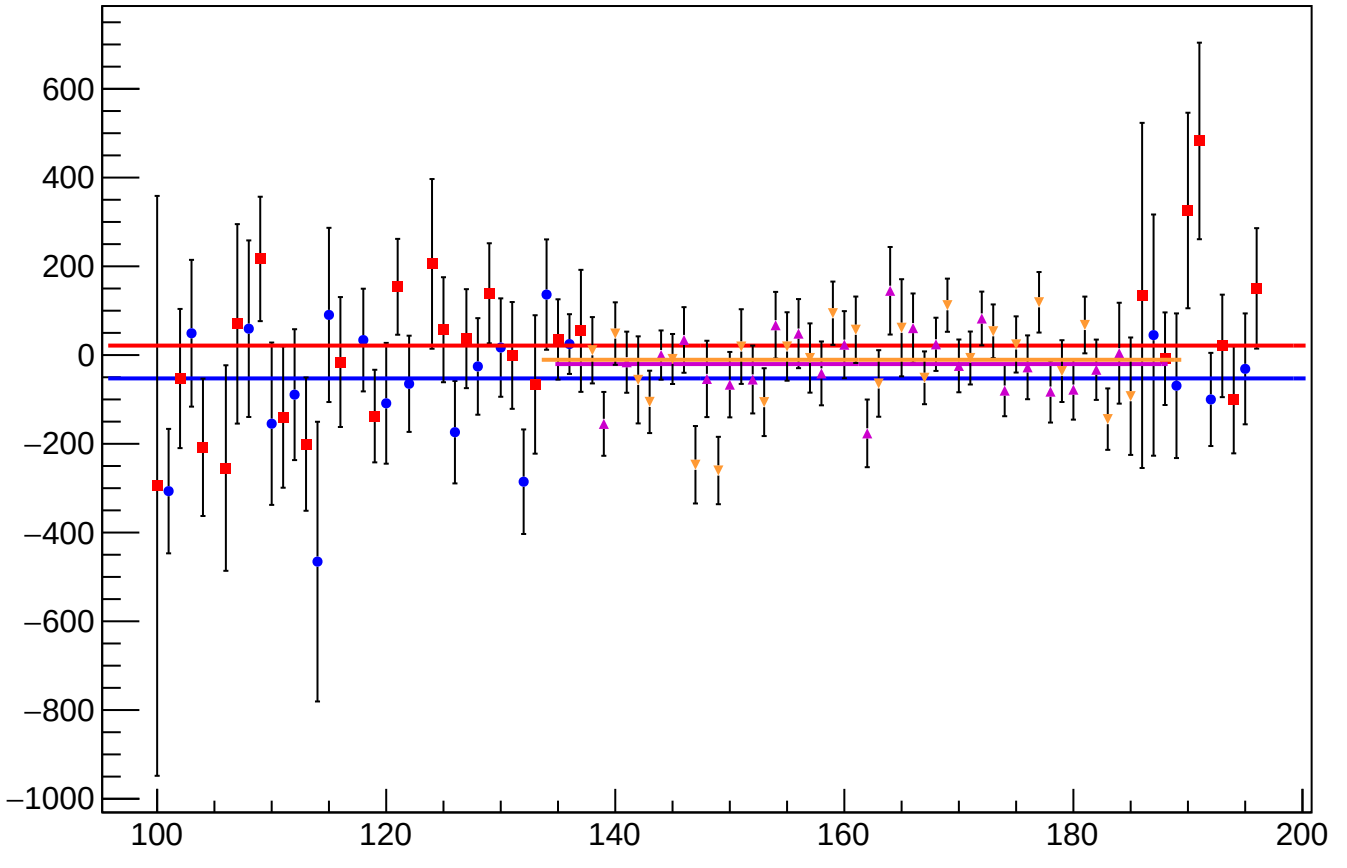
Right: 133.697+/-172.943 $\chi^2$/NDF: 45.6/45

In: 56.656+/-75.268 $\chi^2$/NDF:52.8/42

Out: 63.727+/-73.577 $\chi^2$/NDF:59.1/50

All: 60.272+/-52.615 $\chi^2$/NDF: 111.9/93


asym_sam_15_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 720.919+/-0.173 χ²/NDF: 2046246.1/19
Left Out: 330.405+/-0.055 χ²/NDF:1752469.2/24
Right Out: 801.981+/-0.173 χ²/NDF: 2289803.7/25
Left In: 331.058+/-0.056 χ²/NDF:1325610.1/22
Left: 330.724+/-0.039 χ²/NDF: 3078149.1/47
Right: 761.270+/-0.122 χ²/NDF: 4445897.2/45
In: 368.145+/-0.053 χ²/NDF:7990573.6/42
Out: 372.894+/-0.052 χ²/NDF:10777673.0/50
All: 370.573+/-0.037 χ²/NDF: 18772318.7/93




Right In: -52.610+/-28.371 $\chi^2$/NDF: 16.8/19

Left Out: -10.614+/-14.311 $\chi^2$/NDF:42.2/24

Right Out: 21.370+/-27.094 $\chi^2$/NDF: 24.0/25

Left In: -20.306+/-14.750 $\chi^2$/NDF:21.7/22

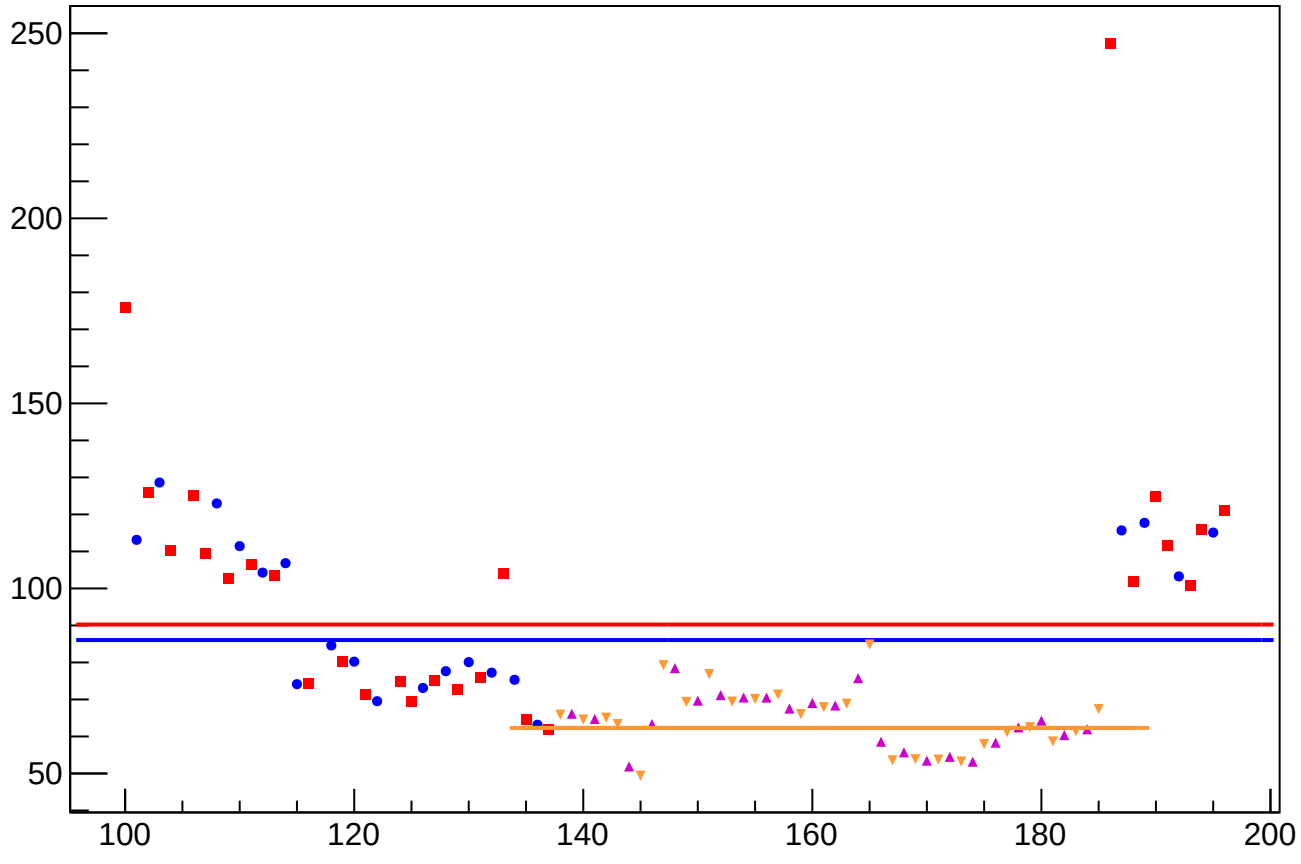
Left: -15.313+/-10.271 $\chi^2$/NDF: 64.1/47

Right: -13.918+/-19.594 $\chi^2$/NDF: 44.4/45

In: -27.180+/-13.087 $\chi^2$/NDF:39.5/42

Out: -3.637+/-12.654 $\chi^2$/NDF:67.3/50

All: -15.013+/-9.097 $\chi^2$/NDF: 108.5/93




Right In: 86.055+/-0.020 $\chi^2$/NDF: 972339.1/19

Left Out: 62.316+/-0.010 $\chi^2$/NDF:636269.1/24

Right Out: 90.253+/-0.019 $\chi^2$/NDF: 1466508.5/25

Left In: 62.310+/-0.010 $\chi^2$/NDF:484549.5/22

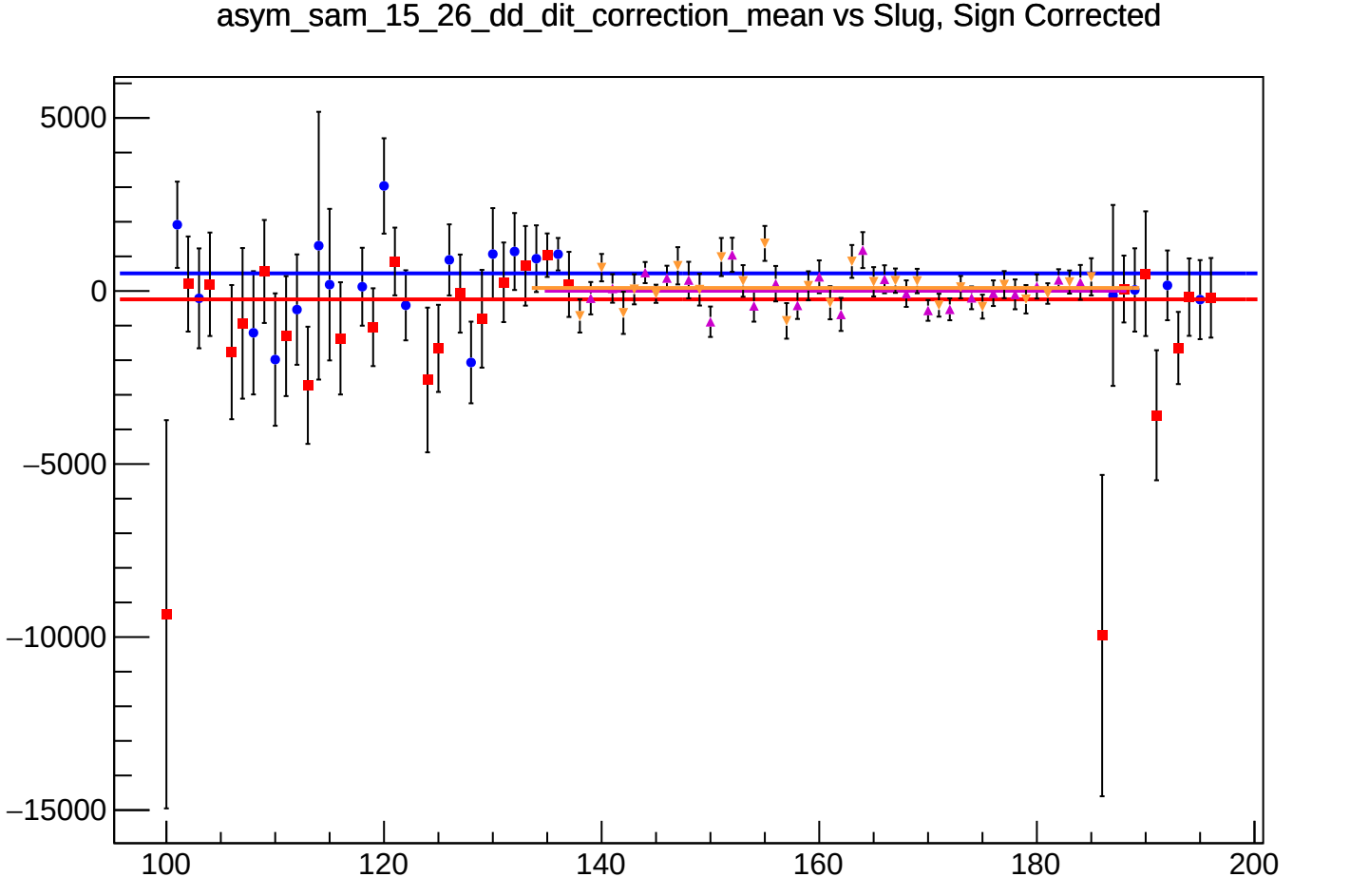
Left: 62.313+/-0.007 $\chi^2$/NDF: 1120818.8/47

Right: 88.251+/-0.014 $\chi^2$/NDF: 2461751.3/45

In: 67.363+/-0.009 $\chi^2$/NDF:2559748.7/42

Out: 68.410+/-0.009 $\chi^2$/NDF:3765329.7/50

All: 67.904+/-0.006 $\chi^2$/NDF: 6331696.4/93




Right In: 509.336+/-250.716 $\chi^2$/NDF: 16.7/19

Left Out: 86.985+/-79.837 $\chi^2$/NDF:31.7/24

Right Out: -241.578+/-247.411 $\chi^2$/NDF: 26.2/25

Left In: 6.497+/-82.111 $\chi^2$/NDF:32.4/22

Left: 47.871+/-57.240 $\chi^2$/NDF: 64.6/47

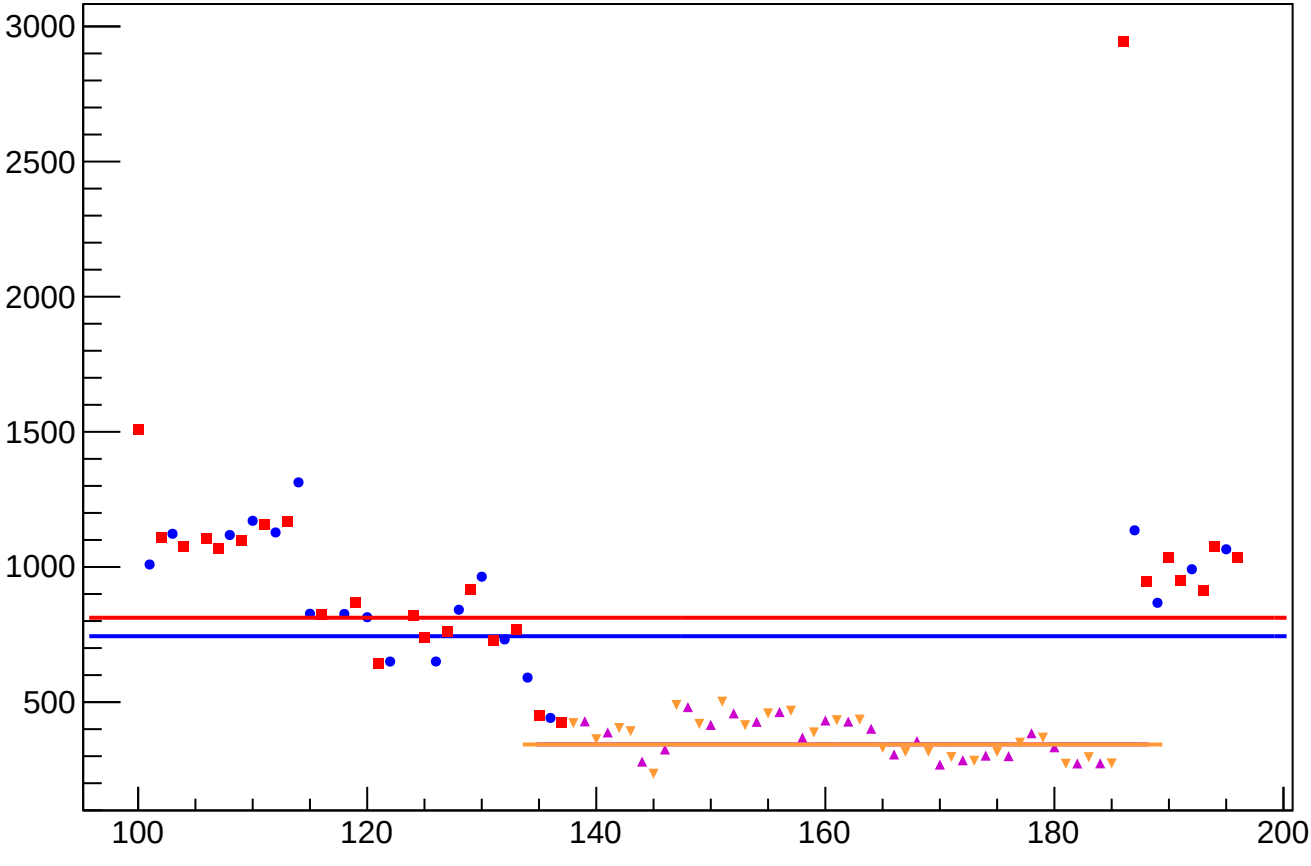
Right: 128.897+/-176.103 $\chi^2$/NDF: 47.4/45

In: 55.206+/-78.032 $\chi^2$/NDF:52.8/42

Out: 55.999+/-75.979 $\chi^2$/NDF:59.4/50

All: 55.613+/-54.437 $\chi^2$/NDF: 112.2/93

asym_sam_15_26_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 743.882+/-0.177 $\chi^2$/NDF: 1920988.8/19

Left Out: 343.225+/-0.056 $\chi^2$/NDF:1595394.3/24

Right Out: 812.204+/-0.175 $\chi^2$/NDF: 2312433.1/25

Left In: 343.717+/-0.058 $\chi^2$/NDF:1258376.8/22

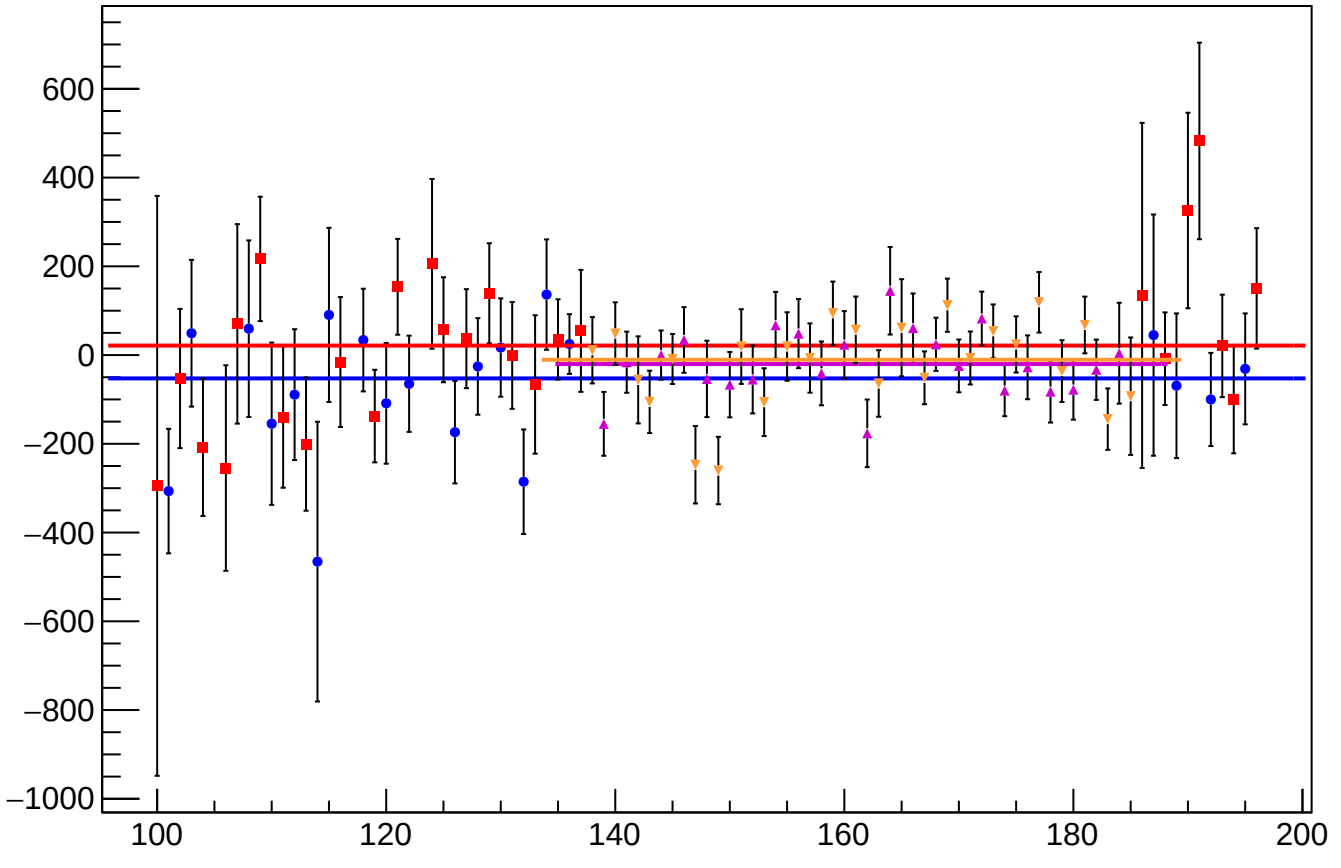
Left: 343.464+/-0.040 $\chi^2$/NDF: 2853808.0/47

Right: 778.496+/-0.125 $\chi^2$/NDF: 4308669.1/45

In: 382.480+/-0.055 $\chi^2$/NDF:7780807.7/42

Out: 387.453+/-0.054 $\chi^2$/NDF:10416312.9/50

All: 385.033+/-0.038 $\chi^2$/NDF: 18201290.0/93




Right In: -52.610+/-28.370 $\chi^2$/NDF: 16.8/19

Left Out: -10.613+/-14.311 $\chi^2$/NDF:42.2/24

Right Out: 21.370+/-27.094 $\chi^2$/NDF: 24.0/25

Left In: -20.306+/-14.750 $\chi^2$/NDF:21.7/22

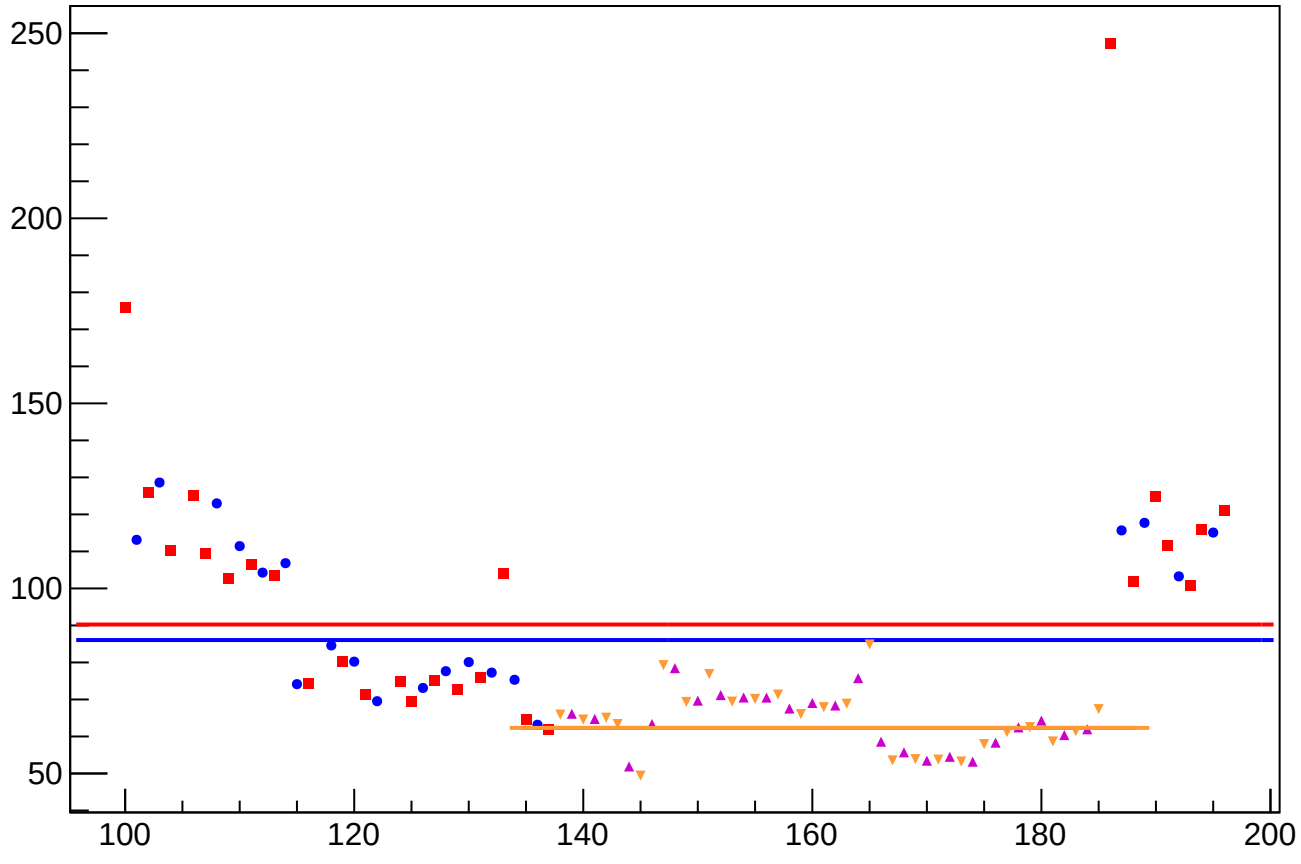
Left: -15.313+/-10.271 $\chi^2$/NDF: 64.1/47

Right: -13.918+/-19.594 $\chi^2$/NDF: 44.4/45

In: -27.180+/-13.087 $\chi^2$/NDF:39.5/42

Out: -3.637+/-12.654 $\chi^2$/NDF:67.3/50

All: -15.012+/-9.097 $\chi^2$/NDF: 108.5/93




Right In: 86.055+/-0.020 $\chi^2$/NDF: 972345.1/19

Left Out: 62.316+/-0.010 $\chi^2$/NDF:636268.2/24

Right Out: 90.253+/-0.019 $\chi^2$/NDF: 1466496.2/25

Left In: 62.311+/-0.010 $\chi^2$/NDF:484544.3/22

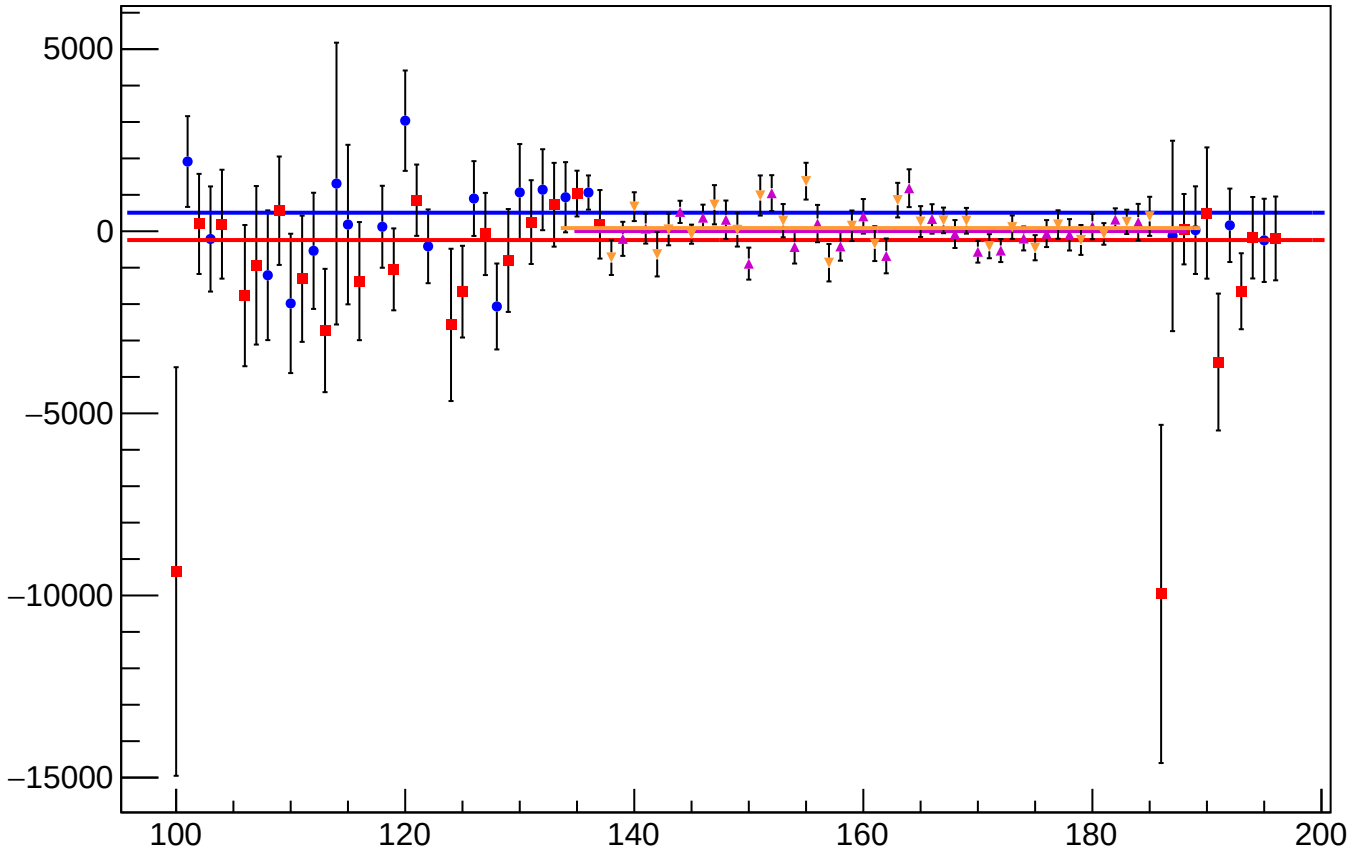
Left: 62.314+/-0.007 $\chi^2$/NDF: 1120812.6/47

Right: 88.250+/-0.014 $\chi^2$/NDF: 2461747.0/45

In: 67.363+/-0.009 $\chi^2$/NDF:2559700.1/42

Out: 68.410+/-0.009 $\chi^2$/NDF:3765287.2/50

All: 67.904+/-0.006 $\chi^2$/NDF: 6331604.0/93




Right In: 509.335+/-250.716 $\chi^2$/NDF: 16.7/19

Left Out: 86.985+/-79.837 $\chi^2$/NDF:31.7/24

Right Out: -241.579+/-247.411 $\chi^2$/NDF: 26.2/25

Left In: 6.497+/-82.111 $\chi^2$/NDF:32.4/22

Left: 47.871+/-57.240 $\chi^2$/NDF: 64.6/47

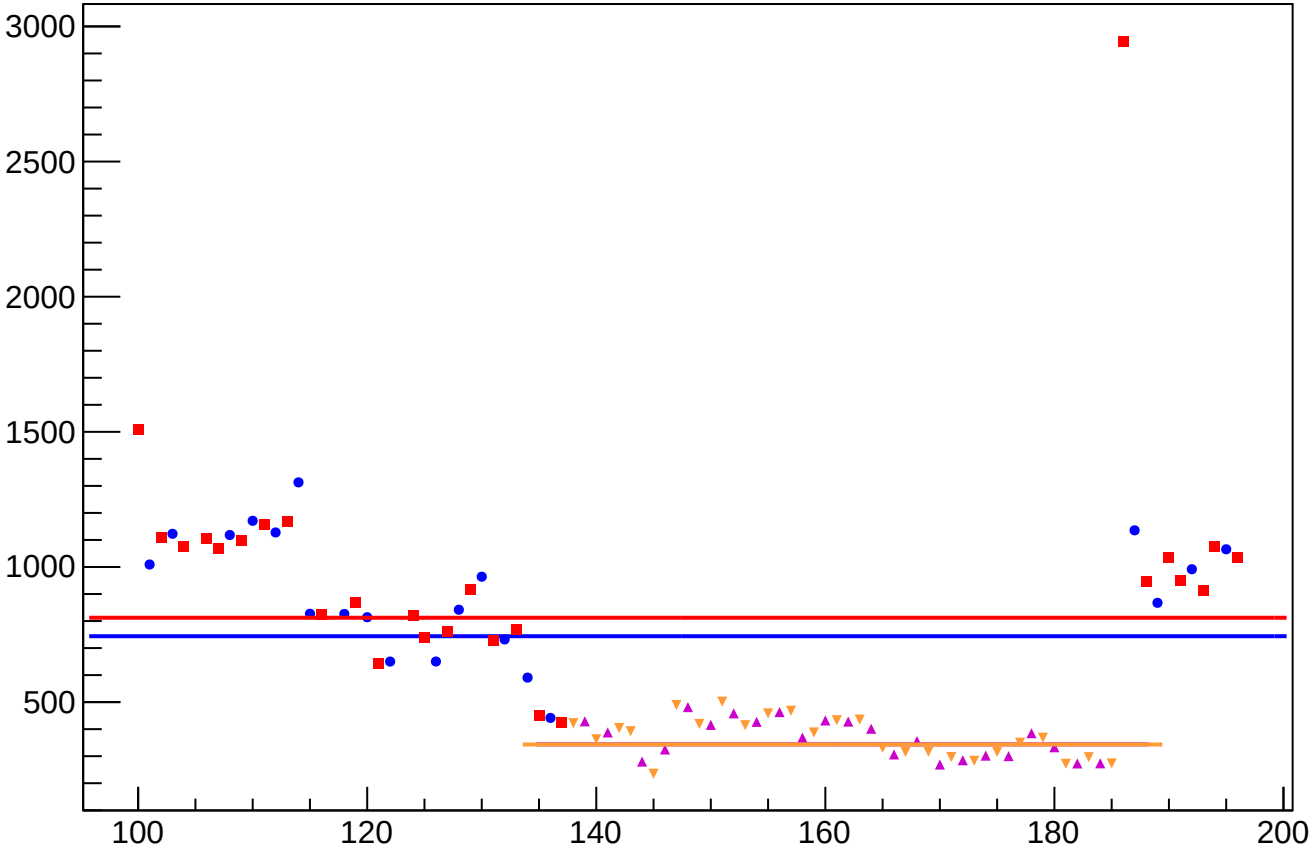
Right: 128.896+/-176.103 $\chi^2$/NDF: 47.4/45

In: 55.207+/-78.032 $\chi^2$/NDF:52.8/42

Out: 55.999+/-75.979 $\chi^2$/NDF:59.4/50

All: 55.613+/-54.437 $\chi^2$/NDF: 112.2/93

asym_sam_15_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 743.881+/-0.177 $\chi^2$/NDF: 1920977.5/19

Left Out: 343.225+/-0.056 $\chi^2$/NDF:1595415.4/24

Right Out: 812.203+/-0.175 $\chi^2$/NDF: 2312426.7/25

Left In: 343.717+/-0.058 $\chi^2$/NDF:1258392.0/22

Left: 343.464+/-0.040 $\chi^2$/NDF: 2853844.3/47

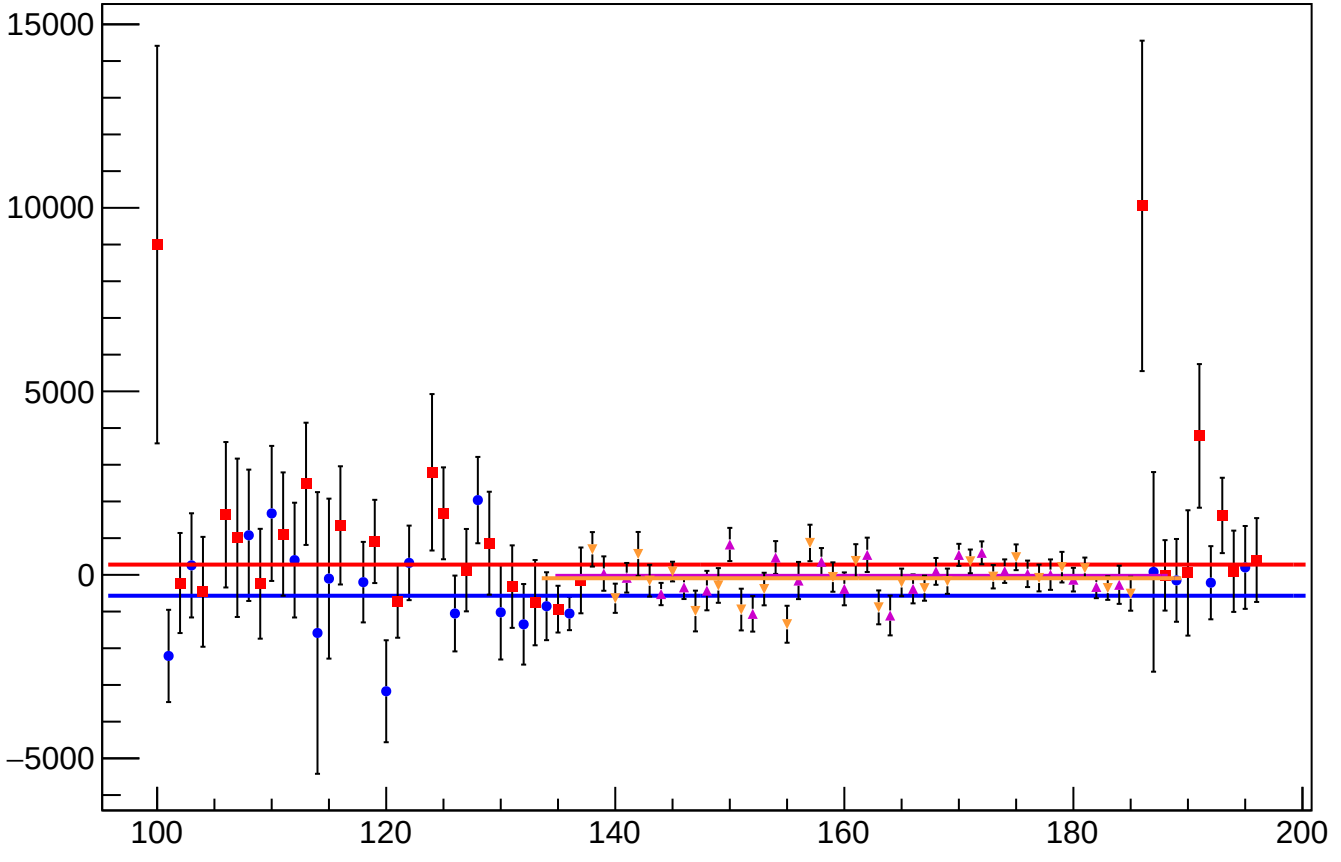
Right: 778.495+/-0.125 $\chi^2$/NDF: 4308651.4/45

In: 382.481+/-0.055 $\chi^2$/NDF:7780800.4/42

Out: 387.453+/-0.054 $\chi^2$/NDF:10416316.0/50

All: 385.033+/-0.038 $\chi^2$/NDF: 18201285.6/93

# asym_sam_15_26_dd_mean vs Slug, Sign Corrected




Right In: -569.148+/-245.528 $\chi^2$/NDF: 17.1/19

Left Out: -92.671+/-78.184 $\chi^2$/NDF:34.2/24

Right Out: 279.404+/-246.141 $\chi^2$/NDF: 25.0/25

Left In: -27.173+/-80.207 $\chi^2$/NDF:30.9/22

Left: -60.759+/-55.986 $\chi^2$/NDF: 65.4/47

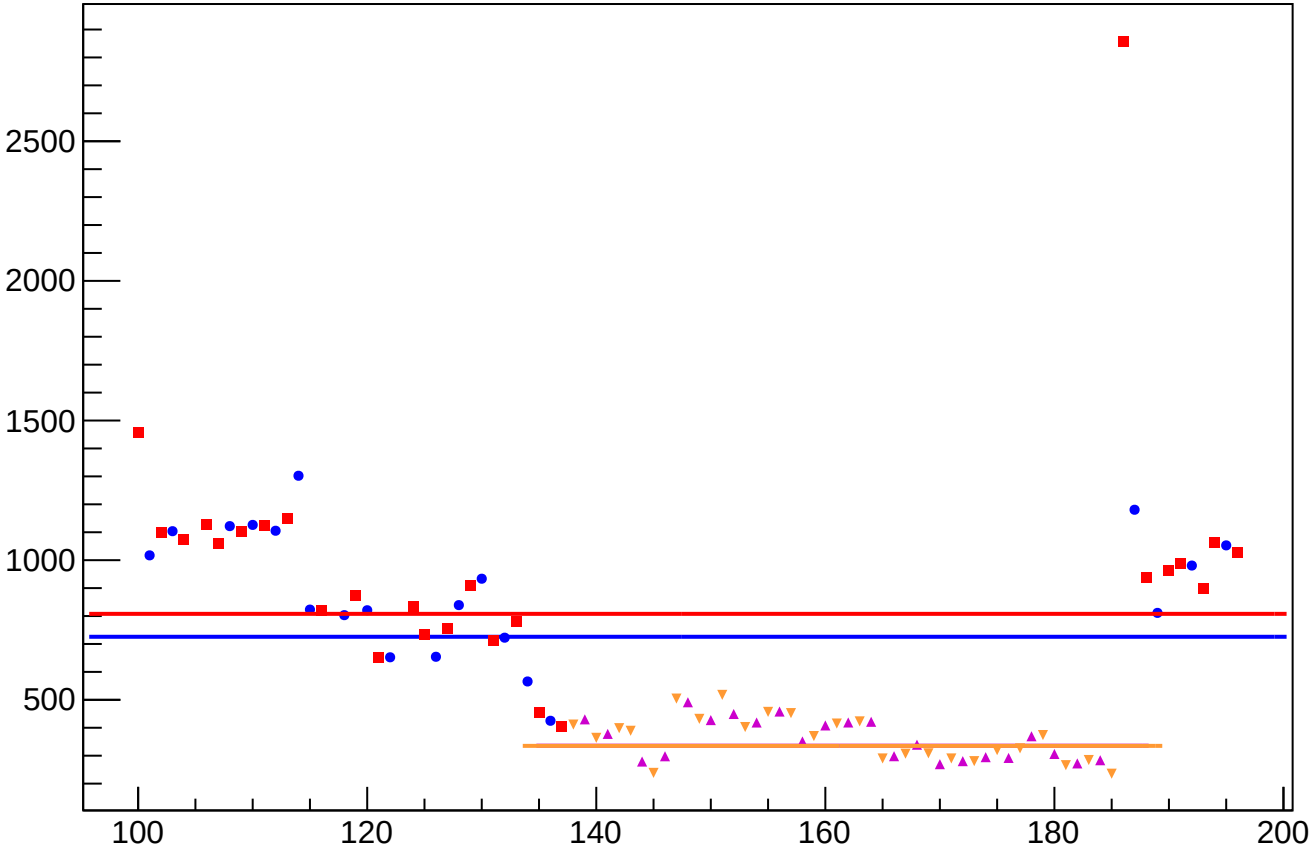
Right: -145.930+/-173.831 $\chi^2$/NDF: 48.0/45

In: -79.434+/-76.242 $\chi^2$/NDF:52.4/42

Out: -58.571+/-74.515 $\chi^2$/NDF:61.3/50

All: -68.763+/-53.290 $\chi^2$/NDF: 113.7/93

# asym_sam_15_26_dd_rms vs Slug, Sign Corrected




Right In: 725.744+/-0.174 $\chi^2$/NDF: 2026715.5/19

Left Out: 335.150+/-0.055 $\chi^2$/NDF:1706014.2/24

Right Out: 807.814+/-0.174 $\chi^2$/NDF: 2290348.5/25

Left In: 335.787+/-0.057 $\chi^2$/NDF:1291376.5/22

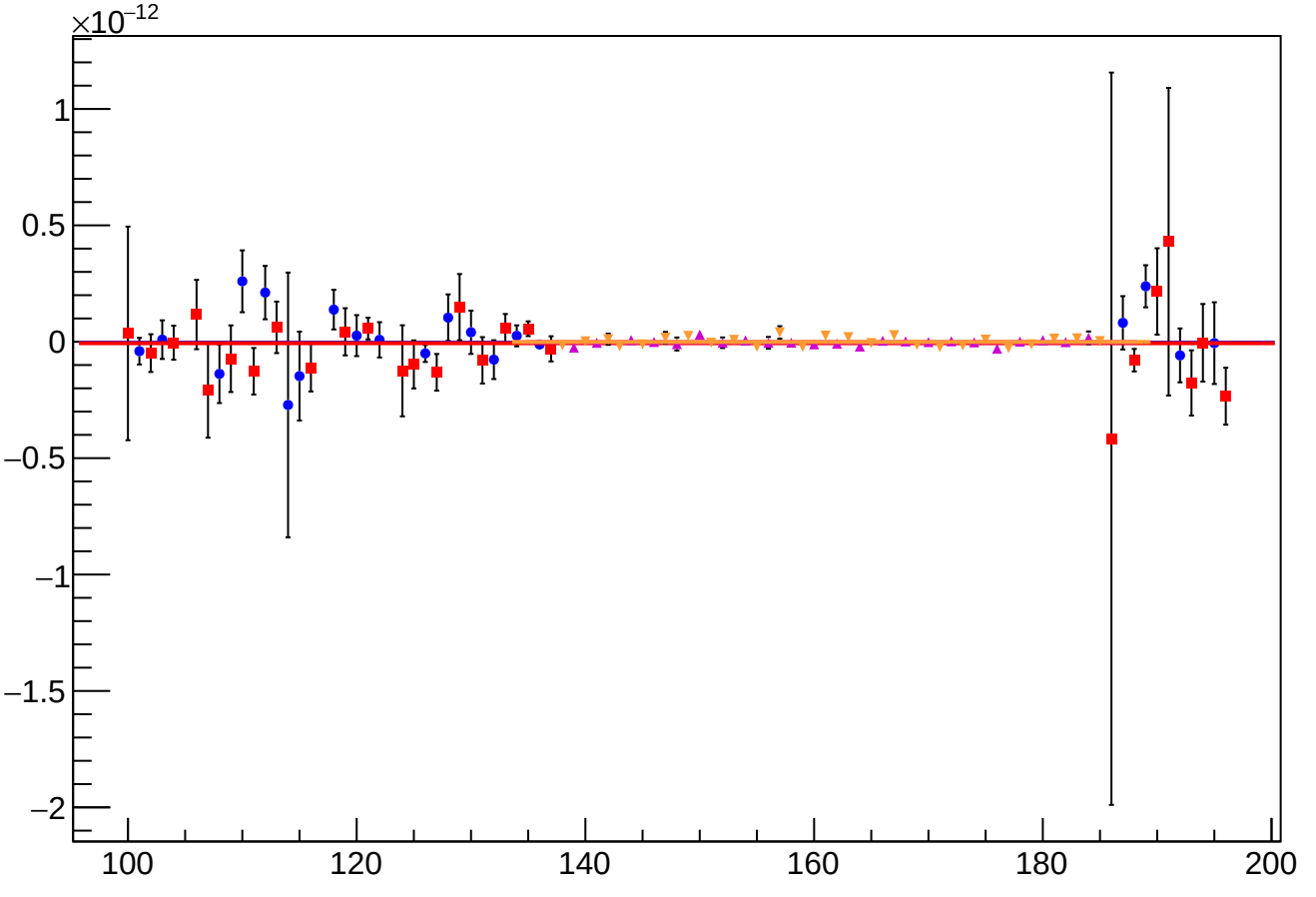
Left: 335.460+/-0.040 $\chi^2$/NDF: 2997455.5/47

Right: 766.677+/-0.123 $\chi^2$/NDF: 4428515.4/45

In: 373.389+/-0.054 $\chi^2$/NDF:7876612.3/42

Out: 378.469+/-0.053 $\chi^2$/NDF:10695541.7/50

All: 375.987+/-0.038 $\chi^2$/NDF: 18576694.8/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 25.3/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:33.3/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 26.9/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:14.8/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 48.1/47

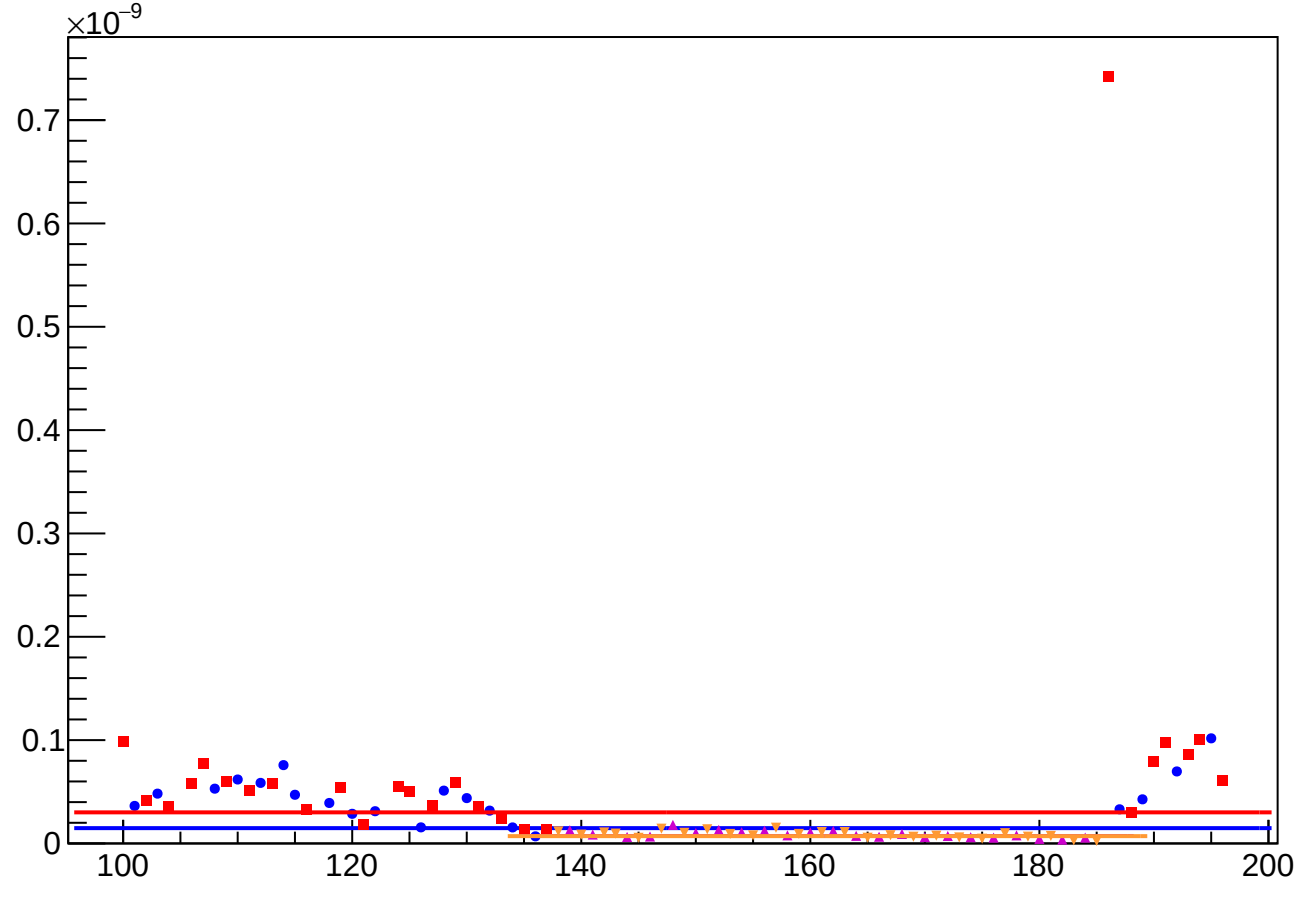
Right: -0.000+/-0.000 $\chi^2$/NDF: 52.2/45

In: -0.000+/-0.000 $\chi^2$/NDF:40.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:60.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 100.4/93

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4256302.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2000233.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3165036.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1604062.0/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3606525.6/47

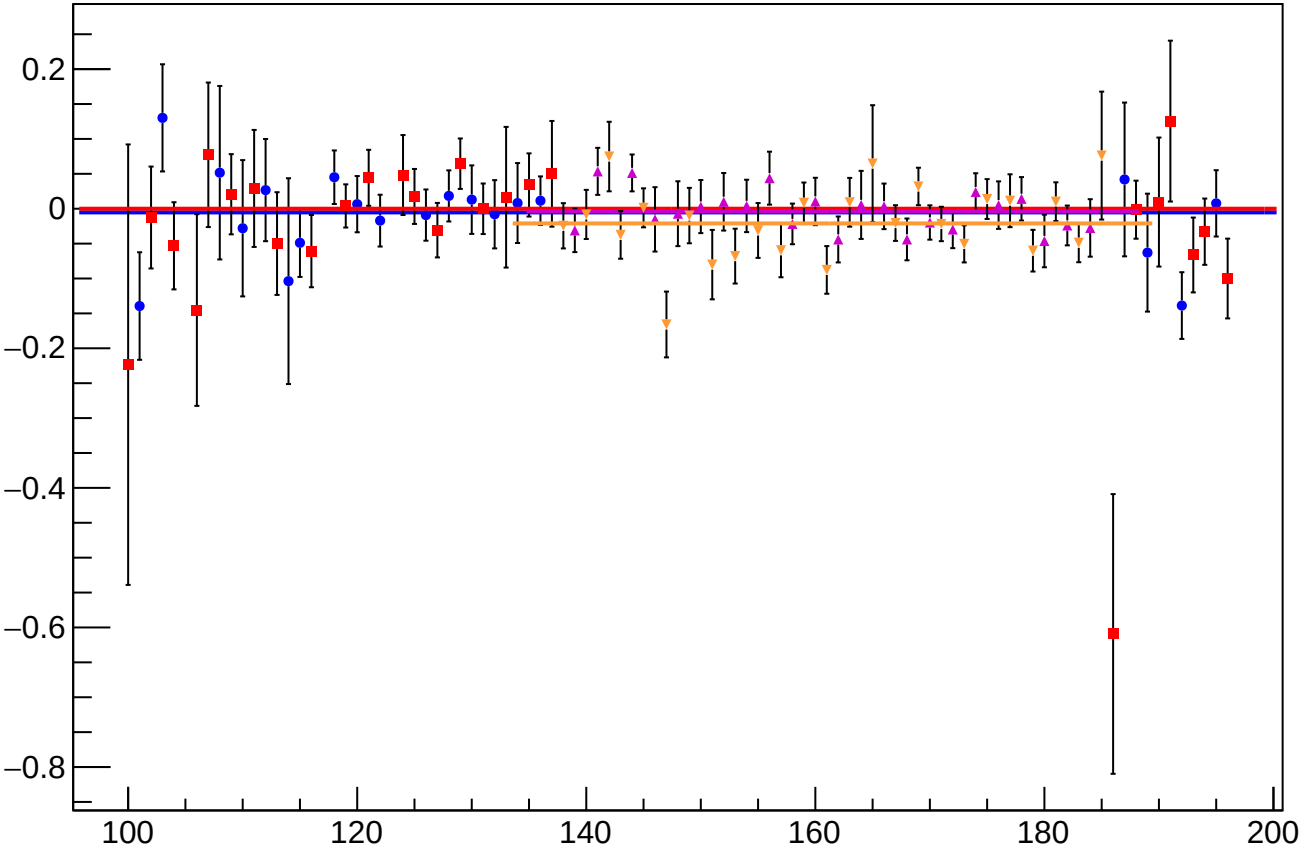
Right: 0.000+/-0.000 $\chi^2$/NDF: 8719374.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:6870015.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9216791.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16086817.3/93

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.011 $\chi^2$/NDF: 19.1/19

Left Out: -0.021+/-0.007 $\chi^2$/NDF:37.2/24

Right Out: -0.000+/-0.011 $\chi^2$/NDF: 27.5/25

Left In: -0.004+/-0.007 $\chi^2$/NDF:18.7/22

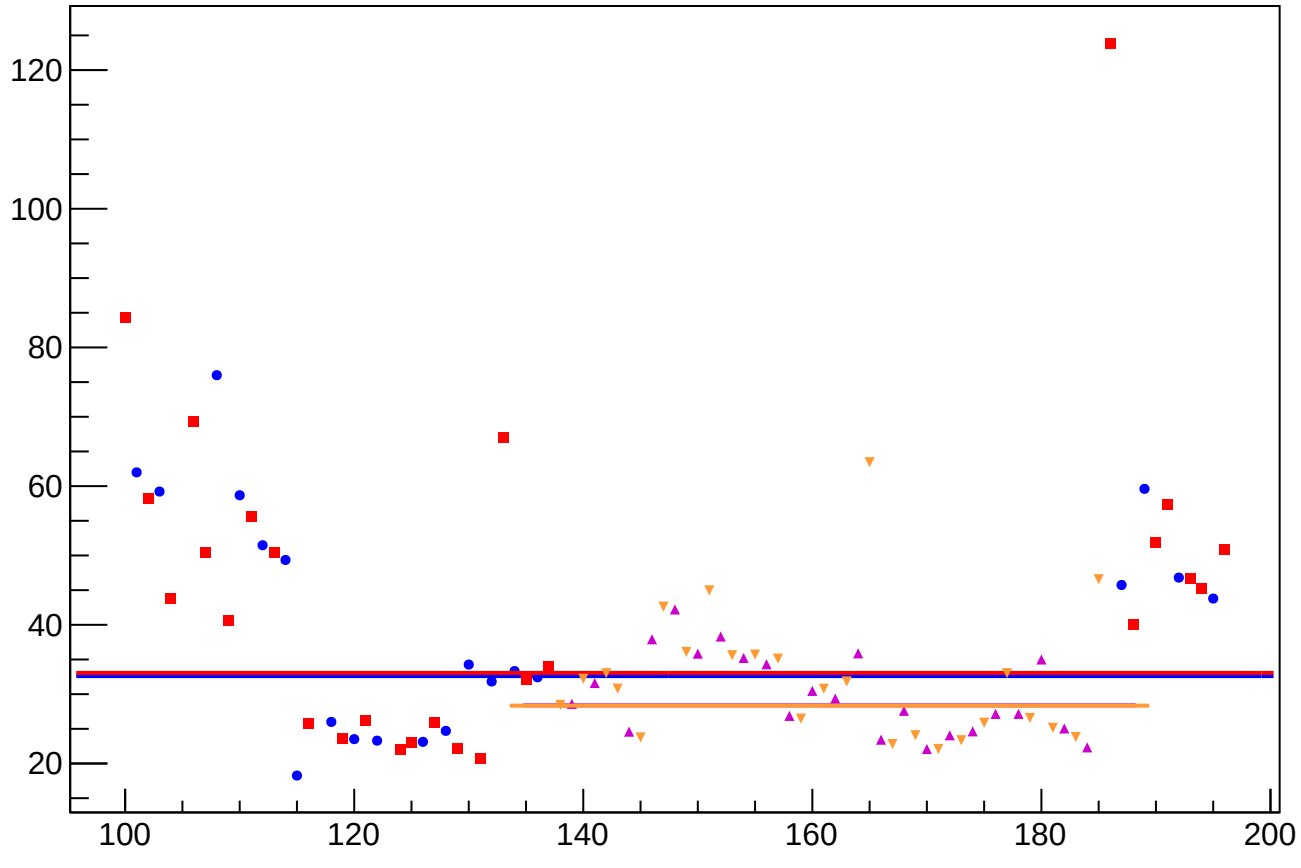
Left: -0.013+/-0.005 $\chi^2$/NDF: 59.1/47

Right: -0.002+/-0.008 $\chi^2$/NDF: 46.8/45

In: -0.004+/-0.006 $\chi^2$/NDF:37.8/42

Out: -0.015+/-0.006 $\chi^2$/NDF:67.5/50

All: -0.010+/-0.004 $\chi^2$/NDF: 107.1/93




Right In: 32.605+/-0.008 $\chi^2$/NDF: 2284891.1/19

Left Out: 28.342+/-0.005 $\chi^2$/NDF:1733592.1/24

Right Out: 33.067+/-0.007 $\chi^2$/NDF: 3128261.9/25

Left In: 28.389+/-0.005 $\chi^2$/NDF:1098849.1/22

Left: 28.365+/-0.003 $\chi^2$/NDF: 2832490.4/47

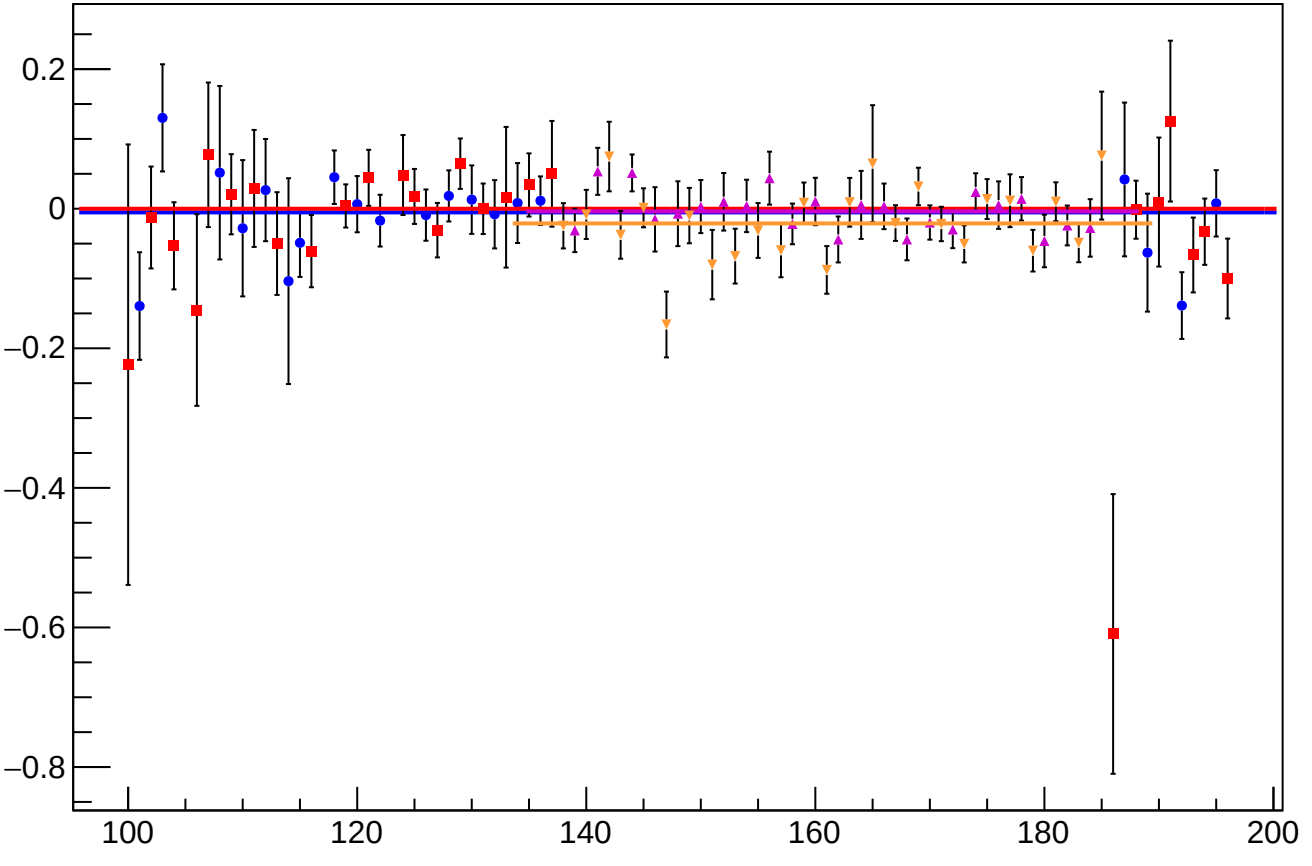
Right: 32.854+/-0.005 $\chi^2$/NDF: 5414938.1/45

In: 29.514+/-0.004 $\chi^2$/NDF:3585245.7/42

Out: 29.699+/-0.004 $\chi^2$/NDF:5150163.3/50

All: 29.610+/-0.003 $\chi^2$/NDF: 8736440.8/93

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.011 $\chi^2$/NDF: 19.1/19

Left Out: -0.021+/-0.007 $\chi^2$/NDF:37.2/24

Right Out: -0.000+/-0.011 $\chi^2$/NDF: 27.5/25

Left In: -0.004+/-0.007 $\chi^2$/NDF:18.7/22

Left: -0.013+/-0.005 $\chi^2$/NDF: 59.1/47

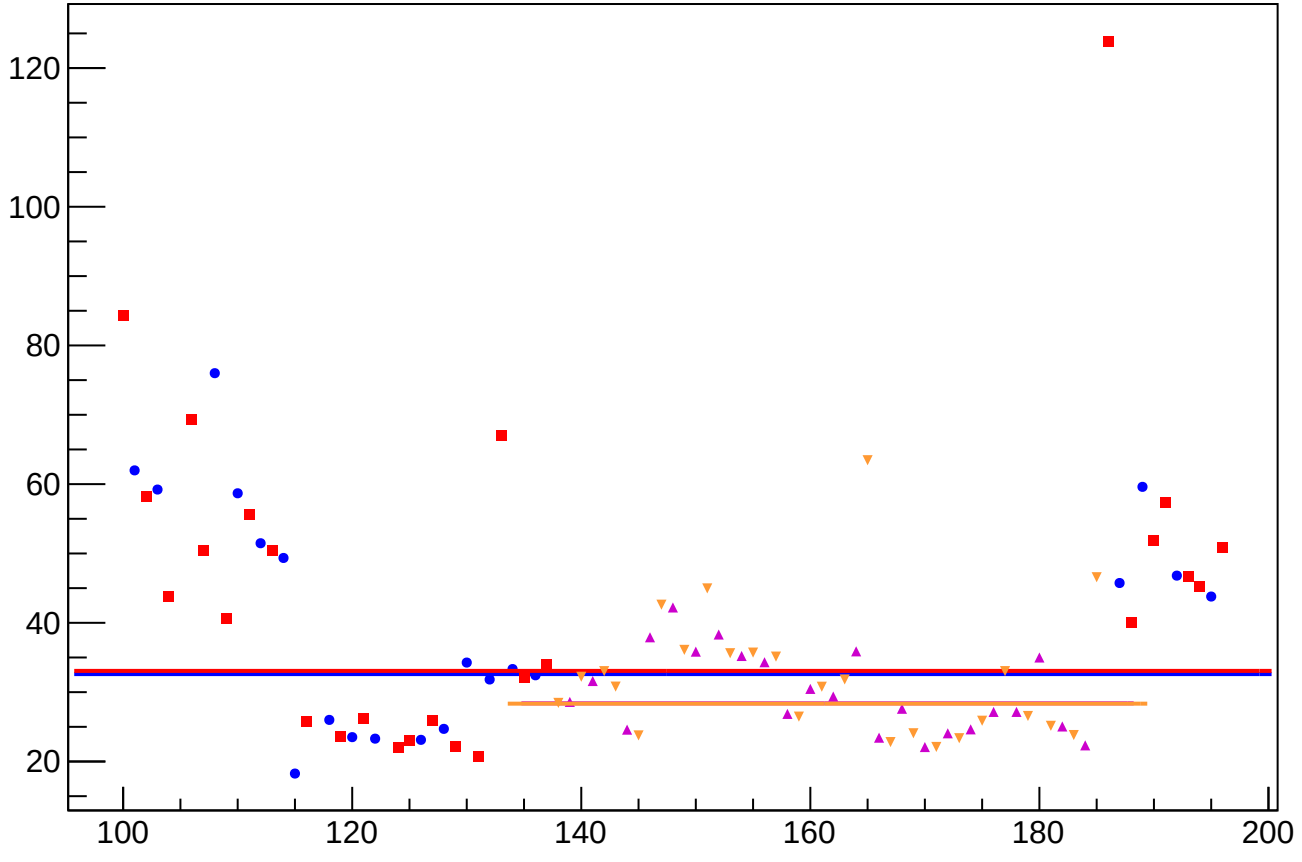
Right: -0.002+/-0.008 $\chi^2$/NDF: 46.8/45

In: -0.004+/-0.006 $\chi^2$/NDF:37.8/42

Out: -0.015+/-0.006 $\chi^2$/NDF:67.5/50

All: -0.010+/-0.004 $\chi^2$/NDF: 107.1/93

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 32.605+/-0.008 $\chi^2$/NDF: 2284891.1/19

Left Out: 28.342+/-0.005 $\chi^2$/NDF:1733592.1/24

Right Out: 33.067+/-0.007 $\chi^2$/NDF: 3128261.9/25

Left In: 28.389+/-0.005 $\chi^2$/NDF:1098849.1/22

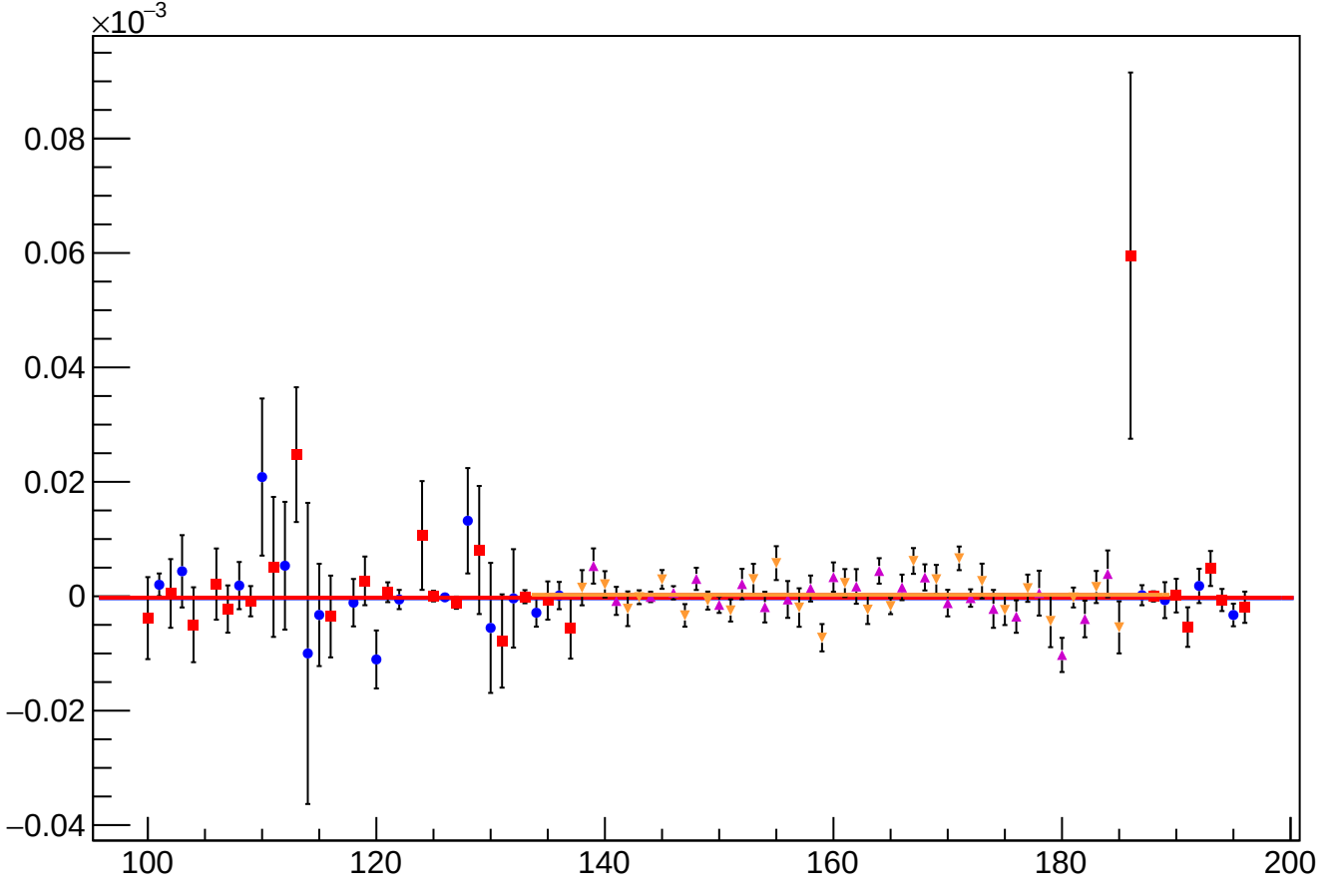
Left: 28.365+/-0.003 $\chi^2$/NDF: 2832490.4/47

Right: 32.854+/-0.005 $\chi^2$/NDF: 5414938.1/45

In: 29.514+/-0.004 $\chi^2$/NDF:3585245.7/42

Out: 29.699+/-0.004 $\chi^2$/NDF:5150163.3/50

All: 29.610+/-0.003 $\chi^2$/NDF: 8736440.8/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 16.0/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:50.8/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:33.2/22

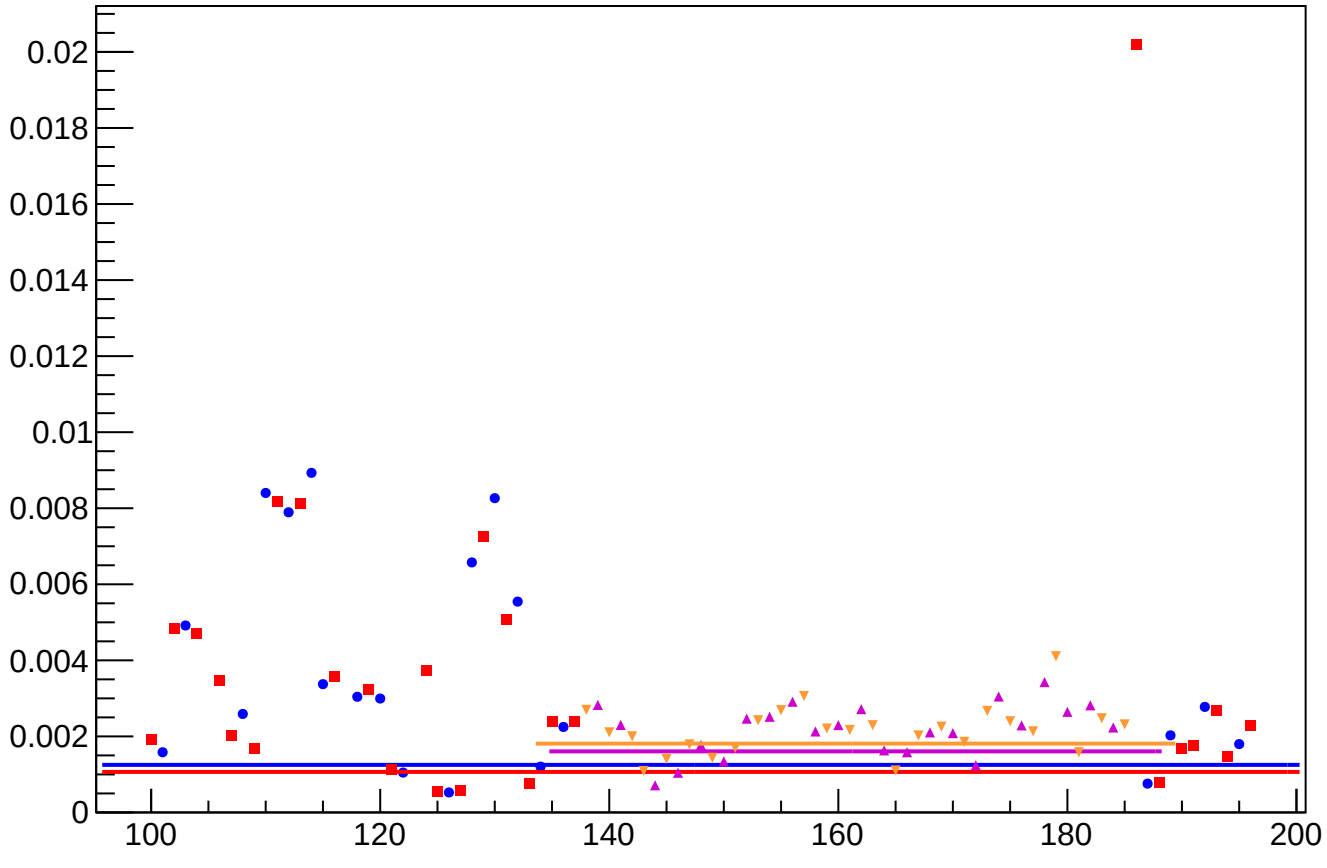
Left: 0.000+/-0.000 $\chi^2$/NDF: 84.0/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 36.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:49.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:71.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 121.8/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7871837.4/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:3433566.6/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9085237.3/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:6034225.5/22

Left: 0.002+/-0.000 $\chi^2$/NDF: 9693636.7/47

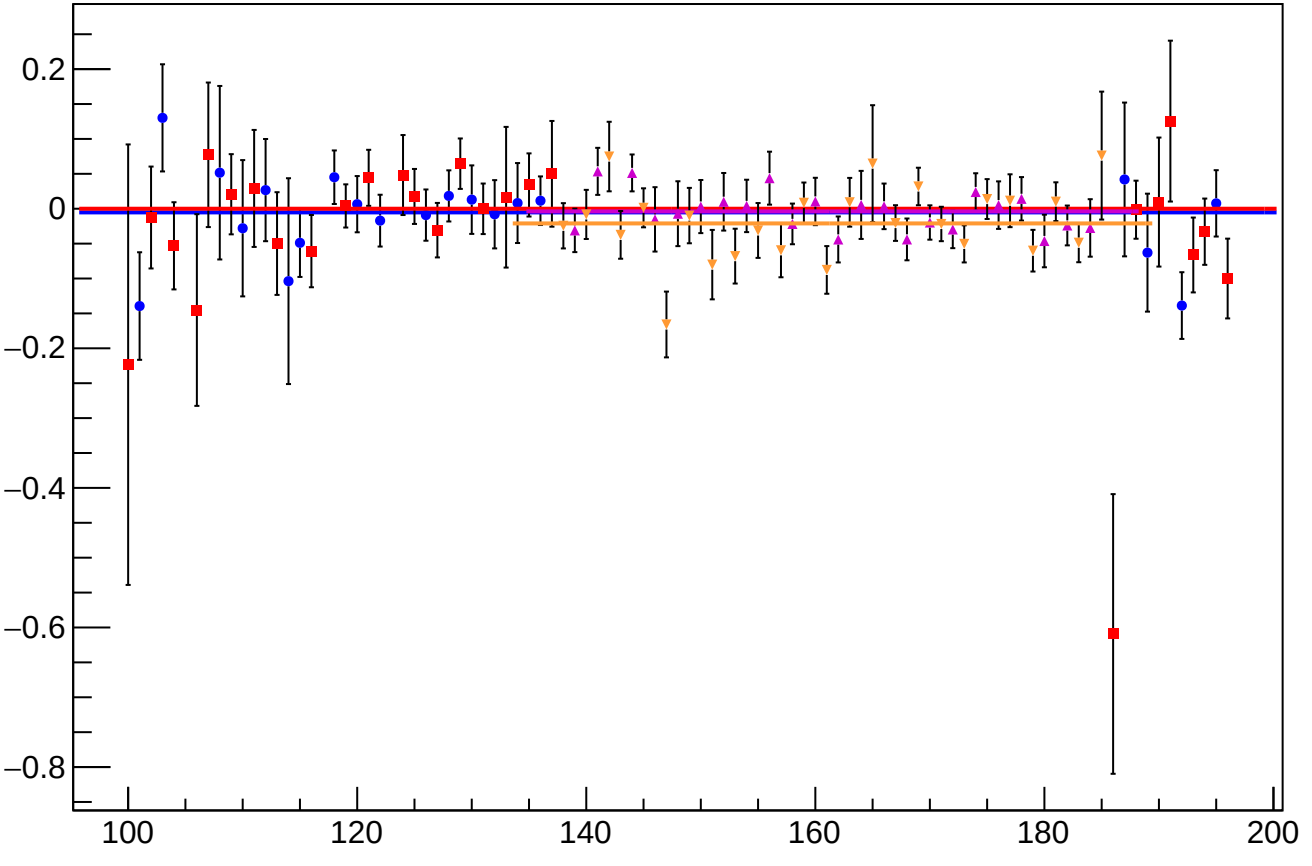
Right: 0.001+/-0.000 $\chi^2$/NDF: 17104065.0/45

In: 0.001+/-0.000 $\chi^2$/NDF:14442649.1/42

Out: 0.001+/-0.000 $\chi^2$/NDF:15543459.1/50

All: 0.001+/-0.000 $\chi^2$/NDF: 30005323.7/93

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.011 $\chi^2$/NDF: 19.1/19

Left Out: -0.021+/-0.007 $\chi^2$/NDF:37.2/24

Right Out: -0.000+/-0.011 $\chi^2$/NDF: 27.5/25

Left In: -0.004+/-0.007 $\chi^2$/NDF:18.7/22

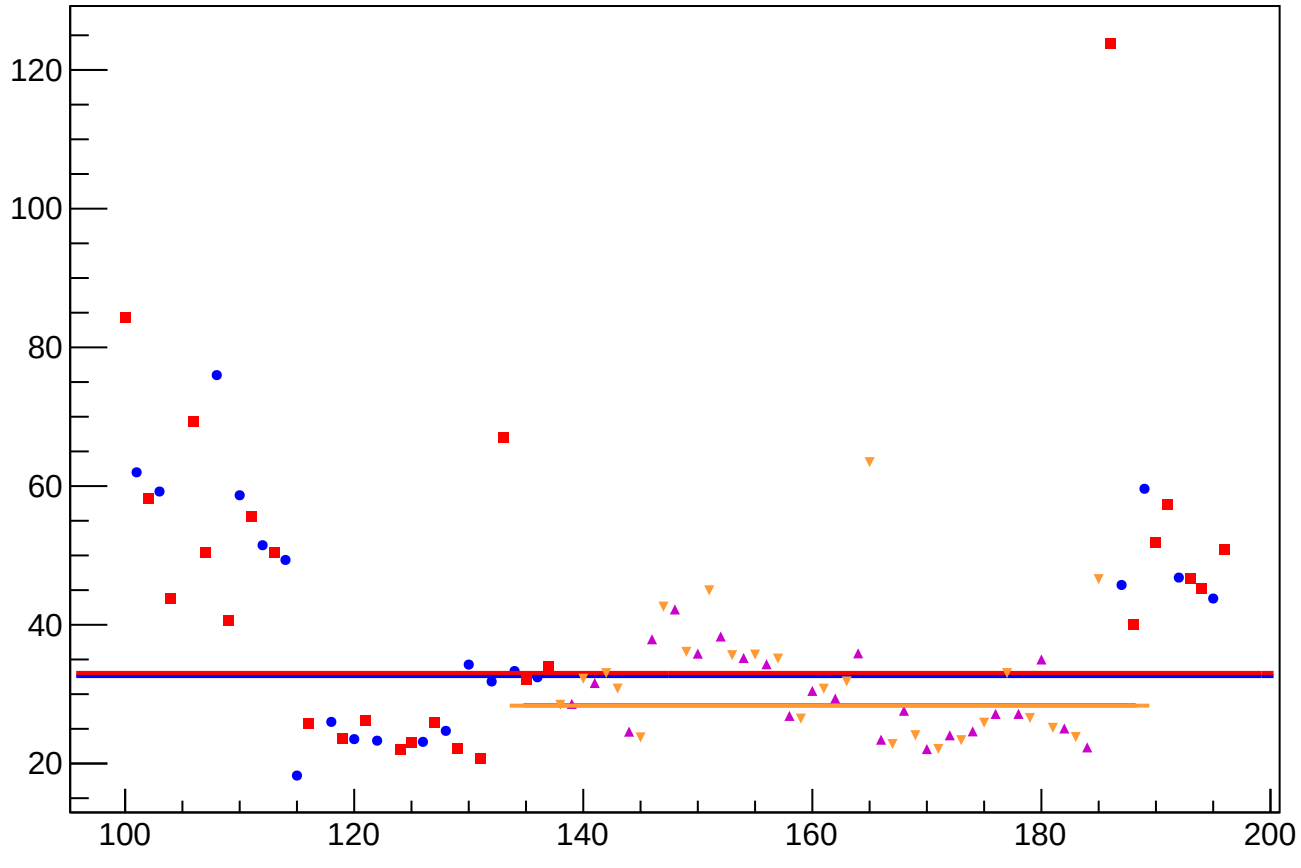
Left: -0.013+/-0.005 $\chi^2$/NDF: 59.1/47

Right: -0.002+/-0.008 $\chi^2$/NDF: 46.8/45

In: -0.004+/-0.006 $\chi^2$/NDF:37.8/42

Out: -0.015+/-0.006 $\chi^2$/NDF:67.5/50

All: -0.010+/-0.004 $\chi^2$/NDF: 107.1/93




Right In: 32.605+/-0.008 $\chi^2$/NDF: 2284740.2/19

Left Out: 28.342+/-0.005 $\chi^2$/NDF:1733585.3/24

Right Out: 33.067+/-0.007 $\chi^2$/NDF: 3128288.9/25

Left In: 28.389+/-0.005 $\chi^2$/NDF:1098852.1/22

Left: 28.365+/-0.003 $\chi^2$/NDF: 2832487.2/47

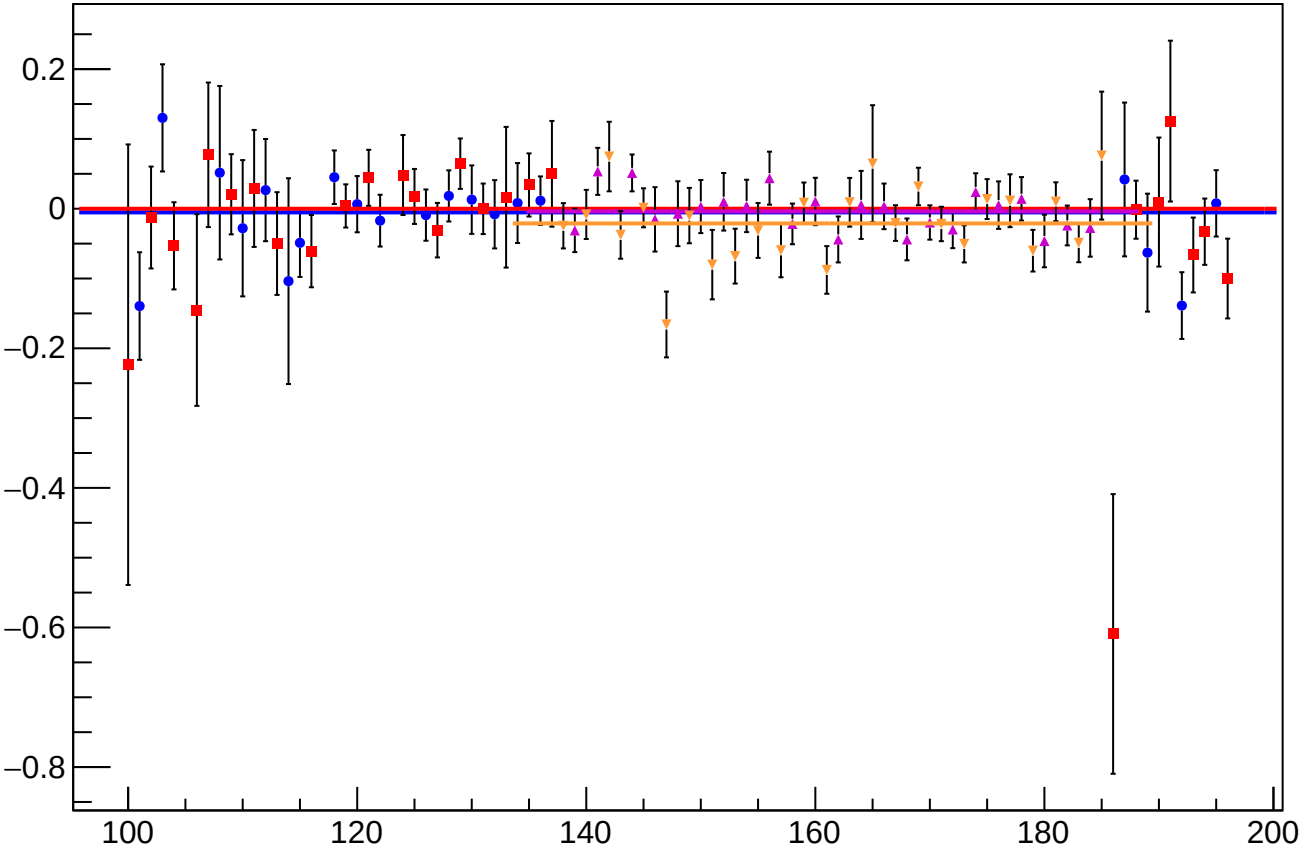
Right: 32.854+/-0.005 $\chi^2$/NDF: 5414810.0/45

In: 29.514+/-0.004 $\chi^2$/NDF:3585077.4/42

Out: 29.699+/-0.004 $\chi^2$/NDF:5150117.3/50

All: 29.610+/-0.003 $\chi^2$/NDF: 8736223.4/93

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.005+/-0.011 $\chi^2$/NDF: 19.1/19

Left Out: -0.021+/-0.007 $\chi^2$/NDF:37.2/24

Right Out: -0.000+/-0.011 $\chi^2$/NDF: 27.5/25

Left In: -0.004+/-0.007 $\chi^2$/NDF:18.7/22

Left: -0.013+/-0.005 $\chi^2$/NDF: 59.1/47

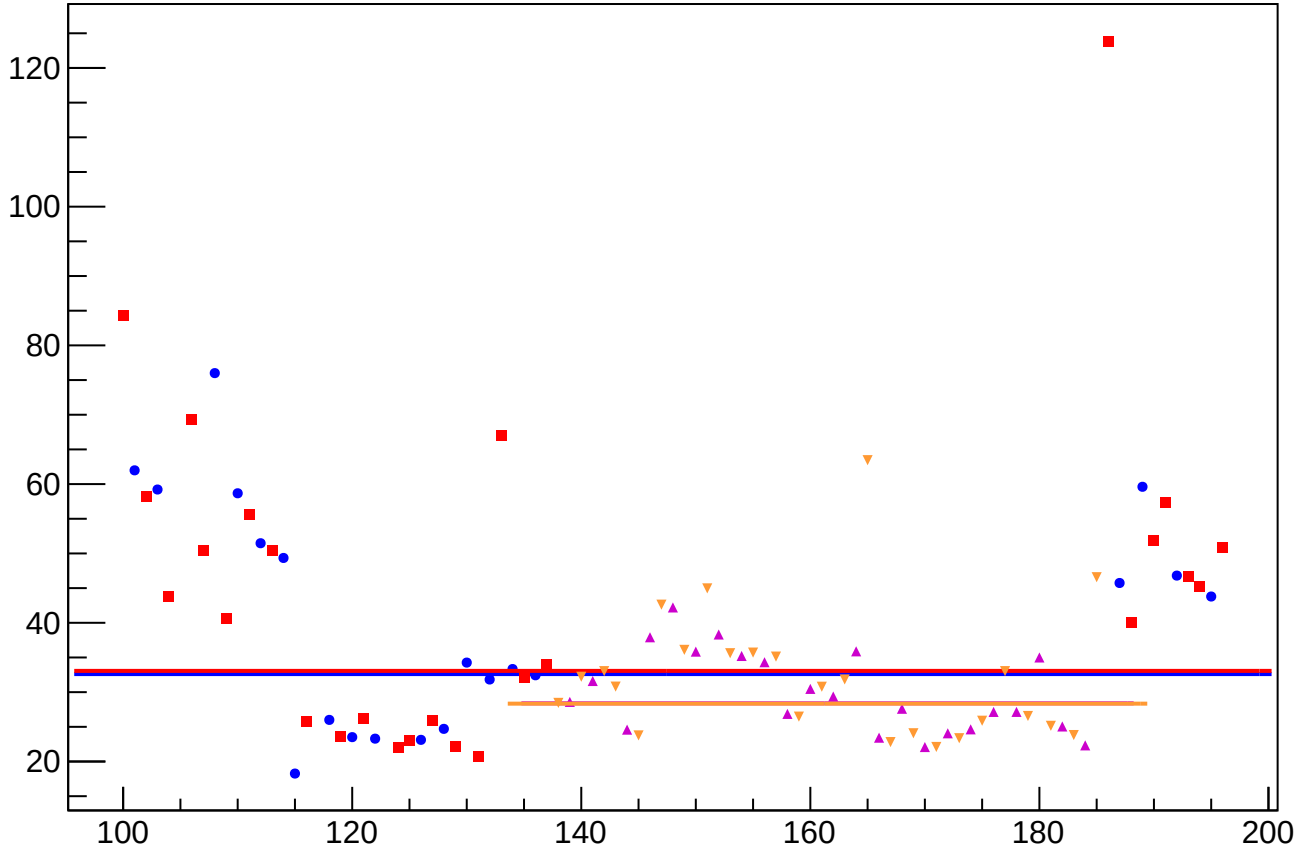
Right: -0.002+/-0.008 $\chi^2$/NDF: 46.8/45

In: -0.004+/-0.006 $\chi^2$/NDF:37.8/42

Out: -0.015+/-0.006 $\chi^2$/NDF:67.5/50

All: -0.010+/-0.004 $\chi^2$/NDF: 107.1/93

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 32.605+/-0.008 $\chi^2$/NDF: 2284740.2/19

Left Out: 28.342+/-0.005 $\chi^2$/NDF:1733585.3/24

Right Out: 33.067+/-0.007 $\chi^2$/NDF: 3128288.9/25

Left In: 28.389+/-0.005 $\chi^2$/NDF:1098852.1/22

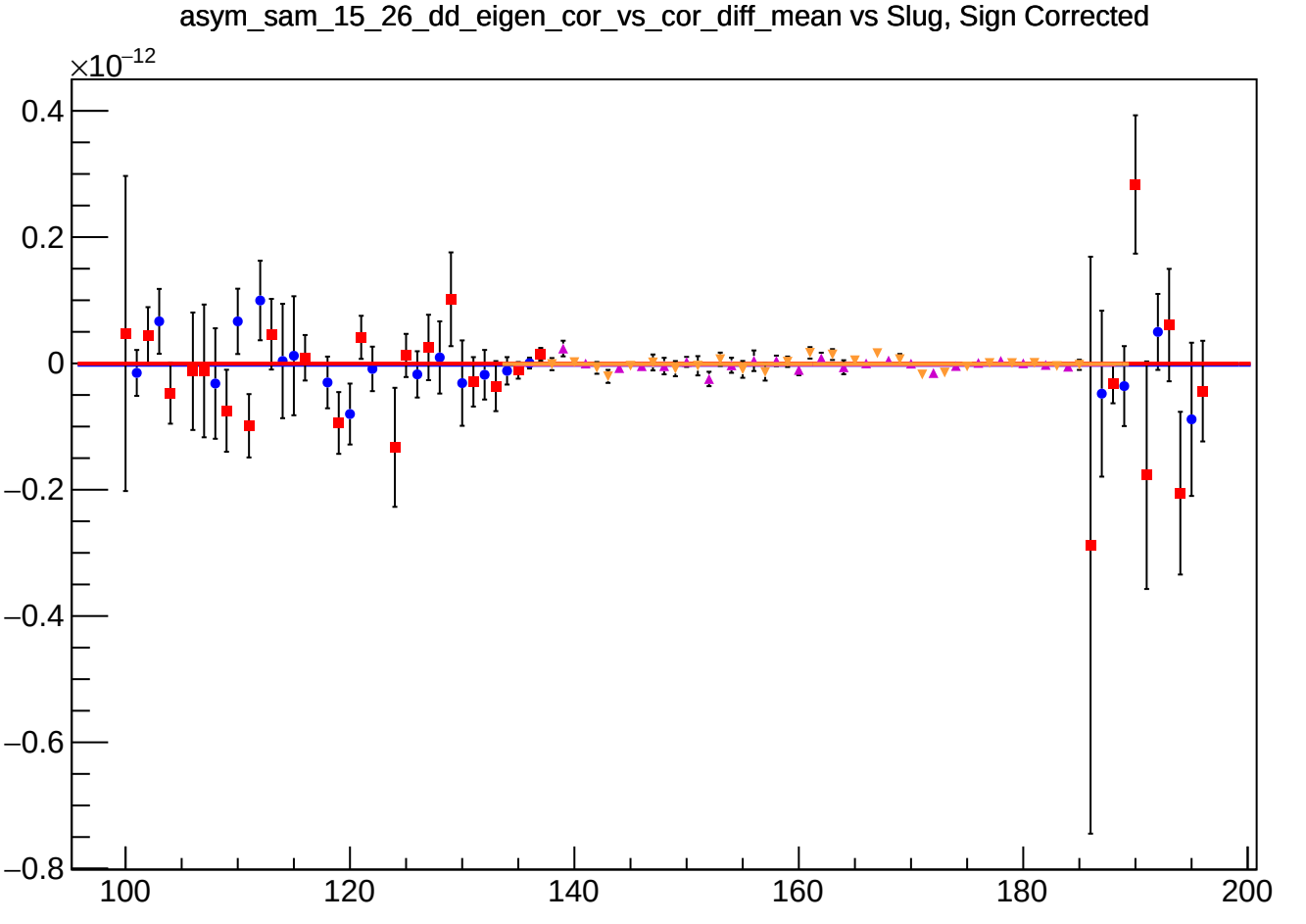
Left: 28.365+/-0.003 $\chi^2$/NDF: 2832487.2/47

Right: 32.854+/-0.005 $\chi^2$/NDF: 5414810.0/45

In: 29.514+/-0.004 $\chi^2$/NDF:3585077.4/42

Out: 29.699+/-0.004 $\chi^2$/NDF:5150117.3/50

All: 29.610+/-0.003 $\chi^2$/NDF: 8736223.4/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 12.1/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:34.1/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 33.8/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.5/22

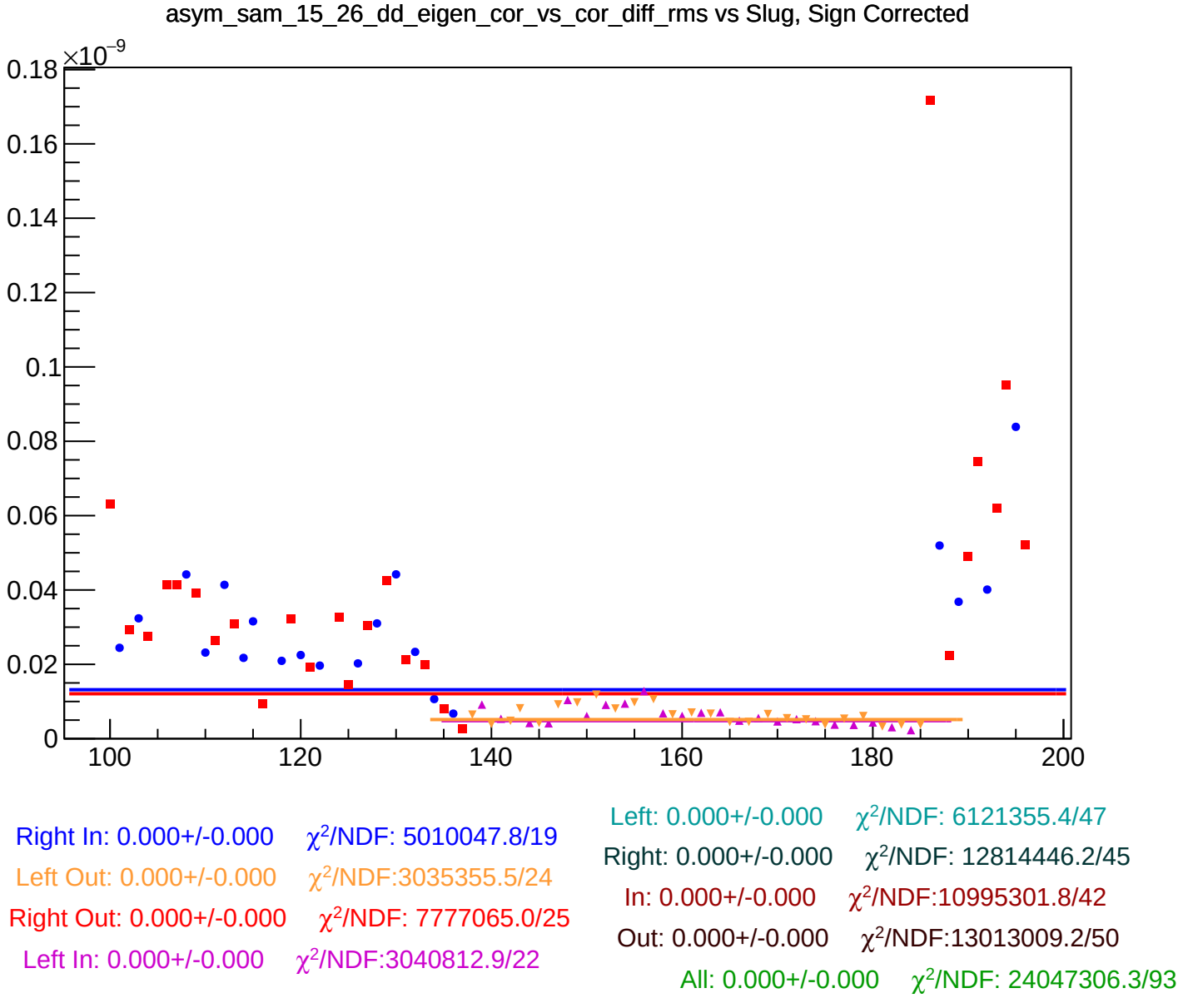
Left: -0.000+/-0.000 $\chi^2$/NDF: 53.8/47

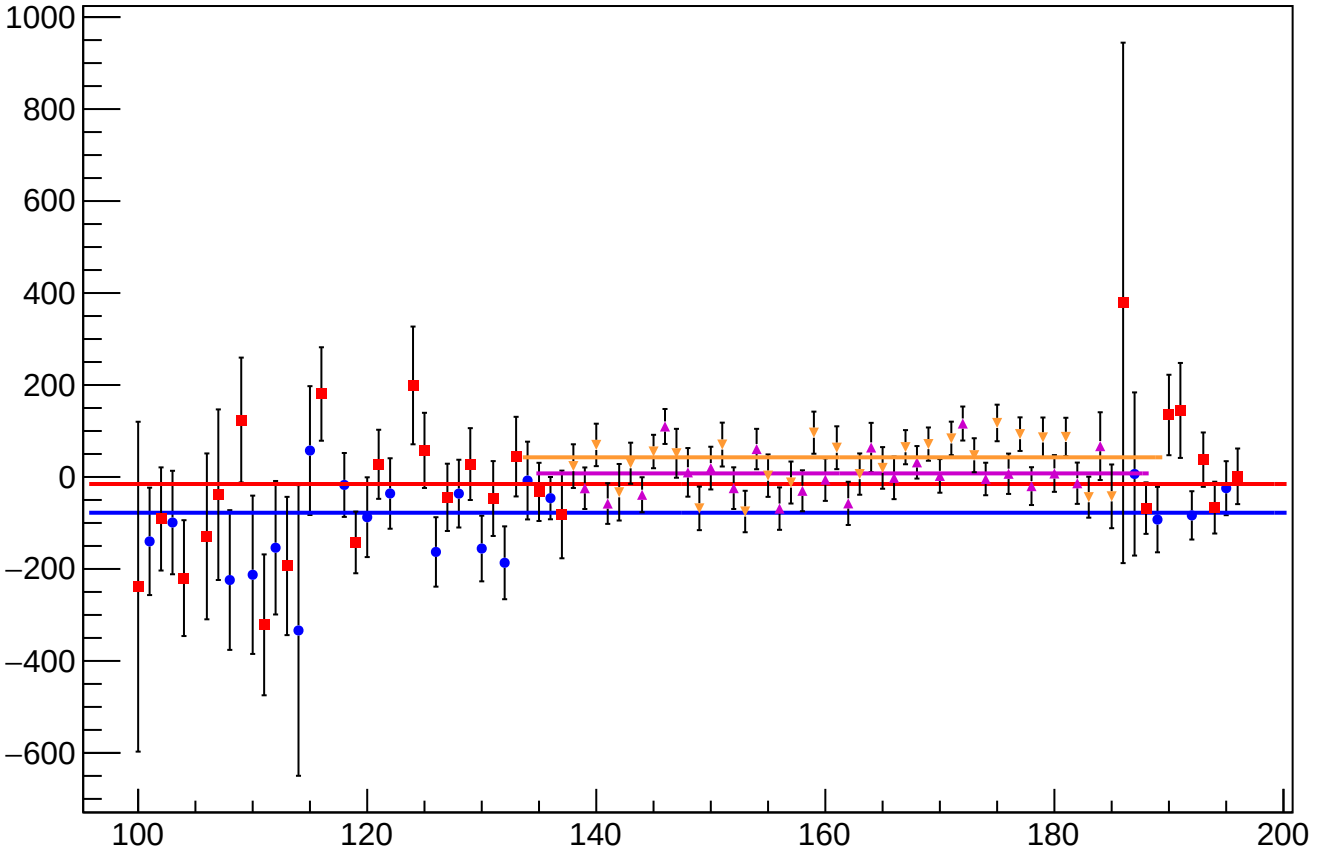
Right: -0.000+/-0.000 $\chi^2$/NDF: 46.0/45

In: -0.000+/-0.000 $\chi^2$/NDF:31.6/42

Out: -0.000+/-0.000 $\chi^2$/NDF:67.9/50

All: -0.000+/-0.000 $\chi^2$/NDF: 99.8/93


asym_sam_15_26_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 5010047.8/19
Left Out: 0.000+/-0.000 χ²/NDF:3035355.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 7777065.0/25
Left In: 0.000+/-0.000 χ²/NDF:3040812.9/22
Left: 0.000+/-0.000 χ²/NDF: 6121355.4/47
Right: 0.000+/-0.000 χ²/NDF: 12814446.2/45
In: 0.000+/-0.000 χ²/NDF:10995301.8/42
Out: 0.000+/-0.000 χ²/NDF:13013009.2/50
All: 0.000+/-0.000 χ²/NDF: 24047306.3/93




Right In: -77.763+/-18.083 $\chi^2$/NDF: 11.7/19

Left Out: 42.765+/-8.698 $\chi^2$/NDF:34.7/24

Right Out: -15.274+/-16.963 $\chi^2$/NDF: 31.6/25

Left In: 7.783+/-8.974 $\chi^2$/NDF:30.6/22

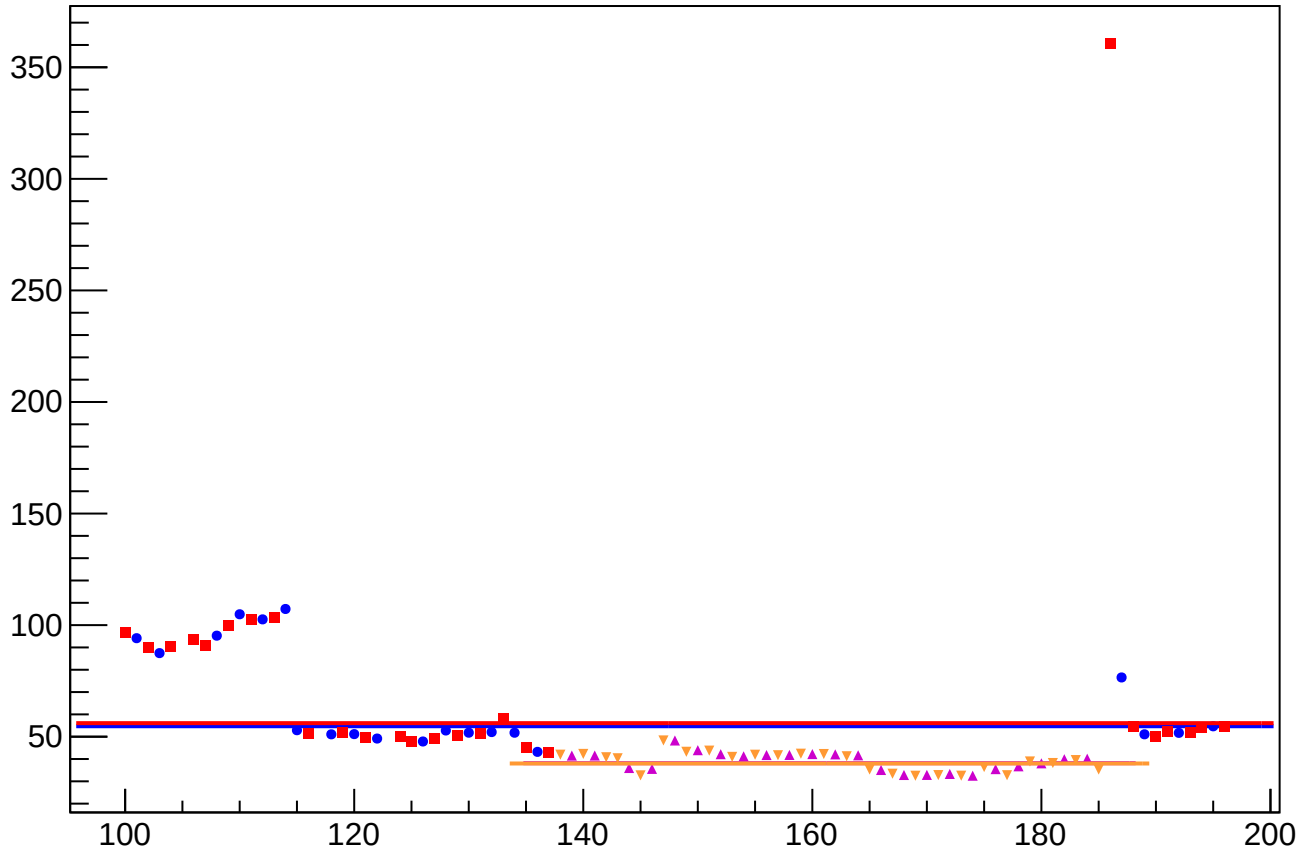
Left: 25.821+/-6.246 $\chi^2$/NDF: 73.2/47

Right: -44.524+/-12.371 $\chi^2$/NDF: 49.7/45

In: -9.123+/-8.039 $\chi^2$/NDF:60.3/42

Out: 30.681+/-7.740 $\chi^2$/NDF:75.7/50

All: 11.533+/-5.576 $\chi^2$/NDF: 148.7/93




Right In: 54.689+/-0.013 $\chi^2$/NDF: 1195646.7/19

Left Out: 37.990+/-0.006 $\chi^2$/NDF:513605.5/24

Right Out: 56.073+/-0.012 $\chi^2$/NDF: 1897779.5/25

Left In: 38.133+/-0.006 $\chi^2$/NDF:428309.7/22

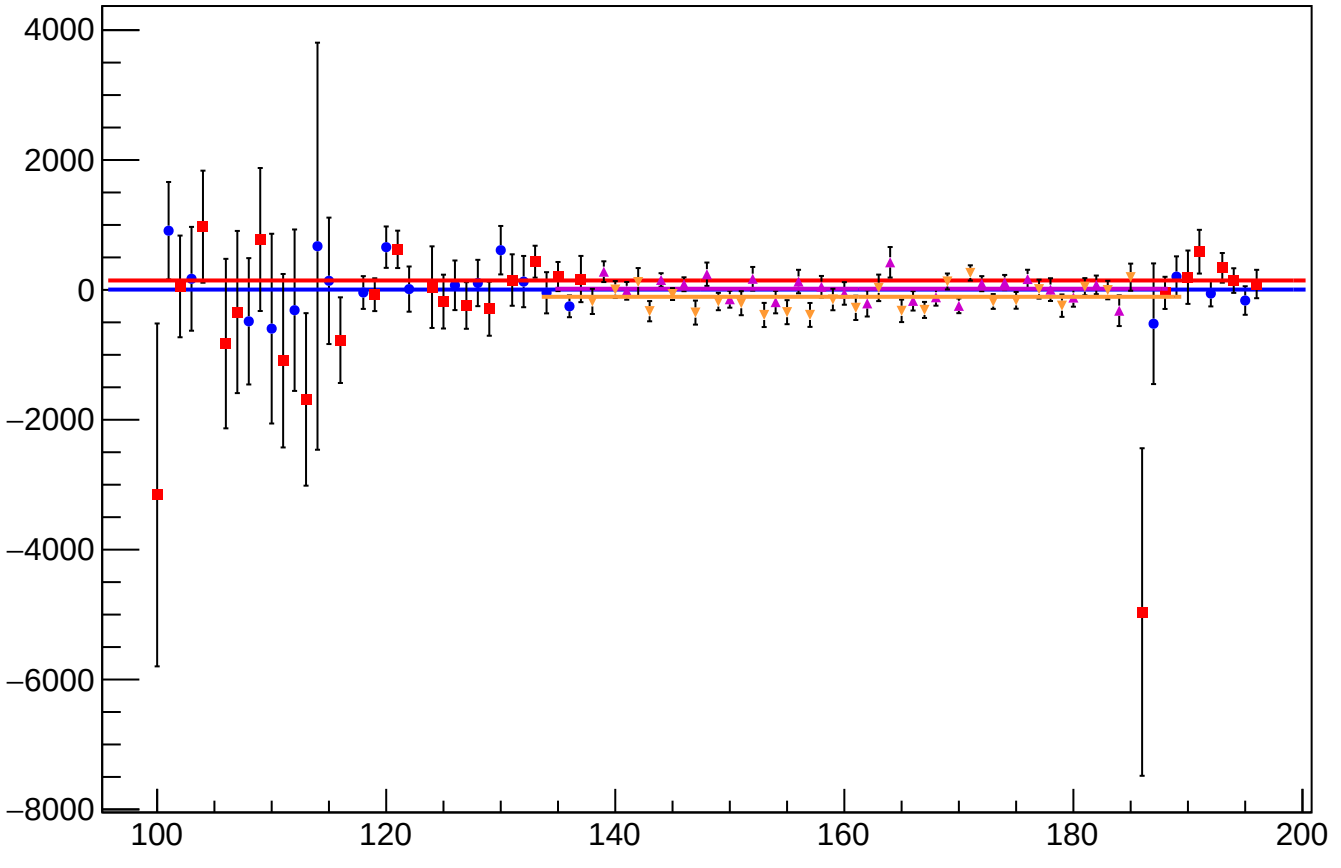
Left: 38.059+/-0.004 $\chi^2$/NDF: 942176.9/47

Right: 55.425+/-0.009 $\chi^2$/NDF: 3099658.3/45

In: 41.405+/-0.006 $\chi^2$/NDF:2969219.2/42

Out: 41.755+/-0.005 $\chi^2$/NDF:4211121.8/50

All: 41.586+/-0.004 $\chi^2$/NDF: 7182307.2/93




Right In: 4.767+/-76.270 $\chi^2$/NDF: 12.9/19

Left Out: -106.506+/-29.563 $\chi^2$/NDF:37.6/24

Right Out: 145.094+/-69.332 $\chi^2$/NDF: 23.3/25

Left In: 17.517+/-30.185 $\chi^2$/NDF:28.2/22

Left: -45.786+/-21.121 $\chi^2$/NDF: 74.5/47

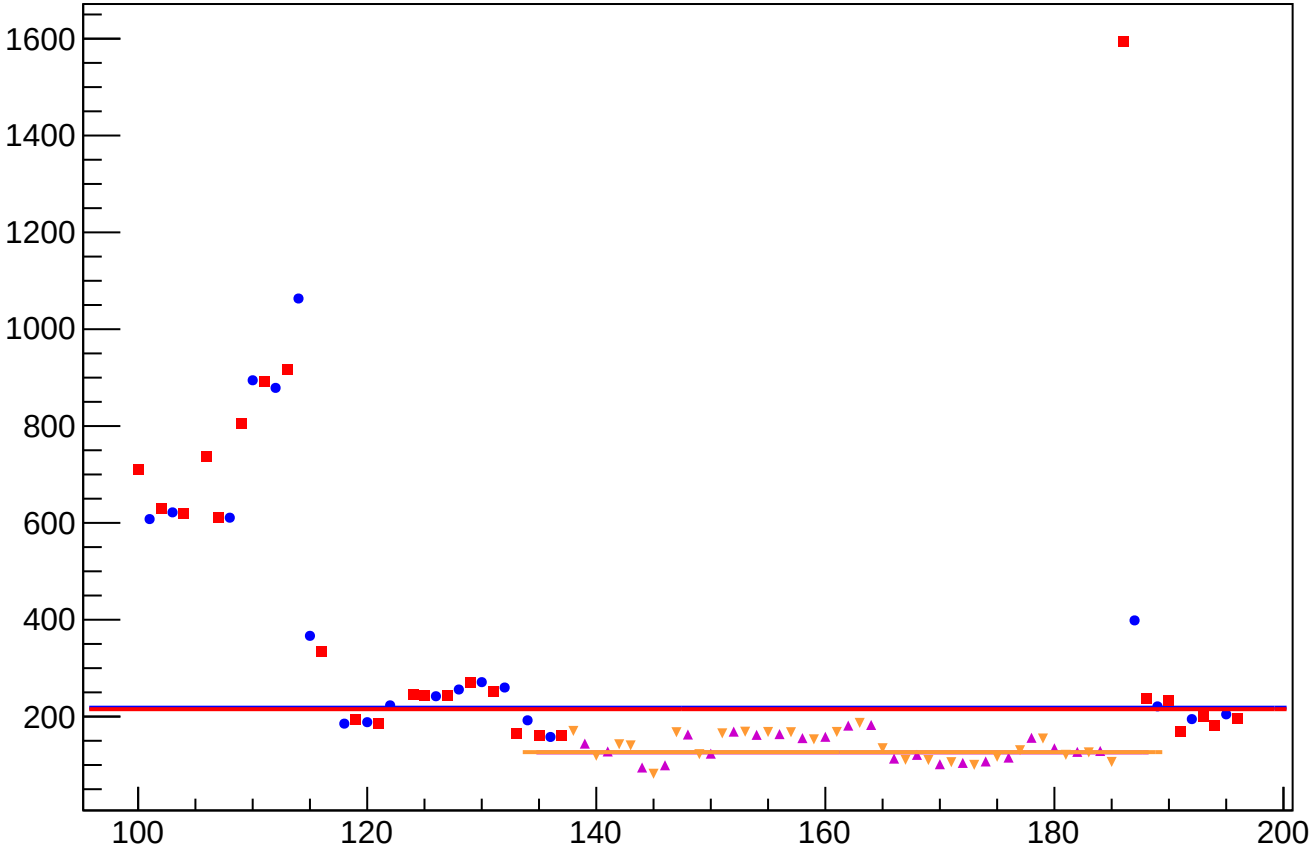
Right: 81.601+/-51.303 $\chi^2$/NDF: 38.1/45

In: 15.790+/-28.067 $\chi^2$/NDF:41.2/42

Out: -67.799+/-27.194 $\chi^2$/NDF:72.1/50

All: -27.324+/-19.531 $\chi^2$/NDF: 117.9/93

asym_sam_37_26_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 218.353+/-0.054 $\chi^2$/NDF: 3087104.6/19

Left Out: 126.561+/-0.021 $\chi^2$/NDF:1758158.3/24

Right Out: 215.250+/-0.049 $\chi^2$/NDF: 4411397.5/25

Left In: 126.013+/-0.021 $\chi^2$/NDF:1410655.7/22

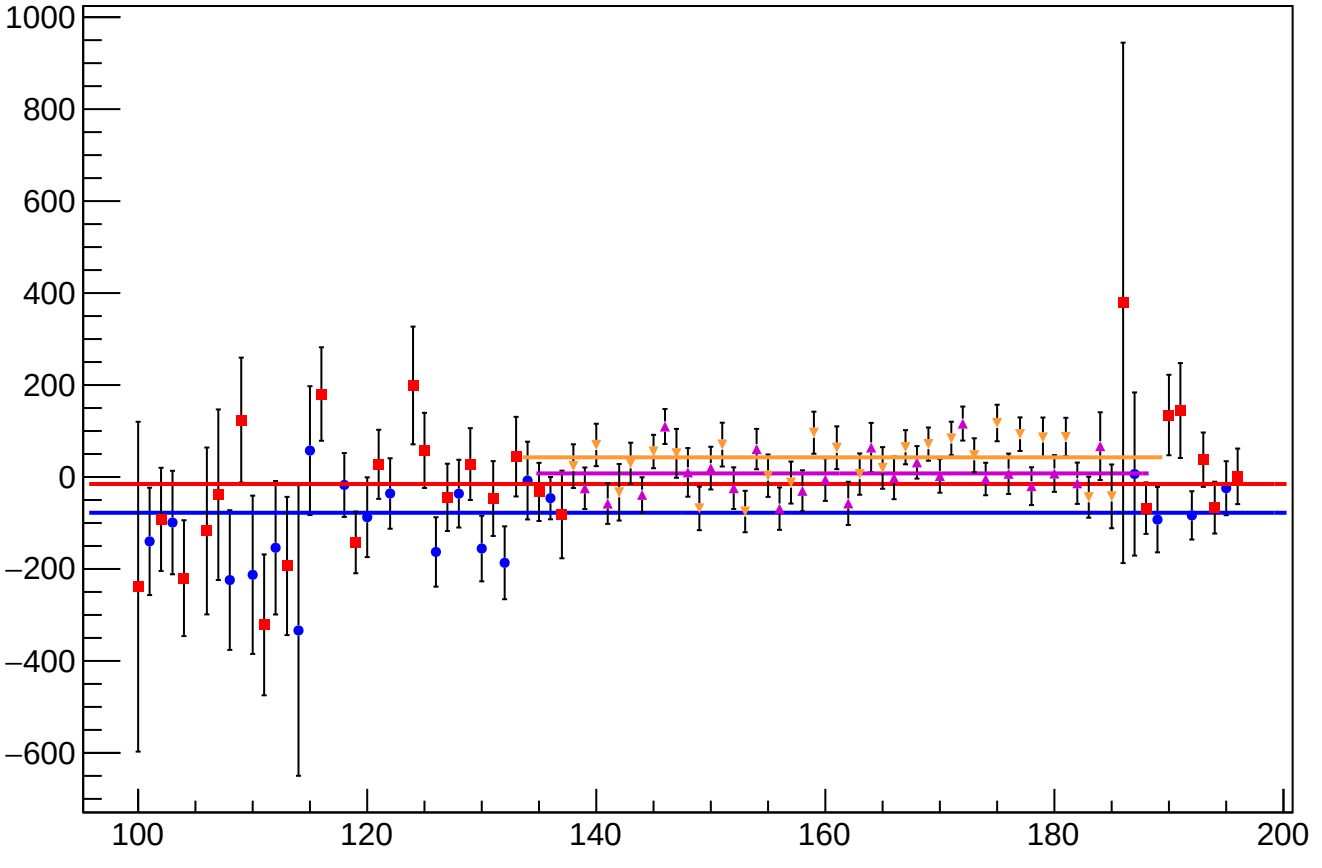
Left: 126.293+/-0.015 $\chi^2$/NDF: 3169149.7/47

Right: 216.654+/-0.036 $\chi^2$/NDF: 7500314.2/45

In: 138.518+/-0.020 $\chi^2$/NDF:7032298.3/42

Out: 140.205+/-0.019 $\chi^2$/NDF:8938731.1/50

All: 139.388+/-0.014 $\chi^2$/NDF: 15974756.8/93




Right In: -77.760+/-18.083 $\chi^2$/NDF: 11.7/19

Left Out: 42.767+/-8.698 $\chi^2$/NDF:34.7/24

Right Out: -15.183+/-16.964 $\chi^2$/NDF: 31.6/25

Left In: 7.785+/-8.974 $\chi^2$/NDF:30.6/22

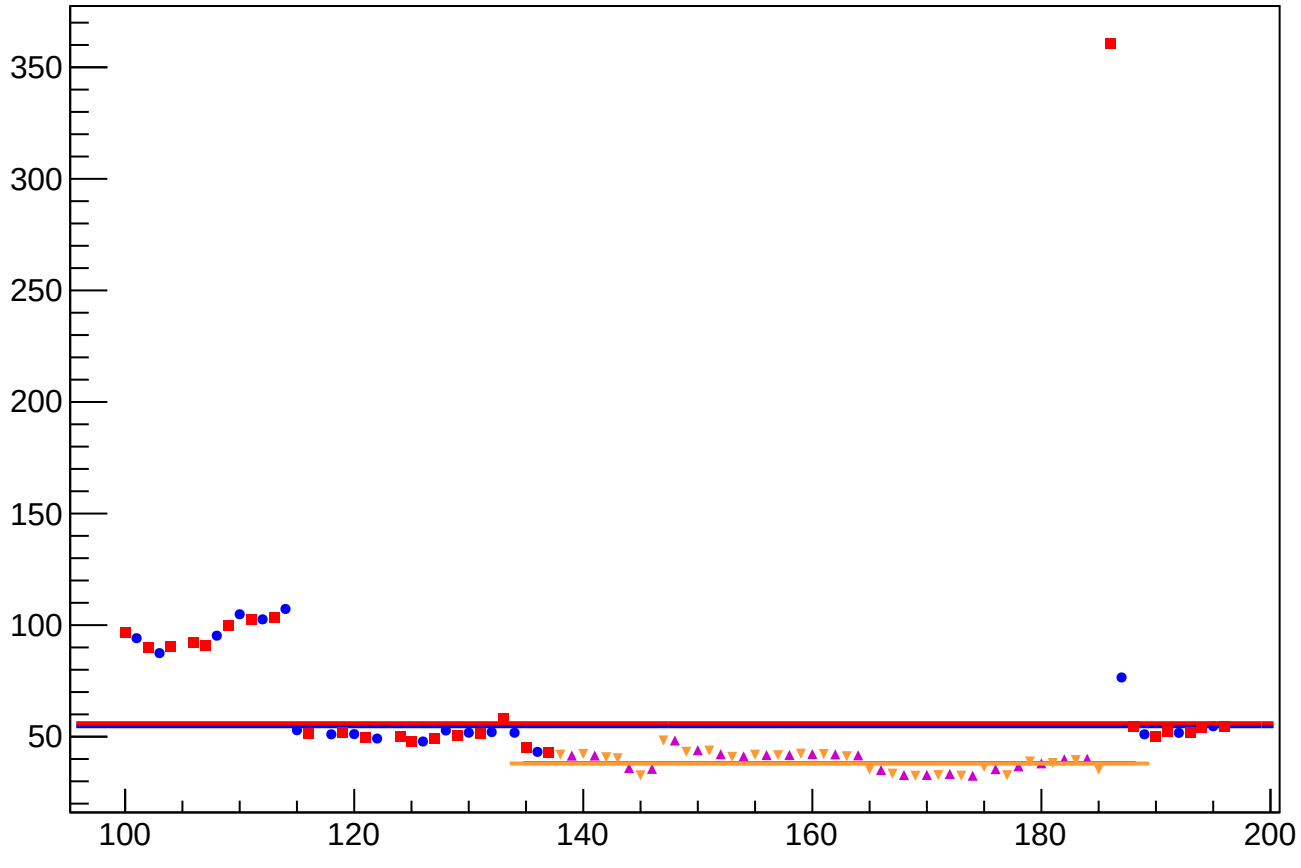
Left: 25.822+/-6.246 $\chi^2$/NDF: 73.2/47

Right: -44.476+/-12.372 $\chi^2$/NDF: 49.7/45

In: -9.122+/-8.039 $\chi^2$/NDF:60.3/42

Out: 30.703+/-7.740 $\chi^2$/NDF:75.6/50

All: 11.544+/-5.576 $\chi^2$/NDF: 148.6/93




Right In: 54.689+/-0.013 $\chi^2$/NDF: 1195646.9/19

Left Out: 37.990+/-0.006 $\chi^2$/NDF:513605.5/24

Right Out: 56.056+/-0.012 $\chi^2$/NDF: 1890030.7/25

Left In: 38.133+/-0.006 $\chi^2$/NDF:428309.7/22

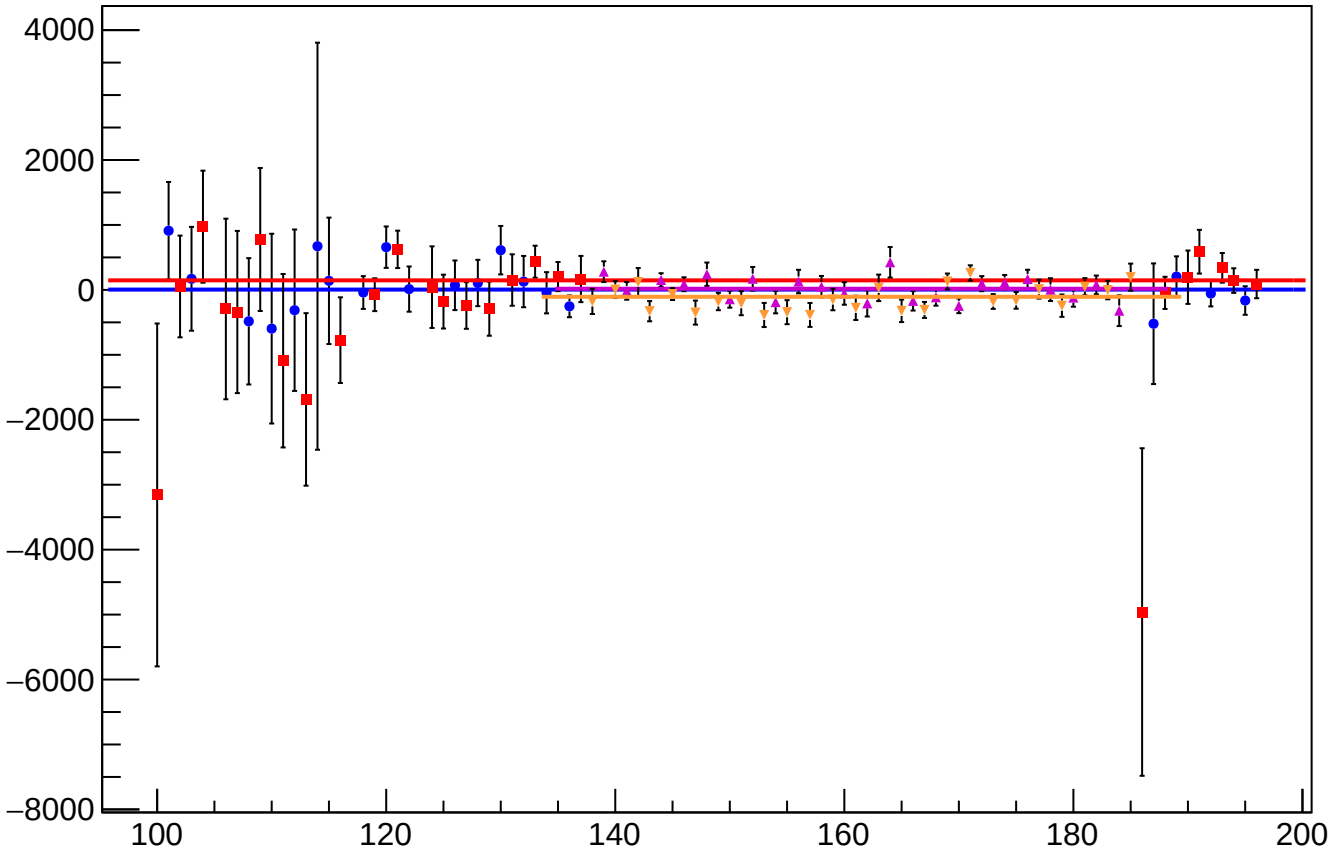
Left: 38.059+/-0.004 $\chi^2$/NDF: 942176.9/47

Right: 55.416+/-0.009 $\chi^2$/NDF: 3091755.2/45

In: 41.405+/-0.006 $\chi^2$/NDF:2969219.3/42

Out: 41.751+/-0.005 $\chi^2$/NDF:4199784.5/50

All: 41.584+/-0.004 $\chi^2$/NDF: 7170926.2/93




Right In: 4.768+/-76.270 $\chi^2$/NDF: 12.9/19

Left Out: -106.505+/-29.563 $\chi^2$/NDF:37.6/24

Right Out: 146.725+/-69.344 $\chi^2$/NDF: 22.9/25

Left In: 17.517+/-30.185 $\chi^2$/NDF:28.2/22

Left: -45.785+/-21.121 $\chi^2$/NDF: 74.5/47

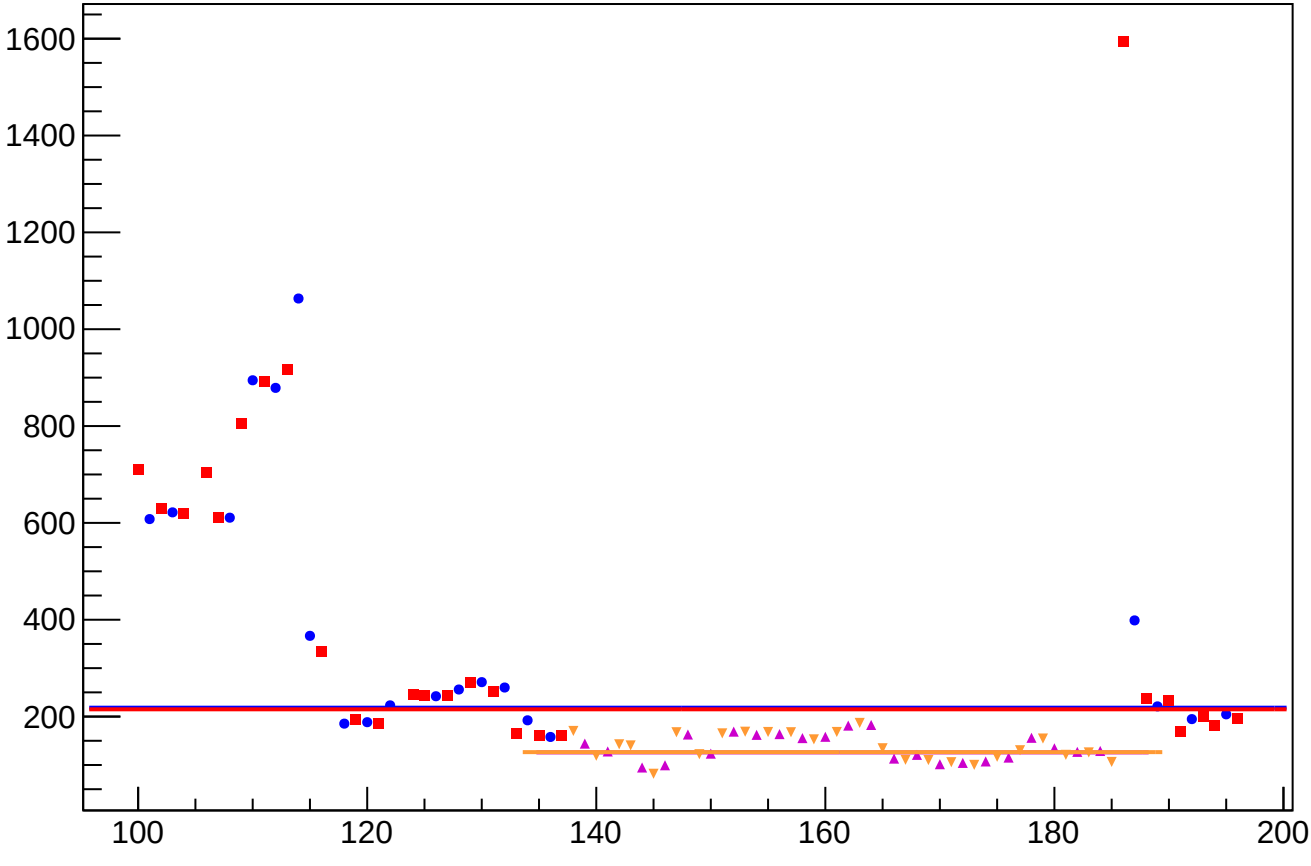
Right: 82.483+/-51.308 $\chi^2$/NDF: 37.7/45

In: 15.791+/-28.067 $\chi^2$/NDF:41.2/42

Out: -67.559+/-27.195 $\chi^2$/NDF:71.8/50

All: -27.199+/-19.531 $\chi^2$/NDF: 117.5/93

asym_sam_37_26_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 218.353+/-0.054 $\chi^2$/NDF: 3087109.8/19

Left Out: 126.561+/-0.021 $\chi^2$/NDF:1758151.9/24

Right Out: 214.995+/-0.049 $\chi^2$/NDF: 4340165.2/25

Left In: 126.013+/-0.021 $\chi^2$/NDF:1410664.0/22

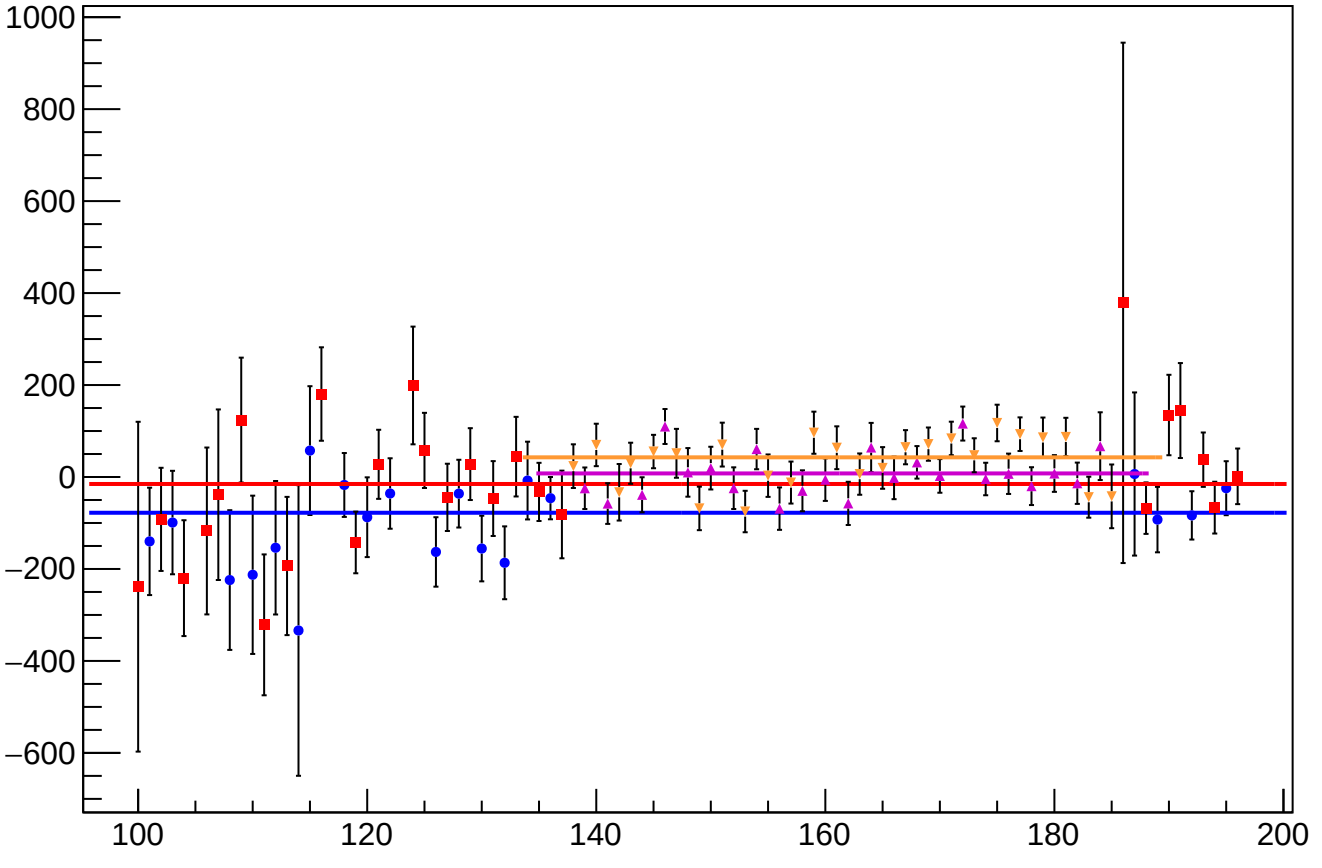
Left: 126.293+/-0.015 $\chi^2$/NDF: 3169151.8/47

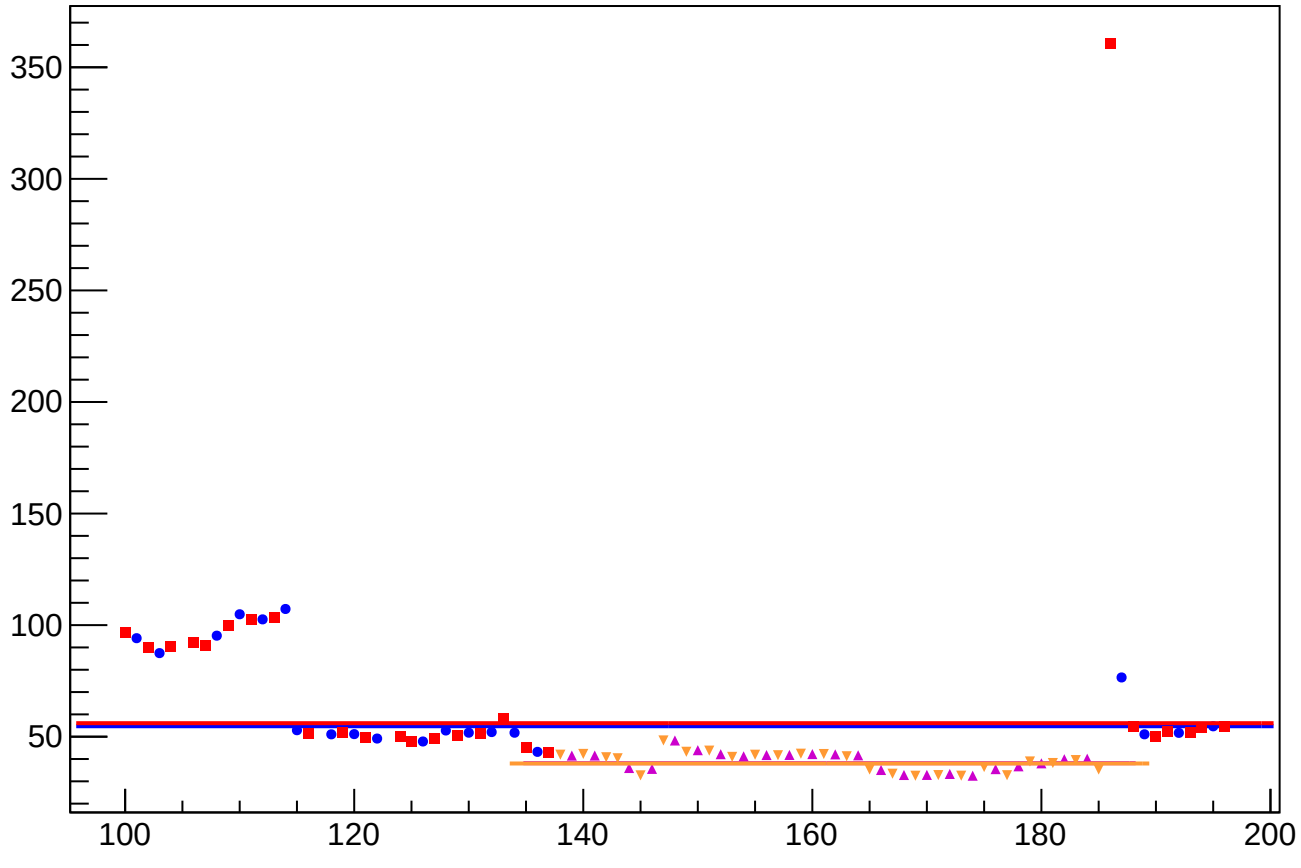
Right: 216.515+/-0.036 $\chi^2$/NDF: 7429397.2/45

In: 138.518+/-0.020 $\chi^2$/NDF:7032318.9/42

Out: 140.162+/-0.019 $\chi^2$/NDF:8850773.9/50

All: 139.366+/-0.014 $\chi^2$/NDF: 15886632.1/93


eigen_cor_asym_sam_37_26_dd_mean vs Slug, Sign Corrected
1000
800
600
400
200
0
−200
−400
−600
100
120
140
160
180
200
Right In: -77.760+/-18.083 χ²/NDF: 11.7/19
Left Out: 42.767+/-8.698 χ²/NDF:34.7/24
Right Out: -15.183+/-16.964 χ²/NDF: 31.6/25
Left In: 7.785+/-8.974 χ²/NDF:30.6/22
Left: 25.822+/-6.246 χ²/NDF: 73.2/47
Right: -44.476+/-12.372 χ²/NDF: 49.7/45
In: -9.122+/-8.039 χ²/NDF:60.3/42
Out: 30.703+/-7.740 χ²/NDF:75.6/50
All: 11.544+/-5.576 χ²/NDF: 148.6/93




Right In: 54.689+/-0.013 $\chi^2$/NDF: 1195646.9/19

Left Out: 37.990+/-0.006 $\chi^2$/NDF:513605.5/24

Right Out: 56.056+/-0.012 $\chi^2$/NDF: 1890030.7/25

Left In: 38.133+/-0.006 $\chi^2$/NDF:428309.7/22

Left: 38.059+/-0.004 $\chi^2$/NDF: 942176.9/47

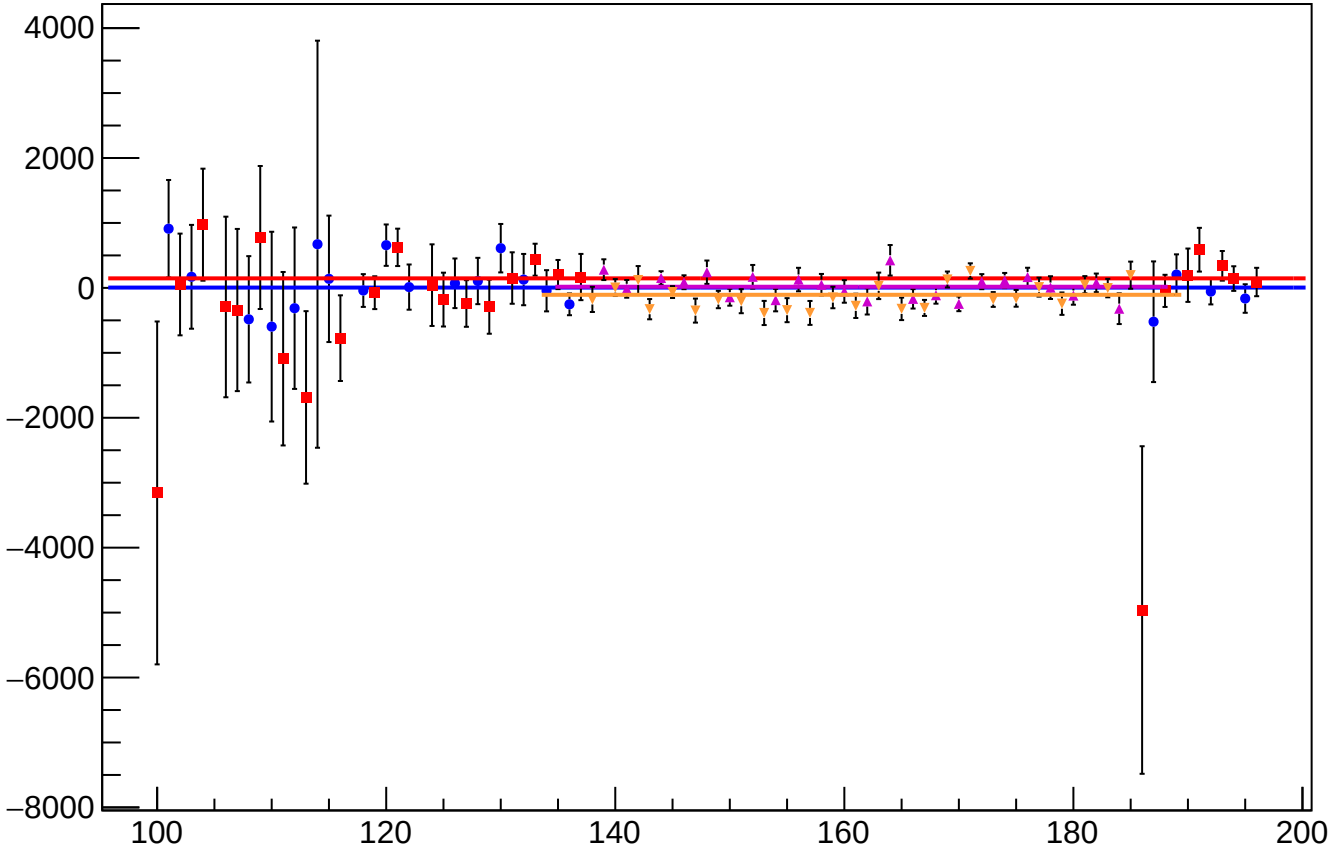
Right: 55.416+/-0.009 $\chi^2$/NDF: 3091755.2/45

In: 41.405+/-0.006 $\chi^2$/NDF:2969219.3/42

Out: 41.751+/-0.005 $\chi^2$/NDF:4199784.5/50

All: 41.584+/-0.004 $\chi^2$/NDF: 7170926.2/93

asym_sam_37_26_dd_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: 4.768+/-76.270 $\chi^2$/NDF: 12.9/19

Left Out: -106.505+/-29.563 $\chi^2$/NDF:37.6/24

Right Out: 146.725+/-69.344 $\chi^2$/NDF: 22.9/25

Left In: 17.517+/-30.185 $\chi^2$/NDF:28.2/22

Left: -45.785+/-21.121 $\chi^2$/NDF: 74.5/47

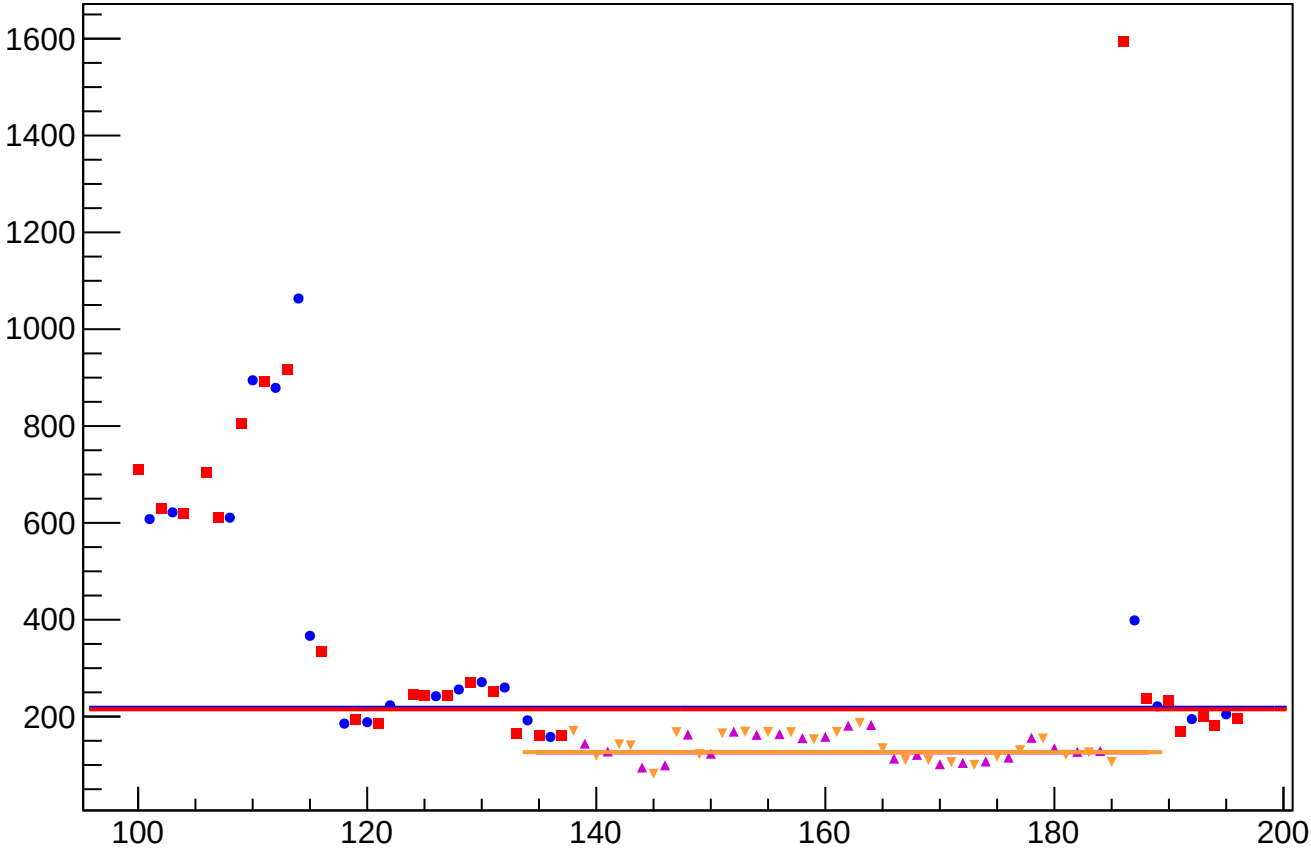
Right: 82.483+/-51.308 $\chi^2$/NDF: 37.7/45

In: 15.791+/-28.067 $\chi^2$/NDF:41.2/42

Out: -67.559+/-27.195 $\chi^2$/NDF:71.8/50

All: -27.199+/-19.531 $\chi^2$/NDF: 117.5/93

asym_sam_37_26_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 218.353+/-0.054 $\chi^2$/NDF: 3087109.8/19

Left Out: 126.561+/-0.021 $\chi^2$/NDF:1758151.9/24

Right Out: 214.995+/-0.049 $\chi^2$/NDF: 4340165.2/25

Left In: 126.013+/-0.021 $\chi^2$/NDF:1410664.0/22

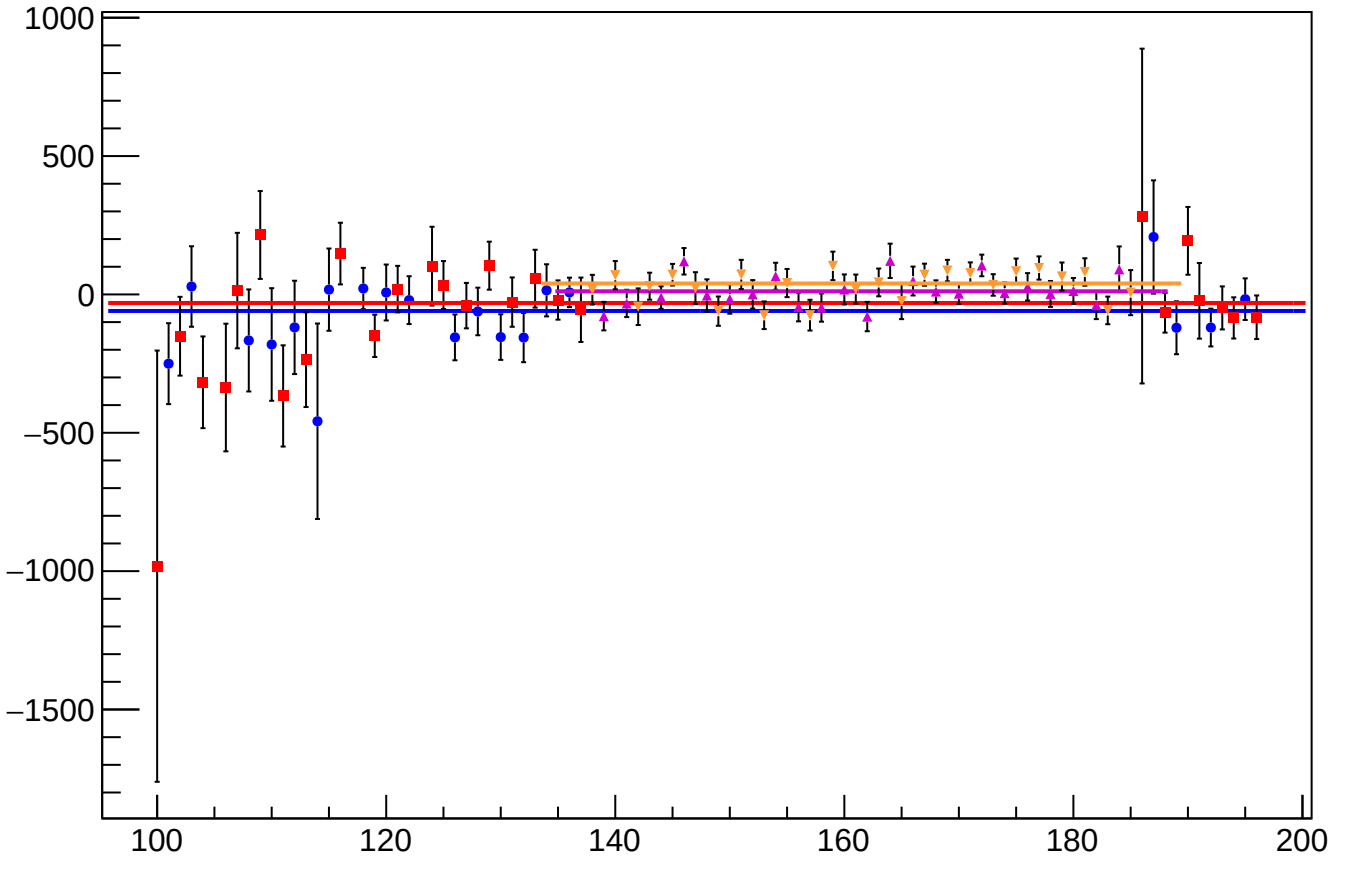
Left: 126.293+/-0.015 $\chi^2$/NDF: 3169151.8/47

Right: 216.515+/-0.036 $\chi^2$/NDF: 7429397.2/45

In: 138.518+/-0.020 $\chi^2$/NDF:7032318.9/42

Out: 140.162+/-0.019 $\chi^2$/NDF:8850773.9/50

All: 139.366+/-0.014 $\chi^2$/NDF: 15886632.1/93




Right In: -59.758+/-21.360 $\chi^2$/NDF: 15.5/19

Left Out: 39.563+/-9.745 $\chi^2$/NDF:29.6/24

Right Out: -30.882+/-20.396 $\chi^2$/NDF: 29.1/25

Left In: 11.306+/-10.077 $\chi^2$/NDF:27.9/22

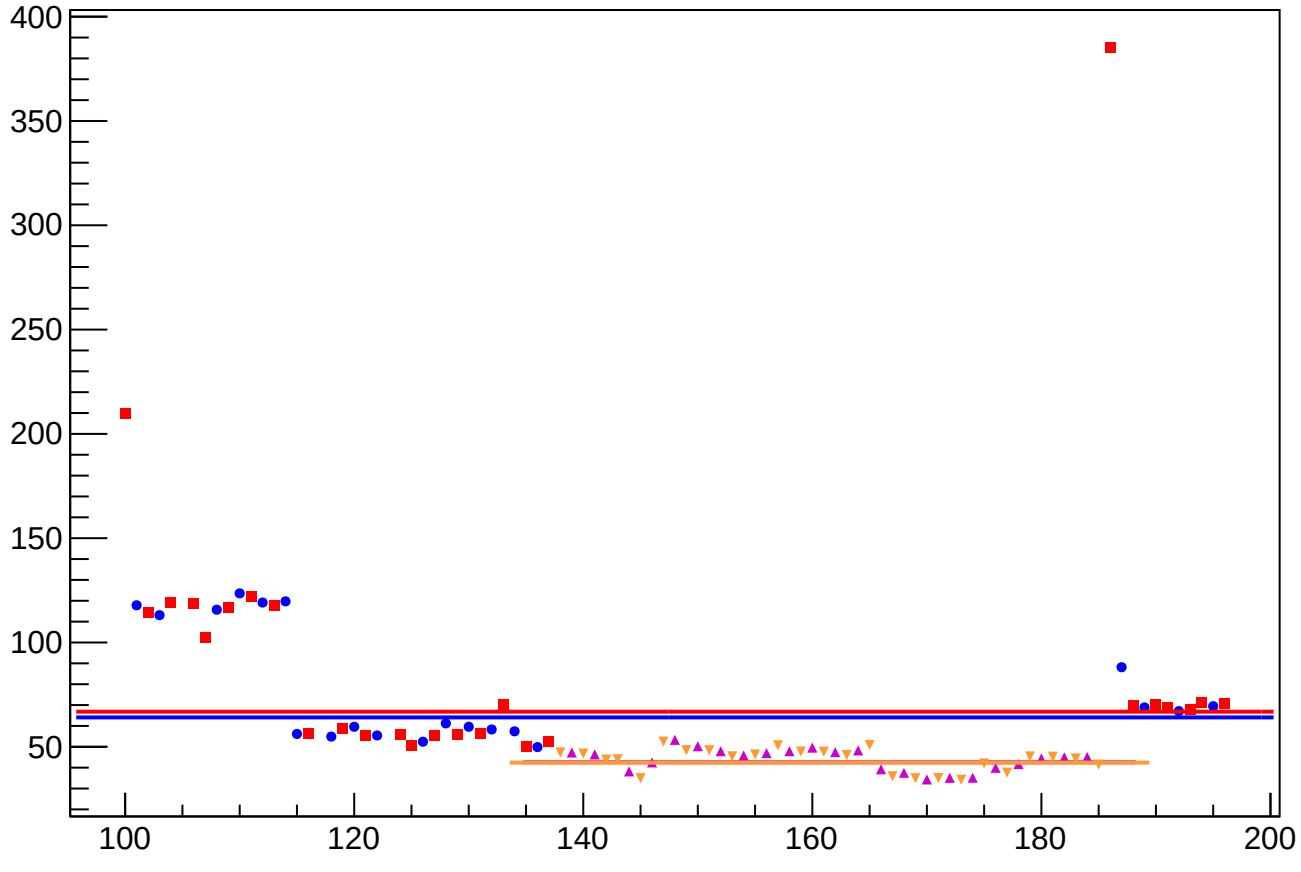
Left: 25.908+/-7.005 $\chi^2$/NDF: 61.6/47

Right: -44.654+/-14.751 $\chi^2$/NDF: 45.5/45

In: -1.631+/-9.114 $\chi^2$/NDF:52.4/42

Out: 26.470+/-8.793 $\chi^2$/NDF:68.4/50

All: 12.922+/-6.328 $\chi^2$/NDF: 125.7/93




Right In: 64.088+/-0.015 $\chi^2$/NDF: 1403590.7/19

Left Out: 42.426+/-0.007 $\chi^2$/NDF:698766.0/24

Right Out: 66.835+/-0.014 $\chi^2$/NDF: 2176964.3/25

Left In: 42.579+/-0.007 $\chi^2$/NDF:589897.0/22

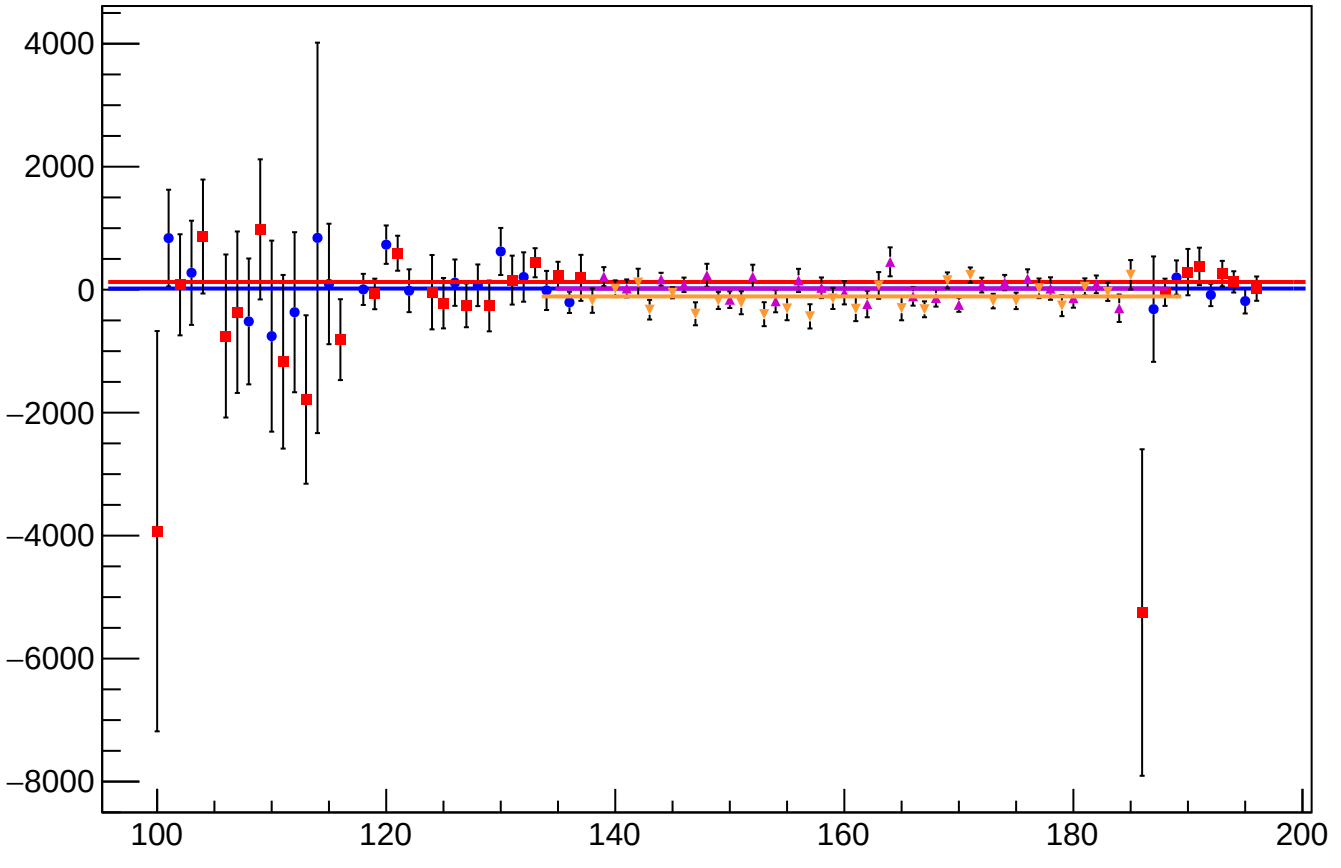
Left: 42.500+/-0.005 $\chi^2$/NDF: 1288900.7/47

Right: 65.525+/-0.010 $\chi^2$/NDF: 3597869.7/45

In: 46.495+/-0.006 $\chi^2$/NDF:3652210.8/42

Out: 46.963+/-0.006 $\chi^2$/NDF:5207914.8/50

All: 46.737+/-0.004 $\chi^2$/NDF: 8862862.5/93




Right In: 18.258+/-74.376 $\chi^2$/NDF: 13.5/19

Left Out: -109.869+/-30.759 $\chi^2$/NDF:36.3/24

Right Out: 125.171+/-65.593 $\chi^2$/NDF: 22.6/25

Left In: 18.838+/-31.477 $\chi^2$/NDF:27.2/22

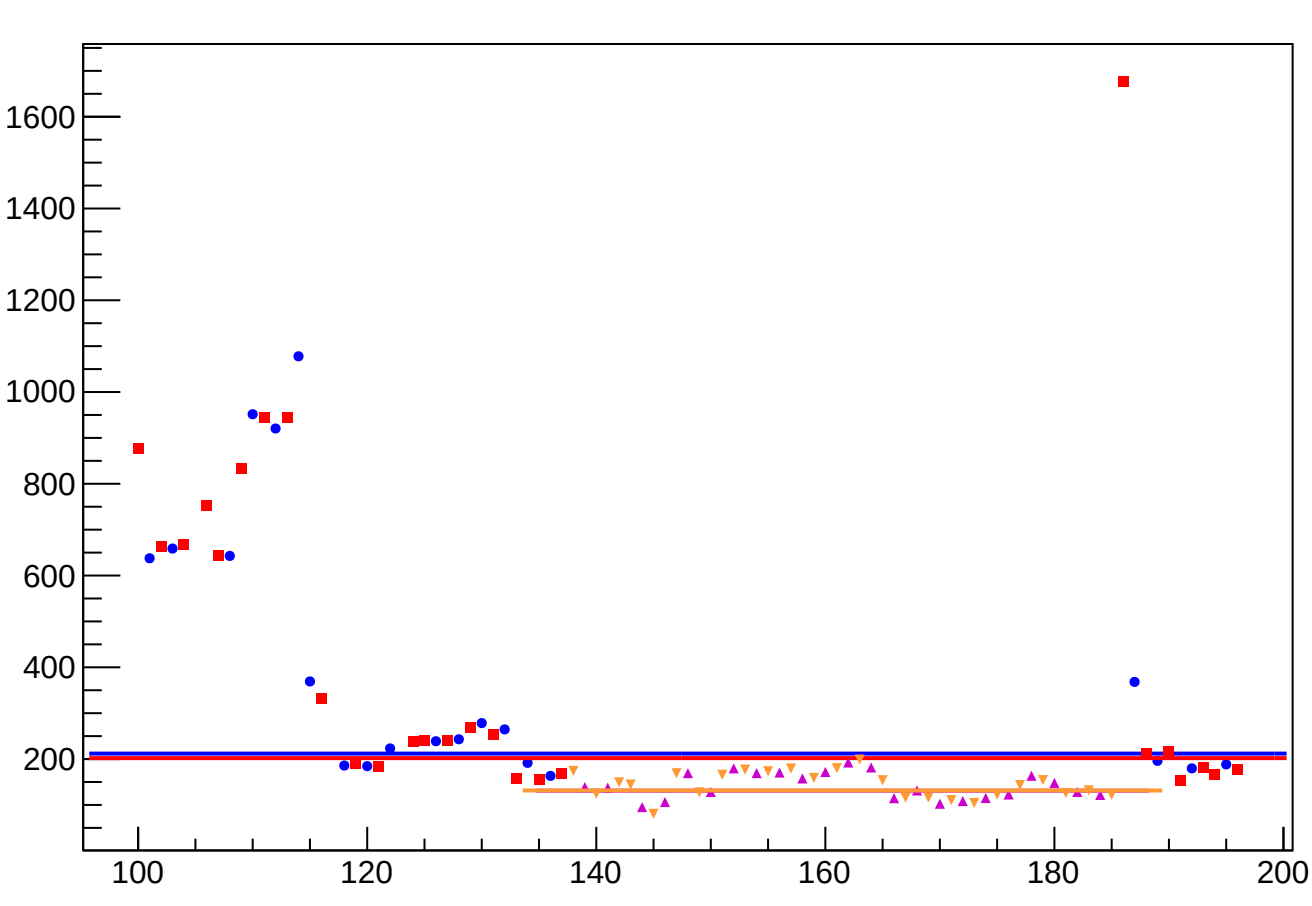
Left: -47.000+/-21.999 $\chi^2$/NDF: 72.0/47

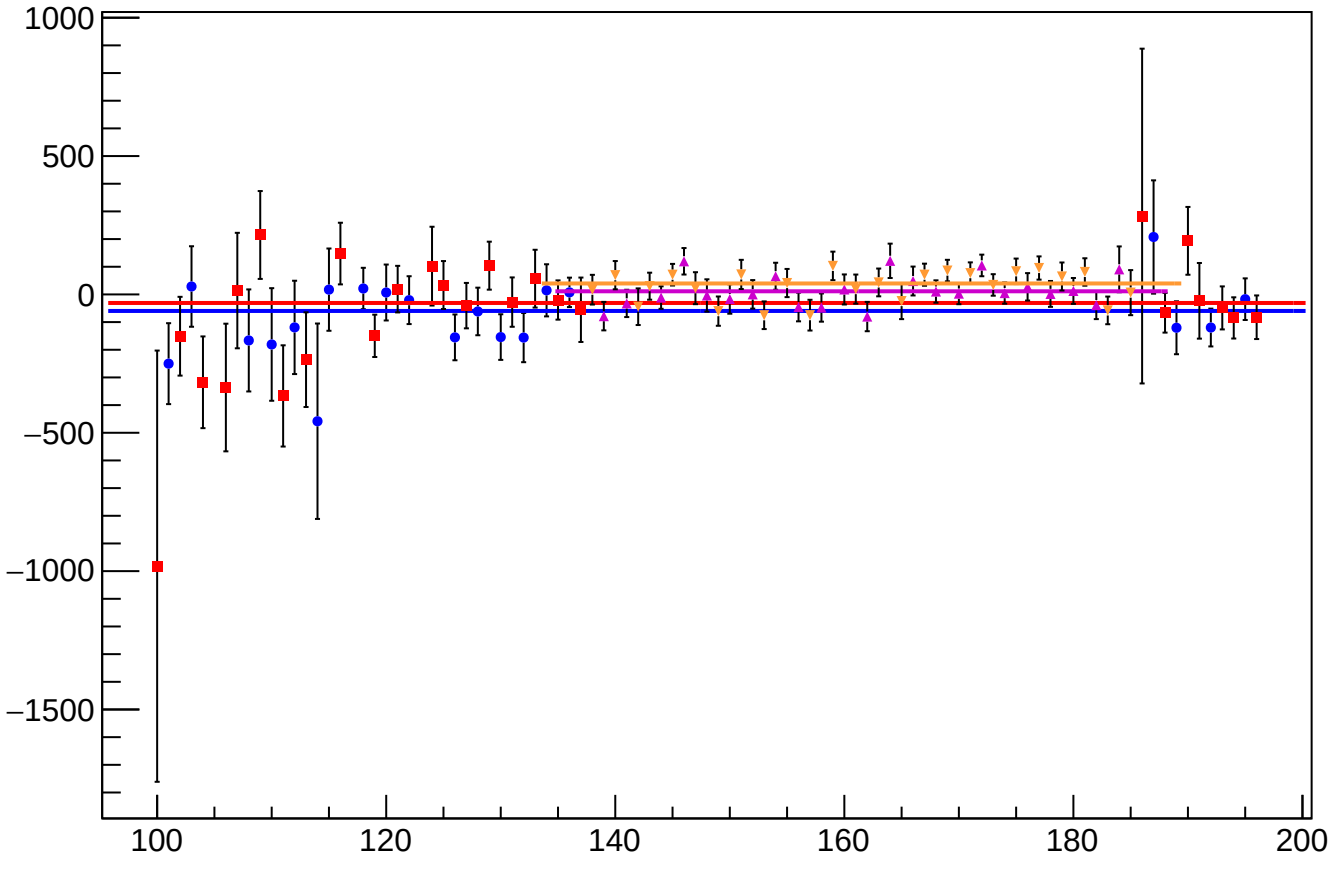
Right: 78.397+/-49.195 $\chi^2$/NDF: 37.2/45

In: 18.750+/-28.988 $\chi^2$/NDF:40.7/42

Out: -67.501+/-27.849 $\chi^2$/NDF:69.4/50

All: -26.103+/-20.083 $\chi^2$/NDF: 114.7/93


asym_sam_37_26_dd_dit_correction_rms vs Slug, Sign Corrected
1600
1400
1200
1000
800
600
400
200
100
120
140
160
180
200
Right In: 211.909+/-0.053 χ²/NDF: 3230419.0/19
Left Out: 131.515+/-0.022 χ²/NDF:1902958.8/24
Right Out: 202.021+/-0.046 χ²/NDF: 4754084.1/25
Left In: 131.074+/-0.022 χ²/NDF:1467806.6/22
Left: 131.300+/-0.016 χ²/NDF: 3370966.4/47
Right: 206.347+/-0.035 χ²/NDF: 8004384.7/45
In: 143.353+/-0.020 χ²/NDF:6701828.5/42
Out: 144.225+/-0.020 χ²/NDF:8551350.6/50
All: 143.806+/-0.014 χ²/NDF: 15254119.9/93




Right In: -59.759+/-21.360 $\chi^2$/NDF: 15.5/19

Left Out: 39.564+/-9.745 $\chi^2$/NDF:29.6/24

Right Out: -30.883+/-20.396 $\chi^2$/NDF: 29.1/25

Left In: 11.306+/-10.077 $\chi^2$/NDF:27.9/22

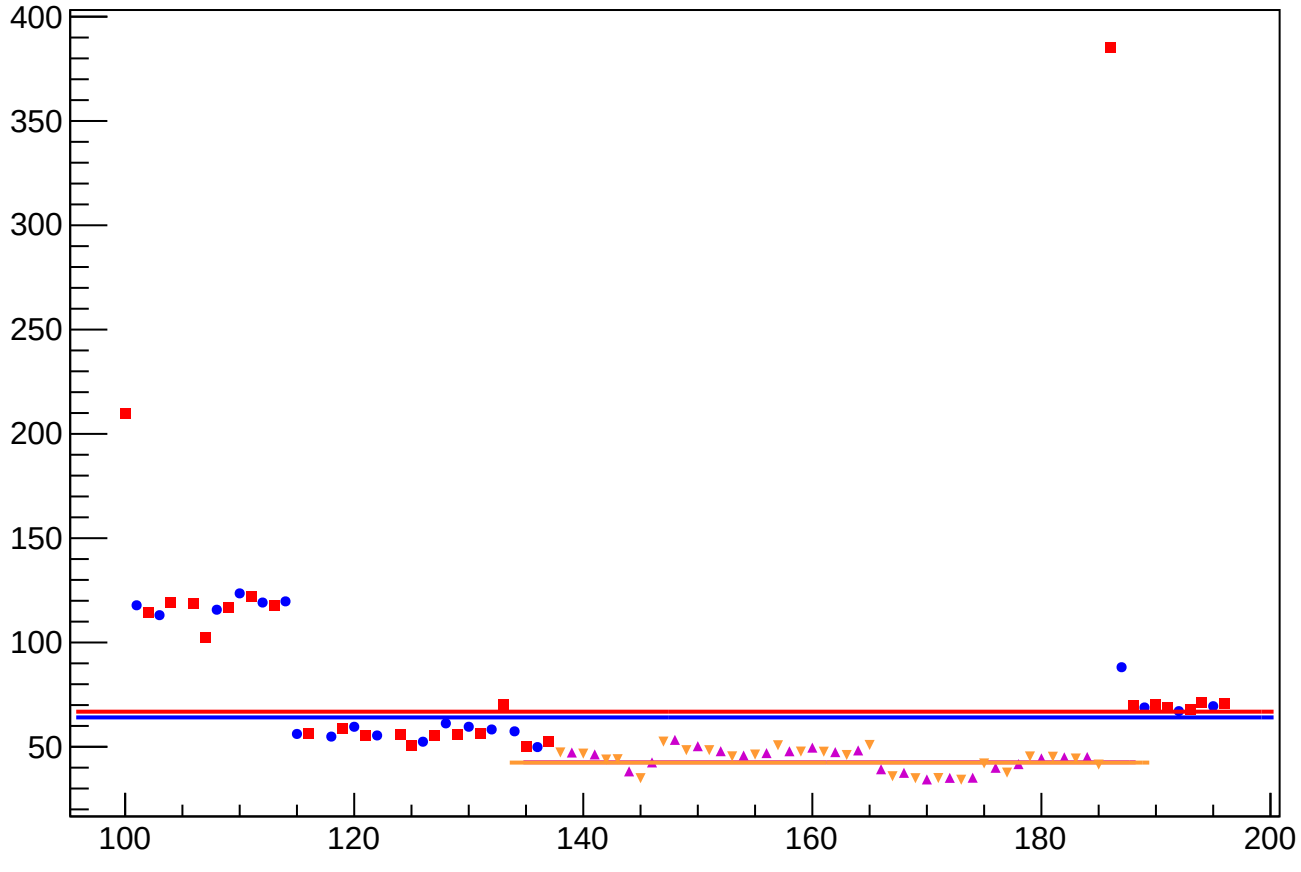
Left: 25.908+/-7.005 $\chi^2$/NDF: 61.6/47

Right: -44.654+/-14.751 $\chi^2$/NDF: 45.5/45

In: -1.631+/-9.114 $\chi^2$/NDF:52.4/42

Out: 26.470+/-8.793 $\chi^2$/NDF:68.4/50

All: 12.923+/-6.328 $\chi^2$/NDF: 125.7/93




Right In: 64.087+/-0.015 $\chi^2$/NDF: 1403585.4/19

Left Out: 42.426+/-0.007 $\chi^2$/NDF:698784.4/24

Right Out: 66.836+/-0.014 $\chi^2$/NDF: 2176958.2/25

Left In: 42.579+/-0.007 $\chi^2$/NDF:589901.9/22

Left: 42.500+/-0.005 $\chi^2$/NDF: 1288924.2/47

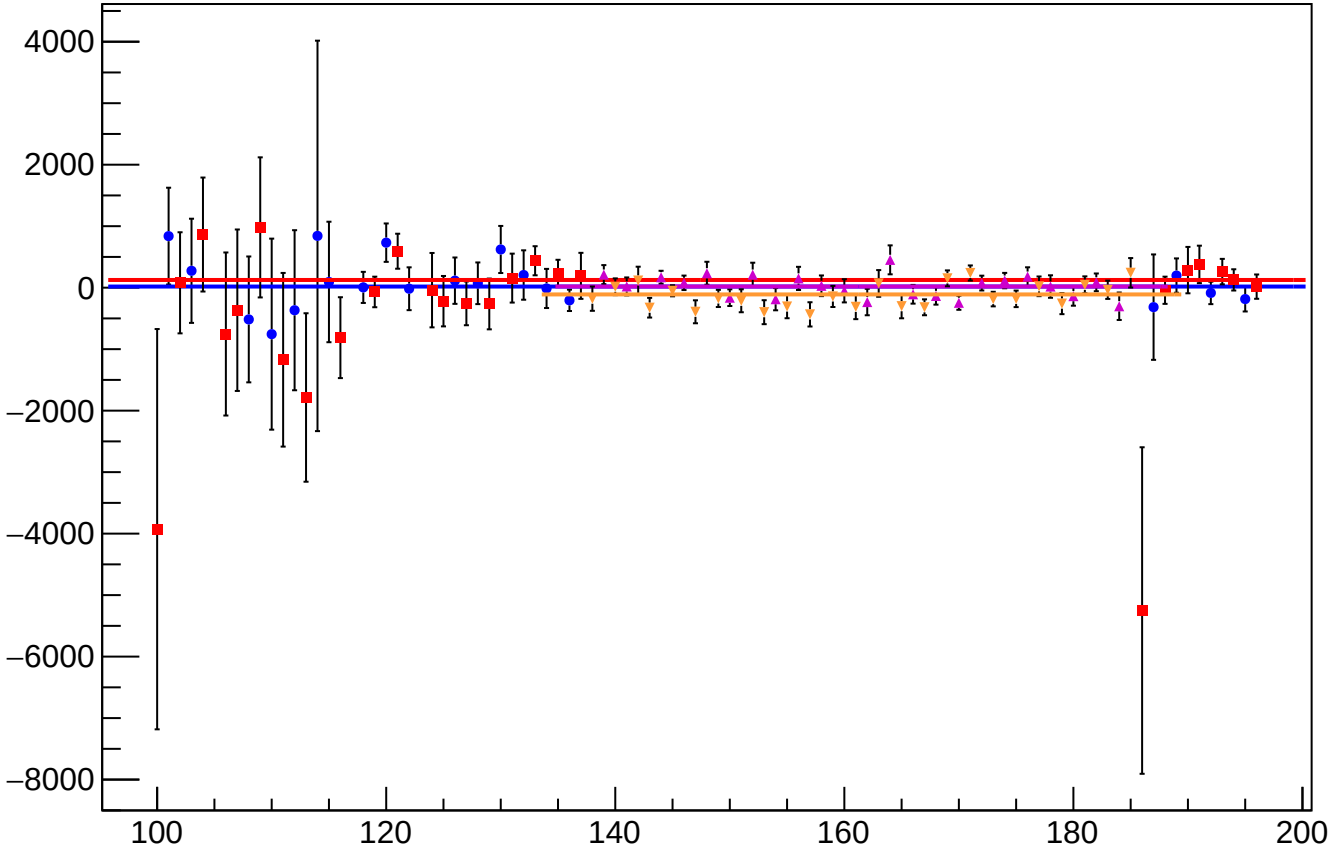
Right: 65.525+/-0.010 $\chi^2$/NDF: 3597861.6/45

In: 46.495+/-0.006 $\chi^2$/NDF:3652170.4/42

Out: 46.963+/-0.006 $\chi^2$/NDF:5207931.5/50

All: 46.737+/-0.004 $\chi^2$/NDF: 8862838.3/93

asym_sam_37_26_dd_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: 18.259+/-74.375 $\chi^2$/NDF: 13.5/19

Left Out: -109.869+/-30.759 $\chi^2$/NDF:36.3/24

Right Out: 125.169+/-65.592 $\chi^2$/NDF: 22.6/25

Left In: 18.838+/-31.477 $\chi^2$/NDF:27.2/22

Left: -47.000+/-21.999 $\chi^2$/NDF: 72.0/47

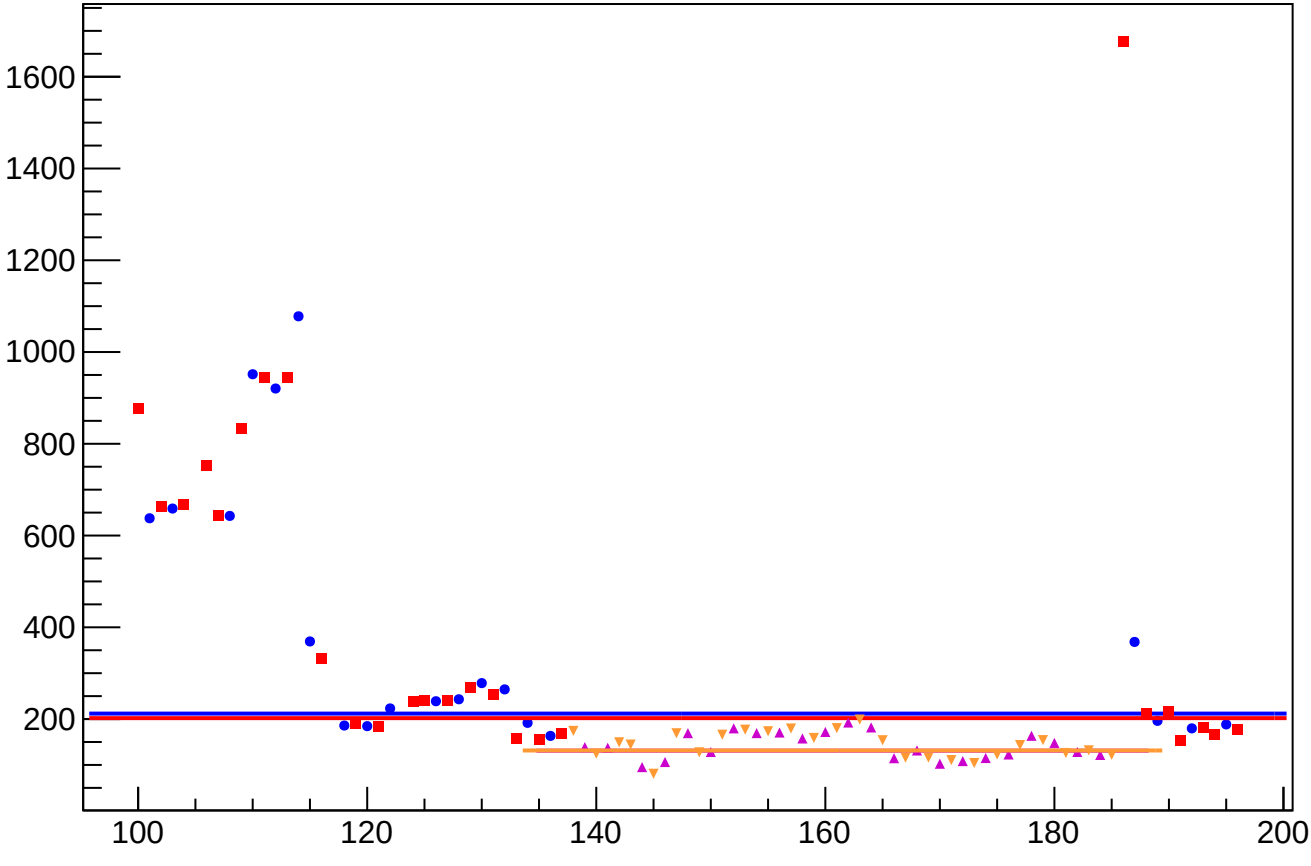
Right: 78.396+/-49.194 $\chi^2$/NDF: 37.2/45

In: 18.750+/-28.988 $\chi^2$/NDF:40.7/42

Out: -67.500+/-27.849 $\chi^2$/NDF:69.4/50

All: -26.103+/-20.083 $\chi^2$/NDF: 114.7/93

asym_sam_37_26_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 211.908+/-0.053 $\chi^2$/NDF: 3230412.0/19

Left Out: 131.515+/-0.022 $\chi^2$/NDF:1902951.8/24

Right Out: 202.021+/-0.046 $\chi^2$/NDF: 4754084.0/25

Left In: 131.074+/-0.022 $\chi^2$/NDF:1467810.7/22

Left: 131.300+/-0.016 $\chi^2$/NDF: 3370963.6/47

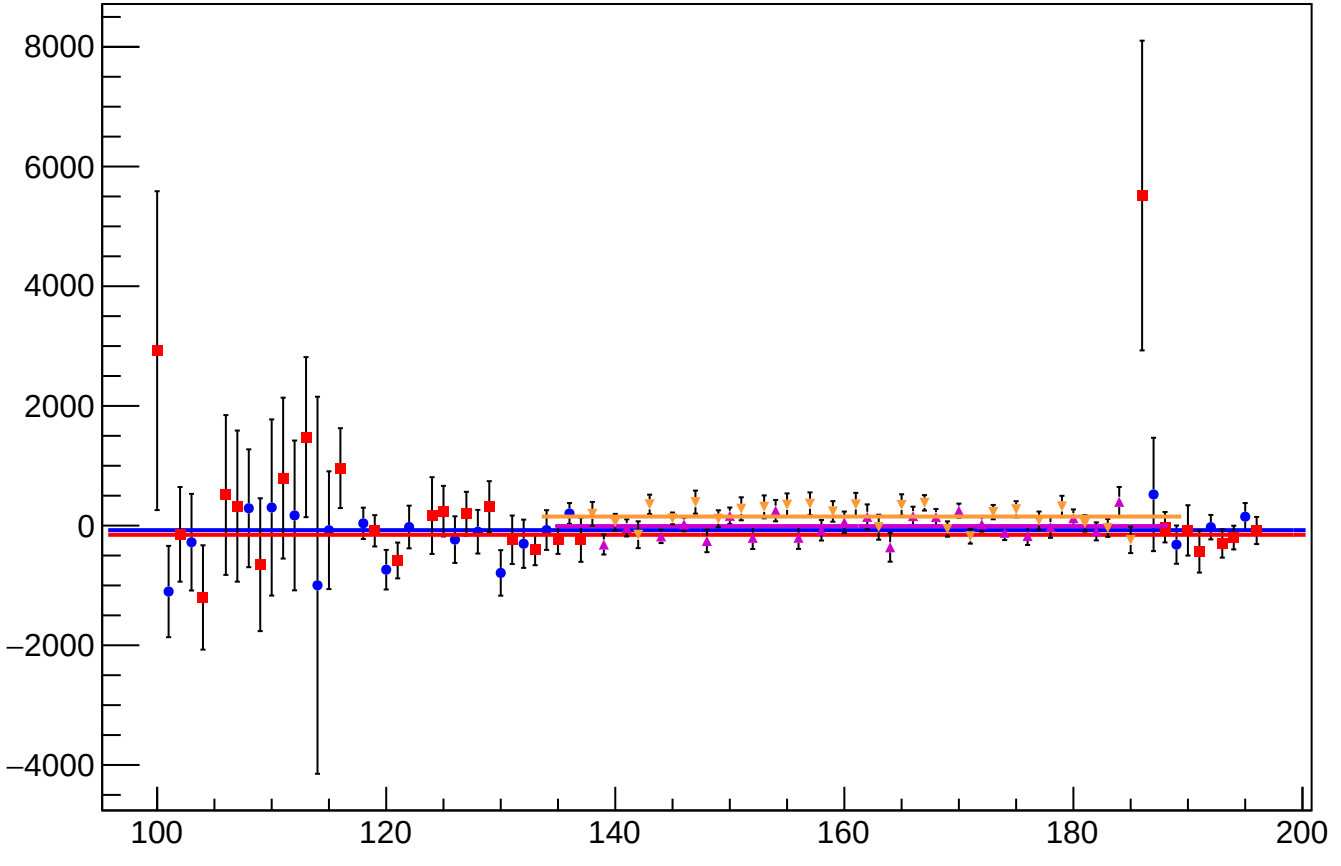
Right: 206.346+/-0.035 $\chi^2$/NDF: 8004377.6/45

In: 143.353+/-0.020 $\chi^2$/NDF:6701799.8/42

Out: 144.225+/-0.020 $\chi^2$/NDF:8551311.7/50

All: 143.806+/-0.014 $\chi^2$/NDF: 15254052.4/93

# asym_sam_37_26_dd_mean vs Slug, Sign Corrected




Right In: -76.174+/-78.755 $\chi^2$/NDF: 15.0/19

Left Out: 151.108+/-30.952 $\chi^2$/NDF:33.1/24

Right Out: -153.862+/-71.827 $\chi^2$/NDF: 20.9/25

Left In: -7.941+/-31.621 $\chi^2$/NDF:29.5/22

Left: 73.285+/-22.119 $\chi^2$/NDF: 75.5/47

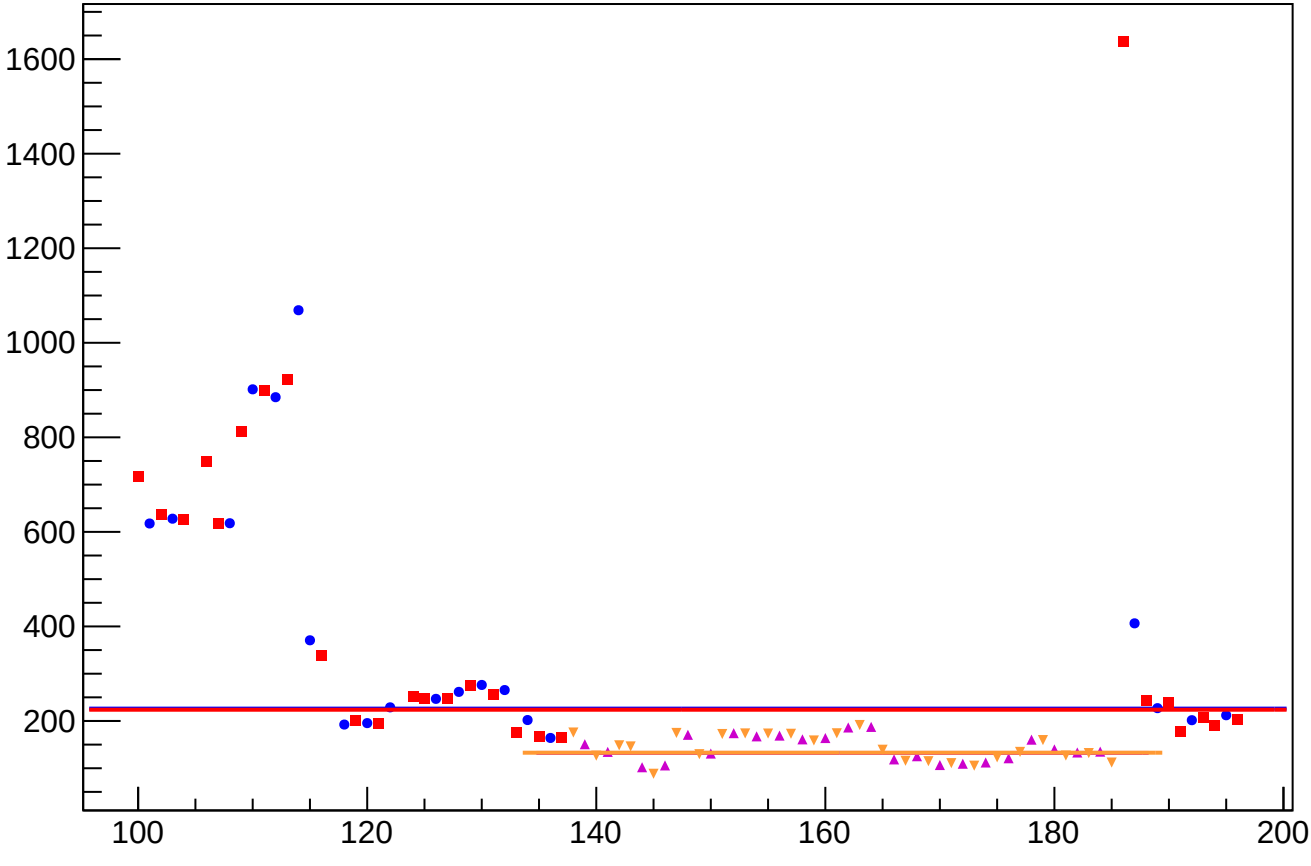
Right: -118.585+/-53.070 $\chi^2$/NDF: 36.4/45

In: -17.414+/-29.344 $\chi^2$/NDF:45.1/42

Out: 103.346+/-28.425 $\chi^2$/NDF:69.2/50

All: 44.888+/-20.417 $\chi^2$/NDF: 123.0/93

# asym_sam_37_26_dd_rms vs Slug, Sign Corrected




Right In: 226.127+/-0.056 $\chi^2$/NDF: 3001854.0/19

Left Out: 132.876+/-0.022 $\chi^2$/NDF:1592310.5/24

Right Out: 223.806+/-0.051 $\chi^2$/NDF: 4283222.2/25

Left In: 132.342+/-0.022 $\chi^2$/NDF:1277761.6/22

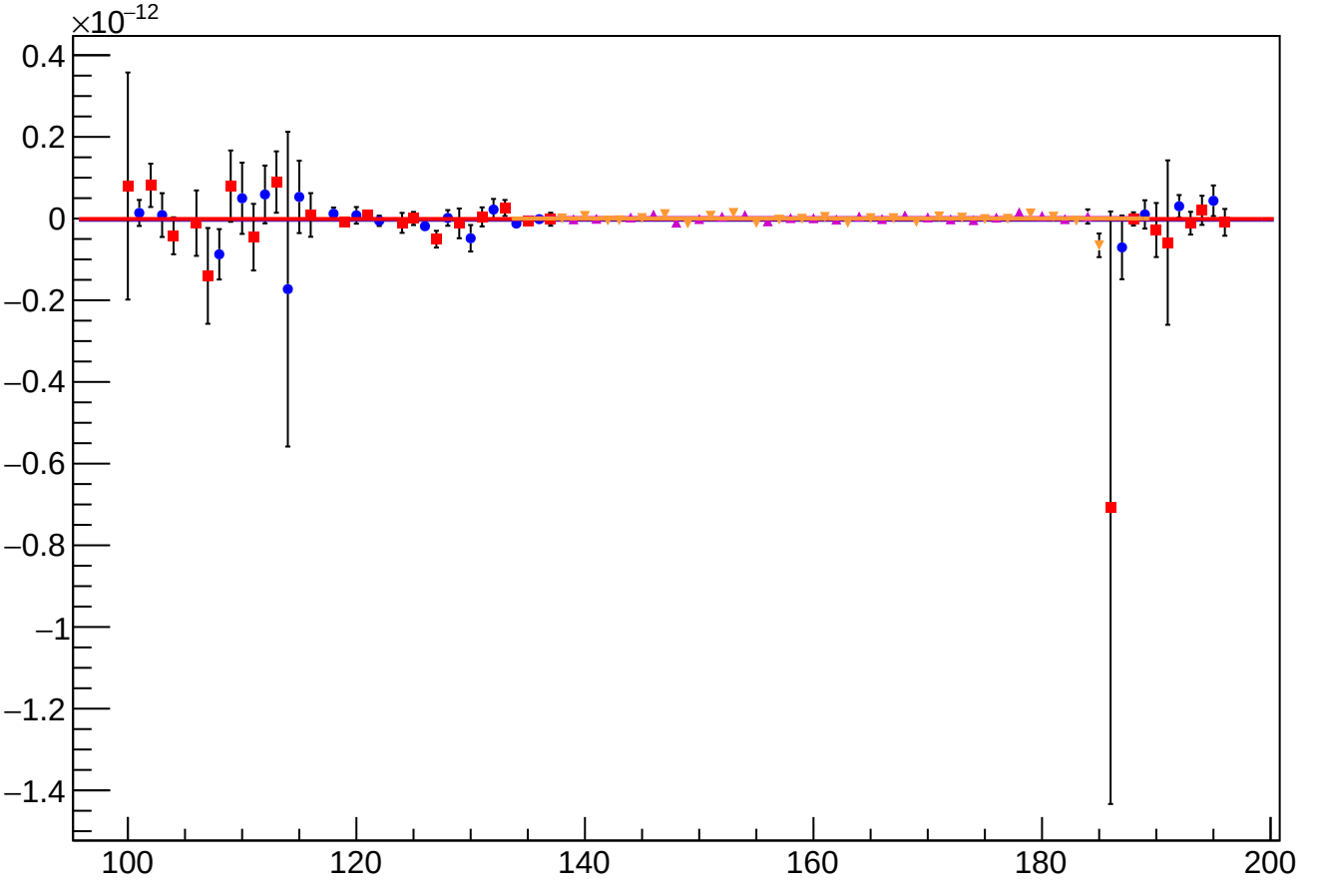
Left: 132.614+/-0.016 $\chi^2$/NDF: 2870363.4/47

Right: 224.860+/-0.038 $\chi^2$/NDF: 7286024.3/45

In: 145.362+/-0.021 $\chi^2$/NDF:6722088.3/42

Out: 147.116+/-0.020 $\chi^2$/NDF:8578894.8/50

All: 146.267+/-0.014 $\chi^2$/NDF: 15304671.5/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 15.4/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:32.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 19.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:14.9/22

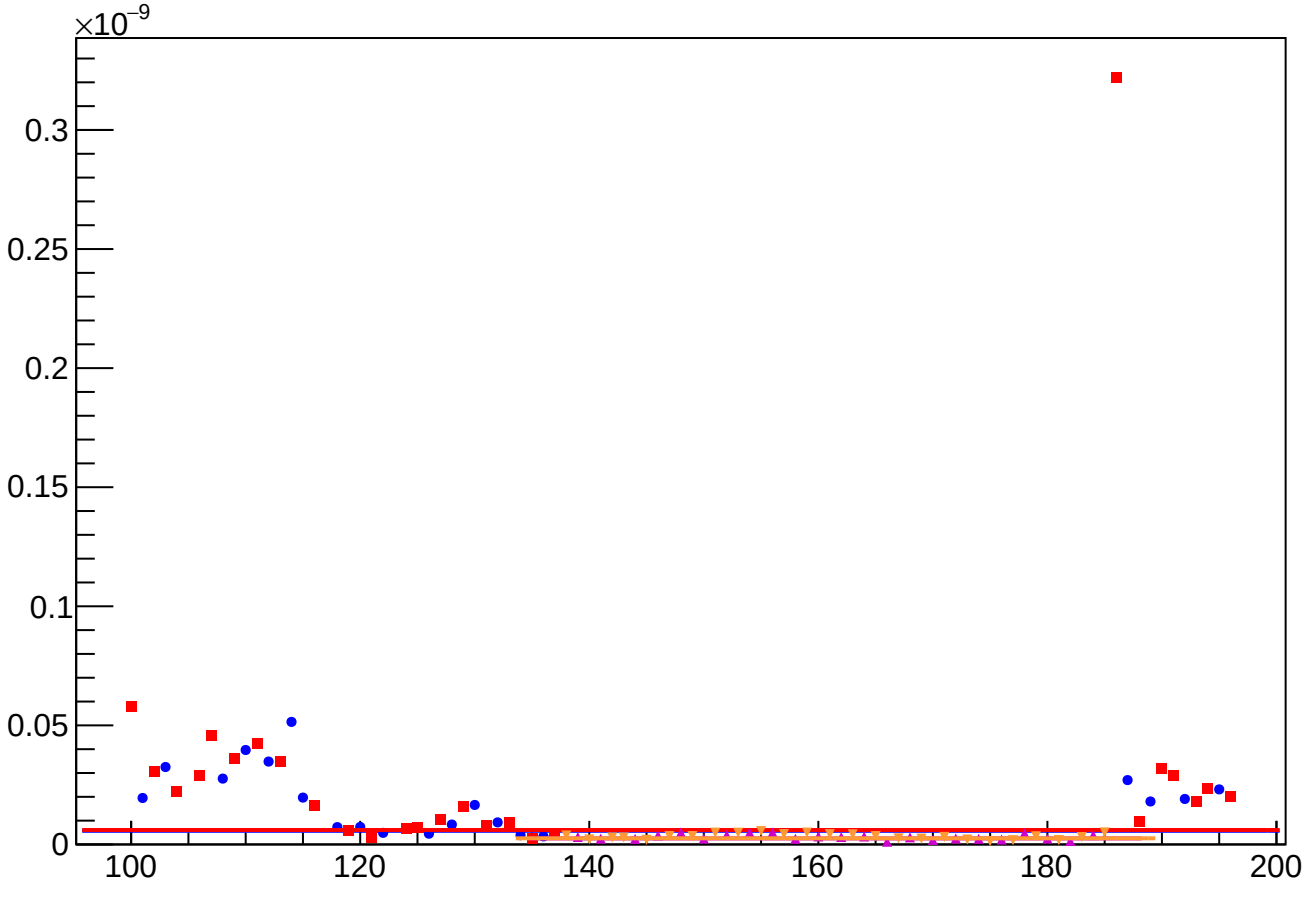
Left: 0.000+/-0.000 $\chi^2$/NDF: 47.6/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 35.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:31.6/42

Out: 0.000+/-0.000 $\chi^2$/NDF:52.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 84.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3967696.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2174042.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5360988.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1530752.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3707099.3/47

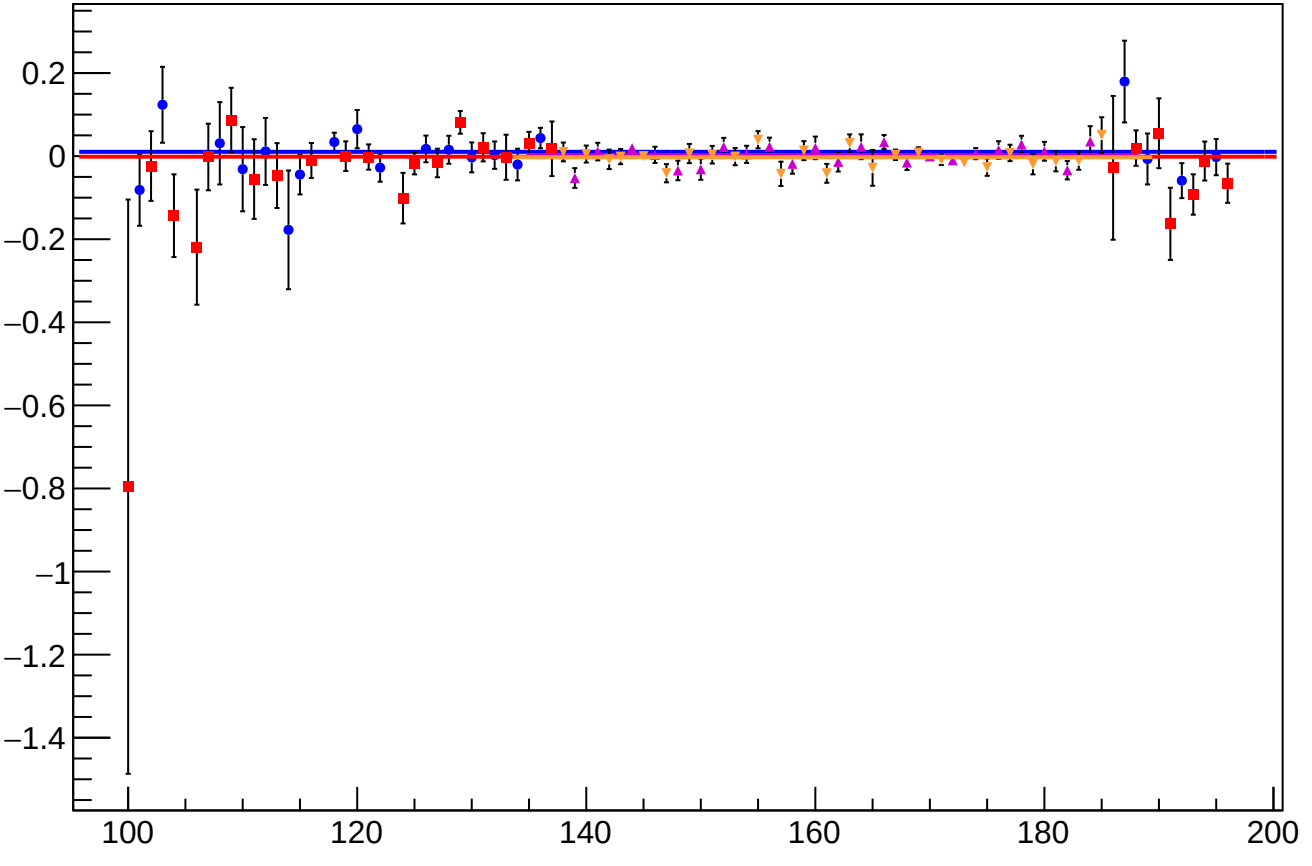
Right: 0.000+/-0.000 $\chi^2$/NDF: 9336166.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:6973244.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9140161.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 16114727.0/93

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.009 $\chi^2$/NDF: 18.3/19

Left Out: -0.003+/-0.004 $\chi^2$/NDF:22.6/24

Right Out: -0.001+/-0.009 $\chi^2$/NDF: 31.6/25

Left In: 0.002+/-0.004 $\chi^2$/NDF:26.9/22

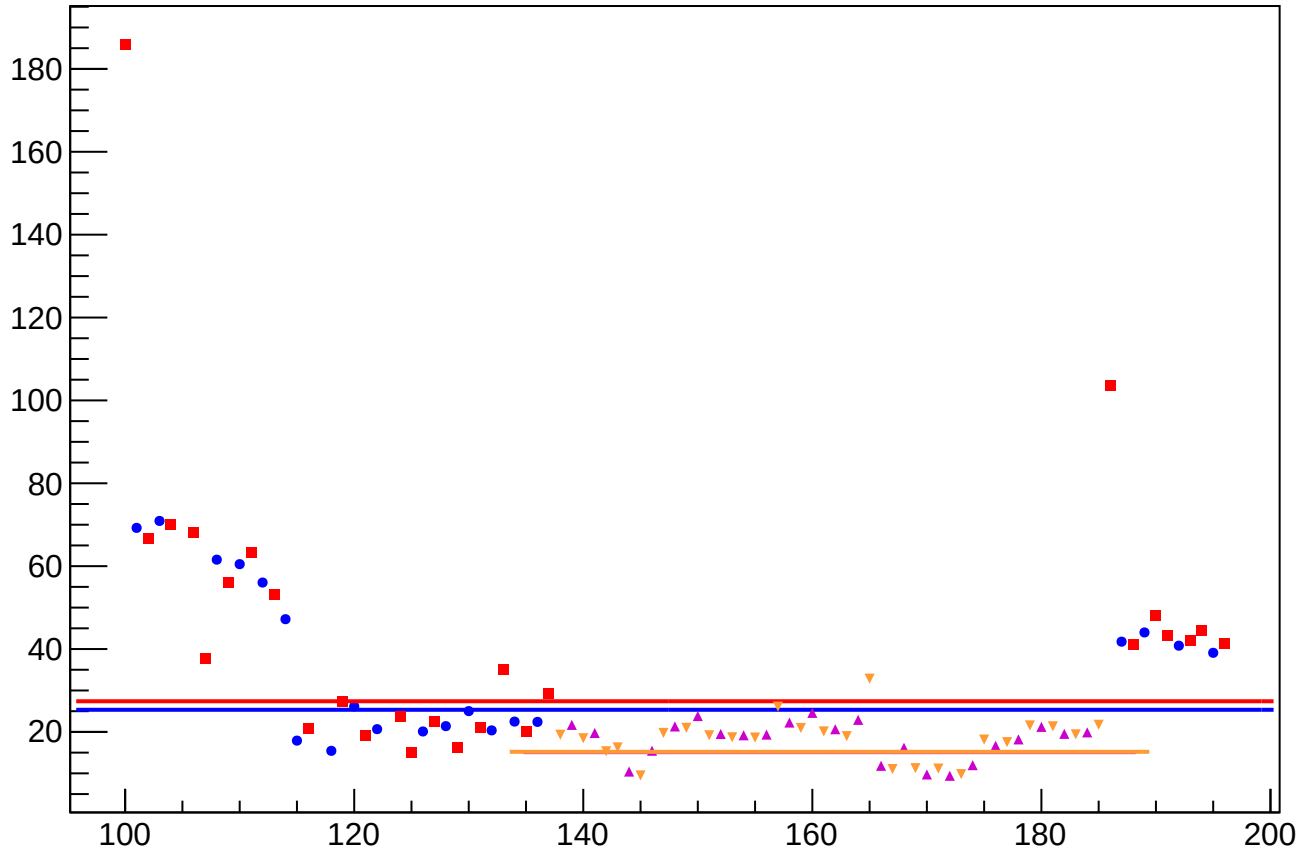
Left: -0.000+/-0.003 $\chi^2$/NDF: 50.5/47

Right: 0.004+/-0.006 $\chi^2$/NDF: 50.7/45

In: 0.003+/-0.004 $\chi^2$/NDF:45.9/42

Out: -0.003+/-0.003 $\chi^2$/NDF:54.2/50

All: 0.000+/-0.002 $\chi^2$/NDF: 101.6/93




Right In: 25.341+/-0.007 $\chi^2$/NDF: 3216701.1/19

Left Out: 15.202+/-0.003 $\chi^2$/NDF:3441921.2/24

Right Out: 27.400+/-0.006 $\chi^2$/NDF: 4551345.9/25

Left In: 15.116+/-0.003 $\chi^2$/NDF:3402288.3/22

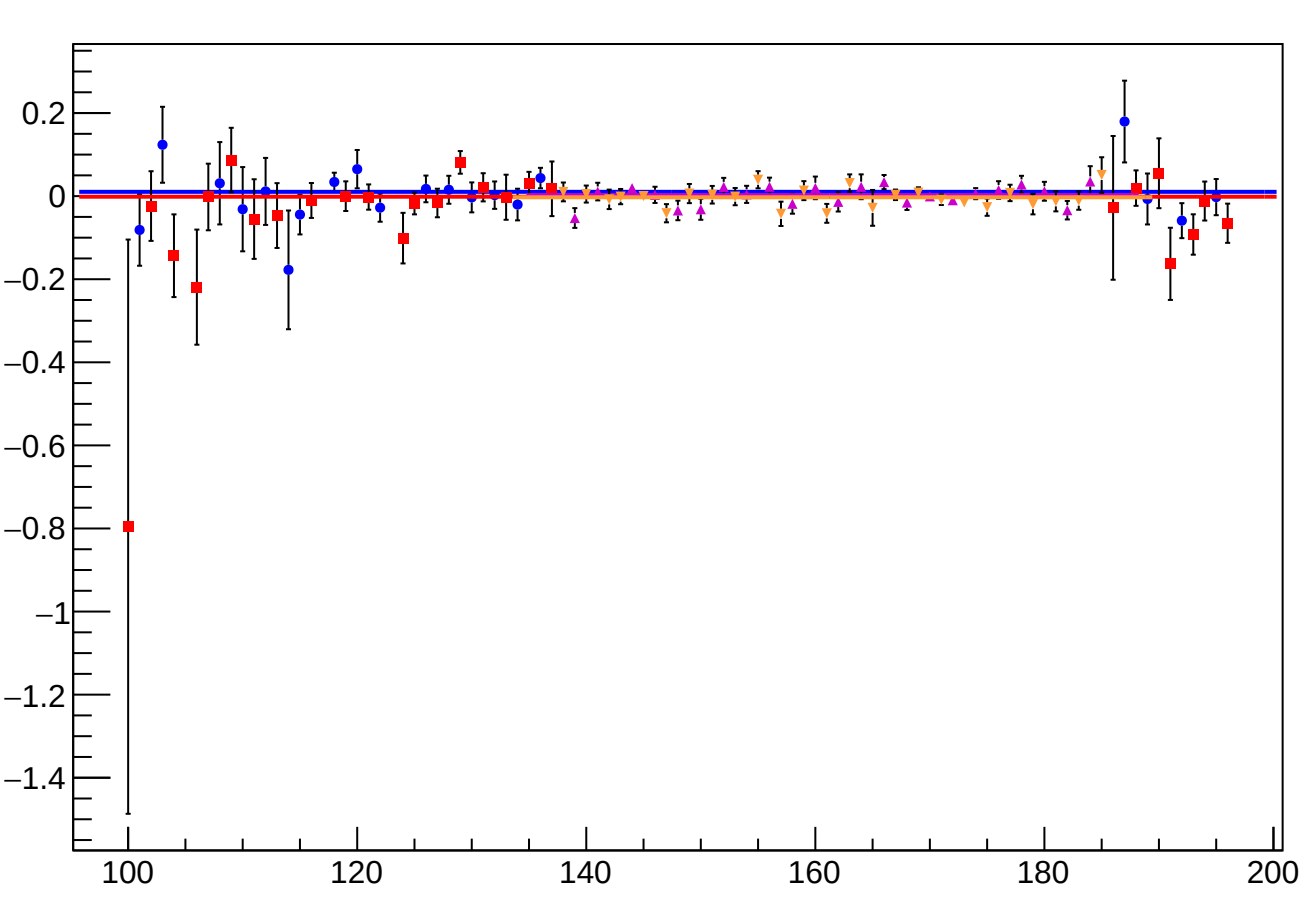
Left: 15.161+/-0.002 $\chi^2$/NDF: 6844723.3/47

Right: 26.382+/-0.005 $\chi^2$/NDF: 7818551.7/45

In: 16.619+/-0.002 $\chi^2$/NDF:8719111.5/42

Out: 16.933+/-0.002 $\chi^2$/NDF:11070234.3/50

All: 16.781+/-0.002 $\chi^2$/NDF: 19797457.1/93




Right In: 0.010+/-0.009 $\chi^2$/NDF: 18.3/19

Left Out: -0.003+/-0.004 $\chi^2$/NDF:22.6/24

Right Out: -0.001+/-0.009 $\chi^2$/NDF: 31.6/25

Left In: 0.002+/-0.004 $\chi^2$/NDF:26.9/22

Left: -0.000+/-0.003 $\chi^2$/NDF: 50.5/47

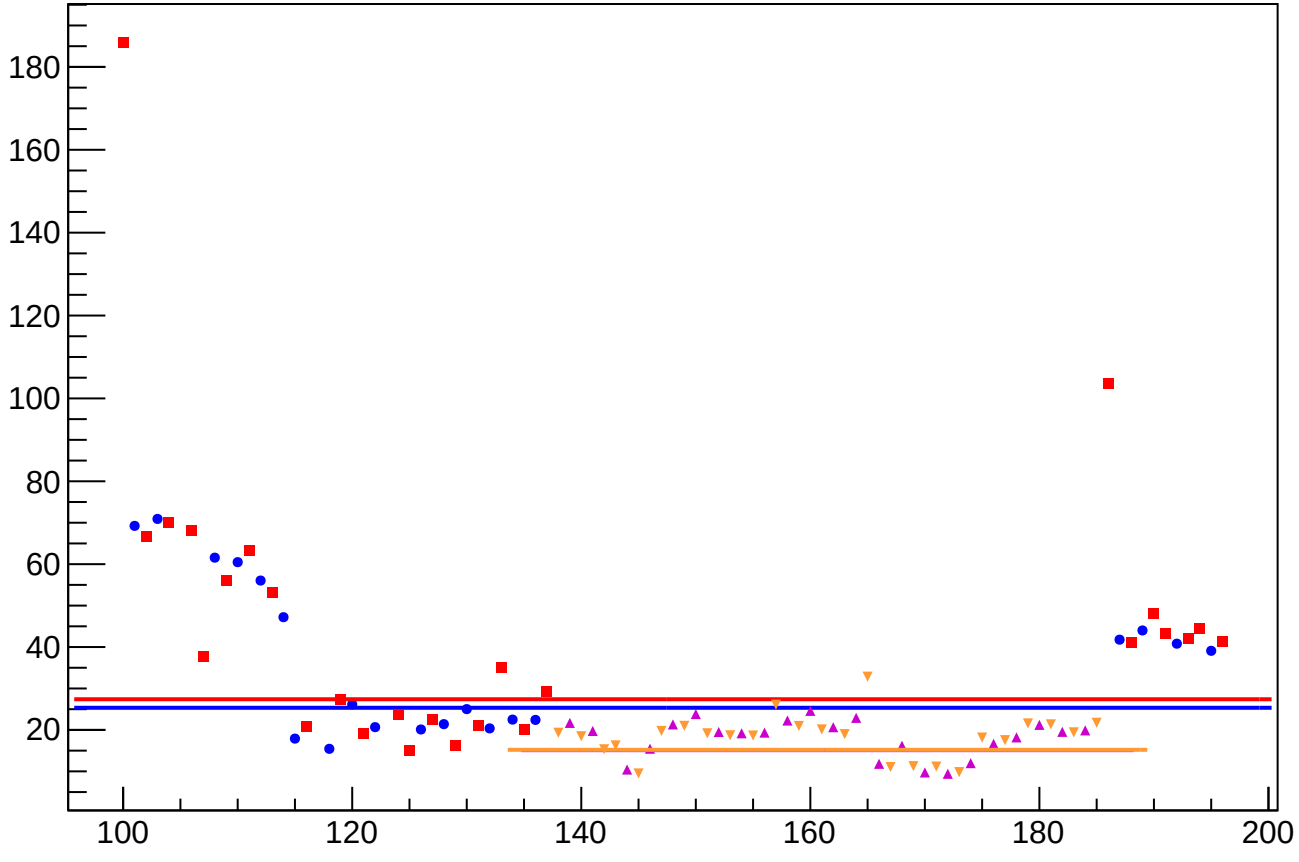
Right: 0.004+/-0.006 $\chi^2$/NDF: 50.7/45

In: 0.003+/-0.004 $\chi^2$/NDF:45.9/42

Out: -0.003+/-0.003 $\chi^2$/NDF:54.2/50

All: 0.000+/-0.002 $\chi^2$/NDF: 101.6/93

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.341+/-0.007 $\chi^2$/NDF: 3216701.1/19

Left Out: 15.202+/-0.003 $\chi^2$/NDF:3441921.2/24

Right Out: 27.400+/-0.006 $\chi^2$/NDF: 4551345.9/25

Left In: 15.116+/-0.003 $\chi^2$/NDF:3402288.3/22

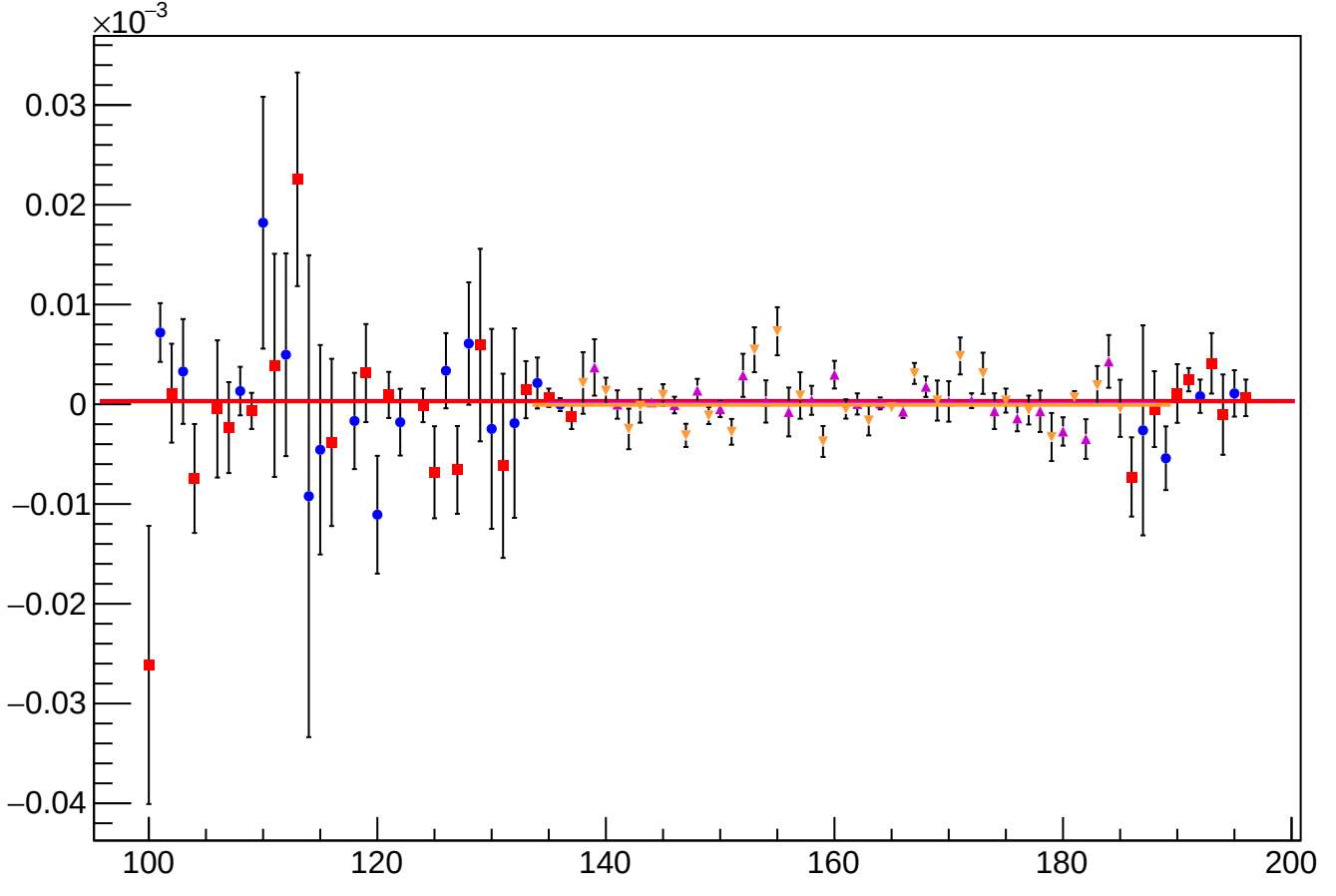
Left: 15.161+/-0.002 $\chi^2$/NDF: 6844723.3/47

Right: 26.382+/-0.005 $\chi^2$/NDF: 7818551.7/45

In: 16.619+/-0.002 $\chi^2$/NDF:8719111.5/42

Out: 16.933+/-0.002 $\chi^2$/NDF:11070234.3/50

All: 16.781+/-0.002 $\chi^2$/NDF: 19797457.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 18.8/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:62.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 27.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:25.5/22

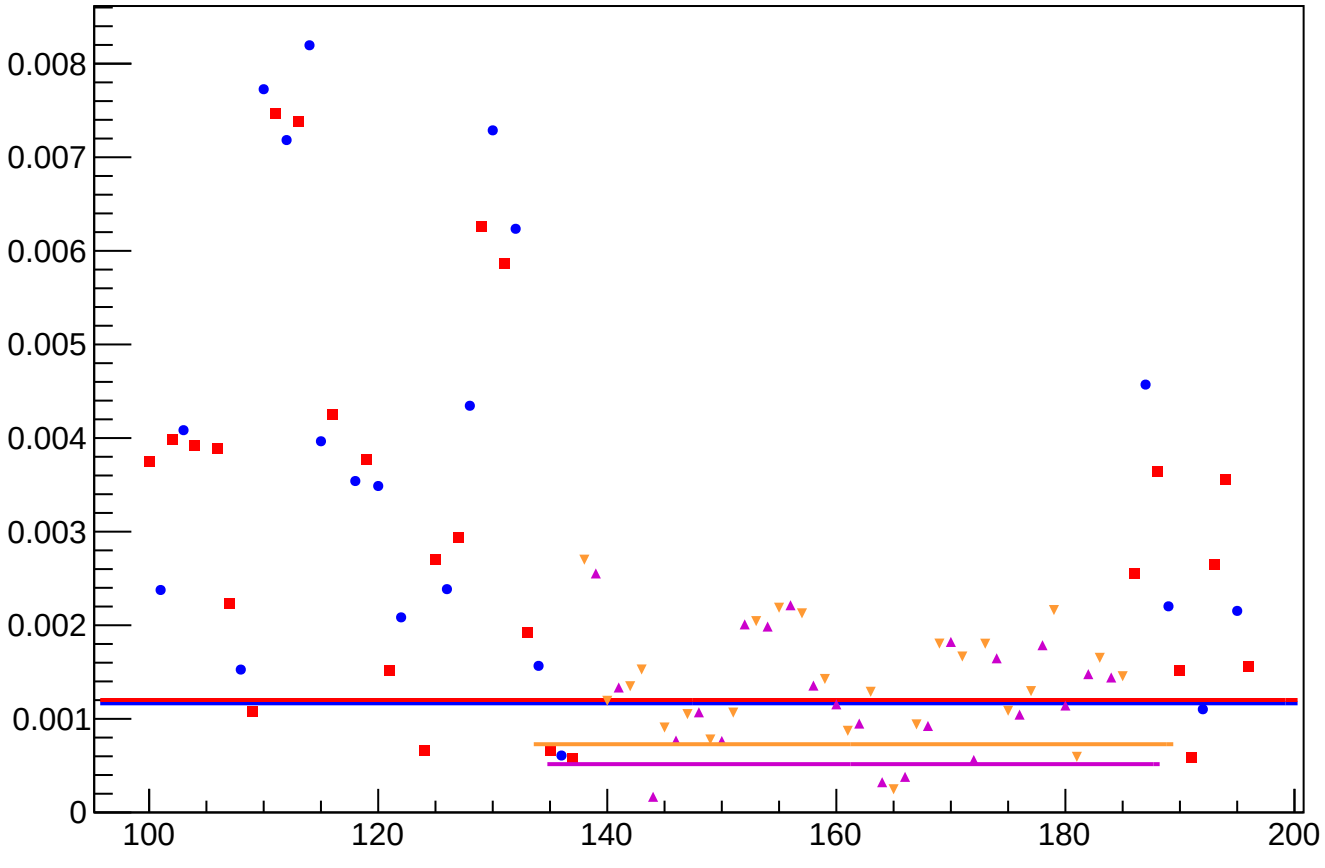
Left: 0.000+/-0.000 $\chi^2$/NDF: 88.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 46.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:90.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 135.6/93




Right In: 0.001+/-0.000 $\chi^2$/NDF: 7882910.3/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:13120515.6/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 9682085.2/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:15027708.0/22

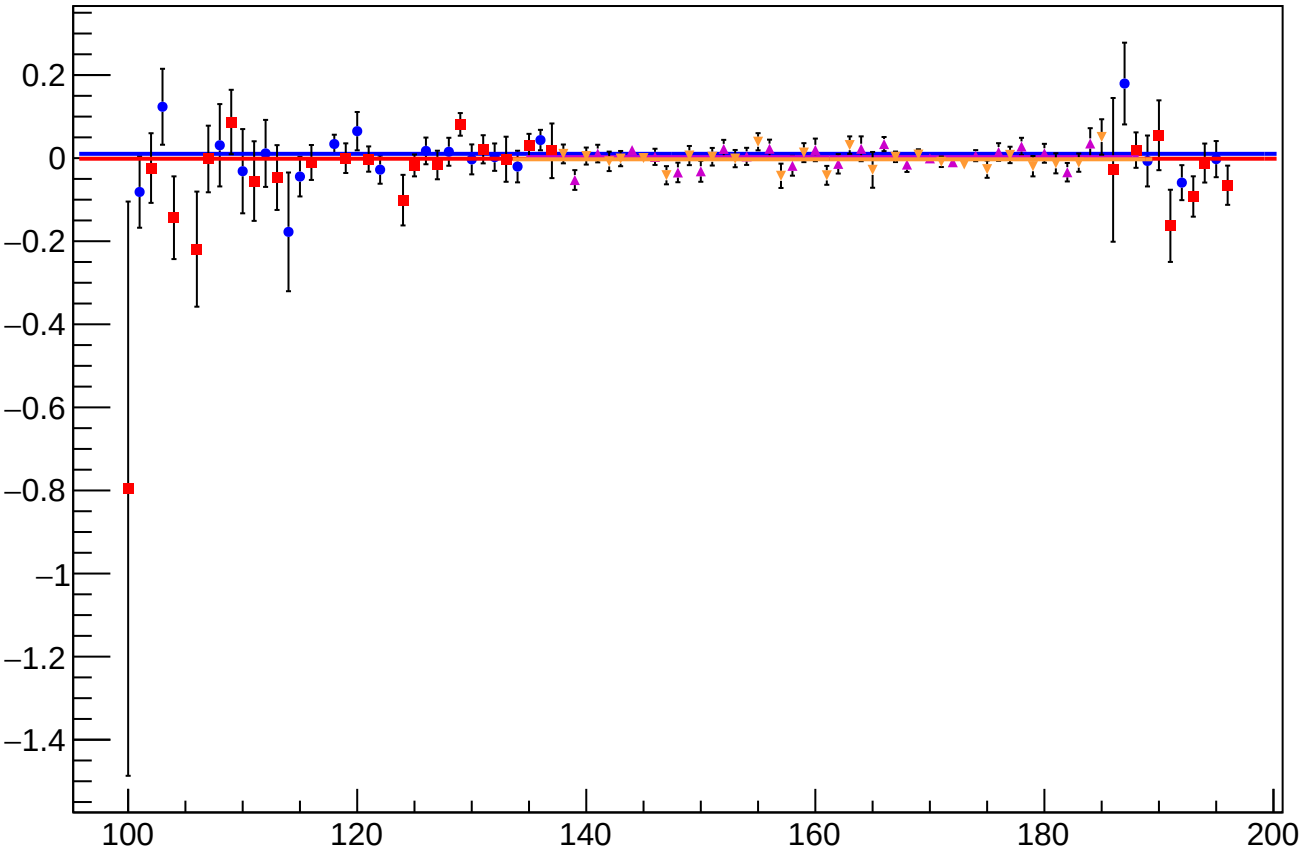
Left: 0.001+/-0.000 $\chi^2$/NDF: 29374928.0/47

Right: 0.001+/-0.000 $\chi^2$/NDF: 17570229.0/45

In: 0.001+/-0.000 $\chi^2$/NDF:25801029.9/42

Out: 0.001+/-0.000 $\chi^2$/NDF:24497511.6/50

All: 0.001+/-0.000 $\chi^2$/NDF: 51853138.5/93




Right In: 0.010+/-0.009 $\chi^2$/NDF: 18.3/19

Left Out: -0.003+/-0.004 $\chi^2$/NDF:22.6/24

Right Out: -0.001+/-0.009 $\chi^2$/NDF: 31.6/25

Left In: 0.002+/-0.004 $\chi^2$/NDF:26.9/22

Left: -0.000+/-0.003 $\chi^2$/NDF: 50.5/47

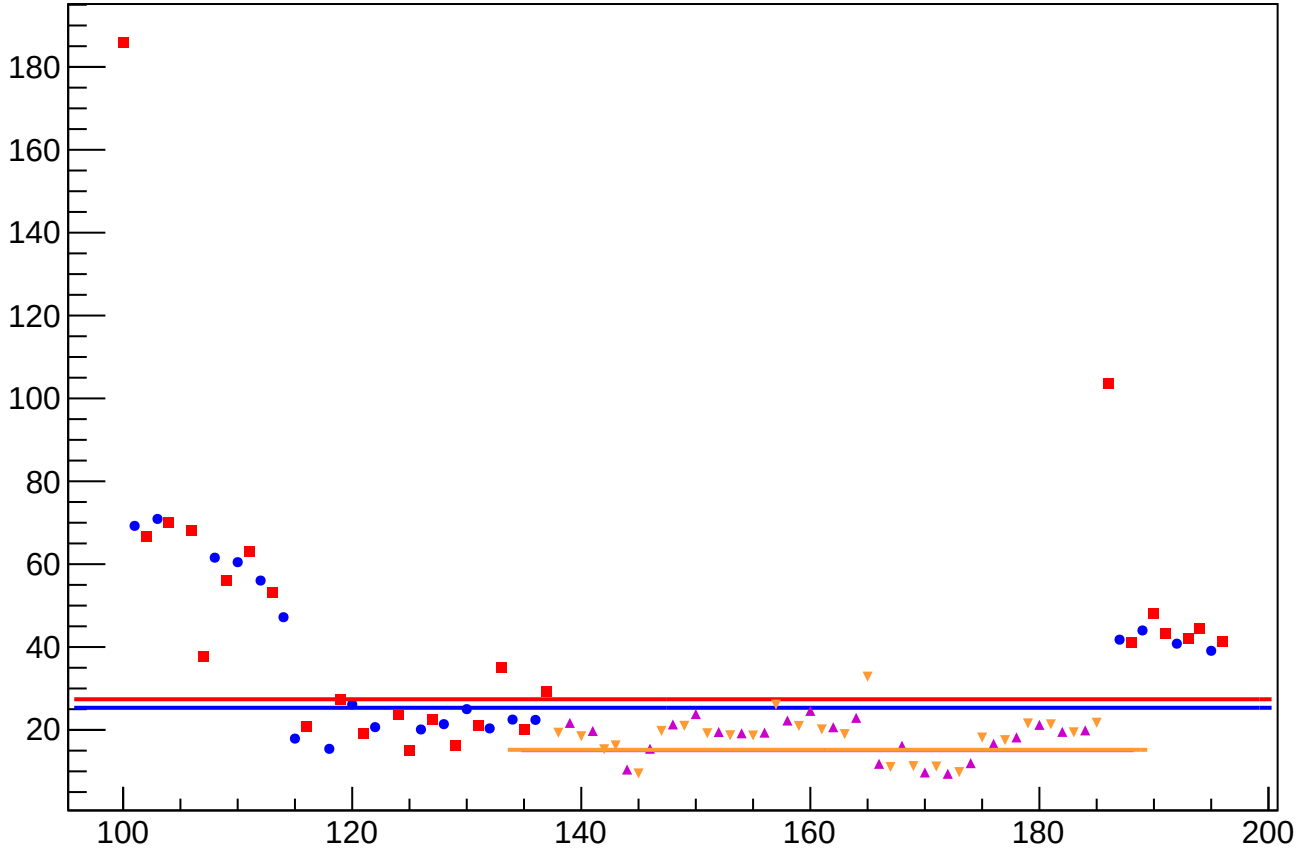
Right: 0.004+/-0.006 $\chi^2$/NDF: 50.7/45

In: 0.003+/-0.004 $\chi^2$/NDF:45.9/42

Out: -0.003+/-0.003 $\chi^2$/NDF:54.2/50

All: 0.000+/-0.002 $\chi^2$/NDF: 101.6/93

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.339+/-0.007 $\chi^2$/NDF: 3216905.6/19

Left Out: 15.202+/-0.003 $\chi^2$/NDF:3442015.2/24

Right Out: 27.399+/-0.006 $\chi^2$/NDF: 4551504.3/25

Left In: 15.117+/-0.003 $\chi^2$/NDF:3402318.1/22

Left: 15.161+/-0.002 $\chi^2$/NDF: 6844846.5/47

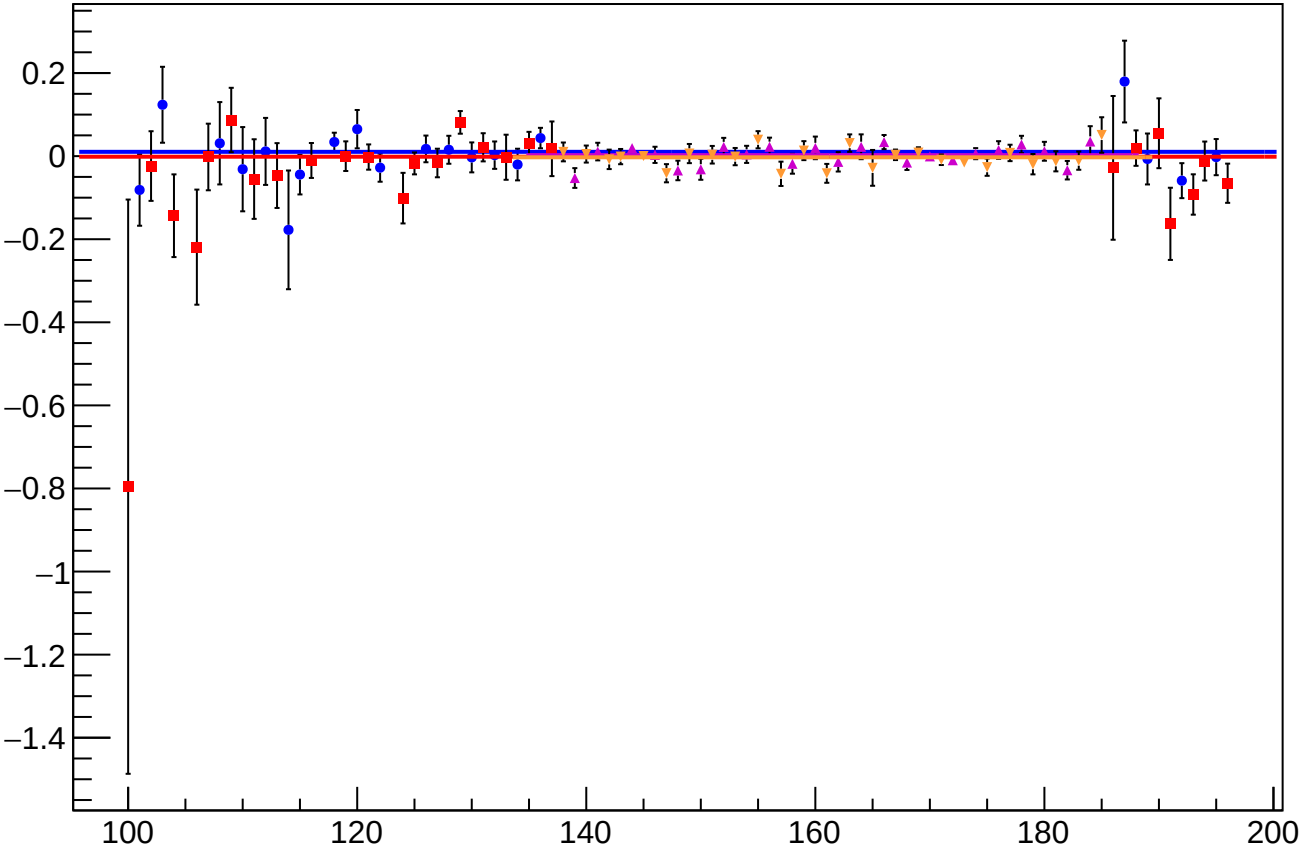
Right: 26.381+/-0.005 $\chi^2$/NDF: 7818954.5/45

In: 16.619+/-0.002 $\chi^2$/NDF:8718917.8/42

Out: 16.933+/-0.002 $\chi^2$/NDF:11070263.1/50

All: 16.781+/-0.002 $\chi^2$/NDF: 19797292.6/93

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.010+/-0.009 $\chi^2$/NDF: 18.3/19

Left Out: -0.003+/-0.004 $\chi^2$/NDF:22.6/24

Right Out: -0.001+/-0.009 $\chi^2$/NDF: 31.6/25

Left In: 0.002+/-0.004 $\chi^2$/NDF:26.9/22

Left: -0.000+/-0.003 $\chi^2$/NDF: 50.5/47

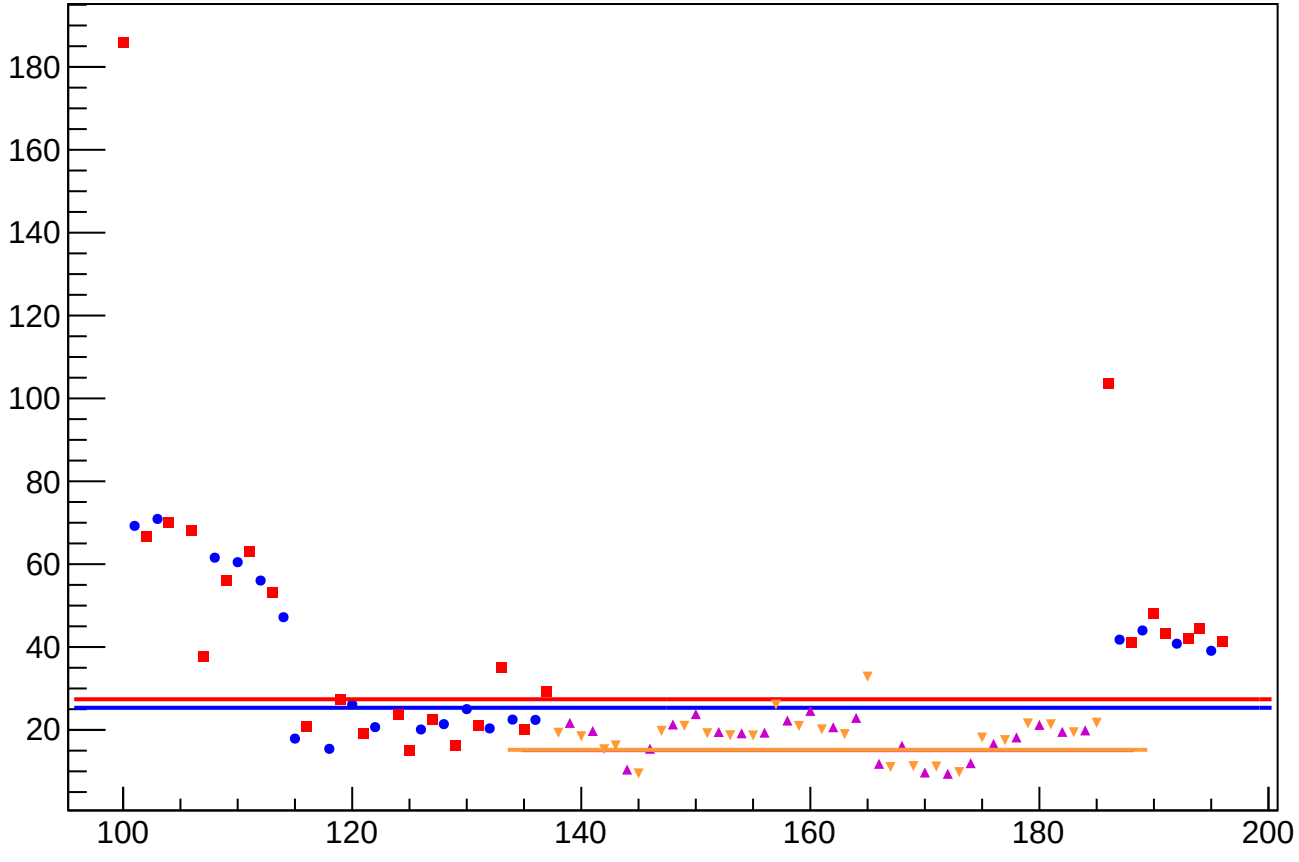
Right: 0.004+/-0.006 $\chi^2$/NDF: 50.7/45

In: 0.003+/-0.004 $\chi^2$/NDF:45.9/42

Out: -0.003+/-0.003 $\chi^2$/NDF:54.2/50

All: 0.000+/-0.002 $\chi^2$/NDF: 101.6/93

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 25.339+/-0.007 $\chi^2$/NDF: 3216905.6/19

Left Out: 15.202+/-0.003 $\chi^2$/NDF:3442015.2/24

Right Out: 27.399+/-0.006 $\chi^2$/NDF: 4551504.3/25

Left In: 15.117+/-0.003 $\chi^2$/NDF:3402318.1/22

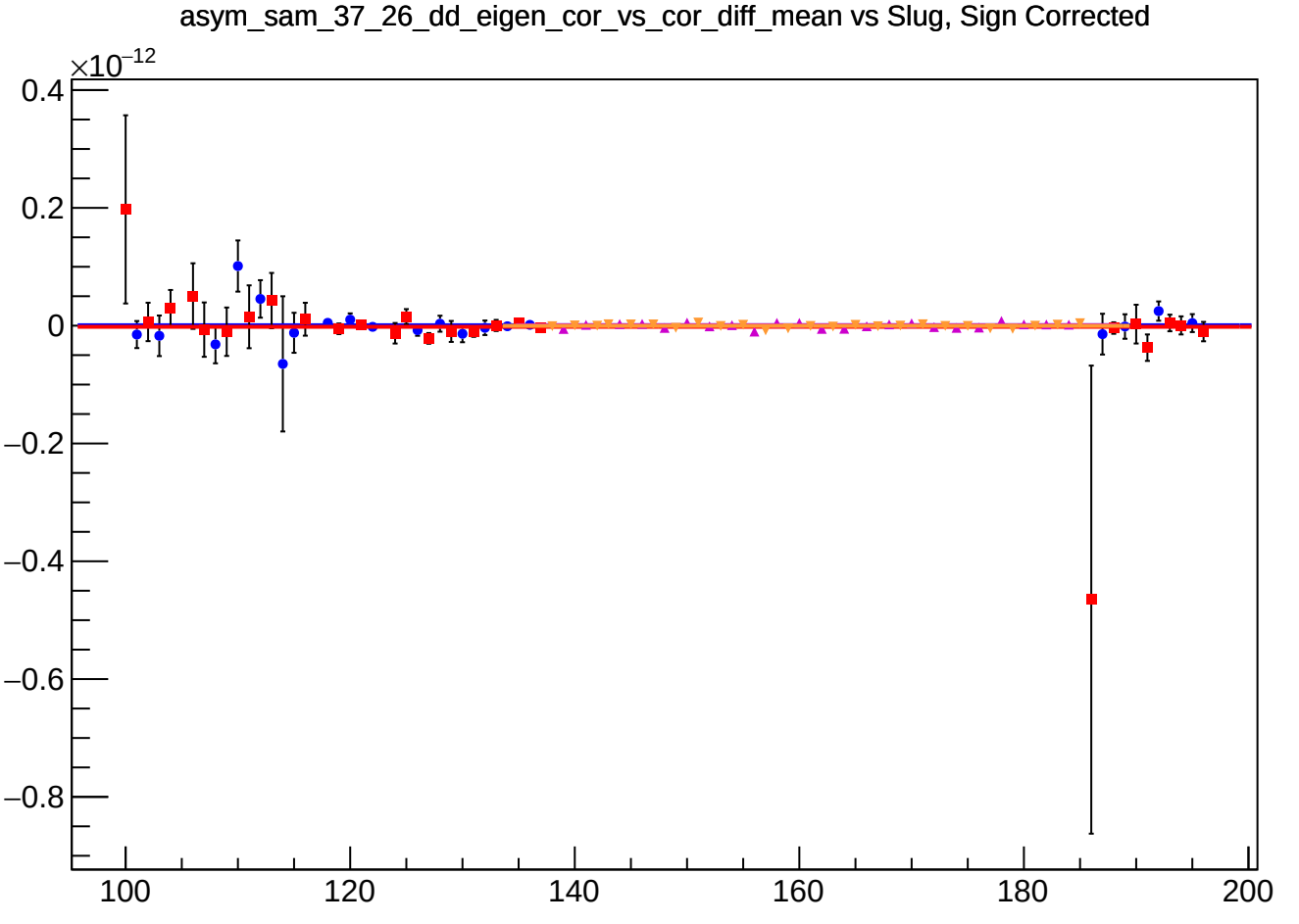
Left: 15.161+/-0.002 $\chi^2$/NDF: 6844846.5/47

Right: 26.381+/-0.005 $\chi^2$/NDF: 7818954.5/45

In: 16.619+/-0.002 $\chi^2$/NDF:8718917.8/42

Out: 16.933+/-0.002 $\chi^2$/NDF:11070263.1/50

All: 16.781+/-0.002 $\chi^2$/NDF: 19797292.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 15.4/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:21.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 20.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:39.5/22

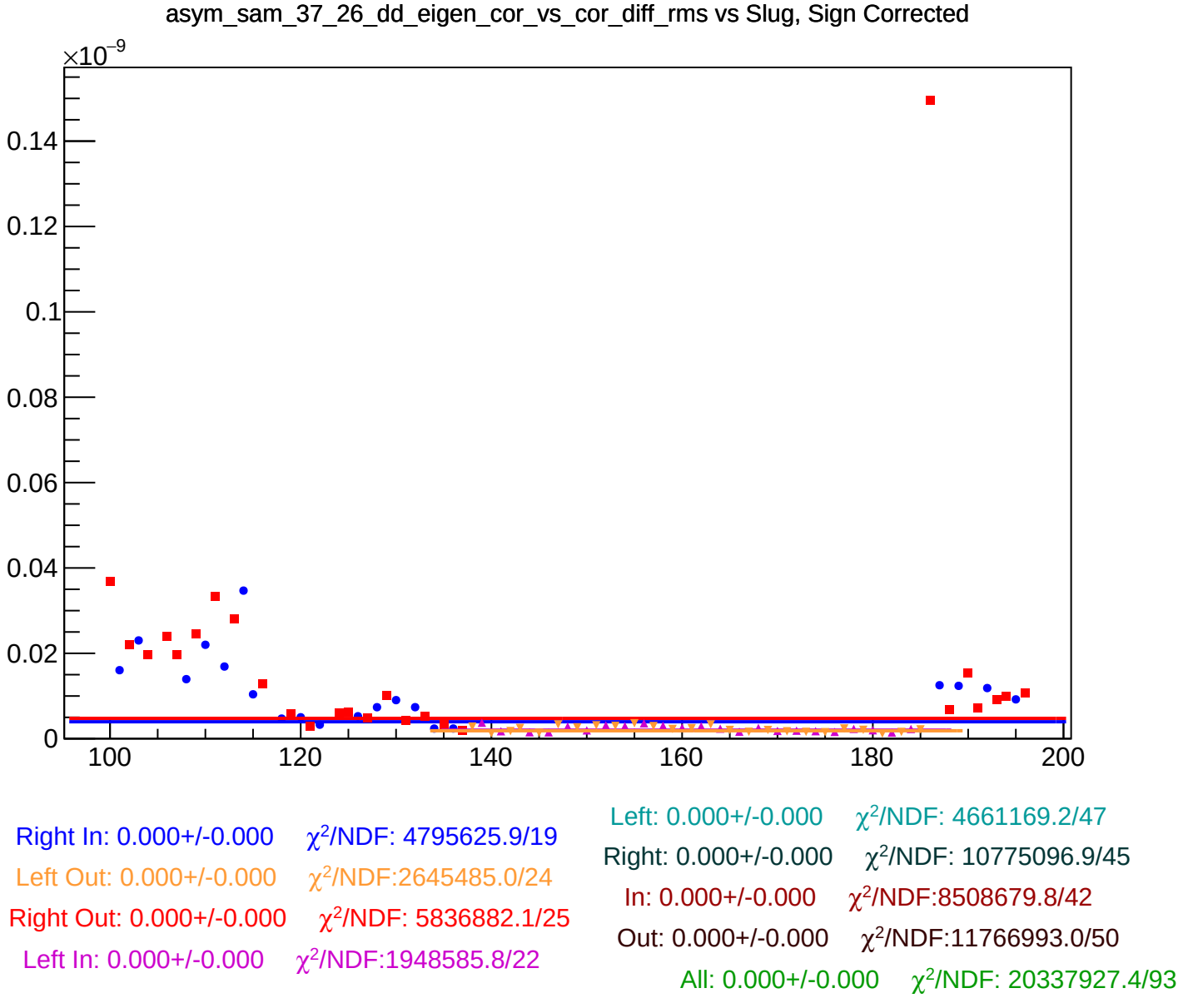
Left: 0.000+/-0.000 $\chi^2$/NDF: 62.7/47

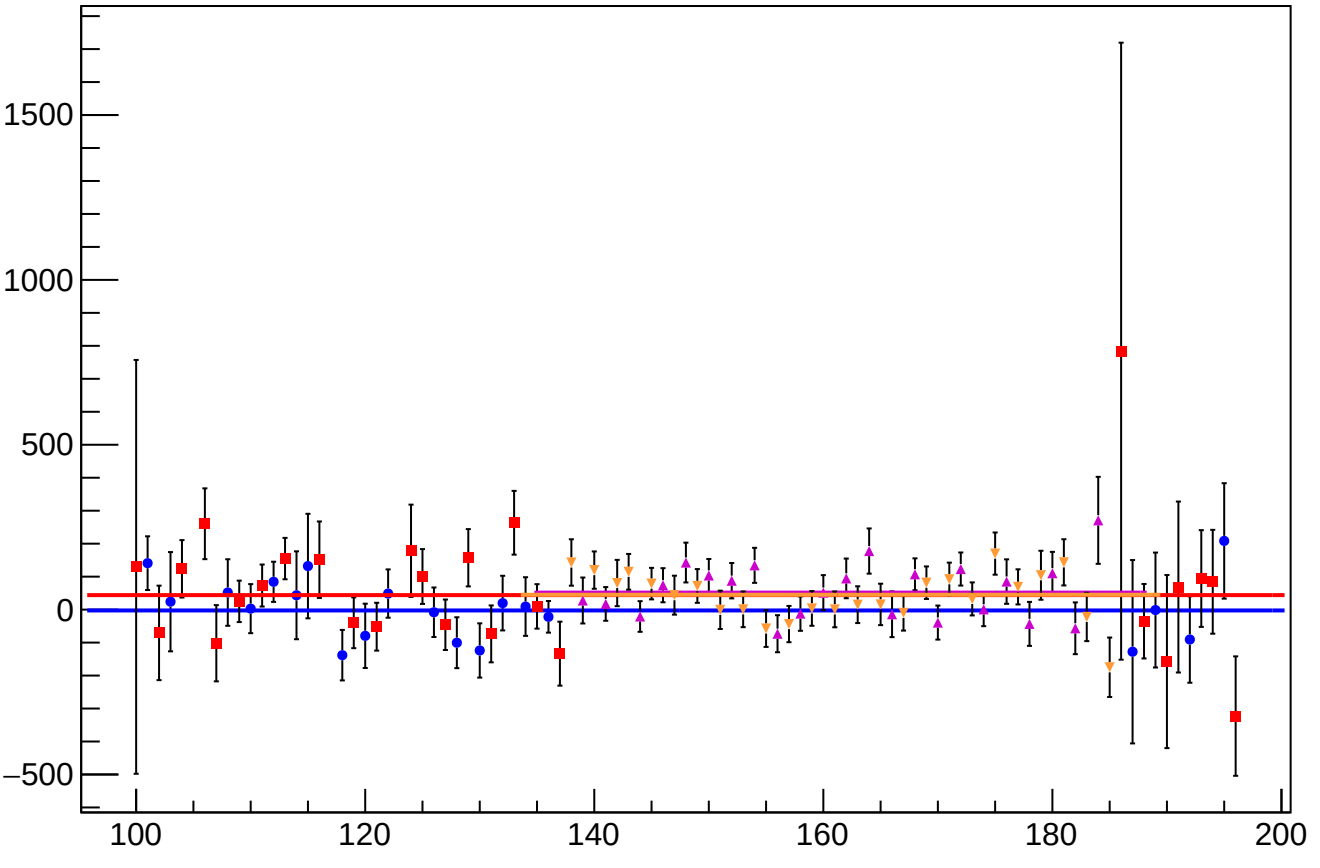
Right: -0.000+/-0.000 $\chi^2$/NDF: 36.2/45

In: 0.000+/-0.000 $\chi^2$/NDF:54.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:42.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 99.1/93


asym_sam_37_26_dd_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
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4795625.9/19
Left Out: 0.000+/-0.000 χ²/NDF:2645485.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 5836882.1/25
Left In: 0.000+/-0.000 χ²/NDF:1948585.8/22
Left: 0.000+/-0.000 χ²/NDF: 4661169.2/47
Right: 0.000+/-0.000 χ²/NDF: 10775096.9/45
In: 0.000+/-0.000 χ²/NDF:8508679.8/42
Out: 0.000+/-0.000 χ²/NDF:11766993.0/50
All: 0.000+/-0.000 χ²/NDF: 20337927.4/93




Right In: -2.541+/-19.470 $\chi^2$/NDF: 16.7/19

Left Out: 45.093+/-11.495 $\chi^2$/NDF:31.3/24

Right Out: 43.984+/-18.819 $\chi^2$/NDF: 35.4/25

Left In: 51.616+/-11.929 $\chi^2$/NDF:35.9/22

Left: 48.233+/-8.277 $\chi^2$/NDF: 67.4/47

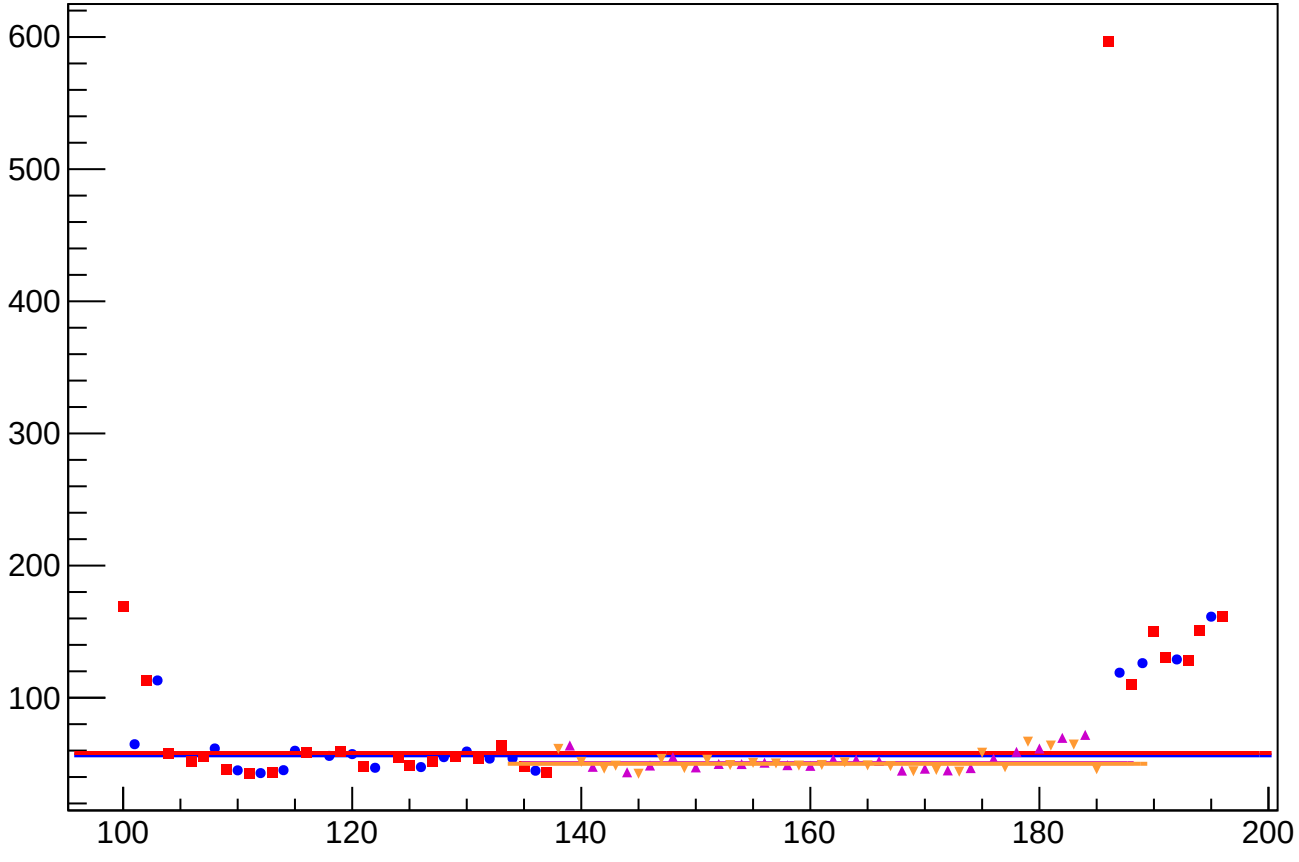
Right: 21.512+/-13.531 $\chi^2$/NDF: 55.1/45

In: 36.835+/-10.171 $\chi^2$/NDF:58.2/42

Out: 44.791+/-9.809 $\chi^2$/NDF:66.8/50

All: 40.957+/-7.061 $\chi^2$/NDF: 125.3/93

# reg_asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 56.427+/-0.014 $\chi^2$/NDF: 2408074.2/19

Left Out: 50.021+/-0.008 $\chi^2$/NDF:509100.0/24

Right Out: 58.178+/-0.013 $\chi^2$/NDF: 4146382.1/25

Left In: 50.512+/-0.008 $\chi^2$/NDF:503409.2/22

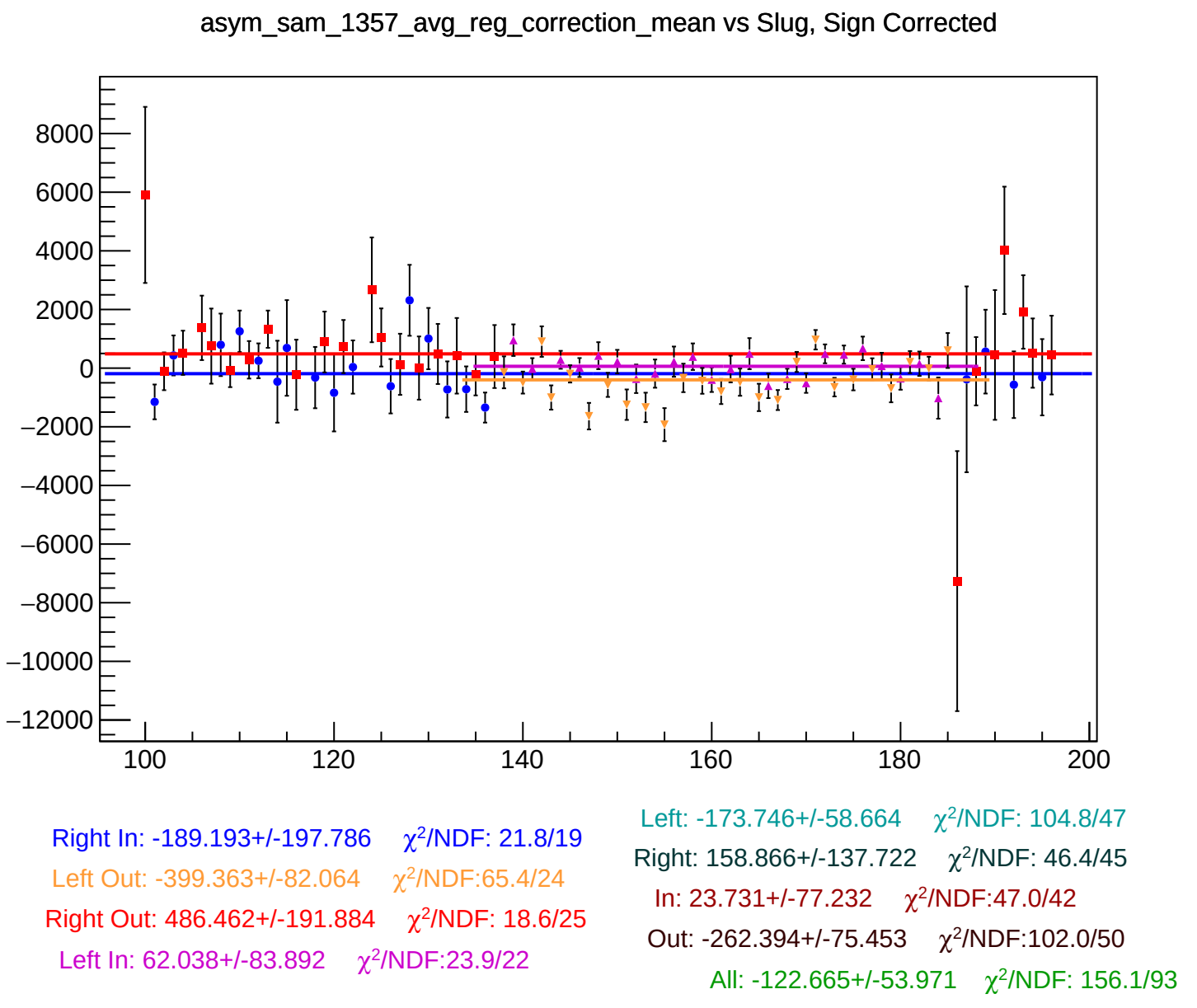
Left: 50.258+/-0.006 $\chi^2$/NDF: 1014266.6/47

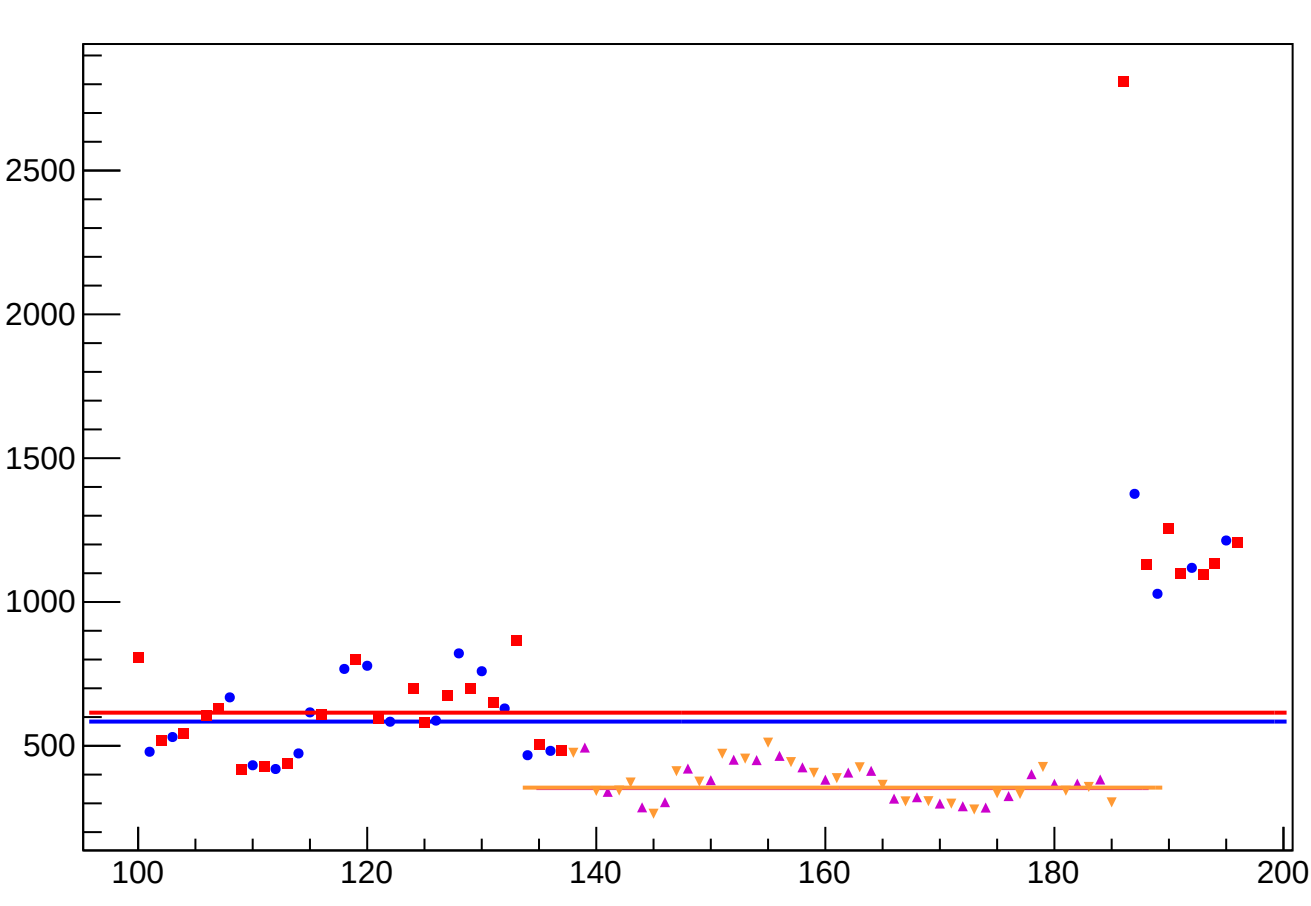
Right: 57.332+/-0.010 $\chi^2$/NDF: 6562822.5/45

In: 52.126+/-0.007 $\chi^2$/NDF:3045680.1/42

Out: 52.237+/-0.007 $\chi^2$/NDF:4929136.3/50

All: 52.184+/-0.005 $\chi^2$/NDF: 7974939.8/93


asym_sam_1357_avg_reg_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -189.193+/-197.786 χ²/NDF: 21.8/19
Left Out: -399.363+/-82.064 χ²/NDF:65.4/24
Right Out: 486.462+/-191.884 χ²/NDF: 18.6/25
Left In: 62.038+/-83.892 χ²/NDF:23.9/22
Left: -173.746+/-58.664 χ²/NDF: 104.8/47
Right: 158.866+/-137.722 χ²/NDF: 46.4/45
In: 23.731+/-77.232 χ²/NDF:47.0/42
Out: -262.394+/-75.453 χ²/NDF:102.0/50
All: -122.665+/-53.971 χ²/NDF: 156.1/93




Right In: 584.307+/-0.140 $\chi^2$/NDF: 1941932.1/19

Left Out: 354.670+/-0.058 $\chi^2$/NDF:1145465.6/24

Right Out: 615.290+/-0.136 $\chi^2$/NDF: 3107604.4/25

Left In: 353.110+/-0.059 $\chi^2$/NDF:1004127.0/22

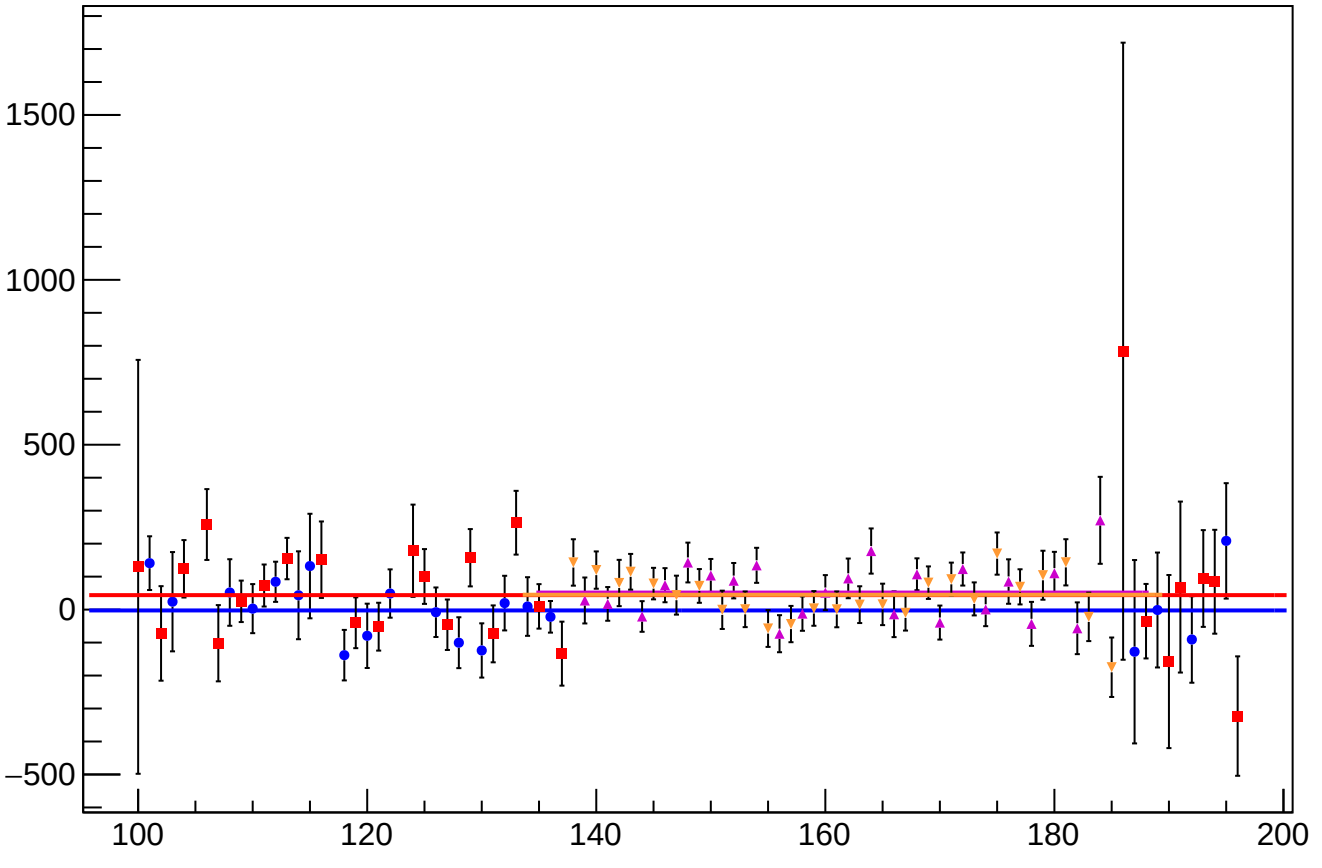
Left: 353.907+/-0.041 $\chi^2$/NDF: 2149946.0/47

Right: 600.268+/-0.097 $\chi^2$/NDF: 5074818.3/45

In: 388.362+/-0.055 $\chi^2$/NDF:5262154.9/42

Out: 394.968+/-0.053 $\chi^2$/NDF:7372106.0/50

All: 391.742+/-0.038 $\chi^2$/NDF: 12641746.8/93




Right In: -2.545+/-19.470 $\chi^2$/NDF: 16.7/19

Left Out: 45.096+/-11.495 $\chi^2$/NDF:31.3/24

Right Out: 43.875+/-18.819 $\chi^2$/NDF: 35.4/25

Left In: 51.616+/-11.929 $\chi^2$/NDF:35.8/22

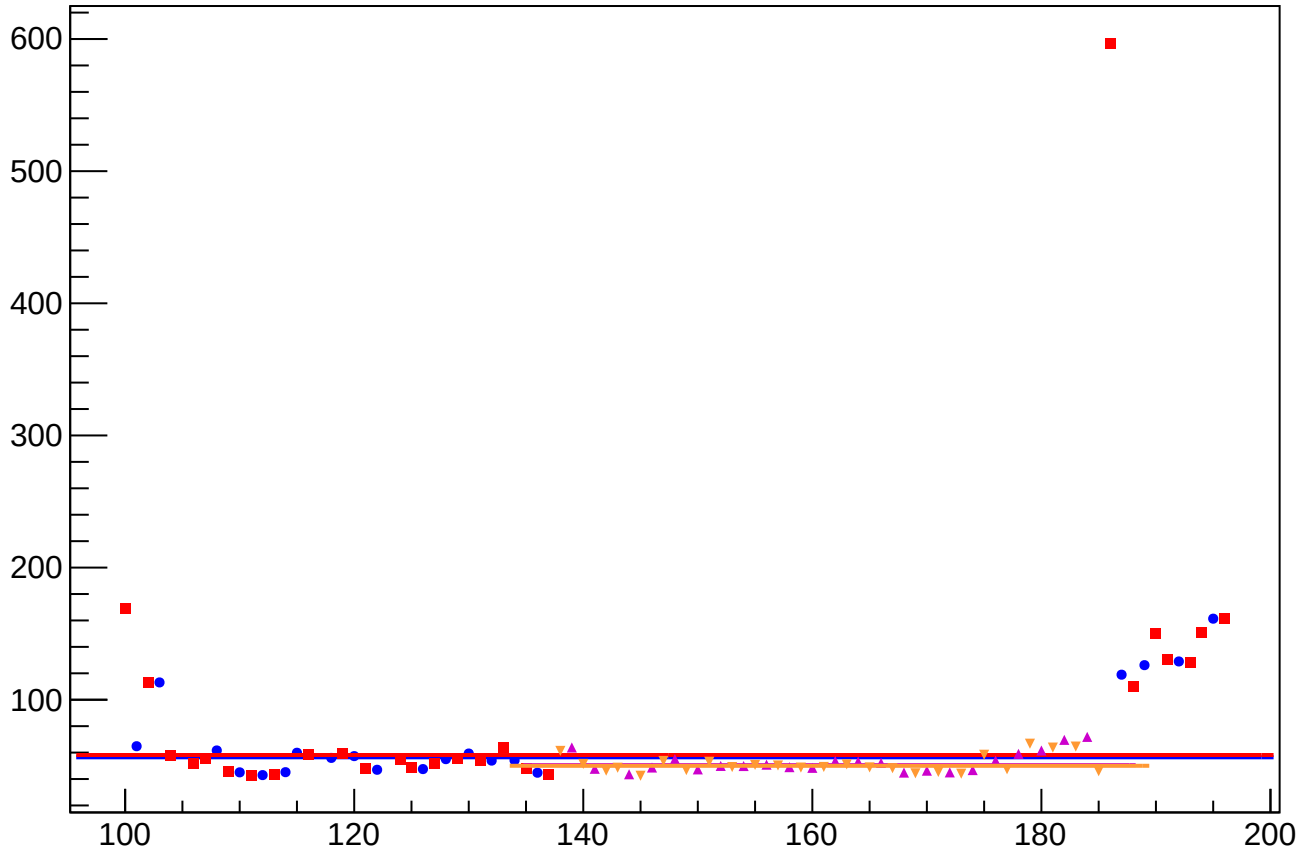
Left: 48.235+/-8.277 $\chi^2$/NDF: 67.3/47

Right: 21.453+/-13.531 $\chi^2$/NDF: 55.0/45

In: 36.834+/-10.171 $\chi^2$/NDF:58.2/42

Out: 44.764+/-9.810 $\chi^2$/NDF:66.7/50

All: 40.943+/-7.061 $\chi^2$/NDF: 125.2/93




Right In: 56.427+/-0.014 $\chi^2$/NDF: 2408076.5/19

Left Out: 50.021+/-0.008 $\chi^2$/NDF:509100.0/24

Right Out: 58.169+/-0.013 $\chi^2$/NDF: 4147299.6/25

Left In: 50.512+/-0.008 $\chi^2$/NDF:503409.2/22

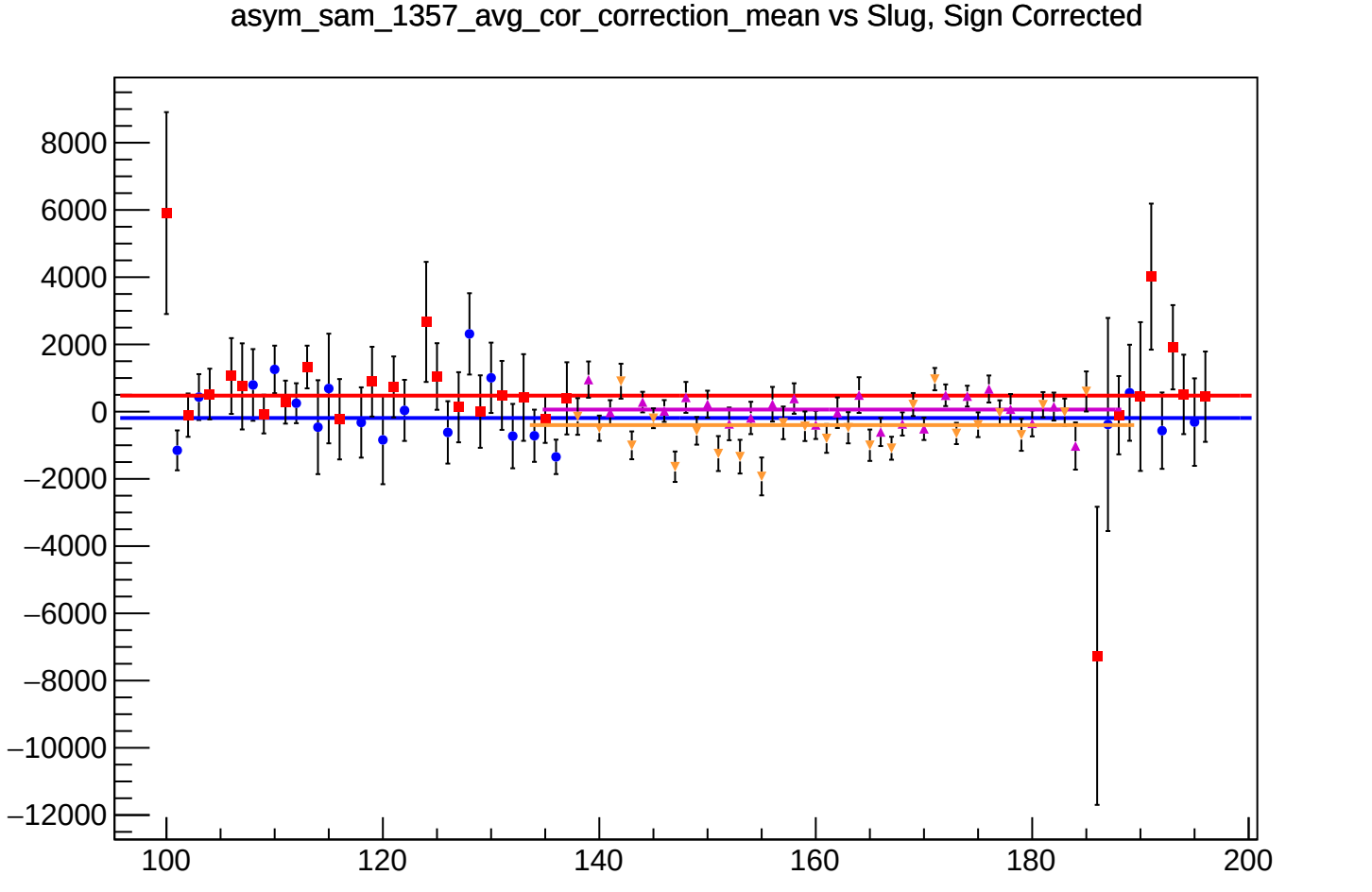
Left: 50.258+/-0.006 $\chi^2$/NDF: 1014266.6/47

Right: 57.327+/-0.010 $\chi^2$/NDF: 6563654.9/45

In: 52.126+/-0.007 $\chi^2$/NDF:3045682.4/42

Out: 52.235+/-0.007 $\chi^2$/NDF:4929430.0/50

All: 52.183+/-0.005 $\chi^2$/NDF: 7975230.2/93




Right In: -189.172+/-197.788 $\chi^2$/NDF: 21.8/19

Left Out: -399.358+/-82.064 $\chi^2$/NDF:65.4/24

Right Out: 476.454+/-192.044 $\chi^2$/NDF: 18.2/25

Left In: 62.038+/-83.892 $\chi^2$/NDF:23.9/22

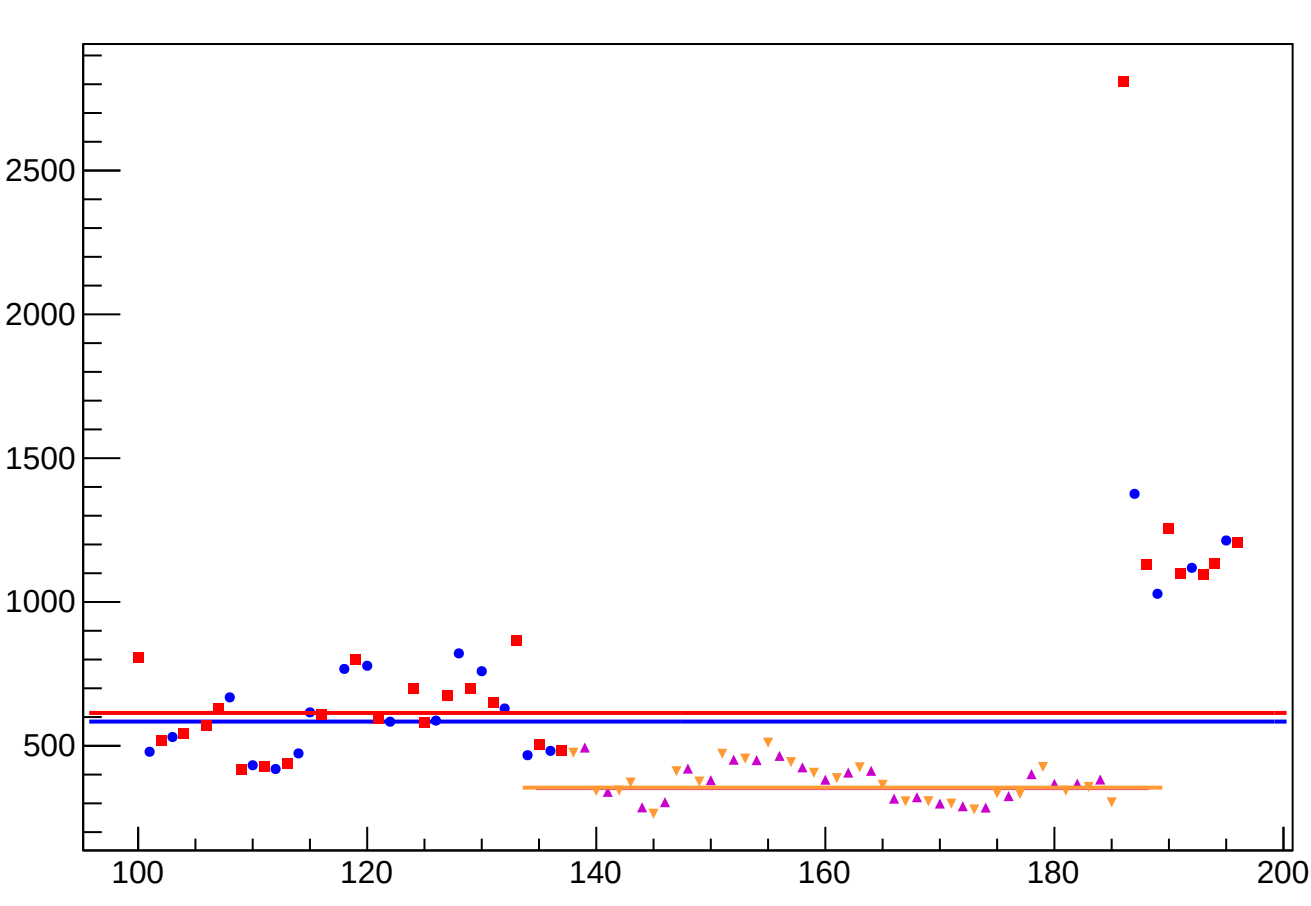
Left: -173.744+/-58.664 $\chi^2$/NDF: 104.8/47

Right: 153.445+/-137.782 $\chi^2$/NDF: 45.8/45

In: 23.734+/-77.232 $\chi^2$/NDF:47.0/42

Out: -264.129+/-75.463 $\chi^2$/NDF:101.2/50

All: -123.533+/-53.975 $\chi^2$/NDF: 155.3/93




Right In: 584.313+/-0.140 $\chi^2$/NDF: 1941904.0/19

Left Out: 354.670+/-0.058 $\chi^2$/NDF:1145468.3/24

Right Out: 614.334+/-0.136 $\chi^2$/NDF: 3110011.6/25

Left In: 353.110+/-0.059 $\chi^2$/NDF:1004126.9/22

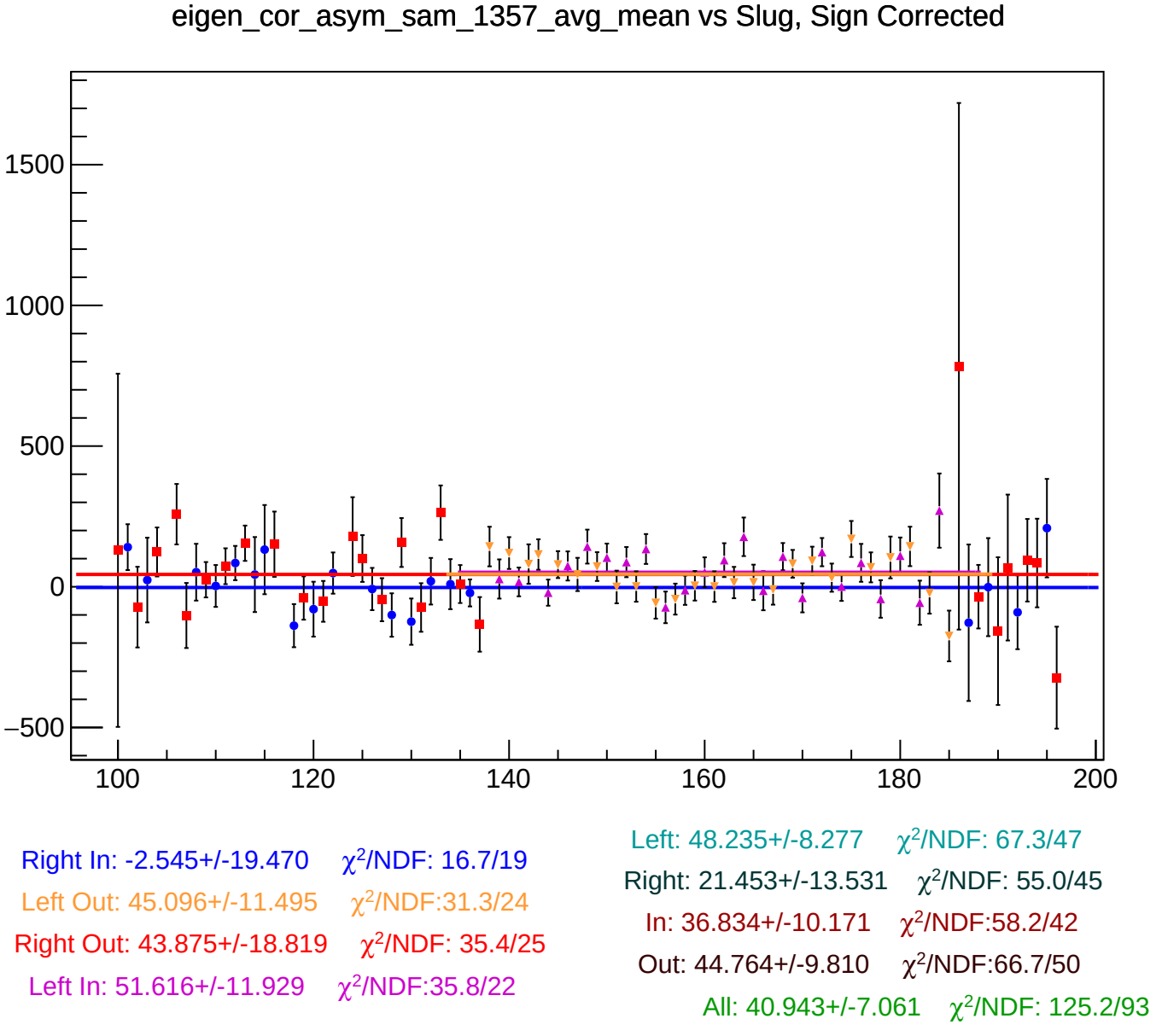
Left: 353.907+/-0.041 $\chi^2$/NDF: 2149948.5/47

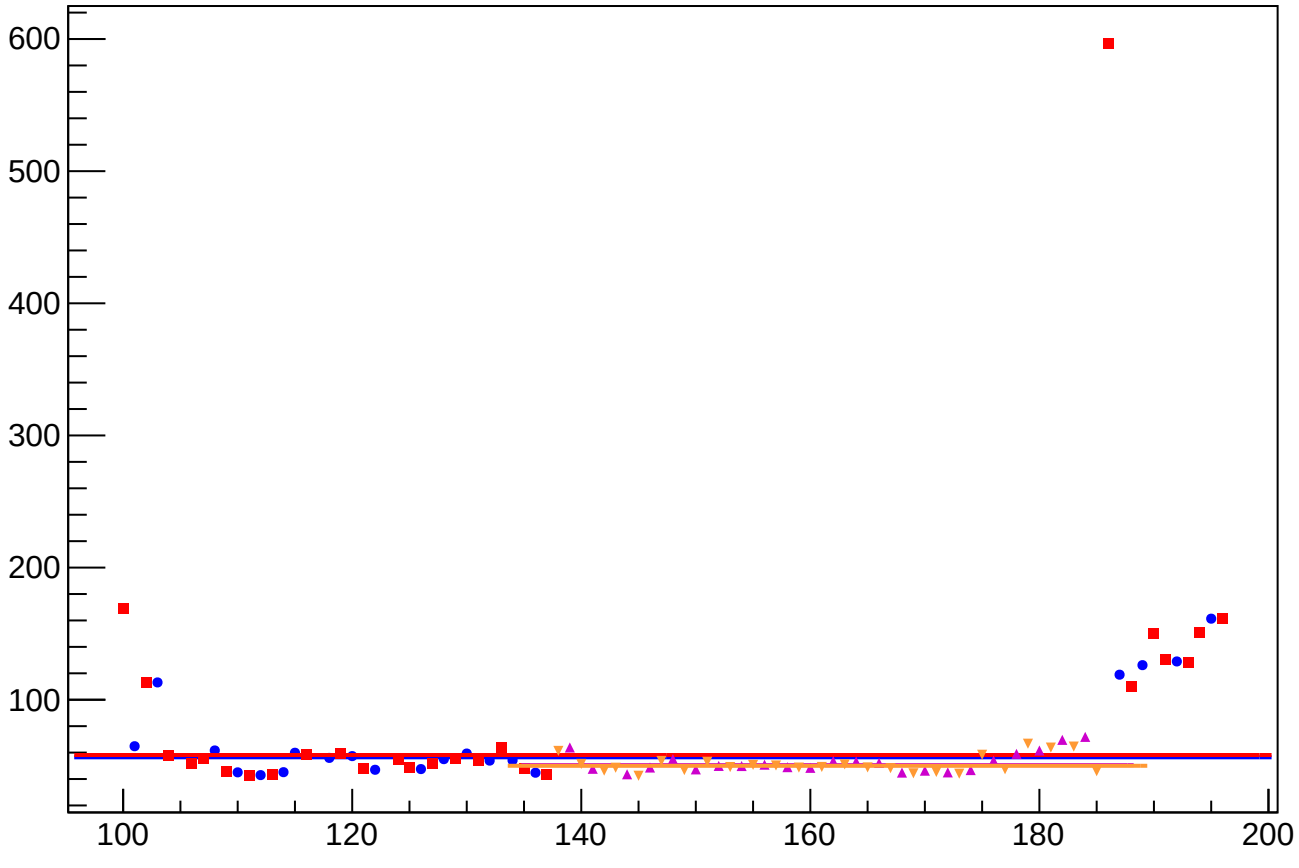
Right: 599.766+/-0.097 $\chi^2$/NDF: 5075632.6/45

In: 388.363+/-0.055 $\chi^2$/NDF:5262205.7/42

Out: 394.763+/-0.053 $\chi^2$/NDF:7347296.2/50

All: 391.637+/-0.038 $\chi^2$/NDF: 12616529.2/93


eigen_cor_asym_sam_1357_avg_mean vs Slug, Sign Corrected
1500
1000
500
0
−500
100
120
140
160
180
200
Right In: -2.545+/-19.470 χ²/NDF: 16.7/19
Left Out: 45.096+/-11.495 χ²/NDF:31.3/24
Right Out: 43.875+/-18.819 χ²/NDF: 35.4/25
Left In: 51.616+/-11.929 χ²/NDF:35.8/22
Left: 48.235+/-8.277 χ²/NDF: 67.3/47
Right: 21.453+/-13.531 χ²/NDF: 55.0/45
In: 36.834+/-10.171 χ²/NDF:58.2/42
Out: 44.764+/-9.810 χ²/NDF:66.7/50
All: 40.943+/-7.061 χ²/NDF: 125.2/93




Right In: 56.427+/-0.014 $\chi^2$/NDF: 2408076.5/19

Left Out: 50.021+/-0.008 $\chi^2$/NDF:509100.0/24

Right Out: 58.169+/-0.013 $\chi^2$/NDF: 4147299.6/25

Left In: 50.512+/-0.008 $\chi^2$/NDF:503409.2/22

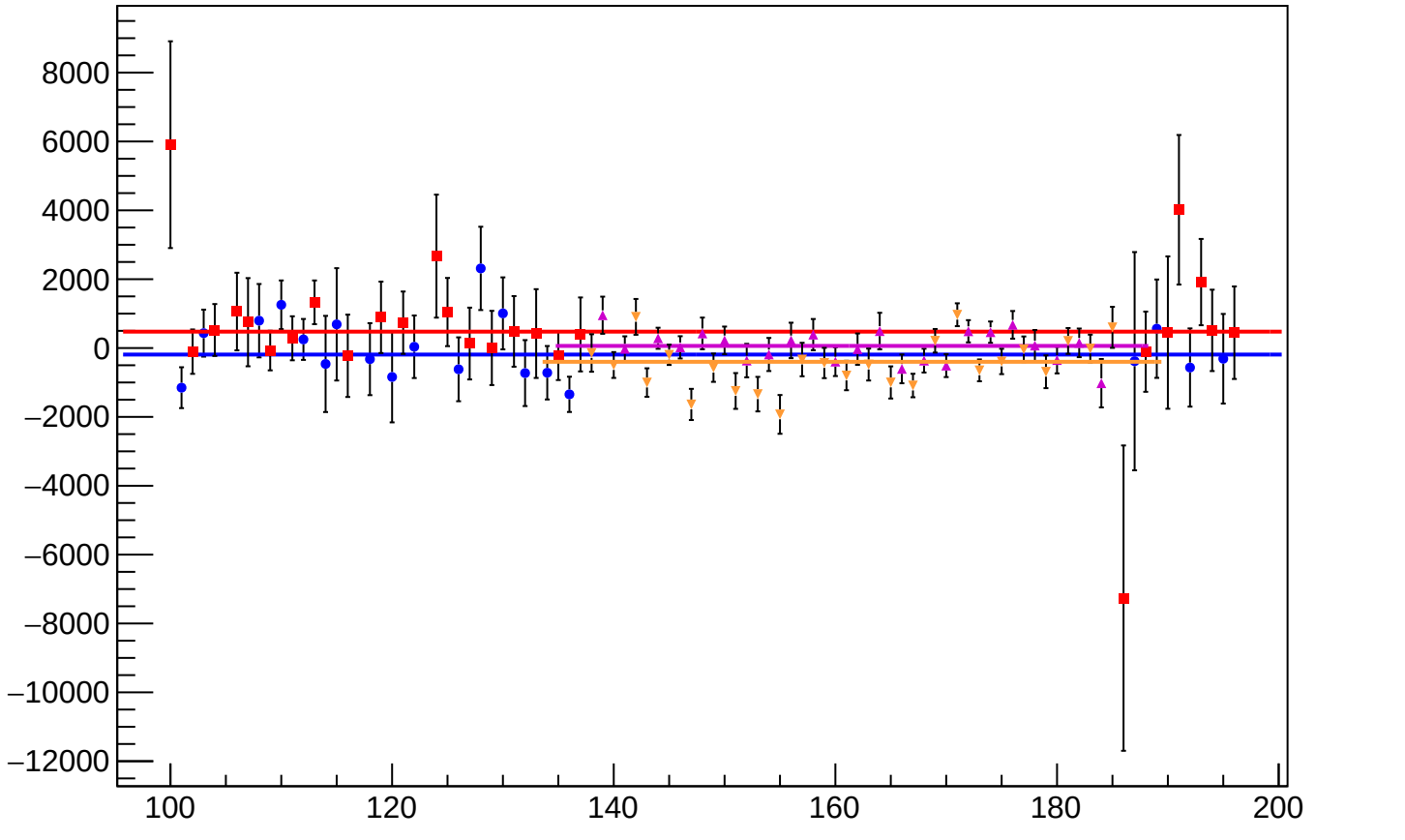
Left: 50.258+/-0.006 $\chi^2$/NDF: 1014266.6/47

Right: 57.327+/-0.010 $\chi^2$/NDF: 6563654.9/45

In: 52.126+/-0.007 $\chi^2$/NDF:3045682.4/42

Out: 52.235+/-0.007 $\chi^2$/NDF:4929430.0/50

All: 52.183+/-0.005 $\chi^2$/NDF: 7975230.2/93




Right In: -189.172+/-197.788 $\chi^2$/NDF: 21.8/19

Left Out: -399.358+/-82.064 $\chi^2$/NDF:65.4/24

Right Out: 476.454+/-192.044 $\chi^2$/NDF: 18.2/25

Left In: 62.038+/-83.892 $\chi^2$/NDF:23.9/22

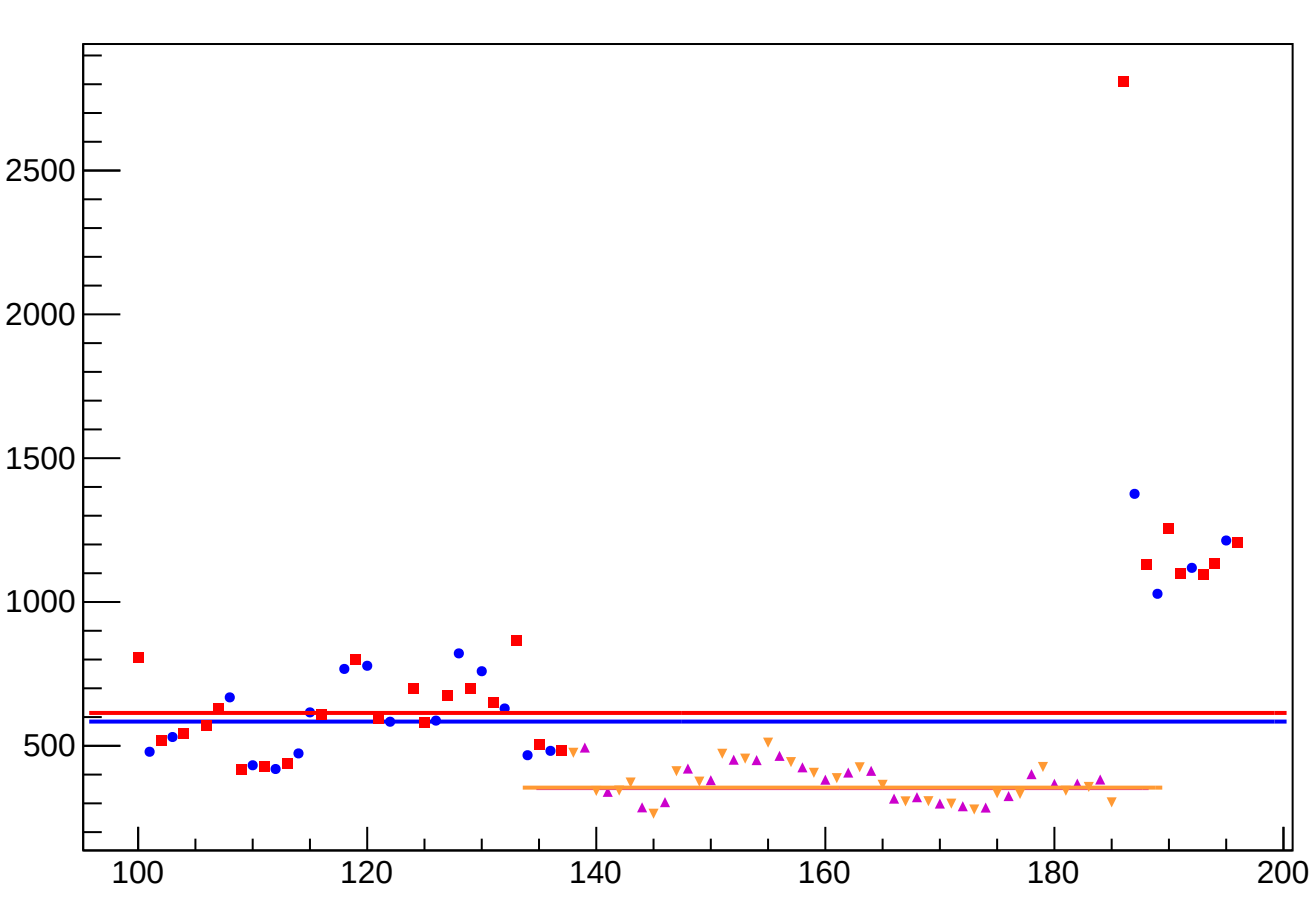
Left: -173.744+/-58.664 $\chi^2$/NDF: 104.8/47

Right: 153.445+/-137.782 $\chi^2$/NDF: 45.8/45

In: 23.734+/-77.232 $\chi^2$/NDF:47.0/42

Out: -264.129+/-75.463 $\chi^2$/NDF:101.2/50

All: -123.533+/-53.975 $\chi^2$/NDF: 155.3/93




Right In: 584.313+/-0.140 $\chi^2$/NDF: 1941904.0/19

Left Out: 354.670+/-0.058 $\chi^2$/NDF:1145468.3/24

Right Out: 614.334+/-0.136 $\chi^2$/NDF: 3110011.6/25

Left In: 353.110+/-0.059 $\chi^2$/NDF:1004126.9/22

Left: 353.907+/-0.041 $\chi^2$/NDF: 2149948.5/47

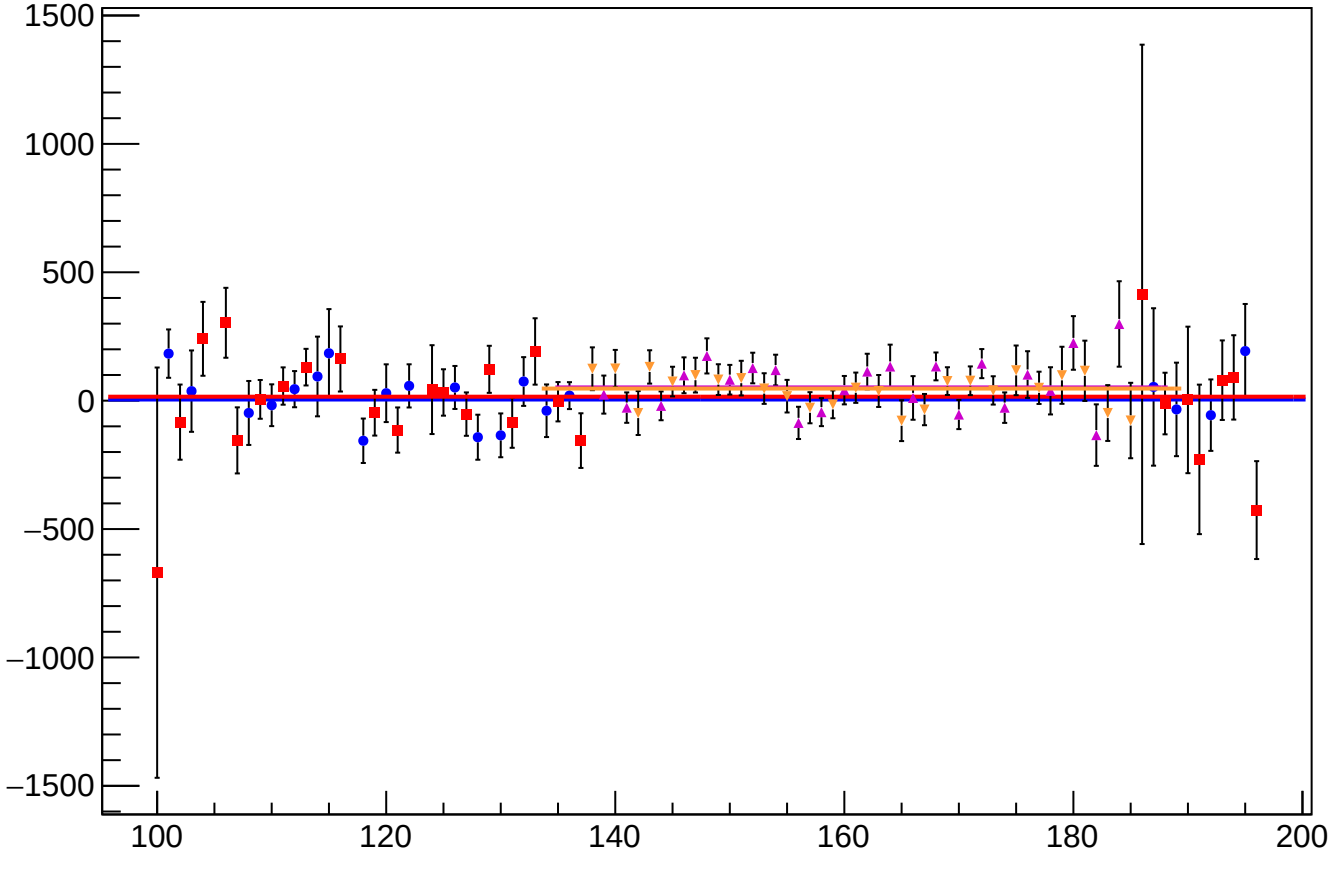
Right: 599.766+/-0.097 $\chi^2$/NDF: 5075632.6/45

In: 388.363+/-0.055 $\chi^2$/NDF:5262205.7/42

Out: 394.763+/-0.053 $\chi^2$/NDF:7347296.2/50

All: 391.637+/-0.038 $\chi^2$/NDF: 12616529.2/93

# dit_asym_sam_1357_avg_mean vs Slug, Sign Corrected




Right In: 4.517+/-21.816 $\chi^2$/NDF: 17.5/19

Left Out: 47.151+/-13.511 $\chi^2$/NDF:17.0/24

Right Out: 15.473+/-21.668 $\chi^2$/NDF: 31.2/25

Left In: 51.652+/-13.934 $\chi^2$/NDF:38.2/22

Left: 49.332+/-9.700 $\chi^2$/NDF: 55.2/47

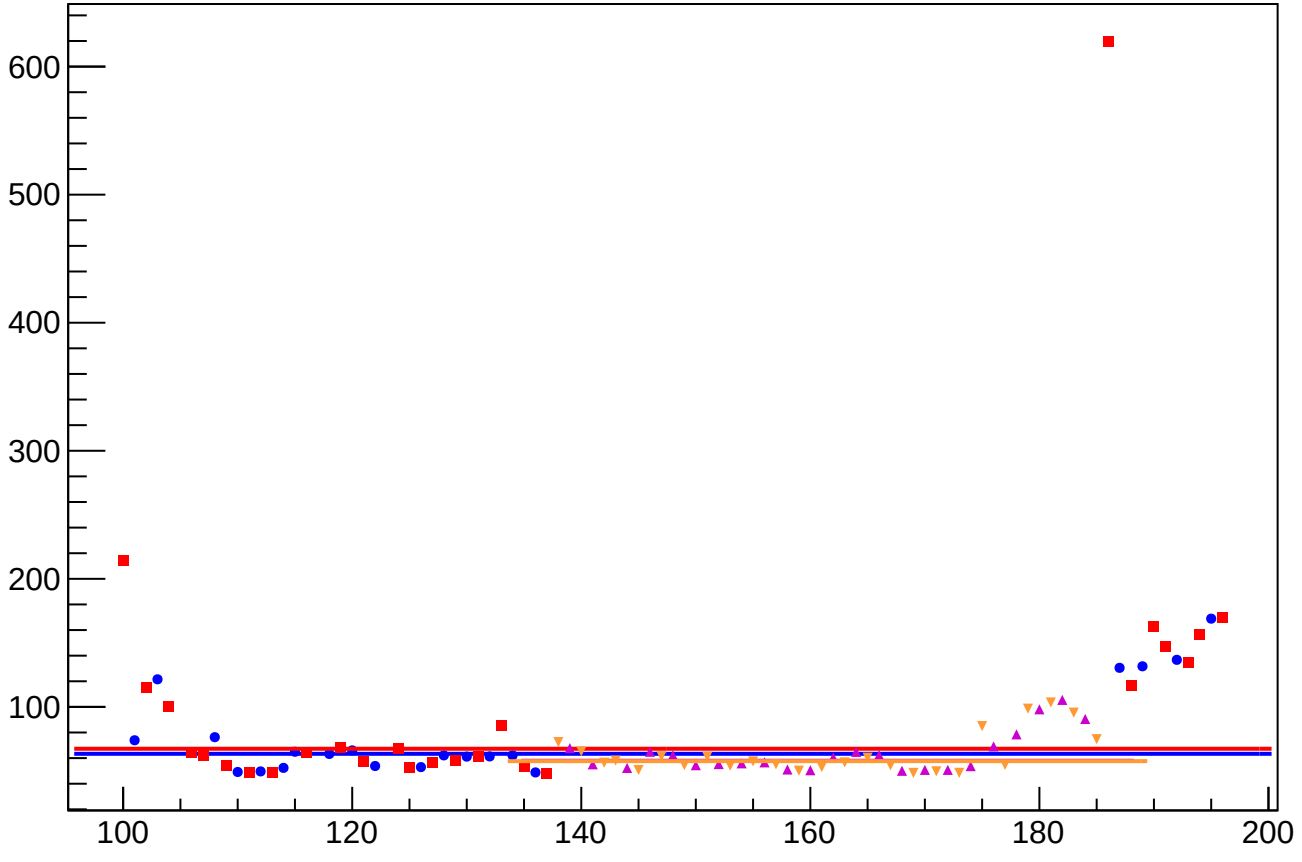
Right: 10.032+/-15.374 $\chi^2$/NDF: 48.7/45

In: 37.995+/-11.743 $\chi^2$/NDF:59.0/42

Out: 38.282+/-11.465 $\chi^2$/NDF:49.7/50

All: 38.142+/-8.203 $\chi^2$/NDF: 108.7/93

# dit_asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 63.369+/-0.015 $\chi^2$/NDF: 2274277.3/19

Left Out: 57.631+/-0.010 $\chi^2$/NDF:1365448.6/24

Right Out: 67.313+/-0.015 $\chi^2$/NDF: 3934936.7/25

Left In: 57.940+/-0.010 $\chi^2$/NDF:1124523.3/22

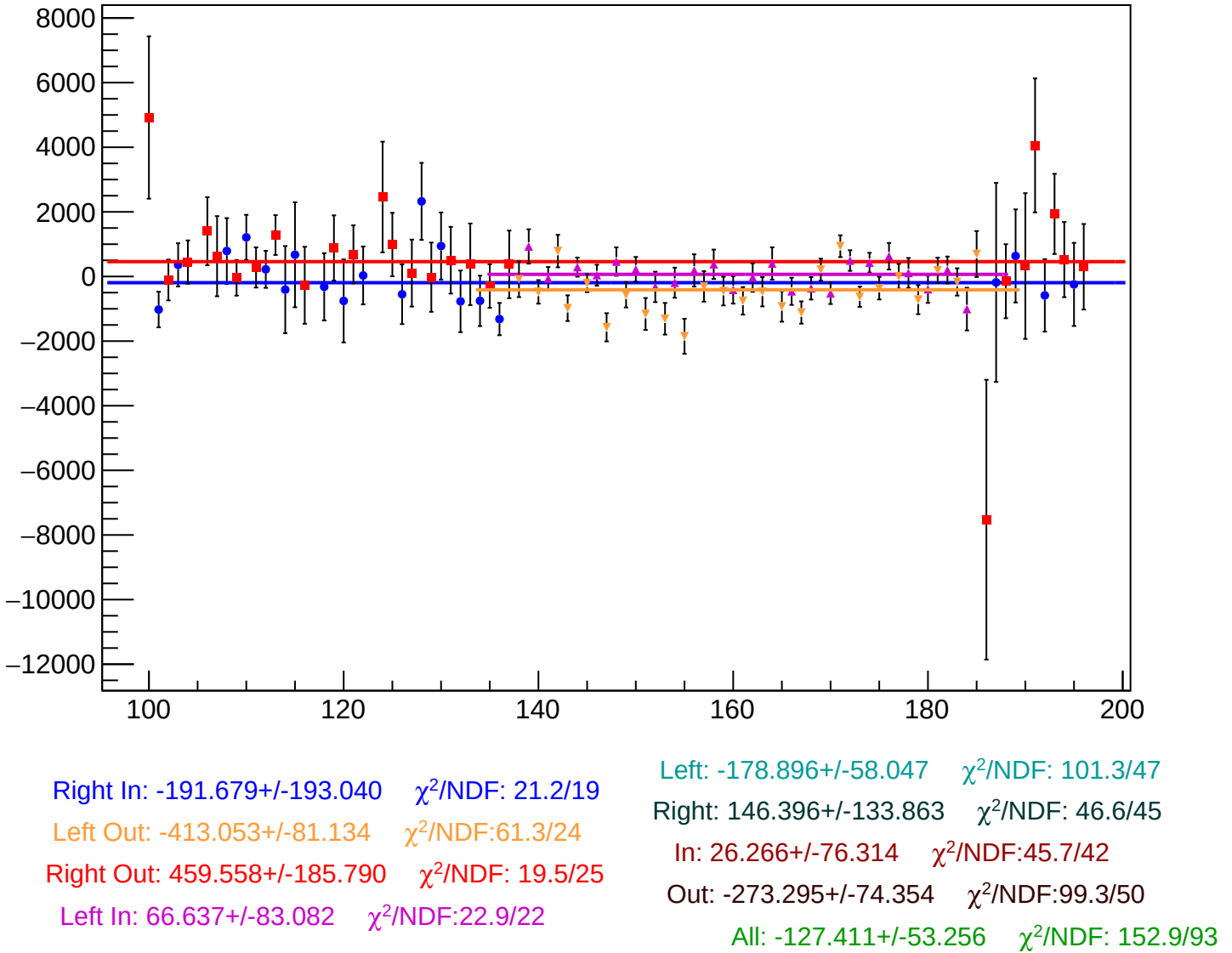
Left: 57.781+/-0.007 $\chi^2$/NDF: 2490479.3/47

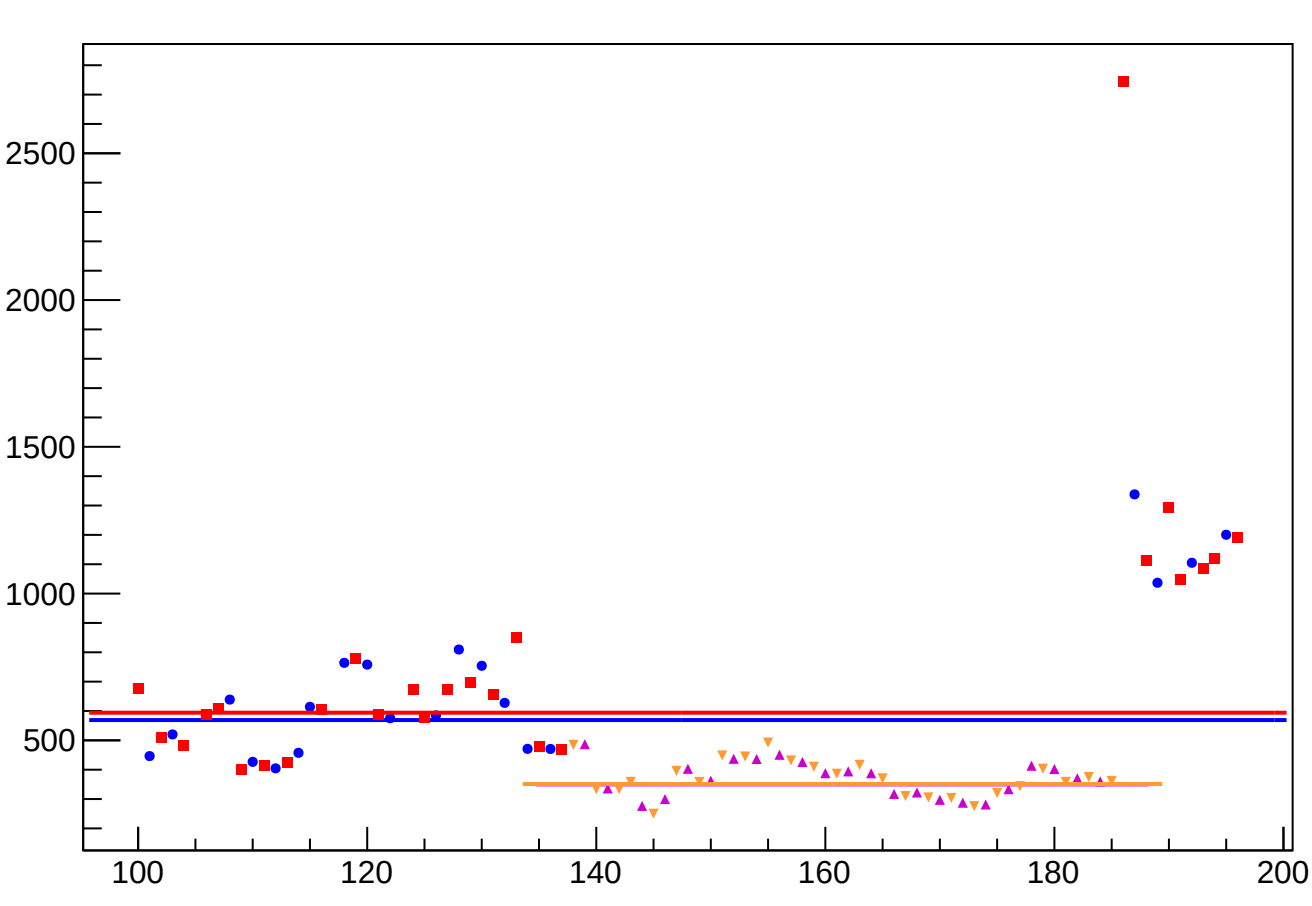
Right: 65.354+/-0.011 $\chi^2$/NDF: 6242104.4/45

In: 59.513+/-0.008 $\chi^2$/NDF:3486781.4/42

Out: 60.341+/-0.008 $\chi^2$/NDF:5587886.9/50

All: 59.937+/-0.006 $\chi^2$/NDF: 9079763.5/93


asym_sam_1357_avg_dit_correction_mean vs Slug, Sign Corrected
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
100
120
140
160
180
200
Right In: -191.679+/-193.040 χ²/NDF: 21.2/19
Left Out: -413.053+/-81.134 χ²/NDF:61.3/24
Right Out: 459.558+/-185.790 χ²/NDF: 19.5/25
Left In: 66.637+/-83.082 χ²/NDF:22.9/22
Left: -178.896+/-58.047 χ²/NDF: 101.3/47
Right: 146.396+/-133.863 χ²/NDF: 46.6/45
In: 26.266+/-76.314 χ²/NDF:45.7/42
Out: -273.295+/-74.354 χ²/NDF:99.3/50
All: -127.411+/-53.256 χ²/NDF: 152.9/93




Right In: 569.129+/-0.136 $\chi^2$/NDF: 2031221.3/19

Left Out: 351.264+/-0.057 $\chi^2$/NDF:1118247.7/24

Right Out: 594.197+/-0.131 $\chi^2$/NDF: 3256545.0/25

Left In: 349.813+/-0.059 $\chi^2$/NDF:990366.6/22

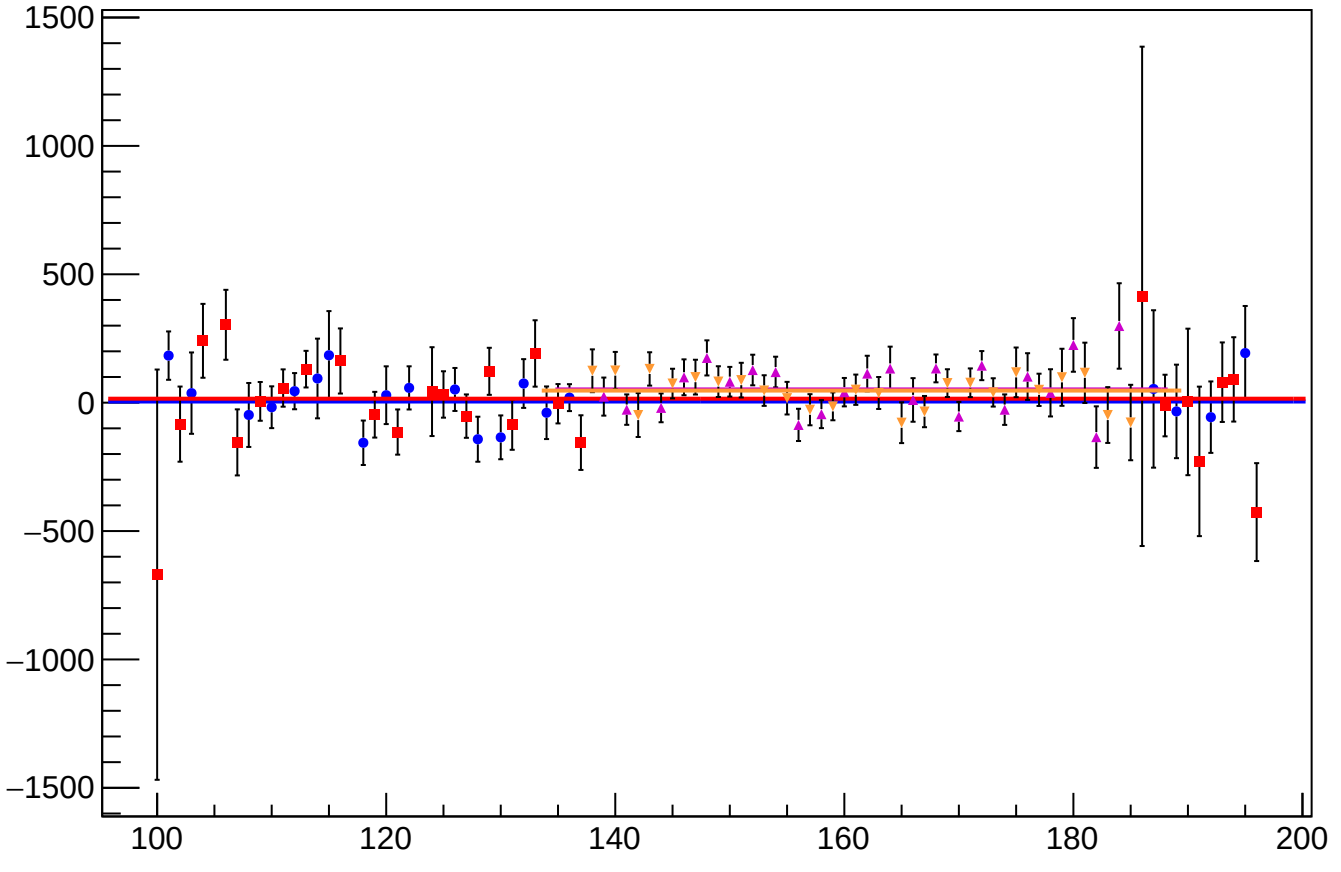
Left: 350.556+/-0.041 $\chi^2$/NDF: 2108926.7/47

Right: 582.142+/-0.095 $\chi^2$/NDF: 5305275.2/45

In: 384.089+/-0.054 $\chi^2$/NDF:5199666.6/42

Out: 390.173+/-0.053 $\chi^2$/NDF:7246572.8/50

All: 387.210+/-0.038 $\chi^2$/NDF: 12452760.8/93




Right In: 4.516+/-21.816 $\chi^2$/NDF: 17.5/19

Left Out: 47.151+/-13.511 $\chi^2$/NDF:17.0/24

Right Out: 15.472+/-21.668 $\chi^2$/NDF: 31.2/25

Left In: 51.651+/-13.934 $\chi^2$/NDF:38.2/22

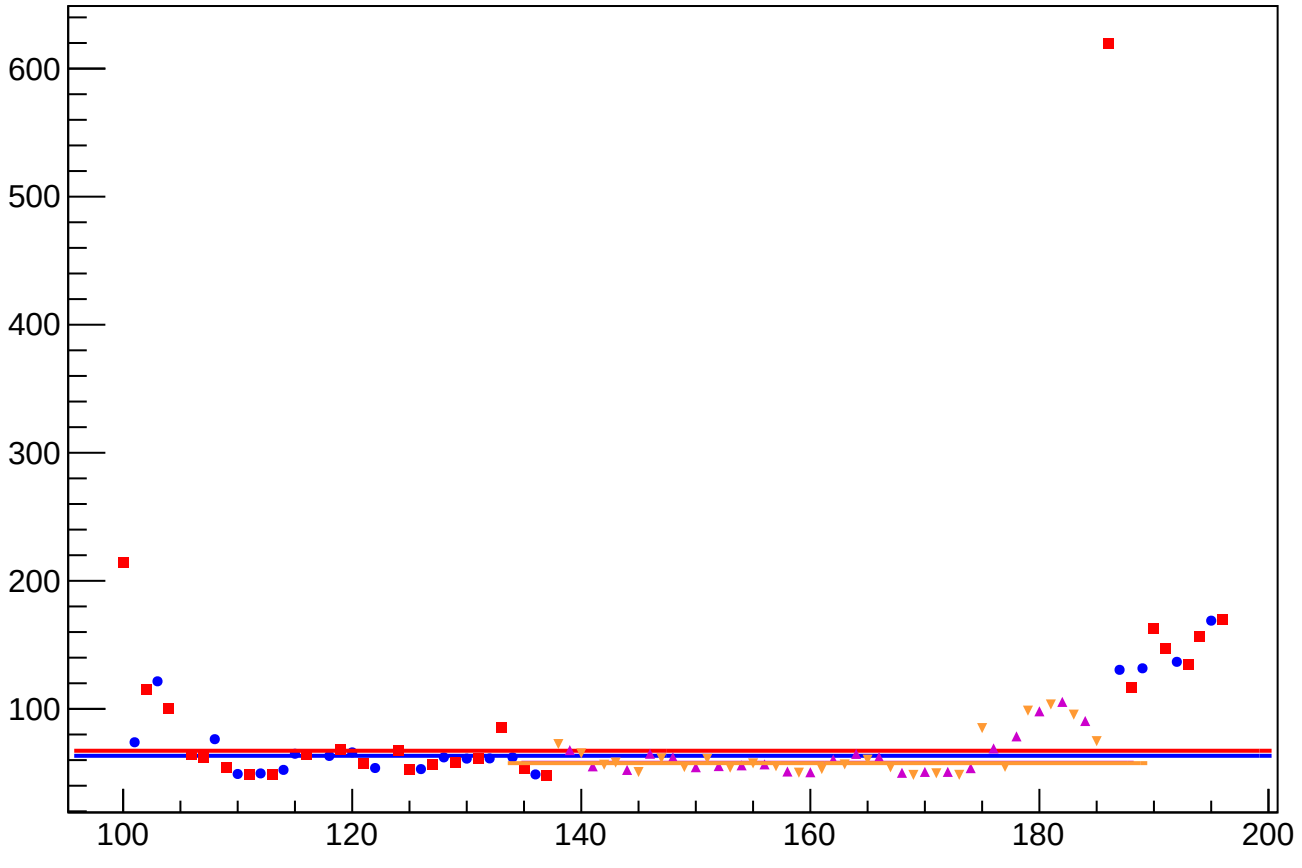
Left: 49.332+/-9.700 $\chi^2$/NDF: 55.2/47

Right: 10.032+/-15.374 $\chi^2$/NDF: 48.7/45

In: 37.995+/-11.743 $\chi^2$/NDF:59.0/42

Out: 38.282+/-11.465 $\chi^2$/NDF:49.7/50

All: 38.142+/-8.203 $\chi^2$/NDF: 108.7/93




Right In: 63.370+/-0.015 $\chi^2$/NDF: 2274270.6/19

Left Out: 57.631+/-0.010 $\chi^2$/NDF:1365443.1/24

Right Out: 67.313+/-0.015 $\chi^2$/NDF: 3934931.4/25

Left In: 57.940+/-0.010 $\chi^2$/NDF:1124509.8/22

Left: 57.781+/-0.007 $\chi^2$/NDF: 2490460.5/47

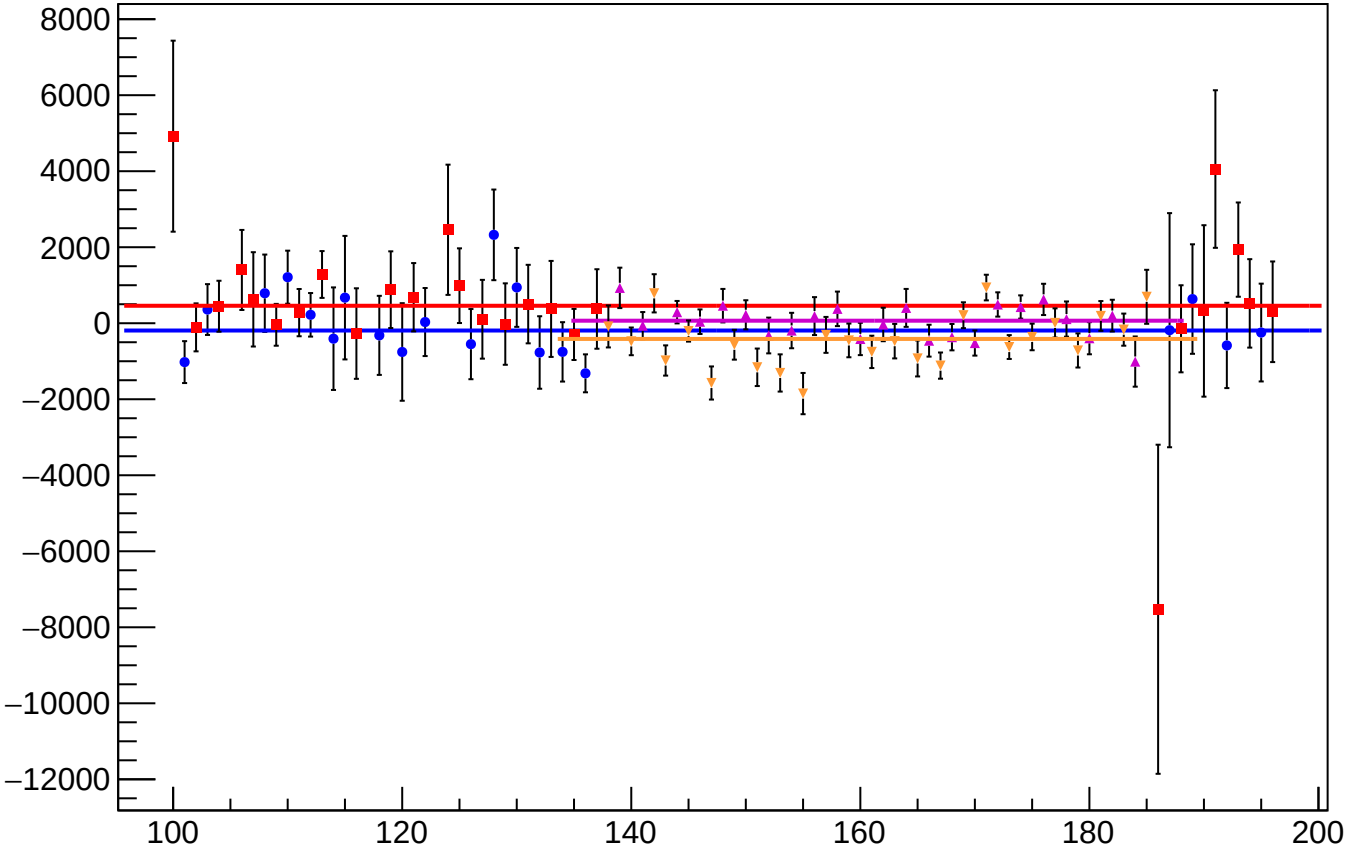
Right: 65.355+/-0.011 $\chi^2$/NDF: 6242093.0/45

In: 59.513+/-0.008 $\chi^2$/NDF:3486760.5/42

Out: 60.342+/-0.008 $\chi^2$/NDF:5587878.2/50

All: 59.937+/-0.006 $\chi^2$/NDF: 9079733.7/93

asym_sam_1357_avg_eigen_dit_correction_mean vs Slug, Sign Corrected




Right In: -191.678+/-193.039 $\chi^2$/NDF: 21.2/19

Left Out: -413.053+/-81.134 $\chi^2$/NDF:61.3/24

Right Out: 459.557+/-185.790 $\chi^2$/NDF: 19.5/25

Left In: 66.637+/-83.082 $\chi^2$/NDF:22.9/22

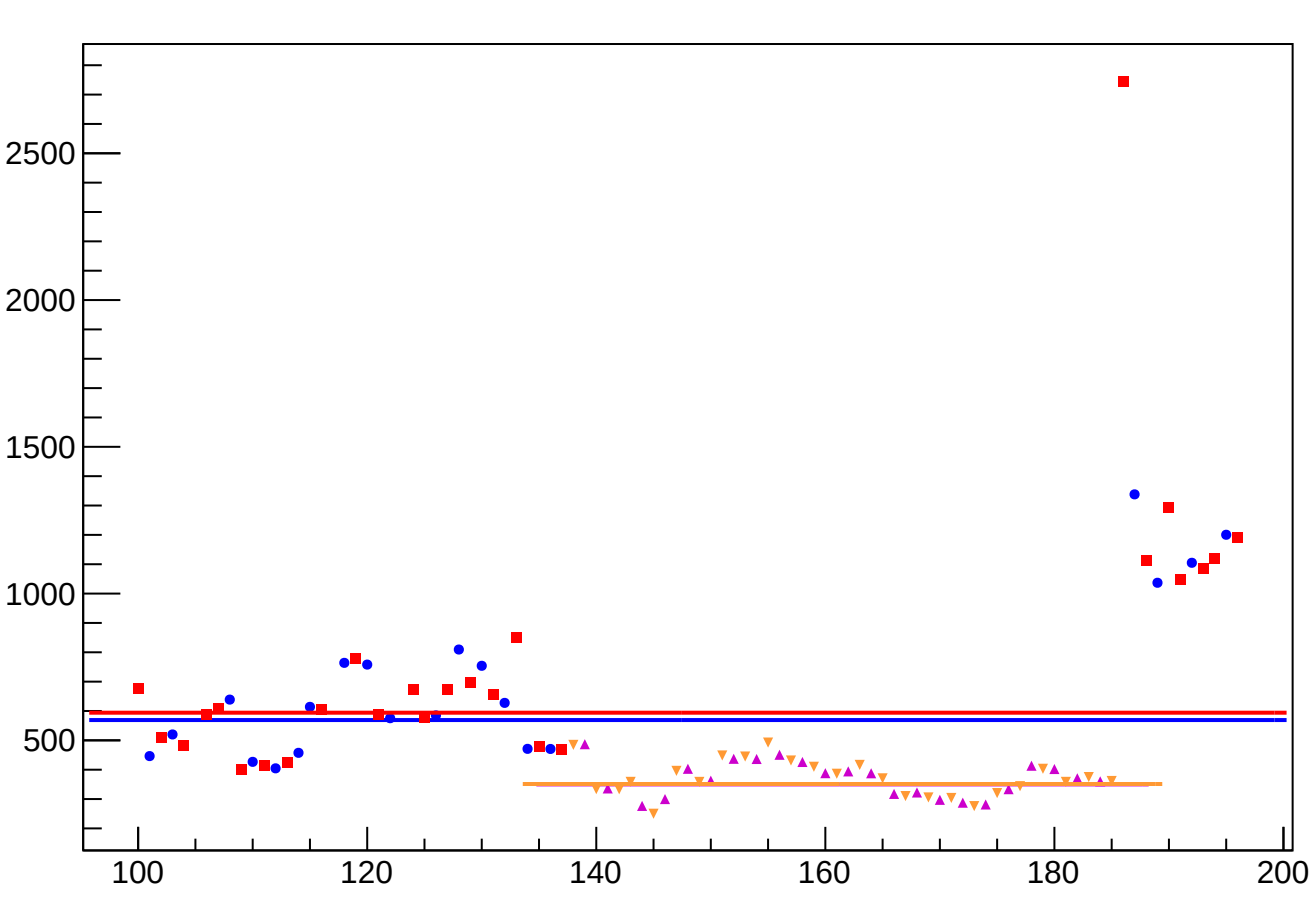
Left: -178.896+/-58.047 $\chi^2$/NDF: 101.3/47

Right: 146.396+/-133.863 $\chi^2$/NDF: 46.6/45

In: 26.266+/-76.314 $\chi^2$/NDF:45.7/42

Out: -273.294+/-74.354 $\chi^2$/NDF:99.3/50

All: -127.411+/-53.255 $\chi^2$/NDF: 152.9/93




Right In: 569.128+/-0.136 $\chi^2$/NDF: 2031227.6/19

Left Out: 351.264+/-0.057 $\chi^2$/NDF:1118243.1/24

Right Out: 594.196+/-0.131 $\chi^2$/NDF: 3256548.2/25

Left In: 349.813+/-0.059 $\chi^2$/NDF:990359.9/22

Left: 350.555+/-0.041 $\chi^2$/NDF: 2108915.4/47

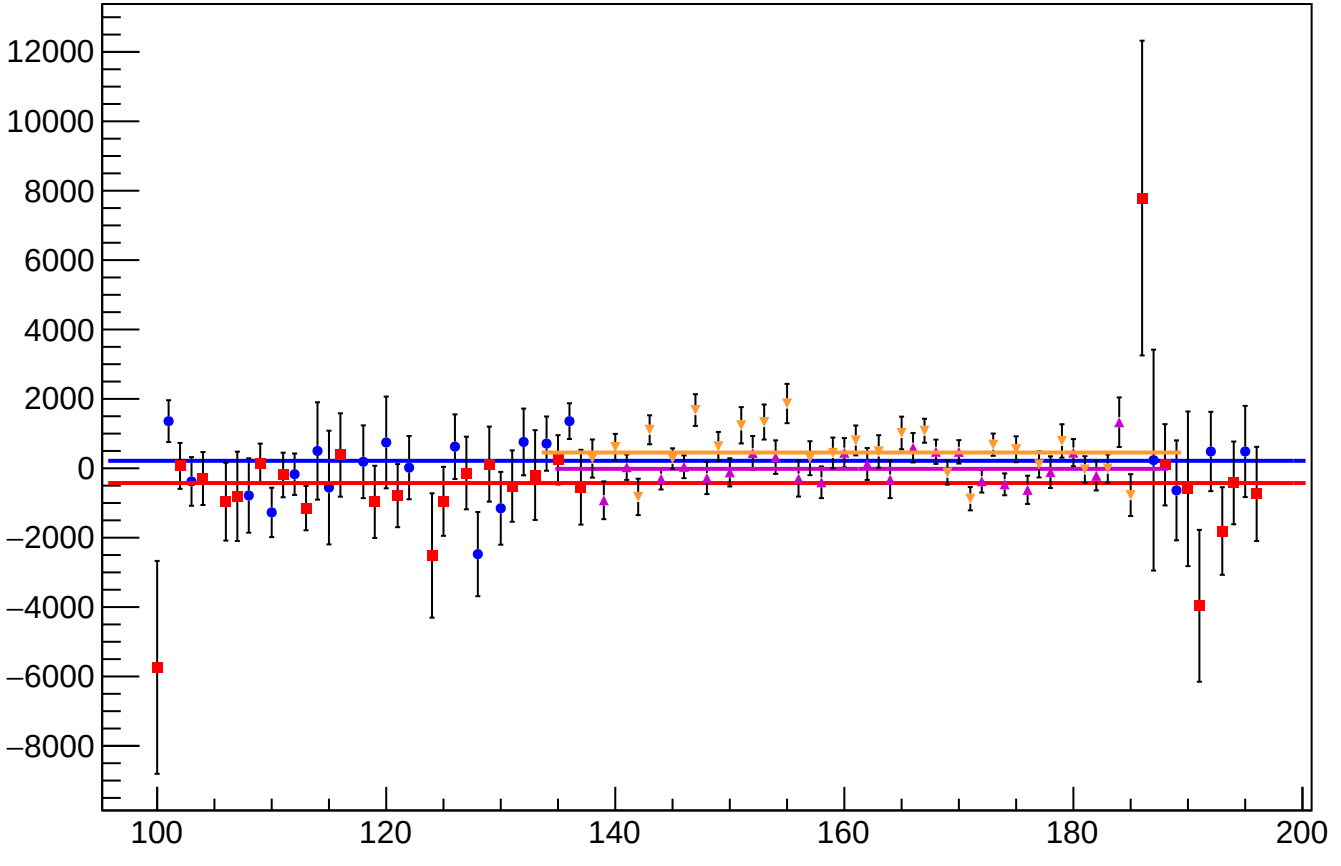
Right: 582.141+/-0.095 $\chi^2$/NDF: 5305284.8/45

In: 384.088+/-0.054 $\chi^2$/NDF:5199654.3/42

Out: 390.172+/-0.053 $\chi^2$/NDF:7246561.4/50

All: 387.209+/-0.038 $\chi^2$/NDF: 12452736.8/93

# asym_sam_1357_avg_mean vs Slug, Sign Corrected




Right In: 215.698+/-199.396 $\chi^2$/NDF: 23.3/19

Left Out: 455.234+/-82.961 $\chi^2$/NDF:60.8/24

Right Out: -425.143+/-193.447 $\chi^2$/NDF: 17.4/25

Left In: -16.073+/-84.830 $\chi^2$/NDF:24.9/22

Left: 224.832+/-59.312 $\chi^2$/NDF: 101.5/47

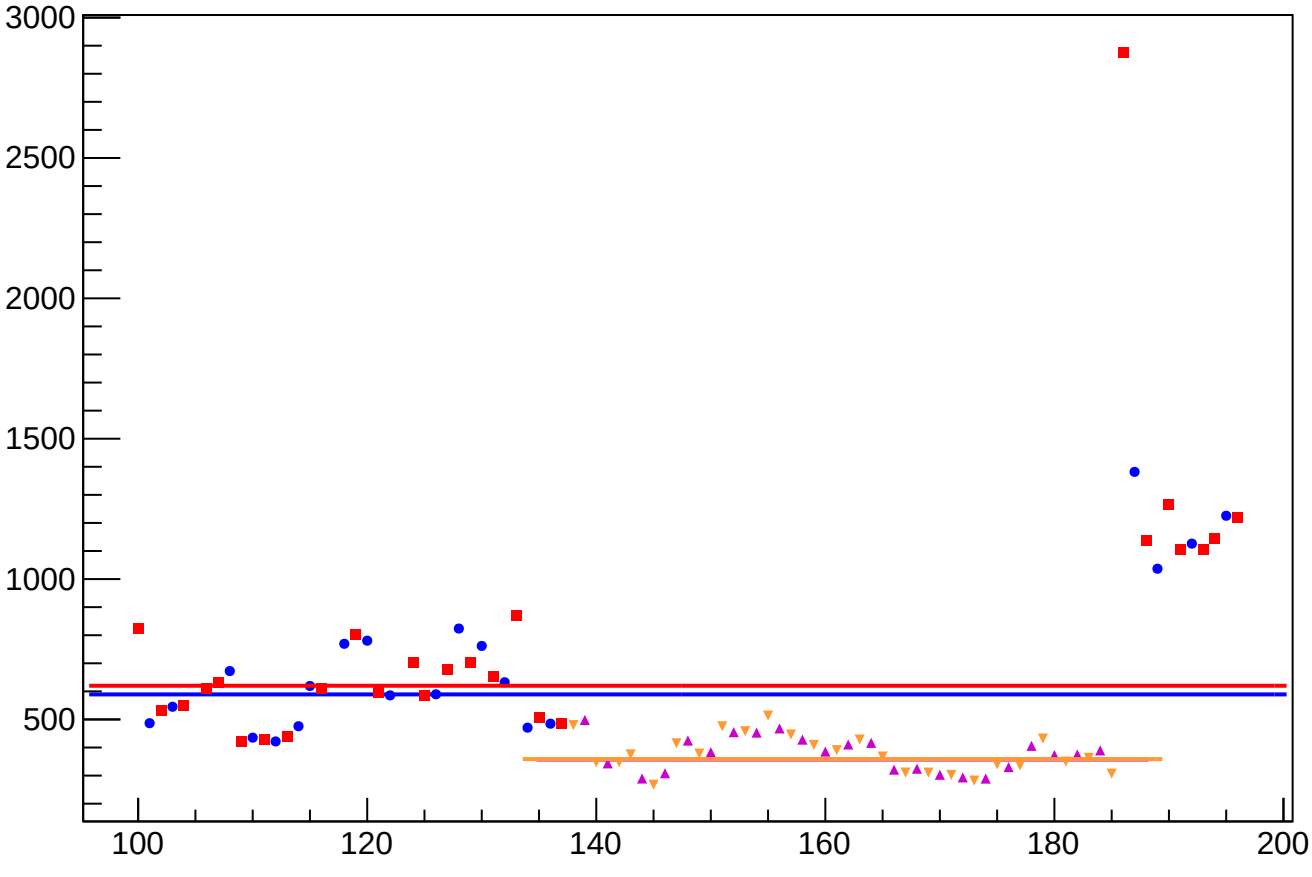
Right: -114.425+/-138.843 $\chi^2$/NDF: 46.0/45

In: 19.448+/-78.060 $\chi^2$/NDF:49.3/42

Out: 318.472+/-76.245 $\chi^2$/NDF:95.7/50

All: 172.476+/-54.544 $\chi^2$/NDF: 152.6/93

# asym_sam_1357_avg_rms vs Slug, Sign Corrected




Right In: 589.201+/-0.141 $\chi^2$/NDF: 1931791.1/19

Left Out: 358.677+/-0.059 $\chi^2$/NDF:1119535.1/24

Right Out: 620.087+/-0.137 $\chi^2$/NDF: 3105665.8/25

Left In: 357.182+/-0.060 $\chi^2$/NDF:981641.8/22

Left: 357.946+/-0.042 $\chi^2$/NDF: 2101494.2/47

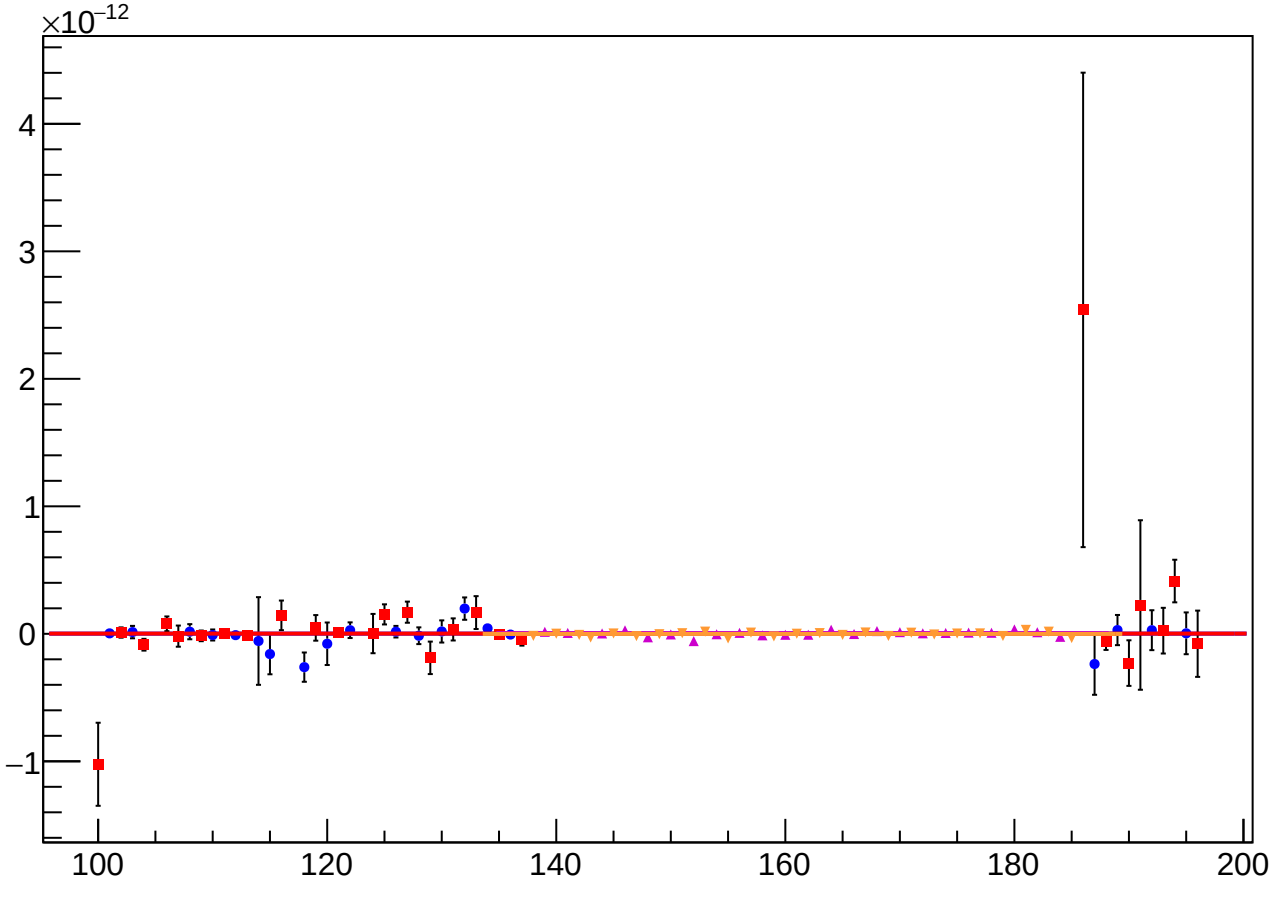
Right: 605.111+/-0.098 $\chi^2$/NDF: 5062176.1/45

In: 392.741+/-0.055 $\chi^2$/NDF:5206378.7/42

Out: 399.286+/-0.054 $\chi^2$/NDF:7310016.1/50

All: 396.090+/-0.039 $\chi^2$/NDF: 12523589.8/93

asym_sam_1357_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 14.7/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:18.2/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 40.8/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:28.5/22

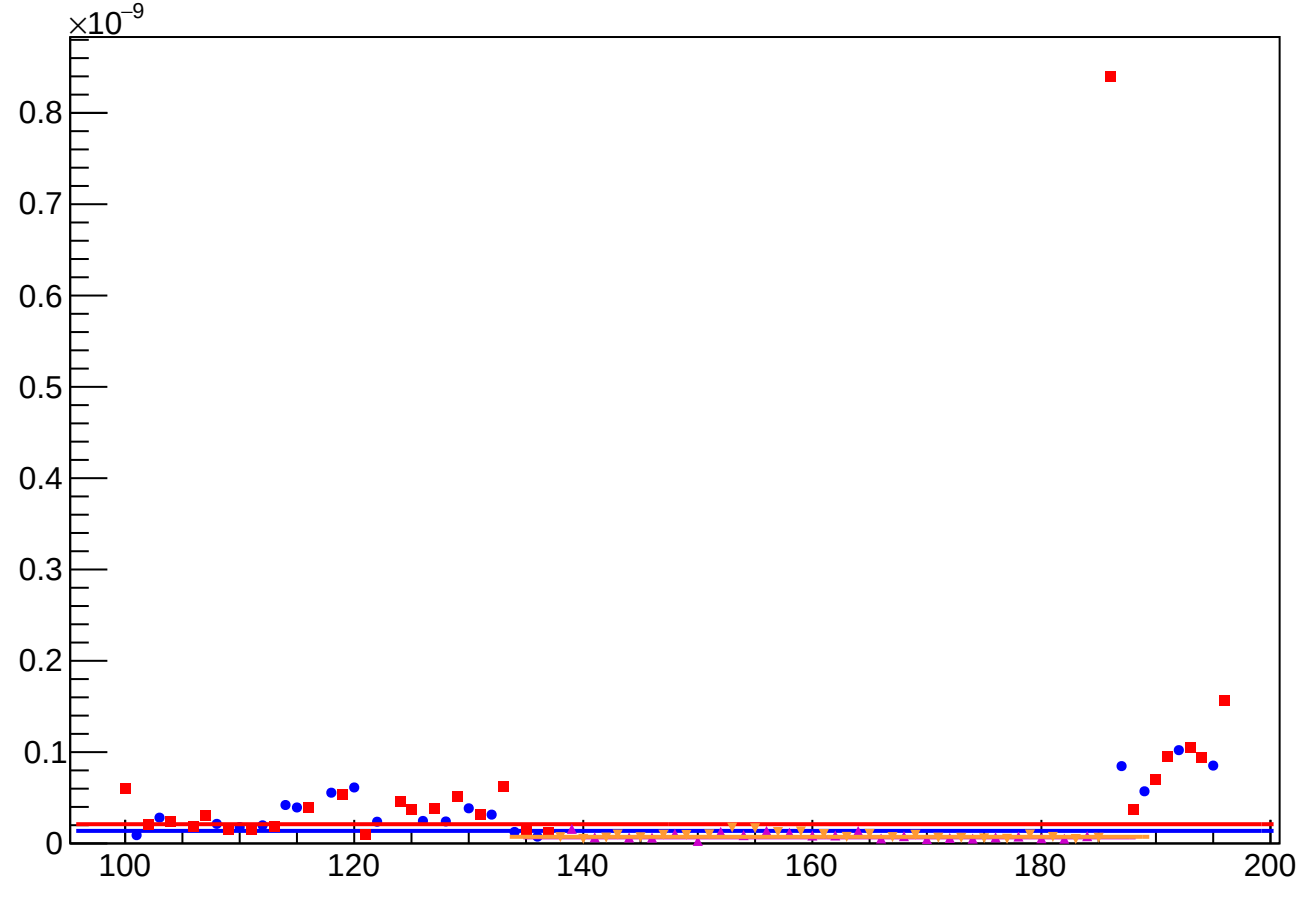
Left: 0.000+/-0.000 $\chi^2$/NDF: 49.2/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 55.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:43.4/42

Out: -0.000+/-0.000 $\chi^2$/NDF:59.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 104.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3235025.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1438289.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3453510.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1746143.3/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3229339.0/47

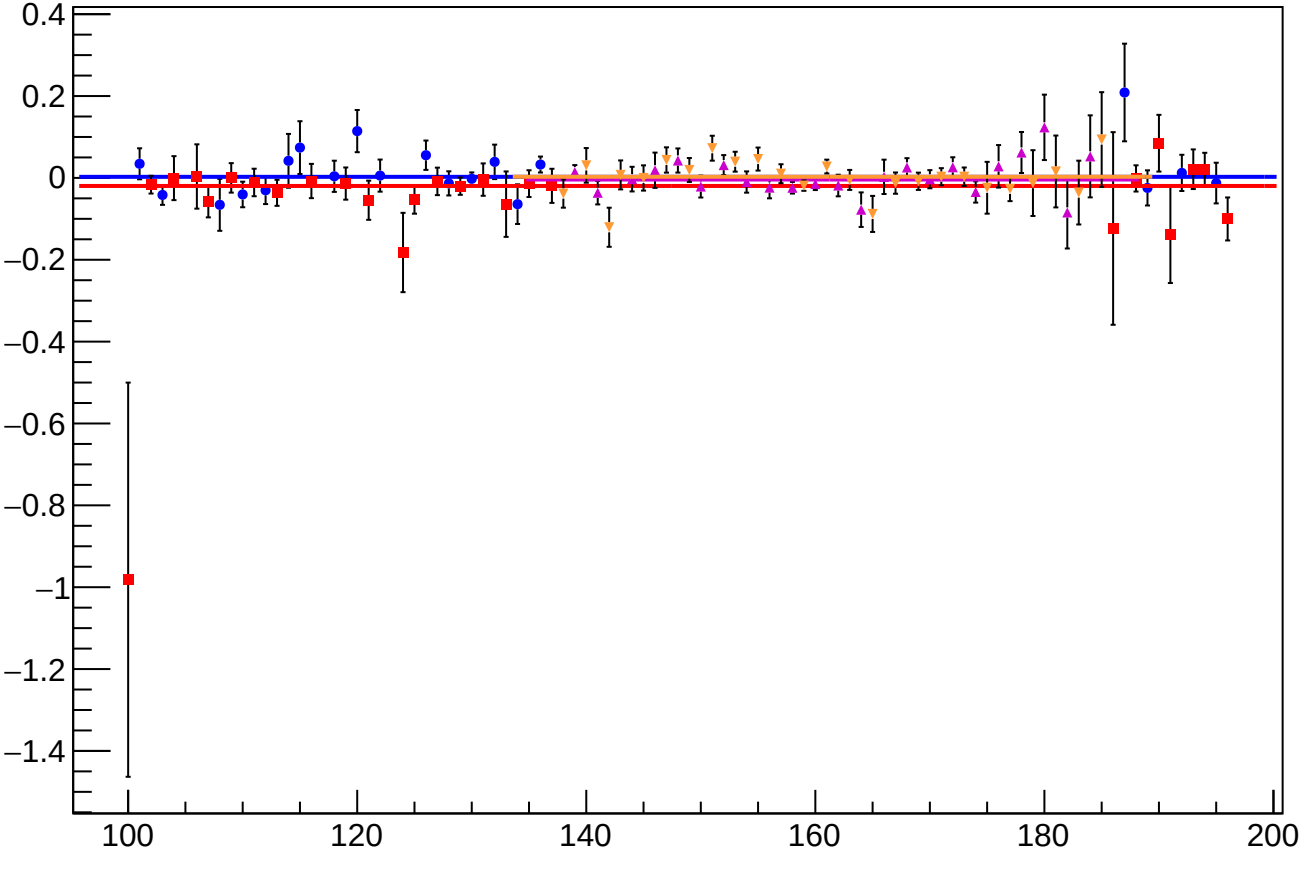
Right: 0.000+/-0.000 $\chi^2$/NDF: 7173943.4/45

In: 0.000+/-0.000 $\chi^2$/NDF:6111981.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:7469310.1/50

All: 0.000+/-0.000 $\chi^2$/NDF: 13650851.2/93

asym_sam_1357_avg_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.007 $\chi^2$/NDF: 25.5/19

Left Out: 0.003+/-0.005 $\chi^2$/NDF:32.8/24

Right Out: -0.020+/-0.008 $\chi^2$/NDF: 18.6/25

Left In: -0.004+/-0.005 $\chi^2$/NDF:24.6/22

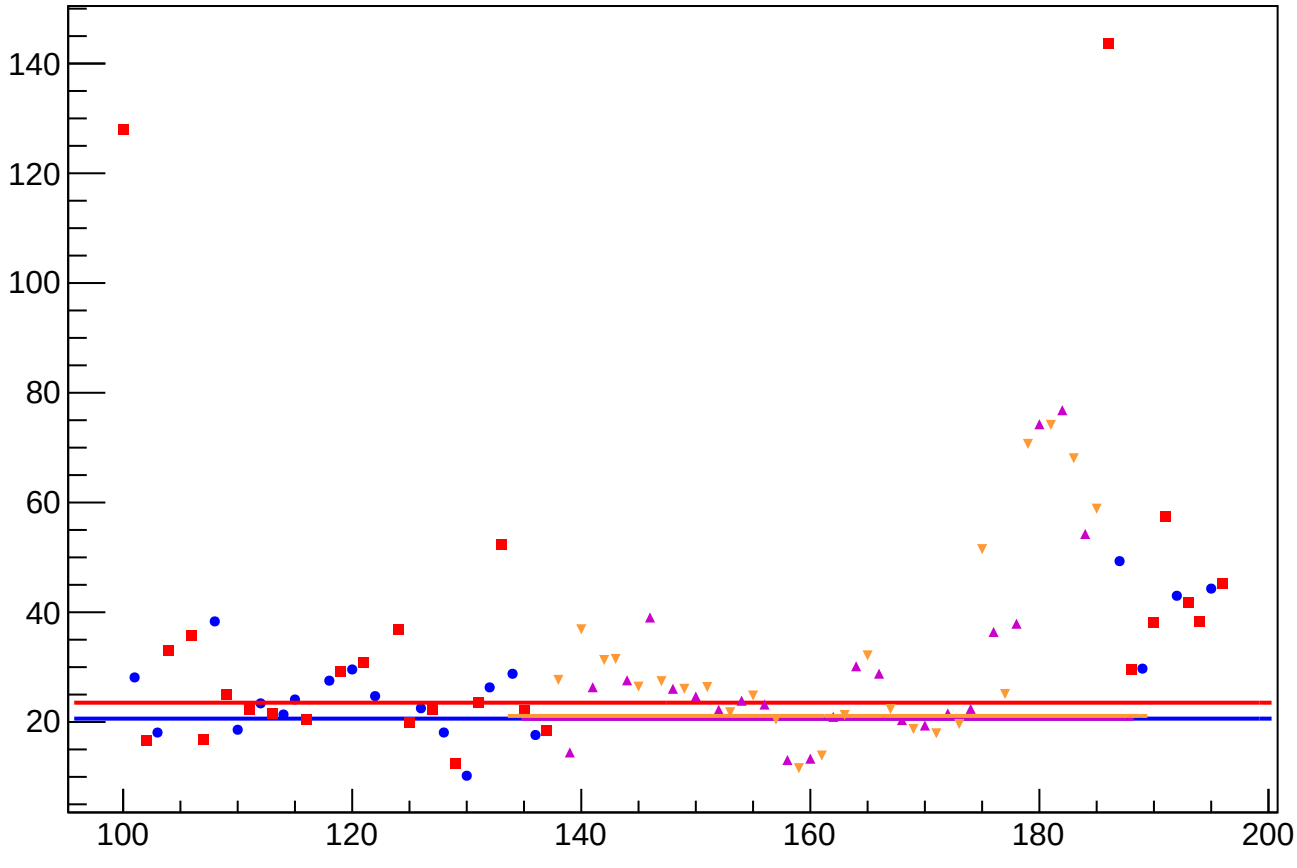
Left: -0.001+/-0.004 $\chi^2$/NDF: 58.2/47

Right: -0.008+/-0.005 $\chi^2$/NDF: 48.4/45

In: -0.002+/-0.004 $\chi^2$/NDF:50.6/42

Out: -0.005+/-0.004 $\chi^2$/NDF:57.1/50

All: -0.003+/-0.003 $\chi^2$/NDF: 107.9/93




Right In: 20.616+/-0.005 $\chi^2$/NDF: 2658579.0/19

Left Out: 21.109+/-0.004 $\chi^2$/NDF:5546528.5/24

Right Out: 23.522+/-0.005 $\chi^2$/NDF: 3222387.4/25

Left In: 20.591+/-0.004 $\chi^2$/NDF:4599493.5/22

Left: 20.849+/-0.003 $\chi^2$/NDF: 10155046.5/47

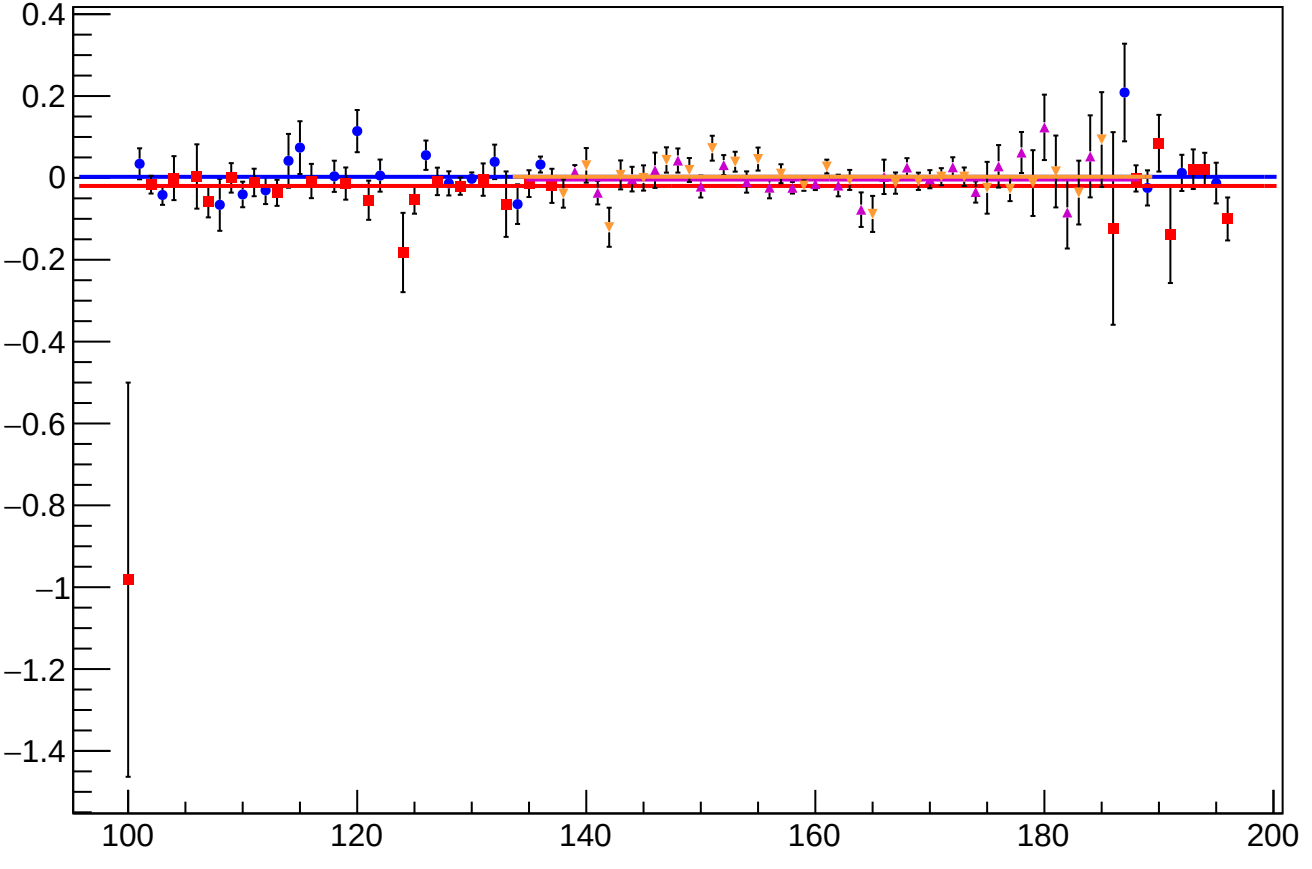
Right: 22.014+/-0.004 $\chi^2$/NDF: 6026771.2/45

In: 20.600+/-0.003 $\chi^2$/NDF:7258087.0/42

Out: 21.907+/-0.003 $\chi^2$/NDF:8898609.1/50

All: 21.244+/-0.002 $\chi^2$/NDF: 16243924.9/93

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.007 $\chi^2$/NDF: 25.5/19

Left Out: 0.003+/-0.005 $\chi^2$/NDF:32.8/24

Right Out: -0.020+/-0.008 $\chi^2$/NDF: 18.6/25

Left In: -0.004+/-0.005 $\chi^2$/NDF:24.6/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 58.2/47

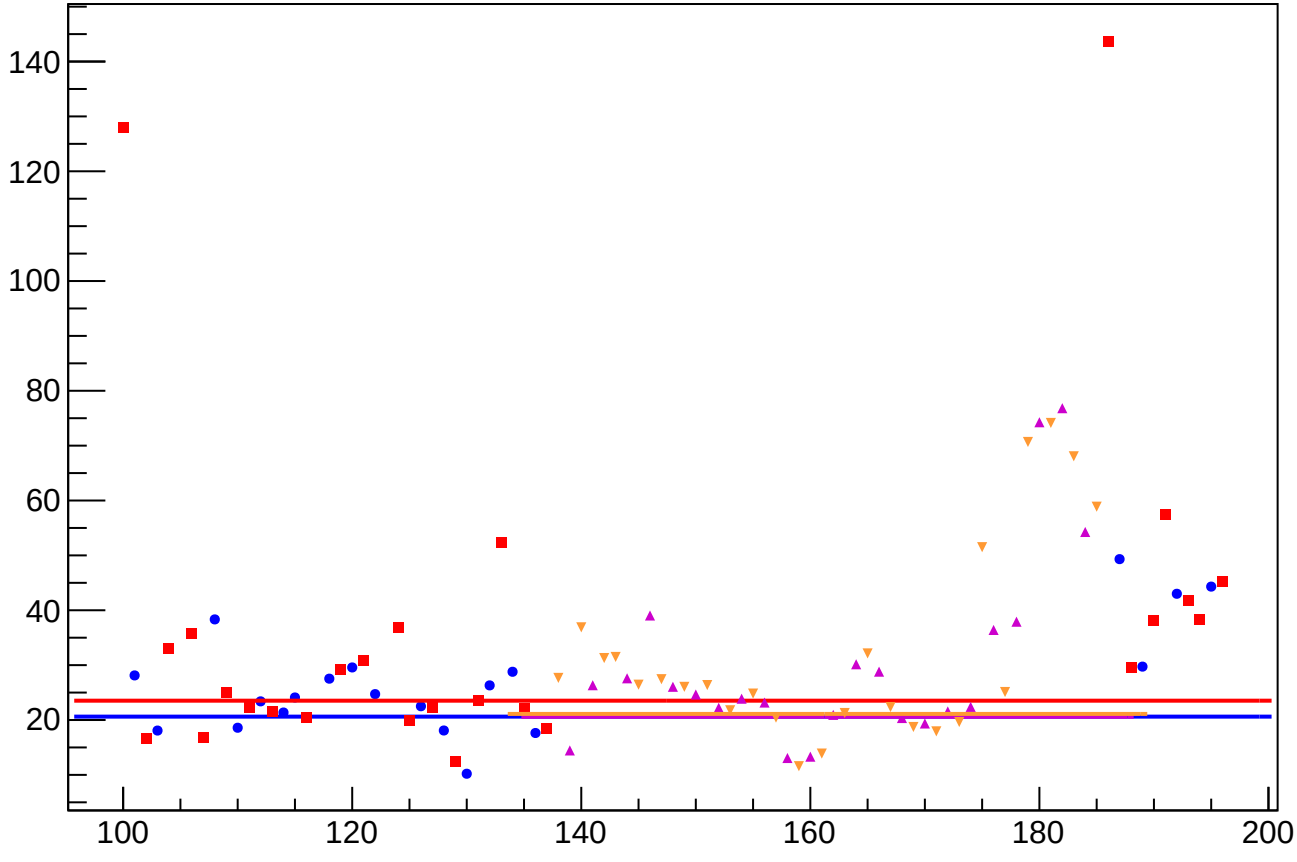
Right: -0.008+/-0.005 $\chi^2$/NDF: 48.4/45

In: -0.002+/-0.004 $\chi^2$/NDF:50.6/42

Out: -0.005+/-0.004 $\chi^2$/NDF:57.1/50

All: -0.003+/-0.003 $\chi^2$/NDF: 107.9/93

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.616+/-0.005 $\chi^2$/NDF: 2658579.0/19

Left Out: 21.109+/-0.004 $\chi^2$/NDF:5546528.5/24

Right Out: 23.522+/-0.005 $\chi^2$/NDF: 3222387.4/25

Left In: 20.591+/-0.004 $\chi^2$/NDF:4599493.5/22

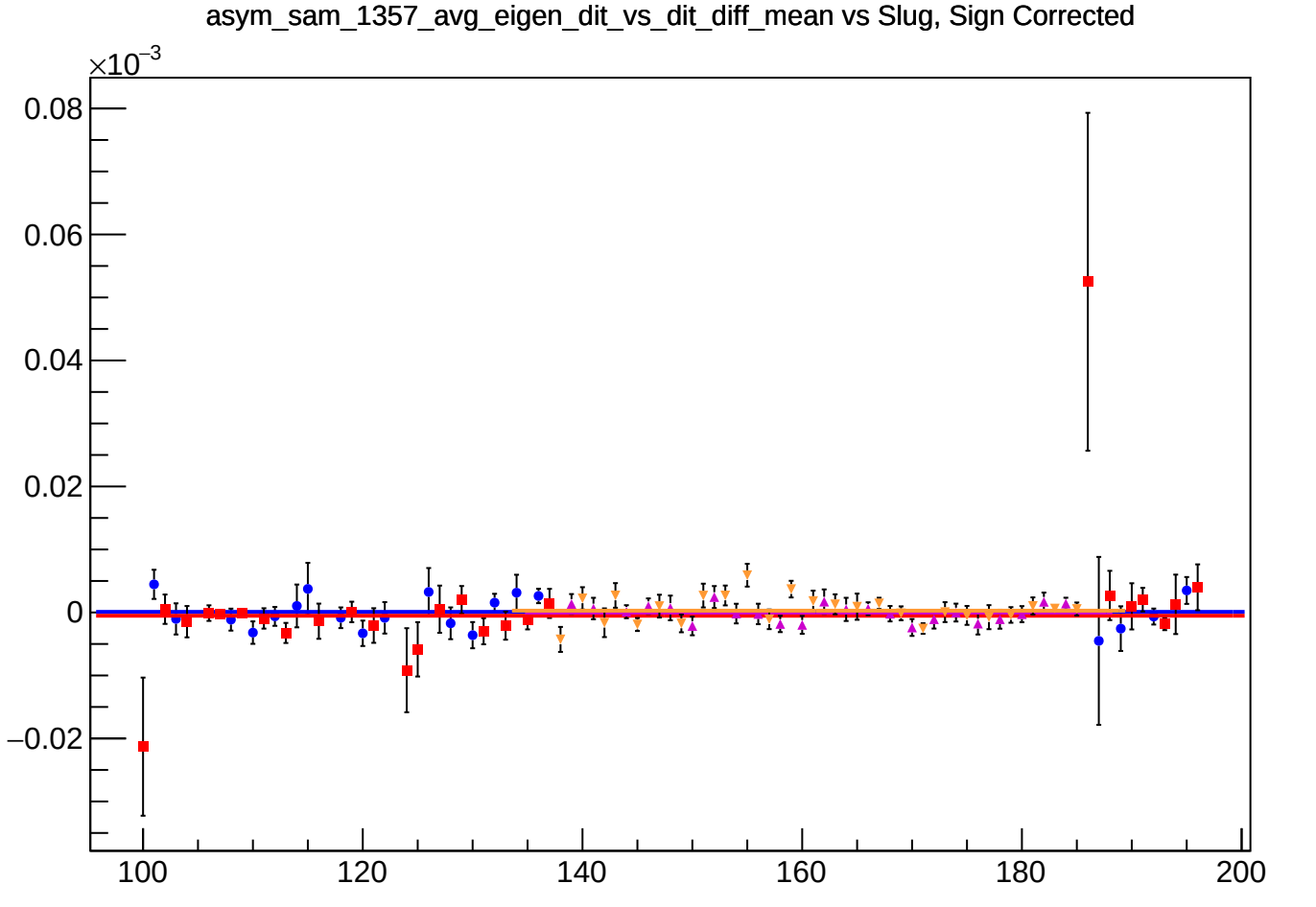
Left: 20.849+/-0.003 $\chi^2$/NDF: 10155046.5/47

Right: 22.014+/-0.004 $\chi^2$/NDF: 6026771.2/45

In: 20.600+/-0.003 $\chi^2$/NDF:7258087.0/42

Out: 21.907+/-0.003 $\chi^2$/NDF:8898609.1/50

All: 21.244+/-0.002 $\chi^2$/NDF: 16243924.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 27.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:52.6/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 25.6/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.8/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 73.0/47

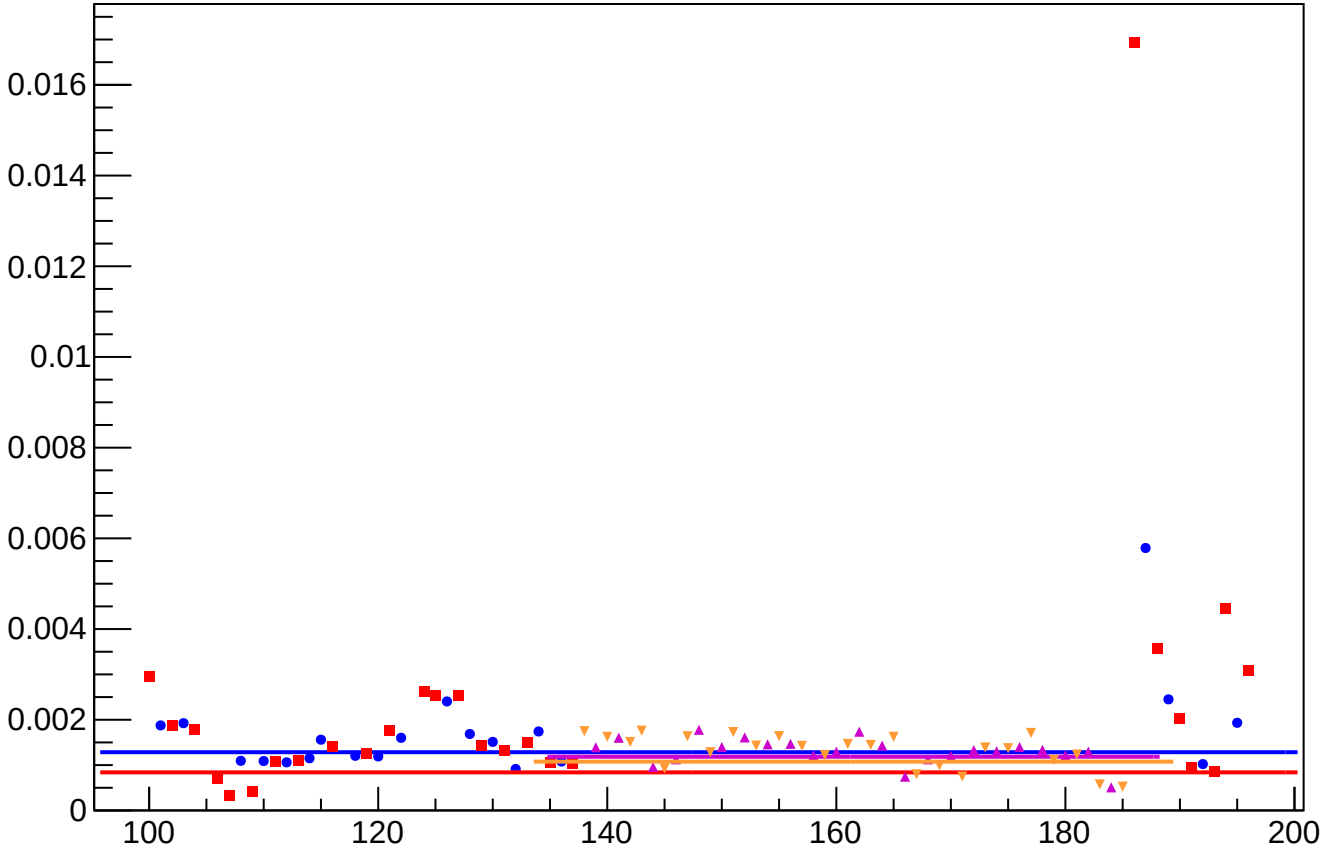
Right: -0.000+/-0.000 $\chi^2$/NDF: 54.0/45

In: 0.000+/-0.000 $\chi^2$/NDF:46.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:82.1/50

All: -0.000+/-0.000 $\chi^2$/NDF: 129.1/93

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.001+/-0.000 $\chi^2$/NDF: 1626533.0/19

Left Out: 0.001+/-0.000 $\chi^2$/NDF:4545392.2/24

Right Out: 0.001+/-0.000 $\chi^2$/NDF: 8634902.3/25

Left In: 0.001+/-0.000 $\chi^2$/NDF:2456537.2/22

Left: 0.001+/-0.000 $\chi^2$/NDF: 7155644.5/47

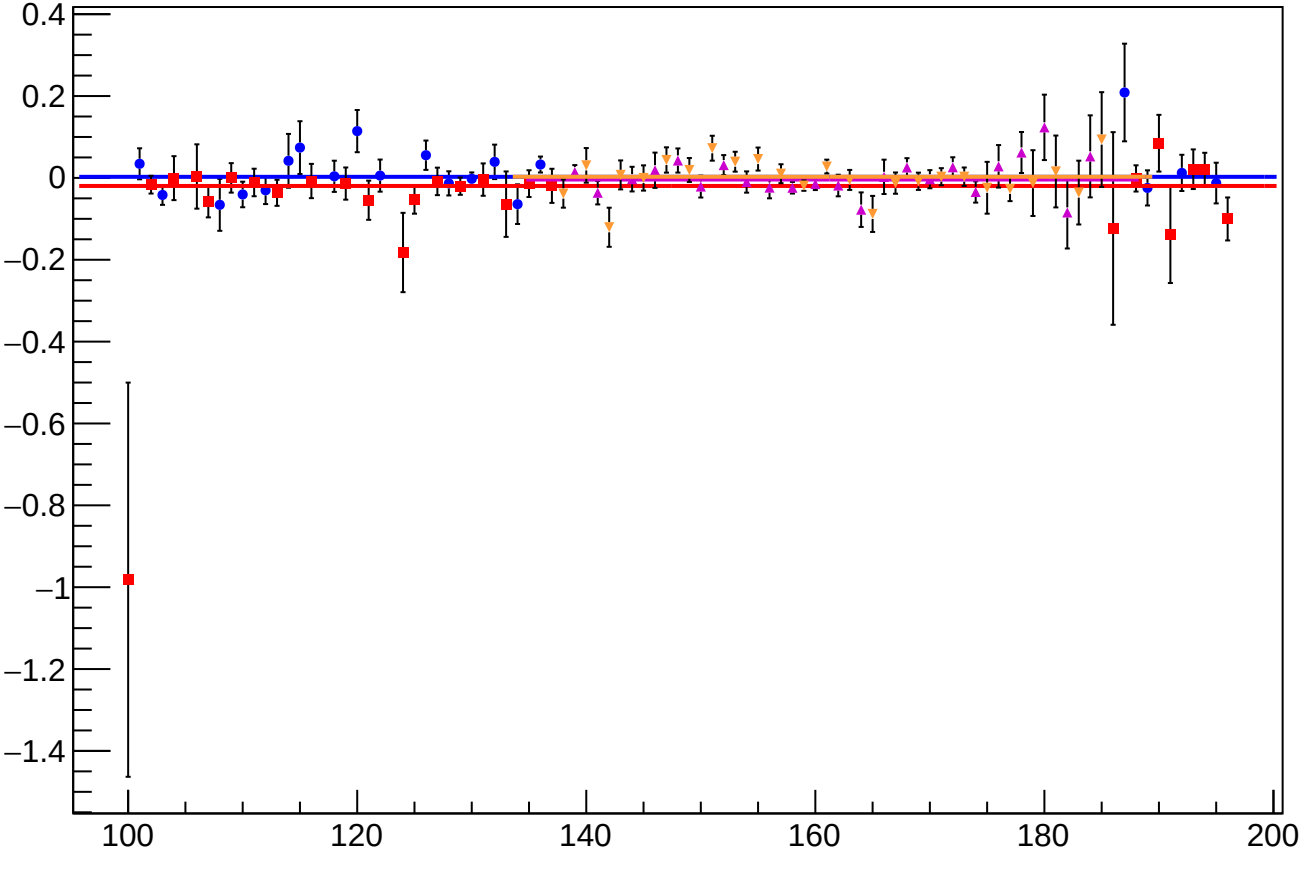
Right: 0.001+/-0.000 $\chi^2$/NDF: 11616270.2/45

In: 0.001+/-0.000 $\chi^2$/NDF:4154422.9/42

Out: 0.001+/-0.000 $\chi^2$/NDF:13855768.3/50

All: 0.001+/-0.000 $\chi^2$/NDF: 19141771.8/93

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.007 $\chi^2$/NDF: 25.5/19

Left Out: 0.003+/-0.005 $\chi^2$/NDF:32.8/24

Right Out: -0.020+/-0.008 $\chi^2$/NDF: 18.6/25

Left In: -0.004+/-0.005 $\chi^2$/NDF:24.6/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 58.2/47

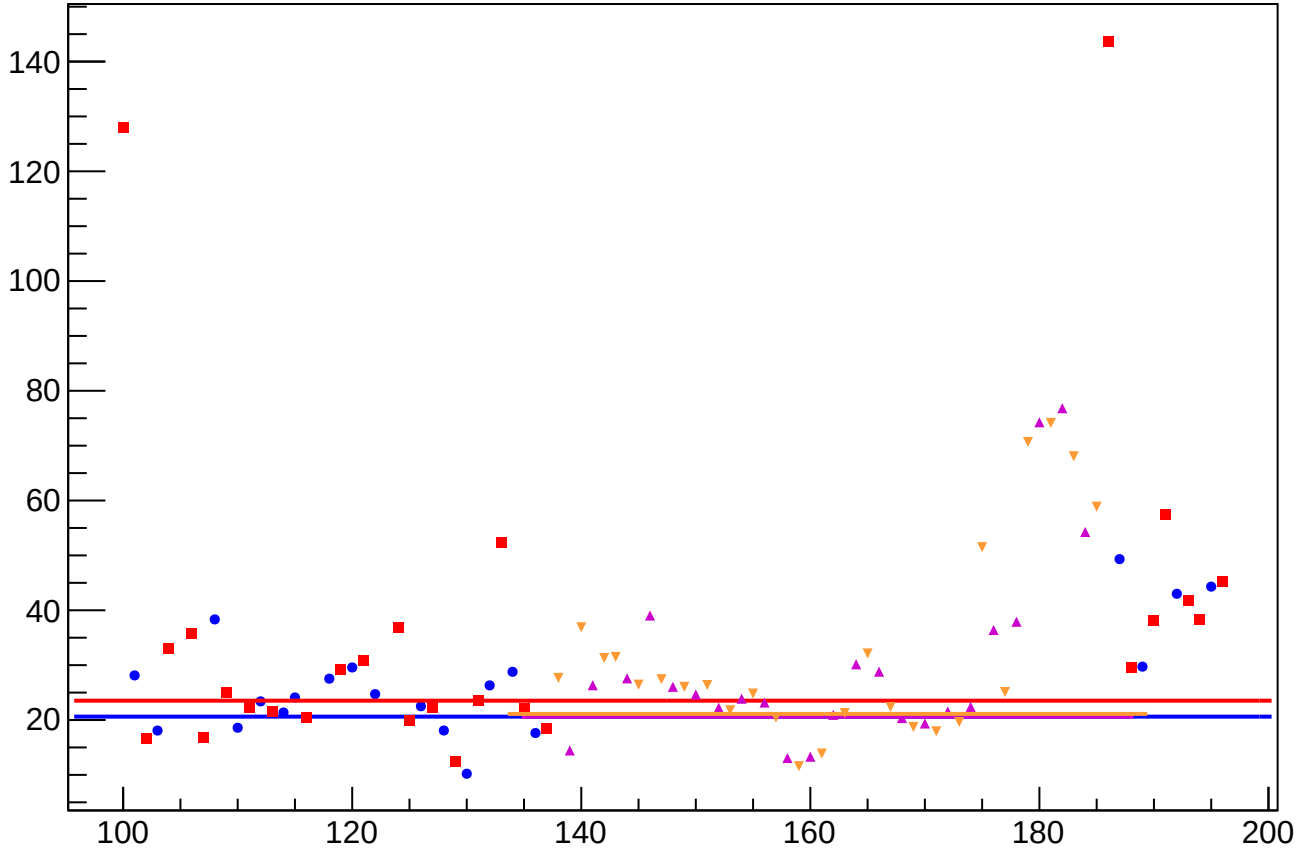
Right: -0.008+/-0.005 $\chi^2$/NDF: 48.4/45

In: -0.002+/-0.004 $\chi^2$/NDF:50.6/42

Out: -0.005+/-0.004 $\chi^2$/NDF:57.1/50

All: -0.003+/-0.003 $\chi^2$/NDF: 107.9/93

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.617+/-0.005 $\chi^2$/NDF: 2658416.2/19

Left Out: 21.109+/-0.004 $\chi^2$/NDF:5546663.4/24

Right Out: 23.522+/-0.005 $\chi^2$/NDF: 3222359.9/25

Left In: 20.592+/-0.004 $\chi^2$/NDF:4599496.2/22

Left: 20.849+/-0.003 $\chi^2$/NDF: 10155178.1/47

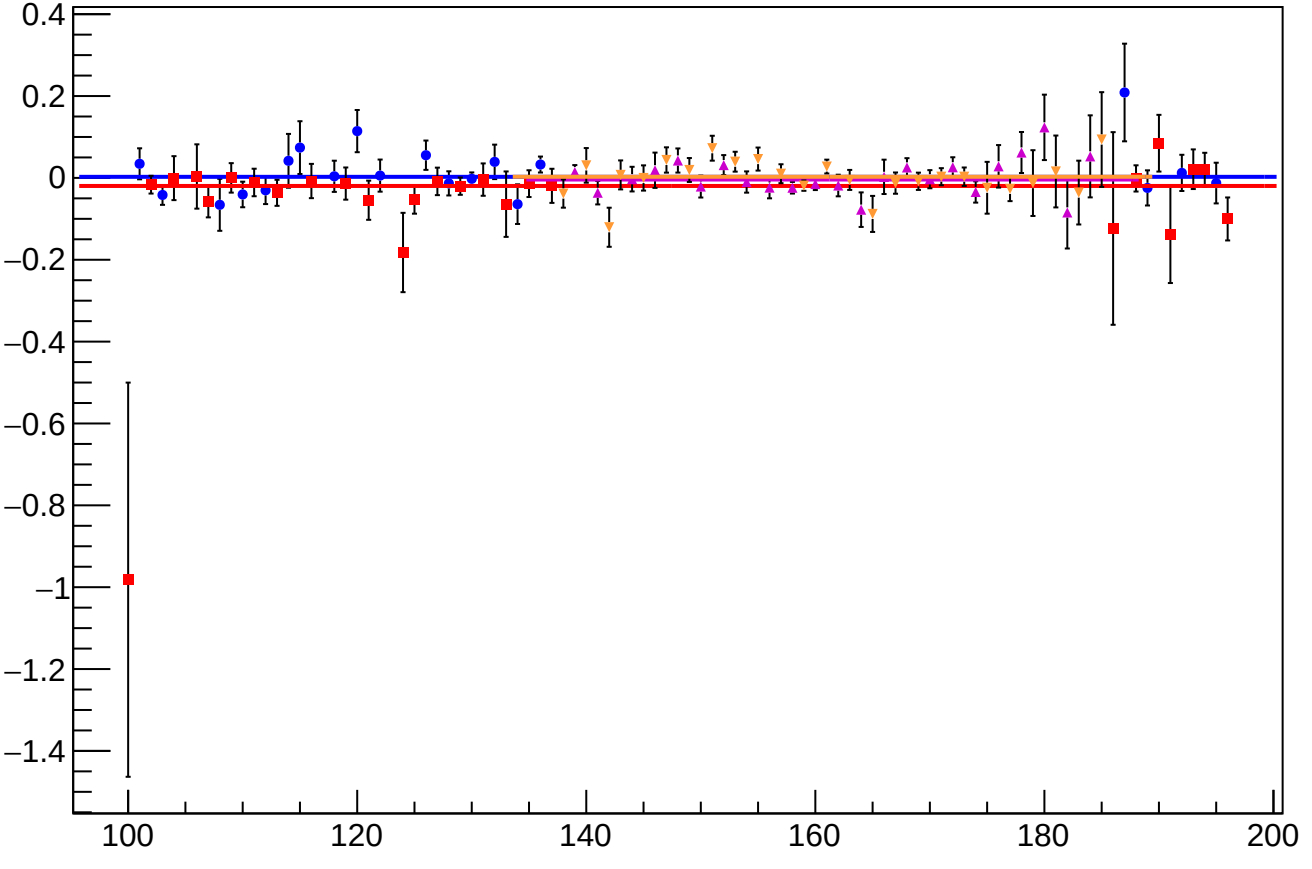
Right: 22.015+/-0.004 $\chi^2$/NDF: 6026557.9/45

In: 20.600+/-0.003 $\chi^2$/NDF:7257927.1/42

Out: 21.908+/-0.003 $\chi^2$/NDF:8898733.6/50

All: 21.244+/-0.002 $\chi^2$/NDF: 16243863.0/93

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.003+/-0.007 $\chi^2$/NDF: 25.5/19

Left Out: 0.003+/-0.005 $\chi^2$/NDF:32.8/24

Right Out: -0.020+/-0.008 $\chi^2$/NDF: 18.6/25

Left In: -0.004+/-0.005 $\chi^2$/NDF:24.6/22

Left: -0.001+/-0.004 $\chi^2$/NDF: 58.2/47

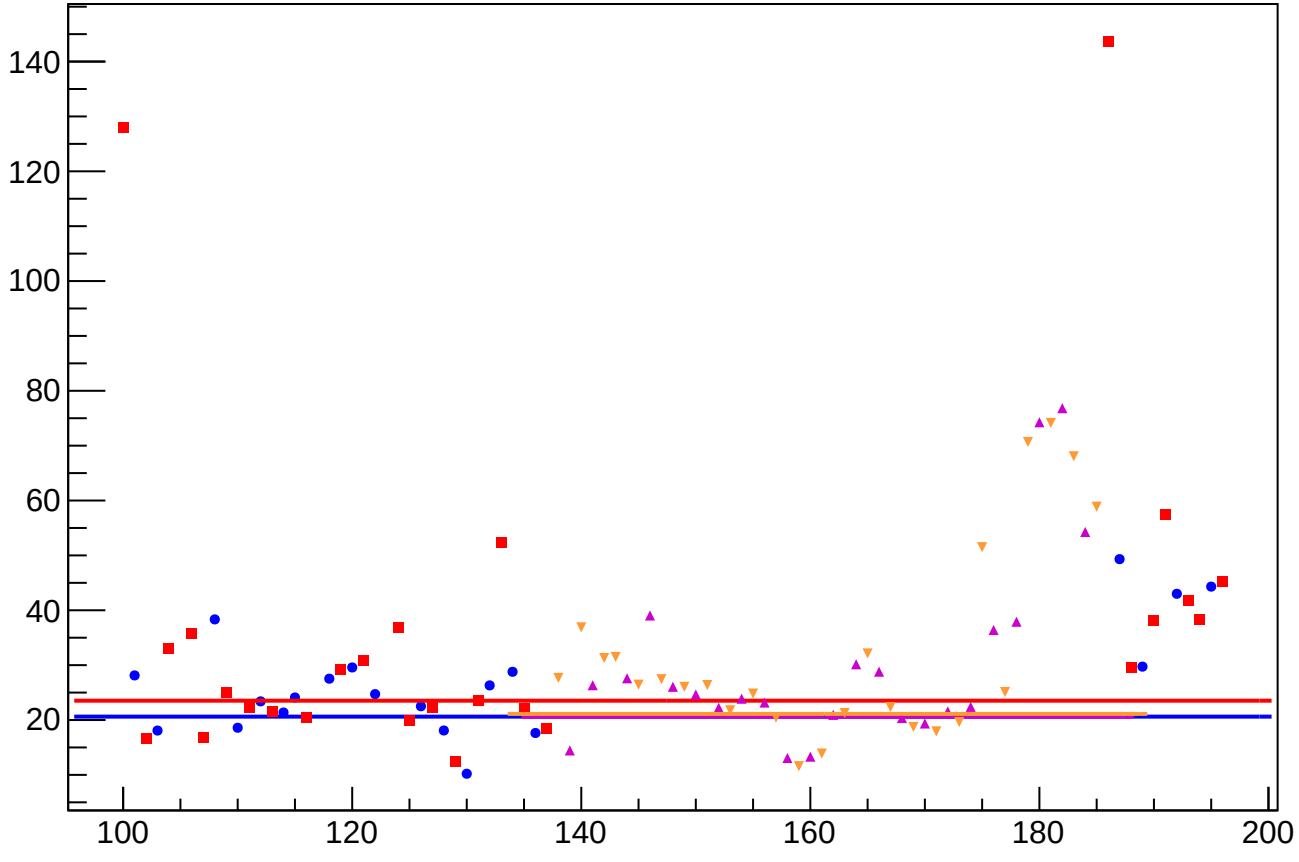
Right: -0.008+/-0.005 $\chi^2$/NDF: 48.4/45

In: -0.002+/-0.004 $\chi^2$/NDF:50.6/42

Out: -0.005+/-0.004 $\chi^2$/NDF:57.1/50

All: -0.003+/-0.003 $\chi^2$/NDF: 107.9/93

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 20.617+/-0.005 $\chi^2$/NDF: 2658416.2/19

Left Out: 21.109+/-0.004 $\chi^2$/NDF:5546663.4/24

Right Out: 23.522+/-0.005 $\chi^2$/NDF: 3222359.9/25

Left In: 20.592+/-0.004 $\chi^2$/NDF:4599496.2/22

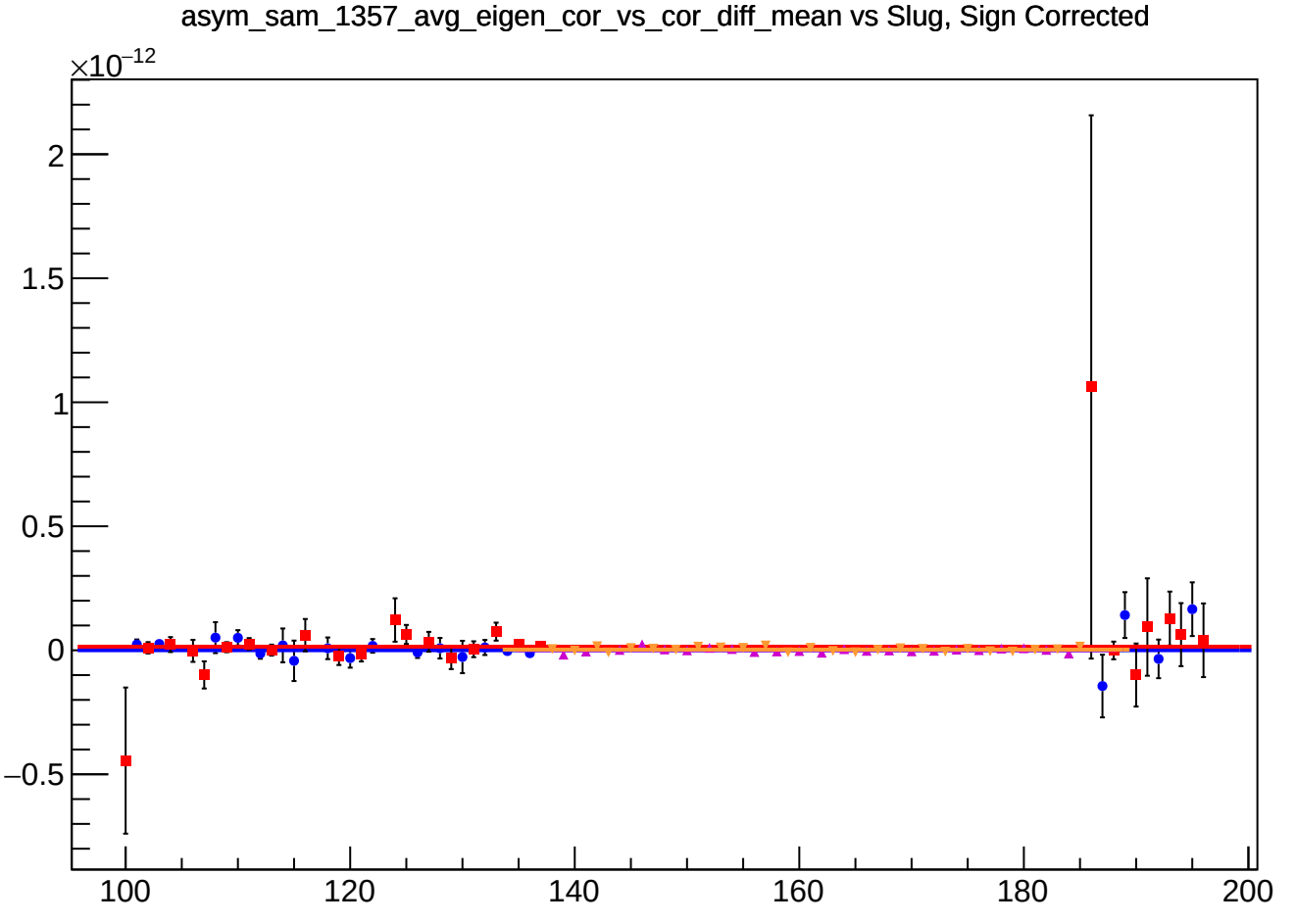
Left: 20.849+/-0.003 $\chi^2$/NDF: 10155178.1/47

Right: 22.015+/-0.004 $\chi^2$/NDF: 6026557.9/45

In: 20.600+/-0.003 $\chi^2$/NDF:7257927.1/42

Out: 21.908+/-0.003 $\chi^2$/NDF:8898733.6/50

All: 21.244+/-0.002 $\chi^2$/NDF: 16243863.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 16.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:20.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 21.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:21.4/22

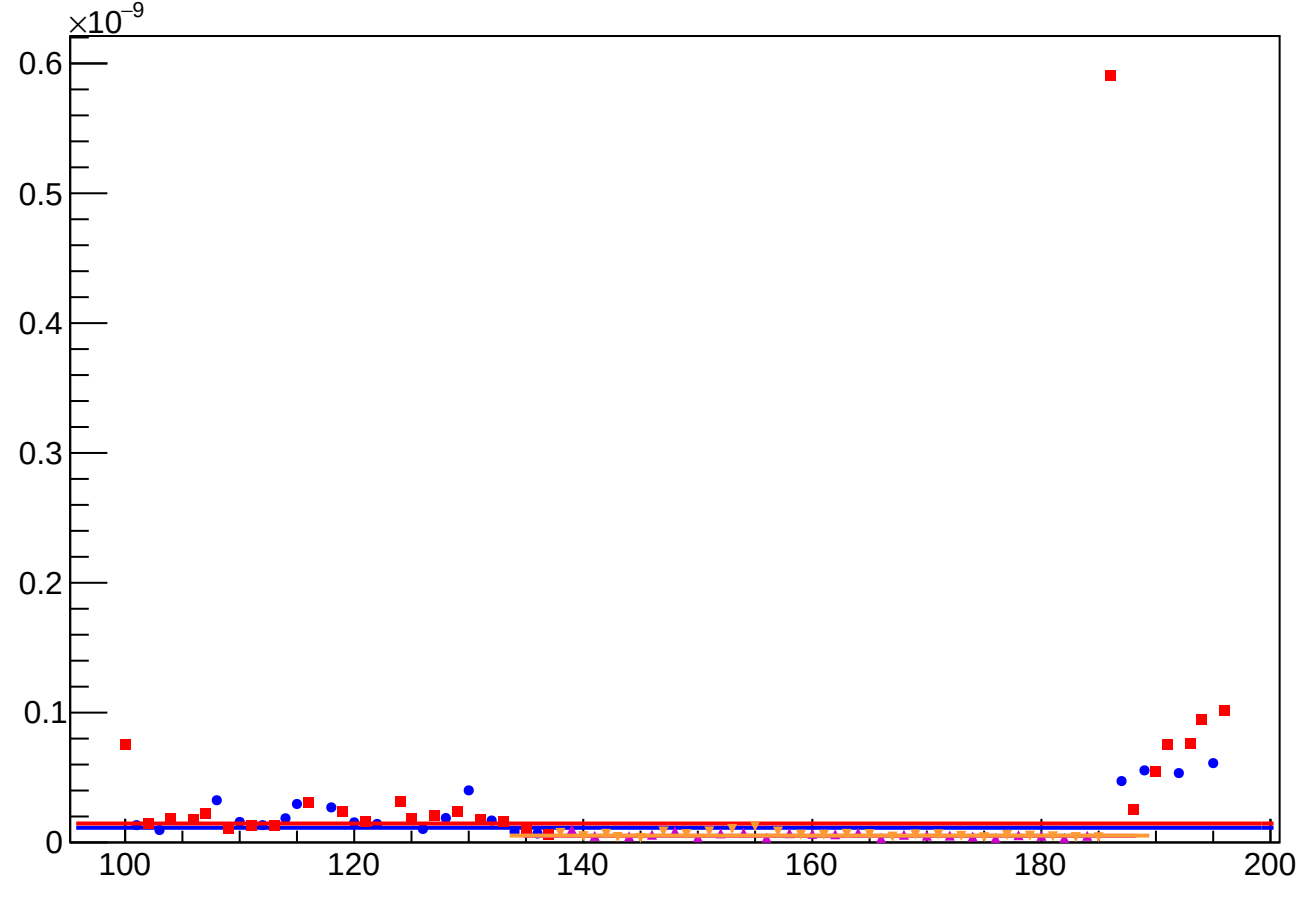
Left: 0.000+/-0.000 $\chi^2$/NDF: 42.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 40.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:38.1/42

Out: 0.000+/-0.000 $\chi^2$/NDF:44.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 84.4/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3487098.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2053779.9/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 4713968.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1700889.7/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 3769522.8/47

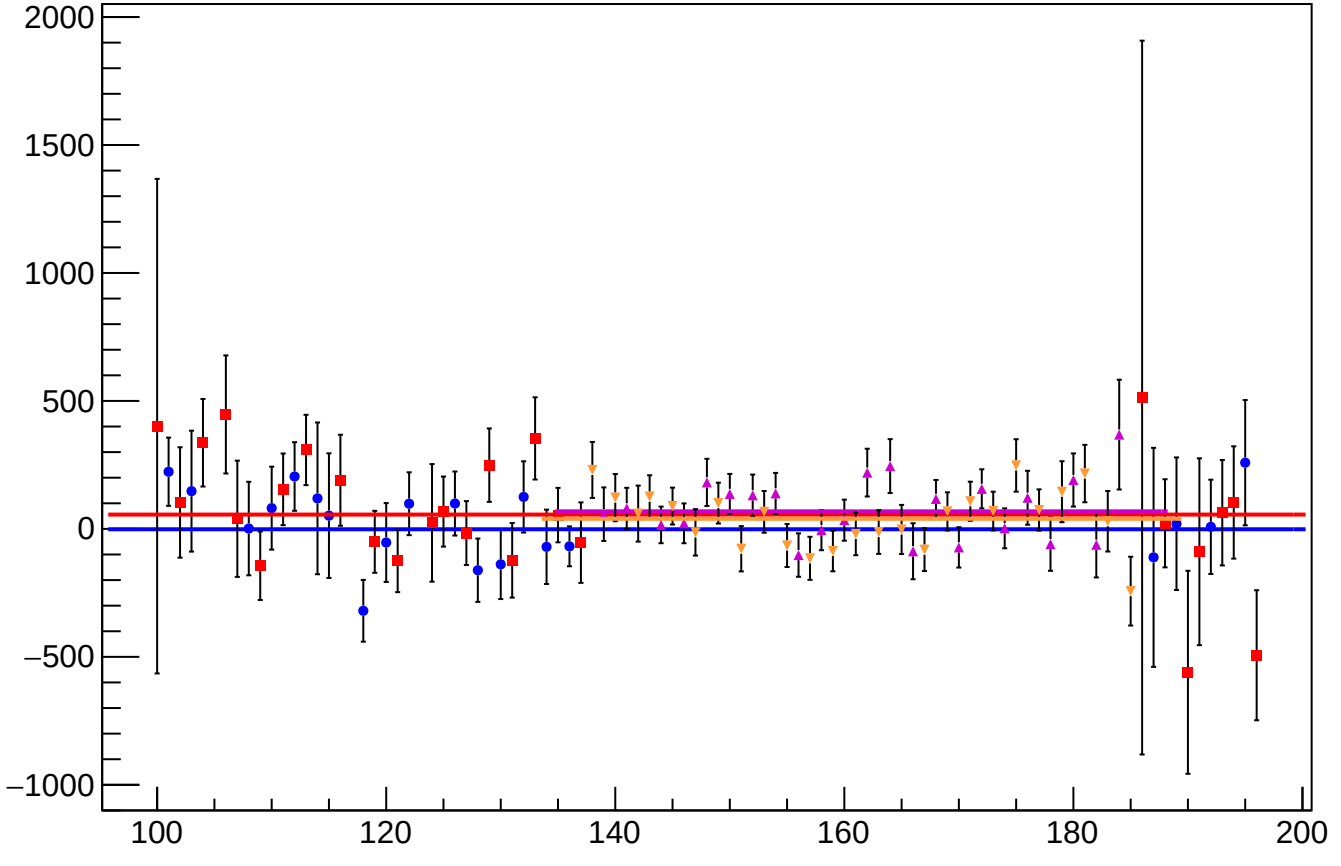
Right: 0.000+/-0.000 $\chi^2$/NDF: 8501152.6/45

In: 0.000+/-0.000 $\chi^2$/NDF:7511399.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:10791340.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 18330782.9/93

# reg_asym_sam_2468_avg_mean vs Slug, Sign Corrected




Right In: -1.449+/-33.019 $\chi^2$/NDF: 20.2/19

Left Out: 39.477+/-17.666 $\chi^2$/NDF:31.9/24

Right Out: 55.950+/-32.795 $\chi^2$/NDF: 30.5/25

Left In: 68.620+/-18.317 $\chi^2$/NDF:29.0/22

Left: 53.521+/-12.716 $\chi^2$/NDF: 62.3/47

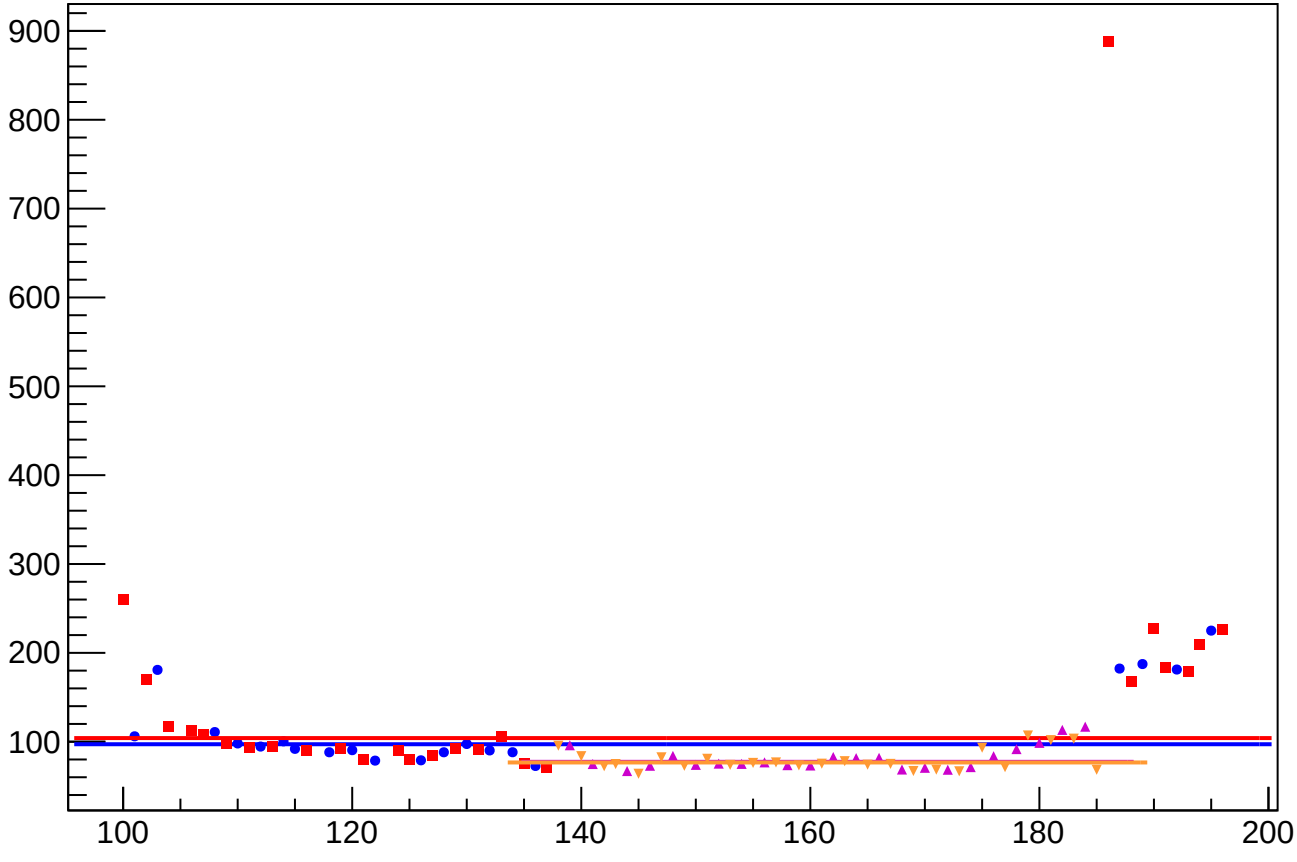
Right: 27.446+/-23.268 $\chi^2$/NDF: 52.1/45

In: 52.131+/-16.018 $\chi^2$/NDF:52.6/42

Out: 43.182+/-15.553 $\chi^2$/NDF:62.6/50

All: 47.525+/-11.158 $\chi^2$/NDF: 115.4/93

# reg_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 97.155+/-0.023 $\chi^2$/NDF: 1880204.4/19

Left Out: 76.646+/-0.012 $\chi^2$/NDF:654608.6/24

Right Out: 104.083+/-0.023 $\chi^2$/NDF: 3162305.5/25

Left In: 77.348+/-0.013 $\chi^2$/NDF:590414.8/22

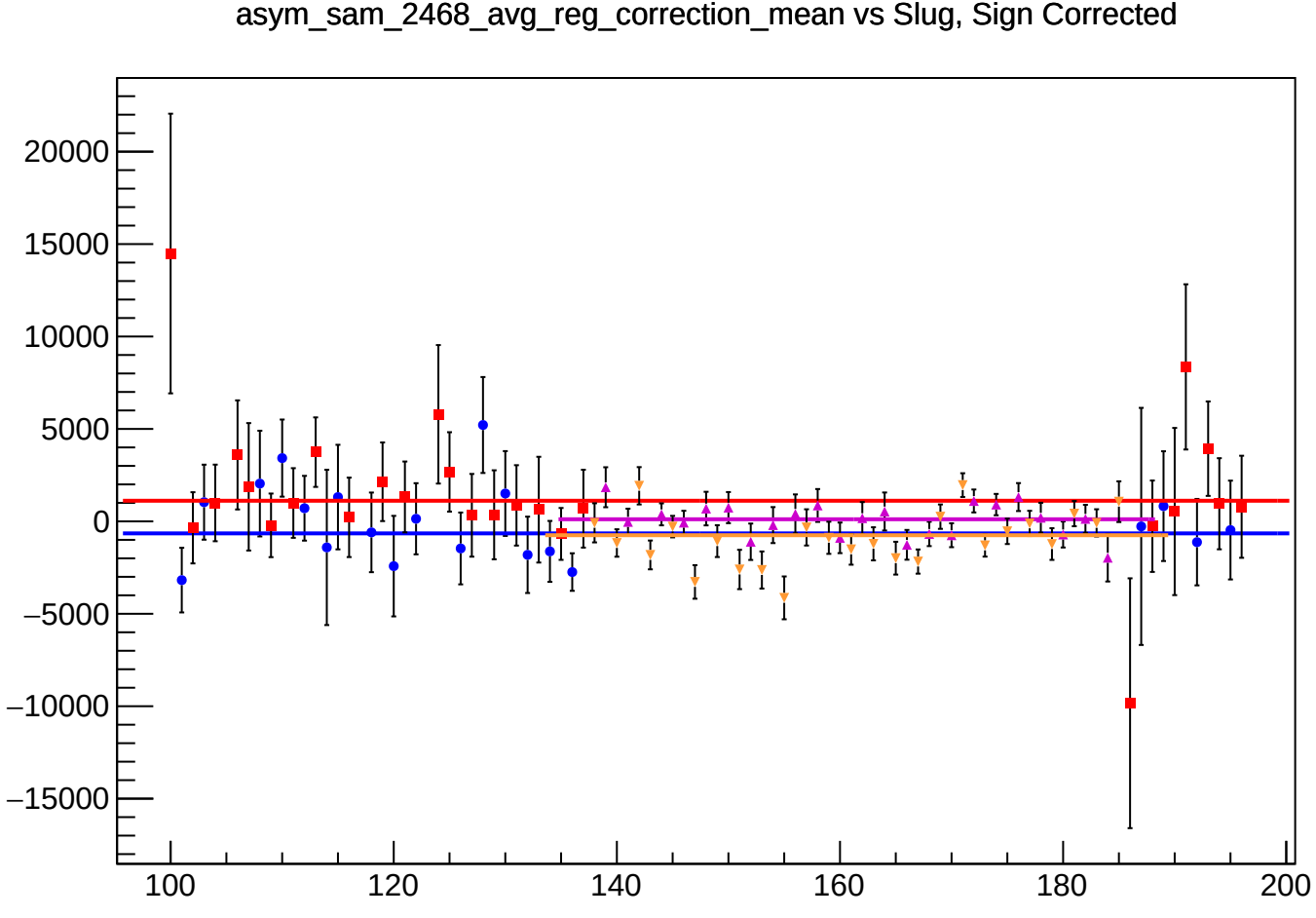
Left: 76.985+/-0.009 $\chi^2$/NDF: 1246545.0/47

Right: 100.642+/-0.016 $\chi^2$/NDF: 5086827.1/45

In: 82.009+/-0.011 $\chi^2$/NDF:3020922.7/42

Out: 82.817+/-0.011 $\chi^2$/NDF:4901864.8/50

All: 82.425+/-0.008 $\chi^2$/NDF: 7925406.6/93




Right In: -650.227+/-461.948 $\chi^2$/NDF: 20.6/19

Left Out: -749.641+/-158.081 $\chi^2$/NDF:70.0/24

Right Out: 1115.576+/-456.777 $\chi^2$/NDF: 18.3/25

Left In: 113.799+/-161.809 $\chi^2$/NDF:25.1/22

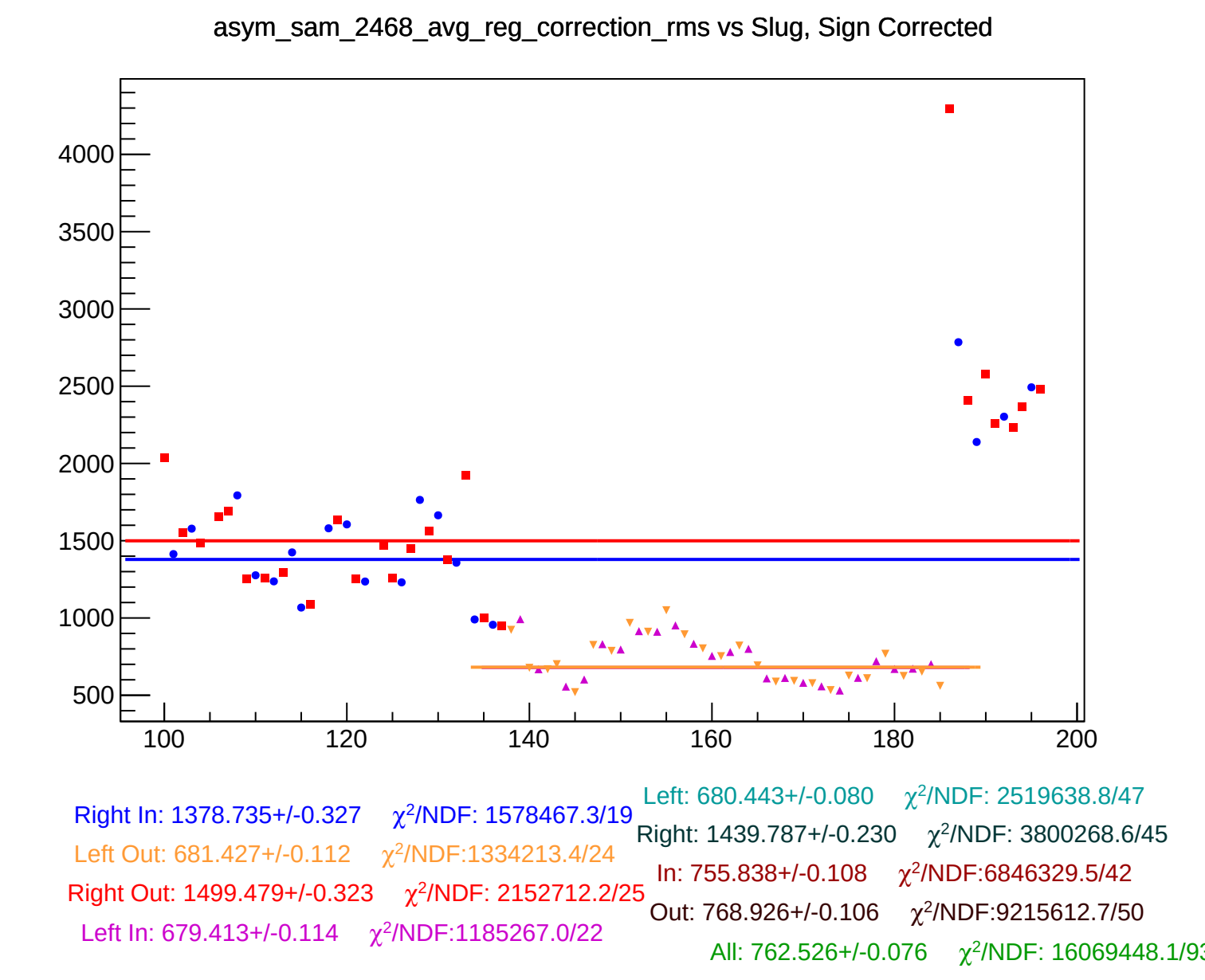
Left: -327.982+/-113.075 $\chi^2$/NDF: 109.6/47

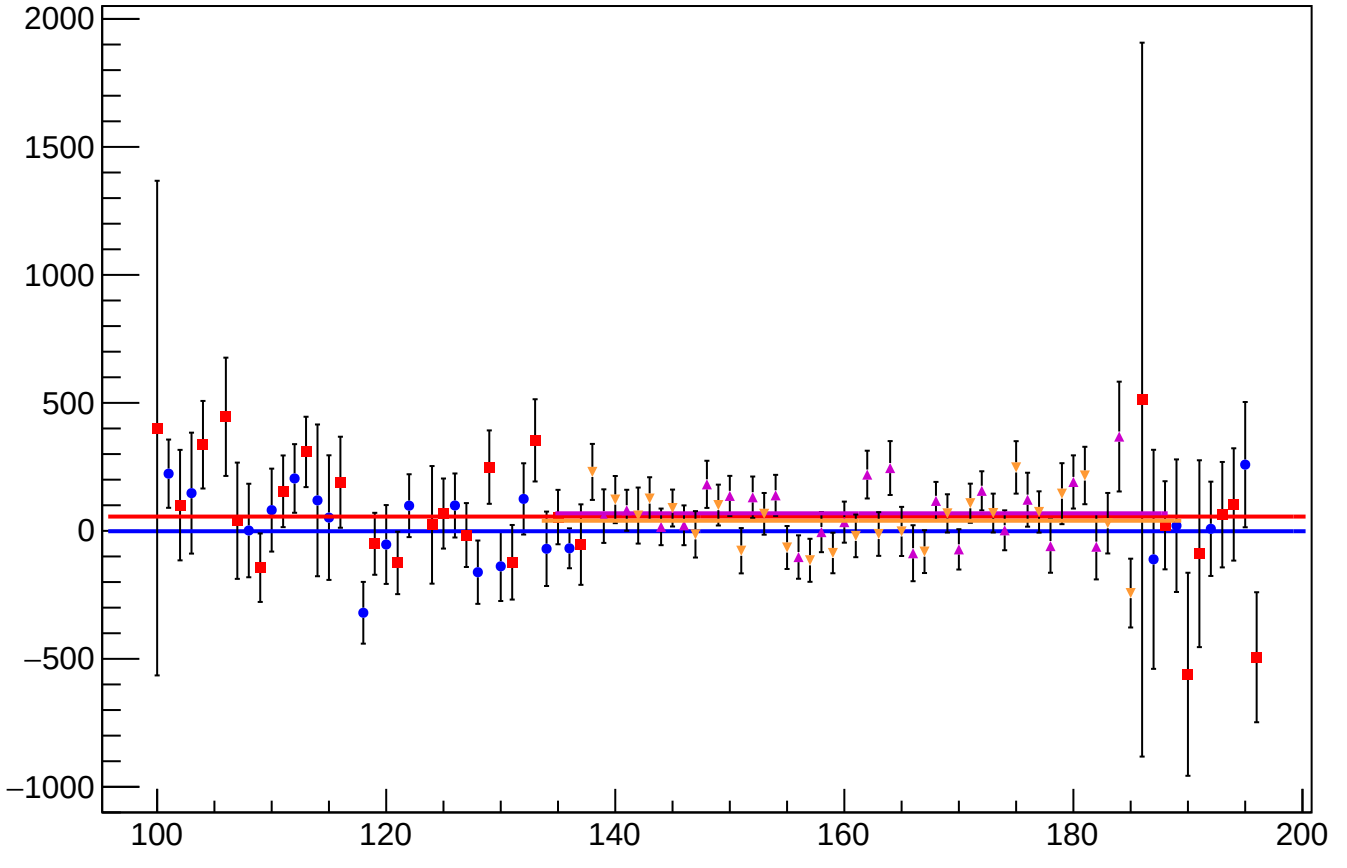
Right: 242.613+/-324.803 $\chi^2$/NDF: 46.2/45

In: 30.303+/-152.712 $\chi^2$/NDF:48.1/42

Out: -550.137+/-149.388 $\chi^2$/NDF:103.1/50

All: -266.303+/-106.789 $\chi^2$/NDF: 158.6/93


asym_sam_2468_avg_reg_correction_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 1378.735+/-0.327 χ²/NDF: 1578467.3/19
Left Out: 681.427+/-0.112 χ²/NDF:1334213.4/24
Right Out: 1499.479+/-0.323 χ²/NDF: 2152712.2/25
Left In: 679.413+/-0.114 χ²/NDF:1185267.0/22
Left: 680.443+/-0.080 χ²/NDF: 2519638.8/47
Right: 1439.787+/-0.230 χ²/NDF: 3800268.6/45
In: 755.838+/-0.108 χ²/NDF:6846329.5/42
Out: 768.926+/-0.106 χ²/NDF:9215612.7/50
All: 762.526+/-0.076 χ²/NDF: 16069448.1/93




Right In: -1.458+/-33.019 $\chi^2$/NDF: 20.2/19

Left Out: 39.484+/-17.666 $\chi^2$/NDF:31.9/24

Right Out: 55.821+/-32.797 $\chi^2$/NDF: 30.4/25

Left In: 68.620+/-18.317 $\chi^2$/NDF:29.0/22

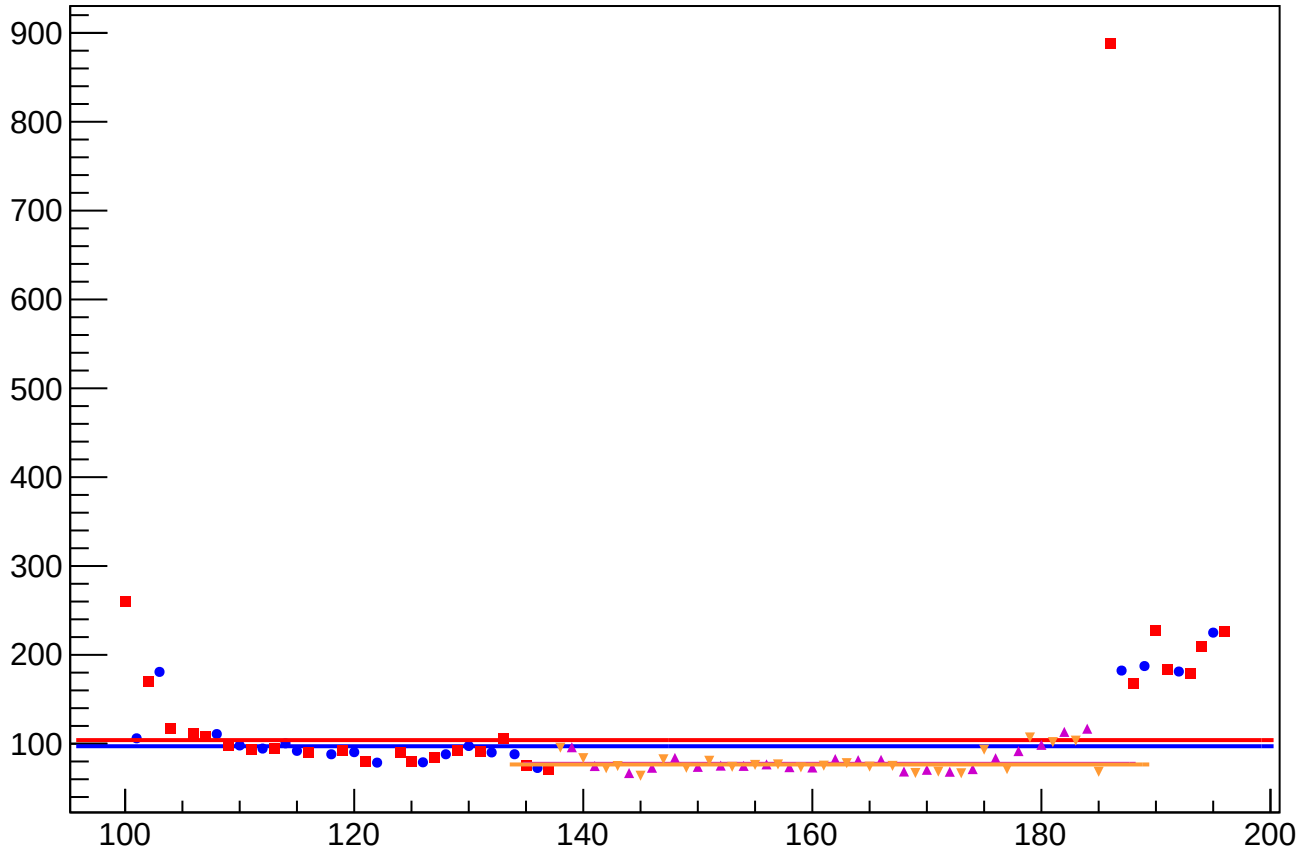
Left: 53.525+/-12.716 $\chi^2$/NDF: 62.3/47

Right: 27.375+/-23.269 $\chi^2$/NDF: 52.1/45

In: 52.129+/-16.018 $\chi^2$/NDF:52.6/42

Out: 43.159+/-15.553 $\chi^2$/NDF:62.6/50

All: 47.512+/-11.158 $\chi^2$/NDF: 115.3/93




Right In: 97.155+/-0.023 $\chi^2$/NDF: 1880208.0/19

Left Out: 76.646+/-0.012 $\chi^2$/NDF:654608.7/24

Right Out: 104.056+/-0.023 $\chi^2$/NDF: 3161760.3/25

Left In: 77.348+/-0.013 $\chi^2$/NDF:590414.8/22

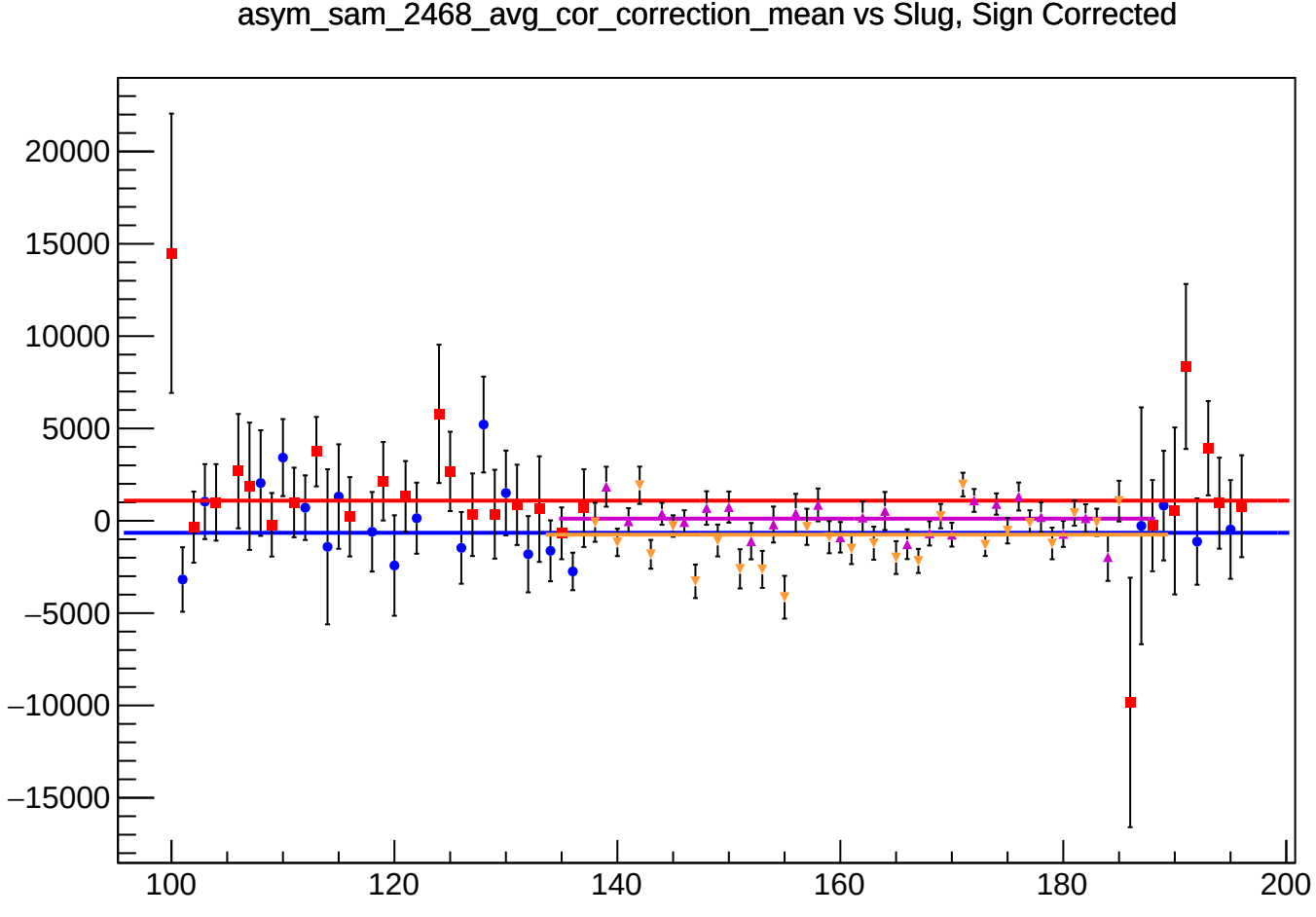
Left: 76.985+/-0.009 $\chi^2$/NDF: 1246545.1/47

Right: 100.629+/-0.016 $\chi^2$/NDF: 5085939.3/45

In: 82.009+/-0.011 $\chi^2$/NDF:3020926.2/42

Out: 82.811+/-0.011 $\chi^2$/NDF:4899108.1/50

All: 82.422+/-0.008 $\chi^2$/NDF: 7922611.3/93




Right In: -650.193+/-461.950 $\chi^2$/NDF: 20.6/19

Left Out: -749.632+/-158.081 $\chi^2$/NDF:70.0/24

Right Out: 1090.845+/-457.297 $\chi^2$/NDF: 17.8/25

Left In: 113.799+/-161.809 $\chi^2$/NDF:25.1/22

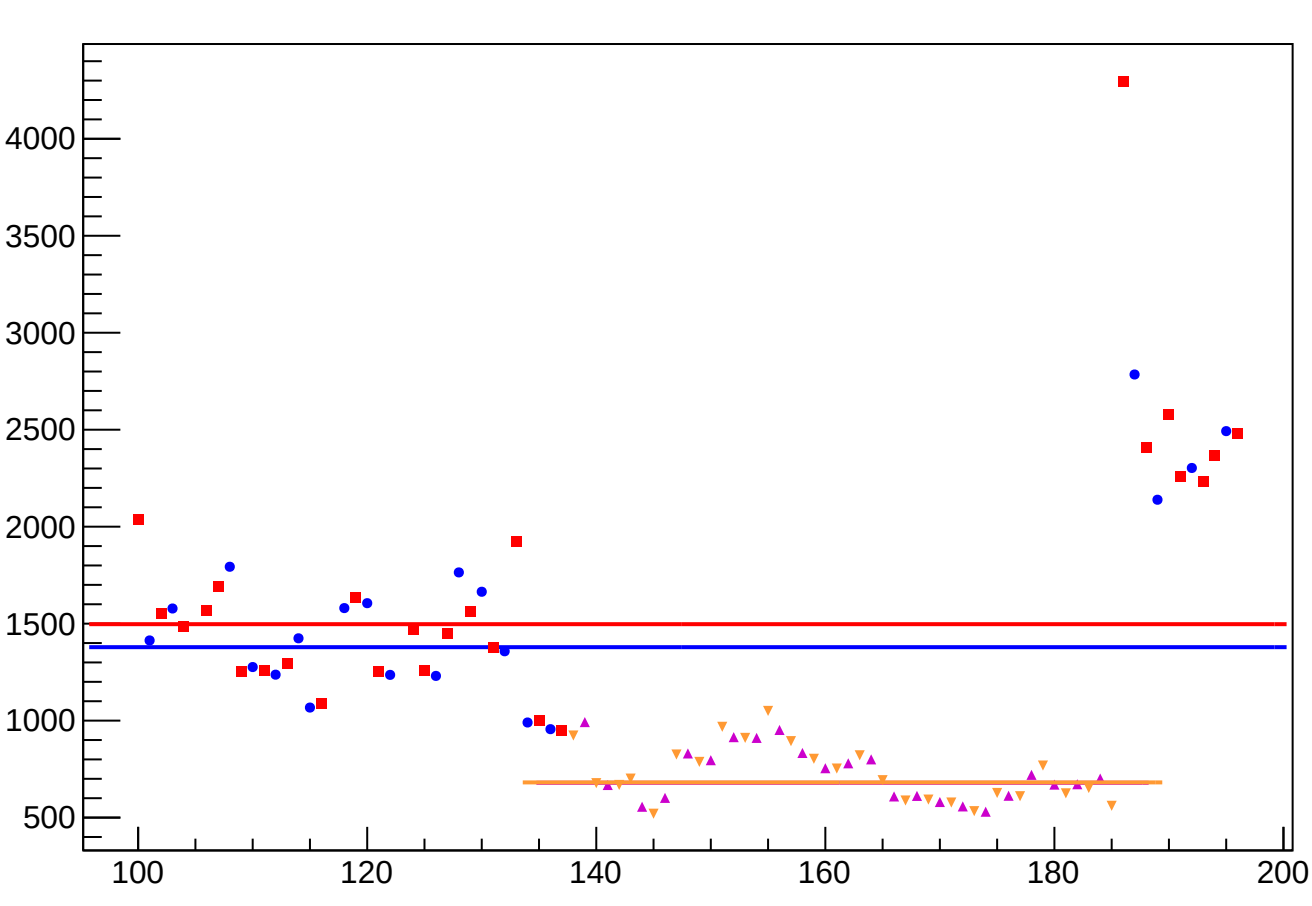
Left: -327.978+/-113.075 $\chi^2$/NDF: 109.6/47

Right: 229.138+/-324.990 $\chi^2$/NDF: 45.6/45

In: 30.307+/-152.712 $\chi^2$/NDF:48.1/42

Out: -553.174+/-149.406 $\chi^2$/NDF:102.3/50

All: -267.818+/-106.796 $\chi^2$/NDF: 157.8/93




Right In: 1378.739+/-0.327 $\chi^2$/NDF: 1578488.5/19

Left Out: 681.426+/-0.112 $\chi^2$/NDF:1334214.9/24

Right Out: 1497.305+/-0.323 $\chi^2$/NDF: 2148159.7/25

Left In: 679.414+/-0.114 $\chi^2$/NDF:1185265.0/22

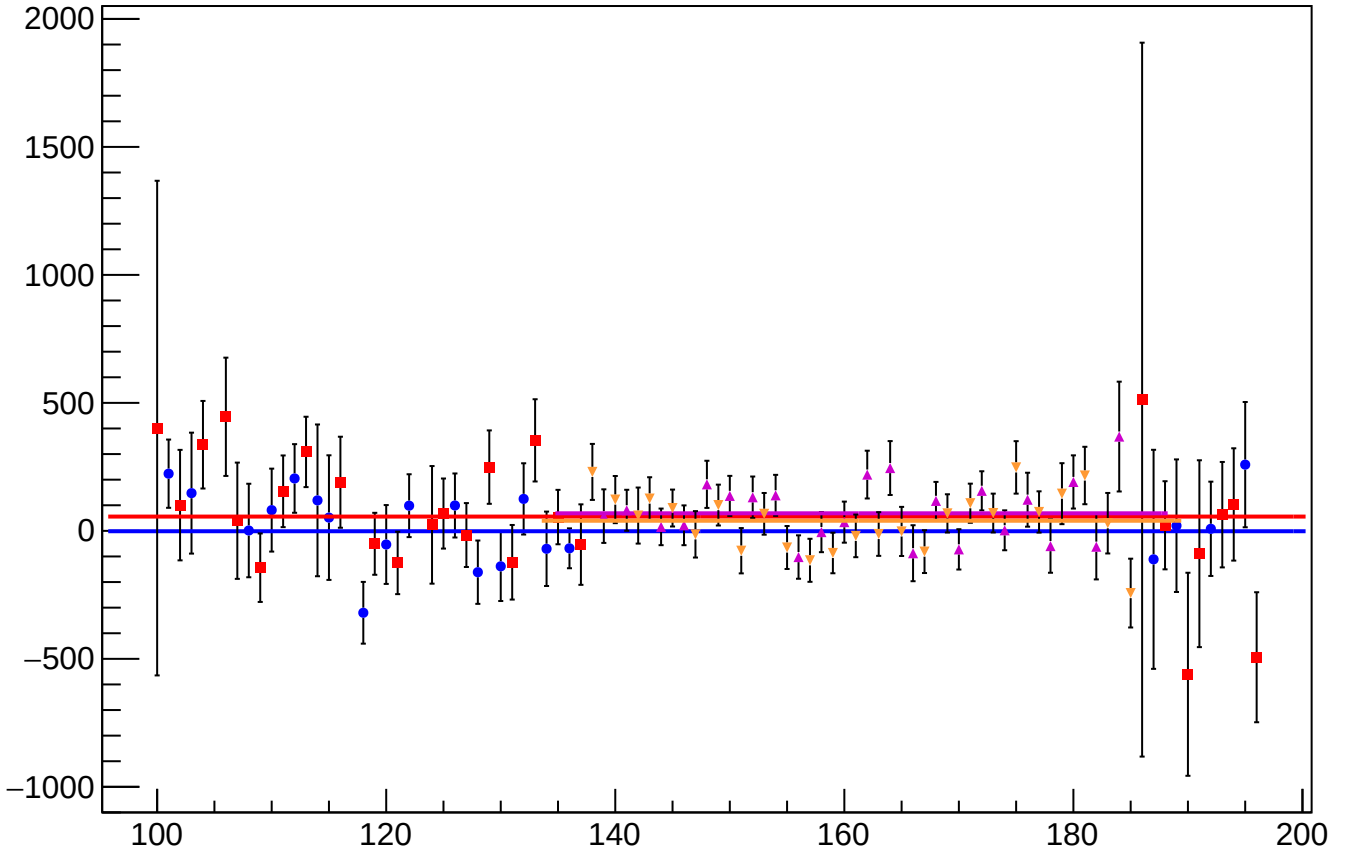
Left: 680.443+/-0.080 $\chi^2$/NDF: 2519638.2/47

Right: 1438.622+/-0.230 $\chi^2$/NDF: 3793192.2/45

In: 755.839+/-0.108 $\chi^2$/NDF:6846364.0/42

Out: 768.516+/-0.106 $\chi^2$/NDF:9169083.0/50

All: 762.316+/-0.076 $\chi^2$/NDF: 16022488.9/93




Right In: -1.458+/-33.019 $\chi^2$/NDF: 20.2/19

Left Out: 39.484+/-17.666 $\chi^2$/NDF:31.9/24

Right Out: 55.821+/-32.797 $\chi^2$/NDF: 30.4/25

Left In: 68.620+/-18.317 $\chi^2$/NDF:29.0/22

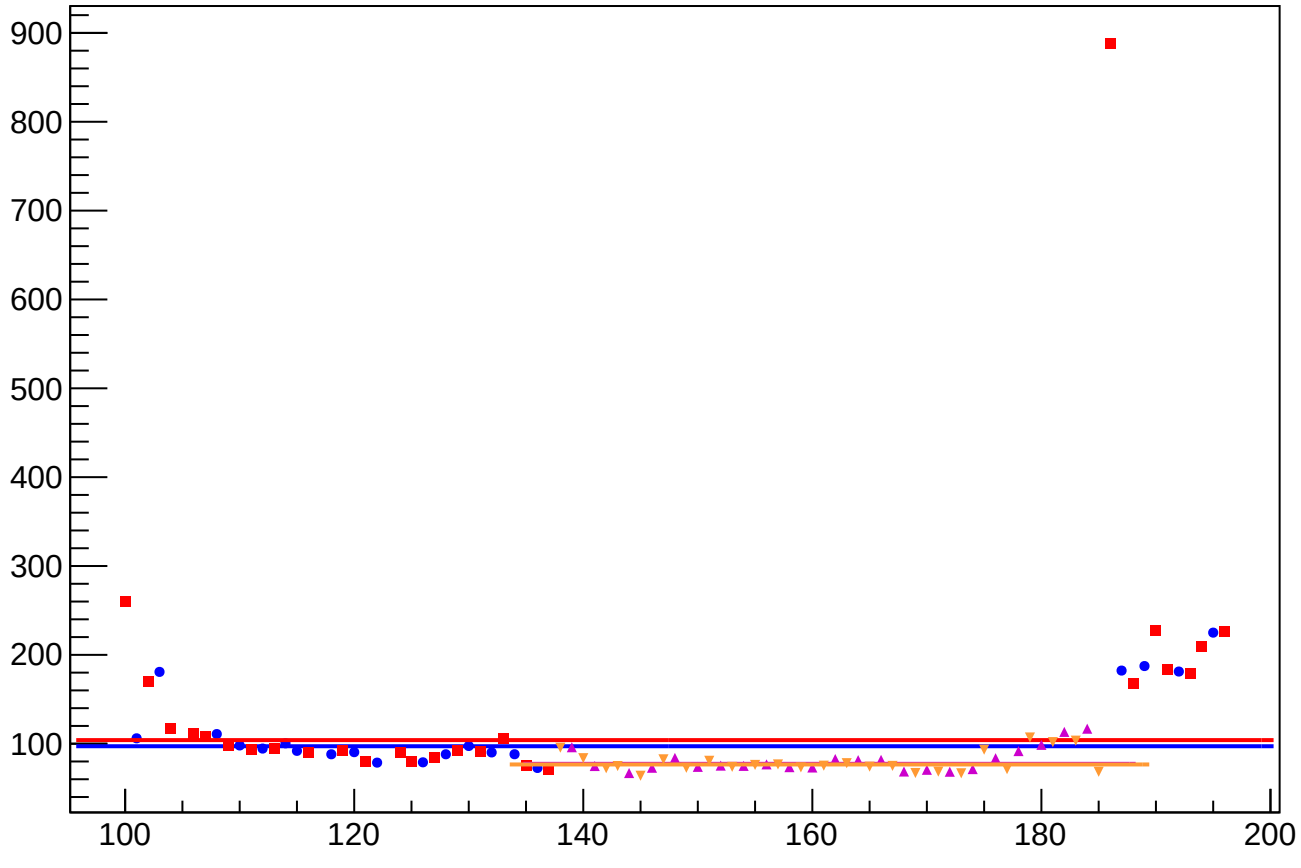
Left: 53.525+/-12.716 $\chi^2$/NDF: 62.3/47

Right: 27.375+/-23.269 $\chi^2$/NDF: 52.1/45

In: 52.129+/-16.018 $\chi^2$/NDF:52.6/42

Out: 43.159+/-15.553 $\chi^2$/NDF:62.6/50

All: 47.512+/-11.158 $\chi^2$/NDF: 115.3/93




Right In: 97.155+/-0.023 $\chi^2$/NDF: 1880208.0/19

Left Out: 76.646+/-0.012 $\chi^2$/NDF:654608.7/24

Right Out: 104.056+/-0.023 $\chi^2$/NDF: 3161760.3/25

Left In: 77.348+/-0.013 $\chi^2$/NDF:590414.8/22

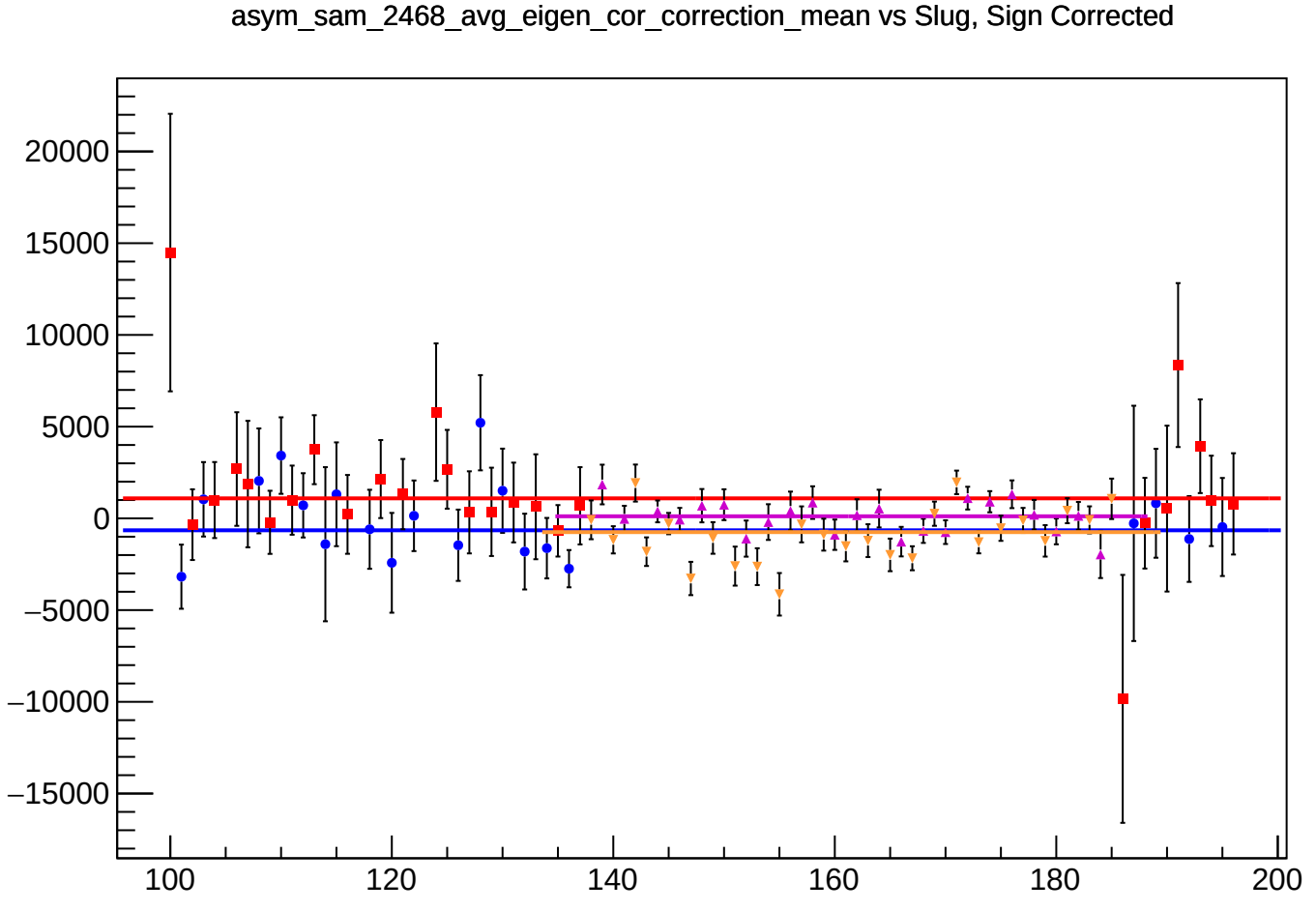
Left: 76.985+/-0.009 $\chi^2$/NDF: 1246545.1/47

Right: 100.629+/-0.016 $\chi^2$/NDF: 5085939.3/45

In: 82.009+/-0.011 $\chi^2$/NDF:3020926.2/42

Out: 82.811+/-0.011 $\chi^2$/NDF:4899108.1/50

All: 82.422+/-0.008 $\chi^2$/NDF: 7922611.3/93




Right In: -650.193+/-461.950 $\chi^2$/NDF: 20.6/19

Left Out: -749.632+/-158.081 $\chi^2$/NDF:70.0/24

Right Out: 1090.845+/-457.297 $\chi^2$/NDF: 17.8/25

Left In: 113.799+/-161.809 $\chi^2$/NDF:25.1/22

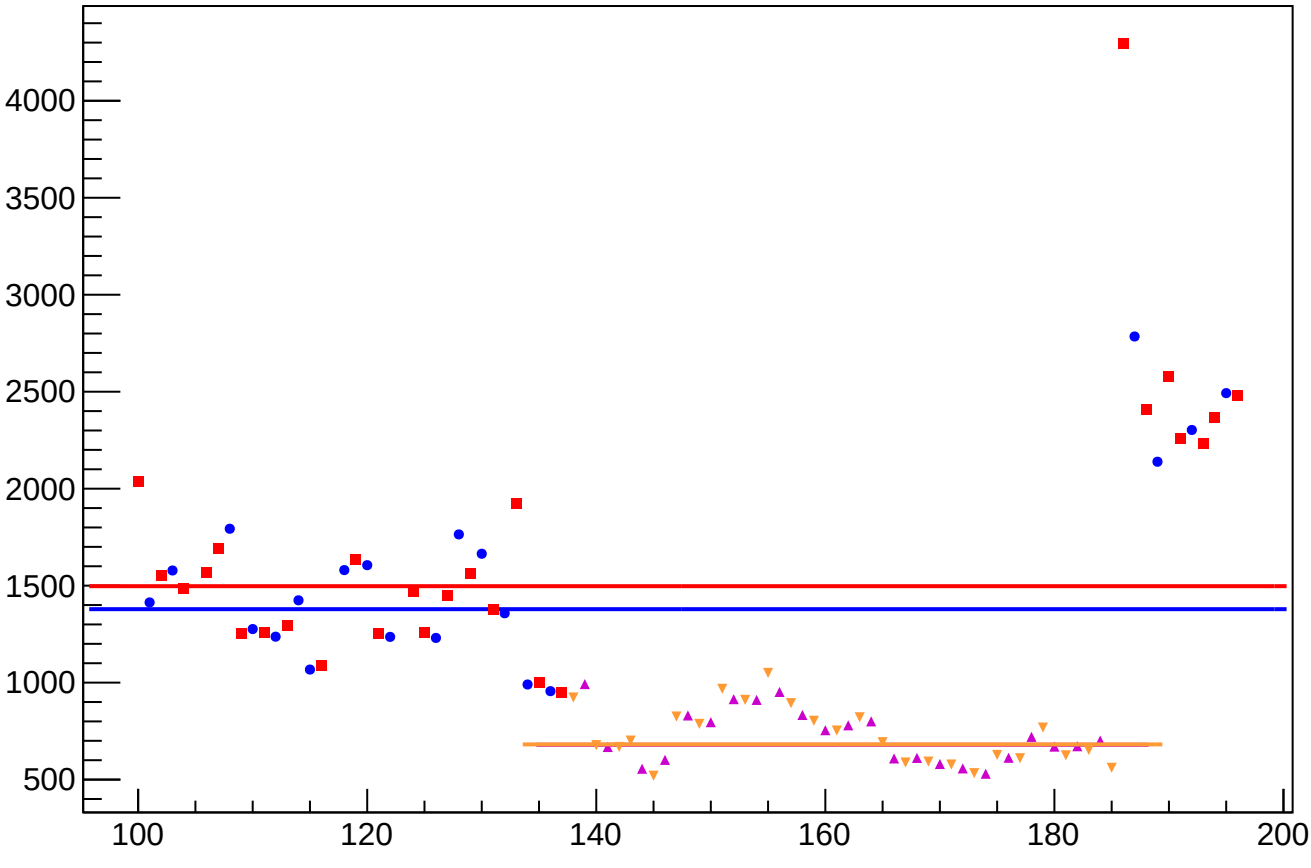
Left: -327.978+/-113.075 $\chi^2$/NDF: 109.6/47

Right: 229.138+/-324.990 $\chi^2$/NDF: 45.6/45

In: 30.307+/-152.712 $\chi^2$/NDF:48.1/42

Out: -553.174+/-149.406 $\chi^2$/NDF:102.3/50

All: -267.818+/-106.796 $\chi^2$/NDF: 157.8/93




Right In: 1378.739+/-0.327 $\chi^2$/NDF: 1578488.5/19

Left Out: 681.426+/-0.112 $\chi^2$/NDF:1334214.9/24

Right Out: 1497.305+/-0.323 $\chi^2$/NDF: 2148159.7/25

Left In: 679.414+/-0.114 $\chi^2$/NDF:1185265.0/22

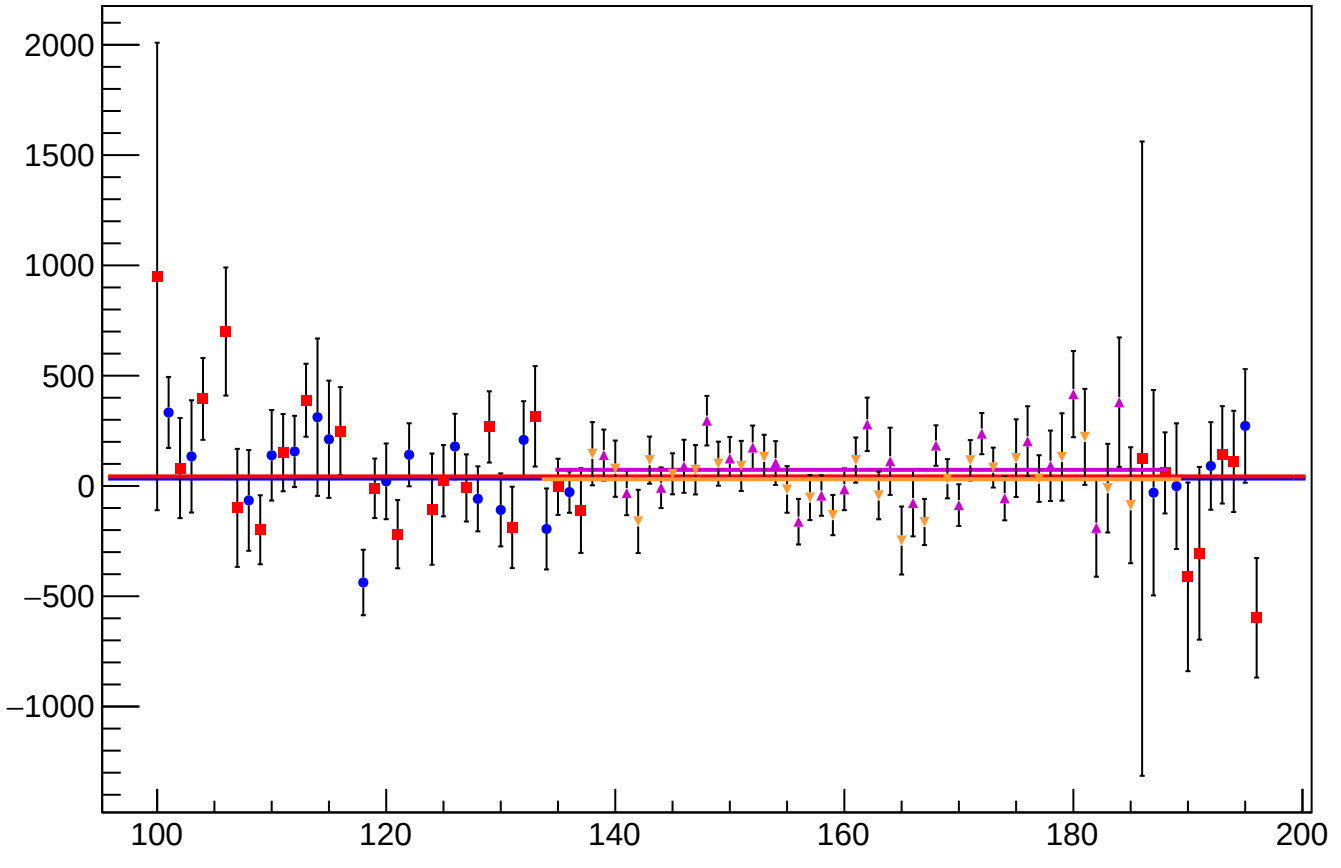
Left: 680.443+/-0.080 $\chi^2$/NDF: 2519638.2/47

Right: 1438.622+/-0.230 $\chi^2$/NDF: 3793192.2/45

In: 755.839+/-0.108 $\chi^2$/NDF:6846364.0/42

Out: 768.516+/-0.106 $\chi^2$/NDF:9169083.0/50

All: 762.316+/-0.076 $\chi^2$/NDF: 16022488.9/93




Right In: 33.602+/-39.346 $\chi^2$/NDF: 22.4/19

Left Out: 30.684+/-22.856 $\chi^2$/NDF:19.9/24

Right Out: 43.393+/-38.489 $\chi^2$/NDF: 35.0/25

Left In: 73.147+/-23.510 $\chi^2$/NDF:34.5/22

Left: 51.316+/-16.388 $\chi^2$/NDF: 56.1/47

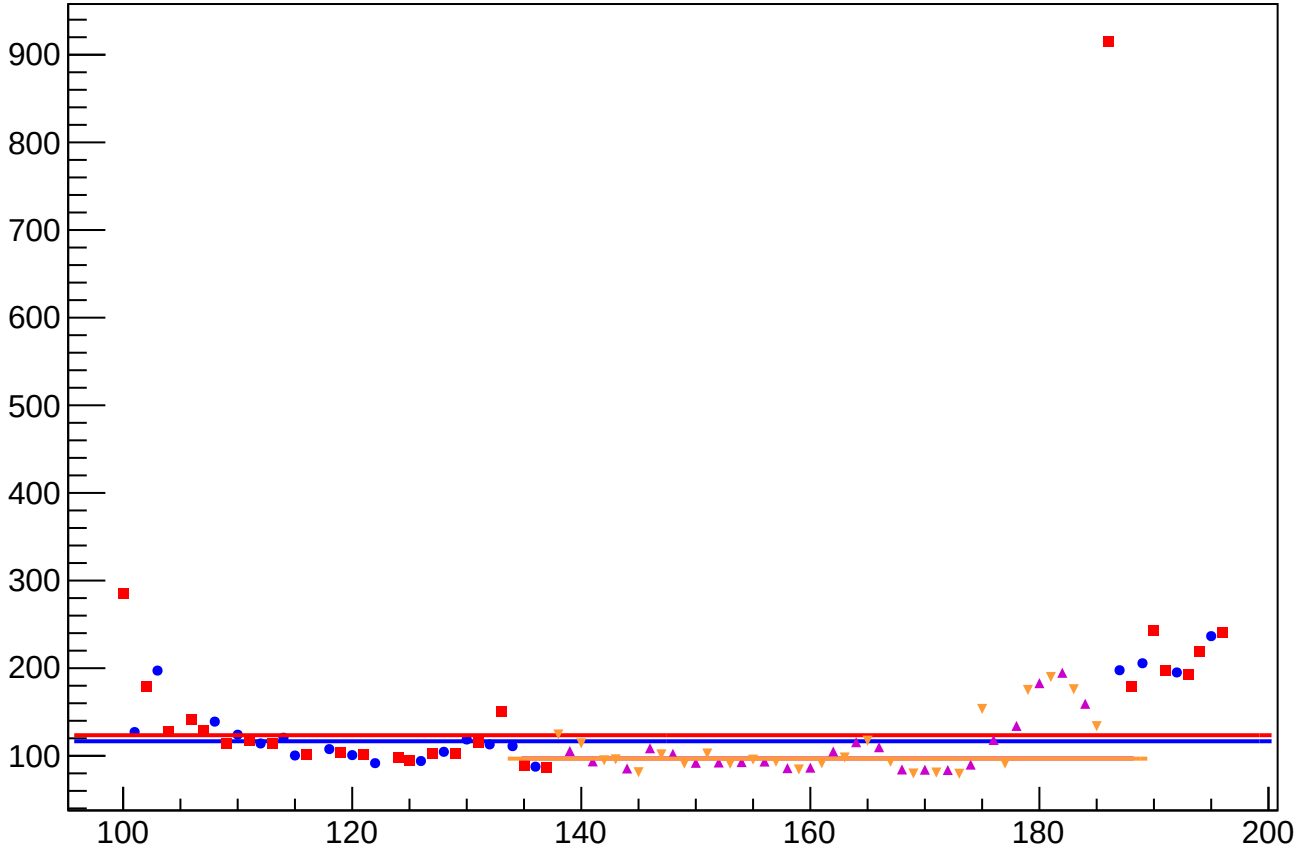
Right: 38.605+/-27.514 $\chi^2$/NDF: 57.4/45

In: 62.743+/-20.182 $\chi^2$/NDF:57.6/42

Out: 33.997+/-19.652 $\chi^2$/NDF:55.0/50

All: 47.988+/-14.080 $\chi^2$/NDF: 113.7/93

# dit_asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 116.636+/-0.028 $\chi^2$/NDF: 1580083.2/19

Left Out: 96.794+/-0.016 $\chi^2$/NDF:1720415.9/24

Right Out: 123.520+/-0.027 $\chi^2$/NDF: 2645155.0/25

Left In: 97.017+/-0.017 $\chi^2$/NDF:1321187.5/22

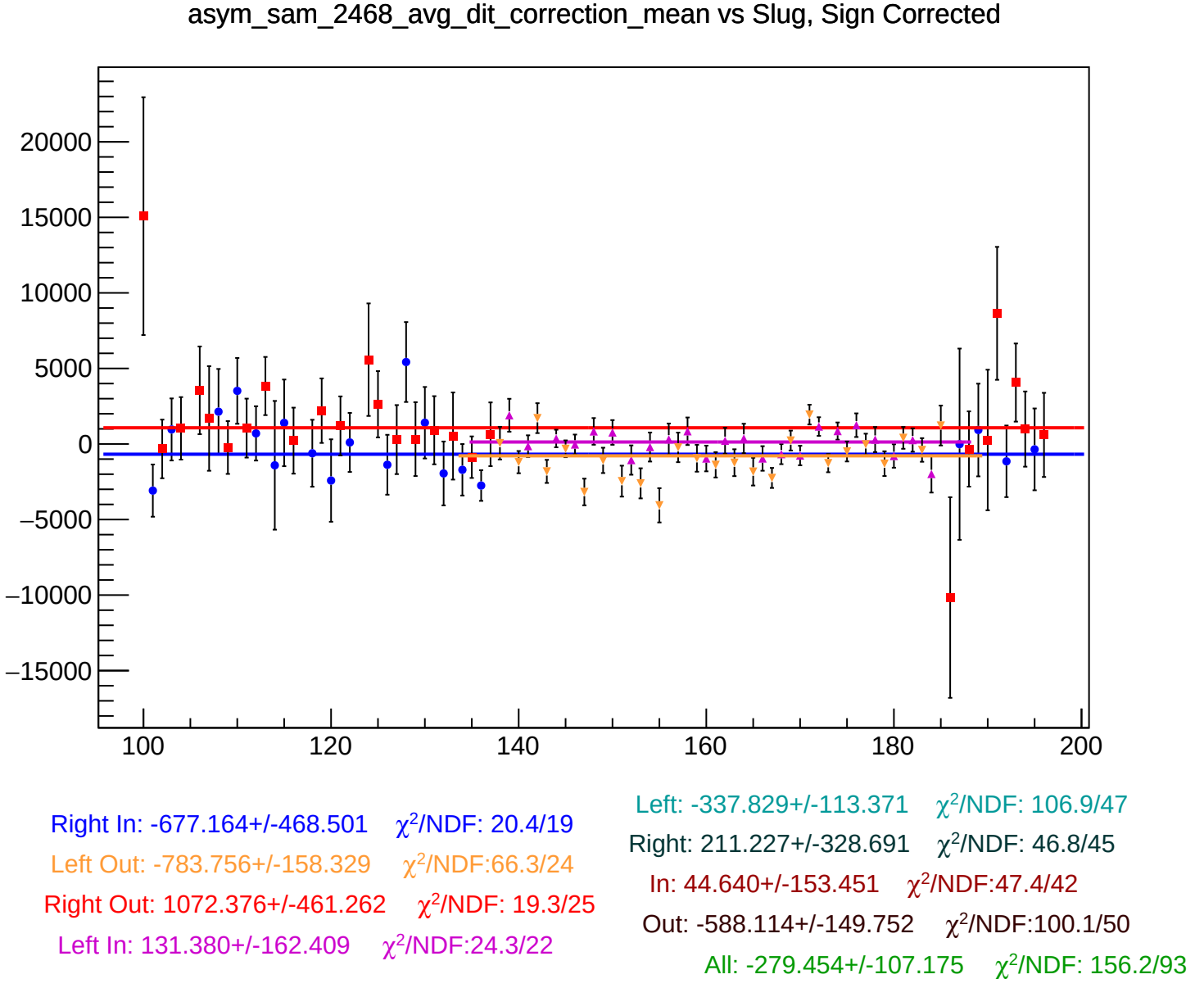
Left: 96.902+/-0.012 $\chi^2$/NDF: 3041695.3/47

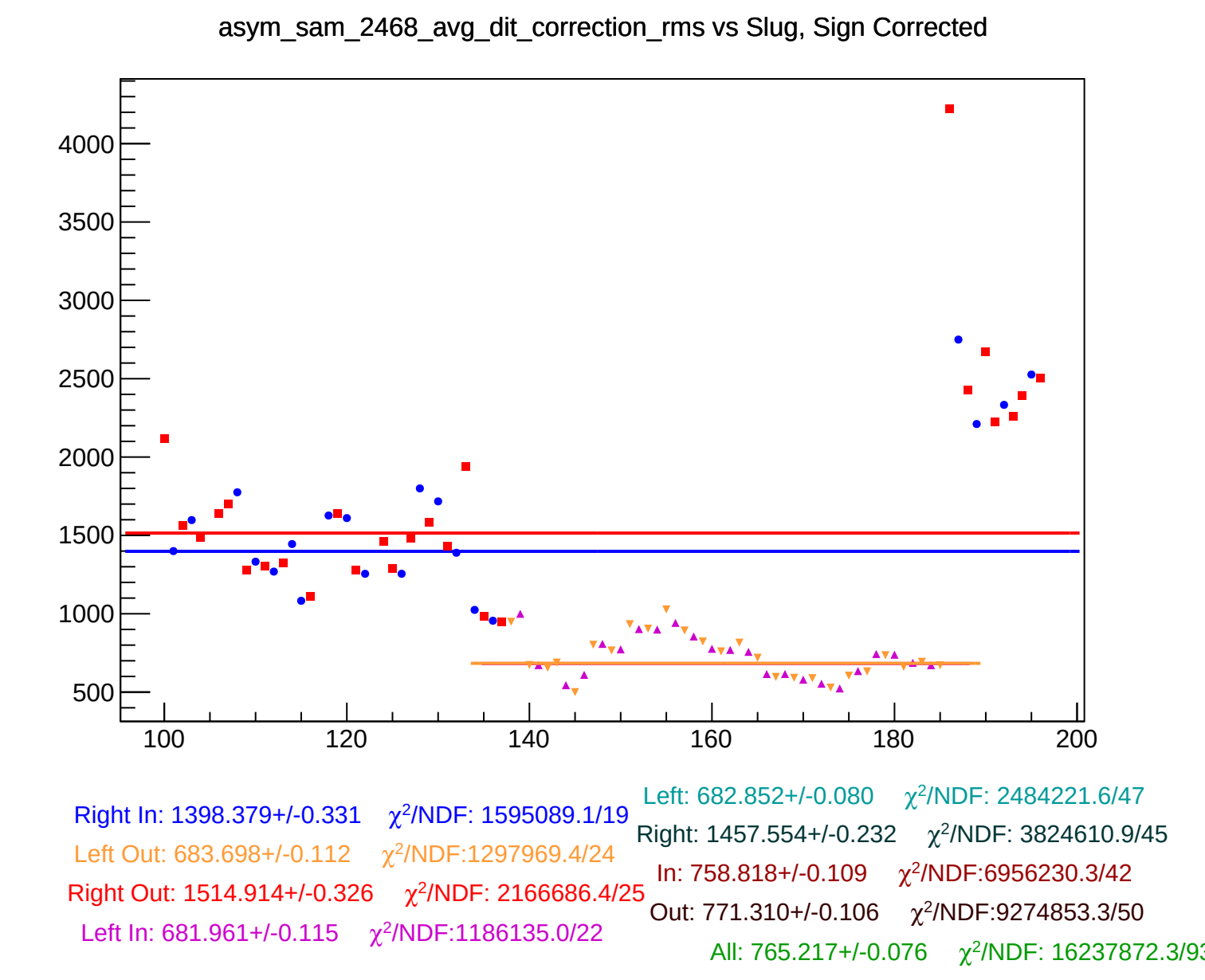
Right: 120.153+/-0.019 $\chi^2$/NDF: 4256525.0/45

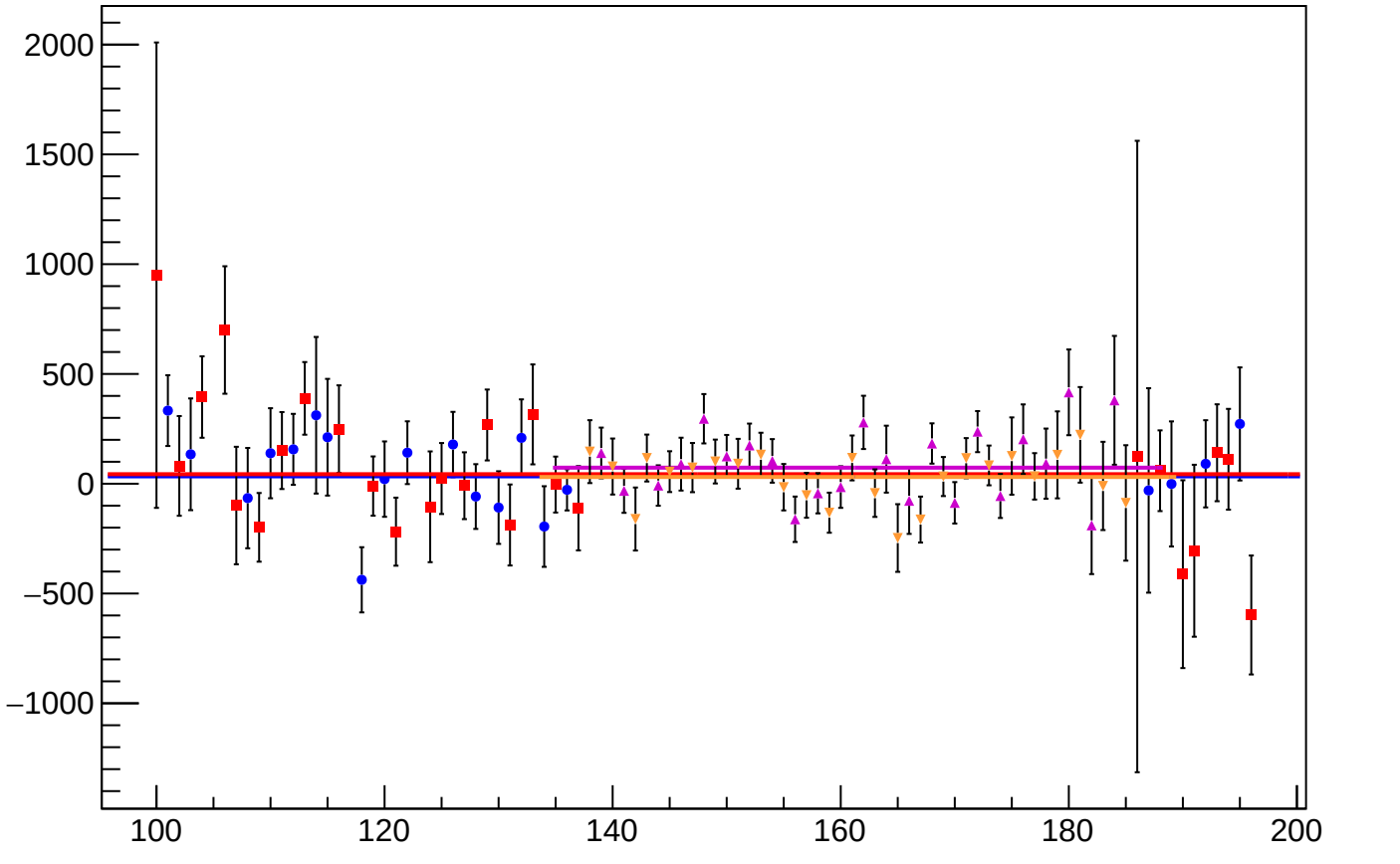
In: 102.178+/-0.014 $\chi^2$/NDF:3267695.2/42

Out: 103.762+/-0.014 $\chi^2$/NDF:5078462.8/50

All: 102.991+/-0.010 $\chi^2$/NDF: 8352476.0/93


asym_sam_2468_avg_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: -677.164+/-468.501 χ²/NDF: 20.4/19
Left Out: -783.756+/-158.329 χ²/NDF:66.3/24
Right Out: 1072.376+/-461.262 χ²/NDF: 19.3/25
Left In: 131.380+/-162.409 χ²/NDF:24.3/22
Left: -337.829+/-113.371 χ²/NDF: 106.9/47
Right: 211.227+/-328.691 χ²/NDF: 46.8/45
In: 44.640+/-153.451 χ²/NDF:47.4/42
Out: -588.114+/-149.752 χ²/NDF:100.1/50
All: -279.454+/-107.175 χ²/NDF: 156.2/93


asym_sam_2468_avg_dit_correction_rms vs Slug, Sign Corrected
4000
3500
3000
2500
2000
1500
1000
500
100
120
140
160
180
200
Right In: 1398.379+/-0.331 χ²/NDF: 1595089.1/19
Left Out: 683.698+/-0.112 χ²/NDF:1297969.4/24
Right Out: 1514.914+/-0.326 χ²/NDF: 2166686.4/25
Left In: 681.961+/-0.115 χ²/NDF:1186135.0/22
Left: 682.852+/-0.080 χ²/NDF: 2484221.6/47
Right: 1457.554+/-0.232 χ²/NDF: 3824610.9/45
In: 758.818+/-0.109 χ²/NDF:6956230.3/42
Out: 771.310+/-0.106 χ²/NDF:9274853.3/50
All: 765.217+/-0.076 χ²/NDF: 16237872.3/93




Right In: 33.602+/-39.346 $\chi^2$/NDF: 22.4/19

Left Out: 30.684+/-22.856 $\chi^2$/NDF:19.9/24

Right Out: 43.391+/-38.489 $\chi^2$/NDF: 35.0/25

Left In: 73.146+/-23.510 $\chi^2$/NDF:34.5/22

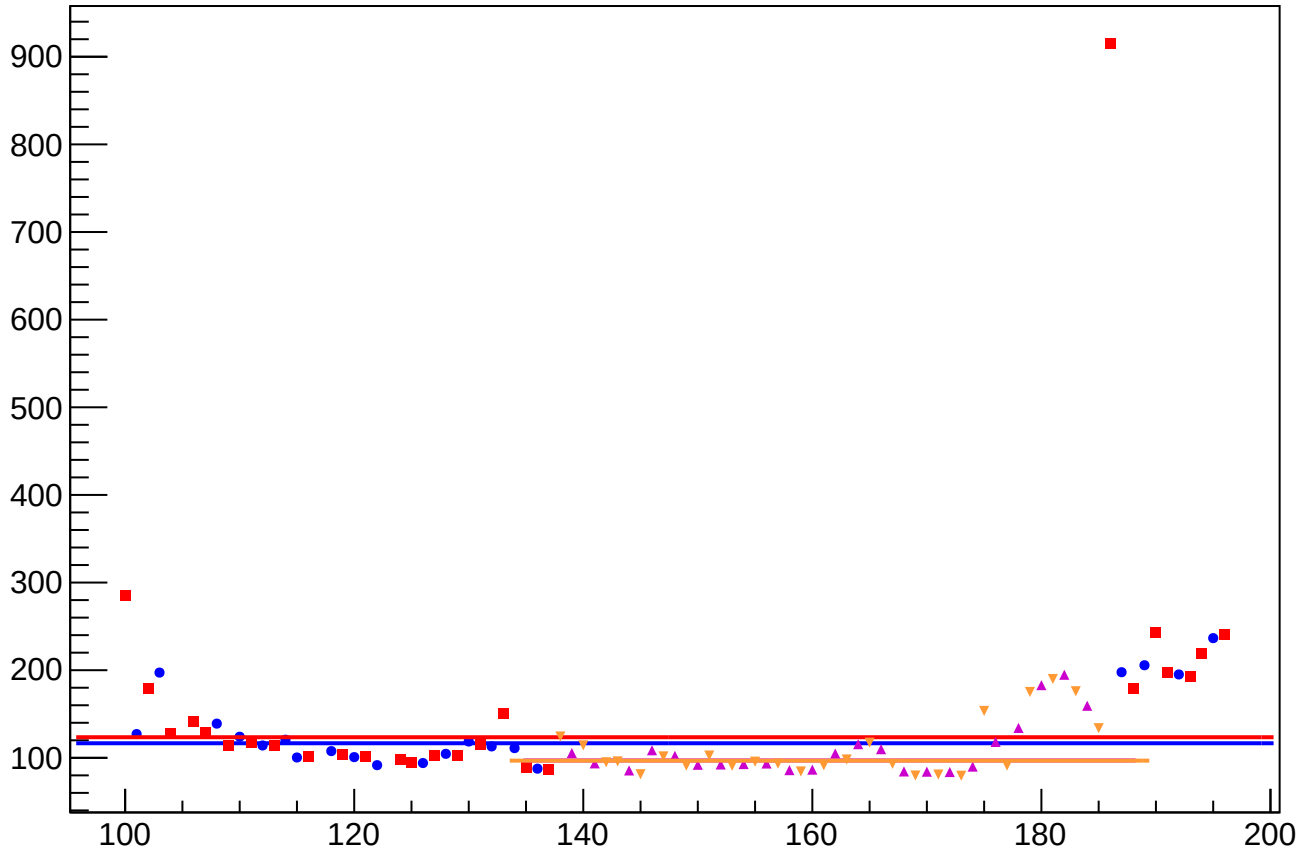
Left: 51.316+/-16.388 $\chi^2$/NDF: 56.1/47

Right: 38.605+/-27.514 $\chi^2$/NDF: 57.4/45

In: 62.742+/-20.182 $\chi^2$/NDF:57.6/42

Out: 33.997+/-19.652 $\chi^2$/NDF:55.0/50

All: 47.987+/-14.080 $\chi^2$/NDF: 113.7/93




Right In: 116.635+/-0.028 $\chi^2$/NDF: 1580083.7/19

Left Out: 96.795+/-0.016 $\chi^2$/NDF:1720415.9/24

Right Out: 123.519+/-0.027 $\chi^2$/NDF: 2645169.4/25

Left In: 97.017+/-0.017 $\chi^2$/NDF:1321171.2/22

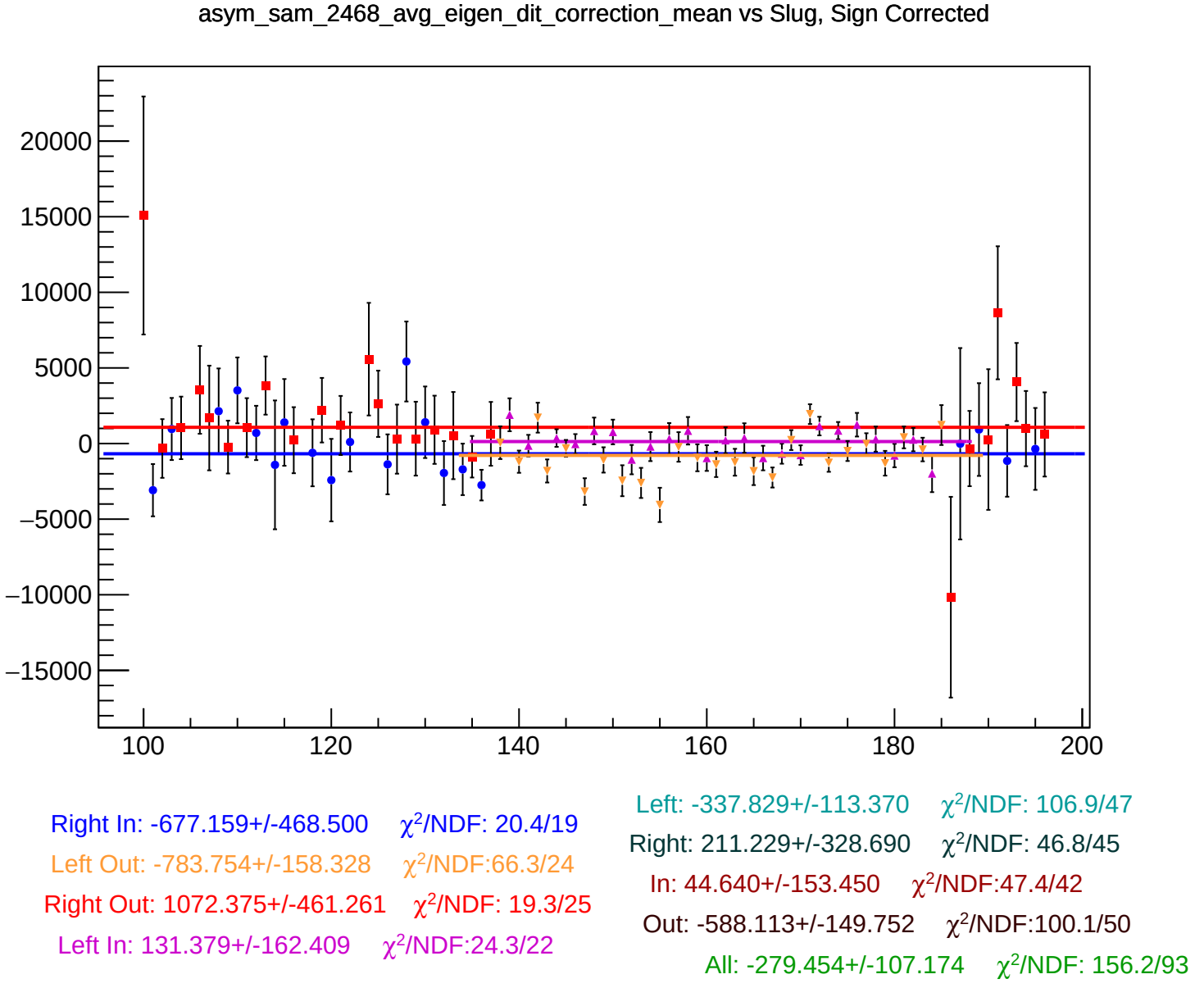
Left: 96.903+/-0.012 $\chi^2$/NDF: 3041679.0/47

Right: 120.153+/-0.019 $\chi^2$/NDF: 4256541.3/45

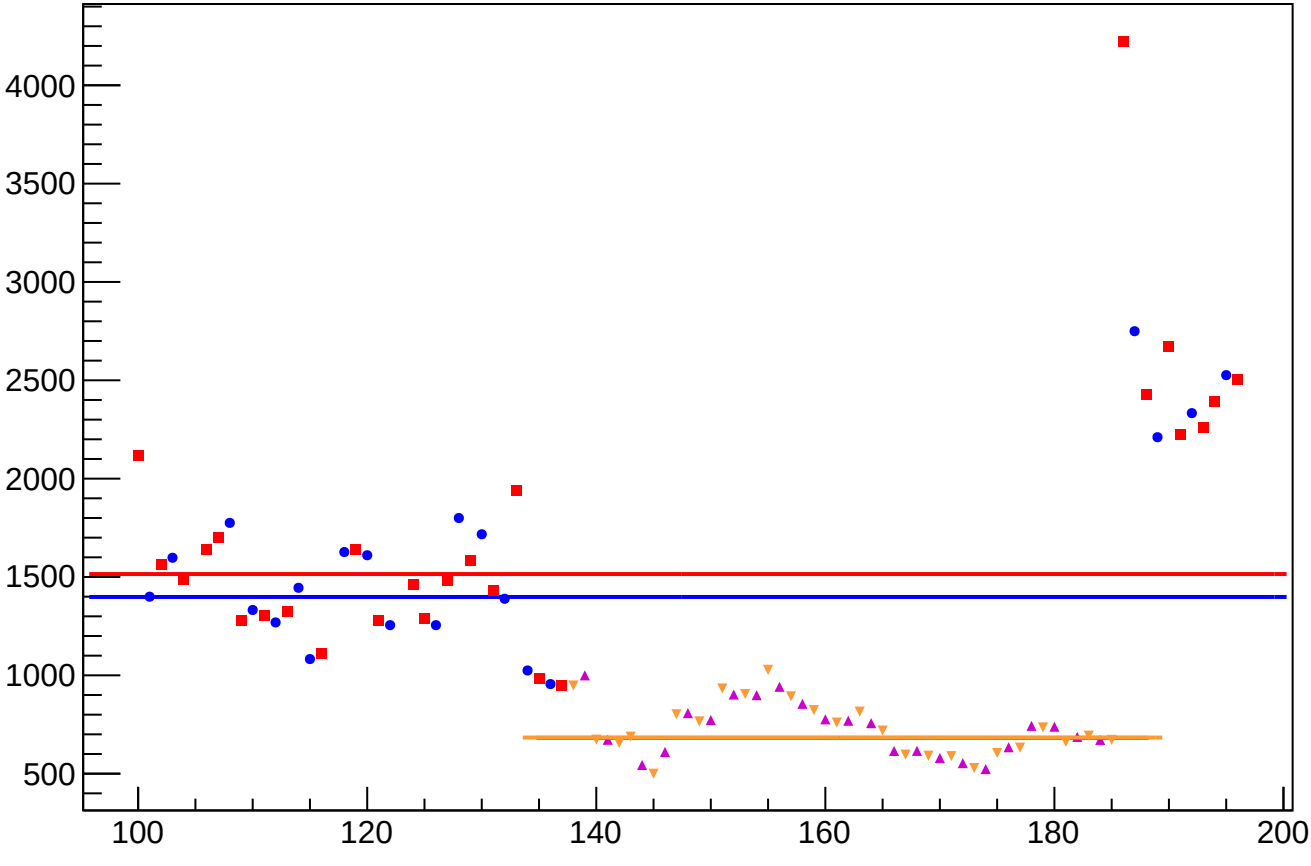
In: 102.178+/-0.014 $\chi^2$/NDF:3267641.0/42

Out: 103.762+/-0.014 $\chi^2$/NDF:5078429.0/50

All: 102.991+/-0.010 $\chi^2$/NDF: 8352388.3/93


asym_sam_2468_avg_eigen_dit_correction_mean vs Slug, Sign Corrected
20000
15000
10000
5000
0
−5000
−10000
−15000
100
120
140
160
180
200
Right In: -677.159+/-468.500 χ²/NDF: 20.4/19
Left Out: -783.754+/-158.328 χ²/NDF:66.3/24
Right Out: 1072.375+/-461.261 χ²/NDF: 19.3/25
Left In: 131.379+/-162.409 χ²/NDF:24.3/22
Left: -337.829+/-113.370 χ²/NDF: 106.9/47
Right: 211.229+/-328.690 χ²/NDF: 46.8/45
In: 44.640+/-153.450 χ²/NDF:47.4/42
Out: -588.113+/-149.752 χ²/NDF:100.1/50
All: -279.454+/-107.174 χ²/NDF: 156.2/93

asym_sam_2468_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 1398.376+/-0.331 $\chi^2$/NDF: 1595090.6/19

Left Out: 683.696+/-0.112 $\chi^2$/NDF:1297975.5/24

Right Out: 1514.911+/-0.326 $\chi^2$/NDF: 2166691.2/25

Left In: 681.960+/-0.115 $\chi^2$/NDF:1186136.6/22

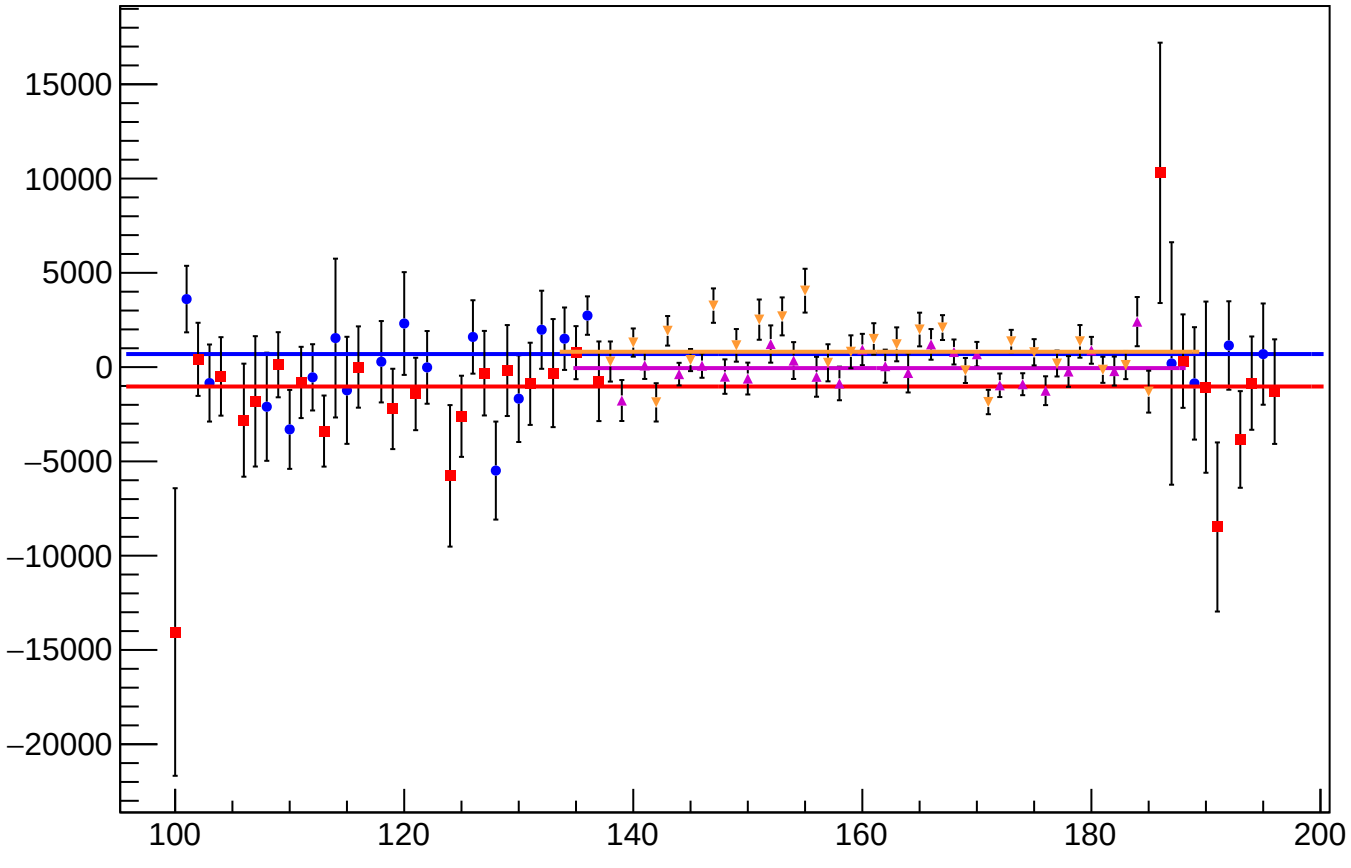
Left: 682.850+/-0.080 $\chi^2$/NDF: 2484229.4/47

Right: 1457.551+/-0.232 $\chi^2$/NDF: 3824616.9/45

In: 758.817+/-0.109 $\chi^2$/NDF:6956233.2/42

Out: 771.309+/-0.106 $\chi^2$/NDF:9274862.5/50

All: 765.215+/-0.076 $\chi^2$/NDF: 16237884.3/93




Right In: 692.580+/-463.627 $\chi^2$/NDF: 21.3/19

Left Out: 814.067+/-159.256 $\chi^2$/NDF:65.8/24

Right Out: -1028.748+/-458.398 $\chi^2$/NDF: 17.6/25

Left In: -52.290+/-163.036 $\chi^2$/NDF:25.4/22

Left: 391.048+/-113.924 $\chi^2$/NDF: 105.6/47

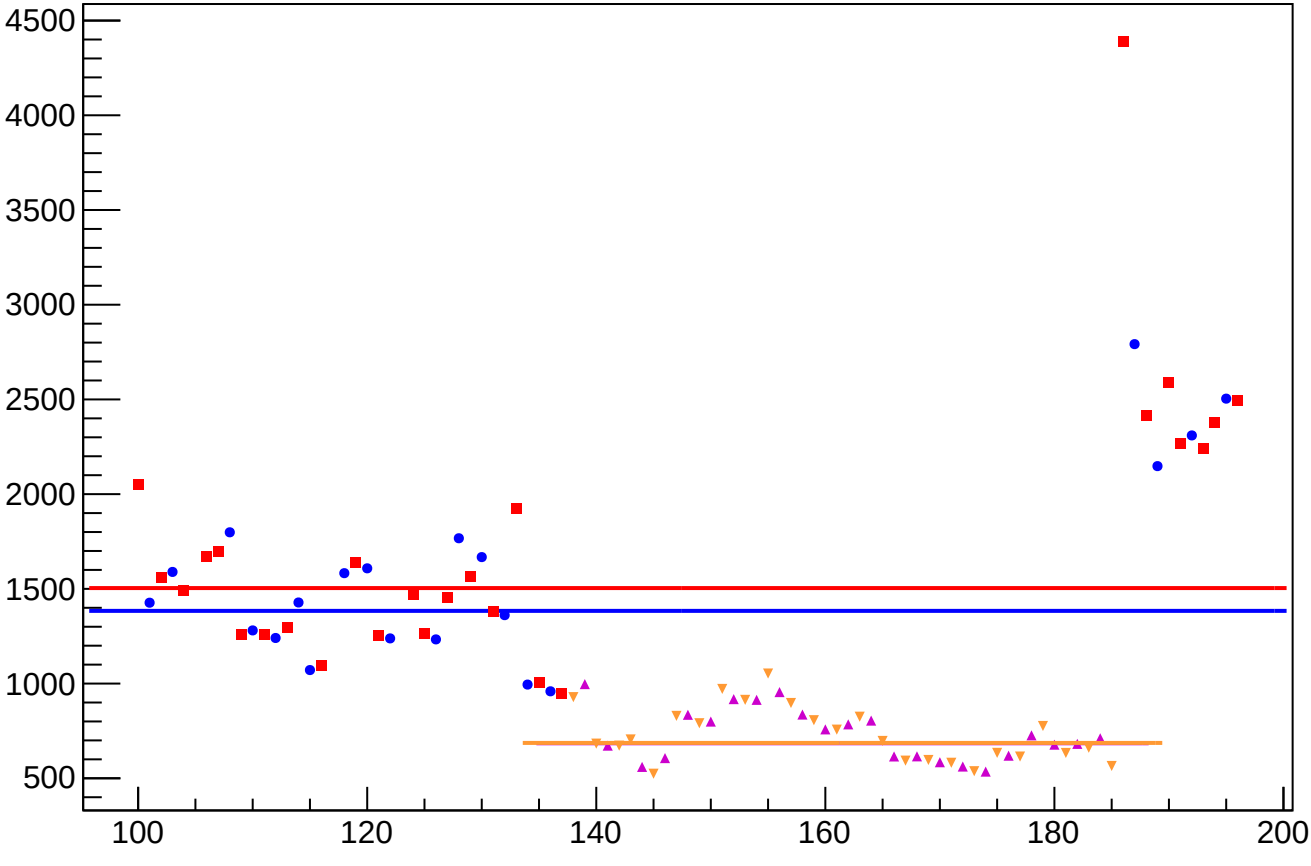
Right: -177.846+/-325.969 $\chi^2$/NDF: 45.8/45

In: 29.684+/-153.803 $\chi^2$/NDF:49.0/42

Out: 615.595+/-150.436 $\chi^2$/NDF:97.8/50

All: 329.124+/-107.545 $\chi^2$/NDF: 154.2/93

# asym_sam_2468_avg_rms vs Slug, Sign Corrected




Right In: 1383.772+/-0.328 $\chi^2$/NDF: 1578965.4/19

Left Out: 686.700+/-0.113 $\chi^2$/NDF:1312231.8/24

Right Out: 1504.144+/-0.324 $\chi^2$/NDF: 2163193.8/25

Left In: 684.763+/-0.115 $\chi^2$/NDF:1165205.5/22

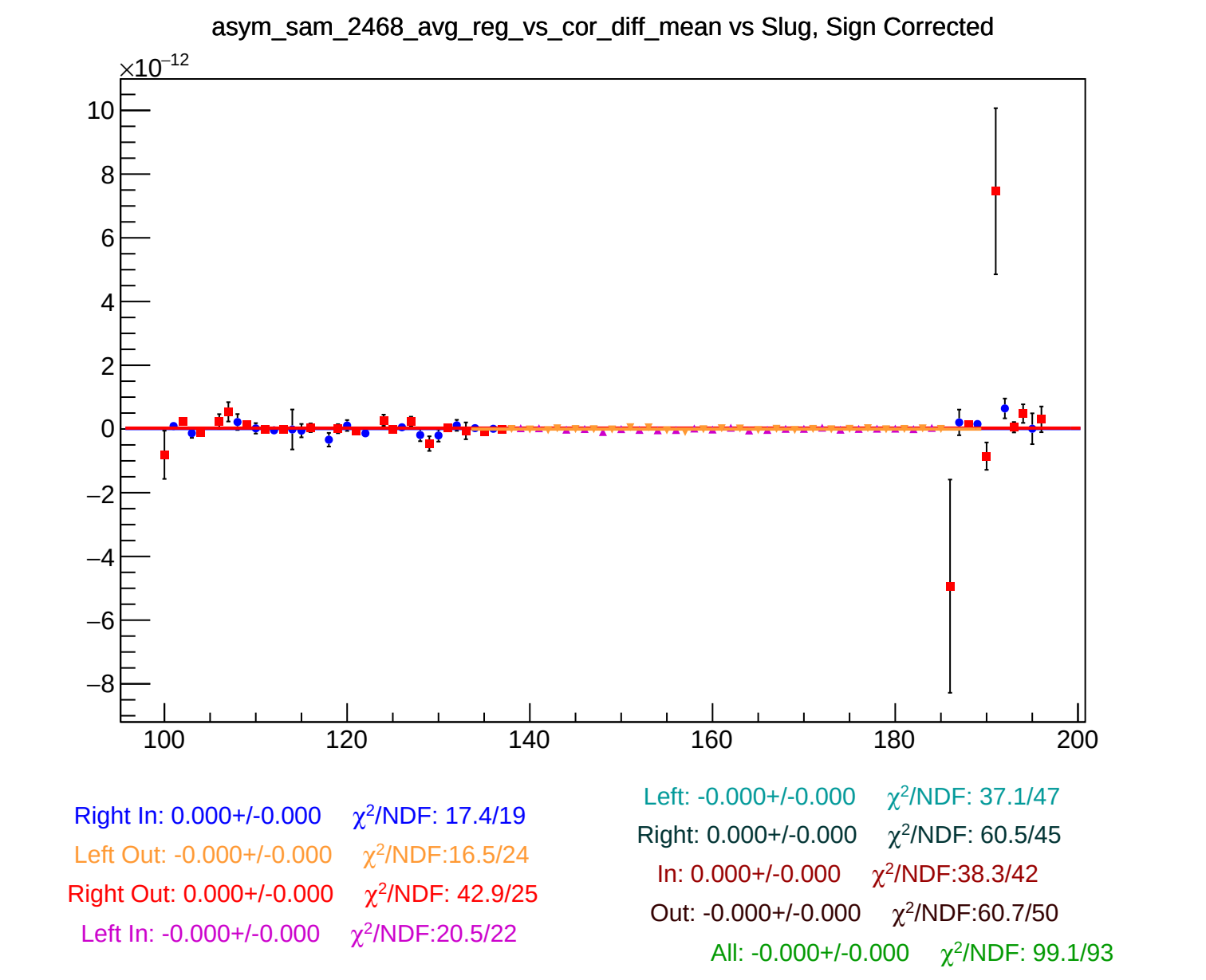
Left: 685.754+/-0.081 $\chi^2$/NDF: 2477581.6/47

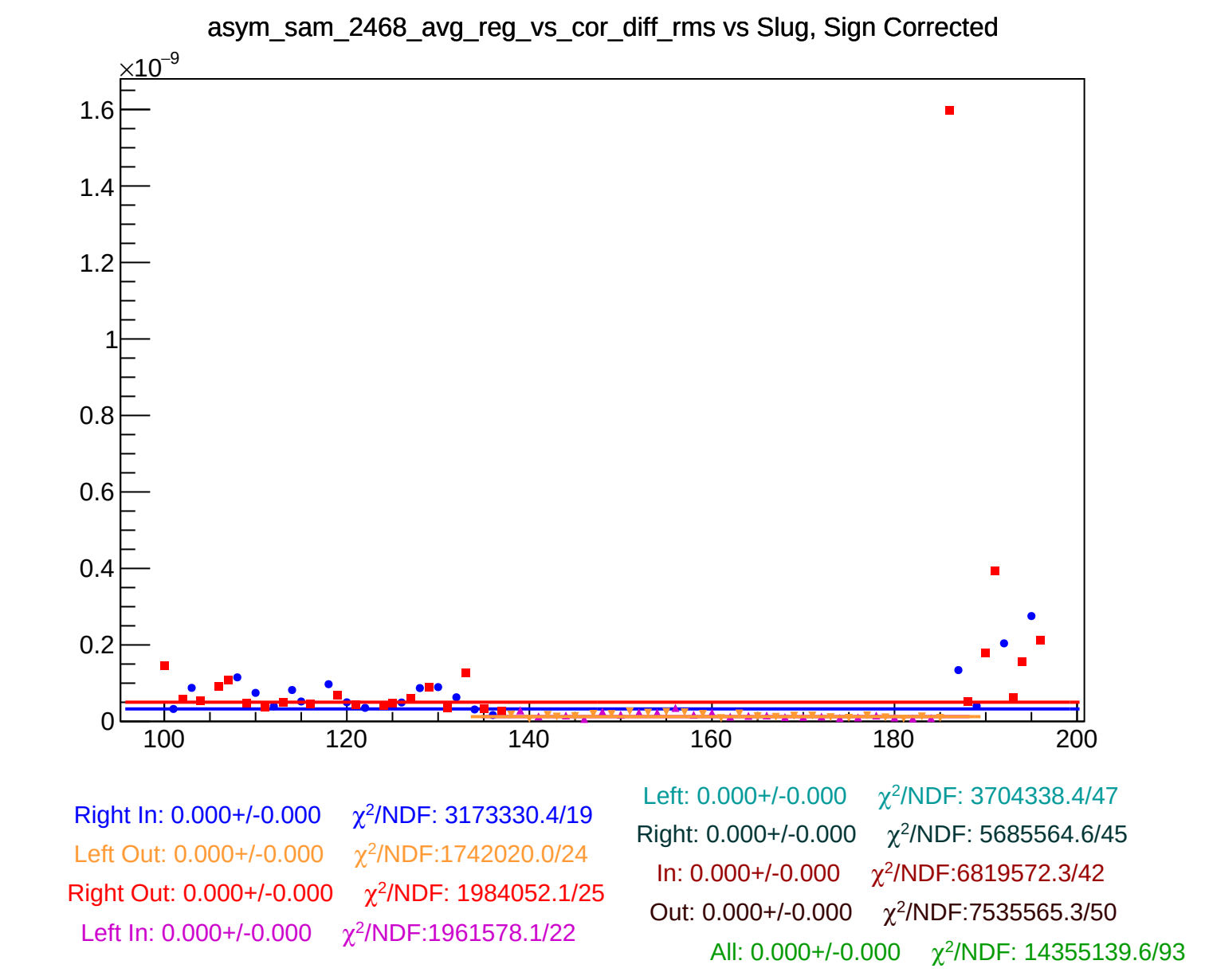
Right: 1444.641+/-0.230 $\chi^2$/NDF: 3810331.9/45

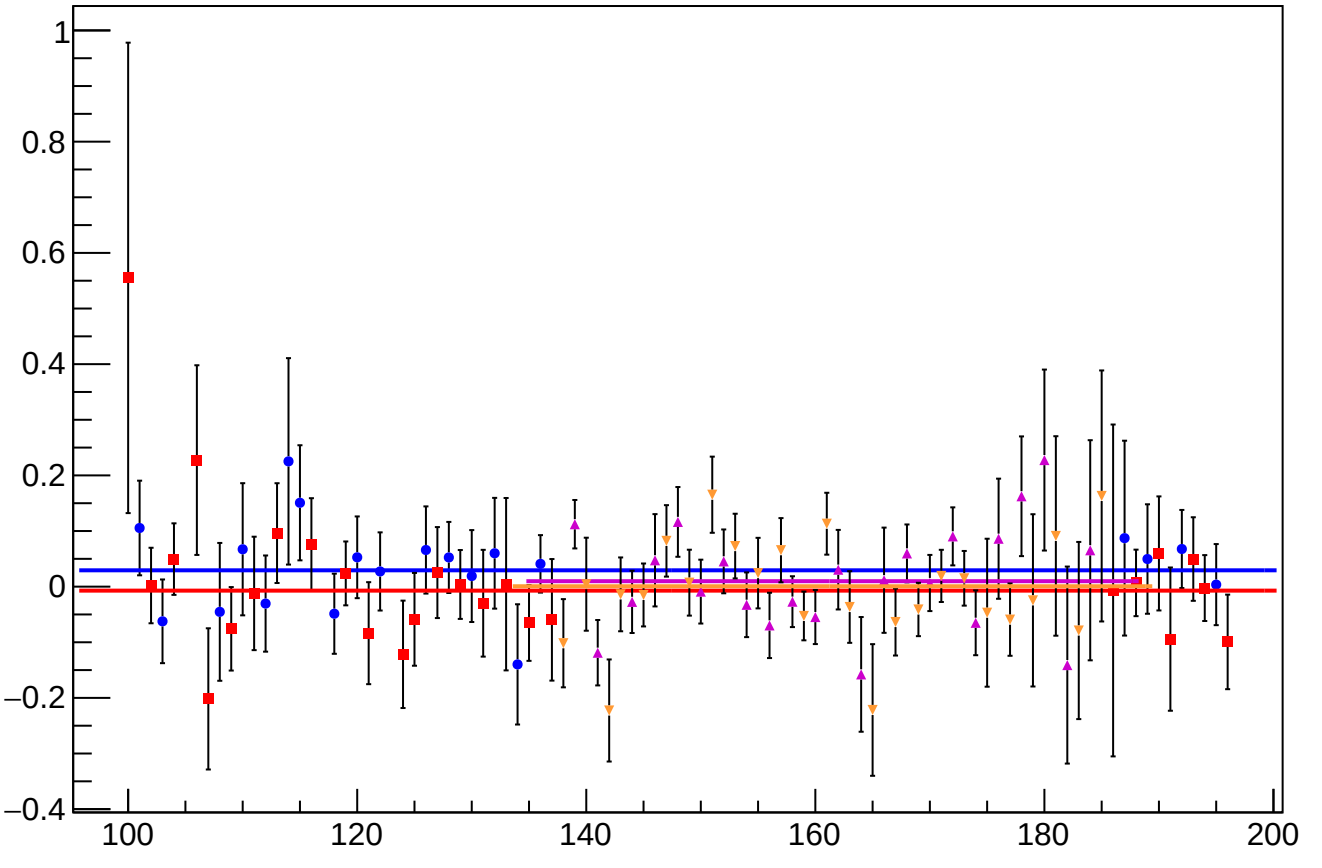
In: 761.690+/-0.109 $\chi^2$/NDF:6790146.9/42

Out: 774.739+/-0.106 $\chi^2$/NDF:9150506.3/50

All: 768.359+/-0.076 $\chi^2$/NDF: 15948010.8/93


asym_sam_2468_avg_reg_vs_cor_diff_mean vs Slug, Sign Corrected
×10^−12
10
8
6
4
2
0
−2
−4
−6
−8
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 17.4/19
Left Out: -0.000+/-0.000 χ²/NDF:16.5/24
Right Out: 0.000+/-0.000 χ²/NDF: 42.9/25
Left In: -0.000+/-0.000 χ²/NDF:20.5/22
Left: -0.000+/-0.000 χ²/NDF: 37.1/47
Right: 0.000+/-0.000 χ²/NDF: 60.5/45
In: 0.000+/-0.000 χ²/NDF:38.3/42
Out: -0.000+/-0.000 χ²/NDF:60.7/50
All: -0.000+/-0.000 χ²/NDF: 99.1/93


asym_sam_2468_avg_reg_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 3173330.4/19
Left Out: 0.000+/-0.000 χ²/NDF:1742020.0/24
Right Out: 0.000+/-0.000 χ²/NDF: 1984052.1/25
Left In: 0.000+/-0.000 χ²/NDF:1961578.1/22
Left: 0.000+/-0.000 χ²/NDF: 3704338.4/47
Right: 0.000+/-0.000 χ²/NDF: 5685564.6/45
In: 0.000+/-0.000 χ²/NDF:6819572.3/42
Out: 0.000+/-0.000 χ²/NDF:7535565.3/50
All: 0.000+/-0.000 χ²/NDF: 14355139.6/93




Right In: 0.029+/-0.018 $\chi^2$/NDF: 10.5/19

Left Out: 0.001+/-0.013 $\chi^2$/NDF:31.7/24

Right Out: -0.007+/-0.016 $\chi^2$/NDF: 16.6/25

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.9/22

Left: 0.005+/-0.009 $\chi^2$/NDF: 63.8/47

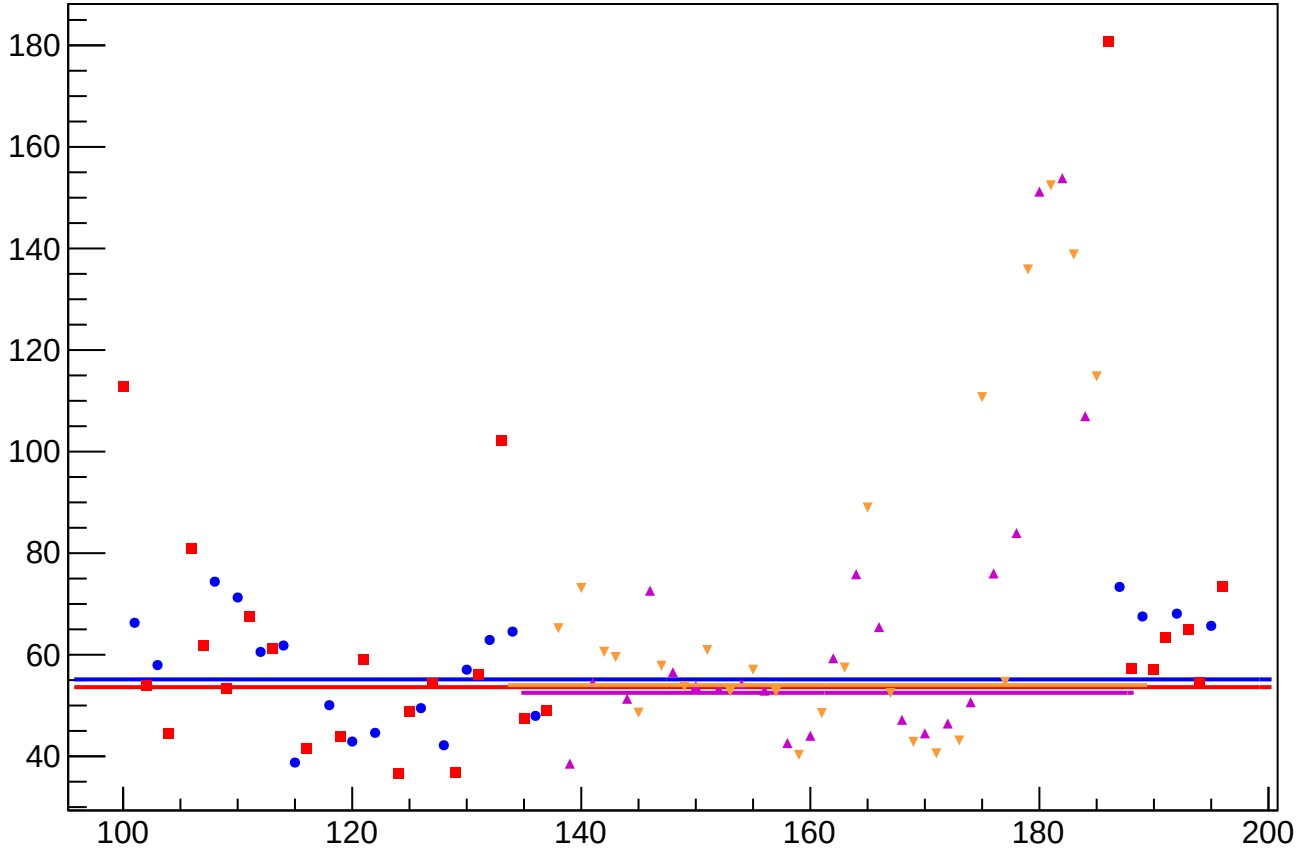
Right: 0.009+/-0.012 $\chi^2$/NDF: 29.3/45

In: 0.016+/-0.011 $\chi^2$/NDF:43.2/42

Out: -0.002+/-0.010 $\chi^2$/NDF:48.5/50

All: 0.007+/-0.007 $\chi^2$/NDF: 93.2/93

asym_sam_2468_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.148+/-0.013 $\chi^2$/NDF: 616072.2/19

Left Out: 54.014+/-0.009 $\chi^2$/NDF:3227550.5/24

Right Out: 53.617+/-0.012 $\chi^2$/NDF: 1270410.5/25

Left In: 52.502+/-0.009 $\chi^2$/NDF:2557763.5/22

Left: 53.257+/-0.007 $\chi^2$/NDF: 5798378.9/47

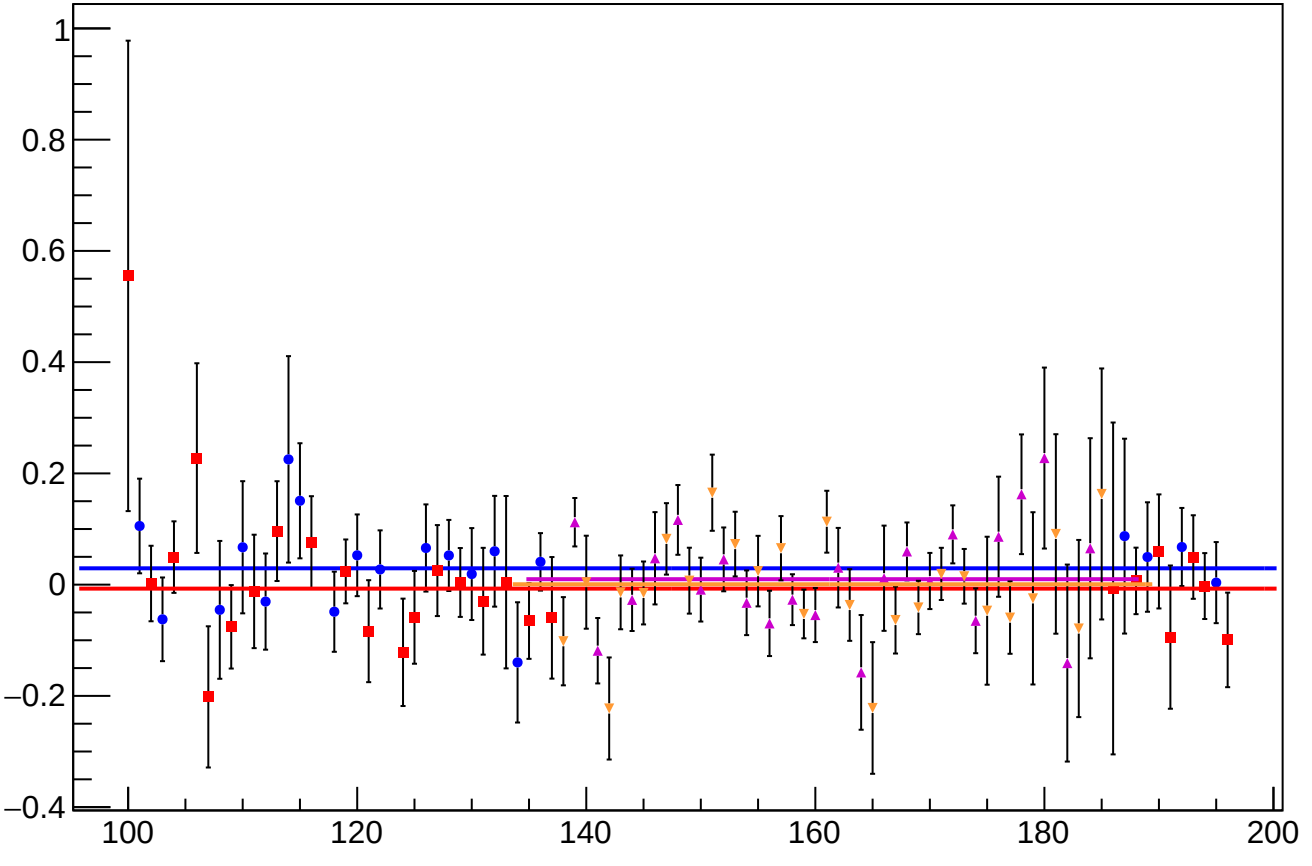
Right: 54.295+/-0.009 $\chi^2$/NDF: 1894133.7/45

In: 53.398+/-0.008 $\chi^2$/NDF:3200970.7/42

Out: 53.858+/-0.007 $\chi^2$/NDF:4498667.0/50

All: 53.638+/-0.005 $\chi^2$/NDF: 7701545.0/93

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.029+/-0.018 $\chi^2$/NDF: 10.5/19

Left Out: 0.001+/-0.013 $\chi^2$/NDF:31.7/24

Right Out: -0.007+/-0.016 $\chi^2$/NDF: 16.6/25

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.9/22

Left: 0.005+/-0.009 $\chi^2$/NDF: 63.8/47

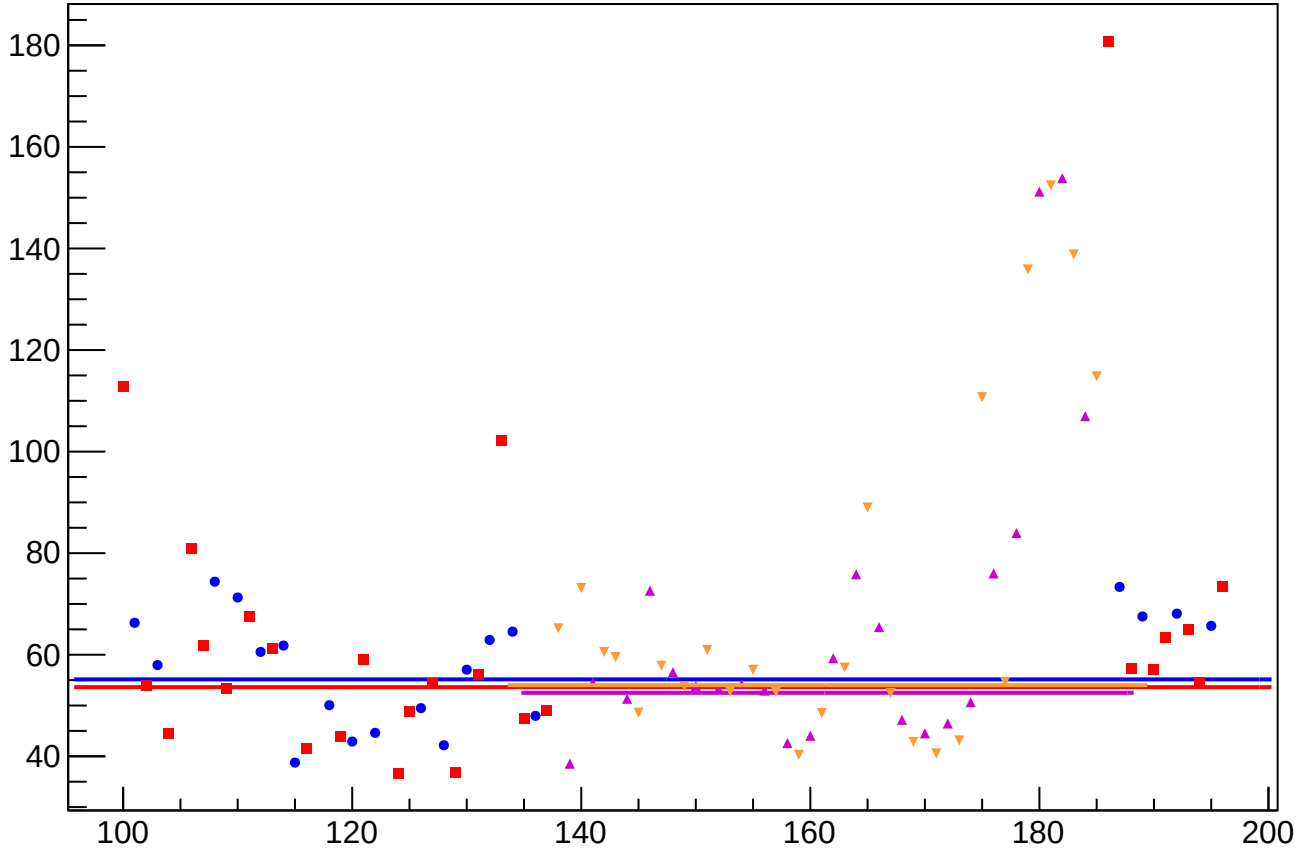
Right: 0.009+/-0.012 $\chi^2$/NDF: 29.3/45

In: 0.016+/-0.011 $\chi^2$/NDF:43.2/42

Out: -0.002+/-0.010 $\chi^2$/NDF:48.5/50

All: 0.007+/-0.007 $\chi^2$/NDF: 93.2/93

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.148+/-0.013 $\chi^2$/NDF: 616072.2/19

Left Out: 54.014+/-0.009 $\chi^2$/NDF:3227550.5/24

Right Out: 53.617+/-0.012 $\chi^2$/NDF: 1270410.5/25

Left In: 52.502+/-0.009 $\chi^2$/NDF:2557763.5/22

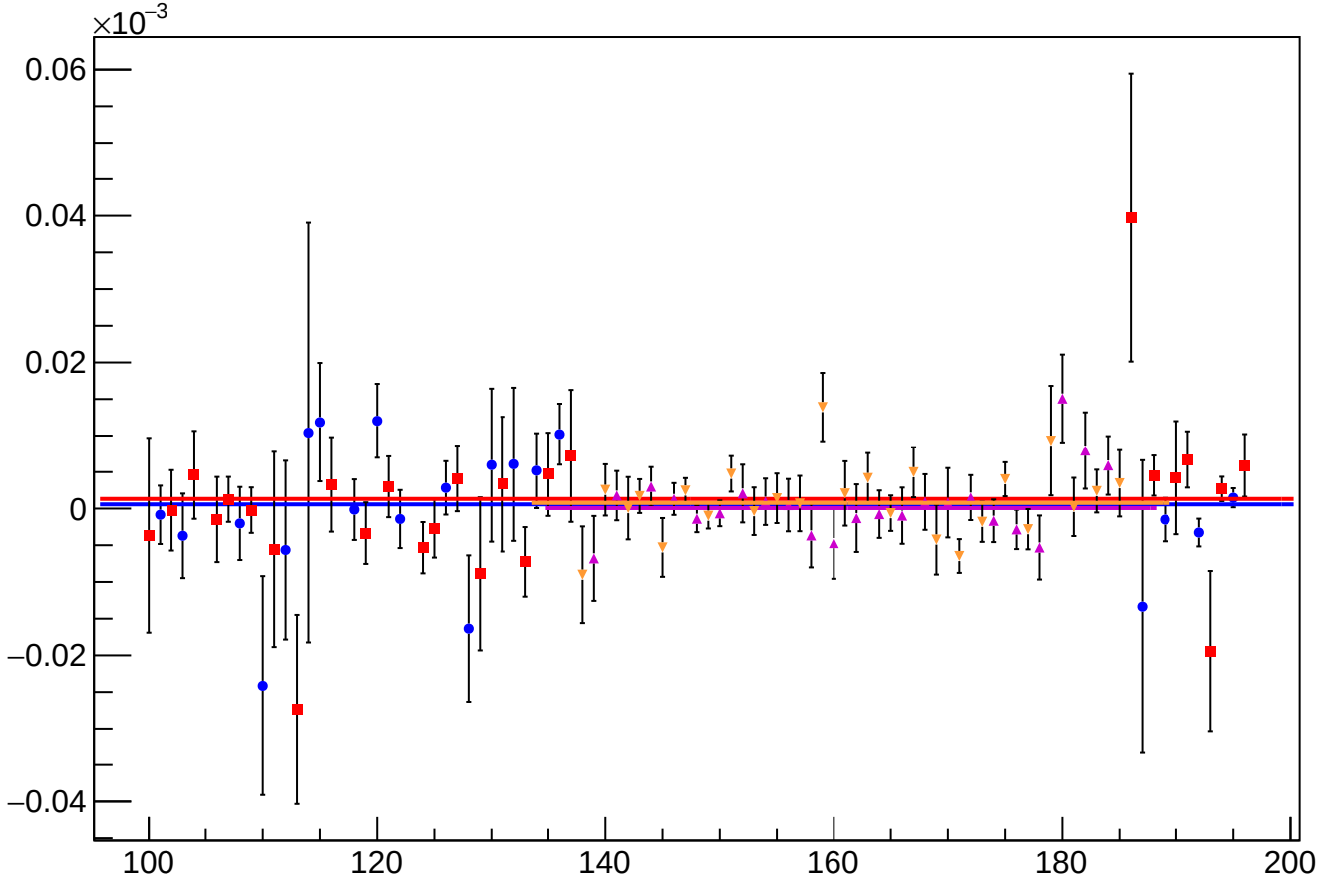
Left: 53.257+/-0.007 $\chi^2$/NDF: 5798378.9/47

Right: 54.295+/-0.009 $\chi^2$/NDF: 1894133.7/45

In: 53.398+/-0.008 $\chi^2$/NDF:3200970.7/42

Out: 53.858+/-0.007 $\chi^2$/NDF:4498667.0/50

All: 53.638+/-0.005 $\chi^2$/NDF: 7701545.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 26.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:38.1/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 30.5/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:20.2/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 58.9/47

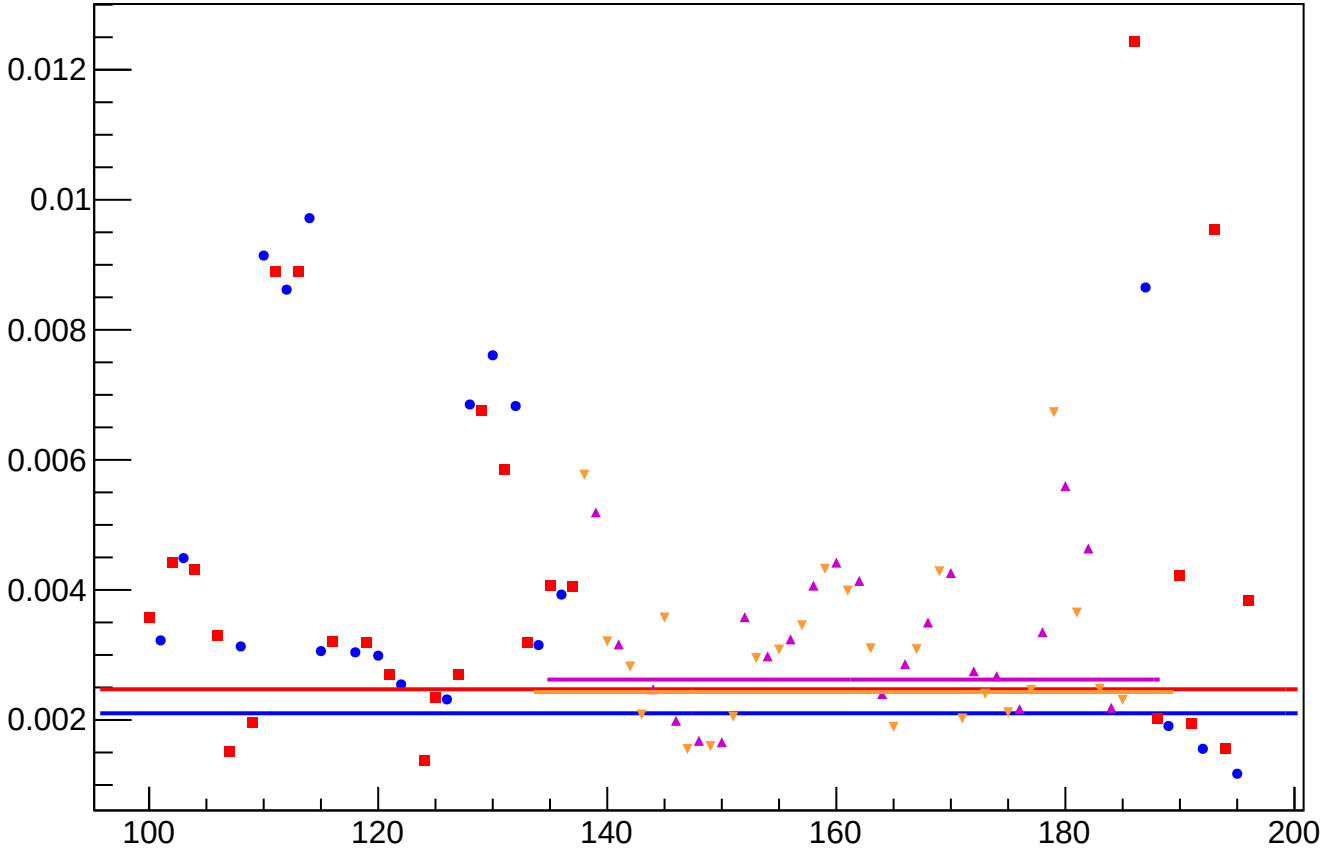
Right: 0.000+/-0.000 $\chi^2$/NDF: 57.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:47.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:68.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 117.2/93

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 5248061.6/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:4218362.5/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5213004.4/25

Left In: 0.003+/-0.000 $\chi^2$/NDF:3955310.5/22

Left: 0.003+/-0.000 $\chi^2$/NDF: 8267035.6/47

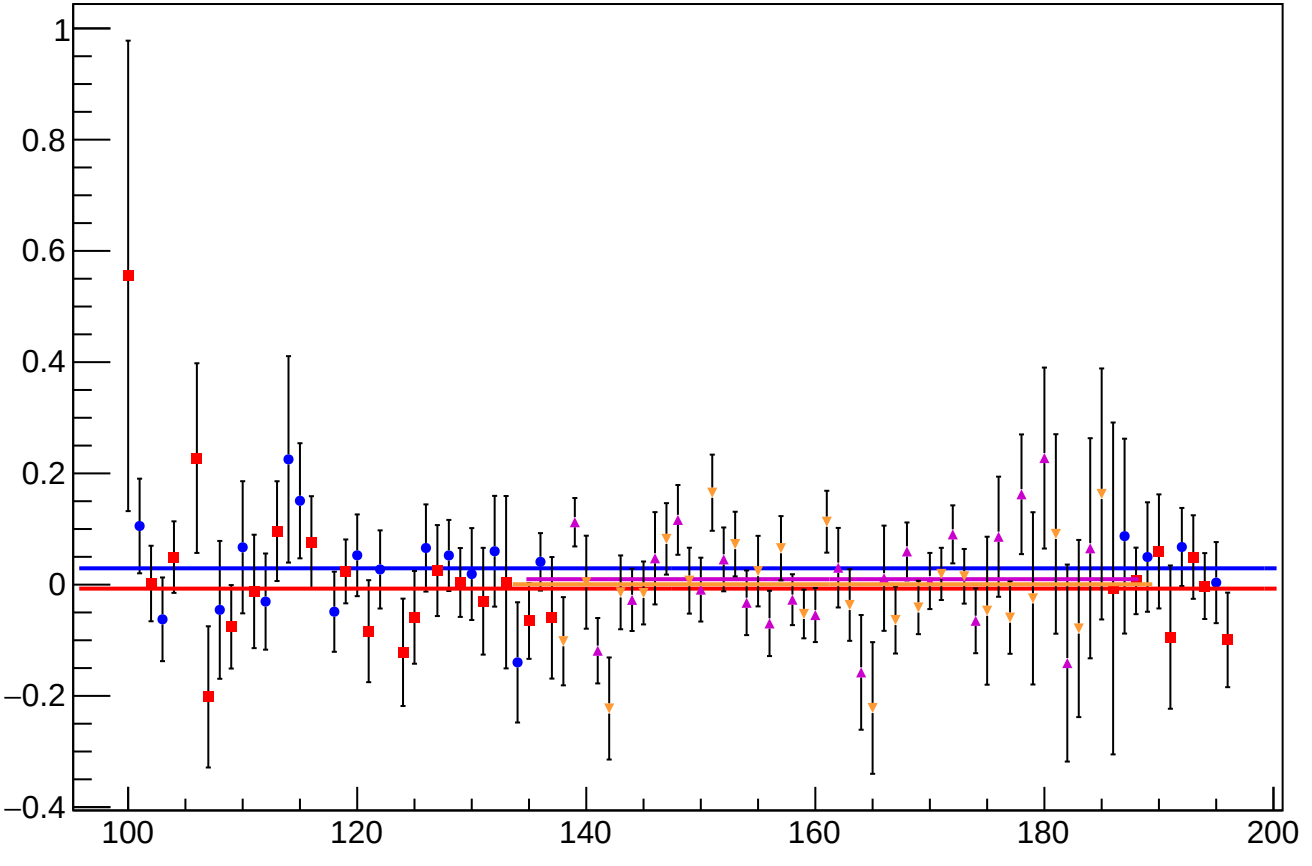
Right: 0.002+/-0.000 $\chi^2$/NDF: 10658779.6/45

In: 0.002+/-0.000 $\chi^2$/NDF:9691077.4/42

Out: 0.002+/-0.000 $\chi^2$/NDF:9434750.4/50

All: 0.002+/-0.000 $\chi^2$/NDF: 19128919.0/93

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.029+/-0.018 $\chi^2$/NDF: 10.5/19

Left Out: 0.001+/-0.013 $\chi^2$/NDF:31.7/24

Right Out: -0.007+/-0.016 $\chi^2$/NDF: 16.6/25

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.9/22

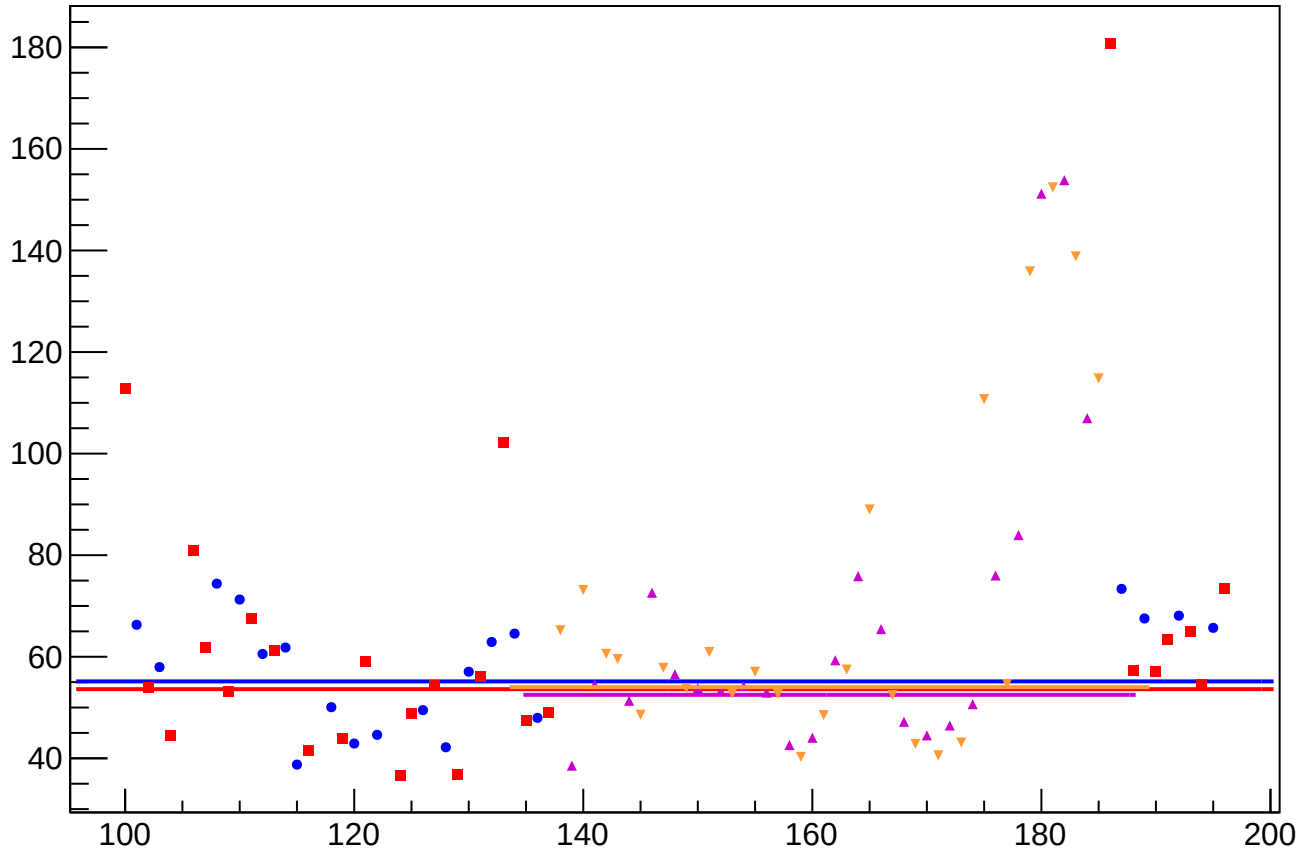
Left: 0.005+/-0.009 $\chi^2$/NDF: 63.8/47

Right: 0.009+/-0.012 $\chi^2$/NDF: 29.3/45

In: 0.016+/-0.011 $\chi^2$/NDF:43.2/42

Out: -0.002+/-0.010 $\chi^2$/NDF:48.5/50

All: 0.007+/-0.007 $\chi^2$/NDF: 93.2/93




Right In: 55.147+/-0.013 $\chi^2$/NDF: 616052.4/19

Left Out: 54.014+/-0.009 $\chi^2$/NDF:3227569.4/24

Right Out: 53.616+/-0.012 $\chi^2$/NDF: 1270437.2/25

Left In: 52.502+/-0.009 $\chi^2$/NDF:2557805.6/22

Left: 53.257+/-0.007 $\chi^2$/NDF: 5798440.6/47

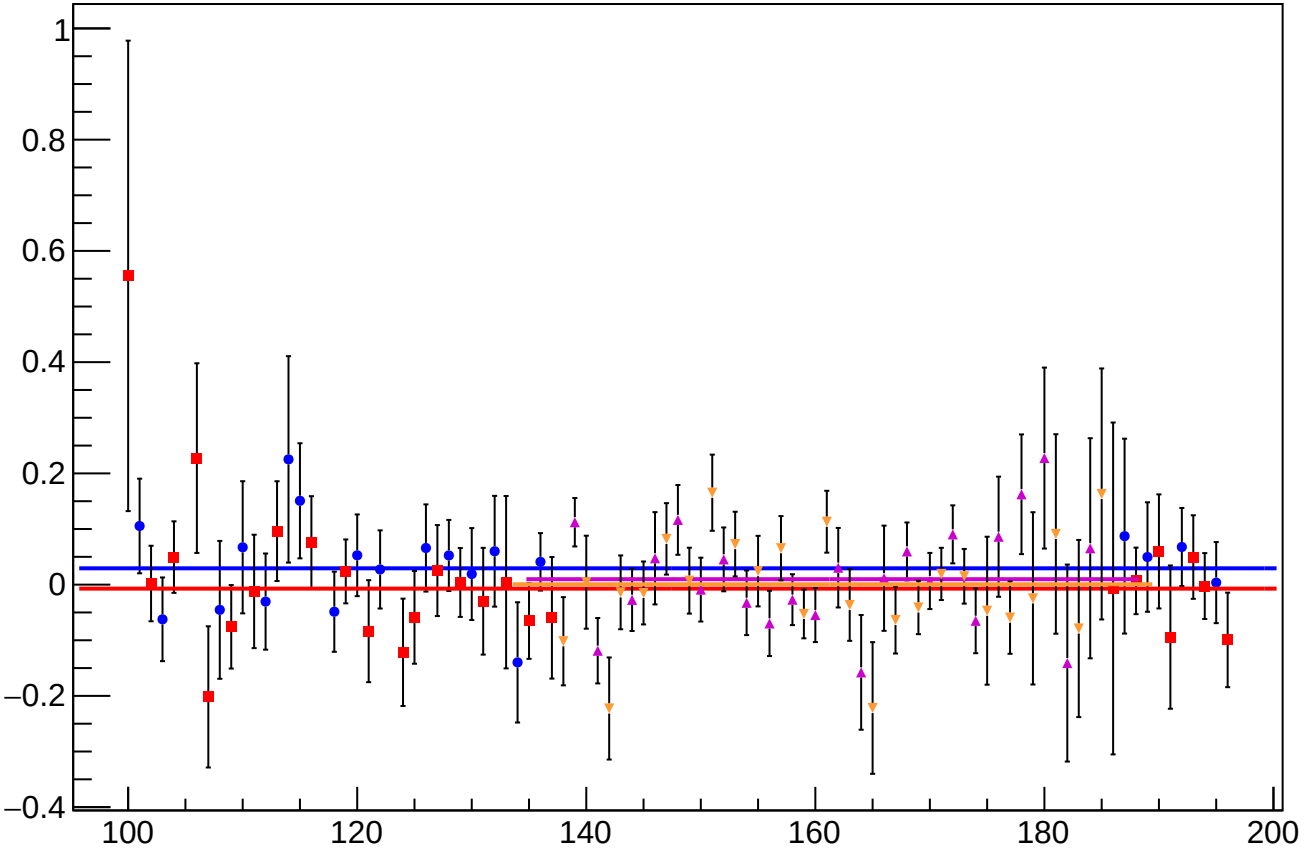
Right: 54.294+/-0.009 $\chi^2$/NDF: 1894139.3/45

In: 53.398+/-0.008 $\chi^2$/NDF:3200965.7/42

Out: 53.858+/-0.007 $\chi^2$/NDF:4498716.9/50

All: 53.638+/-0.005 $\chi^2$/NDF: 7701589.9/93

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.029+/-0.018 $\chi^2$/NDF: 10.5/19

Left Out: 0.001+/-0.013 $\chi^2$/NDF:31.7/24

Right Out: -0.007+/-0.016 $\chi^2$/NDF: 16.6/25

Left In: 0.010+/-0.013 $\chi^2$/NDF:31.9/22

Left: 0.005+/-0.009 $\chi^2$/NDF: 63.8/47

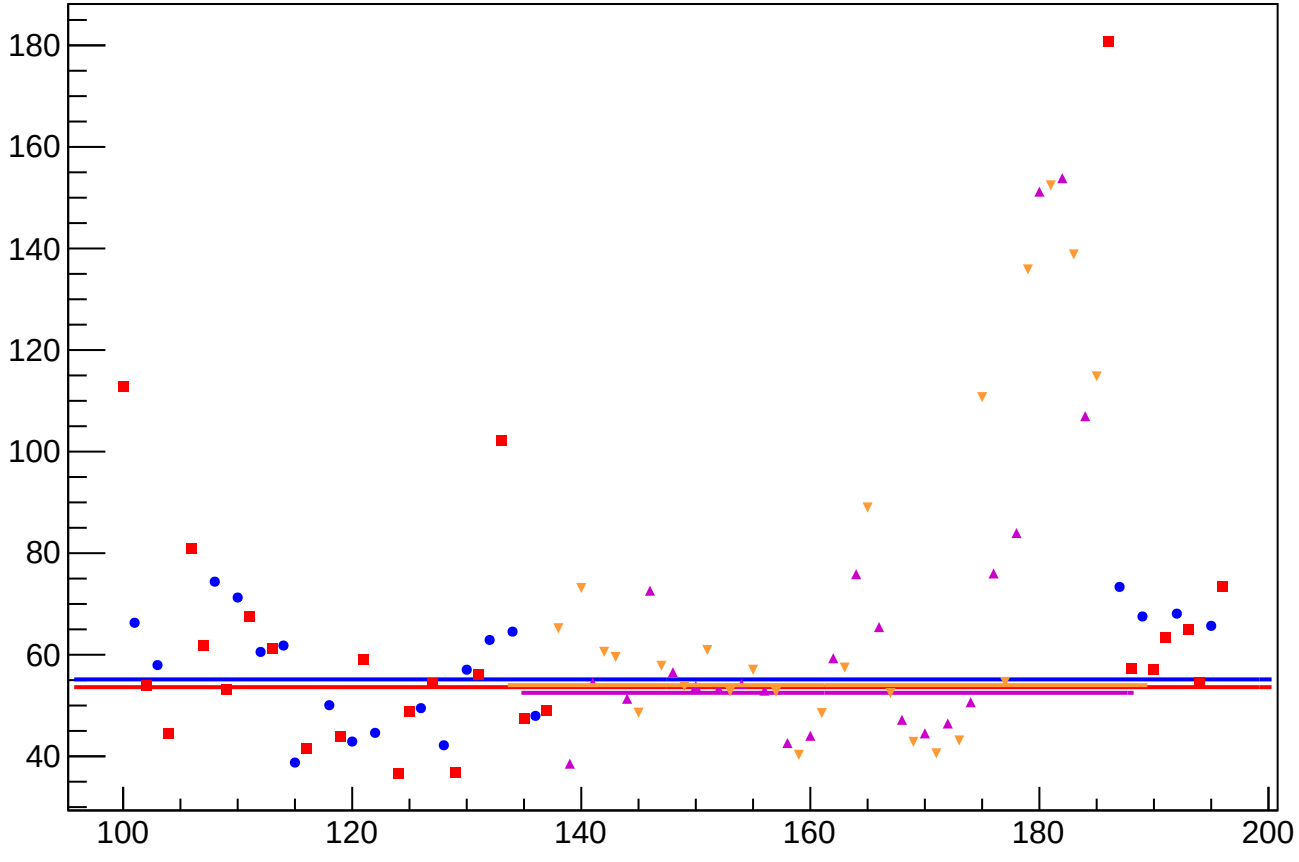
Right: 0.009+/-0.012 $\chi^2$/NDF: 29.3/45

In: 0.016+/-0.011 $\chi^2$/NDF:43.2/42

Out: -0.002+/-0.010 $\chi^2$/NDF:48.5/50

All: 0.007+/-0.007 $\chi^2$/NDF: 93.2/93

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 55.147+/-0.013 $\chi^2$/NDF: 616052.4/19

Left Out: 54.014+/-0.009 $\chi^2$/NDF:3227569.4/24

Right Out: 53.616+/-0.012 $\chi^2$/NDF: 1270437.2/25

Left In: 52.502+/-0.009 $\chi^2$/NDF:2557805.6/22

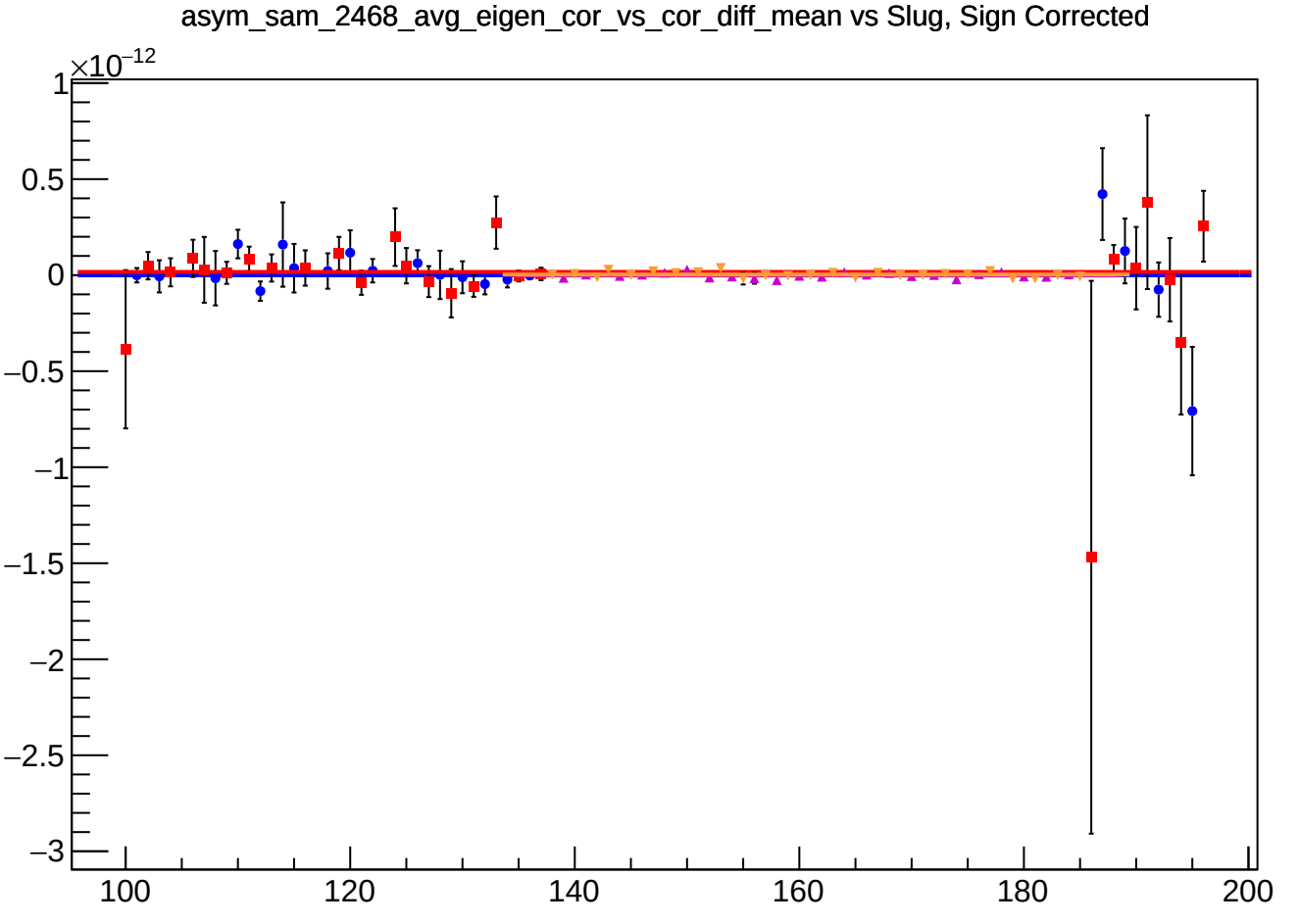
Left: 53.257+/-0.007 $\chi^2$/NDF: 5798440.6/47

Right: 54.294+/-0.009 $\chi^2$/NDF: 1894139.3/45

In: 53.398+/-0.008 $\chi^2$/NDF:3200965.7/42

Out: 53.858+/-0.007 $\chi^2$/NDF:4498716.9/50

All: 53.638+/-0.005 $\chi^2$/NDF: 7701589.9/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 19.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 19.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:15.3/22

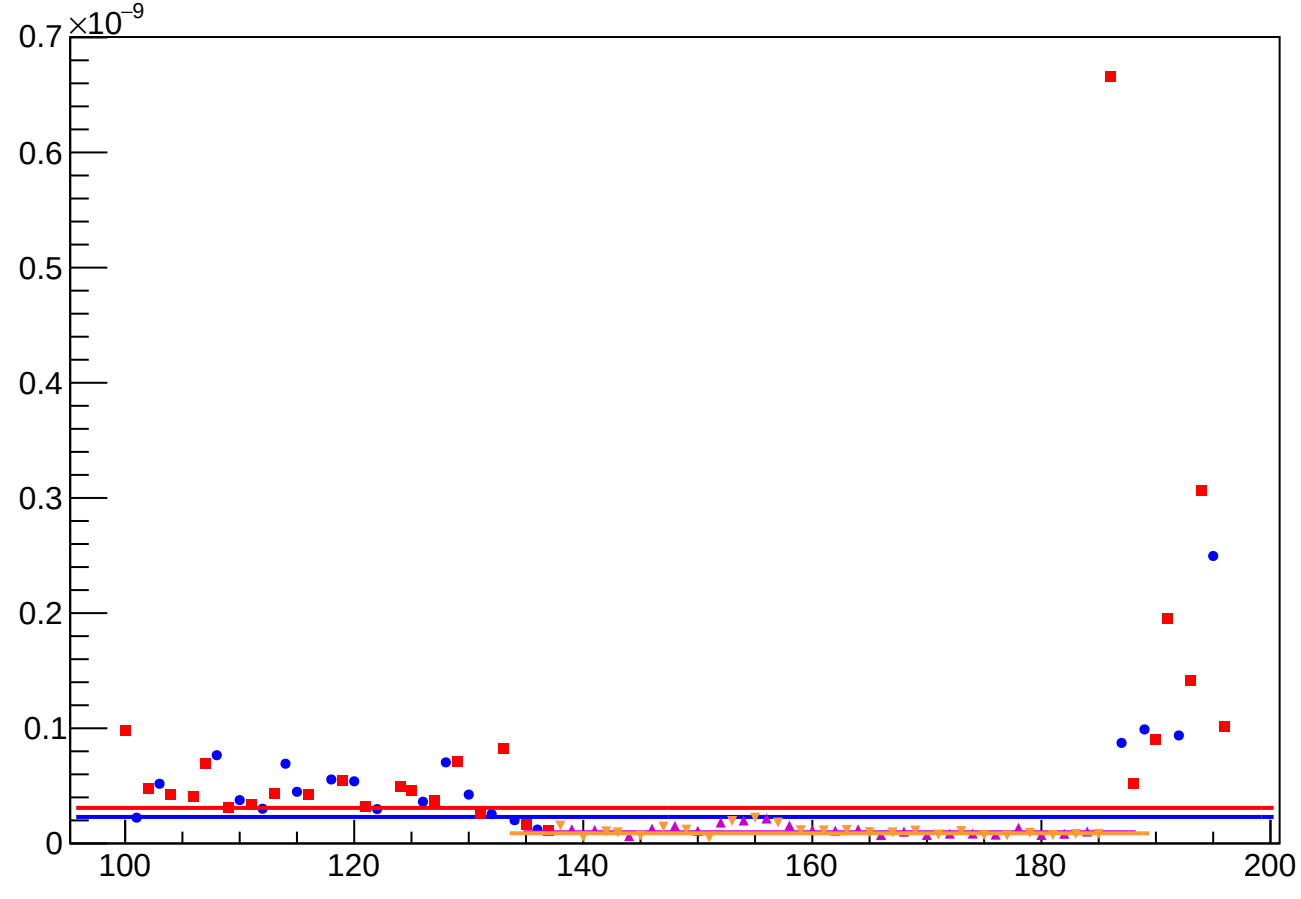
Left: 0.000+/-0.000 $\chi^2$/NDF: 38.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 39.7/45

In: -0.000+/-0.000 $\chi^2$/NDF:35.0/42

Out: 0.000+/-0.000 $\chi^2$/NDF:41.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 78.6/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4517530.7/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2517075.4/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5347530.0/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2320113.6/22

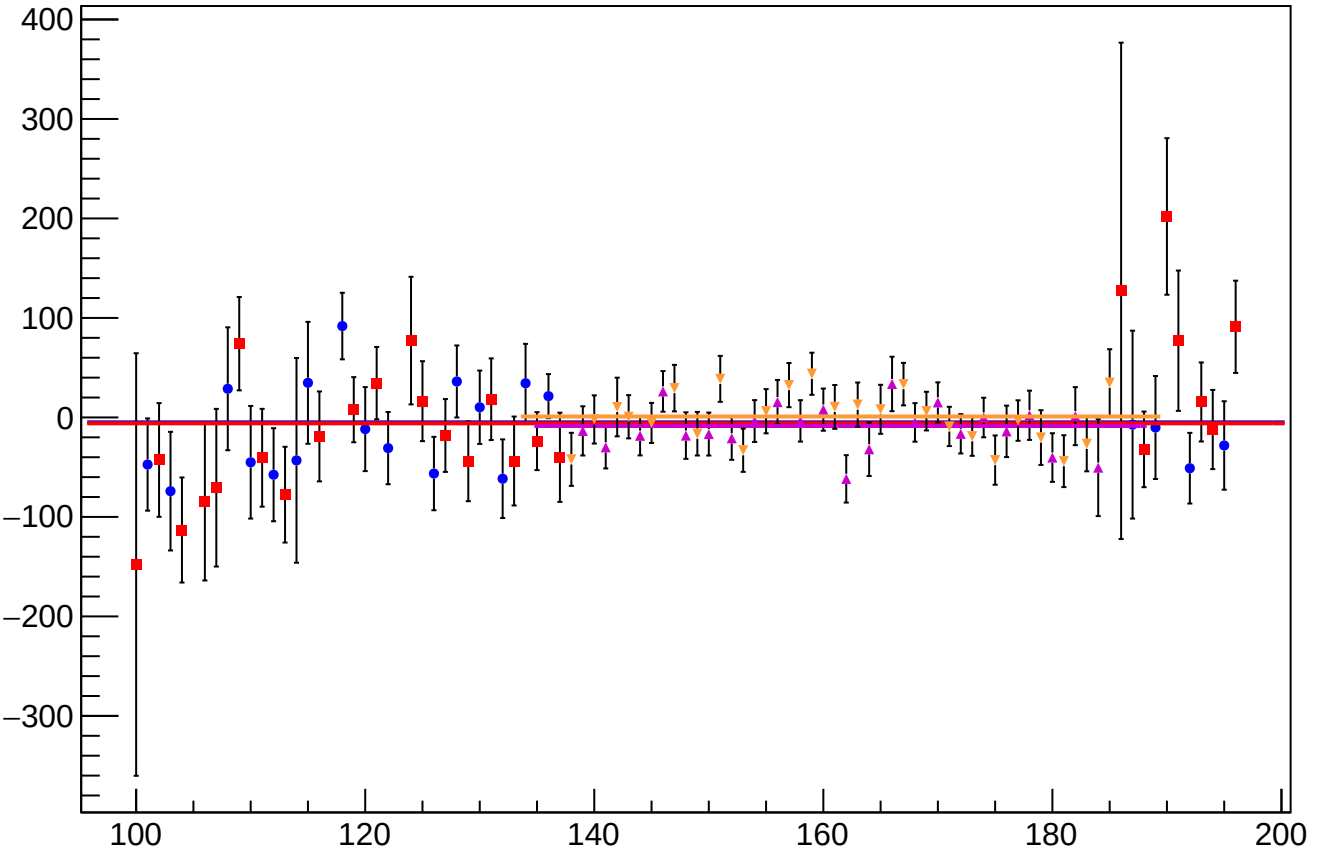
Left: 0.000+/-0.000 $\chi^2$/NDF: 4948206.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 10229403.5/45

In: 0.000+/-0.000 $\chi^2$/NDF:9199304.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12609933.9/50

All: 0.000+/-0.000 $\chi^2$/NDF: 21921920.9/93




Right In: -4.943+/-9.249 $\chi^2$/NDF: 23.6/19

Left Out: 0.917+/-4.574 $\chi^2$/NDF:29.2/24

Right Out: -5.938+/-9.021 $\chi^2$/NDF: 32.6/25

Left In: -8.600+/-4.724 $\chi^2$/NDF:19.4/22

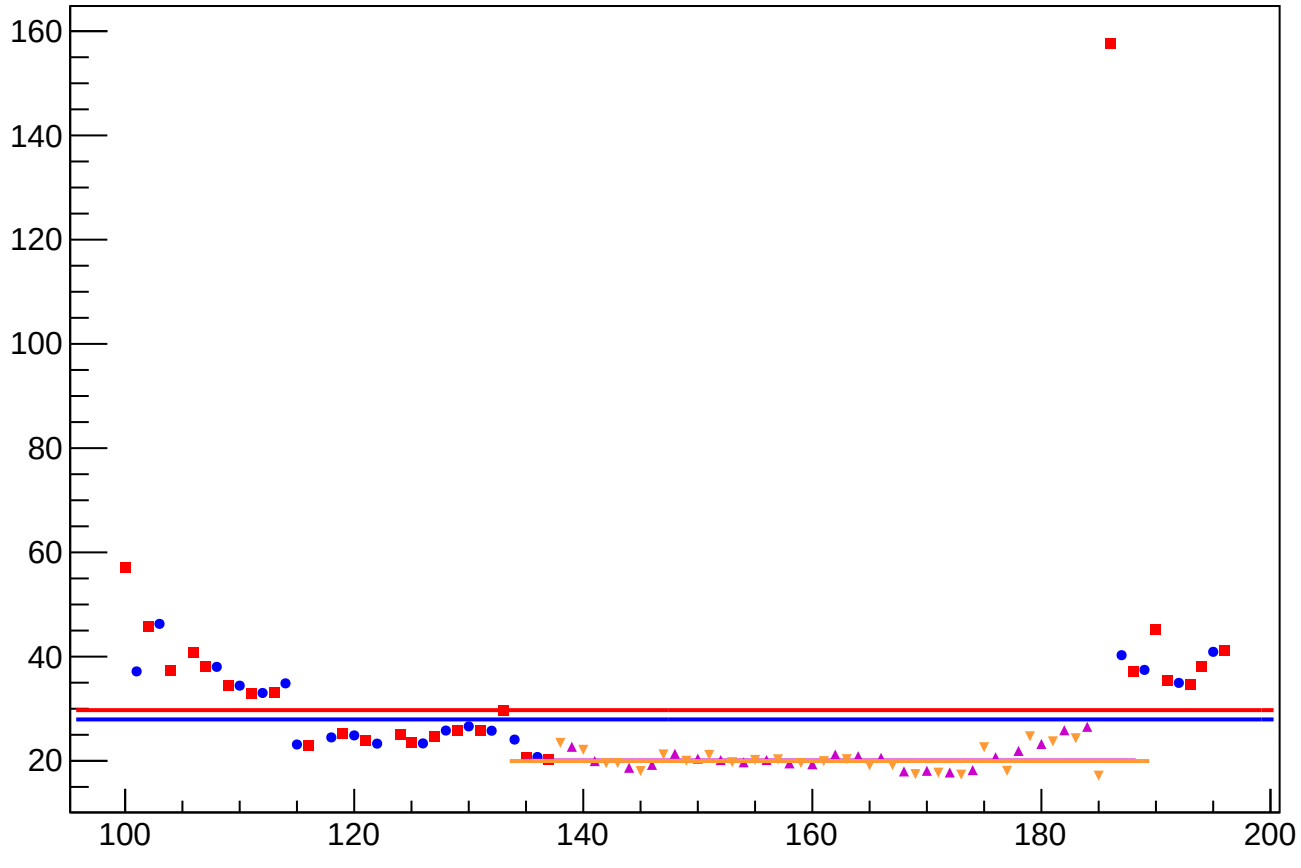
Left: -3.689+/-3.286 $\chi^2$/NDF: 50.7/47

Right: -5.453+/-6.458 $\chi^2$/NDF: 56.2/45

In: -7.844+/-4.207 $\chi^2$/NDF:43.0/42

Out: -0.485+/-4.080 $\chi^2$/NDF:62.3/50

All: -4.052+/-2.929 $\chi^2$/NDF: 106.9/93




Right In: 27.948+/-0.007 $\chi^2$/NDF: 1084395.1/19

Left Out: 19.969+/-0.003 $\chi^2$/NDF:386763.9/24

Right Out: 29.733+/-0.006 $\chi^2$/NDF: 1814926.3/25

Left In: 20.072+/-0.003 $\chi^2$/NDF:301705.2/22

Left: 20.019+/-0.002 $\chi^2$/NDF: 688968.6/47

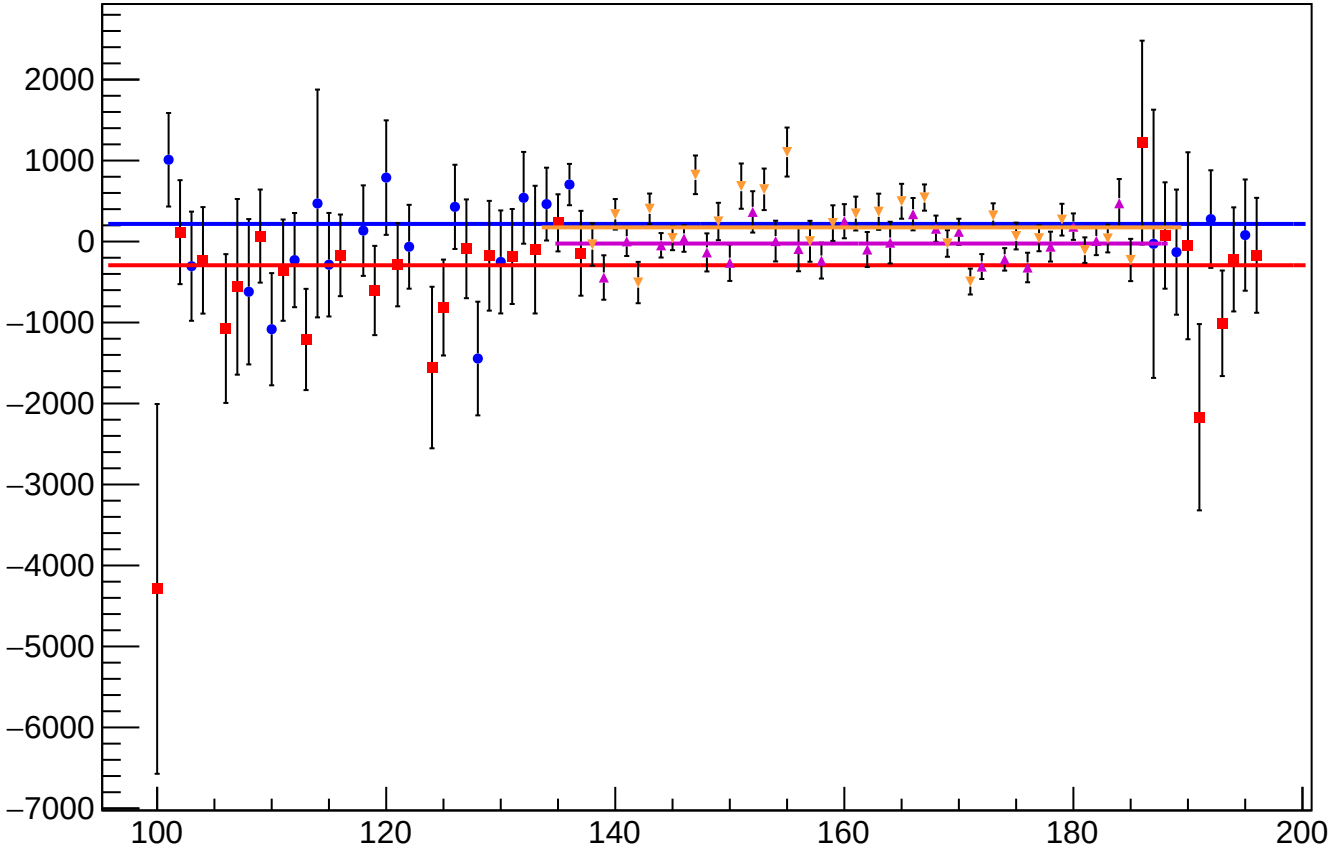
Right: 28.863+/-0.005 $\chi^2$/NDF: 2937475.9/45

In: 21.702+/-0.003 $\chi^2$/NDF:2536263.8/42

Out: 21.965+/-0.003 $\chi^2$/NDF:4065643.6/50

All: 21.838+/-0.002 $\chi^2$/NDF: 6605962.2/93

asym_sam_1357_2468_dd_reg_correction_mean vs Slug, Sign Corrected




Right In: 217.538+/-127.114 $\chi^2$/NDF: 19.9/19

Left Out: 174.693+/-39.049 $\chi^2$/NDF:71.2/24

Right Out: -292.743+/-126.732 $\chi^2$/NDF: 17.8/25

Left In: -24.589+/-40.070 $\chi^2$/NDF:26.9/22

Left: 77.623+/-27.966 $\chi^2$/NDF: 110.8/47

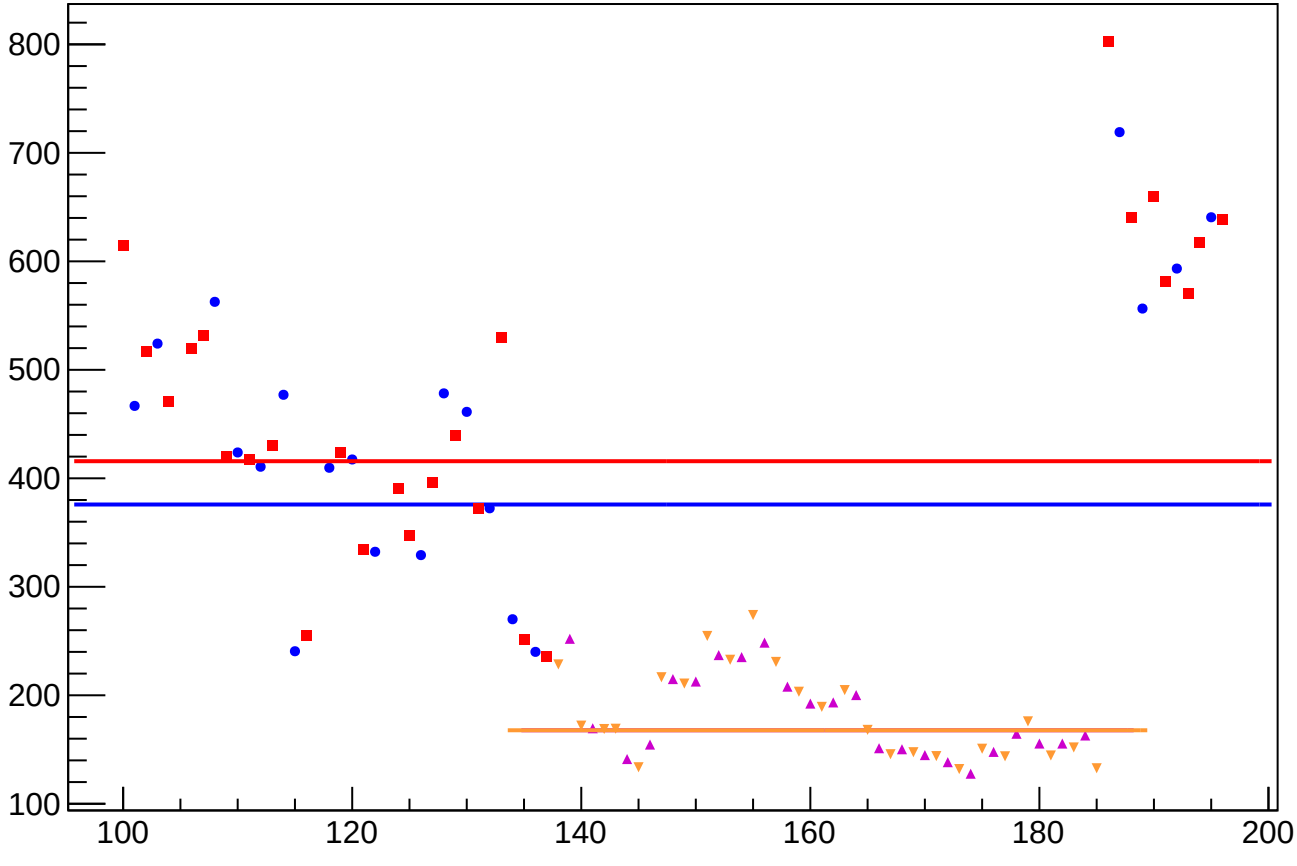
Right: -38.371+/-89.748 $\chi^2$/NDF: 45.8/45

In: -2.704+/-38.216 $\chi^2$/NDF:50.1/42

Out: 134.162+/-37.318 $\chi^2$/NDF:101.5/50

All: 67.357+/-26.700 $\chi^2$/NDF: 158.1/93

asym_sam_1357_2468_dd_reg_correction_rms vs Slug, Sign Corrected




Right In: 375.857+/-0.090 $\chi^2$/NDF: 1902789.4/19

Left Out: 167.754+/-0.028 $\chi^2$/NDF:1578232.9/24

Right Out: 415.777+/-0.090 $\chi^2$/NDF: 2197742.1/25

Left In: 167.748+/-0.028 $\chi^2$/NDF:1403124.0/22

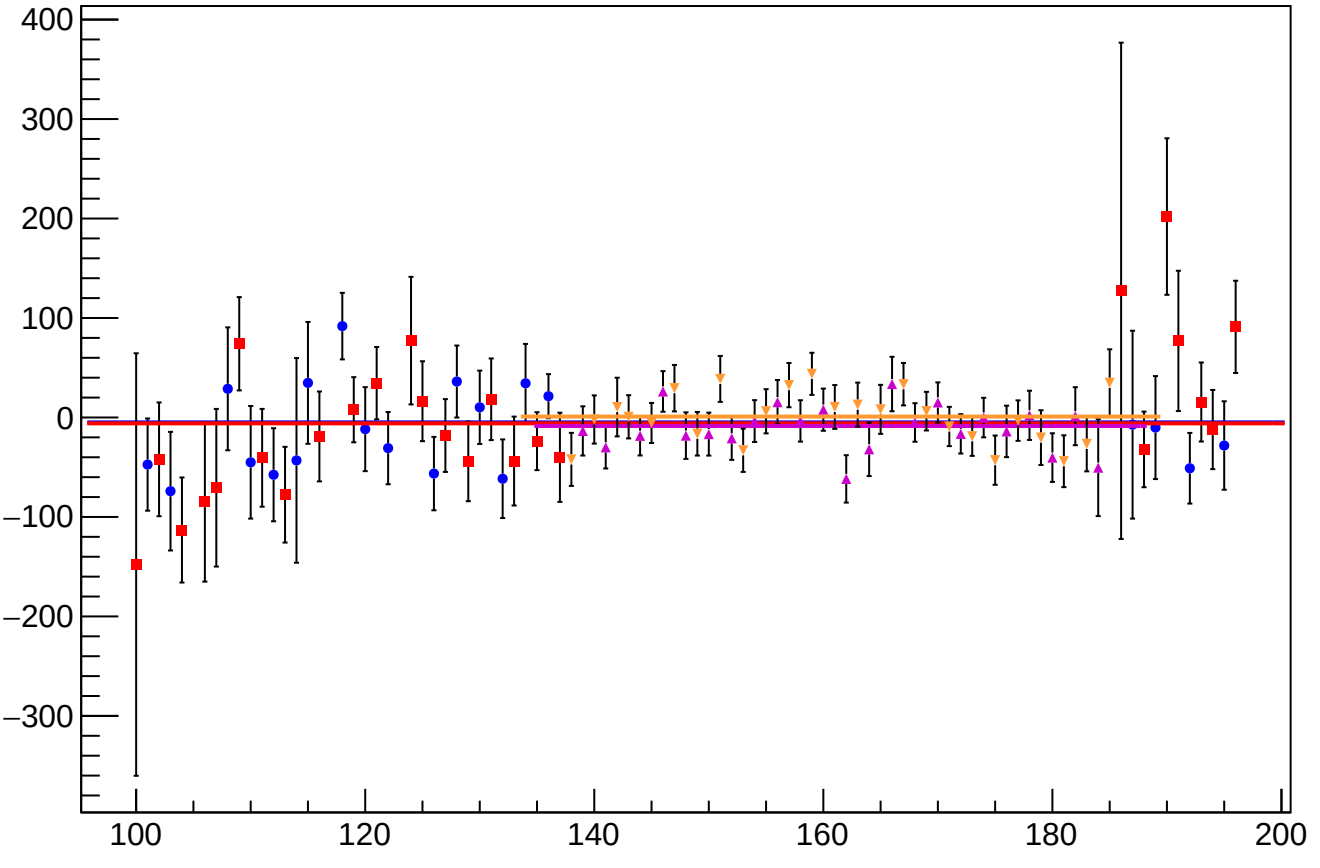
Left: 167.751+/-0.020 $\chi^2$/NDF: 2981357.0/47

Right: 395.877+/-0.063 $\chi^2$/NDF: 4199459.1/45

In: 186.559+/-0.027 $\chi^2$/NDF:8182094.2/42

Out: 189.260+/-0.026 $\chi^2$/NDF:10772045.5/50

All: 187.942+/-0.019 $\chi^2$/NDF: 18959254.3/93




Right In: -4.941+/-9.249 $\chi^2$/NDF: 23.5/19

Left Out: 0.915+/-4.574 $\chi^2$/NDF:29.2/24

Right Out: -5.906+/-9.022 $\chi^2$/NDF: 32.6/25

Left In: -8.600+/-4.724 $\chi^2$/NDF:19.4/22

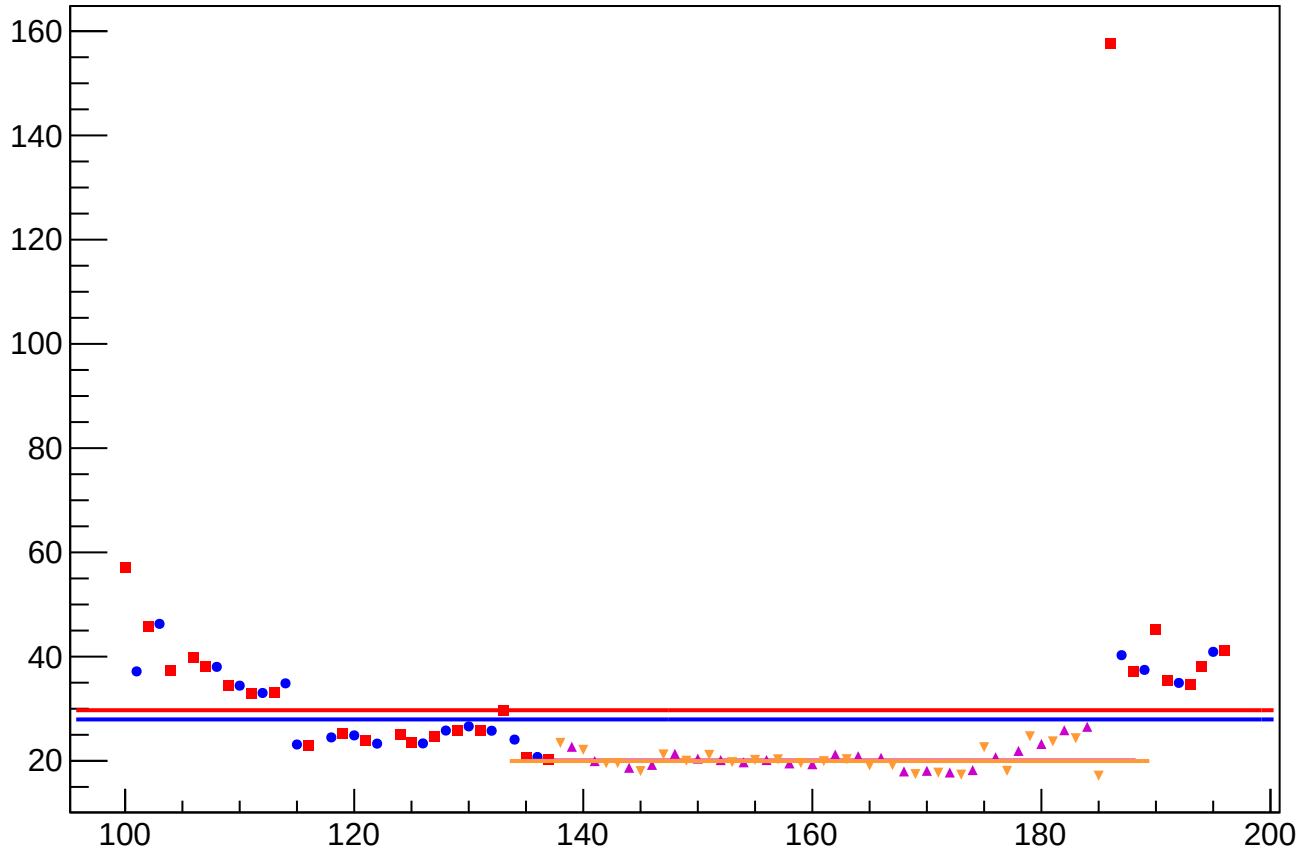
Left: -3.690+/-3.286 $\chi^2$/NDF: 50.7/47

Right: -5.435+/-6.458 $\chi^2$/NDF: 56.1/45

In: -7.843+/-4.207 $\chi^2$/NDF:43.0/42

Out: -0.480+/-4.080 $\chi^2$/NDF:62.3/50

All: -4.049+/-2.929 $\chi^2$/NDF: 106.9/93




Right In: 27.948+/-0.007 $\chi^2$/NDF: 1084398.4/19

Left Out: 19.969+/-0.003 $\chi^2$/NDF:386763.9/24

Right Out: 29.716+/-0.006 $\chi^2$/NDF: 1807292.9/25

Left In: 20.072+/-0.003 $\chi^2$/NDF:301705.2/22

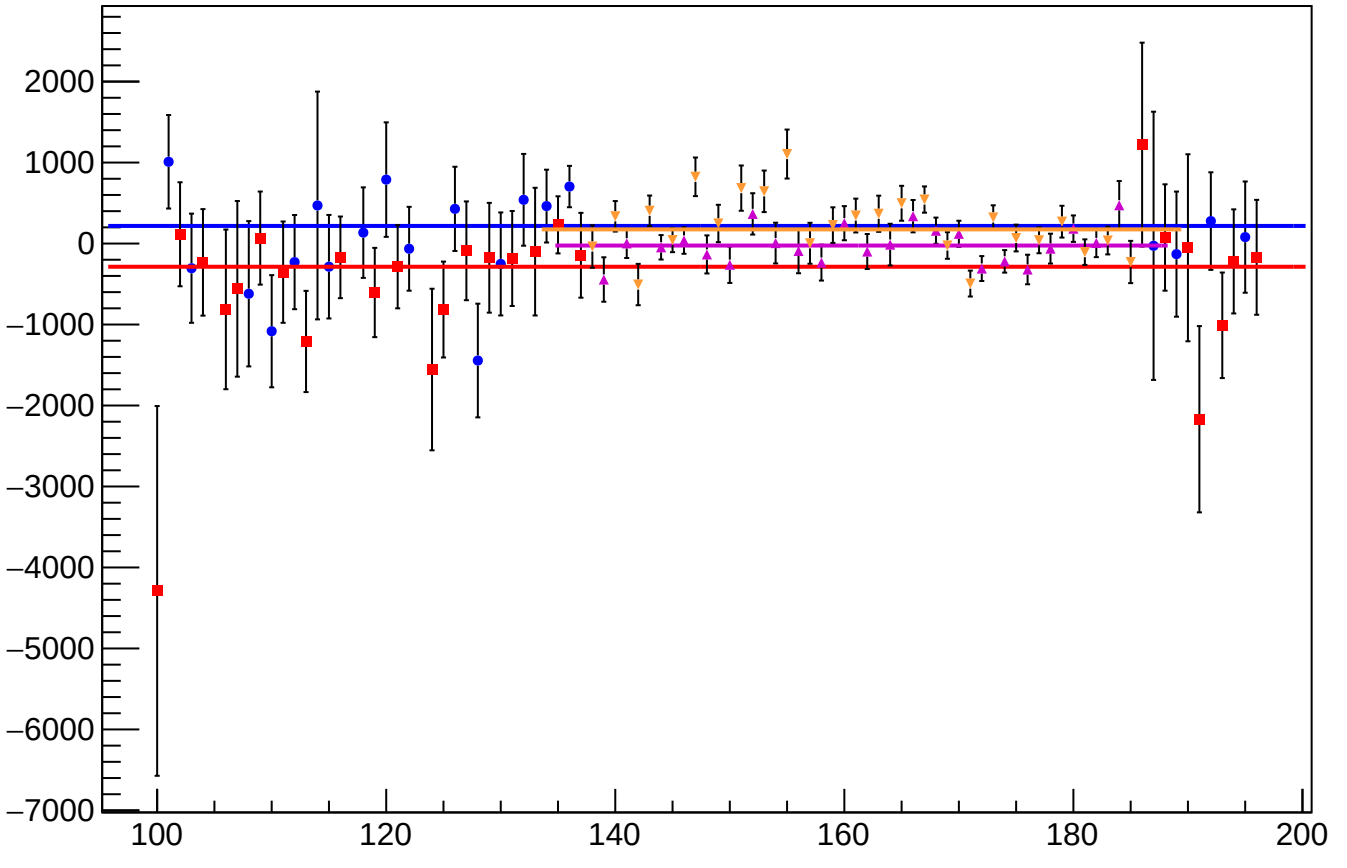
Left: 20.019+/-0.002 $\chi^2$/NDF: 688968.7/47

Right: 28.854+/-0.005 $\chi^2$/NDF: 2929149.4/45

In: 21.702+/-0.003 $\chi^2$/NDF:2536267.2/42

Out: 21.962+/-0.003 $\chi^2$/NDF:4051431.7/50

All: 21.836+/-0.002 $\chi^2$/NDF: 6591639.7/93




Right In: 217.531+/-127.114 $\chi^2$/NDF: 19.9/19

Left Out: 174.691+/-39.049 $\chi^2$/NDF:71.2/24

Right Out: -286.526+/-126.893 $\chi^2$/NDF: 17.4/25

Left In: -24.590+/-40.070 $\chi^2$/NDF:26.9/22

Left: 77.622+/-27.966 $\chi^2$/NDF: 110.8/47

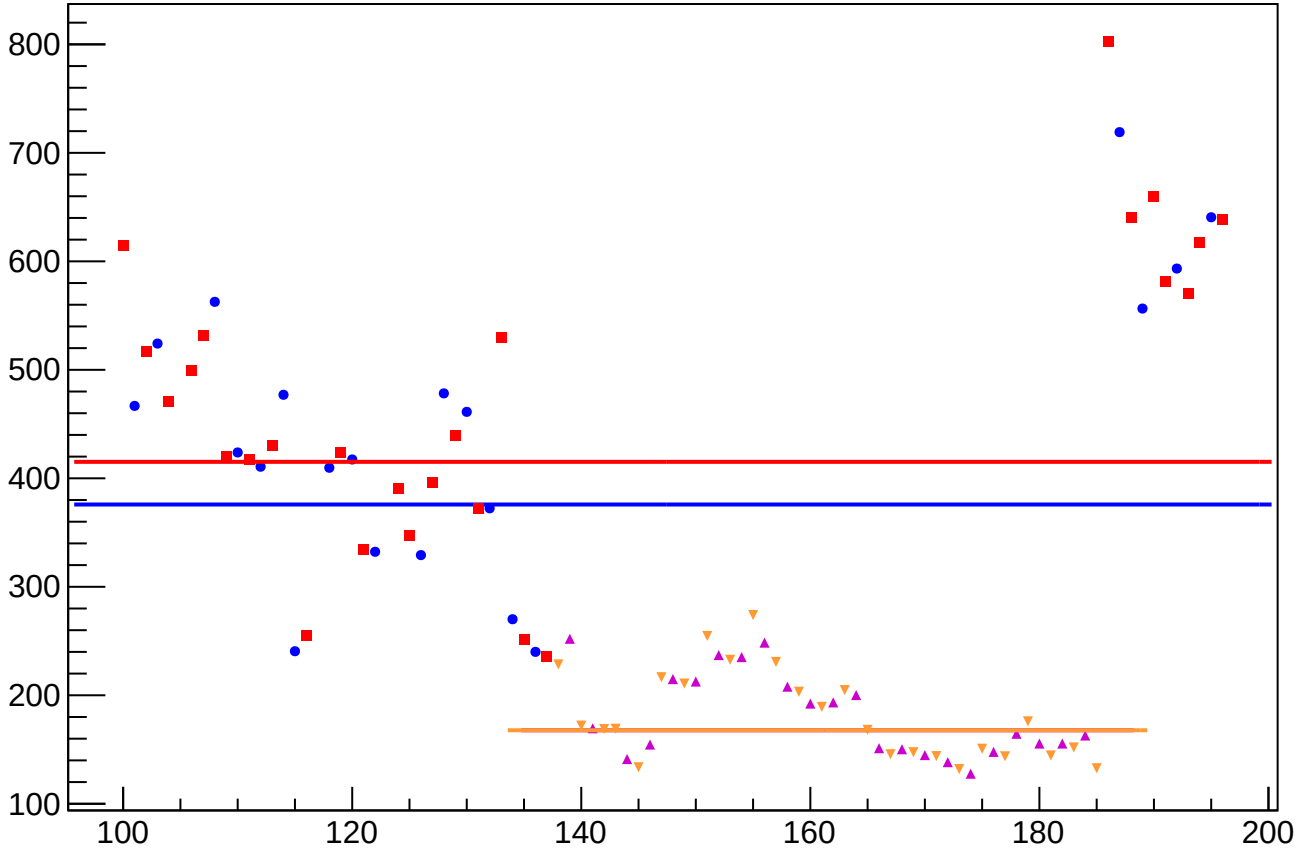
Right: -34.936+/-89.805 $\chi^2$/NDF: 45.2/45

In: -2.705+/-38.216 $\chi^2$/NDF:50.1/42

Out: 134.792+/-37.322 $\chi^2$/NDF:100.6/50

All: 67.672+/-26.701 $\chi^2$/NDF: 157.4/93

asym_sam_1357_2468_dd_cor_correction_rms vs Slug, Sign Corrected




Right In: 375.857+/-0.090 $\chi^2$/NDF: 1902816.6/19

Left Out: 167.754+/-0.028 $\chi^2$/NDF:1578231.3/24

Right Out: 415.185+/-0.090 $\chi^2$/NDF: 2186647.2/25

Left In: 167.748+/-0.028 $\chi^2$/NDF:1403120.1/22

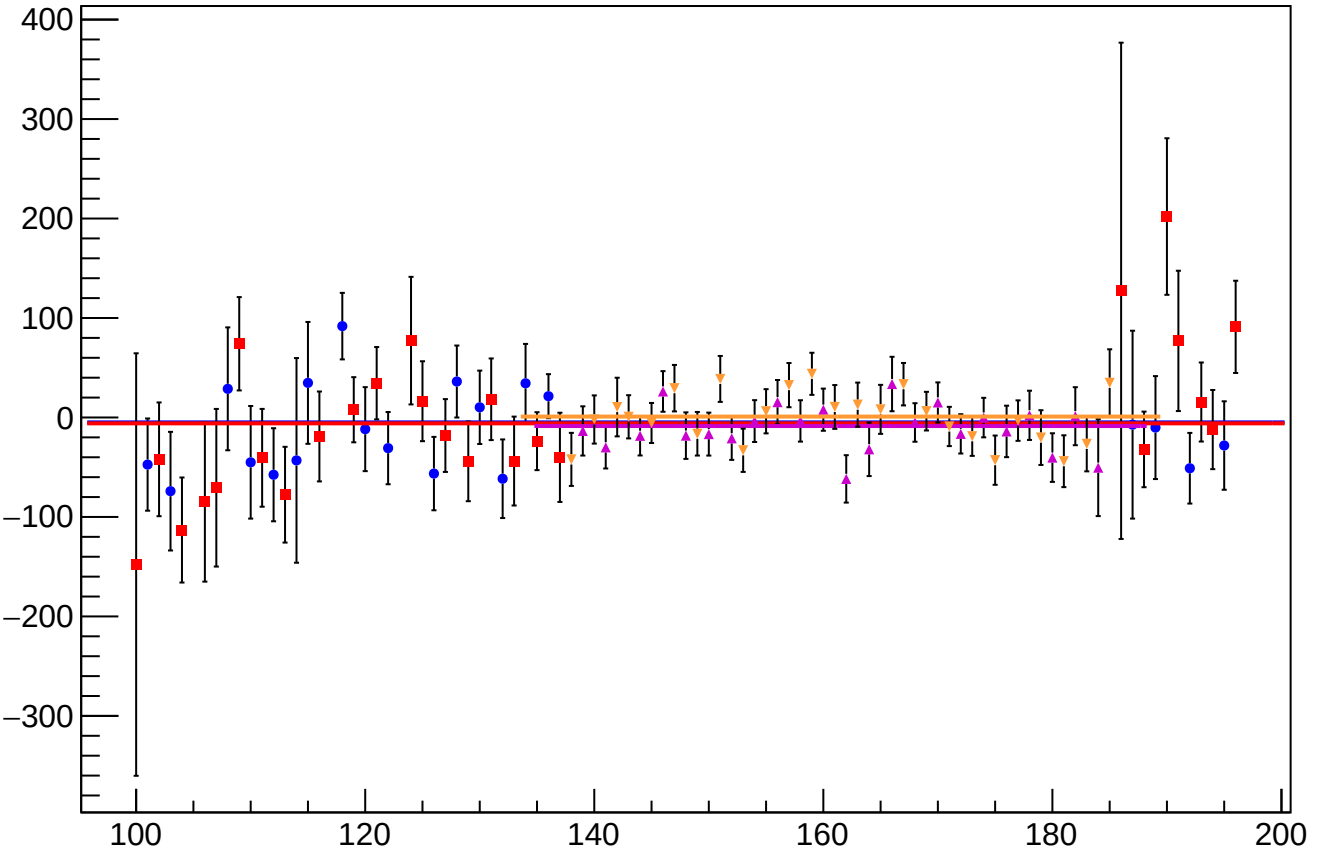
Left: 167.751+/-0.020 $\chi^2$/NDF: 2981351.5/47

Right: 395.555+/-0.064 $\chi^2$/NDF: 4185354.4/45

In: 186.559+/-0.027 $\chi^2$/NDF:8182108.9/42

Out: 189.159+/-0.026 $\chi^2$/NDF:10711406.5/50

All: 187.890+/-0.019 $\chi^2$/NDF: 18898253.2/93




Right In: -4.941+/-9.249 $\chi^2$/NDF: 23.5/19

Left Out: 0.915+/-4.574 $\chi^2$/NDF:29.2/24

Right Out: -5.906+/-9.022 $\chi^2$/NDF: 32.6/25

Left In: -8.600+/-4.724 $\chi^2$/NDF:19.4/22

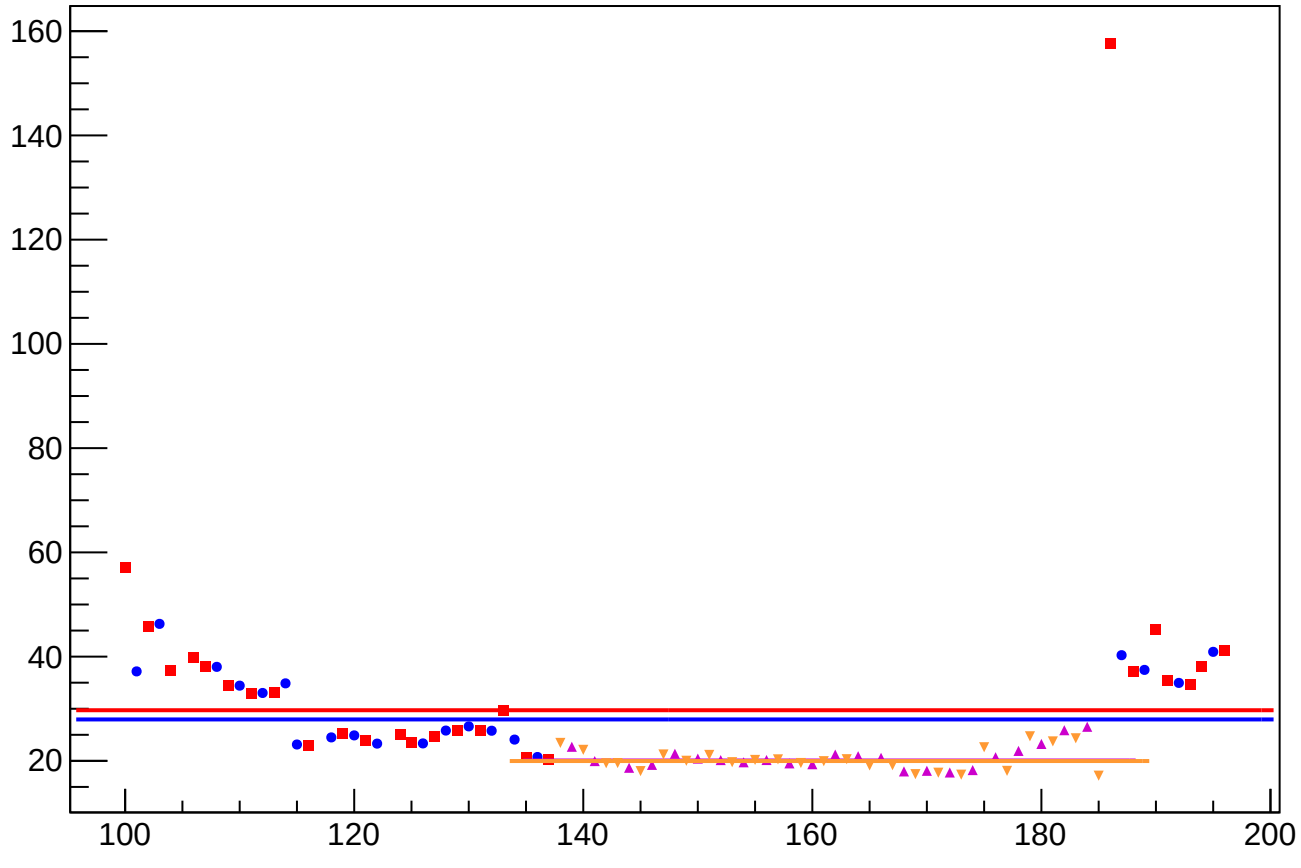
Left: -3.690+/-3.286 $\chi^2$/NDF: 50.7/47

Right: -5.435+/-6.458 $\chi^2$/NDF: 56.1/45

In: -7.843+/-4.207 $\chi^2$/NDF:43.0/42

Out: -0.480+/-4.080 $\chi^2$/NDF:62.3/50

All: -4.049+/-2.929 $\chi^2$/NDF: 106.9/93




Right In: 27.948+/-0.007 $\chi^2$/NDF: 1084398.4/19

Left Out: 19.969+/-0.003 $\chi^2$/NDF:386763.9/24

Right Out: 29.716+/-0.006 $\chi^2$/NDF: 1807292.9/25

Left In: 20.072+/-0.003 $\chi^2$/NDF:301705.2/22

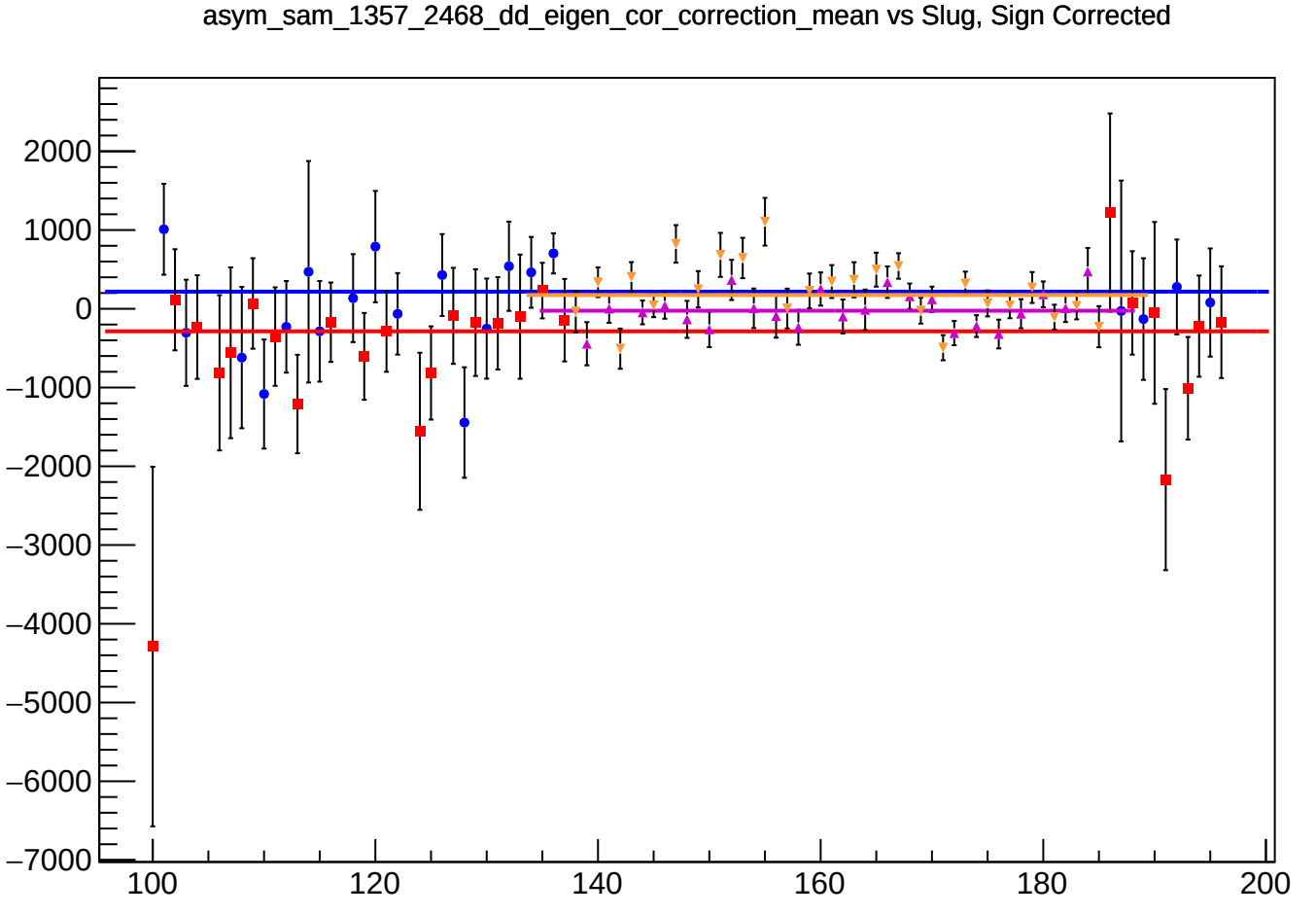
Left: 20.019+/-0.002 $\chi^2$/NDF: 688968.7/47

Right: 28.854+/-0.005 $\chi^2$/NDF: 2929149.4/45

In: 21.702+/-0.003 $\chi^2$/NDF:2536267.2/42

Out: 21.962+/-0.003 $\chi^2$/NDF:4051431.7/50

All: 21.836+/-0.002 $\chi^2$/NDF: 6591639.7/93




Right In: 217.531+/-127.114 $\chi^2$/NDF: 19.9/19

Left Out: 174.691+/-39.049 $\chi^2$/NDF:71.2/24

Right Out: -286.526+/-126.893 $\chi^2$/NDF: 17.4/25

Left In: -24.590+/-40.070 $\chi^2$/NDF:26.9/22

Left: 77.622+/-27.966 $\chi^2$/NDF: 110.8/47

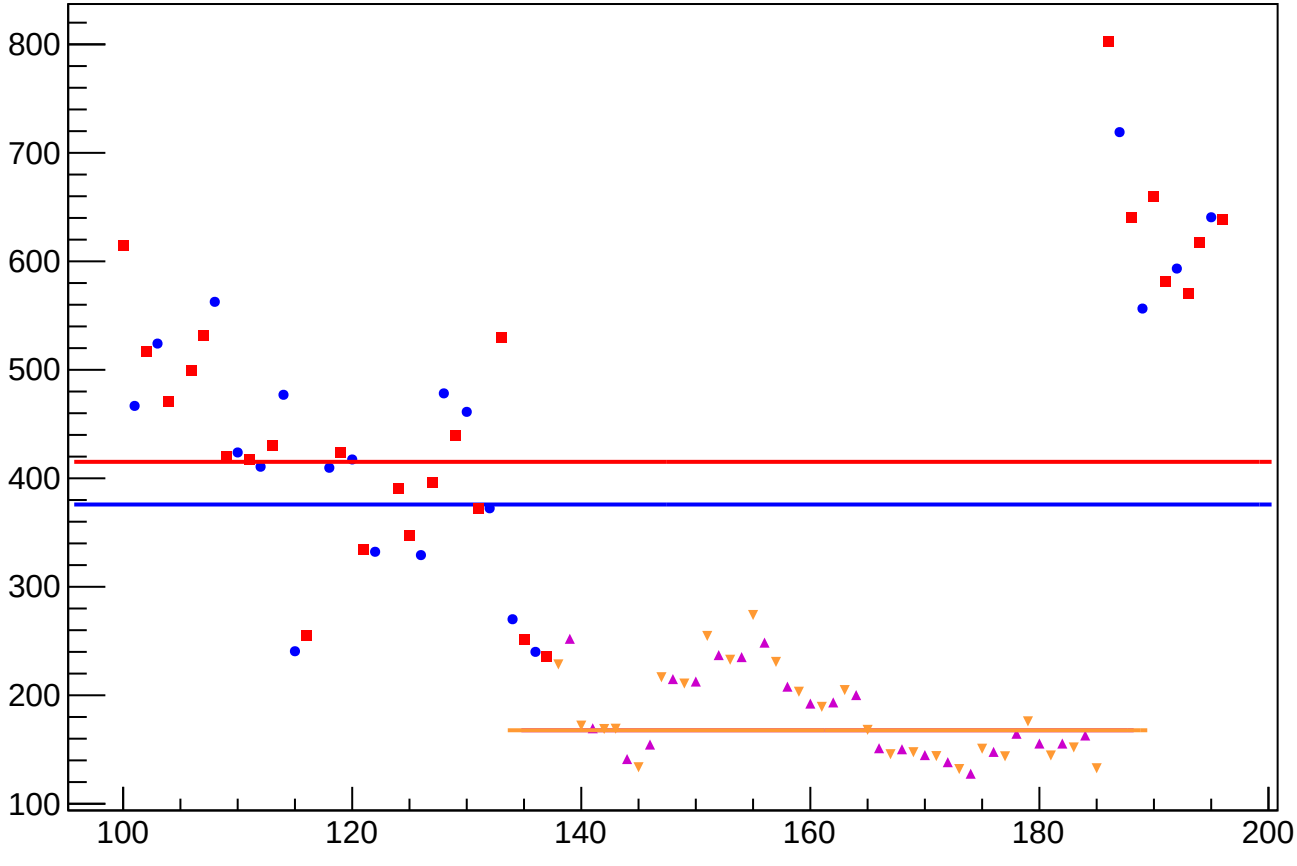
Right: -34.936+/-89.805 $\chi^2$/NDF: 45.2/45

In: -2.705+/-38.216 $\chi^2$/NDF:50.1/42

Out: 134.792+/-37.322 $\chi^2$/NDF:100.6/50

All: 67.672+/-26.701 $\chi^2$/NDF: 157.4/93

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 375.857+/-0.090 $\chi^2$/NDF: 1902816.6/19

Left Out: 167.754+/-0.028 $\chi^2$/NDF:1578231.3/24

Right Out: 415.185+/-0.090 $\chi^2$/NDF: 2186647.2/25

Left In: 167.748+/-0.028 $\chi^2$/NDF:1403120.1/22

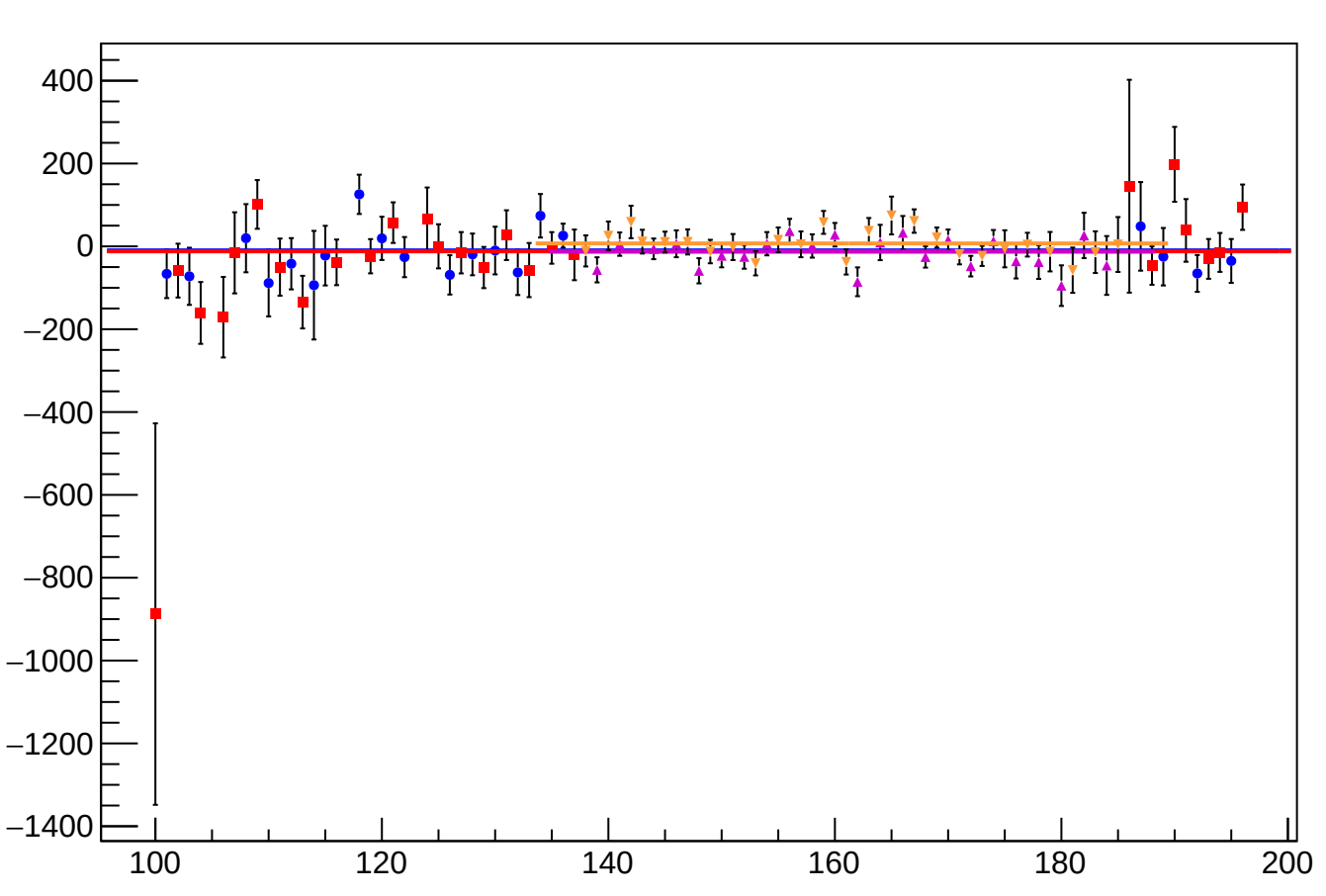
Left: 167.751+/-0.020 $\chi^2$/NDF: 2981351.5/47

Right: 395.555+/-0.064 $\chi^2$/NDF: 4185354.4/45

In: 186.559+/-0.027 $\chi^2$/NDF:8182108.9/42

Out: 189.159+/-0.026 $\chi^2$/NDF:10711406.5/50

All: 187.890+/-0.019 $\chi^2$/NDF: 18898253.2/93




Right In: -9.753+/-12.187 $\chi^2$/NDF: 20.8/19

Left Out: 7.079+/-6.333 $\chi^2$/NDF:22.7/24

Right Out: -11.982+/-11.542 $\chi^2$/NDF: 34.3/25

Left In: -12.697+/-6.513 $\chi^2$/NDF:25.6/22

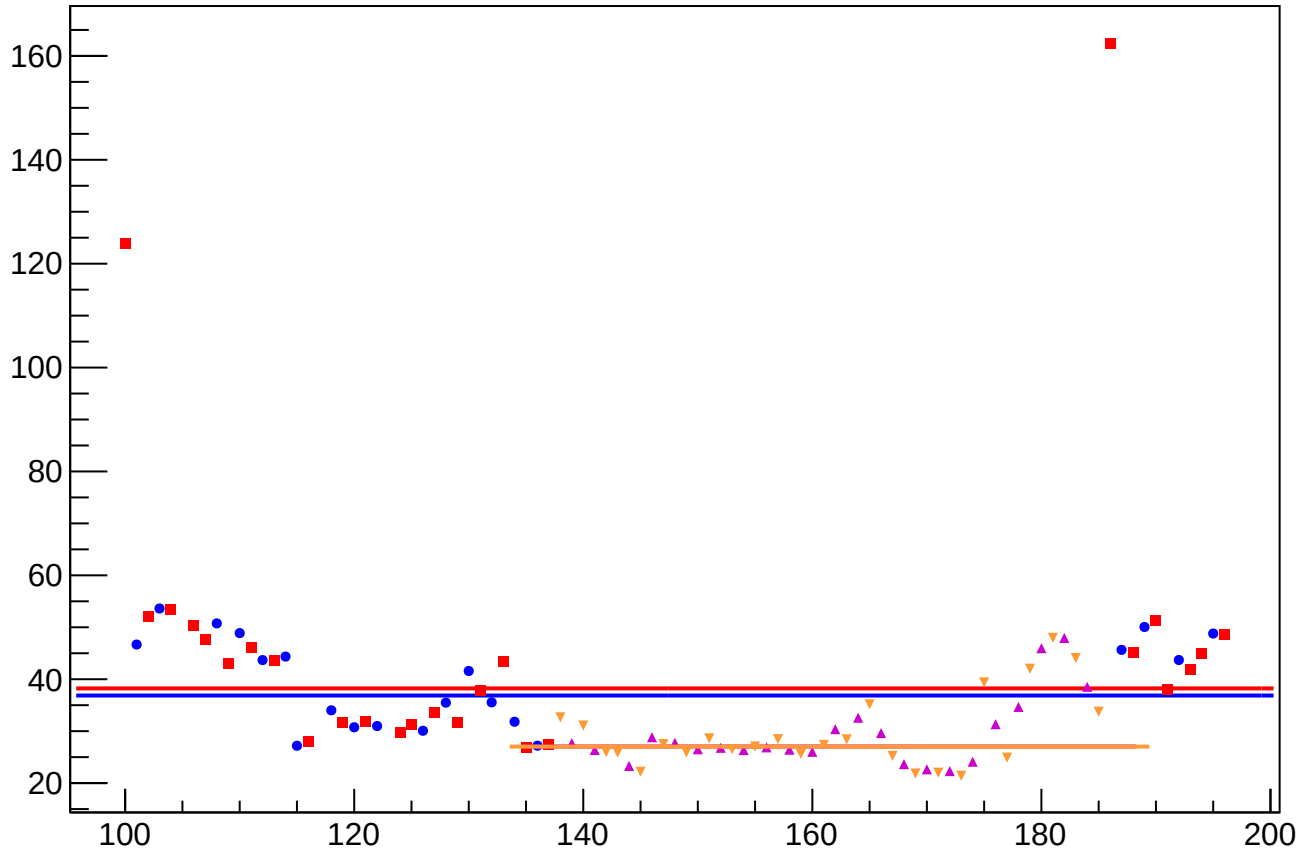
Left: -2.531+/-4.541 $\chi^2$/NDF: 53.1/47

Right: -10.928+/-8.380 $\chi^2$/NDF: 55.1/45

In: -12.043+/-5.745 $\chi^2$/NDF:46.5/42

Out: 2.668+/-5.552 $\chi^2$/NDF:59.1/50

All: -4.437+/-3.992 $\chi^2$/NDF: 109.0/93




Right In: 36.863+/-0.009 $\chi^2$/NDF: 937951.1/19

Left Out: 27.026+/-0.004 $\chi^2$/NDF:1430523.7/24

Right Out: 38.232+/-0.008 $\chi^2$/NDF: 1536768.6/25

Left In: 27.052+/-0.005 $\chi^2$/NDF:1044359.4/22

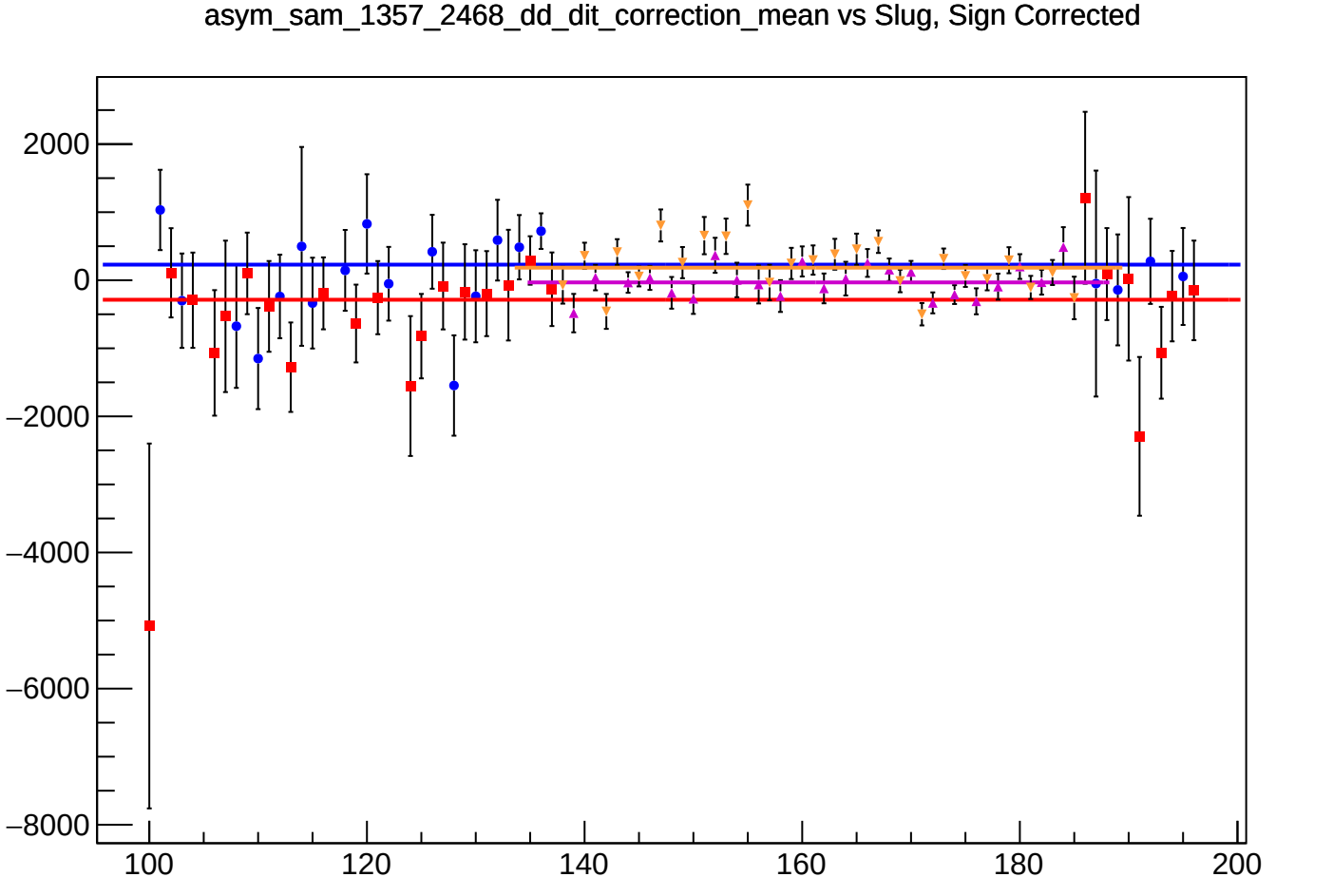
Left: 27.039+/-0.003 $\chi^2$/NDF: 2474899.1/47

Right: 37.585+/-0.006 $\chi^2$/NDF: 2488018.3/45

In: 29.232+/-0.004 $\chi^2$/NDF:2990476.6/42

Out: 29.619+/-0.004 $\chi^2$/NDF:4416181.0/50

All: 29.432+/-0.003 $\chi^2$/NDF: 7411364.0/93




Right In: 229.228+/-132.207 $\chi^2$/NDF: 20.1/19

Left Out: 184.675+/-39.832 $\chi^2$/NDF:67.7/24

Right Out: -286.495+/-131.368 $\chi^2$/NDF: 18.8/25

Left In: -31.891+/-40.975 $\chi^2$/NDF:26.4/22

Left: 79.454+/-28.561 $\chi^2$/NDF: 108.4/47

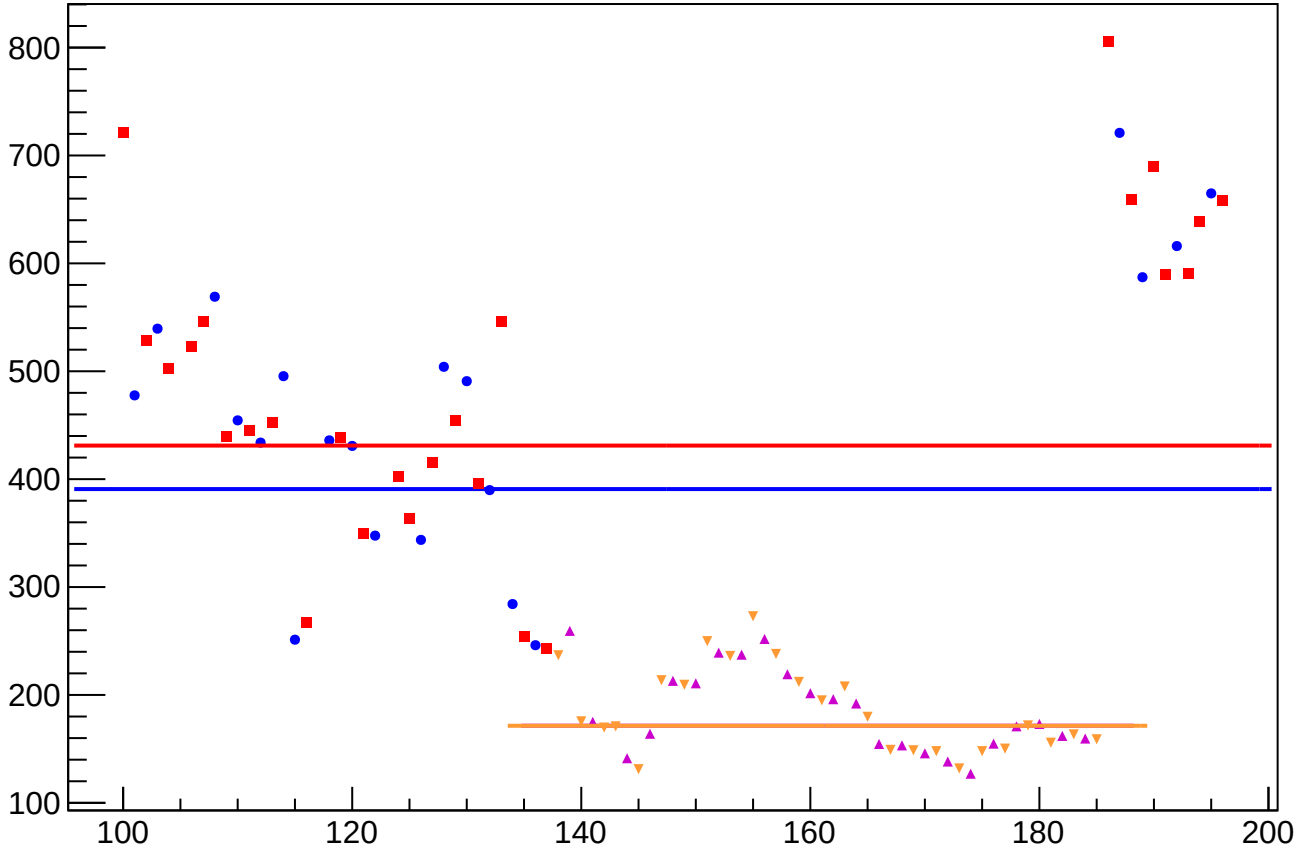
Right: -30.275+/-93.186 $\chi^2$/NDF: 46.5/45

In: -9.007+/-39.138 $\chi^2$/NDF:50.0/42

Out: 145.005+/-38.118 $\chi^2$/NDF:98.2/50

All: 70.032+/-27.307 $\chi^2$/NDF: 156.2/93

asym_sam_1357_2468_dd_dit_correction_rms vs Slug, Sign Corrected




Right In: 390.806+/-0.093 $\chi^2$/NDF: 1935096.8/19

Left Out: 171.427+/-0.028 $\chi^2$/NDF:1526852.0/24

Right Out: 431.126+/-0.093 $\chi^2$/NDF: 2213165.8/25

Left In: 171.490+/-0.029 $\chi^2$/NDF:1415769.4/22

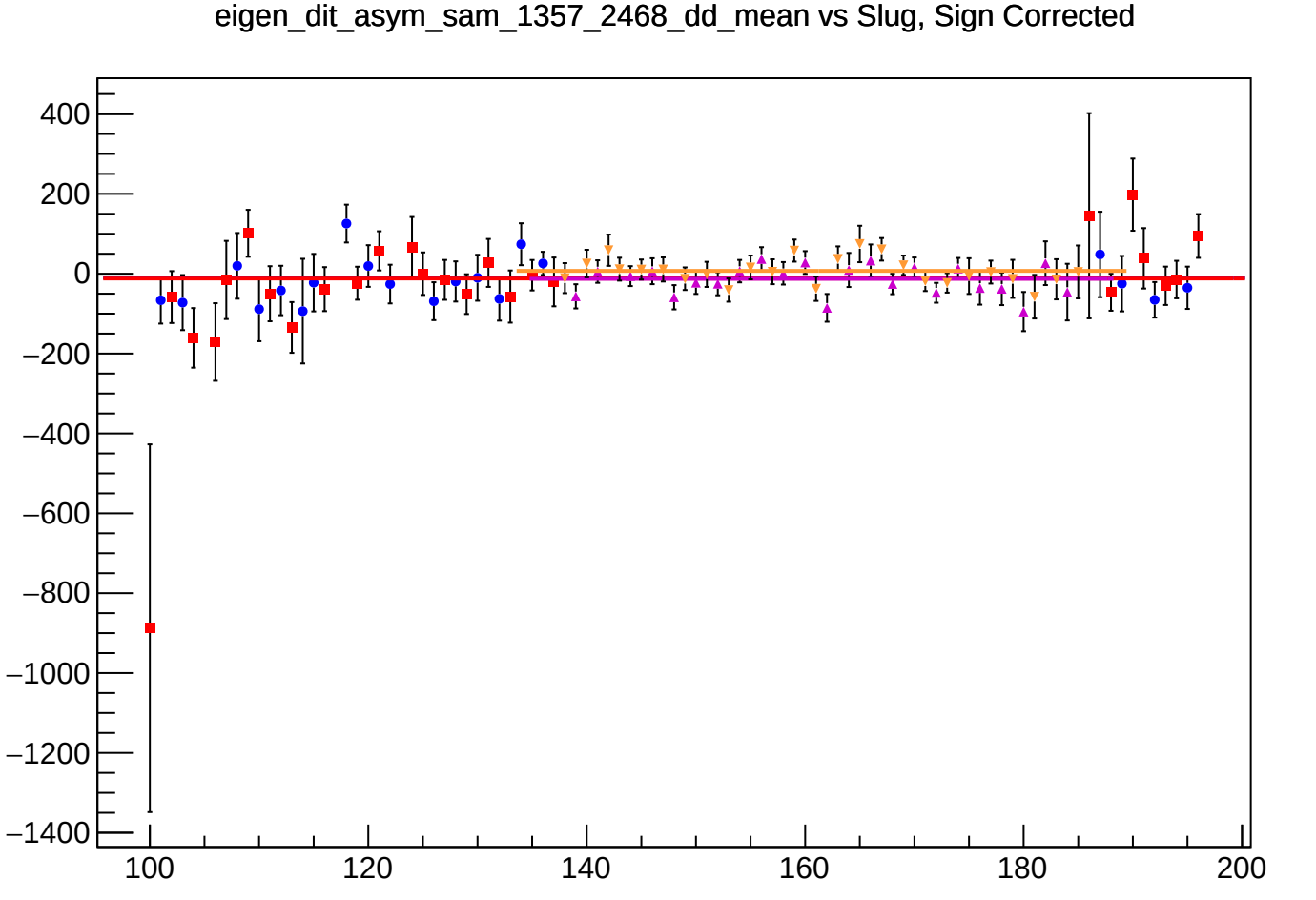
Left: 171.457+/-0.020 $\chi^2$/NDF: 2942623.8/47

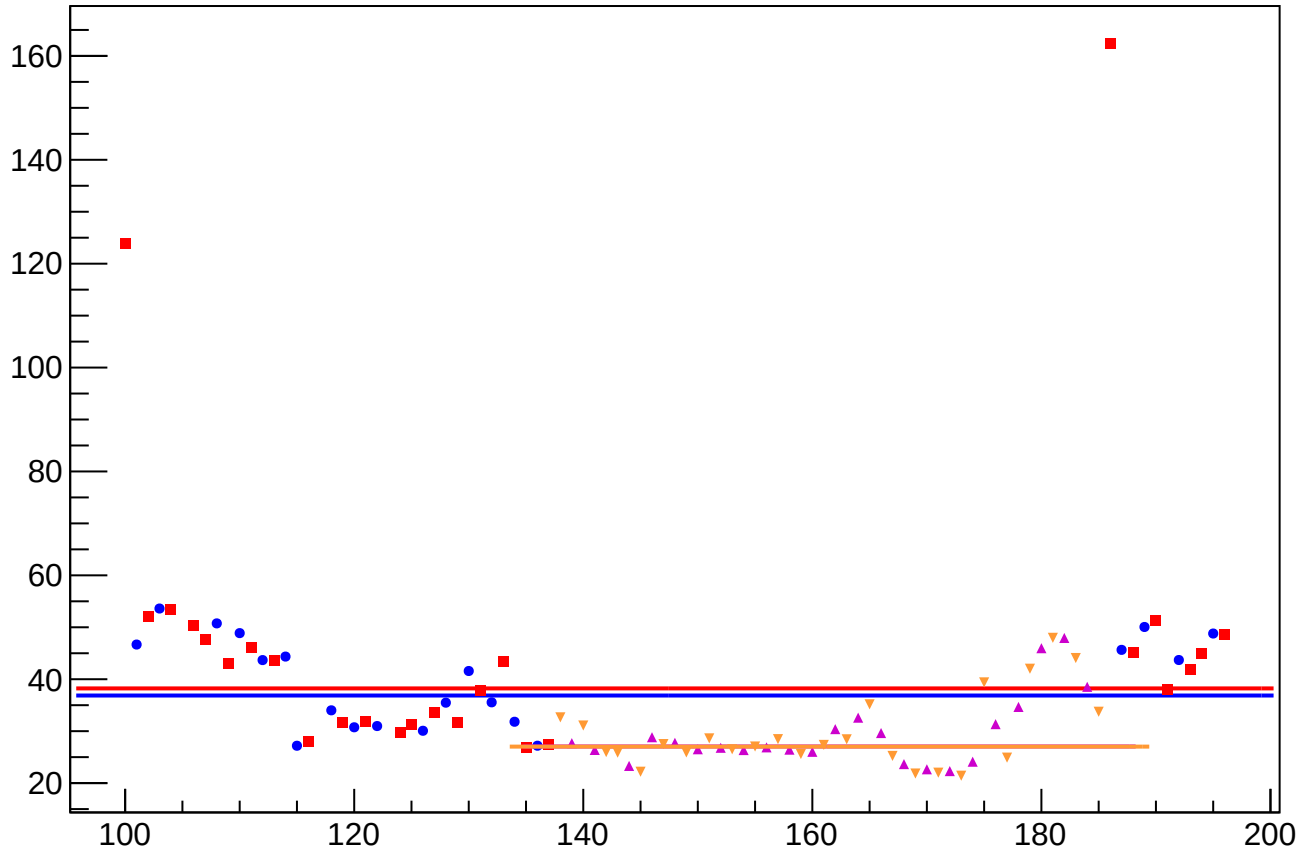
Right: 411.094+/-0.066 $\chi^2$/NDF: 4241863.3/45

In: 190.710+/-0.028 $\chi^2$/NDF:8372353.0/42

Out: 193.292+/-0.027 $\chi^2$/NDF:10898070.7/50

All: 192.035+/-0.019 $\chi^2$/NDF: 19274890.0/93


eigen_dit_asym_sam_1357_2468_dd_mean vs Slug, Sign Corrected
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
100
120
140
160
180
200
Right In: -9.753+/-12.187 χ²/NDF: 20.8/19
Left Out: 7.079+/-6.333 χ²/NDF:22.7/24
Right Out: -11.981+/-11.542 χ²/NDF: 34.3/25
Left In: -12.697+/-6.513 χ²/NDF:25.6/22
Left: -2.531+/-4.541 χ²/NDF: 53.1/47
Right: -10.928+/-8.380 χ²/NDF: 55.1/45
In: -12.043+/-5.745 χ²/NDF:46.5/42
Out: 2.668+/-5.552 χ²/NDF:59.1/50
All: -4.437+/-3.992 χ²/NDF: 109.0/93




Right In: 36.863+/-0.009 $\chi^2$/NDF: 937930.1/19

Left Out: 27.026+/-0.004 $\chi^2$/NDF:1430534.9/24

Right Out: 38.231+/-0.008 $\chi^2$/NDF: 1536765.5/25

Left In: 27.052+/-0.005 $\chi^2$/NDF:1044338.2/22

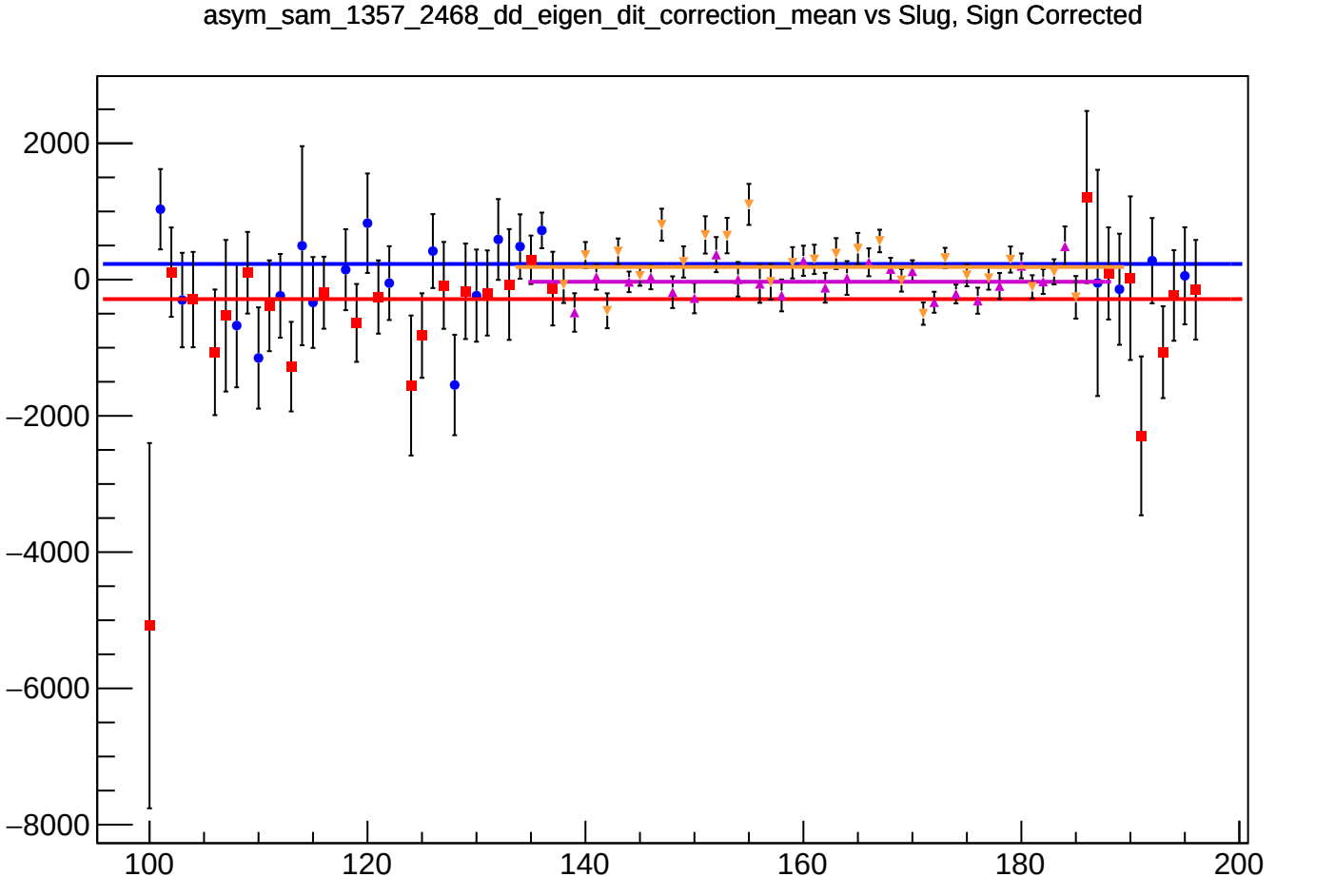
Left: 27.039+/-0.003 $\chi^2$/NDF: 2474889.1/47

Right: 37.584+/-0.006 $\chi^2$/NDF: 2487996.0/45

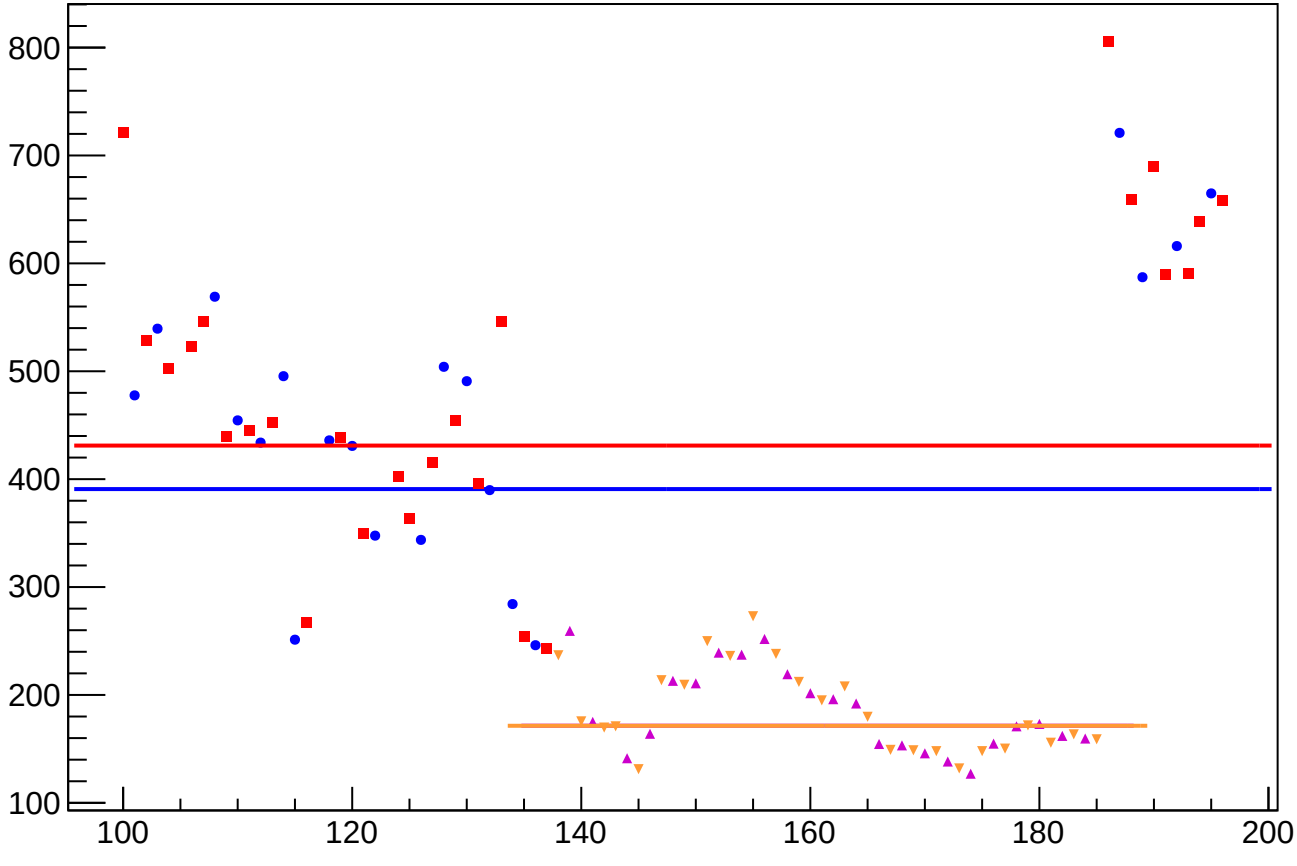
In: 29.232+/-0.004 $\chi^2$/NDF:2990346.6/42

Out: 29.619+/-0.004 $\chi^2$/NDF:4416086.4/50

All: 29.432+/-0.003 $\chi^2$/NDF: 7411140.4/93


asym_sam_1357_2468_dd_eigen_dit_correction_mean vs Slug, Sign Corrected
2000
0
−2000
−4000
−6000
−8000
100
120
140
160
180
200
Right In: 229.226+/-132.206 χ²/NDF: 20.1/19
Left Out: 184.674+/-39.832 χ²/NDF:67.7/24
Right Out: -286.495+/-131.368 χ²/NDF: 18.8/25
Left In: -31.891+/-40.975 χ²/NDF:26.4/22
Left: 79.454+/-28.561 χ²/NDF: 108.4/47
Right: -30.276+/-93.186 χ²/NDF: 46.5/45
In: -9.007+/-39.138 χ²/NDF:50.0/42
Out: 145.004+/-38.118 χ²/NDF:98.2/50
All: 70.031+/-27.307 χ²/NDF: 156.2/93

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 390.805+/-0.093 $\chi^2$/NDF: 1935095.2/19

Left Out: 171.426+/-0.028 $\chi^2$/NDF:1526868.9/24

Right Out: 431.125+/-0.093 $\chi^2$/NDF: 2213170.5/25

Left In: 171.489+/-0.029 $\chi^2$/NDF:1415782.1/22

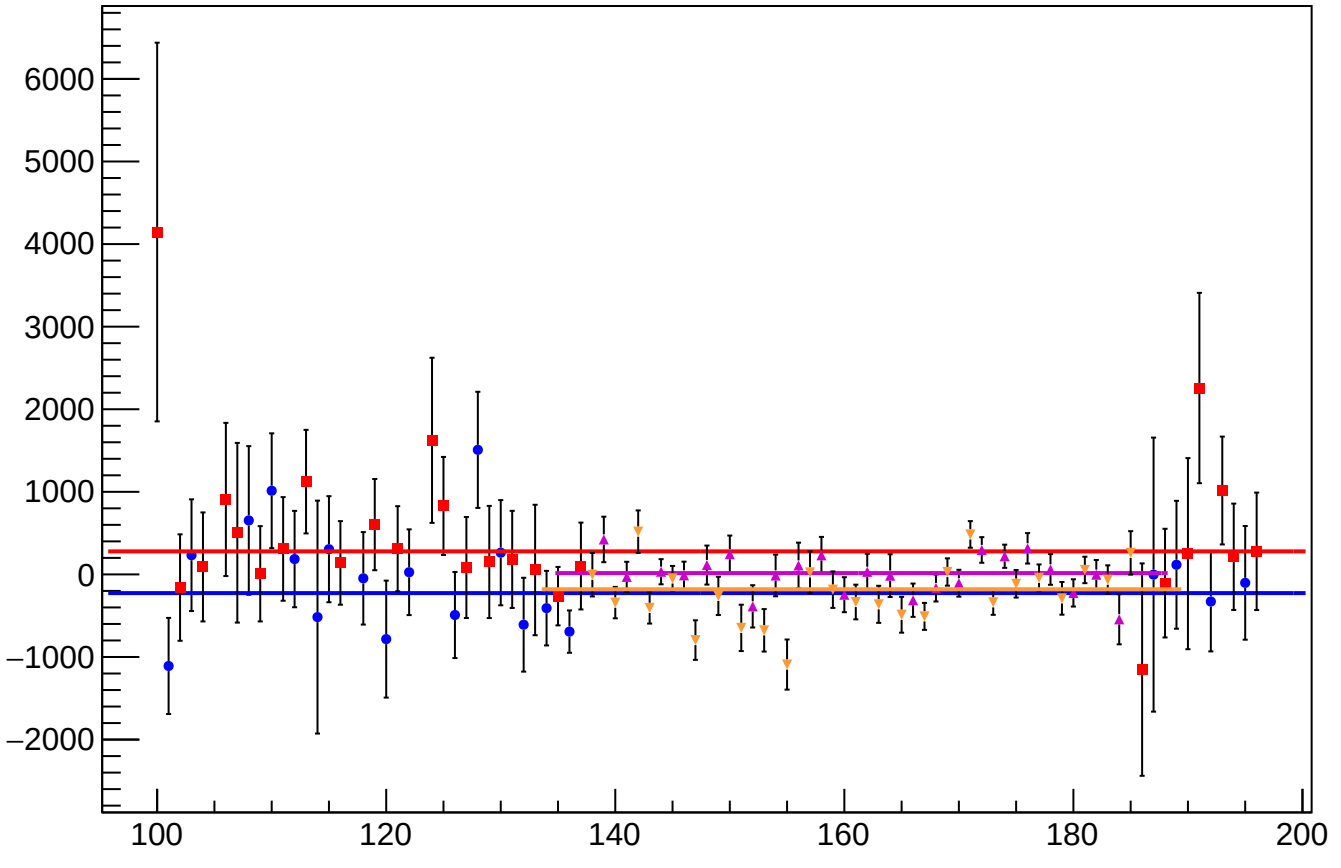
Left: 171.457+/-0.020 $\chi^2$/NDF: 2942653.5/47

Right: 411.093+/-0.066 $\chi^2$/NDF: 4241866.7/45

In: 190.710+/-0.028 $\chi^2$/NDF:8372375.6/42

Out: 193.292+/-0.027 $\chi^2$/NDF:10898101.5/50

All: 192.035+/-0.019 $\chi^2$/NDF: 19274943.6/93




Right In: -226.419+/-127.544 $\chi^2$/NDF: 20.2/19

Left Out: -179.656+/-39.364 $\chi^2$/NDF:67.1/24

Right Out: 278.821+/-127.136 $\chi^2$/NDF: 17.5/25

Left In: 16.057+/-40.396 $\chi^2$/NDF:26.6/22

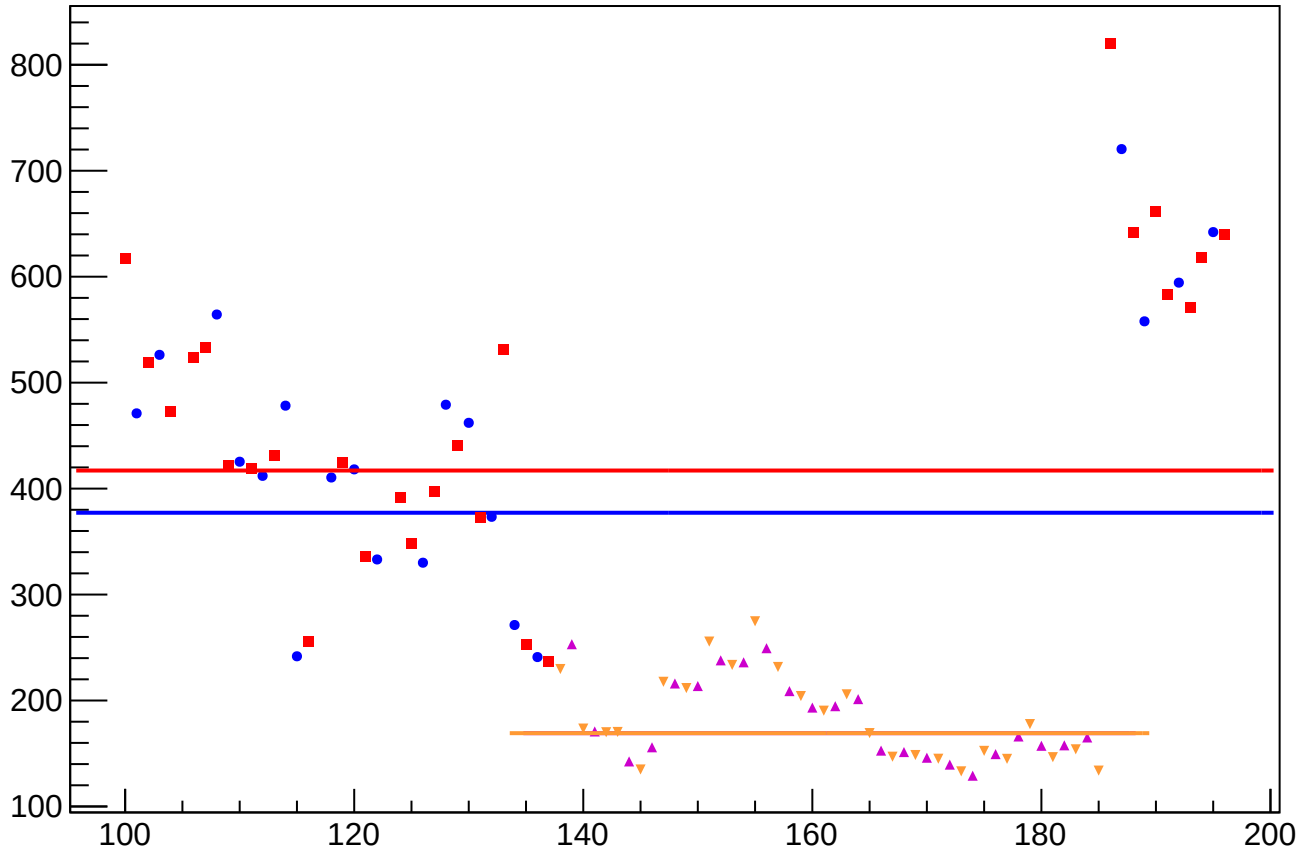
Left: -84.333+/-28.192 $\chi^2$/NDF: 105.8/47

Right: 27.010+/-90.042 $\chi^2$/NDF: 45.6/45

In: -6.049+/-38.511 $\chi^2$/NDF:50.1/42

Out: -139.549+/-37.602 $\chi^2$/NDF:96.5/50

All: -74.392+/-26.904 $\chi^2$/NDF: 152.8/93




Right In: 377.213+/-0.090 $\chi^2$/NDF: 1897789.3/19

Left Out: 169.182+/-0.028 $\chi^2$/NDF:1547748.9/24

Right Out: 417.065+/-0.090 $\chi^2$/NDF: 2200312.7/25

Left In: 169.187+/-0.029 $\chi^2$/NDF:1374439.5/22

Left: 169.184+/-0.020 $\chi^2$/NDF: 2922188.4/47

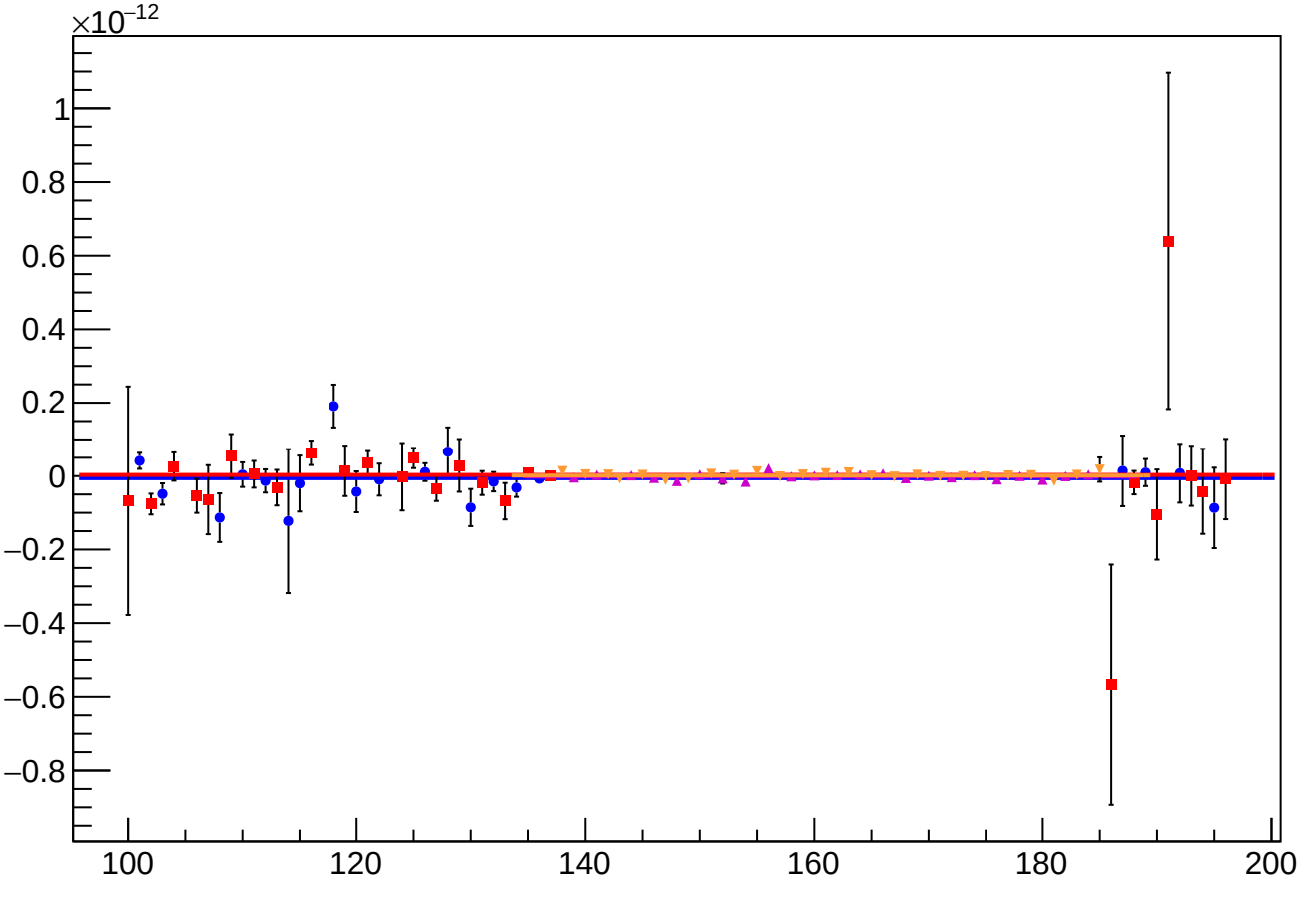
Right: 397.203+/-0.064 $\chi^2$/NDF: 4196043.9/45

In: 188.152+/-0.027 $\chi^2$/NDF:8107605.8/42

Out: 190.866+/-0.027 $\chi^2$/NDF:10686046.5/50

All: 189.542+/-0.019 $\chi^2$/NDF: 18798735.4/93

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.000+/-0.000 $\chi^2$/NDF: 28.1/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:18.8/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 29.4/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:19.7/22

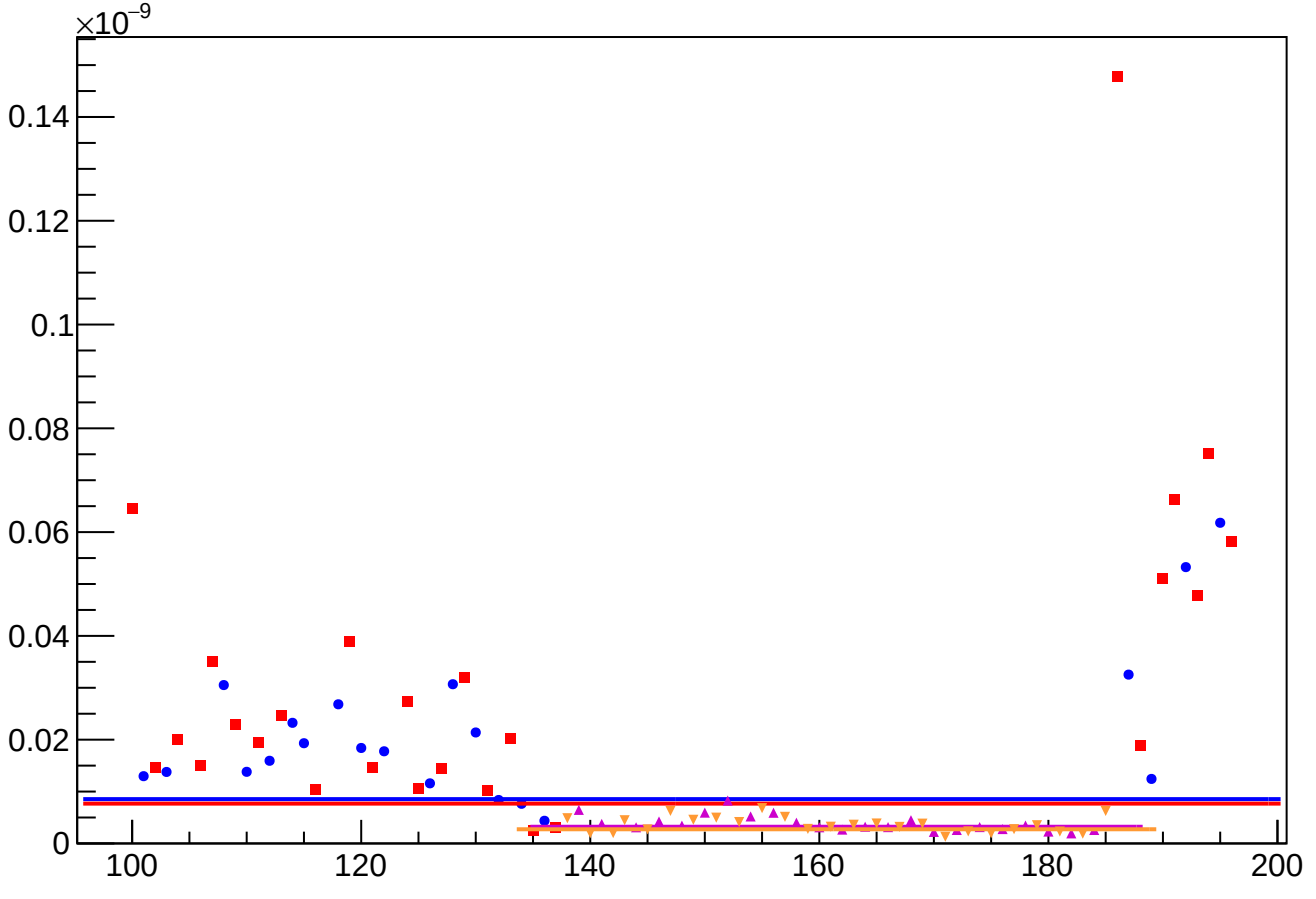
Left: 0.000+/-0.000 $\chi^2$/NDF: 41.2/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 58.8/45

In: -0.000+/-0.000 $\chi^2$/NDF:48.3/42

Out: 0.000+/-0.000 $\chi^2$/NDF:48.3/50

All: 0.000+/-0.000 $\chi^2$/NDF: 100.0/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 3210480.8/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:1923193.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5918344.6/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1355602.1/22

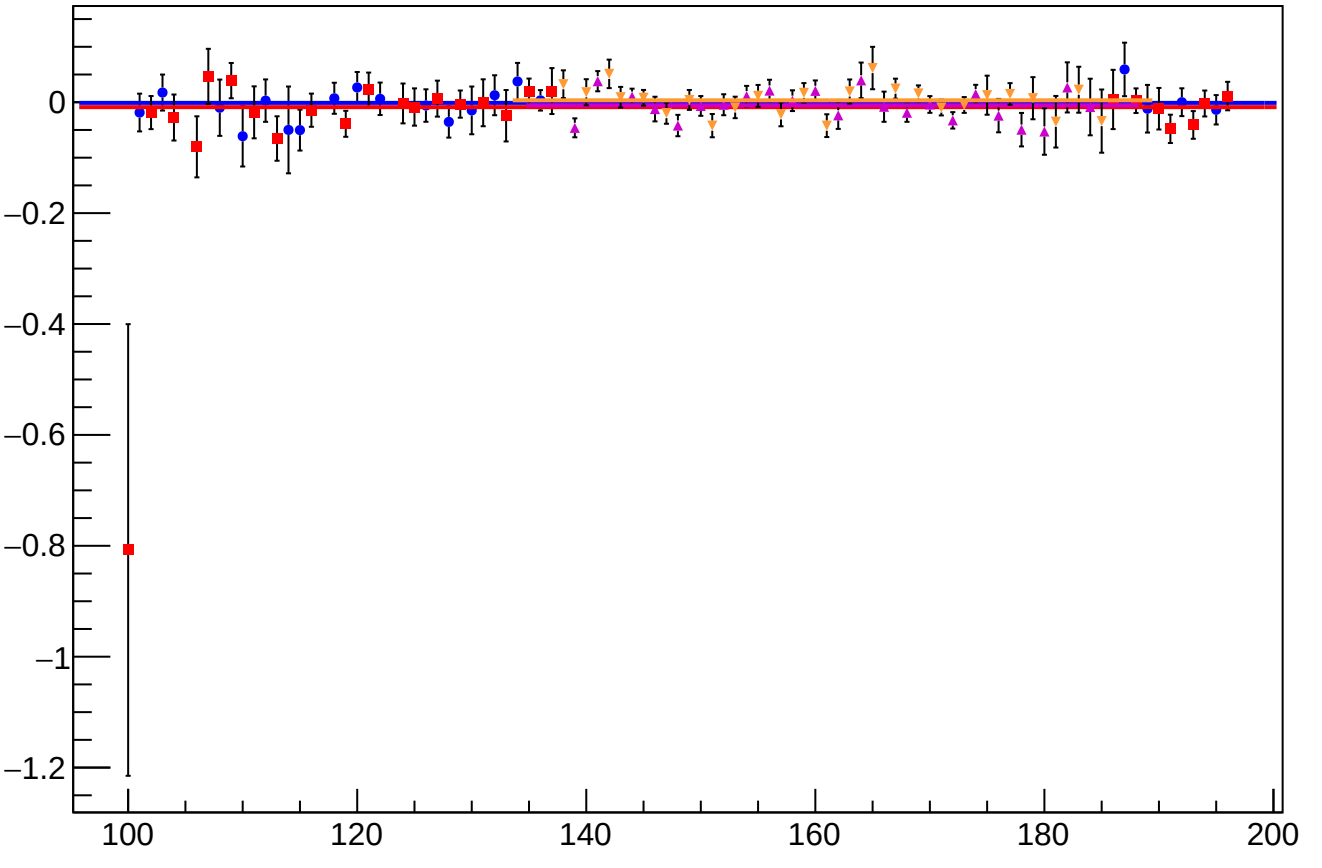
Left: 0.000+/-0.000 $\chi^2$/NDF: 3427530.5/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 9153381.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:6281383.7/42

Out: 0.000+/-0.000 $\chi^2$/NDF:9419188.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 15906905.5/93




Right In: -0.001+/-0.007 $\chi^2$/NDF: 10.1/19

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.9/24

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 21.4/25

Left In: -0.005+/-0.004 $\chi^2$/NDF:33.2/22

Left: -0.001+/-0.003 $\chi^2$/NDF: 62.5/47

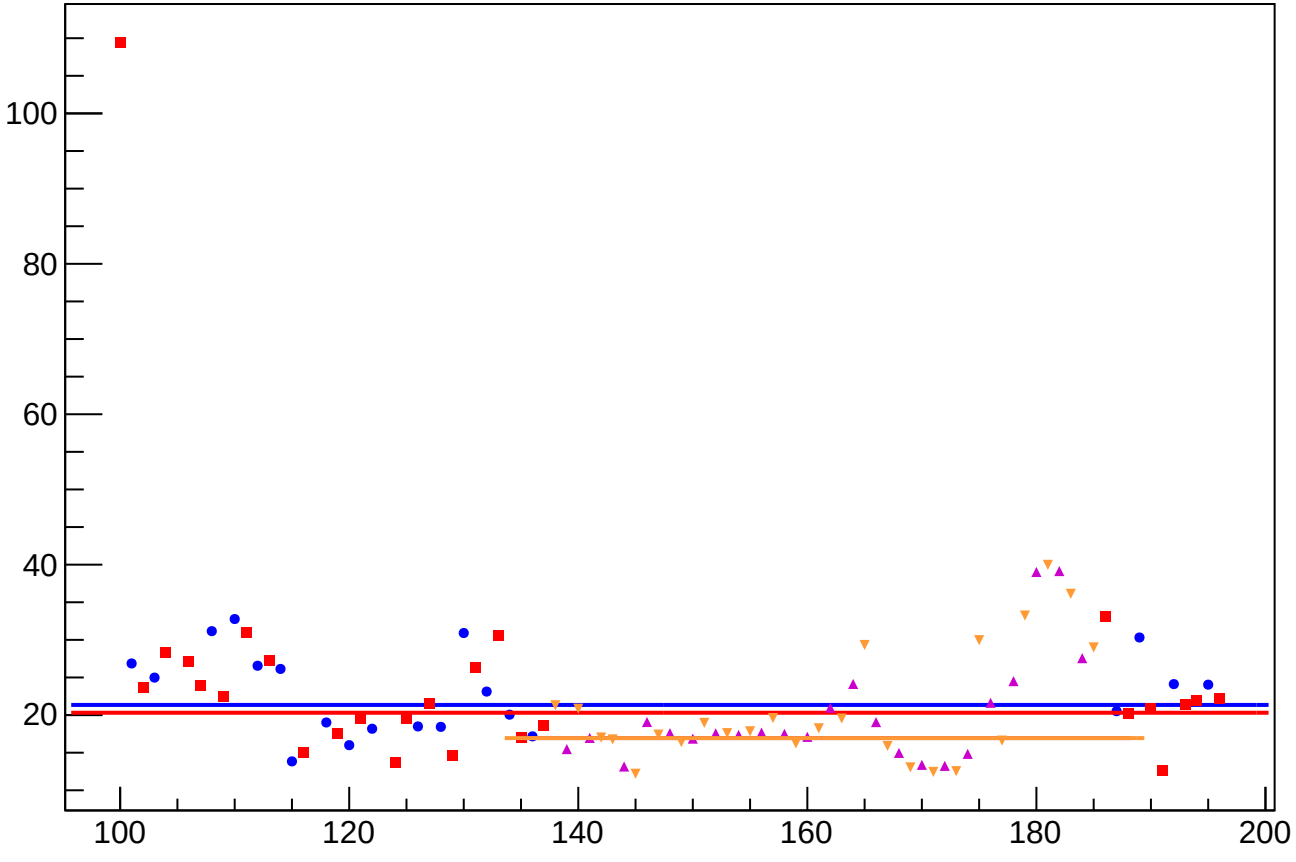
Right: -0.006+/-0.005 $\chi^2$/NDF: 32.1/45

In: -0.004+/-0.004 $\chi^2$/NDF:43.6/42

Out: -0.000+/-0.003 $\chi^2$/NDF:51.1/50

All: -0.002+/-0.002 $\chi^2$/NDF: 95.4/93

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.349+/-0.005 $\chi^2$/NDF: 859787.0/19

Left Out: 16.939+/-0.003 $\chi^2$/NDF:2836877.8/24

Right Out: 20.310+/-0.004 $\chi^2$/NDF: 1187886.6/25

Left In: 16.943+/-0.003 $\chi^2$/NDF:1941845.2/22

Left: 16.941+/-0.002 $\chi^2$/NDF: 4778723.9/47

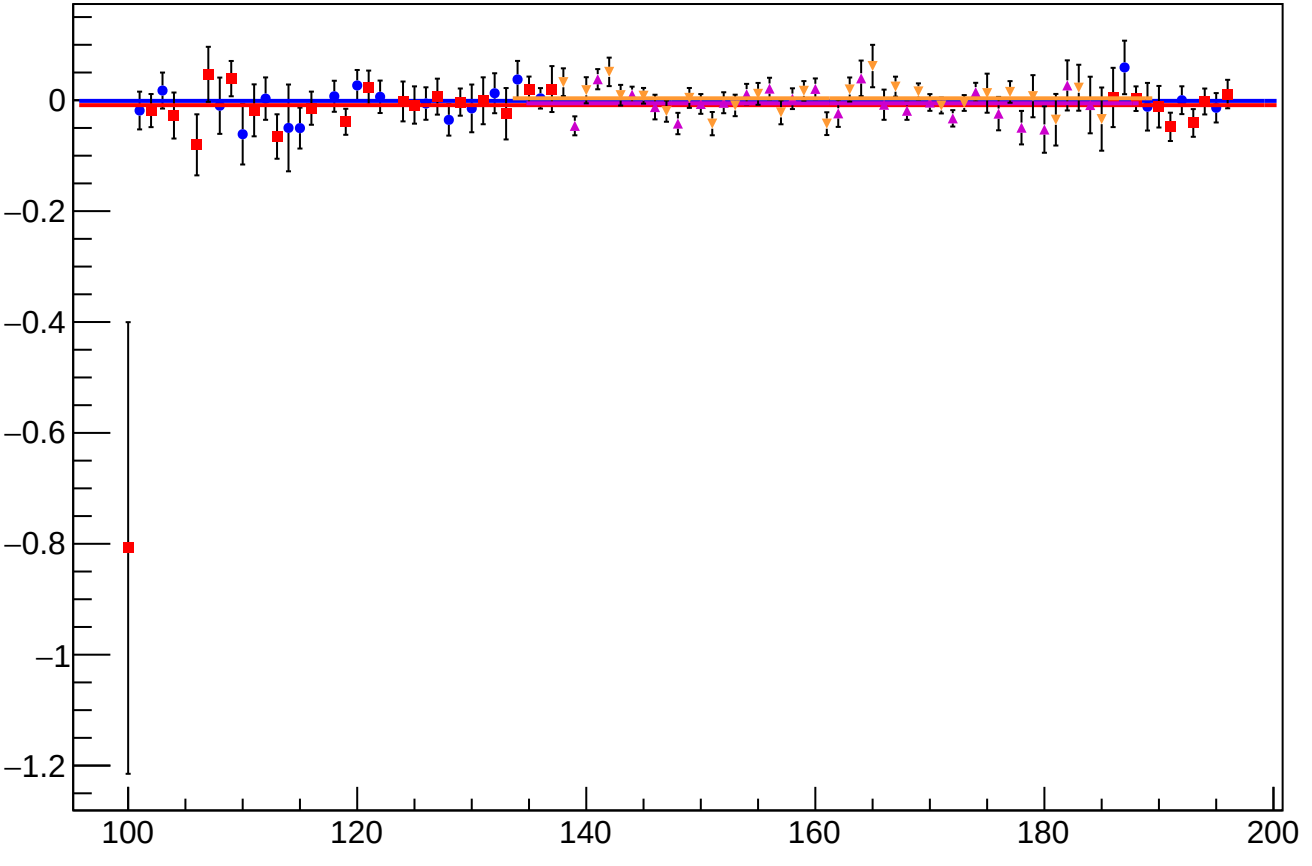
Right: 20.757+/-0.003 $\chi^2$/NDF: 2071503.1/45

In: 18.061+/-0.003 $\chi^2$/NDF:3362912.7/42

Out: 17.952+/-0.002 $\chi^2$/NDF:4432905.0/50

All: 18.003+/-0.002 $\chi^2$/NDF: 7796790.9/93

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.007 $\chi^2$/NDF: 10.1/19

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.9/24

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 21.4/25

Left In: -0.005+/-0.004 $\chi^2$/NDF:33.2/22

Left: -0.001+/-0.003 $\chi^2$/NDF: 62.5/47

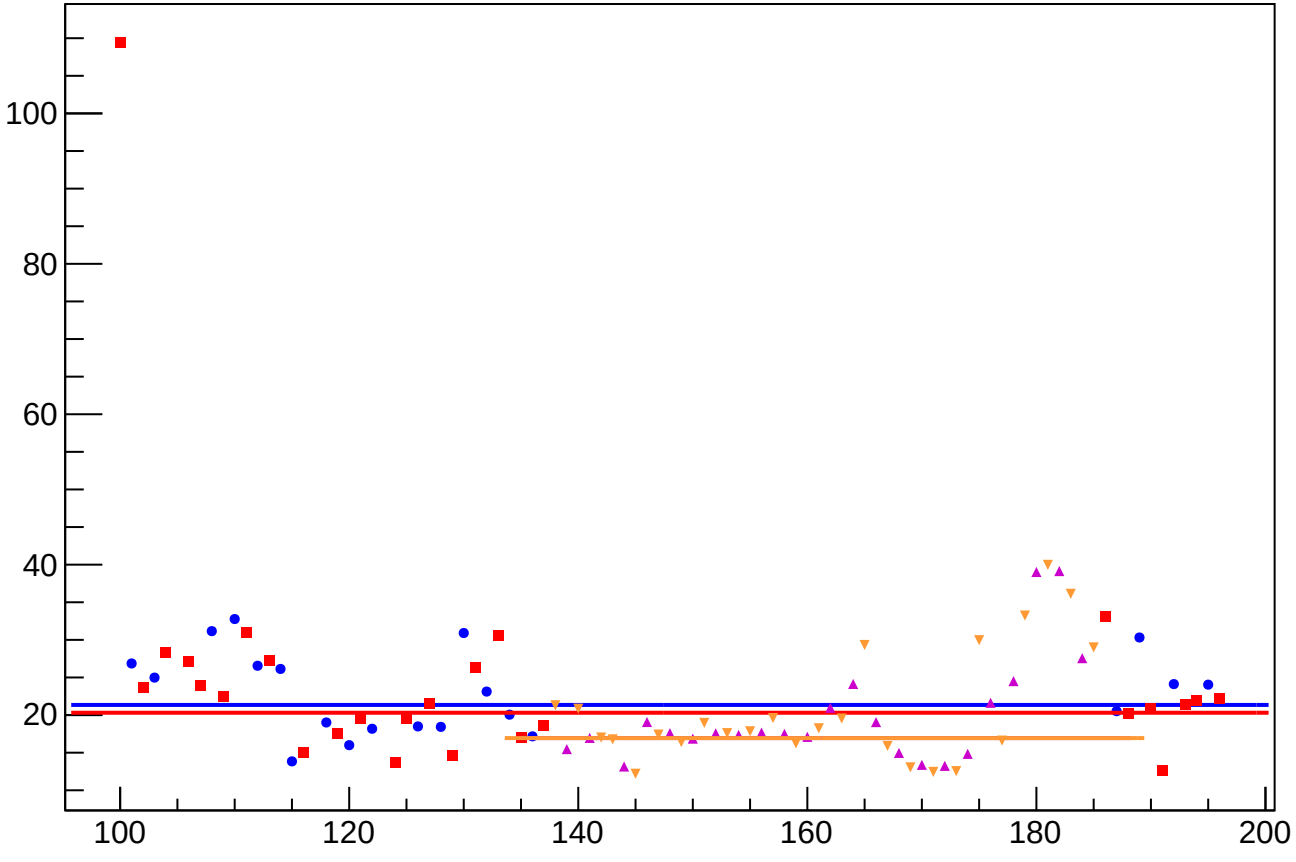
Right: -0.006+/-0.005 $\chi^2$/NDF: 32.1/45

In: -0.004+/-0.004 $\chi^2$/NDF:43.6/42

Out: -0.000+/-0.003 $\chi^2$/NDF:51.1/50

All: -0.002+/-0.002 $\chi^2$/NDF: 95.4/93

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.349+/-0.005 $\chi^2$/NDF: 859787.0/19

Left Out: 16.939+/-0.003 $\chi^2$/NDF:2836877.8/24

Right Out: 20.310+/-0.004 $\chi^2$/NDF: 1187886.6/25

Left In: 16.943+/-0.003 $\chi^2$/NDF:1941845.2/22

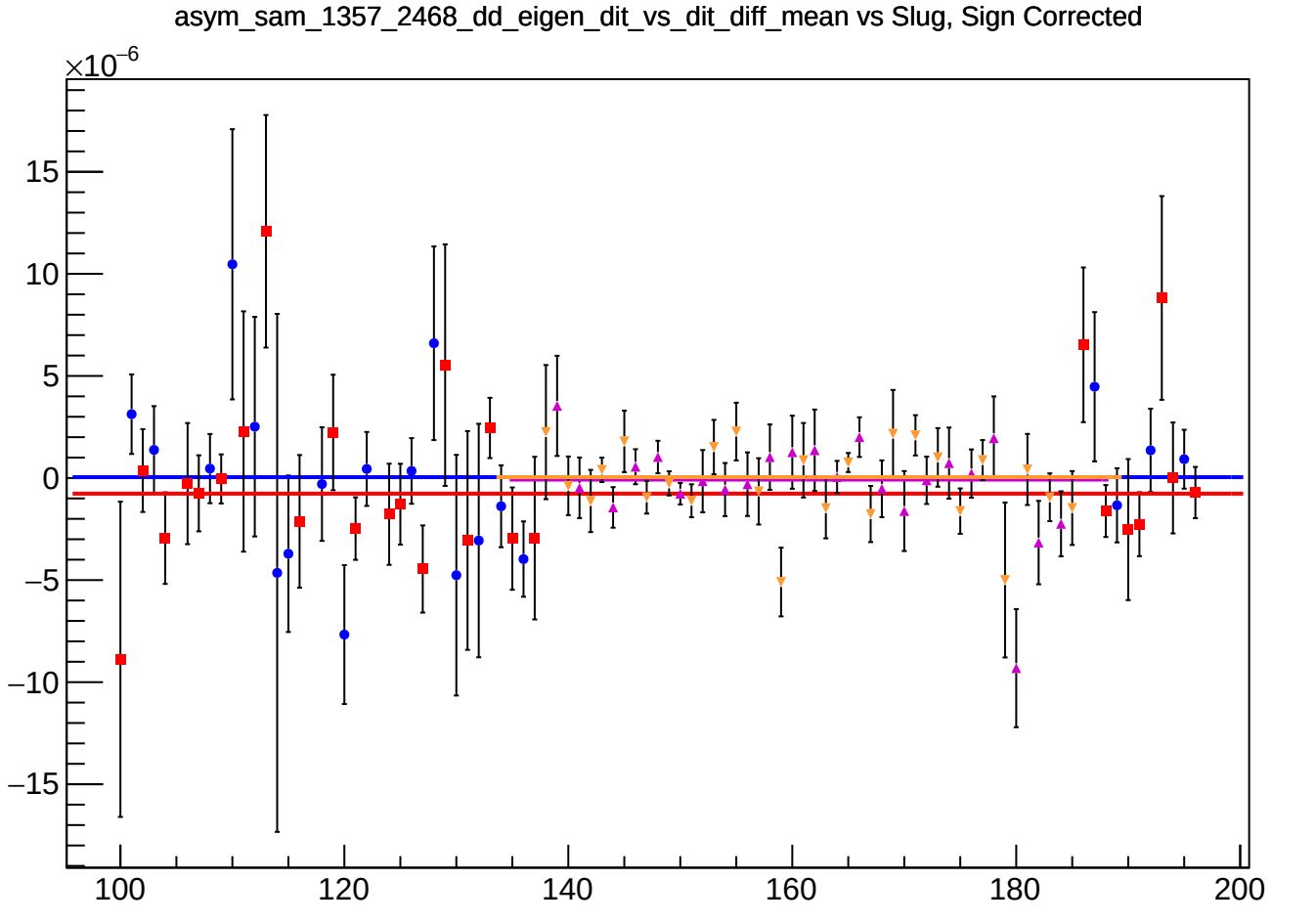
Left: 16.941+/-0.002 $\chi^2$/NDF: 4778723.9/47

Right: 20.757+/-0.003 $\chi^2$/NDF: 2071503.1/45

In: 18.061+/-0.003 $\chi^2$/NDF:3362912.7/42

Out: 17.952+/-0.002 $\chi^2$/NDF:4432905.0/50

All: 18.003+/-0.002 $\chi^2$/NDF: 7796790.9/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 22.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:37.2/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 30.1/25

Left In: -0.000+/-0.000 $\chi^2$/NDF:31.0/22

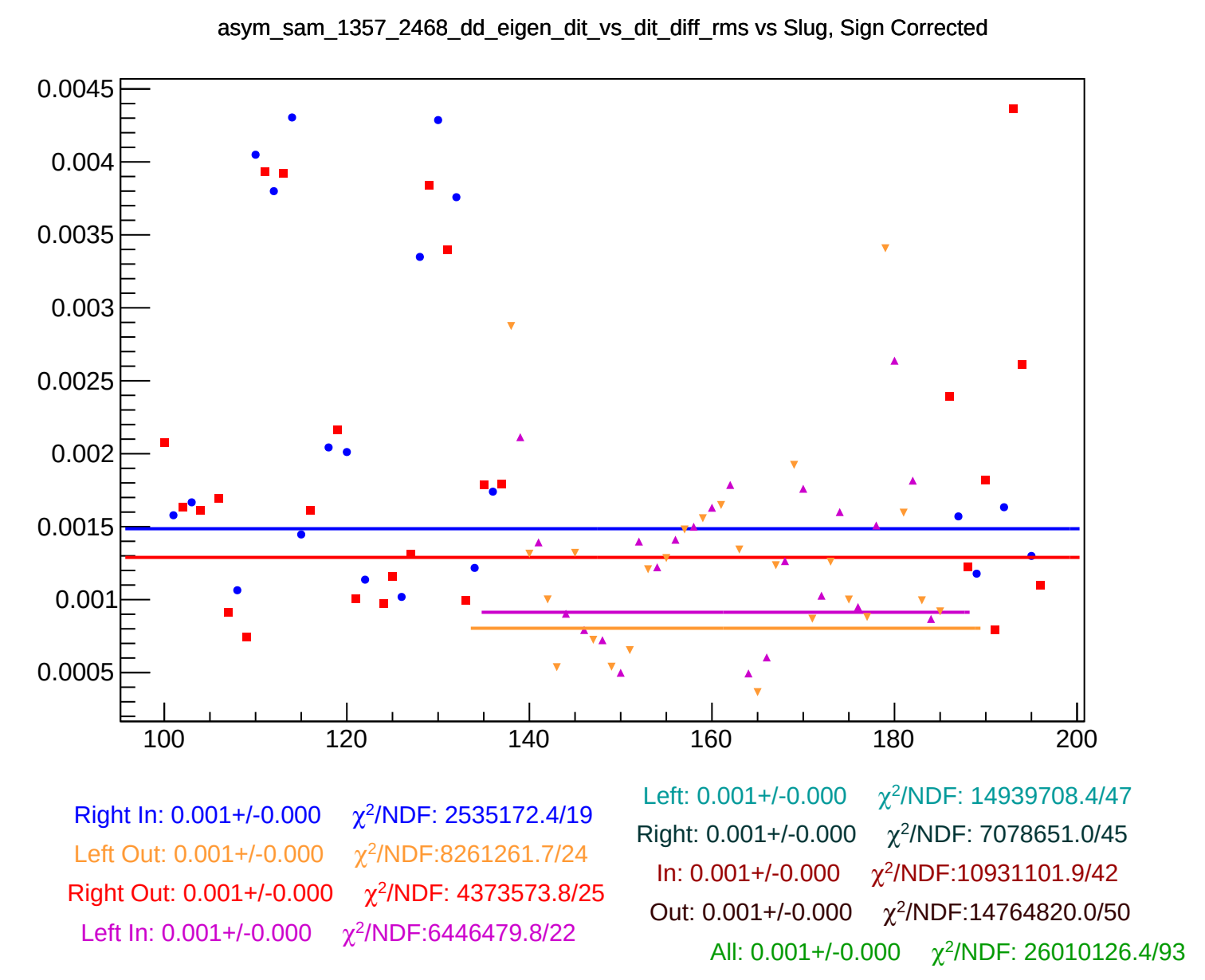
Left: -0.000+/-0.000 $\chi^2$/NDF: 68.3/47

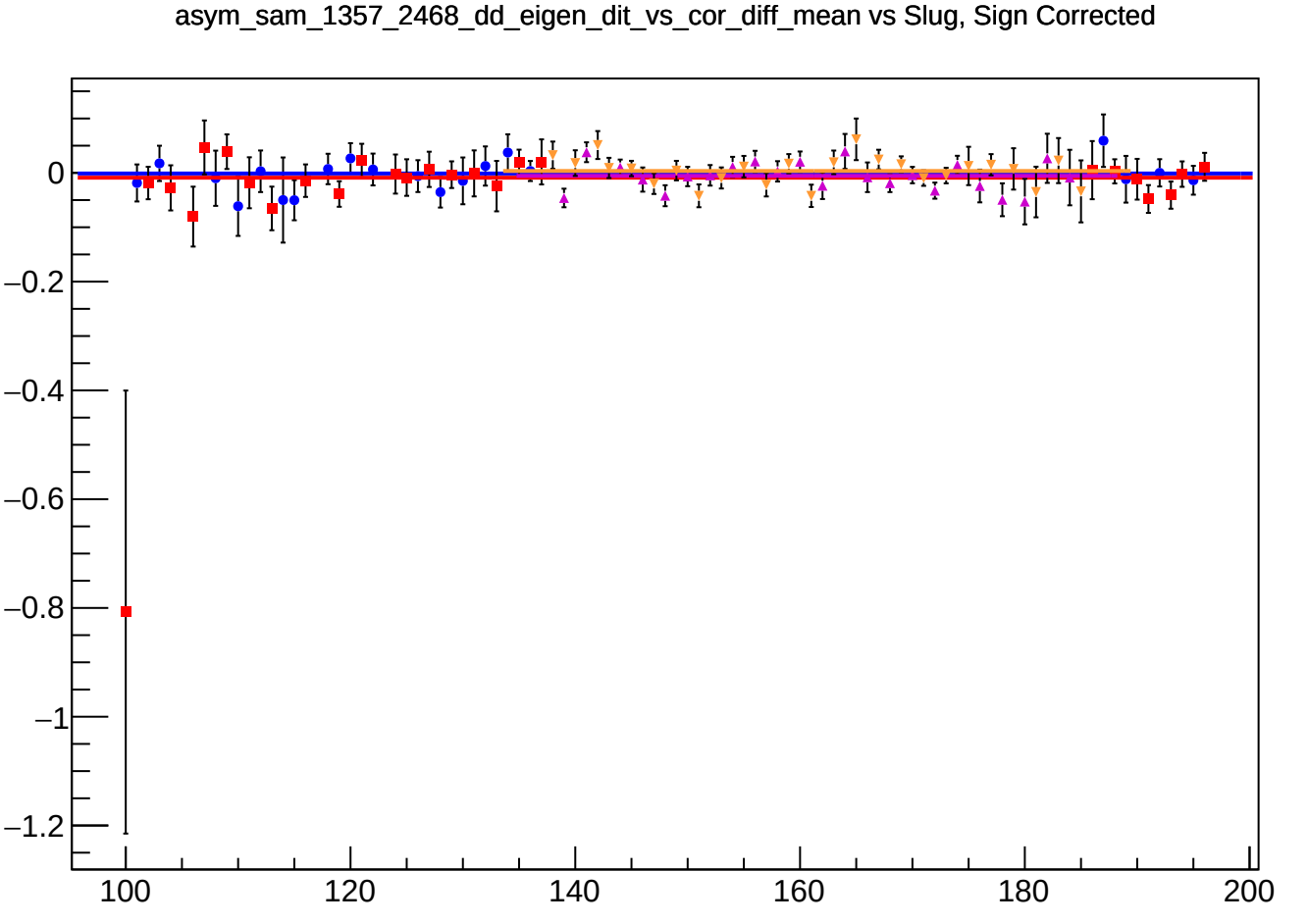
Right: -0.000+/-0.000 $\chi^2$/NDF: 54.5/45

In: -0.000+/-0.000 $\chi^2$/NDF:53.9/42

Out: -0.000+/-0.000 $\chi^2$/NDF:70.2/50

All: -0.000+/-0.000 $\chi^2$/NDF: 124.2/93


asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
100
120
140
160
180
200
Right In: 0.001+/-0.000 χ²/NDF: 2535172.4/19
Left Out: 0.001+/-0.000 χ²/NDF:8261261.7/24
Right Out: 0.001+/-0.000 χ²/NDF: 4373573.8/25
Left In: 0.001+/-0.000 χ²/NDF:6446479.8/22
Left: 0.001+/-0.000 χ²/NDF: 14939708.4/47
Right: 0.001+/-0.000 χ²/NDF: 7078651.0/45
In: 0.001+/-0.000 χ²/NDF:10931101.9/42
Out: 0.001+/-0.000 χ²/NDF:14764820.0/50
All: 0.001+/-0.000 χ²/NDF: 26010126.4/93




Right In: -0.001+/-0.007 $\chi^2$/NDF: 10.1/19

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.9/24

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 21.4/25

Left In: -0.005+/-0.004 $\chi^2$/NDF:33.2/22

Left: -0.001+/-0.003 $\chi^2$/NDF: 62.5/47

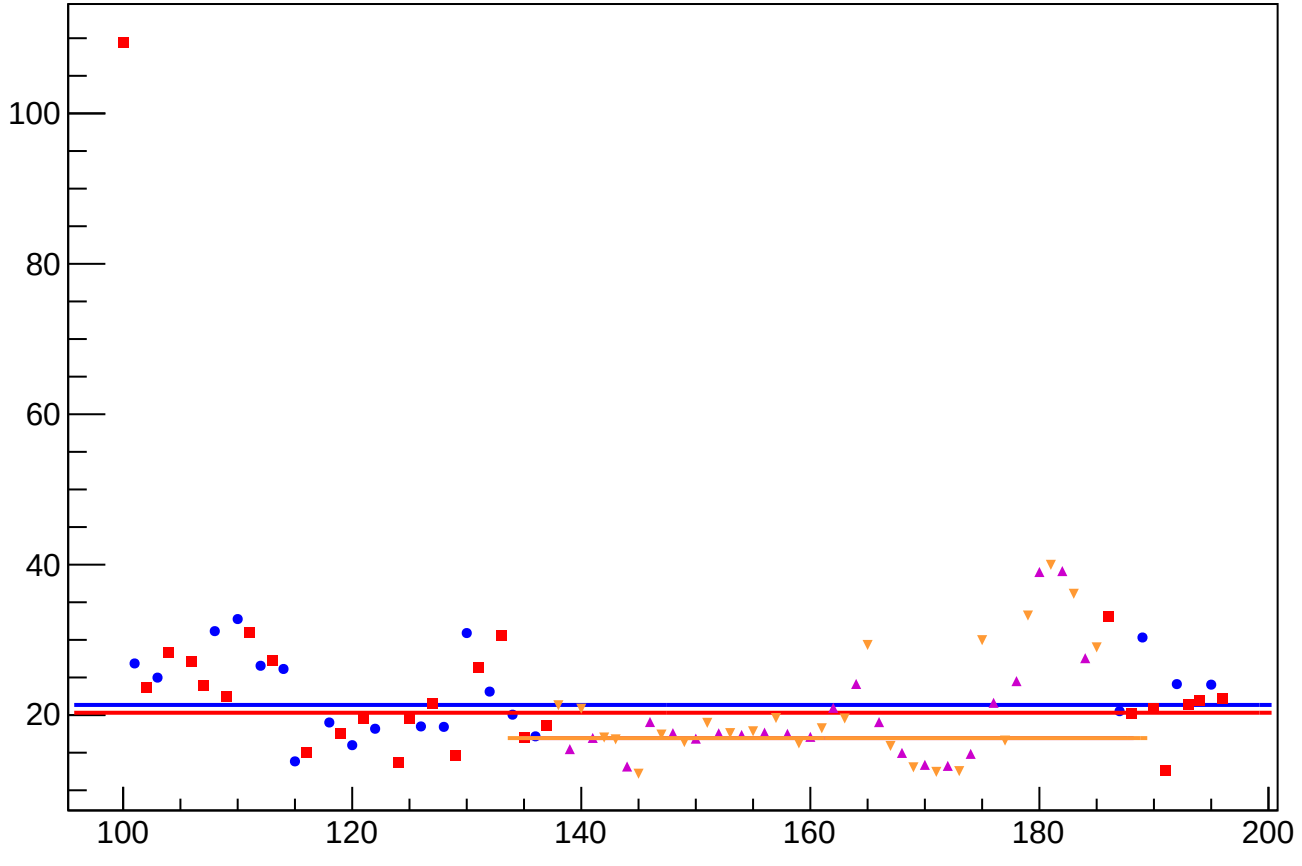
Right: -0.006+/-0.005 $\chi^2$/NDF: 32.1/45

In: -0.004+/-0.004 $\chi^2$/NDF:43.6/42

Out: -0.000+/-0.003 $\chi^2$/NDF:51.0/50

All: -0.002+/-0.002 $\chi^2$/NDF: 95.3/93

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.349+/-0.005 $\chi^2$/NDF: 859711.8/19

Left Out: 16.939+/-0.003 $\chi^2$/NDF:2836863.1/24

Right Out: 20.310+/-0.004 $\chi^2$/NDF: 1187888.4/25

Left In: 16.943+/-0.003 $\chi^2$/NDF:1941834.9/22

Left: 16.941+/-0.002 $\chi^2$/NDF: 4778698.8/47

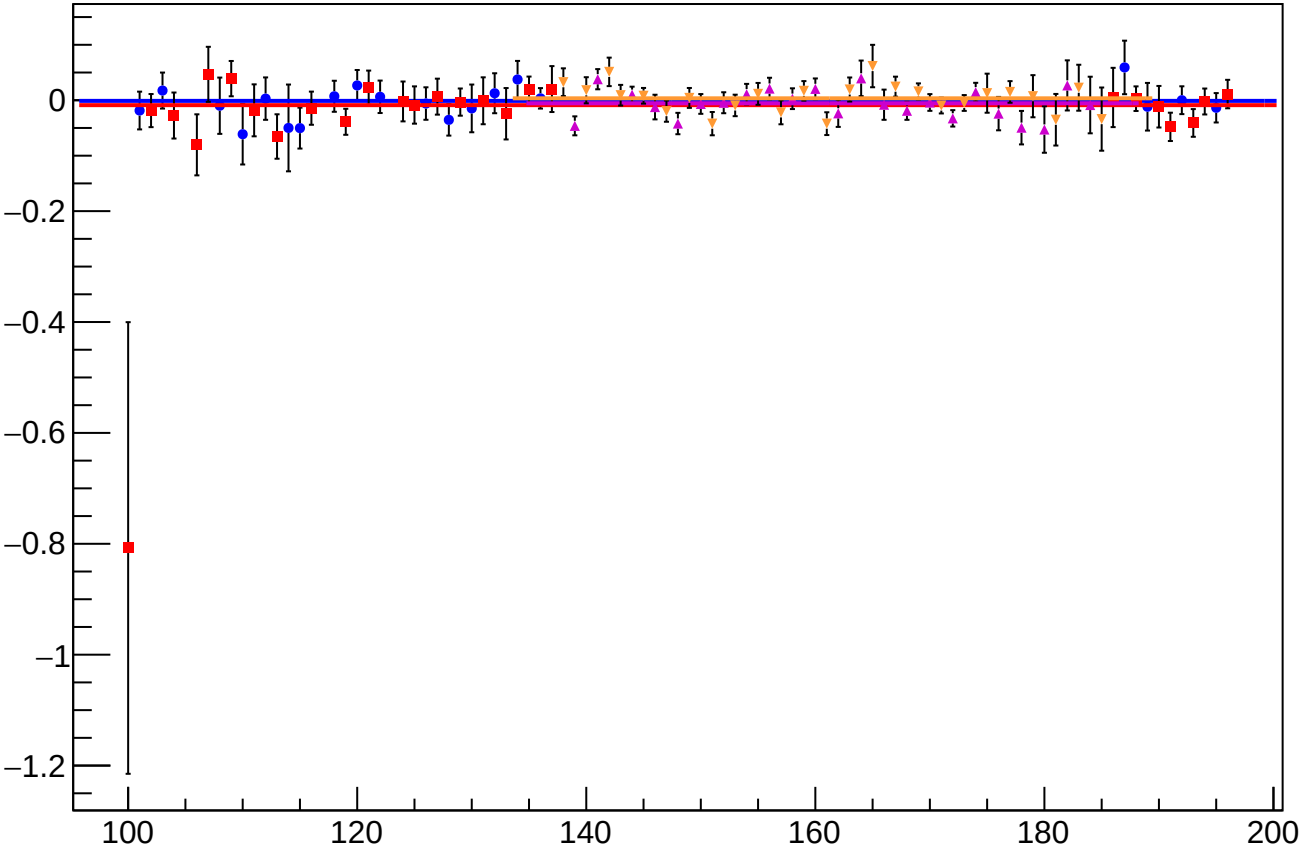
Right: 20.757+/-0.003 $\chi^2$/NDF: 2071430.2/45

In: 18.061+/-0.003 $\chi^2$/NDF:3362703.1/42

Out: 17.952+/-0.002 $\chi^2$/NDF:4432755.0/50

All: 18.003+/-0.002 $\chi^2$/NDF: 7796430.8/93

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: -0.001+/-0.007 $\chi^2$/NDF: 10.1/19

Left Out: 0.003+/-0.004 $\chi^2$/NDF:26.9/24

Right Out: -0.009+/-0.006 $\chi^2$/NDF: 21.4/25

Left In: -0.005+/-0.004 $\chi^2$/NDF:33.2/22

Left: -0.001+/-0.003 $\chi^2$/NDF: 62.5/47

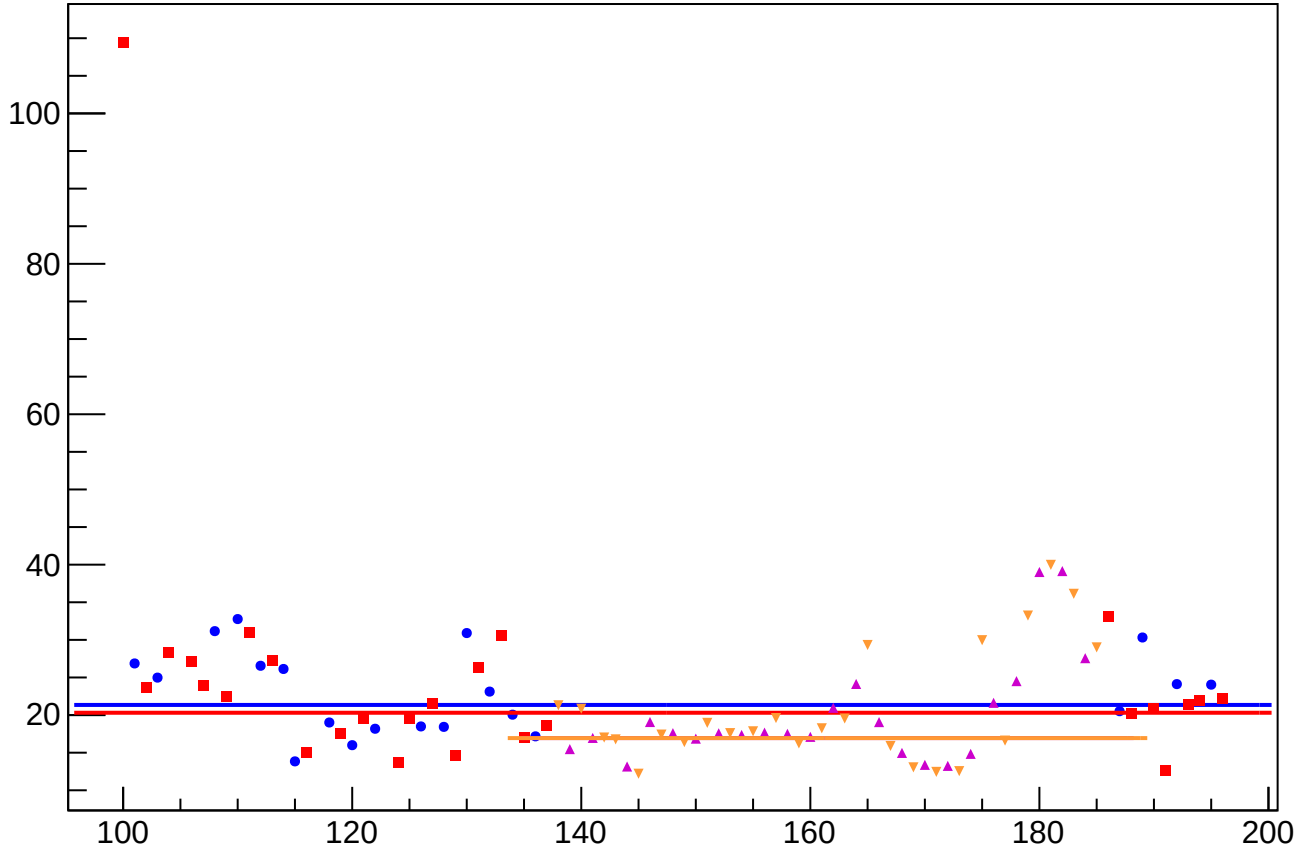
Right: -0.006+/-0.005 $\chi^2$/NDF: 32.1/45

In: -0.004+/-0.004 $\chi^2$/NDF:43.6/42

Out: -0.000+/-0.003 $\chi^2$/NDF:51.0/50

All: -0.002+/-0.002 $\chi^2$/NDF: 95.3/93

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 21.349+/-0.005 $\chi^2$/NDF: 859711.8/19

Left Out: 16.939+/-0.003 $\chi^2$/NDF:2836863.1/24

Right Out: 20.310+/-0.004 $\chi^2$/NDF: 1187888.4/25

Left In: 16.943+/-0.003 $\chi^2$/NDF:1941834.9/22

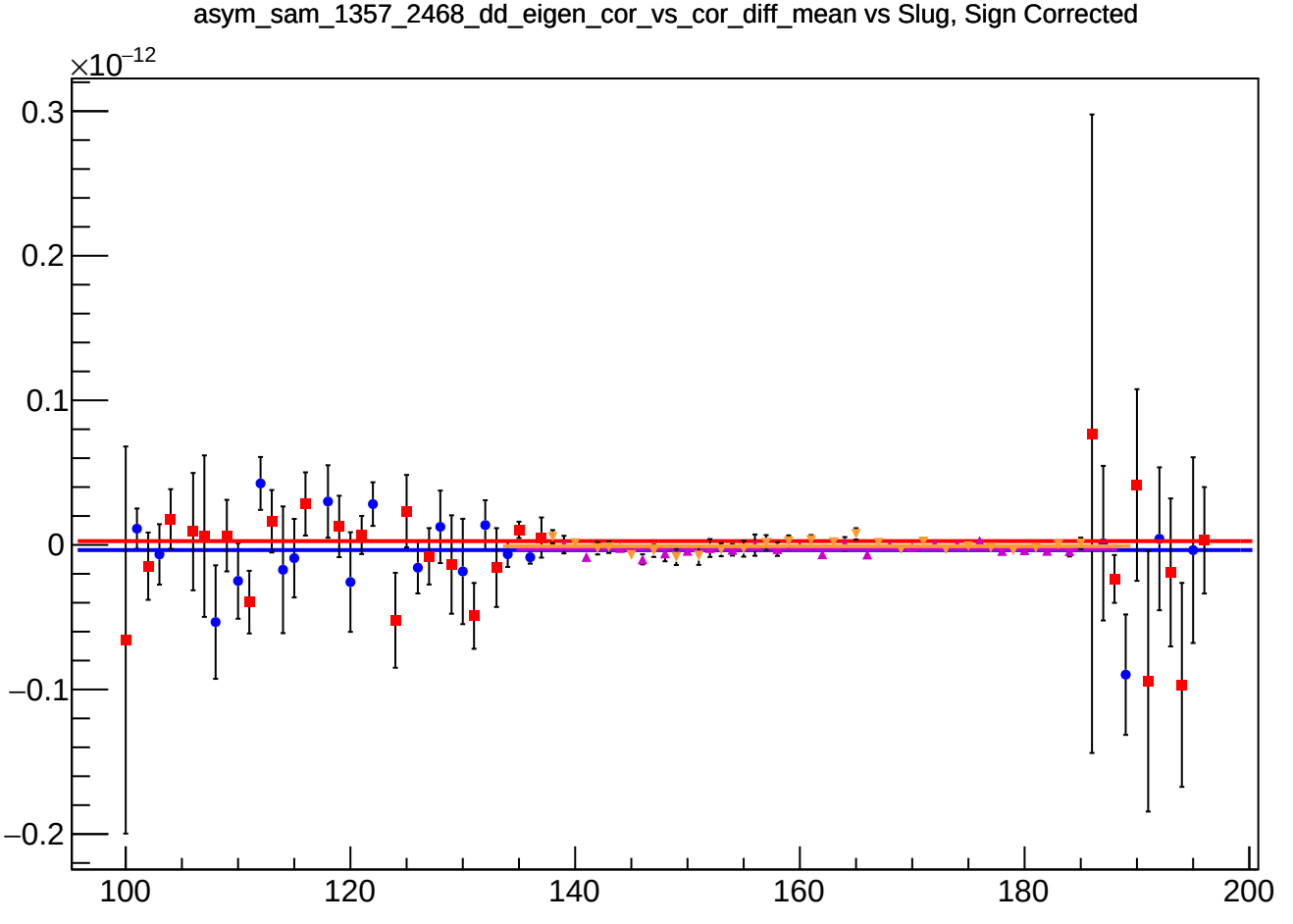
Left: 16.941+/-0.002 $\chi^2$/NDF: 4778698.8/47

Right: 20.757+/-0.003 $\chi^2$/NDF: 2071430.2/45

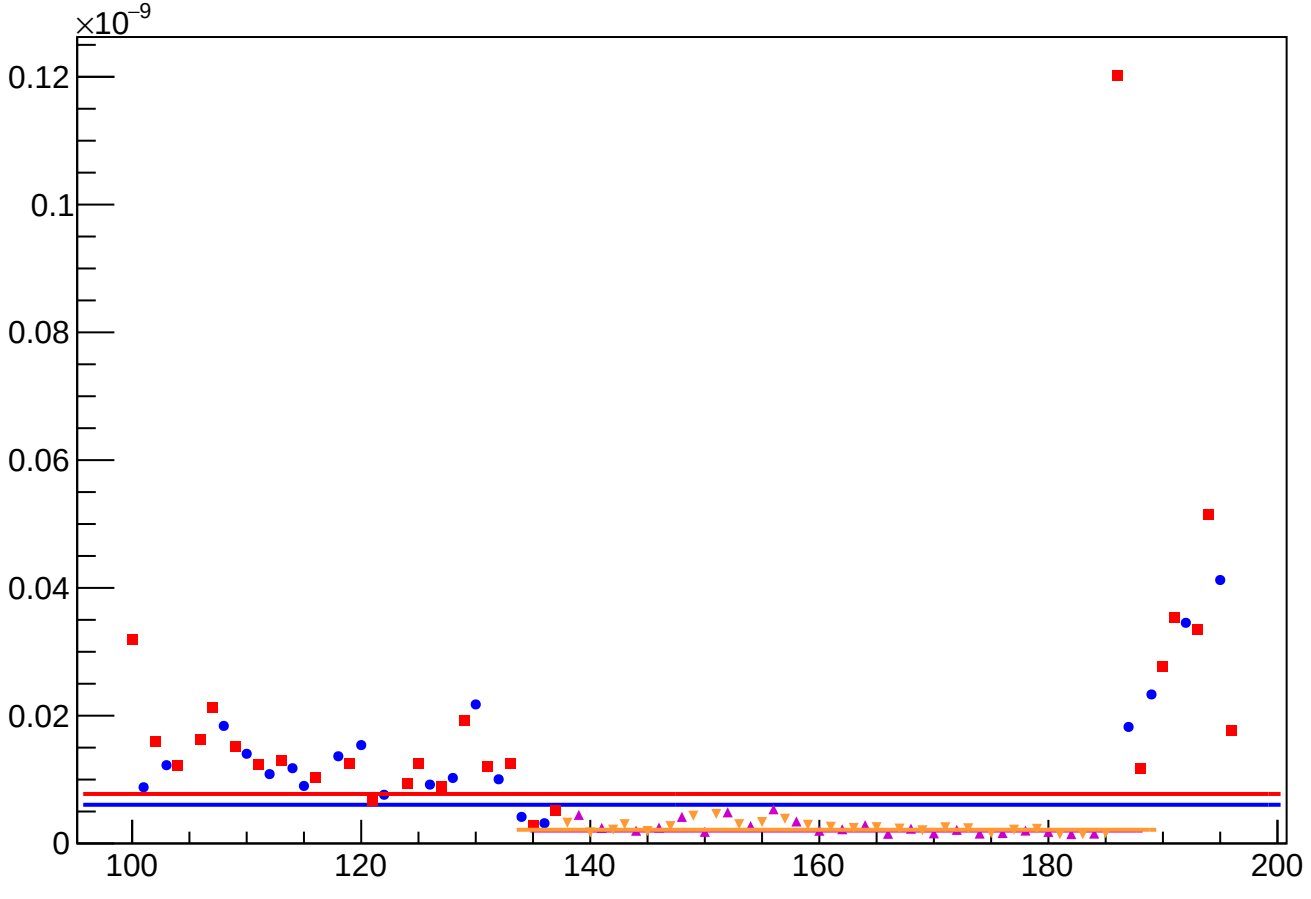
In: 18.061+/-0.003 $\chi^2$/NDF:3362703.1/42

Out: 17.952+/-0.002 $\chi^2$/NDF:4432755.0/50

All: 18.003+/-0.002 $\chi^2$/NDF: 7796430.8/93


asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs Slug, Sign Corrected
×10⁻¹²
0.3
0.2
0.1
0
−0.1
−0.2
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 24.3/19
Left Out: -0.000+/-0.000 χ²/NDF:23.6/24
Right Out: 0.000+/-0.000 χ²/NDF: 25.1/25
Left In: -0.000+/-0.000 χ²/NDF:23.1/22
Left: -0.000+/-0.000 χ²/NDF: 51.6/47
Right: -0.000+/-0.000 χ²/NDF: 51.0/45
In: -0.000+/-0.000 χ²/NDF:47.5/42
Out: -0.000+/-0.000 χ²/NDF:49.6/50
All: -0.000+/-0.000 χ²/NDF: 102.8/93

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 0.000+/-0.000 $\chi^2$/NDF: 4442857.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2184835.6/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 5608666.7/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:2375362.0/22

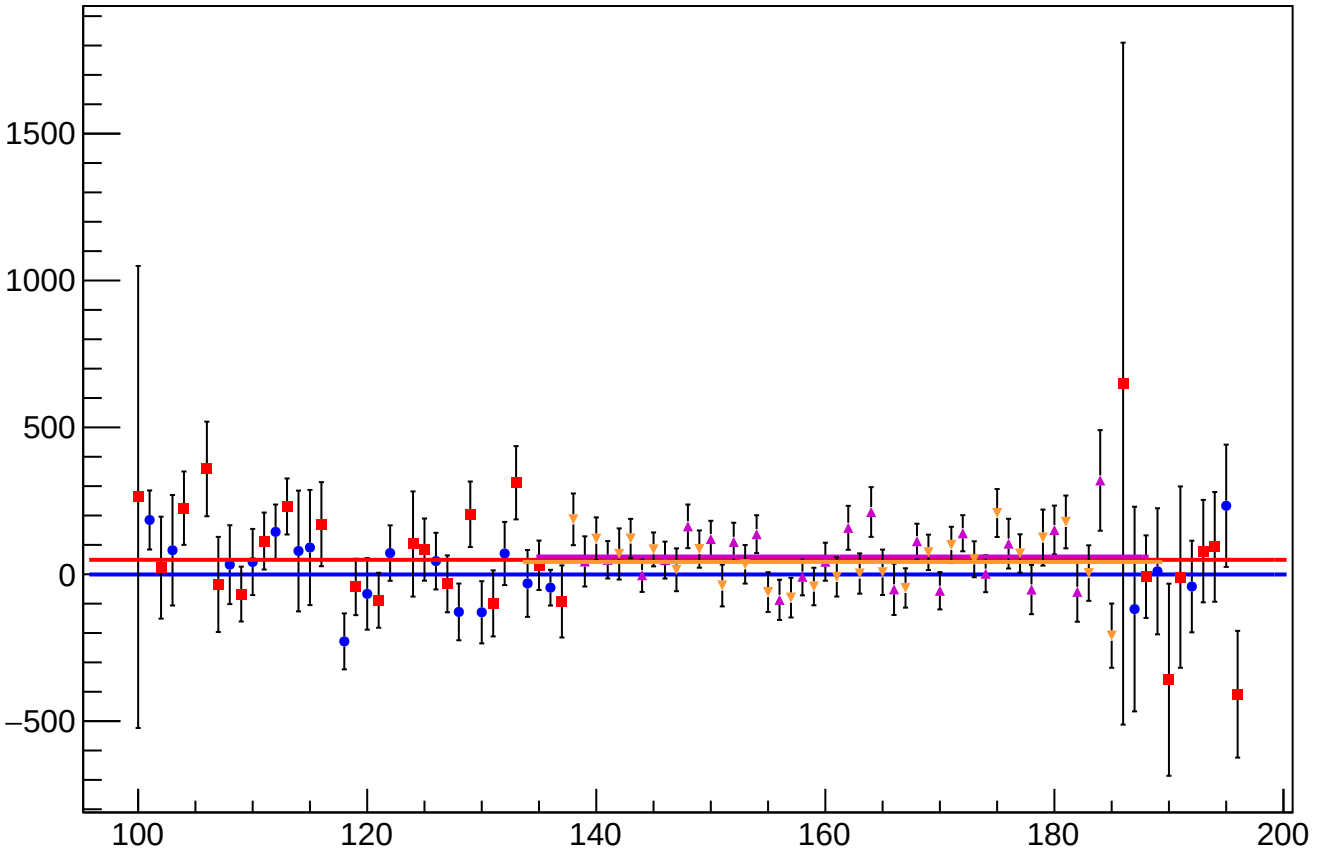
Left: 0.000+/-0.000 $\chi^2$/NDF: 4598686.8/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 10287472.1/45

In: 0.000+/-0.000 $\chi^2$/NDF:9821443.9/42

Out: 0.000+/-0.000 $\chi^2$/NDF:12198226.2/50

All: 0.000+/-0.000 $\chi^2$/NDF: 22065888.6/93




Right In: -0.718+/-25.404 $\chi^2$/NDF: 19.2/19

Left Out: 42.012+/-14.181 $\chi^2$/NDF:32.0/24

Right Out: 49.252+/-25.070 $\chi^2$/NDF: 32.5/25

Left In: 60.376+/-14.714 $\chi^2$/NDF:32.2/22

Left: 50.856+/-10.211 $\chi^2$/NDF: 65.0/47

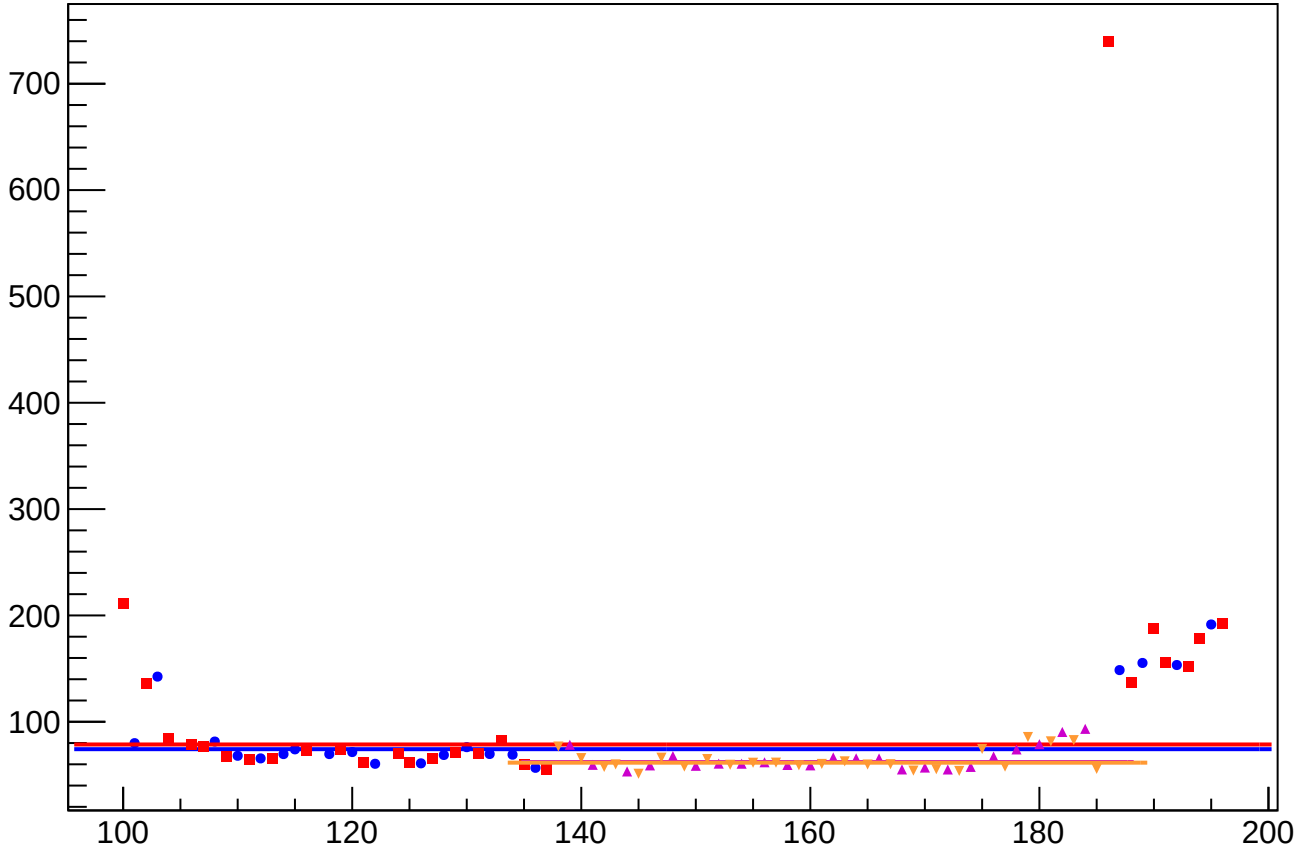
Right: 24.597+/-17.844 $\chi^2$/NDF: 53.6/45

In: 45.029+/-12.732 $\chi^2$/NDF:55.7/42

Out: 43.767+/-12.343 $\chi^2$/NDF:64.6/50

All: 44.379+/-8.862 $\chi^2$/NDF: 120.3/93

# reg_asym_sam_12345678_avg_rms vs Slug, Sign Corrected




Right In: 74.228+/-0.018 $\chi^2$/NDF: 2094885.2/19

Left Out: 61.544+/-0.010 $\chi^2$/NDF:637834.8/24

Right Out: 78.653+/-0.018 $\chi^2$/NDF: 3570519.4/25

Left In: 62.144+/-0.010 $\chi^2$/NDF:596754.9/22

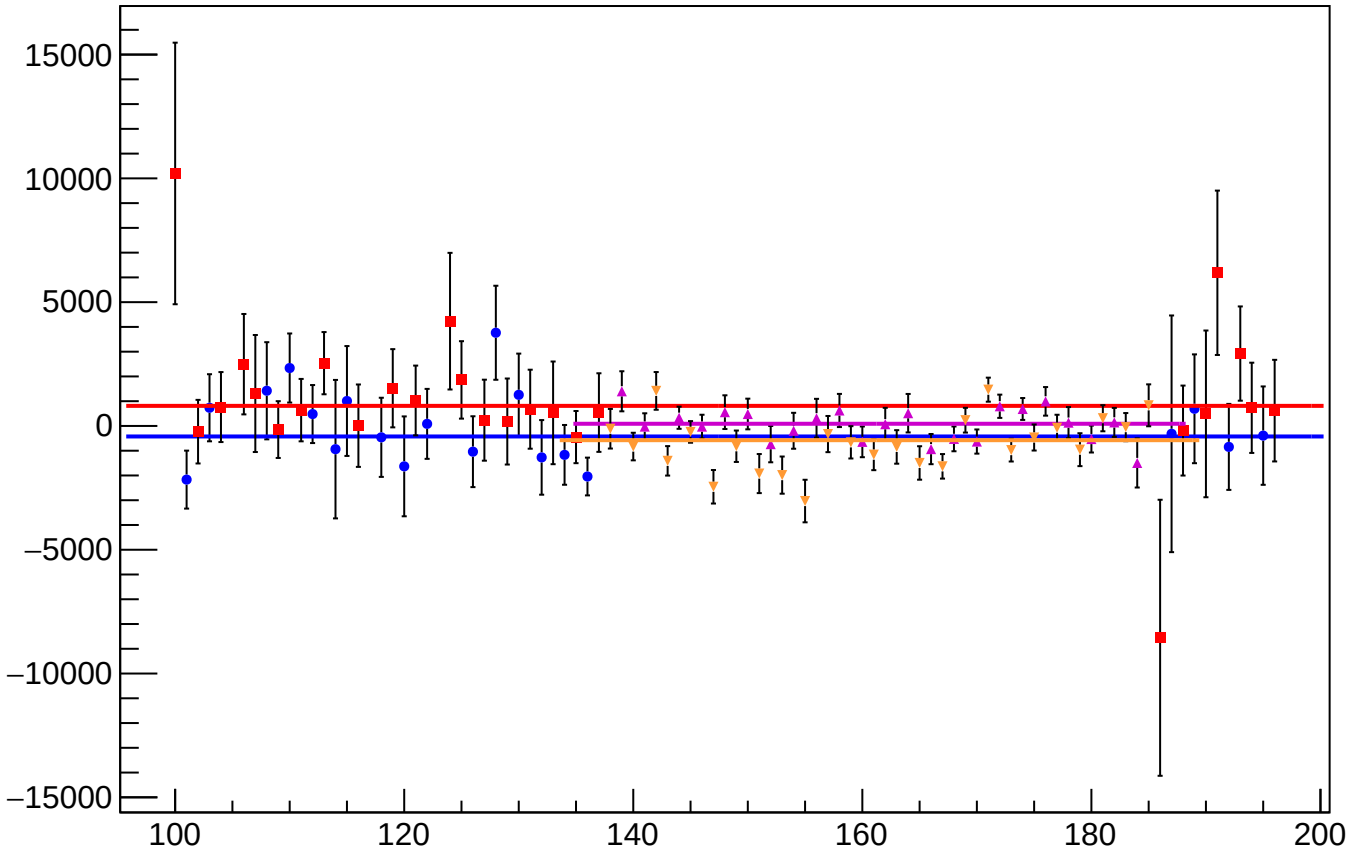
Left: 61.833+/-0.007 $\chi^2$/NDF: 1236316.2/47

Right: 76.470+/-0.013 $\chi^2$/NDF: 5696141.1/45

In: 65.180+/-0.009 $\chi^2$/NDF:3030492.4/42

Out: 65.691+/-0.009 $\chi^2$/NDF:4914005.9/50

All: 65.444+/-0.006 $\chi^2$/NDF: 7946161.6/93




Right In: -424.665+/-332.383 $\chi^2$/NDF: 20.9/19

Left Out: -574.818+/-119.736 $\chi^2$/NDF:68.8/24

Right Out: 811.346+/-327.010 $\chi^2$/NDF: 18.3/25

Left In: 88.334+/-122.492 $\chi^2$/NDF:24.6/22

Left: -250.787+/-85.624 $\chi^2$/NDF: 108.4/47

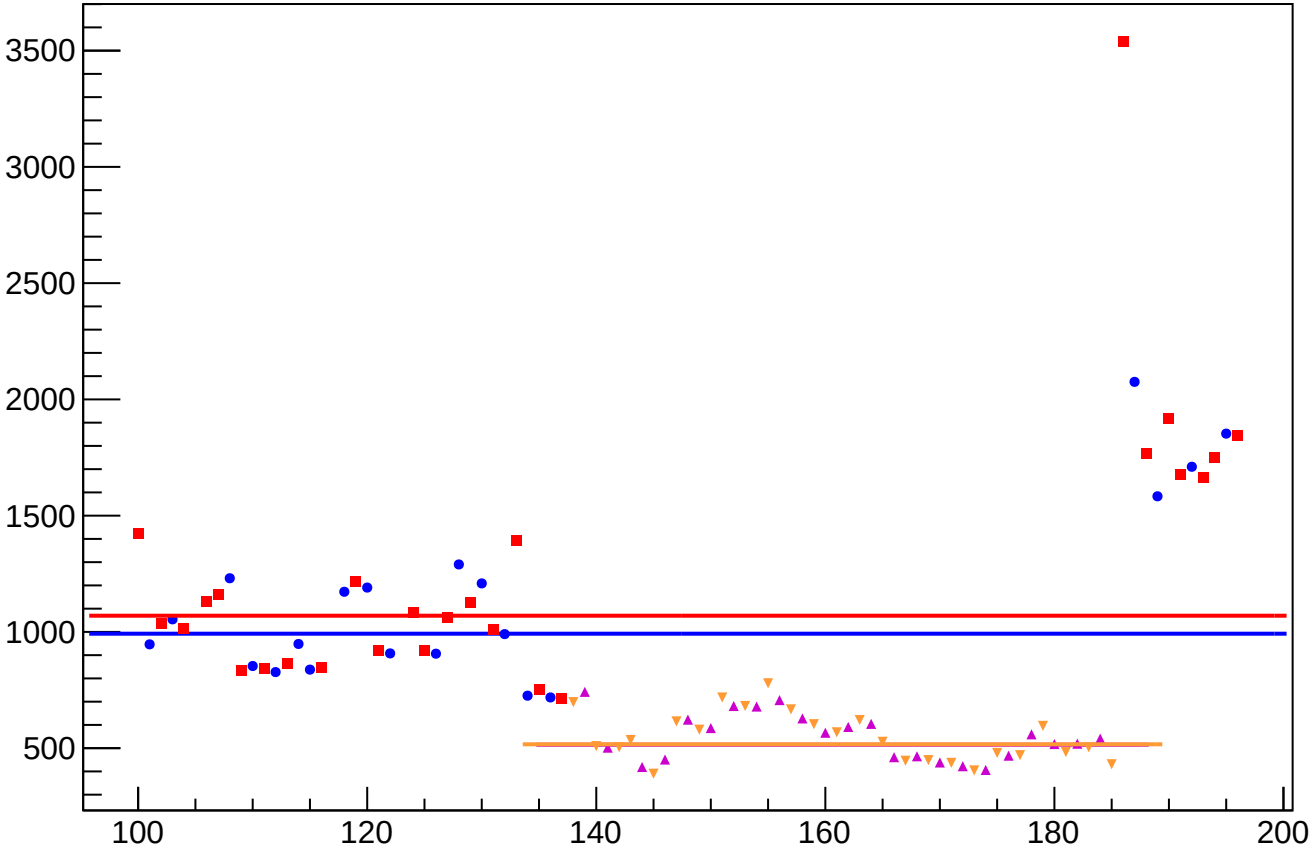
Right: 203.413+/-233.107 $\chi^2$/NDF: 46.2/45

In: 26.993+/-114.936 $\chi^2$/NDF:47.6/42

Out: -410.946+/-112.436 $\chi^2$/NDF:103.0/50

All: -196.791+/-80.374 $\chi^2$/NDF: 157.9/93

asym_sam_12345678_avg_reg_correction_rms vs Slug, Sign Corrected




Right In: 992.346+/-0.235 $\chi^2$/NDF: 1568820.1/19

Left Out: 516.635+/-0.085 $\chi^2$/NDF:1265161.0/24

Right Out: 1069.722+/-0.231 $\chi^2$/NDF: 2294599.9/25

Left In: 514.781+/-0.087 $\chi^2$/NDF:1120436.1/22

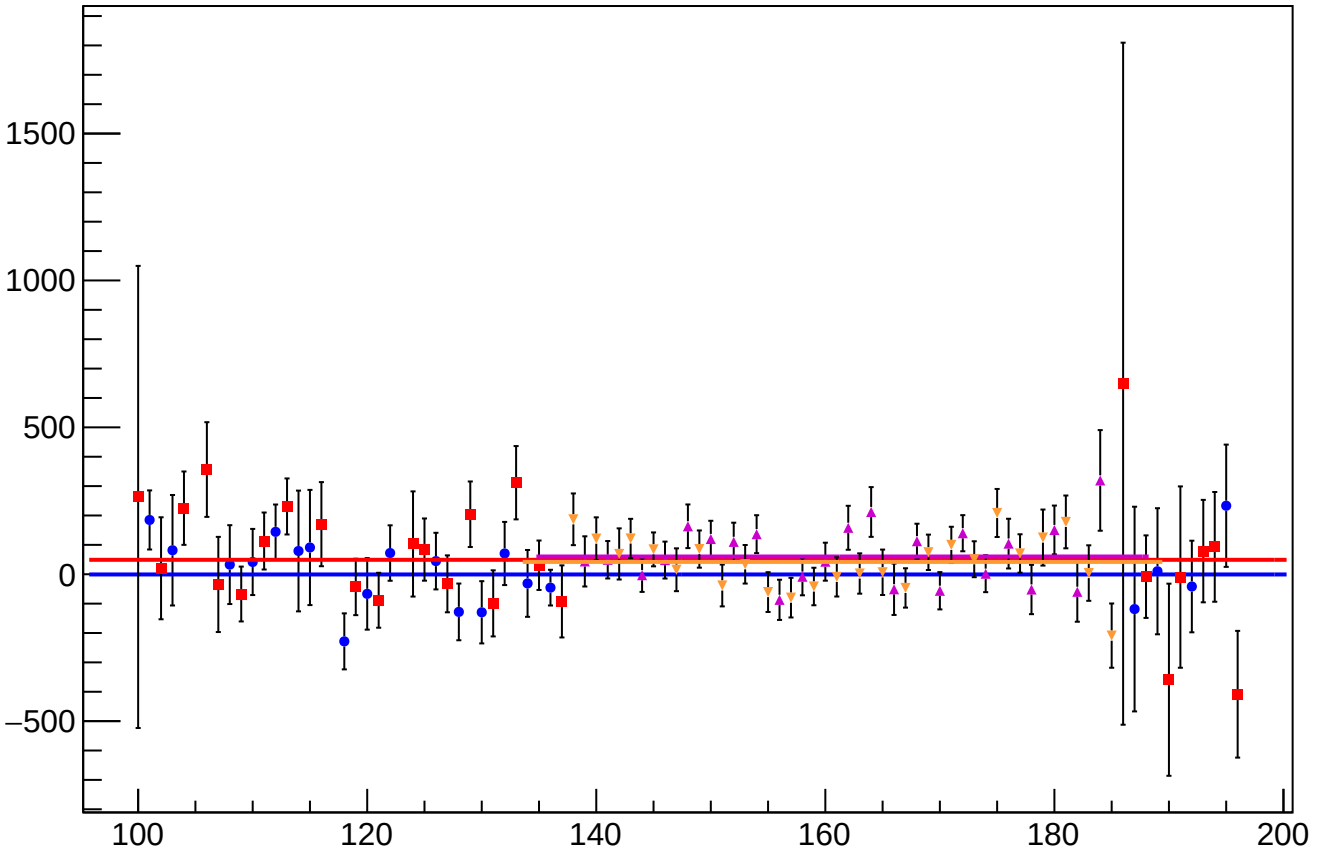
Left: 515.729+/-0.061 $\chi^2$/NDF: 2385831.5/47

Right: 1031.665+/-0.165 $\chi^2$/NDF: 3918496.1/45

In: 571.885+/-0.081 $\chi^2$/NDF:6324302.1/42

Out: 582.021+/-0.080 $\chi^2$/NDF:8604704.6/50

All: 577.065+/-0.057 $\chi^2$/NDF: 14936955.3/93




Right In: -0.725+/-25.404 $\chi^2$/NDF: 19.2/19

Left Out: 42.017+/-14.181 $\chi^2$/NDF:32.0/24

Right Out: 49.139+/-25.071 $\chi^2$/NDF: 32.4/25

Left In: 60.376+/-14.714 $\chi^2$/NDF:32.2/22

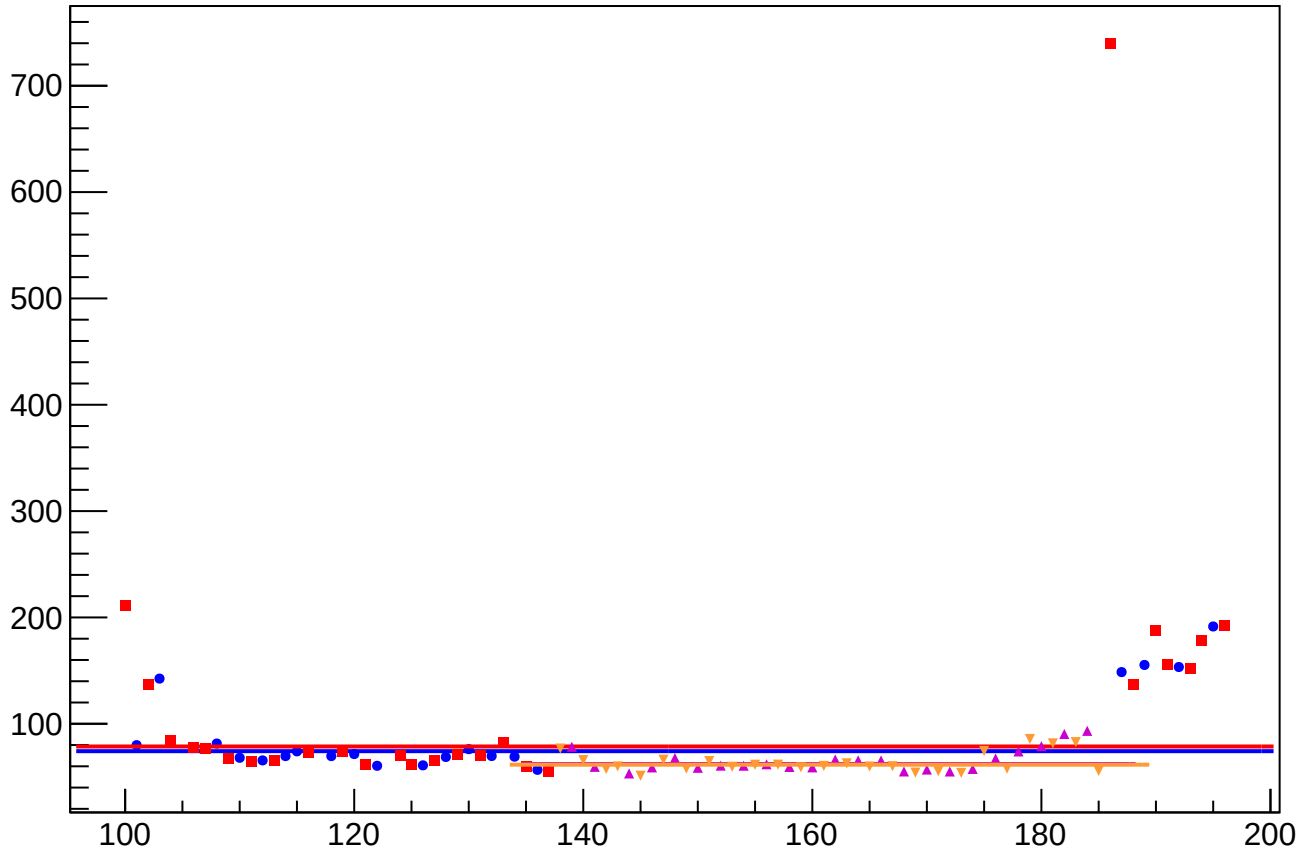
Left: 50.858+/-10.211 $\chi^2$/NDF: 65.0/47

Right: 24.536+/-17.844 $\chi^2$/NDF: 53.5/45

In: 45.028+/-12.732 $\chi^2$/NDF:55.7/42

Out: 43.744+/-12.343 $\chi^2$/NDF:64.5/50

All: 44.366+/-8.862 $\chi^2$/NDF: 120.2/93




Right In: 74.228+/-0.018 $\chi^2$/NDF: 2094888.3/19

Left Out: 61.544+/-0.010 $\chi^2$/NDF:637834.9/24

Right Out: 78.636+/-0.018 $\chi^2$/NDF: 3570885.2/25

Left In: 62.144+/-0.010 $\chi^2$/NDF:596754.9/22

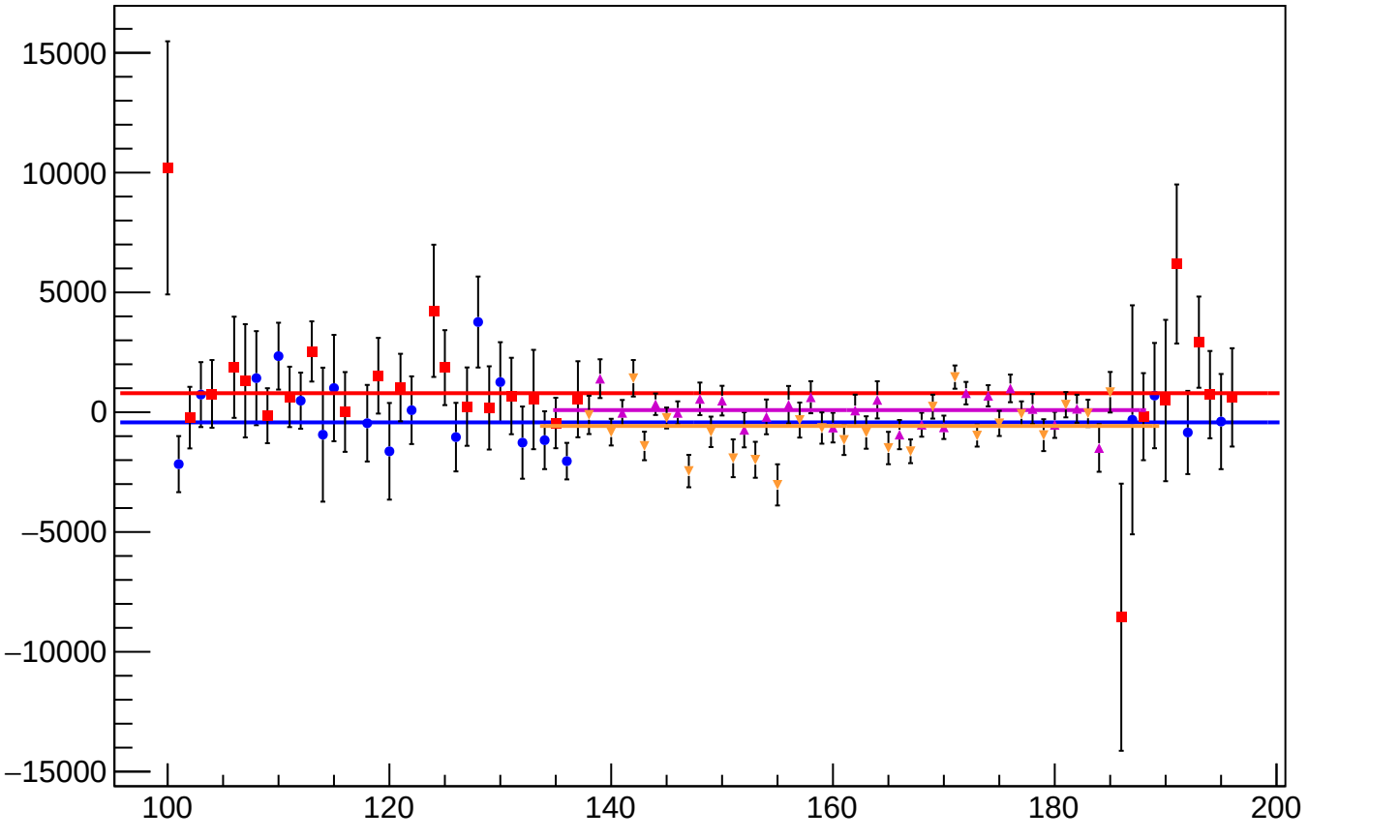
Left: 61.833+/-0.007 $\chi^2$/NDF: 1236316.3/47

Right: 76.461+/-0.013 $\chi^2$/NDF: 5696276.9/45

In: 65.180+/-0.009 $\chi^2$/NDF:3030495.4/42

Out: 65.687+/-0.009 $\chi^2$/NDF:4912953.6/50

All: 65.441+/-0.006 $\chi^2$/NDF: 7945084.5/93




Right In: -424.637+/-332.385 $\chi^2$/NDF: 20.9/19

Left Out: -574.811+/-119.736 $\chi^2$/NDF:68.8/24

Right Out: 793.474+/-327.356 $\chi^2$/NDF: 17.9/25

Left In: 88.333+/-122.492 $\chi^2$/NDF:24.6/22

Left: -250.783+/-85.624 $\chi^2$/NDF: 108.4/47

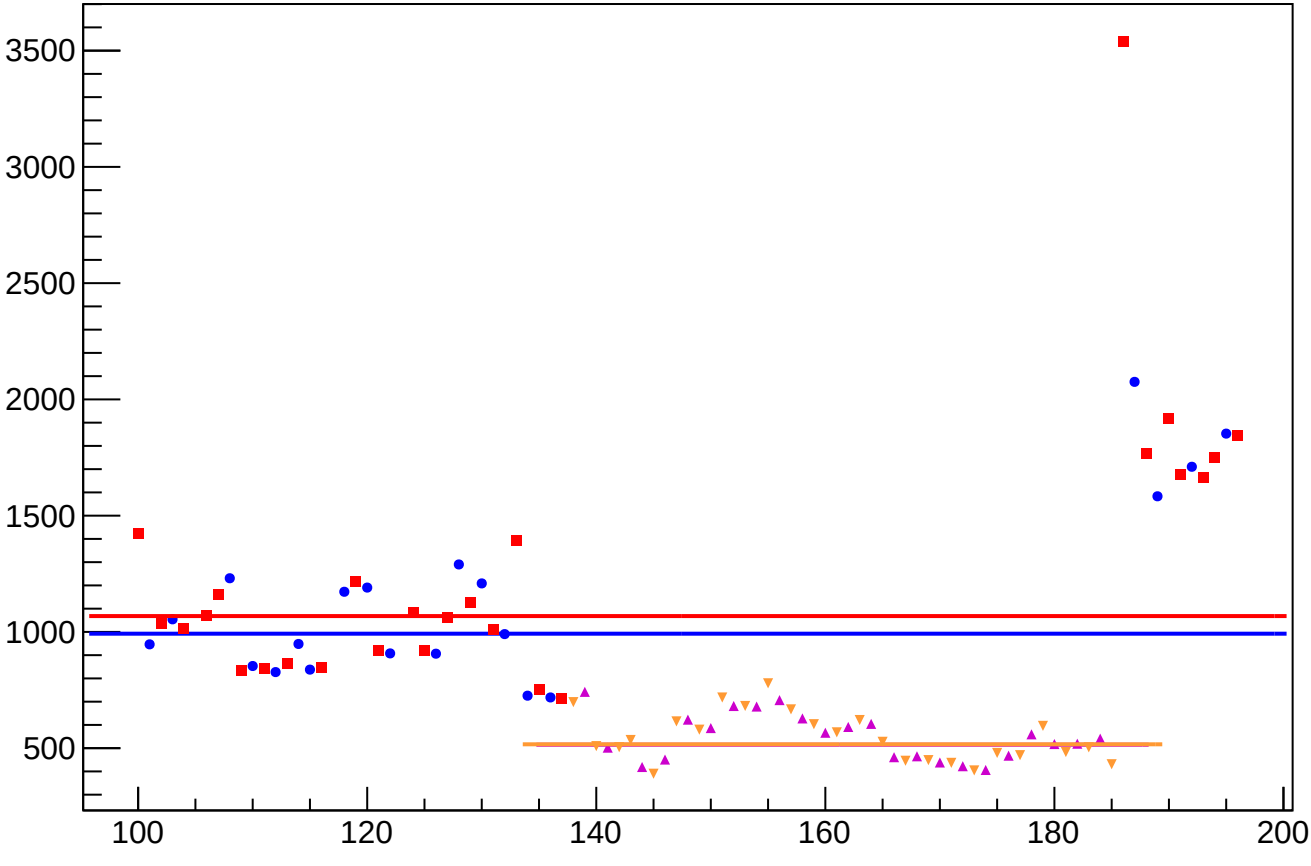
Right: 193.703+/-233.233 $\chi^2$/NDF: 45.6/45

In: 26.997+/-114.936 $\chi^2$/NDF:47.6/42

Out: -413.354+/-112.450 $\chi^2$/NDF:102.1/50

All: -197.992+/-80.379 $\chi^2$/NDF: 157.1/93

asym_sam_12345678_avg_cor_correction_rms vs Slug, Sign Corrected




Right In: 992.350+/-0.235 $\chi^2$/NDF: 1568833.2/19

Left Out: 516.635+/-0.085 $\chi^2$/NDF:1265163.0/24

Right Out: 1068.142+/-0.231 $\chi^2$/NDF: 2292595.7/25

Left In: 514.781+/-0.087 $\chi^2$/NDF:1120434.8/22

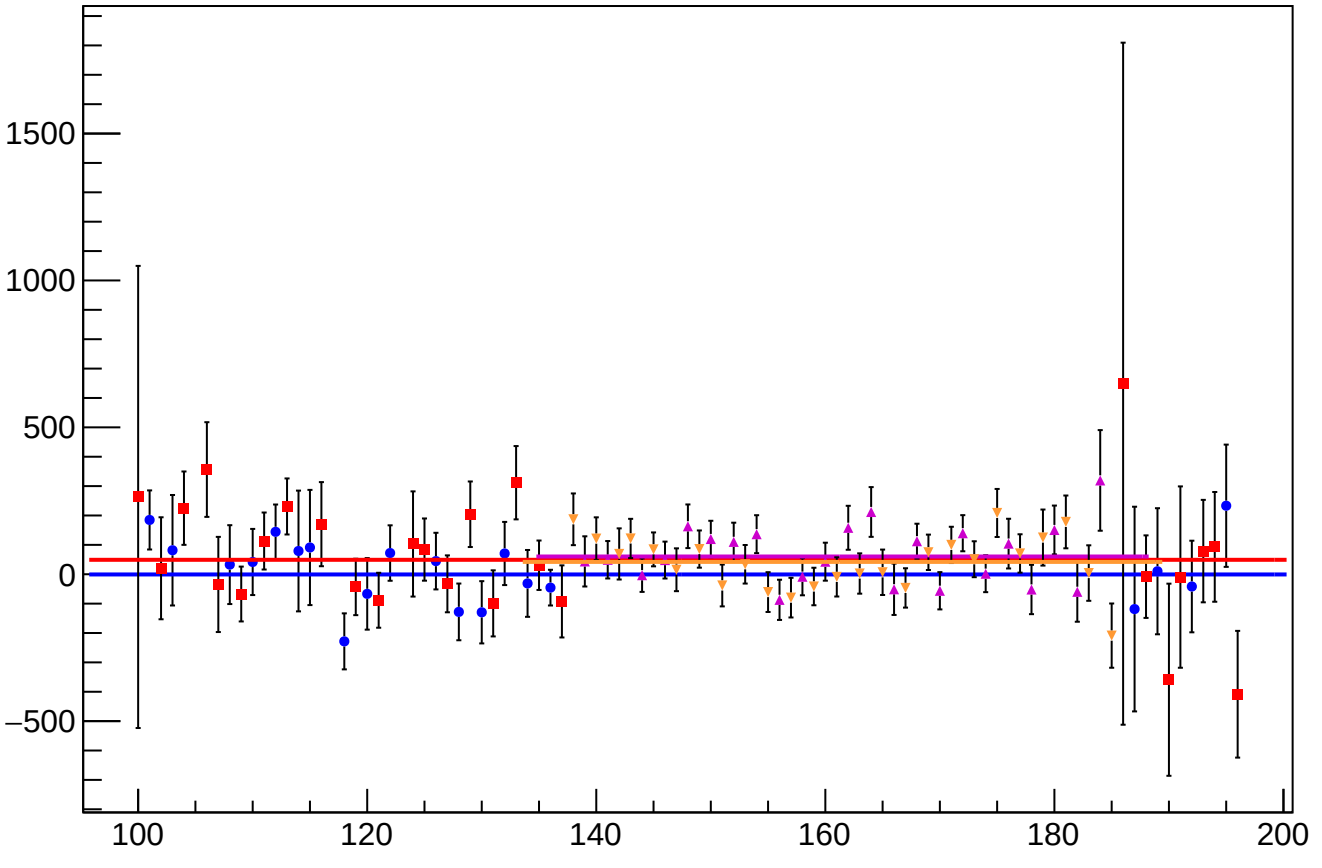
Left: 515.729+/-0.061 $\chi^2$/NDF: 2385832.1/47

Right: 1030.824+/-0.165 $\chi^2$/NDF: 3914217.3/45

In: 571.885+/-0.081 $\chi^2$/NDF:6324344.5/42

Out: 581.713+/-0.080 $\chi^2$/NDF:8564563.2/50

All: 576.906+/-0.057 $\chi^2$/NDF: 14896378.5/93




Right In: -0.725+/-25.404 $\chi^2$/NDF: 19.2/19

Left Out: 42.017+/-14.181 $\chi^2$/NDF:32.0/24

Right Out: 49.139+/-25.071 $\chi^2$/NDF: 32.4/25

Left In: 60.376+/-14.714 $\chi^2$/NDF:32.2/22

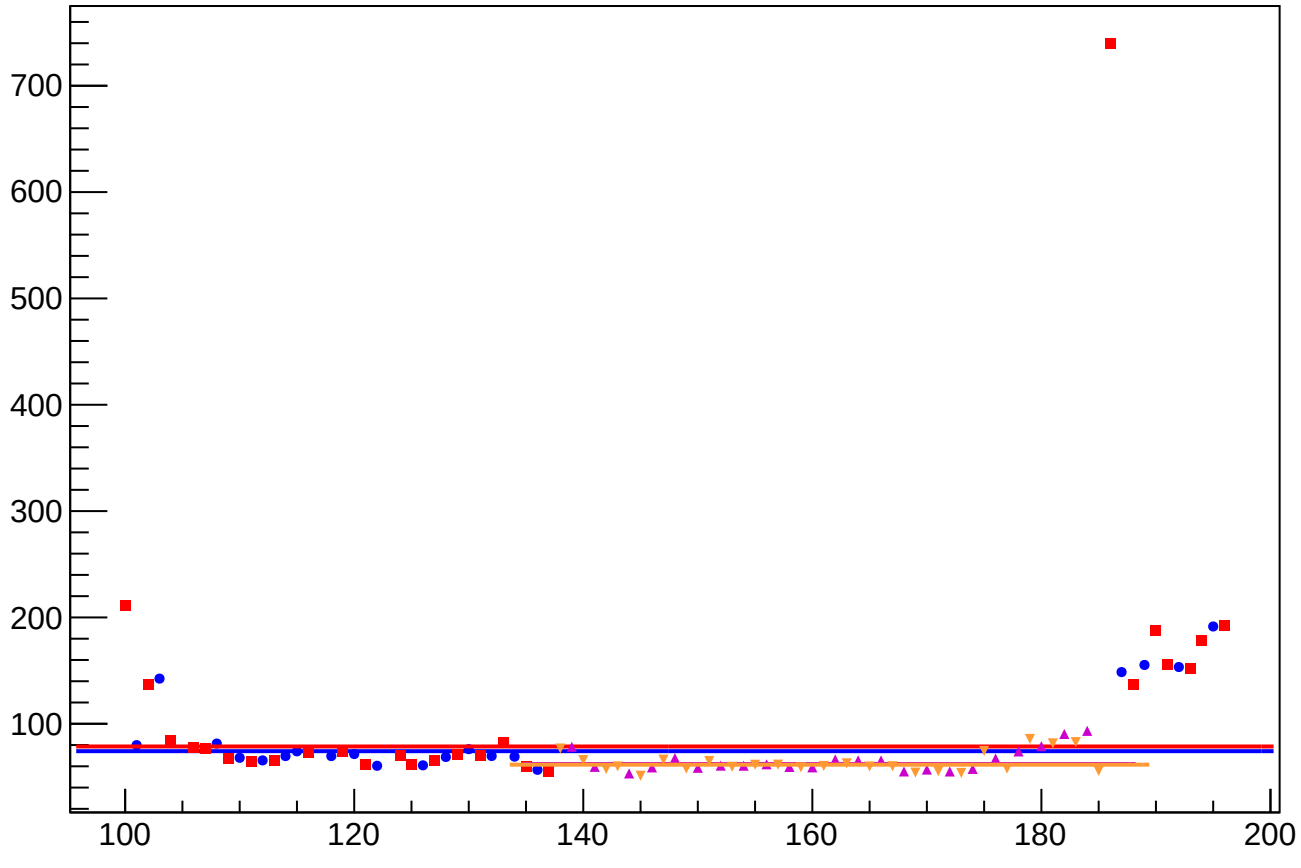
Left: 50.858+/-10.211 $\chi^2$/NDF: 65.0/47

Right: 24.536+/-17.844 $\chi^2$/NDF: 53.5/45

In: 45.028+/-12.732 $\chi^2$/NDF:55.7/42

Out: 43.744+/-12.343 $\chi^2$/NDF:64.5/50

All: 44.366+/-8.862 $\chi^2$/NDF: 120.2/93




Right In: 74.228+/-0.018 $\chi^2$/NDF: 2094888.3/19

Left Out: 61.544+/-0.010 $\chi^2$/NDF:637834.9/24

Right Out: 78.636+/-0.018 $\chi^2$/NDF: 3570885.2/25

Left In: 62.144+/-0.010 $\chi^2$/NDF:596754.9/22

Left: 61.833+/-0.007 $\chi^2$/NDF: 1236316.3/47

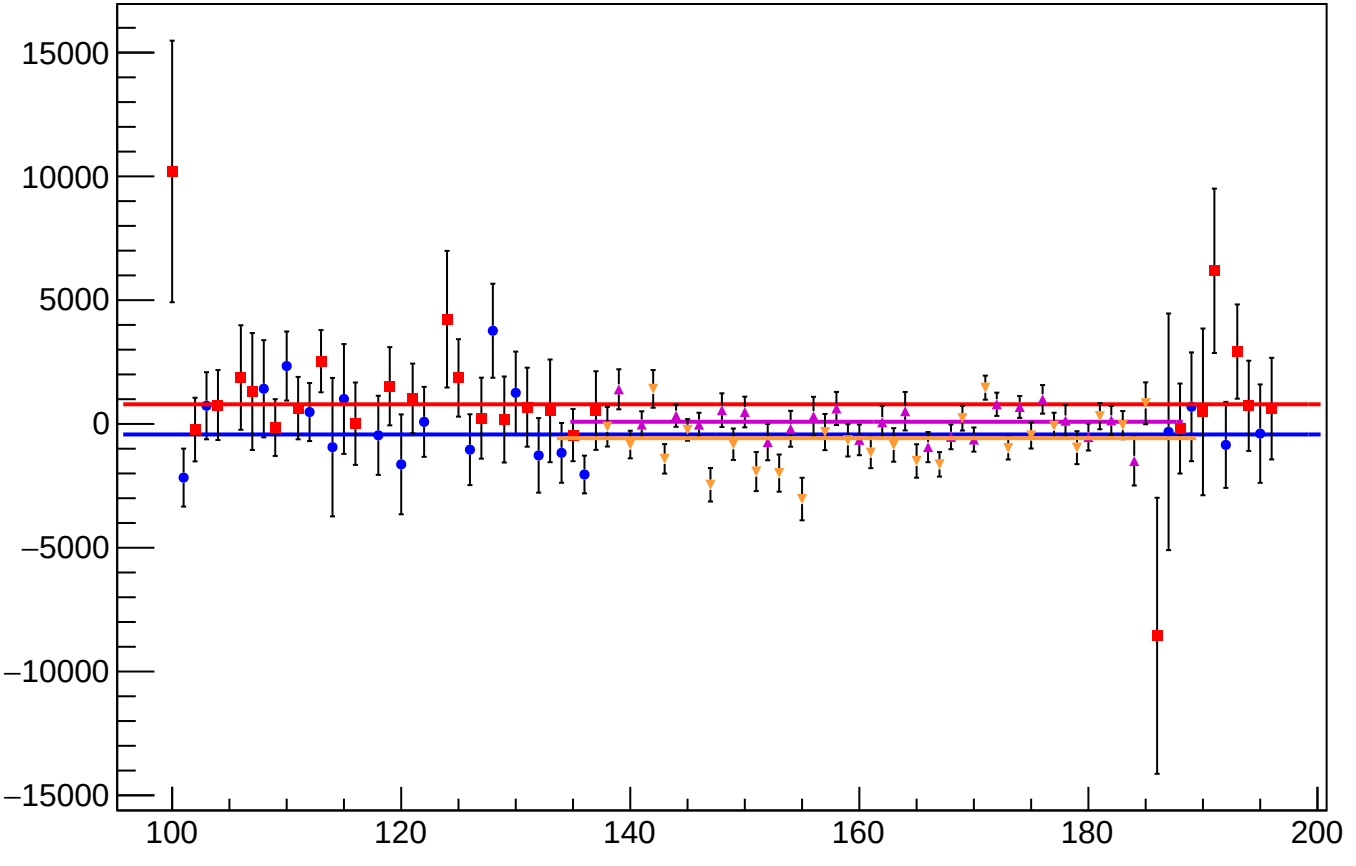
Right: 76.461+/-0.013 $\chi^2$/NDF: 5696276.9/45

In: 65.180+/-0.009 $\chi^2$/NDF:3030495.4/42

Out: 65.687+/-0.009 $\chi^2$/NDF:4912953.6/50

All: 65.441+/-0.006 $\chi^2$/NDF: 7945084.5/93

asym_sam_12345678_avg_eigen_cor_correction_mean vs Slug, Sign Corrected




Right In: -424.637+/-332.385 $\chi^2$/NDF: 20.9/19

Left Out: -574.811+/-119.736 $\chi^2$/NDF:68.8/24

Right Out: 793.474+/-327.356 $\chi^2$/NDF: 17.9/25

Left In: 88.333+/-122.492 $\chi^2$/NDF:24.6/22

Left: -250.783+/-85.624 $\chi^2$/NDF: 108.4/47

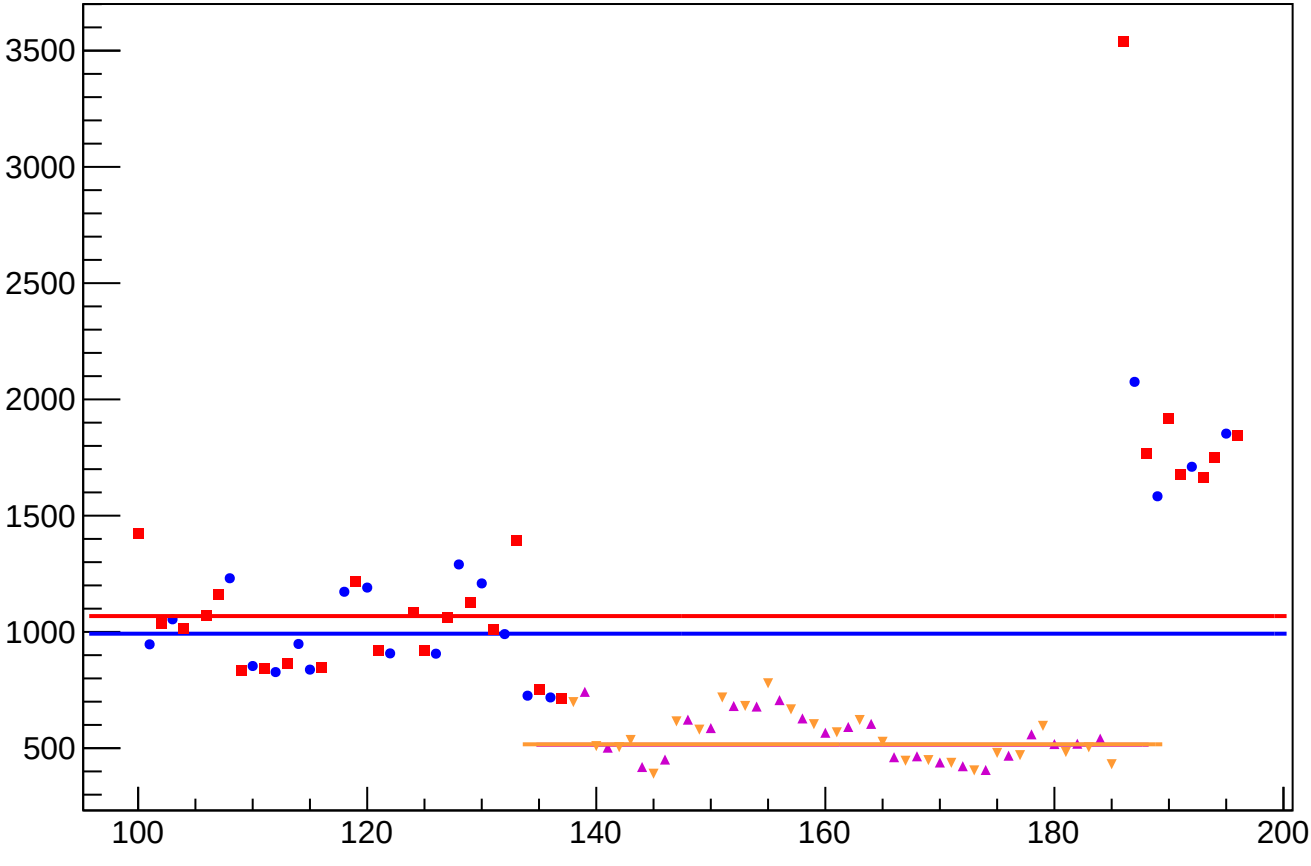
Right: 193.703+/-233.233 $\chi^2$/NDF: 45.6/45

In: 26.997+/-114.936 $\chi^2$/NDF:47.6/42

Out: -413.354+/-112.450 $\chi^2$/NDF:102.1/50

All: -197.992+/-80.379 $\chi^2$/NDF: 157.1/93

asym_sam_12345678_avg_eigen_cor_correction_rms vs Slug, Sign Corrected




Right In: 992.350+/-0.235 $\chi^2$/NDF: 1568833.2/19

Left Out: 516.635+/-0.085 $\chi^2$/NDF:1265163.0/24

Right Out: 1068.142+/-0.231 $\chi^2$/NDF: 2292595.7/25

Left In: 514.781+/-0.087 $\chi^2$/NDF:1120434.8/22

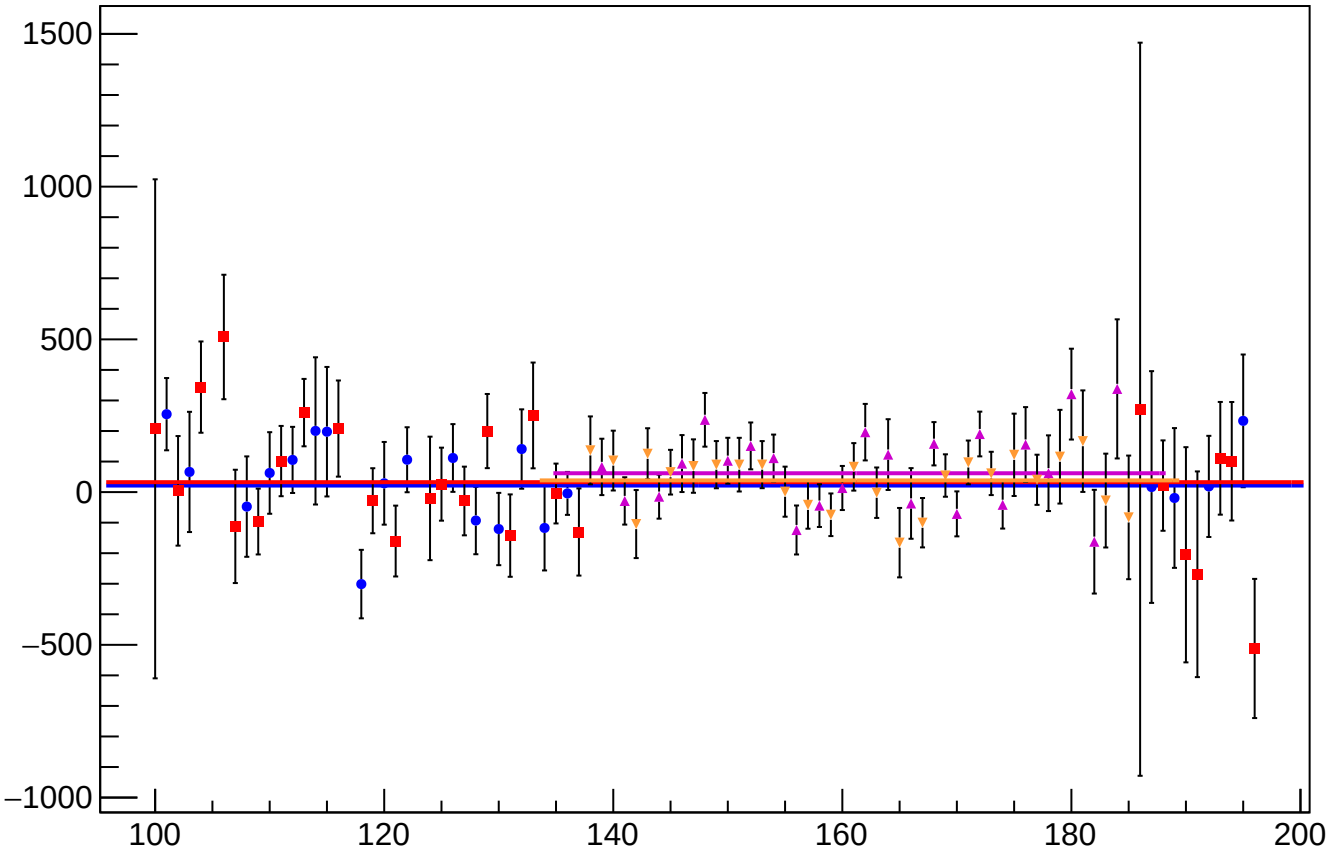
Left: 515.729+/-0.061 $\chi^2$/NDF: 2385832.1/47

Right: 1030.824+/-0.165 $\chi^2$/NDF: 3914217.3/45

In: 571.885+/-0.081 $\chi^2$/NDF:6324344.5/42

Out: 581.713+/-0.080 $\chi^2$/NDF:8564563.2/50

All: 576.906+/-0.057 $\chi^2$/NDF: 14896378.5/93




Right In: 21.465+/-29.240 $\chi^2$/NDF: 21.1/19

Left Out: 38.281+/-17.669 $\chi^2$/NDF:18.8/24

Right Out: 32.497+/-28.879 $\chi^2$/NDF: 35.2/25

Left In: 61.723+/-18.192 $\chi^2$/NDF:36.7/22

Left: 49.661+/-12.675 $\chi^2$/NDF: 56.4/47

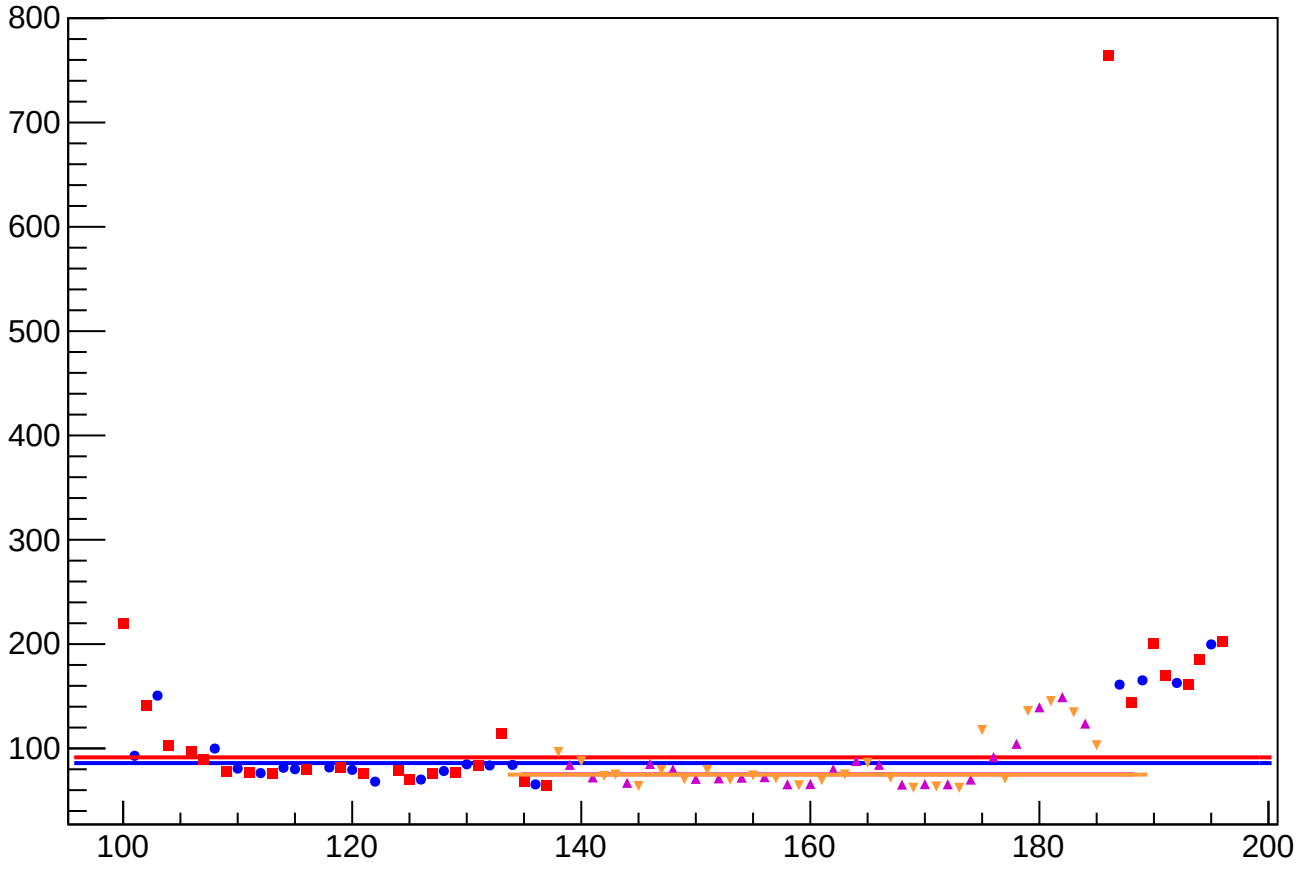
Right: 27.049+/-20.547 $\chi^2$/NDF: 56.4/45

In: 50.489+/-15.446 $\chi^2$/NDF:59.2/42

Out: 36.706+/-15.072 $\chi^2$/NDF:54.0/50

All: 43.429+/-10.787 $\chi^2$/NDF: 113.6/93

# dit_asym_sam_12345678_avg_rms vs Slug, Sign Corrected




Right In: 85.940+/-0.021 $\chi^2$/NDF: 1839712.7/19

Left Out: 74.903+/-0.012 $\chi^2$/NDF:1661552.1/24

Right Out: 91.438+/-0.020 $\chi^2$/NDF: 3154750.7/25

Left In: 75.156+/-0.013 $\chi^2$/NDF:1312543.0/22

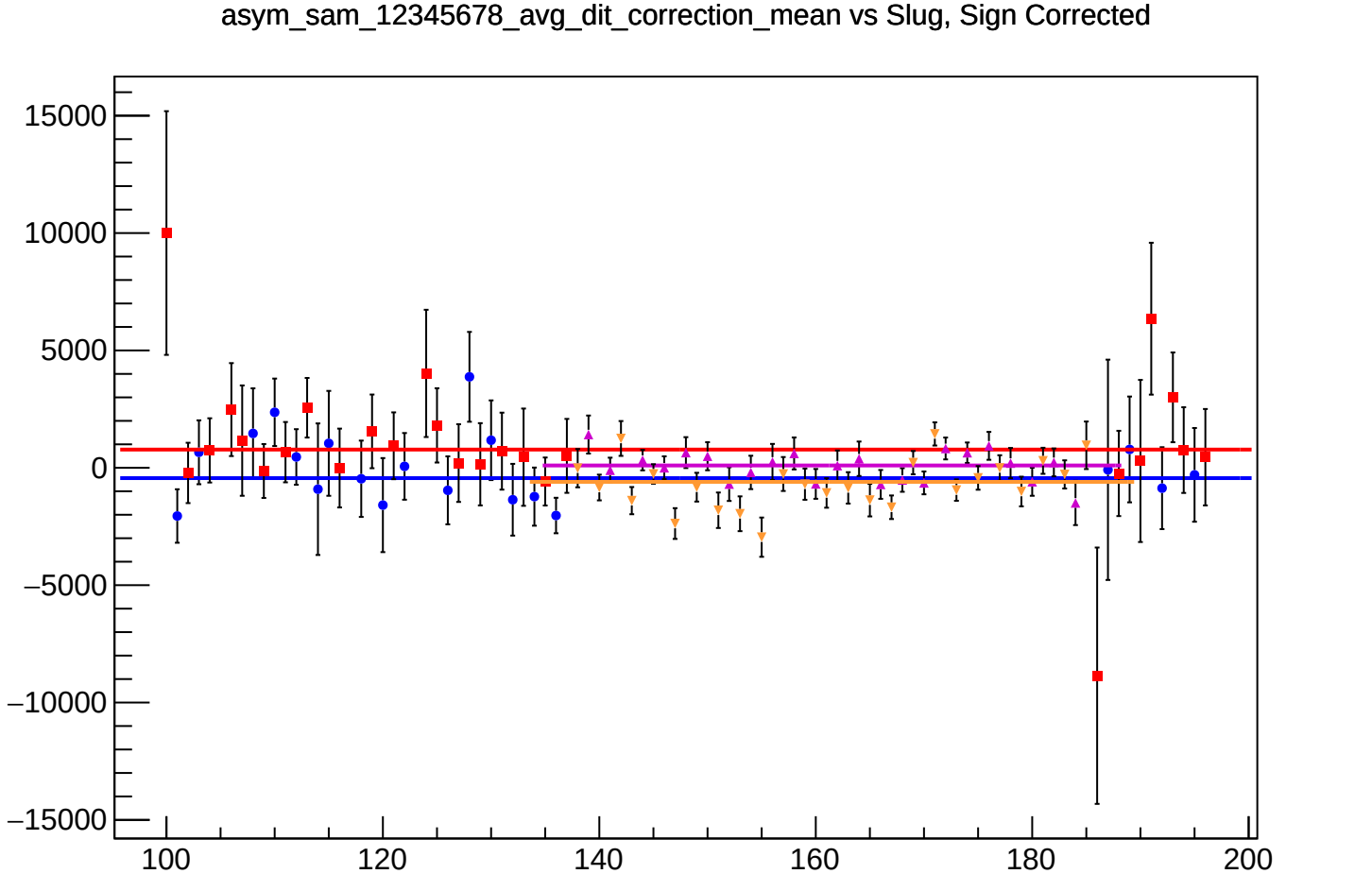
Left: 75.025+/-0.009 $\chi^2$/NDF: 2974293.9/47

Right: 88.723+/-0.015 $\chi^2$/NDF: 5030259.5/45

In: 78.165+/-0.011 $\chi^2$/NDF:3348395.6/42

Out: 79.407+/-0.011 $\chi^2$/NDF:5293379.5/50

All: 78.801+/-0.008 $\chi^2$/NDF: 8648395.8/93




Right In: -439.599+/-333.678 $\chi^2$/NDF: 20.6/19

Left Out: -598.826+/-119.324 $\chi^2$/NDF:65.0/24

Right Out: 776.664+/-326.661 $\chi^2$/NDF: 19.3/25

Left In: 99.102+/-122.310 $\chi^2$/NDF:23.7/22

Left: -258.487+/-85.411 $\chi^2$/NDF: 105.4/47

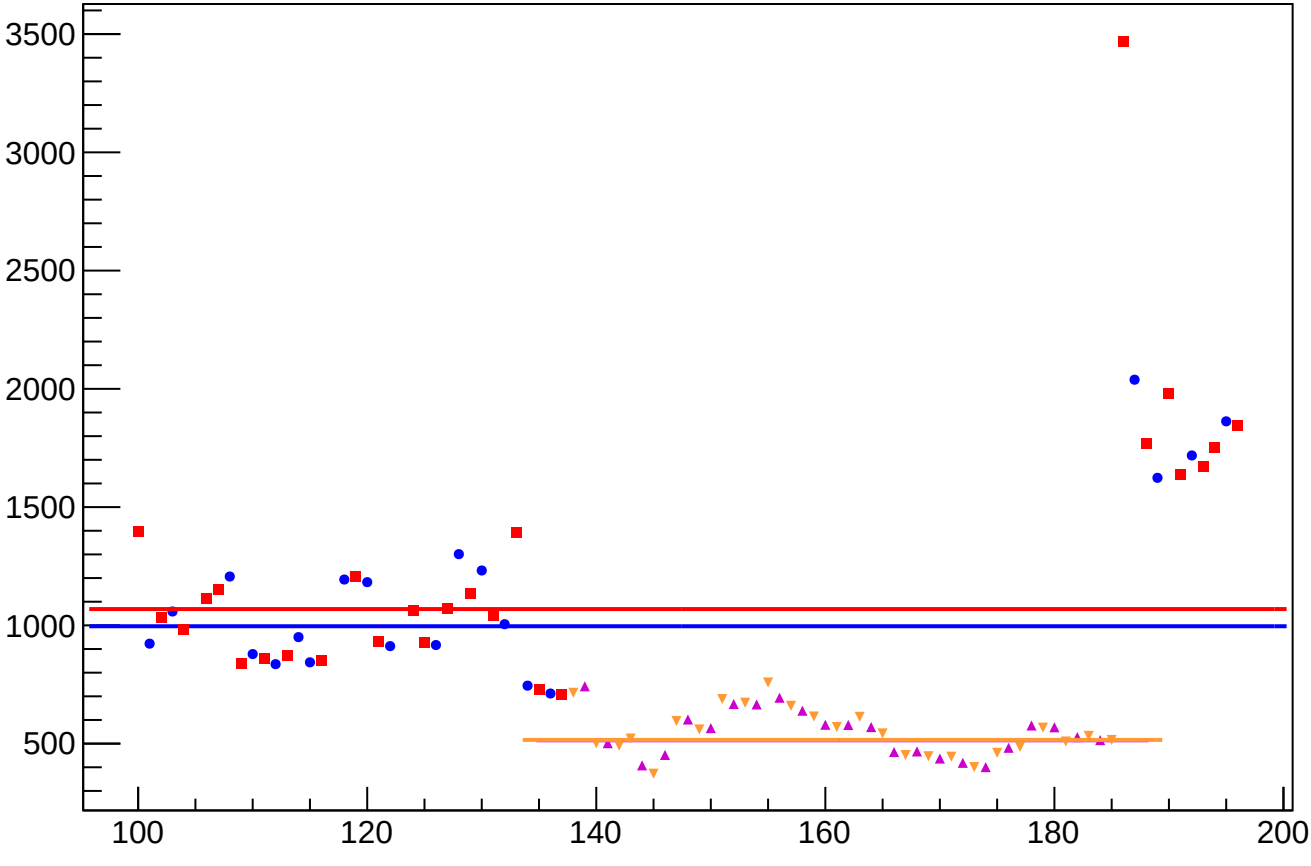
Right: 181.456+/-233.426 $\chi^2$/NDF: 46.8/45

In: 35.295+/-114.839 $\chi^2$/NDF:46.6/42

Out: -436.899+/-112.080 $\chi^2$/NDF:100.0/50

All: -206.541+/-80.210 $\chi^2$/NDF: 155.3/93

asym_sam_12345678_avg_dit_correction_rms vs Slug, Sign Corrected




Right In: 996.285+/-0.236 $\chi^2$/NDF: 1584208.9/19

Left Out: 515.762+/-0.084 $\chi^2$/NDF:1232478.6/24

Right Out: 1068.946+/-0.231 $\chi^2$/NDF: 2316776.7/25

Left In: 514.088+/-0.086 $\chi^2$/NDF:1116884.3/22

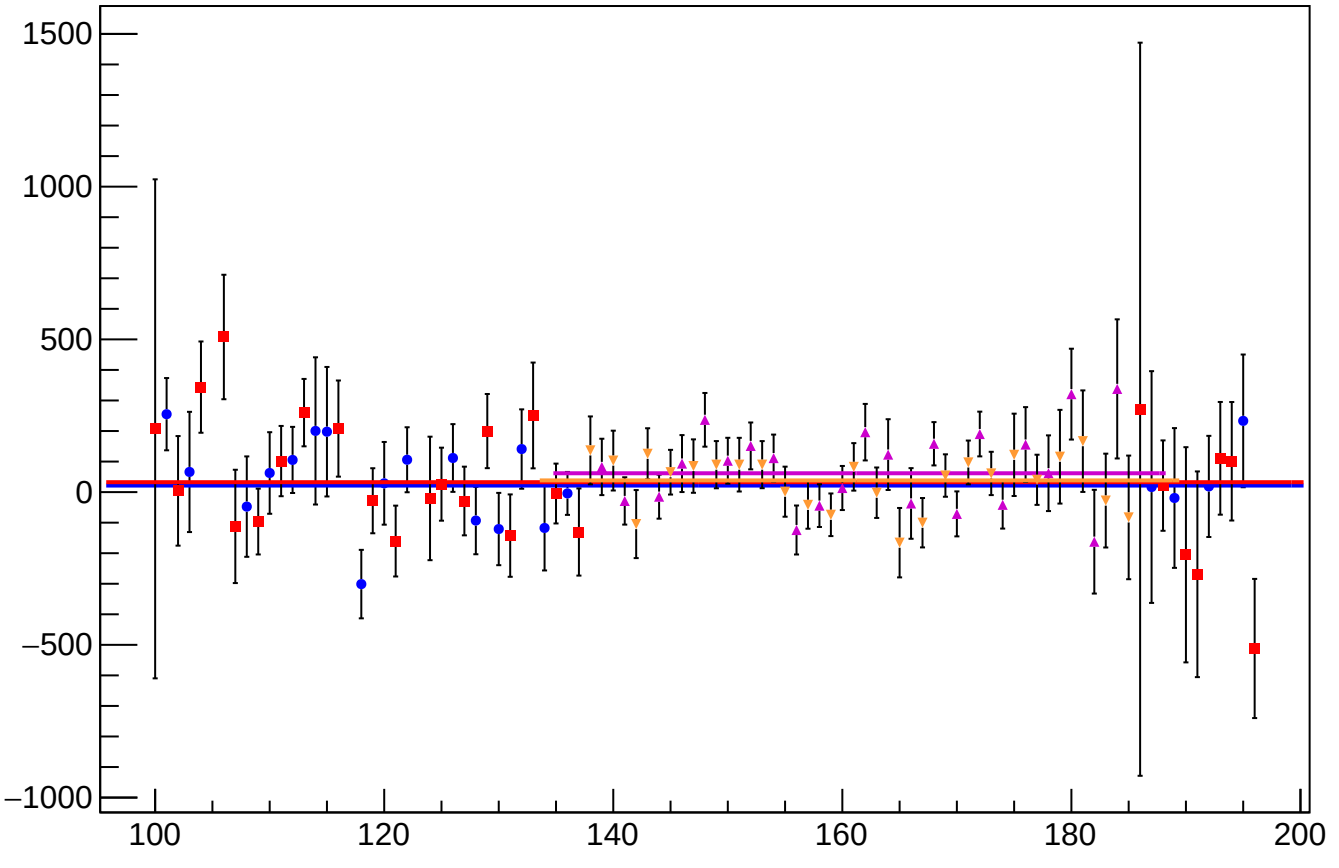
Left: 514.945+/-0.060 $\chi^2$/NDF: 2349554.8/47

Right: 1033.387+/-0.165 $\chi^2$/NDF: 3949411.4/45

In: 571.202+/-0.081 $\chi^2$/NDF:6383000.2/42

Out: 580.884+/-0.079 $\chi^2$/NDF:8609585.4/50

All: 576.161+/-0.057 $\chi^2$/NDF: 14999867.0/93




Right In: 21.464+/-29.240 $\chi^2$/NDF: 21.1/19

Left Out: 38.282+/-17.670 $\chi^2$/NDF:18.8/24

Right Out: 32.496+/-28.879 $\chi^2$/NDF: 35.2/25

Left In: 61.723+/-18.192 $\chi^2$/NDF:36.7/22

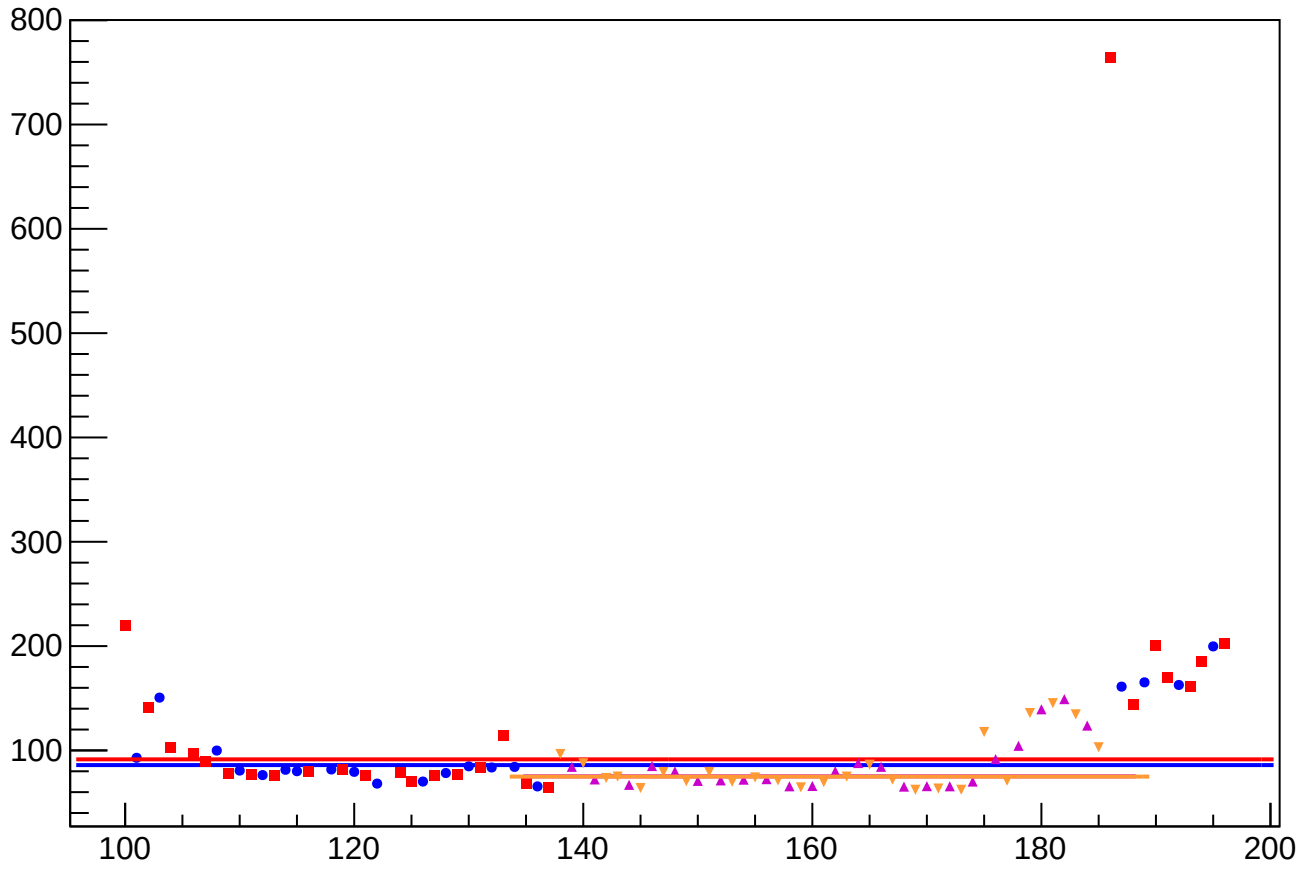
Left: 49.661+/-12.675 $\chi^2$/NDF: 56.4/47

Right: 27.049+/-20.547 $\chi^2$/NDF: 56.4/45

In: 50.488+/-15.446 $\chi^2$/NDF:59.2/42

Out: 36.706+/-15.072 $\chi^2$/NDF:54.0/50

All: 43.428+/-10.787 $\chi^2$/NDF: 113.6/93




Right In: 85.940+/-0.021 $\chi^2$/NDF: 1839715.7/19

Left Out: 74.903+/-0.012 $\chi^2$/NDF:1661550.3/24

Right Out: 91.438+/-0.020 $\chi^2$/NDF: 3154768.5/25

Left In: 75.156+/-0.013 $\chi^2$/NDF:1312527.7/22

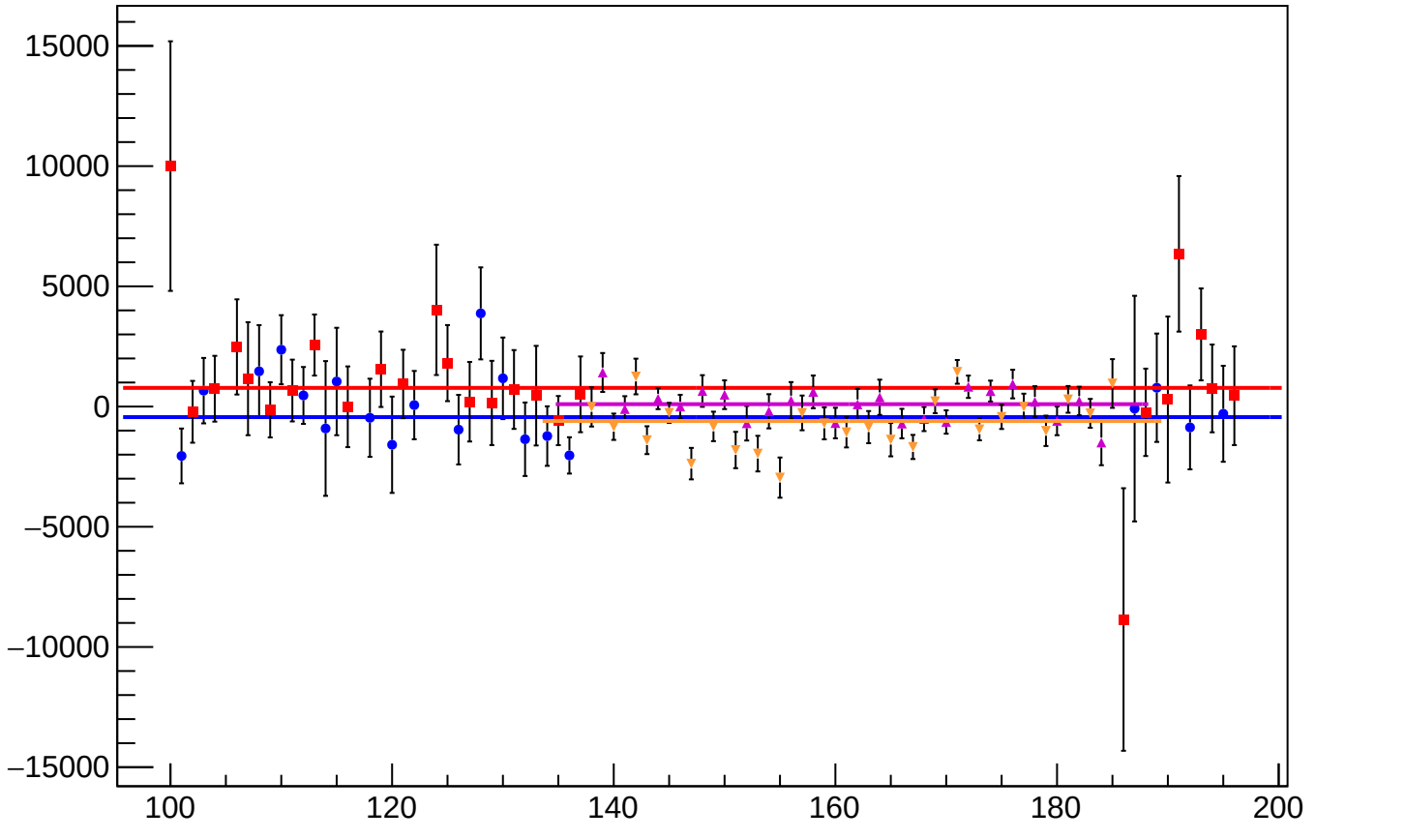
Left: 75.026+/-0.009 $\chi^2$/NDF: 2974276.9/47

Right: 88.723+/-0.015 $\chi^2$/NDF: 5030281.3/45

In: 78.165+/-0.011 $\chi^2$/NDF:3348365.4/42

Out: 79.407+/-0.011 $\chi^2$/NDF:5293371.6/50

All: 78.801+/-0.008 $\chi^2$/NDF: 8648357.6/93




Right In: -439.596+/-333.677 $\chi^2$/NDF: 20.6/19

Left Out: -598.825+/-119.324 $\chi^2$/NDF:65.0/24

Right Out: 776.663+/-326.661 $\chi^2$/NDF: 19.3/25

Left In: 99.101+/-122.310 $\chi^2$/NDF:23.7/22

Left: -258.487+/-85.411 $\chi^2$/NDF: 105.4/47

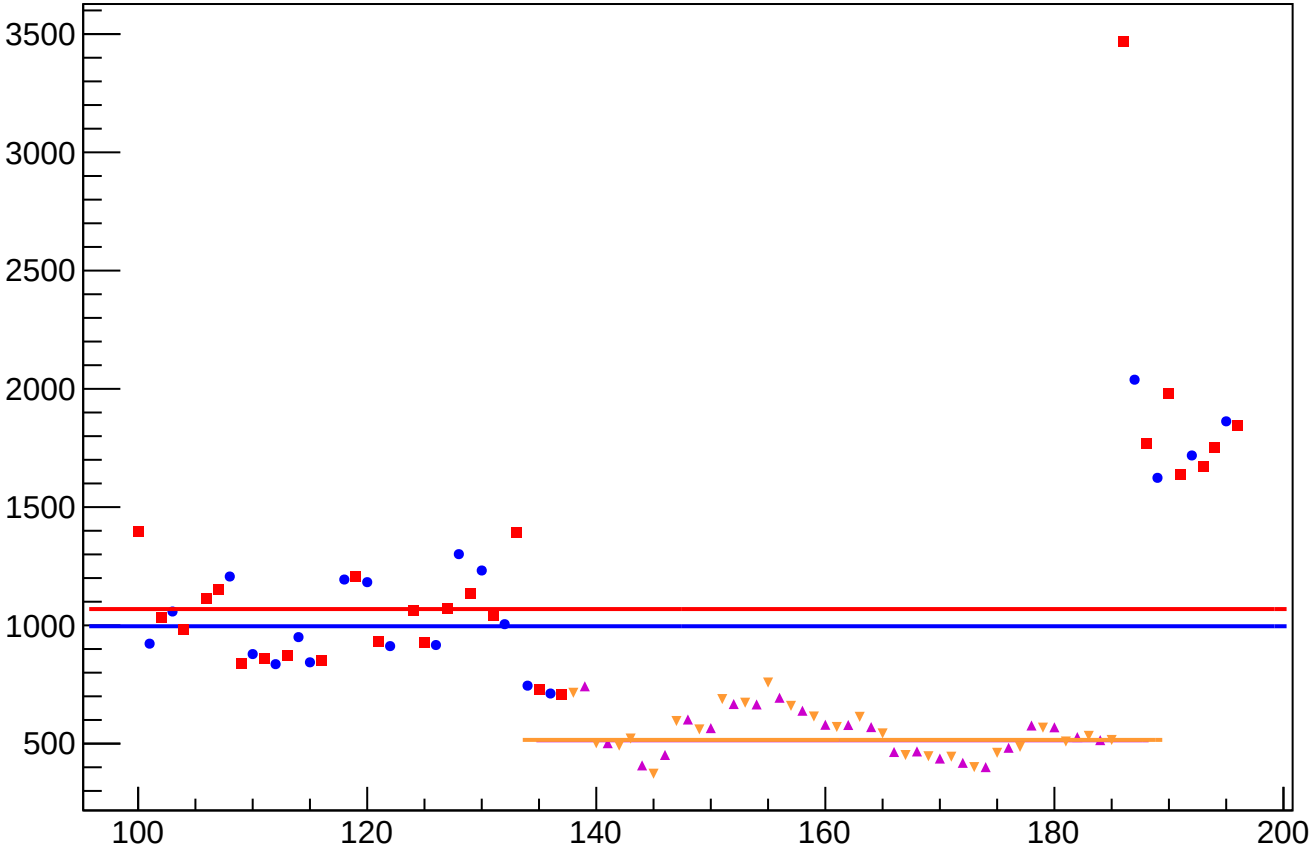
Right: 181.457+/-233.425 $\chi^2$/NDF: 46.8/45

In: 35.295+/-114.838 $\chi^2$/NDF:46.6/42

Out: -436.898+/-112.080 $\chi^2$/NDF:100.0/50

All: -206.540+/-80.210 $\chi^2$/NDF: 155.3/93

asym_sam_12345678_avg_eigen_dit_correction_rms vs Slug, Sign Corrected




Right In: 996.283+/-0.236 $\chi^2$/NDF: 1584212.0/19

Left Out: 515.761+/-0.084 $\chi^2$/NDF:1232481.1/24

Right Out: 1068.943+/-0.231 $\chi^2$/NDF: 2316782.0/25

Left In: 514.087+/-0.086 $\chi^2$/NDF:1116882.7/22

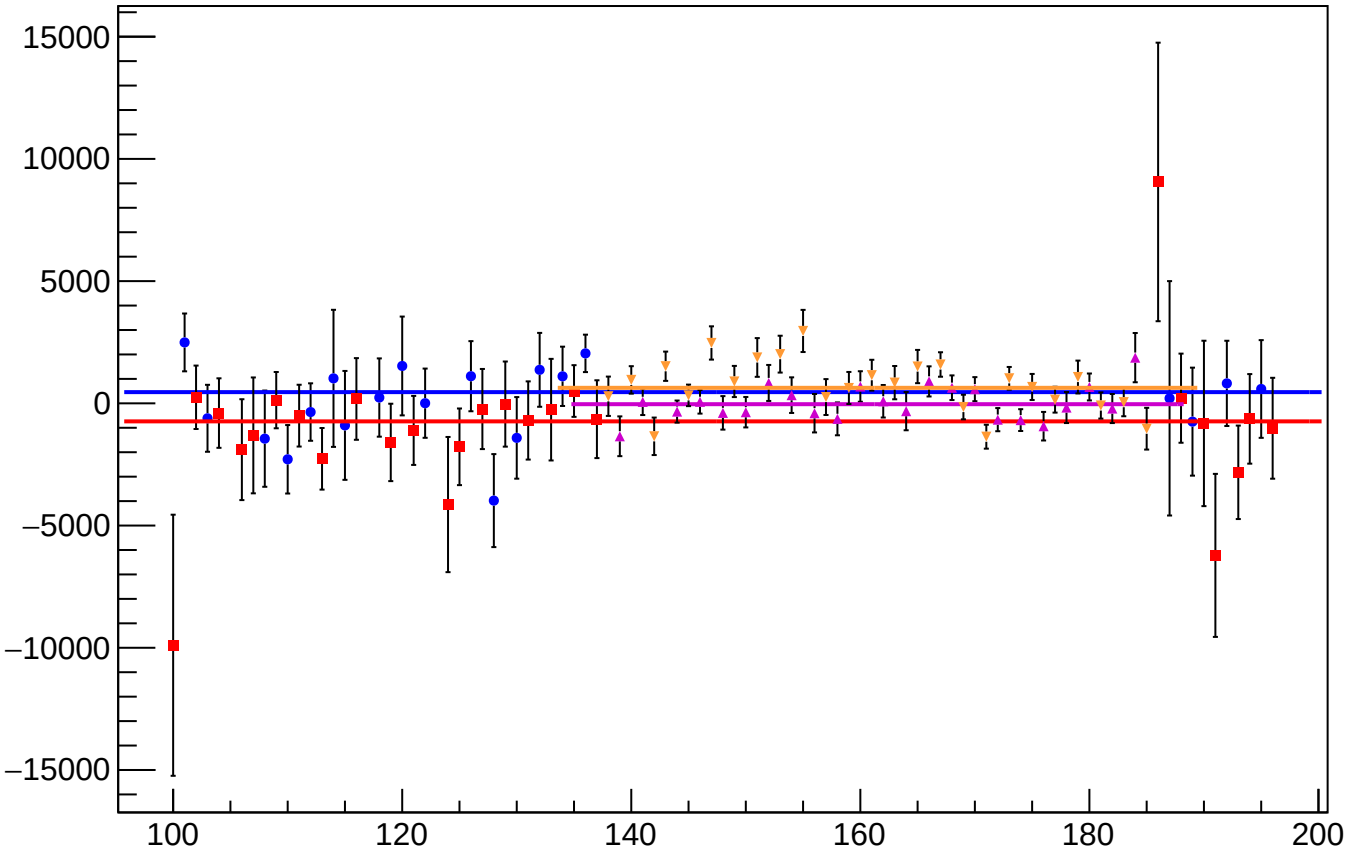
Left: 514.944+/-0.060 $\chi^2$/NDF: 2349555.7/47

Right: 1033.385+/-0.165 $\chi^2$/NDF: 3949419.5/45

In: 571.201+/-0.081 $\chi^2$/NDF:6382996.9/42

Out: 580.883+/-0.079 $\chi^2$/NDF:8609587.2/50

All: 576.160+/-0.057 $\chi^2$/NDF: 14999865.4/93




Right In: 458.674+/-333.826 $\chi^2$/NDF: 21.8/19

Left Out: 634.783+/-120.717 $\chi^2$/NDF:64.5/24

Right Out: -737.788+/-328.409 $\chi^2$/NDF: 17.5/25

Left In: -34.808+/-123.517 $\chi^2$/NDF:25.1/22

Left: 307.664+/-86.333 $\chi^2$/NDF: 104.6/47

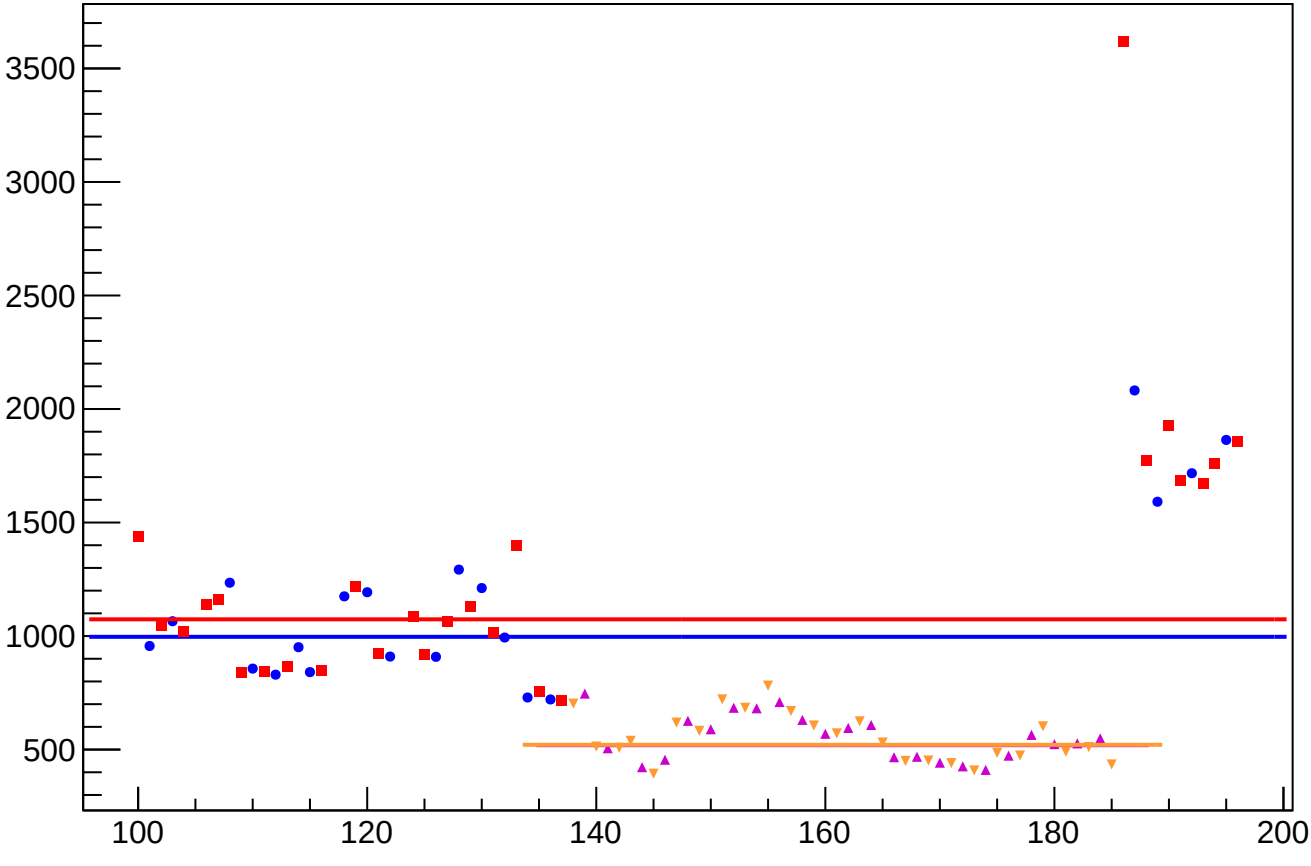
Right: -149.344+/-234.112 $\chi^2$/NDF: 45.8/45

In: 24.616+/-115.842 $\chi^2$/NDF:48.9/42

Out: 471.403+/-113.305 $\chi^2$/NDF:97.4/50

All: 252.956+/-81.001 $\chi^2$/NDF: 153.8/93

# asym_sam_12345678_avg_rms vs Slug, Sign Corrected




Right In: 996.637+/-0.236 $\chi^2$/NDF: 1569730.6/19

Left Out: 521.025+/-0.085 $\chi^2$/NDF:1243003.9/24

Right Out: 1073.730+/-0.232 $\chi^2$/NDF: 2306171.2/25

Left In: 519.239+/-0.087 $\chi^2$/NDF:1100553.3/22

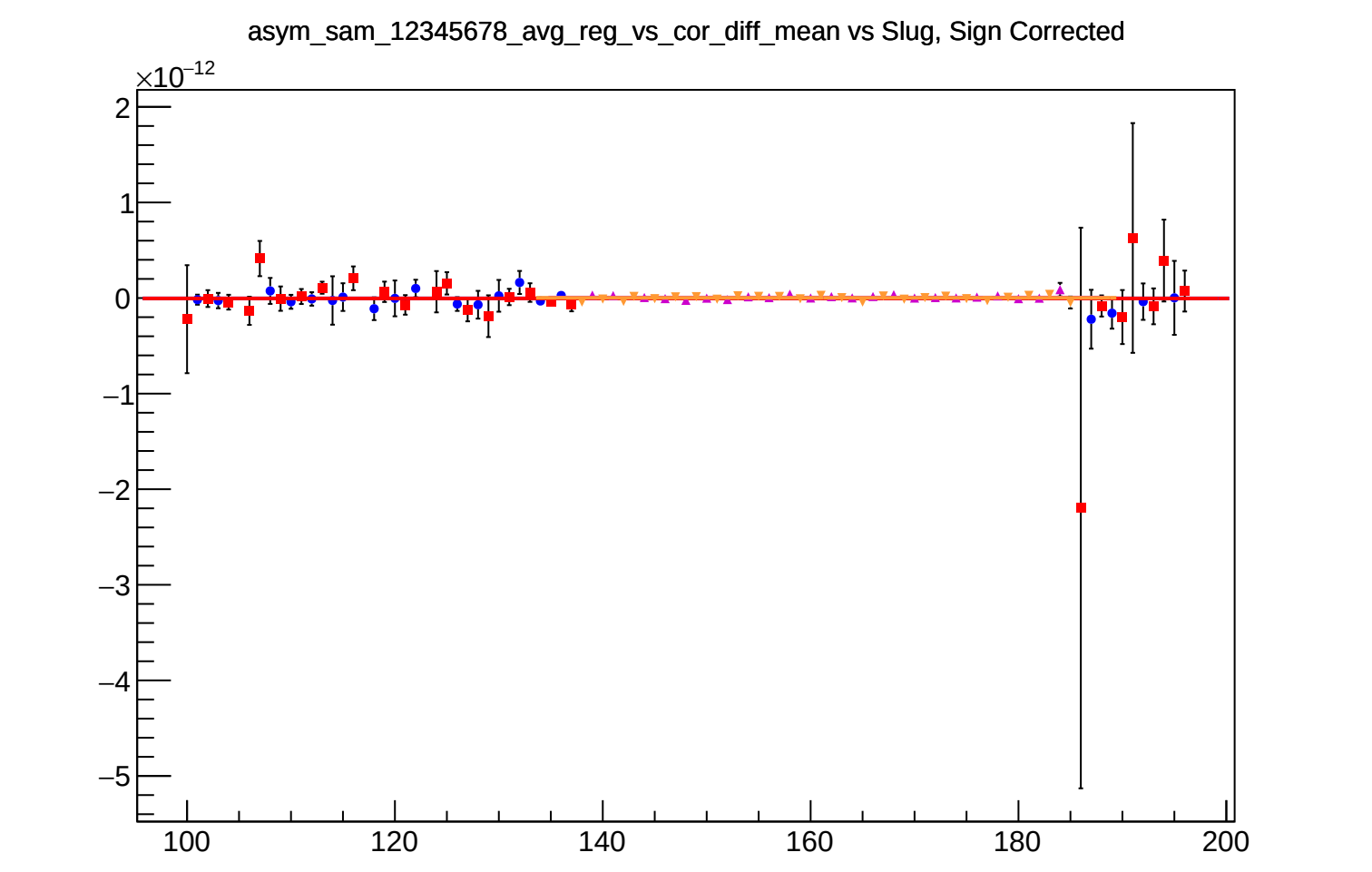
Left: 520.153+/-0.061 $\chi^2$/NDF: 2343771.0/47

Right: 1035.814+/-0.166 $\chi^2$/NDF: 3930105.6/45

In: 576.727+/-0.082 $\chi^2$/NDF:6267993.6/42

Out: 586.815+/-0.080 $\chi^2$/NDF:8539695.6/50

All: 581.882+/-0.057 $\chi^2$/NDF: 14815441.1/93




Right In: -0.000+/-0.000 $\chi^2$/NDF: 8.5/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:22.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 22.4/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:10.8/22

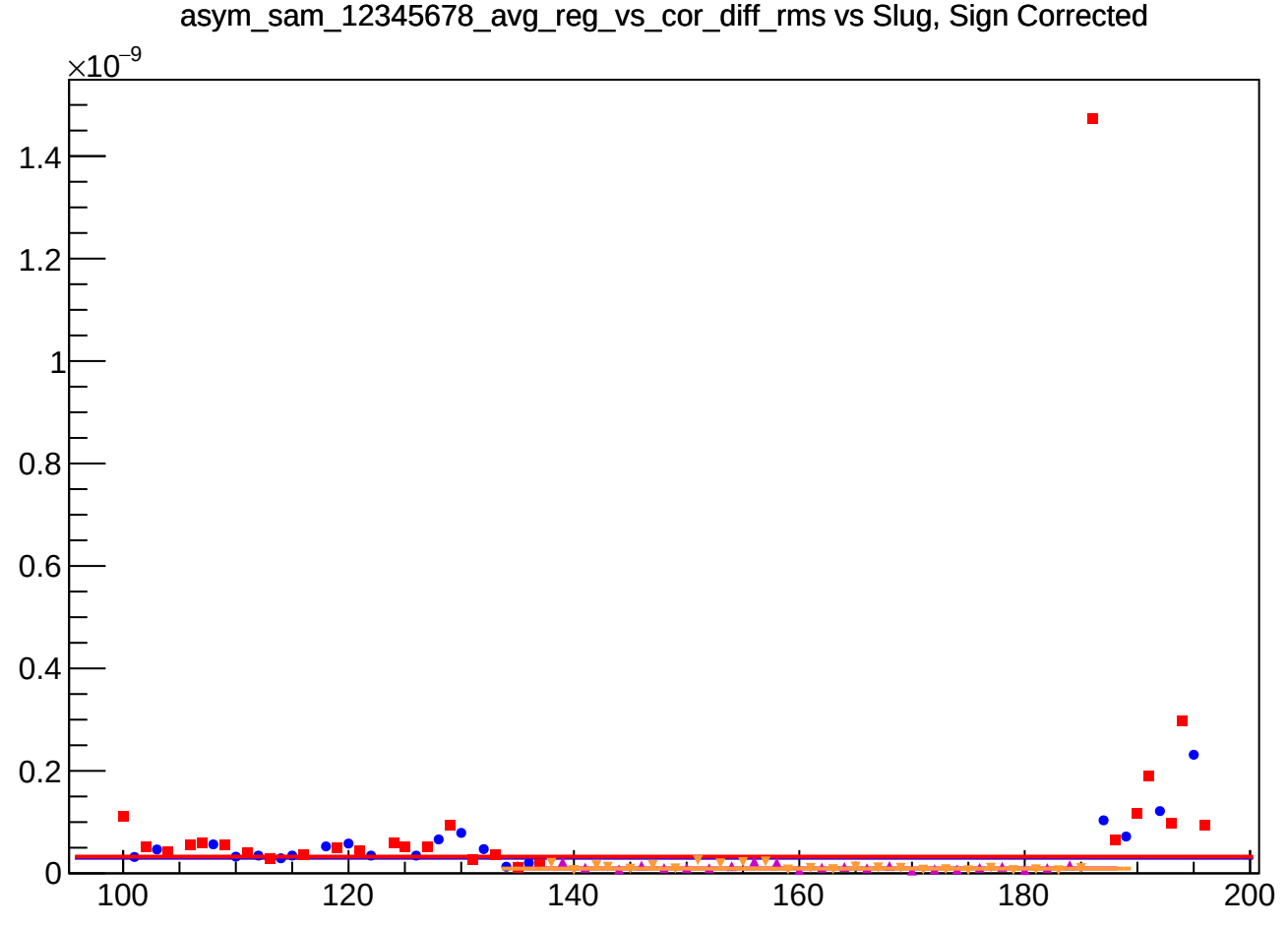
Left: 0.000+/-0.000 $\chi^2$/NDF: 33.4/47

Right: -0.000+/-0.000 $\chi^2$/NDF: 30.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:19.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:45.0/50

All: 0.000+/-0.000 $\chi^2$/NDF: 64.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 2416973.6/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:2137290.7/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 3762648.2/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:1614718.4/22

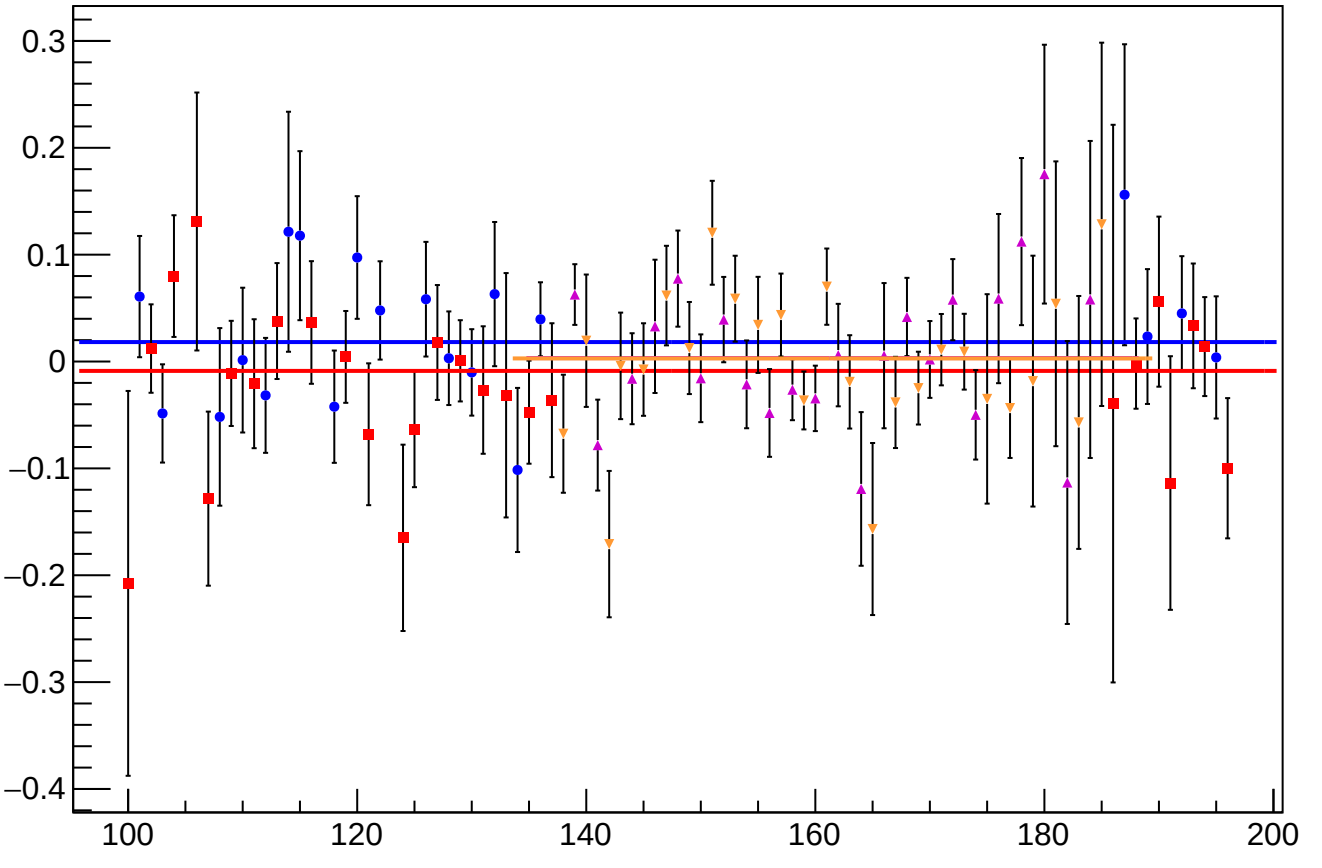
Left: 0.000+/-0.000 $\chi^2$/NDF: 3761199.7/47

Right: 0.000+/-0.000 $\chi^2$/NDF: 6193551.9/45

In: 0.000+/-0.000 $\chi^2$/NDF:6727908.5/42

Out: 0.000+/-0.000 $\chi^2$/NDF:8882658.8/50

All: 0.000+/-0.000 $\chi^2$/NDF: 15627449.3/93




Right In: 0.018+/-0.012 $\chi^2$/NDF: 16.1/19

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.9/24

Right Out: -0.009+/-0.012 $\chi^2$/NDF: 19.3/25

Left In: 0.003+/-0.009 $\chi^2$/NDF:29.8/22

Left: 0.003+/-0.007 $\chi^2$/NDF: 62.7/47

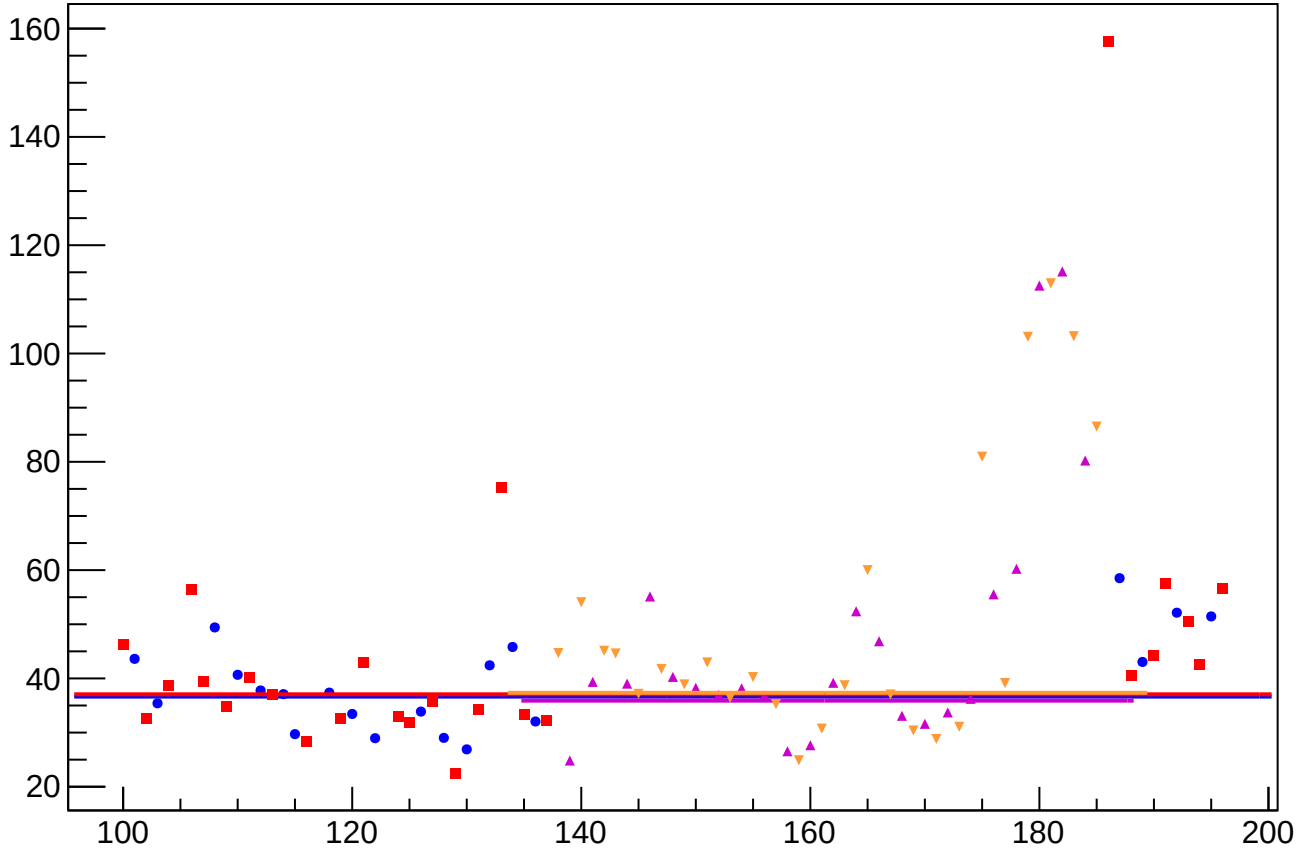
Right: 0.004+/-0.008 $\chi^2$/NDF: 37.9/45

In: 0.009+/-0.007 $\chi^2$/NDF:46.8/42

Out: -0.002+/-0.007 $\chi^2$/NDF:52.8/50

All: 0.003+/-0.005 $\chi^2$/NDF: 100.6/93

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.649+/-0.009 $\chi^2$/NDF: 795082.6/19

Left Out: 37.344+/-0.007 $\chi^2$/NDF:3696647.0/24

Right Out: 37.069+/-0.008 $\chi^2$/NDF: 1575191.8/25

Left In: 35.896+/-0.006 $\chi^2$/NDF:3138291.6/22

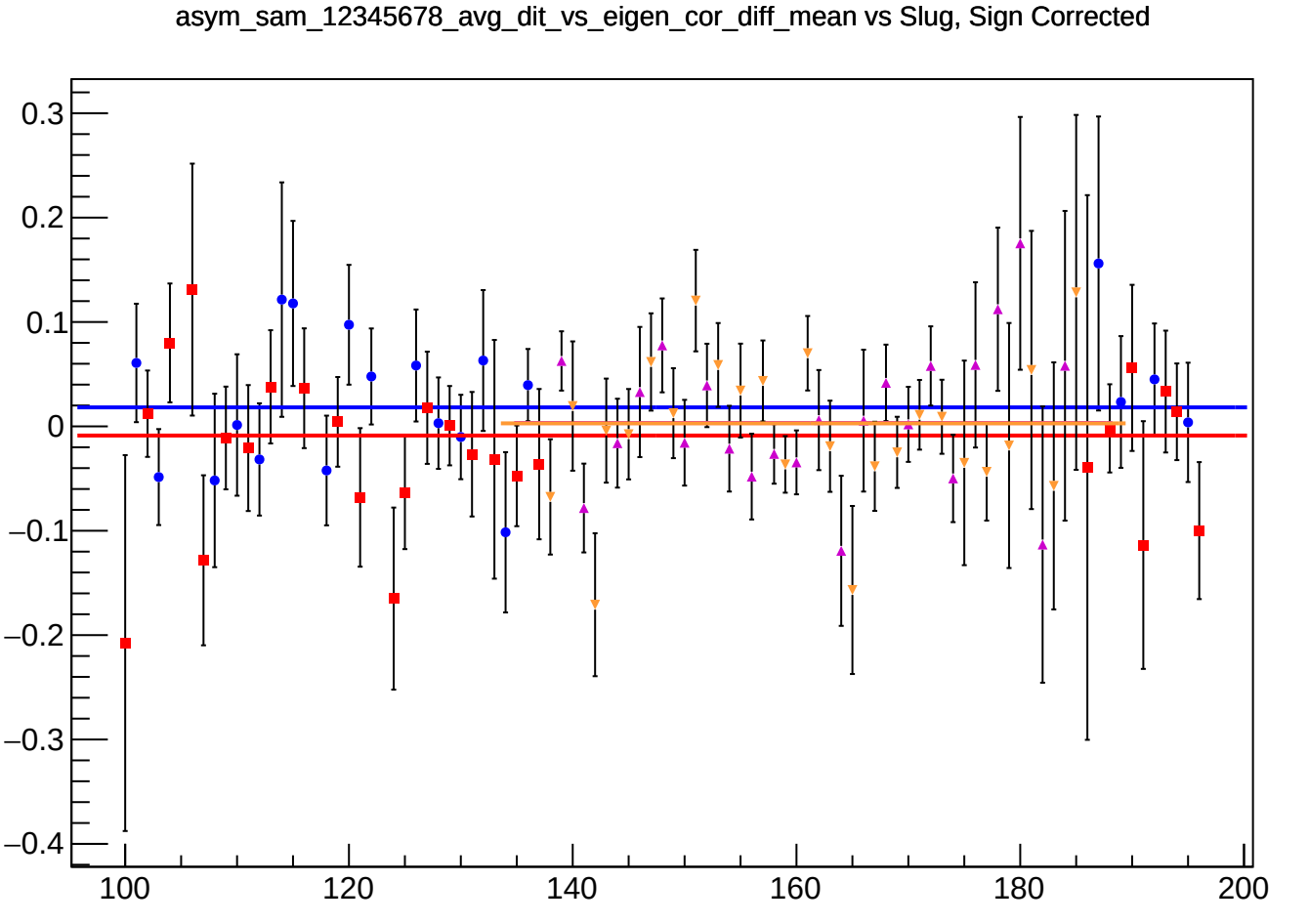
Left: 36.612+/-0.005 $\chi^2$/NDF: 6859658.6/47

Right: 36.874+/-0.006 $\chi^2$/NDF: 2371511.4/45

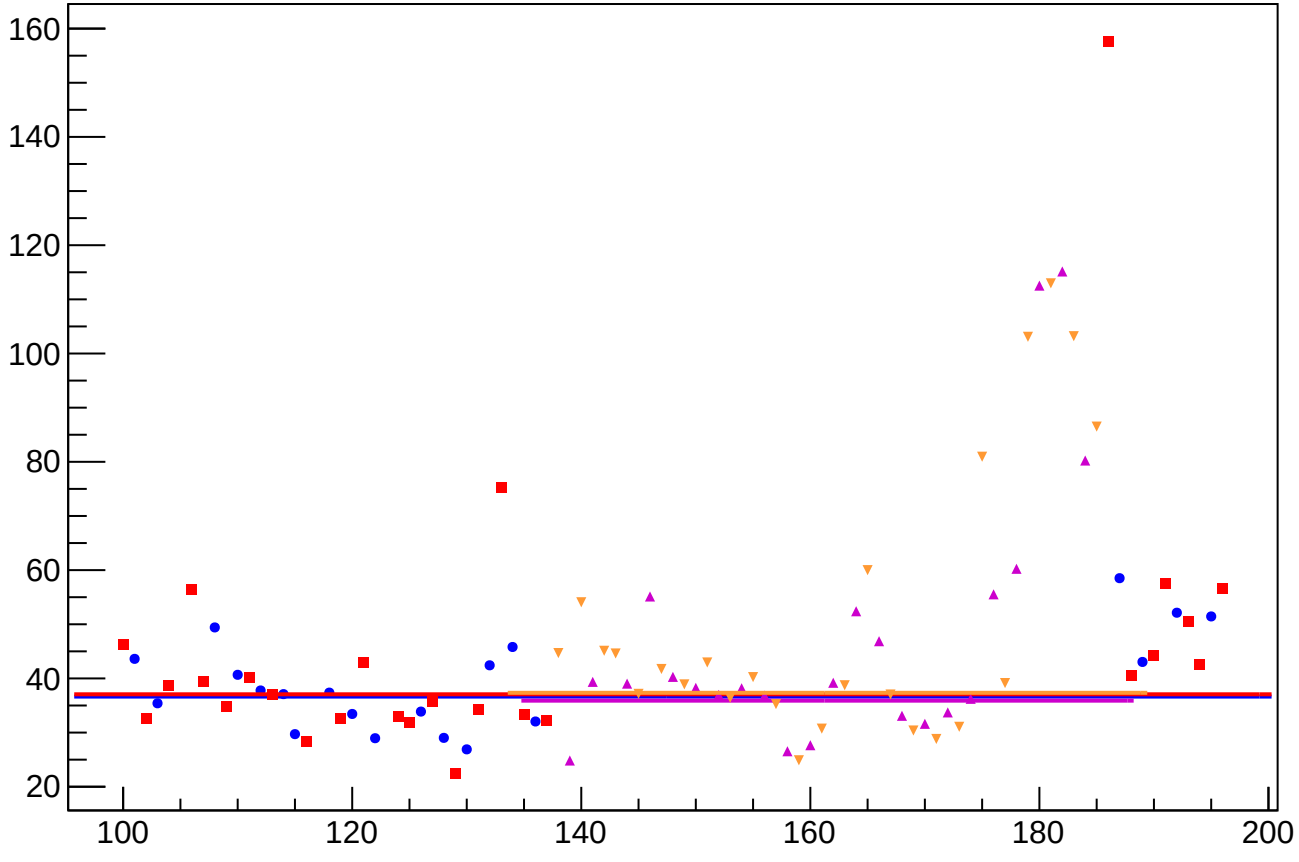
In: 36.162+/-0.005 $\chi^2$/NDF:3938155.7/42

Out: 37.236+/-0.005 $\chi^2$/NDF:5272528.6/50

All: 36.710+/-0.004 $\chi^2$/NDF: 9232378.7/93


asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
100
120
140
160
180
200
Right In: 0.018+/-0.012 χ²/NDF: 16.1/19
Left Out: 0.003+/-0.009 χ²/NDF:32.9/24
Right Out: -0.009+/-0.012 χ²/NDF: 19.3/25
Left In: 0.003+/-0.009 χ²/NDF:29.8/22
Left: 0.003+/-0.007 χ²/NDF: 62.7/47
Right: 0.004+/-0.008 χ²/NDF: 37.9/45
In: 0.009+/-0.007 χ²/NDF:46.8/42
Out: -0.002+/-0.007 χ²/NDF:52.8/50
All: 0.003+/-0.005 χ²/NDF: 100.6/93

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.649+/-0.009 $\chi^2$/NDF: 795082.6/19

Left Out: 37.344+/-0.007 $\chi^2$/NDF:3696647.0/24

Right Out: 37.069+/-0.008 $\chi^2$/NDF: 1575191.8/25

Left In: 35.896+/-0.006 $\chi^2$/NDF:3138291.6/22

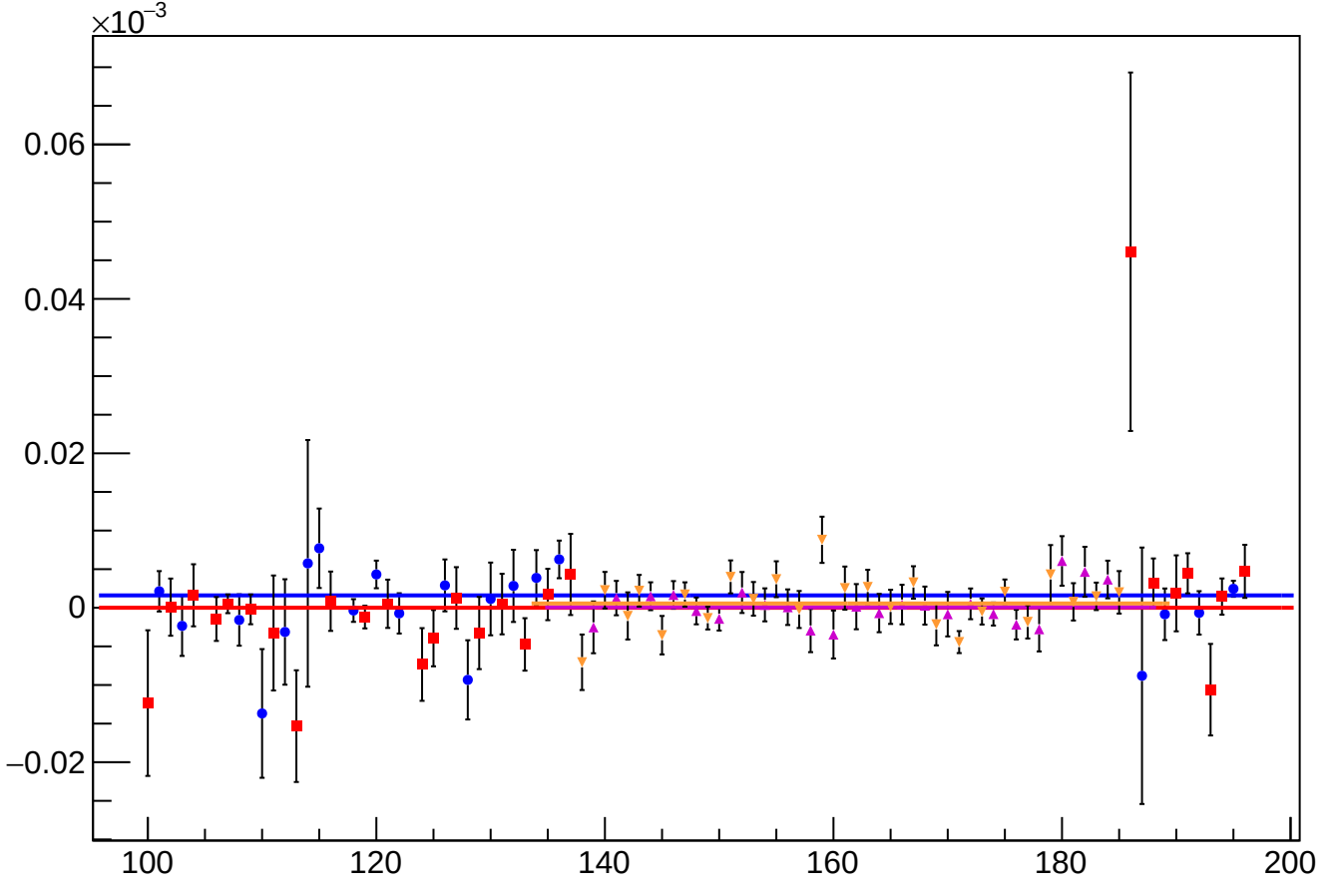
Left: 36.612+/-0.005 $\chi^2$/NDF: 6859658.6/47

Right: 36.874+/-0.006 $\chi^2$/NDF: 2371511.4/45

In: 36.162+/-0.005 $\chi^2$/NDF:3938155.7/42

Out: 37.236+/-0.005 $\chi^2$/NDF:5272528.6/50

All: 36.710+/-0.004 $\chi^2$/NDF: 9232378.7/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 23.3/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:43.5/24

Right Out: 0.000+/-0.000 $\chi^2$/NDF: 28.3/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:16.9/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 61.1/47

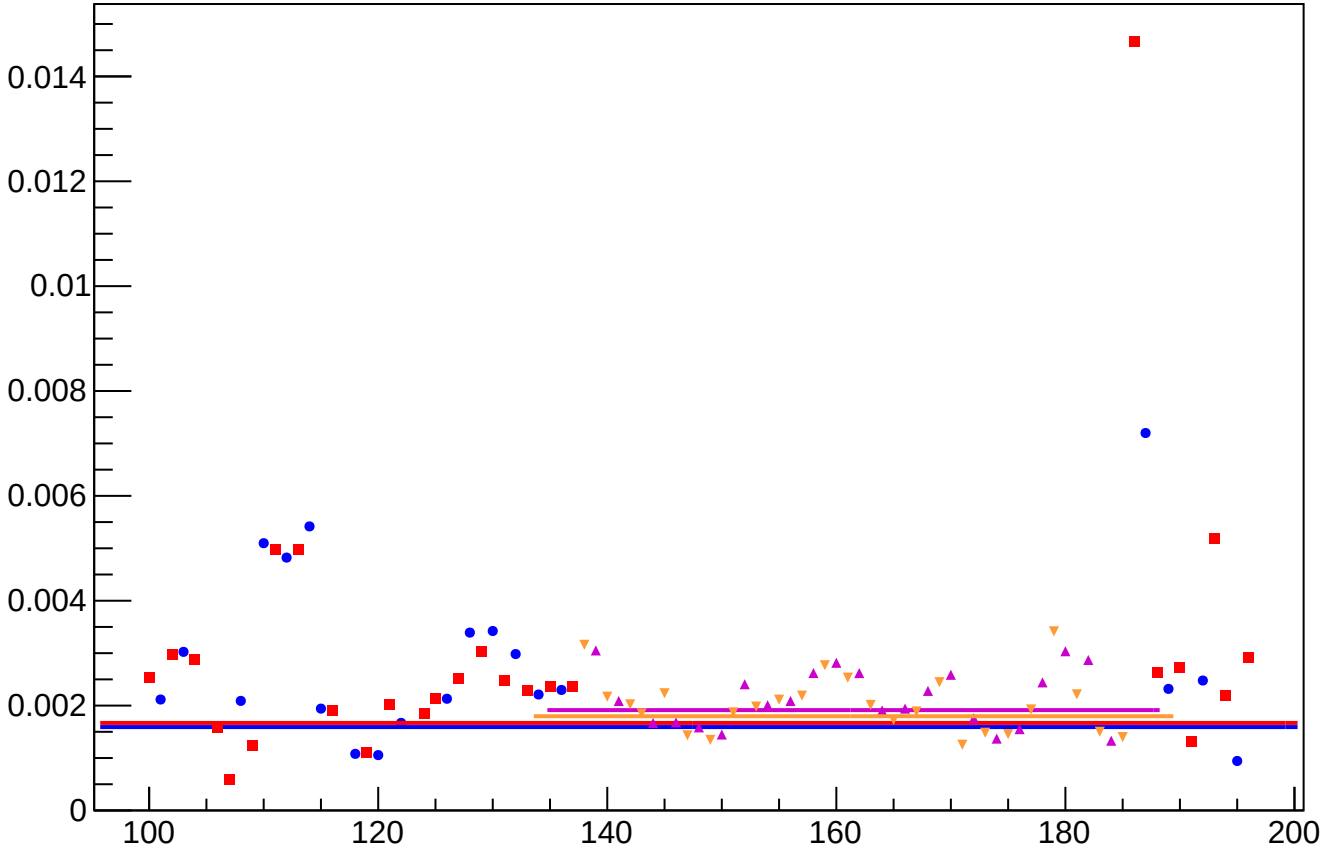
Right: 0.000+/-0.000 $\chi^2$/NDF: 55.3/45

In: 0.000+/-0.000 $\chi^2$/NDF:44.4/42

Out: 0.000+/-0.000 $\chi^2$/NDF:72.4/50

All: 0.000+/-0.000 $\chi^2$/NDF: 117.2/93

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs Slug, Sign Corrected




Right In: 0.002+/-0.000 $\chi^2$/NDF: 4054517.4/19

Left Out: 0.002+/-0.000 $\chi^2$/NDF:2279340.7/24

Right Out: 0.002+/-0.000 $\chi^2$/NDF: 5824721.6/25

Left In: 0.002+/-0.000 $\chi^2$/NDF:2171715.8/22

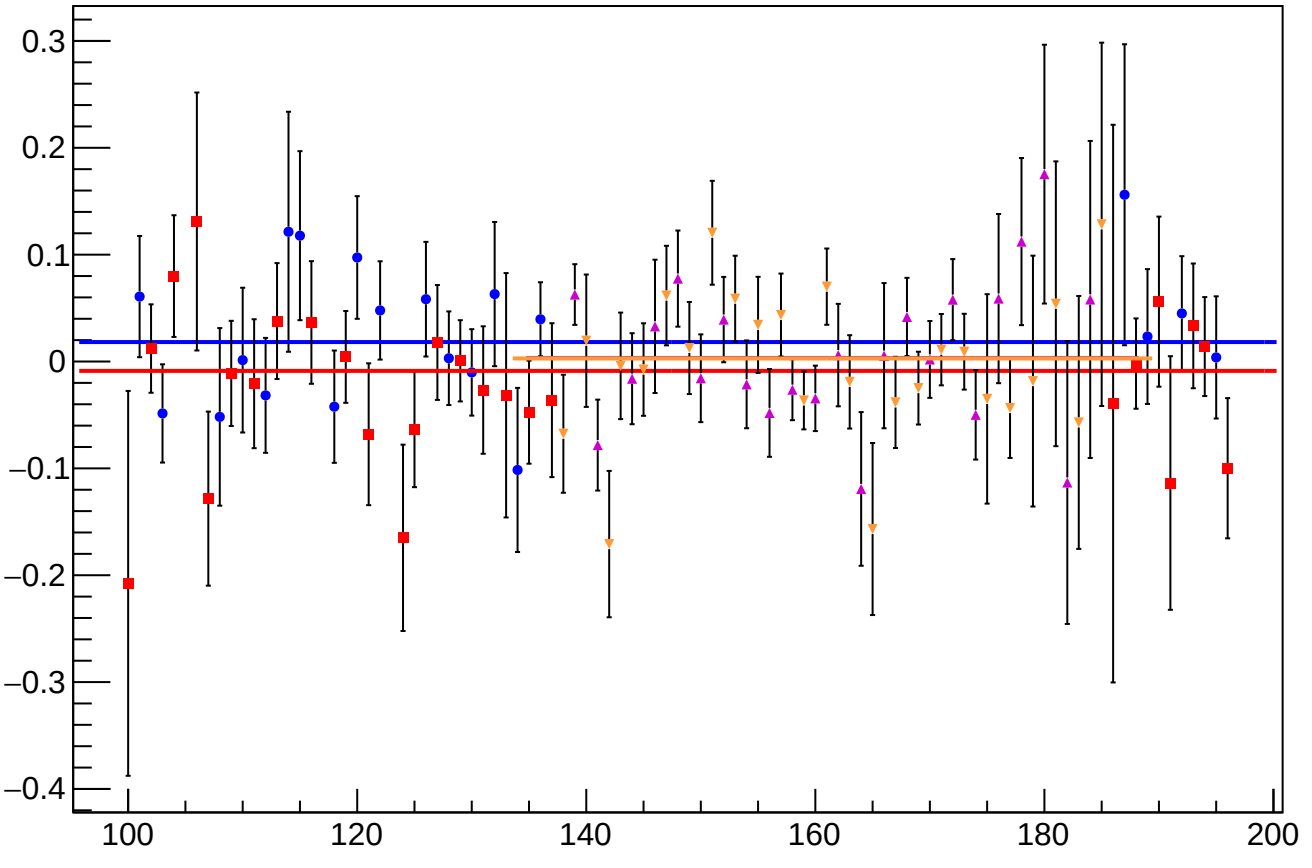
Left: 0.002+/-0.000 $\chi^2$/NDF: 4520286.4/47

Right: 0.002+/-0.000 $\chi^2$/NDF: 9897710.9/45

In: 0.002+/-0.000 $\chi^2$/NDF:6600647.8/42

Out: 0.002+/-0.000 $\chi^2$/NDF:8166932.0/50

All: 0.002+/-0.000 $\chi^2$/NDF: 14778127.6/93




Right In: 0.018+/-0.012 $\chi^2$/NDF: 16.1/19

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.9/24

Right Out: -0.009+/-0.012 $\chi^2$/NDF: 19.3/25

Left In: 0.003+/-0.009 $\chi^2$/NDF:29.8/22

Left: 0.003+/-0.007 $\chi^2$/NDF: 62.7/47

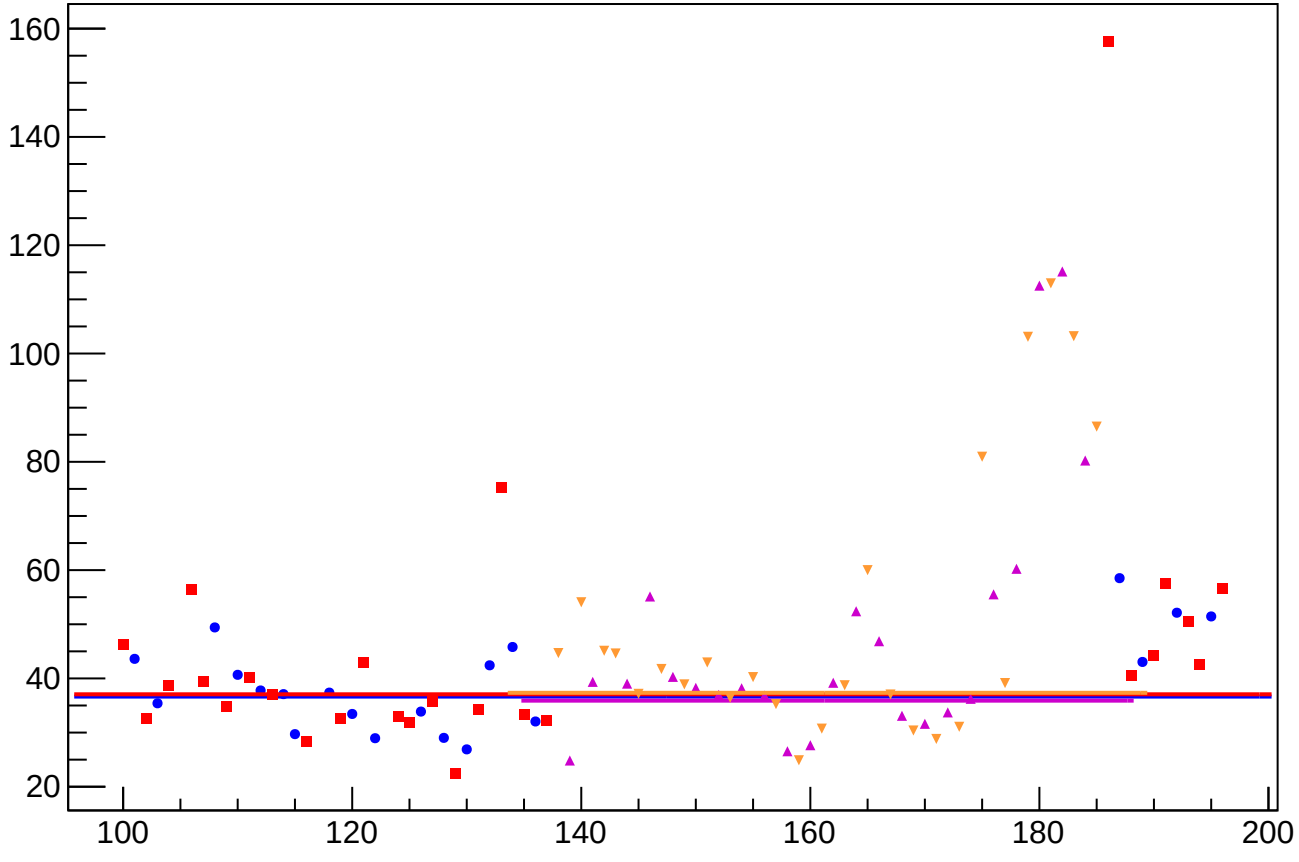
Right: 0.004+/-0.008 $\chi^2$/NDF: 37.9/45

In: 0.009+/-0.007 $\chi^2$/NDF:46.8/42

Out: -0.002+/-0.007 $\chi^2$/NDF:52.8/50

All: 0.003+/-0.005 $\chi^2$/NDF: 100.6/93

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.648+/-0.009 $\chi^2$/NDF: 795168.4/19

Left Out: 37.344+/-0.007 $\chi^2$/NDF:3696697.3/24

Right Out: 37.069+/-0.008 $\chi^2$/NDF: 1575269.9/25

Left In: 35.896+/-0.006 $\chi^2$/NDF:3138307.4/22

Left: 36.612+/-0.005 $\chi^2$/NDF: 6859720.7/47

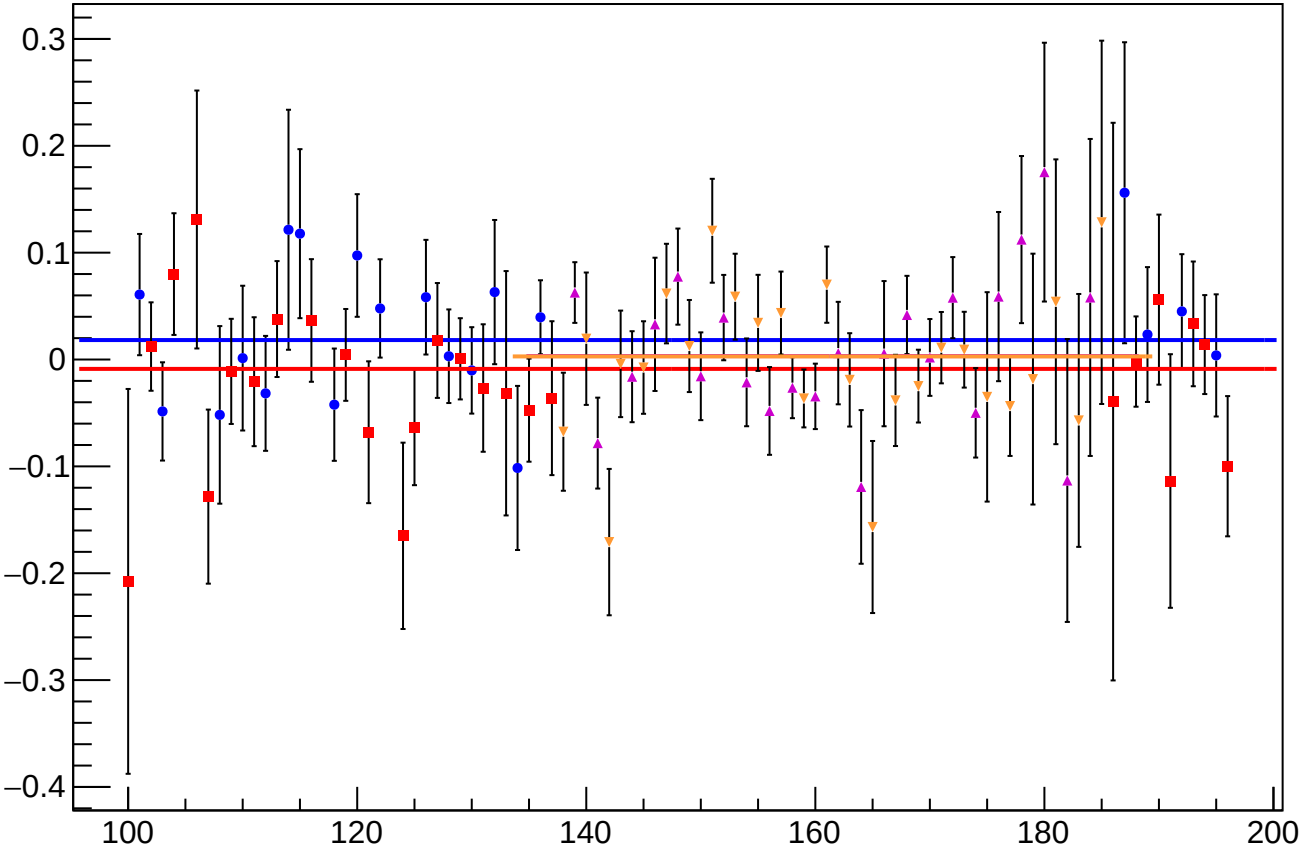
Right: 36.874+/-0.006 $\chi^2$/NDF: 2371677.4/45

In: 36.162+/-0.005 $\chi^2$/NDF:3938243.8/42

Out: 37.236+/-0.005 $\chi^2$/NDF:5272660.1/50

All: 36.710+/-0.004 $\chi^2$/NDF: 9232599.1/93

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs Slug, Sign Corrected




Right In: 0.018+/-0.012 $\chi^2$/NDF: 16.1/19

Left Out: 0.003+/-0.009 $\chi^2$/NDF:32.9/24

Right Out: -0.009+/-0.012 $\chi^2$/NDF: 19.3/25

Left In: 0.003+/-0.009 $\chi^2$/NDF:29.8/22

Left: 0.003+/-0.007 $\chi^2$/NDF: 62.7/47

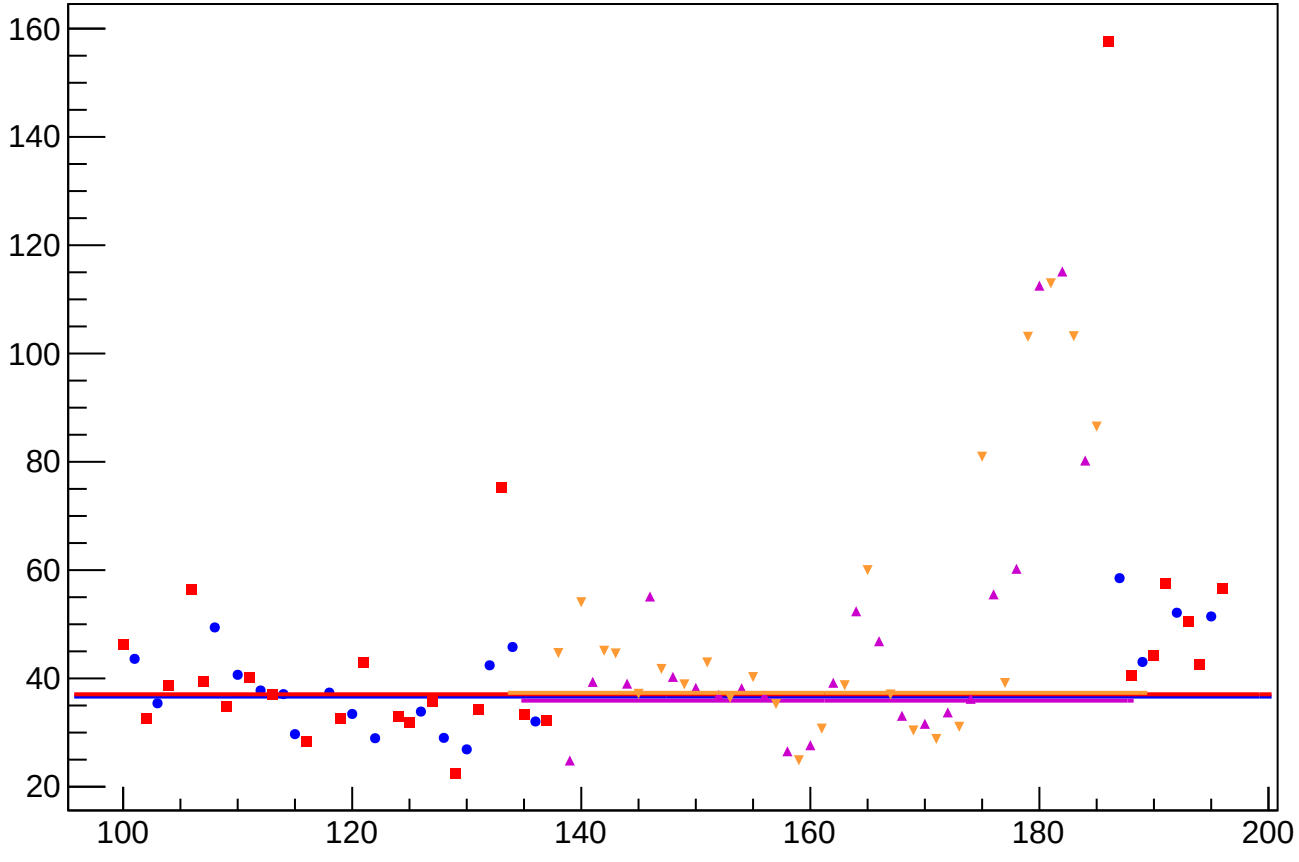
Right: 0.004+/-0.008 $\chi^2$/NDF: 37.9/45

In: 0.009+/-0.007 $\chi^2$/NDF:46.8/42

Out: -0.002+/-0.007 $\chi^2$/NDF:52.8/50

All: 0.003+/-0.005 $\chi^2$/NDF: 100.6/93

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs Slug, Sign Corrected




Right In: 36.648+/-0.009 $\chi^2$/NDF: 795168.4/19

Left Out: 37.344+/-0.007 $\chi^2$/NDF:3696697.3/24

Right Out: 37.069+/-0.008 $\chi^2$/NDF: 1575269.9/25

Left In: 35.896+/-0.006 $\chi^2$/NDF:3138307.4/22

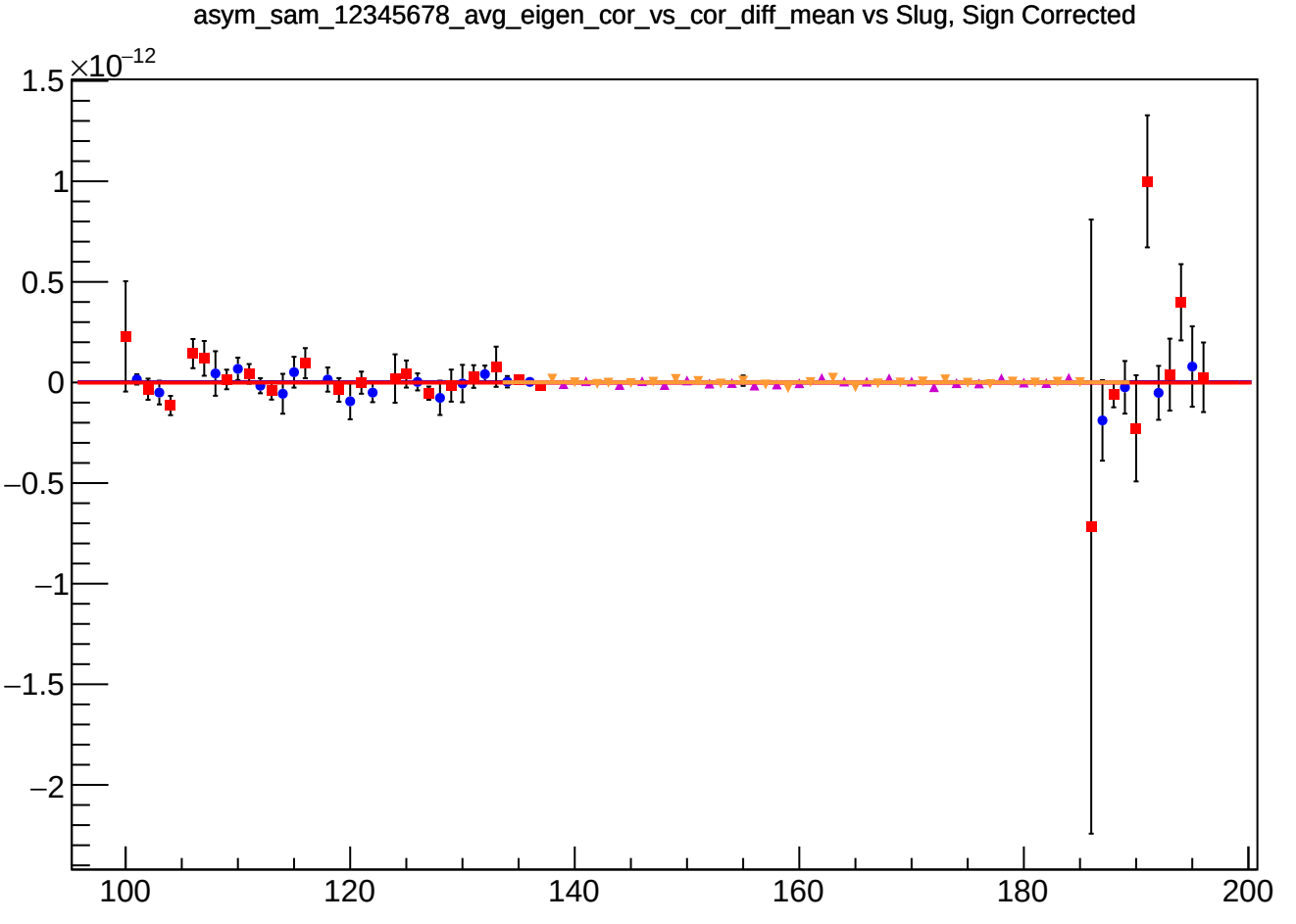
Left: 36.612+/-0.005 $\chi^2$/NDF: 6859720.7/47

Right: 36.874+/-0.006 $\chi^2$/NDF: 2371677.4/45

In: 36.162+/-0.005 $\chi^2$/NDF:3938243.8/42

Out: 37.236+/-0.005 $\chi^2$/NDF:5272660.1/50

All: 36.710+/-0.004 $\chi^2$/NDF: 9232599.1/93




Right In: 0.000+/-0.000 $\chi^2$/NDF: 8.9/19

Left Out: 0.000+/-0.000 $\chi^2$/NDF:21.4/24

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 37.1/25

Left In: 0.000+/-0.000 $\chi^2$/NDF:29.2/22

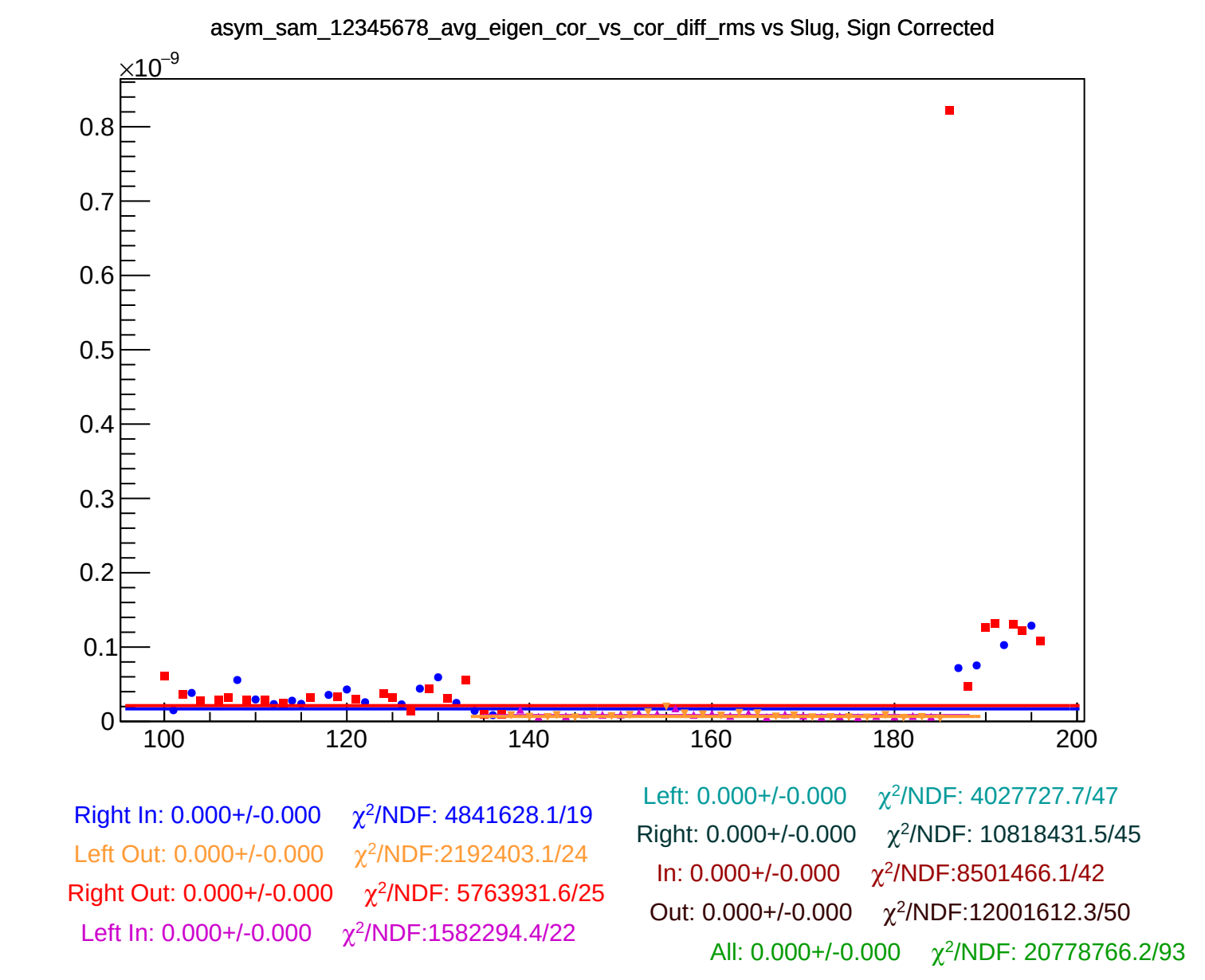
Left: 0.000+/-0.000 $\chi^2$/NDF: 50.6/47

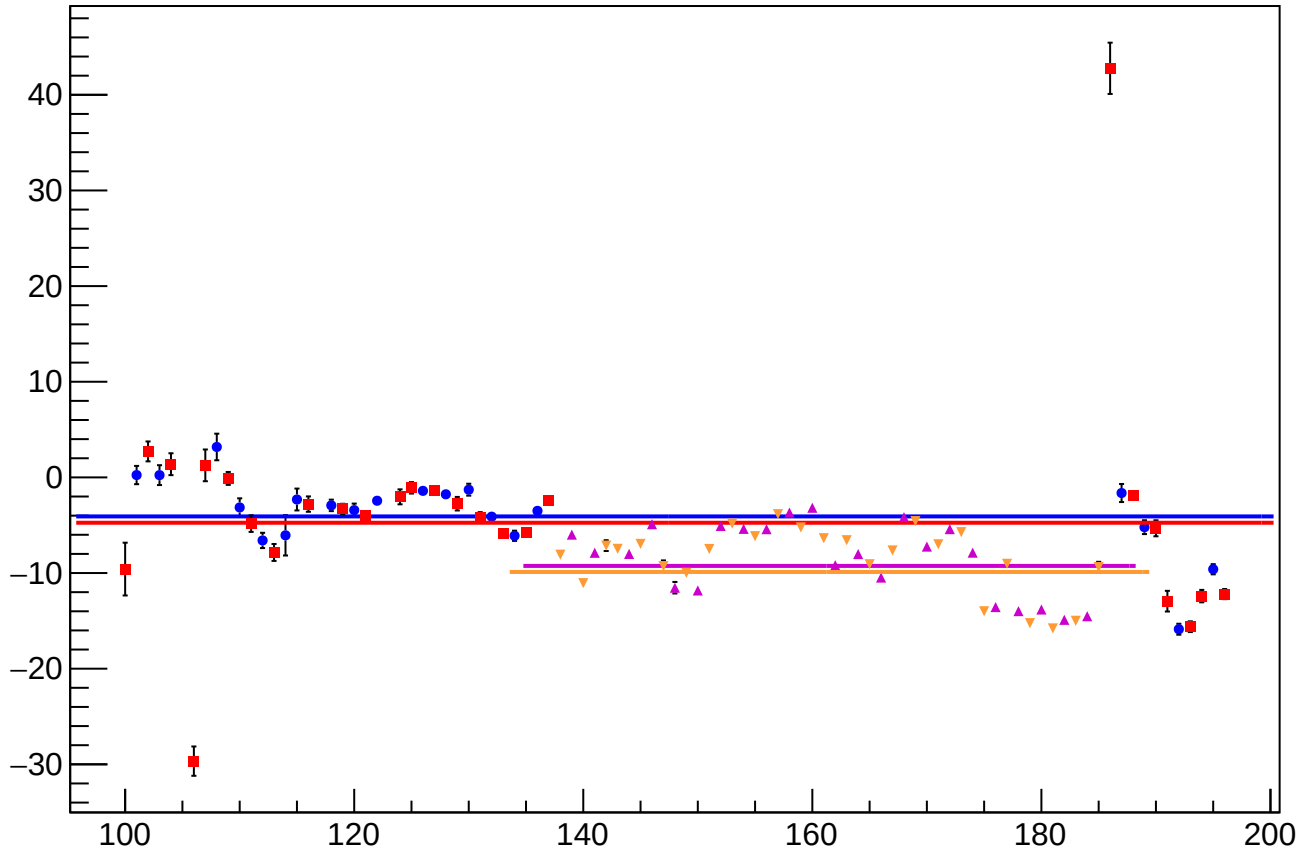
Right: 0.000+/-0.000 $\chi^2$/NDF: 46.1/45

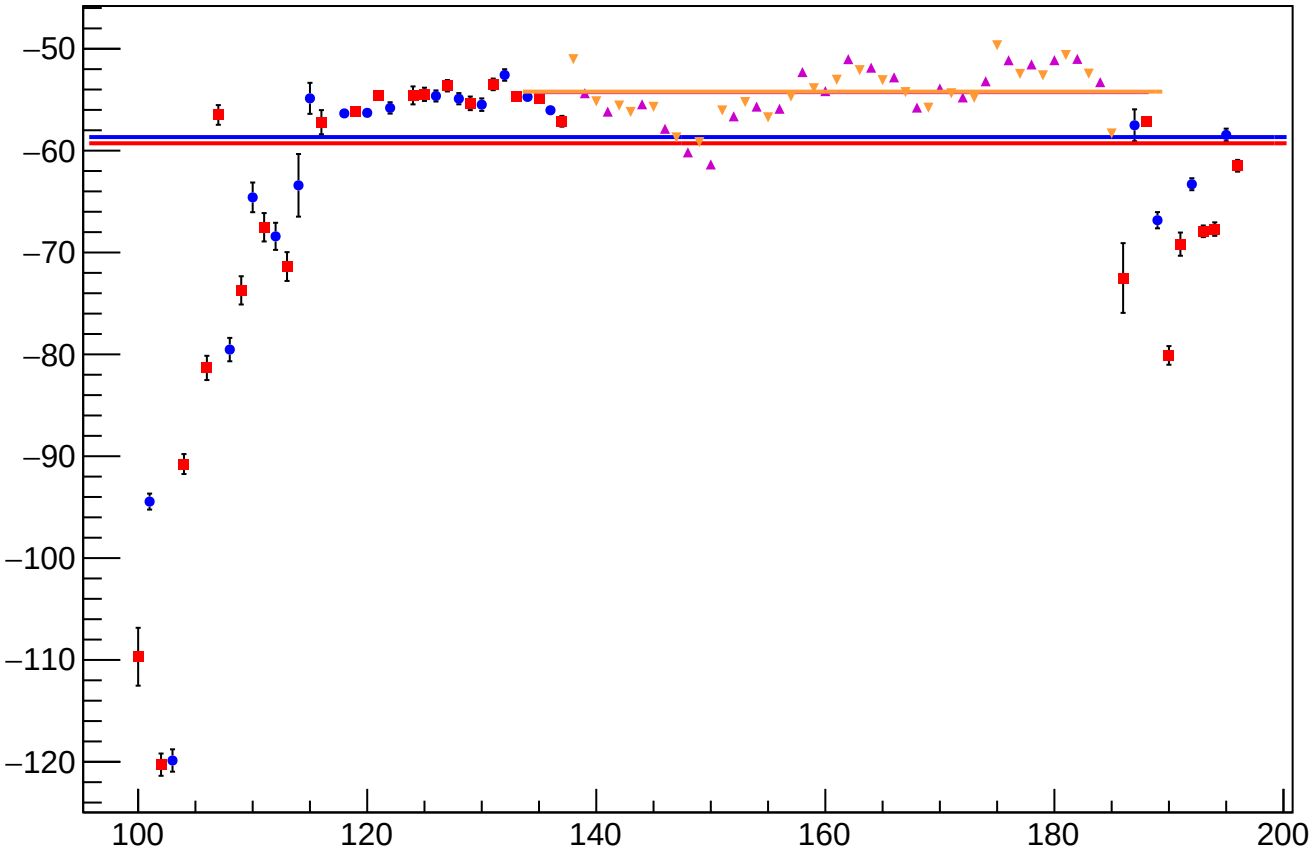
In: 0.000+/-0.000 $\chi^2$/NDF:38.2/42

Out: 0.000+/-0.000 $\chi^2$/NDF:58.6/50

All: 0.000+/-0.000 $\chi^2$/NDF: 96.7/93


asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs Slug, Sign Corrected
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
100
120
140
160
180
200
Right In: 0.000+/-0.000 χ²/NDF: 4841628.1/19
Left Out: 0.000+/-0.000 χ²/NDF:2192403.1/24
Right Out: 0.000+/-0.000 χ²/NDF: 5763931.6/25
Left In: 0.000+/-0.000 χ²/NDF:1582294.4/22
Left: 0.000+/-0.000 χ²/NDF: 4027727.7/47
Right: 0.000+/-0.000 χ²/NDF: 10818431.5/45
In: 0.000+/-0.000 χ²/NDF:8501466.1/42
Out: 0.000+/-0.000 χ²/NDF:12001612.3/50
All: 0.000+/-0.000 χ²/NDF: 20778766.2/93


reg_asym_sam1_diff_bpm1X_slope vs Slug, Sign Corrected
40
30
20
10
0
−10
−20
−30
100
120
140
160
180
200
Right In: -4.080+/-0.125 χ²/NDF: 730.0/19
Left Out: -9.886+/-0.070 χ²/NDF:3206.9/24
Right Out: -4.741+/-0.118 χ²/NDF: 1752.6/25
Left In: -9.255+/-0.072 χ²/NDF:3067.6/22
Left: -9.580+/-0.050 χ²/NDF: 6314.6/47
Right: -4.429+/-0.086 χ²/NDF: 2497.4/45
In: -7.971+/-0.062 χ²/NDF:5092.2/42
Out: -8.558+/-0.060 χ²/NDF:6373.2/50
All: -8.275+/-0.043 χ²/NDF: 11511.7/93




Right In: -58.668+/-0.127 $\chi^2$/NDF: 6306.4/19

Left Out: -54.206+/-0.056 $\chi^2$/NDF:1857.6/24

Right Out: -59.278+/-0.122 $\chi^2$/NDF: 6941.3/25

Left In: -54.257+/-0.058 $\chi^2$/NDF:2489.9/22

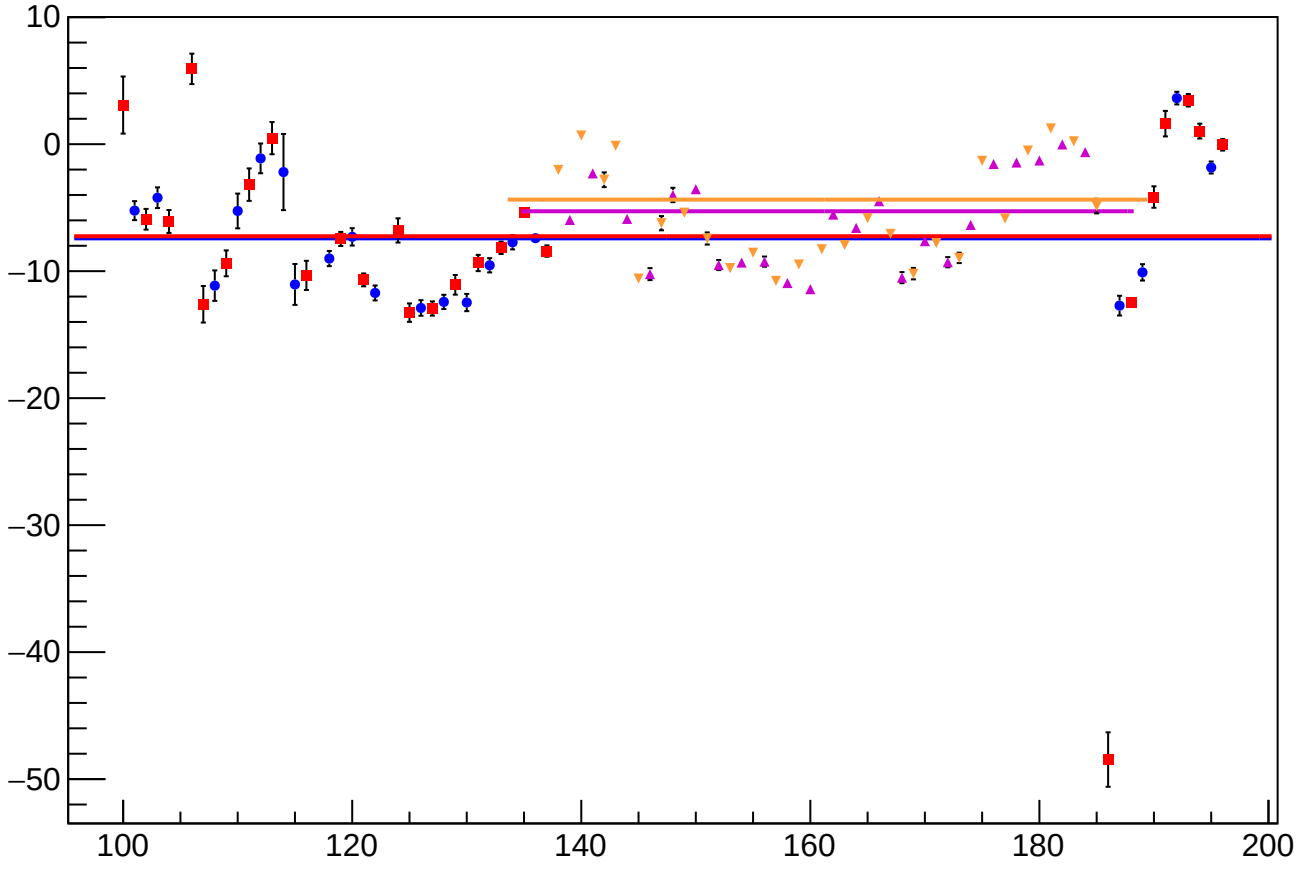
Left: -54.230+/-0.040 $\chi^2$/NDF: 4347.9/47

Right: -58.985+/-0.088 $\chi^2$/NDF: 13259.7/45

In: -55.024+/-0.053 $\chi^2$/NDF:9791.6/42

Out: -55.081+/-0.051 $\chi^2$/NDF:10222.4/50

All: -55.054+/-0.037 $\chi^2$/NDF: 20014.6/93




Right In: -7.416+/-0.129 $\chi^2$/NDF: 1058.4/19

Left Out: -4.366+/-0.069 $\chi^2$/NDF:3701.4/24

Right Out: -7.250+/-0.118 $\chi^2$/NDF: 2307.3/25

Left In: -5.283+/-0.071 $\chi^2$/NDF:2750.2/22

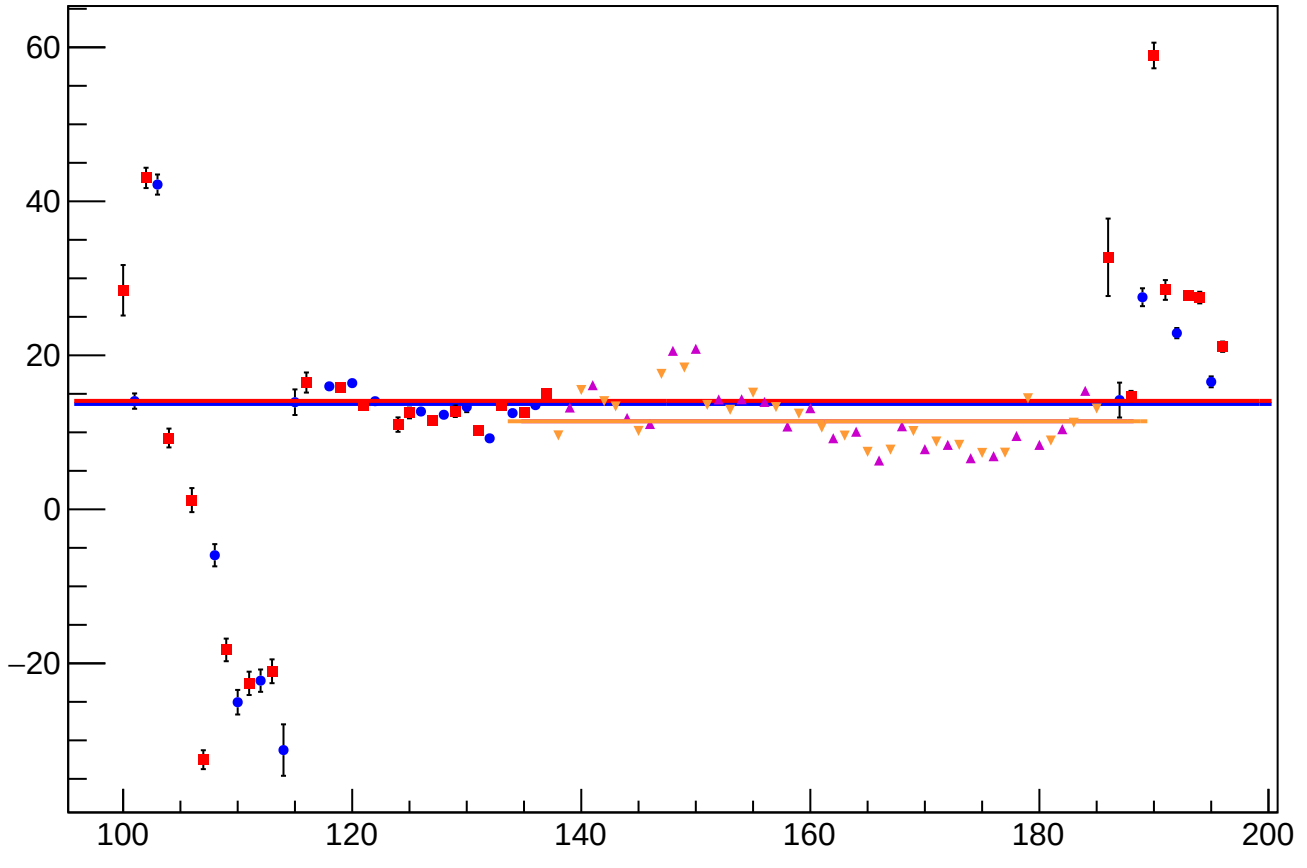
Left: -4.813+/-0.050 $\chi^2$/NDF: 6536.9/47

Right: -7.326+/-0.087 $\chi^2$/NDF: 3366.6/45

In: -5.781+/-0.062 $\chi^2$/NDF:4019.0/42

Out: -5.106+/-0.060 $\chi^2$/NDF:6453.3/50

All: -5.430+/-0.043 $\chi^2$/NDF: 10533.7/93




Right In: 13.687+/-0.142 $\chi^2$/NDF: 2509.2/19

Left Out: 11.438+/-0.062 $\chi^2$/NDF:2435.7/24

Right Out: 14.084+/-0.140 $\chi^2$/NDF: 5481.4/25

Left In: 11.441+/-0.064 $\chi^2$/NDF:3358.4/22

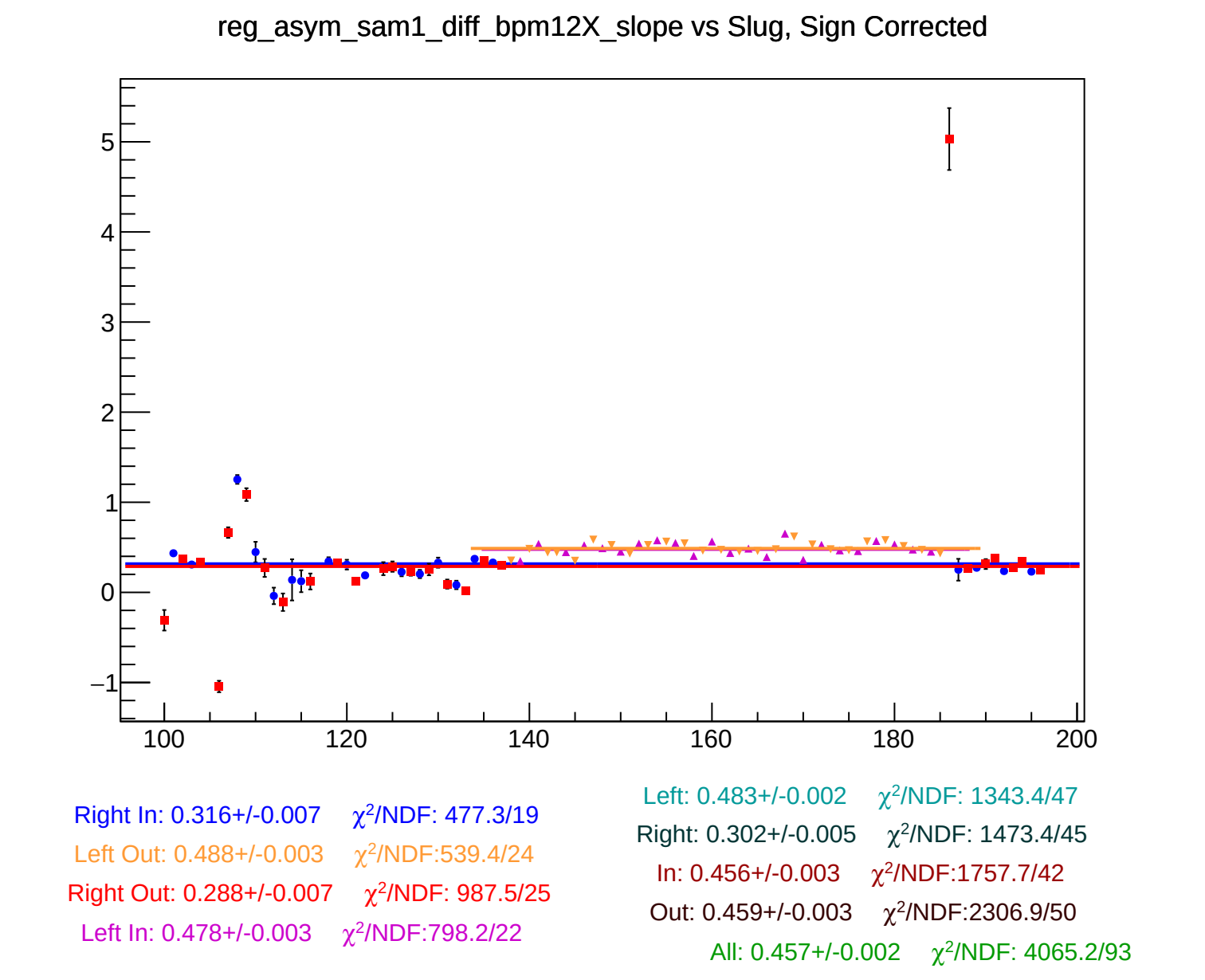
Left: 11.439+/-0.045 $\chi^2$/NDF: 5794.1/47

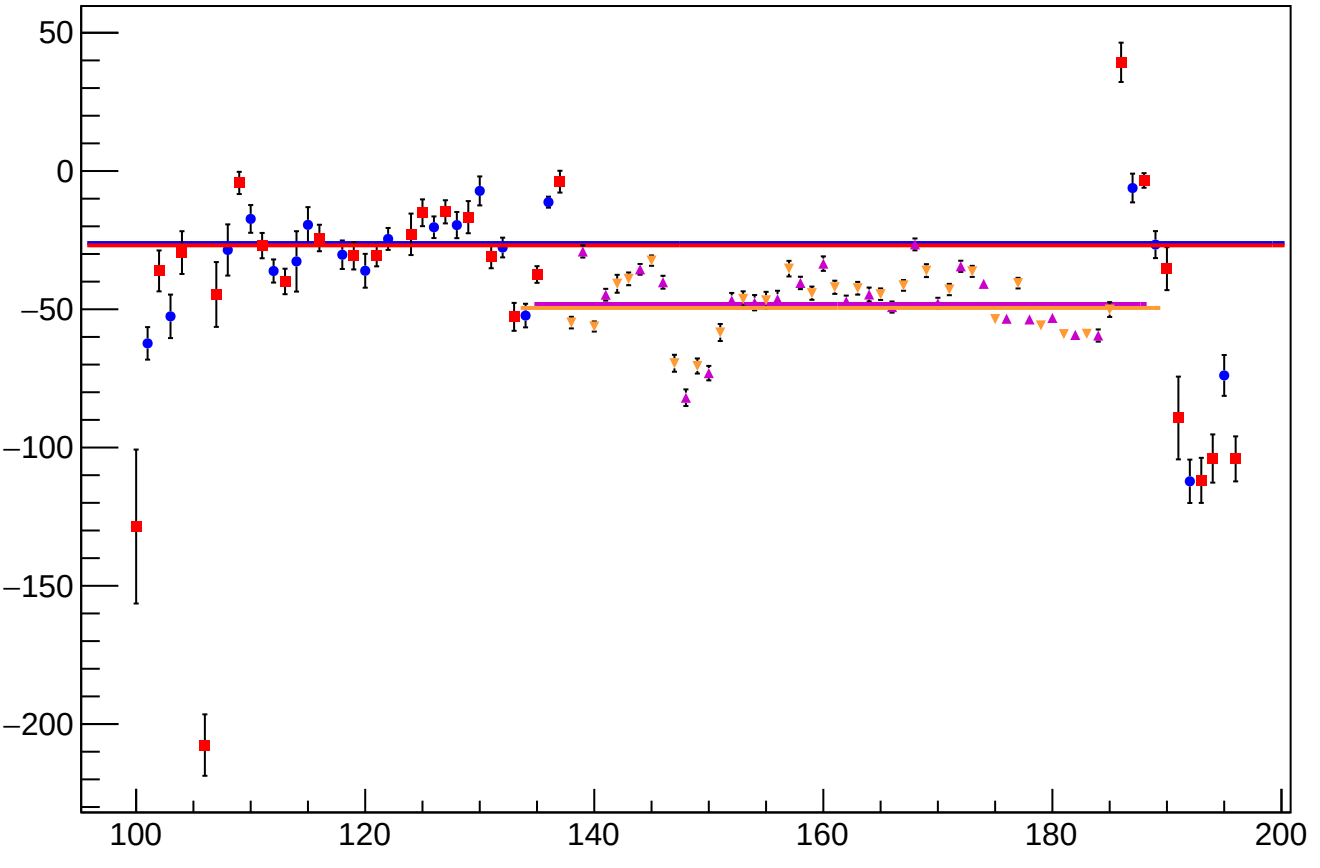
Right: 13.889+/-0.100 $\chi^2$/NDF: 7994.5/45

In: 11.821+/-0.059 $\chi^2$/NDF:6074.7/42

Out: 11.872+/-0.057 $\chi^2$/NDF:8215.9/50

All: 11.847+/-0.041 $\chi^2$/NDF: 14291.0/93


reg_asym_sam1_diff_bpm12X_slope vs Slug, Sign Corrected
5
4
3
2
1
0
−1
100
120
140
160
180
200
Right In: 0.316+/-0.007 χ²/NDF: 477.3/19
Left Out: 0.488+/-0.003 χ²/NDF:539.4/24
Right Out: 0.288+/-0.007 χ²/NDF: 987.5/25
Left In: 0.478+/-0.003 χ²/NDF:798.2/22
Left: 0.483+/-0.002 χ²/NDF: 1343.4/47
Right: 0.302+/-0.005 χ²/NDF: 1473.4/45
In: 0.456+/-0.003 χ²/NDF:1757.7/42
Out: 0.459+/-0.003 χ²/NDF:2306.9/50
All: 0.457+/-0.002 χ²/NDF: 4065.2/93




Right In: -26.051+/-1.020 $\chi^2$/NDF: 351.1/19

Left Out: -49.516+/-0.402 $\chi^2$/NDF:576.3/24

Right Out: -26.880+/-1.000 $\chi^2$/NDF: 875.3/25

Left In: -48.087+/-0.418 $\chi^2$/NDF:706.2/22

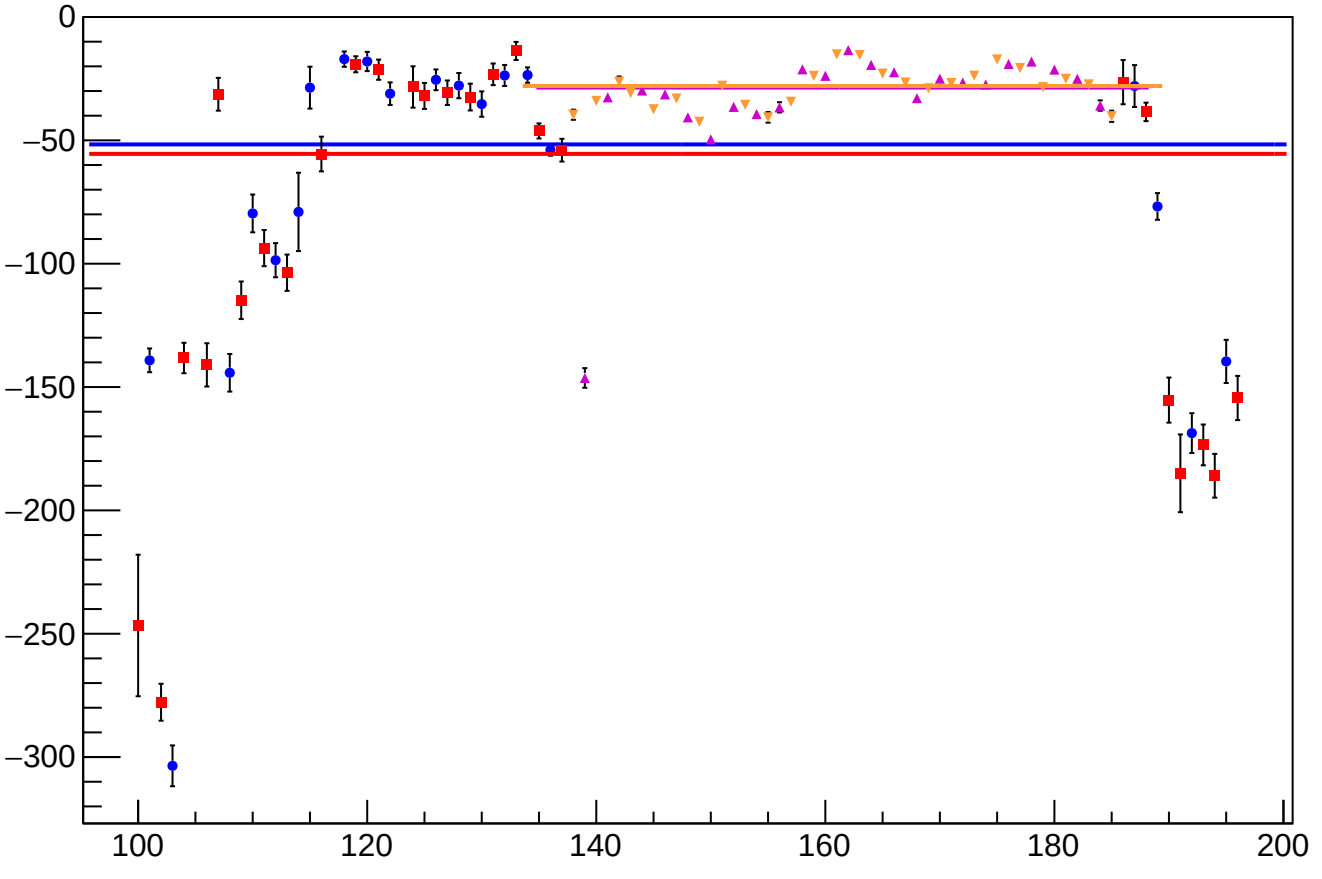
Left: -48.829+/-0.290 $\chi^2$/NDF: 1288.6/47

Right: -26.474+/-0.714 $\chi^2$/NDF: 1226.7/45

In: -44.913+/-0.387 $\chi^2$/NDF:1456.6/42

Out: -46.359+/-0.373 $\chi^2$/NDF:1893.0/50

All: -45.662+/-0.269 $\chi^2$/NDF: 3356.8/93




Right In: -51.641+/-1.053 $\chi^2$/NDF: 2229.4/19

Left Out: -27.957+/-0.321 $\chi^2$/NDF:497.7/24

Right Out: -55.480+/-1.082 $\chi^2$/NDF: 2565.8/25

Left In: -28.592+/-0.334 $\chi^2$/NDF:1480.6/22

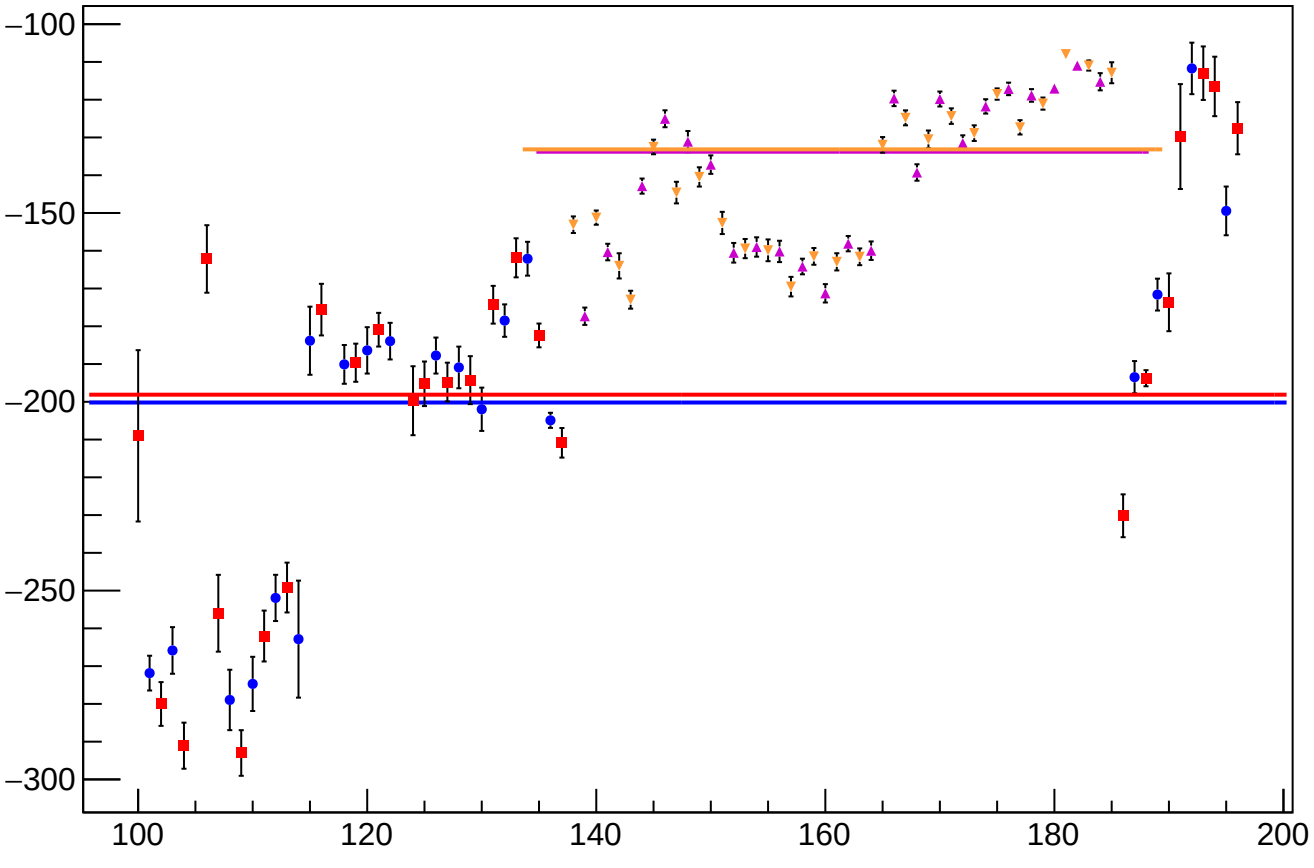
Left: -28.263+/-0.231 $\chi^2$/NDF: 1980.2/47

Right: -53.510+/-0.755 $\chi^2$/NDF: 4801.7/45

In: -30.694+/-0.318 $\chi^2$/NDF:4145.3/42

Out: -30.186+/-0.308 $\chi^2$/NDF:3658.6/50

All: -30.432+/-0.221 $\chi^2$/NDF: 7805.1/93




Right In: -200.191+/-1.068 $\chi^2$/NDF: 1063.1/19

Left Out: -133.155+/-0.403 $\chi^2$/NDF:2530.7/24

Right Out: -198.117+/-1.031 $\chi^2$/NDF: 1440.8/25

Left In: -133.777+/-0.417 $\chi^2$/NDF:2440.7/22

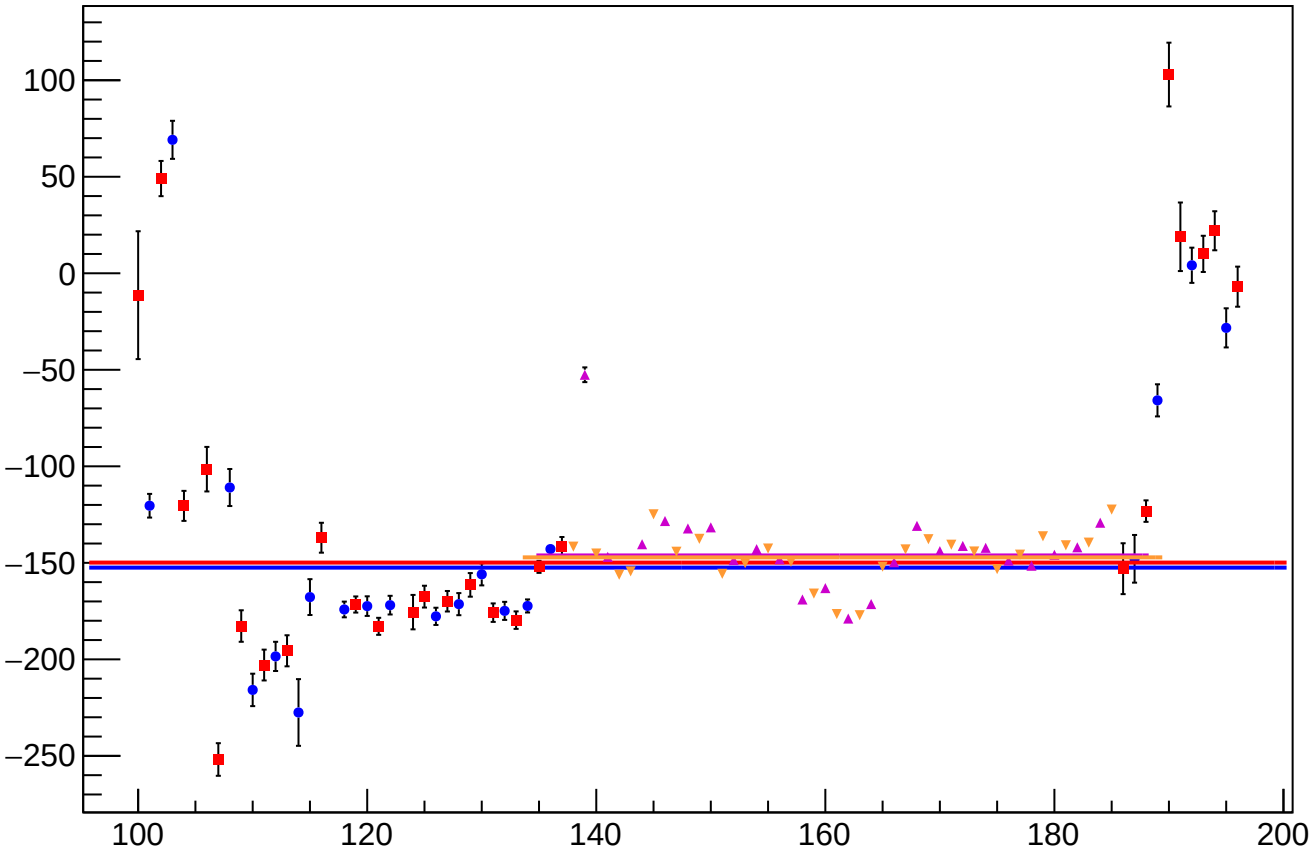
Left: -133.455+/-0.290 $\chi^2$/NDF: 4972.5/47

Right: -199.117+/-0.742 $\chi^2$/NDF: 2505.9/45

In: -142.563+/-0.388 $\chi^2$/NDF:6859.7/42

Out: -141.768+/-0.375 $\chi^2$/NDF:7418.0/50

All: -142.152+/-0.270 $\chi^2$/NDF: 14279.9/93




Right In: -152.481+/-1.188 $\chi^2$/NDF: 1398.2/19

Left Out: -147.167+/-0.358 $\chi^2$/NDF:1245.6/24

Right Out: -149.871+/-1.245 $\chi^2$/NDF: 2078.4/25

Left In: -146.173+/-0.371 $\chi^2$/NDF:1793.8/22

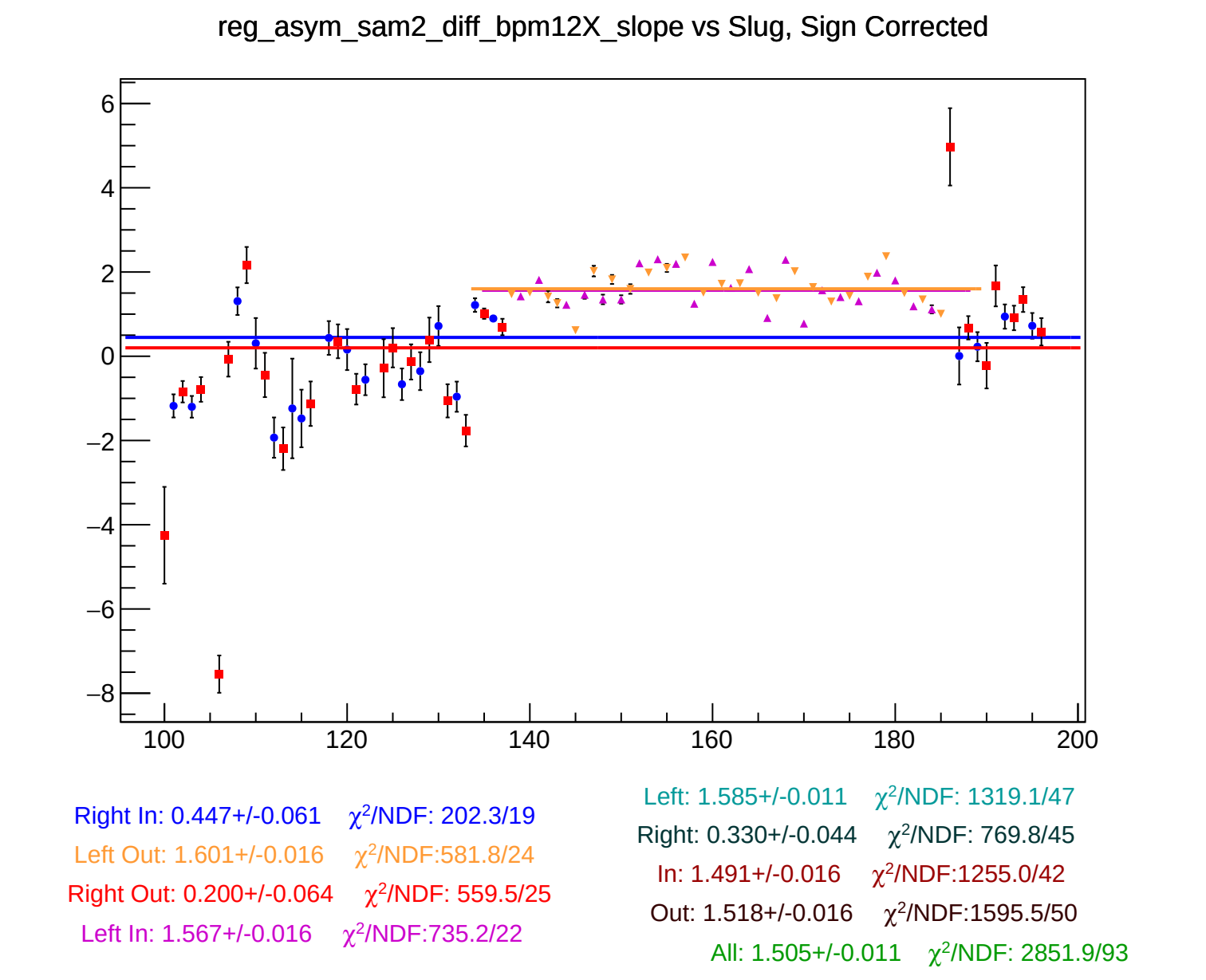
Left: -146.687+/-0.258 $\chi^2$/NDF: 3043.1/47

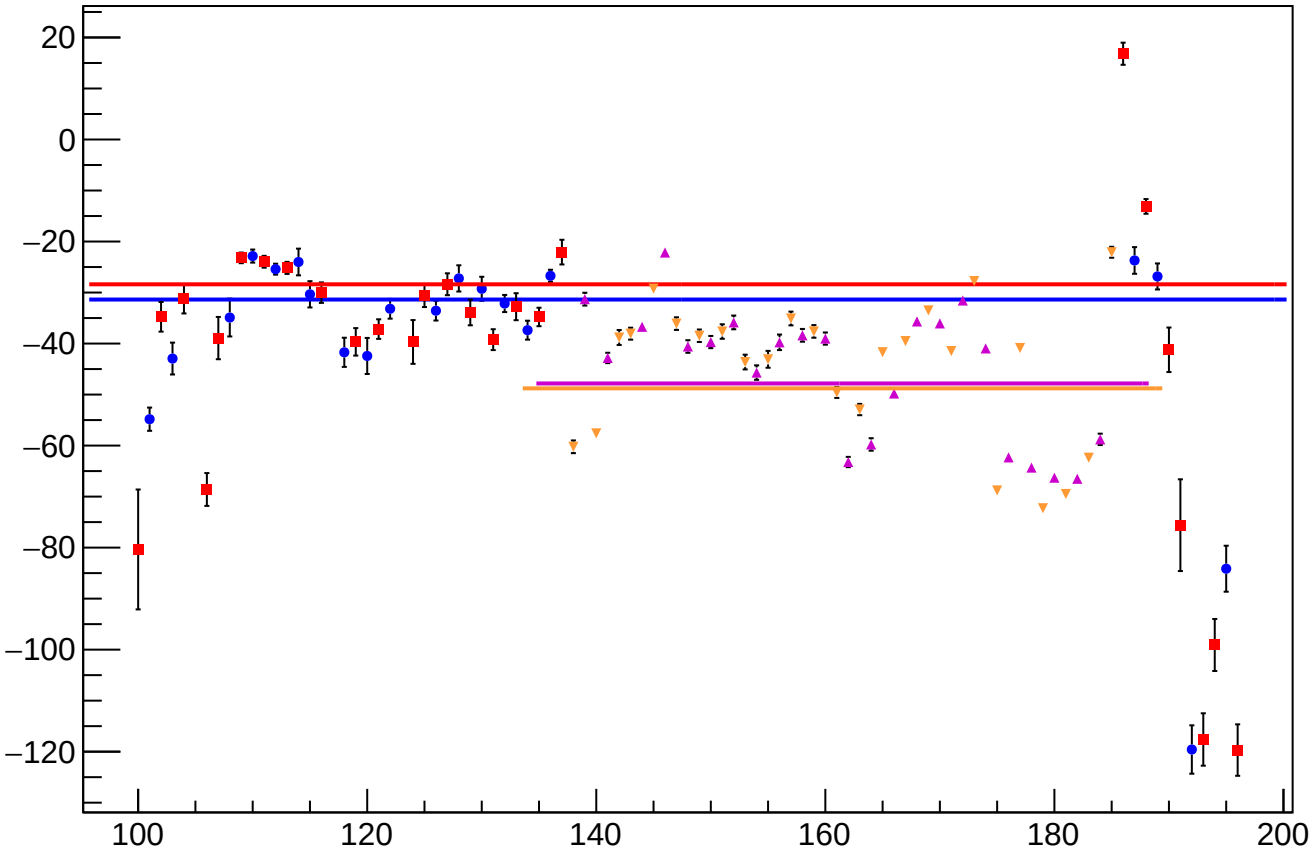
Right: -151.236+/-0.859 $\chi^2$/NDF: 3478.9/45

In: -146.733+/-0.354 $\chi^2$/NDF:3217.6/42

Out: -147.373+/-0.344 $\chi^2$/NDF:3328.5/50

All: -147.062+/-0.247 $\chi^2$/NDF: 6547.7/93


reg_asym_sam2_diff_bpm12X_slope vs Slug, Sign Corrected
6
4
2
0
−2
−4
−6
−8
100
120
140
160
180
200
Right In: 0.447+/-0.061 χ²/NDF: 202.3/19
Left Out: 1.601+/-0.016 χ²/NDF:581.8/24
Right Out: 0.200+/-0.064 χ²/NDF: 559.5/25
Left In: 1.567+/-0.016 χ²/NDF:735.2/22
Left: 1.585+/-0.011 χ²/NDF: 1319.1/47
Right: 0.330+/-0.044 χ²/NDF: 769.8/45
In: 1.491+/-0.016 χ²/NDF:1255.0/42
Out: 1.518+/-0.016 χ²/NDF:1595.5/50
All: 1.505+/-0.011 χ²/NDF: 2851.9/93




Right In: -31.371+/-0.449 $\chi^2$/NDF: 753.2/19

Left Out: -48.783+/-0.167 $\chi^2$/NDF:8953.8/24

Right Out: -28.386+/-0.415 $\chi^2$/NDF: 1741.9/25

Left In: -47.822+/-0.170 $\chi^2$/NDF:7223.0/22

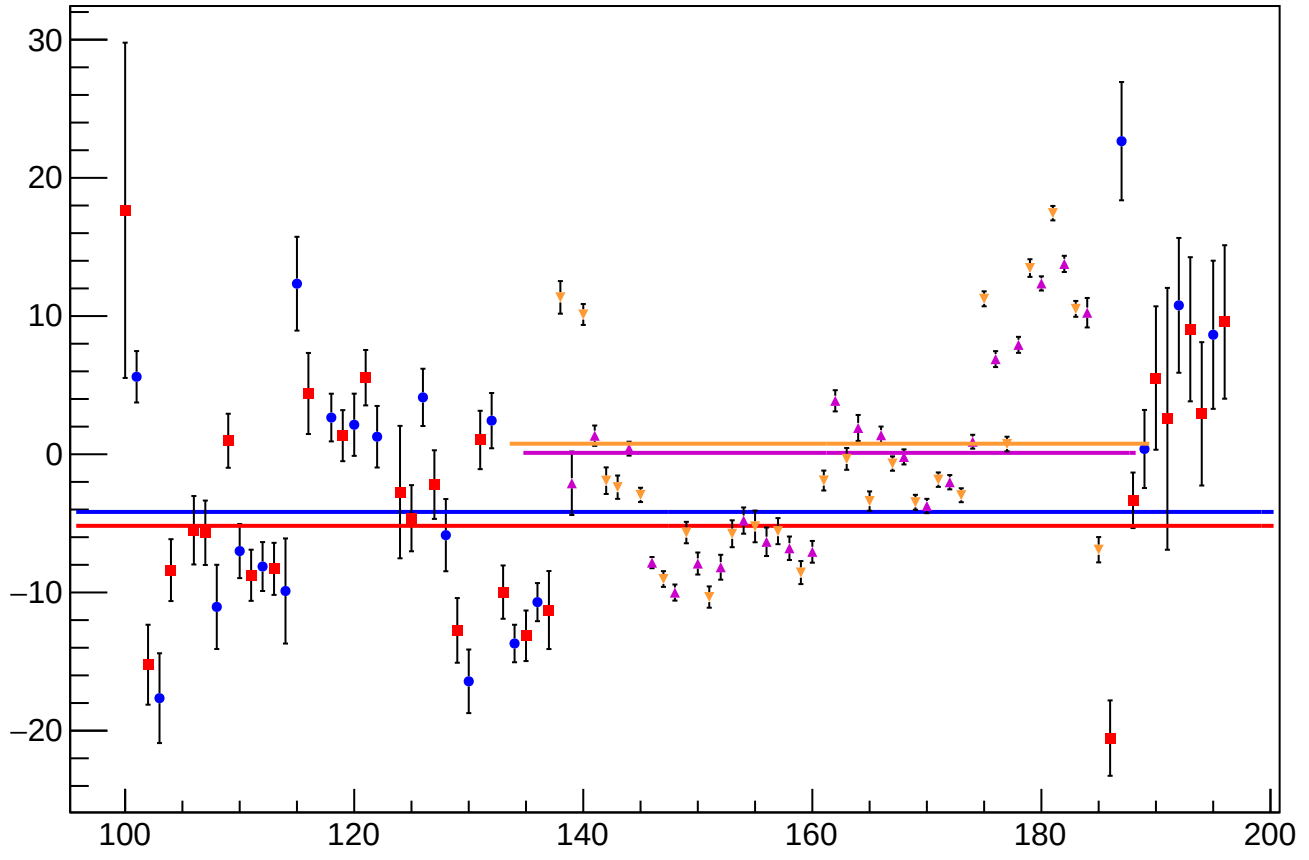
Left: -48.311+/-0.119 $\chi^2$/NDF: 16193.1/47

Right: -29.762+/-0.305 $\chi^2$/NDF: 2519.0/45

In: -45.759+/-0.159 $\chi^2$/NDF:9151.0/42

Out: -45.948+/-0.155 $\chi^2$/NDF:12775.0/50

All: -45.856+/-0.111 $\chi^2$/NDF: 21926.7/93




Right In: -4.172+/-0.493 $\chi^2$/NDF: 296.9/19

Left Out: 0.765+/-0.132 $\chi^2$/NDF:3467.2/24

Right Out: -5.179+/-0.489 $\chi^2$/NDF: 190.9/25

Left In: 0.102+/-0.133 $\chi^2$/NDF:2721.8/22

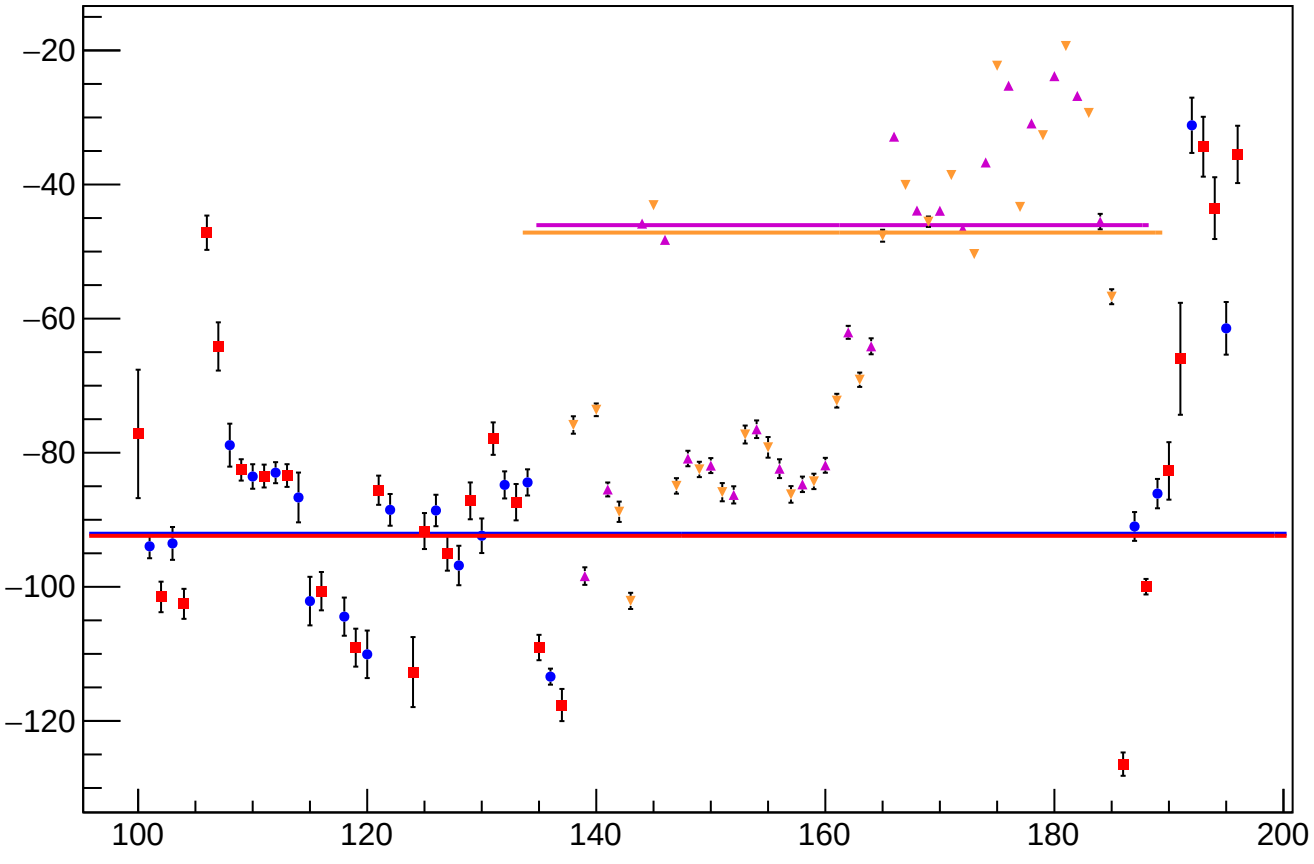
Left: 0.435+/-0.094 $\chi^2$/NDF: 6201.6/47

Right: -4.680+/-0.347 $\chi^2$/NDF: 489.8/45

In: -0.187+/-0.128 $\chi^2$/NDF:3088.6/42

Out: 0.360+/-0.128 $\chi^2$/NDF:3795.9/50

All: 0.087+/-0.091 $\chi^2$/NDF: 6893.6/93




Right In: -92.082+/-0.499 $\chi^2$/NDF: 768.0/19

Left Out: -47.167+/-0.168 $\chi^2$/NDF:17658.5/24

Right Out: -92.390+/-0.462 $\chi^2$/NDF: 1706.2/25

Left In: -46.058+/-0.170 $\chi^2$/NDF:14769.8/22

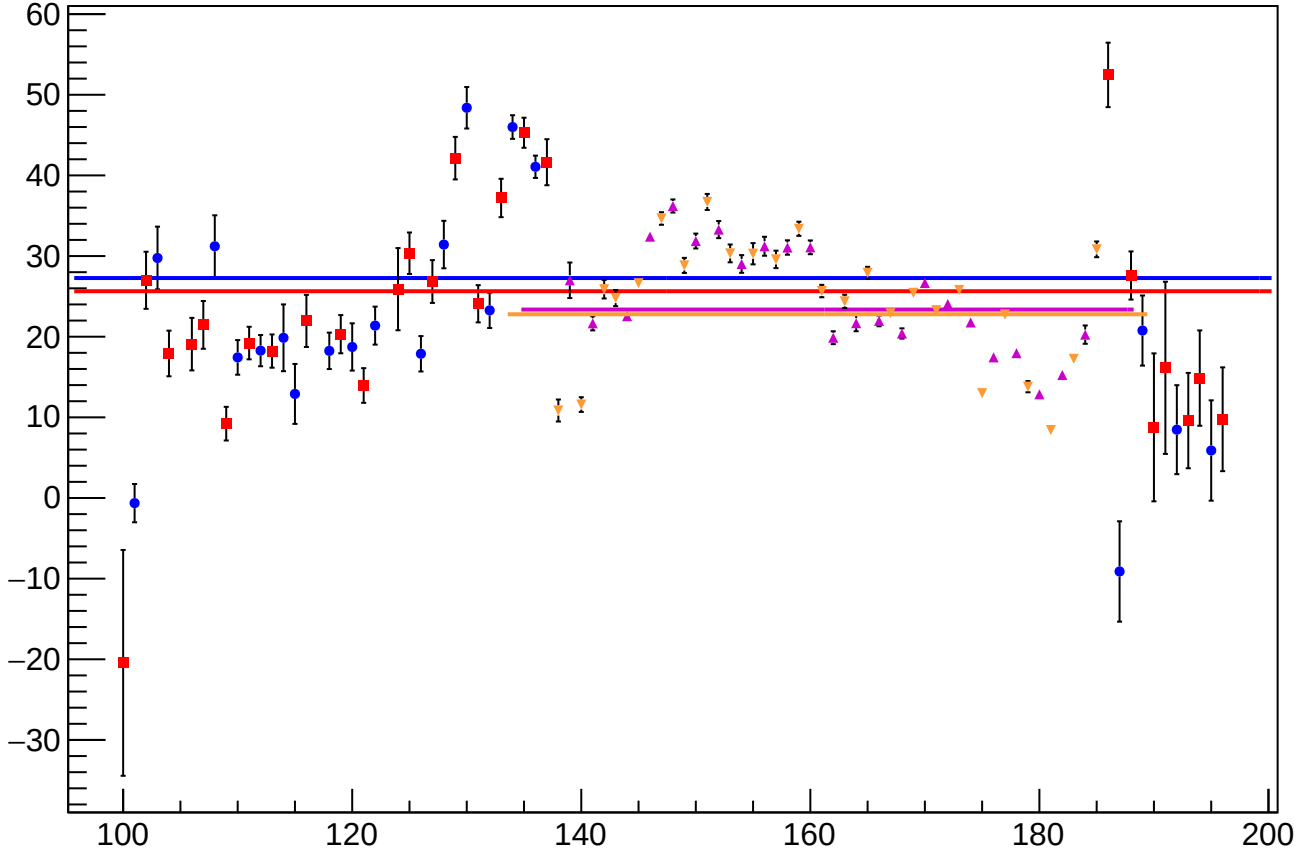
Left: -46.621+/-0.119 $\chi^2$/NDF: 32449.9/47

Right: -92.248+/-0.339 $\chi^2$/NDF: 2474.4/45

In: -50.853+/-0.161 $\chi^2$/NDF:23158.6/42

Out: -52.427+/-0.157 $\chi^2$/NDF:27837.9/50

All: -51.657+/-0.113 $\chi^2$/NDF: 51045.3/93




Right In: 27.274+/-0.557 $\chi^2$/NDF: 644.9/19

Left Out: 22.782+/-0.147 $\chi^2$/NDF:2412.9/24

Right Out: 25.638+/-0.564 $\chi^2$/NDF: 421.1/25

Left In: 23.366+/-0.149 $\chi^2$/NDF:1785.4/22

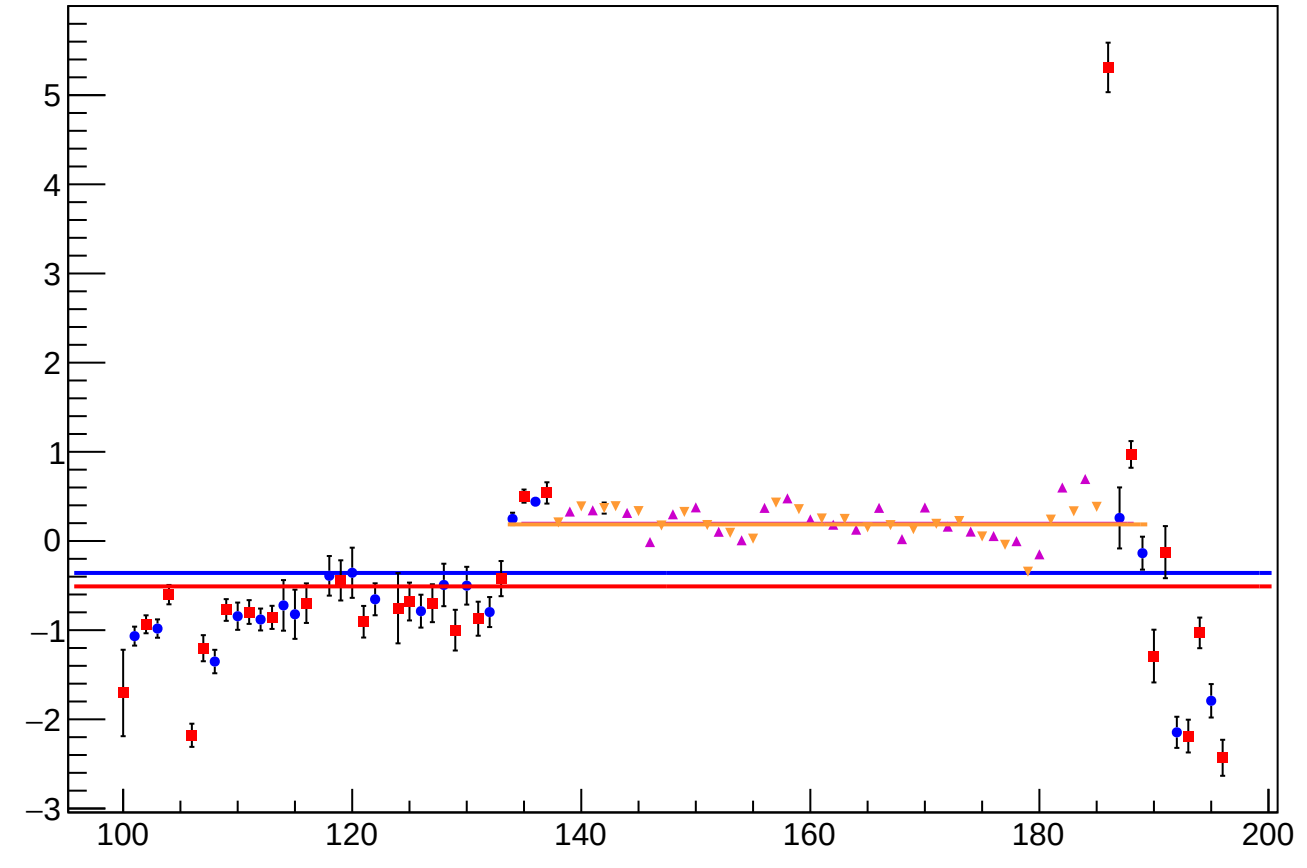
Left: 23.071+/-0.105 $\chi^2$/NDF: 4206.1/47

Right: 26.467+/-0.396 $\chi^2$/NDF: 1070.3/45

In: 23.626+/-0.144 $\chi^2$/NDF:2476.3/42

Out: 22.964+/-0.143 $\chi^2$/NDF:2858.1/50

All: 23.293+/-0.101 $\chi^2$/NDF: 5345.1/93




Right In: -0.358+/-0.029 $\chi^2$/NDF: 630.7/19

Left Out: 0.186+/-0.007 $\chi^2$/NDF:645.7/24

Right Out: -0.509+/-0.030 $\chi^2$/NDF: 1240.1/25

Left In: 0.193+/-0.007 $\chi^2$/NDF:938.2/22

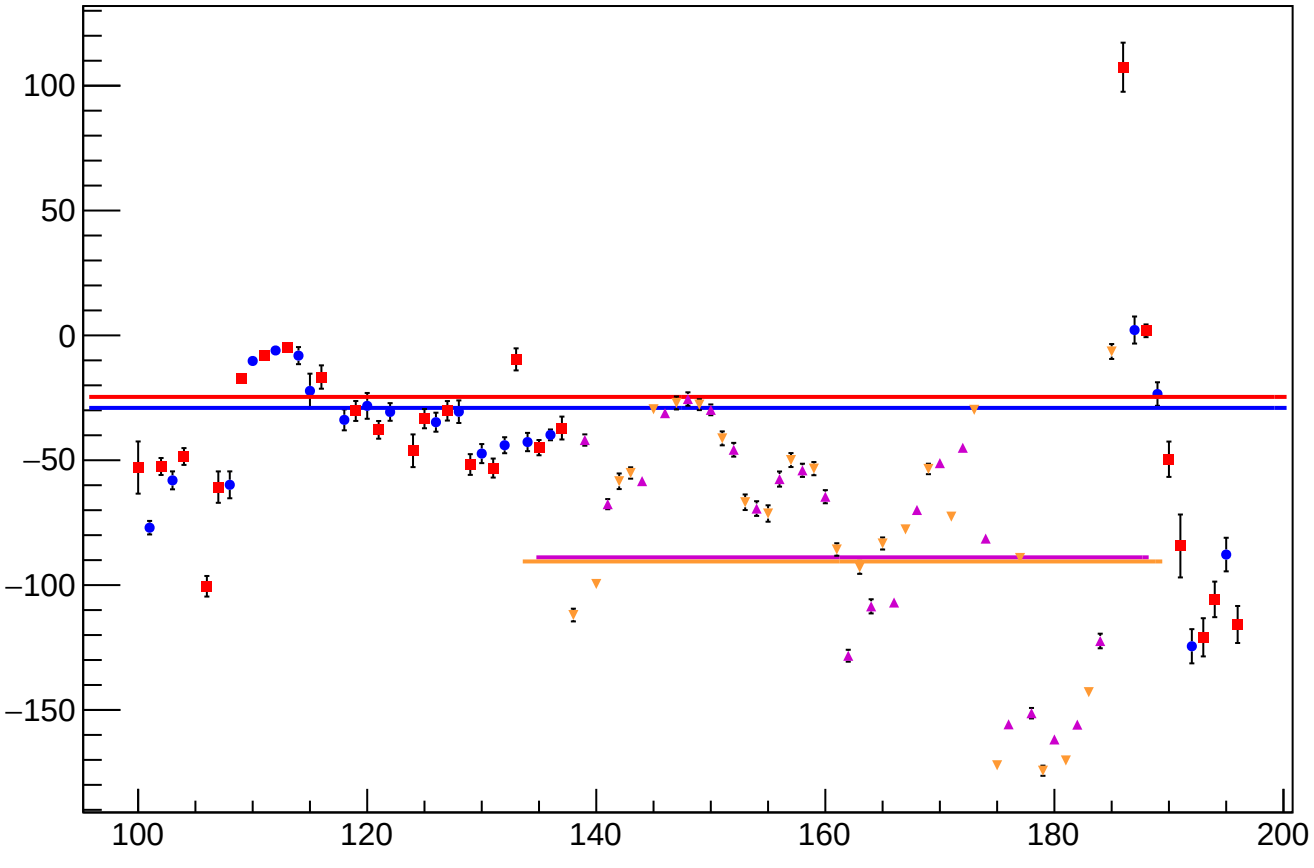
Left: 0.190+/-0.005 $\chi^2$/NDF: 1584.4/47

Right: -0.431+/-0.021 $\chi^2$/NDF: 1883.7/45

In: 0.166+/-0.007 $\chi^2$/NDF:1905.7/42

Out: 0.155+/-0.006 $\chi^2$/NDF:2391.6/50

All: 0.160+/-0.005 $\chi^2$/NDF: 4298.7/93




Right In: -29.037+/-0.705 $\chi^2$/NDF: 1201.9/19

Left Out: -90.534+/-0.421 $\chi^2$/NDF:15358.6/24

Right Out: -24.636+/-0.630 $\chi^2$/NDF: 1752.0/25

Left In: -88.888+/-0.435 $\chi^2$/NDF:11815.7/22

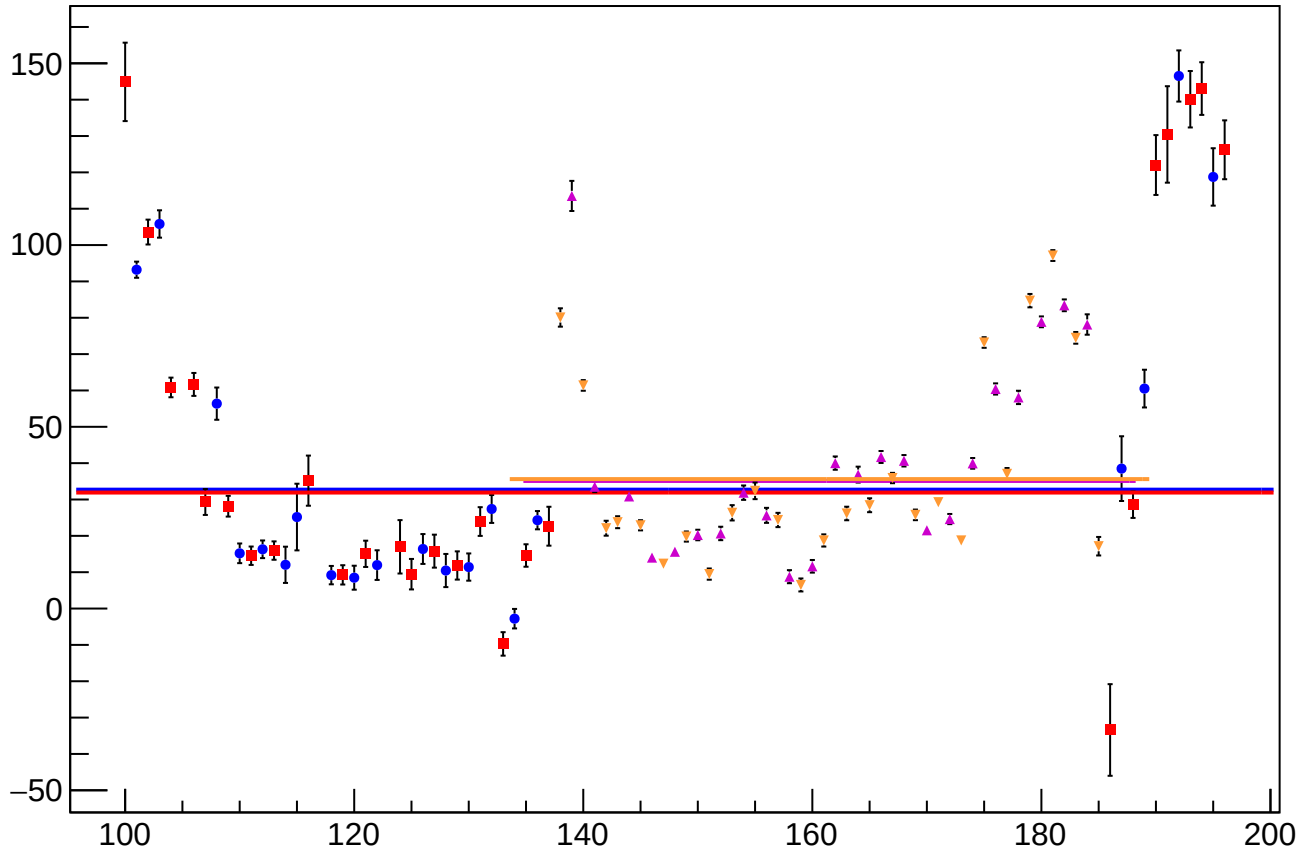
Left: -89.736+/-0.302 $\chi^2$/NDF: 27181.7/47

Right: -26.589+/-0.470 $\chi^2$/NDF: 2975.5/45

In: -72.414+/-0.370 $\chi^2$/NDF:18240.1/42

Out: -70.163+/-0.350 $\chi^2$/NDF:24674.3/50

All: -71.227+/-0.254 $\chi^2$/NDF: 42933.9/93




Right In: 32.708+/-0.785 $\chi^2$/NDF: 2089.6/19

Left Out: 35.612+/-0.326 $\chi^2$/NDF:5973.0/24

Right Out: 31.914+/-0.761 $\chi^2$/NDF: 1980.4/25

Left In: 35.112+/-0.336 $\chi^2$/NDF:4144.4/22

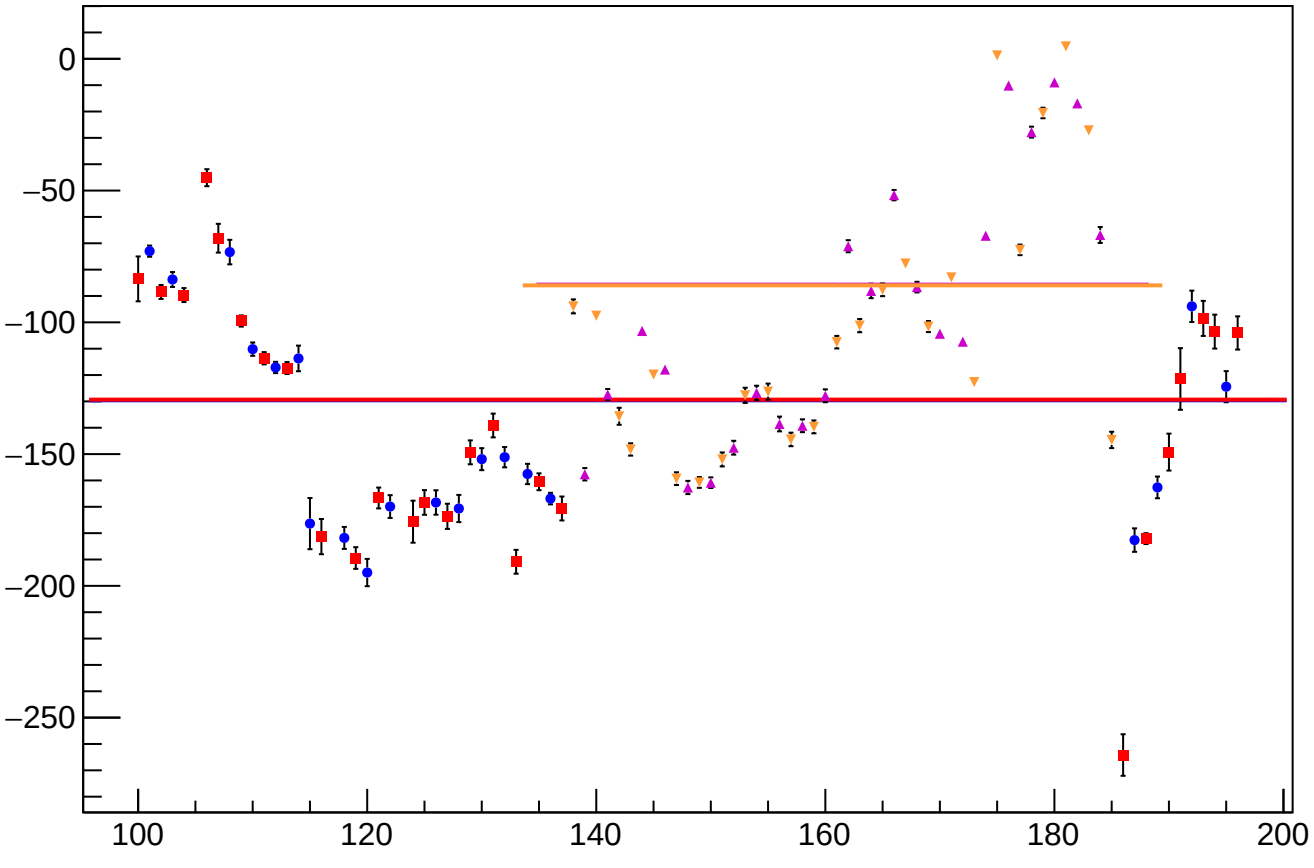
Left: 35.370+/-0.234 $\chi^2$/NDF: 10118.6/47

Right: 32.298+/-0.547 $\chi^2$/NDF: 4070.5/45

In: 34.739+/-0.309 $\chi^2$/NDF:6241.9/42

Out: 35.039+/-0.299 $\chi^2$/NDF:7973.4/50

All: 34.894+/-0.215 $\chi^2$/NDF: 14215.8/93




Right In: -129.581+/-0.786 $\chi^2$/NDF: 2429.6/19

Left Out: -85.969+/-0.421 $\chi^2$/NDF:16232.5/24

Right Out: -129.333+/-0.721 $\chi^2$/NDF: 3513.0/25

Left In: -85.705+/-0.432 $\chi^2$/NDF:13758.7/22

Left: -85.841+/-0.302 $\chi^2$/NDF: 29991.4/47

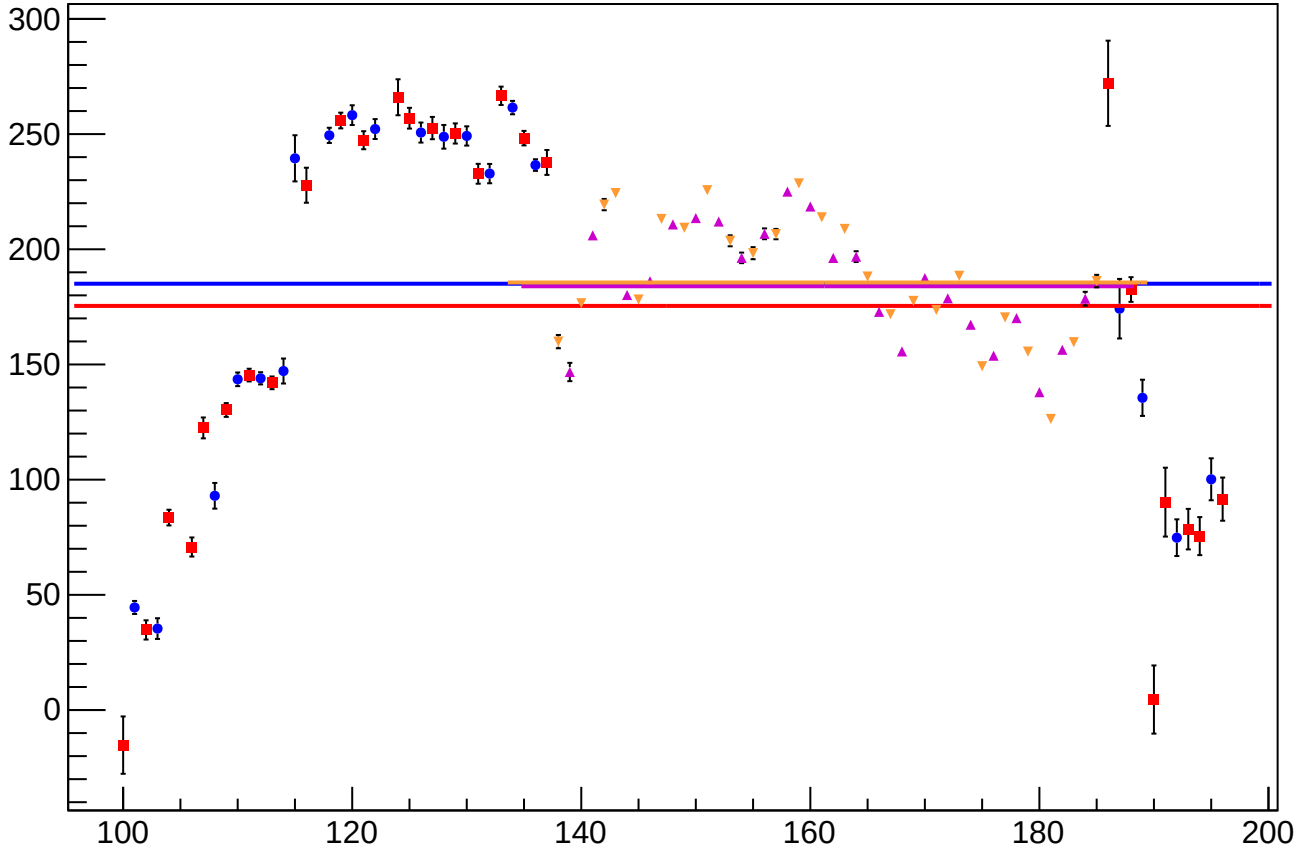
Right: -129.446+/-0.531 $\chi^2$/NDF: 5942.7/45

In: -95.909+/-0.379 $\chi^2$/NDF:18581.9/42

Out: -96.982+/-0.363 $\chi^2$/NDF:22442.4/50

All: -96.468+/-0.262 $\chi^2$/NDF: 41028.5/93

reg_asym_sam4_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 185.050+/-0.899 $\chi^2$/NDF: 7448.5/19

Left Out: 185.583+/-0.367 $\chi^2$/NDF:5354.7/24

Right Out: 175.422+/-0.878 $\chi^2$/NDF: 7226.8/25

Left In: 183.940+/-0.378 $\chi^2$/NDF:3873.5/22

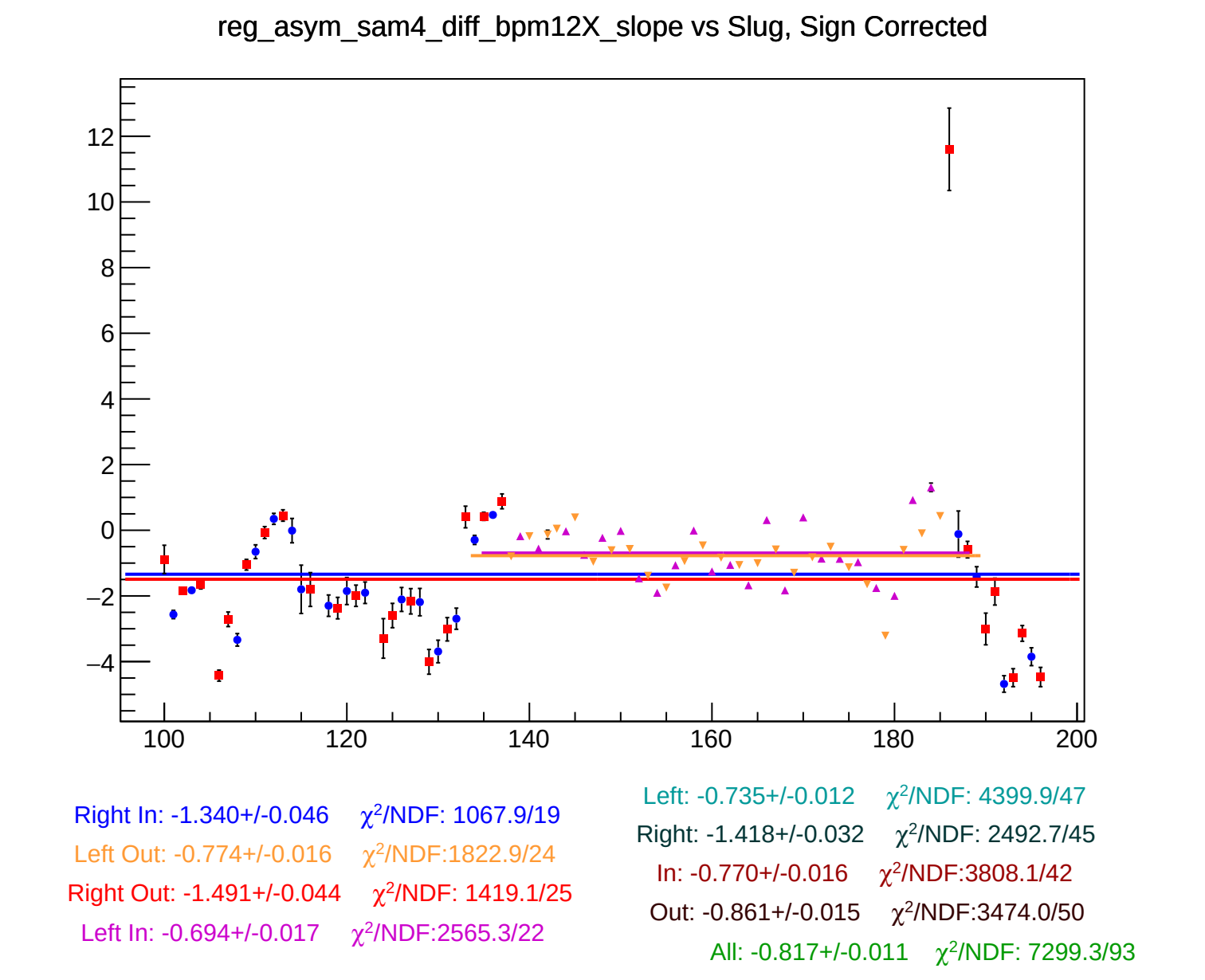
Left: 184.786+/-0.263 $\chi^2$/NDF: 9238.0/47

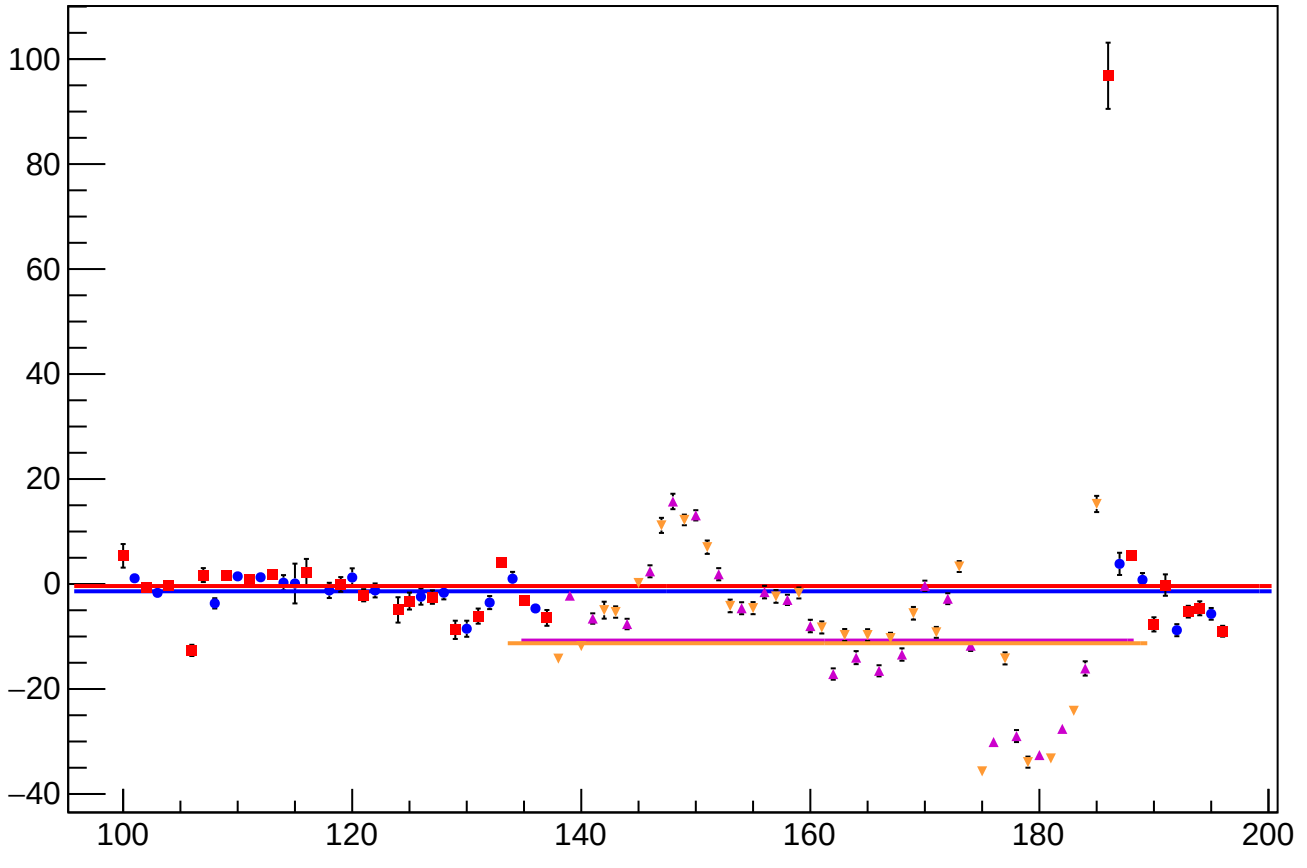
Right: 180.118+/-0.628 $\chi^2$/NDF: 14734.0/45

In: 184.106+/-0.348 $\chi^2$/NDF:11323.3/42

Out: 184.072+/-0.338 $\chi^2$/NDF:12695.6/50

All: 184.089+/-0.243 $\chi^2$/NDF: 24018.9/93


reg_asym_sam4_diff_bpm12X_slope vs Slug, Sign Corrected
12
10
8
6
4
2
0
−2
−4
100
120
140
160
180
200
Right In: -1.340+/-0.046 χ²/NDF: 1067.9/19
Left Out: -0.774+/-0.016 χ²/NDF:1822.9/24
Right Out: -1.491+/-0.044 χ²/NDF: 1419.1/25
Left In: -0.694+/-0.017 χ²/NDF:2565.3/22
Left: -0.735+/-0.012 χ²/NDF: 4399.9/47
Right: -1.418+/-0.032 χ²/NDF: 2492.7/45
In: -0.770+/-0.016 χ²/NDF:3808.1/42
Out: -0.861+/-0.015 χ²/NDF:3474.0/50
All: -0.817+/-0.011 χ²/NDF: 7299.3/93




Right In: -1.387+/-0.236 $\chi^2$/NDF: 171.2/19

Left Out: -11.283+/-0.208 $\chi^2$/NDF:4500.3/24

Right Out: -0.385+/-0.197 $\chi^2$/NDF: 737.3/25

Left In: -10.776+/-0.213 $\chi^2$/NDF:3699.2/22

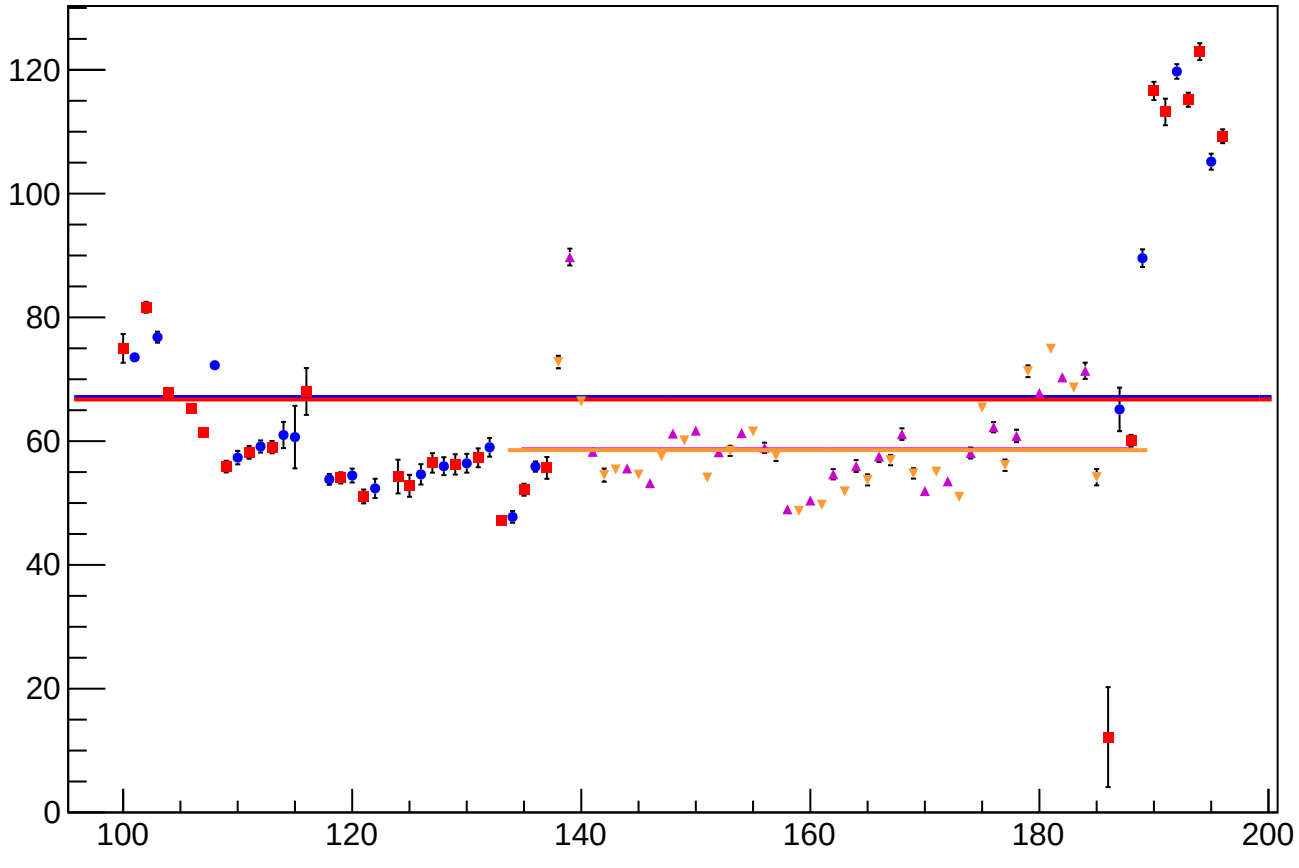
Left: -11.036+/-0.149 $\chi^2$/NDF: 8202.4/47

Right: -0.797+/-0.151 $\chi^2$/NDF: 919.1/45

In: -6.551+/-0.158 $\chi^2$/NDF:4741.6/42

Out: -5.544+/-0.143 $\chi^2$/NDF:6683.8/50

All: -5.997+/-0.106 $\chi^2$/NDF: 11447.8/93




Right In: 67.128+/-0.249 $\chi^2$/NDF: 4765.8/19

Left Out: 58.550+/-0.161 $\chi^2$/NDF:1902.5/24

Right Out: 66.735+/-0.219 $\chi^2$/NDF: 9068.1/25

Left In: 58.679+/-0.168 $\chi^2$/NDF:1613.4/22

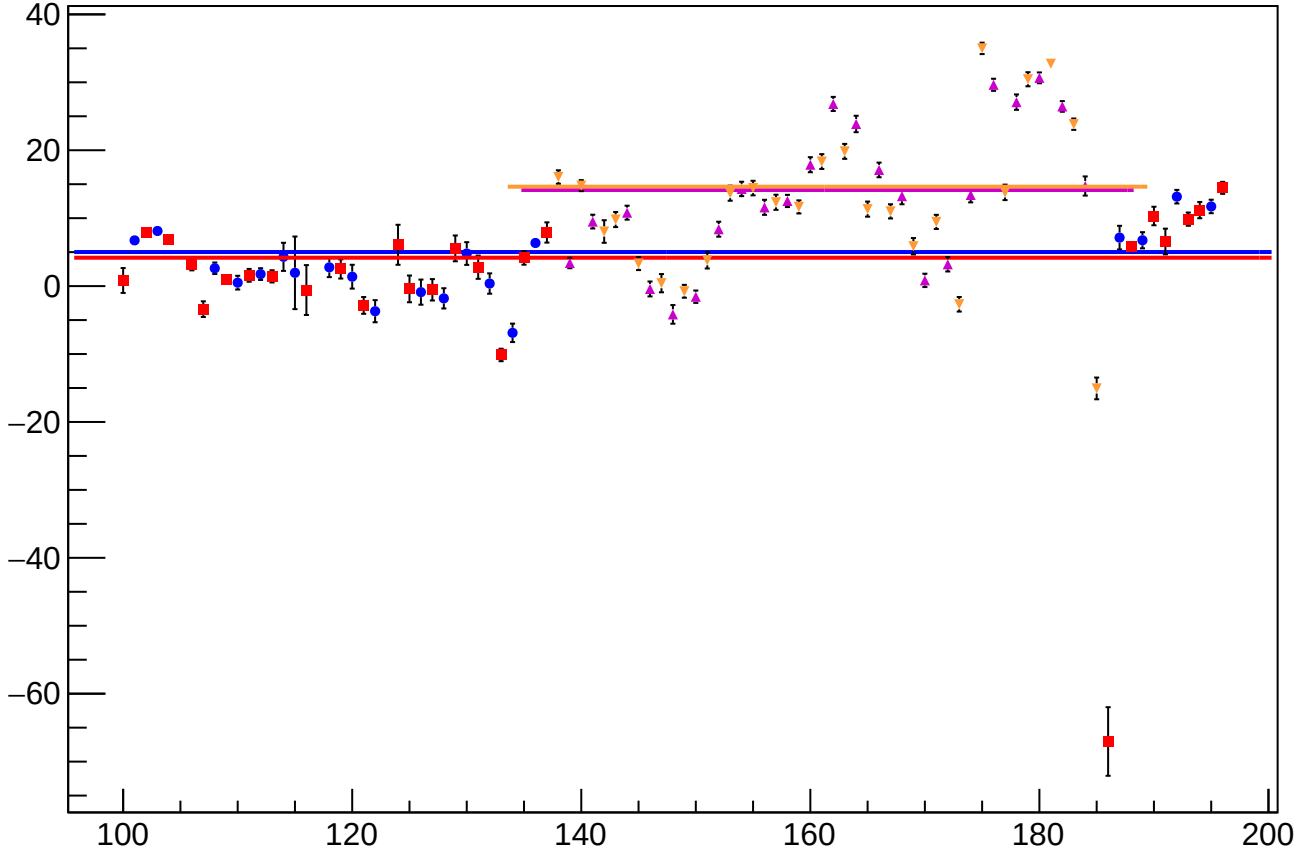
Left: 58.612+/-0.116 $\chi^2$/NDF: 3516.3/47

Right: 66.907+/-0.165 $\chi^2$/NDF: 13835.3/45

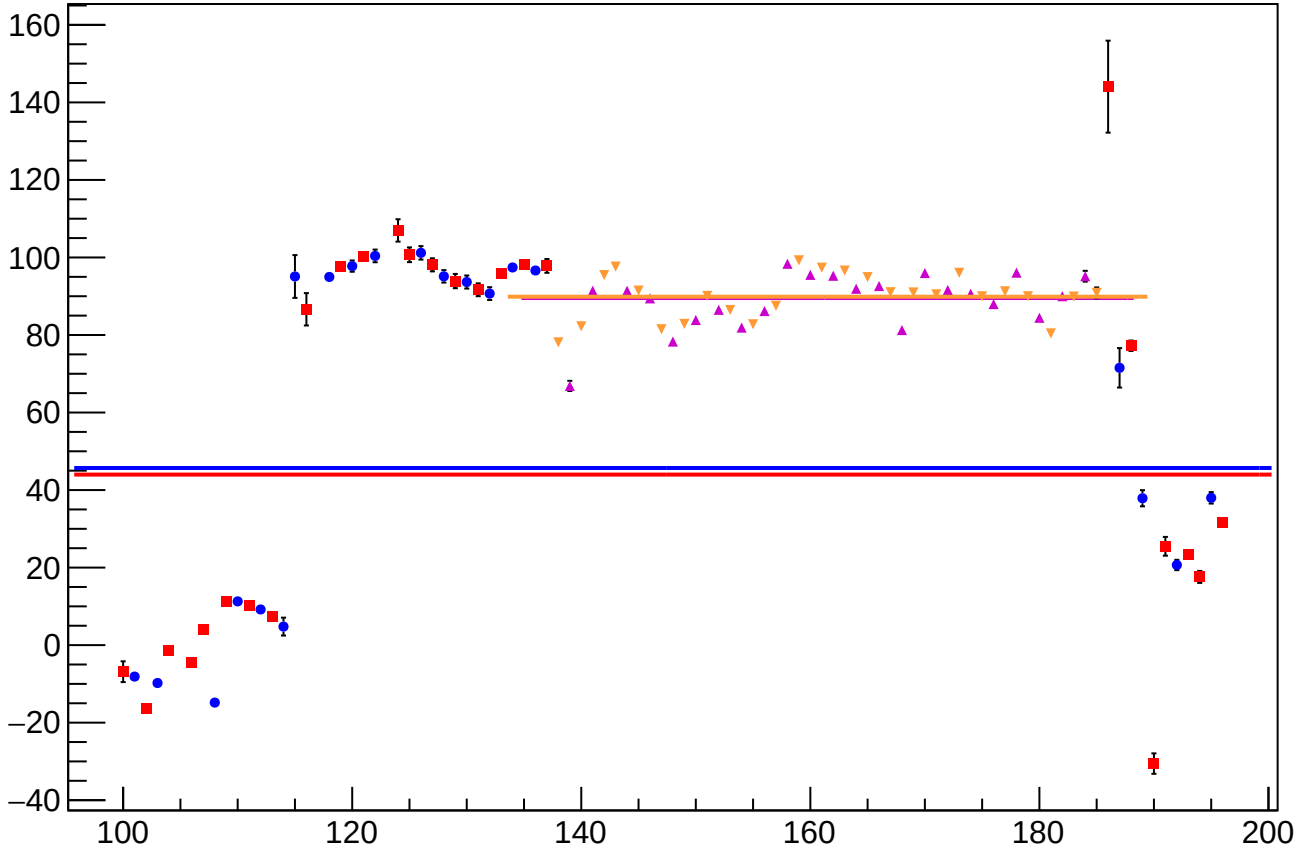
In: 61.326+/-0.140 $\chi^2$/NDF:7168.1/42

Out: 61.420+/-0.130 $\chi^2$/NDF:11875.0/50

All: 61.376+/-0.095 $\chi^2$/NDF: 19043.3/93


reg_asym_sam5_diff_bpm4eX_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
100
120
140
160
180
200
Right In: 5.015+/-0.241 χ²/NDF: 344.2/19
Left Out: 14.634+/-0.207 χ²/NDF:2962.1/24
Right Out: 4.180+/-0.203 χ²/NDF: 867.8/25
Left In: 14.146+/-0.211 χ²/NDF:2541.2/22
Left: 14.395+/-0.148 χ²/NDF: 5506.0/47
Right: 4.526+/-0.155 χ²/NDF: 1219.0/45
In: 10.173+/-0.159 χ²/NDF:3698.2/42
Out: 9.305+/-0.145 χ²/NDF:5133.9/50
All: 9.699+/-0.107 χ²/NDF: 8848.5/93

reg_asym_sam5_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 45.698+/-0.291 $\chi^2$/NDF: 27337.8/19

Left Out: 89.875+/-0.181 $\chi^2$/NDF:1065.4/24

Right Out: 43.989+/-0.259 $\chi^2$/NDF: 31132.1/25

Left In: 89.541+/-0.188 $\chi^2$/NDF:1095.3/22

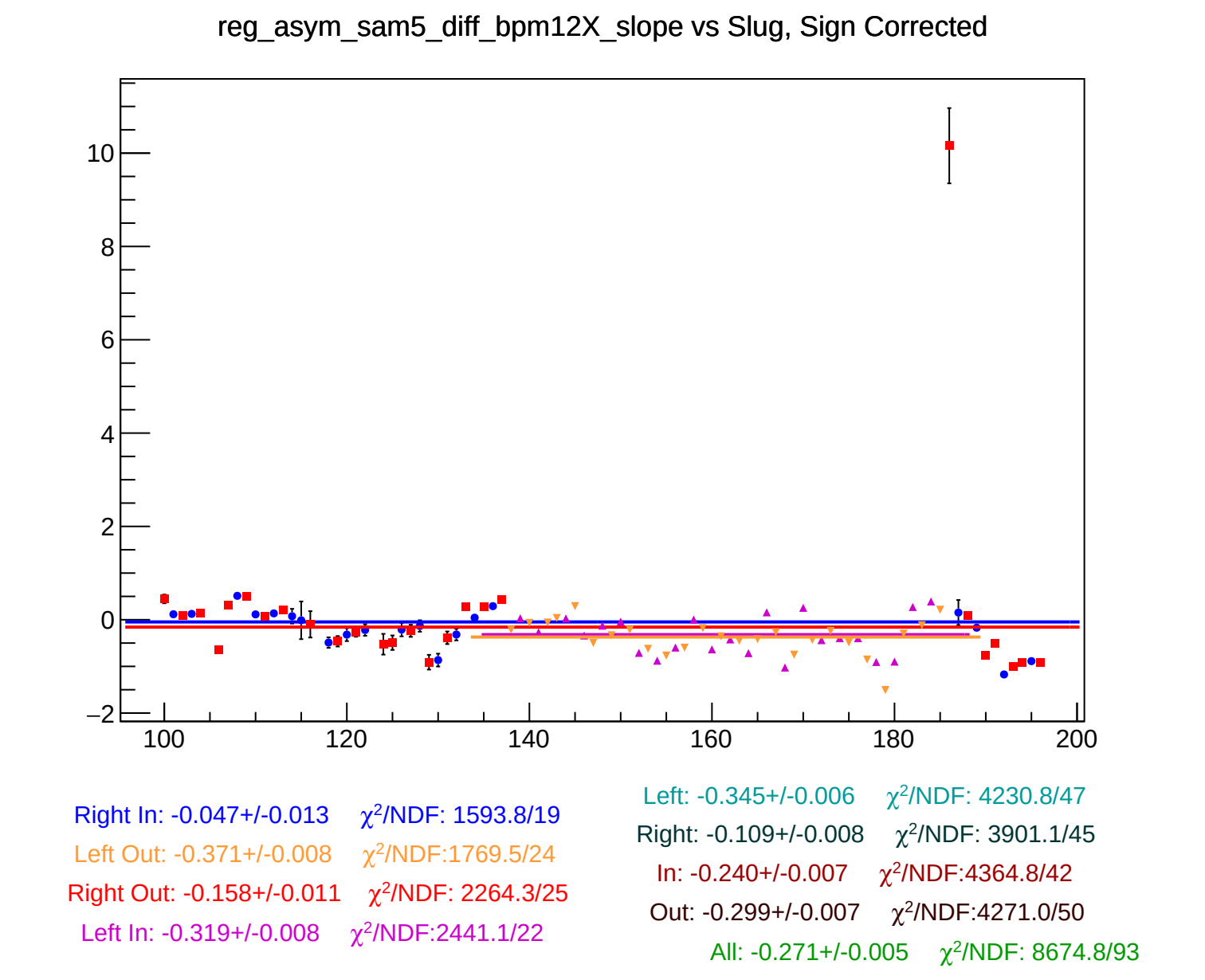
Left: 89.714+/-0.130 $\chi^2$/NDF: 2162.3/47

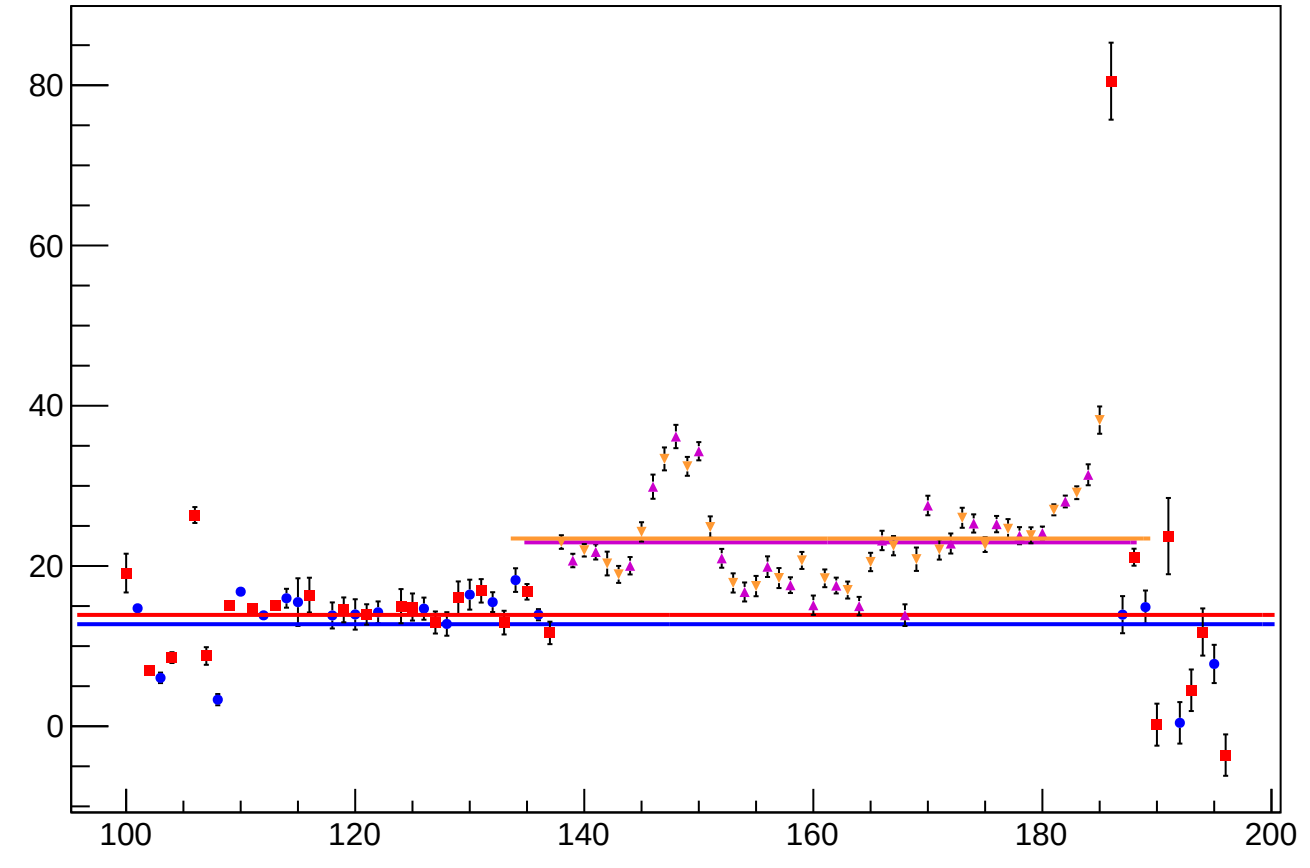
Right: 44.746+/-0.194 $\chi^2$/NDF: 58489.1/45

In: 76.662+/-0.158 $\chi^2$/NDF:44489.8/42

Out: 74.846+/-0.148 $\chi^2$/NDF:53242.1/50

All: 75.700+/-0.108 $\chi^2$/NDF: 97802.2/93


reg_asym_sam5_diff_bpm12X_slope vs Slug, Sign Corrected
10
8
6
4
2
0
−2
100
120
140
160
180
200
Right In: -0.047+/-0.013 χ²/NDF: 1593.8/19
Left Out: -0.371+/-0.008 χ²/NDF:1769.5/24
Right Out: -0.158+/-0.011 χ²/NDF: 2264.3/25
Left In: -0.319+/-0.008 χ²/NDF:2441.1/22
Left: -0.345+/-0.006 χ²/NDF: 4230.8/47
Right: -0.109+/-0.008 χ²/NDF: 3901.1/45
In: -0.240+/-0.007 χ²/NDF:4364.8/42
Out: -0.299+/-0.007 χ²/NDF:4271.0/50
All: -0.271+/-0.005 χ²/NDF: 8674.8/93




Right In: 12.736+/-0.210 $\chi^2$/NDF: 416.4/19

Left Out: 23.431+/-0.216 $\chi^2$/NDF:427.8/24

Right Out: 13.895+/-0.198 $\chi^2$/NDF: 733.9/25

Left In: 22.949+/-0.225 $\chi^2$/NDF:565.2/22

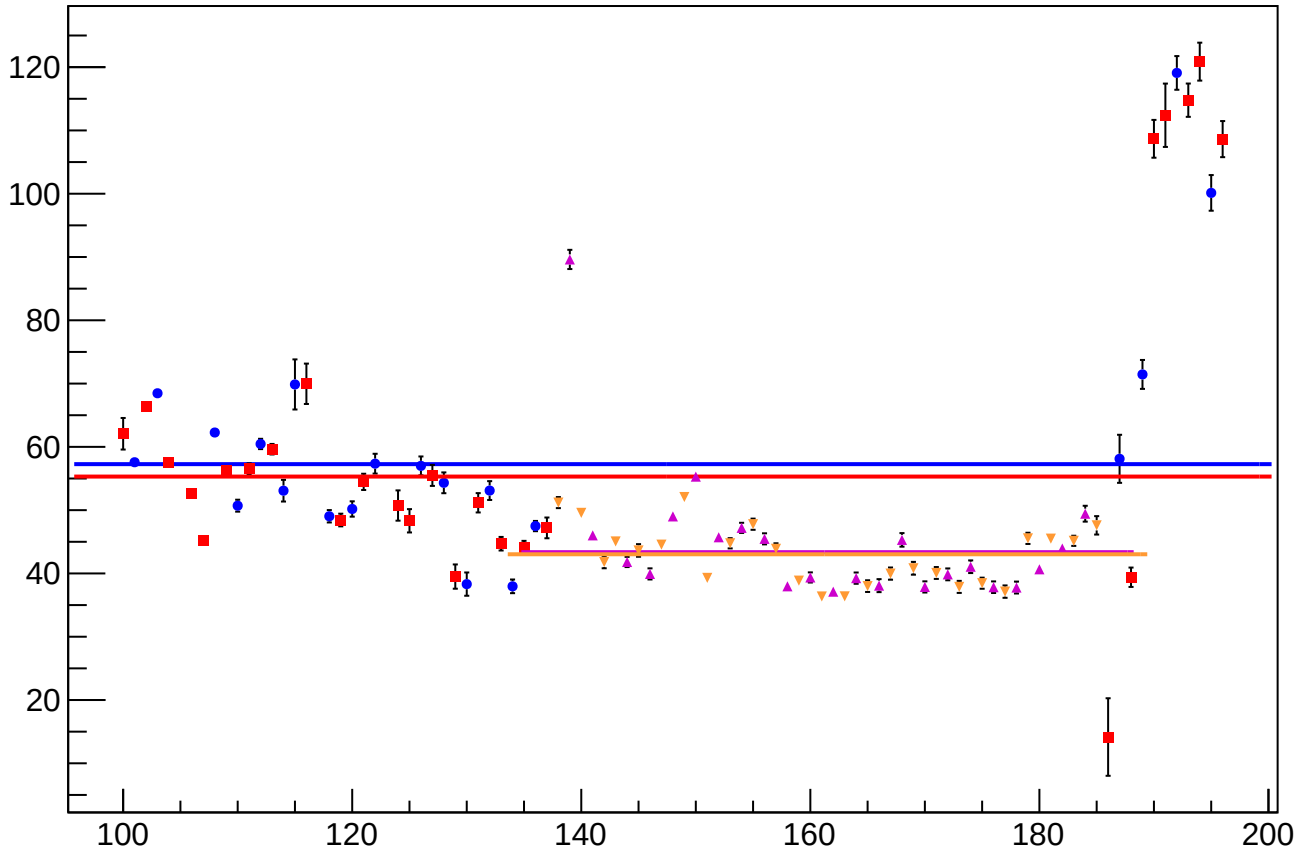
Left: 23.201+/-0.156 $\chi^2$/NDF: 995.5/47

Right: 13.351+/-0.144 $\chi^2$/NDF: 1166.4/45

In: 17.494+/-0.154 $\chi^2$/NDF:2078.4/42

Out: 18.250+/-0.146 $\chi^2$/NDF:2222.3/50

All: 17.892+/-0.106 $\chi^2$/NDF: 4313.4/93




Right In: 57.270+/-0.219 $\chi^2$/NDF: 1911.6/19

Left Out: 43.029+/-0.167 $\chi^2$/NDF:780.7/24

Right Out: 55.306+/-0.219 $\chi^2$/NDF: 2973.6/25

Left In: 43.361+/-0.177 $\chi^2$/NDF:1683.3/22

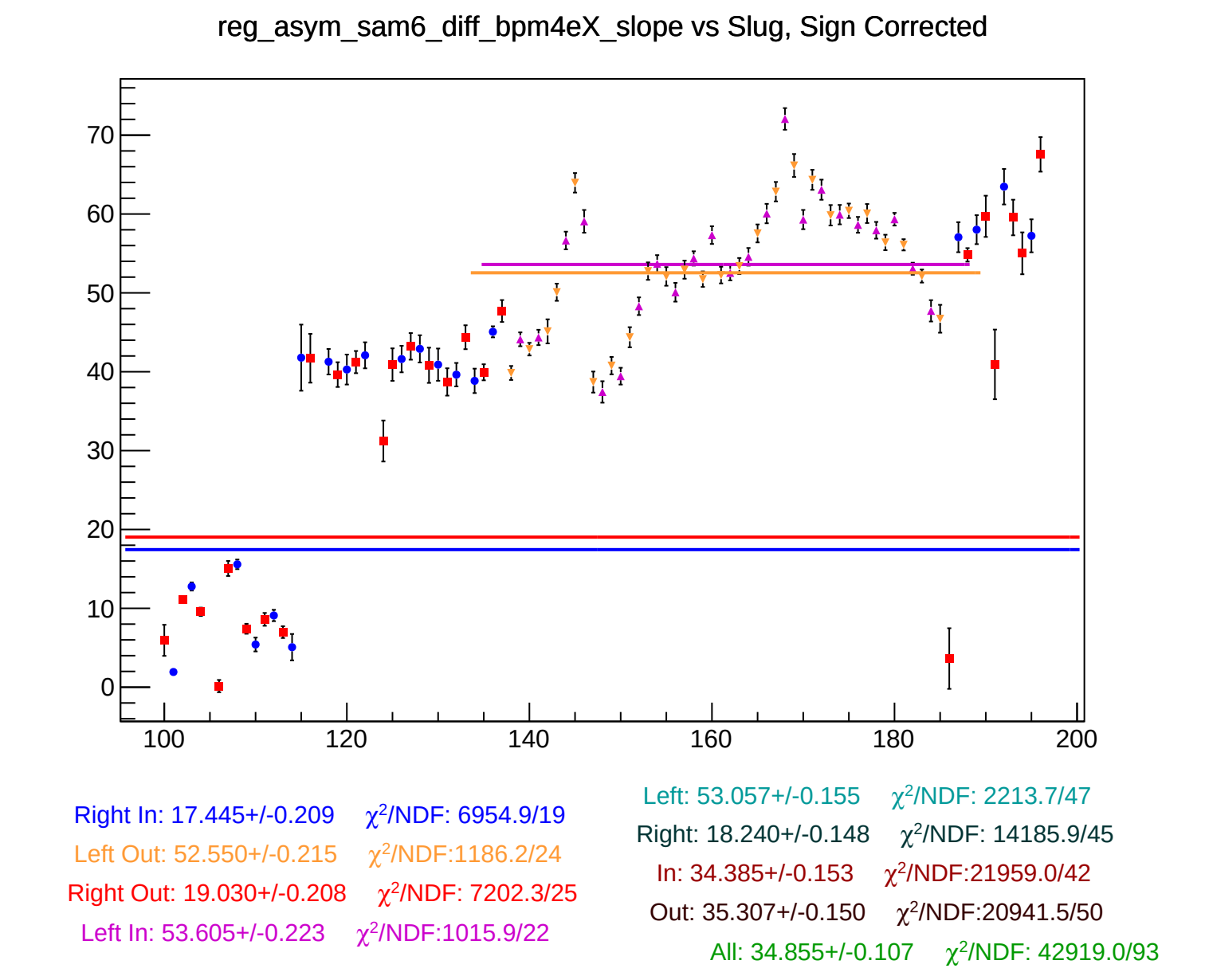
Left: 43.186+/-0.122 $\chi^2$/NDF: 2465.8/47

Right: 56.289+/-0.155 $\chi^2$/NDF: 4925.4/45

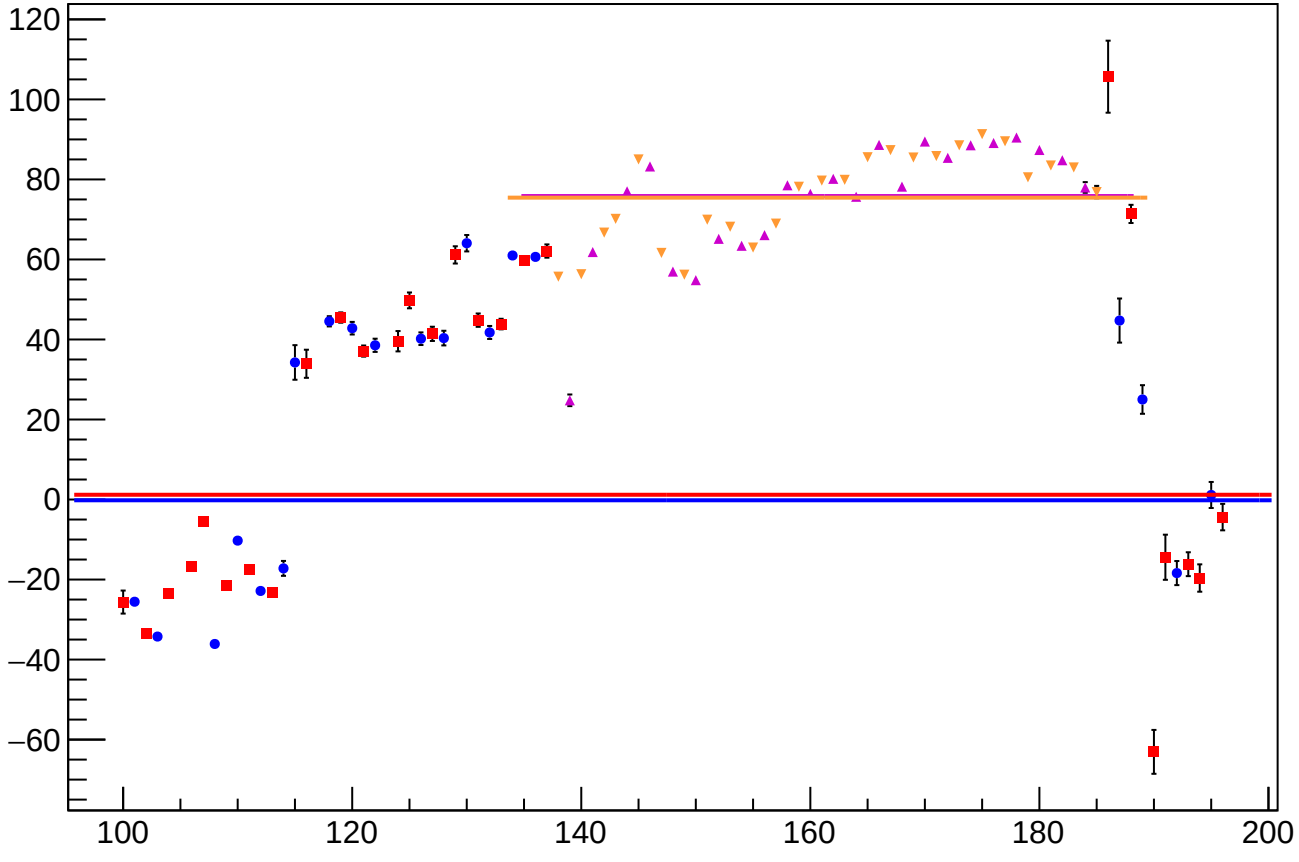
In: 48.859+/-0.138 $\chi^2$/NDF:6034.1/42

Out: 47.549+/-0.133 $\chi^2$/NDF:5737.2/50

All: 48.181+/-0.096 $\chi^2$/NDF: 11818.1/93


reg_asym_sam6_diff_bpm4eX_slope vs Slug, Sign Corrected
70
60
50
40
30
20
10
0
100
120
140
160
180
200
Right In: 17.445+/-0.209 χ²/NDF: 6954.9/19
Left Out: 52.550+/-0.215 χ²/NDF:1186.2/24
Right Out: 19.030+/-0.208 χ²/NDF: 7202.3/25
Left In: 53.605+/-0.223 χ²/NDF:1015.9/22
Left: 53.057+/-0.155 χ²/NDF: 2213.7/47
Right: 18.240+/-0.148 χ²/NDF: 14185.9/45
In: 34.385+/-0.153 χ²/NDF:21959.0/42
Out: 35.307+/-0.150 χ²/NDF:20941.5/50
All: 34.855+/-0.107 χ²/NDF: 42919.0/93

# reg_asym_sam6_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -0.189+/-0.259 $\chi^2$/NDF: 21183.7/19

Left Out: 75.448+/-0.188 $\chi^2$/NDF:3469.1/24

Right Out: 1.191+/-0.259 $\chi^2$/NDF: 17341.3/25

Left In: 75.844+/-0.197 $\chi^2$/NDF:4265.6/22

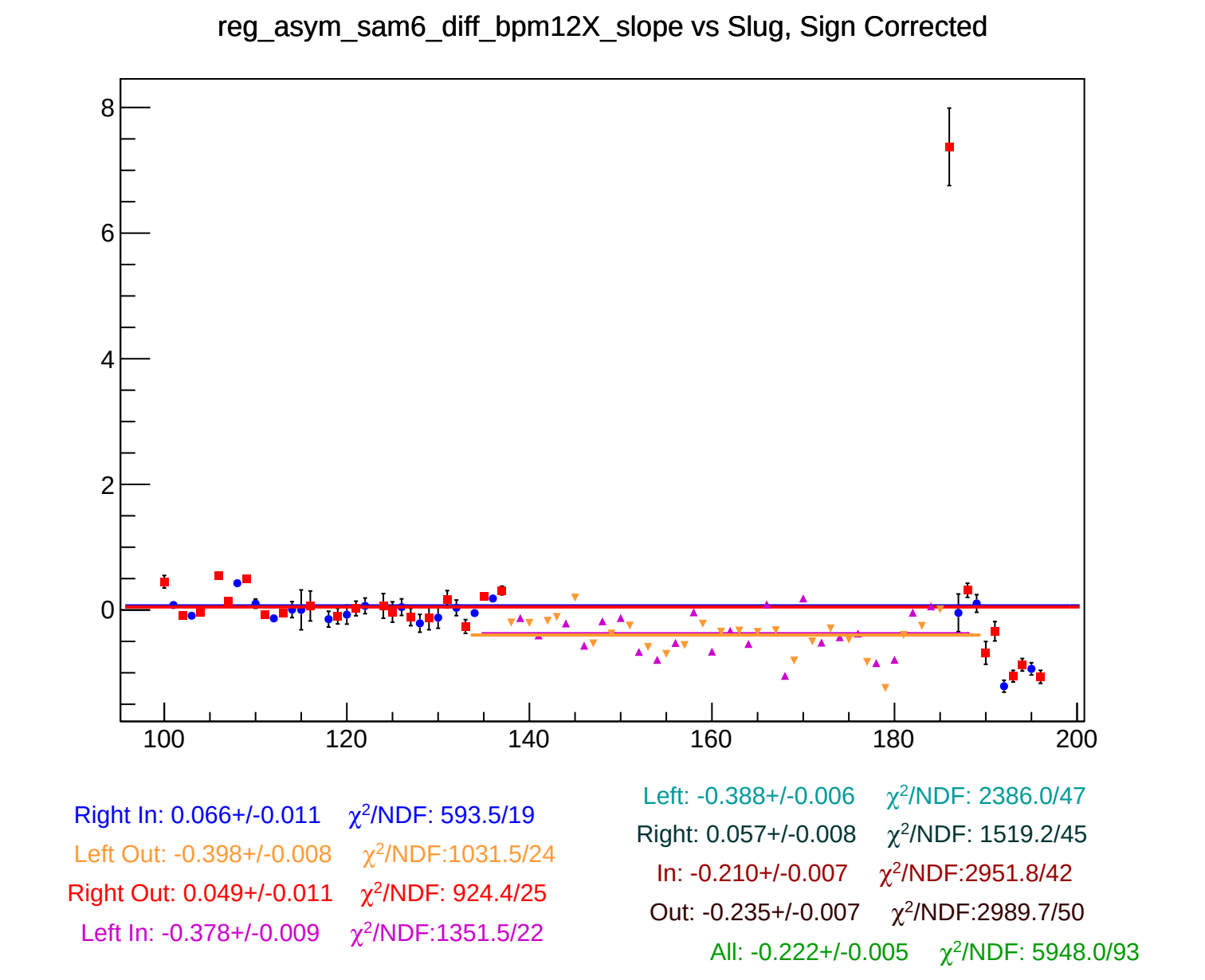
Left: 75.637+/-0.136 $\chi^2$/NDF: 7736.7/47

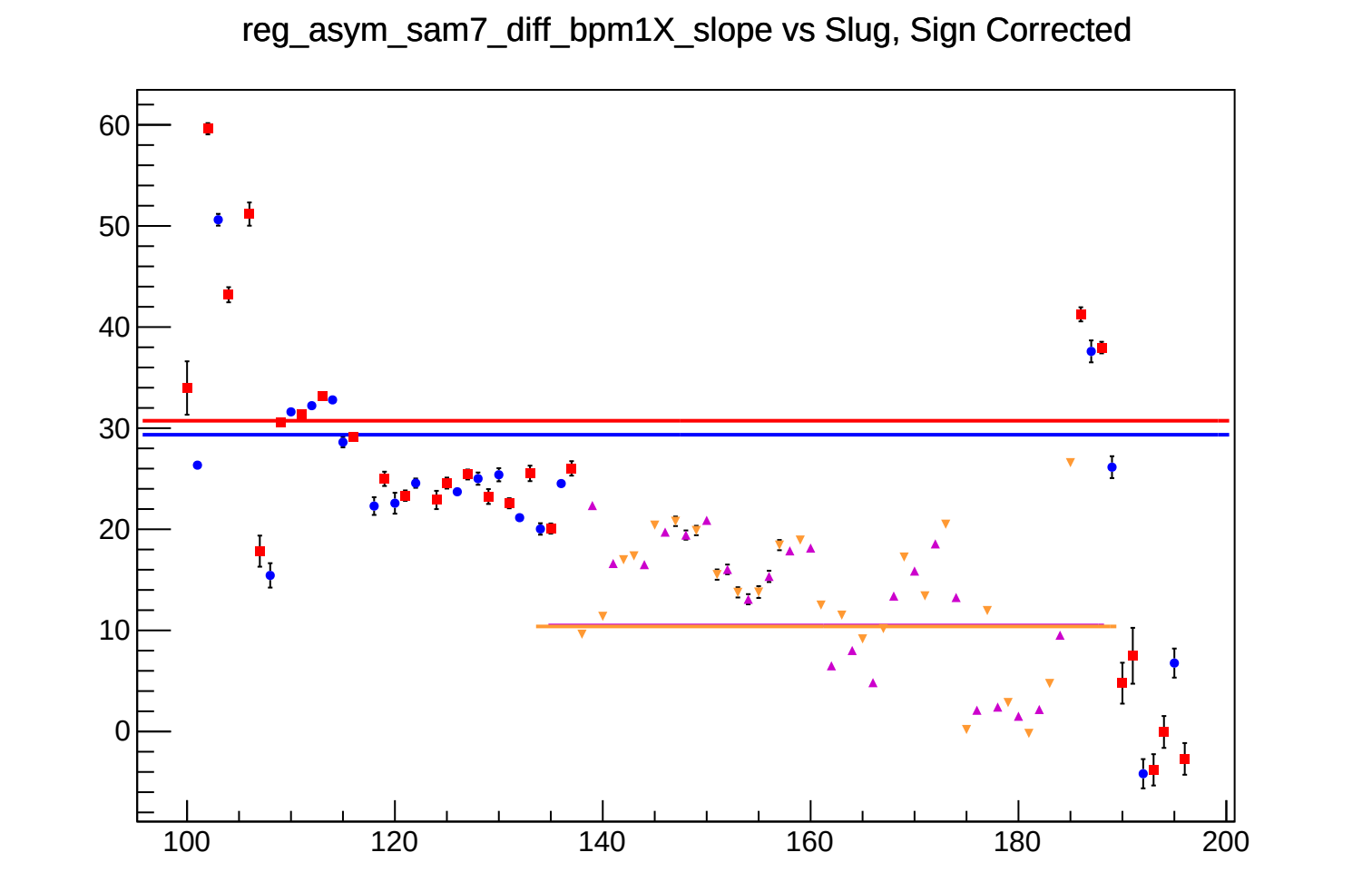
Right: 0.501+/-0.183 $\chi^2$/NDF: 38539.3/45

In: 47.880+/-0.157 $\chi^2$/NDF:80092.4/42

Out: 49.714+/-0.152 $\chi^2$/NDF:74681.0/50

All: 48.824+/-0.109 $\chi^2$/NDF: 154843.8/93


reg_asym_sam6_diff_bpm12X_slope vs Slug, Sign Corrected
8
6
4
2
0
100
120
140
160
180
200
Right In: 0.066+/-0.011 χ²/NDF: 593.5/19
Left Out: -0.398+/-0.008 χ²/NDF:1031.5/24
Right Out: 0.049+/-0.011 χ²/NDF: 924.4/25
Left In: -0.378+/-0.009 χ²/NDF:1351.5/22
Left: -0.388+/-0.006 χ²/NDF: 2386.0/47
Right: 0.057+/-0.008 χ²/NDF: 1519.2/45
In: -0.210+/-0.007 χ²/NDF:2951.8/42
Out: -0.235+/-0.007 χ²/NDF:2989.7/50
All: -0.222+/-0.005 χ²/NDF: 5948.0/93




Right In: 29.350+/-0.091 $\chi^2$/NDF: 4227.8/19

Left Out: 10.390+/-0.064 $\chi^2$/NDF:13792.8/24

Right Out: 30.734+/-0.078 $\chi^2$/NDF: 7036.1/25

Left In: 10.488+/-0.067 $\chi^2$/NDF:11498.1/22

Left: 10.437+/-0.046 $\chi^2$/NDF: 25292.1/47

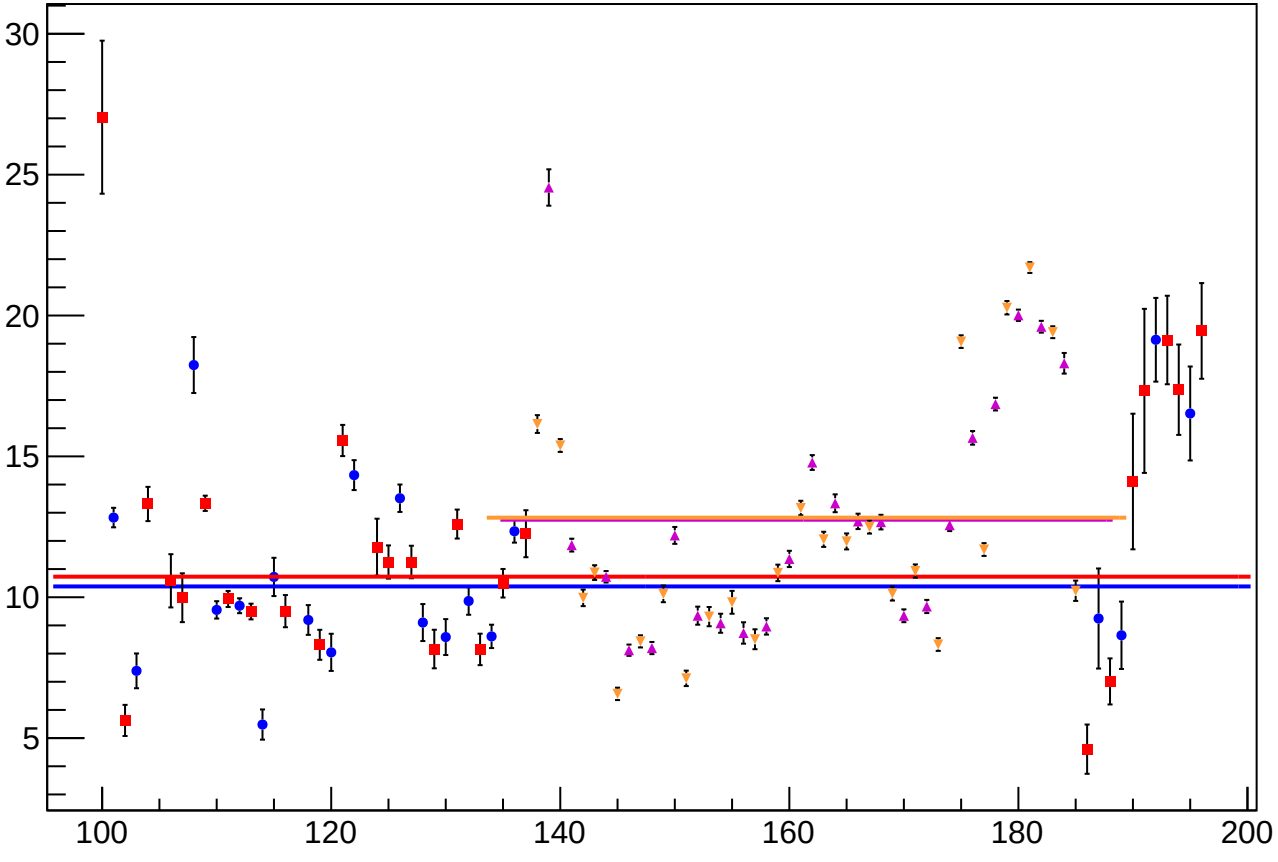
Right: 30.143+/-0.059 $\chi^2$/NDF: 11396.8/45

In: 17.097+/-0.054 $\chi^2$/NDF:43674.2/42

Out: 18.535+/-0.050 $\chi^2$/NDF:61127.6/50

All: 17.874+/-0.036 $\chi^2$/NDF: 105187.6/93

# reg_asym_sam7_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 10.383+/-0.113 $\chi^2$/NDF: 453.7/19

Left Out: 12.825+/-0.051 $\chi^2$/NDF:8016.5/24

Right Out: 10.730+/-0.110 $\chi^2$/NDF: 564.8/25

Left In: 12.752+/-0.053 $\chi^2$/NDF:5502.5/22

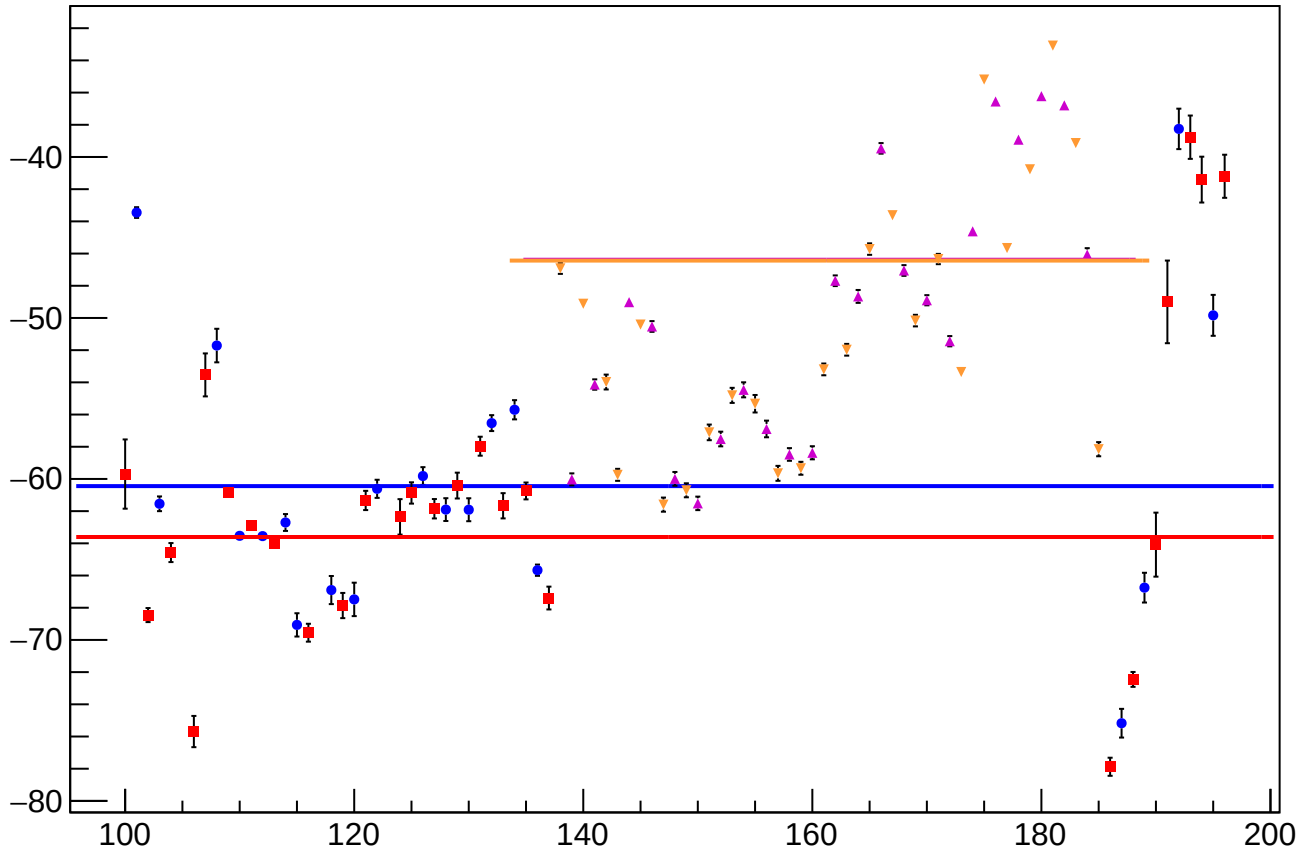
Left: 12.790+/-0.037 $\chi^2$/NDF: 13520.0/47

Right: 10.561+/-0.079 $\chi^2$/NDF: 1023.4/45

In: 12.324+/-0.048 $\chi^2$/NDF:6318.5/42

Out: 12.453+/-0.046 $\chi^2$/NDF:8879.8/50

All: 12.391+/-0.033 $\chi^2$/NDF: 15202.1/93




Right In: -60.445+/-0.110 $\chi^2$/NDF: 4298.9/19

Left Out: -46.435+/-0.064 $\chi^2$/NDF:18170.4/24

Right Out: -63.606+/-0.102 $\chi^2$/NDF: 2778.7/25

Left In: -46.383+/-0.067 $\chi^2$/NDF:15080.6/22

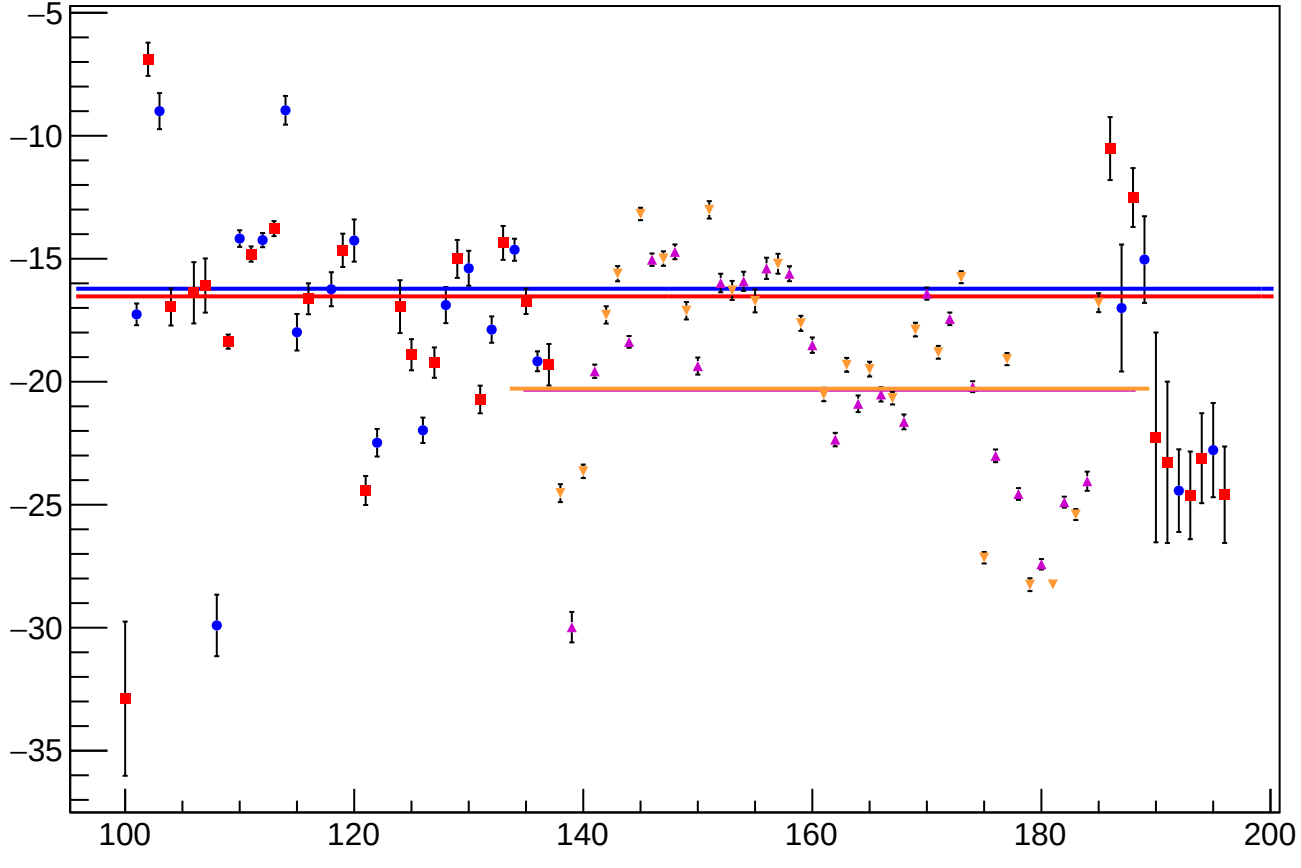
Left: -46.410+/-0.046 $\chi^2$/NDF: 33251.4/47

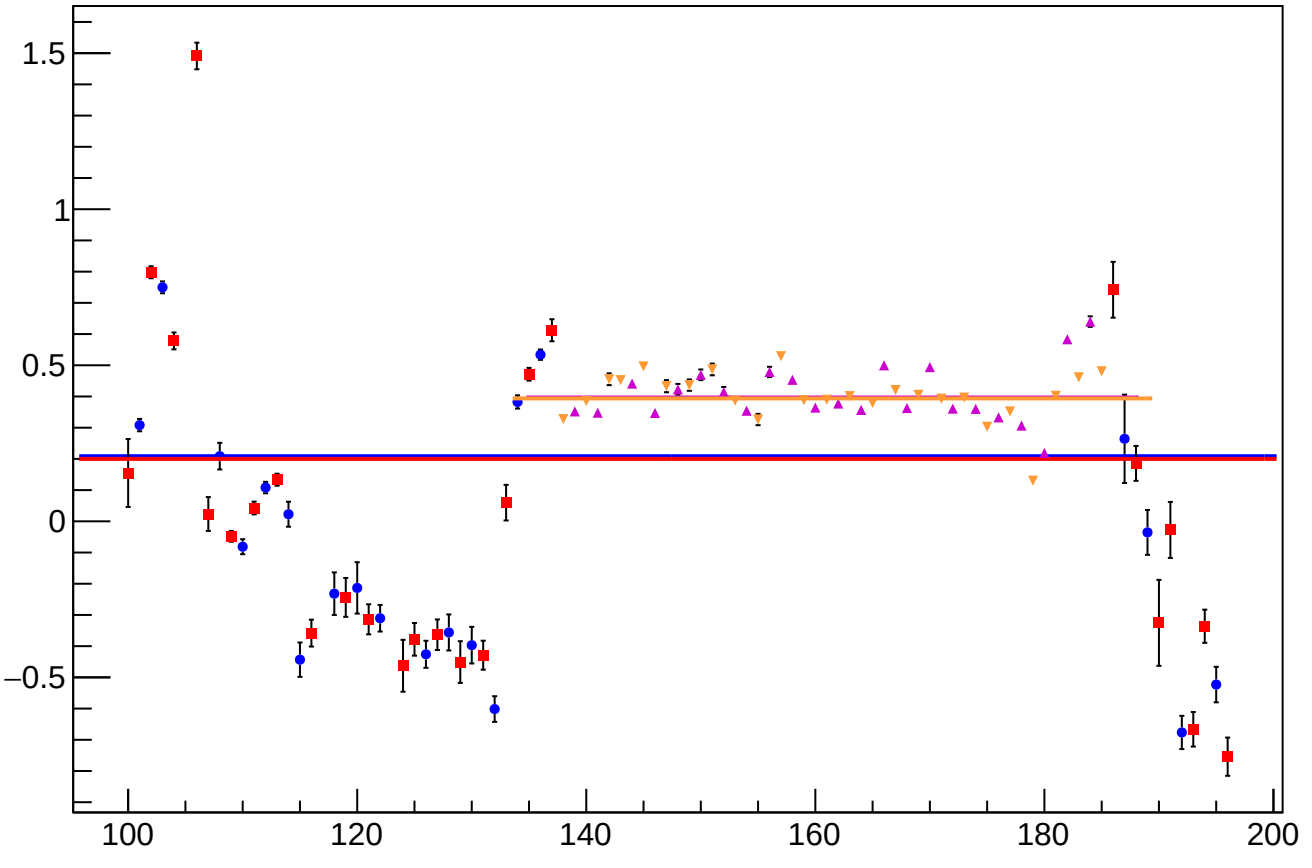
Right: -62.157+/-0.075 $\chi^2$/NDF: 7521.2/45

In: -50.149+/-0.057 $\chi^2$/NDF:31249.5/42

Out: -51.356+/-0.054 $\chi^2$/NDF:41309.8/50

All: -50.783+/-0.039 $\chi^2$/NDF: 72793.2/93


reg_asym_sam7_diff_bpm4eY_slope vs Slug, Sign Corrected
−5
−10
−15
−20
−25
−30
−35
100
120
140
160
180
200
Right In: -16.219+/-0.126 χ²/NDF: 833.5/19
Left Out: -20.281+/-0.057 χ²/NDF:7019.5/24
Right Out: -16.529+/-0.122 χ²/NDF: 774.5/25
Left In: -20.324+/-0.059 χ²/NDF:4272.7/22
Left: -20.302+/-0.041 χ²/NDF: 11292.4/47
Right: -16.378+/-0.088 χ²/NDF: 1611.1/45
In: -19.585+/-0.053 χ²/NDF:5976.0/42
Out: -19.611+/-0.052 χ²/NDF:8565.5/50
All: -19.599+/-0.037 χ²/NDF: 14541.6/93




Right In: 0.209+/-0.007 $\chi^2$/NDF: 3103.6/19

Left Out: 0.394+/-0.003 $\chi^2$/NDF:946.9/24

Right Out: 0.200+/-0.007 $\chi^2$/NDF: 4268.2/25

Left In: 0.397+/-0.003 $\chi^2$/NDF:1295.7/22

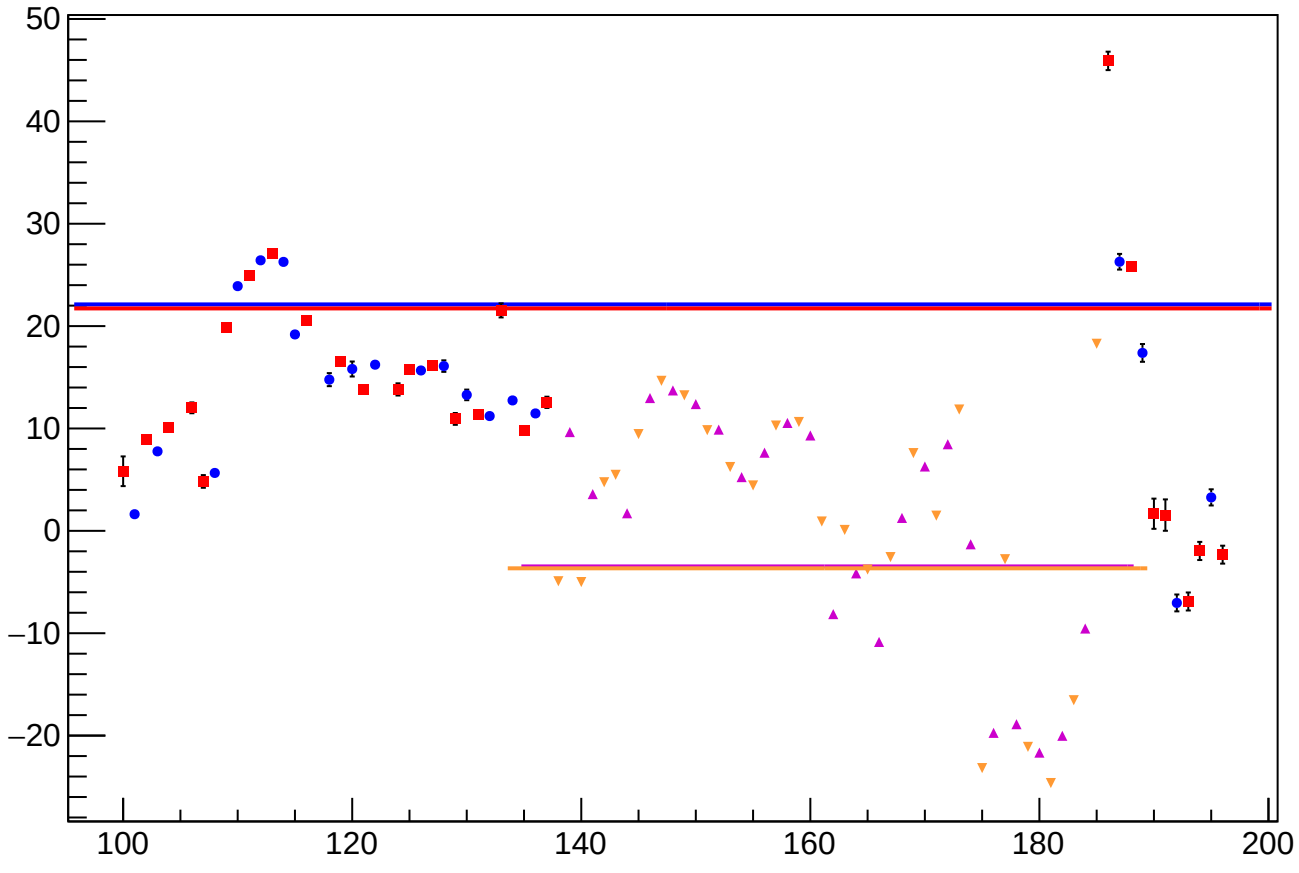
Left: 0.395+/-0.002 $\chi^2$/NDF: 2243.2/47

Right: 0.204+/-0.005 $\chi^2$/NDF: 7372.6/45

In: 0.373+/-0.002 $\chi^2$/NDF:5046.3/42

Out: 0.370+/-0.002 $\chi^2$/NDF:5921.3/50

All: 0.371+/-0.002 $\chi^2$/NDF: 10968.3/93




Right In: 22.119+/-0.056 $\chi^2$/NDF: 14234.4/19

Left Out: -3.660+/-0.055 $\chi^2$/NDF:56739.4/24

Right Out: 21.726+/-0.046 $\chi^2$/NDF: 14408.1/25

Left In: -3.475+/-0.057 $\chi^2$/NDF:45103.9/22

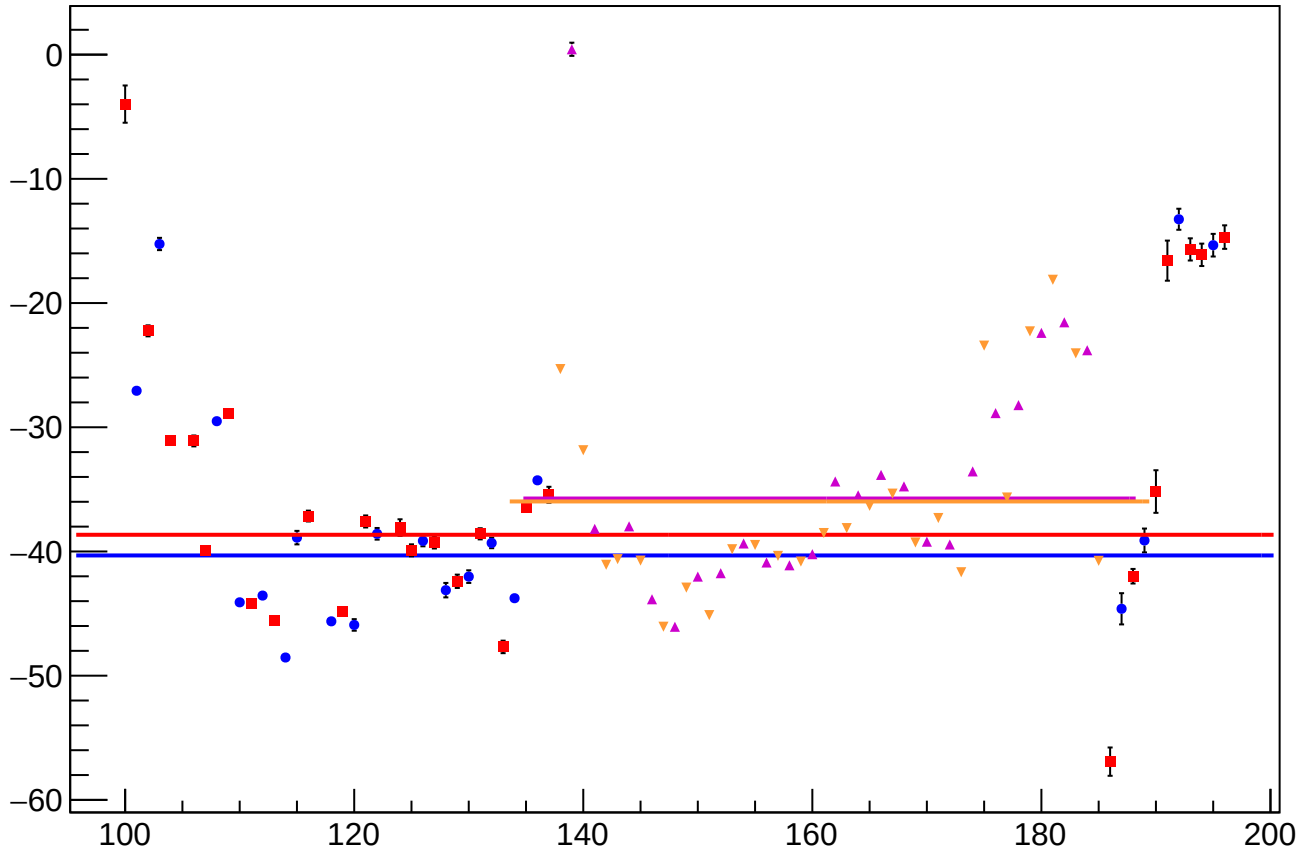
Left: -3.573+/-0.040 $\chi^2$/NDF: 101848.8/47

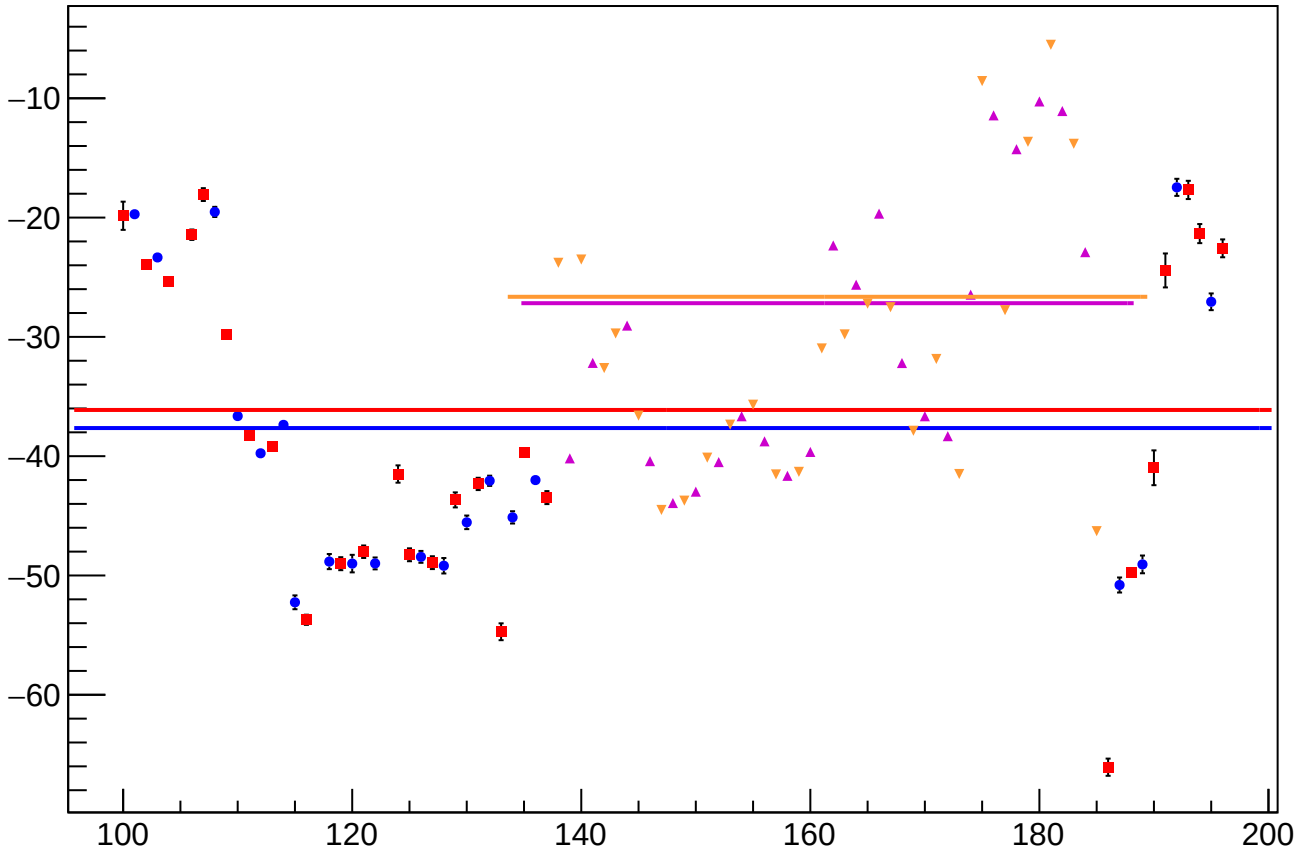
Right: 21.883+/-0.035 $\chi^2$/NDF: 28672.0/45

In: 9.638+/-0.040 $\chi^2$/NDF:161155.4/42

Out: 11.252+/-0.035 $\chi^2$/NDF:198426.7/50

All: 10.553+/-0.026 $\chi^2$/NDF: 360500.6/93


reg_asym_sam8_diff_bpm4aY_slope vs Slug, Sign Corrected
0
−10
−20
−30
−40
−50
−60
100
120
140
160
180
200
Right In: -40.321+/-0.076 χ²/NDF: 9591.2/19
Left Out: -35.973+/-0.042 χ²/NDF:33609.3/24
Right Out: -38.656+/-0.070 χ²/NDF: 12532.1/25
Left In: -35.737+/-0.045 χ²/NDF:27154.8/22
Left: -35.862+/-0.031 χ²/NDF: 60778.7/47
Right: -39.421+/-0.051 χ²/NDF: 22385.8/45
In: -36.935+/-0.039 χ²/NDF:39465.1/42
Out: -36.699+/-0.036 χ²/NDF:47224.0/50
All: -36.810+/-0.026 χ²/NDF: 86709.0/93




Right In: -37.642+/-0.072 $\chi^2$/NDF: 12547.1/19

Left Out: -26.639+/-0.055 $\chi^2$/NDF:50051.9/24

Right Out: -36.126+/-0.062 $\chi^2$/NDF: 18064.7/25

Left In: -27.176+/-0.057 $\chi^2$/NDF:40990.1/22

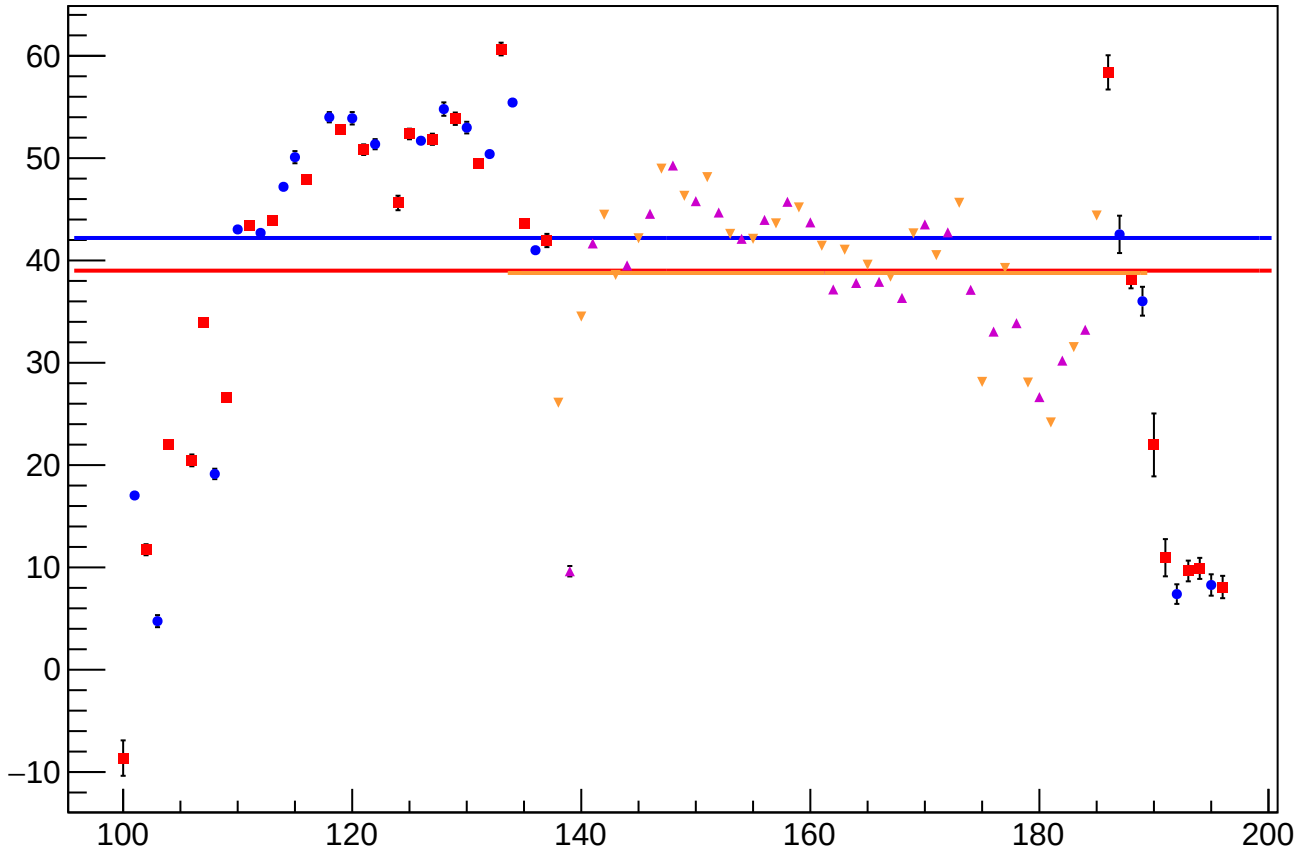
Left: -26.895+/-0.039 $\chi^2$/NDF: 91088.1/47

Right: -36.772+/-0.047 $\chi^2$/NDF: 30865.5/45

In: -31.219+/-0.045 $\chi^2$/NDF:66457.8/42

Out: -30.769+/-0.041 $\chi^2$/NDF:81265.0/50

All: -30.974+/-0.030 $\chi^2$/NDF: 147777.6/93




Right In: 42.197+/-0.084 $\chi^2$/NDF: 17194.3/19

Left Out: 38.777+/-0.048 $\chi^2$/NDF:21070.6/24

Right Out: 39.004+/-0.077 $\chi^2$/NDF: 20869.6/25

Left In: 38.791+/-0.050 $\chi^2$/NDF:16240.7/22

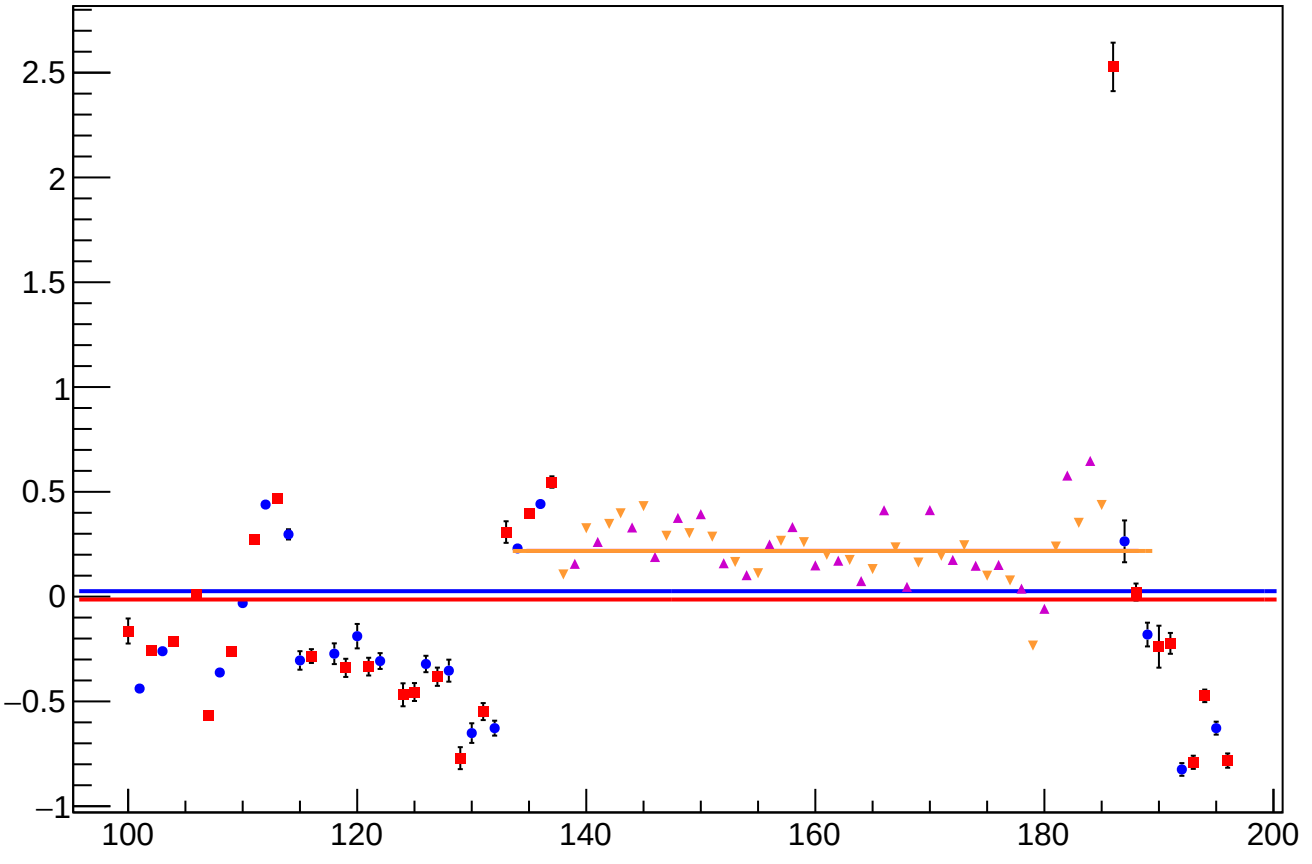
Left: 38.784+/-0.035 $\chi^2$/NDF: 37311.3/47

Right: 40.459+/-0.057 $\chi^2$/NDF: 38846.7/45

In: 39.684+/-0.043 $\chi^2$/NDF:34642.3/42

Out: 38.840+/-0.041 $\chi^2$/NDF:41946.4/50

All: 39.236+/-0.030 $\chi^2$/NDF: 76791.9/93




Right In: 0.026+/-0.005 $\chi^2$/NDF: 6813.0/19

Left Out: 0.218+/-0.002 $\chi^2$/NDF:4075.0/24

Right Out: -0.014+/-0.004 $\chi^2$/NDF: 8331.1/25

Left In: 0.218+/-0.002 $\chi^2$/NDF:5312.2/22

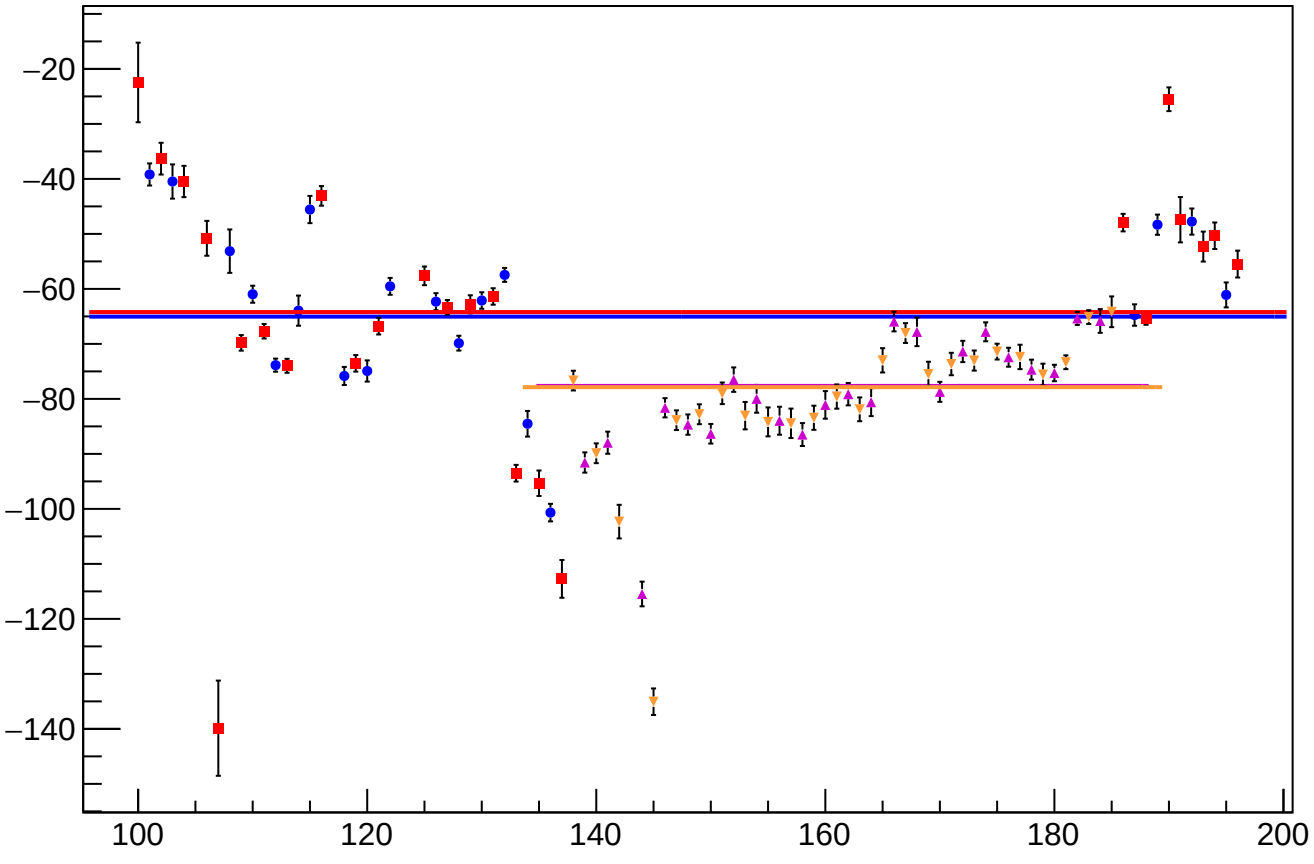
Left: 0.218+/-0.002 $\chi^2$/NDF: 9387.2/47

Right: 0.004+/-0.003 $\chi^2$/NDF: 15183.9/45

In: 0.183+/-0.002 $\chi^2$/NDF:13490.5/42

Out: 0.170+/-0.002 $\chi^2$/NDF:14800.1/50

All: 0.176+/-0.001 $\chi^2$/NDF: 28311.8/93




Right In: -65.043+/-0.394 $\chi^2$/NDF: 1205.0/19

Left Out: -77.867+/-0.394 $\chi^2$/NDF:932.3/23

Right Out: -64.212+/-0.361 $\chi^2$/NDF: 1835.4/24

Left In: -77.643+/-0.396 $\chi^2$/NDF:693.3/22

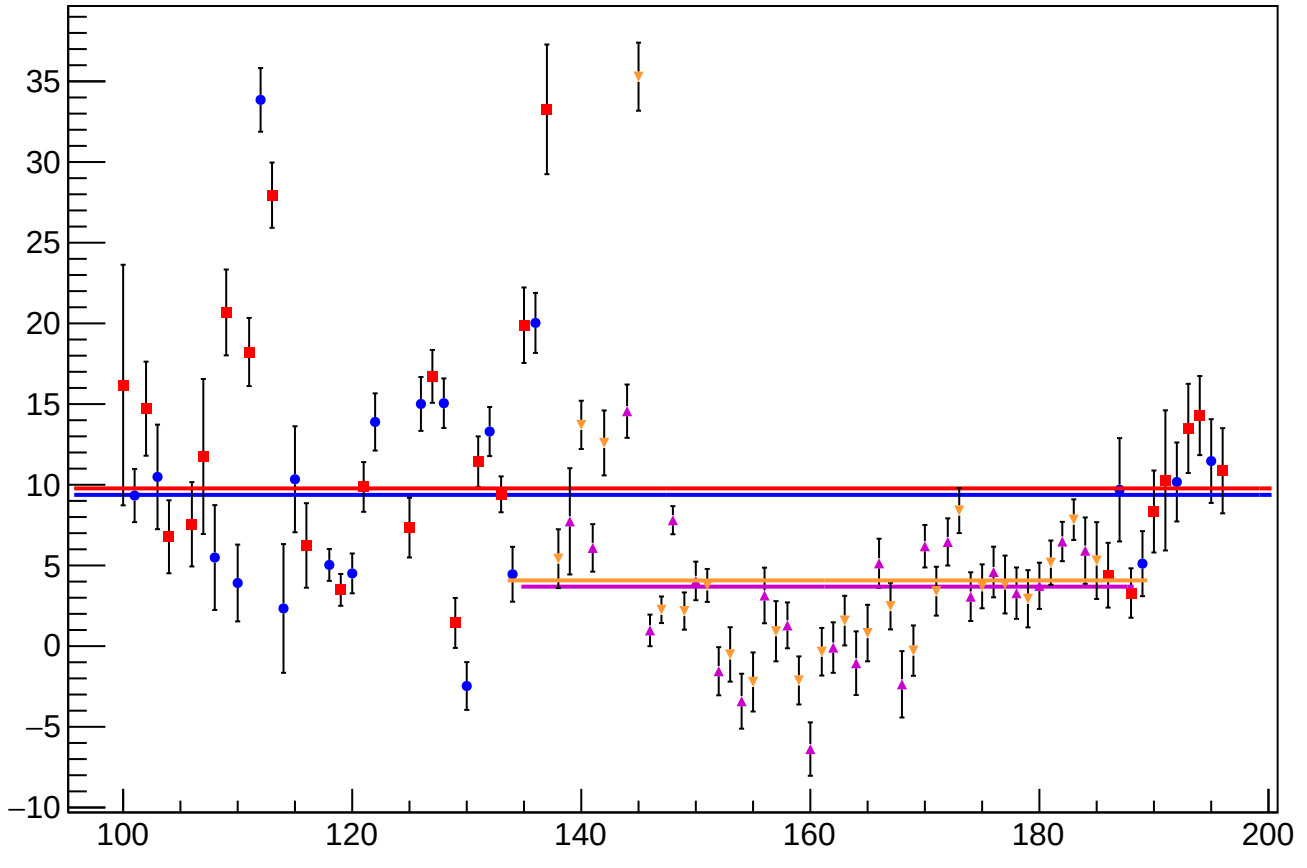
Left: -77.756+/-0.279 $\chi^2$/NDF: 1625.8/46

Right: -64.591+/-0.266 $\chi^2$/NDF: 3042.8/44

In: -71.307+/-0.280 $\chi^2$/NDF:2406.3/42

Out: -70.446+/-0.266 $\chi^2$/NDF:3420.2/48

All: -70.855+/-0.193 $\chi^2$/NDF: 5831.5/91




Right In: 9.374+/-0.404 $\chi^2$/NDF: 347.3/19

Left Out: 4.073+/-0.297 $\chi^2$/NDF:370.6/23

Right Out: 9.774+/-0.389 $\chi^2$/NDF: 295.8/24

Left In: 3.686+/-0.302 $\chi^2$/NDF:182.6/22

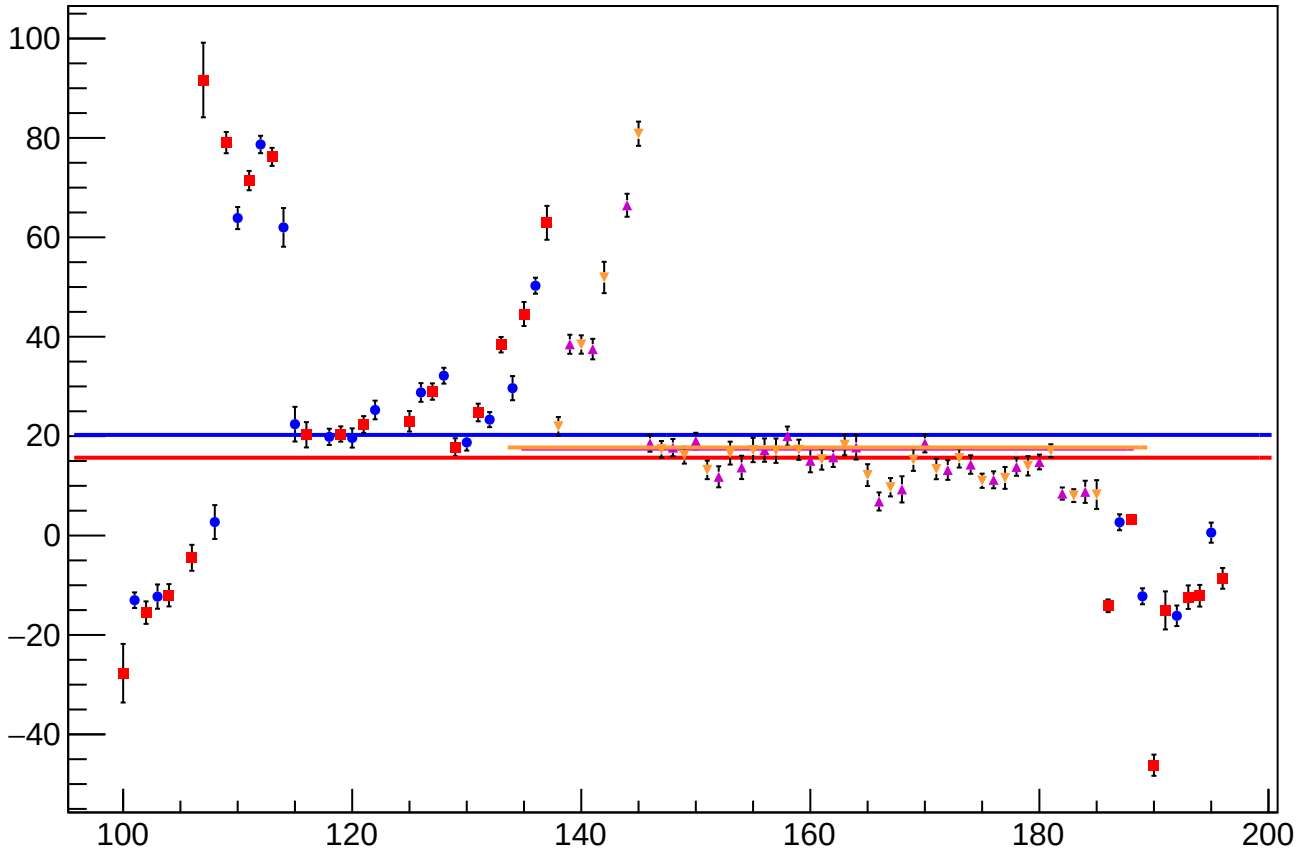
Left: 3.883+/-0.212 $\chi^2$/NDF: 554.0/46

Right: 9.582+/-0.281 $\chi^2$/NDF: 643.5/44

In: 5.720+/-0.242 $\chi^2$/NDF:657.0/42

Out: 6.167+/-0.236 $\chi^2$/NDF:801.9/48

All: 5.949+/-0.169 $\chi^2$/NDF: 1460.7/91




Right In: 20.246+/-0.424 $\chi^2$/NDF: 3654.7/19

Left Out: 17.723+/-0.391 $\chi^2$/NDF:1058.3/23

Right Out: 15.662+/-0.378 $\chi^2$/NDF: 6137.2/24

Left In: 17.491+/-0.393 $\chi^2$/NDF:820.7/22

Left: 17.608+/-0.277 $\chi^2$/NDF: 1879.2/46

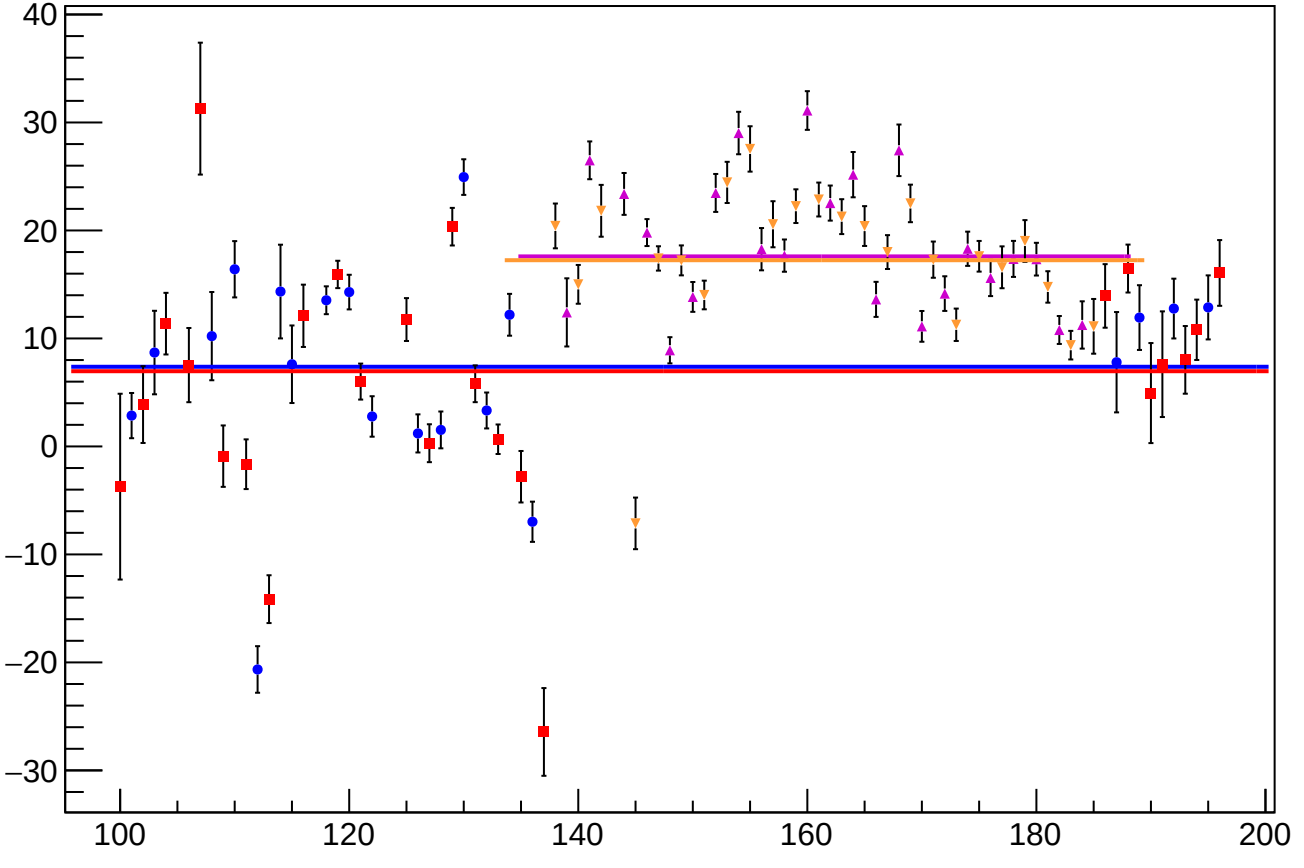
Right: 17.689+/-0.282 $\chi^2$/NDF: 9857.0/44

In: 18.762+/-0.288 $\chi^2$/NDF:4498.1/42

Out: 16.657+/-0.272 $\chi^2$/NDF:7209.9/48

All: 17.648+/-0.198 $\chi^2$/NDF: 11736.3/91

# reg_asym_usl_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 7.377+/-0.473 $\chi^2$/NDF: 454.7/19

Left Out: 17.245+/-0.338 $\chi^2$/NDF:260.8/23

Right Out: 6.966+/-0.460 $\chi^2$/NDF: 407.3/24

Left In: 17.597+/-0.342 $\chi^2$/NDF:309.7/22

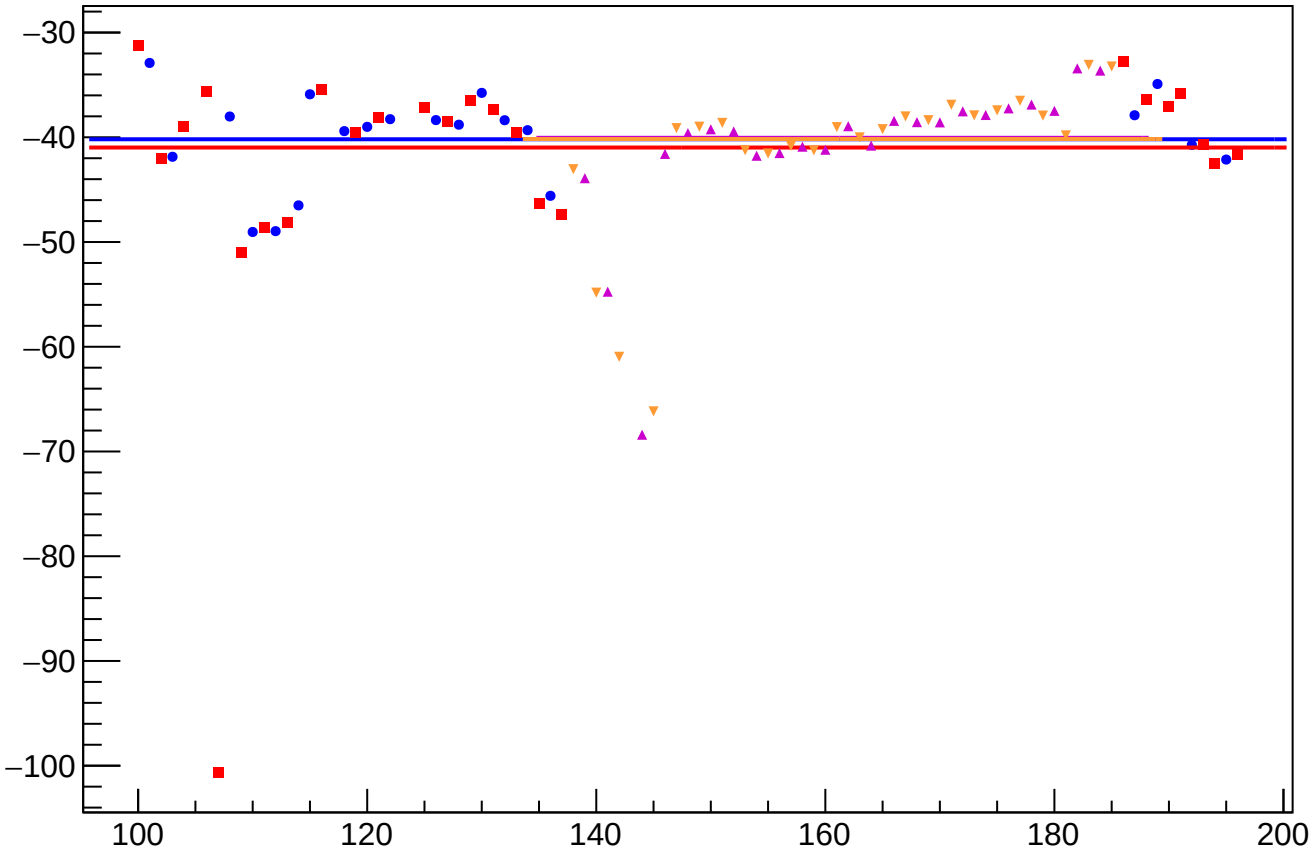
Left: 17.419+/-0.241 $\chi^2$/NDF: 571.0/46

Right: 7.166+/-0.330 $\chi^2$/NDF: 862.4/44

In: 14.083+/-0.277 $\chi^2$/NDF:1071.0/42

Out: 13.644+/-0.273 $\chi^2$/NDF:991.9/48

All: 13.860+/-0.194 $\chi^2$/NDF: 2064.2/91




Right In: -40.189+/-0.027 $\chi^2$/NDF: 23361.2/19

Left Out: -40.165+/-0.015 $\chi^2$/NDF:163335.9/23

Right Out: -40.979+/-0.025 $\chi^2$/NDF: 65883.0/24

Left In: -40.050+/-0.015 $\chi^2$/NDF:136438.5/22

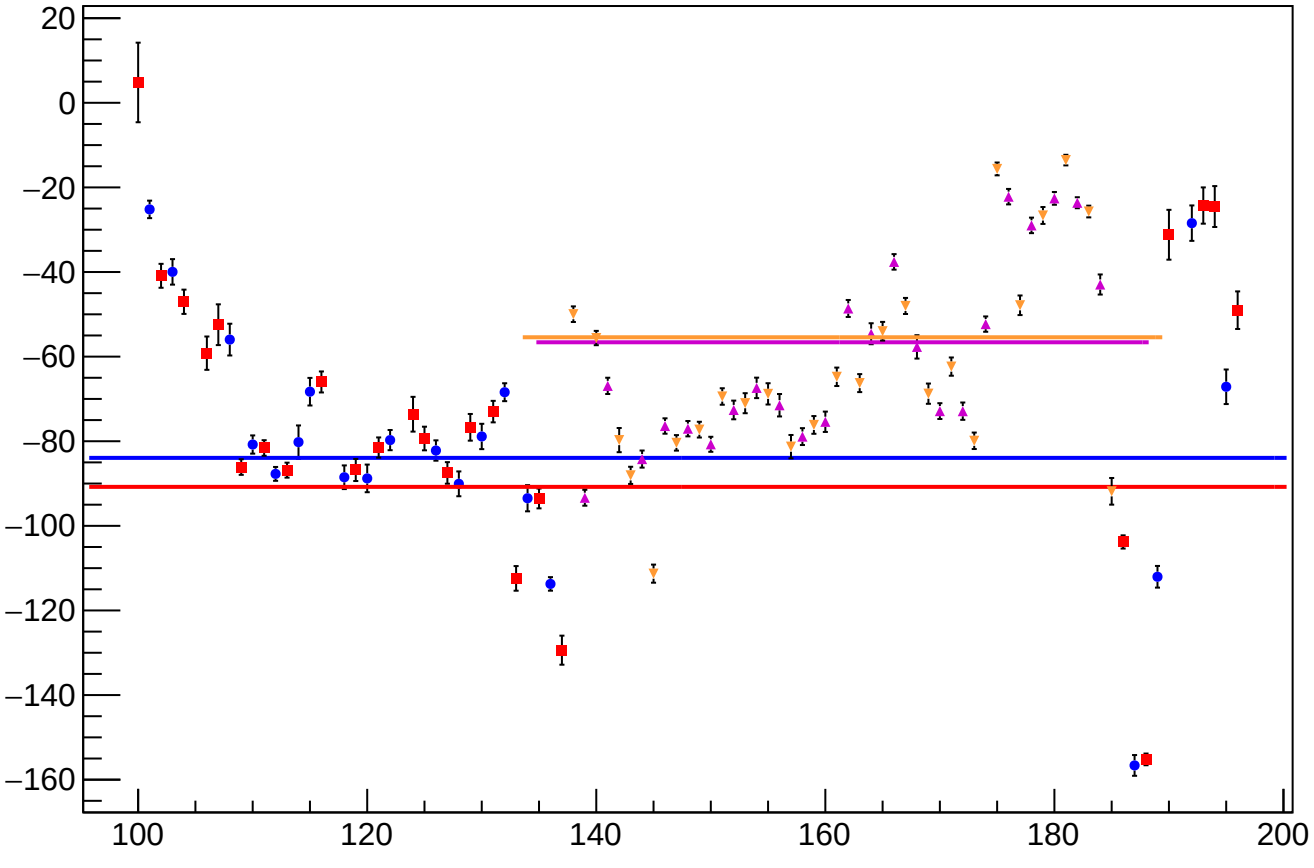
Left: -40.107+/-0.011 $\chi^2$/NDF: 299802.1/46

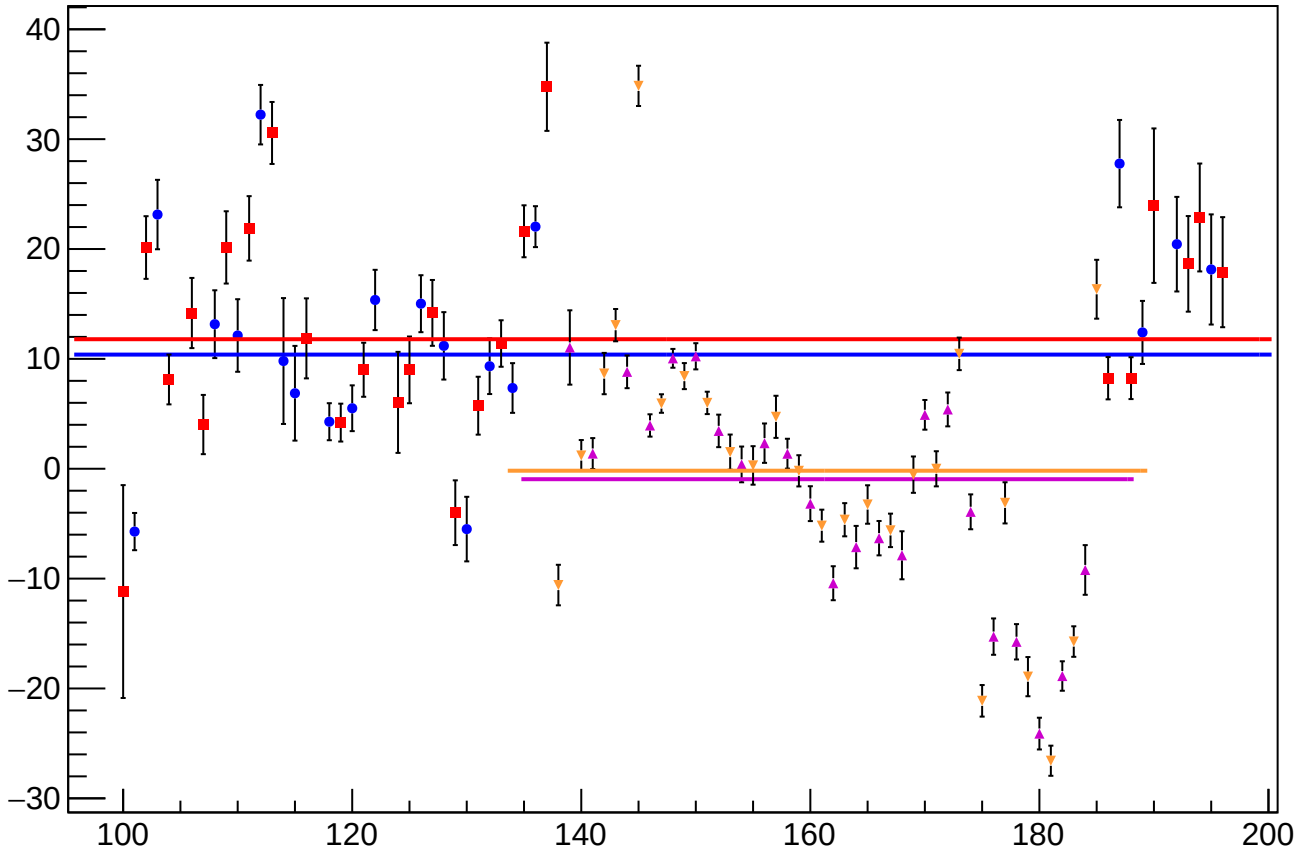
Right: -40.611+/-0.018 $\chi^2$/NDF: 89698.8/44

In: -40.084+/-0.013 $\chi^2$/NDF:159819.7/42

Out: -40.386+/-0.013 $\chi^2$/NDF:229974.5/48

All: -40.237+/-0.009 $\chi^2$/NDF: 390052.9/91


reg_asym_usr_diff_bpm1X_slope vs Slug, Sign Corrected
20
0
−20
−40
−60
−80
−100
−120
−140
−160
100
120
140
160
180
200
Right In: -83.933+/-0.567 χ²/NDF: 2722.4/19
Left Out: -55.424+/-0.393 χ²/NDF:4525.3/24
Right Out: -90.787+/-0.510 χ²/NDF: 4075.9/24
Left In: -56.609+/-0.404 χ²/NDF:3350.3/22
Left: -56.001+/-0.282 χ²/NDF: 7880.0/47
Right: -87.723+/-0.379 χ²/NDF: 6879.2/44
In: -65.808+/-0.329 χ²/NDF:7614.6/42
Out: -68.624+/-0.311 χ²/NDF:11619.1/49
All: -67.293+/-0.226 χ²/NDF: 19272.3/92




Right In: 10.390+/-0.590 $\chi^2$/NDF: 296.4/19

Left Out: -0.179+/-0.294 $\chi^2$/NDF:1598.6/24

Right Out: 11.790+/-0.562 $\chi^2$/NDF: 214.9/24

Left In: -0.952+/-0.304 $\chi^2$/NDF:1069.6/22

Left: -0.553+/-0.211 $\chi^2$/NDF: 2671.5/47

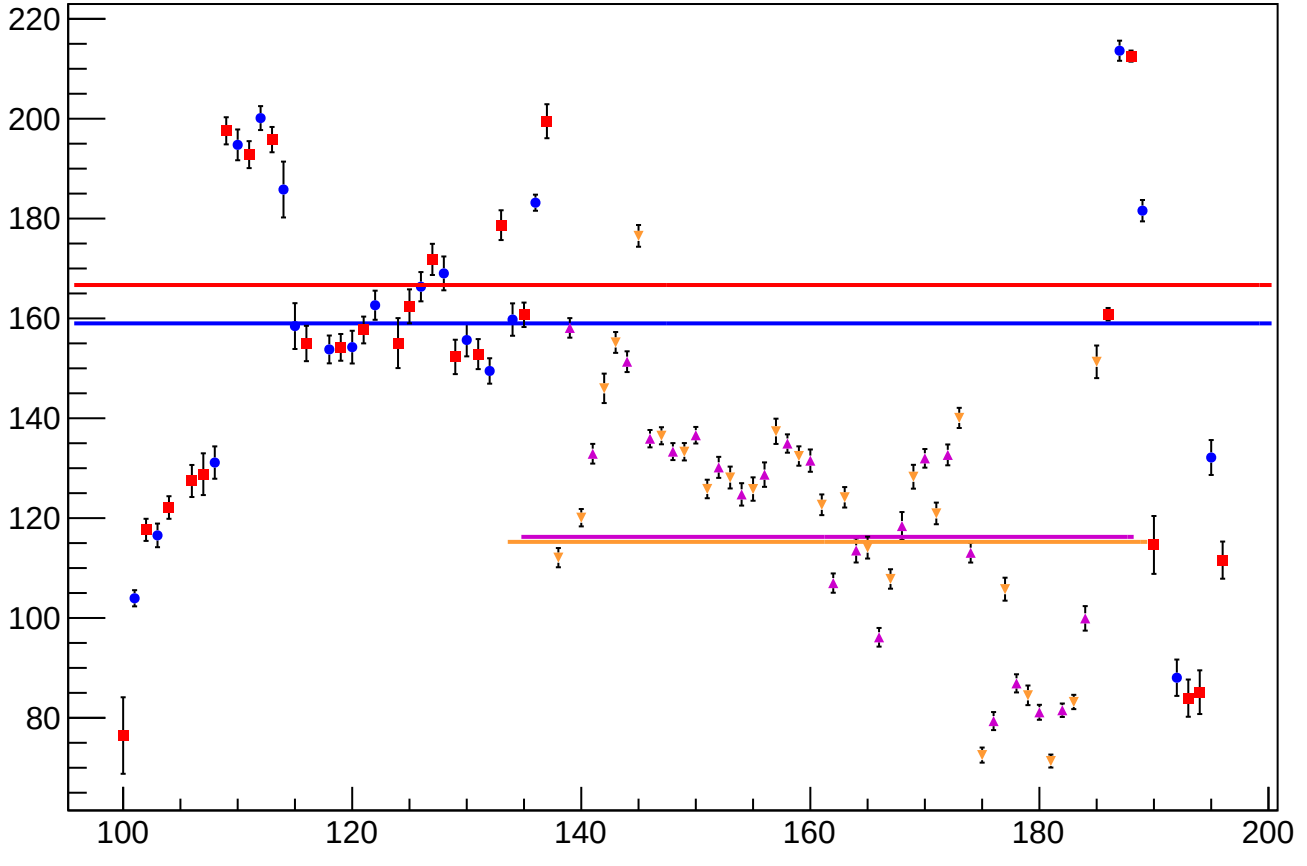
Right: 11.124+/-0.407 $\chi^2$/NDF: 514.2/44

In: 1.426+/-0.270 $\chi^2$/NDF:1657.7/42

Out: 2.394+/-0.261 $\chi^2$/NDF:2169.5/49

All: 1.928+/-0.188 $\chi^2$/NDF: 3833.8/92

# reg_asym_usr_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 159.005+/-0.587 $\chi^2$/NDF: 3550.3/19

Left Out: 115.243+/-0.390 $\chi^2$/NDF:4836.5/24

Right Out: 166.690+/-0.511 $\chi^2$/NDF: 4678.1/24

Left In: 116.246+/-0.399 $\chi^2$/NDF:3637.3/22

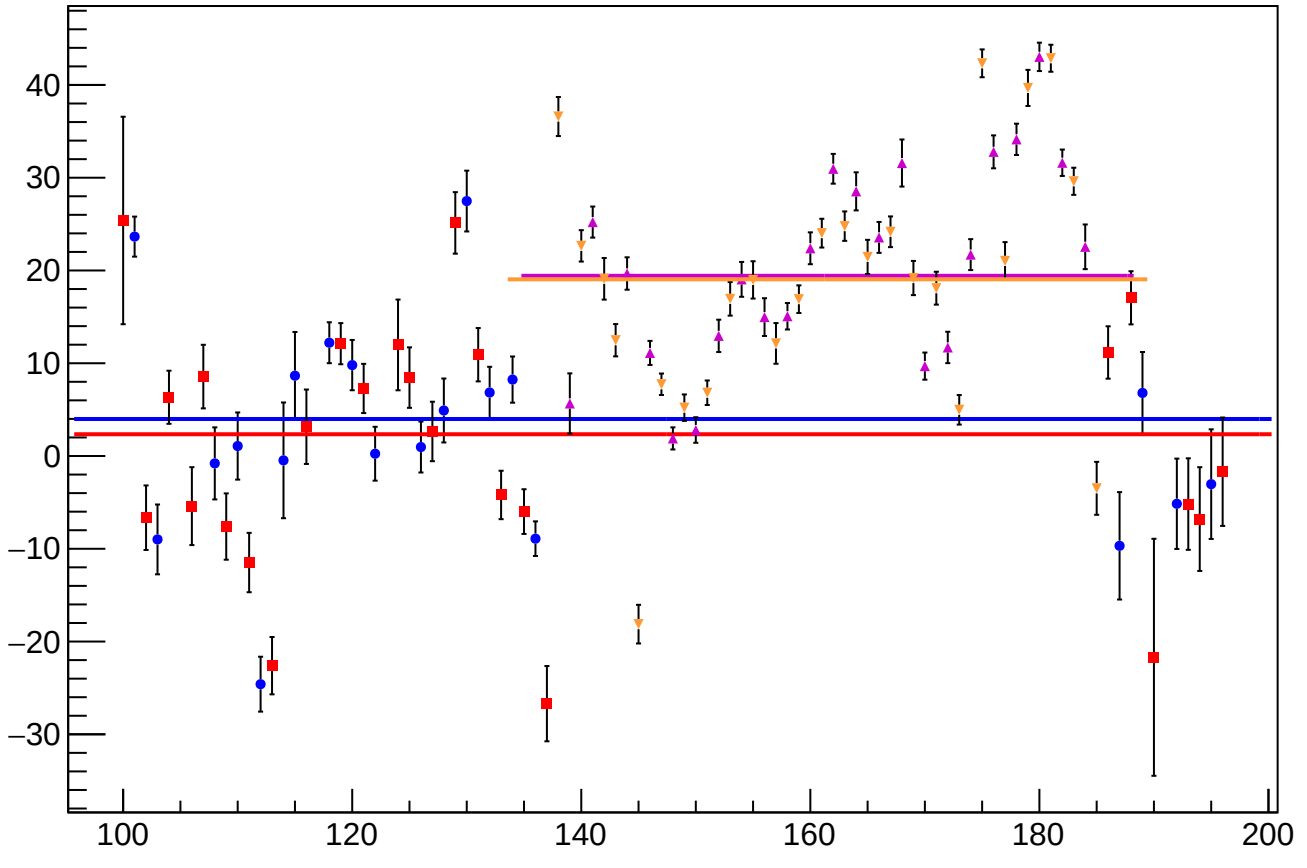
Left: 115.733+/-0.279 $\chi^2$/NDF: 8477.1/47

Right: 163.373+/-0.385 $\chi^2$/NDF: 8326.0/44

In: 129.777+/-0.330 $\chi^2$/NDF:10818.9/42

Out: 134.191+/-0.310 $\chi^2$/NDF:15912.3/49

All: 132.120+/-0.226 $\chi^2$/NDF: 26826.1/92




Right In: 3.990+/-0.688 $\chi^2$/NDF: 327.4/19

Left Out: 19.046+/-0.336 $\chi^2$/NDF:1545.8/24

Right Out: 2.347+/-0.671 $\chi^2$/NDF: 312.2/24

Left In: 19.425+/-0.346 $\chi^2$/NDF:1077.2/22

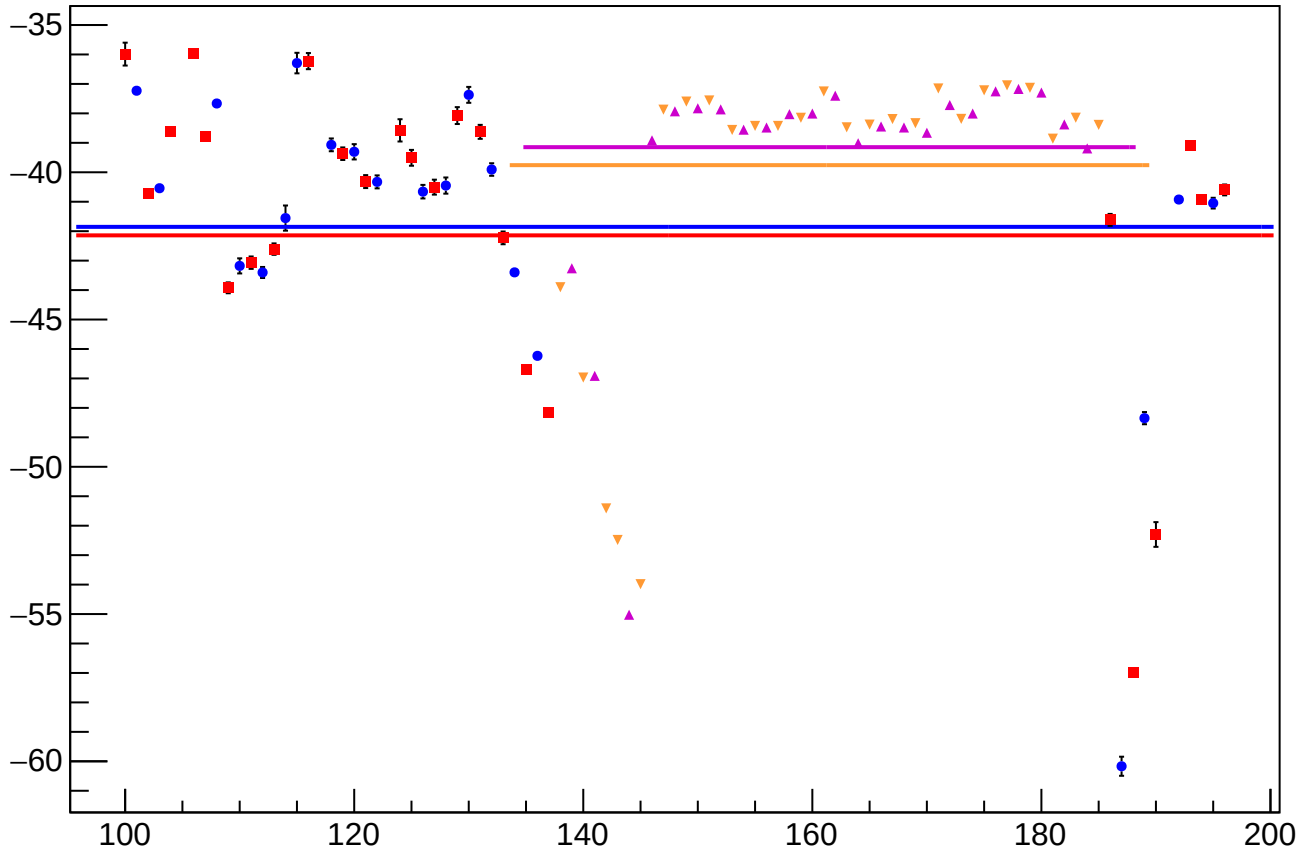
Left: 19.230+/-0.241 $\chi^2$/NDF: 2623.6/47

Right: 3.148+/-0.480 $\chi^2$/NDF: 642.5/44

In: 16.312+/-0.309 $\chi^2$/NDF:1806.5/42

Out: 15.693+/-0.300 $\chi^2$/NDF:2353.6/49

All: 15.994+/-0.215 $\chi^2$/NDF: 4162.2/92




Right In: -41.853+/-0.035 $\chi^2$/NDF: 12244.0/19

Left Out: -39.758+/-0.015 $\chi^2$/NDF:81865.0/24

Right Out: -42.142+/-0.035 $\chi^2$/NDF: 19015.1/24

Left In: -39.147+/-0.016 $\chi^2$/NDF:46907.5/22

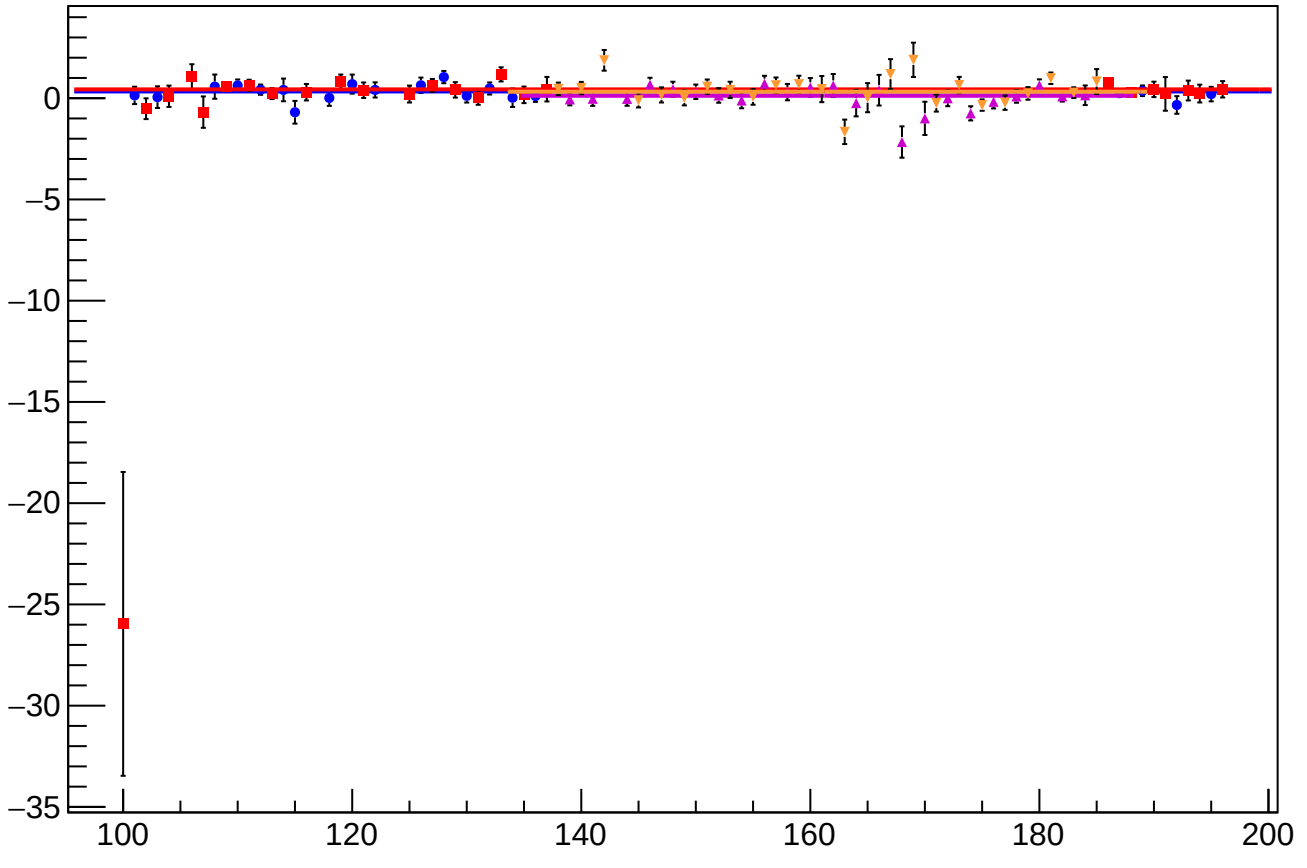
Left: -39.456+/-0.011 $\chi^2$/NDF: 129547.1/47

Right: -42.000+/-0.025 $\chi^2$/NDF: 31292.8/44

In: -39.586+/-0.014 $\chi^2$/NDF:64020.8/42

Out: -40.149+/-0.014 $\chi^2$/NDF:104790.2/49

All: -39.871+/-0.010 $\chi^2$/NDF: 169597.3/92




Right In: 0.333+/-0.078 $\chi^2$/NDF: 16.9/19

Left Out: 0.321+/-0.078 $\chi^2$/NDF:46.9/23

Right Out: 0.436+/-0.064 $\chi^2$/NDF: 34.8/24

Left In: 0.120+/-0.079 $\chi^2$/NDF:30.0/22

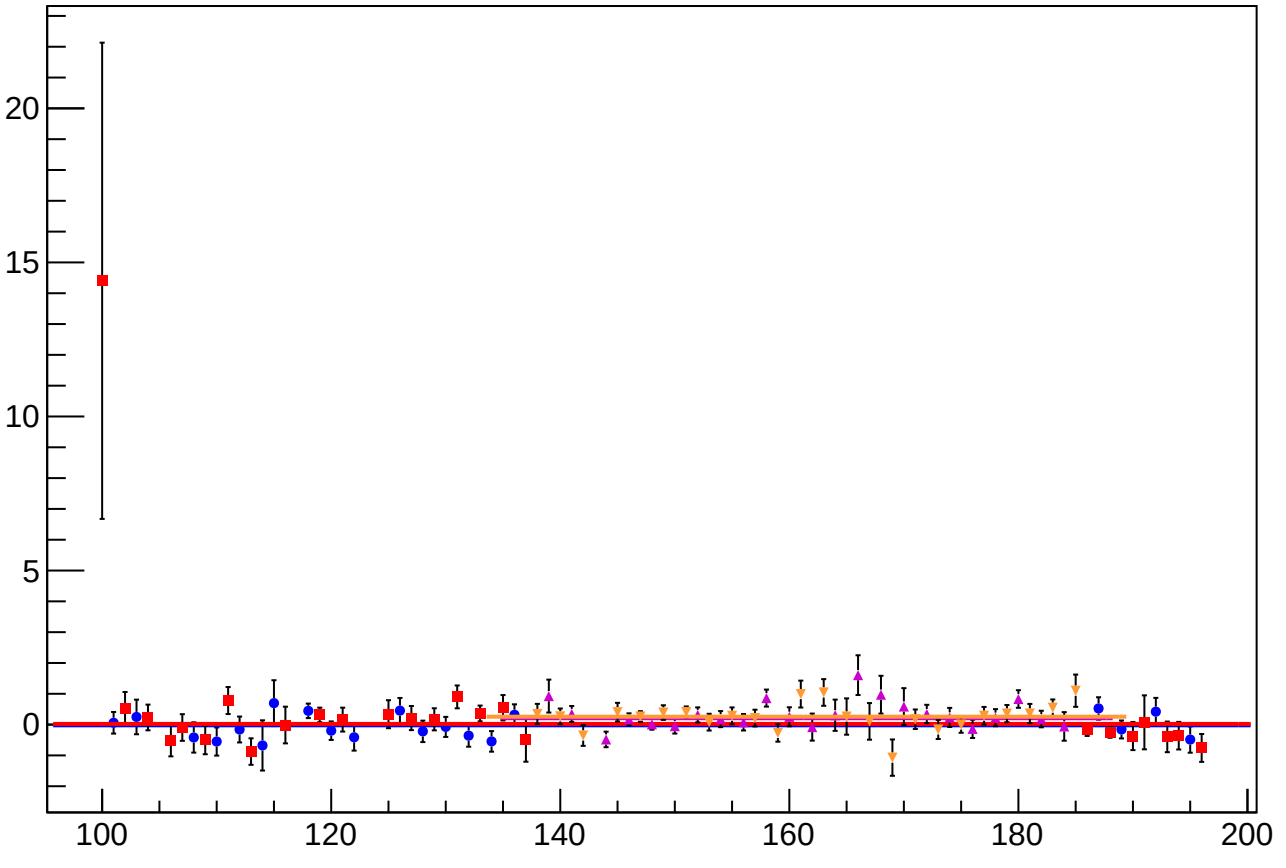
Left: 0.222+/-0.056 $\chi^2$/NDF: 80.1/46

Right: 0.394+/-0.050 $\chi^2$/NDF: 52.8/44

In: 0.229+/-0.056 $\chi^2$/NDF:50.6/42

Out: 0.390+/-0.050 $\chi^2$/NDF:83.0/48

All: 0.318+/-0.037 $\chi^2$/NDF: 138.2/91




Right In: -0.023+/-0.084 $\chi^2$/NDF: 19.7/19

Left Out: 0.257+/-0.059 $\chi^2$/NDF:26.5/23

Right Out: 0.022+/-0.074 $\chi^2$/NDF: 34.4/24

Left In: 0.207+/-0.060 $\chi^2$/NDF:31.9/22

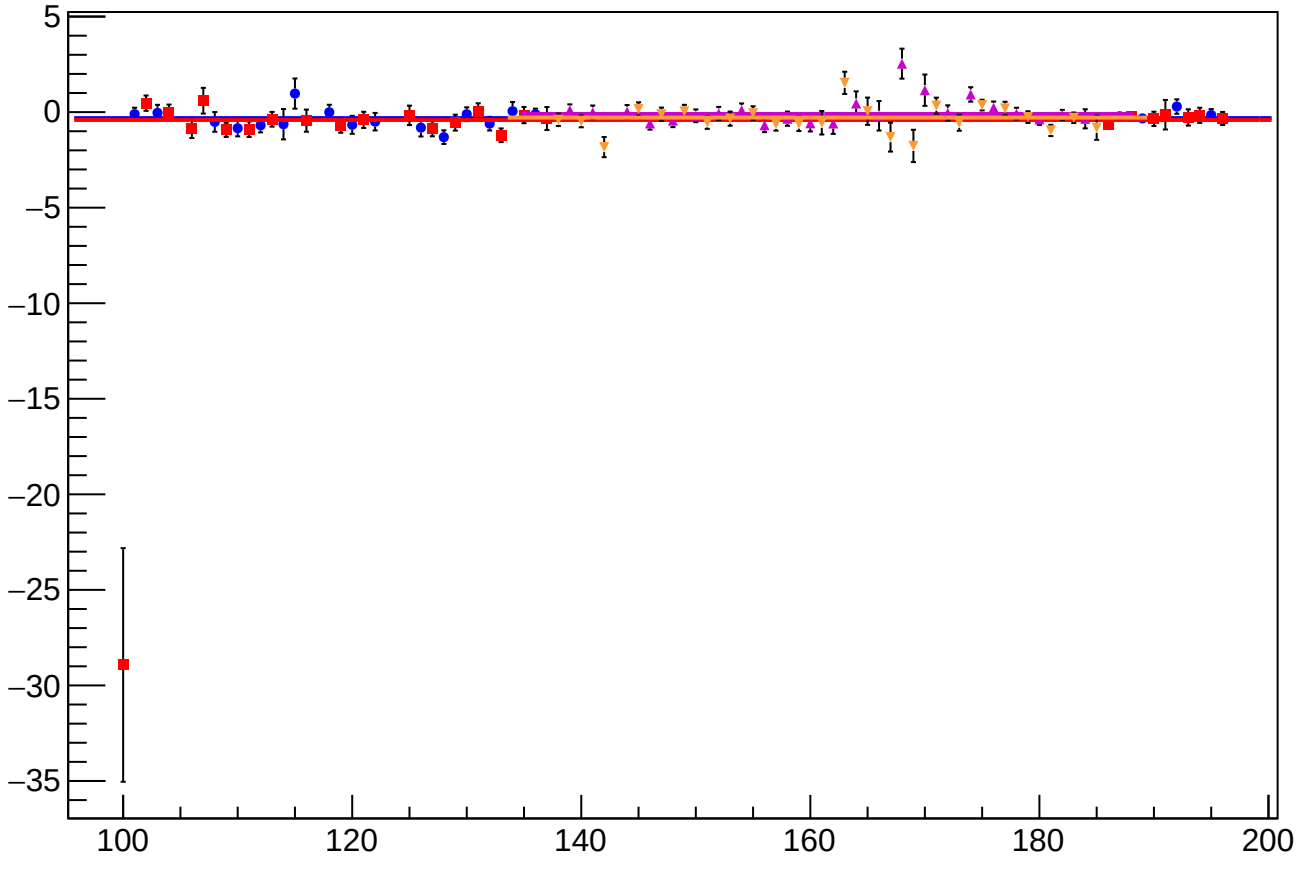
Left: 0.232+/-0.042 $\chi^2$/NDF: 58.7/46

Right: 0.002+/-0.055 $\chi^2$/NDF: 54.2/44

In: 0.128+/-0.049 $\chi^2$/NDF:56.6/42

Out: 0.165+/-0.046 $\chi^2$/NDF:67.0/48

All: 0.148+/-0.034 $\chi^2$/NDF: 123.8/91




Right In: -0.315+/-0.079 $\chi^2$/NDF: 21.7/19

Left Out: -0.286+/-0.077 $\chi^2$/NDF:45.0/23

Right Out: -0.410+/-0.061 $\chi^2$/NDF: 48.7/24

Left In: -0.100+/-0.078 $\chi^2$/NDF:33.2/22

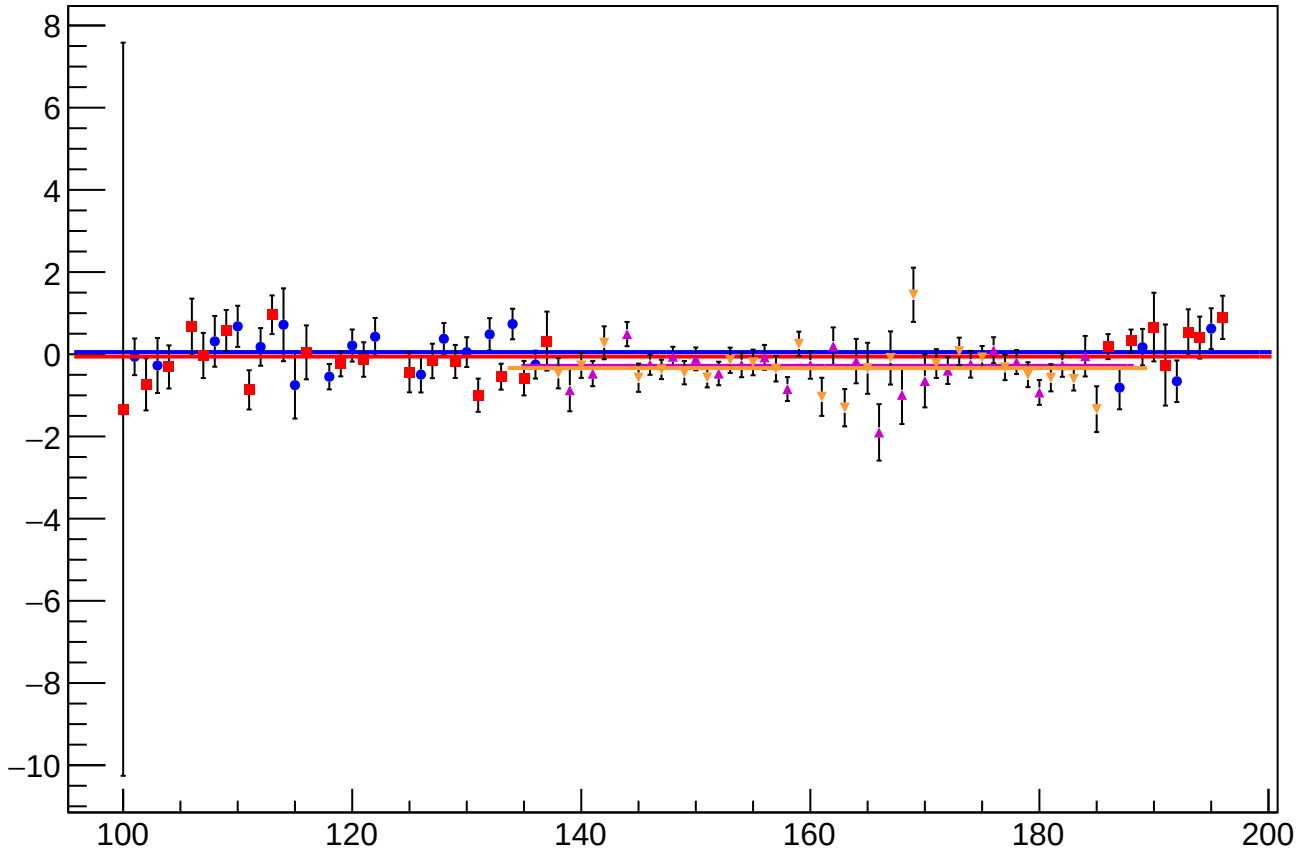
Left: -0.194+/-0.055 $\chi^2$/NDF: 81.1/46

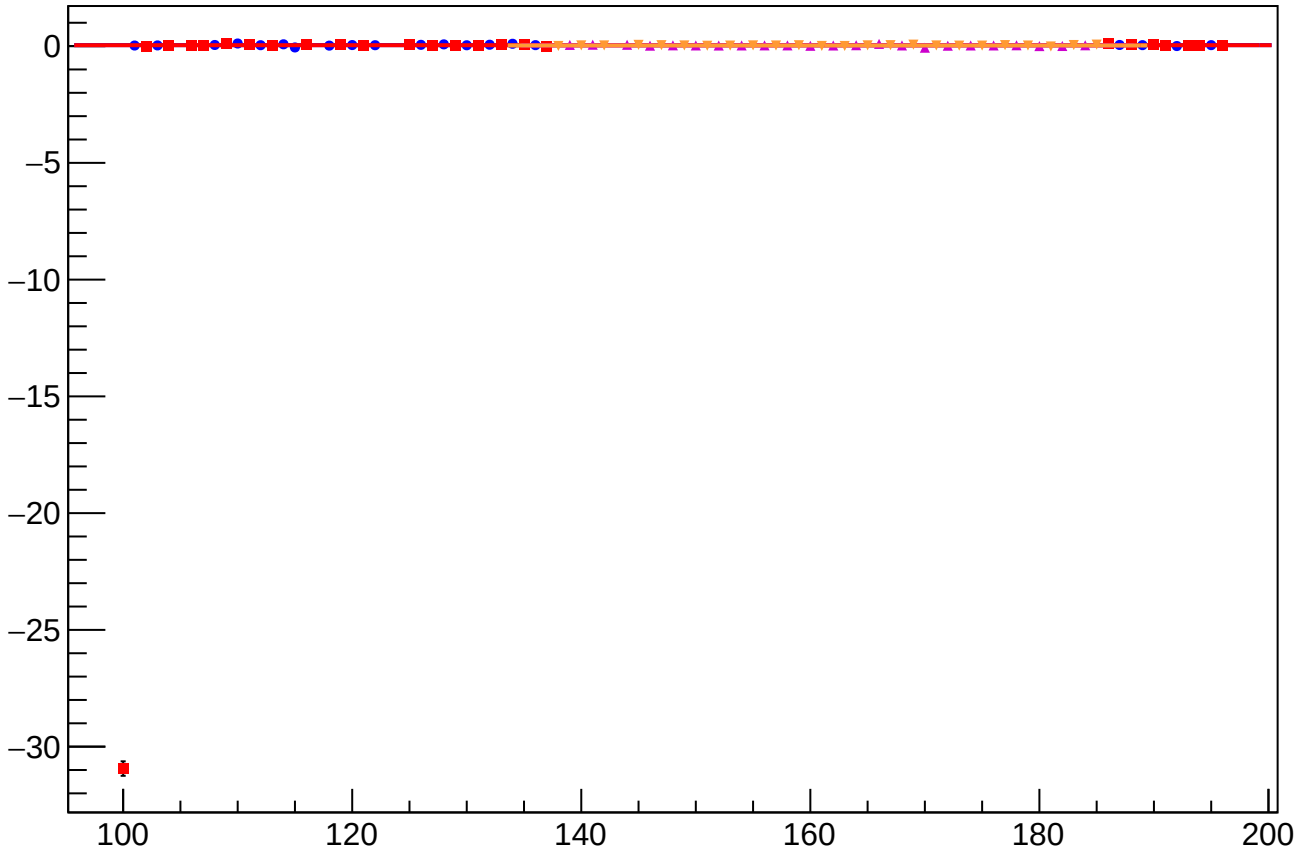
Right: -0.374+/-0.048 $\chi^2$/NDF: 71.3/44

In: -0.207+/-0.055 $\chi^2$/NDF:58.7/42

Out: -0.363+/-0.048 $\chi^2$/NDF:95.3/48

All: -0.296+/-0.036 $\chi^2$/NDF: 158.5/91


reg_asym_dsl_diff_bpm4eY_slope vs Slug, Sign Corrected
8
6
4
2
0
−2
−4
−6
−8
−10
100
120
140
160
180
200
Right In: 0.053+/-0.099 χ²/NDF: 22.0/19
Left Out: -0.337+/-0.068 χ²/NDF:30.1/23
Right Out: -0.056+/-0.091 χ²/NDF: 30.9/24
Left In: -0.282+/-0.069 χ²/NDF:29.0/22
Left: -0.310+/-0.048 χ²/NDF: 59.4/46
Right: -0.006+/-0.067 χ²/NDF: 53.6/44
In: -0.173+/-0.057 χ²/NDF:58.7/42
Out: -0.237+/-0.055 χ²/NDF:67.1/48
All: -0.206+/-0.039 χ²/NDF: 126.5/91




Right In: 0.043+/-0.005 $\chi^2$/NDF: 26.3/19

Left Out: 0.028+/-0.003 $\chi^2$/NDF:27.6/23

Right Out: 0.039+/-0.005 $\chi^2$/NDF: 10038.2/24

Left In: 0.029+/-0.003 $\chi^2$/NDF:38.9/22

Left: 0.029+/-0.002 $\chi^2$/NDF: 66.6/46

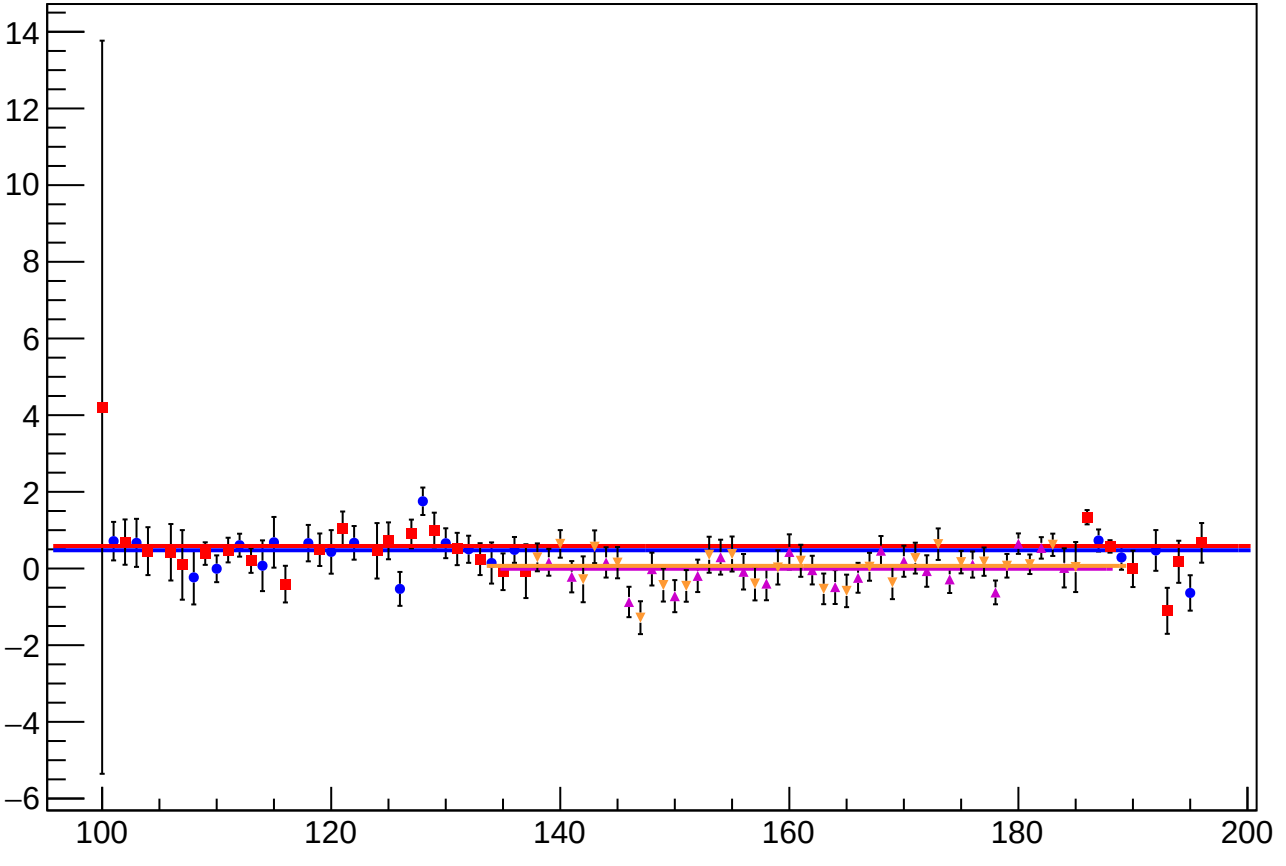
Right: 0.041+/-0.003 $\chi^2$/NDF: 10064.8/44

In: 0.033+/-0.003 $\chi^2$/NDF:69.9/42

Out: 0.031+/-0.003 $\chi^2$/NDF:10069.6/48

All: 0.032+/-0.002 $\chi^2$/NDF: 10139.7/91

# reg_asym_dsr_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 0.476+/-0.093 $\chi^2$/NDF: 29.7/19

Left Out: 0.069+/-0.077 $\chi^2$/NDF:31.1/24

Right Out: 0.587+/-0.076 $\chi^2$/NDF: 39.4/24

Left In: -0.006+/-0.079 $\chi^2$/NDF:28.5/22

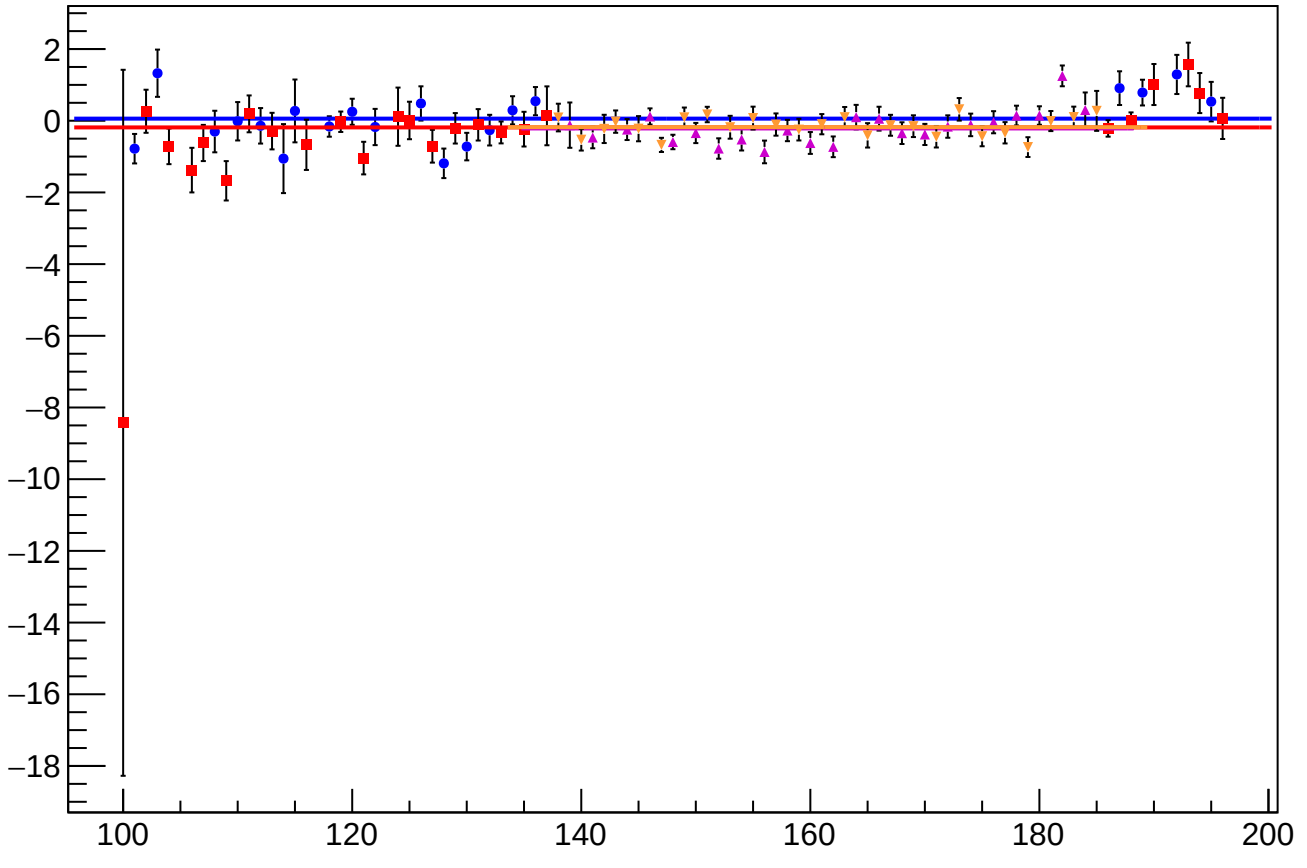
Left: 0.032+/-0.055 $\chi^2$/NDF: 60.1/47

Right: 0.543+/-0.059 $\chi^2$/NDF: 70.0/44

In: 0.196+/-0.060 $\chi^2$/NDF:73.7/42

Out: 0.331+/-0.054 $\chi^2$/NDF:93.3/49

All: 0.271+/-0.040 $\chi^2$/NDF: 169.8/92




Right In: 0.059+/-0.100 $\chi^2$/NDF: 40.6/19

Left Out: -0.180+/-0.059 $\chi^2$/NDF:24.7/24

Right Out: -0.186+/-0.088 $\chi^2$/NDF: 37.6/24

Left In: -0.216+/-0.062 $\chi^2$/NDF:53.6/22

Left: -0.197+/-0.043 $\chi^2$/NDF: 78.5/47

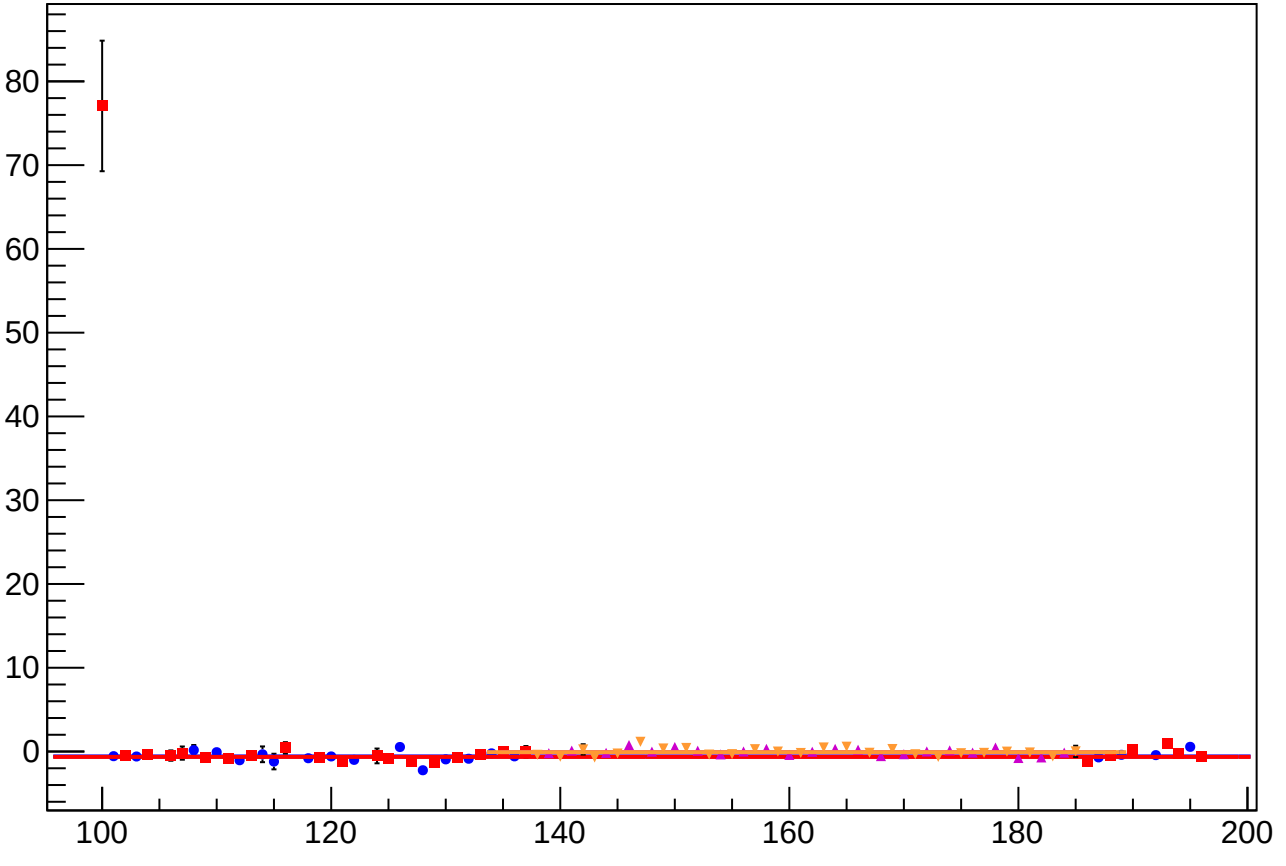
Right: -0.080+/-0.066 $\chi^2$/NDF: 81.6/44

In: -0.141+/-0.052 $\chi^2$/NDF:99.6/42

Out: -0.182+/-0.049 $\chi^2$/NDF:62.3/49

All: -0.163+/-0.036 $\chi^2$/NDF: 162.3/92

# reg_asym_dsr_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -0.588+/-0.095 $\chi^2$/NDF: 35.0/19

Left Out: -0.077+/-0.077 $\chi^2$/NDF:30.0/24

Right Out: -0.643+/-0.073 $\chi^2$/NDF: 136.6/24

Left In: -0.075+/-0.079 $\chi^2$/NDF:28.3/22

Left: -0.076+/-0.055 $\chi^2$/NDF: 58.3/47

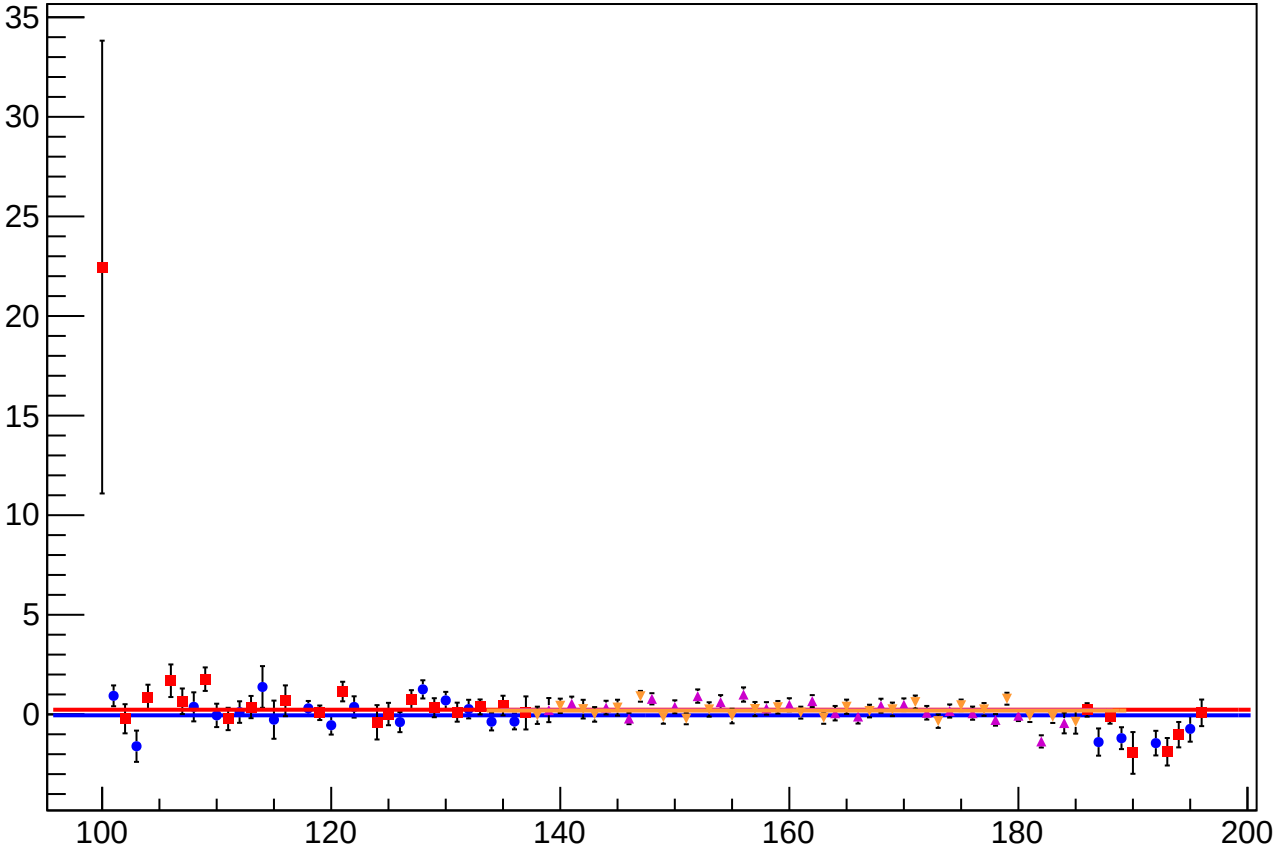
Right: -0.623+/-0.058 $\chi^2$/NDF: 171.8/44

In: -0.283+/-0.061 $\chi^2$/NDF:80.5/42

Out: -0.375+/-0.053 $\chi^2$/NDF:195.3/49

All: -0.335+/-0.040 $\chi^2$/NDF: 277.1/92

# reg_asym_dsr_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -0.048+/-0.118 $\chi^2$/NDF: 40.1/19

Left Out: 0.193+/-0.067 $\chi^2$/NDF:25.9/24

Right Out: 0.233+/-0.108 $\chi^2$/NDF: 41.1/24

Left In: 0.215+/-0.069 $\chi^2$/NDF:55.1/22

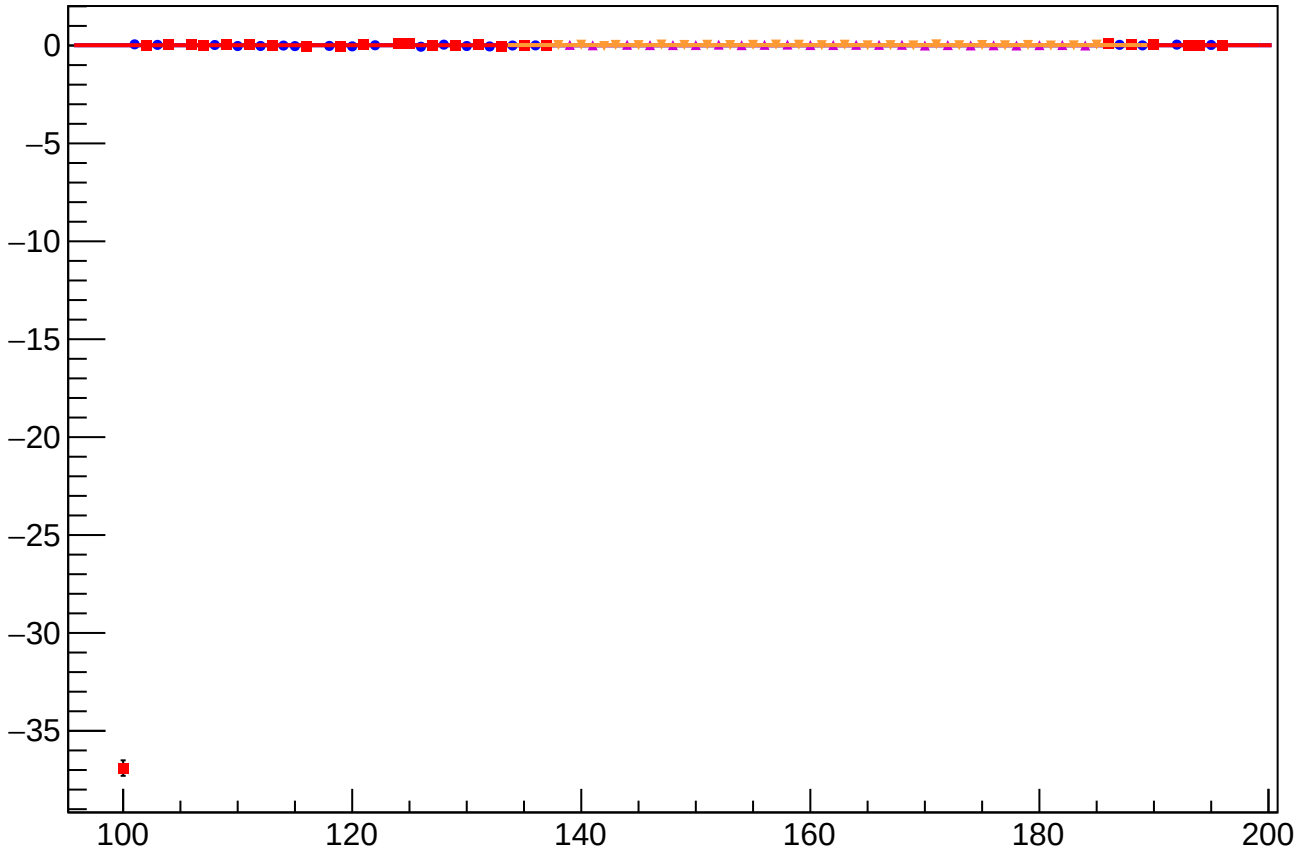
Left: 0.204+/-0.048 $\chi^2$/NDF: 81.0/47

Right: 0.105+/-0.080 $\chi^2$/NDF: 84.2/44

In: 0.148+/-0.060 $\chi^2$/NDF:98.8/42

Out: 0.204+/-0.057 $\chi^2$/NDF:67.0/49

All: 0.178+/-0.041 $\chi^2$/NDF: 166.3/92




Right In: 0.013+/-0.006 $\chi^2$/NDF: 21.9/19

Left Out: 0.024+/-0.003 $\chi^2$/NDF:30.2/24

Right Out: 0.015+/-0.006 $\chi^2$/NDF: 8775.7/24

Left In: 0.024+/-0.003 $\chi^2$/NDF:18.0/22

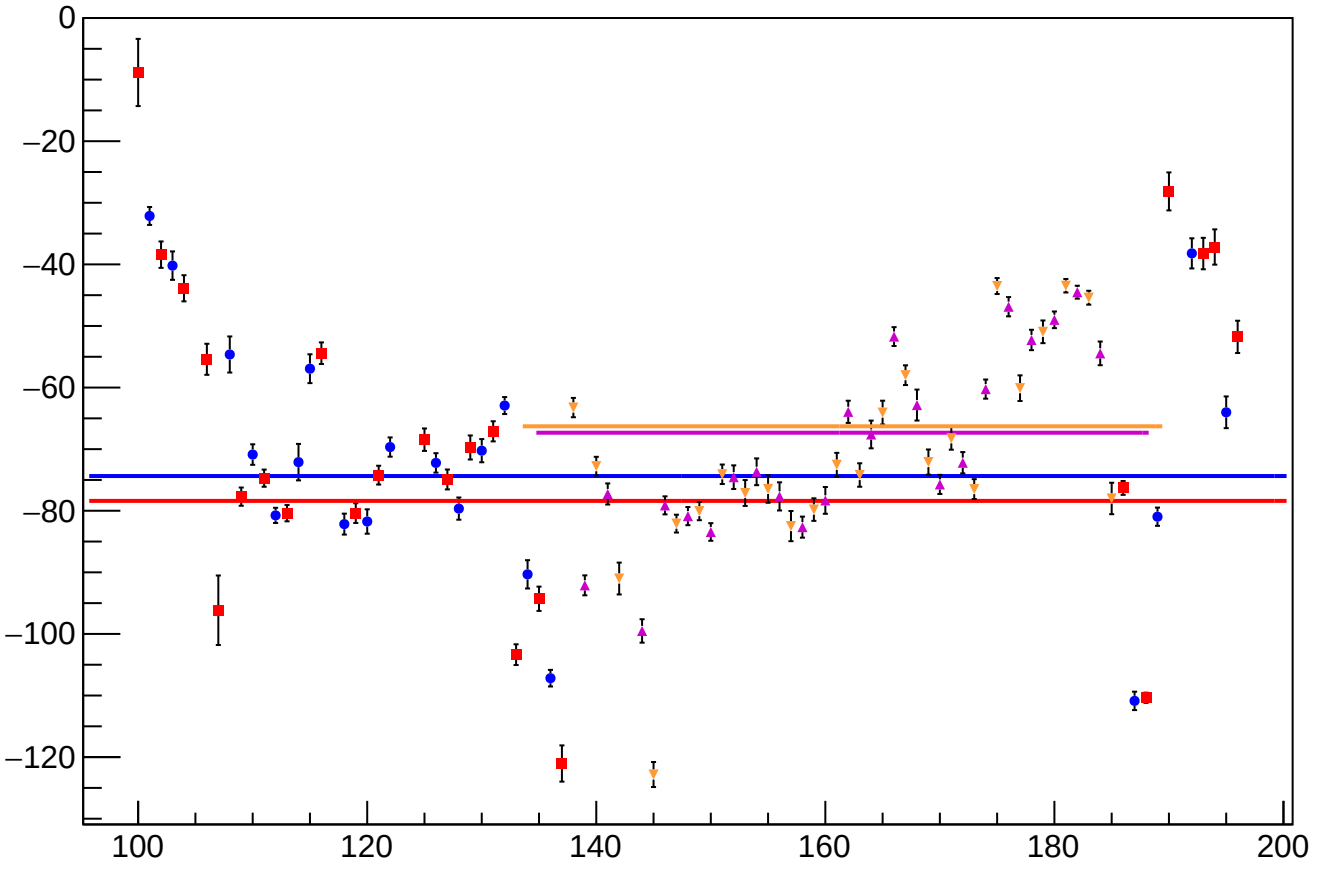
Left: 0.024+/-0.002 $\chi^2$/NDF: 48.2/47

Right: 0.014+/-0.004 $\chi^2$/NDF: 8797.7/44

In: 0.022+/-0.003 $\chi^2$/NDF:42.6/42

Out: 0.022+/-0.003 $\chi^2$/NDF:8808.0/49

All: 0.022+/-0.002 $\chi^2$/NDF: 8850.5/92




Right In: -74.365+/-0.390 $\chi^2$/NDF: 2812.3/19

Left Out: -66.289+/-0.344 $\chi^2$/NDF:2550.4/23

Right Out: -78.400+/-0.350 $\chi^2$/NDF: 3988.3/23

Left In: -67.331+/-0.345 $\chi^2$/NDF:2102.6/22

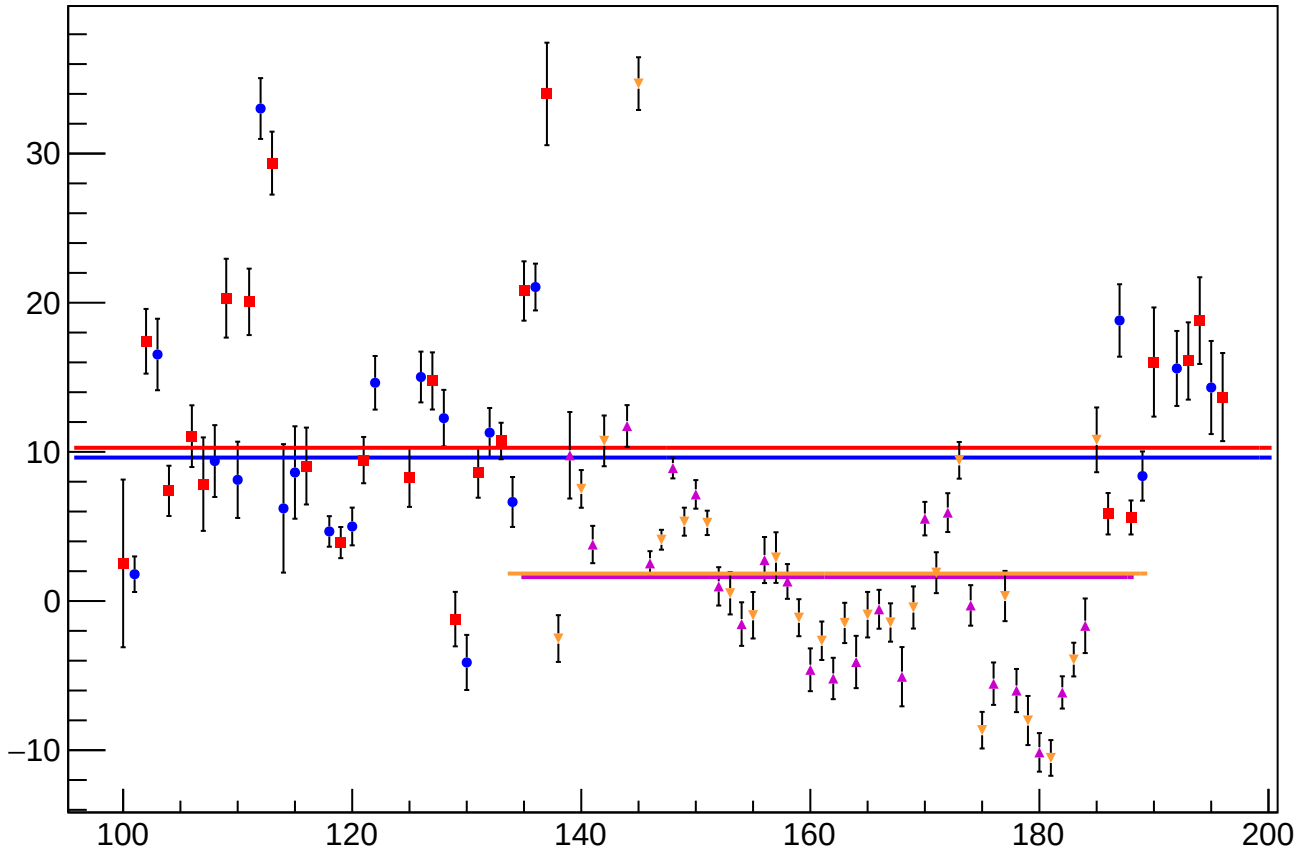
Left: -66.808+/-0.244 $\chi^2$/NDF: 4657.6/46

Right: -76.600+/-0.260 $\chi^2$/NDF: 6860.0/43

In: -70.422+/-0.258 $\chi^2$/NDF:5097.5/42

Out: -72.240+/-0.245 $\chi^2$/NDF:7148.5/47

All: -71.379+/-0.178 $\chi^2$/NDF: 12272.0/90




Right In: 9.618+/-0.397 $\chi^2$/NDF: 376.0/19

Left Out: 1.842+/-0.254 $\chi^2$/NDF:781.5/23

Right Out: 10.274+/-0.381 $\chi^2$/NDF: 336.5/23

Left In: 1.605+/-0.258 $\chi^2$/NDF:496.6/22

Left: 1.726+/-0.181 $\chi^2$/NDF: 1278.5/46

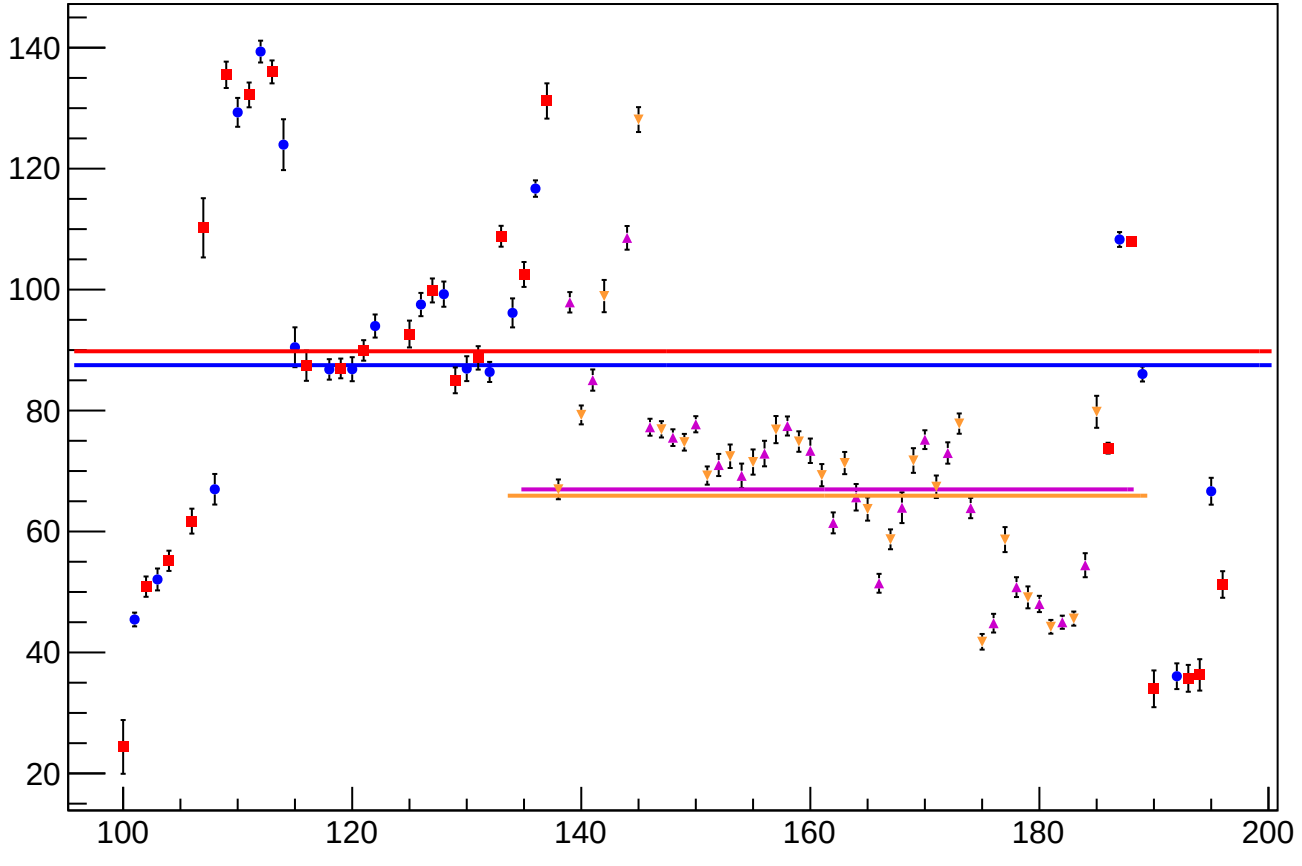
Right: 9.960+/-0.275 $\chi^2$/NDF: 714.0/43

In: 3.986+/-0.217 $\chi^2$/NDF:1158.3/42

Out: 4.447+/-0.211 $\chi^2$/NDF:1457.3/47

All: 4.222+/-0.151 $\chi^2$/NDF: 2618.0/90

reg_asym_us_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 87.505+/-0.399 $\chi^2$/NDF: 4523.4/19

Left Out: 65.923+/-0.341 $\chi^2$/NDF:2555.6/23

Right Out: 89.802+/-0.344 $\chi^2$/NDF: 5971.1/23

Left In: 66.964+/-0.341 $\chi^2$/NDF:2221.3/22

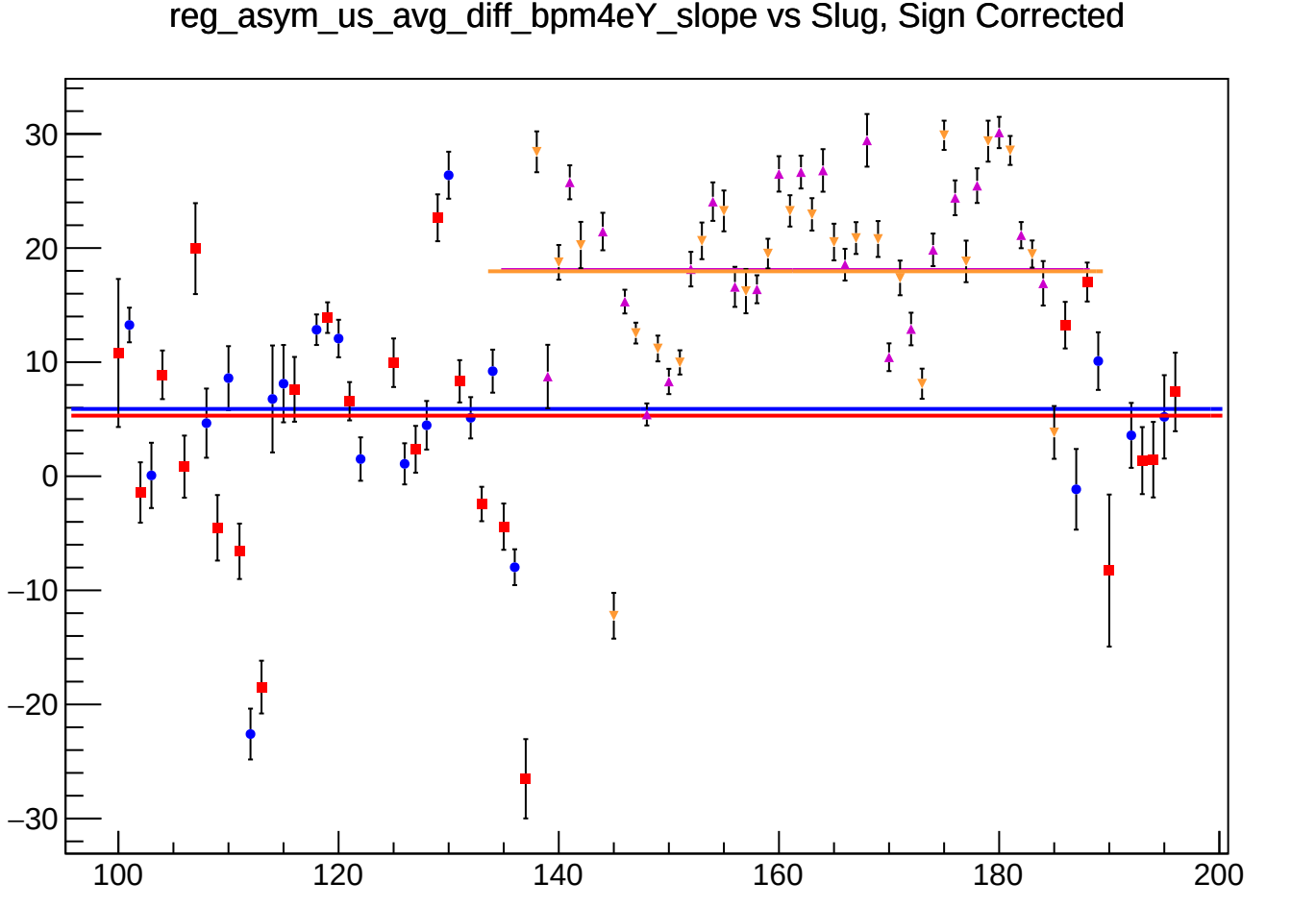
Left: 66.442+/-0.241 $\chi^2$/NDF: 4781.6/46

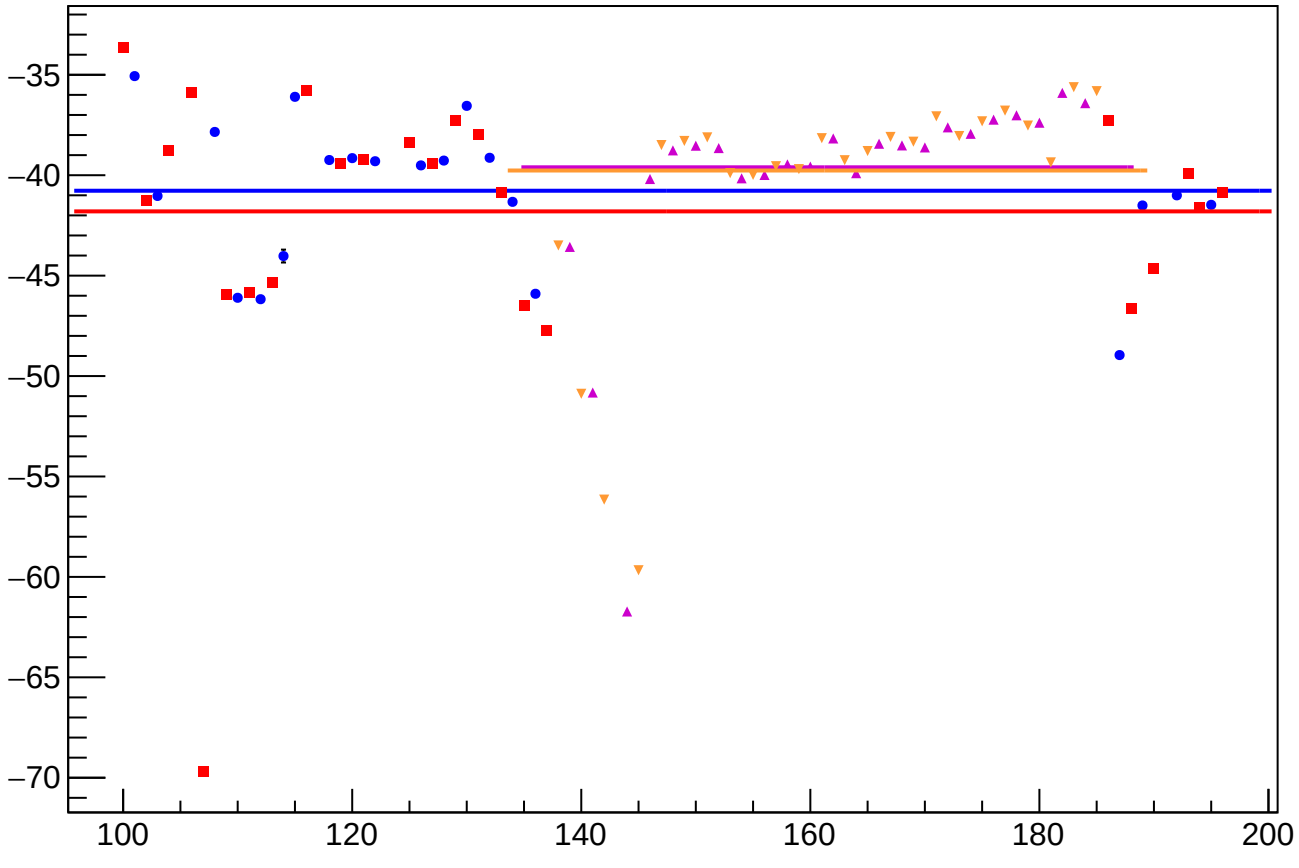
Right: 88.823+/-0.260 $\chi^2$/NDF: 10513.6/43

In: 75.645+/-0.259 $\chi^2$/NDF:8276.4/42

Out: 77.746+/-0.242 $\chi^2$/NDF:10961.8/47

All: 76.768+/-0.177 $\chi^2$/NDF: 19273.3/90


reg_asym_us_avg_diff_bpm4eY_slope vs Slug, Sign Corrected
30
20
10
0
−10
−20
−30
100
120
140
160
180
200
Right In: 5.898+/-0.470 χ²/NDF: 434.2/19
Left Out: 17.963+/-0.292 χ²/NDF:732.1/23
Right Out: 5.311+/-0.459 χ²/NDF: 494.0/23
Left In: 18.079+/-0.295 χ²/NDF:605.0/22
Left: 18.020+/-0.207 χ²/NDF: 1337.2/46
Right: 5.598+/-0.328 χ²/NDF: 929.0/43
In: 14.642+/-0.250 χ²/NDF:1520.9/42
Out: 14.318+/-0.246 χ²/NDF:1767.2/47
All: 14.478+/-0.175 χ²/NDF: 3288.9/90




Right In: -40.773+/-0.025 $\chi^2$/NDF: 20036.7/19

Left Out: -39.765+/-0.013 $\chi^2$/NDF:129895.4/23

Right Out: -41.801+/-0.024 $\chi^2$/NDF: 41454.3/23

Left In: -39.606+/-0.013 $\chi^2$/NDF:106639.2/22

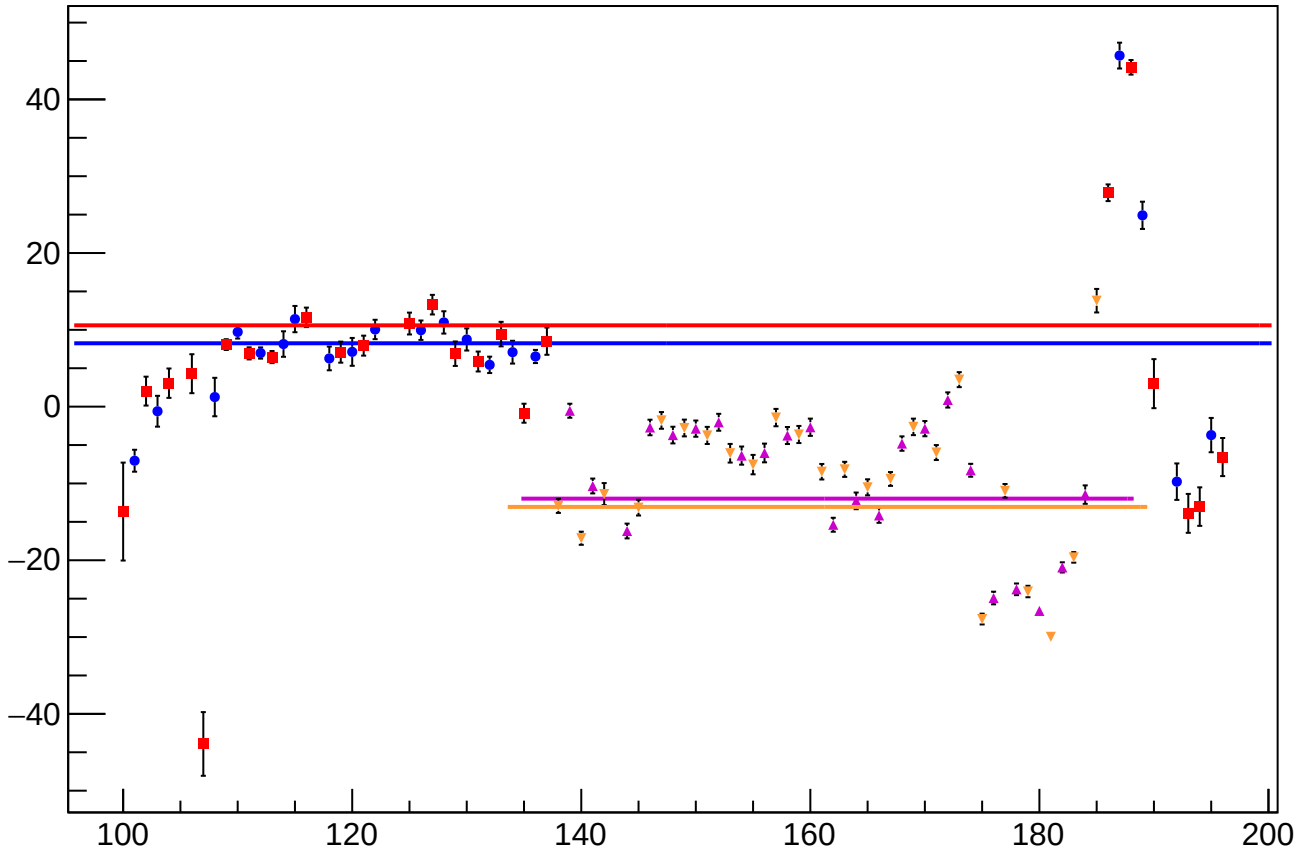
Left: -39.685+/-0.009 $\chi^2$/NDF: 236604.6/46

Right: -41.306+/-0.018 $\chi^2$/NDF: 62342.9/43

In: -39.860+/-0.012 $\chi^2$/NDF:128330.6/42

Out: -40.240+/-0.012 $\chi^2$/NDF:176677.7/47

All: -40.051+/-0.008 $\chi^2$/NDF: 305526.4/90




Right In: 8.249+/-0.295 $\chi^2$/NDF: 843.0/19

Left Out: -13.054+/-0.193 $\chi^2$/NDF:2868.1/23

Right Out: 10.585+/-0.269 $\chi^2$/NDF: 2149.6/23

Left In: -11.978+/-0.195 $\chi^2$/NDF:2176.6/22

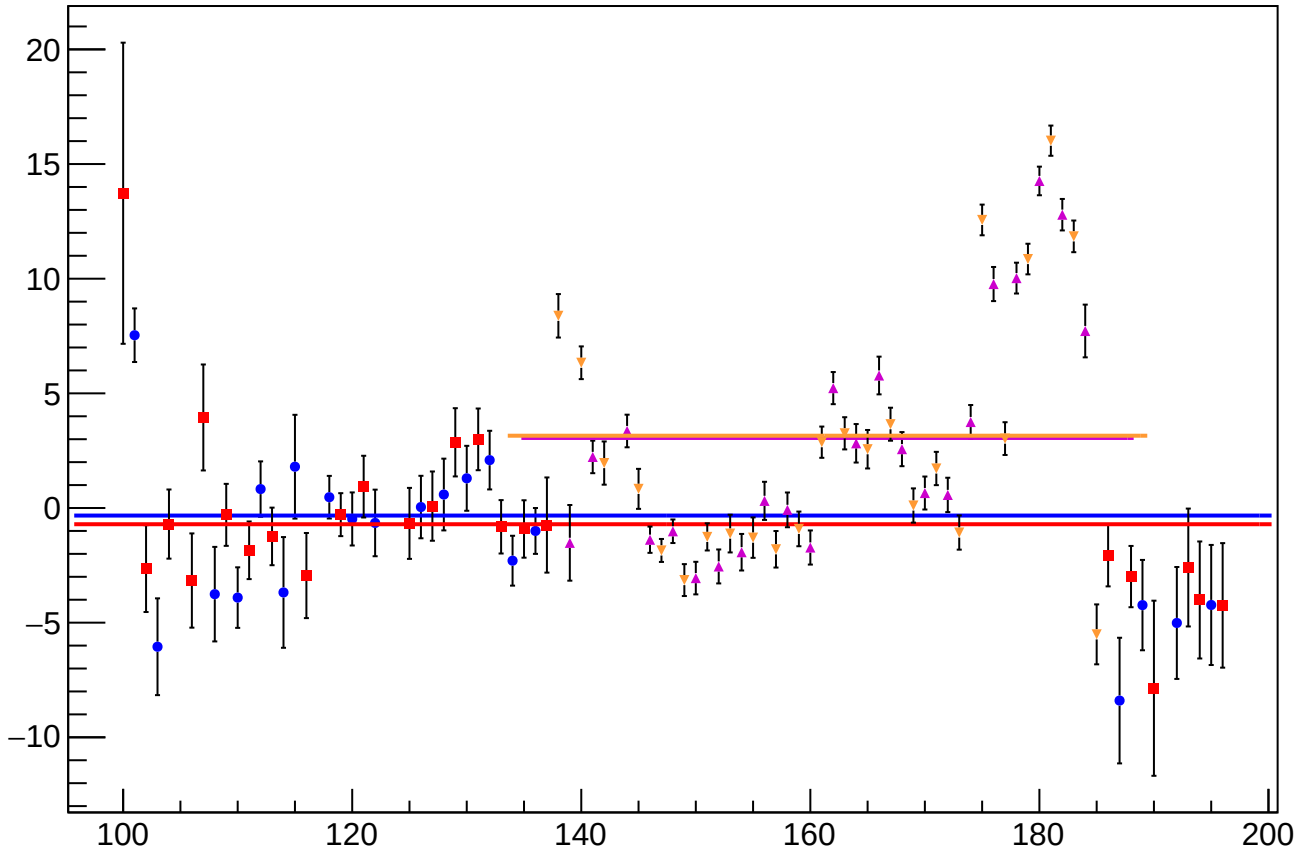
Left: -12.524+/-0.137 $\chi^2$/NDF: 5060.1/46

Right: 9.522+/-0.199 $\chi^2$/NDF: 3026.8/43

In: -5.801+/-0.163 $\chi^2$/NDF:6289.2/42

Out: -5.050+/-0.157 $\chi^2$/NDF:10109.5/47

All: -5.411+/-0.113 $\chi^2$/NDF: 16409.8/90




Right In: -0.329+/-0.319 $\chi^2$/NDF: 94.8/19

Left Out: 3.153+/-0.149 $\chi^2$/NDF:1385.1/23

Right Out: -0.707+/-0.315 $\chi^2$/NDF: 40.6/23

Left In: 3.055+/-0.152 $\chi^2$/NDF:1145.0/22

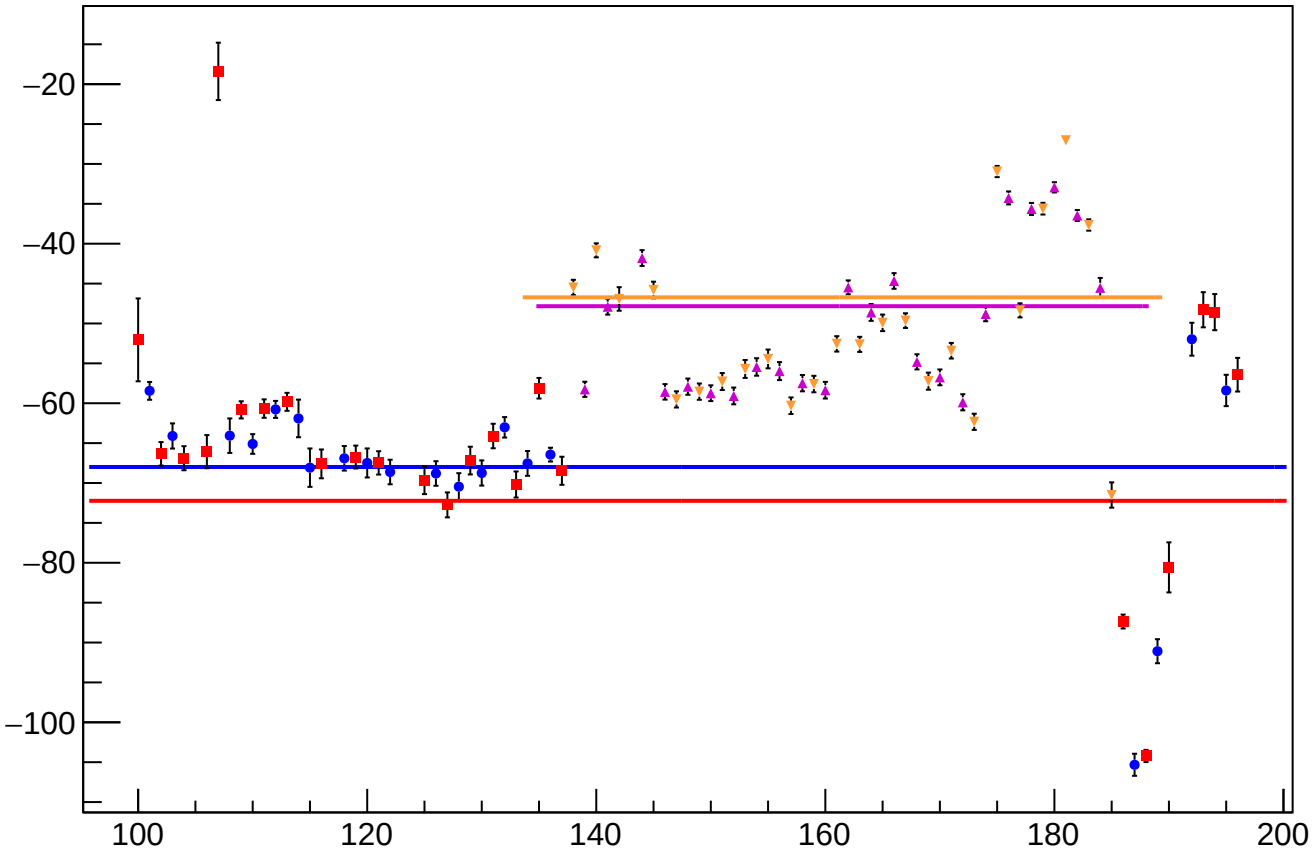
Left: 3.105+/-0.106 $\chi^2$/NDF: 2530.3/46

Right: -0.521+/-0.224 $\chi^2$/NDF: 136.1/43

In: 2.430+/-0.137 $\chi^2$/NDF:1331.4/42

Out: 2.448+/-0.135 $\chi^2$/NDF:1548.1/47

All: 2.439+/-0.096 $\chi^2$/NDF: 2879.5/90




Right In: -67.992+/-0.325 $\chi^2$/NDF: 1211.2/19

Left Out: -46.724+/-0.192 $\chi^2$/NDF:3446.1/23

Right Out: -72.233+/-0.296 $\chi^2$/NDF: 3141.2/23

Left In: -47.835+/-0.194 $\chi^2$/NDF:2557.6/22

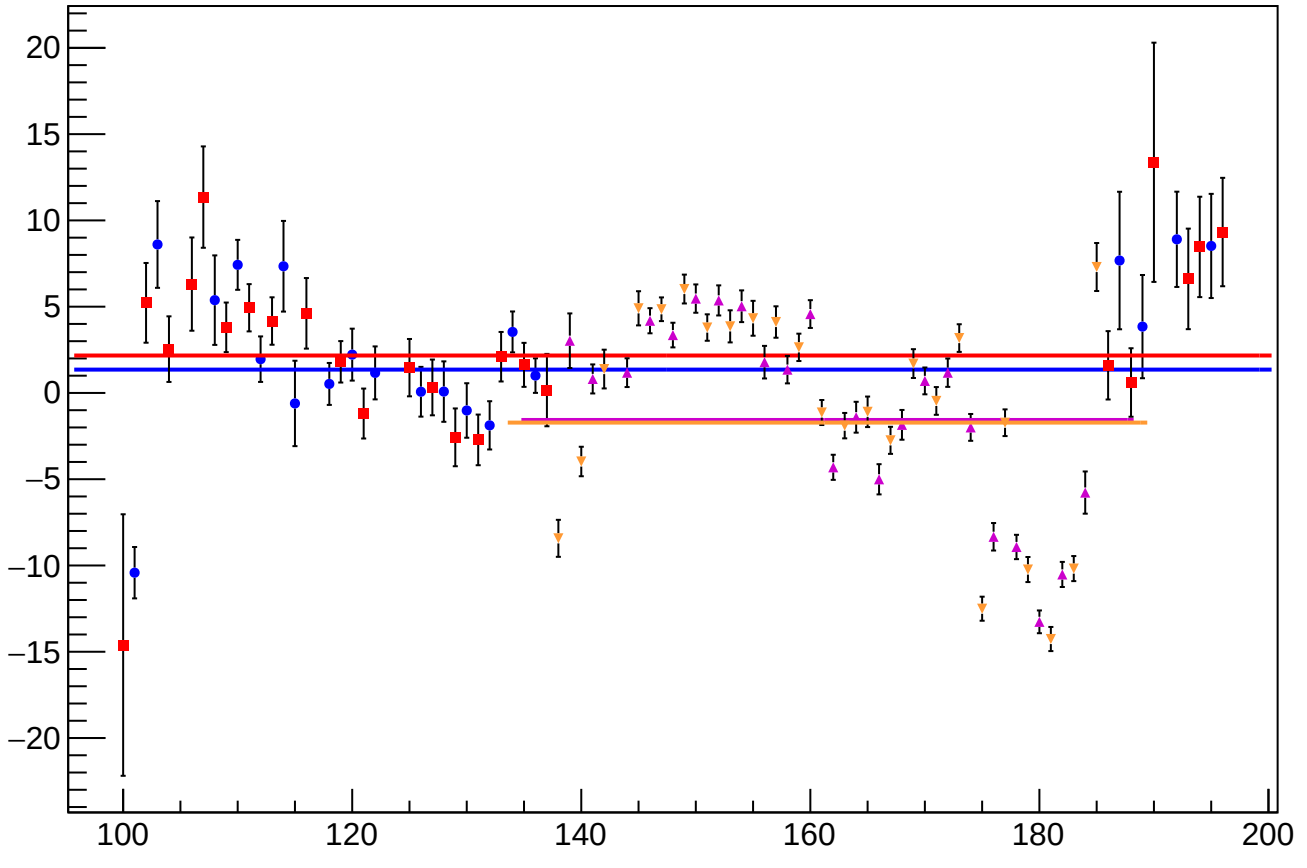
Left: -47.273+/-0.136 $\chi^2$/NDF: 6020.3/46

Right: -70.316+/-0.219 $\chi^2$/NDF: 4445.4/43

In: -53.113+/-0.167 $\chi^2$/NDF:6599.8/42

Out: -54.268+/-0.161 $\chi^2$/NDF:11832.1/47

All: -53.711+/-0.116 $\chi^2$/NDF: 18456.8/90




Right In: 1.352+/-0.365 $\chi^2$/NDF: 126.4/19

Left Out: -1.718+/-0.168 $\chi^2$/NDF:1406.1/23

Right Out: 2.169+/-0.366 $\chi^2$/NDF: 70.4/23

Left In: -1.567+/-0.171 $\chi^2$/NDF:1117.7/22

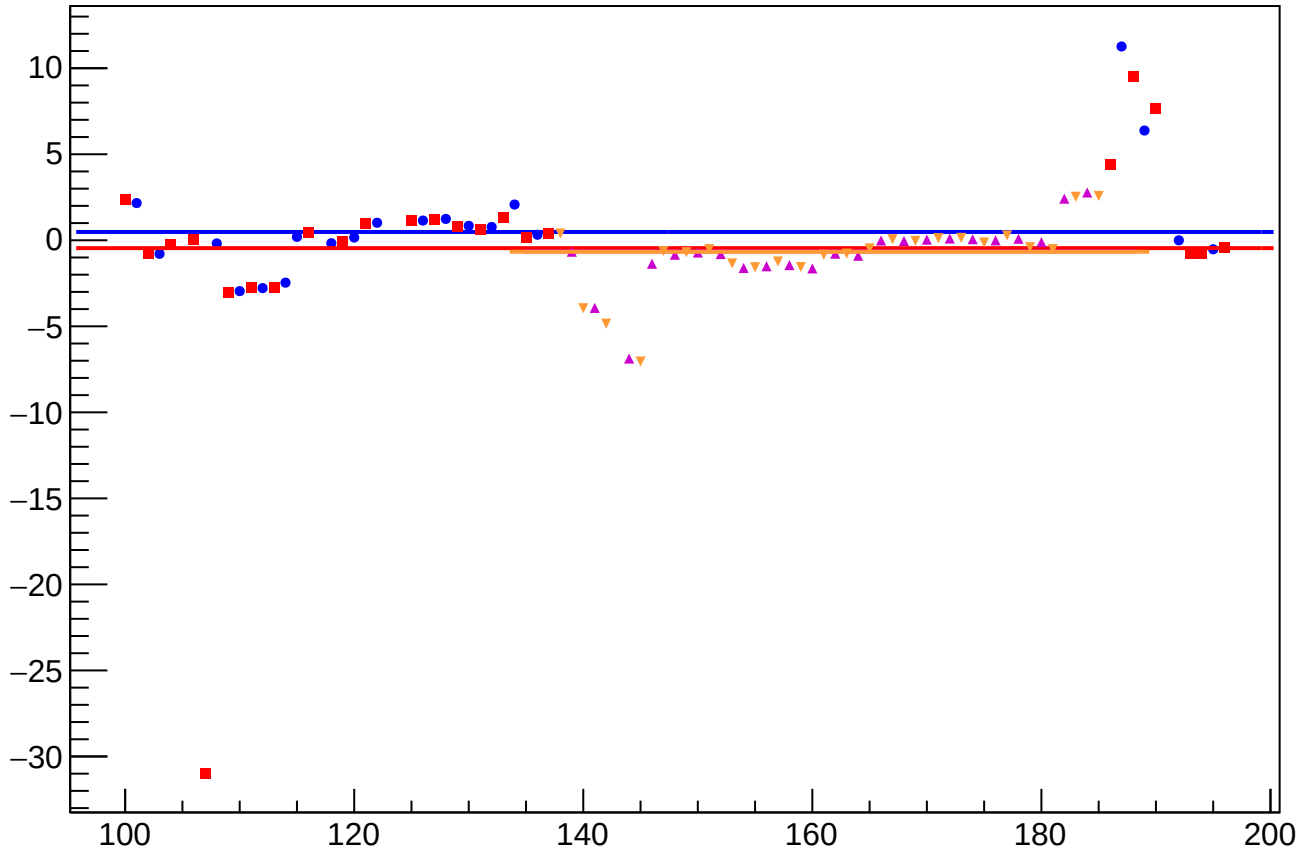
Left: -1.644+/-0.120 $\chi^2$/NDF: 2524.2/46

Right: 1.760+/-0.259 $\chi^2$/NDF: 199.3/43

In: -1.043+/-0.155 $\chi^2$/NDF:1296.6/42

Out: -1.044+/-0.153 $\chi^2$/NDF:1569.6/47

All: -1.044+/-0.109 $\chi^2$/NDF: 2866.2/90




Right In: 0.483+/-0.020 $\chi^2$/NDF: 9551.5/19

Left Out: -0.666+/-0.008 $\chi^2$/NDF:55276.7/23

Right Out: -0.458+/-0.020 $\chi^2$/NDF: 59938.3/23

Left In: -0.646+/-0.008 $\chi^2$/NDF:45569.5/22

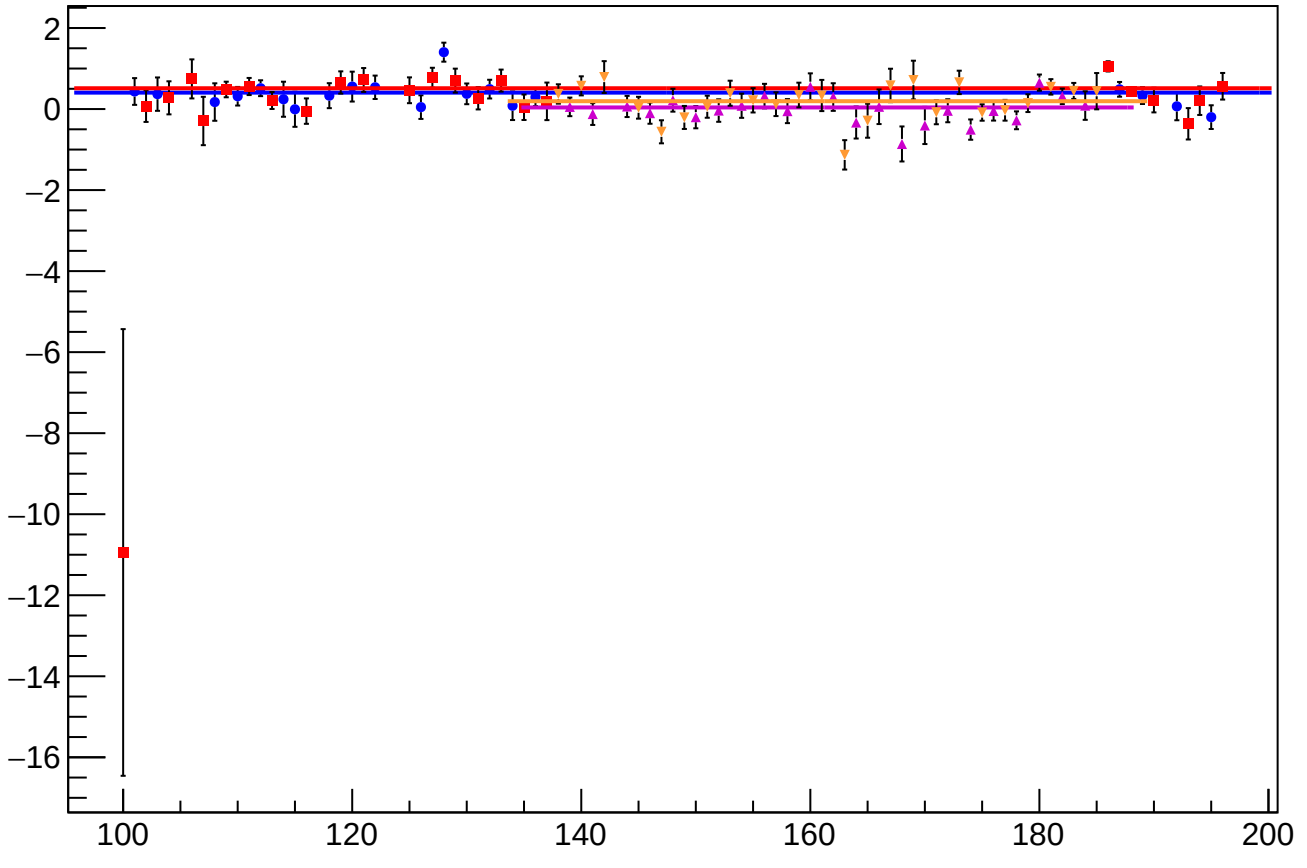
Left: -0.656+/-0.005 $\chi^2$/NDF: 100849.5/46

Right: 0.015+/-0.014 $\chi^2$/NDF: 70630.4/43

In: -0.501+/-0.007 $\chi^2$/NDF:57997.5/42

Out: -0.639+/-0.007 $\chi^2$/NDF:115311.7/47

All: -0.570+/-0.005 $\chi^2$/NDF: 173502.7/90




Right In: 0.405+/-0.061 $\chi^2$/NDF: 28.6/19

Left Out: 0.194+/-0.057 $\chi^2$/NDF:44.2/23

Right Out: 0.513+/-0.050 $\chi^2$/NDF: 45.4/23

Left In: 0.039+/-0.058 $\chi^2$/NDF:30.5/22

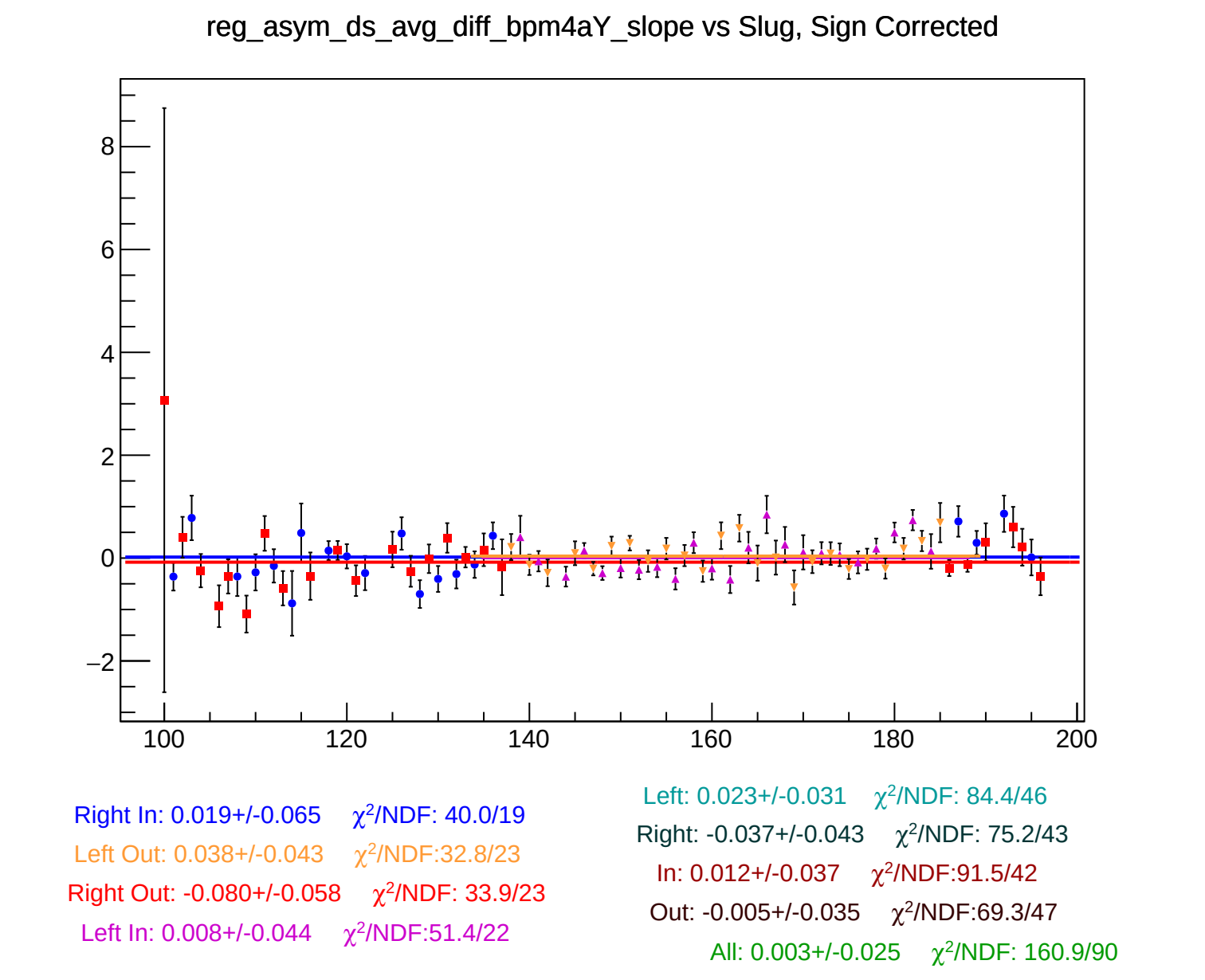
Left: 0.118+/-0.040 $\chi^2$/NDF: 78.4/46

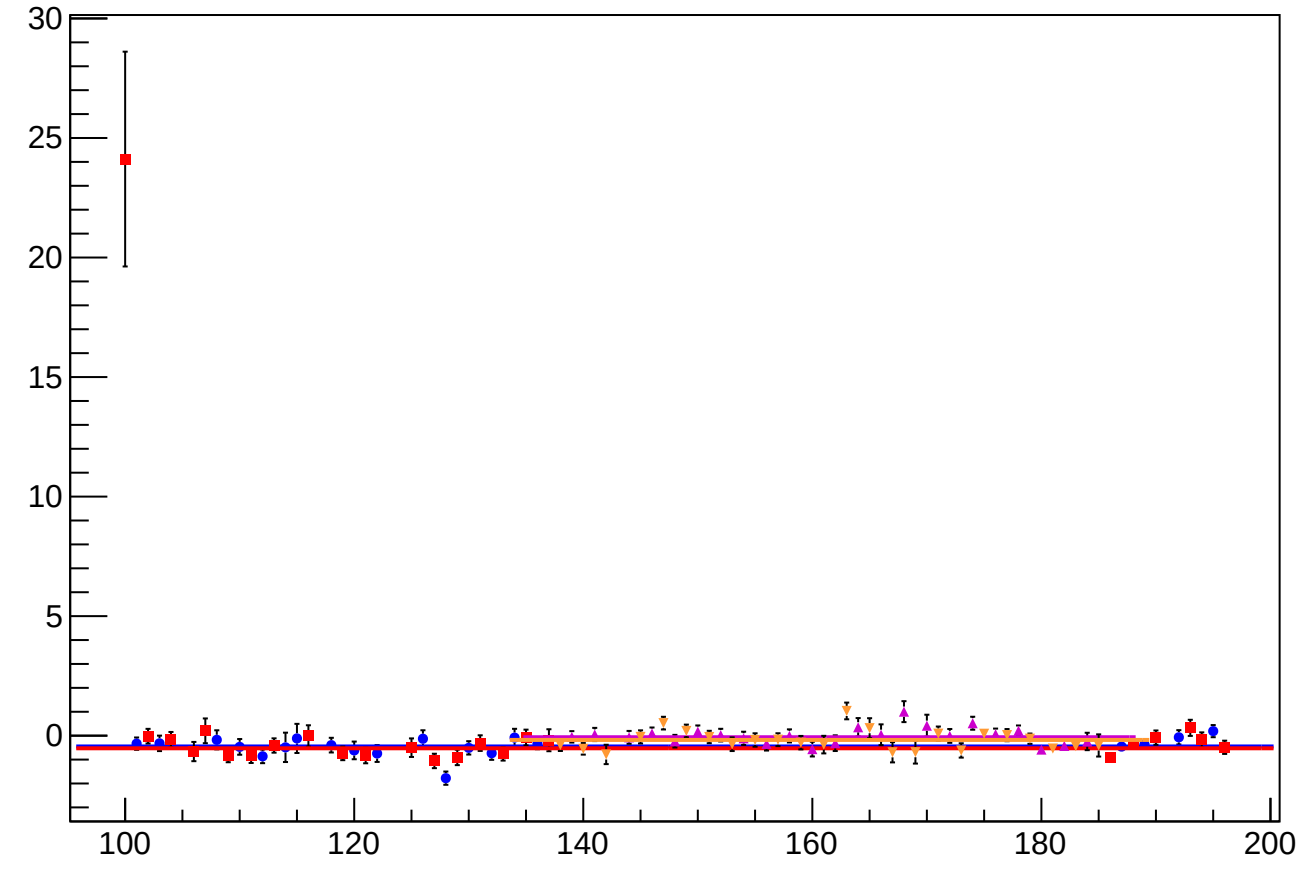
Right: 0.469+/-0.039 $\chi^2$/NDF: 75.9/43

In: 0.213+/-0.042 $\chi^2$/NDF:78.3/42

Out: 0.373+/-0.038 $\chi^2$/NDF:107.3/47

All: 0.301+/-0.028 $\chi^2$/NDF: 193.7/90


reg_asym_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
8
6
4
2
0
−2
100
120
140
160
180
200
Right In: 0.019+/-0.065 χ²/NDF: 40.0/19
Left Out: 0.038+/-0.043 χ²/NDF:32.8/23
Right Out: -0.080+/-0.058 χ²/NDF: 33.9/23
Left In: 0.008+/-0.044 χ²/NDF:51.4/22
Left: 0.023+/-0.031 χ²/NDF: 84.4/46
Right: -0.037+/-0.043 χ²/NDF: 75.2/43
In: 0.012+/-0.037 χ²/NDF:91.5/42
Out: -0.005+/-0.035 χ²/NDF:69.3/47
All: 0.003+/-0.025 χ²/NDF: 160.9/90




Right In: -0.452+/-0.062 $\chi^2$/NDF: 38.4/19

Left Out: -0.178+/-0.056 $\chi^2$/NDF:42.1/23

Right Out: -0.528+/-0.048 $\chi^2$/NDF: 75.0/23

Left In: -0.066+/-0.057 $\chi^2$/NDF:31.4/22

Left: -0.123+/-0.040 $\chi^2$/NDF: 75.5/46

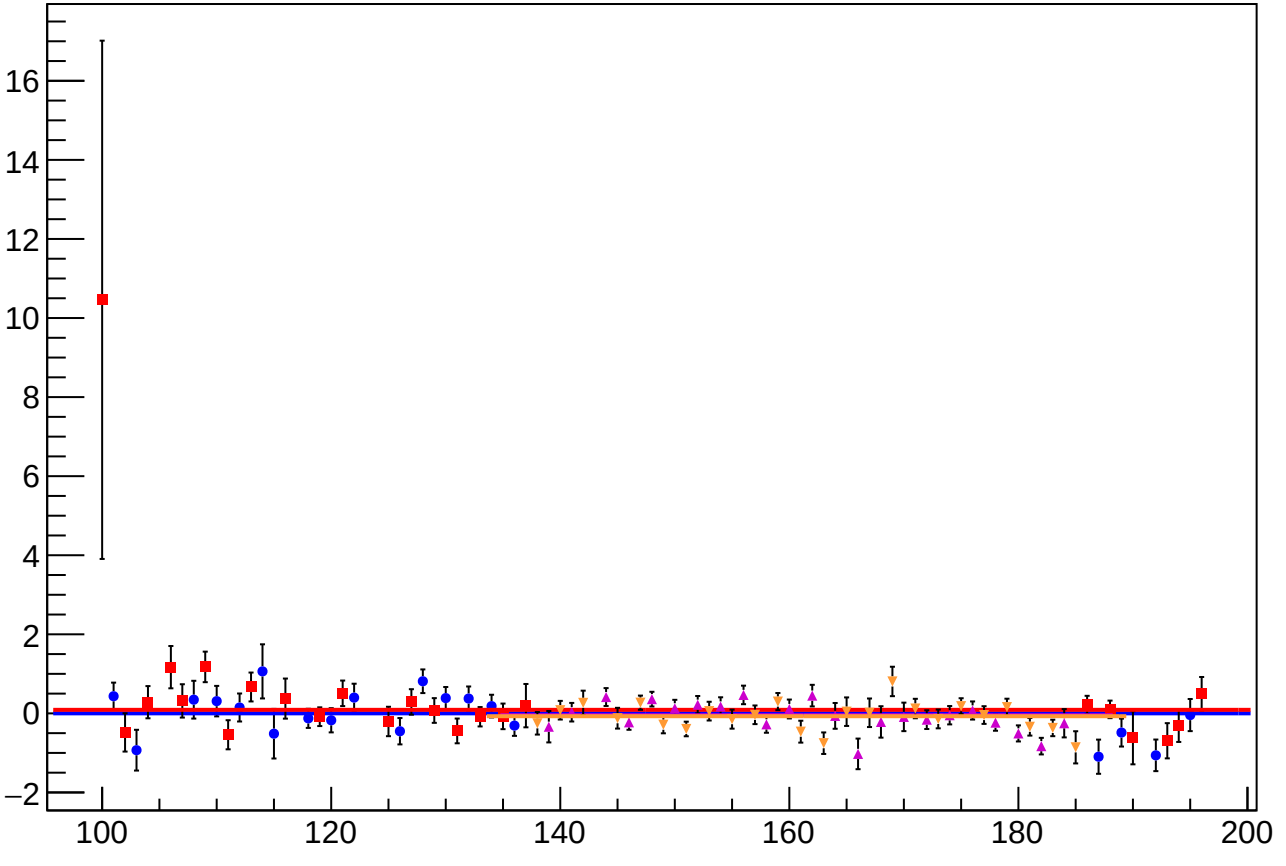
Right: -0.499+/-0.038 $\chi^2$/NDF: 114.3/43

In: -0.243+/-0.042 $\chi^2$/NDF:90.9/42

Out: -0.381+/-0.036 $\chi^2$/NDF:139.6/47

All: -0.322+/-0.027 $\chi^2$/NDF: 236.7/90

reg_asym_ds_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 0.001+/-0.077 $\chi^2$/NDF: 41.0/19

Left Out: -0.072+/-0.049 $\chi^2$/NDF:37.7/23

Right Out: 0.090+/-0.071 $\chi^2$/NDF: 35.5/23

Left In: -0.047+/-0.050 $\chi^2$/NDF:50.5/22

Left: -0.060+/-0.035 $\chi^2$/NDF: 88.3/46

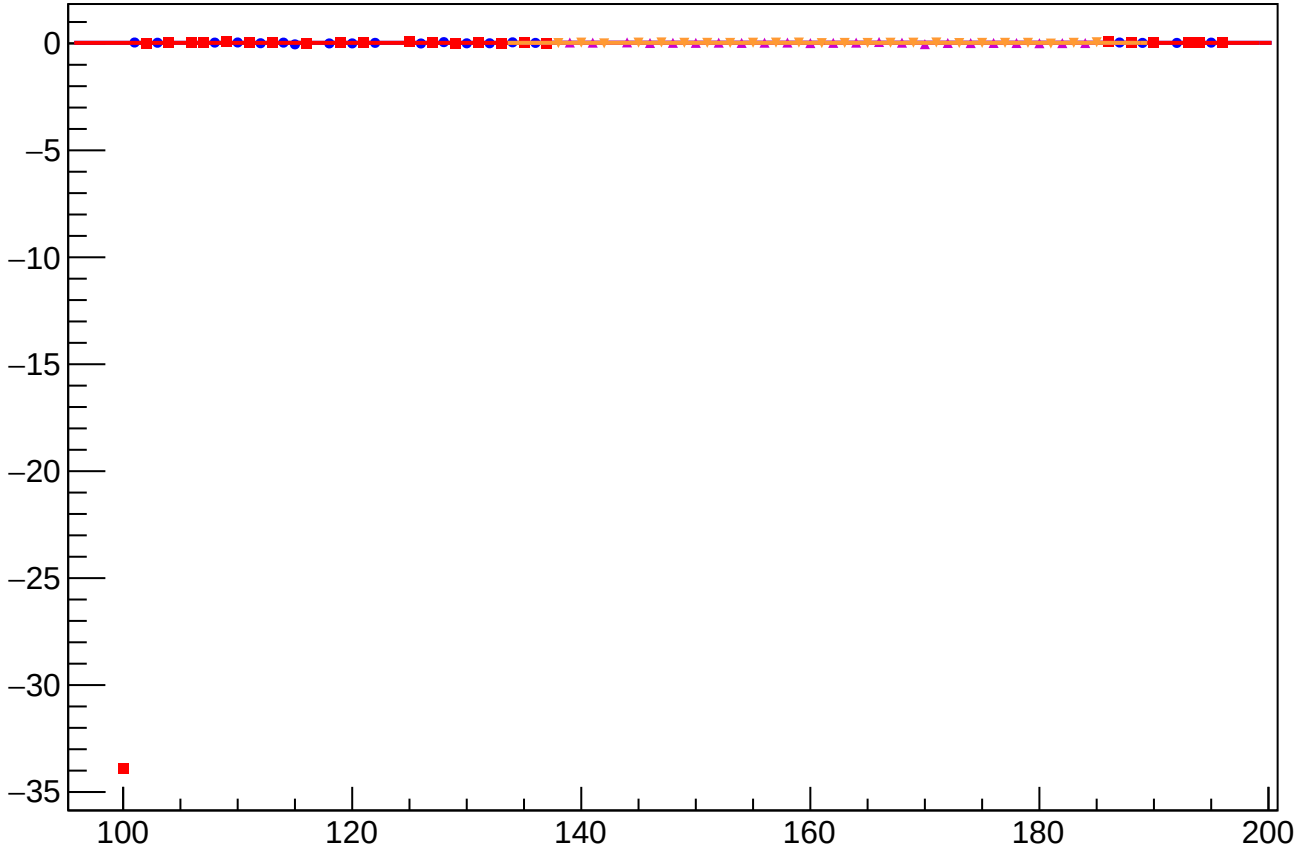
Right: 0.049+/-0.052 $\chi^2$/NDF: 77.1/43

In: -0.033+/-0.042 $\chi^2$/NDF:91.7/42

Out: -0.019+/-0.041 $\chi^2$/NDF:76.6/47

All: -0.026+/-0.029 $\chi^2$/NDF: 168.4/90

reg_asym_ds_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.028+/-0.004 $\chi^2$/NDF: 15.5/19

Left Out: 0.026+/-0.002 $\chi^2$/NDF:31.4/23

Right Out: 0.025+/-0.004 $\chi^2$/NDF: 22304.6/23

Left In: 0.026+/-0.002 $\chi^2$/NDF:39.5/22

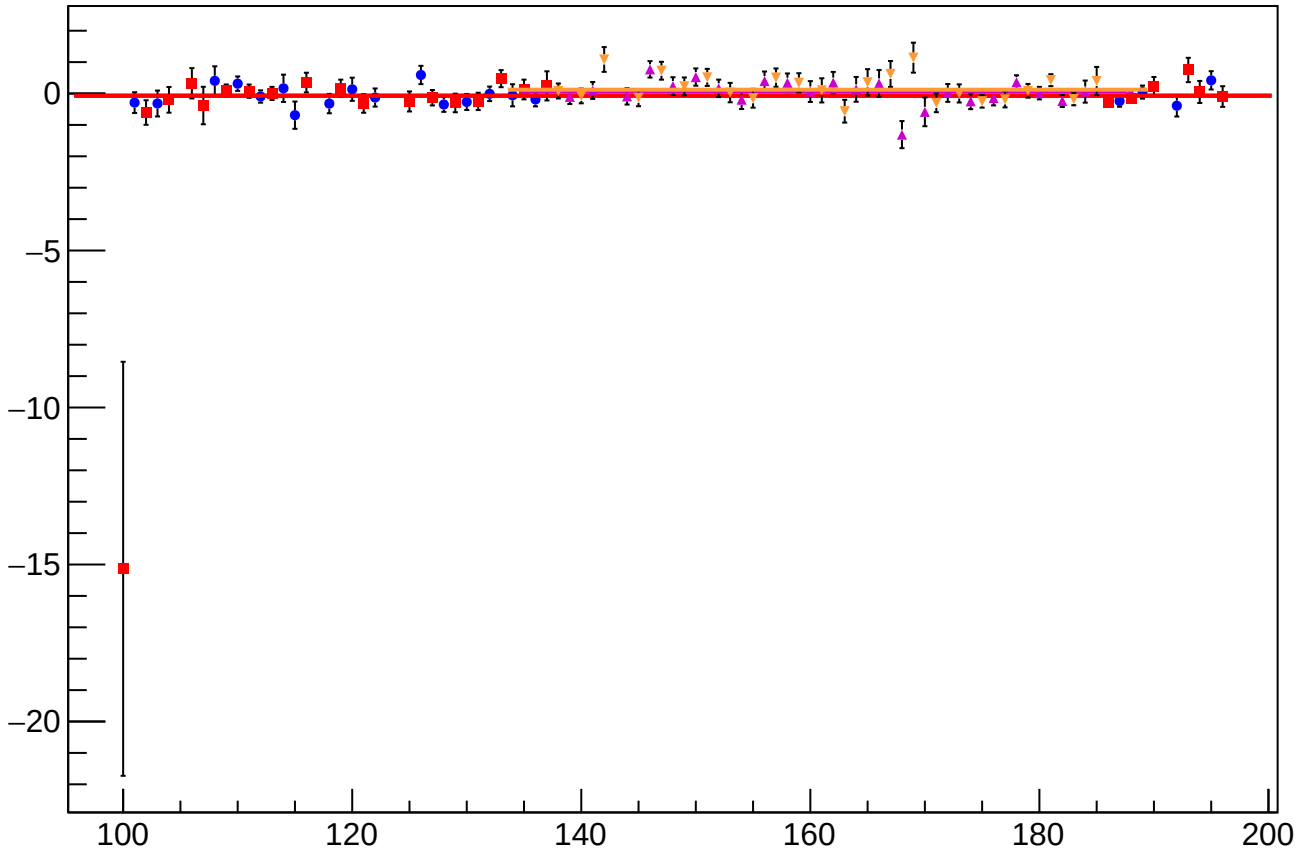
Left: 0.026+/-0.002 $\chi^2$/NDF: 70.9/46

Right: 0.026+/-0.003 $\chi^2$/NDF: 22320.4/43

In: 0.027+/-0.002 $\chi^2$/NDF:55.2/42

Out: 0.026+/-0.002 $\chi^2$/NDF:22336.1/47

All: 0.026+/-0.001 $\chi^2$/NDF: 22391.3/90




Right In: -0.068+/-0.061 $\chi^2$/NDF: 20.4/19

Left Out: 0.122+/-0.057 $\chi^2$/NDF:39.6/23

Right Out: -0.071+/-0.050 $\chi^2$/NDF: 28.5/23

Left In: 0.063+/-0.058 $\chi^2$/NDF:34.2/22

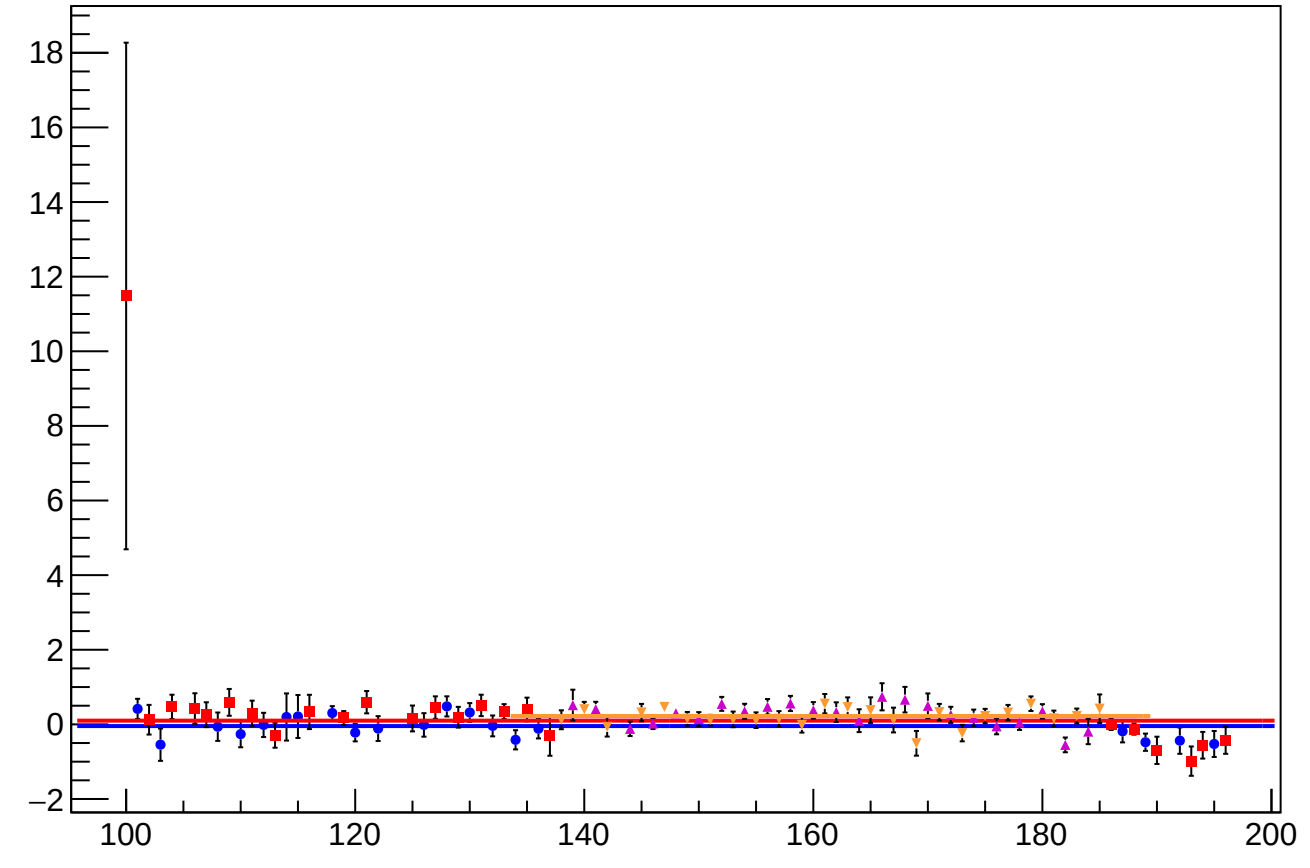
Left: 0.093+/-0.040 $\chi^2$/NDF: 74.4/46

Right: -0.070+/-0.039 $\chi^2$/NDF: 48.9/43

In: 0.001+/-0.042 $\chi^2$/NDF:57.1/42

Out: 0.014+/-0.038 $\chi^2$/NDF:74.6/47

All: 0.008+/-0.028 $\chi^2$/NDF: 131.7/90




Right In: -0.046+/-0.065 $\chi^2$/NDF: 24.1/19

Left Out: 0.225+/-0.043 $\chi^2$/NDF:24.1/23

Right Out: 0.100+/-0.058 $\chi^2$/NDF: 38.6/23

Left In: 0.221+/-0.044 $\chi^2$/NDF:39.3/22

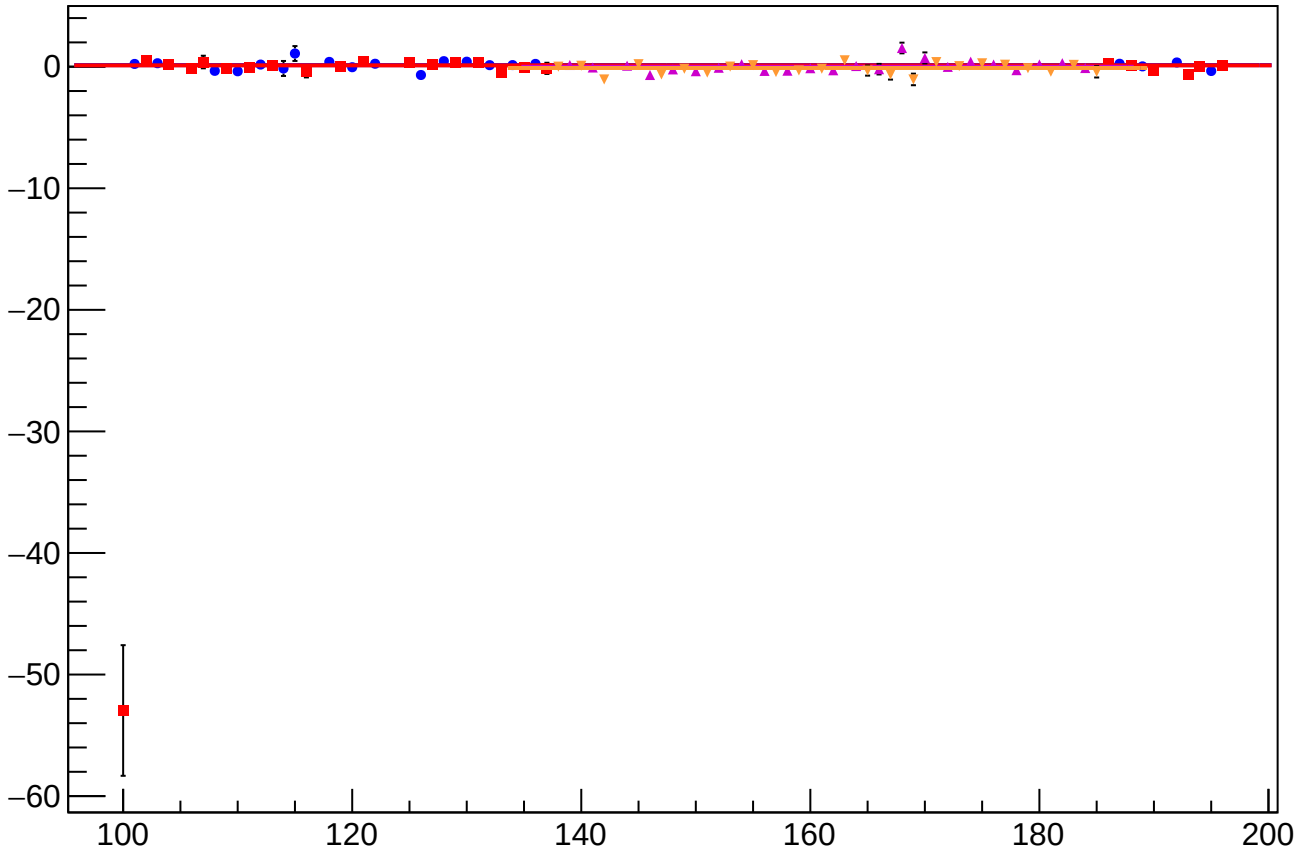
Left: 0.223+/-0.031 $\chi^2$/NDF: 63.4/46

Right: 0.036+/-0.043 $\chi^2$/NDF: 65.4/43

In: 0.137+/-0.037 $\chi^2$/NDF:74.8/42

Out: 0.180+/-0.035 $\chi^2$/NDF:65.7/47

All: 0.160+/-0.025 $\chi^2$/NDF: 141.3/90




Right In: 0.131+/-0.062 $\chi^2$/NDF: 20.8/19

Left Out: -0.105+/-0.056 $\chi^2$/NDF:37.6/23

Right Out: 0.111+/-0.048 $\chi^2$/NDF: 118.4/23

Left In: -0.009+/-0.057 $\chi^2$/NDF:38.0/22

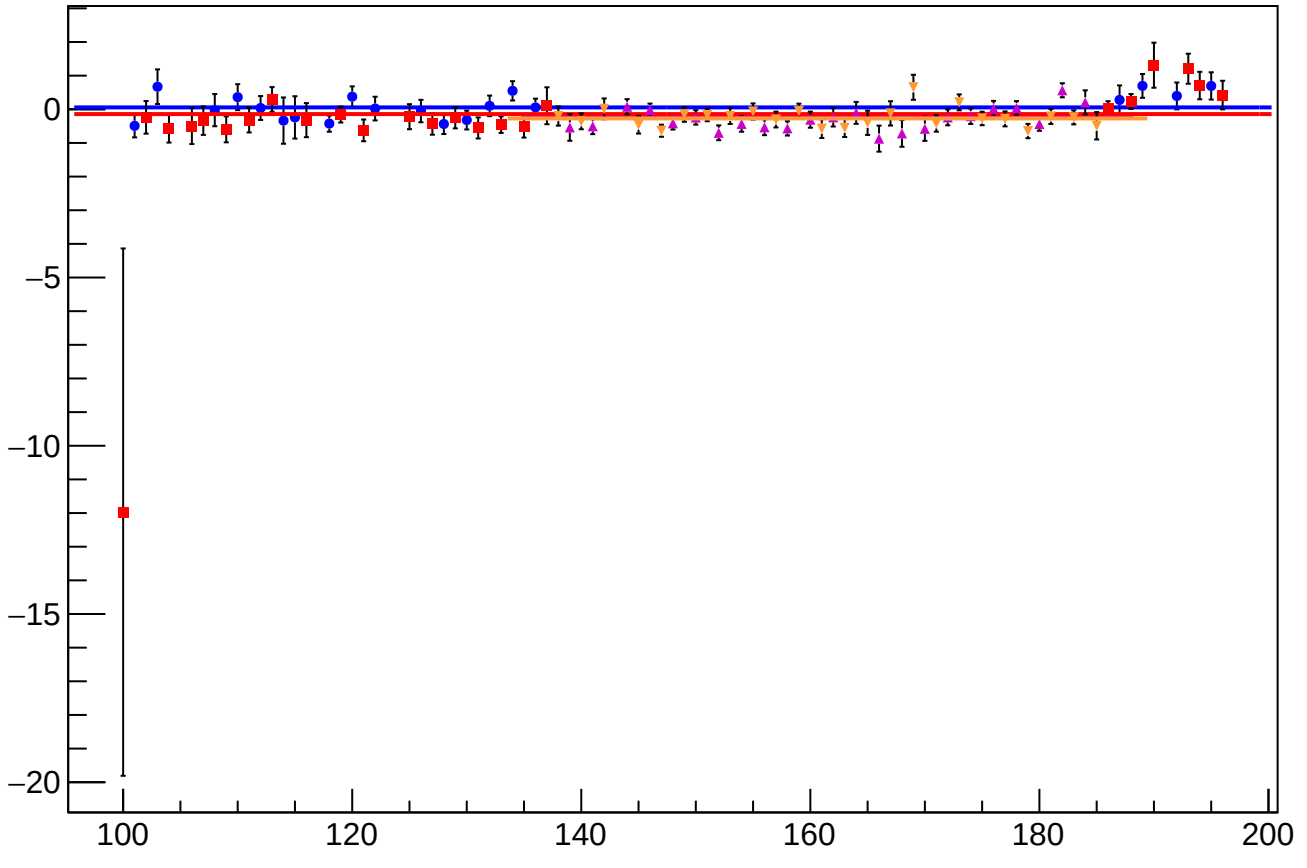
Left: -0.058+/-0.040 $\chi^2$/NDF: 77.0/46

Right: 0.119+/-0.038 $\chi^2$/NDF: 139.2/43

In: 0.055+/-0.042 $\chi^2$/NDF:61.5/42

Out: 0.021+/-0.036 $\chi^2$/NDF:164.5/47

All: 0.035+/-0.027 $\chi^2$/NDF: 226.5/90




Right In: 0.056+/-0.077 $\chi^2$/NDF: 24.5/19

Left Out: -0.272+/-0.049 $\chi^2$/NDF:24.8/23

Right Out: -0.143+/-0.071 $\chi^2$/NDF: 38.7/23

Left In: -0.254+/-0.050 $\chi^2$/NDF:40.6/22

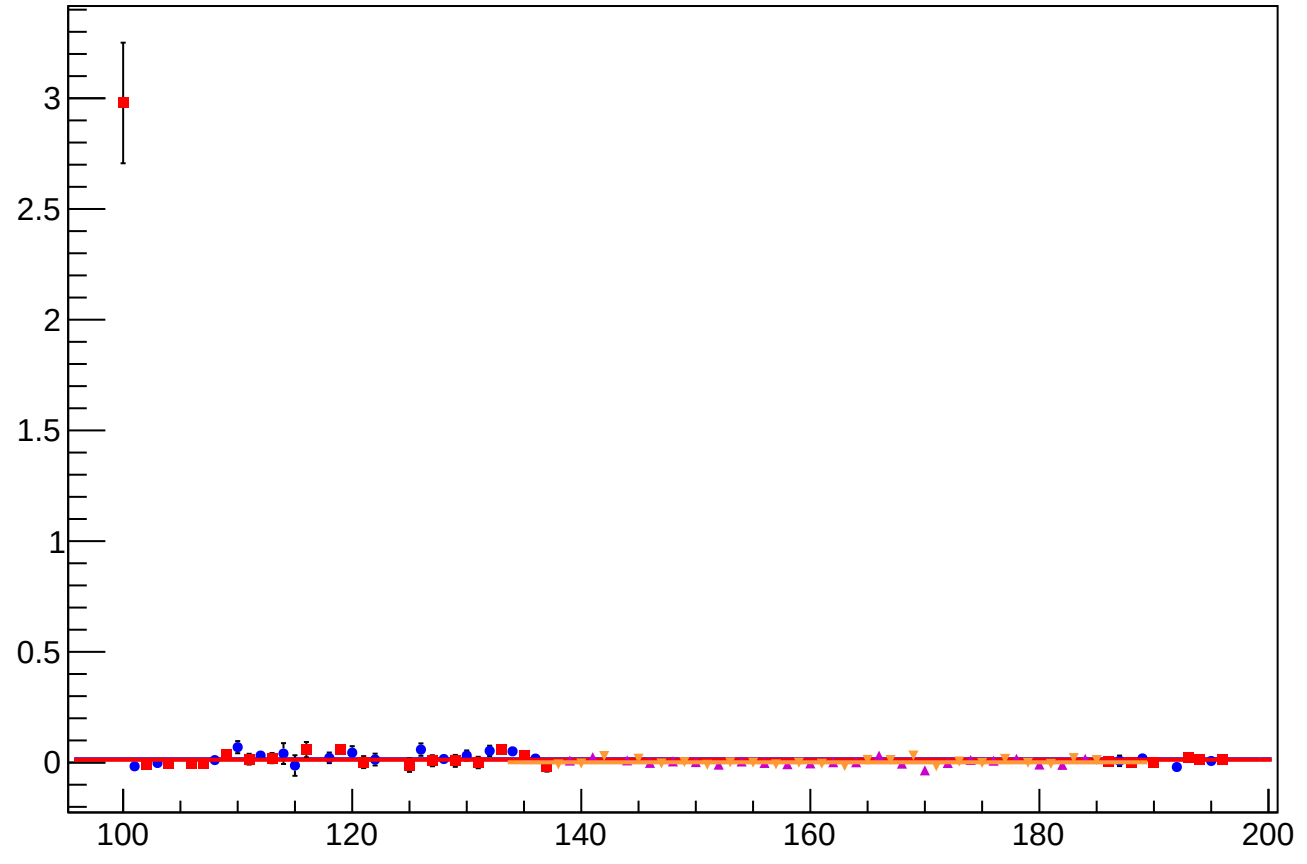
Left: -0.263+/-0.035 $\chi^2$/NDF: 65.5/46

Right: -0.051+/-0.052 $\chi^2$/NDF: 66.8/43

In: -0.162+/-0.042 $\chi^2$/NDF:76.5/42

Out: -0.230+/-0.041 $\chi^2$/NDF:65.7/47

All: -0.197+/-0.029 $\chi^2$/NDF: 143.6/90




Right In: 0.015+/-0.004 $\chi^2$/NDF: 32.5/19

Left Out: 0.001+/-0.002 $\chi^2$/NDF:26.7/23

Right Out: 0.013+/-0.004 $\chi^2$/NDF: 143.2/23

Left In: 0.002+/-0.002 $\chi^2$/NDF:24.6/22

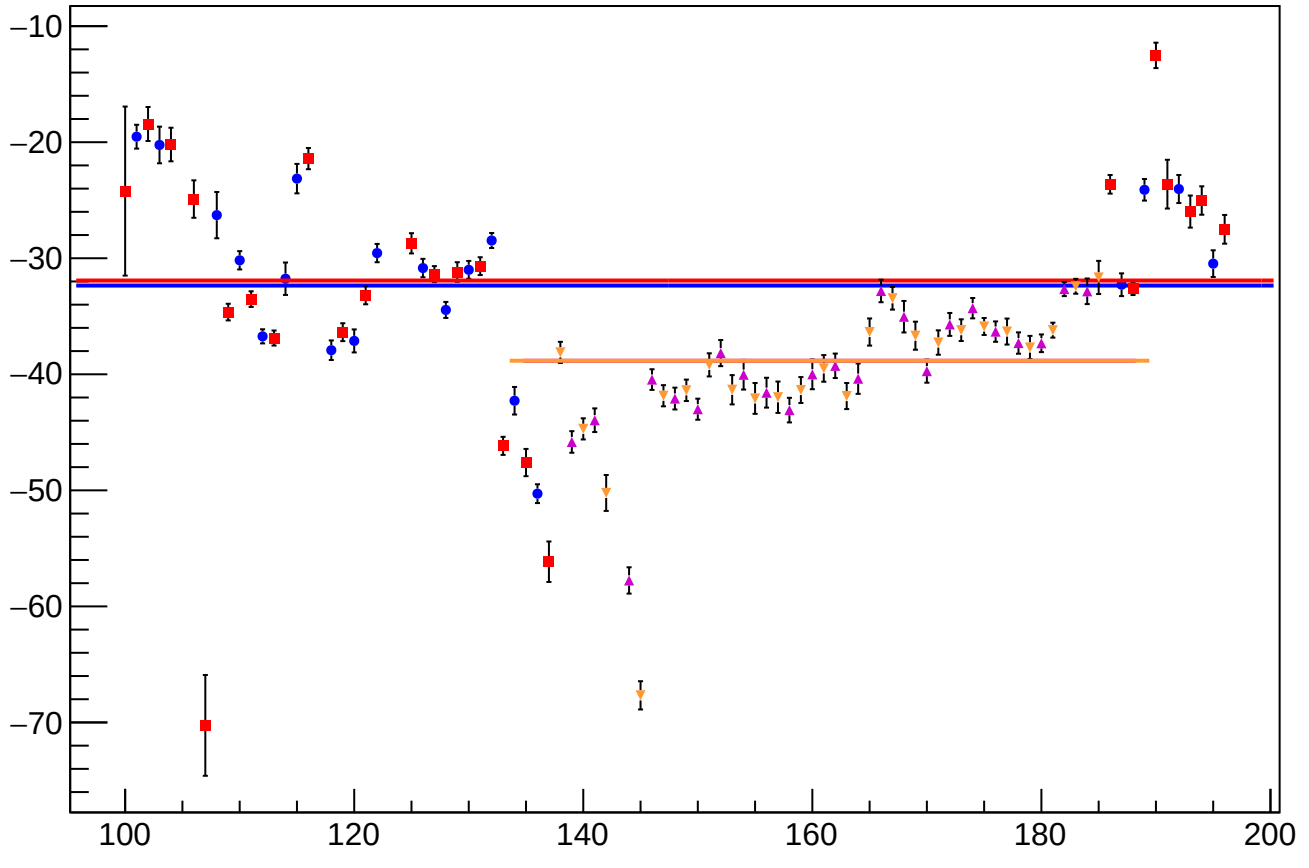
Left: 0.002+/-0.002 $\chi^2$/NDF: 51.5/46

Right: 0.014+/-0.003 $\chi^2$/NDF: 175.8/43

In: 0.005+/-0.002 $\chi^2$/NDF:64.7/42

Out: 0.004+/-0.002 $\chi^2$/NDF:177.2/47

All: 0.005+/-0.001 $\chi^2$/NDF: 242.0/90




Right In: -32.353+/-0.201 $\chi^2$/NDF: 1156.0/19

Left Out: -38.829+/-0.202 $\chi^2$/NDF:917.0/23

Right Out: -31.919+/-0.184 $\chi^2$/NDF: 1720.5/24

Left In: -38.837+/-0.203 $\chi^2$/NDF:653.4/22

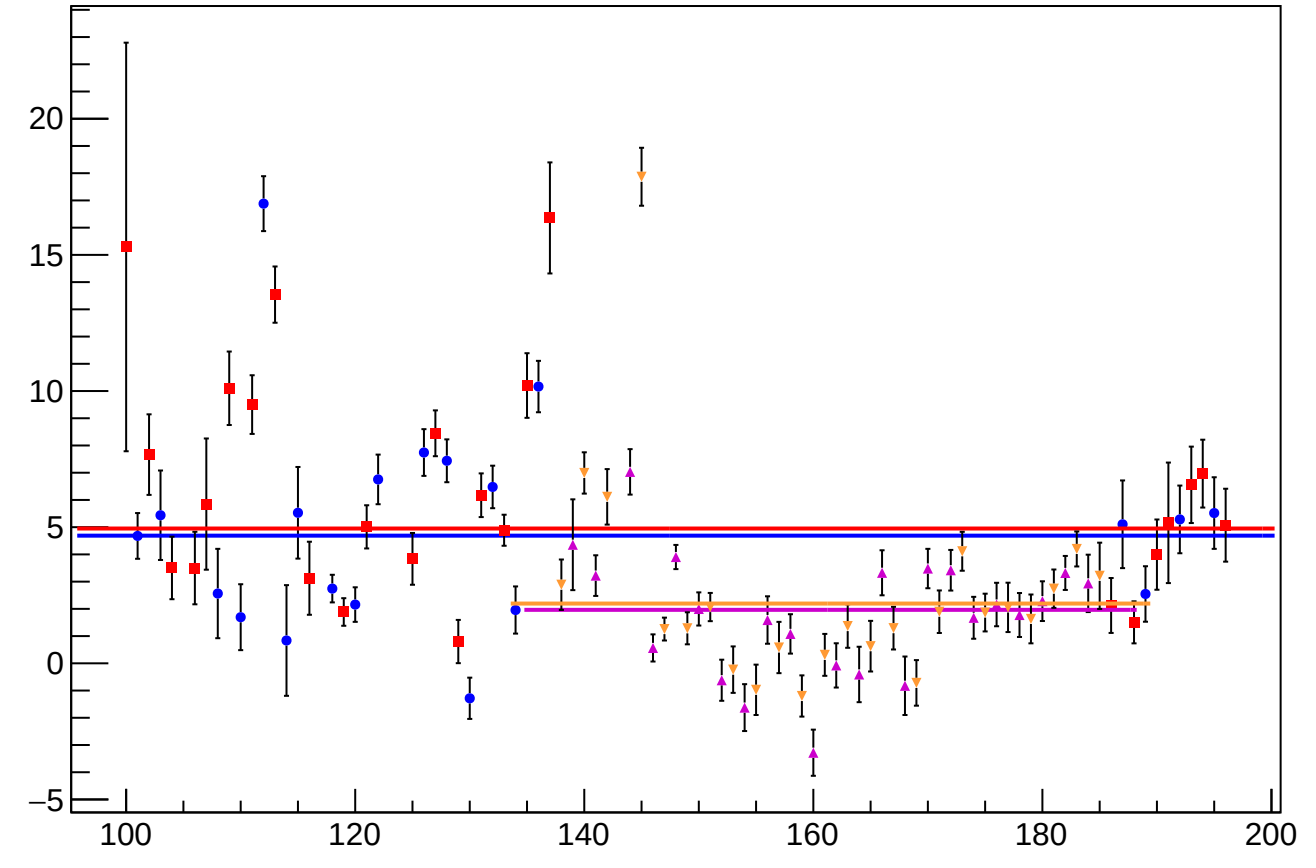
Left: -38.833+/-0.143 $\chi^2$/NDF: 1570.4/46

Right: -32.117+/-0.136 $\chi^2$/NDF: 2879.1/44

In: -35.561+/-0.143 $\chi^2$/NDF:2323.0/42

Out: -35.058+/-0.136 $\chi^2$/NDF:3275.8/48

All: -35.297+/-0.099 $\chi^2$/NDF: 5605.3/91




Right In: 4.689+/-0.207 $\chi^2$/NDF: 334.8/19

Left Out: 2.195+/-0.152 $\chi^2$/NDF:365.1/23

Right Out: 4.951+/-0.199 $\chi^2$/NDF: 279.7/24

Left In: 1.964+/-0.155 $\chi^2$/NDF:173.2/22

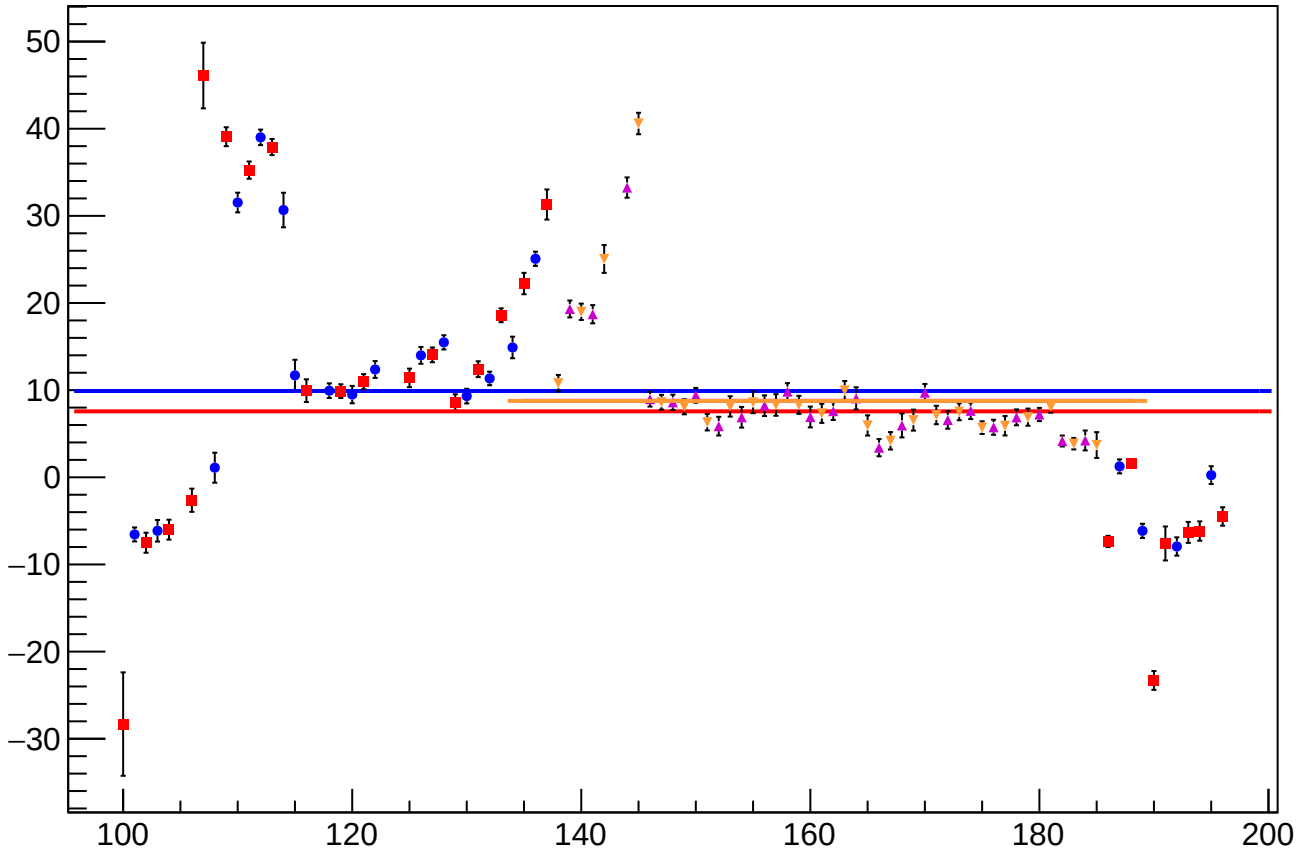
Left: 2.081+/-0.109 $\chi^2$/NDF: 539.4/46

Right: 4.825+/-0.143 $\chi^2$/NDF: 615.2/44

In: 2.942+/-0.124 $\chi^2$/NDF:619.3/42

Out: 3.211+/-0.121 $\chi^2$/NDF:765.6/48

All: 3.080+/-0.087 $\chi^2$/NDF: 1387.3/91




Right In: 9.902+/-0.216 $\chi^2$/NDF: 3474.2/19

Left Out: 8.766+/-0.200 $\chi^2$/NDF:1035.4/23

Right Out: 7.569+/-0.193 $\chi^2$/NDF: 5872.5/24

Left In: 8.773+/-0.201 $\chi^2$/NDF:795.1/22

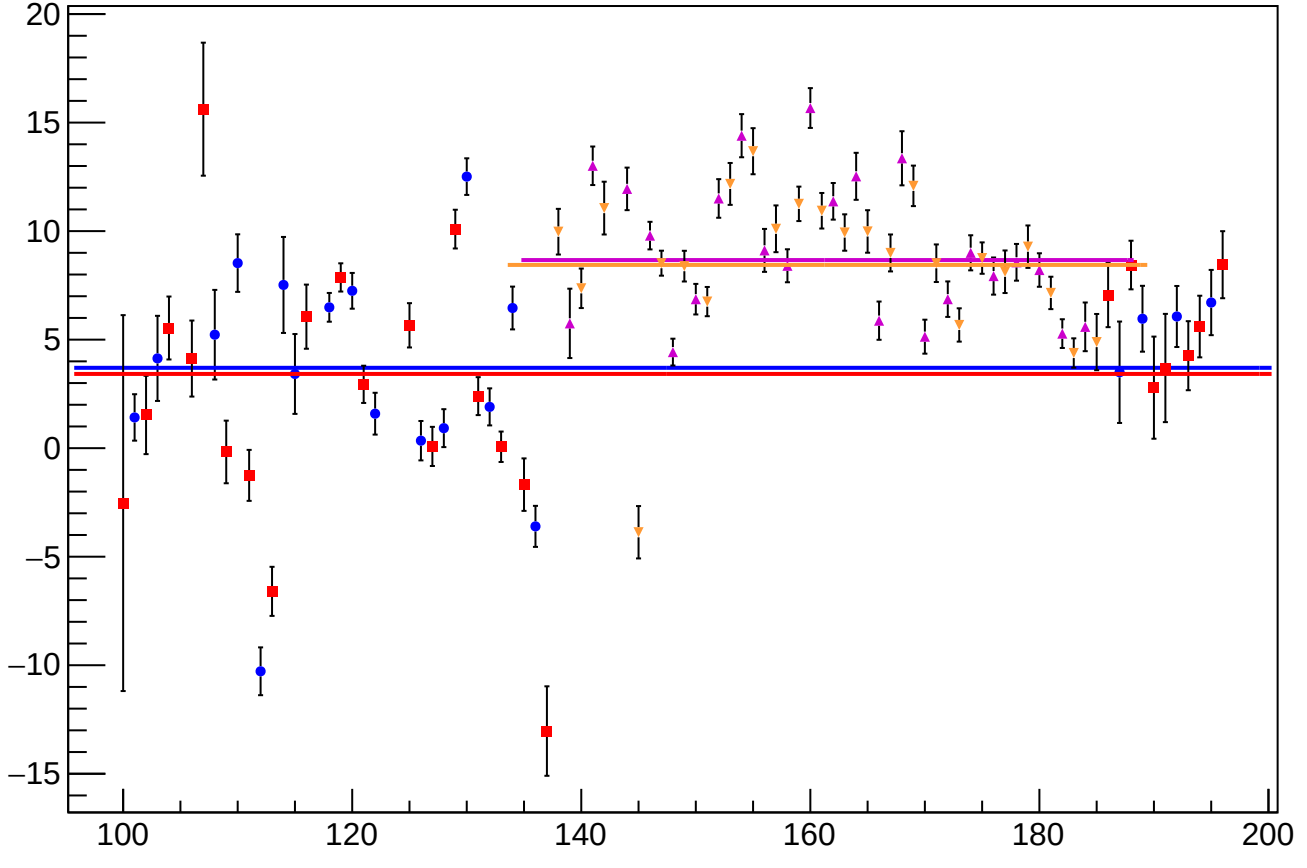
Left: 8.769+/-0.142 $\chi^2$/NDF: 1830.5/46

Right: 8.600+/-0.144 $\chi^2$/NDF: 9411.6/44

In: 9.297+/-0.147 $\chi^2$/NDF:4283.8/42

Out: 8.143+/-0.139 $\chi^2$/NDF:6926.4/48

All: 8.686+/-0.101 $\chi^2$/NDF: 11242.7/91




Right In: 3.702+/-0.242 $\chi^2$/NDF: 437.5/19

Left Out: 8.442+/-0.174 $\chi^2$/NDF:264.2/23

Right Out: 3.420+/-0.236 $\chi^2$/NDF: 390.2/24

Left In: 8.666+/-0.176 $\chi^2$/NDF:304.8/22

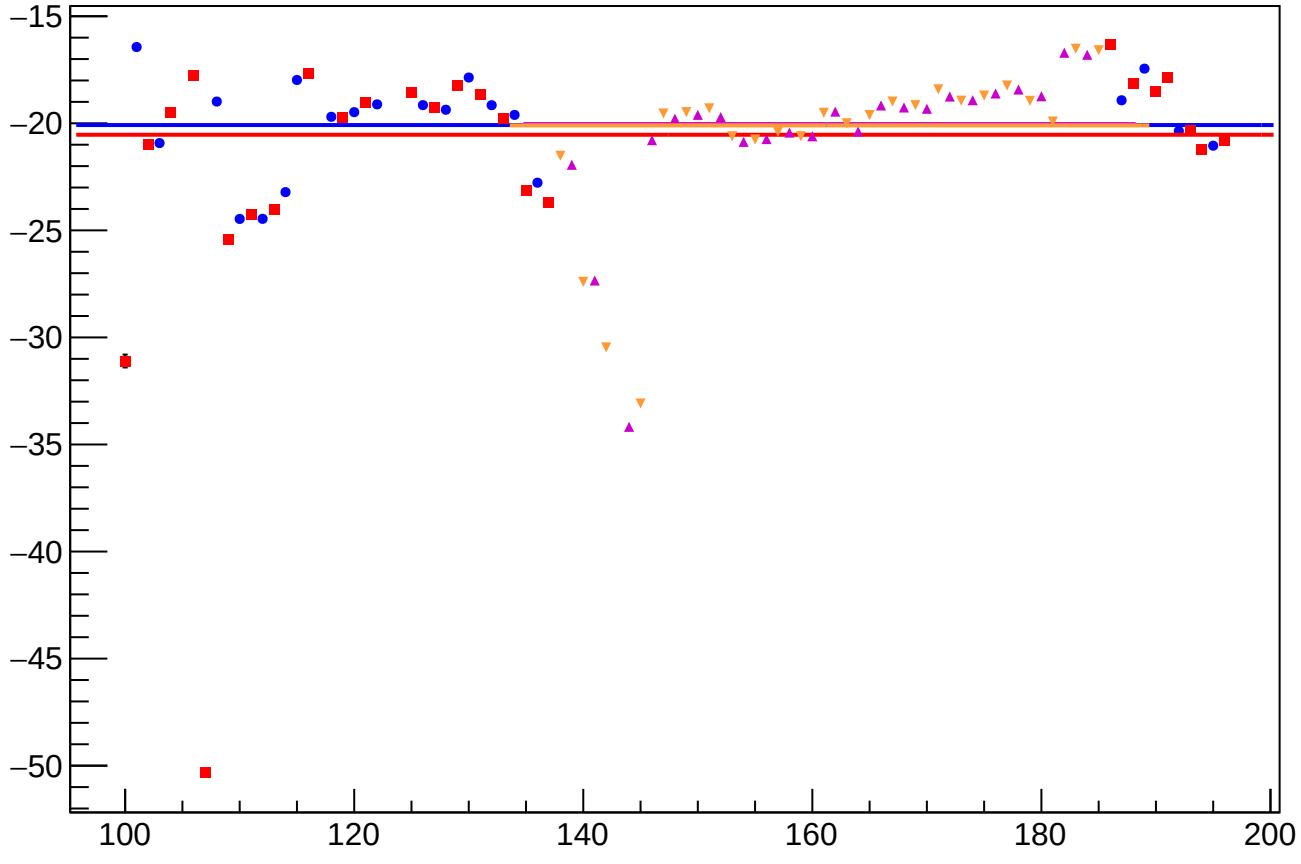
Left: 8.553+/-0.123 $\chi^2$/NDF: 569.8/46

Right: 3.558+/-0.169 $\chi^2$/NDF: 828.4/44

In: 6.951+/-0.142 $\chi^2$/NDF:1018.1/42

Out: 6.676+/-0.140 $\chi^2$/NDF:949.0/48

All: 6.811+/-0.100 $\chi^2$/NDF: 1969.0/91




Right In: -20.081+/-0.014 $\chi^2$/NDF: 22441.8/19

Left Out: -20.096+/-0.008 $\chi^2$/NDF:159293.0/23

Right Out: -20.535+/-0.013 $\chi^2$/NDF: 64884.9/24

Left In: -20.037+/-0.008 $\chi^2$/NDF:132291.6/22

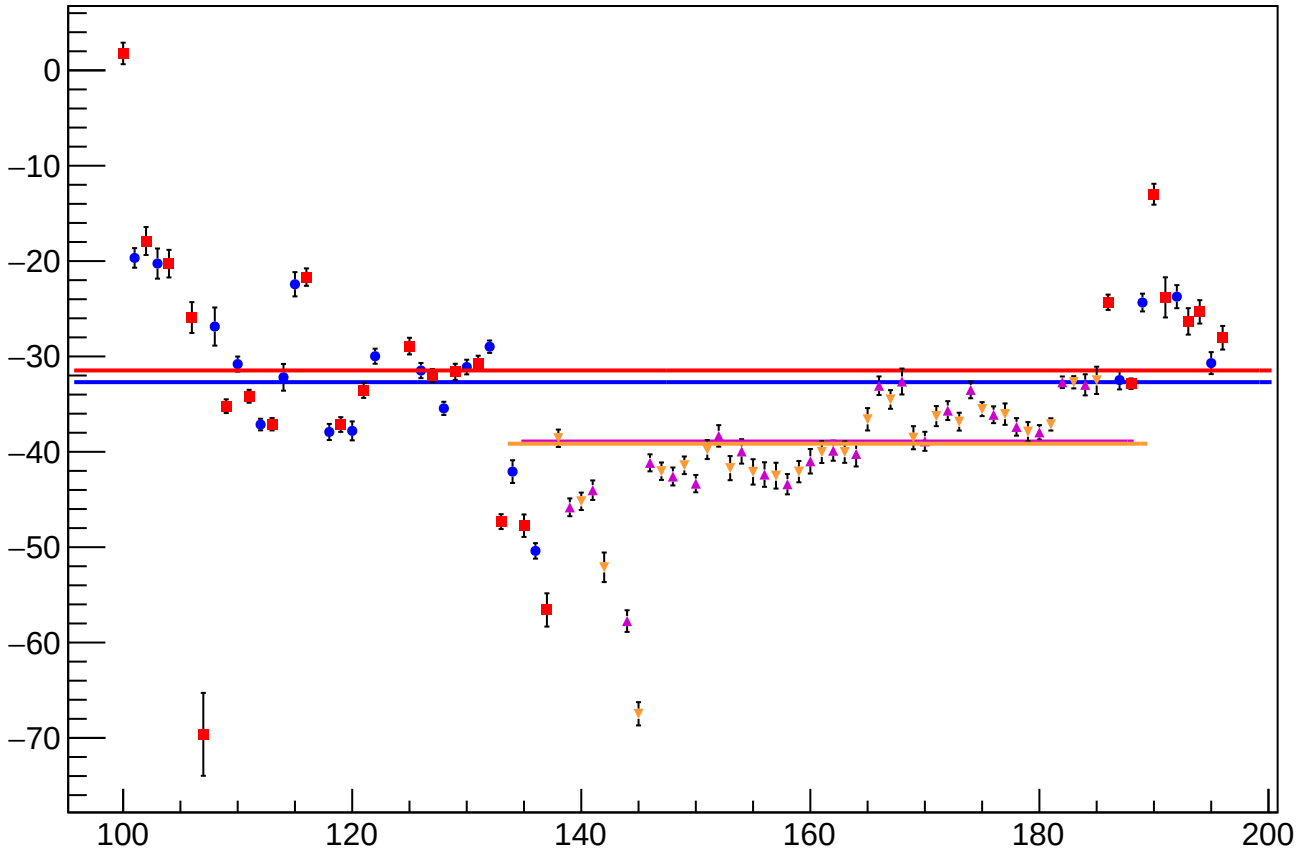
Left: -20.067+/-0.006 $\chi^2$/NDF: 291612.1/46

Right: -20.323+/-0.009 $\chi^2$/NDF: 87904.1/44

In: -20.048+/-0.007 $\chi^2$/NDF:154741.1/42

Out: -20.216+/-0.007 $\chi^2$/NDF:225019.3/48

All: -20.133+/-0.005 $\chi^2$/NDF: 380065.0/91




Right In: -32.695+/-0.202 $\chi^2$/NDF: 1161.4/19

Left Out: -39.148+/-0.202 $\chi^2$/NDF:898.8/23

Right Out: -31.469+/-0.182 $\chi^2$/NDF: 2647.8/24

Left In: -38.921+/-0.204 $\chi^2$/NDF:684.4/22

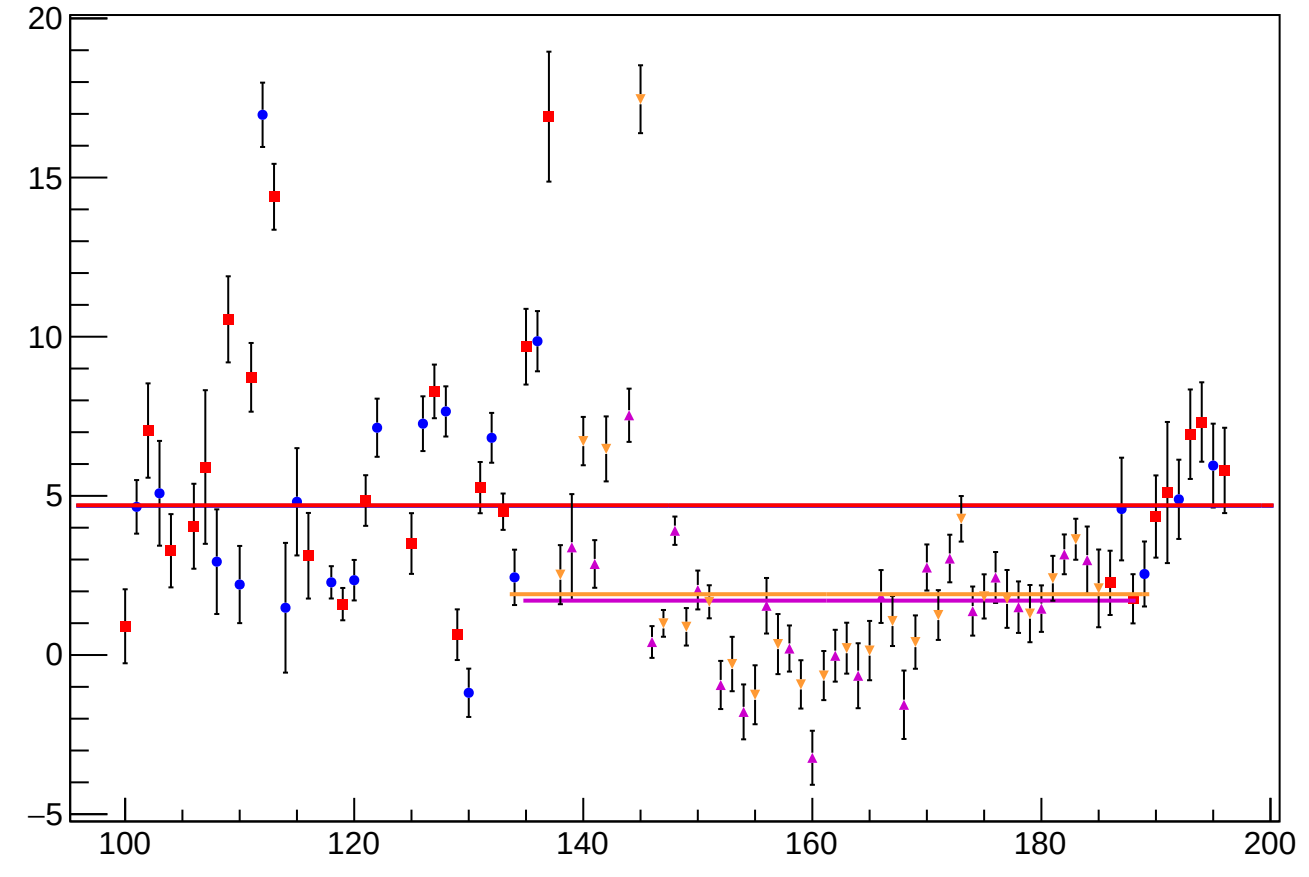
Left: -39.036+/-0.144 $\chi^2$/NDF: 1583.8/46

Right: -32.020+/-0.135 $\chi^2$/NDF: 3829.5/44

In: -35.776+/-0.143 $\chi^2$/NDF:2317.4/42

Out: -34.908+/-0.135 $\chi^2$/NDF:4341.1/48

All: -35.317+/-0.098 $\chi^2$/NDF: 6677.9/91




Right In: 4.689+/-0.207 $\chi^2$/NDF: 331.1/19

Left Out: 1.911+/-0.152 $\chi^2$/NDF:359.3/23

Right Out: 4.704+/-0.197 $\chi^2$/NDF: 301.8/24

Left In: 1.709+/-0.155 $\chi^2$/NDF:182.6/22

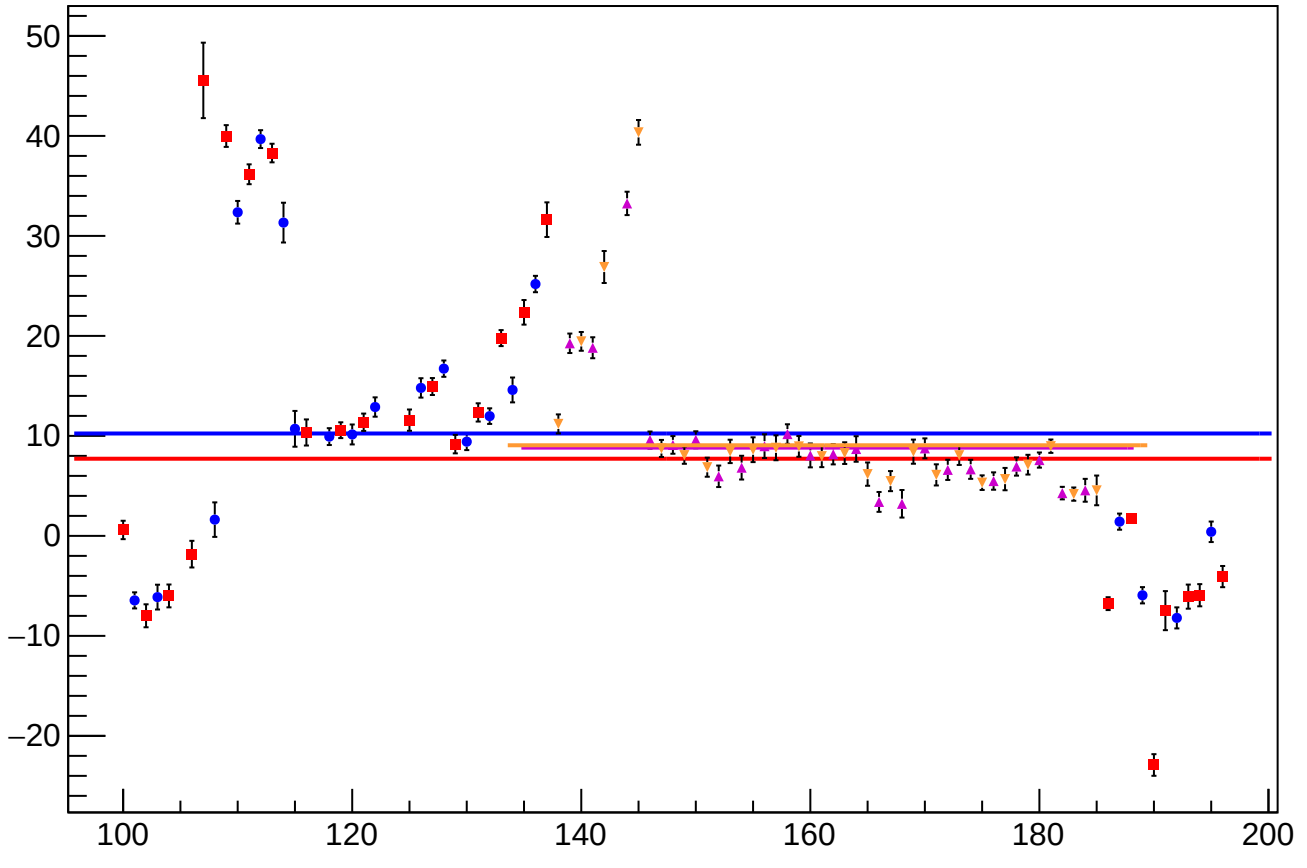
Left: 1.811+/-0.109 $\chi^2$/NDF: 542.8/46

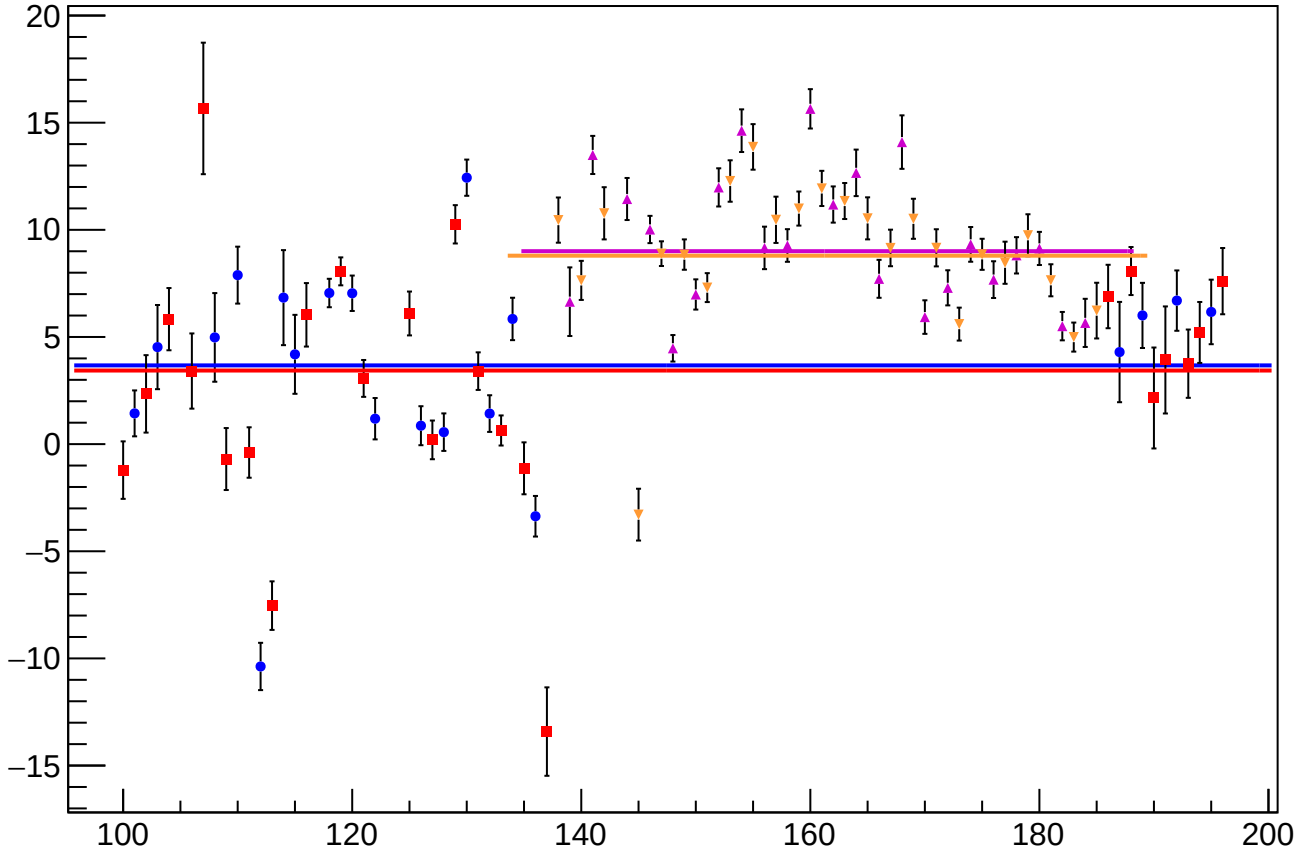
Right: 4.697+/-0.143 $\chi^2$/NDF: 633.0/44

In: 2.778+/-0.124 $\chi^2$/NDF:646.3/42

Out: 2.959+/-0.121 $\chi^2$/NDF:787.1/48

All: 2.871+/-0.086 $\chi^2$/NDF: 1434.5/91


reg_asym_left_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
50
40
30
20
10
0
−10
−20
100
120
140
160
180
200
Right In: 10.240+/-0.217 χ²/NDF: 3565.6/19
Left Out: 9.061+/-0.201 χ²/NDF:1033.5/23
Right Out: 7.716+/-0.189 χ²/NDF: 5987.6/24
Left In: 8.826+/-0.202 χ²/NDF:801.4/22
Left: 8.944+/-0.142 χ²/NDF: 1835.6/46
Right: 8.804+/-0.142 χ²/NDF: 9630.2/44
In: 9.482+/-0.148 χ²/NDF:4389.7/42
Out: 8.347+/-0.138 χ²/NDF:7044.9/48
All: 8.874+/-0.101 χ²/NDF: 11466.2/91




Right In: 3.674+/-0.242 $\chi^2$/NDF: 434.7/19

Left Out: 8.793+/-0.174 $\chi^2$/NDF:244.1/23

Right Out: 3.434+/-0.233 $\chi^2$/NDF: 403.5/24

Left In: 9.004+/-0.176 $\chi^2$/NDF:289.6/22

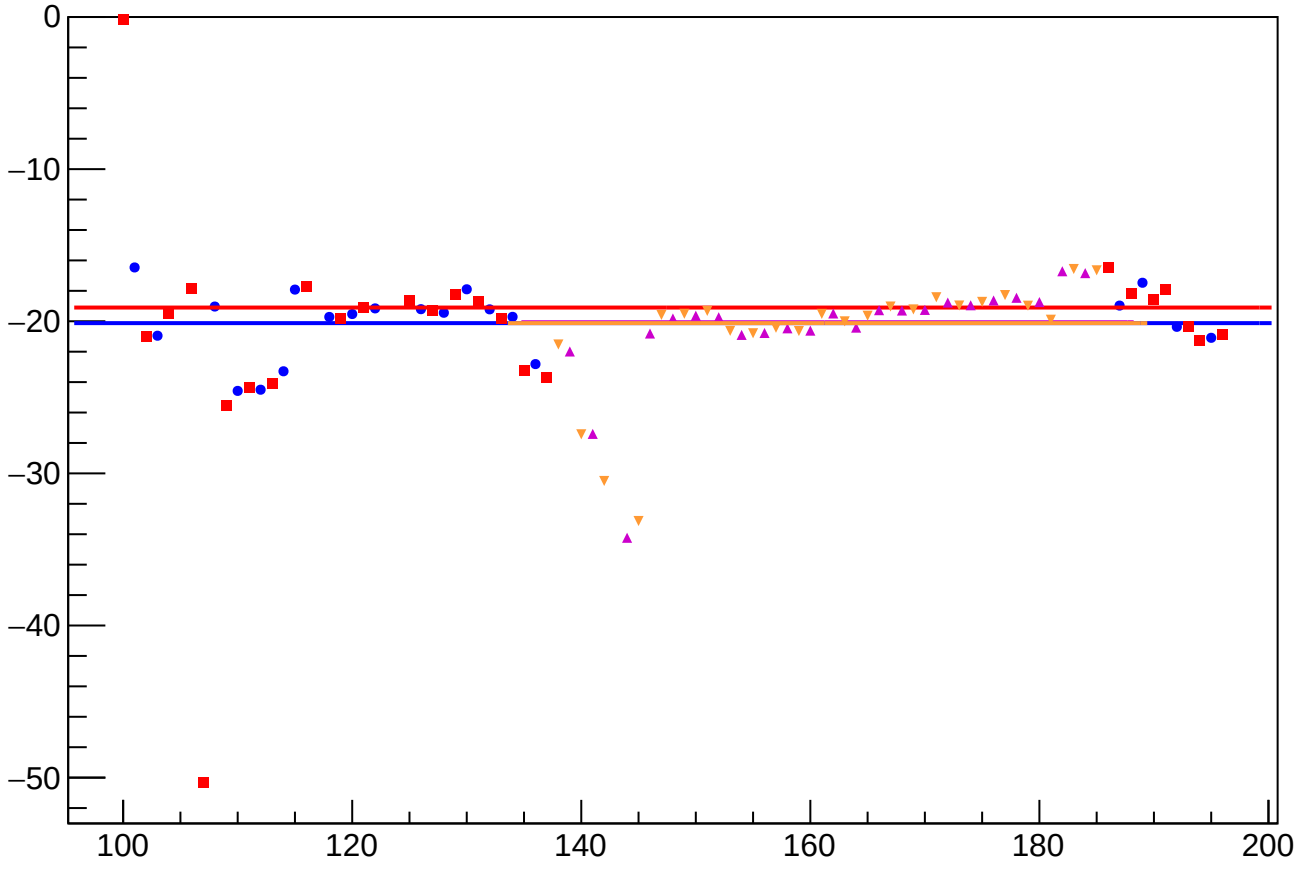
Left: 8.897+/-0.124 $\chi^2$/NDF: 534.4/46

Right: 3.549+/-0.168 $\chi^2$/NDF: 838.7/44

In: 7.163+/-0.142 $\chi^2$/NDF:1041.0/42

Out: 6.872+/-0.139 $\chi^2$/NDF:988.1/48

All: 7.014+/-0.100 $\chi^2$/NDF: 2031.3/91




Right In: -20.123+/-0.014 $\chi^2$/NDF: 22480.5/19

Left Out: -20.123+/-0.008 $\chi^2$/NDF:158578.7/23

Right Out: -19.099+/-0.012 $\chi^2$/NDF: 241323.6/24

Left In: -20.063+/-0.008 $\chi^2$/NDF:132690.0/22

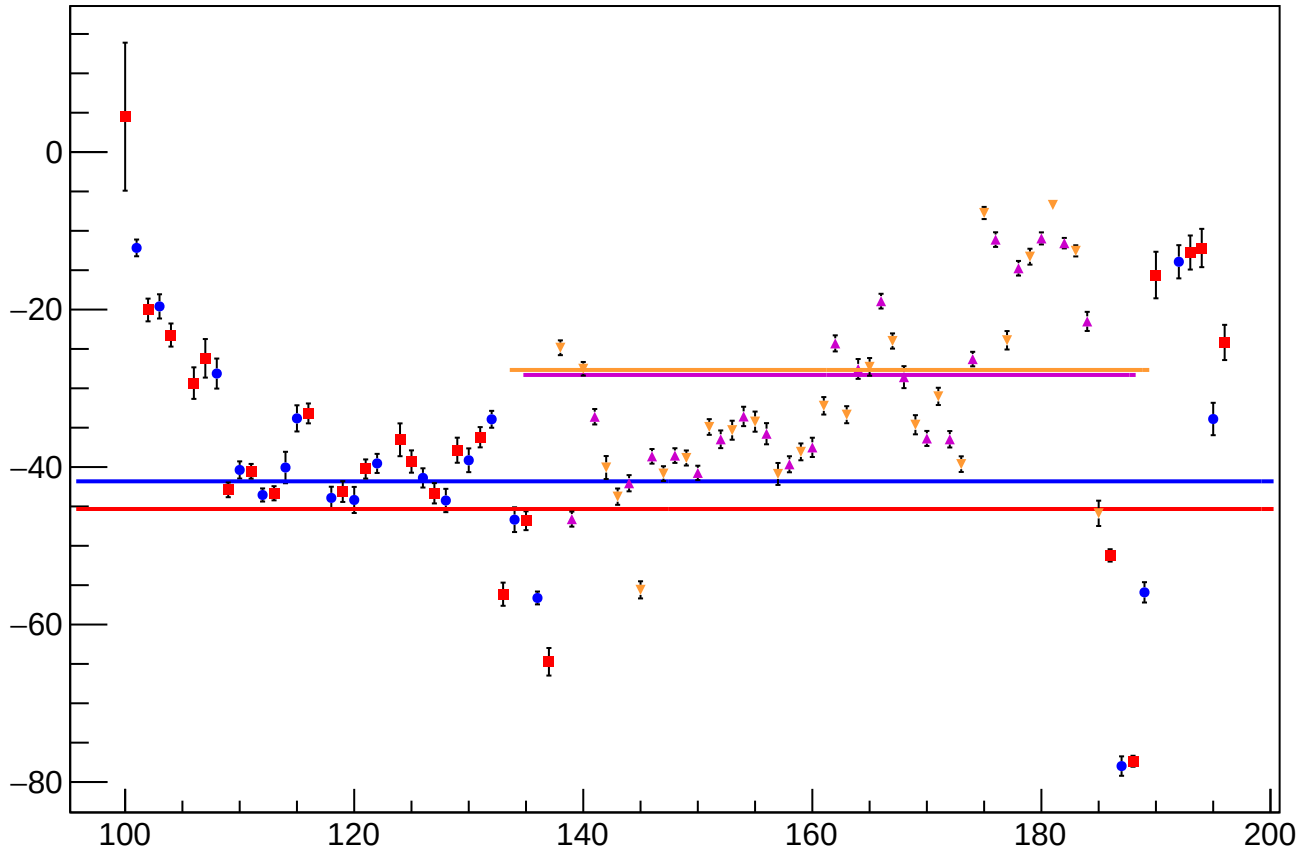
Left: -20.093+/-0.006 $\chi^2$/NDF: 291297.6/46

Right: -19.559+/-0.009 $\chi^2$/NDF: 266832.6/44

In: -20.078+/-0.007 $\chi^2$/NDF:155184.5/42

Out: -19.828+/-0.007 $\chi^2$/NDF:404707.7/48

All: -19.950+/-0.005 $\chi^2$/NDF: 560571.7/91




Right In: -41.812+/-0.288 $\chi^2$/NDF: 2639.3/19

Left Out: -27.668+/-0.200 $\chi^2$/NDF:4396.9/24

Right Out: -45.326+/-0.258 $\chi^2$/NDF: 3904.1/24

Left In: -28.303+/-0.206 $\chi^2$/NDF:3273.4/22

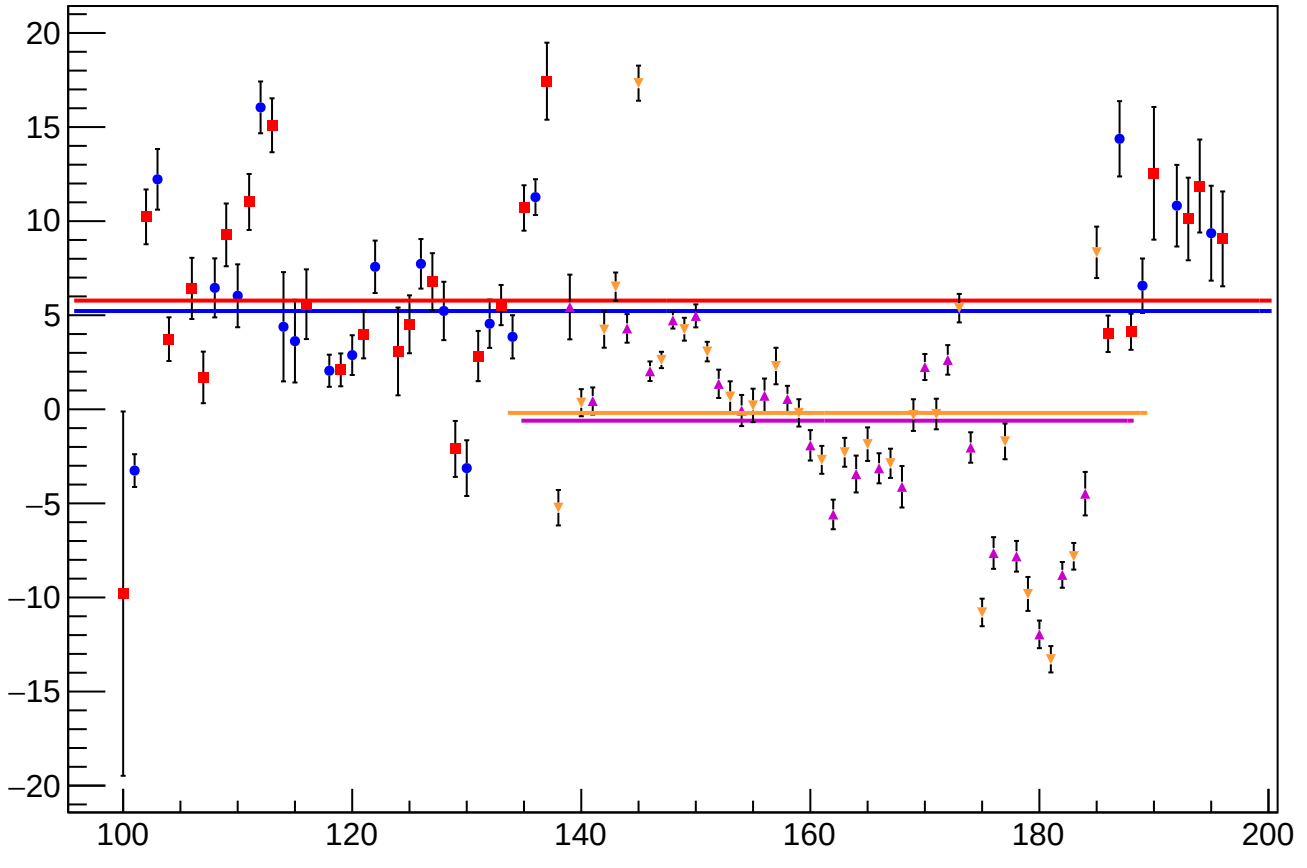
Left: -27.977+/-0.144 $\chi^2$/NDF: 7675.2/47

Right: -43.757+/-0.192 $\chi^2$/NDF: 6626.0/44

In: -32.874+/-0.167 $\chi^2$/NDF:7371.4/42

Out: -34.305+/-0.158 $\chi^2$/NDF:11217.3/49

All: -33.629+/-0.115 $\chi^2$/NDF: 18627.3/92




Right In: 5.223+/-0.300 $\chi^2$/NDF: 307.2/19

Left Out: -0.192+/-0.150 $\chi^2$/NDF:1545.3/24

Right Out: 5.778+/-0.285 $\chi^2$/NDF: 209.3/24

Left In: -0.605+/-0.155 $\chi^2$/NDF:974.6/22

Left: -0.391+/-0.108 $\chi^2$/NDF: 2523.5/47

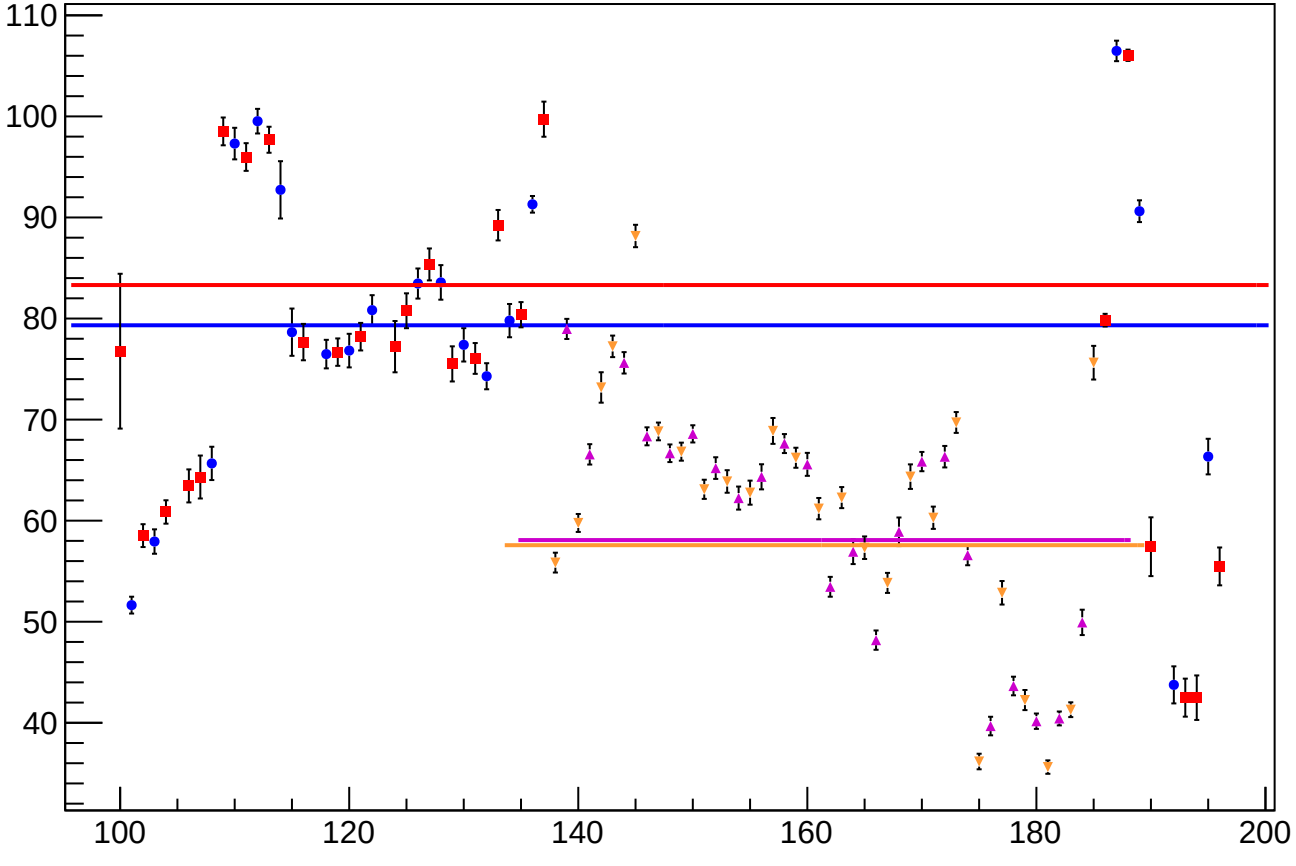
Right: 5.515+/-0.207 $\chi^2$/NDF: 518.3/44

In: 0.626+/-0.138 $\chi^2$/NDF:1579.7/42

Out: 1.103+/-0.133 $\chi^2$/NDF:2097.8/49

All: 0.873+/-0.096 $\chi^2$/NDF: 3683.7/92

reg_asym_right_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 79.332+/-0.298 $\chi^2$/NDF: 3424.8/19

Left Out: 57.573+/-0.199 $\chi^2$/NDF:4685.5/24

Right Out: 83.313+/-0.259 $\chi^2$/NDF: 4430.5/24

Left In: 58.080+/-0.203 $\chi^2$/NDF:3558.6/22

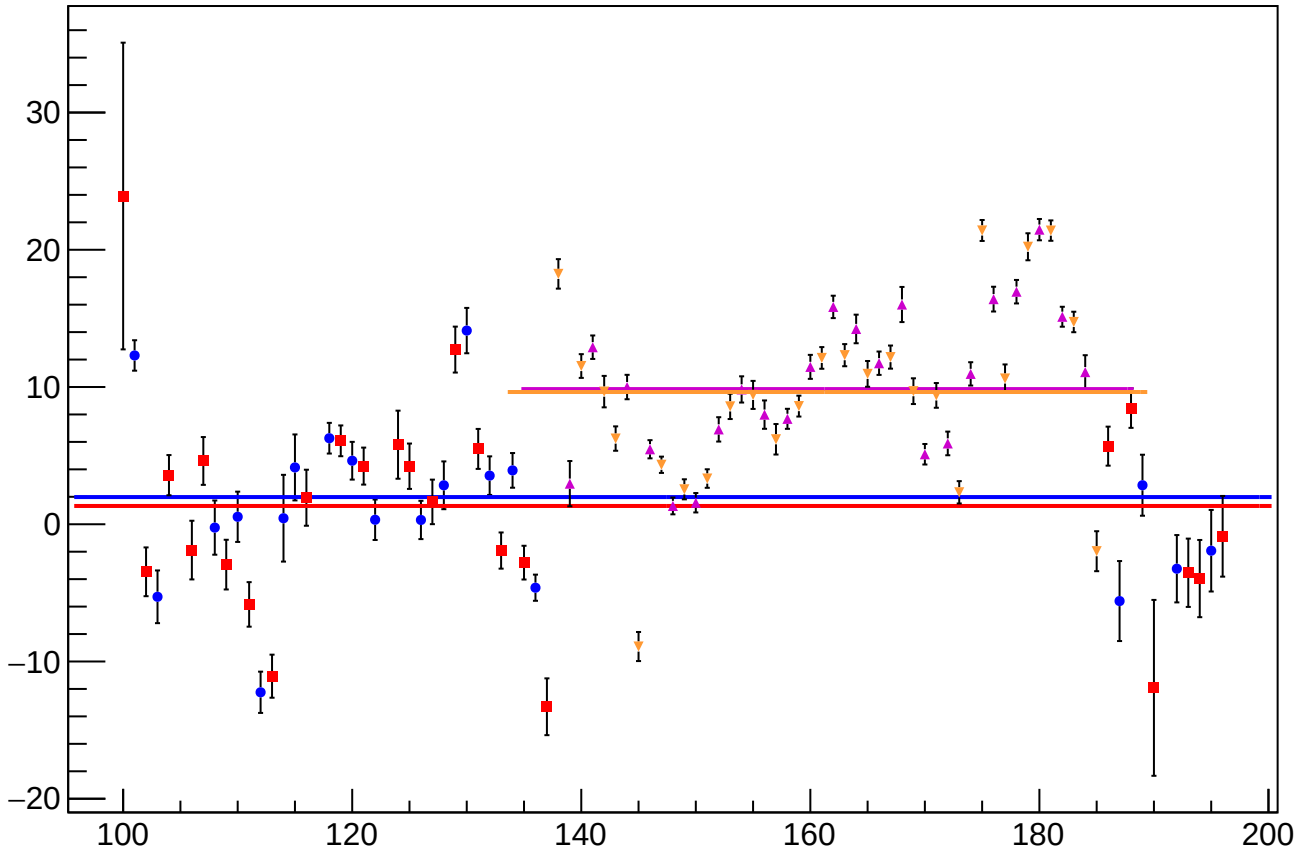
Left: 57.821+/-0.142 $\chi^2$/NDF: 8247.2/47

Right: 81.599+/-0.196 $\chi^2$/NDF: 7957.0/44

In: 64.839+/-0.168 $\chi^2$/NDF:10453.2/42

Out: 67.122+/-0.158 $\chi^2$/NDF:15324.4/49

All: 66.052+/-0.115 $\chi^2$/NDF: 25875.7/92




Right In: 1.981+/-0.350 $\chi^2$/NDF: 333.3/19

Left Out: 9.636+/-0.171 $\chi^2$/NDF:1491.5/24

Right Out: 1.332+/-0.340 $\chi^2$/NDF: 304.0/24

Left In: 9.849+/-0.176 $\chi^2$/NDF:993.0/22

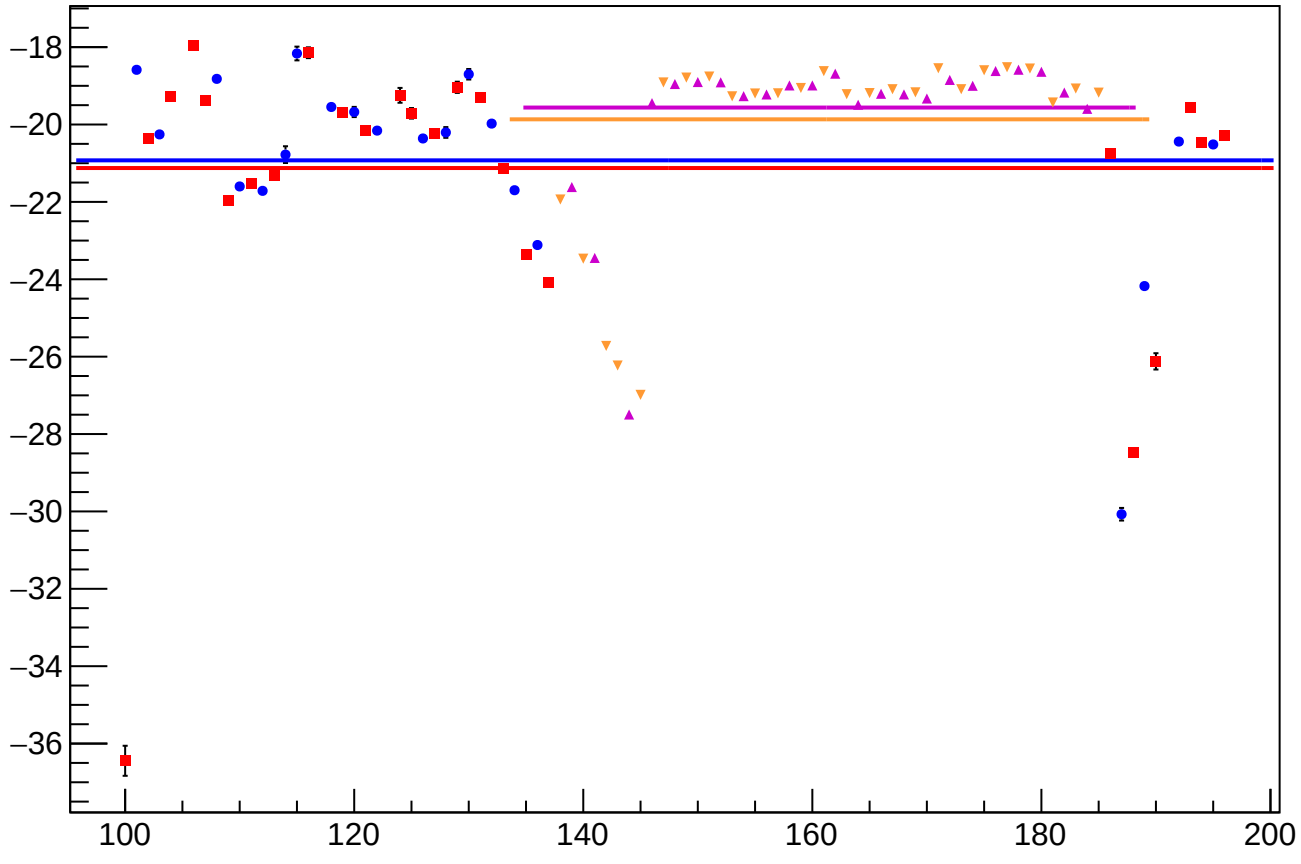
Left: 9.740+/-0.123 $\chi^2$/NDF: 2485.2/47

Right: 1.648+/-0.244 $\chi^2$/NDF: 639.1/44

In: 8.253+/-0.157 $\chi^2$/NDF:1730.3/42

Out: 7.957+/-0.153 $\chi^2$/NDF:2270.1/49

All: 8.101+/-0.110 $\chi^2$/NDF: 4002.3/92




Right In: -20.926+/-0.018 $\chi^2$/NDF: 11906.7/19

Left Out: -19.866+/-0.008 $\chi^2$/NDF:78894.3/24

Right Out: -21.125+/-0.018 $\chi^2$/NDF: 19911.9/24

Left In: -19.562+/-0.008 $\chi^2$/NDF:45172.6/22

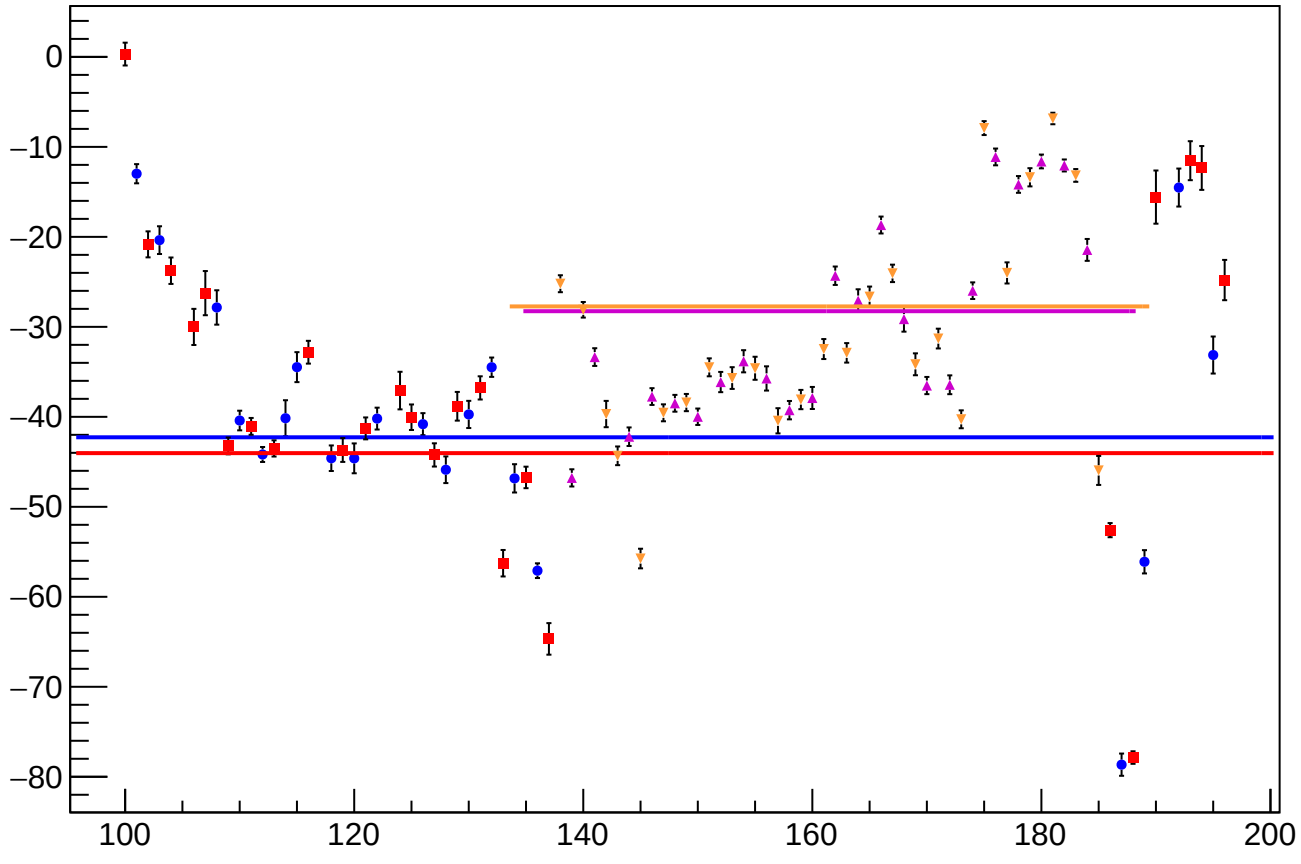
Left: -19.716+/-0.006 $\chi^2$/NDF: 124807.4/47

Right: -21.027+/-0.013 $\chi^2$/NDF: 31880.2/44

In: -19.783+/-0.007 $\chi^2$/NDF:61859.4/42

Out: -20.072+/-0.007 $\chi^2$/NDF:103010.3/49

All: -19.930+/-0.005 $\chi^2$/NDF: 165668.6/92




Right In: -42.274+/-0.288 $\chi^2$/NDF: 2626.3/19

Left Out: -27.729+/-0.201 $\chi^2$/NDF:4299.7/24

Right Out: -44.034+/-0.254 $\chi^2$/NDF: 5179.1/24

Left In: -28.260+/-0.206 $\chi^2$/NDF:3172.7/22

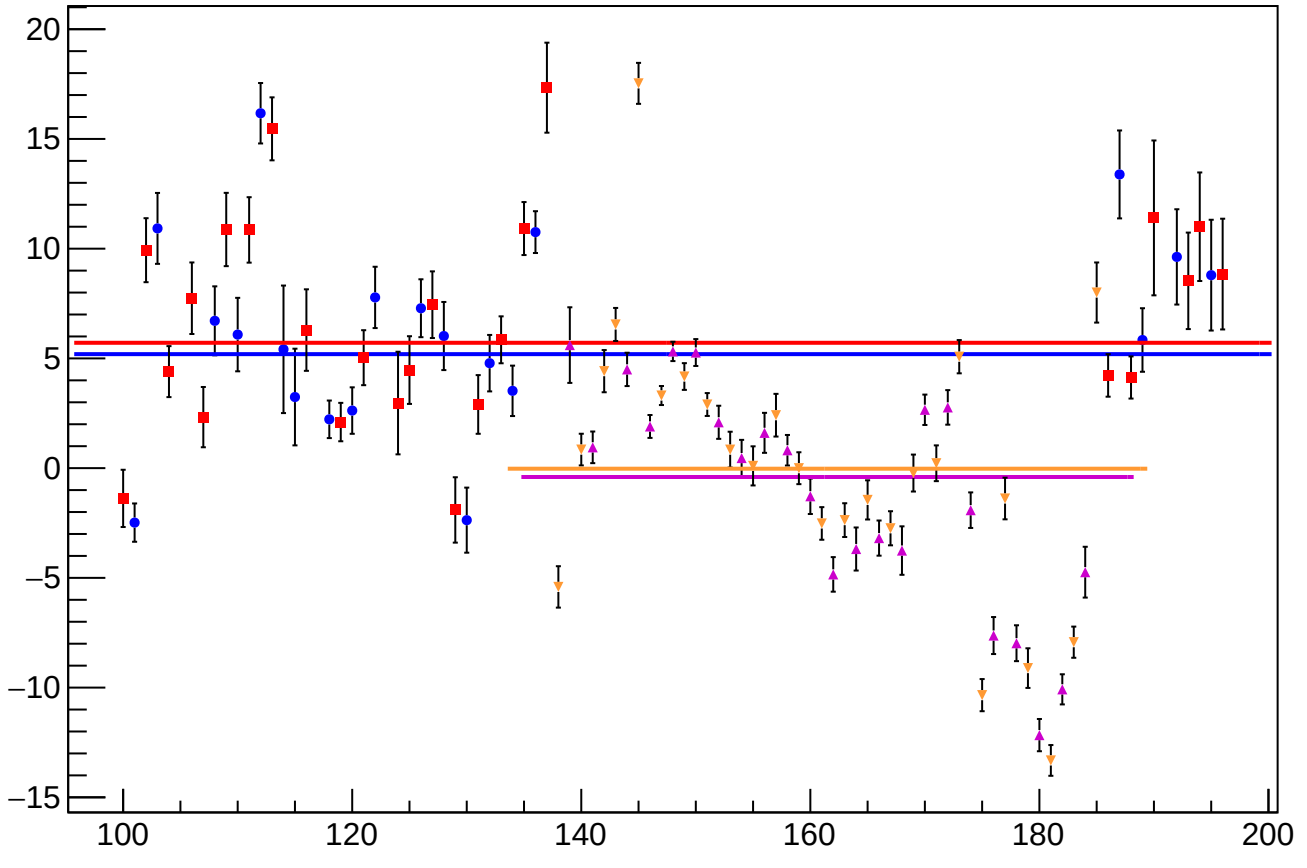
Left: -27.988+/-0.144 $\chi^2$/NDF: 7475.8/47

Right: -43.265+/-0.190 $\chi^2$/NDF: 7826.4/44

In: -33.005+/-0.168 $\chi^2$/NDF:7363.5/42

Out: -34.011+/-0.157 $\chi^2$/NDF:12020.2/49

All: -33.540+/-0.115 $\chi^2$/NDF: 19402.8/92




Right In: 5.194+/-0.300 $\chi^2$/NDF: 265.1/19

Left Out: -0.026+/-0.150 $\chi^2$/NDF:1531.8/24

Right Out: 5.712+/-0.279 $\chi^2$/NDF: 231.9/24

Left In: -0.404+/-0.155 $\chi^2$/NDF:1084.1/22

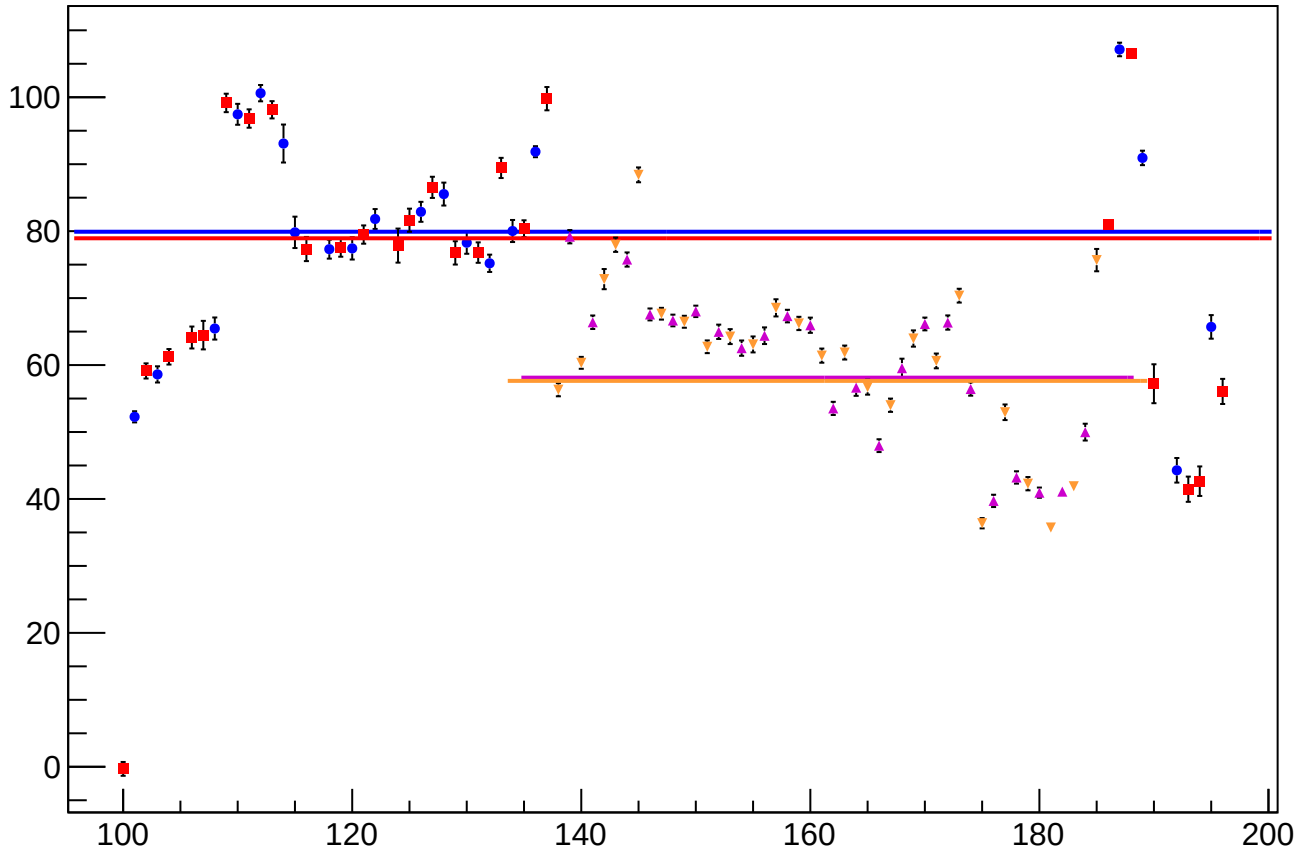
Left: -0.208+/-0.108 $\chi^2$/NDF: 2618.9/47

Right: 5.472+/-0.204 $\chi^2$/NDF: 498.6/44

In: 0.779+/-0.138 $\chi^2$/NDF:1623.2/42

Out: 1.264+/-0.132 $\chi^2$/NDF:2091.3/49

All: 1.031+/-0.096 $\chi^2$/NDF: 3720.8/92




Right In: 79.914+/-0.298 $\chi^2$/NDF: 3432.5/19

Left Out: 57.638+/-0.199 $\chi^2$/NDF:4612.7/24

Right Out: 78.934+/-0.252 $\chi^2$/NDF: 10695.0/24

Left In: 58.117+/-0.204 $\chi^2$/NDF:3443.9/22

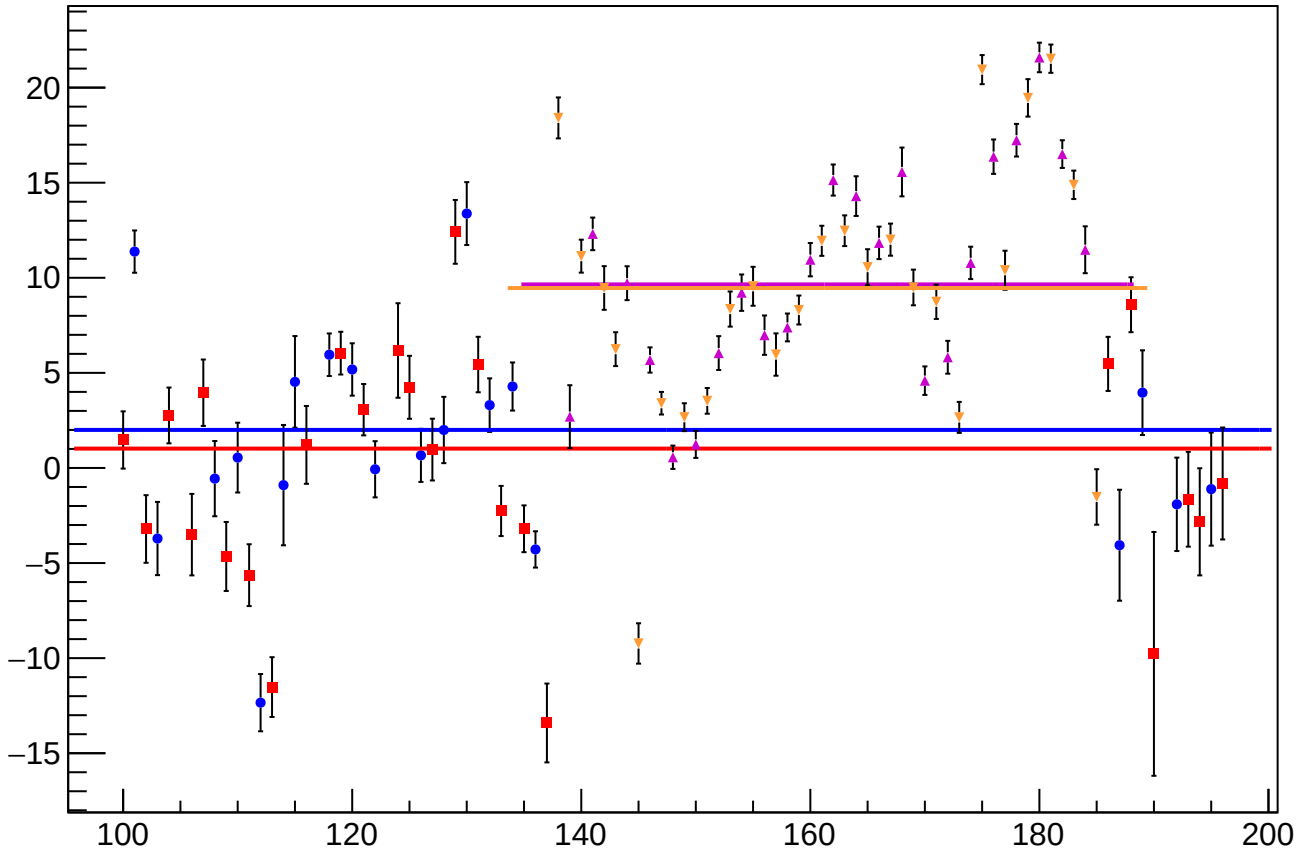
Left: 57.872+/-0.142 $\chi^2$/NDF: 8059.4/47

Right: 79.342+/-0.192 $\chi^2$/NDF: 14133.8/44

In: 65.053+/-0.168 $\chi^2$/NDF:10514.6/42

Out: 65.840+/-0.156 $\chi^2$/NDF:19706.7/49

All: 65.476+/-0.115 $\chi^2$/NDF: 30233.0/92




Right In: 2.001+/-0.350 $\chi^2$/NDF: 299.3/19

Left Out: 9.461+/-0.172 $\chi^2$/NDF:1483.1/24

Right Out: 1.019+/-0.333 $\chi^2$/NDF: 300.2/24

Left In: 9.650+/-0.177 $\chi^2$/NDF:1078.5/22

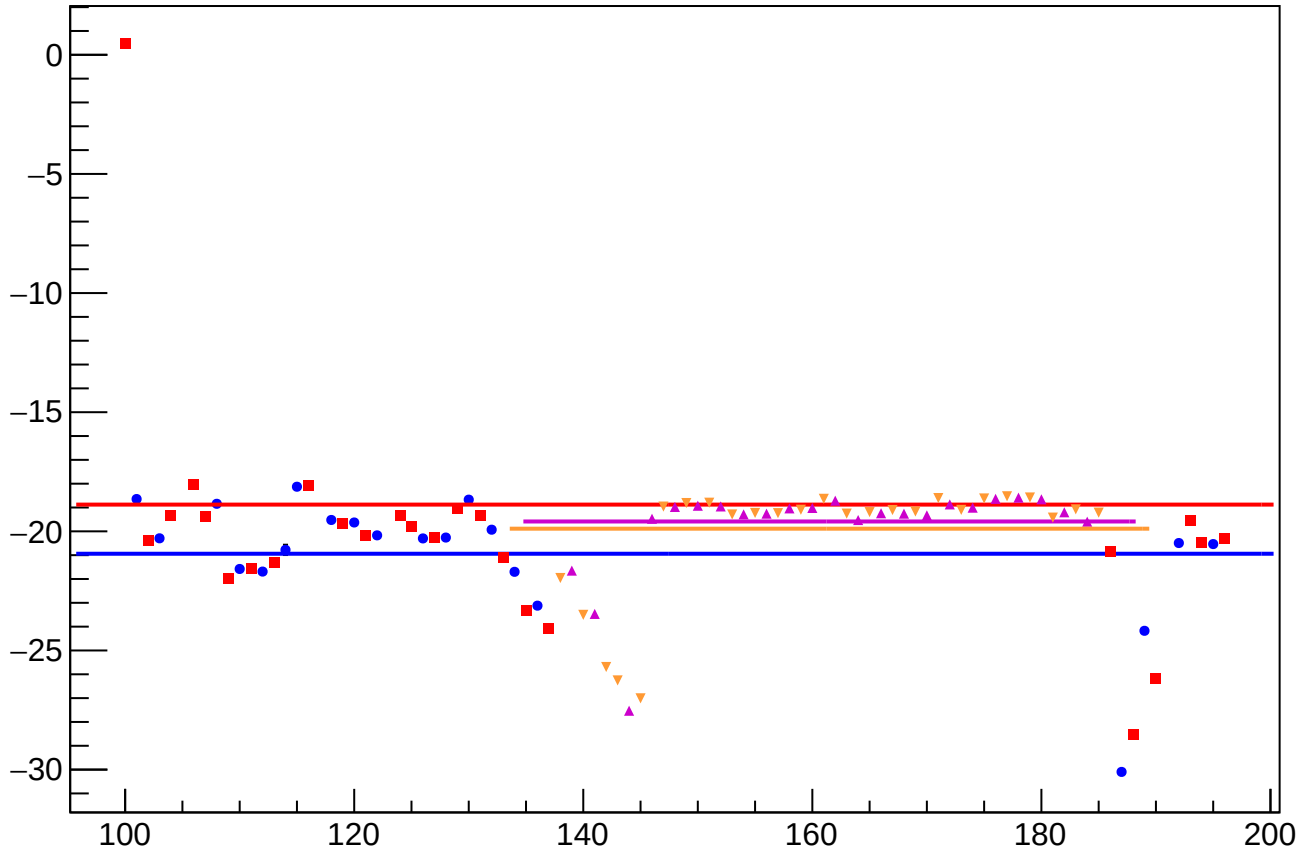
Left: 9.553+/-0.123 $\chi^2$/NDF: 2562.3/47

Right: 1.485+/-0.241 $\chi^2$/NDF: 603.6/44

In: 8.098+/-0.158 $\chi^2$/NDF:1758.5/42

Out: 7.686+/-0.153 $\chi^2$/NDF:2291.8/49

All: 7.885+/-0.110 $\chi^2$/NDF: 4053.8/92




Right In: -20.940+/-0.018 $\chi^2$/NDF: 11771.6/19

Left Out: -19.889+/-0.008 $\chi^2$/NDF:78512.6/24

Right Out: -18.878+/-0.017 $\chi^2$/NDF: 170591.8/24

Left In: -19.586+/-0.008 $\chi^2$/NDF:45085.3/22

Left: -19.739+/-0.006 $\chi^2$/NDF: 124326.8/47

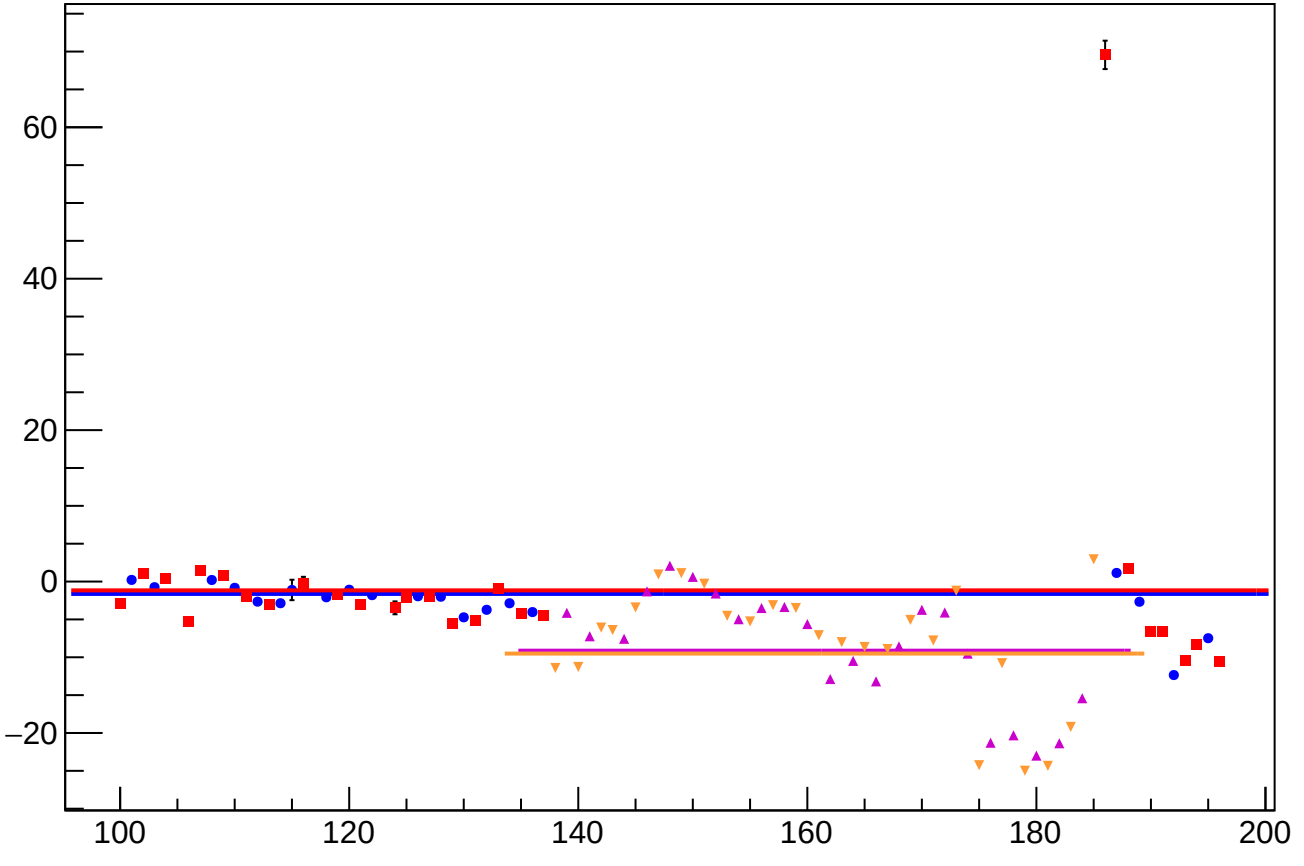
Right: -19.836+/-0.012 $\chi^2$/NDF: 189325.4/44

In: -19.806+/-0.007 $\chi^2$/NDF:61550.9/42

Out: -19.707+/-0.007 $\chi^2$/NDF:252058.4/49

All: -19.756+/-0.005 $\chi^2$/NDF: 313703.2/92

reg_asym_sam_15_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.632+/-0.053 $\chi^2$/NDF: 1776.6/19

Left Out: -9.512+/-0.073 $\chi^2$/NDF:12916.4/24

Right Out: -1.163+/-0.047 $\chi^2$/NDF: 5055.9/25

Left In: -9.131+/-0.075 $\chi^2$/NDF:10390.6/22

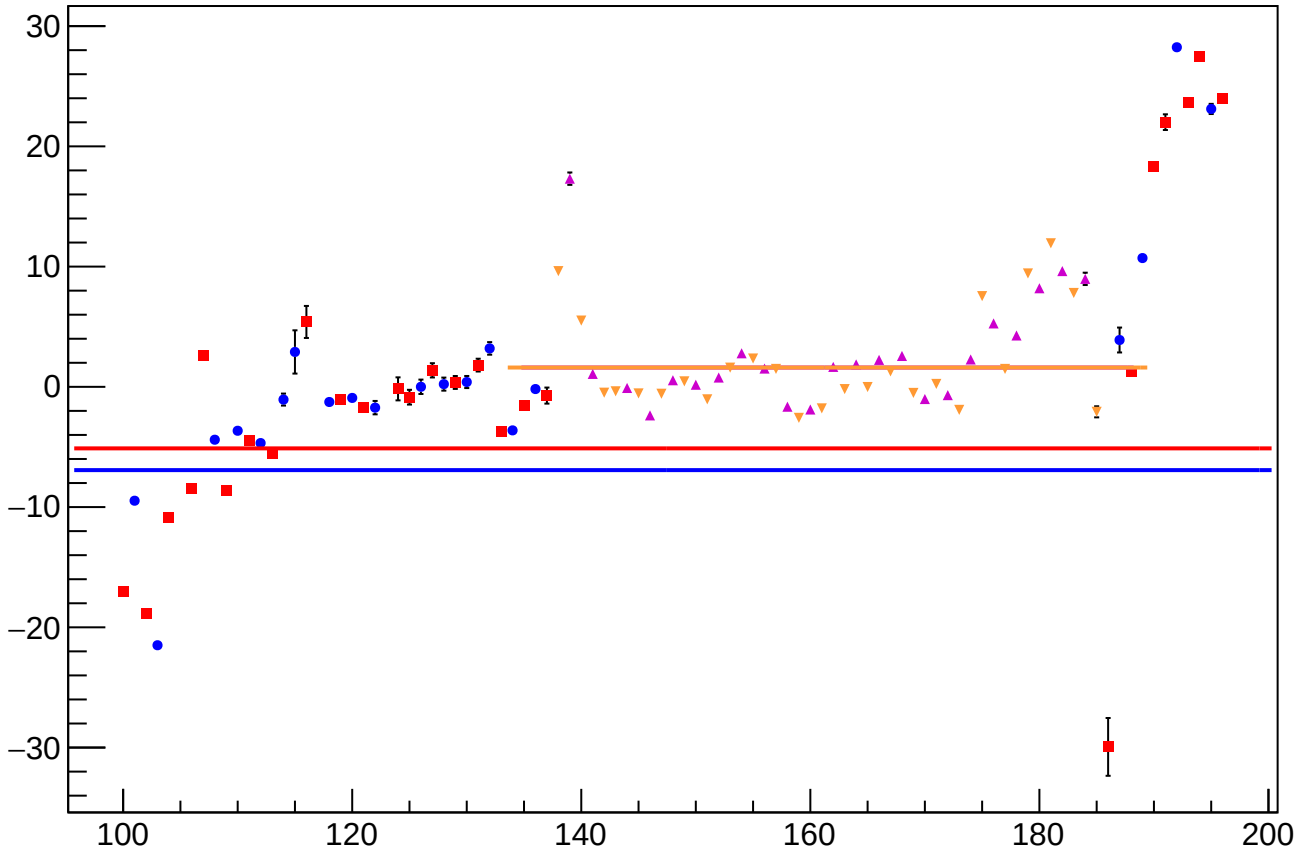
Left: -9.327+/-0.052 $\chi^2$/NDF: 23320.3/47

Right: -1.373+/-0.035 $\chi^2$/NDF: 6876.5/45

In: -4.116+/-0.043 $\chi^2$/NDF:18893.1/42

Out: -3.648+/-0.040 $\chi^2$/NDF:27250.7/50

All: -3.863+/-0.029 $\chi^2$/NDF: 46207.7/93




Right In: -6.926+/-0.055 $\chi^2$/NDF: 30337.9/19

Left Out: 1.606+/-0.055 $\chi^2$/NDF:4677.2/24

Right Out: -5.118+/-0.054 $\chi^2$/NDF: 40793.1/25

Left In: 1.605+/-0.058 $\chi^2$/NDF:3656.4/22

Left: 1.605+/-0.040 $\chi^2$/NDF: 8333.6/47

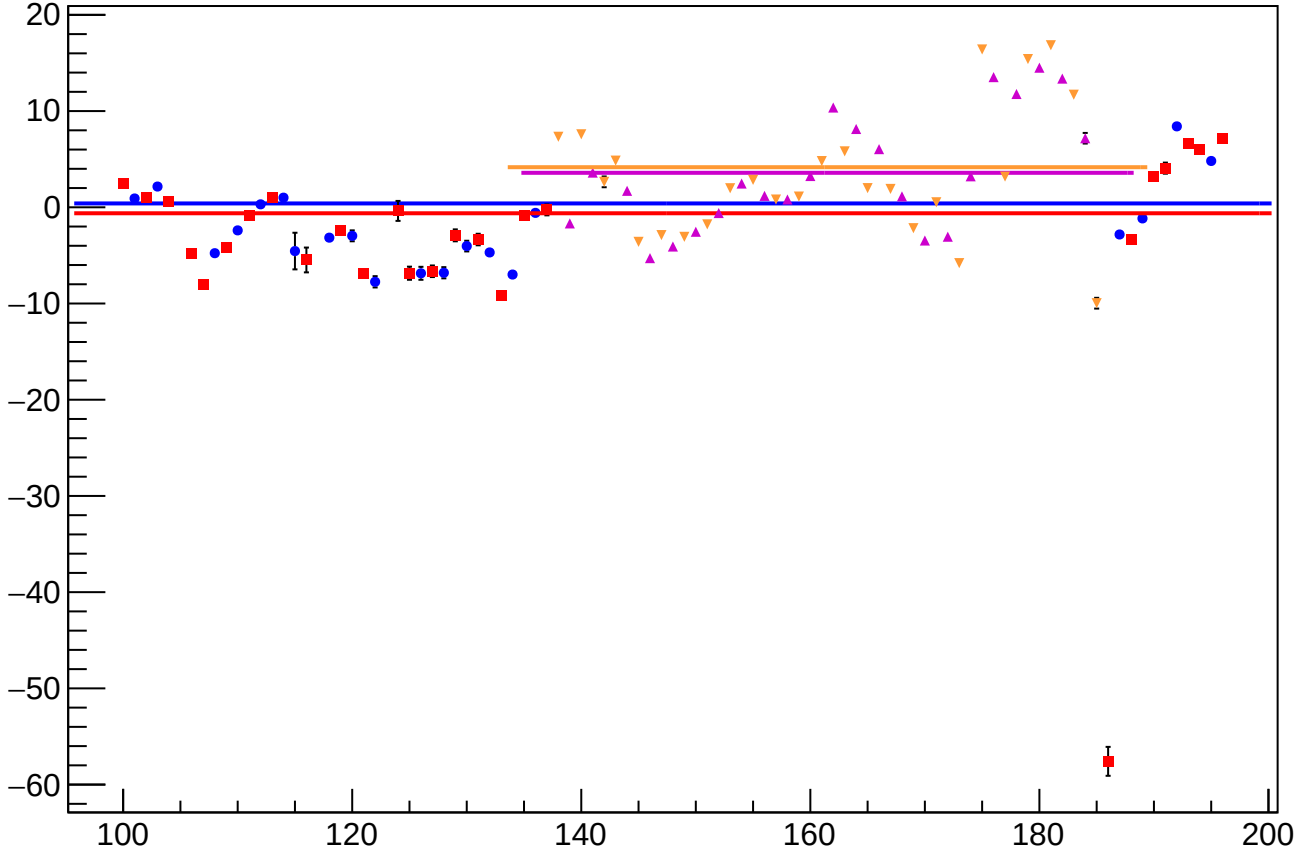
Right: -5.999+/-0.039 $\chi^2$/NDF: 71680.8/45

In: -2.847+/-0.040 $\chi^2$/NDF:45412.5/42

Out: -1.838+/-0.039 $\chi^2$/NDF:53076.3/50

All: -2.325+/-0.028 $\chi^2$/NDF: 98820.0/93

reg_asym_sam_15_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.401+/-0.051 $\chi^2$/NDF: 2844.3/19

Left Out: 4.167+/-0.072 $\chi^2$/NDF:9246.5/24

Right Out: -0.621+/-0.048 $\chi^2$/NDF: 6468.1/25

Left In: 3.584+/-0.074 $\chi^2$/NDF:7228.4/22

Left: 3.883+/-0.052 $\chi^2$/NDF: 16506.8/47

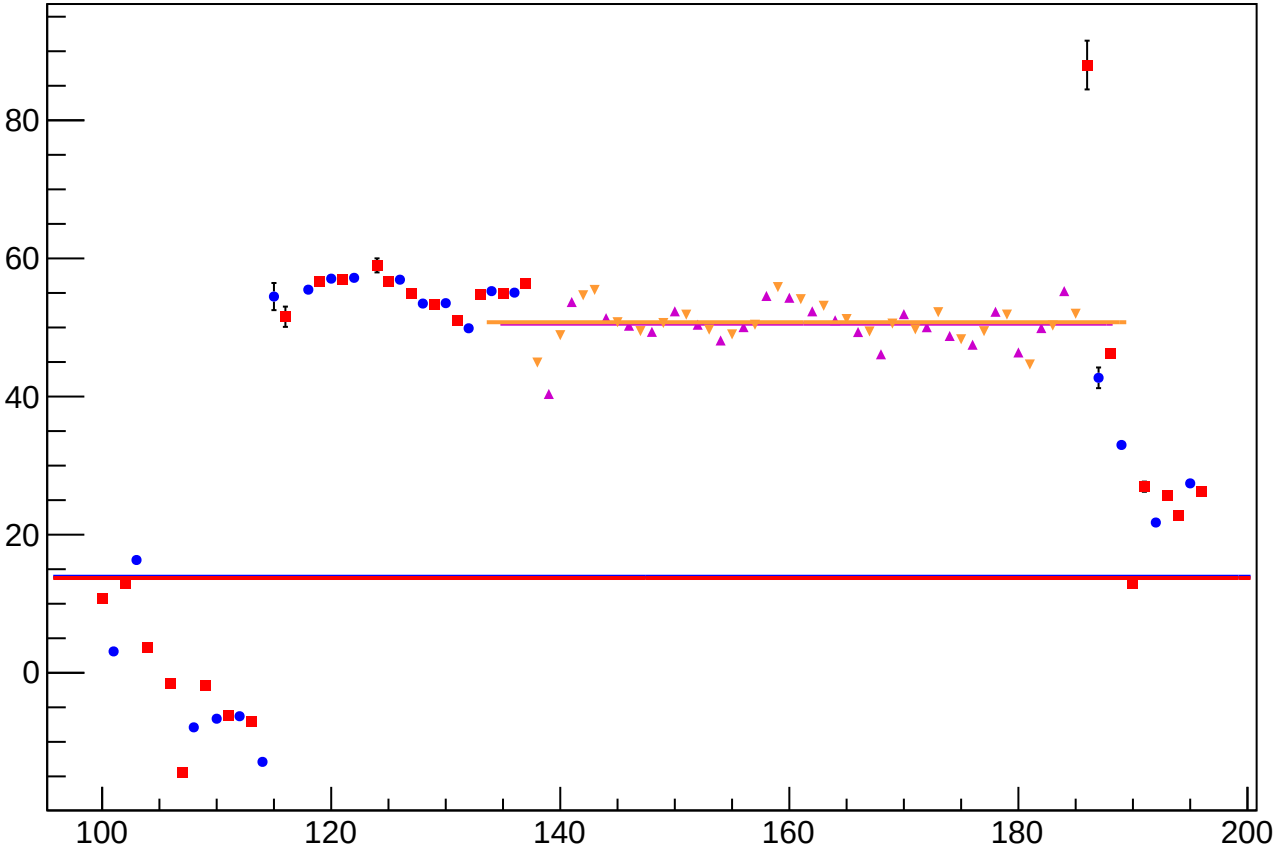
Right: -0.139+/-0.035 $\chi^2$/NDF: 9526.7/45

In: 1.420+/-0.042 $\chi^2$/NDF:11332.4/42

Out: 0.848+/-0.040 $\chi^2$/NDF:18770.9/50

All: 1.121+/-0.029 $\chi^2$/NDF: 30200.8/93

reg_asym_sam_15_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 13.908+/-0.066 $\chi^2$/NDF: 111225.8/19

Left Out: 50.761+/-0.062 $\chi^2$/NDF:1748.6/24

Right Out: 13.726+/-0.064 $\chi^2$/NDF: 128665.7/25

Left In: 50.550+/-0.065 $\chi^2$/NDF:1717.7/22

Left: 50.659+/-0.045 $\chi^2$/NDF: 3471.7/47

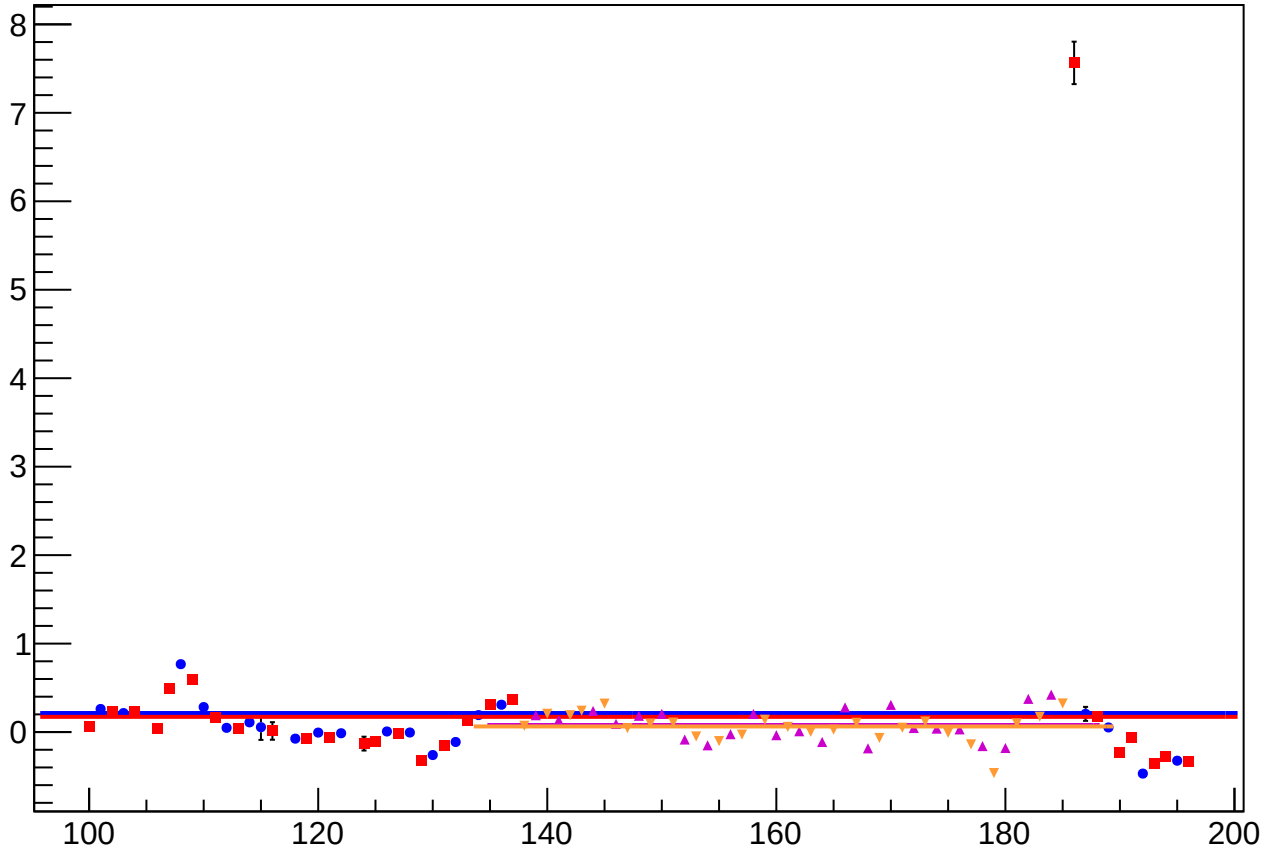
Right: 13.815+/-0.046 $\chi^2$/NDF: 239895.4/45

In: 32.574+/-0.046 $\chi^2$/NDF:269956.8/42

Out: 32.751+/-0.045 $\chi^2$/NDF:301501.2/50

All: 32.666+/-0.032 $\chi^2$/NDF: 571465.6/93

reg_asym_sam_15_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.215+/-0.003 $\chi^2$/NDF: 8073.7/19

Left Out: 0.063+/-0.003 $\chi^2$/NDF:2566.7/24

Right Out: 0.172+/-0.003 $\chi^2$/NDF: 8318.9/25

Left In: 0.080+/-0.003 $\chi^2$/NDF:3446.5/22

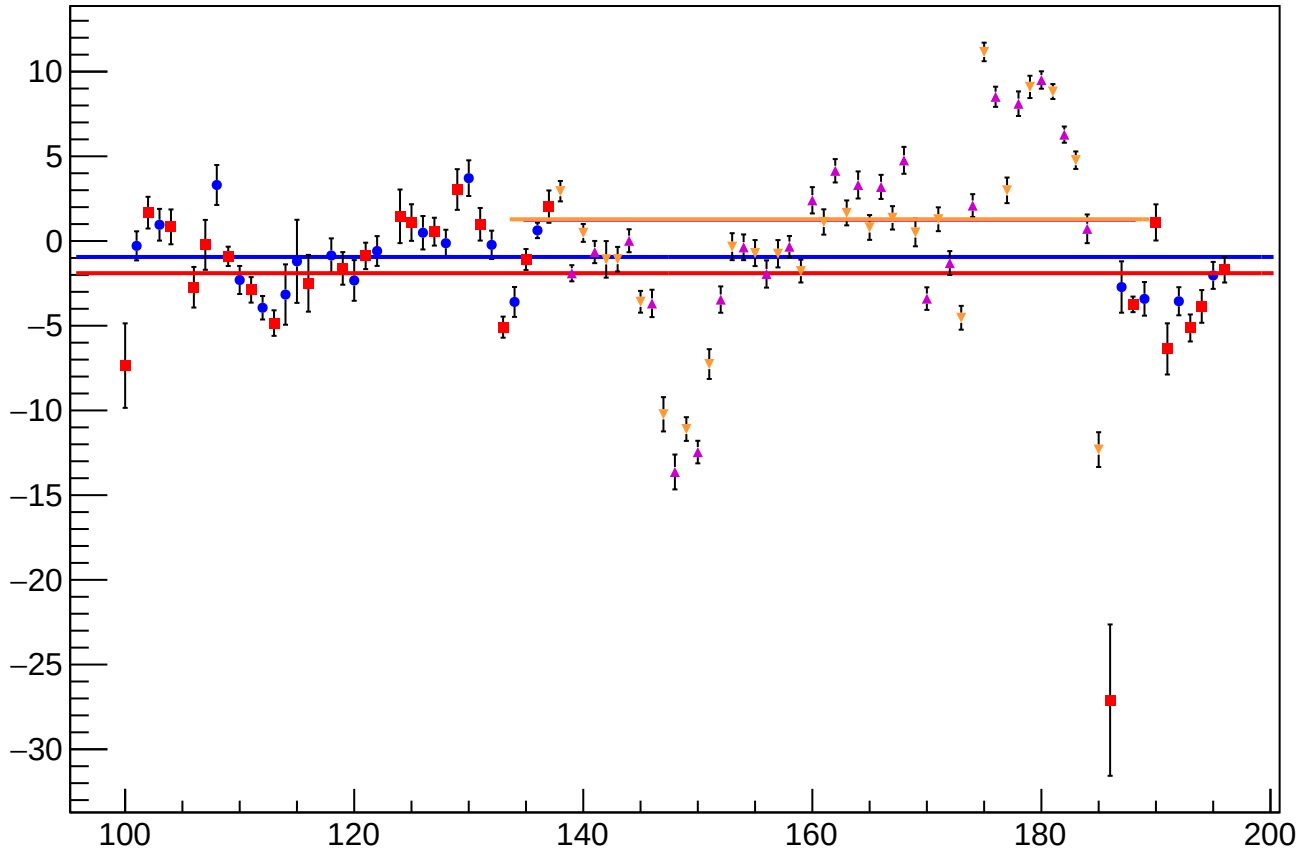
Left: 0.071+/-0.002 $\chi^2$/NDF: 6029.9/47

Right: 0.193+/-0.002 $\chi^2$/NDF: 16531.4/45

In: 0.152+/-0.002 $\chi^2$/NDF:12739.5/42

Out: 0.123+/-0.002 $\chi^2$/NDF:11718.1/50

All: 0.137+/-0.001 $\chi^2$/NDF: 24569.4/93




Right In: -0.941+/-0.197 $\chi^2$/NDF: 105.8/19

Left Out: 1.283+/-0.137 $\chi^2$/NDF:1715.5/24

Right Out: -1.897+/-0.170 $\chi^2$/NDF: 227.1/25

Left In: 1.247+/-0.140 $\chi^2$/NDF:1512.4/22

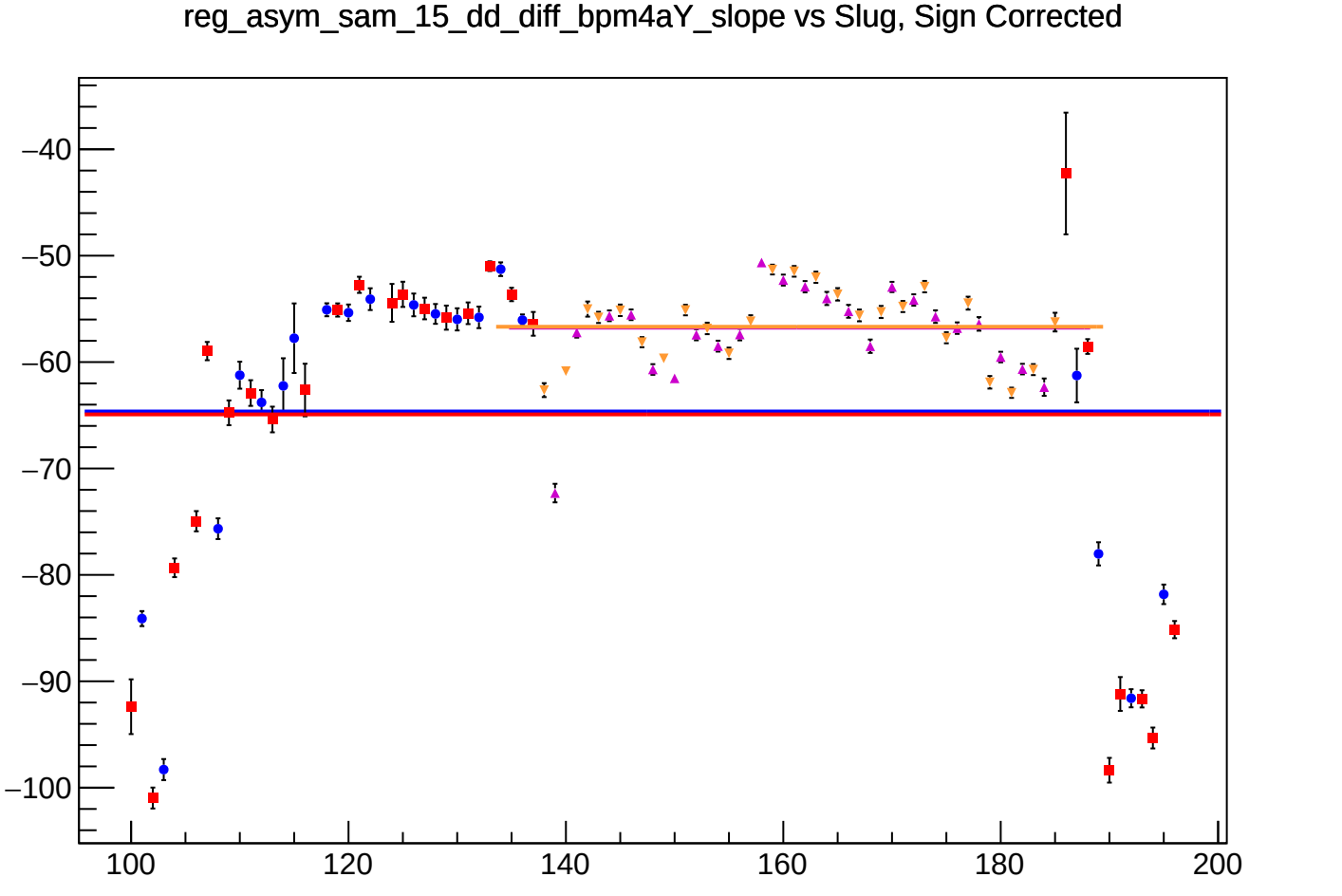
Left: 1.265+/-0.098 $\chi^2$/NDF: 3228.0/47

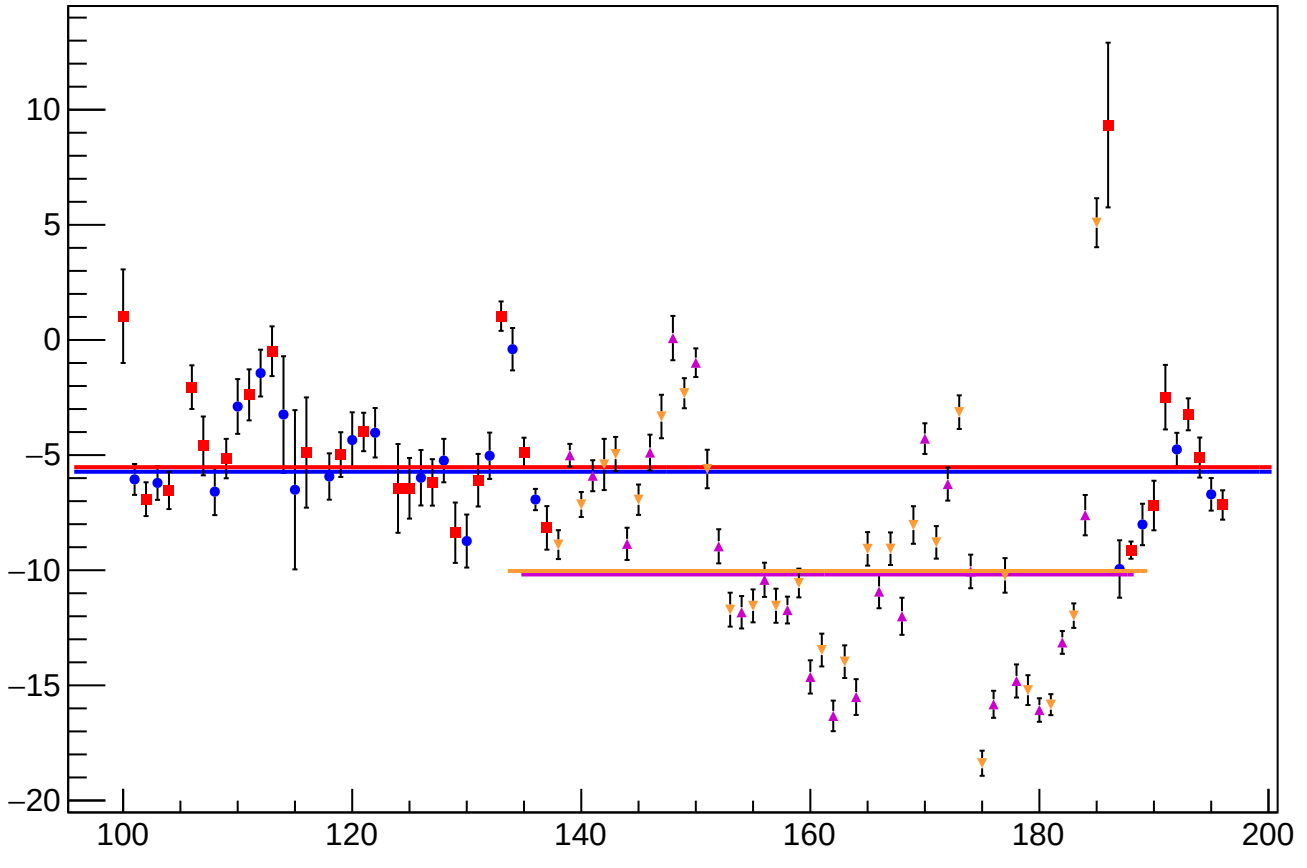
Right: -1.489+/-0.129 $\chi^2$/NDF: 346.3/45

In: 0.511+/-0.114 $\chi^2$/NDF:1699.8/42

Out: 0.035+/-0.107 $\chi^2$/NDF:2154.3/50

All: 0.256+/-0.078 $\chi^2$/NDF: 3863.3/93


reg_asym_sam_15_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
−40
−50
−60
−70
−80
−90
−100
100
120
140
160
180
200
Right In: -64.643+/-0.202 χ²/NDF: 5079.6/19
Left Out: -56.680+/-0.107 χ²/NDF:1014.5/24
Right Out: -64.917+/-0.180 χ²/NDF: 7962.3/25
Left In: -56.765+/-0.112 χ²/NDF:1108.9/22
Left: -56.721+/-0.077 χ²/NDF: 2123.6/47
Right: -64.796+/-0.135 χ²/NDF: 13042.9/45
In: -58.611+/-0.098 χ²/NDF:7348.5/42
Out: -58.832+/-0.092 χ²/NDF:10518.7/50
All: -58.728+/-0.067 χ²/NDF: 17869.9/93




Right In: -5.723+/-0.201 $\chi^2$/NDF: 99.3/19

Left Out: -10.034+/-0.136 $\chi^2$/NDF:1182.4/24

Right Out: -5.524+/-0.170 $\chi^2$/NDF: 318.8/25

Left In: -10.184+/-0.139 $\chi^2$/NDF:1142.6/22

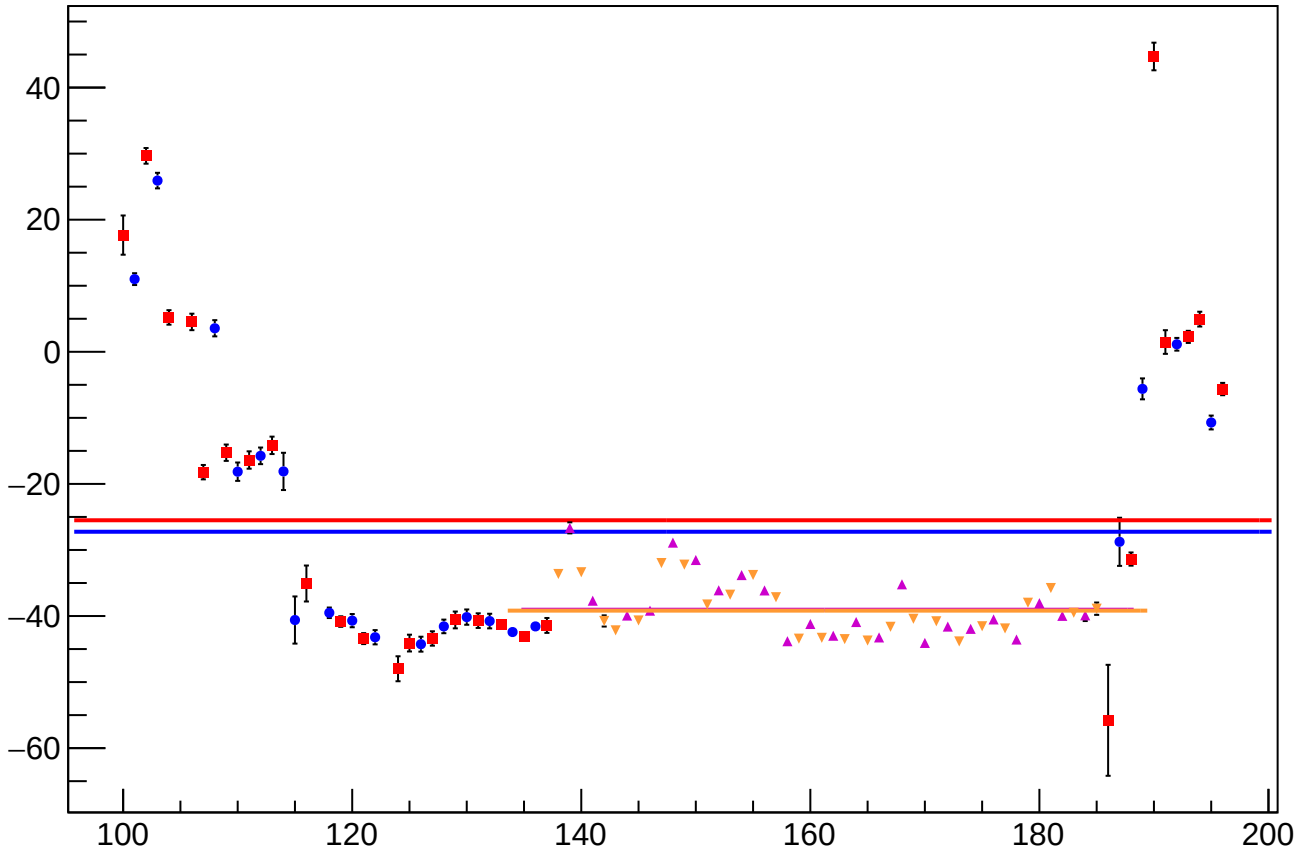
Left: -10.107+/-0.097 $\chi^2$/NDF: 2325.6/47

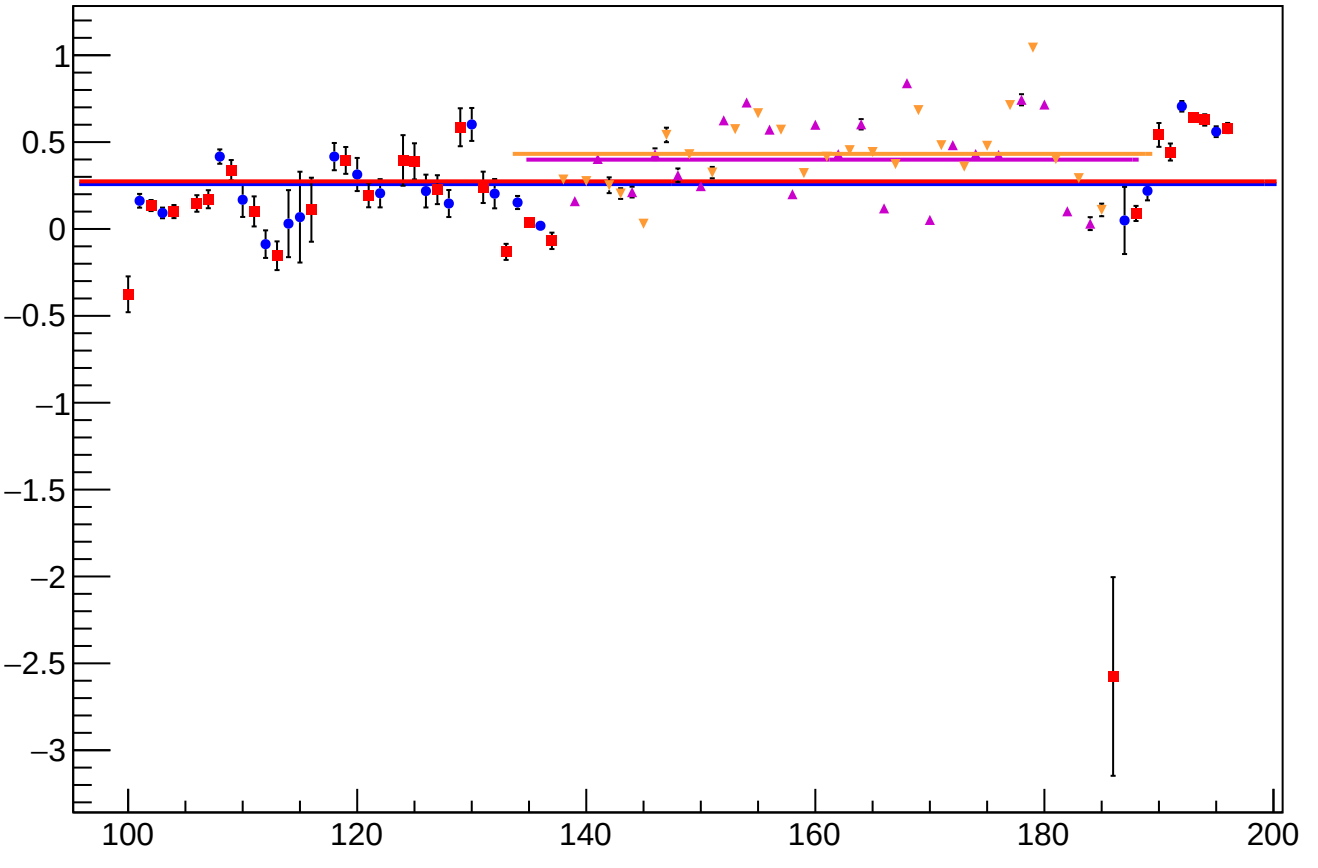
Right: -5.607+/-0.130 $\chi^2$/NDF: 418.6/45

In: -8.741+/-0.114 $\chi^2$/NDF:1574.5/42

Out: -8.268+/-0.106 $\chi^2$/NDF:1930.4/50

All: -8.487+/-0.078 $\chi^2$/NDF: 3514.1/93


reg_asym_sam_15_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
100
120
140
160
180
200
Right In: -27.241+/-0.232 χ²/NDF: 8422.5/19
Left Out: -39.183+/-0.120 χ²/NDF:1034.1/24
Right Out: -25.503+/-0.211 χ²/NDF: 11031.6/25
Left In: -39.044+/-0.124 χ²/NDF:1226.4/22
Left: -39.116+/-0.086 χ²/NDF: 2261.1/47
Right: -26.290+/-0.156 χ²/NDF: 19484.7/45
In: -36.418+/-0.110 χ²/NDF:11656.5/42
Out: -35.849+/-0.104 χ²/NDF:15233.0/50
All: -36.120+/-0.076 χ²/NDF: 26903.7/93




Right In: 0.258+/-0.011 $\chi^2$/NDF: 536.5/19

Left Out: 0.432+/-0.005 $\chi^2$/NDF:1368.7/24

Right Out: 0.274+/-0.009 $\chi^2$/NDF: 819.2/25

Left In: 0.399+/-0.005 $\chi^2$/NDF:1923.8/22

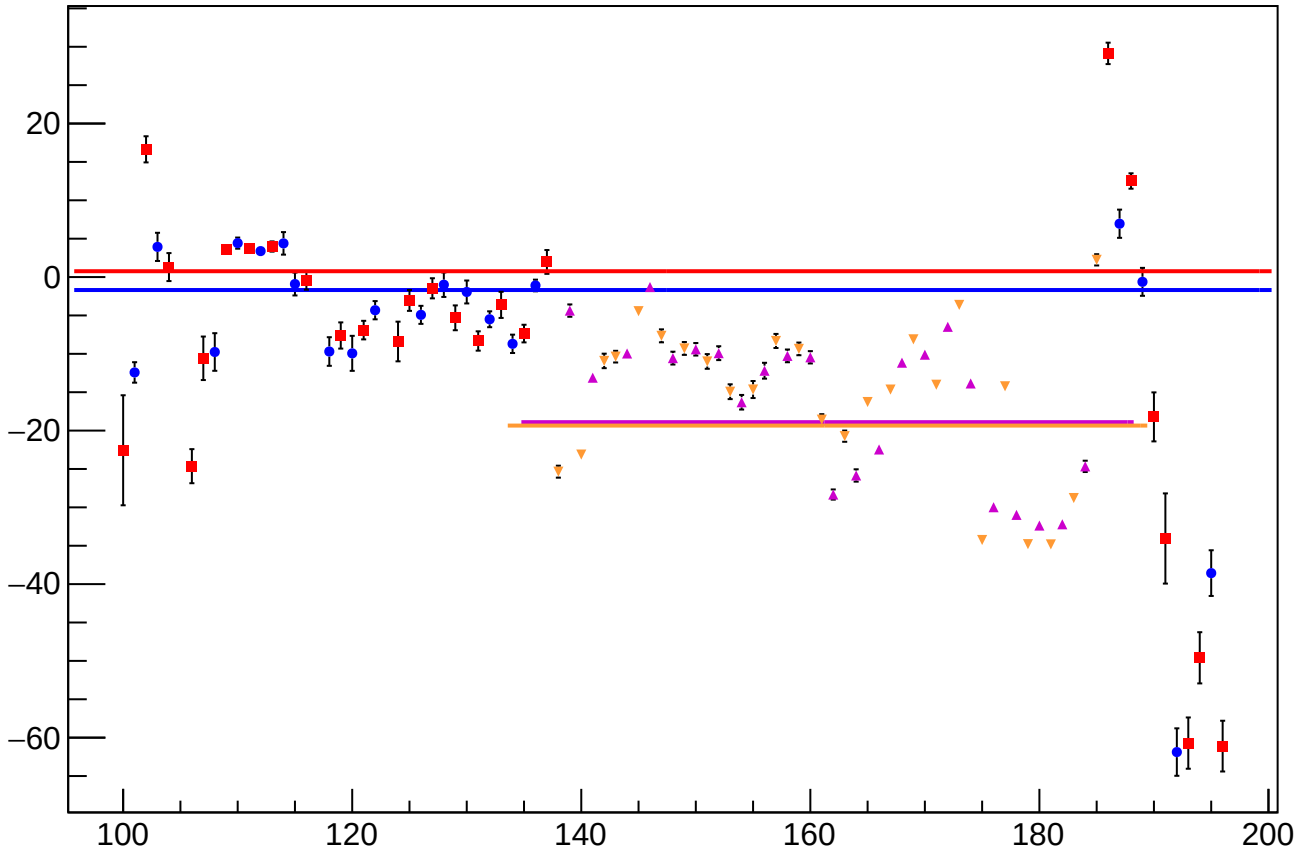
Left: 0.416+/-0.004 $\chi^2$/NDF: 3312.1/47

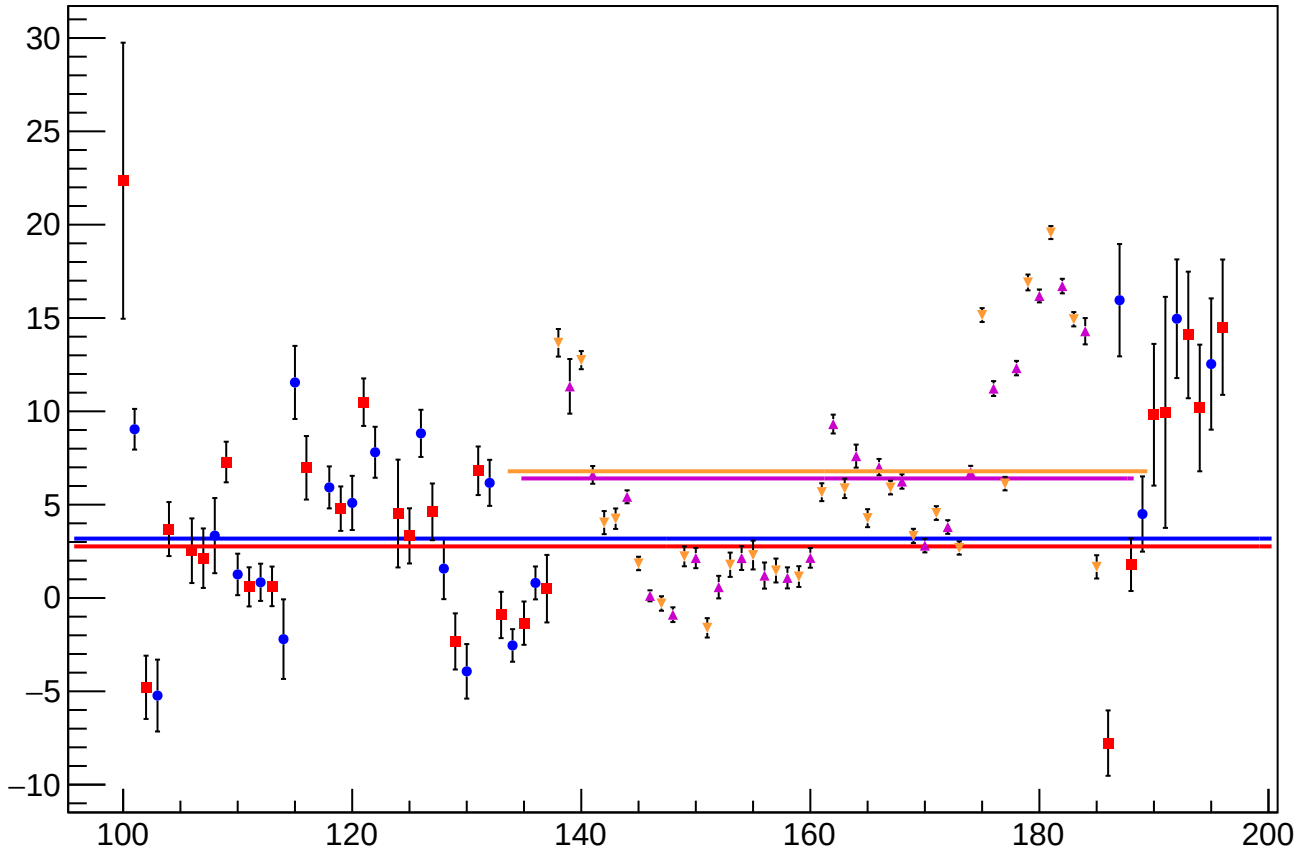
Right: 0.267+/-0.007 $\chi^2$/NDF: 1357.0/45

In: 0.370+/-0.005 $\chi^2$/NDF:2600.5/42

Out: 0.395+/-0.005 $\chi^2$/NDF:2399.3/50

All: 0.383+/-0.003 $\chi^2$/NDF: 5013.1/93


reg_asym_sam_37_avg_diff_bpm1X_slope vs Slug, Sign Corrected
20
0
−20
−40
−60
100
120
140
160
180
200
Right In: -1.689+/-0.272 χ²/NDF: 891.4/19
Left Out: -19.347+/-0.113 χ²/NDF:10394.7/24
Right Out: 0.761+/-0.250 χ²/NDF: 2063.5/25
Left In: -18.902+/-0.116 χ²/NDF:8286.2/22
Left: -19.130+/-0.081 χ²/NDF: 18688.5/47
Right: -0.360+/-0.184 χ²/NDF: 2998.9/45
In: -16.247+/-0.107 χ²/NDF:12565.1/42
Out: -15.914+/-0.103 χ²/NDF:17829.9/50
All: -16.075+/-0.074 χ²/NDF: 30400.1/93




Right In: 3.183+/-0.305 $\chi^2$/NDF: 240.1/19

Left Out: 6.788+/-0.090 $\chi^2$/NDF:4632.5/24

Right Out: 2.764+/-0.304 $\chi^2$/NDF: 212.9/25

Left In: 6.404+/-0.091 $\chi^2$/NDF:3410.4/22

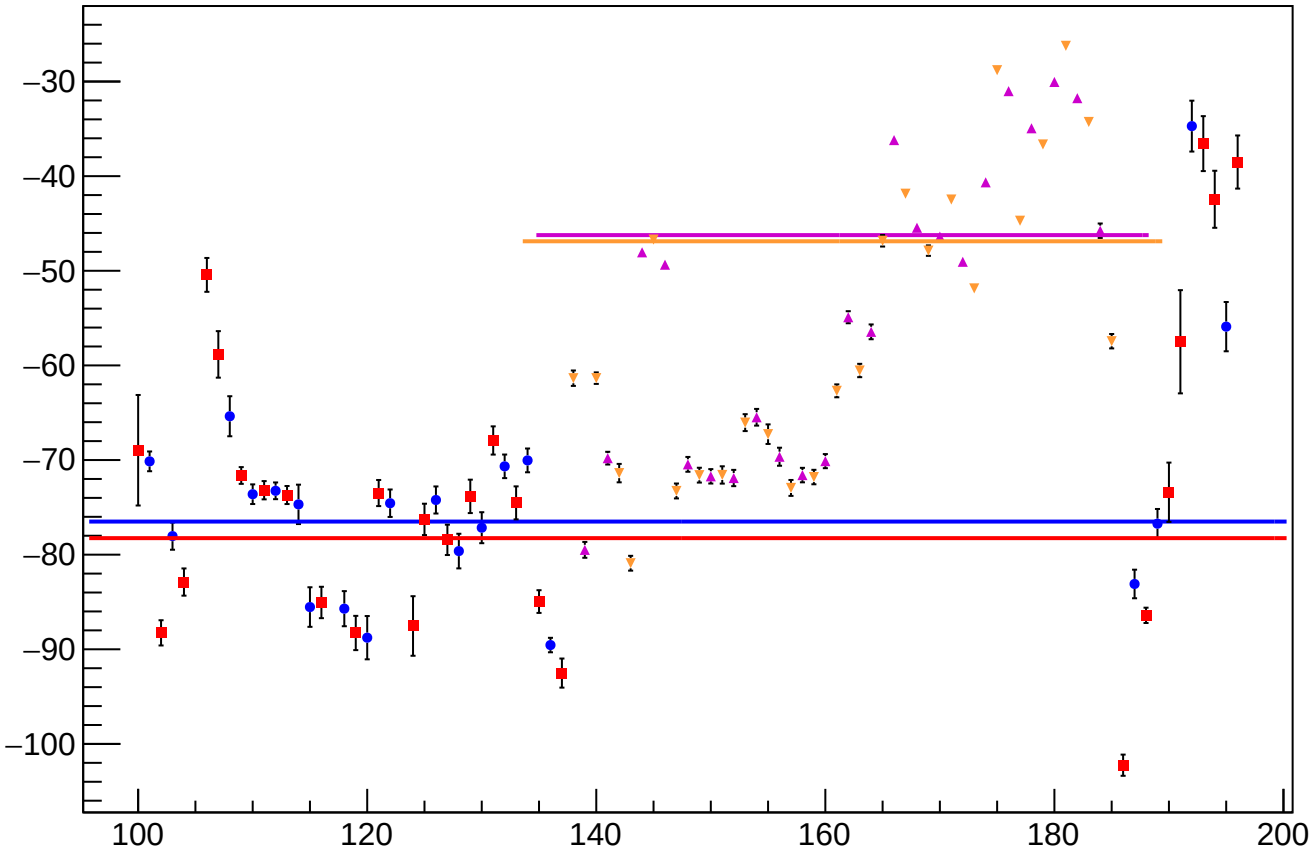
Left: 6.598+/-0.064 $\chi^2$/NDF: 8051.9/47

Right: 2.972+/-0.216 $\chi^2$/NDF: 454.0/45

In: 6.141+/-0.087 $\chi^2$/NDF:3752.7/42

Out: 6.463+/-0.086 $\chi^2$/NDF:5006.2/50

All: 6.304+/-0.061 $\chi^2$/NDF: 8765.9/93




Right In: -76.502+/-0.308 $\chi^2$/NDF: 830.2/19

Left Out: -46.883+/-0.114 $\chi^2$/NDF:17974.5/24

Right Out: -78.254+/-0.288 $\chi^2$/NDF: 1850.6/25

Left In: -46.231+/-0.116 $\chi^2$/NDF:15169.3/22

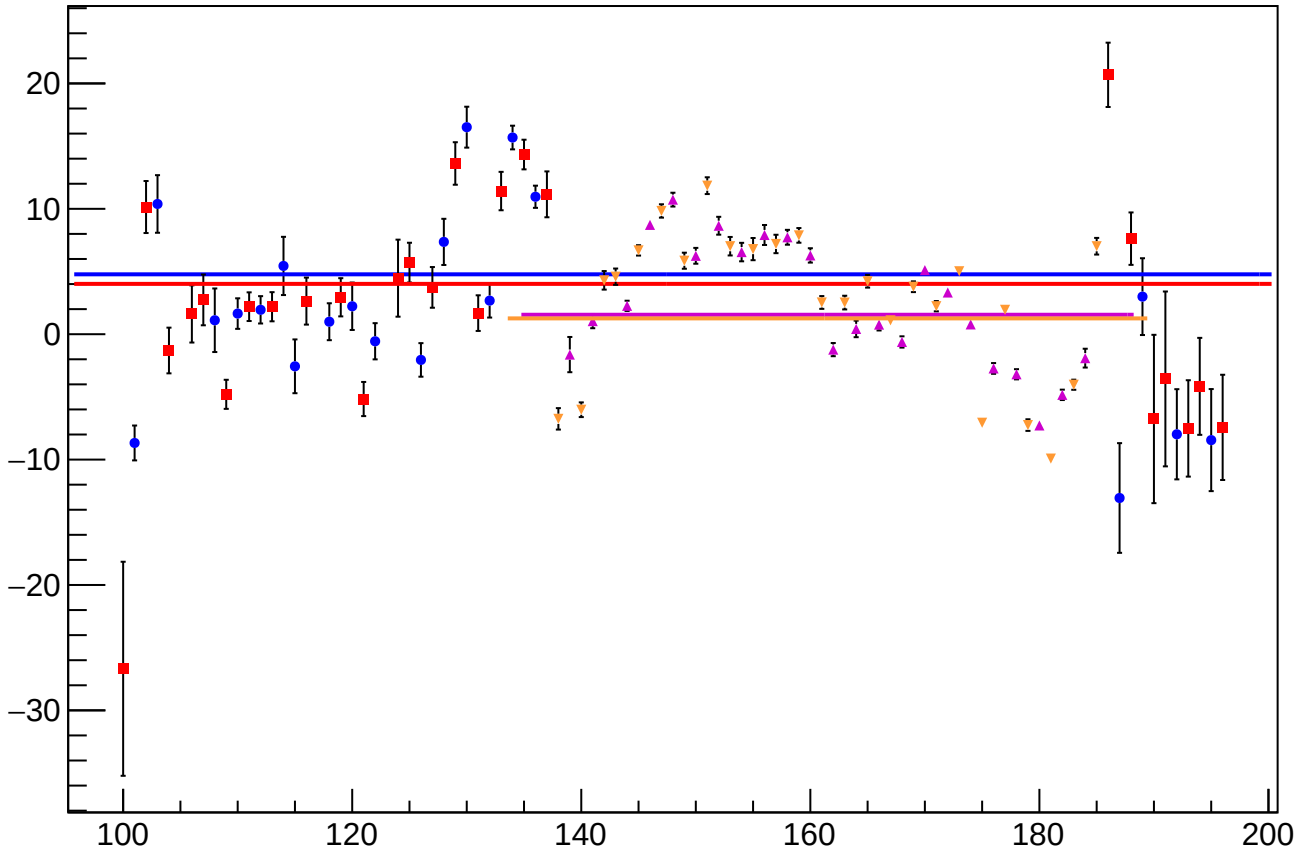
Left: -46.563+/-0.081 $\chi^2$/NDF: 33159.8/47

Right: -77.438+/-0.210 $\chi^2$/NDF: 2698.1/45

In: -50.003+/-0.109 $\chi^2$/NDF:24445.7/42

Out: -51.135+/-0.106 $\chi^2$/NDF:30106.9/50

All: -50.584+/-0.076 $\chi^2$/NDF: 54608.2/93




Right In: 4.776+/-0.344 $\chi^2$/NDF: 453.5/19

Left Out: 1.261+/-0.100 $\chi^2$/NDF:3445.7/24

Right Out: 4.014+/-0.348 $\chi^2$/NDF: 361.5/25

Left In: 1.551+/-0.102 $\chi^2$/NDF:2335.7/22

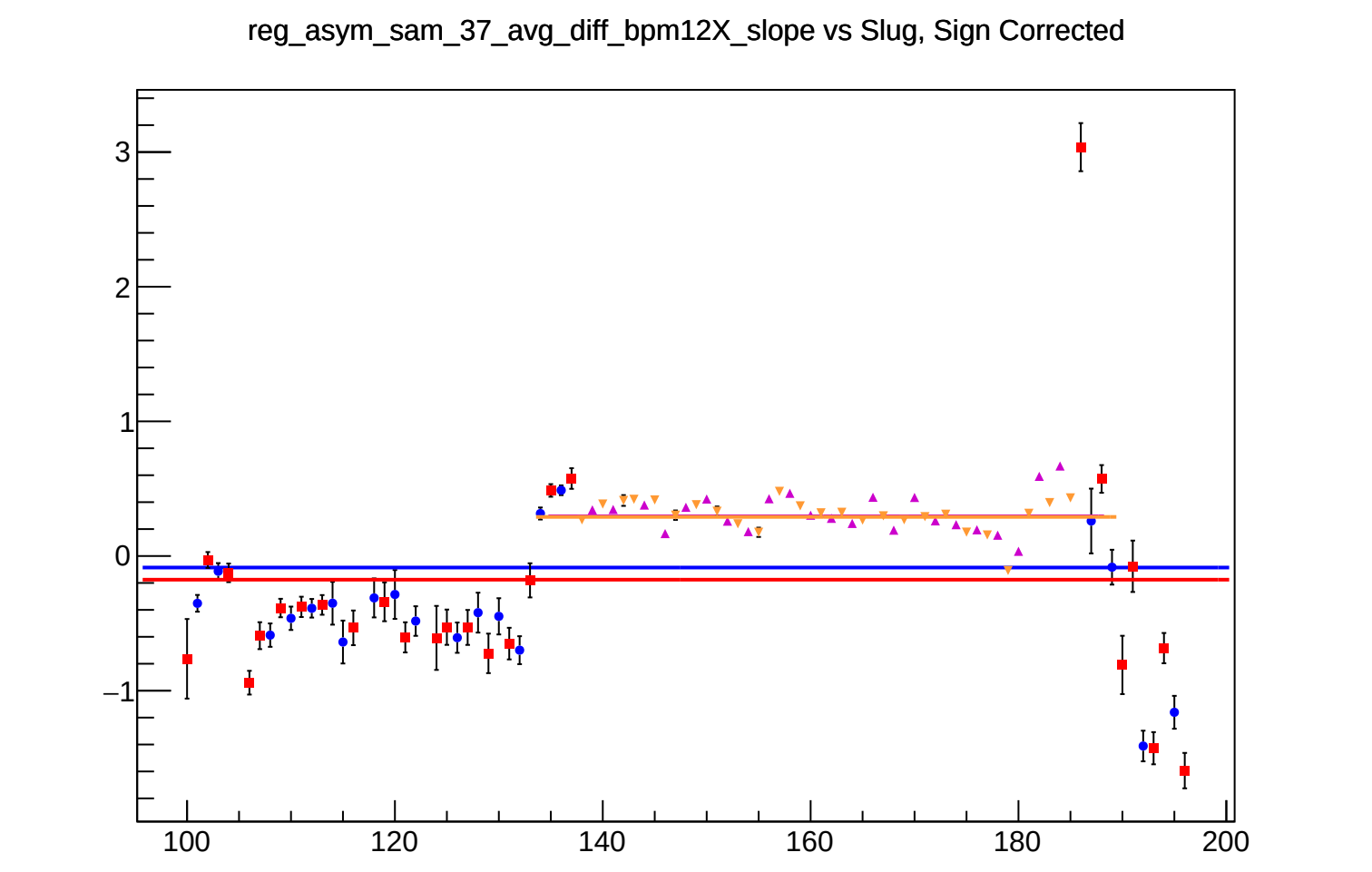
Left: 1.404+/-0.072 $\chi^2$/NDF: 5785.4/47

Right: 4.400+/-0.244 $\chi^2$/NDF: 817.4/45

In: 1.812+/-0.098 $\chi^2$/NDF:2870.2/42

Out: 1.473+/-0.096 $\chi^2$/NDF:3865.0/50

All: 1.640+/-0.069 $\chi^2$/NDF: 6741.2/93




Right In: -0.086+/-0.018 $\chi^2$/NDF: 737.7/19

Left Out: 0.290+/-0.004 $\chi^2$/NDF:719.3/24

Right Out: -0.176+/-0.019 $\chi^2$/NDF: 1127.5/25

Left In: 0.295+/-0.005 $\chi^2$/NDF:1035.4/22

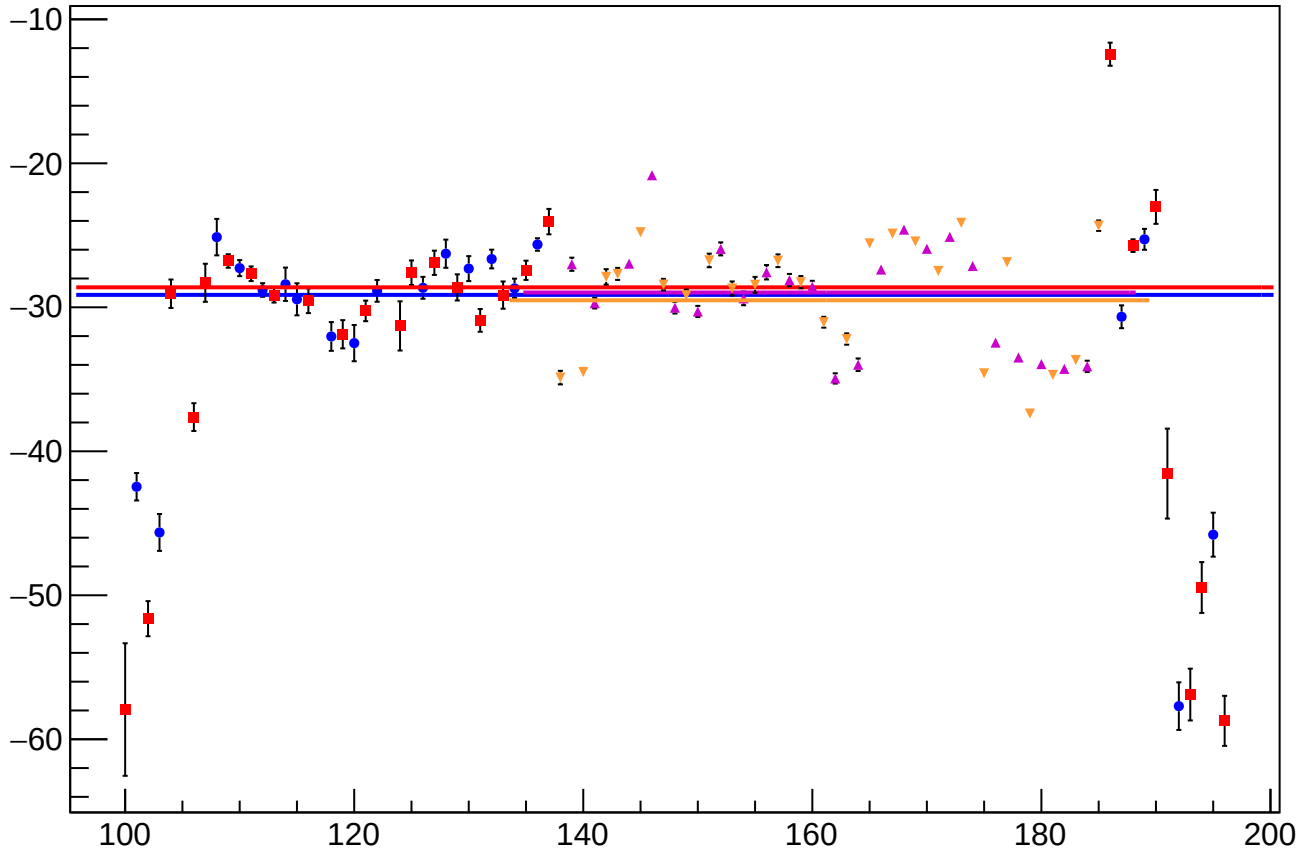
Left: 0.293+/-0.003 $\chi^2$/NDF: 1755.3/47

Right: -0.129+/-0.013 $\chi^2$/NDF: 1877.1/45

In: 0.273+/-0.004 $\chi^2$/NDF:2183.9/42

Out: 0.265+/-0.004 $\chi^2$/NDF:2428.7/50

All: 0.269+/-0.003 $\chi^2$/NDF: 4614.0/93




Right In: -29.137+/-0.173 $\chi^2$/NDF: 942.5/19

Left Out: -29.516+/-0.056 $\chi^2$/NDF:6088.5/24

Right Out: -28.613+/-0.160 $\chi^2$/NDF: 1746.0/25

Left In: -28.971+/-0.057 $\chi^2$/NDF:5348.6/22

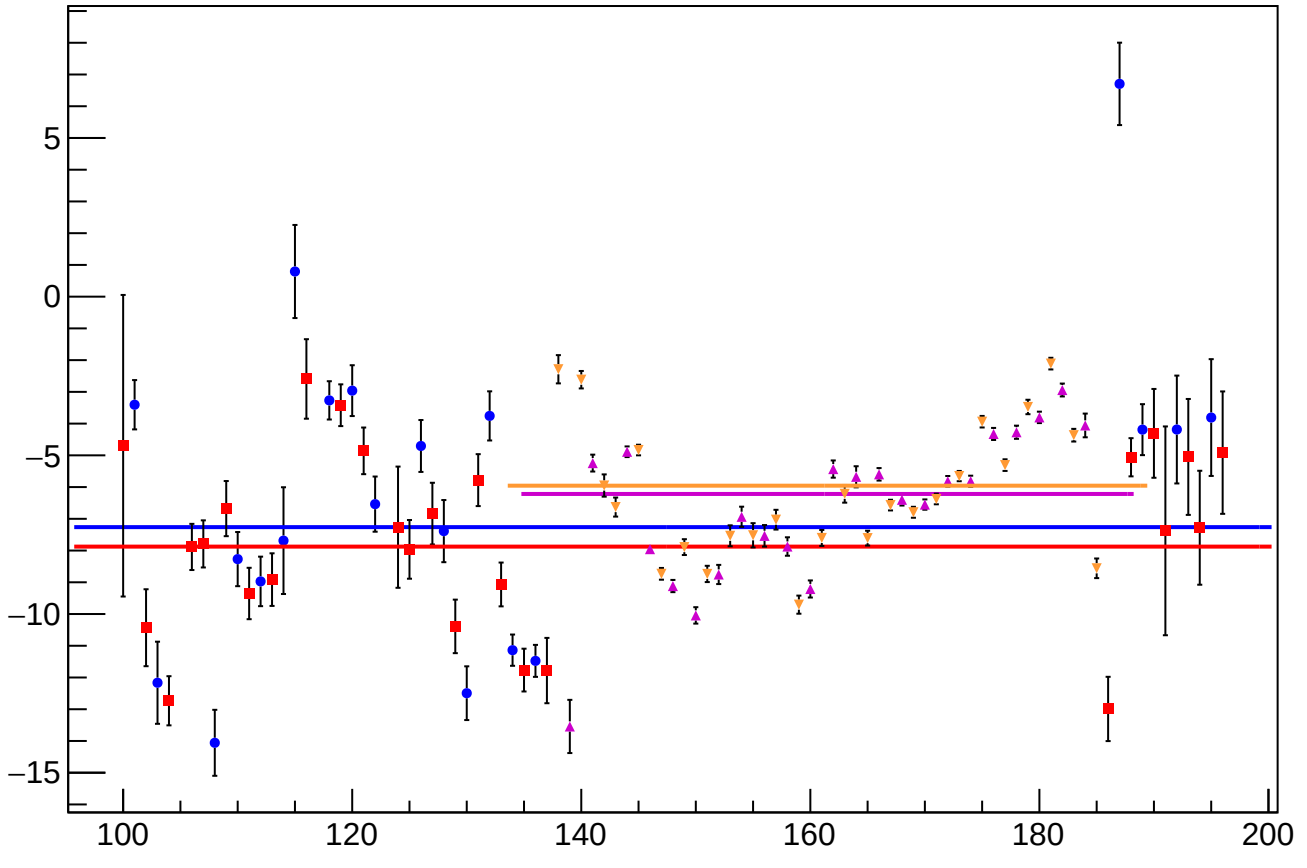
Left: -29.247+/-0.040 $\chi^2$/NDF: 11483.3/47

Right: -28.854+/-0.118 $\chi^2$/NDF: 2693.5/45

In: -28.987+/-0.054 $\chi^2$/NDF:6292.0/42

Out: -29.417+/-0.053 $\chi^2$/NDF:7862.8/50

All: -29.206+/-0.038 $\chi^2$/NDF: 14186.8/93




Right In: -7.262+/-0.185 $\chi^2$/NDF: 529.1/19

Left Out: -5.956+/-0.044 $\chi^2$/NDF:1857.8/24

Right Out: -7.876+/-0.179 $\chi^2$/NDF: 257.8/25

Left In: -6.217+/-0.044 $\chi^2$/NDF:1741.8/22

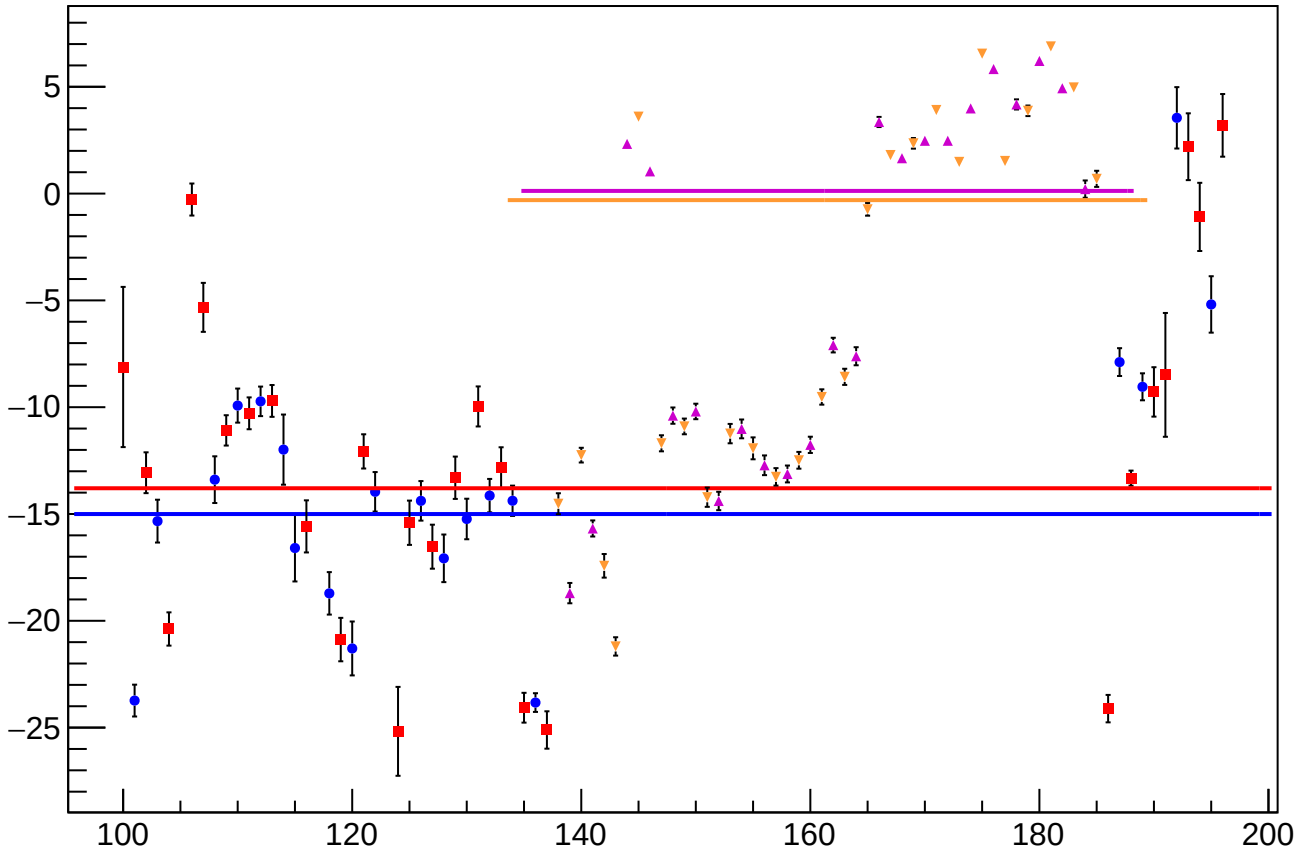
Left: -6.087+/-0.031 $\chi^2$/NDF: 3616.9/47

Right: -7.579+/-0.129 $\chi^2$/NDF: 792.5/45

In: -6.273+/-0.043 $\chi^2$/NDF:2300.9/42

Out: -6.067+/-0.043 $\chi^2$/NDF:2223.5/50

All: -6.170+/-0.030 $\chi^2$/NDF: 4535.8/93




Right In: -15.003+/-0.187 $\chi^2$/NDF: 1125.3/19

Left Out: -0.306+/-0.057 $\chi^2$/NDF:17181.6/24

Right Out: -13.795+/-0.168 $\chi^2$/NDF: 1598.1/25

Left In: 0.125+/-0.057 $\chi^2$/NDF:13838.6/22

Left: -0.092+/-0.040 $\chi^2$/NDF: 31049.0/47

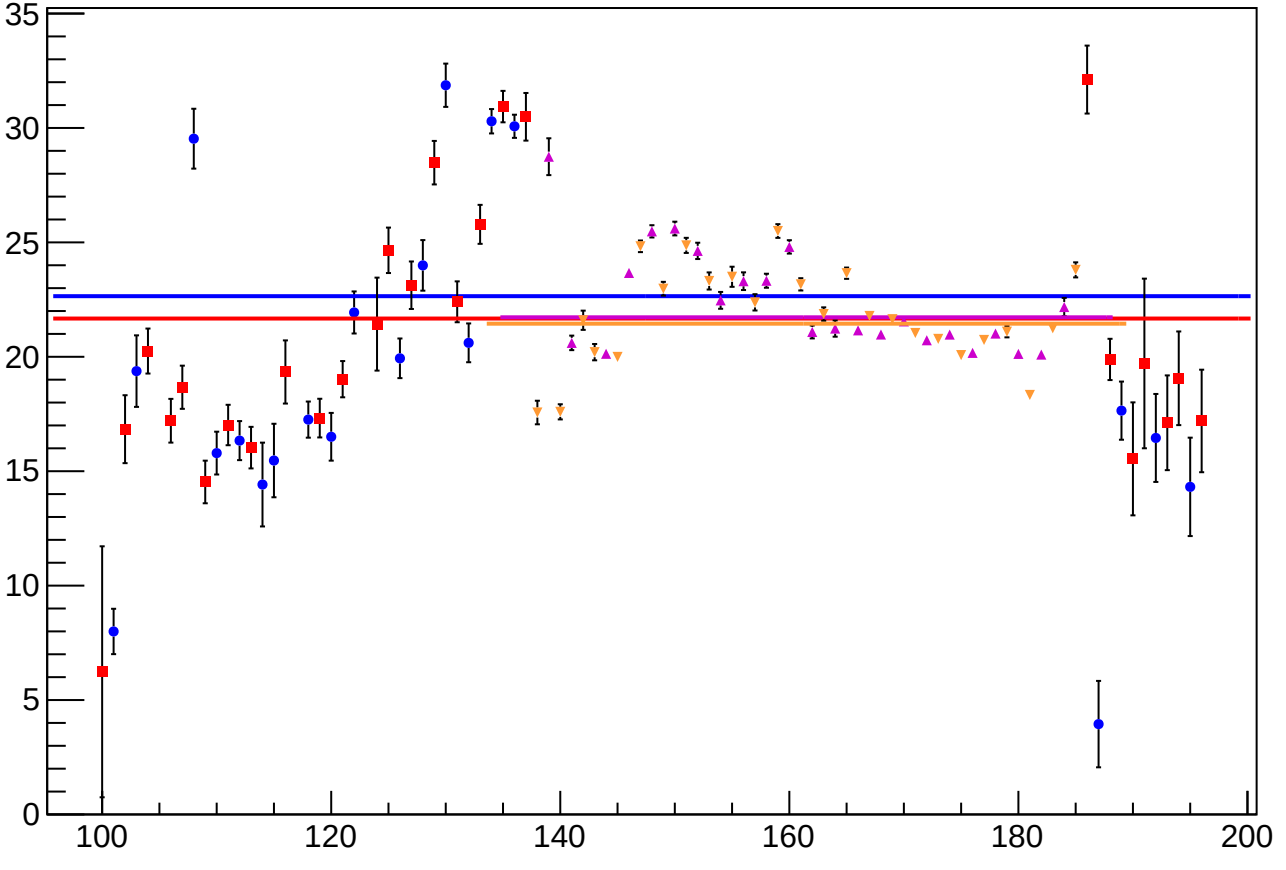
Right: -14.336+/-0.125 $\chi^2$/NDF: 2746.5/45

In: -1.167+/-0.055 $\chi^2$/NDF:20978.1/42

Out: -1.679+/-0.054 $\chi^2$/NDF:24567.5/50

All: -1.427+/-0.038 $\chi^2$/NDF: 45590.4/93

reg_asym_sam_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 22.649+/-0.211 $\chi^2$/NDF: 1153.8/19

Left Out: 21.447+/-0.050 $\chi^2$/NDF:1325.2/24

Right Out: 21.672+/-0.211 $\chi^2$/NDF: 628.6/25

Left In: 21.725+/-0.050 $\chi^2$/NDF:1173.7/22

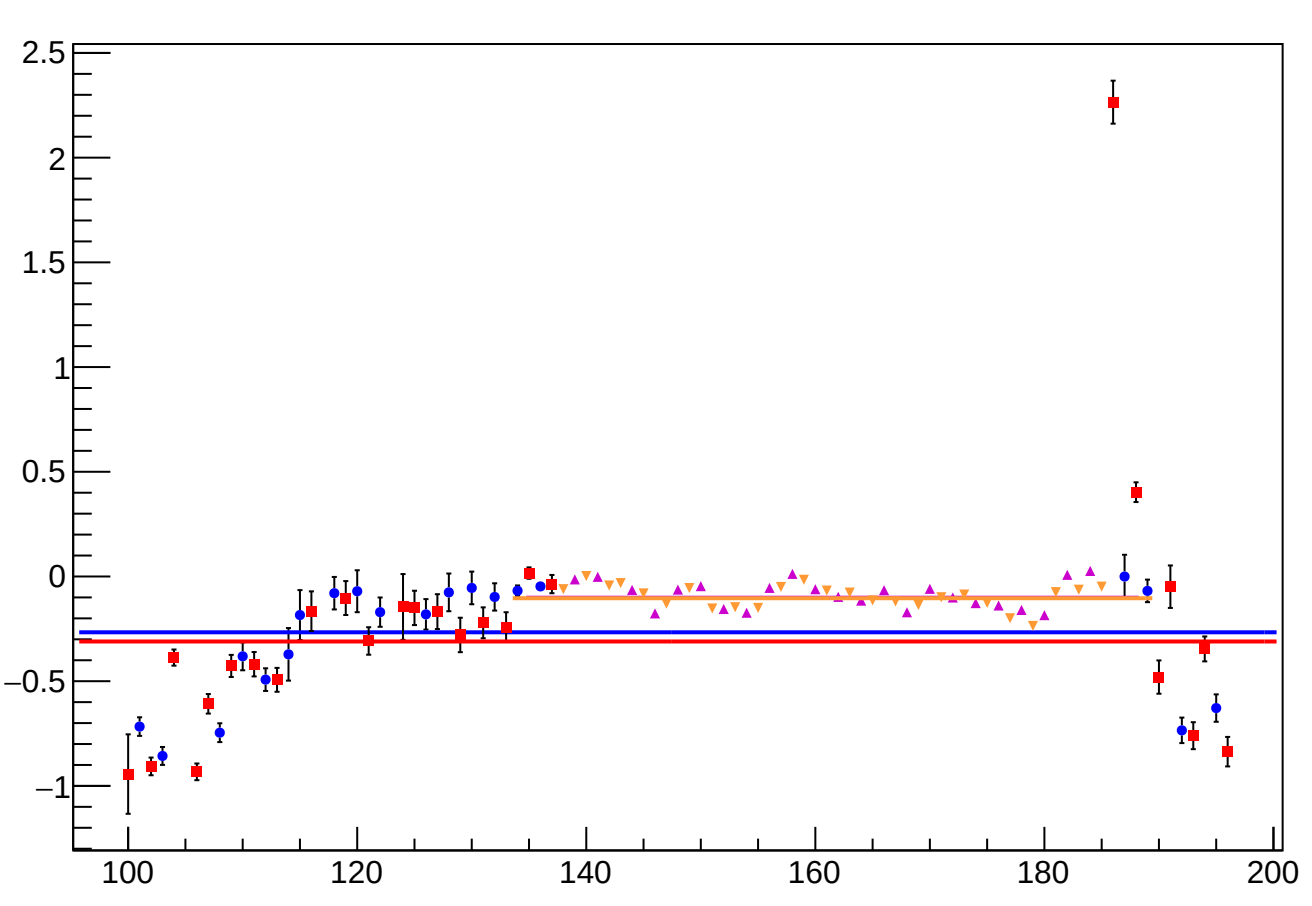
Left: 21.586+/-0.035 $\chi^2$/NDF: 2514.7/47

Right: 22.160+/-0.149 $\chi^2$/NDF: 1793.2/45

In: 21.774+/-0.048 $\chi^2$/NDF:2345.7/42

Out: 21.459+/-0.048 $\chi^2$/NDF:1954.9/50

All: 21.616+/-0.034 $\chi^2$/NDF: 4321.9/93




Right In: -0.266+/-0.011 $\chi^2$/NDF: 745.3/19

Left Out: -0.104+/-0.002 $\chi^2$/NDF:547.4/24

Right Out: -0.310+/-0.011 $\chi^2$/NDF: 1697.3/25

Left In: -0.101+/-0.002 $\chi^2$/NDF:757.6/22

Left: -0.103+/-0.002 $\chi^2$/NDF: 1305.7/47

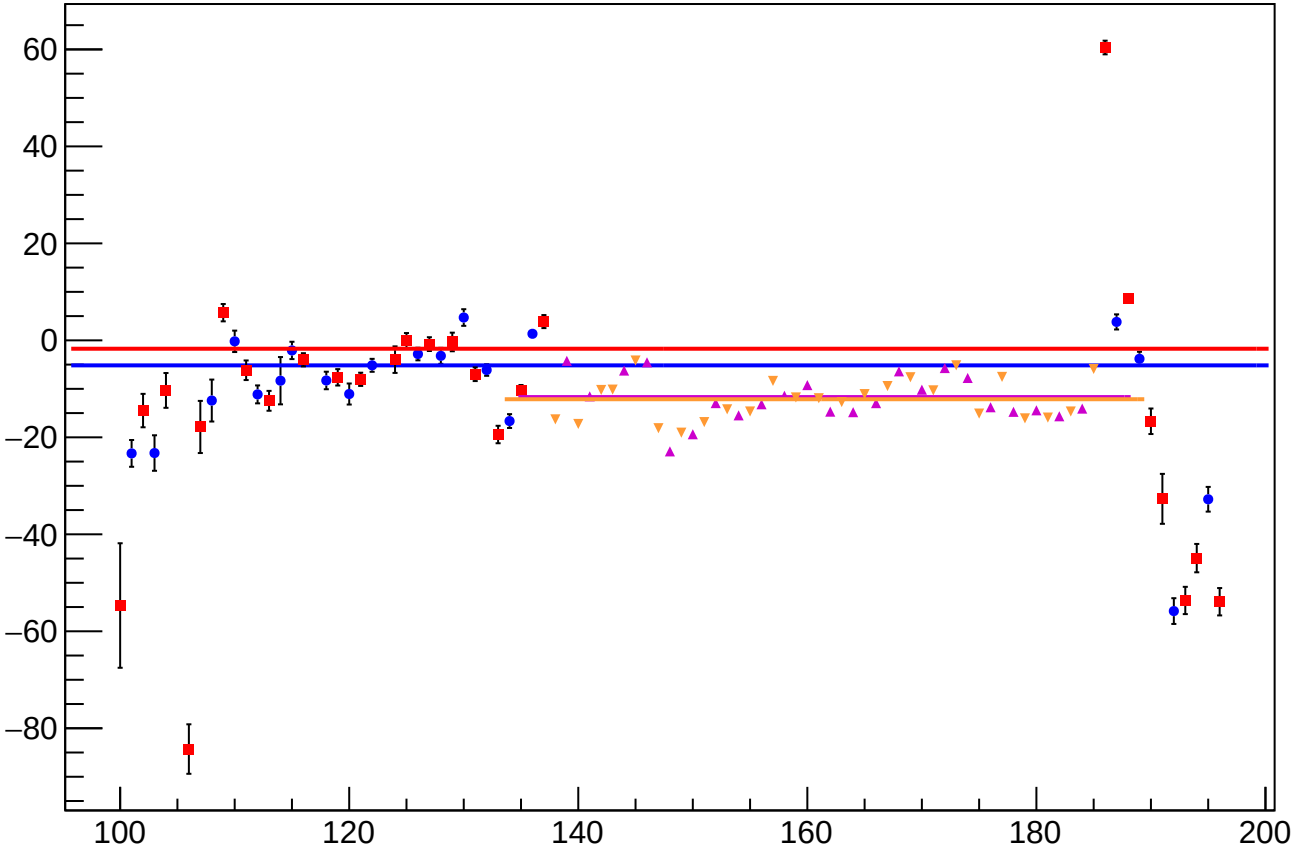
Right: -0.288+/-0.008 $\chi^2$/NDF: 2450.5/45

In: -0.108+/-0.002 $\chi^2$/NDF:1720.3/42

Out: -0.112+/-0.002 $\chi^2$/NDF:2577.1/50

All: -0.110+/-0.002 $\chi^2$/NDF: 4298.9/93

reg_asym_sam_26_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -5.160+/-0.353 $\chi^2$/NDF: 810.7/19

Left Out: -12.143+/-0.092 $\chi^2$/NDF:2130.5/24

Right Out: -1.728+/-0.342 $\chi^2$/NDF: 3661.1/25

Left In: -11.698+/-0.094 $\chi^2$/NDF:1951.0/22

Left: -11.927+/-0.066 $\chi^2$/NDF: 4092.9/47

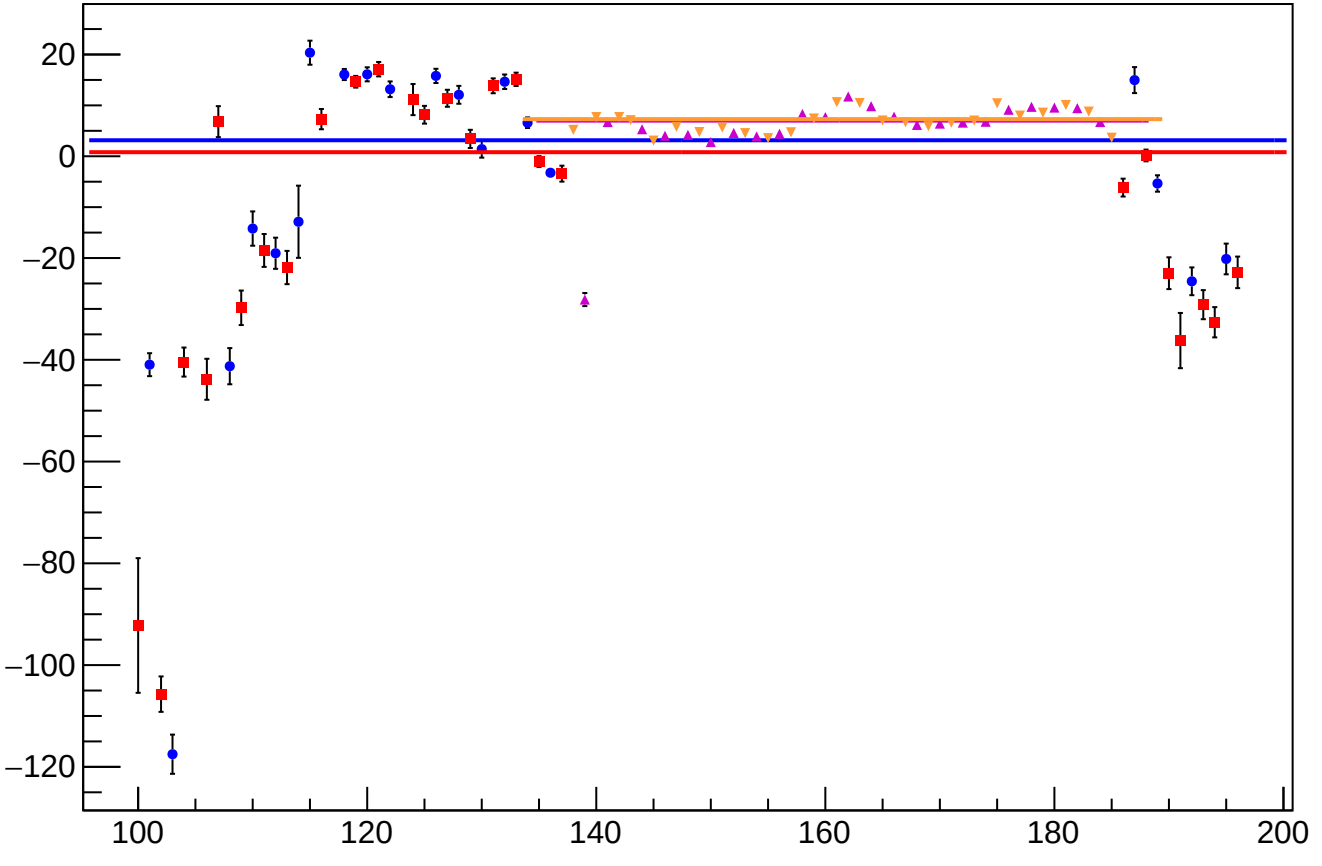
Right: -3.391+/-0.245 $\chi^2$/NDF: 4520.7/45

In: -11.262+/-0.091 $\chi^2$/NDF:3082.5/42

Out: -11.447+/-0.088 $\chi^2$/NDF:6657.6/50

All: -11.357+/-0.063 $\chi^2$/NDF: 9742.2/93

reg_asym_sam_26_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 3.146+/-0.365 $\chi^2$/NDF: 2389.9/19

Left Out: 7.297+/-0.075 $\chi^2$/NDF:822.9/24

Right Out: 0.801+/-0.374 $\chi^2$/NDF: 2469.7/25

Left In: 7.004+/-0.076 $\chi^2$/NDF:1576.0/22

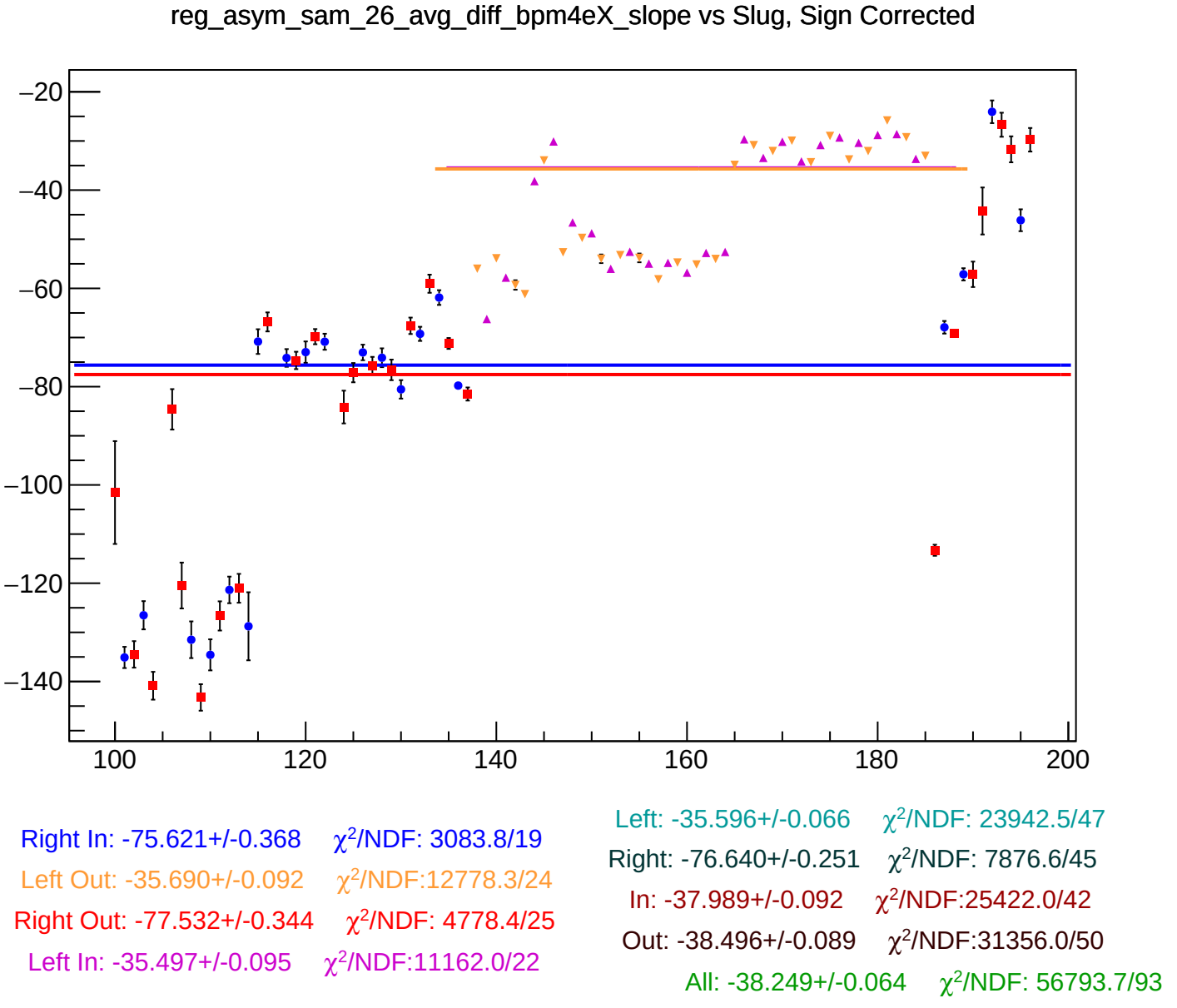
Left: 7.153+/-0.053 $\chi^2$/NDF: 2406.4/47

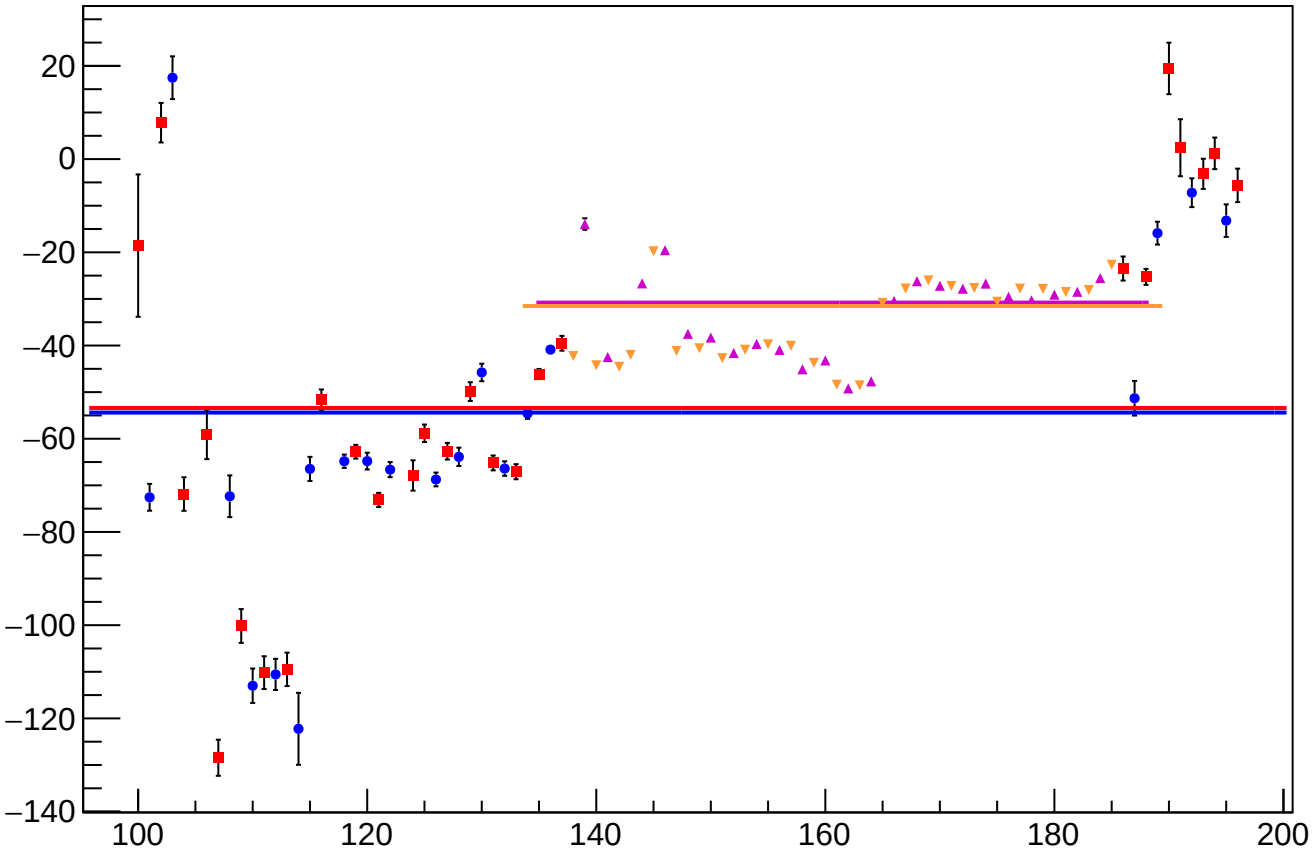
Right: 2.003+/-0.261 $\chi^2$/NDF: 4879.8/45

In: 6.844+/-0.074 $\chi^2$/NDF:4073.3/42

Out: 7.046+/-0.073 $\chi^2$/NDF:3582.7/50

All: 6.946+/-0.052 $\chi^2$/NDF: 7659.8/93


reg_asym_sam_26_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
−20
−40
−60
−80
−100
−120
−140
100
120
140
160
180
200
Right In: -75.621+/-0.368 χ²/NDF: 3083.8/19
Left Out: -35.690+/-0.092 χ²/NDF:12778.3/24
Right Out: -77.532+/-0.344 χ²/NDF: 4778.4/25
Left In: -35.497+/-0.095 χ²/NDF:11162.0/22
Left: -35.596+/-0.066 χ²/NDF: 23942.5/47
Right: -76.640+/-0.251 χ²/NDF: 7876.6/45
In: -37.989+/-0.092 χ²/NDF:25422.0/42
Out: -38.496+/-0.089 χ²/NDF:31356.0/50
All: -38.249+/-0.064 χ²/NDF: 56793.7/93




Right In: -54.384+/-0.410 $\chi^2$/NDF: 2185.7/19

Left Out: -31.520+/-0.083 $\chi^2$/NDF:8457.7/24

Right Out: -53.393+/-0.433 $\chi^2$/NDF: 3141.3/25

Left In: -30.789+/-0.084 $\chi^2$/NDF:7548.8/22

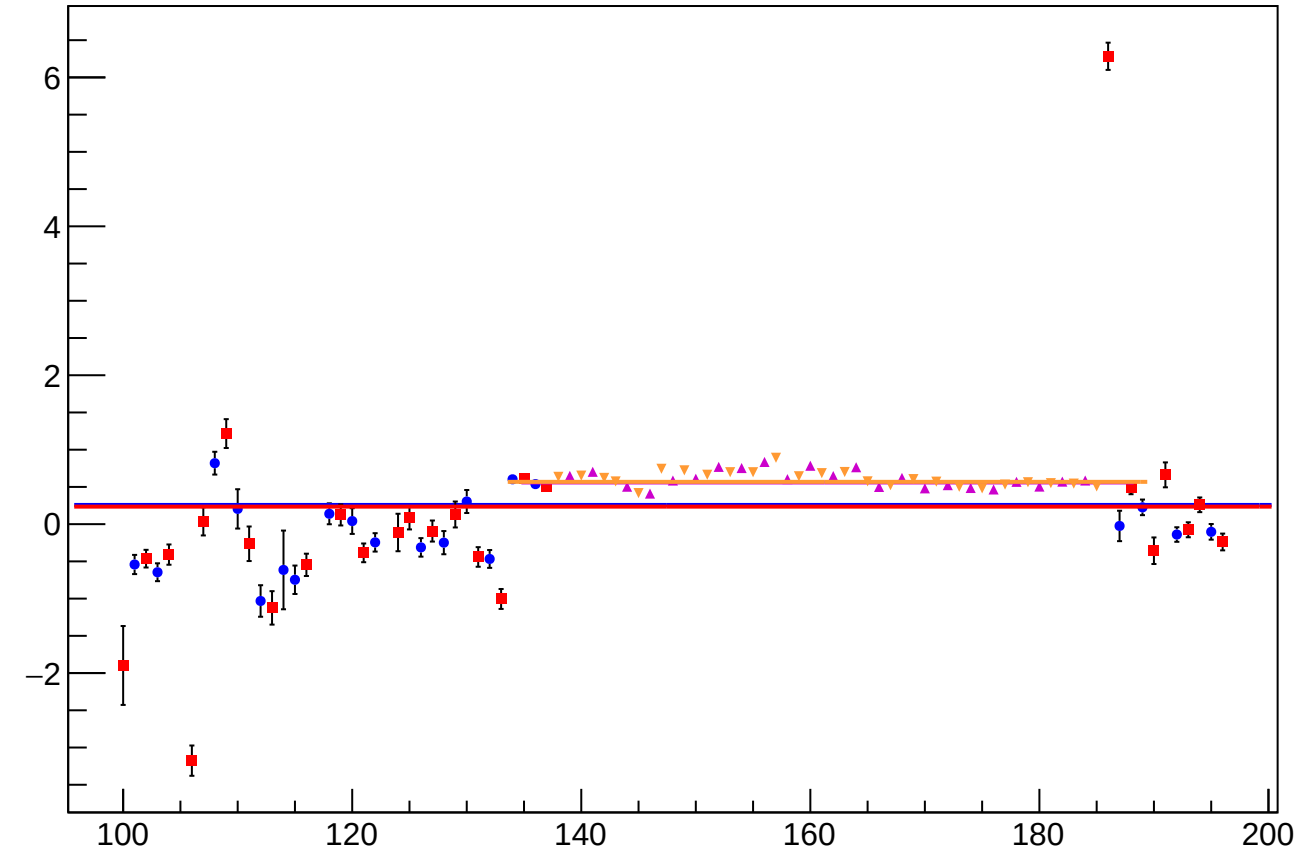
Left: -31.161+/-0.059 $\chi^2$/NDF: 16044.8/47

Right: -53.915+/-0.298 $\chi^2$/NDF: 5329.7/45

In: -31.745+/-0.083 $\chi^2$/NDF:12908.8/42

Out: -32.292+/-0.081 $\chi^2$/NDF:14062.2/50

All: -32.023+/-0.058 $\chi^2$/NDF: 26993.3/93




Right In: 0.258+/-0.021 $\chi^2$/NDF: 408.9/19

Left Out: 0.568+/-0.004 $\chi^2$/NDF:554.5/24

Right Out: 0.235+/-0.023 $\chi^2$/NDF: 1835.4/25

Left In: 0.560+/-0.004 $\chi^2$/NDF:671.5/22

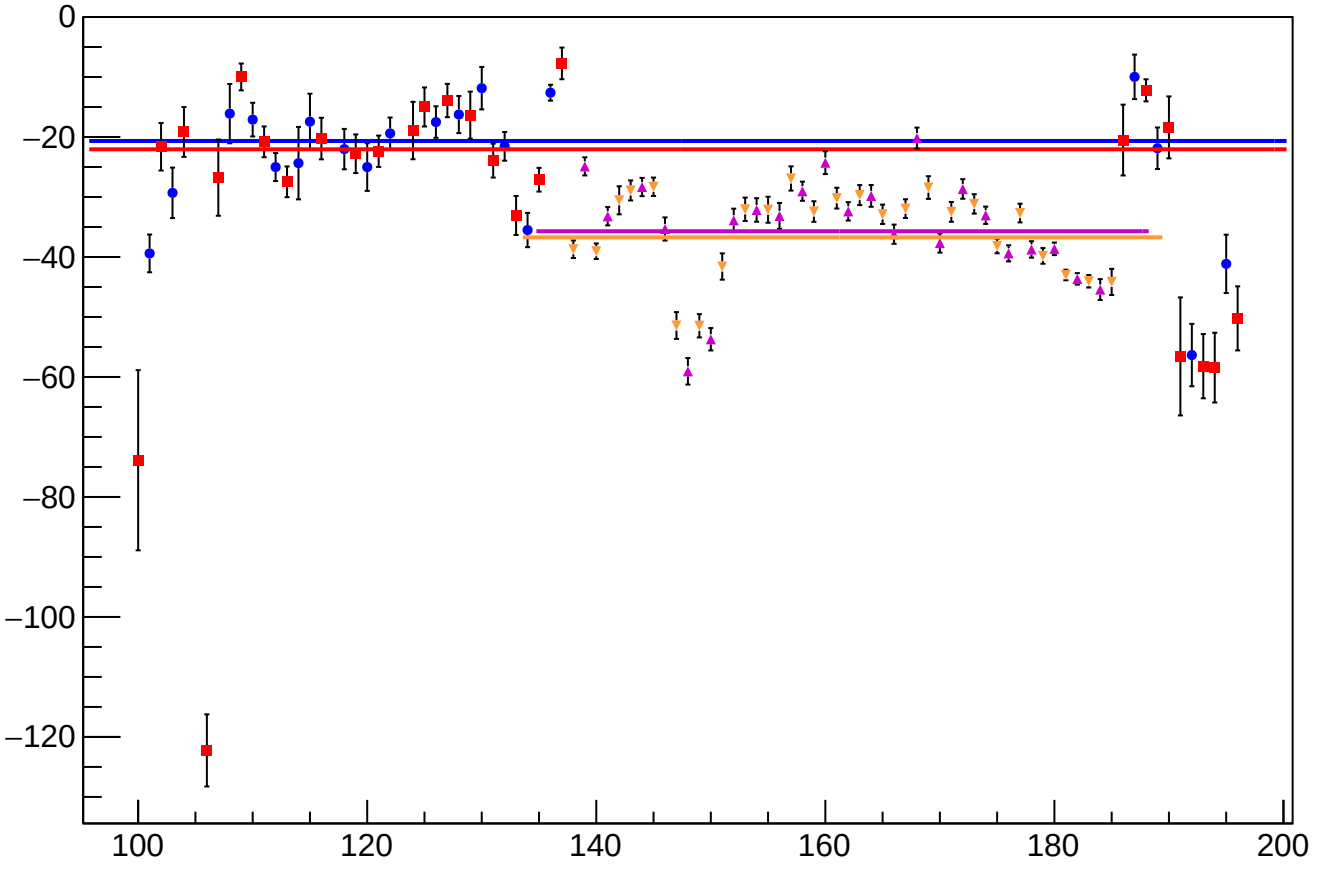
Left: 0.564+/-0.003 $\chi^2$/NDF: 1228.5/47

Right: 0.247+/-0.016 $\chi^2$/NDF: 2244.8/45

In: 0.551+/-0.004 $\chi^2$/NDF:1275.6/42

Out: 0.560+/-0.004 $\chi^2$/NDF:2599.5/50

All: 0.555+/-0.003 $\chi^2$/NDF: 3878.1/93




Right In: -20.664+/-0.658 $\chi^2$/NDF: 194.9/19

Left Out: -36.724+/-0.310 $\chi^2$/NDF:420.8/24

Right Out: -22.050+/-0.641 $\chi^2$/NDF: 542.6/25

Left In: -35.706+/-0.323 $\chi^2$/NDF:578.6/22

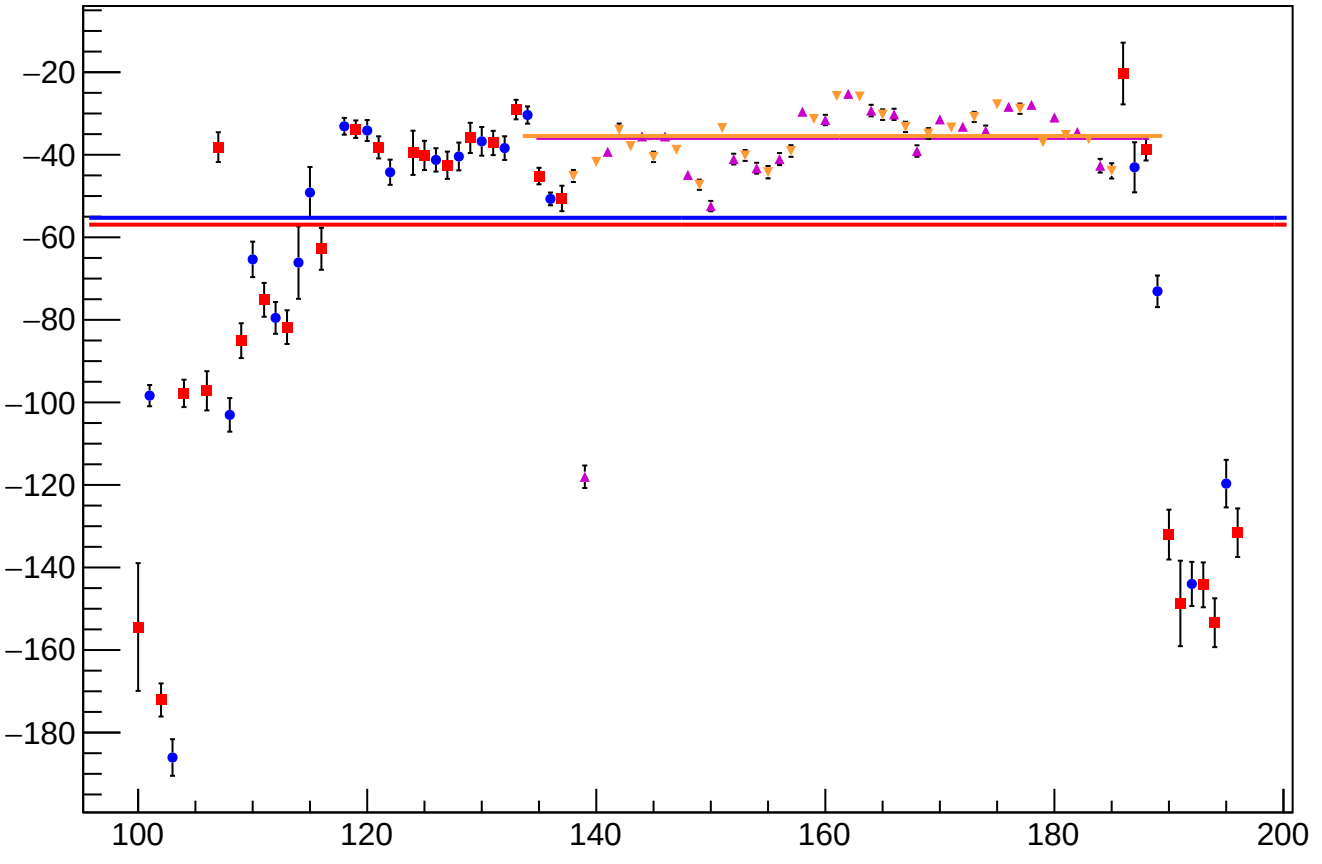
Left: -36.236+/-0.224 $\chi^2$/NDF: 1004.6/47

Right: -21.375+/-0.459 $\chi^2$/NDF: 739.8/45

In: -32.785+/-0.290 $\chi^2$/NDF:1194.2/42

Out: -33.938+/-0.279 $\chi^2$/NDF:1388.2/50

All: -33.384+/-0.201 $\chi^2$/NDF: 2590.6/93




Right In: -55.269+/-0.681 $\chi^2$/NDF: 2222.0/19

Left Out: -35.442+/-0.245 $\chi^2$/NDF:537.8/24

Right Out: -56.929+/-0.694 $\chi^2$/NDF: 2684.3/25

Left In: -35.913+/-0.256 $\chi^2$/NDF:1543.1/22

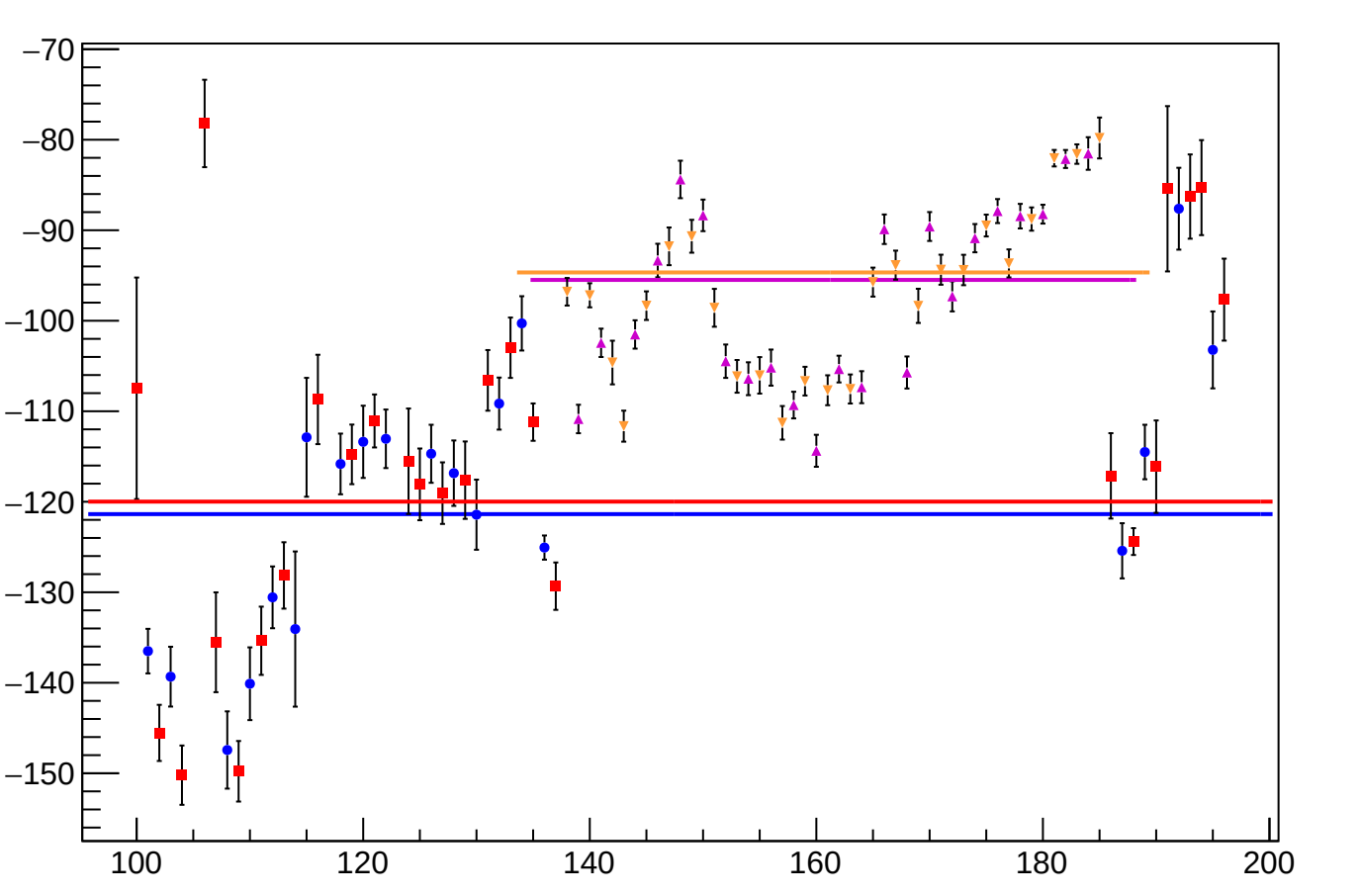
Left: -35.667+/-0.177 $\chi^2$/NDF: 2082.7/47

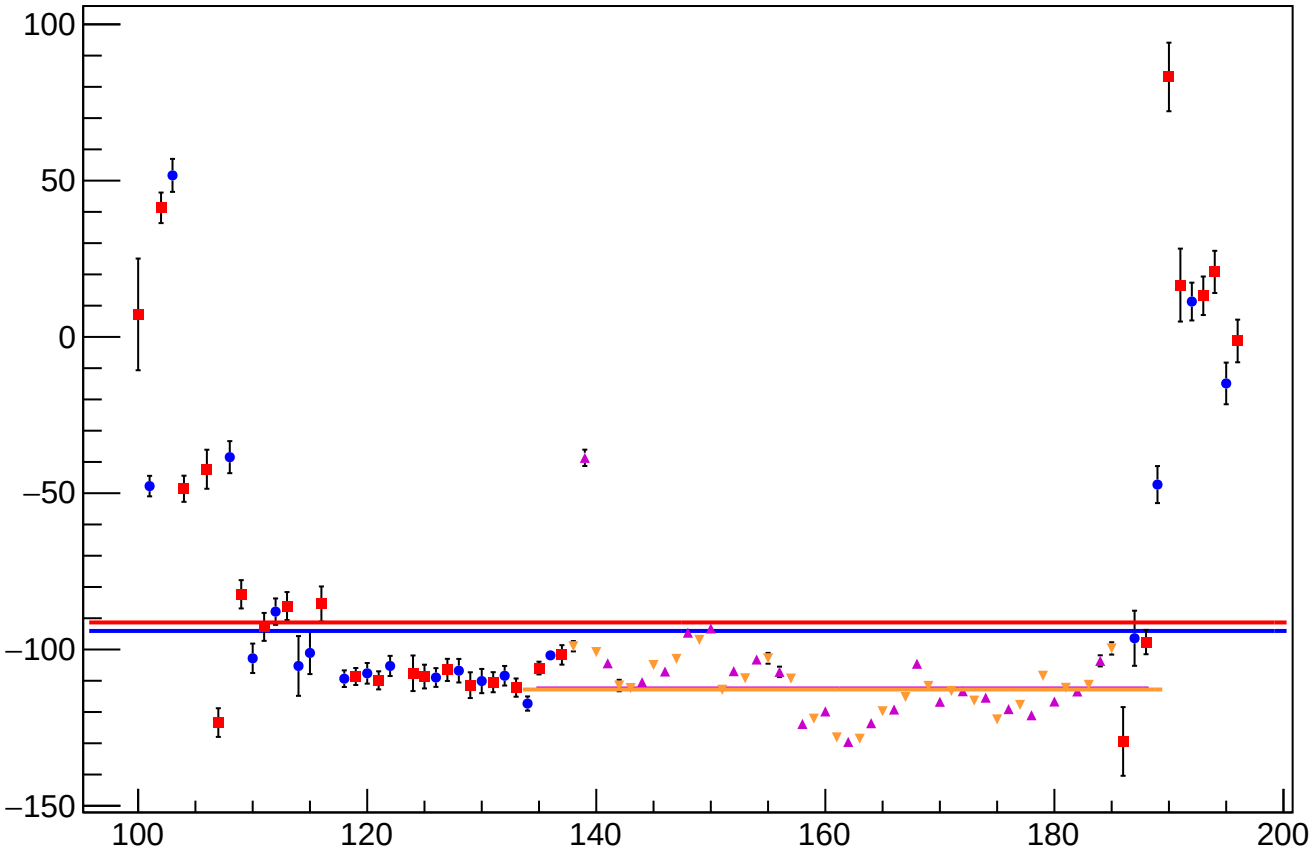
Right: -56.084+/-0.486 $\chi^2$/NDF: 4909.3/45

In: -38.310+/-0.240 $\chi^2$/NDF:4472.4/42

Out: -37.823+/-0.231 $\chi^2$/NDF:4075.2/50

All: -38.057+/-0.166 $\chi^2$/NDF: 8549.8/93


reg_asym_sam_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
−70
−80
−90
−100
−110
−120
−130
−140
−150
100
120
140
160
180
200
Right In: -121.366+/-0.690 χ²/NDF: 312.6/19
Left Out: -94.663+/-0.310 χ²/NDF:900.1/24
Right Out: -119.985+/-0.668 χ²/NDF: 573.3/25
Left In: -95.489+/-0.321 χ²/NDF:970.1/22
Left: -95.061+/-0.223 χ²/NDF: 1873.6/47
Right: -120.654+/-0.480 χ²/NDF: 888.0/45
In: -100.096+/-0.291 χ²/NDF:2438.5/42
Out: -99.143+/-0.281 χ²/NDF:2655.2/50
All: -99.603+/-0.202 χ²/NDF: 5099.2/93




Right In: -94.062+/-0.771 $\chi^2$/NDF: 1860.4/19

Left Out: -112.794+/-0.274 $\chi^2$/NDF:936.4/24

Right Out: -91.346+/-0.799 $\chi^2$/NDF: 2381.9/25

Left In: -112.465+/-0.285 $\chi^2$/NDF:1788.6/22

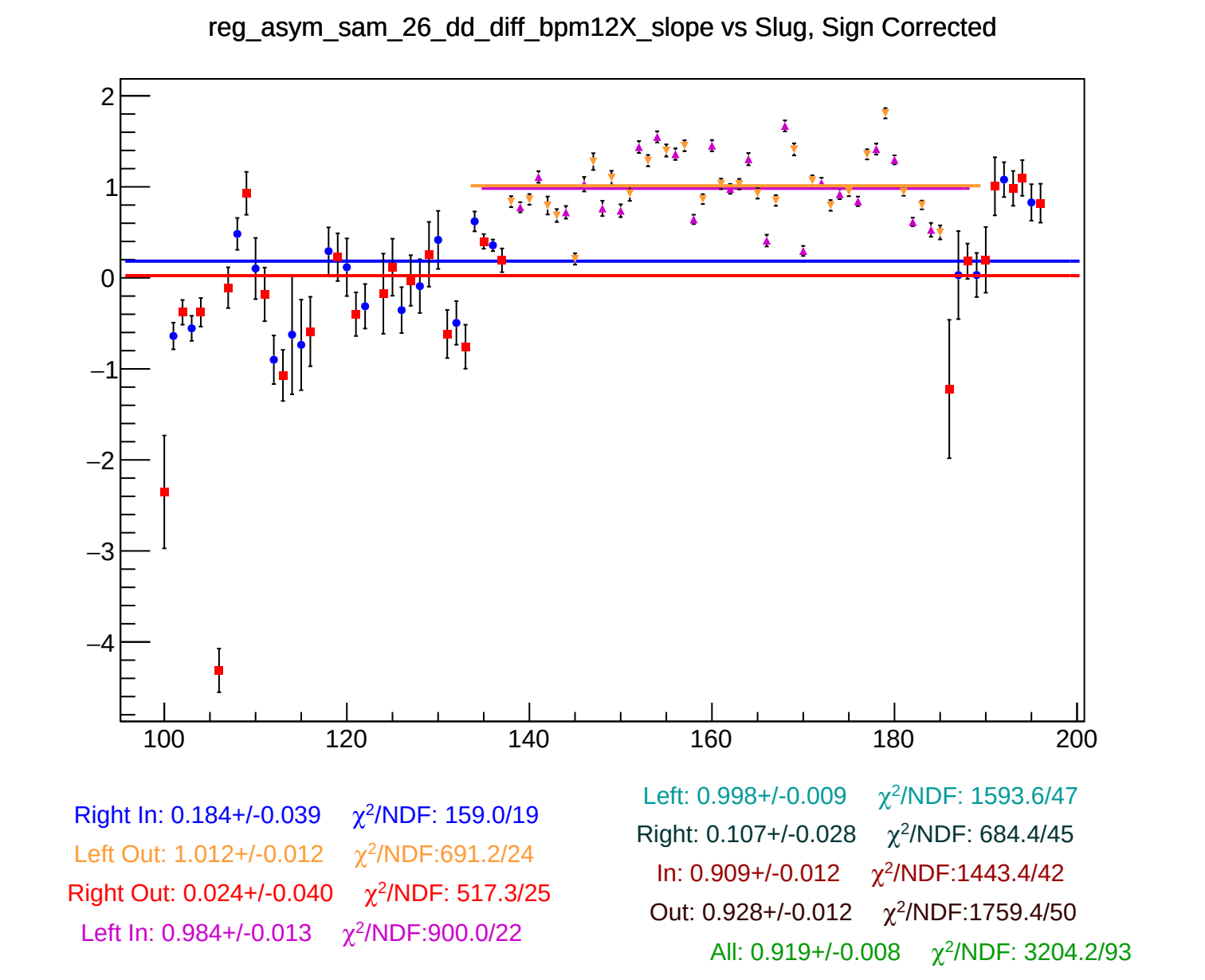
Left: -112.636+/-0.197 $\chi^2$/NDF: 2725.7/47

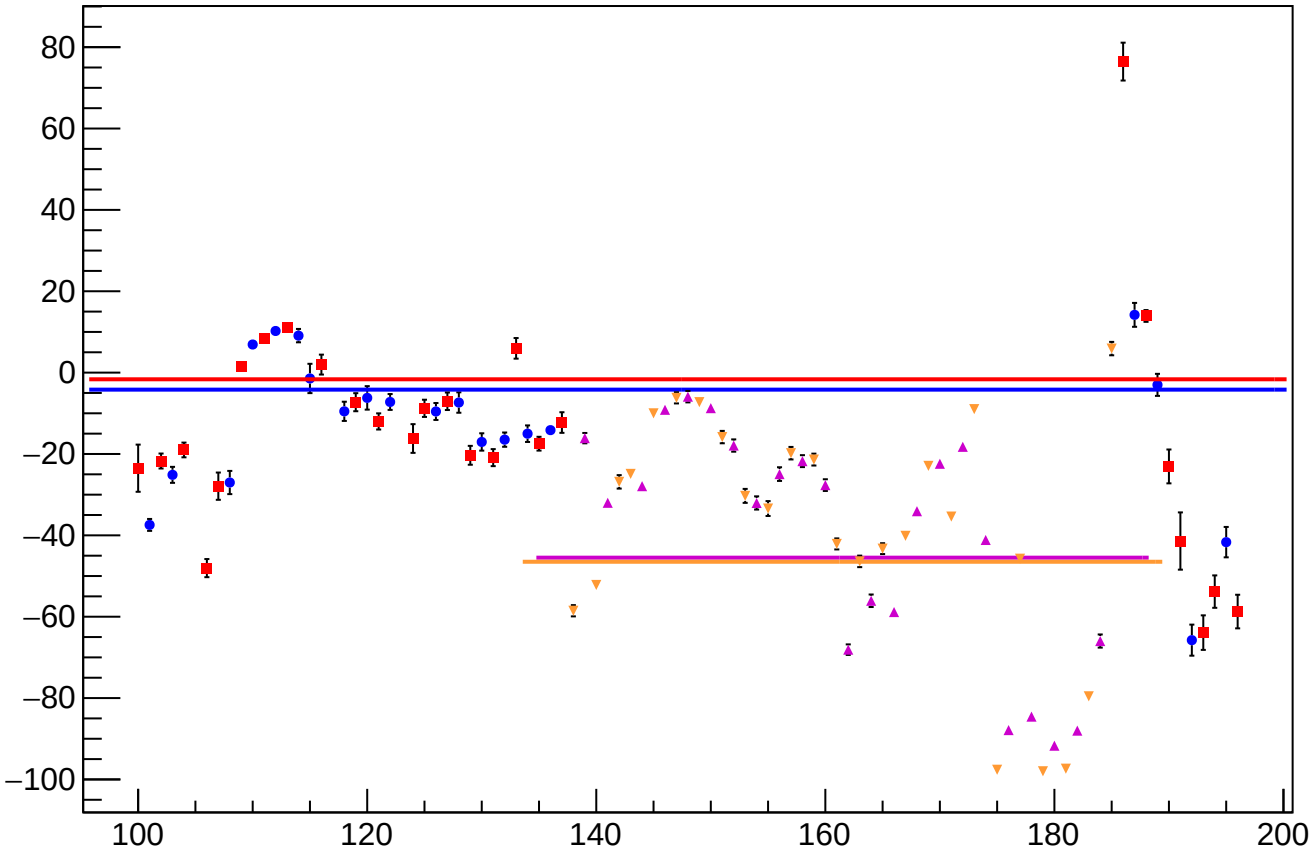
Right: -92.751+/-0.555 $\chi^2$/NDF: 4248.3/45

In: -110.256+/-0.267 $\chi^2$/NDF:4150.1/42

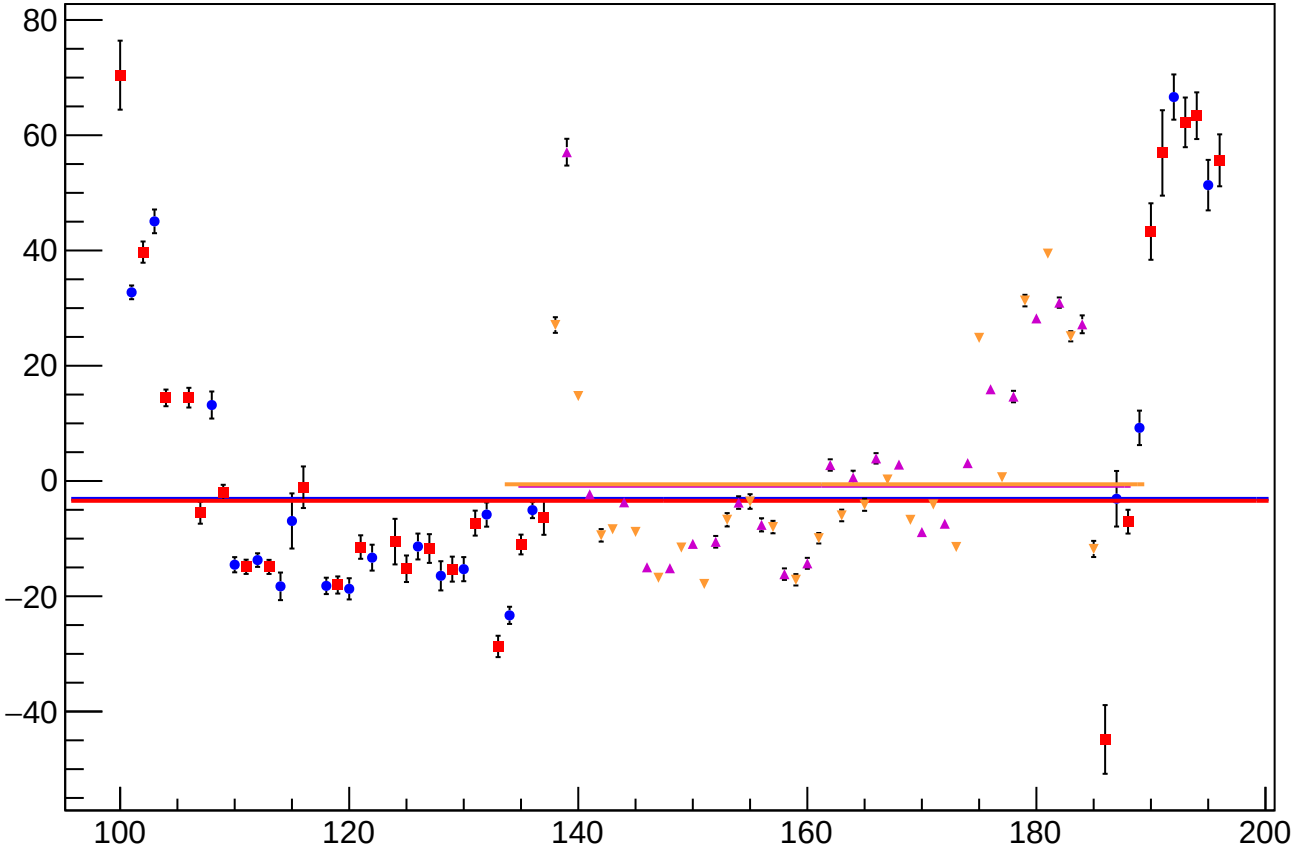
Out: -110.534+/-0.259 $\chi^2$/NDF:3963.6/50

All: -110.400+/-0.186 $\chi^2$/NDF: 8114.2/93


reg_asym_sam_26_dd_diff_bpm12X_slope vs Slug, Sign Corrected
2
1
0
−1
−2
−3
−4
100
120
140
160
180
200
Right In: 0.184+/-0.039 χ²/NDF: 159.0/19
Left Out: 1.012+/-0.012 χ²/NDF:691.2/24
Right Out: 0.024+/-0.040 χ²/NDF: 517.3/25
Left In: 0.984+/-0.013 χ²/NDF:900.0/22
Left: 0.998+/-0.009 χ²/NDF: 1593.6/47
Right: 0.107+/-0.028 χ²/NDF: 684.4/45
In: 0.909+/-0.012 χ²/NDF:1443.4/42
Out: 0.928+/-0.012 χ²/NDF:1759.4/50
All: 0.919+/-0.008 χ²/NDF: 3204.2/93


reg_asym_sam_48_avg_diff_bpm1X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
100
120
140
160
180
200
Right In: -4.183+/-0.367 χ²/NDF: 1932.4/19
Left Out: -46.493+/-0.230 χ²/NDF:20046.7/24
Right Out: -1.640+/-0.324 χ²/NDF: 2558.3/25
Left In: -45.487+/-0.238 χ²/NDF:15571.1/22
Left: -46.006+/-0.165 χ²/NDF: 35627.0/47
Right: -2.757+/-0.243 χ²/NDF: 4517.6/45
In: -33.267+/-0.199 χ²/NDF:26437.2/42
Out: -31.476+/-0.188 χ²/NDF:35328.3/50
All: -32.317+/-0.137 χ²/NDF: 61808.3/93

reg_asym_sam_48_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -3.107+/-0.420 $\chi^2$/NDF: 2649.2/19

Left Out: -0.572+/-0.177 $\chi^2$/NDF:8451.5/24

Right Out: -3.435+/-0.405 $\chi^2$/NDF: 2416.7/25

Left In: -0.828+/-0.183 $\chi^2$/NDF:6116.6/22

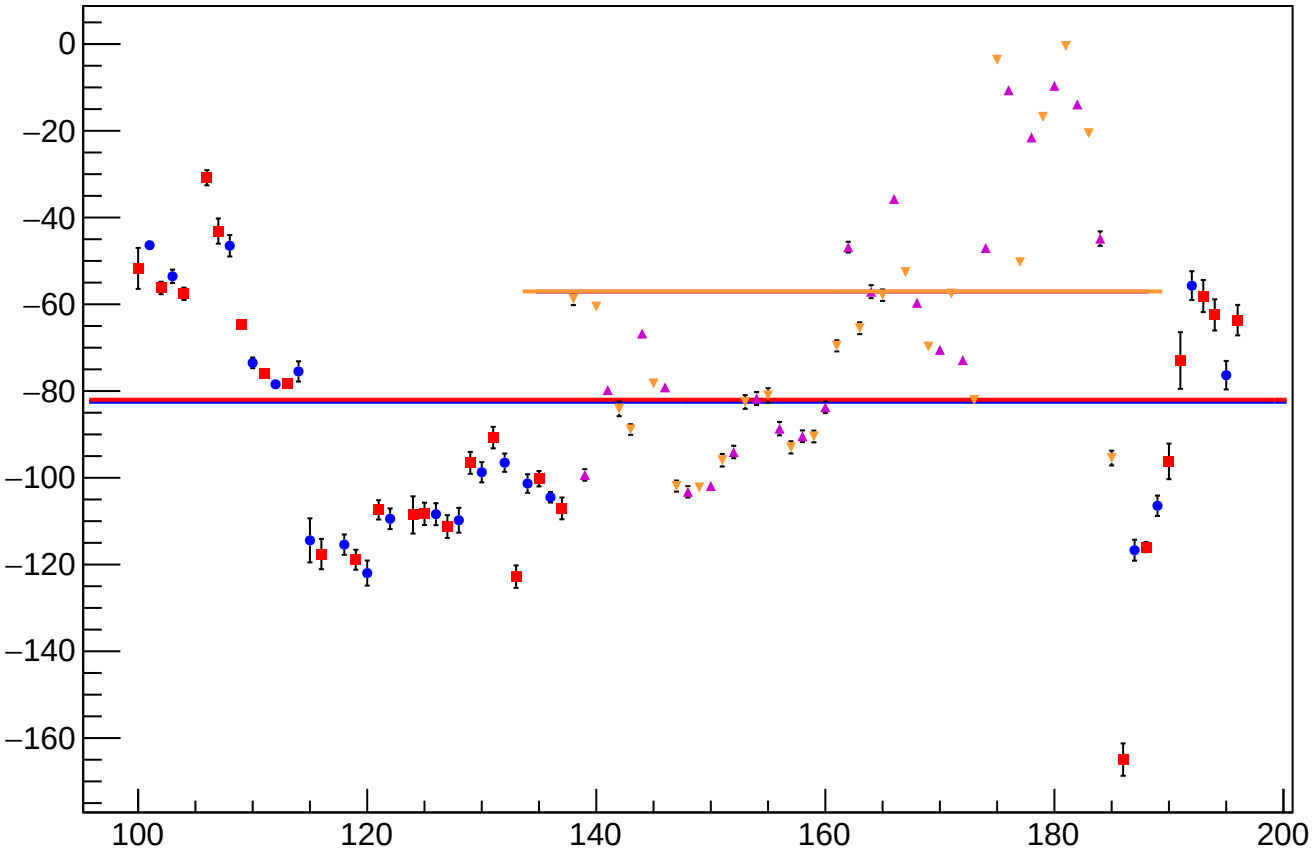
Left: -0.696+/-0.127 $\chi^2$/NDF: 14569.0/47

Right: -3.277+/-0.292 $\chi^2$/NDF: 5066.2/45

In: -1.191+/-0.168 $\chi^2$/NDF:8790.4/42

Out: -1.032+/-0.162 $\chi^2$/NDF:10910.1/50

All: -1.109+/-0.117 $\chi^2$/NDF: 19701.0/93




Right In: -82.475+/-0.417 $\chi^2$/NDF: 3253.5/19

Left Out: -57.029+/-0.230 $\chi^2$/NDF:20309.3/24

Right Out: -82.006+/-0.381 $\chi^2$/NDF: 4702.0/25

Left In: -57.091+/-0.237 $\chi^2$/NDF:17167.8/22

Left: -57.059+/-0.165 $\chi^2$/NDF: 37477.1/47

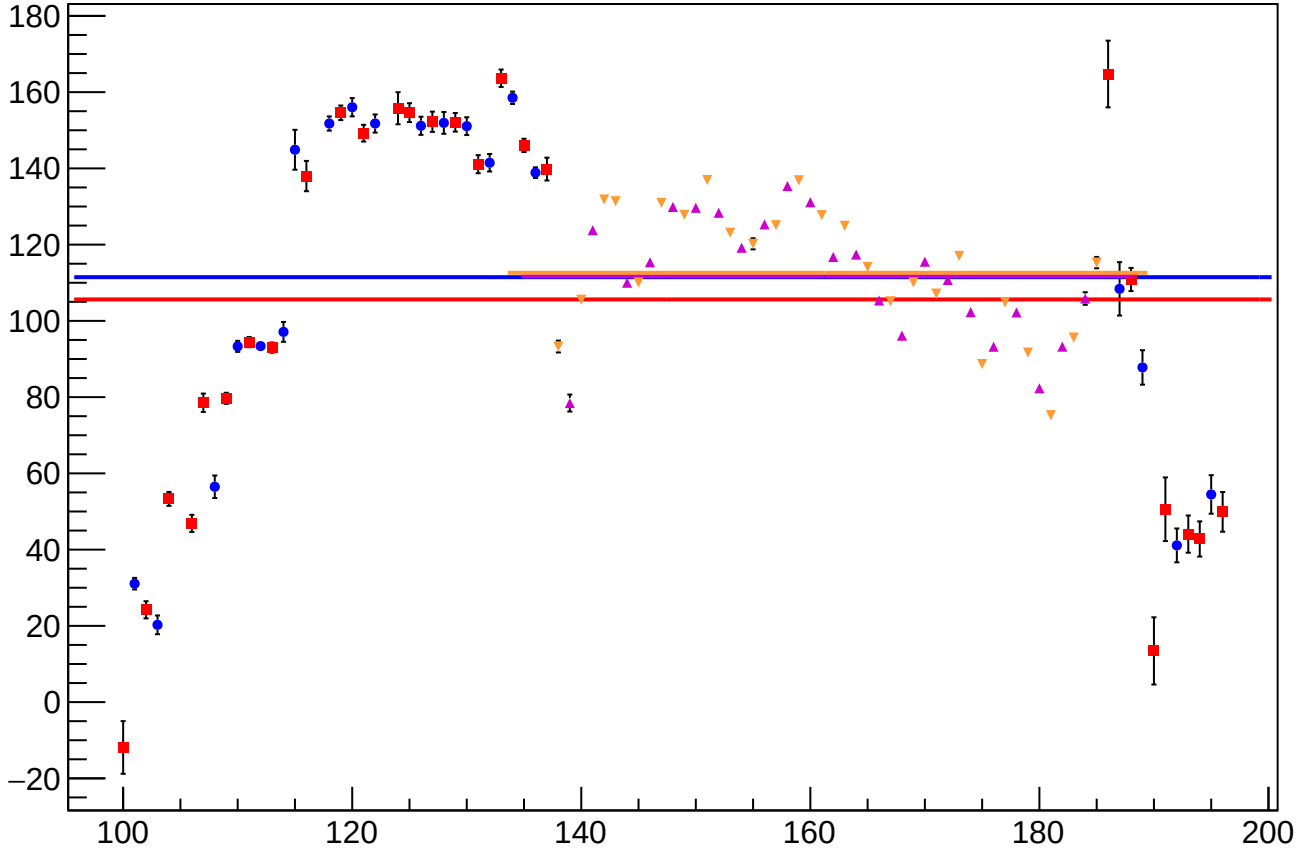
Right: -82.220+/-0.282 $\chi^2$/NDF: 7956.1/45

In: -63.263+/-0.206 $\chi^2$/NDF:23220.2/42

Out: -63.682+/-0.197 $\chi^2$/NDF:28156.0/50

All: -63.482+/-0.142 $\chi^2$/NDF: 51378.3/93

reg_asym_sam_48_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 111.464+/-0.480 $\chi^2$/NDF: 8621.8/19

Left Out: 112.625+/-0.200 $\chi^2$/NDF:6708.0/24

Right Out: 105.628+/-0.465 $\chi^2$/NDF: 8219.1/25

Left In: 111.720+/-0.206 $\chi^2$/NDF:4896.8/22

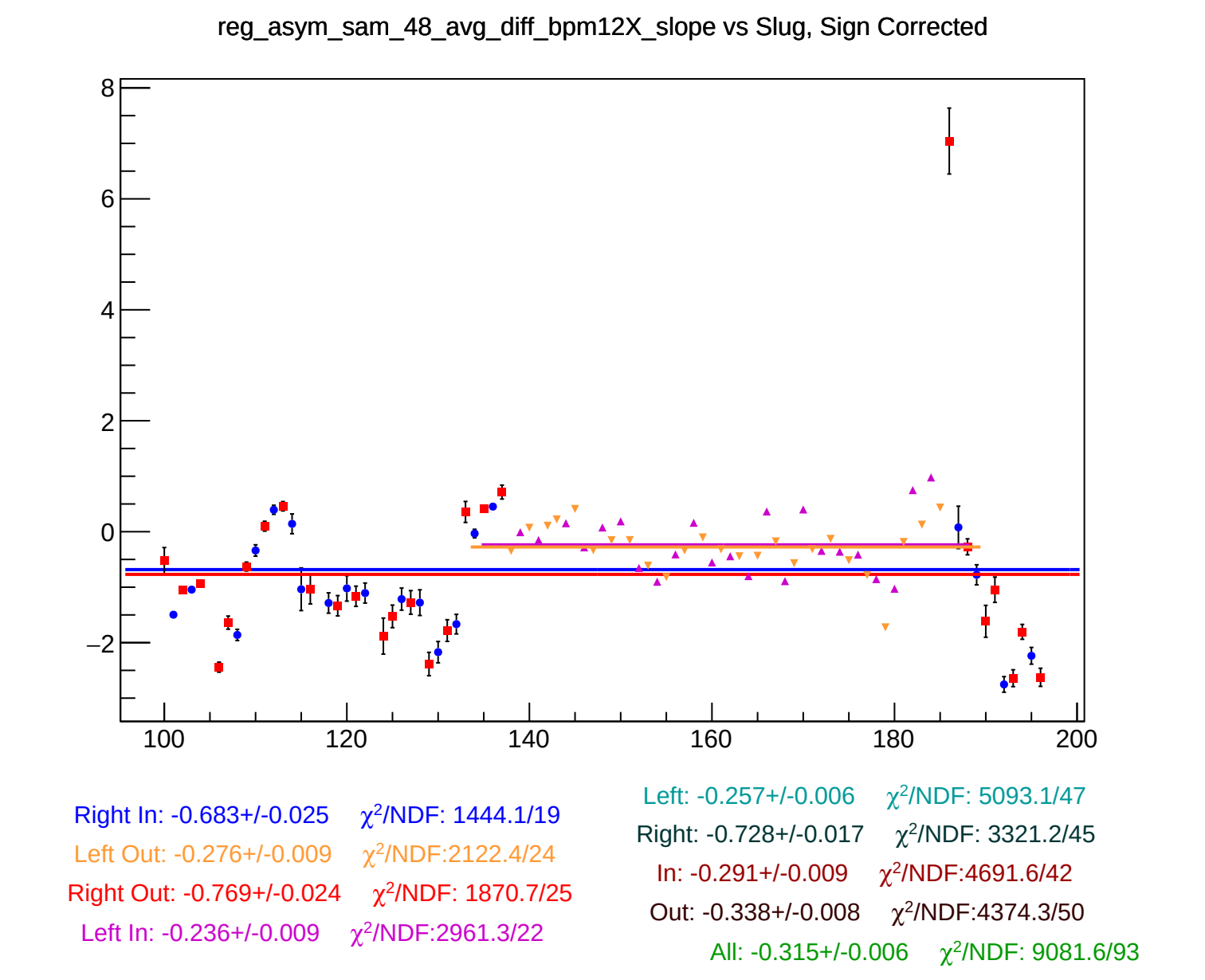
Left: 112.186+/-0.143 $\chi^2$/NDF: 11614.7/47

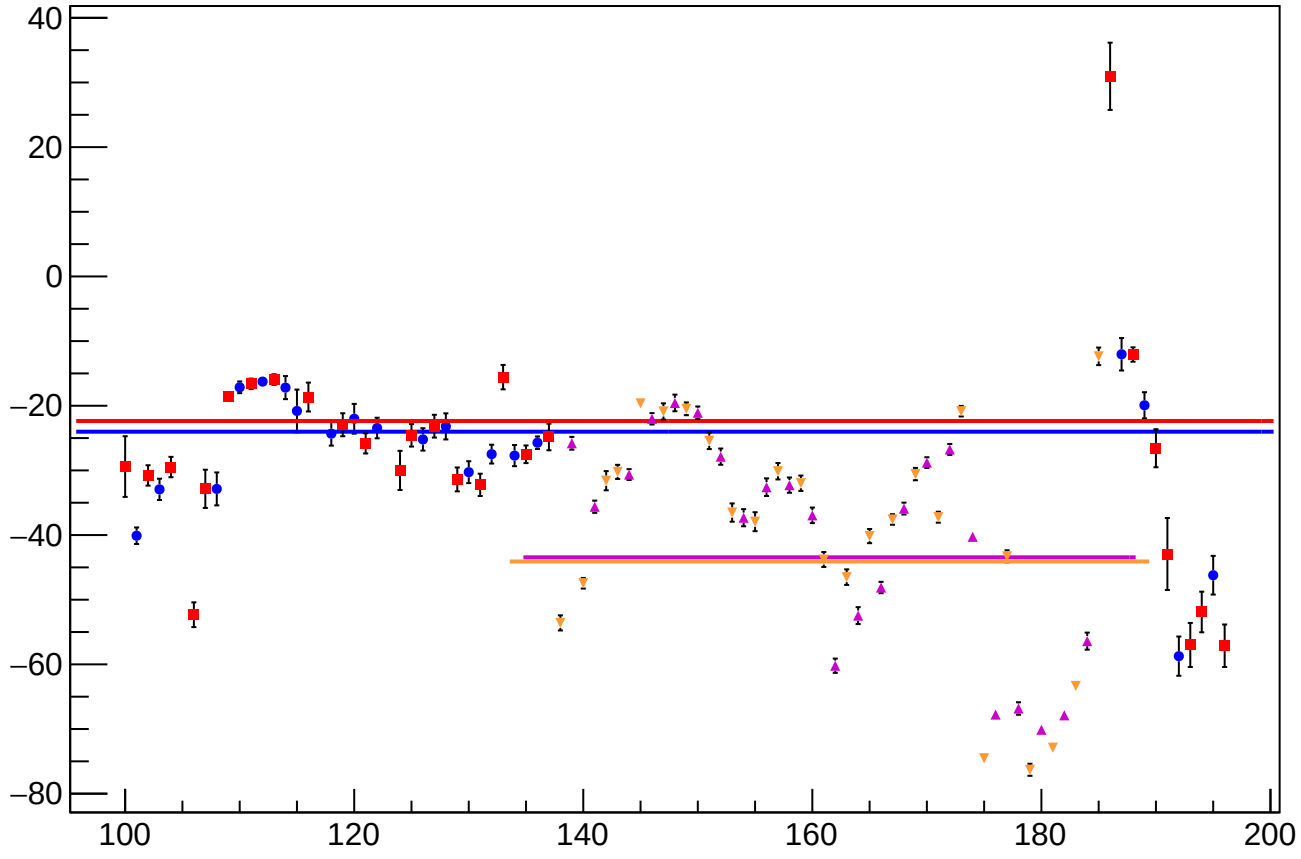
Right: 108.453+/-0.334 $\chi^2$/NDF: 16917.2/45

In: 111.680+/-0.189 $\chi^2$/NDF:13518.8/42

Out: 111.533+/-0.184 $\chi^2$/NDF:15118.2/50

All: 111.604+/-0.132 $\chi^2$/NDF: 28637.4/93


reg_asym_sam_48_avg_diff_bpm12X_slope vs Slug, Sign Corrected
8
6
4
2
0
−2
100
120
140
160
180
200
Right In: -0.683+/-0.025 χ²/NDF: 1444.1/19
Left Out: -0.276+/-0.009 χ²/NDF:2122.4/24
Right Out: -0.769+/-0.024 χ²/NDF: 1870.7/25
Left In: -0.236+/-0.009 χ²/NDF:2961.3/22
Left: -0.257+/-0.006 χ²/NDF: 5093.1/47
Right: -0.728+/-0.017 χ²/NDF: 3321.2/45
In: -0.291+/-0.009 χ²/NDF:4691.6/42
Out: -0.338+/-0.008 χ²/NDF:4374.3/50
All: -0.315+/-0.006 χ²/NDF: 9081.6/93




Right In: -24.012+/-0.336 $\chi^2$/NDF: 620.3/19

Left Out: -44.087+/-0.193 $\chi^2$/NDF:10340.4/24

Right Out: -22.359+/-0.302 $\chi^2$/NDF: 1061.6/25

Left In: -43.444+/-0.199 $\chi^2$/NDF:7820.5/22

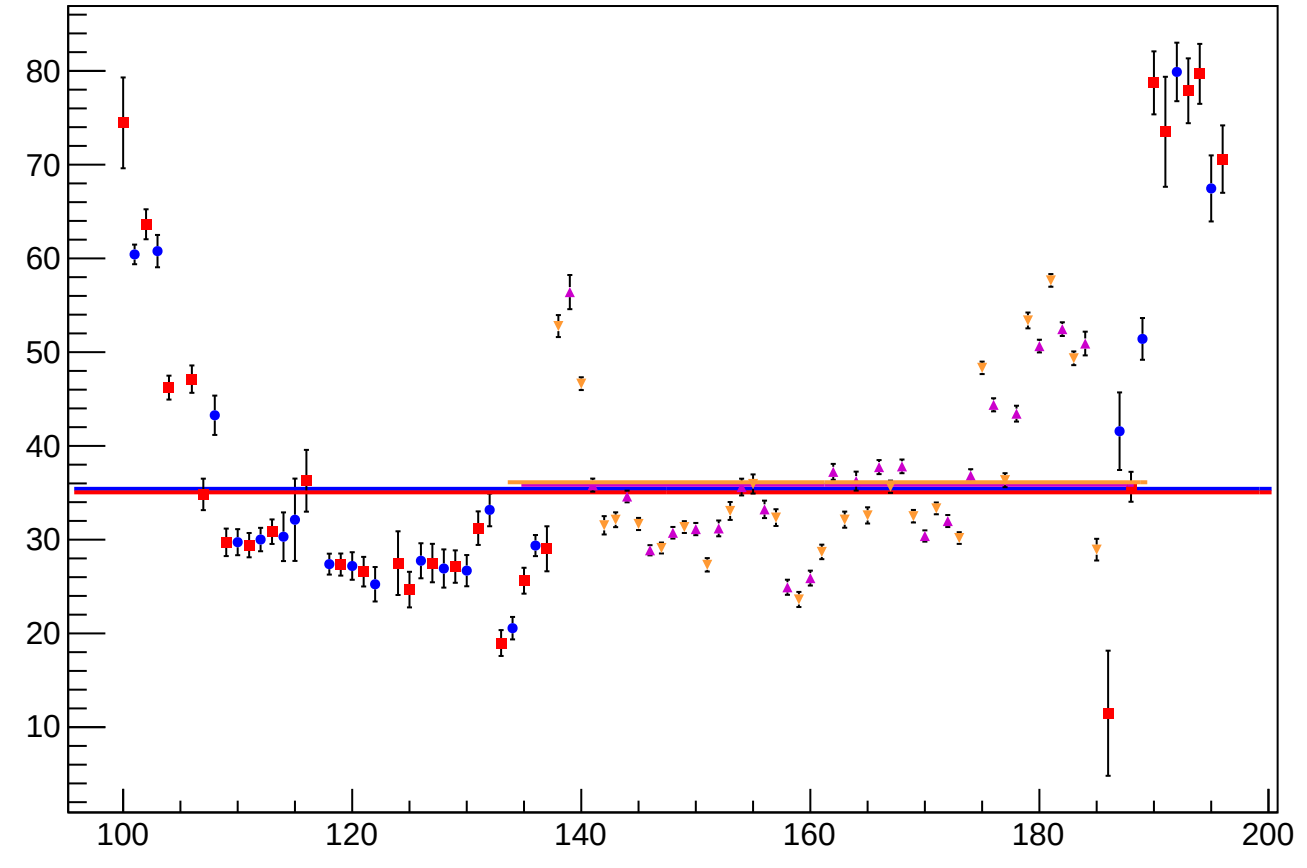
Left: -43.775+/-0.138 $\chi^2$/NDF: 18166.3/47

Right: -23.100+/-0.225 $\chi^2$/NDF: 1695.2/45

In: -38.405+/-0.171 $\chi^2$/NDF:10920.4/42

Out: -37.798+/-0.163 $\chi^2$/NDF:15069.3/50

All: -38.087+/-0.118 $\chi^2$/NDF: 25996.3/93




Right In: 35.421+/-0.364 $\chi^2$/NDF: 1540.2/19

Left Out: 36.123+/-0.150 $\chi^2$/NDF:3558.5/24

Right Out: 35.047+/-0.354 $\chi^2$/NDF: 1578.4/25

Left In: 35.852+/-0.155 $\chi^2$/NDF:2293.5/22

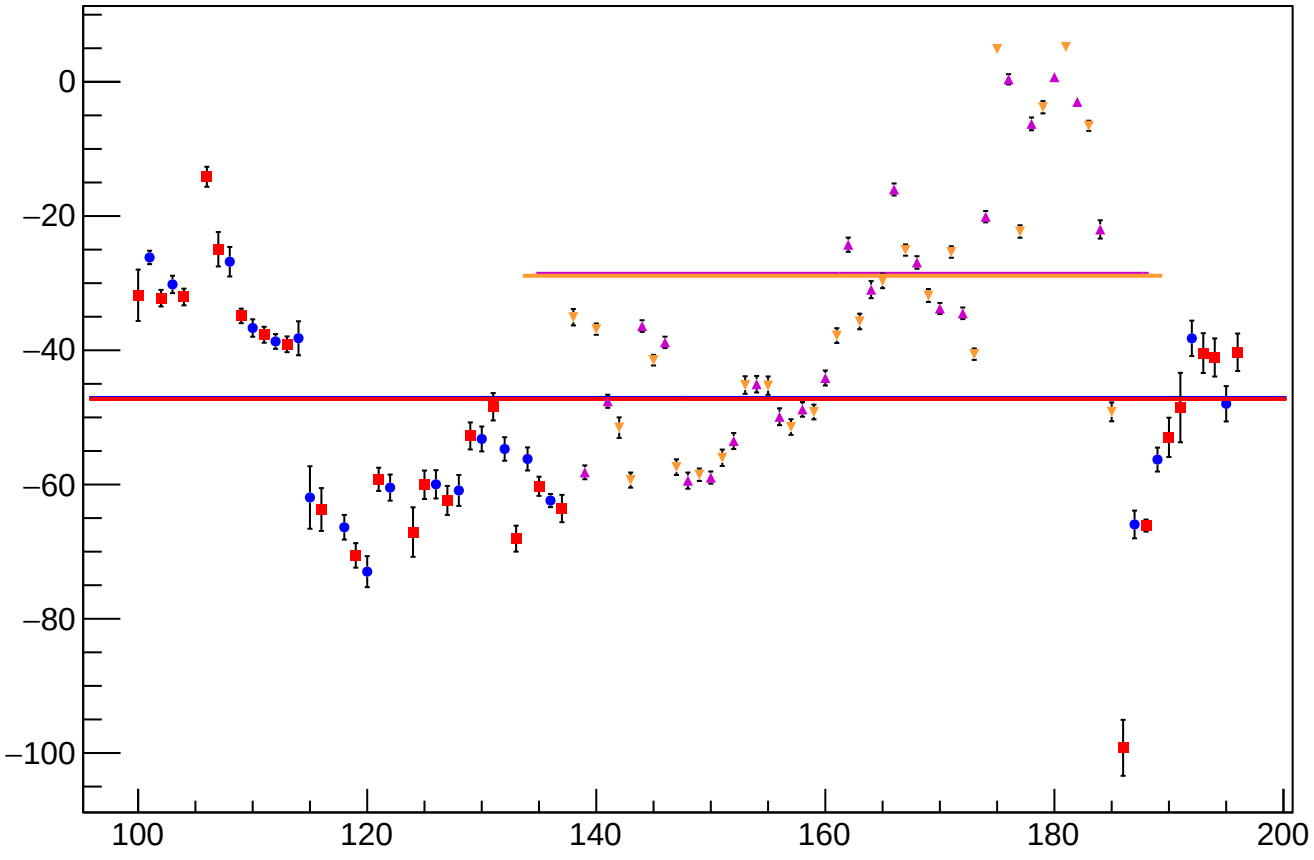
Left: 35.992+/-0.108 $\chi^2$/NDF: 5853.6/47

Right: 35.229+/-0.254 $\chi^2$/NDF: 3119.1/45

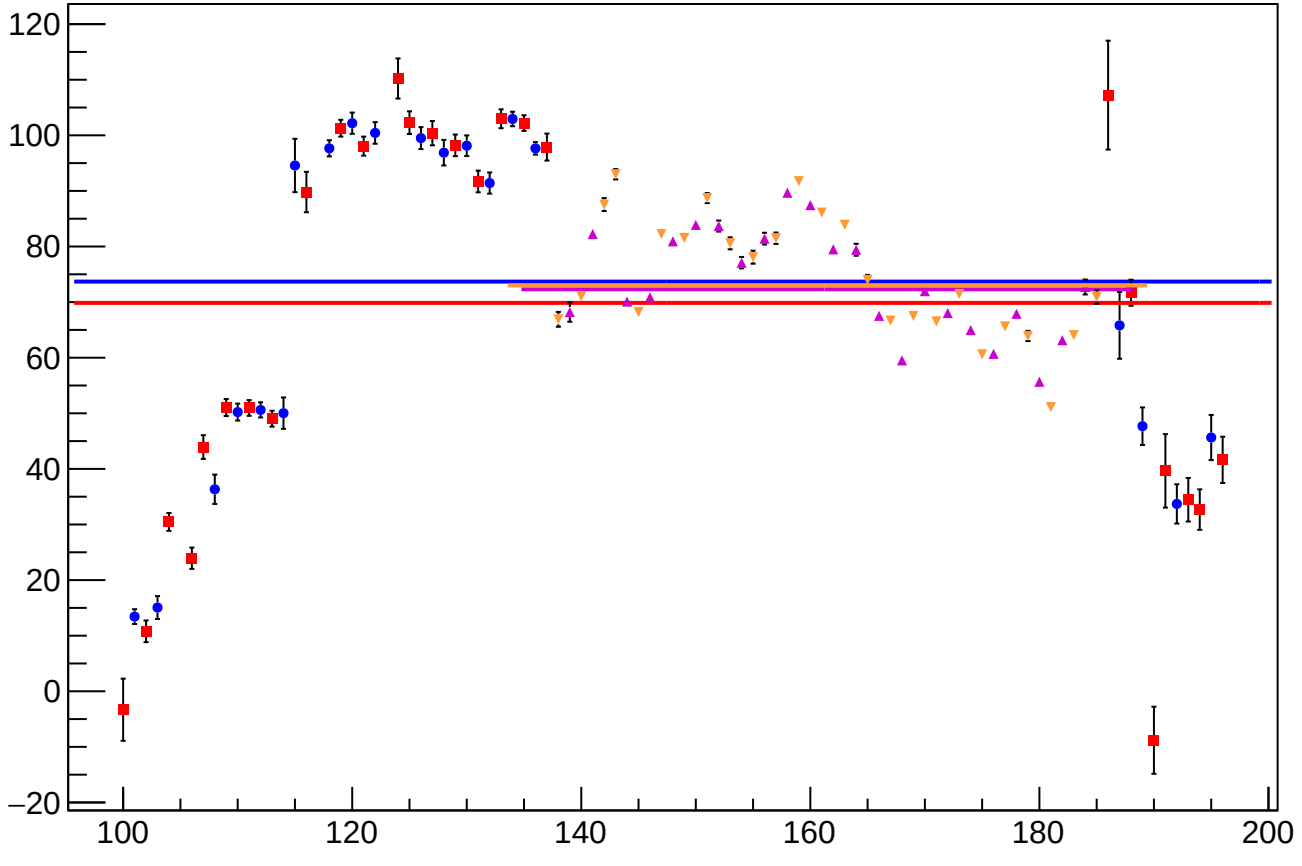
In: 35.786+/-0.143 $\chi^2$/NDF:3834.9/42

Out: 35.959+/-0.138 $\chi^2$/NDF:5144.7/50

All: 35.875+/-0.099 $\chi^2$/NDF: 8980.4/93


reg_asym_sam_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
0
−20
−40
−60
−80
−100
100
120
140
160
180
200
Right In: -47.097+/-0.367 χ²/NDF: 1616.7/19
Left Out: -28.891+/-0.193 χ²/NDF:11798.4/24
Right Out: -47.249+/-0.337 χ²/NDF: 2365.3/25
Left In: -28.605+/-0.198 χ²/NDF:10014.7/22
Left: -28.751+/-0.138 χ²/NDF: 21814.2/47
Right: -47.180+/-0.248 χ²/NDF: 3982.1/45
In: -32.763+/-0.174 χ²/NDF:13597.5/42
Out: -33.415+/-0.167 χ²/NDF:16399.0/50
All: -33.102+/-0.121 χ²/NDF: 30003.8/93

reg_asym_sam_48_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 73.690+/-0.418 $\chi^2$/NDF: 6075.3/19

Left Out: 73.002+/-0.168 $\chi^2$/NDF:4052.4/24

Right Out: 69.863+/-0.410 $\chi^2$/NDF: 6080.2/25

Left In: 72.302+/-0.173 $\chi^2$/NDF:2912.6/22

Left: 72.662+/-0.121 $\chi^2$/NDF: 6973.3/47

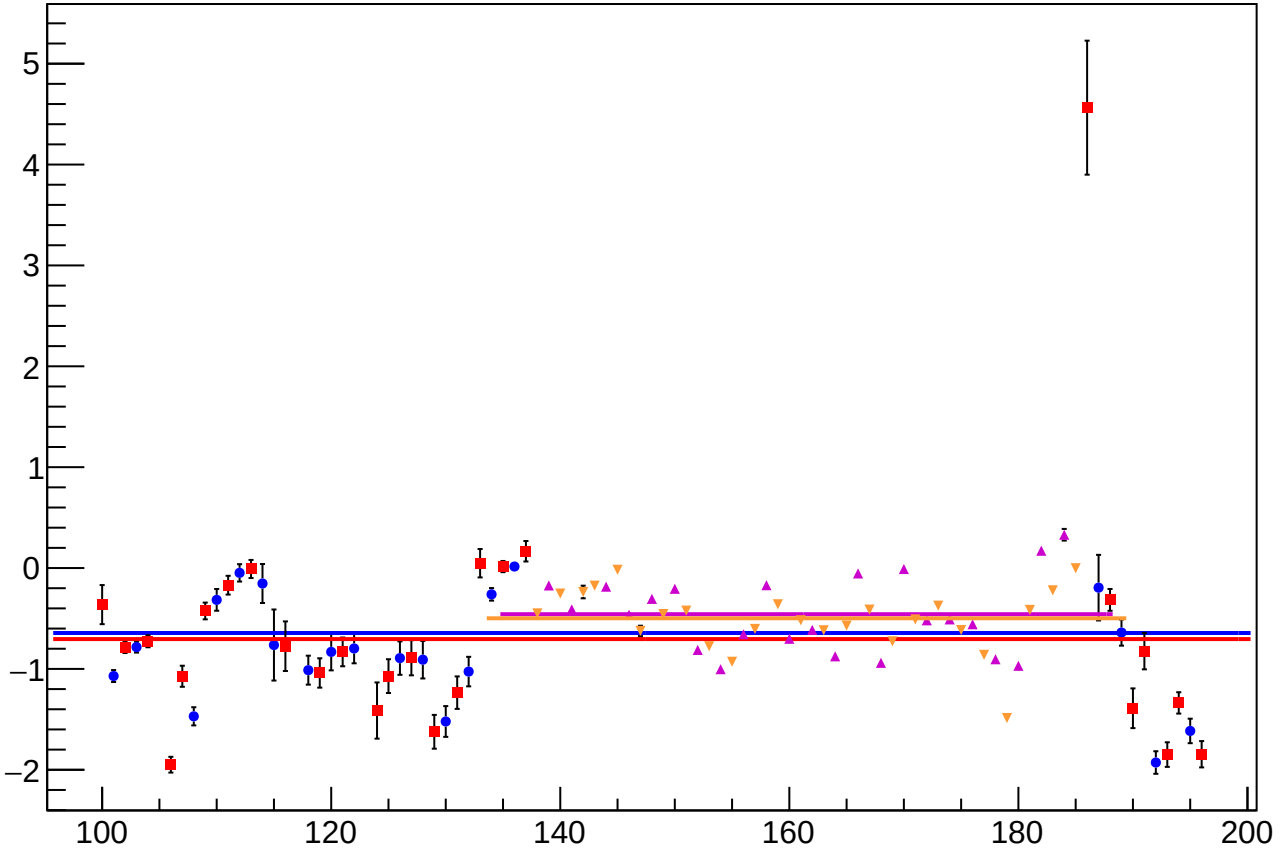
Right: 71.738+/-0.292 $\chi^2$/NDF: 12198.3/45

In: 72.506+/-0.160 $\chi^2$/NDF:8997.2/42

Out: 72.548+/-0.156 $\chi^2$/NDF:10182.9/50

All: 72.528+/-0.112 $\chi^2$/NDF: 19180.2/93

reg_asym_sam_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.644+/-0.021 $\chi^2$/NDF: 704.2/19

Left Out: -0.498+/-0.008 $\chi^2$/NDF:1482.9/24

Right Out: -0.704+/-0.020 $\chi^2$/NDF: 994.4/25

Left In: -0.458+/-0.008 $\chi^2$/NDF:2103.1/22

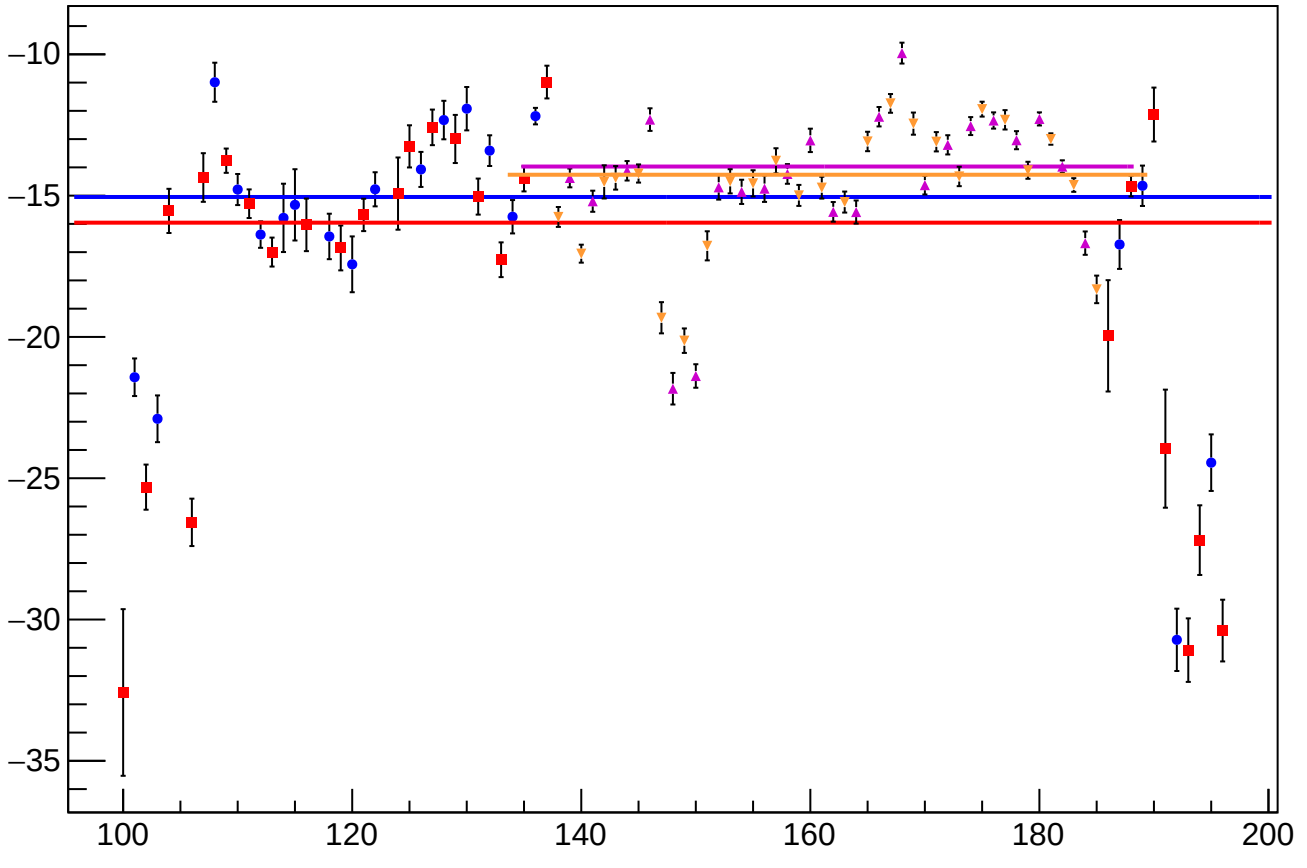
Left: -0.478+/-0.005 $\chi^2$/NDF: 3600.2/47

Right: -0.675+/-0.015 $\chi^2$/NDF: 1702.8/45

In: -0.479+/-0.007 $\chi^2$/NDF:2876.1/42

Out: -0.523+/-0.007 $\chi^2$/NDF:2566.8/50

All: -0.501+/-0.005 $\chi^2$/NDF: 5461.3/93




Right In: -15.048+/-0.142 $\chi^2$/NDF: 670.1/19

Left Out: -14.261+/-0.070 $\chi^2$/NDF:724.0/24

Right Out: -15.957+/-0.134 $\chi^2$/NDF: 999.4/25

Left In: -13.970+/-0.072 $\chi^2$/NDF:907.7/22

Left: -14.120+/-0.050 $\chi^2$/NDF: 1640.2/47

Right: -15.527+/-0.097 $\chi^2$/NDF: 1691.3/45

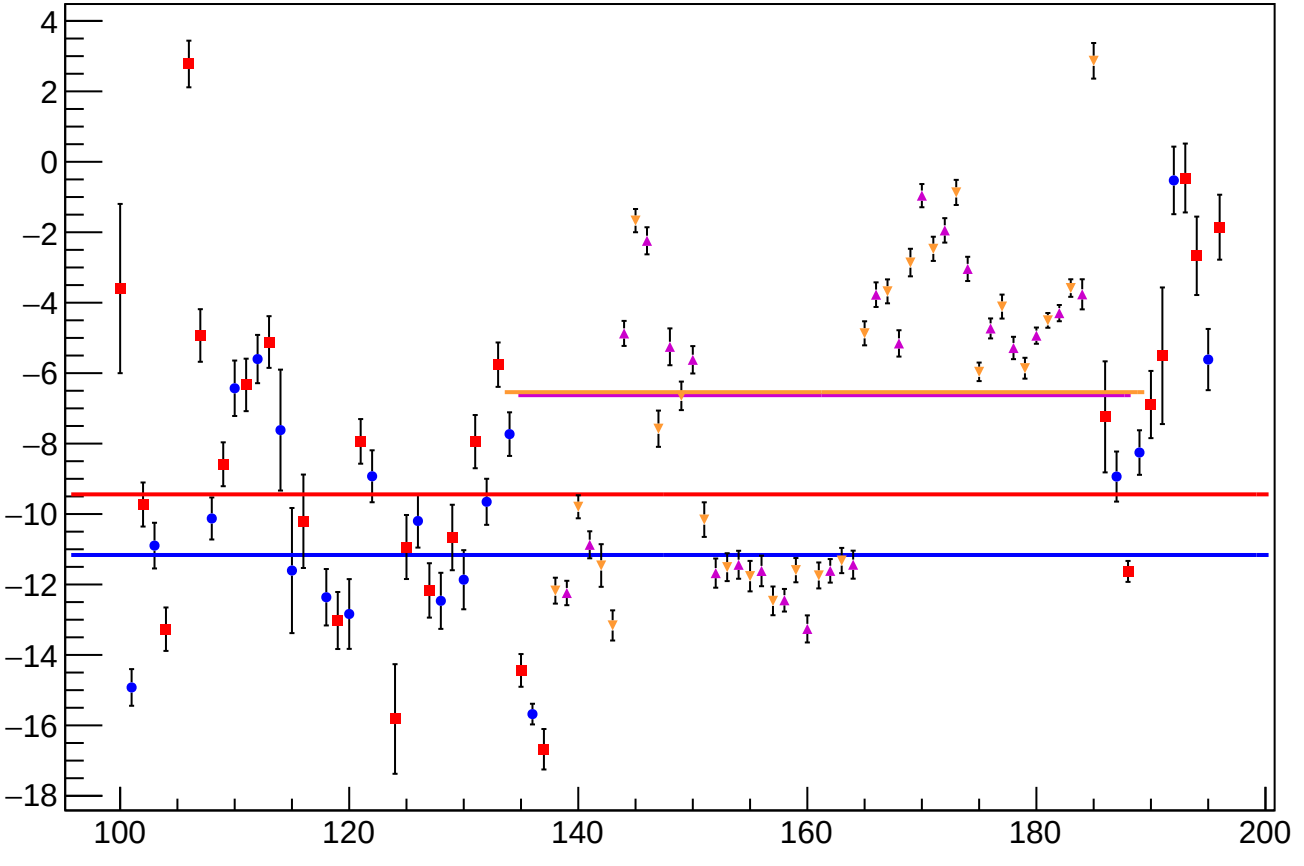
In: -14.191+/-0.064 $\chi^2$/NDF:1623.9/42

Out: -14.622+/-0.062 $\chi^2$/NDF:1849.6/50

All: -14.414+/-0.045 $\chi^2$/NDF: 3496.9/93

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs Slug, Sign Corrected
−25
−30
−35
−40
−45
−50
−55
100
120
140
160
180
200
Right In: -34.760+/-0.147 χ²/NDF: 1858.4/19
Left Out: -31.301+/-0.055 χ²/NDF:553.1/24
Right Out: -34.793+/-0.143 χ²/NDF: 2195.4/25
Left In: -31.436+/-0.057 χ²/NDF:1214.8/22
Left: -31.366+/-0.040 χ²/NDF: 1770.8/47
Right: -34.777+/-0.103 χ²/NDF: 4053.8/45
In: -31.873+/-0.053 χ²/NDF:3515.8/42
Out: -31.755+/-0.052 χ²/NDF:3268.3/50
All: -31.812+/-0.037 χ²/NDF: 6786.6/93

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -11.162+/-0.148 $\chi^2$/NDF: 648.6/19

Left Out: -6.540+/-0.070 $\chi^2$/NDF:3242.5/24

Right Out: -9.441+/-0.138 $\chi^2$/NDF: 1104.0/25

Left In: -6.625+/-0.071 $\chi^2$/NDF:2908.0/22

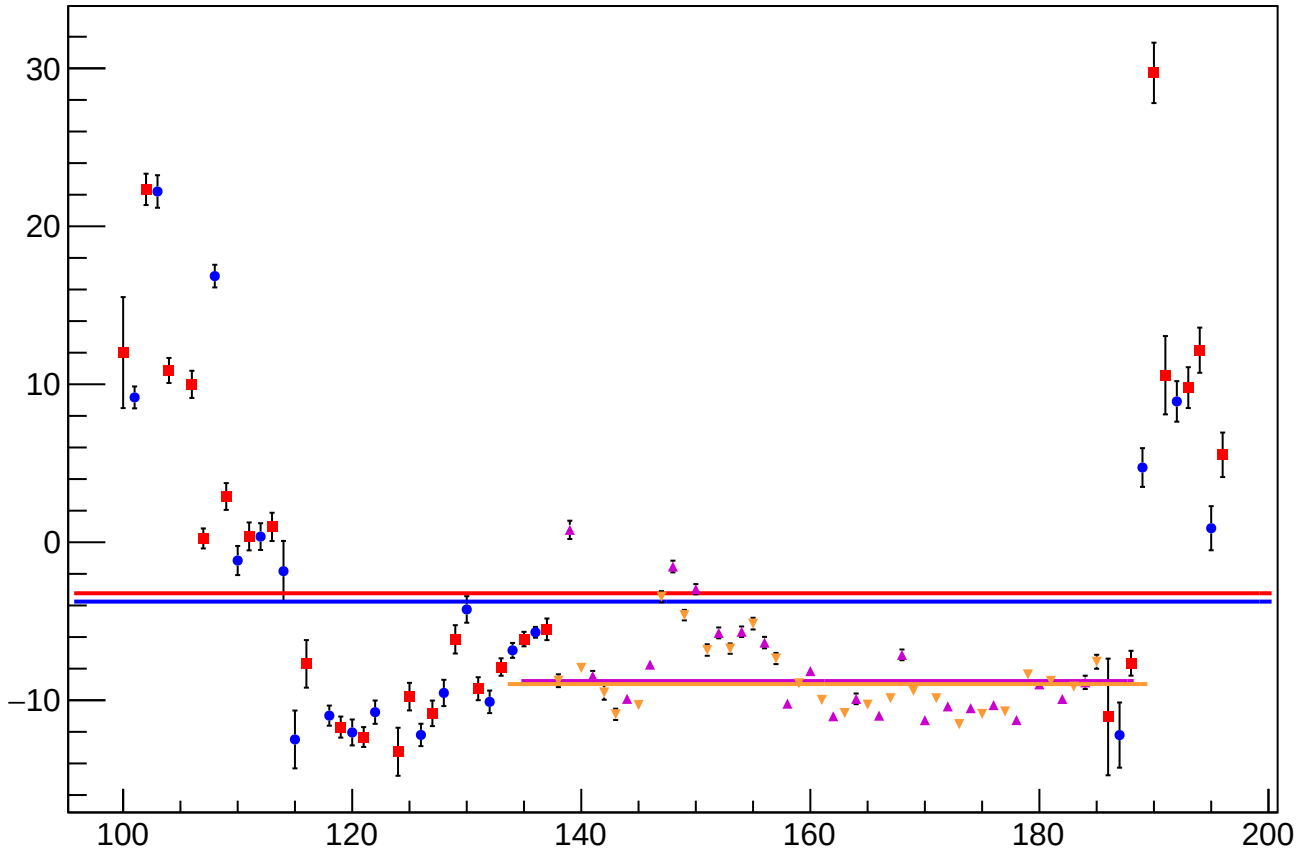
Left: -6.581+/-0.050 $\chi^2$/NDF: 6151.3/47

Right: -10.242+/-0.101 $\chi^2$/NDF: 1825.3/45

In: -7.486+/-0.064 $\chi^2$/NDF:4322.0/42

Out: -7.130+/-0.062 $\chi^2$/NDF:4700.5/50

All: -7.301+/-0.045 $\chi^2$/NDF: 9038.4/93




Right In: -3.756+/-0.167 $\chi^2$/NDF: 2704.0/19

Left Out: -8.977+/-0.061 $\chi^2$/NDF:972.0/24

Right Out: -3.227+/-0.167 $\chi^2$/NDF: 2746.5/25

Left In: -8.785+/-0.063 $\chi^2$/NDF:1685.0/22

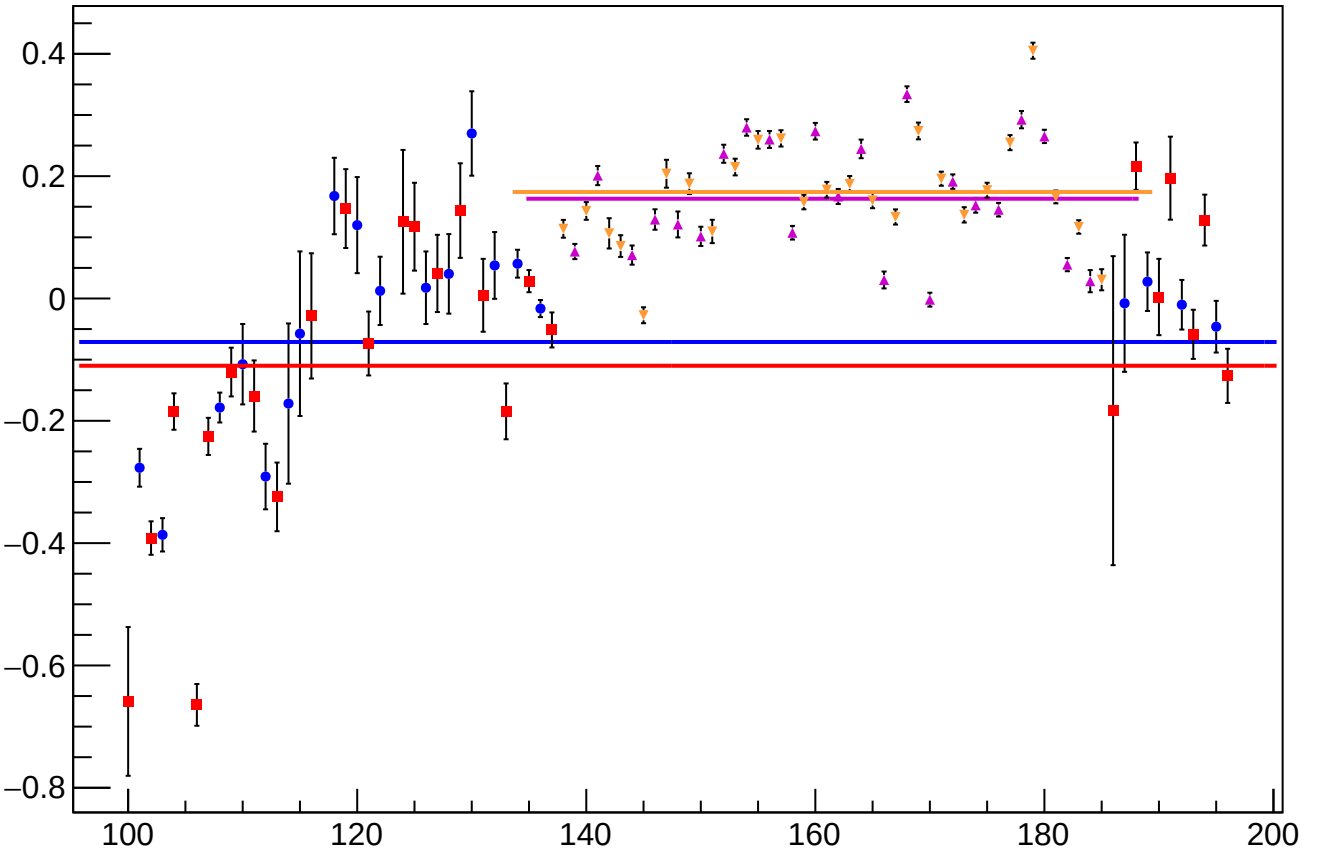
Left: -8.884+/-0.044 $\chi^2$/NDF: 2661.8/47

Right: -3.491+/-0.118 $\chi^2$/NDF: 5455.5/45

In: -8.152+/-0.059 $\chi^2$/NDF:5181.5/42

Out: -8.289+/-0.058 $\chi^2$/NDF:4766.1/50

All: -8.222+/-0.041 $\chi^2$/NDF: 9950.3/93




Right In: -0.071+/-0.008 $\chi^2$/NDF: 326.6/19

Left Out: 0.174+/-0.003 $\chi^2$/NDF:922.9/24

Right Out: -0.110+/-0.008 $\chi^2$/NDF: 672.7/25

Left In: 0.163+/-0.003 $\chi^2$/NDF:1195.1/22

Left: 0.169+/-0.002 $\chi^2$/NDF: 2126.1/47

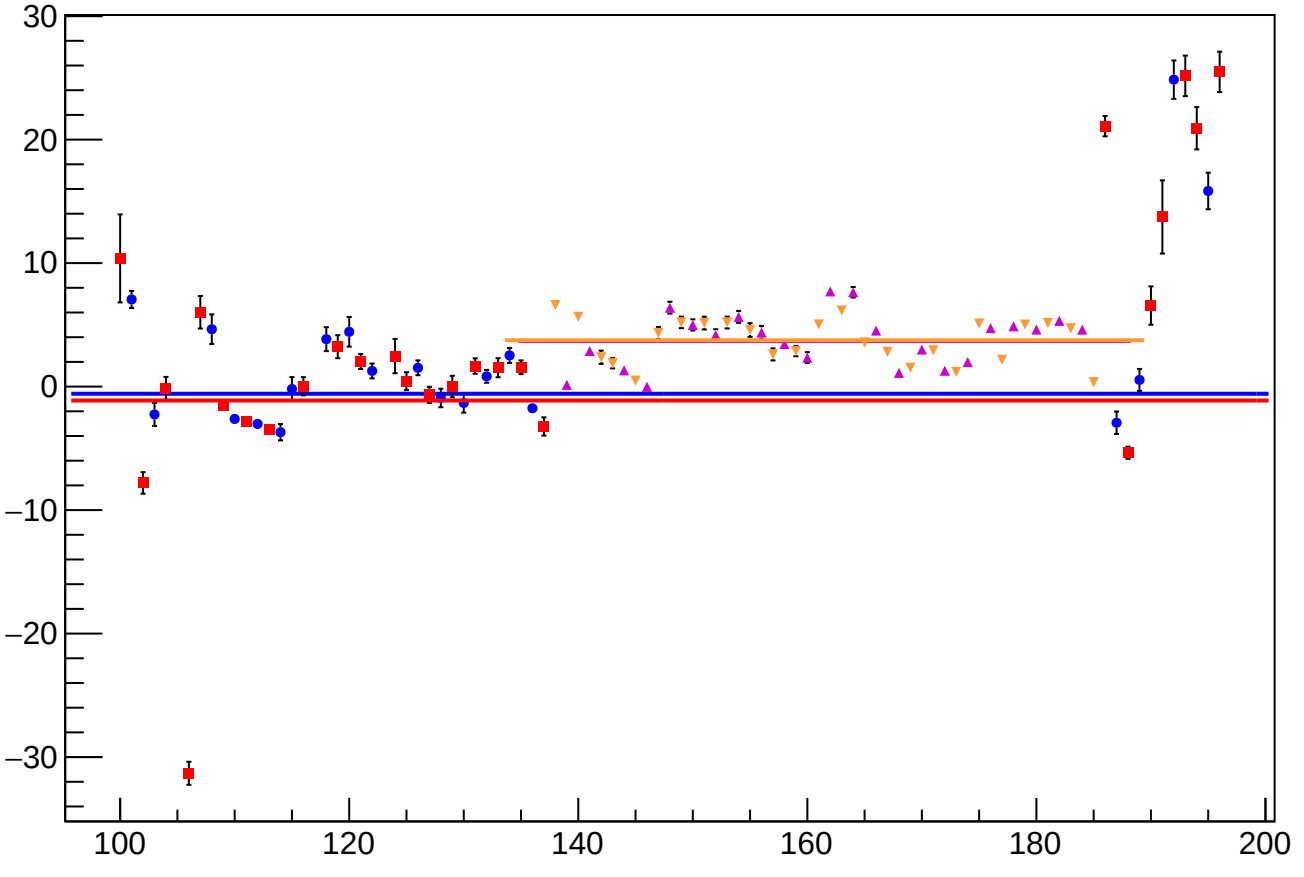
Right: -0.090+/-0.006 $\chi^2$/NDF: 1010.8/45

In: 0.138+/-0.003 $\chi^2$/NDF:2272.7/42

Out: 0.146+/-0.003 $\chi^2$/NDF:2686.2/50

All: 0.142+/-0.002 $\chi^2$/NDF: 4962.7/93

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -0.580+/-0.133 $\chi^2$/NDF: 784.1/19

Left Out: 3.750+/-0.062 $\chi^2$/NDF:809.8/24

Right Out: -1.126+/-0.121 $\chi^2$/NDF: 2903.5/25

Left In: 3.688+/-0.064 $\chi^2$/NDF:953.3/22

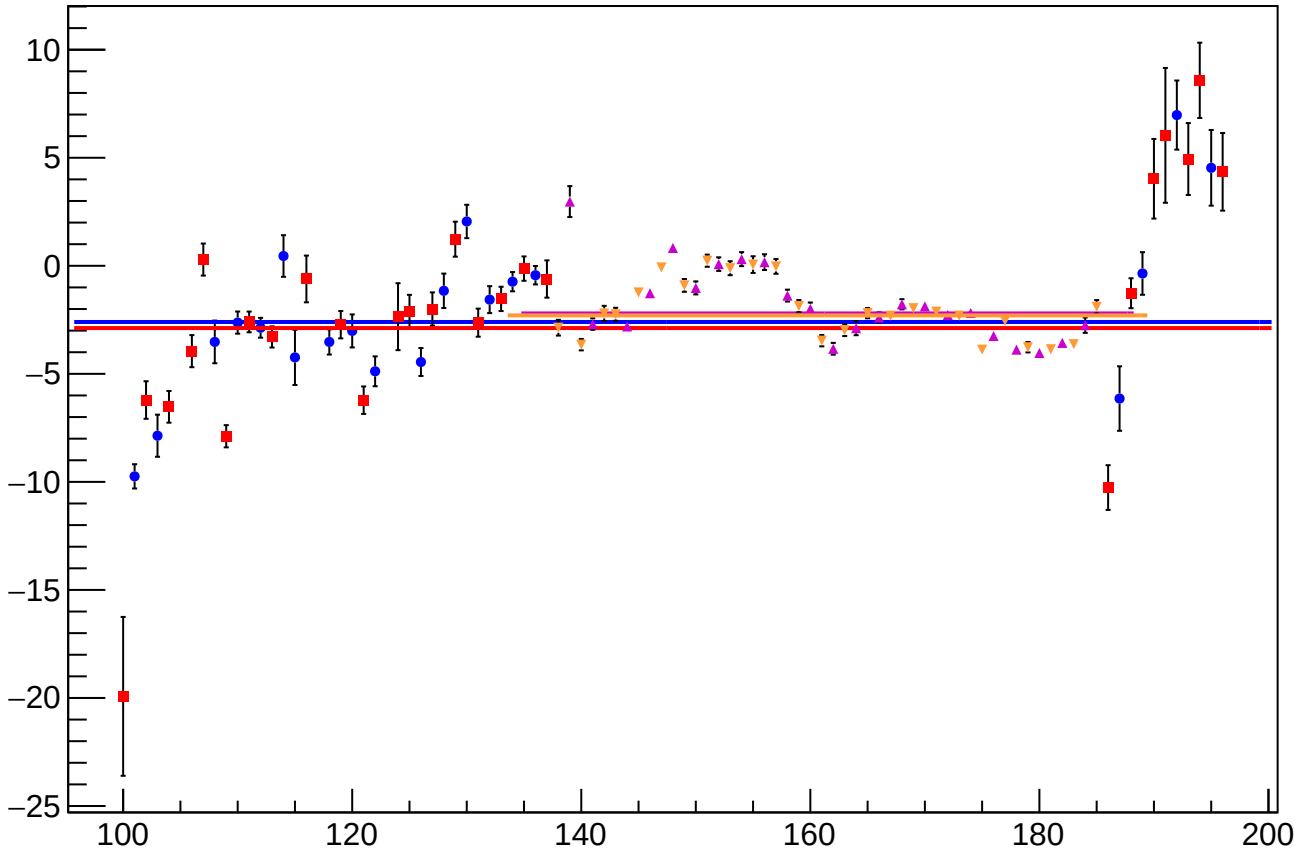
Left: 3.720+/-0.044 $\chi^2$/NDF: 1763.6/47

Right: -0.877+/-0.089 $\chi^2$/NDF: 3696.9/45

In: 2.883+/-0.058 $\chi^2$/NDF:2578.6/42

Out: 2.741+/-0.055 $\chi^2$/NDF:4994.0/50

All: 2.809+/-0.040 $\chi^2$/NDF: 7575.8/93




Right In: -2.600+/-0.152 $\chi^2$/NDF: 374.5/19

Left Out: -2.294+/-0.050 $\chi^2$/NDF:631.5/24

Right Out: -2.881+/-0.150 $\chi^2$/NDF: 434.2/25

Left In: -2.204+/-0.051 $\chi^2$/NDF:724.7/22

Left: -2.250+/-0.035 $\chi^2$/NDF: 1357.8/47

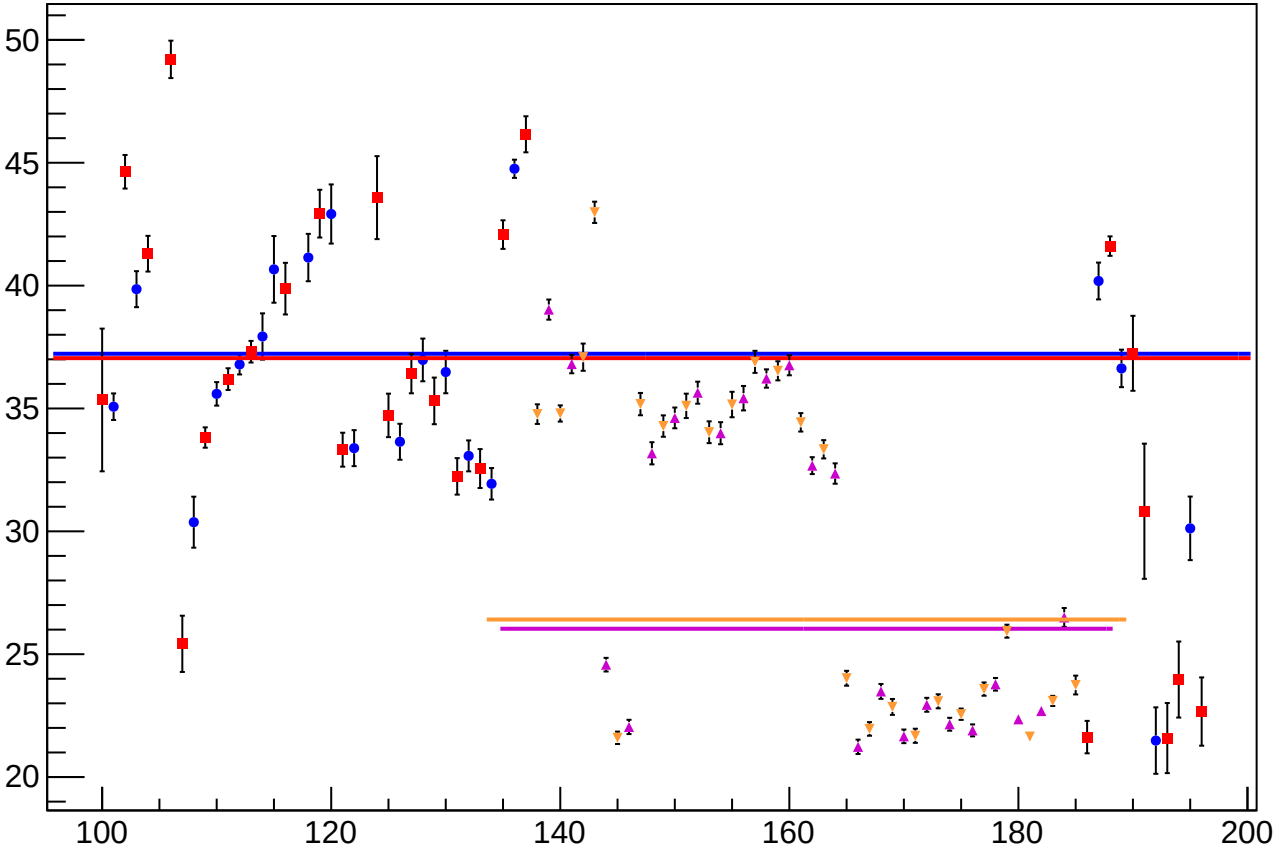
Right: -2.743+/-0.107 $\chi^2$/NDF: 810.4/45

In: -2.244+/-0.048 $\chi^2$/NDF:1105.2/42

Out: -2.353+/-0.047 $\chi^2$/NDF:1079.6/50

All: -2.299+/-0.034 $\chi^2$/NDF: 2187.4/93

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 37.227+/-0.152 $\chi^2$/NDF: 890.8/19

Left Out: 26.411+/-0.062 $\chi^2$/NDF:9222.2/24

Right Out: 37.048+/-0.141 $\chi^2$/NDF: 1963.1/25

Left In: 26.036+/-0.064 $\chi^2$/NDF:7842.9/22

Left: 26.228+/-0.045 $\chi^2$/NDF: 17082.8/47

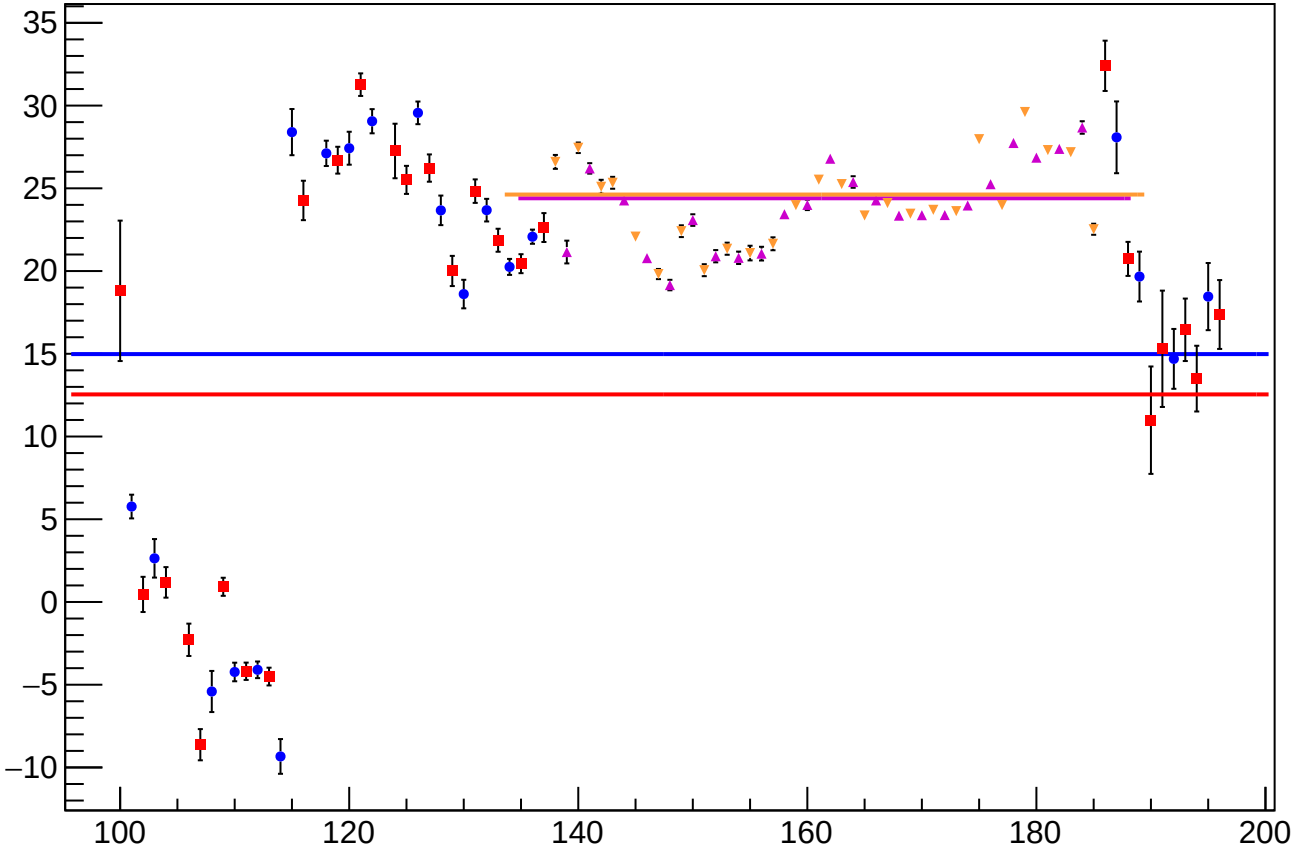
Right: 37.131+/-0.103 $\chi^2$/NDF: 2854.6/45

In: 27.718+/-0.059 $\chi^2$/NDF:13347.0/42

Out: 28.139+/-0.057 $\chi^2$/NDF:15924.6/50

All: 27.935+/-0.041 $\chi^2$/NDF: 29298.0/93

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 14.981+/-0.171 $\chi^2$/NDF: 5736.4/19

Left Out: 24.624+/-0.055 $\chi^2$/NDF:1950.7/24

Right Out: 12.545+/-0.171 $\chi^2$/NDF: 6361.4/25

Left In: 24.397+/-0.056 $\chi^2$/NDF:1715.6/22

Left: 24.513+/-0.039 $\chi^2$/NDF: 3674.6/47

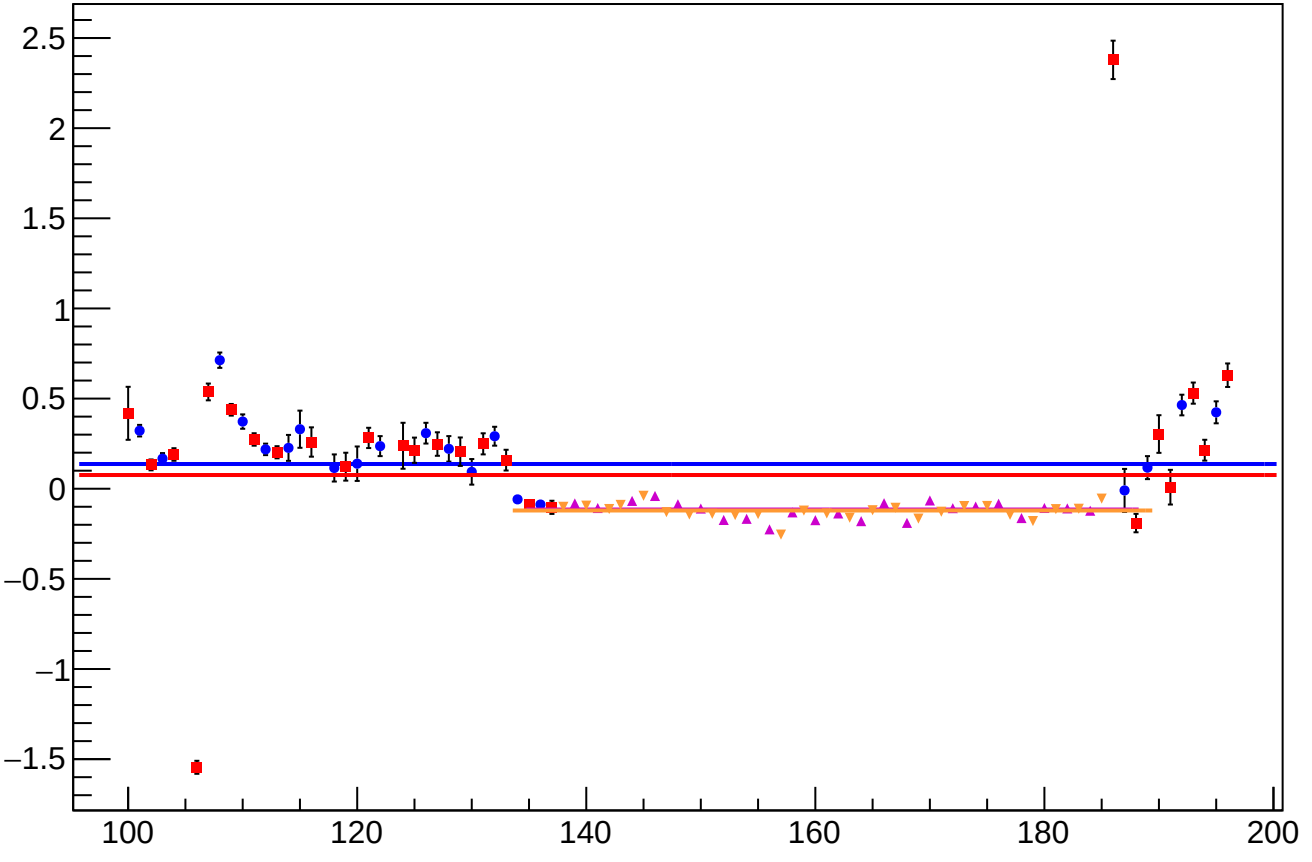
Right: 13.763+/-0.121 $\chi^2$/NDF: 12199.6/45

In: 23.470+/-0.054 $\chi^2$/NDF:10191.7/42

Out: 23.482+/-0.052 $\chi^2$/NDF:12844.0/50

All: 23.476+/-0.038 $\chi^2$/NDF: 23035.7/93

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.137+/-0.009 $\chi^2$/NDF: 578.7/19

Left Out: -0.121+/-0.002 $\chi^2$/NDF:262.9/24

Right Out: 0.076+/-0.009 $\chi^2$/NDF: 3068.8/25

Left In: -0.115+/-0.003 $\chi^2$/NDF:290.7/22

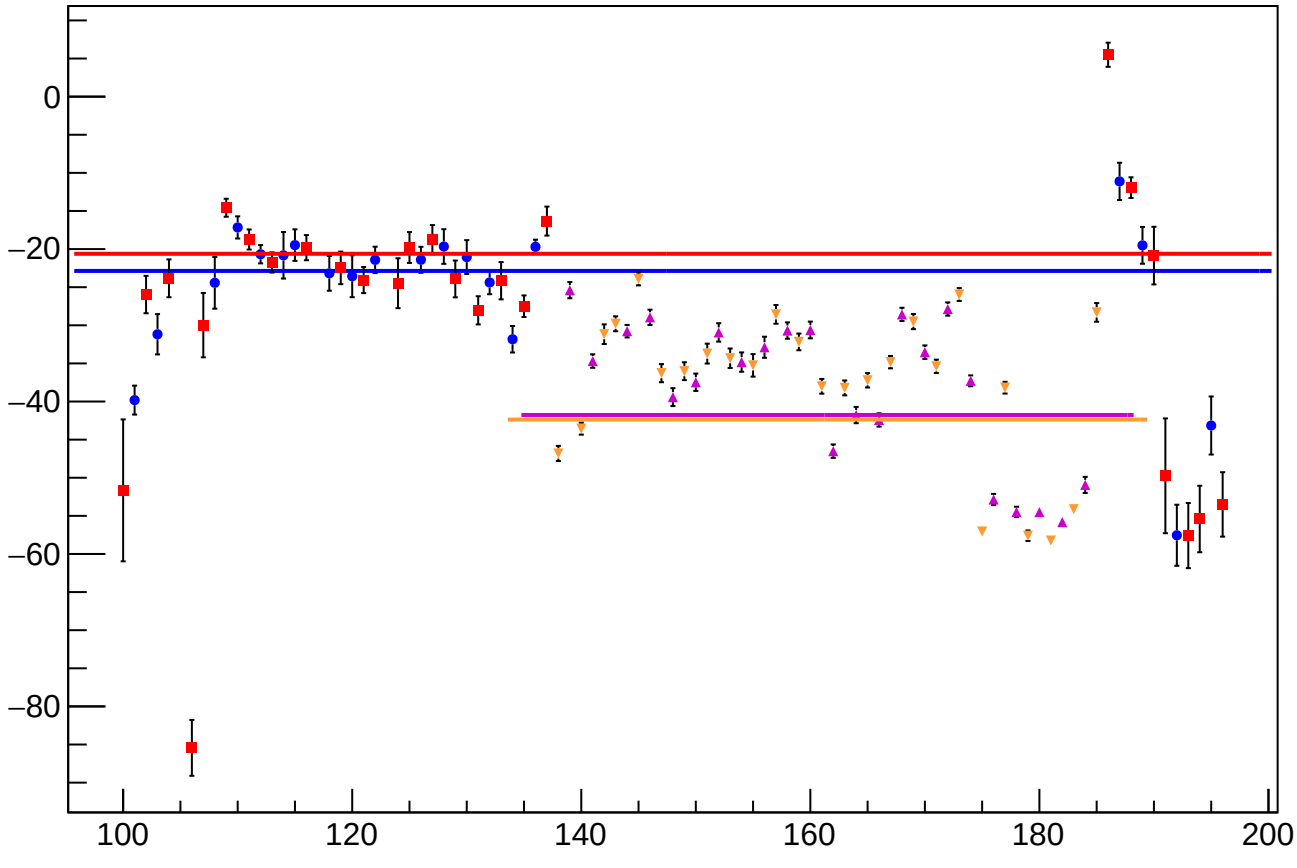
Left: -0.118+/-0.002 $\chi^2$/NDF: 556.0/47

Right: 0.107+/-0.006 $\chi^2$/NDF: 3670.0/45

In: -0.097+/-0.002 $\chi^2$/NDF:1590.2/42

Out: -0.108+/-0.002 $\chi^2$/NDF:3763.8/50

All: -0.103+/-0.002 $\chi^2$/NDF: 5363.1/93




Right In: -22.866+/-0.416 $\chi^2$/NDF: 283.0/19

Left Out: -42.366+/-0.175 $\chi^2$/NDF:4477.3/24

Right Out: -20.617+/-0.393 $\chi^2$/NDF: 946.4/25

Left In: -41.764+/-0.182 $\chi^2$/NDF:3459.2/22

Left: -42.076+/-0.126 $\chi^2$/NDF: 7942.1/47

Right: -21.677+/-0.286 $\chi^2$/NDF: 1244.8/45

In: -38.741+/-0.167 $\chi^2$/NDF:5472.2/42

Out: -38.762+/-0.160 $\chi^2$/NDF:7977.0/50

All: -38.752+/-0.115 $\chi^2$/NDF: 13449.2/93

Right In: -11.246+/-0.439 $\chi^2$/NDF: 631.4/19

Left Out: 1.203+/-0.138 $\chi^2$/NDF:1463.6/24

Right Out: -12.416+/-0.444 $\chi^2$/NDF: 705.9/25

Left In: 0.889+/-0.143 $\chi^2$/NDF:1763.7/22

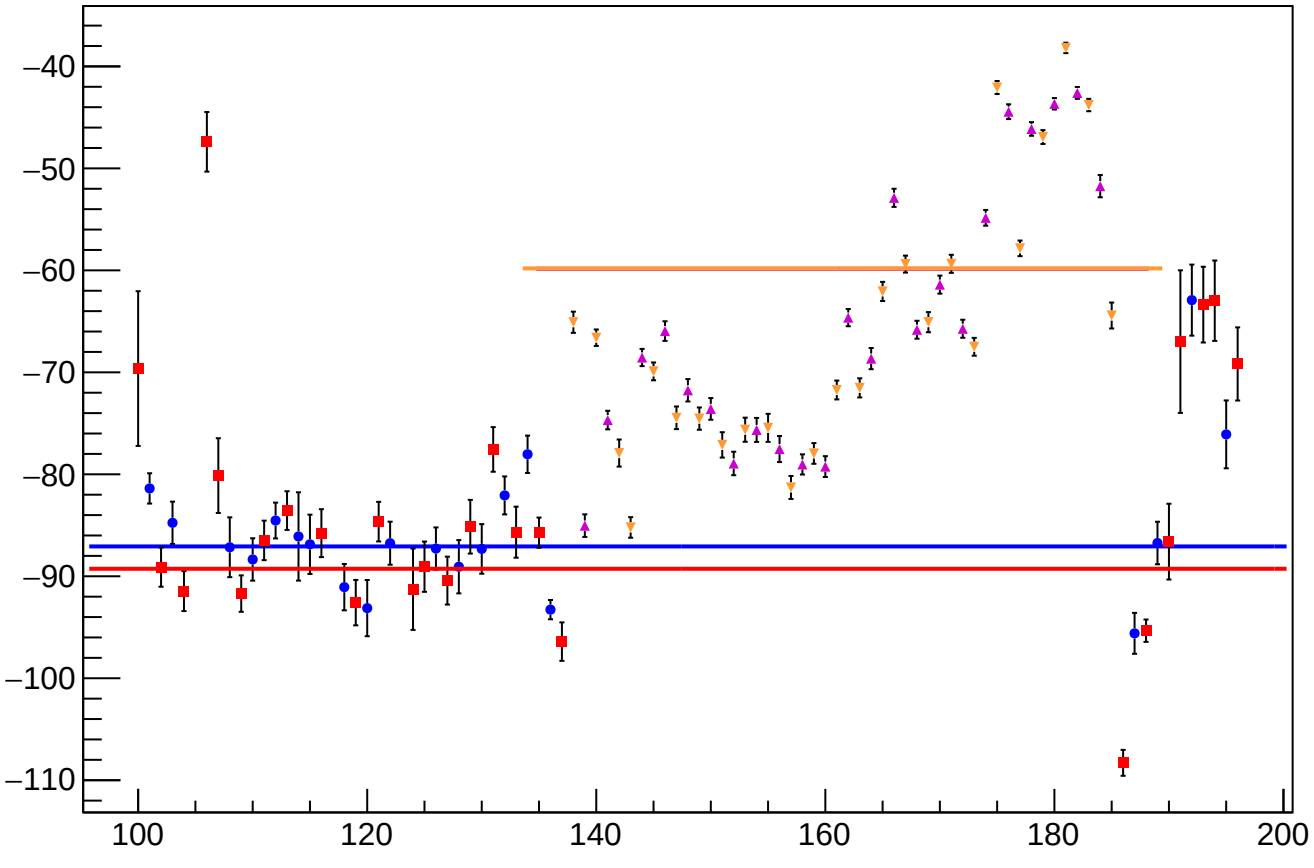
Left: 1.051+/-0.099 $\chi^2$/NDF: 3229.8/47

Right: -11.825+/-0.312 $\chi^2$/NDF: 1340.8/45

In: -0.272+/-0.136 $\chi^2$/NDF:3084.7/42

Out: 0.003+/-0.132 $\chi^2$/NDF:3026.0/50

All: -0.130+/-0.095 $\chi^2$/NDF: 6112.8/93




Right In: -87.073+/-0.448 $\chi^2$/NDF: 178.5/19

Left Out: -59.809+/-0.175 $\chi^2$/NDF:6645.1/24

Right Out: -89.264+/-0.420 $\chi^2$/NDF: 686.4/25

Left In: -59.846+/-0.181 $\chi^2$/NDF:5534.1/22

Left: -59.827+/-0.126 $\chi^2$/NDF: 12179.2/47

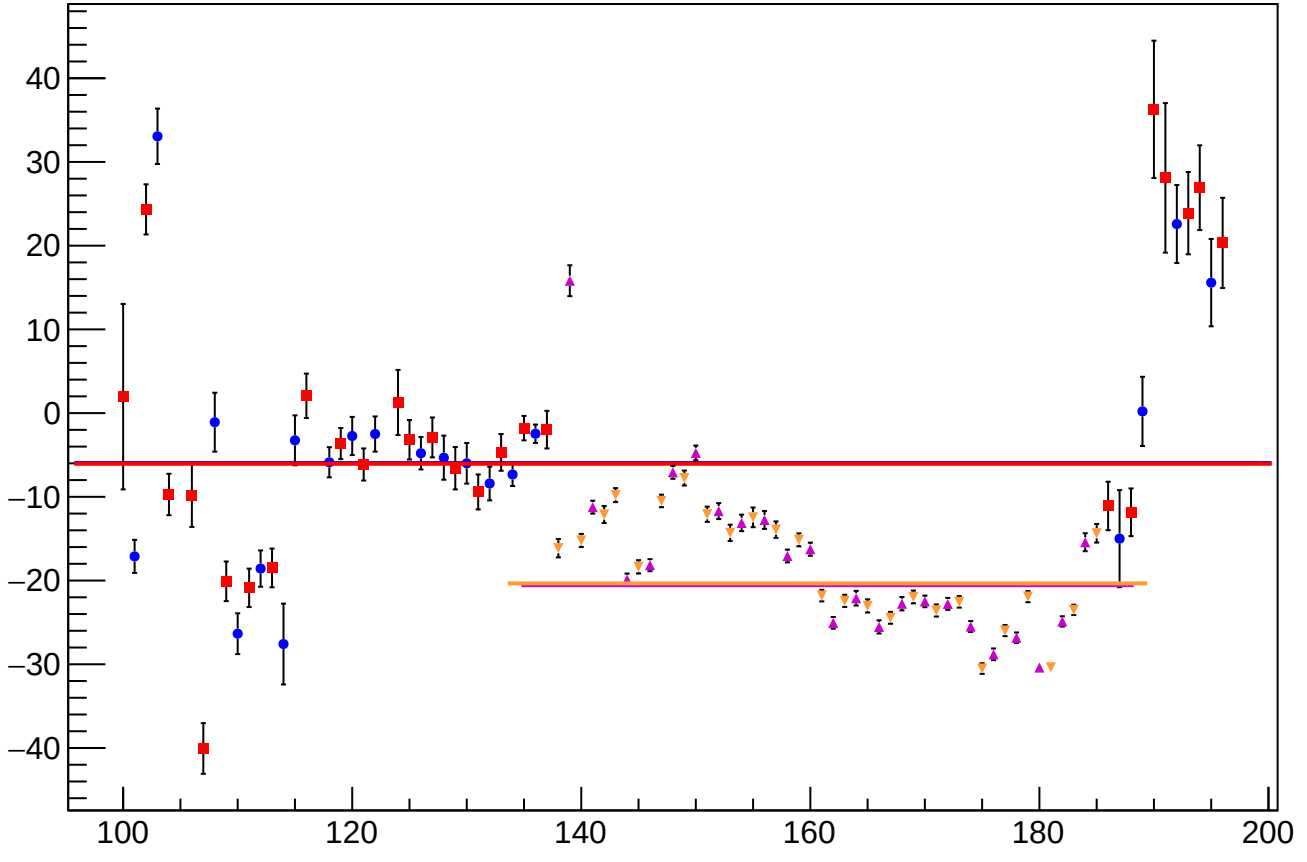
Right: -88.239+/-0.306 $\chi^2$/NDF: 877.6/45

In: -63.668+/-0.168 $\chi^2$/NDF:8886.6/42

Out: -64.178+/-0.162 $\chi^2$/NDF:11519.0/50

All: -63.932+/-0.116 $\chi^2$/NDF: 20410.4/93

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -5.968+/-0.497 $\chi^2$/NDF: 374.5/19

Left Out: -20.339+/-0.155 $\chi^2$/NDF:1701.1/24

Right Out: -6.047+/-0.513 $\chi^2$/NDF: 523.3/25

Left In: -20.555+/-0.160 $\chi^2$/NDF:2193.8/22

Left: -20.444+/-0.111 $\chi^2$/NDF: 3895.8/47

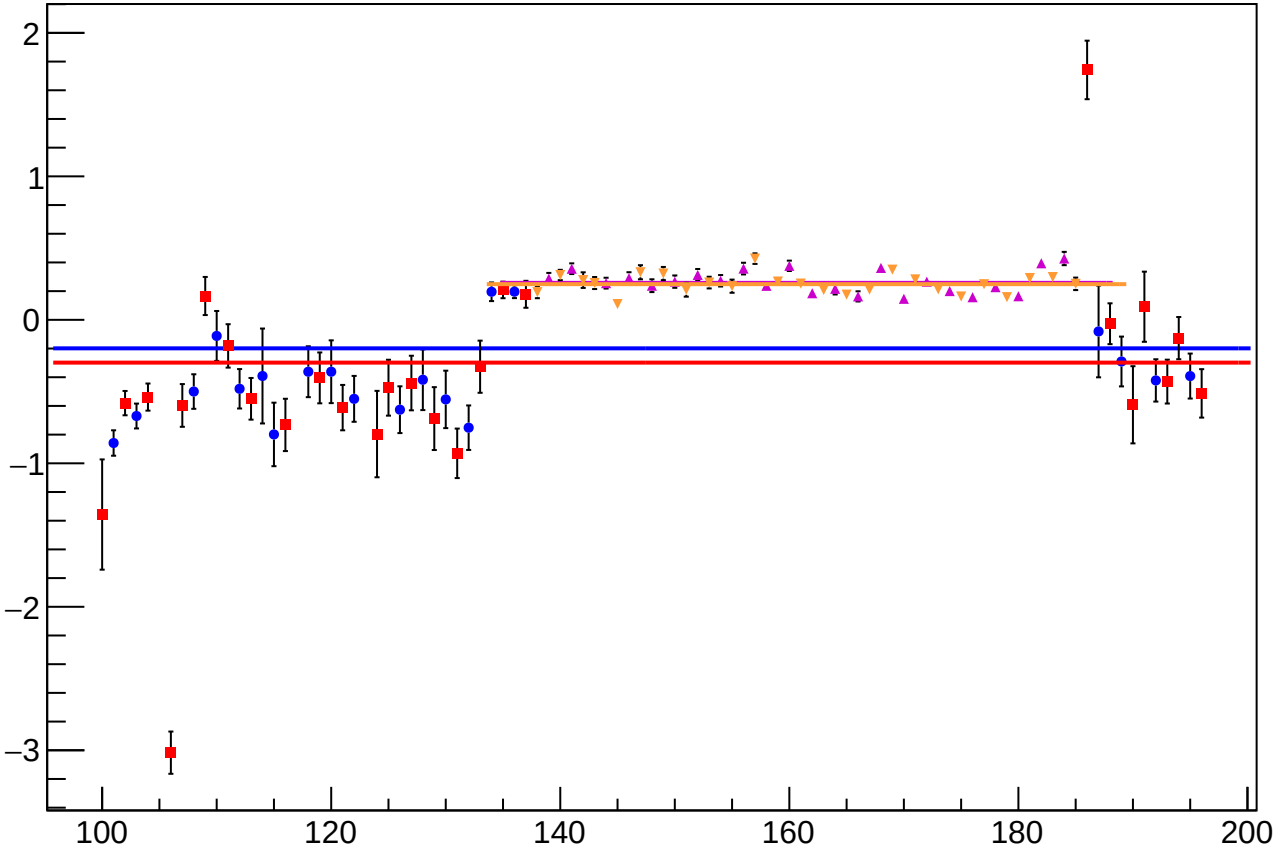
Right: -6.006+/-0.357 $\chi^2$/NDF: 897.7/45

In: -19.192+/-0.152 $\chi^2$/NDF:3349.1/42

Out: -19.151+/-0.148 $\chi^2$/NDF:2934.8/50

All: -19.171+/-0.106 $\chi^2$/NDF: 6283.9/93

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.199+/-0.026 $\chi^2$/NDF: 251.8/19

Left Out: 0.249+/-0.007 $\chi^2$/NDF:93.2/24

Right Out: -0.298+/-0.027 $\chi^2$/NDF: 630.6/25

Left In: 0.258+/-0.007 $\chi^2$/NDF:134.3/22

Left: 0.253+/-0.005 $\chi^2$/NDF: 228.3/47

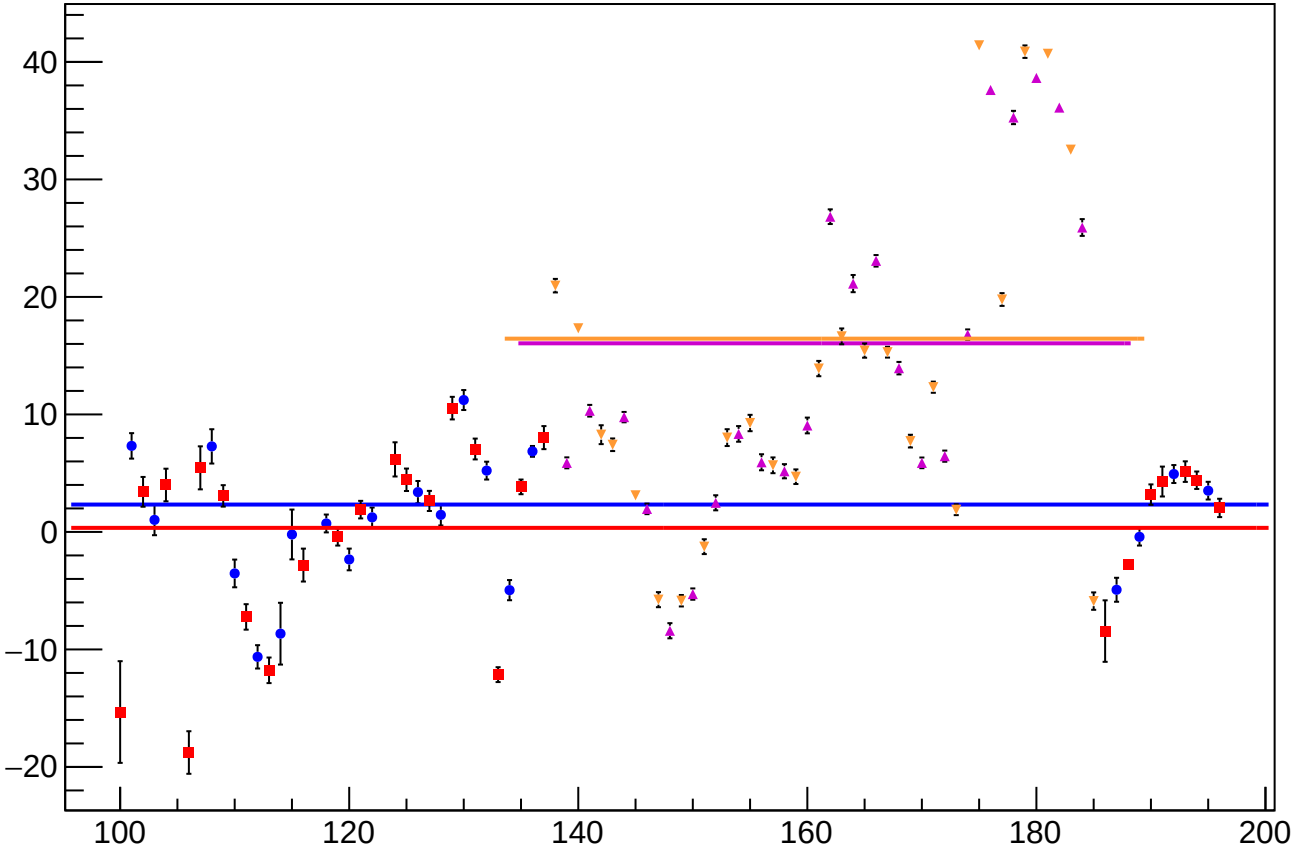
Right: -0.246+/-0.019 $\chi^2$/NDF: 889.7/45

In: 0.225+/-0.007 $\chi^2$/NDF:681.1/42

Out: 0.214+/-0.007 $\chi^2$/NDF:1113.6/50

All: 0.219+/-0.005 $\chi^2$/NDF: 1795.9/93

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 2.330+/-0.196 $\chi^2$/NDF: 652.9/19

Left Out: 16.449+/-0.104 $\chi^2$/NDF:21400.3/24

Right Out: 0.346+/-0.171 $\chi^2$/NDF: 1194.3/25

Left In: 16.051+/-0.107 $\chi^2$/NDF:17625.1/22

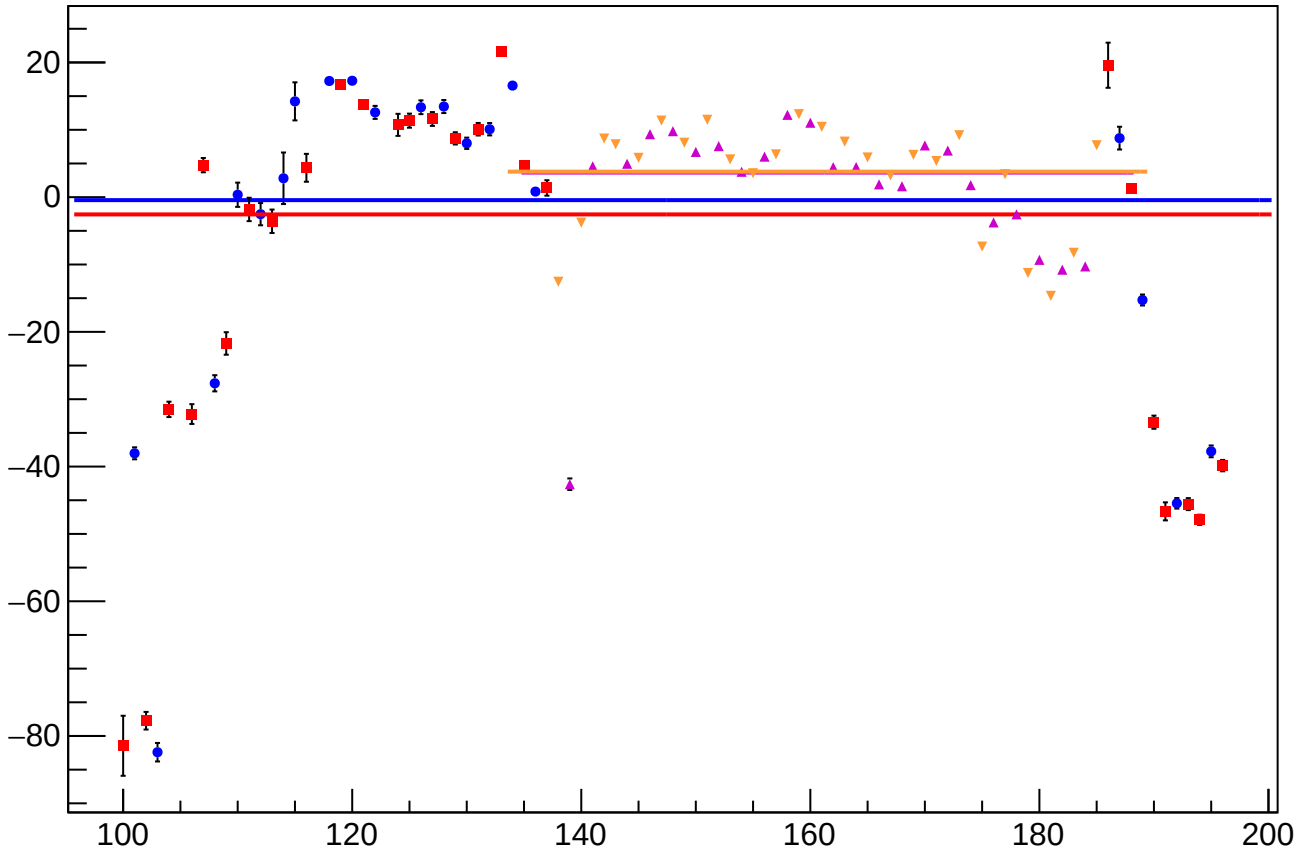
Left: 16.256+/-0.075 $\chi^2$/NDF: 39032.5/47

Right: 1.207+/-0.129 $\chi^2$/NDF: 1905.5/45

In: 12.878+/-0.094 $\chi^2$/NDF:22063.5/42

Out: 12.104+/-0.089 $\chi^2$/NDF:29062.4/50

All: 12.469+/-0.065 $\chi^2$/NDF: 51161.8/93




Right In: -0.443+/-0.191 $\chi^2$/NDF: 15283.2/19

Left Out: 3.790+/-0.080 $\chi^2$/NDF:9100.7/24

Right Out: -2.561+/-0.176 $\chi^2$/NDF: 20732.9/25

Left In: 3.649+/-0.083 $\chi^2$/NDF:8310.7/22

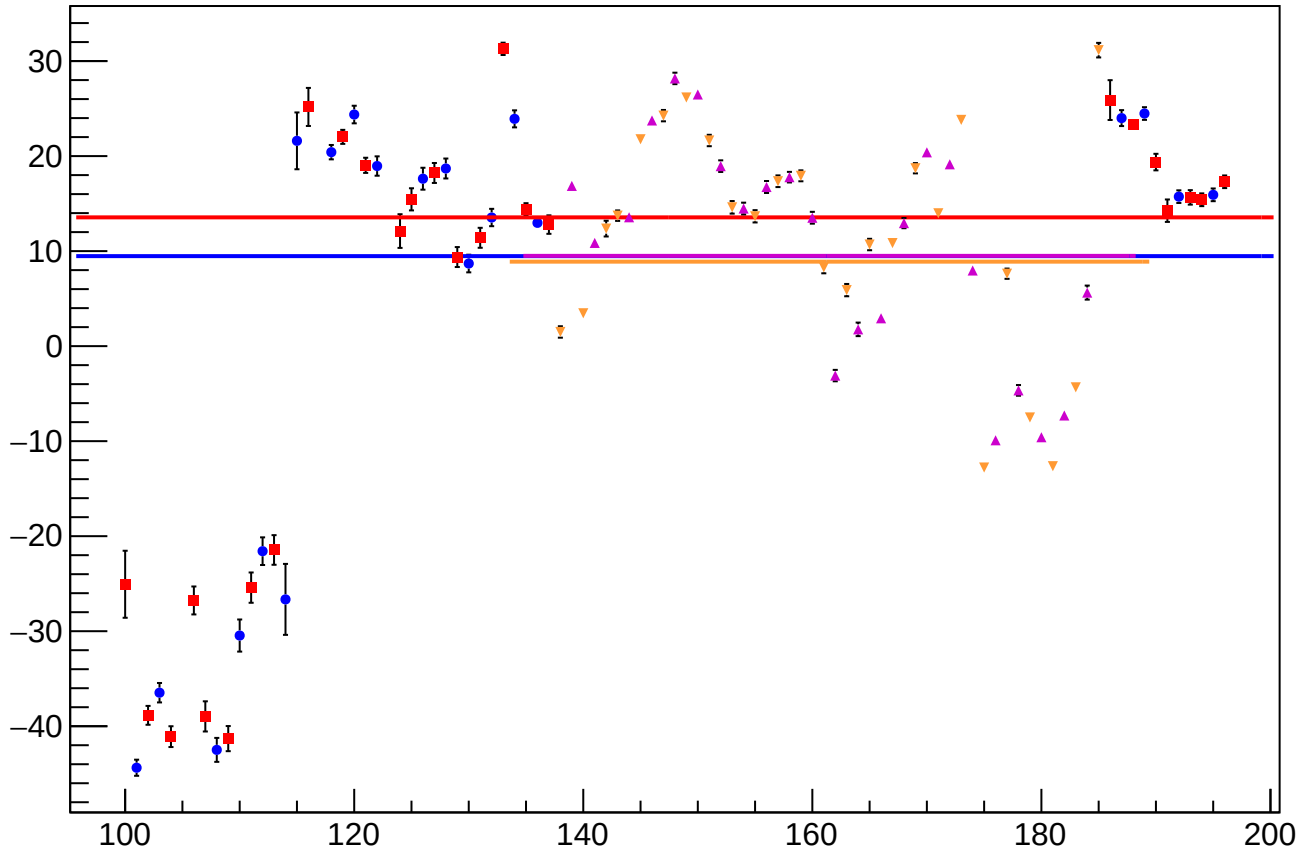
Left: 3.722+/-0.058 $\chi^2$/NDF: 17412.8/47

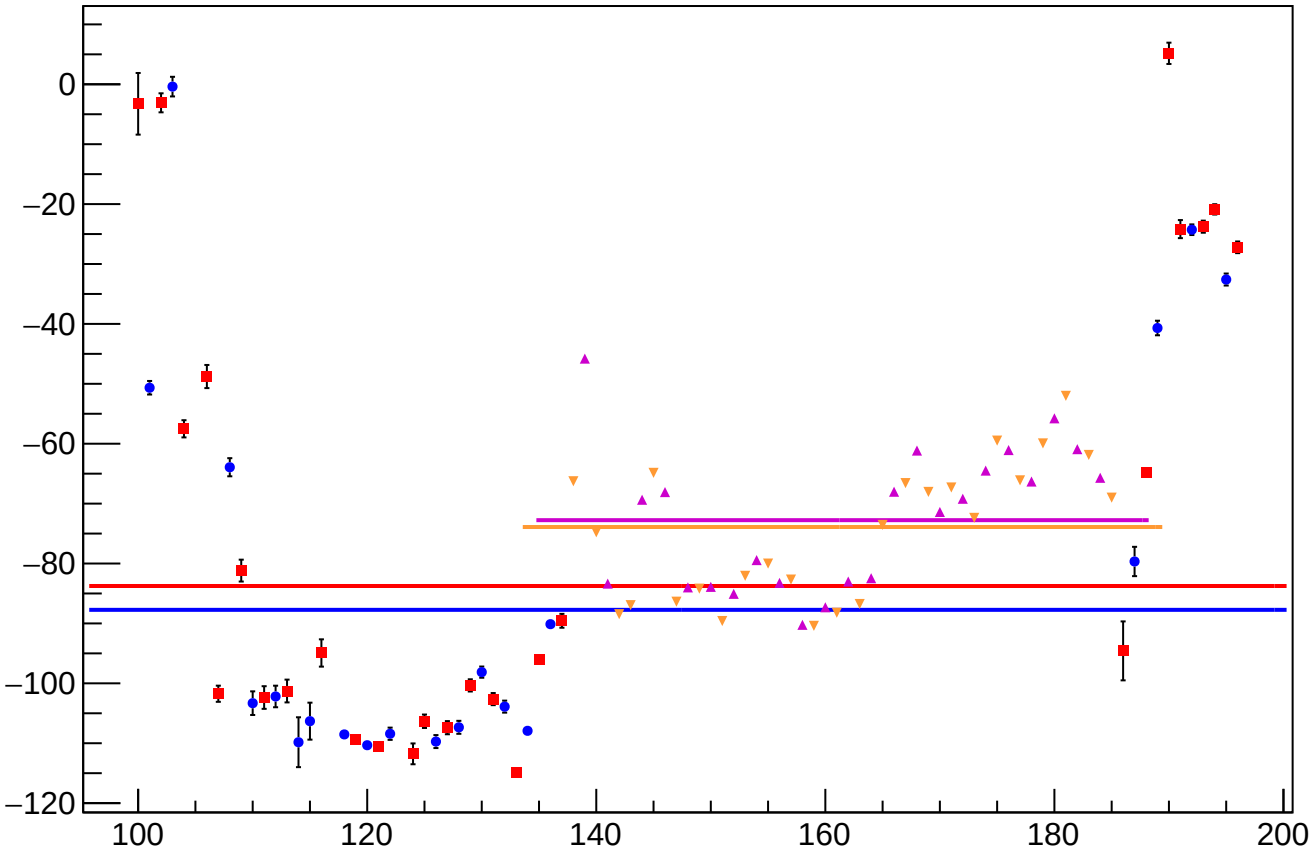
Right: -1.588+/-0.129 $\chi^2$/NDF: 36082.8/45

In: 2.997+/-0.076 $\chi^2$/NDF:23981.2/42

Out: 2.698+/-0.073 $\chi^2$/NDF:30914.9/50

All: 2.841+/-0.053 $\chi^2$/NDF: 54904.1/93


reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
30
20
10
0
−10
−20
−30
−40
100
120
140
160
180
200
Right In: 9.472+/-0.196 χ²/NDF: 10873.7/19
Left Out: 8.892+/-0.104 χ²/NDF:15428.1/24
Right Out: 13.552+/-0.165 χ²/NDF: 12231.9/25
Left In: 9.500+/-0.107 χ²/NDF:13040.9/22
Left: 9.188+/-0.074 χ²/NDF: 28485.8/47
Right: 11.861+/-0.126 χ²/NDF: 23358.0/45
In: 9.494+/-0.094 χ²/NDF:23914.6/42
Out: 10.208+/-0.088 χ²/NDF:28230.2/50
All: 9.874+/-0.064 χ²/NDF: 52175.8/93




Right In: -87.733+/-0.222 $\chi^2$/NDF: 18450.3/19

Left Out: -73.907+/-0.090 $\chi^2$/NDF:15567.0/24

Right Out: -83.752+/-0.209 $\chi^2$/NDF: 28761.7/25

Left In: -72.763+/-0.093 $\chi^2$/NDF:12612.6/22

Left: -73.353+/-0.065 $\chi^2$/NDF: 28257.1/47

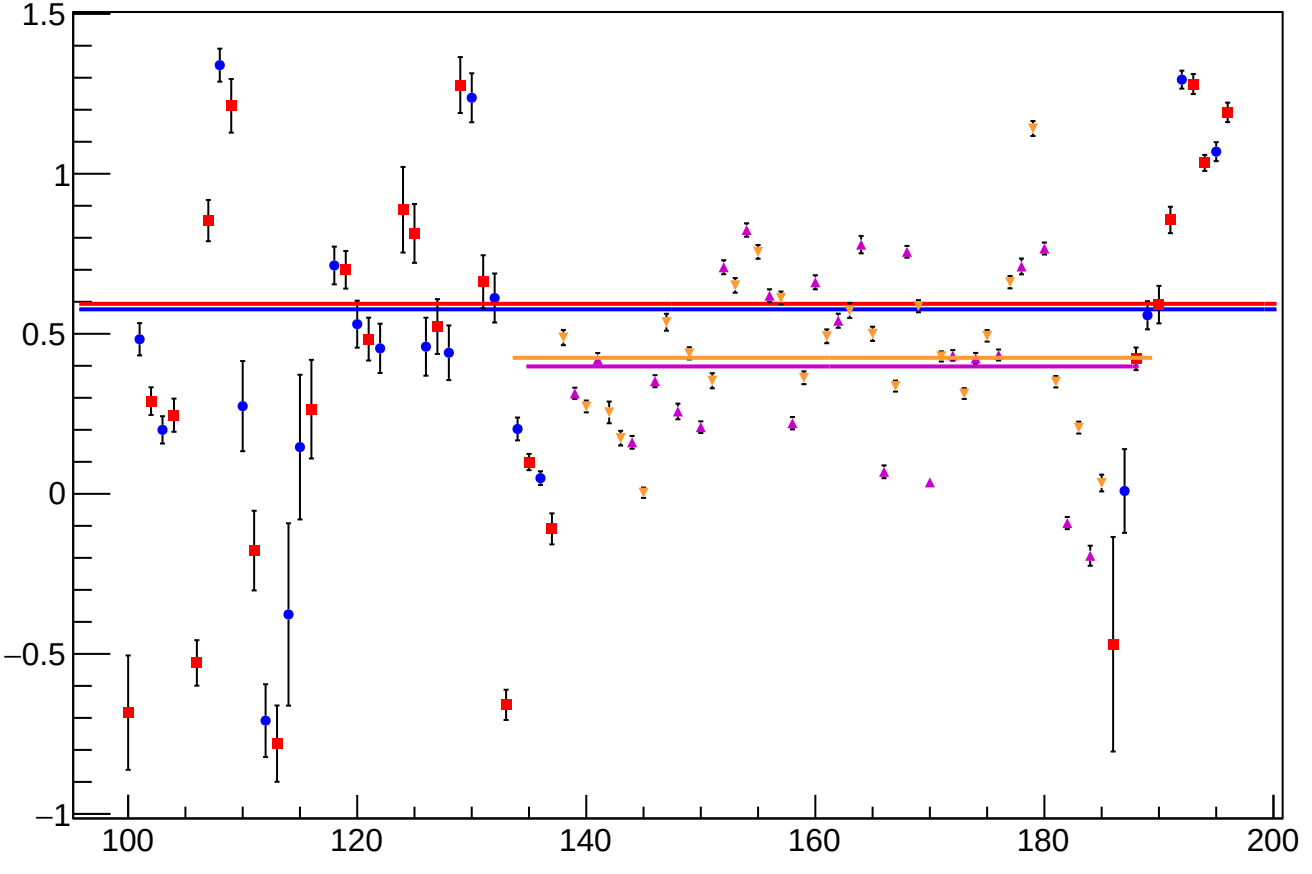
Right: -85.616+/-0.152 $\chi^2$/NDF: 47382.4/45

In: -75.005+/-0.086 $\chi^2$/NDF:34916.6/42

Out: -75.466+/-0.083 $\chi^2$/NDF:46204.0/50

All: -75.244+/-0.060 $\chi^2$/NDF: 81135.4/93

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.576+/-0.011 $\chi^2$/NDF: 2194.4/19

Left Out: 0.425+/-0.004 $\chi^2$/NDF:3035.4/24

Right Out: 0.594+/-0.010 $\chi^2$/NDF: 3262.9/25

Left In: 0.398+/-0.004 $\chi^2$/NDF:4271.0/22

Left: 0.412+/-0.003 $\chi^2$/NDF: 7328.2/47

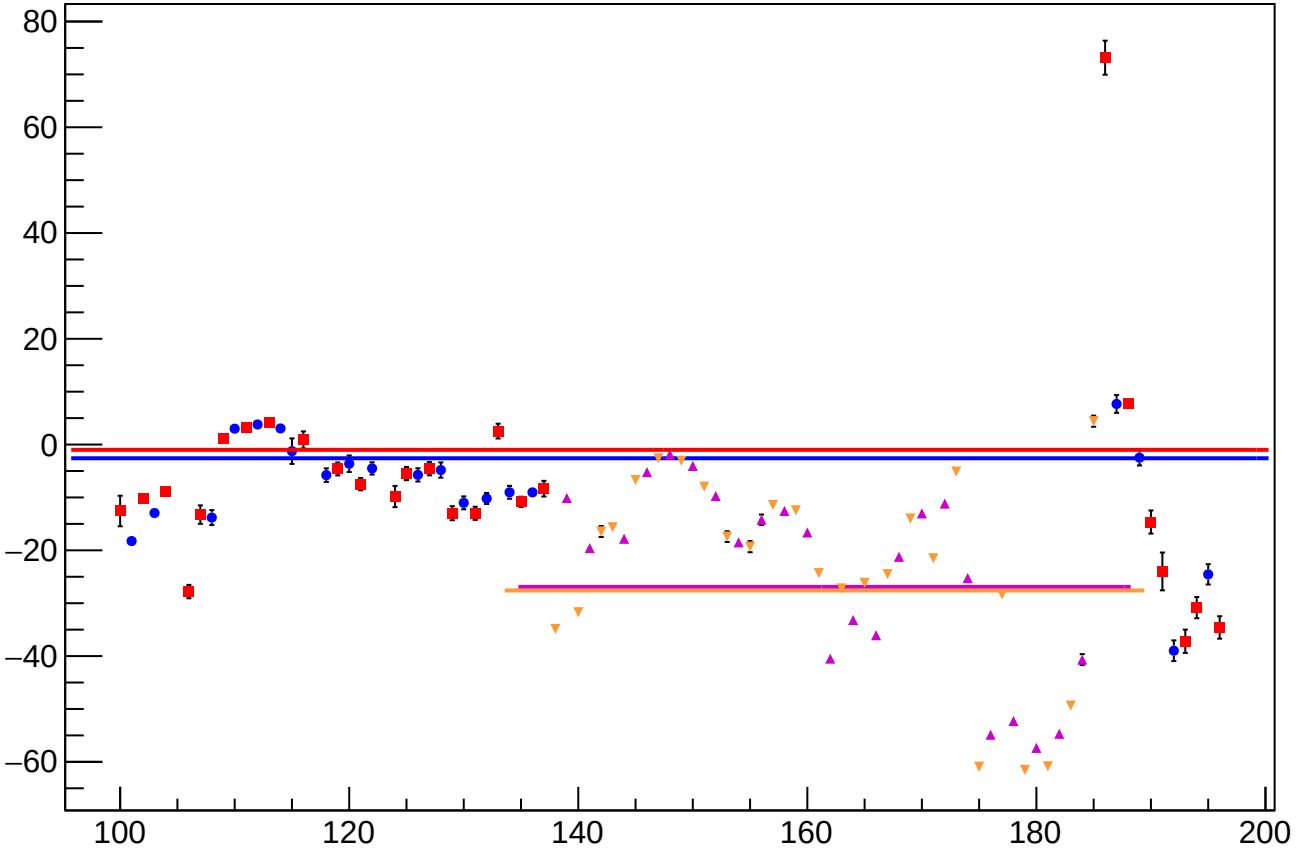
Right: 0.586+/-0.007 $\chi^2$/NDF: 5458.7/45

In: 0.421+/-0.004 $\chi^2$/NDF:6705.4/42

Out: 0.450+/-0.004 $\chi^2$/NDF:6555.3/50

All: 0.436+/-0.003 $\chi^2$/NDF: 13290.1/93

reg_asym_sam_1548_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -2.592+/-0.187 $\chi^2$/NDF: 2009.7/19

Left Out: -27.594+/-0.144 $\chi^2$/NDF:19761.6/24

Right Out: -0.997+/-0.164 $\chi^2$/NDF: 2949.0/25

Left In: -26.918+/-0.149 $\chi^2$/NDF:15536.6/22

Left: -27.267+/-0.104 $\chi^2$/NDF: 35308.8/47

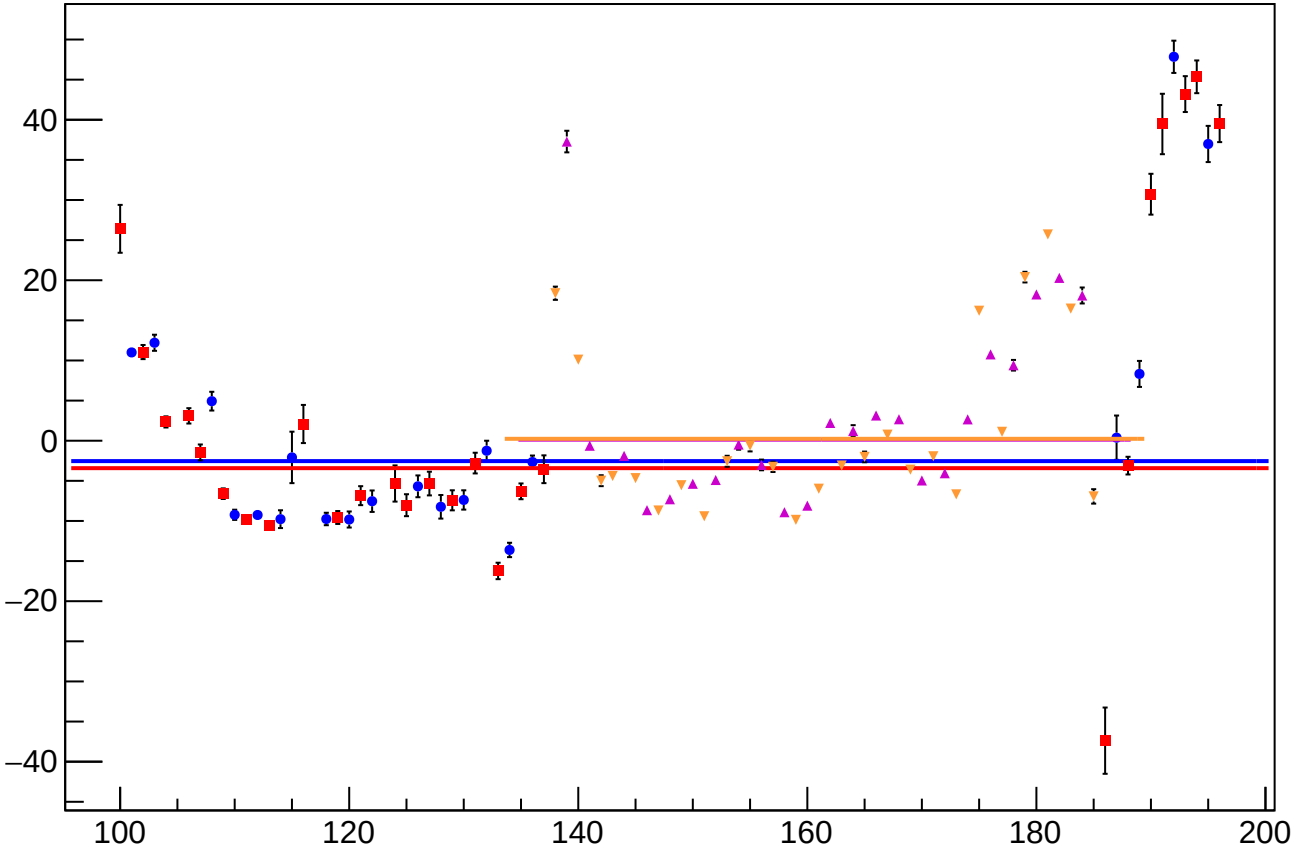
Right: -1.689+/-0.123 $\chi^2$/NDF: 4999.7/45

In: -17.479+/-0.117 $\chi^2$/NDF:27860.1/42

Out: -15.986+/-0.108 $\chi^2$/NDF:37536.4/50

All: -16.677+/-0.079 $\chi^2$/NDF: 65484.4/93

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.540+/-0.220 $\chi^2$/NDF: 2438.0/19

Left Out: 0.238+/-0.110 $\chi^2$/NDF:8035.6/24

Right Out: -3.420+/-0.210 $\chi^2$/NDF: 2771.0/25

Left In: 0.131+/-0.114 $\chi^2$/NDF:5837.4/22

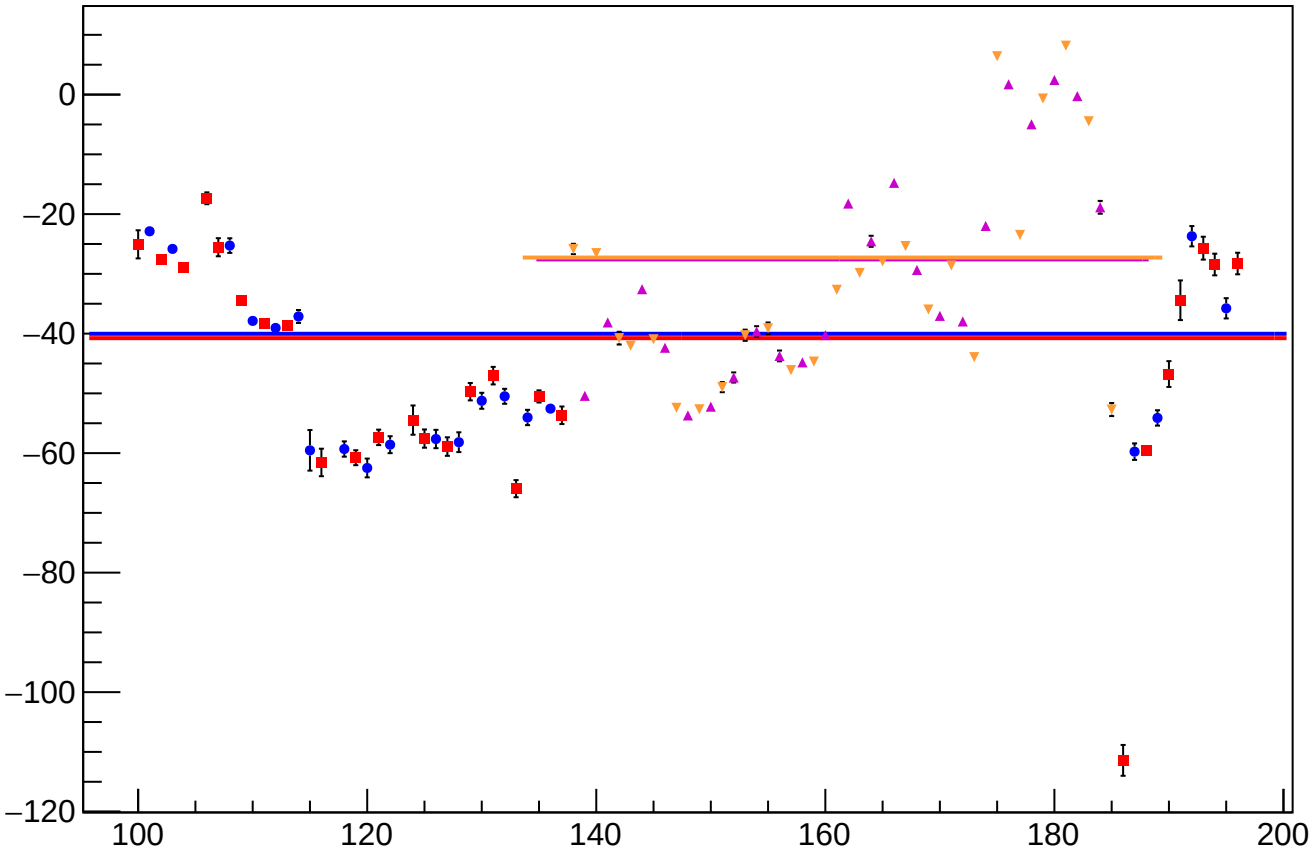
Left: 0.187+/-0.079 $\chi^2$/NDF: 13873.5/47

Right: -3.000+/-0.152 $\chi^2$/NDF: 5217.4/45

In: -0.436+/-0.102 $\chi^2$/NDF:8391.1/42

Out: -0.552+/-0.098 $\chi^2$/NDF:11044.1/50

All: -0.496+/-0.070 $\chi^2$/NDF: 19435.9/93




Right In: -40.029+/-0.216 $\chi^2$/NDF: 3388.0/19

Left Out: -27.271+/-0.144 $\chi^2$/NDF:18526.9/24

Right Out: -40.763+/-0.196 $\chi^2$/NDF: 4703.1/25

Left In: -27.583+/-0.148 $\chi^2$/NDF:15648.7/22

Left: -27.423+/-0.103 $\chi^2$/NDF: 34177.9/47

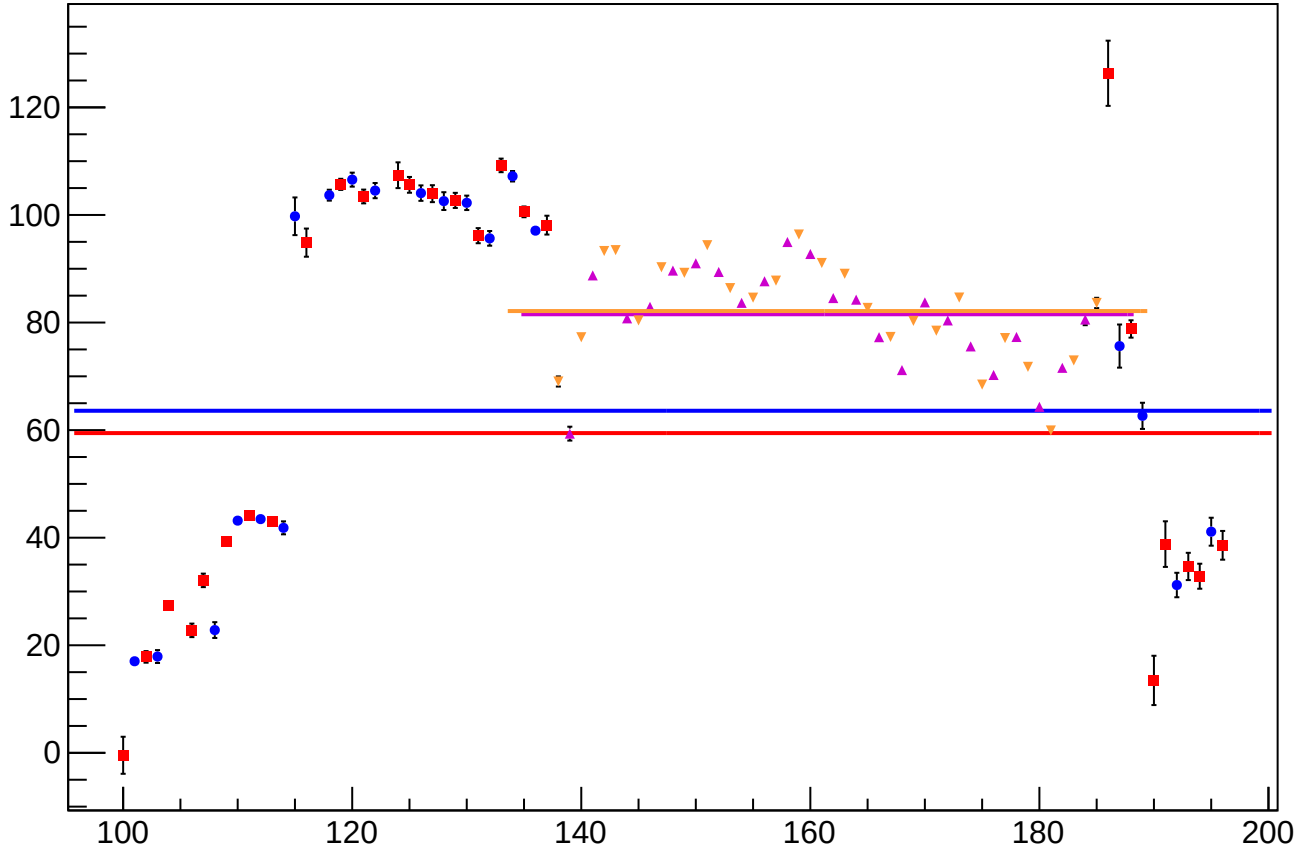
Right: -40.431+/-0.145 $\chi^2$/NDF: 8097.5/45

In: -31.575+/-0.122 $\chi^2$/NDF:21298.7/42

Out: -31.999+/-0.116 $\chi^2$/NDF:26310.9/50

All: -31.798+/-0.084 $\chi^2$/NDF: 47615.9/93

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 63.598+/-0.253 $\chi^2$/NDF: 18888.8/19

Left Out: 82.134+/-0.125 $\chi^2$/NDF:5375.9/24

Right Out: 59.447+/-0.241 $\chi^2$/NDF: 18111.0/25

Left In: 81.539+/-0.129 $\chi^2$/NDF:4043.0/22

Left: 81.846+/-0.090 $\chi^2$/NDF: 9429.9/47

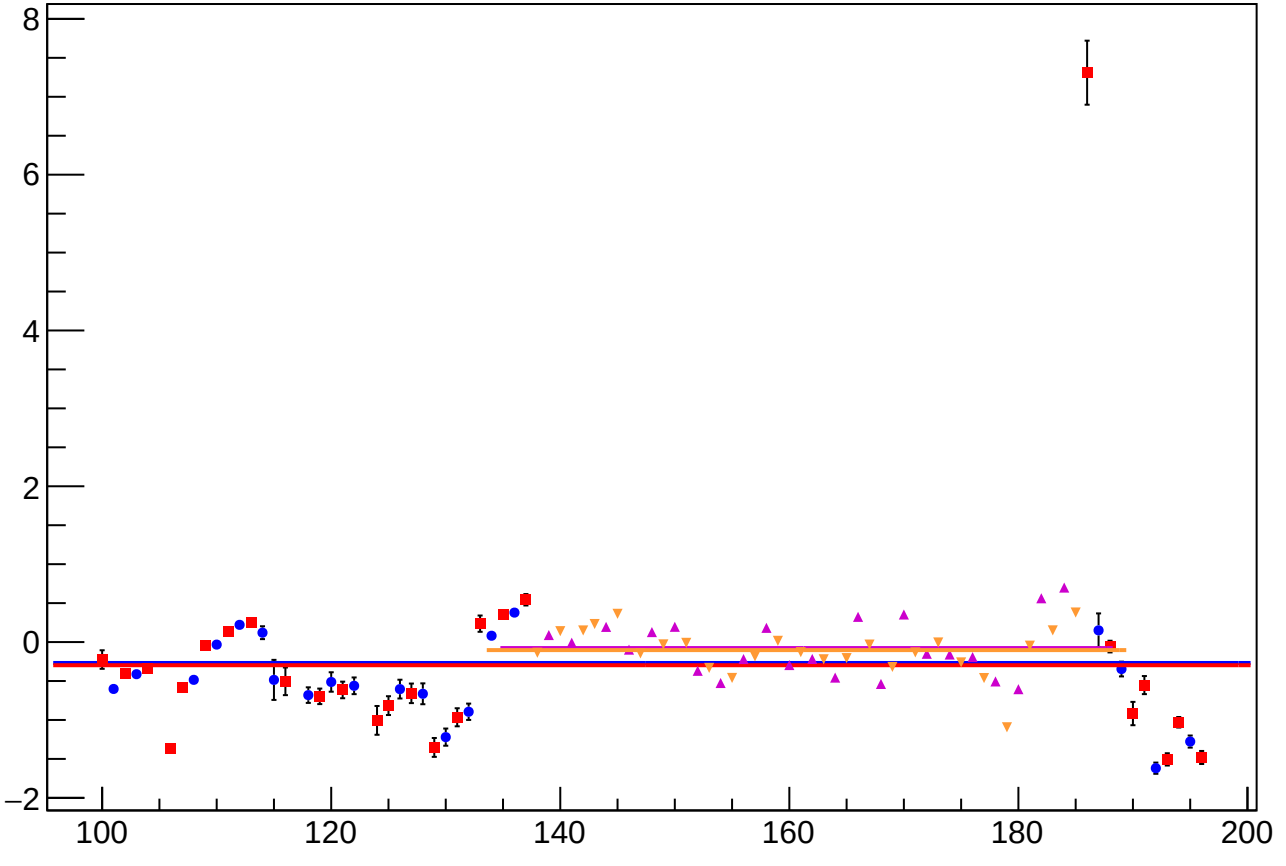
Right: 61.427+/-0.175 $\chi^2$/NDF: 37140.9/45

In: 77.834+/-0.115 $\chi^2$/NDF:26929.5/42

Out: 77.352+/-0.111 $\chi^2$/NDF:30456.9/50

All: 77.584+/-0.080 $\chi^2$/NDF: 57395.5/93

reg_asym_sam_1548_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.268+/-0.013 $\chi^2$/NDF: 1477.6/19

Left Out: -0.103+/-0.006 $\chi^2$/NDF:2408.2/24

Right Out: -0.297+/-0.012 $\chi^2$/NDF: 2335.1/25

Left In: -0.077+/-0.006 $\chi^2$/NDF:3320.8/22

Left: -0.090+/-0.004 $\chi^2$/NDF: 5739.7/47

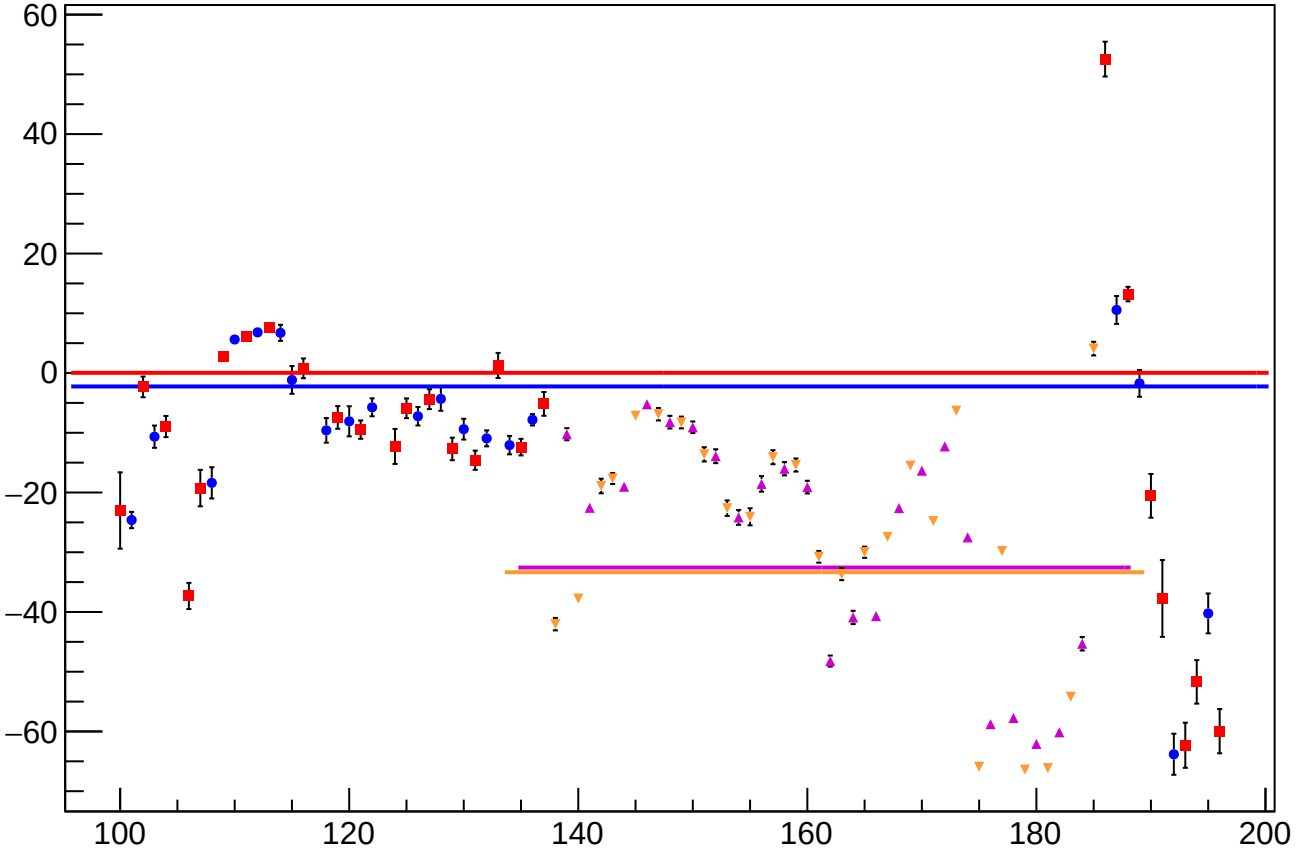
Right: -0.284+/-0.009 $\chi^2$/NDF: 3815.3/45

In: -0.109+/-0.005 $\chi^2$/NDF:4982.9/42

Out: -0.137+/-0.005 $\chi^2$/NDF:4954.1/50

All: -0.123+/-0.004 $\chi^2$/NDF: 9952.5/93

reg_asym_sam_3748_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -2.247+/-0.300 $\chi^2$/NDF: 1384.1/19

Left Out: -33.346+/-0.165 $\chi^2$/NDF:17989.6/24

Right Out: 0.039+/-0.270 $\chi^2$/NDF: 2174.4/25

Left In: -32.559+/-0.169 $\chi^2$/NDF:13896.0/22

Left: -32.964+/-0.118 $\chi^2$/NDF: 31896.7/47

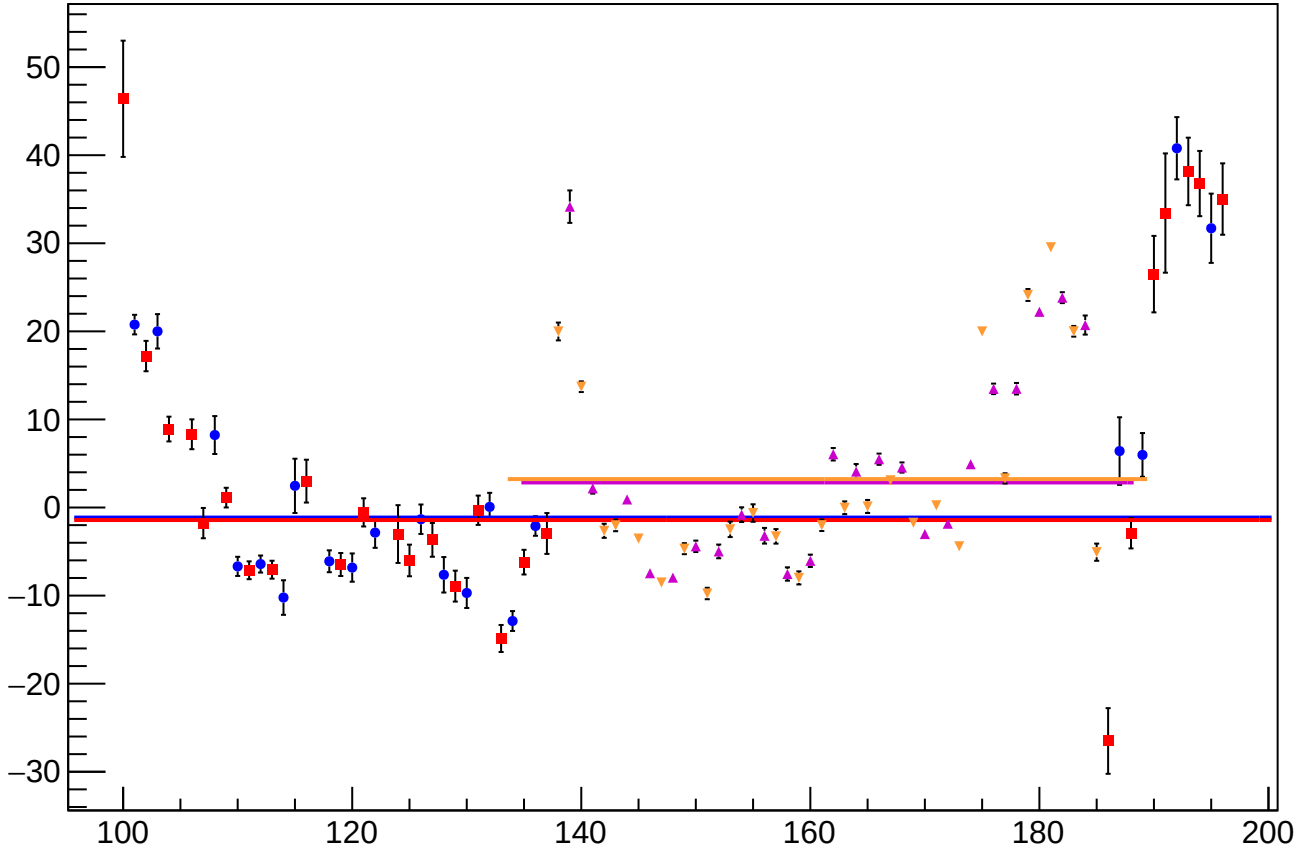
Right: -0.984+/-0.201 $\chi^2$/NDF: 3590.5/45

In: -25.238+/-0.148 $\chi^2$/NDF:23010.5/42

Out: -24.313+/-0.141 $\chi^2$/NDF:31294.2/50

All: -24.753+/-0.102 $\chi^2$/NDF: 54325.3/93

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -1.143+/-0.348 $\chi^2$/NDF: 1001.0/19

Left Out: 3.224+/-0.128 $\chi^2$/NDF:7675.6/24

Right Out: -1.423+/-0.341 $\chi^2$/NDF: 865.9/25

Left In: 2.845+/-0.131 $\chi^2$/NDF:5455.5/22

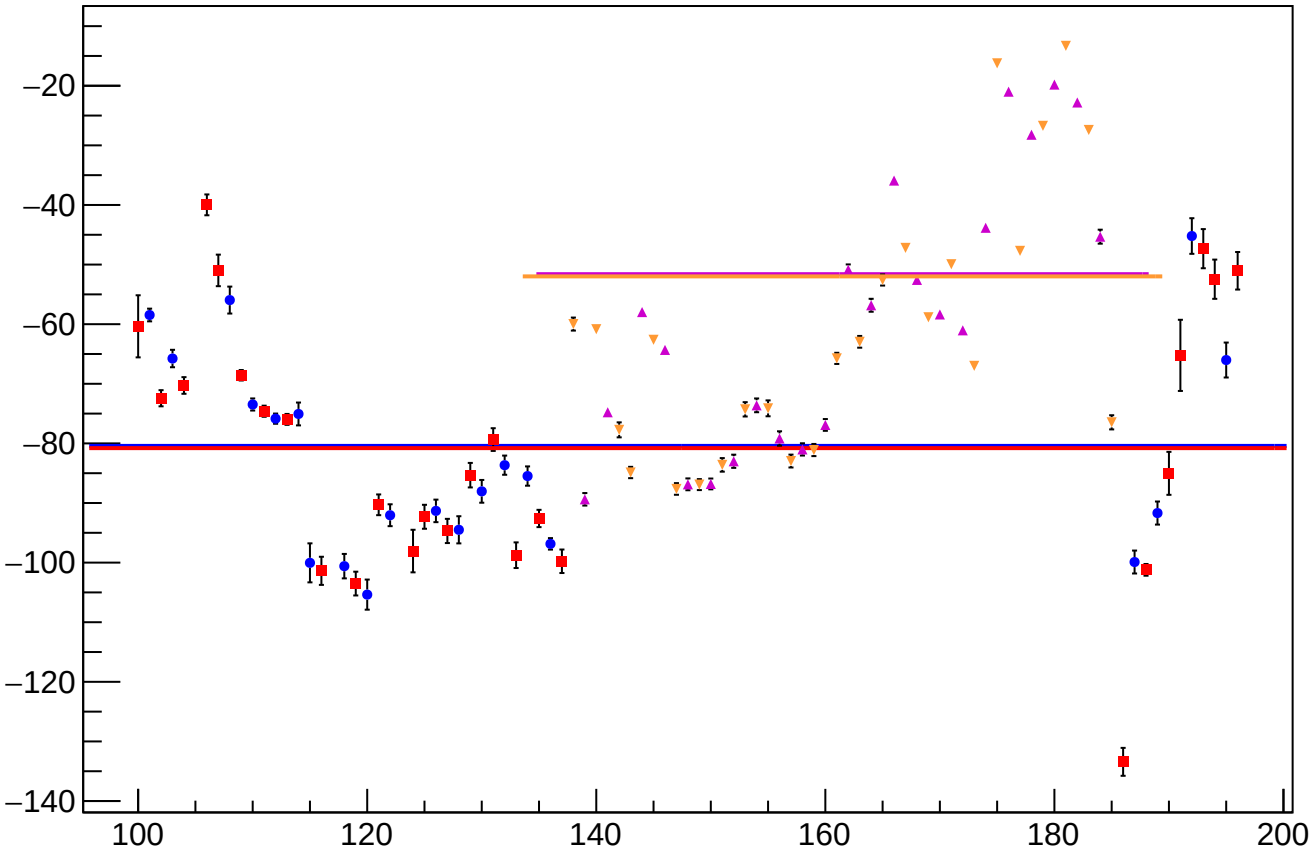
Left: 3.039+/-0.092 $\chi^2$/NDF: 13135.4/47

Right: -1.286+/-0.243 $\chi^2$/NDF: 1867.3/45

In: 2.349+/-0.123 $\chi^2$/NDF:6571.5/42

Out: 2.649+/-0.120 $\chi^2$/NDF:8704.4/50

All: 2.502+/-0.086 $\chi^2$/NDF: 15279.0/93




Right In: -80.421+/-0.347 $\chi^2$/NDF: 1687.6/19

Left Out: -51.982+/-0.165 $\chi^2$/NDF:20887.7/24

Right Out: -80.794+/-0.323 $\chi^2$/NDF: 2832.7/25

Left In: -51.612+/-0.169 $\chi^2$/NDF:17624.2/22

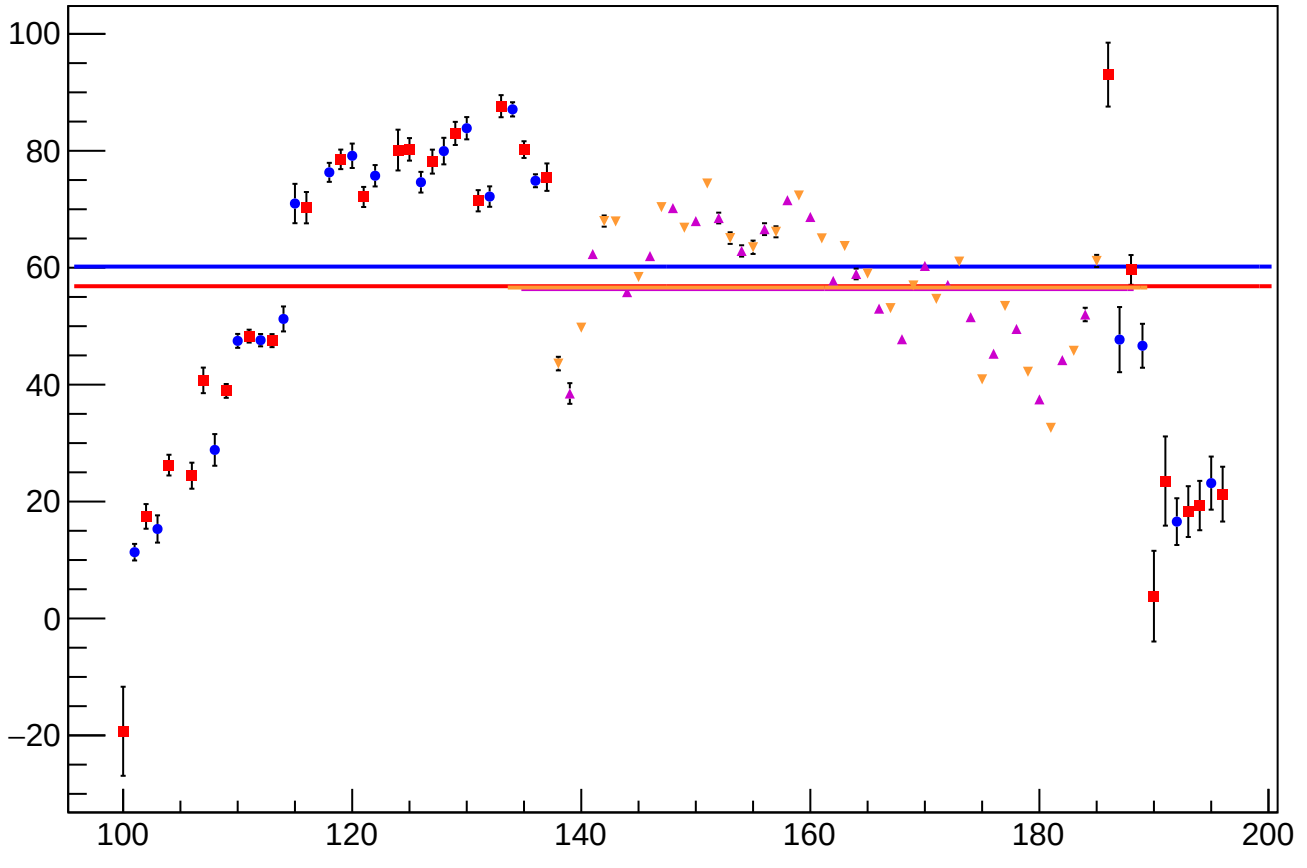
Left: -51.802+/-0.118 $\chi^2$/NDF: 38514.3/47

Right: -80.622+/-0.236 $\chi^2$/NDF: 4520.9/45

In: -57.134+/-0.152 $\chi^2$/NDF:24877.5/42

Out: -57.946+/-0.147 $\chi^2$/NDF:30046.1/50

All: -57.554+/-0.106 $\chi^2$/NDF: 54938.4/93




Right In: 60.195+/-0.394 $\chi^2$/NDF: 3438.4/19

Left Out: 56.612+/-0.144 $\chi^2$/NDF:5666.2/24

Right Out: 56.836+/-0.389 $\chi^2$/NDF: 3106.6/25

Left In: 56.348+/-0.147 $\chi^2$/NDF:3968.7/22

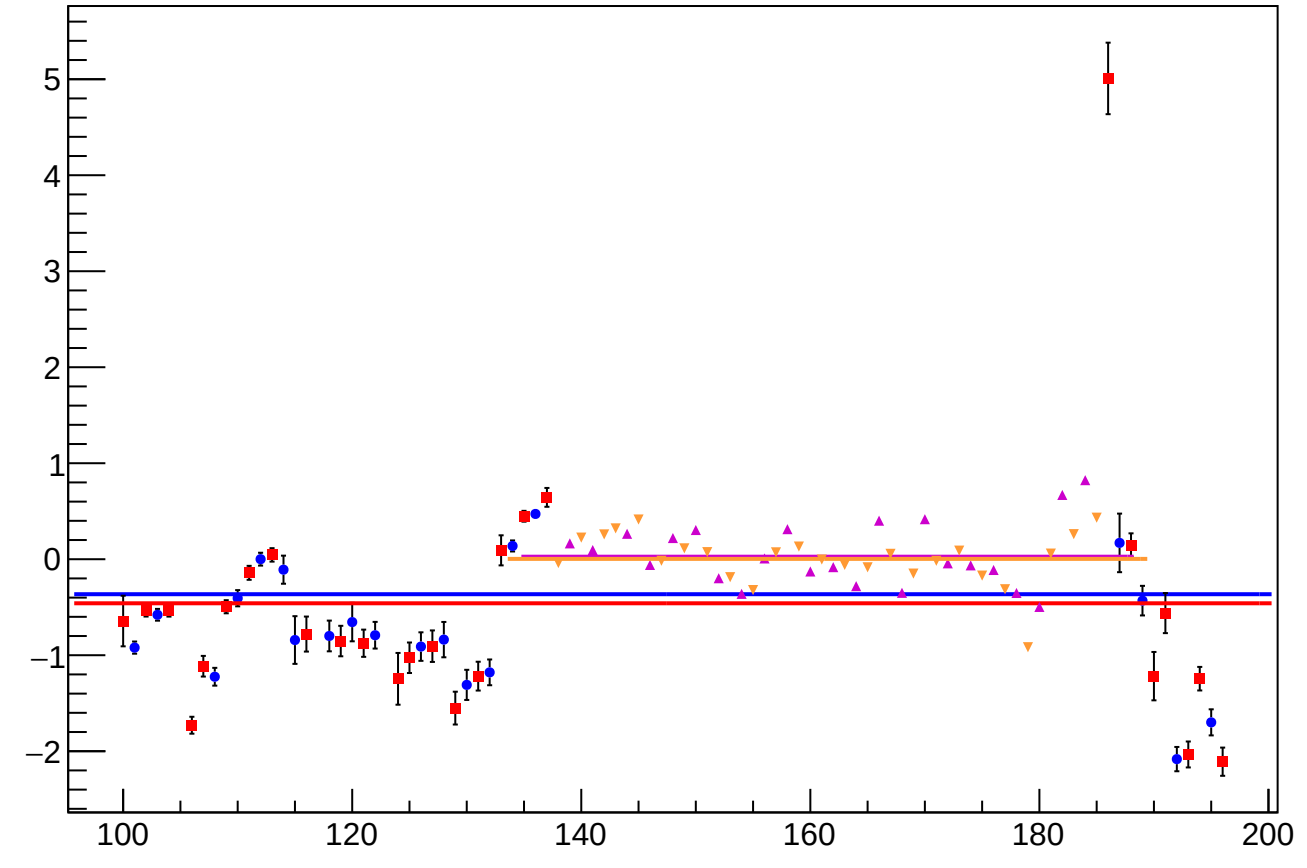
Left: 56.483+/-0.103 $\chi^2$/NDF: 9636.5/47

Right: 58.492+/-0.277 $\chi^2$/NDF: 6581.9/45

In: 56.820+/-0.138 $\chi^2$/NDF:7490.8/42

Out: 56.639+/-0.135 $\chi^2$/NDF:8773.0/50

All: 56.728+/-0.096 $\chi^2$/NDF: 16264.7/93




Right In: -0.364+/-0.021 $\chi^2$/NDF: 1026.8/19

Left Out: 0.004+/-0.006 $\chi^2$/NDF:1701.0/24

Right Out: -0.459+/-0.021 $\chi^2$/NDF: 1381.5/25

Left In: 0.026+/-0.007 $\chi^2$/NDF:2349.0/22

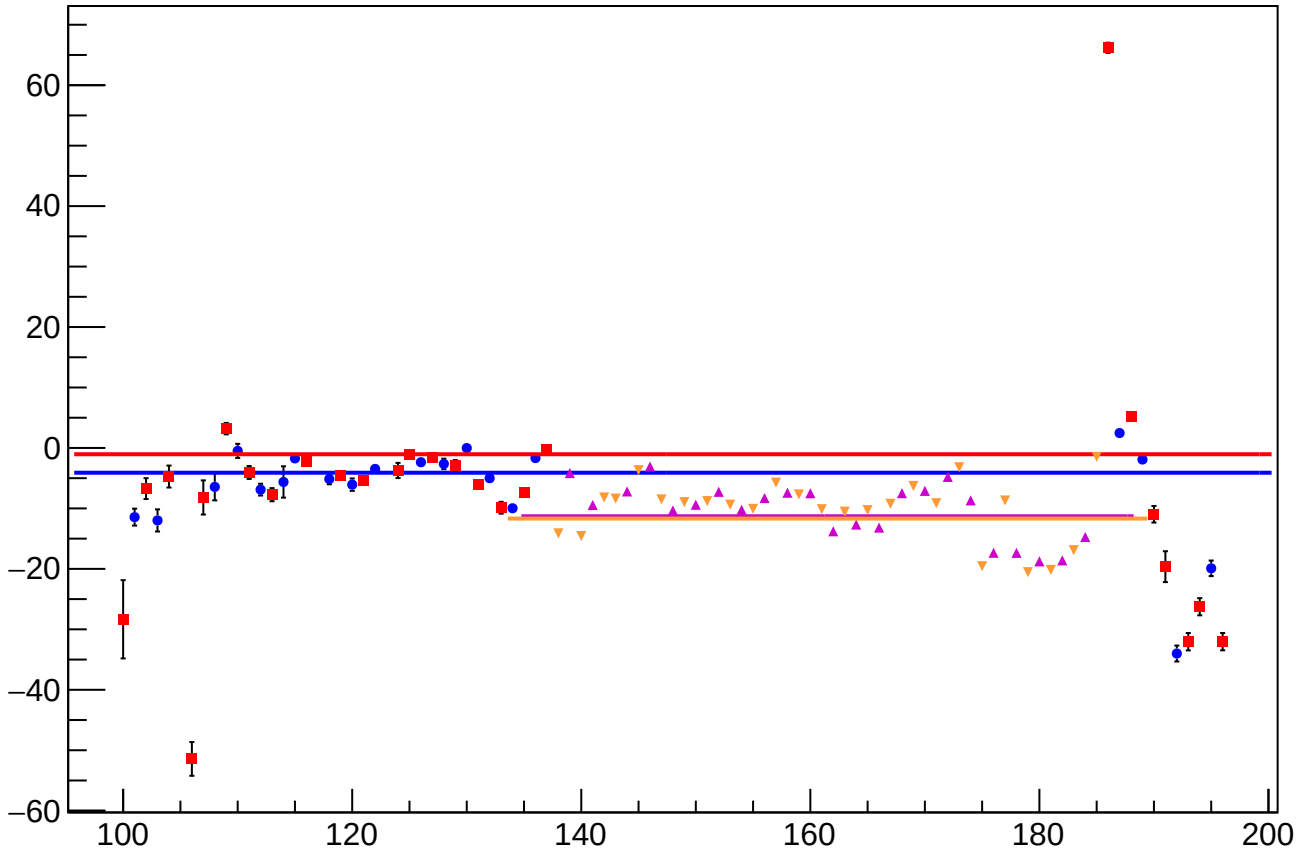
Left: 0.015+/-0.005 $\chi^2$/NDF: 4056.1/47

Right: -0.412+/-0.015 $\chi^2$/NDF: 2418.8/45

In: -0.009+/-0.006 $\chi^2$/NDF:3695.8/42

Out: -0.038+/-0.006 $\chi^2$/NDF:3543.0/50

All: -0.024+/-0.004 $\chi^2$/NDF: 7249.4/93




Right In: -4.096+/-0.176 $\chi^2$/NDF: 977.1/19

Left Out: -11.680+/-0.053 $\chi^2$/NDF:12602.3/24

Right Out: -1.040+/-0.171 $\chi^2$/NDF: 8718.4/25

Left In: -11.301+/-0.054 $\chi^2$/NDF:9229.2/22

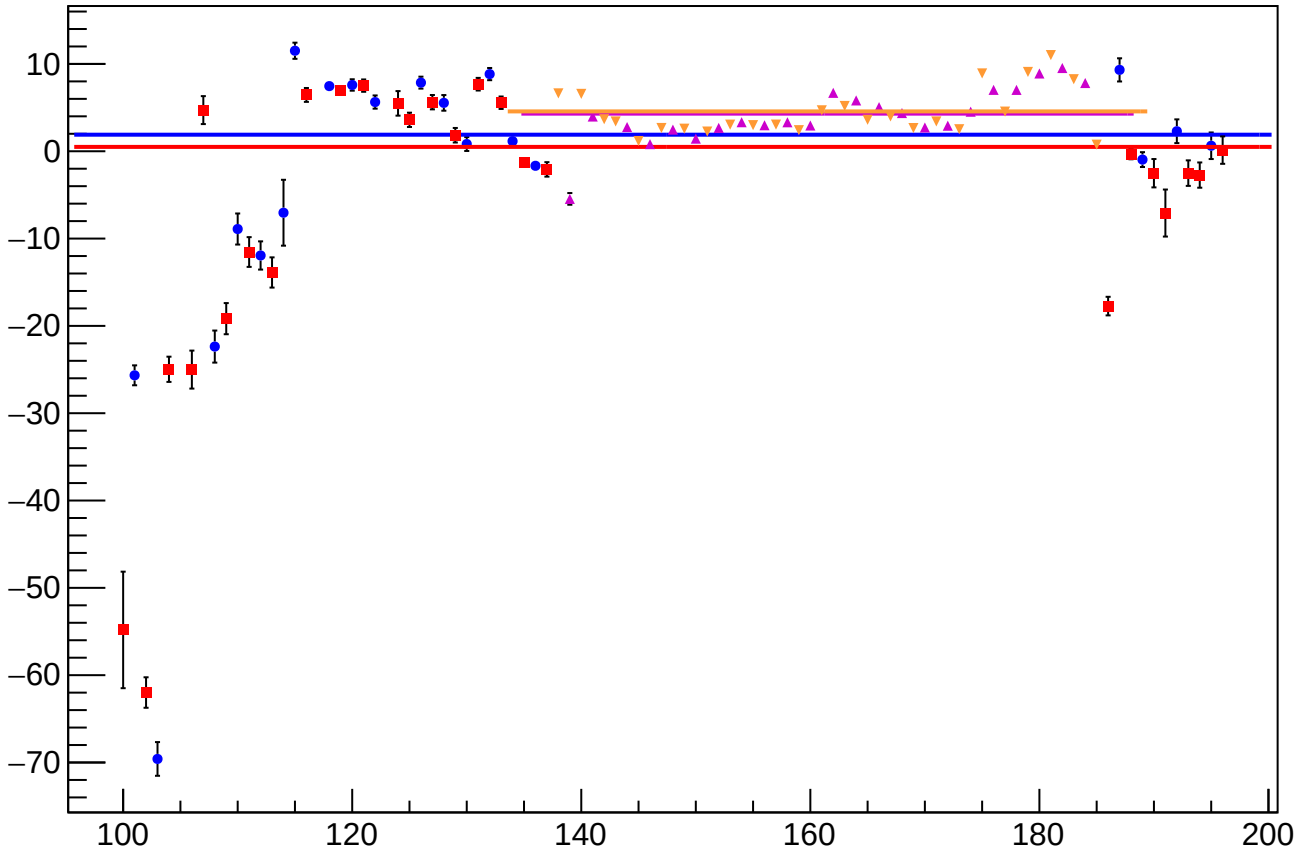
Left: -11.495+/-0.038 $\chi^2$/NDF: 21856.8/47

Right: -2.526+/-0.123 $\chi^2$/NDF: 9850.9/45

In: -10.680+/-0.052 $\chi^2$/NDF:11742.0/42

Out: -10.758+/-0.050 $\chi^2$/NDF:24858.4/50

All: -10.720+/-0.036 $\chi^2$/NDF: 36601.6/93




Right In: 1.896+/-0.180 $\chi^2$/NDF: 2881.5/19

Left Out: 4.564+/-0.041 $\chi^2$/NDF:4356.3/24

Right Out: 0.499+/-0.187 $\chi^2$/NDF: 2900.2/25

Left In: 4.308+/-0.042 $\chi^2$/NDF:3609.0/22

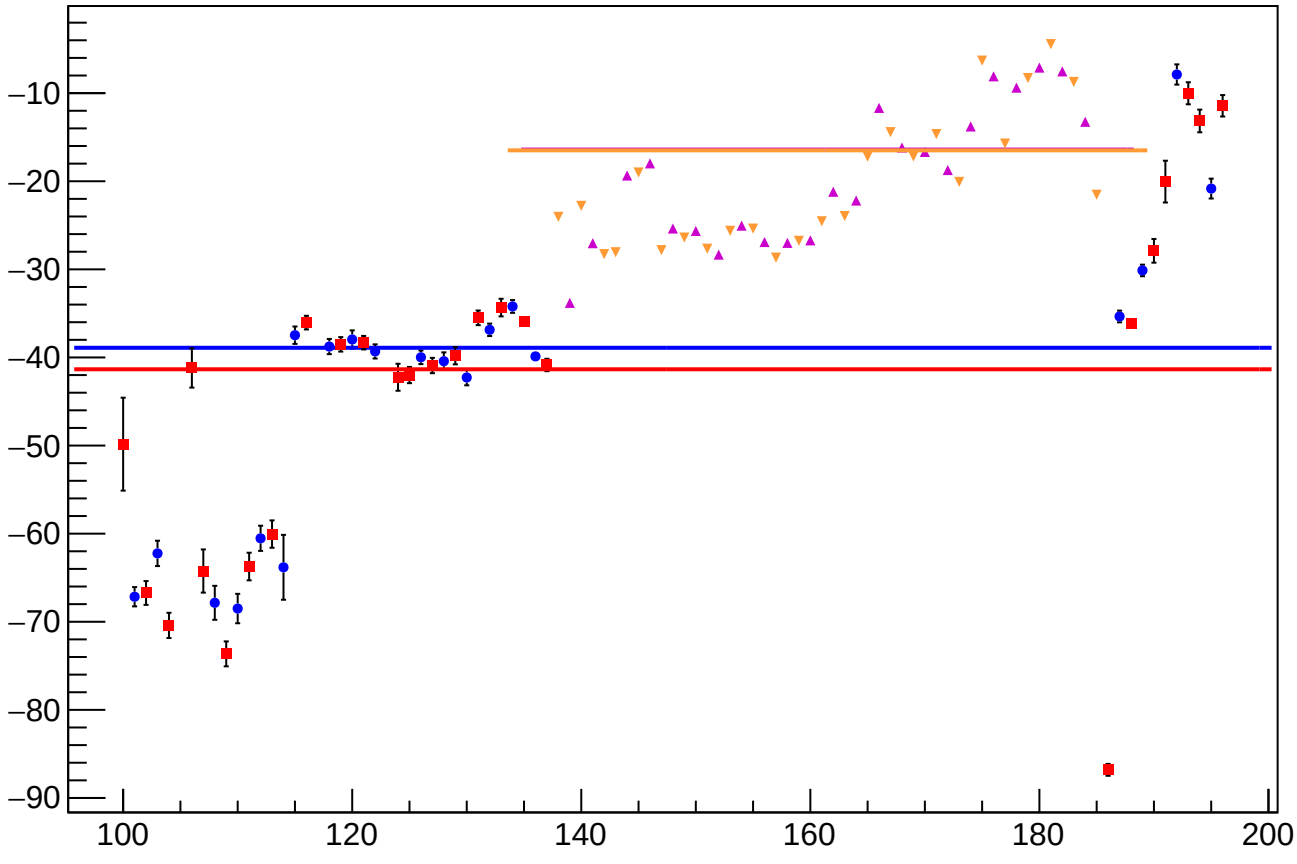
Left: 4.438+/-0.030 $\chi^2$/NDF: 7984.1/47

Right: 1.224+/-0.130 $\chi^2$/NDF: 5810.7/45

In: 4.183+/-0.041 $\chi^2$/NDF:6661.0/42

Out: 4.374+/-0.040 $\chi^2$/NDF:7707.1/50

All: 4.280+/-0.029 $\chi^2$/NDF: 14379.1/93




Right In: -38.902+/-0.185 $\chi^2$/NDF: 3015.1/19

Left Out: -16.492+/-0.053 $\chi^2$/NDF:21982.6/24

Right Out: -41.343+/-0.175 $\chi^2$/NDF: 8638.4/25

Left In: -16.403+/-0.054 $\chi^2$/NDF:18032.3/22

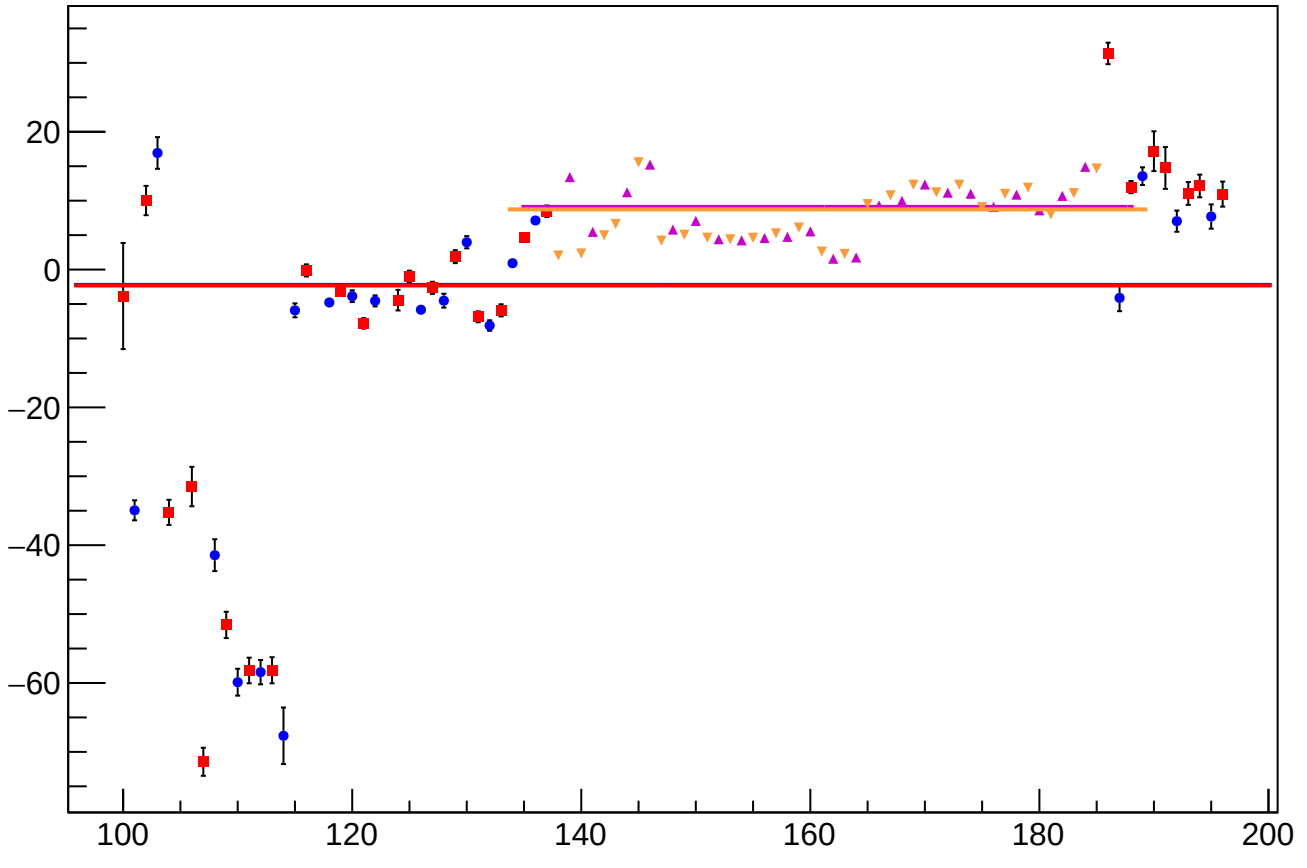
Left: -16.448+/-0.038 $\chi^2$/NDF: 40016.4/47

Right: -40.185+/-0.127 $\chi^2$/NDF: 11745.3/45

In: -18.170+/-0.052 $\chi^2$/NDF:34723.0/42

Out: -18.556+/-0.051 $\chi^2$/NDF:49026.2/50

All: -18.367+/-0.036 $\chi^2$/NDF: 83777.7/93




Right In: -2.225+/-0.203 $\chi^2$/NDF: 3957.2/19

Left Out: 8.735+/-0.046 $\chi^2$/NDF:6875.5/24

Right Out: -2.308+/-0.215 $\chi^2$/NDF: 5512.4/25

Left In: 9.096+/-0.047 $\chi^2$/NDF:5739.5/22

Left: 8.912+/-0.033 $\chi^2$/NDF: 12645.1/47

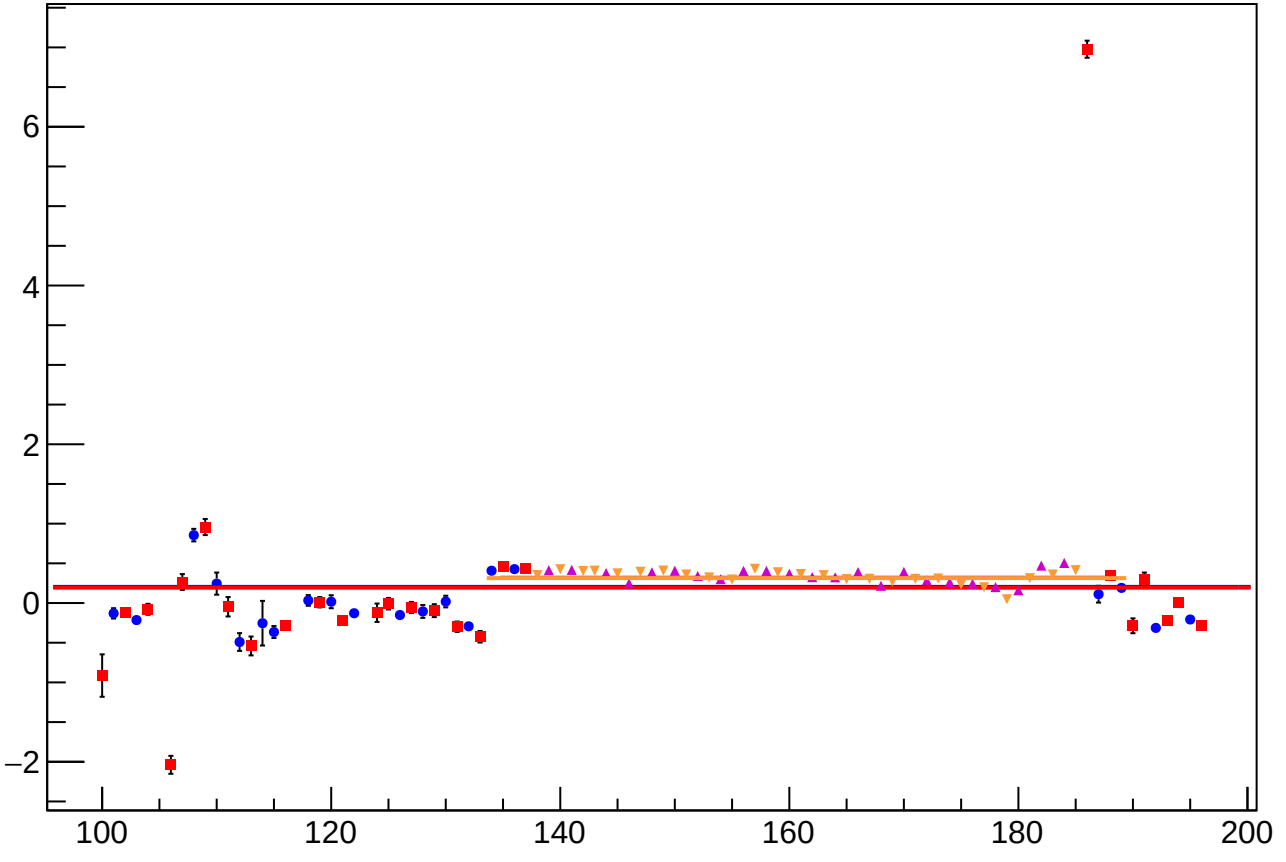
Right: -2.264+/-0.148 $\chi^2$/NDF: 9469.6/45

In: 8.516+/-0.046 $\chi^2$/NDF:12660.0/42

Out: 8.249+/-0.045 $\chi^2$/NDF:14901.5/50

All: 8.380+/-0.032 $\chi^2$/NDF: 27578.6/93

reg_asym_sam_1526_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.203+/-0.011 $\chi^2$/NDF: 823.4/19

Left Out: 0.314+/-0.002 $\chi^2$/NDF:1602.1/24

Right Out: 0.193+/-0.011 $\chi^2$/NDF: 5198.1/25

Left In: 0.319+/-0.002 $\chi^2$/NDF:1787.8/22

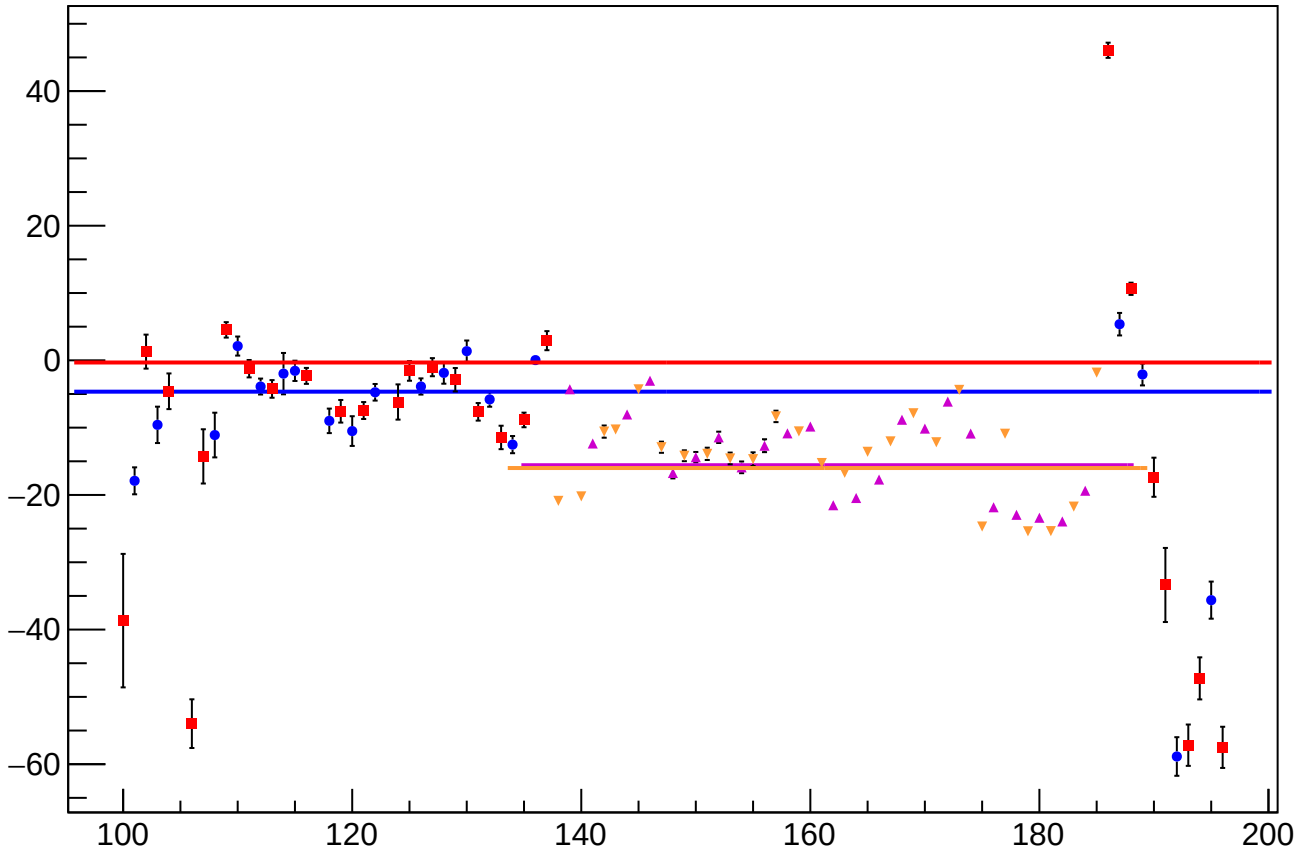
Left: 0.316+/-0.001 $\chi^2$/NDF: 3392.4/47

Right: 0.199+/-0.008 $\chi^2$/NDF: 6021.9/45

In: 0.314+/-0.002 $\chi^2$/NDF:2724.3/42

Out: 0.310+/-0.002 $\chi^2$/NDF:6907.2/50

All: 0.312+/-0.001 $\chi^2$/NDF: 9633.6/93




Right In: -4.656+/-0.327 $\chi^2$/NDF: 715.0/19

Left Out: -16.000+/-0.099 $\chi^2$/NDF:5962.8/24

Right Out: -0.322+/-0.311 $\chi^2$/NDF: 3300.7/25

Left In: -15.582+/-0.102 $\chi^2$/NDF:4759.9/22

Left: -15.797+/-0.071 $\chi^2$/NDF: 10731.3/47

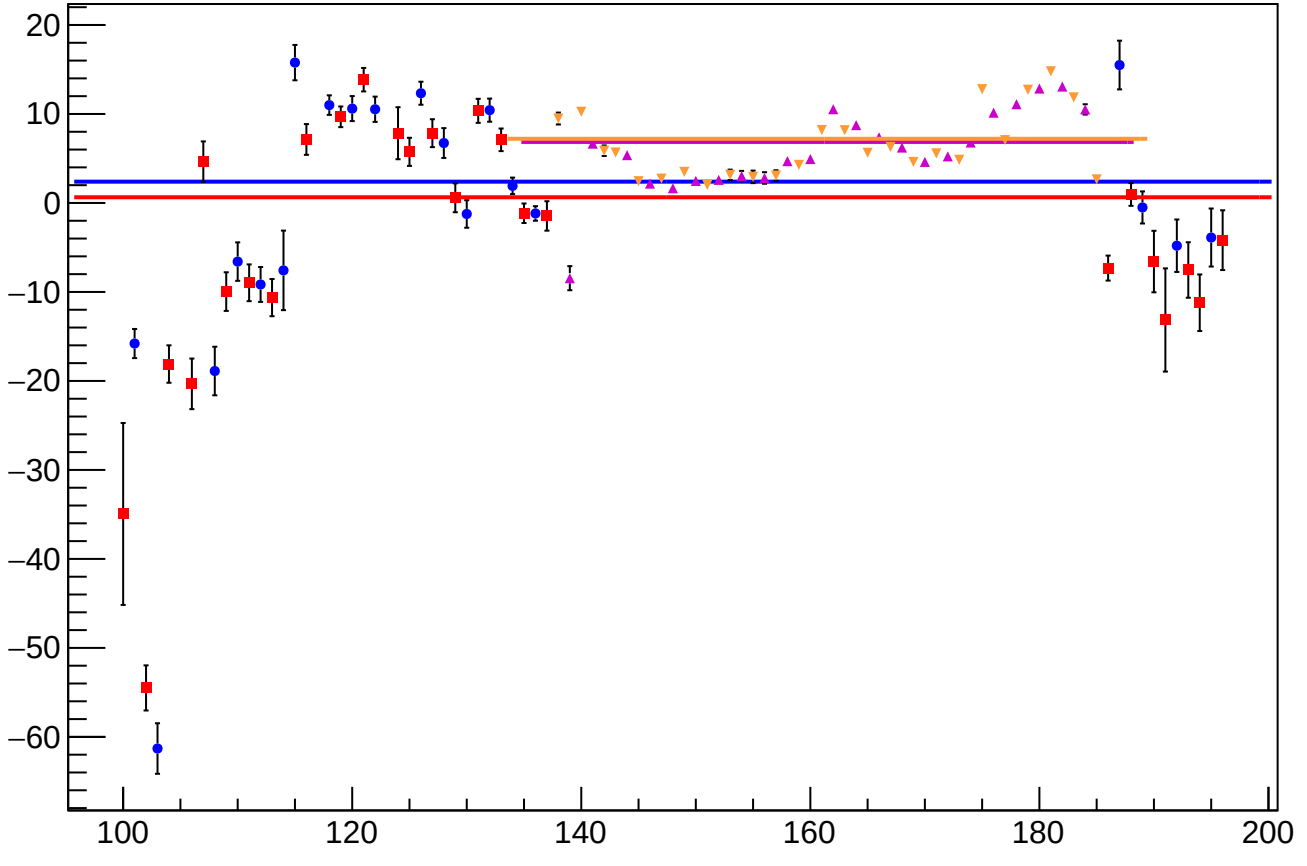
Right: -2.381+/-0.226 $\chi^2$/NDF: 4107.8/45

In: -14.615+/-0.097 $\chi^2$/NDF:6491.2/42

Out: -14.550+/-0.095 $\chi^2$/NDF:11565.5/50

All: -14.582+/-0.068 $\chi^2$/NDF: 18056.9/93

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.394+/-0.343 $\chi^2$/NDF: 1081.9/19

Left Out: 7.212+/-0.080 $\chi^2$/NDF:2455.9/24

Right Out: 0.640+/-0.348 $\chi^2$/NDF: 1056.1/25

Left In: 6.856+/-0.081 $\chi^2$/NDF:2156.4/22

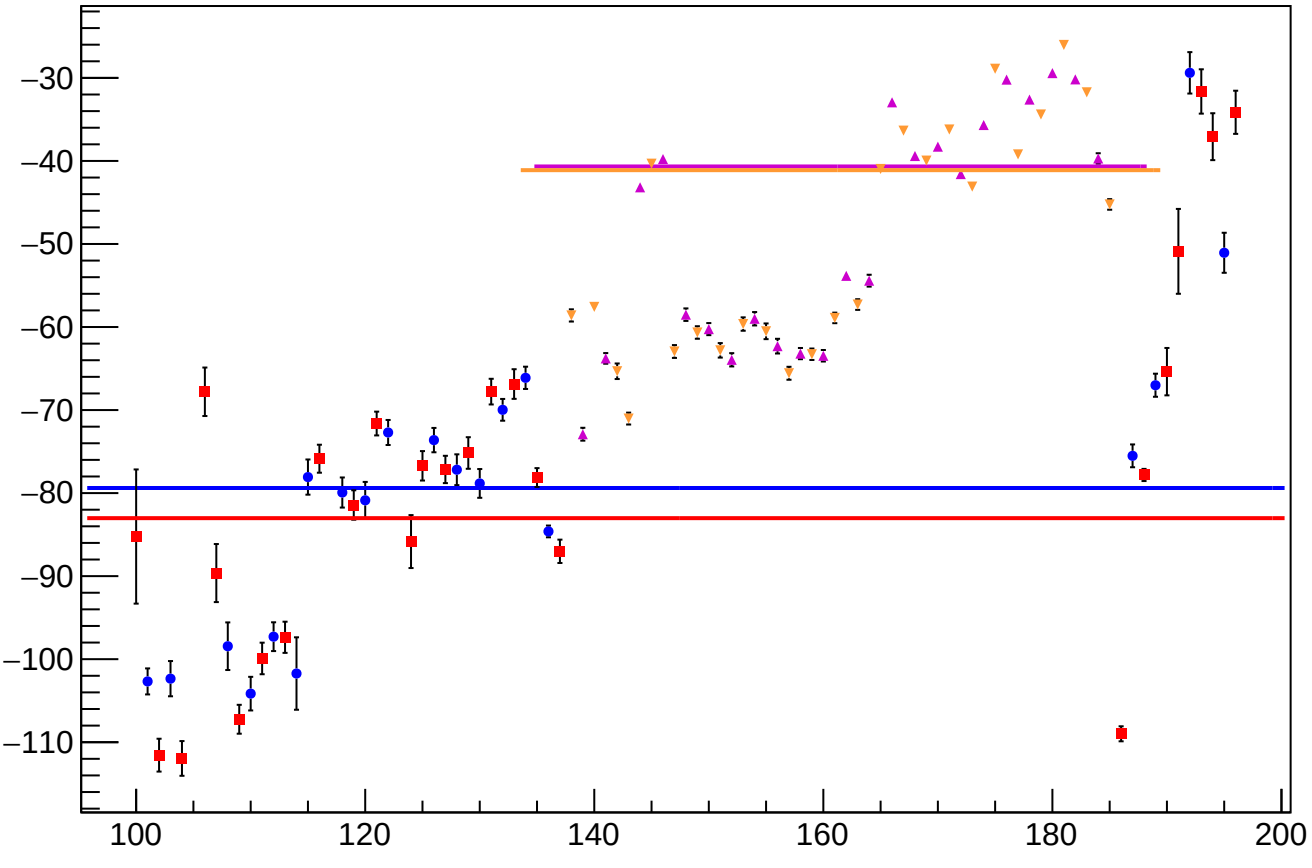
Left: 7.036+/-0.057 $\chi^2$/NDF: 4622.1/47

Right: 1.531+/-0.244 $\chi^2$/NDF: 2150.9/45

In: 6.620+/-0.079 $\chi^2$/NDF:3398.7/42

Out: 6.882+/-0.078 $\chi^2$/NDF:3849.8/50

All: 6.752+/-0.055 $\chi^2$/NDF: 7254.1/93




Right In: -79.386+/-0.350 $\chi^2$/NDF: 1533.5/19

Left Out: -41.111+/-0.100 $\chi^2$/NDF:16000.8/24

Right Out: -83.018+/-0.325 $\chi^2$/NDF: 3034.2/25

Left In: -40.665+/-0.102 $\chi^2$/NDF:13541.3/22

Left: -40.893+/-0.071 $\chi^2$/NDF: 29551.8/47

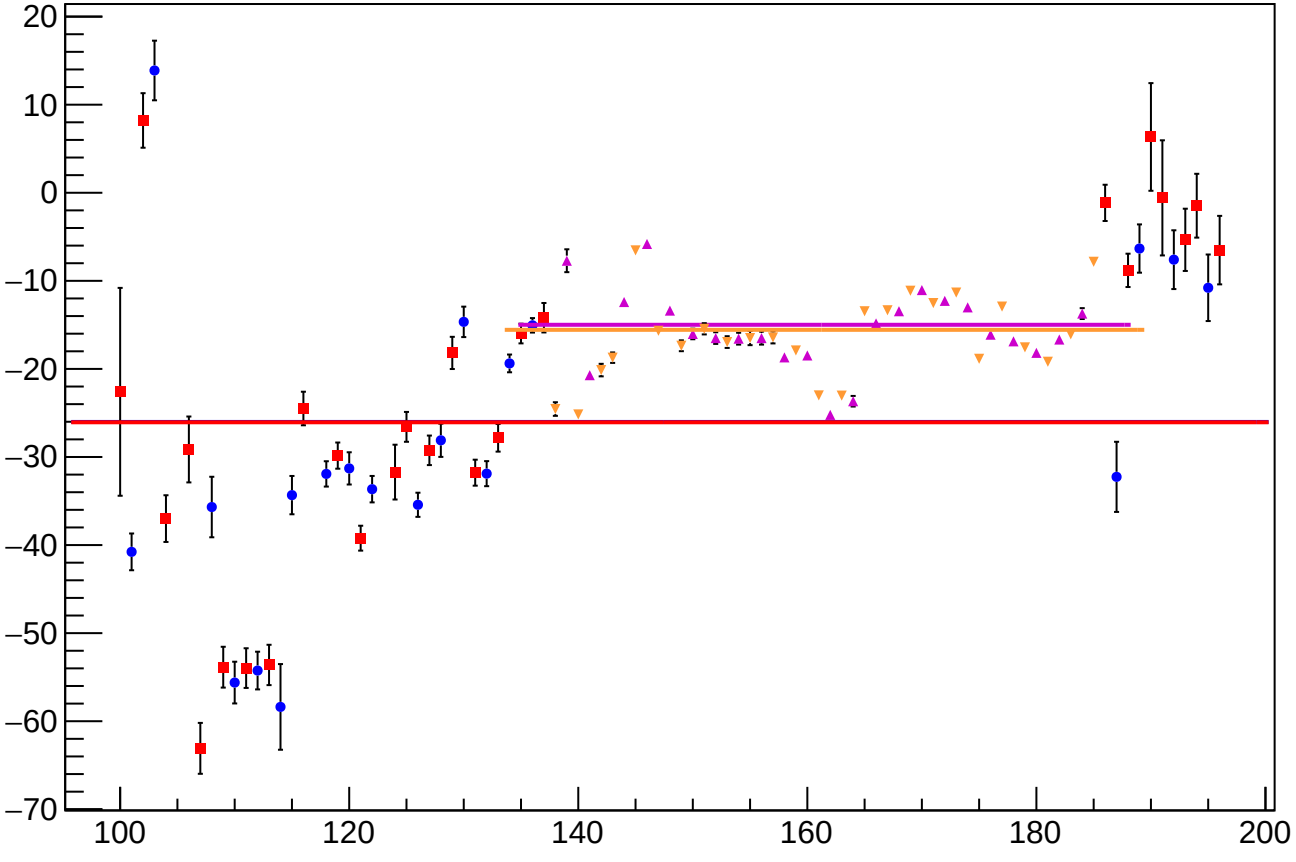
Right: -81.340+/-0.238 $\chi^2$/NDF: 4625.5/45

In: -43.704+/-0.098 $\chi^2$/NDF:26335.5/42

Out: -44.744+/-0.096 $\chi^2$/NDF:34259.3/50

All: -44.238+/-0.068 $\chi^2$/NDF: 60652.4/93

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -26.021+/-0.385 $\chi^2$/NDF: 1068.1/19

Left Out: -15.562+/-0.089 $\chi^2$/NDF:2549.5/24

Right Out: -26.059+/-0.403 $\chi^2$/NDF: 1392.9/25

Left In: -14.990+/-0.090 $\chi^2$/NDF:2150.9/22

Left: -15.281+/-0.063 $\chi^2$/NDF: 4720.8/47

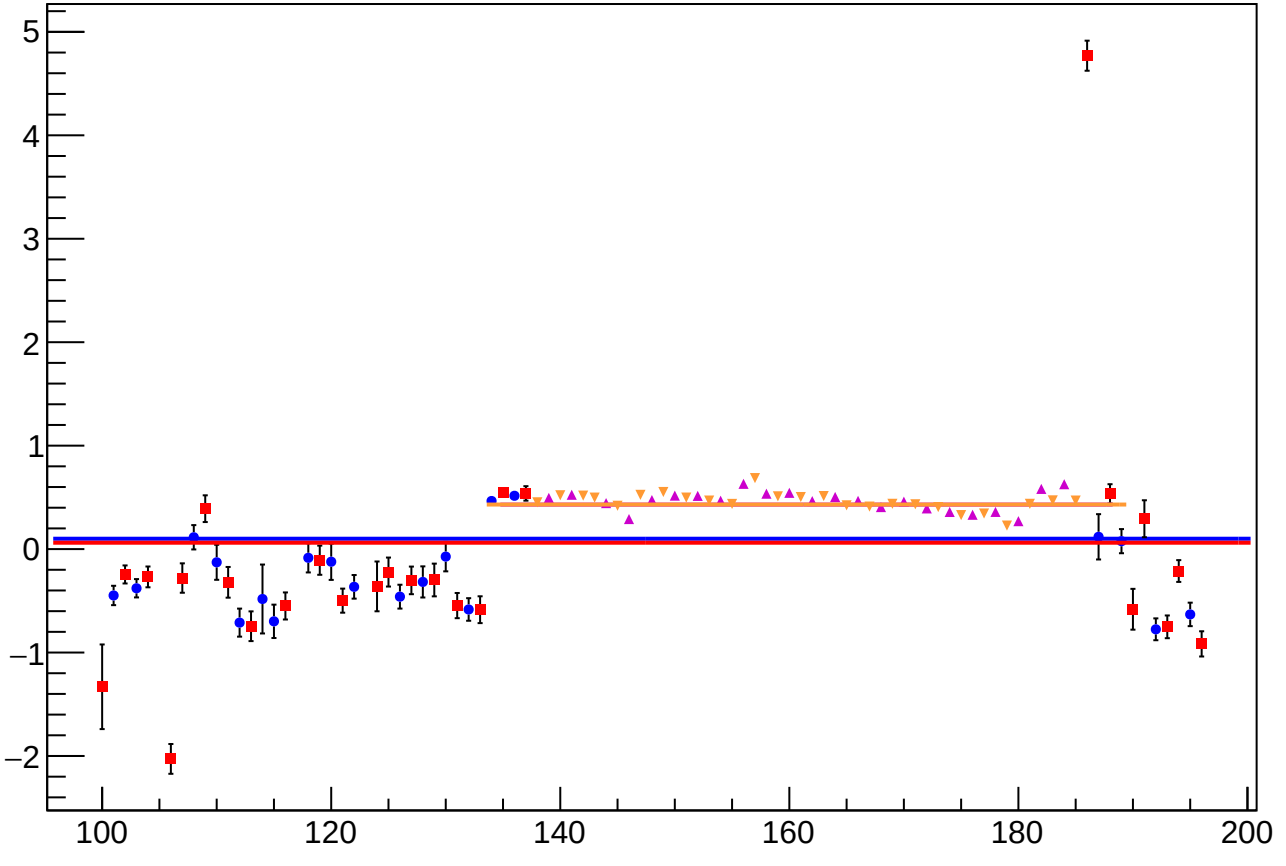
Right: -26.039+/-0.278 $\chi^2$/NDF: 2461.0/45

In: -15.565+/-0.088 $\chi^2$/NDF:3997.2/42

Out: -16.050+/-0.087 $\chi^2$/NDF:4590.5/50

All: -15.810+/-0.062 $\chi^2$/NDF: 8603.1/93

reg_asym_sam_3726_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.100+/-0.020 $\chi^2$/NDF: 541.5/19

Left Out: 0.431+/-0.004 $\chi^2$/NDF:418.4/24

Right Out: 0.062+/-0.022 $\chi^2$/NDF: 1794.3/25

Left In: 0.430+/-0.004 $\chi^2$/NDF:583.6/22

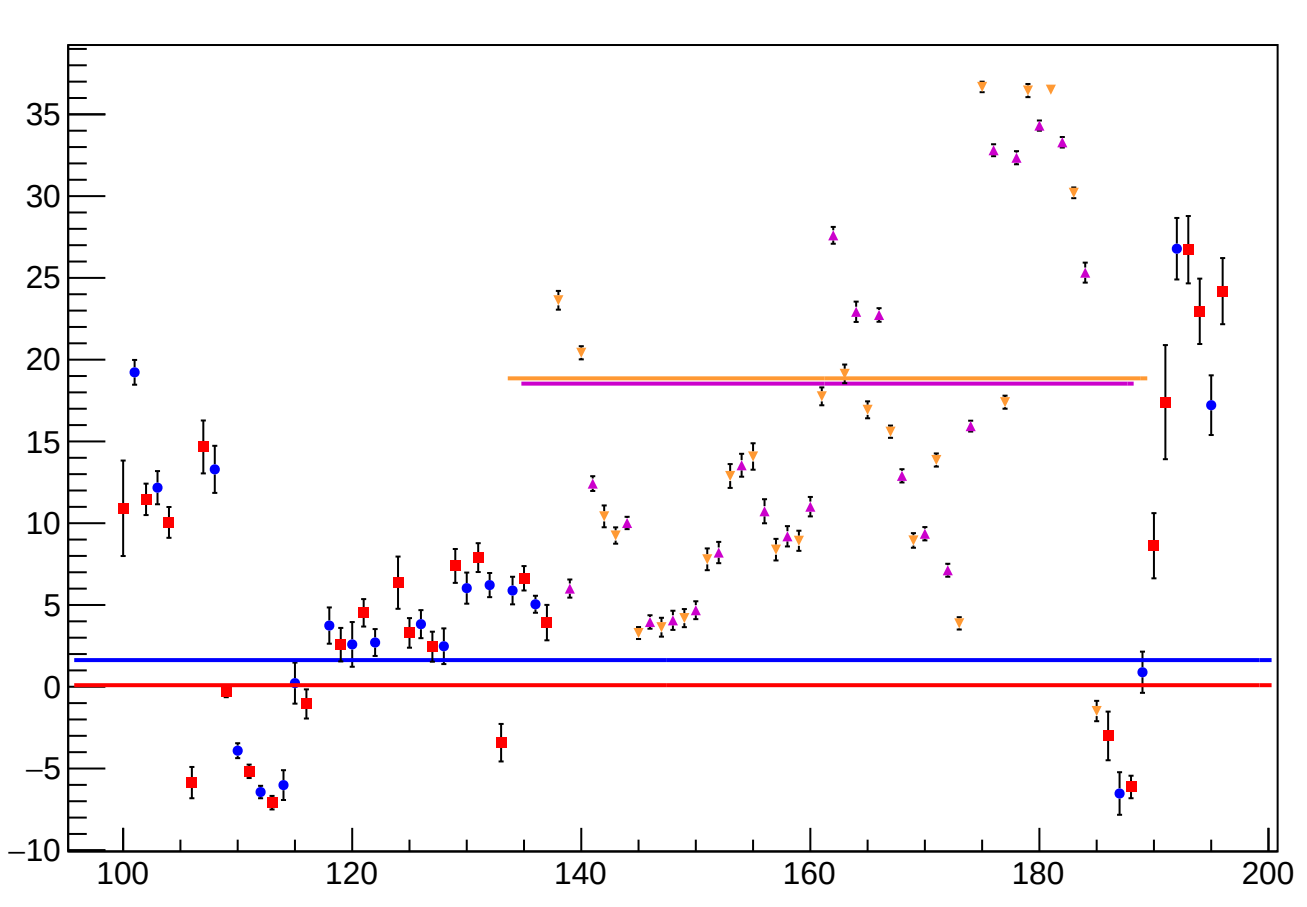
Left: 0.430+/-0.003 $\chi^2$/NDF: 1002.0/47

Right: 0.082+/-0.015 $\chi^2$/NDF: 2337.5/45

In: 0.417+/-0.004 $\chi^2$/NDF:1380.8/42

Out: 0.419+/-0.004 $\chi^2$/NDF:2494.4/50

All: 0.418+/-0.003 $\chi^2$/NDF: 3875.2/93




Right In: 1.630+/-0.178 $\chi^2$/NDF: 1814.9/19

Left Out: 18.858+/-0.090 $\chi^2$/NDF:18374.1/24

Right Out: 0.096+/-0.159 $\chi^2$/NDF: 1717.6/25

Left In: 18.535+/-0.093 $\chi^2$/NDF:14066.0/22

Left: 18.701+/-0.065 $\chi^2$/NDF: 32446.3/47

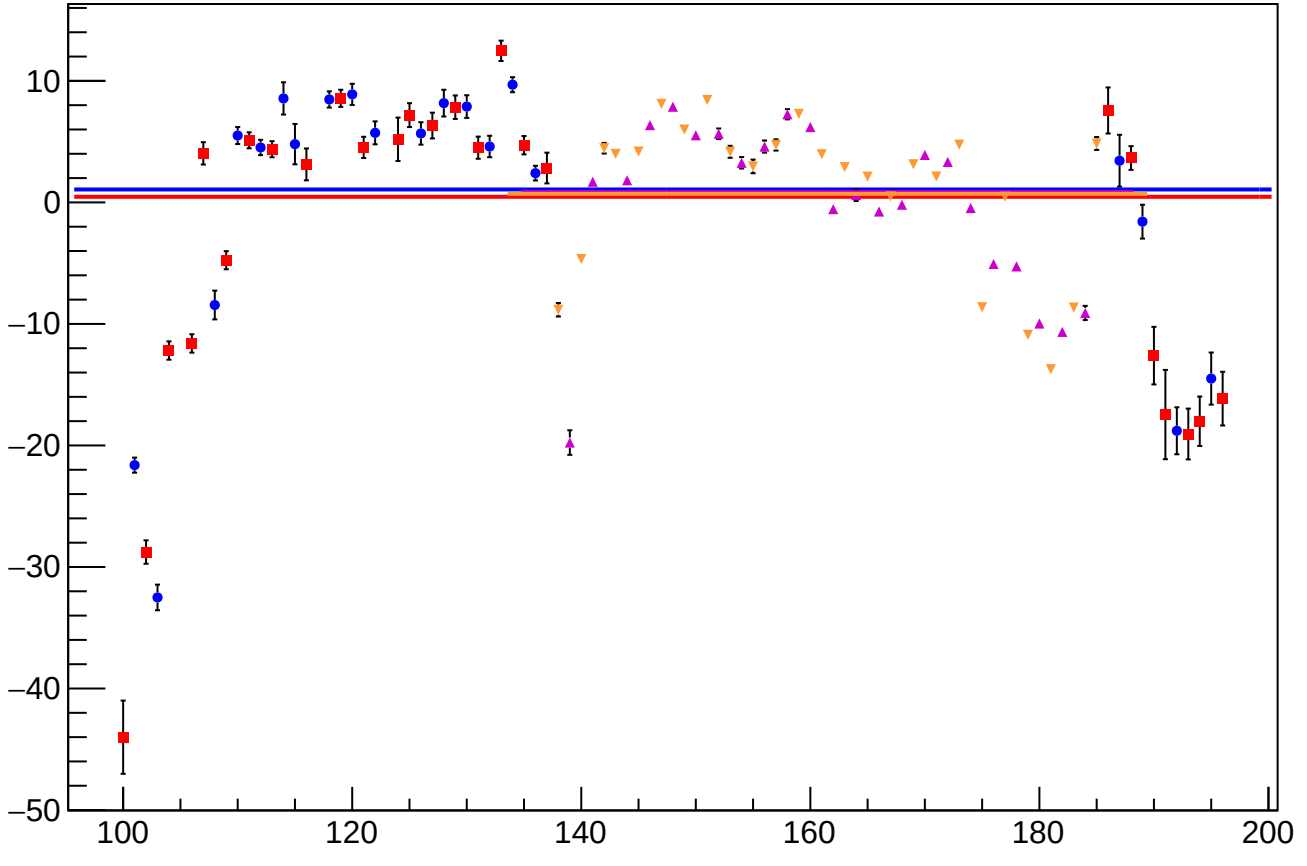
Right: 0.780+/-0.119 $\chi^2$/NDF: 3573.8/45

In: 14.889+/-0.083 $\chi^2$/NDF:22970.8/42

Out: 14.295+/-0.079 $\chi^2$/NDF:30565.6/50

All: 14.578+/-0.057 $\chi^2$/NDF: 53563.6/93

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 1.064+/-0.198 $\chi^2$/NDF: 3247.0/19

Left Out: 0.702+/-0.071 $\chi^2$/NDF:8237.8/24

Right Out: 0.461+/-0.193 $\chi^2$/NDF: 2686.8/25

Left In: 0.847+/-0.072 $\chi^2$/NDF:6045.4/22

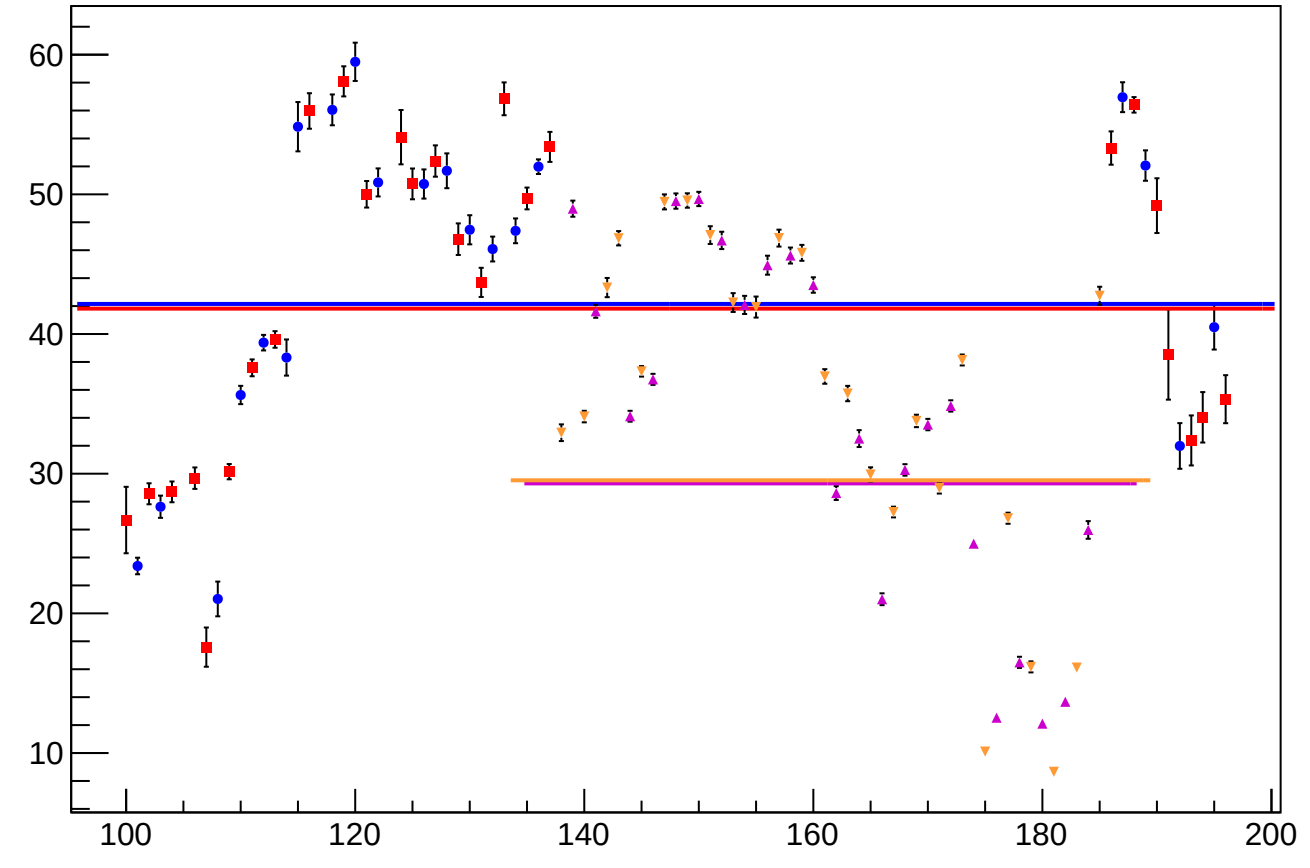
Left: 0.773+/-0.051 $\chi^2$/NDF: 14285.2/47

Right: 0.755+/-0.138 $\chi^2$/NDF: 5938.5/45

In: 0.872+/-0.068 $\chi^2$/NDF:9293.4/42

Out: 0.674+/-0.066 $\chi^2$/NDF:10926.0/50

All: 0.770+/-0.047 $\chi^2$/NDF: 20223.7/93




Right In: 42.154+/-0.200 $\chi^2$/NDF: 3072.5/19

Left Out: 29.526+/-0.091 $\chi^2$/NDF:21083.7/24

Right Out: 41.819+/-0.184 $\chi^2$/NDF: 3612.7/25

Left In: 29.306+/-0.093 $\chi^2$/NDF:17870.3/22

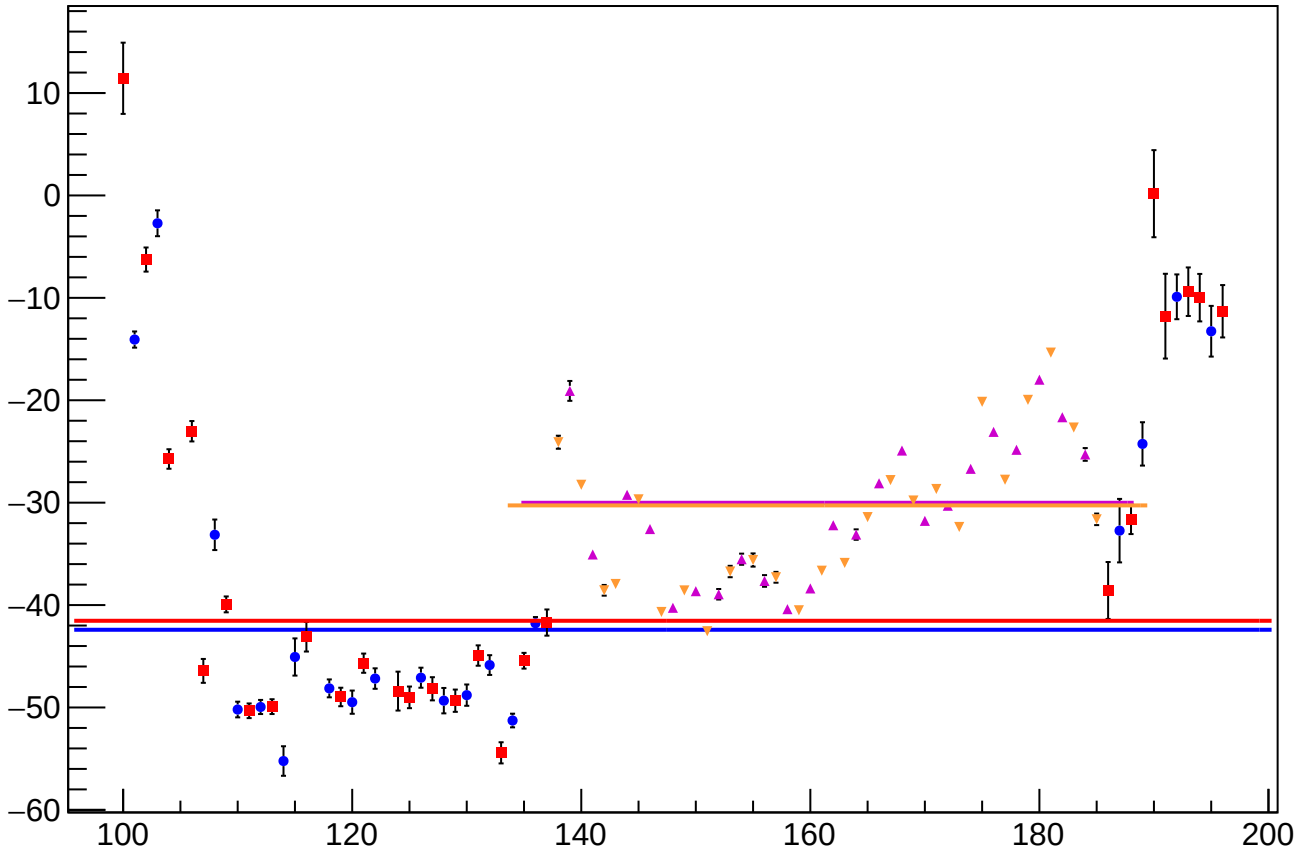
Left: 29.419+/-0.065 $\chi^2$/NDF: 38956.9/47

Right: 41.972+/-0.135 $\chi^2$/NDF: 6686.7/45

In: 31.595+/-0.084 $\chi^2$/NDF:24336.7/42

Out: 31.925+/-0.081 $\chi^2$/NDF:28290.4/50

All: 31.766+/-0.059 $\chi^2$/NDF: 52635.1/93




Right In: -42.412+/-0.225 $\chi^2$/NDF: 3442.5/19

Left Out: -30.268+/-0.079 $\chi^2$/NDF:8500.0/24

Right Out: -41.534+/-0.222 $\chi^2$/NDF: 3193.1/25

Left In: -30.012+/-0.081 $\chi^2$/NDF:6083.1/22

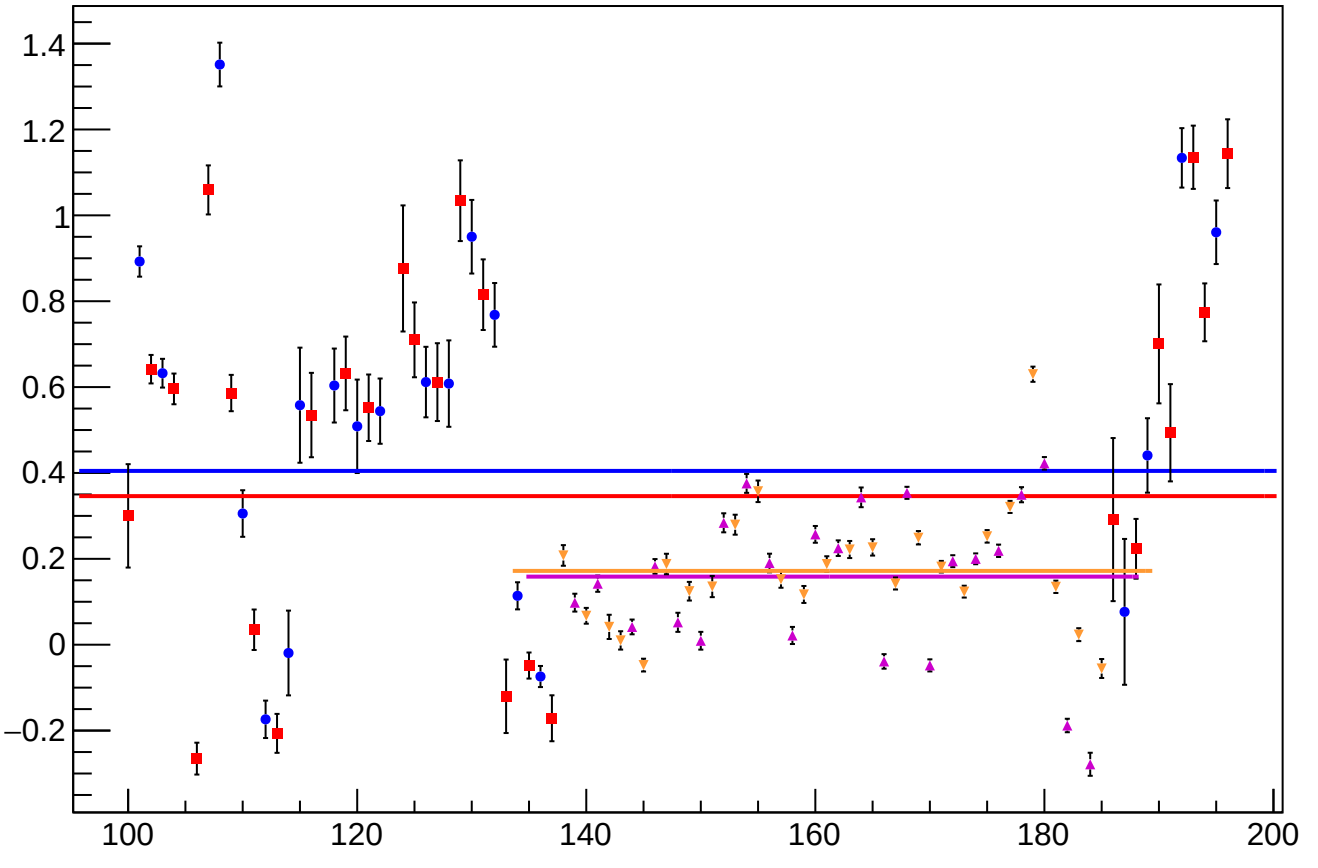
Left: -30.143+/-0.057 $\chi^2$/NDF: 14588.2/47

Right: -41.967+/-0.158 $\chi^2$/NDF: 6643.4/45

In: -31.442+/-0.076 $\chi^2$/NDF:12207.3/42

Out: -31.542+/-0.075 $\chi^2$/NDF:13979.1/50

All: -31.493+/-0.053 $\chi^2$/NDF: 26187.2/93




Right In: 0.405+/-0.012 $\chi^2$/NDF: 1501.2/19

Left Out: 0.172+/-0.004 $\chi^2$/NDF:1501.3/24

Right Out: 0.346+/-0.011 $\chi^2$/NDF: 1484.7/25

Left In: 0.159+/-0.004 $\chi^2$/NDF:2187.4/22

Left: 0.165+/-0.003 $\chi^2$/NDF: 3695.7/47

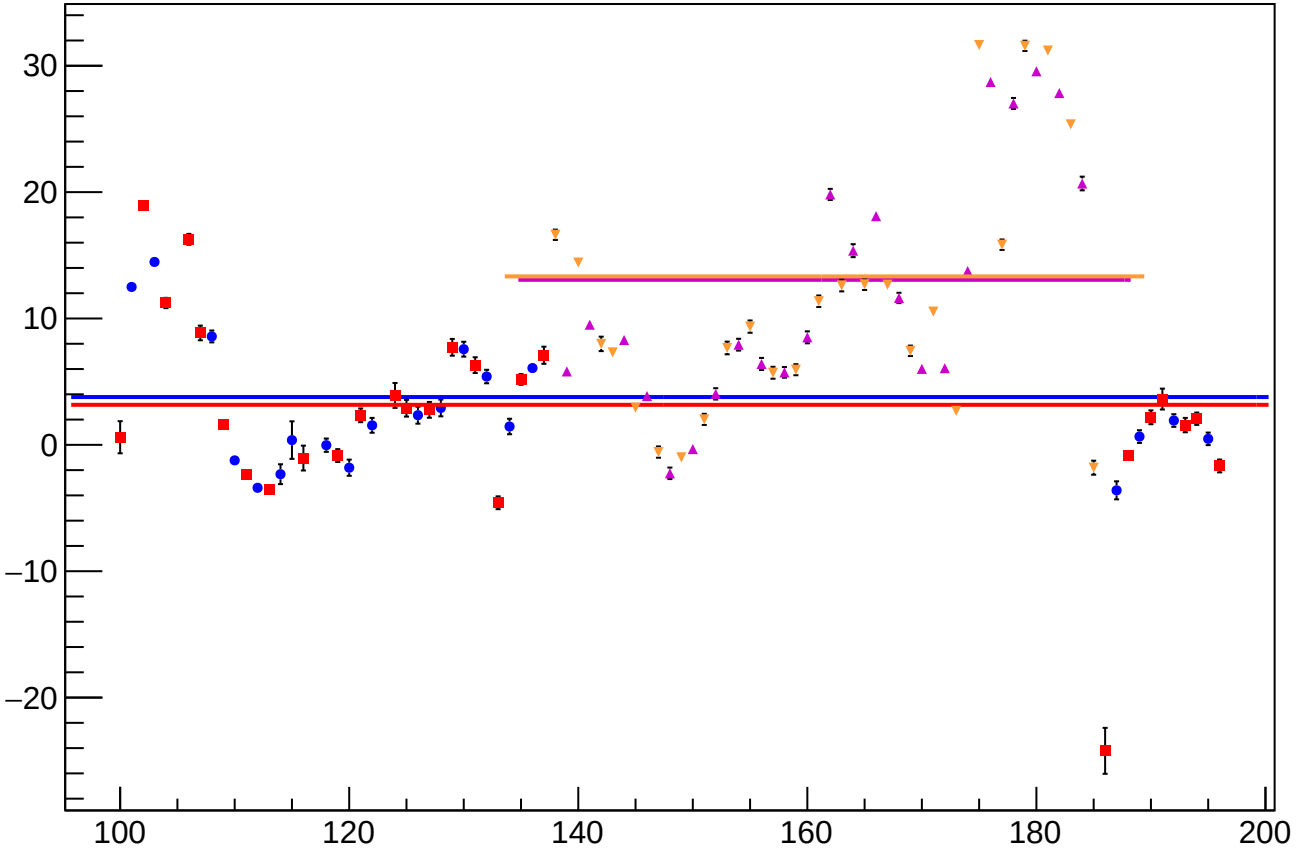
Right: 0.374+/-0.008 $\chi^2$/NDF: 2998.8/45

In: 0.180+/-0.003 $\chi^2$/NDF:4091.1/42

Out: 0.187+/-0.003 $\chi^2$/NDF:3200.1/50

All: 0.184+/-0.002 $\chi^2$/NDF: 7293.4/93

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 3.783+/-0.107 $\chi^2$/NDF: 2856.8/19

Left Out: 13.331+/-0.077 $\chi^2$/NDF:19432.7/24

Right Out: 3.169+/-0.093 $\chi^2$/NDF: 4898.0/25

Left In: 13.061+/-0.079 $\chi^2$/NDF:15559.8/22

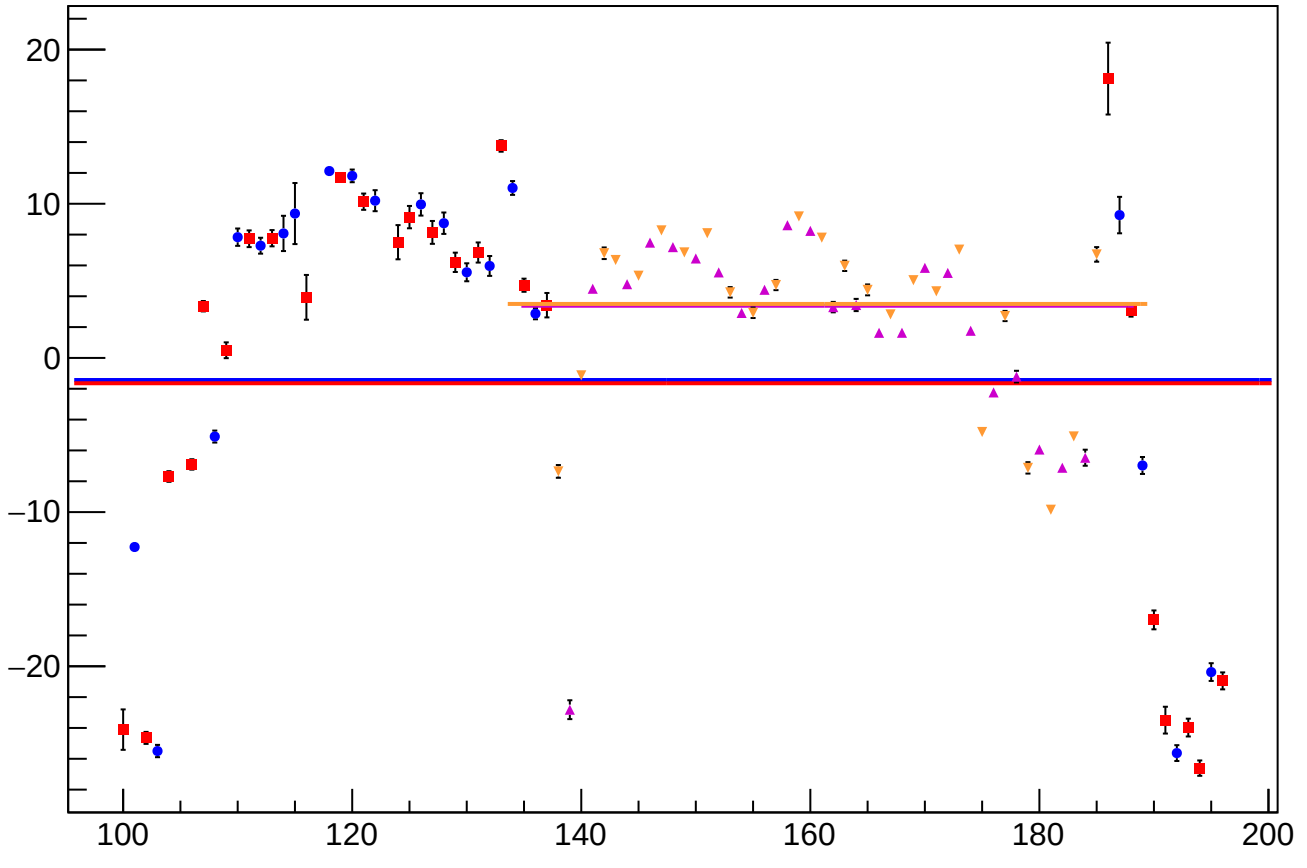
Left: 13.200+/-0.055 $\chi^2$/NDF: 34998.5/47

Right: 3.433+/-0.070 $\chi^2$/NDF: 7773.6/45

In: 9.777+/-0.064 $\chi^2$/NDF:23258.8/42

Out: 9.221+/-0.059 $\chi^2$/NDF:31417.4/50

All: 9.479+/-0.043 $\chi^2$/NDF: 54717.1/93




Right In: -1.433+/-0.108 $\chi^2$/NDF: 14287.7/19

Left Out: 3.502+/-0.059 $\chi^2$/NDF:7911.7/24

Right Out: -1.643+/-0.099 $\chi^2$/NDF: 16853.6/25

Left In: 3.385+/-0.061 $\chi^2$/NDF:6707.6/22

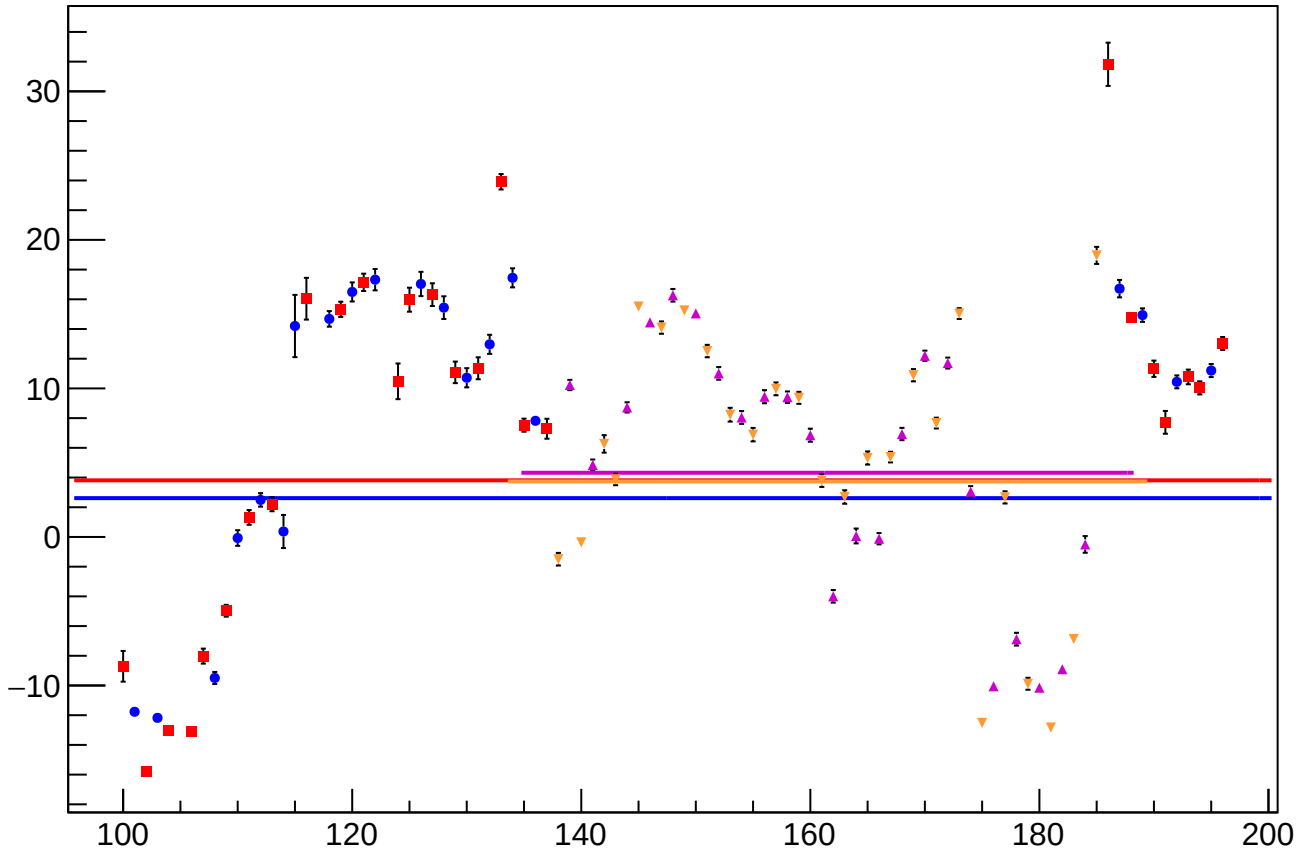
Left: 3.446+/-0.042 $\chi^2$/NDF: 14621.2/47

Right: -1.547+/-0.073 $\chi^2$/NDF: 31143.4/45

In: 2.225+/-0.053 $\chi^2$/NDF:22497.4/42

Out: 2.163+/-0.050 $\chi^2$/NDF:26773.9/50

All: 2.192+/-0.037 $\chi^2$/NDF: 49272.0/93




Right In: 2.613+/-0.106 $\chi^2$/NDF: 11782.7/19

Left Out: 3.738+/-0.076 $\chi^2$/NDF:15586.7/24

Right Out: 3.813+/-0.092 $\chi^2$/NDF: 18428.2/25

Left In: 4.322+/-0.079 $\chi^2$/NDF:12483.3/22

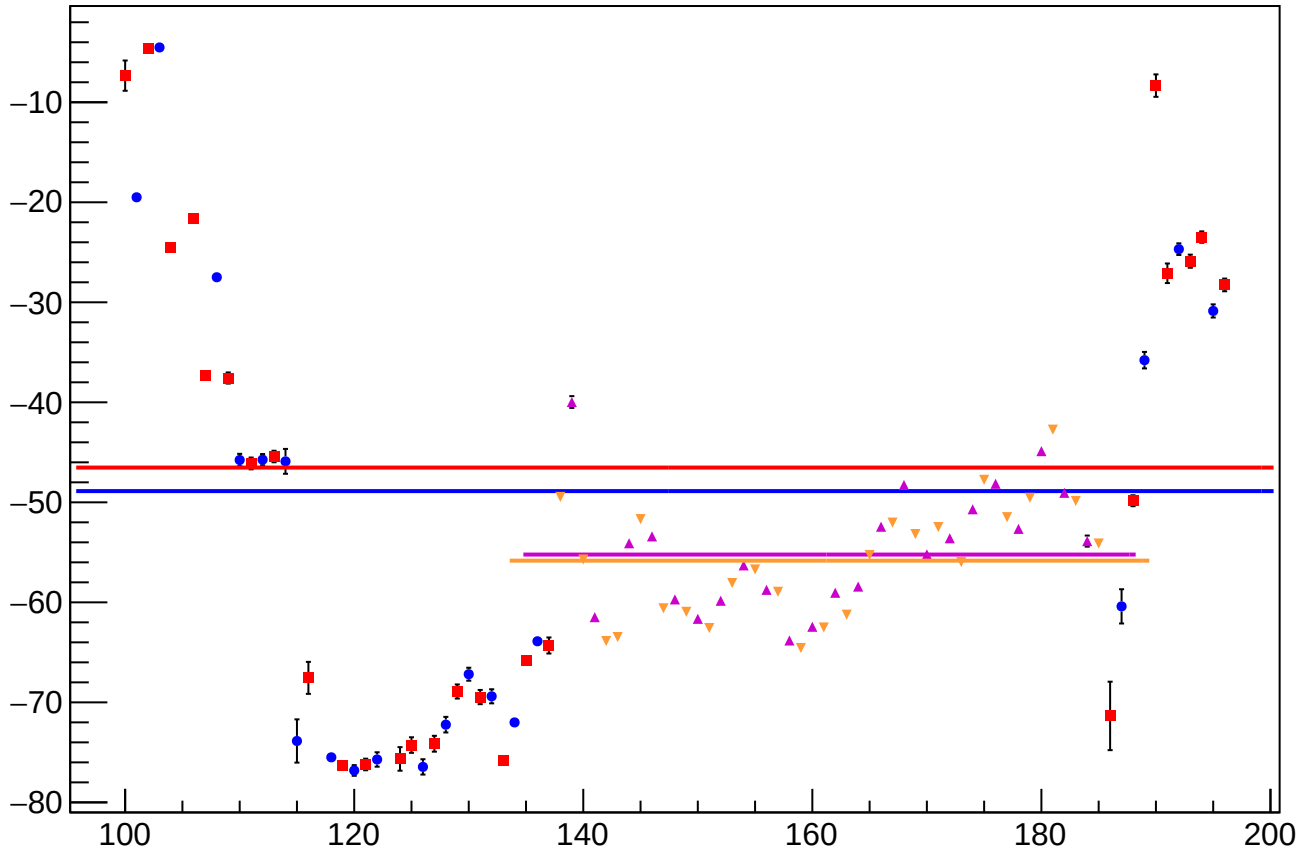
Left: 4.022+/-0.055 $\chi^2$/NDF: 28098.5/47

Right: 3.300+/-0.070 $\chi^2$/NDF: 30283.6/45

In: 3.719+/-0.063 $\chi^2$/NDF:24433.0/42

Out: 3.769+/-0.059 $\chi^2$/NDF:34015.3/50

All: 3.745+/-0.043 $\chi^2$/NDF: 58448.6/93




Right In: -48.877+/-0.128 $\chi^2$/NDF: 36849.3/19

Left Out: -55.832+/-0.066 $\chi^2$/NDF:7592.5/24

Right Out: -46.524+/-0.118 $\chi^2$/NDF: 39706.9/25

Left In: -55.222+/-0.069 $\chi^2$/NDF:6343.0/22

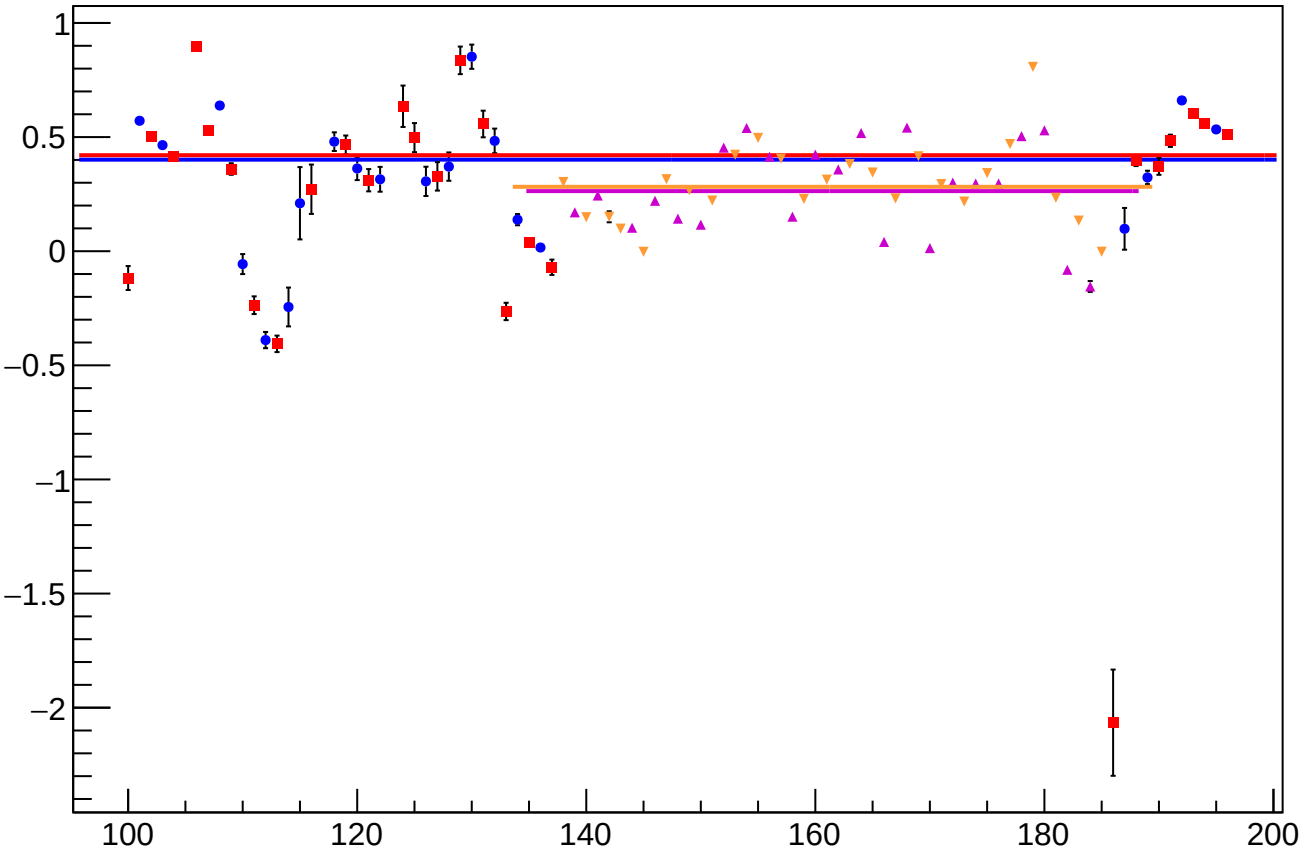
Left: -55.538+/-0.048 $\chi^2$/NDF: 13976.2/47

Right: -47.609+/-0.087 $\chi^2$/NDF: 76739.2/45

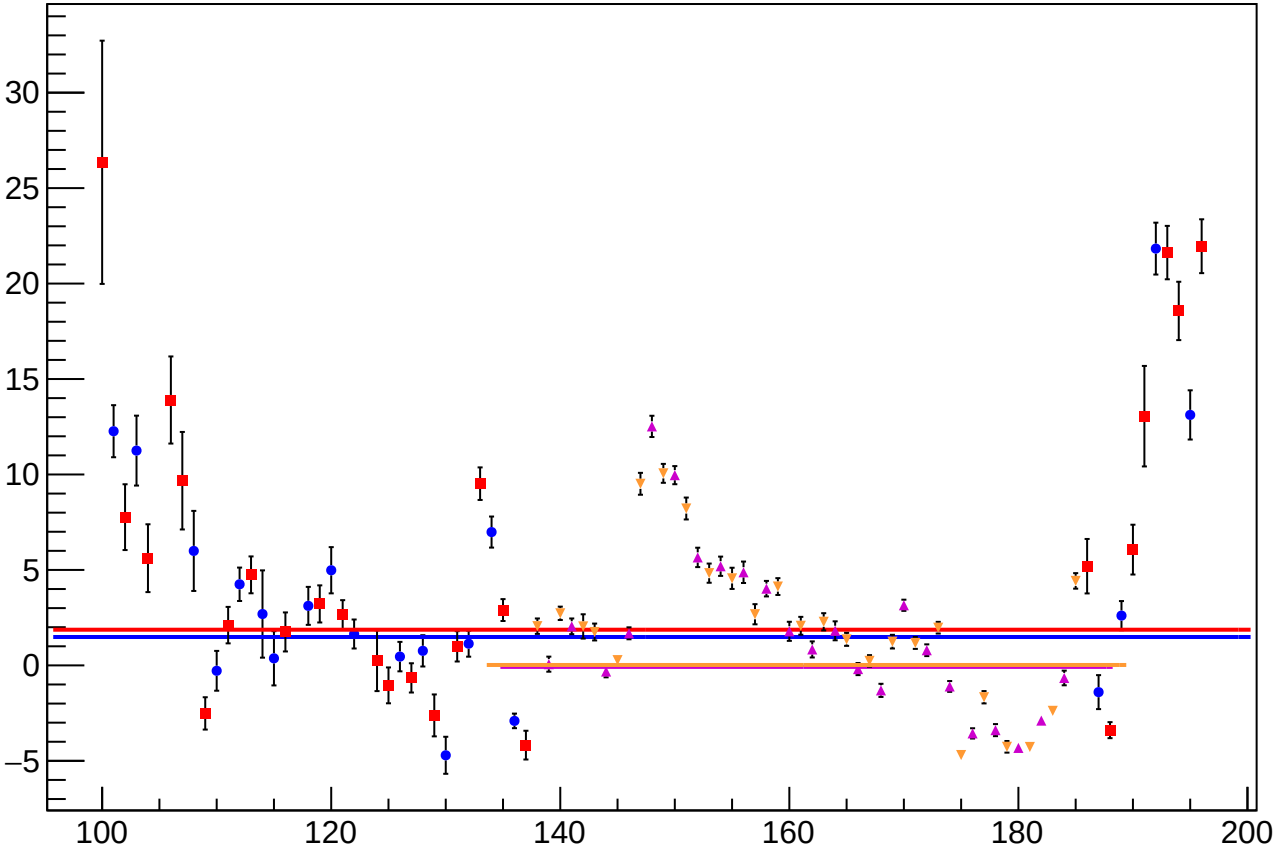
In: -53.798+/-0.061 $\chi^2$/NDF:45106.9/42

Out: -53.599+/-0.058 $\chi^2$/NDF:52022.4/50

All: -53.694+/-0.042 $\chi^2$/NDF: 97135.0/93


reg_asym_sam_37_48_dd_diff_bpm12X_slope vs Slug, Sign Corrected
1
0.5
0
−0.5
−1
−1.5
−2
100
120
140
160
180
200
Right In: 0.401+/-0.006 χ²/NDF: 2163.8/19
Left Out: 0.282+/-0.003 χ²/NDF:2712.4/24
Right Out: 0.421+/-0.005 χ²/NDF: 3136.1/25
Left In: 0.263+/-0.003 χ²/NDF:3835.8/22
Left: 0.273+/-0.002 χ²/NDF: 6568.0/47
Right: 0.412+/-0.004 χ²/NDF: 5306.5/45
In: 0.294+/-0.003 χ²/NDF:6464.5/42
Out: 0.318+/-0.003 χ²/NDF:6406.6/50
All: 0.307+/-0.002 χ²/NDF: 12911.9/93

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 1.487+/-0.195 $\chi^2$/NDF: 660.3/19

Left Out: 0.022+/-0.069 $\chi^2$/NDF:2759.3/24

Right Out: 1.869+/-0.187 $\chi^2$/NDF: 1007.0/25

Left In: -0.080+/-0.071 $\chi^2$/NDF:2464.5/22

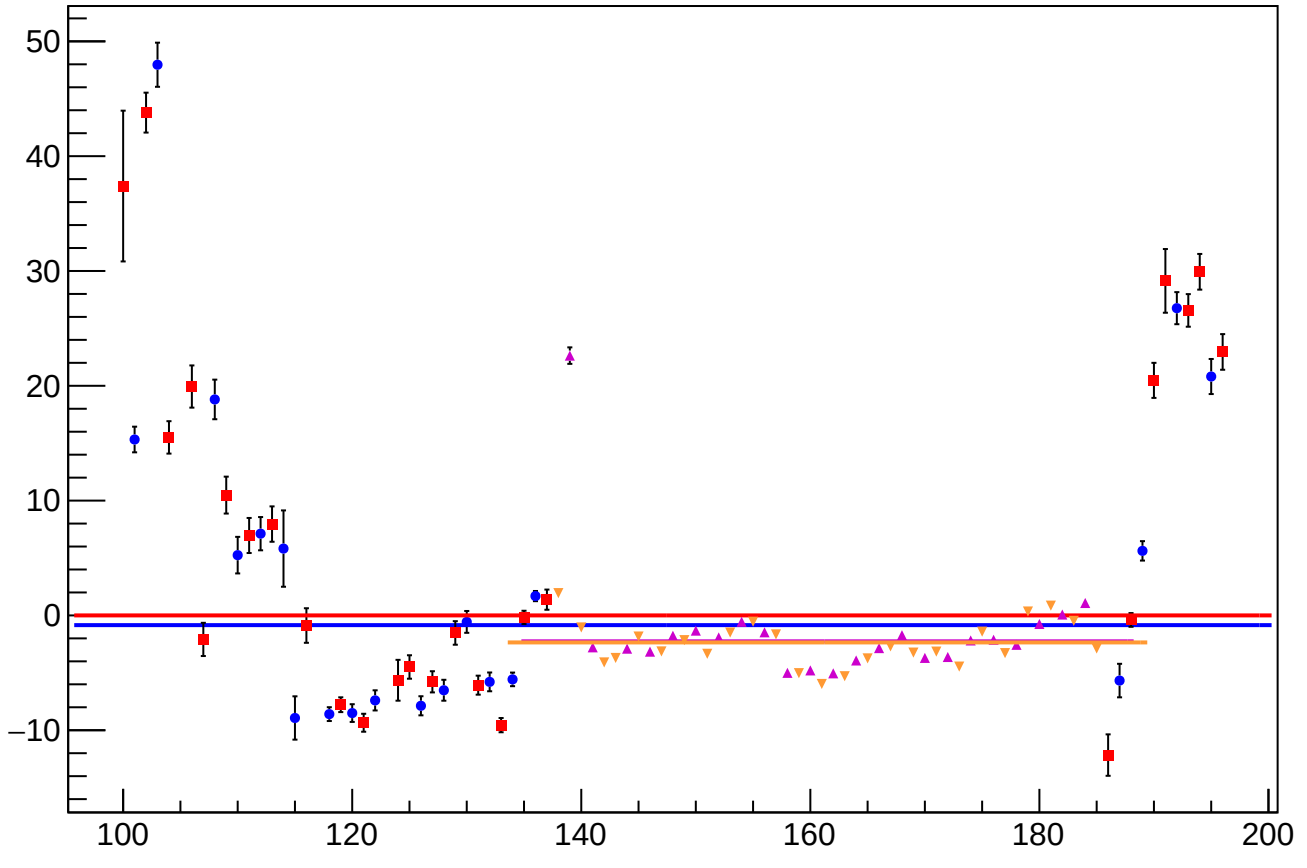
Left: -0.027+/-0.049 $\chi^2$/NDF: 5224.9/47

Right: 1.686+/-0.135 $\chi^2$/NDF: 1669.4/45

In: 0.102+/-0.066 $\chi^2$/NDF:3181.9/42

Out: 0.240+/-0.064 $\chi^2$/NDF:3852.1/50

All: 0.173+/-0.046 $\chi^2$/NDF: 7036.2/93




Right In: -0.846+/-0.203 $\chi^2$/NDF: 2275.5/19

Left Out: -2.352+/-0.055 $\chi^2$/NDF:1125.6/24

Right Out: 0.001+/-0.204 $\chi^2$/NDF: 2926.8/25

Left In: -2.257+/-0.056 $\chi^2$/NDF:1877.2/22

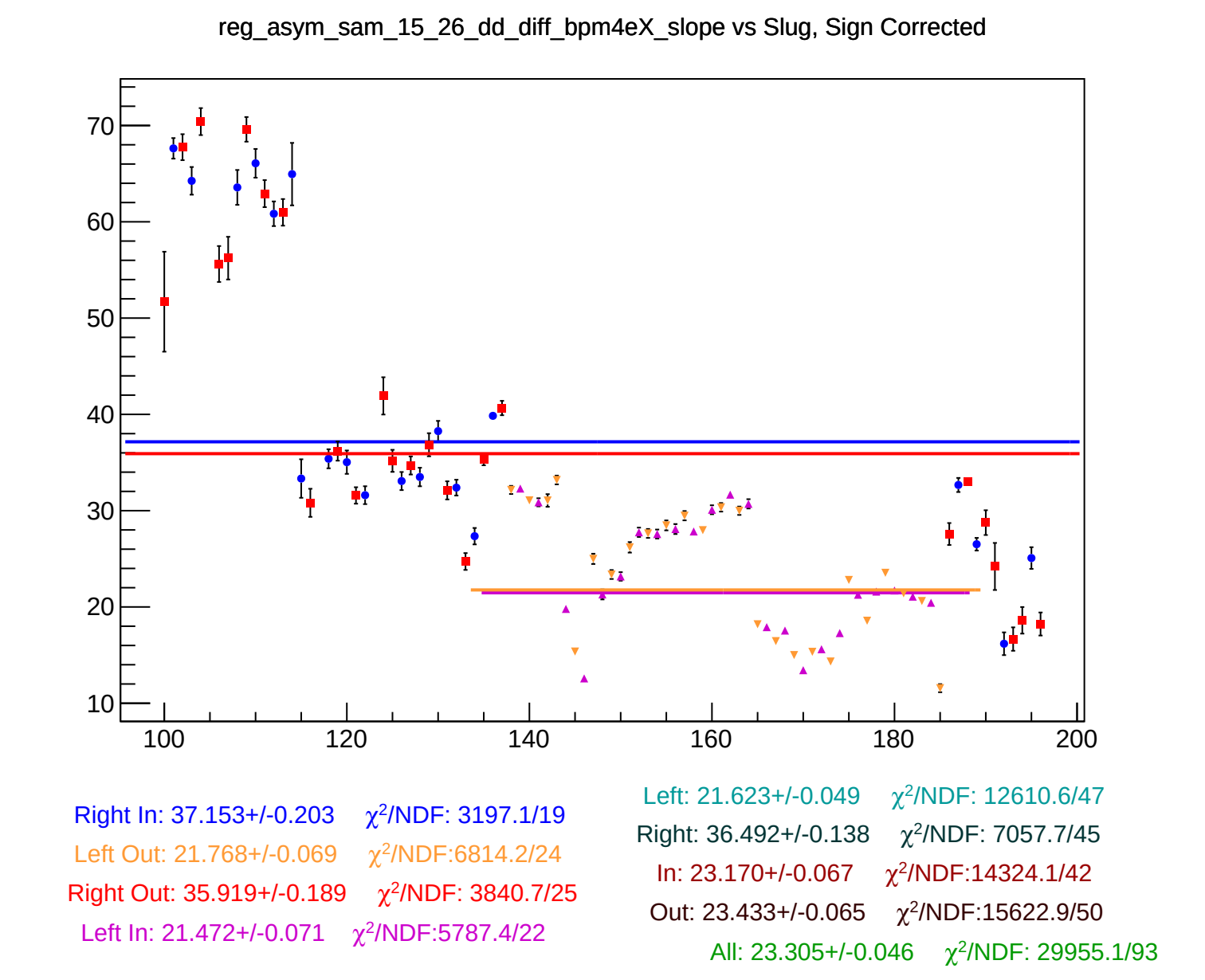
Left: -2.306+/-0.039 $\chi^2$/NDF: 3004.4/47

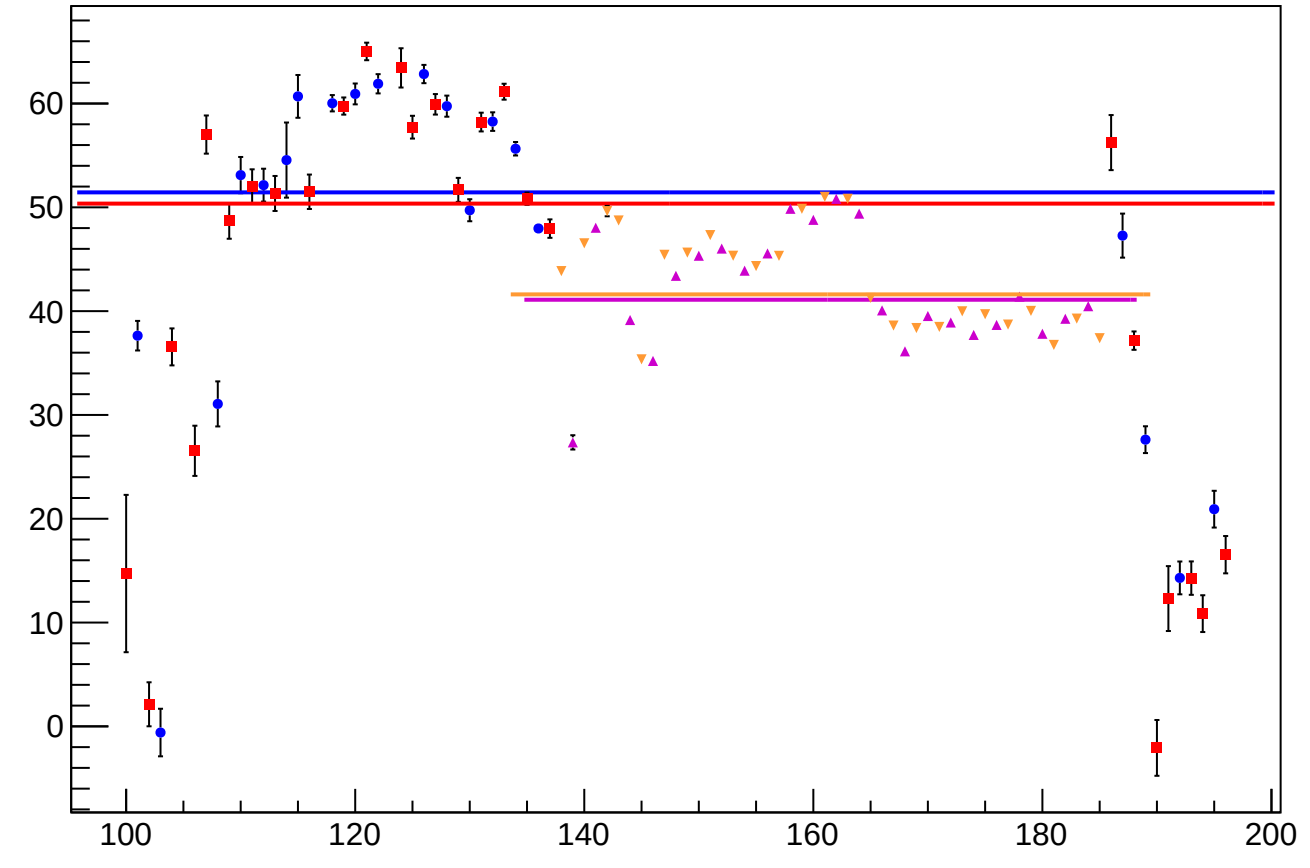
Right: -0.425+/-0.144 $\chi^2$/NDF: 5211.0/45

In: -2.155+/-0.054 $\chi^2$/NDF:4197.8/42

Out: -2.192+/-0.053 $\chi^2$/NDF:4176.8/50

All: -2.174+/-0.038 $\chi^2$/NDF: 8374.8/93


reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs Slug, Sign Corrected
70
60
50
40
30
20
10
100
120
140
160
180
200
Right In: 37.153+/-0.203 χ2/NDF: 3197.1/19
Left Out: 21.768+/-0.069 χ2/NDF:6814.2/24
Right Out: 35.919+/-0.189 χ2/NDF: 3840.7/25
Left In: 21.472+/-0.071 χ2/NDF:5787.4/22
Left: 21.623+/-0.049 χ2/NDF: 12610.6/47
Right: 36.492+/-0.138 χ2/NDF: 7057.7/45
In: 23.170+/-0.067 χ2/NDF:14324.1/42
Out: 23.433+/-0.065 χ2/NDF:15622.9/50
All: 23.305+/-0.046 χ2/NDF: 29955.1/93




Right In: 51.441+/-0.229 $\chi^2$/NDF: 2646.6/19

Left Out: 41.613+/-0.061 $\chi^2$/NDF:5776.0/24

Right Out: 50.358+/-0.236 $\chi^2$/NDF: 3721.1/25

Left In: 41.098+/-0.063 $\chi^2$/NDF:5478.0/22

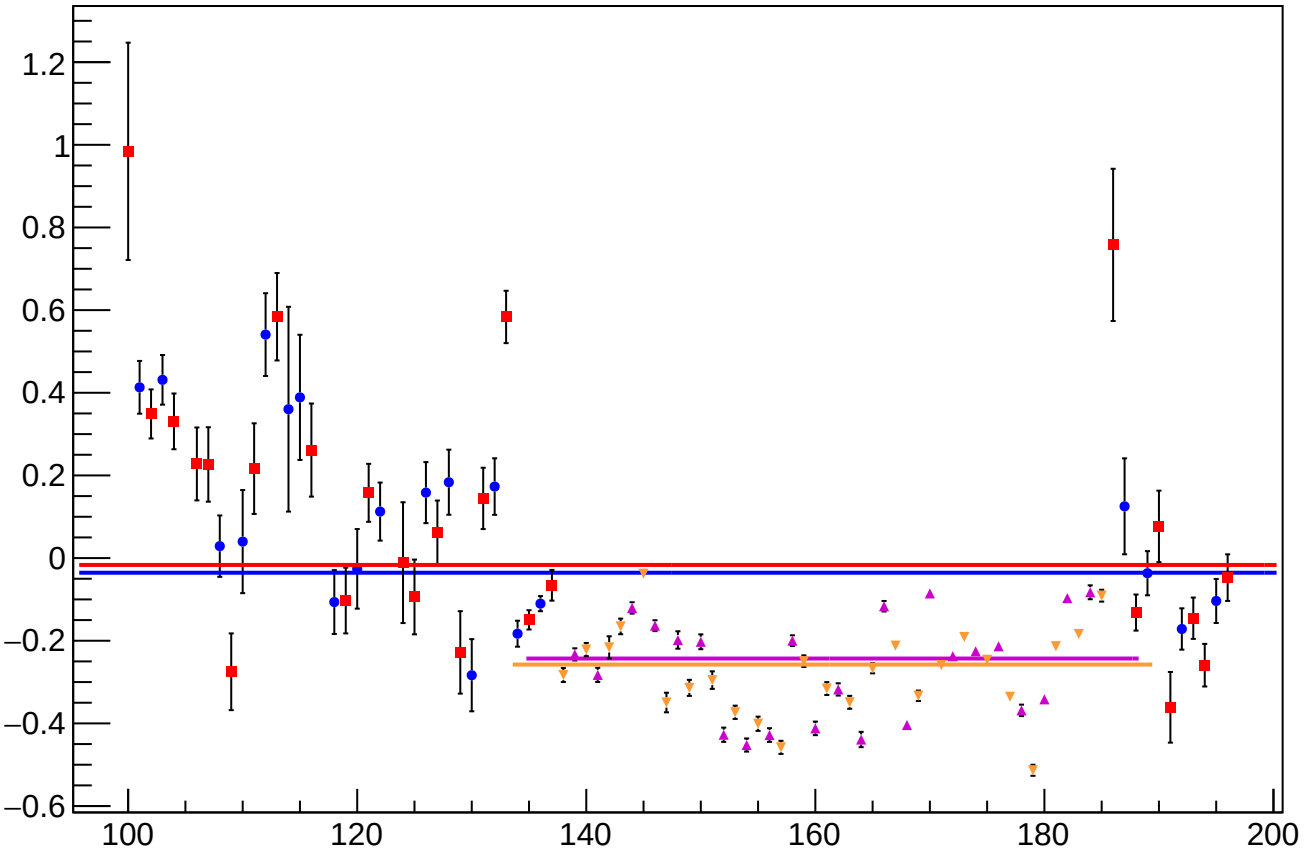
Left: 41.361+/-0.044 $\chi^2$/NDF: 11288.6/47

Right: 50.916+/-0.164 $\chi^2$/NDF: 6378.4/45

In: 41.817+/-0.060 $\chi^2$/NDF:10020.4/42

Out: 42.164+/-0.059 $\chi^2$/NDF:10781.0/50

All: 41.994+/-0.042 $\chi^2$/NDF: 20818.1/93




Right In: -0.035+/-0.012 $\chi^2$/NDF: 241.4/19

Left Out: -0.258+/-0.003 $\chi^2$/NDF:1515.1/24

Right Out: -0.017+/-0.012 $\chi^2$/NDF: 357.8/25

Left In: -0.243+/-0.003 $\chi^2$/NDF:1811.8/22

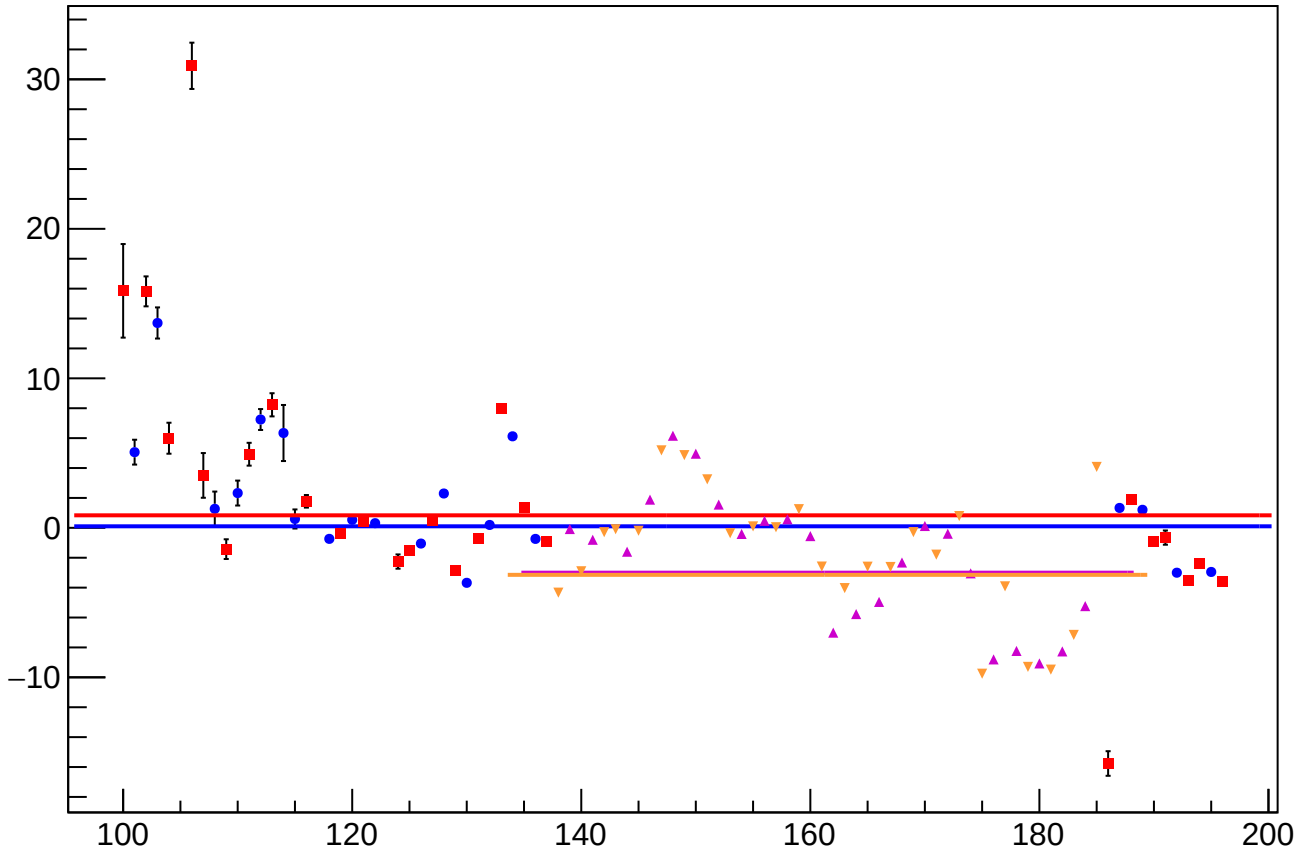
Left: -0.250+/-0.002 $\chi^2$/NDF: 3340.9/47

Right: -0.026+/-0.008 $\chi^2$/NDF: 600.5/45

In: -0.232+/-0.003 $\chi^2$/NDF:2350.3/42

Out: -0.246+/-0.003 $\chi^2$/NDF:2251.3/50

All: -0.239+/-0.002 $\chi^2$/NDF: 4615.2/93




Right In: 0.102+/-0.067 $\chi^2$/NDF: 1398.1/19

Left Out: -3.144+/-0.028 $\chi^2$/NDF:25358.6/24

Right Out: 0.837+/-0.059 $\chi^2$/NDF: 3580.2/25

Left In: -2.999+/-0.028 $\chi^2$/NDF:22425.0/22

Left: -3.074+/-0.020 $\chi^2$/NDF: 47797.0/47

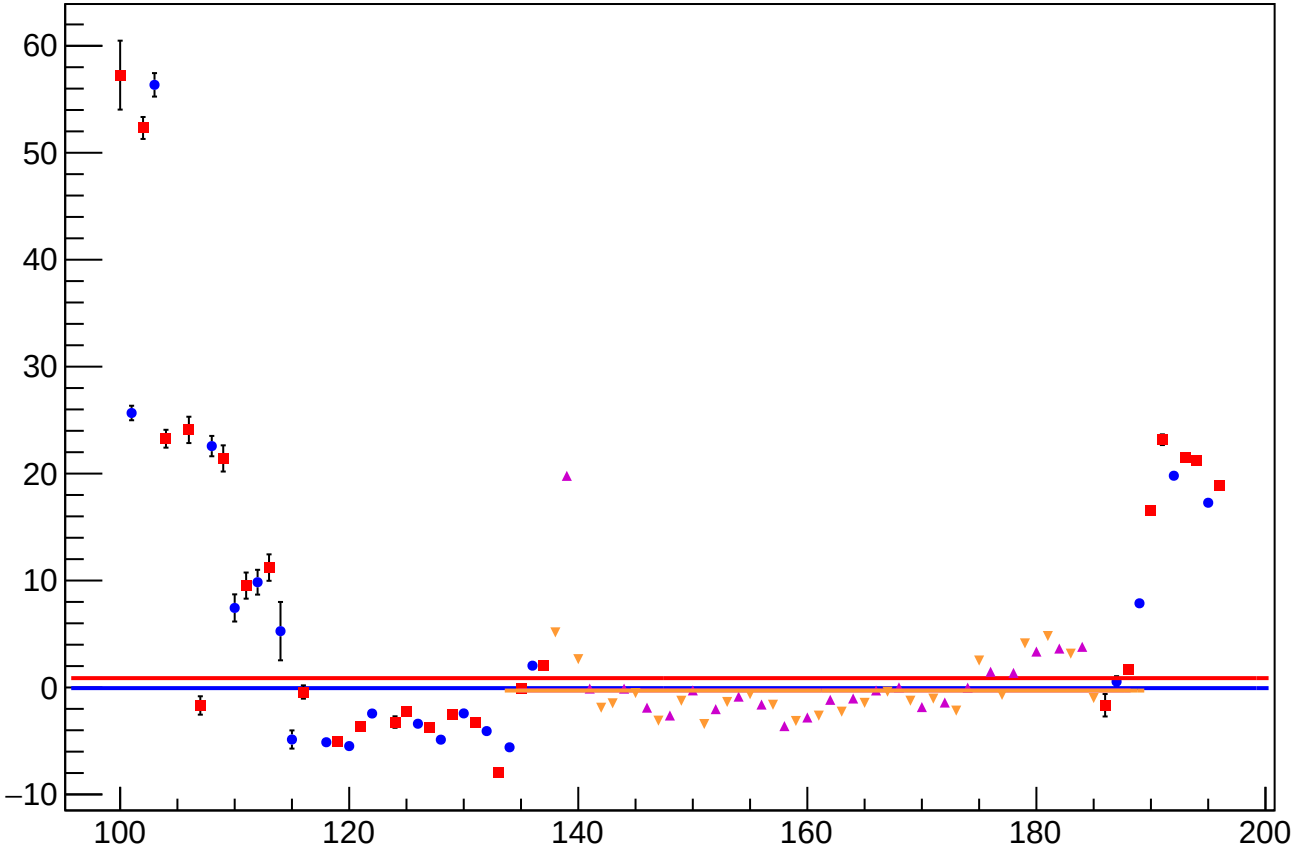
Right: 0.514+/-0.044 $\chi^2$/NDF: 5045.4/45

In: -2.527+/-0.026 $\chi^2$/NDF:25632.6/42

Out: -2.433+/-0.025 $\chi^2$/NDF:32624.3/50

All: -2.478+/-0.018 $\chi^2$/NDF: 58263.7/93

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -0.061+/-0.065 $\chi^2$/NDF: 17167.1/19

Left Out: -0.288+/-0.022 $\chi^2$/NDF:12198.2/24

Right Out: 0.874+/-0.060 $\chi^2$/NDF: 27429.2/25

Left In: -0.271+/-0.022 $\chi^2$/NDF:13220.8/22

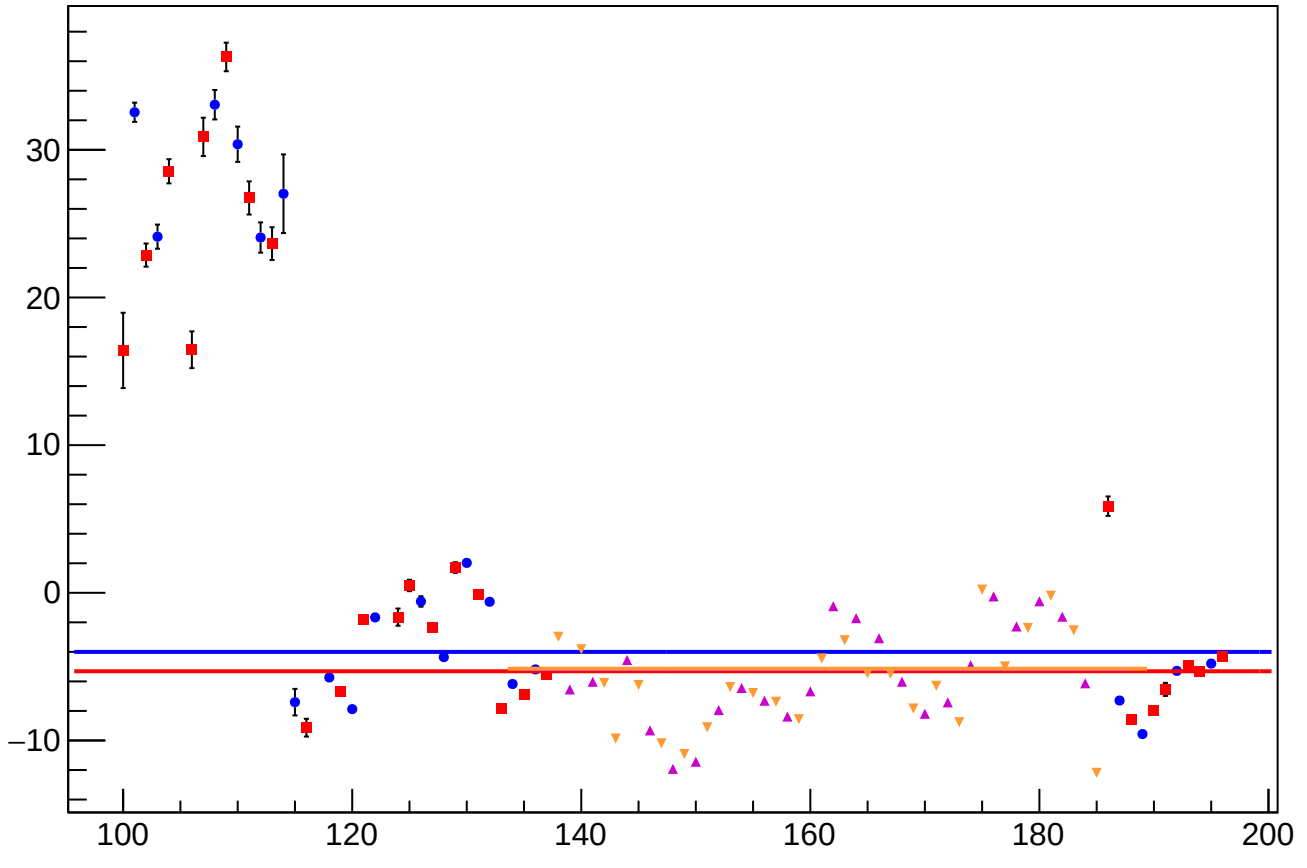
Left: -0.280+/-0.016 $\chi^2$/NDF: 25419.3/47

Right: 0.440+/-0.044 $\chi^2$/NDF: 44708.6/45

In: -0.249+/-0.021 $\chi^2$/NDF:30397.4/42

Out: -0.153+/-0.020 $\chi^2$/NDF:39957.5/50

All: -0.199+/-0.015 $\chi^2$/NDF: 70365.6/93




Right In: -4.001+/-0.068 $\chi^2$/NDF: 9322.3/19

Left Out: -5.138+/-0.028 $\chi^2$/NDF:14626.0/24

Right Out: -5.314+/-0.057 $\chi^2$/NDF: 10477.0/25

Left In: -5.177+/-0.028 $\chi^2$/NDF:13963.7/22

Left: -5.157+/-0.020 $\chi^2$/NDF: 28590.7/47

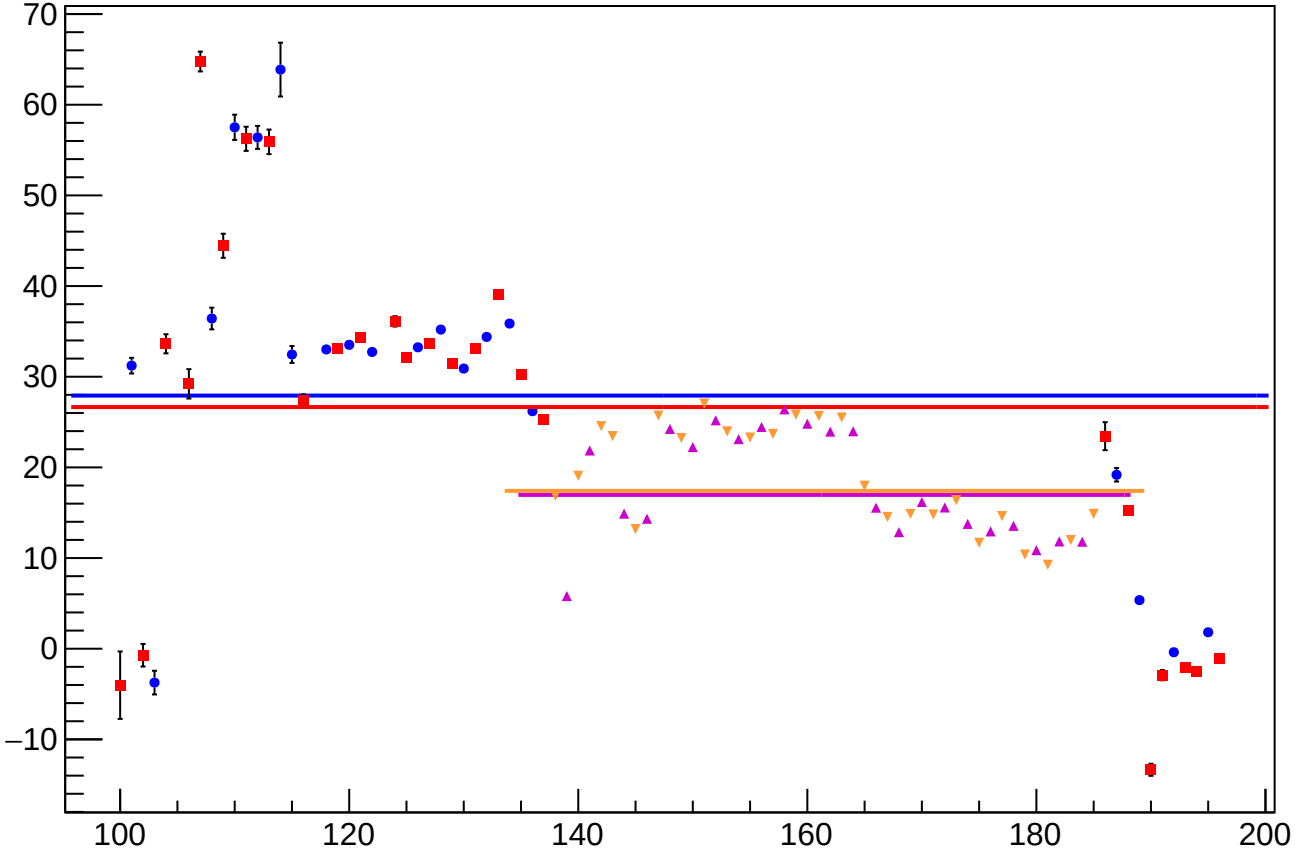
Right: -4.771+/-0.044 $\chi^2$/NDF: 20017.6/45

In: -5.003+/-0.026 $\chi^2$/NDF:23540.4/42

Out: -5.172+/-0.025 $\chi^2$/NDF:25110.7/50

All: -5.091+/-0.018 $\chi^2$/NDF: 48672.8/93

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 27.919+/-0.075 $\chi^2$/NDF: 21914.6/19

Left Out: 17.409+/-0.024 $\chi^2$/NDF:50630.8/24

Right Out: 26.654+/-0.071 $\chi^2$/NDF: 40859.4/25

Left In: 16.967+/-0.025 $\chi^2$/NDF:39939.4/22

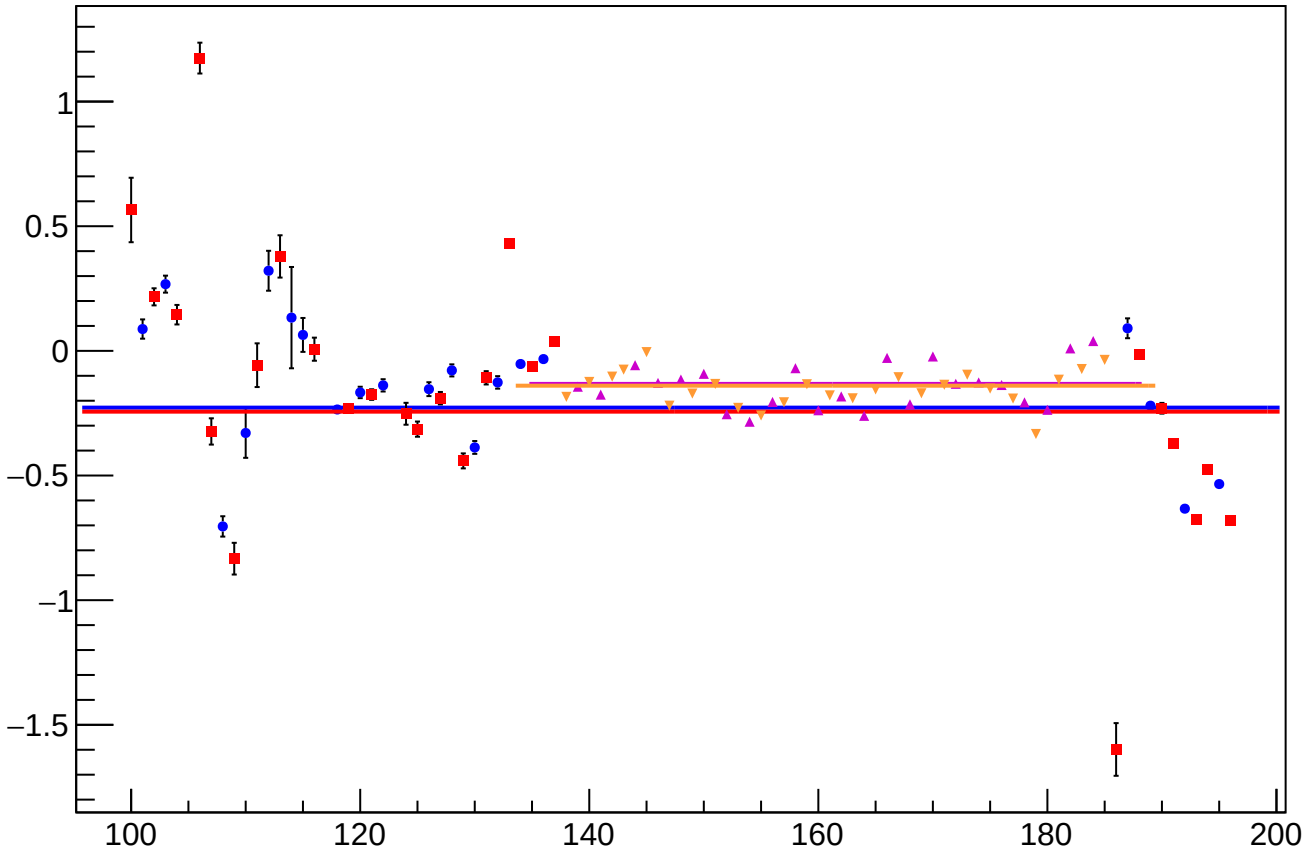
Left: 17.193+/-0.017 $\chi^2$/NDF: 90729.6/47

Right: 27.252+/-0.052 $\chi^2$/NDF: 62922.8/45

In: 18.056+/-0.024 $\chi^2$/NDF:80915.7/42

Out: 18.381+/-0.023 $\chi^2$/NDF:106522.2/50

All: 18.223+/-0.017 $\chi^2$/NDF: 187534.1/93




Right In: -0.228+/-0.004 $\chi^2$/NDF: 4037.1/19

Left Out: -0.140+/-0.001 $\chi^2$/NDF:4108.2/24

Right Out: -0.244+/-0.004 $\chi^2$/NDF: 8317.4/25

Left In: -0.133+/-0.001 $\chi^2$/NDF:5529.7/22

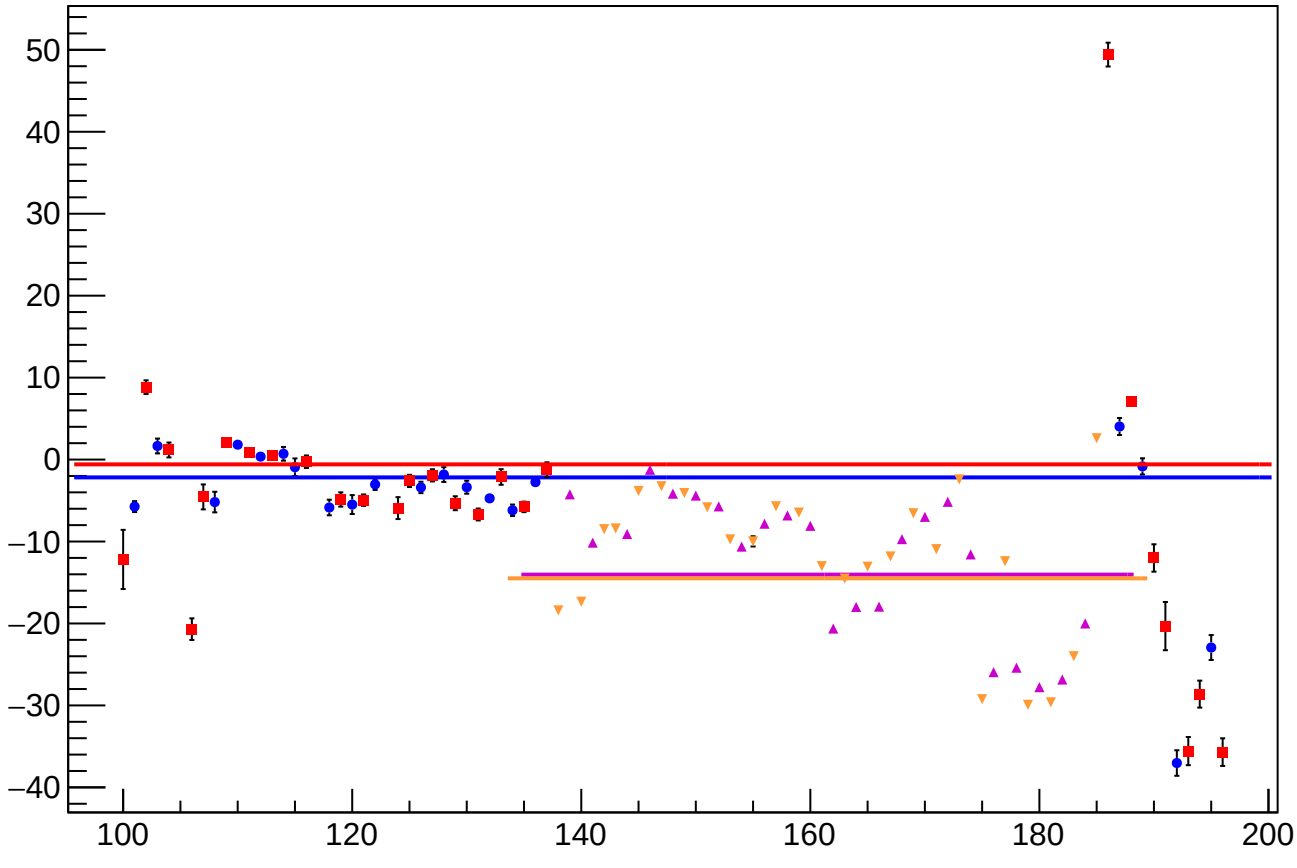
Left: -0.136+/-0.001 $\chi^2$/NDF: 9659.1/47

Right: -0.236+/-0.003 $\chi^2$/NDF: 12363.9/45

In: -0.140+/-0.001 $\chi^2$/NDF:10120.3/42

Out: -0.149+/-0.001 $\chi^2$/NDF:13202.5/50

All: -0.144+/-0.001 $\chi^2$/NDF: 23358.1/93




Right In: -2.176+/-0.152 $\chi^2$/NDF: 1028.0/19

Left Out: -14.494+/-0.075 $\chi^2$/NDF:17232.7/24

Right Out: -0.585+/-0.140 $\chi^2$/NDF: 3355.8/25

Left In: -14.038+/-0.077 $\chi^2$/NDF:13482.5/22

Left: -14.272+/-0.054 $\chi^2$/NDF: 30733.3/47

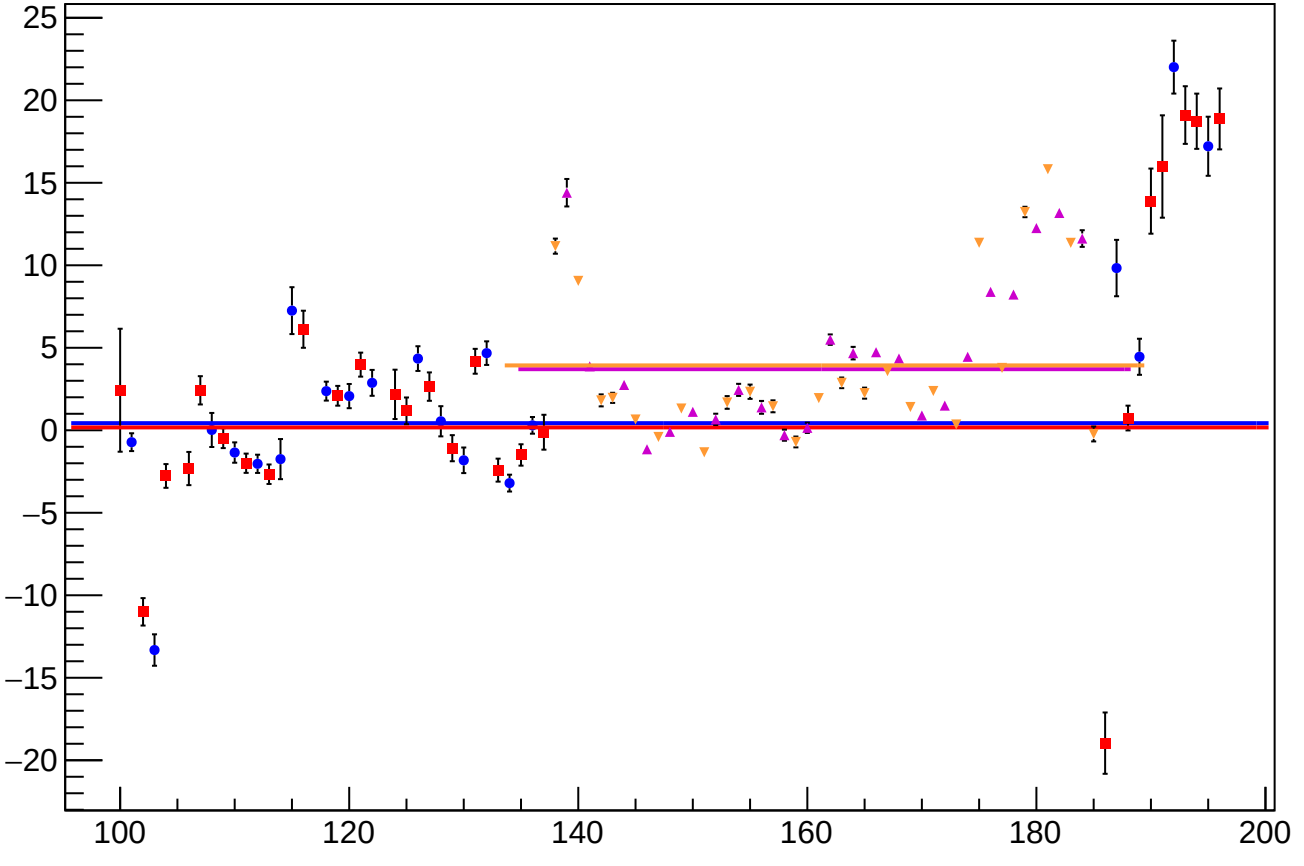
Right: -1.315+/-0.103 $\chi^2$/NDF: 4443.1/45

In: -11.624+/-0.069 $\chi^2$/NDF:19362.7/42

Out: -11.408+/-0.066 $\chi^2$/NDF:28267.6/50

All: -11.512+/-0.048 $\chi^2$/NDF: 47635.4/93

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.431+/-0.168 $\chi^2$/NDF: 728.2/19

Left Out: 3.932+/-0.058 $\chi^2$/NDF:6979.2/24

Right Out: 0.174+/-0.168 $\chi^2$/NDF: 901.4/25

Left In: 3.703+/-0.059 $\chi^2$/NDF:4788.5/22

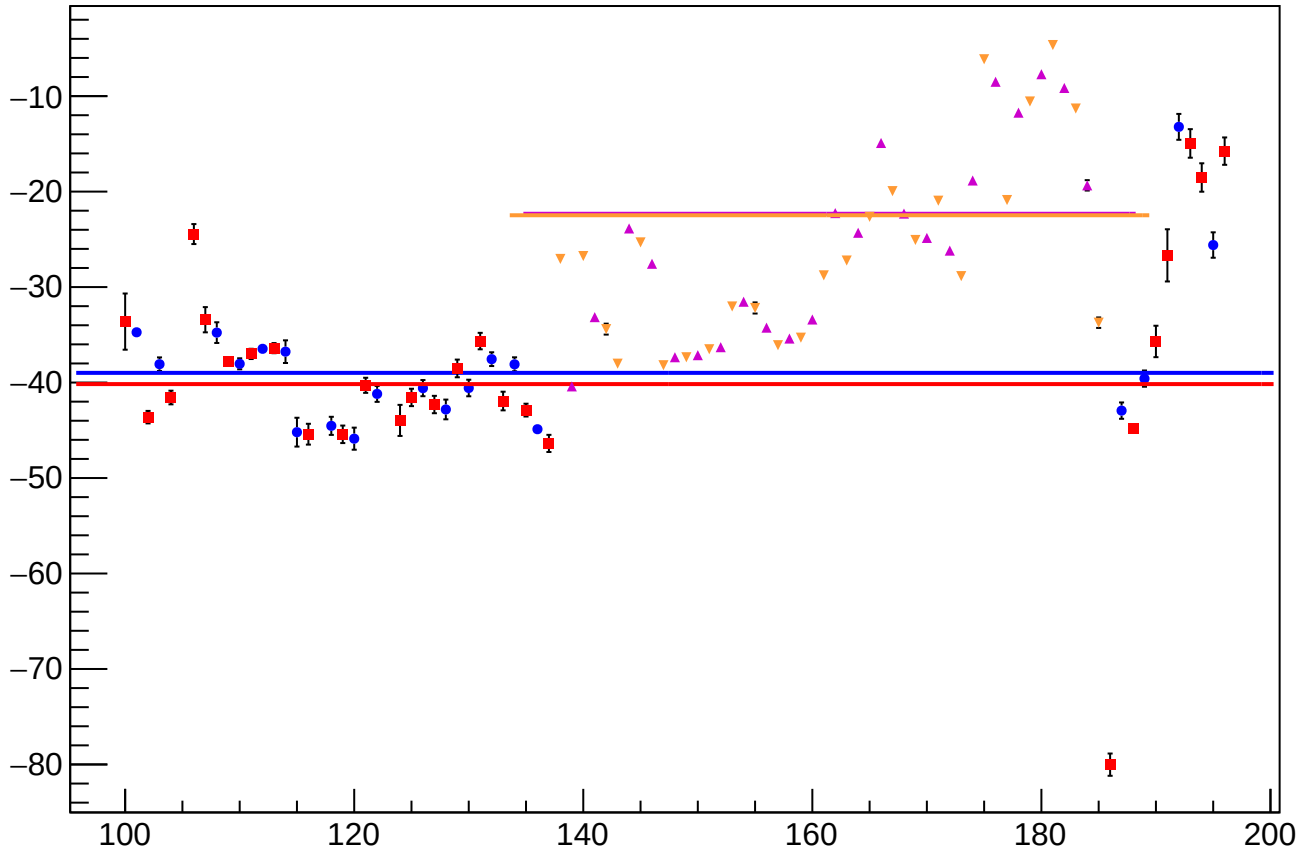
Left: 3.820+/-0.041 $\chi^2$/NDF: 11775.3/47

Right: 0.302+/-0.119 $\chi^2$/NDF: 1630.7/45

In: 3.342+/-0.056 $\chi^2$/NDF:5852.8/42

Out: 3.535+/-0.055 $\chi^2$/NDF:8325.8/50

All: 3.440+/-0.039 $\chi^2$/NDF: 14184.7/93




Right In: -38.985+/-0.170 $\chi^2$/NDF: 901.1/19

Left Out: -22.478+/-0.075 $\chi^2$/NDF:20417.4/24

Right Out: -40.162+/-0.161 $\chi^2$/NDF: 2665.4/25

Left In: -22.322+/-0.077 $\chi^2$/NDF:17133.3/22

Left: -22.402+/-0.054 $\chi^2$/NDF: 37552.8/47

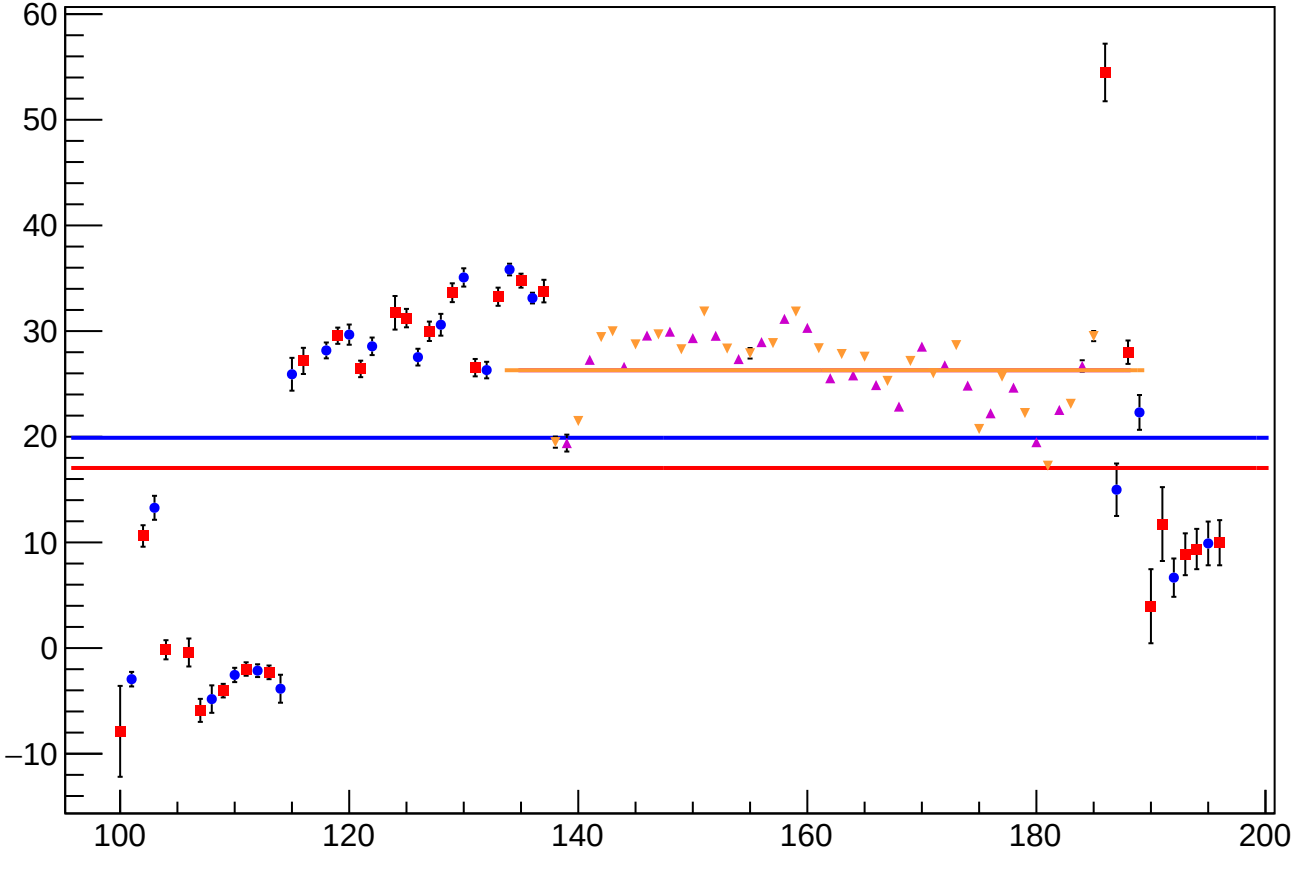
Right: -39.605+/-0.117 $\chi^2$/NDF: 3591.8/45

In: -25.135+/-0.070 $\chi^2$/NDF:26029.6/42

Out: -25.617+/-0.068 $\chi^2$/NDF:33009.3/50

All: -25.383+/-0.049 $\chi^2$/NDF: 59063.3/93

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 19.902+/-0.191 $\chi^2$/NDF: 6768.7/19

Left Out: 26.296+/-0.065 $\chi^2$/NDF:3307.8/24

Right Out: 17.044+/-0.193 $\chi^2$/NDF: 7087.9/25

Left In: 26.292+/-0.067 $\chi^2$/NDF:2185.8/22

Left: 26.294+/-0.047 $\chi^2$/NDF: 5493.5/47

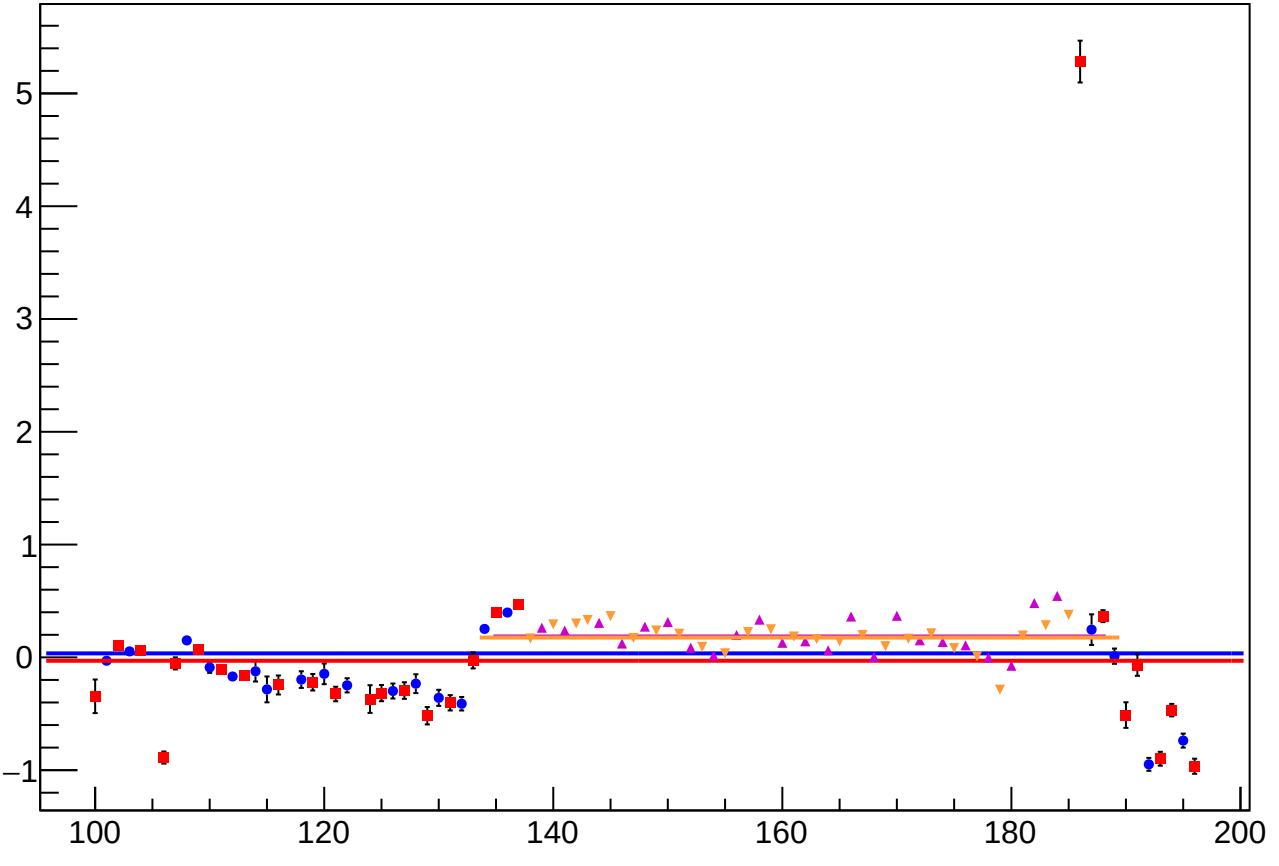
Right: 18.487+/-0.136 $\chi^2$/NDF: 13967.7/45

In: 25.598+/-0.063 $\chi^2$/NDF:9953.4/42

Out: 25.348+/-0.062 $\chi^2$/NDF:12465.2/50

All: 25.471+/-0.044 $\chi^2$/NDF: 22426.6/93

reg_asym_sam_1357_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.035+/-0.010 $\chi^2$/NDF: 1042.2/19

Left Out: 0.176+/-0.003 $\chi^2$/NDF:1935.6/24

Right Out: -0.030+/-0.010 $\chi^2$/NDF: 2199.7/25

Left In: 0.185+/-0.003 $\chi^2$/NDF:2538.5/22

Left: 0.180+/-0.002 $\chi^2$/NDF: 4479.2/47

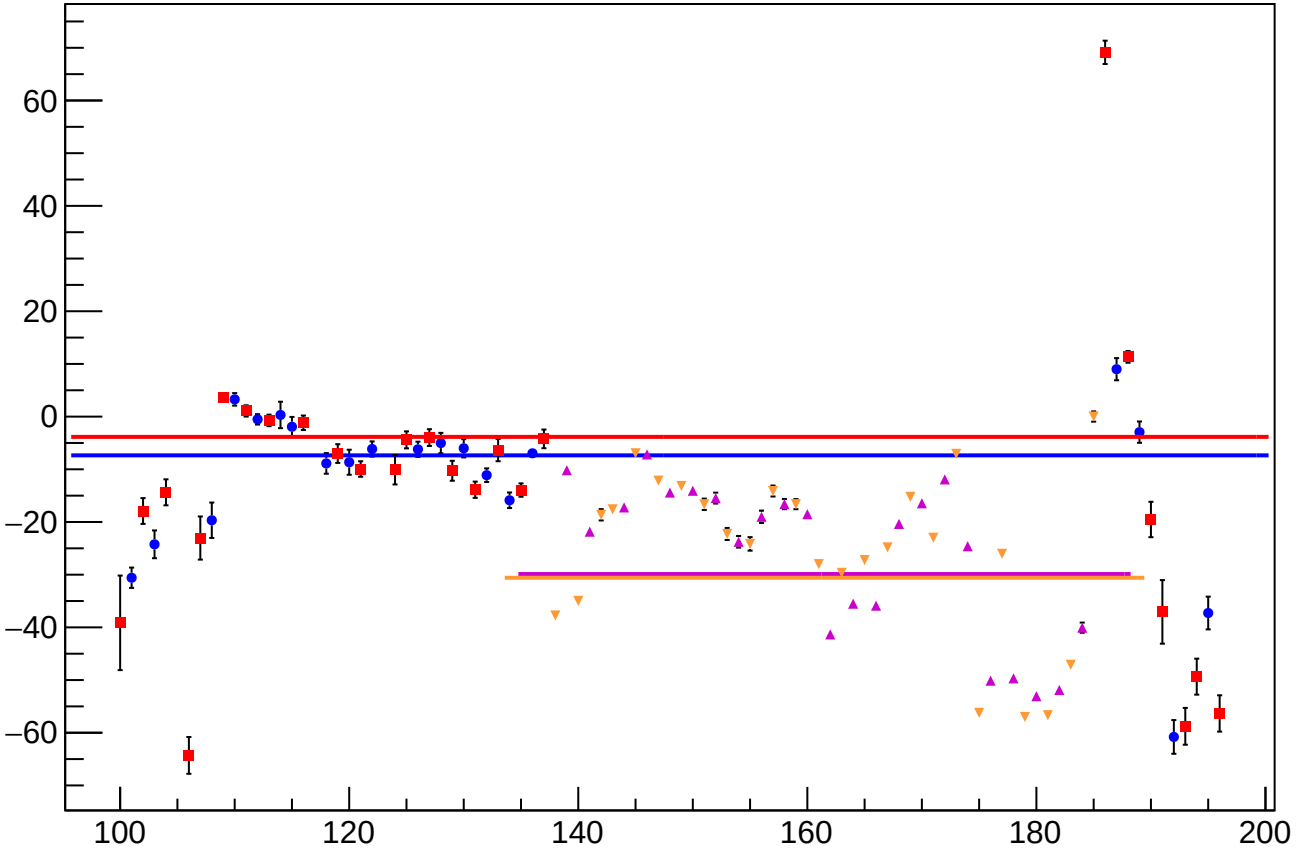
Right: 0.003+/-0.007 $\chi^2$/NDF: 3262.9/45

In: 0.173+/-0.003 $\chi^2$/NDF:3787.4/42

Out: 0.160+/-0.003 $\chi^2$/NDF:4511.4/50

All: 0.166+/-0.002 $\chi^2$/NDF: 8309.0/93

reg_asym_sam_2468_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -7.354+/-0.359 $\chi^2$/NDF: 829.1/19

Left Out: -30.587+/-0.142 $\chi^2$/NDF:16046.0/24

Right Out: -3.845+/-0.339 $\chi^2$/NDF: 2607.5/25

Left In: -29.878+/-0.146 $\chi^2$/NDF:12034.7/22

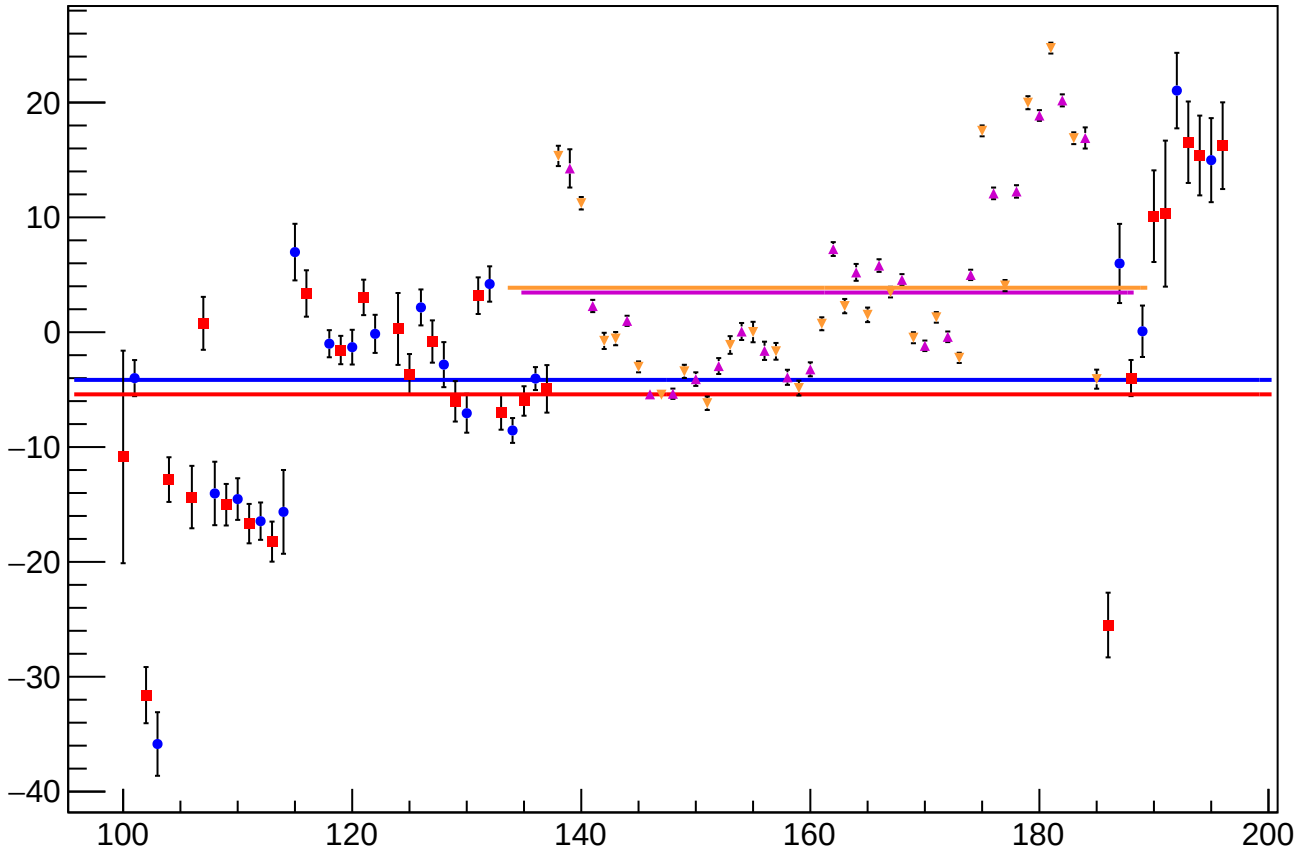
Left: -30.242+/-0.102 $\chi^2$/NDF: 28092.8/47

Right: -5.497+/-0.246 $\chi^2$/NDF: 3487.1/45

In: -26.673+/-0.135 $\chi^2$/NDF:16240.0/42

Out: -26.580+/-0.131 $\chi^2$/NDF:23957.6/50

All: -26.625+/-0.094 $\chi^2$/NDF: 40197.8/93




Right In: -4.152+/-0.382 $\chi^2$/NDF: 444.6/19

Left Out: 3.873+/-0.111 $\chi^2$/NDF:6542.0/24

Right Out: -5.411+/-0.389 $\chi^2$/NDF: 552.4/25

Left In: 3.453+/-0.114 $\chi^2$/NDF:4693.7/22

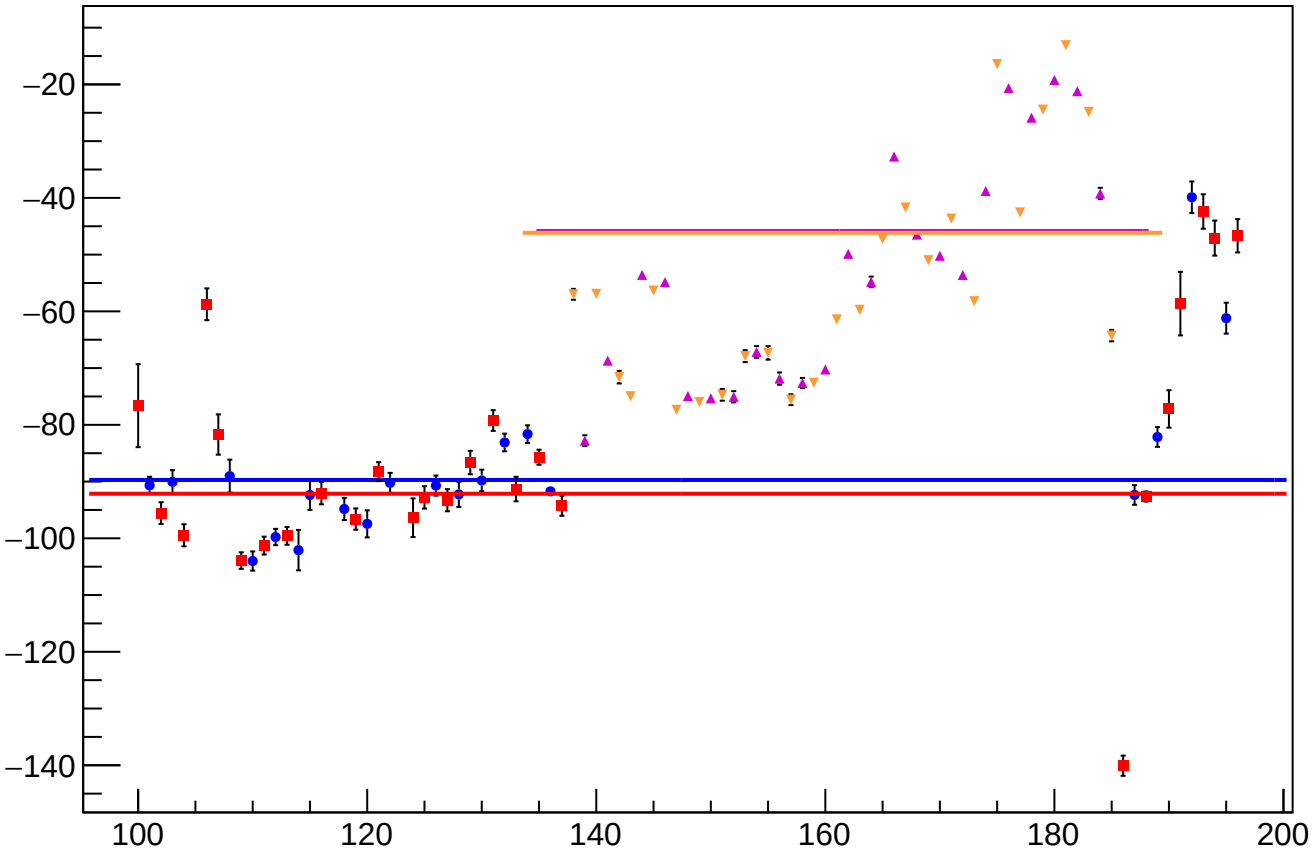
Left: 3.667+/-0.079 $\chi^2$/NDF: 11242.7/47

Right: -4.770+/-0.273 $\chi^2$/NDF: 1002.4/45

In: 2.835+/-0.109 $\chi^2$/NDF:5502.3/42

Out: 3.171+/-0.107 $\chi^2$/NDF:7621.4/50

All: 3.006+/-0.076 $\chi^2$/NDF: 13128.6/93




Right In: -89.717+/-0.393 $\chi^2$/NDF: 654.8/19

Left Out: -46.153+/-0.142 $\chi^2$/NDF:21455.9/24

Right Out: -92.144+/-0.373 $\chi^2$/NDF: 1894.5/25

Left In: -45.833+/-0.146 $\chi^2$/NDF:17924.6/22

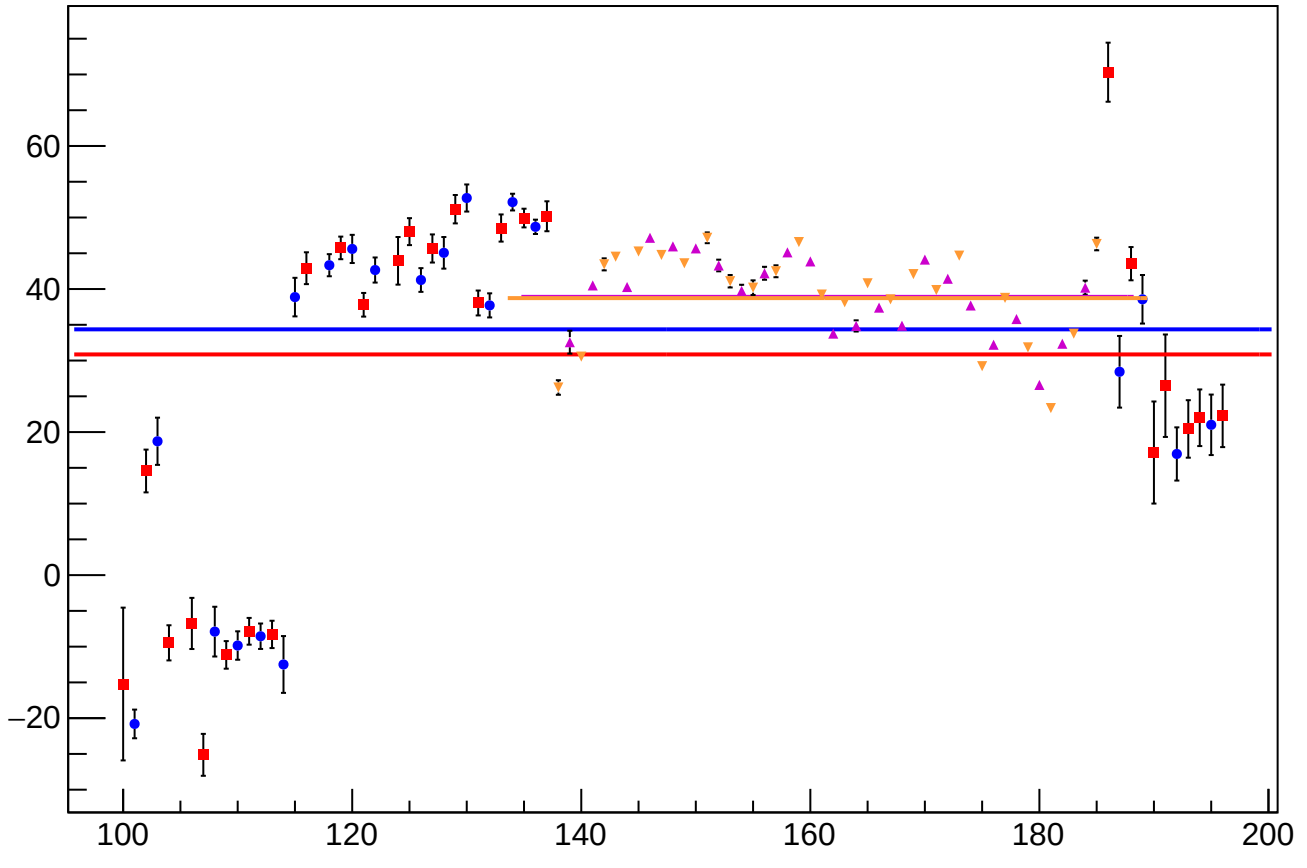
Left: -45.997+/-0.102 $\chi^2$/NDF: 39383.0/47

Right: -90.993+/-0.270 $\chi^2$/NDF: 2569.4/45

In: -51.167+/-0.137 $\chi^2$/NDF:29557.1/42

Out: -52.008+/-0.133 $\chi^2$/NDF:36628.3/50

All: -51.599+/-0.095 $\chi^2$/NDF: 66204.8/93




Right In: 34.363+/-0.431 $\chi^2$/NDF: 2844.6/19

Left Out: 38.730+/-0.125 $\chi^2$/NDF:2781.7/24

Right Out: 30.857+/-0.445 $\chi^2$/NDF: 3053.5/25

Left In: 38.905+/-0.127 $\chi^2$/NDF:1971.6/22

Left: 38.816+/-0.089 $\chi^2$/NDF: 4754.3/47

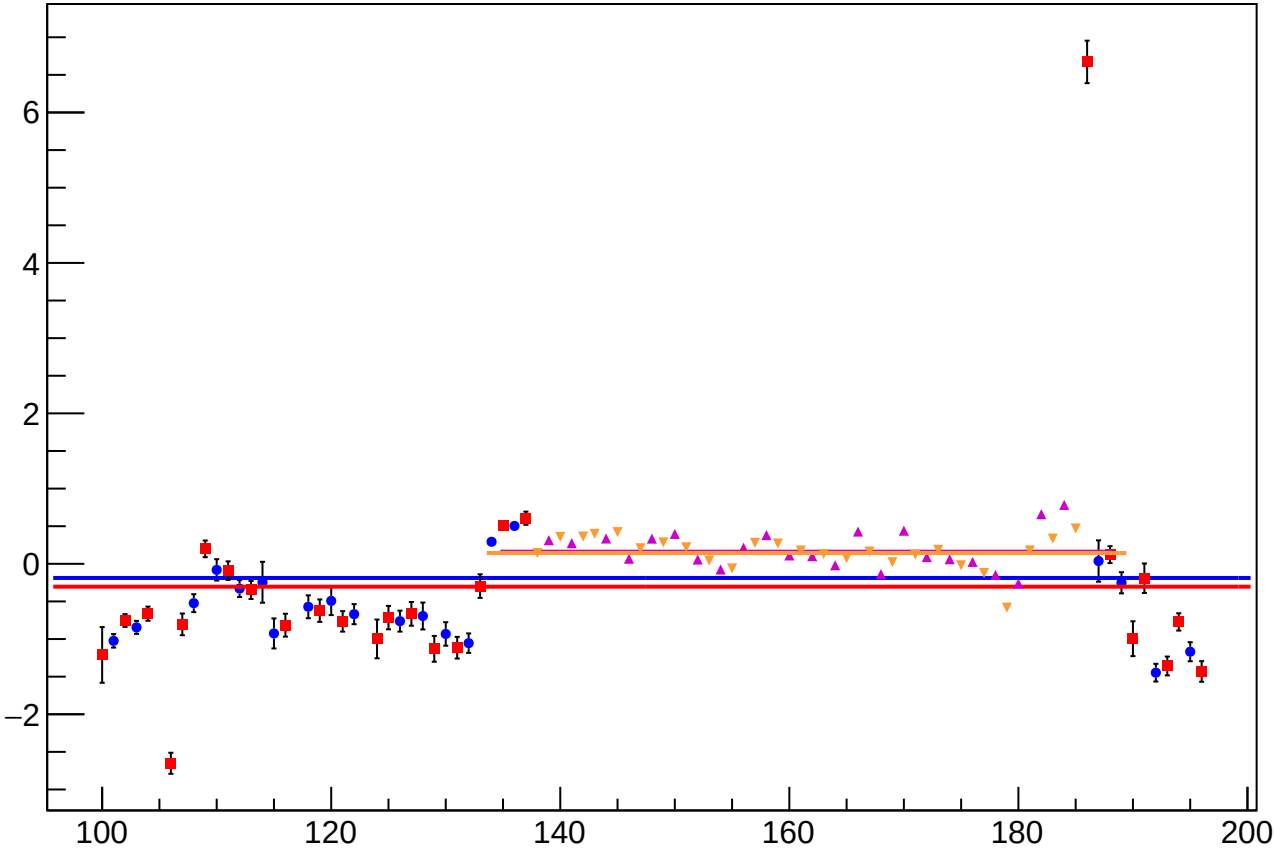
Right: 32.666+/-0.310 $\chi^2$/NDF: 5930.1/45

In: 38.540+/-0.122 $\chi^2$/NDF:4918.3/42

Out: 38.159+/-0.120 $\chi^2$/NDF:6125.2/50

All: 38.346+/-0.086 $\chi^2$/NDF: 11048.5/93

reg_asym_sam_2468_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.188+/-0.023 $\chi^2$/NDF: 820.0/19

Left Out: 0.144+/-0.006 $\chi^2$/NDF:1442.8/24

Right Out: -0.304+/-0.024 $\chi^2$/NDF: 1613.2/25

Left In: 0.161+/-0.006 $\chi^2$/NDF:1918.8/22

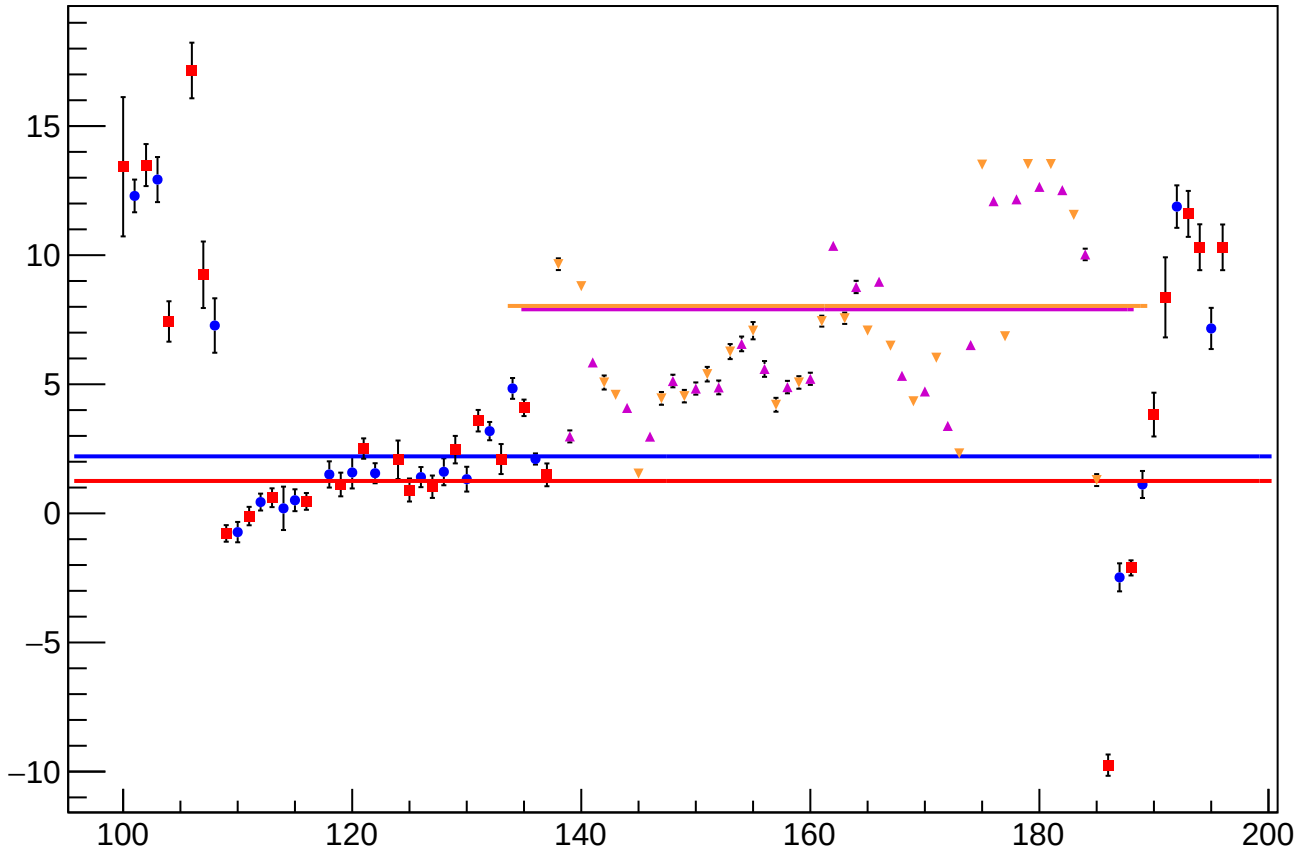
Left: 0.152+/-0.004 $\chi^2$/NDF: 3366.6/47

Right: -0.244+/-0.016 $\chi^2$/NDF: 2445.6/45

In: 0.141+/-0.006 $\chi^2$/NDF:2960.6/42

Out: 0.120+/-0.005 $\chi^2$/NDF:3392.5/50

All: 0.130+/-0.004 $\chi^2$/NDF: 6360.0/93




Right In: 2.208+/-0.100 $\chi^2$/NDF: 854.9/19

Left Out: 8.034+/-0.035 $\chi^2$/NDF:13924.1/24

Right Out: 1.255+/-0.094 $\chi^2$/NDF: 1976.0/25

Left In: 7.903+/-0.036 $\chi^2$/NDF:10017.8/22

Left: 7.970+/-0.025 $\chi^2$/NDF: 23948.8/47

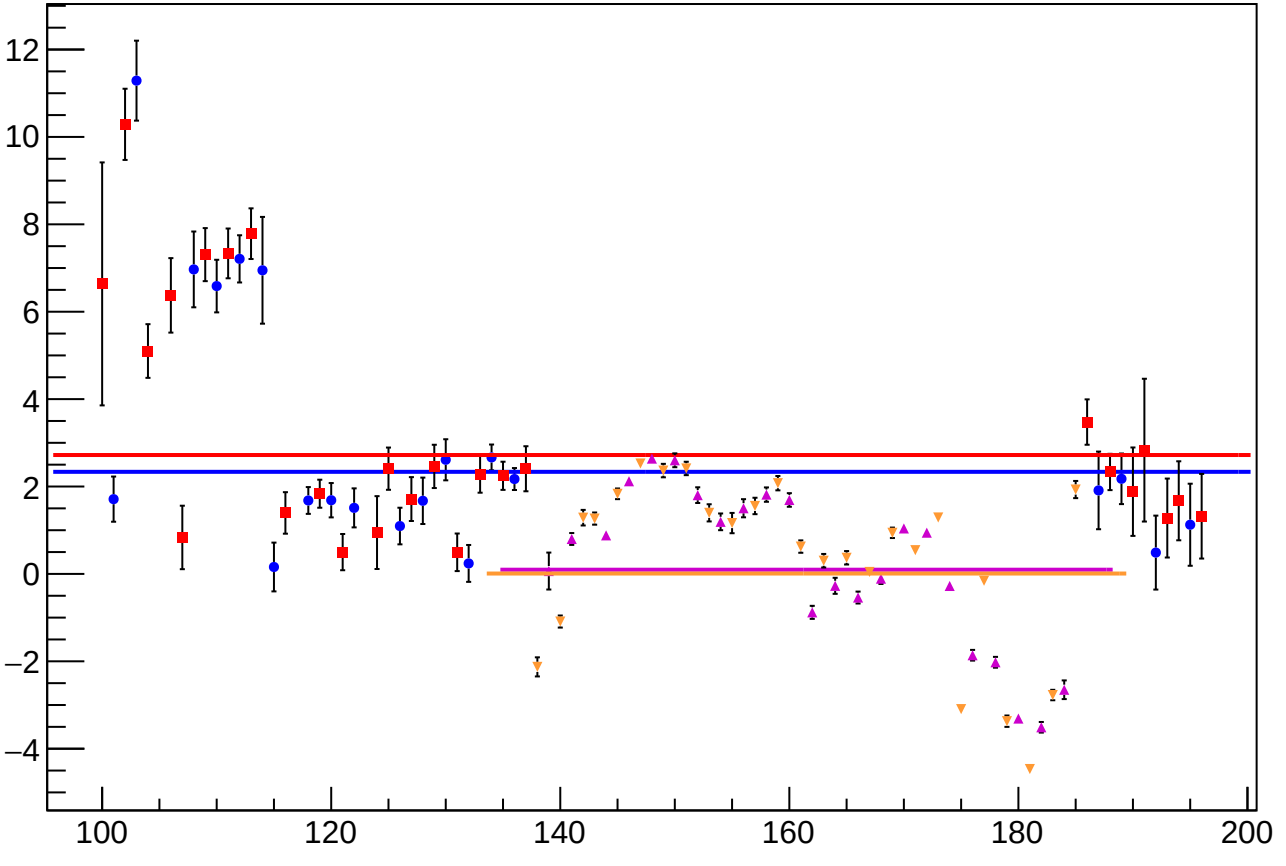
Right: 1.704+/-0.068 $\chi^2$/NDF: 2879.2/45

In: 7.251+/-0.034 $\chi^2$/NDF:13768.3/42

Out: 7.221+/-0.033 $\chi^2$/NDF:20470.0/50

All: 7.236+/-0.023 $\chi^2$/NDF: 34238.7/93

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 2.336+/-0.104 $\chi^2$/NDF: 340.9/19

Left Out: 0.009+/-0.027 $\chi^2$/NDF:5761.2/24

Right Out: 2.721+/-0.106 $\chi^2$/NDF: 420.9/25

Left In: 0.096+/-0.028 $\chi^2$/NDF:4433.3/22

Left: 0.051+/-0.020 $\chi^2$/NDF: 10199.5/47

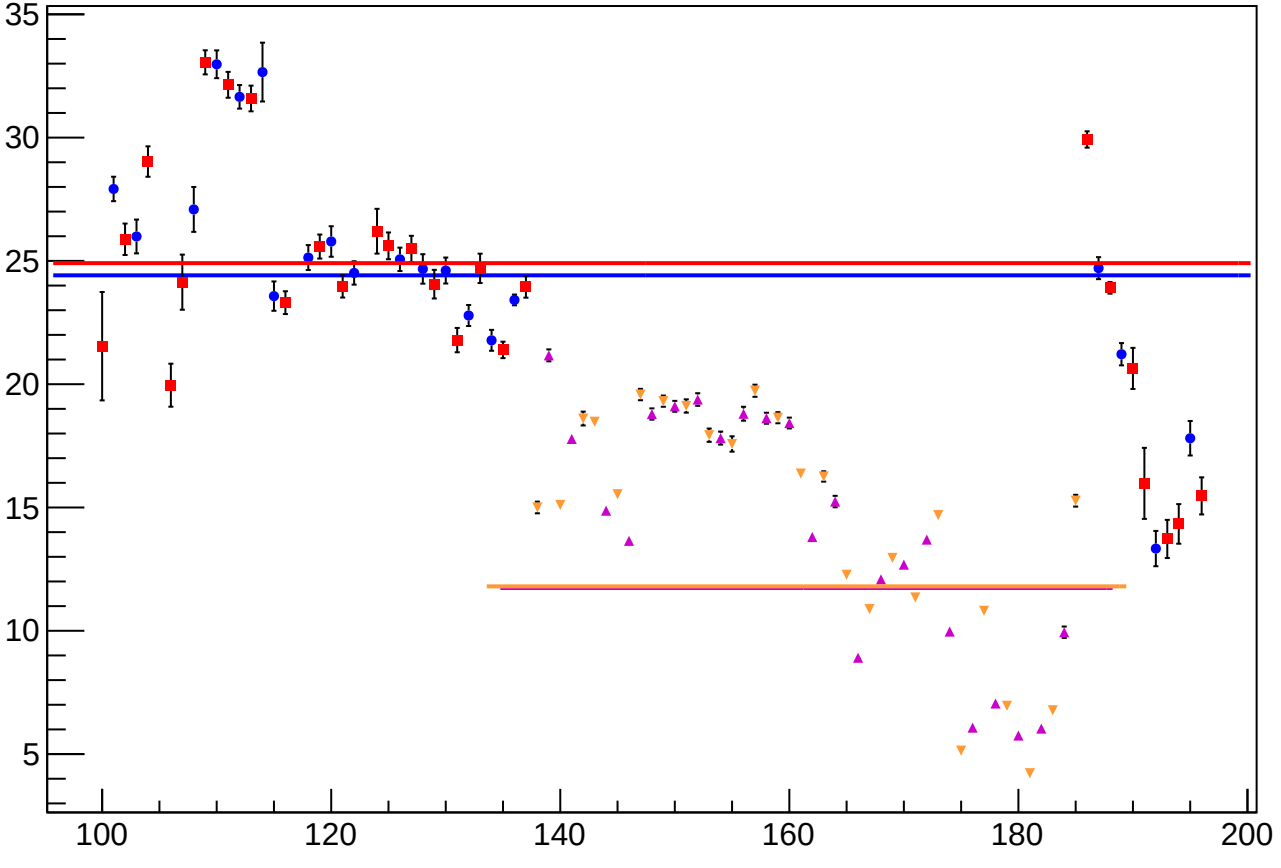
Right: 2.525+/-0.074 $\chi^2$/NDF: 768.5/45

In: 0.248+/-0.027 $\chi^2$/NDF:5204.4/42

Out: 0.179+/-0.027 $\chi^2$/NDF:6794.4/50

All: 0.213+/-0.019 $\chi^2$/NDF: 12002.1/93

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 24.414+/-0.108 $\chi^2$/NDF: 1036.2/19

Left Out: 11.802+/-0.035 $\chi^2$/NDF:21479.5/24

Right Out: 24.910+/-0.101 $\chi^2$/NDF: 1747.5/25

Left In: 11.735+/-0.036 $\chi^2$/NDF:17999.5/22

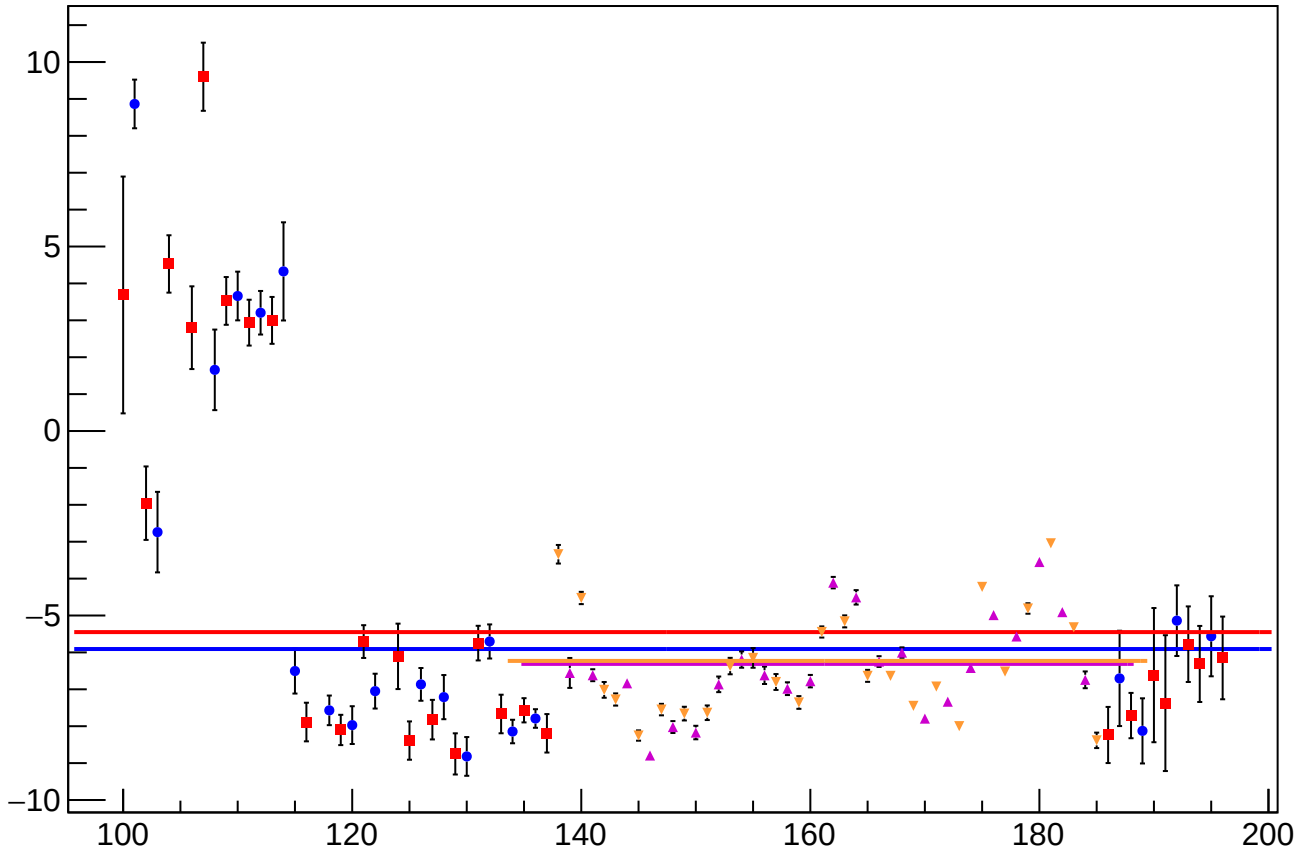
Left: 11.769+/-0.025 $\chi^2$/NDF: 39480.8/47

Right: 24.679+/-0.073 $\chi^2$/NDF: 2795.0/45

In: 12.998+/-0.034 $\chi^2$/NDF:31528.7/42

Out: 13.207+/-0.033 $\chi^2$/NDF:38398.8/50

All: 13.106+/-0.024 $\chi^2$/NDF: 69947.0/93




Right In: -5.908+/-0.117 $\chi^2$/NDF: 1258.9/19

Left Out: -6.231+/-0.031 $\chi^2$/NDF:2450.1/24

Right Out: -5.449+/-0.122 $\chi^2$/NDF: 1324.7/25

Left In: -6.311+/-0.031 $\chi^2$/NDF:2030.2/22

Left: -6.270+/-0.022 $\chi^2$/NDF: 4483.6/47

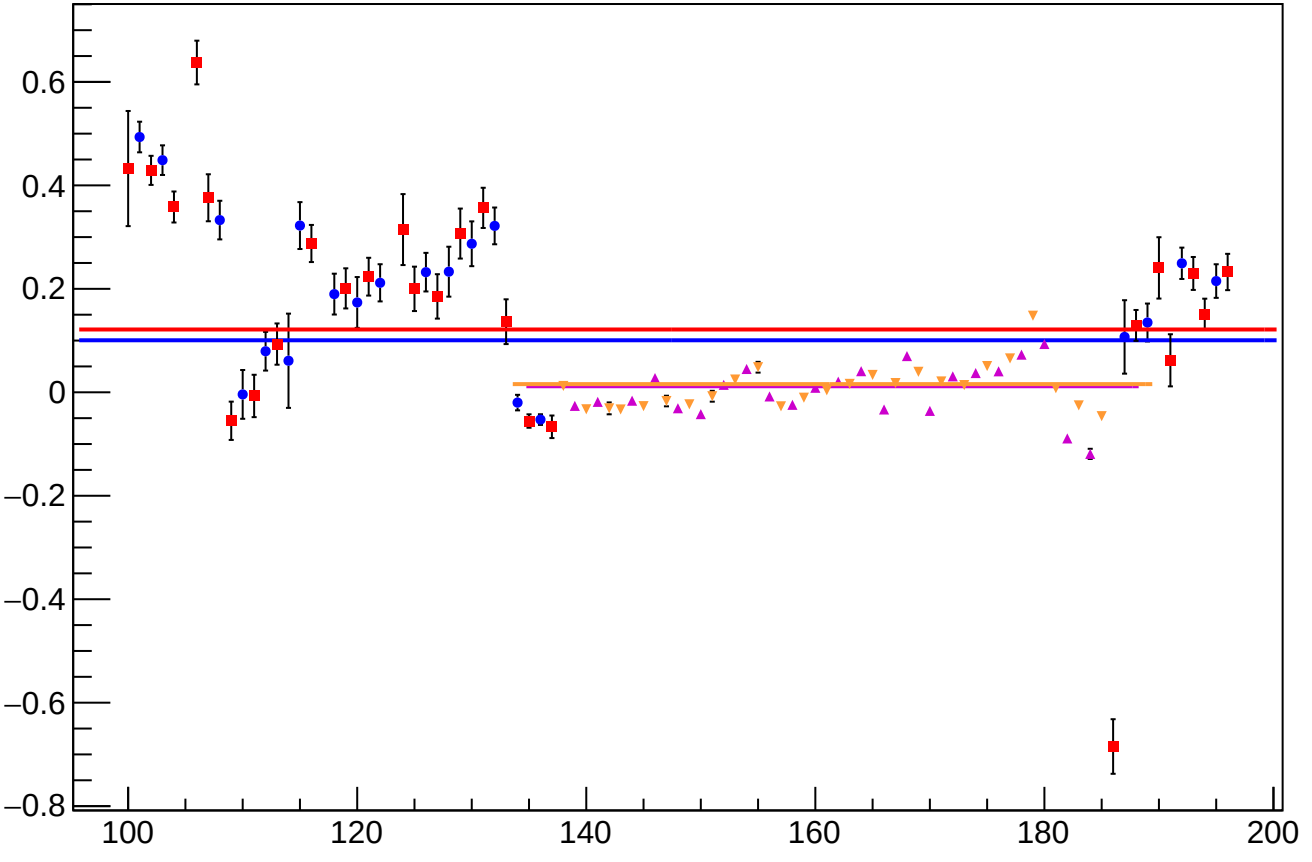
Right: -5.687+/-0.085 $\chi^2$/NDF: 2591.0/45

In: -6.284+/-0.030 $\chi^2$/NDF:3300.1/42

Out: -6.184+/-0.030 $\chi^2$/NDF:3813.4/50

All: -6.233+/-0.021 $\chi^2$/NDF: 7119.0/93

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 0.101+/-0.006 $\chi^2$/NDF: 809.3/19

Left Out: 0.016+/-0.001 $\chi^2$/NDF:933.4/24

Right Out: 0.121+/-0.006 $\chi^2$/NDF: 1023.9/25

Left In: 0.012+/-0.001 $\chi^2$/NDF:1297.5/22

Left: 0.014+/-0.001 $\chi^2$/NDF: 2235.3/47

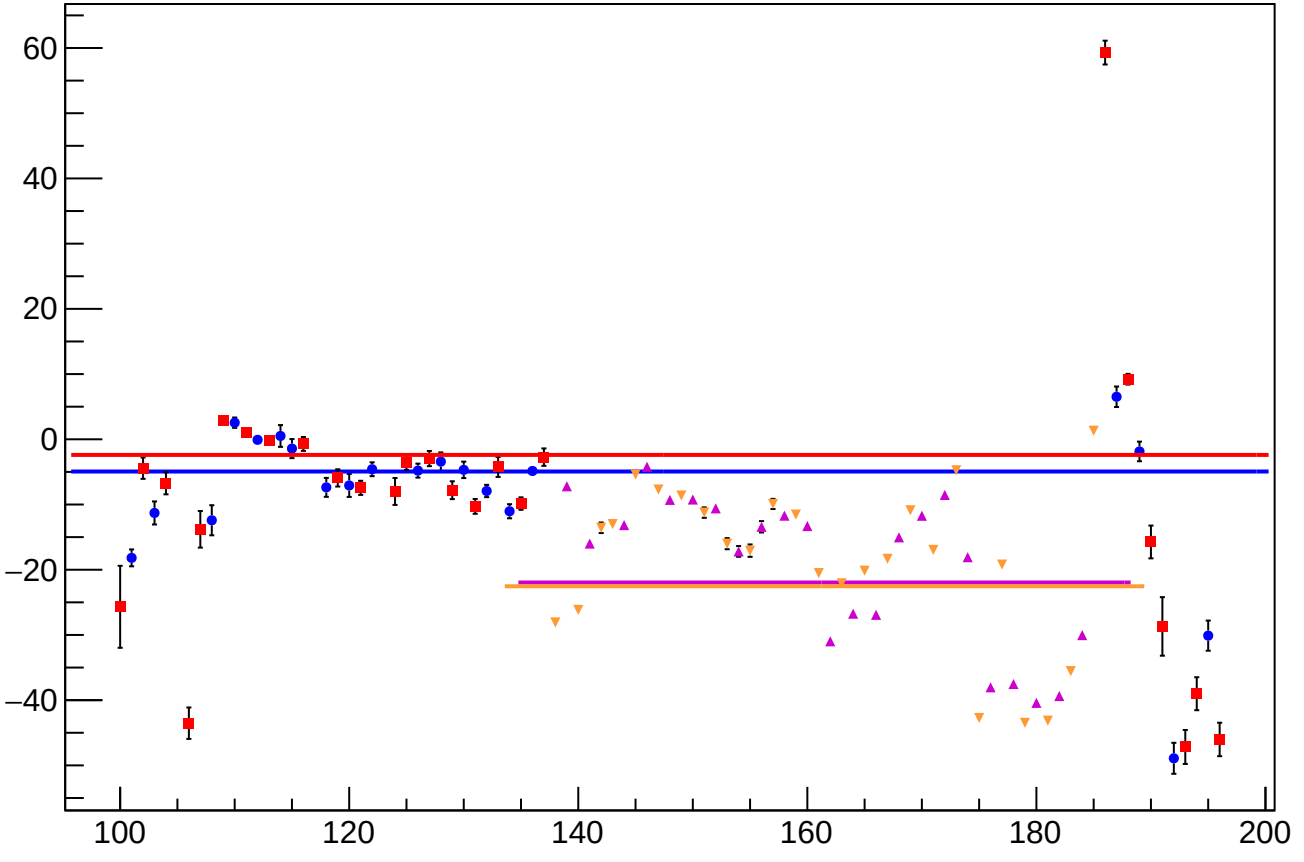
Right: 0.111+/-0.004 $\chi^2$/NDF: 1838.6/45

In: 0.016+/-0.001 $\chi^2$/NDF:2302.0/42

Out: 0.020+/-0.001 $\chi^2$/NDF:2210.2/50

All: 0.018+/-0.001 $\chi^2$/NDF: 4517.2/93

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -4.937+/-0.257 $\chi^2$/NDF: 853.1/19

Left Out: -22.538+/-0.108 $\chi^2$/NDF:16540.6/24

Right Out: -2.394+/-0.242 $\chi^2$/NDF: 2793.3/25

Left In: -21.957+/-0.111 $\chi^2$/NDF:12585.3/22

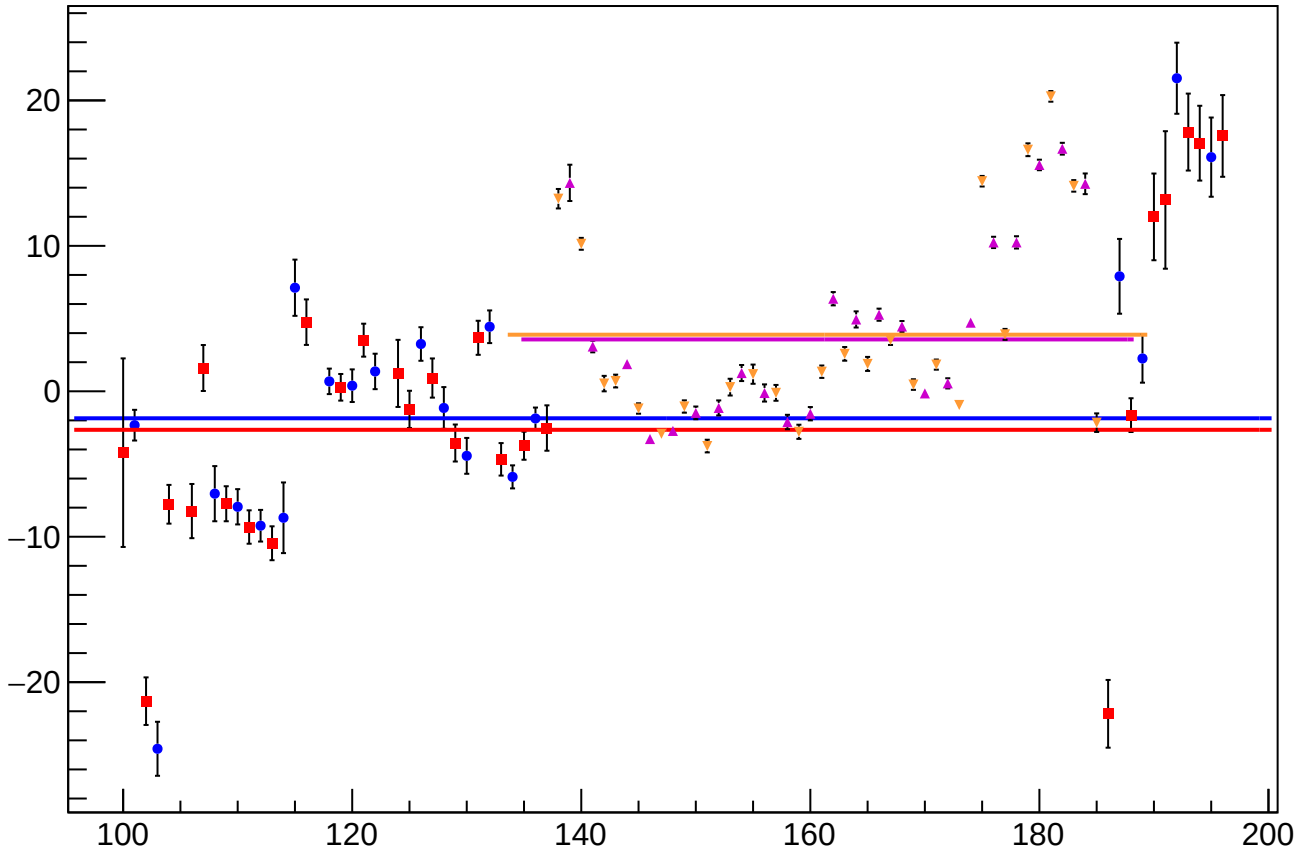
Left: -22.255+/-0.078 $\chi^2$/NDF: 29139.9/47

Right: -3.585+/-0.176 $\chi^2$/NDF: 3698.3/45

In: -19.282+/-0.102 $\chi^2$/NDF:17122.3/42

Out: -19.176+/-0.099 $\chi^2$/NDF:25129.5/50

All: -19.227+/-0.071 $\chi^2$/NDF: 42252.3/93




Right In: -1.856+/-0.277 $\chi^2$/NDF: 514.5/19

Left Out: 3.891+/-0.084 $\chi^2$/NDF:6724.1/24

Right Out: -2.648+/-0.281 $\chi^2$/NDF: 642.0/25

Left In: 3.565+/-0.086 $\chi^2$/NDF:4739.4/22

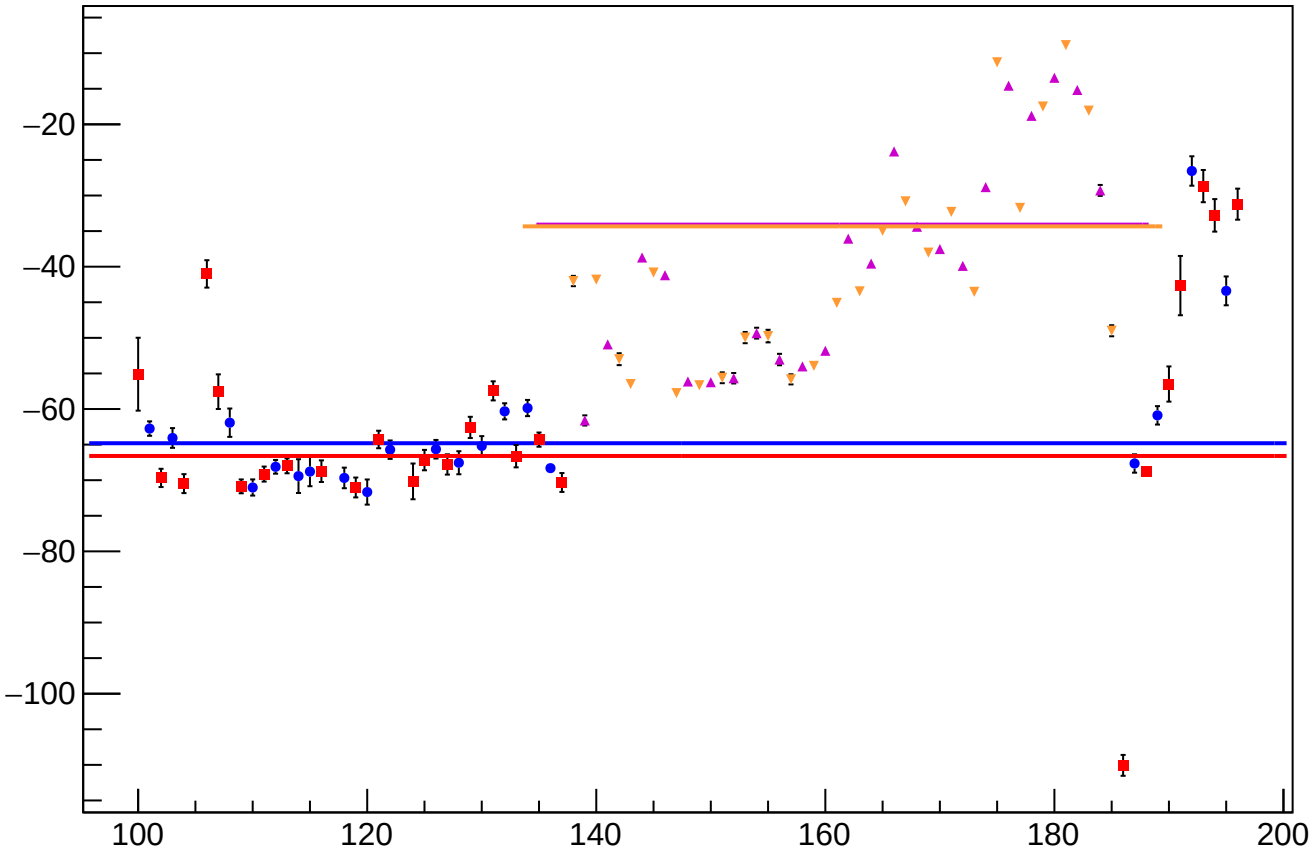
Left: 3.732+/-0.060 $\chi^2$/NDF: 11470.7/47

Right: -2.247+/-0.197 $\chi^2$/NDF: 1160.5/45

In: 3.086+/-0.082 $\chi^2$/NDF:5603.8/42

Out: 3.350+/-0.081 $\chi^2$/NDF:7864.5/50

All: 3.221+/-0.058 $\chi^2$/NDF: 13473.6/93




Right In: -64.806+/-0.283 $\chi^2$/NDF: 617.6/19

Left Out: -34.334+/-0.108 $\chi^2$/NDF:21200.8/24

Right Out: -66.596+/-0.269 $\chi^2$/NDF: 2022.8/25

Left In: -34.091+/-0.111 $\chi^2$/NDF:17726.5/22

Left: -34.216+/-0.077 $\chi^2$/NDF: 38929.7/47

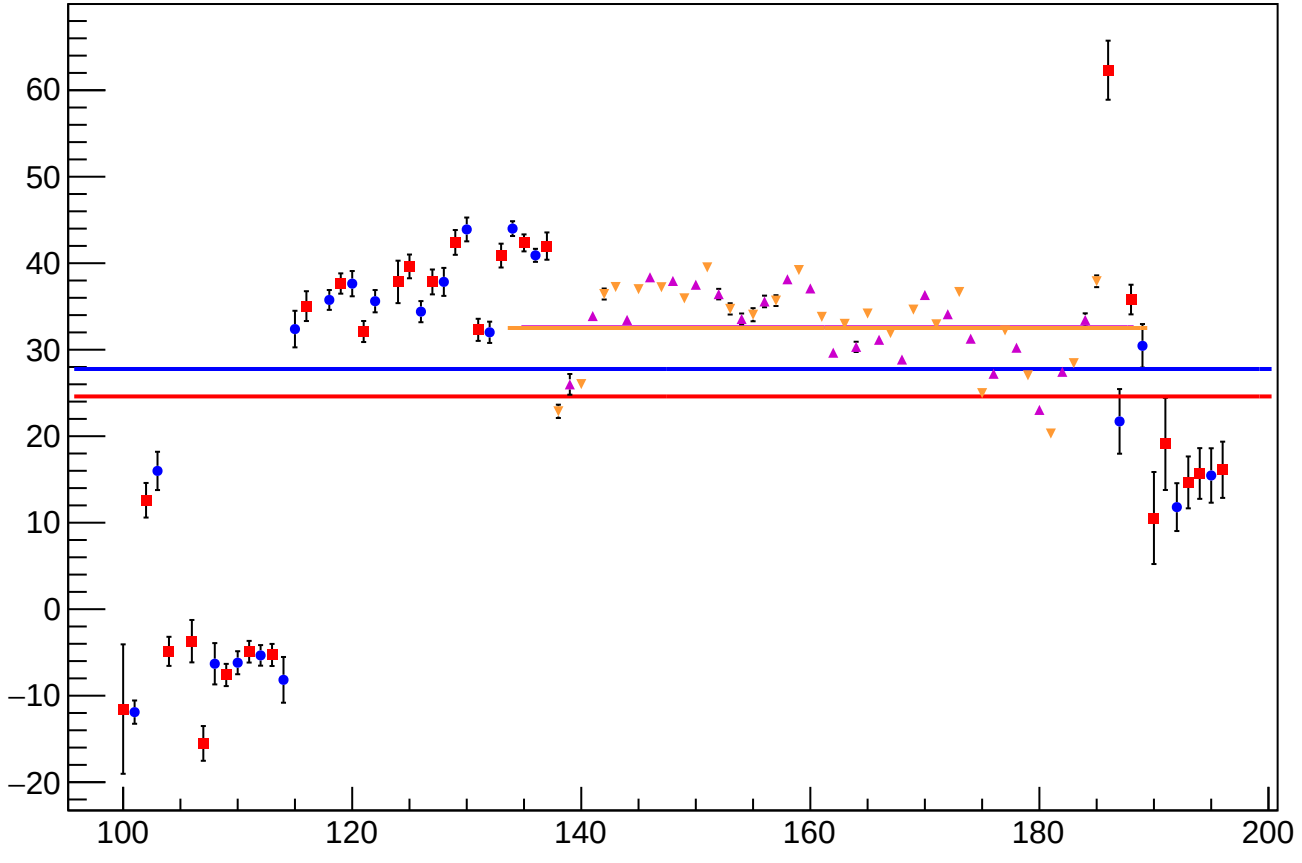
Right: -65.746+/-0.195 $\chi^2$/NDF: 2661.4/45

In: -38.180+/-0.103 $\chi^2$/NDF:28545.3/42

Out: -38.827+/-0.100 $\chi^2$/NDF:35588.2/50

All: -38.512+/-0.072 $\chi^2$/NDF: 64153.7/93

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 27.770+/-0.313 $\chi^2$/NDF: 3781.2/19

Left Out: 32.511+/-0.095 $\chi^2$/NDF:2938.0/24

Right Out: 24.597+/-0.321 $\chi^2$/NDF: 4042.8/25

Left In: 32.598+/-0.097 $\chi^2$/NDF:2012.9/22

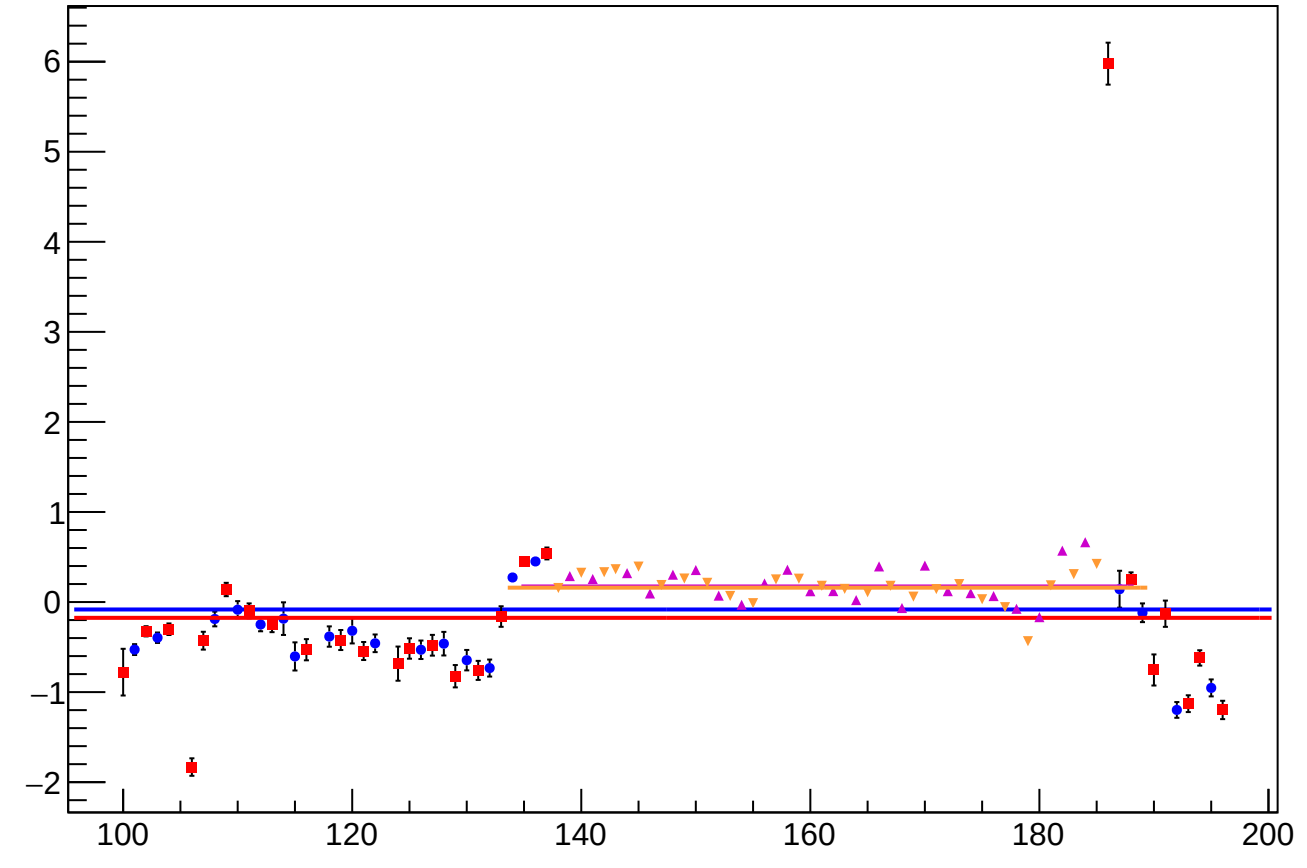
Left: 32.553+/-0.068 $\chi^2$/NDF: 4951.3/47

Right: 26.226+/-0.224 $\chi^2$/NDF: 7874.1/45

In: 32.176+/-0.092 $\chi^2$/NDF:6011.8/42

Out: 31.880+/-0.091 $\chi^2$/NDF:7539.8/50

All: 32.025+/-0.065 $\chi^2$/NDF: 13556.8/93




Right In: -0.082+/-0.016 $\chi^2$/NDF: 853.9/19

Left Out: 0.160+/-0.004 $\chi^2$/NDF:1613.0/24

Right Out: -0.175+/-0.017 $\chi^2$/NDF: 1790.5/25

Left In: 0.173+/-0.004 $\chi^2$/NDF:2129.7/22

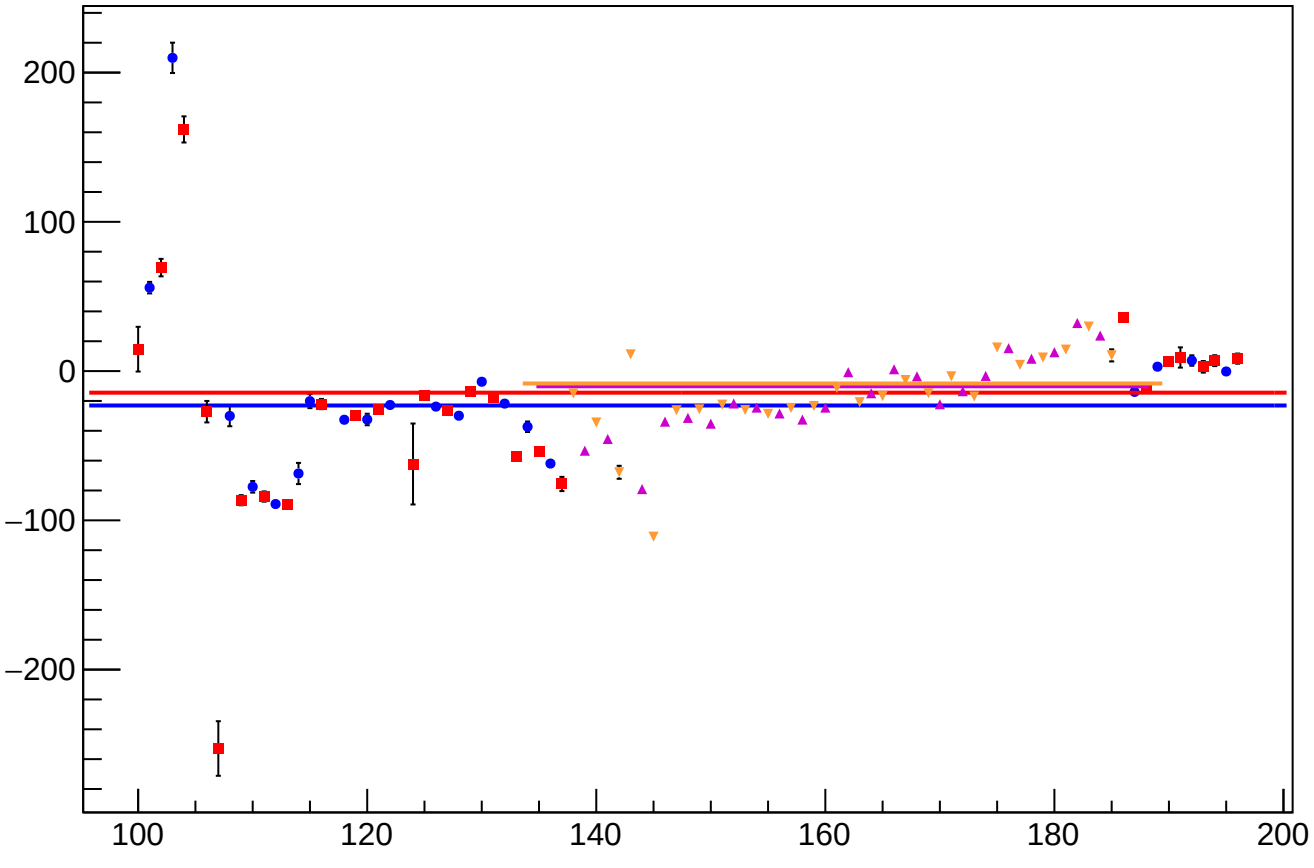
Left: 0.166+/-0.003 $\chi^2$/NDF: 3747.7/47

Right: -0.127+/-0.012 $\chi^2$/NDF: 2659.7/45

In: 0.157+/-0.004 $\chi^2$/NDF:3209.3/42

Out: 0.140+/-0.004 $\chi^2$/NDF:3764.6/50

All: 0.148+/-0.003 $\chi^2$/NDF: 6981.6/93




Right In: -23.049+/-0.697 $\chi^2$/NDF: 2289.5/19

Left Out: -8.298+/-0.514 $\chi^2$/NDF:2559.6/24

Right Out: -14.457+/-0.593 $\chi^2$/NDF: 4043.6/25

Left In: -10.183+/-0.526 $\chi^2$/NDF:2518.4/22

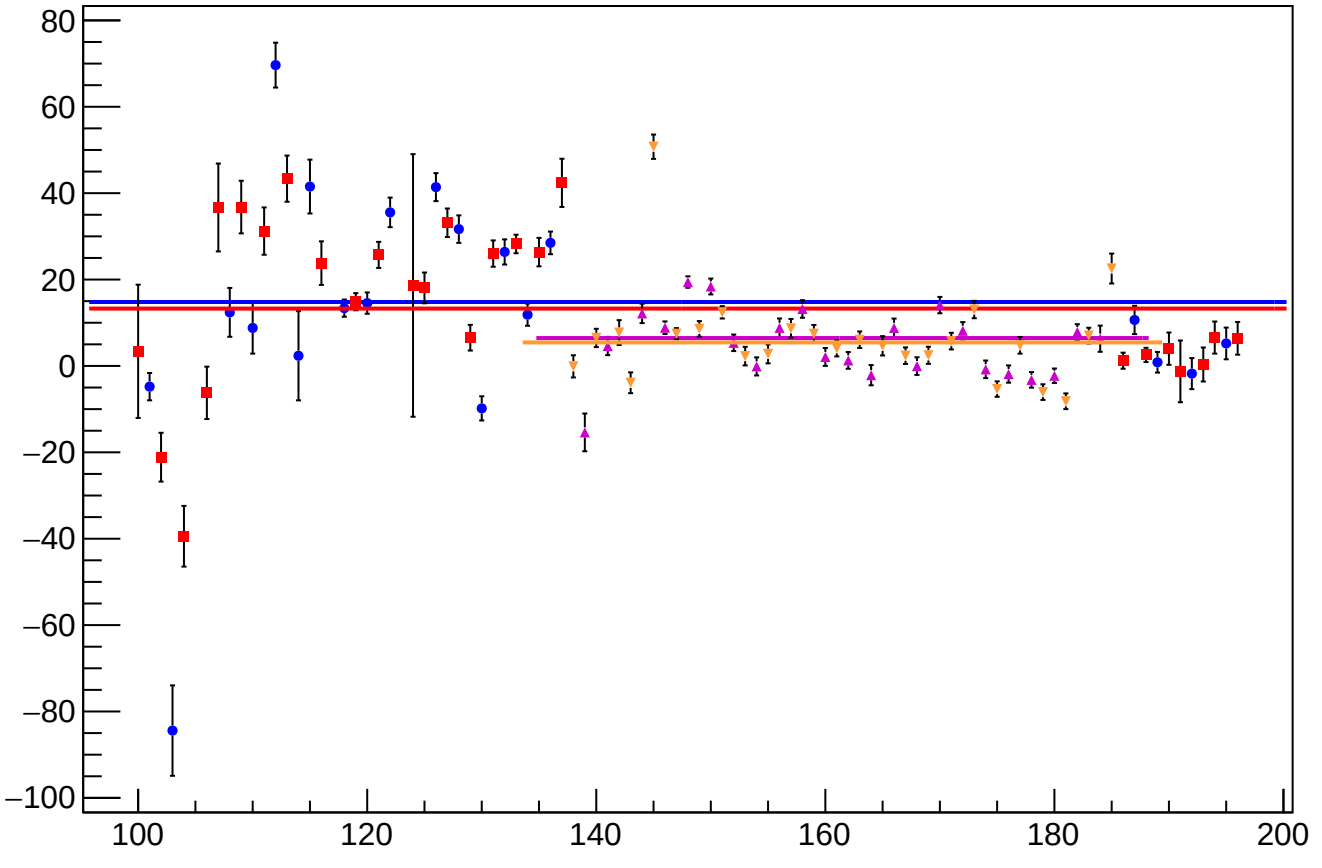
Left: -9.217+/-0.368 $\chi^2$/NDF: 5084.6/47

Right: -18.066+/-0.452 $\chi^2$/NDF: 6421.4/45

In: -14.857+/-0.420 $\chi^2$/NDF:5025.1/42

Out: -10.938+/-0.388 $\chi^2$/NDF:6664.9/50

All: -12.744+/-0.285 $\chi^2$/NDF: 11736.9/93




Right In: 14.802+/-0.726 $\chi^2$/NDF: 579.1/19

Left Out: 5.445+/-0.394 $\chi^2$/NDF:493.7/24

Right Out: 13.283+/-0.662 $\chi^2$/NDF: 452.8/25

Left In: 6.461+/-0.408 $\chi^2$/NDF:336.0/22

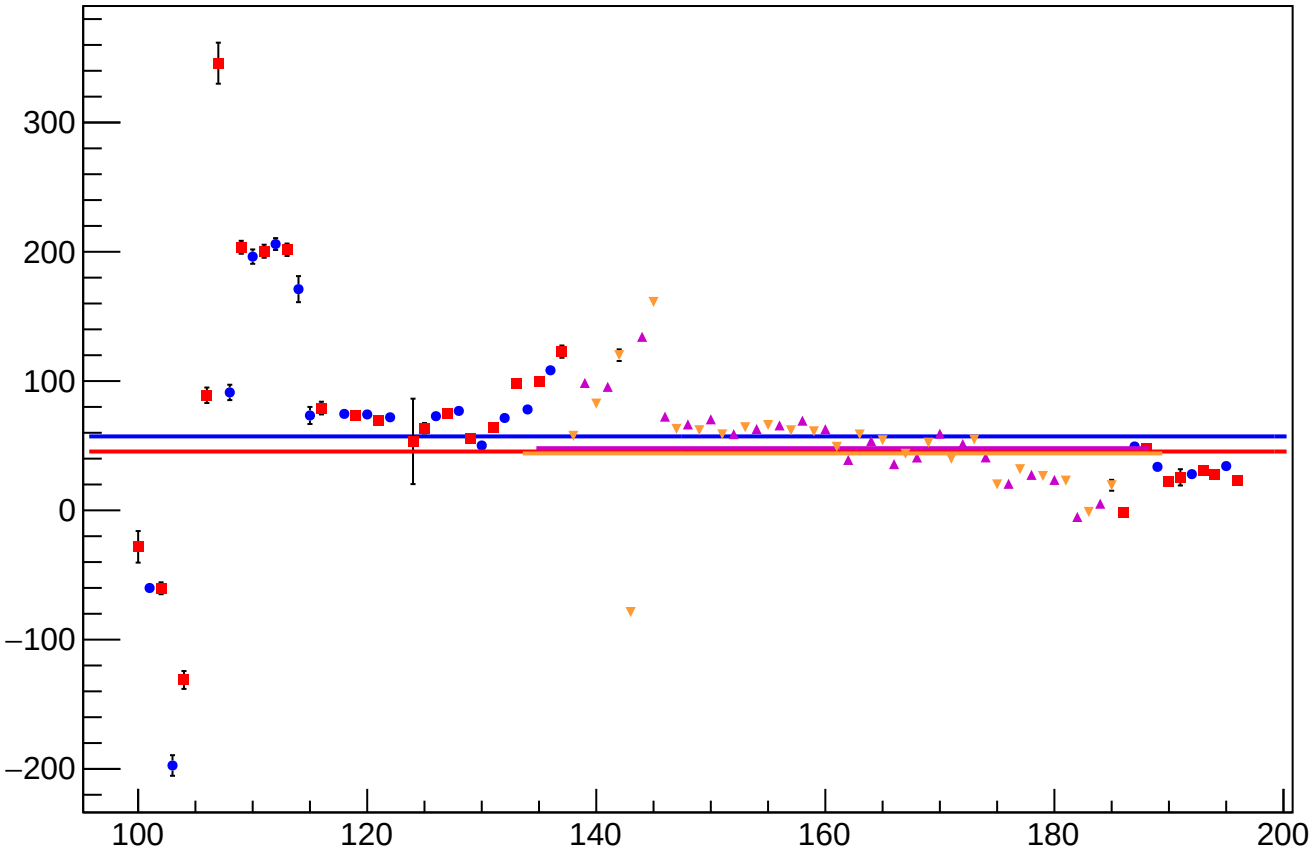
Left: 5.936+/-0.283 $\chi^2$/NDF: 832.9/47

Right: 13.973+/-0.489 $\chi^2$/NDF: 1034.3/45

In: 8.464+/-0.356 $\chi^2$/NDF:1015.4/42

Out: 7.493+/-0.339 $\chi^2$/NDF:1050.0/50

All: 7.955+/-0.245 $\chi^2$/NDF: 2069.3/93




Right In: 57.196+/-0.694 $\chi^2$/NDF: 5410.1/19

Left Out: 44.040+/-0.510 $\chi^2$/NDF:4563.8/24

Right Out: 45.504+/-0.554 $\chi^2$/NDF: 7522.5/25

Left In: 48.076+/-0.521 $\chi^2$/NDF:3376.5/22

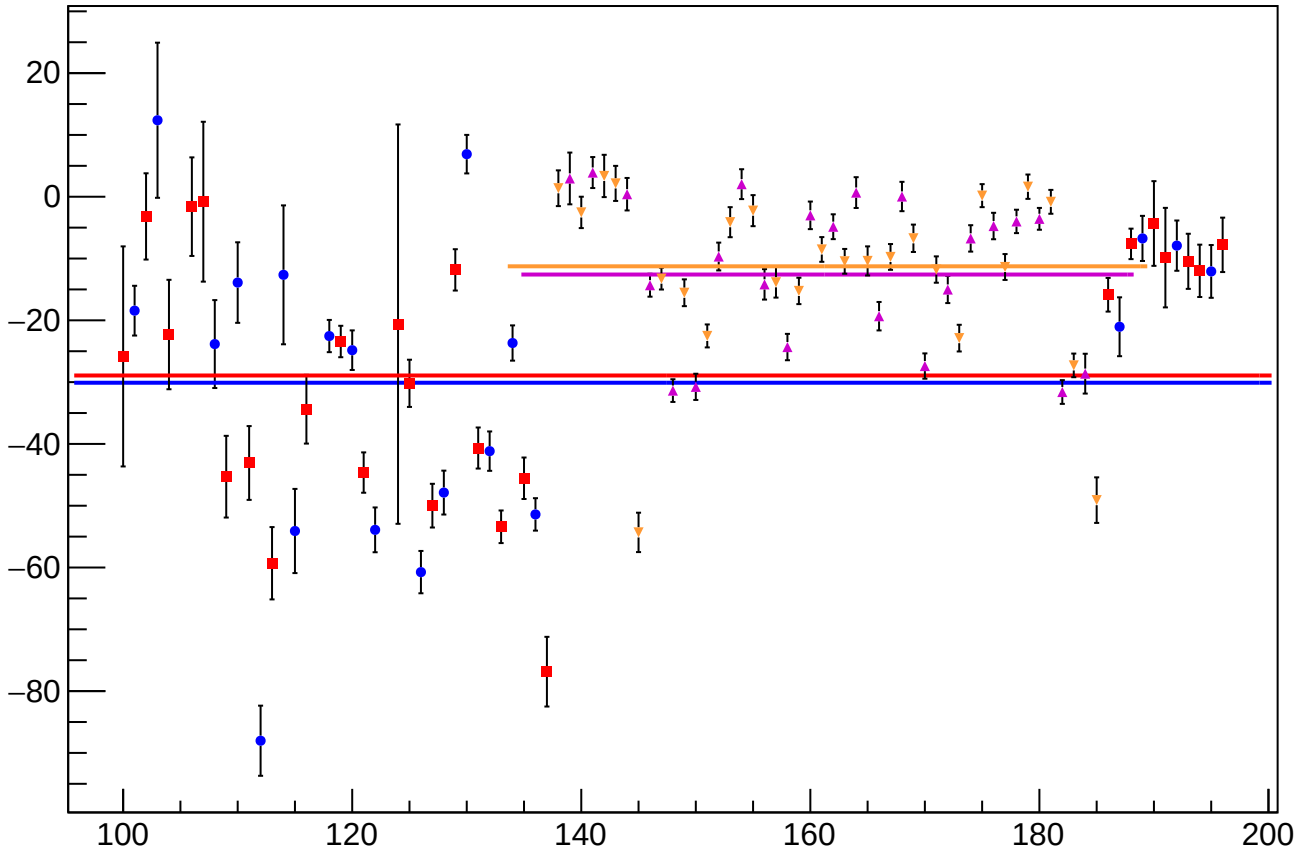
Left: 46.014+/-0.364 $\chi^2$/NDF: 7970.9/47

Right: 50.054+/-0.433 $\chi^2$/NDF: 13105.7/45

In: 51.362+/-0.417 $\chi^2$/NDF:8896.9/42

Out: 44.711+/-0.375 $\chi^2$/NDF:12090.1/50

All: 47.689+/-0.279 $\chi^2$/NDF: 21127.6/93




Right In: -30.099+/-0.857 $\chi^2$/NDF: 621.1/19

Left Out: -11.260+/-0.445 $\chi^2$/NDF:643.3/24

Right Out: -28.926+/-0.815 $\chi^2$/NDF: 527.6/25

Left In: -12.589+/-0.459 $\chi^2$/NDF:671.8/22

Left: -11.904+/-0.319 $\chi^2$/NDF: 1319.4/47

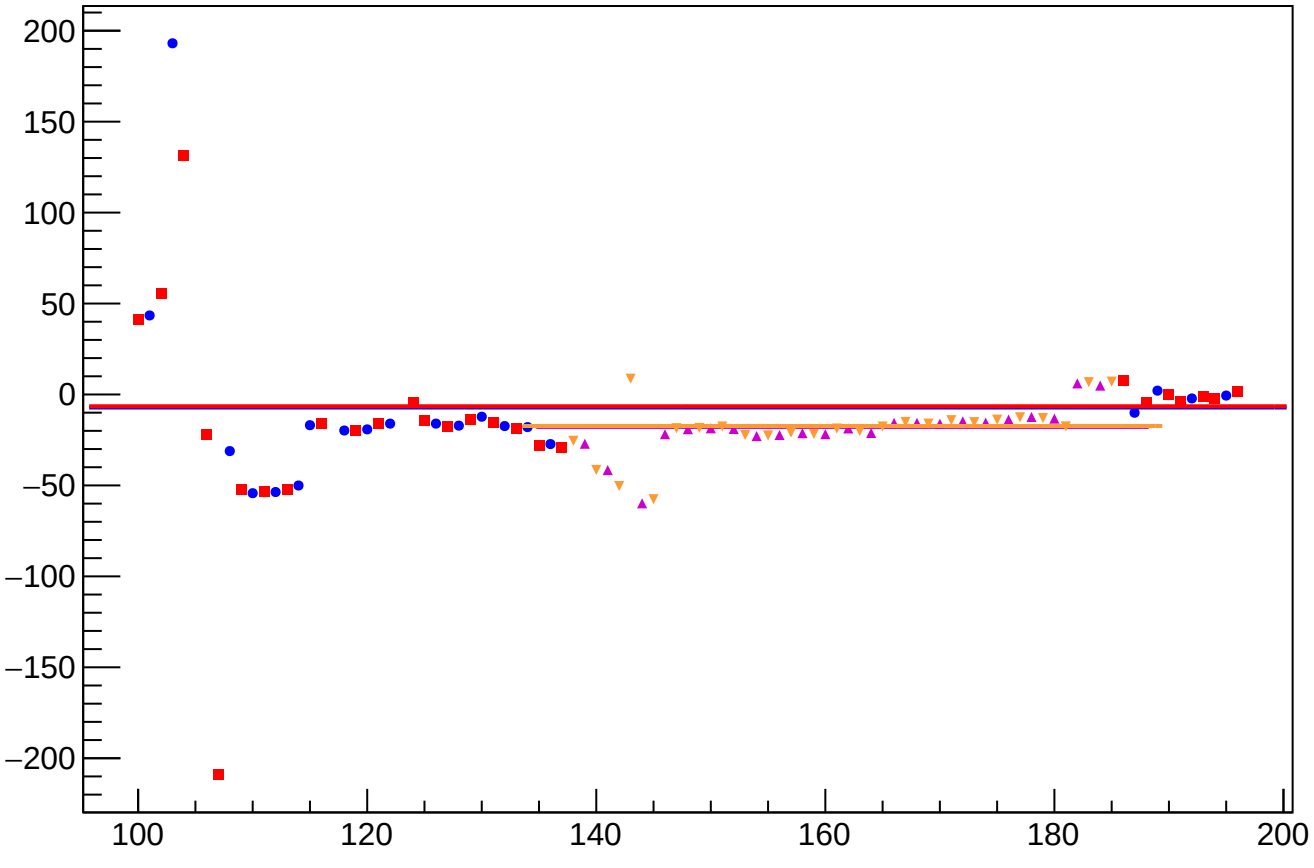
Right: -29.483+/-0.591 $\chi^2$/NDF: 1149.7/45

In: -16.489+/-0.405 $\chi^2$/NDF:1617.3/42

Out: -15.316+/-0.390 $\chi^2$/NDF:1532.9/50

All: -15.882+/-0.281 $\chi^2$/NDF: 3154.5/93

# reg_asym_atl1_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -7.159+/-0.046 $\chi^2$/NDF: 533034.4/19

Left Out: -17.330+/-0.020 $\chi^2$/NDF:347790.9/24

Right Out: -6.474+/-0.042 $\chi^2$/NDF: 473593.0/25

Left In: -17.829+/-0.020 $\chi^2$/NDF:267426.0/22

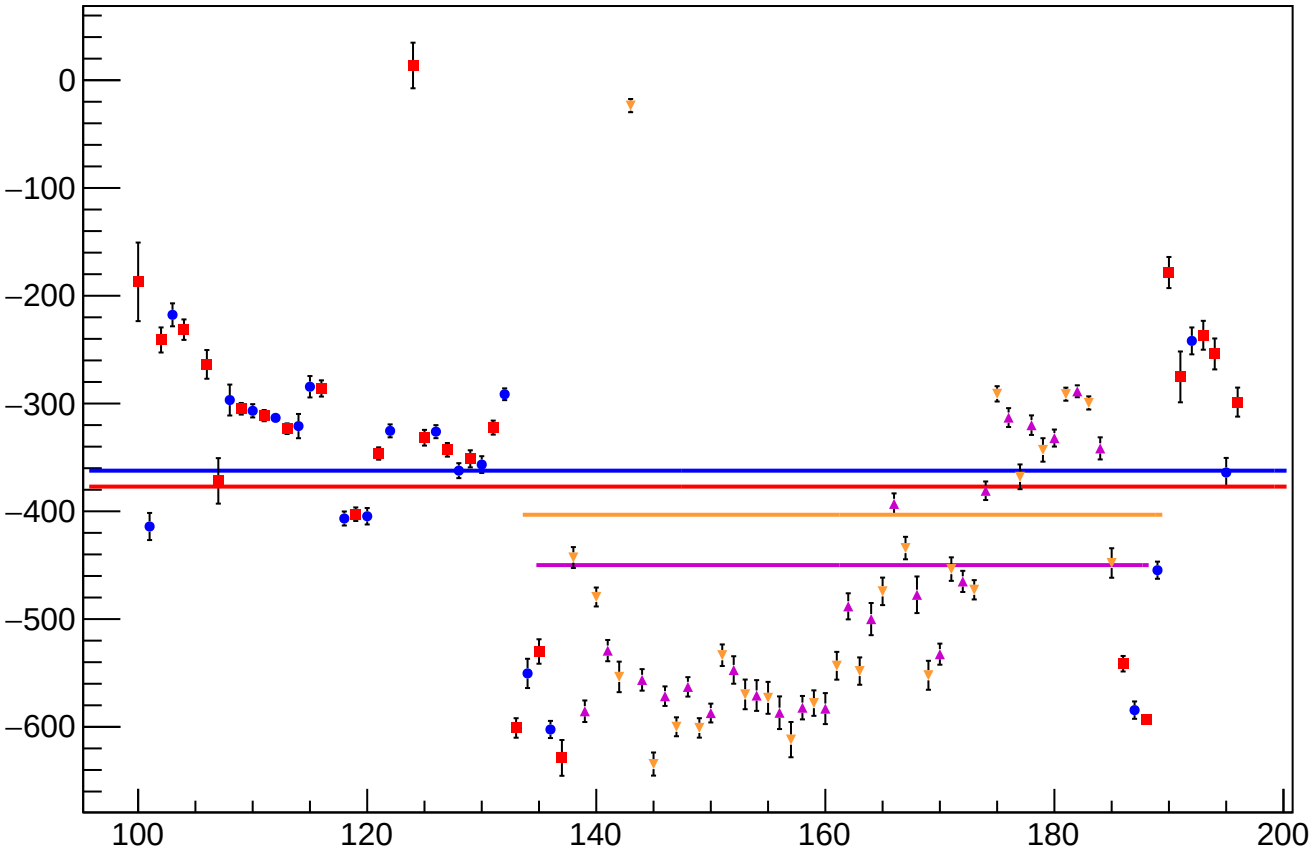
Left: -17.576+/-0.014 $\chi^2$/NDF: 615524.8/47

Right: -6.792+/-0.031 $\chi^2$/NDF: 1006748.7/45

In: -16.061+/-0.019 $\chi^2$/NDF:846288.3/42

Out: -15.361+/-0.018 $\chi^2$/NDF:874994.0/50

All: -15.702+/-0.013 $\chi^2$/NDF: 1722013.0/93




Right In: -362.289+/-1.706 $\chi^2$/NDF: 2902.1/19

Left Out: -403.195+/-1.928 $\chi^2$/NDF:7750.3/24

Right Out: -377.069+/-1.545 $\chi^2$/NDF: 6110.9/25

Left In: -449.912+/-2.043 $\chi^2$/NDF:3218.9/22

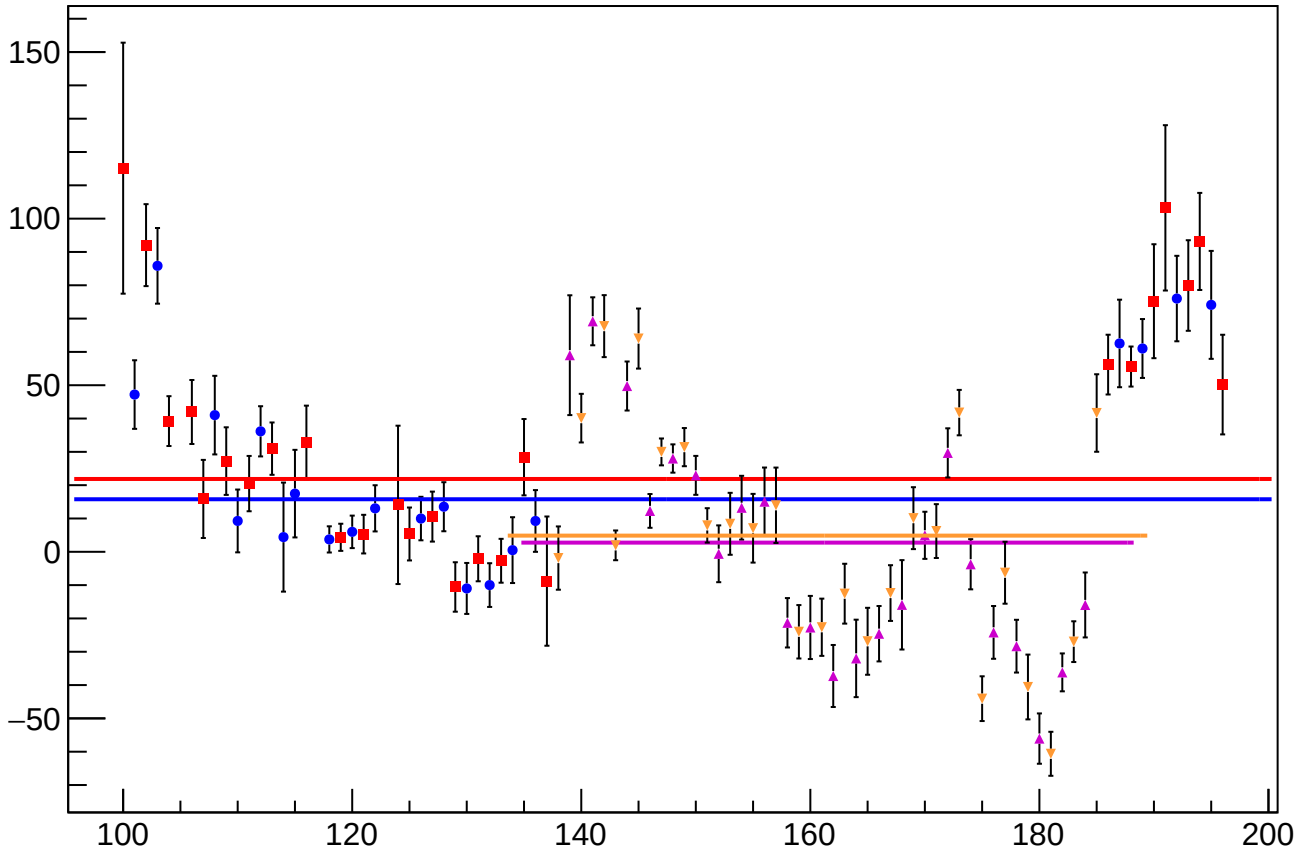
Left: -425.194+/-1.402 $\chi^2$/NDF: 11245.8/47

Right: -370.412+/-1.145 $\chi^2$/NDF: 9054.2/45

In: -398.294+/-1.310 $\chi^2$/NDF:7204.5/42

Out: -387.286+/-1.205 $\chi^2$/NDF:13973.0/50

All: -392.334+/-0.887 $\chi^2$/NDF: 21215.7/93




Right In: 15.773+/-1.760 $\chi^2$/NDF: 179.2/19

Left Out: 4.858+/-1.447 $\chi^2$/NDF:457.2/24

Right Out: 21.861+/-1.689 $\chi^2$/NDF: 245.6/25

Left In: 2.756+/-1.554 $\chi^2$/NDF:399.6/22

Left: 3.882+/-1.059 $\chi^2$/NDF: 857.8/47

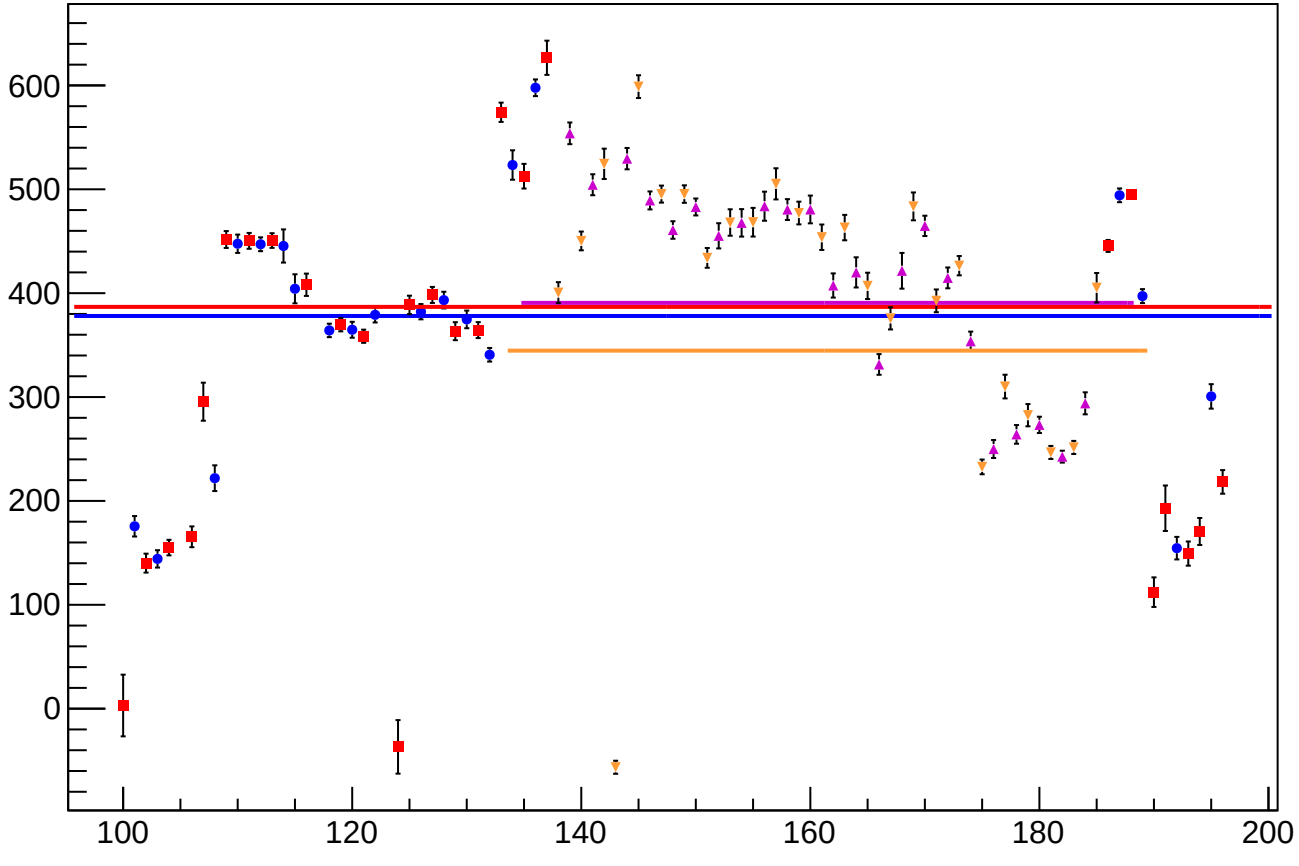
Right: 18.942+/-1.218 $\chi^2$/NDF: 431.0/45

In: 8.461+/-1.165 $\chi^2$/NDF:609.5/42

Out: 12.055+/-1.099 $\chi^2$/NDF:761.2/50

All: 10.363+/-0.799 $\chi^2$/NDF: 1375.8/93

# reg_asym_atl2_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 378.044+/-1.868 $\chi^2$/NDF: 3233.8/19

Left Out: 344.680+/-1.924 $\chi^2$/NDF:7278.2/24

Right Out: 386.806+/-1.622 $\chi^2$/NDF: 6087.1/25

Left In: 390.672+/-2.029 $\chi^2$/NDF:2672.8/22

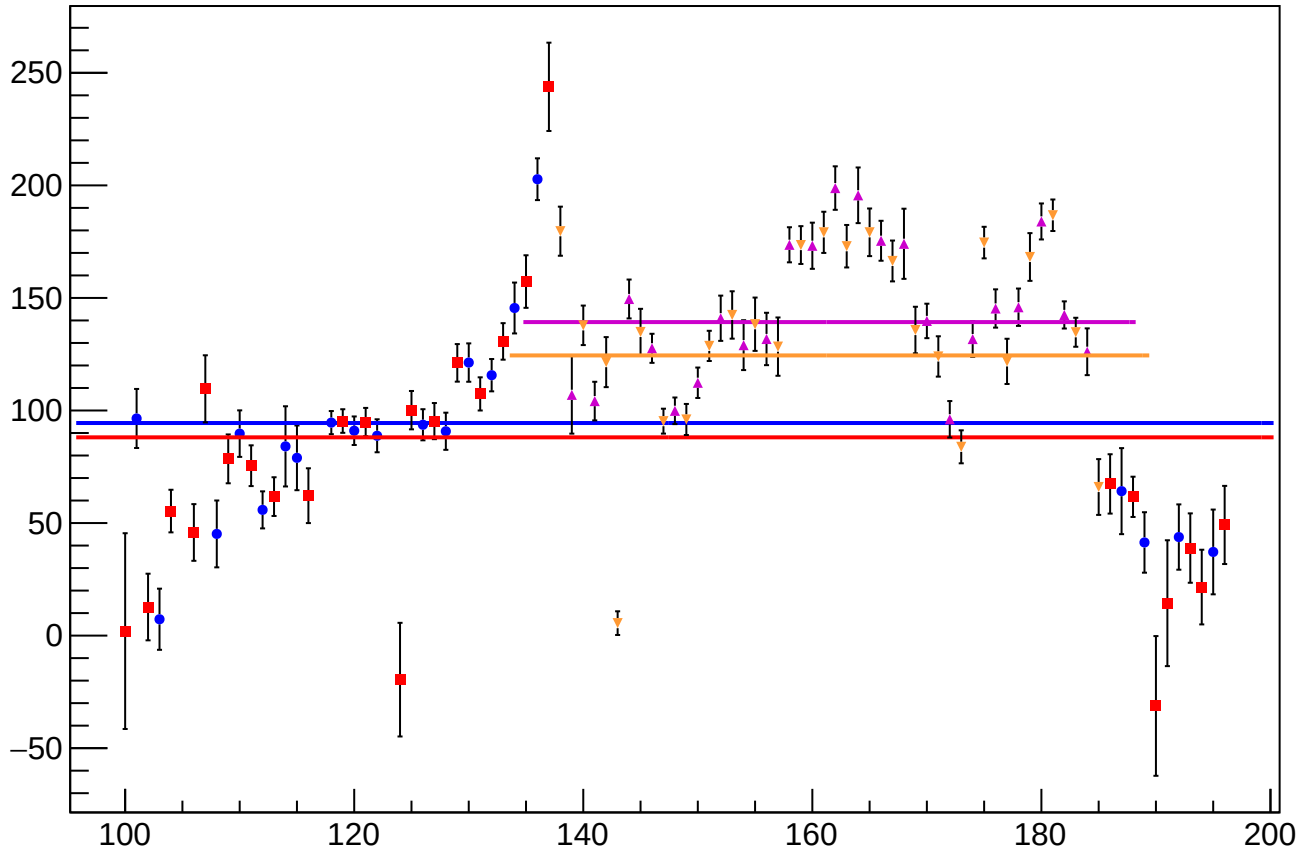
Left: 366.451+/-1.396 $\chi^2$/NDF: 10221.5/47

Right: 383.037+/-1.225 $\chi^2$/NDF: 9333.5/45

In: 383.834+/-1.374 $\chi^2$/NDF:5927.6/42

Out: 369.303+/-1.240 $\chi^2$/NDF:13645.4/50

All: 375.826+/-0.921 $\chi^2$/NDF: 19634.7/93




Right In: 94.438+/-2.070 $\chi^2$/NDF: 291.8/19

Left Out: 124.466+/-1.662 $\chi^2$/NDF:937.6/24

Right Out: 88.075+/-1.998 $\chi^2$/NDF: 308.5/25

Left In: 139.274+/-1.769 $\chi^2$/NDF:260.9/22

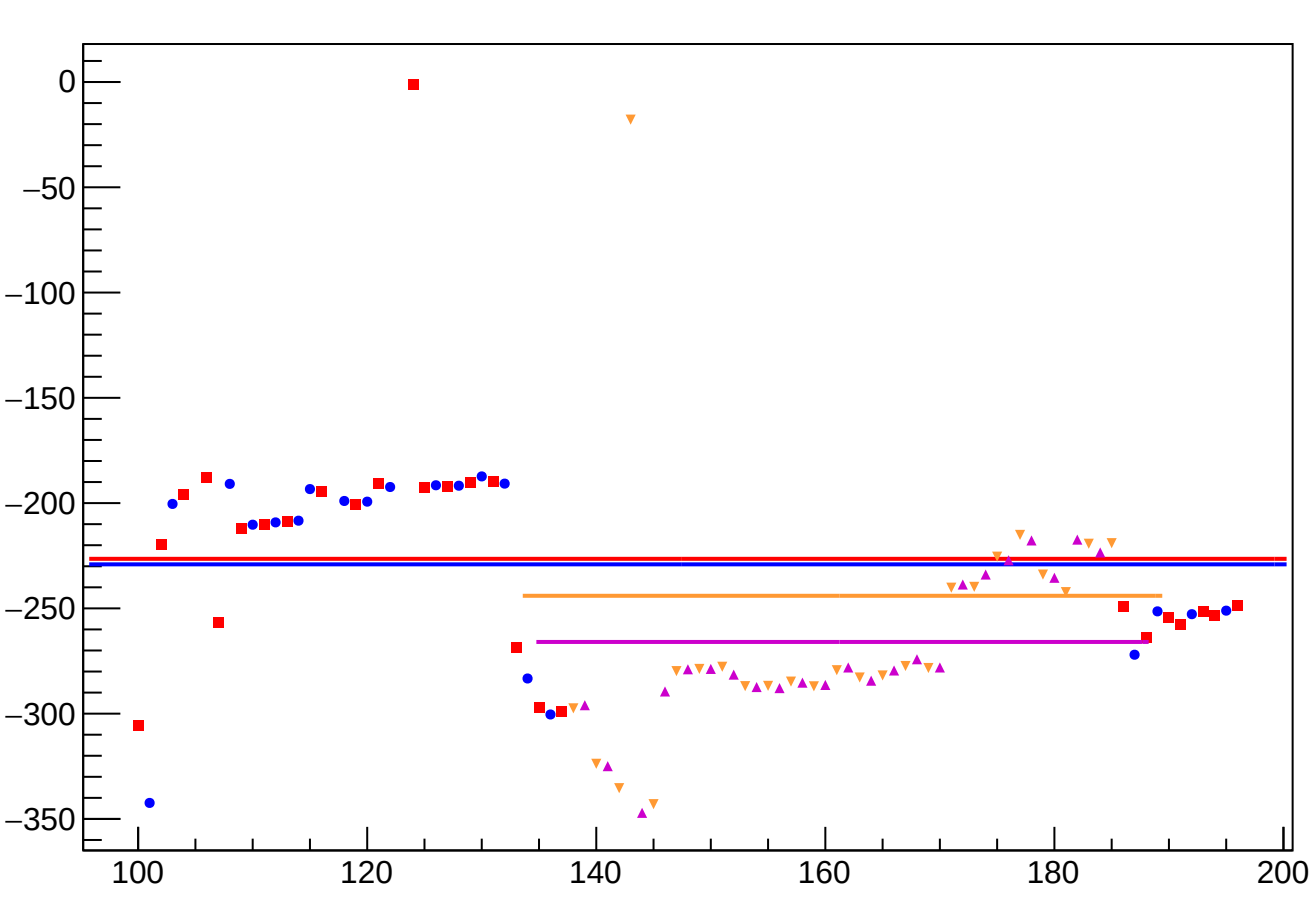
Left: 131.406+/-1.211 $\chi^2$/NDF: 1235.7/47

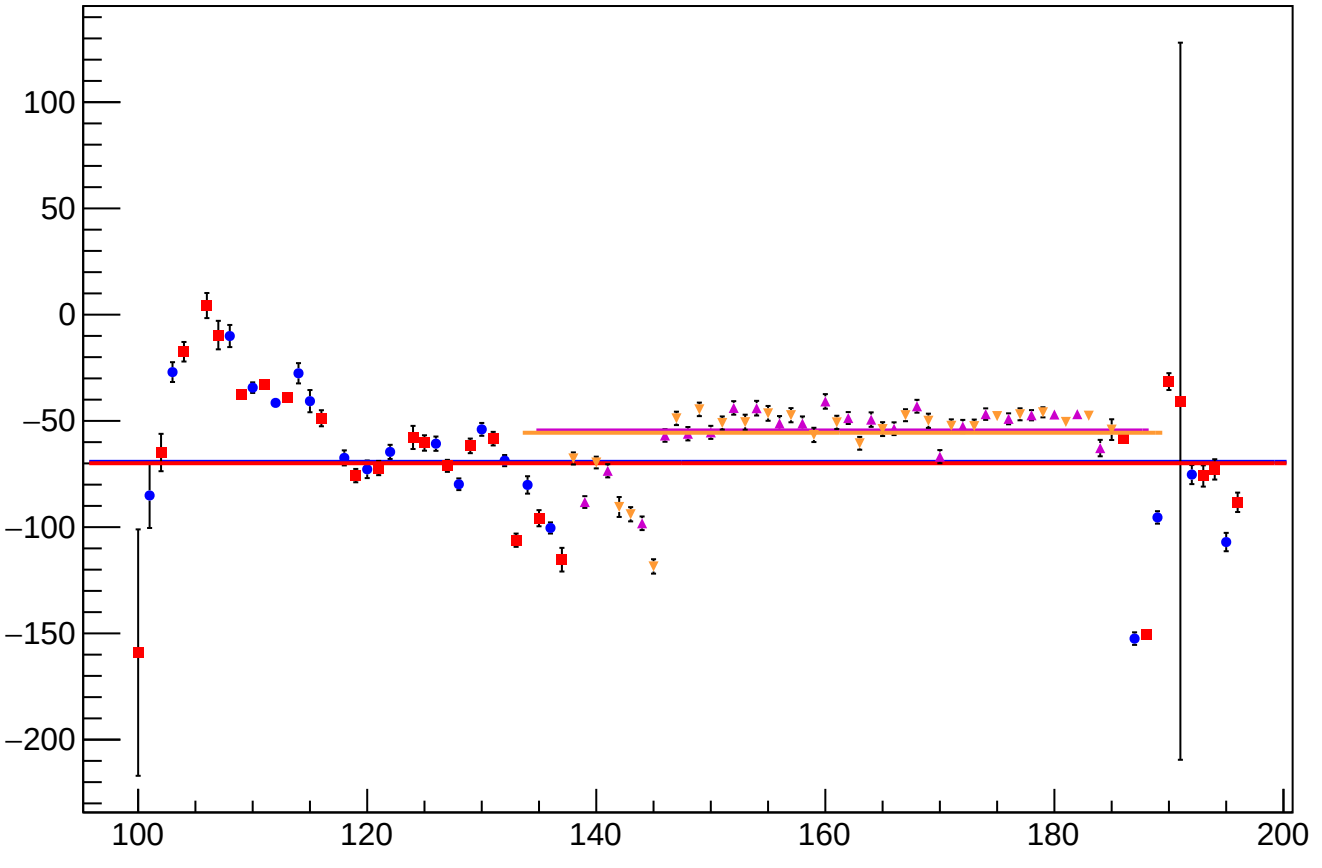
Right: 91.144+/-1.438 $\chi^2$/NDF: 605.2/45

In: 120.346+/-1.345 $\chi^2$/NDF:823.8/42

Out: 109.588+/-1.278 $\chi^2$/NDF:1442.1/50

All: 114.691+/-0.926 $\chi^2$/NDF: 2299.5/93


reg_asym_atl2_diff_bpm12X_slope vs Slug, Sign Corrected
0
−50
−100
−150
−200
−250
−300
−350
100
120
140
160
180
200
Right In: -229.090+/-0.125 χ²/NDF: 130314.8/19
Left Out: -244.021+/-0.077 χ²/NDF:997959.6/24
Right Out: -226.463+/-0.115 χ²/NDF: 105309.1/25
Left In: -265.945+/-0.081 χ²/NDF:169943.2/22
Left: -254.542+/-0.056 χ²/NDF: 1206480.5/47
Right: -227.661+/-0.084 χ²/NDF: 235863.8/45
In: -255.148+/-0.068 χ²/NDF:361660.9/42
Out: -238.523+/-0.064 χ²/NDF:1119409.5/50
All: -246.382+/-0.047 χ²/NDF: 1512876.2/93




Right In: -69.264+/-0.748 $\chi^2$/NDF: 1829.1/19

Left Out: -55.575+/-0.590 $\chi^2$/NDF:686.5/24

Right Out: -69.916+/-0.639 $\chi^2$/NDF: 3730.6/25

Left In: -54.499+/-0.606 $\chi^2$/NDF:500.4/22

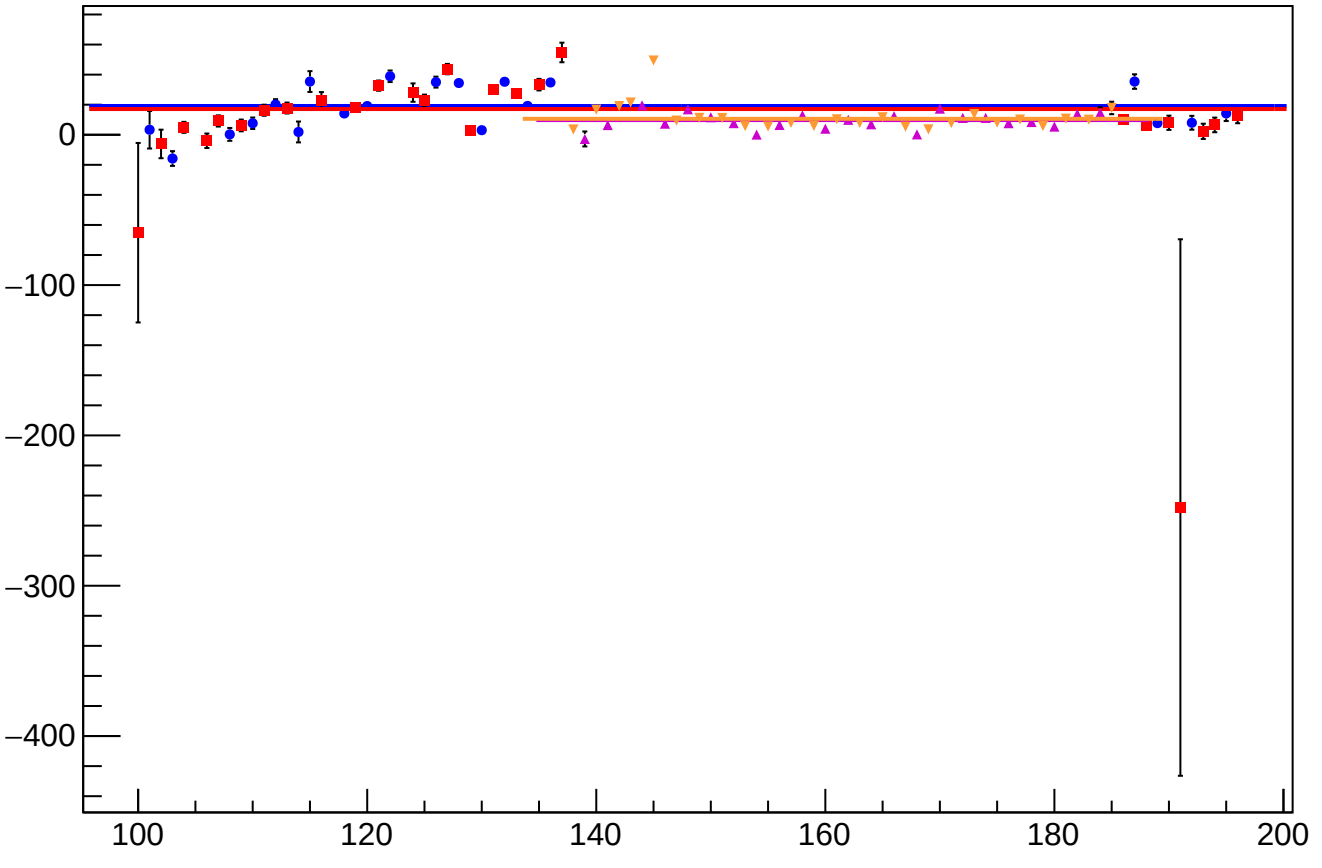
Left: -55.052+/-0.423 $\chi^2$/NDF: 1188.5/47

Right: -69.641+/-0.486 $\chi^2$/NDF: 5560.1/45

In: -60.355+/-0.471 $\chi^2$/NDF:2564.8/42

Out: -62.175+/-0.434 $\chi^2$/NDF:4688.9/50

All: -61.340+/-0.319 $\chi^2$/NDF: 7261.8/93




Right In: 19.115+/-0.802 $\chi^2$/NDF: 278.5/19

Left Out: 10.603+/-0.449 $\chi^2$/NDF:255.2/24

Right Out: 17.108+/-0.716 $\chi^2$/NDF: 293.5/25

Left In: 9.765+/-0.467 $\chi^2$/NDF:121.0/22

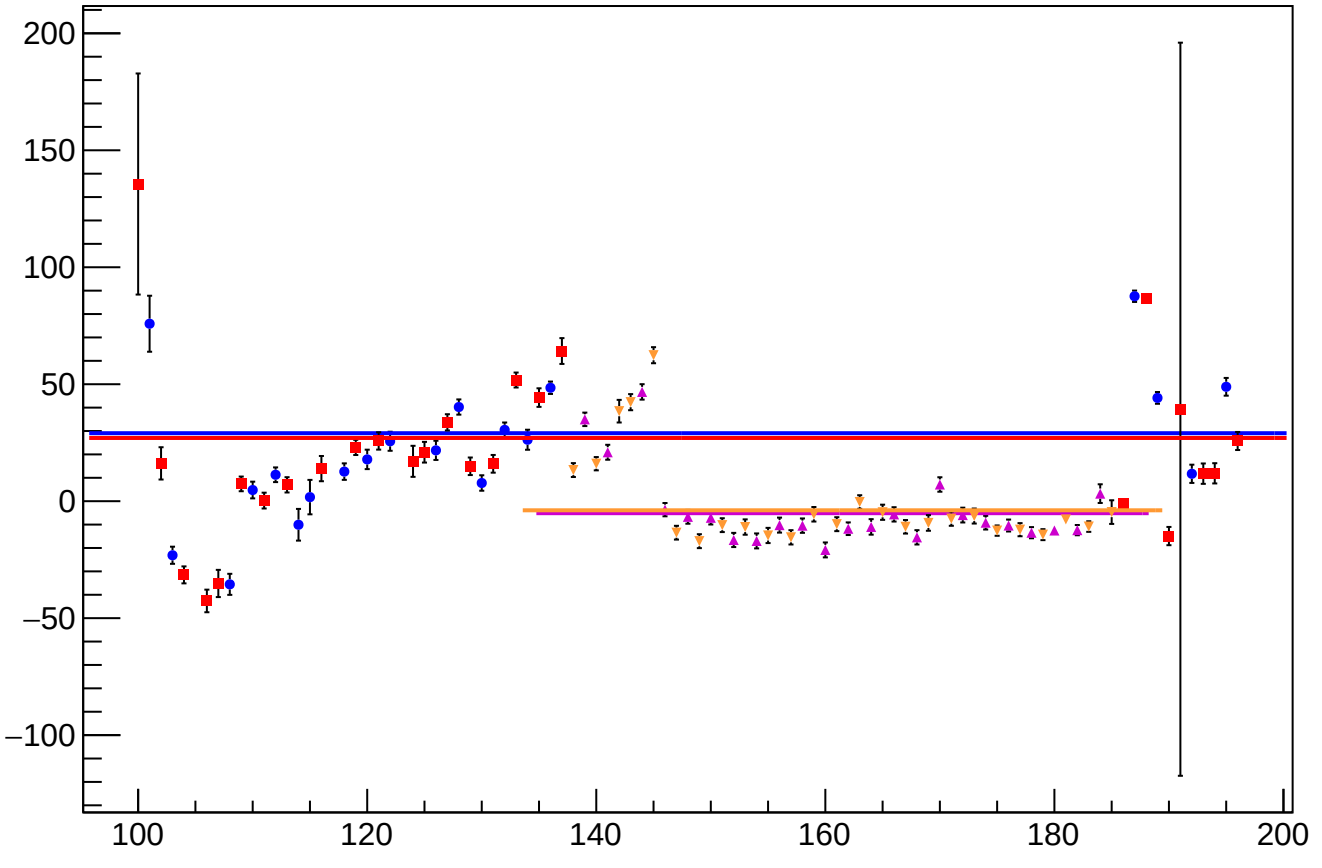
Left: 10.200+/-0.324 $\chi^2$/NDF: 377.8/47

Right: 17.998+/-0.534 $\chi^2$/NDF: 575.5/45

In: 12.130+/-0.404 $\chi^2$/NDF:501.0/42

Out: 12.440+/-0.381 $\chi^2$/NDF:607.9/50

All: 12.294+/-0.277 $\chi^2$/NDF: 1109.1/93




Right In: 29.062+/-0.802 $\chi^2$/NDF: 1354.4/19

Left Out: -3.895+/-0.585 $\chi^2$/NDF:850.2/24

Right Out: 27.029+/-0.646 $\chi^2$/NDF: 3279.3/25

Left In: -5.124+/-0.600 $\chi^2$/NDF:649.7/22

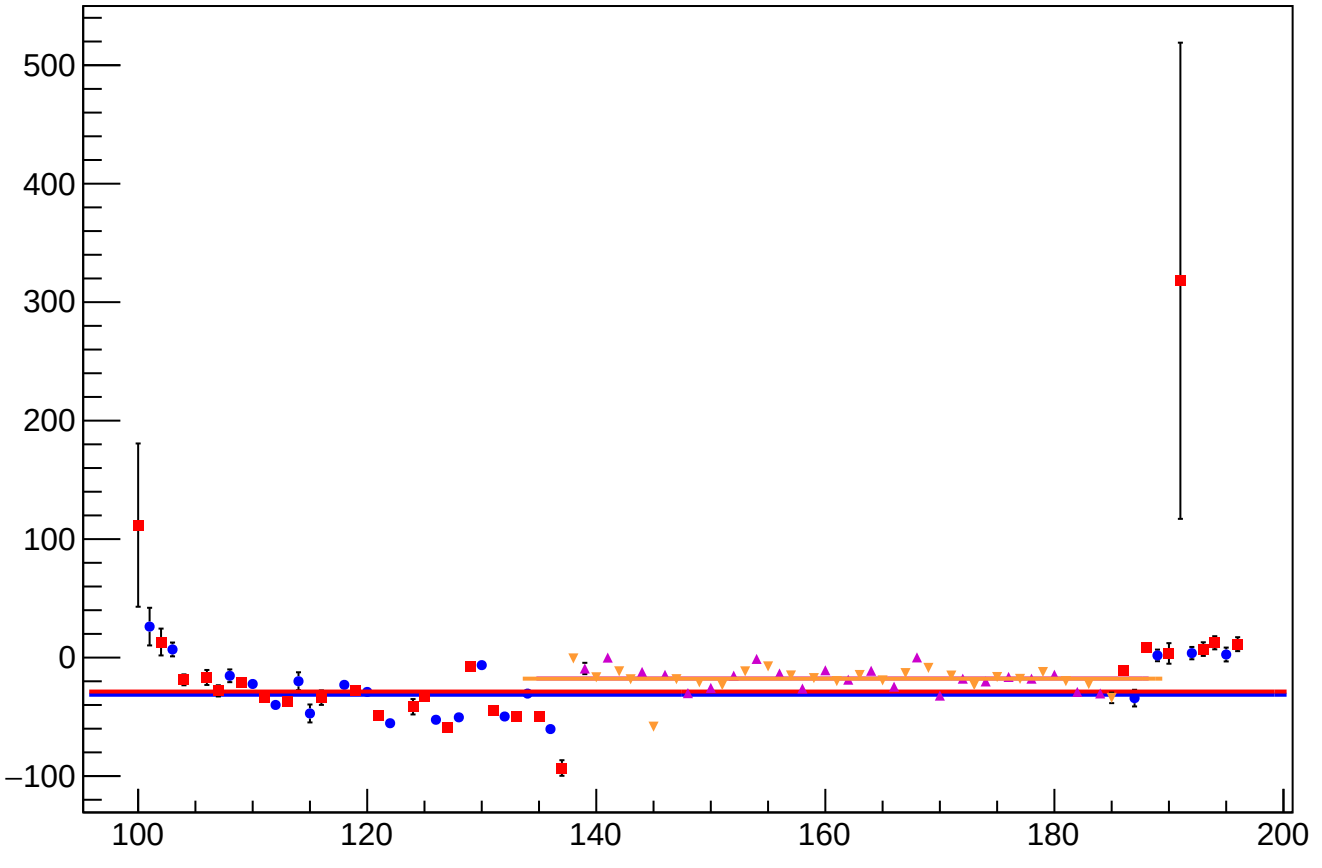
Left: -4.494+/-0.419 $\chi^2$/NDF: 1502.0/47

Right: 27.830+/-0.503 $\chi^2$/NDF: 4637.6/45

In: 7.141+/-0.480 $\chi^2$/NDF:3170.4/42

Out: 10.031+/-0.434 $\chi^2$/NDF:5387.6/50

All: 8.733+/-0.322 $\chi^2$/NDF: 8577.9/93




Right In: -31.363+/-0.934 $\chi^2$/NDF: 484.4/19

Left Out: -17.776+/-0.509 $\chi^2$/NDF:251.6/24

Right Out: -28.656+/-0.863 $\chi^2$/NDF: 673.1/25

Left In: -17.643+/-0.526 $\chi^2$/NDF:285.9/22

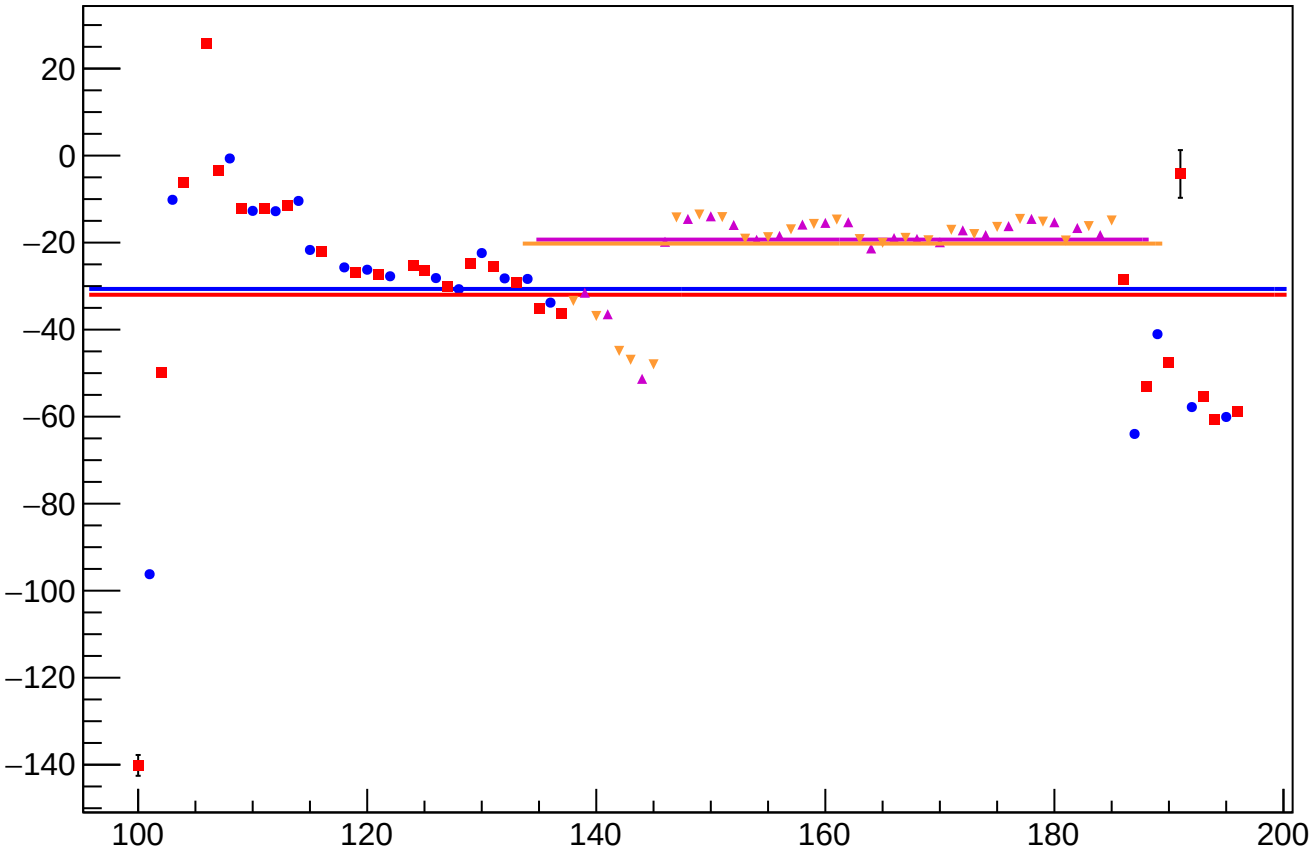
Left: -17.712+/-0.366 $\chi^2$/NDF: 537.5/47

Right: -29.903+/-0.634 $\chi^2$/NDF: 1162.0/45

In: -20.949+/-0.458 $\chi^2$/NDF:934.3/42

Out: -20.584+/-0.438 $\chi^2$/NDF:1042.7/50

All: -20.758+/-0.317 $\chi^2$/NDF: 1977.3/93




Right In: -30.649+/-0.050 $\chi^2$/NDF: 131977.5/19

Left Out: -20.227+/-0.023 $\chi^2$/NDF:147352.7/24

Right Out: -31.986+/-0.047 $\chi^2$/NDF: 216402.0/25

Left In: -19.310+/-0.023 $\chi^2$/NDF:93090.9/22

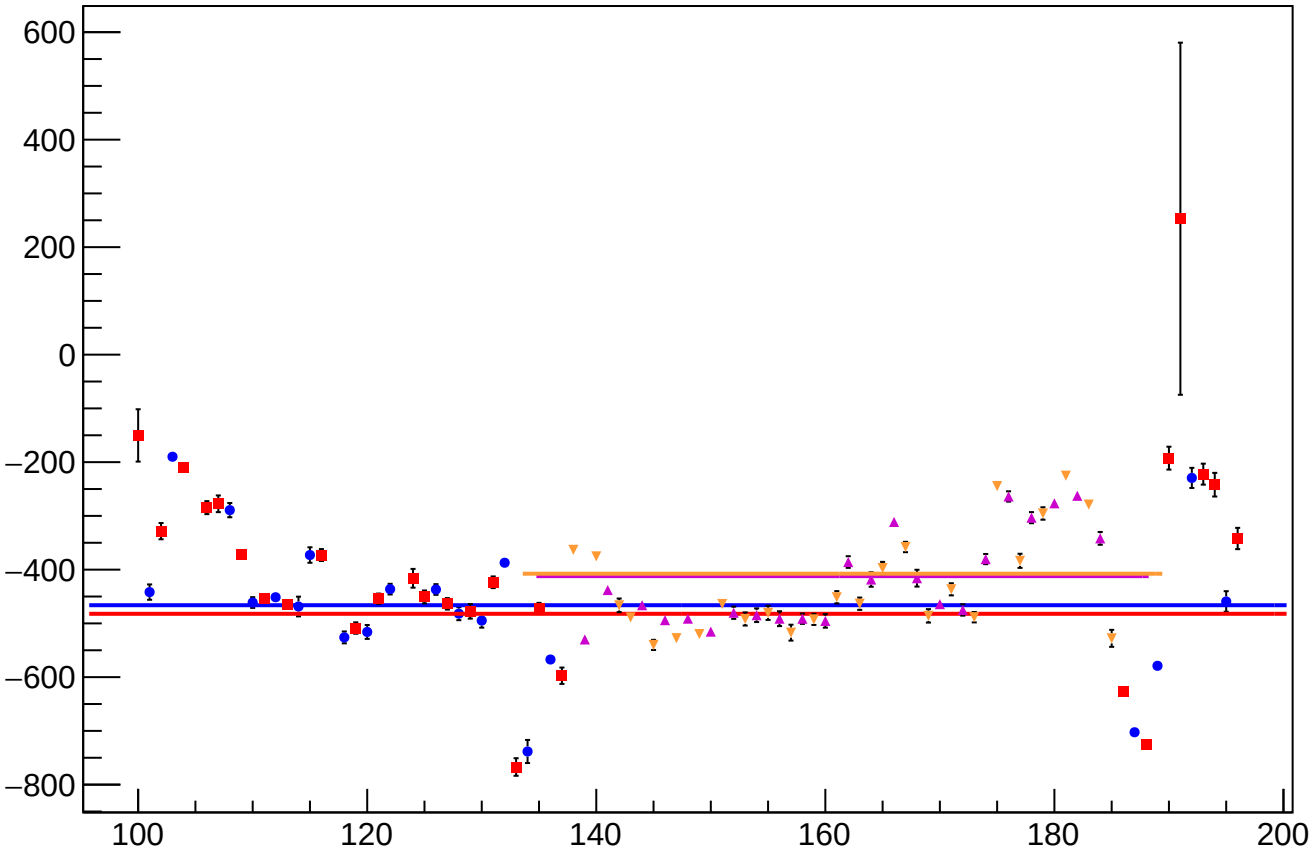
Left: -19.776+/-0.016 $\chi^2$/NDF: 241234.1/47

Right: -31.360+/-0.034 $\chi^2$/NDF: 348755.0/45

In: -21.304+/-0.021 $\chi^2$/NDF:266836.4/42

Out: -22.458+/-0.021 $\chi^2$/NDF:413984.5/50

All: -21.896+/-0.015 $\chi^2$/NDF: 682354.2/93




Right In: -466.175+/-2.442 $\chi^2$/NDF: 2622.7/19

Left Out: -407.554+/-1.951 $\chi^2$/NDF:2872.6/24

Right Out: -482.156+/-2.106 $\chi^2$/NDF: 5767.1/25

Left In: -412.102+/-2.008 $\chi^2$/NDF:2182.3/22

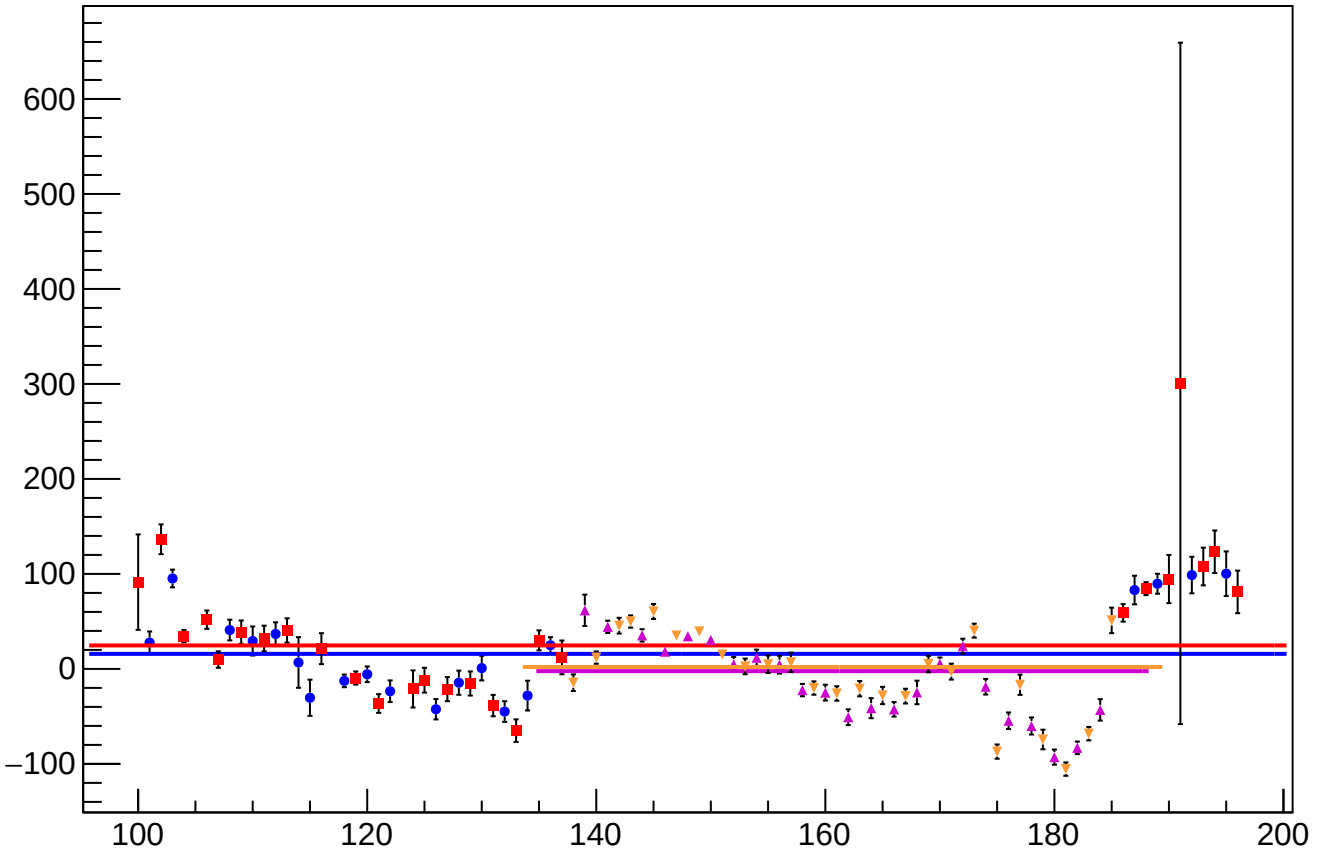
Left: -409.762+/-1.399 $\chi^2$/NDF: 5057.5/47

Right: -475.338+/-1.595 $\chi^2$/NDF: 8414.4/45

In: -433.919+/-1.551 $\chi^2$/NDF:5097.5/42

Out: -442.001+/-1.431 $\chi^2$/NDF:9314.8/50

All: -438.284+/-1.052 $\chi^2$/NDF: 14427.0/93




Right In: 15.829+/-2.562 $\chi^2$/NDF: 302.5/19

Left Out: 2.035+/-1.426 $\chi^2$/NDF:910.7/24

Right Out: 24.701+/-2.268 $\chi^2$/NDF: 399.7/25

Left In: -2.365+/-1.482 $\chi^2$/NDF:733.4/22

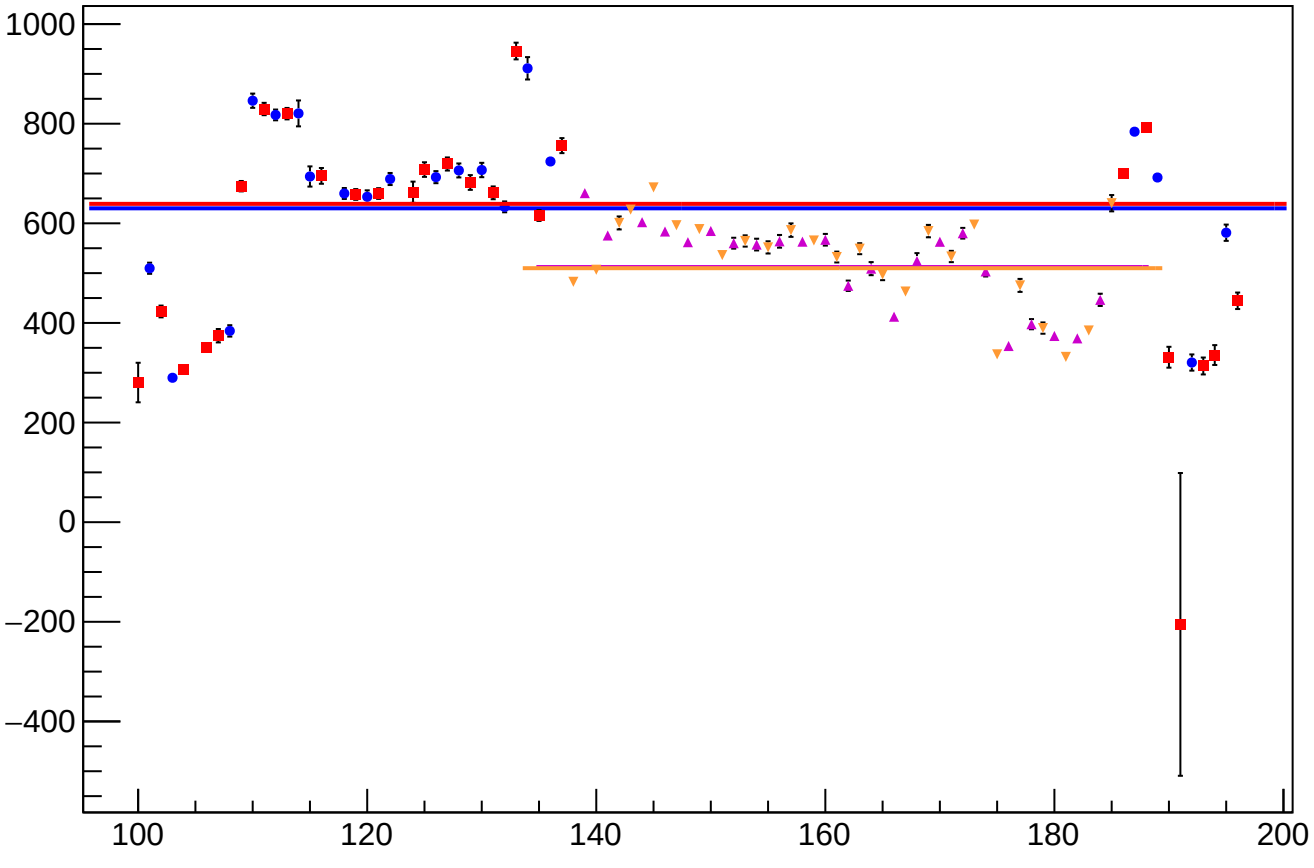
Left: -0.080+/-1.028 $\chi^2$/NDF: 1648.7/47

Right: 20.803+/-1.698 $\chi^2$/NDF: 708.9/45

In: 2.199+/-1.283 $\chi^2$/NDF:1073.7/42

Out: 8.456+/-1.207 $\chi^2$/NDF:1382.0/50

All: 5.518+/-0.879 $\chi^2$/NDF: 2468.3/93




Right In: 630.078+/-2.493 $\chi^2$/NDF: 4778.8/19

Left Out: 509.912+/-1.936 $\chi^2$/NDF:2662.6/24

Right Out: 639.073+/-2.061 $\chi^2$/NDF: 7870.5/25

Left In: 512.270+/-1.984 $\chi^2$/NDF:2087.6/22

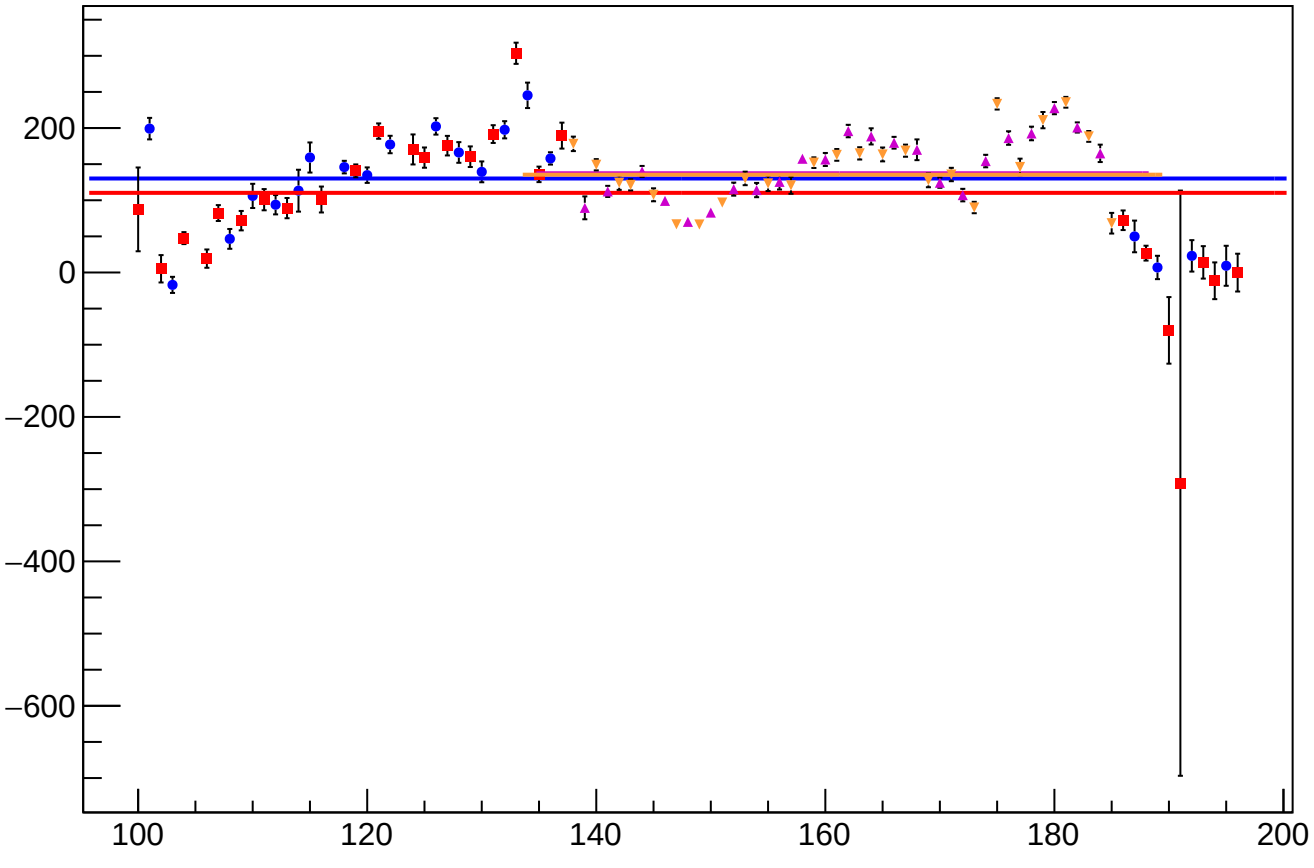
Left: 511.062+/-1.385 $\chi^2$/NDF: 4751.0/47

Right: 635.421+/-1.589 $\chi^2$/NDF: 12657.1/45

In: 557.936+/-1.552 $\chi^2$/NDF:8233.4/42

Out: 570.433+/-1.411 $\chi^2$/NDF:12619.5/50

All: 564.780+/-1.044 $\chi^2$/NDF: 20888.4/93




Right In: 130.129+/-3.015 $\chi^2$/NDF: 510.5/19

Left Out: 135.407+/-1.649 $\chi^2$/NDF:923.2/24

Right Out: 110.257+/-2.741 $\chi^2$/NDF: 682.9/25

Left In: 137.374+/-1.702 $\chi^2$/NDF:706.0/22

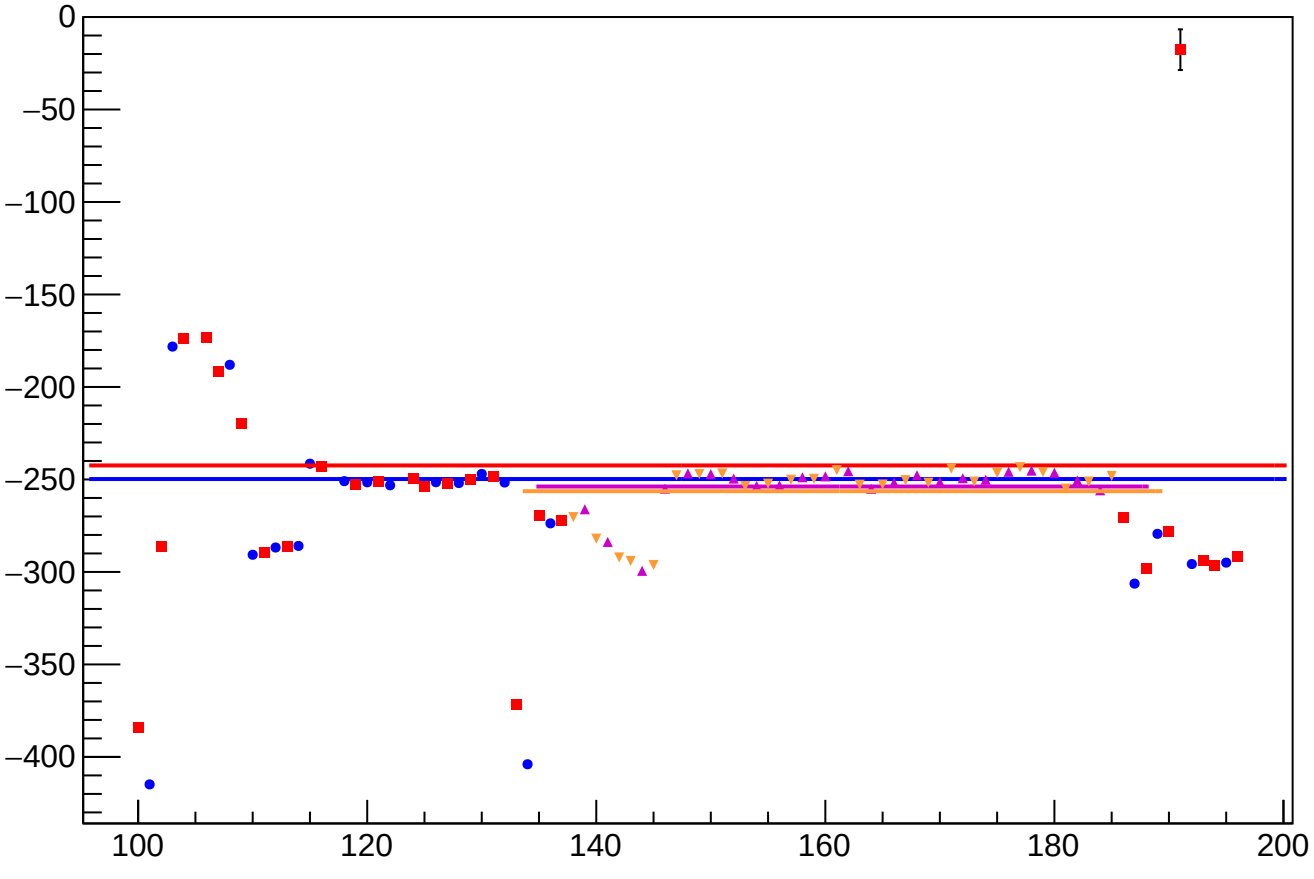
Left: 136.359+/-1.184 $\chi^2$/NDF: 1629.8/47

Right: 119.251+/-2.028 $\chi^2$/NDF: 1217.1/45

In: 135.622+/-1.482 $\chi^2$/NDF:1220.8/42

Out: 128.726+/-1.413 $\chi^2$/NDF:1667.8/50

All: 132.009+/-1.023 $\chi^2$/NDF: 2900.0/93




Right In: -249.774+/-0.151 $\chi^2$/NDF: 185875.4/19

Left Out: -256.344+/-0.077 $\chi^2$/NDF:39513.4/24

Right Out: -242.419+/-0.141 $\chi^2$/NDF: 134570.8/25

Left In: -253.817+/-0.078 $\chi^2$/NDF:24076.7/22

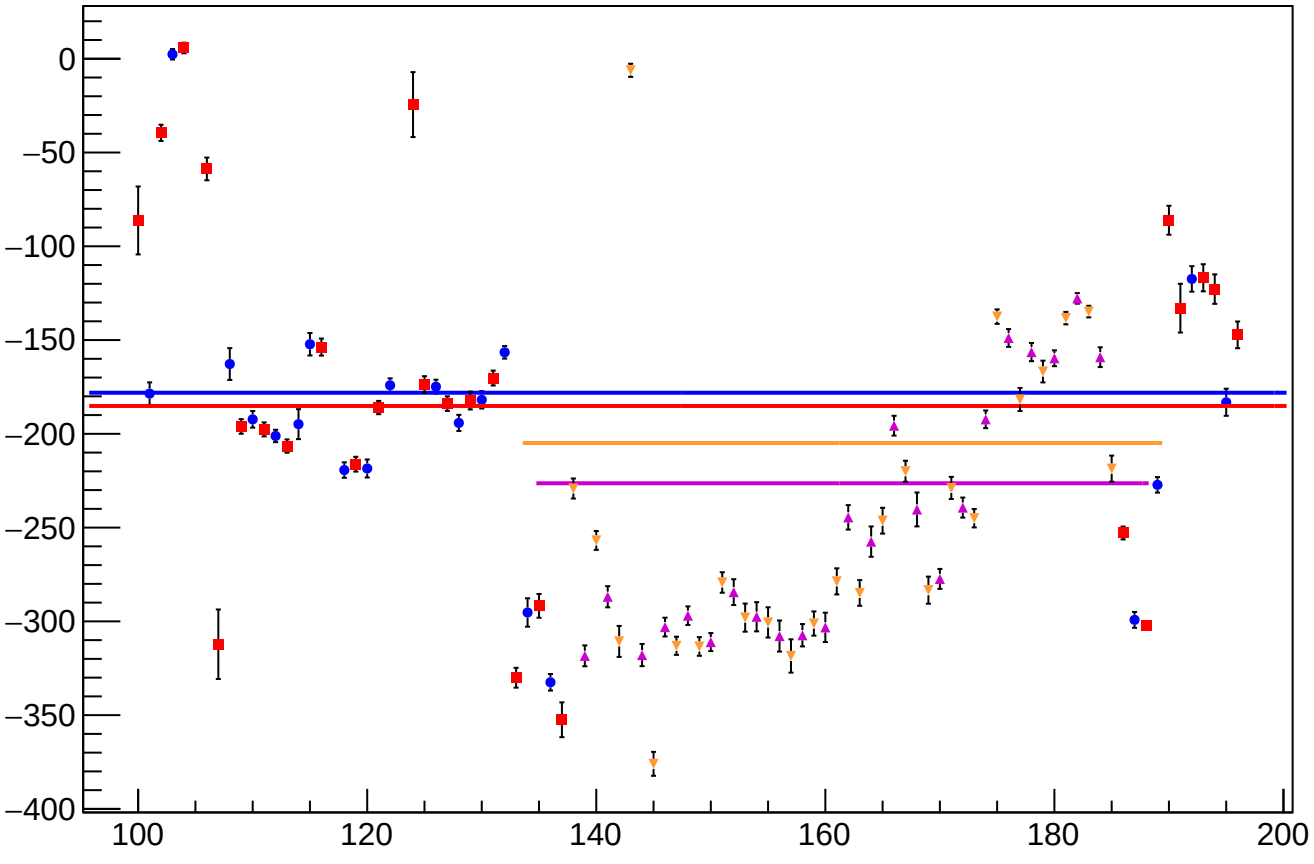
Left: -255.094+/-0.055 $\chi^2$/NDF: 64122.7/47

Right: -245.832+/-0.103 $\chi^2$/NDF: 321711.6/45

In: -252.972+/-0.069 $\chi^2$/NDF:210516.5/42

Out: -253.140+/-0.068 $\chi^2$/NDF:181609.3/50

All: -253.058+/-0.048 $\chi^2$/NDF: 392128.9/93




Right In: -178.081+/-0.990 $\chi^2$/NDF: 7035.0/19

Left Out: -204.891+/-1.052 $\chi^2$/NDF:7826.3/24

Right Out: -185.134+/-0.884 $\chi^2$/NDF: 11211.5/25

Left In: -226.365+/-1.105 $\chi^2$/NDF:4219.0/22

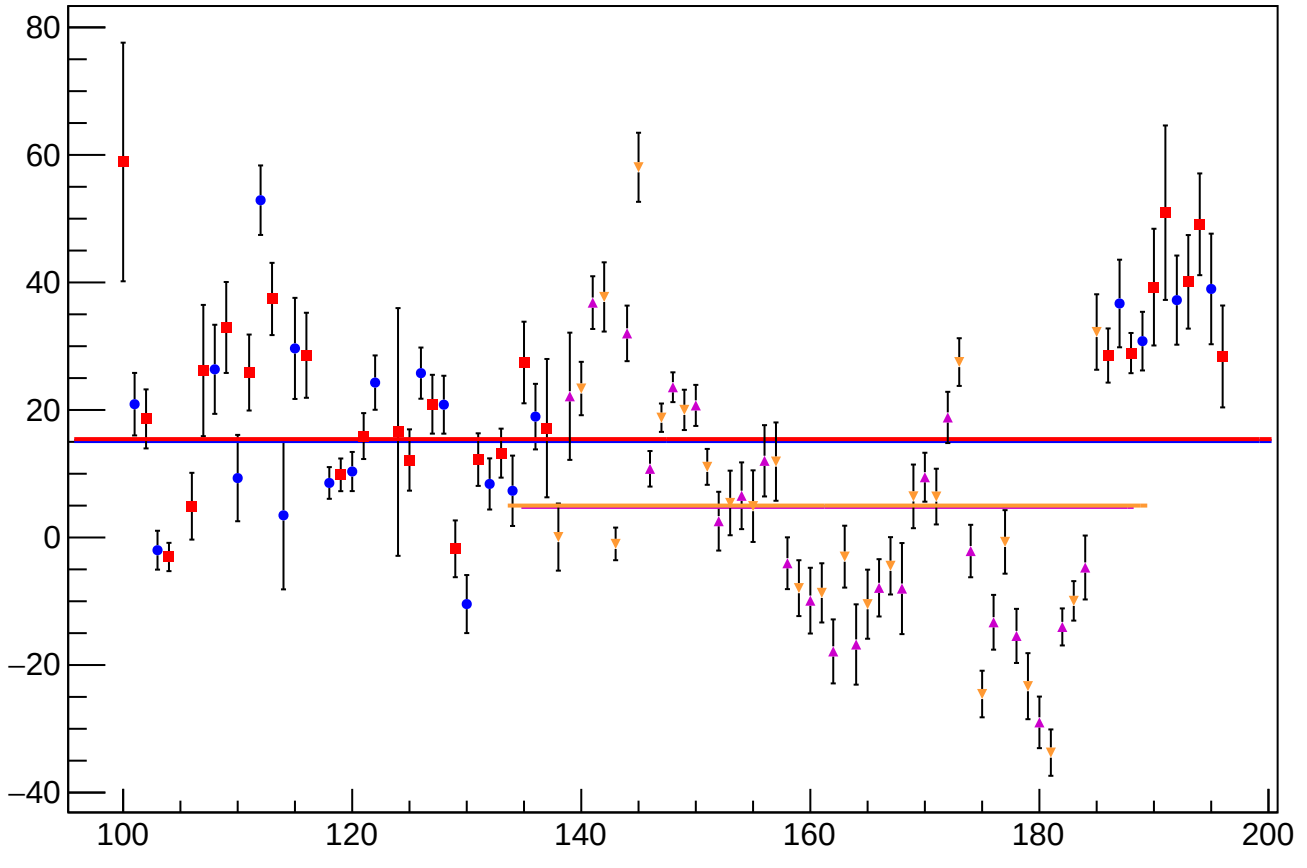
Left: -215.101+/-0.762 $\chi^2$/NDF: 12243.4/47

Right: -182.004+/-0.660 $\chi^2$/NDF: 18274.7/45

In: -199.590+/-0.737 $\chi^2$/NDF:12312.9/42

Out: -193.317+/-0.677 $\chi^2$/NDF:19244.4/50

All: -196.185+/-0.499 $\chi^2$/NDF: 31596.6/93




Right In: 15.123+/-1.018 $\chi^2$/NDF: 187.2/19

Left Out: 5.006+/-0.793 $\chi^2$/NDF:548.5/24

Right Out: 15.432+/-0.930 $\chi^2$/NDF: 207.7/25

Left In: 4.799+/-0.846 $\chi^2$/NDF:426.3/22

Left: 4.909+/-0.579 $\chi^2$/NDF: 974.8/47

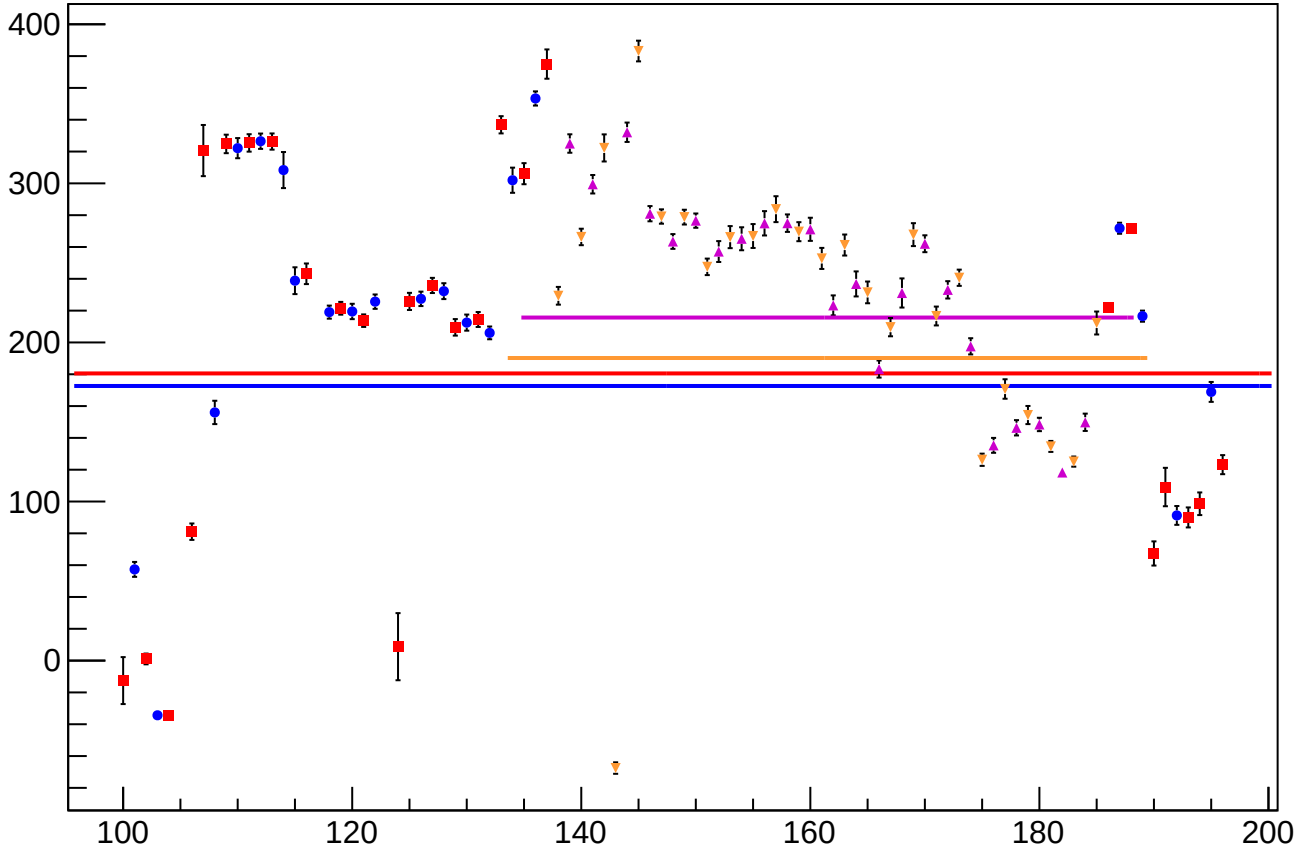
Right: 15.291+/-0.687 $\chi^2$/NDF: 395.0/45

In: 9.019+/-0.651 $\chi^2$/NDF:674.4/42

Out: 9.397+/-0.604 $\chi^2$/NDF:829.0/50

All: 9.222+/-0.443 $\chi^2$/NDF: 1503.5/93

# reg_asym_atl_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 172.633+/-1.005 $\chi^2$/NDF: 15230.0/19

Left Out: 190.219+/-1.050 $\chi^2$/NDF:9384.0/24

Right Out: 180.525+/-0.861 $\chi^2$/NDF: 20433.0/25

Left In: 215.649+/-1.098 $\chi^2$/NDF:3886.0/22

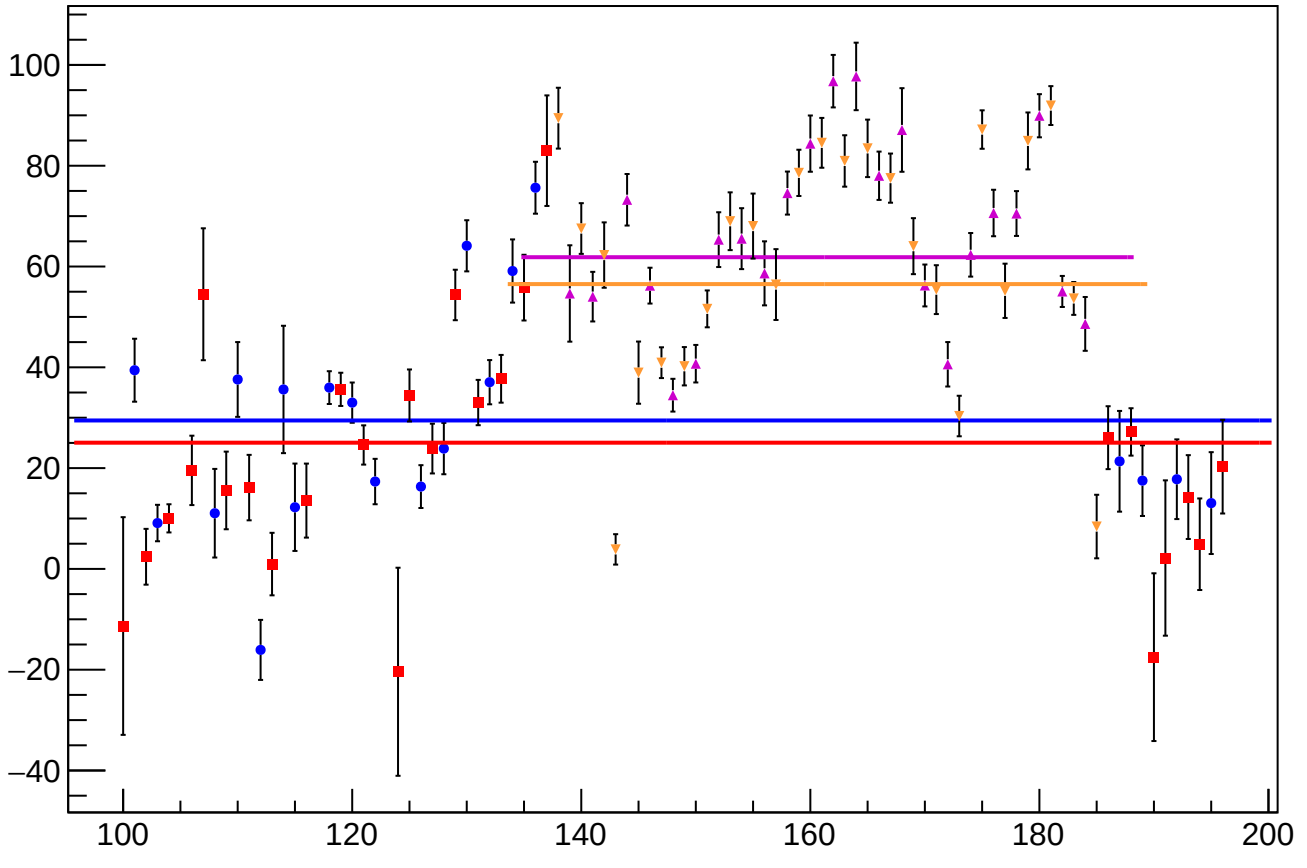
Left: 202.363+/-0.759 $\chi^2$/NDF: 13550.1/47

Right: 177.183+/-0.654 $\chi^2$/NDF: 35698.5/45

In: 192.237+/-0.741 $\chi^2$/NDF:19950.9/42

Out: 184.424+/-0.666 $\chi^2$/NDF:29867.9/50

All: 187.912+/-0.495 $\chi^2$/NDF: 49880.3/93




Right In: 29.454+/-1.203 $\chi^2$/NDF: 286.0/19

Left Out: 56.514+/-0.909 $\chi^2$/NDF:798.9/24

Right Out: 25.045+/-1.121 $\chi^2$/NDF: 204.1/25

Left In: 61.850+/-0.961 $\chi^2$/NDF:320.7/22

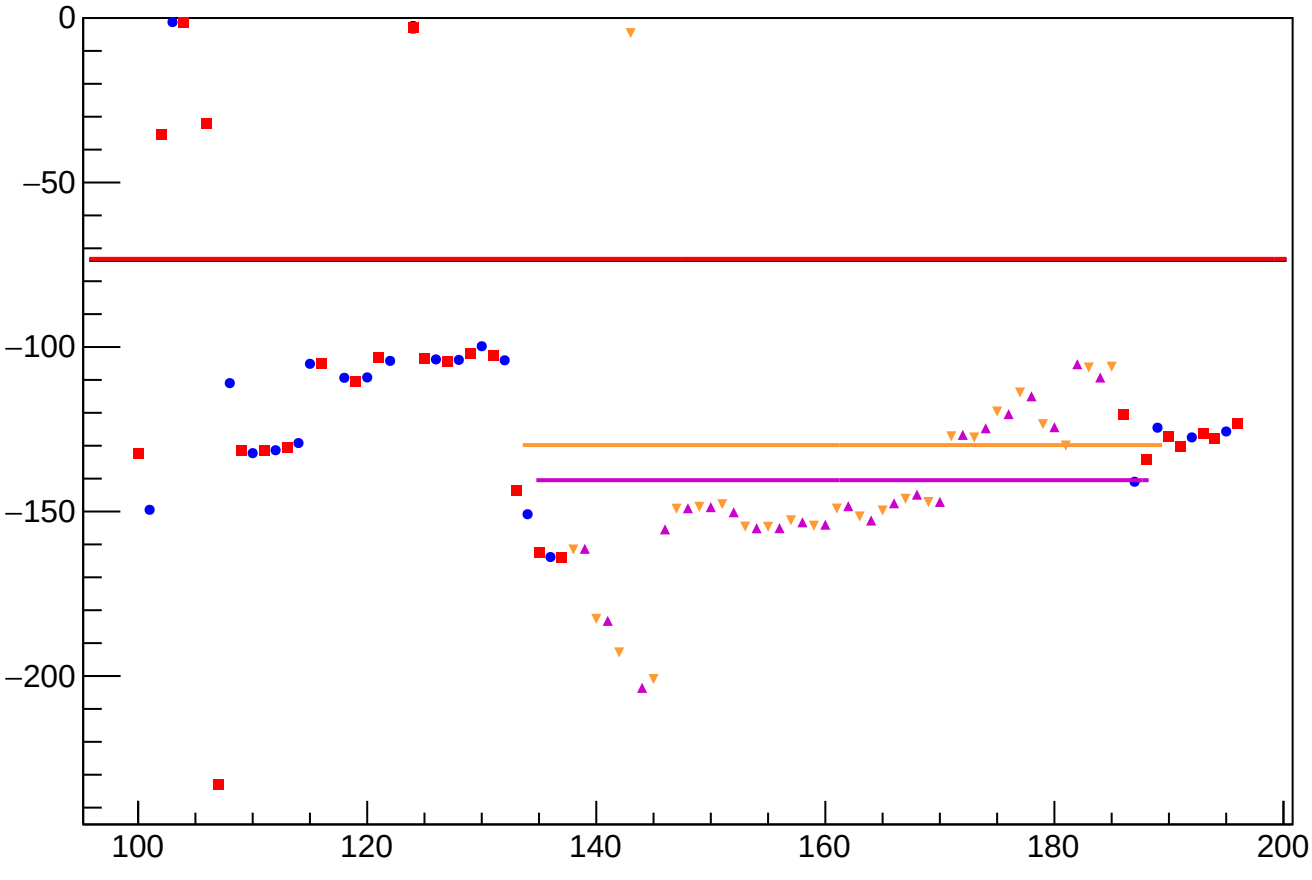
Left: 59.032+/-0.661 $\chi^2$/NDF: 1135.8/47

Right: 27.094+/-0.820 $\chi^2$/NDF: 497.3/45

In: 49.217+/-0.751 $\chi^2$/NDF:1049.5/42

Out: 44.024+/-0.706 $\chi^2$/NDF:1478.7/50

All: 46.460+/-0.514 $\chi^2$/NDF: 2553.5/93




Right In: -73.549+/-0.059 $\chi^2$/NDF: 1180845.9/19

Left Out: -129.810+/-0.042 $\chi^2$/NDF:1025155.0/24

Right Out: -73.202+/-0.055 $\chi^2$/NDF: 1155706.1/25

Left In: -140.477+/-0.044 $\chi^2$/NDF:254660.0/22

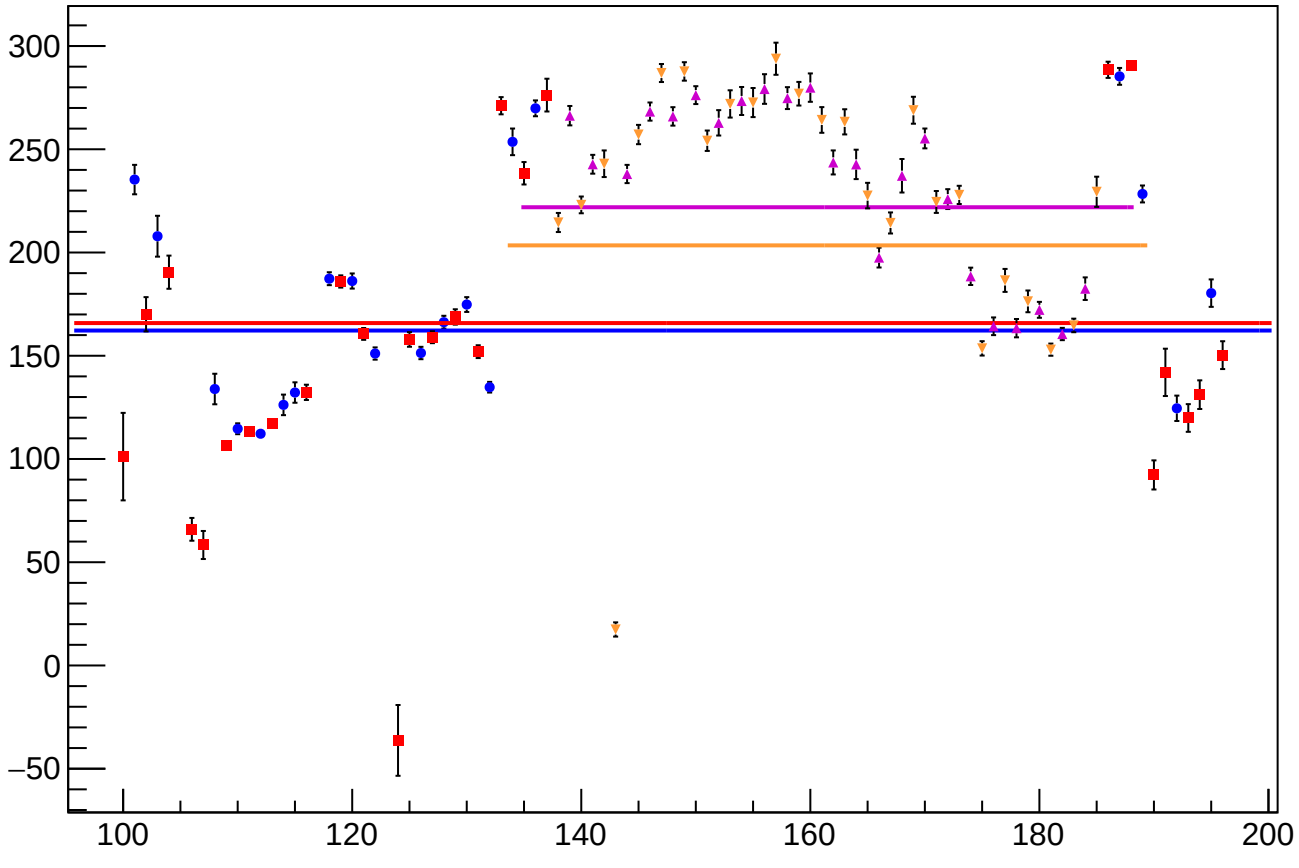
Left: -134.957+/-0.030 $\chi^2$/NDF: 1310696.7/47

Right: -73.363+/-0.040 $\chi^2$/NDF: 2336570.4/45

In: -116.854+/-0.035 $\chi^2$/NDF:2264622.0/42

Out: -108.821+/-0.033 $\chi^2$/NDF:2849161.6/50

All: -112.641+/-0.024 $\chi^2$/NDF: 5141215.4/93




Right In: 162.211+/-0.819 $\chi^2$/NDF: 3584.1/19

Left Out: 203.453+/-0.953 $\chi^2$/NDF:5491.5/24

Right Out: 165.827+/-0.739 $\chi^2$/NDF: 8027.0/25

Left In: 221.923+/-1.003 $\chi^2$/NDF:1986.7/22

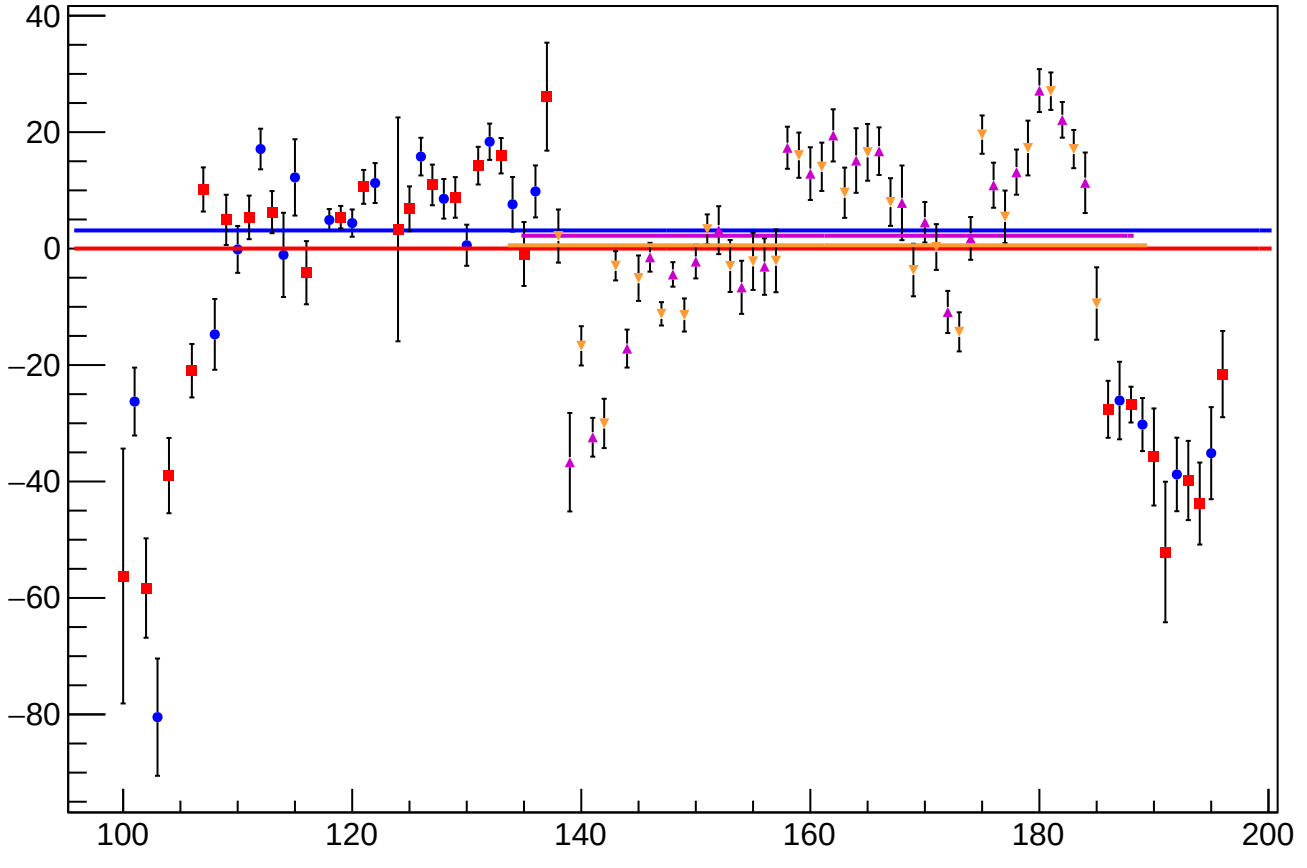
Left: 212.217+/-0.691 $\chi^2$/NDF: 7656.5/47

Right: 164.204+/-0.548 $\chi^2$/NDF: 11621.8/45

In: 186.084+/-0.634 $\chi^2$/NDF:7698.4/42

Out: 179.947+/-0.584 $\chi^2$/NDF:14492.4/50

All: 182.762+/-0.430 $\chi^2$/NDF: 22241.5/93




Right In: 3.118+/-0.853 $\chi^2$/NDF: 314.5/19

Left Out: 0.568+/-0.716 $\chi^2$/NDF:345.4/24

Right Out: 0.011+/-0.818 $\chi^2$/NDF: 446.3/25

Left In: 2.210+/-0.760 $\chi^2$/NDF:358.2/22

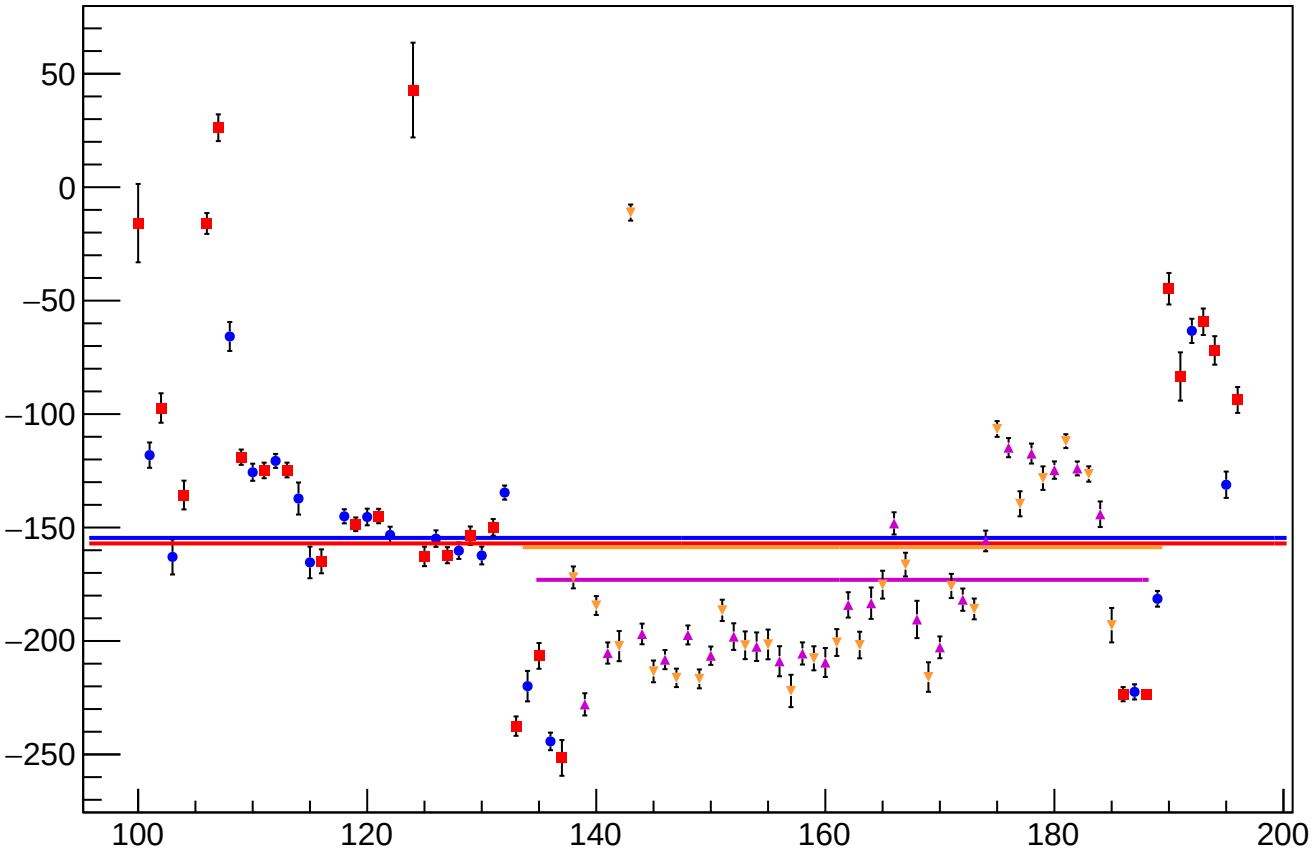
Left: 1.339+/-0.521 $\chi^2$/NDF: 706.1/47

Right: 1.500+/-0.591 $\chi^2$/NDF: 767.7/45

In: 2.611+/-0.568 $\chi^2$/NDF:673.3/42

Out: 0.327+/-0.539 $\chi^2$/NDF:792.0/50

All: 1.410+/-0.391 $\chi^2$/NDF: 1473.8/93




Right In: -154.570+/-0.918 $\chi^2$/NDF: 1897.1/19

Left Out: -158.658+/-0.951 $\chi^2$/NDF:3491.8/24

Right Out: -157.004+/-0.802 $\chi^2$/NDF: 5860.3/25

Left In: -173.043+/-0.996 $\chi^2$/NDF:1399.9/22

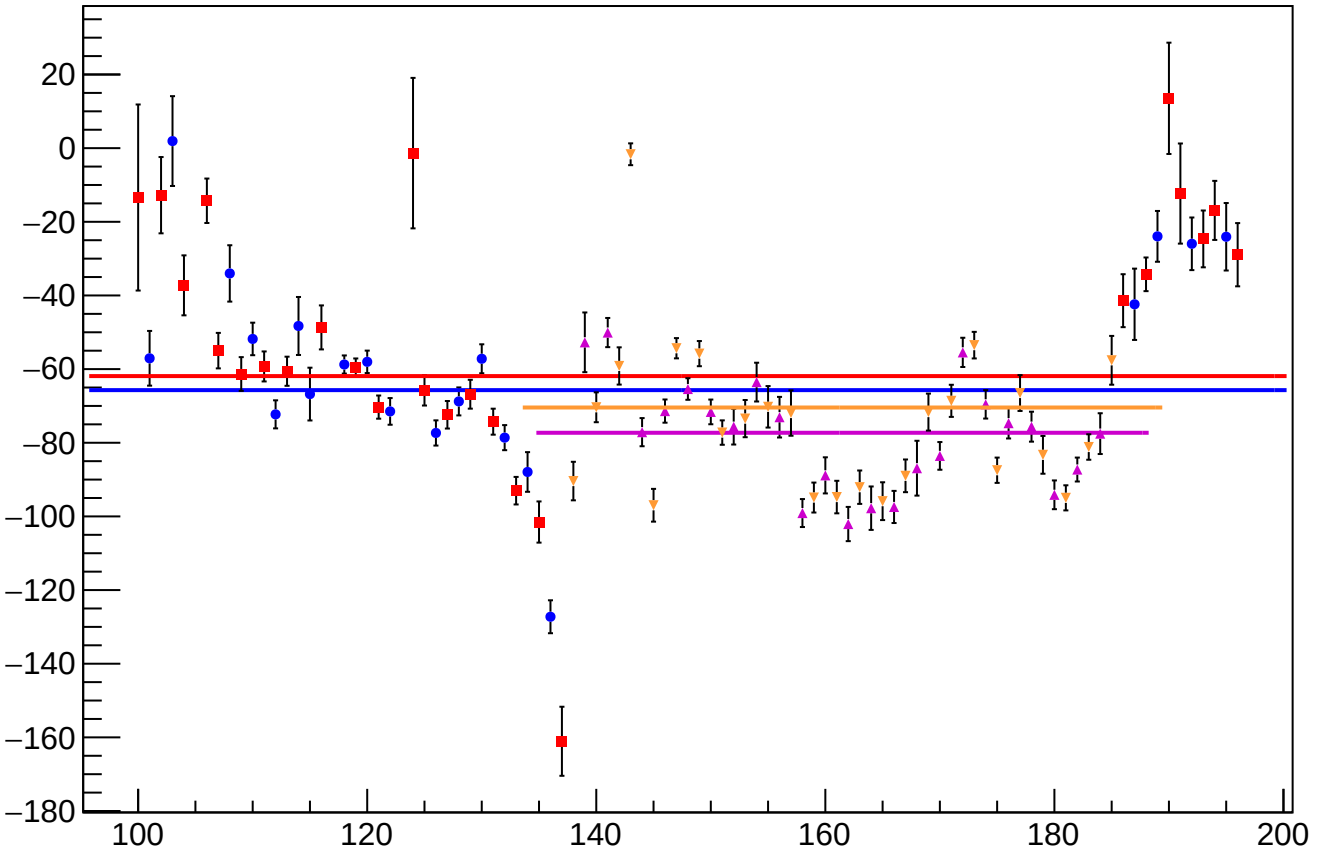
Left: -165.517+/-0.687 $\chi^2$/NDF: 5000.9/47

Right: -155.949+/-0.604 $\chi^2$/NDF: 7761.3/45

In: -163.057+/-0.675 $\chi^2$/NDF:3483.1/42

Out: -157.692+/-0.613 $\chi^2$/NDF:9353.8/50

All: -160.118+/-0.454 $\chi^2$/NDF: 12871.5/93




Right In: -65.709+/-1.000 $\chi^2$/NDF: 415.6/19

Left Out: -70.427+/-0.821 $\chi^2$/NDF:901.6/24

Right Out: -61.896+/-0.964 $\chi^2$/NDF: 528.3/25

Left In: -77.288+/-0.866 $\chi^2$/NDF:254.3/22

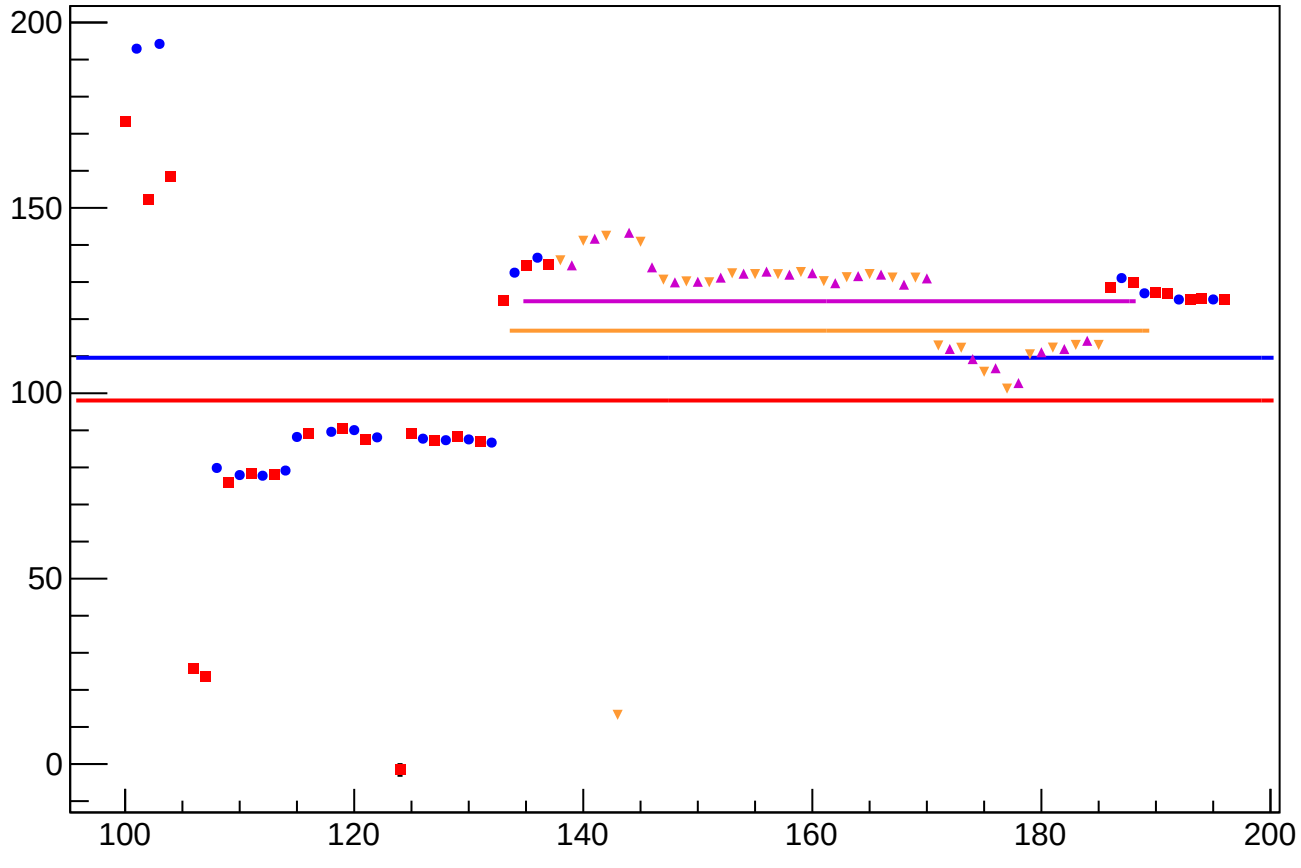
Left: -73.677+/-0.596 $\chi^2$/NDF: 1189.0/47

Right: -63.732+/-0.694 $\chi^2$/NDF: 951.5/45

In: -72.327+/-0.655 $\chi^2$/NDF:746.5/42

Out: -66.838+/-0.625 $\chi^2$/NDF:1475.4/50

All: -69.456+/-0.452 $\chi^2$/NDF: 2258.7/93




Right In: 109.576+/-0.064 $\chi^2$/NDF: 255793.1/19

Left Out: 116.881+/-0.038 $\chi^2$/NDF:623110.0/24

Right Out: 98.051+/-0.056 $\chi^2$/NDF: 468868.6/25

Left In: 124.819+/-0.039 $\chi^2$/NDF:88116.2/22

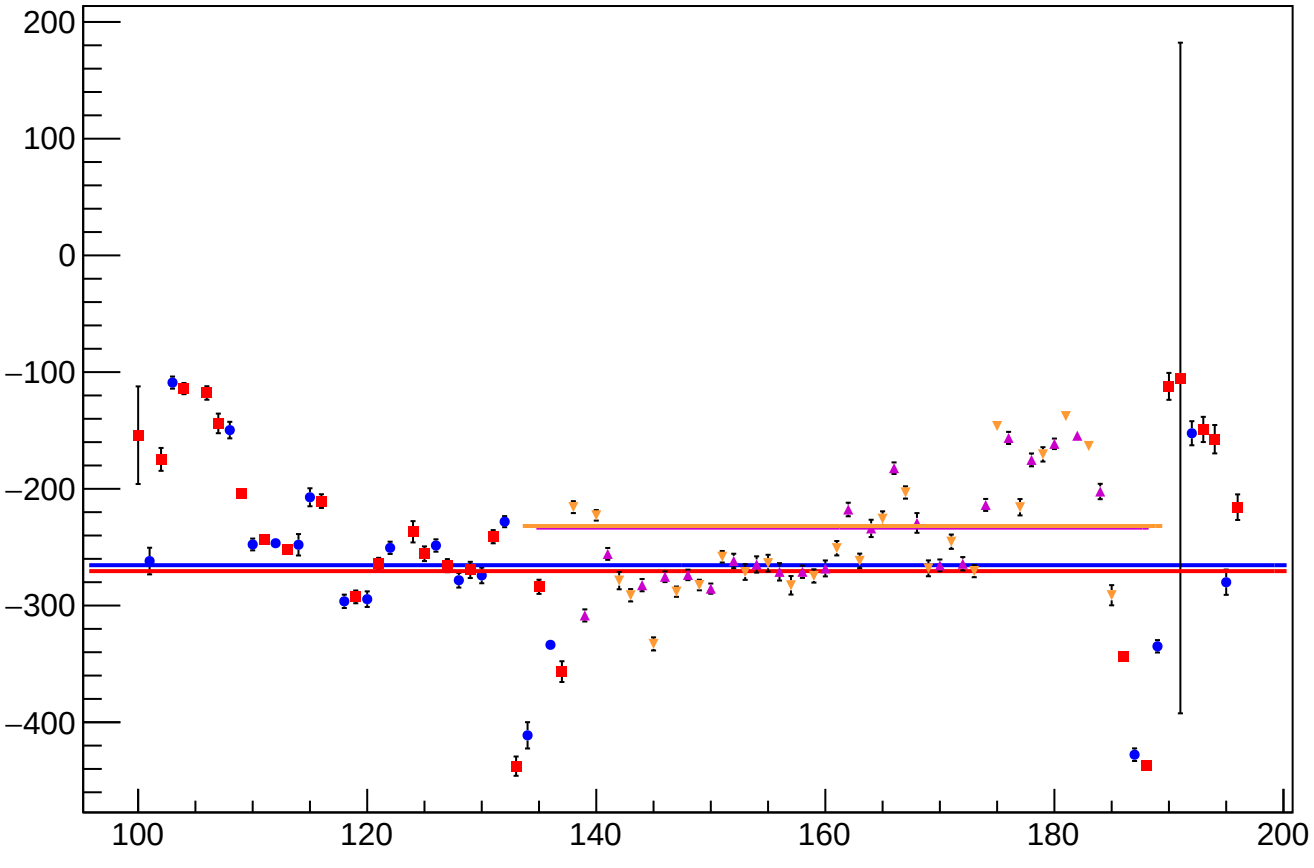
Left: 120.724+/-0.027 $\chi^2$/NDF: 732240.4/47

Right: 103.103+/-0.042 $\chi^2$/NDF: 743067.6/45

In: 120.608+/-0.033 $\chi^2$/NDF:385405.3/42

Out: 110.957+/-0.032 $\chi^2$/NDF:1168820.5/50

All: 115.499+/-0.023 $\chi^2$/NDF: 1598276.5/93




Right In: -265.434+/-1.323 $\chi^2$/NDF: 3032.1/19

Left Out: -231.847+/-1.080 $\chi^2$/NDF:2676.6/24

Right Out: -270.513+/-1.136 $\chi^2$/NDF: 7208.1/25

Left In: -233.258+/-1.108 $\chi^2$/NDF:2067.0/22

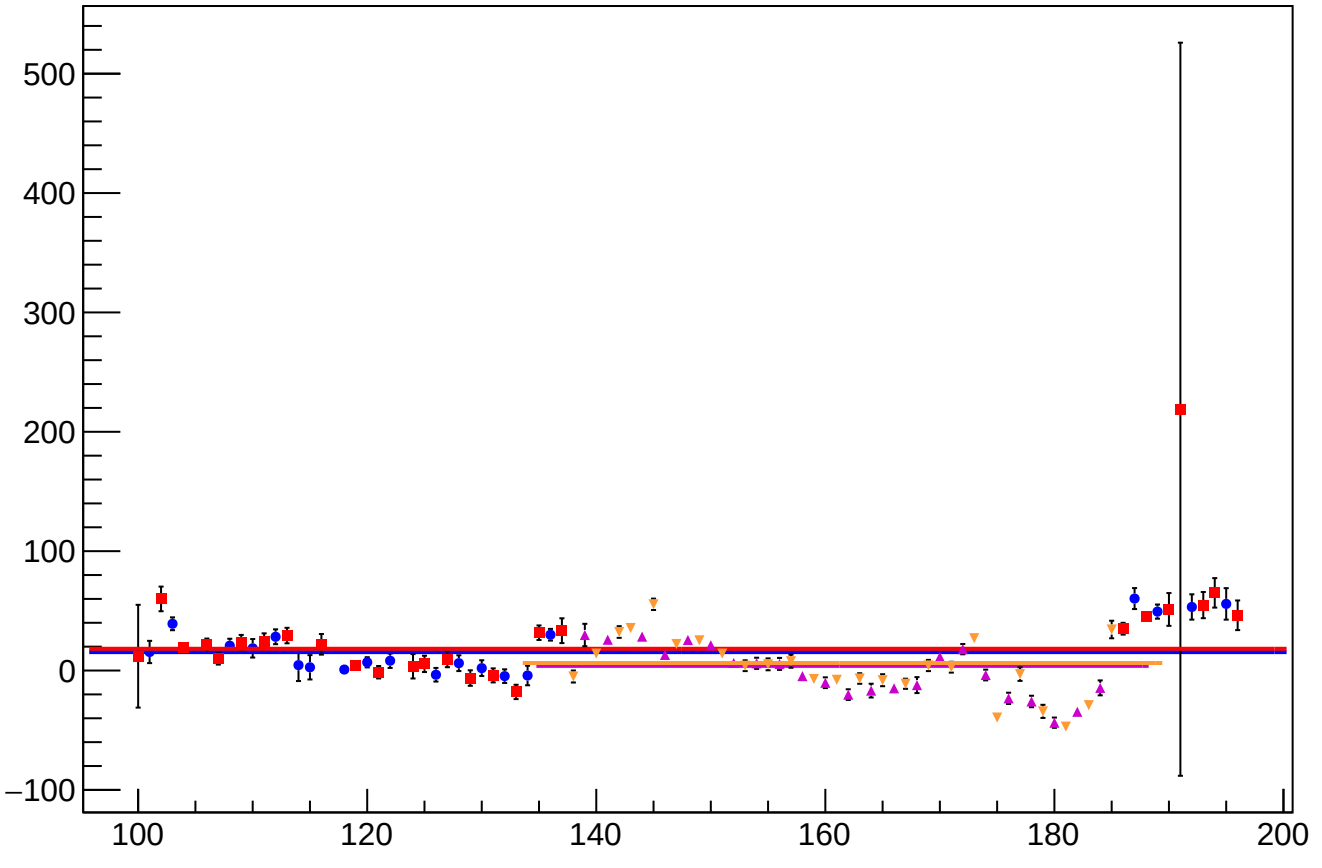
Left: -232.535+/-0.773 $\chi^2$/NDF: 4744.4/47

Right: -268.358+/-0.862 $\chi^2$/NDF: 10248.6/45

In: -246.512+/-0.849 $\chi^2$/NDF:5446.7/42

Out: -250.205+/-0.783 $\chi^2$/NDF:10493.0/50

All: -248.509+/-0.576 $\chi^2$/NDF: 15949.9/93




Right In: 15.429+/-1.389 $\chi^2$/NDF: 175.1/19

Left Out: 6.288+/-0.789 $\chi^2$/NDF:871.5/24

Right Out: 18.225+/-1.226 $\chi^2$/NDF: 228.7/25

Left In: 3.906+/-0.818 $\chi^2$/NDF:650.3/22

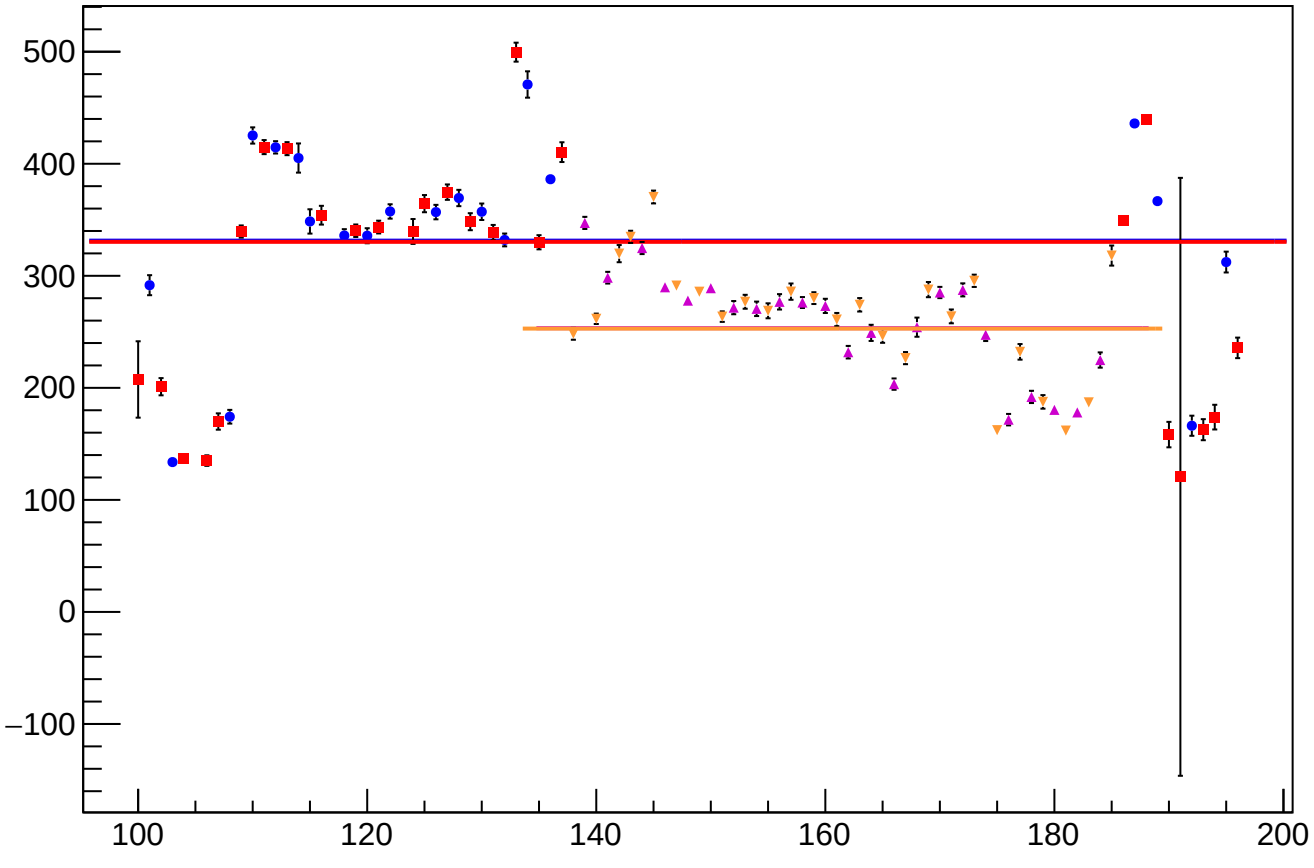
Left: 5.140+/-0.568 $\chi^2$/NDF: 1526.1/47

Right: 17.000+/-0.919 $\chi^2$/NDF: 406.1/45

In: 6.874+/-0.705 $\chi^2$/NDF:876.5/42

Out: 9.783+/-0.664 $\chi^2$/NDF:1167.2/50

All: 8.416+/-0.483 $\chi^2$/NDF: 2052.7/93




Right In: 331.391+/-1.383 $\chi^2$/NDF: 4810.8/19

Left Out: 252.886+/-1.070 $\chi^2$/NDF:2579.0/24

Right Out: 330.331+/-1.134 $\chi^2$/NDF: 9161.2/25

Left In: 253.248+/-1.093 $\chi^2$/NDF:2059.7/22

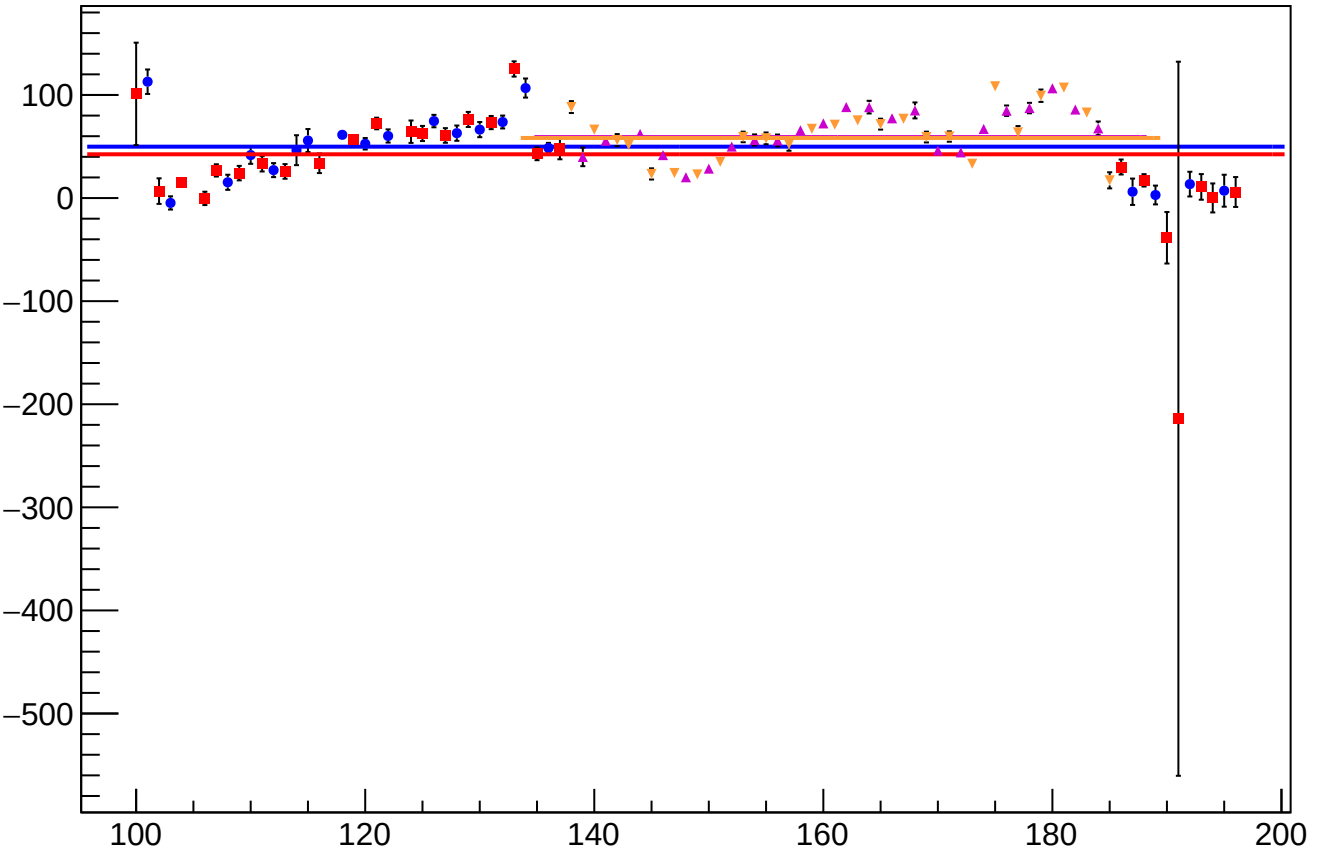
Left: 253.063+/-0.765 $\chi^2$/NDF: 4638.7/47

Right: 330.758+/-0.877 $\chi^2$/NDF: 13972.4/45

In: 283.305+/-0.858 $\chi^2$/NDF:8835.1/42

Out: 289.363+/-0.779 $\chi^2$/NDF:14205.5/50

All: 286.627+/-0.576 $\chi^2$/NDF: 23068.0/93




Right In: 49.851+/-1.631 $\chi^2$/NDF: 276.7/19

Left Out: 58.306+/-0.911 $\chi^2$/NDF:850.2/24

Right Out: 42.454+/-1.477 $\chi^2$/NDF: 386.1/25

Left In: 59.151+/-0.938 $\chi^2$/NDF:632.4/22

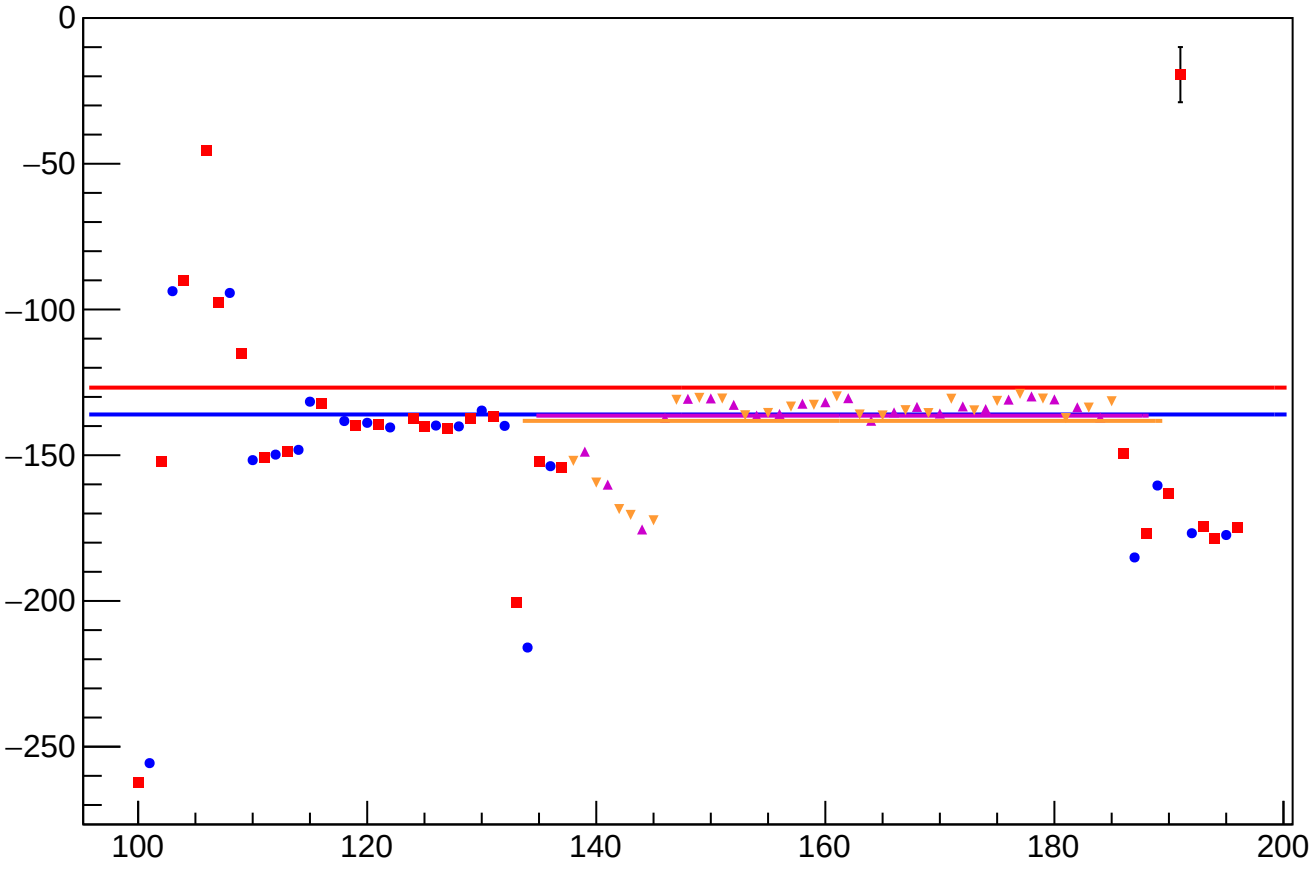
Left: 58.716+/-0.654 $\chi^2$/NDF: 1483.1/47

Right: 45.786+/-1.095 $\chi^2$/NDF: 674.2/45

In: 56.839+/-0.813 $\chi^2$/NDF:933.6/42

Out: 53.934+/-0.776 $\chi^2$/NDF:1319.8/50

All: 55.318+/-0.561 $\chi^2$/NDF: 2260.1/93




Right In: -136.021+/-0.085 $\chi^2$/NDF: 205339.9/19

Left Out: -138.218+/-0.042 $\chi^2$/NDF:81828.6/24

Right Out: -126.805+/-0.077 $\chi^2$/NDF: 293169.5/25

Left In: -136.429+/-0.043 $\chi^2$/NDF:49792.9/22

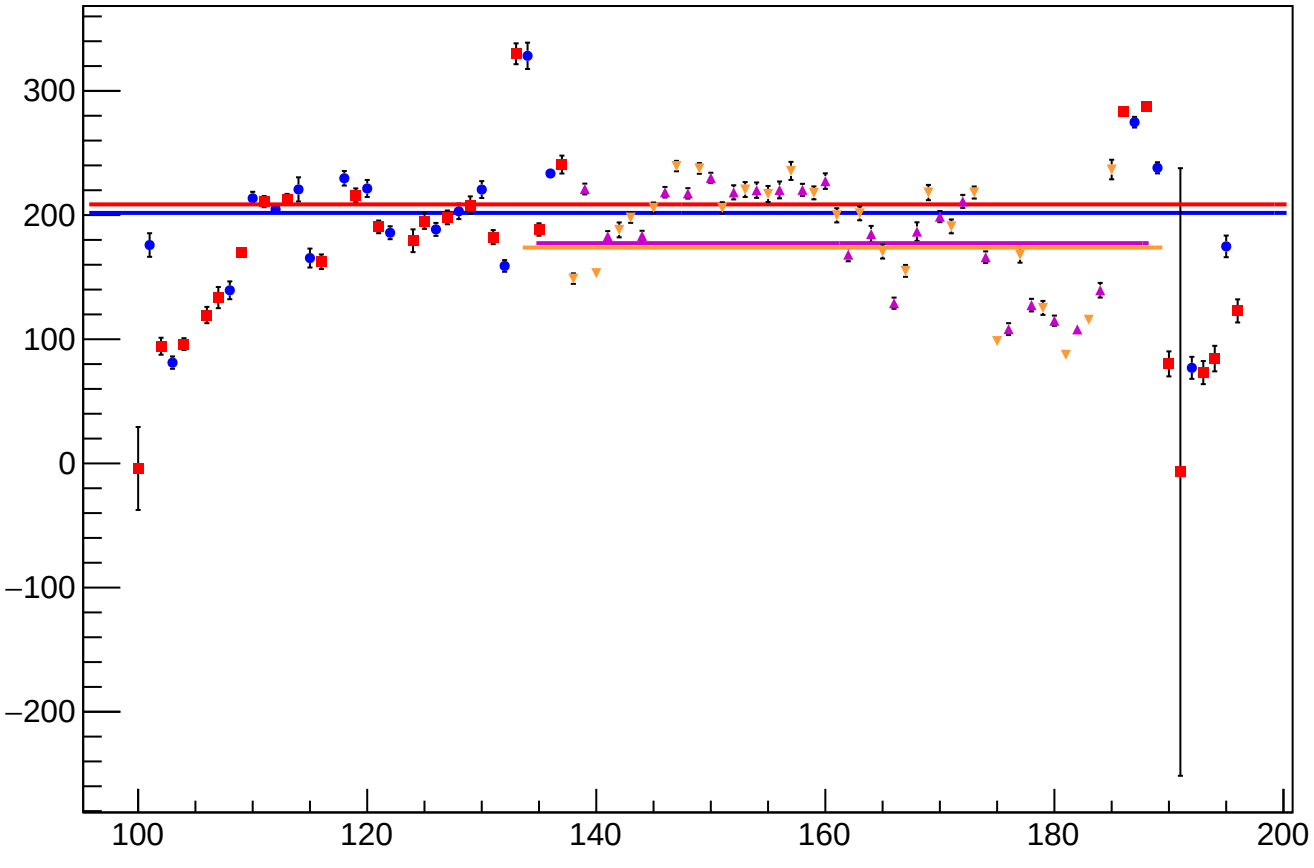
Left: -137.331+/-0.030 $\chi^2$/NDF: 132499.5/47

Right: -130.977+/-0.057 $\chi^2$/NDF: 504990.5/45

In: -136.346+/-0.038 $\chi^2$/NDF:255151.3/42

Out: -135.554+/-0.037 $\chi^2$/NDF:391830.0/50

All: -135.939+/-0.027 $\chi^2$/NDF: 647201.8/93




Right In: 201.746+/-1.255 $\chi^2$/NDF: 1626.7/19

Left Out: 173.862+/-0.962 $\chi^2$/NDF:2627.6/24

Right Out: 208.611+/-1.068 $\chi^2$/NDF: 3789.9/25

Left In: 177.403+/-0.996 $\chi^2$/NDF:1963.0/22

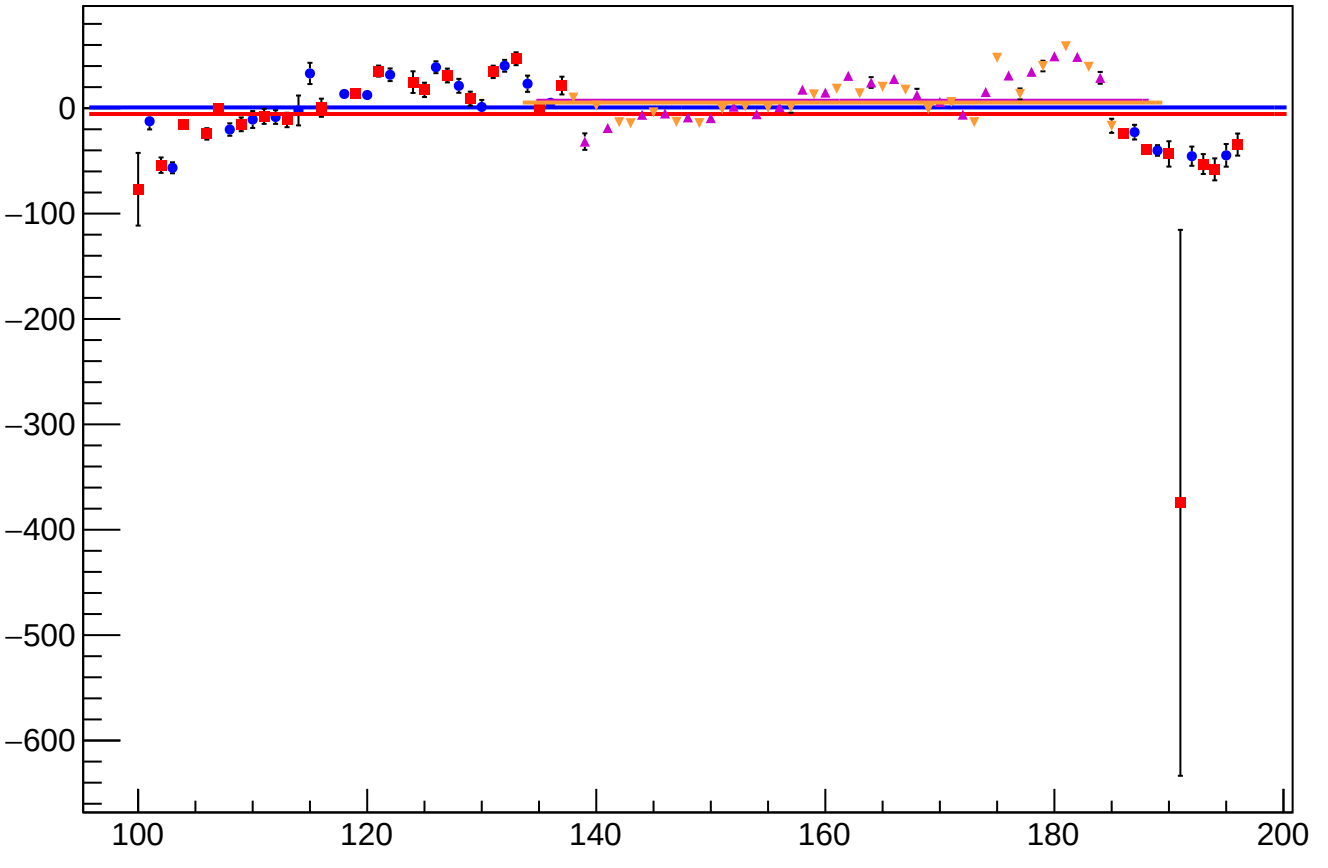
Left: 175.572+/-0.692 $\chi^2$/NDF: 4597.1/47

Right: 205.726+/-0.813 $\chi^2$/NDF: 5433.9/45

In: 186.808+/-0.780 $\chi^2$/NDF:3820.7/42

Out: 189.426+/-0.715 $\chi^2$/NDF:7001.8/50

All: 188.231+/-0.527 $\chi^2$/NDF: 10828.6/93




Right In: 0.741+/-1.335 $\chi^2$/NDF: 432.3/19

Left Out: 5.363+/-0.710 $\chi^2$/NDF:810.0/24

Right Out: -5.519+/-1.172 $\chi^2$/NDF: 546.8/25

Left In: 7.061+/-0.741 $\chi^2$/NDF:709.7/22

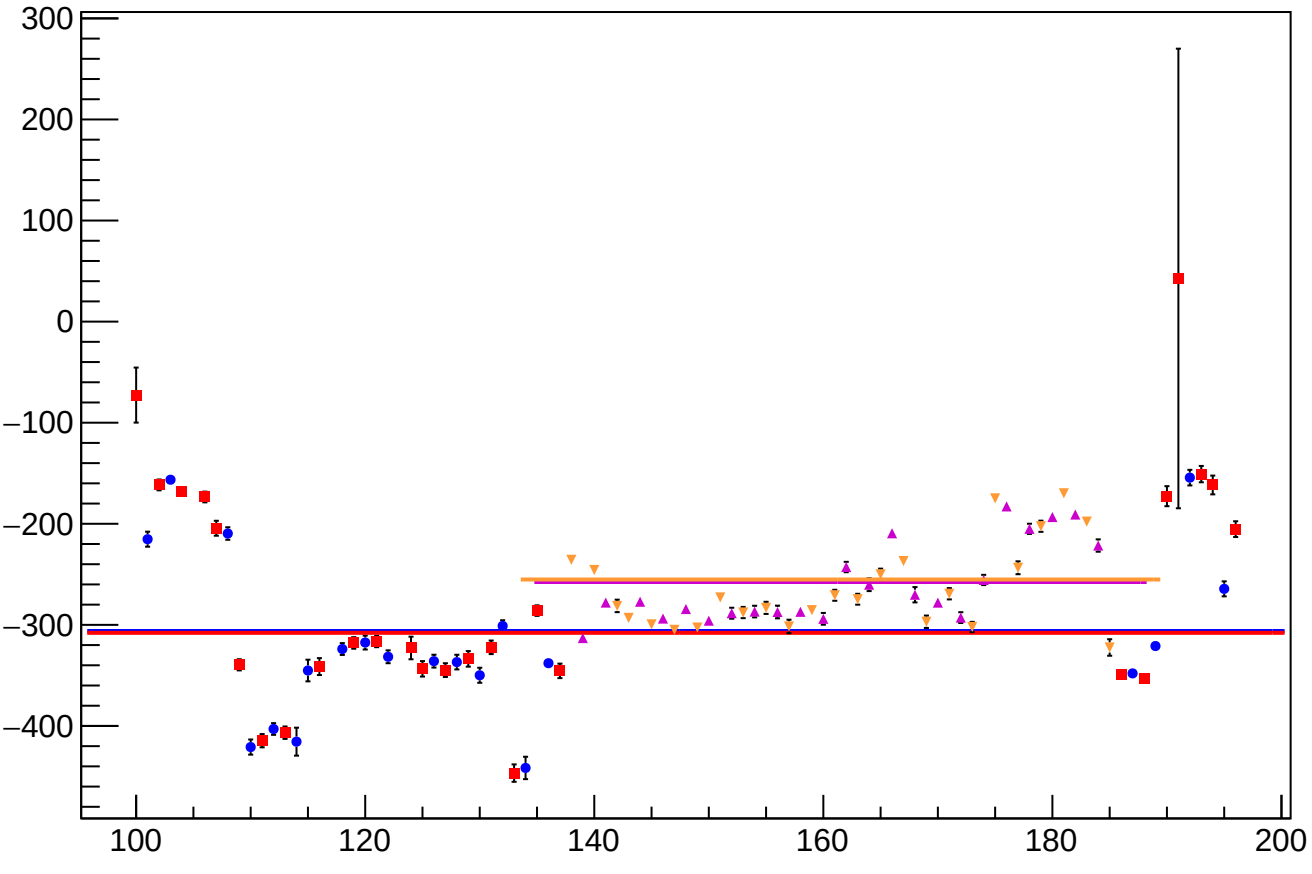
Left: 6.176+/-0.513 $\chi^2$/NDF: 1522.4/47

Right: -2.793+/-0.881 $\chi^2$/NDF: 991.5/45

In: 5.572+/-0.648 $\chi^2$/NDF:1159.1/42

Out: 2.441+/-0.608 $\chi^2$/NDF:1419.8/50

All: 3.905+/-0.443 $\chi^2$/NDF: 2591.3/93




Right In: -306.096+/-1.275 $\chi^2$/NDF: 3363.9/19

Left Out: -255.122+/-0.956 $\chi^2$/NDF:2344.8/24

Right Out: -307.865+/-1.033 $\chi^2$/NDF: 5777.0/25

Left In: -257.600+/-0.985 $\chi^2$/NDF:1808.1/22

Left: -256.324+/-0.686 $\chi^2$/NDF: 4156.2/47

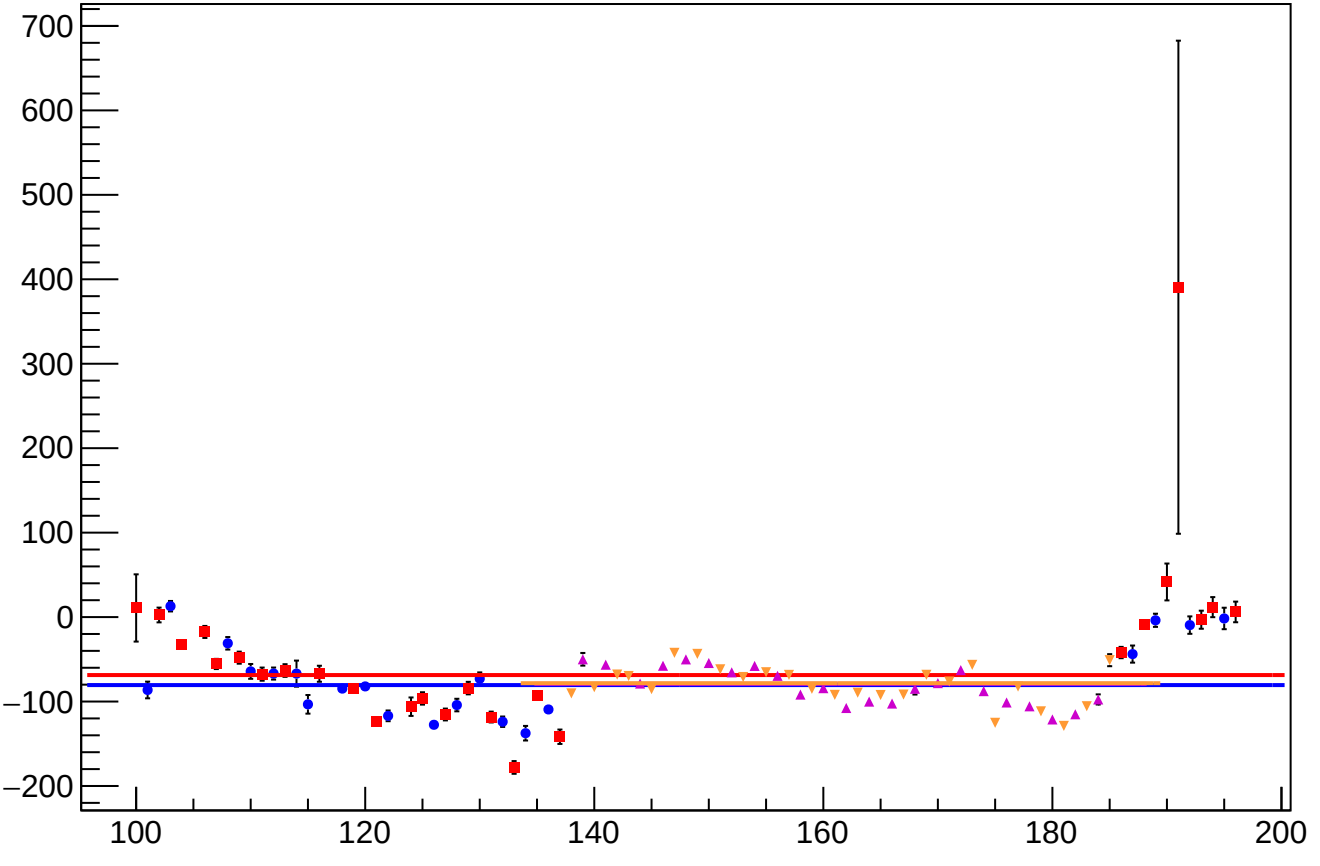
Right: -307.164+/-0.803 $\chi^2$/NDF: 9142.0/45

In: -275.719+/-0.779 $\chi^2$/NDF:6077.9/42

Out: -279.457+/-0.702 $\chi^2$/NDF:9525.3/50

All: -277.783+/-0.522 $\chi^2$/NDF: 15615.9/93

reg_asym_atr_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -80.515+/-1.568 $\chi^2$/NDF: 729.0/19

Left Out: -78.292+/-0.819 $\chi^2$/NDF:868.2/24

Right Out: -68.646+/-1.420 $\chi^2$/NDF: 1057.7/25

Left In: -79.066+/-0.849 $\chi^2$/NDF:702.6/22

Left: -78.665+/-0.589 $\chi^2$/NDF: 1571.2/47

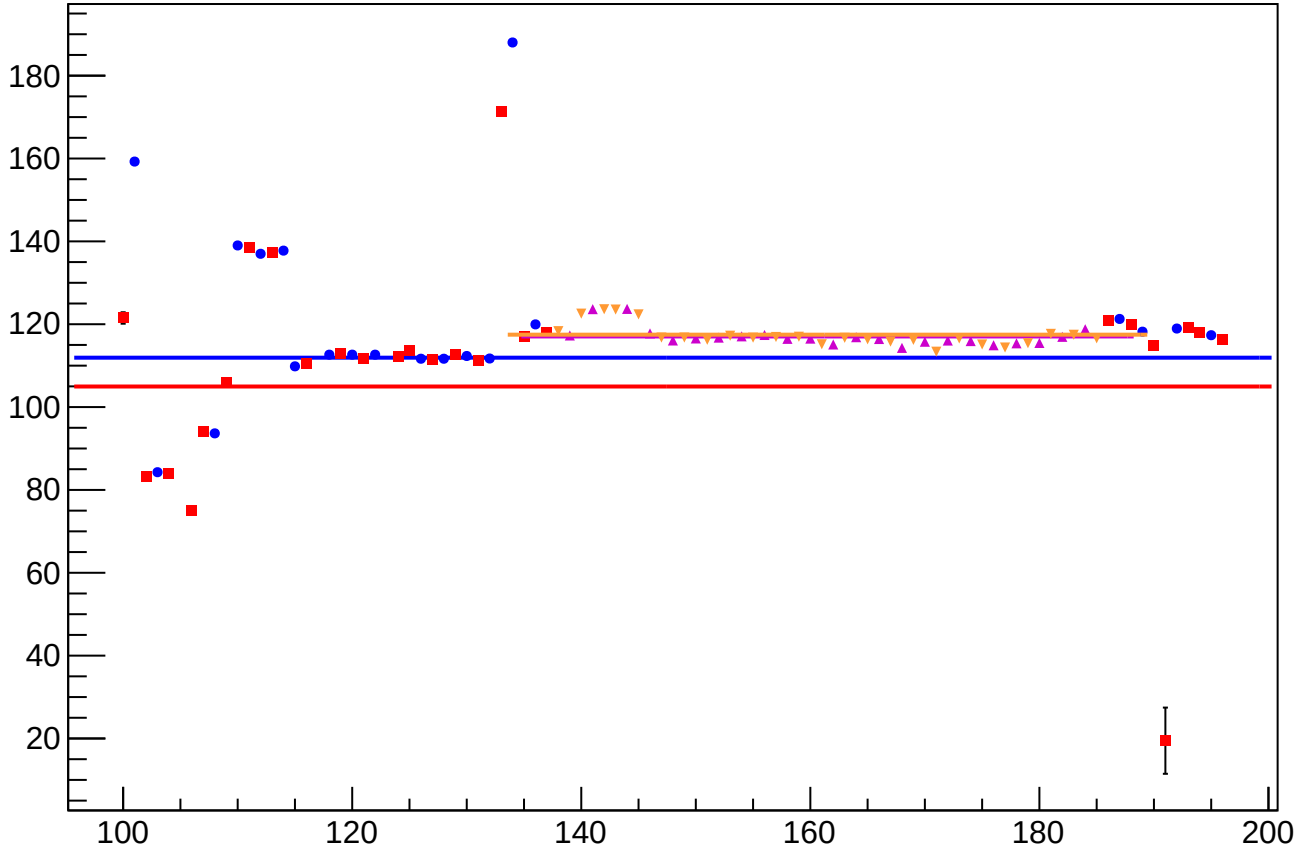
Right: -73.994+/-1.052 $\chi^2$/NDF: 1818.1/45

In: -79.395+/-0.746 $\chi^2$/NDF:1432.3/42

Out: -75.885+/-0.709 $\chi^2$/NDF:1960.5/50

All: -77.550+/-0.514 $\chi^2$/NDF: 3404.4/93

reg_asym_atr_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 111.923+/-0.079 $\chi^2$/NDF: 84935.1/19

Left Out: 117.477+/-0.038 $\chi^2$/NDF:4739.3/24

Right Out: 104.965+/-0.071 $\chi^2$/NDF: 73146.3/25

Left In: 117.046+/-0.039 $\chi^2$/NDF:3343.0/22

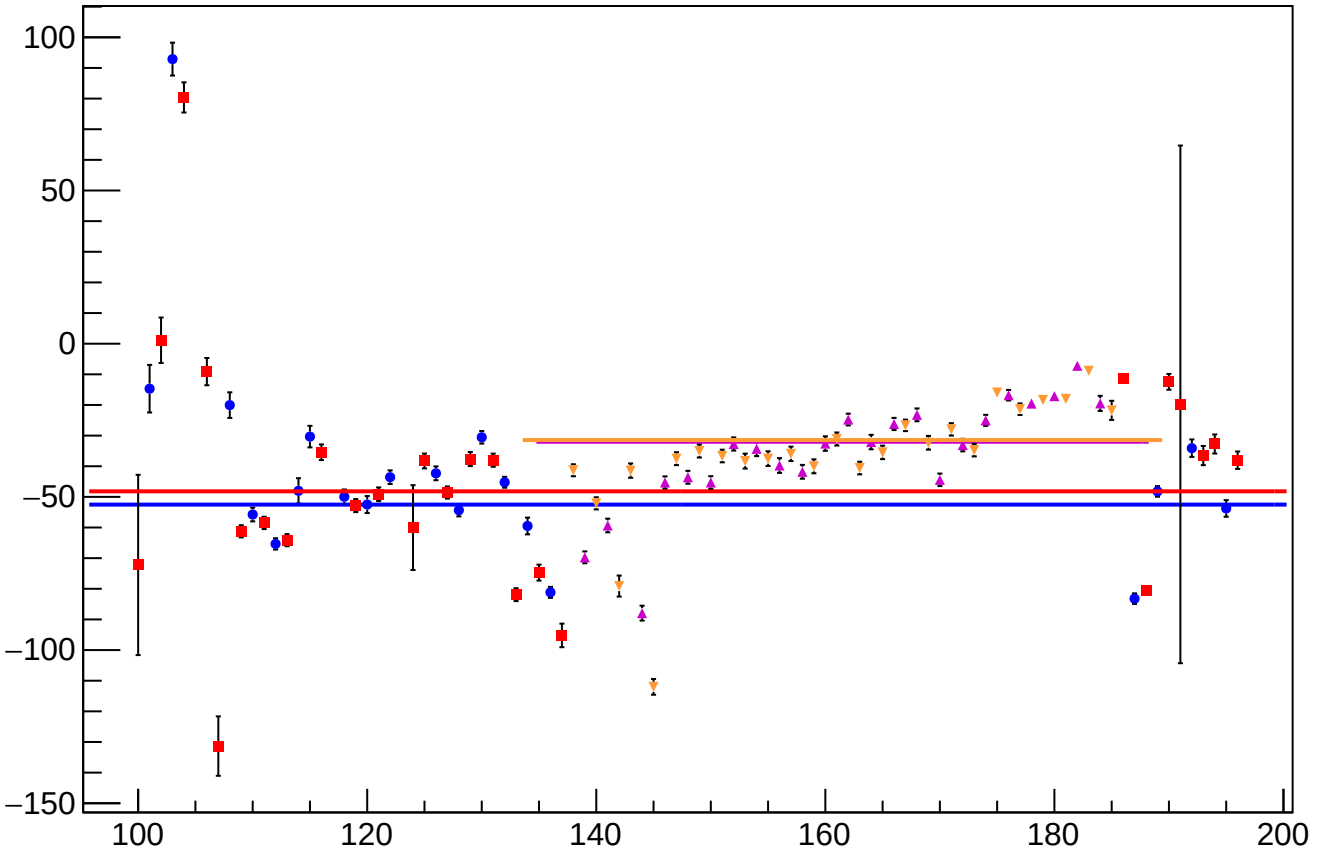
Left: 117.265+/-0.027 $\chi^2$/NDF: 8145.5/47

Right: 108.099+/-0.053 $\chi^2$/NDF: 162378.7/45

In: 116.052+/-0.035 $\chi^2$/NDF:91694.9/42

Out: 114.704+/-0.034 $\chi^2$/NDF:101903.6/50

All: 115.355+/-0.024 $\chi^2$/NDF: 194380.2/93




Right In: -52.522+/-0.526 $\chi^2$/NDF: 1708.1/19

Left Out: -31.452+/-0.399 $\chi^2$/NDF:1992.2/24

Right Out: -48.187+/-0.442 $\chi^2$/NDF: 4132.0/25

Left In: -32.015+/-0.409 $\chi^2$/NDF:1913.4/22

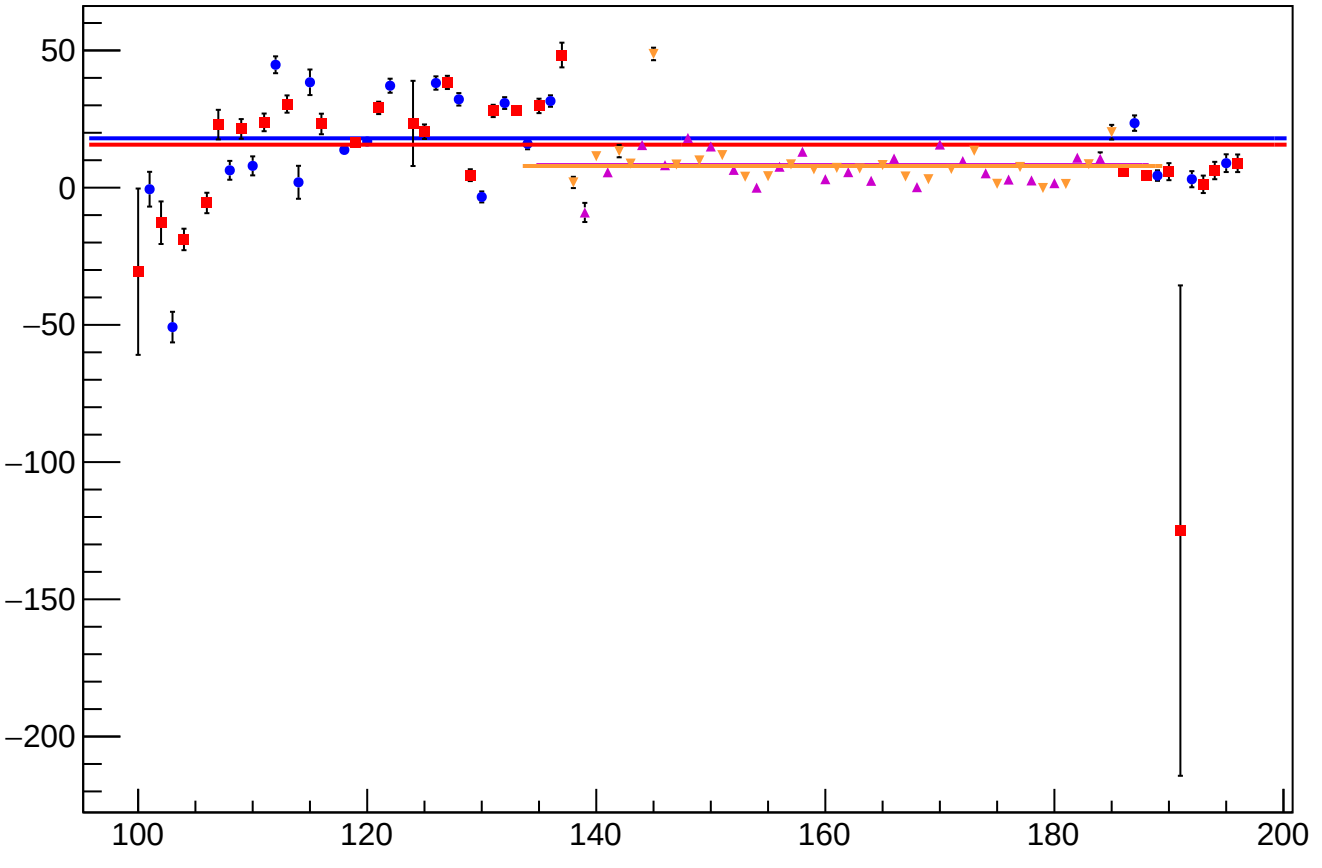
Left: -31.726+/-0.286 $\chi^2$/NDF: 3906.6/47

Right: -49.983+/-0.339 $\chi^2$/NDF: 5879.9/45

In: -39.745+/-0.323 $\chi^2$/NDF:4568.6/42

Out: -38.955+/-0.296 $\chi^2$/NDF:6913.4/50

All: -39.316+/-0.218 $\chi^2$/NDF: 11485.2/93




Right In: 17.983+/-0.552 $\chi^2$/NDF: 735.3/19

Left Out: 7.897+/-0.304 $\chi^2$/NDF:490.5/24

Right Out: 15.665+/-0.494 $\chi^2$/NDF: 664.9/25

Left In: 8.223+/-0.316 $\chi^2$/NDF:338.8/22

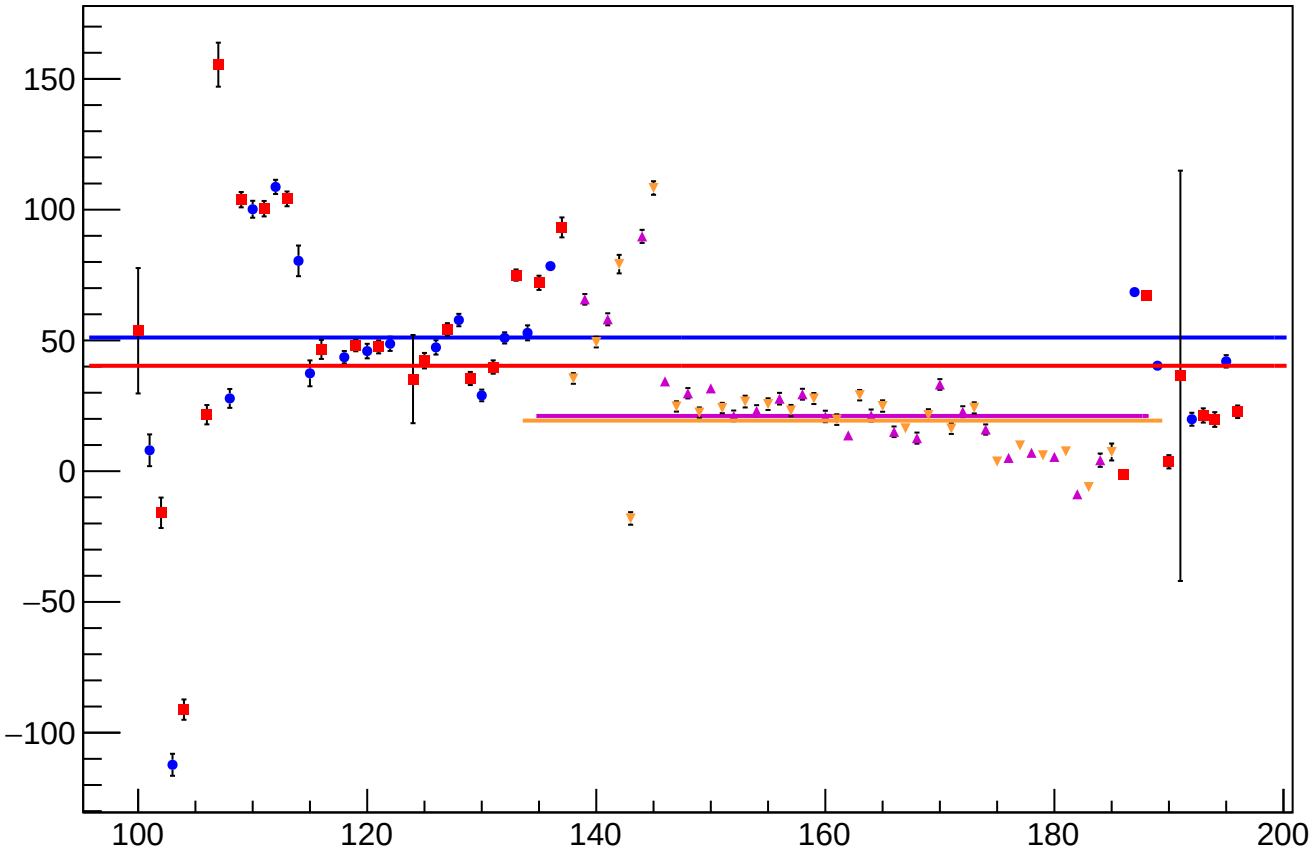
Left: 8.054+/-0.219 $\chi^2$/NDF: 829.9/47

Right: 16.695+/-0.368 $\chi^2$/NDF: 1410.0/45

In: 10.625+/-0.274 $\chi^2$/NDF:1309.6/42

Out: 10.032+/-0.259 $\chi^2$/NDF:1335.0/50

All: 10.311+/-0.188 $\chi^2$/NDF: 2647.1/93




Right In: 51.114+/-0.545 $\chi^2$/NDF: 3041.1/19

Left Out: 19.339+/-0.396 $\chi^2$/NDF:2682.4/24

Right Out: 40.303+/-0.425 $\chi^2$/NDF: 7411.0/25

Left In: 21.124+/-0.405 $\chi^2$/NDF:2504.8/22

Left: 20.211+/-0.283 $\chi^2$/NDF: 5197.1/47

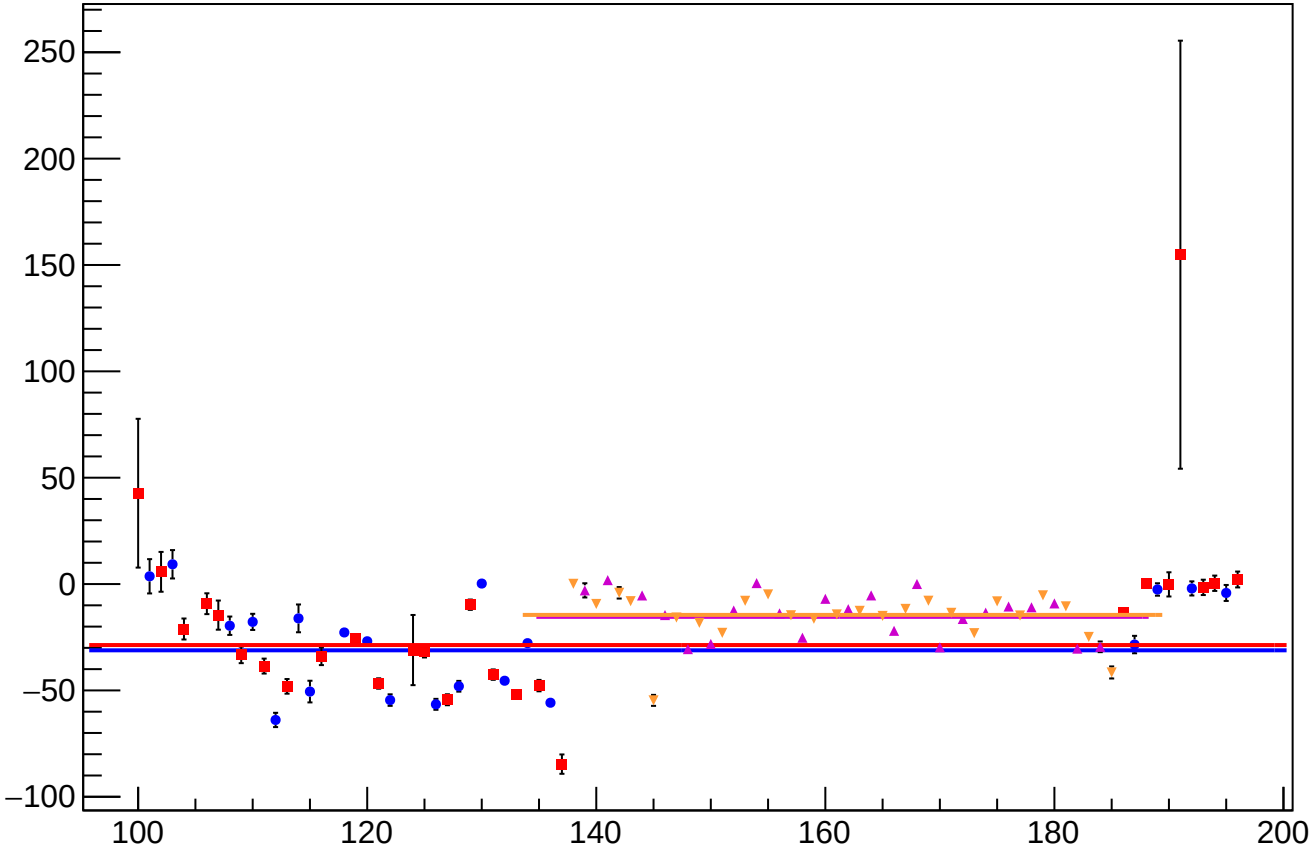
Right: 44.383+/-0.335 $\chi^2$/NDF: 10696.9/45

In: 31.780+/-0.325 $\chi^2$/NDF:7496.5/42

Out: 29.082+/-0.289 $\chi^2$/NDF:11398.6/50

All: 30.275+/-0.216 $\chi^2$/NDF: 18933.6/93

reg_asym_at1_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -31.151+/-0.648 $\chi^2$/NDF: 1029.7/19

Left Out: -14.502+/-0.344 $\chi^2$/NDF:641.0/24

Right Out: -28.674+/-0.605 $\chi^2$/NDF: 1171.4/25

Left In: -15.417+/-0.355 $\chi^2$/NDF:798.7/22

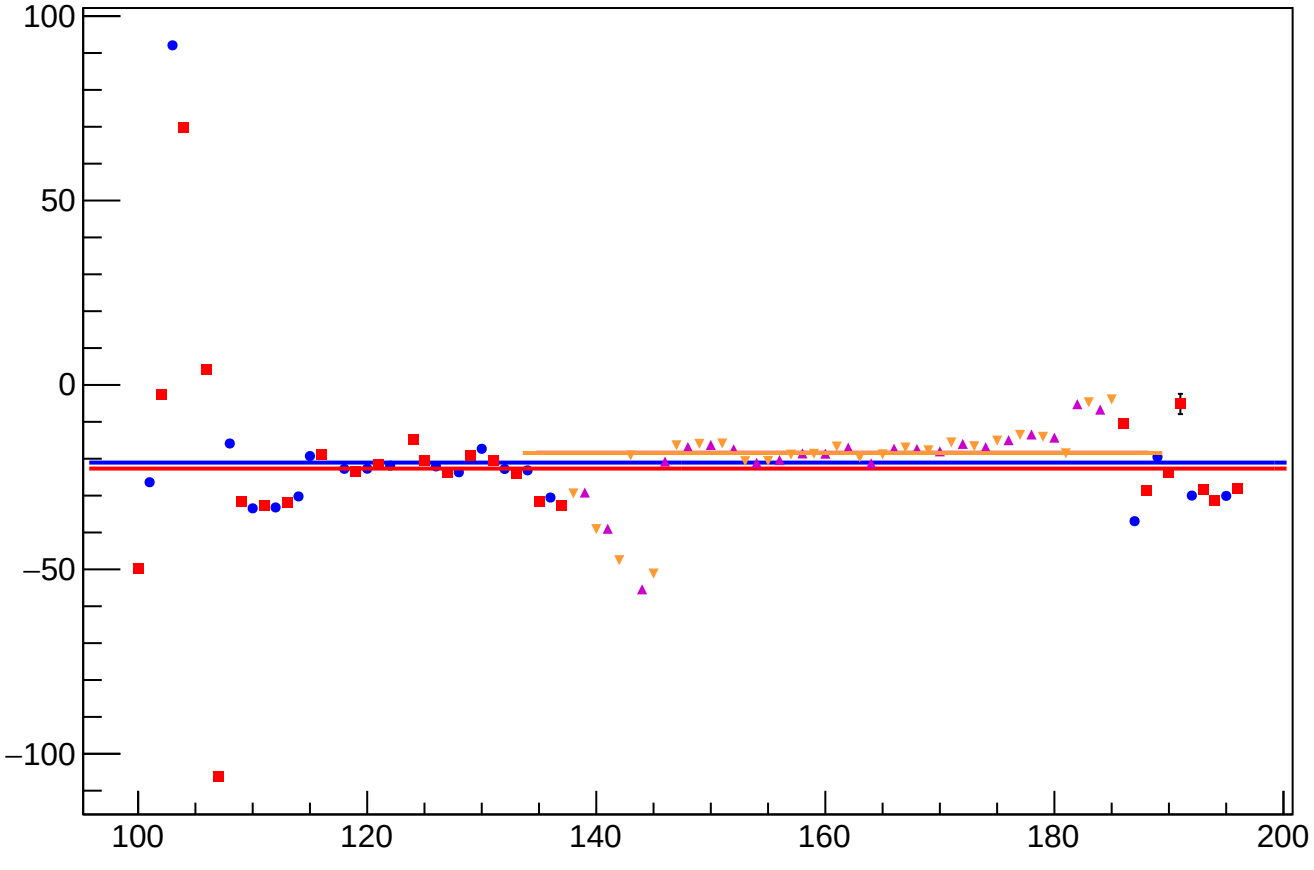
Left: -14.945+/-0.247 $\chi^2$/NDF: 1443.2/47

Right: -29.827+/-0.442 $\chi^2$/NDF: 2208.9/45

In: -19.051+/-0.312 $\chi^2$/NDF:2281.4/42

Out: -17.965+/-0.299 $\chi^2$/NDF:2227.2/50

All: -18.485+/-0.216 $\chi^2$/NDF: 4514.9/93




Right In: -21.046+/-0.036 $\chi^2$/NDF: 450331.8/19

Left Out: -18.450+/-0.015 $\chi^2$/NDF:295359.2/24

Right Out: -22.667+/-0.033 $\chi^2$/NDF: 373383.7/25

Left In: -18.378+/-0.016 $\chi^2$/NDF:250040.9/22

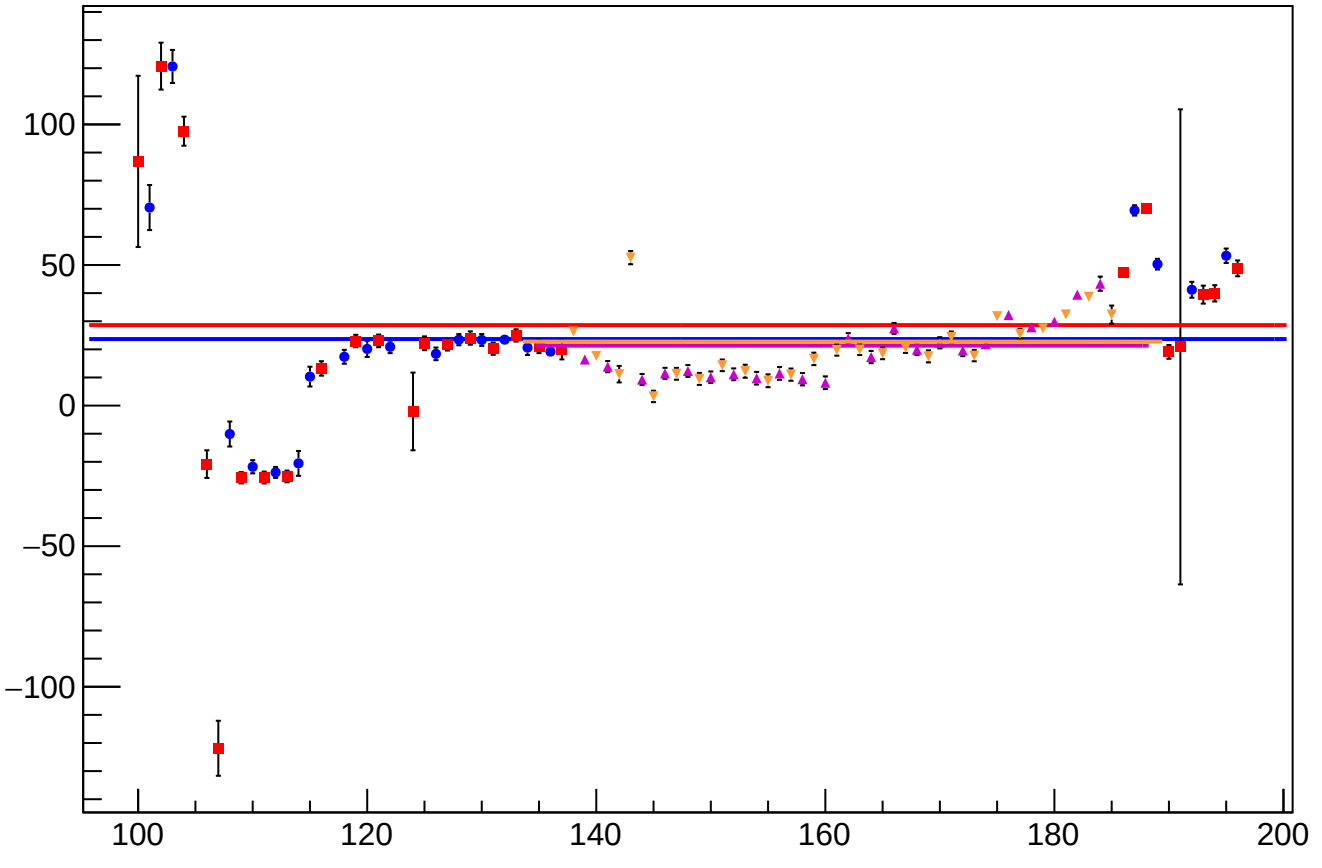
Left: -18.414+/-0.011 $\chi^2$/NDF: 545410.6/47

Right: -21.909+/-0.024 $\chi^2$/NDF: 824812.4/45

In: -18.813+/-0.014 $\chi^2$/NDF:705050.8/42

Out: -19.193+/-0.014 $\chi^2$/NDF:681825.5/50

All: -19.008+/-0.010 $\chi^2$/NDF: 1387232.9/93




Right In: 23.660+/-0.535 $\chi^2$/NDF: 2455.2/19

Left Out: 22.766+/-0.383 $\chi^2$/NDF:722.8/24

Right Out: 28.624+/-0.465 $\chi^2$/NDF: 4605.5/25

Left In: 21.325+/-0.393 $\chi^2$/NDF:629.9/22

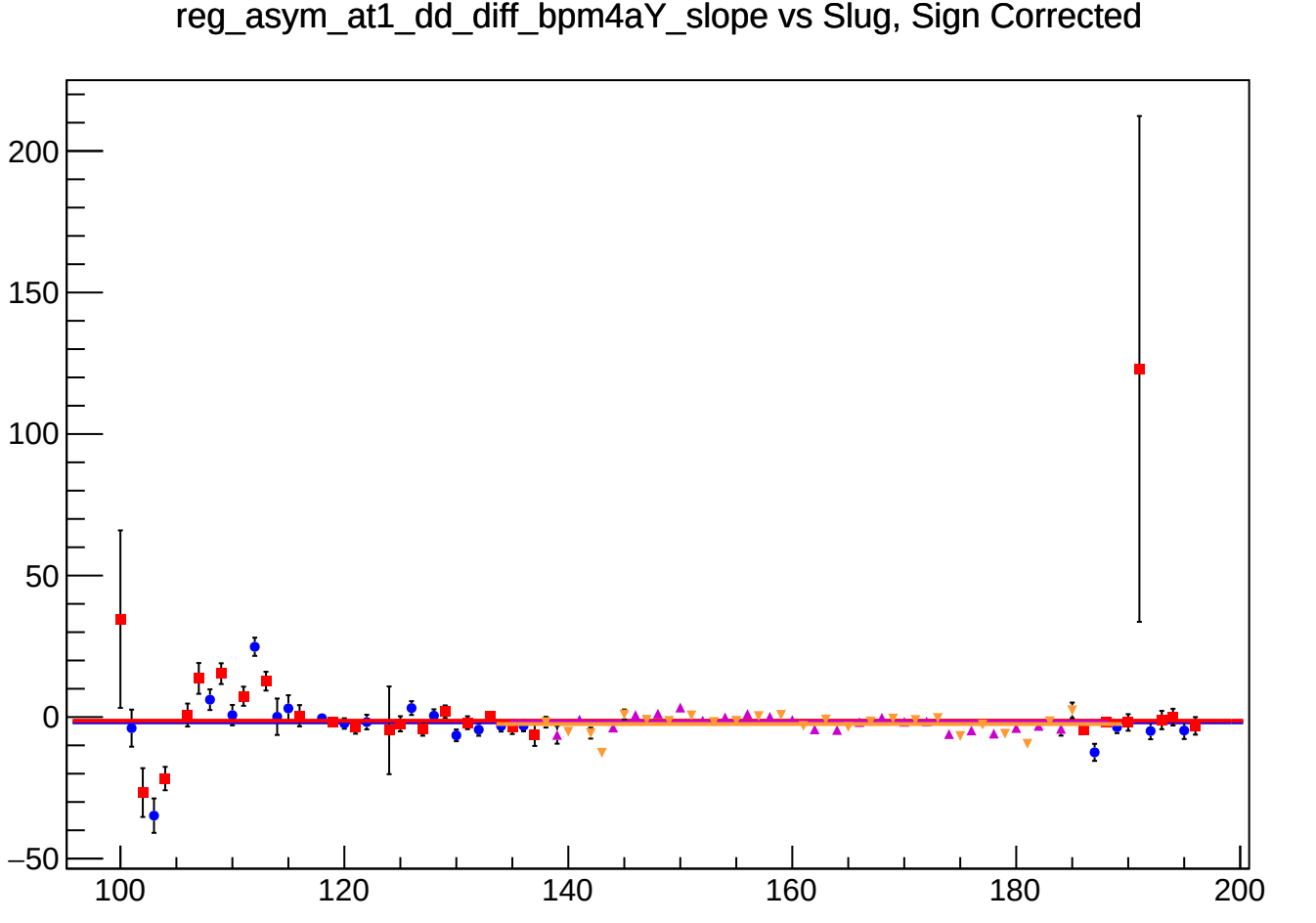
Left: 22.064+/-0.274 $\chi^2$/NDF: 1359.6/47

Right: 26.488+/-0.351 $\chi^2$/NDF: 7109.7/45

In: 22.143+/-0.317 $\chi^2$/NDF:3097.5/42

Out: 25.132+/-0.295 $\chi^2$/NDF:5422.9/50

All: 23.741+/-0.216 $\chi^2$/NDF: 8568.0/93




Right In: -1.852+/-0.561 $\chi^2$/NDF: 133.4/19

Left Out: -2.468+/-0.293 $\chi^2$/NDF:116.7/24

Right Out: -1.288+/-0.517 $\chi^2$/NDF: 101.8/25

Left In: -1.659+/-0.304 $\chi^2$/NDF:70.2/22

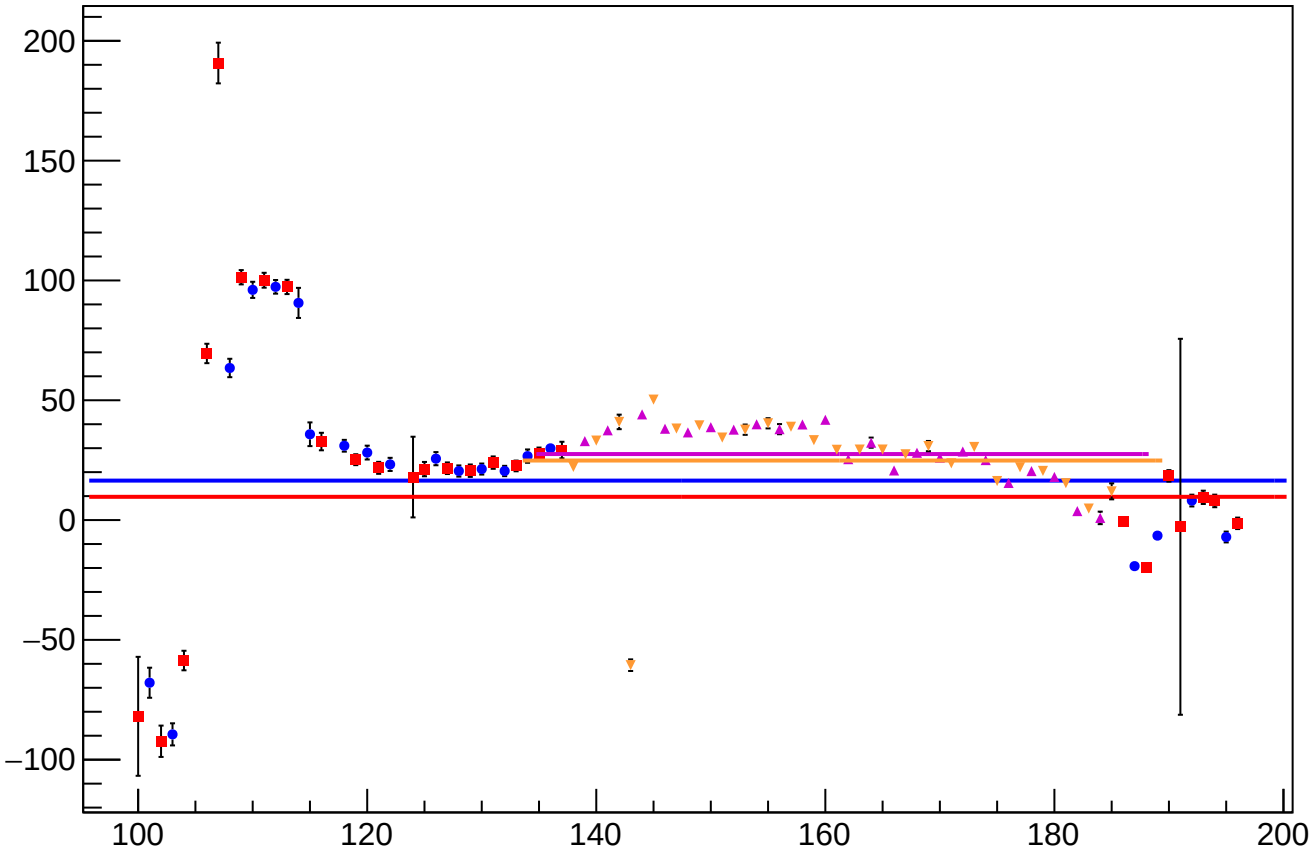
Left: -2.079+/-0.211 $\chi^2$/NDF: 190.6/47

Right: -1.546+/-0.380 $\chi^2$/NDF: 235.7/45

In: -1.703+/-0.267 $\chi^2$/NDF:203.7/42

Out: -2.181+/-0.255 $\chi^2$/NDF:222.5/50

All: -1.953+/-0.184 $\chi^2$/NDF: 427.8/93




Right In: 16.469+/-0.558 $\chi^2$/NDF: 3411.6/19

Left Out: 24.850+/-0.380 $\chi^2$/NDF:2048.7/24

Right Out: 9.704+/-0.454 $\chi^2$/NDF: 5478.9/25

Left In: 27.551+/-0.389 $\chi^2$/NDF:881.9/22

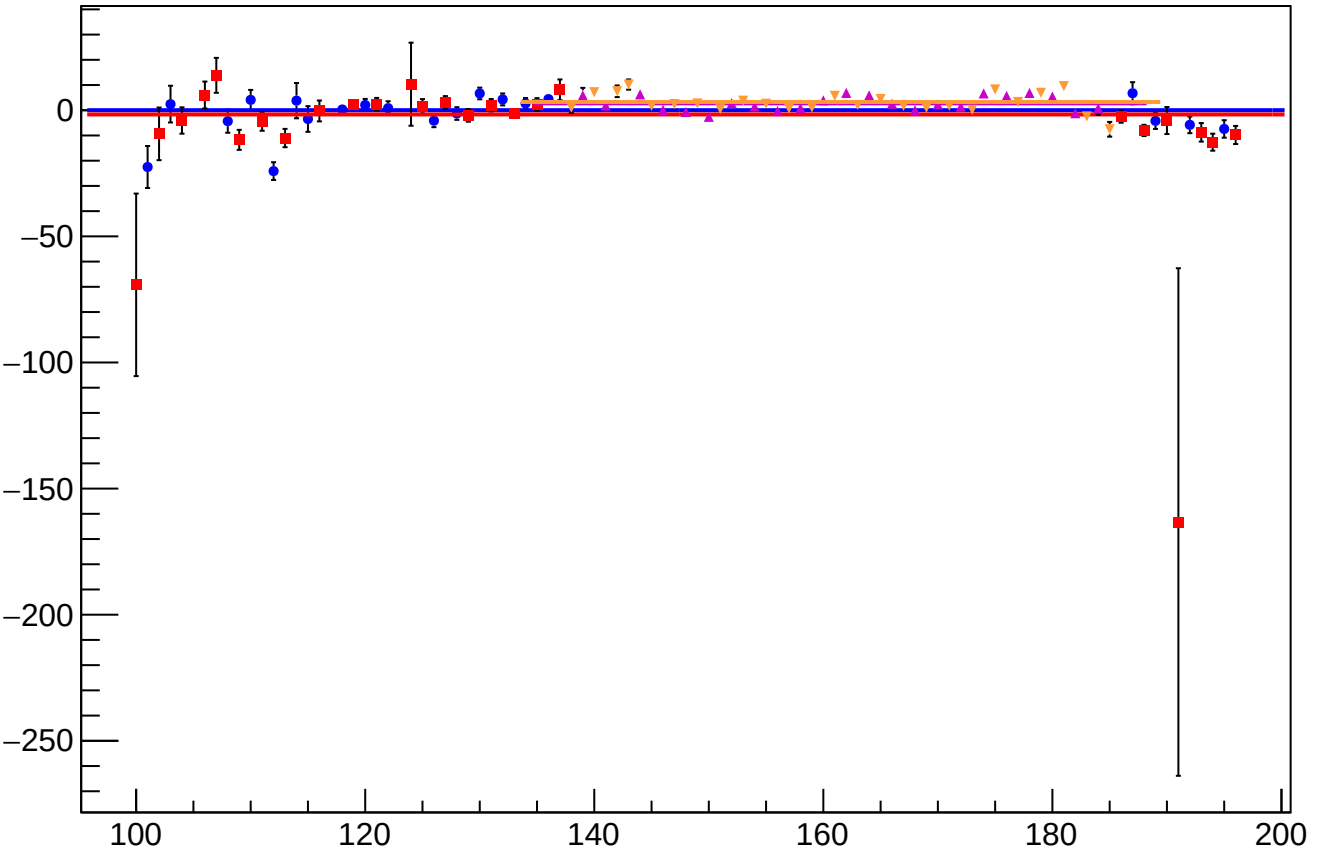
Left: 26.168+/-0.272 $\chi^2$/NDF: 2955.3/47

Right: 12.401+/-0.352 $\chi^2$/NDF: 8979.0/45

In: 23.925+/-0.319 $\chi^2$/NDF:4559.2/42

Out: 18.617+/-0.291 $\chi^2$/NDF:8182.2/50

All: 21.031+/-0.215 $\chi^2$/NDF: 12892.3/93




Right In: 0.028+/-0.654 $\chi^2$/NDF: 91.0/19

Left Out: 3.287+/-0.331 $\chi^2$/NDF:106.3/24

Right Out: -1.663+/-0.625 $\chi^2$/NDF: 78.2/25

Left In: 2.730+/-0.342 $\chi^2$/NDF:74.5/22

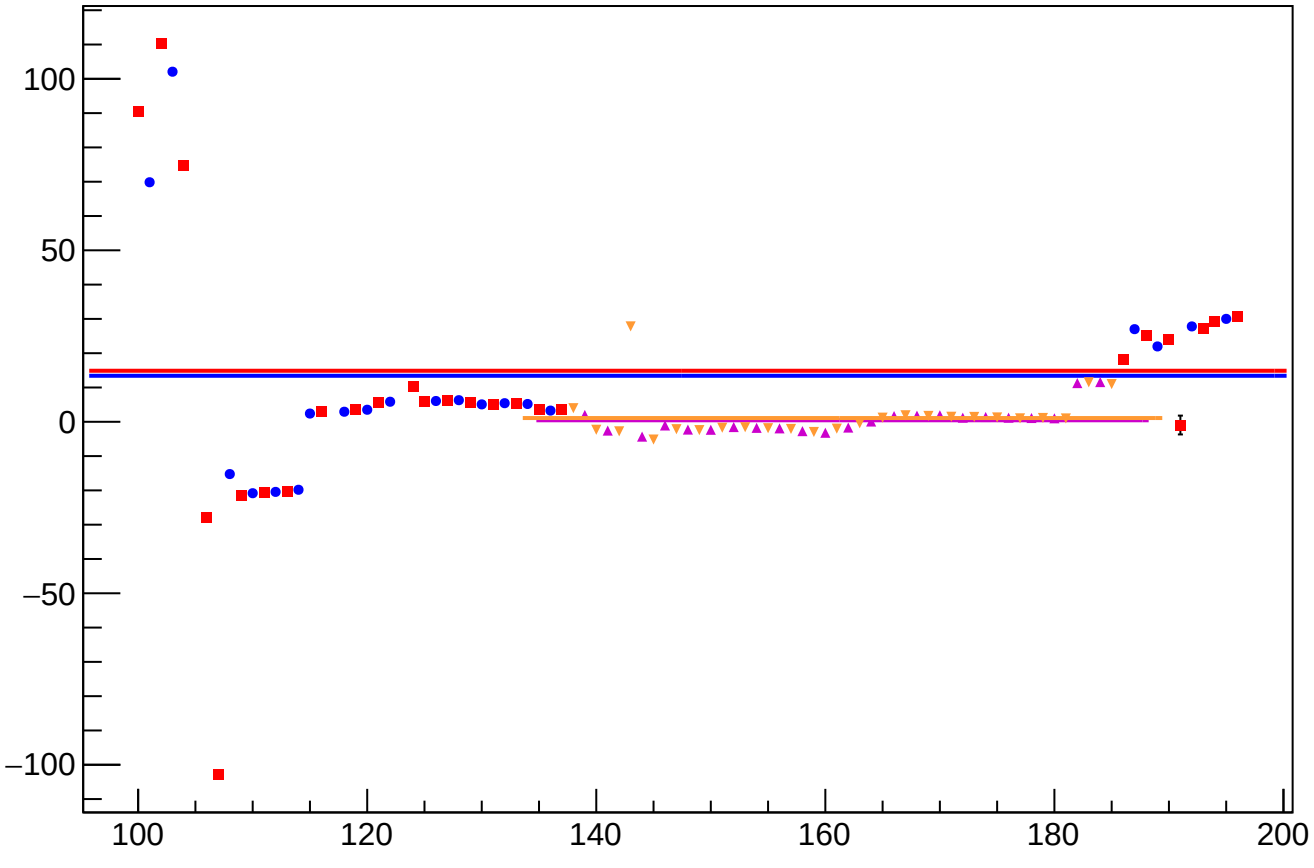
Left: 3.017+/-0.238 $\chi^2$/NDF: 182.1/47

Right: -0.855+/-0.452 $\chi^2$/NDF: 172.6/45

In: 2.149+/-0.303 $\chi^2$/NDF:178.9/42

Out: 2.202+/-0.293 $\chi^2$/NDF:233.4/50

All: 2.176+/-0.211 $\chi^2$/NDF: 412.3/93




Right In: 13.420+/-0.035 $\chi^2$/NDF: 396651.1/19

Left Out: 1.094+/-0.015 $\chi^2$/NDF:128801.7/24

Right Out: 14.884+/-0.034 $\chi^2$/NDF: 553028.4/25

Left In: 0.443+/-0.015 $\chi^2$/NDF:53446.3/22

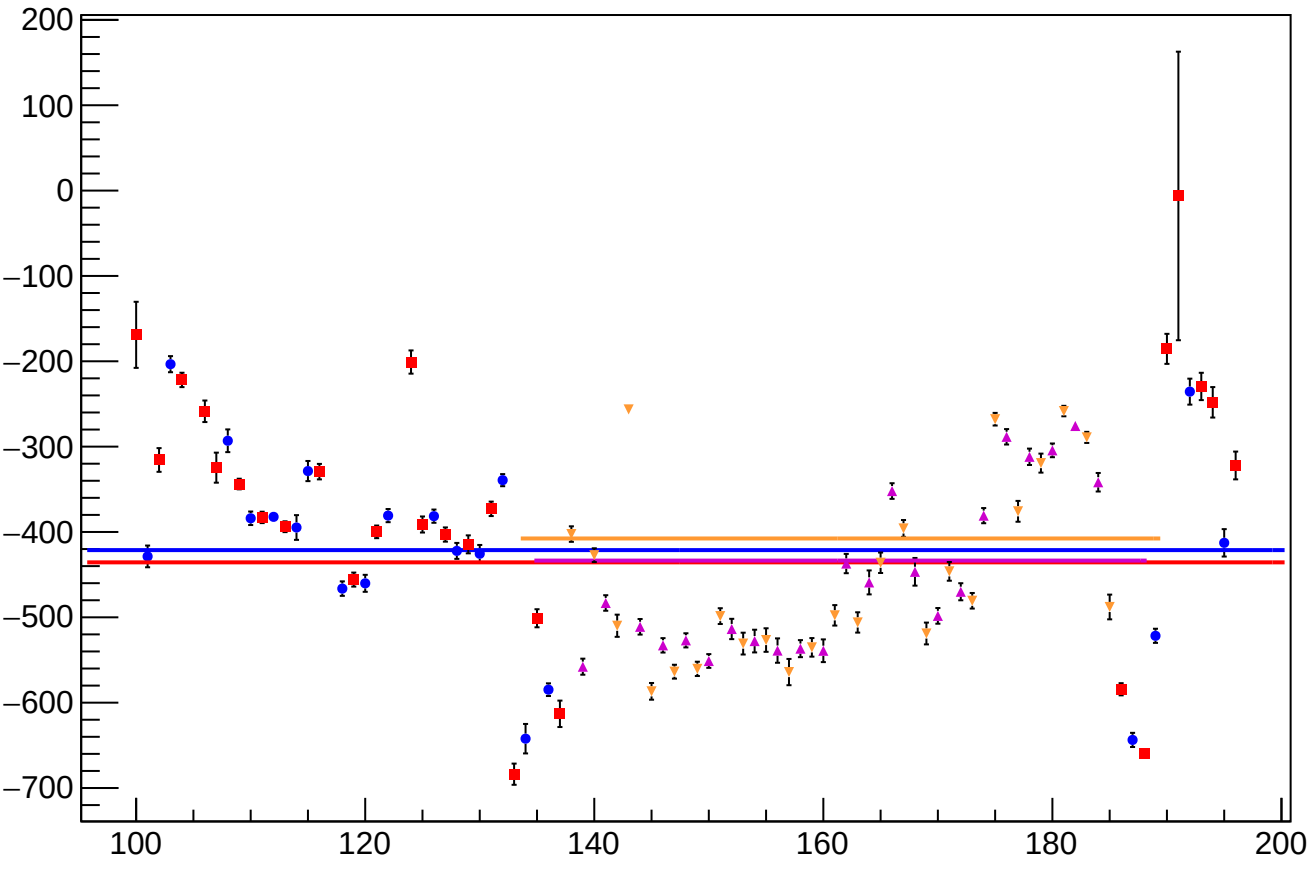
Left: 0.774+/-0.011 $\chi^2$/NDF: 183195.5/47

Right: 14.186+/-0.024 $\chi^2$/NDF: 950578.8/45

In: 2.448+/-0.014 $\chi^2$/NDF:564424.5/42

Out: 3.333+/-0.014 $\chi^2$/NDF:822068.0/50

All: 2.900+/-0.010 $\chi^2$/NDF: 1388571.3/93




Right In: -421.246+/-2.053 $\chi^2$/NDF: 2651.3/19

Left Out: -407.620+/-1.868 $\chi^2$/NDF:4005.6/24

Right Out: -435.605+/-1.805 $\chi^2$/NDF: 6028.2/25

Left In: -433.529+/-1.993 $\chi^2$/NDF:2724.5/22

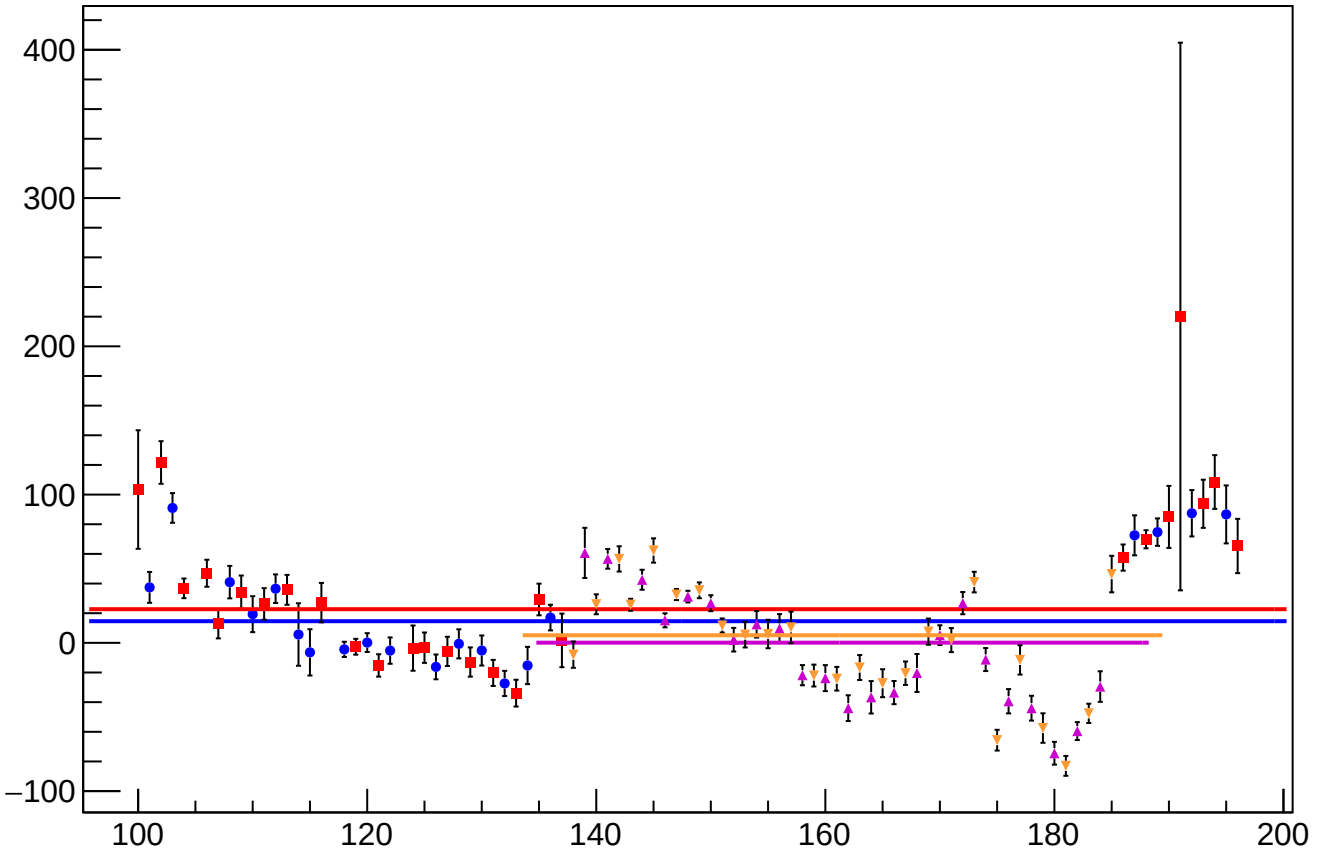
Left: -419.735+/-1.363 $\chi^2$/NDF: 6820.1/47

Right: -429.346+/-1.355 $\chi^2$/NDF: 8707.1/45

In: -427.569+/-1.430 $\chi^2$/NDF:5394.3/42

Out: -422.095+/-1.298 $\chi^2$/NDF:10149.9/50

All: -424.567+/-0.961 $\chi^2$/NDF: 15552.2/93




Right In: 14.604+/-2.137 $\chi^2$/NDF: 245.8/19

Left Out: 5.125+/-1.379 $\chi^2$/NDF:689.2/24

Right Out: 22.706+/-1.965 $\chi^2$/NDF: 343.0/25

Left In: 0.124+/-1.489 $\chi^2$/NDF:568.6/22

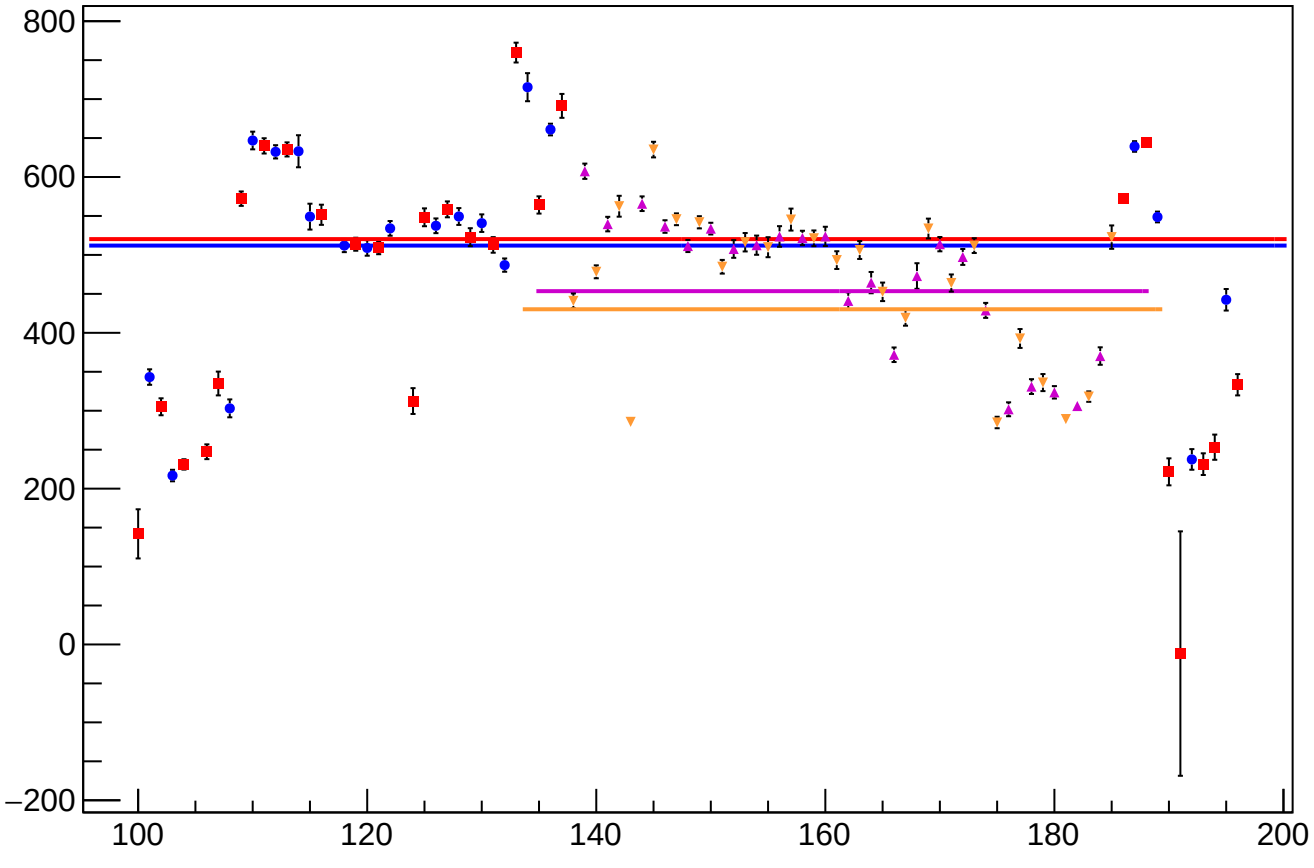
Left: 2.817+/-1.012 $\chi^2$/NDF: 1263.8/47

Right: 18.995+/-1.446 $\chi^2$/NDF: 596.6/45

In: 4.857+/-1.222 $\chi^2$/NDF:845.3/42

Out: 10.925+/-1.129 $\chi^2$/NDF:1085.8/50

All: 8.132+/-0.829 $\chi^2$/NDF: 1944.4/93




Right In: 511.983+/-2.160 $\chi^2$/NDF: 3981.8/19

Left Out: 430.238+/-1.861 $\chi^2$/NDF:3405.1/24

Right Out: 520.294+/-1.818 $\chi^2$/NDF: 6949.1/25

Left In: 453.496+/-1.974 $\chi^2$/NDF:2419.7/22

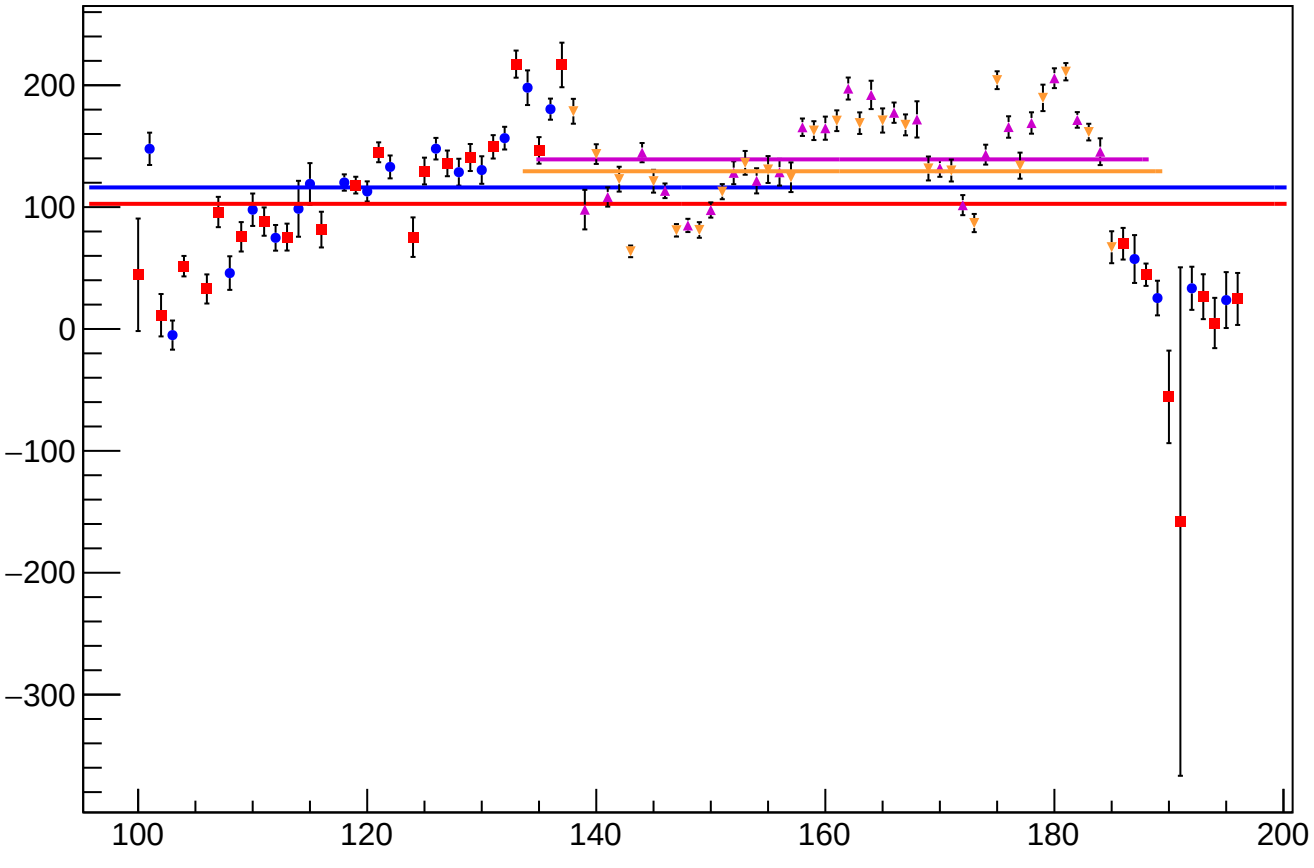
Left: 441.183+/-1.354 $\chi^2$/NDF: 5898.2/47

Right: 516.848+/-1.391 $\chi^2$/NDF: 10939.6/45

In: 480.107+/-1.457 $\chi^2$/NDF:6801.0/42

Out: 476.319+/-1.300 $\chi^2$/NDF:11552.3/50

All: 477.998+/-0.970 $\chi^2$/NDF: 18357.1/93




Right In: 116.154+/-2.519 $\chi^2$/NDF: 366.7/19

Left Out: 129.418+/-1.593 $\chi^2$/NDF:814.3/24

Right Out: 102.686+/-2.354 $\chi^2$/NDF: 481.5/25

Left In: 139.163+/-1.705 $\chi^2$/NDF:434.2/22

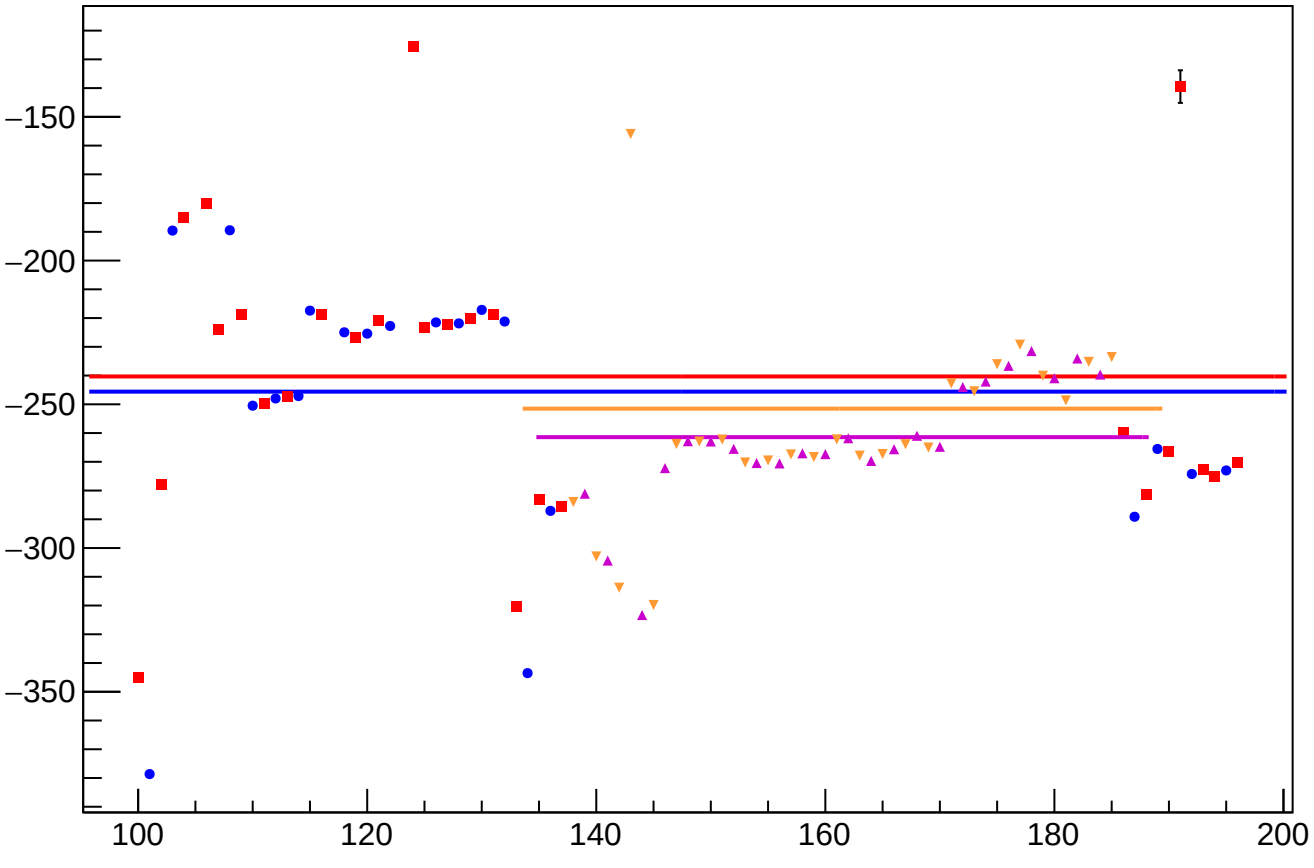
Left: 133.959+/-1.164 $\chi^2$/NDF: 1265.9/47

Right: 108.963+/-1.720 $\chi^2$/NDF: 863.5/45

In: 131.936+/-1.412 $\chi^2$/NDF:858.1/42

Out: 121.025+/-1.319 $\chi^2$/NDF:1384.2/50

All: 126.110+/-0.964 $\chi^2$/NDF: 2274.2/93




Right In: -245.596+/-0.138 $\chi^2$/NDF: 141960.5/19

Left Out: -251.508+/-0.075 $\chi^2$/NDF:254924.4/24

Right Out: -240.313+/-0.128 $\chi^2$/NDF: 105021.8/25

Left In: -261.425+/-0.078 $\chi^2$/NDF:69557.7/22

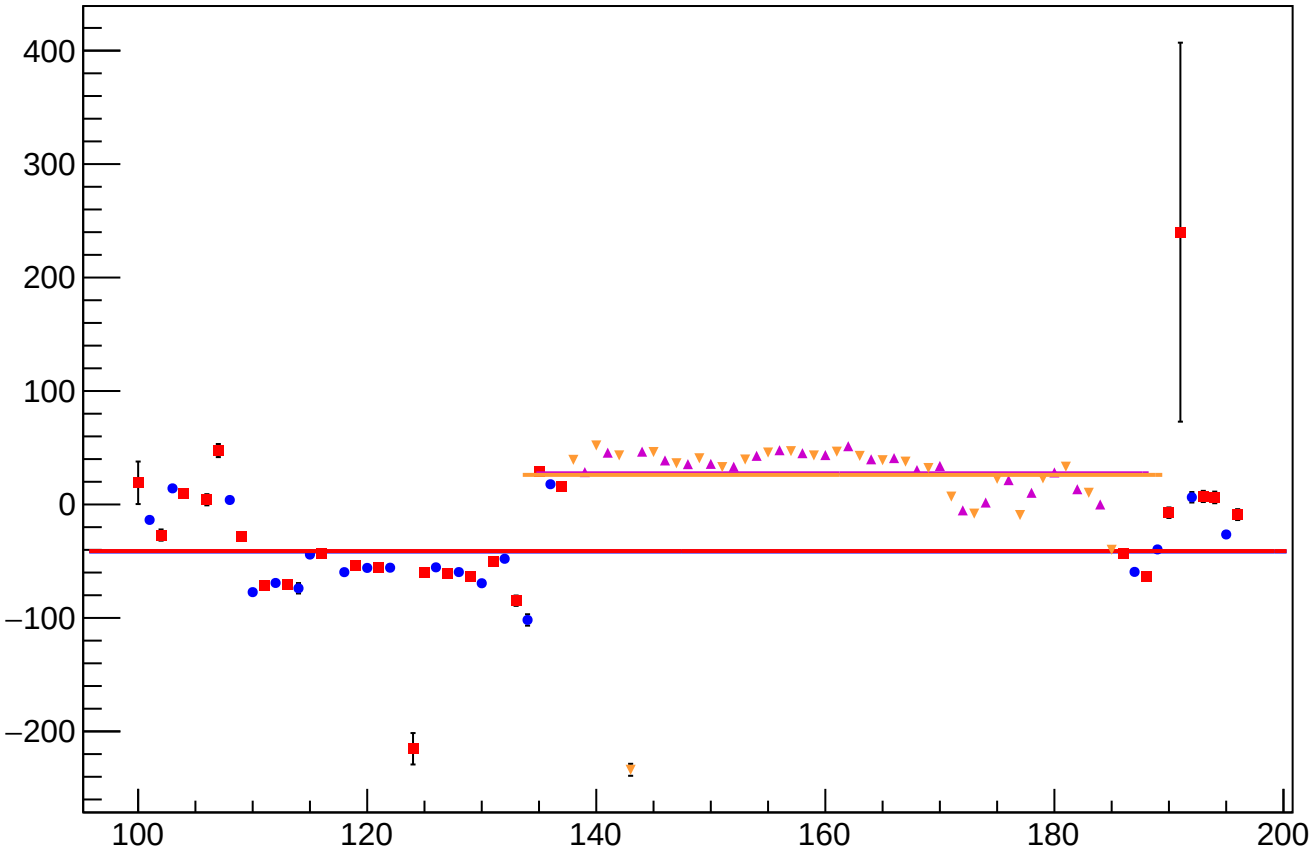
Left: -256.253+/-0.054 $\chi^2$/NDF: 332939.5/47

Right: -242.761+/-0.094 $\chi^2$/NDF: 247767.1/45

In: -257.607+/-0.068 $\chi^2$/NDF:221482.4/42

Out: -248.682+/-0.064 $\chi^2$/NDF:365632.9/50

All: -252.919+/-0.047 $\chi^2$/NDF: 596208.1/93




Right In: -41.449+/-0.661 $\chi^2$/NDF: 2571.2/19

Left Out: 26.087+/-0.390 $\chi^2$/NDF:4785.1/24

Right Out: -41.051+/-0.564 $\chi^2$/NDF: 2991.5/25

Left In: 27.466+/-0.396 $\chi^2$/NDF:1608.9/22

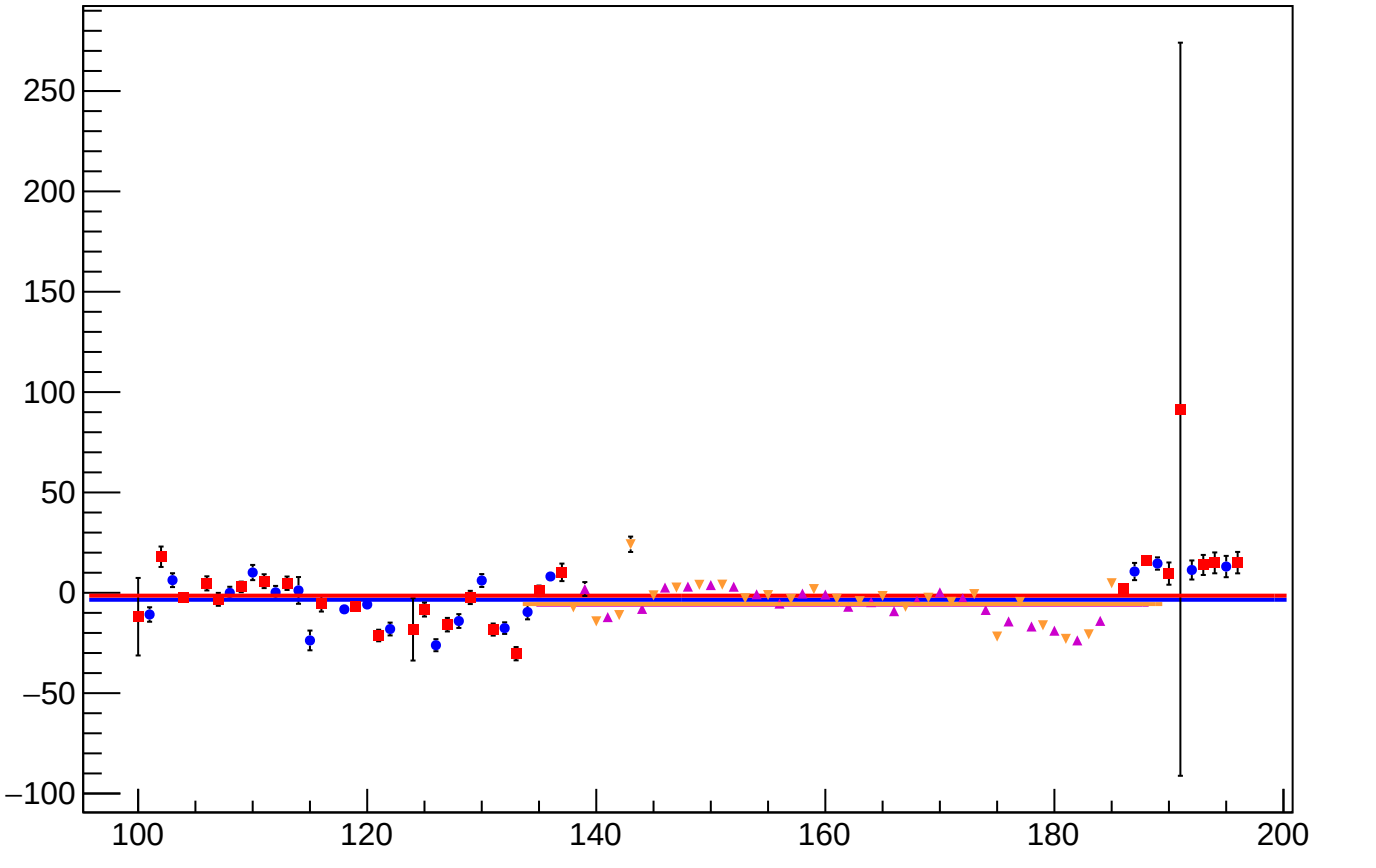
Left: 26.766+/-0.278 $\chi^2$/NDF: 6400.2/47

Right: -41.219+/-0.429 $\chi^2$/NDF: 5563.0/45

In: 9.295+/-0.340 $\chi^2$/NDF:12174.5/42

Out: 4.409+/-0.321 $\chi^2$/NDF:17360.7/50

All: 6.712+/-0.233 $\chi^2$/NDF: 29644.6/93




Right In: -3.469+/-0.706 $\chi^2$/NDF: 270.4/19

Left Out: -5.625+/-0.302 $\chi^2$/NDF:893.3/24

Right Out: -1.421+/-0.641 $\chi^2$/NDF: 328.1/25

Left In: -5.940+/-0.309 $\chi^2$/NDF:712.2/22

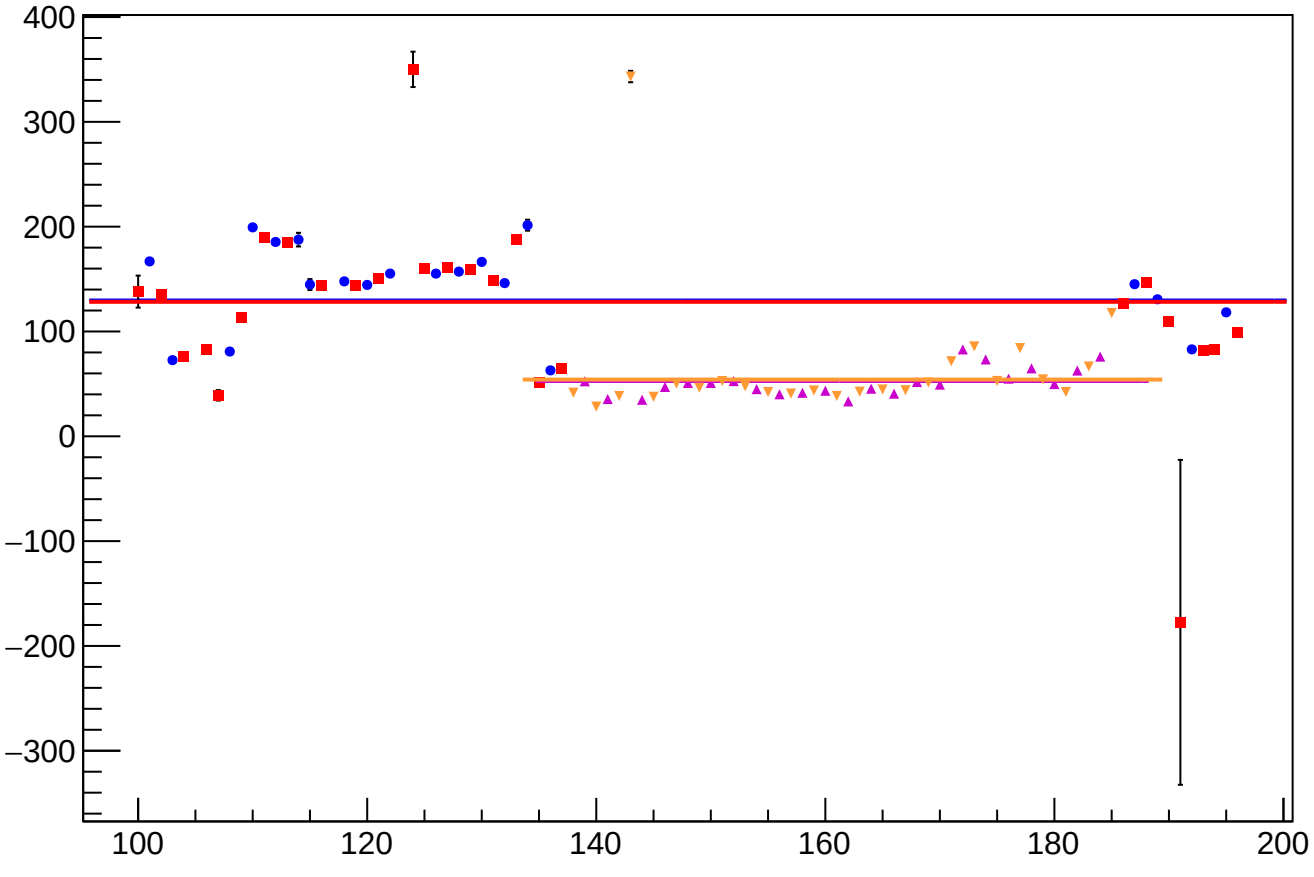
Left: -5.779+/-0.216 $\chi^2$/NDF: 1606.1/47

Right: -2.346+/-0.475 $\chi^2$/NDF: 603.1/45

In: -5.543+/-0.283 $\chi^2$/NDF:992.9/42

Out: -4.863+/-0.273 $\chi^2$/NDF:1256.6/50

All: -5.191+/-0.197 $\chi^2$/NDF: 2252.5/93




Right In: 129.552+/-0.692 $\chi^2$/NDF: 3819.9/19

Left Out: 54.123+/-0.387 $\chi^2$/NDF:4591.8/24

Right Out: 128.322+/-0.572 $\chi^2$/NDF: 4041.8/25

Left In: 52.797+/-0.393 $\chi^2$/NDF:978.1/22

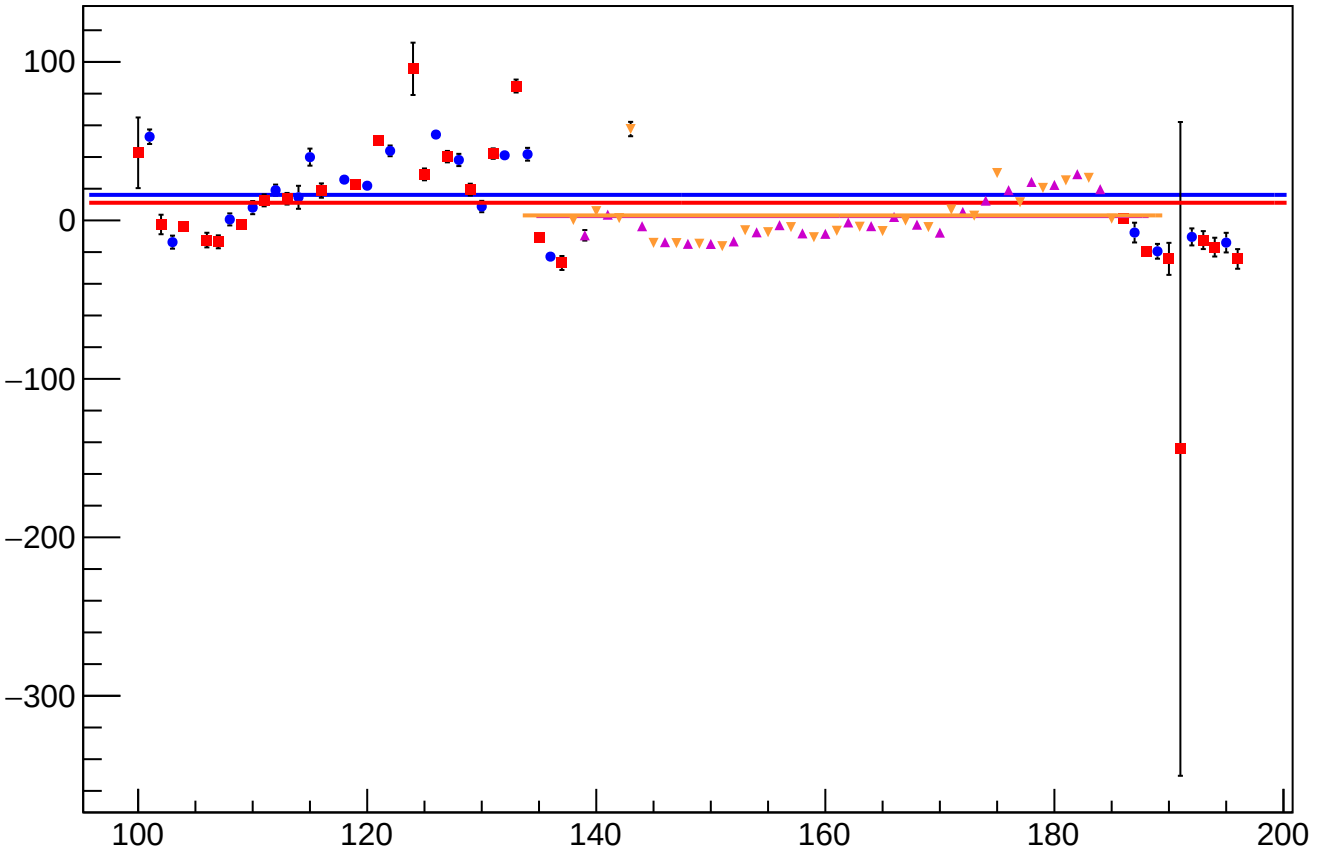
Left: 53.469+/-0.276 $\chi^2$/NDF: 5575.7/47

Right: 128.821+/-0.441 $\chi^2$/NDF: 7863.6/45

In: 71.474+/-0.342 $\chi^2$/NDF:14099.1/42

Out: 77.468+/-0.321 $\chi^2$/NDF:20182.9/50

All: 74.660+/-0.234 $\chi^2$/NDF: 34445.7/93




Right In: 16.117+/-0.821 $\chi^2$/NDF: 990.2/19

Left Out: 3.155+/-0.340 $\chi^2$/NDF:2012.4/24

Right Out: 11.134+/-0.766 $\chi^2$/NDF: 1170.1/25

Left In: 2.722+/-0.347 $\chi^2$/NDF:1735.2/22

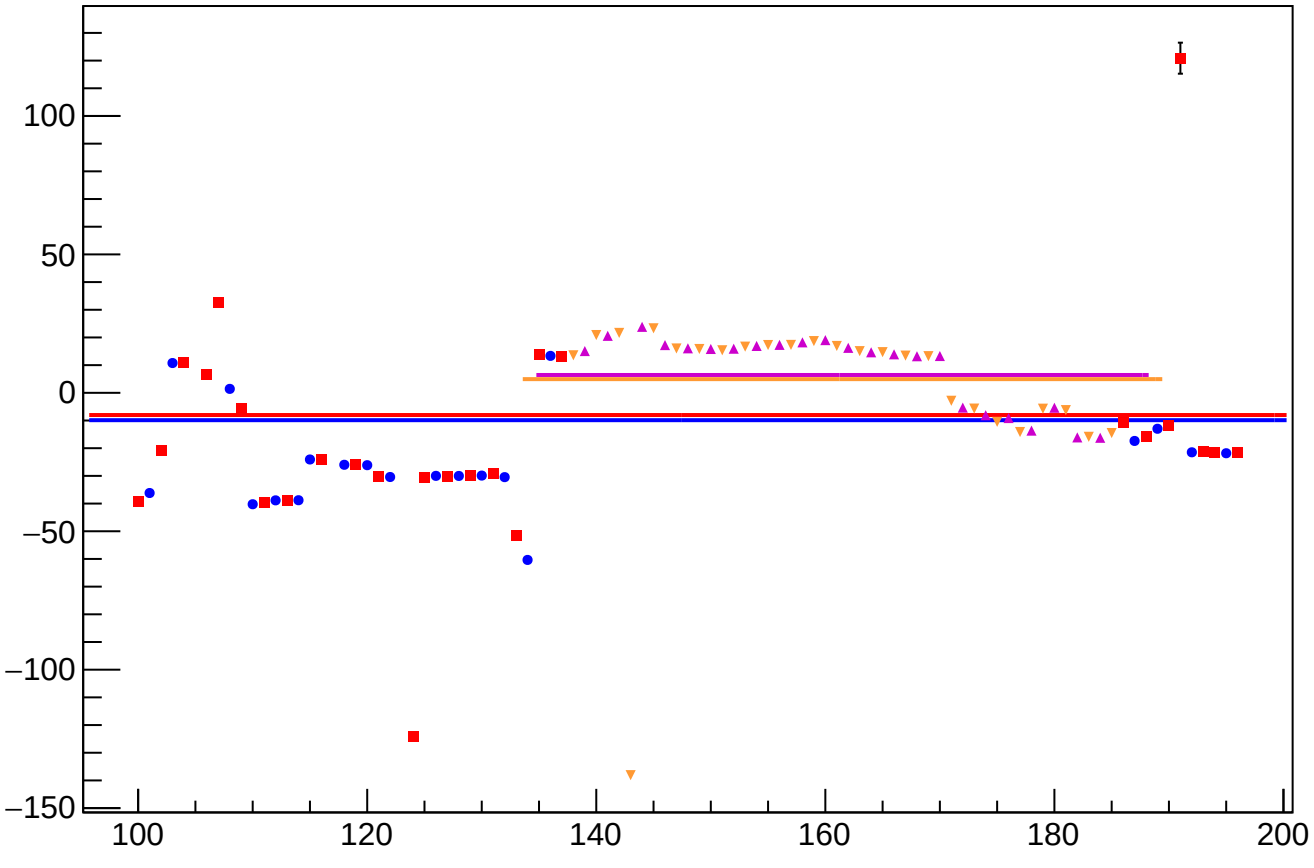
Left: 2.943+/-0.243 $\chi^2$/NDF: 3748.4/47

Right: 13.454+/-0.560 $\chi^2$/NDF: 2180.0/45

In: 4.750+/-0.319 $\chi^2$/NDF:2951.4/42

Out: 4.467+/-0.311 $\chi^2$/NDF:3273.1/50

All: 4.605+/-0.223 $\chi^2$/NDF: 6225.0/93




Right In: -9.881+/-0.042 $\chi^2$/NDF: 278901.8/19

Left Out: 4.946+/-0.015 $\chi^2$/NDF:1136506.7/24

Right Out: -8.021+/-0.040 $\chi^2$/NDF: 253819.4/25

Left In: 6.444+/-0.015 $\chi^2$/NDF:729692.1/22

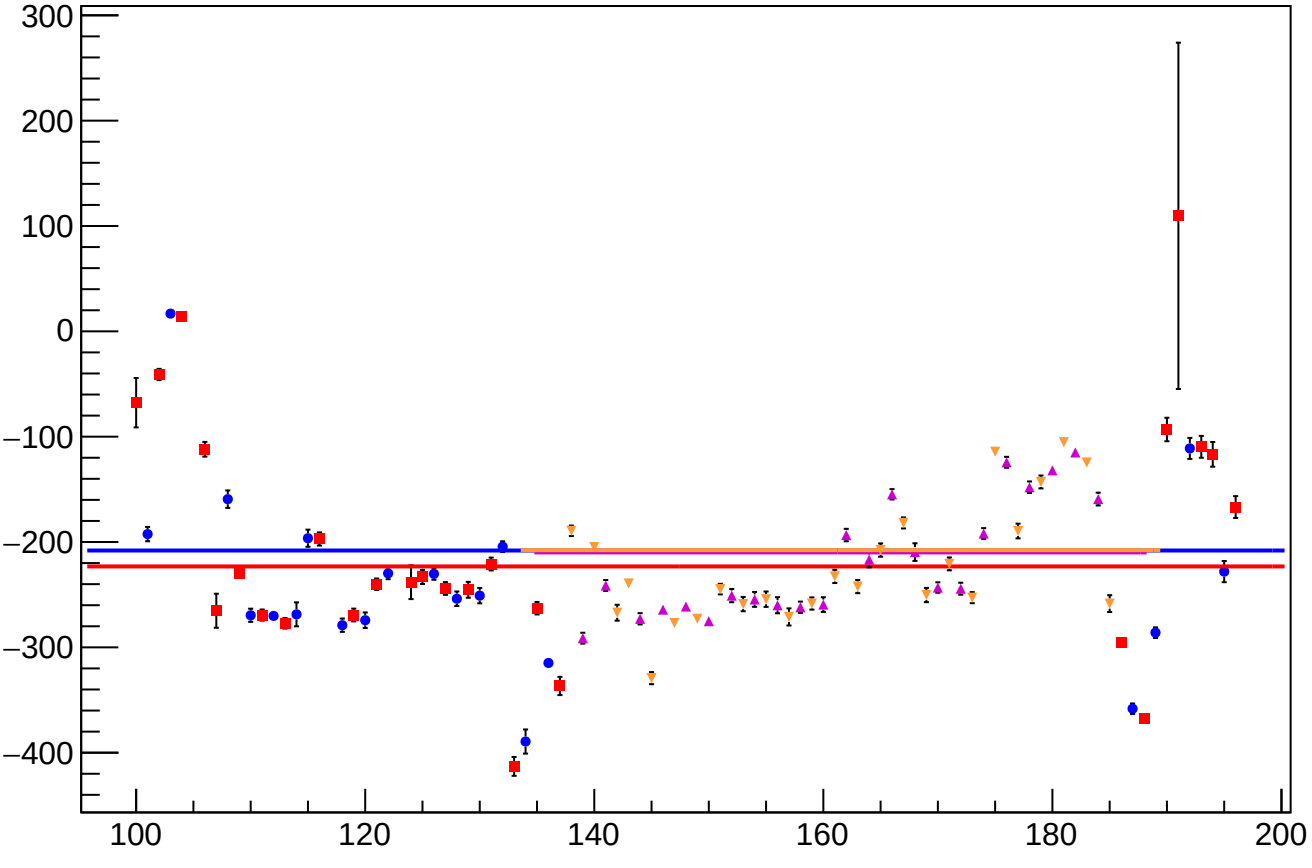
Left: 5.689+/-0.011 $\chi^2$/NDF: 1871009.0/47

Right: -8.913+/-0.029 $\chi^2$/NDF: 533750.2/45

In: 4.509+/-0.014 $\chi^2$/NDF:1142888.3/42

Out: 3.318+/-0.014 $\chi^2$/NDF:1481487.1/50

All: 3.906+/-0.010 $\chi^2$/NDF: 2627838.7/93




Right In: -208.057+/-1.294 $\chi^2$/NDF: 8610.9/19

Left Out: -207.745+/-1.070 $\chi^2$/NDF:3487.2/24

Right Out: -223.178+/-1.140 $\chi^2$/NDF: 11964.9/25

Left In: -209.875+/-1.101 $\chi^2$/NDF:3011.9/22

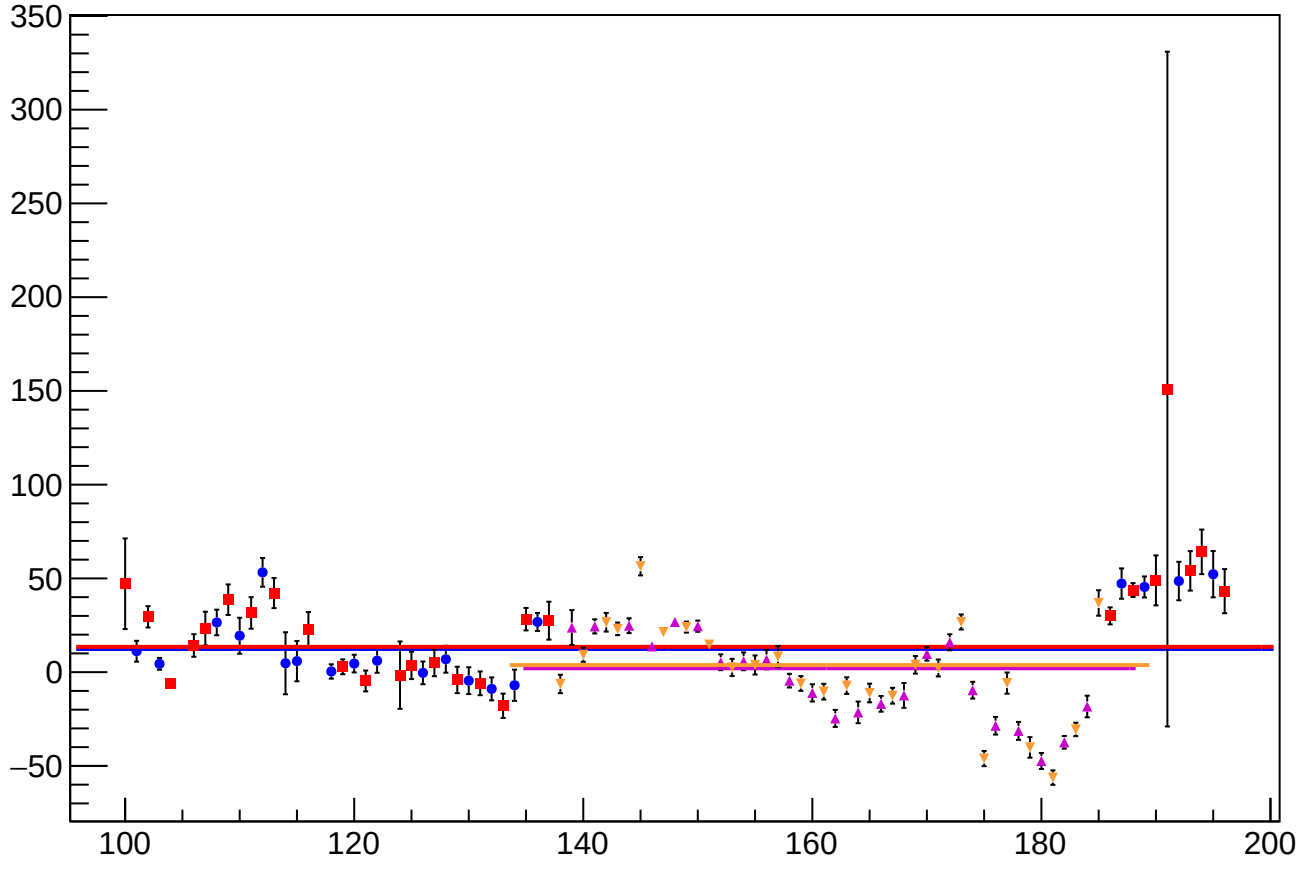
Left: -208.779+/-0.767 $\chi^2$/NDF: 6500.9/47

Right: -216.575+/-0.855 $\chi^2$/NDF: 20652.7/45

In: -209.112+/-0.839 $\chi^2$/NDF:11623.9/42

Out: -214.974+/-0.780 $\chi^2$/NDF:15549.6/50

All: -212.255+/-0.571 $\chi^2$/NDF: 27199.7/93




Right In: 12.386+/-1.352 $\chi^2$/NDF: 167.0/19

Left Out: 3.770+/-0.787 $\chi^2$/NDF:972.1/24

Right Out: 13.500+/-1.199 $\chi^2$/NDF: 301.4/25

Left In: 2.079+/-0.820 $\chi^2$/NDF:770.2/22

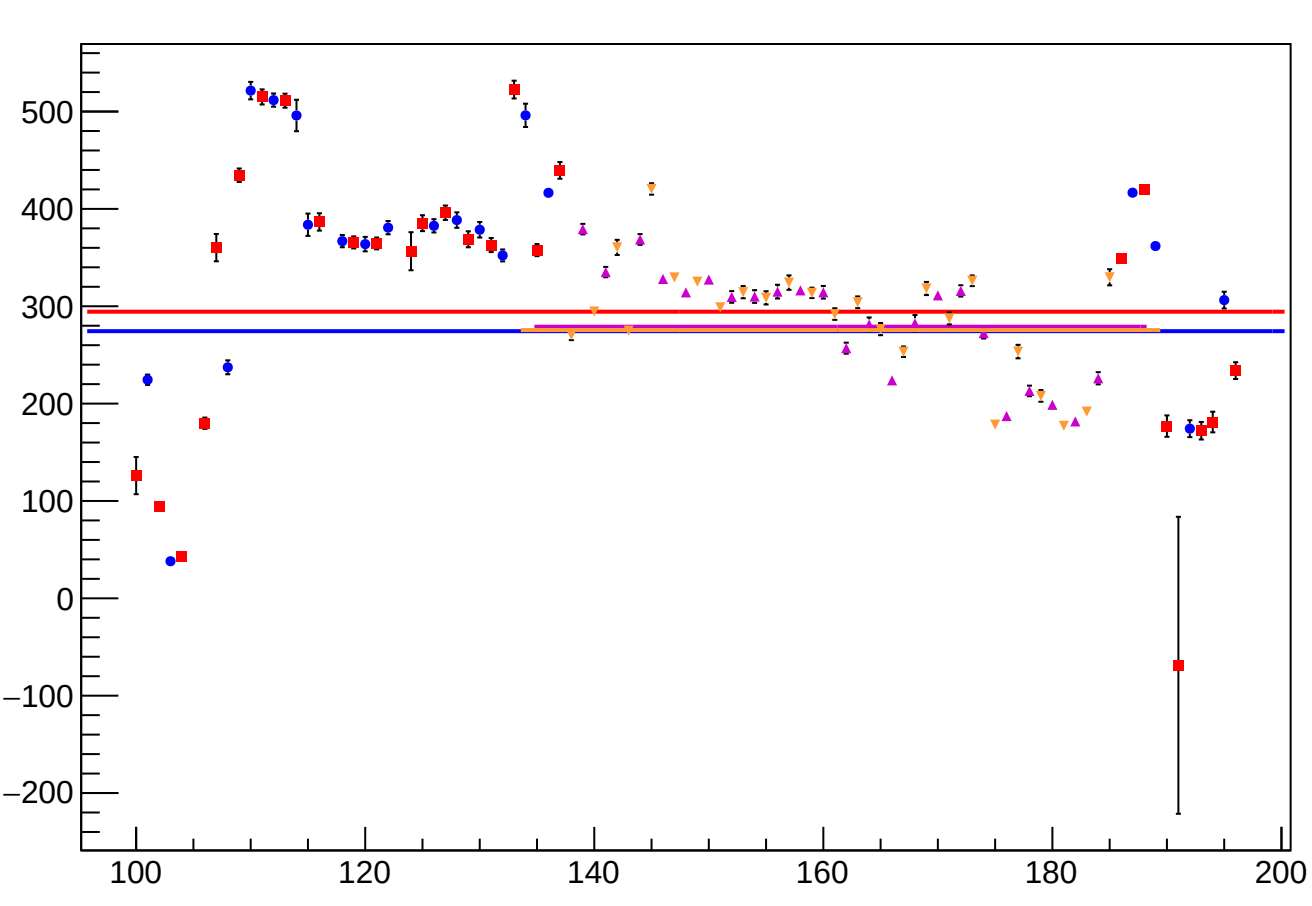
Left: 2.959+/-0.568 $\chi^2$/NDF: 1744.5/47

Right: 13.010+/-0.897 $\chi^2$/NDF: 468.8/45

In: 4.850+/-0.701 $\chi^2$/NDF:979.7/42

Out: 6.700+/-0.658 $\chi^2$/NDF:1319.6/50

All: 5.834+/-0.480 $\chi^2$/NDF: 2302.9/93




Right In: 274.403+/-1.251 $\chi^2$/NDF: 17413.4/19

Left Out: 275.536+/-1.062 $\chi^2$/NDF:3323.1/24

Right Out: 294.419+/-1.066 $\chi^2$/NDF: 21539.0/25

Left In: 278.989+/-1.089 $\chi^2$/NDF:3114.7/22

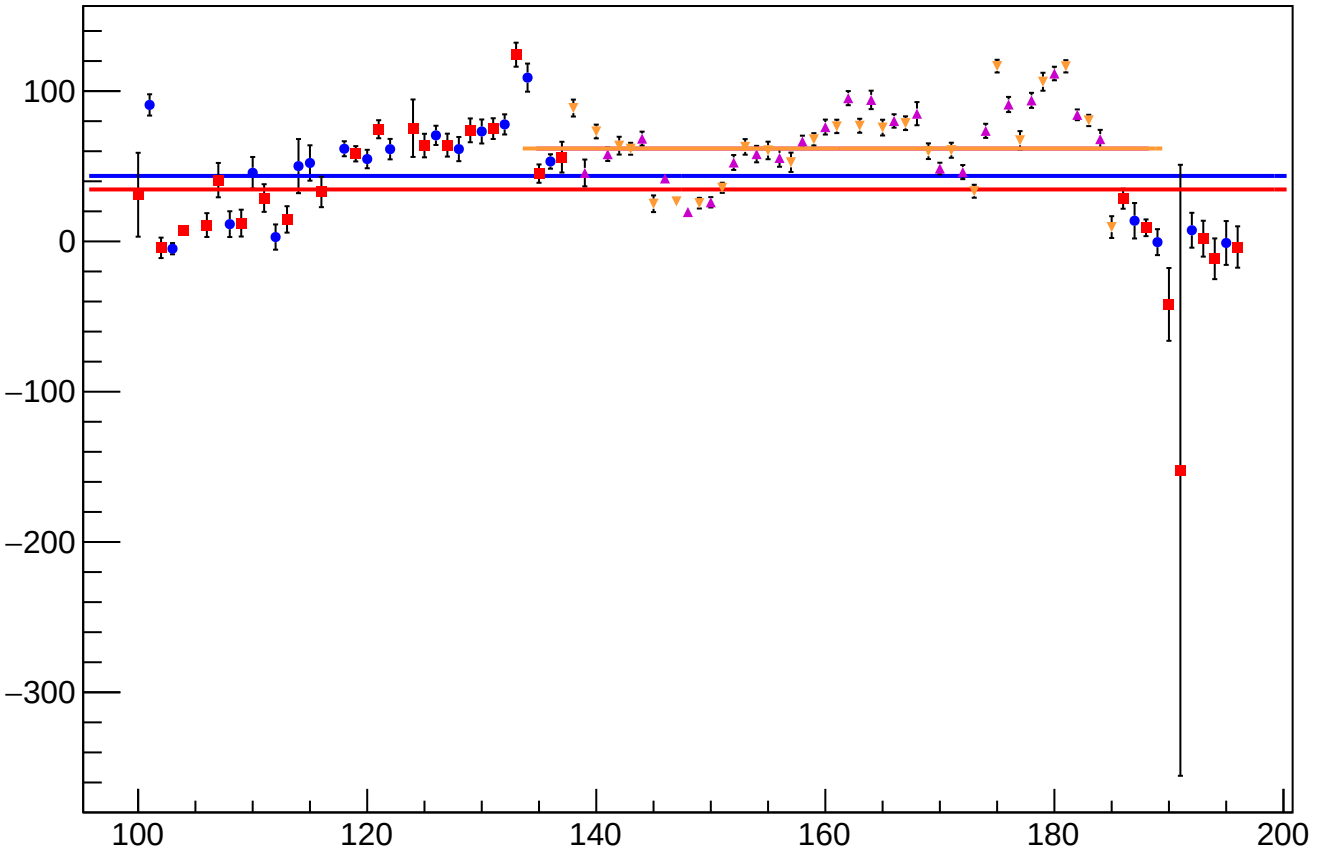
Left: 277.219+/-0.760 $\chi^2$/NDF: 6443.0/47

Right: 286.003+/-0.811 $\chi^2$/NDF: 39100.7/45

In: 277.013+/-0.821 $\chi^2$/NDF:20535.8/42

Out: 284.944+/-0.752 $\chi^2$/NDF:25019.7/50

All: 281.326+/-0.555 $\chi^2$/NDF: 45606.1/93




Right In: 43.568+/-1.597 $\chi^2$/NDF: 441.4/19

Left Out: 61.818+/-0.907 $\chi^2$/NDF:959.5/24

Right Out: 34.569+/-1.463 $\chi^2$/NDF: 484.1/25

Left In: 61.763+/-0.939 $\chi^2$/NDF:736.0/22

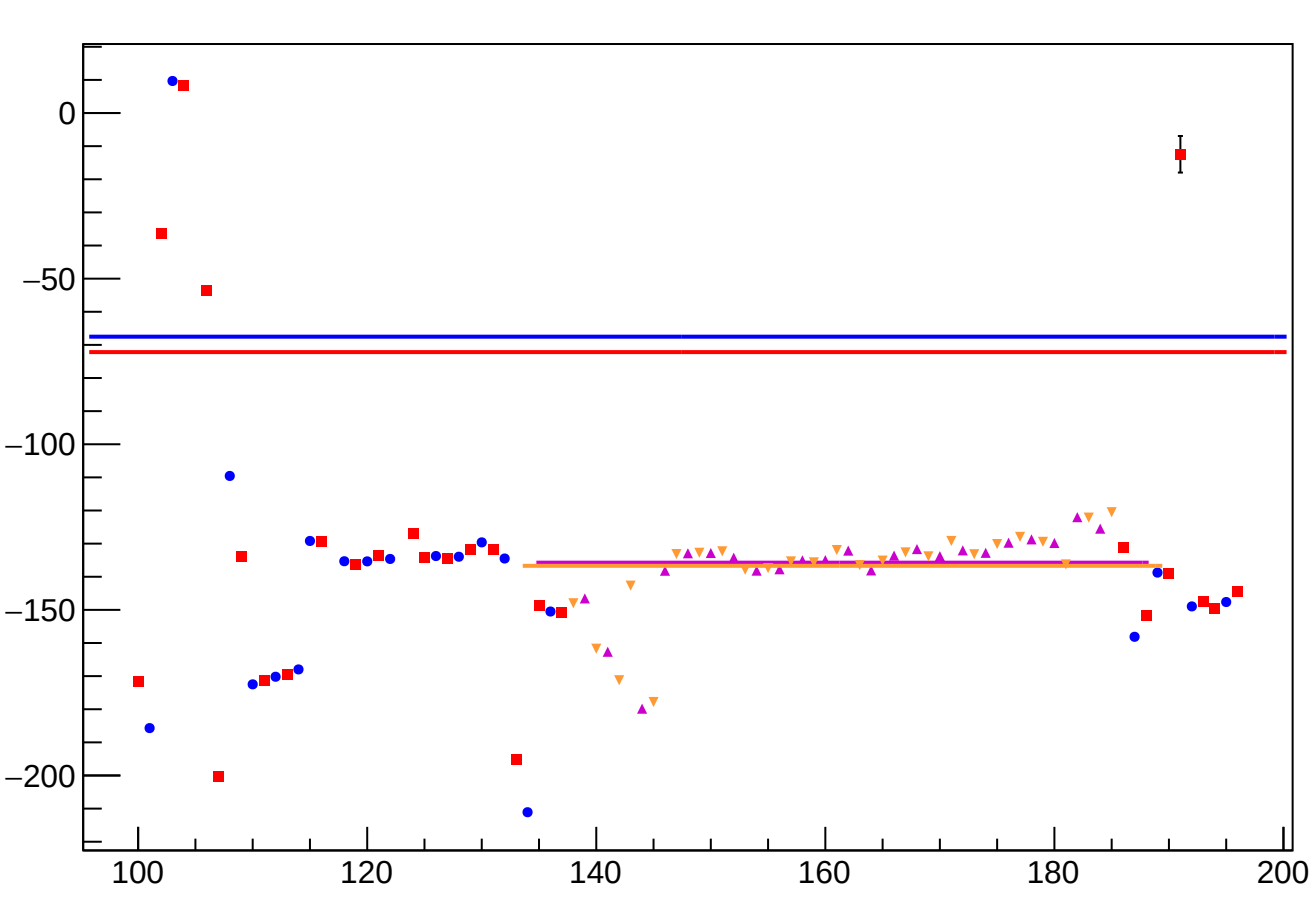
Left: 61.791+/-0.652 $\chi^2$/NDF: 1695.5/47

Right: 38.677+/-1.079 $\chi^2$/NDF: 942.7/45

In: 57.090+/-0.809 $\chi^2$/NDF:1273.9/42

Out: 54.249+/-0.771 $\chi^2$/NDF:1694.0/50

All: 55.601+/-0.558 $\chi^2$/NDF: 2974.3/93




Right In: -67.520+/-0.069 $\chi^2$/NDF: 1370384.3/19

Left Out: -136.695+/-0.042 $\chi^2$/NDF:79006.9/24

Right Out: -72.176+/-0.068 $\chi^2$/NDF: 1109540.9/25

Left In: -135.745+/-0.043 $\chi^2$/NDF:63681.9/22

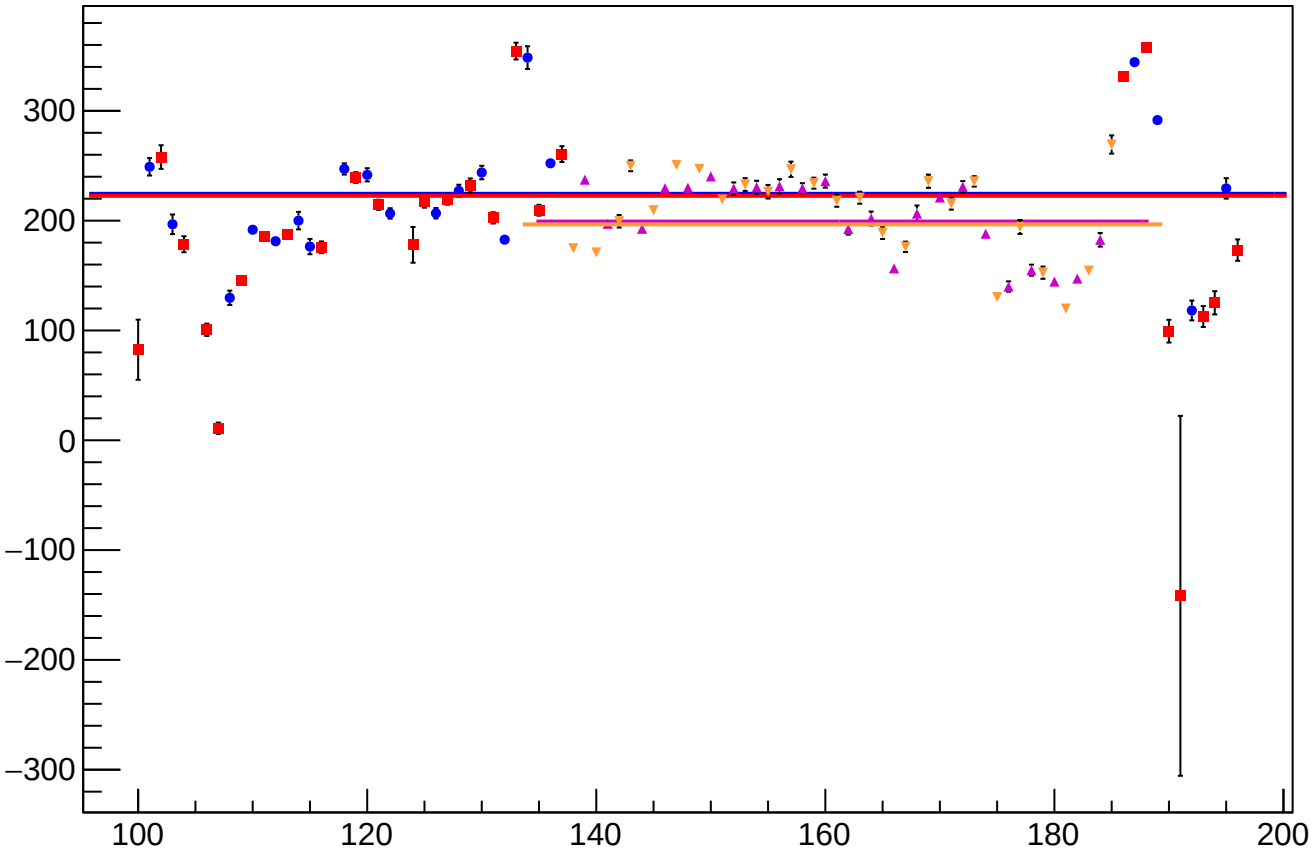
Left: -136.226+/-0.030 $\chi^2$/NDF: 142938.0/47

Right: -69.886+/-0.048 $\chi^2$/NDF: 2482241.4/45

In: -116.775+/-0.036 $\chi^2$/NDF:2140437.0/42

Out: -118.666+/-0.036 $\chi^2$/NDF:1840276.2/50

All: -117.734+/-0.026 $\chi^2$/NDF: 3982083.2/93




Right In: 224.425+/-1.182 $\chi^2$/NDF: 1950.6/19

Left Out: 196.615+/-0.946 $\chi^2$/NDF:2075.5/24

Right Out: 222.625+/-1.010 $\chi^2$/NDF: 7863.1/25

Left In: 199.153+/-0.973 $\chi^2$/NDF:1294.6/22

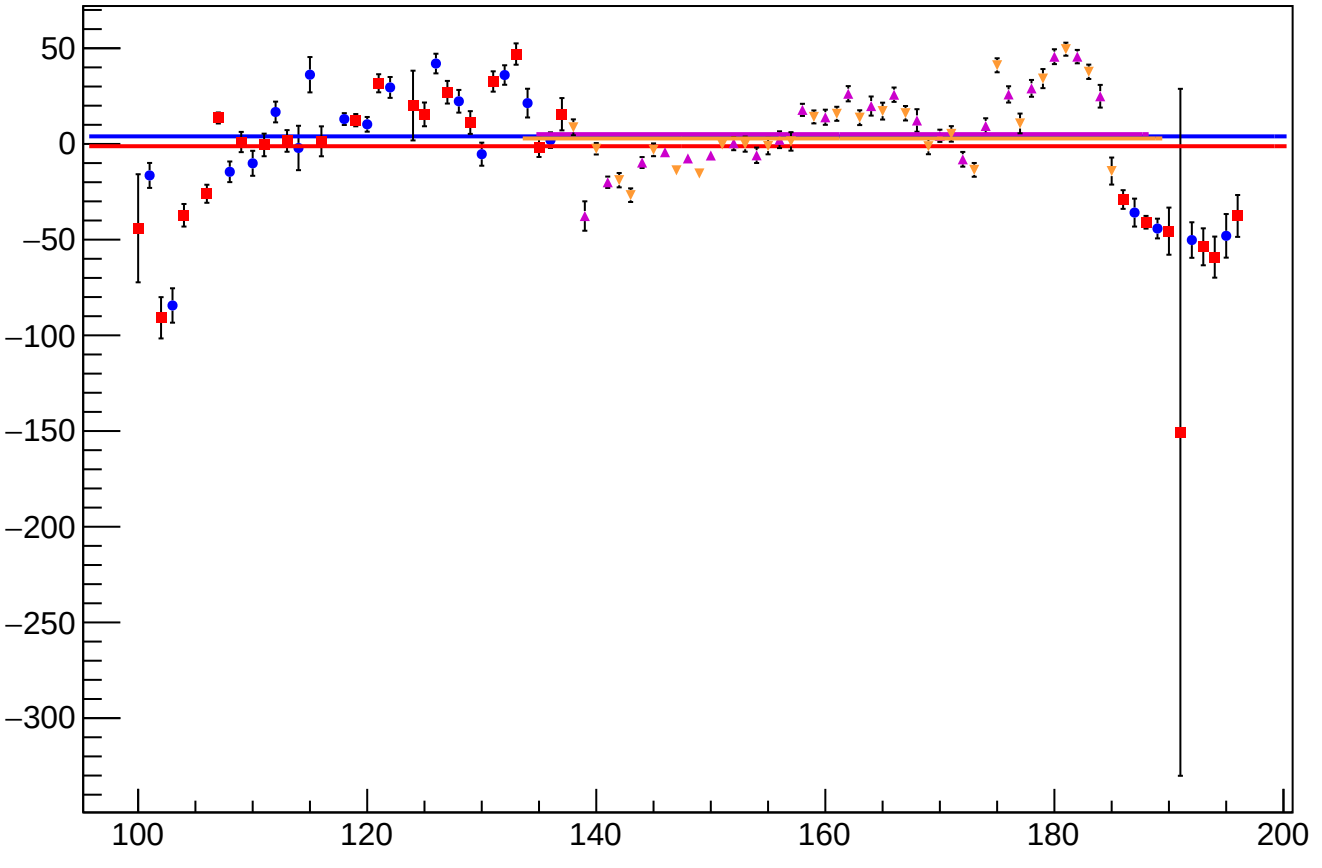
Left: 197.849+/-0.678 $\chi^2$/NDF: 3373.6/47

Right: 223.385+/-0.768 $\chi^2$/NDF: 9815.1/45

In: 209.363+/-0.751 $\chi^2$/NDF:3517.9/42

Out: 208.773+/-0.691 $\chi^2$/NDF:10291.7/50

All: 209.043+/-0.508 $\chi^2$/NDF: 13809.9/93




Right In: 3.960+/-1.251 $\chi^2$/NDF: 457.9/19

Left Out: 2.870+/-0.693 $\chi^2$/NDF:752.8/24

Right Out: -1.187+/-1.095 $\chi^2$/NDF: 644.1/25

Left In: 5.126+/-0.718 $\chi^2$/NDF:628.6/22

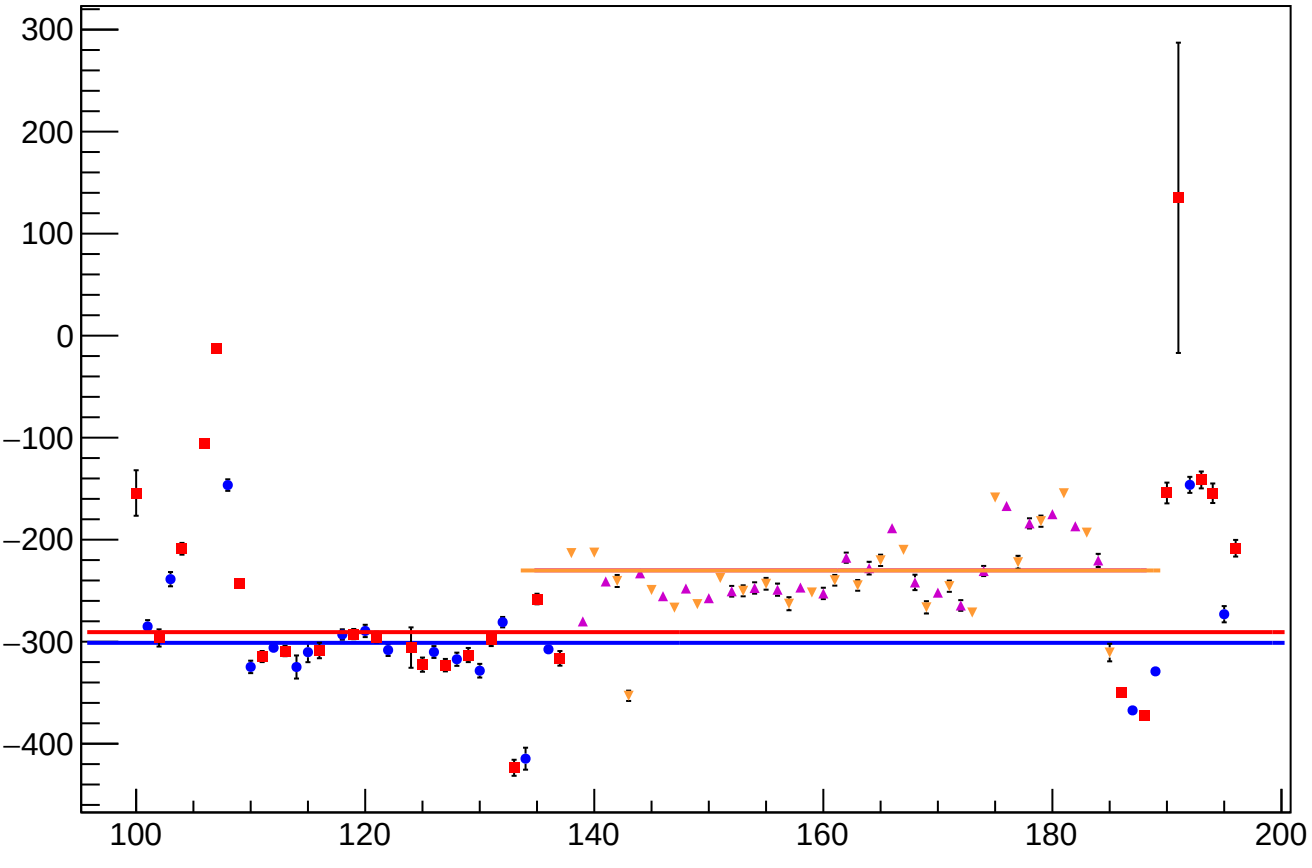
Left: 3.958+/-0.499 $\chi^2$/NDF: 1386.5/47

Right: 1.045+/-0.824 $\chi^2$/NDF: 1111.5/45

In: 4.837+/-0.623 $\chi^2$/NDF:1087.1/42

Out: 1.710+/-0.586 $\chi^2$/NDF:1406.7/50

All: 3.178+/-0.427 $\chi^2$/NDF: 2507.1/93




Right In: -301.123+/-1.251 $\chi^2$/NDF: 1791.1/19

Left Out: -230.182+/-0.939 $\chi^2$/NDF:2181.9/24

Right Out: -290.629+/-1.023 $\chi^2$/NDF: 9274.9/25

Left In: -230.047+/-0.961 $\chi^2$/NDF:1094.0/22

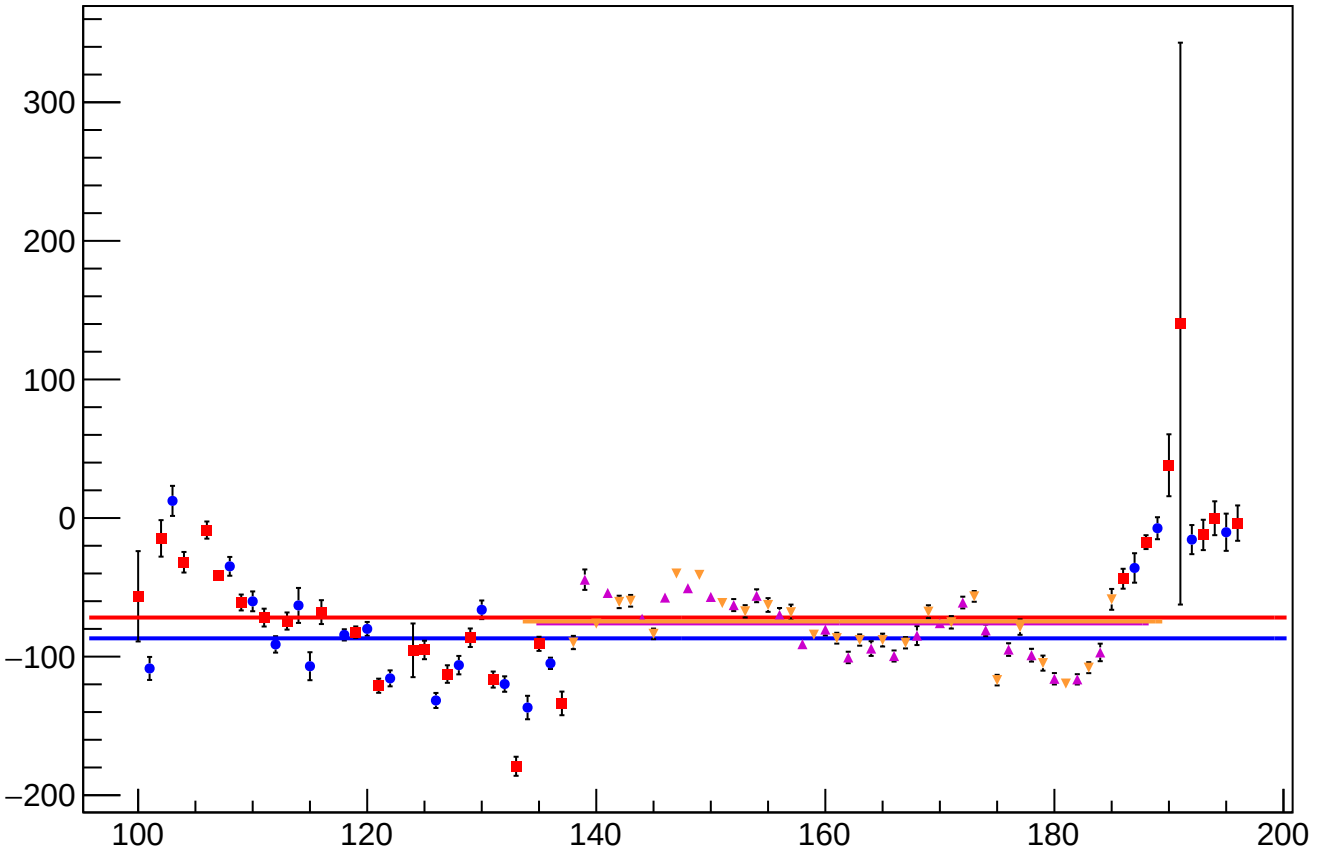
Left: -230.116+/-0.672 $\chi^2$/NDF: 3275.9/47

Right: -294.832+/-0.792 $\chi^2$/NDF: 11108.2/45

In: -256.411+/-0.762 $\chi^2$/NDF:4914.2/42

Out: -257.825+/-0.692 $\chi^2$/NDF:13352.0/50

All: -257.186+/-0.512 $\chi^2$/NDF: 18268.1/93




Right In: -86.809+/-1.468 $\chi^2$/NDF: 575.1/19

Left Out: -74.644+/-0.801 $\chi^2$/NDF:831.0/24

Right Out: -71.794+/-1.318 $\chi^2$/NDF: 1004.9/25

Left In: -76.025+/-0.824 $\chi^2$/NDF:646.0/22

Left: -75.315+/-0.574 $\chi^2$/NDF: 1478.5/47

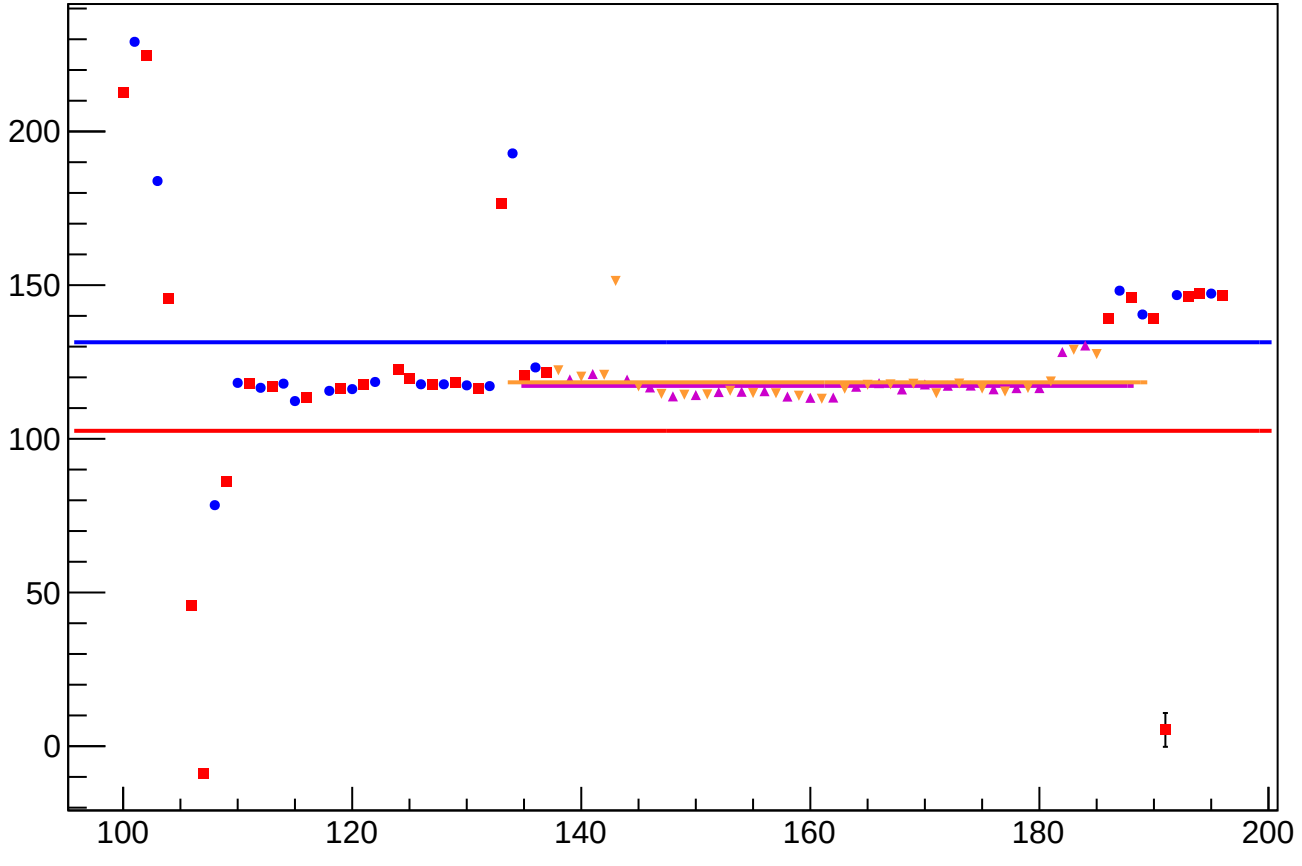
Right: -78.495+/-0.981 $\chi^2$/NDF: 1637.9/45

In: -78.610+/-0.719 $\chi^2$/NDF:1262.2/42

Out: -73.875+/-0.684 $\chi^2$/NDF:1839.3/50

All: -76.127+/-0.496 $\chi^2$/NDF: 3124.3/93

reg_asym_atl1r2_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 131.417+/-0.082 $\chi^2$/NDF: 189389.1/19

Left Out: 118.382+/-0.037 $\chi^2$/NDF:34938.1/24

Right Out: 102.604+/-0.070 $\chi^2$/NDF: 702807.9/25

Left In: 117.225+/-0.038 $\chi^2$/NDF:10227.9/22

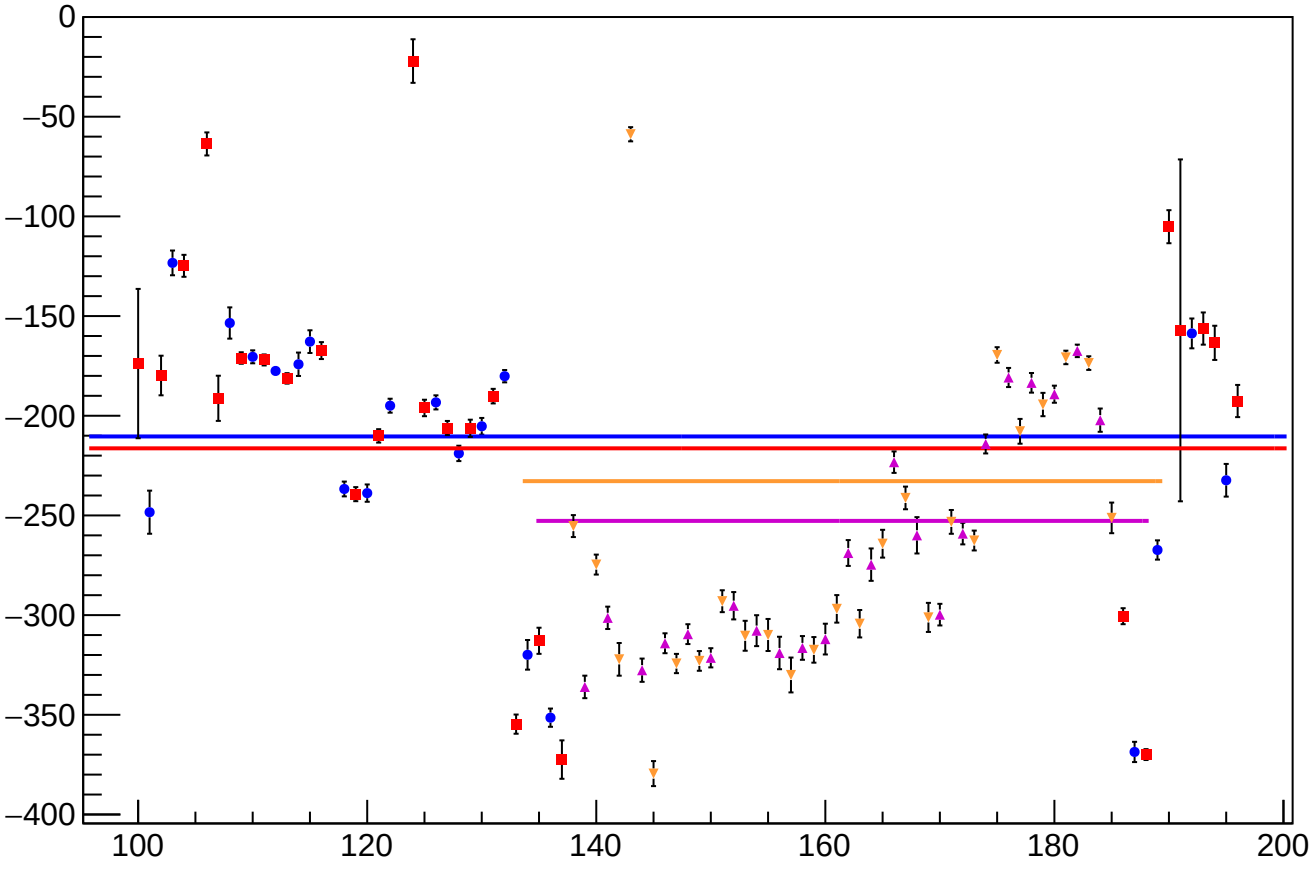
Left: 117.809+/-0.026 $\chi^2$/NDF: 45643.3/47

Right: 114.901+/-0.053 $\chi^2$/NDF: 963737.1/45

In: 119.713+/-0.034 $\chi^2$/NDF:224587.4/42

Out: 114.925+/-0.033 $\chi^2$/NDF:776998.7/50

All: 117.233+/-0.024 $\chi^2$/NDF: 1011769.3/93




Right In: -210.385+/-0.968 $\chi^2$/NDF: 3271.6/19

Left Out: -232.800+/-1.072 $\chi^2$/NDF:5764.0/24

Right Out: -216.345+/-0.874 $\chi^2$/NDF: 7448.8/25

Left In: -252.738+/-1.131 $\chi^2$/NDF:2913.9/22

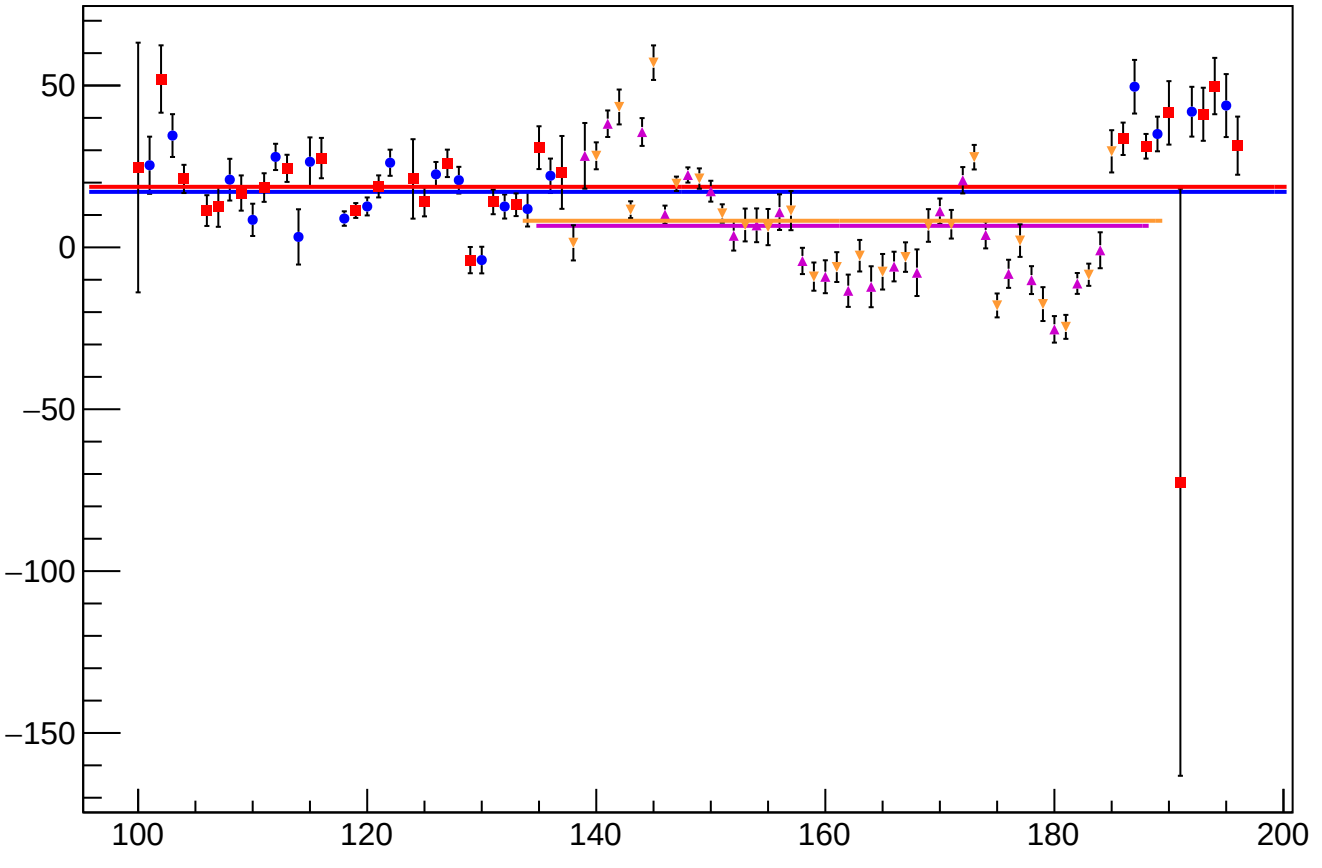
Left: -242.237+/-0.778 $\chi^2$/NDF: 8841.6/47

Right: -213.667+/-0.649 $\chi^2$/NDF: 10741.3/45

In: -228.291+/-0.735 $\chi^2$/NDF:6995.3/42

Out: -222.916+/-0.677 $\chi^2$/NDF:13354.3/50

All: -225.384+/-0.498 $\chi^2$/NDF: 20378.5/93




Right In: 17.149+/-1.006 $\chi^2$/NDF: 120.3/19

Left Out: 8.222+/-0.803 $\chi^2$/NDF:457.9/24

Right Out: 18.705+/-0.958 $\chi^2$/NDF: 119.1/25

Left In: 6.657+/-0.858 $\chi^2$/NDF:354.8/22

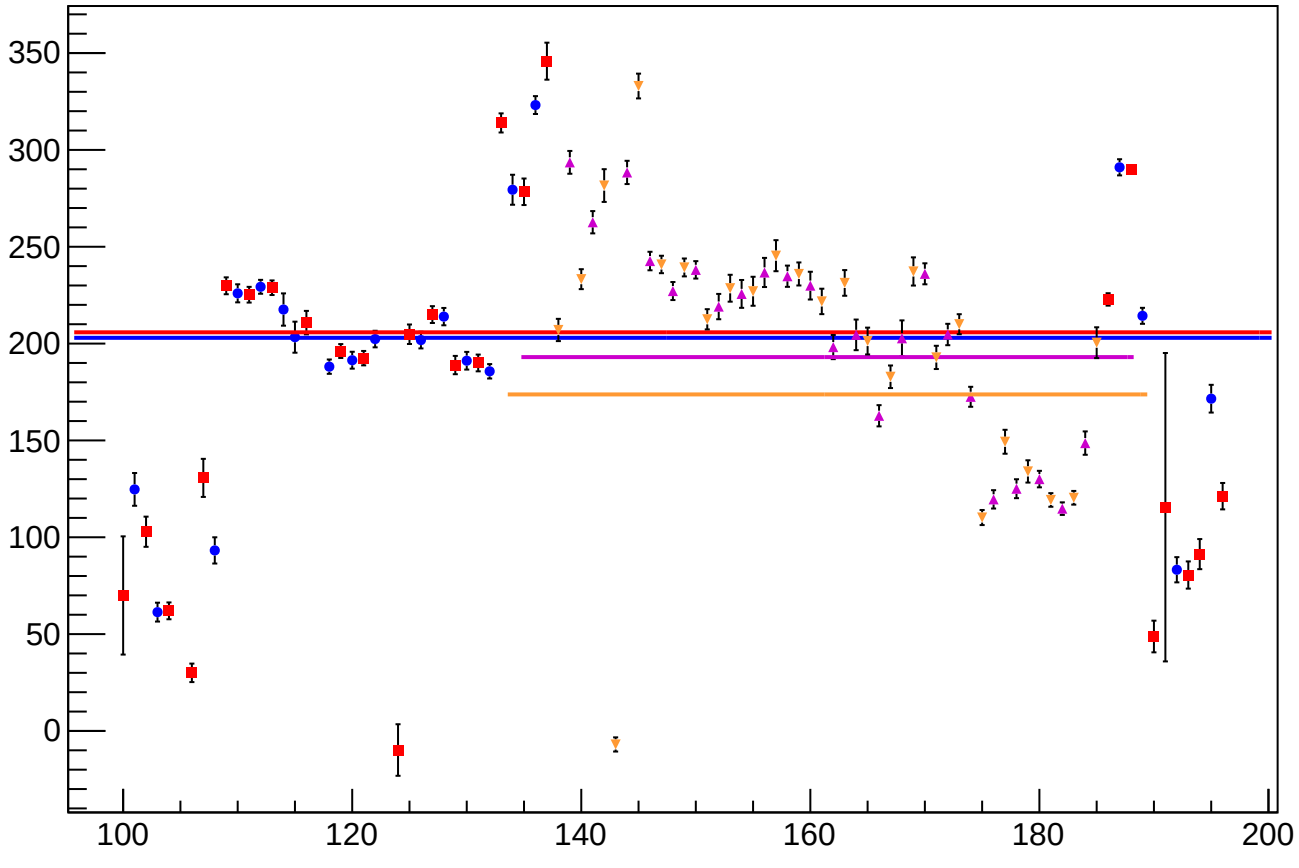
Left: 7.492+/-0.586 $\chi^2$/NDF: 814.5/47

Right: 17.965+/-0.694 $\chi^2$/NDF: 240.6/45

In: 11.077+/-0.653 $\chi^2$/NDF:538.1/42

Out: 12.549+/-0.615 $\chi^2$/NDF:647.3/50

All: 11.856+/-0.448 $\chi^2$/NDF: 1188.1/93




Right In: 202.984+/-1.079 $\chi^2$/NDF: 2919.4/19

Left Out: 173.752+/-1.069 $\chi^2$/NDF:5260.7/24

Right Out: 205.821+/-0.940 $\chi^2$/NDF: 6458.0/25

Left In: 193.026+/-1.122 $\chi^2$/NDF:2512.0/22

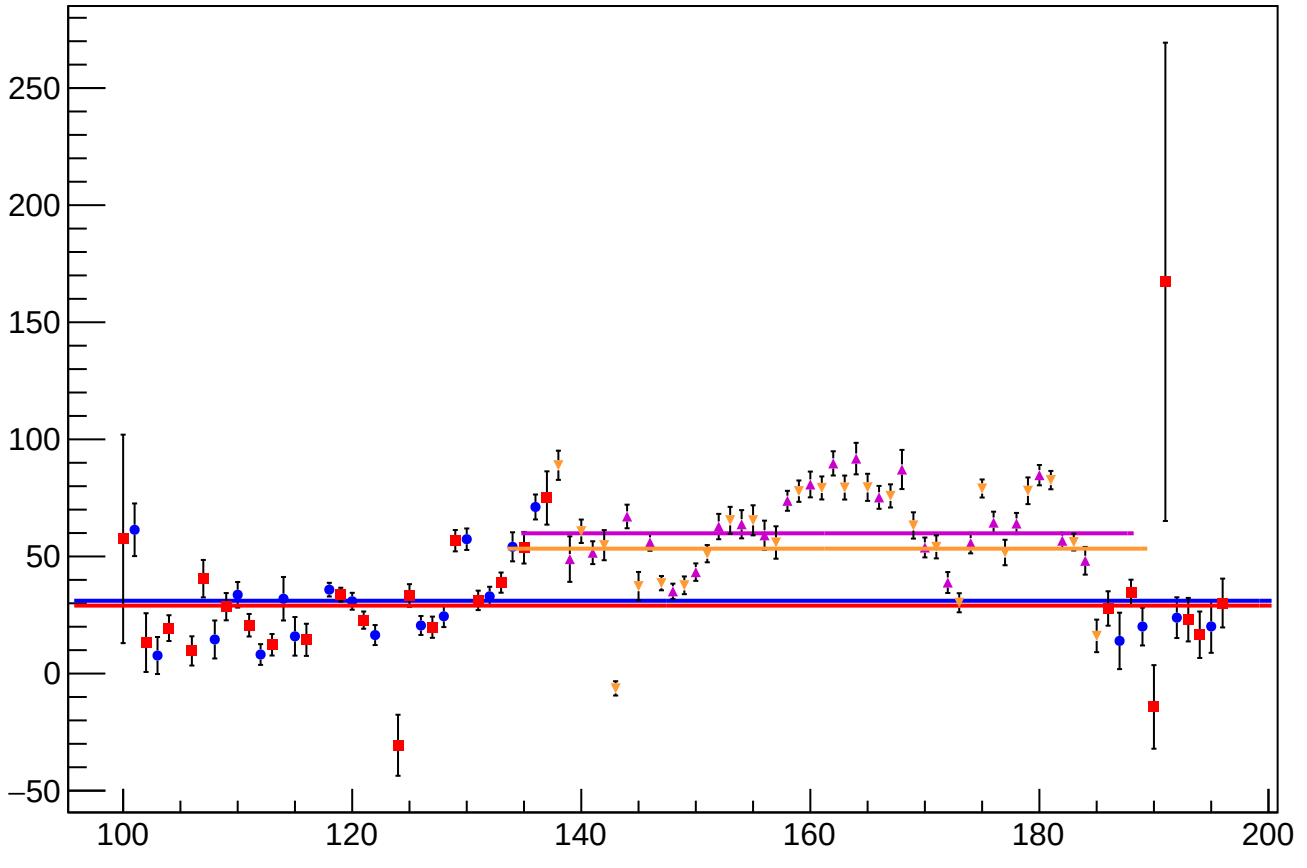
Left: 182.920+/-0.774 $\chi^2$/NDF: 7927.5/47

Right: 204.597+/-0.709 $\chi^2$/NDF: 9381.4/45

In: 198.199+/-0.778 $\chi^2$/NDF:5472.4/42

Out: 191.834+/-0.706 $\chi^2$/NDF:12226.5/50

All: 194.708+/-0.523 $\chi^2$/NDF: 17735.6/93




Right In: 31.088+/-1.179 $\chi^2$/NDF: 182.8/19

Left Out: 53.331+/-0.922 $\chi^2$/NDF:778.9/24

Right Out: 29.016+/-1.130 $\chi^2$/NDF: 151.6/25

Left In: 59.887+/-0.977 $\chi^2$/NDF:251.2/22

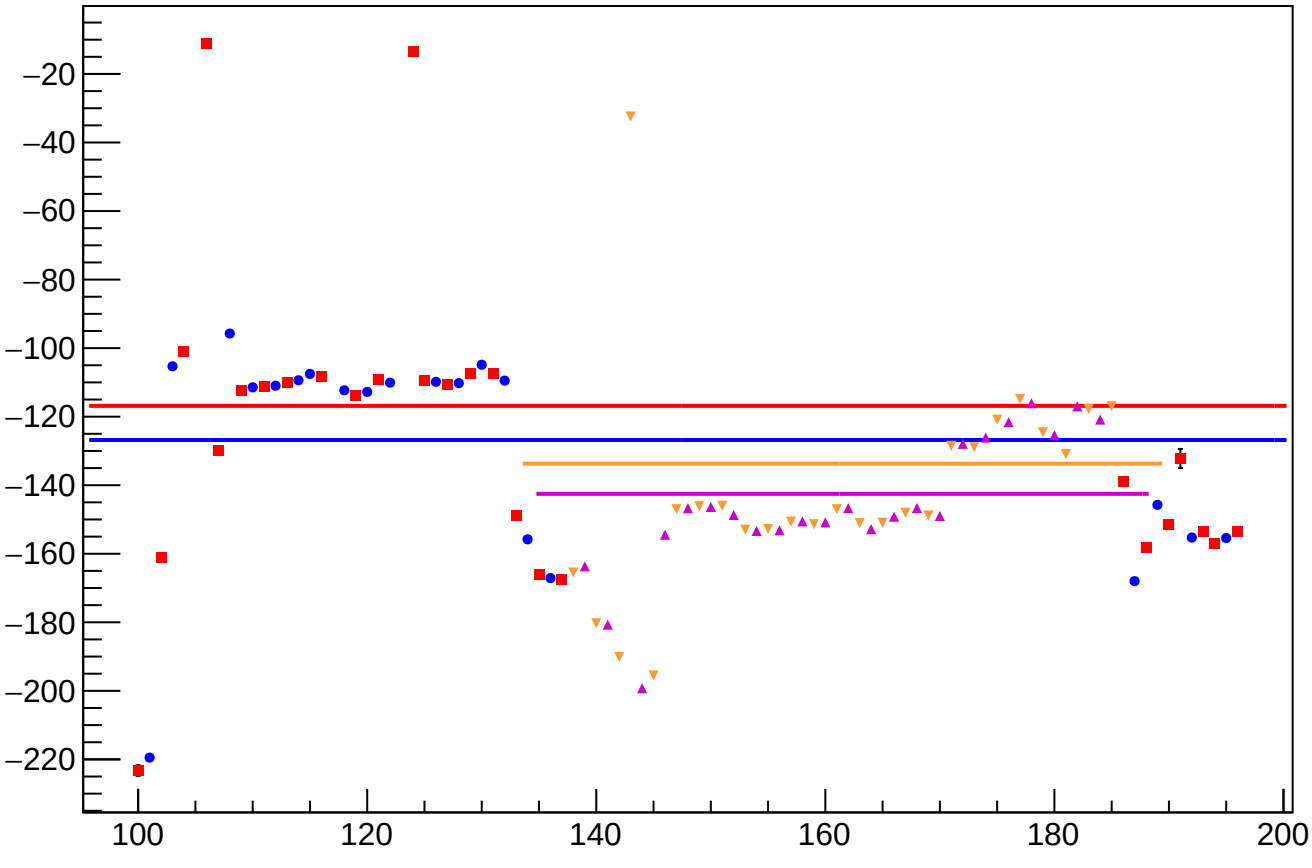
Left: 56.419+/-0.670 $\chi^2$/NDF: 1053.9/47

Right: 30.008+/-0.816 $\chi^2$/NDF: 336.0/45

In: 48.169+/-0.752 $\chi^2$/NDF:787.7/42

Out: 43.620+/-0.714 $\chi^2$/NDF:1208.4/50

All: 45.777+/-0.518 $\chi^2$/NDF: 2015.4/93




Right In: -126.810+/-0.072 $\chi^2$/NDF: 149063.8/19

Left Out: -133.709+/-0.043 $\chi^2$/NDF:675925.6/24

Right Out: -116.849+/-0.066 $\chi^2$/NDF: 453773.1/25

Left In: -142.518+/-0.044 $\chi^2$/NDF:178481.1/22

Left: -137.954+/-0.031 $\chi^2$/NDF: 874788.8/47

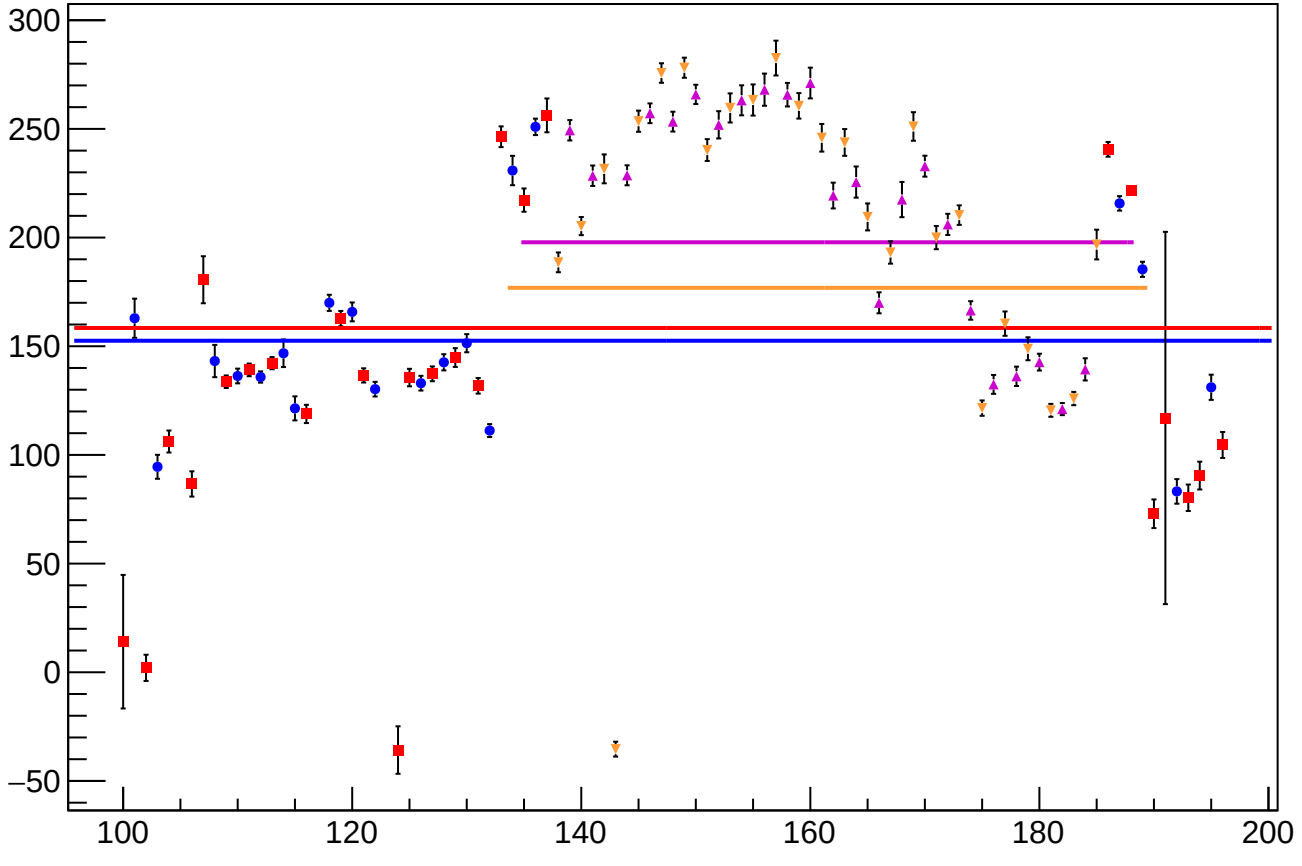
Right: -121.354+/-0.049 $\chi^2$/NDF: 613284.2/45

In: -138.199+/-0.038 $\chi^2$/NDF:361936.9/42

Out: -128.663+/-0.036 $\chi^2$/NDF:1176074.2/50

All: -133.177+/-0.026 $\chi^2$/NDF: 1571494.0/93

reg_asym_atr1l2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 152.536+/-0.903 $\chi^2$/NDF: 1945.8/19

Left Out: 176.884+/-0.958 $\chi^2$/NDF:7424.8/24

Right Out: 158.412+/-0.793 $\chi^2$/NDF: 4687.8/25

Left In: 197.829+/-1.006 $\chi^2$/NDF:2968.0/22

Left: 186.838+/-0.694 $\chi^2$/NDF: 10620.2/47

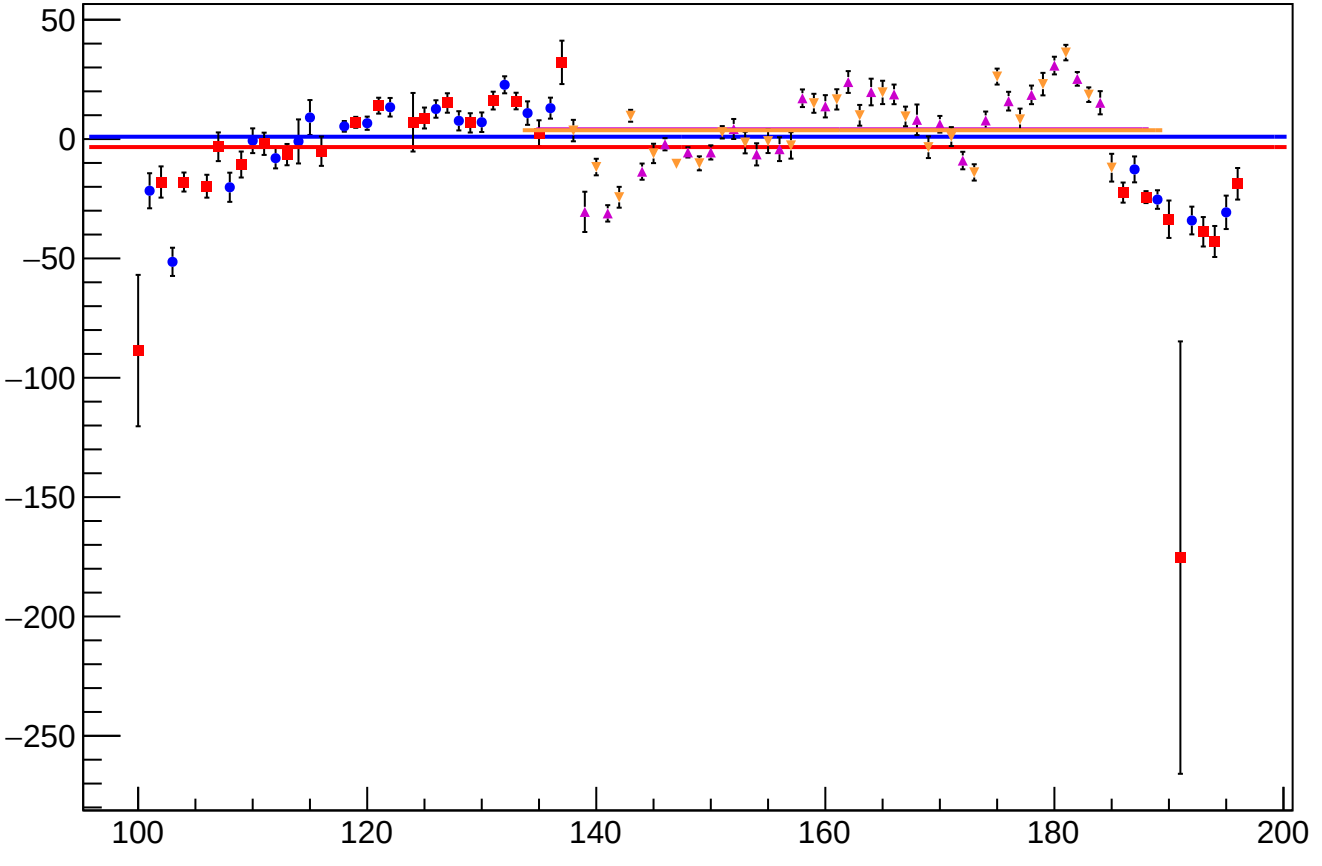
Right: 155.851+/-0.596 $\chi^2$/NDF: 6657.6/45

In: 172.736+/-0.672 $\chi^2$/NDF:6036.5/42

Out: 165.930+/-0.611 $\chi^2$/NDF:12333.3/50

All: 169.010+/-0.452 $\chi^2$/NDF: 18426.0/93

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.985+/-0.949 $\chi^2$/NDF: 296.7/19

Left Out: 3.708+/-0.723 $\chi^2$/NDF:400.9/24

Right Out: -3.348+/-0.883 $\chi^2$/NDF: 381.8/25

Left In: 4.102+/-0.769 $\chi^2$/NDF:398.9/22

Left: 3.893+/-0.527 $\chi^2$/NDF: 800.0/47

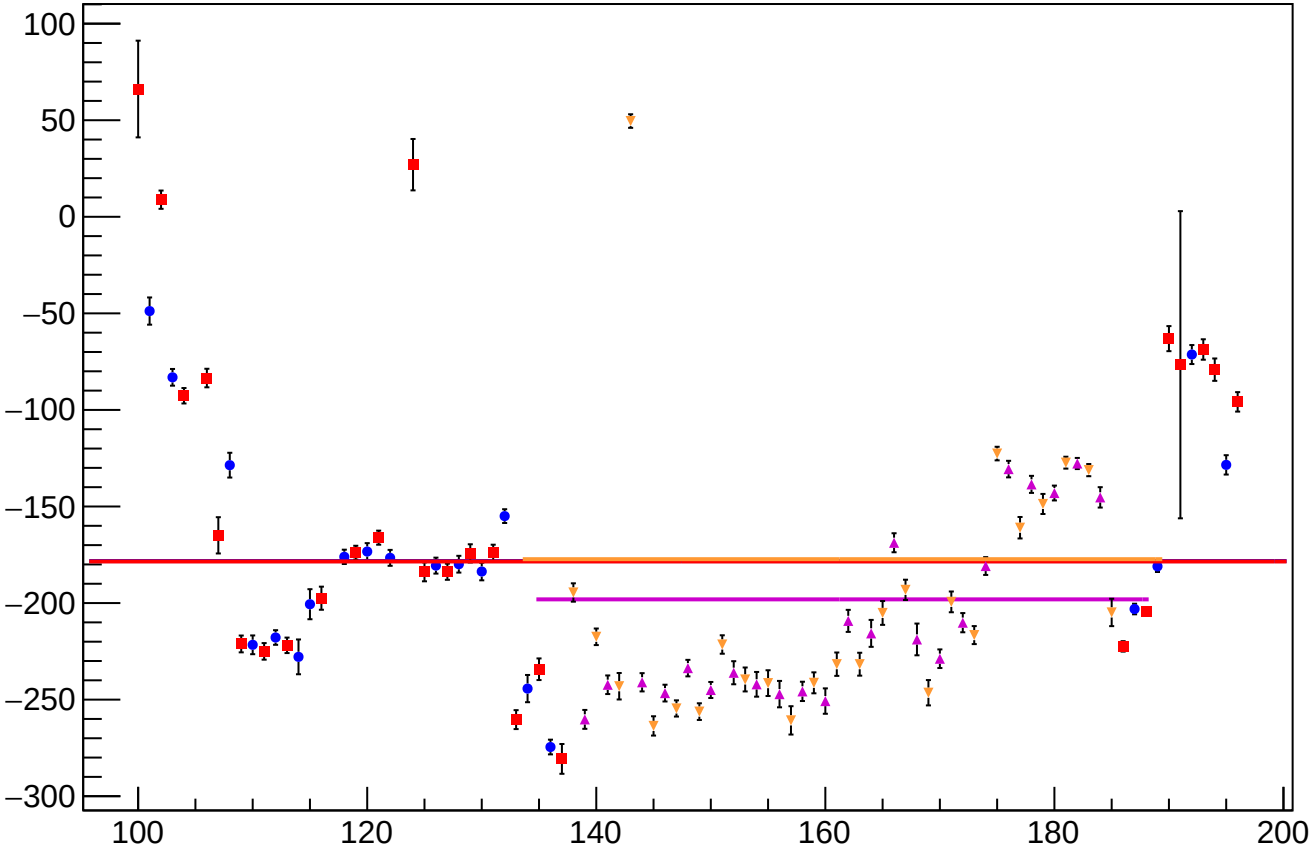
Right: -1.337+/-0.647 $\chi^2$/NDF: 689.6/45

In: 2.868+/-0.597 $\chi^2$/NDF:702.1/42

Out: 0.875+/-0.560 $\chi^2$/NDF:820.9/50

All: 1.806+/-0.408 $\chi^2$/NDF: 1529.0/93

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -178.256+/-0.961 $\chi^2$/NDF: 2535.5/19

Left Out: -177.283+/-0.956 $\chi^2$/NDF:7040.0/24

Right Out: -178.448+/-0.800 $\chi^2$/NDF: 5576.5/25

Left In: -198.088+/-1.000 $\chi^2$/NDF:2386.2/22

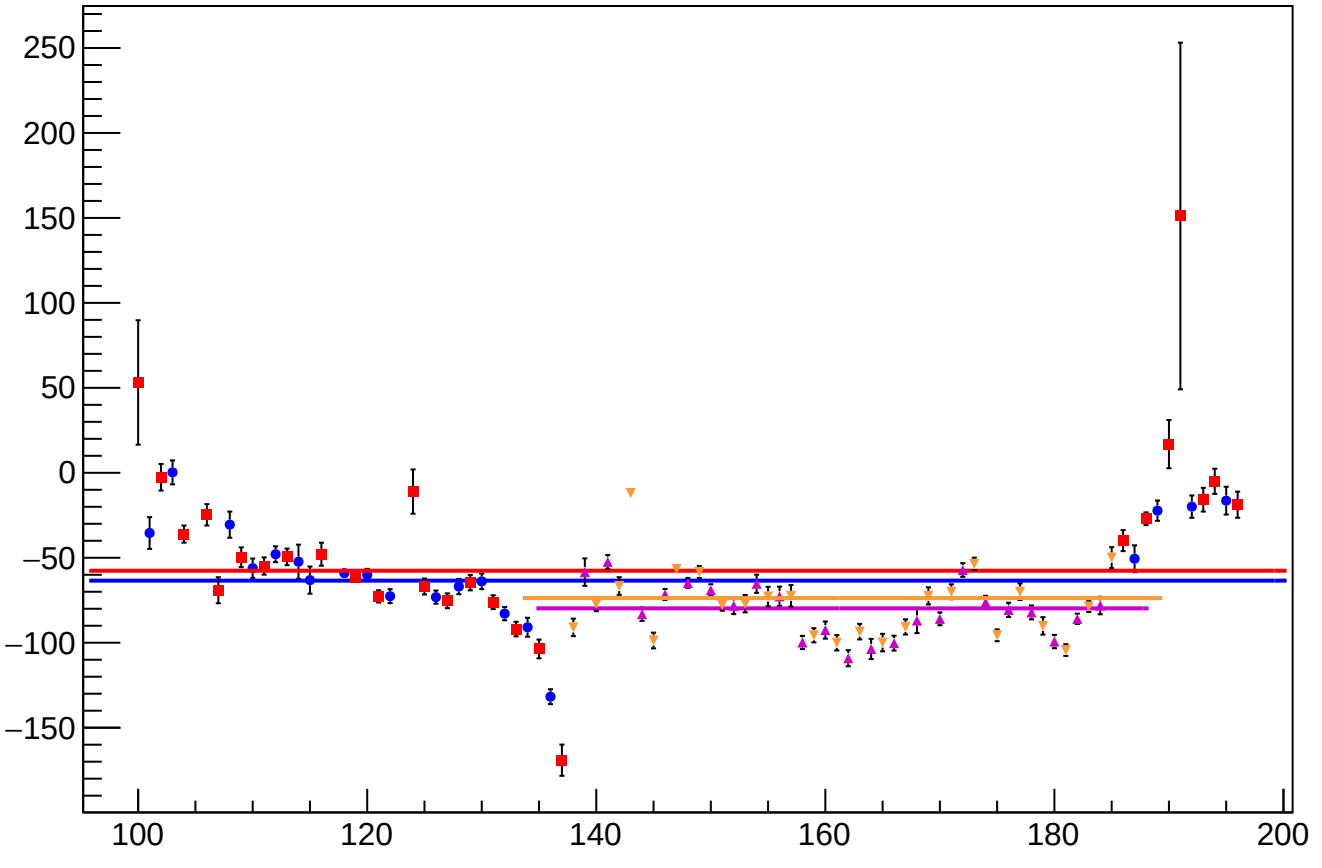
Left: -187.218+/-0.691 $\chi^2$/NDF: 9652.4/47

Right: -178.369+/-0.615 $\chi^2$/NDF: 8112.0/45

In: -187.774+/-0.693 $\chi^2$/NDF:5126.3/42

Out: -177.968+/-0.614 $\chi^2$/NDF:12617.4/50

All: -182.279+/-0.459 $\chi^2$/NDF: 17855.9/93




Right In: -63.453+/-1.119 $\chi^2$/NDF: 554.7/19

Left Out: -73.706+/-0.829 $\chi^2$/NDF:839.6/24

Right Out: -57.628+/-1.059 $\chi^2$/NDF: 688.2/25

Left In: -79.777+/-0.874 $\chi^2$/NDF:277.1/22

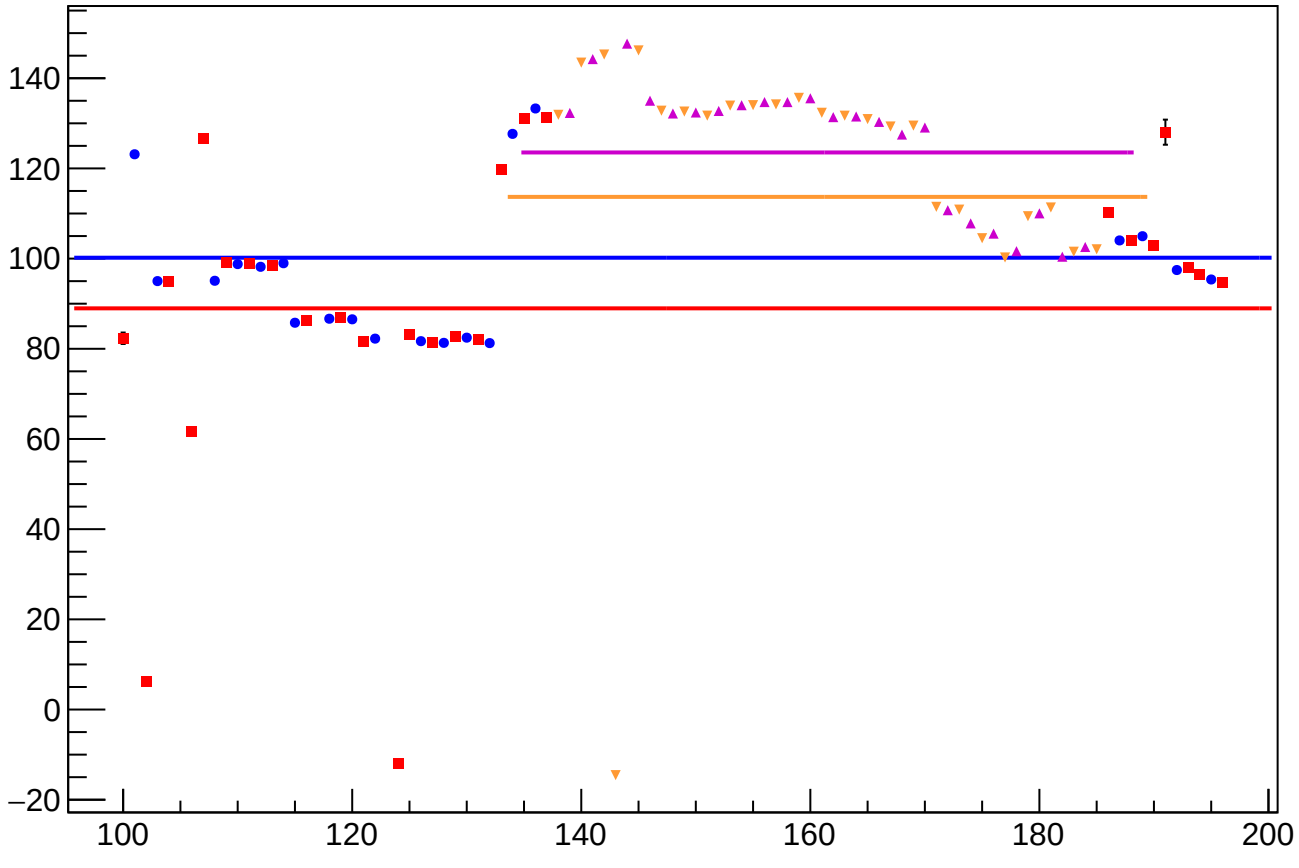
Left: -76.581+/-0.601 $\chi^2$/NDF: 1142.1/47

Right: -60.380+/-0.769 $\chi^2$/NDF: 1257.2/45

In: -73.589+/-0.689 $\chi^2$/NDF:964.0/42

Out: -67.595+/-0.653 $\chi^2$/NDF:1670.8/50

All: -70.431+/-0.474 $\chi^2$/NDF: 2674.7/93




Right In: 100.197+/-0.065 $\chi^2$/NDF: 68407.2/19

Left Out: 113.687+/-0.038 $\chi^2$/NDF:963156.9/24

Right Out: 88.967+/-0.057 $\chi^2$/NDF: 281347.5/25

Left In: 123.538+/-0.040 $\chi^2$/NDF:134613.3/22

Left: 118.454+/-0.028 $\chi^2$/NDF: 1129684.8/47

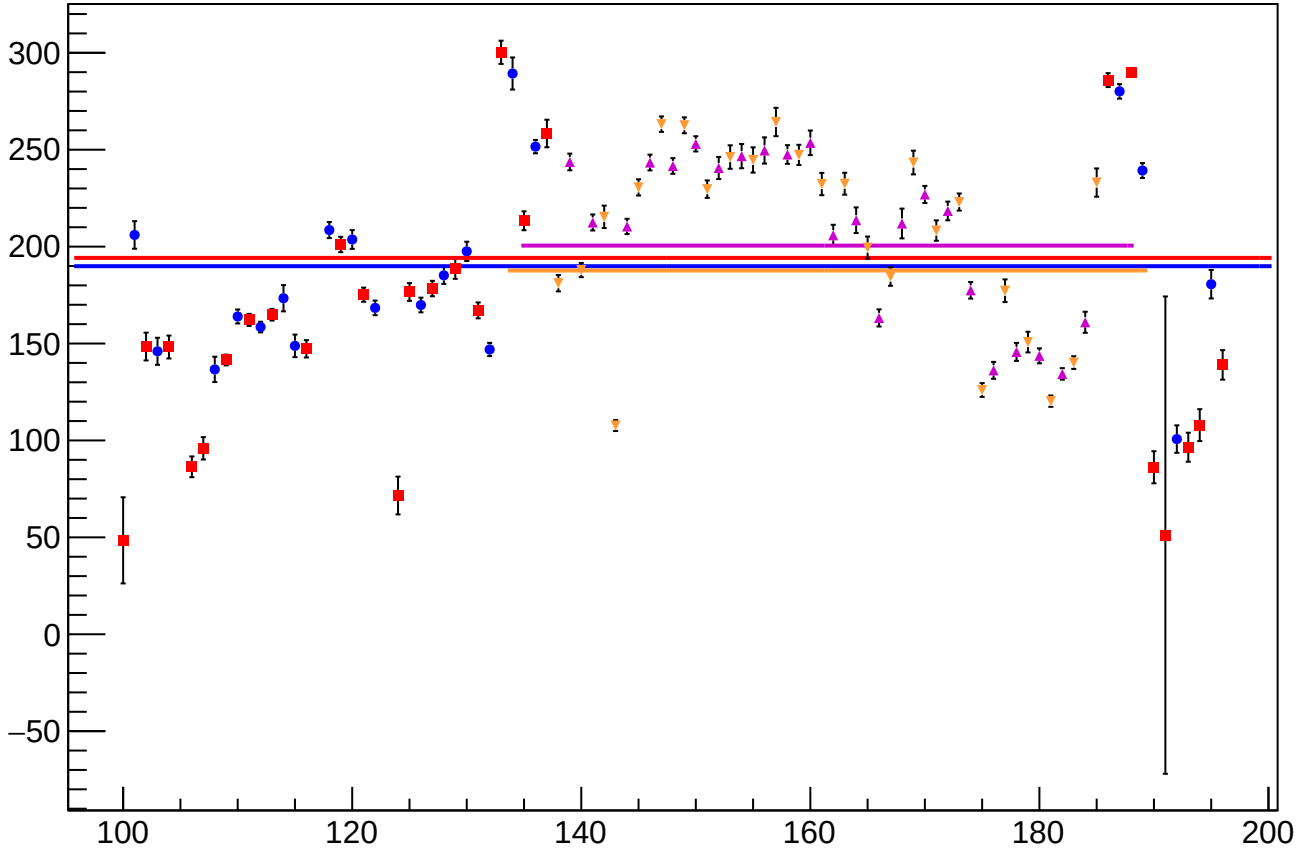
Right: 93.924+/-0.043 $\chi^2$/NDF: 366685.6/45

In: 117.144+/-0.034 $\chi^2$/NDF:298107.3/42

Out: 106.044+/-0.032 $\chi^2$/NDF:1372907.4/50

All: 111.277+/-0.023 $\chi^2$/NDF: 1728165.5/93

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 189.902+/-0.990 $\chi^2$/NDF: 1969.4/19

Left Out: 187.681+/-0.898 $\chi^2$/NDF:3528.3/24

Right Out: 194.186+/-0.858 $\chi^2$/NDF: 5677.9/25

Left In: 200.521+/-0.955 $\chi^2$/NDF:2111.4/22

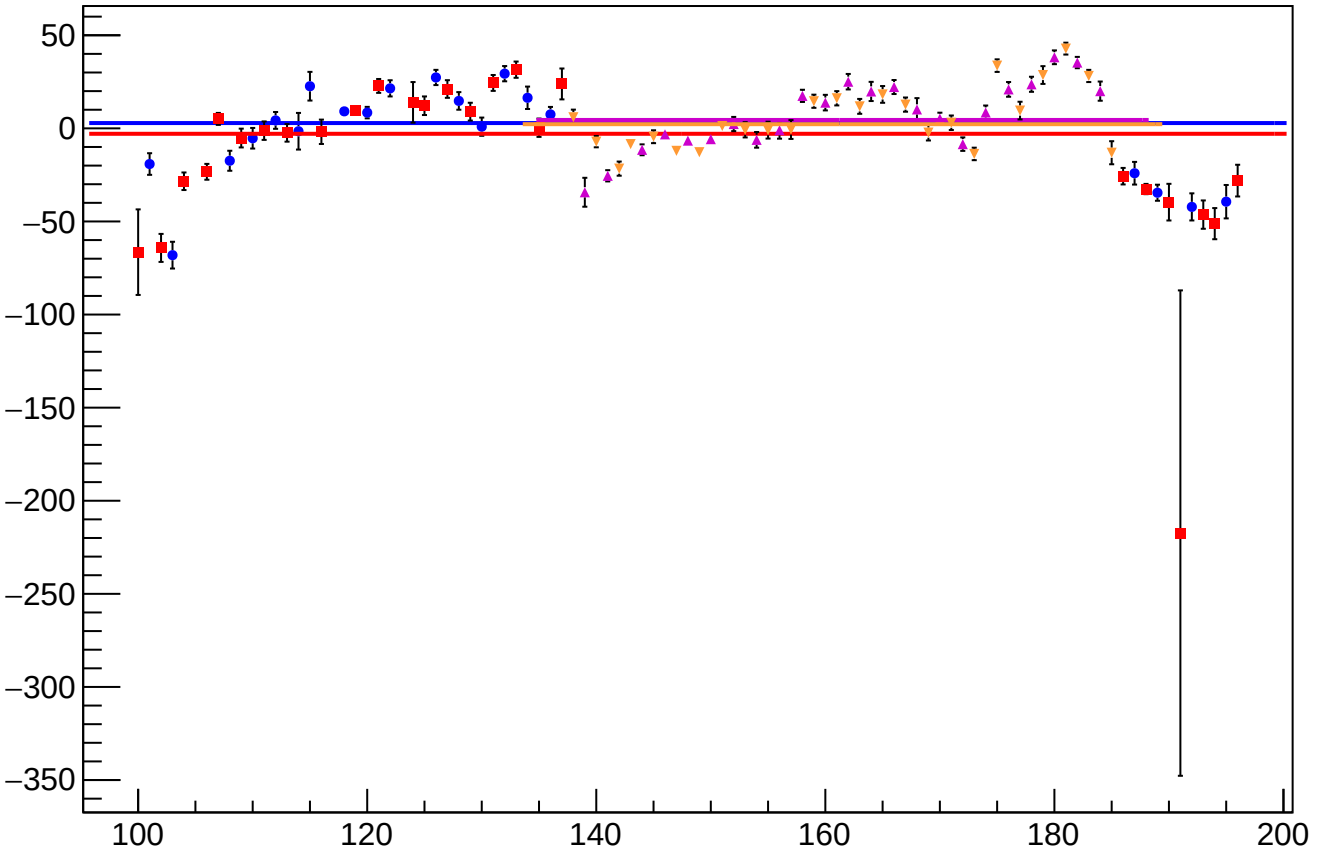
Left: 193.703+/-0.654 $\chi^2$/NDF: 5735.7/47

Right: 192.348+/-0.649 $\chi^2$/NDF: 7658.0/45

In: 195.405+/-0.687 $\chi^2$/NDF:4140.4/42

Out: 191.079+/-0.620 $\chi^2$/NDF:9233.6/50

All: 193.020+/-0.461 $\chi^2$/NDF: 13395.9/93




Right In: 2.848+/-1.043 $\chi^2$/NDF: 409.1/19

Left Out: 2.245+/-0.665 $\chi^2$/NDF:600.9/24

Right Out: -2.918+/-0.943 $\chi^2$/NDF: 595.2/25

Left In: 4.513+/-0.714 $\chi^2$/NDF:547.1/22

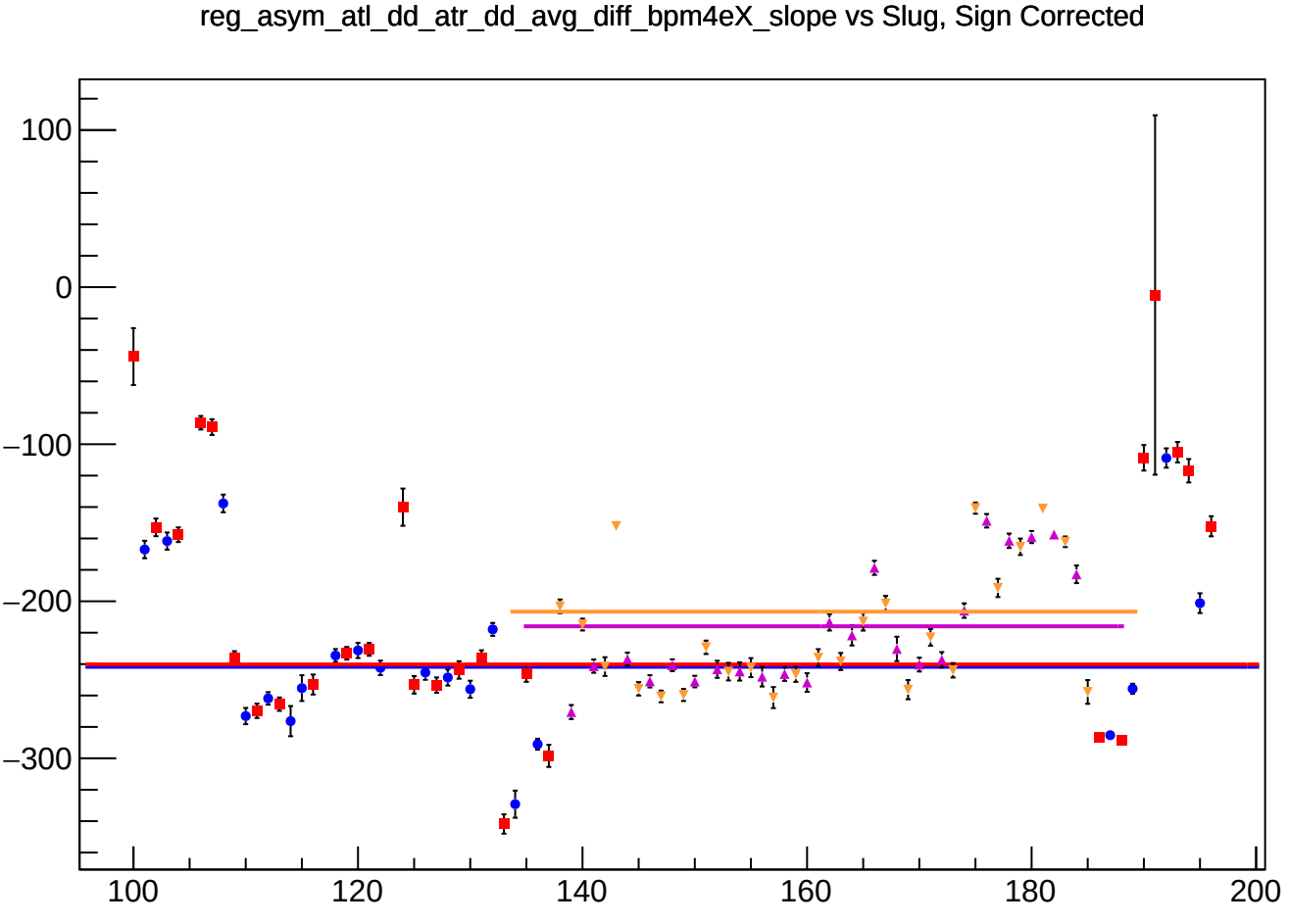
Left: 3.298+/-0.486 $\chi^2$/NDF: 1153.4/47

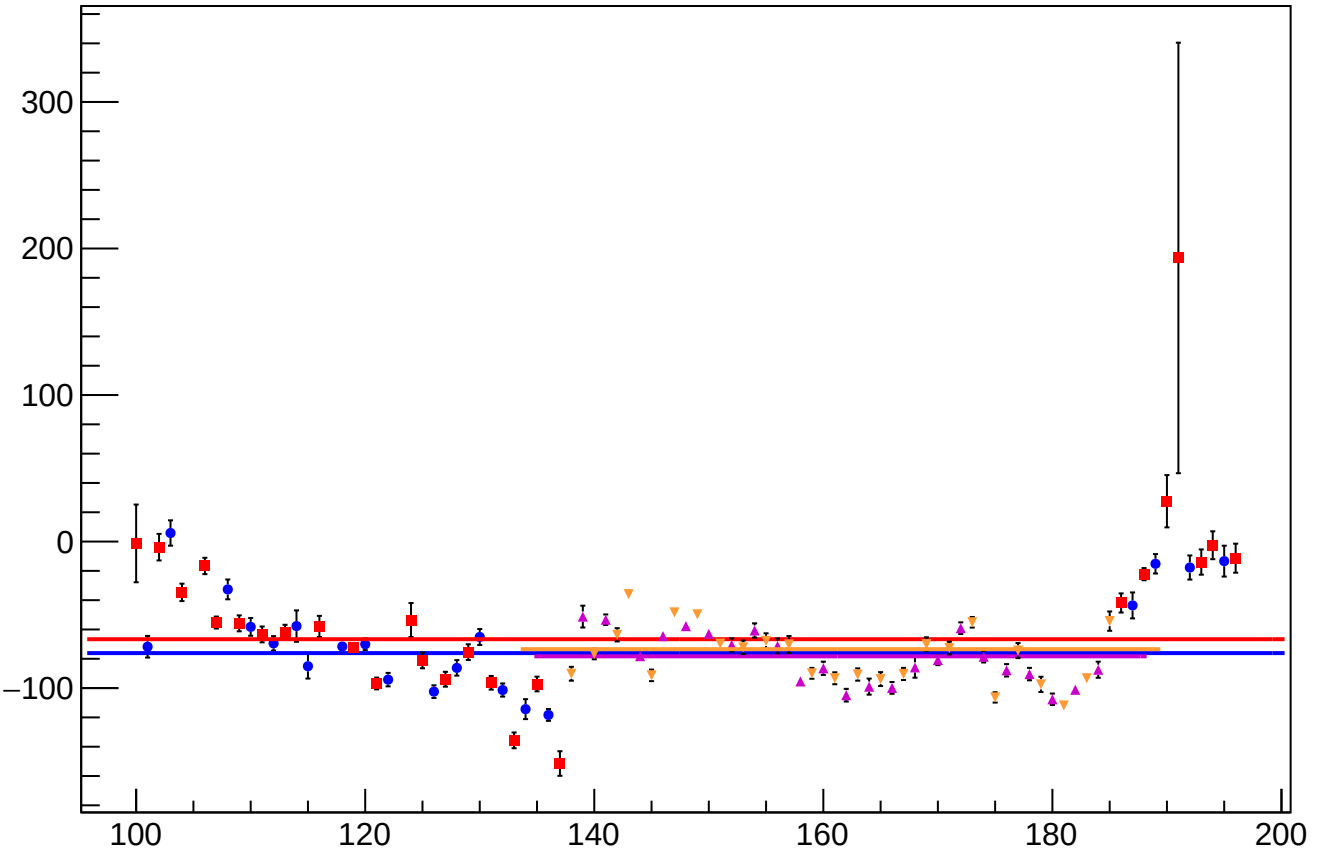
Right: -0.325+/-0.700 $\chi^2$/NDF: 1021.1/45

In: 3.981+/-0.589 $\chi^2$/NDF:957.9/42

Out: 0.532+/-0.543 $\chi^2$/NDF:1216.1/50

All: 2.117+/-0.399 $\chi^2$/NDF: 2192.6/93


reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
100
0
−100
−200
−300
100
120
140
160
180
200
Right In: -241.709+/-1.054 χ2/NDF: 1891.3/19
Left Out: -206.617+/-0.895 χ2/NDF:2467.8/24
Right Out: -240.256+/-0.870 χ2/NDF: 5725.8/25
Left In: -215.938+/-0.946 χ2/NDF:1711.9/22
Left: -211.017+/-0.650 χ2/NDF: 4230.9/47
Right: -240.845+/-0.671 χ2/NDF: 7618.3/45
In: -227.433+/-0.704 χ2/NDF:3934.2/42
Out: -223.915+/-0.624 χ2/NDF:8920.5/50
All: -225.461+/-0.467 χ2/NDF: 12868.6/93




Right In: -76.121+/-1.228 $\chi^2$/NDF: 567.4/19

Left Out: -73.426+/-0.767 $\chi^2$/NDF:836.6/24

Right Out: -66.629+/-1.132 $\chi^2$/NDF: 894.7/25

Left In: -78.329+/-0.817 $\chi^2$/NDF:443.2/22

Left: -75.722+/-0.559 $\chi^2$/NDF: 1298.9/47

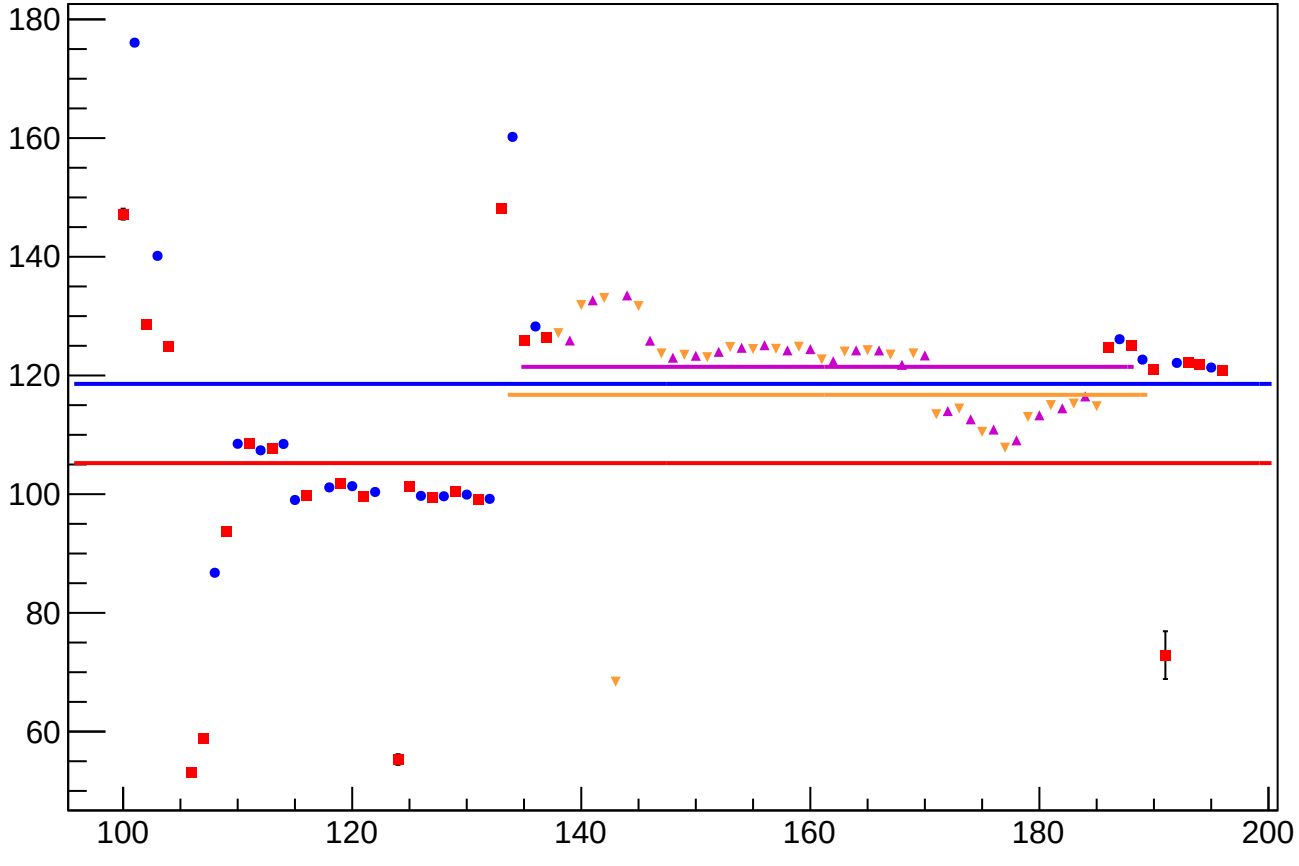
Right: -70.990+/-0.832 $\chi^2$/NDF: 1494.4/45

In: -77.651+/-0.680 $\chi^2$/NDF:1012.9/42

Out: -71.288+/-0.635 $\chi^2$/NDF:1756.0/50

All: -74.250+/-0.464 $\chi^2$/NDF: 2815.6/93

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 118.583+/-0.070 $\chi^2$/NDF: 96189.3/19

Left Out: 116.740+/-0.036 $\chi^2$/NDF:203650.9/24

Right Out: 105.238+/-0.061 $\chi^2$/NDF: 193051.6/25

Left In: 121.455+/-0.037 $\chi^2$/NDF:28796.4/22

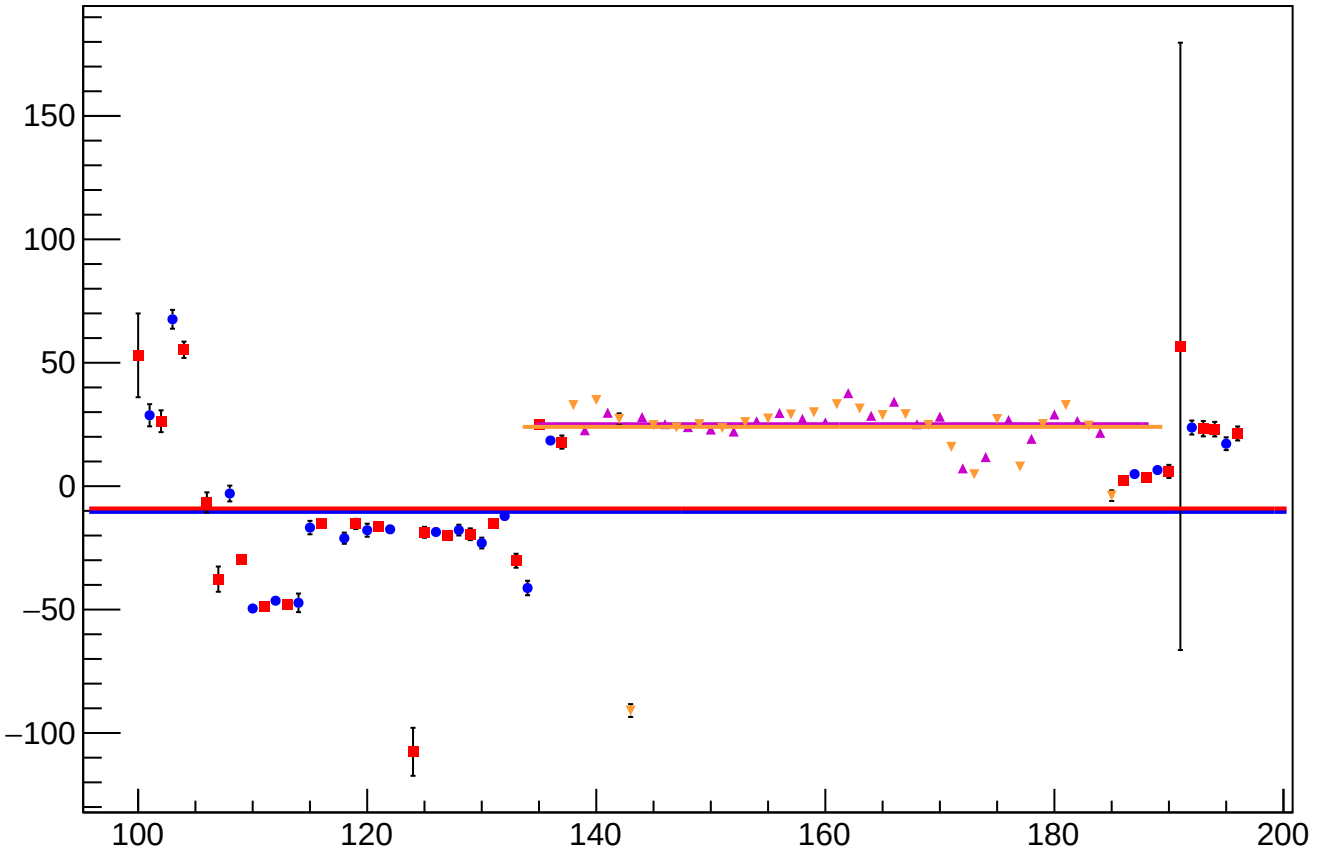
Left: 119.004+/-0.026 $\chi^2$/NDF: 240766.9/47

Right: 110.977+/-0.046 $\chi^2$/NDF: 309700.5/45

In: 120.827+/-0.033 $\chi^2$/NDF:126284.8/42

Out: 113.805+/-0.031 $\chi^2$/NDF:423023.7/50

All: 117.093+/-0.023 $\chi^2$/NDF: 573472.5/93




Right In: -10.411+/-0.484 $\chi^2$/NDF: 2613.9/19

Left Out: 24.025+/-0.282 $\chi^2$/NDF:2802.2/24

Right Out: -9.038+/-0.423 $\chi^2$/NDF: 2999.5/25

Left In: 25.089+/-0.287 $\chi^2$/NDF:495.3/22

Left: 24.547+/-0.201 $\chi^2$/NDF: 3304.5/47

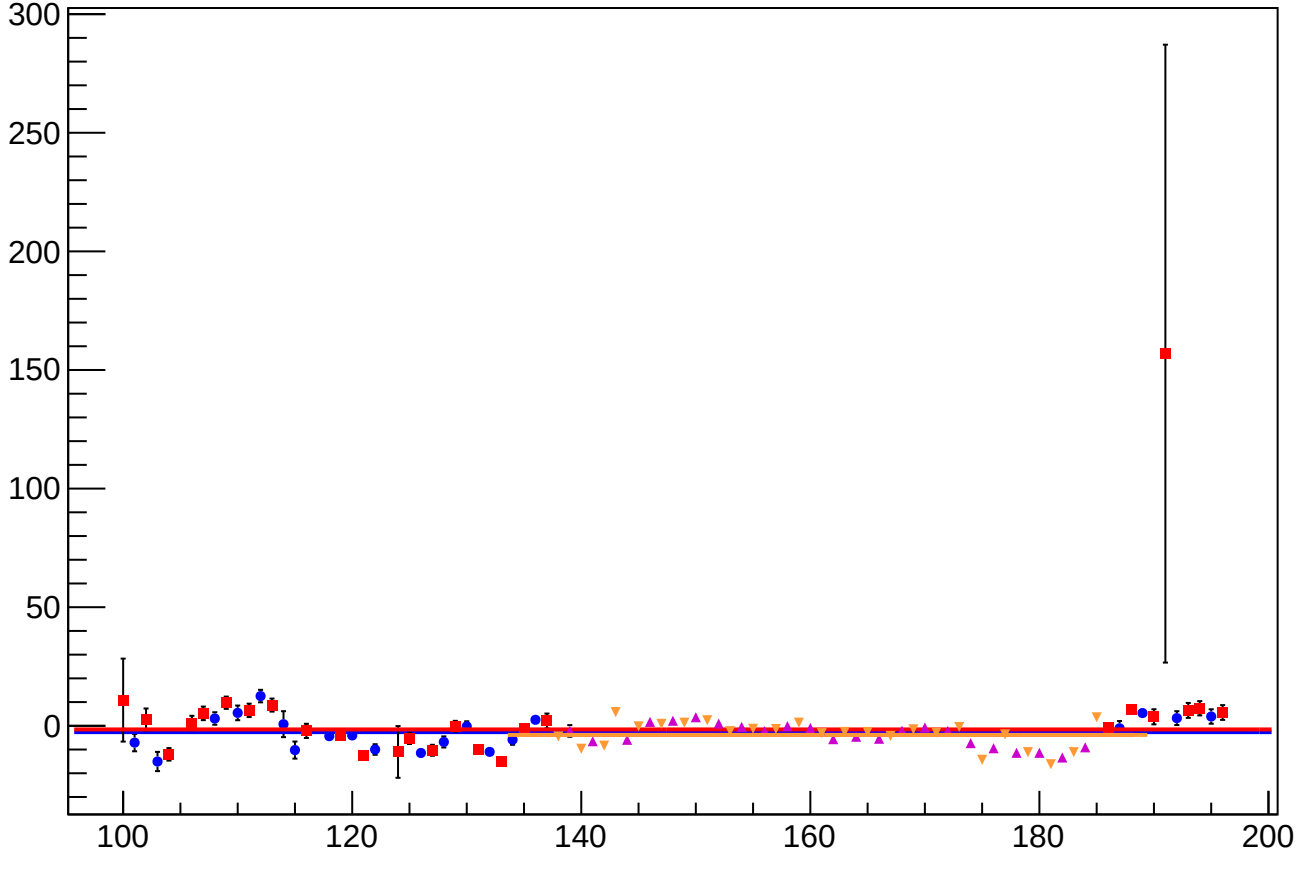
Right: -9.633+/-0.319 $\chi^2$/NDF: 5618.0/45

In: 15.841+/-0.247 $\chi^2$/NDF:7089.1/42

Out: 13.864+/-0.235 $\chi^2$/NDF:10025.7/50

All: 14.802+/-0.170 $\chi^2$/NDF: 17148.4/93

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.655+/-0.511 $\chi^2$/NDF: 150.8/19

Left Out: -3.845+/-0.218 $\chi^2$/NDF:649.4/24

Right Out: -1.526+/-0.475 $\chi^2$/NDF: 234.6/25

Left In: -3.780+/-0.224 $\chi^2$/NDF:509.8/22

Left: -3.813+/-0.156 $\chi^2$/NDF: 1159.2/47

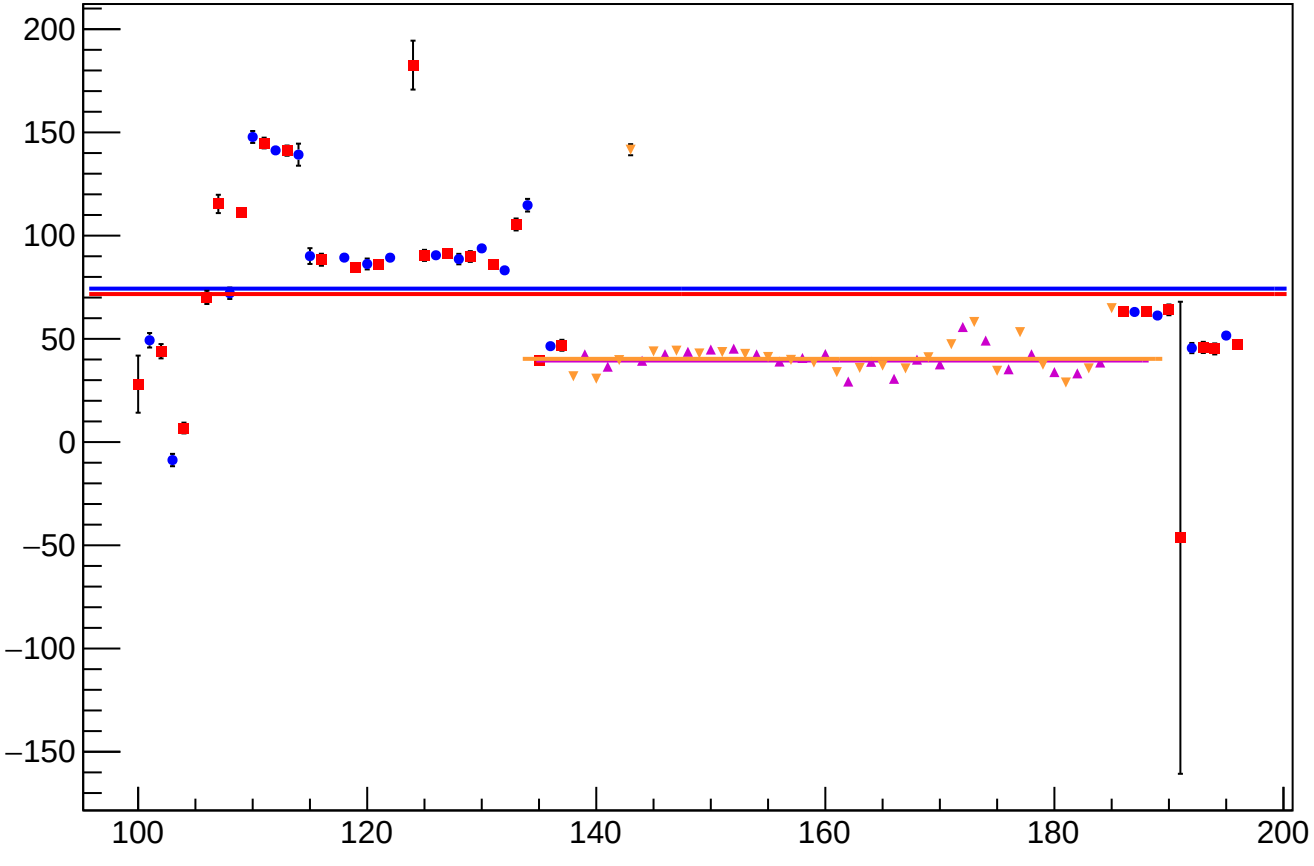
Right: -2.050+/-0.348 $\chi^2$/NDF: 388.0/45

In: -3.599+/-0.205 $\chi^2$/NDF:664.7/42

Out: -3.443+/-0.198 $\chi^2$/NDF:903.6/50

All: -3.518+/-0.142 $\chi^2$/NDF: 1568.7/93

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 74.326+/-0.509 $\chi^2$/NDF: 3710.7/19

Left Out: 40.315+/-0.280 $\chi^2$/NDF:2182.8/24

Right Out: 71.694+/-0.423 $\chi^2$/NDF: 4080.5/25

Left In: 39.504+/-0.285 $\chi^2$/NDF:432.1/22

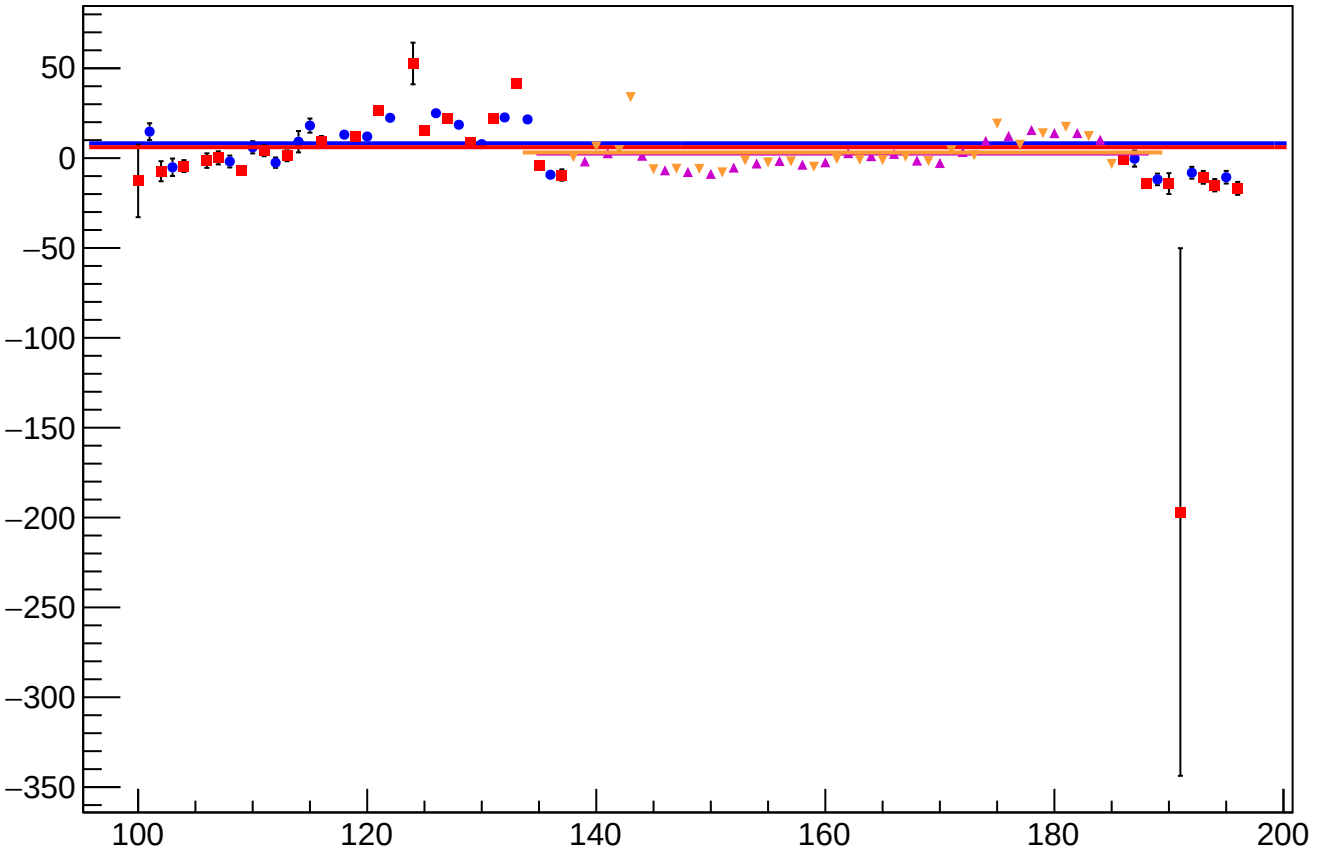
Left: 39.916+/-0.200 $\chi^2$/NDF: 2619.0/47

Right: 72.768+/-0.325 $\chi^2$/NDF: 7807.0/45

In: 47.803+/-0.248 $\chi^2$/NDF:7707.5/42

Out: 49.886+/-0.234 $\chi^2$/NDF:10089.6/50

All: 48.909+/-0.170 $\chi^2$/NDF: 17834.4/93




Right In: 8.249+/-0.591 $\chi^2$/NDF: 467.2/19

Left Out: 3.142+/-0.245 $\chi^2$/NDF:1267.0/24

Right Out: 6.069+/-0.567 $\chi^2$/NDF: 724.4/25

Left In: 2.519+/-0.251 $\chi^2$/NDF:968.2/22

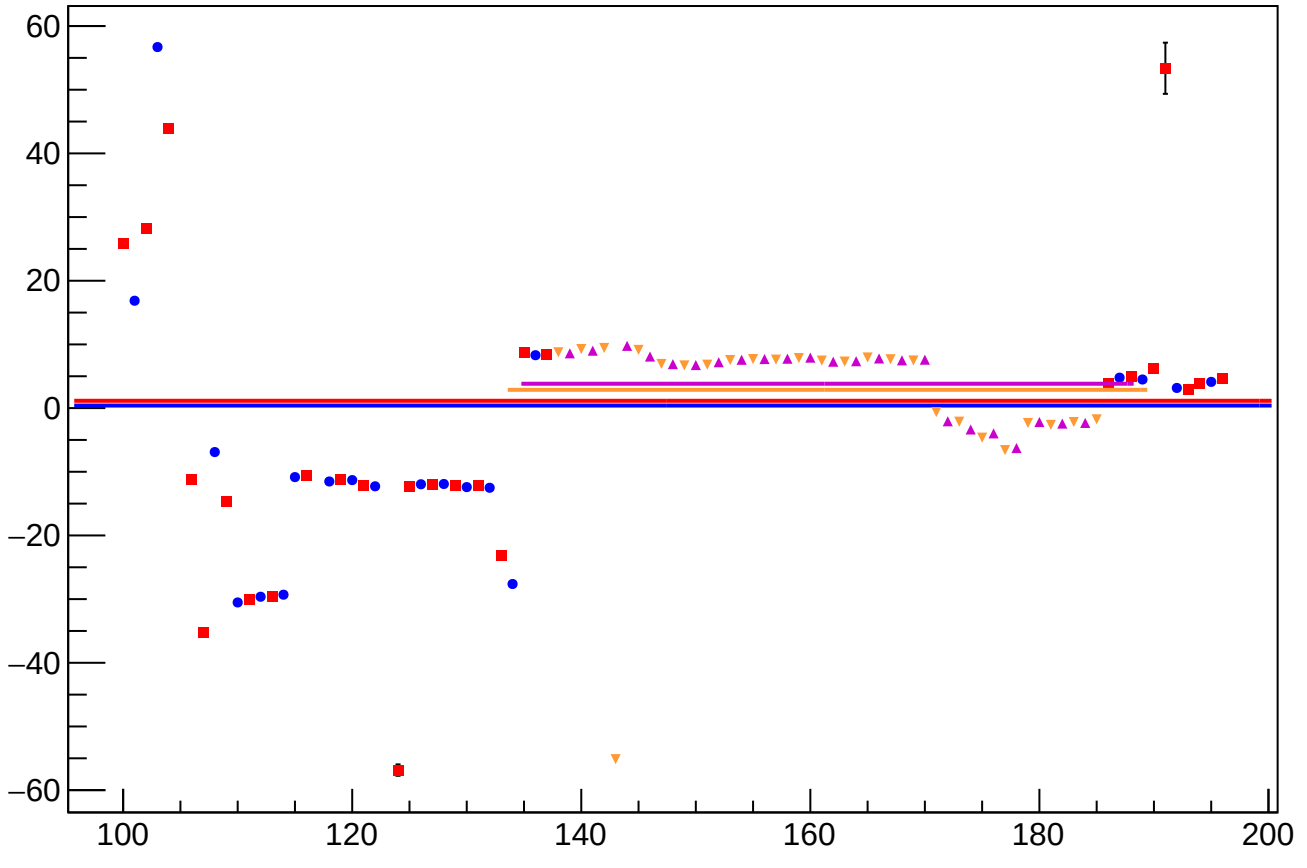
Left: 2.837+/-0.175 $\chi^2$/NDF: 2238.3/47

Right: 7.115+/-0.409 $\chi^2$/NDF: 1198.7/45

In: 3.396+/-0.231 $\chi^2$/NDF:1515.1/42

Out: 3.603+/-0.225 $\chi^2$/NDF:2013.8/50

All: 3.502+/-0.161 $\chi^2$/NDF: 3529.3/93




Right In: 0.401+/-0.031 $\chi^2$/NDF: 372213.9/19

Left Out: 2.870+/-0.011 $\chi^2$/NDF:512331.0/24

Right Out: 1.150+/-0.030 $\chi^2$/NDF: 323083.8/25

Left In: 3.825+/-0.011 $\chi^2$/NDF:233224.7/22

Left: 3.343+/-0.008 $\chi^2$/NDF: 749294.8/47

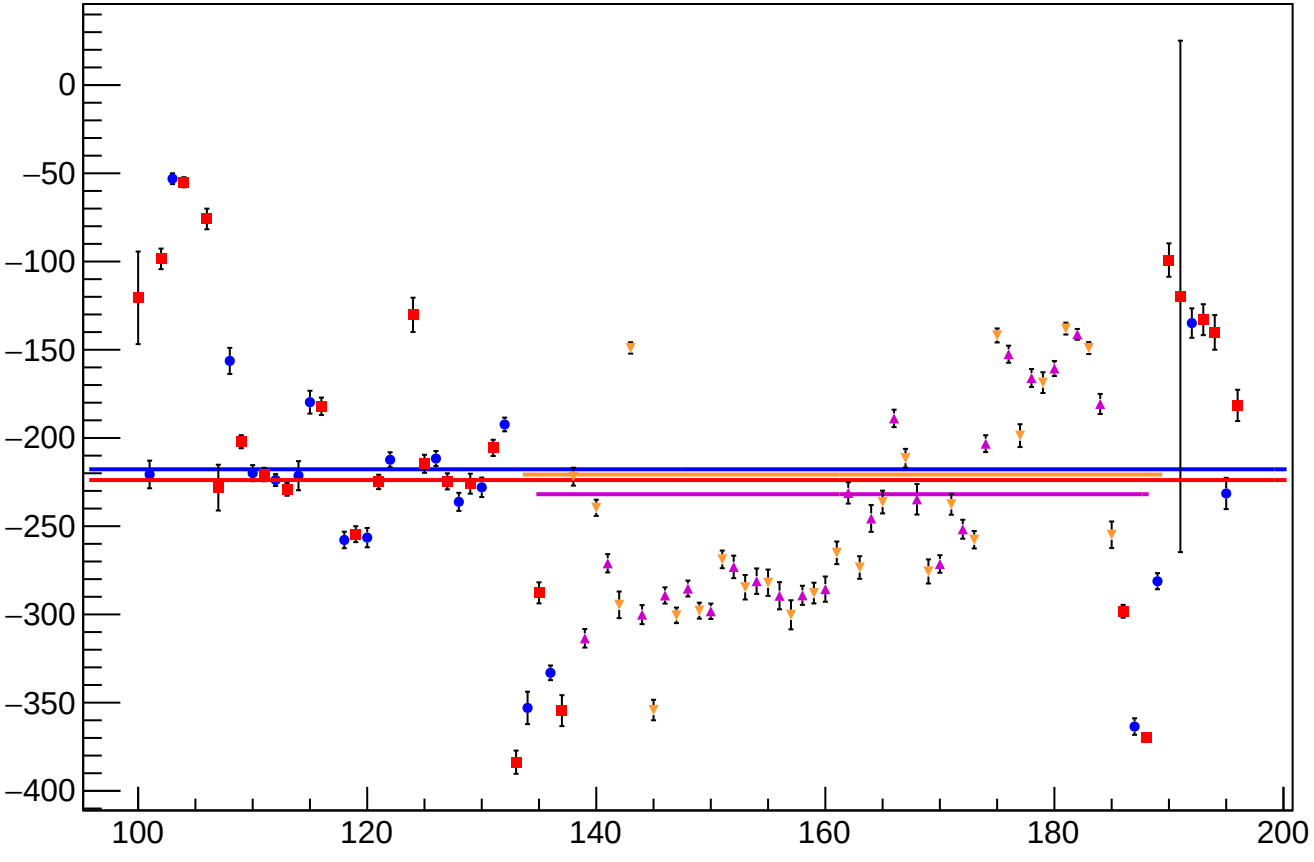
Right: 0.792+/-0.022 $\chi^2$/NDF: 695599.9/45

In: 3.439+/-0.010 $\chi^2$/NDF:616166.7/42

Out: 2.664+/-0.010 $\chi^2$/NDF:838358.6/50

All: 3.046+/-0.007 $\chi^2$/NDF: 1457314.8/93

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -217.745+/-1.096 $\chi^2$/NDF: 5424.0/19

Left Out: -220.723+/-1.018 $\chi^2$/NDF:4052.2/24

Right Out: -223.855+/-0.964 $\chi^2$/NDF: 9959.8/25

Left In: -231.871+/-1.077 $\chi^2$/NDF:3160.3/22

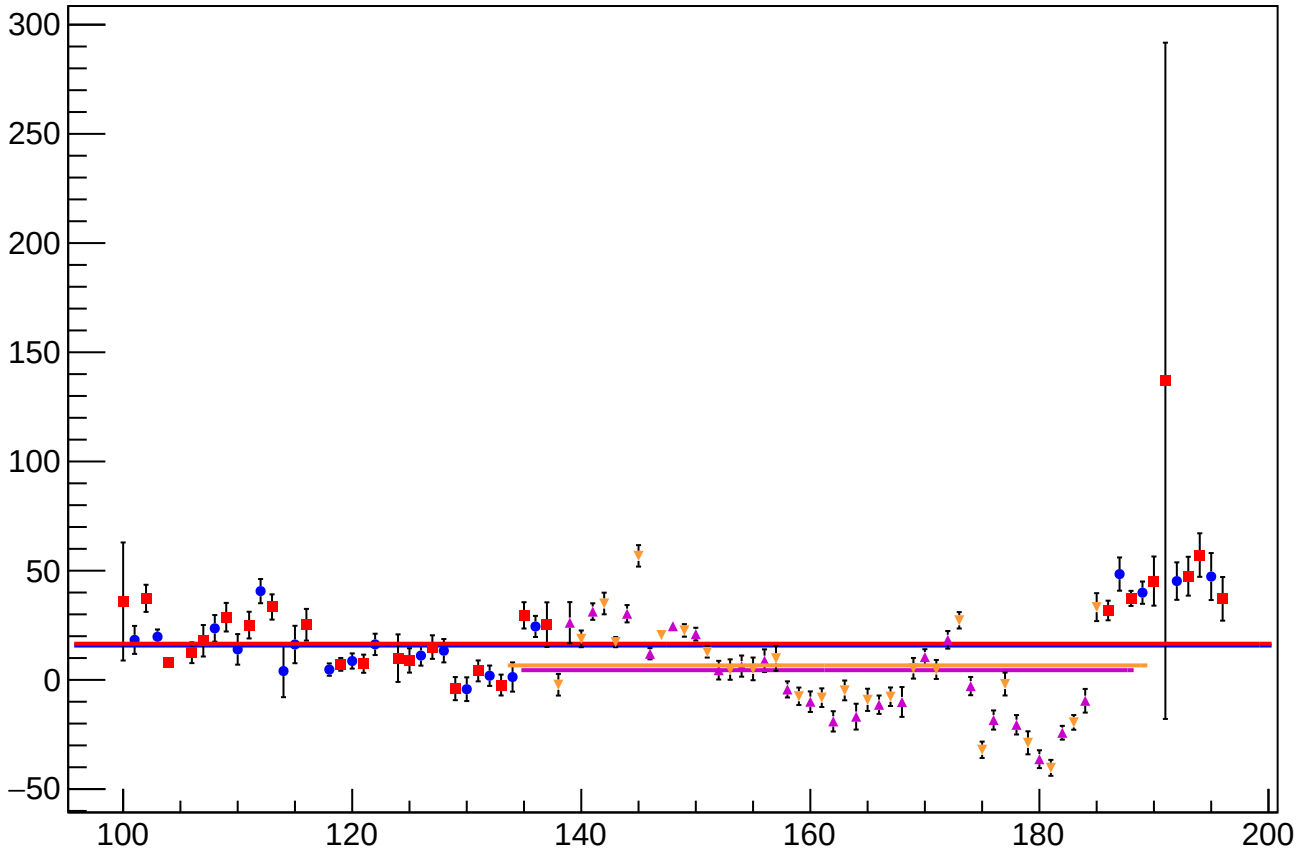
Left: -225.984+/-0.740 $\chi^2$/NDF: 7269.1/47

Right: -221.190+/-0.724 $\chi^2$/NDF: 15401.4/45

In: -224.930+/-0.768 $\chi^2$/NDF:8668.9/42

Out: -222.375+/-0.700 $\chi^2$/NDF:14017.0/50

All: -223.534+/-0.517 $\chi^2$/NDF: 22692.0/93




Right In: 15.730+/-1.140 $\chi^2$/NDF: 136.7/19

Left Out: 6.643+/-0.752 $\chi^2$/NDF:735.0/24

Right Out: 16.569+/-1.016 $\chi^2$/NDF: 189.9/25

Left In: 4.447+/-0.807 $\chi^2$/NDF:567.1/22

Left: 5.622+/-0.550 $\chi^2$/NDF: 1306.0/47

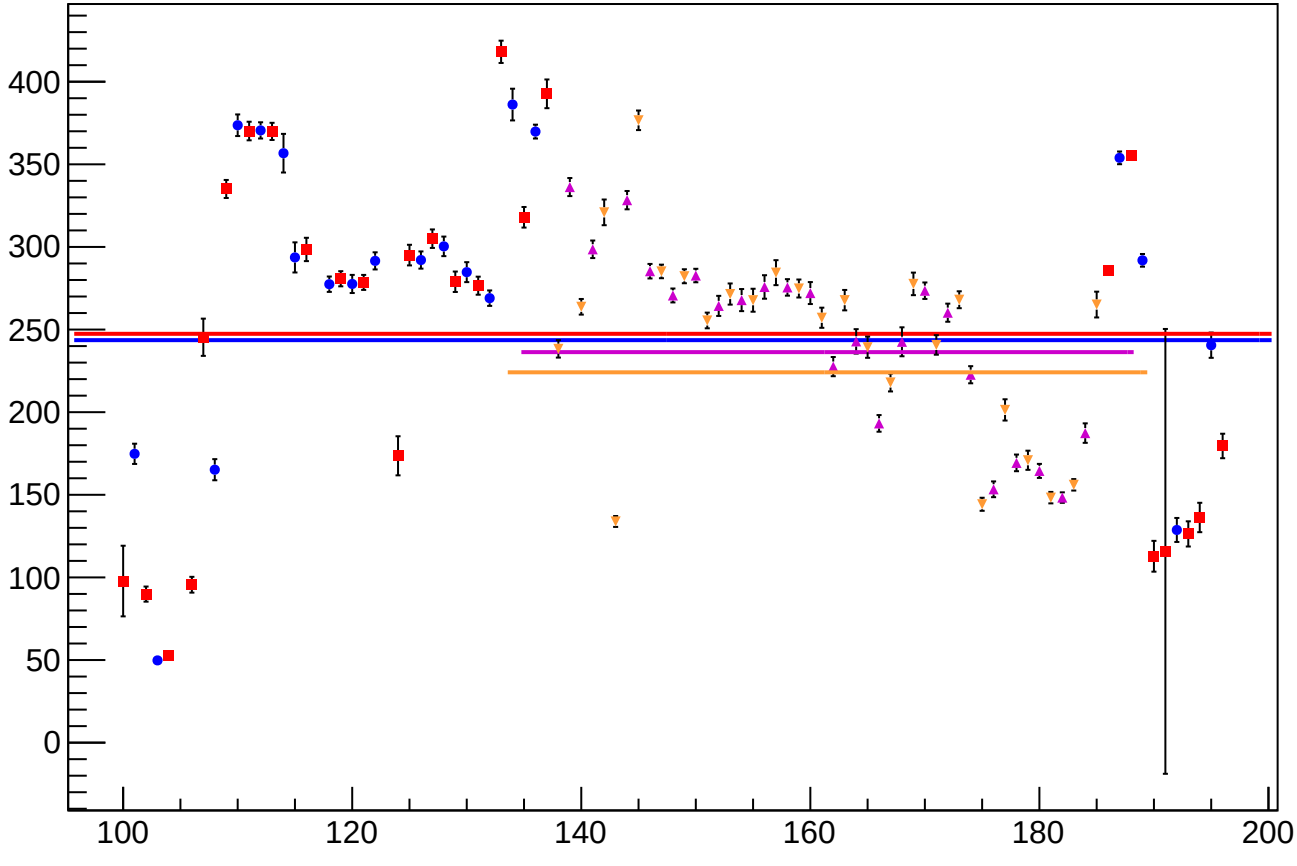
Right: 16.197+/-0.759 $\chi^2$/NDF: 326.9/45

In: 8.213+/-0.659 $\chi^2$/NDF:769.0/42

Out: 10.159+/-0.605 $\chi^2$/NDF:986.5/50

All: 9.269+/-0.445 $\chi^2$/NDF: 1760.3/93

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 243.590+/-1.117 $\chi^2$/NDF: 10721.5/19

Left Out: 224.123+/-1.014 $\chi^2$/NDF:3966.6/24

Right Out: 247.427+/-0.942 $\chi^2$/NDF: 16140.3/25

Left In: 236.342+/-1.066 $\chi^2$/NDF:2992.9/22

Left: 229.922+/-0.735 $\chi^2$/NDF: 7028.5/47

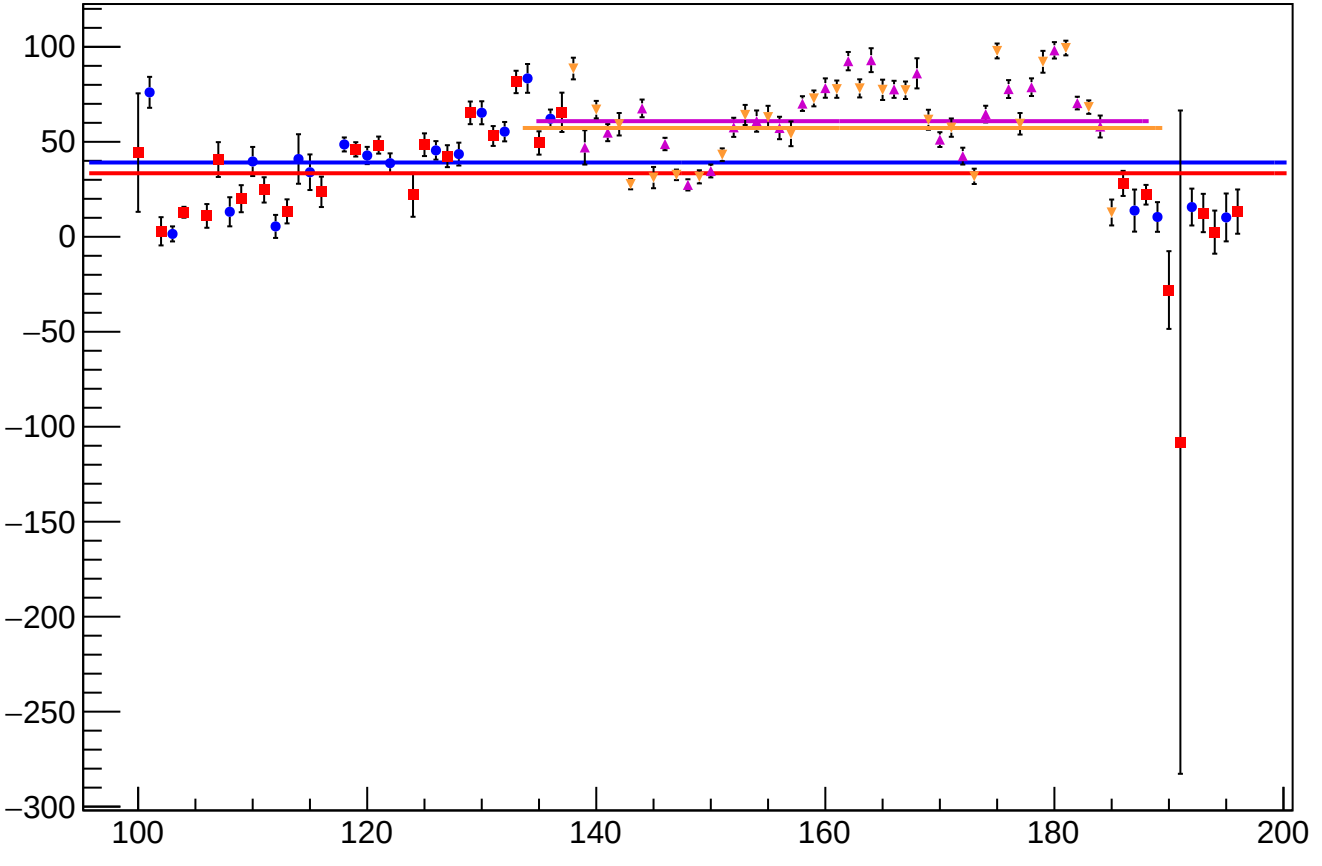
Right: 245.832+/-0.720 $\chi^2$/NDF: 26868.7/45

In: 239.799+/-0.771 $\chi^2$/NDF:13736.5/42

Out: 236.627+/-0.690 $\chi^2$/NDF:20390.6/50

All: 238.037+/-0.514 $\chi^2$/NDF: 34136.5/93

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 39.118+/-1.344 $\chi^2$/NDF: 278.0/19

Left Out: 57.288+/-0.868 $\chi^2$/NDF:767.9/24

Right Out: 33.452+/-1.227 $\chi^2$/NDF: 286.0/25

Left In: 60.877+/-0.923 $\chi^2$/NDF:454.7/22

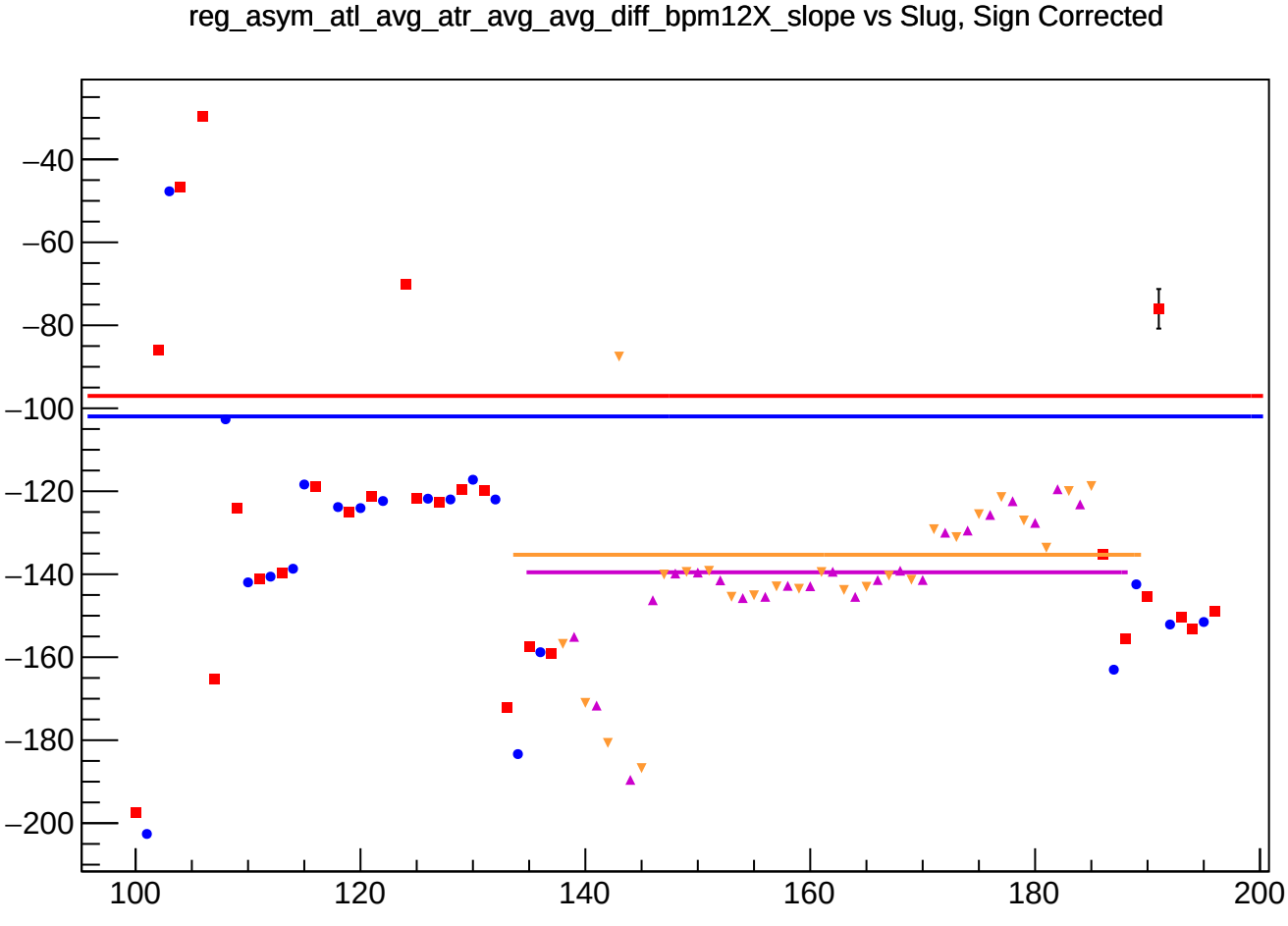
Left: 58.973+/-0.632 $\chi^2$/NDF: 1230.6/47

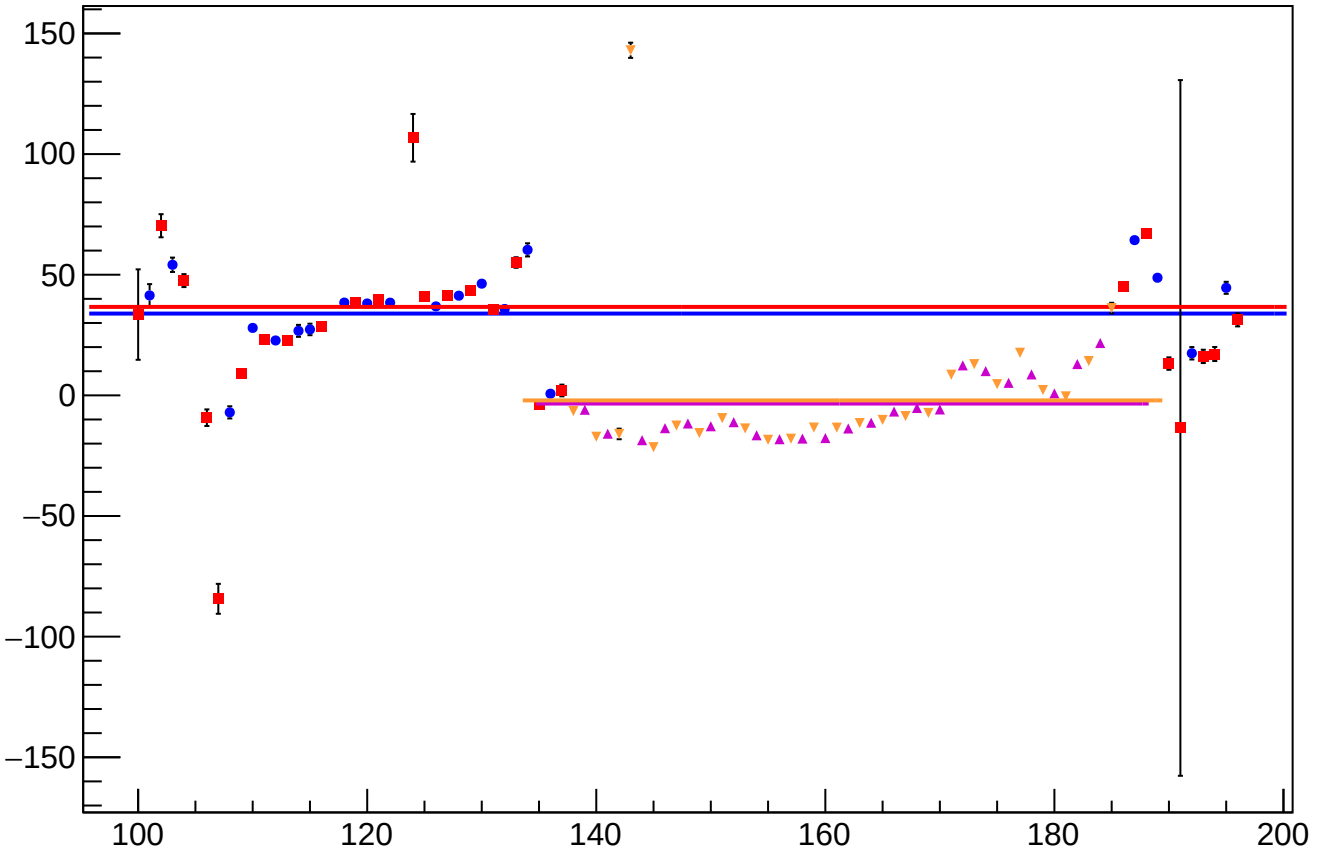
Right: 36.028+/-0.906 $\chi^2$/NDF: 573.6/45

In: 53.909+/-0.761 $\chi^2$/NDF:910.8/42

Out: 49.339+/-0.709 $\chi^2$/NDF:1305.3/50

All: 51.462+/-0.518 $\chi^2$/NDF: 2235.5/93


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected
−40
−60
−80
−100
−120
−140
−160
−180
−200
100
120
140
160
180
200
Right In: -101.959+/-0.065 χ²/NDF: 594625.8/19
Left Out: -135.305+/-0.041 χ²/NDF:262874.5/24
Right Out: -97.023+/-0.061 χ²/NDF: 647740.3/25
Left In: -139.533+/-0.042 χ²/NDF:114482.7/22
Left: -137.341+/-0.029 χ²/NDF: 382584.2/47
Right: -99.320+/-0.044 χ²/NDF: 1245429.4/45
In: -128.475+/-0.035 χ²/NDF:943420.5/42
Out: -123.515+/-0.034 χ²/NDF:1184746.9/50
All: -125.879+/-0.024 χ²/NDF: 2138456.1/93




Right In: 33.899+/-0.377 $\chi^2$/NDF: 2210.7/19

Left Out: -2.091+/-0.267 $\chi^2$/NDF:4201.3/24

Right Out: 36.658+/-0.322 $\chi^2$/NDF: 4488.3/25

Left In: -3.391+/-0.271 $\chi^2$/NDF:1752.8/22

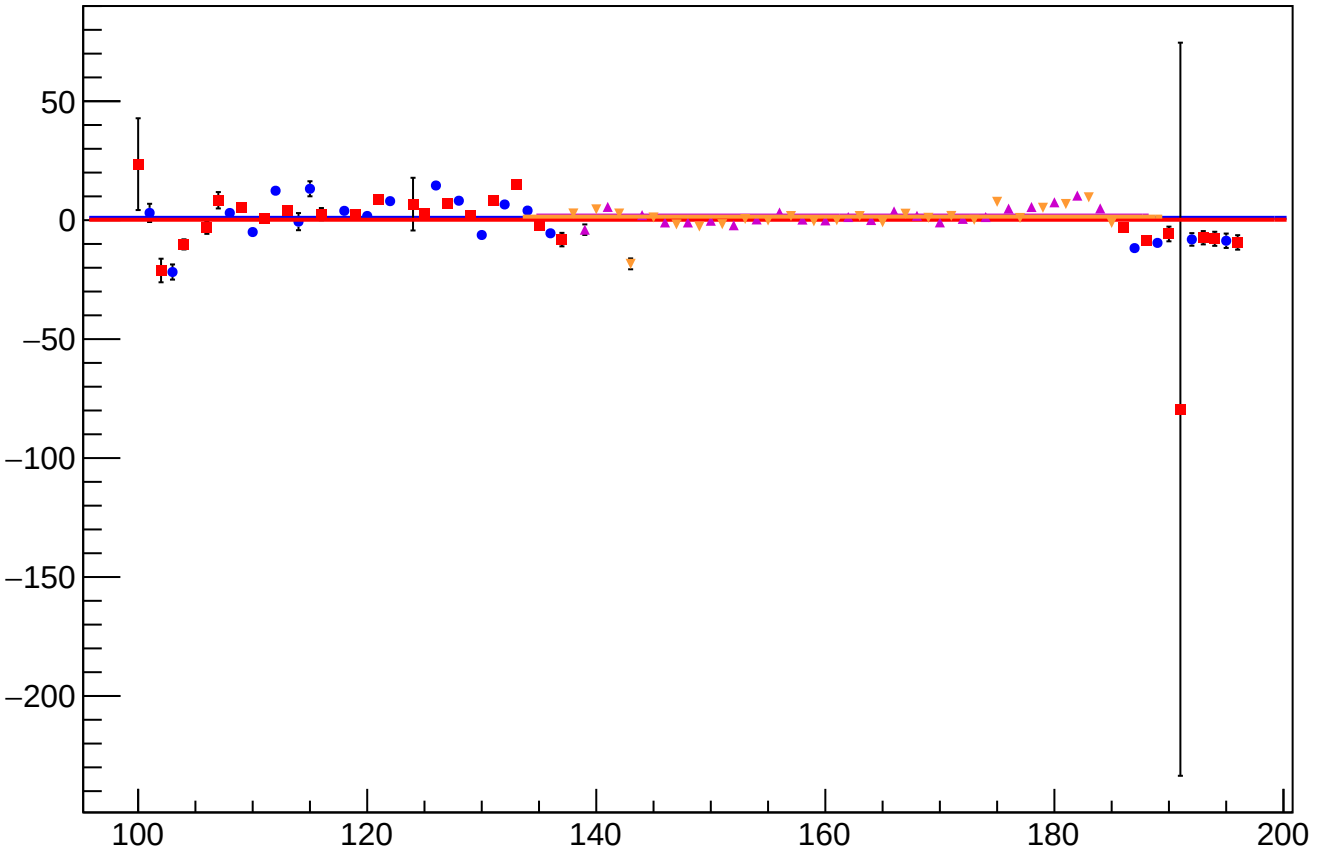
Left: -2.730+/-0.190 $\chi^2$/NDF: 5965.8/47

Right: 35.496+/-0.245 $\chi^2$/NDF: 6730.0/45

In: 9.315+/-0.220 $\chi^2$/NDF:10401.4/42

Out: 13.694+/-0.205 $\chi^2$/NDF:17284.4/50

All: 11.658+/-0.150 $\chi^2$/NDF: 27897.1/93




Right In: 0.981+/-0.407 $\chi^2$/NDF: 376.5/19

Left Out: 1.489+/-0.205 $\chi^2$/NDF:328.6/24

Right Out: 0.178+/-0.372 $\chi^2$/NDF: 344.8/25

Left In: 1.933+/-0.210 $\chi^2$/NDF:240.7/22

Left: 1.705+/-0.147 $\chi^2$/NDF: 571.5/47

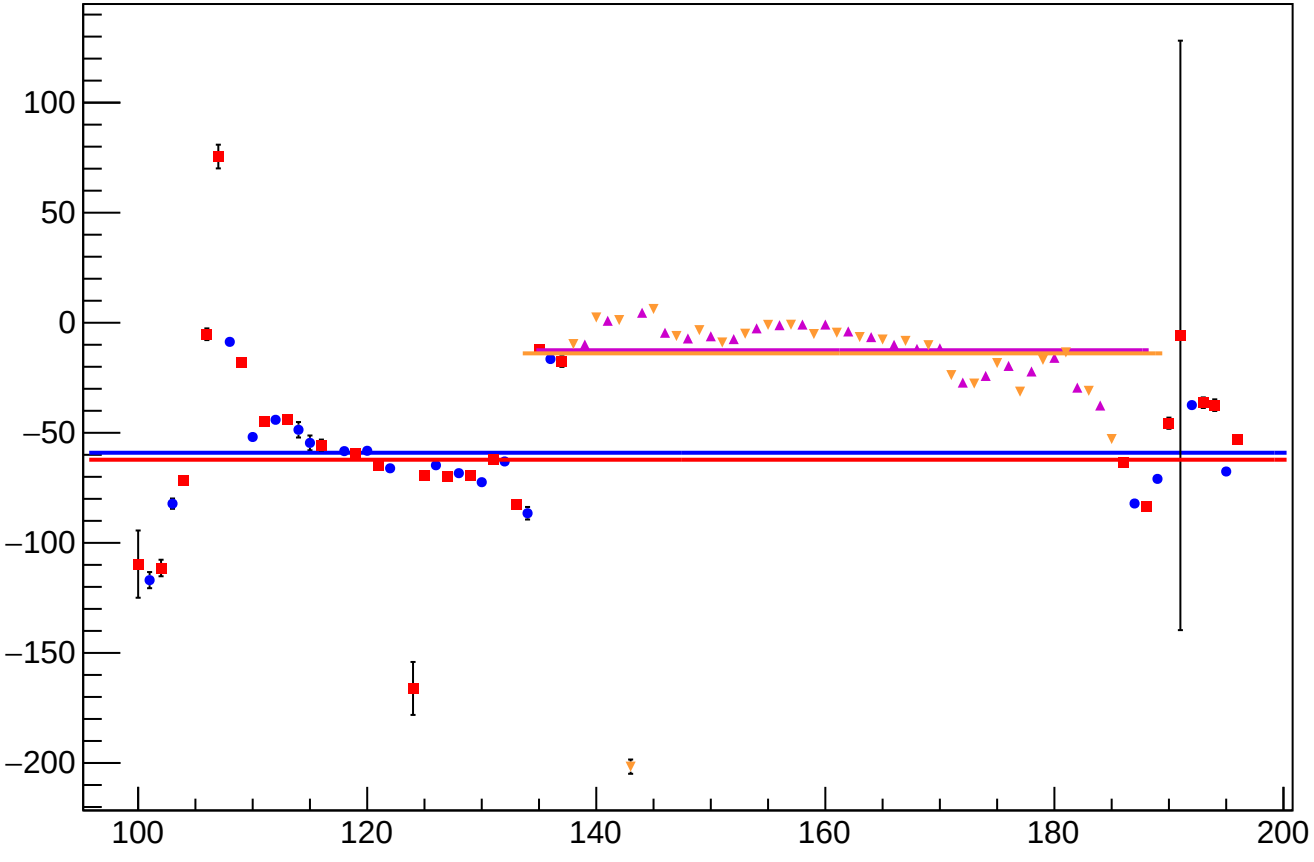
Right: 0.543+/-0.275 $\chi^2$/NDF: 723.5/45

In: 1.733+/-0.187 $\chi^2$/NDF:621.5/42

Out: 1.183+/-0.179 $\chi^2$/NDF:682.9/50

All: 1.447+/-0.129 $\chi^2$/NDF: 1308.9/93

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -59.058+/-0.398 $\chi^2$/NDF: 3214.4/19

Left Out: -13.908+/-0.265 $\chi^2$/NDF:5128.3/24

Right Out: -62.233+/-0.318 $\chi^2$/NDF: 5204.2/25

Left In: -12.494+/-0.269 $\chi^2$/NDF:1430.3/22

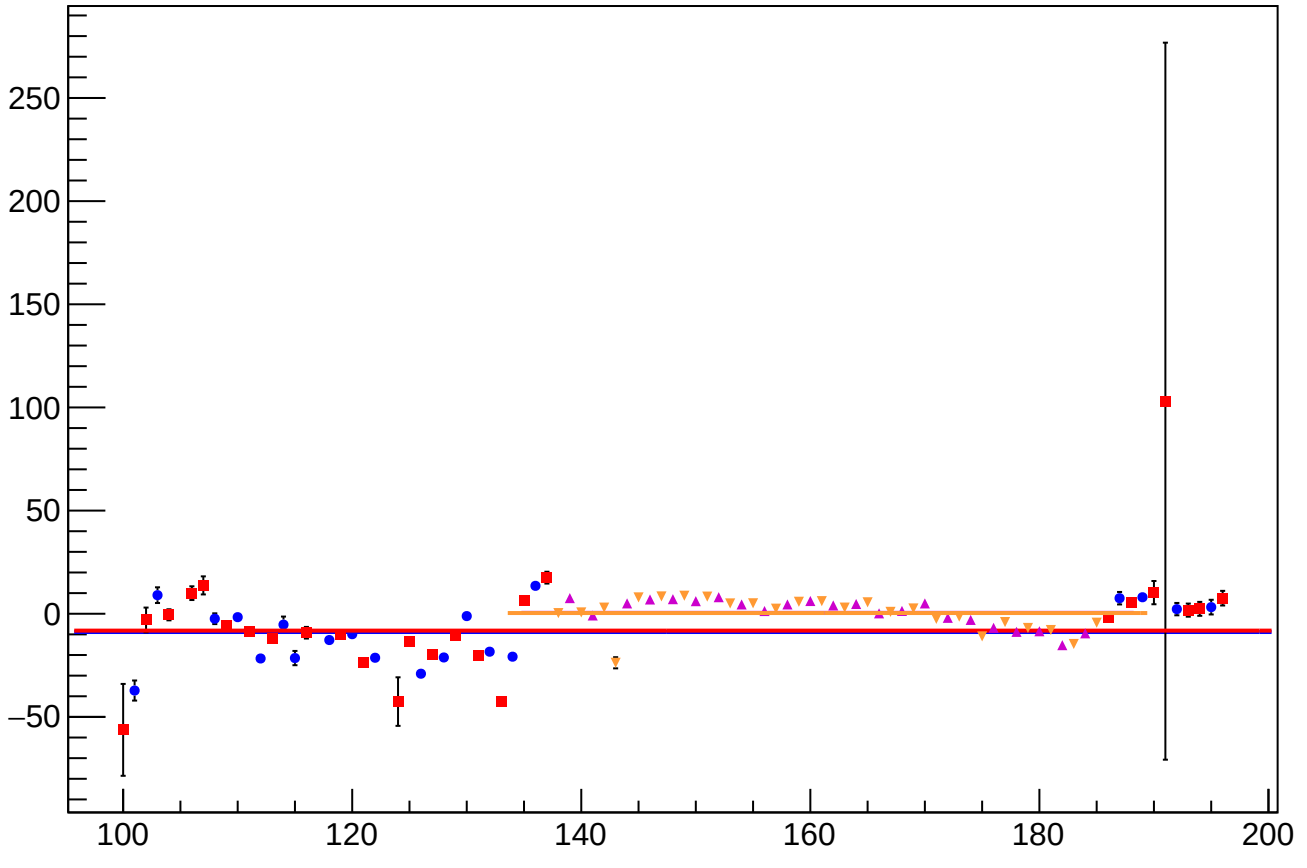
Left: -13.212+/-0.189 $\chi^2$/NDF: 6572.6/47

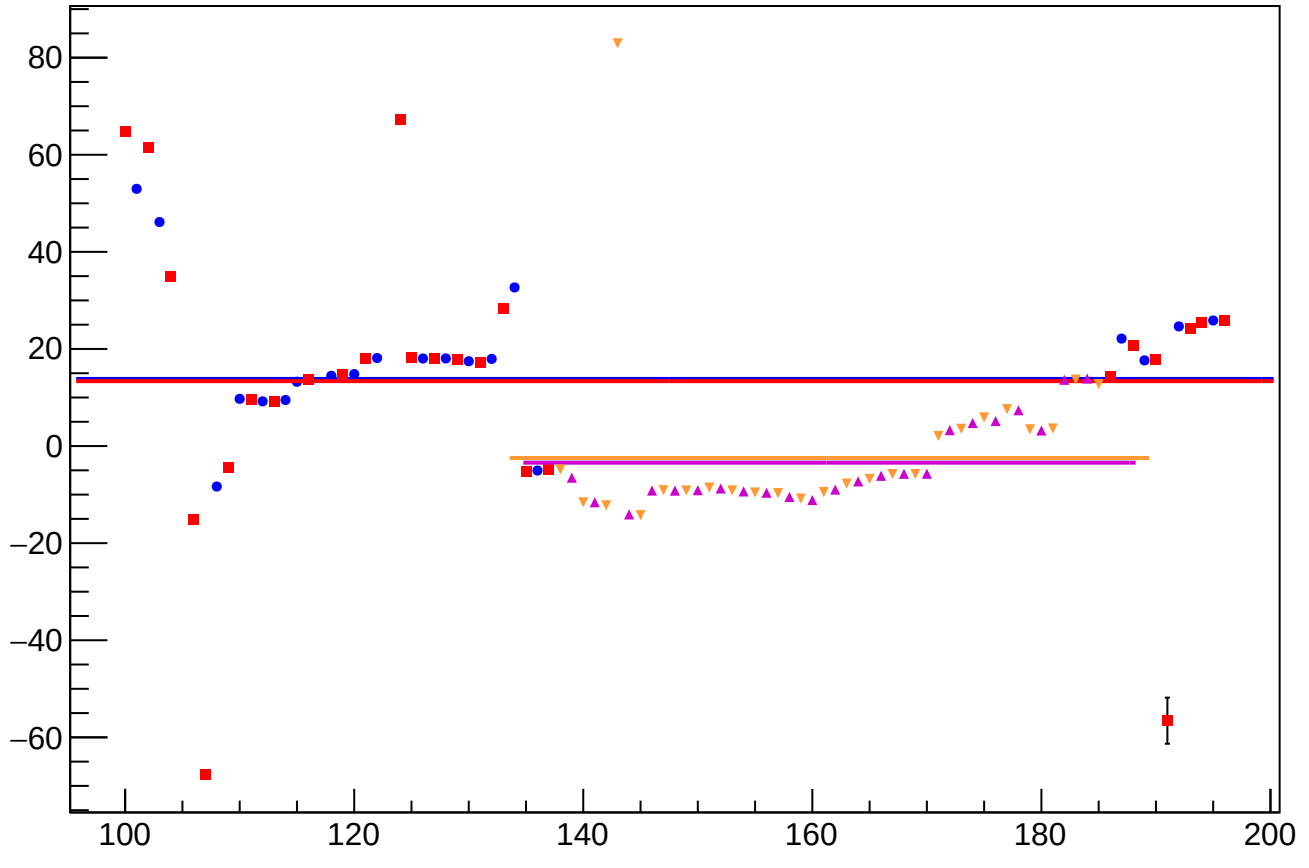
Right: -60.996+/-0.249 $\chi^2$/NDF: 8457.4/45

In: -27.062+/-0.223 $\chi^2$/NDF:14039.9/42

Out: -33.679+/-0.203 $\chi^2$/NDF:23968.1/50

All: -30.669+/-0.150 $\chi^2$/NDF: 38489.2/93


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
250
200
150
100
50
0
−50
100
120
140
160
180
200
Right In: -8.855+/-0.477 χ²/NDF: 786.8/19
Left Out: 0.345+/-0.231 χ²/NDF:921.9/24
Right Out: -8.176+/-0.451 χ²/NDF: 852.4/25
Left In: 0.433+/-0.237 χ²/NDF:782.1/22
Left: 0.388+/-0.165 χ²/NDF: 1704.0/47
Right: -8.497+/-0.327 χ²/NDF: 1640.3/45
In: -1.403+/-0.212 χ²/NDF:1873.5/42
Out: -1.432+/-0.206 χ²/NDF:2057.3/50
All: -1.418+/-0.148 χ²/NDF: 3930.8/93




Right In: 13.824+/-0.026 $\chi^2$/NDF: 385528.7/19

Left Out: -2.452+/-0.010 $\chi^2$/NDF:961833.3/24

Right Out: 13.371+/-0.025 $\chi^2$/NDF: 507236.9/25

Left In: -3.418+/-0.010 $\chi^2$/NDF:546802.2/22

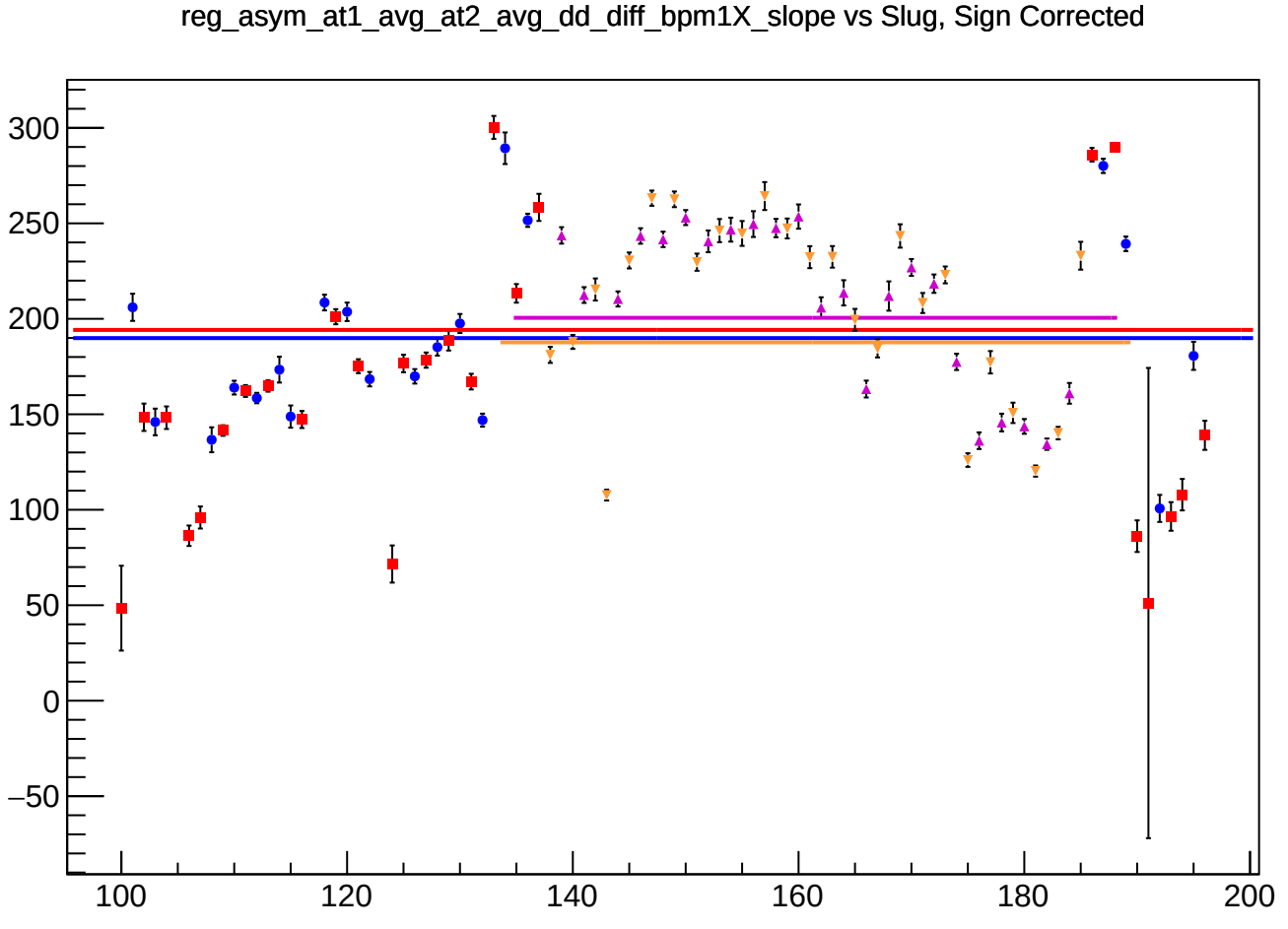
Left: -2.931+/-0.007 $\chi^2$/NDF: 1512952.8/47

Right: 13.587+/-0.018 $\chi^2$/NDF: 892919.3/45

In: -1.086+/-0.010 $\chi^2$/NDF:1301234.2/42

Out: -0.171+/-0.010 $\chi^2$/NDF:1805878.1/50

All: -0.622+/-0.007 $\chi^2$/NDF: 3111616.9/93




Right In: 189.902+/-0.990 $\chi^2$/NDF: 1969.4/19

Left Out: 187.681+/-0.898 $\chi^2$/NDF:3528.3/24

Right Out: 194.186+/-0.858 $\chi^2$/NDF: 5677.9/25

Left In: 200.521+/-0.955 $\chi^2$/NDF:2111.4/22

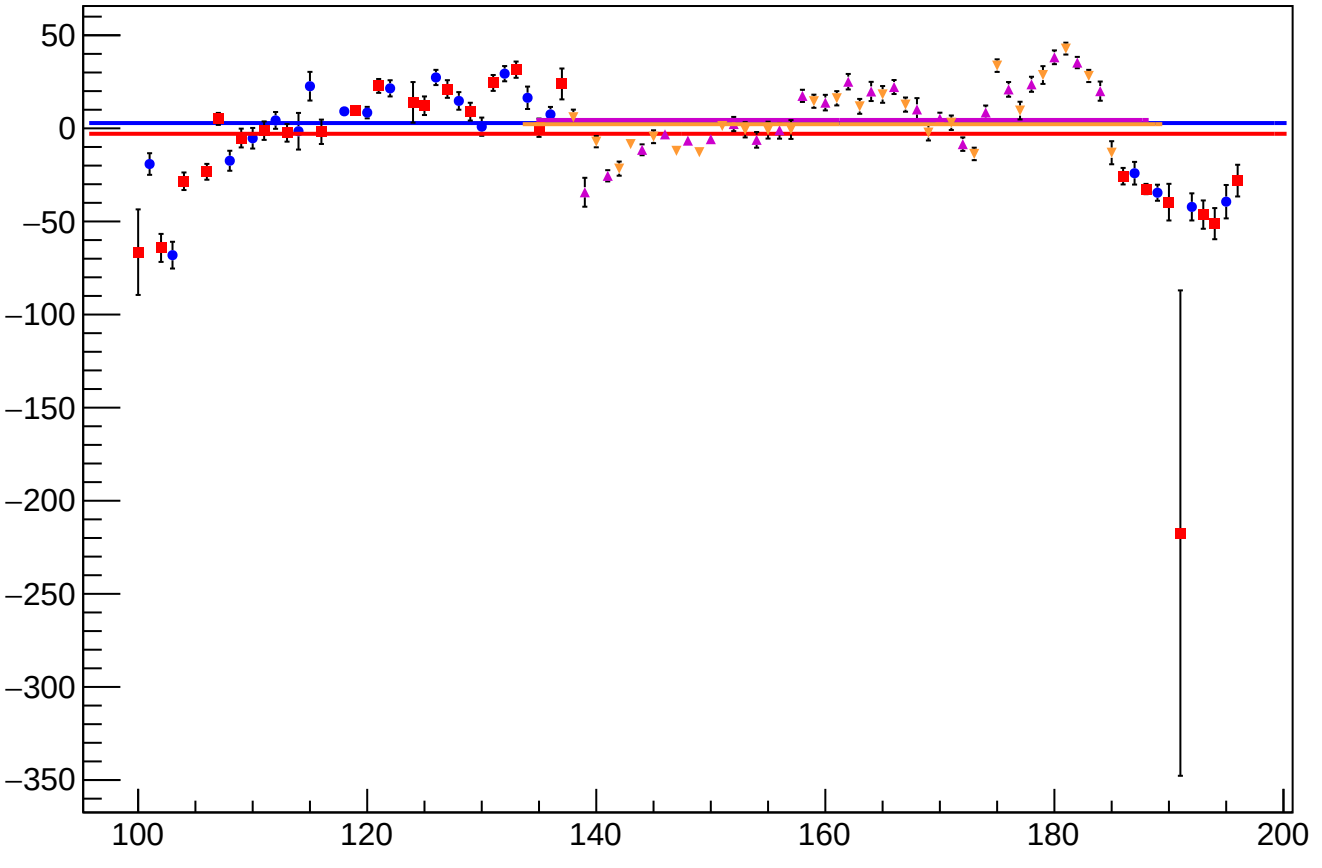
Left: 193.703+/-0.654 $\chi^2$/NDF: 5735.7/47

Right: 192.348+/-0.649 $\chi^2$/NDF: 7658.0/45

In: 195.405+/-0.687 $\chi^2$/NDF:4140.4/42

Out: 191.079+/-0.620 $\chi^2$/NDF:9233.6/50

All: 193.020+/-0.461 $\chi^2$/NDF: 13395.9/93




Right In: 2.848+/-1.043 $\chi^2$/NDF: 409.1/19

Left Out: 2.245+/-0.665 $\chi^2$/NDF:600.9/24

Right Out: -2.918+/-0.943 $\chi^2$/NDF: 595.2/25

Left In: 4.513+/-0.714 $\chi^2$/NDF:547.1/22

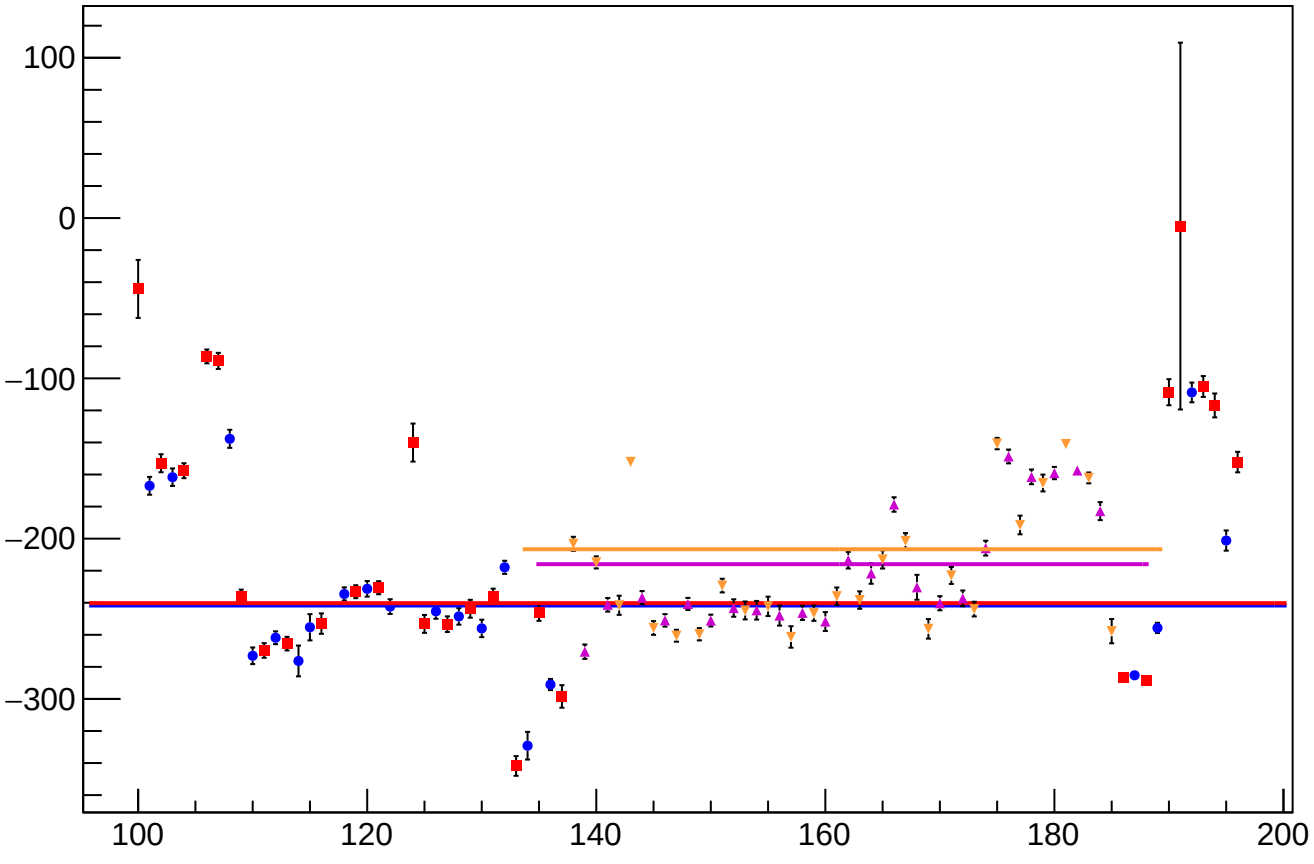
Left: 3.298+/-0.486 $\chi^2$/NDF: 1153.4/47

Right: -0.325+/-0.700 $\chi^2$/NDF: 1021.1/45

In: 3.981+/-0.589 $\chi^2$/NDF:957.9/42

Out: 0.532+/-0.543 $\chi^2$/NDF:1216.1/50

All: 2.117+/-0.399 $\chi^2$/NDF: 2192.6/93




Right In: -241.709+/-1.054 $\chi^2$/NDF: 1891.3/19

Left Out: -206.617+/-0.895 $\chi^2$/NDF:2467.8/24

Right Out: -240.256+/-0.870 $\chi^2$/NDF: 5725.8/25

Left In: -215.938+/-0.946 $\chi^2$/NDF:1711.9/22

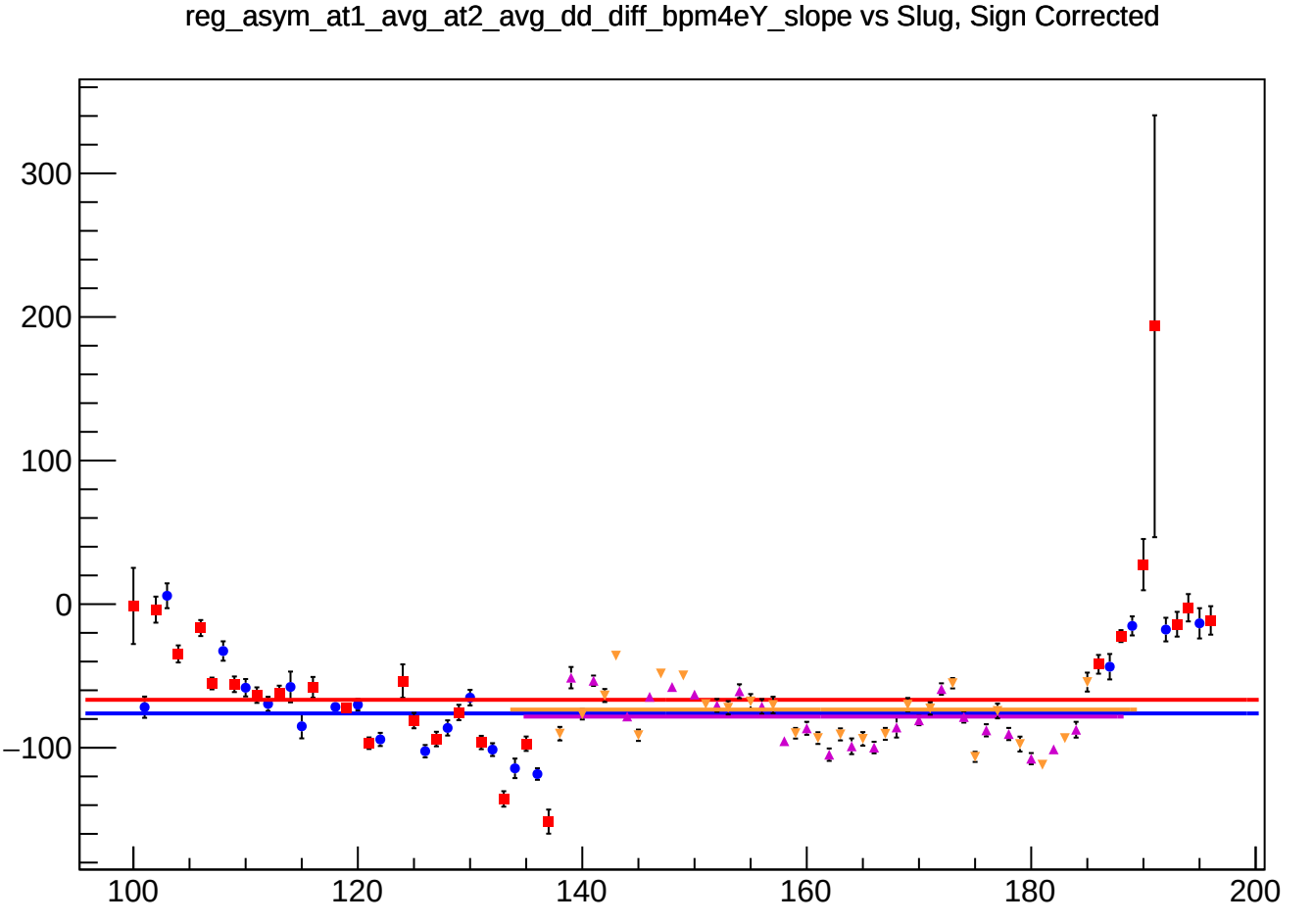
Left: -211.017+/-0.650 $\chi^2$/NDF: 4230.9/47

Right: -240.845+/-0.671 $\chi^2$/NDF: 7618.3/45

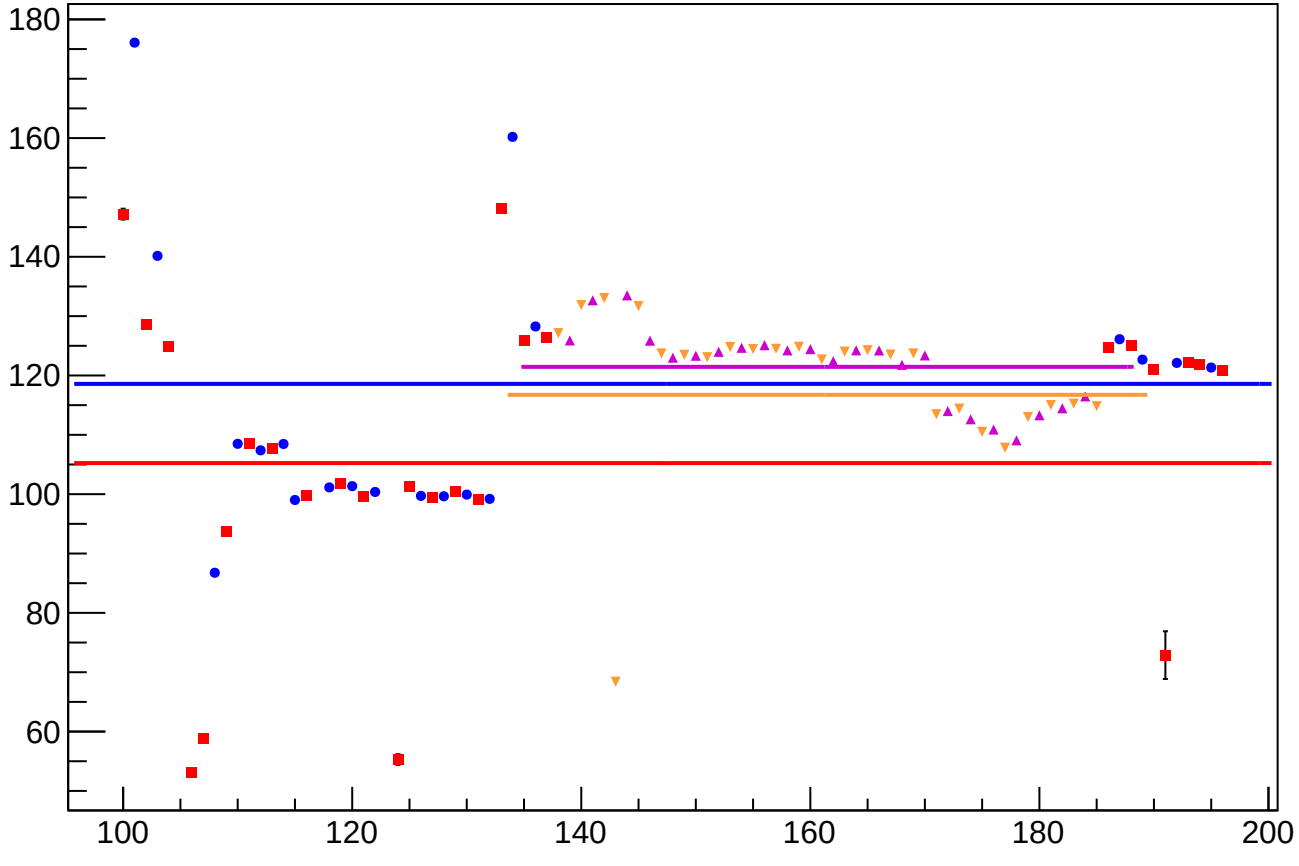
In: -227.433+/-0.704 $\chi^2$/NDF:3934.2/42

Out: -223.915+/-0.624 $\chi^2$/NDF:8920.5/50

All: -225.461+/-0.467 $\chi^2$/NDF: 12868.6/93


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
300
200
100
0
−100
100
120
140
160
180
200
Right In: -76.121+/-1.228 χ2/NDF: 567.4/19
Left Out: -73.426+/-0.767 χ2/NDF:836.6/24
Right Out: -66.629+/-1.132 χ2/NDF: 894.7/25
Left In: -78.329+/-0.817 χ2/NDF:443.2/22
Left: -75.722+/-0.559 χ2/NDF: 1298.9/47
Right: -70.990+/-0.832 χ2/NDF: 1494.4/45
In: -77.651+/-0.680 χ2/NDF:1012.9/42
Out: -71.288+/-0.635 χ2/NDF:1756.0/50
All: -74.250+/-0.464 χ2/NDF: 2815.6/93

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 118.583+/-0.070 $\chi^2$/NDF: 96189.3/19

Left Out: 116.740+/-0.036 $\chi^2$/NDF:203650.9/24

Right Out: 105.238+/-0.061 $\chi^2$/NDF: 193051.6/25

Left In: 121.455+/-0.037 $\chi^2$/NDF:28796.4/22

Left: 119.004+/-0.026 $\chi^2$/NDF: 240766.9/47

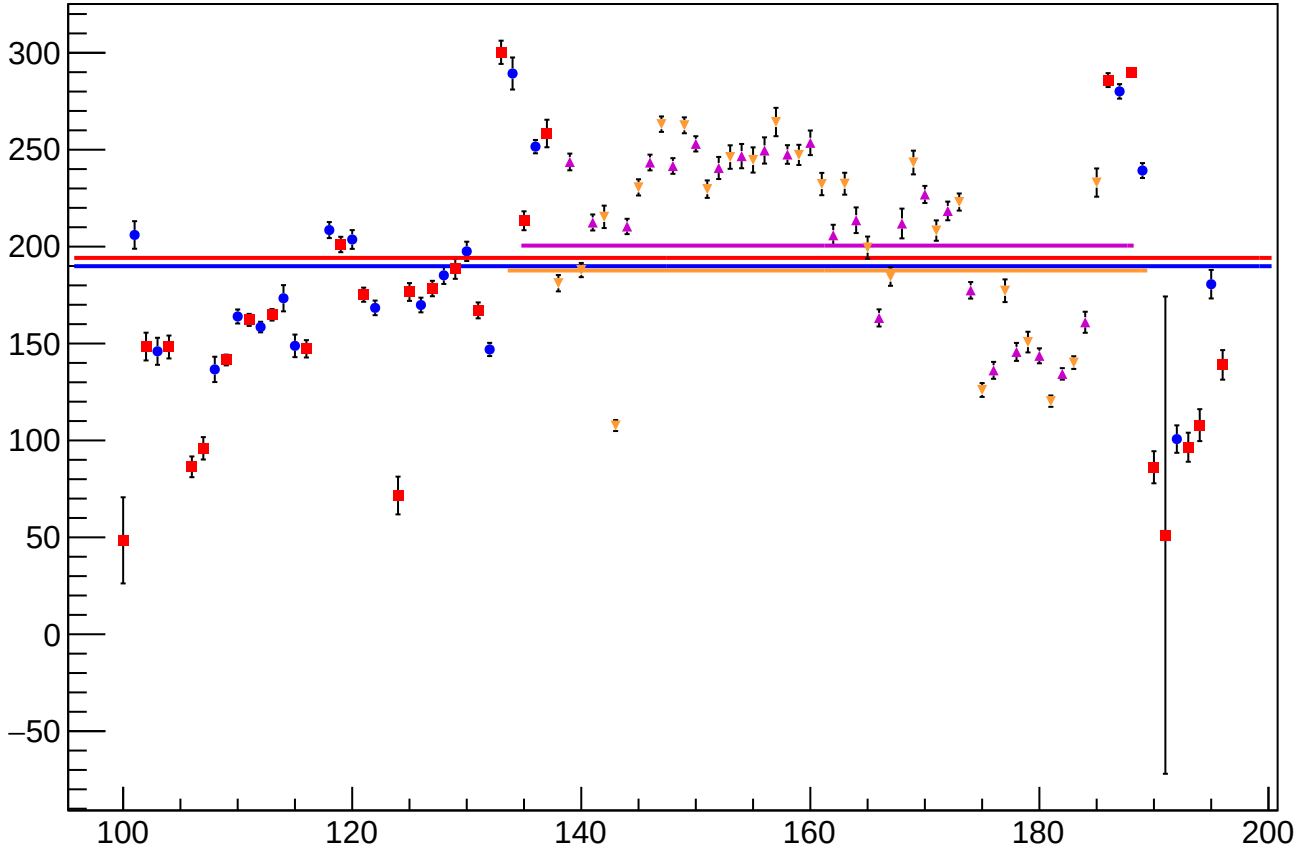
Right: 110.977+/-0.046 $\chi^2$/NDF: 309700.5/45

In: 120.827+/-0.033 $\chi^2$/NDF:126284.8/42

Out: 113.805+/-0.031 $\chi^2$/NDF:423023.7/50

All: 117.093+/-0.023 $\chi^2$/NDF: 573472.5/93

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 189.902+/-0.990 $\chi^2$/NDF: 1969.4/19

Left Out: 187.681+/-0.898 $\chi^2$/NDF:3528.3/24

Right Out: 194.186+/-0.858 $\chi^2$/NDF: 5677.9/25

Left In: 200.521+/-0.955 $\chi^2$/NDF:2111.4/22

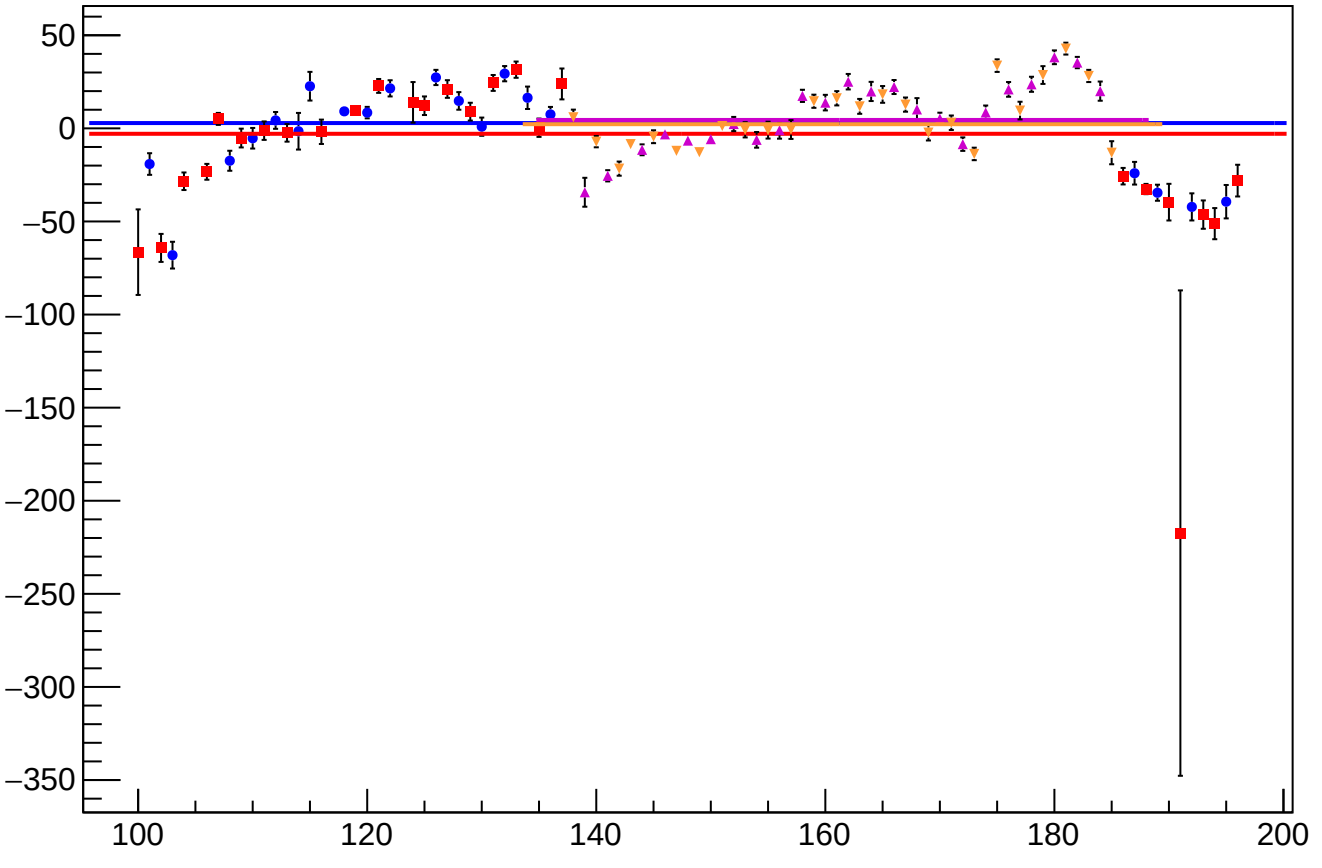
Left: 193.703+/-0.654 $\chi^2$/NDF: 5735.7/47

Right: 192.348+/-0.649 $\chi^2$/NDF: 7658.0/45

In: 195.405+/-0.687 $\chi^2$/NDF:4140.4/42

Out: 191.079+/-0.620 $\chi^2$/NDF:9233.6/50

All: 193.020+/-0.461 $\chi^2$/NDF: 13395.9/93




Right In: 2.848+/-1.043 $\chi^2$/NDF: 409.1/19

Left Out: 2.245+/-0.665 $\chi^2$/NDF:600.9/24

Right Out: -2.918+/-0.943 $\chi^2$/NDF: 595.2/25

Left In: 4.513+/-0.714 $\chi^2$/NDF:547.1/22

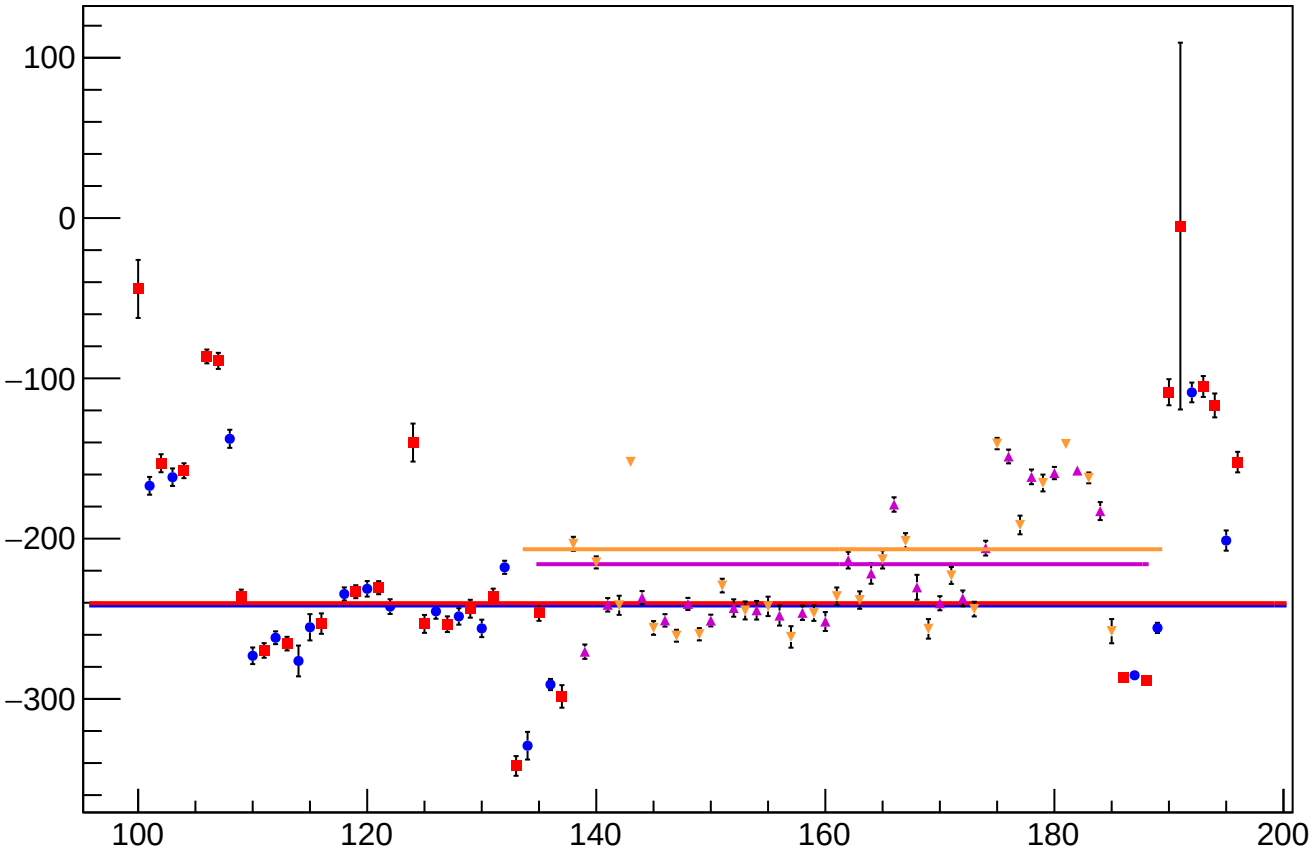
Left: 3.298+/-0.486 $\chi^2$/NDF: 1153.4/47

Right: -0.325+/-0.700 $\chi^2$/NDF: 1021.1/45

In: 3.981+/-0.589 $\chi^2$/NDF:957.9/42

Out: 0.532+/-0.543 $\chi^2$/NDF:1216.1/50

All: 2.117+/-0.399 $\chi^2$/NDF: 2192.6/93




Right In: -241.709+/-1.054 $\chi^2$/NDF: 1891.3/19

Left Out: -206.617+/-0.895 $\chi^2$/NDF:2467.8/24

Right Out: -240.256+/-0.870 $\chi^2$/NDF: 5725.8/25

Left In: -215.938+/-0.946 $\chi^2$/NDF:1711.9/22

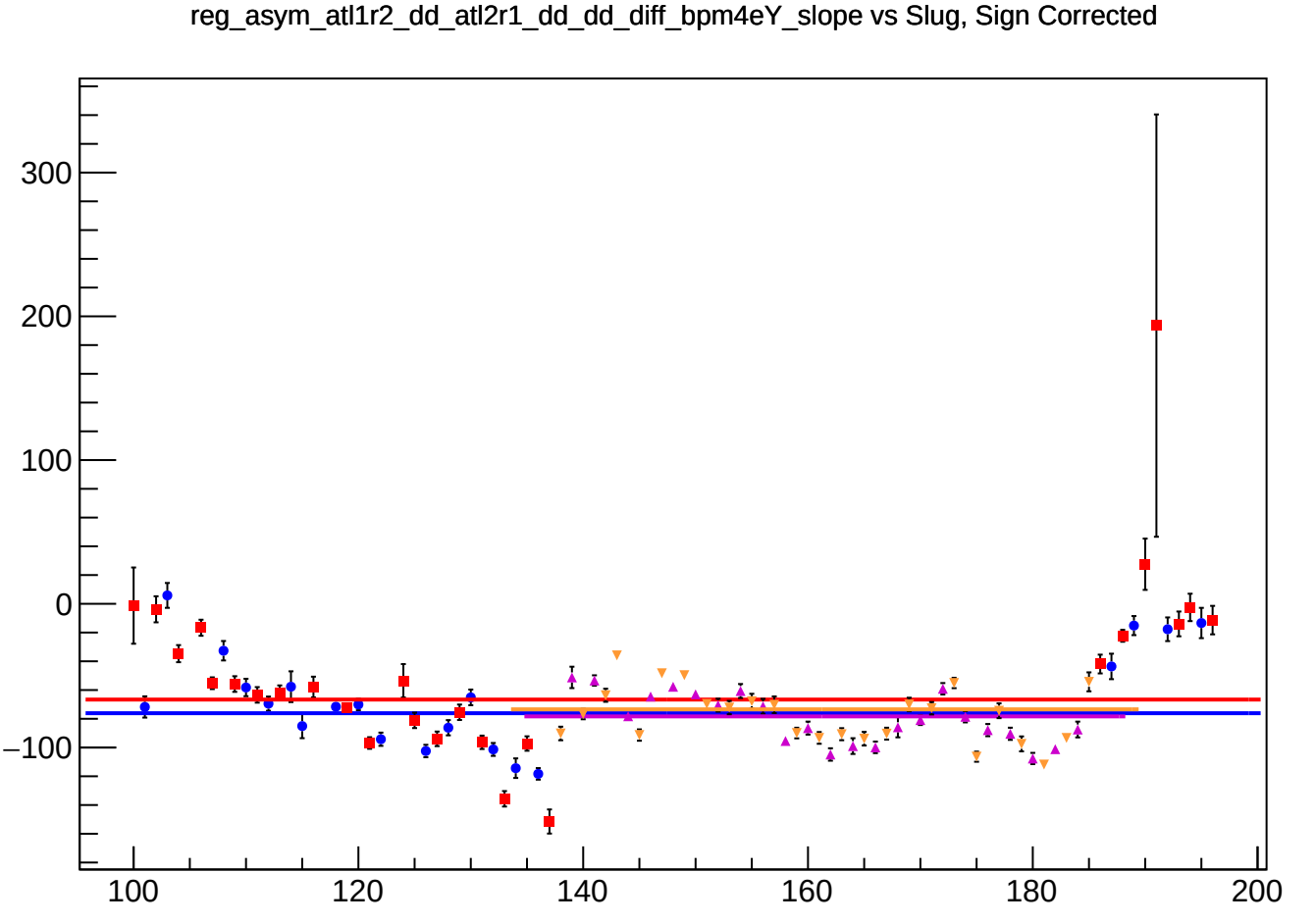
Left: -211.017+/-0.650 $\chi^2$/NDF: 4230.9/47

Right: -240.845+/-0.671 $\chi^2$/NDF: 7618.3/45

In: -227.433+/-0.704 $\chi^2$/NDF:3934.2/42

Out: -223.915+/-0.624 $\chi^2$/NDF:8920.5/50

All: -225.461+/-0.467 $\chi^2$/NDF: 12868.6/93




Right In: -76.121+/-1.228 $\chi^2$/NDF: 567.4/19

Left Out: -73.426+/-0.767 $\chi^2$/NDF:836.6/24

Right Out: -66.629+/-1.132 $\chi^2$/NDF: 894.7/25

Left In: -78.329+/-0.817 $\chi^2$/NDF:443.2/22

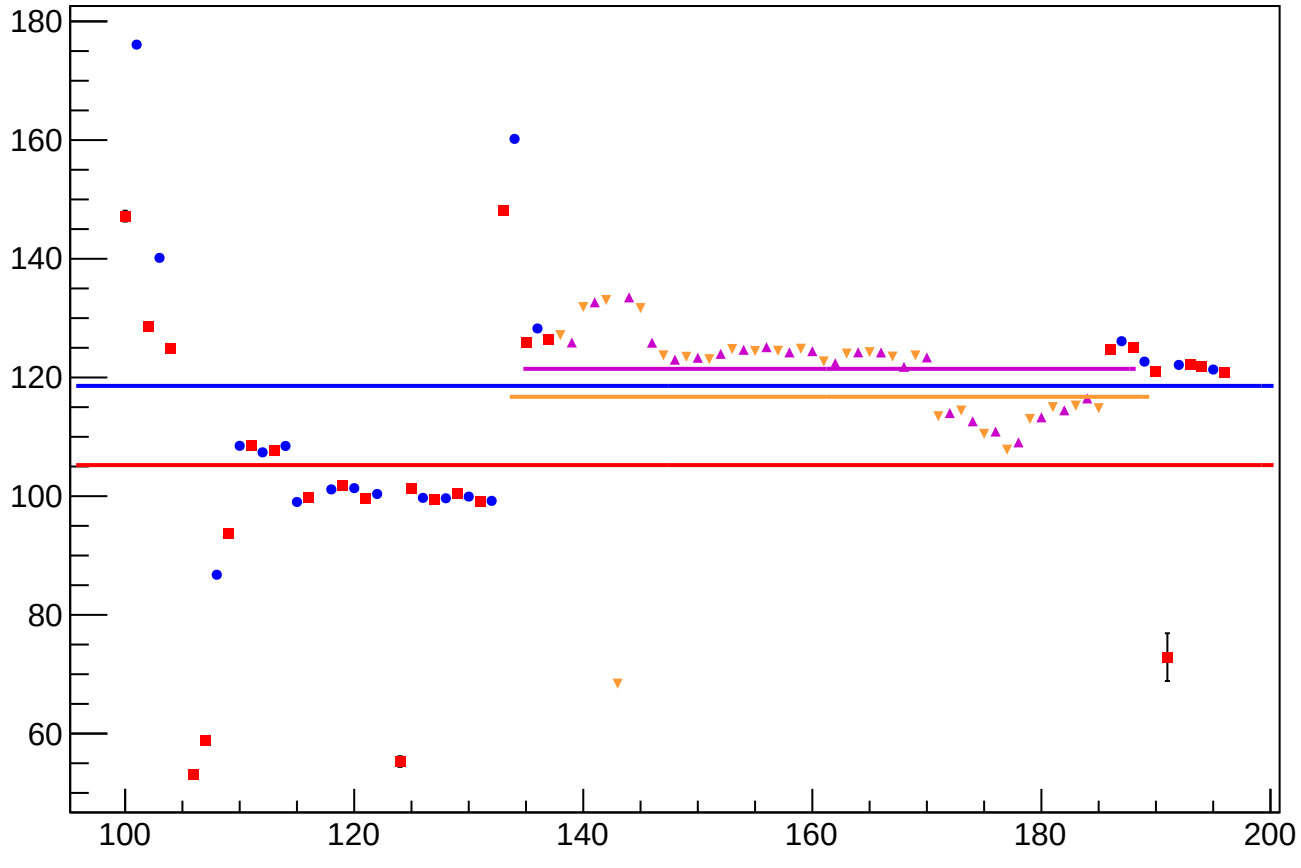
Left: -75.722+/-0.559 $\chi^2$/NDF: 1298.9/47

Right: -70.990+/-0.832 $\chi^2$/NDF: 1494.4/45

In: -77.651+/-0.680 $\chi^2$/NDF:1012.9/42

Out: -71.288+/-0.635 $\chi^2$/NDF:1756.0/50

All: -74.250+/-0.464 $\chi^2$/NDF: 2815.6/93




Right In: 118.583+/-0.070 $\chi^2$/NDF: 96189.3/19

Left Out: 116.740+/-0.036 $\chi^2$/NDF:203650.9/24

Right Out: 105.238+/-0.061 $\chi^2$/NDF: 193051.6/25

Left In: 121.455+/-0.037 $\chi^2$/NDF:28796.4/22

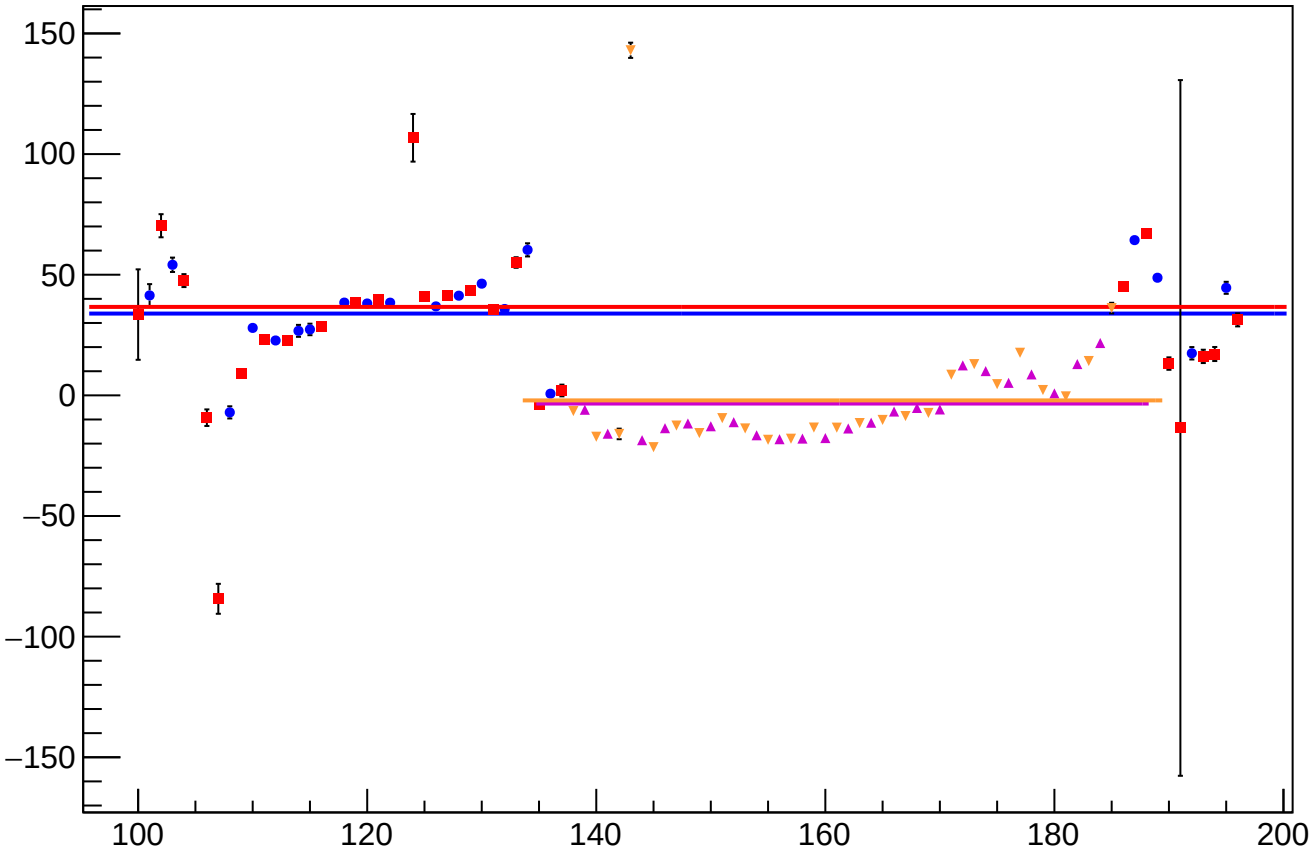
Left: 119.004+/-0.026 $\chi^2$/NDF: 240766.9/47

Right: 110.977+/-0.046 $\chi^2$/NDF: 309700.5/45

In: 120.827+/-0.033 $\chi^2$/NDF:126284.8/42

Out: 113.805+/-0.031 $\chi^2$/NDF:423023.7/50

All: 117.093+/-0.023 $\chi^2$/NDF: 573472.5/93




Right In: 33.899+/-0.377 $\chi^2$/NDF: 2210.7/19

Left Out: -2.091+/-0.267 $\chi^2$/NDF:4201.3/24

Right Out: 36.658+/-0.322 $\chi^2$/NDF: 4488.3/25

Left In: -3.391+/-0.271 $\chi^2$/NDF:1752.8/22

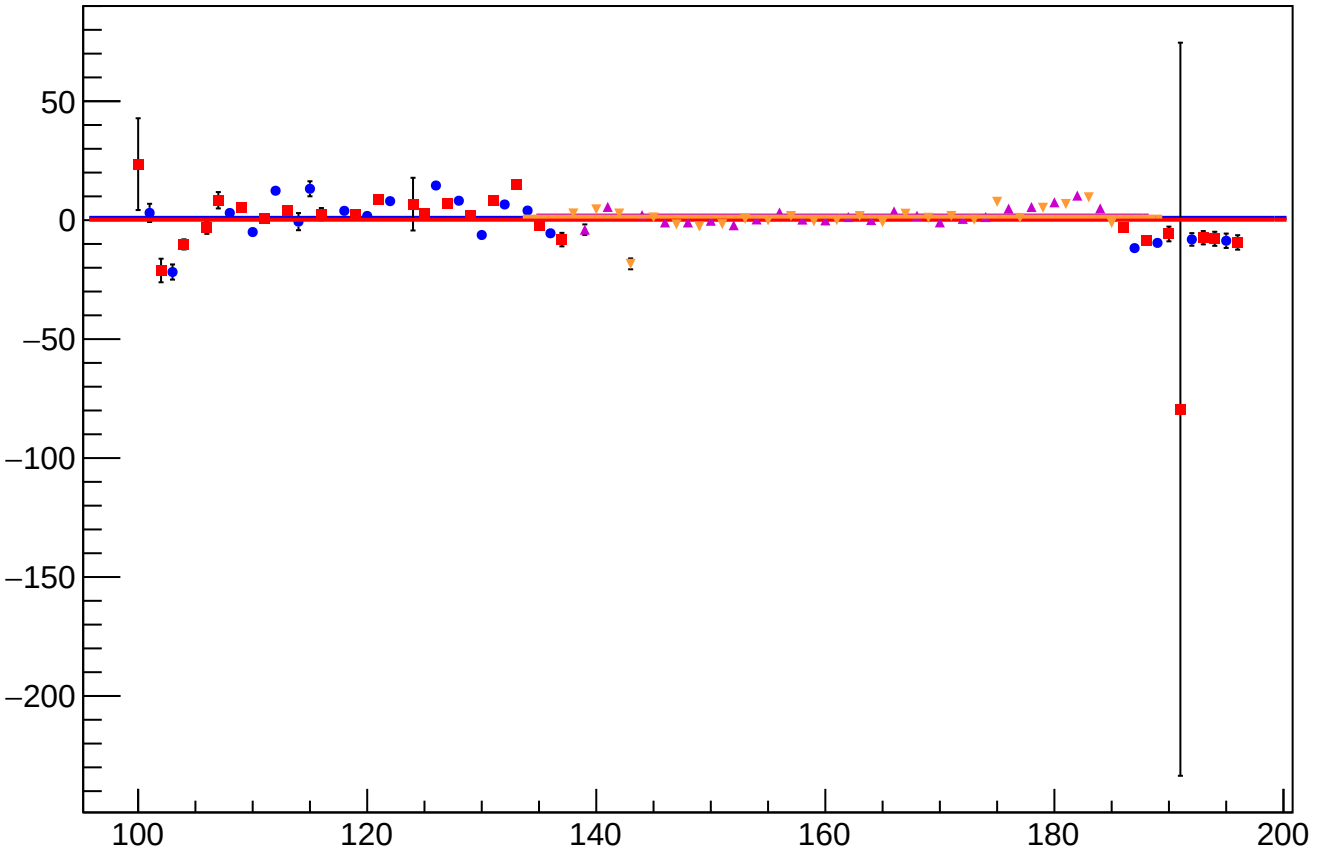
Left: -2.730+/-0.190 $\chi^2$/NDF: 5965.8/47

Right: 35.496+/-0.245 $\chi^2$/NDF: 6730.0/45

In: 9.315+/-0.220 $\chi^2$/NDF:10401.4/42

Out: 13.694+/-0.205 $\chi^2$/NDF:17284.4/50

All: 11.658+/-0.150 $\chi^2$/NDF: 27897.1/93




Right In: 0.981+/-0.407 $\chi^2$/NDF: 376.5/19

Left Out: 1.489+/-0.205 $\chi^2$/NDF:328.6/24

Right Out: 0.178+/-0.372 $\chi^2$/NDF: 344.8/25

Left In: 1.933+/-0.210 $\chi^2$/NDF:240.7/22

Left: 1.705+/-0.147 $\chi^2$/NDF: 571.5/47

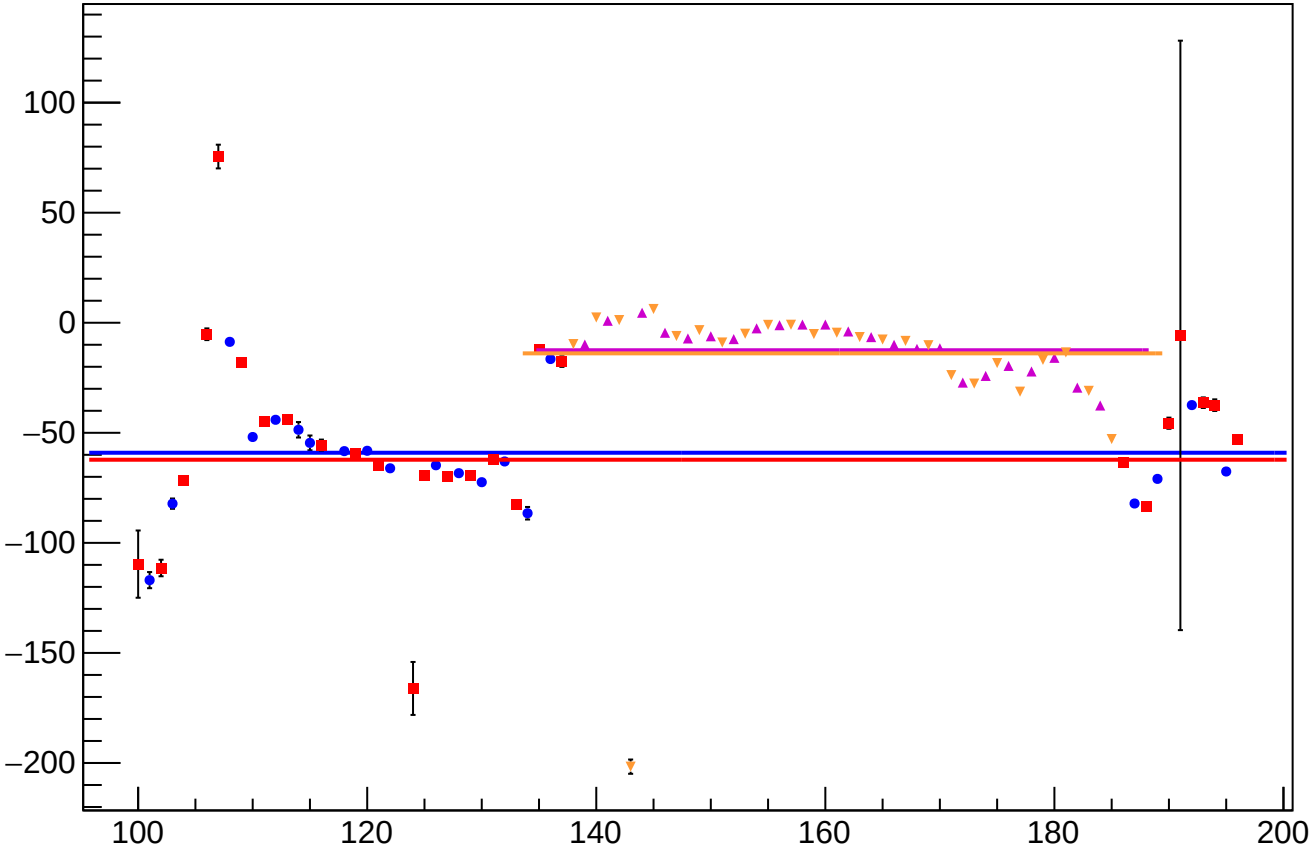
Right: 0.543+/-0.275 $\chi^2$/NDF: 723.5/45

In: 1.733+/-0.187 $\chi^2$/NDF:621.5/42

Out: 1.183+/-0.179 $\chi^2$/NDF:682.9/50

All: 1.447+/-0.129 $\chi^2$/NDF: 1308.9/93

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -59.058+/-0.398 $\chi^2$/NDF: 3214.4/19

Left Out: -13.908+/-0.265 $\chi^2$/NDF:5128.3/24

Right Out: -62.233+/-0.318 $\chi^2$/NDF: 5204.2/25

Left In: -12.494+/-0.269 $\chi^2$/NDF:1430.3/22

Left: -13.212+/-0.189 $\chi^2$/NDF: 6572.6/47

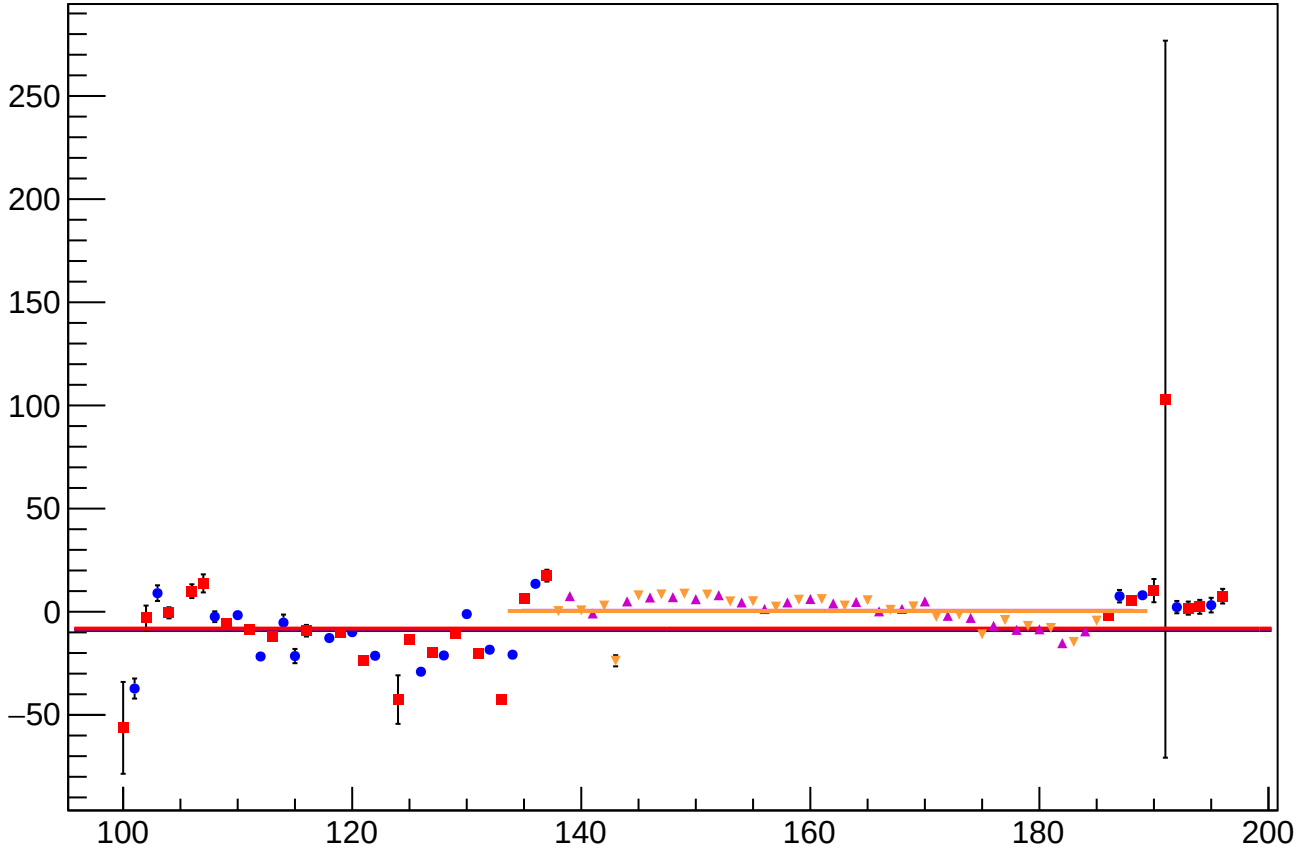
Right: -60.996+/-0.249 $\chi^2$/NDF: 8457.4/45

In: -27.062+/-0.223 $\chi^2$/NDF:14039.9/42

Out: -33.679+/-0.203 $\chi^2$/NDF:23968.1/50

All: -30.669+/-0.150 $\chi^2$/NDF: 38489.2/93

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -8.855+/-0.477 $\chi^2$/NDF: 786.8/19

Left Out: 0.345+/-0.231 $\chi^2$/NDF:921.9/24

Right Out: -8.176+/-0.451 $\chi^2$/NDF: 852.4/25

Left In: 0.433+/-0.237 $\chi^2$/NDF:782.1/22

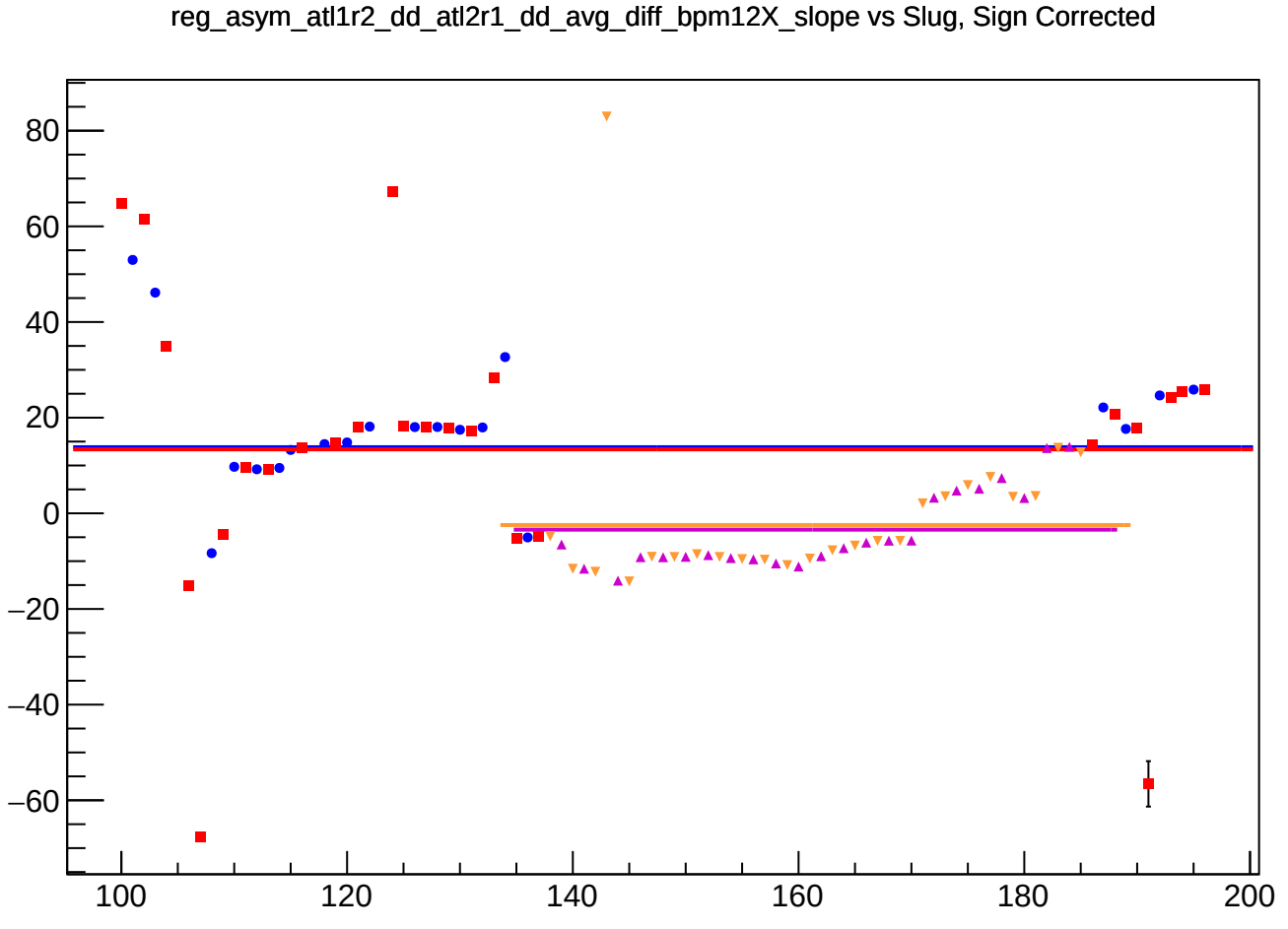
Left: 0.388+/-0.165 $\chi^2$/NDF: 1704.0/47

Right: -8.497+/-0.327 $\chi^2$/NDF: 1640.3/45

In: -1.403+/-0.212 $\chi^2$/NDF:1873.5/42

Out: -1.432+/-0.206 $\chi^2$/NDF:2057.3/50

All: -1.418+/-0.148 $\chi^2$/NDF: 3930.8/93




Right In: 13.824+/-0.026 $\chi^2$/NDF: 385528.7/19

Left Out: -2.452+/-0.010 $\chi^2$/NDF:961833.3/24

Right Out: 13.371+/-0.025 $\chi^2$/NDF: 507236.9/25

Left In: -3.418+/-0.010 $\chi^2$/NDF:546802.2/22

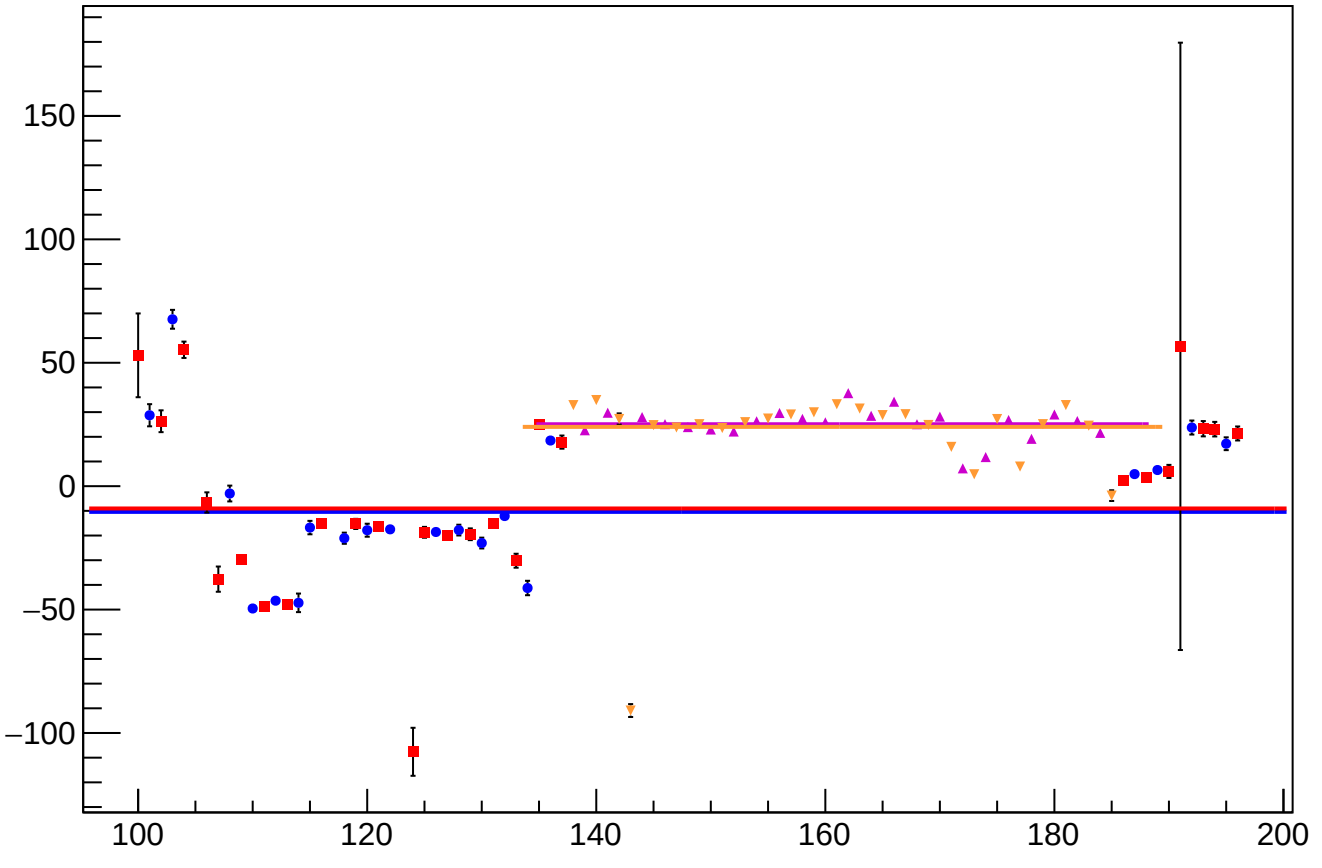
Left: -2.931+/-0.007 $\chi^2$/NDF: 1512952.8/47

Right: 13.587+/-0.018 $\chi^2$/NDF: 892919.3/45

In: -1.086+/-0.010 $\chi^2$/NDF:1301234.2/42

Out: -0.171+/-0.010 $\chi^2$/NDF:1805878.1/50

All: -0.622+/-0.007 $\chi^2$/NDF: 3111616.9/93




Right In: -10.411+/-0.484 $\chi^2$/NDF: 2613.9/19

Left Out: 24.025+/-0.282 $\chi^2$/NDF:2802.2/24

Right Out: -9.038+/-0.423 $\chi^2$/NDF: 2999.5/25

Left In: 25.089+/-0.287 $\chi^2$/NDF:495.3/22

Left: 24.547+/-0.201 $\chi^2$/NDF: 3304.5/47

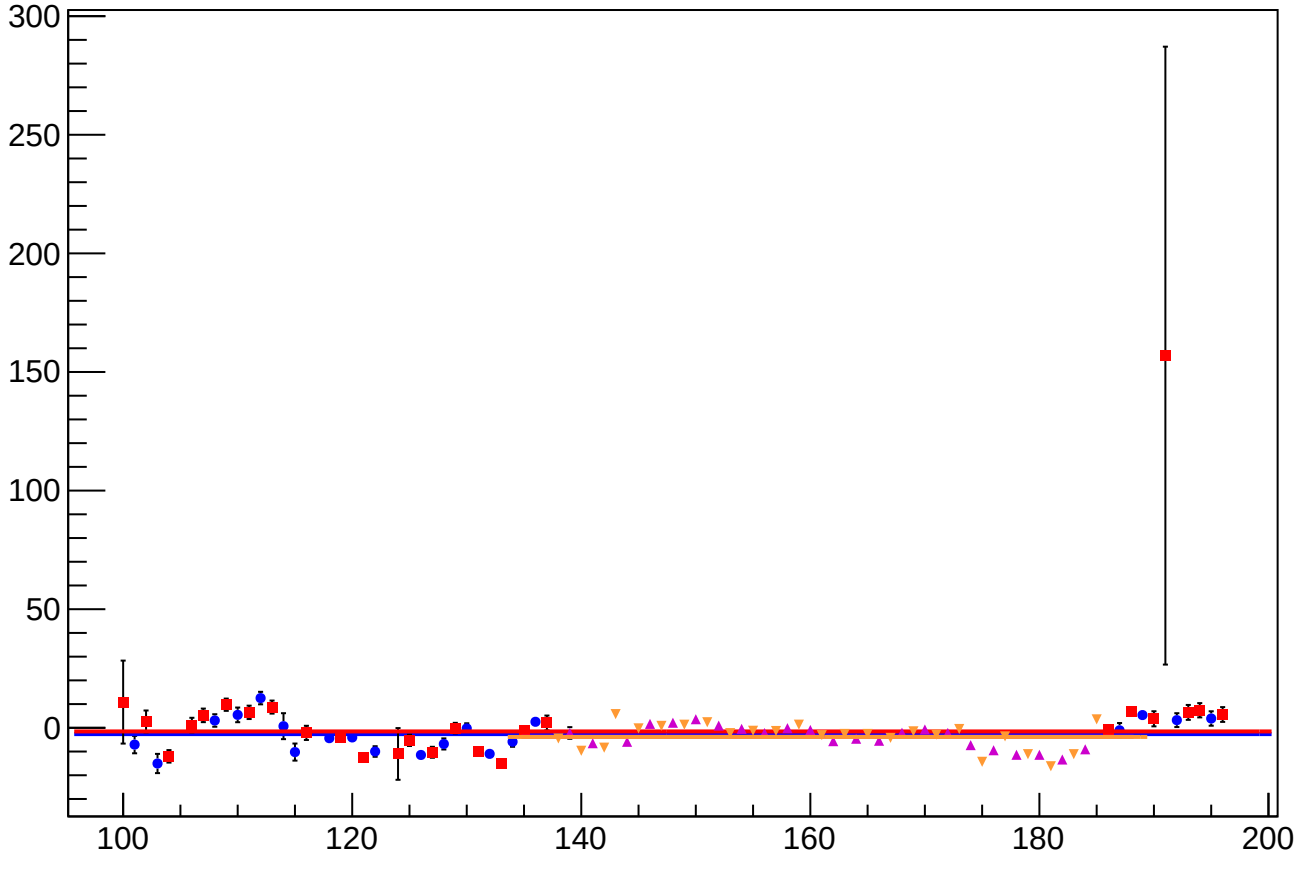
Right: -9.633+/-0.319 $\chi^2$/NDF: 5618.0/45

In: 15.841+/-0.247 $\chi^2$/NDF:7089.1/42

Out: 13.864+/-0.235 $\chi^2$/NDF:10025.7/50

All: 14.802+/-0.170 $\chi^2$/NDF: 17148.4/93

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -2.655+/-0.511 $\chi^2$/NDF: 150.8/19

Left Out: -3.845+/-0.218 $\chi^2$/NDF:649.4/24

Right Out: -1.526+/-0.475 $\chi^2$/NDF: 234.6/25

Left In: -3.780+/-0.224 $\chi^2$/NDF:509.8/22

Left: -3.813+/-0.156 $\chi^2$/NDF: 1159.2/47

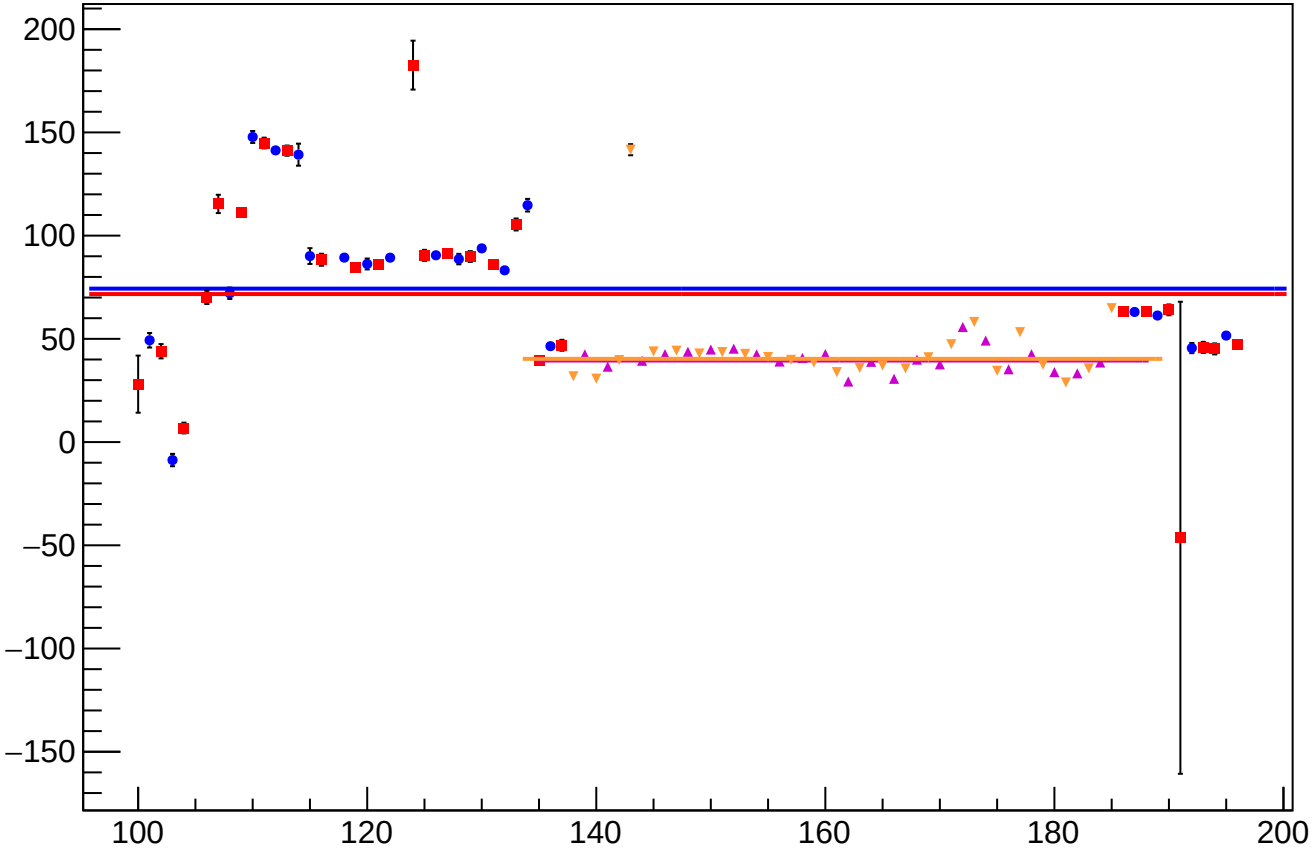
Right: -2.050+/-0.348 $\chi^2$/NDF: 388.0/45

In: -3.599+/-0.205 $\chi^2$/NDF:664.7/42

Out: -3.443+/-0.198 $\chi^2$/NDF:903.6/50

All: -3.518+/-0.142 $\chi^2$/NDF: 1568.7/93

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 74.326+/-0.509 $\chi^2$/NDF: 3710.7/19

Left Out: 40.315+/-0.280 $\chi^2$/NDF:2182.8/24

Right Out: 71.694+/-0.423 $\chi^2$/NDF: 4080.5/25

Left In: 39.504+/-0.285 $\chi^2$/NDF:432.1/22

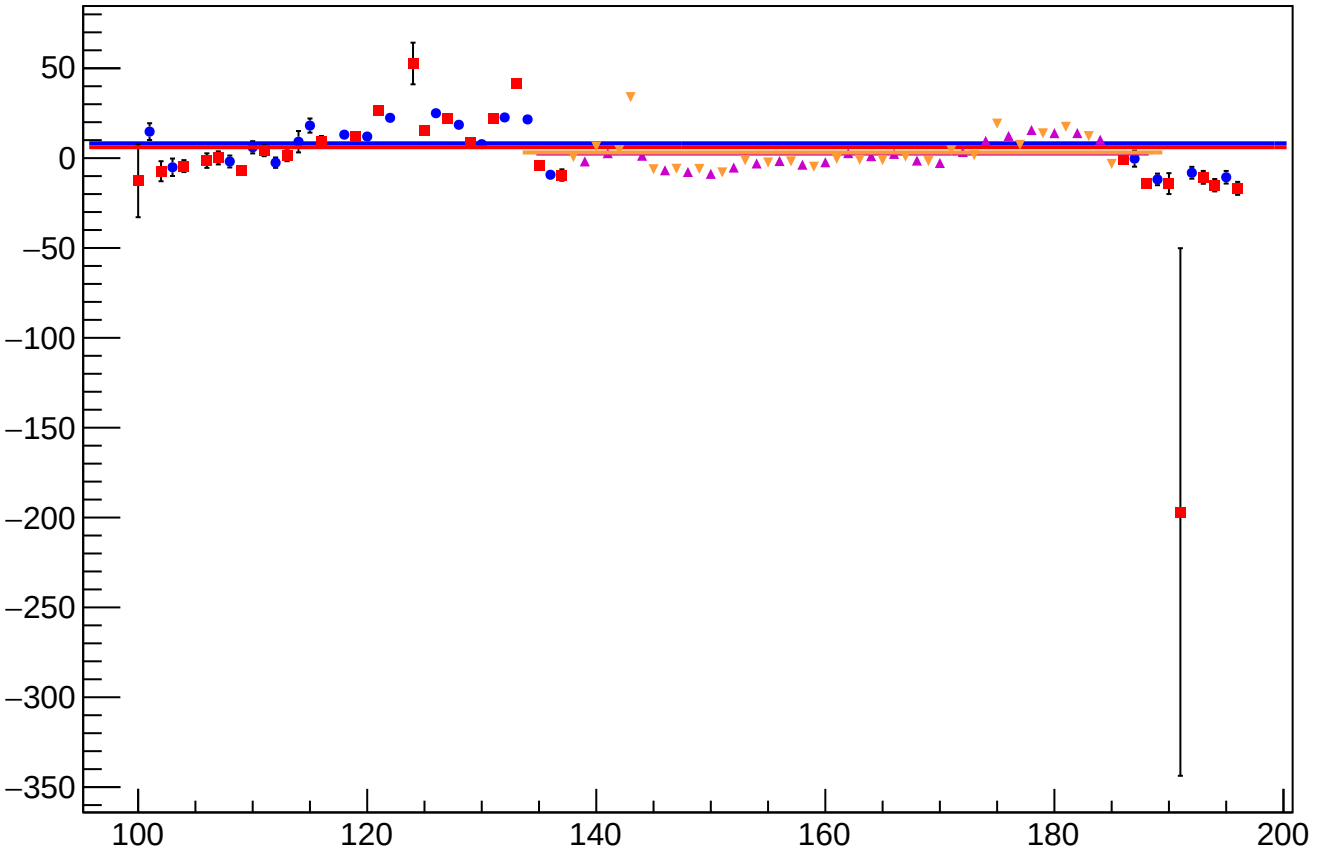
Left: 39.916+/-0.200 $\chi^2$/NDF: 2619.0/47

Right: 72.768+/-0.325 $\chi^2$/NDF: 7807.0/45

In: 47.803+/-0.248 $\chi^2$/NDF:7707.5/42

Out: 49.886+/-0.234 $\chi^2$/NDF:10089.6/50

All: 48.909+/-0.170 $\chi^2$/NDF: 17834.4/93




Right In: 8.249+/-0.591 $\chi^2$/NDF: 467.2/19

Left Out: 3.142+/-0.245 $\chi^2$/NDF:1267.0/24

Right Out: 6.069+/-0.567 $\chi^2$/NDF: 724.4/25

Left In: 2.519+/-0.251 $\chi^2$/NDF:968.2/22

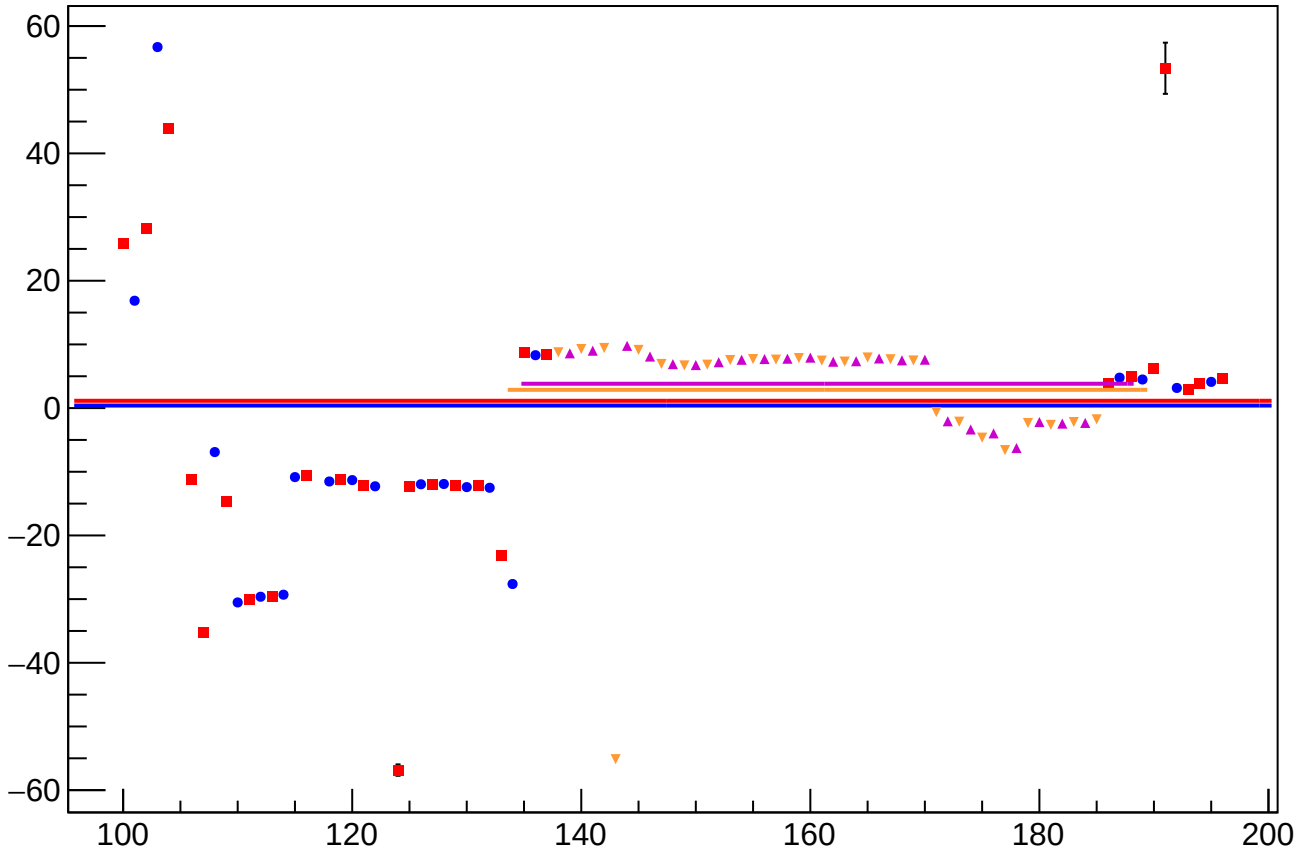
Left: 2.837+/-0.175 $\chi^2$/NDF: 2238.3/47

Right: 7.115+/-0.409 $\chi^2$/NDF: 1198.7/45

In: 3.396+/-0.231 $\chi^2$/NDF:1515.1/42

Out: 3.603+/-0.225 $\chi^2$/NDF:2013.8/50

All: 3.502+/-0.161 $\chi^2$/NDF: 3529.3/93




Right In: 0.401+/-0.031 $\chi^2$/NDF: 372213.9/19

Left Out: 2.870+/-0.011 $\chi^2$/NDF:512331.0/24

Right Out: 1.150+/-0.030 $\chi^2$/NDF: 323083.8/25

Left In: 3.825+/-0.011 $\chi^2$/NDF:233224.7/22

Left: 3.343+/-0.008 $\chi^2$/NDF: 749294.8/47

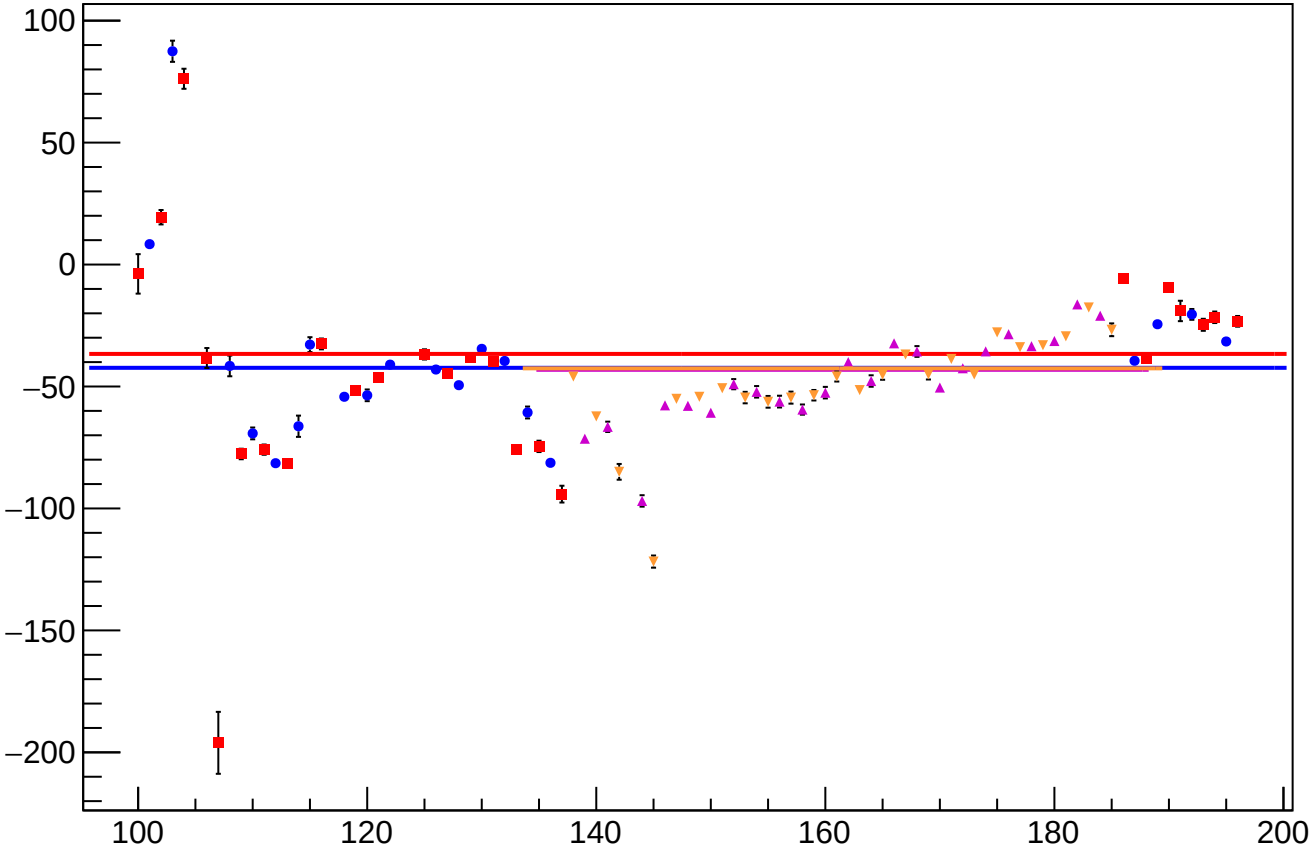
Right: 0.792+/-0.022 $\chi^2$/NDF: 695599.9/45

In: 3.439+/-0.010 $\chi^2$/NDF:616166.7/42

Out: 2.664+/-0.010 $\chi^2$/NDF:838358.6/50

All: 3.046+/-0.007 $\chi^2$/NDF: 1457314.8/93

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -42.339+/-0.448 $\chi^2$/NDF: 3150.5/19

Left Out: -42.560+/-0.378 $\chi^2$/NDF:2326.4/23

Right Out: -36.640+/-0.376 $\chi^2$/NDF: 5085.3/24

Left In: -43.152+/-0.382 $\chi^2$/NDF:2206.6/22

Left: -42.854+/-0.269 $\chi^2$/NDF: 4534.2/46

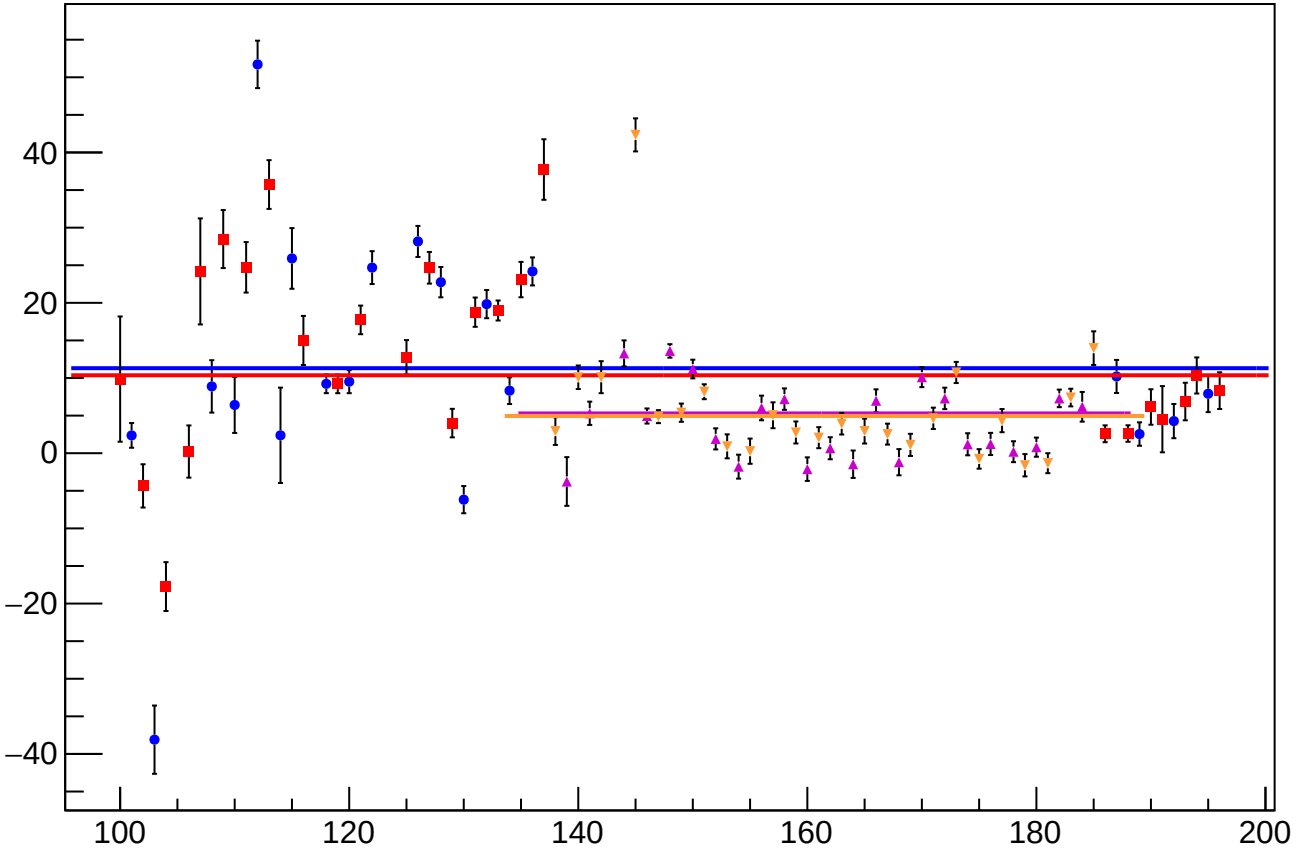
Right: -39.000+/-0.288 $\chi^2$/NDF: 8330.7/44

In: -42.810+/-0.290 $\chi^2$/NDF:5359.0/42

Out: -39.585+/-0.267 $\chi^2$/NDF:7534.9/48

All: -41.061+/-0.196 $\chi^2$/NDF: 12960.7/91

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 11.307+/-0.461 $\chi^2$/NDF: 677.9/19

Left Out: 4.954+/-0.288 $\chi^2$/NDF:449.1/23

Right Out: 10.368+/-0.418 $\chi^2$/NDF: 532.9/24

Left In: 5.292+/-0.294 $\chi^2$/NDF:286.4/22

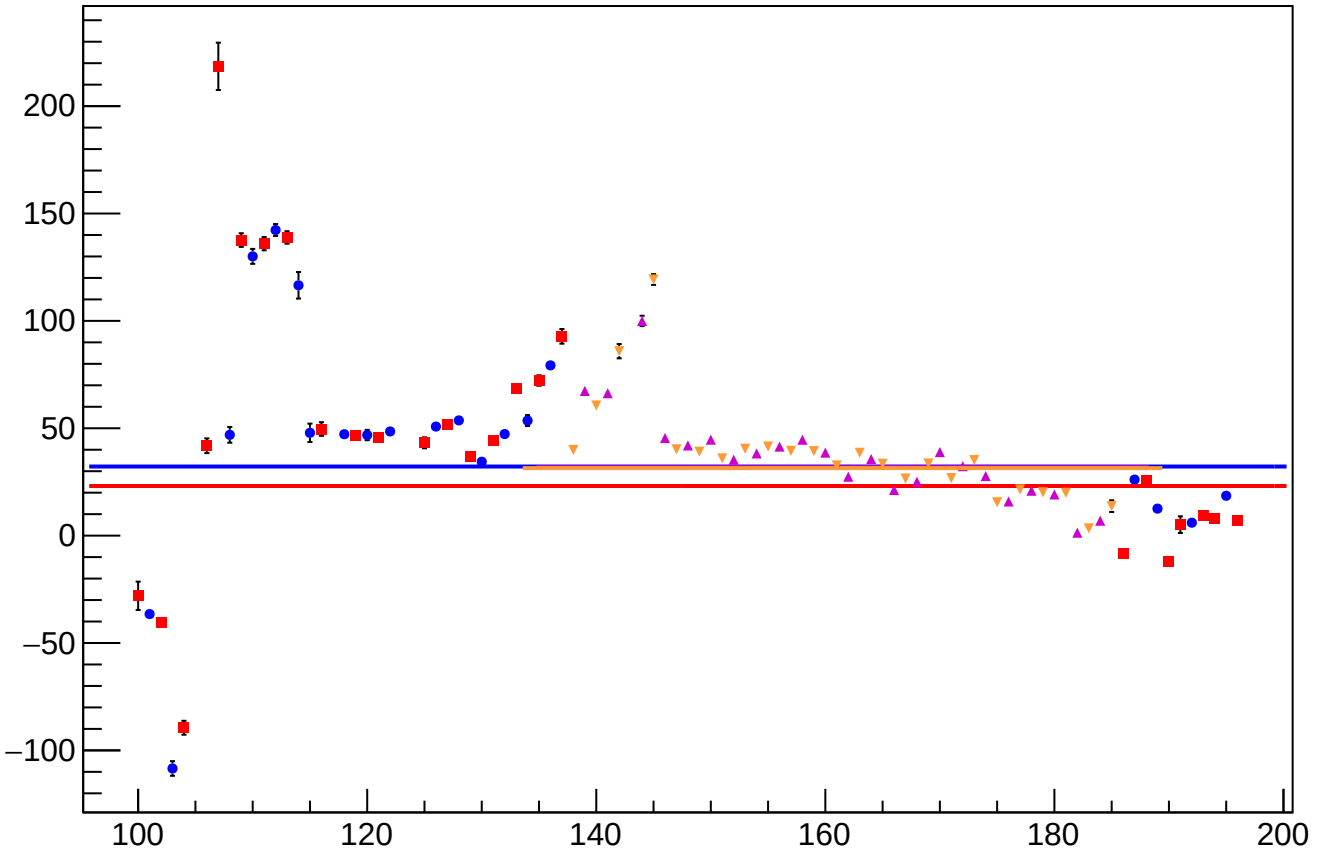
Left: 5.120+/-0.206 $\chi^2$/NDF: 736.1/46

Right: 10.791+/-0.310 $\chi^2$/NDF: 1213.1/44

In: 7.031+/-0.248 $\chi^2$/NDF:1085.1/42

Out: 6.703+/-0.237 $\chi^2$/NDF:1095.7/48

All: 6.860+/-0.172 $\chi^2$/NDF: 2181.7/91




Right In: 32.178+/-0.446 $\chi^2$/NDF: 8020.3/19

Left Out: 31.439+/-0.376 $\chi^2$/NDF:2762.0/23

Right Out: 23.103+/-0.352 $\chi^2$/NDF: 11098.0/24

Left In: 31.895+/-0.378 $\chi^2$/NDF:2767.3/22

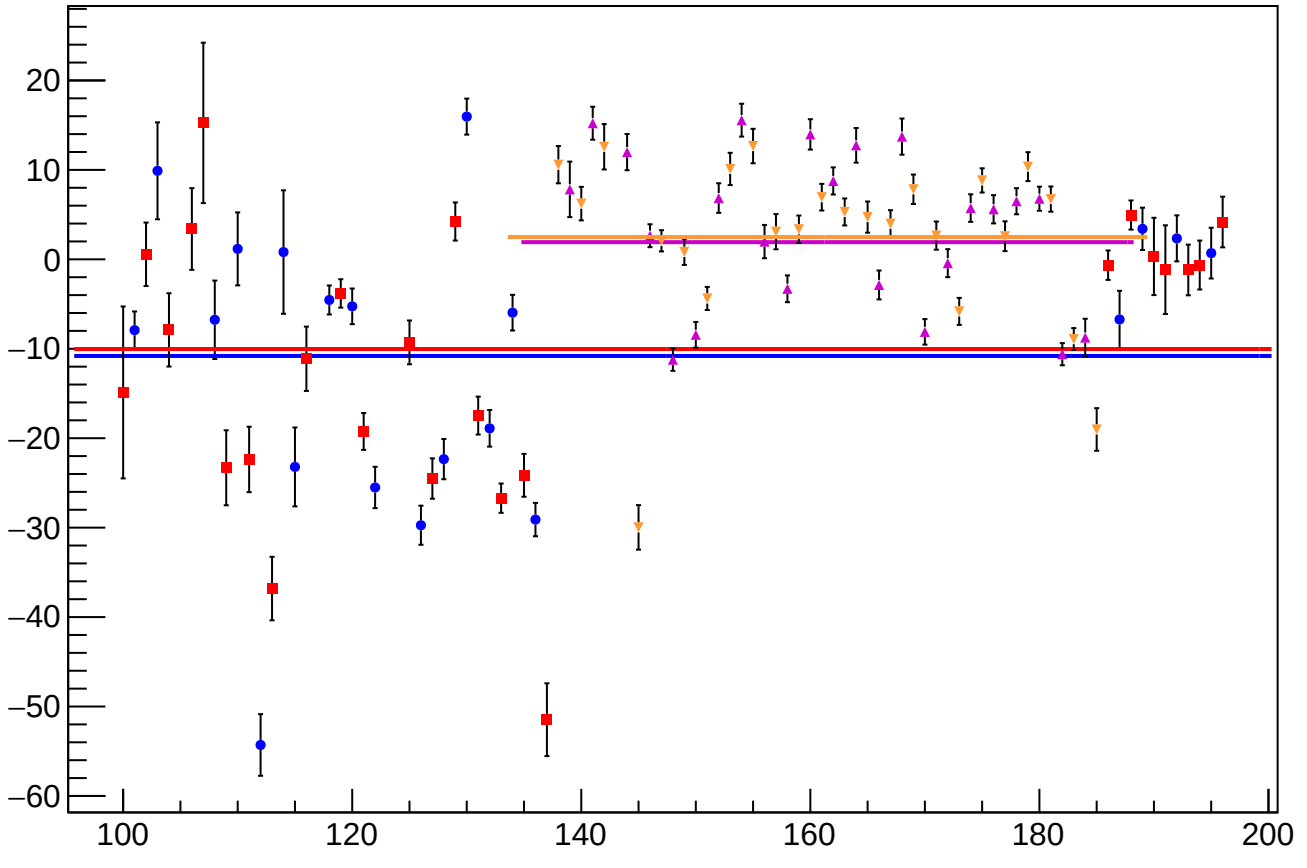
Left: 31.665+/-0.266 $\chi^2$/NDF: 5530.0/46

Right: 26.582+/-0.276 $\chi^2$/NDF: 19373.7/44

In: 32.014+/-0.288 $\chi^2$/NDF:10787.8/42

Out: 26.997+/-0.257 $\chi^2$/NDF:14122.5/48

All: 29.214+/-0.192 $\chi^2$/NDF: 25079.2/91




Right In: -10.804+/-0.548 $\chi^2$/NDF: 734.7/19

Left Out: 2.494+/-0.327 $\chi^2$/NDF:558.7/23

Right Out: -10.030+/-0.515 $\chi^2$/NDF: 653.1/24

Left In: 1.921+/-0.332 $\chi^2$/NDF:678.8/22

Left: 2.212+/-0.233 $\chi^2$/NDF: 1239.1/46

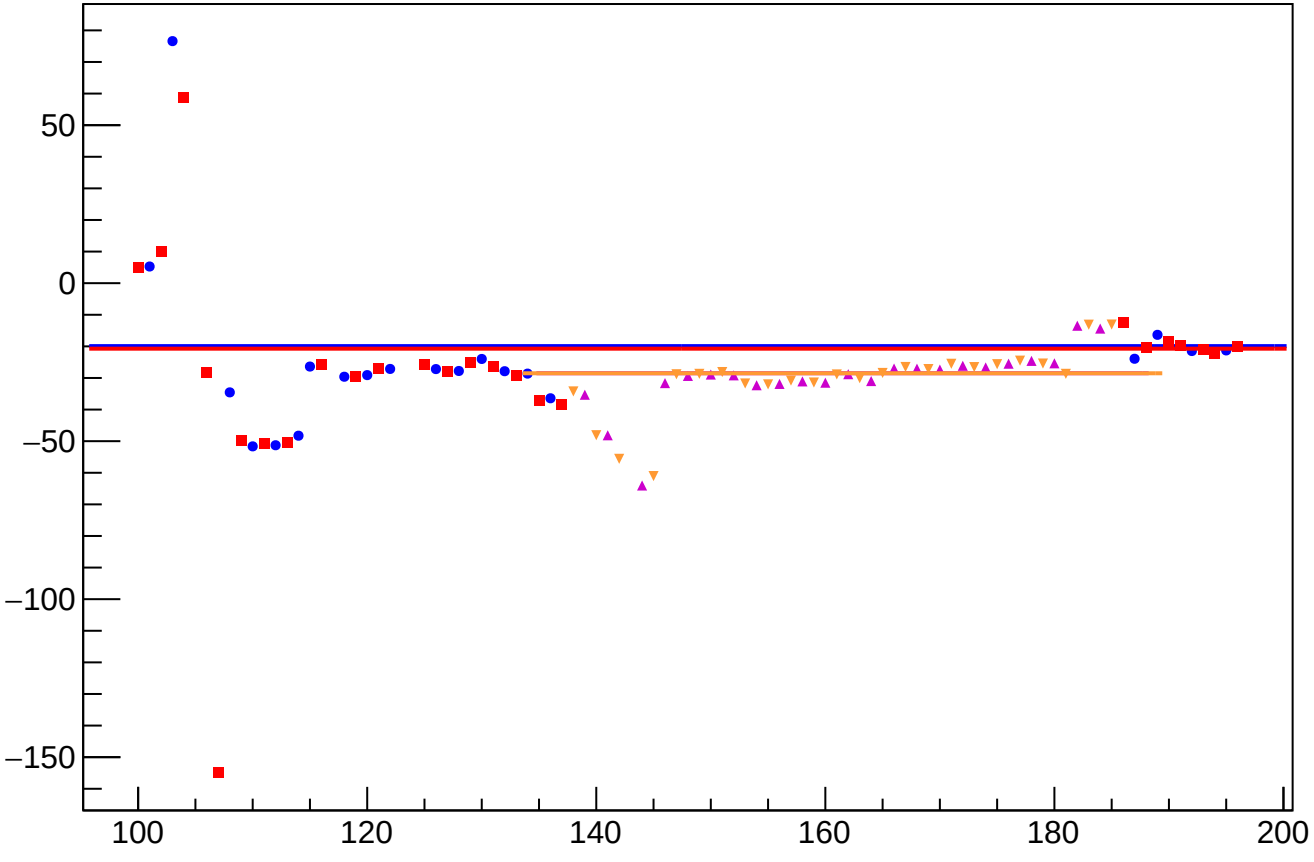
Right: -10.393+/-0.375 $\chi^2$/NDF: 1388.9/44

In: -1.497+/-0.284 $\chi^2$/NDF:1808.2/42

Out: -1.099+/-0.276 $\chi^2$/NDF:1633.3/48

All: -1.292+/-0.198 $\chi^2$/NDF: 3442.5/91

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -19.919+/-0.029 $\chi^2$/NDF: 649331.6/19

Left Out: -28.513+/-0.015 $\chi^2$/NDF:333774.3/23

Right Out: -20.728+/-0.027 $\chi^2$/NDF: 553166.5/24

Left In: -28.495+/-0.015 $\chi^2$/NDF:287757.4/22

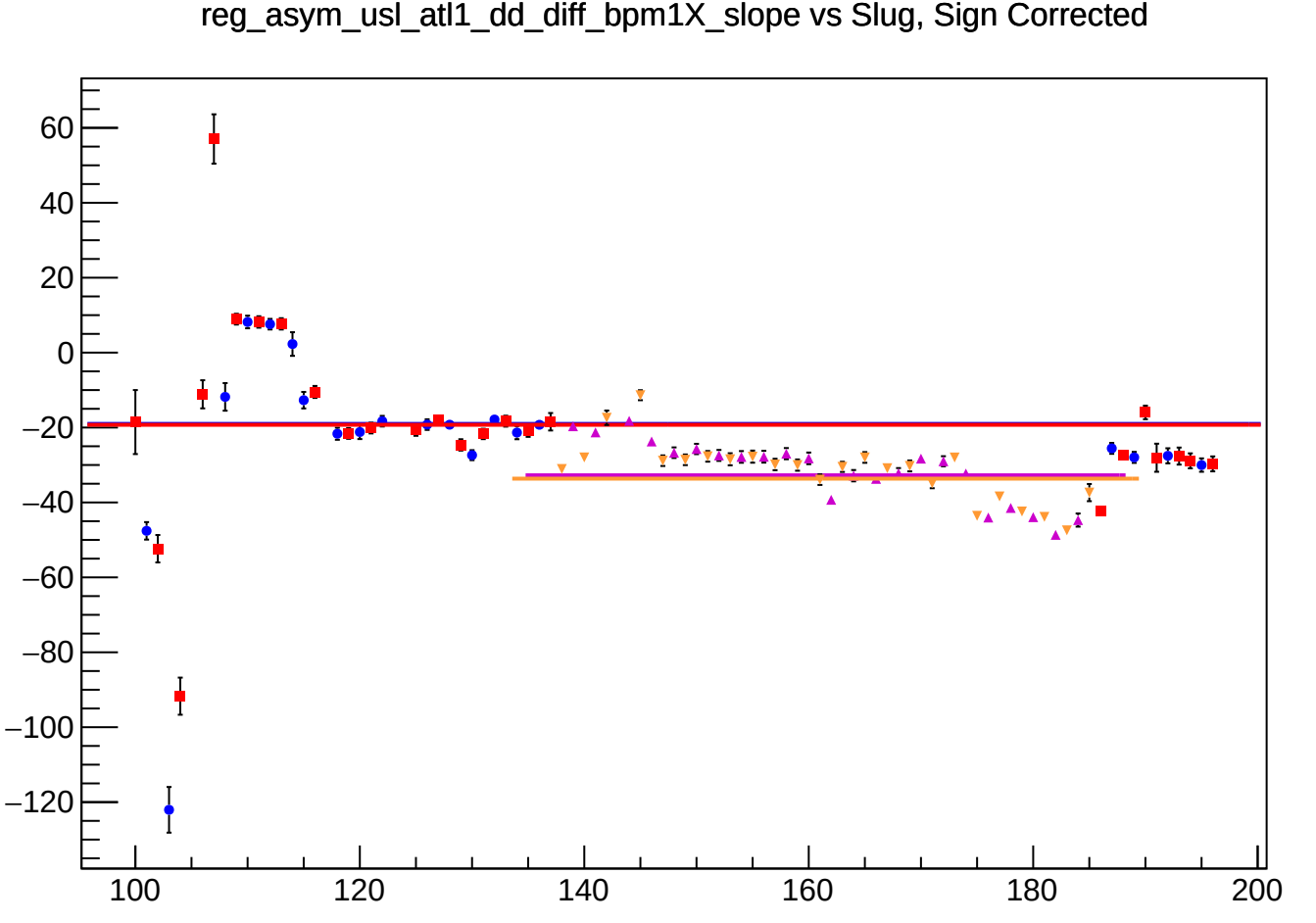
Left: -28.504+/-0.010 $\chi^2$/NDF: 621532.4/46

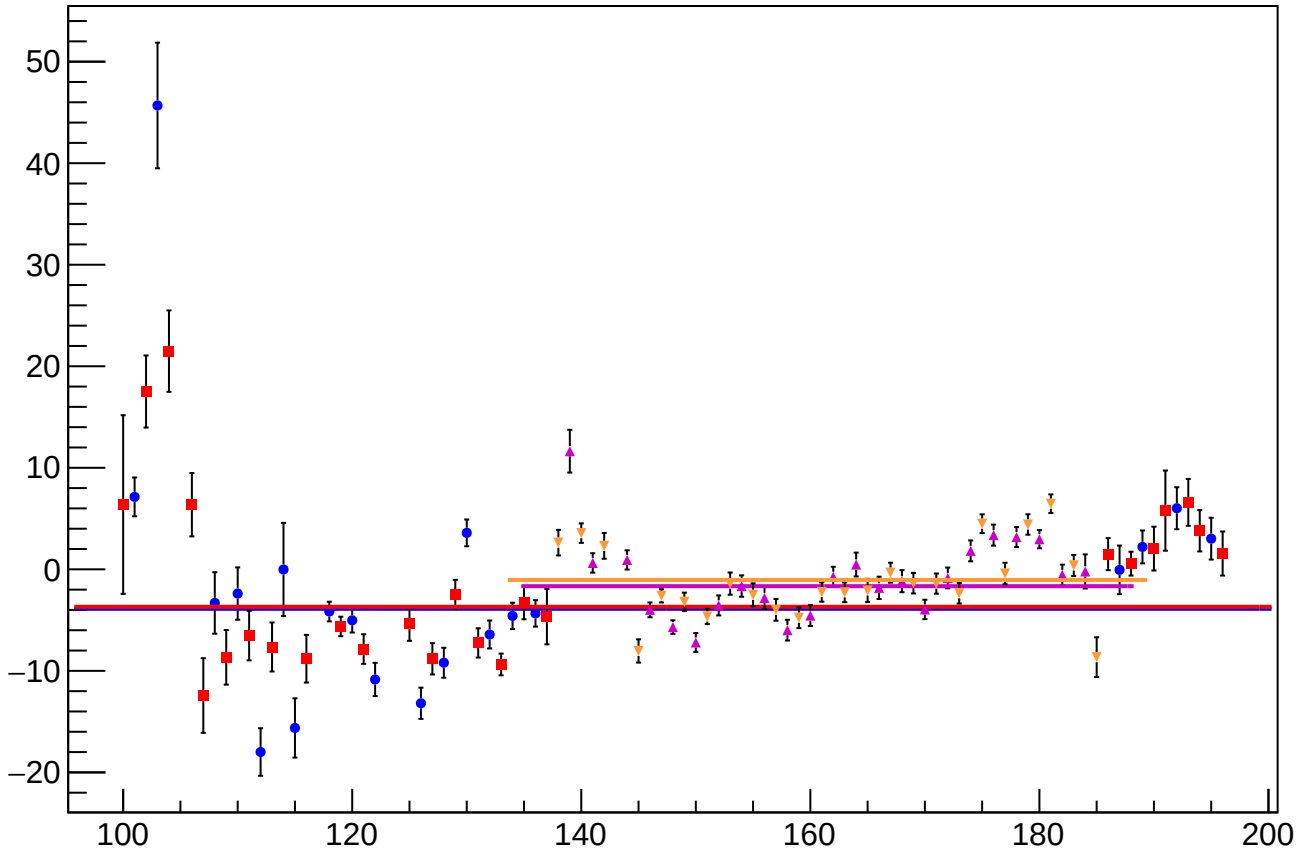
Right: -20.358+/-0.020 $\chi^2$/NDF: 1202919.1/44

In: -26.729+/-0.013 $\chi^2$/NDF:1006166.1/42

Out: -26.688+/-0.013 $\chi^2$/NDF:952123.9/48

All: -26.708+/-0.009 $\chi^2$/NDF: 1958295.0/91


reg_asym_usl_atl1_dd_diff_bpm1X_slope vs Slug, Sign Corrected
60
40
20
0
−20
−40
−60
−80
−100
−120
100
120
140
160
180
200
Right In: -19.030+/-0.362 χ²/NDF: 1267.6/19
Left Out: -33.643+/-0.265 χ²/NDF:1015.9/23
Right Out: -19.268+/-0.331 χ²/NDF: 2008.5/24
Left In: -32.750+/-0.269 χ²/NDF:1143.5/22
Left: -33.202+/-0.189 χ²/NDF: 2165.0/46
Right: -19.159+/-0.244 χ²/NDF: 3276.3/44
In: -27.882+/-0.216 χ²/NDF:3337.1/42
Out: -28.028+/-0.207 χ²/NDF:4172.7/48
All: -27.958+/-0.149 χ²/NDF: 7510.0/91




Right In: -3.888+/-0.372 $\chi^2$/NDF: 306.4/19

Left Out: -1.050+/-0.203 $\chi^2$/NDF:289.4/23

Right Out: -3.692+/-0.360 $\chi^2$/NDF: 240.1/24

Left In: -1.659+/-0.207 $\chi^2$/NDF:264.4/22

Left: -1.349+/-0.145 $\chi^2$/NDF: 558.2/46

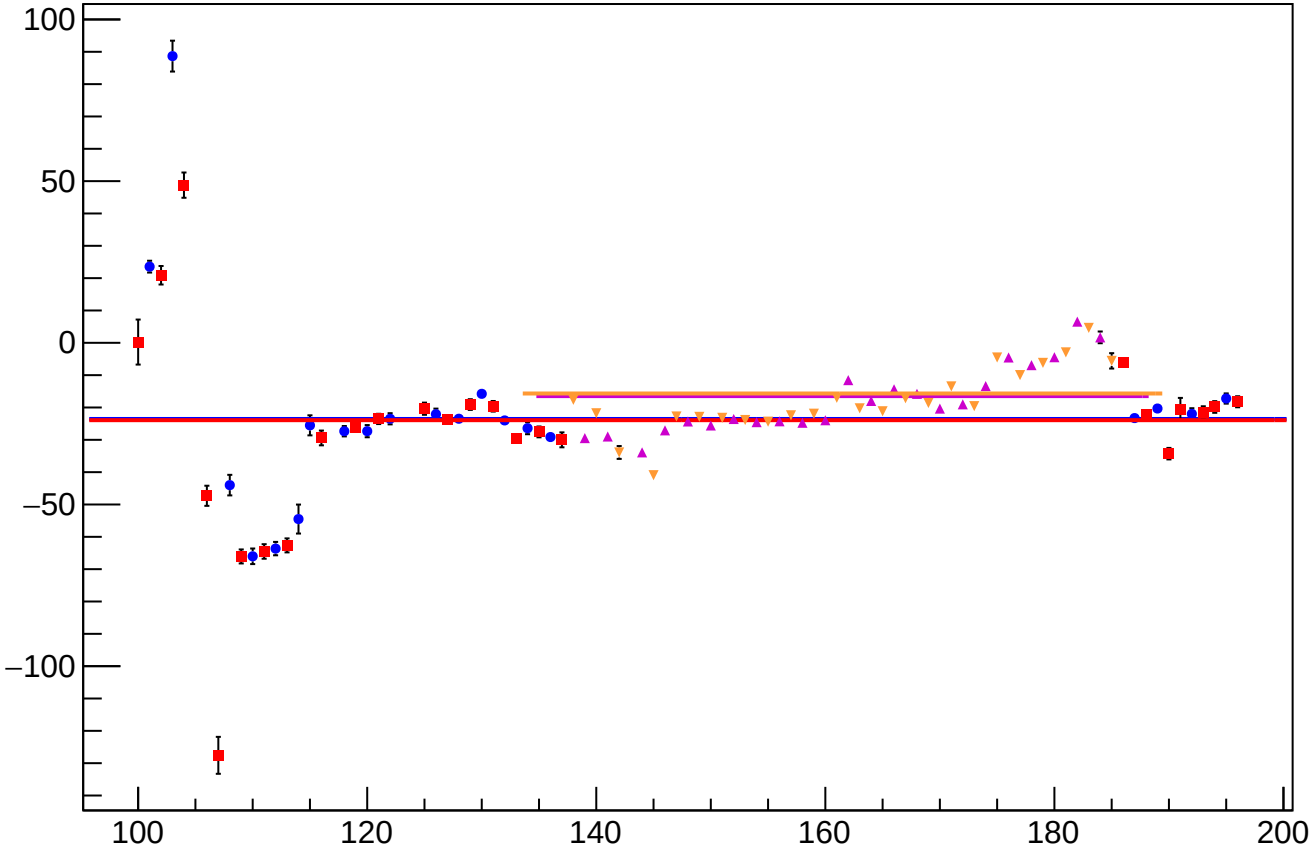
Right: -3.787+/-0.258 $\chi^2$/NDF: 546.7/44

In: -2.185+/-0.181 $\chi^2$/NDF:598.3/42

Out: -1.688+/-0.177 $\chi^2$/NDF:570.5/48

All: -1.931+/-0.126 $\chi^2$/NDF: 1172.6/91

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -23.554+/-0.381 $\chi^2$/NDF: 2080.9/19

Left Out: -15.674+/-0.263 $\chi^2$/NDF:1520.8/23

Right Out: -23.922+/-0.335 $\chi^2$/NDF: 2443.6/24

Left In: -16.480+/-0.266 $\chi^2$/NDF:1697.7/22

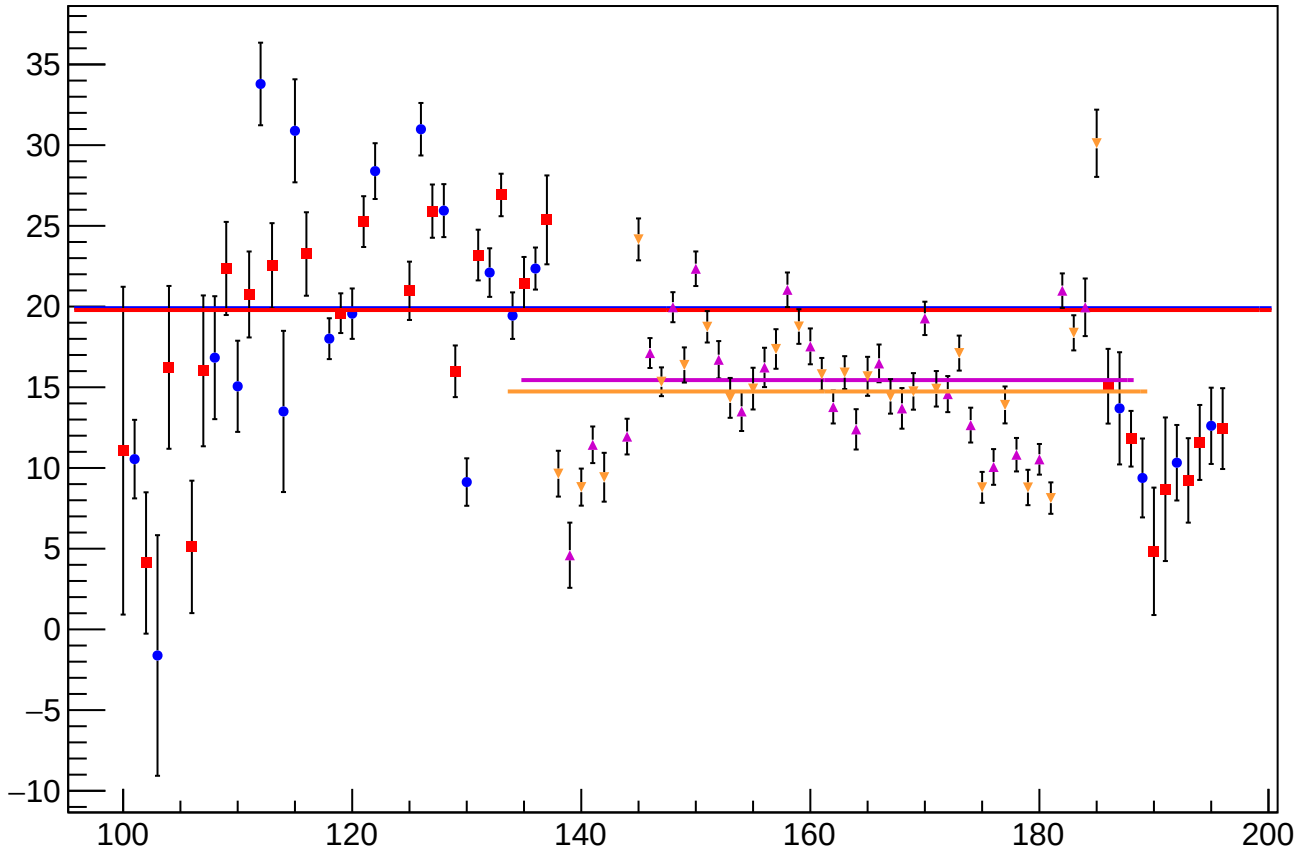
Left: -16.072+/-0.187 $\chi^2$/NDF: 3223.1/46

Right: -23.762+/-0.252 $\chi^2$/NDF: 4525.1/44

In: -18.794+/-0.218 $\chi^2$/NDF:4010.1/42

Out: -18.824+/-0.207 $\chi^2$/NDF:4339.9/48

All: -18.810+/-0.150 $\chi^2$/NDF: 8350.0/91




Right In: 19.900+/-0.431 $\chi^2$/NDF: 263.5/19

Left Out: 14.740+/-0.229 $\chi^2$/NDF:331.0/23

Right Out: 19.785+/-0.426 $\chi^2$/NDF: 185.9/24

Left In: 15.444+/-0.233 $\chi^2$/NDF:290.4/22

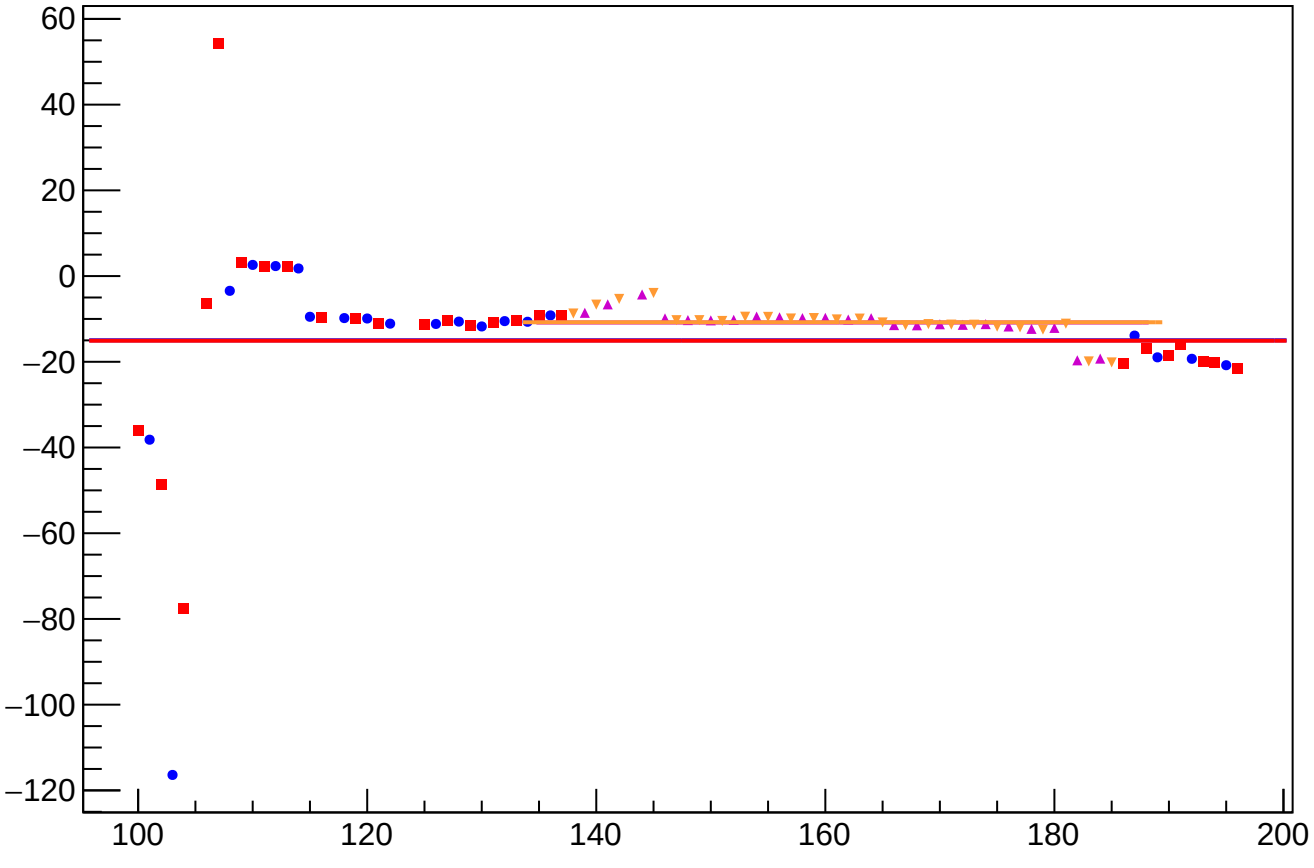
Left: 15.087+/-0.163 $\chi^2$/NDF: 626.0/46

Right: 19.842+/-0.303 $\chi^2$/NDF: 449.5/44

In: 16.451+/-0.205 $\chi^2$/NDF:636.6/42

Out: 15.872+/-0.202 $\chi^2$/NDF:625.4/48

All: 16.158+/-0.144 $\chi^2$/NDF: 1266.0/91




Right In: -14.983+/-0.024 $\chi^2$/NDF: 361363.4/19

Left Out: -10.778+/-0.010 $\chi^2$/NDF:84755.9/23

Right Out: -15.082+/-0.023 $\chi^2$/NDF: 345146.9/24

Left In: -10.834+/-0.010 $\chi^2$/NDF:74113.9/22

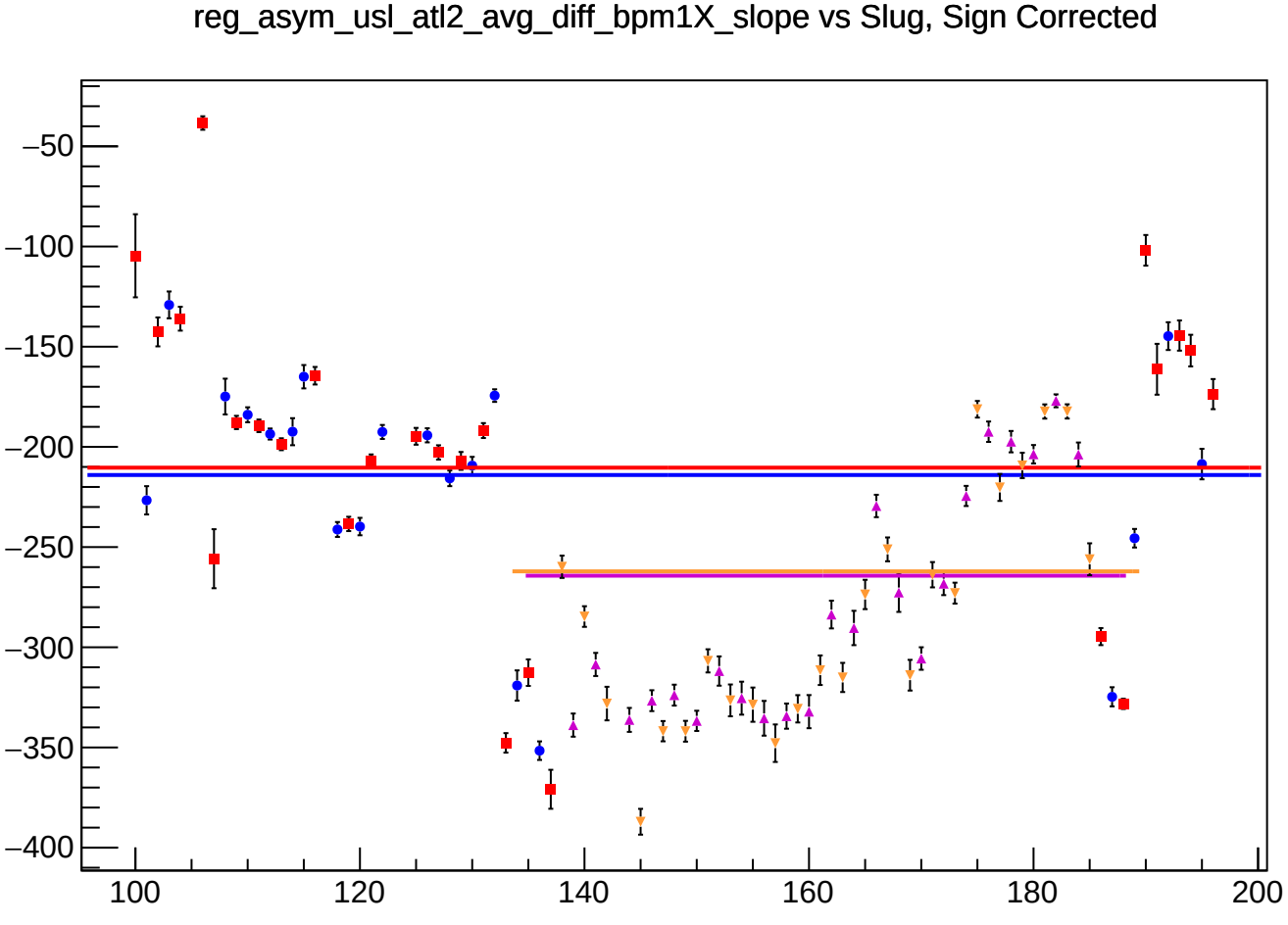
Left: -10.806+/-0.007 $\chi^2$/NDF: 158884.9/46

Right: -15.035+/-0.017 $\chi^2$/NDF: 706519.3/44

In: -11.487+/-0.009 $\chi^2$/NDF:460949.6/42

Out: -11.498+/-0.009 $\chi^2$/NDF:459225.6/48

All: -11.493+/-0.007 $\chi^2$/NDF: 920175.9/91




Right In: -214.032+/-0.996 $\chi^2$/NDF: 2461.6/19

Left Out: -262.110+/-1.179 $\chi^2$/NDF:2964.6/23

Right Out: -210.374+/-0.882 $\chi^2$/NDF: 7415.0/24

Left In: -264.272+/-1.186 $\chi^2$/NDF:2741.9/22

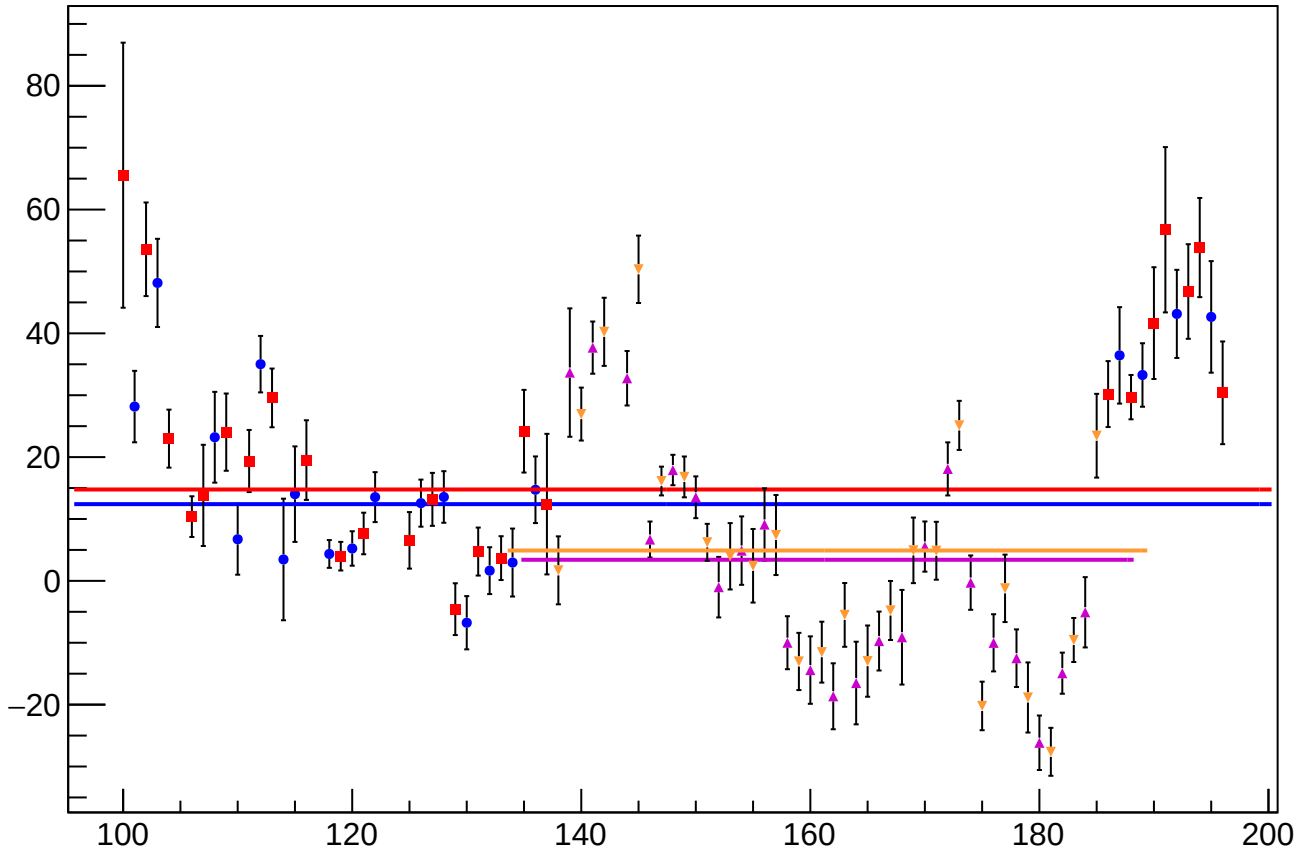
Left: -263.185+/-0.836 $\chi^2$/NDF: 5708.1/46

Right: -211.982+/-0.660 $\chi^2$/NDF: 9884.2/44

In: -234.823+/-0.763 $\chi^2$/NDF:6256.0/42

Out: -228.933+/-0.706 $\chi^2$/NDF:11613.7/48

All: -231.652+/-0.518 $\chi^2$/NDF: 17901.8/91




Right In: 12.399+/-1.017 $\chi^2$/NDF: 167.9/19

Left Out: 4.909+/-0.886 $\chi^2$/NDF:398.9/23

Right Out: 14.768+/-0.955 $\chi^2$/NDF: 208.9/24

Left In: 3.409+/-0.901 $\chi^2$/NDF:333.3/22

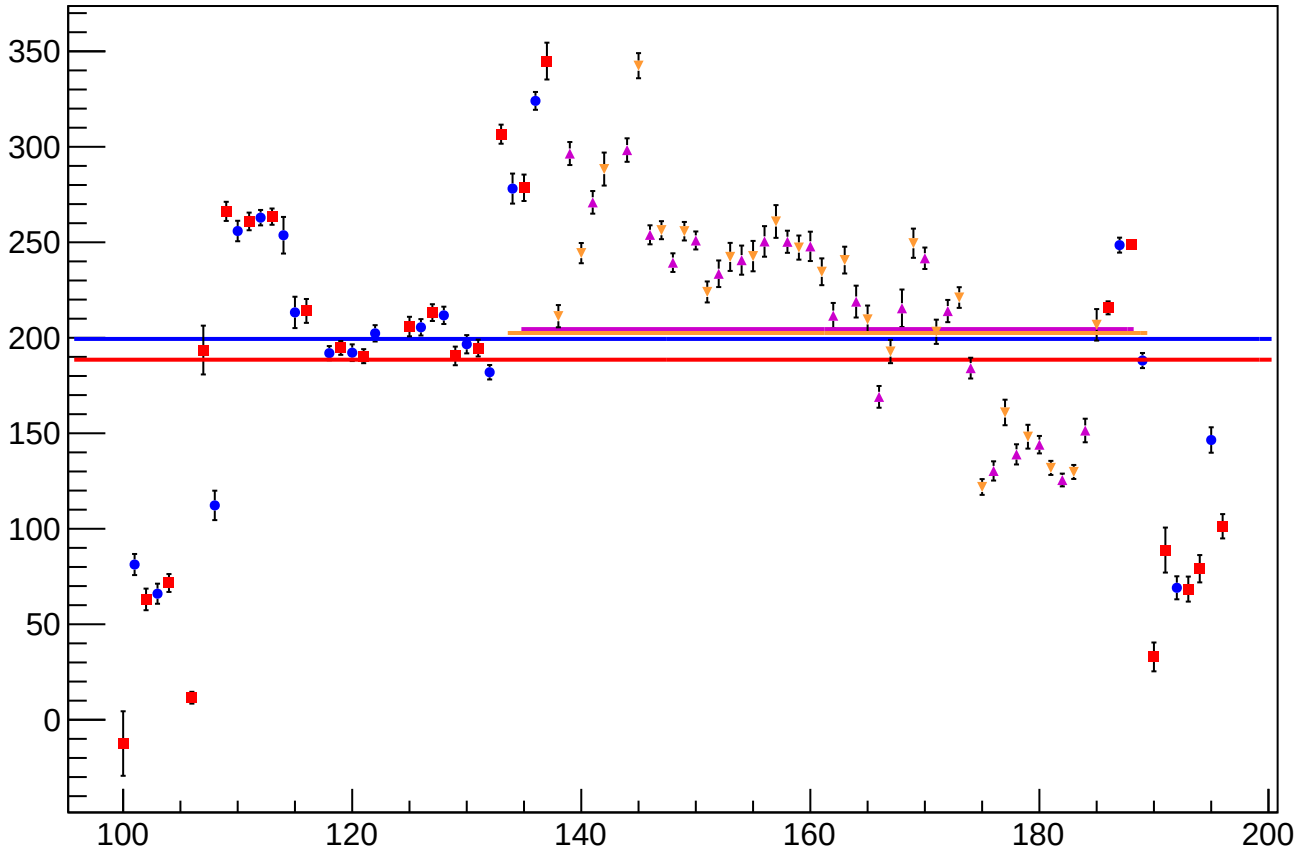
Left: 4.171+/-0.632 $\chi^2$/NDF: 733.7/46

Right: 13.657+/-0.696 $\chi^2$/NDF: 379.7/44

In: 7.362+/-0.674 $\chi^2$/NDF:545.0/42

Out: 9.471+/-0.650 $\chi^2$/NDF:665.1/48

All: 8.456+/-0.468 $\chi^2$/NDF: 1215.2/91




Right In: 199.401+/-1.088 $\chi^2$/NDF: 3167.7/19

Left Out: 202.511+/-1.173 $\chi^2$/NDF:2393.5/23

Right Out: 188.527+/-0.921 $\chi^2$/NDF: 8564.0/24

Left In: 204.560+/-1.177 $\chi^2$/NDF:2285.7/22

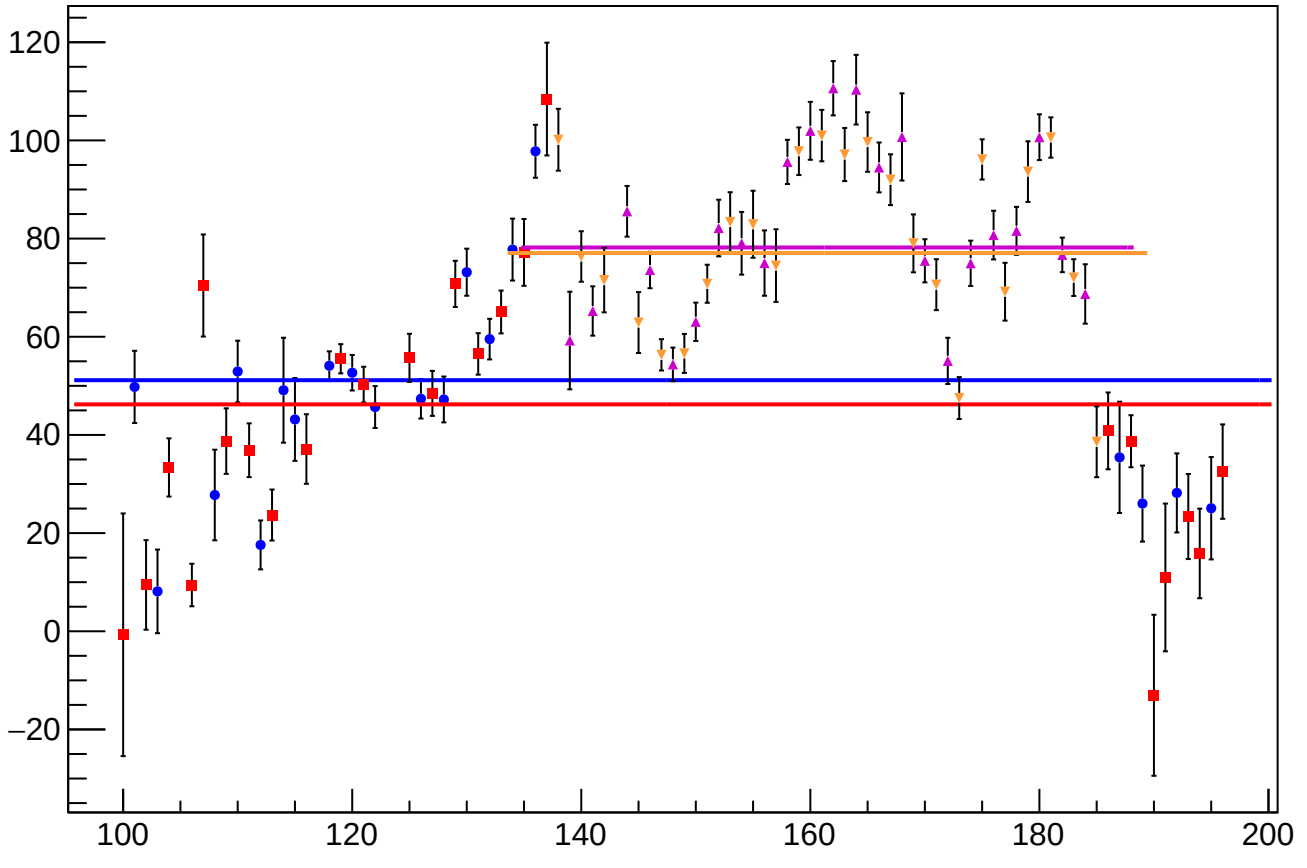
Left: 203.532+/-0.831 $\chi^2$/NDF: 4680.7/46

Right: 193.067+/-0.703 $\chi^2$/NDF: 11789.9/44

In: 201.778+/-0.799 $\chi^2$/NDF:5463.8/42

Out: 193.862+/-0.724 $\chi^2$/NDF:11045.4/48

All: 197.433+/-0.537 $\chi^2$/NDF: 16563.1/91




Right In: 51.149+/-1.197 $\chi^2$/NDF: 227.1/19

Left Out: 77.061+/-1.015 $\chi^2$/NDF:311.3/23

Right Out: 46.226+/-1.136 $\chi^2$/NDF: 284.6/24

Left In: 78.189+/-1.026 $\chi^2$/NDF:232.5/22

Left: 77.619+/-0.721 $\chi^2$/NDF: 544.4/46

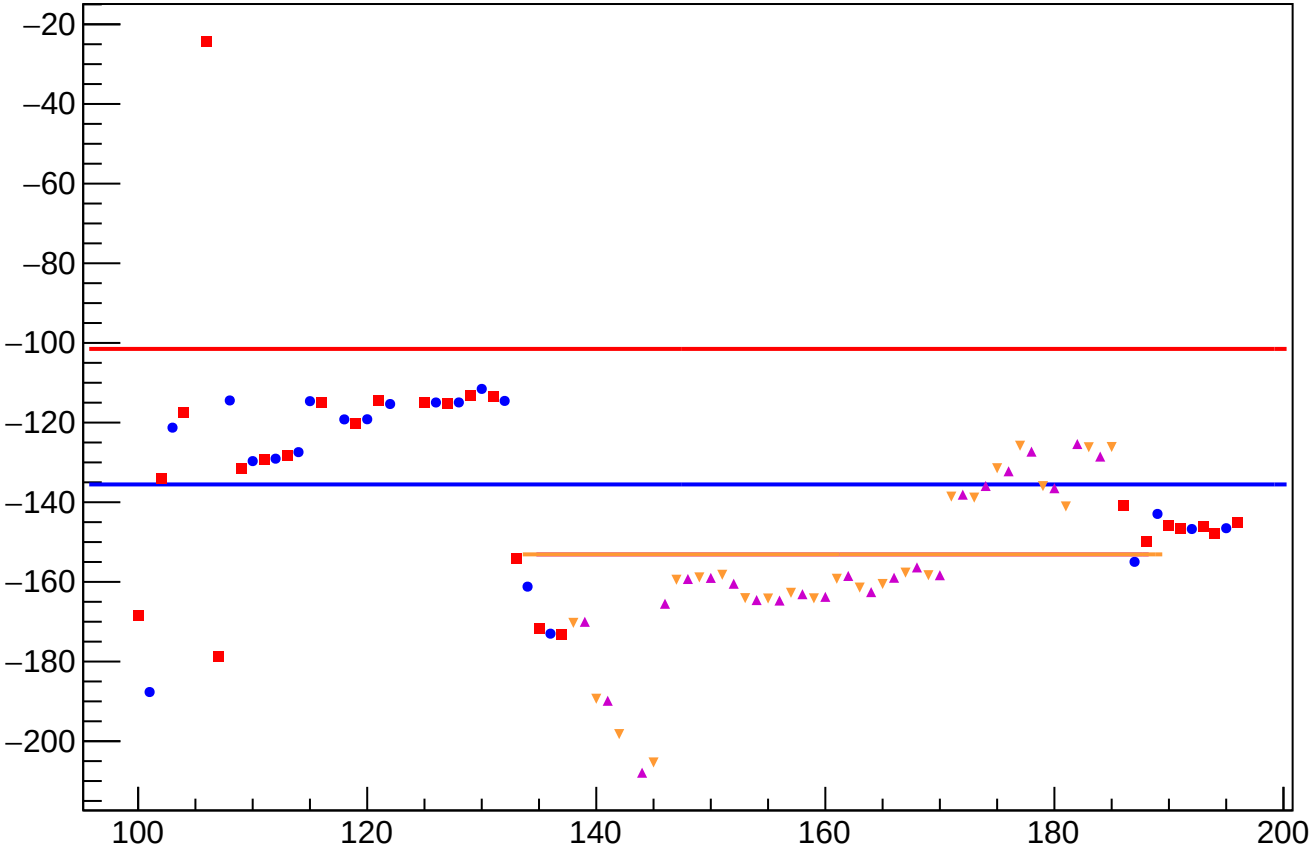
Right: 48.559+/-0.824 $\chi^2$/NDF: 520.7/44

In: 66.743+/-0.779 $\chi^2$/NDF:753.9/42

Out: 63.374+/-0.757 $\chi^2$/NDF:1005.4/48

All: 65.011+/-0.543 $\chi^2$/NDF: 1768.9/91

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -135.530+/-0.073 $\chi^2$/NDF: 99222.8/19

Left Out: -153.090+/-0.047 $\chi^2$/NDF:177552.0/23

Right Out: -101.502+/-0.057 $\chi^2$/NDF: 904005.5/24

Left In: -153.103+/-0.047 $\chi^2$/NDF:166644.2/22

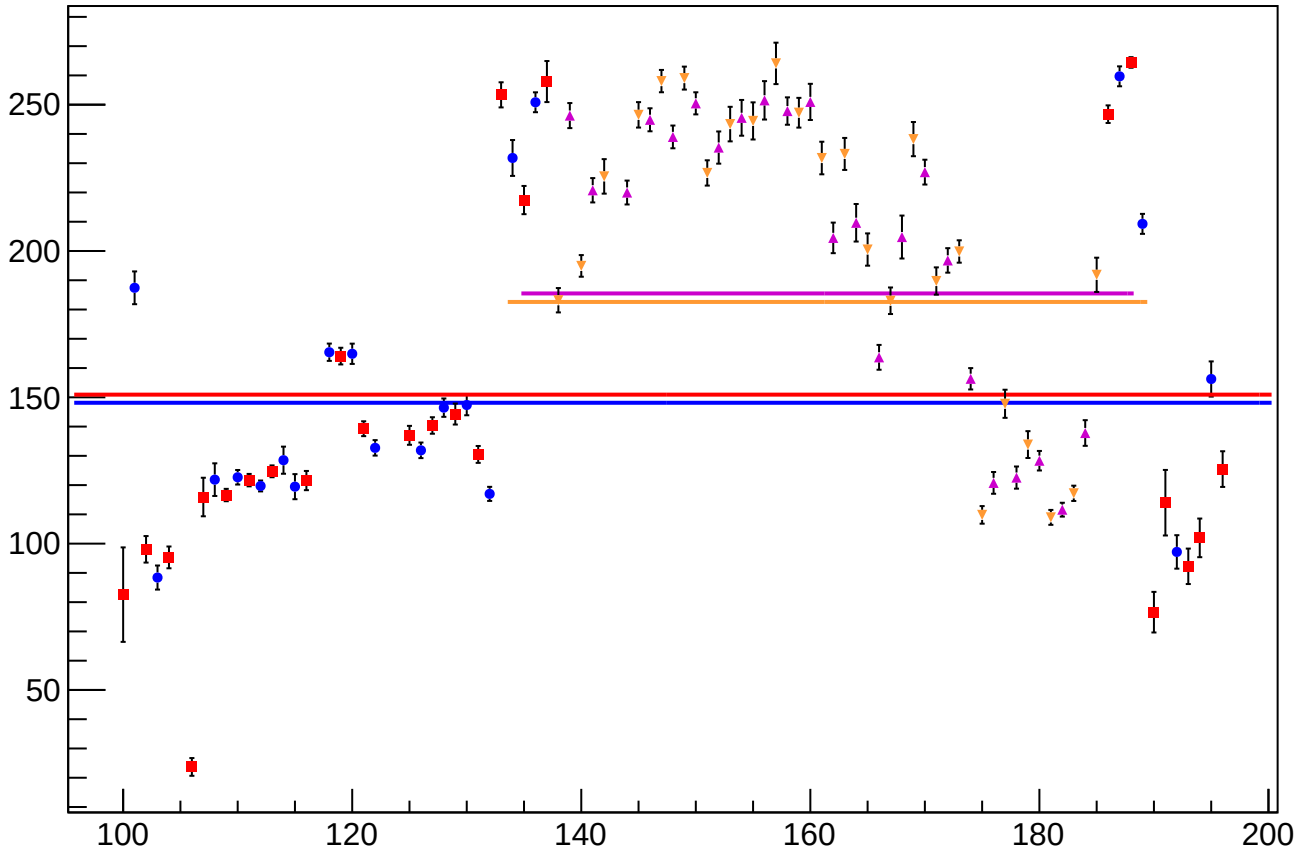
Left: -153.097+/-0.033 $\chi^2$/NDF: 344196.2/46

Right: -114.389+/-0.045 $\chi^2$/NDF: 1138990.9/44

In: -147.990+/-0.039 $\chi^2$/NDF:307183.8/42

Out: -132.182+/-0.036 $\chi^2$/NDF:1571546.2/48

All: -139.440+/-0.027 $\chi^2$/NDF: 1966376.3/91




Right In: 148.136+/-0.734 $\chi^2$/NDF: 3552.1/19

Left Out: 182.591+/-0.866 $\chi^2$/NDF:4152.3/23

Right Out: 150.915+/-0.649 $\chi^2$/NDF: 9228.6/24

Left In: 185.497+/-0.872 $\chi^2$/NDF:3822.2/22

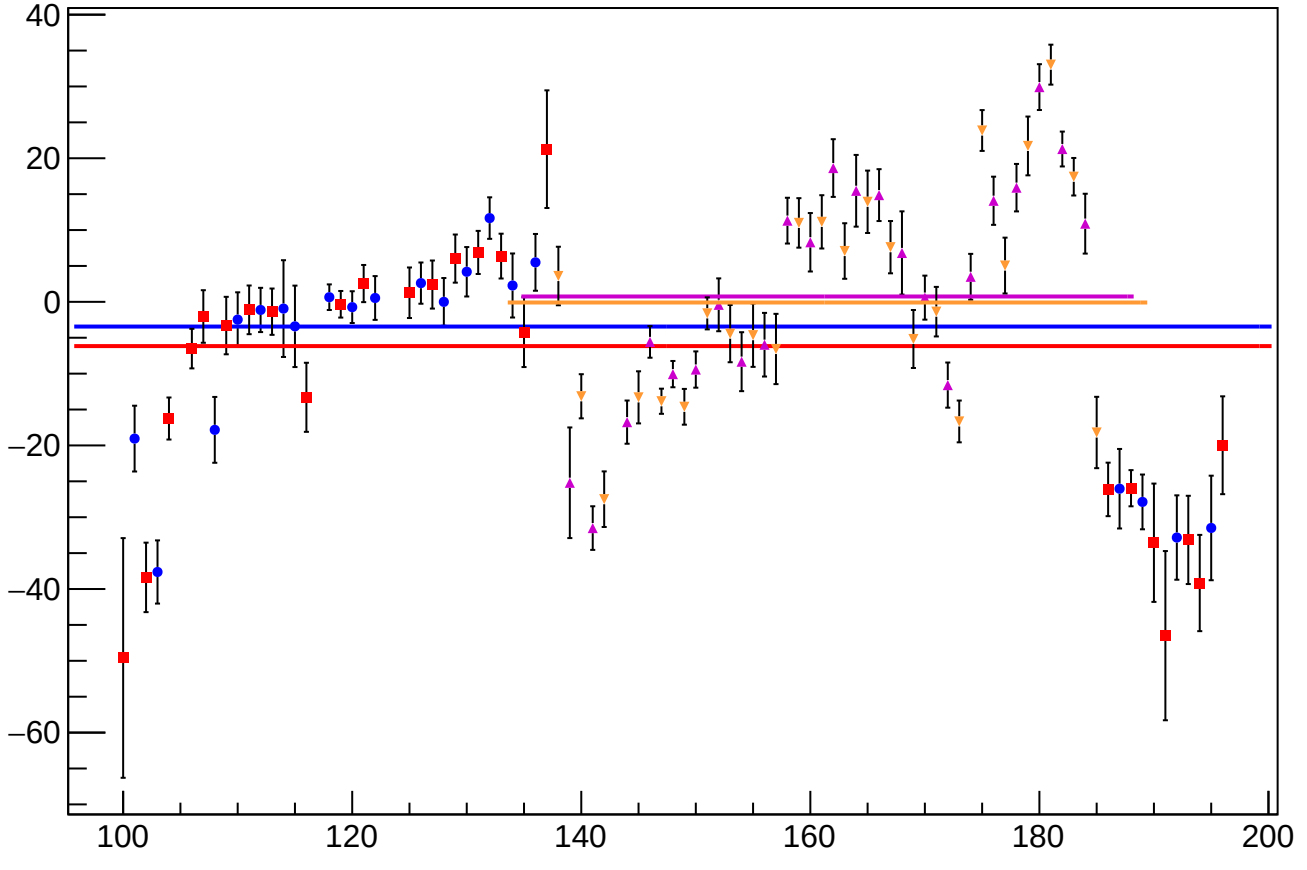
Left: 184.033+/-0.615 $\chi^2$/NDF: 7980.1/46

Right: 149.697+/-0.486 $\chi^2$/NDF: 12788.8/44

In: 163.628+/-0.562 $\chi^2$/NDF:8447.9/42

Out: 162.301+/-0.519 $\chi^2$/NDF:14238.1/48

All: 162.912+/-0.381 $\chi^2$/NDF: 22688.9/91




Right In: -3.442+/-0.772 $\chi^2$/NDF: 233.0/19

Left Out: -0.092+/-0.655 $\chi^2$/NDF:555.3/23

Right Out: -6.164+/-0.716 $\chi^2$/NDF: 324.0/24

Left In: 0.747+/-0.665 $\chi^2$/NDF:497.8/22

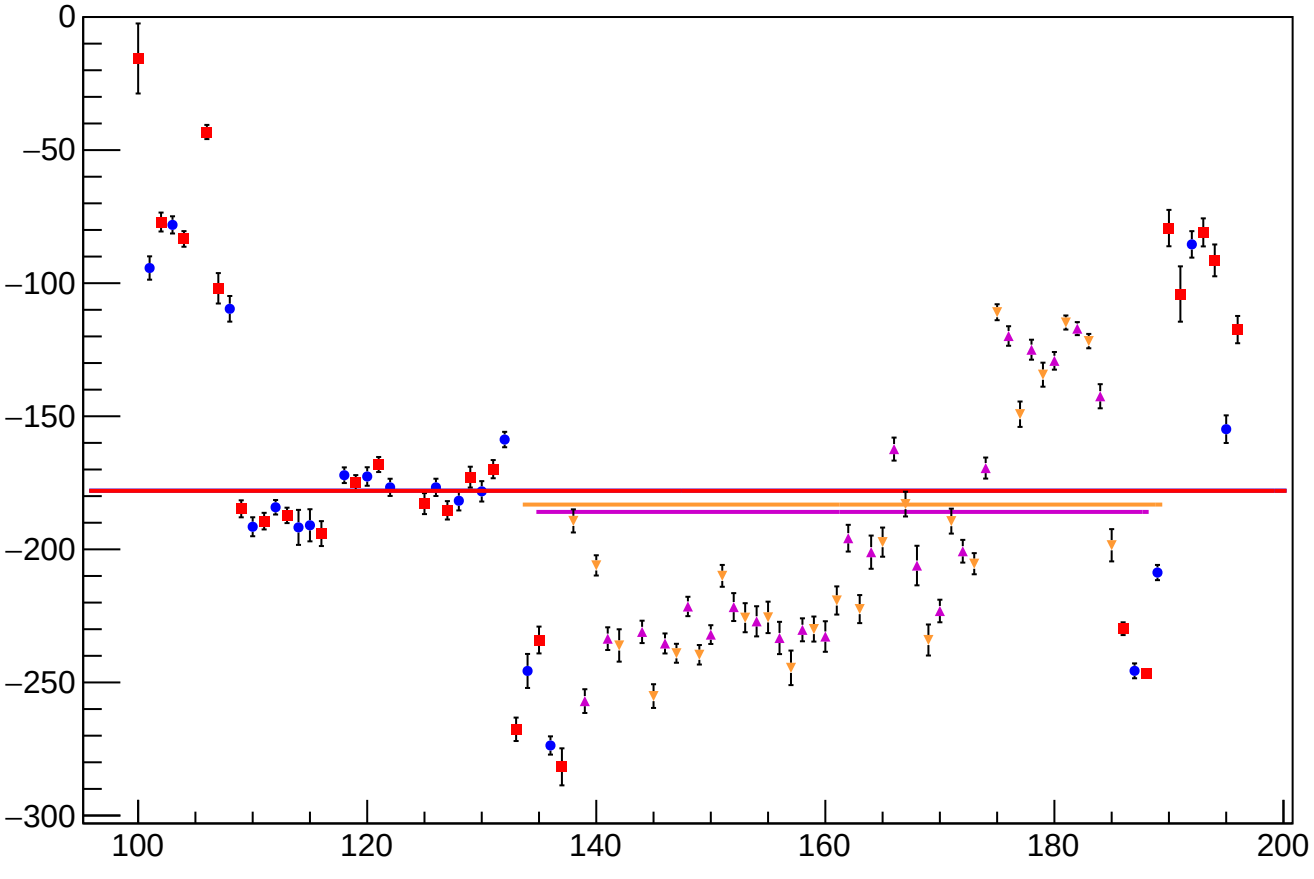
Left: 0.320+/-0.467 $\chi^2$/NDF: 1053.9/46

Right: -4.904+/-0.525 $\chi^2$/NDF: 563.7/44

In: -1.039+/-0.504 $\chi^2$/NDF:747.6/42

Out: -2.857+/-0.483 $\chi^2$/NDF:918.5/48

All: -1.986+/-0.349 $\chi^2$/NDF: 1672.9/91




Right In: -177.932+/-0.805 $\chi^2$/NDF: 3560.2/19

Left Out: -183.175+/-0.862 $\chi^2$/NDF:3361.2/23

Right Out: -178.022+/-0.679 $\chi^2$/NDF: 9191.9/24

Left In: -185.936+/-0.867 $\chi^2$/NDF:3181.6/22

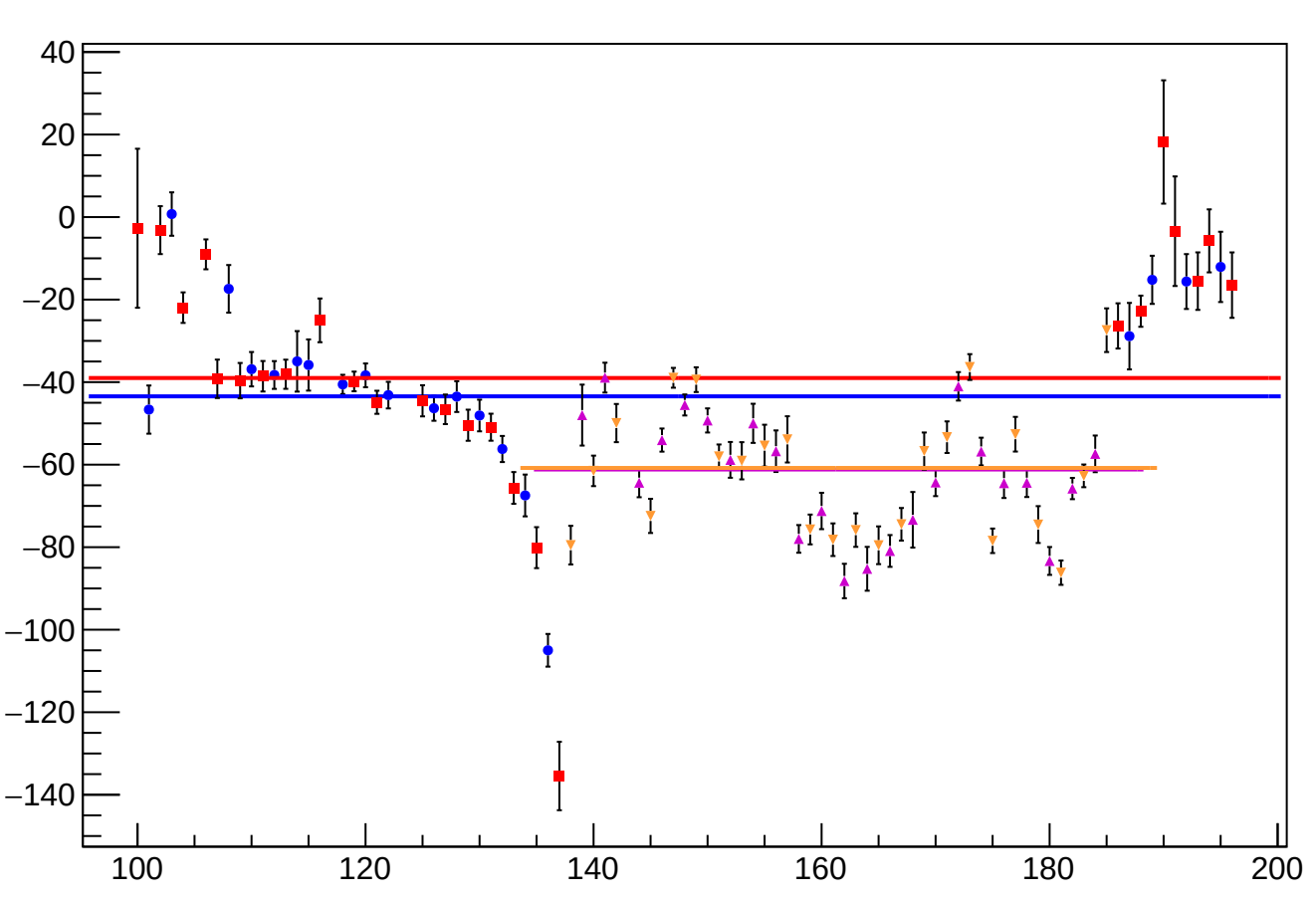
Left: -184.548+/-0.611 $\chi^2$/NDF: 6547.8/46

Right: -177.985+/-0.519 $\chi^2$/NDF: 12752.1/44

In: -181.637+/-0.590 $\chi^2$/NDF:6787.5/42

Out: -179.993+/-0.533 $\chi^2$/NDF:12575.1/48

All: -180.732+/-0.396 $\chi^2$/NDF: 19366.9/91




Right In: -43.444+/-0.906 $\chi^2$/NDF: 443.7/19

Left Out: -60.801+/-0.749 $\chi^2$/NDF:474.0/23

Right Out: -39.000+/-0.852 $\chi^2$/NDF: 507.8/24

Left In: -61.172+/-0.757 $\chi^2$/NDF:316.9/22

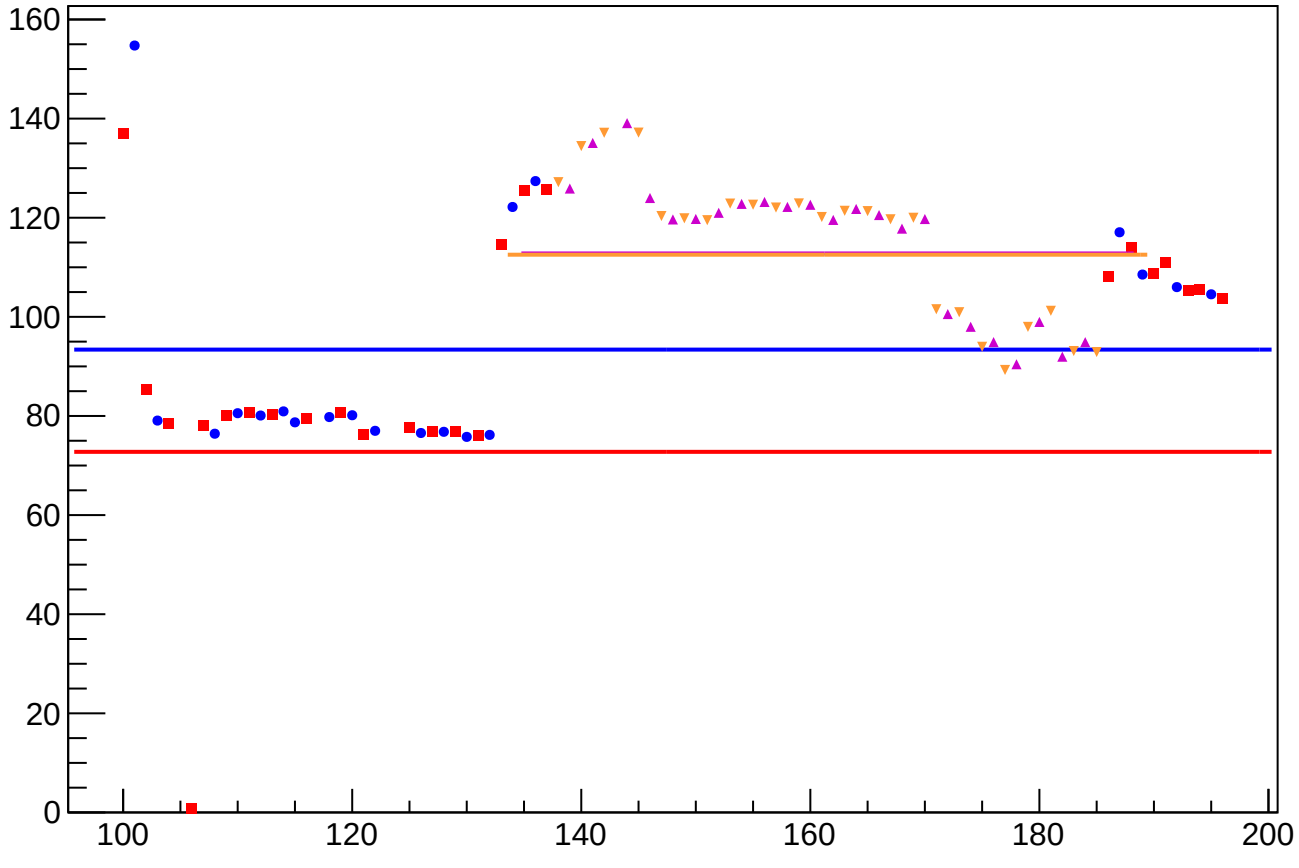
Left: -60.984+/-0.532 $\chi^2$/NDF: 791.1/46

Right: -41.087+/-0.621 $\chi^2$/NDF: 964.3/44

In: -53.884+/-0.581 $\chi^2$/NDF:986.2/42

Out: -51.302+/-0.563 $\chi^2$/NDF:1351.1/48

All: -52.552+/-0.404 $\chi^2$/NDF: 2347.5/91




Right In: 93.391+/-0.054 $\chi^2$/NDF: 174653.7/19

Left Out: 112.539+/-0.035 $\chi^2$/NDF:174512.4/23

Right Out: 72.762+/-0.044 $\chi^2$/NDF: 820003.7/24

Left In: 112.795+/-0.034 $\chi^2$/NDF:171662.8/22

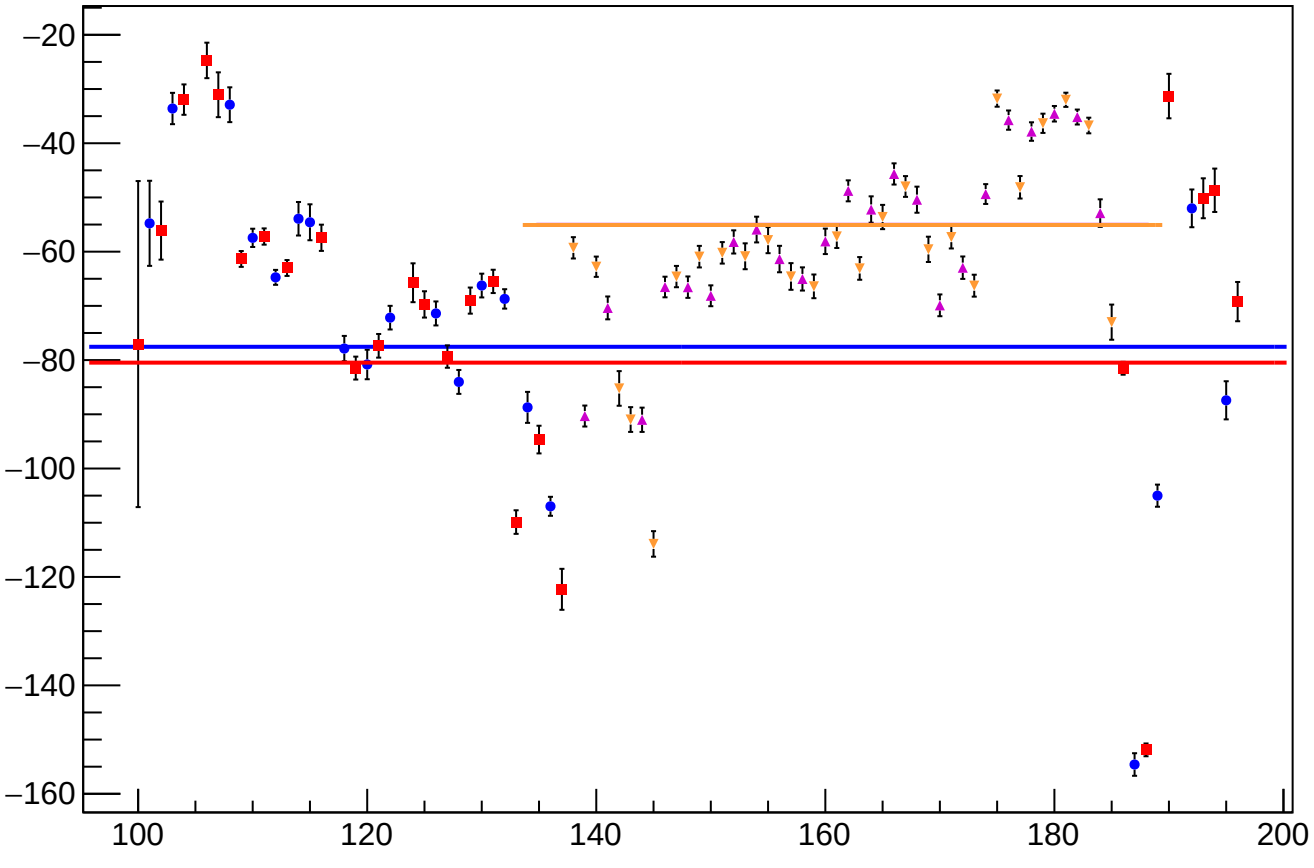
Left: 112.667+/-0.024 $\chi^2$/NDF: 346202.6/46

Right: 81.109+/-0.034 $\chi^2$/NDF: 1083003.4/44

In: 107.119+/-0.029 $\chi^2$/NDF:439202.8/42

Out: 97.414+/-0.027 $\chi^2$/NDF:1497575.3/48

All: 101.967+/-0.020 $\chi^2$/NDF: 1996395.8/91




Right In: -77.547+/-0.510 $\chi^2$/NDF: 2752.8/19

Left Out: -55.077+/-0.401 $\chi^2$/NDF:2002.8/24

Right Out: -80.471+/-0.434 $\chi^2$/NDF: 5794.4/24

Left In: -55.050+/-0.410 $\chi^2$/NDF:1541.8/22

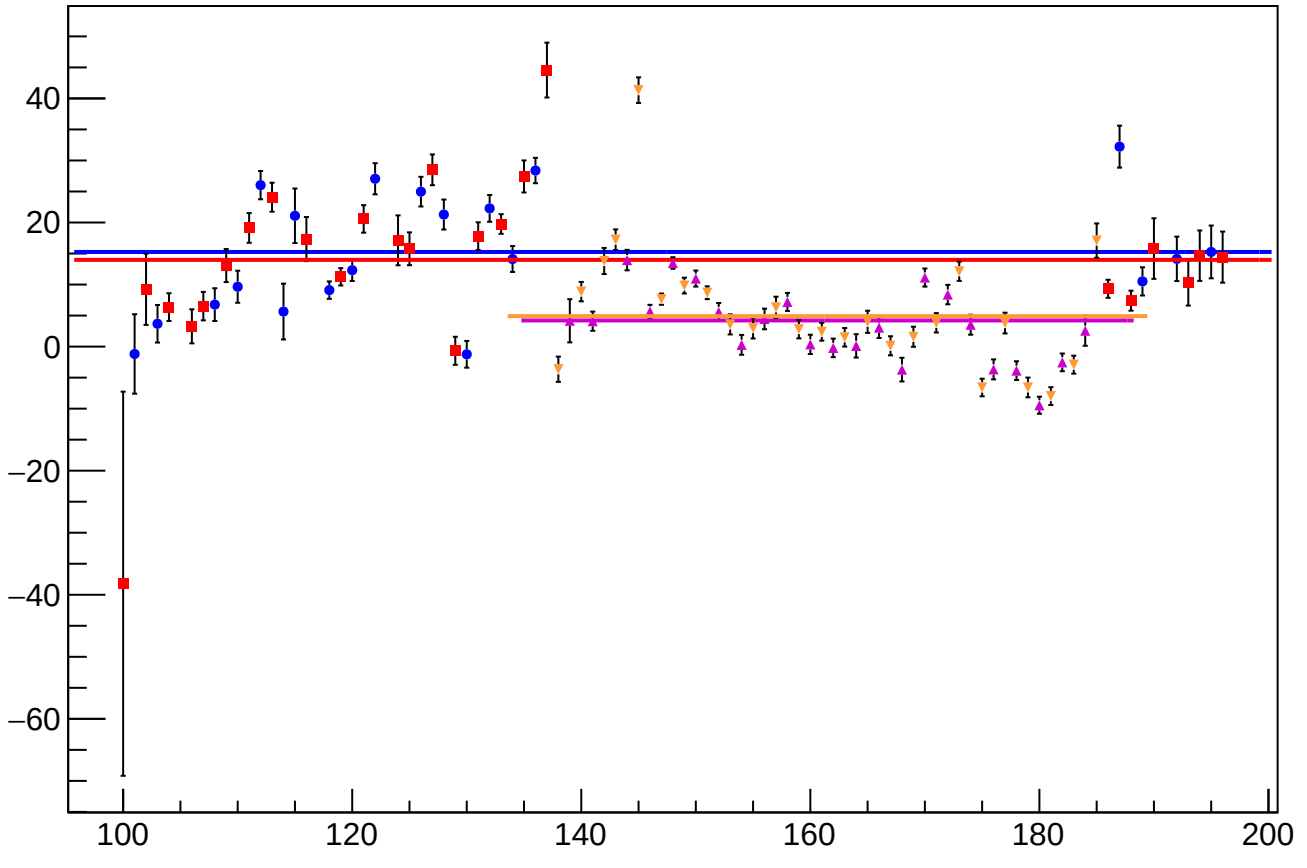
Left: -55.064+/-0.287 $\chi^2$/NDF: 3544.6/47

Right: -79.242+/-0.330 $\chi^2$/NDF: 8566.2/44

In: -63.899+/-0.320 $\chi^2$/NDF:5476.2/42

Out: -66.757+/-0.294 $\chi^2$/NDF:9645.9/49

All: -65.446+/-0.217 $\chi^2$/NDF: 15165.3/92




Right In: 15.253+/-0.544 $\chi^2$/NDF: 272.1/19

Left Out: 4.910+/-0.301 $\chi^2$/NDF:741.5/24

Right Out: 13.982+/-0.482 $\chi^2$/NDF: 274.6/24

Left In: 4.215+/-0.312 $\chi^2$/NDF:415.1/22

Left: 4.575+/-0.217 $\chi^2$/NDF: 1159.1/47

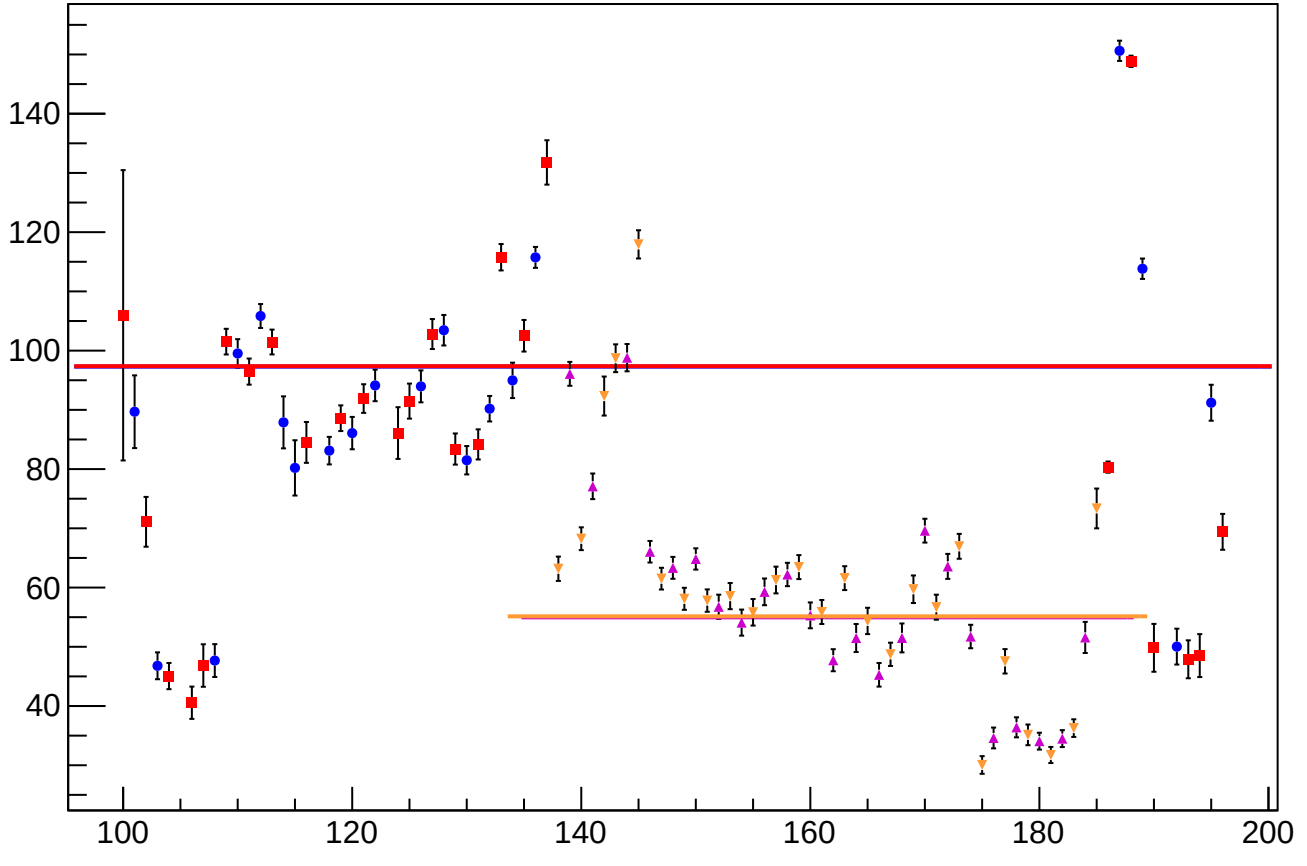
Right: 14.542+/-0.361 $\chi^2$/NDF: 549.8/44

In: 6.951+/-0.271 $\chi^2$/NDF:996.7/42

Out: 7.457+/-0.256 $\chi^2$/NDF:1270.5/49

All: 7.219+/-0.186 $\chi^2$/NDF: 2269.1/92

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 97.301+/-0.548 $\chi^2$/NDF: 2393.4/19

Left Out: 55.142+/-0.397 $\chi^2$/NDF:2242.4/24

Right Out: 97.371+/-0.439 $\chi^2$/NDF: 5413.2/24

Left In: 54.972+/-0.406 $\chi^2$/NDF:1780.5/22

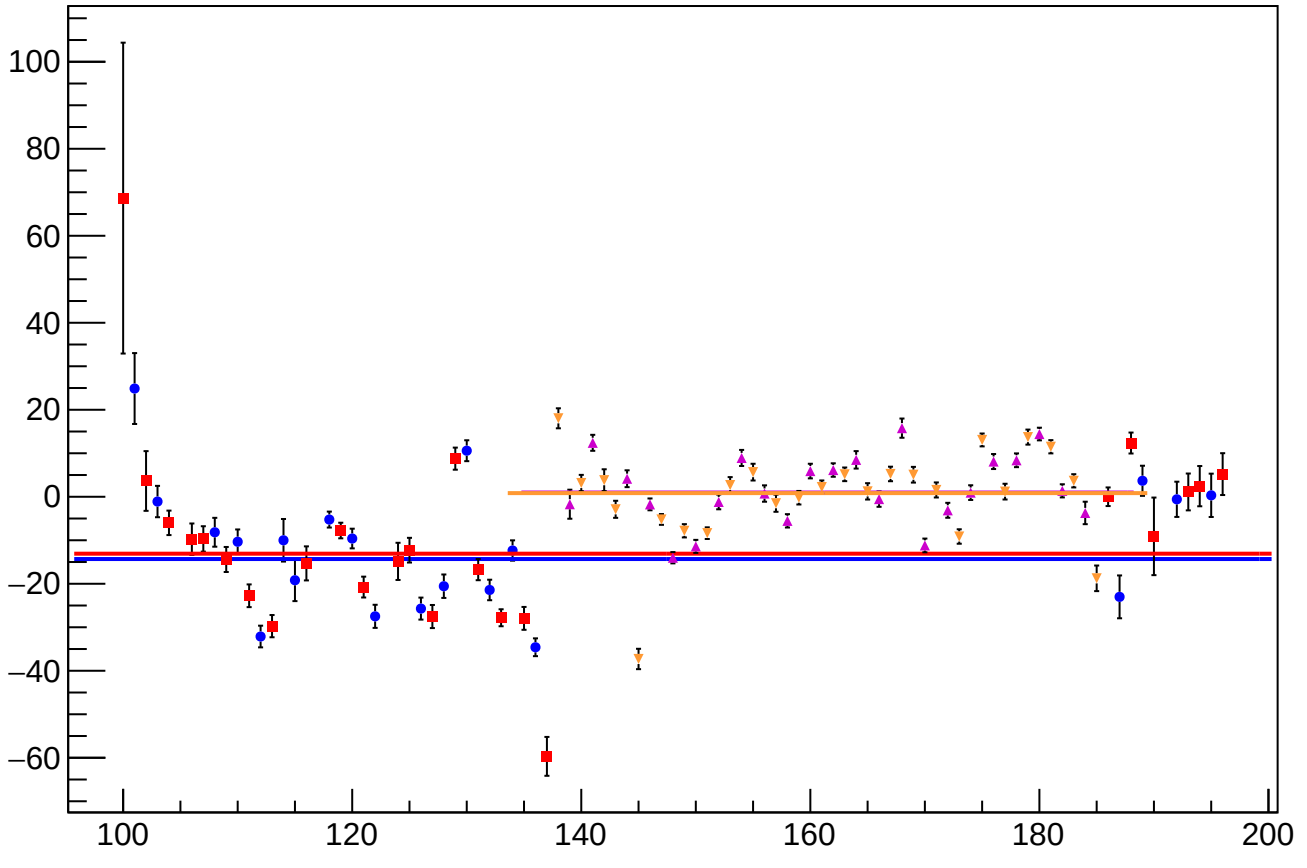
Left: 55.059+/-0.284 $\chi^2$/NDF: 4023.0/47

Right: 97.344+/-0.342 $\chi^2$/NDF: 7806.5/44

In: 69.965+/-0.326 $\chi^2$/NDF:8031.8/42

Out: 74.152+/-0.294 $\chi^2$/NDF:12751.5/49

All: 72.272+/-0.218 $\chi^2$/NDF: 20874.2/92




Right In: -14.315+/-0.634 $\chi^2$/NDF: 439.7/19

Left Out: 0.840+/-0.343 $\chi^2$/NDF:717.2/24

Right Out: -13.085+/-0.581 $\chi^2$/NDF: 585.5/24

Left In: 0.980+/-0.353 $\chi^2$/NDF:558.5/22

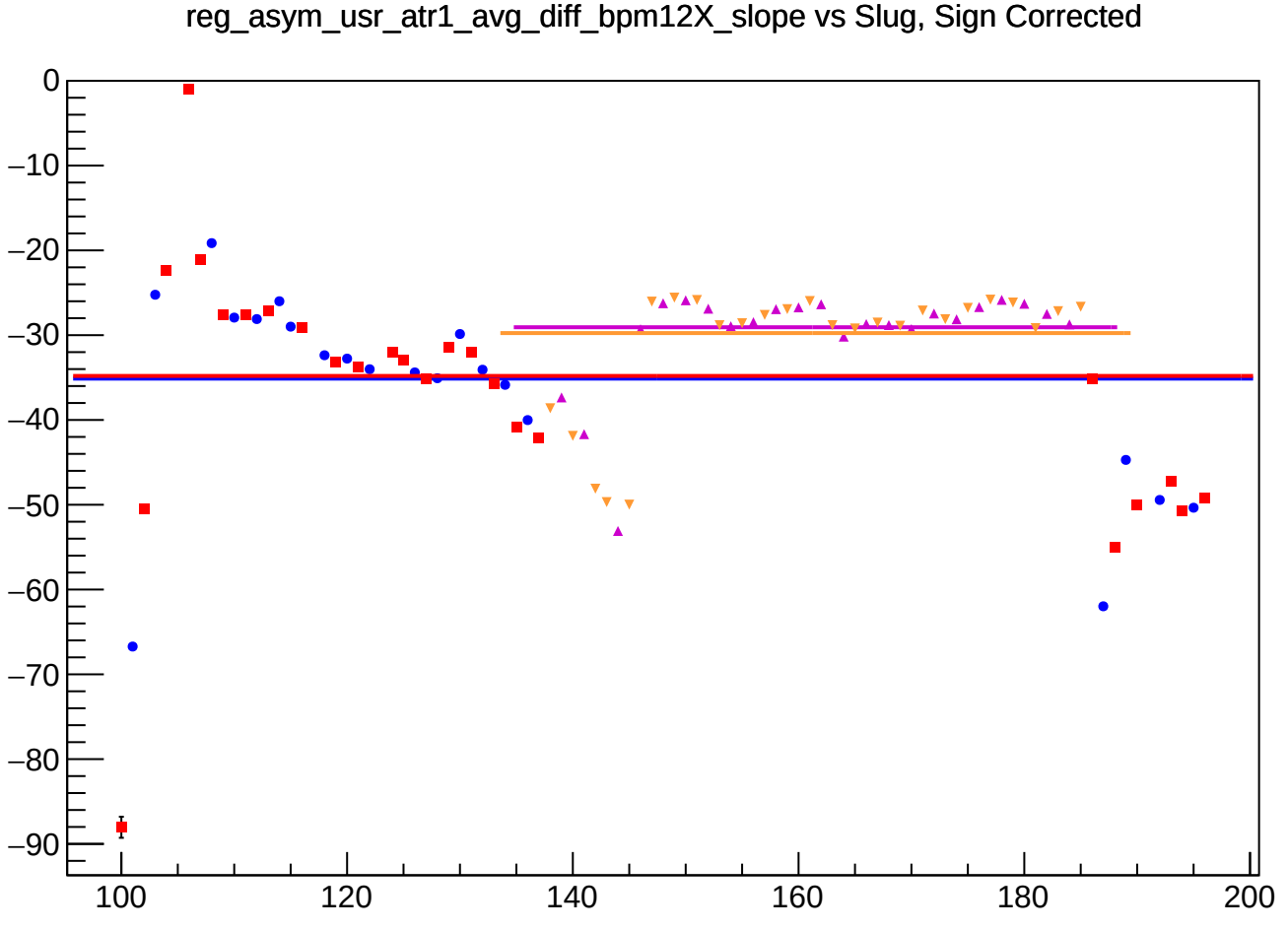
Left: 0.908+/-0.246 $\chi^2$/NDF: 1275.8/47

Right: -13.646+/-0.428 $\chi^2$/NDF: 1027.3/44

In: -2.641+/-0.309 $\chi^2$/NDF:1441.8/42

Out: -2.758+/-0.295 $\chi^2$/NDF:1728.9/49

All: -2.702+/-0.213 $\chi^2$/NDF: 3170.8/92




Right In: -35.122+/-0.035 $\chi^2$/NDF: 83372.3/19

Left Out: -29.754+/-0.016 $\chi^2$/NDF:163552.5/24

Right Out: -34.809+/-0.032 $\chi^2$/NDF: 178075.3/24

Left In: -29.067+/-0.016 $\chi^2$/NDF:101545.6/22

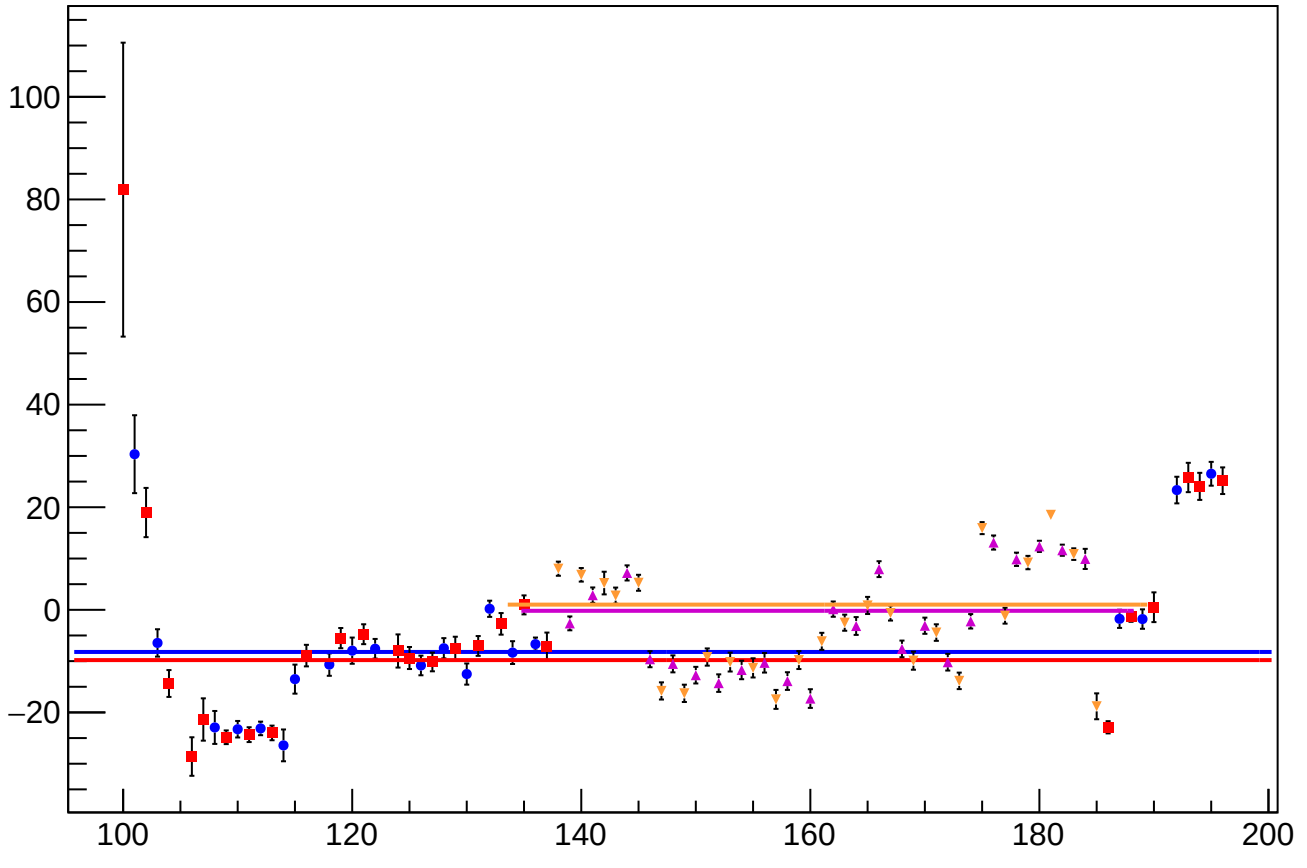
Left: -29.416+/-0.011 $\chi^2$/NDF: 266057.0/47

Right: -34.955+/-0.024 $\chi^2$/NDF: 261491.3/44

In: -30.110+/-0.014 $\chi^2$/NDF:210217.0/42

Out: -30.704+/-0.014 $\chi^2$/NDF:361430.9/49

All: -30.414+/-0.010 $\chi^2$/NDF: 572523.8/92




Right In: -8.212+/-0.448 $\chi^2$/NDF: 733.9/19

Left Out: 1.015+/-0.305 $\chi^2$/NDF:1335.1/24

Right Out: -9.801+/-0.391 $\chi^2$/NDF: 1174.5/24

Left In: -0.192+/-0.315 $\chi^2$/NDF:982.8/22

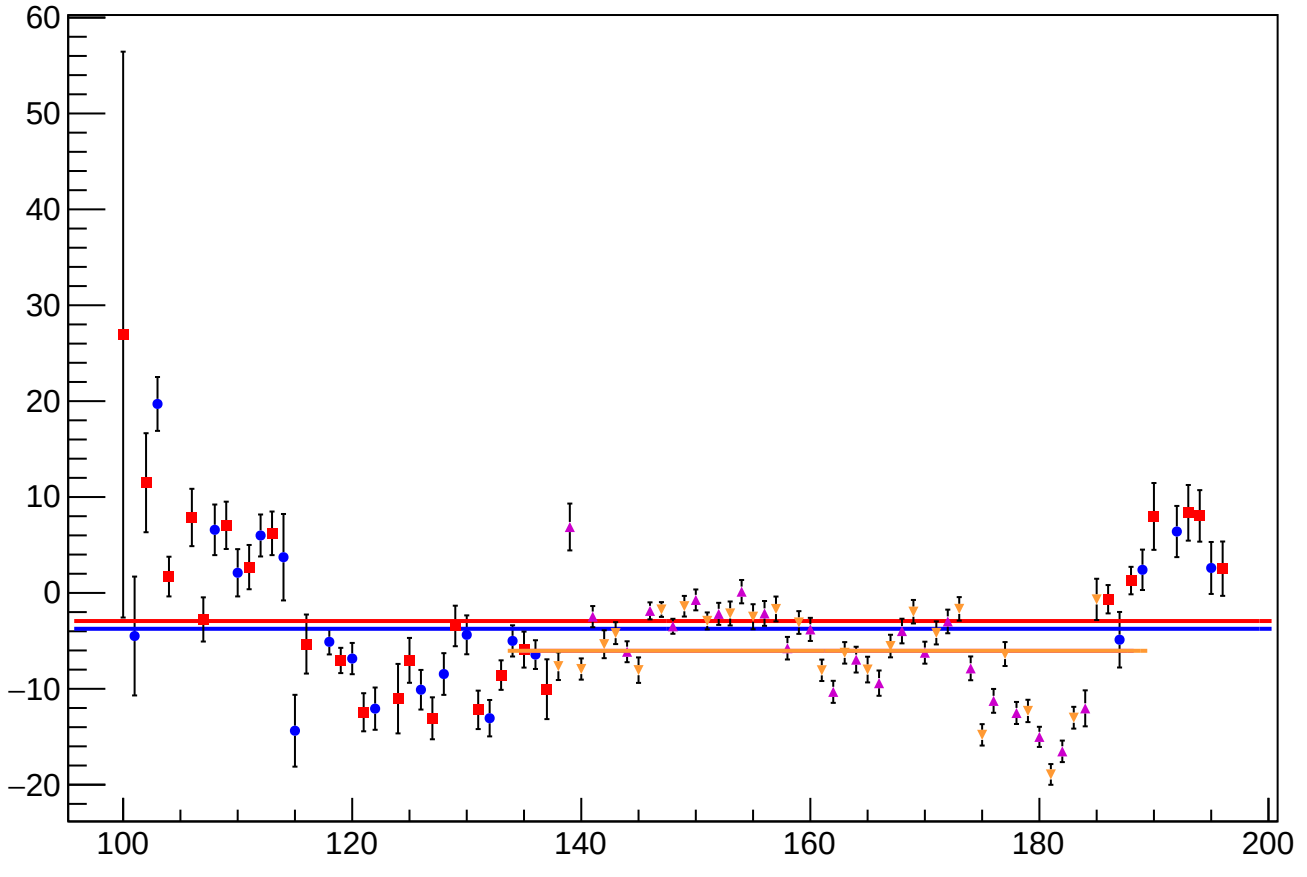
Left: 0.431+/-0.219 $\chi^2$/NDF: 2325.4/47

Right: -9.114+/-0.295 $\chi^2$/NDF: 1915.5/44

In: -2.841+/-0.257 $\chi^2$/NDF:1931.4/42

Out: -3.073+/-0.240 $\chi^2$/NDF:2985.6/49

All: -2.965+/-0.176 $\chi^2$/NDF: 4917.4/92




Right In: -3.741+/-0.479 $\chi^2$/NDF: 211.0/19

Left Out: -6.035+/-0.233 $\chi^2$/NDF:414.9/24

Right Out: -2.932+/-0.438 $\chi^2$/NDF: 227.1/24

Left In: -6.043+/-0.243 $\chi^2$/NDF:396.2/22

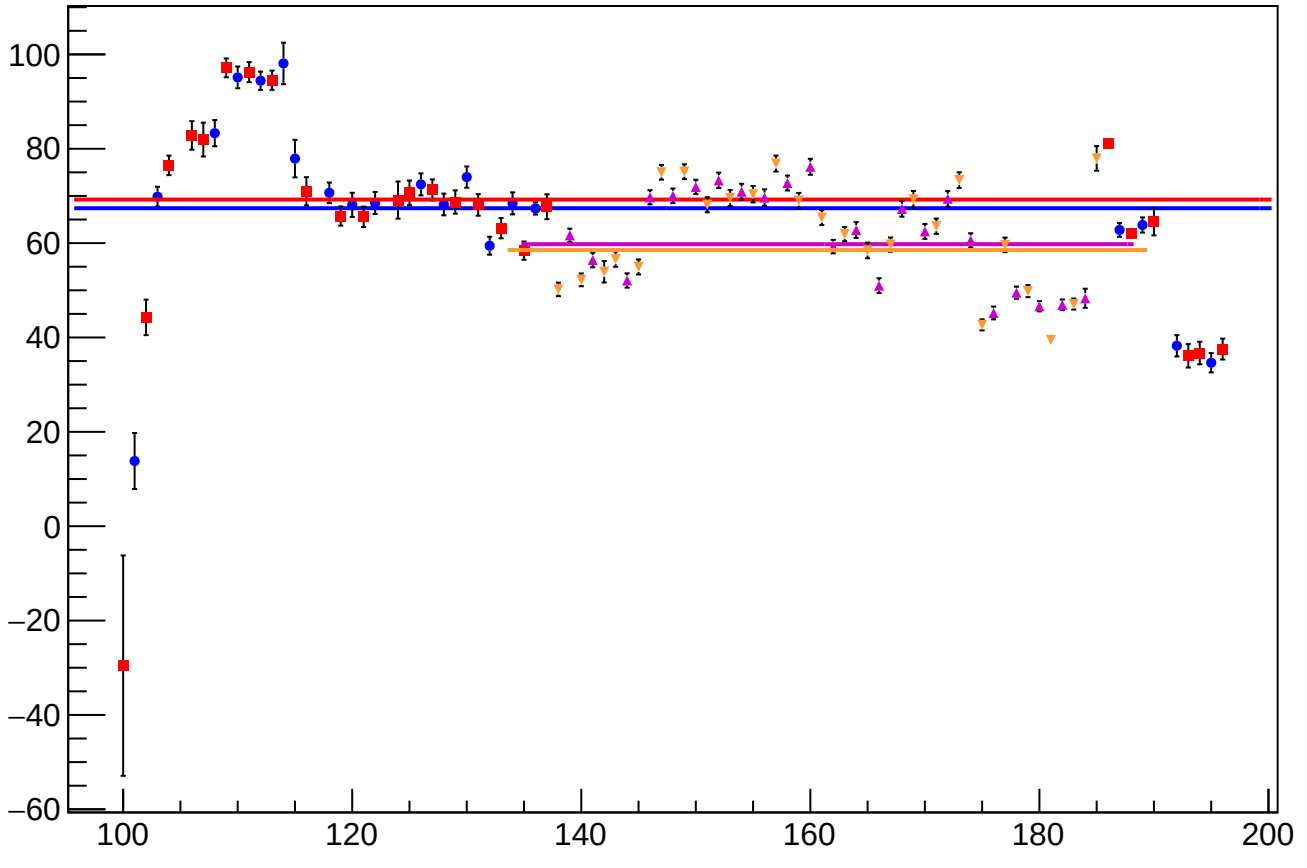
Left: -6.039+/-0.168 $\chi^2$/NDF: 811.1/47

Right: -3.300+/-0.323 $\chi^2$/NDF: 439.7/44

In: -5.572+/-0.217 $\chi^2$/NDF:625.6/42

Out: -5.350+/-0.206 $\chi^2$/NDF:681.1/49

All: -5.455+/-0.149 $\chi^2$/NDF: 1307.3/92




Right In: 67.395+/-0.476 $\chi^2$/NDF: 983.3/19

Left Out: 58.535+/-0.303 $\chi^2$/NDF:1449.2/24

Right Out: 69.234+/-0.395 $\chi^2$/NDF: 1464.6/24

Left In: 59.777+/-0.312 $\chi^2$/NDF:1070.5/22

Left: 59.139+/-0.217 $\chi^2$/NDF: 2527.9/47

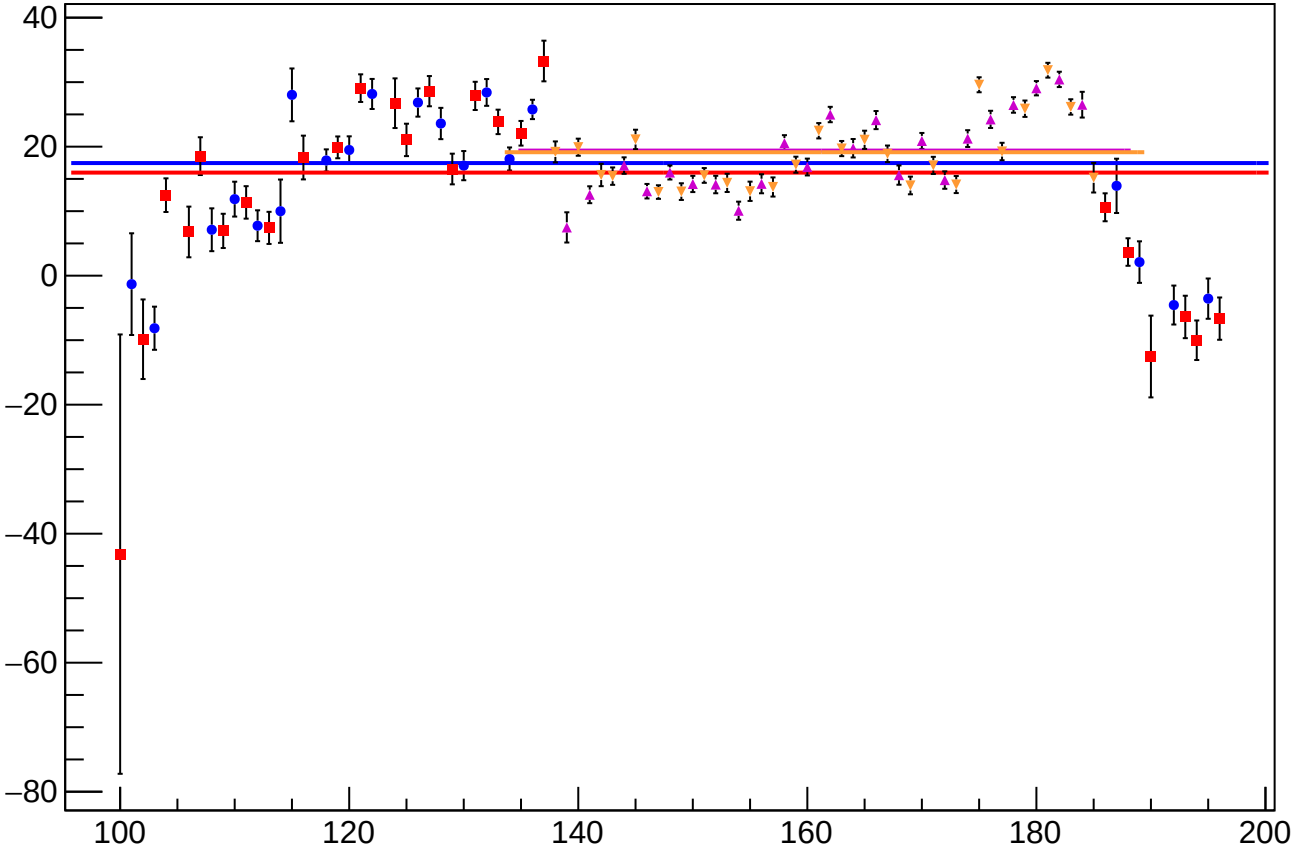
Right: 68.483+/-0.304 $\chi^2$/NDF: 2456.7/44

In: 62.065+/-0.261 $\chi^2$/NDF:2233.3/42

Out: 62.500+/-0.240 $\chi^2$/NDF:3376.0/49

All: 62.300+/-0.177 $\chi^2$/NDF: 5610.8/92

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 17.457+/-0.552 $\chi^2$/NDF: 331.2/19

Left Out: 19.138+/-0.264 $\chi^2$/NDF:433.7/24

Right Out: 15.978+/-0.522 $\chi^2$/NDF: 452.2/24

Left In: 19.390+/-0.274 $\chi^2$/NDF:467.7/22

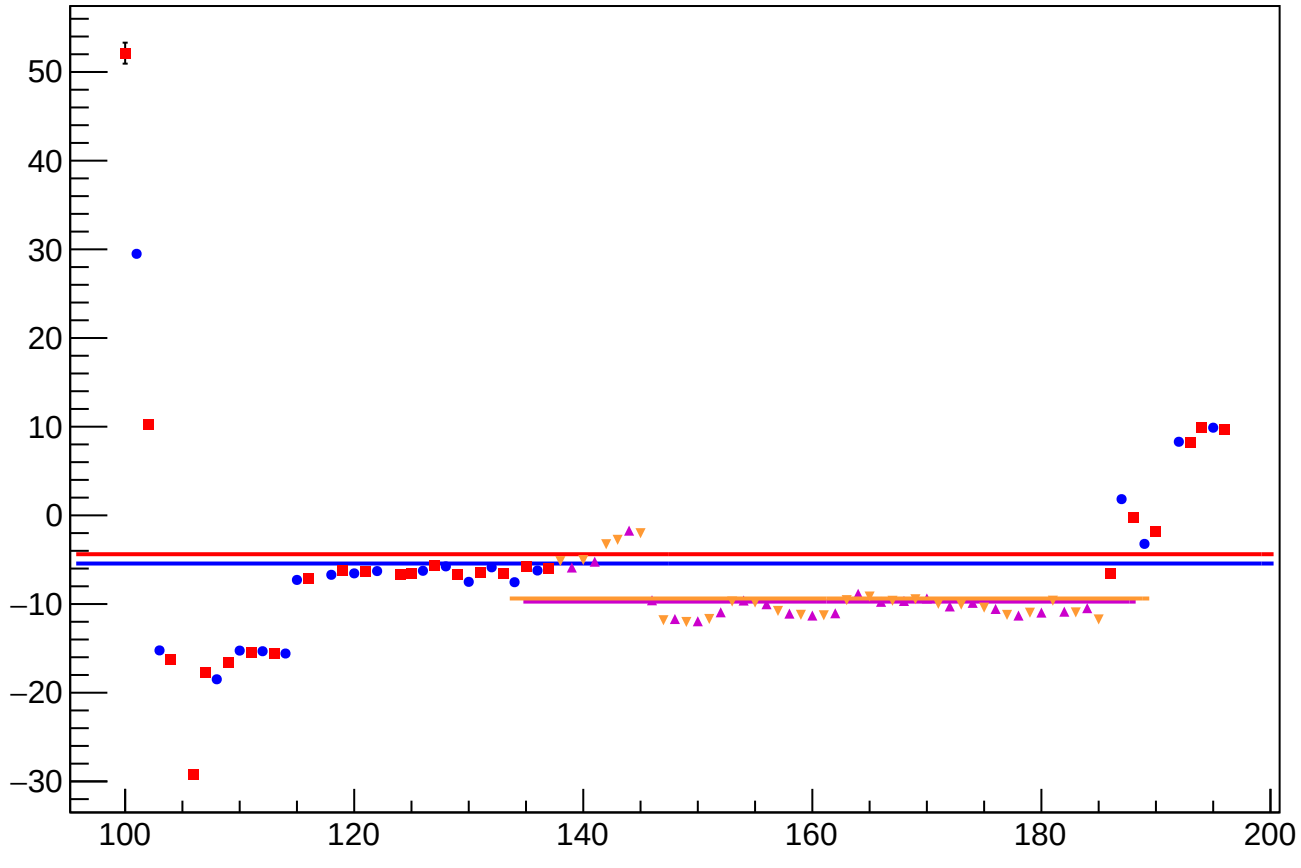
Left: 19.260+/-0.190 $\chi^2$/NDF: 901.9/47

Right: 16.677+/-0.379 $\chi^2$/NDF: 787.3/44

In: 19.008+/-0.245 $\chi^2$/NDF:808.8/42

Out: 18.495+/-0.236 $\chi^2$/NDF:915.1/49

All: 18.741+/-0.170 $\chi^2$/NDF: 1726.2/92




Right In: -5.432+/-0.029 $\chi^2$/NDF: 93627.4/19

Left Out: -9.375+/-0.012 $\chi^2$/NDF:49934.3/24

Right Out: -4.381+/-0.028 $\chi^2$/NDF: 141109.6/24

Left In: -9.726+/-0.012 $\chi^2$/NDF:31951.7/22

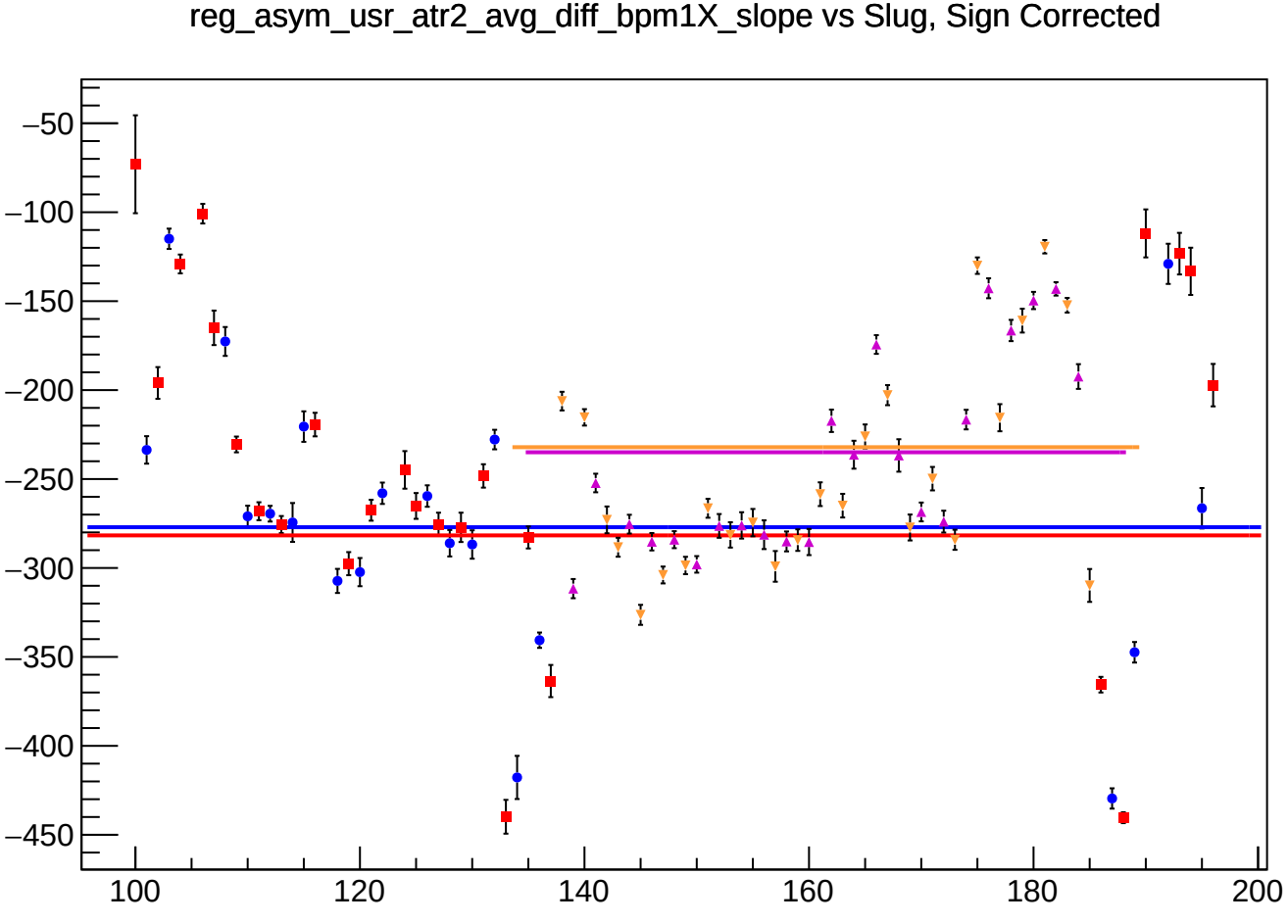
Left: -9.547+/-0.008 $\chi^2$/NDF: 82314.4/47

Right: -4.887+/-0.020 $\chi^2$/NDF: 235435.5/44

In: -9.073+/-0.011 $\chi^2$/NDF:144688.4/42

Out: -8.594+/-0.011 $\chi^2$/NDF:218652.6/49

All: -8.828+/-0.008 $\chi^2$/NDF: 364282.7/92




Right In: -277.082+/-1.474 $\chi^2$/NDF: 2568.8/19

Left Out: -232.091+/-1.143 $\chi^2$/NDF:3269.9/24

Right Out: -281.679+/-1.265 $\chi^2$/NDF: 6408.5/24

Left In: -234.951+/-1.176 $\chi^2$/NDF:2470.2/22

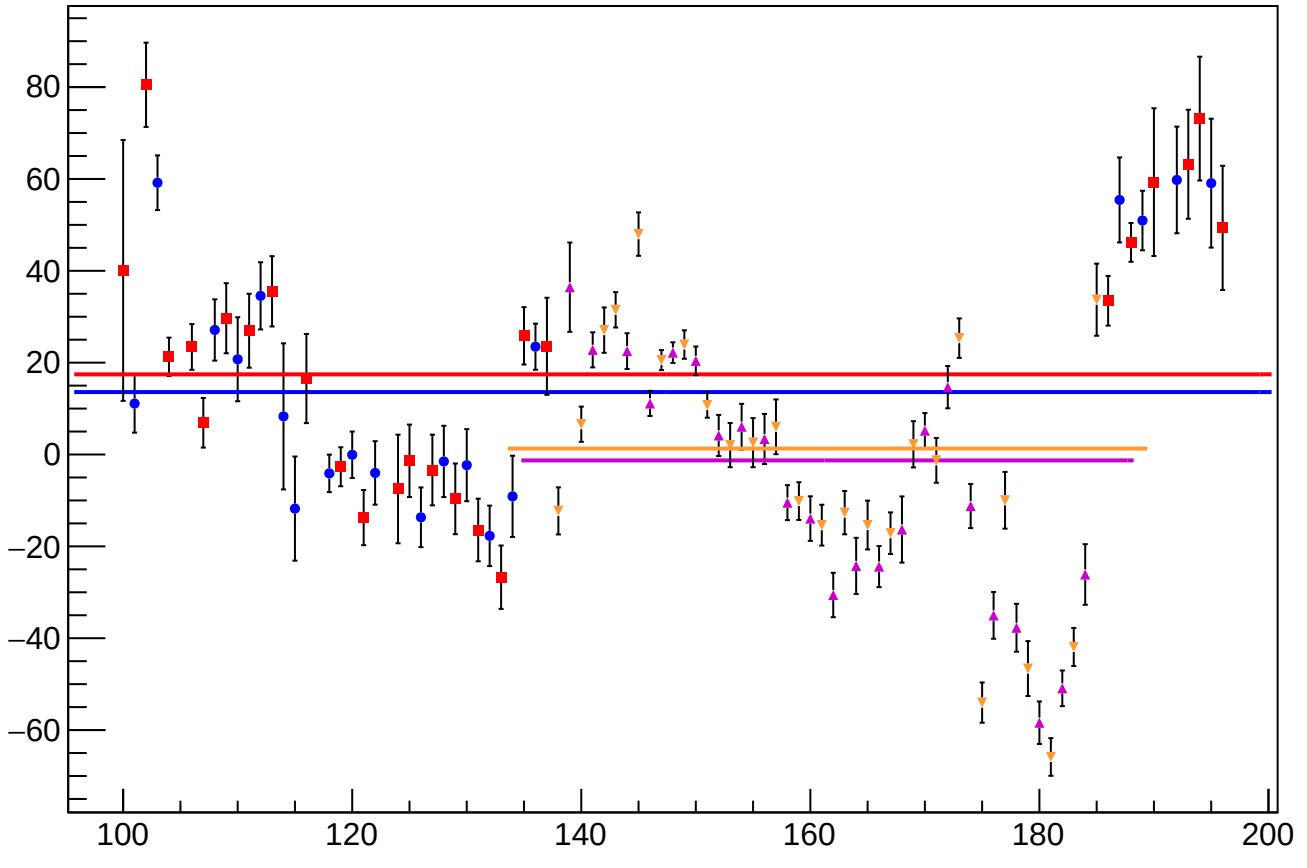
Left: -233.480+/-0.820 $\chi^2$/NDF: 5743.2/47

Right: -279.729+/-0.960 $\chi^2$/NDF: 8982.9/44

In: -251.332+/-0.919 $\chi^2$/NDF:5538.3/42

Out: -254.370+/-0.848 $\chi^2$/NDF:10524.0/49

All: -252.973+/-0.623 $\chi^2$/NDF: 16068.2/92




Right In: 13.596+/-1.547 $\chi^2$/NDF: 248.0/19

Left Out: 1.295+/-0.837 $\chi^2$/NDF:1049.5/24

Right Out: 17.456+/-1.368 $\chi^2$/NDF: 309.9/24

Left In: -1.280+/-0.869 $\chi^2$/NDF:811.2/22

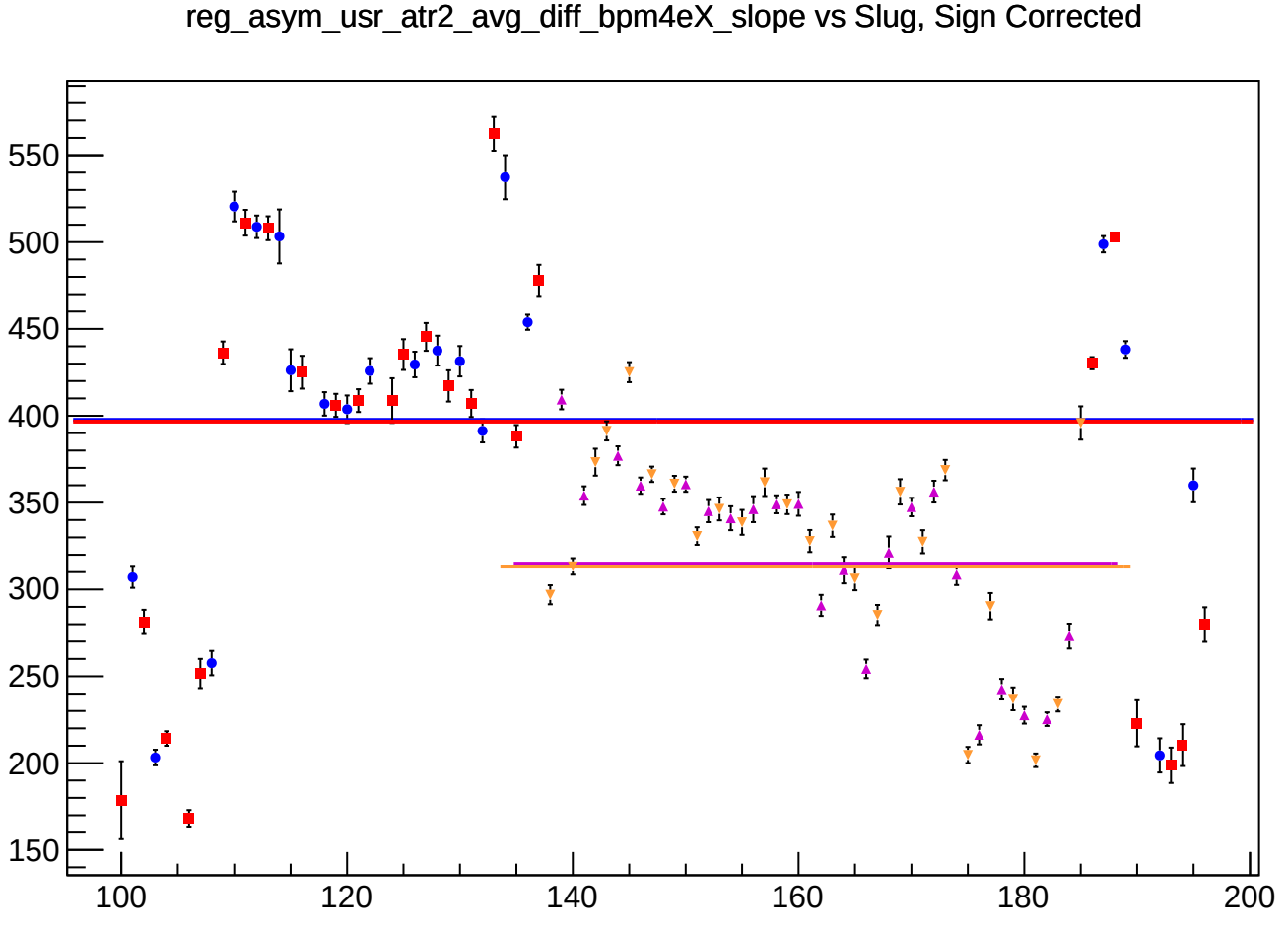
Left: 0.056+/-0.603 $\chi^2$/NDF: 1865.2/47

Right: 15.762+/-1.025 $\chi^2$/NDF: 561.4/44

In: 2.288+/-0.758 $\chi^2$/NDF:1129.5/42

Out: 5.698+/-0.714 $\chi^2$/NDF:1461.0/49

All: 4.094+/-0.520 $\chi^2$/NDF: 2601.2/92




Right In: 397.619+/-1.509 $\chi^2$/NDF: 4359.6/19

Left Out: 313.197+/-1.134 $\chi^2$/NDF:3135.7/24

Right Out: 396.645+/-1.242 $\chi^2$/NDF: 8751.8/24

Left In: 314.864+/-1.161 $\chi^2$/NDF:2429.0/22

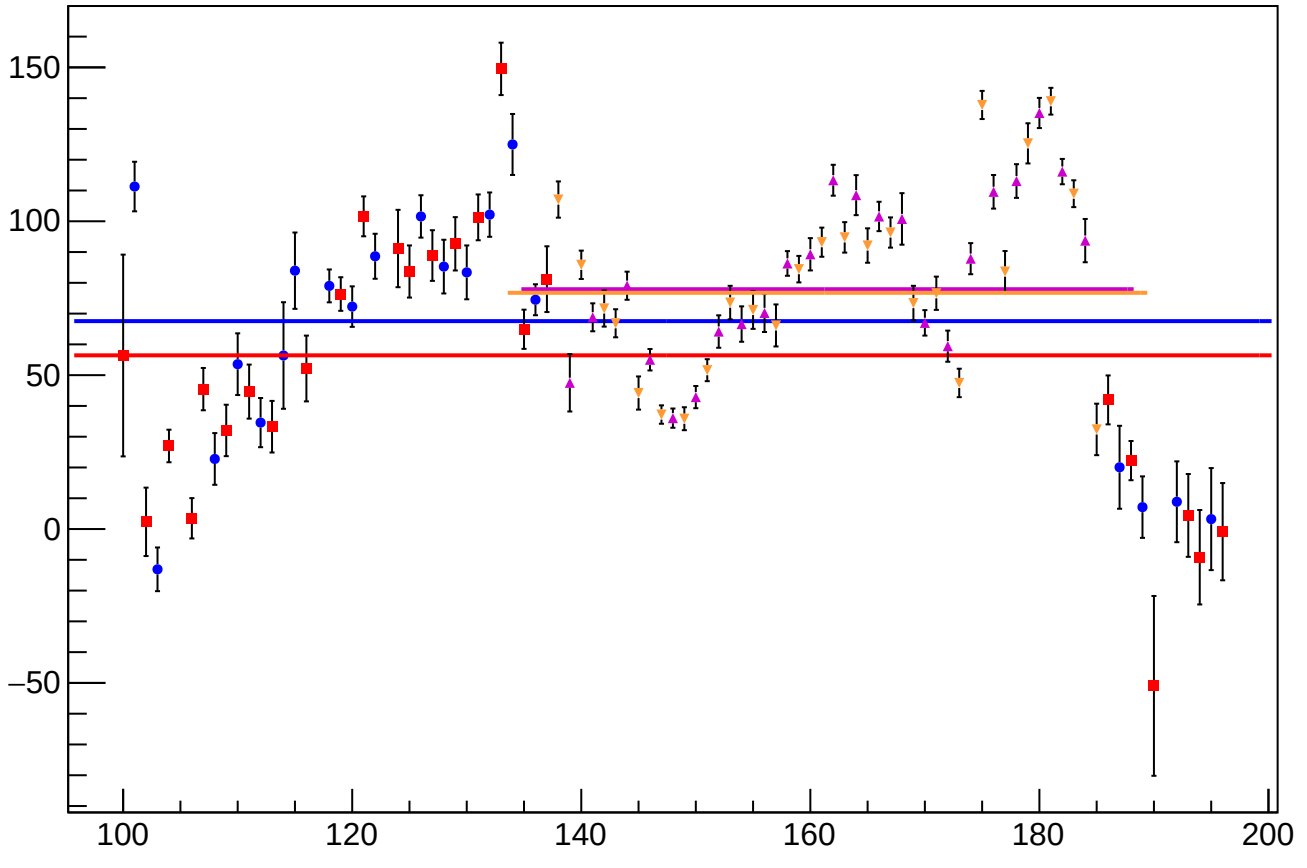
Left: 314.010+/-0.811 $\chi^2$/NDF: 5565.8/47

Right: 397.039+/-0.959 $\chi^2$/NDF: 13111.6/44

In: 345.657+/-0.920 $\chi^2$/NDF:8678.0/42

Out: 351.123+/-0.838 $\chi^2$/NDF:14348.8/49

All: 348.647+/-0.619 $\chi^2$/NDF: 23046.1/92




Right In: 67.555+/-1.817 $\chi^2$/NDF: 395.8/19

Left Out: 76.758+/-0.967 $\chi^2$/NDF:1035.3/24

Right Out: 56.441+/-1.653 $\chi^2$/NDF: 508.5/24

Left In: 77.923+/-0.997 $\chi^2$/NDF:783.8/22

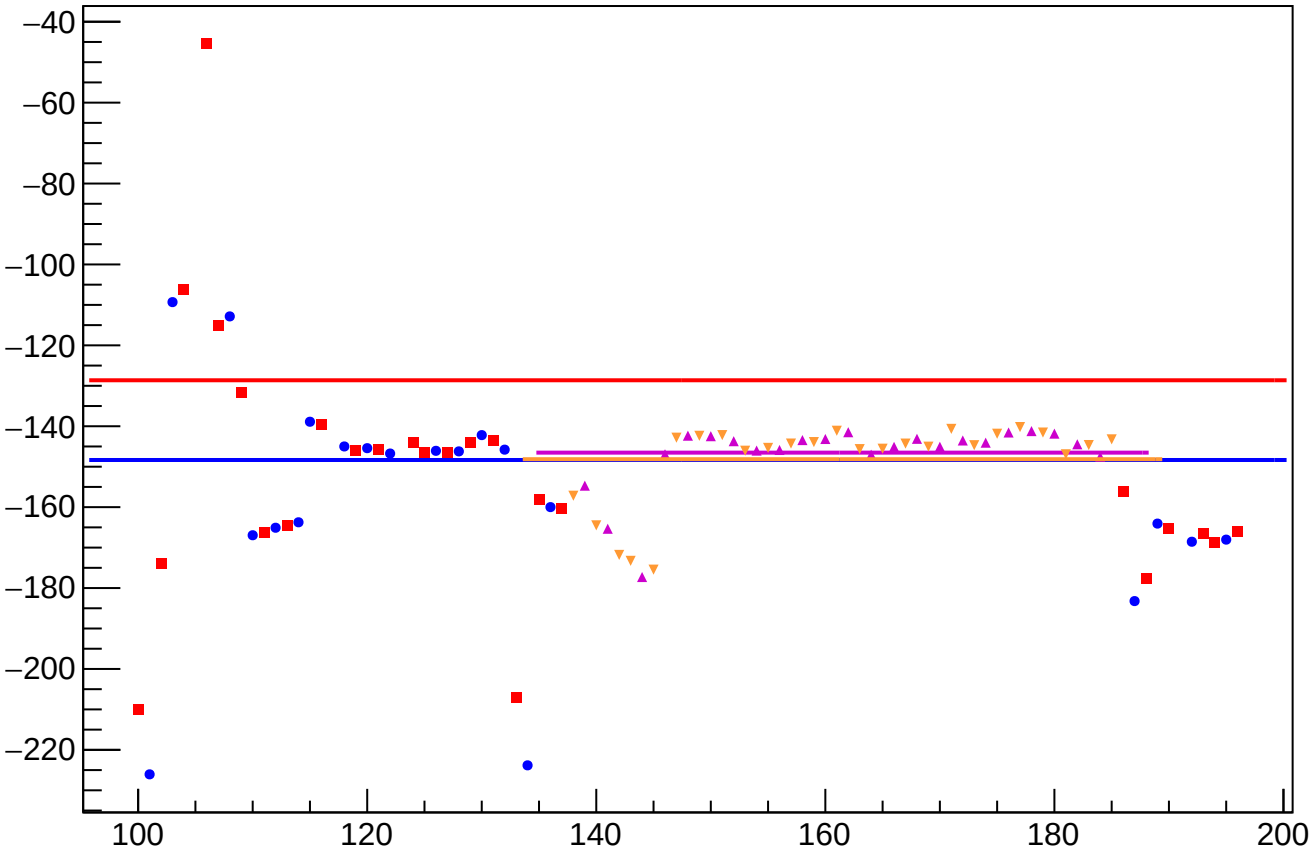
Left: 77.323+/-0.694 $\chi^2$/NDF: 1819.9/47

Right: 61.474+/-1.223 $\chi^2$/NDF: 924.7/44

In: 75.525+/-0.874 $\chi^2$/NDF:1204.7/42

Out: 71.582+/-0.834 $\chi^2$/NDF:1656.3/49

All: 73.462+/-0.604 $\chi^2$/NDF: 2871.7/92




Right In: -148.342+/-0.092 $\chi^2$/NDF: 140075.4/19

Left Out: -148.148+/-0.045 $\chi^2$/NDF:48910.2/24

Right Out: -128.634+/-0.081 $\chi^2$/NDF: 325469.9/24

Left In: -146.523+/-0.046 $\chi^2$/NDF:29172.3/22

Left: -147.344+/-0.032 $\chi^2$/NDF: 78725.9/47

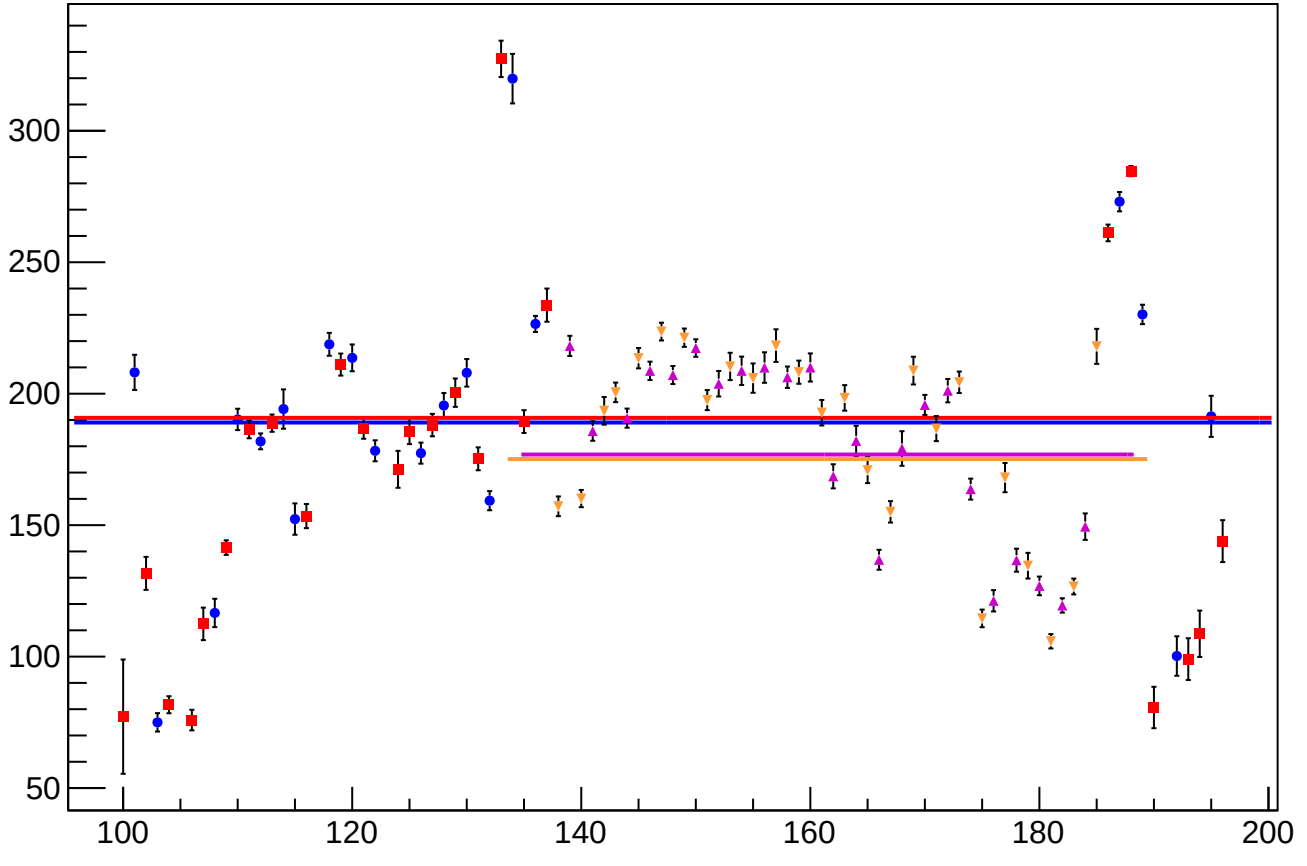
Right: -137.242+/-0.061 $\chi^2$/NDF: 491584.4/44

In: -146.883+/-0.041 $\chi^2$/NDF:169563.7/42

Out: -143.507+/-0.039 $\chi^2$/NDF:418927.8/49

All: -145.135+/-0.028 $\chi^2$/NDF: 592038.0/92

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 189.038+/-0.988 $\chi^2$/NDF: 2589.1/19

Left Out: 175.126+/-0.822 $\chi^2$/NDF:2295.2/24

Right Out: 190.806+/-0.838 $\chi^2$/NDF: 6445.5/24

Left In: 176.862+/-0.847 $\chi^2$/NDF:1756.1/22

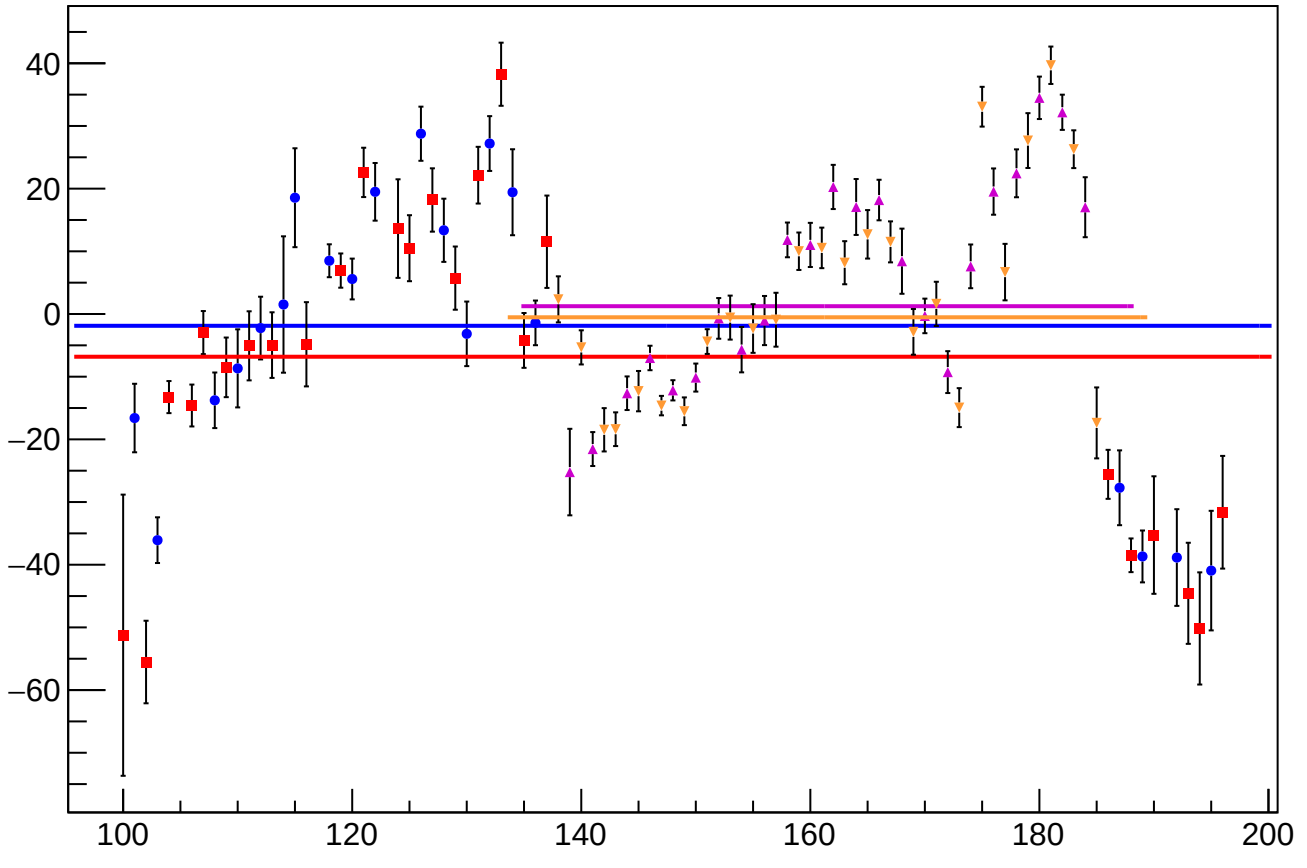
Left: 175.968+/-0.590 $\chi^2$/NDF: 4053.4/47

Right: 190.066+/-0.639 $\chi^2$/NDF: 9036.5/44

In: 182.022+/-0.643 $\chi^2$/NDF:4432.8/42

Out: 182.819+/-0.587 $\chi^2$/NDF:8919.2/49

All: 182.457+/-0.433 $\chi^2$/NDF: 13352.9/92




Right In: -1.882+/-1.035 $\chi^2$/NDF: 403.9/19

Left Out: -0.523+/-0.601 $\chi^2$/NDF:724.5/24

Right Out: -6.817+/-0.901 $\chi^2$/NDF: 553.3/24

Left In: 1.244+/-0.625 $\chi^2$/NDF:620.6/22

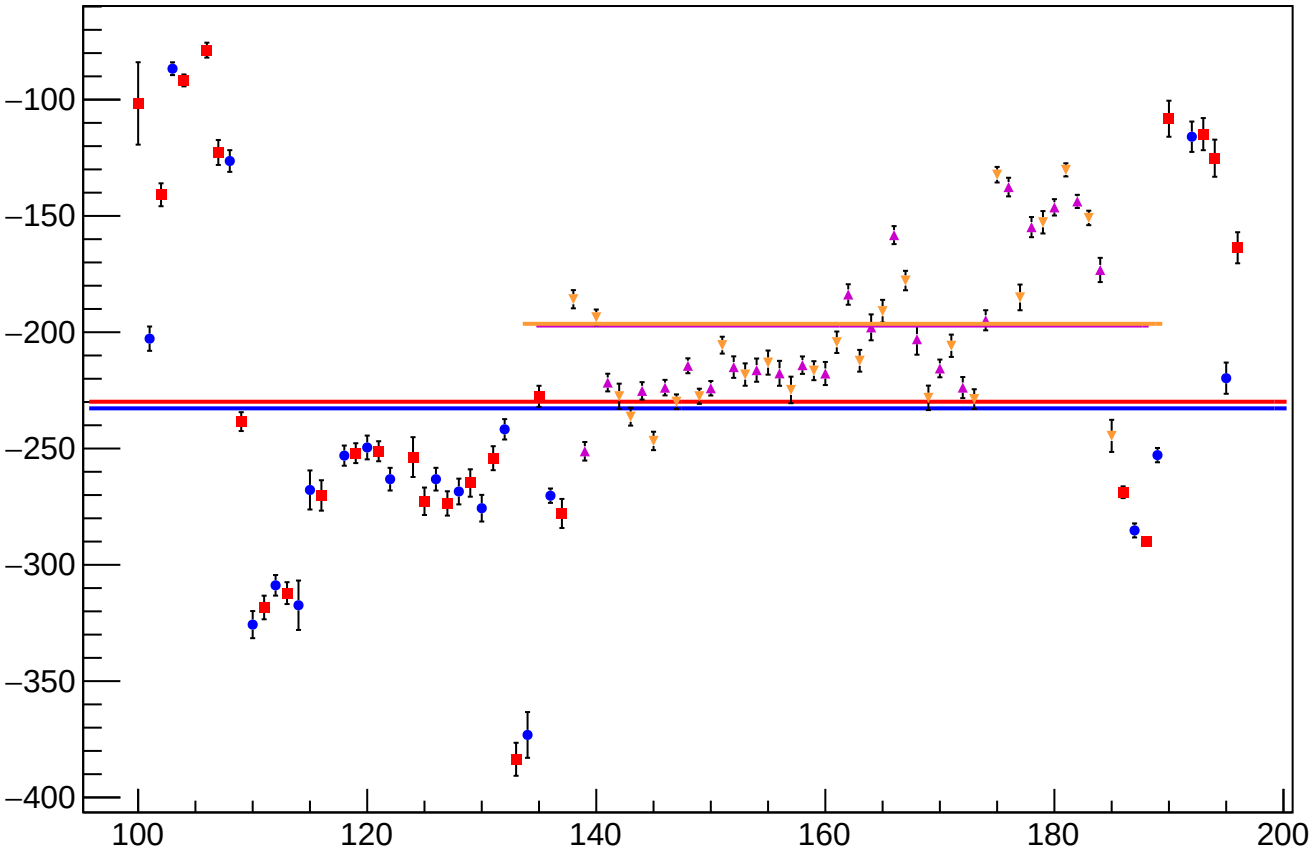
Left: 0.325+/-0.433 $\chi^2$/NDF: 1349.2/47

Right: -4.689+/-0.680 $\chi^2$/NDF: 970.1/44

In: 0.408+/-0.535 $\chi^2$/NDF:1031.1/42

Out: -2.460+/-0.500 $\chi^2$/NDF:1311.6/49

All: -1.124+/-0.365 $\chi^2$/NDF: 2358.0/92




Right In: -232.735+/-1.007 $\chi^2$/NDF: 5240.3/19

Left Out: -196.380+/-0.816 $\chi^2$/NDF:1997.7/24

Right Out: -229.876+/-0.818 $\chi^2$/NDF: 9858.8/24

Left In: -197.128+/-0.837 $\chi^2$/NDF:1601.5/22

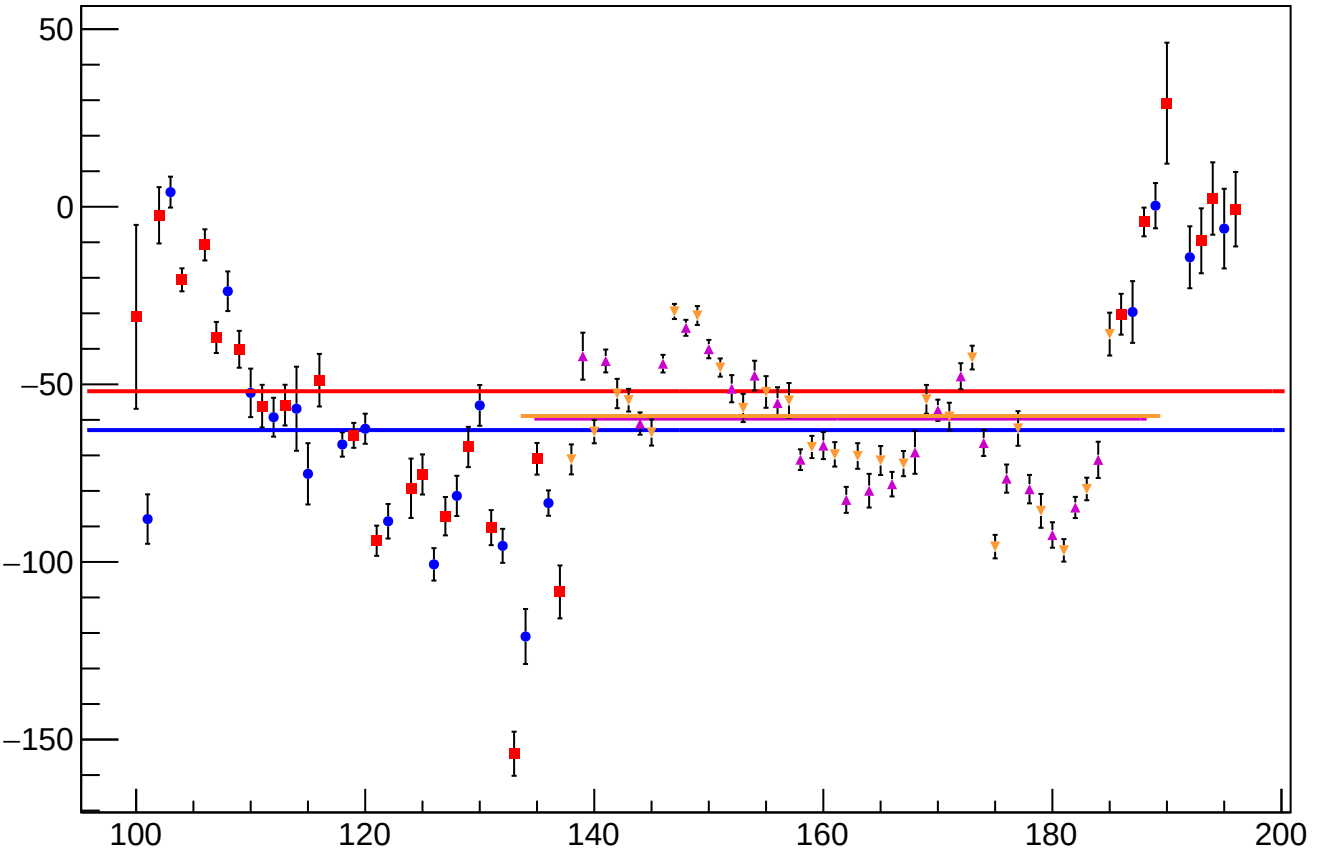
Left: -196.744+/-0.584 $\chi^2$/NDF: 3599.6/47

Right: -231.013+/-0.635 $\chi^2$/NDF: 15103.9/44

In: -211.668+/-0.644 $\chi^2$/NDF:7581.1/42

Out: -213.073+/-0.578 $\chi^2$/NDF:12696.7/49

All: -212.446+/-0.430 $\chi^2$/NDF: 20280.5/92




Right In: -62.879+/-1.221 $\chi^2$/NDF: 719.5/19

Left Out: -58.910+/-0.695 $\chi^2$/NDF:782.5/24

Right Out: -51.936+/-1.092 $\chi^2$/NDF: 1084.3/24

Left In: -59.637+/-0.718 $\chi^2$/NDF:597.0/22

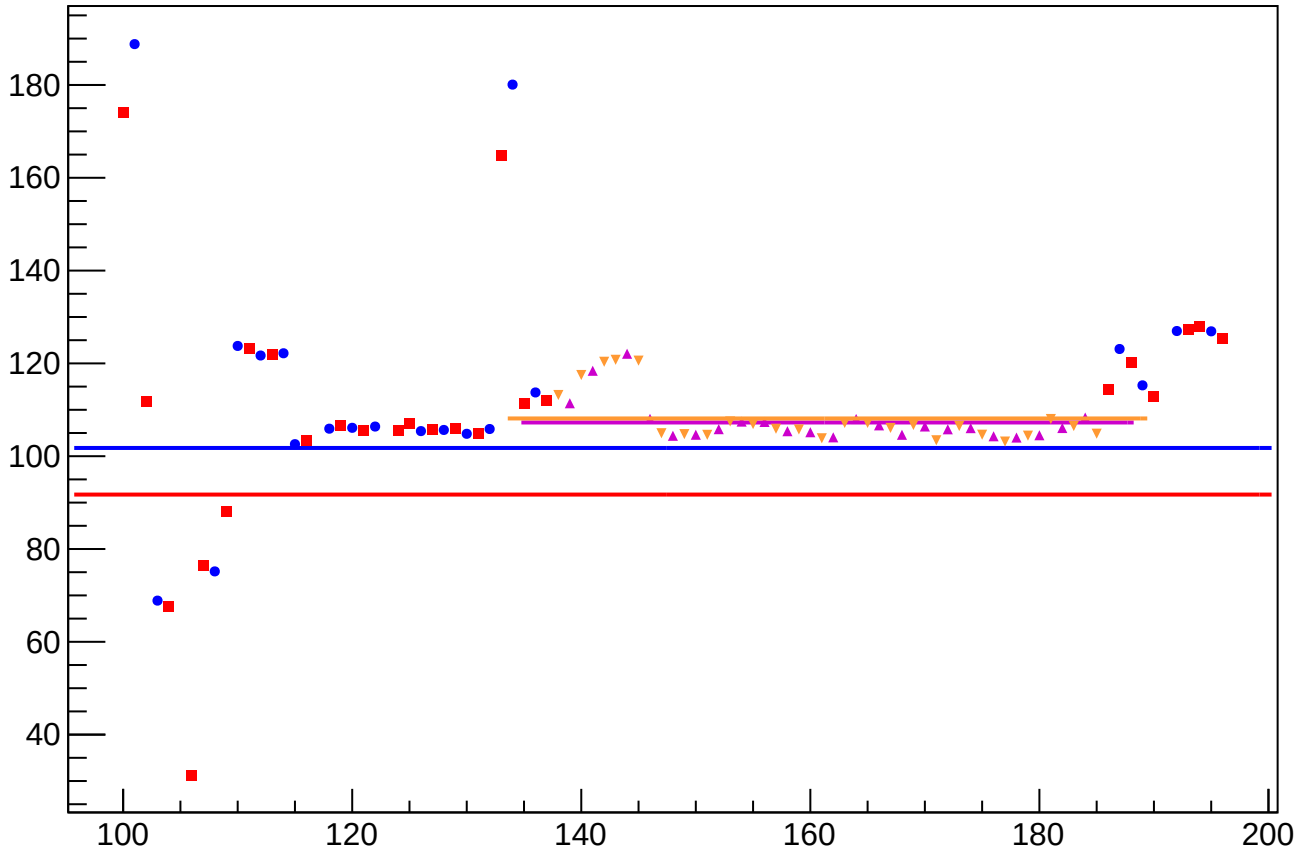
Left: -59.261+/-0.499 $\chi^2$/NDF: 1380.0/47

Right: -56.800+/-0.814 $\chi^2$/NDF: 1848.4/44

In: -60.471+/-0.619 $\chi^2$/NDF:1321.8/42

Out: -56.900+/-0.586 $\chi^2$/NDF:1895.8/49

All: -58.588+/-0.426 $\chi^2$/NDF: 3235.1/92




Right In: 101.777+/-0.061 $\chi^2$/NDF: 248632.5/19

Left Out: 108.136+/-0.032 $\chi^2$/NDF:26420.1/24

Right Out: 91.731+/-0.055 $\chi^2$/NDF: 345685.3/24

Left In: 107.266+/-0.033 $\chi^2$/NDF:16879.3/22

Left: 107.706+/-0.023 $\chi^2$/NDF: 43654.4/47

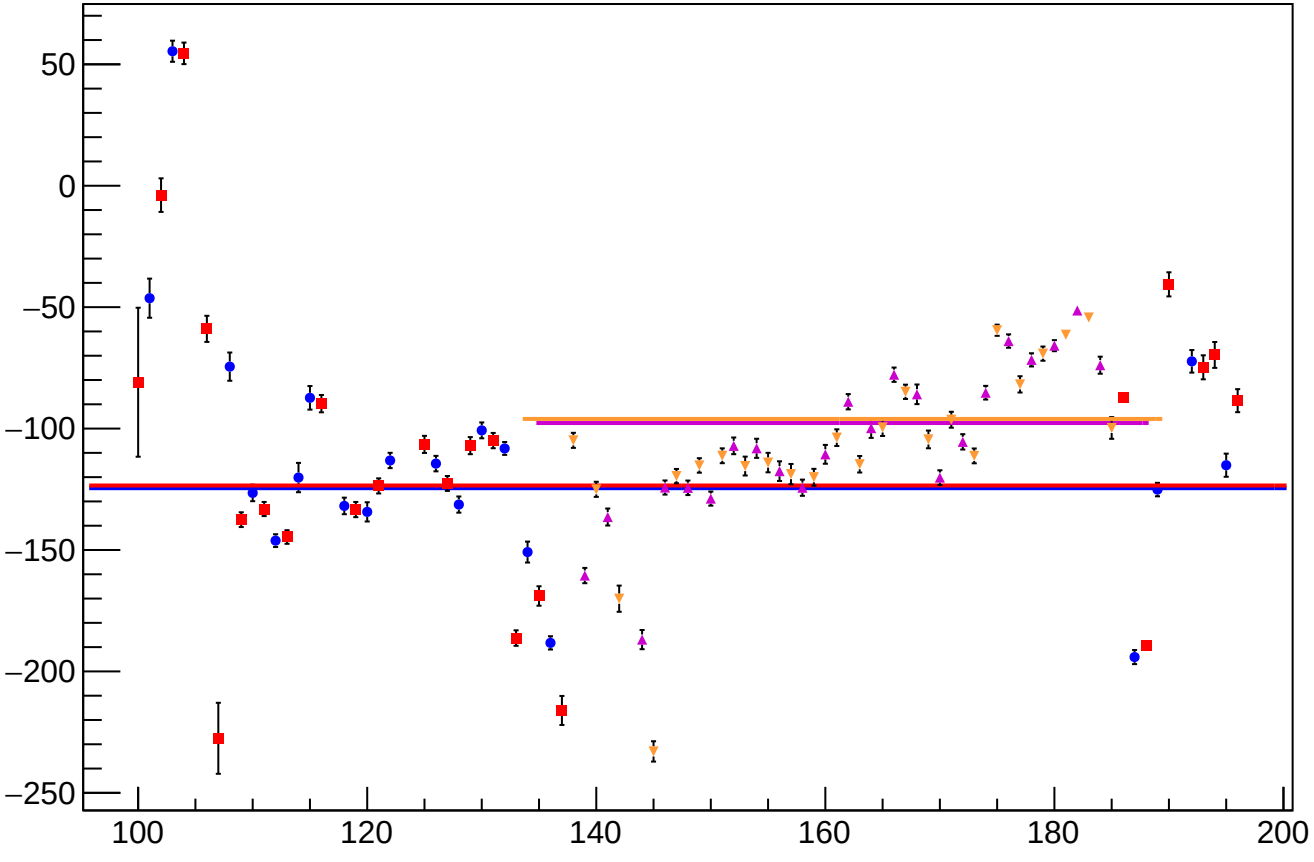
Right: 96.176+/-0.041 $\chi^2$/NDF: 609284.2/44

In: 106.043+/-0.029 $\chi^2$/NDF:271739.3/42

Out: 103.856+/-0.028 $\chi^2$/NDF:438770.3/49

All: 104.909+/-0.020 $\chi^2$/NDF: 713468.1/92

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -124.548+/-0.791 $\chi^2$/NDF: 3421.0/19

Left Out: -96.026+/-0.635 $\chi^2$/NDF:2770.9/23

Right Out: -123.439+/-0.673 $\chi^2$/NDF: 5776.8/23

Left In: -97.713+/-0.639 $\chi^2$/NDF:2640.9/22

Left: -96.865+/-0.450 $\chi^2$/NDF: 5415.3/46

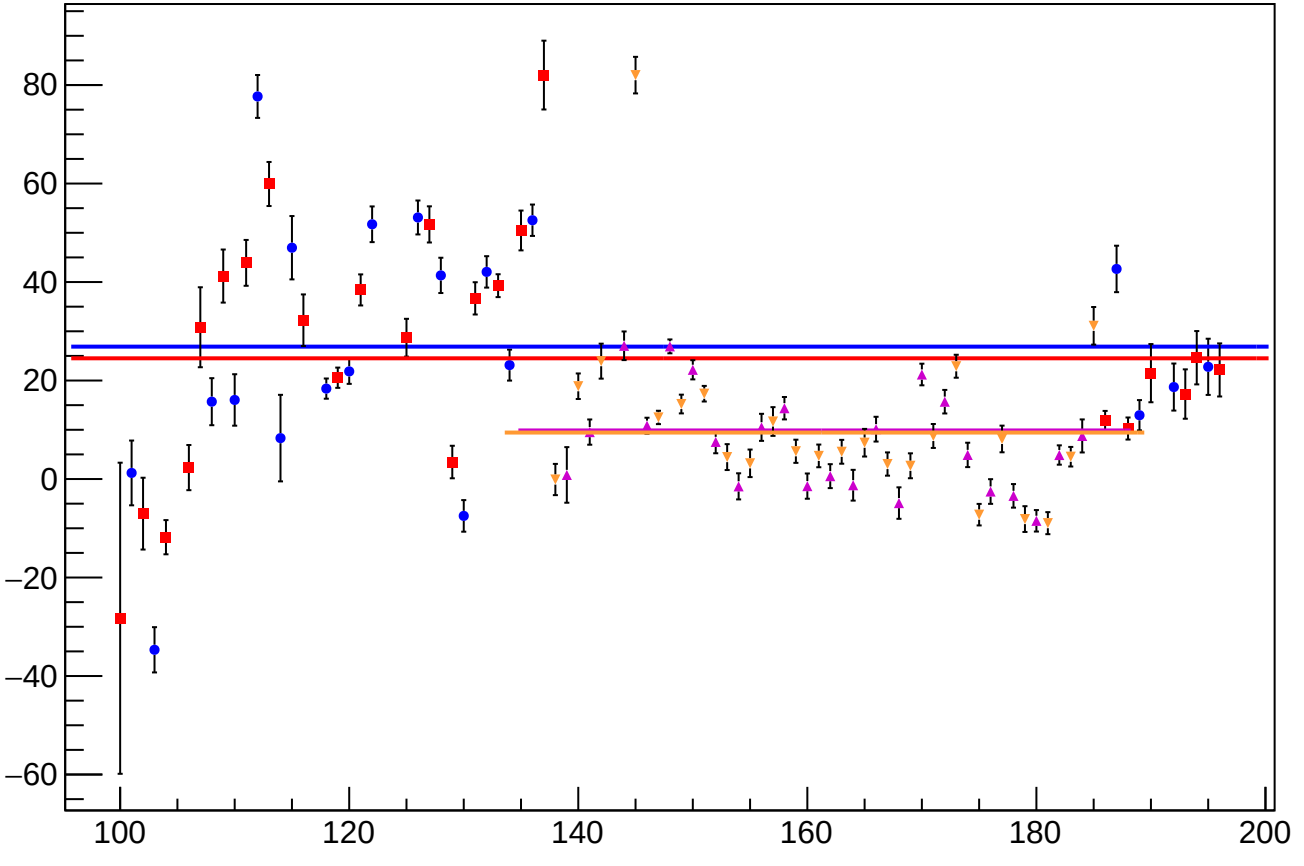
Right: -123.905+/-0.512 $\chi^2$/NDF: 9198.9/43

In: -108.309+/-0.497 $\chi^2$/NDF:6759.2/42

Out: -108.940+/-0.462 $\chi^2$/NDF:9426.0/47

All: -108.647+/-0.338 $\chi^2$/NDF: 16186.1/90

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 26.885+/-0.818 $\chi^2$/NDF: 736.1/19

Left Out: 9.438+/-0.478 $\chi^2$/NDF:736.4/23

Right Out: 24.513+/-0.737 $\chi^2$/NDF: 611.7/23

Left In: 9.864+/-0.487 $\chi^2$/NDF:485.4/22

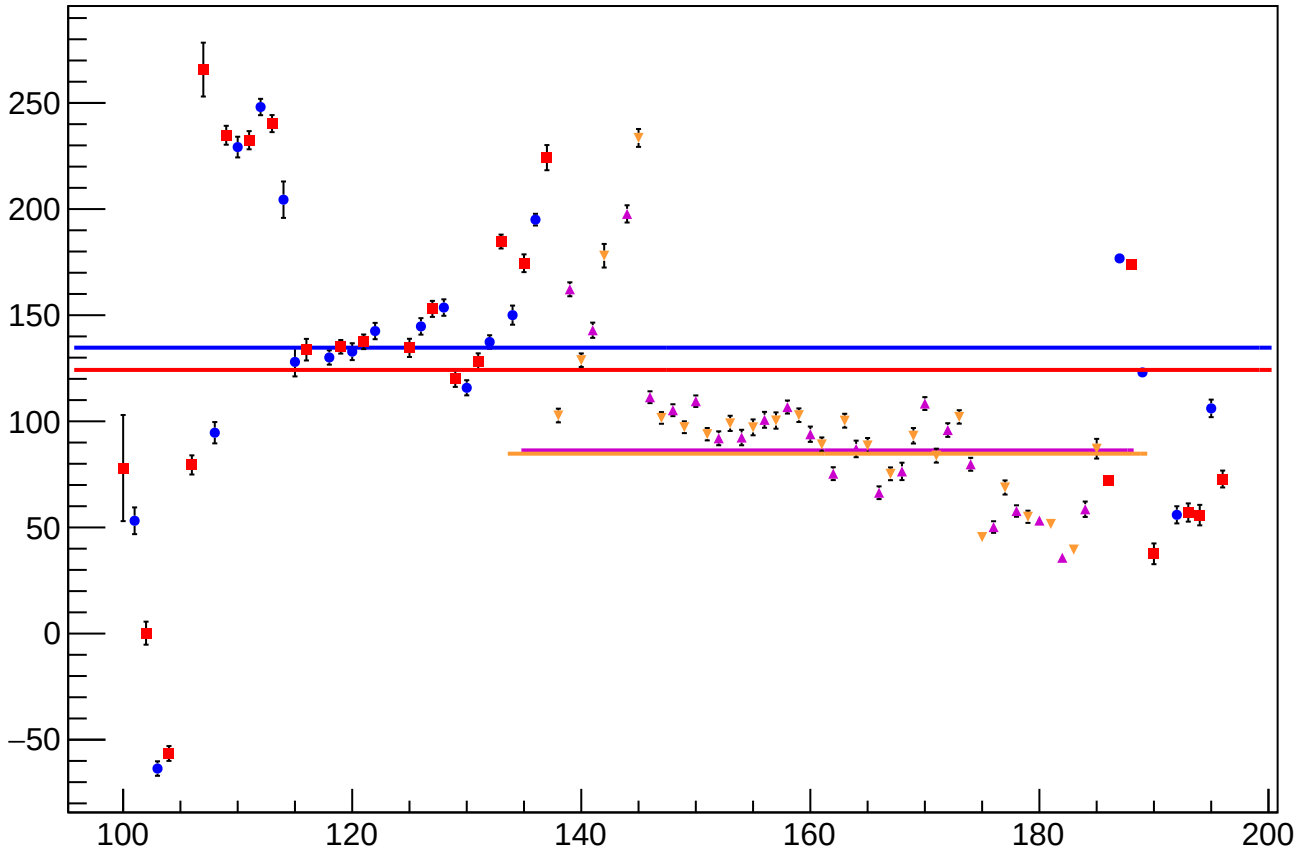
Left: 9.648+/-0.341 $\chi^2$/NDF: 1222.1/46

Right: 25.575+/-0.548 $\chi^2$/NDF: 1352.4/43

In: 14.310+/-0.418 $\chi^2$/NDF:1541.0/42

Out: 13.902+/-0.401 $\chi^2$/NDF:1642.6/47

All: 14.097+/-0.289 $\chi^2$/NDF: 3184.1/90




Right In: 134.701+/-0.822 $\chi^2$/NDF: 6228.9/19

Left Out: 84.759+/-0.629 $\chi^2$/NDF:3110.5/23

Right Out: 124.217+/-0.651 $\chi^2$/NDF: 10282.8/23

Left In: 86.300+/-0.632 $\chi^2$/NDF:3152.8/22

Left: 85.526+/-0.446 $\chi^2$/NDF: 6266.2/46

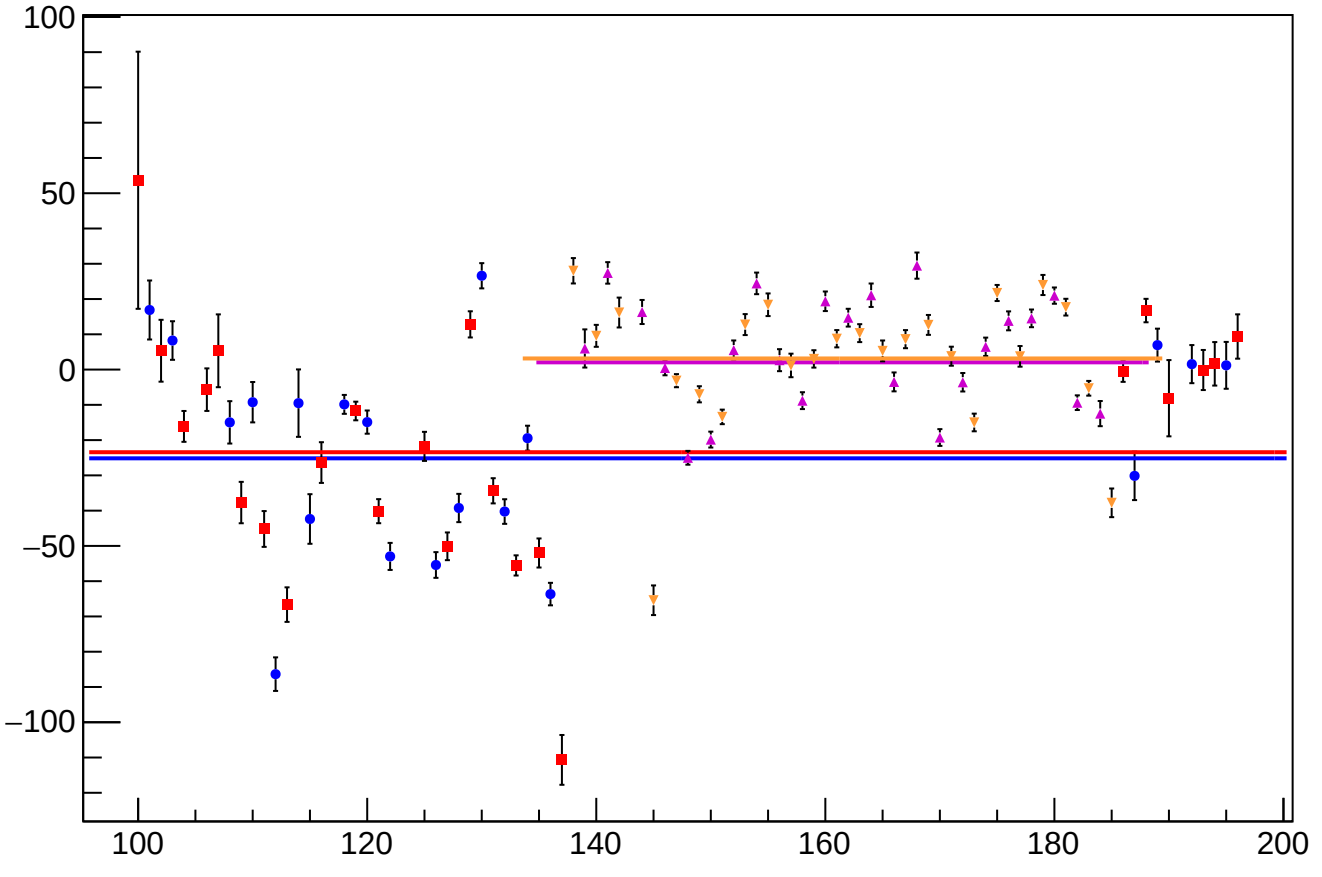
Right: 128.256+/-0.510 $\chi^2$/NDF: 16611.7/43

In: 104.272+/-0.501 $\chi^2$/NDF:11560.7/42

Out: 103.820+/-0.452 $\chi^2$/NDF:15293.4/47

All: 104.023+/-0.336 $\chi^2$/NDF: 26854.5/90

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -25.166+/-0.962 $\chi^2$/NDF: 887.9/19

Left Out: 3.151+/-0.544 $\chi^2$/NDF:813.9/23

Right Out: -23.433+/-0.898 $\chi^2$/NDF: 925.7/23

Left In: 2.050+/-0.551 $\chi^2$/NDF:850.8/22

Left: 2.608+/-0.387 $\chi^2$/NDF: 1666.7/46

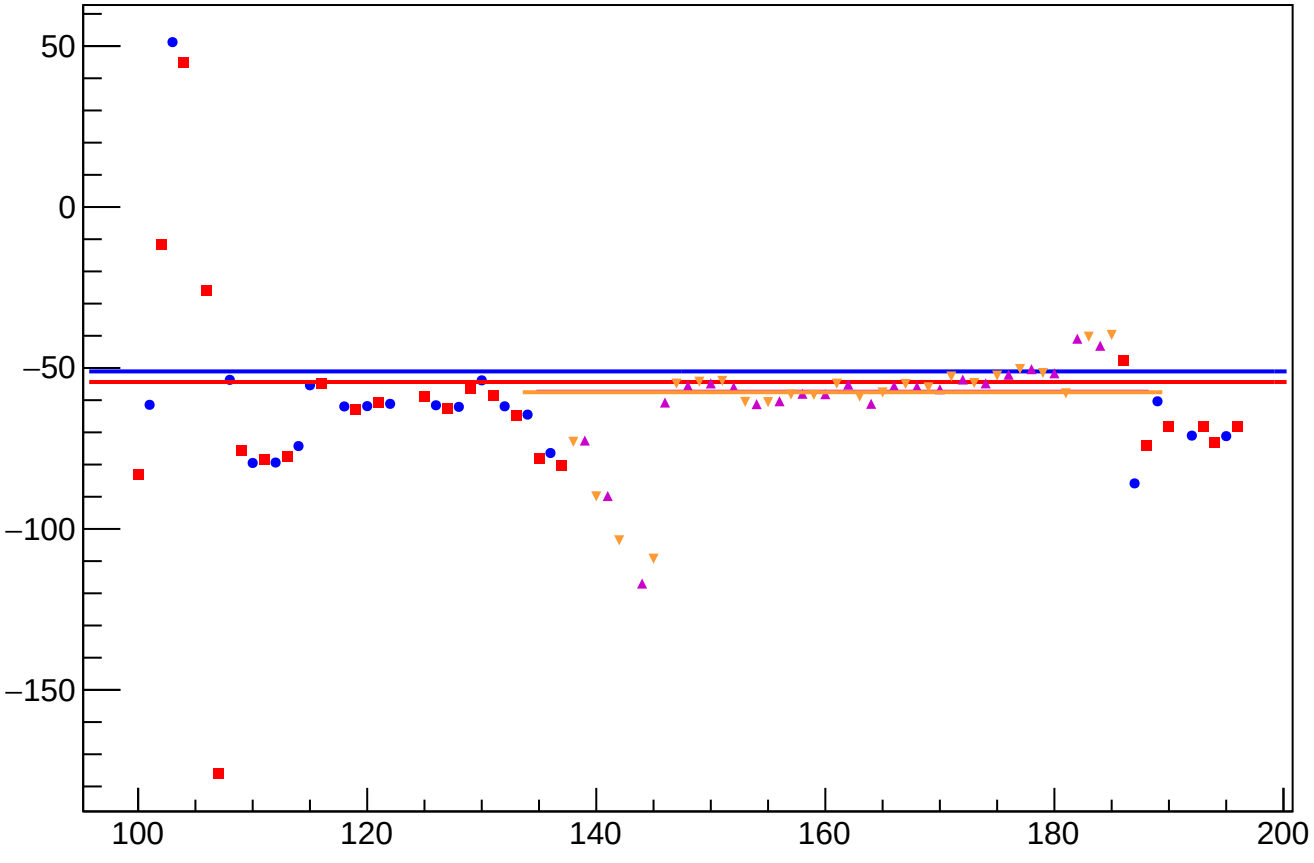
Right: -24.240+/-0.656 $\chi^2$/NDF: 1815.3/43

In: -4.675+/-0.478 $\chi^2$/NDF:2341.5/42

Out: -3.986+/-0.465 $\chi^2$/NDF:2381.3/47

All: -4.321+/-0.333 $\chi^2$/NDF: 4723.9/90

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -51.063+/-0.052 $\chi^2$/NDF: 619041.6/19

Left Out: -57.532+/-0.025 $\chi^2$/NDF:267030.7/23

Right Out: -54.356+/-0.049 $\chi^2$/NDF: 549452.1/23

Left In: -57.377+/-0.025 $\chi^2$/NDF:227136.8/22

Left: -57.455+/-0.018 $\chi^2$/NDF: 494187.3/46

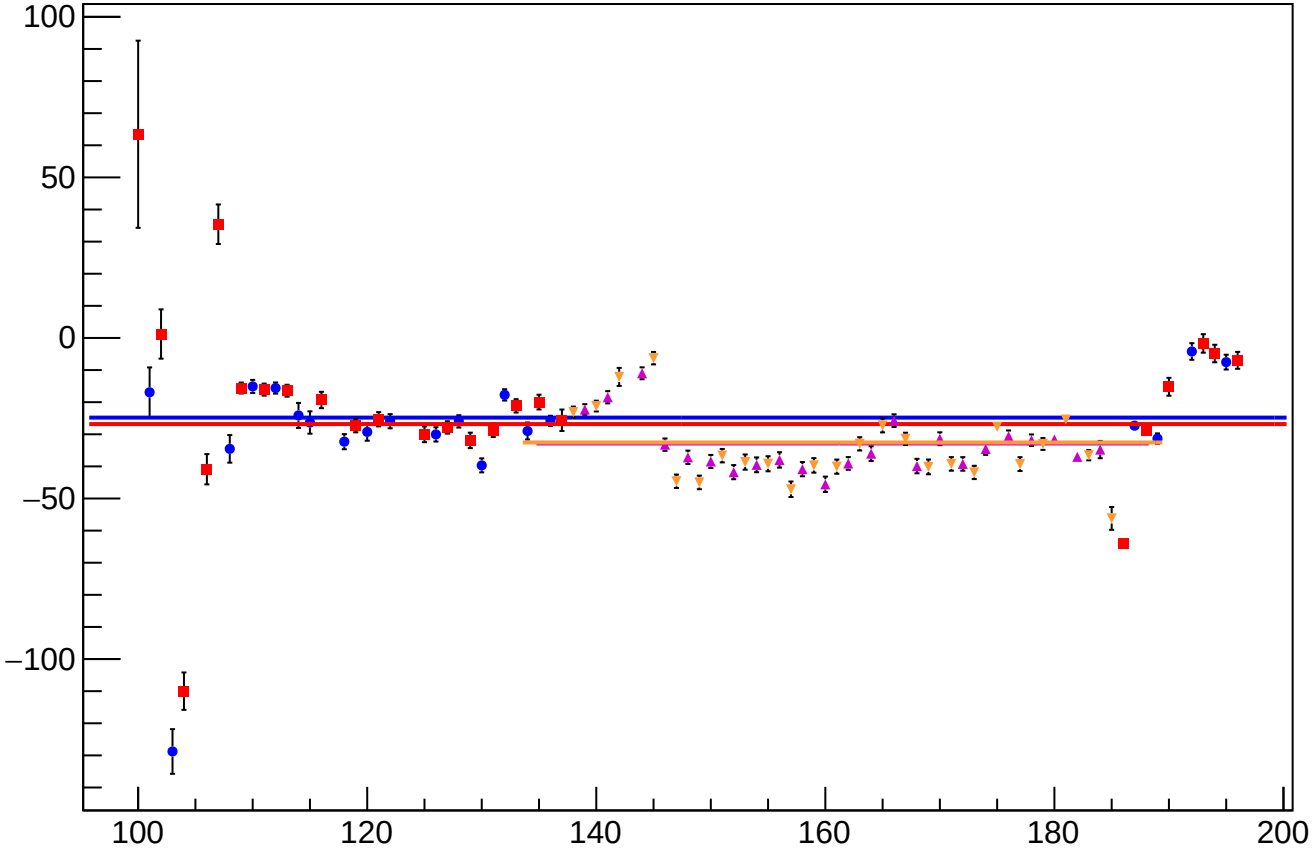
Right: -52.803+/-0.036 $\chi^2$/NDF: 1170596.3/43

In: -56.217+/-0.022 $\chi^2$/NDF:858122.8/42

Out: -56.893+/-0.022 $\chi^2$/NDF:819794.4/47

All: -56.559+/-0.016 $\chi^2$/NDF: 1678377.8/90

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -24.810+/-0.495 $\chi^2$/NDF: 504.2/19

Left Out: -32.549+/-0.407 $\chi^2$/NDF:603.6/23

Right Out: -26.820+/-0.431 $\chi^2$/NDF: 1386.4/23

Left In: -32.867+/-0.411 $\chi^2$/NDF:373.2/22

Left: -32.706+/-0.289 $\chi^2$/NDF: 977.1/46

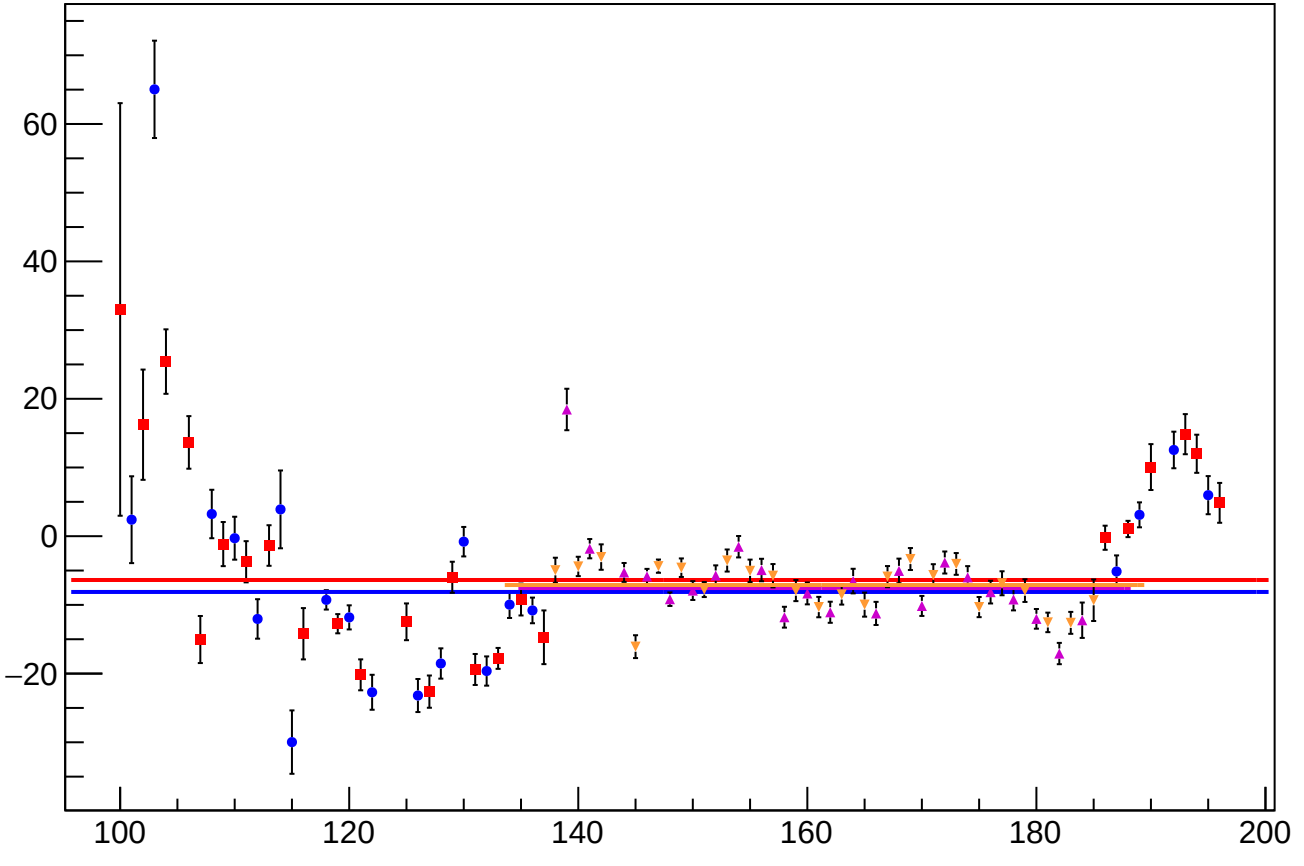
Right: -25.953+/-0.325 $\chi^2$/NDF: 1900.0/43

In: -29.578+/-0.316 $\chi^2$/NDF:1034.0/42

Out: -29.854+/-0.296 $\chi^2$/NDF:2083.4/47

All: -29.726+/-0.216 $\chi^2$/NDF: 3117.8/90

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -8.118+/-0.532 $\chi^2$/NDF: 424.1/19

Left Out: -7.110+/-0.309 $\chi^2$/NDF:109.5/23

Right Out: -6.376+/-0.488 $\chi^2$/NDF: 494.4/23

Left In: -7.547+/-0.315 $\chi^2$/NDF:199.7/22

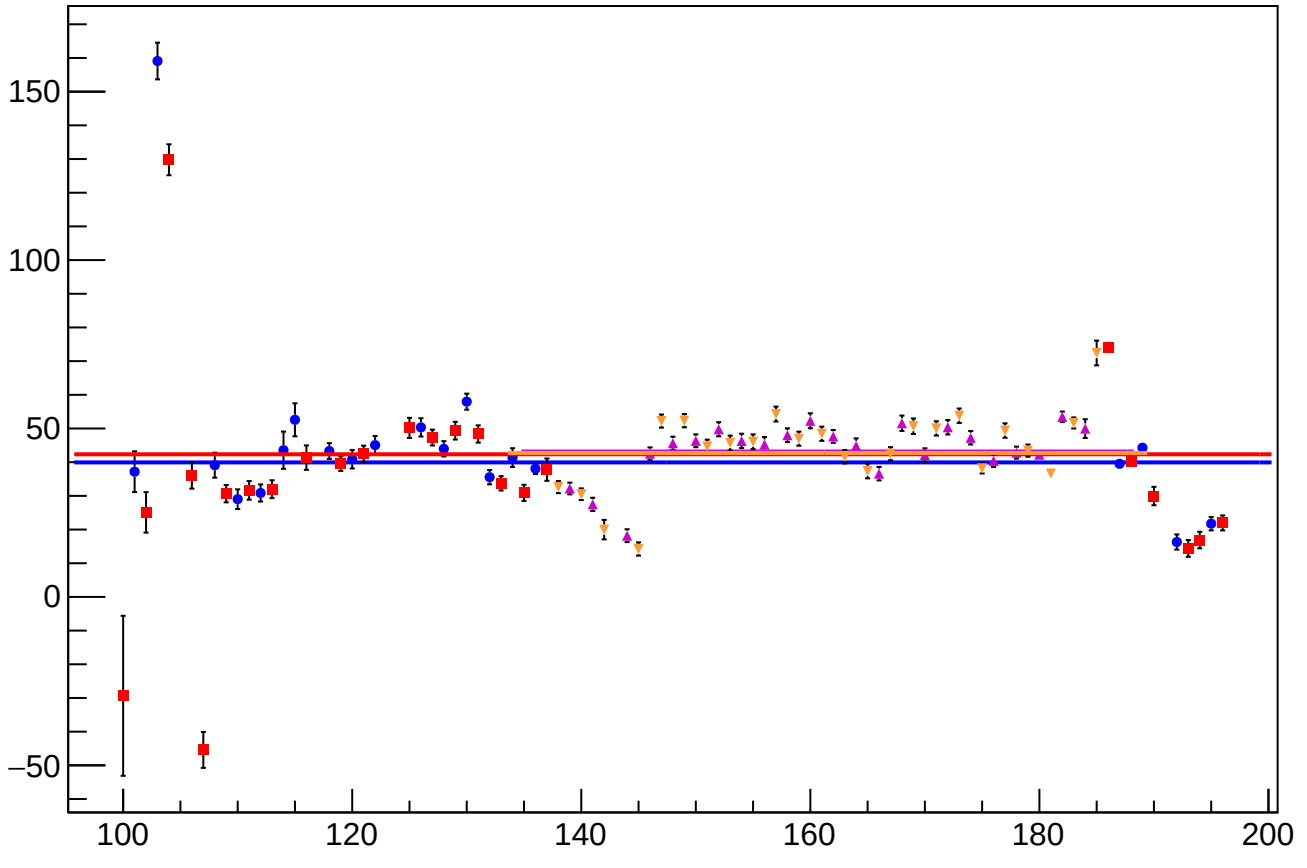
Left: -7.324+/-0.221 $\chi^2$/NDF: 310.2/46

Right: -7.172+/-0.359 $\chi^2$/NDF: 924.3/43

In: -7.695+/-0.271 $\chi^2$/NDF:624.6/42

Out: -6.899+/-0.261 $\chi^2$/NDF:605.5/47

All: -7.282+/-0.188 $\chi^2$/NDF: 1234.6/90




Right In: 39.934+/-0.507 $\chi^2$/NDF: 803.5/19

Left Out: 42.745+/-0.403 $\chi^2$/NDF:631.5/23

Right Out: 42.345+/-0.418 $\chi^2$/NDF: 1906.6/23

Left In: 43.169+/-0.407 $\chi^2$/NDF:413.0/22

Left: 42.955+/-0.287 $\chi^2$/NDF: 1045.1/46

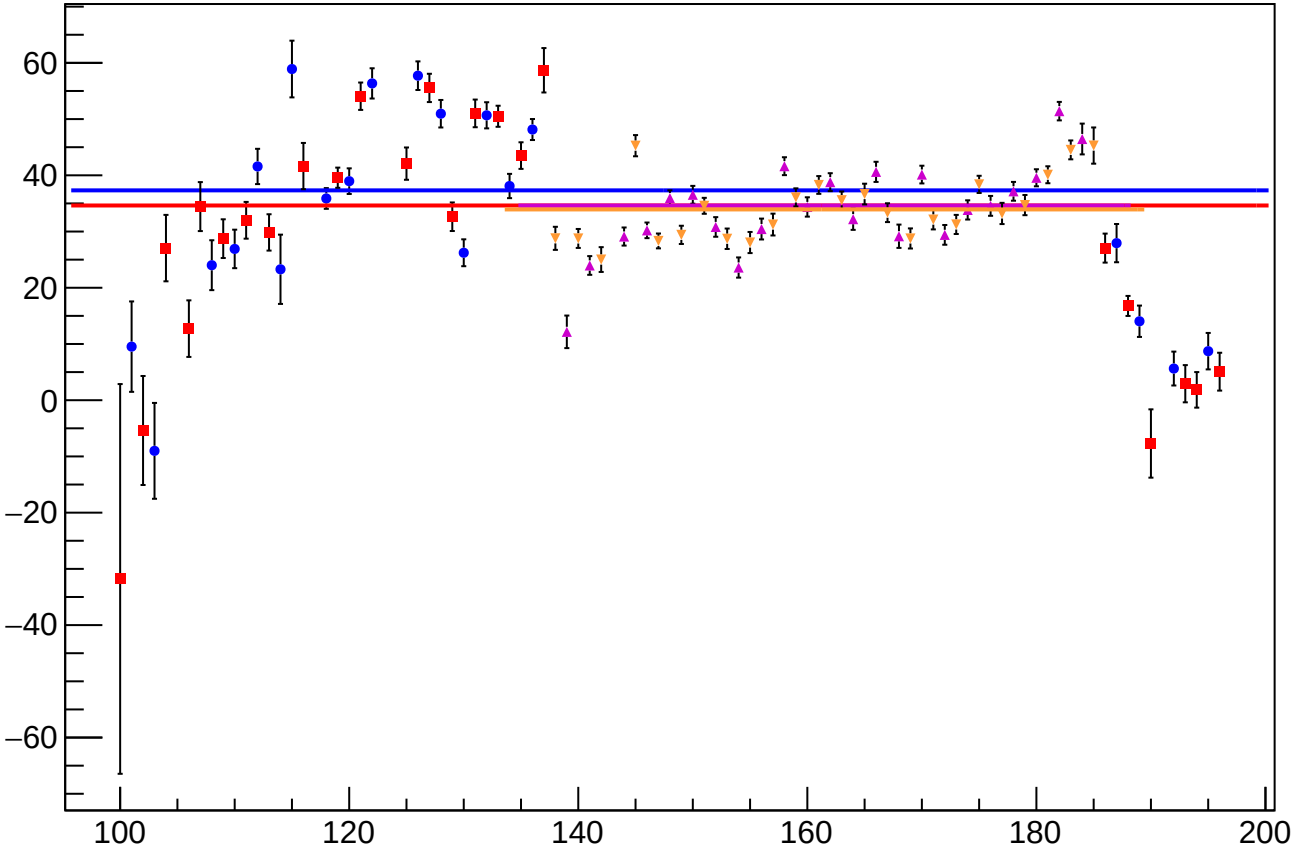
Right: 41.370+/-0.322 $\chi^2$/NDF: 2723.6/43

In: 41.900+/-0.317 $\chi^2$/NDF:1241.3/42

Out: 42.552+/-0.290 $\chi^2$/NDF:2538.6/47

All: 42.255+/-0.214 $\chi^2$/NDF: 3782.2/90

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 37.323+/-0.625 $\chi^2$/NDF: 585.4/19

Left Out: 33.930+/-0.351 $\chi^2$/NDF:216.5/23

Right Out: 34.634+/-0.593 $\chi^2$/NDF: 799.2/23

Left In: 34.623+/-0.356 $\chi^2$/NDF:376.1/22

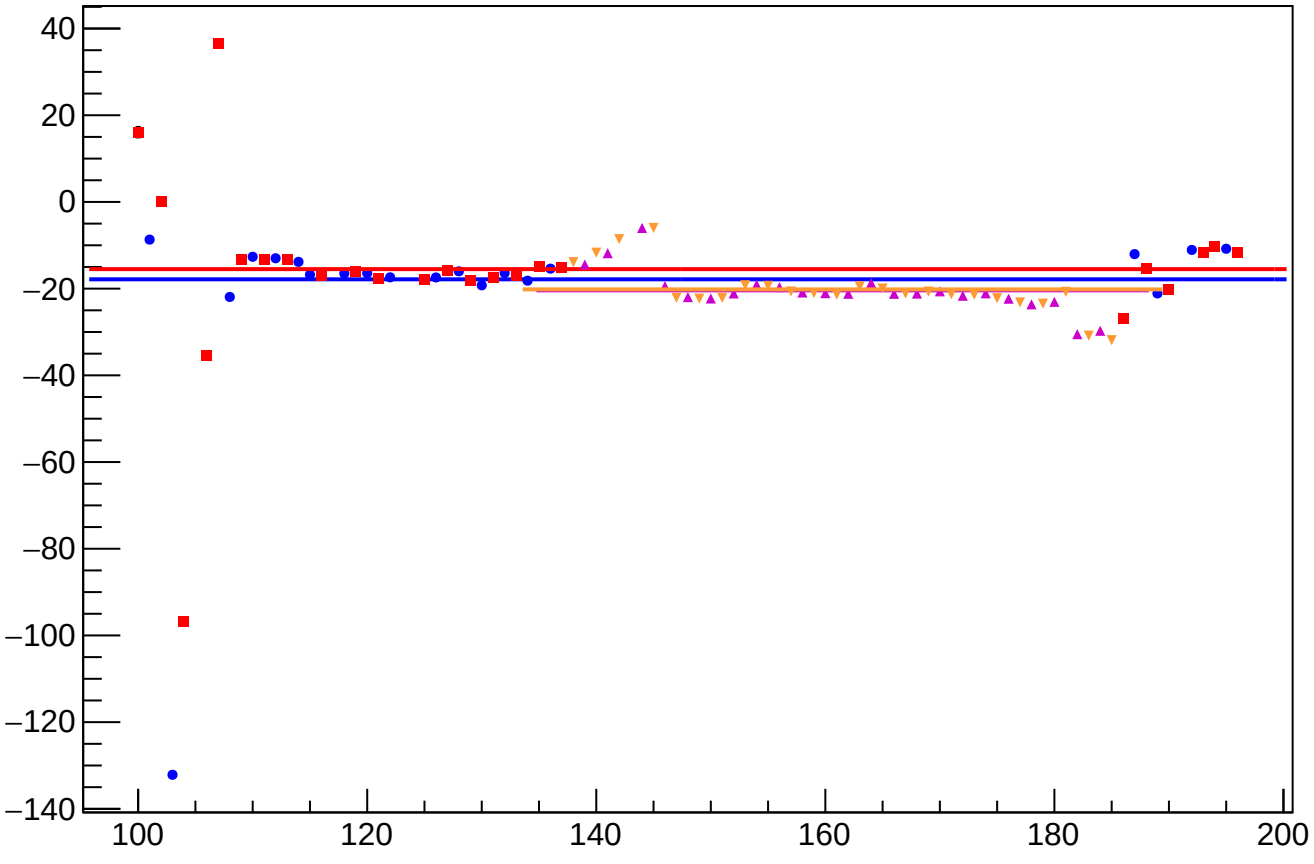
Left: 34.271+/-0.250 $\chi^2$/NDF: 594.5/46

Right: 35.908+/-0.430 $\chi^2$/NDF: 1394.3/43

In: 35.285+/-0.309 $\chi^2$/NDF:975.6/42

Out: 34.113+/-0.302 $\chi^2$/NDF:1016.7/47

All: 34.684+/-0.216 $\chi^2$/NDF: 1999.7/90




Right In: -17.851+/-0.034 $\chi^2$/NDF: 261086.4/19

Left Out: -20.174+/-0.016 $\chi^2$/NDF:99947.2/23

Right Out: -15.497+/-0.032 $\chi^2$/NDF: 216587.9/23

Left In: -20.396+/-0.016 $\chi^2$/NDF:81154.4/22

Left: -20.285+/-0.011 $\chi^2$/NDF: 181200.8/46

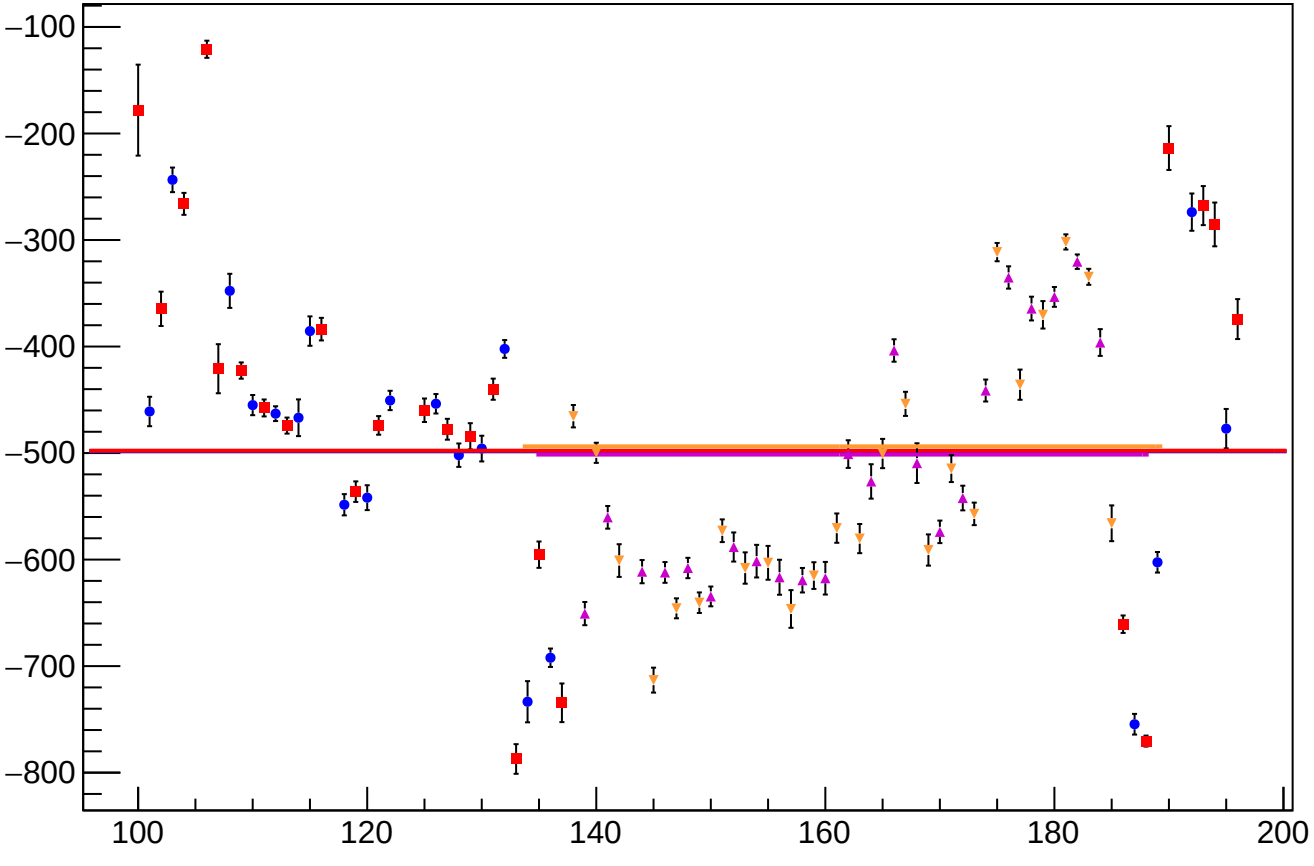
Right: -16.601+/-0.023 $\chi^2$/NDF: 480228.1/43

In: -19.943+/-0.014 $\chi^2$/NDF:346865.2/42

Out: -19.255+/-0.014 $\chi^2$/NDF:333816.5/47

All: -19.595+/-0.010 $\chi^2$/NDF: 681854.7/90

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -498.342+/-2.413 $\chi^2$/NDF: 2554.1/19

Left Out: -493.722+/-2.295 $\chi^2$/NDF:3150.0/23

Right Out: -497.780+/-2.096 $\chi^2$/NDF: 7502.8/23

Left In: -501.425+/-2.306 $\chi^2$/NDF:2689.3/22

Left: -497.555+/-1.627 $\chi^2$/NDF: 5844.9/46

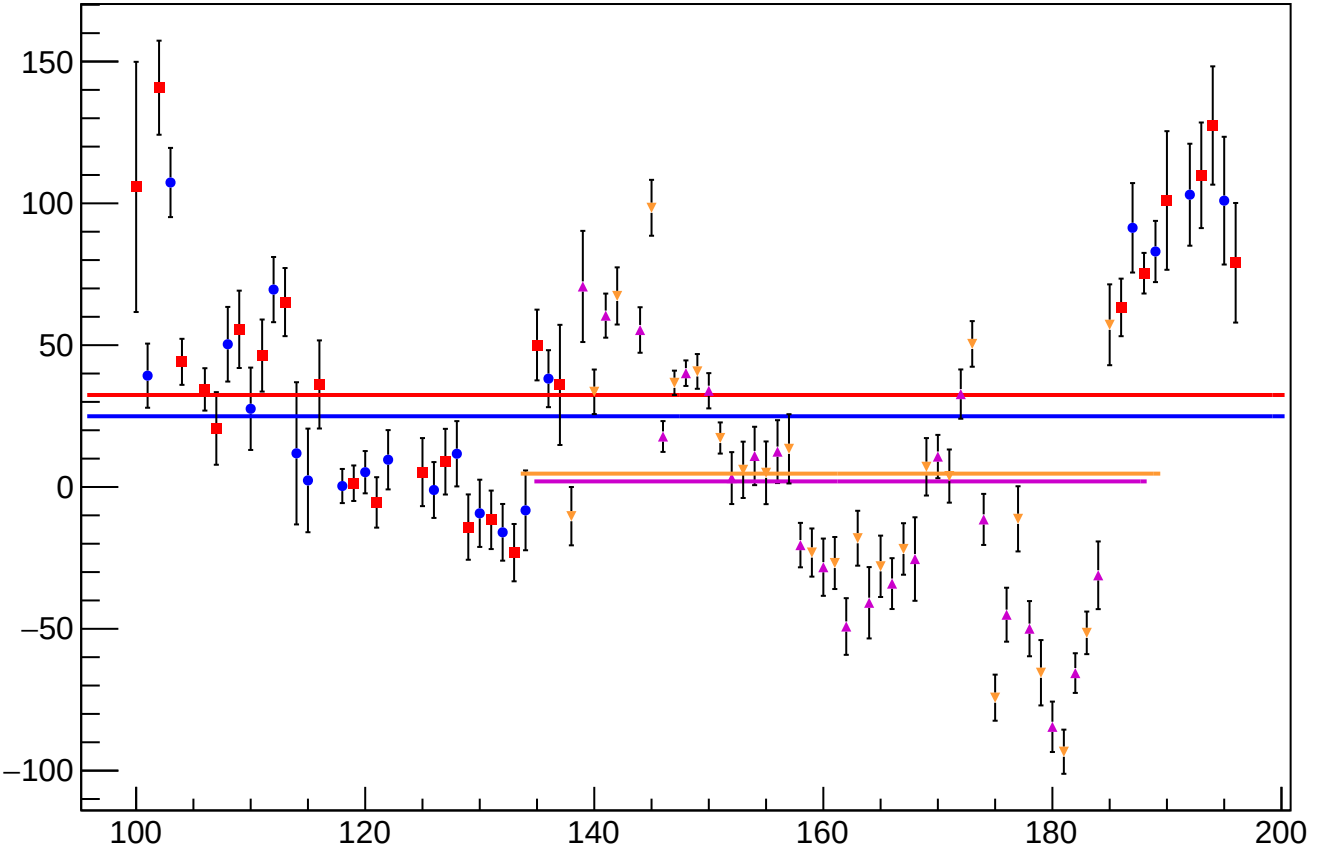
Right: -498.022+/-1.582 $\chi^2$/NDF: 10057.0/43

In: -499.953+/-1.667 $\chi^2$/NDF:5244.2/42

Out: -495.935+/-1.548 $\chi^2$/NDF:10654.5/47

All: -497.795+/-1.134 $\chi^2$/NDF: 15901.9/90

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 24.935+/-2.503 $\chi^2$/NDF: 211.4/19

Left Out: 4.709+/-1.696 $\chi^2$/NDF:680.3/23

Right Out: 32.434+/-2.280 $\chi^2$/NDF: 275.0/23

Left In: 1.970+/-1.722 $\chi^2$/NDF:560.8/22

Left: 3.360+/-1.208 $\chi^2$/NDF: 1242.4/46

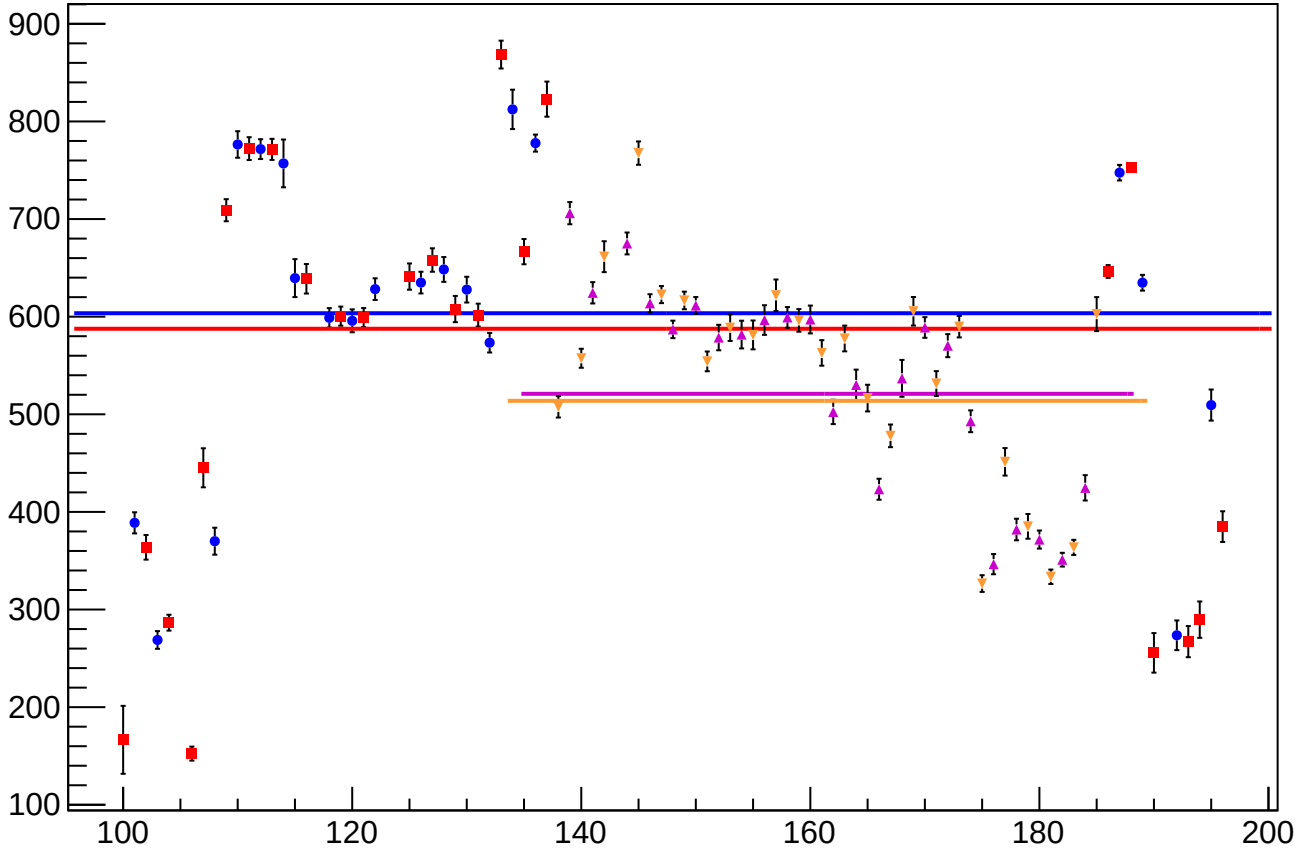
Right: 29.033+/-1.686 $\chi^2$/NDF: 491.3/43

In: 9.347+/-1.419 $\chi^2$/NDF:829.4/42

Out: 14.581+/-1.361 $\chi^2$/NDF:1050.5/47

All: 12.073+/-0.982 $\chi^2$/NDF: 1887.0/90

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 603.536+/-2.533 $\chi^2$/NDF: 3913.6/19

Left Out: 513.833+/-2.277 $\chi^2$/NDF:2735.5/23

Right Out: 587.647+/-2.097 $\chi^2$/NDF: 9652.5/23

Left In: 520.990+/-2.283 $\chi^2$/NDF:2442.8/22

Left: 517.401+/-1.612 $\chi^2$/NDF: 5183.2/46

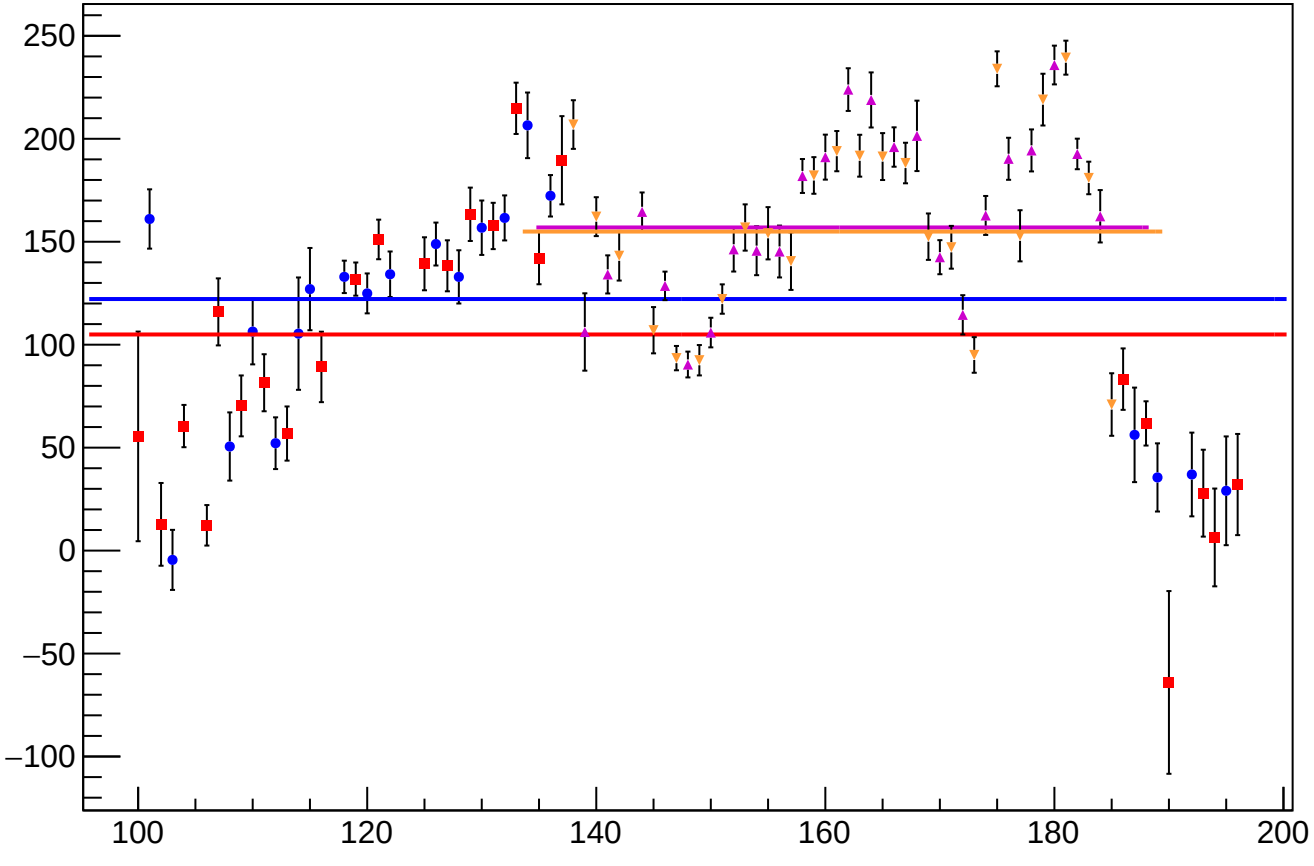
Right: 594.109+/-1.615 $\chi^2$/NDF: 13589.4/43

In: 557.995+/-1.696 $\chi^2$/NDF:6942.3/42

Out: 553.771+/-1.542 $\chi^2$/NDF:12956.7/47

All: 555.683+/-1.141 $\chi^2$/NDF: 19902.3/90

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 122.175+/-2.952 $\chi^2$/NDF: 282.7/19

Left Out: 154.944+/-1.953 $\chi^2$/NDF:609.0/23

Right Out: 104.962+/-2.750 $\chi^2$/NDF: 417.4/23

Left In: 156.934+/-1.971 $\chi^2$/NDF:443.2/22

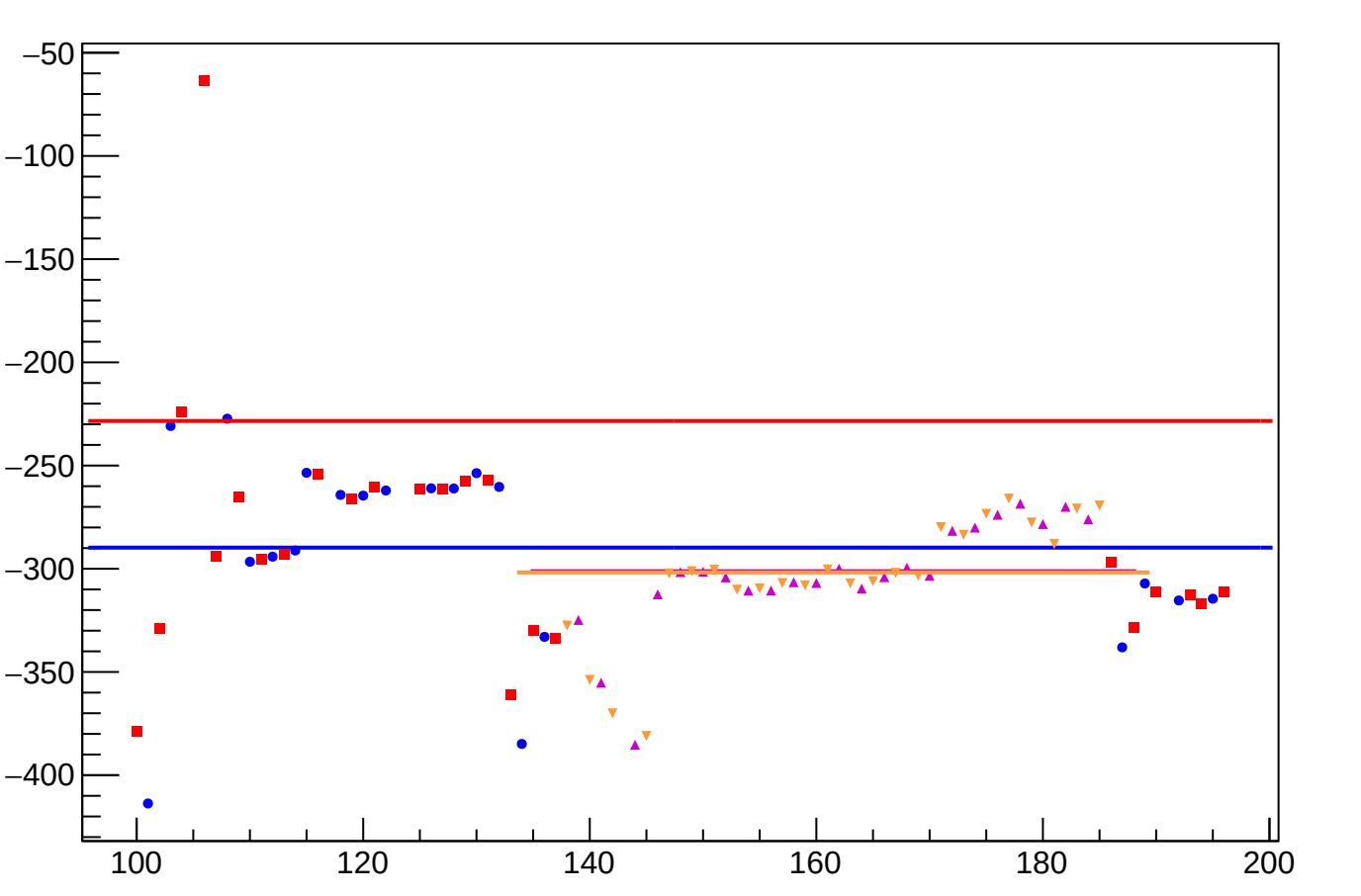
Left: 155.930+/-1.387 $\chi^2$/NDF: 1052.7/46

Right: 112.959+/-2.012 $\chi^2$/NDF: 718.3/43

In: 146.214+/-1.639 $\chi^2$/NDF:821.8/42

Out: 138.185+/-1.592 $\chi^2$/NDF:1246.0/47

All: 142.083+/-1.142 $\chi^2$/NDF: 2080.1/90




Right In: -289.762+/-0.162 $\chi^2$/NDF: 109615.0/19

Left Out: -301.785+/-0.091 $\chi^2$/NDF:86719.4/23

Right Out: -228.398+/-0.134 $\chi^2$/NDF: 638087.2/23

Left In: -301.176+/-0.090 $\chi^2$/NDF:75325.3/22

Left: -301.478+/-0.064 $\chi^2$/NDF: 162067.4/46

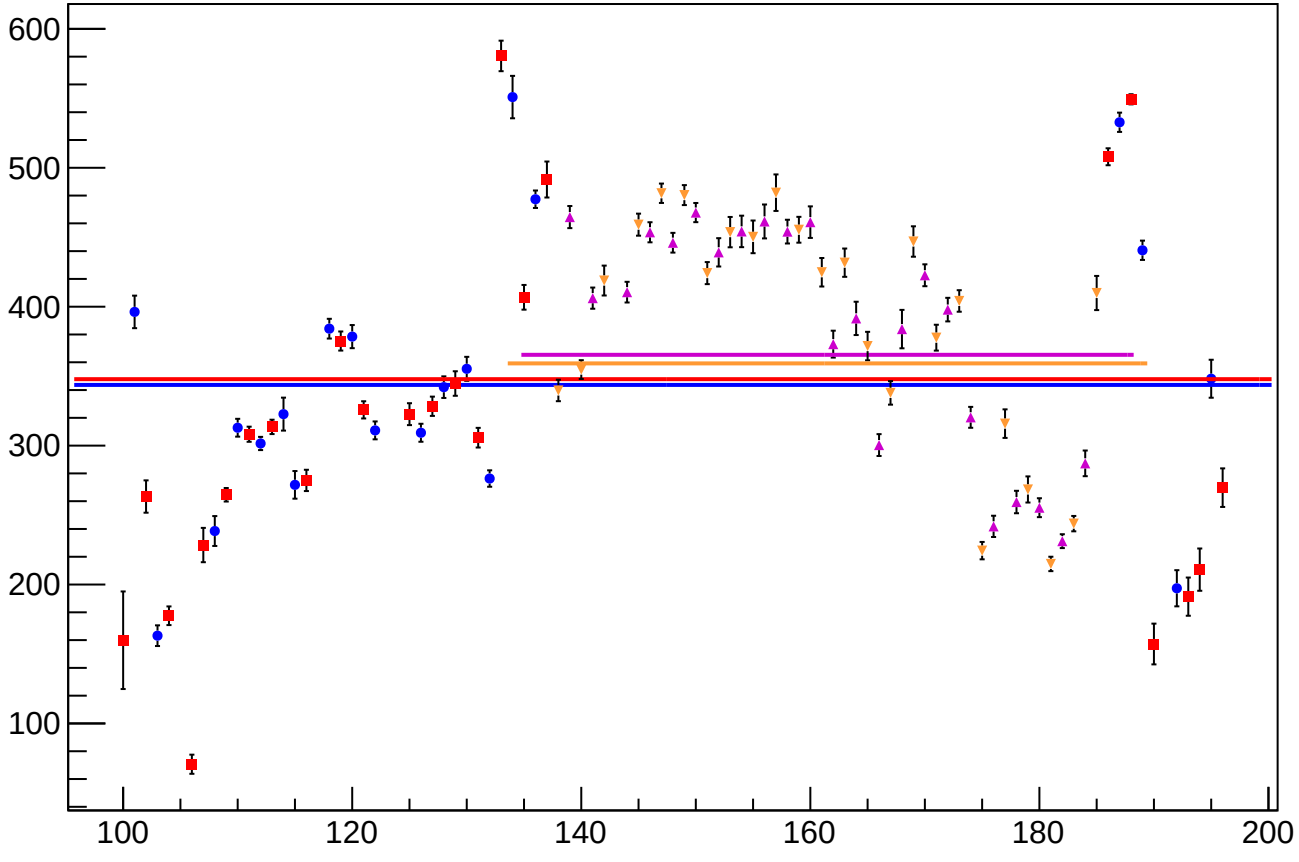
Right: -253.279+/-0.103 $\chi^2$/NDF: 832698.0/43

In: -298.490+/-0.079 $\chi^2$/NDF:188722.9/42

Out: -278.702+/-0.075 $\chi^2$/NDF:930317.2/47

All: -288.140+/-0.054 $\chi^2$/NDF: 1152091.1/90

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 343.702+/-1.708 $\chi^2$/NDF: 2796.4/19

Left Out: 359.188+/-1.681 $\chi^2$/NDF:3187.9/23

Right Out: 347.834+/-1.485 $\chi^2$/NDF: 7763.8/23

Left In: 365.362+/-1.692 $\chi^2$/NDF:2739.5/22

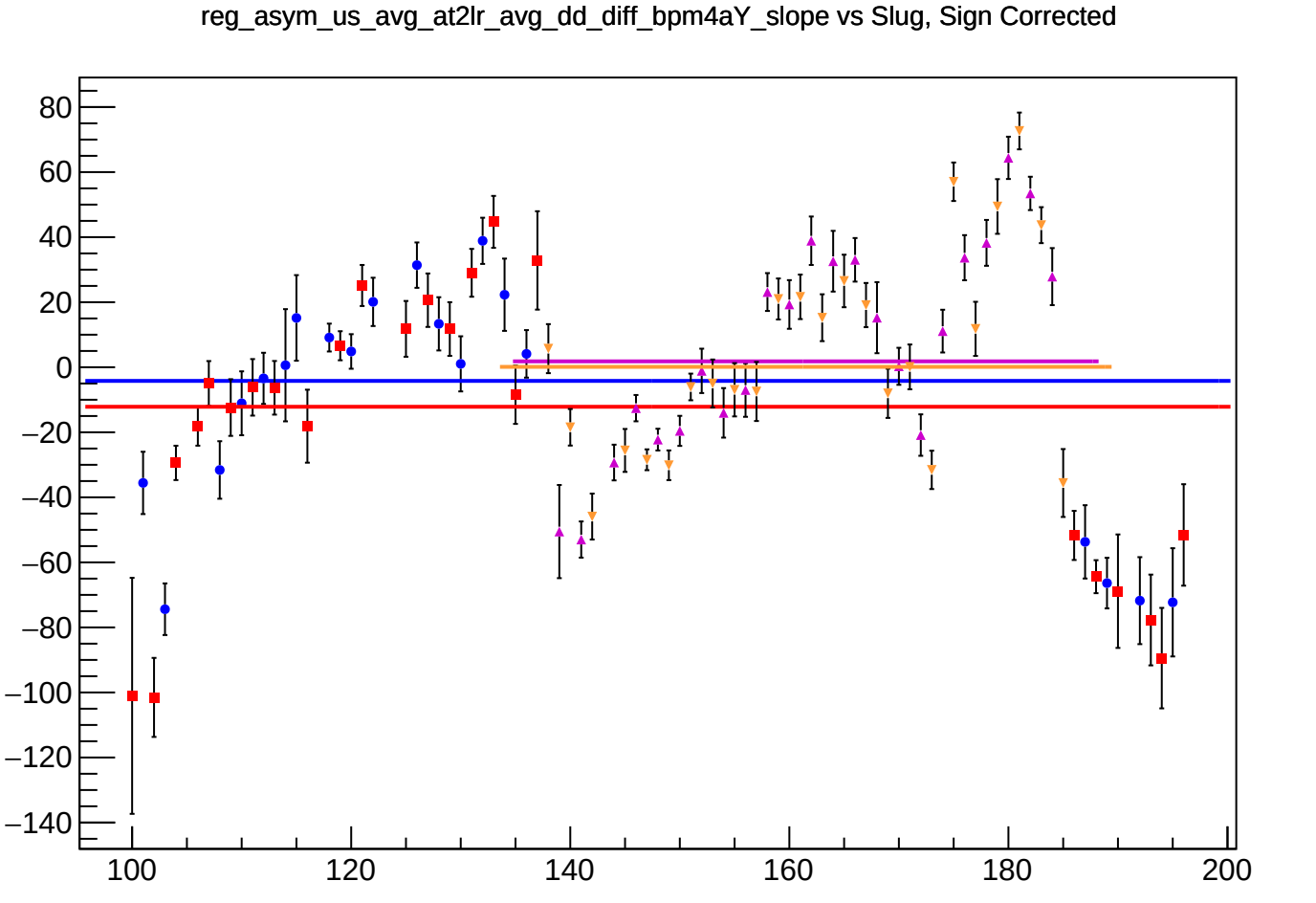
Left: 362.254+/-1.193 $\chi^2$/NDF: 5934.1/46

Right: 346.056+/-1.120 $\chi^2$/NDF: 10563.6/43

In: 354.631+/-1.202 $\chi^2$/NDF:5617.0/42

Out: 352.809+/-1.113 $\chi^2$/NDF:10977.4/47

All: 353.650+/-0.817 $\chi^2$/NDF: 16595.7/90




Right In: -4.205+/-1.788 $\chi^2$/NDF: 324.9/19

Left Out: 0.114+/-1.247 $\chi^2$/NDF:637.9/23

Right Out: -12.155+/-1.612 $\chi^2$/NDF: 447.5/23

Left In: 1.812+/-1.267 $\chi^2$/NDF:577.0/22

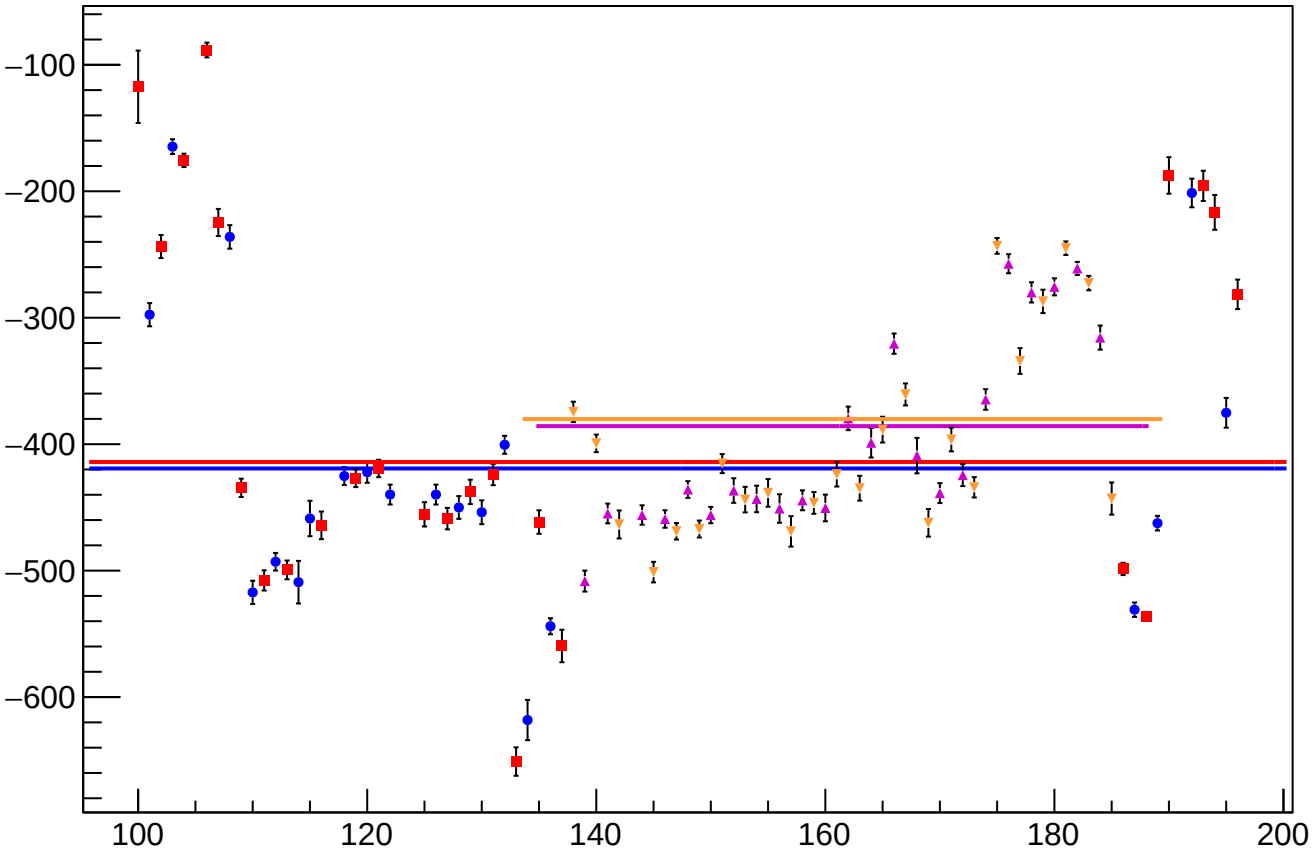
Left: 0.950+/-0.889 $\chi^2$/NDF: 1215.9/46

Right: -8.590+/-1.197 $\chi^2$/NDF: 783.2/43

In: -0.199+/-1.034 $\chi^2$/NDF:909.4/42

Out: -4.479+/-0.986 $\chi^2$/NDF:1121.6/47

All: -2.439+/-0.714 $\chi^2$/NDF: 2040.0/90




Right In: -419.216+/-1.802 $\chi^2$/NDF: 4136.3/19

Left Out: -380.144+/-1.670 $\chi^2$/NDF:2618.6/23

Right Out: -414.069+/-1.494 $\chi^2$/NDF: 9836.1/23

Left In: -385.725+/-1.677 $\chi^2$/NDF:2361.2/22

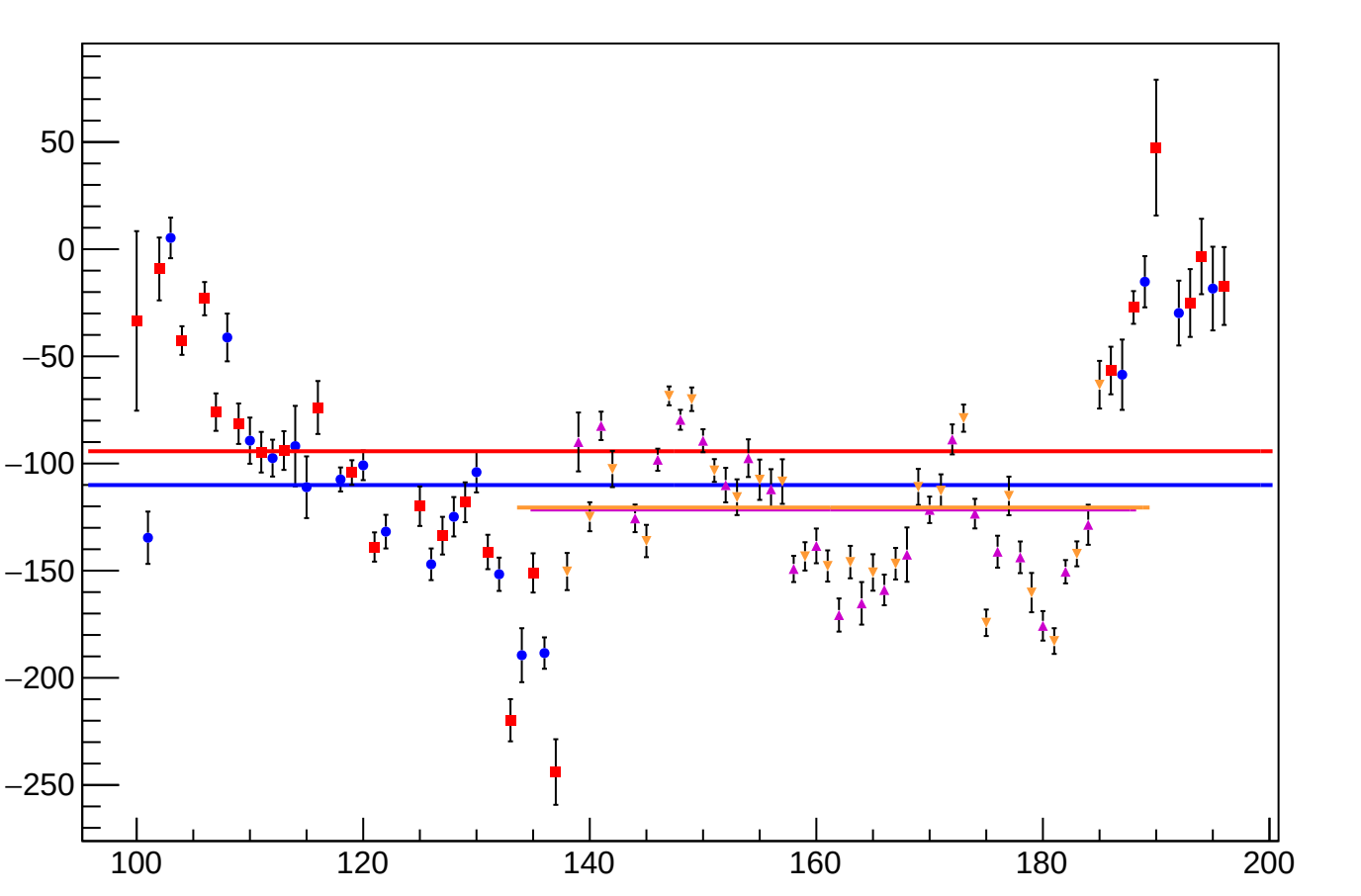
Left: -382.922+/-1.183 $\chi^2$/NDF: 4985.4/46

Right: -416.166+/-1.150 $\chi^2$/NDF: 13977.3/43

In: -401.272+/-1.227 $\chi^2$/NDF:6682.7/42

Out: -398.986+/-1.113 $\chi^2$/NDF:12684.0/47

All: -400.018+/-0.825 $\chi^2$/NDF: 19368.6/90




Right In: -110.051+/-2.106 $\chi^2$/NDF: 541.0/19

Left Out: -120.541+/-1.435 $\chi^2$/NDF:611.5/23

Right Out: -94.271+/-1.941 $\chi^2$/NDF: 773.1/23

Left In: -121.453+/-1.450 $\chi^2$/NDF:432.6/22

Left: -120.992+/-1.020 $\chi^2$/NDF: 1044.3/46

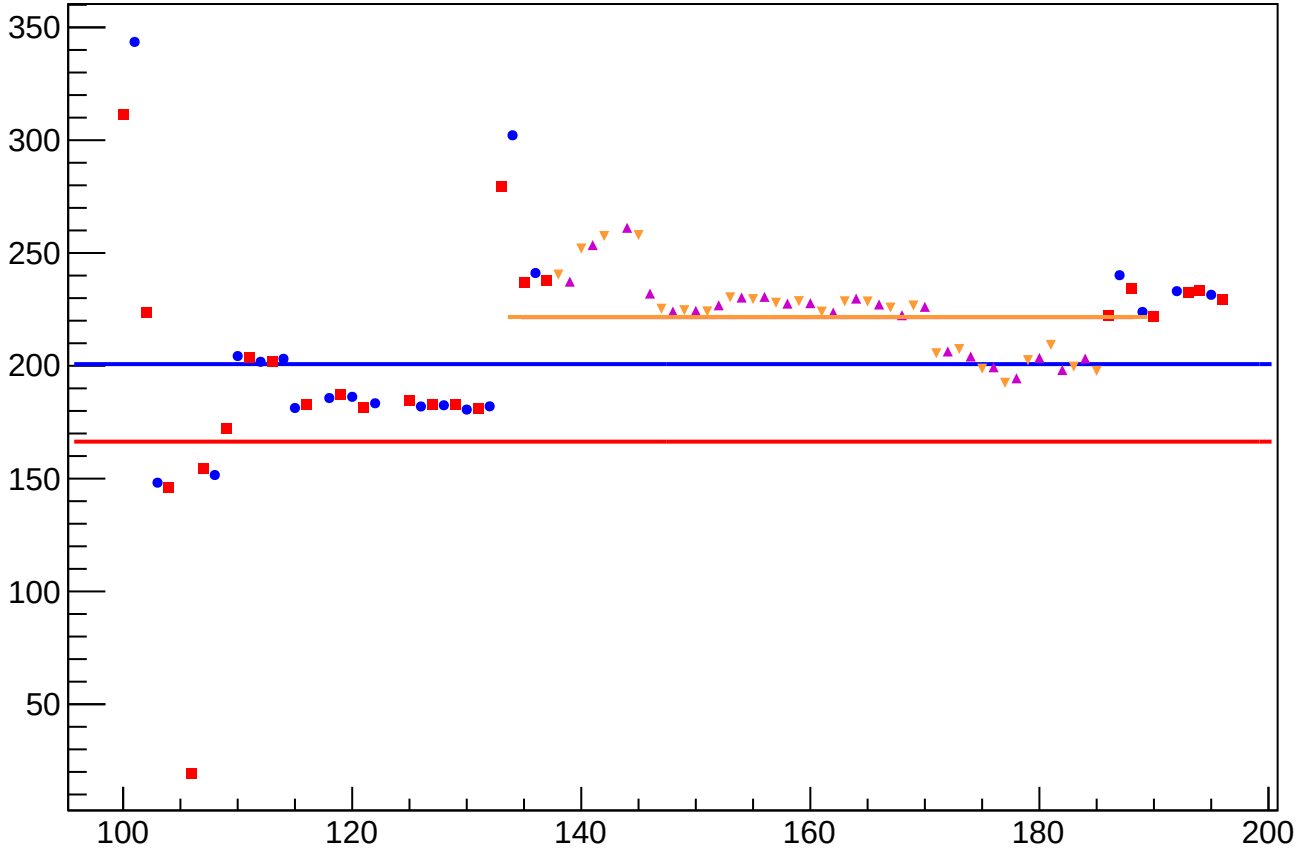
Right: -101.519+/-1.428 $\chi^2$/NDF: 1344.4/43

In: -117.788+/-1.194 $\chi^2$/NDF:993.5/42

Out: -111.257+/-1.154 $\chi^2$/NDF:1503.0/47

All: -114.411+/-0.830 $\chi^2$/NDF: 2512.0/90

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 200.750+/-0.115 $\chi^2$/NDF: 189609.1/19

Left Out: 221.652+/-0.067 $\chi^2$/NDF:67213.0/23

Right Out: 166.393+/-0.099 $\chi^2$/NDF: 602133.7/23

Left In: 221.574+/-0.066 $\chi^2$/NDF:62122.0/22

Left: 221.612+/-0.047 $\chi^2$/NDF: 129335.7/46

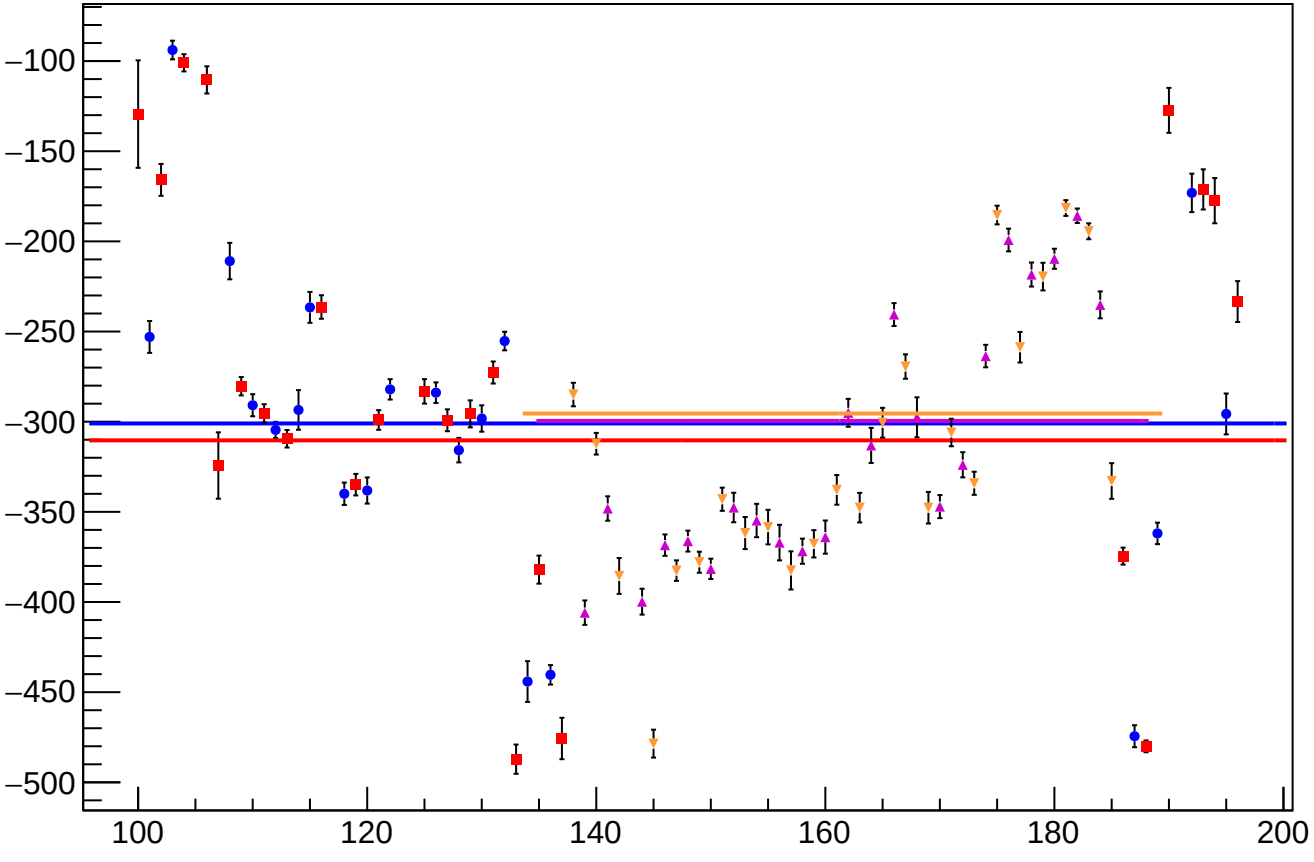
Right: 181.056+/-0.075 $\chi^2$/NDF: 843109.7/43

In: 216.374+/-0.057 $\chi^2$/NDF:276429.5/42

Out: 204.416+/-0.055 $\chi^2$/NDF:883581.8/47

All: 210.178+/-0.040 $\chi^2$/NDF: 1182537.6/90

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -300.975+/-1.480 $\chi^2$/NDF: 3822.2/19

Left Out: -295.464+/-1.393 $\chi^2$/NDF:3346.3/23

Right Out: -310.357+/-1.311 $\chi^2$/NDF: 7342.9/23

Left In: -299.588+/-1.397 $\chi^2$/NDF:2971.7/22

Left: -297.520+/-0.986 $\chi^2$/NDF: 6322.4/46

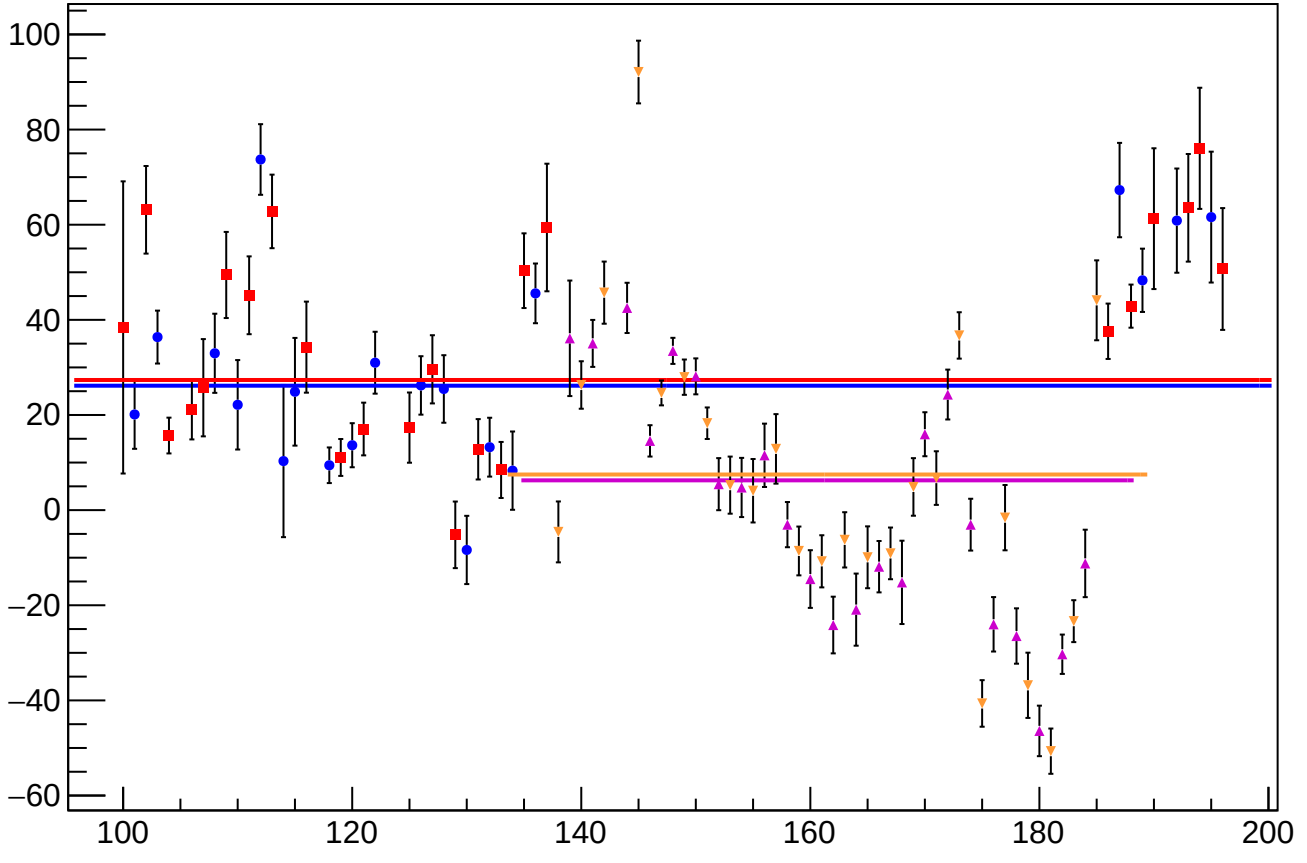
Right: -306.233+/-0.981 $\chi^2$/NDF: 11187.6/43

In: -300.241+/-1.016 $\chi^2$/NDF:6794.4/42

Out: -303.363+/-0.954 $\chi^2$/NDF:10749.9/47

All: -301.899+/-0.696 $\chi^2$/NDF: 17549.3/90

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 26.157+/-1.530 $\chi^2$/NDF: 161.5/19

Left Out: 7.486+/-1.030 $\chi^2$/NDF:738.5/23

Right Out: 27.357+/-1.402 $\chi^2$/NDF: 180.9/23

Left In: 6.259+/-1.045 $\chi^2$/NDF:559.4/22

Left: 6.881+/-0.733 $\chi^2$/NDF: 1298.6/46

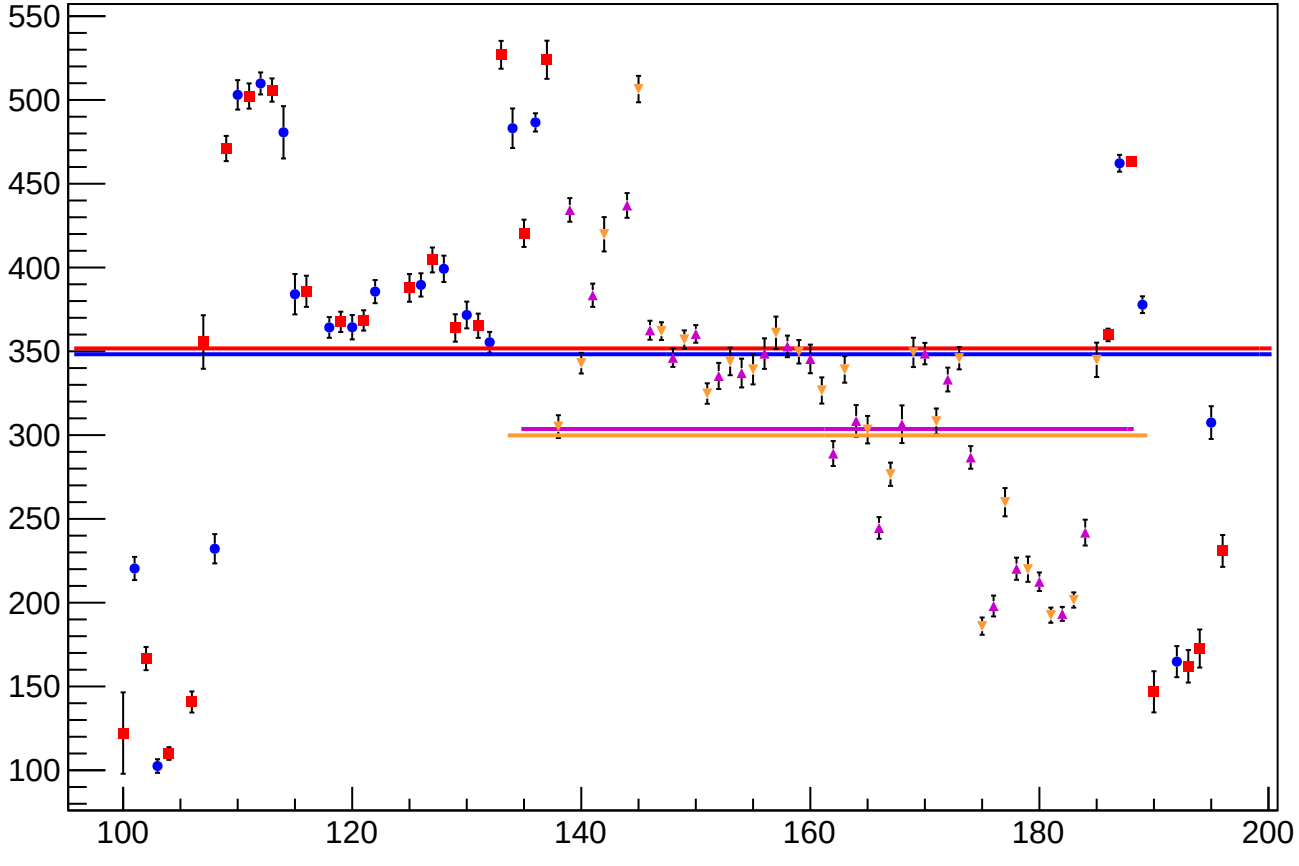
Right: 26.809+/-1.034 $\chi^2$/NDF: 342.7/43

In: 12.587+/-0.863 $\chi^2$/NDF:836.2/42

Out: 14.447+/-0.830 $\chi^2$/NDF:1049.8/47

All: 13.553+/-0.598 $\chi^2$/NDF: 1888.5/90

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 348.250+/-1.527 $\chi^2$/NDF: 7032.9/19

Left Out: 299.825+/-1.381 $\chi^2$/NDF:3076.1/23

Right Out: 351.725+/-1.292 $\chi^2$/NDF: 10908.1/23

Left In: 303.652+/-1.383 $\chi^2$/NDF:2872.6/22

Left: 301.736+/-0.977 $\chi^2$/NDF: 5952.5/46

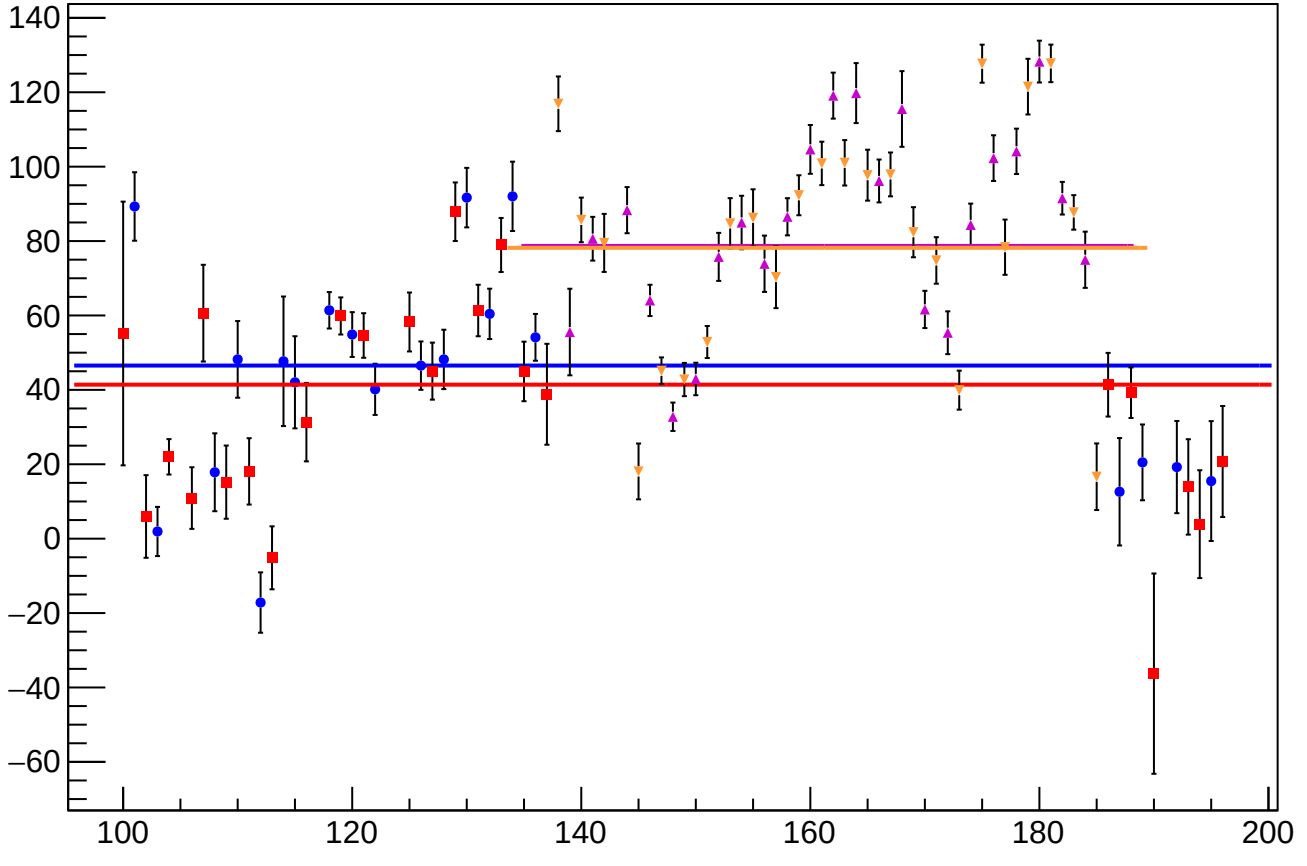
Right: 350.276+/-0.986 $\chi^2$/NDF: 17944.0/43

In: 323.744+/-1.025 $\chi^2$/NDF:10374.3/42

Out: 327.511+/-0.943 $\chi^2$/NDF:14737.5/47

All: 325.783+/-0.694 $\chi^2$/NDF: 25119.1/90

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 46.535+/-1.805 $\chi^2$/NDF: 230.3/19

Left Out: 78.181+/-1.185 $\chi^2$/NDF:663.3/23

Right Out: 41.399+/-1.692 $\chi^2$/NDF: 202.8/23

Left In: 78.689+/-1.195 $\chi^2$/NDF:488.6/22

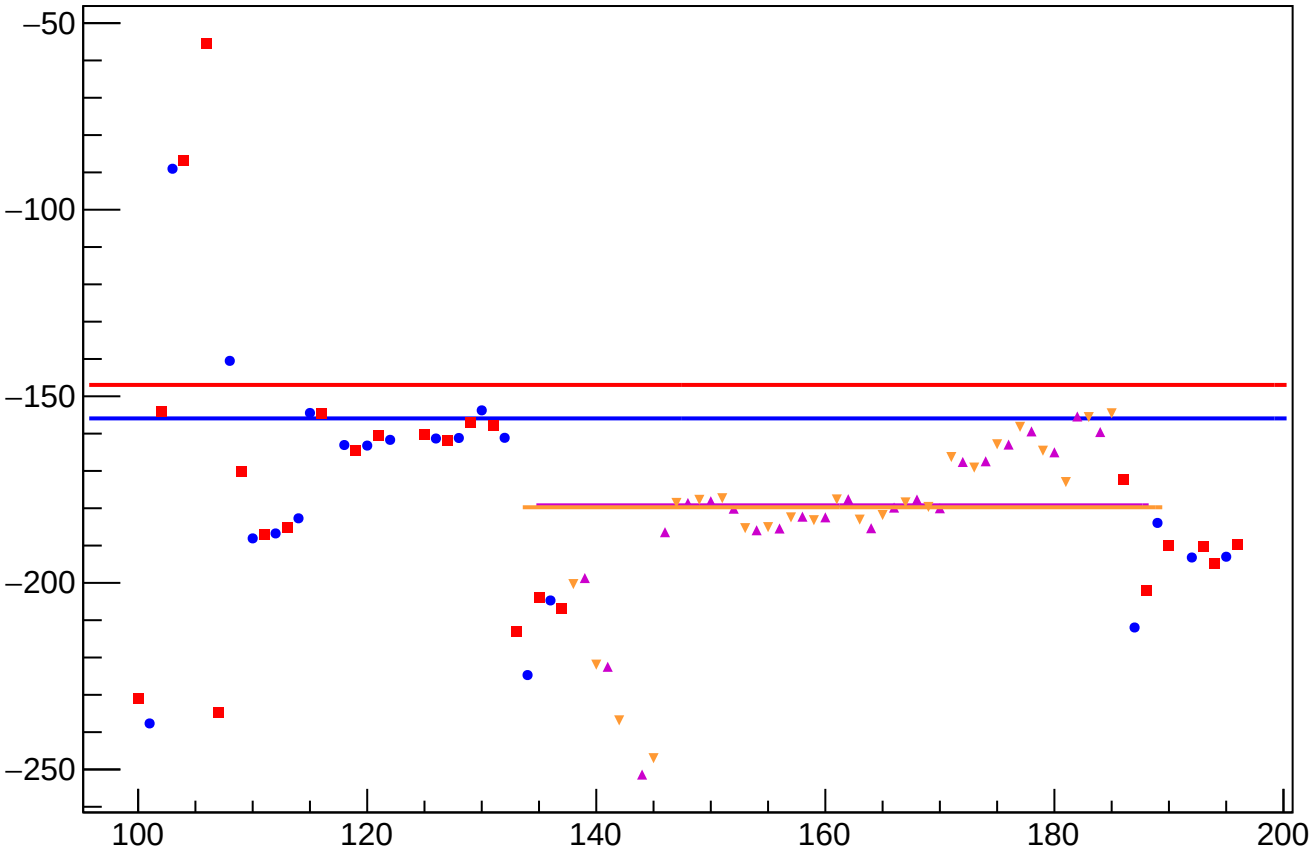
Left: 78.433+/-0.841 $\chi^2$/NDF: 1152.0/46

Right: 43.801+/-1.234 $\chi^2$/NDF: 437.5/43

In: 68.890+/-0.996 $\chi^2$/NDF:939.6/42

Out: 66.079+/-0.970 $\chi^2$/NDF:1183.4/47

All: 67.448+/-0.695 $\chi^2$/NDF: 2127.1/90




Right In: -155.924+/-0.093 $\chi^2$/NDF: 283495.3/19

Left Out: -179.738+/-0.055 $\chi^2$/NDF:132199.5/23

Right Out: -146.952+/-0.086 $\chi^2$/NDF: 390096.9/23

Left In: -179.219+/-0.055 $\chi^2$/NDF:113522.5/22

Left: -179.476+/-0.039 $\chi^2$/NDF: 245767.0/46

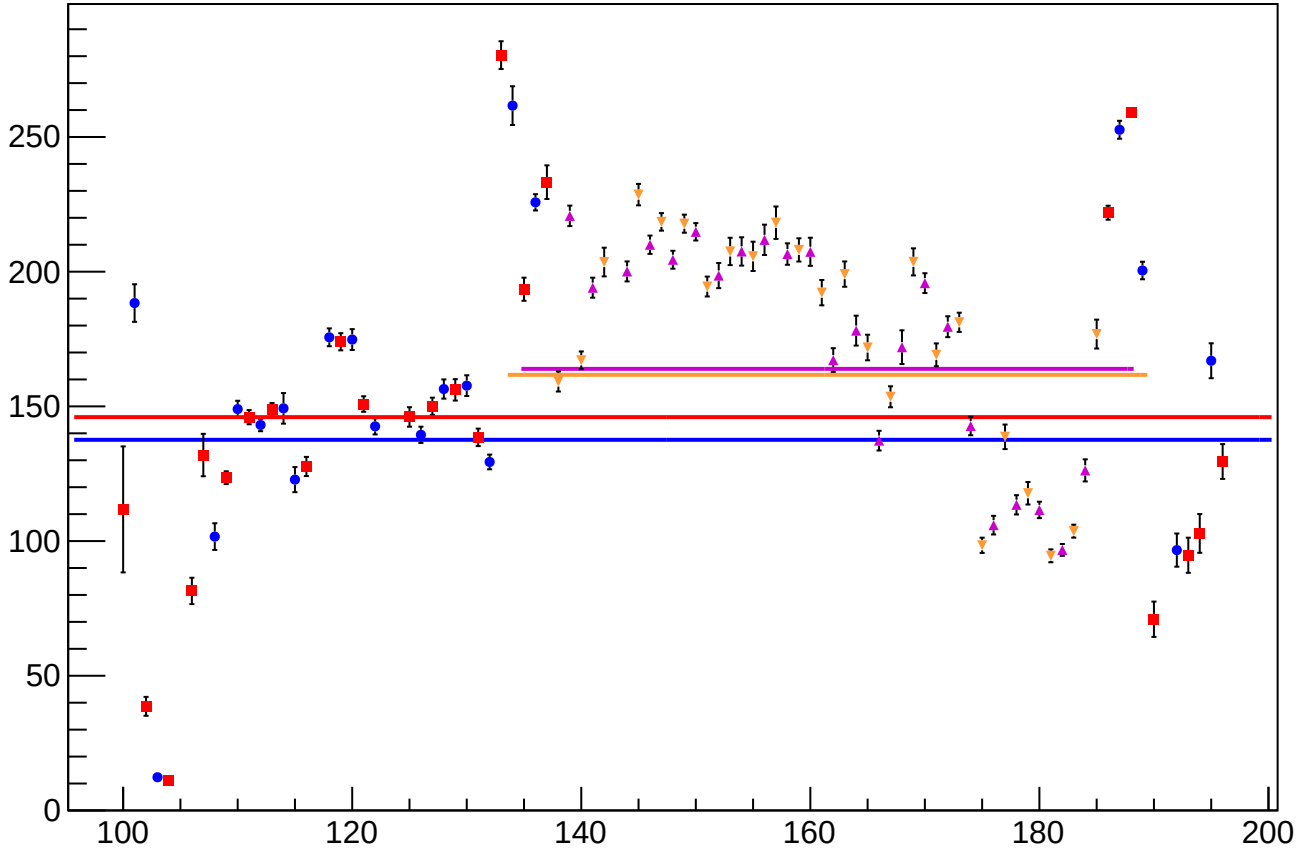
Right: -151.089+/-0.063 $\chi^2$/NDF: 678591.1/43

In: -173.277+/-0.047 $\chi^2$/NDF:443593.1/42

Out: -170.248+/-0.046 $\chi^2$/NDF:625159.0/47

All: -171.740+/-0.033 $\chi^2$/NDF: 1070854.9/90

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 137.589+/-0.755 $\chi^2$/NDF: 7966.1/19

Left Out: 161.708+/-0.776 $\chi^2$/NDF:3587.3/23

Right Out: 146.008+/-0.670 $\chi^2$/NDF: 13012.2/23

Left In: 163.927+/-0.779 $\chi^2$/NDF:3335.5/22

Left: 162.813+/-0.550 $\chi^2$/NDF: 6926.9/46

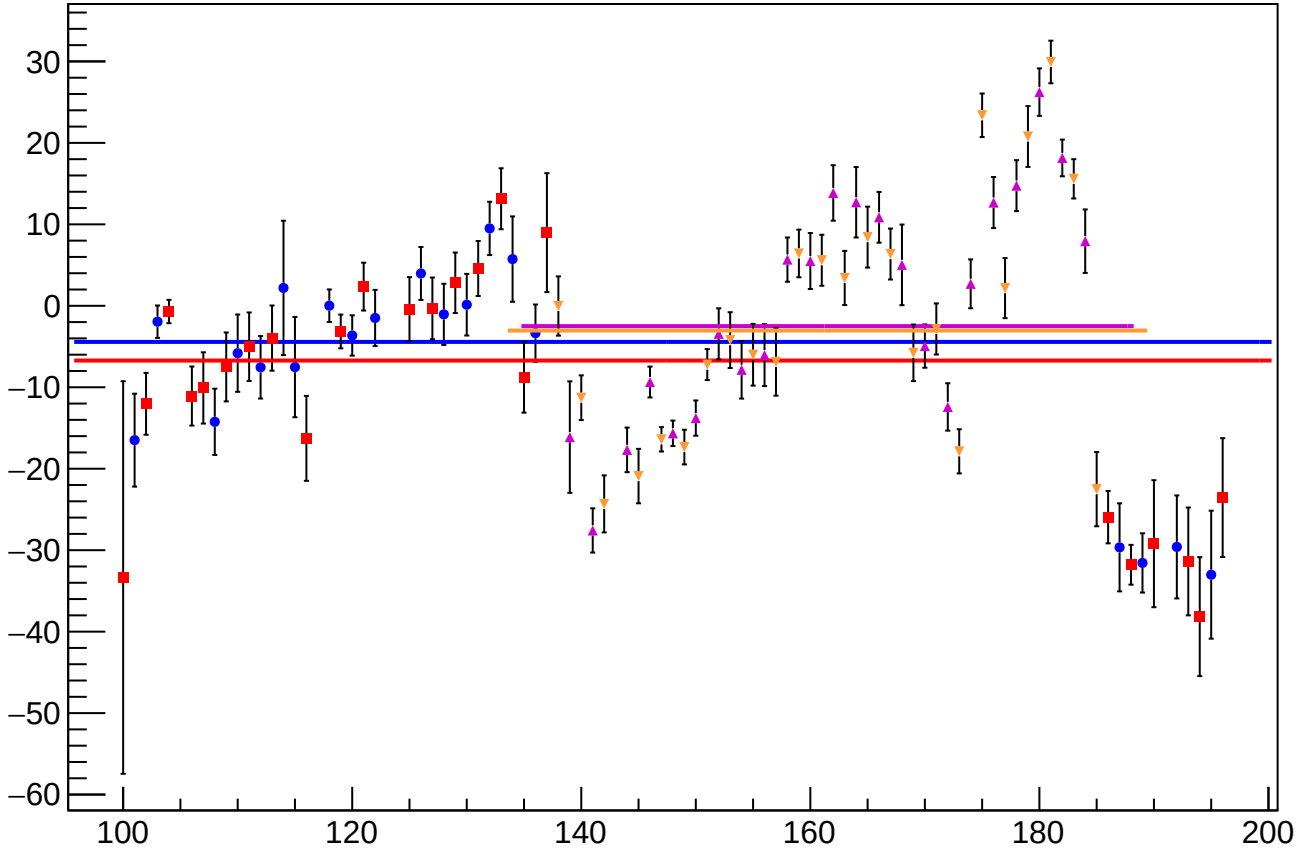
Right: 142.298+/-0.501 $\chi^2$/NDF: 21047.9/43

In: 150.335+/-0.542 $\chi^2$/NDF:11891.1/42

Out: 152.708+/-0.507 $\chi^2$/NDF:16834.1/47

All: 151.601+/-0.370 $\chi^2$/NDF: 28735.4/90

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: -4.431+/-0.792 $\chi^2$/NDF: 156.8/19

Left Out: -3.038+/-0.578 $\chi^2$/NDF:654.5/23

Right Out: -6.719+/-0.702 $\chi^2$/NDF: 283.0/23

Left In: -2.492+/-0.587 $\chi^2$/NDF:562.9/22

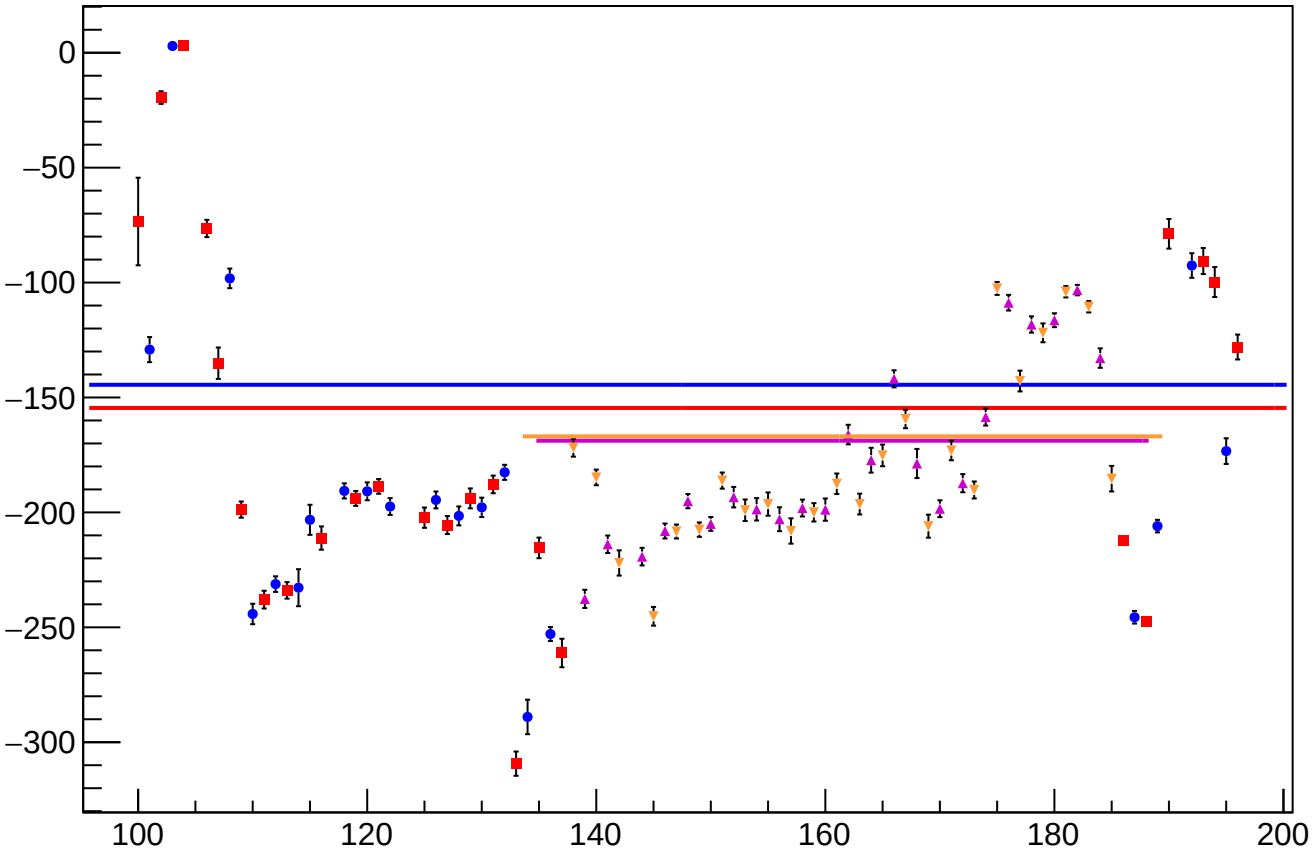
Left: -2.769+/-0.412 $\chi^2$/NDF: 1217.8/46

Right: -5.712+/-0.526 $\chi^2$/NDF: 444.5/43

In: -3.179+/-0.472 $\chi^2$/NDF:723.5/42

Out: -4.525+/-0.446 $\chi^2$/NDF:953.9/47

All: -3.889+/-0.324 $\chi^2$/NDF: 1681.7/90




Right In: -144.480+/-0.760 $\chi^2$/NDF: 17000.4/19

Left Out: -166.912+/-0.771 $\chi^2$/NDF:3096.2/23

Right Out: -154.544+/-0.651 $\chi^2$/NDF: 23524.9/23

Left In: -168.810+/-0.772 $\chi^2$/NDF:3059.5/22

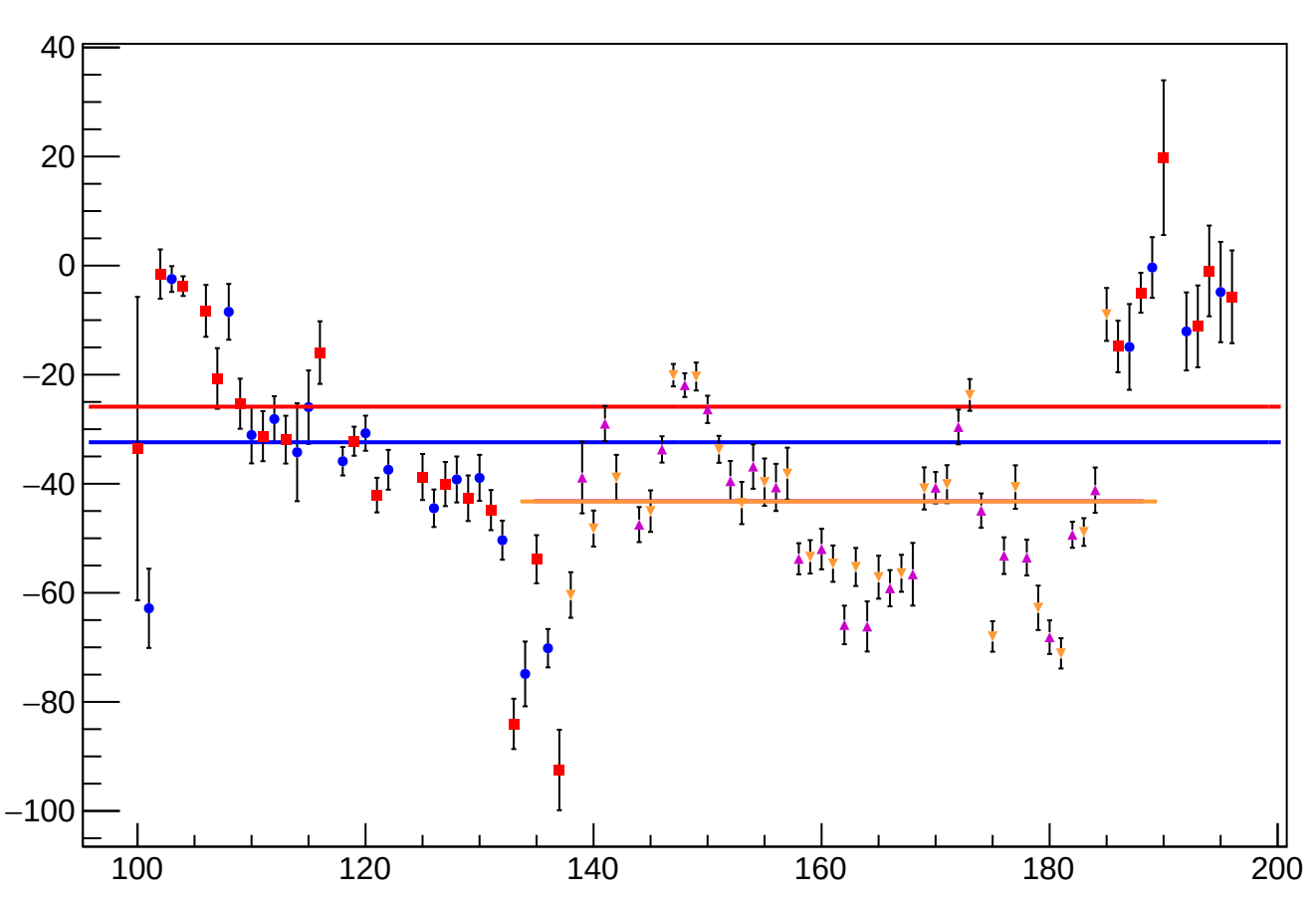
Left: -167.859+/-0.546 $\chi^2$/NDF: 6158.8/46

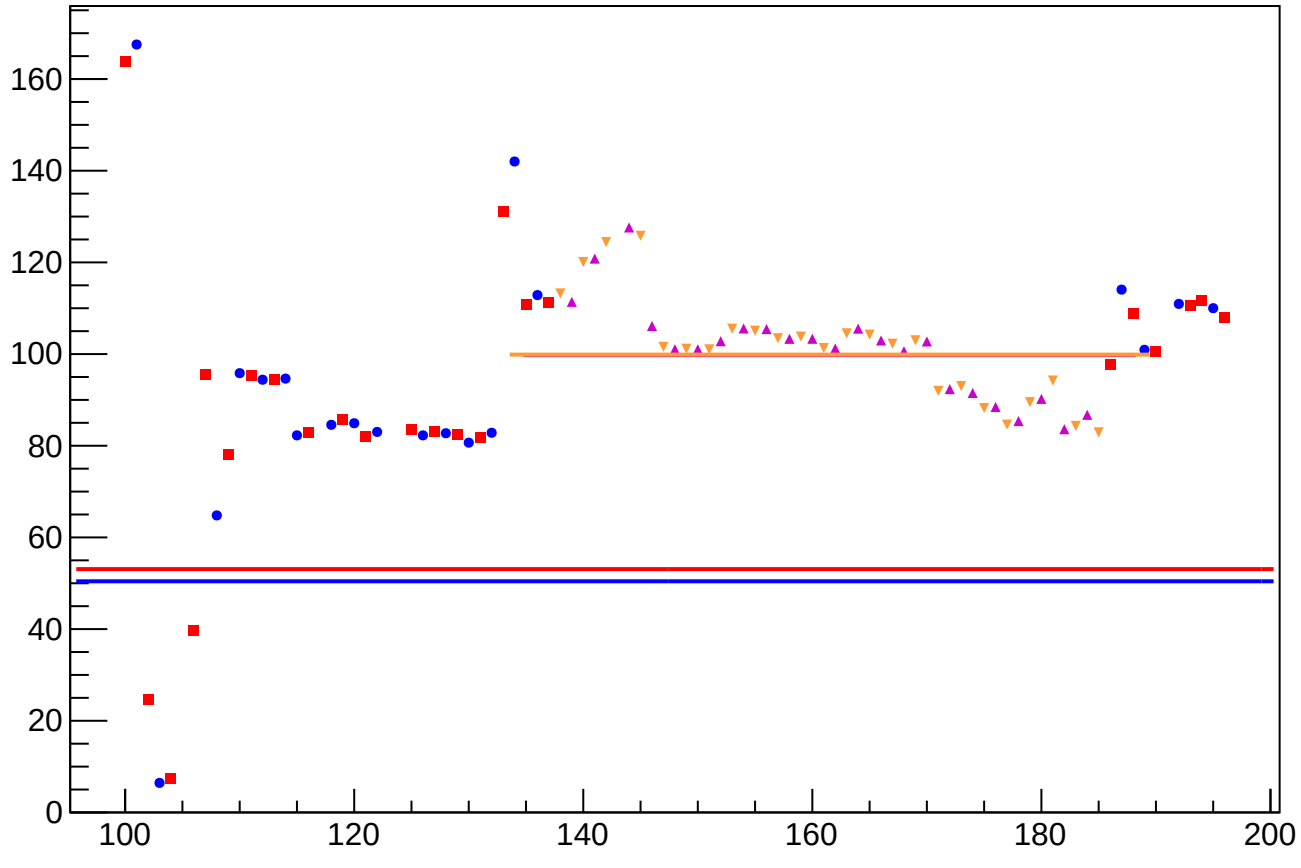
Right: -150.285+/-0.494 $\chi^2$/NDF: 40626.4/43

In: -156.449+/-0.542 $\chi^2$/NDF:20563.9/42

Out: -159.694+/-0.497 $\chi^2$/NDF:26771.4/47

All: -158.210+/-0.366 $\chi^2$/NDF: 47354.8/90


reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
40
20
0
−20
−40
−60
−80
−100
100
120
140
160
180
200
Right In: -32.391+/-0.934 χ²/NDF: 470.3/19
Left Out: -43.251+/-0.664 χ²/NDF:610.2/23
Right Out: -25.869+/-0.849 χ²/NDF: 643.3/23
Left In: -43.207+/-0.670 χ²/NDF:405.8/22
Left: -43.229+/-0.472 χ²/NDF: 1016.0/46
Right: -28.822+/-0.628 χ²/NDF: 1140.3/43
In: -39.530+/-0.544 χ²/NDF:964.7/42
Out: -36.656+/-0.523 χ²/NDF:1513.4/47
All: -38.036+/-0.377 χ²/NDF: 2492.6/90




Right In: 50.429+/-0.043 $\chi^2$/NDF: 1280747.8/19

Left Out: 99.881+/-0.031 $\chi^2$/NDF:123588.1/23

Right Out: 53.088+/-0.041 $\chi^2$/NDF: 1129118.3/23

Left In: 99.769+/-0.031 $\chi^2$/NDF:113501.0/22

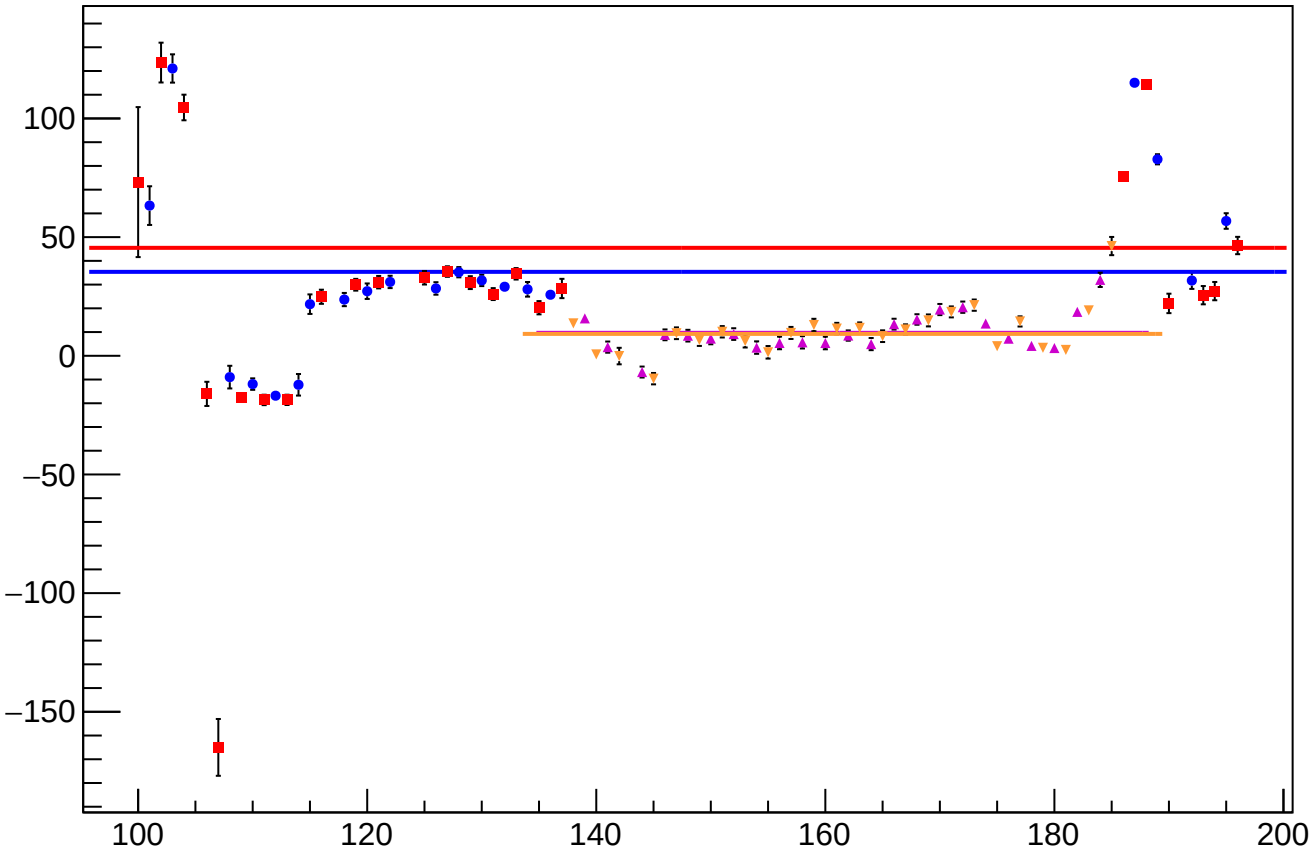
Left: 99.825+/-0.022 $\chi^2$/NDF: 237095.8/46

Right: 51.800+/-0.030 $\chi^2$/NDF: 2411864.5/43

In: 83.072+/-0.025 $\chi^2$/NDF:2276822.4/42

Out: 83.238+/-0.025 $\chi^2$/NDF:2075405.4/47

All: 83.155+/-0.018 $\chi^2$/NDF: 4352250.0/90




Right In: 35.370+/-0.601 $\chi^2$/NDF: 3688.2/19

Left Out: 9.228+/-0.456 $\chi^2$/NDF:327.5/23

Right Out: 45.488+/-0.518 $\chi^2$/NDF: 7778.4/23

Left In: 9.676+/-0.462 $\chi^2$/NDF:246.7/22

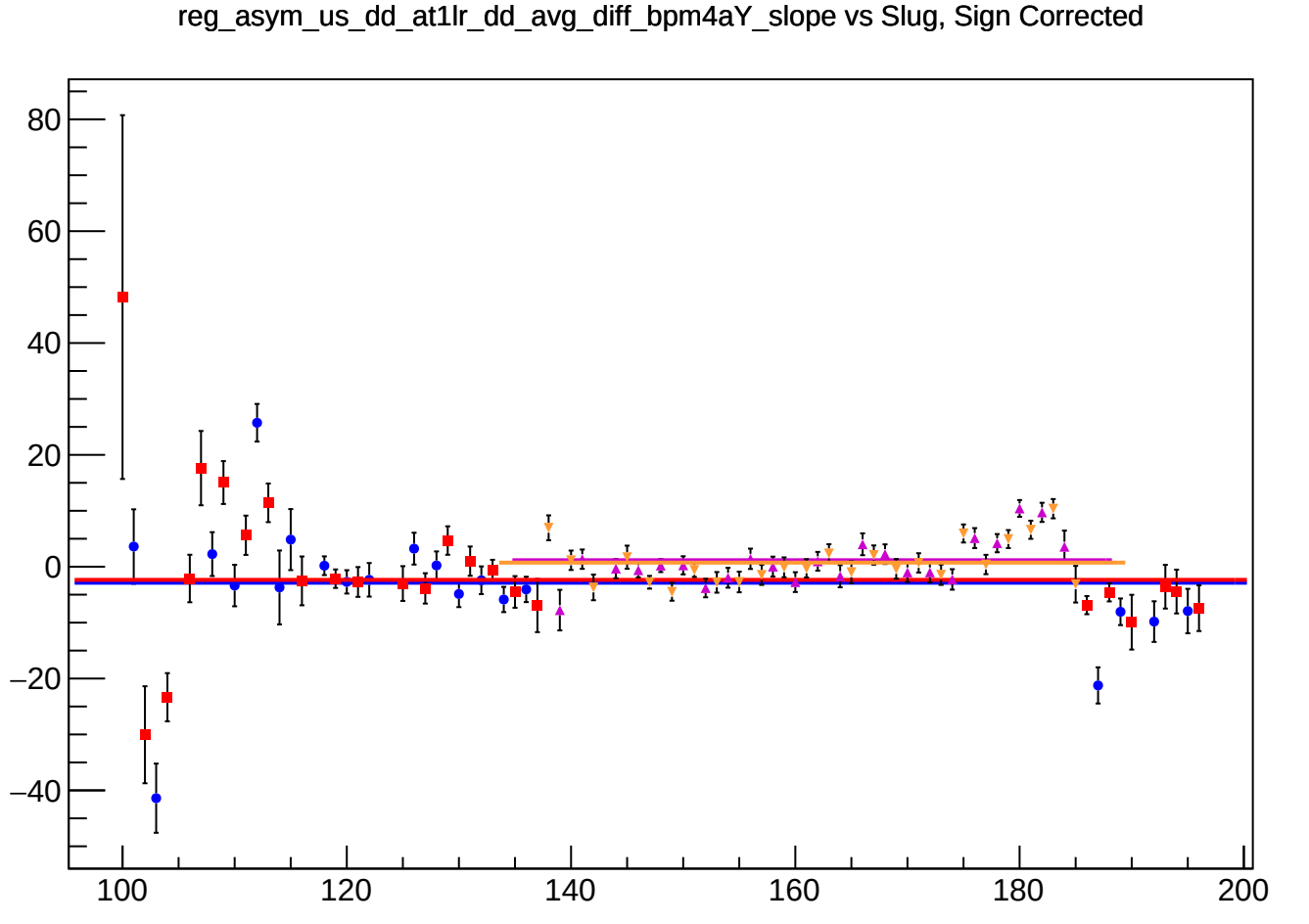
Left: 9.449+/-0.325 $\chi^2$/NDF: 574.7/46

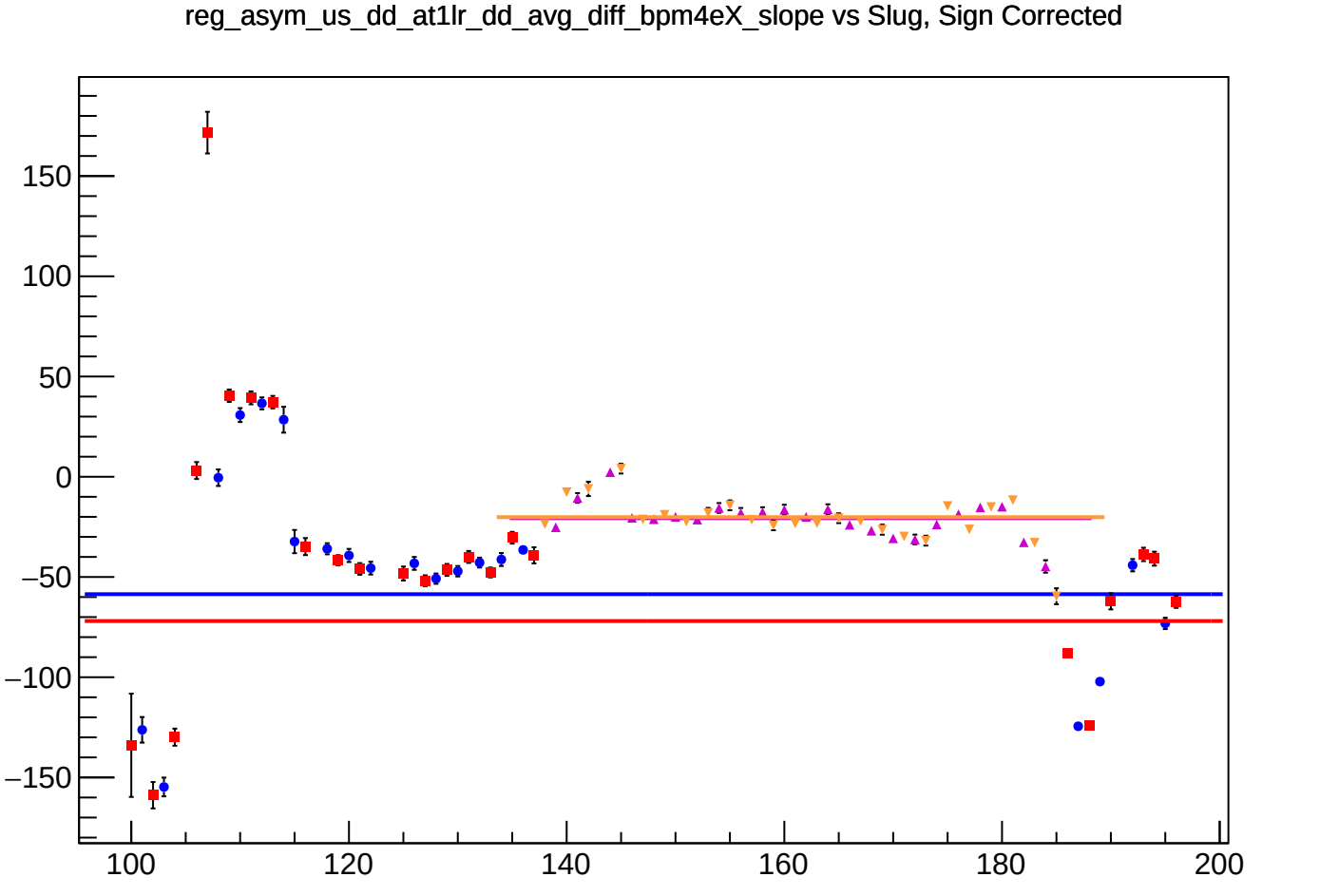
Right: 41.180+/-0.392 $\chi^2$/NDF: 11629.1/43

In: 19.220+/-0.367 $\chi^2$/NDF:5082.0/42

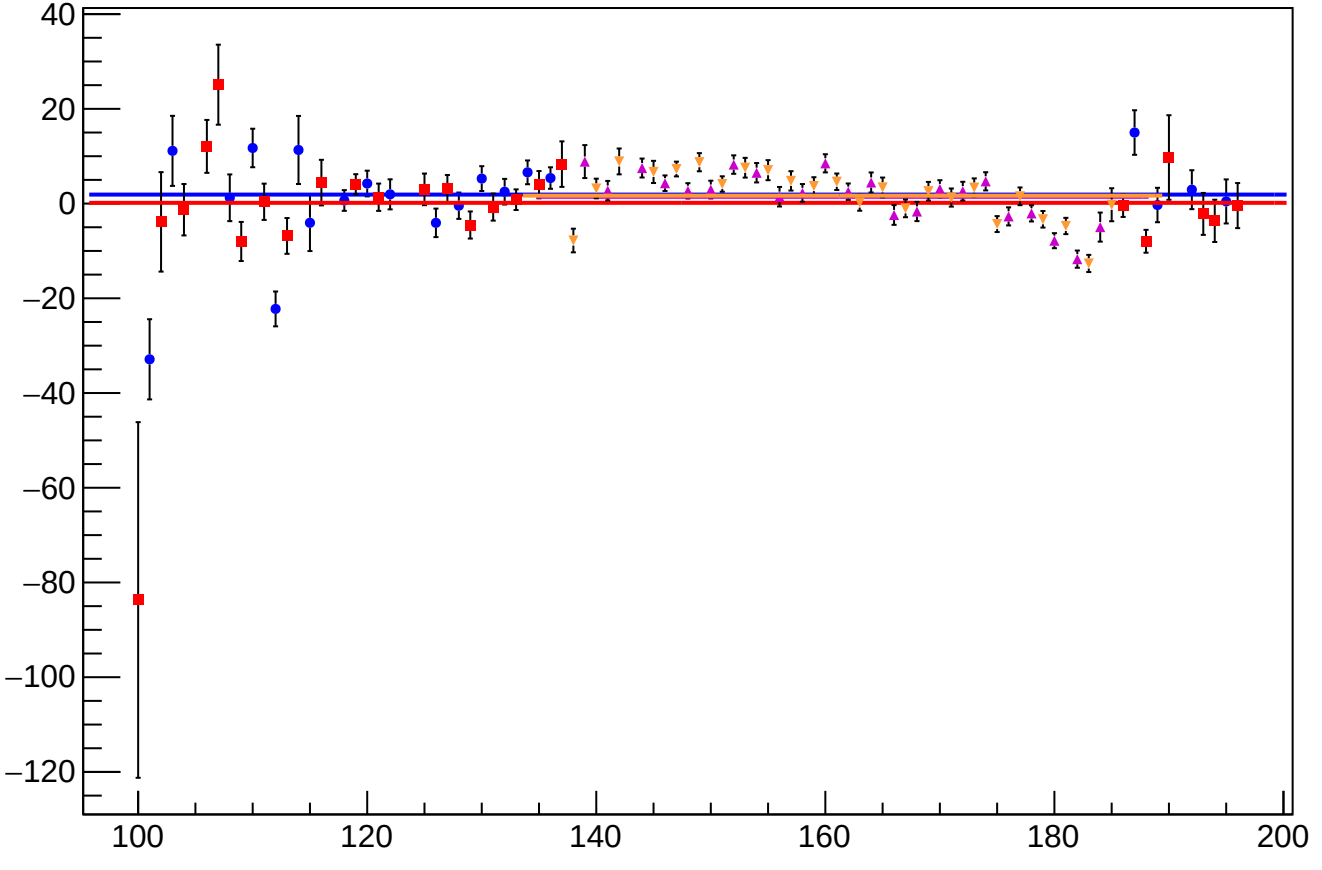
Out: 25.078+/-0.342 $\chi^2$/NDF:10864.6/47

All: 22.348+/-0.250 $\chi^2$/NDF: 16082.9/90


reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
100
120
140
160
180
200
Right In: -2.869+/-0.638 χ²/NDF: 170.1/19
Left Out: 0.730+/-0.350 χ²/NDF:109.7/23
Right Out: -2.351+/-0.581 χ²/NDF: 113.3/23
Left In: 1.156+/-0.358 χ²/NDF:110.4/22
Left: 0.939+/-0.250 χ²/NDF: 220.9/46
Right: -2.586+/-0.430 χ²/NDF: 283.8/43
In: 0.194+/-0.312 χ²/NDF:310.9/42
Out: -0.088+/-0.300 χ²/NDF:243.7/47
All: 0.047+/-0.216 χ²/NDF: 555.0/90


reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
150
100
50
0
−50
−100
−150
100
120
140
160
180
200
Right In: -58.577+/-0.628 χ²/NDF: 5268.4/19
Left Out: -20.151+/-0.452 χ²/NDF:420.3/23
Right Out: -71.971+/-0.504 χ²/NDF: 9452.5/23
Left In: -20.683+/-0.458 χ²/NDF:310.5/22
Left: -20.414+/-0.322 χ²/NDF: 731.5/46
Right: -66.721+/-0.393 χ²/NDF: 14997.9/43
In: -33.839+/-0.370 χ²/NDF:7959.4/42
Out: -43.283+/-0.337 χ²/NDF:15728.9/47
All: -39.003+/-0.249 χ²/NDF: 24045.0/90

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 1.897+/-0.745 $\chi^2$/NDF: 91.7/19

Left Out: 1.671+/-0.395 $\chi^2$/NDF:178.0/23

Right Out: 0.156+/-0.706 $\chi^2$/NDF: 53.0/23

Left In: 1.428+/-0.403 $\chi^2$/NDF:162.8/22

Left: 1.552+/-0.282 $\chi^2$/NDF: 340.9/46

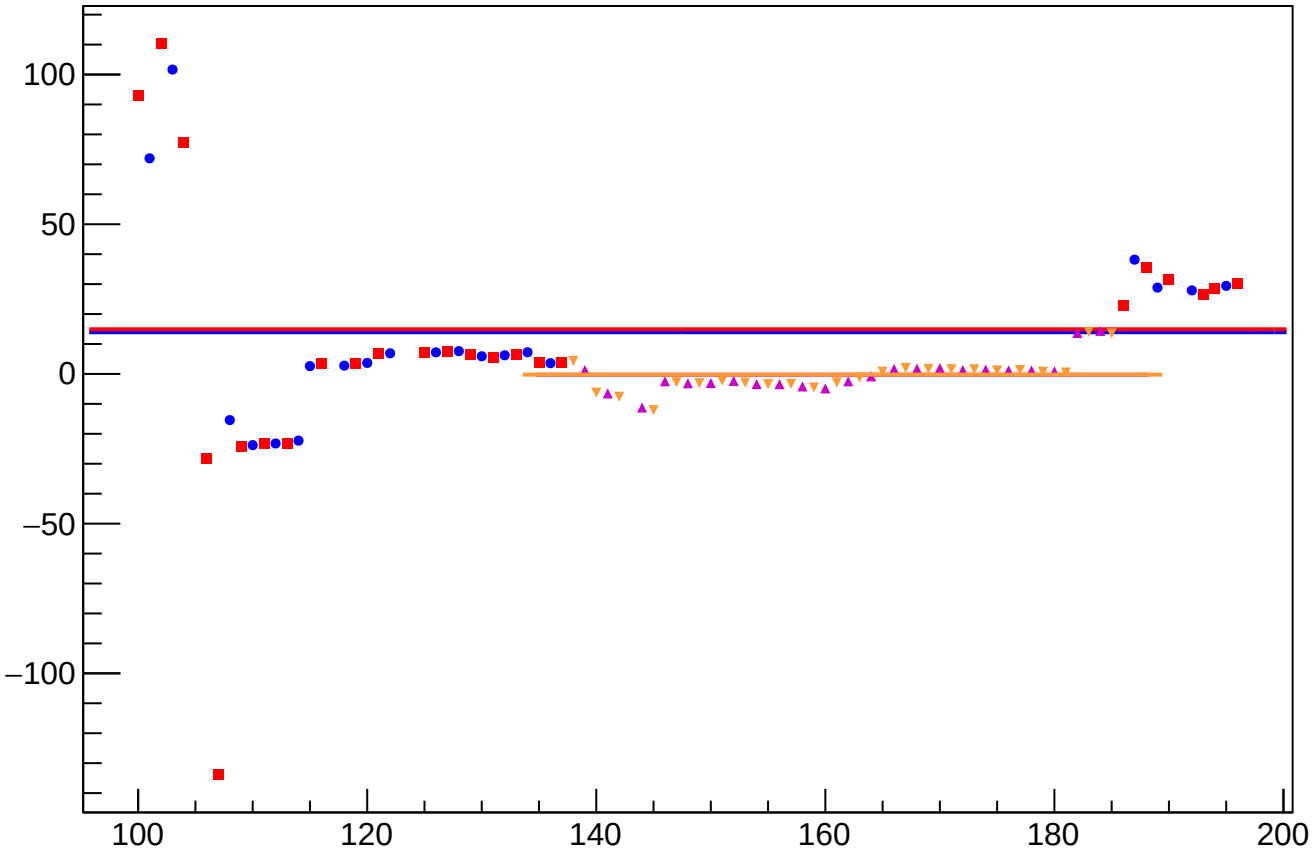
Right: 0.980+/-0.513 $\chi^2$/NDF: 147.6/43

In: 1.534+/-0.354 $\chi^2$/NDF:254.8/42

Out: 1.310+/-0.345 $\chi^2$/NDF:234.5/47

All: 1.419+/-0.247 $\chi^2$/NDF: 489.5/90

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 13.940+/-0.041 $\chi^2$/NDF: 367576.3/19

Left Out: -0.229+/-0.018 $\chi^2$/NDF:80976.2/23

Right Out: 14.910+/-0.040 $\chi^2$/NDF: 546291.8/23

Left In: -0.270+/-0.018 $\chi^2$/NDF:72783.3/22

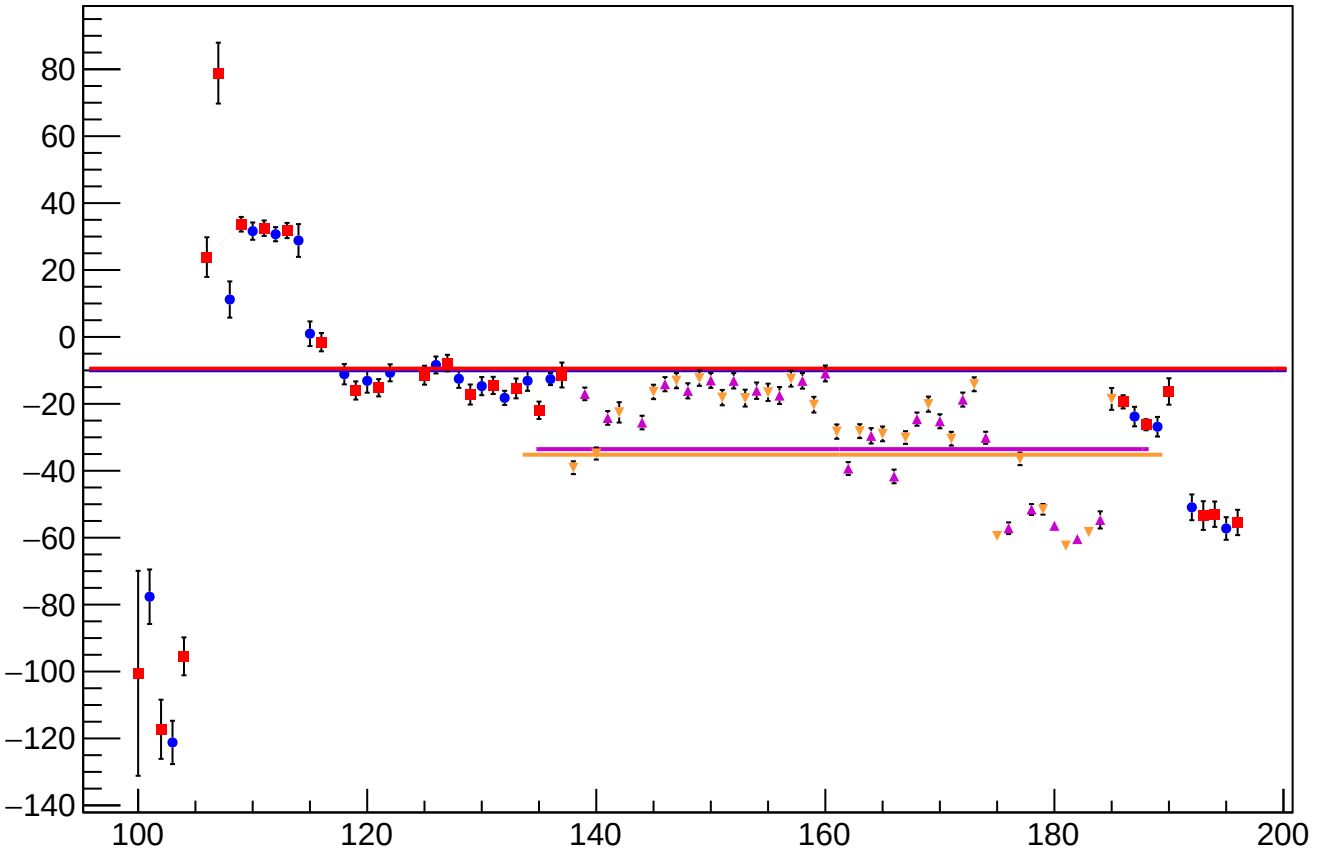
Left: -0.249+/-0.013 $\chi^2$/NDF: 153762.2/46

Right: 14.446+/-0.029 $\chi^2$/NDF: 914156.2/43

In: 1.943+/-0.016 $\chi^2$/NDF:540294.1/42

Out: 2.285+/-0.016 $\chi^2$/NDF:749629.3/47

All: 2.116+/-0.011 $\chi^2$/NDF: 1290146.7/90




Right In: -9.954+/-0.650 $\chi^2$/NDF: 1466.9/19

Left Out: -35.201+/-0.408 $\chi^2$/NDF:1850.7/23

Right Out: -9.471+/-0.591 $\chi^2$/NDF: 2132.1/23

Left In: -33.528+/-0.414 $\chi^2$/NDF:1806.1/22

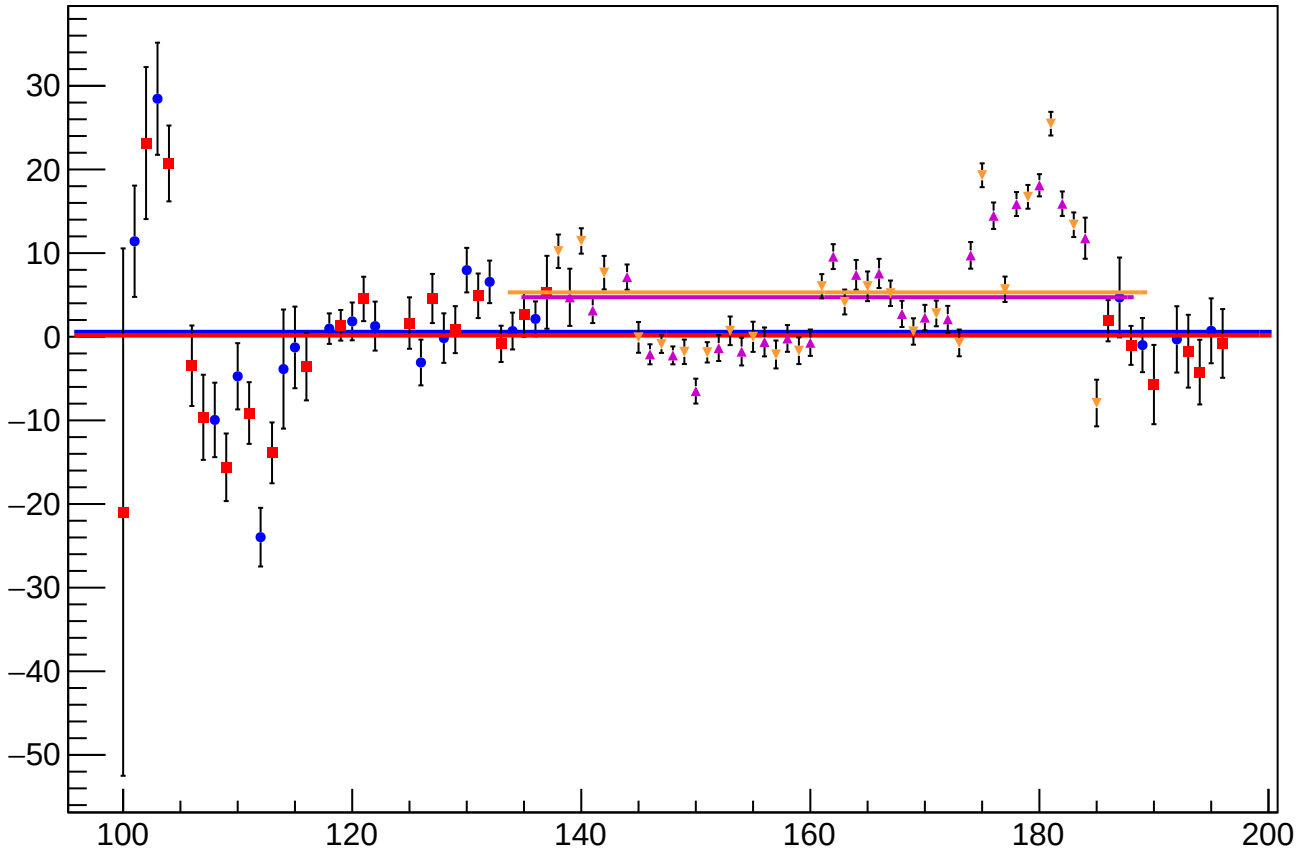
Left: -34.376+/-0.291 $\chi^2$/NDF: 3665.2/46

Right: -9.690+/-0.438 $\chi^2$/NDF: 3599.3/43

In: -26.738+/-0.349 $\chi^2$/NDF:4208.4/42

Out: -26.899+/-0.336 $\chi^2$/NDF:5265.0/47

All: -26.822+/-0.242 $\chi^2$/NDF: 9473.4/90




Right In: 0.591+/-0.680 $\chi^2$/NDF: 93.9/19

Left Out: 5.307+/-0.315 $\chi^2$/NDF:624.4/23

Right Out: 0.138+/-0.655 $\chi^2$/NDF: 84.2/23

Left In: 4.727+/-0.321 $\chi^2$/NDF:496.0/22

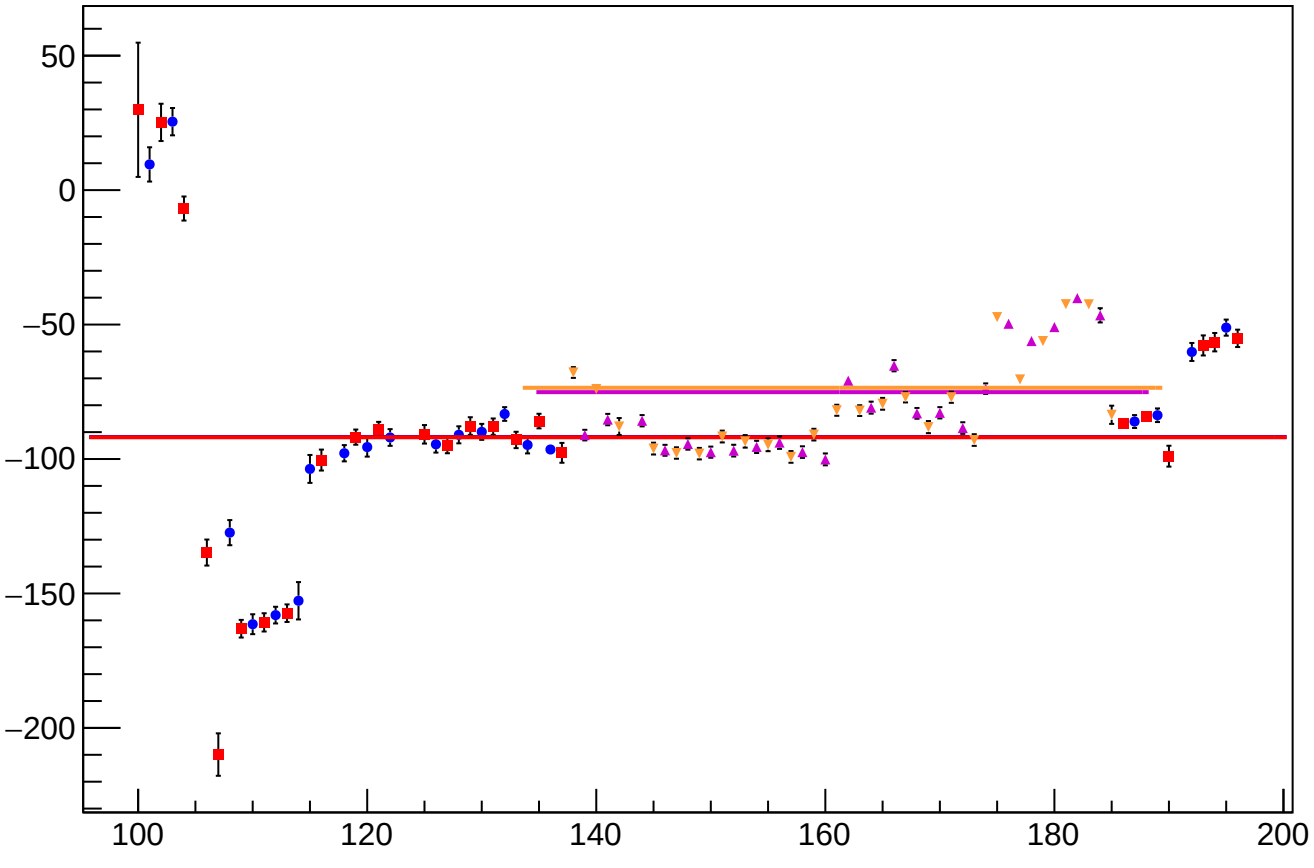
Left: 5.023+/-0.225 $\chi^2$/NDF: 1122.0/46

Right: 0.356+/-0.472 $\chi^2$/NDF: 178.3/43

In: 3.973+/-0.290 $\chi^2$/NDF:620.1/42

Out: 4.337+/-0.284 $\chi^2$/NDF:759.1/47

All: 4.159+/-0.203 $\chi^2$/NDF: 1380.0/90




Right In: -91.817+/-0.699 $\chi^2$/NDF: 2050.6/19

Left Out: -73.506+/-0.405 $\chi^2$/NDF:2392.0/23

Right Out: -91.908+/-0.608 $\chi^2$/NDF: 2640.6/23

Left In: -75.133+/-0.410 $\chi^2$/NDF:2361.9/22

Left: -74.310+/-0.288 $\chi^2$/NDF: 4761.8/46

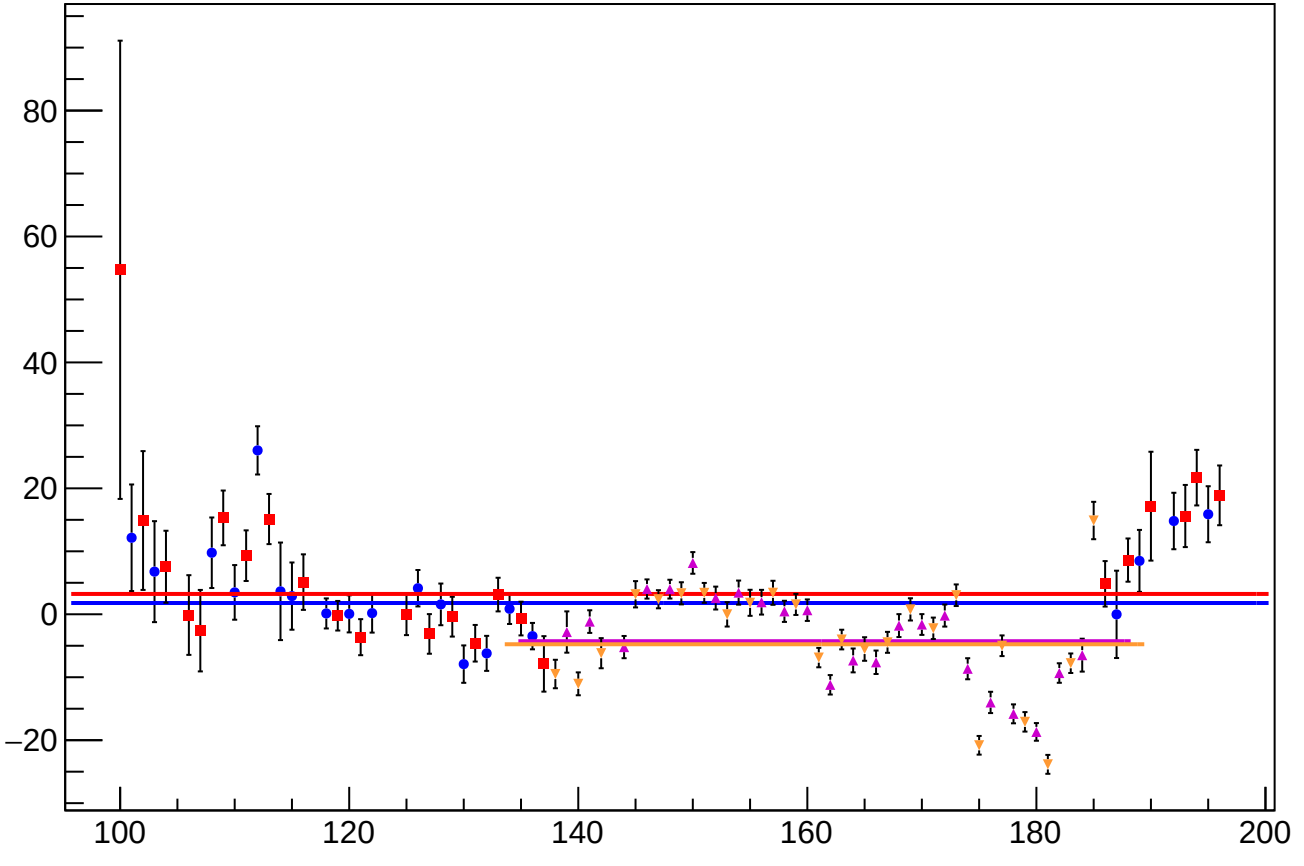
Right: -91.869+/-0.459 $\chi^2$/NDF: 4691.2/43

In: -79.400+/-0.354 $\chi^2$/NDF:4836.0/42

Out: -79.170+/-0.337 $\chi^2$/NDF:5667.1/47

All: -79.280+/-0.244 $\chi^2$/NDF: 10503.3/90

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: 1.790+/-0.780 $\chi^2$/NDF: 91.7/19

Left Out: -4.762+/-0.355 $\chi^2$/NDF:576.9/23

Right Out: 3.228+/-0.773 $\chi^2$/NDF: 93.9/23

Left In: -4.278+/-0.361 $\chi^2$/NDF:424.1/22

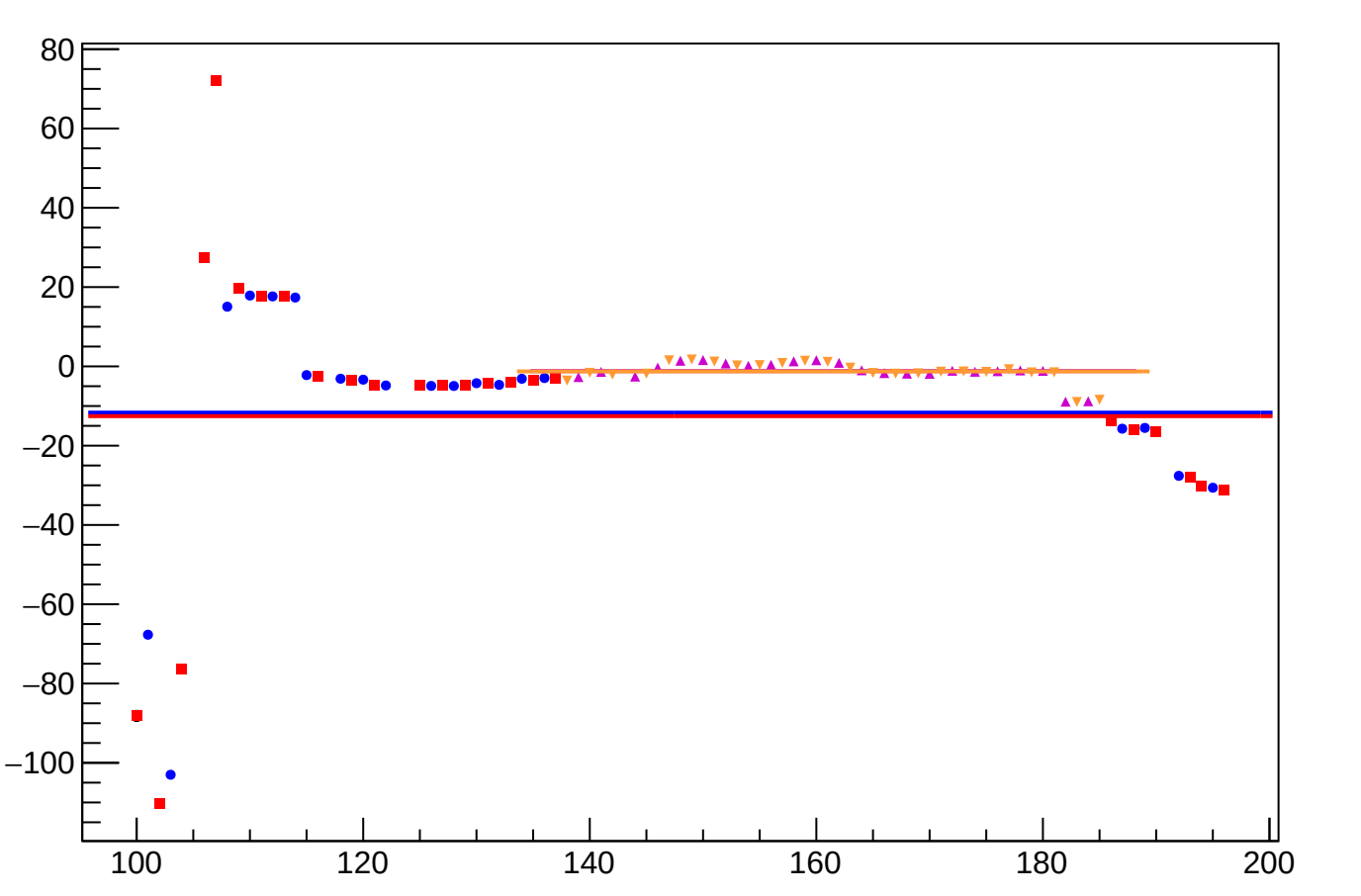
Left: -4.524+/-0.253 $\chi^2$/NDF: 1002.0/46

Right: 2.516+/-0.549 $\chi^2$/NDF: 187.3/43

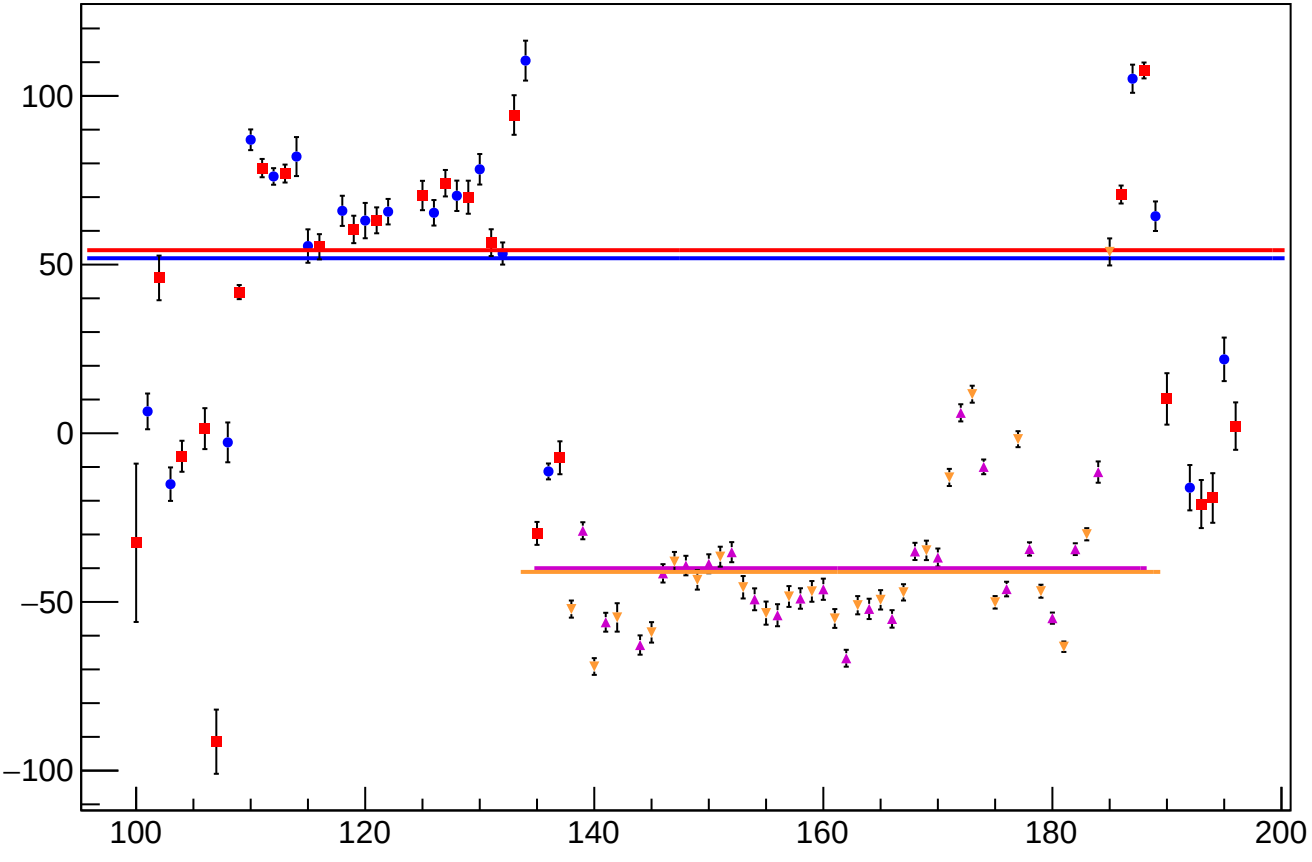
In: -3.207+/-0.328 $\chi^2$/NDF:565.7/42

Out: -3.371+/-0.322 $\chi^2$/NDF:759.1/47

All: -3.290+/-0.230 $\chi^2$/NDF: 1325.0/90


reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
−40
−60
−80
−100
100
120
140
160
180
200
Right In: -11.667+/-0.042 χ²/NDF: 308611.8/19
Left Out: -1.267+/-0.016 χ²/NDF:25091.1/23
Right Out: -12.555+/-0.042 χ²/NDF: 406063.2/23
Left In: -1.180+/-0.016 χ²/NDF:24754.1/22
Left: -1.224+/-0.011 χ²/NDF: 49860.2/46
Right: -12.114+/-0.030 χ²/NDF: 714898.8/43
In: -2.496+/-0.015 χ²/NDF:387581.6/42
Out: -2.689+/-0.015 χ²/NDF:494924.2/47
All: -2.593+/-0.011 χ²/NDF: 882589.7/90

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: 51.882+/-0.902 $\chi^2$/NDF: 1800.5/19

Left Out: -41.097+/-0.517 $\chi^2$/NDF:1948.2/23

Right Out: 54.270+/-0.792 $\chi^2$/NDF: 2414.8/23

Left In: -40.000+/-0.524 $\chi^2$/NDF:1031.8/22

Left: -40.556+/-0.368 $\chi^2$/NDF: 2982.2/46

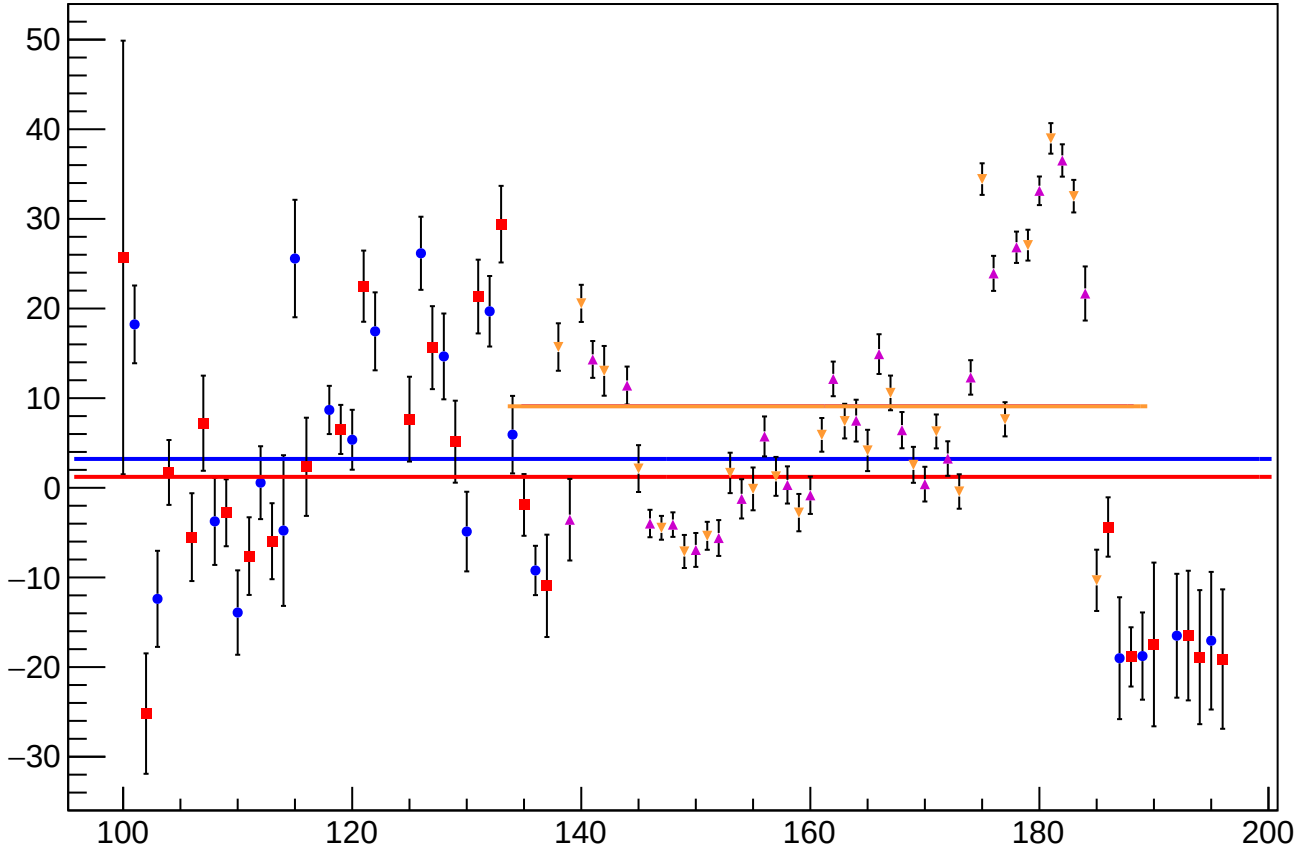
Right: 53.230+/-0.595 $\chi^2$/NDF: 4219.2/43

In: -16.801+/-0.453 $\chi^2$/NDF:10587.1/42

Out: -12.583+/-0.433 $\chi^2$/NDF:14522.6/47

All: -14.596+/-0.313 $\chi^2$/NDF: 25155.0/90

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 3.220+/-0.971 $\chi^2$/NDF: 189.3/19

Left Out: 9.094+/-0.401 $\chi^2$/NDF:1253.7/23

Right Out: 1.220+/-0.911 $\chi^2$/NDF: 209.4/23

Left In: 9.121+/-0.409 $\chi^2$/NDF:1051.8/22

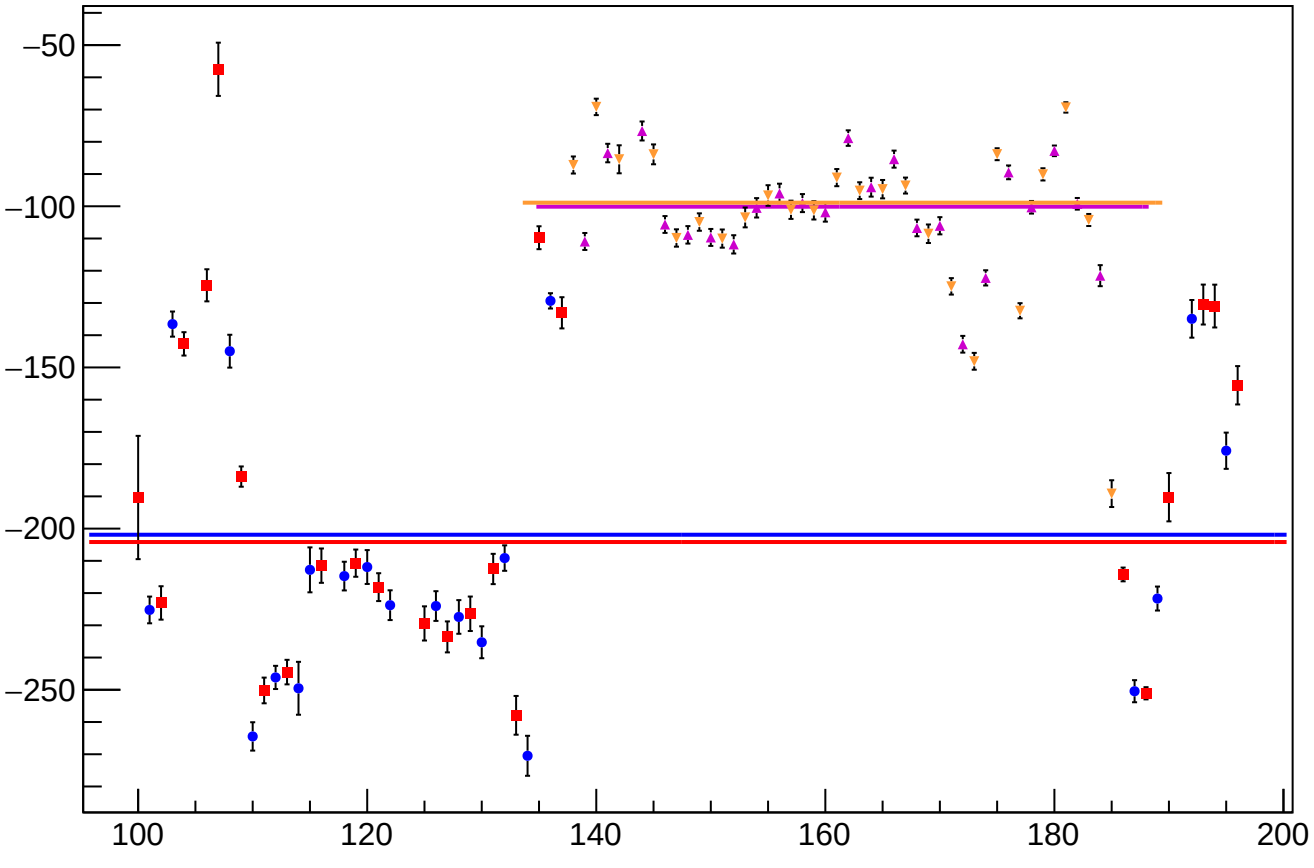
Left: 9.107+/-0.286 $\chi^2$/NDF: 2305.5/46

Right: 2.157+/-0.664 $\chi^2$/NDF: 401.0/43

In: 8.232+/-0.377 $\chi^2$/NDF:1272.5/42

Out: 7.815+/-0.367 $\chi^2$/NDF:1525.7/47

All: 8.018+/-0.263 $\chi^2$/NDF: 2798.8/90




Right In: -201.899+/-0.967 $\chi^2$/NDF: 2393.1/19

Left Out: -98.883+/-0.514 $\chi^2$/NDF:1824.5/23

Right Out: -204.160+/-0.830 $\chi^2$/NDF: 3225.1/23

Left In: -100.127+/-0.520 $\chi^2$/NDF:823.2/22

Left: -99.498+/-0.366 $\chi^2$/NDF: 2650.6/46

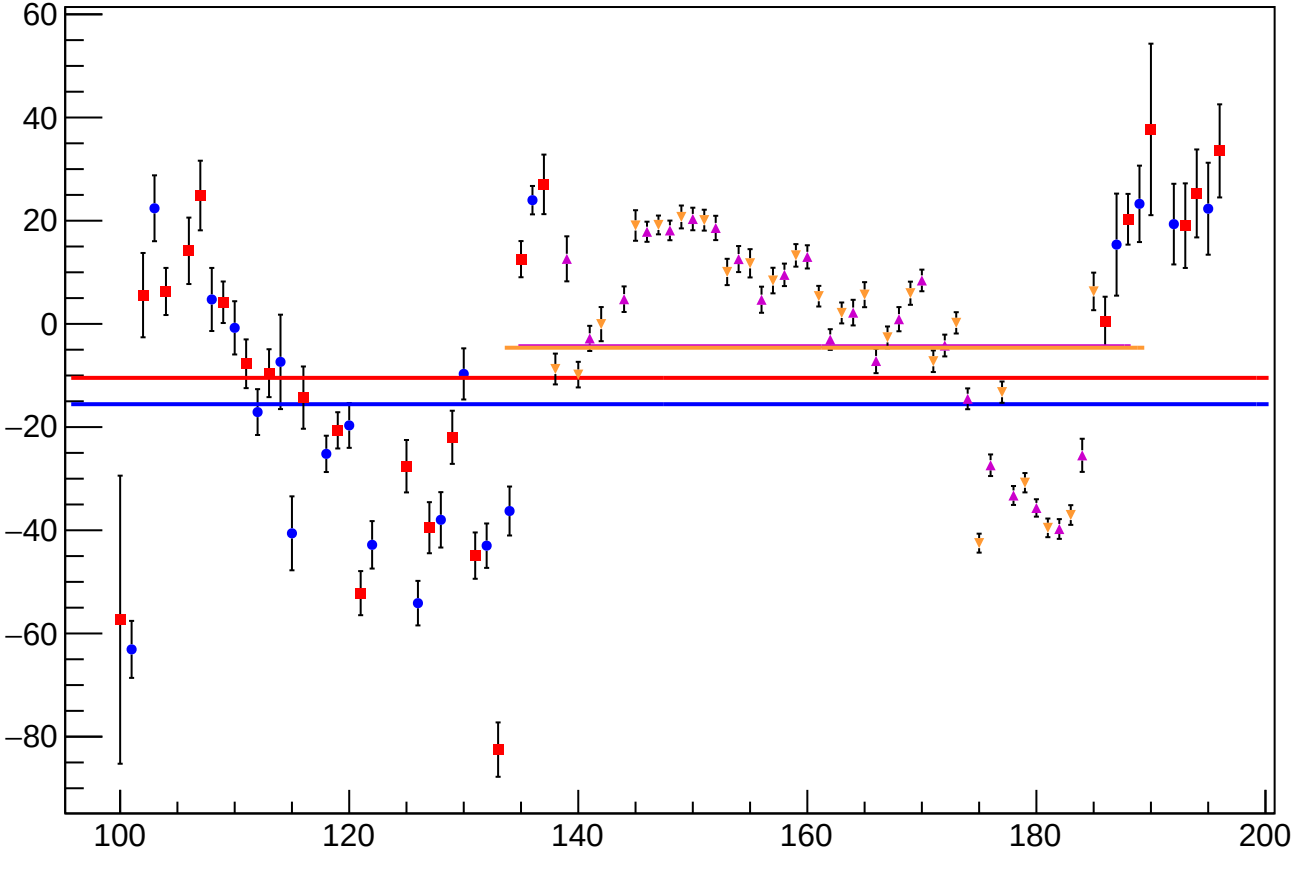
Right: -203.200+/-0.630 $\chi^2$/NDF: 5621.4/43

In: -122.975+/-0.458 $\chi^2$/NDF:11813.3/42

Out: -128.056+/-0.437 $\chi^2$/NDF:16667.9/47

All: -125.634+/-0.316 $\chi^2$/NDF: 28545.6/90

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -15.563+/-1.117 $\chi^2$/NDF: 625.0/19

Left Out: -4.618+/-0.451 $\chi^2$/NDF:2078.3/23

Right Out: -10.460+/-1.073 $\chi^2$/NDF: 668.7/23

Left In: -4.328+/-0.459 $\chi^2$/NDF:1854.2/22

Left: -4.475+/-0.322 $\chi^2$/NDF: 3932.7/46

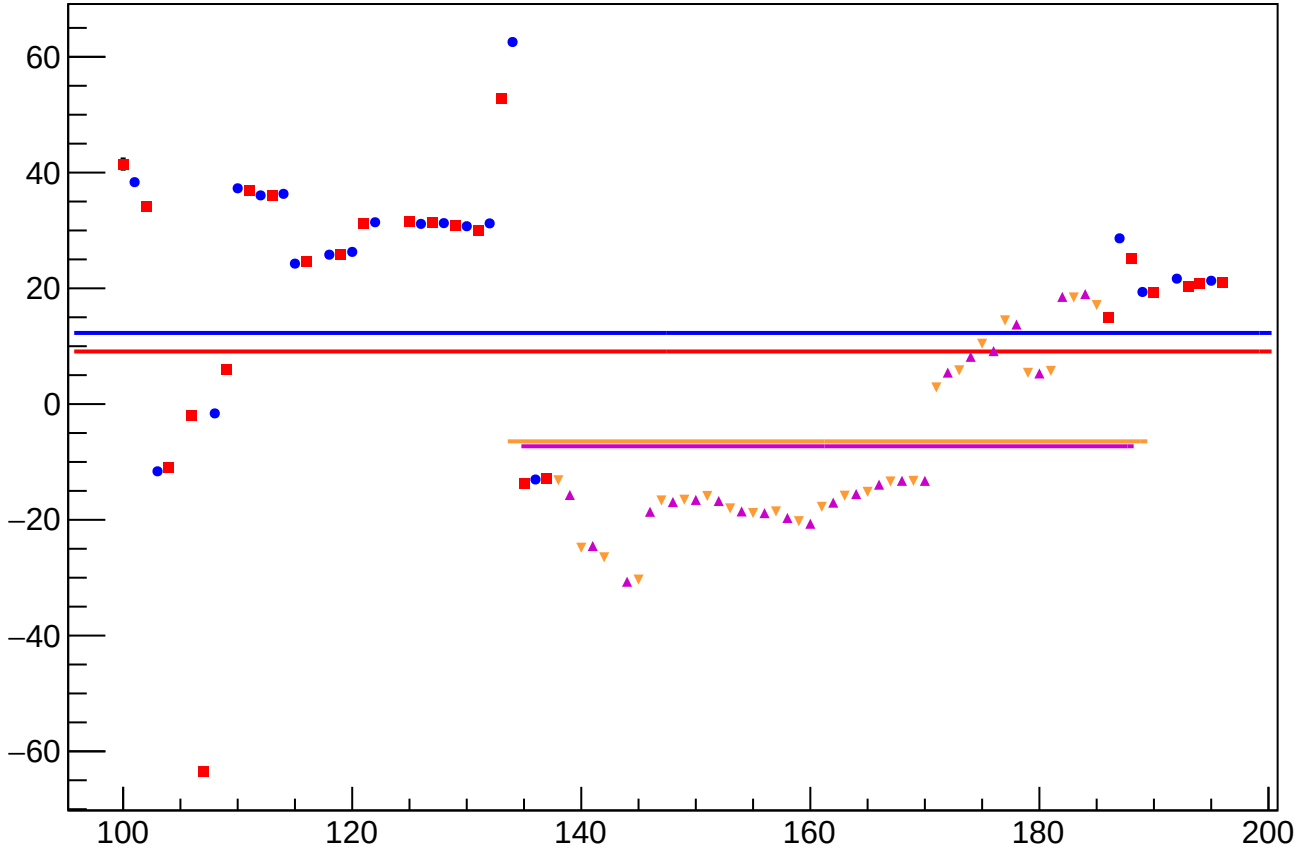
Right: -12.908+/-0.774 $\chi^2$/NDF: 1304.5/43

In: -5.950+/-0.424 $\chi^2$/NDF:2565.7/42

Out: -5.497+/-0.416 $\chi^2$/NDF:2772.2/47

All: -5.719+/-0.297 $\chi^2$/NDF: 5338.4/90

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: 12.293+/-0.058 $\chi^2$/NDF: 169442.6/19

Left Out: -6.437+/-0.020 $\chi^2$/NDF:496714.6/23

Right Out: 9.090+/-0.056 $\chi^2$/NDF: 168886.5/23

Left In: -7.292+/-0.020 $\chi^2$/NDF:488261.5/22

Left: -6.862+/-0.014 $\chi^2$/NDF: 985866.7/46

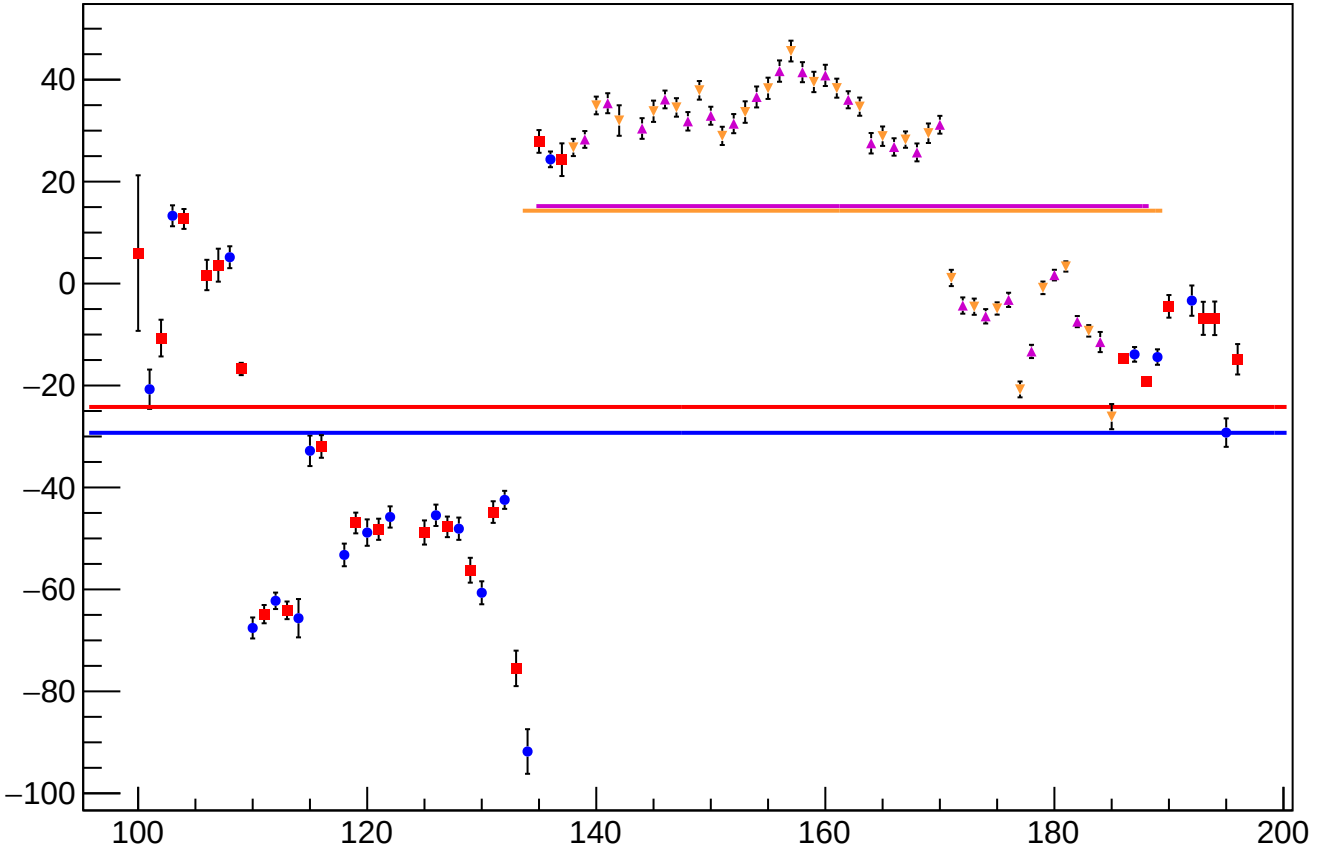
Right: 10.630+/-0.040 $\chi^2$/NDF: 339906.1/43

In: -5.162+/-0.019 $\chi^2$/NDF:758897.1/42

Out: -4.647+/-0.019 $\chi^2$/NDF:733764.0/47

All: -4.902+/-0.013 $\chi^2$/NDF: 1493026.0/90

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -29.278+/-0.472 $\chi^2$/NDF: 3870.6/19

Left Out: 14.295+/-0.335 $\chi^2$/NDF:3726.3/23

Right Out: -24.207+/-0.383 $\chi^2$/NDF: 3666.7/23

Left In: 15.194+/-0.339 $\chi^2$/NDF:3406.6/22

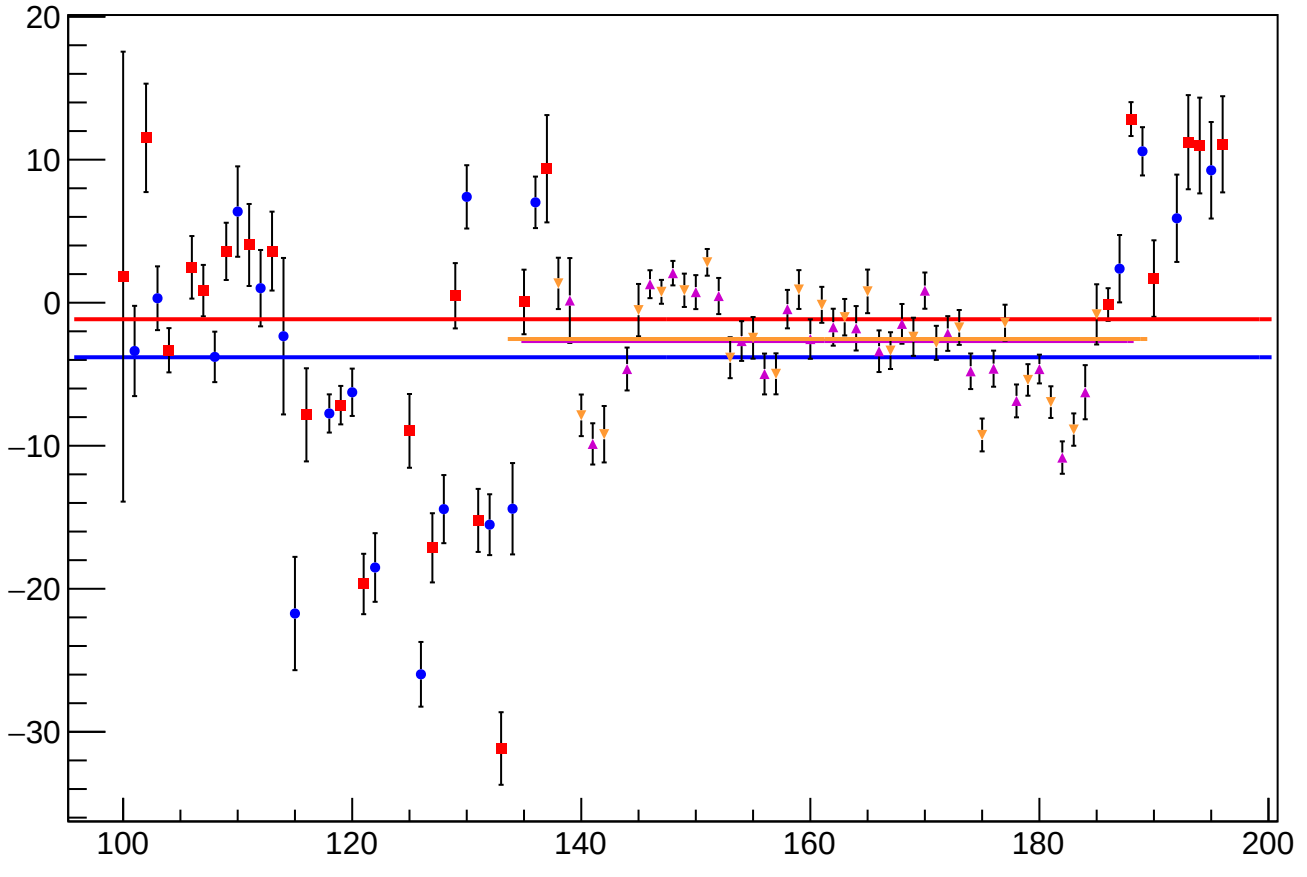
Left: 14.739+/-0.239 $\chi^2$/NDF: 7136.5/46

Right: -26.223+/-0.298 $\chi^2$/NDF: 7606.9/43

In: 0.035+/-0.276 $\chi^2$/NDF:13128.9/42

Out: -2.383+/-0.252 $\chi^2$/NDF:13108.1/47

All: -1.280+/-0.186 $\chi^2$/NDF: 26279.0/90




Right In: -3.813+/-0.501 $\chi^2$/NDF: 409.8/19

Left Out: -2.538+/-0.259 $\chi^2$/NDF:198.4/23

Right Out: -1.155+/-0.430 $\chi^2$/NDF: 554.2/23

Left In: -2.681+/-0.265 $\chi^2$/NDF:182.0/22

Left: -2.608+/-0.185 $\chi^2$/NDF: 380.6/46

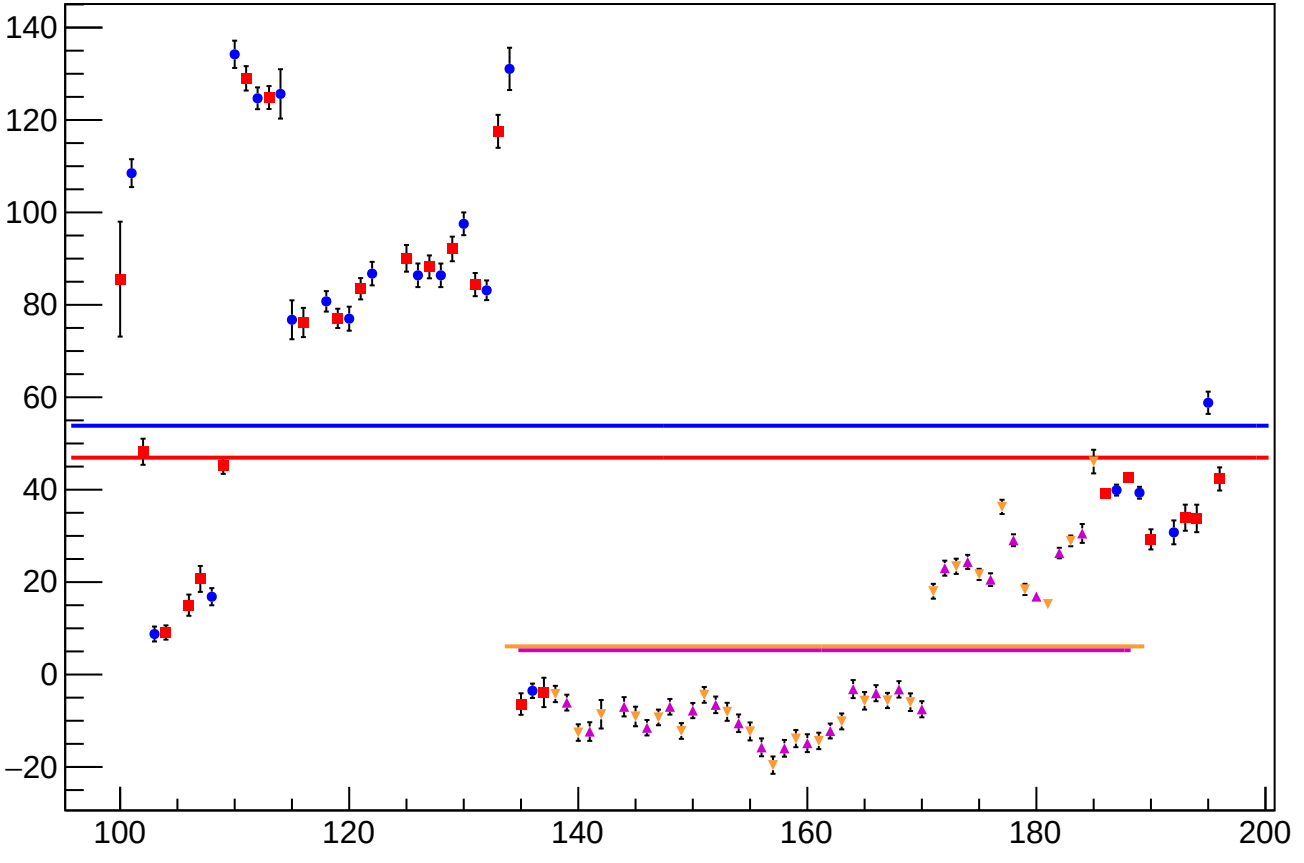
Right: -2.283+/-0.326 $\chi^2$/NDF: 980.3/43

In: -2.929+/-0.234 $\chi^2$/NDF:595.9/42

Out: -2.170+/-0.222 $\chi^2$/NDF:760.2/47

All: -2.529+/-0.161 $\chi^2$/NDF: 1361.6/90

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 53.843+/-0.473 $\chi^2$/NDF: 6577.4/19

Left Out: 6.095+/-0.333 $\chi^2$/NDF:2773.9/23

Right Out: 46.932+/-0.365 $\chi^2$/NDF: 5839.2/23

Left In: 5.269+/-0.337 $\chi^2$/NDF:2451.2/22

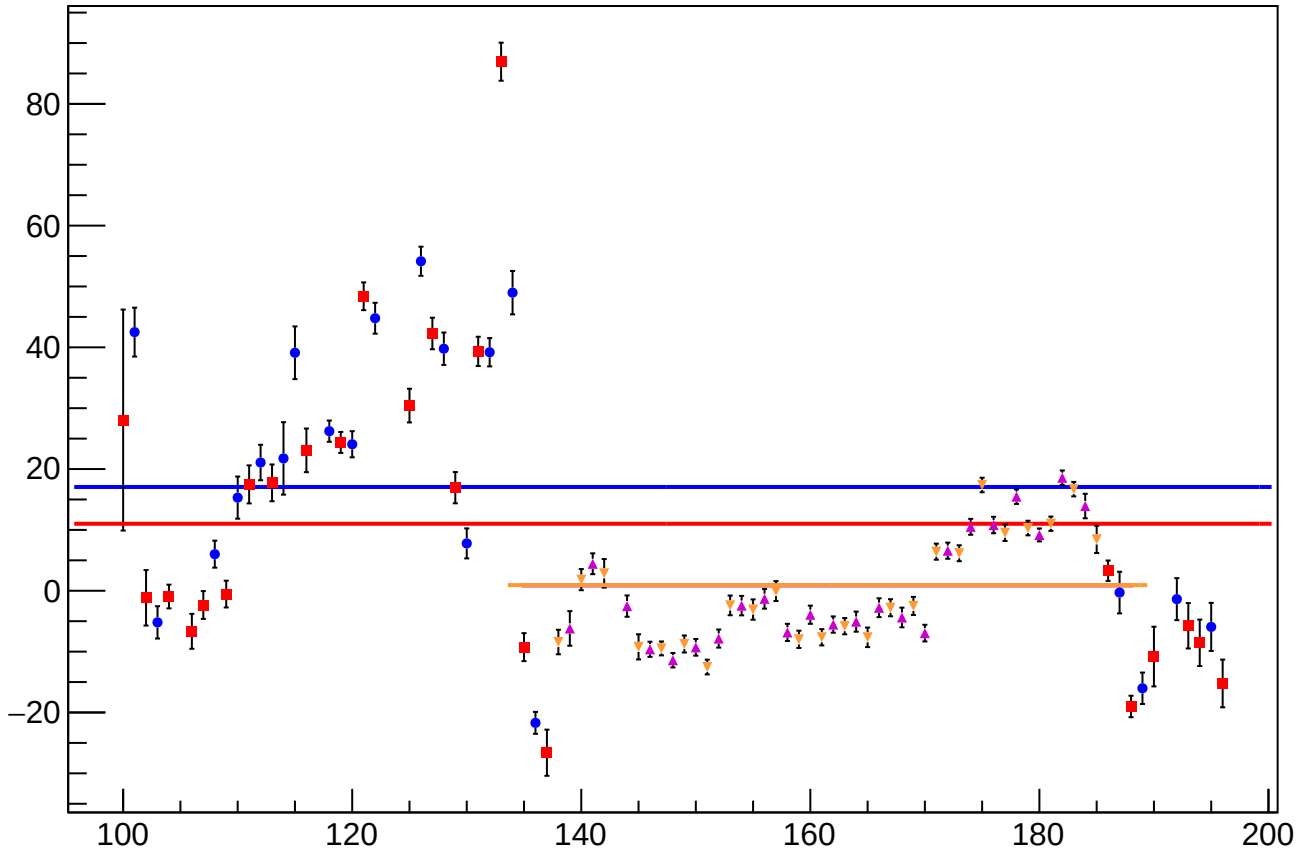
Left: 5.687+/-0.237 $\chi^2$/NDF: 5228.1/46

Right: 49.509+/-0.289 $\chi^2$/NDF: 12550.6/43

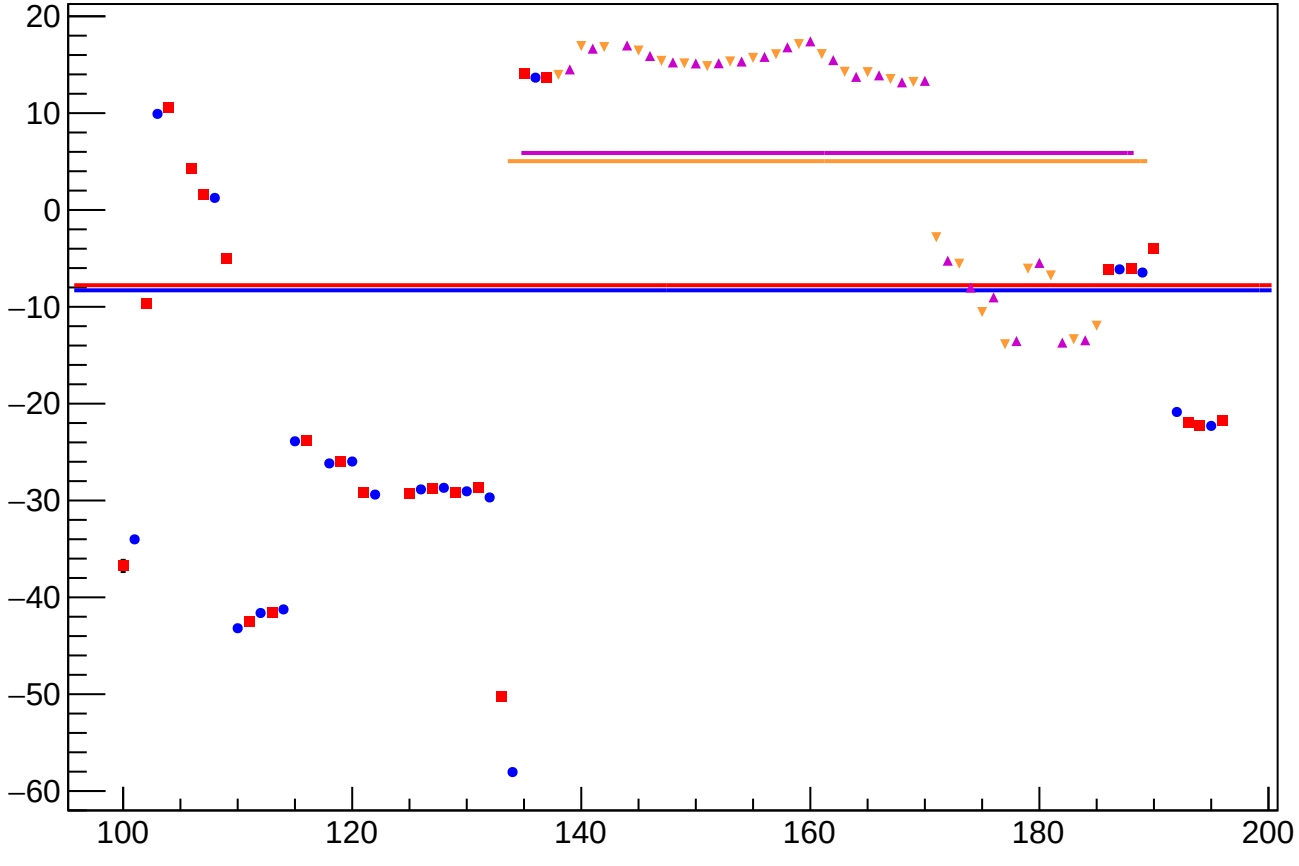
In: 21.603+/-0.274 $\chi^2$/NDF:16034.0/42

Out: 24.660+/-0.246 $\chi^2$/NDF:15455.5/47

All: 23.298+/-0.183 $\chi^2$/NDF: 31558.5/90


reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
80
60
40
20
0
−20
100
120
140
160
180
200
Right In: 17.053+/-0.595 χ²/NDF: 1534.4/19
Left Out: 0.929+/-0.292 χ²/NDF:1041.7/23
Right Out: 11.011+/-0.531 χ²/NDF: 2020.7/23
Left In: 0.878+/-0.297 χ²/NDF:1006.0/22
Left: 0.904+/-0.208 χ²/NDF: 2047.7/46
Right: 13.691+/-0.396 χ²/NDF: 3612.5/43
In: 4.108+/-0.266 χ²/NDF:3131.6/42
Out: 3.264+/-0.256 χ²/NDF:3338.9/47
All: 3.670+/-0.184 χ²/NDF: 6475.8/90

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -8.296+/-0.029 $\chi^2$/NDF: 441204.8/19

Left Out: 5.042+/-0.013 $\chi^2$/NDF:855564.2/23

Right Out: -7.770+/-0.027 $\chi^2$/NDF: 360878.0/23

Left In: 5.886+/-0.013 $\chi^2$/NDF:846355.0/22

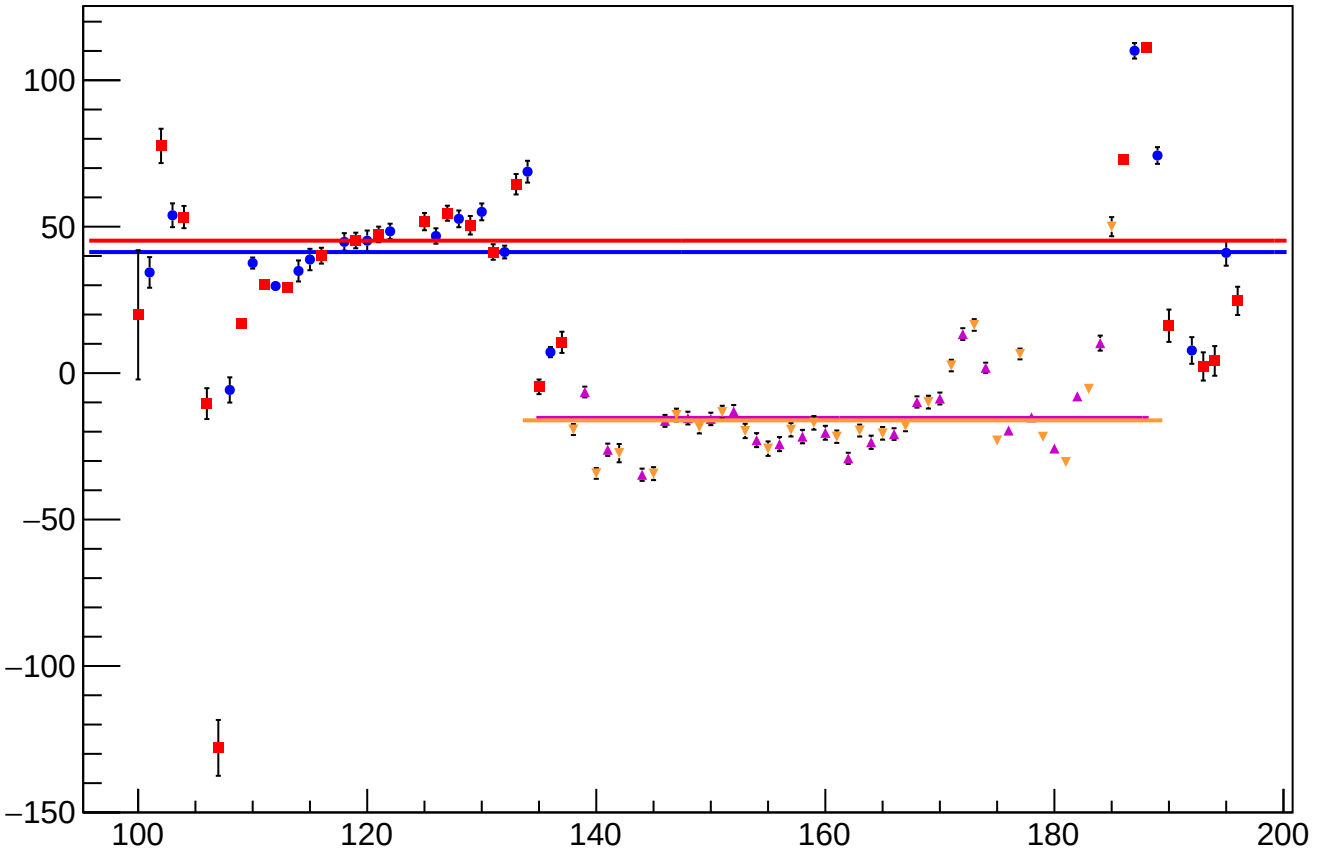
Left: 5.461+/-0.009 $\chi^2$/NDF: 1703993.7/46

Right: -8.014+/-0.020 $\chi^2$/NDF: 802253.6/43

In: 3.530+/-0.012 $\chi^2$/NDF:1480841.4/42

Out: 2.666+/-0.012 $\chi^2$/NDF:1394880.7/47

All: 3.090+/-0.008 $\chi^2$/NDF: 2878361.8/90




Right In: 41.328+/-0.610 $\chi^2$/NDF: 1538.7/19

Left Out: -16.132+/-0.398 $\chi^2$/NDF:1364.9/23

Right Out: 45.227+/-0.538 $\chi^2$/NDF: 3893.0/23

Left In: -15.295+/-0.403 $\chi^2$/NDF:760.9/22

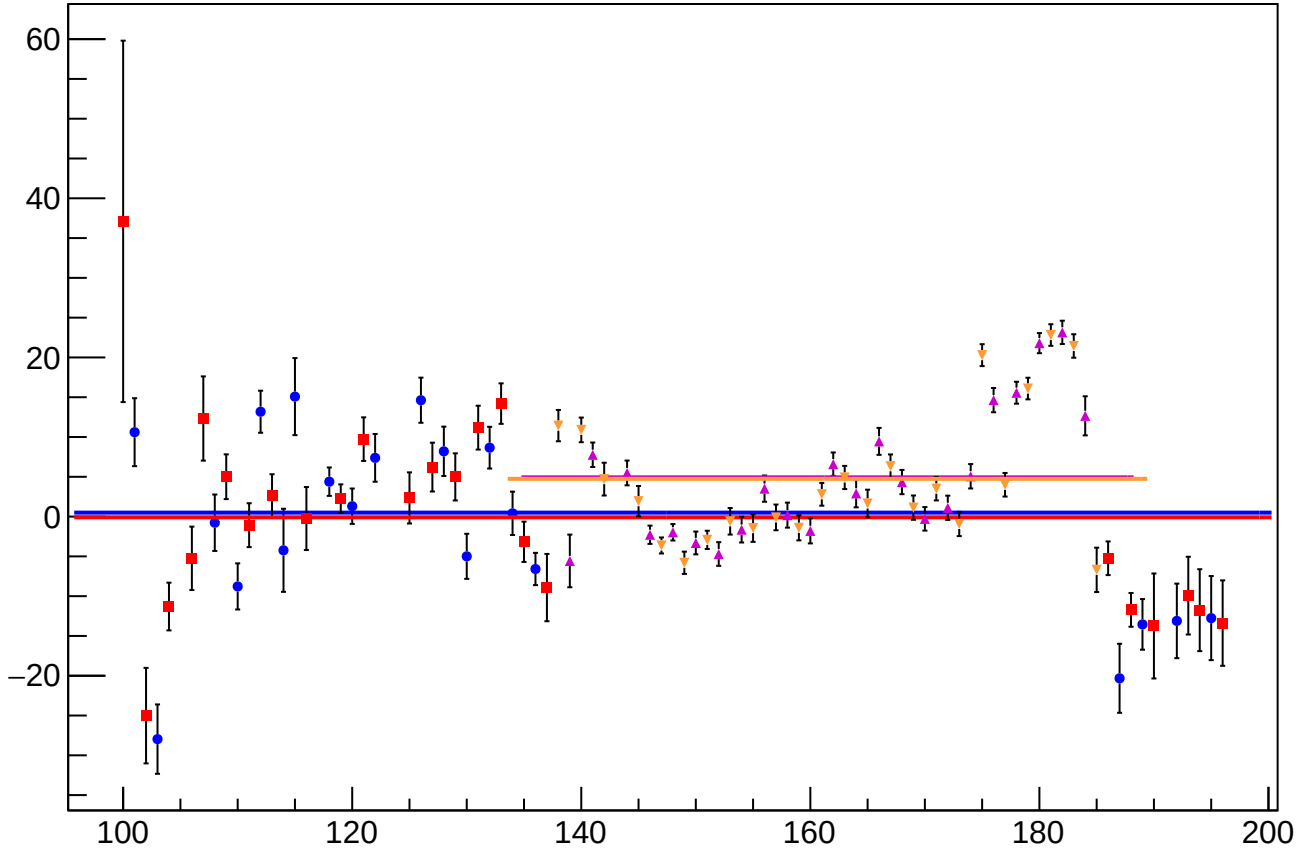
Left: -15.719+/-0.283 $\chi^2$/NDF: 2128.0/46

Right: 43.521+/-0.404 $\chi^2$/NDF: 5454.7/43

In: 1.909+/-0.336 $\chi^2$/NDF:8291.3/42

Out: 5.543+/-0.320 $\chi^2$/NDF:13658.0/47

All: 3.817+/-0.232 $\chi^2$/NDF: 22010.5/90




Right In: 0.498+/-0.664 $\chi^2$/NDF: 215.6/19

Left Out: 4.745+/-0.307 $\chi^2$/NDF:793.8/23

Right Out: -0.092+/-0.628 $\chi^2$/NDF: 177.5/23

Left In: 4.935+/-0.313 $\chi^2$/NDF:688.4/22

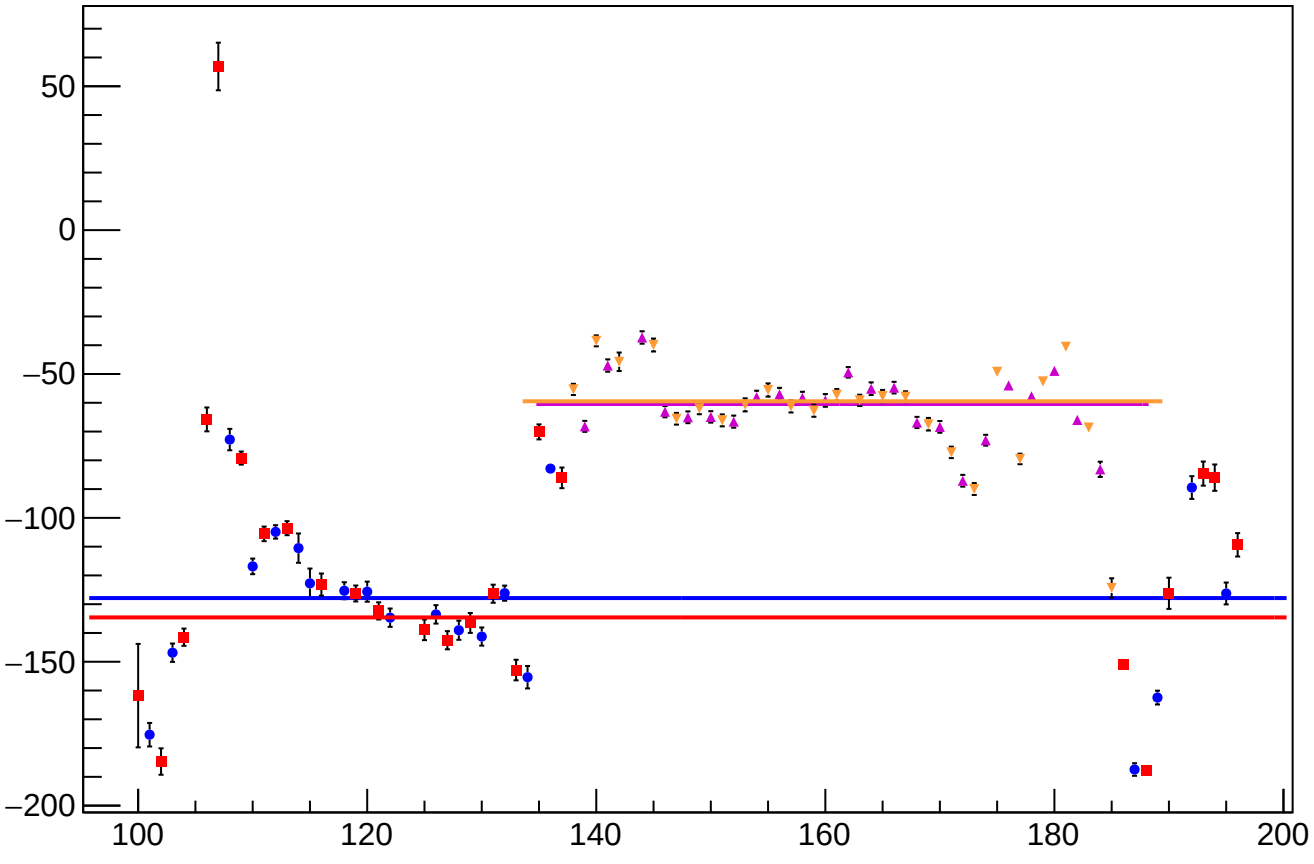
Left: 4.838+/-0.219 $\chi^2$/NDF: 1482.3/46

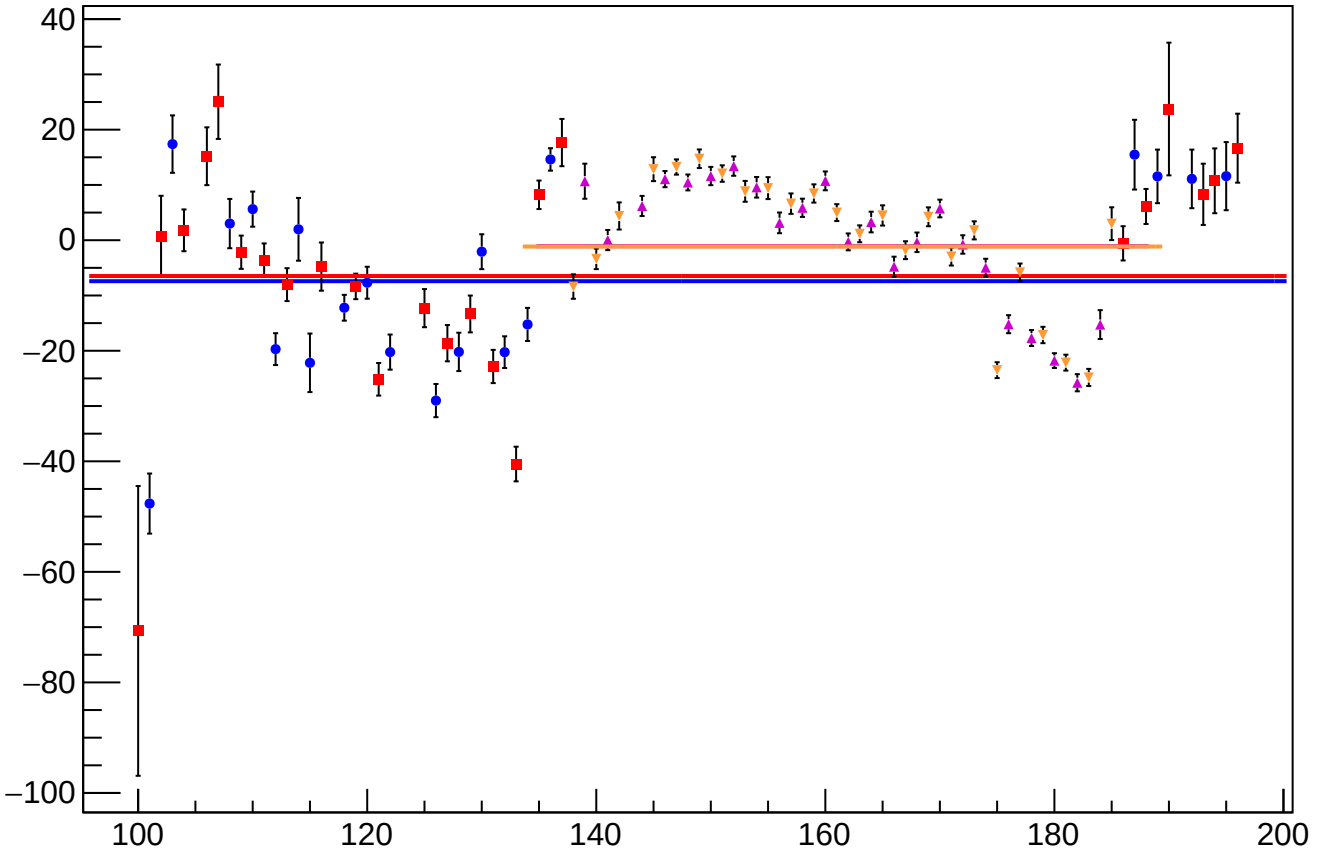
Right: 0.187+/-0.456 $\chi^2$/NDF: 393.6/43

In: 4.129+/-0.283 $\chi^2$/NDF:940.5/42

Out: 3.814+/-0.275 $\chi^2$/NDF:1019.2/47

All: 3.967+/-0.197 $\chi^2$/NDF: 1960.3/90


reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs Slug, Sign Corrected
50
0
−50
−100
−150
−200
100
120
140
160
180
200
Right In: -127.871+/-0.665 χ²/NDF: 2306.2/19
Left Out: -59.480+/-0.395 χ²/NDF:1372.3/23
Right Out: -134.596+/-0.565 χ²/NDF: 5013.5/23
Left In: -60.435+/-0.400 χ²/NDF:668.3/22
Left: -59.952+/-0.281 χ²/NDF: 2043.4/46
Right: -131.776+/-0.431 χ²/NDF: 7379.1/43
In: -78.318+/-0.342 χ²/NDF:10530.1/42
Out: -84.125+/-0.324 χ²/NDF:18255.1/47
All: -81.385+/-0.235 χ²/NDF: 28937.0/90




Right In: -7.413+/-0.765 $\chi^2$/NDF: 412.3/19

Left Out: -1.144+/-0.346 $\chi^2$/NDF:1303.0/23

Right Out: -6.478+/-0.741 $\chi^2$/NDF: 382.7/23

Left In: -1.082+/-0.352 $\chi^2$/NDF:1157.4/22

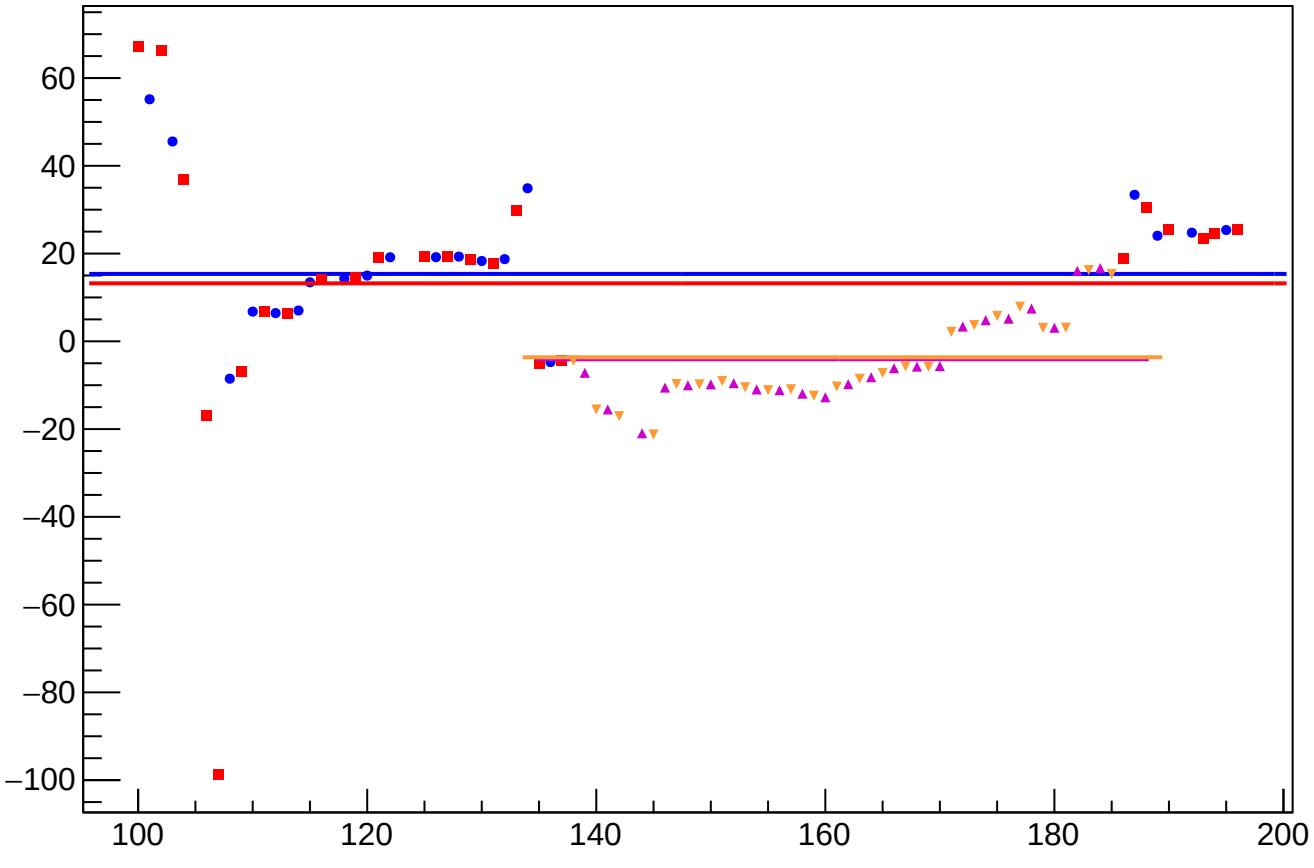
Left: -1.114+/-0.247 $\chi^2$/NDF: 2460.4/46

Right: -6.931+/-0.532 $\chi^2$/NDF: 795.7/43

In: -2.187+/-0.320 $\chi^2$/NDF:1626.2/42

Out: -2.097+/-0.313 $\chi^2$/NDF:1728.2/47

All: -2.141+/-0.224 $\chi^2$/NDF: 3354.5/90




Right In: 15.361+/-0.041 $\chi^2$/NDF: 195804.3/19

Left Out: -3.639+/-0.015 $\chi^2$/NDF:345861.2/23

Right Out: 13.217+/-0.041 $\chi^2$/NDF: 324011.3/23

Left In: -4.091+/-0.016 $\chi^2$/NDF:333287.4/22

Left: -3.864+/-0.011 $\chi^2$/NDF: 679574.3/46

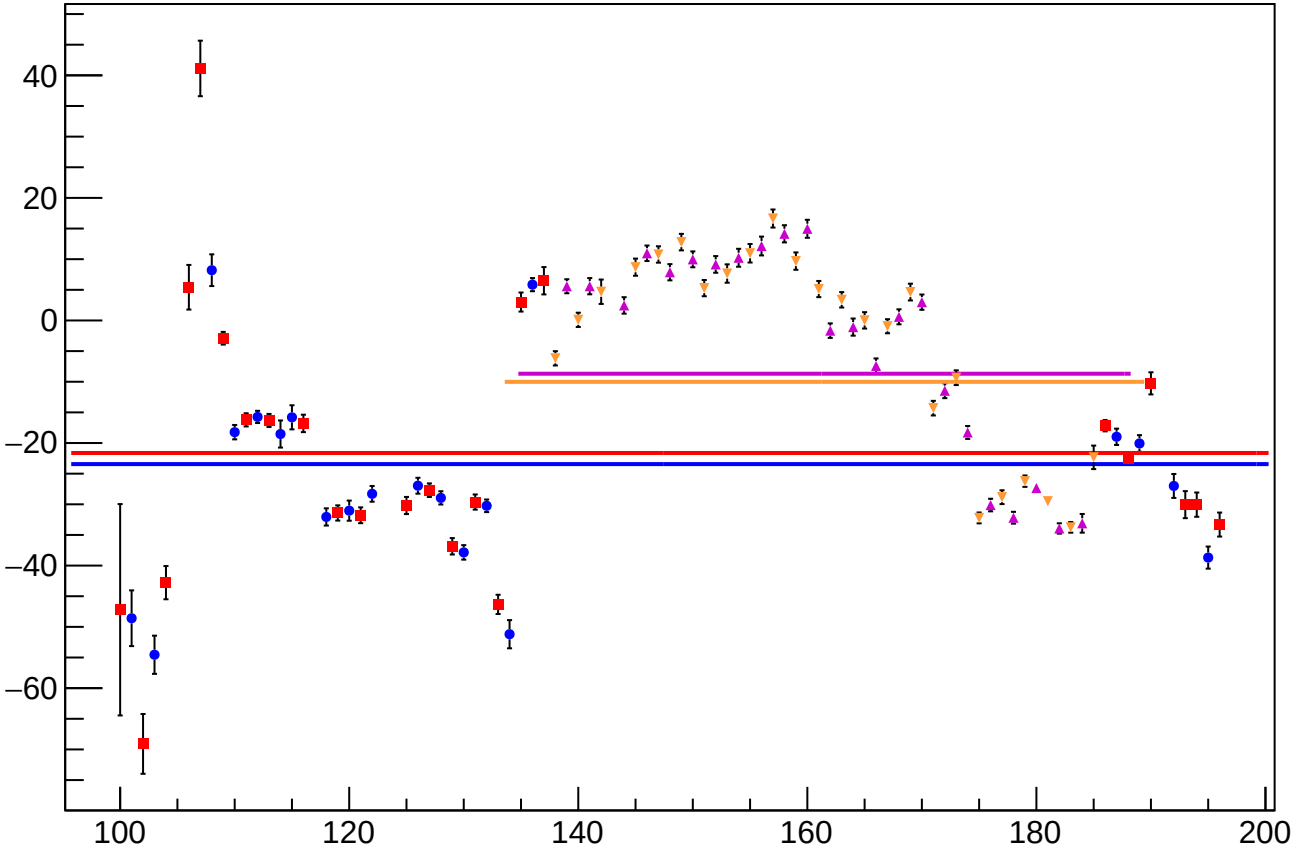
Right: 14.268+/-0.029 $\chi^2$/NDF: 521177.7/43

In: -1.700+/-0.015 $\chi^2$/NDF:721935.1/42

Out: -1.514+/-0.014 $\chi^2$/NDF:819880.6/47

All: -1.606+/-0.010 $\chi^2$/NDF: 1541897.6/90

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -23.440+/-0.319 $\chi^2$/NDF: 1660.4/19

Left Out: -10.013+/-0.244 $\chi^2$/NDF:4977.5/23

Right Out: -21.623+/-0.287 $\chi^2$/NDF: 1946.3/23

Left In: -8.689+/-0.248 $\chi^2$/NDF:5021.6/22

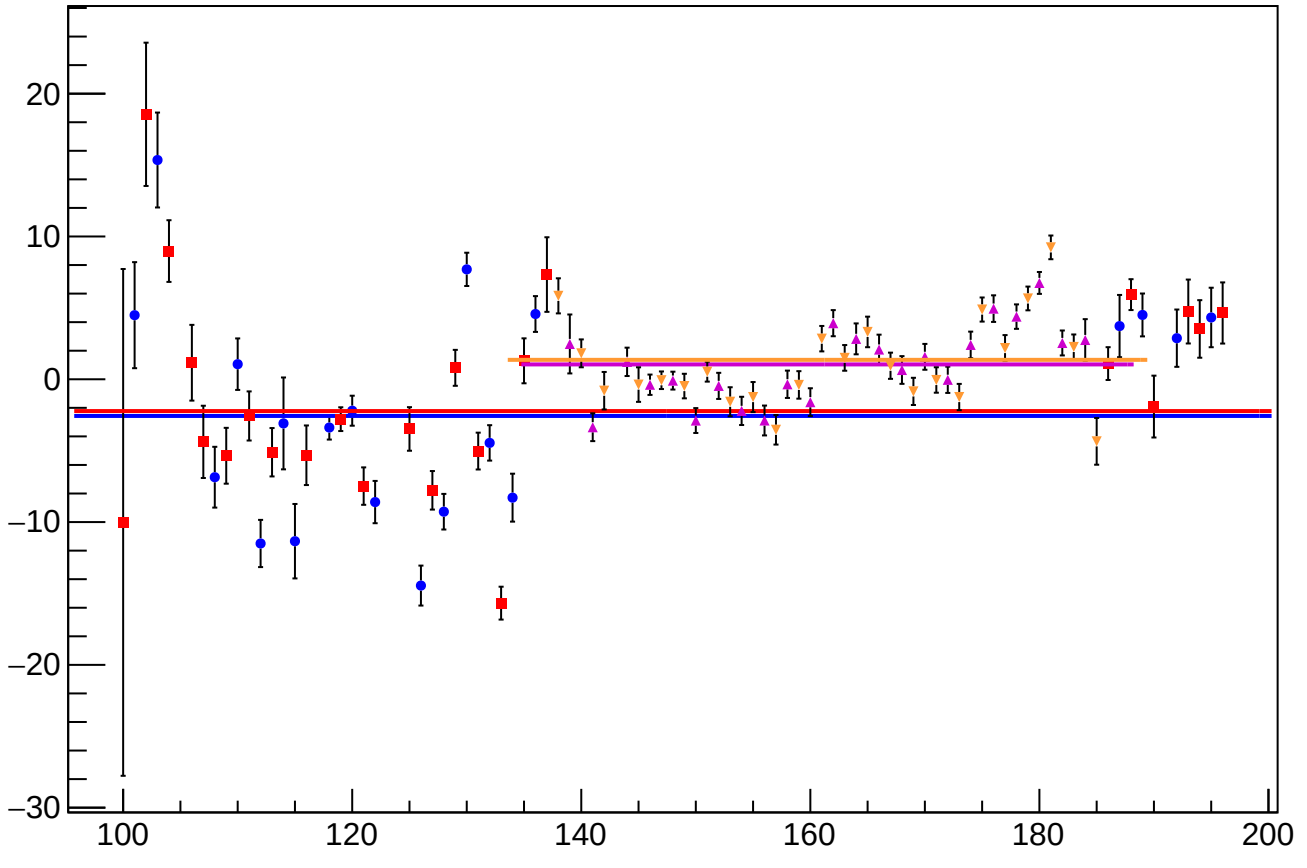
Left: -9.360+/-0.174 $\chi^2$/NDF: 10013.6/46

Right: -22.434+/-0.213 $\chi^2$/NDF: 3624.6/43

In: -14.234+/-0.196 $\chi^2$/NDF:8015.5/42

Out: -14.900+/-0.186 $\chi^2$/NDF:7874.3/47

All: -14.584+/-0.135 $\chi^2$/NDF: 15895.9/90




Right In: -2.568+/-0.338 $\chi^2$/NDF: 372.8/19

Left Out: 1.361+/-0.188 $\chi^2$/NDF:240.3/23

Right Out: -2.226+/-0.320 $\chi^2$/NDF: 347.3/23

Left In: 1.041+/-0.192 $\chi^2$/NDF:196.1/22

Left: 1.204+/-0.135 $\chi^2$/NDF: 437.8/46

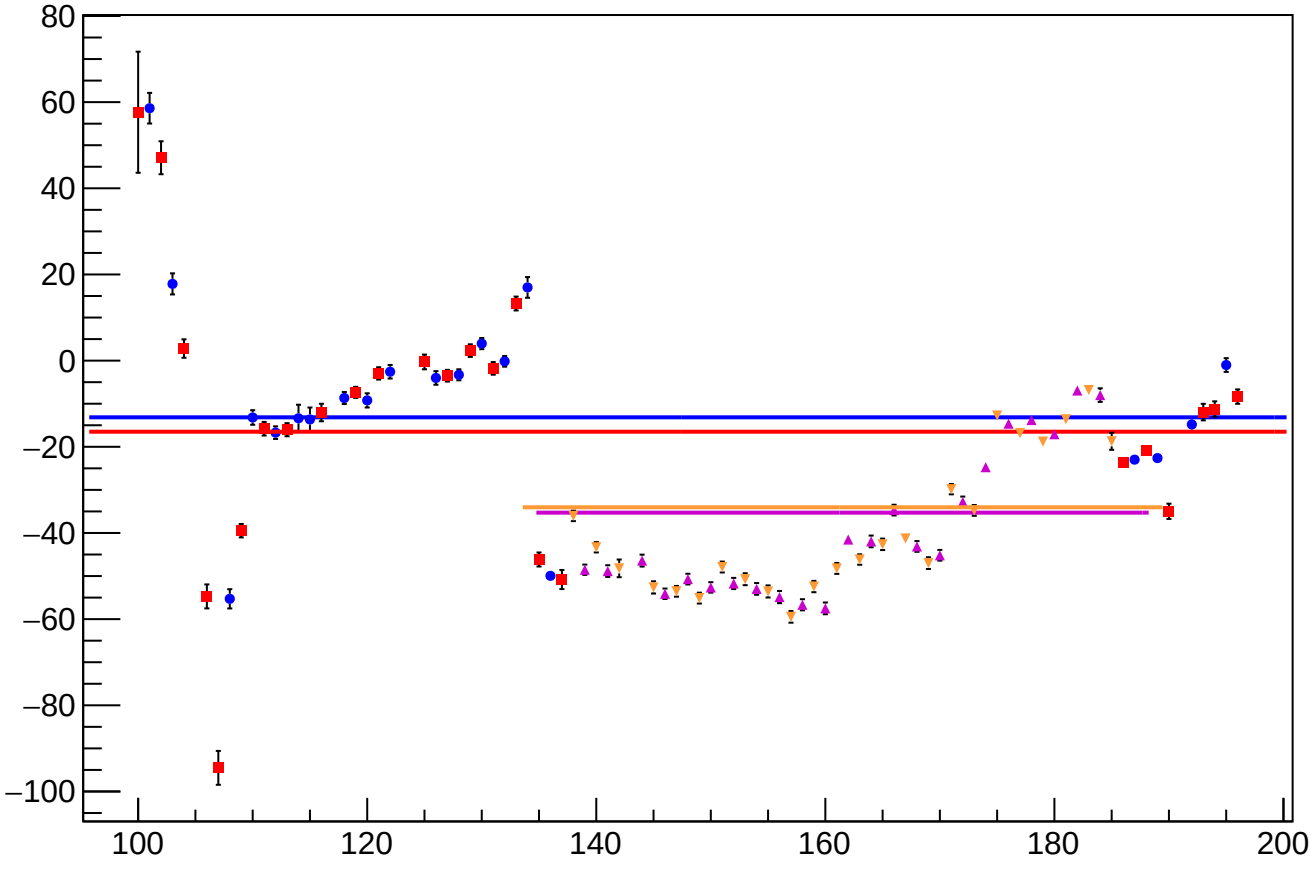
Right: -2.387+/-0.232 $\chi^2$/NDF: 720.7/43

In: 0.159+/-0.167 $\chi^2$/NDF:654.8/42

Out: 0.438+/-0.162 $\chi^2$/NDF:681.0/47

All: 0.303+/-0.116 $\chi^2$/NDF: 1337.3/90

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: -13.157+/-0.345 $\chi^2$/NDF: 2886.4/19

Left Out: -34.036+/-0.243 $\chi^2$/NDF:4965.7/23

Right Out: -16.497+/-0.294 $\chi^2$/NDF: 2987.4/23

Left In: -35.285+/-0.245 $\chi^2$/NDF:4998.0/22

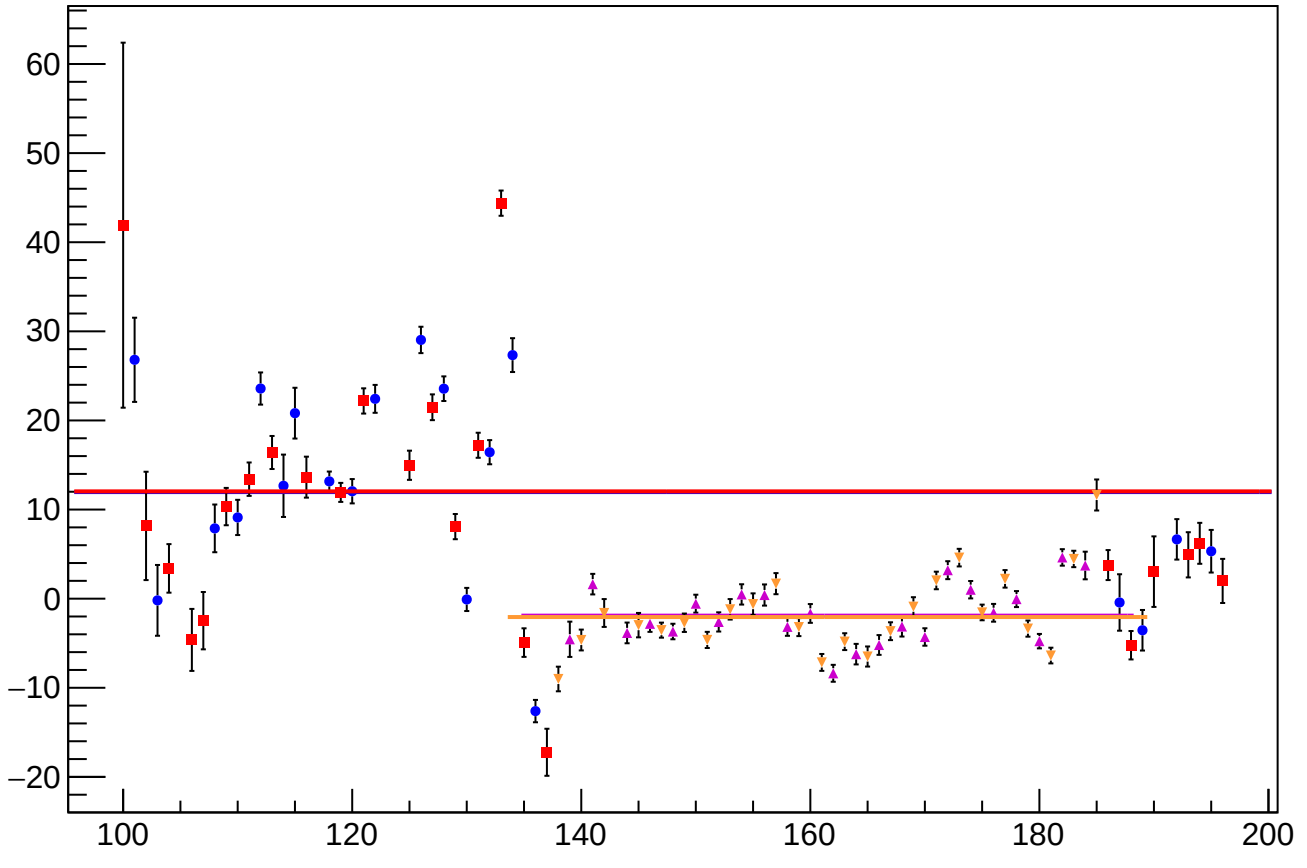
Left: -34.653+/-0.173 $\chi^2$/NDF: 9976.8/46

Right: -15.091+/-0.224 $\chi^2$/NDF: 5928.0/43

In: -27.859+/-0.200 $\chi^2$/NDF:10612.4/42

Out: -26.944+/-0.187 $\chi^2$/NDF:10067.7/47

All: -27.372+/-0.137 $\chi^2$/NDF: 20691.2/90




Right In: 11.962+/-0.393 $\chi^2$/NDF: 945.3/19

Left Out: -2.062+/-0.212 $\chi^2$/NDF:332.4/23

Right Out: 12.041+/-0.380 $\chi^2$/NDF: 1116.1/23

Left In: -1.905+/-0.216 $\chi^2$/NDF:222.1/22

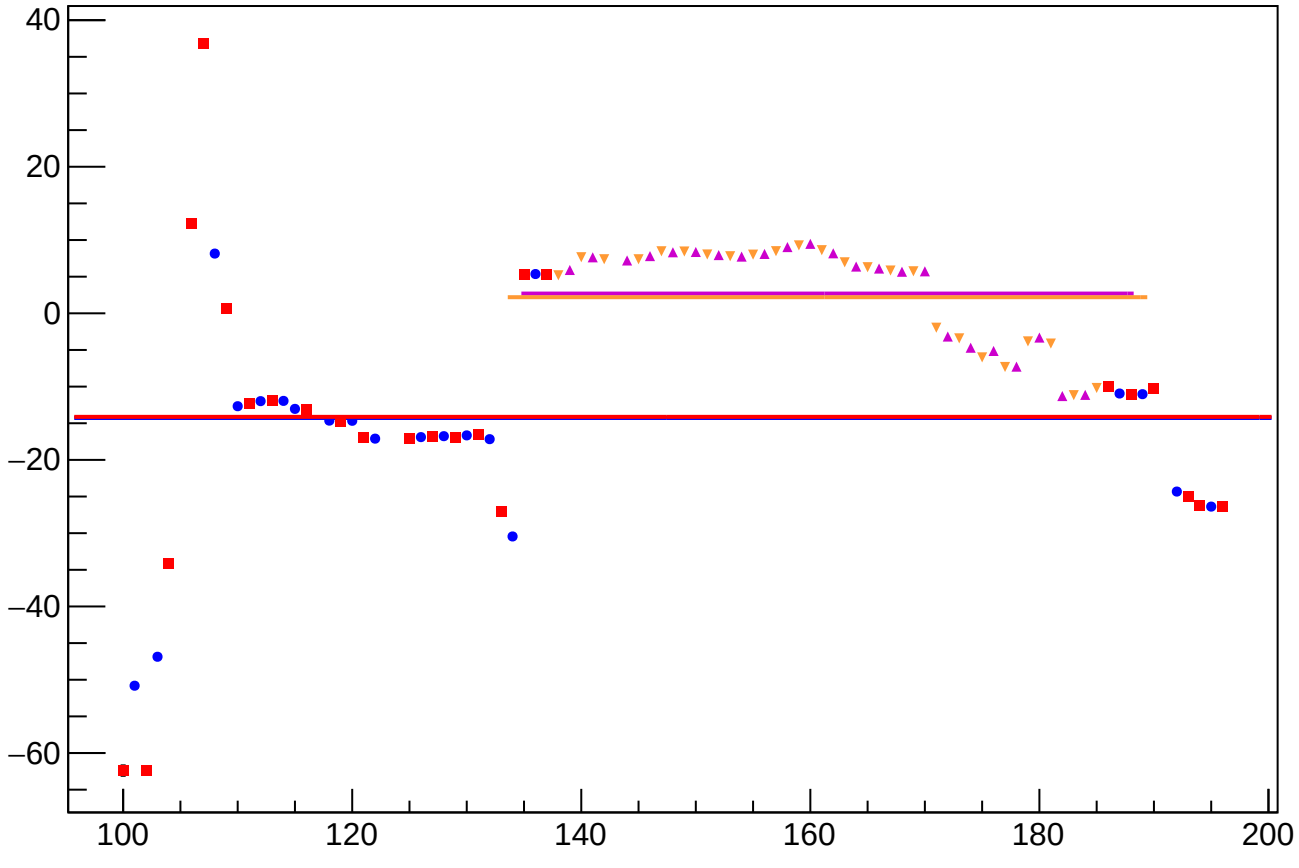
Left: -1.985+/-0.151 $\chi^2$/NDF: 554.7/46

Right: 12.003+/-0.273 $\chi^2$/NDF: 2061.4/43

In: 1.317+/-0.189 $\chi^2$/NDF:2123.4/42

Out: 1.289+/-0.185 $\chi^2$/NDF:2497.6/47

All: 1.303+/-0.132 $\chi^2$/NDF: 4621.0/90




Right In: -14.281+/-0.022 $\chi^2$/NDF: 421187.1/19

Left Out: 2.198+/-0.009 $\chi^2$/NDF:508502.1/23

Right Out: -14.128+/-0.021 $\chi^2$/NDF: 499069.7/23

Left In: 2.694+/-0.010 $\chi^2$/NDF:498824.3/22

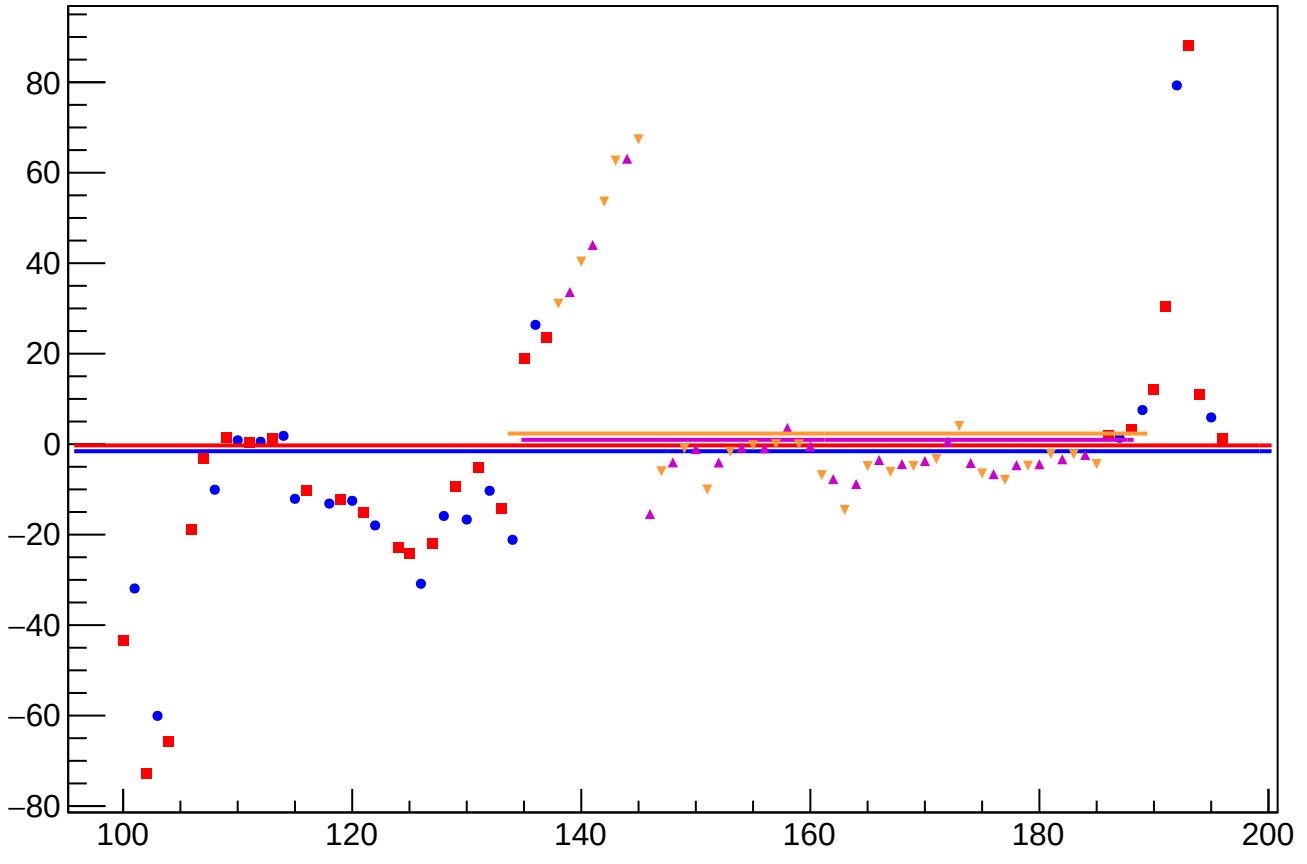
Left: 2.445+/-0.007 $\chi^2$/NDF: 1008683.1/46

Right: -14.201+/-0.015 $\chi^2$/NDF: 920281.3/43

In: 0.092+/-0.009 $\chi^2$/NDF:1403985.9/42

Out: -0.486+/-0.009 $\chi^2$/NDF:1493591.2/47

All: -0.200+/-0.006 $\chi^2$/NDF: 2899769.5/90




Right In: -1.563+/-0.049 $\chi^2$/NDF: 112009.1/19

Left Out: 2.341+/-0.040 $\chi^2$/NDF:176986.1/24

Right Out: -0.276+/-0.040 $\chi^2$/NDF: 114588.8/25

Left In: 0.957+/-0.040 $\chi^2$/NDF:132519.8/22

Left: 1.643+/-0.028 $\chi^2$/NDF: 310101.9/47

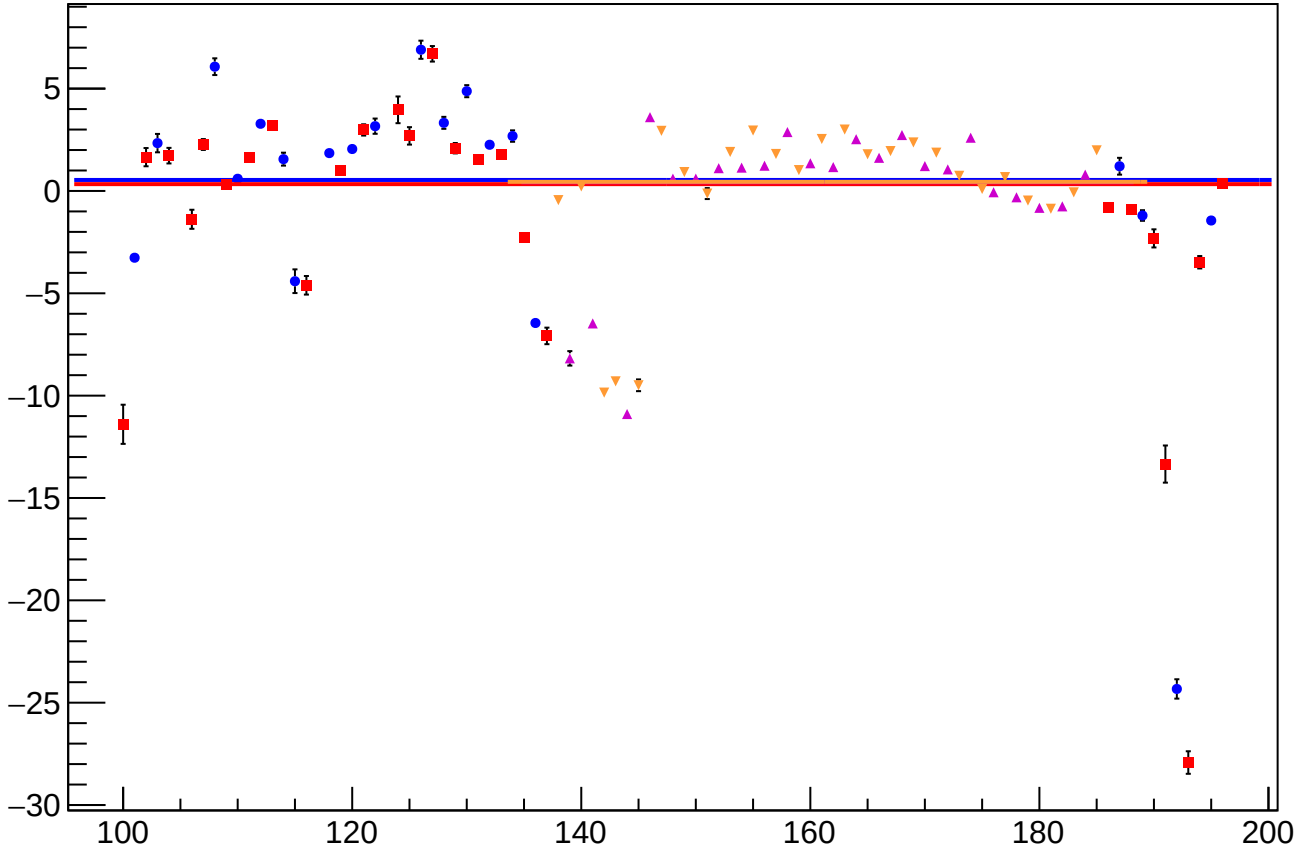
Right: -0.778+/-0.031 $\chi^2$/NDF: 227011.3/45

In: -0.038+/-0.031 $\chi^2$/NDF:246102.0/42

Out: 1.008+/-0.028 $\chi^2$/NDF:293727.3/50

All: 0.535+/-0.021 $\chi^2$/NDF: 540451.2/93

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.537+/-0.056 $\chi^2$/NDF: 5616.5/19

Left Out: 0.446+/-0.033 $\chi^2$/NDF:7044.3/24

Right Out: 0.333+/-0.049 $\chi^2$/NDF: 4912.7/25

Left In: 0.427+/-0.031 $\chi^2$/NDF:7102.3/22

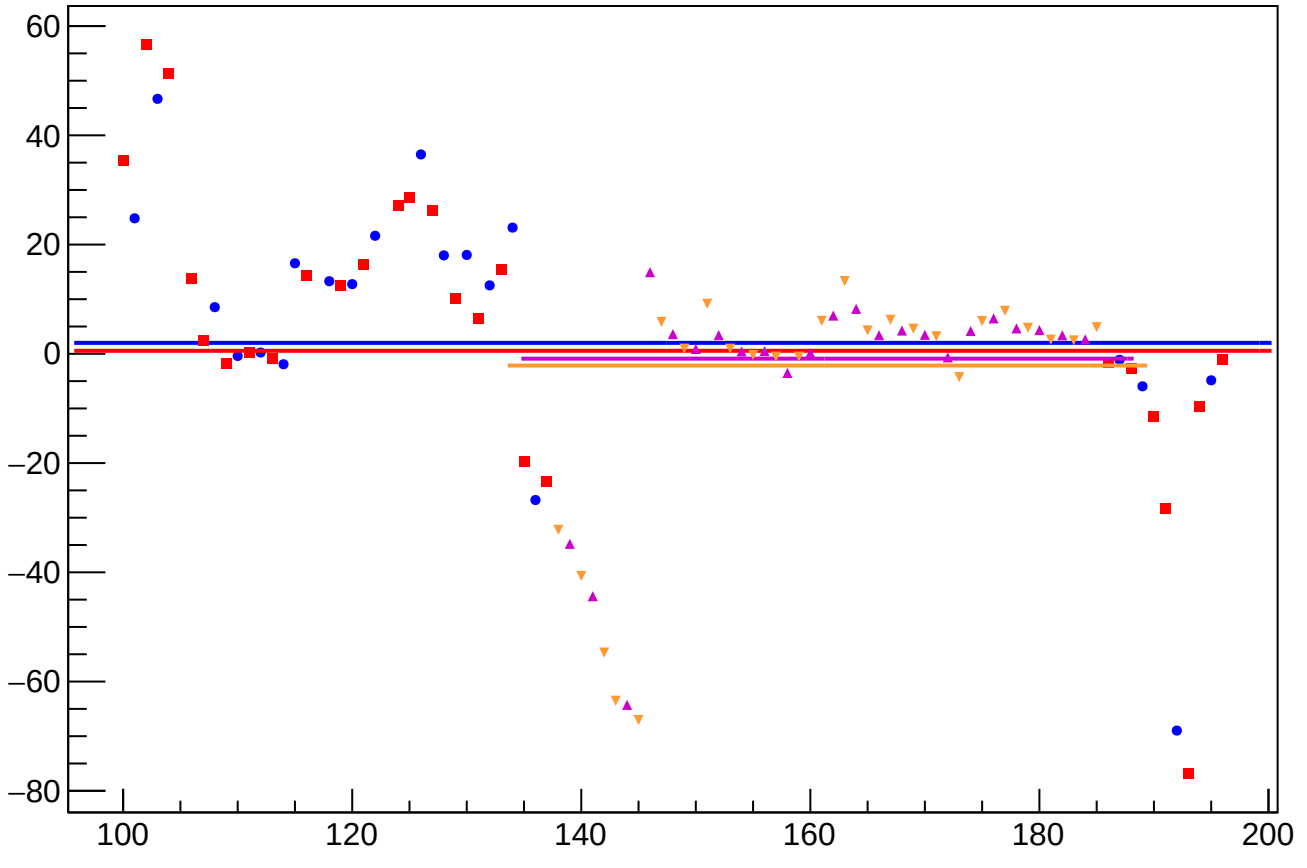
Left: 0.436+/-0.023 $\chi^2$/NDF: 14146.8/47

Right: 0.423+/-0.037 $\chi^2$/NDF: 10536.8/45

In: 0.454+/-0.027 $\chi^2$/NDF:12721.8/42

Out: 0.411+/-0.027 $\chi^2$/NDF:11960.7/50

All: 0.433+/-0.019 $\chi^2$/NDF: 24683.7/93




Right In: 2.008+/-0.054 $\chi^2$/NDF: 110829.1/19

Left Out: -2.143+/-0.040 $\chi^2$/NDF:171271.2/24

Right Out: 0.555+/-0.043 $\chi^2$/NDF: 112924.0/25

Left In: -0.881+/-0.039 $\chi^2$/NDF:129197.8/22

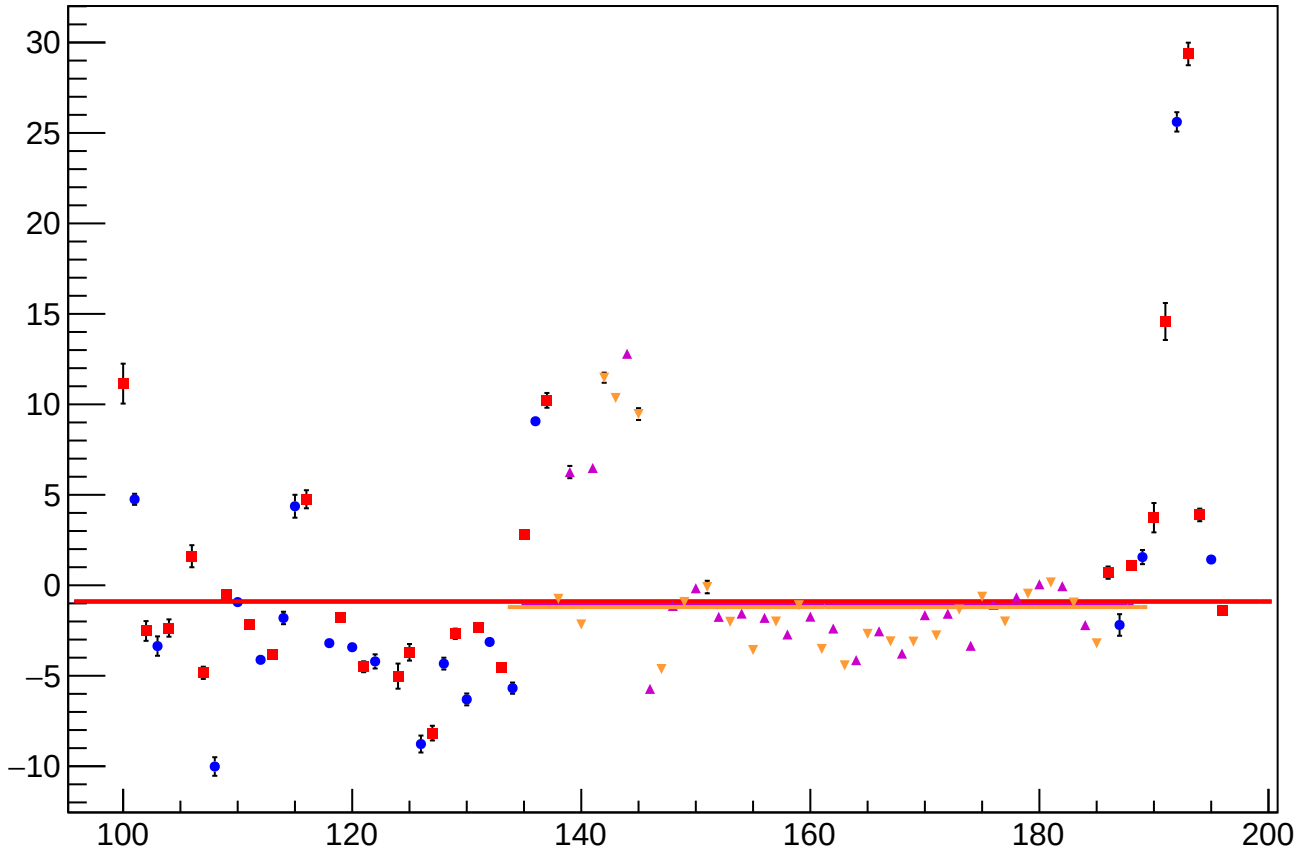
Left: -1.498+/-0.028 $\chi^2$/NDF: 300971.3/47

Right: 1.116+/-0.034 $\chi^2$/NDF: 224190.6/45

In: 0.111+/-0.032 $\chi^2$/NDF:241878.5/42

Out: -0.888+/-0.029 $\chi^2$/NDF:286284.8/50

All: -0.428+/-0.022 $\chi^2$/NDF: 528693.3/93




Right In: -0.901+/-0.065 $\chi^2$/NDF: 7233.5/19

Left Out: -1.206+/-0.036 $\chi^2$/NDF:7003.0/24

Right Out: -0.888+/-0.058 $\chi^2$/NDF: 5498.0/25

Left In: -1.094+/-0.035 $\chi^2$/NDF:7029.2/22

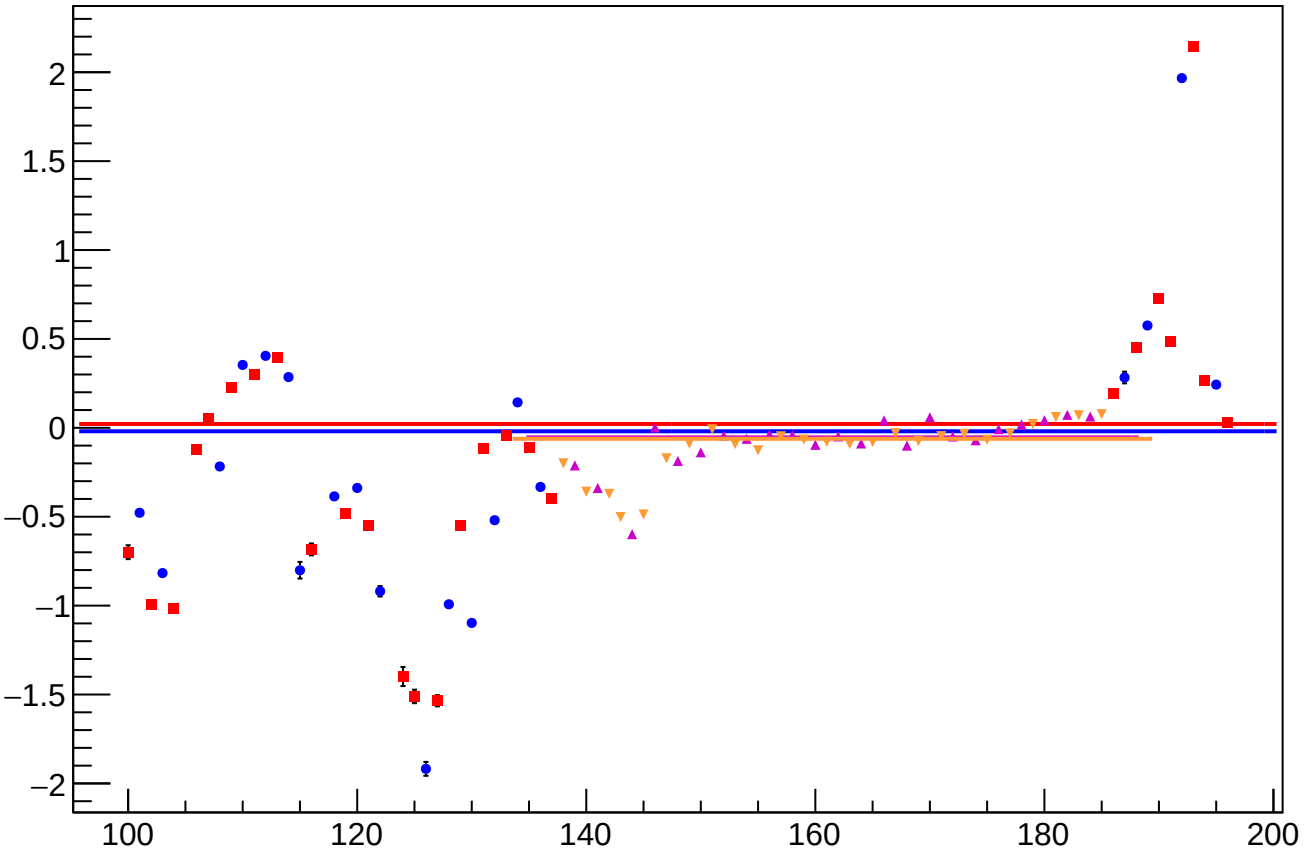
Left: -1.147+/-0.025 $\chi^2$/NDF: 14037.2/47

Right: -0.894+/-0.043 $\chi^2$/NDF: 12731.6/45

In: -1.050+/-0.031 $\chi^2$/NDF:14269.5/42

Out: -1.116+/-0.031 $\chi^2$/NDF:12522.7/50

All: -1.083+/-0.022 $\chi^2$/NDF: 26794.5/93




Right In: -0.019+/-0.003 $\chi^2$/NDF: 32196.2/19

Left Out: -0.062+/-0.002 $\chi^2$/NDF:5711.9/24

Right Out: 0.022+/-0.003 $\chi^2$/NDF: 32771.1/25

Left In: -0.054+/-0.001 $\chi^2$/NDF:5029.9/22

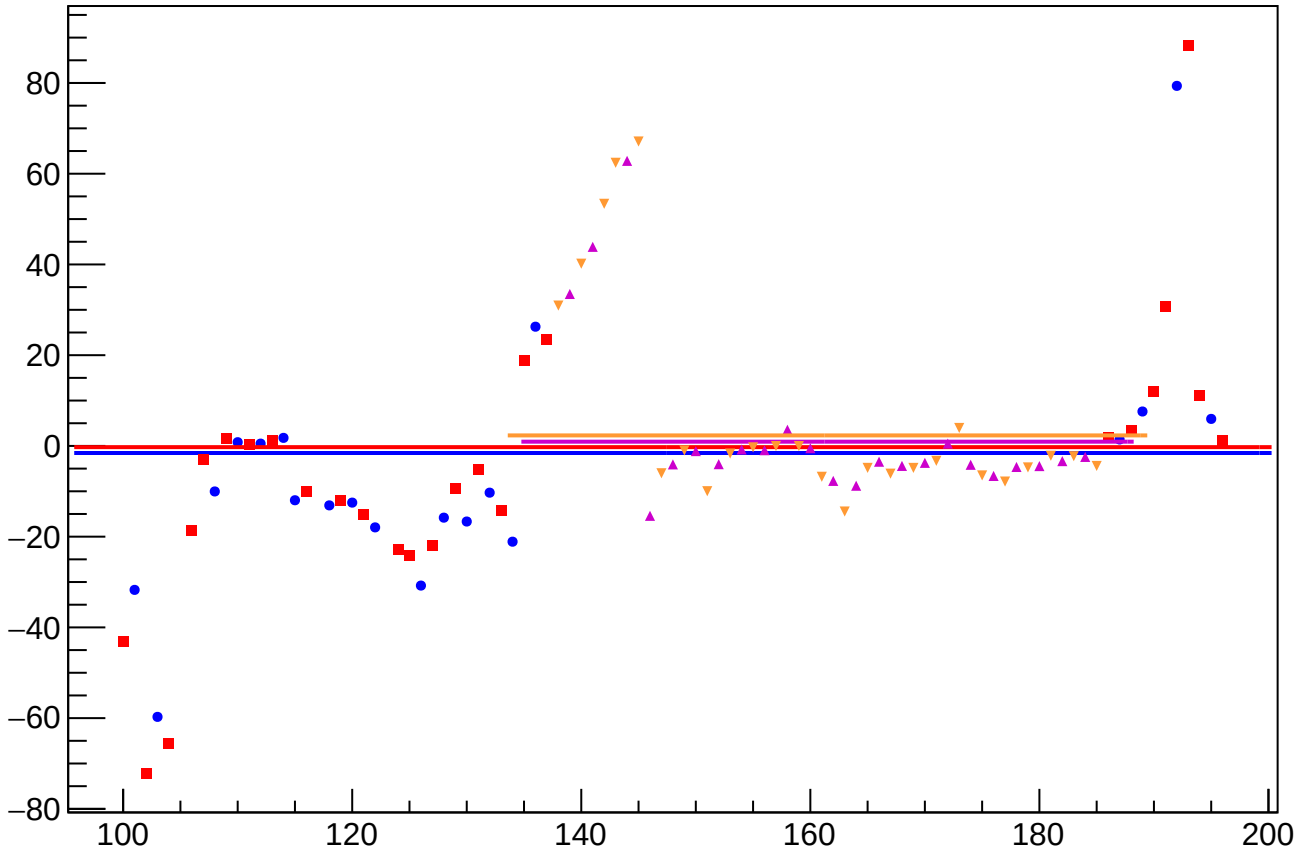
Left: -0.058+/-0.001 $\chi^2$/NDF: 10754.7/47

Right: 0.004+/-0.002 $\chi^2$/NDF: 65049.2/45

In: -0.048+/-0.001 $\chi^2$/NDF:37312.3/42

Out: -0.044+/-0.001 $\chi^2$/NDF:39084.1/50

All: -0.046+/-0.001 $\chi^2$/NDF: 76402.3/93




Right In: -1.560+/-0.049 $\chi^2$/NDF: 112348.9/19

Left Out: 2.318+/-0.040 $\chi^2$/NDF:176746.3/24

Right Out: -0.268+/-0.039 $\chi^2$/NDF: 114965.4/25

Left In: 0.935+/-0.040 $\chi^2$/NDF:132405.3/22

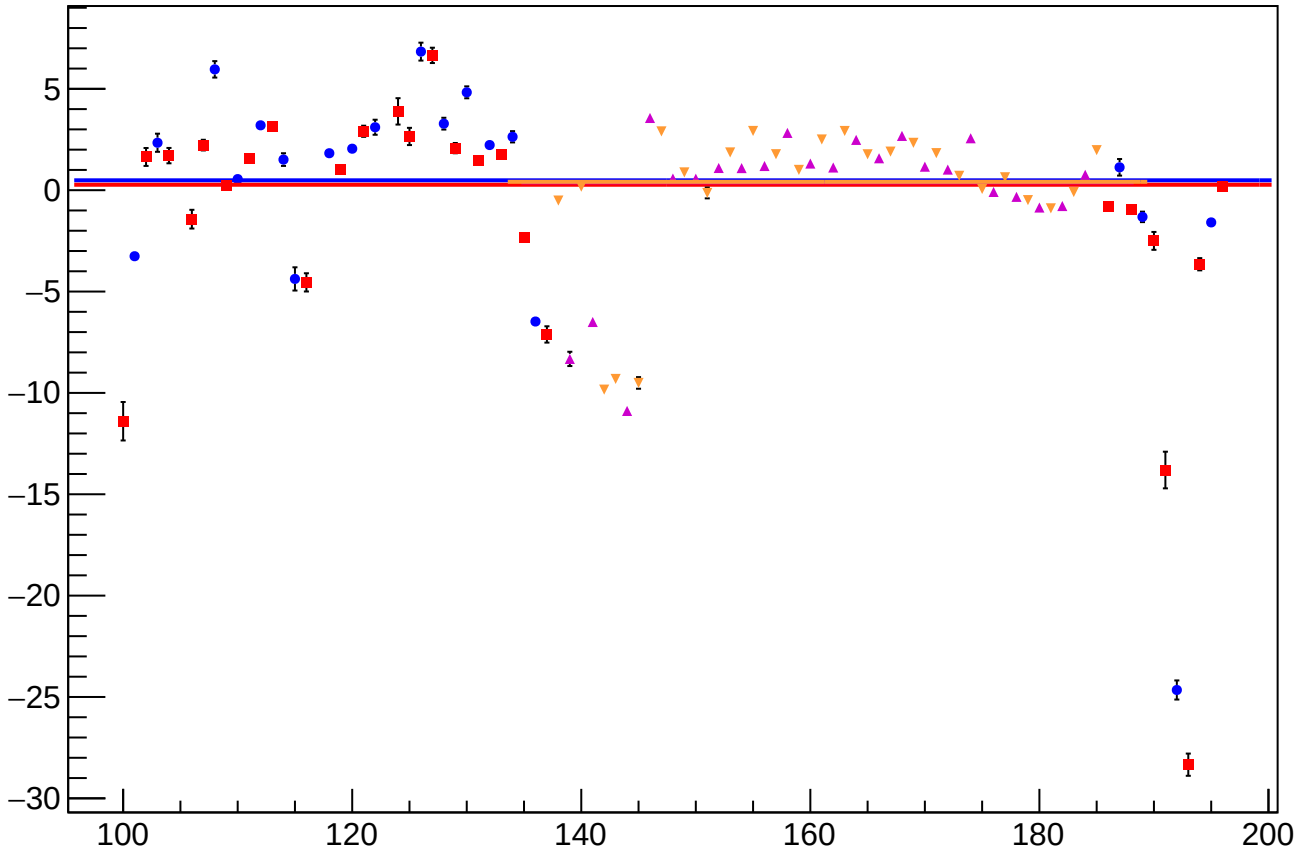
Left: 1.621+/-0.028 $\chi^2$/NDF: 309750.0/47

Right: -0.771+/-0.031 $\chi^2$/NDF: 227735.9/45

In: -0.053+/-0.031 $\chi^2$/NDF:246309.6/42

Out: 0.996+/-0.028 $\chi^2$/NDF:293834.5/50

All: 0.522+/-0.021 $\chi^2$/NDF: 540775.2/93




Right In: 0.488+/-0.055 $\chi^2$/NDF: 5720.4/19

Left Out: 0.414+/-0.033 $\chi^2$/NDF:7047.2/24

Right Out: 0.269+/-0.049 $\chi^2$/NDF: 5053.9/25

Left In: 0.389+/-0.031 $\chi^2$/NDF:7114.2/22

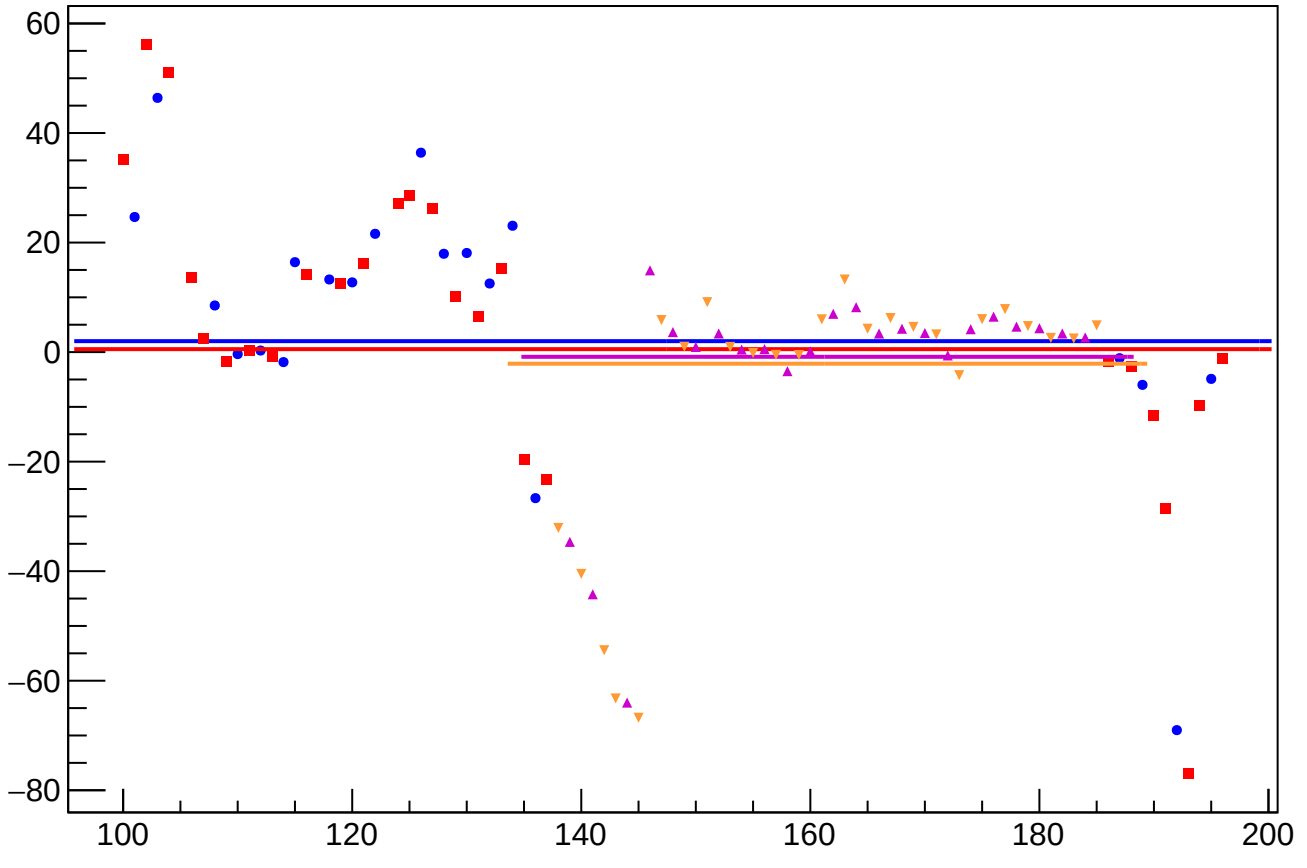
Left: 0.401+/-0.023 $\chi^2$/NDF: 14161.7/47

Right: 0.366+/-0.037 $\chi^2$/NDF: 10783.1/45

In: 0.413+/-0.027 $\chi^2$/NDF:12837.0/42

Out: 0.369+/-0.027 $\chi^2$/NDF:12107.2/50

All: 0.391+/-0.019 $\chi^2$/NDF: 24945.5/93




Right In: 2.000+/-0.054 $\chi^2$/NDF: 111160.2/19

Left Out: -2.119+/-0.040 $\chi^2$/NDF:171039.7/24

Right Out: 0.539+/-0.043 $\chi^2$/NDF: 113299.1/25

Left In: -0.859+/-0.039 $\chi^2$/NDF:129084.9/22

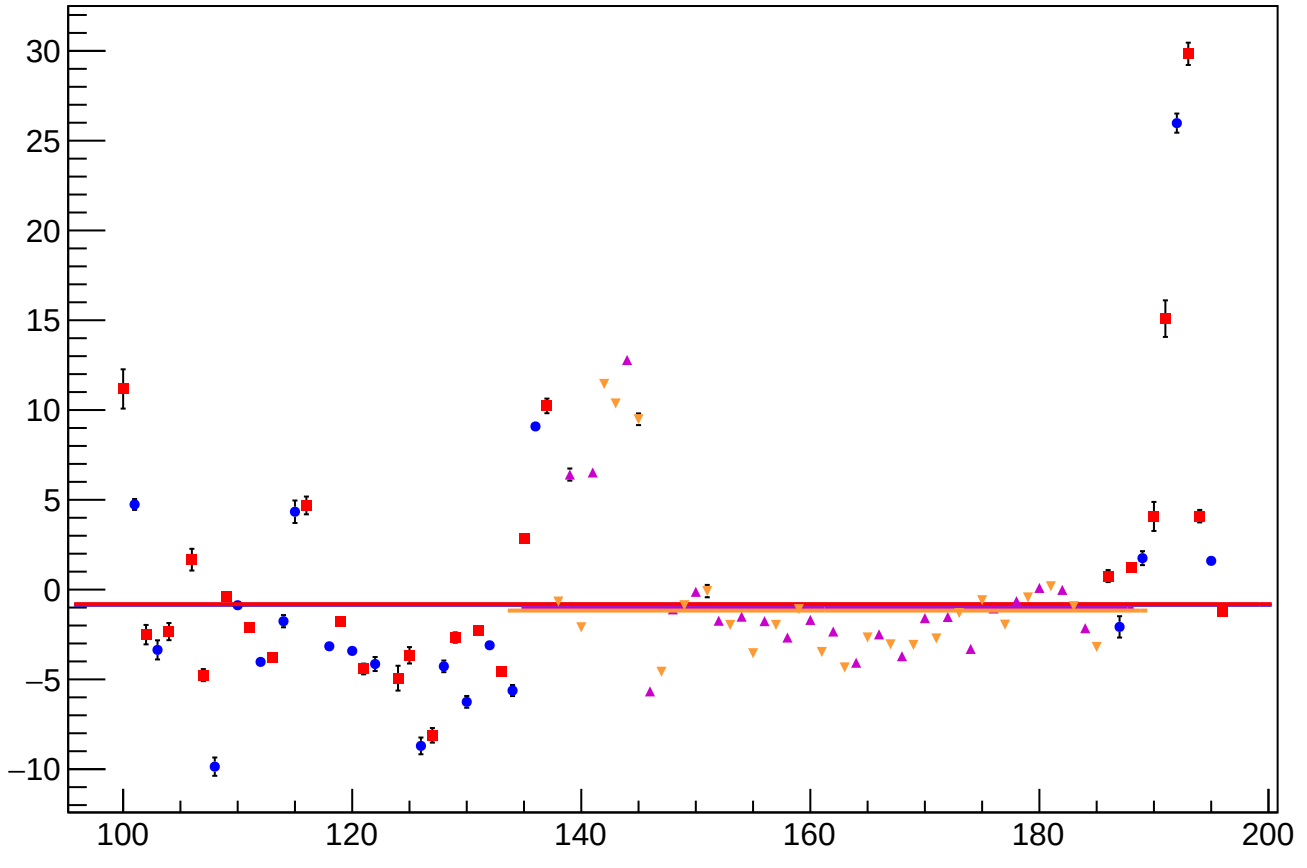
Left: -1.475+/-0.028 $\chi^2$/NDF: 300629.4/47

Right: 1.102+/-0.034 $\chi^2$/NDF: 224907.2/45

In: 0.126+/-0.032 $\chi^2$/NDF:242073.1/42

Out: -0.877+/-0.029 $\chi^2$/NDF:286389.8/50

All: -0.416+/-0.022 $\chi^2$/NDF: 529002.4/93




Right In: -0.841+/-0.064 $\chi^2$/NDF: 7329.9/19

Left Out: -1.167+/-0.036 $\chi^2$/NDF:7001.4/24

Right Out: -0.811+/-0.058 $\chi^2$/NDF: 5633.4/25

Left In: -1.048+/-0.035 $\chi^2$/NDF:7040.7/22

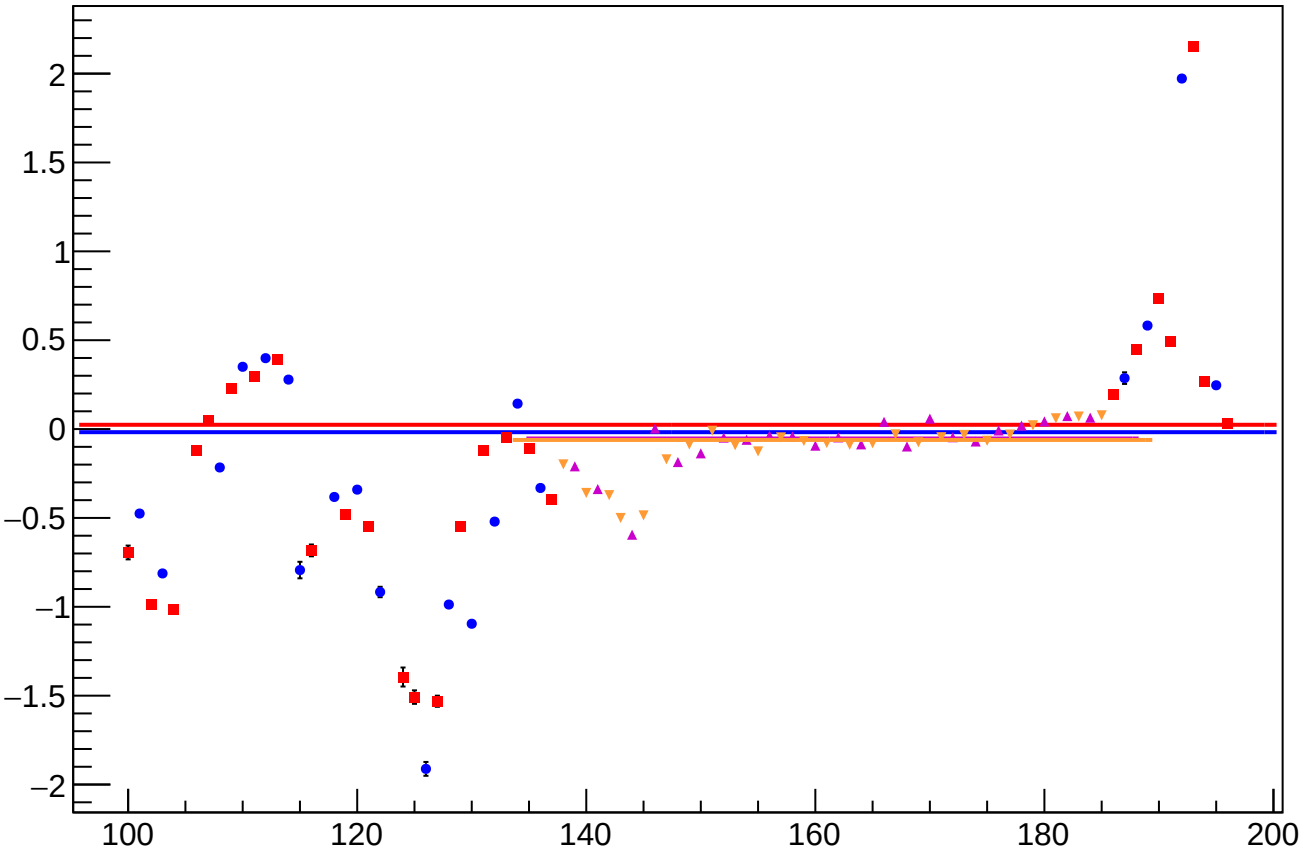
Left: -1.105+/-0.025 $\chi^2$/NDF: 14047.8/47

Right: -0.824+/-0.043 $\chi^2$/NDF: 12963.4/45

In: -1.002+/-0.031 $\chi^2$/NDF:14378.6/42

Out: -1.067+/-0.031 $\chi^2$/NDF:12662.2/50

All: -1.034+/-0.022 $\chi^2$/NDF: 27043.1/93




Right In: -0.017+/-0.003 $\chi^2$/NDF: 32441.8/19

Left Out: -0.061+/-0.002 $\chi^2$/NDF:5729.4/24

Right Out: 0.024+/-0.003 $\chi^2$/NDF: 33044.4/25

Left In: -0.053+/-0.001 $\chi^2$/NDF:5006.2/22

Left: -0.057+/-0.001 $\chi^2$/NDF: 10749.6/47

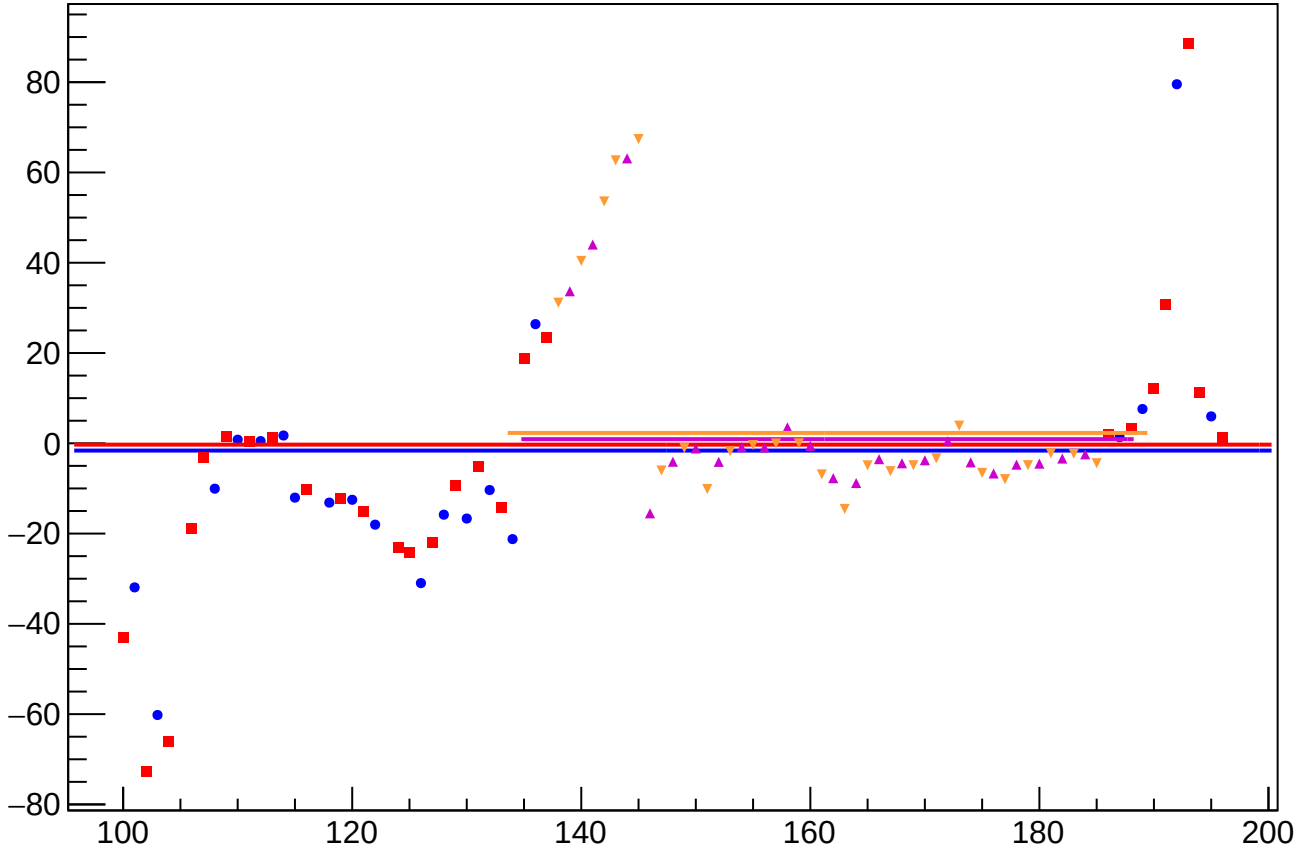
Right: 0.006+/-0.002 $\chi^2$/NDF: 65570.8/45

In: -0.047+/-0.001 $\chi^2$/NDF:37540.4/42

Out: -0.043+/-0.001 $\chi^2$/NDF:39407.8/50

All: -0.045+/-0.001 $\chi^2$/NDF: 76954.0/93

reg_asym_bcm_an_us_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.610+/-0.049 $\chi^2$/NDF: 112339.5/19

Left Out: 2.296+/-0.040 $\chi^2$/NDF:177186.2/24

Right Out: -0.298+/-0.039 $\chi^2$/NDF: 114973.3/25

Left In: 0.912+/-0.040 $\chi^2$/NDF:132573.8/22

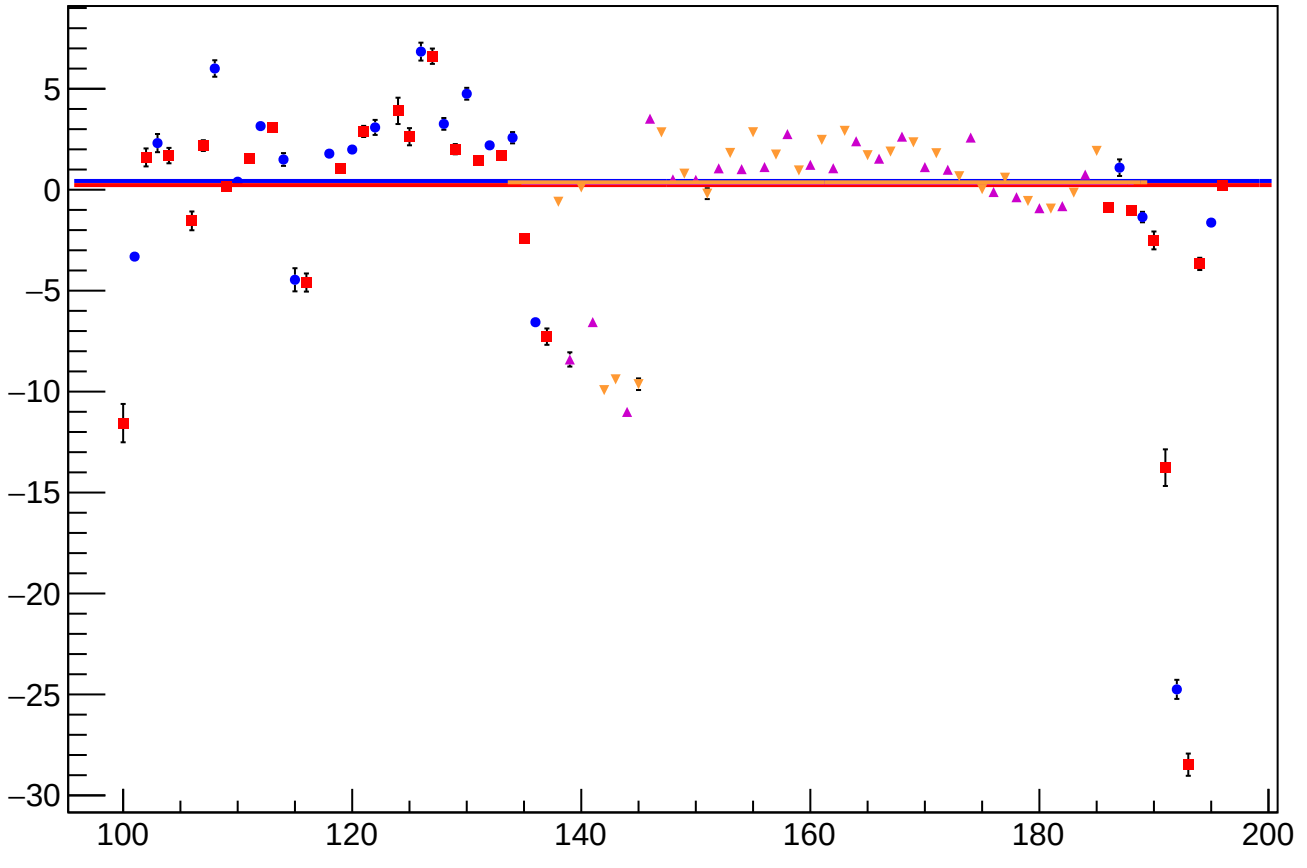
Left: 1.598+/-0.028 $\chi^2$/NDF: 310354.3/47

Right: -0.808+/-0.031 $\chi^2$/NDF: 227743.1/45

In: -0.084+/-0.031 $\chi^2$/NDF:246486.8/42

Out: 0.972+/-0.028 $\chi^2$/NDF:294274.1/50

All: 0.495+/-0.021 $\chi^2$/NDF: 541393.8/93




Right In: 0.434+/-0.056 $\chi^2$/NDF: 5714.0/19

Left Out: 0.368+/-0.033 $\chi^2$/NDF:7068.0/24

Right Out: 0.229+/-0.049 $\chi^2$/NDF: 5054.7/25

Left In: 0.337+/-0.031 $\chi^2$/NDF:7094.3/22

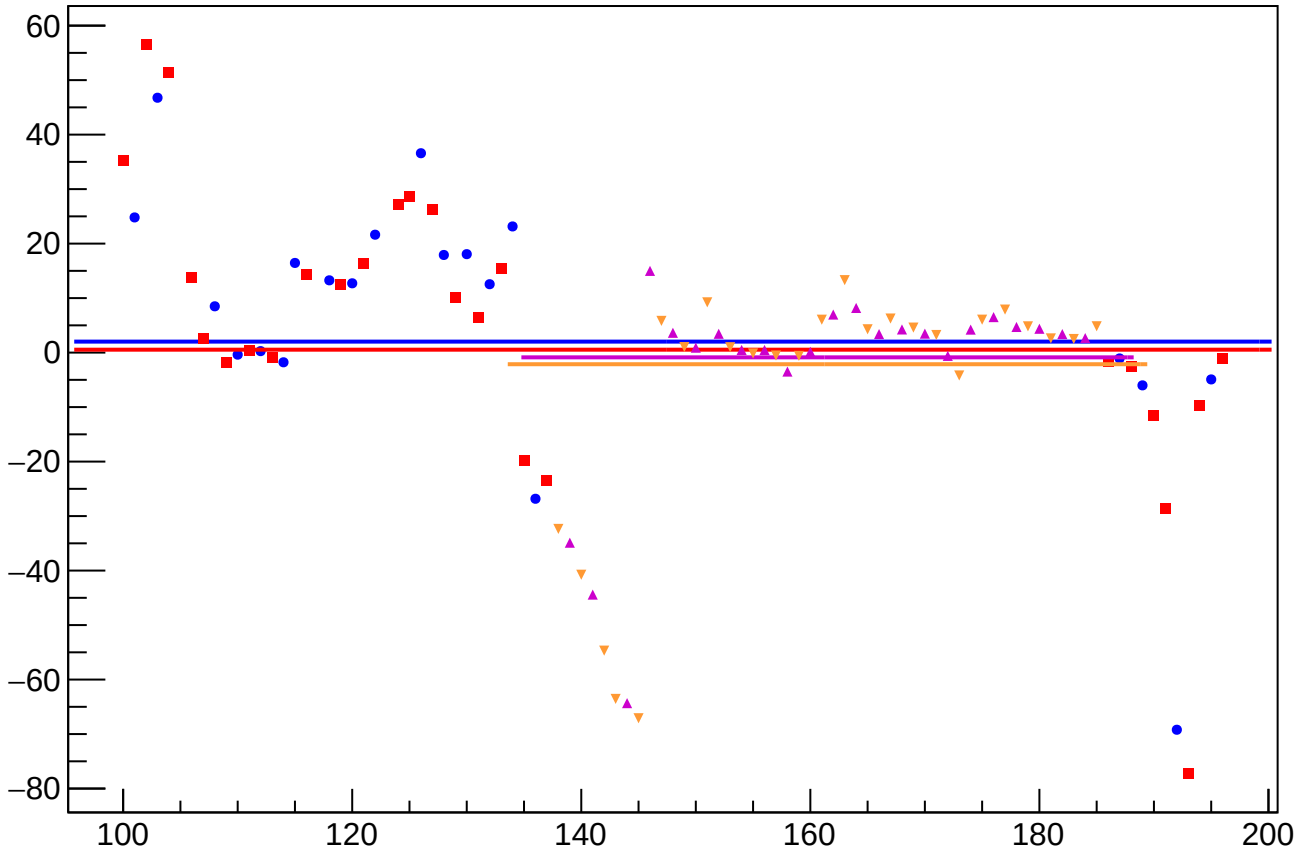
Left: 0.351+/-0.023 $\chi^2$/NDF: 14162.7/47

Right: 0.320+/-0.037 $\chi^2$/NDF: 10776.4/45

In: 0.360+/-0.027 $\chi^2$/NDF:12810.7/42

Out: 0.325+/-0.027 $\chi^2$/NDF:12128.2/50

All: 0.343+/-0.019 $\chi^2$/NDF: 24939.6/93




Right In: 2.017+/-0.054 $\chi^2$/NDF: 111169.3/19

Left Out: -2.133+/-0.040 $\chi^2$/NDF:171466.8/24

Right Out: 0.535+/-0.043 $\chi^2$/NDF: 113332.4/25

Left In: -0.871+/-0.039 $\chi^2$/NDF:129263.4/22

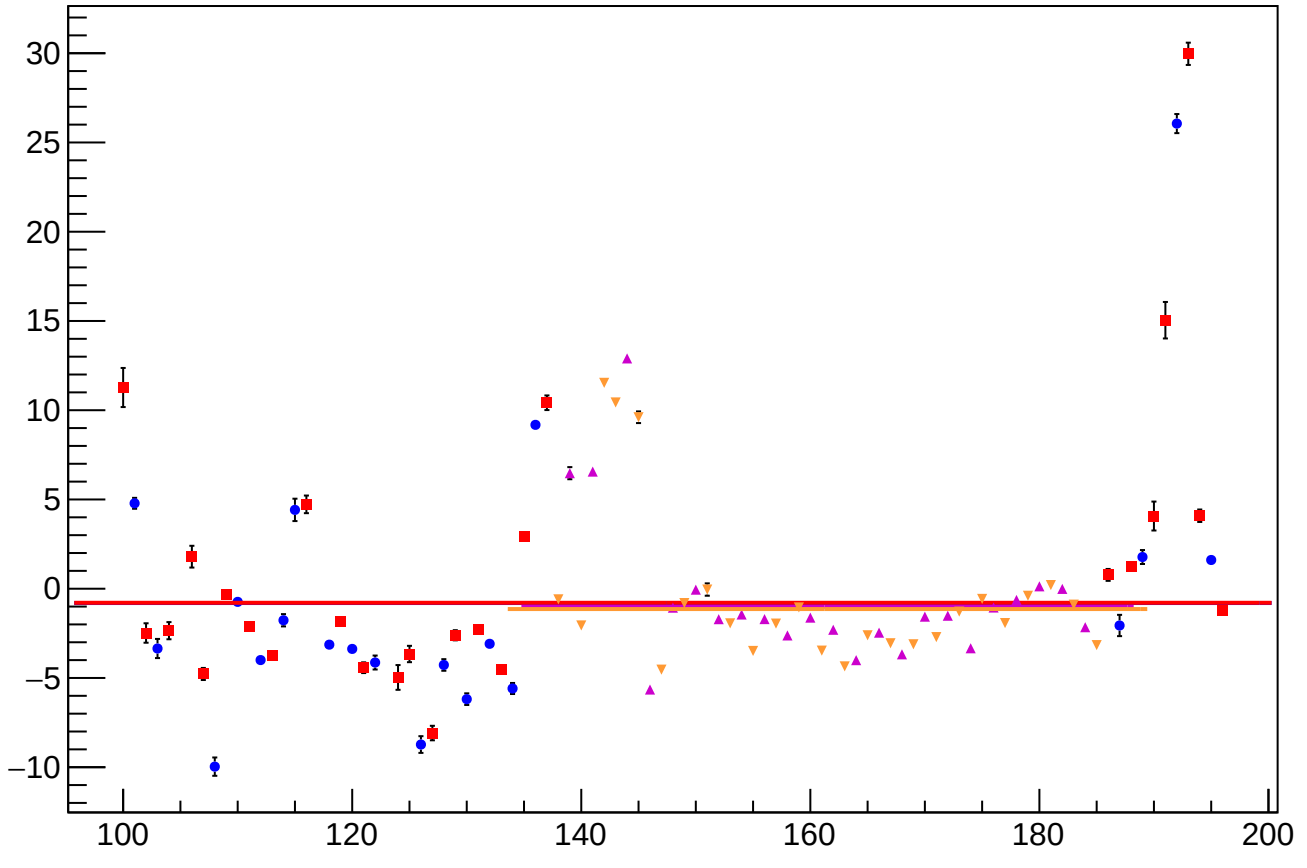
Left: -1.488+/-0.028 $\chi^2$/NDF: 301231.6/47

Right: 1.105+/-0.034 $\chi^2$/NDF: 224958.3/45

In: 0.121+/-0.032 $\chi^2$/NDF:242281.8/42

Out: -0.885+/-0.029 $\chi^2$/NDF:286850.2/50

All: -0.423+/-0.022 $\chi^2$/NDF: 529670.6/93




Right In: -0.802+/-0.065 $\chi^2$/NDF: 7327.9/19

Left Out: -1.140+/-0.036 $\chi^2$/NDF:7022.9/24

Right Out: -0.788+/-0.058 $\chi^2$/NDF: 5645.5/25

Left In: -1.013+/-0.035 $\chi^2$/NDF:7027.2/22

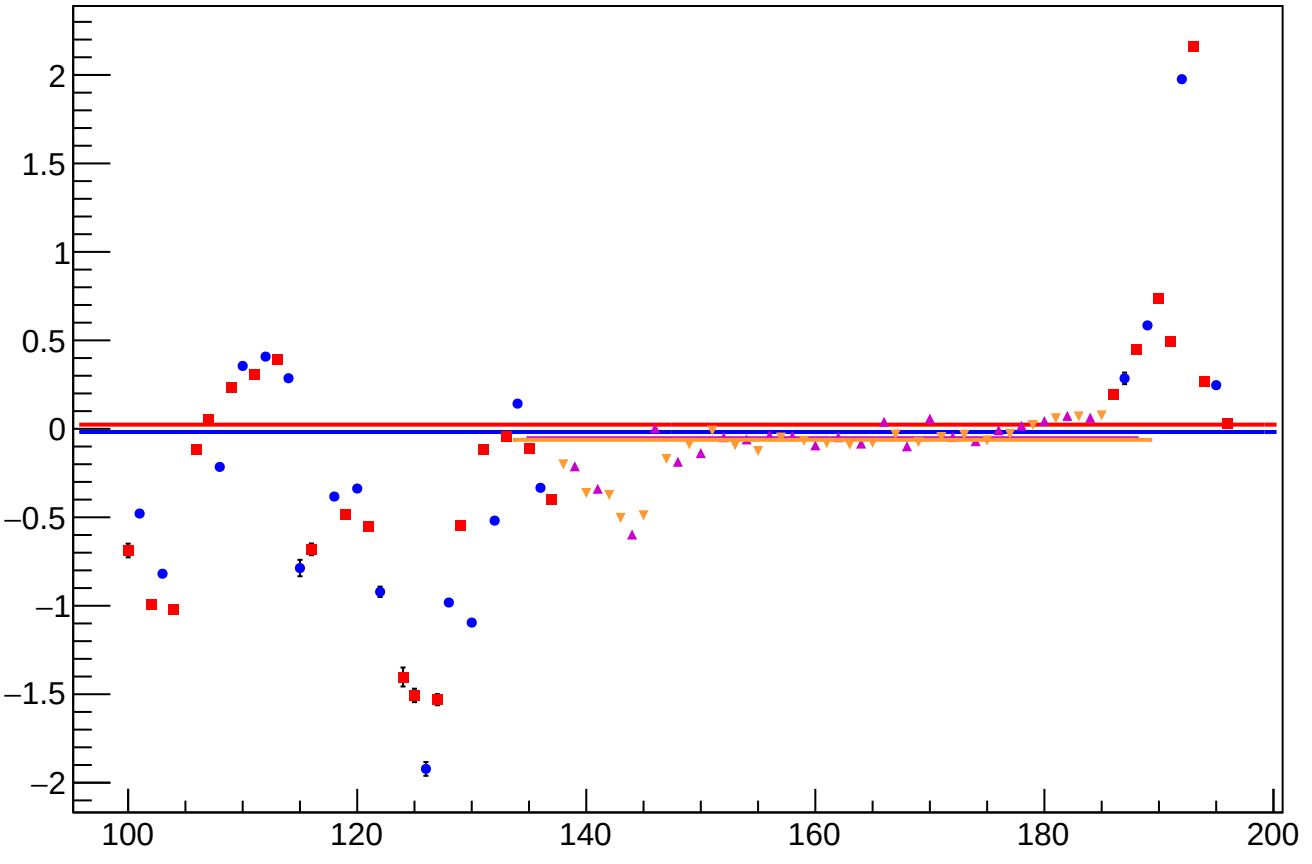
Left: -1.074+/-0.025 $\chi^2$/NDF: 14056.4/47

Right: -0.794+/-0.043 $\chi^2$/NDF: 12973.5/45

In: -0.966+/-0.031 $\chi^2$/NDF:14363.4/42

Out: -1.040+/-0.031 $\chi^2$/NDF:12694.9/50

All: -1.003+/-0.022 $\chi^2$/NDF: 27061.2/93




Right In: -0.018+/-0.003 $\chi^2$/NDF: 32433.7/19

Left Out: -0.062+/-0.002 $\chi^2$/NDF:5736.1/24

Right Out: 0.024+/-0.003 $\chi^2$/NDF: 33003.7/25

Left In: -0.053+/-0.001 $\chi^2$/NDF:4993.7/22

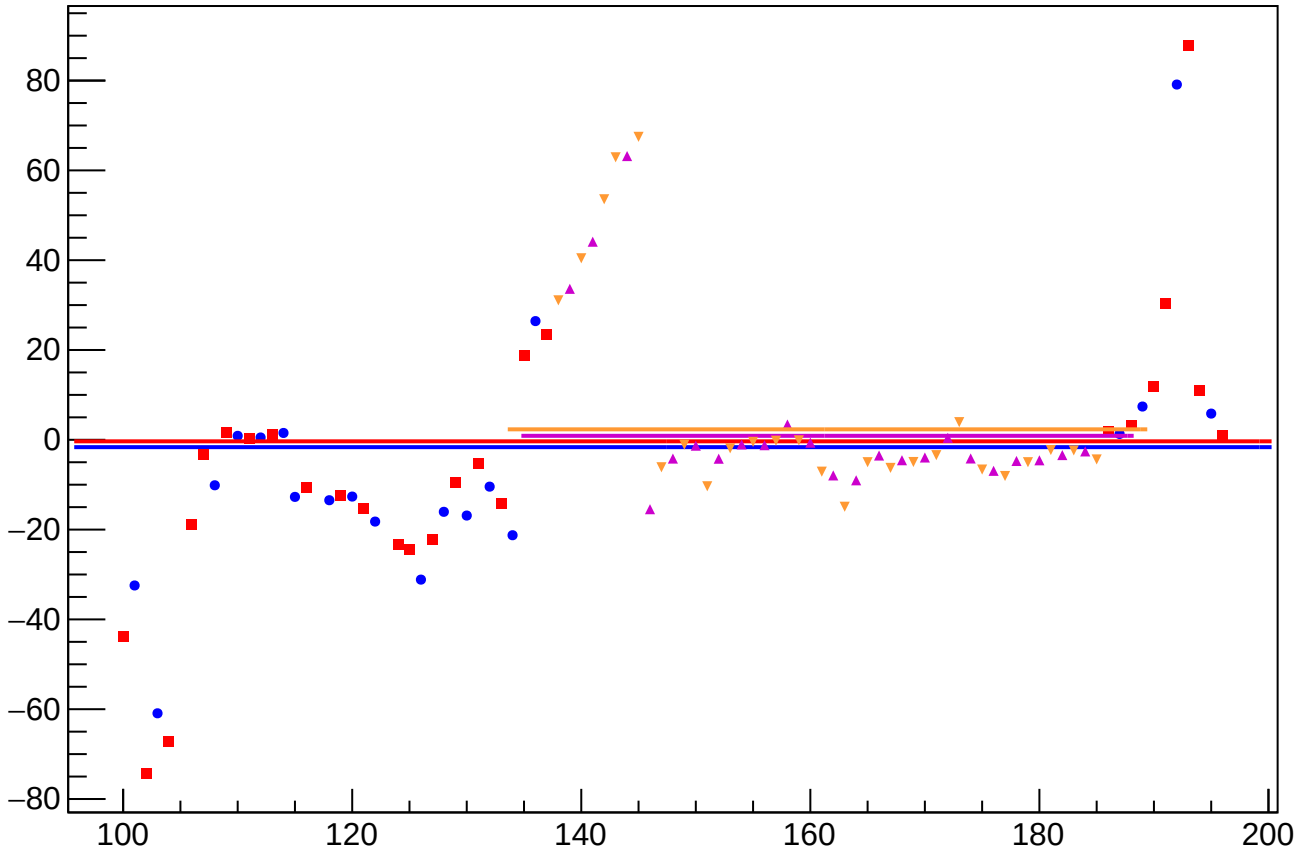
Left: -0.057+/-0.001 $\chi^2$/NDF: 10746.2/47

Right: 0.005+/-0.002 $\chi^2$/NDF: 65520.8/45

In: -0.048+/-0.001 $\chi^2$/NDF:37518.6/42

Out: -0.043+/-0.001 $\chi^2$/NDF:39375.9/50

All: -0.046+/-0.001 $\chi^2$/NDF: 76898.9/93




Right In: -1.639+/-0.050 $\chi^2$/NDF: 110700.2/19

Left Out: 2.329+/-0.041 $\chi^2$/NDF:174647.6/24

Right Out: -0.341+/-0.040 $\chi^2$/NDF: 113441.8/25

Left In: 0.887+/-0.041 $\chi^2$/NDF:130417.3/22

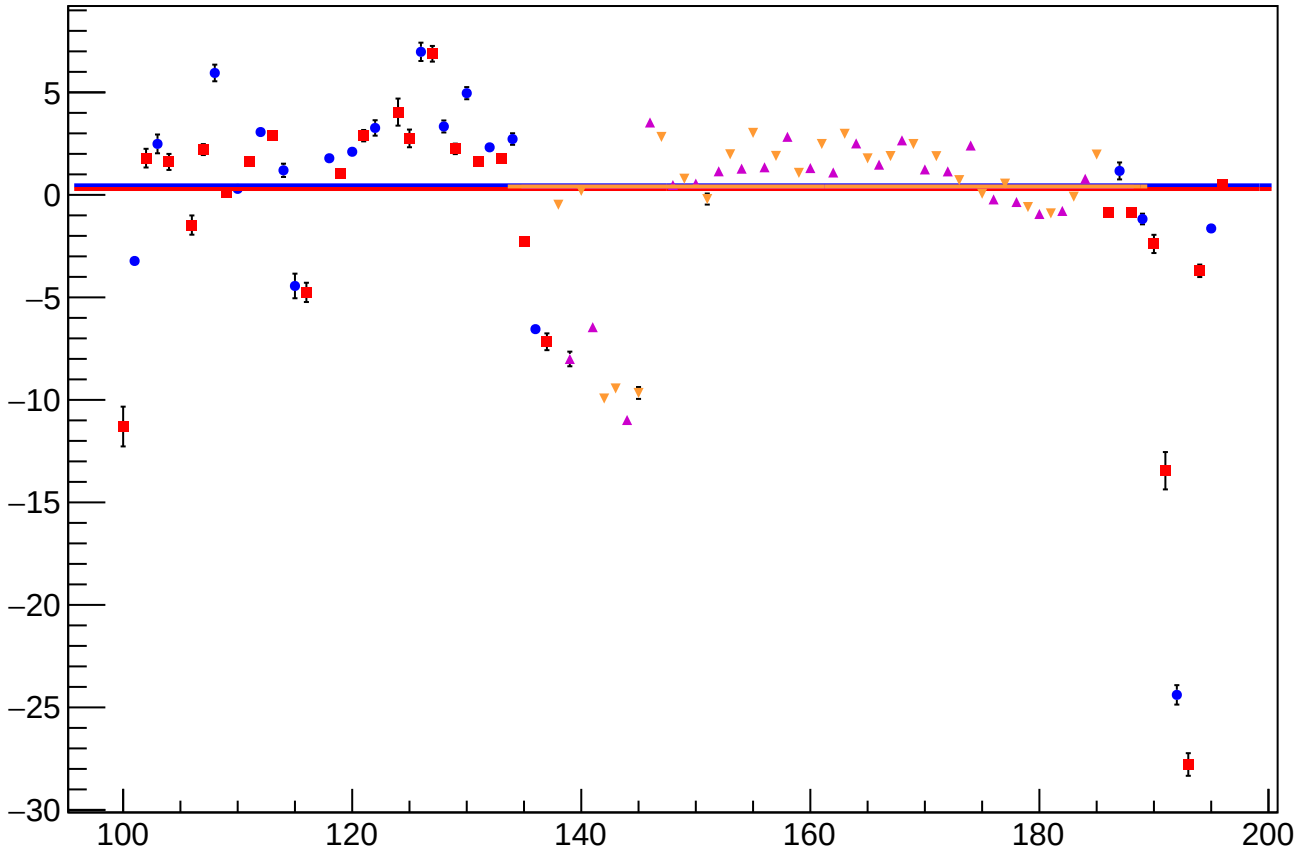
Left: 1.602+/-0.029 $\chi^2$/NDF: 305685.7/47

Right: -0.847+/-0.031 $\chi^2$/NDF: 224549.1/45

In: -0.116+/-0.032 $\chi^2$/NDF:242641.9/42

Out: 0.964+/-0.029 $\chi^2$/NDF:290249.3/50

All: 0.477+/-0.021 $\chi^2$/NDF: 533529.0/93




Right In: 0.464+/-0.056 $\chi^2$/NDF: 5574.2/19

Left Out: 0.410+/-0.033 $\chi^2$/NDF:7047.9/24

Right Out: 0.286+/-0.050 $\chi^2$/NDF: 4839.4/25

Left In: 0.396+/-0.032 $\chi^2$/NDF:6932.0/22

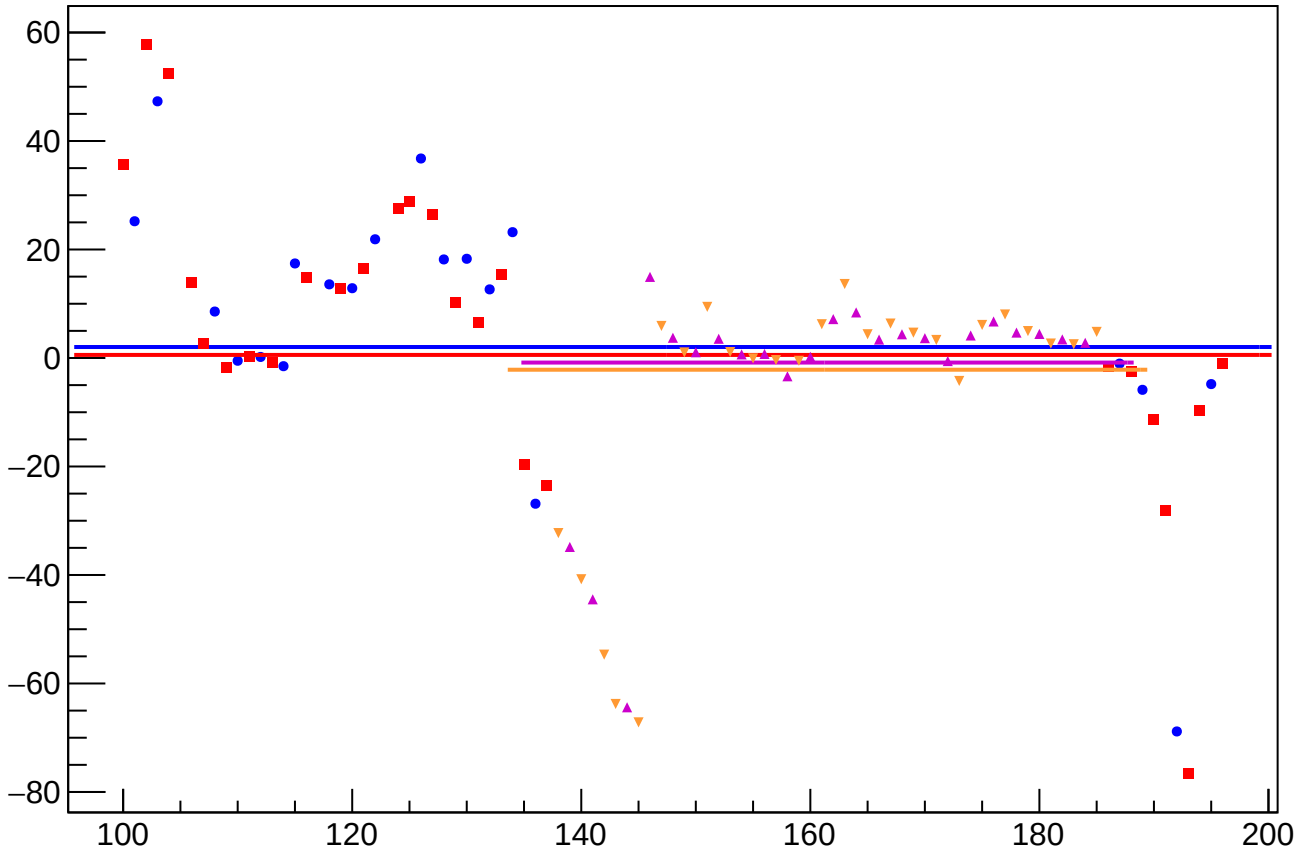
Left: 0.403+/-0.023 $\chi^2$/NDF: 13980.0/47

Right: 0.365+/-0.037 $\chi^2$/NDF: 10419.2/45

In: 0.413+/-0.028 $\chi^2$/NDF:12507.3/42

Out: 0.372+/-0.028 $\chi^2$/NDF:11891.5/50

All: 0.392+/-0.020 $\chi^2$/NDF: 24399.9/93




Right In: 2.024+/-0.055 $\chi^2$/NDF: 109583.8/19

Left Out: -2.163+/-0.041 $\chi^2$/NDF:168990.2/24

Right Out: 0.566+/-0.044 $\chi^2$/NDF: 111820.5/25

Left In: -0.843+/-0.040 $\chi^2$/NDF:127135.3/22

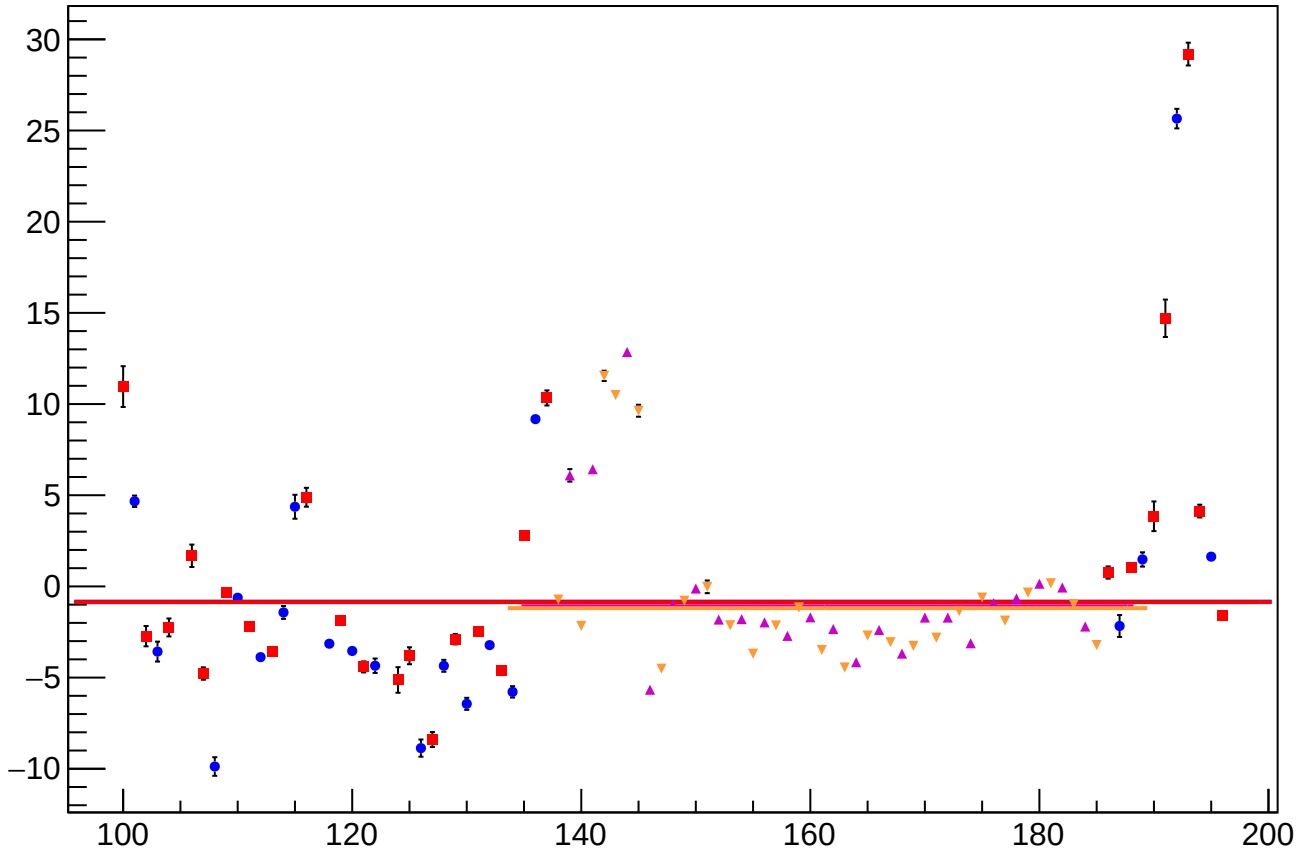
Left: -1.489+/-0.029 $\chi^2$/NDF: 296654.1/47

Right: 1.126+/-0.034 $\chi^2$/NDF: 221835.1/45

In: 0.151+/-0.032 $\chi^2$/NDF:238484.2/42

Out: -0.880+/-0.030 $\chi^2$/NDF:282888.9/50

All: -0.407+/-0.022 $\chi^2$/NDF: 521918.9/93




Right In: -0.838+/-0.066 $\chi^2$/NDF: 7174.3/19

Left Out: -1.190+/-0.037 $\chi^2$/NDF:6995.9/24

Right Out: -0.861+/-0.059 $\chi^2$/NDF: 5433.3/25

Left In: -1.089+/-0.036 $\chi^2$/NDF:6840.8/22

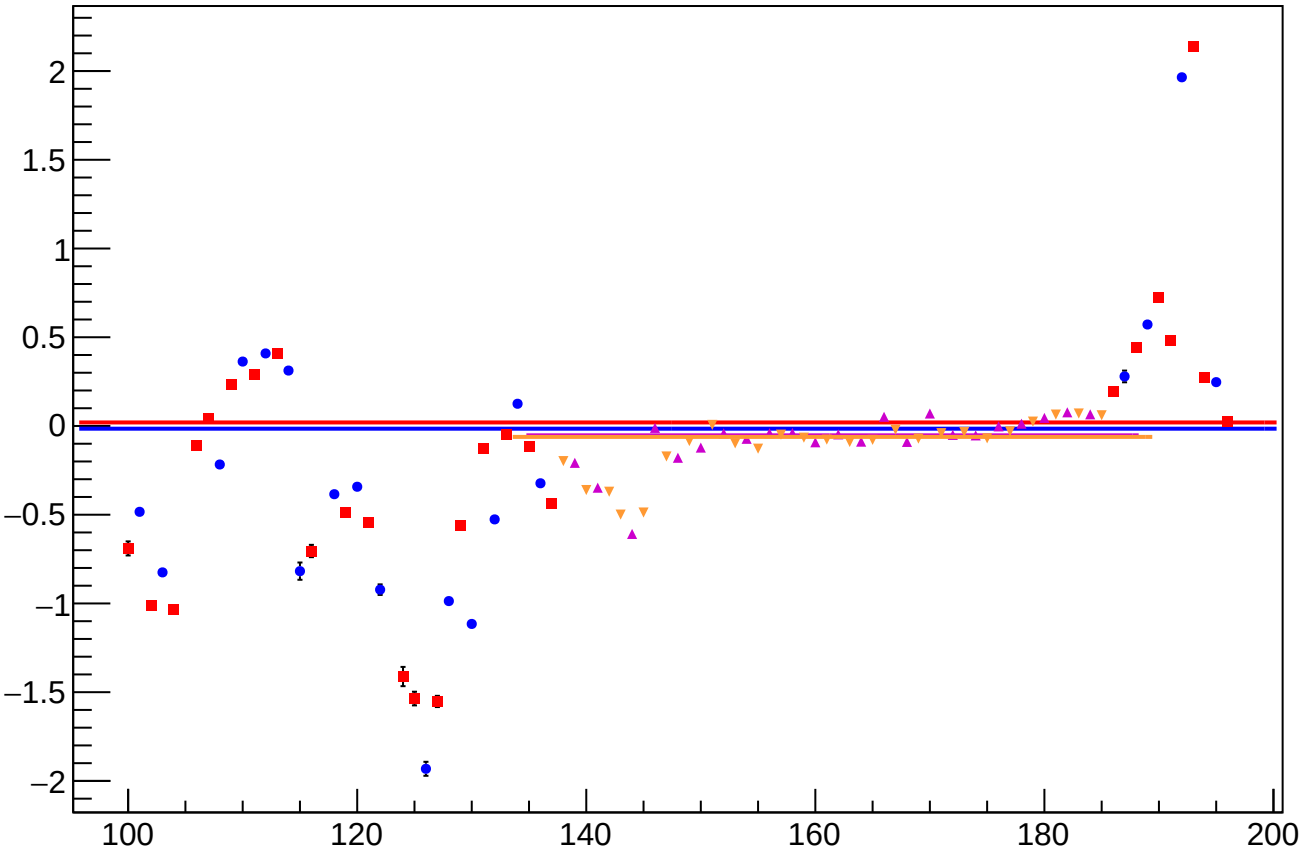
Left: -1.138+/-0.026 $\chi^2$/NDF: 13840.6/47

Right: -0.850+/-0.044 $\chi^2$/NDF: 12607.7/45

In: -1.032+/-0.031 $\chi^2$/NDF:14026.3/42

Out: -1.097+/-0.031 $\chi^2$/NDF:12451.7/50

All: -1.065+/-0.022 $\chi^2$/NDF: 26480.2/93




Right In: -0.015+/-0.003 $\chi^2$/NDF: 31803.3/19

Left Out: -0.062+/-0.002 $\chi^2$/NDF:5563.5/24

Right Out: 0.020+/-0.003 $\chi^2$/NDF: 32542.4/25

Left In: -0.053+/-0.002 $\chi^2$/NDF:5036.0/22

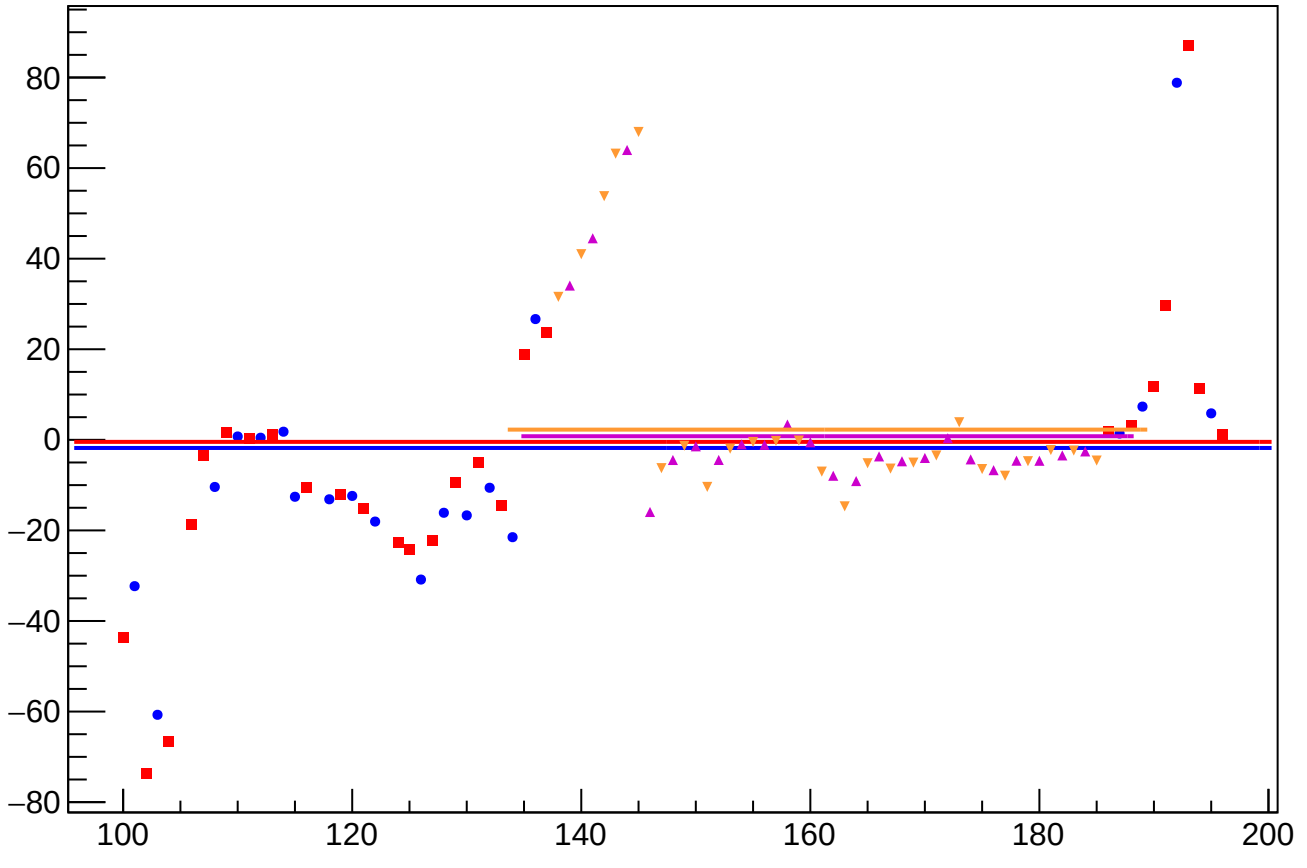
Left: -0.057+/-0.001 $\chi^2$/NDF: 10615.2/47

Right: 0.004+/-0.002 $\chi^2$/NDF: 64404.2/45

In: -0.047+/-0.001 $\chi^2$/NDF:36938.0/42

Out: -0.044+/-0.001 $\chi^2$/NDF:38662.2/50

All: -0.045+/-0.001 $\chi^2$/NDF: 75602.2/93




Right In: -1.797+/-0.051 $\chi^2$/NDF: 108917.4/19

Left Out: 2.255+/-0.041 $\chi^2$/NDF:171671.4/24

Right Out: -0.451+/-0.041 $\chi^2$/NDF: 111294.3/25

Left In: 0.794+/-0.041 $\chi^2$/NDF:128828.3/22

Left: 1.518+/-0.029 $\chi^2$/NDF: 301124.7/47

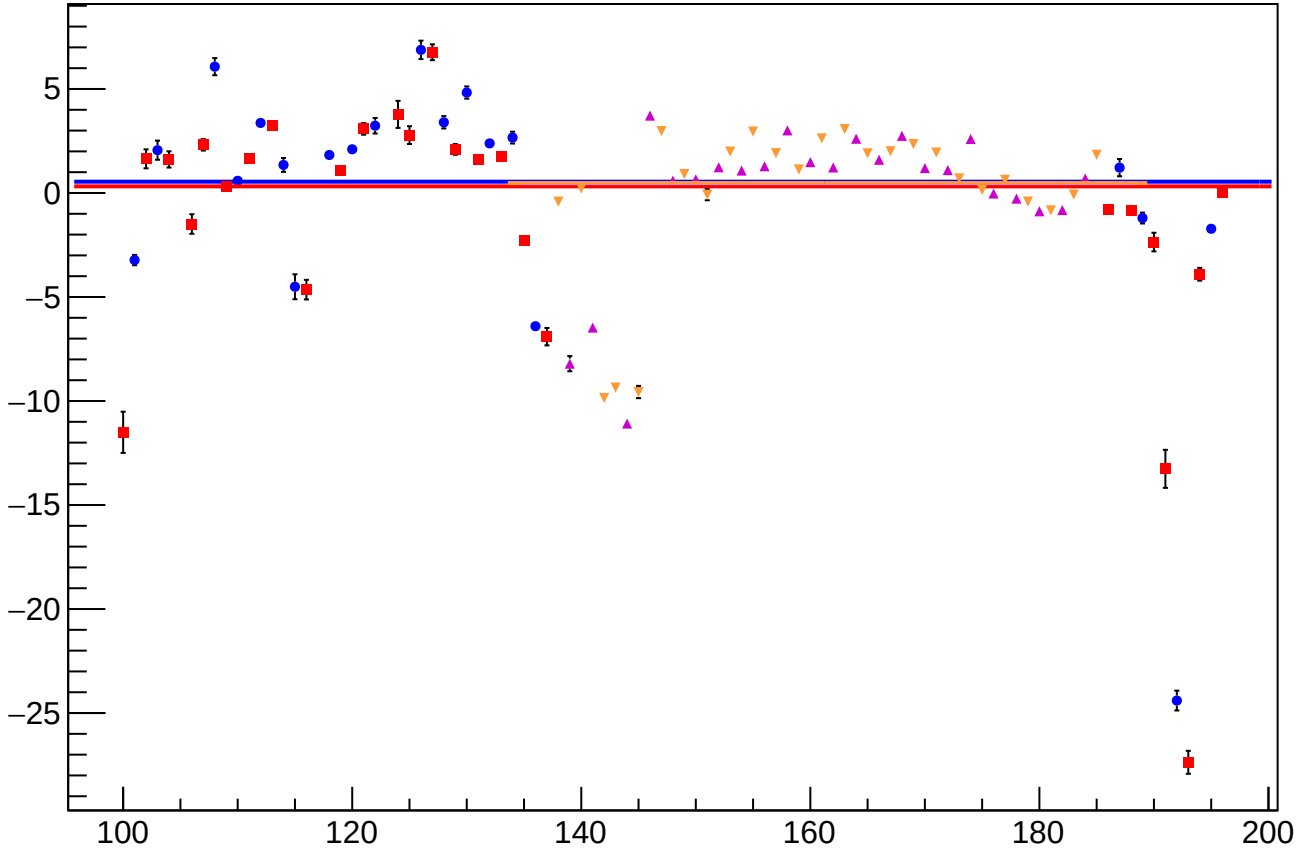
Right: -0.979+/-0.032 $\chi^2$/NDF: 220633.5/45

In: -0.226+/-0.032 $\chi^2$/NDF:239304.8/42

Out: 0.889+/-0.029 $\chi^2$/NDF:285111.4/50

All: 0.383+/-0.022 $\chi^2$/NDF: 525077.1/93

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.543+/-0.057 $\chi^2$/NDF: 5489.5/19

Left Out: 0.479+/-0.034 $\chi^2$/NDF:6808.1/24

Right Out: 0.319+/-0.051 $\chi^2$/NDF: 4727.9/25

Left In: 0.440+/-0.032 $\chi^2$/NDF:6893.7/22

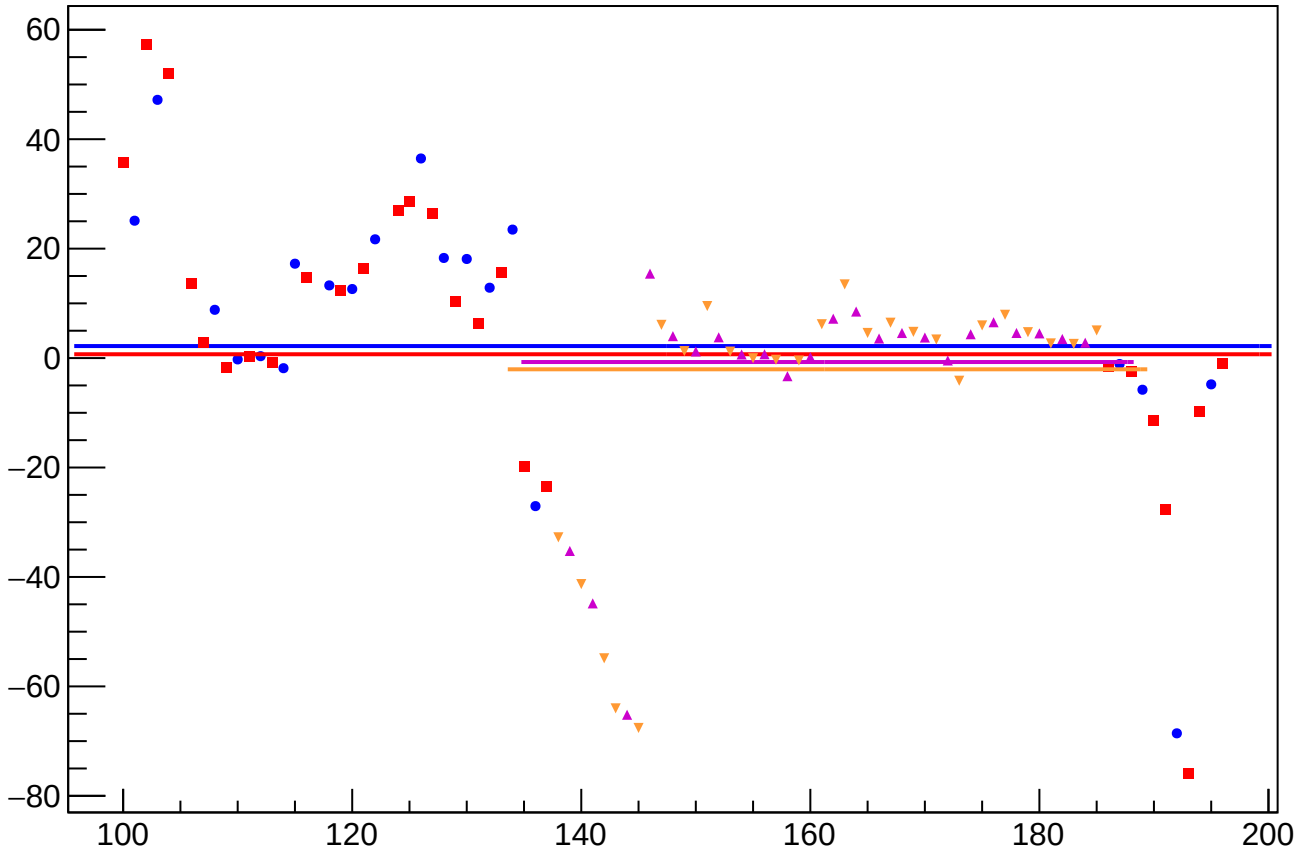
Left: 0.458+/-0.023 $\chi^2$/NDF: 13702.5/47

Right: 0.418+/-0.038 $\chi^2$/NDF: 10226.1/45

In: 0.465+/-0.028 $\chi^2$/NDF:12385.7/42

Out: 0.430+/-0.028 $\chi^2$/NDF:11542.9/50

All: 0.447+/-0.020 $\chi^2$/NDF: 23929.4/93




Right In: 2.197+/-0.056 $\chi^2$/NDF: 107800.5/19

Left Out: -2.051+/-0.041 $\chi^2$/NDF:166009.6/24

Right Out: 0.700+/-0.044 $\chi^2$/NDF: 109691.4/25

Left In: -0.720+/-0.041 $\chi^2$/NDF:125531.3/22

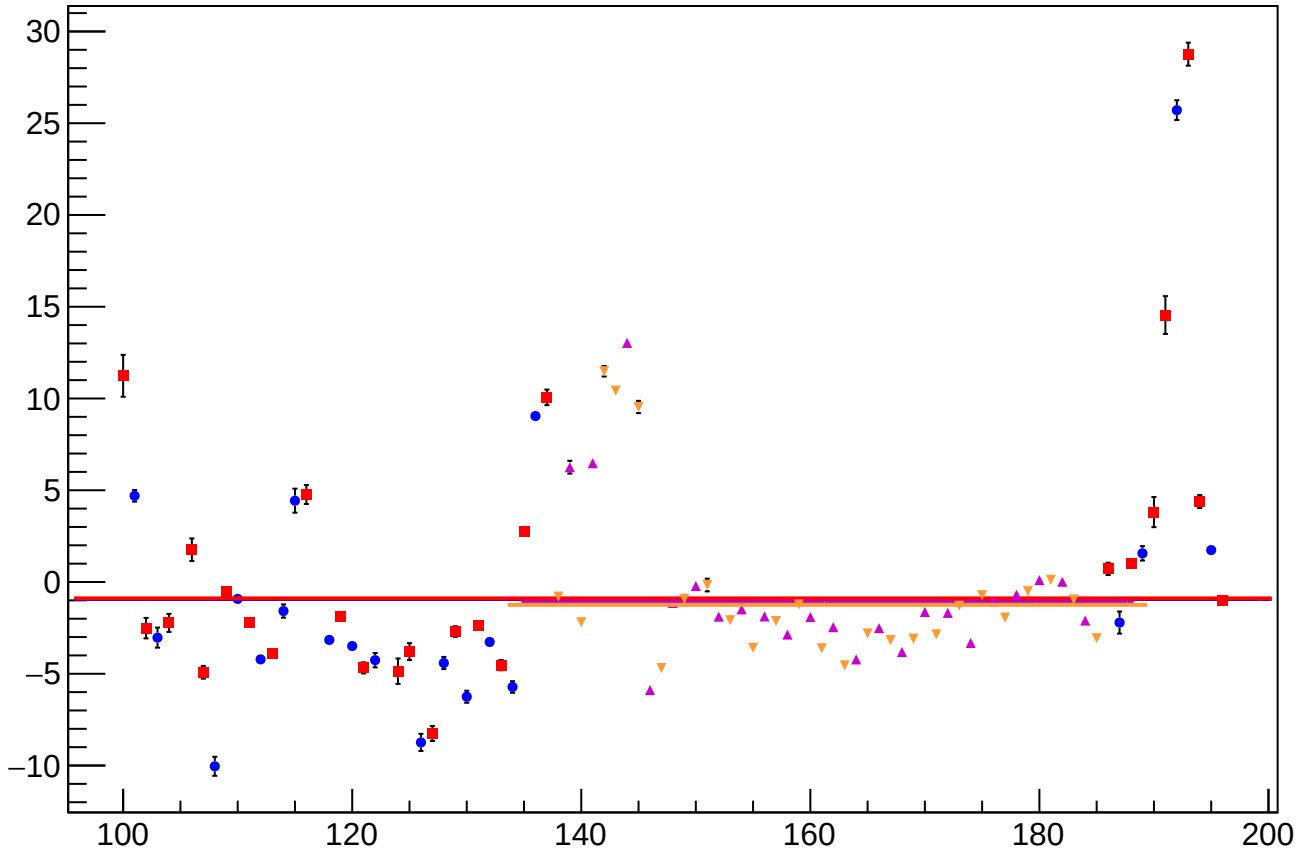
Left: -1.371+/-0.029 $\chi^2$/NDF: 292067.4/47

Right: 1.278+/-0.035 $\chi^2$/NDF: 217933.4/45

In: 0.288+/-0.033 $\chi^2$/NDF:235118.7/42

Out: -0.767+/-0.030 $\chi^2$/NDF:277756.7/50

All: -0.282+/-0.022 $\chi^2$/NDF: 513433.7/93




Right In: -0.926+/-0.067 $\chi^2$/NDF: 7023.7/19

Left Out: -1.244+/-0.037 $\chi^2$/NDF:6768.7/24

Right Out: -0.893+/-0.060 $\chi^2$/NDF: 5276.8/25

Left In: -1.117+/-0.036 $\chi^2$/NDF:6840.3/22

Left: -1.178+/-0.026 $\chi^2$/NDF: 13615.0/47

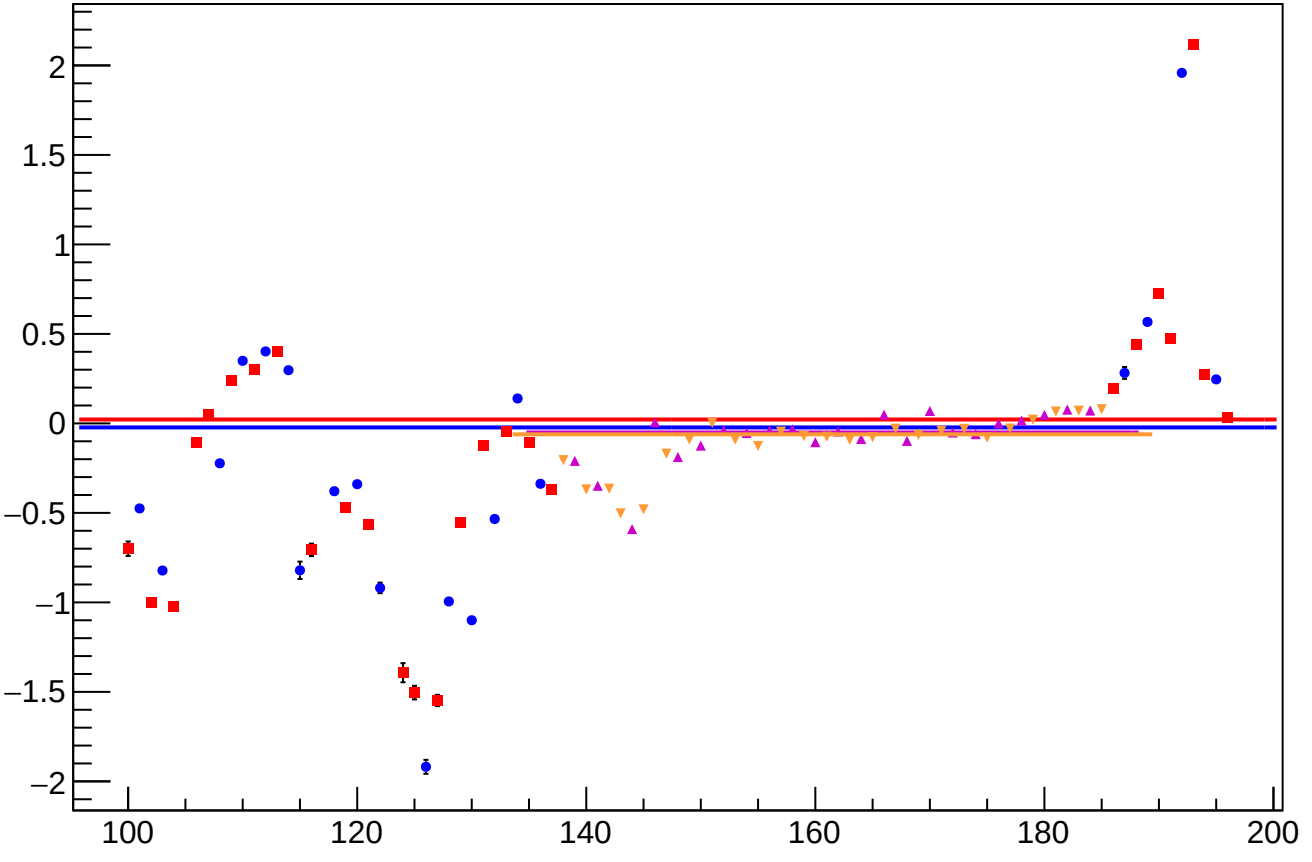
Right: -0.908+/-0.044 $\chi^2$/NDF: 12300.7/45

In: -1.074+/-0.032 $\chi^2$/NDF:13870.4/42

Out: -1.146+/-0.032 $\chi^2$/NDF:12070.4/50

All: -1.110+/-0.022 $\chi^2$/NDF: 25943.4/93

reg_asym_bcm_dg_us_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.023+/-0.003 $\chi^2$/NDF: 31307.6/19

Left Out: -0.061+/-0.002 $\chi^2$/NDF:5479.8/24

Right Out: 0.022+/-0.003 $\chi^2$/NDF: 31675.9/25

Left In: -0.051+/-0.002 $\chi^2$/NDF:4878.7/22

Left: -0.056+/-0.001 $\chi^2$/NDF: 10379.1/47

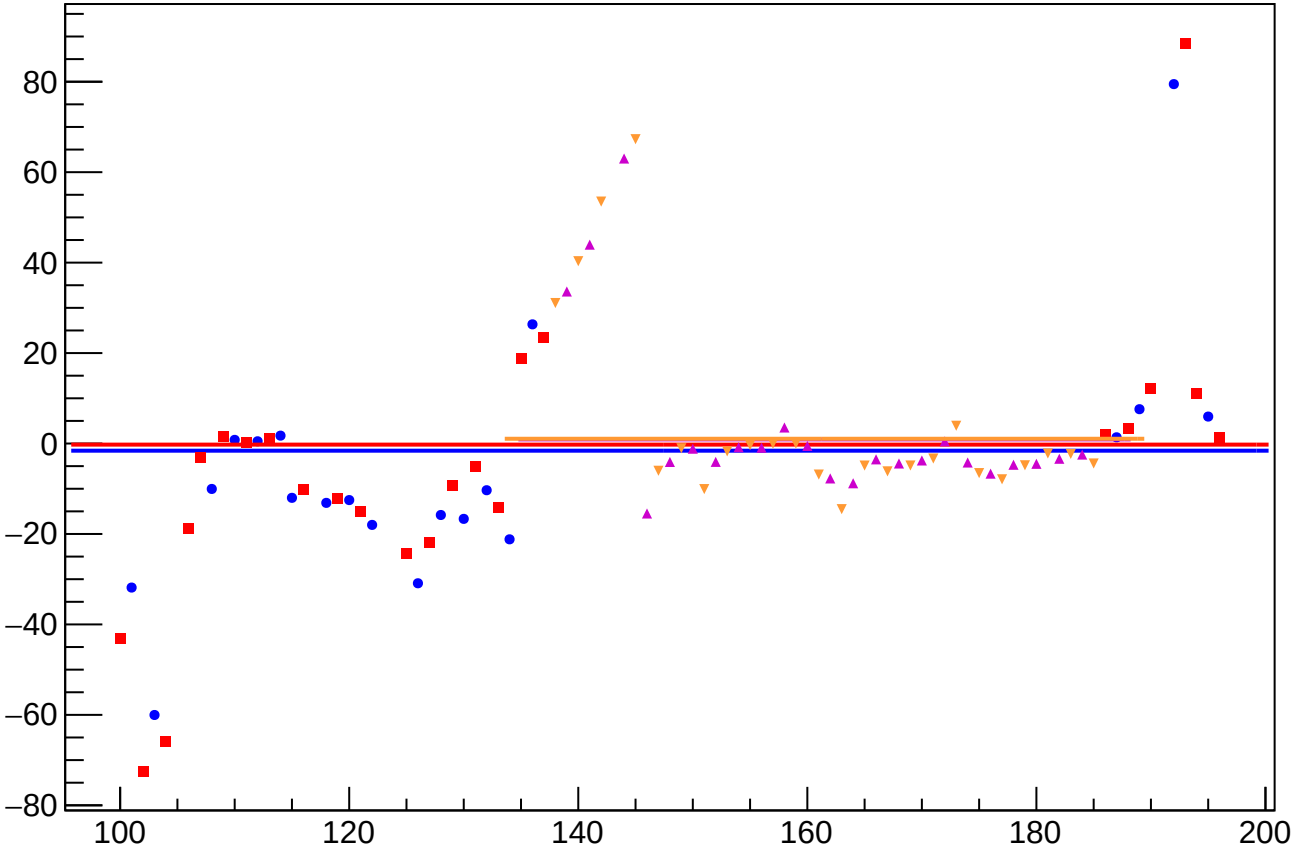
Right: 0.002+/-0.002 $\chi^2$/NDF: 63073.6/45

In: -0.046+/-0.001 $\chi^2$/NDF:36241.1/42

Out: -0.043+/-0.001 $\chi^2$/NDF:37711.3/50

All: -0.045+/-0.001 $\chi^2$/NDF: 73954.7/93

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs Slug, Sign Corrected




Right In: -1.585+/-0.049 $\chi^2$/NDF: 112544.3/19

Left Out: 1.053+/-0.041 $\chi^2$/NDF:131031.0/23

Right Out: -0.242+/-0.039 $\chi^2$/NDF: 112328.4/23

Left In: 0.913+/-0.040 $\chi^2$/NDF:132807.5/22

Left: 0.982+/-0.028 $\chi^2$/NDF: 263844.6/46

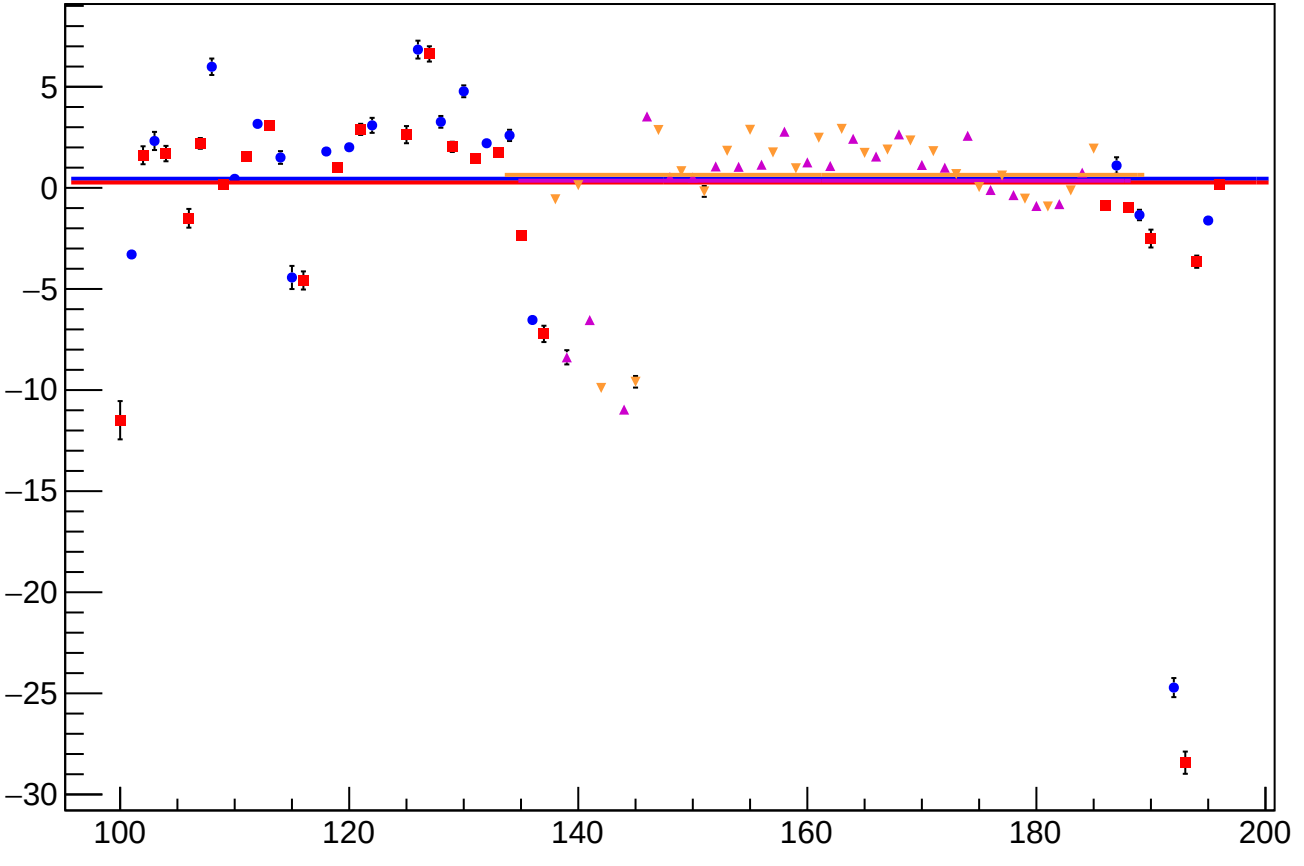
Right: -0.766+/-0.031 $\chi^2$/NDF: 225326.4/43

In: -0.075+/-0.031 $\chi^2$/NDF:246907.2/42

Out: 0.387+/-0.028 $\chi^2$/NDF:243883.9/47

All: 0.177+/-0.021 $\chi^2$/NDF: 490912.4/90

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs Slug, Sign Corrected




Right In: 0.452+/-0.055 $\chi^2$/NDF: 5726.4/19

Left Out: 0.644+/-0.033 $\chi^2$/NDF:4711.1/23

Right Out: 0.265+/-0.049 $\chi^2$/NDF: 4791.7/23

Left In: 0.355+/-0.031 $\chi^2$/NDF:7117.0/22

Left: 0.491+/-0.023 $\chi^2$/NDF: 11868.0/46

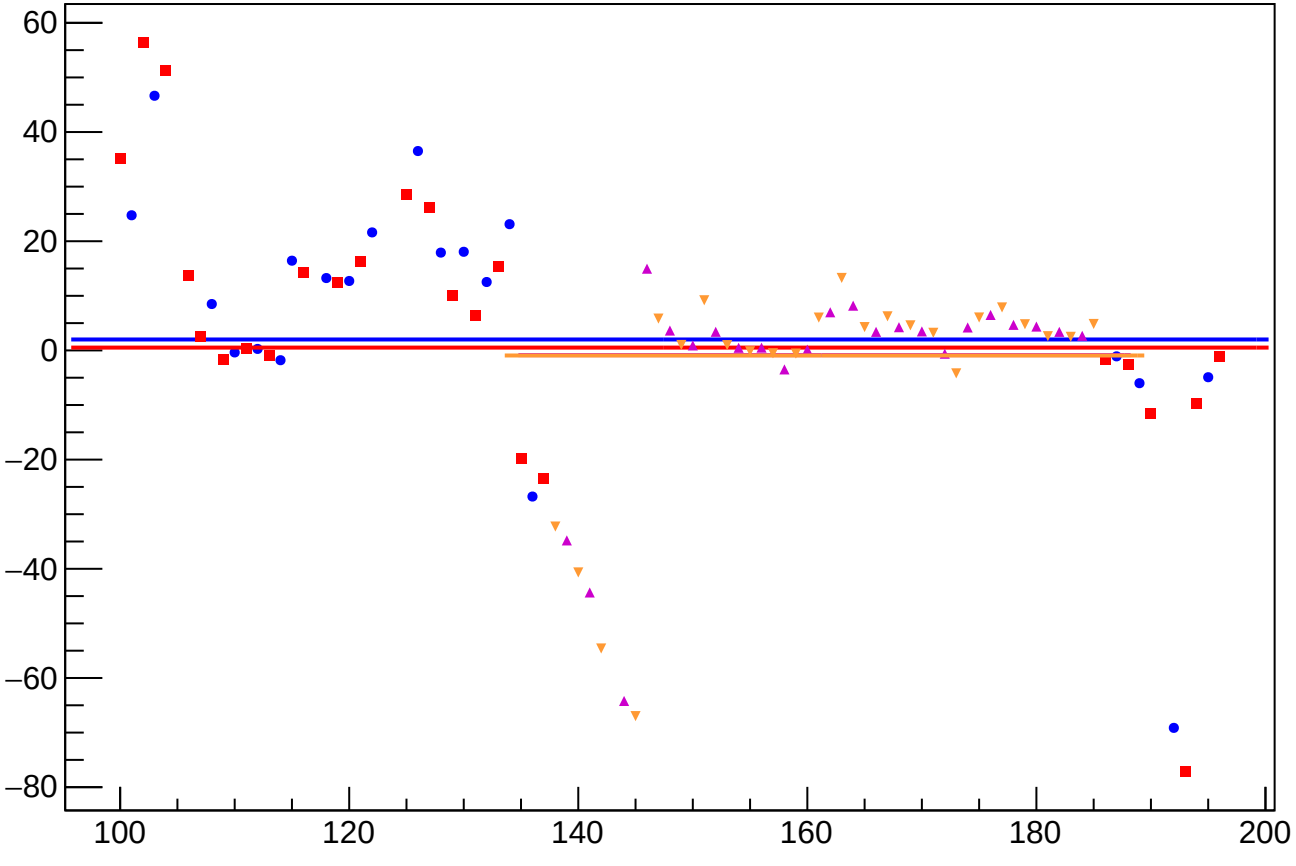
Right: 0.348+/-0.037 $\chi^2$/NDF: 10524.6/43

In: 0.379+/-0.027 $\chi^2$/NDF:12845.8/42

Out: 0.526+/-0.028 $\chi^2$/NDF:9543.4/47

All: 0.452+/-0.019 $\chi^2$/NDF: 22403.5/90

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 2.003+/-0.054 $\chi^2$/NDF: 111365.5/19

Left Out: -0.929+/-0.041 $\chi^2$/NDF:126378.7/23

Right Out: 0.517+/-0.043 $\chi^2$/NDF: 110752.5/23

Left In: -0.860+/-0.039 $\chi^2$/NDF:129485.0/22

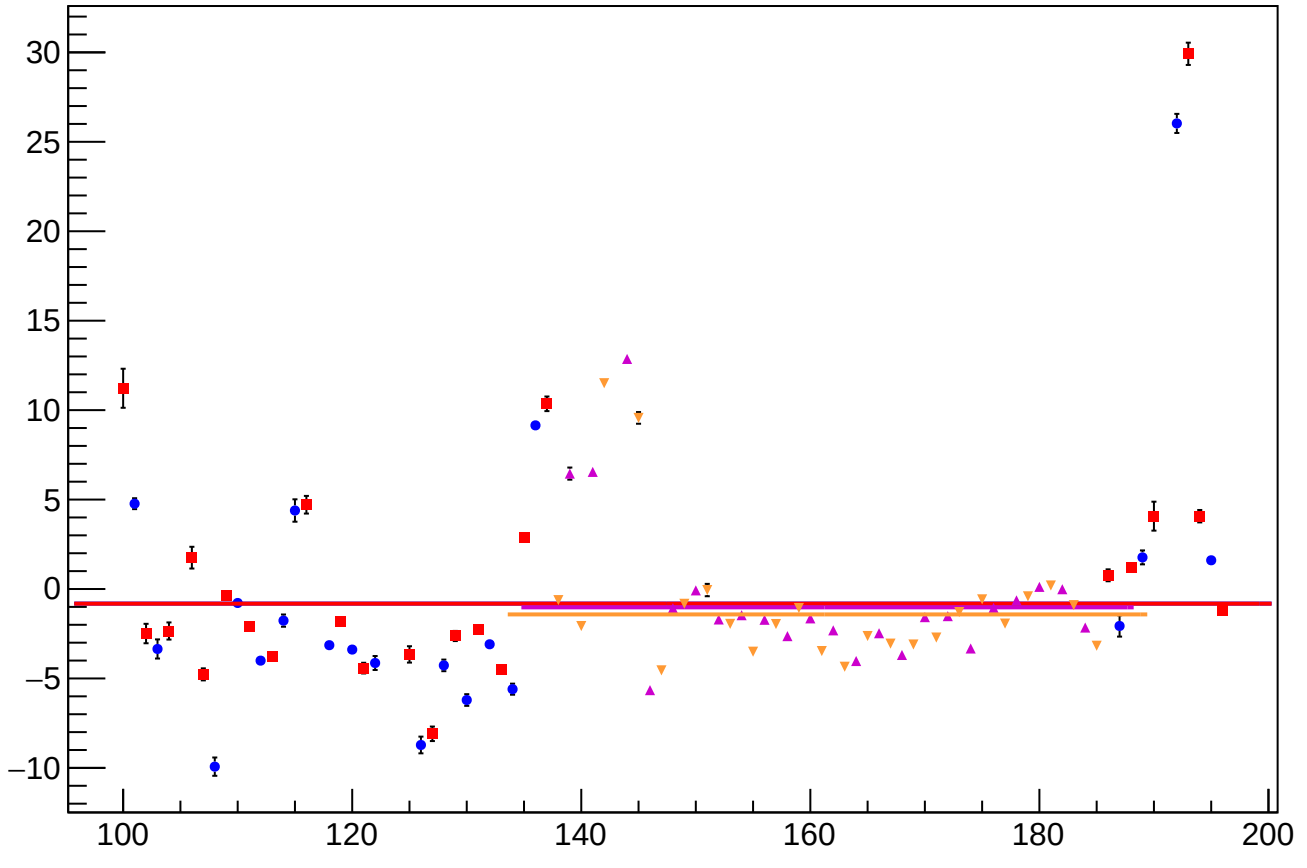
Left: -0.894+/-0.028 $\chi^2$/NDF: 255865.2/46

Right: 1.091+/-0.034 $\chi^2$/NDF: 222579.9/43

In: 0.124+/-0.032 $\chi^2$/NDF:242682.3/42

Out: -0.248+/-0.029 $\chi^2$/NDF:237730.1/47

All: -0.076+/-0.022 $\chi^2$/NDF: 480486.2/90




Right In: -0.815+/-0.065 $\chi^2$/NDF: 7343.6/19

Left Out: -1.420+/-0.037 $\chi^2$/NDF:4642.0/23

Right Out: -0.819+/-0.058 $\chi^2$/NDF: 5374.6/23

Left In: -1.026+/-0.035 $\chi^2$/NDF:7047.1/22

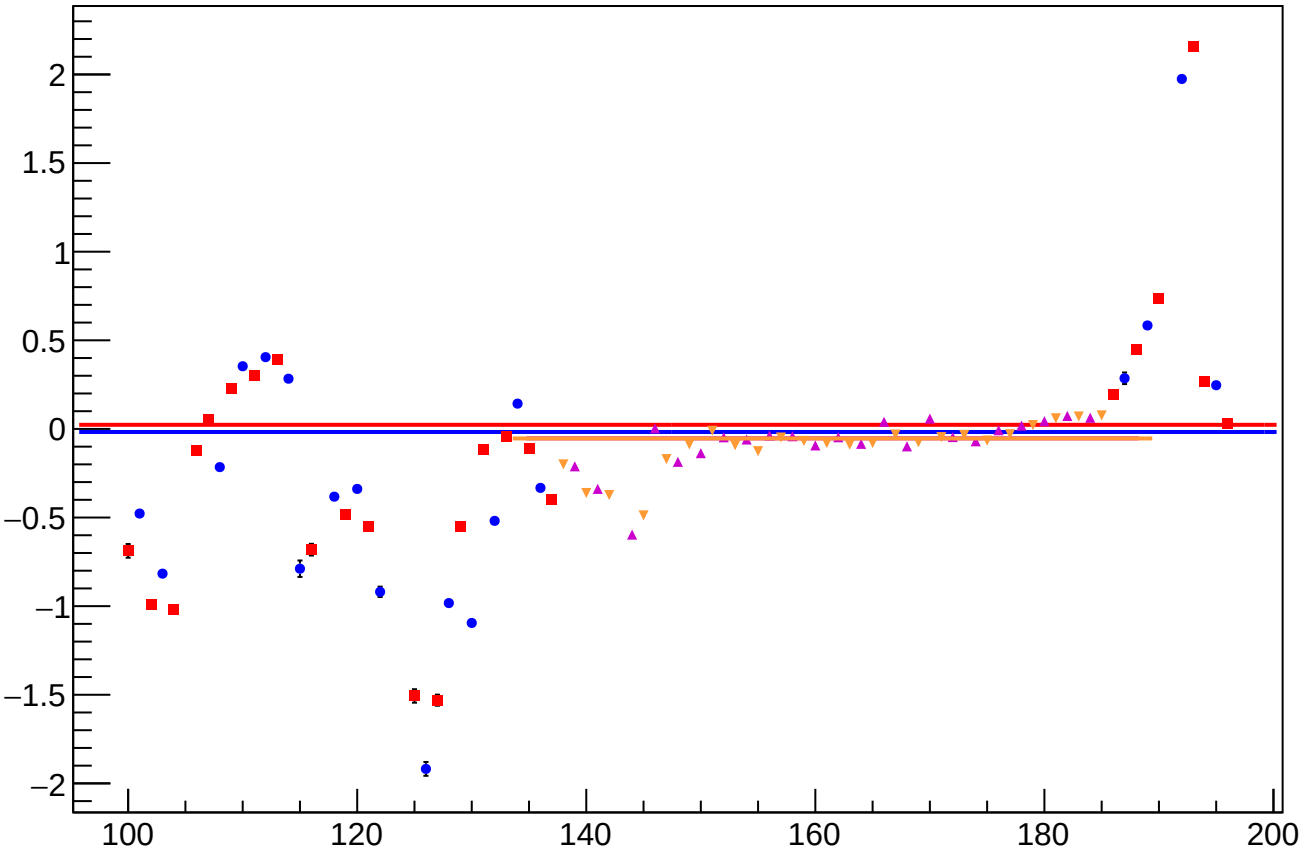
Left: -1.212+/-0.025 $\chi^2$/NDF: 11750.0/46

Right: -0.817+/-0.043 $\chi^2$/NDF: 12718.2/43

In: -0.979+/-0.031 $\chi^2$/NDF:14399.0/42

Out: -1.248+/-0.031 $\chi^2$/NDF:10093.5/47

All: -1.112+/-0.022 $\chi^2$/NDF: 24530.9/90




Right In: -0.017+/-0.003 $\chi^2$/NDF: 32494.9/19

Left Out: -0.054+/-0.002 $\chi^2$/NDF:4340.0/23

Right Out: 0.023+/-0.003 $\chi^2$/NDF: 32085.1/23

Left In: -0.053+/-0.001 $\chi^2$/NDF:5009.7/22

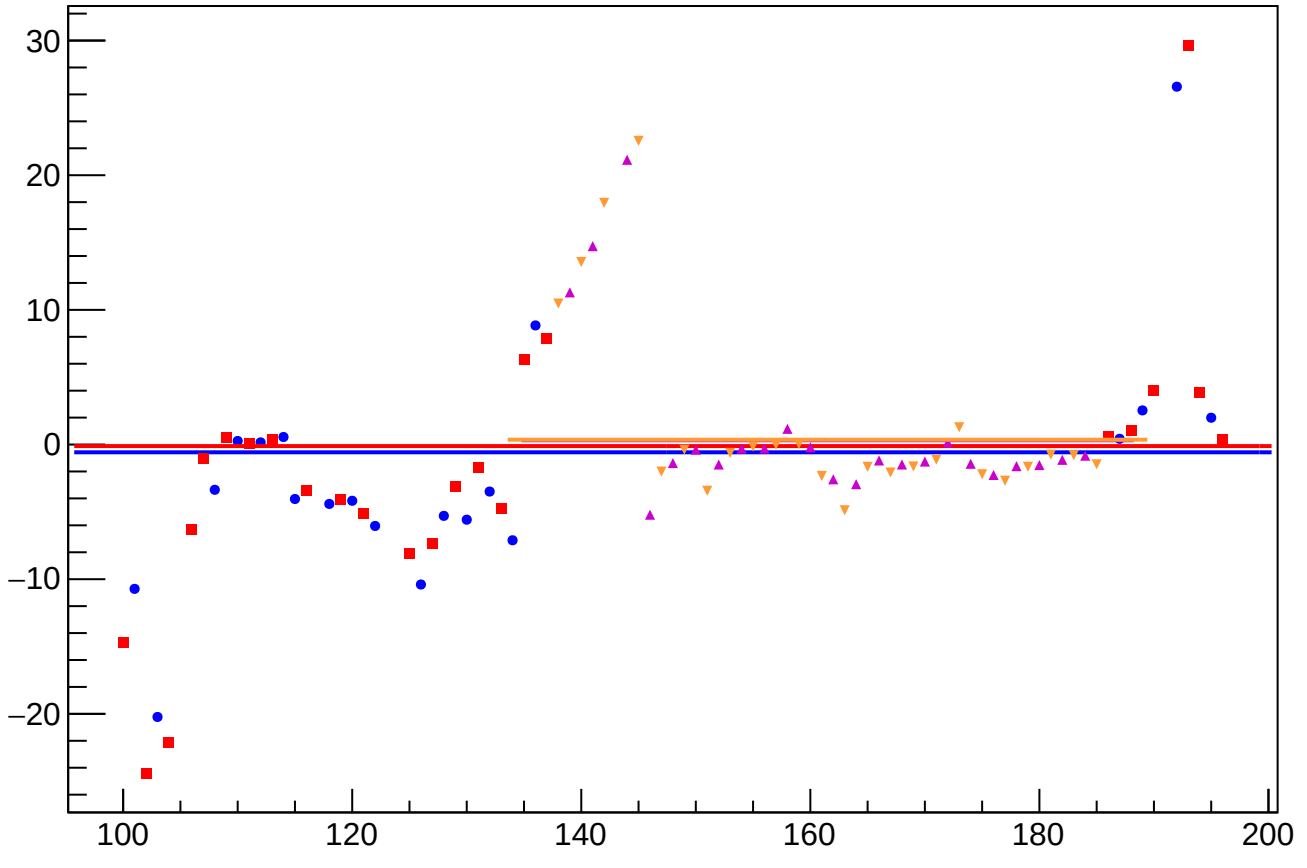
Left: -0.053+/-0.001 $\chi^2$/NDF: 9349.8/46

Right: 0.005+/-0.002 $\chi^2$/NDF: 64659.4/43

In: -0.047+/-0.001 $\chi^2$/NDF:37598.4/42

Out: -0.037+/-0.001 $\chi^2$/NDF:36932.0/47

All: -0.042+/-0.001 $\chi^2$/NDF: 74558.6/90




Right In: -0.577+/-0.017 $\chi^2$/NDF: 110582.5/19

Left Out: 0.359+/-0.014 $\chi^2$/NDF:128829.7/23

Right Out: -0.115+/-0.014 $\chi^2$/NDF: 110622.0/23

Left In: 0.317+/-0.014 $\chi^2$/NDF:130224.2/22

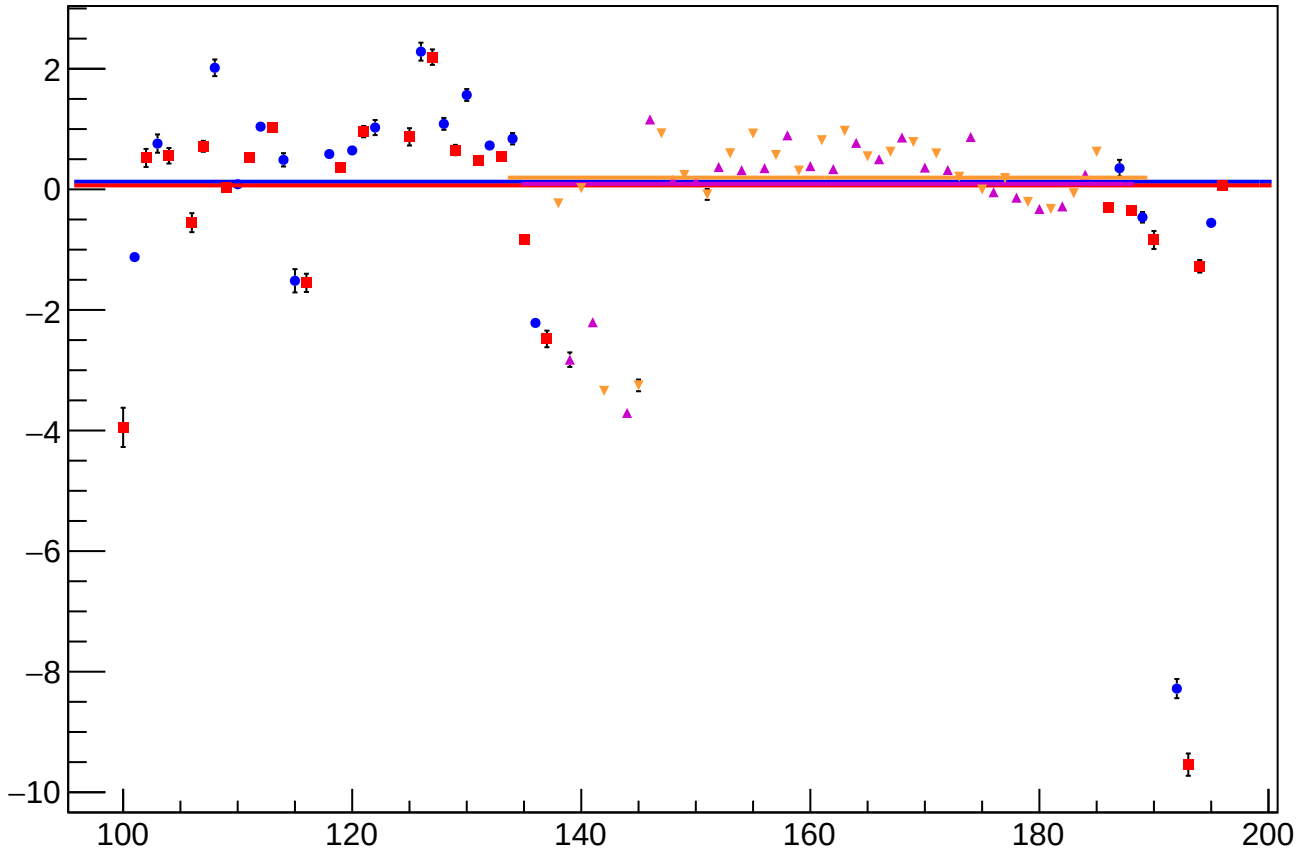
Left: 0.338+/-0.010 $\chi^2$/NDF: 259058.4/46

Right: -0.297+/-0.011 $\chi^2$/NDF: 221656.4/43

In: -0.035+/-0.011 $\chi^2$/NDF:242499.1/42

Out: 0.117+/-0.010 $\chi^2$/NDF:240046.8/47

All: 0.048+/-0.007 $\chi^2$/NDF: 482657.9/90




Right In: 0.127+/-0.019 $\chi^2$/NDF: 5618.6/19

Left Out: 0.194+/-0.011 $\chi^2$/NDF:4645.0/23

Right Out: 0.065+/-0.017 $\chi^2$/NDF: 4717.6/23

Left In: 0.091+/-0.011 $\chi^2$/NDF:6936.4/22

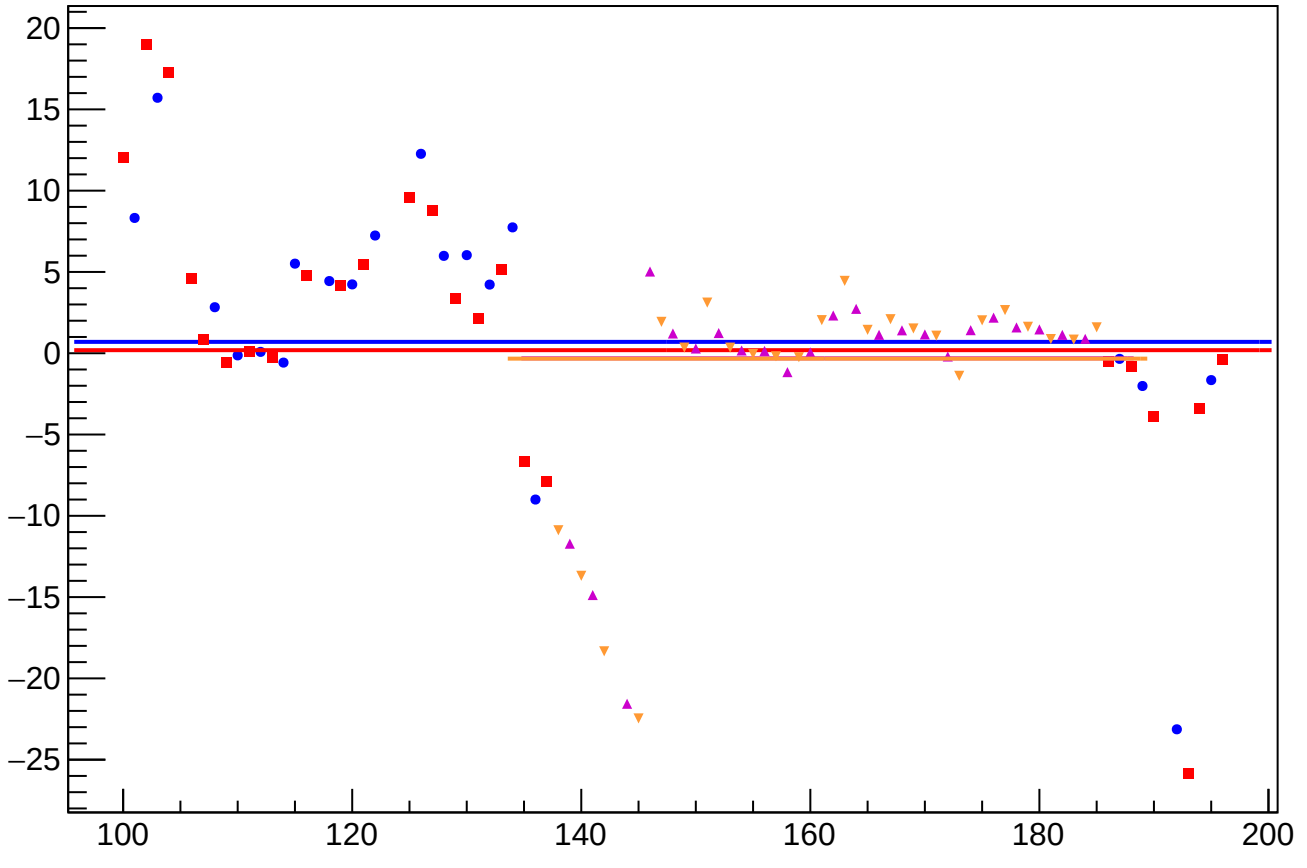
Left: 0.140+/-0.008 $\chi^2$/NDF: 11625.1/46

Right: 0.093+/-0.013 $\chi^2$/NDF: 10342.0/43

In: 0.100+/-0.009 $\chi^2$/NDF:12557.7/42

Out: 0.155+/-0.009 $\chi^2$/NDF:9402.7/47

All: 0.127+/-0.007 $\chi^2$/NDF: 21977.3/90




Right In: 0.699+/-0.019 $\chi^2$/NDF: 109451.0/19

Left Out: -0.332+/-0.014 $\chi^2$/NDF:124233.4/23

Right Out: 0.189+/-0.015 $\chi^2$/NDF: 109105.1/23

Left In: -0.314+/-0.013 $\chi^2$/NDF:126999.2/22

Left: -0.323+/-0.010 $\chi^2$/NDF: 251233.5/46

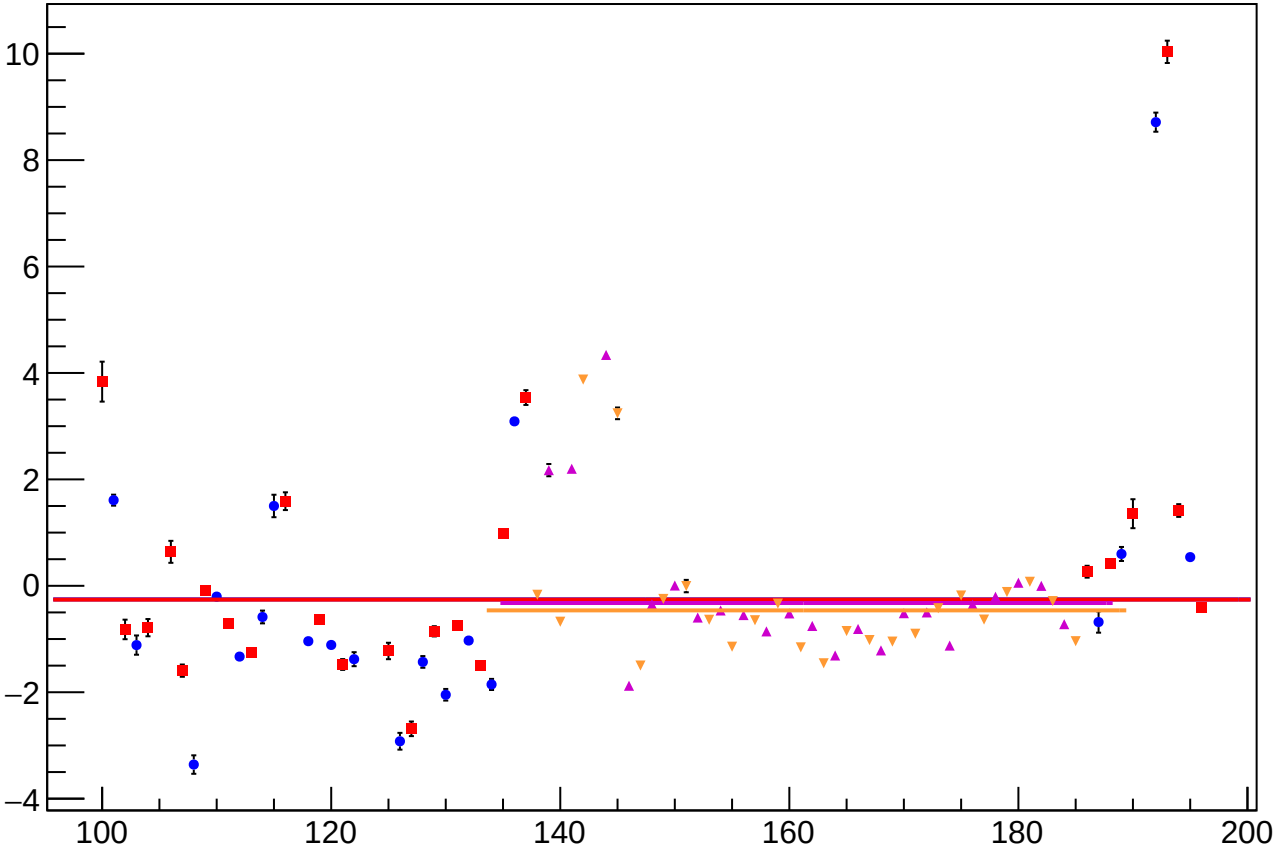
Right: 0.386+/-0.012 $\chi^2$/NDF: 219021.3/43

In: 0.035+/-0.011 $\chi^2$/NDF:238404.9/42

Out: -0.087+/-0.010 $\chi^2$/NDF:234002.6/47

All: -0.031+/-0.007 $\chi^2$/NDF: 472476.0/90

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected




Right In: -0.255+/-0.022 $\chi^2$/NDF: 7196.3/19

Left Out: -0.462+/-0.013 $\chi^2$/NDF:4580.0/23

Right Out: -0.259+/-0.020 $\chi^2$/NDF: 5294.1/23

Left In: -0.323+/-0.012 $\chi^2$/NDF:6881.8/22

Left: -0.389+/-0.009 $\chi^2$/NDF: 11526.1/46

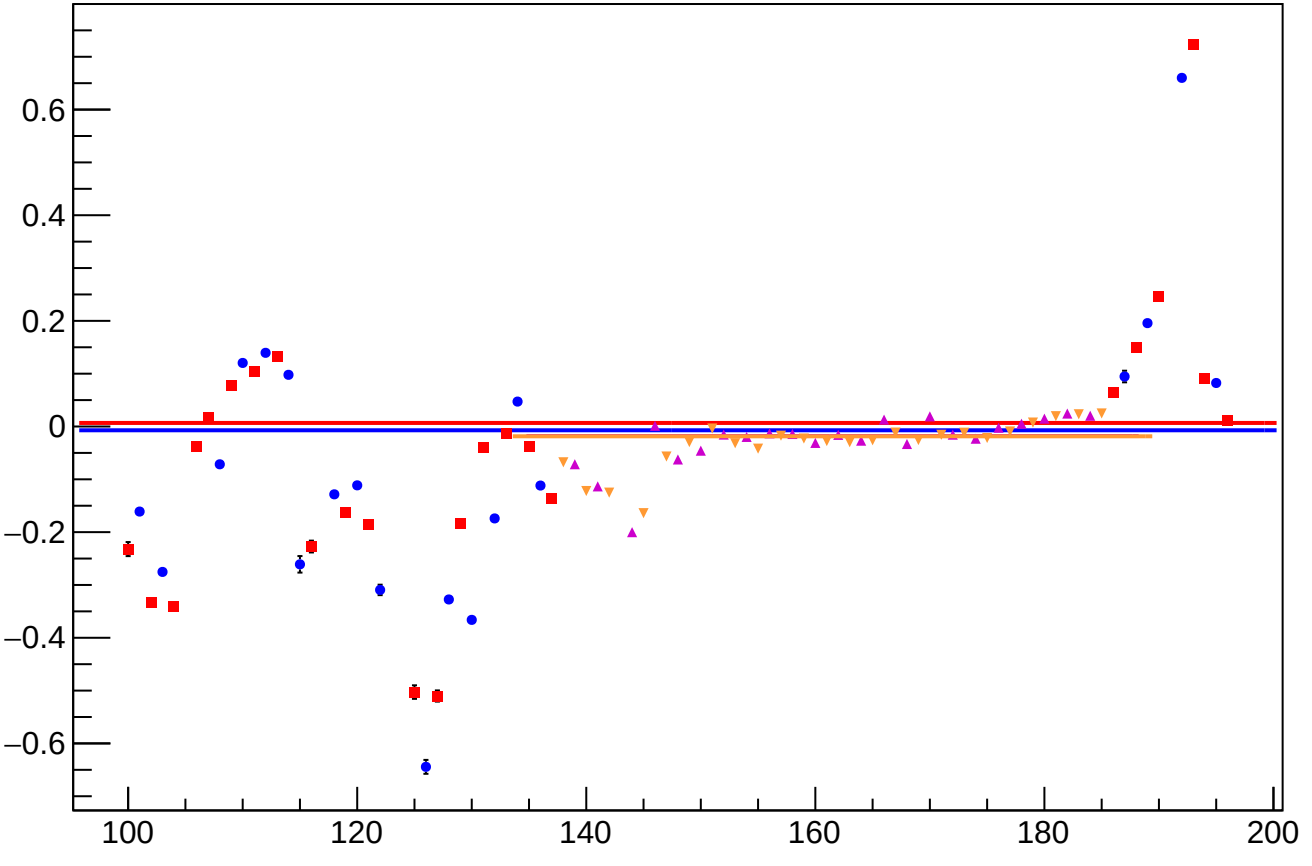
Right: -0.258+/-0.015 $\chi^2$/NDF: 12490.4/43

In: -0.308+/-0.010 $\chi^2$/NDF:14085.4/42

Out: -0.404+/-0.011 $\chi^2$/NDF:9947.9/47

All: -0.356+/-0.007 $\chi^2$/NDF: 24075.3/90

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs Slug, Sign Corrected




Right In: -0.007+/-0.001 $\chi^2$/NDF: 31921.1/19

Left Out: -0.019+/-0.001 $\chi^2$/NDF:4227.5/23

Right Out: 0.007+/-0.001 $\chi^2$/NDF: 31501.1/23

Left In: -0.018+/-0.001 $\chi^2$/NDF:4879.3/22

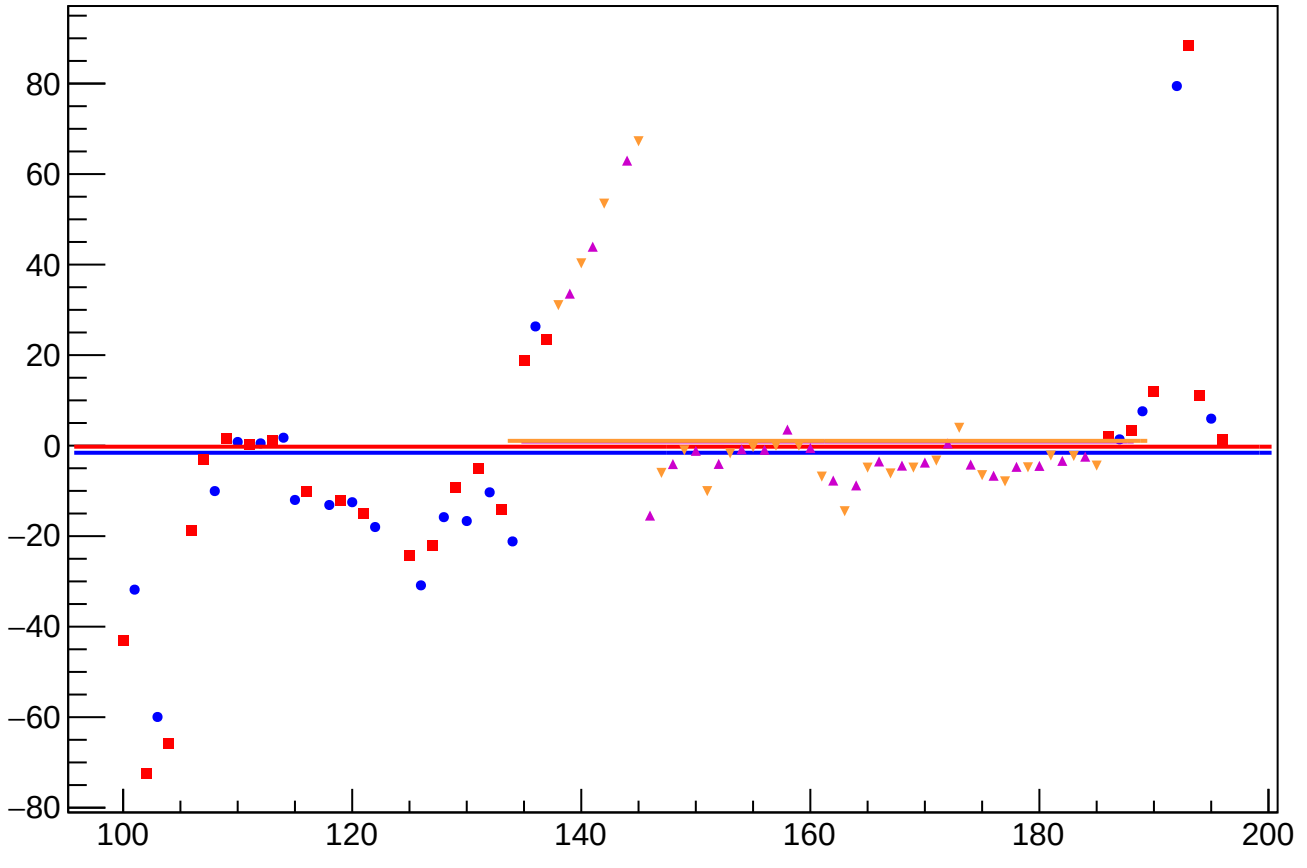
Left: -0.018+/-0.000 $\chi^2$/NDF: 9107.2/46

Right: 0.001+/-0.001 $\chi^2$/NDF: 63501.9/43

In: -0.016+/-0.000 $\chi^2$/NDF:36873.7/42

Out: -0.013+/-0.000 $\chi^2$/NDF:36193.1/47

All: -0.015+/-0.000 $\chi^2$/NDF: 73089.1/90




Right In: -1.575+/-0.049 $\chi^2$/NDF: 112571.5/19

Left Out: 1.058+/-0.041 $\chi^2$/NDF:131010.5/23

Right Out: -0.236+/-0.039 $\chi^2$/NDF: 112349.3/23

Left In: 0.915+/-0.040 $\chi^2$/NDF:132816.1/22

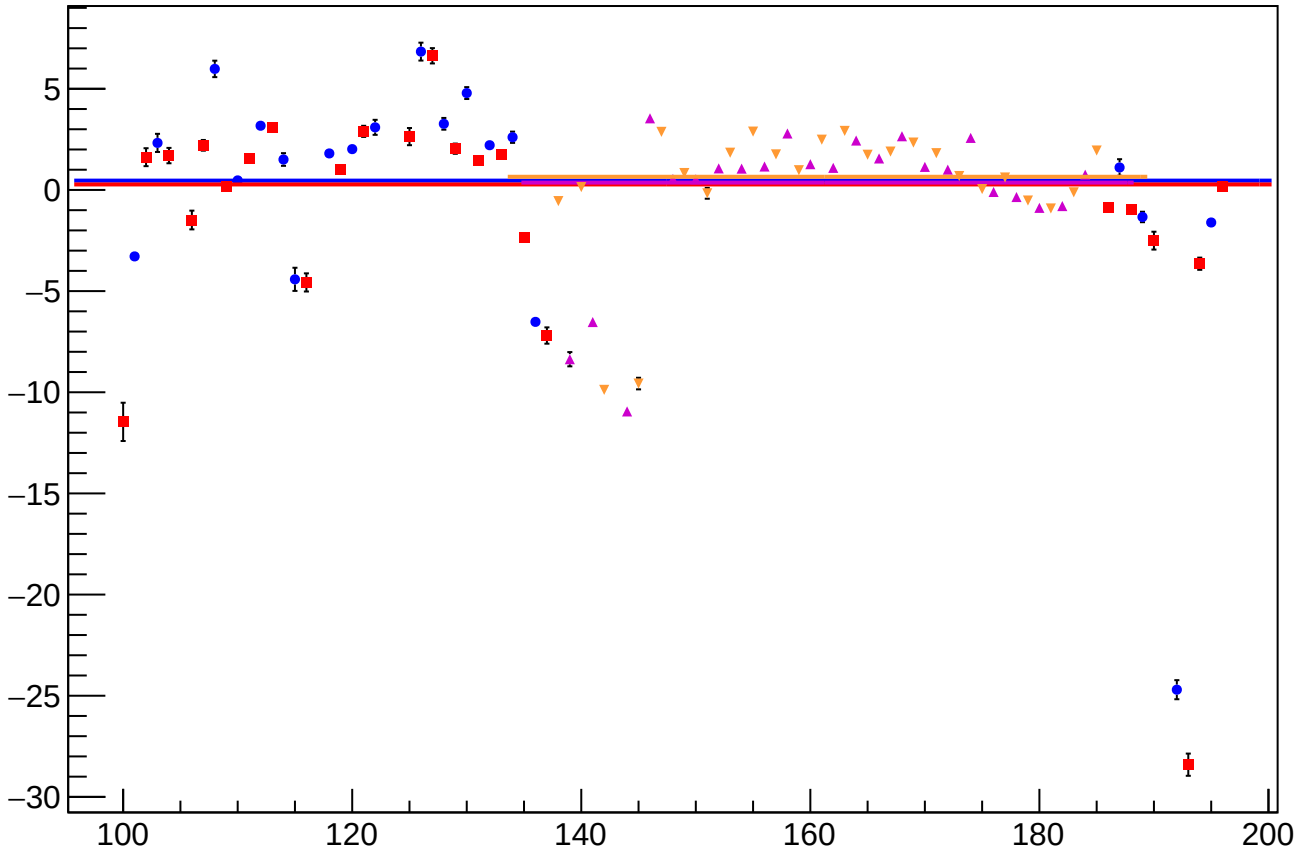
Left: 0.985+/-0.028 $\chi^2$/NDF: 263832.9/46

Right: -0.759+/-0.031 $\chi^2$/NDF: 225373.1/43

In: -0.070+/-0.031 $\chi^2$/NDF:246938.5/42

Out: 0.392+/-0.028 $\chi^2$/NDF:243884.2/47

All: 0.182+/-0.021 $\chi^2$/NDF: 490944.0/90




Right In: 0.461+/-0.055 $\chi^2$/NDF: 5728.8/19

Left Out: 0.651+/-0.033 $\chi^2$/NDF:4708.8/23

Right Out: 0.272+/-0.049 $\chi^2$/NDF: 4792.0/23

Left In: 0.364+/-0.031 $\chi^2$/NDF:7122.4/22

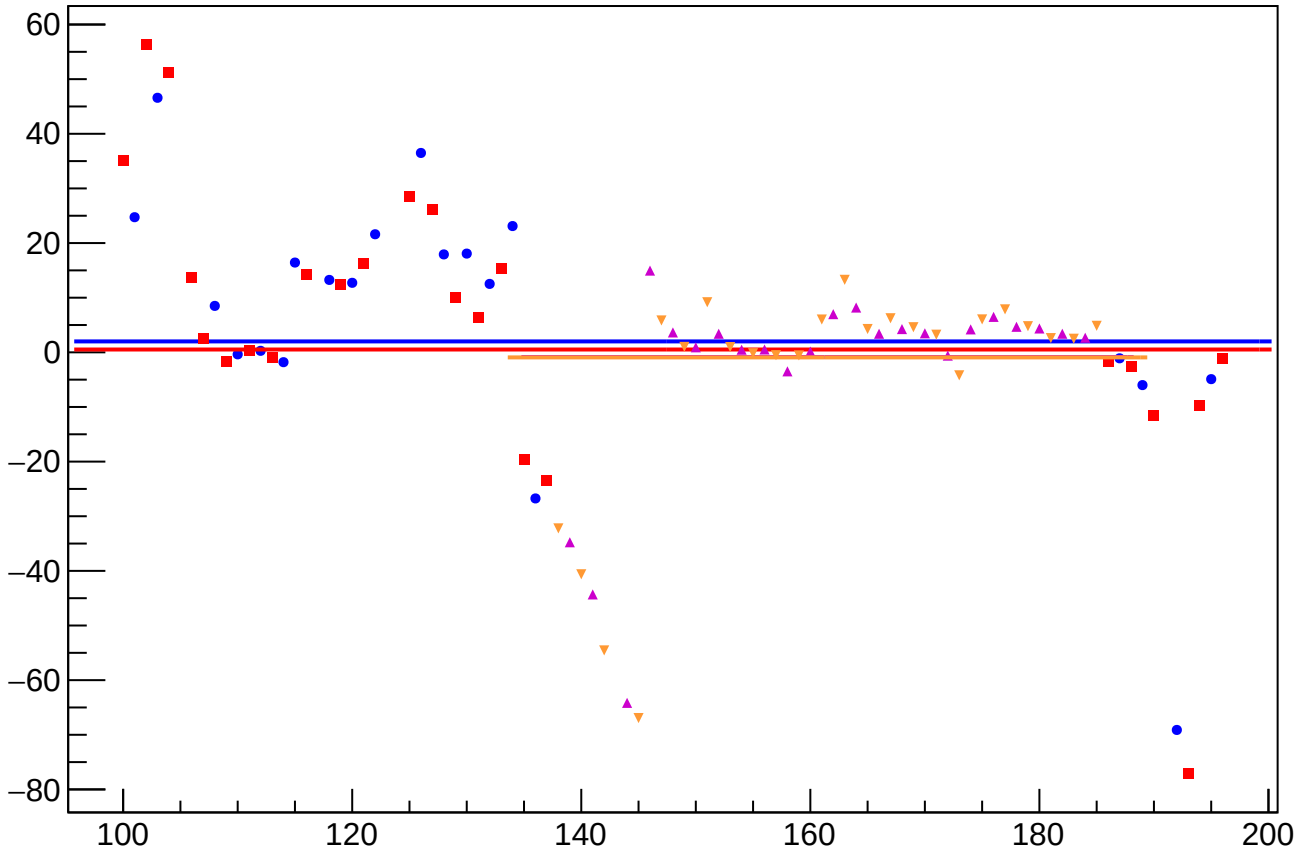
Left: 0.499+/-0.023 $\chi^2$/NDF: 11870.9/46

Right: 0.356+/-0.037 $\chi^2$/NDF: 10527.4/43

In: 0.388+/-0.027 $\chi^2$/NDF:12853.5/42

Out: 0.533+/-0.028 $\chi^2$/NDF:9541.7/47

All: 0.460+/-0.019 $\chi^2$/NDF: 22409.3/90




Right In: 2.000+/-0.054 $\chi^2$/NDF: 111389.3/19

Left Out: -0.927+/-0.041 $\chi^2$/NDF:126360.1/23

Right Out: 0.517+/-0.043 $\chi^2$/NDF: 110768.7/23

Left In: -0.858+/-0.039 $\chi^2$/NDF:129490.8/22

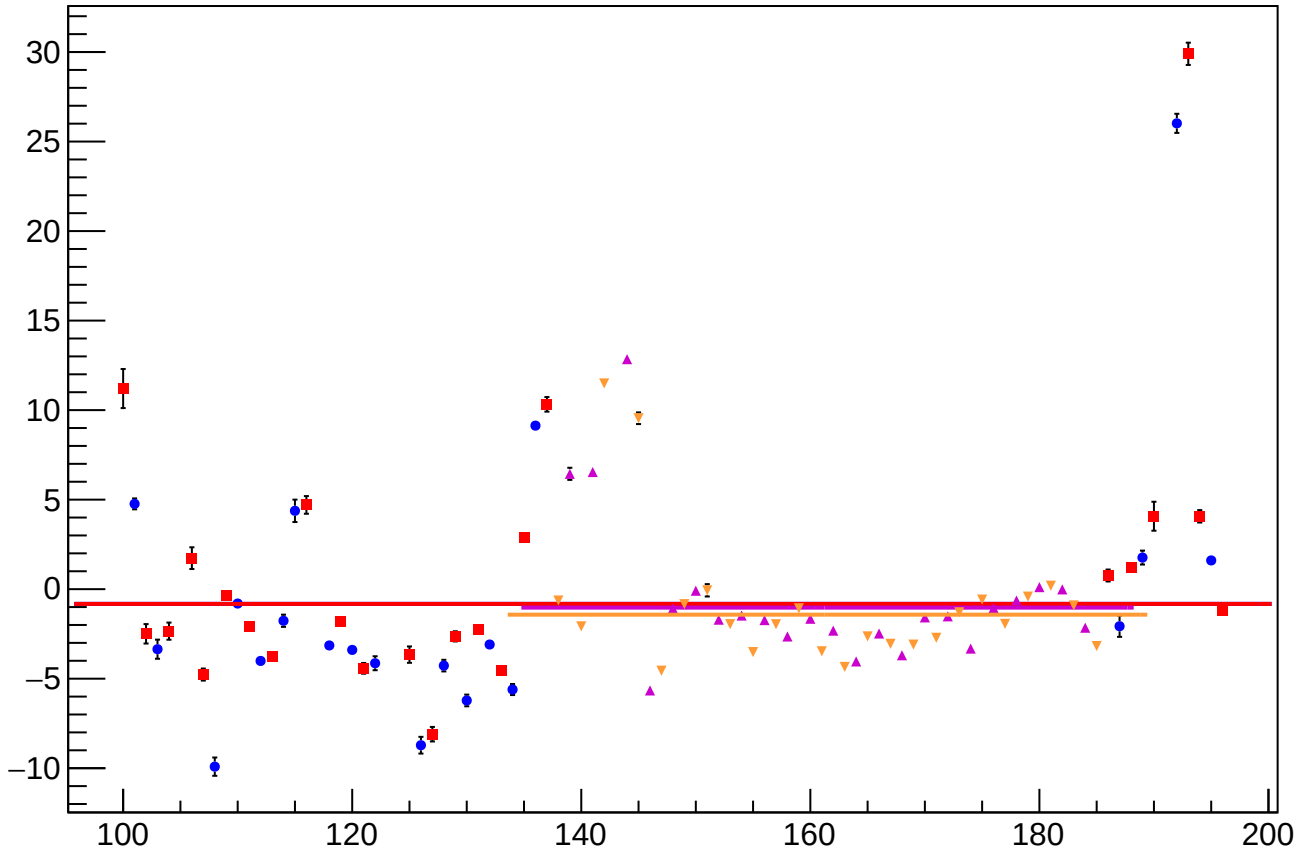
Left: -0.891+/-0.028 $\chi^2$/NDF: 255852.4/46

Right: 1.089+/-0.034 $\chi^2$/NDF: 222618.5/43

In: 0.125+/-0.032 $\chi^2$/NDF:242707.1/42

Out: -0.247+/-0.029 $\chi^2$/NDF:237727.2/47

All: -0.075+/-0.022 $\chi^2$/NDF: 480508.2/90




Right In: -0.821+/-0.064 $\chi^2$/NDF: 7345.8/19

Left Out: -1.425+/-0.037 $\chi^2$/NDF:4639.6/23

Right Out: -0.823+/-0.058 $\chi^2$/NDF: 5373.4/23

Left In: -1.032+/-0.035 $\chi^2$/NDF:7051.3/22

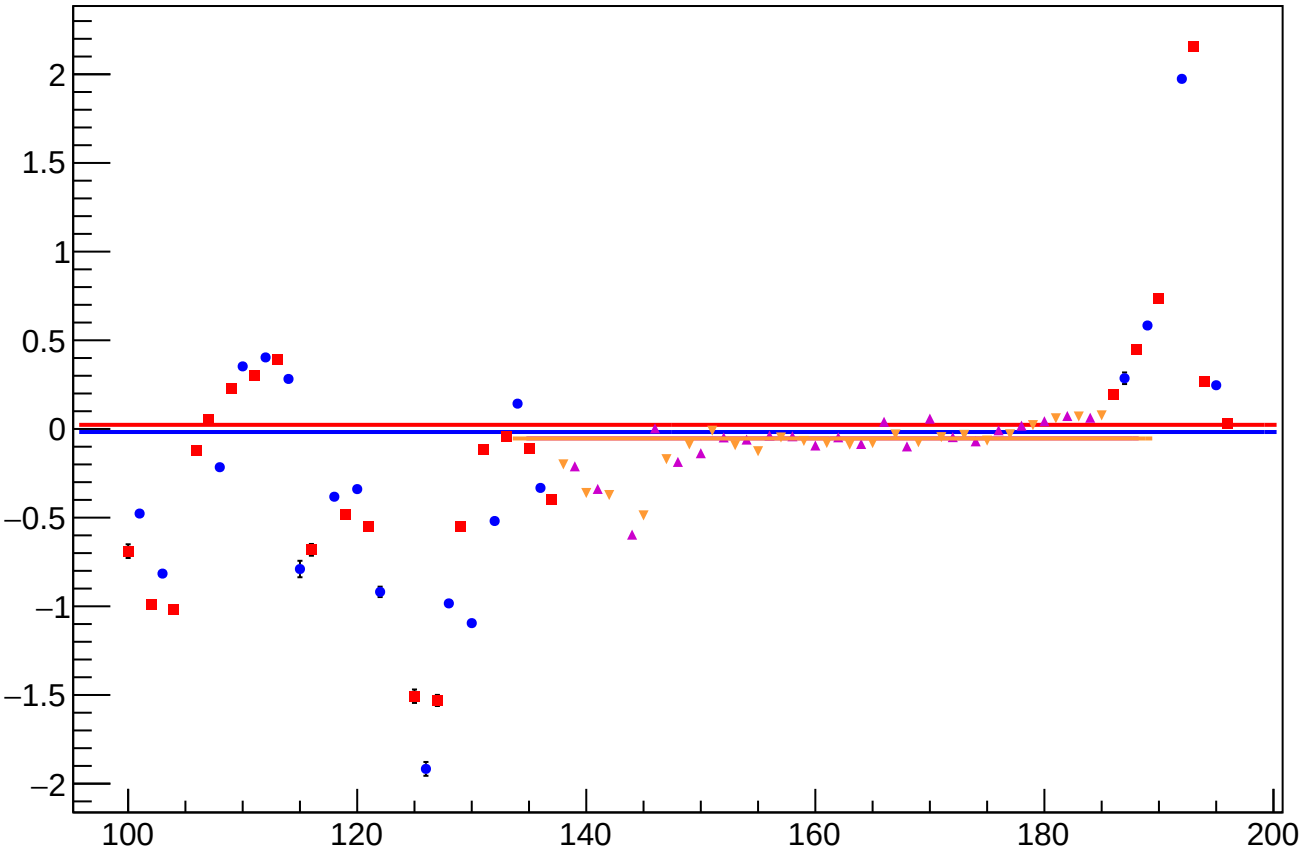
Left: -1.218+/-0.025 $\chi^2$/NDF: 11751.4/46

Right: -0.822+/-0.043 $\chi^2$/NDF: 12719.2/43

In: -0.985+/-0.031 $\chi^2$/NDF:14405.4/42

Out: -1.253+/-0.031 $\chi^2$/NDF:10090.1/47

All: -1.117+/-0.022 $\chi^2$/NDF: 24533.5/90




Right In: -0.017+/-0.003 $\chi^2$/NDF: 32503.6/19

Left Out: -0.054+/-0.002 $\chi^2$/NDF:4341.2/23

Right Out: 0.023+/-0.003 $\chi^2$/NDF: 32099.0/23

Left In: -0.053+/-0.001 $\chi^2$/NDF:5013.3/22

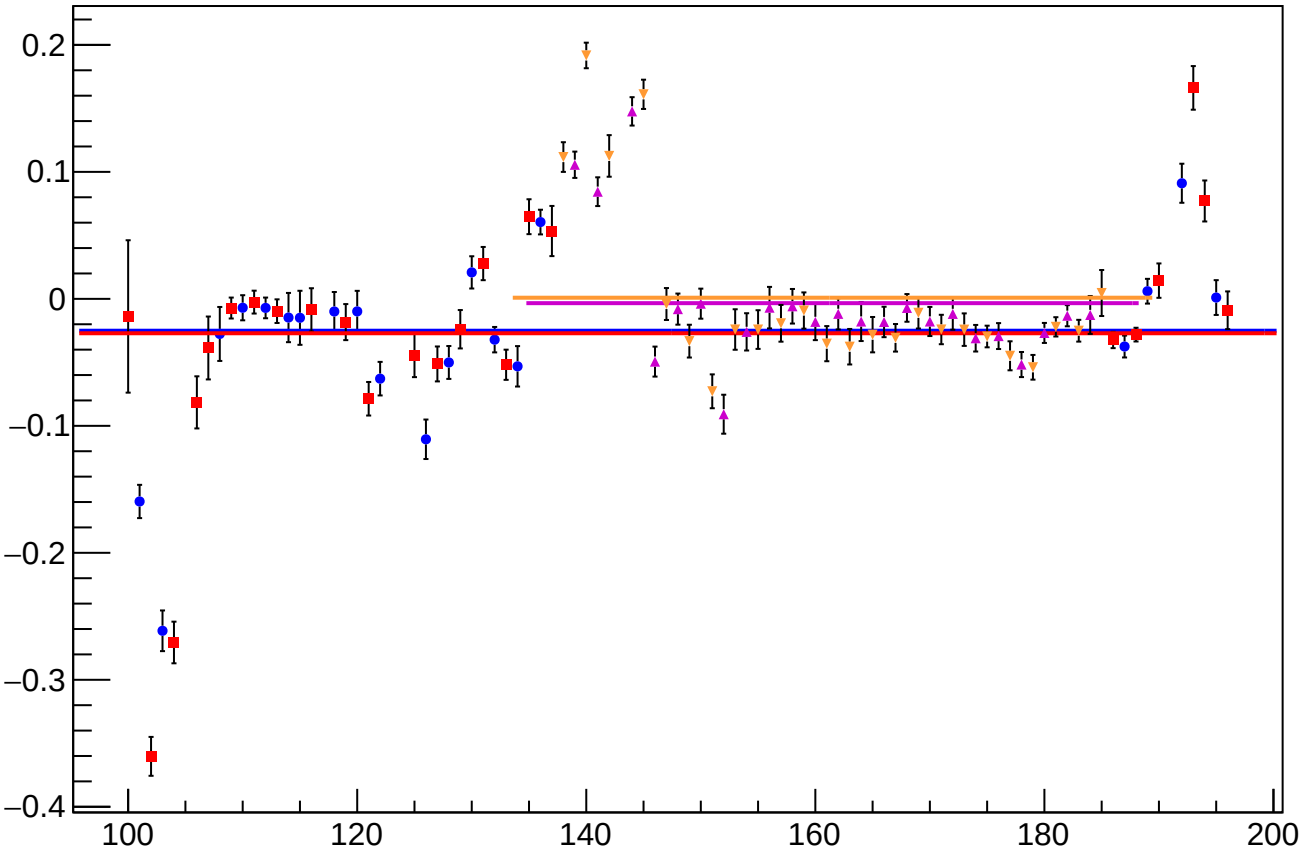
Left: -0.053+/-0.001 $\chi^2$/NDF: 9354.6/46

Right: 0.005+/-0.002 $\chi^2$/NDF: 64682.1/43

In: -0.047+/-0.001 $\chi^2$/NDF:37611.2/42

Out: -0.037+/-0.001 $\chi^2$/NDF:36947.4/47

All: -0.042+/-0.001 $\chi^2$/NDF: 74587.3/90




Right In: -0.025+/-0.003 $\chi^2$/NDF: 542.9/19

Left Out: 0.001+/-0.002 $\chi^2$/NDF:849.7/23

Right Out: -0.027+/-0.002 $\chi^2$/NDF: 1001.9/23

Left In: -0.003+/-0.002 $\chi^2$/NDF:457.9/22

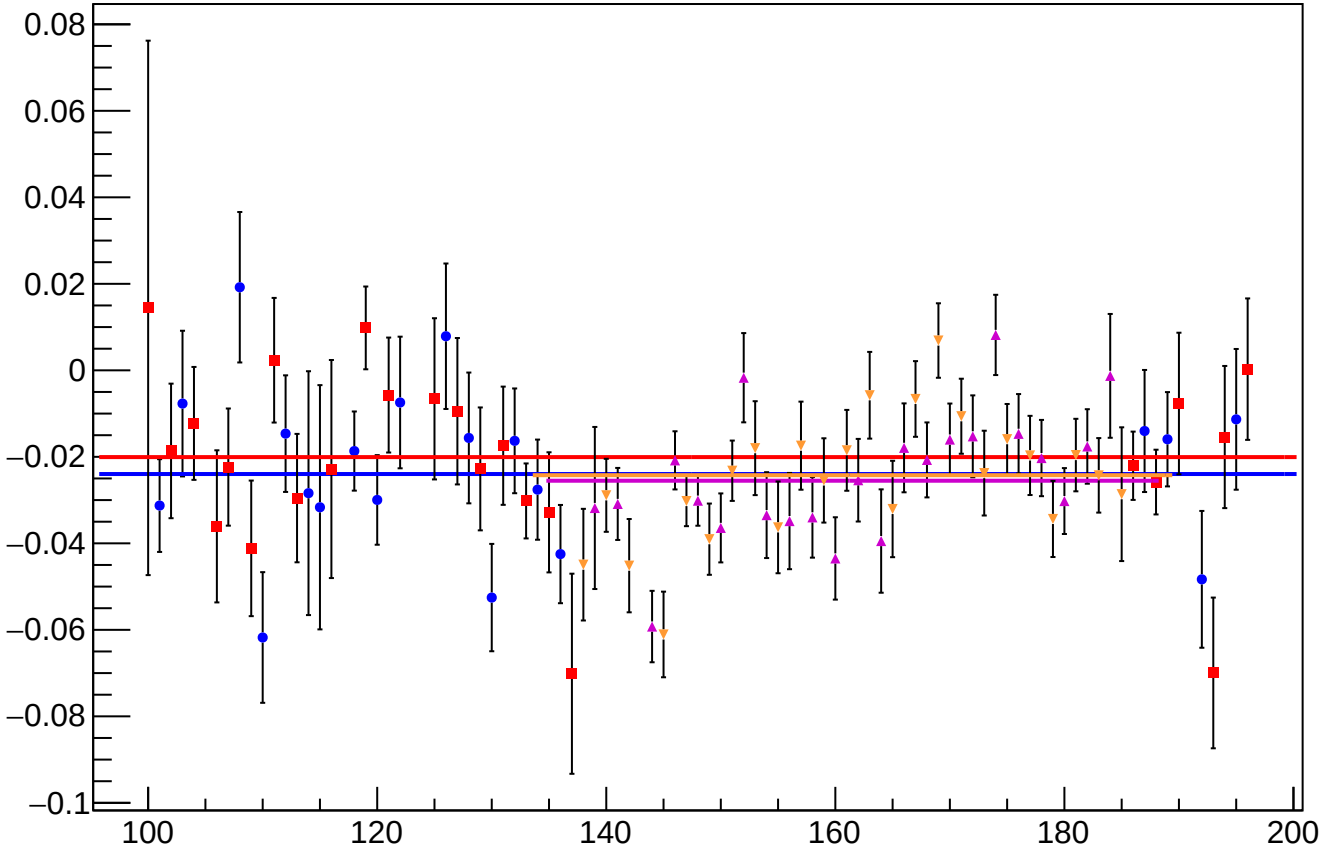
Left: -0.001+/-0.002 $\chi^2$/NDF: 1309.2/46

Right: -0.026+/-0.002 $\chi^2$/NDF: 1545.1/43

In: -0.013+/-0.002 $\chi^2$/NDF:1035.9/42

Out: -0.013+/-0.002 $\chi^2$/NDF:1919.9/47

All: -0.013+/-0.001 $\chi^2$/NDF: 2955.8/90




Right In: -0.024+/-0.003 $\chi^2$/NDF: 32.6/19

Left Out: -0.024+/-0.002 $\chi^2$/NDF:53.7/23

Right Out: -0.020+/-0.003 $\chi^2$/NDF: 36.0/23

Left In: -0.026+/-0.002 $\chi^2$/NDF:55.0/22

Left: -0.025+/-0.001 $\chi^2$/NDF: 109.0/46

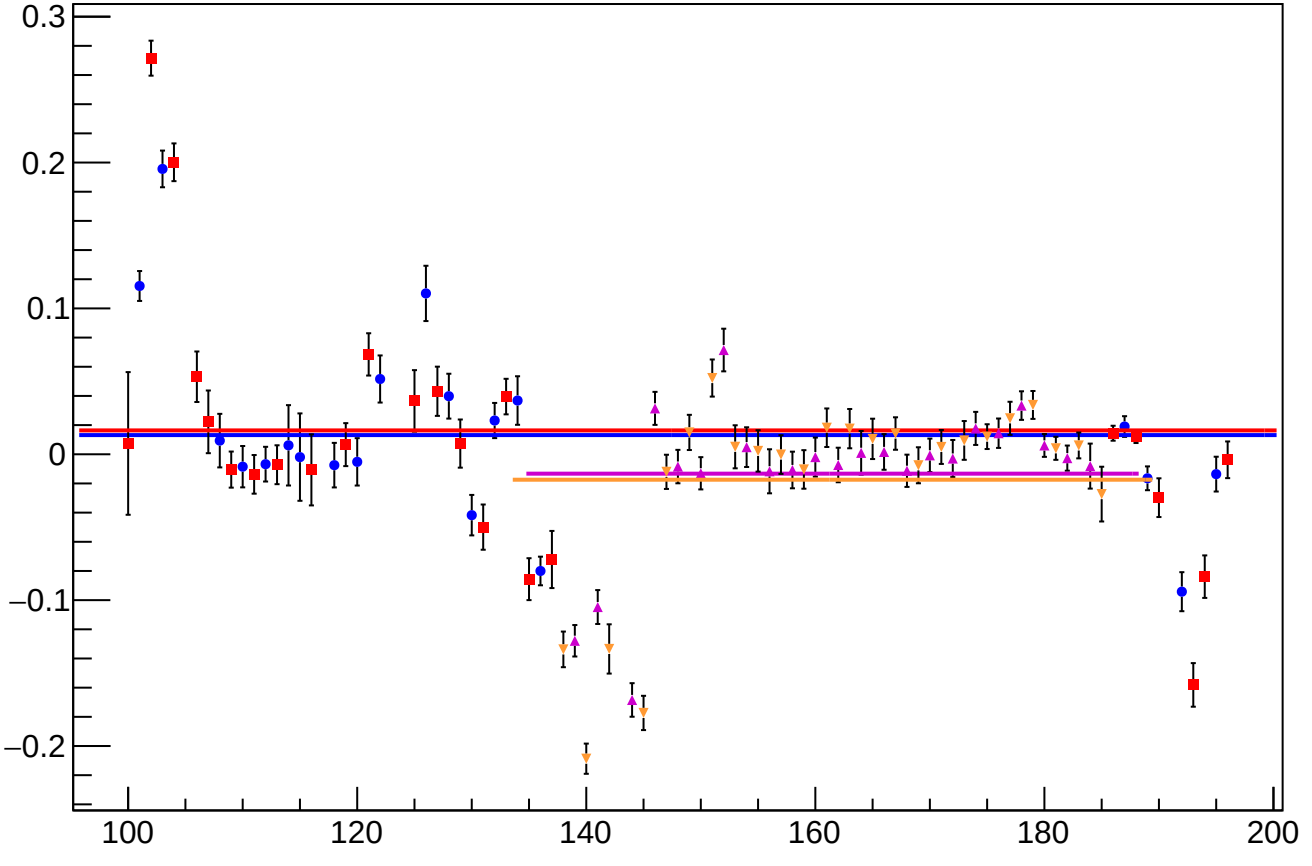
Right: -0.022+/-0.002 $\chi^2$/NDF: 69.6/43

In: -0.025+/-0.002 $\chi^2$/NDF:87.8/42

Out: -0.023+/-0.002 $\chi^2$/NDF:91.4/47

All: -0.024+/-0.001 $\chi^2$/NDF: 180.2/90

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs Slug, Sign Corrected




Right In: 0.013+/-0.003 $\chi^2$/NDF: 545.3/19

Left Out: -0.017+/-0.002 $\chi^2$/NDF:812.1/23

Right Out: 0.016+/-0.002 $\chi^2$/NDF: 982.6/23

Left In: -0.013+/-0.002 $\chi^2$/NDF:458.6/22

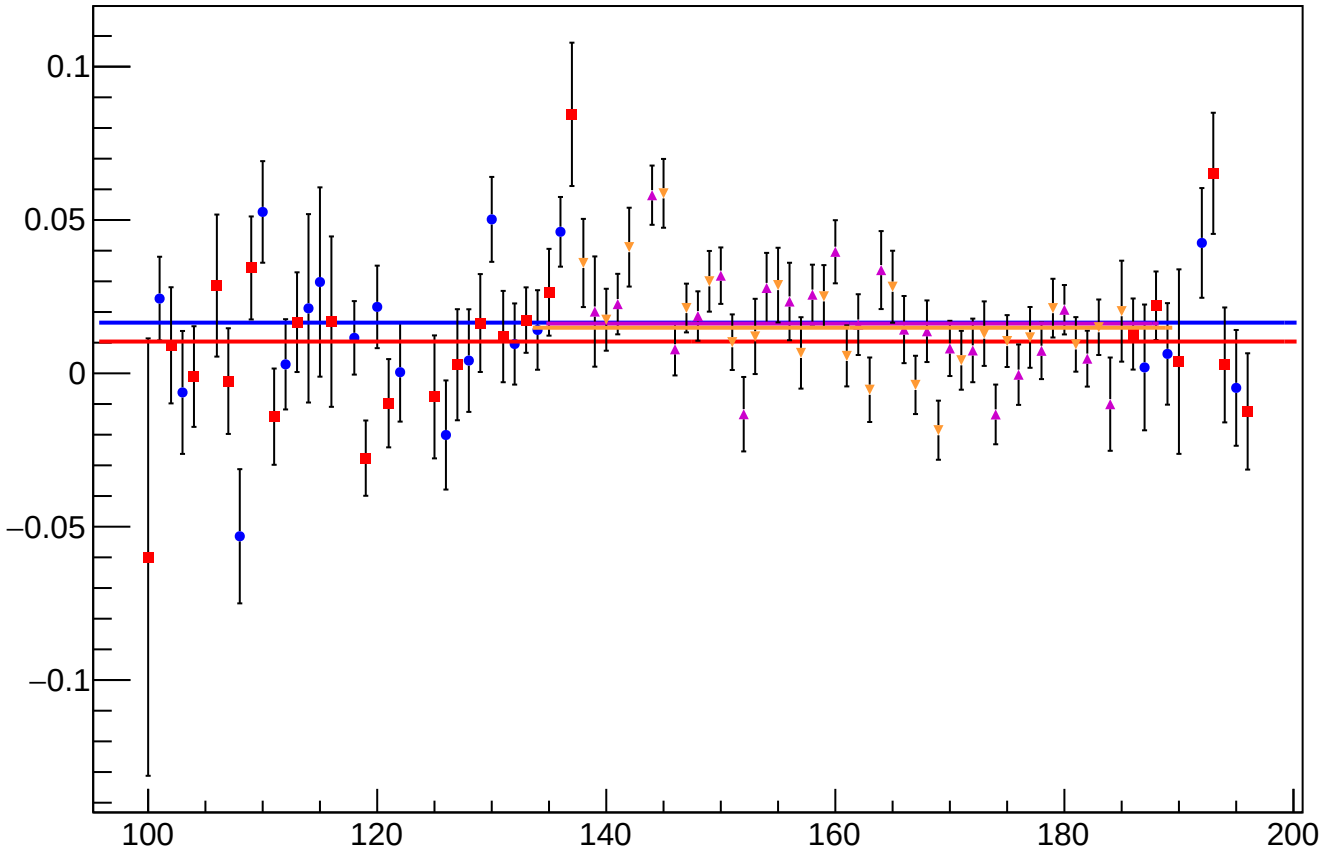
Left: -0.015+/-0.002 $\chi^2$/NDF: 1272.2/46

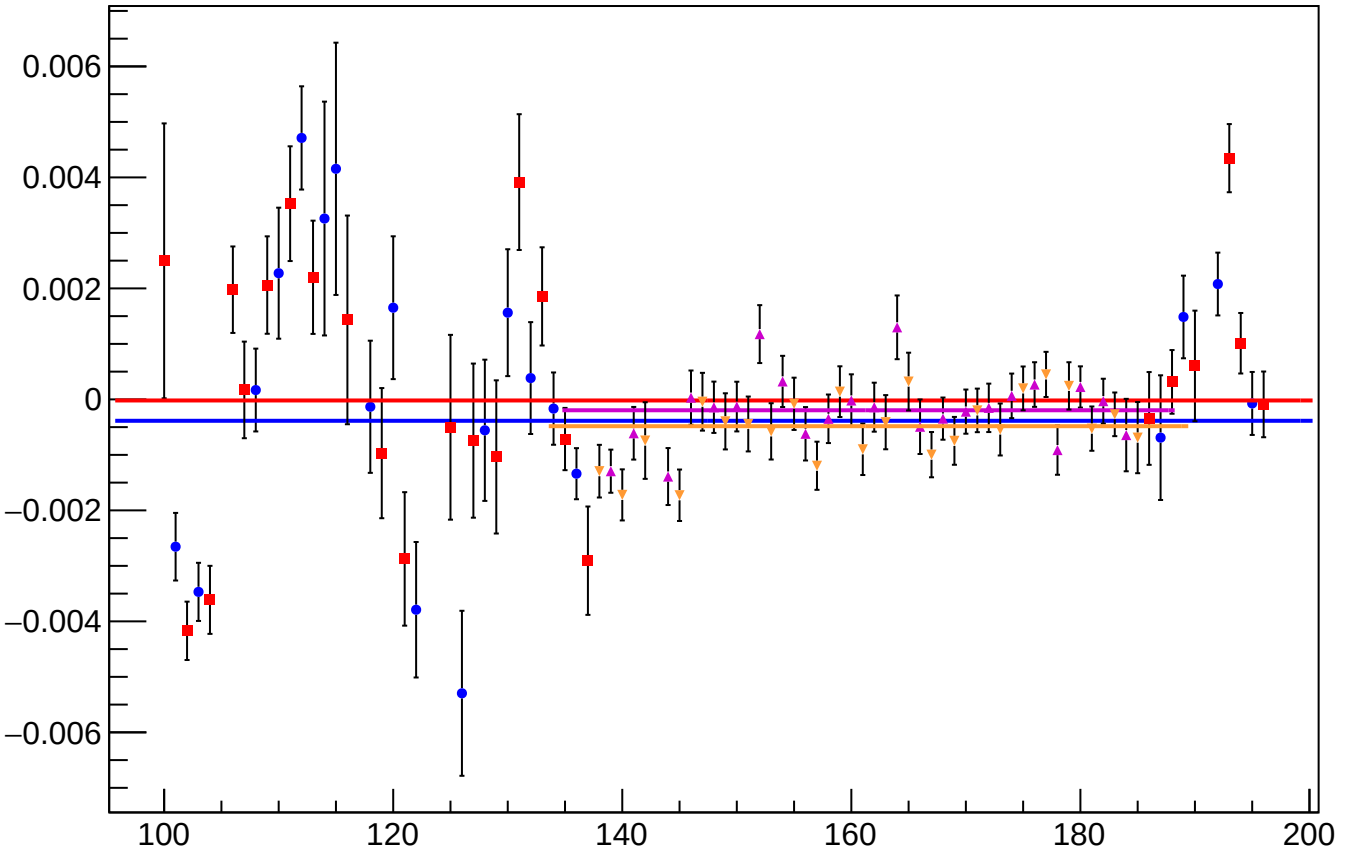
Right: 0.015+/-0.002 $\chi^2$/NDF: 1528.6/43

In: -0.002+/-0.002 $\chi^2$/NDF:1055.1/42

Out: -0.000+/-0.002 $\chi^2$/NDF:1898.6/47

All: -0.001+/-0.001 $\chi^2$/NDF: 2954.6/90


reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs Slug, Sign Corrected
0.1
0.05
0
−0.05
−0.1
100
120
140
160
180
200
Right In: 0.017+/-0.004 χ²/NDF: 41.0/19
Left Out: 0.015+/-0.002 χ²/NDF:52.1/23
Right Out: 0.010+/-0.003 χ²/NDF: 42.3/23
Left In: 0.016+/-0.002 χ²/NDF:58.0/22
Left: 0.016+/-0.001 χ²/NDF: 110.2/46
Right: 0.013+/-0.002 χ²/NDF: 84.9/43
In: 0.016+/-0.002 χ²/NDF:98.9/42
Out: 0.014+/-0.002 χ²/NDF:95.6/47
All: 0.015+/-0.001 χ²/NDF: 195.7/90




Right In: -0.000+/-0.000 $\chi^2$/NDF: 146.0/19

Left Out: -0.000+/-0.000 $\chi^2$/NDF:40.8/23

Right Out: -0.000+/-0.000 $\chi^2$/NDF: 214.3/23

Left In: -0.000+/-0.000 $\chi^2$/NDF:37.2/22

Left: -0.000+/-0.000 $\chi^2$/NDF: 82.8/46

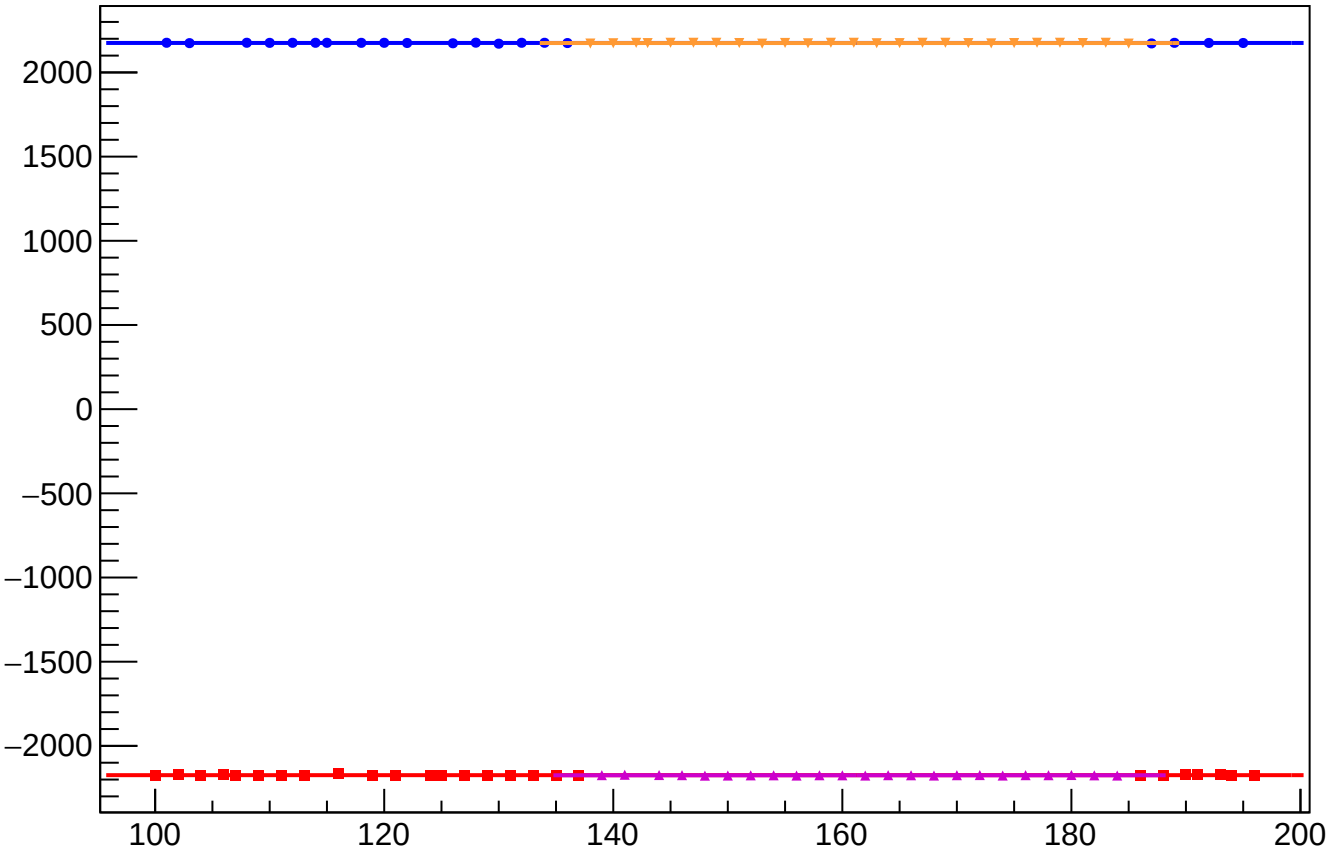
Right: -0.000+/-0.000 $\chi^2$/NDF: 362.6/43

In: -0.000+/-0.000 $\chi^2$/NDF:184.1/42

Out: -0.000+/-0.000 $\chi^2$/NDF:261.1/47

All: -0.000+/-0.000 $\chi^2$/NDF: 446.5/90

# HALLA_p_mean vs Slug, Sign Corrected




Right In: 2175.171+/-0.000 $\chi^2$/NDF: 19482825565855141706710737045422208.0/19

Left Out: 2174.643+/-0.000 $\chi^2$/NDF:52116844463194421571996575984517112.0/24

Right Out: -2173.921+/-0.000 $\chi^2$/NDF: 90268288048178638865839971431874456.0/25

Left In: -2174.573+/-0.000 $\chi^2$/NDF:34312670977938388457288638157291520.0/22

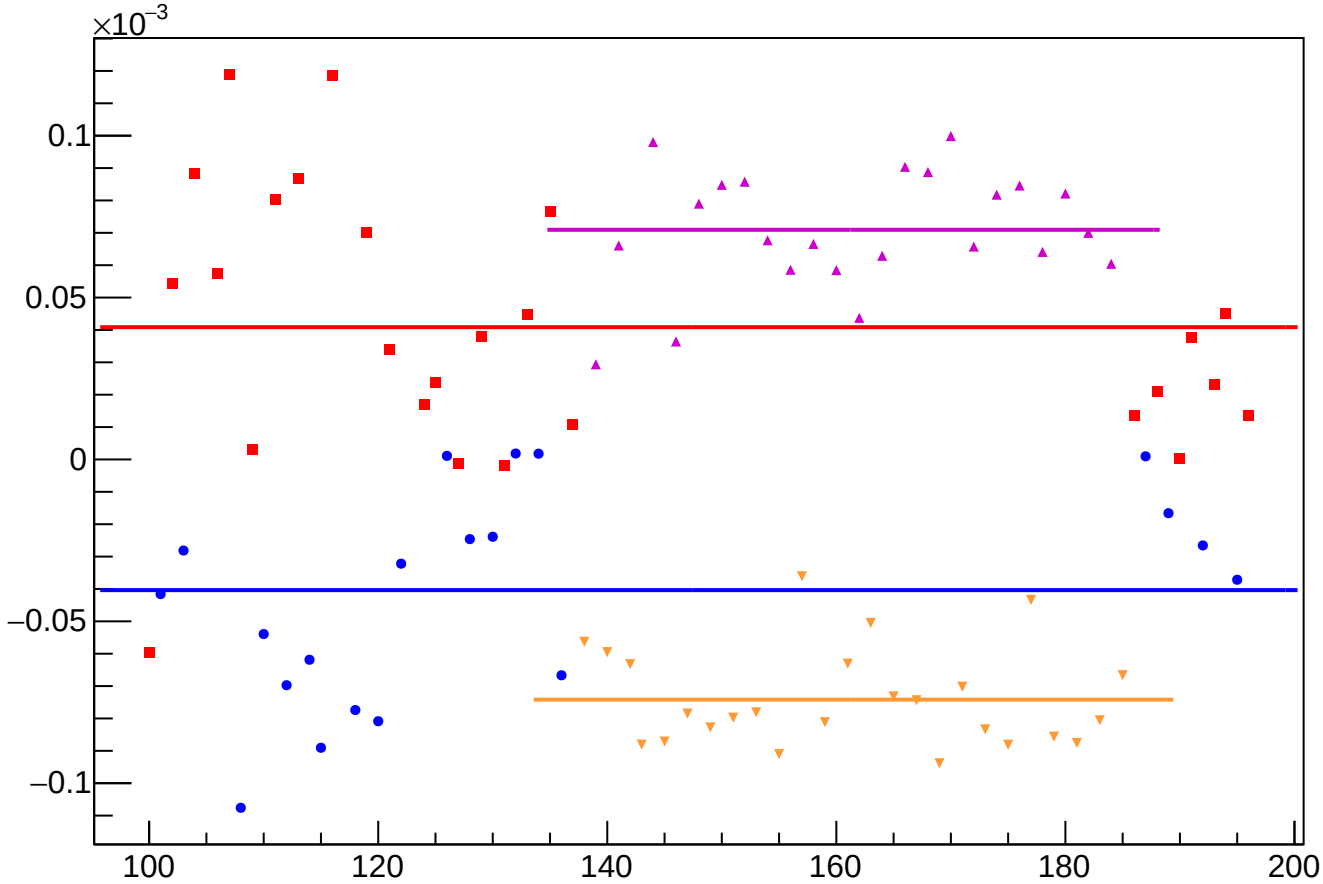
Left: 62.103+/-0.000 $\chi^2$/NDF: 18541167673153150

Right: -208.994+/-0.000 $\chi^2$/NDF: 10400067412601

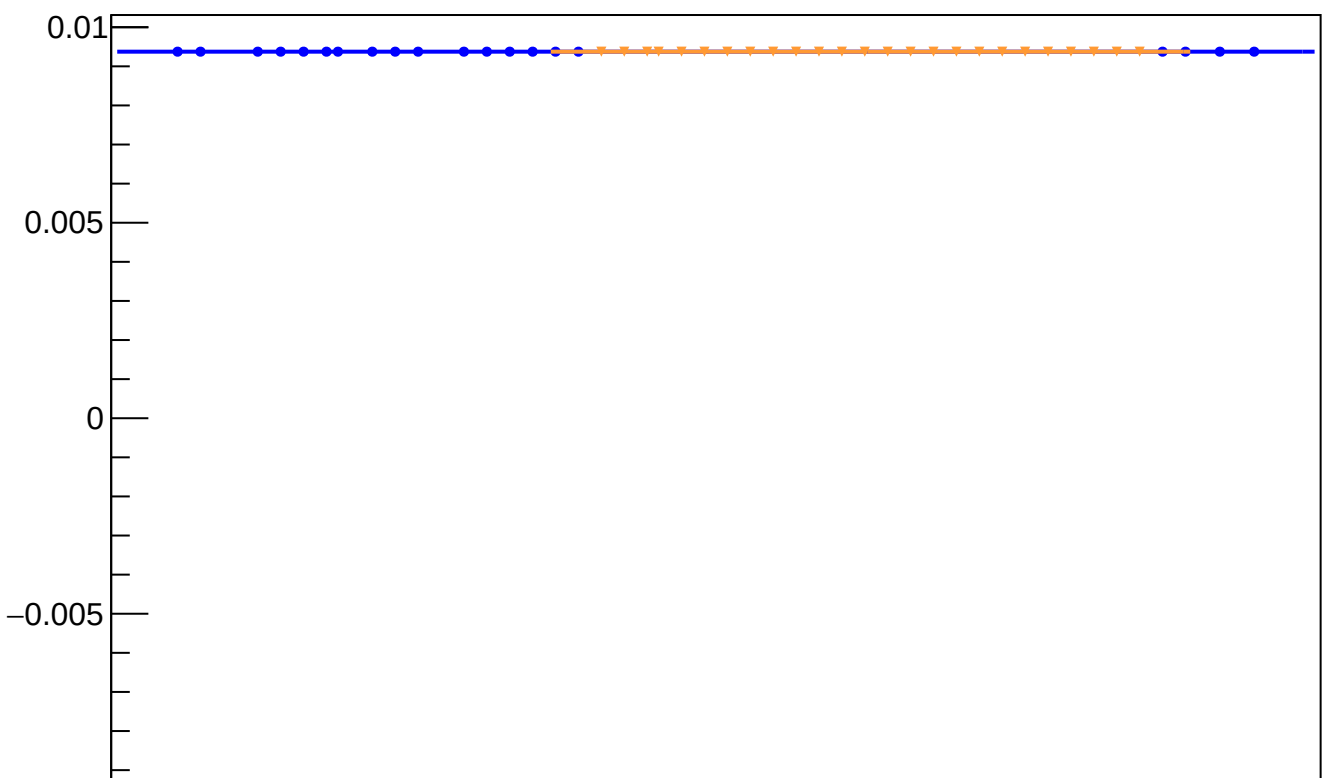
In: -674.816+/-0.000 $\chi^2$/NDF:1243390639061820

Out: 538.722+/-0.000 $\chi^2$/NDF:1435587113700441

All: -35.852+/-0.000 $\chi^2$/NDF: 290454379096


HALLA_dpp_mean vs Slug, Sign Corrected
×10⁻³
0.1
0.05
0
−0.05
−0.1
100
120
140
160
180
200
Right In: -0.000+/-0.000 χ²/NDF: 814300997583751771848704.0/19
Left Out: -0.000+/-0.000 χ²/NDF:4718347685513097925099520/24
Right Out: 0.000+/-0.000 χ²/NDF: 13031342748576655899361280/25
Left In: 0.000+/-0.000 χ²/NDF:631091526789889368522752.0/22
Left: -0.000+/-0.000 χ²/NDF: 21745673800575022
Right: 0.000+/-0.000 χ²/NDF: 57445504695171166
In: 0.000+/-0.000 χ²/NDF:9586500996680051048
Out: -0.000+/-0.000 χ²/NDF:11821535133525689
All: -0.000+/-0.000 χ²/NDF: 2757767744891

# MQ171LM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

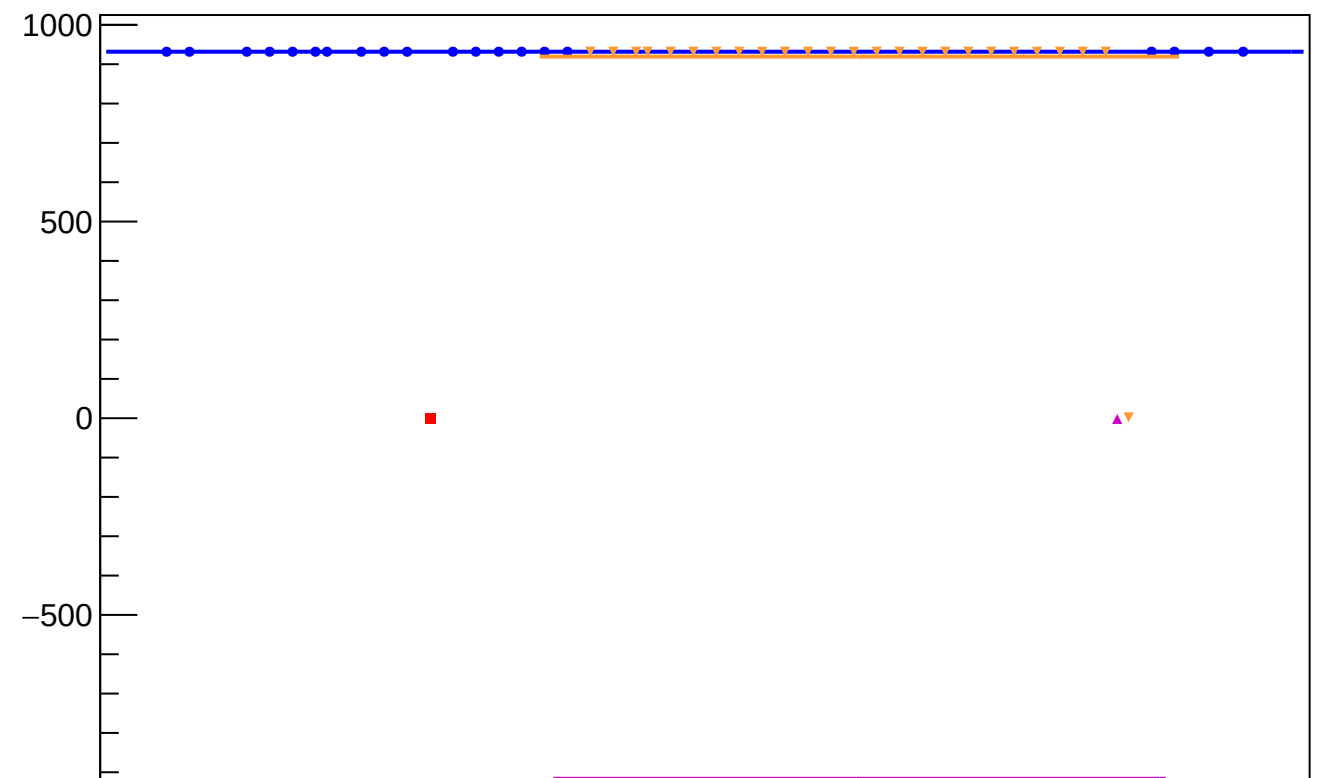
Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861

# HacL_Q2_HP3458A_IOUT_mean vs Slug, Sign Corrected




Right In: 931.778+/-0.000 $\chi^2$/NDF: 3178912956745700694145395326976.0/19

Left Out: 919.347+/-0.000 $\chi^2$/NDF:230211234962152806190415261330812436 48.0/24

Right Out: -920.298+/-0.000 $\chi^2$/NDF: 1286186736034496279070061469983624 3968.0/25

Left In: -916.654+/-0.000 $\chi^2$/NDF:263697449311835480737856648421855723 52.0/22

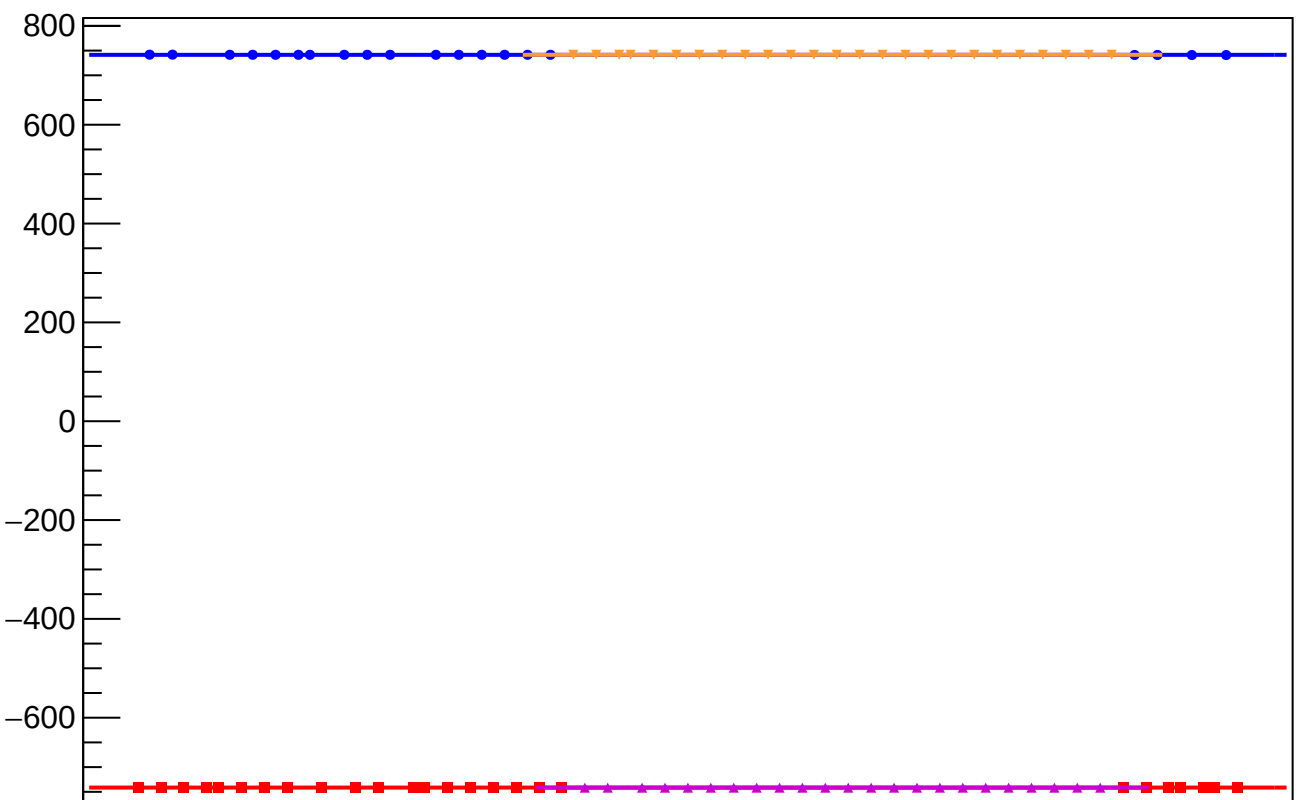
Left: 27.548+/-0.000 $\chi^2$/NDF: 3353551808219363

Right: -83.527+/-0.000 $\chi^2$/NDF: 1898922806641708

In: -279.330+/-0.000 $\chi^2$/NDF:2271734922701191

Out: 227.277+/-0.000 $\chi^2$/NDF:2605127666088131

All: -12.586+/-0.000 $\chi^2$/NDF: 526996760669




Right In: 741.437+/-0.000 $\chi^2$/NDF: 5685494828219514318587792510156 8.0/19

Left Out: 741.513+/-0.000 $\chi^2$/NDF:2519763107681262962318896005 12.0/24

Right Out: -741.391+/-0.000 $\chi^2$/NDF: 8021428014457121196600931962060 8.0/25

Left In: -741.513+/-0.000 $\chi^2$/NDF:2347039830300854231858958827 52.0/22

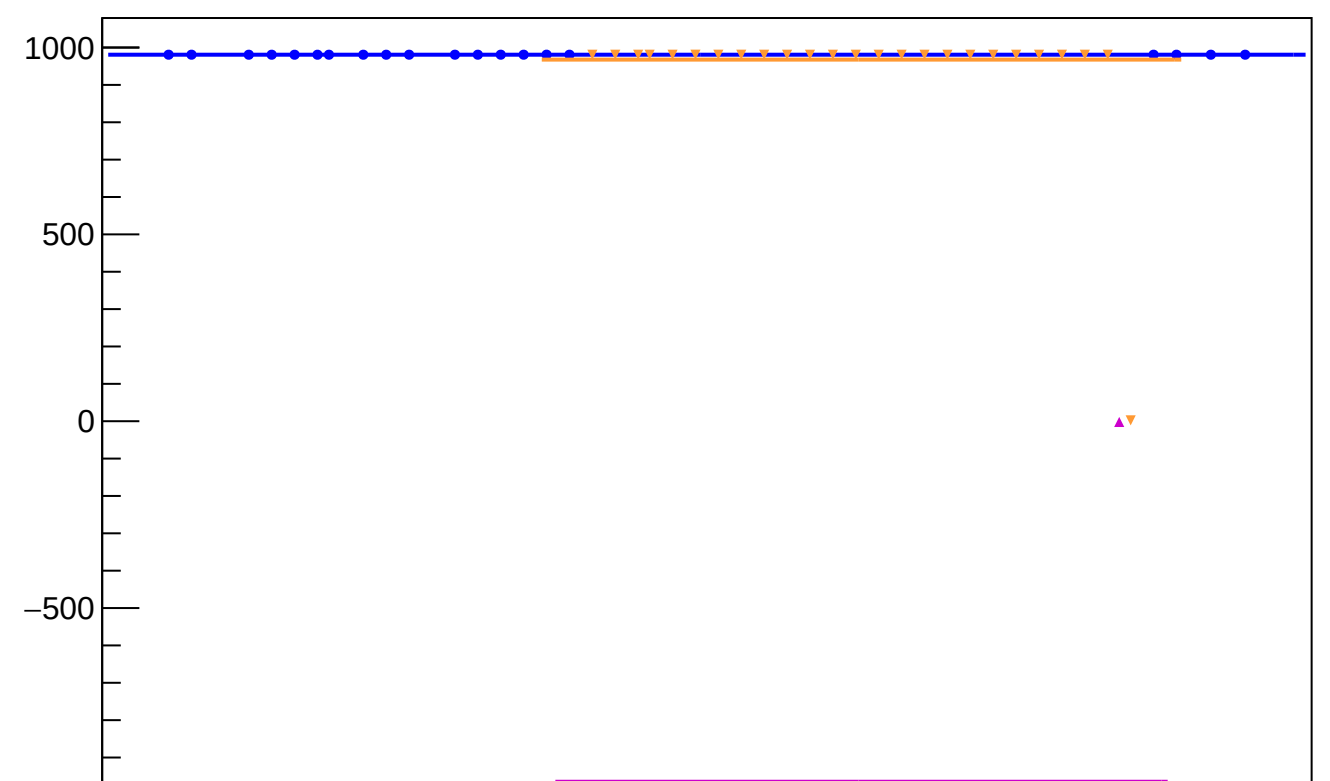
Left: 21.165+/-0.000 $\chi^2$/NDF: 2155819118342563

Right: -71.447+/-0.000 $\chi^2$/NDF: 120898283890686

In: -230.203+/-0.000 $\chi^2$/NDF:1445216192524645

Out: 183.648+/-0.000 $\chi^2$/NDF:1669412249017283

All: -12.298+/-0.000 $\chi^2$/NDF: 337696269708




Right In: 980.803+/-0.000 $\chi^2$/NDF: 954196574176651748625277255680.0/19

Left Out: 967.677+/-0.000 $\chi^2$/NDF:2550515560327992564154129577963369267 2.0/24

Right Out: -980.775+/-0.000 $\chi^2$/NDF: 6335563729780612887971337601024 0.0/25

Left In: -964.854+/-0.000 $\chi^2$/NDF:29215838960103078784112845628245016576.0/22

Left: 28.991+/-0.000 $\chi^2$/NDF: 37154523356806808

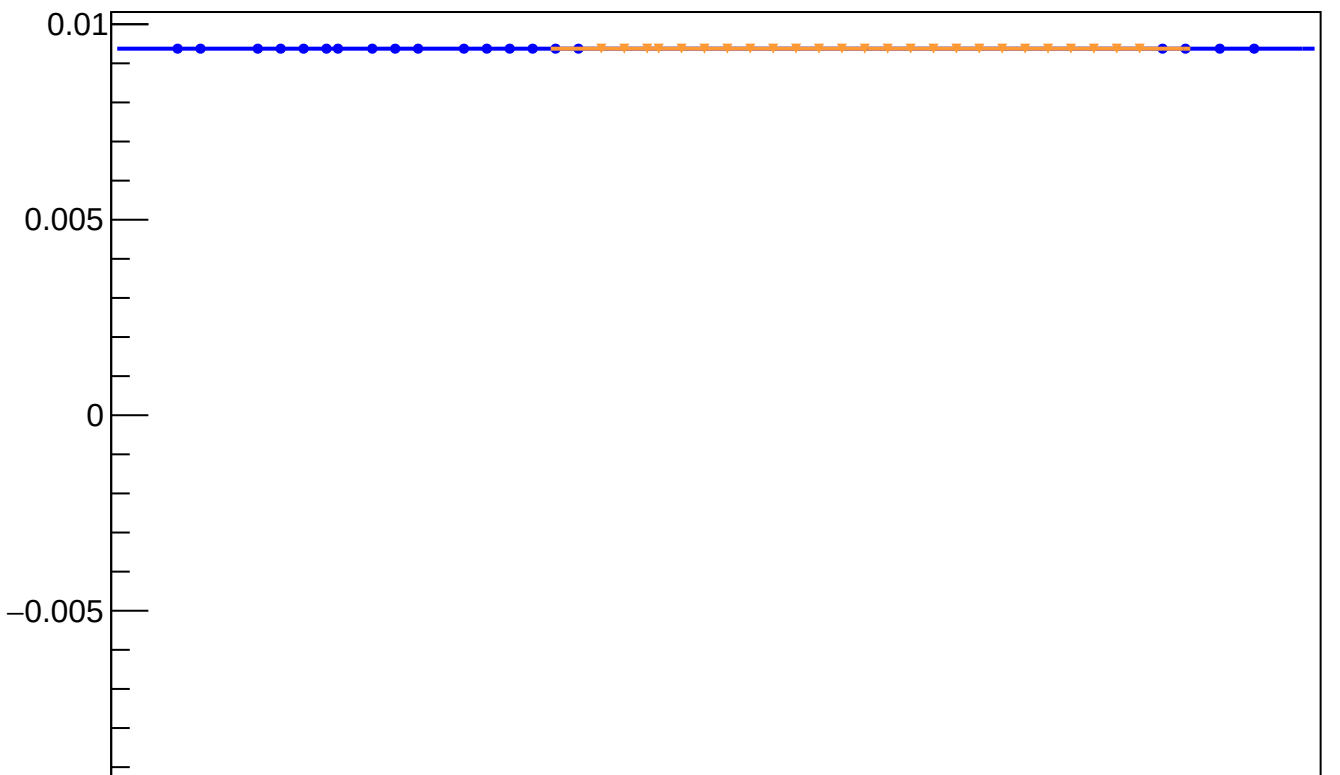
Right: -94.530+/-0.000 $\chi^2$/NDF: 2115678092313830

In: -294.007+/-0.000 $\chi^2$/NDF:2516999650791736

Out: 234.673+/-0.000 $\chi^2$/NDF:290765565322638

All: -15.641+/-0.000 $\chi^2$/NDF: 585276328858

# MQ172RM_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

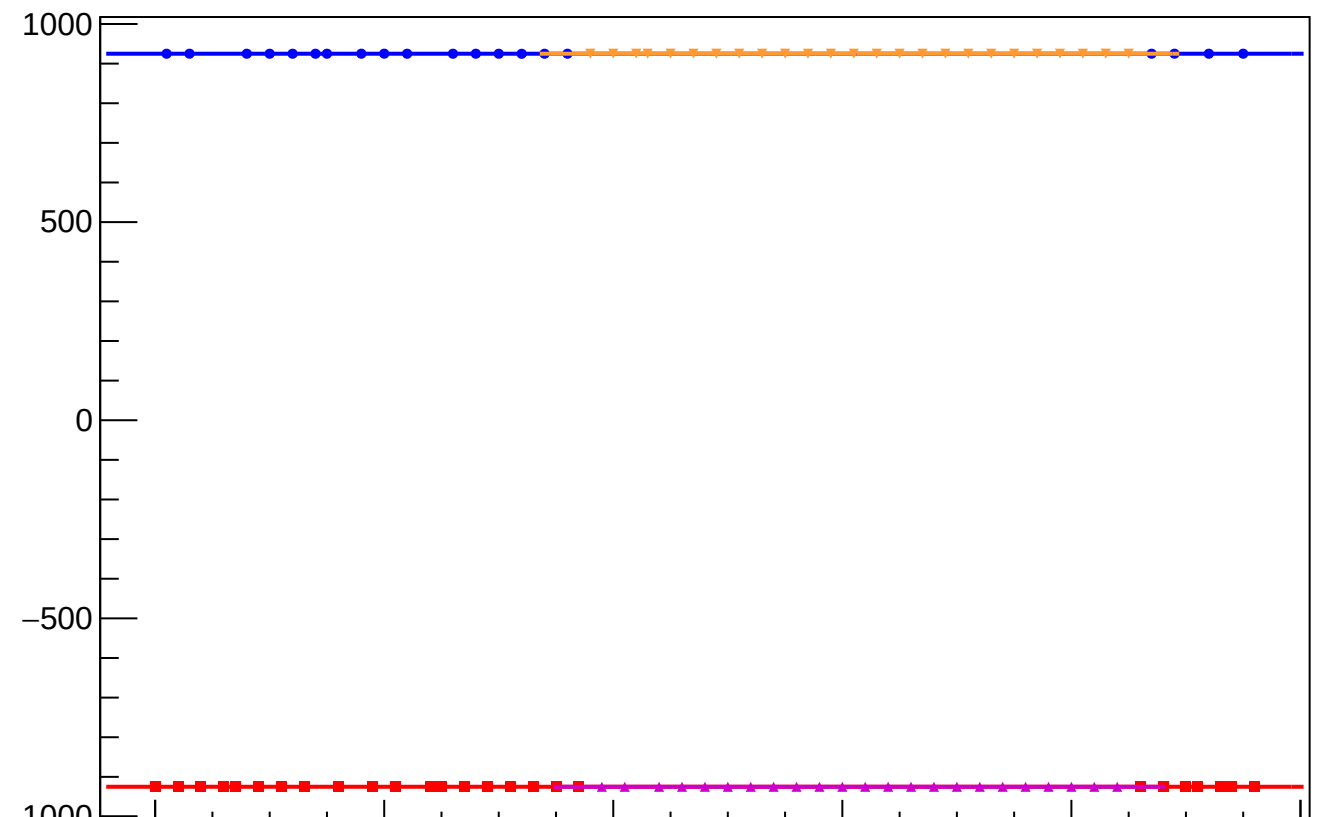
Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861




Left: 26.401+/-0.000 $\chi^2$/NDF: 3354615142636374

Right In: 924.980+/-0.000 $\chi^2$/NDF: 3150712355224612567697739218944.0/19

Right: -89.170+/-0.000 $\chi^2$/NDF: 188177707339106

Left Out: 924.983+/-0.000 $\chi^2$/NDF:1161112698344246137667167715328.0/24

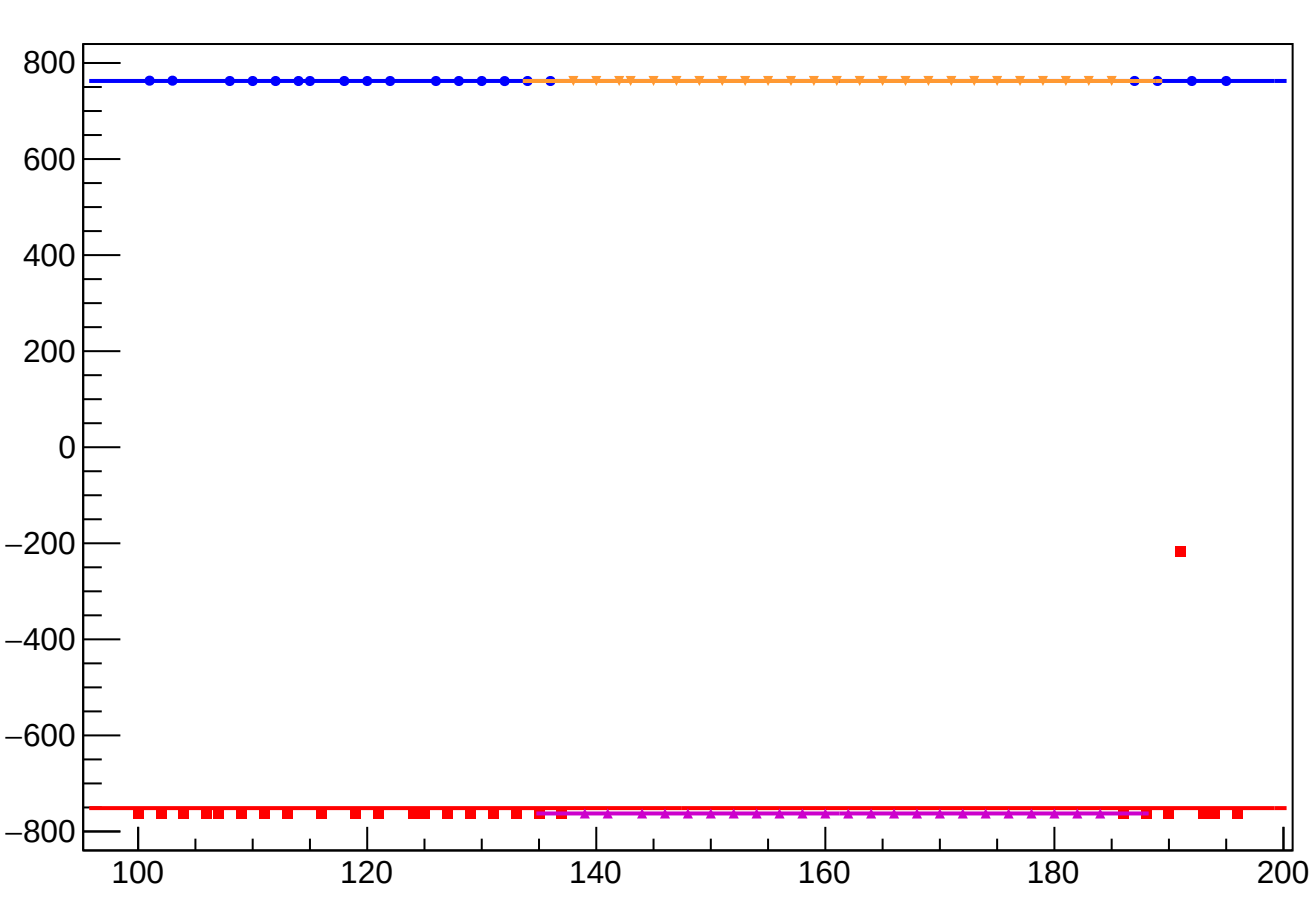
In: -287.130+/-0.000 $\chi^2$/NDF:2249087815398105

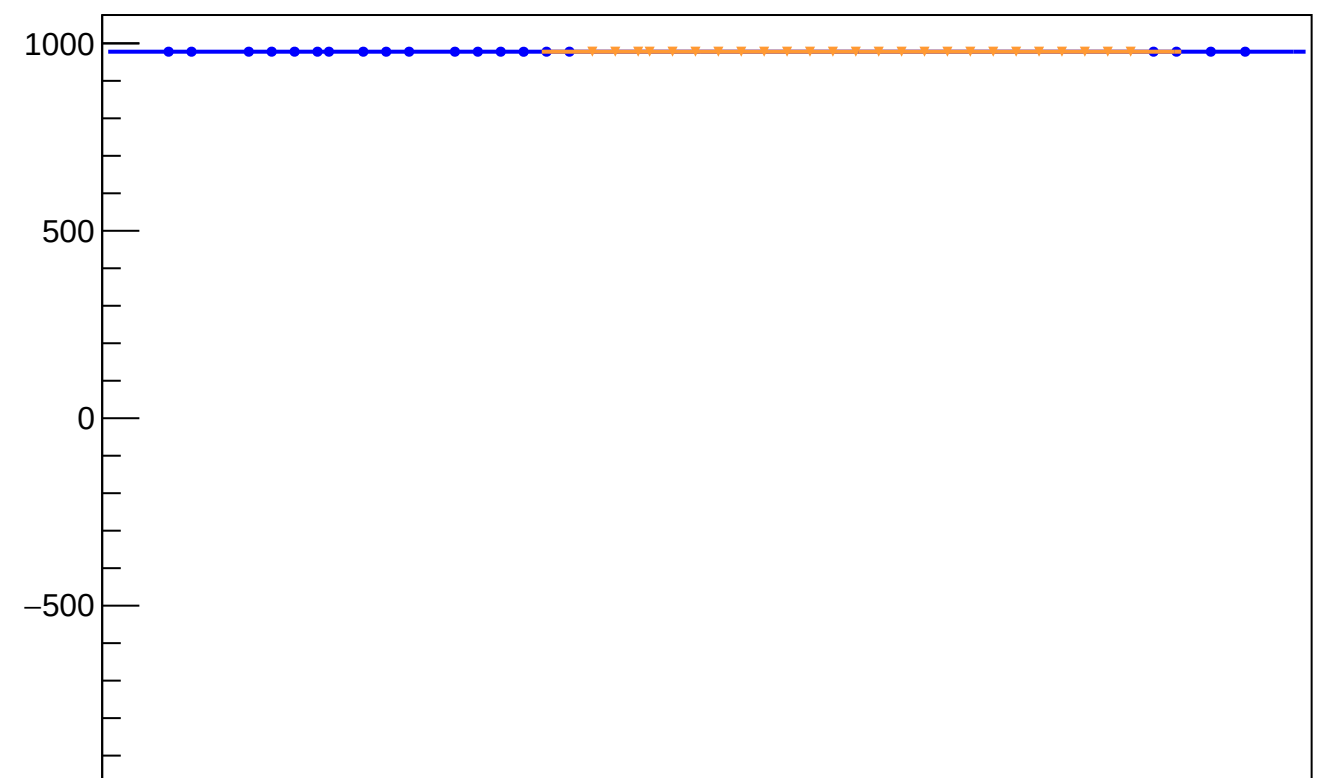
Right Out: -924.990+/-0.000 $\chi^2$/NDF: 178874237137955564493787155660 8.0/25

Out: 229.027+/-0.000 $\chi^2$/NDF:259817518219801

Left In: -924.983+/-0.000 $\chi^2$/NDF:928270307181587701368348475392.0/22

All: -15.358+/-0.000 $\chi^2$/NDF: 525533009355


HacR_D1_HP3458A_IOUT_mean vs Slug, Sign Corrected
800
600
400
200
0
−200
−400
−600
−800
100
120
140
160
180
200
Right In: 762.593+/-0.000 χ²/NDF: 5318923789383977867362043743436 8.0/19
Left Out: 762.518+/-0.000 χ²/NDF:767703709161817083348479115264.0/24
Right Out: -751.387+/-0.000 χ²/NDF: 728708590141968773317265177965703 9872.0/25
Left In: -762.519+/-0.000 χ²/NDF:67064753778125939445211961753 6.0/22
Left: 21.764+/-0.000 χ²/NDF: 22796901664040585
Right: -67.368+/-0.000 χ²/NDF: 126760001011985
In: -236.672+/-0.000 χ²/NDF:1528562677994589
Out: 192.991+/-0.000 χ²/NDF:1747228465017690
All: -10.442+/-0.000 χ²/NDF: 355855427615




Right In: 977.754+/-0.000 $\chi^2$/NDF: 21029778974692027626611267338240.0/19

Left Out: 977.738+/-0.000 $\chi^2$/NDF:11784078725663365723250009047040.0/24

Right Out: -977.750+/-0.000 $\chi^2$/NDF: 26831117207544397485698847866880.0/25

Left In: -977.735+/-0.000 $\chi^2$/NDF:10967664376054172546270725406720.0/22

Left: 27.908+/-0.000 $\chi^2$/NDF: 37481642757083146

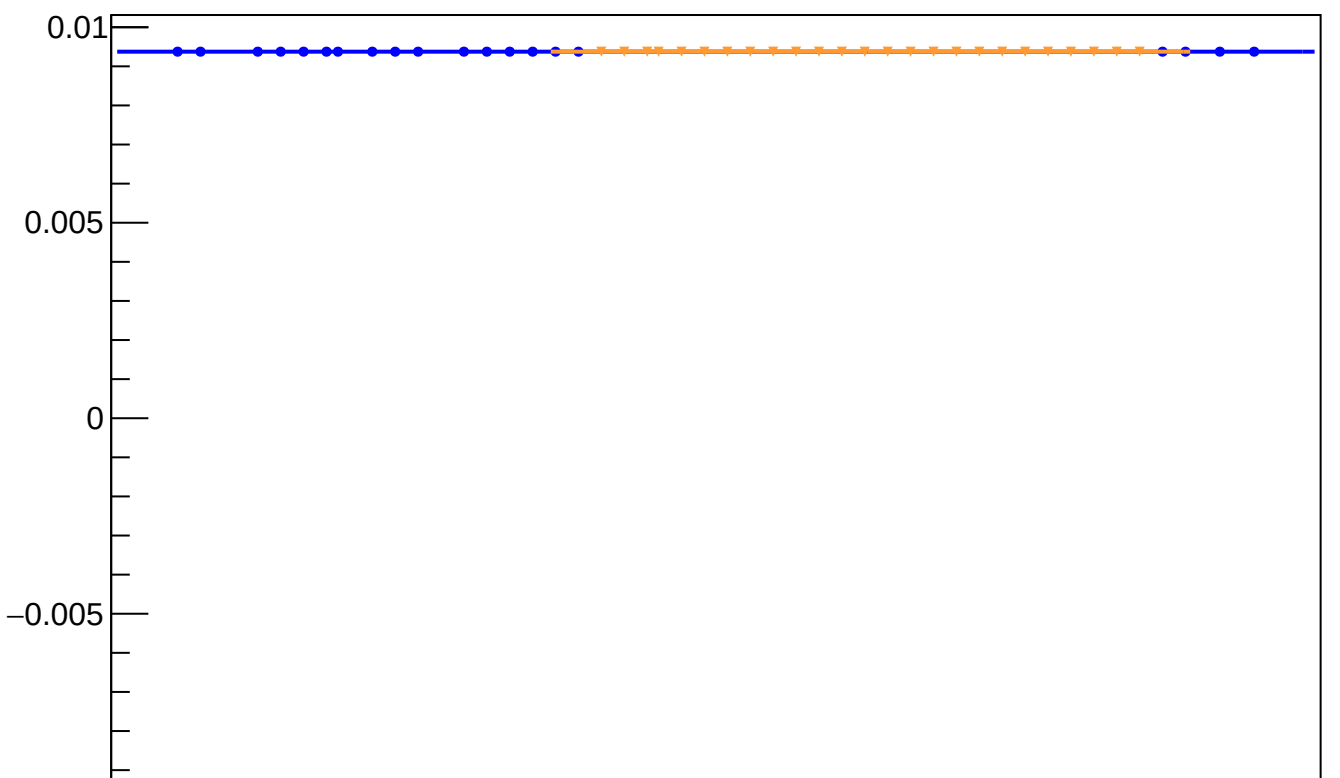
Right: -94.250+/-0.000 $\chi^2$/NDF: 210259813000897

In: -303.498+/-0.000 $\chi^2$/NDF:2512991829328795

Out: 242.087+/-0.000 $\chi^2$/NDF:2903004982054475

All: -16.231+/-0.000 $\chi^2$/NDF: 587192038054

# hesDipole_current_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

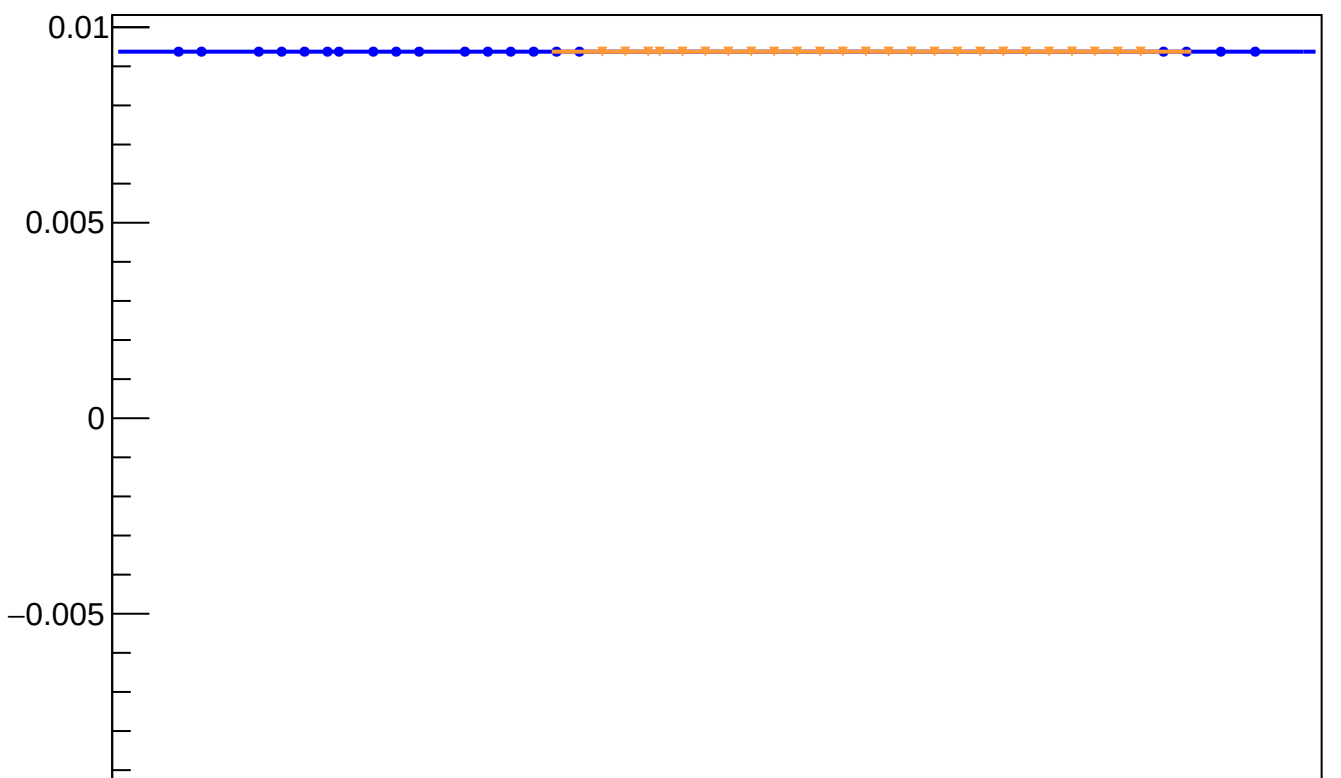
Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

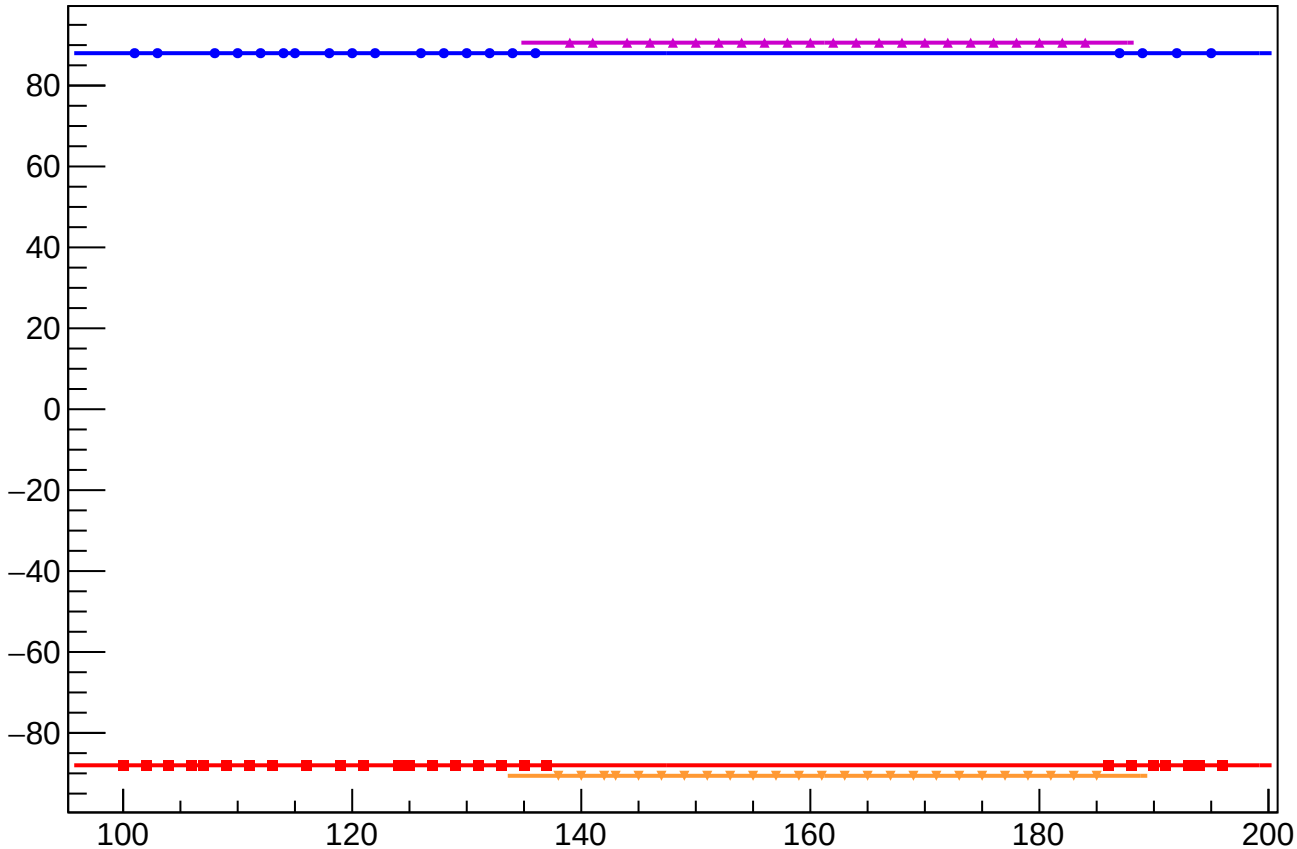
Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861

# VWienAngle_mean vs Slug, Sign Corrected




Right In: 88.001+/-0.000 $\chi^2$/NDF: 2095618.5/19

Left Out: -90.599+/-0.000 $\chi^2$/NDF:5219558.1/24

Right Out: -88.002+/-0.000 $\chi^2$/NDF: 753076388048539839013553438720/25

Left In: 90.599+/-0.000 $\chi^2$/NDF:7520558.1/22

Left: -2.586+/-0.000 $\chi^2$/NDF: 32182865130583949

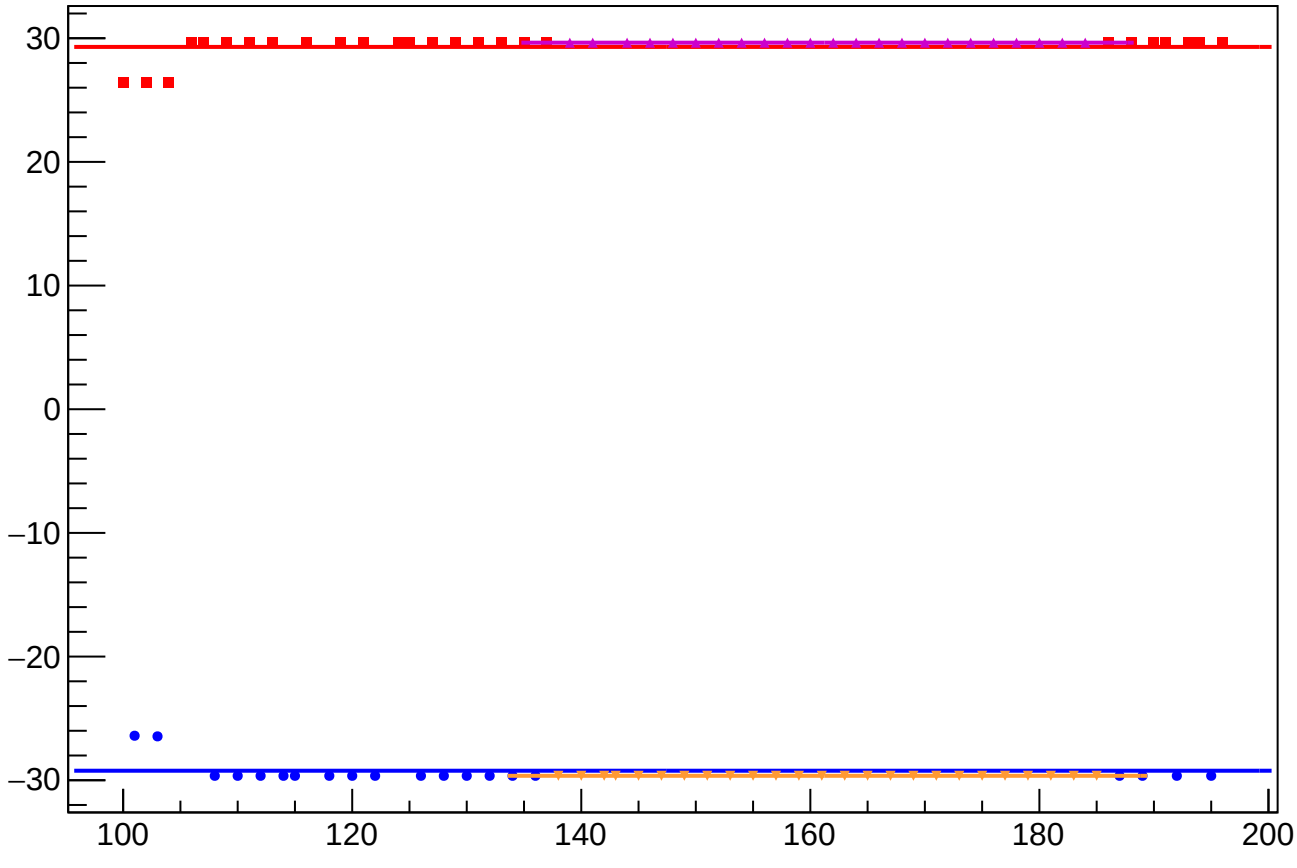
Right: -8.484+/-0.000 $\chi^2$/NDF: 17032530669253973

In: 89.703+/-0.000 $\chi^2$/NDF:443768924806462462

Out: -89.622+/-0.000 $\chi^2$/NDF:5119810218723864

All: -4.717+/-0.000 $\chi^2$/NDF: 4926471720901

# HWienAngle_mean vs Slug, Sign Corrected




Right In: -29.230+/-0.000 $\chi^2$/NDF: 1154054866258381624367081410527232.0/19

Left Out: -29.641+/-0.000 $\chi^2$/NDF:409122.2/24

Right Out: 29.297+/-0.000 $\chi^2$/NDF: 121064844305670865610638964136345 6.0/25

Left In: 29.641+/-0.000 $\chi^2$/NDF:290780.4/22

Left: -0.846+/-0.000 $\chi^2$/NDF: 34447051473431892

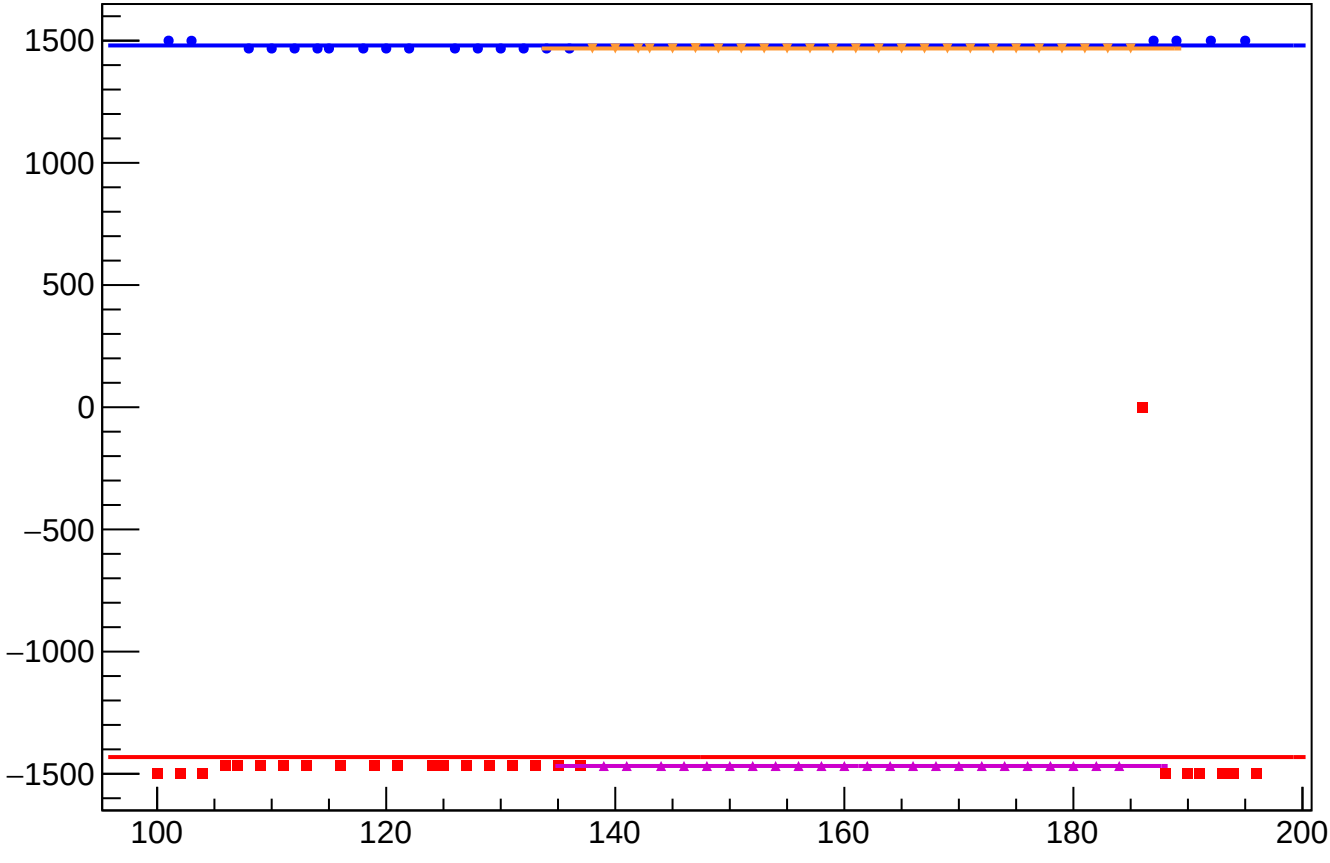
Right: 2.854+/-0.000 $\chi^2$/NDF: 18858480450517814

In: 9.342+/-0.000 $\chi^2$/NDF:2278794941114804916

Out: -7.468+/-0.000 $\chi^2$/NDF:26383180948921940

All: 0.491+/-0.000 $\chi^2$/NDF: 5349967273697 6

# psub_pl_pos_mean vs Slug, Sign Corrected




Right In: 1480.398+/-0.000 $\chi^2$/NDF: 2431640183897078476621305338868531200/19

Left Out: 1468.051+/-0.000 $\chi^2$/NDF:139558223587677068165594208010240.0/24

Right Out: -1431.553+/-0.000 $\chi^2$/NDF: 894471917696623869393188896409093406720/25

Left In: -1467.994+/-0.000 $\chi^2$/NDF:1554938089860967537552245391360/22

Left: 41.929+/-0.000 $\chi^2$/NDF: 84496793302930950

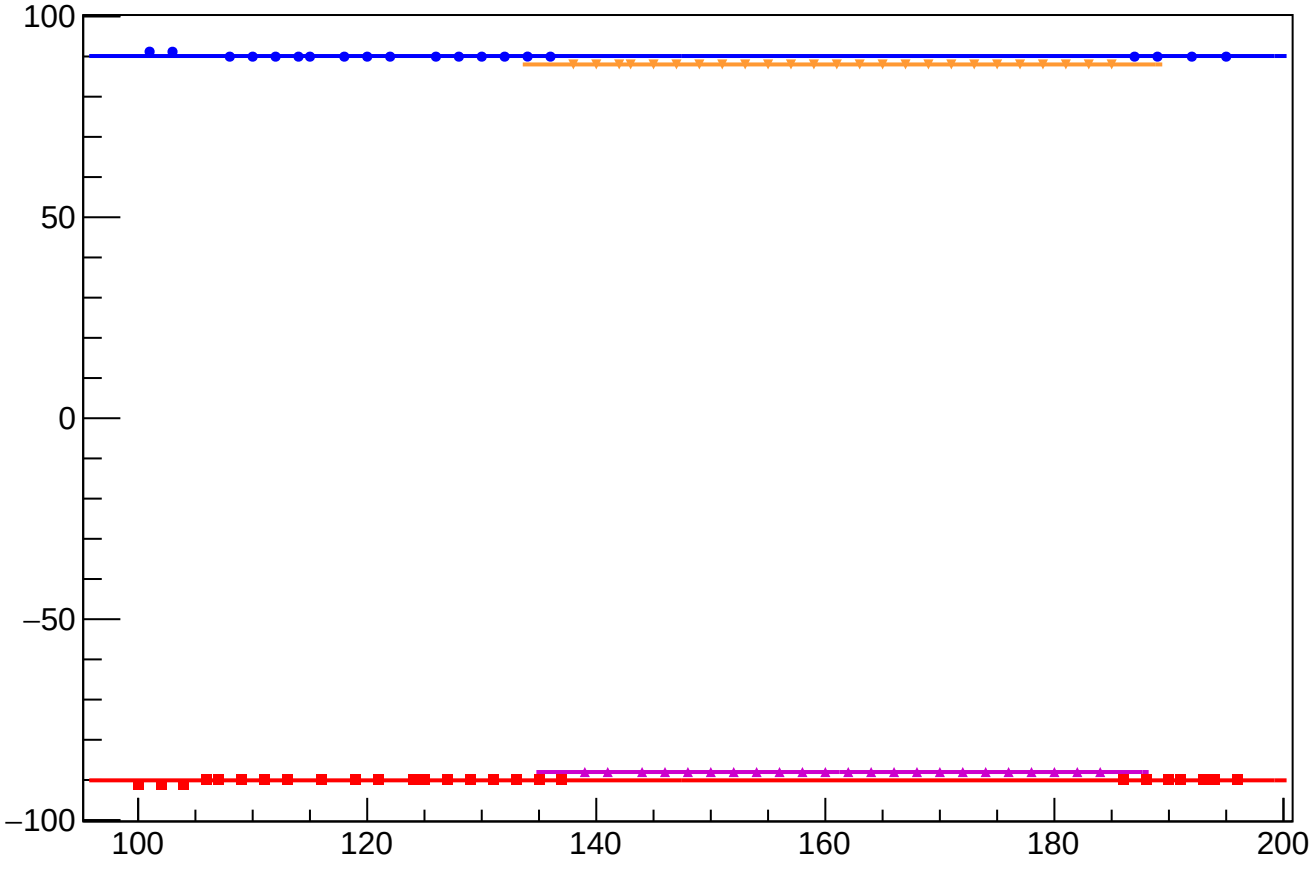
Right: -115.928+/-0.000 $\chi^2$/NDF: 475205981466153

In: -451.412+/-0.000 $\chi^2$/NDF:5713063199563109

Out: 377.226+/-0.000 $\chi^2$/NDF:6472296978365535

All: -15.109+/-0.000 $\chi^2$/NDF: 132370704312

# Phi_FG_mean vs Slug, Sign Corrected




Right In: 90.117+/-0.000 $\chi^2$/NDF: 168830165755806661830633785917440.0/19

Left Out: 88.021+/-0.000 $\chi^2$/NDF:5113333.3/24

Right Out: -90.091+/-0.000 $\chi^2$/NDF: 17732558356616707279633339593523 2.0/25

Left In: -88.021+/-0.000 $\chi^2$/NDF:7159272.4/22

Left: 2.512+/-0.000 $\chi^2$/NDF: 303769885681723848

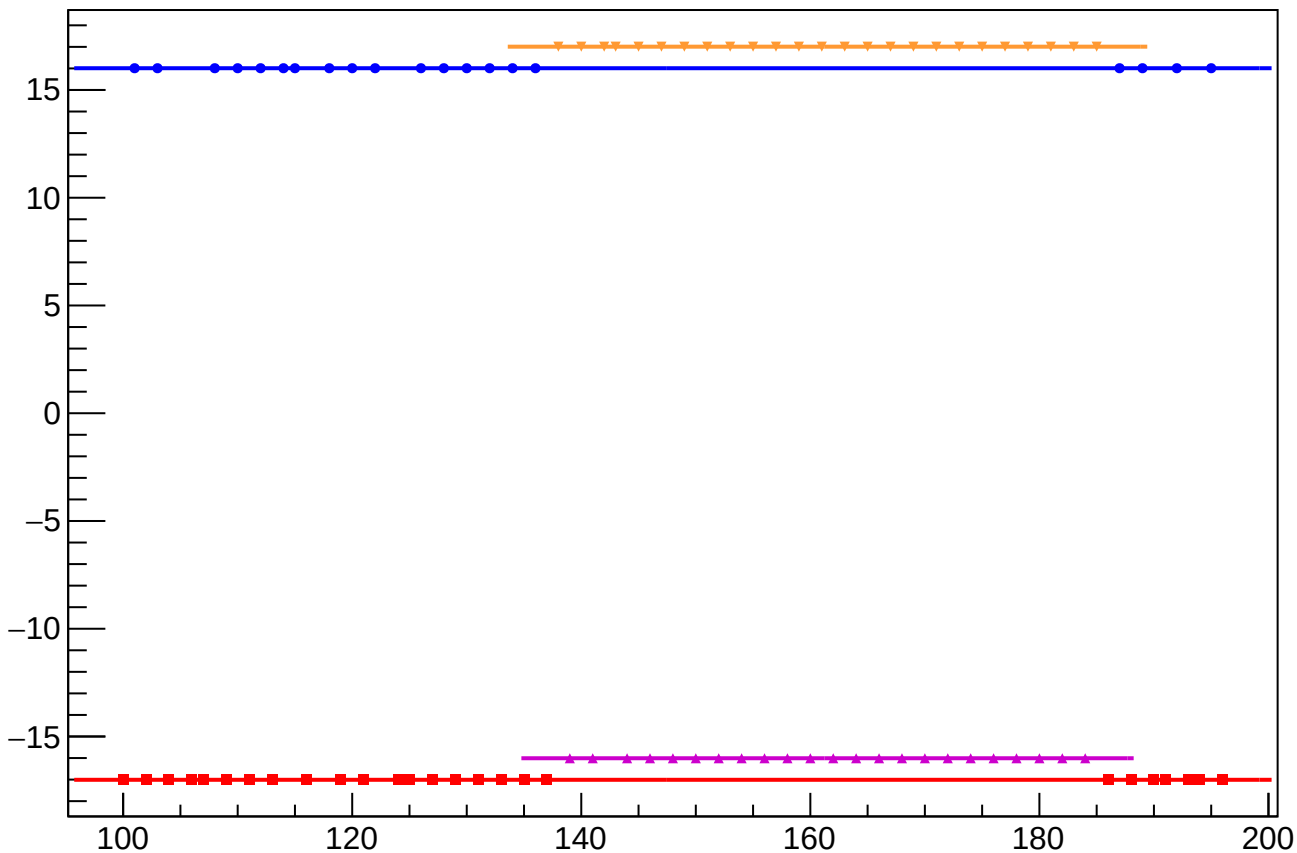
Right: -8.673+/-0.000 $\chi^2$/NDF: 1785639567565698

In: -26.600+/-0.000 $\chi^2$/NDF:20854285262909918

Out: 21.016+/-0.000 $\chi^2$/NDF:2408375899341373

All: -1.529+/-0.000 $\chi^2$/NDF: 4841075934715

# IGL1I00DI24_24M_mean vs Slug, Sign Corrected




Right In: 16.009+/-0.000 $\chi^2$/NDF: 269348.7/19

Left Out: 17.009+/-0.000 $\chi^2$/NDF:279903456758836896737525760.0/24

Right Out: -17.009+/-0.000 $\chi^2$/NDF: 16952030517492332812566528.0/25

Left In: -16.009+/-0.000 $\chi^2$/NDF:12468791216706352368844 8.0/22

Left: 0.967+/-0.000 $\chi^2$/NDF: 991588108006867686

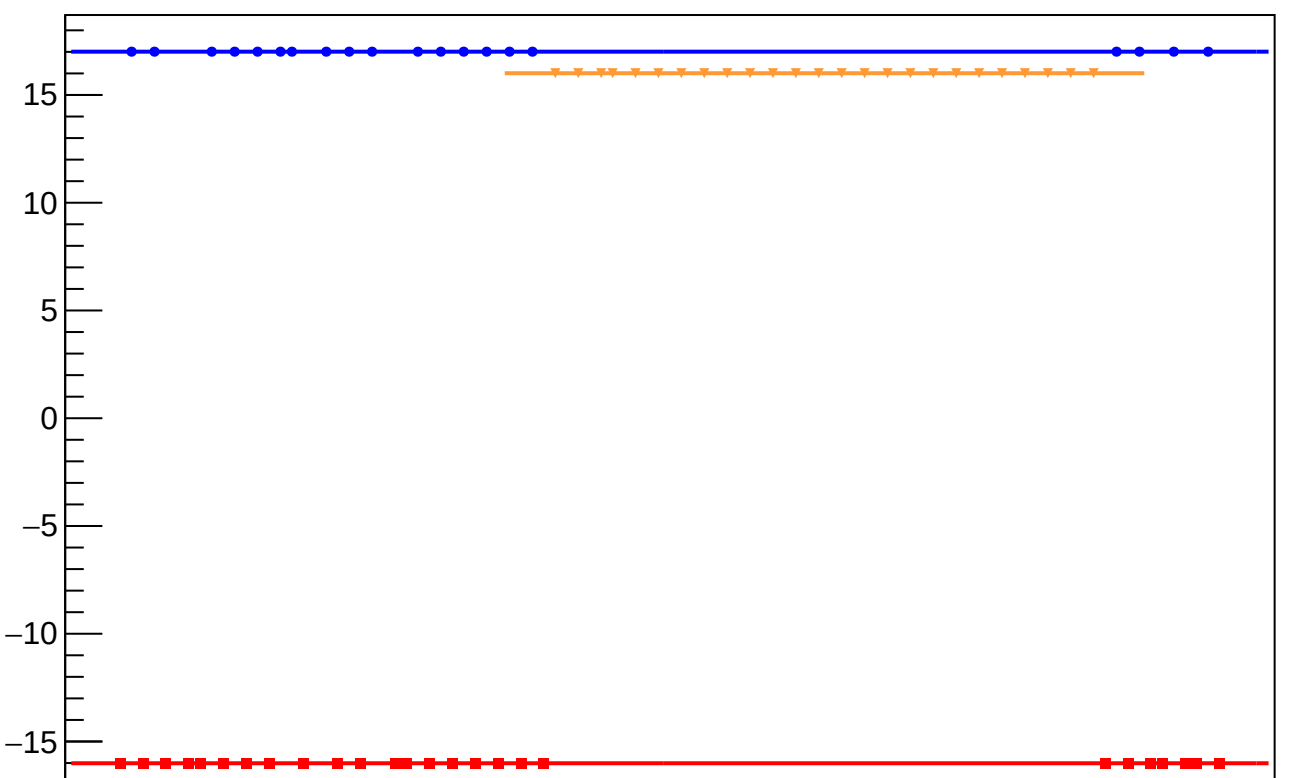
Right: -1.931+/-0.000 $\chi^2$/NDF: 5710461148293034

In: -4.716+/-0.000 $\chi^2$/NDF:639696439741139996

Out: 4.085+/-0.000 $\chi^2$/NDF:823071973011712457

All: -0.097+/-0.000 $\chi^2$/NDF: 1573857477874

# IGL1I00OD16_16_mean vs Slug, Sign Corrected




Right In: 17.009+/-0.000 $\chi^2$/NDF: 203715.4/19

Left Out: 16.009+/-0.000 $\chi^2$/NDF:2818892758481805649117184.0/24

Right Out: -16.009+/-0.000 $\chi^2$/NDF: 292509.6/25

Left In: -17.009+/-0.000 $\chi^2$/NDF:11100710442088156626944O.0/22

Left: 0.066+/-0.000 $\chi^2$/NDF: 104866556030492975

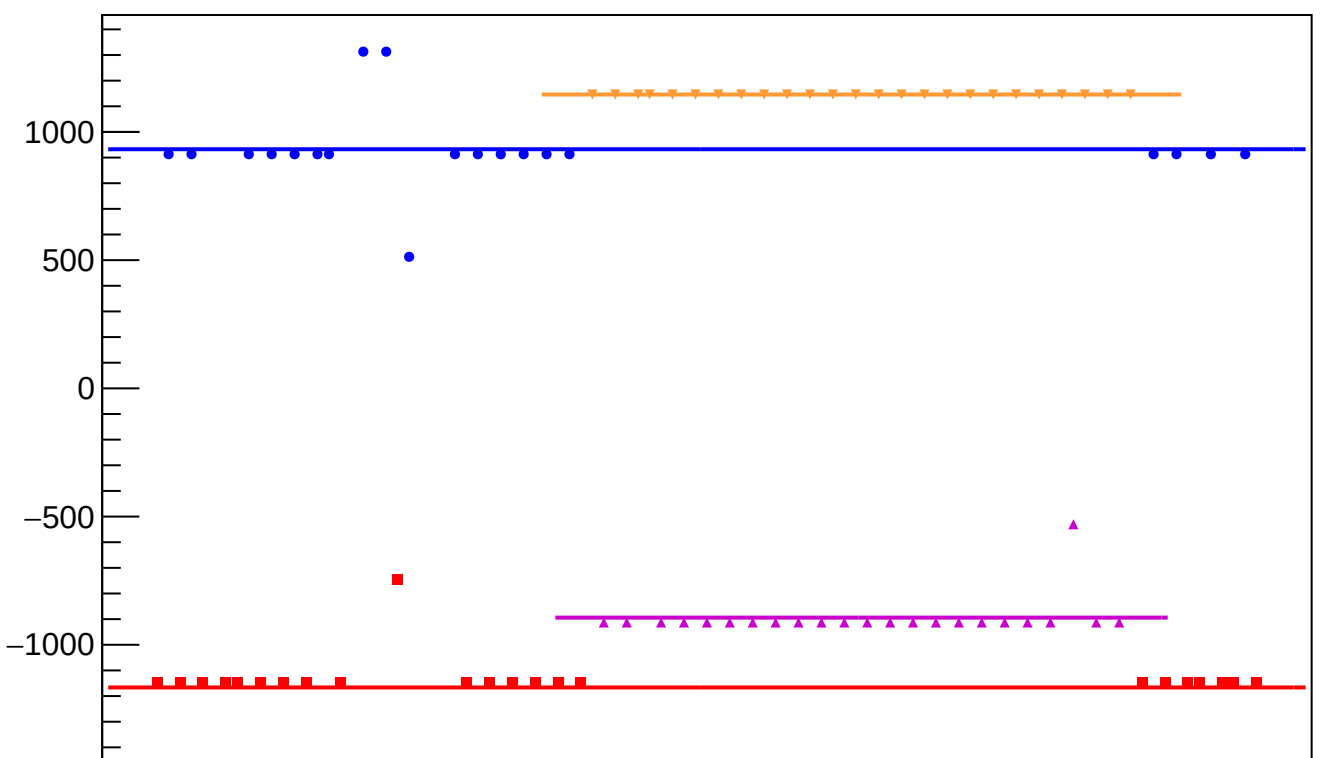
Right: -1.346+/-0.000 $\chi^2$/NDF: 58728794684372513

In: -5.357+/-0.000 $\chi^2$/NDF:737293549349387793

Out: 3.891+/-0.000 $\chi^2$/NDF:772913040554604101

All: -0.445+/-0.000 $\chi^2$/NDF: 1638730234519

# RTPAPOSUCNT_mean vs Slug, Sign Corrected




Left: 155.071+/-0.000 $\chi^2$/NDF: 4092819151469536

Right In: 932.536+/-0.000 $\chi^2$/NDF: 21218378446831661633689347263094063104.0/19

Right: -218.090+/-0.000 $\chi^2$/NDF: 24659824582046

Left Out: 1146.020+/-0.000 $\chi^2$/NDF:37030712979418714599064306974 72.0/24

In: -264.295+/-0.000 $\chi^2$/NDF:2227067657644496

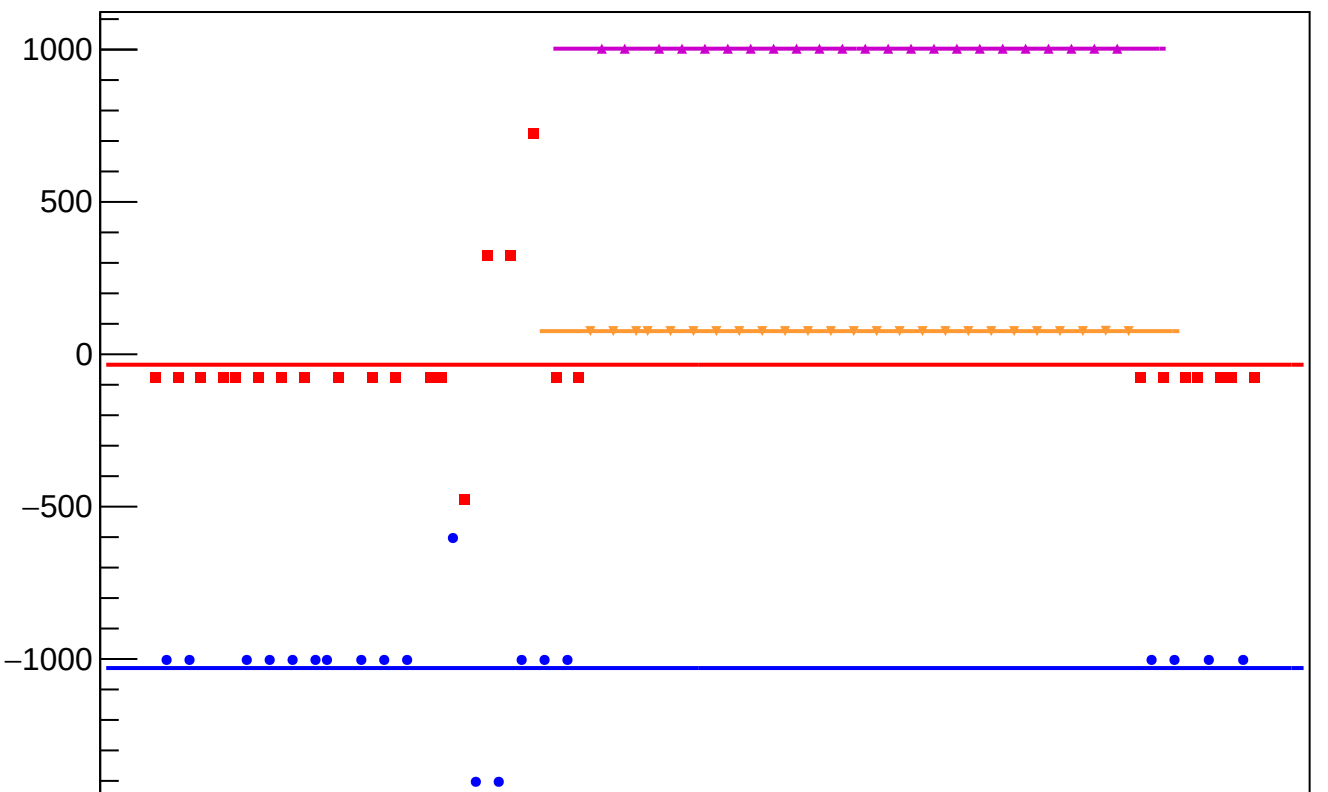
Right Out: -1166.388+/-0.000 $\chi^2$/NDF: 22440951848937467996506755894509305856.0/25

Out: 276.097+/-0.000 $\chi^2$/NDF:4081883930919408

Left In: -894.107+/-0.000 $\chi^2$/NDF:13107238299211712783896183802964213760.0/22

All: 20.238+/-0.000 $\chi^2$/NDF: 675623708756

# RTPAPOSVCNT_mean vs Slug, Sign Corrected




Left: 526.293+/-0.000 $\chi^2$/NDF: 8422008663429018

Right In: -1029.709+/-0.000 $\chi^2$/NDF: 2312355499962134545296652773235884032 0.0/19

Right: -484.010+/-0.000 $\chi^2$/NDF: 615283822175233

Left Out: 76.053+/-0.000 $\chi^2$/NDF:8137119629458086651457121026048 0.0/24

In: 302.131+/-0.000 $\chi^2$/NDF:27384769485607617

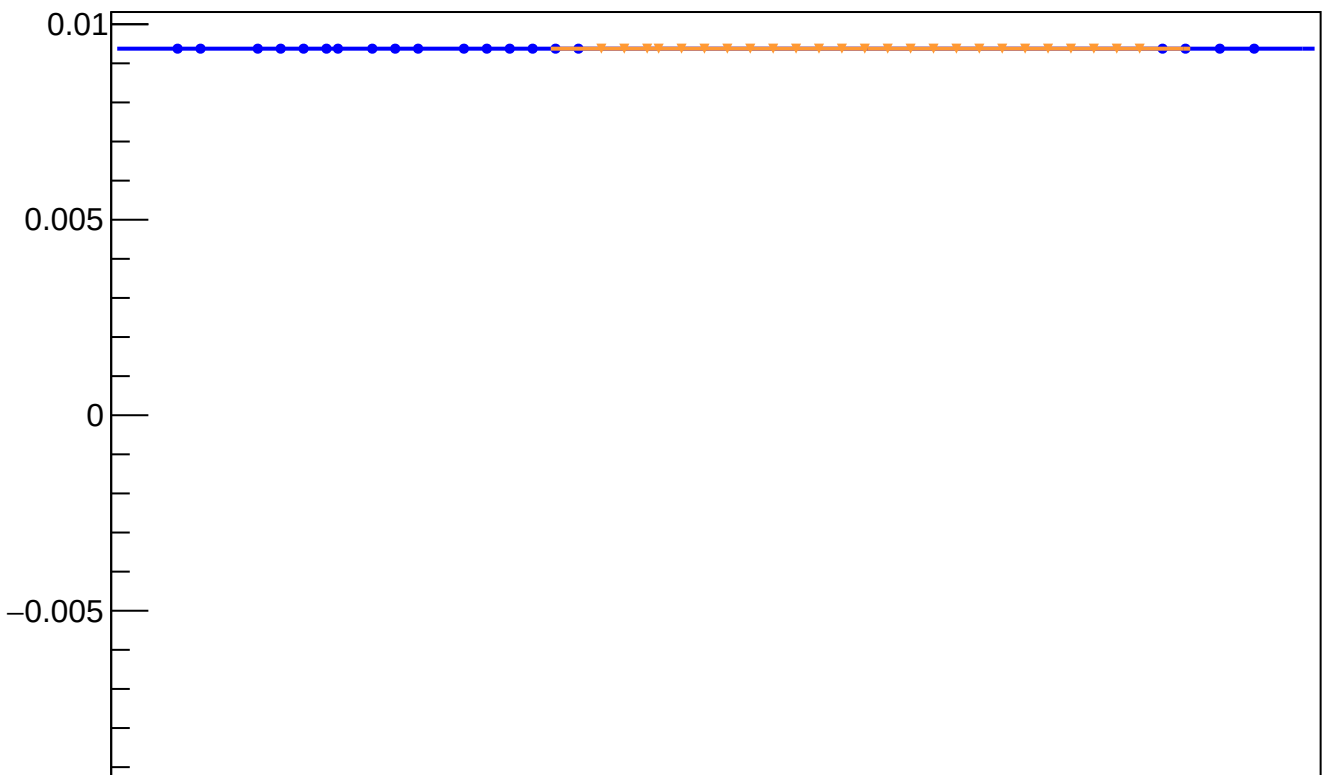
Right Out: -34.268+/-0.000 $\chi^2$/NDF: 473192341344822785448838232383778979840.0/25

Out: 34.550+/-0.000 $\chi^2$/NDF:56558901753550141

Left In: 1002.990+/-0.000 $\chi^2$/NDF:29519559033483147530972692480.0/22

All: 161.242+/-0.000 $\chi^2$/NDF: 290470330305

# RTPPITA1CNT_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

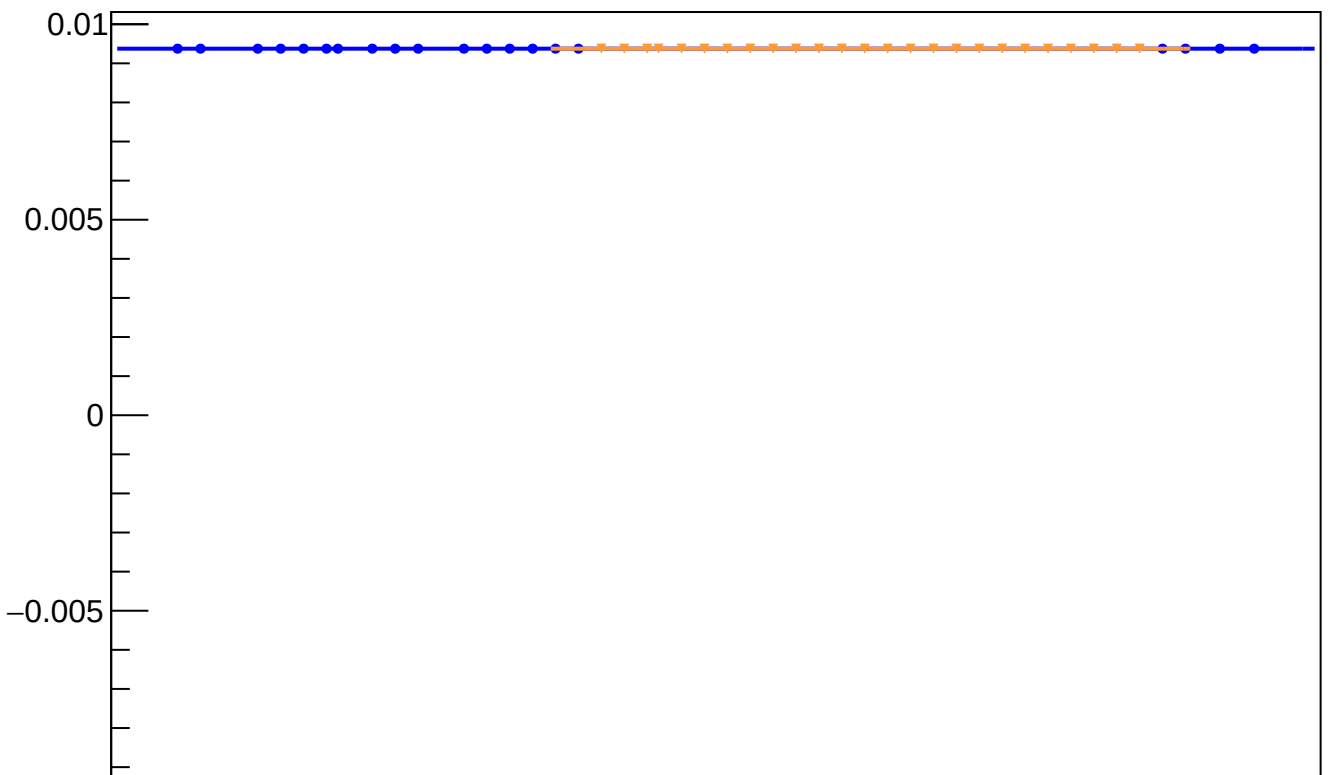
Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861

# RTPPITA2CNT_mean vs Slug, Sign Corrected




Right In: 0.009+/-0.000 $\chi^2$/NDF: 0.1/19

Left Out: 0.009+/-0.000 $\chi^2$/NDF:0.1/24

Right Out: -0.009+/-0.000 $\chi^2$/NDF: 0.1/25

Left In: -0.009+/-0.000 $\chi^2$/NDF:0.1/22

Left: 0.000+/-0.000 $\chi^2$/NDF: 344601849197246623

Right: -0.001+/-0.000 $\chi^2$/NDF: 19330410684121590

In: -0.003+/-0.000 $\chi^2$/NDF:231037593459951296

Out: 0.002+/-0.000 $\chi^2$/NDF:266894730486861765

All: -0.000+/-0.000 $\chi^2$/NDF: 5398511695861