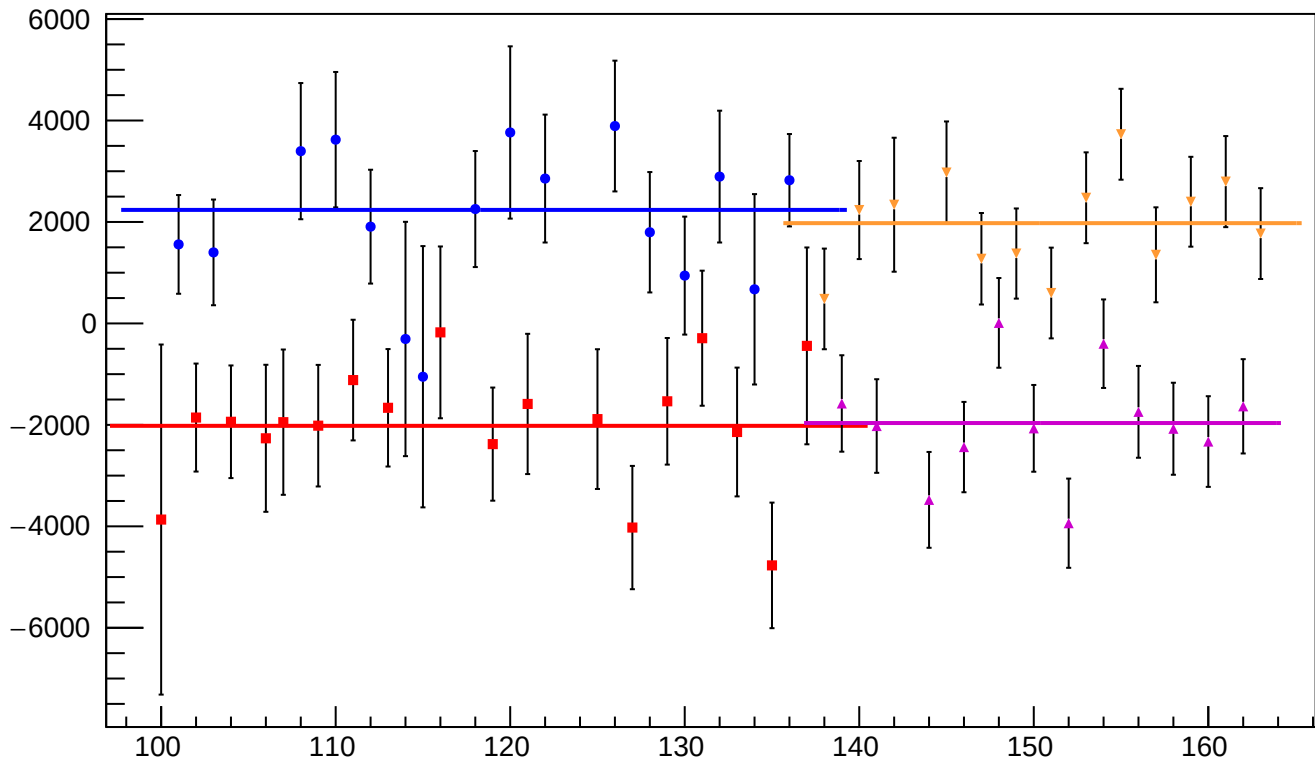


# dit\_asym\_us\_avg\_mean vs Slug



Right In: 2237.929+/-314.642

$\chi^2/\text{NDF}$ : 11.3/15

Left Out: 1976.773+/-260.038

$\chi^2/\text{NDF}$ : 12.5/12

Right Out: -2018.625+/-308.362

$\chi^2/\text{NDF}$ : 12.6/17

Left In: -1963.350+/-260.269

$\chi^2/\text{NDF}$ : 16.6/11

+ sign 2082.759+/-200.443

$\chi^2/\text{NDF}$ : 24.3/28

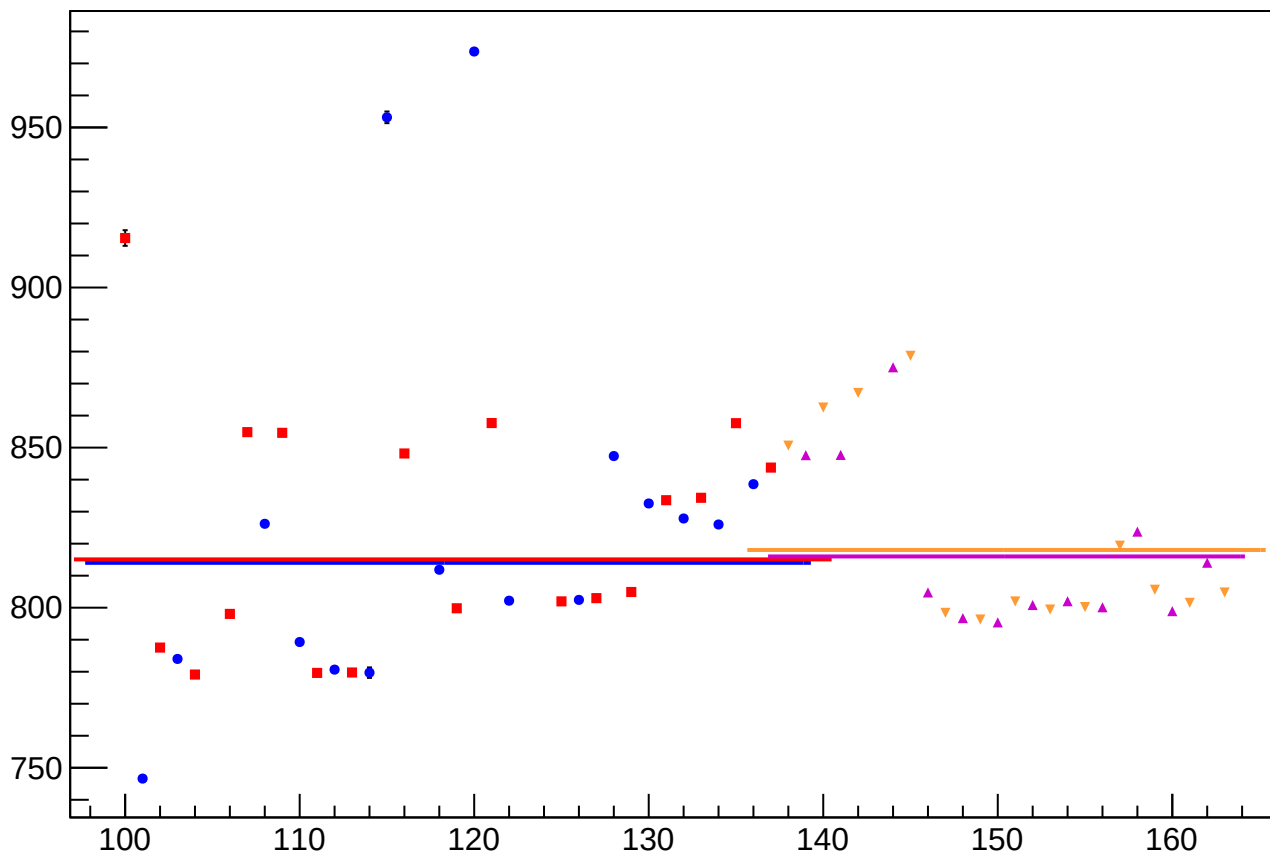
All: 32.416+/-141.183

$\chi^2/\text{NDF}$ : 261.1/58

- sign -1986.346+/-198.893

$\chi^2/\text{NDF}$ : 29.2/29

dit\_asym\_us\_avg\_rms vs Slug



Right In: 814.021 $\pm$ 0.222  $\chi^2$ /NDF: 42041.6/15

Left Out: 818.031 $\pm$ 0.184  $\chi^2$ /NDF: 22359.1/12

Right Out: 815.084 $\pm$ 0.218  $\chi^2$ /NDF: 19959.3/17

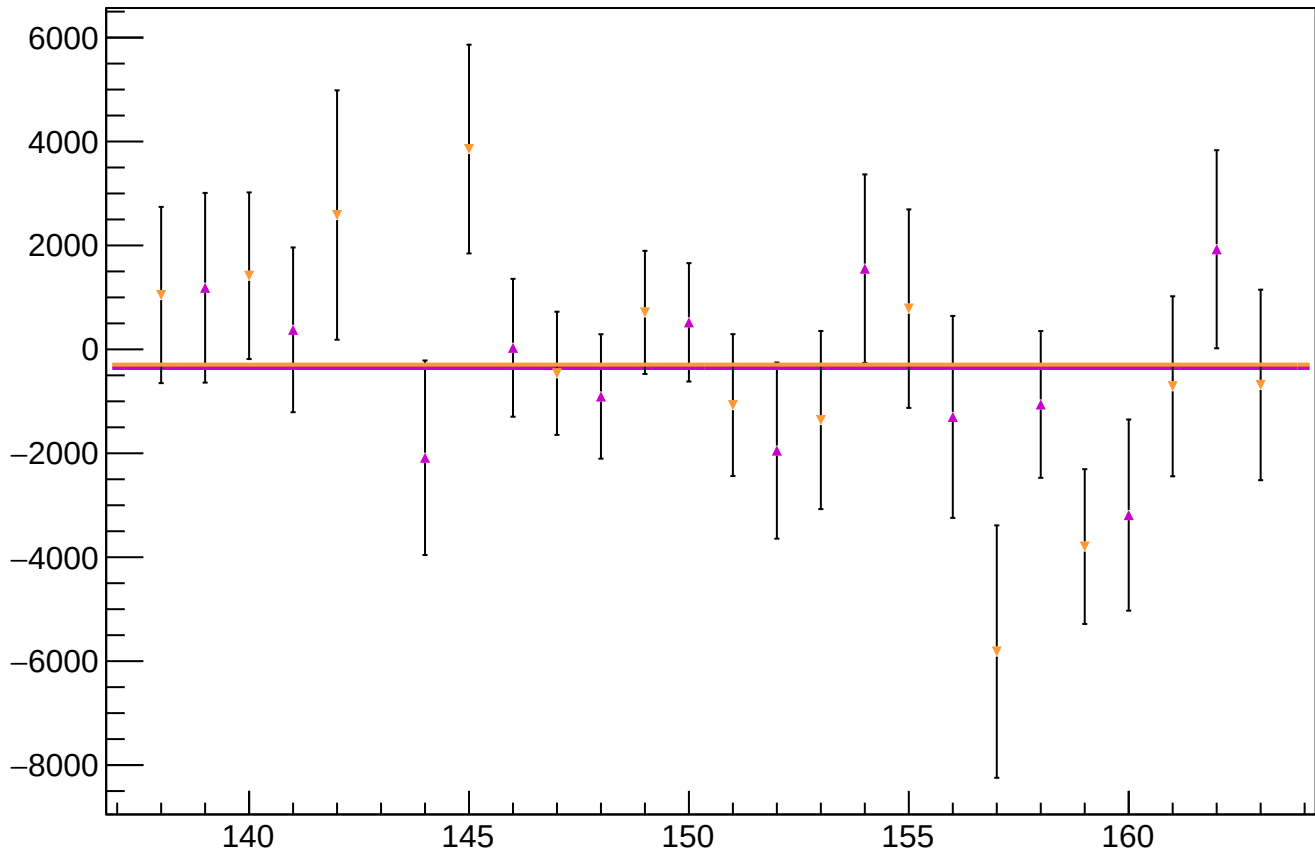
Left In: 816.003 $\pm$ 0.184  $\chi^2$ /NDF: 17442.6/11

+ sign 816.404 $\pm$ 0.142  $\chi^2$ /NDF: 64593.8/28

All: 816.009 $\pm$ 0.100  $\chi^2$ /NDF: 102021.4/58

- sign 815.620 $\pm$ 0.141  $\chi^2$ /NDF: 37412.3/29

# asym\_us\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -293.410+/-447.878  $\chi^2/\text{NDF}$ :20.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

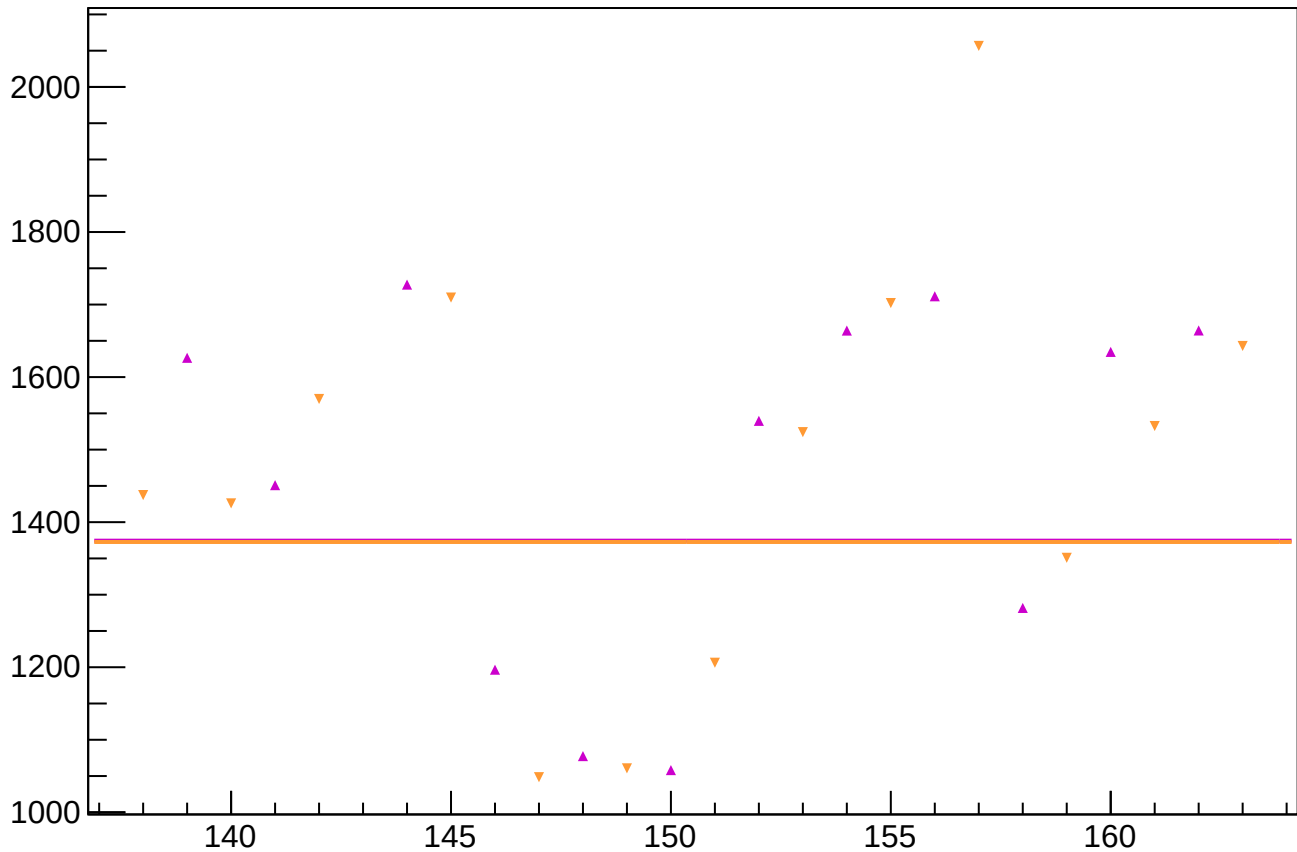
Left In: -358.749+/-446.840  $\chi^2/\text{NDF}$ :8.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -326.155+/-316.330  $\chi^2/\text{NDF}$ : 29.0/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1372.689+/-0.317  $\chi^2/\text{NDF}$ : 687716.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

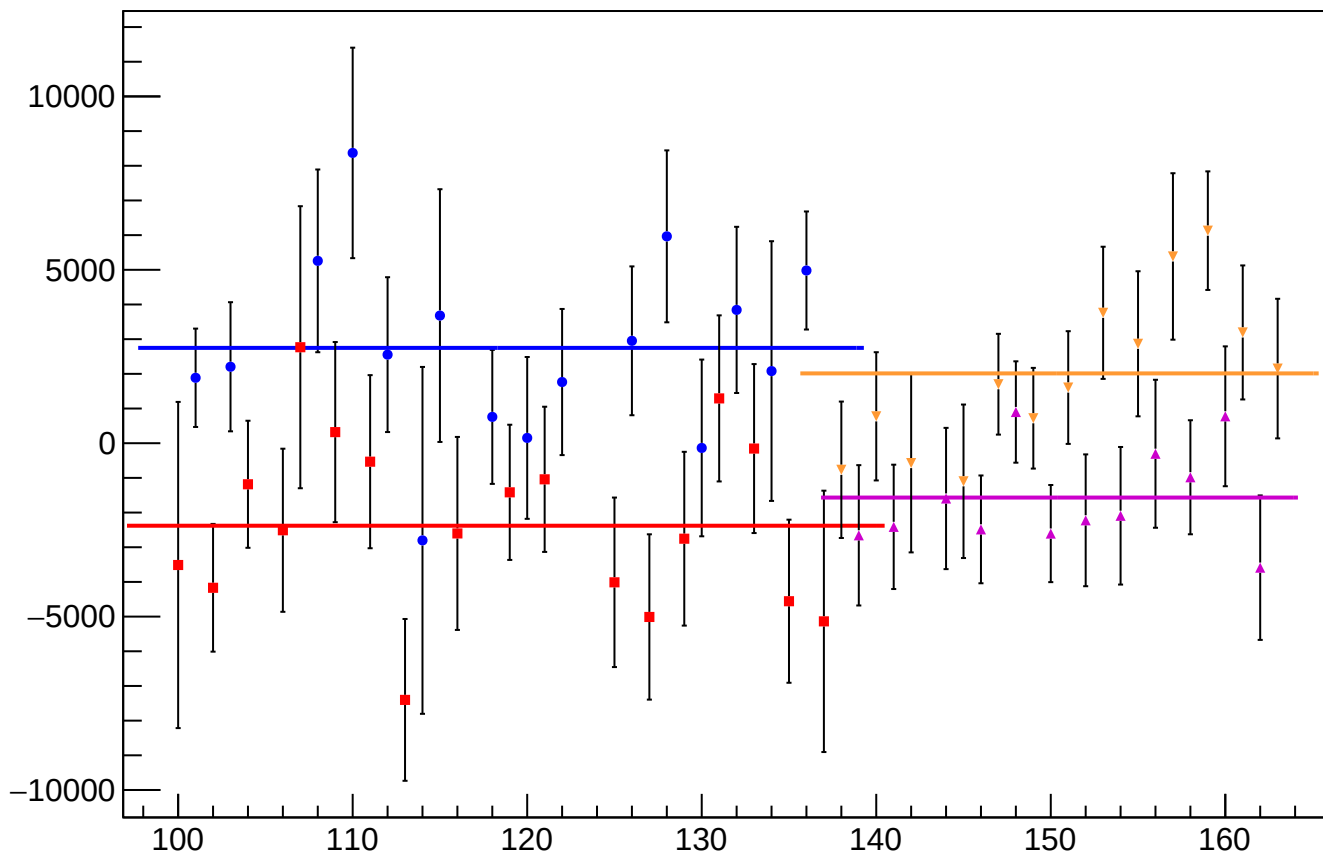
Left In: 1374.467+/-0.316  $\chi^2/\text{NDF}$ : 652118.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1373.580+/-0.224  $\chi^2/\text{NDF}$ : 1339851.0/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_avg\_mean vs Slug



Right In: 2748.777 $\pm$ 562.943  $\chi^2$ /NDF: 13.5/15

Left Out: 2012.919 $\pm$ 515.244  $\chi^2$ /NDF:15.5/12

Right Out: -2379.450 $\pm$ 568.967  $\chi^2$ /NDF: 16.2/17

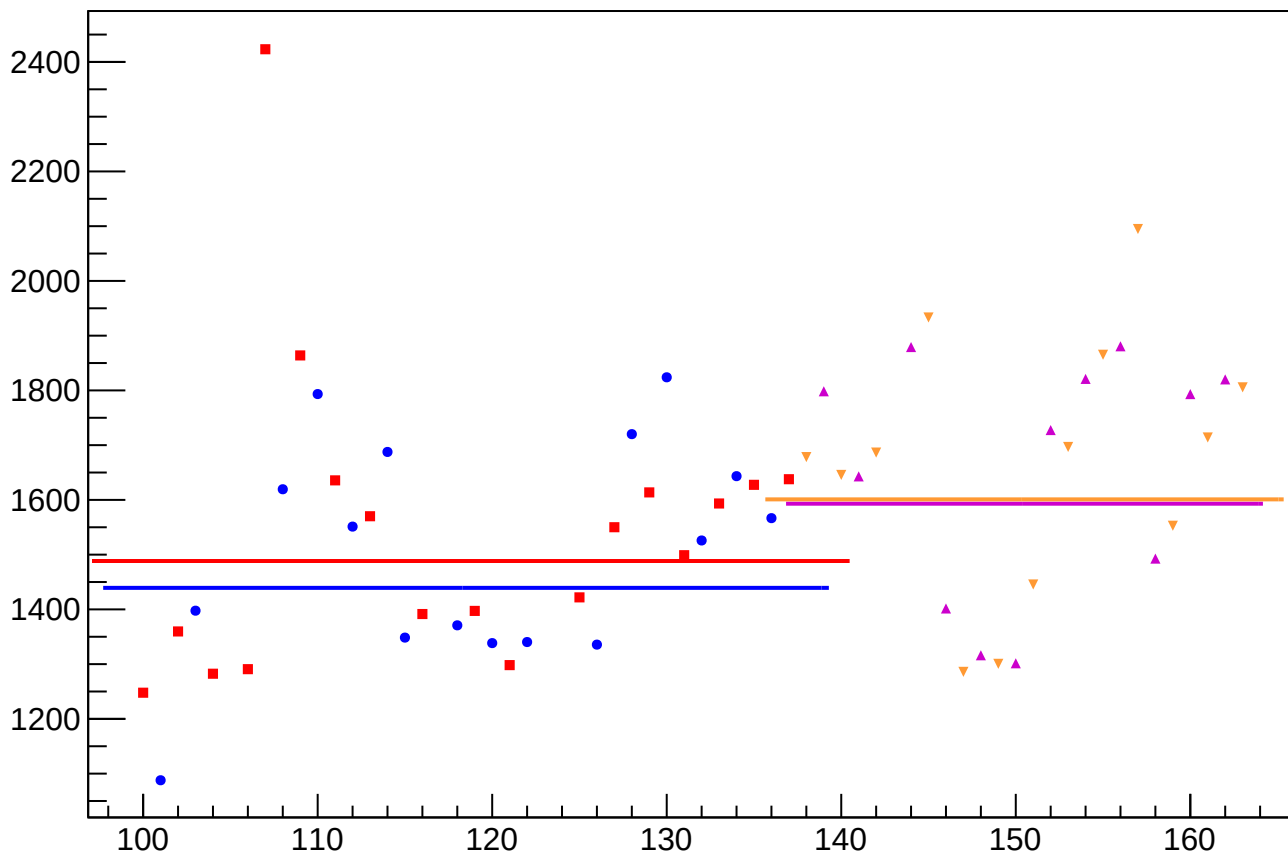
Left In: -1567.400 $\pm$ 513.996  $\chi^2$ /NDF:7.2/11

+ sign 2348.357 $\pm$ 380.079  $\chi^2$ /NDF: 30.0/28

All: 215.492 $\pm$ 269.225  $\chi^2$ /NDF: 117.7/58

- sign -1932.311 $\pm$ 381.407  $\chi^2$ /NDF: 24.6/29

# asym\_us\_avg\_rms vs Slug



Right In: 1439.332+/-0.398  $\chi^2/\text{NDF}$ : 277860.8/15

Left Out: 1600.959+/-0.364  $\chi^2/\text{NDF}$ : 400231.1/12

Right Out: 1488.384+/-0.402  $\chi^2/\text{NDF}$ : 256324.7/17

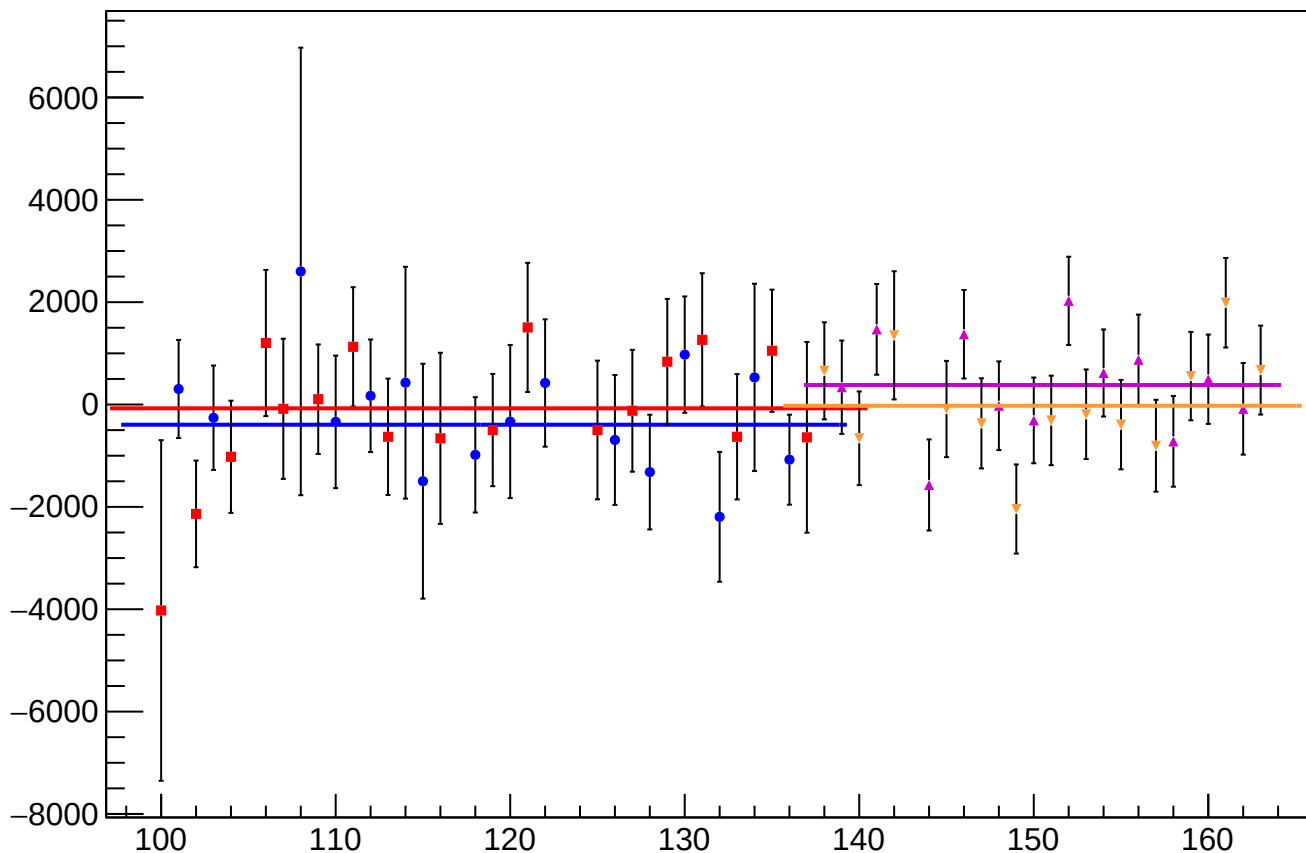
Left In: 1593.073+/-0.363  $\chi^2/\text{NDF}$ : 374035.8/11

+ sign 1527.282+/-0.269  $\chi^2/\text{NDF}$ : 767803.8/28

All: 1536.623+/-0.190  $\chi^2/\text{NDF}$ : 1437872.3/58

- sign 1546.029+/-0.270  $\chi^2/\text{NDF}$ : 667644.2/29

# dit\_asym\_us\_dd\_mean vs Slug



Right In:  $-394.364 \pm 313.174$   $\chi^2/\text{NDF}$ : 7.4/15

Left Out:  $-24.679 \pm 251.454$   $\chi^2/\text{NDF}$ : 15.2/12

Right Out:  $-74.289 \pm 298.398$   $\chi^2/\text{NDF}$ : 12.9/17

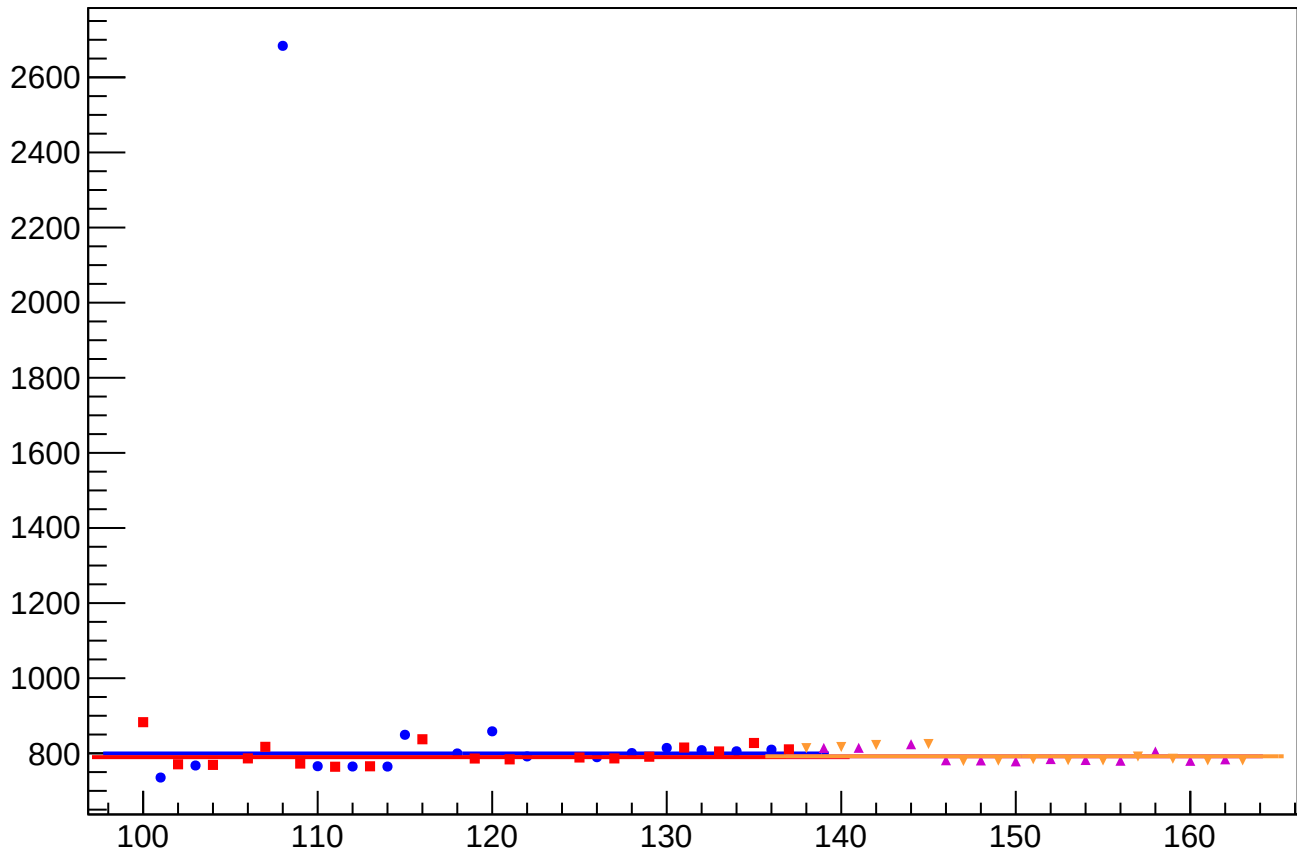
Left In:  $381.580 \pm 252.552$   $\chi^2/\text{NDF}$ : 14.4/11

+ sign  $-169.588 \pm 196.073$   $\chi^2/\text{NDF}$ : 23.5/28

All:  $13.926 \pm 137.464$   $\chi^2/\text{NDF}$ : 53.9/58

- sign  $191.319 \pm 192.775$   $\chi^2/\text{NDF}$ : 28.7/29

# dit\_asym\_us\_dd\_rms vs Slug



Right In: 799.537 $\pm$ 0.221  $\chi^2$ /NDF: 391185.9/15

Left Out: 792.112 $\pm$ 0.178  $\chi^2$ /NDF: 8386.2/12

Right Out: 789.794 $\pm$ 0.211  $\chi^2$ /NDF: 11174.9/17

Left In: 792.103 $\pm$ 0.179  $\chi^2$ /NDF: 7966.8/11

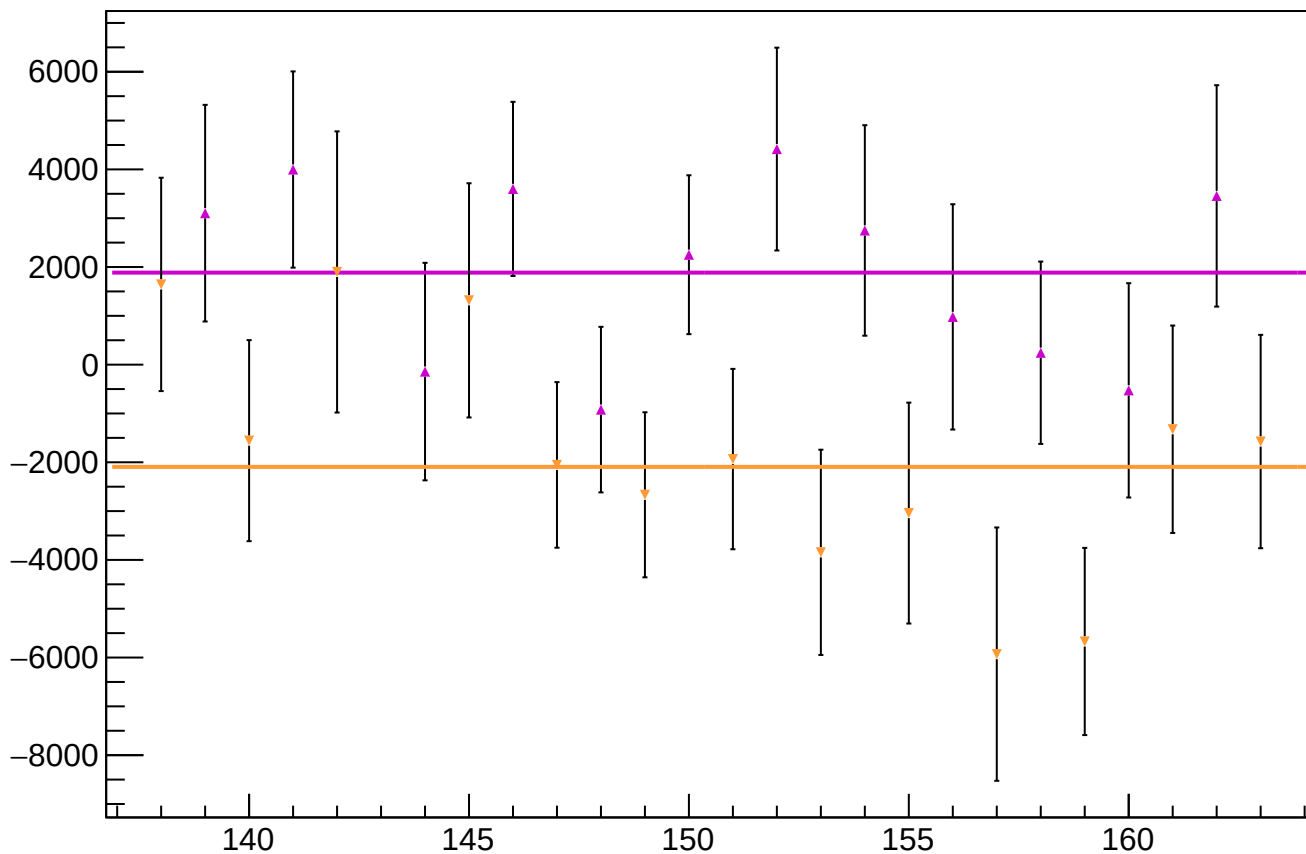
+ sign 795.023 $\pm$ 0.139  $\chi^2$ /NDF: 400255.6/28

All: 793.048 $\pm$ 0.097  $\chi^2$ /NDF: 419866.0/58

- sign 791.140 $\pm$ 0.136  $\chi^2$ /NDF: 19211.6/29



# asym\_us\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2094.093+/-577.060  $\chi^2/\text{NDF}$ :13.8/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

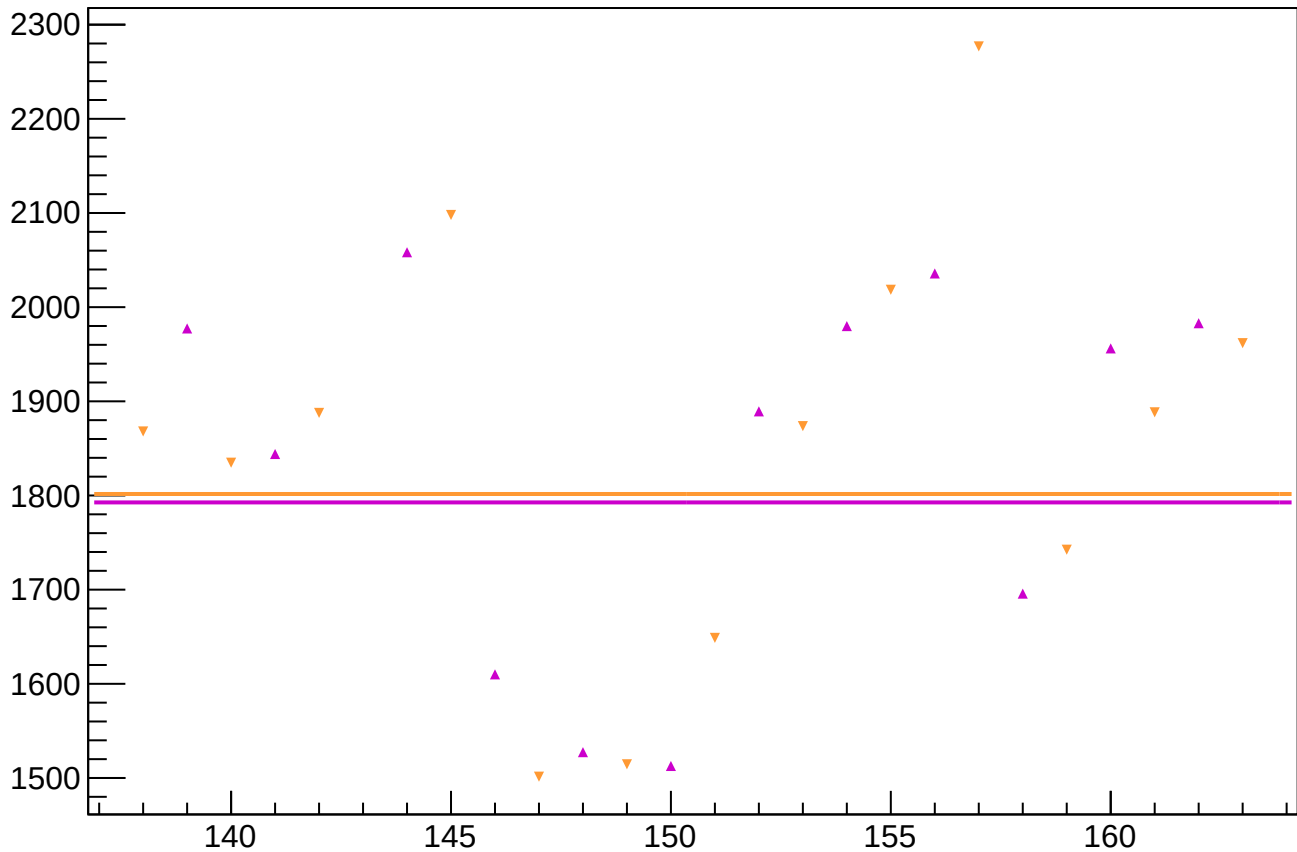
Left In: 1885.359+/-575.883  $\chi^2/\text{NDF}$ :10.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -100.306+/-407.626  $\chi^2/\text{NDF}$ : 47.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1801.591+/-0.408  $\chi^2/\text{NDF}$ : 272477.1/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

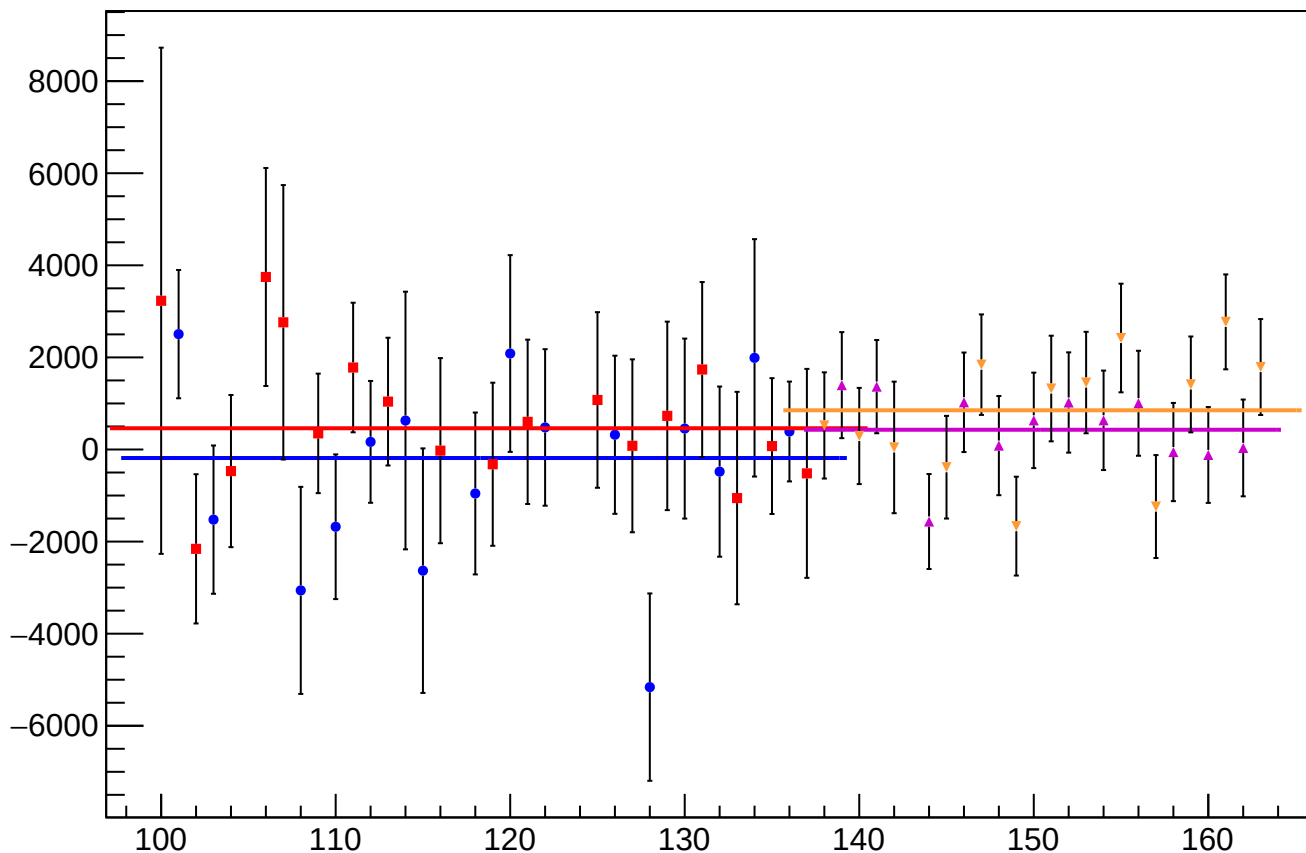
Left In: 1792.644+/-0.407  $\chi^2/\text{NDF}$ : 244866.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1797.108+/-0.288  $\chi^2/\text{NDF}$ : 517584.2/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_us\_dd\_mean vs Slug



Right In:  $-185.054 \pm 431.495$   $\chi^2/\text{NDF}: 16.6/15$

Left Out:  $851.603 \pm 307.744$   $\chi^2/\text{NDF}: 18.5/12$

Right Out:  $461.253 \pm 426.921$   $\chi^2/\text{NDF}: 8.3/17$

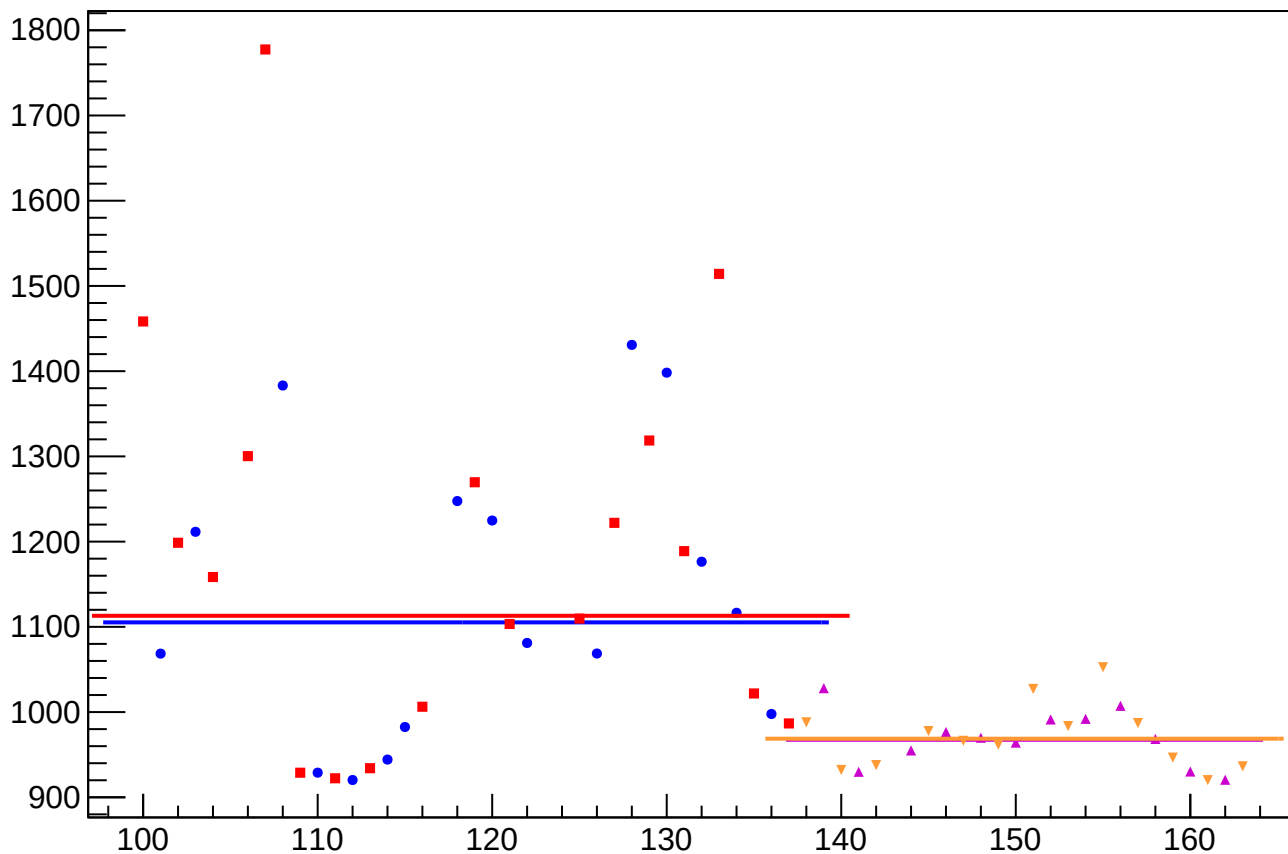
Left In:  $428.958 \pm 308.635$   $\chi^2/\text{NDF}: 7.0/11$

+ sign  $502.083 \pm 250.550$   $\chi^2/\text{NDF}: 39.0/28$

All:  $471.010 \pm 177.013$   $\chi^2/\text{NDF}: 54.3/58$

- sign  $440.043 \pm 250.120$   $\chi^2/\text{NDF}: 15.3/29$

# asym\_us\_dd\_rms vs Slug



Right In: 1105.236+/-0.305  $\chi^2/\text{NDF}$ : 255366.2/15

Left Out: 968.772+/-0.218  $\chi^2/\text{NDF}$ : 27680.1/12

Right Out: 1112.974+/-0.302  $\chi^2/\text{NDF}$ : 362995.4/17

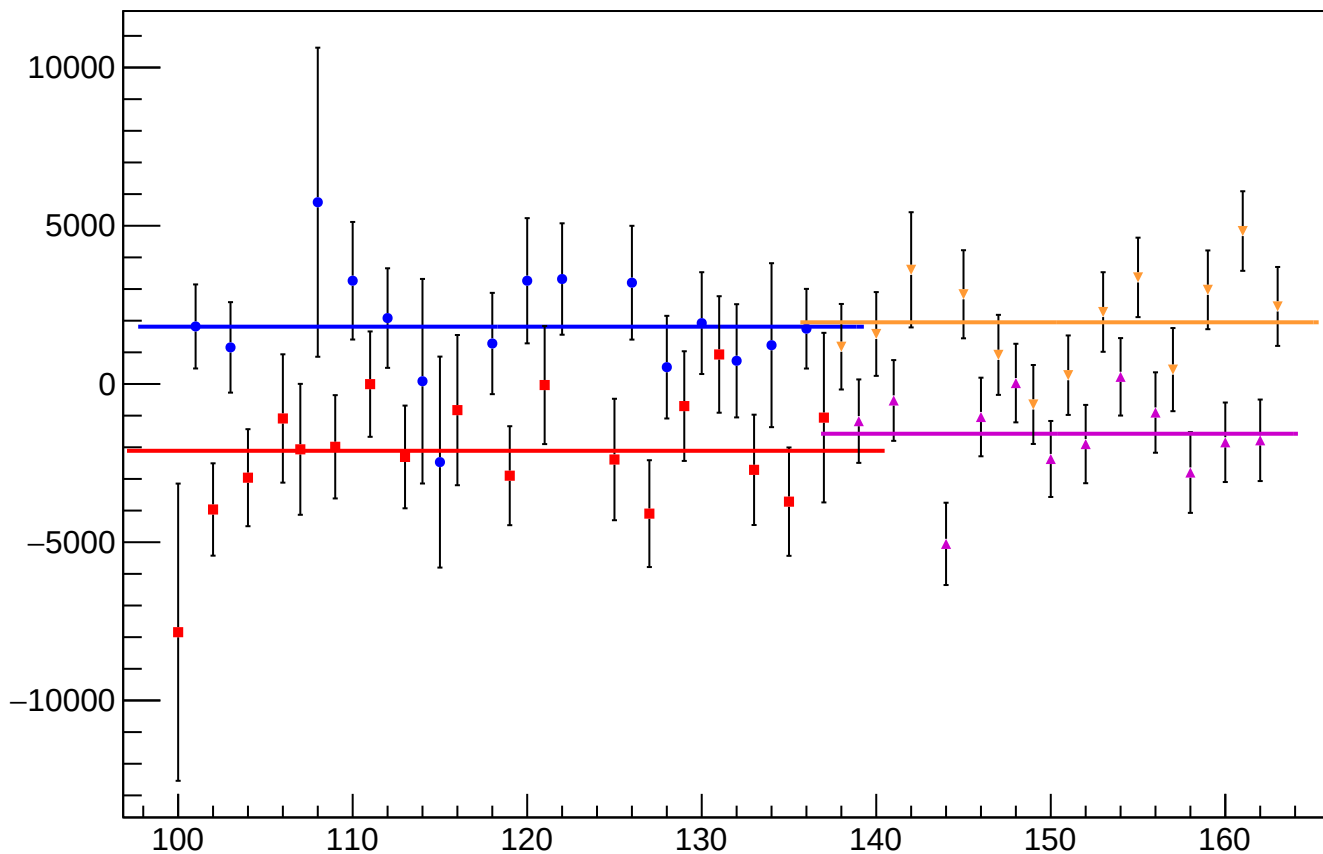
Left In: 967.480+/-0.218  $\chi^2/\text{NDF}$ : 19723.2/11

+ sign 1014.782+/-0.177  $\chi^2/\text{NDF}$ : 415640.1/28

All: 1016.103+/-0.125  $\chi^2/\text{NDF}$ : 951025.2/58

- sign 1017.420+/-0.177  $\chi^2/\text{NDF}$ : 535274.1/29

# dit\_asym\_usl\_mean vs Slug



Right In: 1811.054+/-442.142  $\chi^2/\text{NDF}$ : 6.5/15

Left Out: 1949.496+/-362.600  $\chi^2/\text{NDF}$ : 17.1/12

Right Out: -2111.004+/-427.676  $\chi^2/\text{NDF}$ : 13.0/17

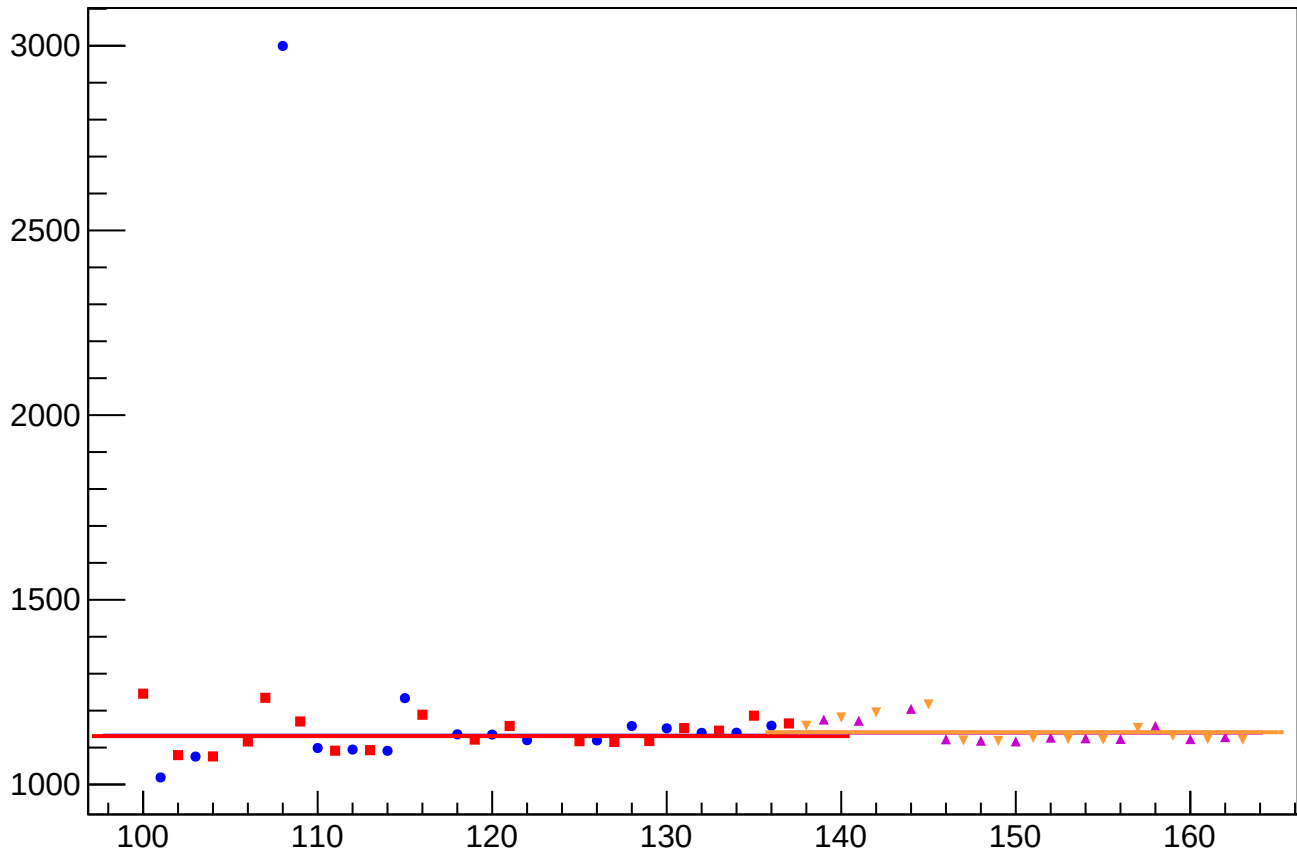
Left In: -1572.250+/-363.634  $\chi^2/\text{NDF}$ : 13.7/11

+ sign 1893.826+/-280.373  $\chi^2/\text{NDF}$ : 23.7/28

All: 25.630+/-197.062  $\chi^2/\text{NDF}$ : 139.1/58

- sign -1798.308+/-277.032  $\chi^2/\text{NDF}$ : 27.7/29

# dit\_asym\_usl\_rms vs Slug



Right In: 1132.074 $\pm$ 0.313  $\chi^2$ /NDF: 316026.3/15

Left Out: 1141.427 $\pm$ 0.256  $\chi^2$ /NDF:13578.3/12

Right Out: 1131.016 $\pm$ 0.302  $\chi^2$ /NDF: 19719.1/17

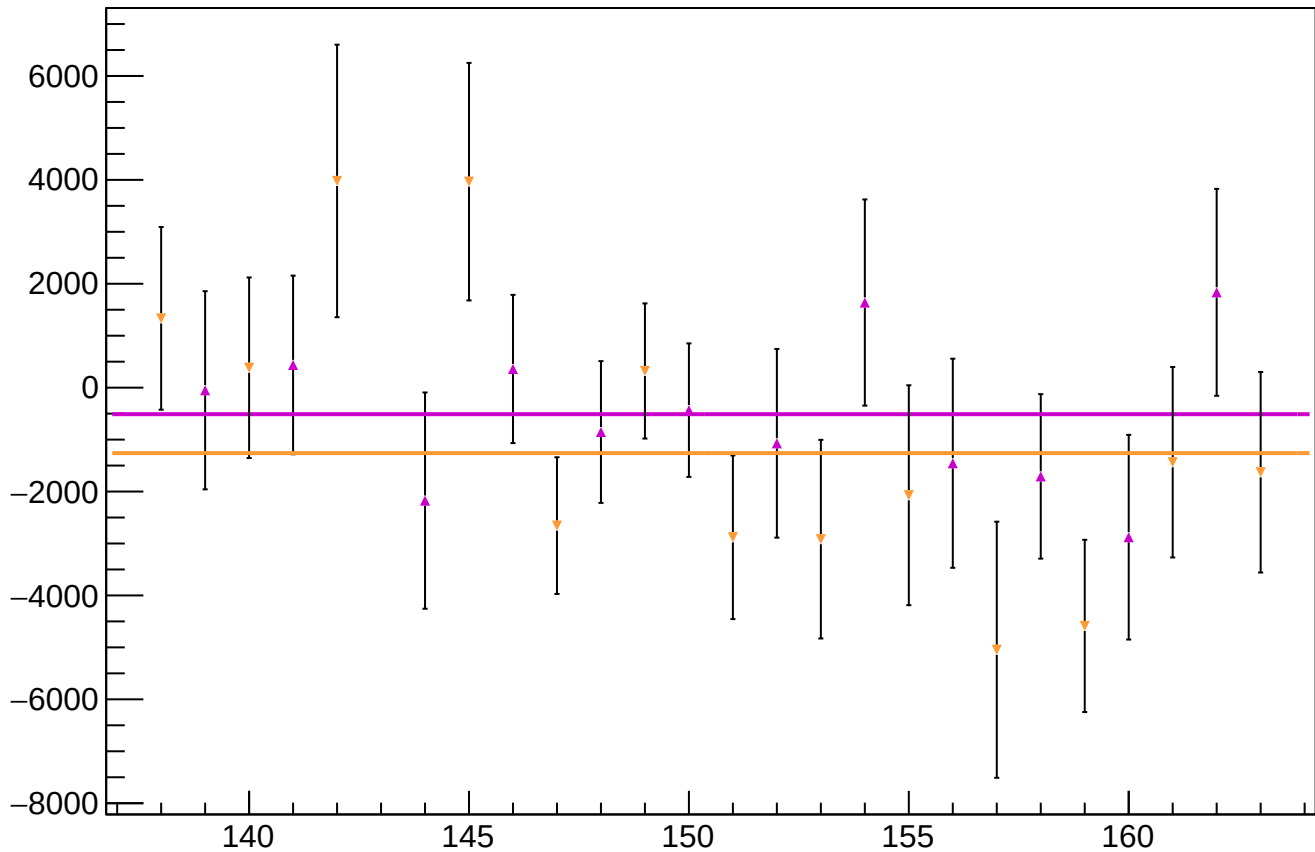
Left In: 1140.305 $\pm$ 0.257  $\chi^2$ /NDF:11320.7/11

+ sign 1137.666 $\pm$ 0.198  $\chi^2$ /NDF: 330139.6/28

All: 1137.029 $\pm$ 0.139  $\chi^2$ /NDF: 361747.3/58

- sign 1136.407 $\pm$ 0.196  $\chi^2$ /NDF: 31587.4/29

# asym\_usl\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1259.973+/-490.699  $\chi^2/\text{NDF}$ :23.3/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

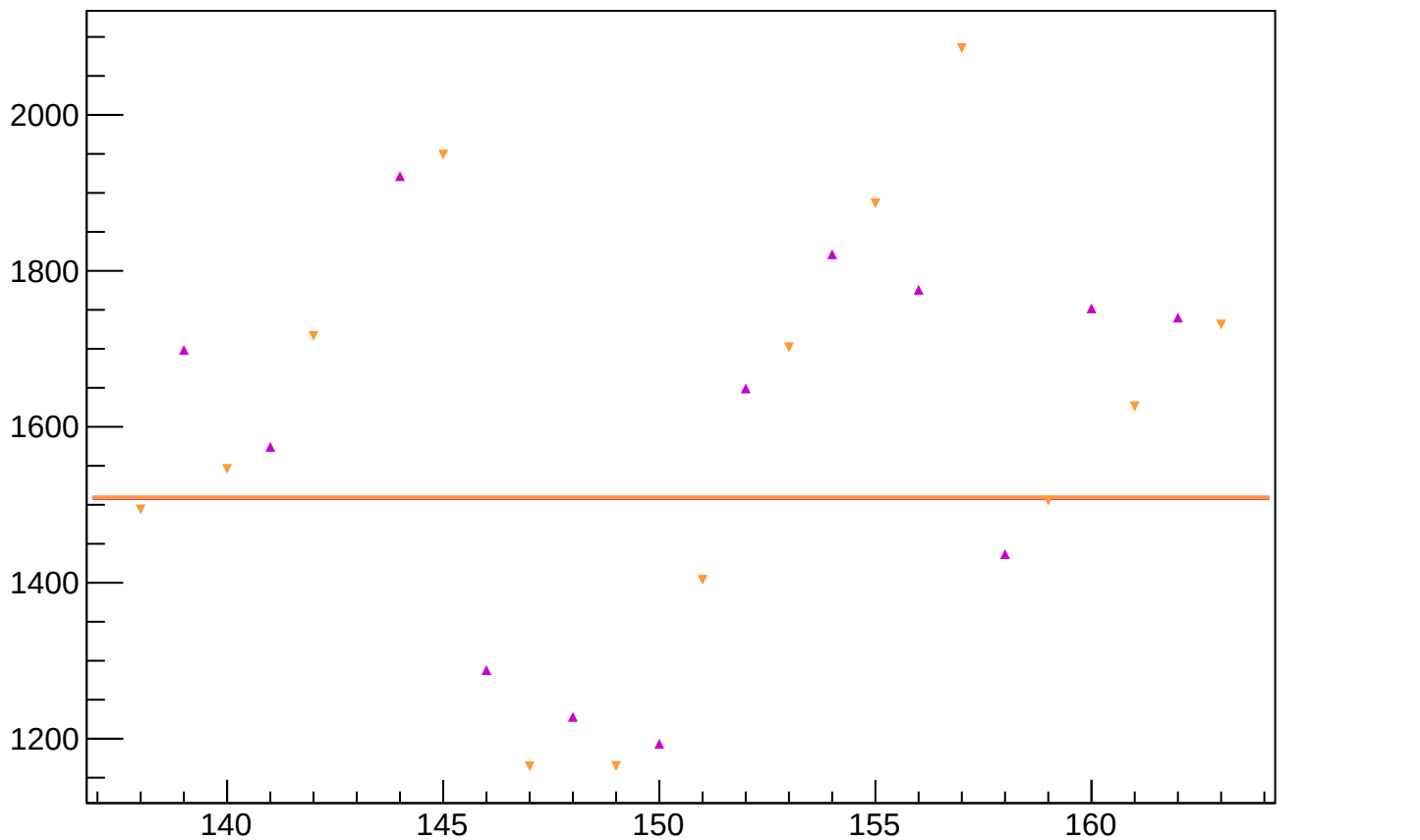
Left In: -510.874+/-488.484  $\chi^2/\text{NDF}$ :6.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -883.729+/-346.191  $\chi^2/\text{NDF}$ : 30.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usl\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1509.508+/-0.347  $\chi^2/\text{NDF}$ : 601536.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1508.735+/-0.345  $\chi^2/\text{NDF}$ : 512524.6/11

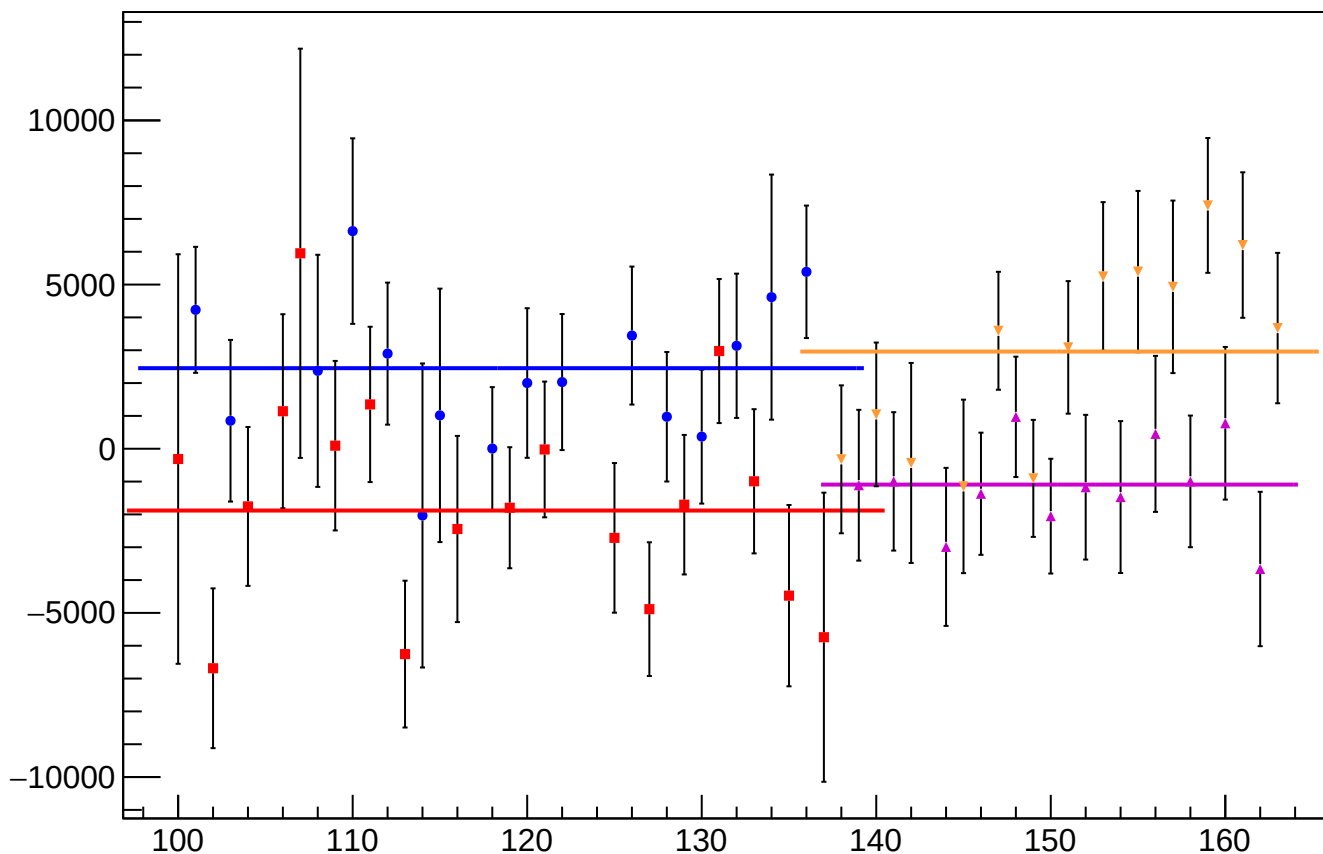
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1509.120+/-0.245  $\chi^2/\text{NDF}$ : 1114063.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_usl\_mean vs Slug



Right In:  $2453.670 \pm 584.307$   $\chi^2/\text{NDF}$ : 10.8/15

Left Out:  $2959.407 \pm 612.619$   $\chi^2/\text{NDF}$ : 20.9/12

Right Out:  $-1882.755 \pm 583.188$   $\chi^2/\text{NDF}$ : 22.8/17

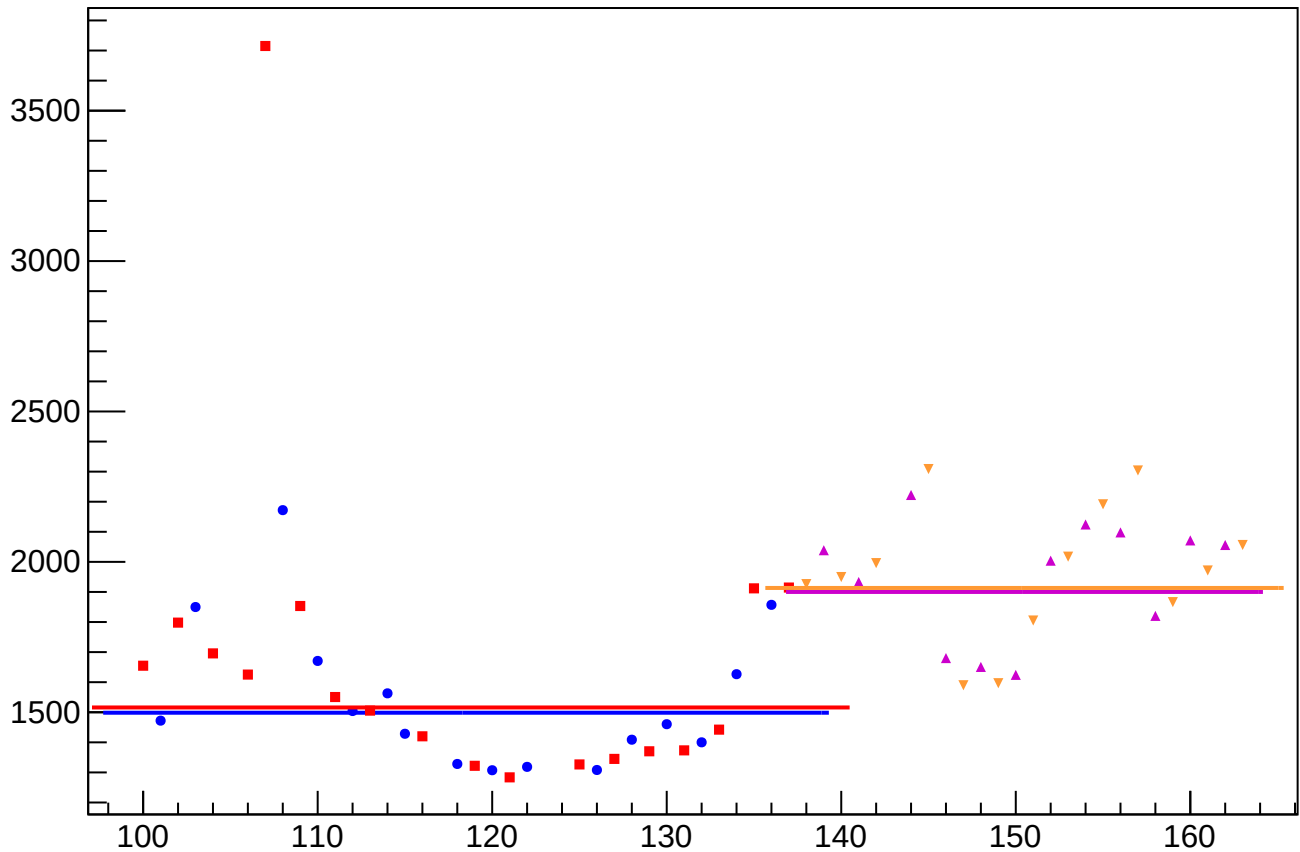
Left In:  $-1092.065 \pm 610.159$   $\chi^2/\text{NDF}$ : 4.5/11

+ sign  $2694.582 \pm 422.822$   $\chi^2/\text{NDF}$ : 32.0/28

All:  $588.522 \pm 298.543$   $\chi^2/\text{NDF}$ : 109.6/58

- sign  $-1505.271 \pm 421.589$   $\chi^2/\text{NDF}$ : 28.1/29

# asym\_usl\_rms vs Slug



Right In: 1498.485 $\pm$ 0.413  $\chi^2$ /NDF: 258807.5/15

Left Out: 1913.287 $\pm$ 0.433  $\chi^2$ /NDF: 264906.1/12

Right Out: 1515.949 $\pm$ 0.412  $\chi^2$ /NDF: 480541.4/17

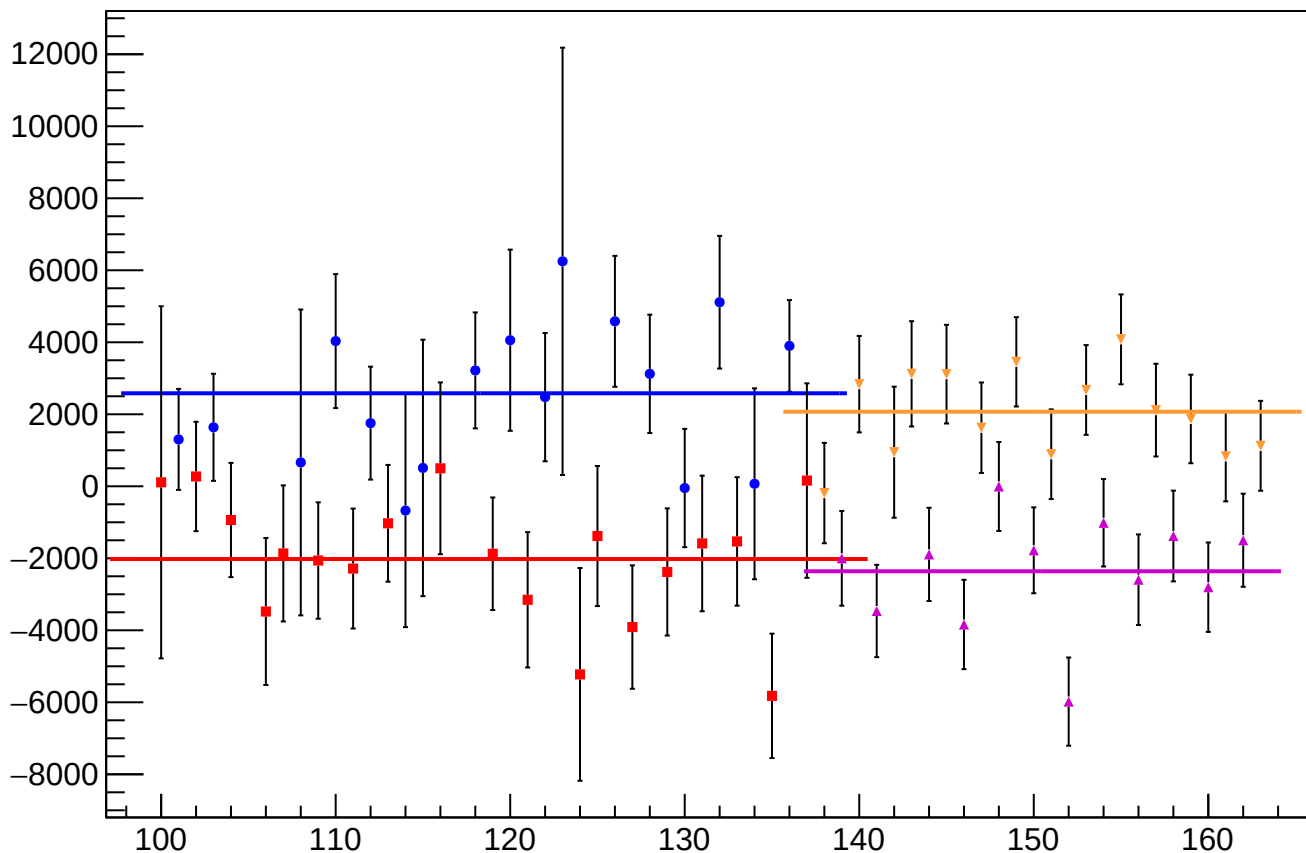
Left In: 1900.024 $\pm$ 0.431  $\chi^2$ /NDF: 218308.7/11

+ sign 1696.079 $\pm$ 0.299  $\chi^2$ /NDF: 1003849.5/28

All: 1697.700 $\pm$ 0.211  $\chi^2$ /NDF: 2116889.4/58

- sign 1699.310 $\pm$ 0.298  $\chi^2$ /NDF: 1112981.3/29

# dit\_asym\_usr\_mean vs Slug



Right In: 2582.988 $\pm$ 453.193  $\chi^2$ /NDF: 12.3/16

Left Out: 2071.124 $\pm$ 350.637  $\chi^2$ /NDF: 11.1/13

Right Out: -2020.735 $\pm$ 426.756  $\chi^2$ /NDF: 13.5/18

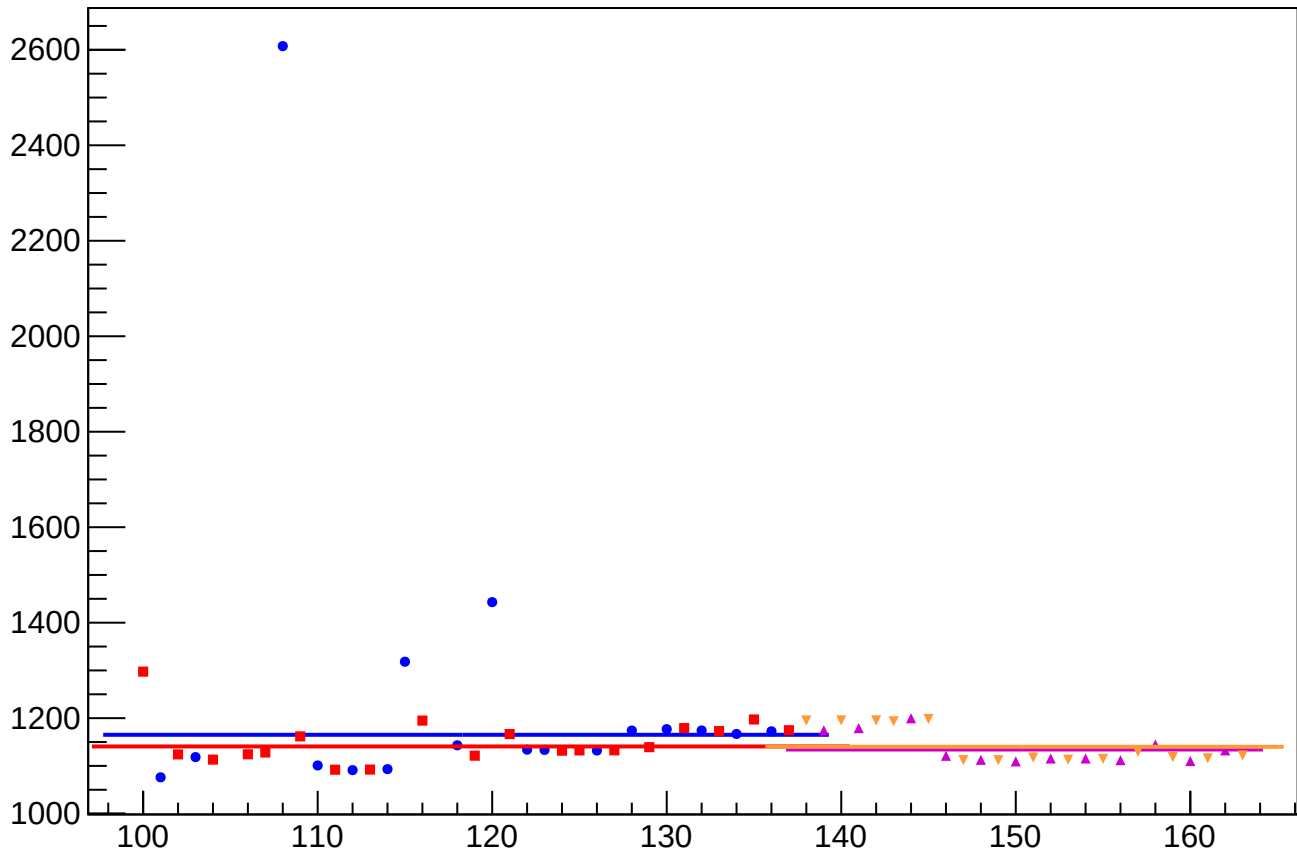
Left In: -2359.576 $\pm$ 361.733  $\chi^2$ /NDF: 17.4/11

+ sign 2262.796 $\pm$ 277.323  $\chi^2$ /NDF: 24.2/30

All: 11.249 $\pm$ 195.606  $\chi^2$ /NDF: 186.7/61

- sign -2217.909 $\pm$ 275.941  $\chi^2$ /NDF: 31.3/30

# dit\_asym\_usr\_rms vs Slug



Right In: 1165.146 $\pm$ 0.320  $\chi^2$ /NDF: 278570.1/16

Left Out: 1140.039 $\pm$ 0.248  $\chi^2$ /NDF: 20987.5/13

Right Out: 1140.752 $\pm$ 0.302  $\chi^2$ /NDF: 12717.7/18

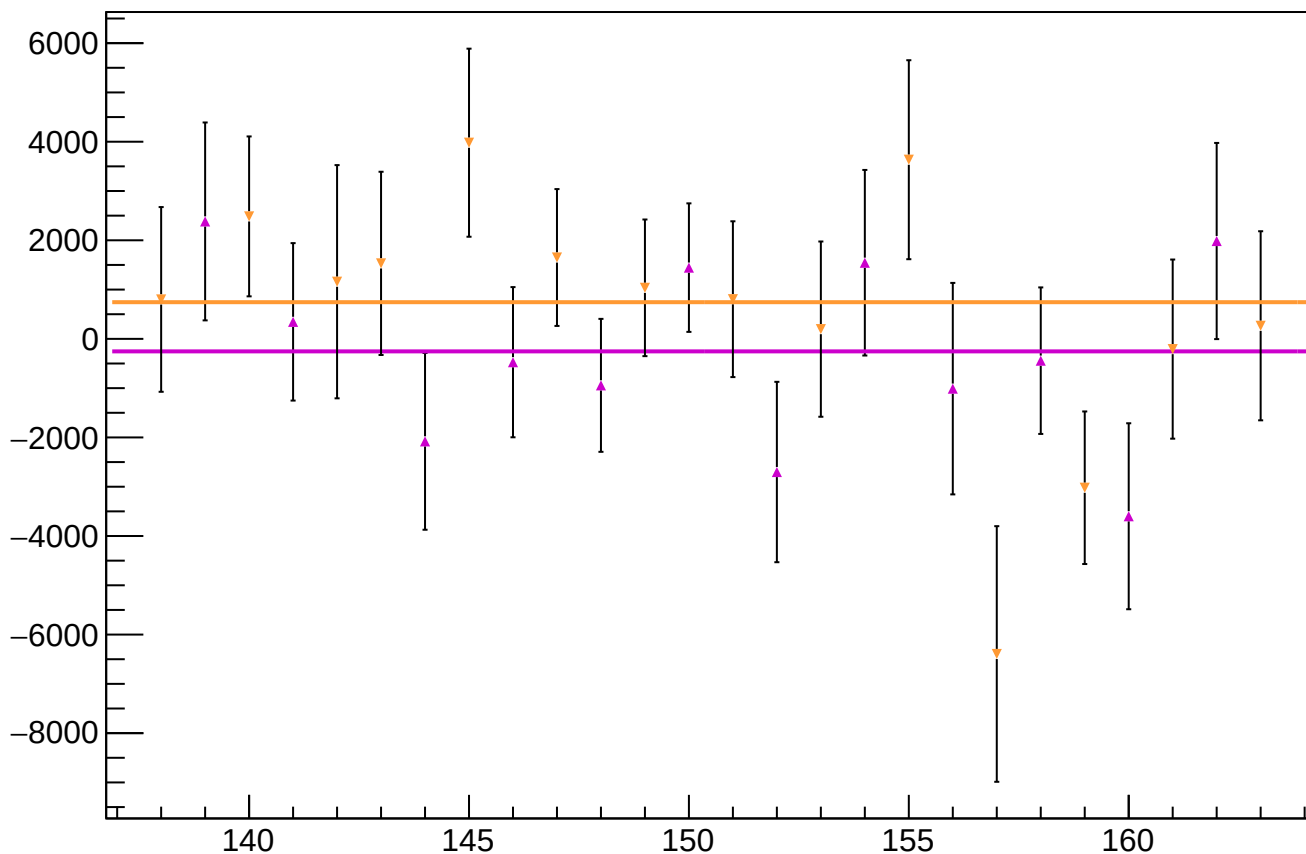
Left In: 1134.335 $\pm$ 0.256  $\chi^2$ /NDF: 13605.6/11

+ sign 1149.441 $\pm$ 0.196  $\chi^2$ /NDF: 303397.4/30

All: 1143.198 $\pm$ 0.138  $\chi^2$ /NDF: 332000.5/61

- sign 1137.018 $\pm$ 0.195  $\chi^2$ /NDF: 26586.4/30

# asym\_usr\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 744.171+/-468.844  $\chi^2/\text{NDF}$ :20.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

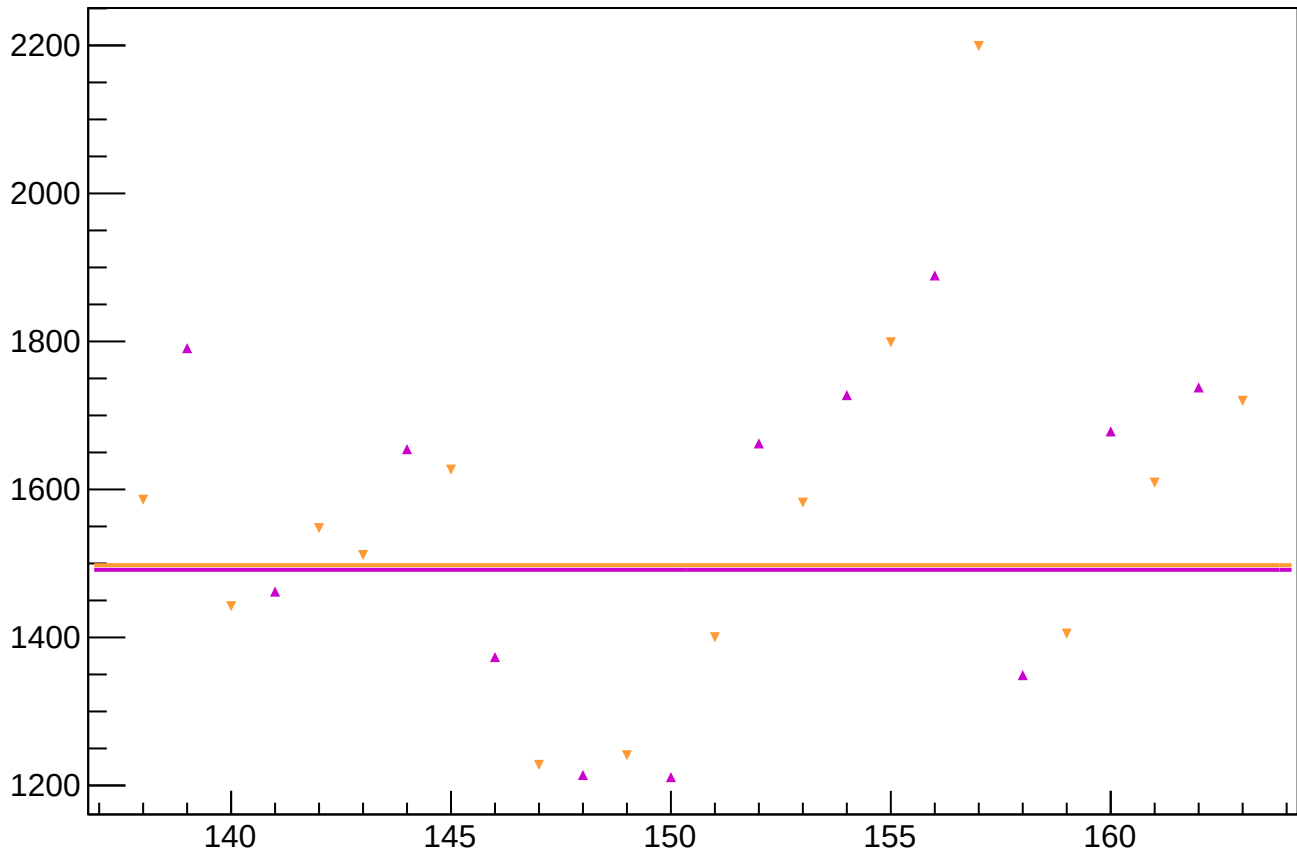
Left In: -253.943+/-482.042  $\chi^2/\text{NDF}$ :12.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 258.965+/-336.092  $\chi^2/\text{NDF}$ : 35.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1497.692+/-0.332  $\chi^2/\text{NDF}$ : 405636.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

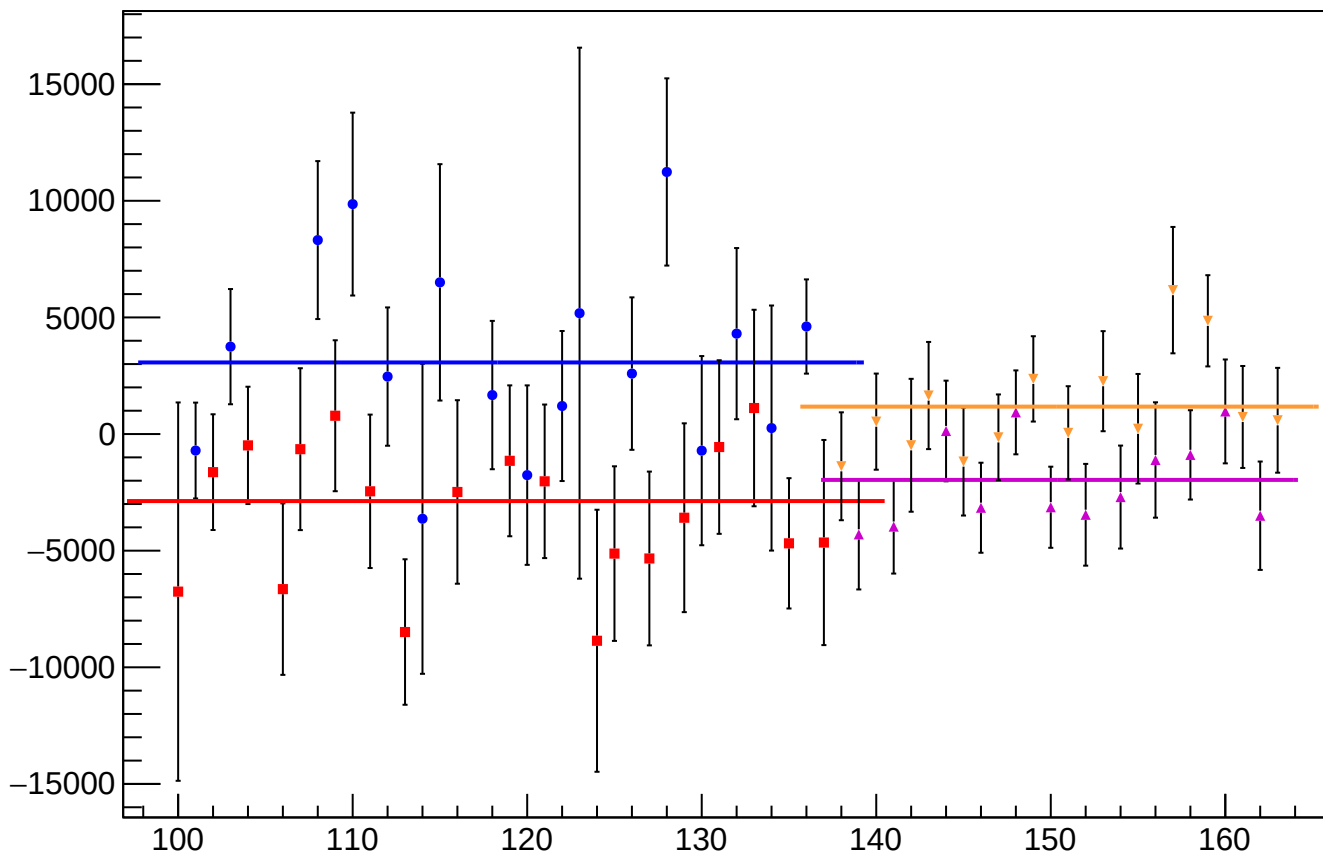
Left In: 1491.407+/-0.341  $\chi^2/\text{NDF}$ : 436786.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1494.637+/-0.238  $\chi^2/\text{NDF}$ : 842597.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_usr\_mean vs Slug



Right In:  $3069.484 \pm 797.741$   $\chi^2/\text{NDF}$ : 18.5/16

Left Out:  $1175.606 \pm 580.244$   $\chi^2/\text{NDF}$ : 11.5/13

Right Out:  $-2872.615 \pm 795.352$   $\chi^2/\text{NDF}$ : 11.6/18

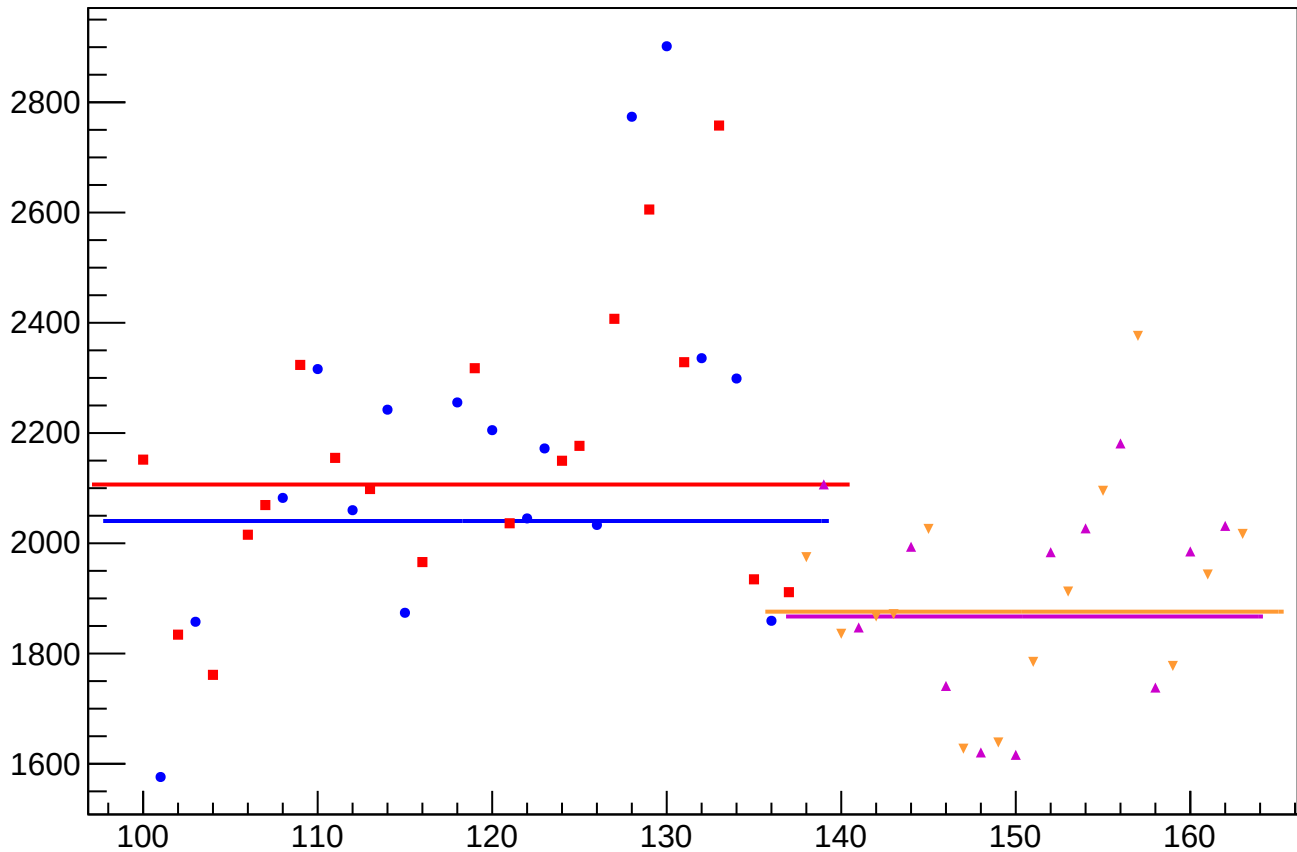
Left In:  $-1966.105 \pm 598.957$   $\chi^2/\text{NDF}$ : 9.5/11

+ sign  $1830.888 \pm 469.245$   $\chi^2/\text{NDF}$ : 33.7/30

All:  $-191.533 \pm 335.017$   $\chi^2/\text{NDF}$ : 93.5/61

- sign  $-2294.157 \pm 478.459$   $\chi^2/\text{NDF}$ : 21.9/30

# asym\_usr\_rms vs Slug



Right In: 2040.433+/-0.564  $\chi^2/\text{NDF}$ : 331339.9/16

Left Out: 1875.979+/-0.410  $\chi^2/\text{NDF}$ : 188261.7/13

Right Out: 2106.624+/-0.562  $\chi^2/\text{NDF}$ : 195414.9/18

Left In: 1867.195+/-0.424  $\chi^2/\text{NDF}$ : 188554.5/11

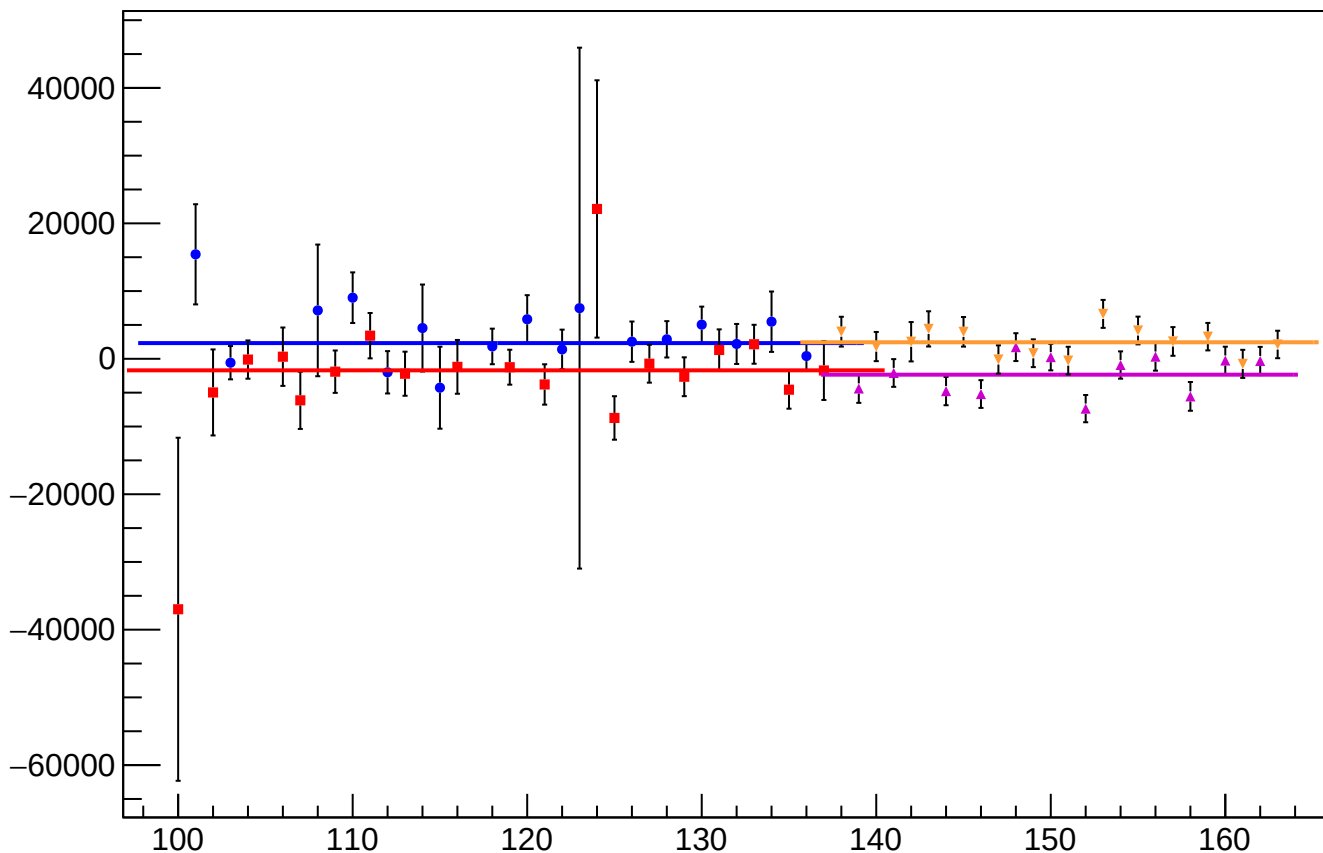
+ sign 1932.880+/-0.332  $\chi^2/\text{NDF}$ : 575189.2/30

All: 1943.157+/-0.237  $\chi^2/\text{NDF}$ : 1076769.5/63

- sign 1953.841+/-0.338  $\chi^2/\text{NDF}$ : 499623.7/30



# dit\_asym\_at1\_avg\_mean vs Slug



Right In: 2319.038 $\pm$ 801.440  $\chi^2$ /NDF: 14.8/16

Left Out: 2440.380 $\pm$ 575.833  $\chi^2$ /NDF:12.9/13

Right Out: -1705.508 $\pm$ 782.848  $\chi^2$ /NDF: 17.2/18

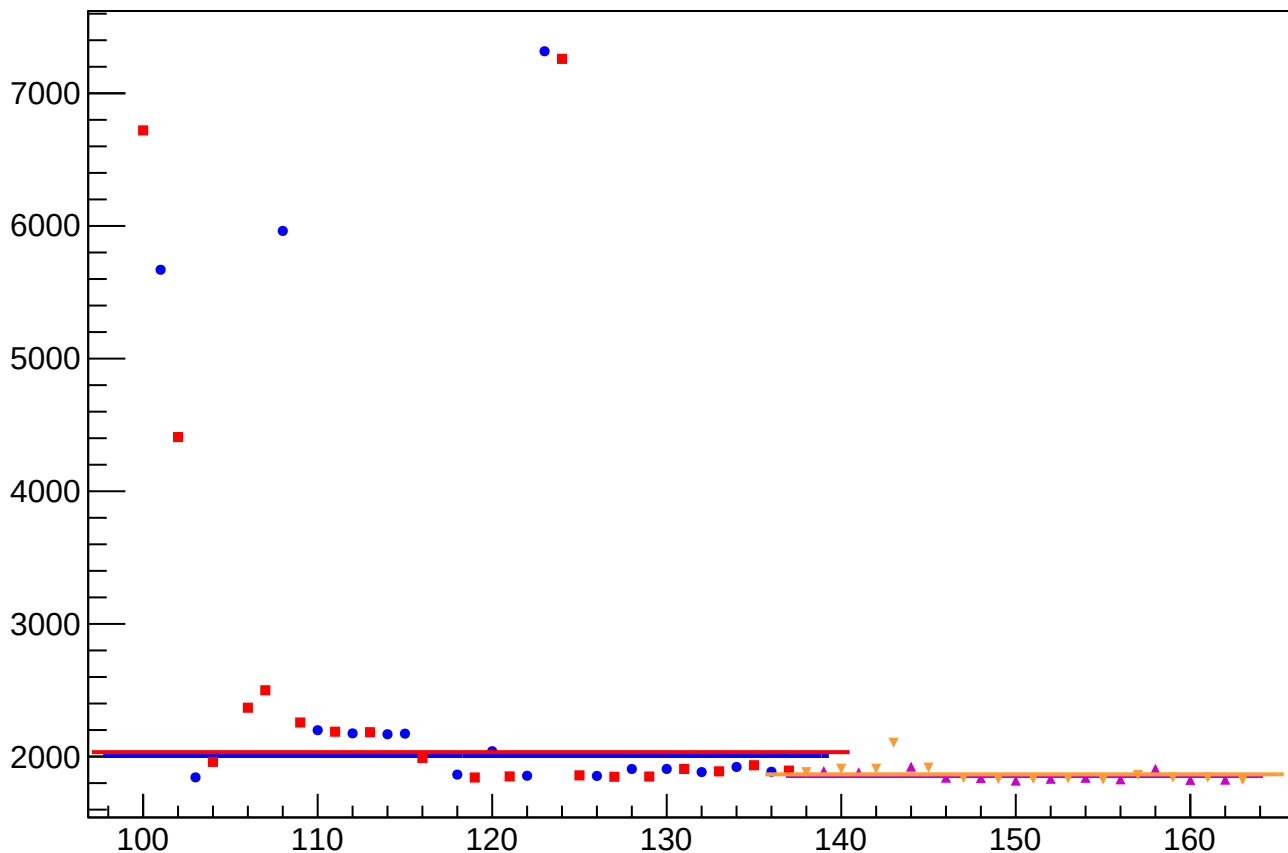
Left In: -2344.695 $\pm$ 593.110  $\chi^2$ /NDF:22.5/11

+ sign 2399.066 $\pm$ 467.641  $\chi^2$ /NDF: 27.7/30

All: 168.241 $\pm$ 332.464  $\chi^2$ /NDF: 113.8/61

- sign -2111.598 $\pm$ 472.751  $\chi^2$ /NDF: 40.1/30

# dit\_asym\_at1\_avg\_rms vs Slug



Right In: 2004.551 $\pm$ 0.567  $\chi^2$ /NDF: 916013.4/16

Left Out: 1866.232 $\pm$ 0.407  $\chi^2$ /NDF: 23359.2/13

Right Out: 2033.490 $\pm$ 0.554  $\chi^2$ /NDF: 611009.8/18

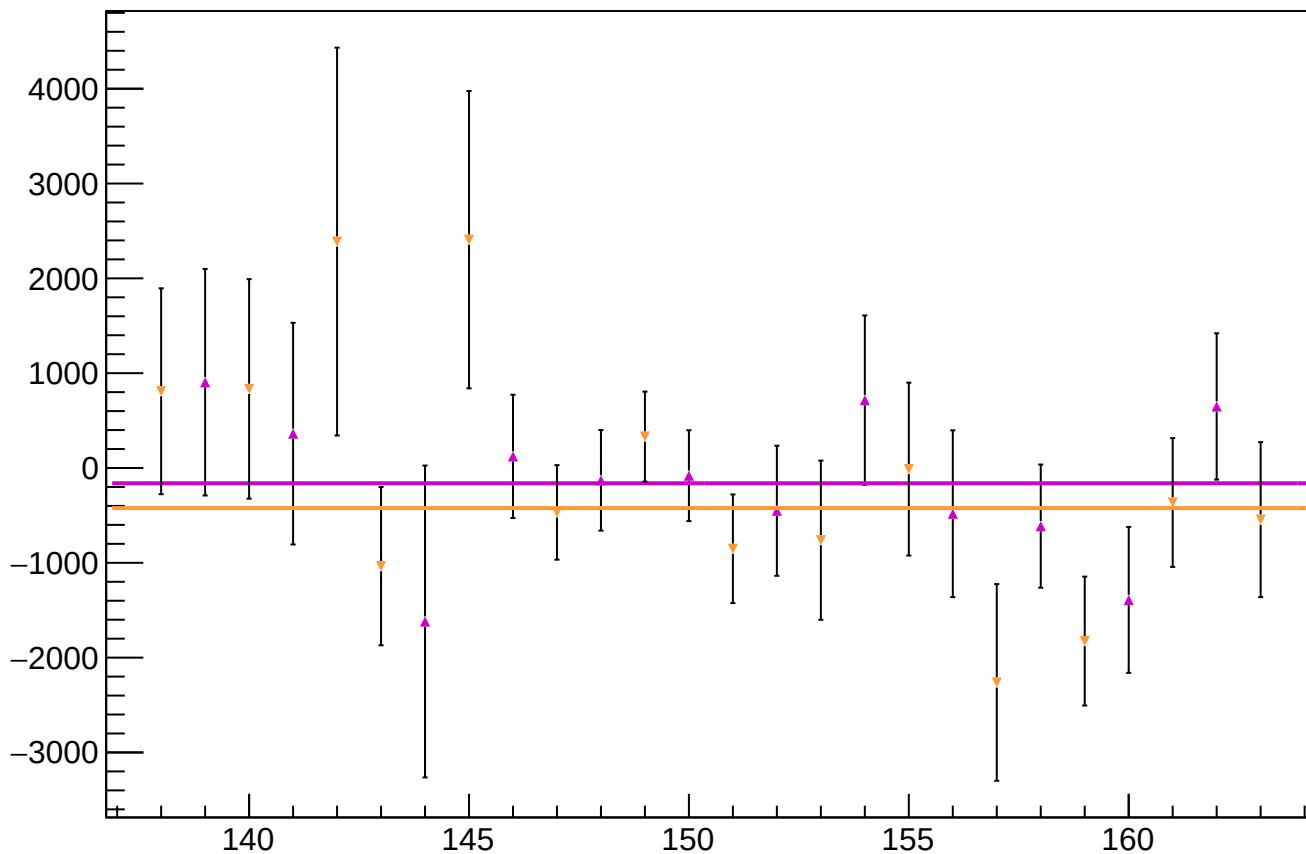
Left In: 1853.656 $\pm$ 0.419  $\chi^2$ /NDF: 6767.4/11

+ sign 1913.325 $\pm$ 0.331  $\chi^2$ /NDF: 978662.9/30

All: 1916.249 $\pm$ 0.235  $\chi^2$ /NDF: 1663651.0/63

- sign 1919.237 $\pm$ 0.334  $\chi^2$ /NDF: 684830.1/30

# asym\_at1\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -422.908 $\pm$ 201.751  $\chi^2$ /NDF:19.0/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

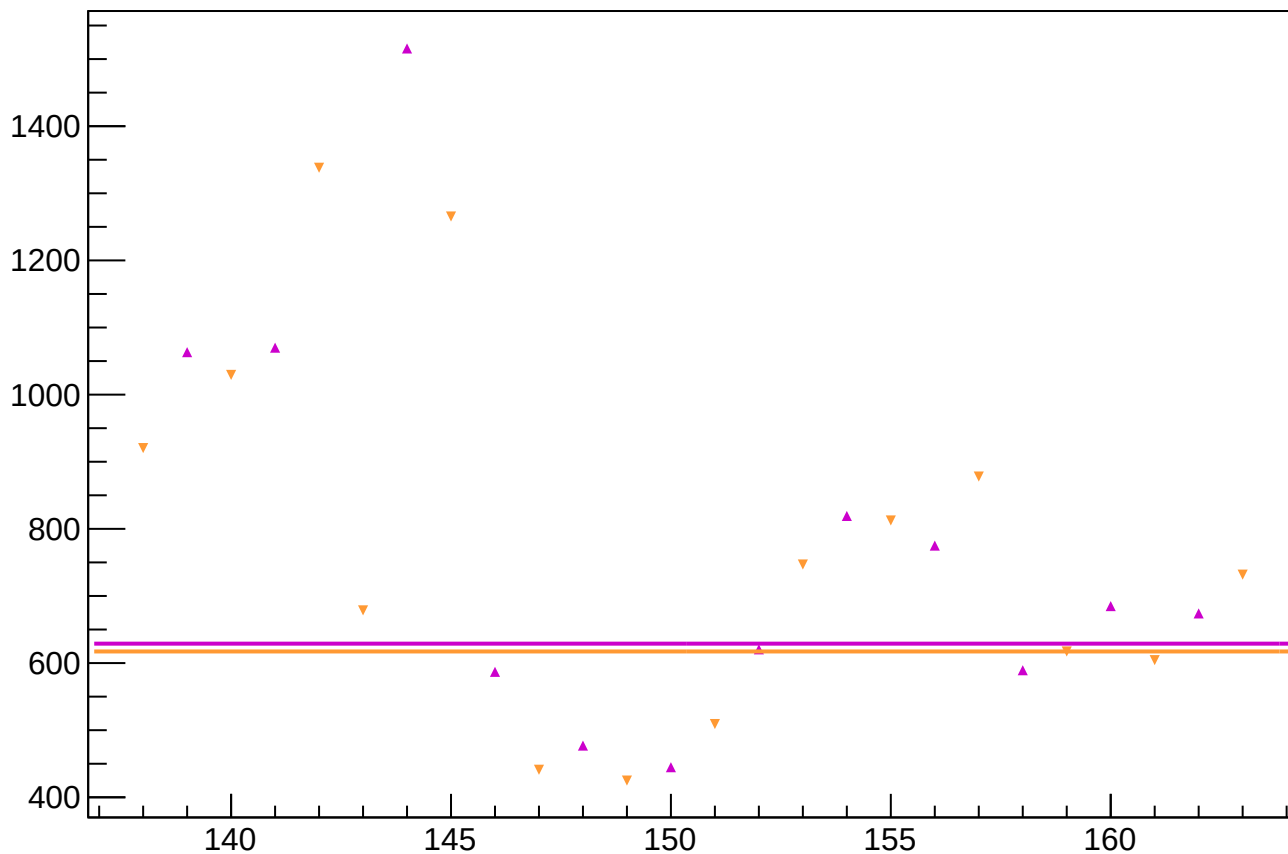
Left In: -161.036 $\pm$ 210.842  $\chi^2$ /NDF:7.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -297.740 $\pm$ 145.768  $\chi^2$ /NDF: 27.3/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_at1\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 617.310+/-0.143  $\chi^2/\text{NDF}$ :1965805.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

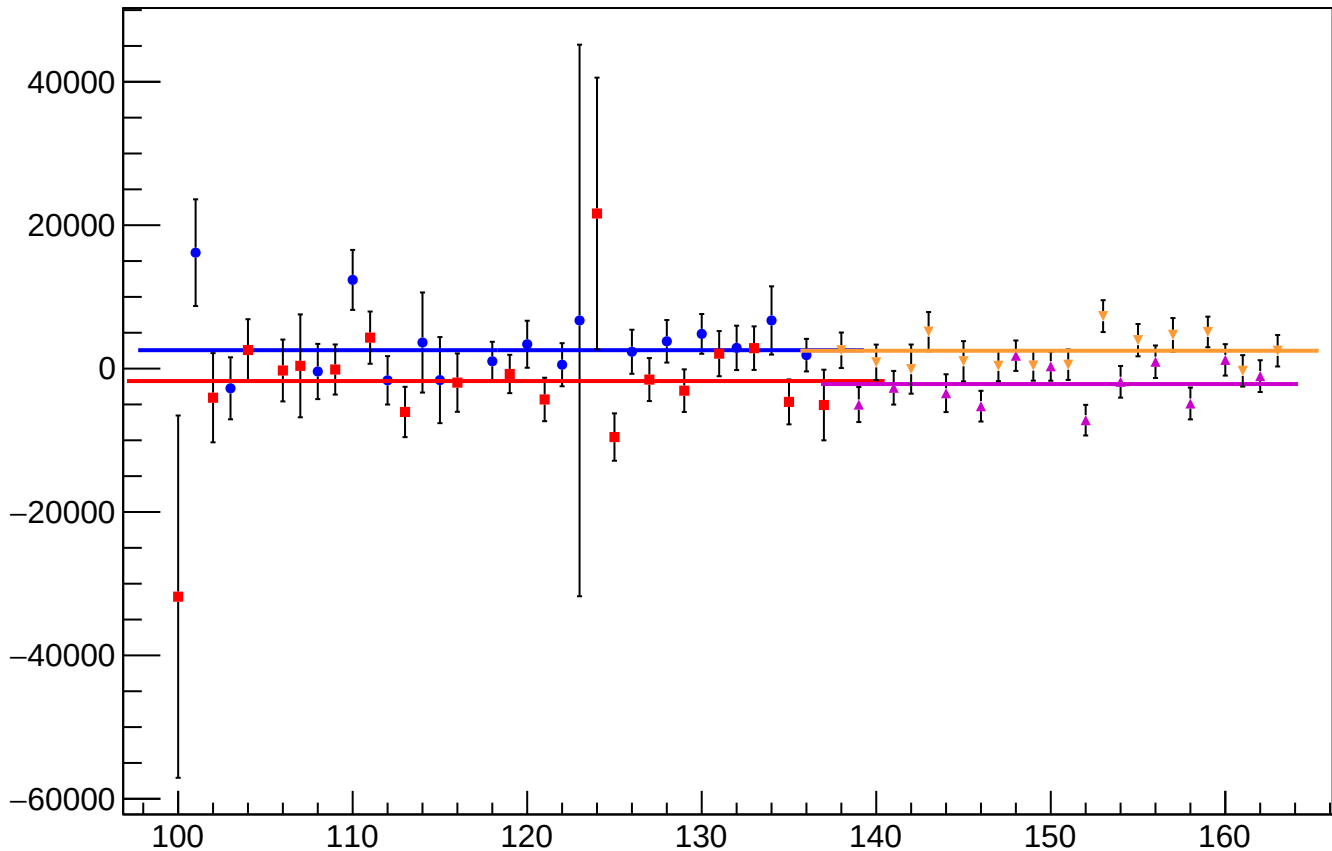
Left In: 628.948+/-0.149  $\chi^2/\text{NDF}$ :1769976.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 622.873+/-0.103  $\chi^2/\text{NDF}$ : 3738962.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_avg\_mean vs Slug



Right In: 2566.797 $\pm$ 856.089  $\chi^2/\text{NDF}$ : 15.6/16

Left Out: 2490.915 $\pm$ 625.339  $\chi^2/\text{NDF}$ :14.2/13

Right Out: -1737.684 $\pm$ 853.181  $\chi^2/\text{NDF}$ : 20.5/18

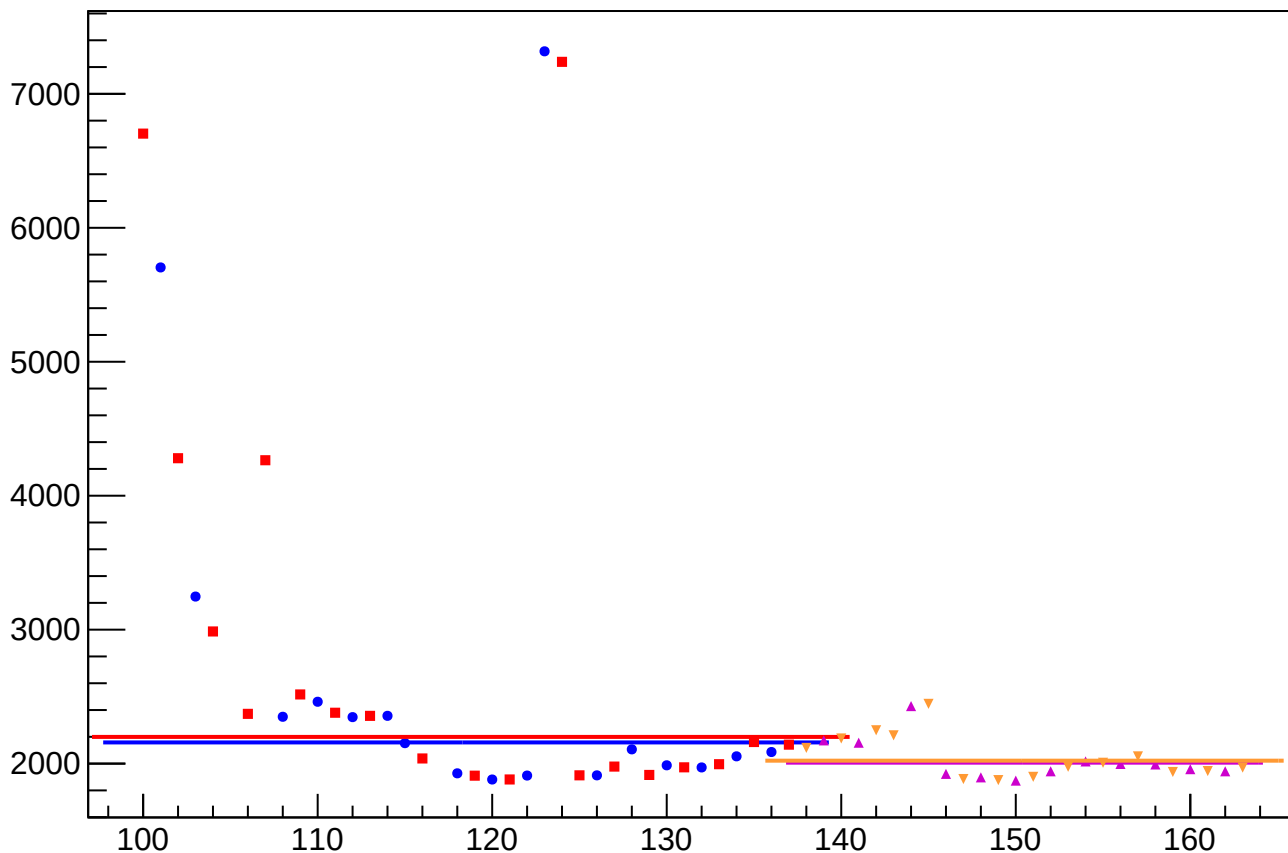
Left In: -2154.646 $\pm$ 643.643  $\chi^2/\text{NDF}$ :20.3/11

+ sign 2517.316 $\pm$ 504.968  $\chi^2/\text{NDF}$ : 29.7/30

All: 296.258 $\pm$ 360.157  $\chi^2/\text{NDF}$ : 110.1/61

- sign -2003.413 $\pm$ 513.826  $\chi^2/\text{NDF}$ : 41.0/30

# asym\_at1\_avg\_rms vs Slug



Right In: 2158.148 $\pm$ 0.605  $\chi^2$ /NDF: 713862.1/16

Left Out: 2021.930 $\pm$ 0.442  $\chi^2$ /NDF:108276.5/13

Right Out: 2199.343 $\pm$ 0.603  $\chi^2$ /NDF: 803022.0/18

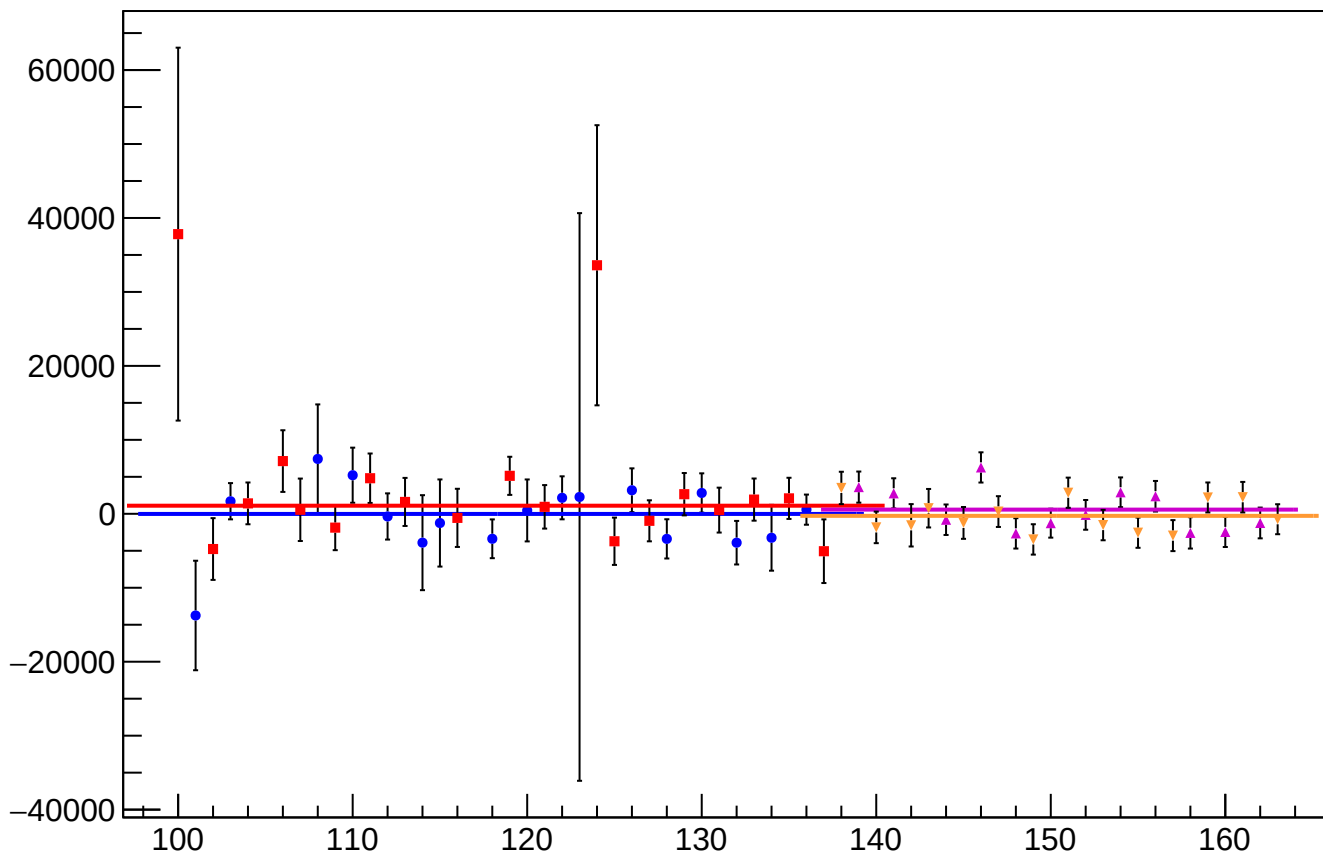
Left In: 2007.092 $\pm$ 0.455  $\chi^2$ /NDF:90519.2/11

+ sign 2069.324 $\pm$ 0.357  $\chi^2$ /NDF: 855157.3/30

All: 2073.008 $\pm$ 0.255  $\chi^2$ /NDF: 1813633.5/63

- sign 2076.822 $\pm$ 0.363  $\chi^2$ /NDF: 958259.5/30

# dit\_asym\_at1\_dd\_mean vs Slug



Right In:  $-18.275 \pm 801.405$   $\chi^2/\text{NDF}$ : 15.8/16

Left Out:  $-276.793 \pm 573.007$   $\chi^2/\text{NDF}$ : 15.2/13

Right Out:  $1095.433 \pm 769.722$   $\chi^2/\text{NDF}$ : 19.4/18

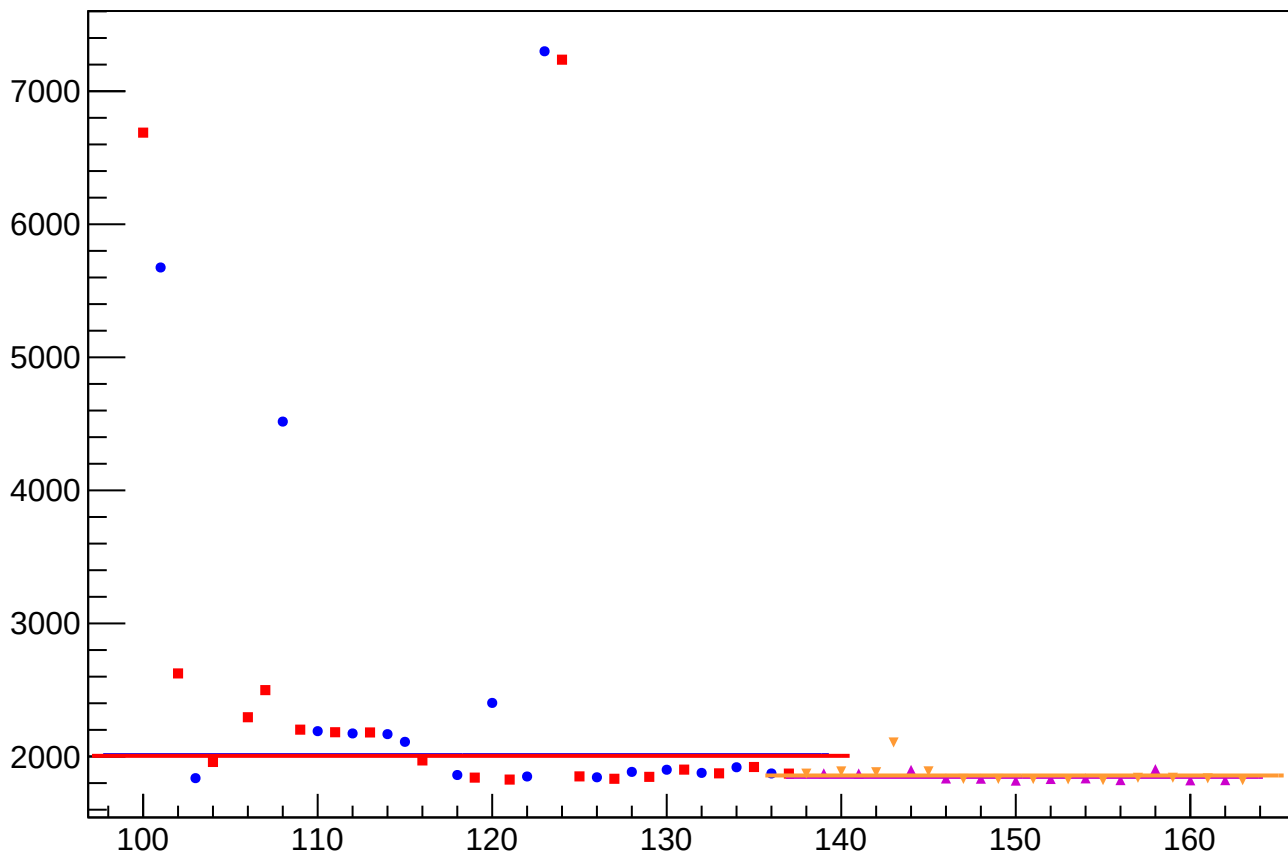
Left In:  $566.444 \pm 590.841$   $\chi^2/\text{NDF}$ : 22.2/11

+ sign  $-189.340 \pm 466.117$   $\chi^2/\text{NDF}$ : 31.1/30

All:  $284.002 \pm 330.498$   $\chi^2/\text{NDF}$ : 75.1/61

- sign  $762.571 \pm 468.684$   $\chi^2/\text{NDF}$ : 41.9/30

# dit\_asym\_at1\_dd\_rms vs Slug



Right In: 2010.272 $\pm$ 0.567  $\chi^2$ /NDF: 839746.7/16

Left Out: 1857.194 $\pm$ 0.405  $\chi^2$ /NDF: 22310.2/13

Right Out: 2004.882 $\pm$ 0.544  $\chi^2$ /NDF: 367513.0/18

Left In: 1846.680 $\pm$ 0.418  $\chi^2$ /NDF: 5086.5/11

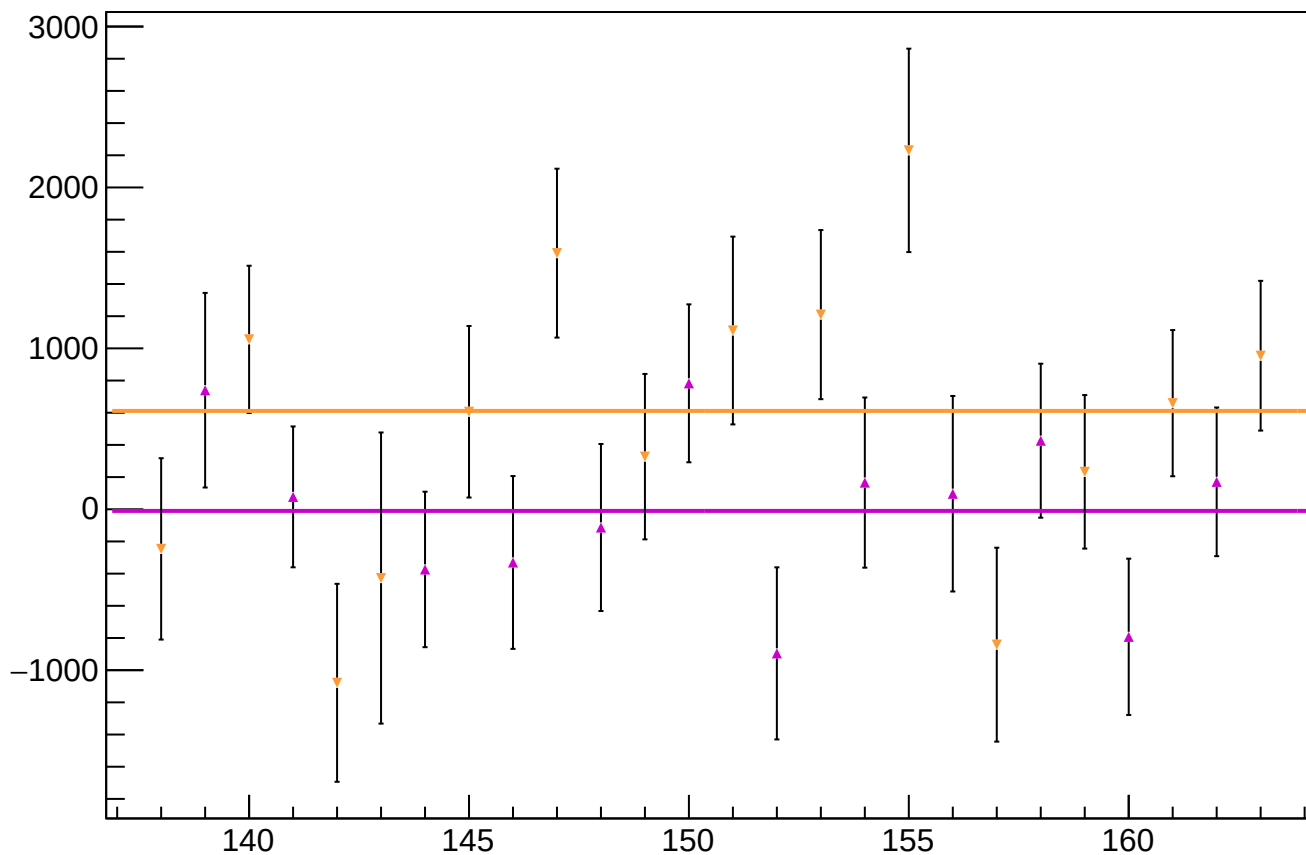
+ sign 1908.979 $\pm$ 0.330  $\chi^2$ /NDF: 910342.8/30

All: 1907.167 $\pm$ 0.234  $\chi^2$ /NDF: 1336165.8/63

- sign 1905.335 $\pm$ 0.331  $\chi^2$ /NDF: 425762.2/30



# asym\_at1\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 611.215+/-143.741  $\chi^2/\text{NDF}$ :31.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

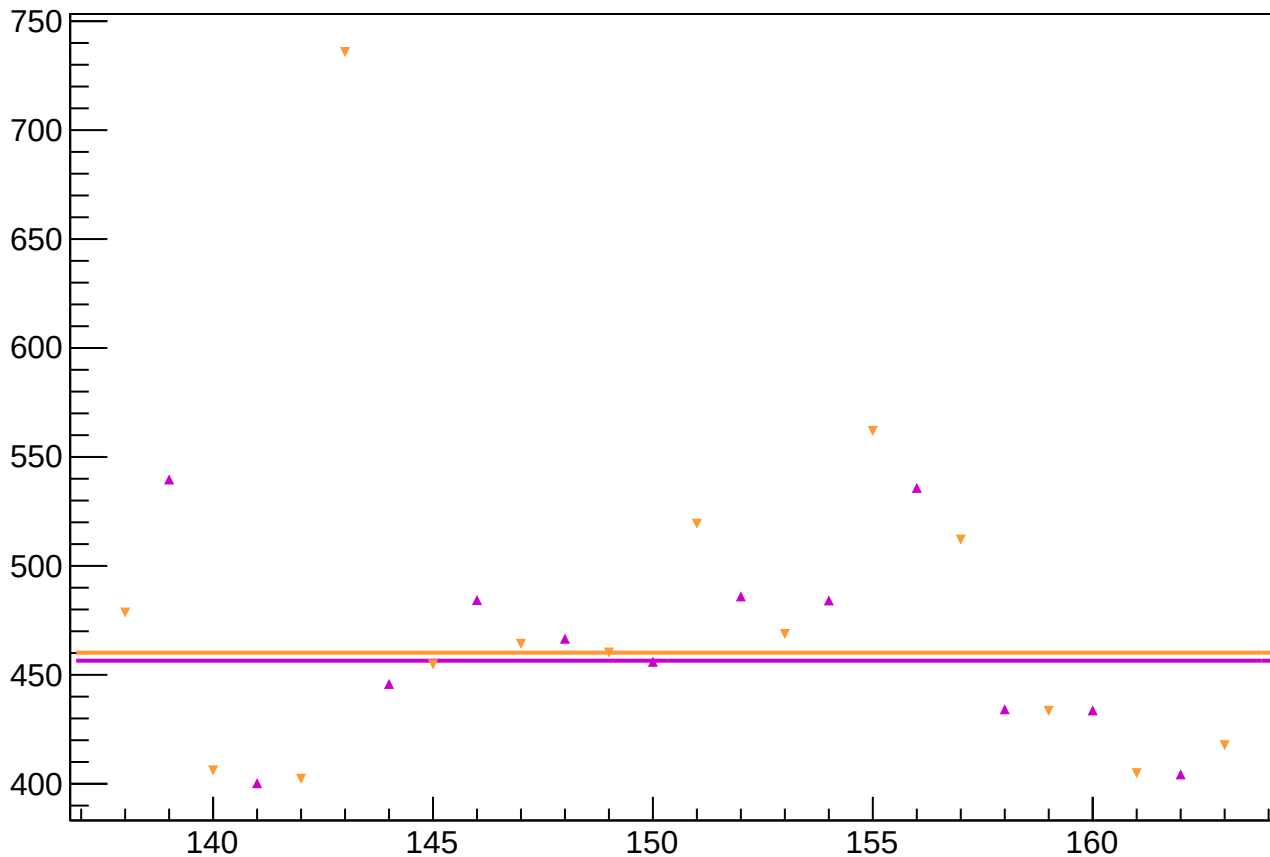
Left In: -10.105+/-146.423  $\chi^2/\text{NDF}$ :11.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 306.297+/-102.575  $\chi^2/\text{NDF}$ : 52.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 460.172+/-0.102  $\chi^2/\text{NDF}$ : 374143.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

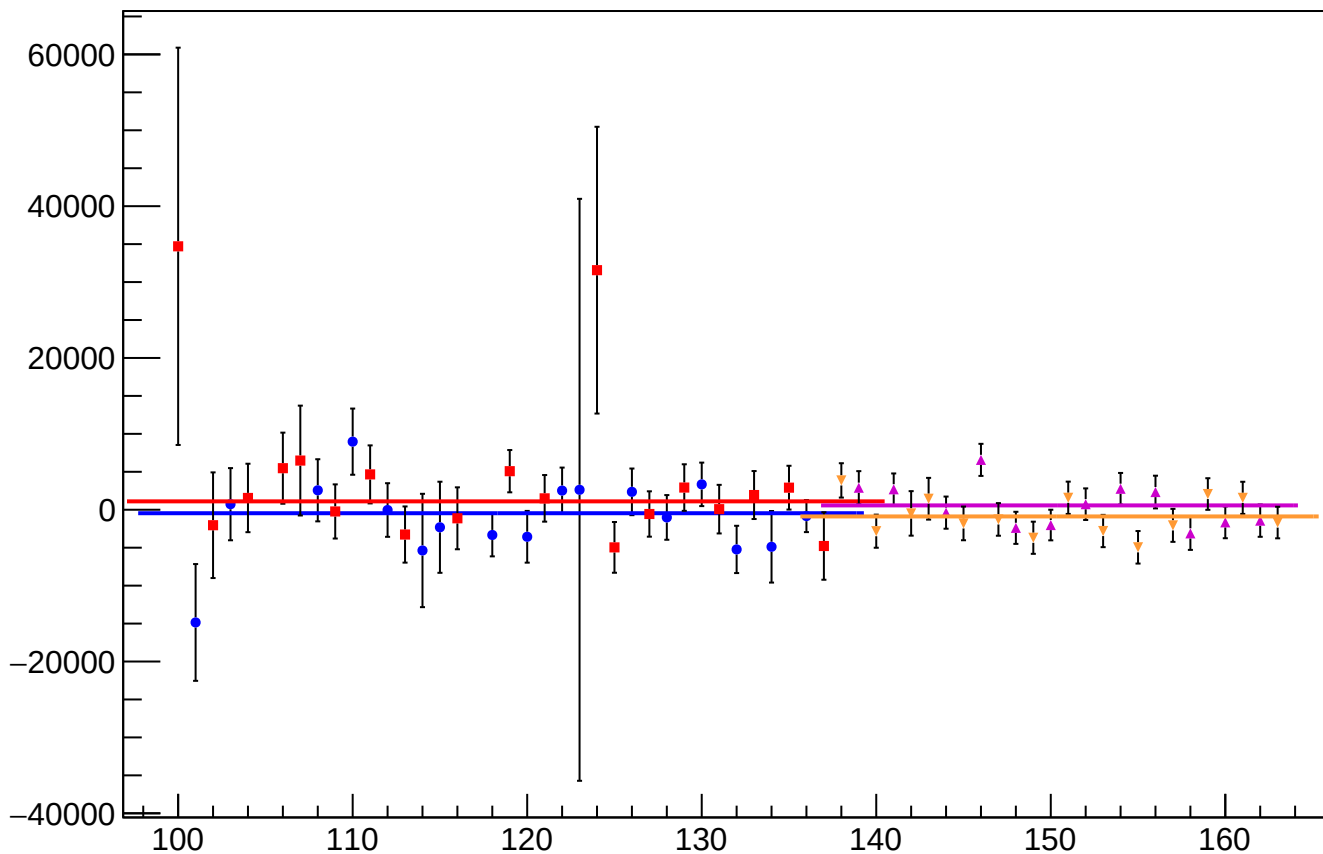
Left In: 456.500+/-0.104  $\chi^2/\text{NDF}$ : 157790.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 458.370+/-0.073  $\chi^2/\text{NDF}$ : 532574.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at1\_dd\_mean vs Slug



Right In: -458.311+/-865.151  $\chi^2/\text{NDF}$ : 18.1/16

Left Out: -882.045+/-592.099  $\chi^2/\text{NDF}$ : 17.4/13

Right Out: 1104.312+/-867.160  $\chi^2/\text{NDF}$ : 16.9/18

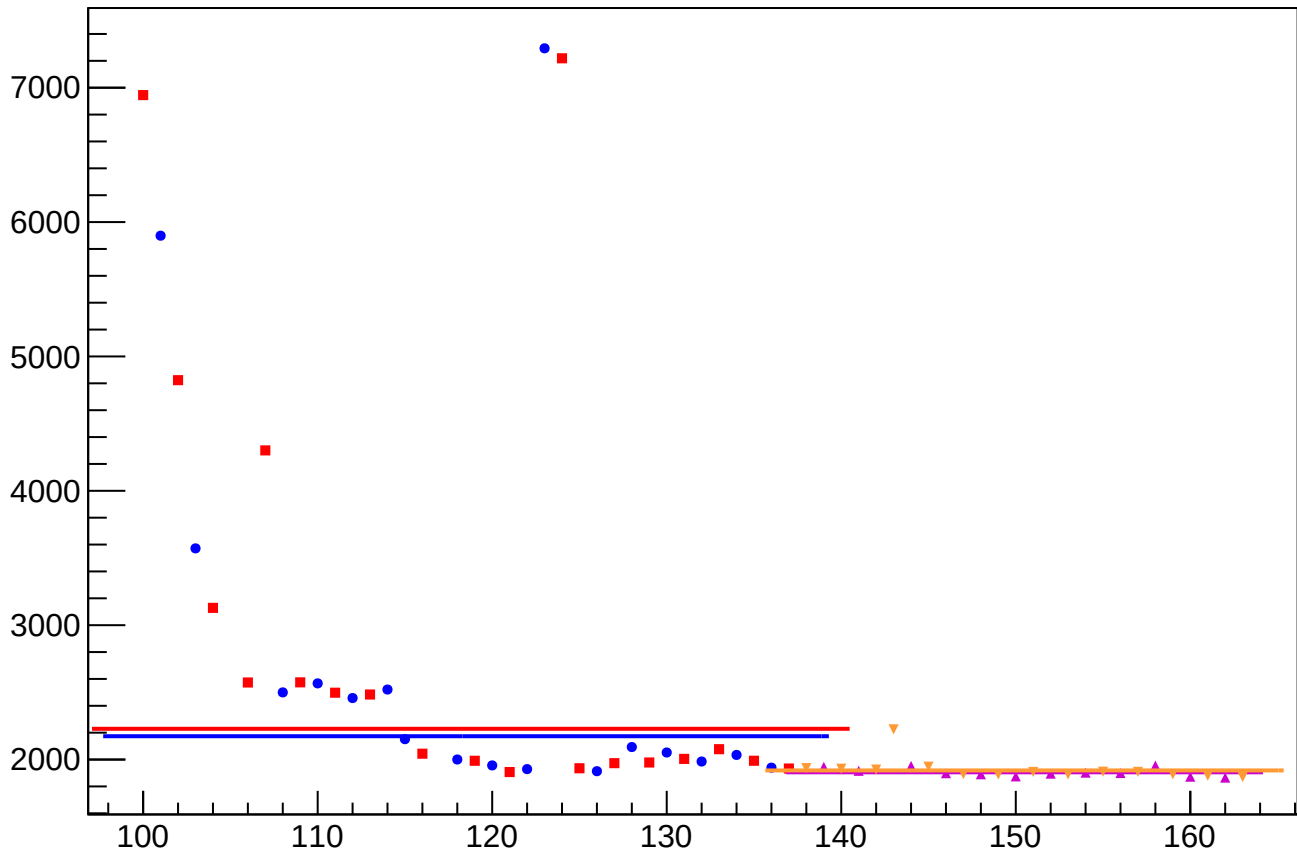
Left In: 571.694+/-609.464  $\chi^2/\text{NDF}$ : 20.7/11

+ sign -746.882+/-488.623  $\chi^2/\text{NDF}$ : 35.7/30

All: -14.689+/-348.993  $\chi^2/\text{NDF}$ : 78.1/61

- sign 747.800+/-498.629  $\chi^2/\text{NDF}$ : 37.9/30

# asym\_at1\_dd\_rms vs Slug



Right In: 2173.529+/-0.612  $\chi^2/\text{NDF}$ : 805360.7/16

Left Out: 1919.042+/-0.419  $\chi^2/\text{NDF}$ : 28691.9/13

Right Out: 2228.892+/-0.613  $\chi^2/\text{NDF}$ : 895863.4/18

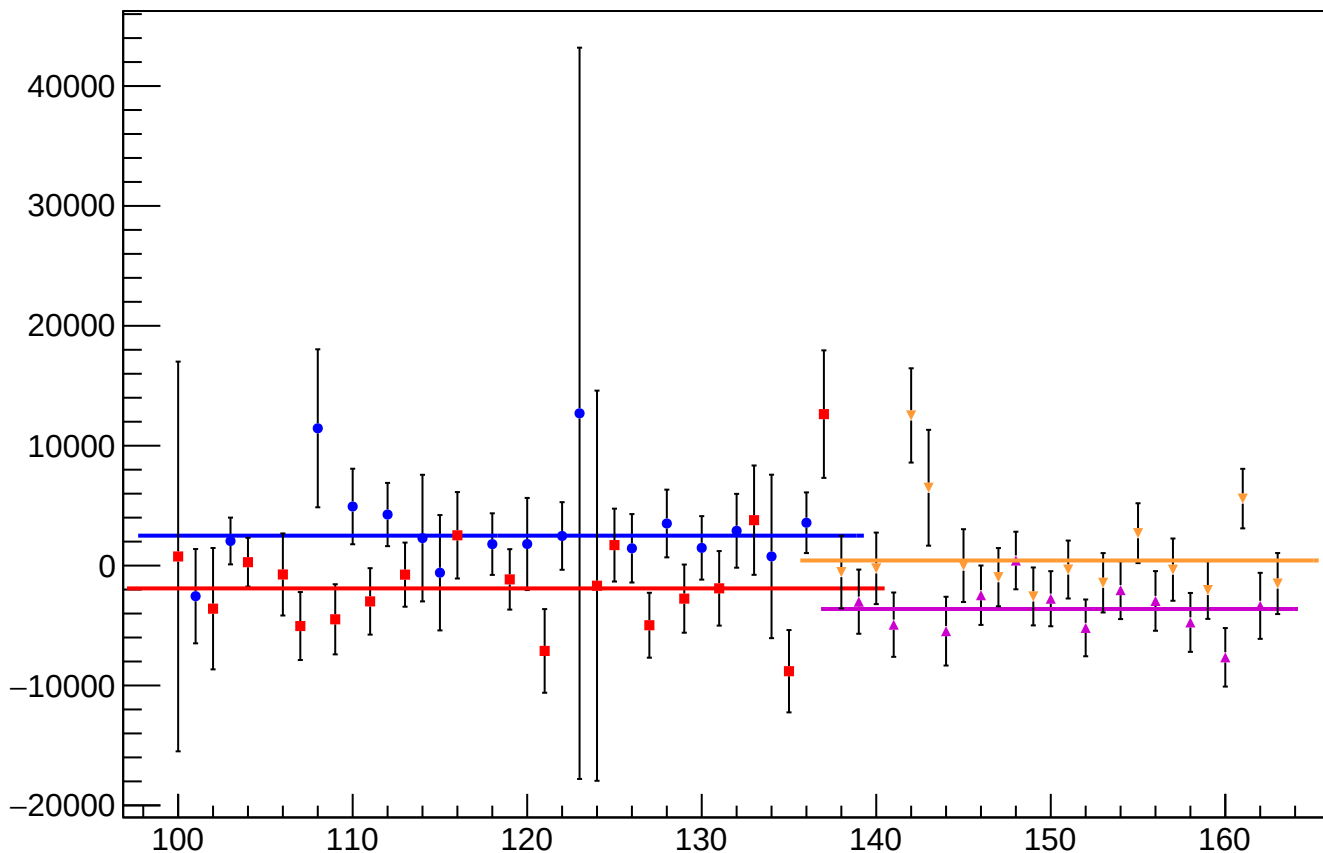
Left In: 1905.102+/-0.431  $\chi^2/\text{NDF}$ : 4595.9/11

+ sign 2000.218+/-0.346  $\chi^2/\text{NDF}$ : 951903.9/30

All: 2006.069+/-0.247  $\chi^2/\text{NDF}$ : 2039594.7/63

- sign 2012.161+/-0.353  $\chi^2/\text{NDF}$ : 1087105.5/30

# dit\_asym\_at2\_avg\_mean vs Slug



Right In:  $2496.610 \pm 768.295$   $\chi^2/\text{NDF}$ : 5.9/16

Left Out:  $426.279 \pm 723.459$   $\chi^2/\text{NDF}$ : 20.6/13

Right Out:  $-1902.970 \pm 736.793$   $\chi^2/\text{NDF}$ : 23.5/18

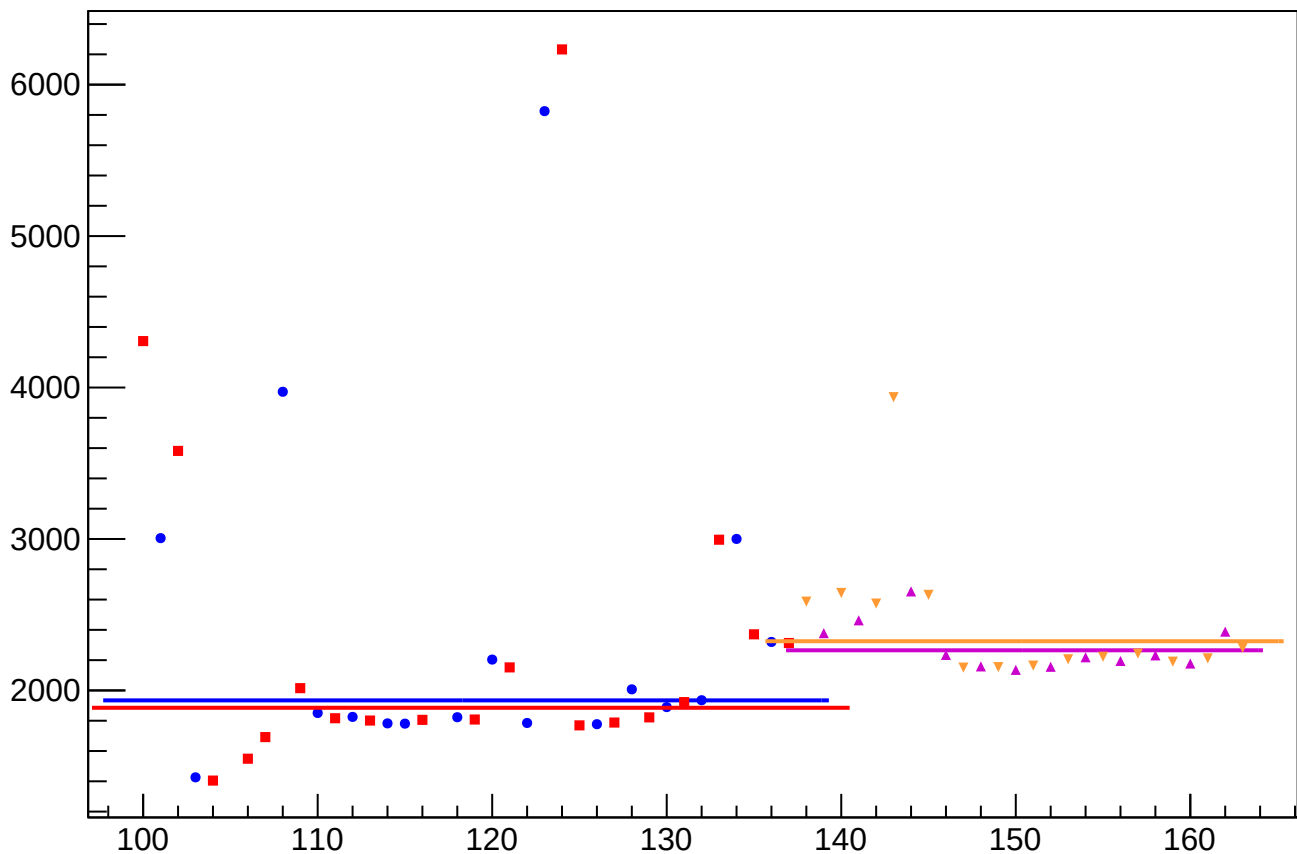
Left In:  $-3620.192 \pm 724.931$   $\chi^2/\text{NDF}$ : 7.8/11

+ sign  $1399.276 \pm 526.700$   $\chi^2/\text{NDF}$ : 30.3/30

All:  $-727.942 \pm 368.864$   $\chi^2/\text{NDF}$ : 96.4/61

- sign  $-2775.516 \pm 516.746$   $\chi^2/\text{NDF}$ : 34.0/30

# dit\_asym\_at2\_avg\_rms vs Slug



Right In:  $1934.404 \pm 0.543$   $\chi^2/\text{NDF}$ : 638920.4/16

Left Out:  $2324.933 \pm 0.512$   $\chi^2/\text{NDF}$ : 338863.7/13

Right Out:  $1885.547 \pm 0.521$   $\chi^2/\text{NDF}$ : 752091.8/18

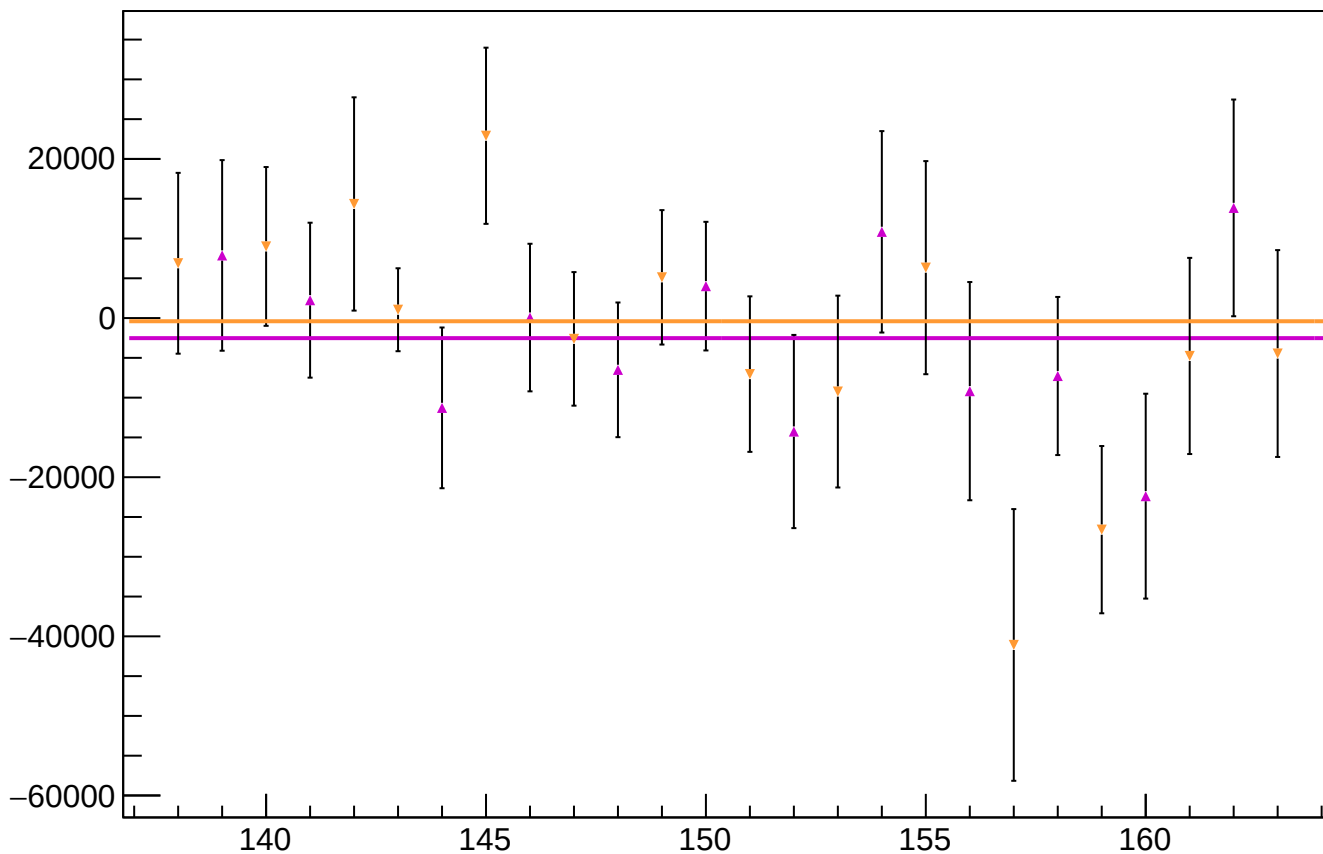
Left In:  $2265.023 \pm 0.513$   $\chi^2/\text{NDF}$ : 75289.1/11

+ sign  $2141.395 \pm 0.372$   $\chi^2/\text{NDF}$ : 1251677.2/30

All:  $2109.258 \pm 0.261$   $\chi^2/\text{NDF}$ : 2363289.0/61

- sign  $2078.329 \pm 0.365$   $\chi^2/\text{NDF}$ : 1096999.9/30

# asym\_at2\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -398.742+/-2631.231  $\chi^2/\text{NDF}$ : 20.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

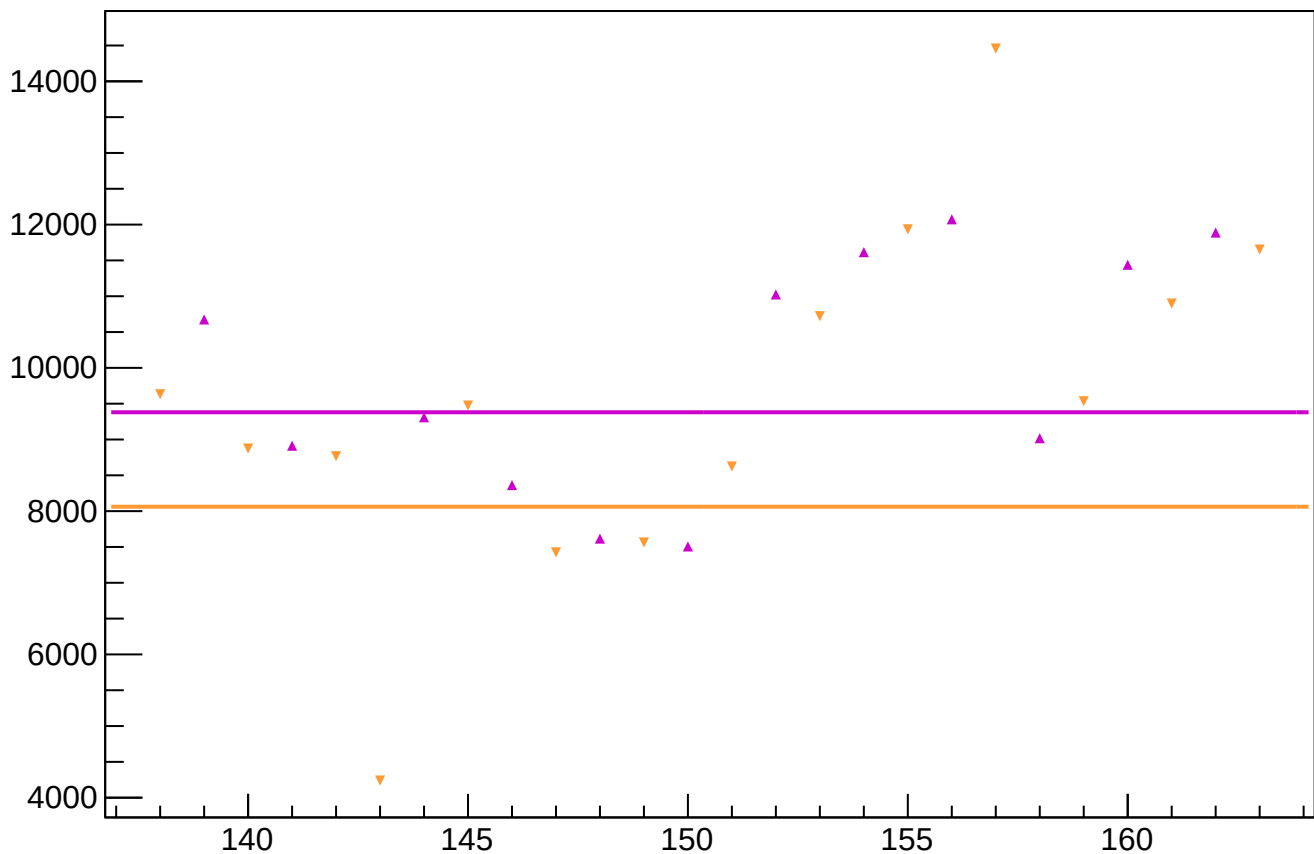
Left In: -2522.336+/-3041.266  $\chi^2/\text{NDF}$ : 9.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1307.834+/-1989.860  $\chi^2/\text{NDF}$ : 30.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8061.592+/-1.861  $\chi^2/\text{NDF}$ : 2032999.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9380.384+/-2.150  $\chi^2/\text{NDF}$ : 544361.0/11

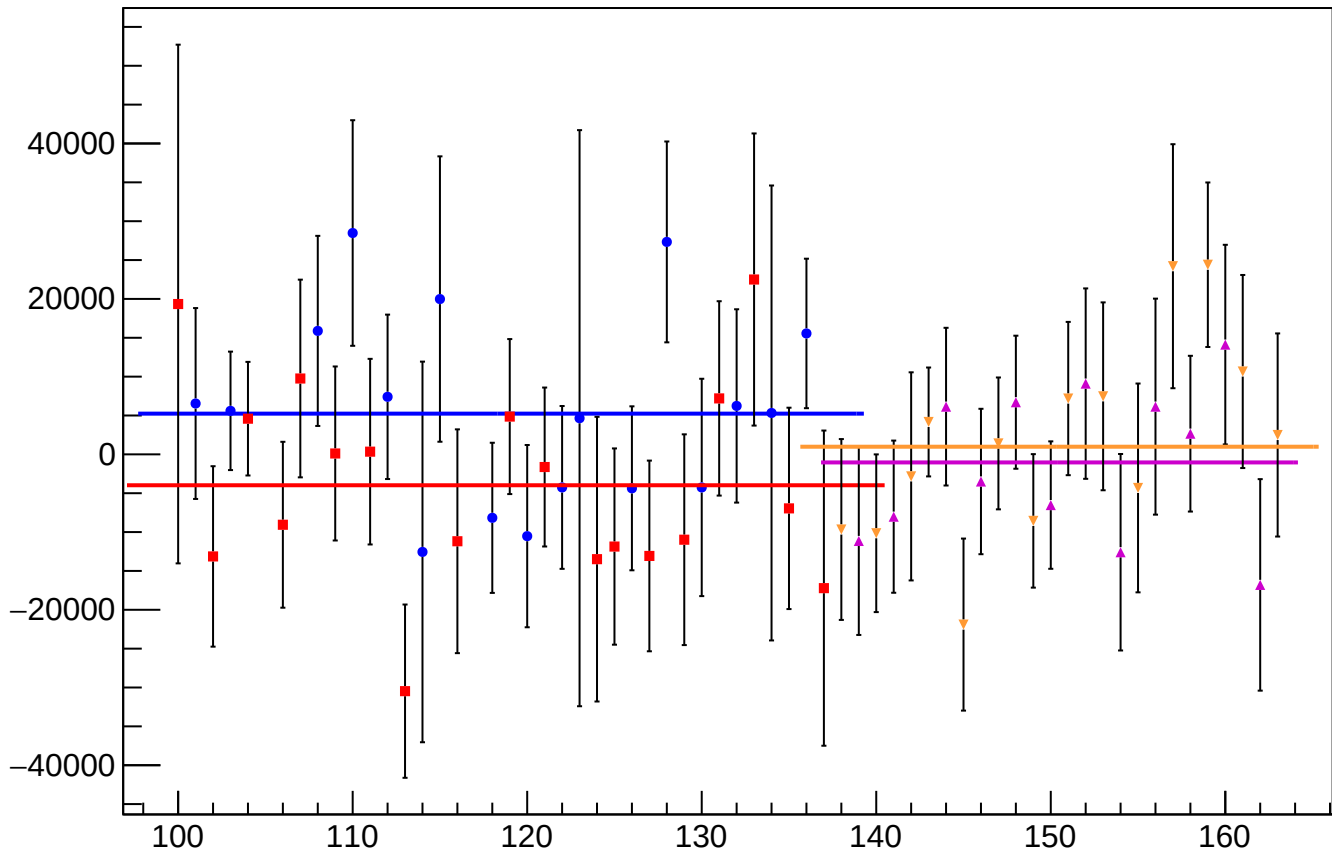
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8626.155+/-1.407  $\chi^2/\text{NDF}$ : 2792441.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_at2\_avg\_mean vs Slug



Right In: 5238.554 $\pm$ 2946.164  $\chi^2$ /NDF: 14.5/16

Left Out: 982.652 $\pm$ 2809.890  $\chi^2$ /NDF:16.4/13

Right Out: -3976.061 $\pm$ 2790.421  $\chi^2$ /NDF: 15.6/18

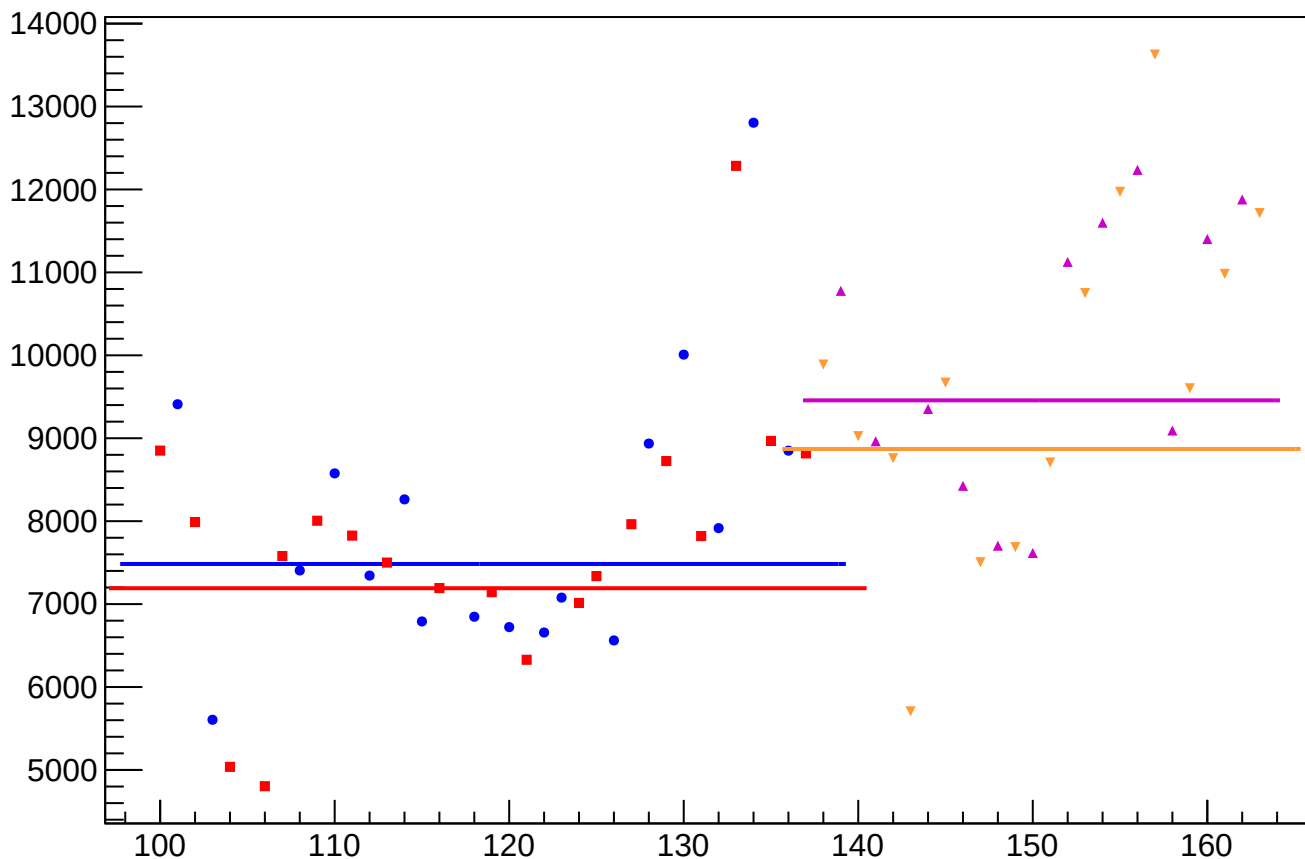
Left In: -1039.344 $\pm$ 3064.904  $\chi^2$ /NDF:7.7/11

+ sign 3009.901 $\pm$ 2033.362  $\chi^2$ /NDF: 32.0/30

All: 223.817 $\pm$ 1448.292  $\chi^2$ /NDF: 59.6/61

- sign -2645.067 $\pm$ 2063.355  $\chi^2$ /NDF: 23.8/30

# asym\_at2\_avg\_rms vs Slug



Right In:  $7483.785 \pm 2.083$   $\chi^2/\text{NDF}$ : 431806.2/16

Left Out:  $8870.425 \pm 1.987$   $\chi^2/\text{NDF}$ : 1025118.2/13

Right Out:  $7191.451 \pm 1.973$   $\chi^2/\text{NDF}$ : 558753.1/18

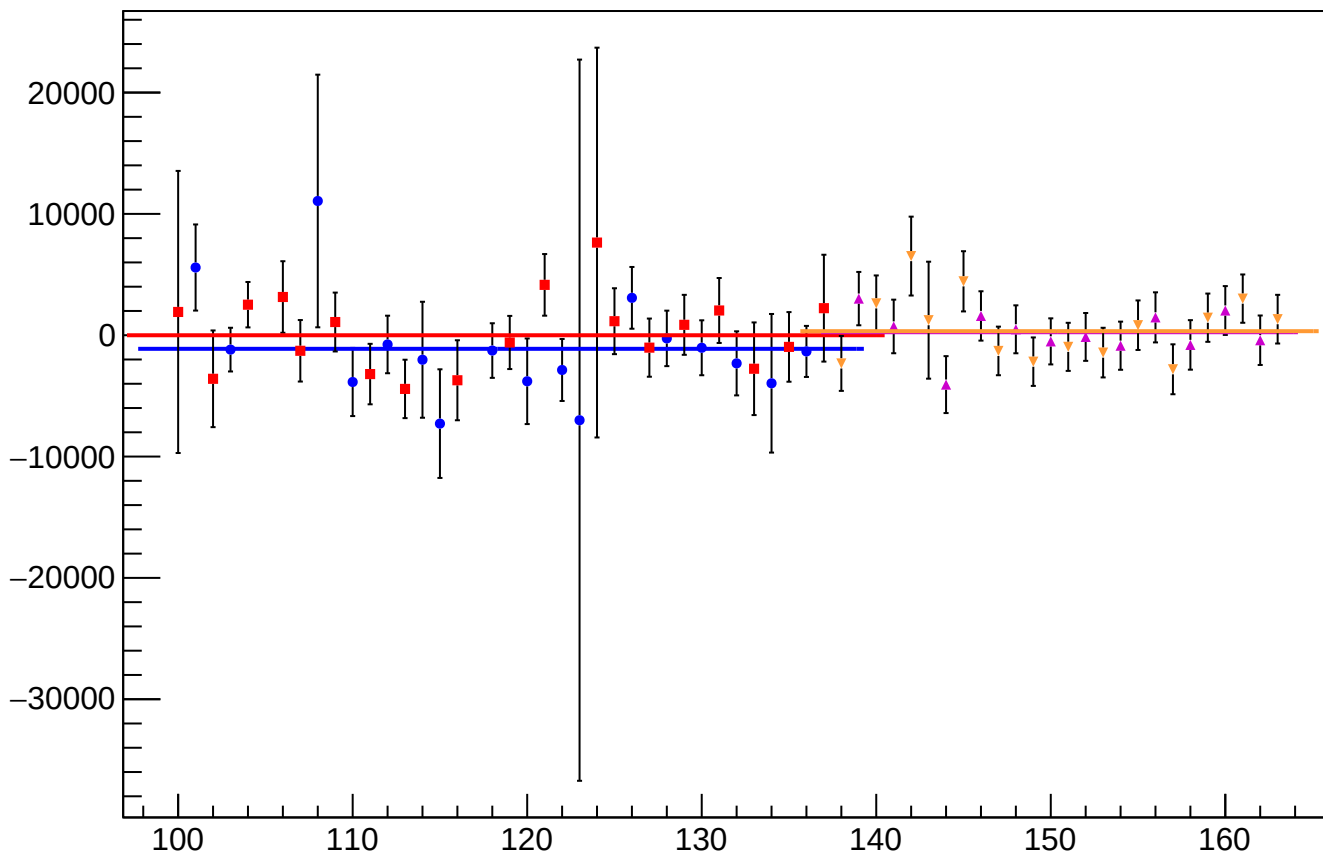
Left In:  $9456.781 \pm 2.167$   $\chi^2/\text{NDF}$ : 524601.0/11

+ sign  $8209.898 \pm 1.438$   $\chi^2/\text{NDF}$ : 1688933.9/30

All:  $8213.896 \pm 1.024$   $\chi^2/\text{NDF}$ : 3369776.2/63

- sign  $8218.012 \pm 1.459$   $\chi^2/\text{NDF}$ : 1680826.6/30

# dit\_asym\_at2\_dd\_mean vs Slug



Right In: -1120.496 $\pm$ 679.161  $\chi^2$ /NDF: 12.3/16

Left Out: 333.638 $\pm$ 586.402  $\chi^2$ /NDF: 17.0/13

Right Out: -2.515 $\pm$ 639.678  $\chi^2$ /NDF: 15.5/18

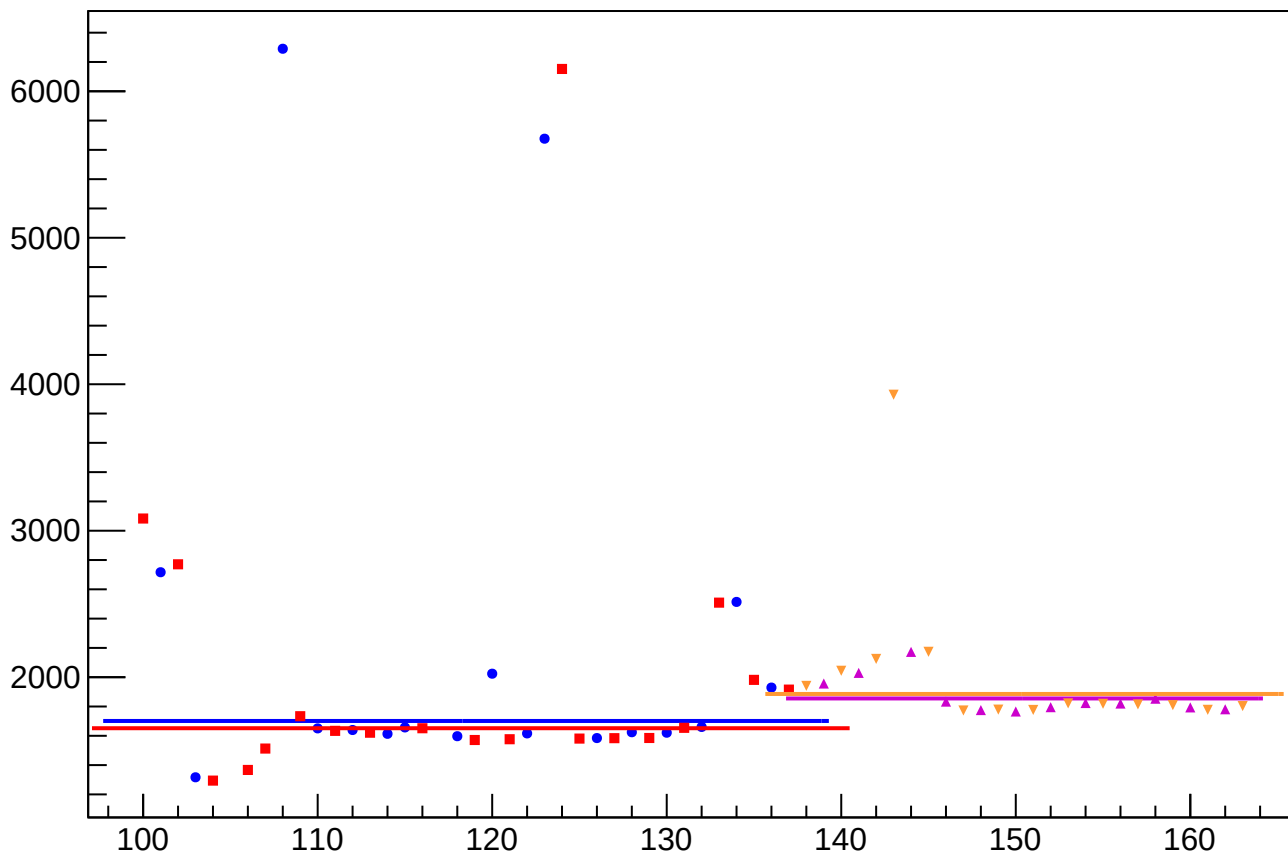
Left In: 247.639 $\pm$ 593.116  $\chi^2$ /NDF: 7.5/11

+ sign -287.418 $\pm$ 443.850  $\chi^2$ /NDF: 31.8/30

All: -73.452 $\pm$ 310.646  $\chi^2$ /NDF: 55.3/61

- sign 131.997 $\pm$ 434.927  $\chi^2$ /NDF: 23.0/30

dit\_asym\_at2\_dd\_rms vs Slug



Right In: 1701.283+/-0.480  $\chi^2$ /NDF: 778718.7/16

Left Out: 1885.578+/-0.415  $\chi^2$ /NDF: 444489.9/13

Right Out: 1651.734+/-0.452  $\chi^2$ /NDF: 588842.2/18

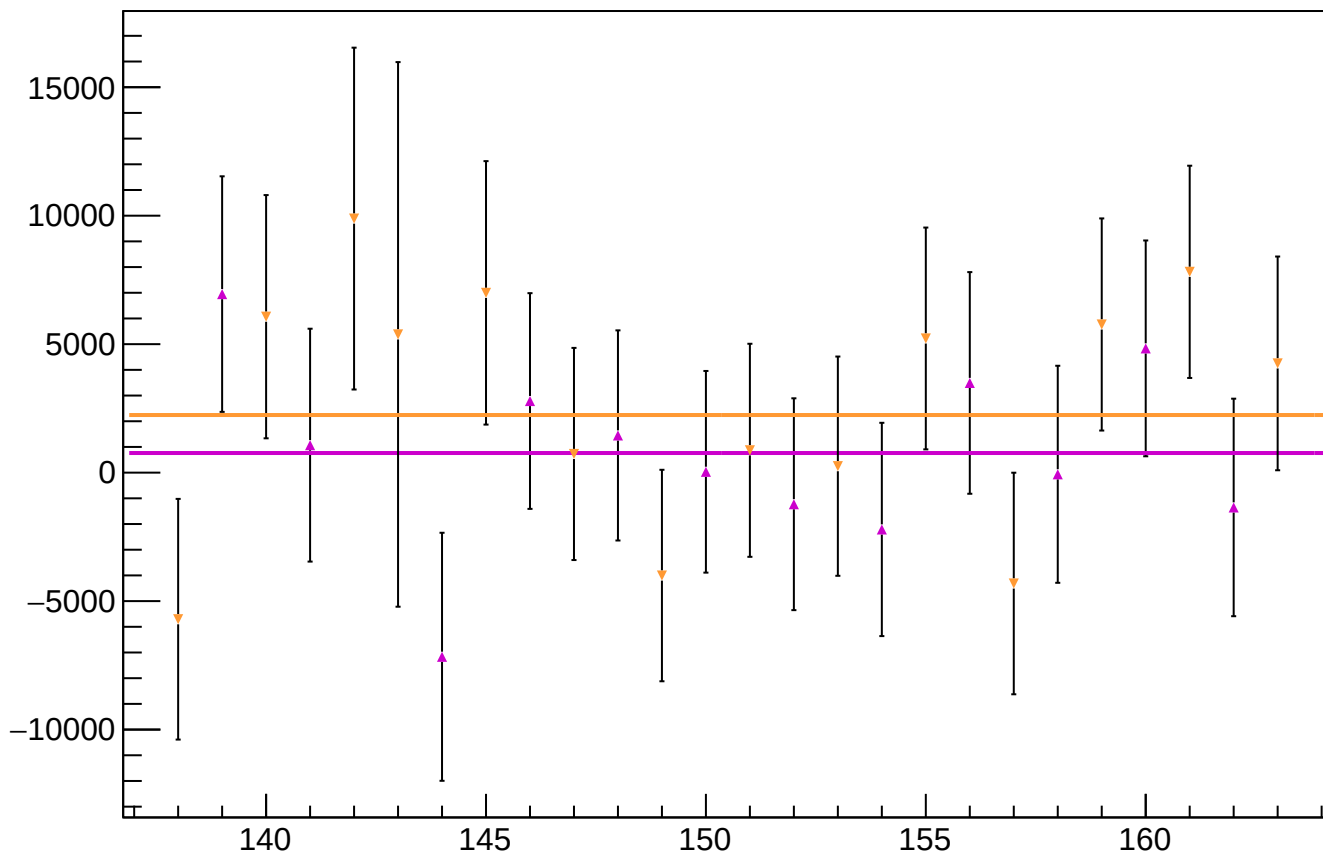
Left In: 1854.944+/-0.419  $\chi^2$ /NDF: 68748.3/11

+ sign 1806.866+/-0.314  $\chi^2$ /NDF: 1307580.4/30

All: 1783.469+/-0.220  $\chi^2$ /NDF: 2084595.5/63

- sign 1761.003+/-0.308  $\chi^2$ /NDF: 766121.2/30

# asym\_at2\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2241.991+/-1218.777  $\chi^2/\text{NDF}$ :14.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

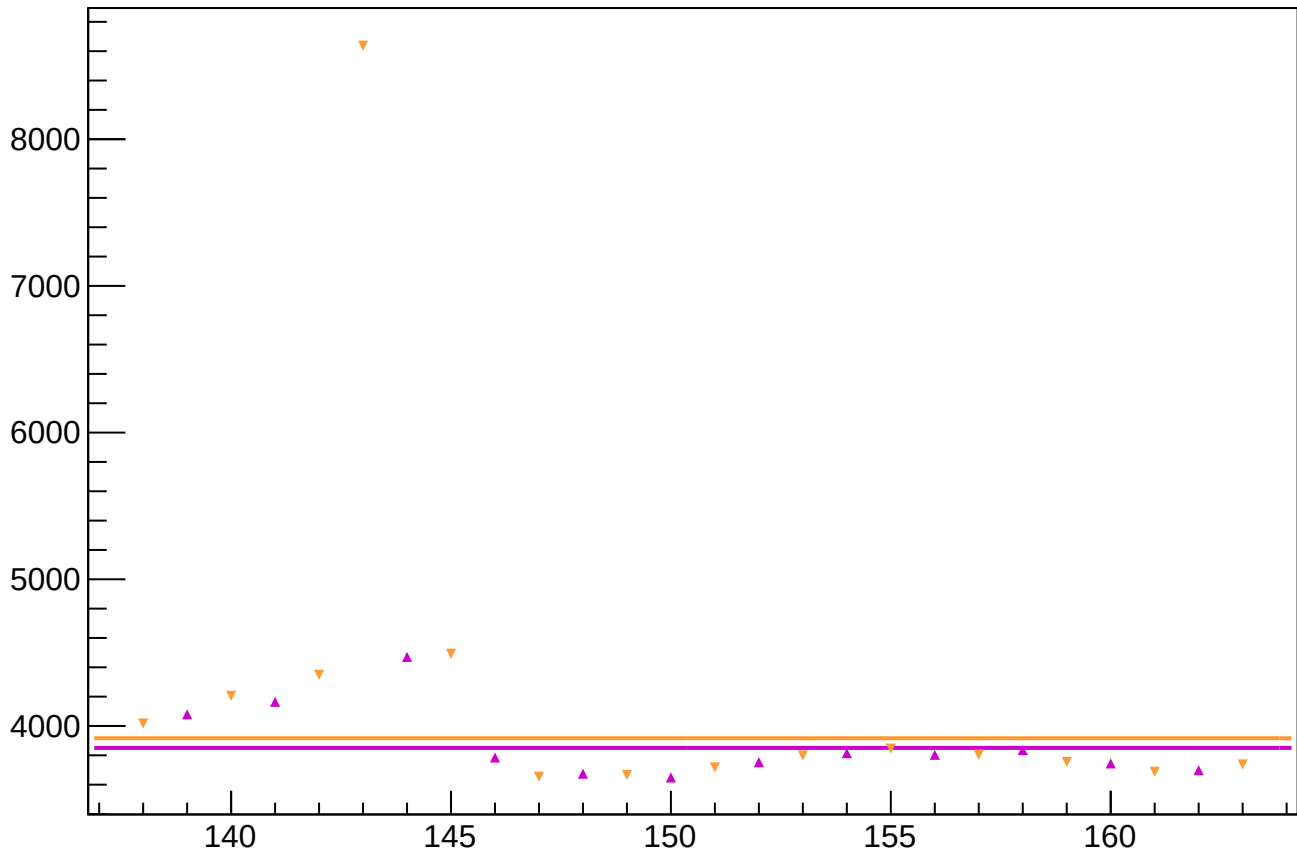
Left In: 763.530+/-1230.981  $\chi^2/\text{NDF}$ :7.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1510.125+/-866.088  $\chi^2/\text{NDF}$ : 22.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3916.408+/-0.862  $\chi^2/\text{NDF}$ : 475114.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

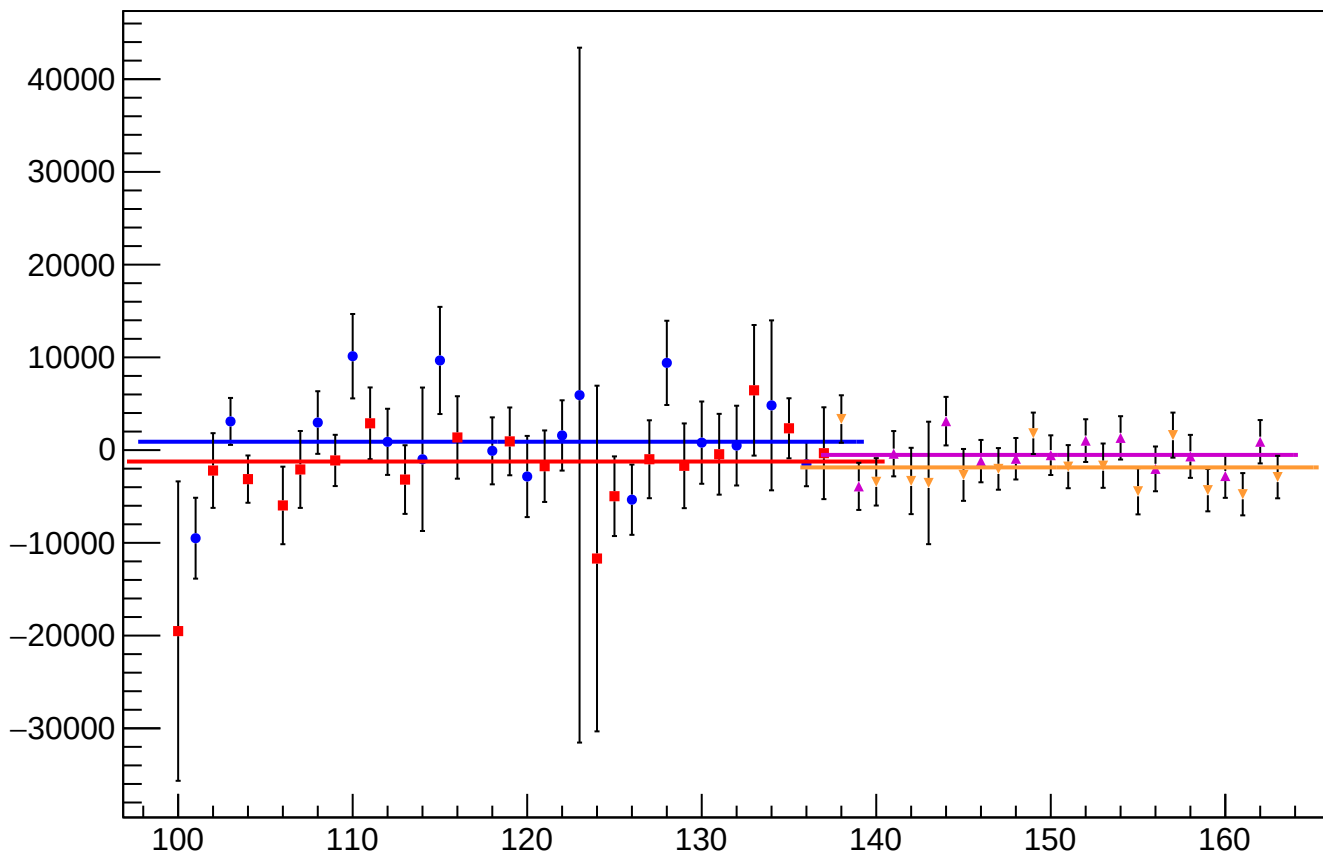
Left In: 3850.515+/-0.870  $\chi^2/\text{NDF}$ : 62443.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3883.790+/-0.612  $\chi^2/\text{NDF}$ : 540451.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_at2\_dd\_mean vs Slug



Right In:  $903.274 \pm 961.918$   $\chi^2/\text{NDF}$ : 21.6/16

Left Out:  $-1863.443 \pm 674.296$   $\chi^2/\text{NDF}$ : 13.7/13

Right Out:  $-1231.015 \pm 925.029$   $\chi^2/\text{NDF}$ : 8.9/18

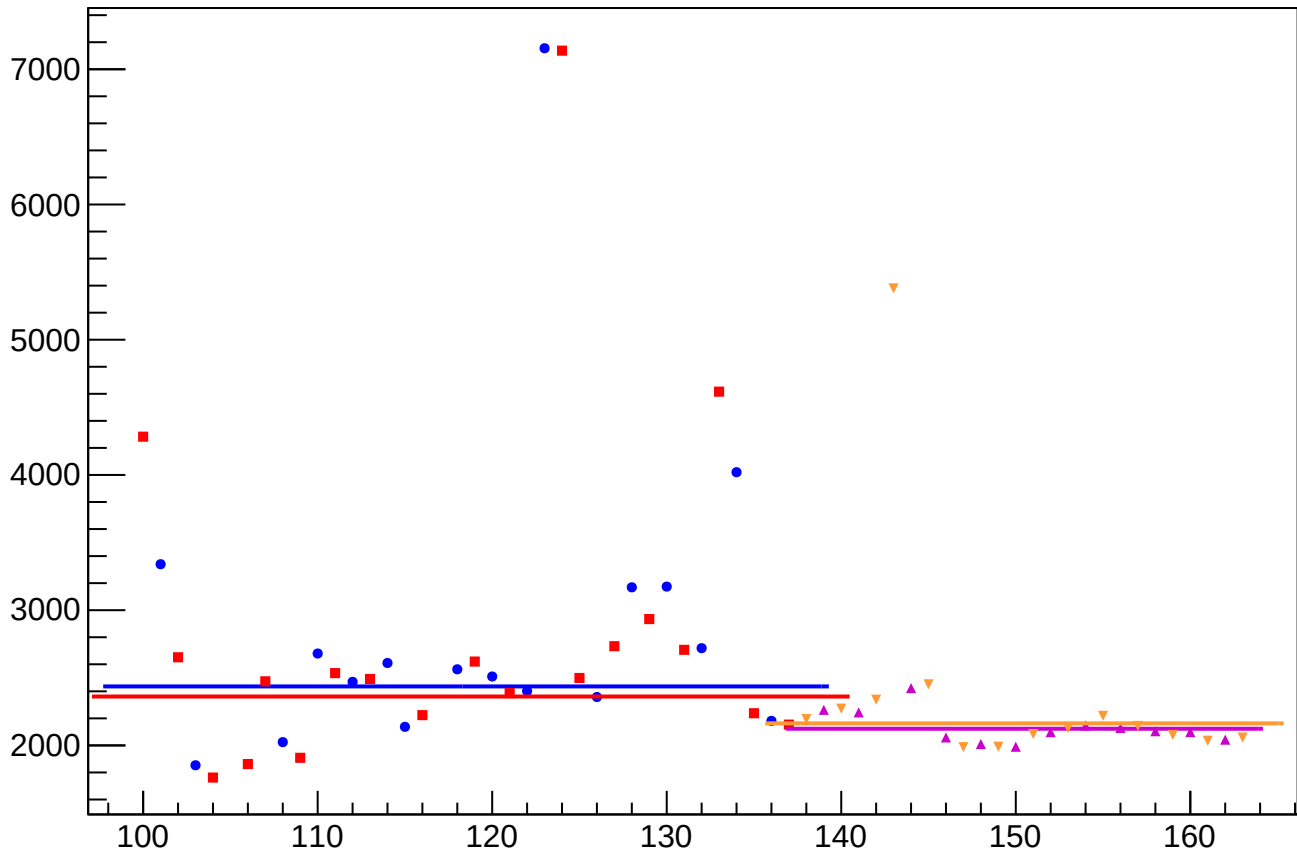
Left In:  $-517.229 \pm 678.688$   $\chi^2/\text{NDF}$ : 6.6/11

+ sign  $-951.855 \pm 552.147$   $\chi^2/\text{NDF}$ : 40.8/30

All:  $-858.599 \pm 388.667$   $\chi^2/\text{NDF}$ : 56.8/61

- sign  $-767.007 \pm 547.203$   $\chi^2/\text{NDF}$ : 15.9/30

# asym\_at2\_dd\_rms vs Slug



Right In: 2436.256+/-0.680  $\chi^2/\text{NDF}$ : 468552.3/16

Left Out: 2163.173+/-0.477  $\chi^2/\text{NDF}$ : 545894.4/13

Right Out: 2361.558+/-0.654  $\chi^2/\text{NDF}$ : 655845.9/18

Left In: 2123.355+/-0.480  $\chi^2/\text{NDF}$ : 54940.2/11

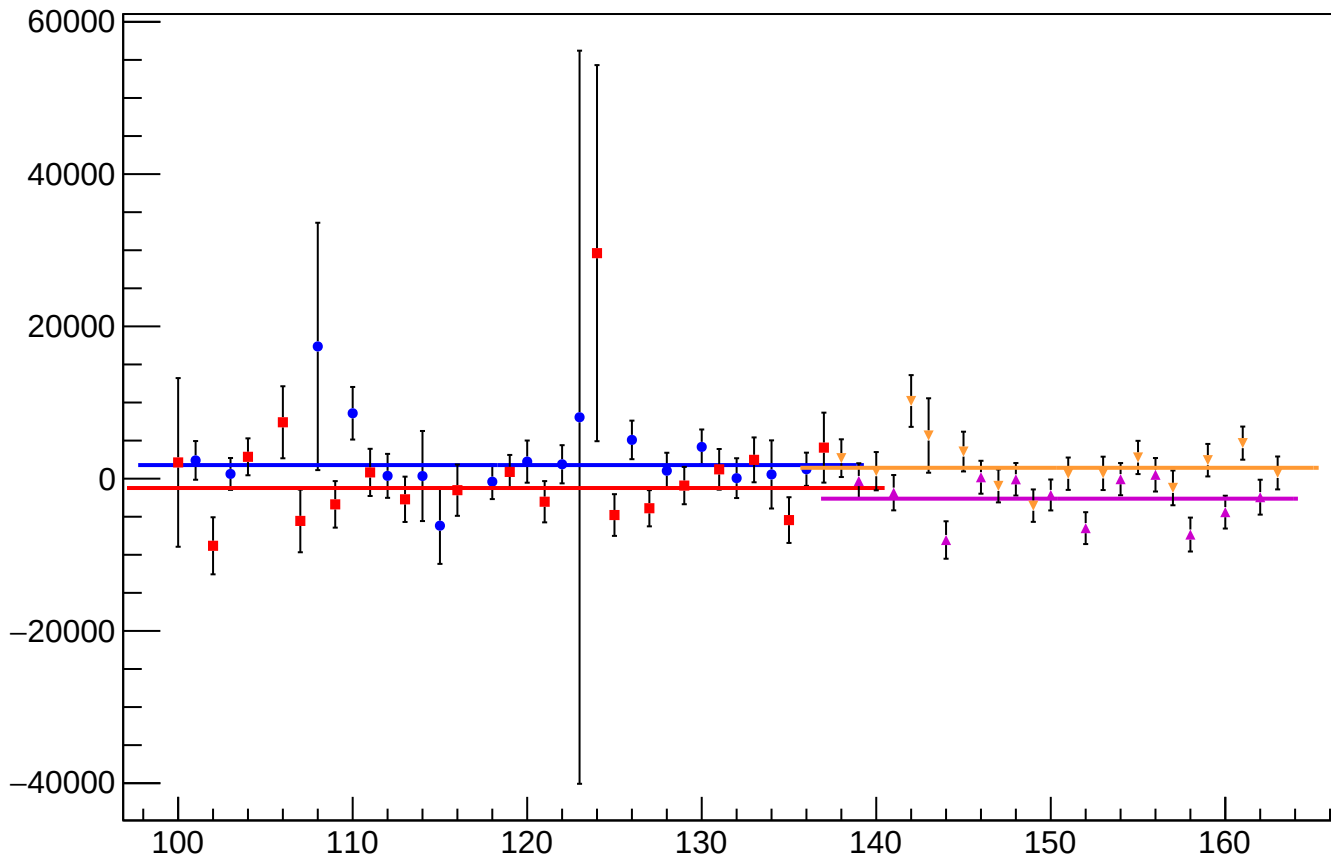
+ sign 2253.150+/-0.390  $\chi^2/\text{NDF}$ : 1122529.4/30

All: 2229.721+/-0.275  $\chi^2/\text{NDF}$ : 1926666.4/63

- sign 2206.711+/-0.387  $\chi^2/\text{NDF}$ : 796999.6/30



# dit\_asym\_atl\_avg\_mean vs Slug



Right In: 1783.505 $\pm$ 694.403  $\chi^2$ /NDF: 12.4/16

Left Out: 1424.899 $\pm$ 631.743  $\chi^2$ /NDF:19.5/13

Right Out: -1229.293 $\pm$ 708.144  $\chi^2$ /NDF: 24.2/18

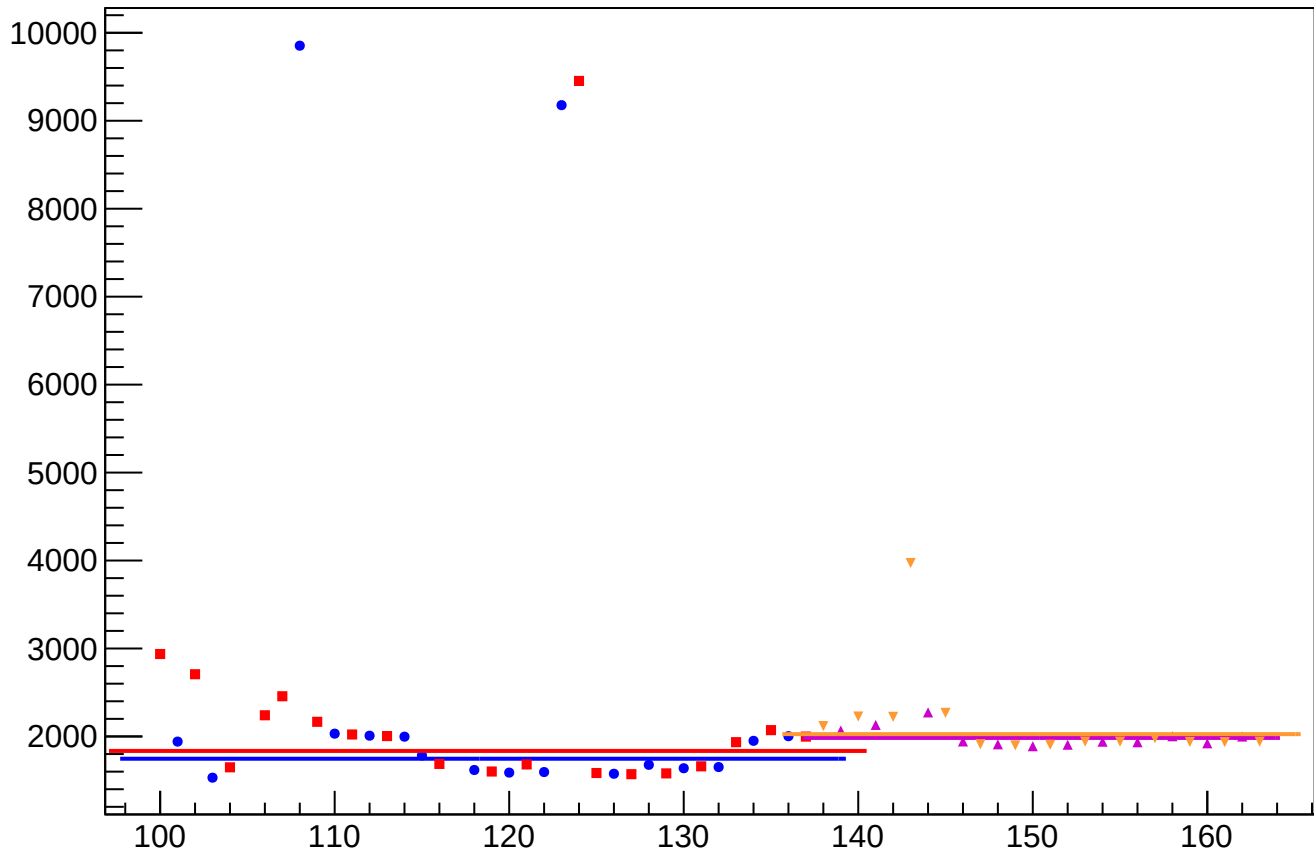
Left In: -2629.168 $\pm$ 635.512  $\chi^2$ /NDF:21.2/11

+ sign 1587.295 $\pm$ 467.295  $\chi^2$ /NDF: 32.1/30

All: -186.996 $\pm$ 332.418  $\chi^2$ /NDF: 108.9/61

- sign -2004.682 $\pm$ 472.975  $\chi^2$ /NDF: 47.6/30

# dit\_asym\_atl\_avg\_rms vs Slug



Right In: 1746.836 $\pm$ 0.491  $\chi^2$ /NDF: 682484.5/16

Left Out: 2026.318 $\pm$ 0.447  $\chi^2$ /NDF: 392019.8/13

Right Out: 1835.413 $\pm$ 0.500  $\chi^2$ /NDF: 550402.9/18

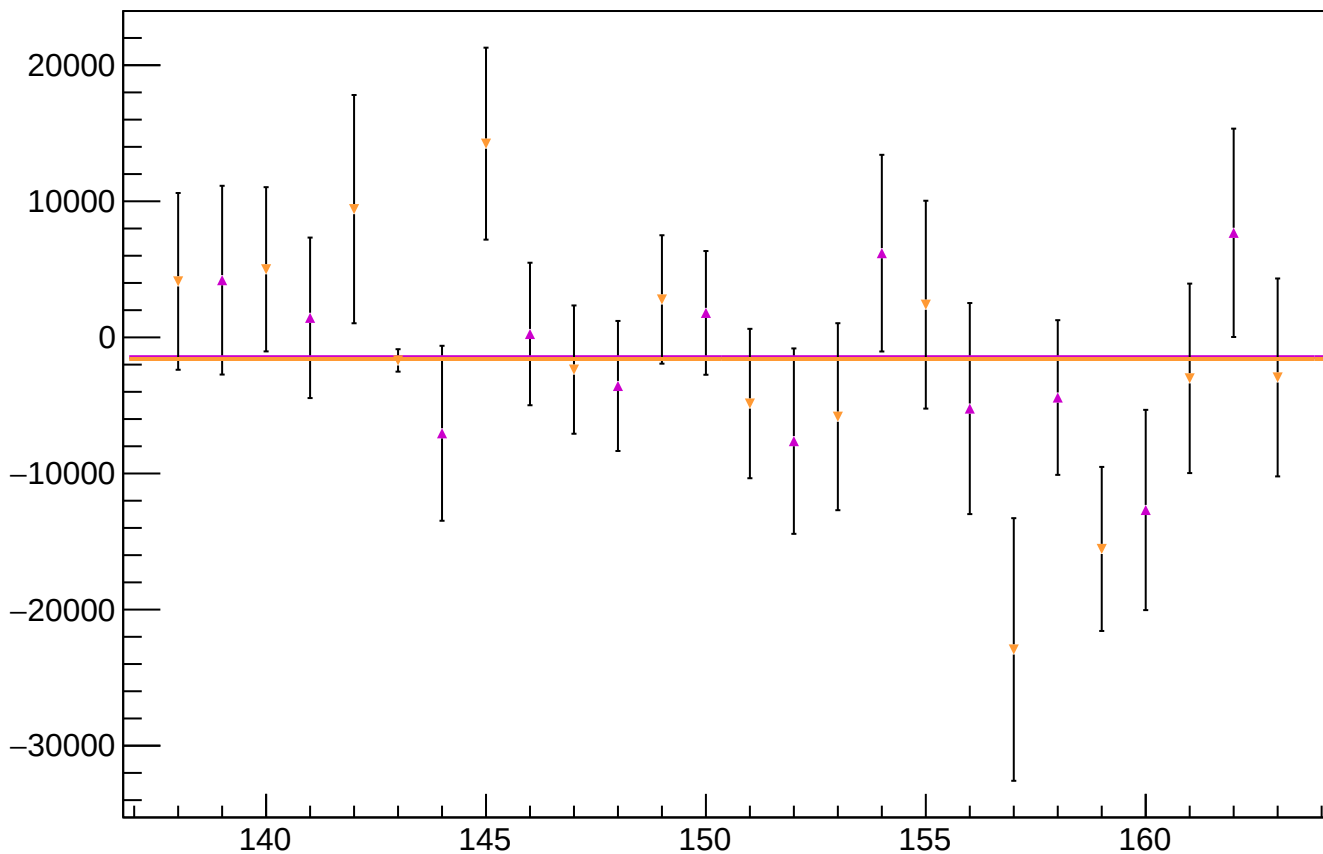
Left In: 1983.378 $\pm$ 0.449  $\chi^2$ /NDF: 52219.0/11

+ sign 1899.753 $\pm$ 0.330  $\chi^2$ /NDF: 1251765.9/30

All: 1908.417 $\pm$ 0.235  $\chi^2$ /NDF: 1904208.2/63

- sign 1917.283 $\pm$ 0.334  $\chi^2$ /NDF: 651051.3/30

# asym\_atl\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1587.803+/-746.082  $\chi^2/\text{NDF}$ :21.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

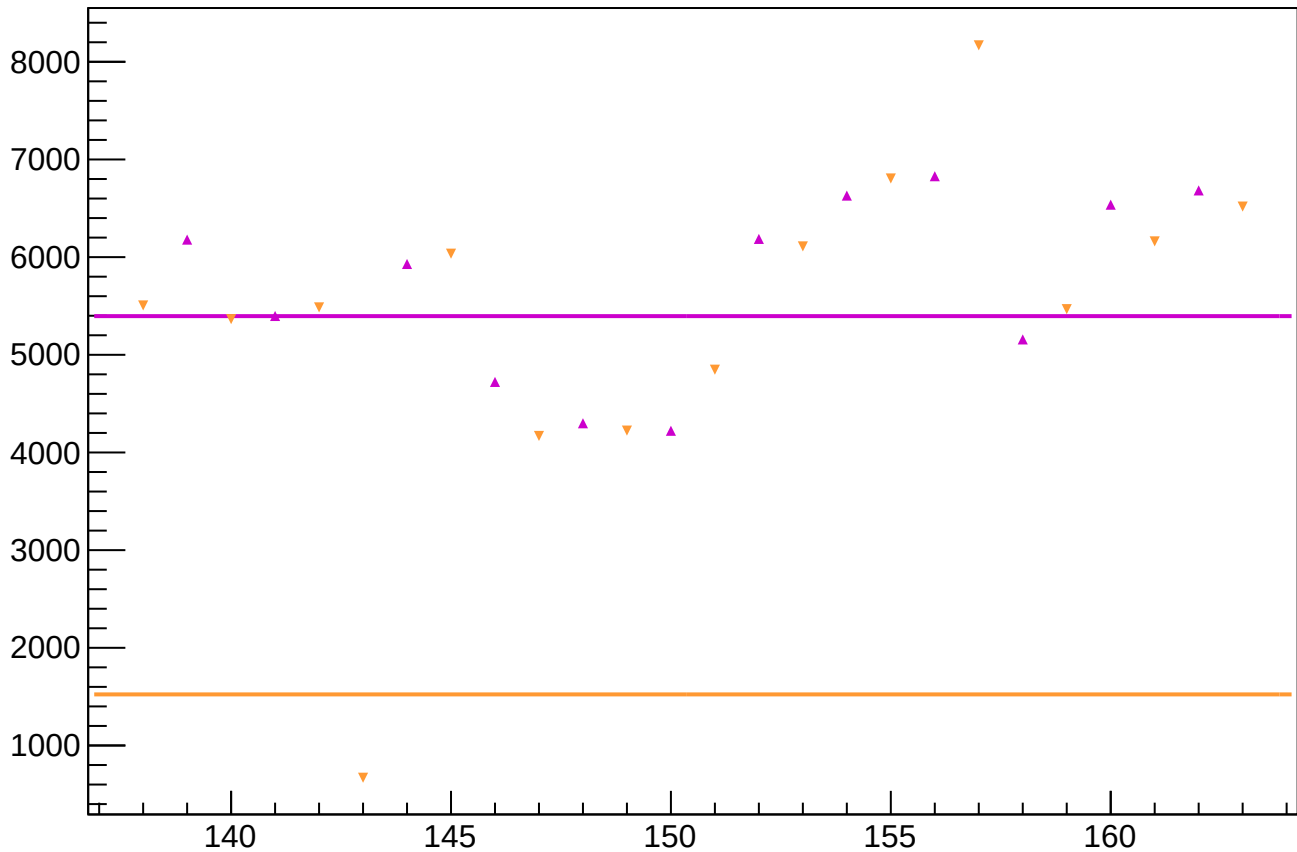
Left In: -1454.432+/-1750.625  $\chi^2/\text{NDF}$ :8.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1567.302+/-686.350  $\chi^2/\text{NDF}$ : 29.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1523.045+/-0.528  $\chi^2/\text{NDF}$ :12477171.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

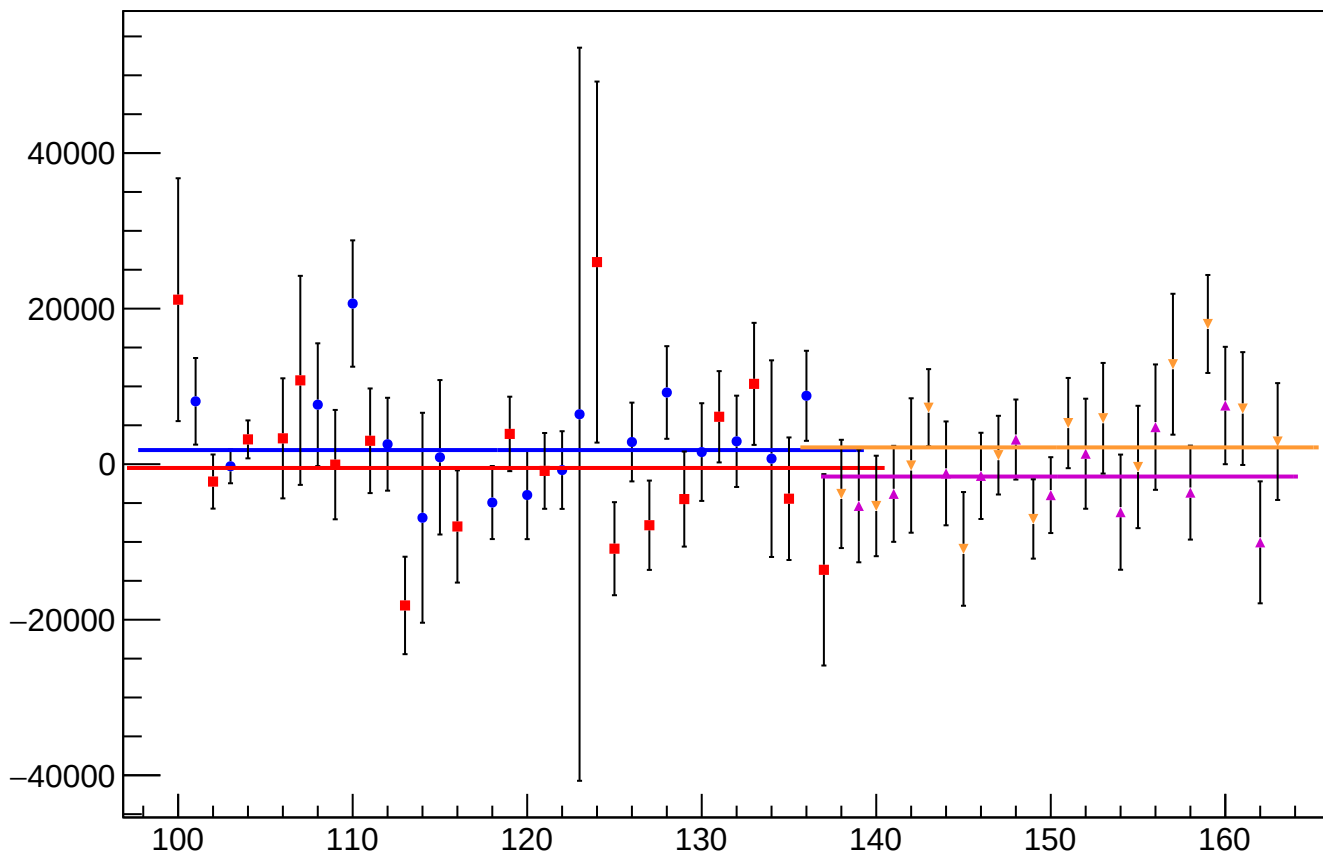
Left In: 5396.063+/-1.238  $\chi^2/\text{NDF}$ :572969.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2118.371+/-0.485  $\chi^2/\text{NDF}$ : 21334550.6/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_mean vs Slug



Right In: 1814.267+/-1301.312  $\chi^2/\text{NDF}$ : 15.0/16

Left Out: 2157.233+/-1728.712  $\chi^2/\text{NDF}$ : 18.6/13

Right Out: -488.360+/-1286.073  $\chi^2/\text{NDF}$ : 26.5/18

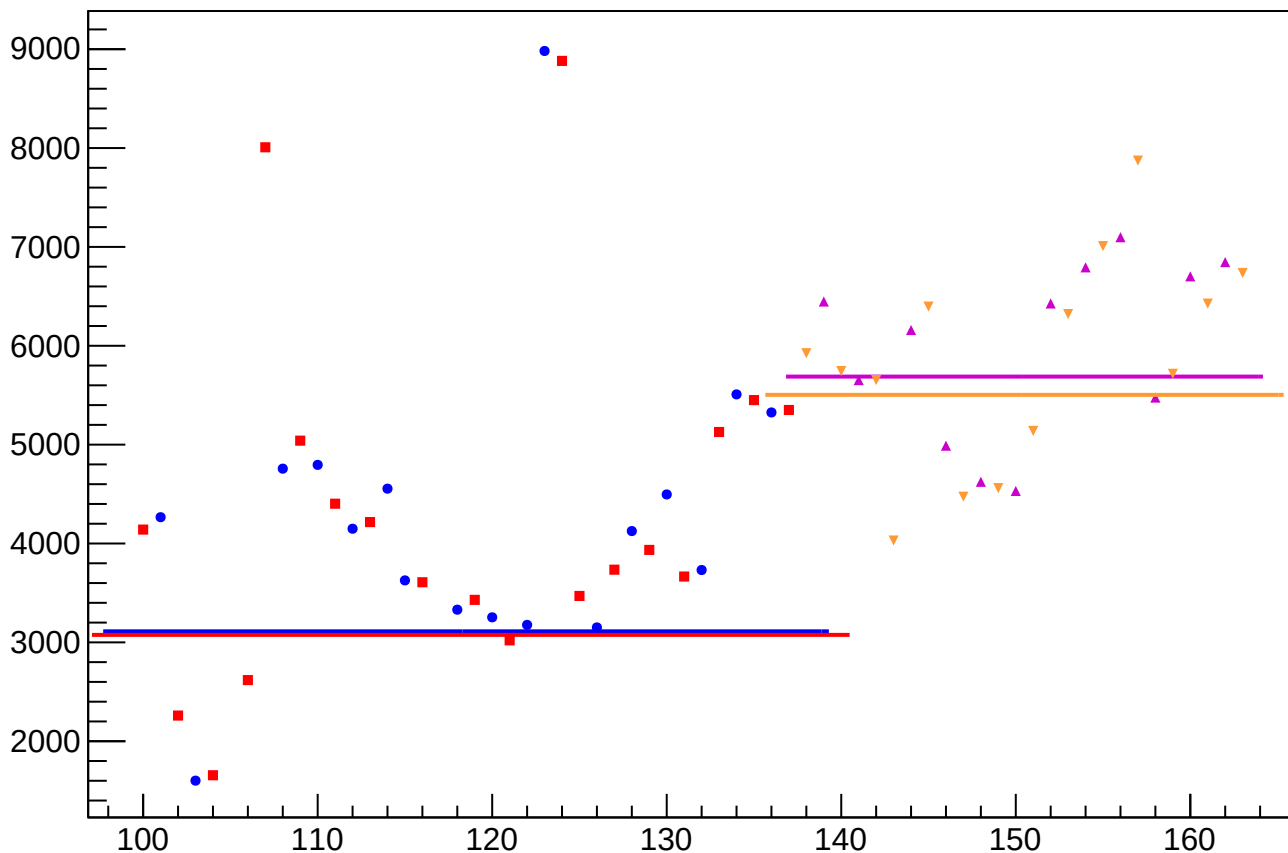
Left In: -1590.875+/-1841.596  $\chi^2/\text{NDF}$ : 5.4/11

+ sign 1938.317+/-1039.669  $\chi^2/\text{NDF}$ : 33.6/30

All: 563.894+/-740.314  $\chi^2/\text{NDF}$ : 69.3/61

- sign -849.782+/-1054.410  $\chi^2/\text{NDF}$ : 32.1/30

# asym\_atl\_avg\_rms vs Slug



Right In: 3111.560+/-0.920  $\chi^2$ /NDF: 1878991.5/16

Left Out: 5503.687+/-1.222  $\chi^2$ /NDF: 701269.9/13

Right Out: 3075.800+/-0.896  $\chi^2$ /NDF: 2009557.4/18

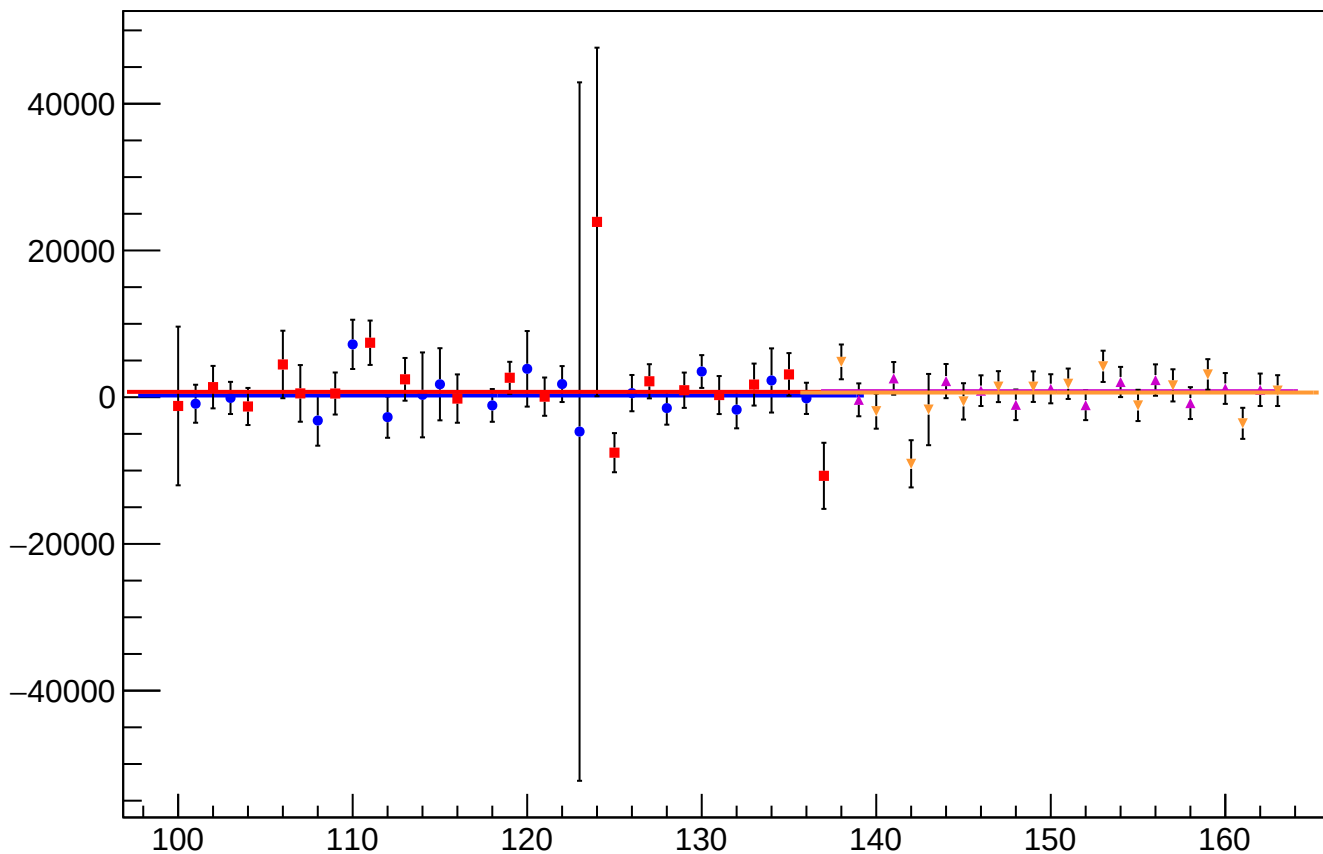
Left In: 5688.319+/-1.302  $\chi^2$ /NDF: 471511.9/11

+ sign 3976.779+/-0.735  $\chi^2$ /NDF: 5024715.2/30

All: 3946.282+/-0.521  $\chi^2$ /NDF: 10240476.2/6

- sign 3915.526+/-0.738  $\chi^2$ /NDF: 5212304.6/30

# dit\_asym\_atl\_dd\_mean vs Slug



Right In: 232.323+/-686.786  $\chi^2/\text{NDF}$ : 11.5/16

Left Out: 635.319+/-611.748  $\chi^2/\text{NDF}$ : 23.5/13

Right Out: 726.169+/-684.175  $\chi^2/\text{NDF}$ : 25.8/18

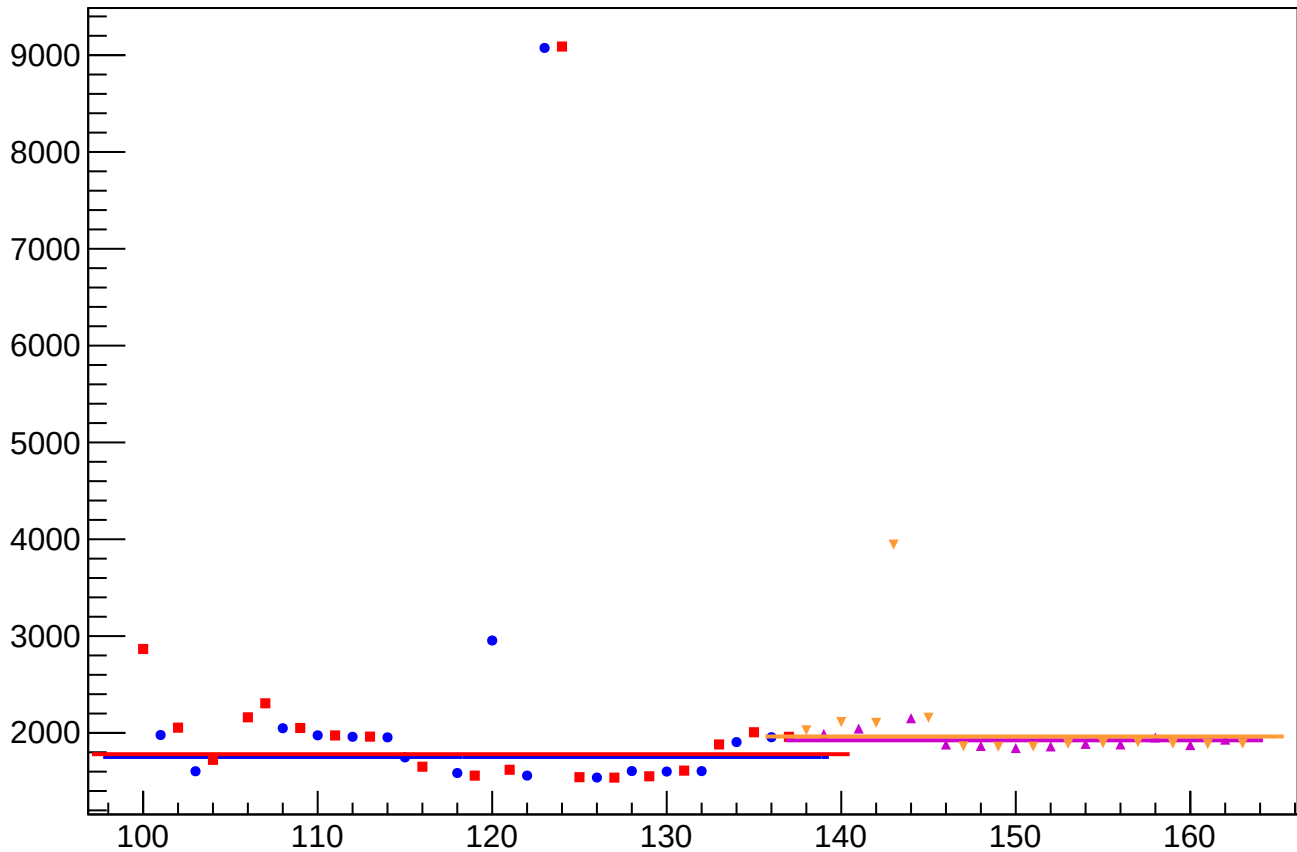
Left In: 817.710+/-616.056  $\chi^2/\text{NDF}$ : 4.4/11

+ sign 457.031+/-456.806  $\chi^2/\text{NDF}$ : 35.2/30

All: 616.525+/-323.366  $\chi^2/\text{NDF}$ : 65.7/61

- sign 776.722+/-457.812  $\chi^2/\text{NDF}$ : 30.2/30

# dit\_asym\_atl\_dd\_rms vs Slug



Right In: 1751.850+/-0.486  $\chi^2/\text{NDF}$ : 300898.3/16

Left Out: 1962.945+/-0.433  $\chi^2/\text{NDF}$ : 387139.7/13

Right Out: 1780.209+/-0.483  $\chi^2/\text{NDF}$ : 428327.5/18

Left In: 1923.629+/-0.436  $\chi^2/\text{NDF}$ : 37343.6/11

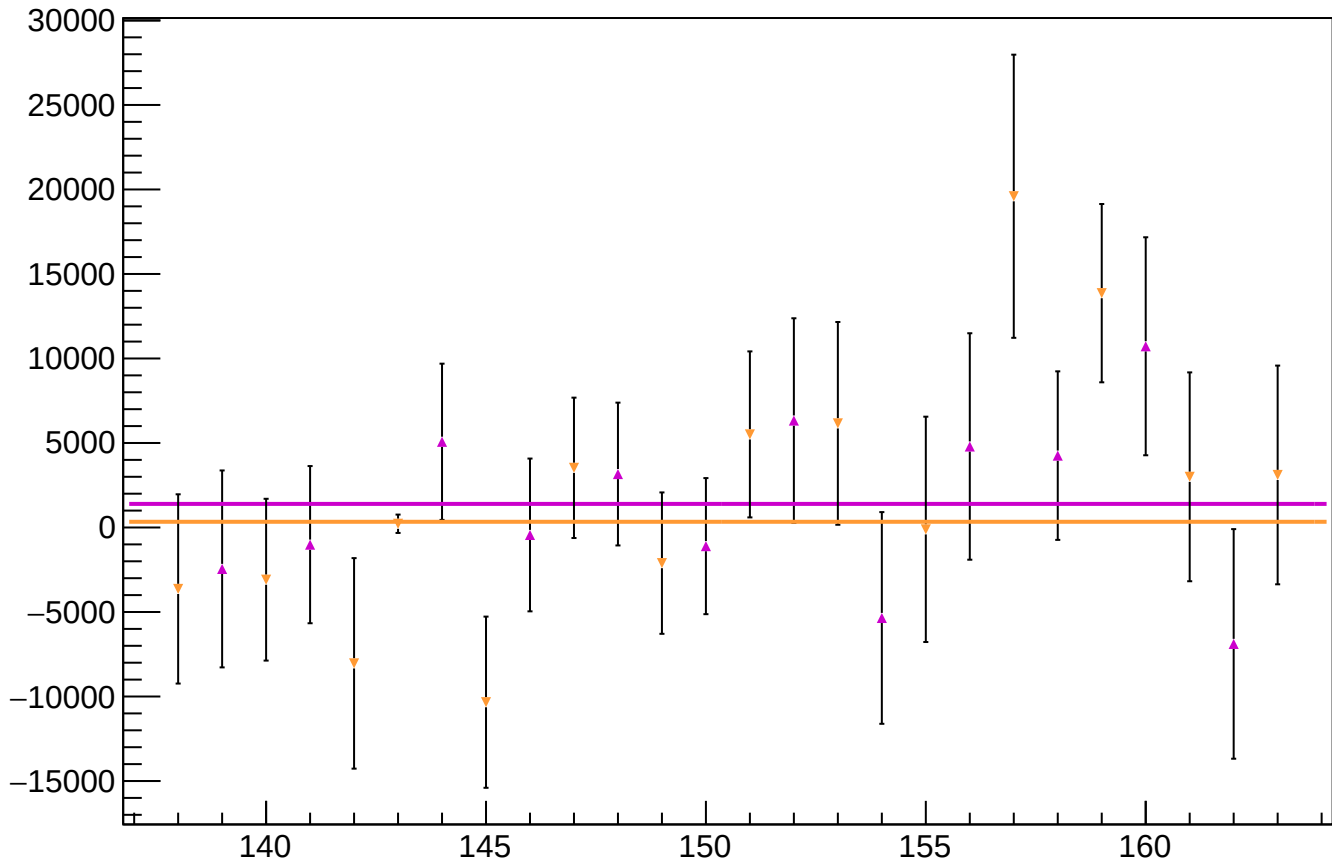
+ sign 1869.556+/-0.323  $\chi^2/\text{NDF}$ : 793394.7/30

All: 1864.435+/-0.229  $\chi^2/\text{NDF}$ : 1308188.3/63

- sign 1859.299+/-0.323  $\chi^2/\text{NDF}$ : 514290.2/30



# asym\_atl\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 338.067+/-510.310  $\chi^2/\text{NDF}$ : 22.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

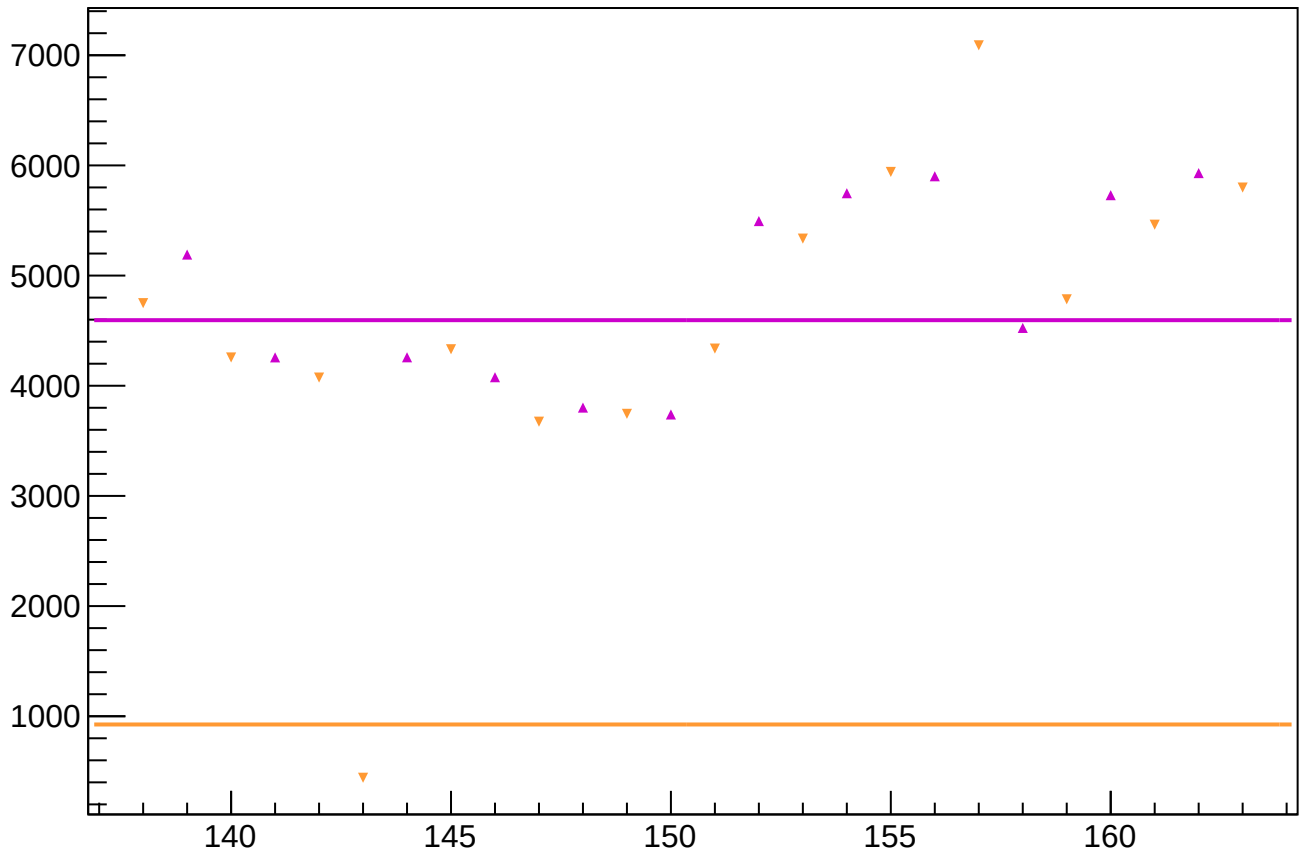
Left In: 1395.811+/-1490.334  $\chi^2/\text{NDF}$ : 8.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 449.069+/-482.791  $\chi^2/\text{NDF}$ : 31.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 925.304+/-0.361  $\chi^2/\text{NDF}$ :14234773.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

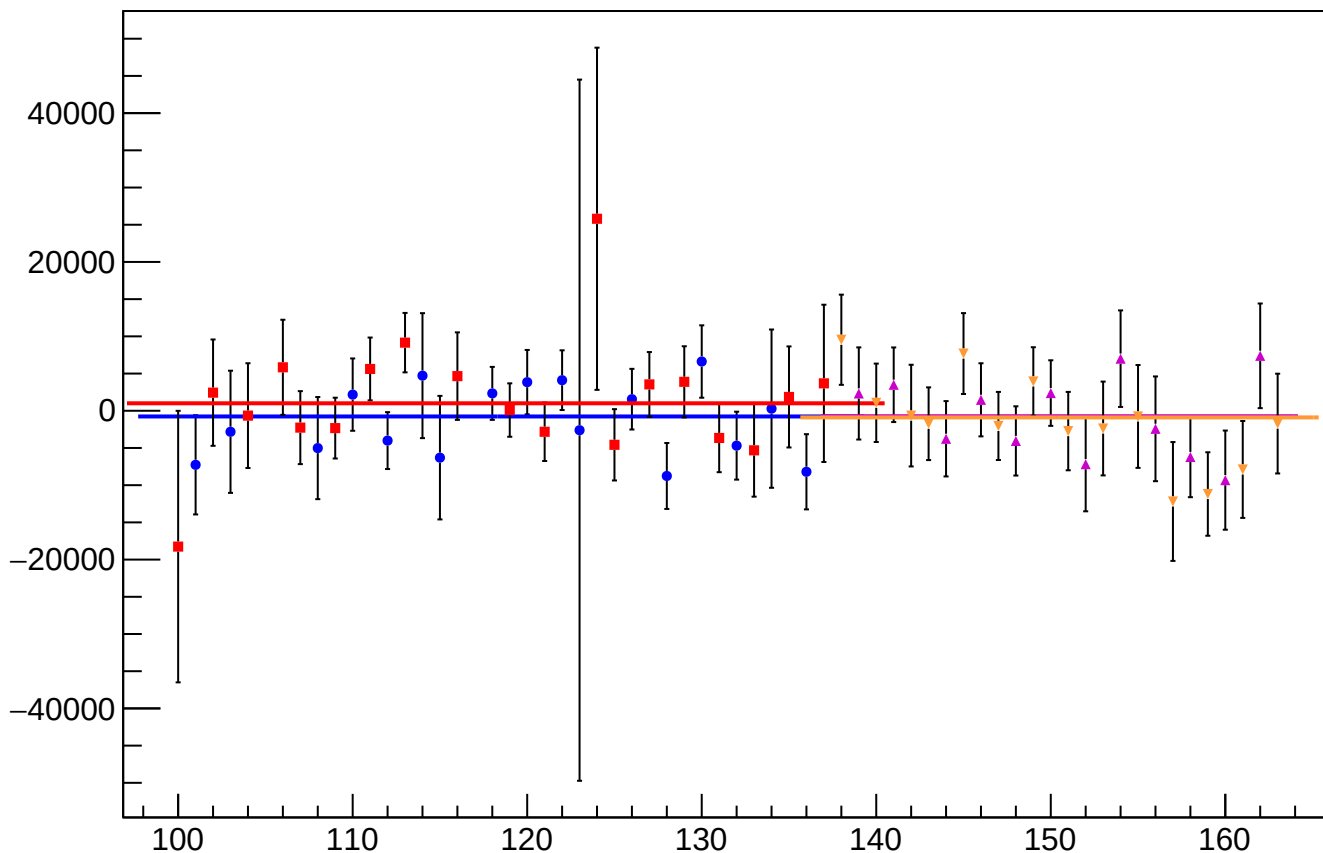
Left In: 4595.214+/-1.054  $\chi^2/\text{NDF}$ :556774.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1310.434+/-0.341  $\chi^2/\text{NDF}$ : 25646420.8/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_mean vs Slug



Right In:  $-765.107 \pm 1247.704$   $\chi^2/\text{NDF}$ : 15.5/16

Left Out:  $-893.062 \pm 1523.313$   $\chi^2/\text{NDF}$ : 13.5/13

Right Out:  $1004.792 \pm 1191.116$   $\chi^2/\text{NDF}$ : 15.0/18

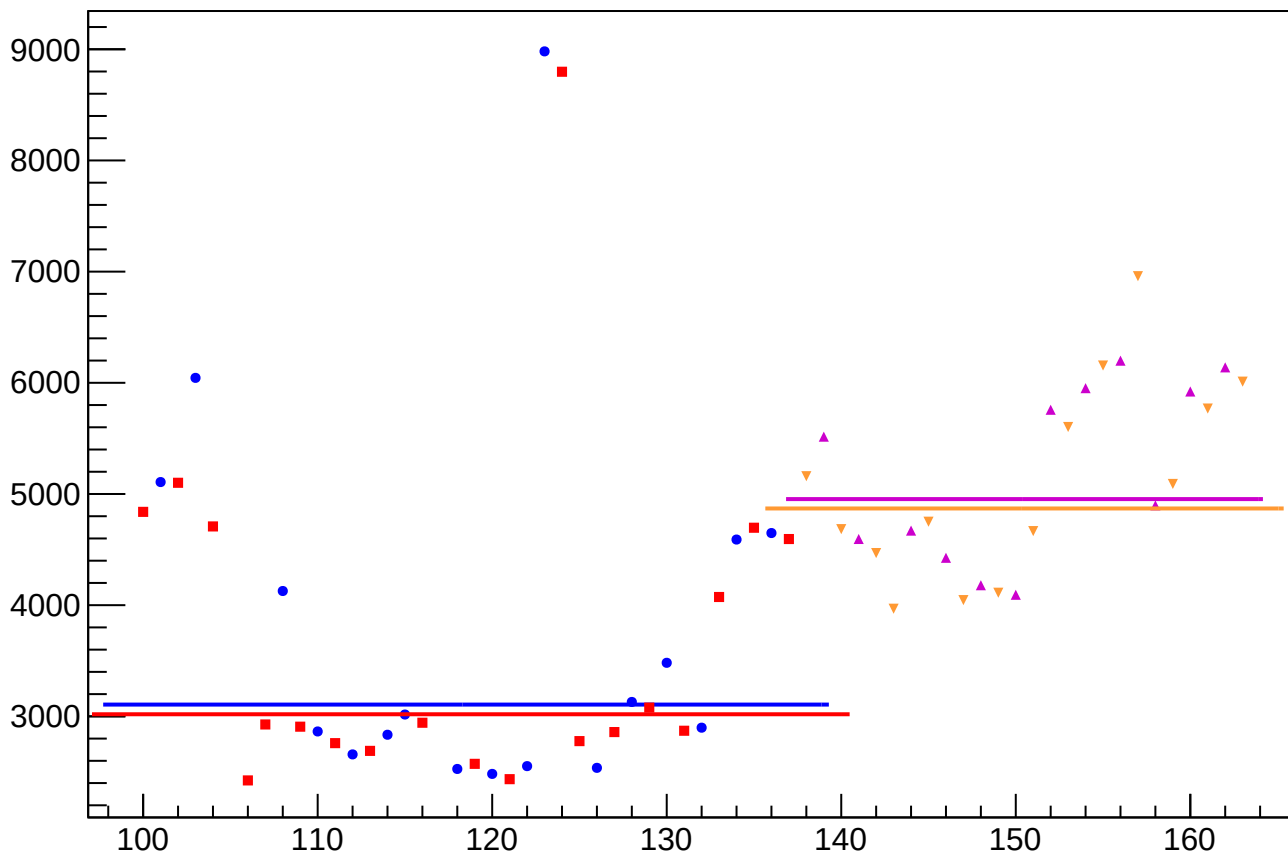
Left In:  $-731.061 \pm 1601.556$   $\chi^2/\text{NDF}$ : 9.1/11

+ sign  $-816.482 \pm 965.248$   $\chi^2/\text{NDF}$ : 29.0/30

All:  $-209.007 \pm 679.156$   $\chi^2/\text{NDF}$ : 54.7/61

- sign  $386.590 \pm 955.764$   $\chi^2/\text{NDF}$ : 24.8/30

# asym\_atl\_dd\_rms vs Slug



Right In: 3105.849+/-0.882  $\chi^2/\text{NDF}$ : 959826.4/16

Left Out: 4869.719+/-1.077  $\chi^2/\text{NDF}$ : 537508.9/13

Right Out: 3018.781+/-0.832  $\chi^2/\text{NDF}$ : 794275.0/18

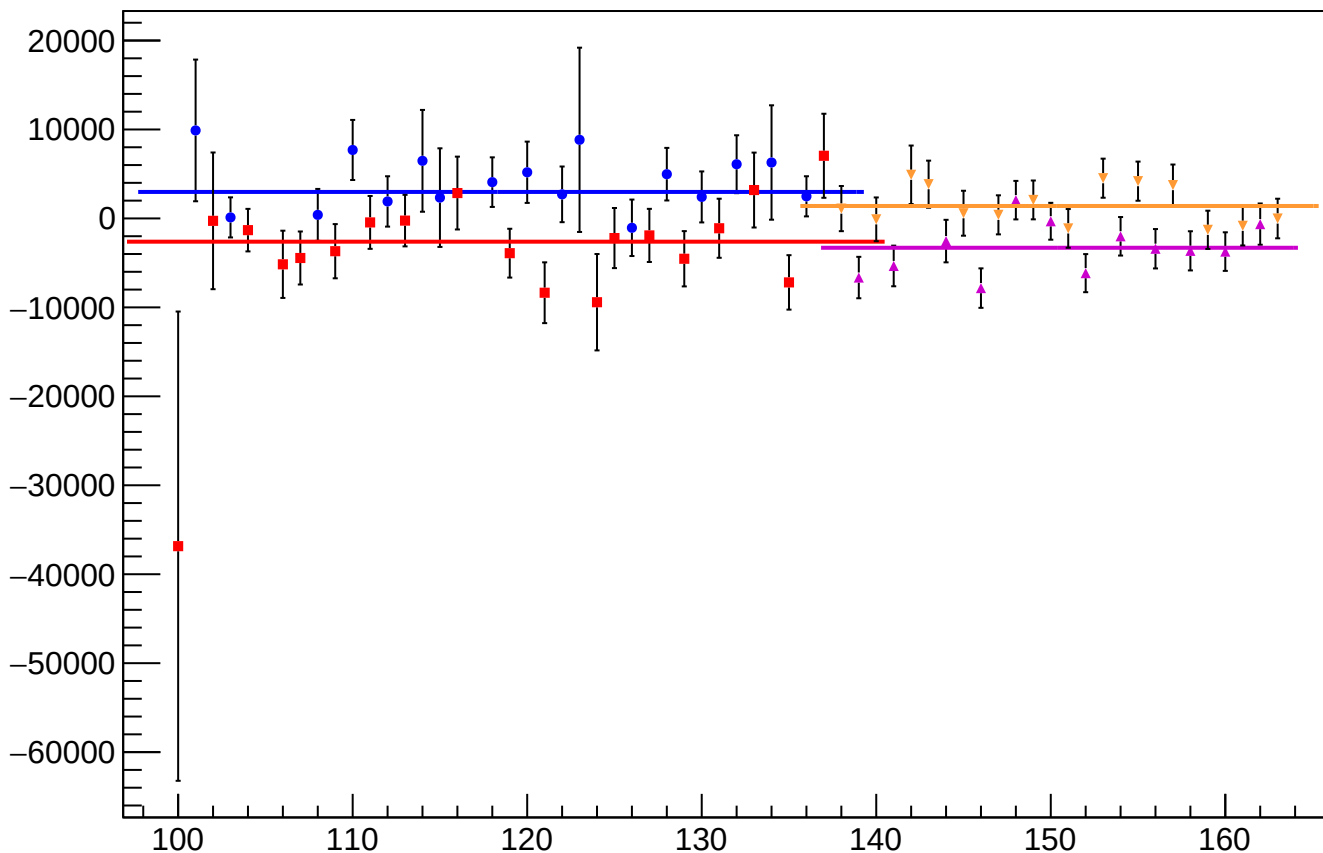
Left In: 4954.165+/-1.132  $\chi^2/\text{NDF}$ : 429069.4/11

+ sign 3814.062+/-0.683  $\chi^2/\text{NDF}$ : 3102210.6/30

All: 3754.459+/-0.478  $\chi^2/\text{NDF}$ : 6237763.0/63

- sign 3696.960+/-0.670  $\chi^2/\text{NDF}$ : 3120569.8/30

# dit\_asym\_atr\_avg\_mean vs Slug



Right In: 2978.445 $\pm$ 795.398  $\chi^2$ /NDF: 9.9/16

Left Out: 1398.722 $\pm$ 624.424  $\chi^2$ /NDF: 11.8/13

Right Out: -2613.881 $\pm$ 783.228  $\chi^2$ /NDF: 19.6/18

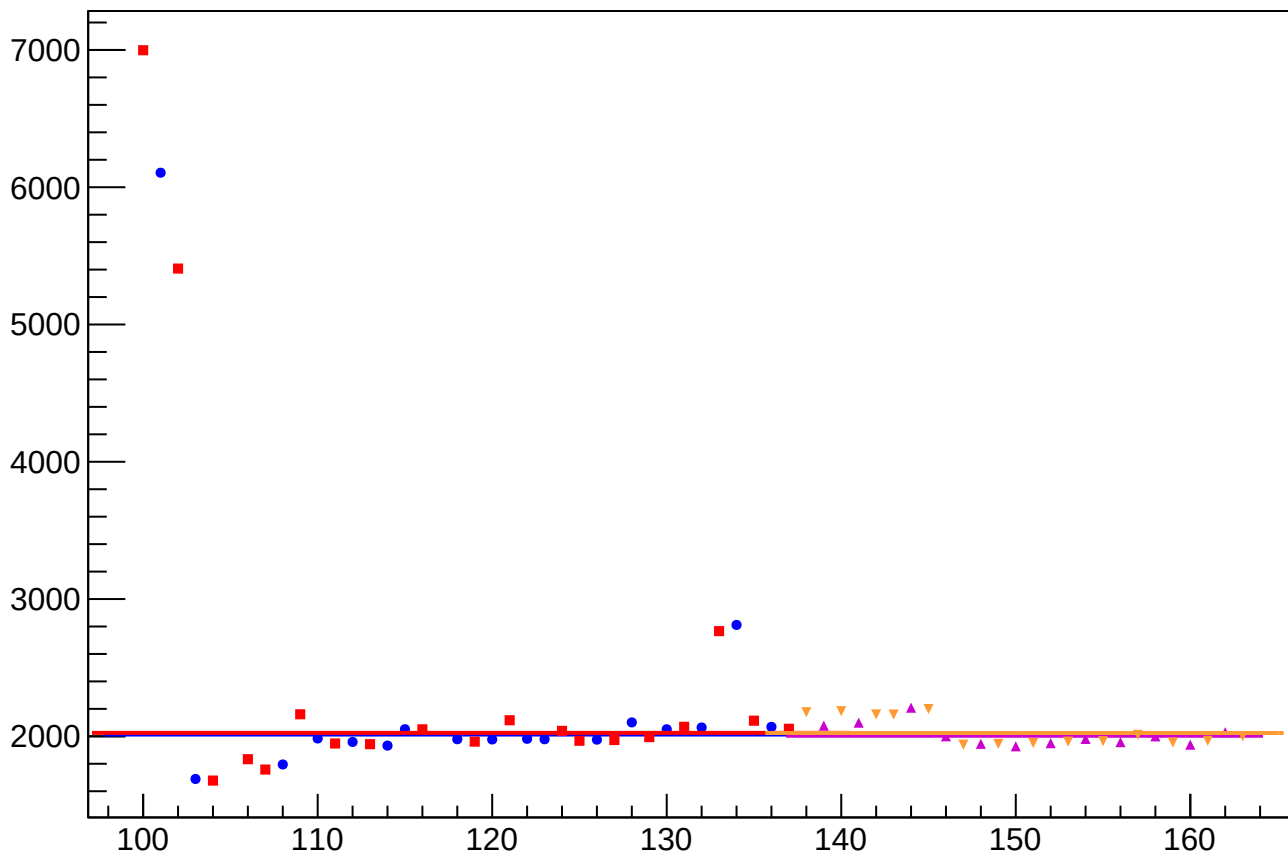
Left In: -3298.406 $\pm$ 640.141  $\chi^2$ /NDF: 18.8/11

+ sign 2001.074 $\pm$ 491.156  $\chi^2$ /NDF: 24.1/30

All: -488.695 $\pm$ 348.879  $\chi^2$ /NDF: 114.8/61

- sign -3024.268 $\pm$ 495.653  $\chi^2$ /NDF: 38.9/30

# dit\_asym\_atr\_avg\_rms vs Slug



Right In: 2012.945 $\pm$ 0.562  $\chi^2$ /NDF: 617707.4/16

Left Out: 2024.157 $\pm$ 0.442  $\chi^2$ /NDF: 48168.2/13

Right Out: 2025.070 $\pm$ 0.554  $\chi^2$ /NDF: 597422.5/18

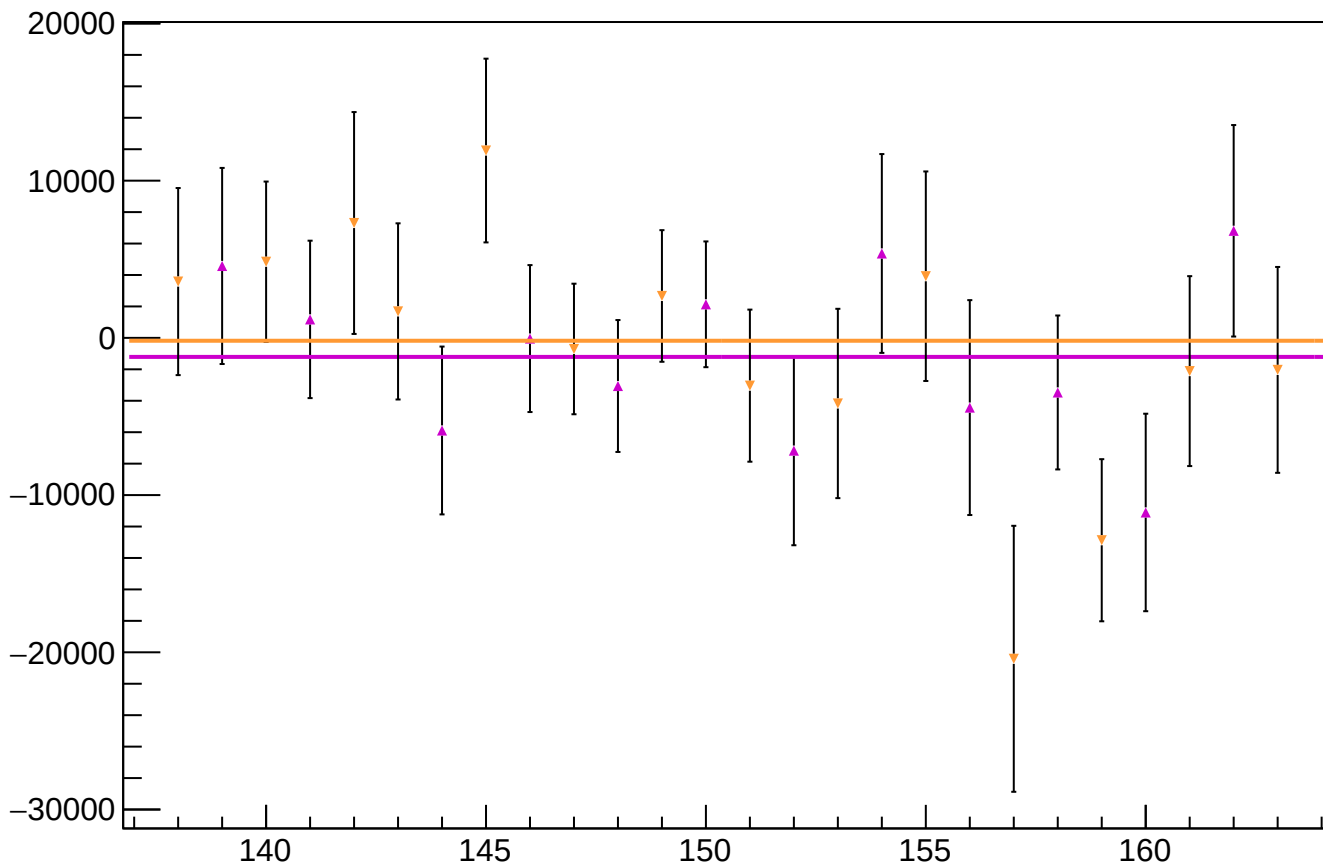
Left In: 2004.194 $\pm$ 0.453  $\chi^2$ /NDF: 28783.2/11

+ sign 2019.882 $\pm$ 0.347  $\chi^2$ /NDF: 666121.5/30

All: 2016.253 $\pm$ 0.247  $\chi^2$ /NDF: 1293399.7/63

- sign 2012.558 $\pm$ 0.350  $\chi^2$ /NDF: 627057.8/30

# asym\_atr\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -182.814+/-1477.417  $\chi^2/\text{NDF}$ : 20.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

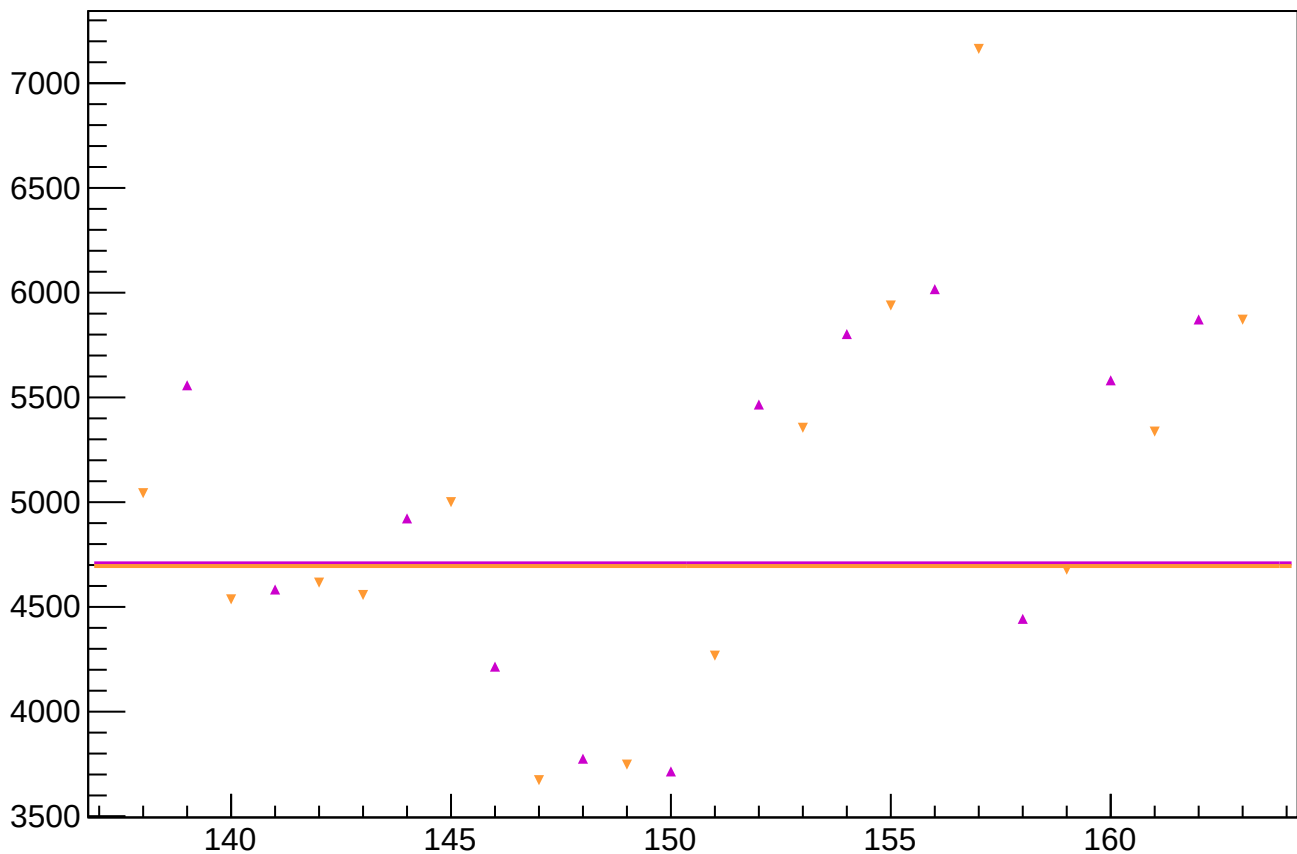
Left In: -1210.121+/-1526.726  $\chi^2/\text{NDF}$ : 9.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -679.610+/-1061.696  $\chi^2/\text{NDF}$ : 29.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4695.179+/-1.045  $\chi^2/\text{NDF}$ : 606177.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4707.865+/-1.080  $\chi^2/\text{NDF}$ : 555536.2/11

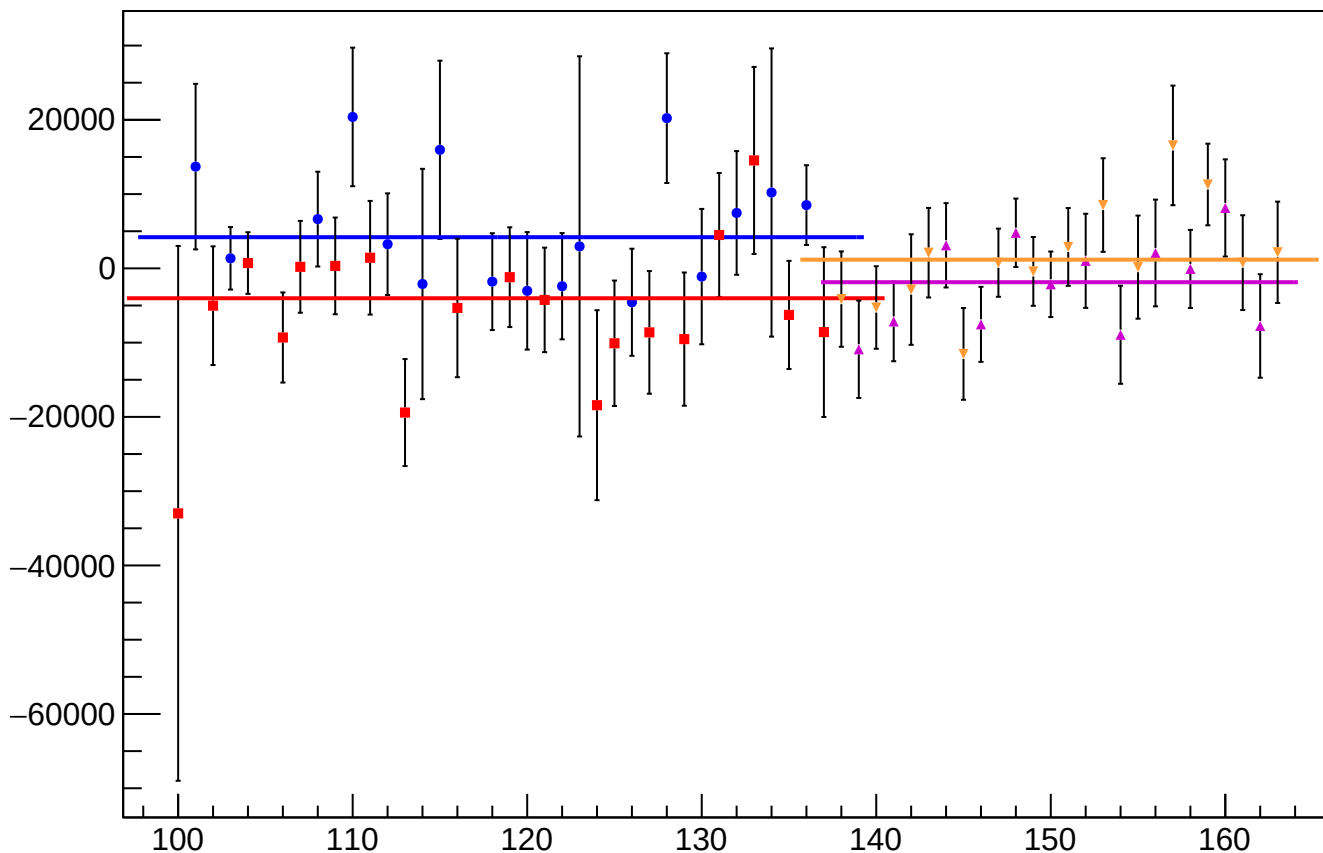
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4701.313+/-0.751  $\chi^2/\text{NDF}$ : 1161785.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr\_avg\_mean vs Slug



Right In: 4198.770+/-1857.803  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: 1173.831+/-1582.172  $\chi^2/\text{NDF}$ : 15.2/13

Right Out: -4023.682+/-1725.187  $\chi^2/\text{NDF}$ : 14.8/18

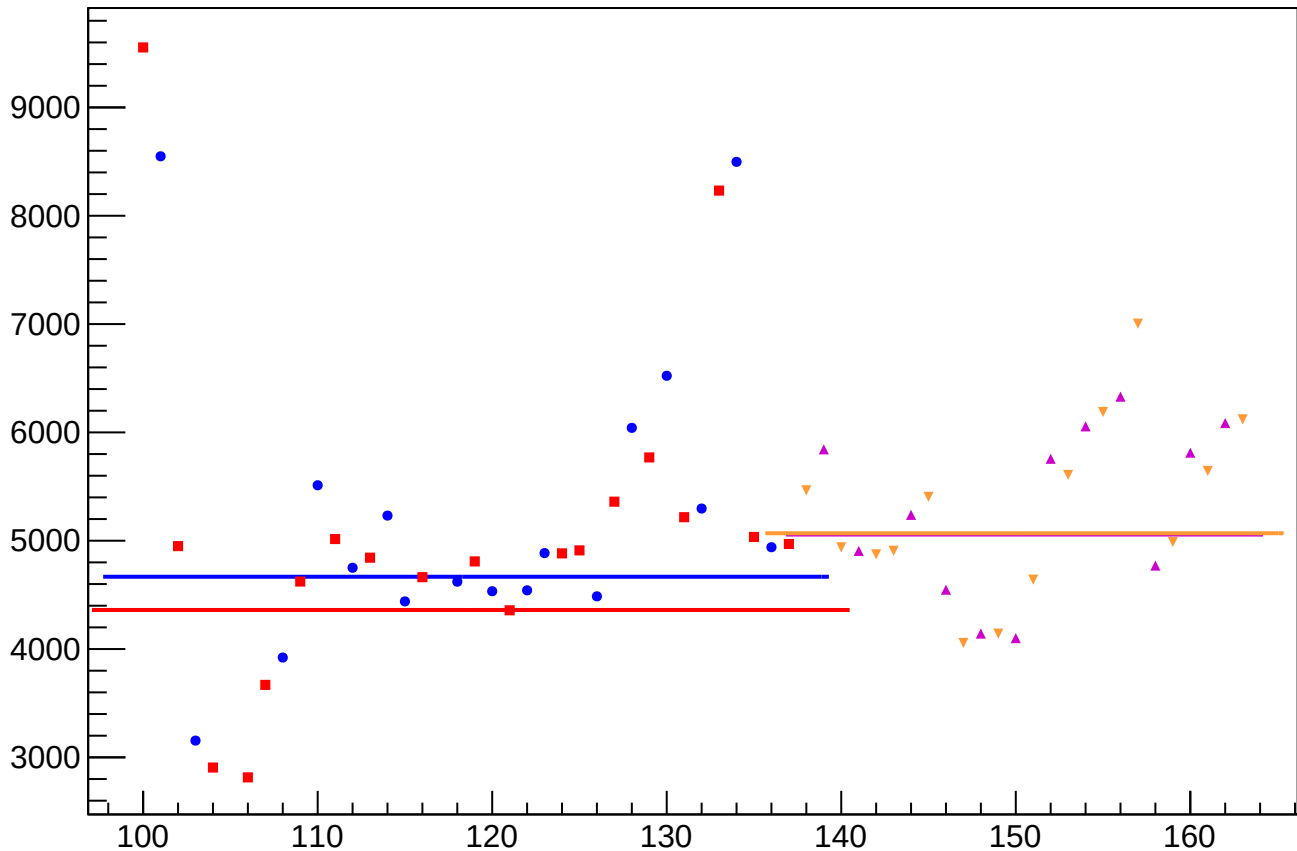
Left In: -1864.484+/-1634.632  $\chi^2/\text{NDF}$ : 11.8/11

+ sign 2445.470+/-1204.546  $\chi^2/\text{NDF}$ : 30.9/30

All: -260.281+/-845.320  $\chi^2/\text{NDF}$ : 68.3/61

- sign -2885.930+/-1186.582  $\chi^2/\text{NDF}$ : 27.5/30

# asym\_atr\_avg\_rms vs Slug



Right In: 4667.470+/-1.314  $\chi^2/\text{NDF}$ : 777857.9/16

Left Out: 5069.078+/-1.119  $\chi^2/\text{NDF}$ : 454404.5/13

Right Out: 4360.582+/-1.213  $\chi^2/\text{NDF}$ : 832745.2/18

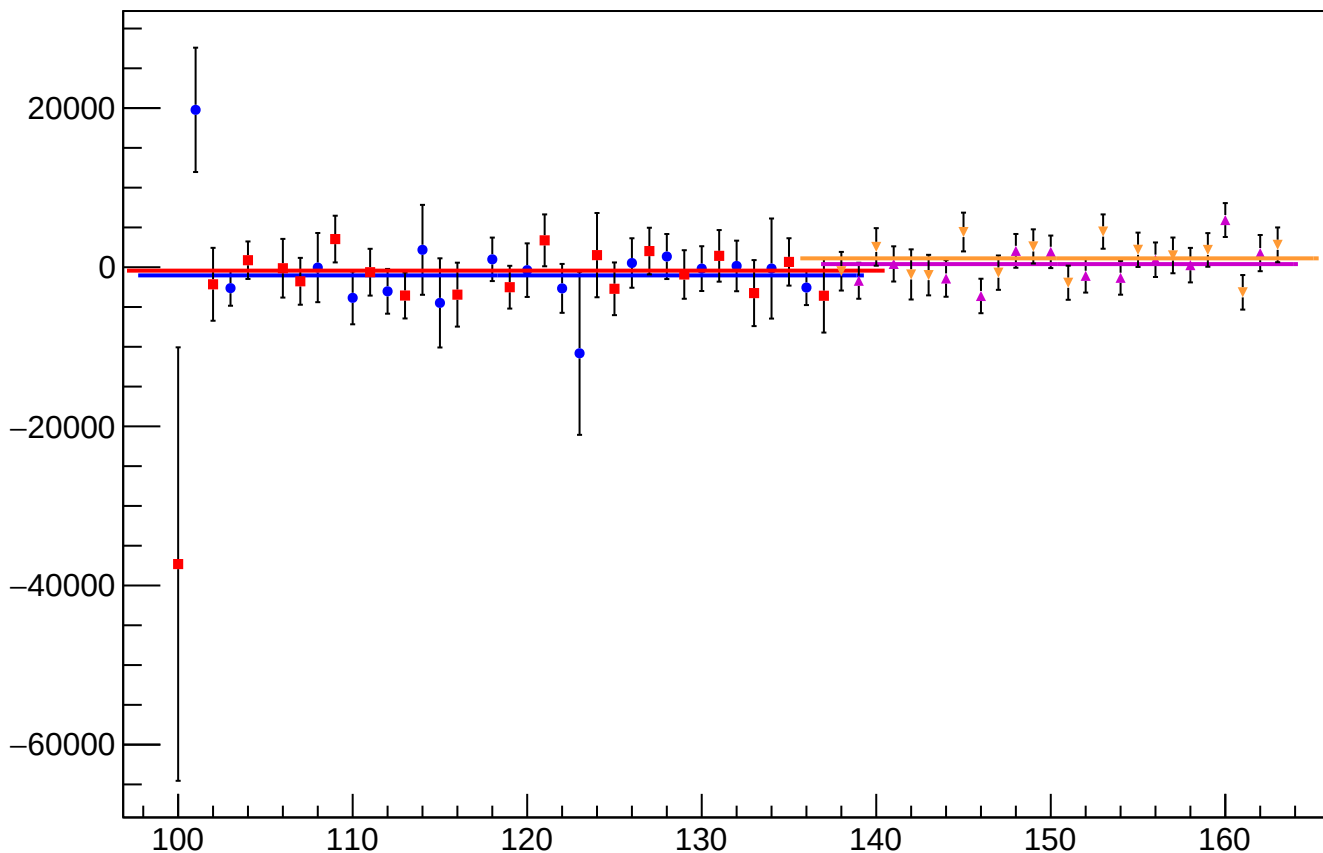
Left In: 5056.963+/-1.156  $\chi^2/\text{NDF}$ : 434697.4/11

+ sign 4900.248+/-0.852  $\chi^2/\text{NDF}$ : 1286434.3/30

All: 4811.330+/-0.597  $\chi^2/\text{NDF}$ : 2748055.5/63

- sign 4725.517+/-0.837  $\chi^2/\text{NDF}$ : 1440204.9/30

# dit\_asym\_atr\_dd\_mean vs Slug



Right In: -1027.051+/-796.597  $\chi^2/\text{NDF}$ : 13.1/16

Left Out: 1115.058+/-609.190  $\chi^2/\text{NDF}$ : 14.4/13

Right Out: -428.488+/-760.817  $\chi^2/\text{NDF}$ : 10.8/18

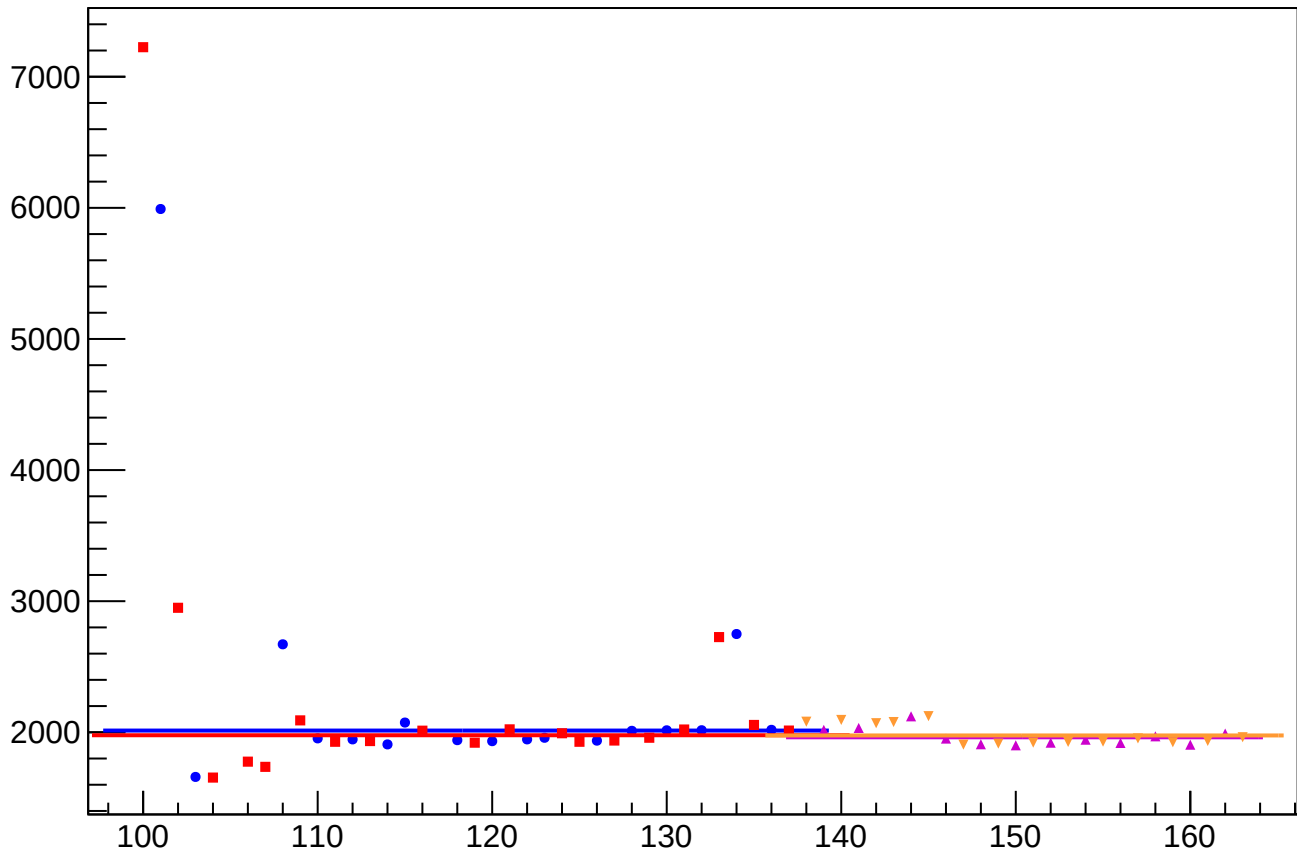
Left In: 392.226+/-626.426  $\chi^2/\text{NDF}$ : 14.4/11

+ sign 324.584+/-483.907  $\chi^2/\text{NDF}$ : 32.0/30

All: 192.526+/-342.064  $\chi^2/\text{NDF}$ : 58.0/61

- sign 60.637+/-483.598  $\chi^2/\text{NDF}$ : 25.9/30

# dit\_asym\_atr\_dd\_rms vs Slug



Right In: 2013.270 $\pm$ 0.563  $\chi^2$ /NDF: 650048.6/16

Left Out: 1975.981 $\pm$ 0.431  $\chi^2$ /NDF:30353.0/13

Right Out: 1977.545 $\pm$ 0.537  $\chi^2$ /NDF: 294899.1/18

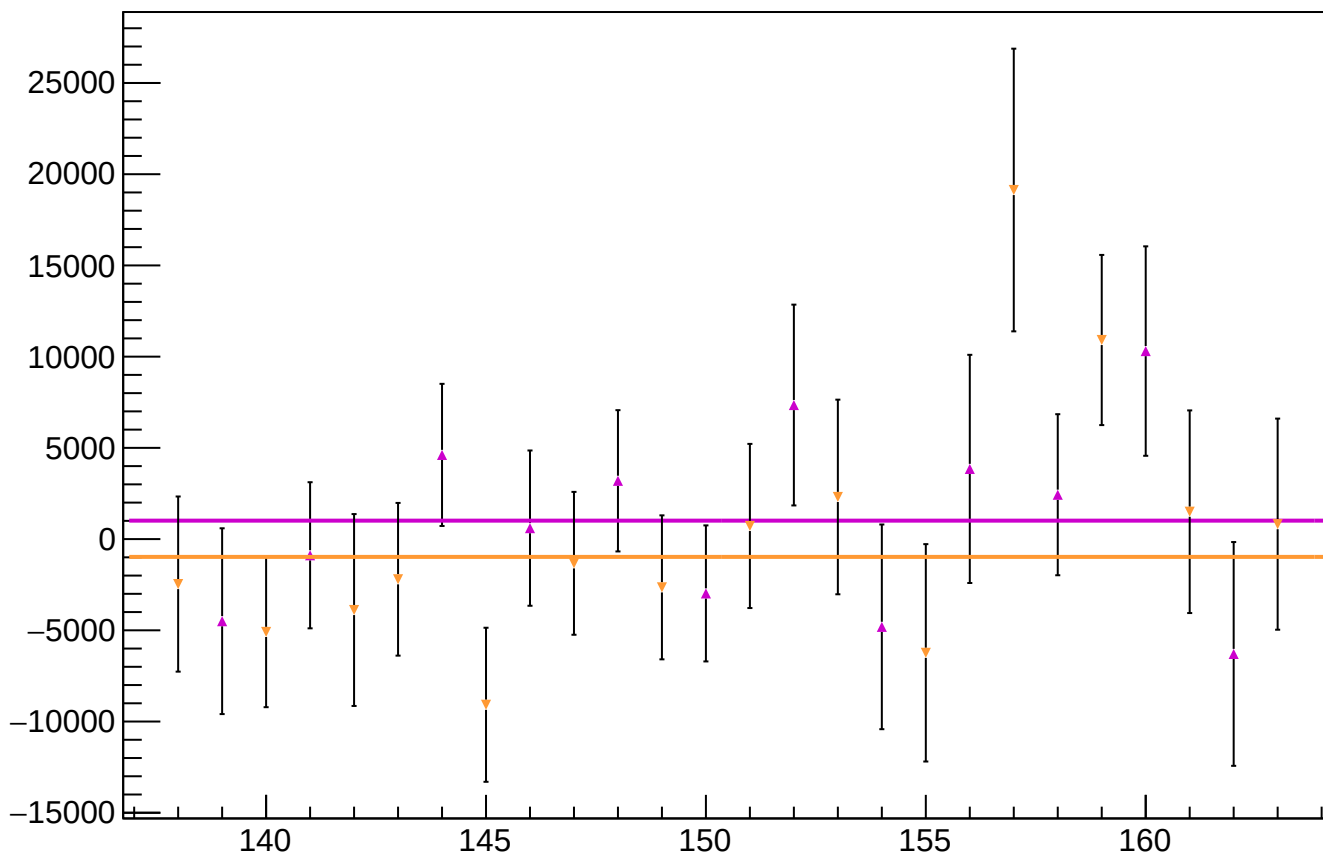
Left In: 1961.852 $\pm$ 0.443  $\chi^2$ /NDF:19542.5/11

+ sign 1989.741 $\pm$ 0.342  $\chi^2$ /NDF: 683166.8/30

All: 1978.959 $\pm$ 0.242  $\chi^2$ /NDF: 1000099.8/63

- sign 1968.200 $\pm$ 0.342  $\chi^2$ /NDF: 314949.3/30

# asym\_atr\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -976.025+/-1271.368  $\chi^2/\text{NDF}$ : 20.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

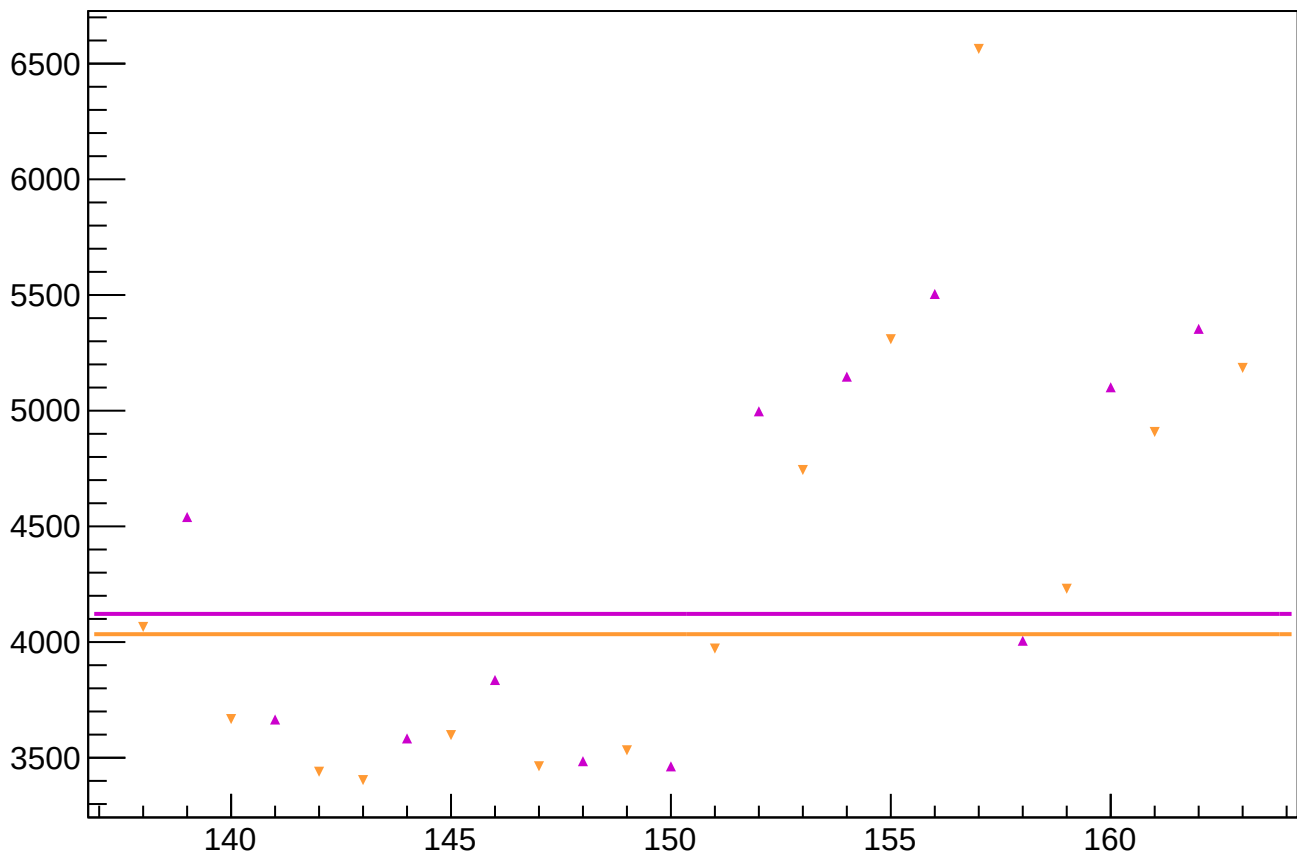
Left In: 1011.204+/-1337.100  $\chi^2/\text{NDF}$ : 10.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.456+/-921.355  $\chi^2/\text{NDF}$ : 31.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4034.055+/-0.899  $\chi^2/\text{NDF}$ : 655878.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

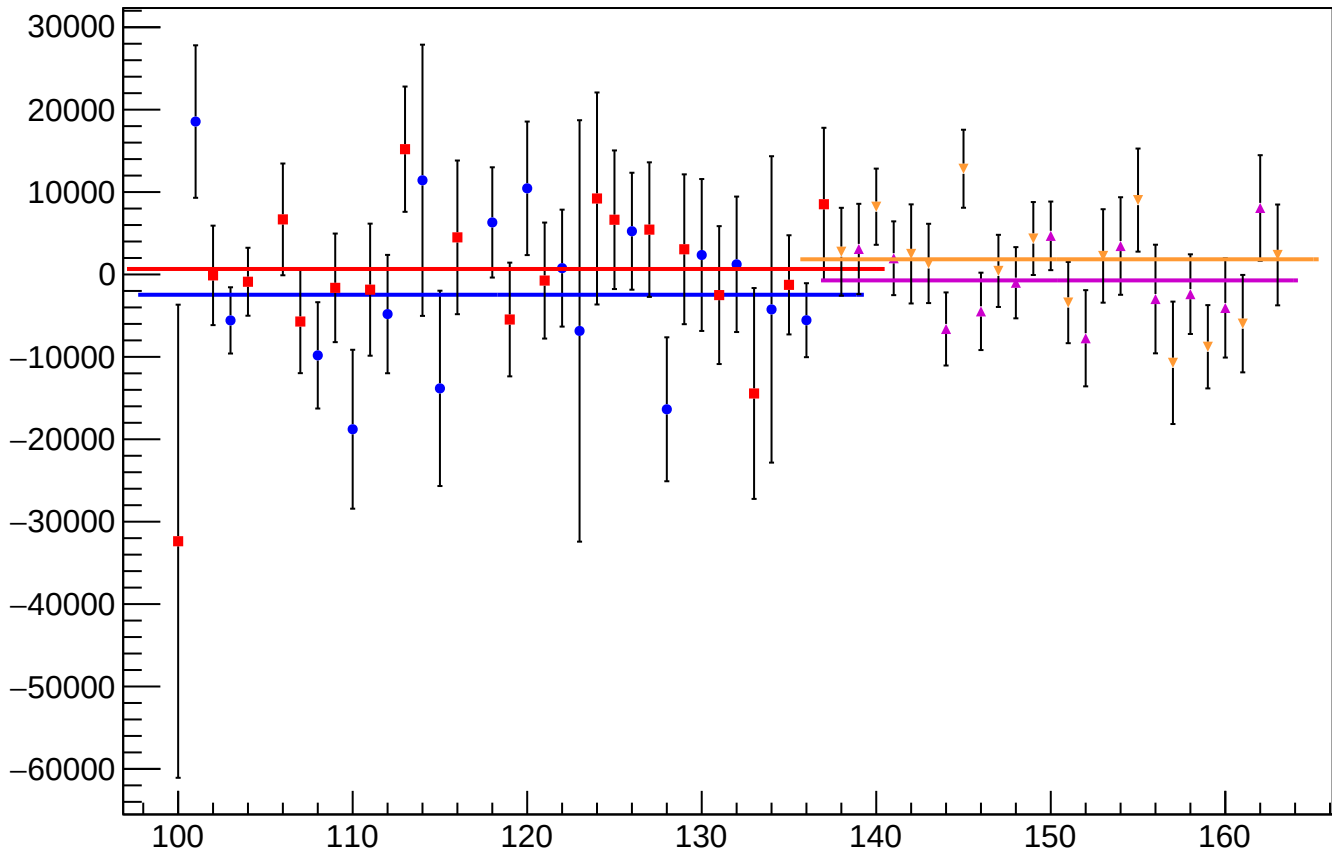
Left In: 4121.738+/-0.945  $\chi^2/\text{NDF}$ : 558807.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4075.688+/-0.651  $\chi^2/\text{NDF}$ : 1219203.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr\_dd\_mean vs Slug



Right In:  $-2462.254 \pm 1797.293$   $\chi^2/\text{NDF}$ : 20.8/16

Left Out:  $1842.277 \pm 1398.849$   $\chi^2/\text{NDF}$ : 19.3/13

Right Out:  $666.170 \pm 1689.812$   $\chi^2/\text{NDF}$ : 11.9/18

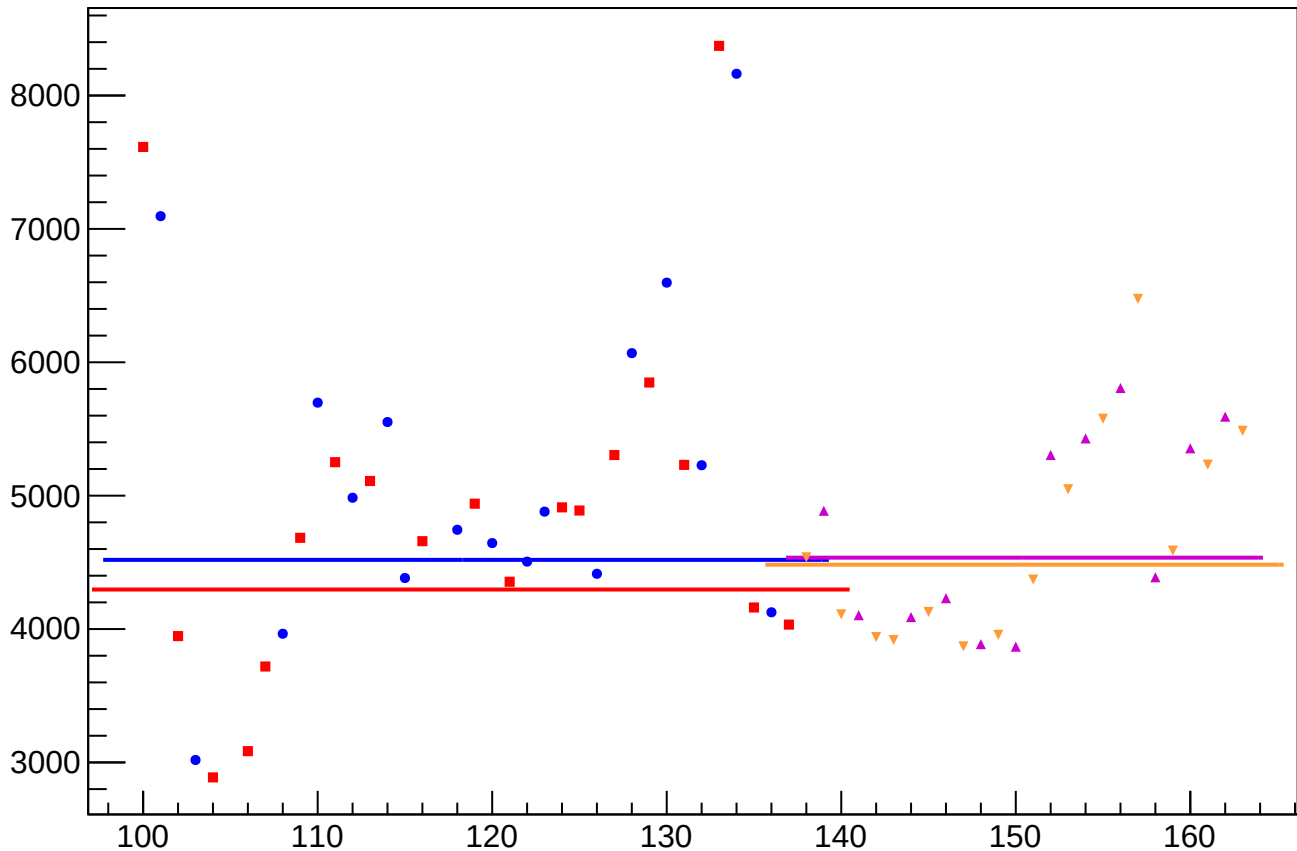
Left In:  $-719.576 \pm 1464.273$   $\chi^2/\text{NDF}$ : 9.3/11

+ sign  $218.419 \pm 1103.900$   $\chi^2/\text{NDF}$ : 43.7/30

All:  $46.986 \pm 781.532$   $\chi^2/\text{NDF}$ : 65.3/61

- sign  $-125.289 \pm 1106.610$   $\chi^2/\text{NDF}$ : 21.6/30

# asym\_atr\_dd\_rms vs Slug



Right In: 4518.684+/-1.271  $\chi^2/\text{NDF}$ : 770226.9/16

Left Out: 4482.536+/-0.989  $\chi^2/\text{NDF}$ : 448592.4/13

+ sign 4496.173+/-0.781  $\chi^2/\text{NDF}$ : 1219323.1/30

Right Out: 4296.379+/-1.188  $\chi^2/\text{NDF}$ : 771702.5/18

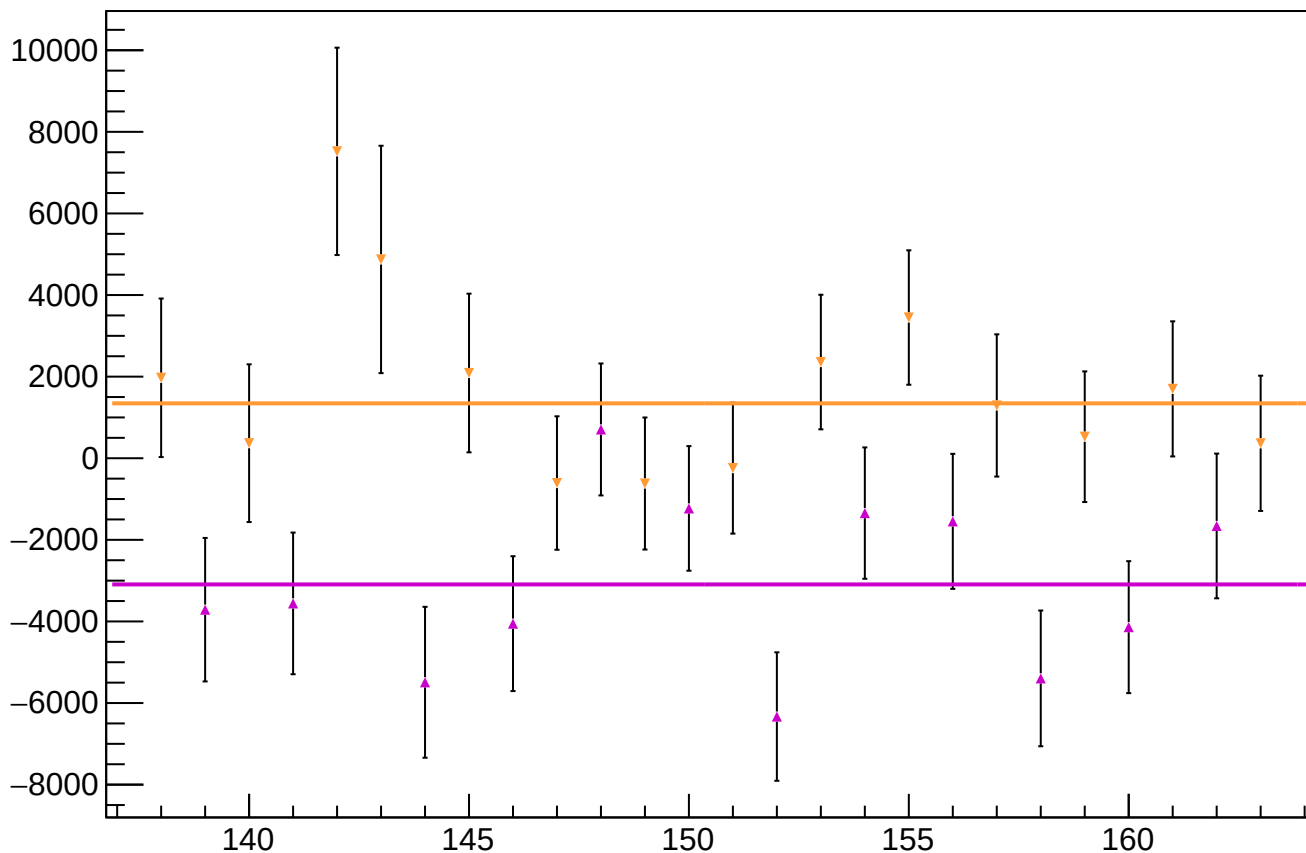
All: 4464.164+/-0.552  $\chi^2/\text{NDF}$ : 2417511.6/63

- sign 4432.151+/-0.781  $\chi^2/\text{NDF}$ : 1194825.2/30

Left In: 4535.238+/-1.035  $\chi^2/\text{NDF}$ : 400154.1/11



# dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1345.387+/-476.296  $\chi^2/\text{NDF}$ :14.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

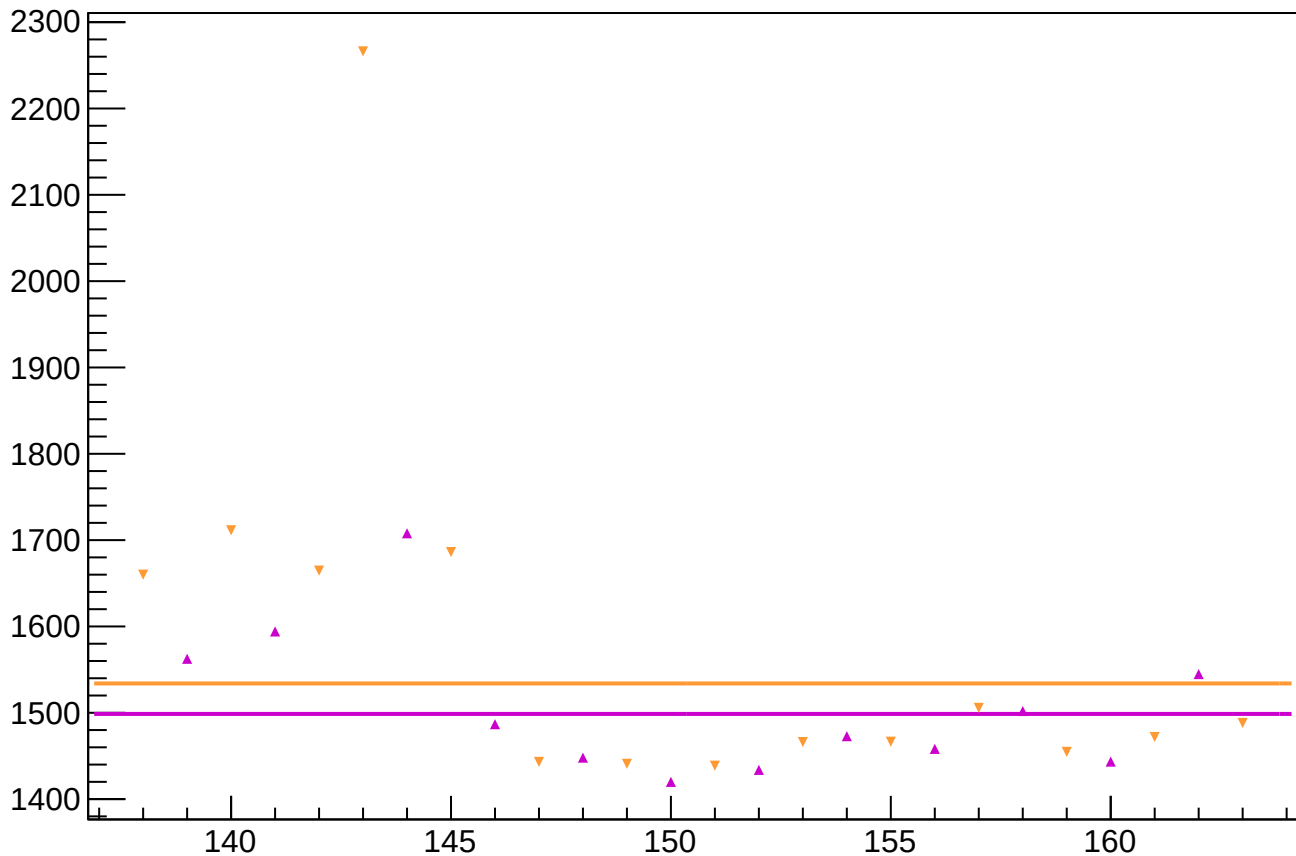
Left In: -3092.776+/-479.943  $\chi^2/\text{NDF}$ :18.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -856.766+/-338.074  $\chi^2/\text{NDF}$ : 76.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1533.961+/-0.337  $\chi^2/\text{NDF}$ :217220.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

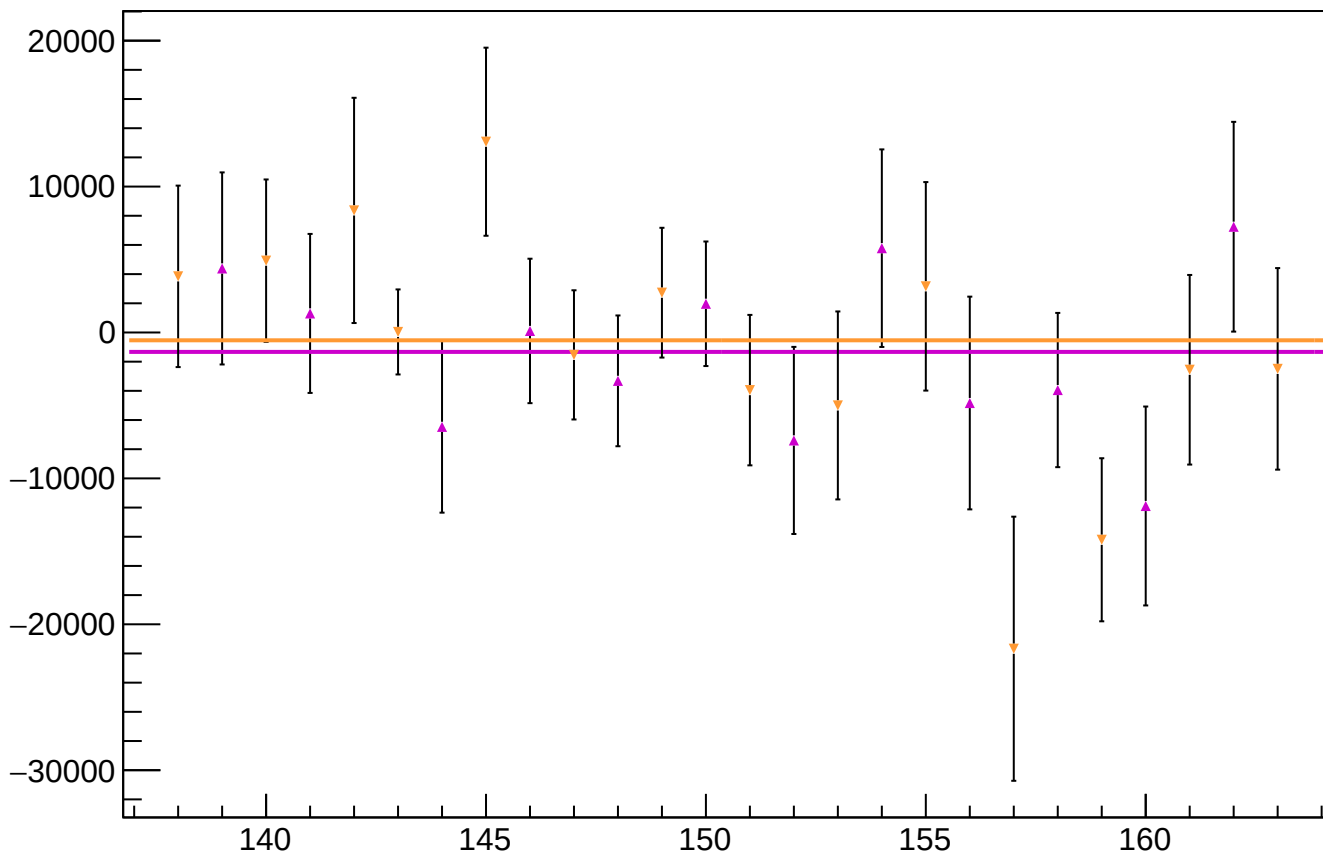
Left In: 1498.675+/-0.339  $\chi^2/\text{NDF}$ :50480.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1516.452+/-0.239  $\chi^2/\text{NDF}$ : 273147.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -536.268+/-1430.744  $\chi^2/\text{NDF}$ :20.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

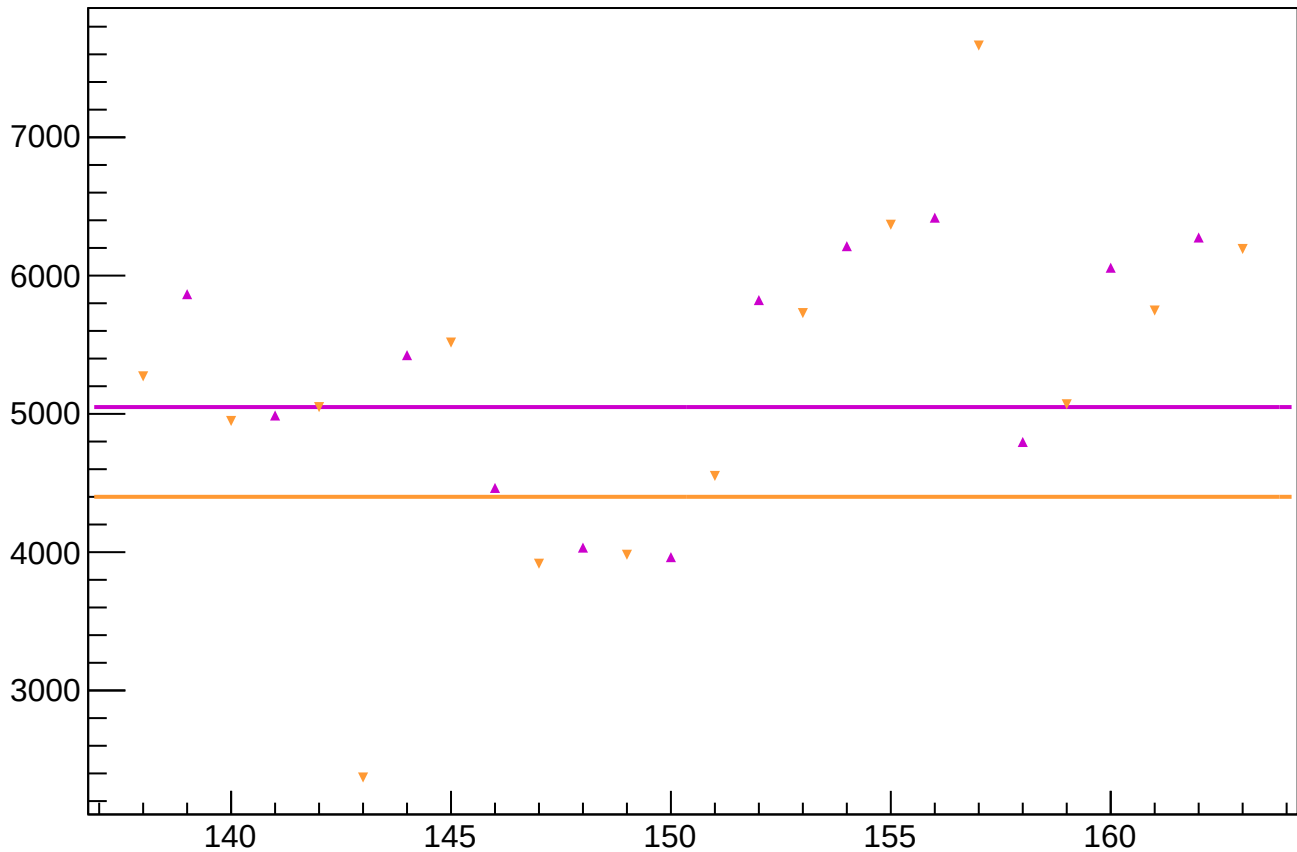
Left In: -1330.900+/-1637.812  $\chi^2/\text{NDF}$ :8.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -880.205+/-1077.508  $\chi^2/\text{NDF}$ : 29.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4400.326+/-1.012  $\chi^2/\text{NDF}$ :1892282.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

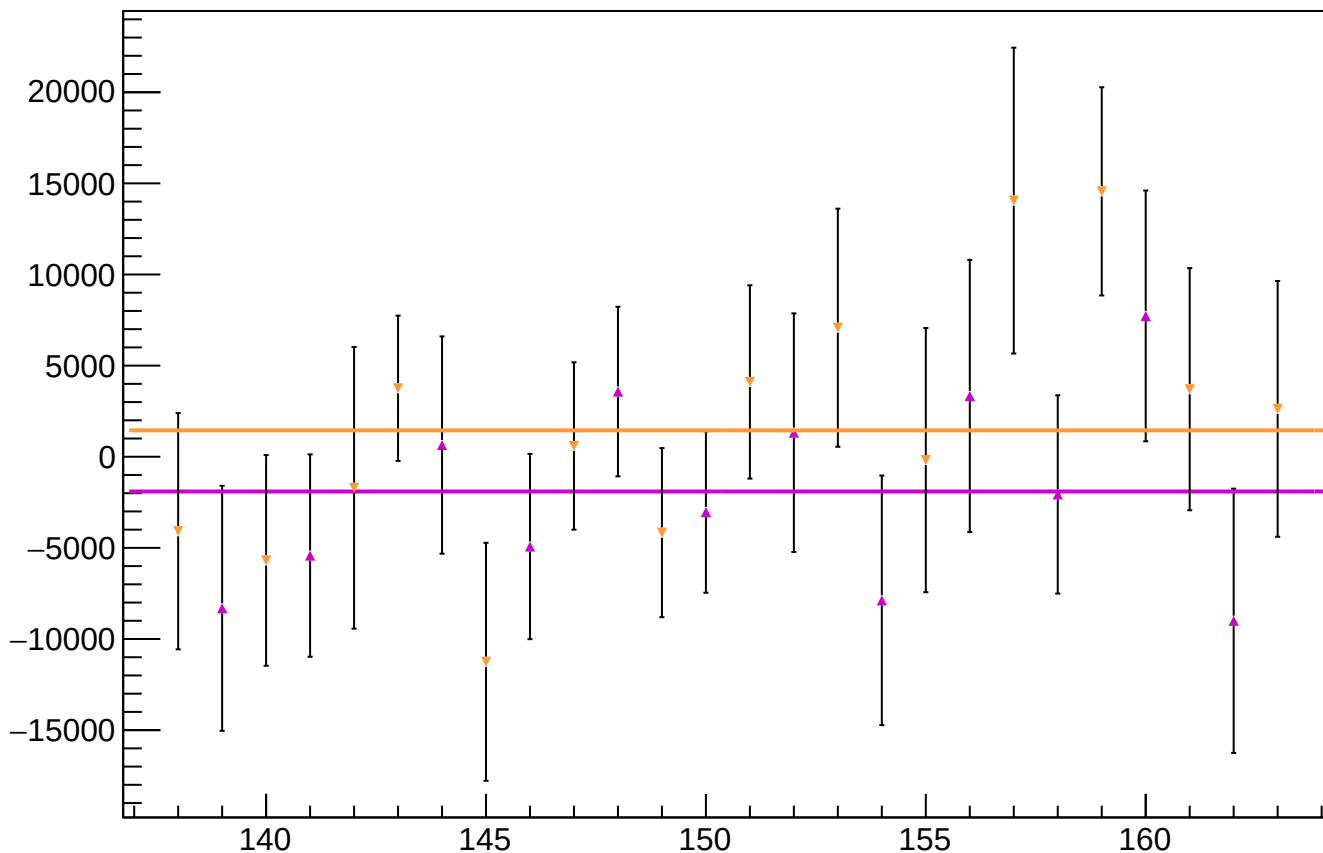
Left In: 5049.344+/-1.158  $\chi^2/\text{NDF}$ :564469.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 4681.238+/-0.762  $\chi^2/\text{NDF}$ : 2634879.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1447.619+/-1549.222  $\chi^2/\text{NDF}$ :16.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

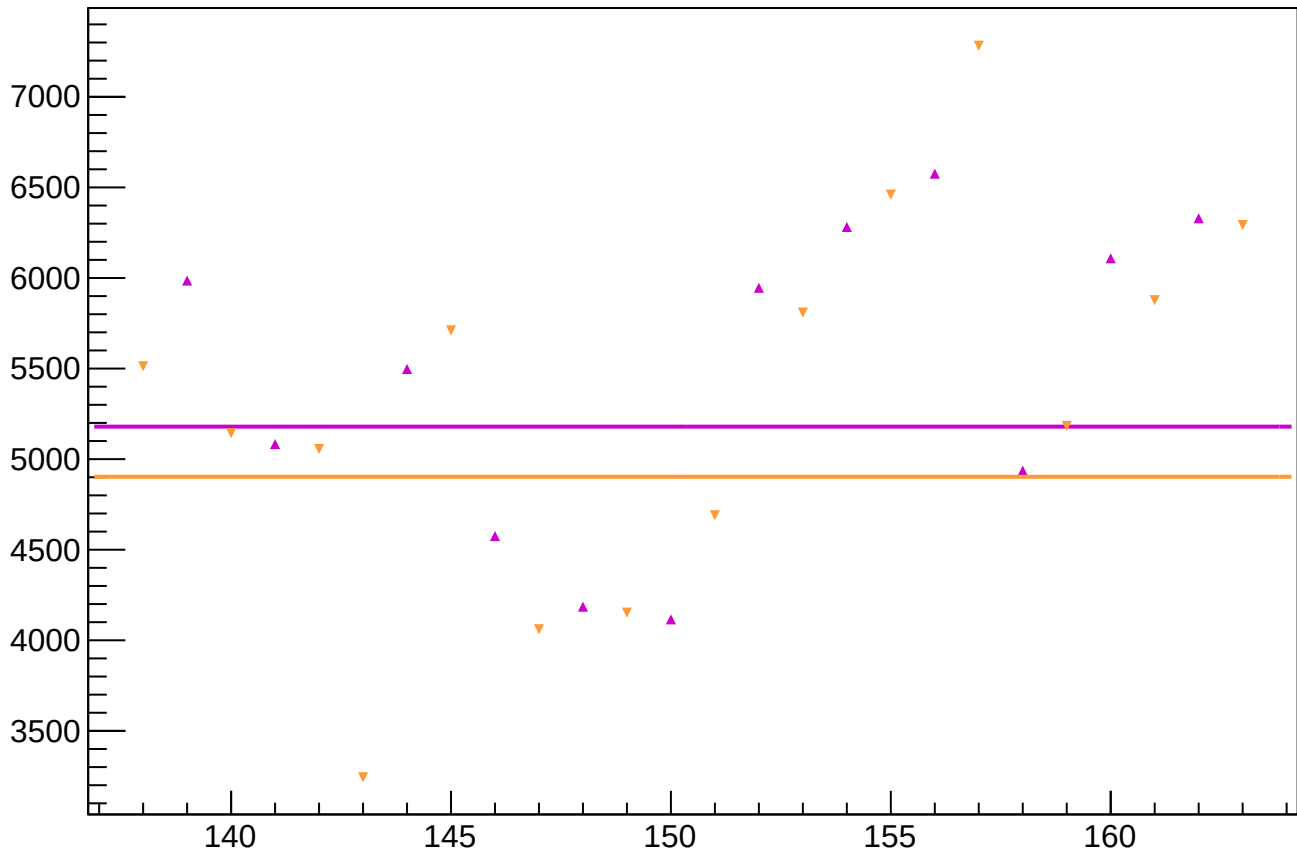
Left In: -1906.298+/-1678.127  $\chi^2/\text{NDF}$ :7.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -95.593+/-1138.312  $\chi^2/\text{NDF}$ : 26.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4902.682+/-1.095  $\chi^2/\text{NDF}$ :939996.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

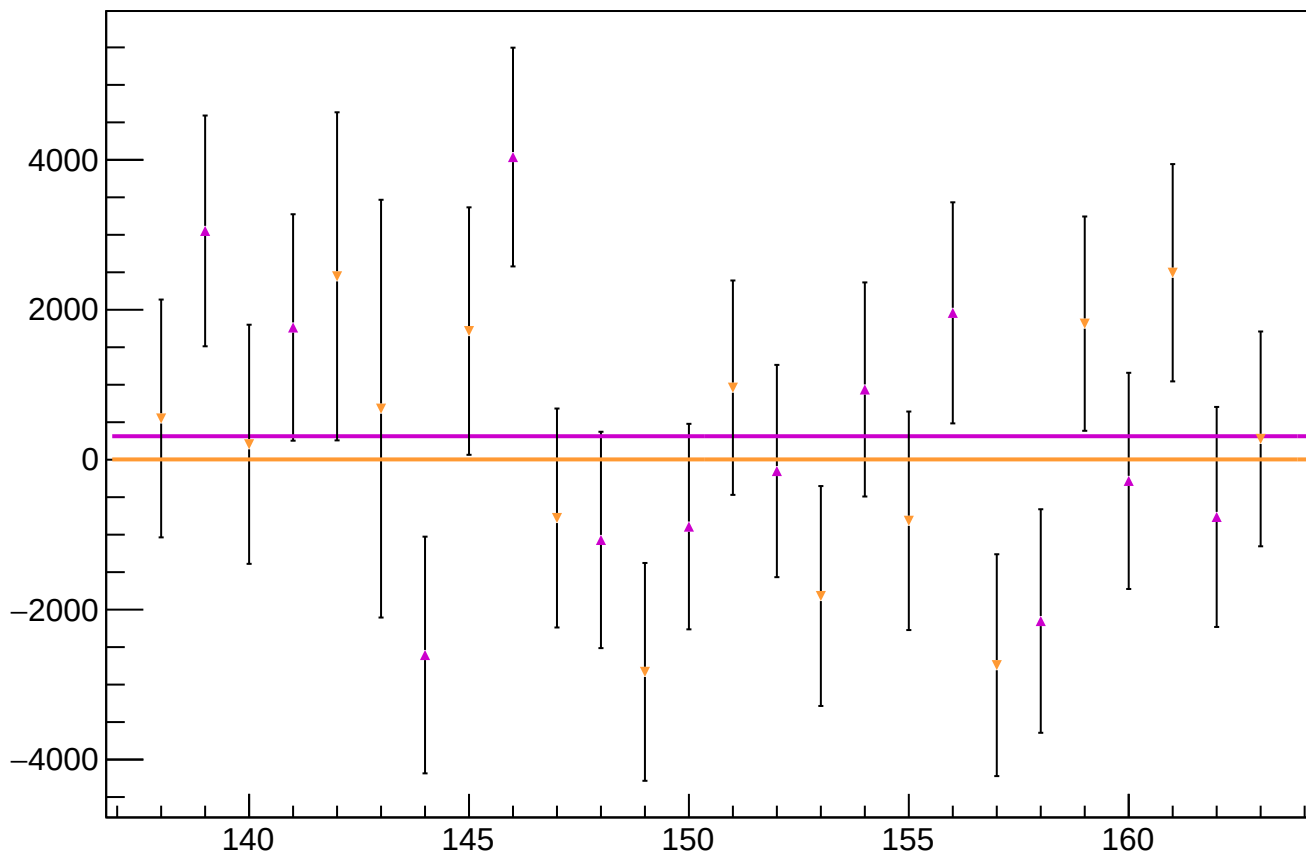
Left In: 5179.477+/-1.187  $\chi^2/\text{NDF}$ :509920.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5030.041+/-0.805  $\chi^2/\text{NDF}$ : 1479293.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.808 $\pm$ 416.241  $\chi^2$ /NDF:16.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

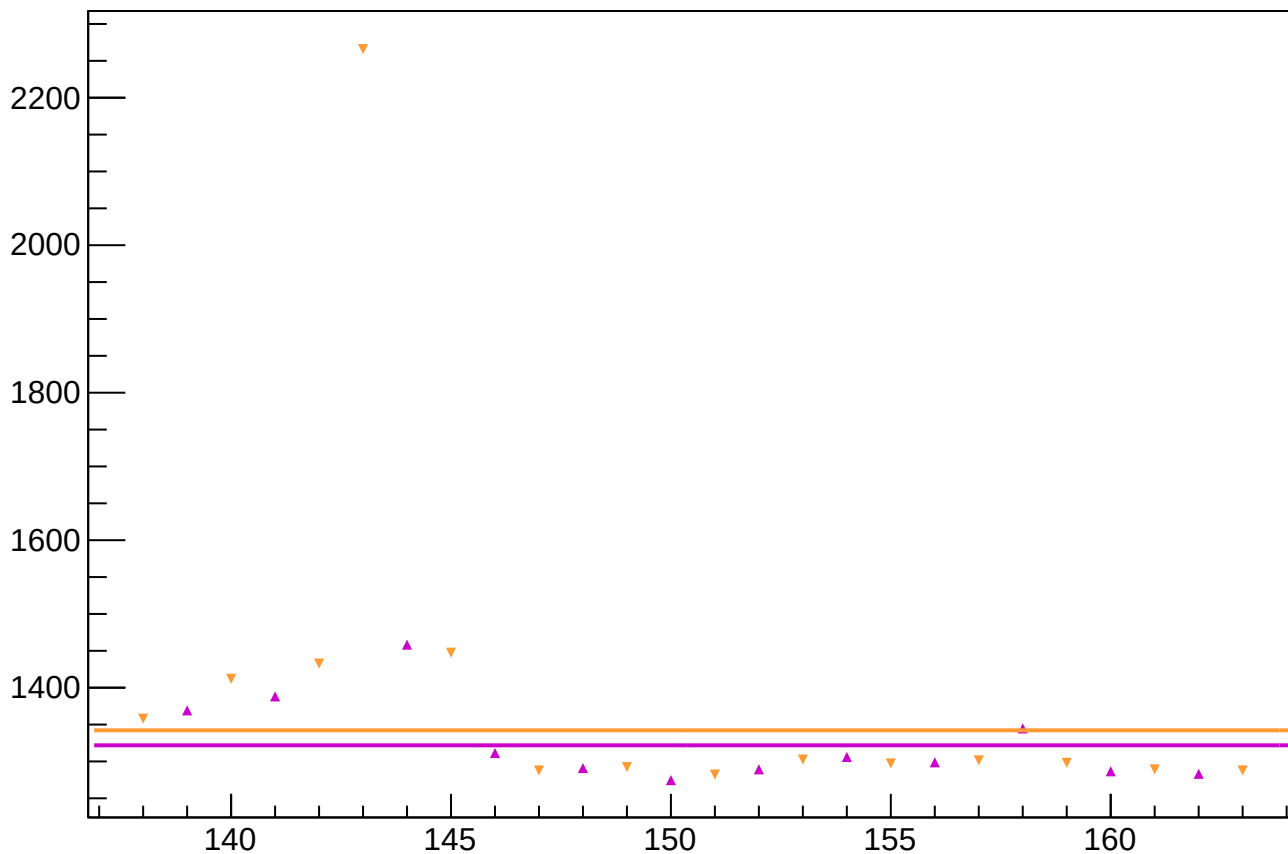
Left In: 313.204 $\pm$ 423.024  $\chi^2$ /NDF:20.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 156.005 $\pm$ 296.696  $\chi^2$ /NDF: 37.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1342.210+/-0.294  $\chi^2/\text{NDF}$ : 256381.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1321.860+/-0.299  $\chi^2/\text{NDF}$ : 28931.0/11

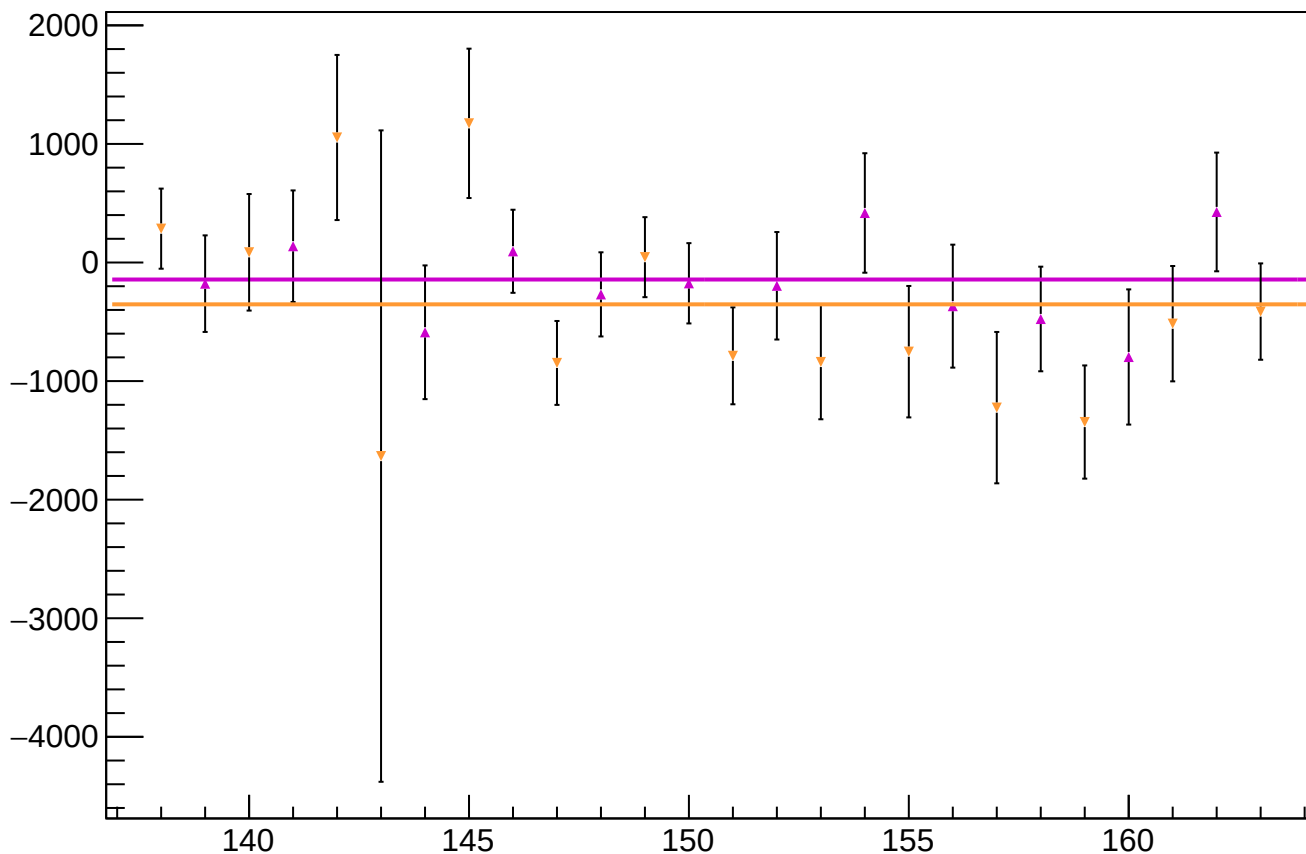
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1332.200+/-0.210  $\chi^2/\text{NDF}$ : 287664.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -352.752 $\pm$ 123.990  $\chi^2$ /NDF:26.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

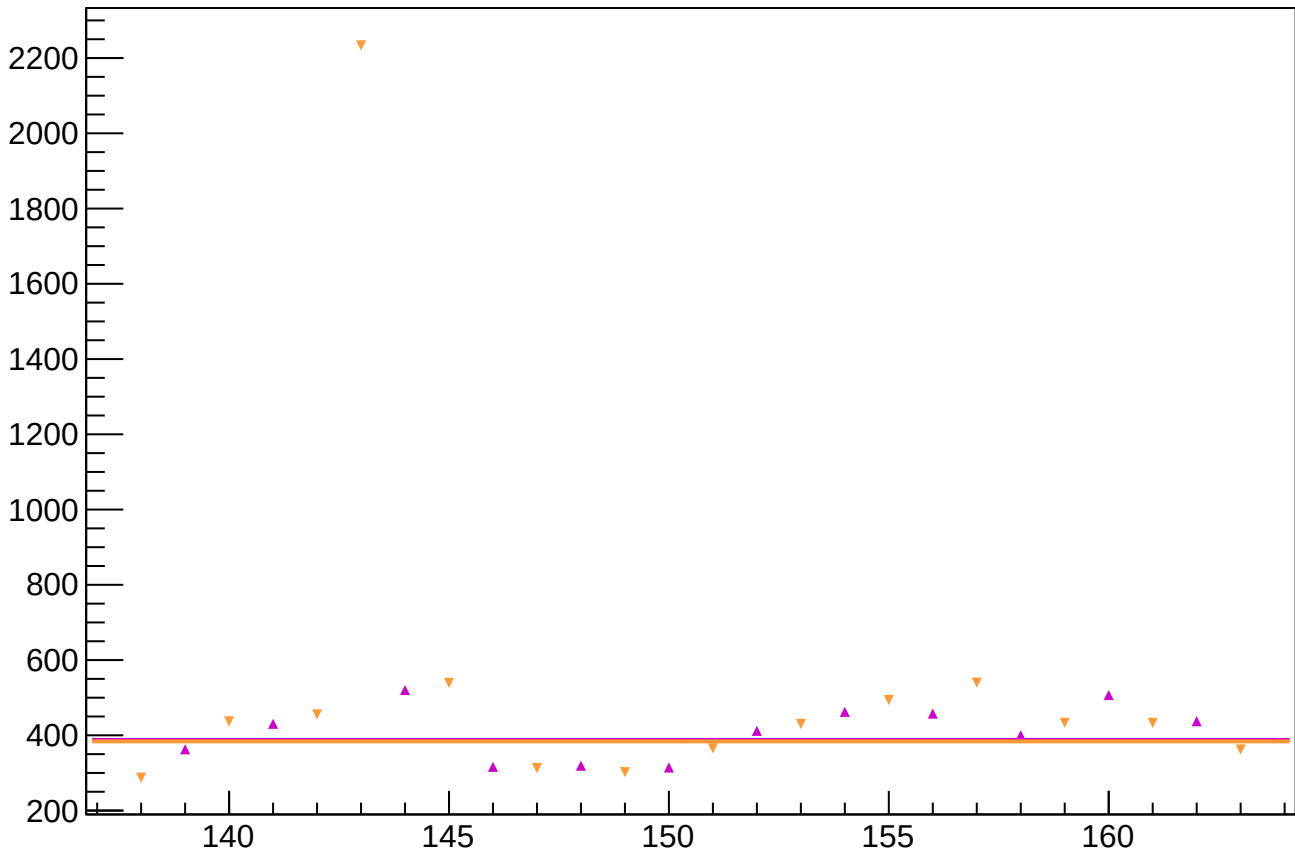
Left In: -143.405 $\pm$ 125.743  $\chi^2$ /NDF:6.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -249.547 $\pm$ 88.287  $\chi^2$ /NDF: 34.5/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug



Right In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 383.886 +/- 0.088  $\chi^2/\text{NDF}$ : 1702996.9/13

Right Out: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

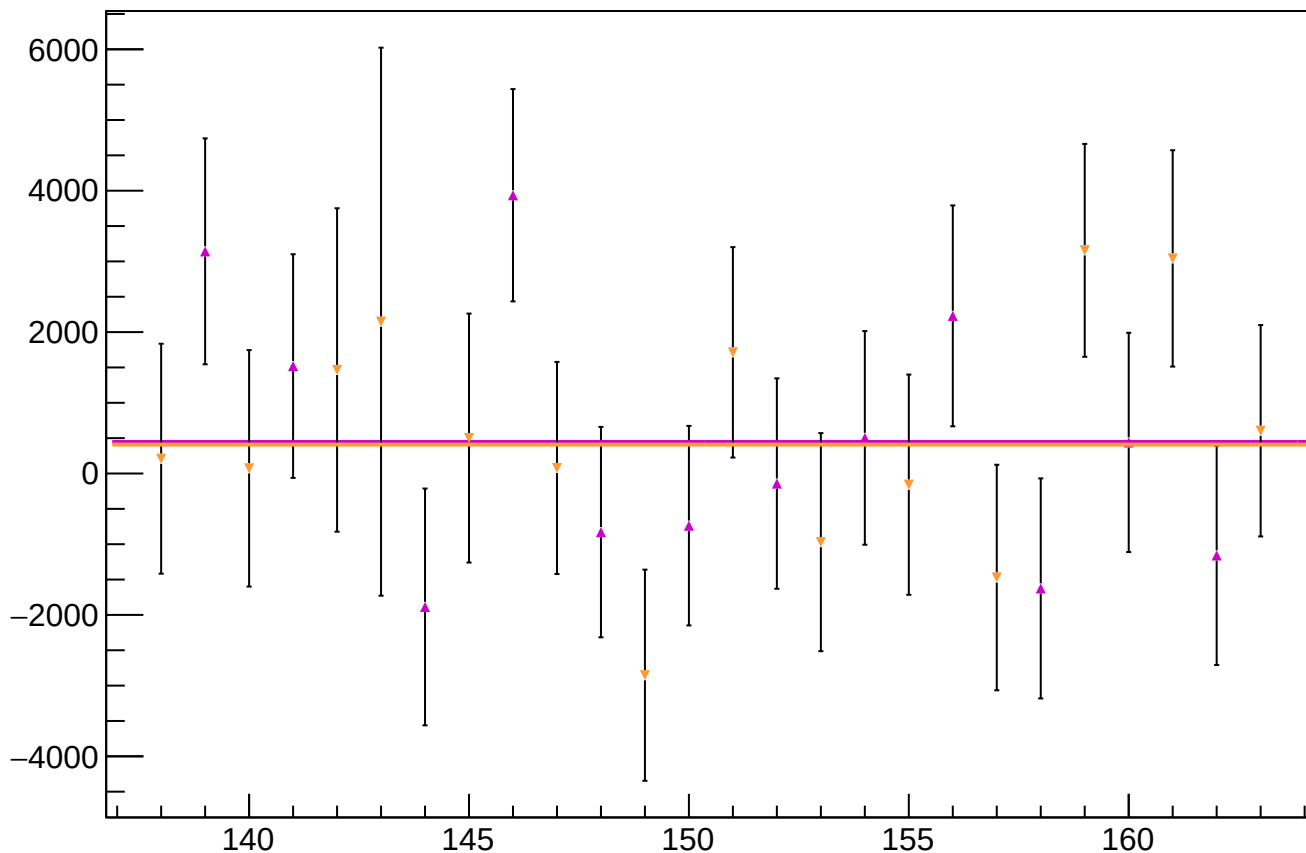
Left In: 387.725 +/- 0.089  $\chi^2/\text{NDF}$ : 580904.3/11

+ sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 385.778 +/- 0.062  $\chi^2/\text{NDF}$ : 2284846.3/25

- sign 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 409.364+/-438.450  $\chi^2/\text{NDF}$ :14.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

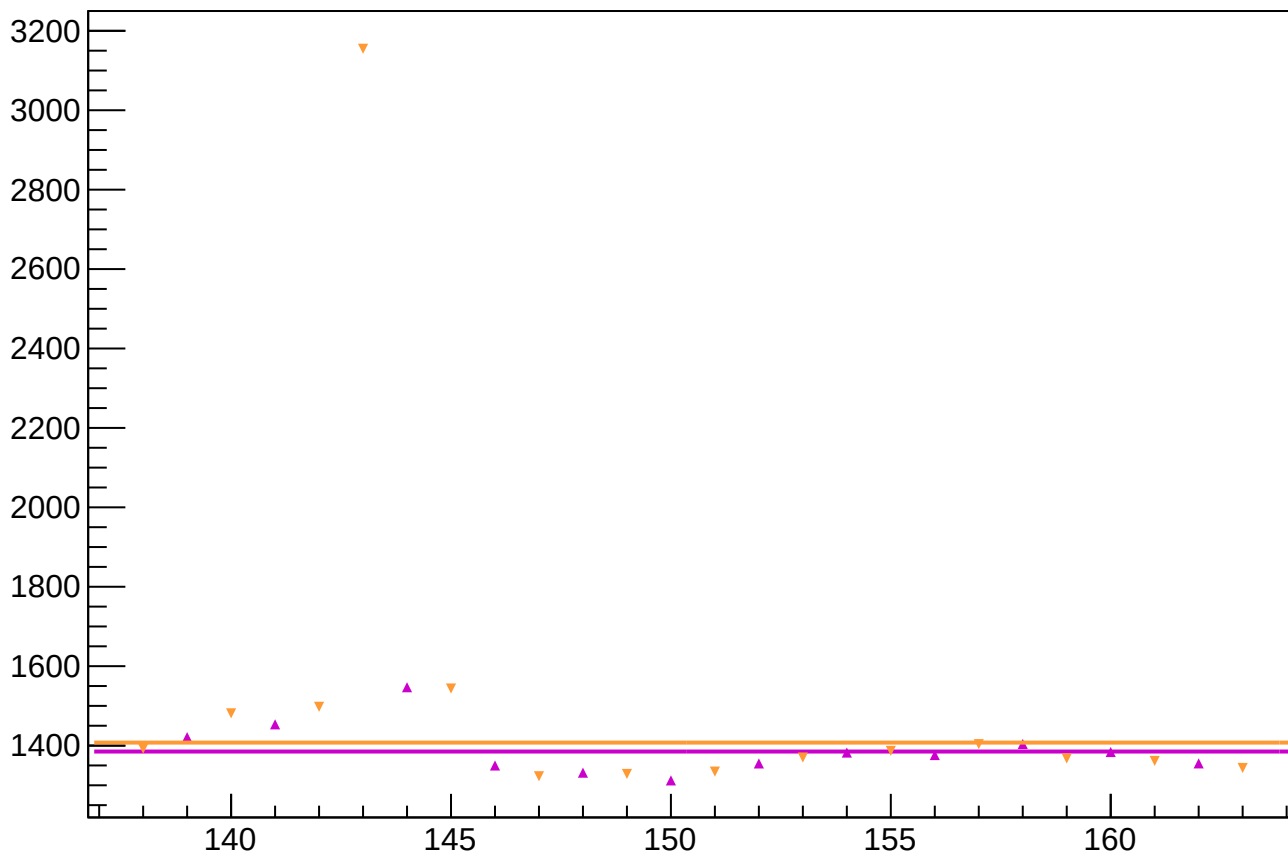
Left In: 445.105+/-443.236  $\chi^2/\text{NDF}$ :16.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 427.040+/-311.709  $\chi^2/\text{NDF}$ : 31.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1407.560+/-0.310  $\chi^2/\text{NDF}$ : 450877.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

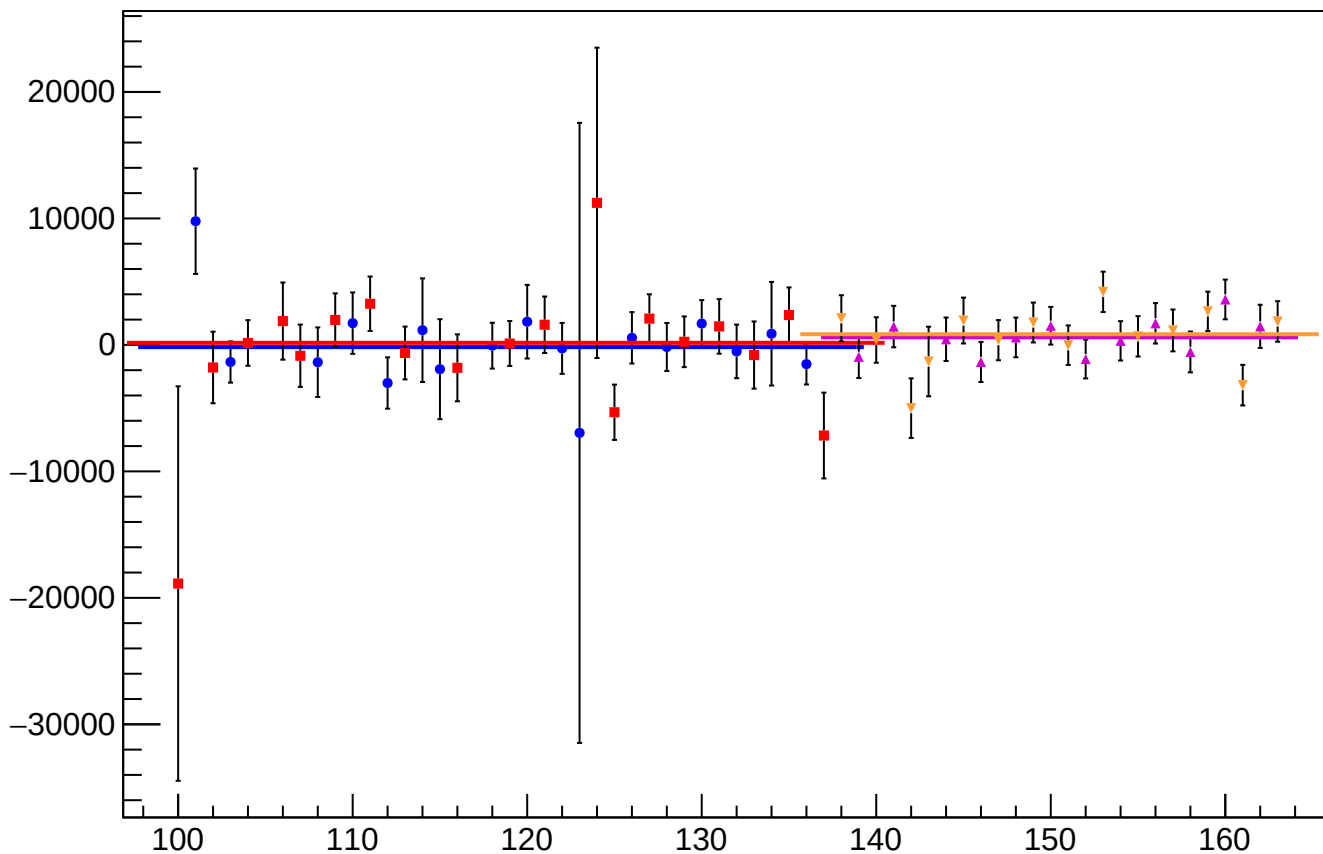
Left In: 1385.015+/-0.313  $\chi^2/\text{NDF}$ : 34372.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1396.410+/-0.220  $\chi^2/\text{NDF}$ : 487865.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In:  $-174.841 \pm 554.659$   $\chi^2/\text{NDF}$ : 11.8/16

Left Out:  $844.922 \pm 457.522$   $\chi^2/\text{NDF}$ : 20.9/13

Right Out:  $164.937 \pm 540.101$   $\chi^2/\text{NDF}$ : 20.7/18

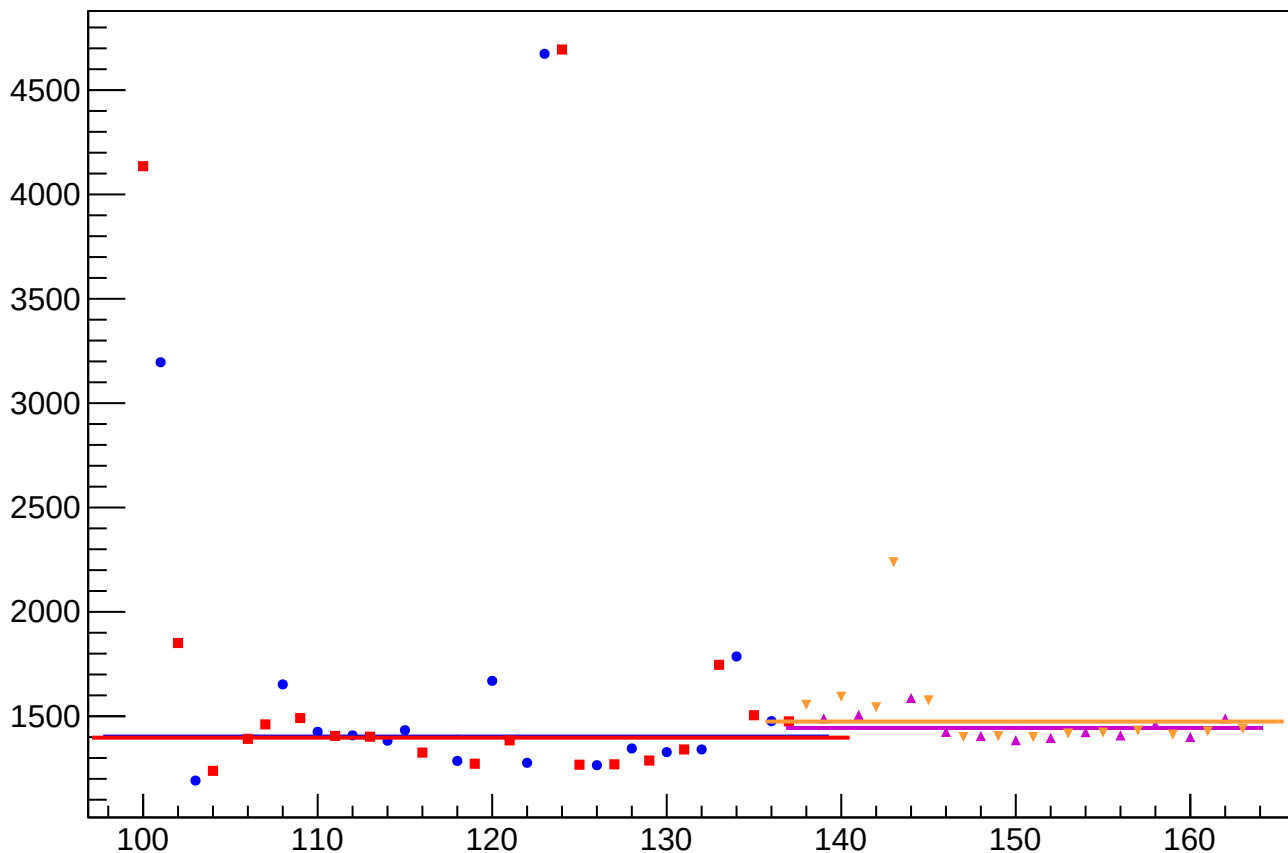
Left In:  $600.688 \pm 462.073$   $\chi^2/\text{NDF}$ : 9.2/11

+ sign  $432.012 \pm 352.942$   $\chi^2/\text{NDF}$ : 34.7/30

All:  $424.233 \pm 248.918$   $\chi^2/\text{NDF}$ : 64.9/61

- sign  $416.535 \pm 351.111$   $\chi^2/\text{NDF}$ : 30.2/30

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 1402.709 $\pm$ 0.392  $\chi^2$ /NDF: 526326.4/16

Left Out: 1474.578 $\pm$ 0.324  $\chi^2$ /NDF: 199299.1/13

Right Out: 1397.442 $\pm$ 0.382  $\chi^2$ /NDF: 353365.4/18

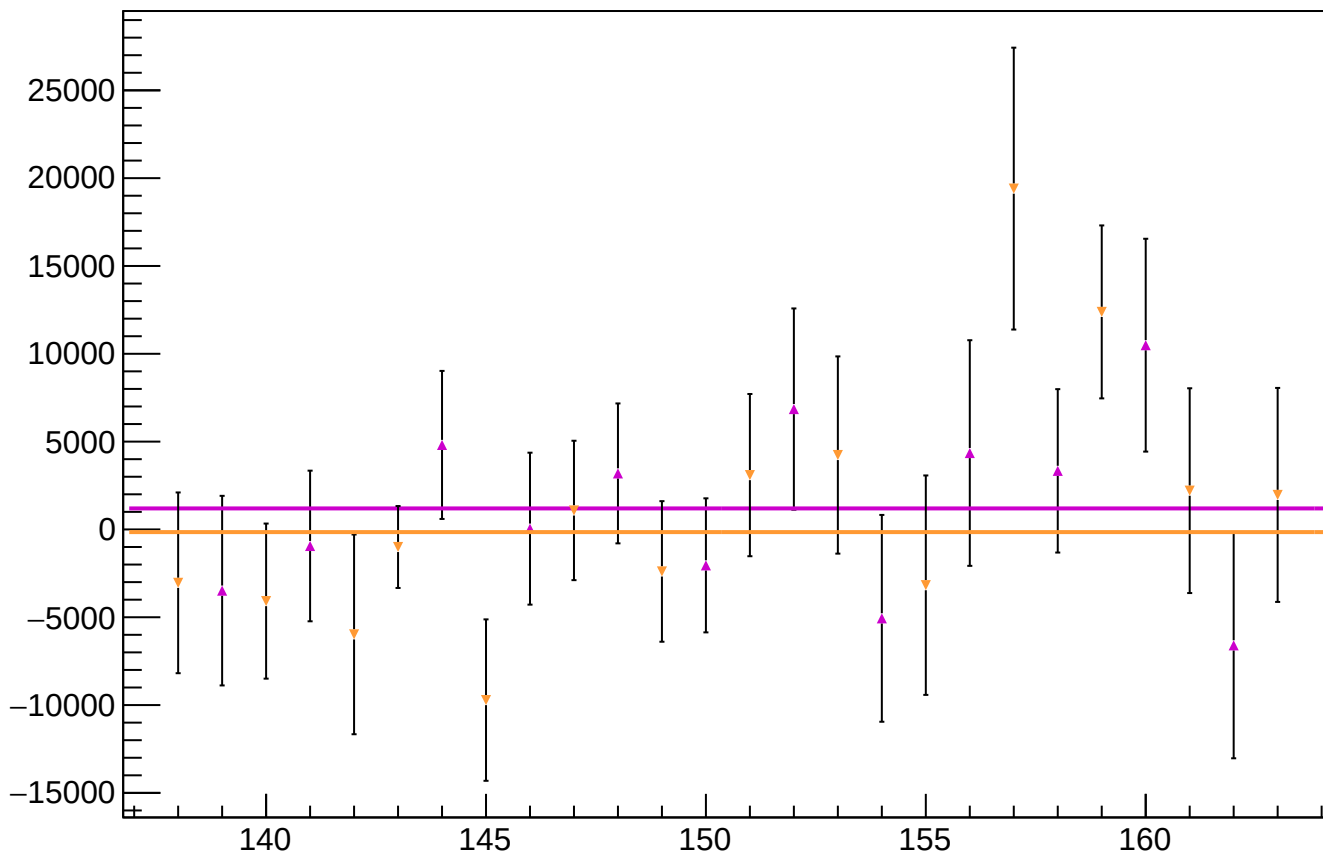
Left In: 1443.915 $\pm$ 0.327  $\chi^2$ /NDF: 29357.4/11

+ sign 1445.478 $\pm$ 0.250  $\chi^2$ /NDF: 745608.2/30

All: 1434.812 $\pm$ 0.176  $\chi^2$ /NDF: 1140519.1/63

- sign 1424.262 $\pm$ 0.248  $\chi^2$ /NDF: 391278.0/30

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -151.843 $\pm$ 1199.938  $\chi^2$ /NDF:21.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

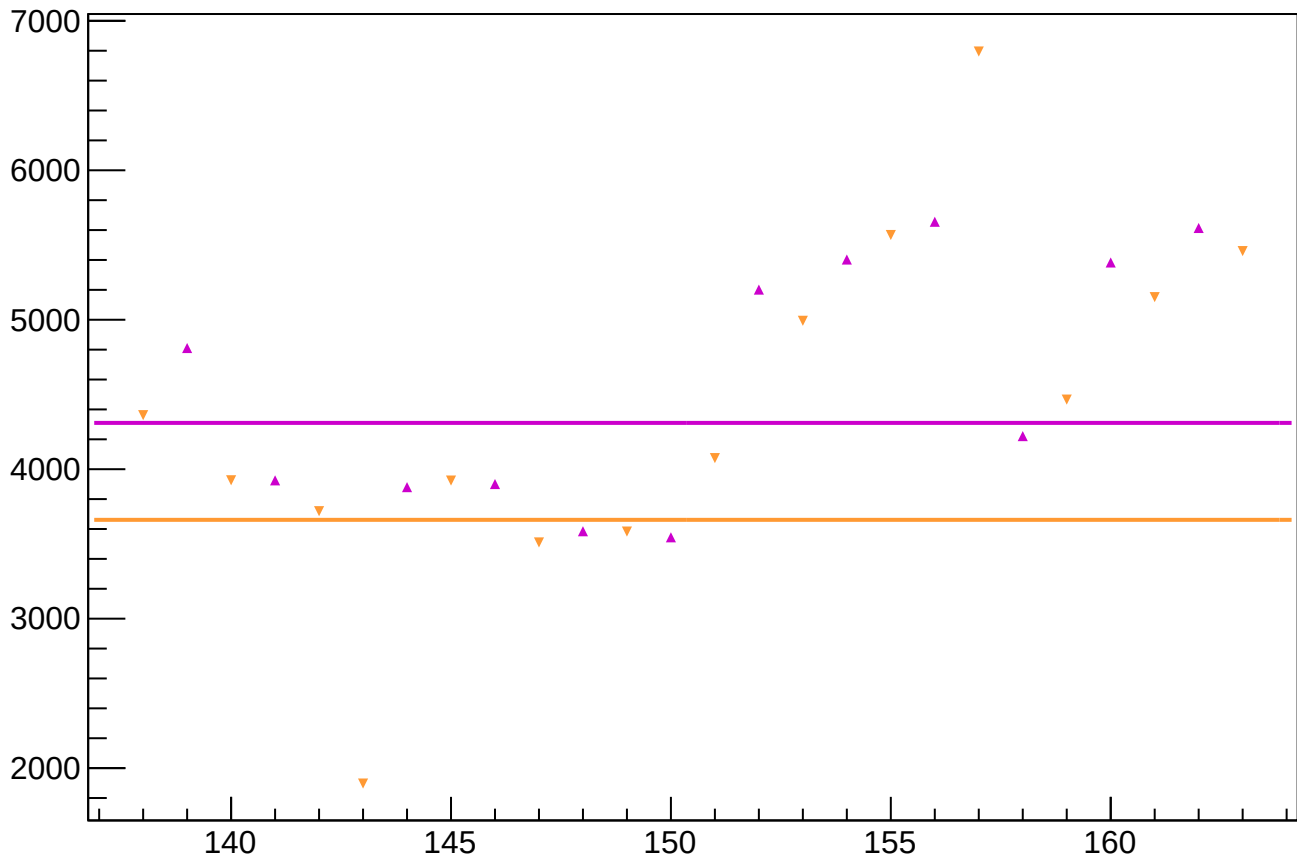
Left In: 1195.845 $\pm$ 1398.457  $\chi^2$ /NDF:9.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 419.634 $\pm$ 910.655  $\chi^2$ /NDF: 30.8/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3661.228+/-0.848  $\chi^2/\text{NDF}$ : 2177157.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4309.856+/-0.989  $\chi^2/\text{NDF}$ : 569639.2/11

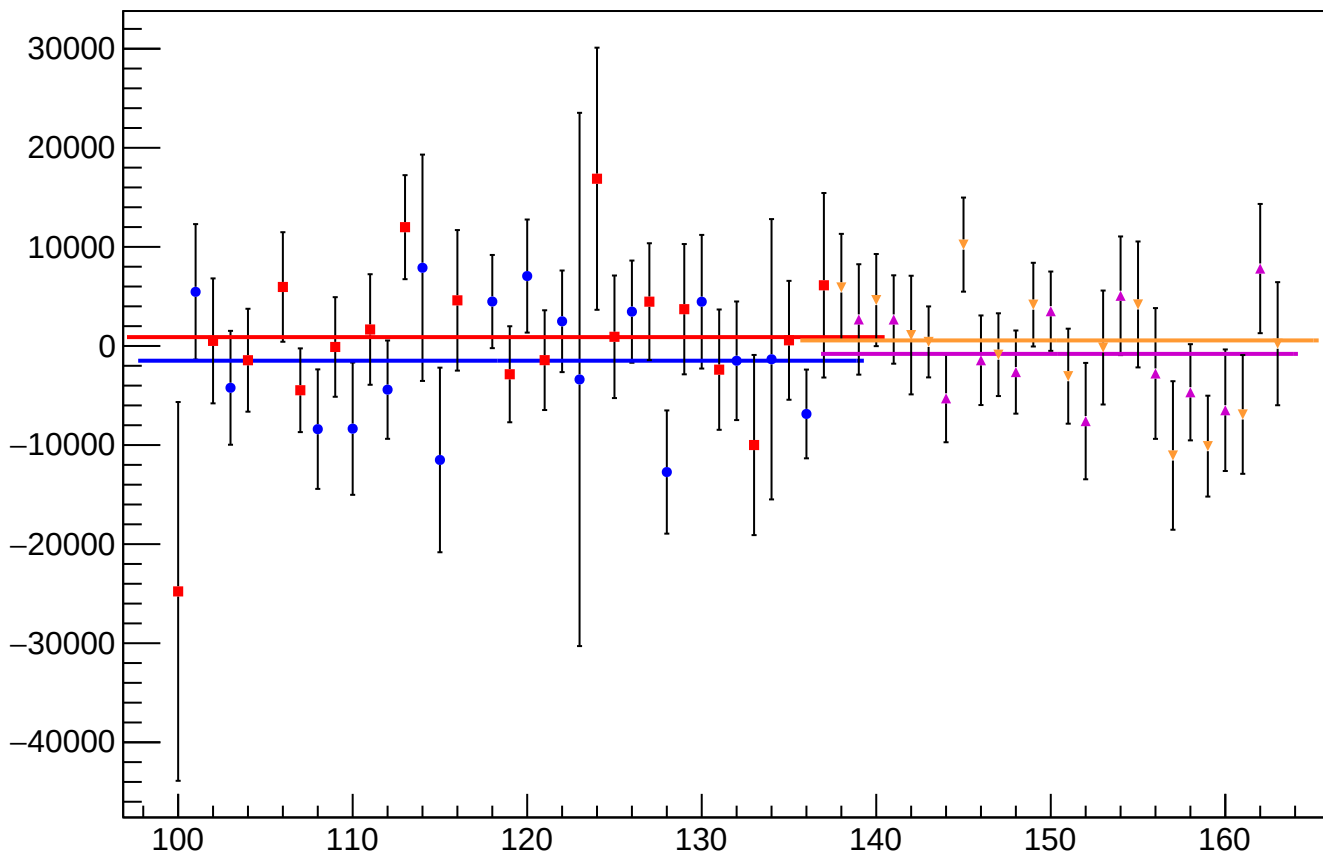
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3936.274+/-0.644  $\chi^2/\text{NDF}$ : 2994603.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug



Right In:  $-1487.038 \pm 1499.116$   $\chi^2/\text{NDF}$ : 16.7/16

Left Out:  $560.438 \pm 1345.124$   $\chi^2/\text{NDF}$ : 16.0/13

Right Out:  $894.160 \pm 1378.910$   $\chi^2/\text{NDF}$ : 14.1/18

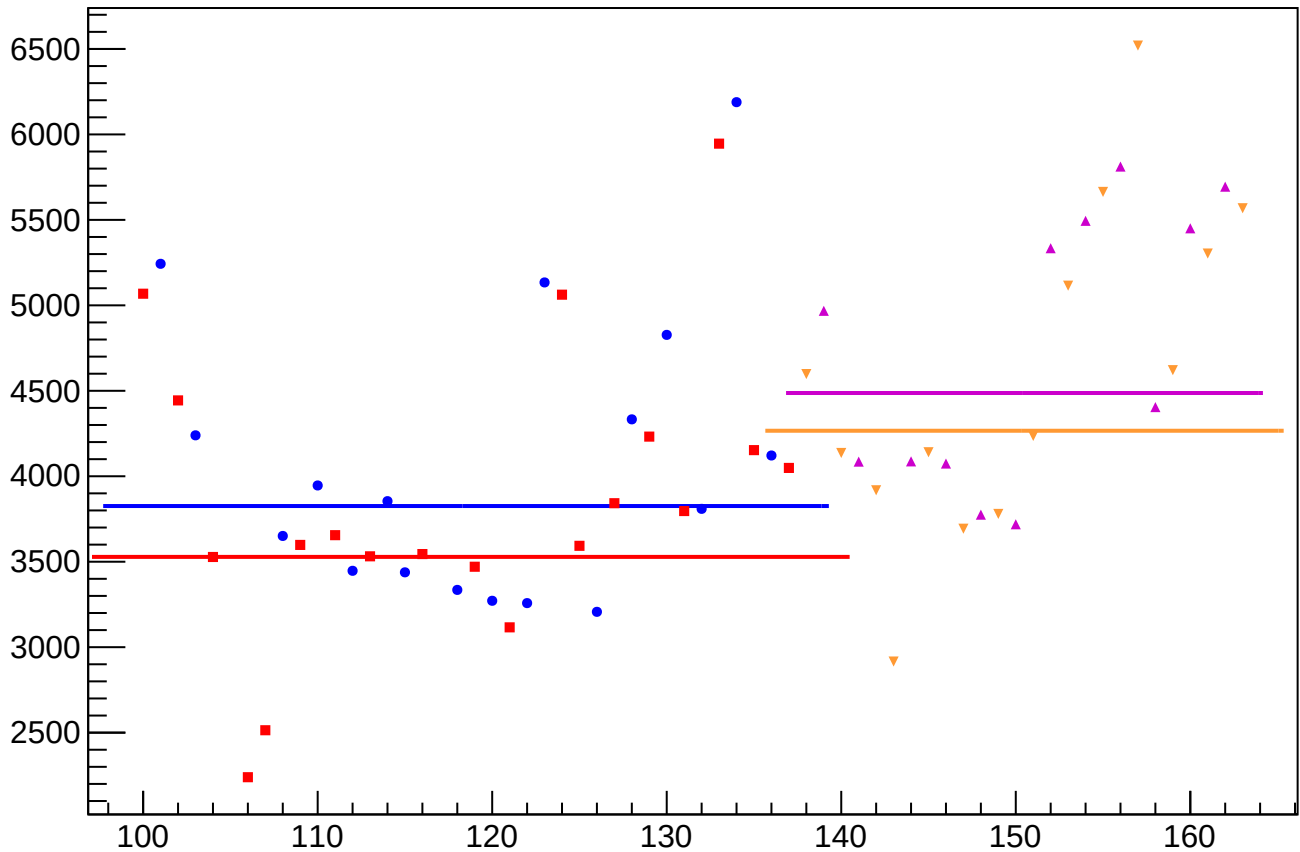
Left In:  $-798.896 \pm 1452.706$   $\chi^2/\text{NDF}$ : 9.0/11

+ sign  $-352.770 \pm 1001.177$   $\chi^2/\text{NDF}$ : 33.7/30

All:  $-130.285 \pm 707.560$   $\chi^2/\text{NDF}$ : 57.7/61

- sign  $91.726 \pm 1000.108$   $\chi^2/\text{NDF}$ : 23.9/30

# asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug



Right In: 3825.844+/-1.060  $\chi^2/\text{NDF}$ : 334404.3/16

Left Out: 4266.314+/-0.951  $\chi^2/\text{NDF}$ :844100.6/13

Right Out: 3528.289+/-0.966  $\chi^2/\text{NDF}$ : 555414.1/18

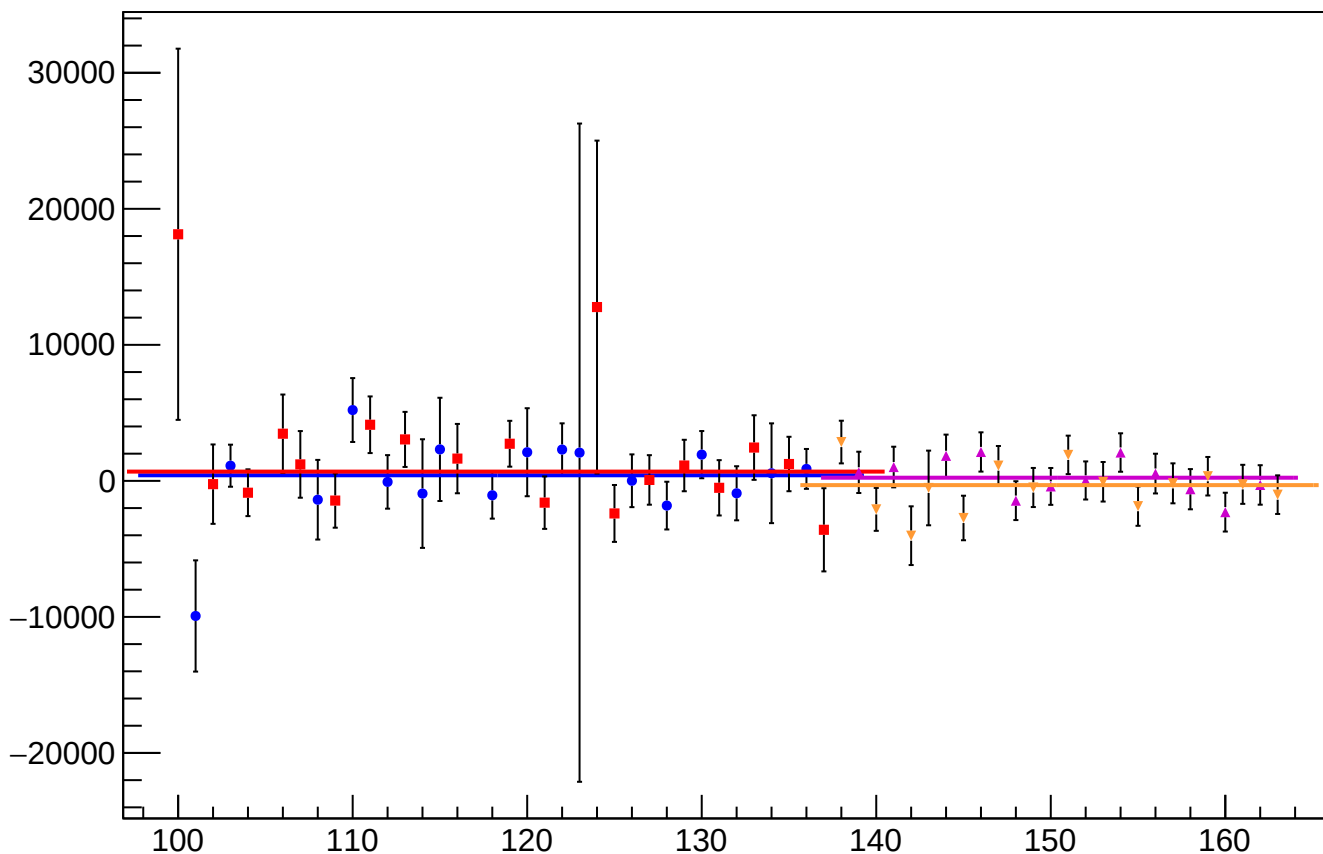
Left In: 4487.131+/-1.027  $\chi^2/\text{NDF}$ :492473.6/11

+ sign 4069.852+/-0.708  $\chi^2/\text{NDF}$ : 1274158.9/30

All: 4023.844+/-0.499  $\chi^2/\text{NDF}$ : 2792752.5/63

- sign 3978.375+/-0.704  $\chi^2/\text{NDF}$ : 1510196.0/30

# dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In: 411.419 $\pm$ 527.980  $\chi^2$ /NDF: 16.5/16

Left Out: -312.114 $\pm$ 412.055  $\chi^2$ /NDF:15.6/13

Right Out: 682.176 $\pm$ 510.196  $\chi^2$ /NDF: 18.0/18

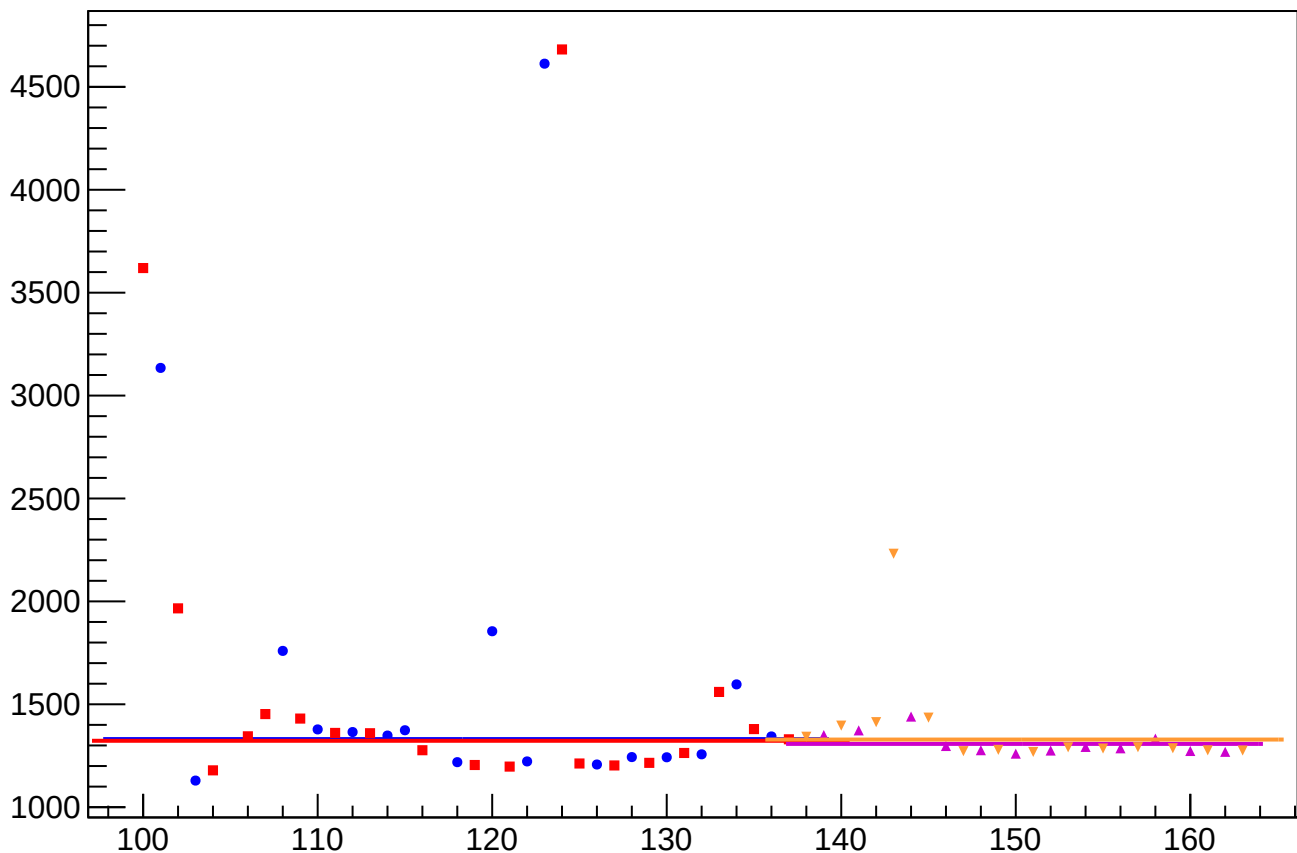
Left In: 232.635 $\pm$ 418.440  $\chi^2$ /NDF:10.1/11

+ sign -38.237 $\pm$ 324.838  $\chi^2$ /NDF: 33.3/30

All: 188.493 $\pm$ 229.235  $\chi^2$ /NDF: 62.9/61

- sign 413.417 $\pm$ 323.542  $\chi^2$ /NDF: 28.6/30

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1330.889+/-0.373  $\chi^2/\text{NDF}$ : 603474.5/16

Left Out: 1328.680+/-0.291  $\chi^2/\text{NDF}$ : 252651.8/13

Right Out: 1322.706+/-0.361  $\chi^2/\text{NDF}$ : 394413.6/18

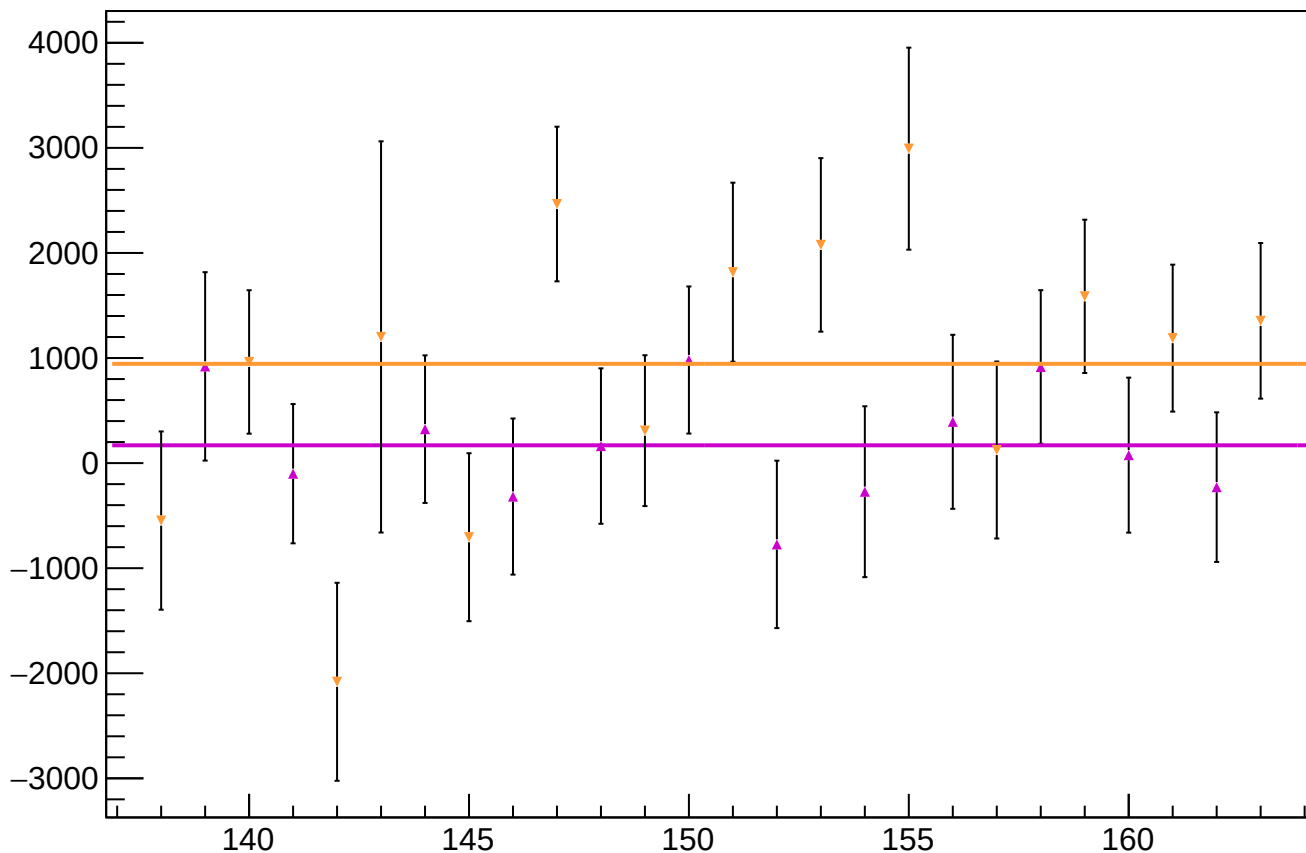
Left In: 1307.528+/-0.296  $\chi^2/\text{NDF}$ : 28290.2/11

+ sign 1329.516+/-0.230  $\chi^2/\text{NDF}$ : 856148.0/30

All: 1321.542+/-0.162  $\chi^2/\text{NDF}$ : 1282310.7/63

- sign 1313.632+/-0.229  $\chi^2/\text{NDF}$ : 423762.0/30

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 944.574 $\pm$ 216.226  $\chi^2$ /NDF:32.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

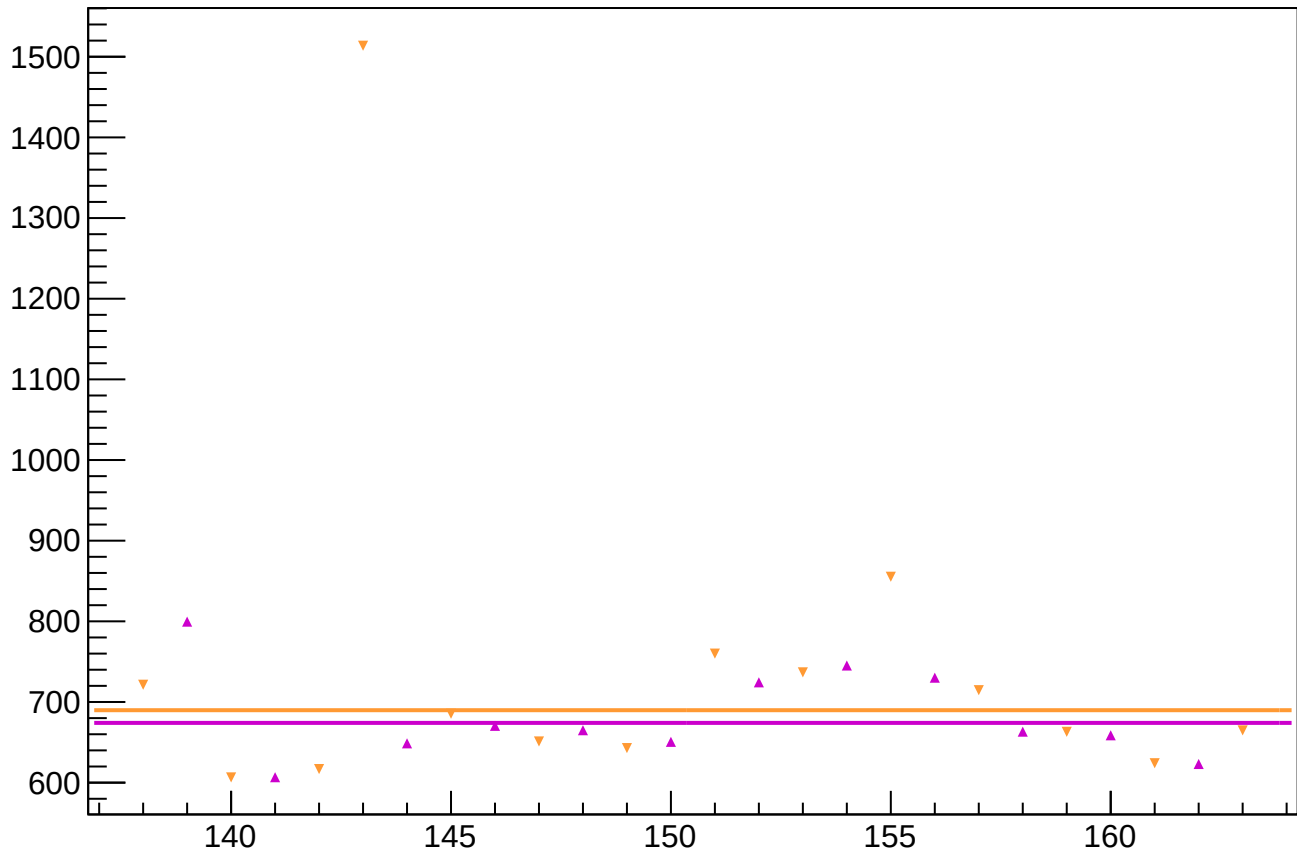
Left In: 169.427 $\pm$ 215.878  $\chi^2$ /NDF:5.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 556.376 $\pm$ 152.772  $\chi^2$ /NDF: 44.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 689.812+/-0.153  $\chi^2/\text{NDF}$ :554114.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

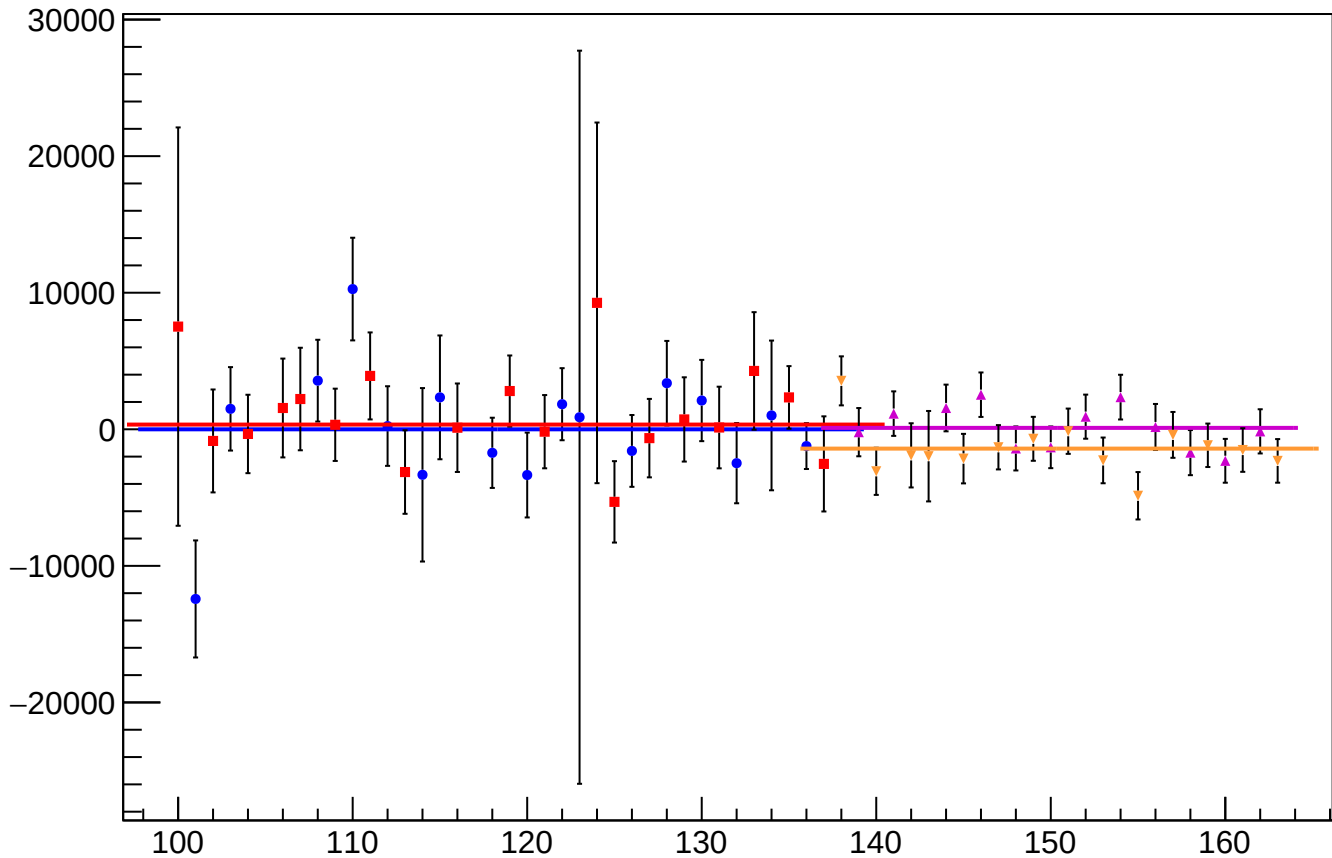
Left In: 674.081+/-0.153  $\chi^2/\text{NDF}$ :109067.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 681.934+/-0.108  $\chi^2/\text{NDF}$ : 668483.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug



Right In:  $-2.204 \pm 745.061$   $\chi^2/\text{NDF}$ : 23.5/16

Left Out:  $-1414.370 \pm 467.470$   $\chi^2/\text{NDF}$ : 14.5/13

Right Out:  $345.148 \pm 733.723$   $\chi^2/\text{NDF}$ : 10.7/18

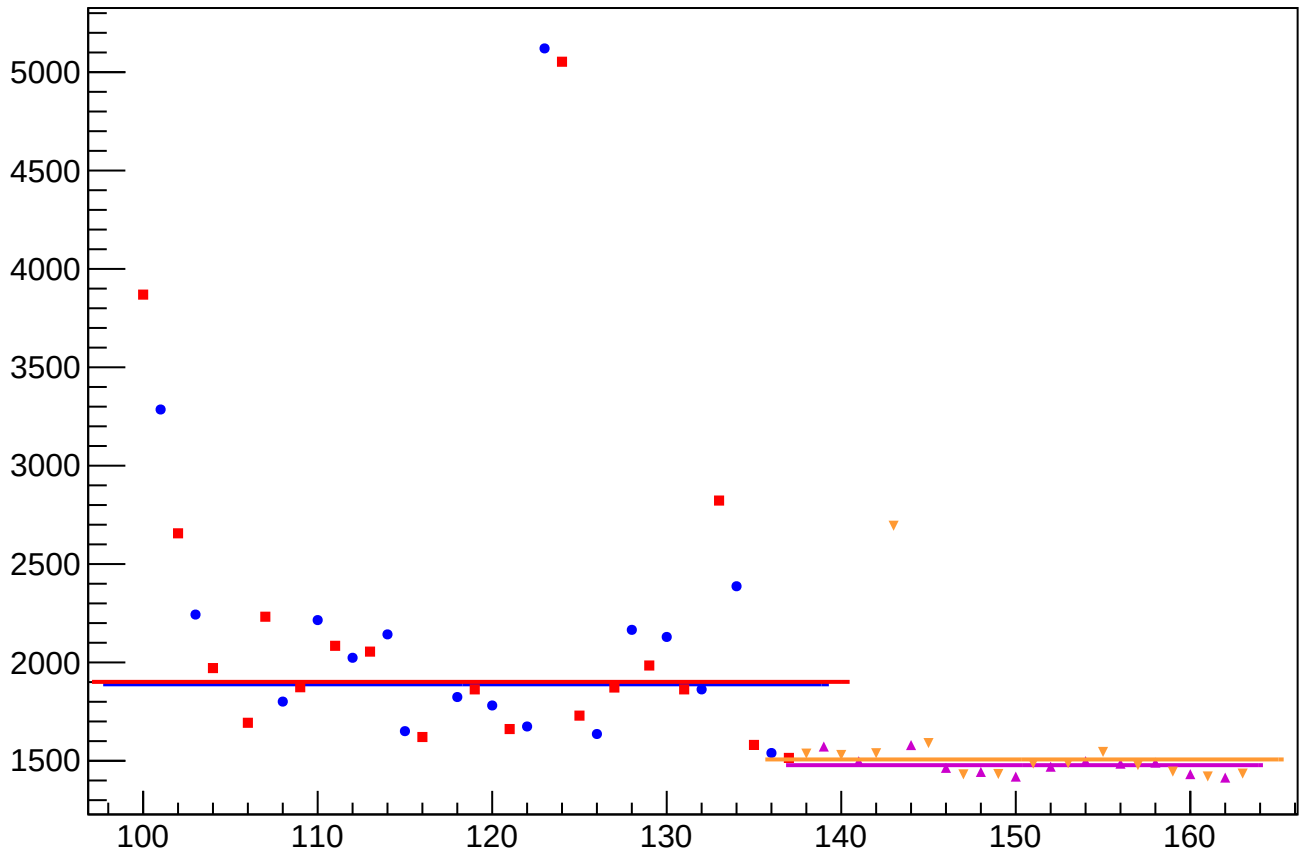
Left In:  $103.231 \pm 472.678$   $\chi^2/\text{NDF}$ : 10.8/11

+ sign  $-1015.482 \pm 395.981$   $\chi^2/\text{NDF}$ : 40.6/30

All:  $-422.716 \pm 280.487$   $\chi^2/\text{NDF}$ : 66.7/61

- sign  $174.184 \pm 397.360$   $\chi^2/\text{NDF}$ : 21.6/30

# asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug



Right In: 1888.810+/-0.527  $\chi^2/\text{NDF}$ : 465842.8/16

Left Out: 1506.951+/-0.331  $\chi^2/\text{NDF}$ : 286540.1/13

+ sign 1614.814+/-0.280  $\chi^2/\text{NDF}$ : 1129347.6/30

Right Out: 1901.248+/-0.519  $\chi^2/\text{NDF}$ : 461424.3/18

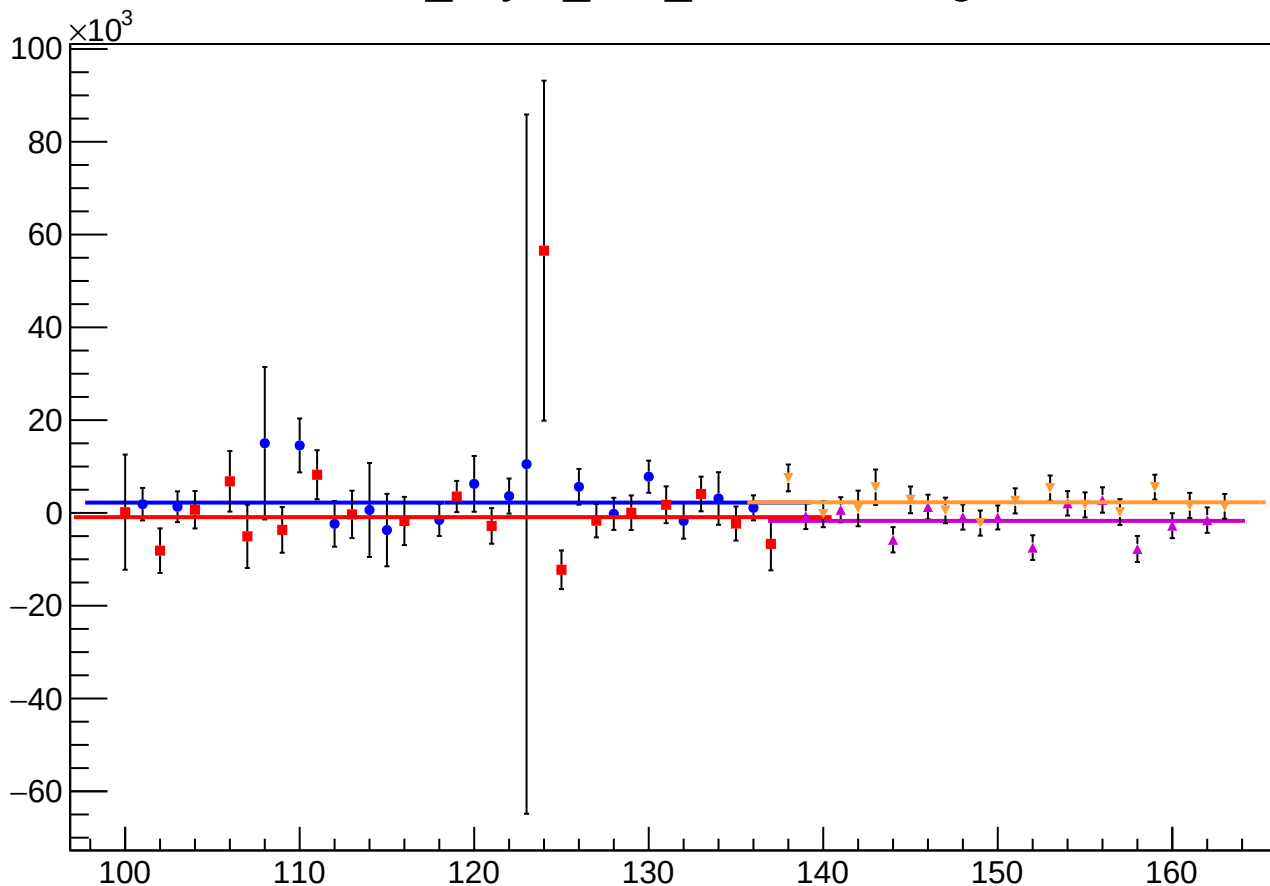
All: 1608.452+/-0.198  $\chi^2/\text{NDF}$ : 2084737.3/63

- sign 1602.045+/-0.281  $\chi^2/\text{NDF}$ : 954353.5/30

Left In: 1477.867+/-0.334  $\chi^2/\text{NDF}$ : 22304.0/11



# dit\_asym\_atl1\_mean vs Slug



Right In: 2227.517 $\pm$ 1039.288  $\chi^2$ /NDF: 13.6/16

Left Out: 2296.171 $\pm$ 761.671  $\chi^2$ /NDF:11.7/13

Right Out: -907.837 $\pm$ 1046.878  $\chi^2$ /NDF: 22.9/18

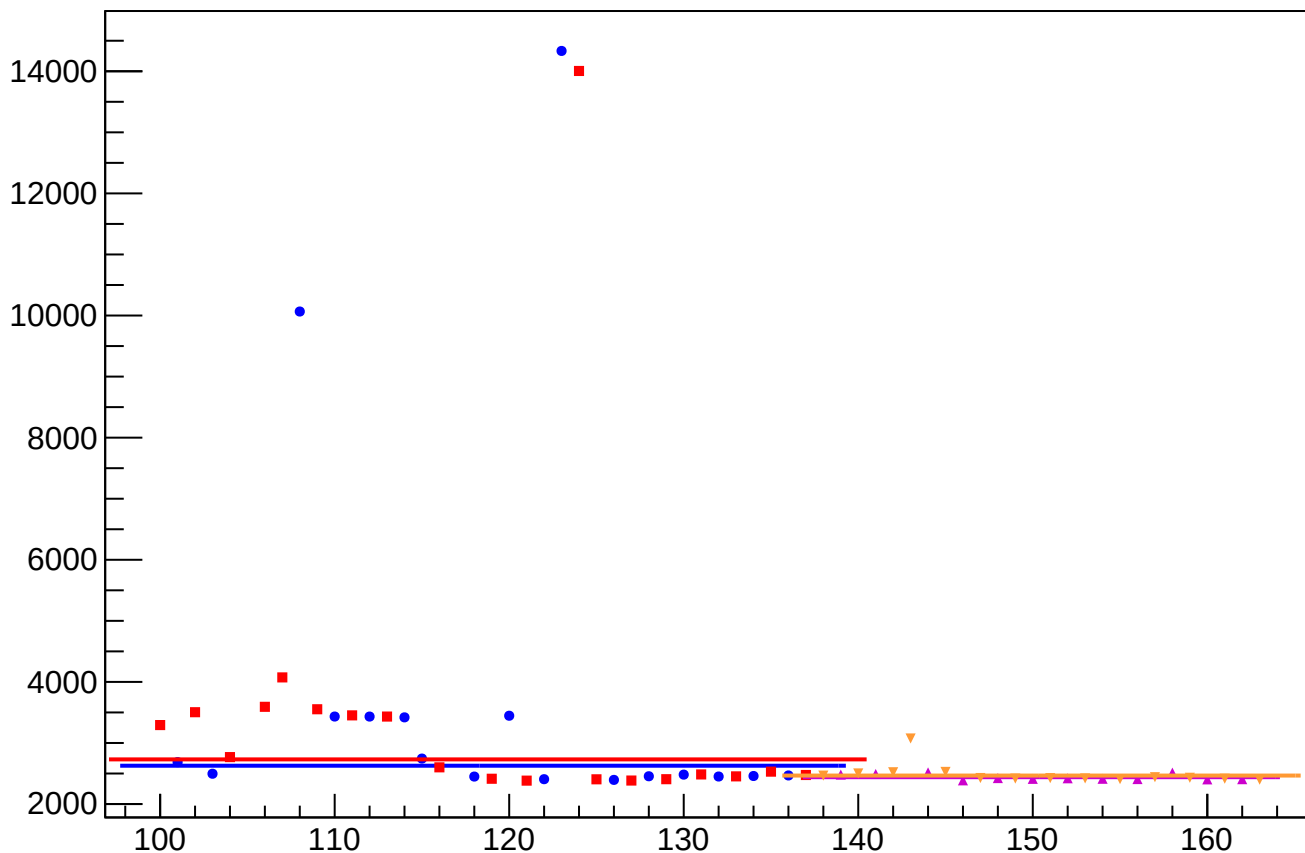
Left In: -1713.176 $\pm$ 780.498  $\chi^2$ /NDF:18.8/11

+ sign 2272.182 $\pm$ 614.349  $\chi^2$ /NDF: 25.3/30

All: 457.303 $\pm$ 438.380  $\chi^2$ /NDF: 85.2/61

- sign -1425.460 $\pm$ 625.733  $\chi^2$ /NDF: 42.1/30

# dit\_asym\_atl1\_rms vs Slug



Right In: 2627.570+/-0.735  $\chi^2/\text{NDF}$ : 644396.7/16

Left Out: 2466.429+/-0.539  $\chi^2/\text{NDF}$ : 57937.4/13

Right Out: 2731.271+/-0.740  $\chi^2/\text{NDF}$ : 598207.5/18

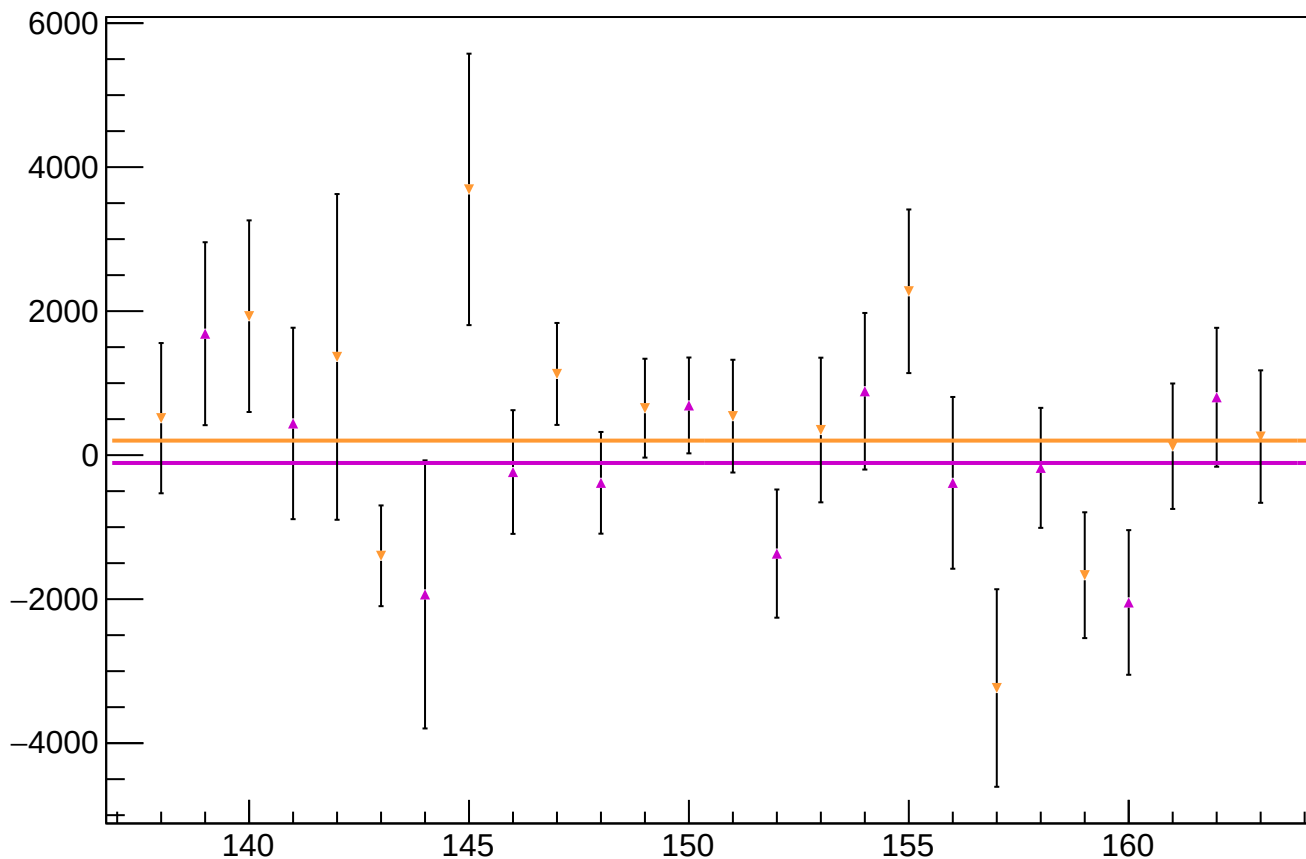
Left In: 2439.757+/-0.552  $\chi^2/\text{NDF}$ : 6482.2/11

+ sign 2522.737+/-0.434  $\chi^2/\text{NDF}$ : 733613.8/30

All: 2533.126+/-0.310  $\chi^2/\text{NDF}$ : 1439144.9/63

- sign 2543.903+/-0.442  $\chi^2/\text{NDF}$ : 704365.8/30

# asym\_atl1\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 201.935+/-251.115  $\chi^2/\text{NDF}$ : 27.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

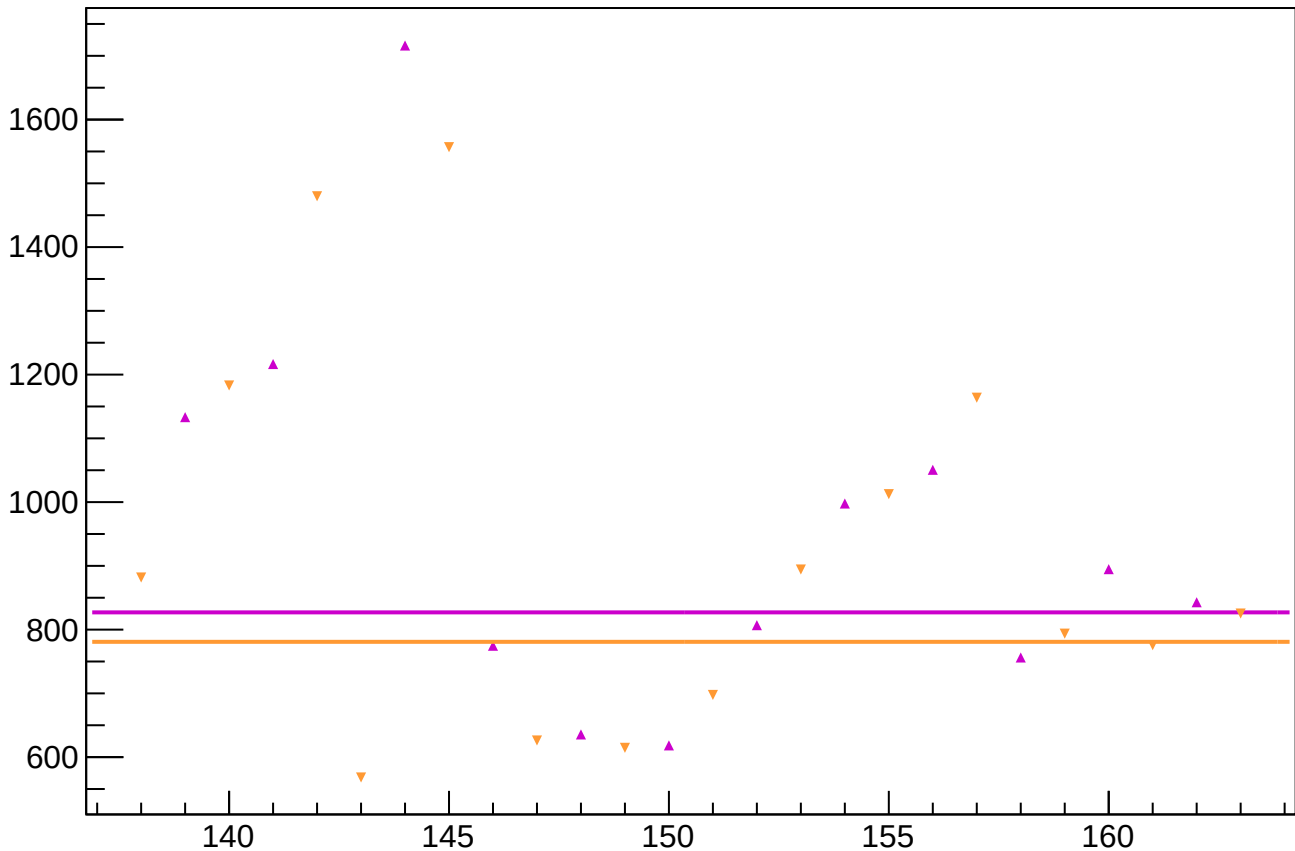
Left In: -108.686+/-273.104  $\chi^2/\text{NDF}$ : 12.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 59.631+/-184.851  $\chi^2/\text{NDF}$ : 40.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 780.859+/-0.178  $\chi^2/\text{NDF}$ : 1421202.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

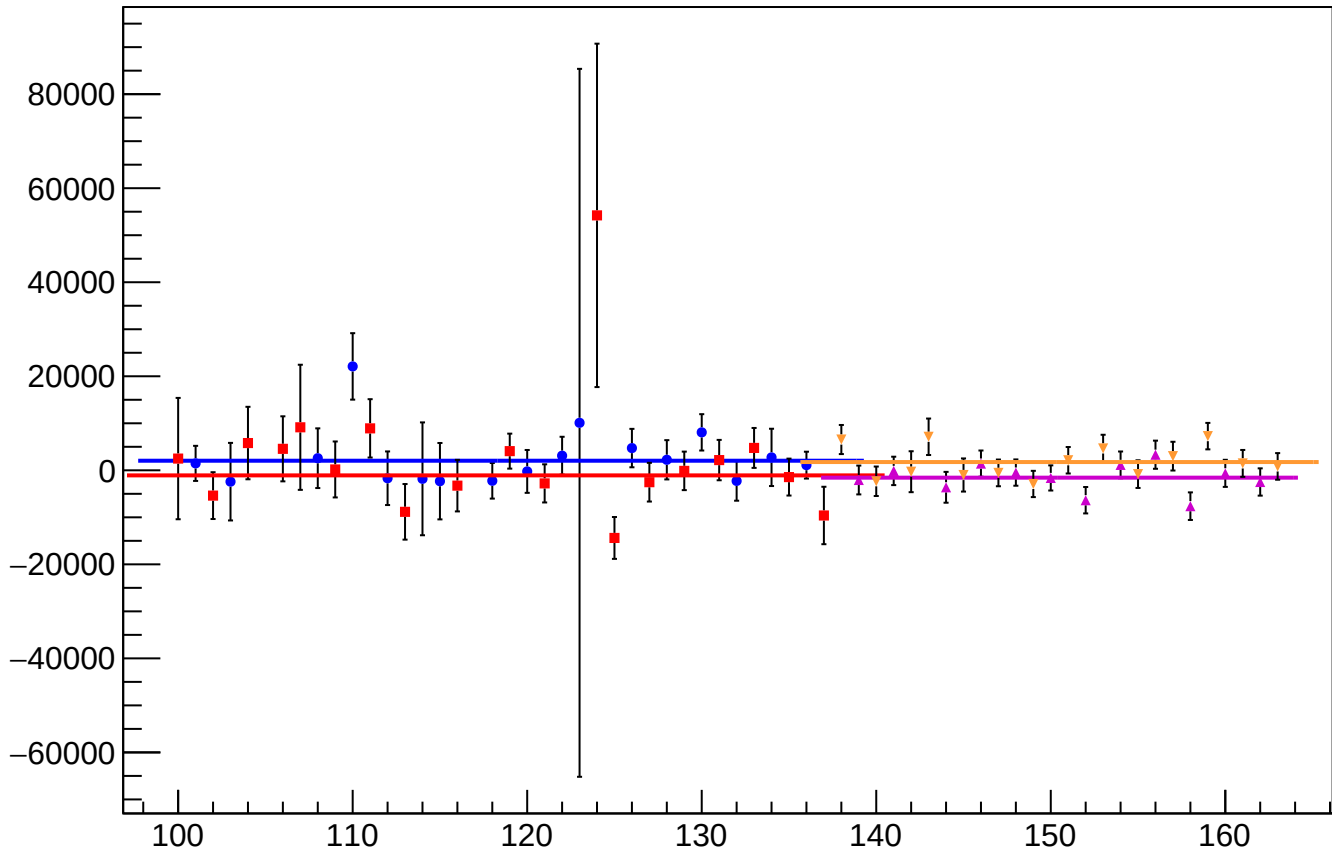
Left In: 827.051+/-0.193  $\chi^2/\text{NDF}$ : 1239702.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 802.021+/-0.131  $\chi^2/\text{NDF}$ : 2691908.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl1\_mean vs Slug



Right In: 2037.803+/-1151.419  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: 1757.305+/-816.749  $\chi^2/\text{NDF}$ : 16.2/13

+ sign 1851.198+/-666.171  $\chi^2/\text{NDF}$ : 31.1/30

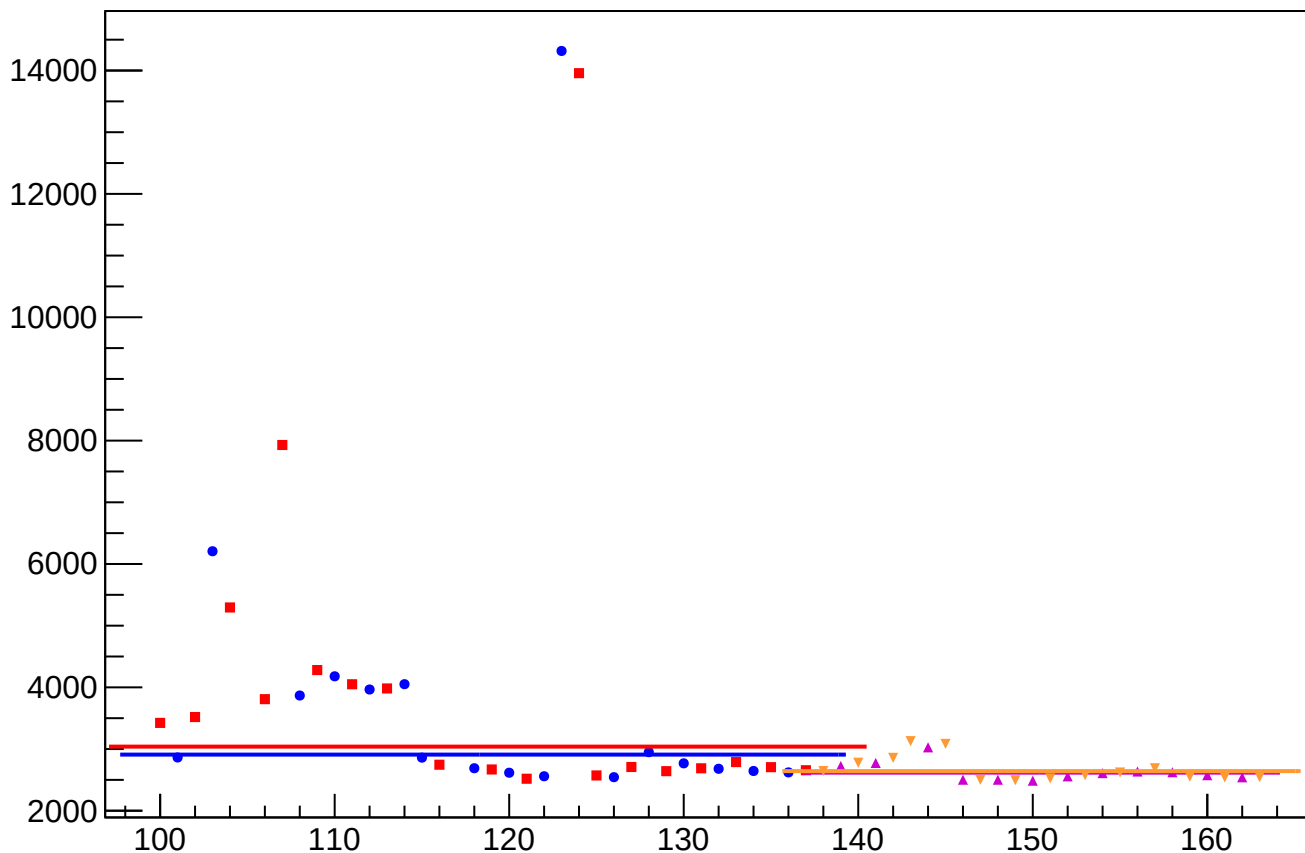
Right Out: -1080.125+/-1186.666  $\chi^2/\text{NDF}$ : 25.3/18

All: 268.259+/-477.463  $\chi^2/\text{NDF}$ : 81.0/61

- sign -1403.864+/-684.680  $\chi^2/\text{NDF}$ : 38.3/30

Left In: -1565.420+/-838.287  $\chi^2/\text{NDF}$ : 12.9/11

# asym\_atl1\_rms vs Slug



Right In: 2909.732+/-0.814  $\chi^2/\text{NDF}$ : 641894.7/16

Left Out: 2642.181+/-0.578  $\chi^2/\text{NDF}$ : 94063.2/13

Right Out: 3039.118+/-0.839  $\chi^2/\text{NDF}$ : 1011306.5/18

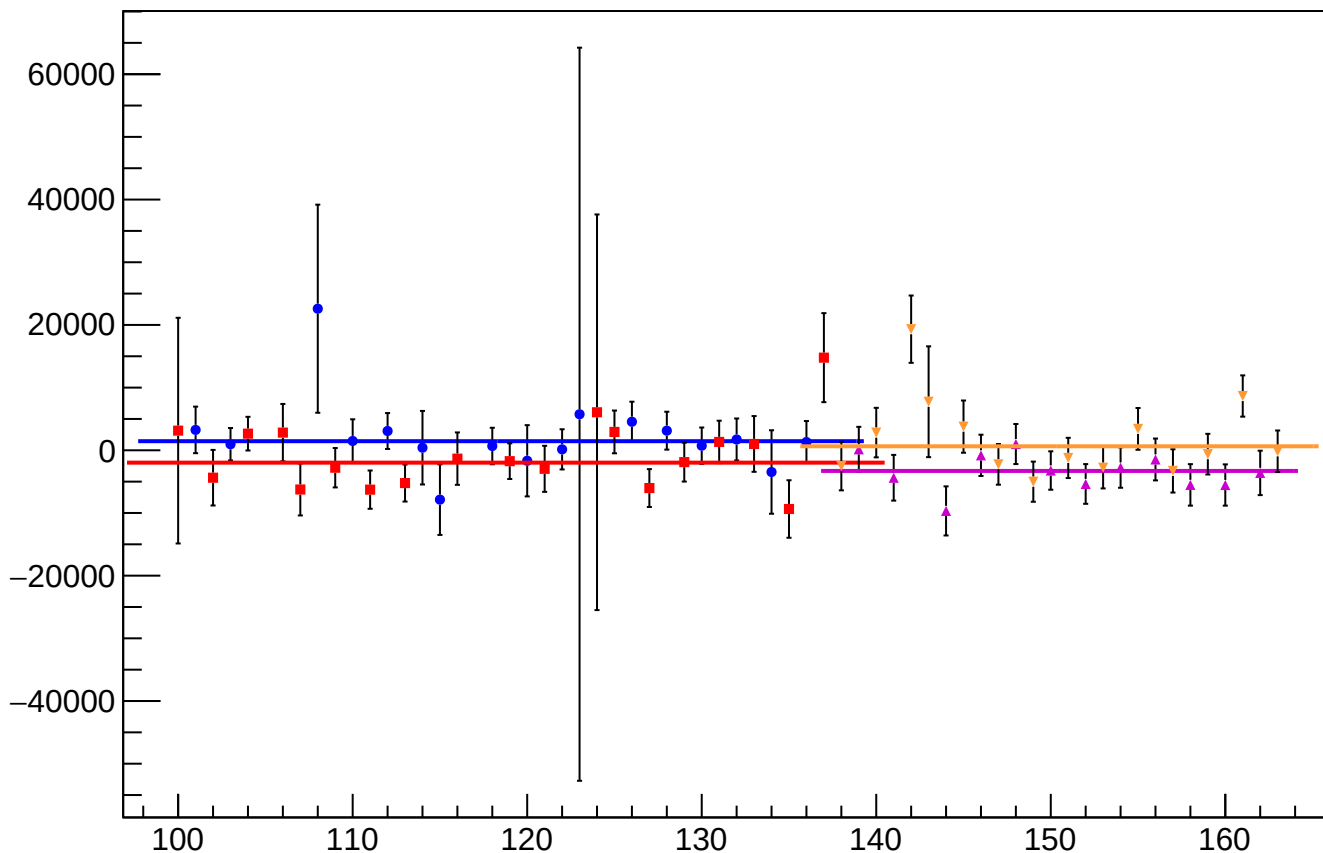
Left In: 2616.945+/-0.593  $\chi^2/\text{NDF}$ : 53458.8/11

+ sign 2731.740+/-0.471  $\chi^2/\text{NDF}$ : 807798.9/30

All: 2744.261+/-0.338  $\chi^2/\text{NDF}$ : 2042883.4/63

- sign 2757.487+/-0.484  $\chi^2/\text{NDF}$ : 1233631.6/30

# dit\_asym\_atl2\_mean vs Slug



Right In: 1451.980 $\pm$ 889.008  $\chi^2$ /NDF: 7.4/16

Left Out: 639.100 $\pm$ 967.178  $\chi^2$ /NDF: 27.7/13

Right Out: -1969.182 $\pm$ 850.490  $\chi^2$ /NDF: 22.4/18

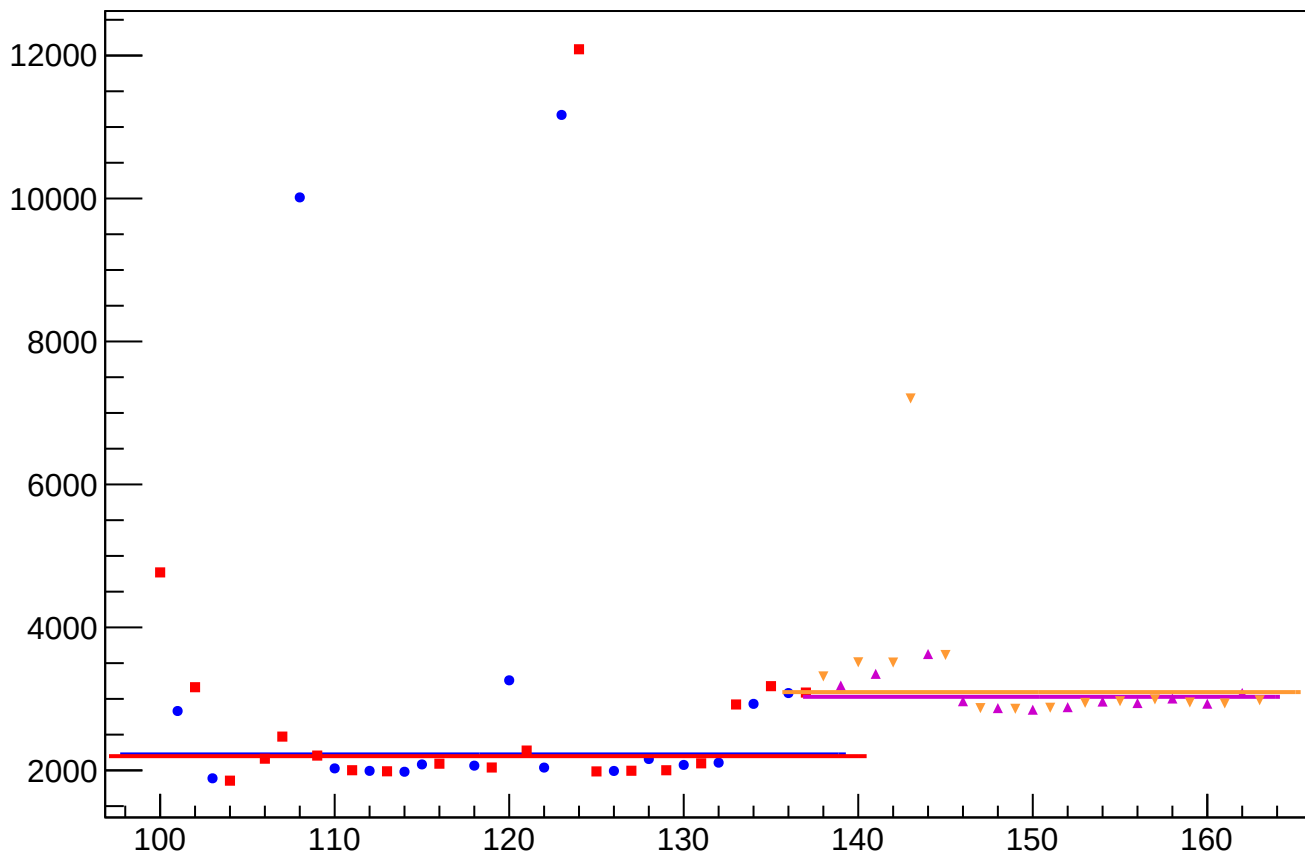
Left In: -3293.283 $\pm$ 969.633  $\chi^2$ /NDF: 7.7/11

+ sign 1079.712 $\pm$ 654.517  $\chi^2$ /NDF: 35.5/30

All: -774.992 $\pm$ 457.370  $\chi^2$ /NDF: 82.3/61

- sign -2544.928 $\pm$ 639.385  $\chi^2$ /NDF: 31.2/30

dit\_asym\_atl2\_rms vs Slug



Right In: 2223.132+/-0.629  $\chi^2/\text{NDF}$ : 850289.4/16

Left Out: 3094.940+/-0.684  $\chi^2/\text{NDF}$ : 552857.7/13

Right Out: 2198.760+/-0.601  $\chi^2/\text{NDF}$ : 602418.1/18

Left In: 3028.928+/-0.686  $\chi^2/\text{NDF}$ : 87197.0/11

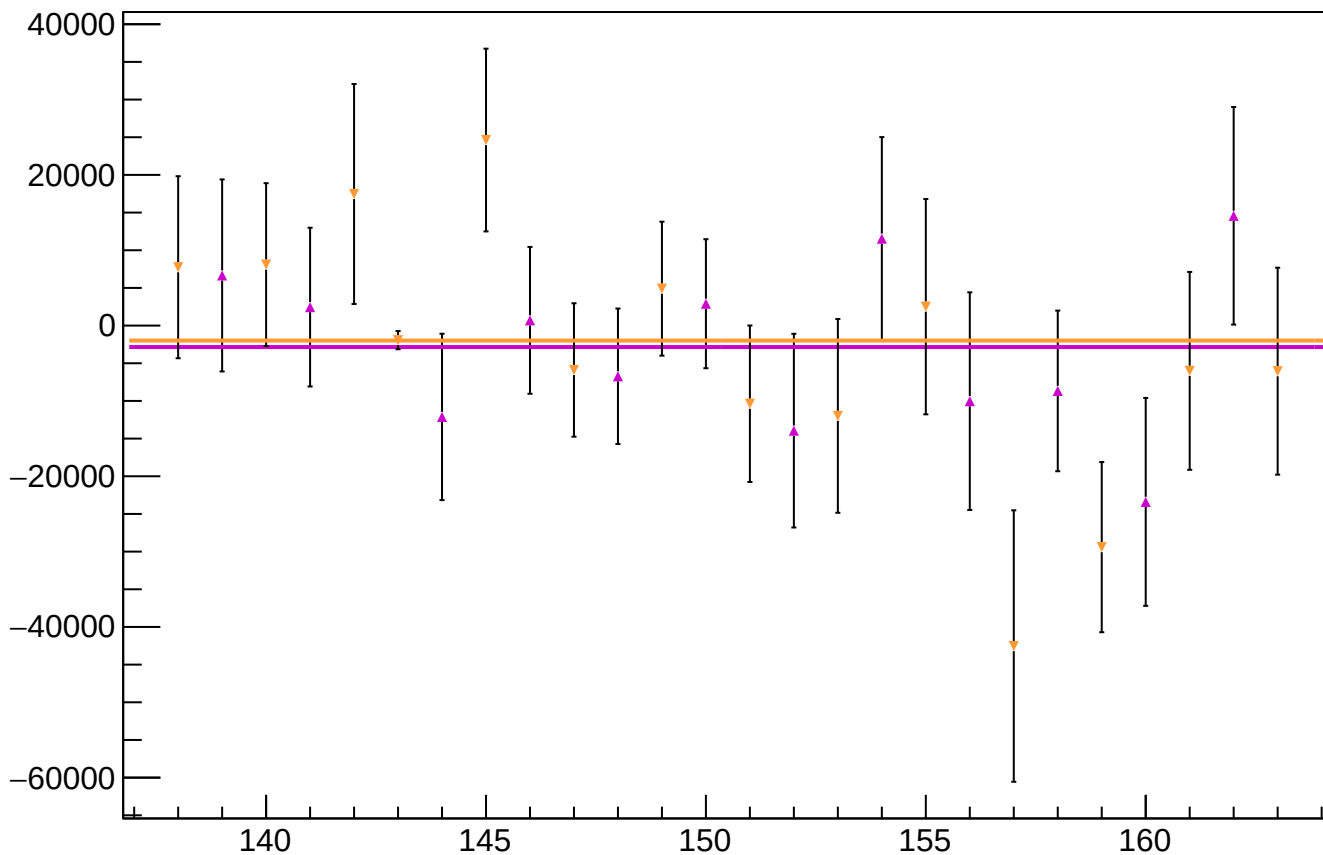
+ sign 2622.386+/-0.463  $\chi^2/\text{NDF}$ : 2283972.0/30

All: 2590.163+/-0.323  $\chi^2/\text{NDF}$ : 3812157.2/63

- sign 2559.438+/-0.452  $\chi^2/\text{NDF}$ : 1518715.6/30



# asym\_atl2\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1988.414+/-1132.958  $\chi^2/\text{NDF}$ : 21.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

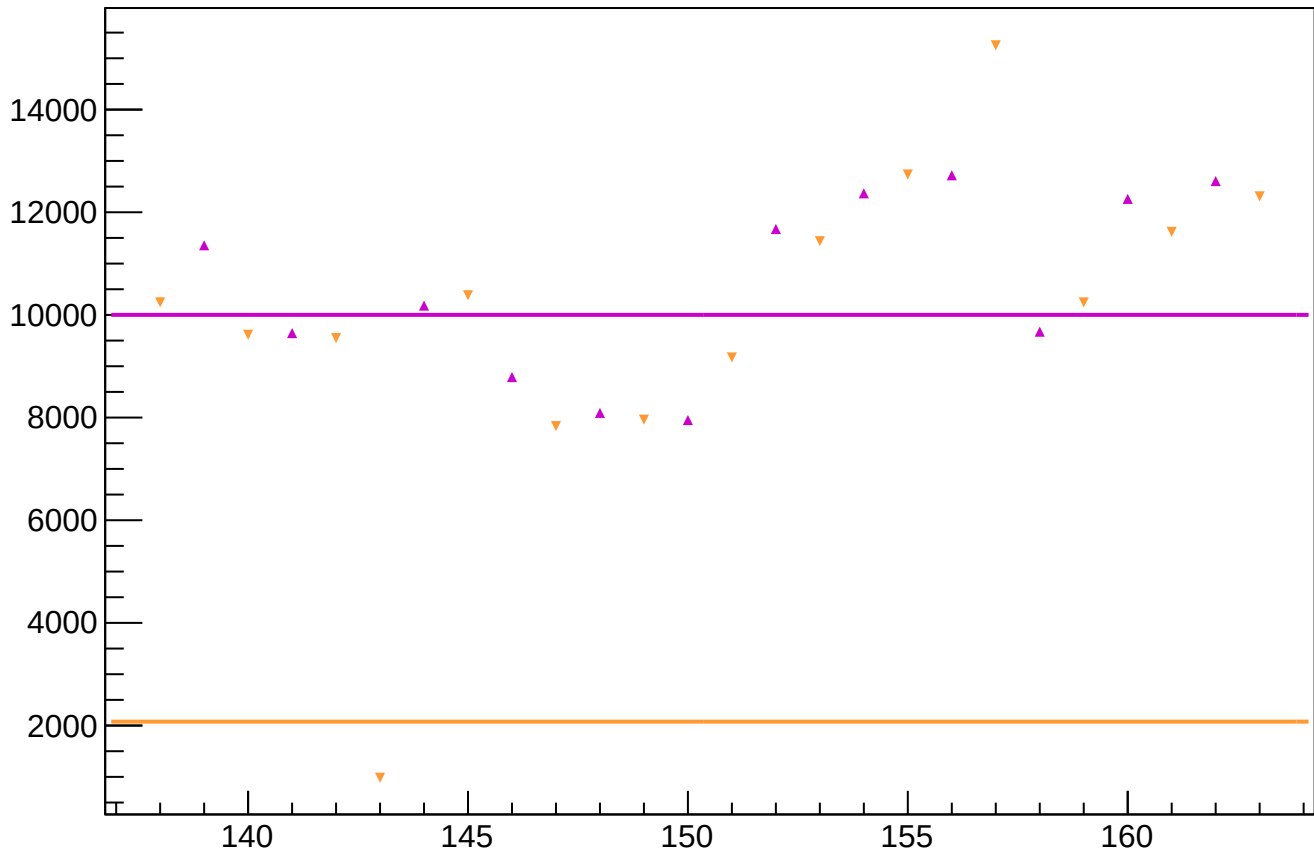
Left In: -2848.980+/-3242.526  $\chi^2/\text{NDF}$ : 8.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2082.045+/-1069.550  $\chi^2/\text{NDF}$ : 29.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2076.510+/-0.801  $\chi^2/\text{NDF}$ :14094903.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

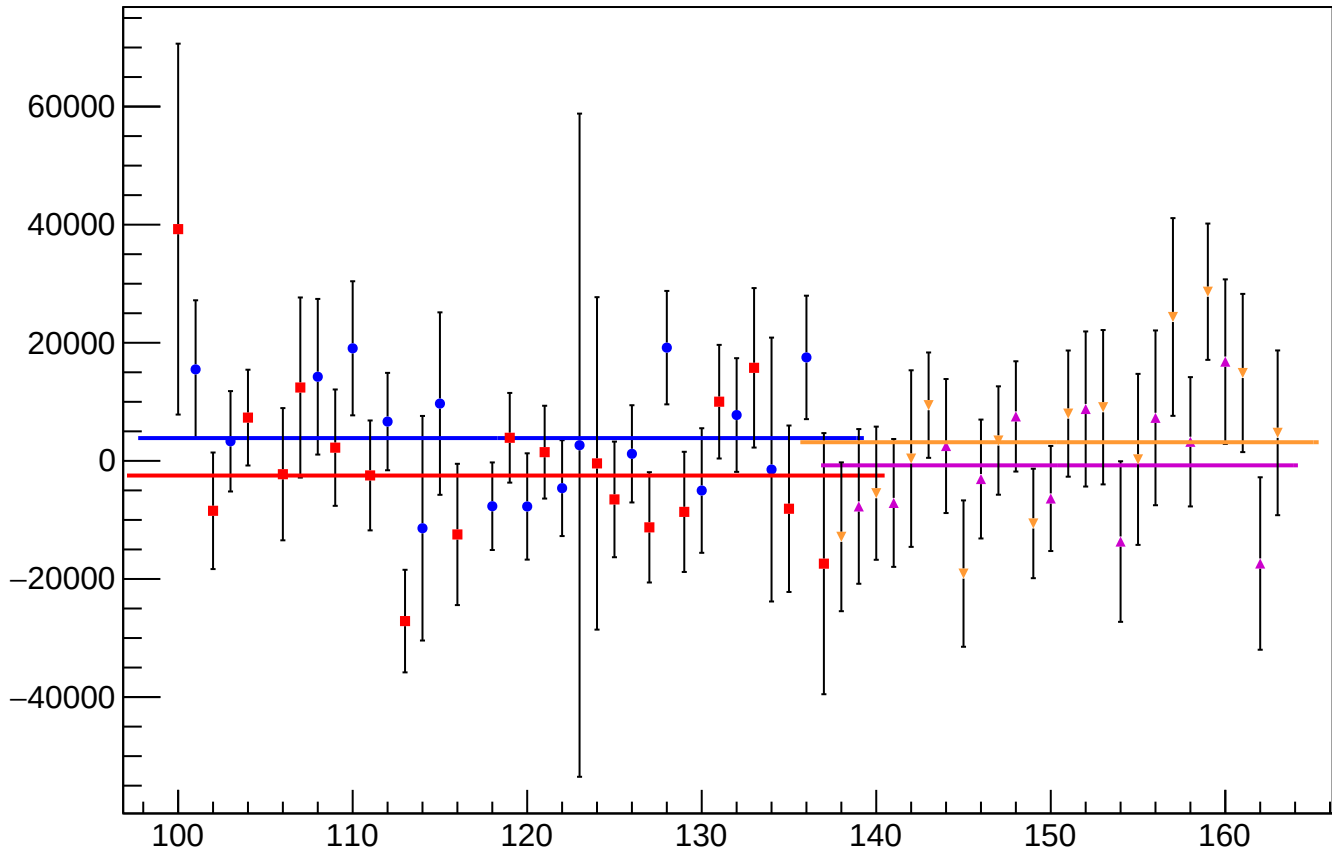
Left In: 10000.757+/-2.293  $\chi^2/\text{NDF}$ :548357.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2938.680+/-0.756  $\chi^2/\text{NDF}$ : 25288455.2/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atl2\_mean vs Slug



Right In: 3859.866+/-2508.782  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: 3157.873+/-3125.053  $\chi^2/\text{NDF}$ : 15.9/13

Right Out: -2482.925+/-2421.310  $\chi^2/\text{NDF}$ : 20.0/18

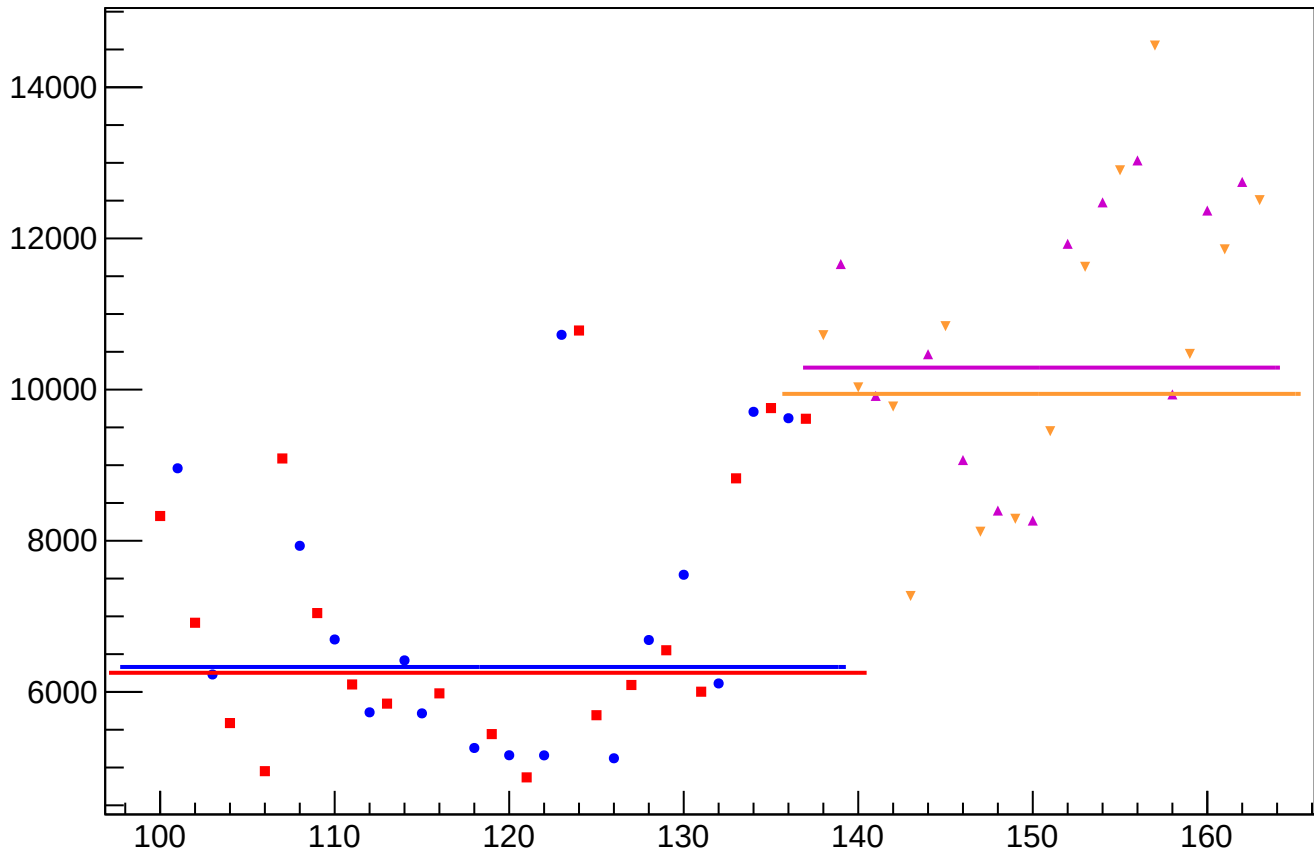
Left In: -757.329+/-3332.536  $\chi^2/\text{NDF}$ : 6.7/11

+ sign 3584.751+/-1956.358  $\chi^2/\text{NDF}$ : 30.7/30

All: 852.509+/-1384.237  $\chi^2/\text{NDF}$ : 61.5/61

- sign -1886.720+/-1958.858  $\chi^2/\text{NDF}$ : 26.9/30

# asym\_atl2\_rms vs Slug



Right In:  $6330.291 \pm 1.774$   $\chi^2/\text{NDF}$ : 593395.6/16

Left Out:  $9943.515 \pm 2.210$   $\chi^2/\text{NDF}$ : 725463.1/13

Right Out:  $6253.330 \pm 1.712$   $\chi^2/\text{NDF}$ : 535355.5/18

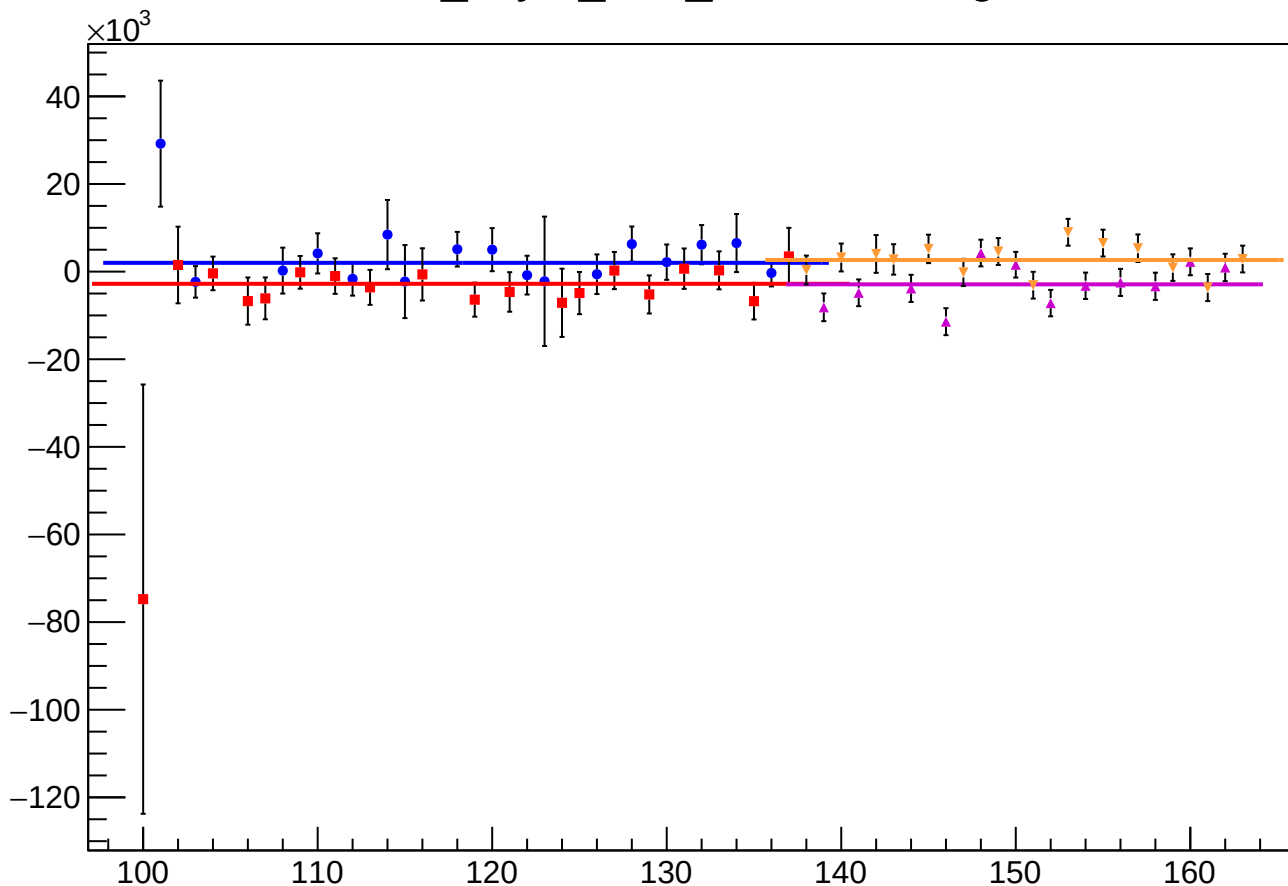
Left In:  $10290.876 \pm 2.356$   $\chi^2/\text{NDF}$ : 494365.0/11

+ sign  $7746.327 \pm 1.383$   $\chi^2/\text{NDF}$ : 2944696.4/30

All:  $7697.347 \pm 0.979$   $\chi^2/\text{NDF}$ : 5898400.4/63

- sign  $7648.244 \pm 1.385$   $\chi^2/\text{NDF}$ : 2951193.6/30

# dit\_asym\_atr1\_mean vs Slug



Right In: 2005.383+/-1134.240  $\chi^2/\text{NDF}$ : 12.1/16

Left Out: 2655.930+/-852.456  $\chi^2/\text{NDF}$ : 17.1/13

Right Out: -2781.006+/-1086.164  $\chi^2/\text{NDF}$ : 9.9/18

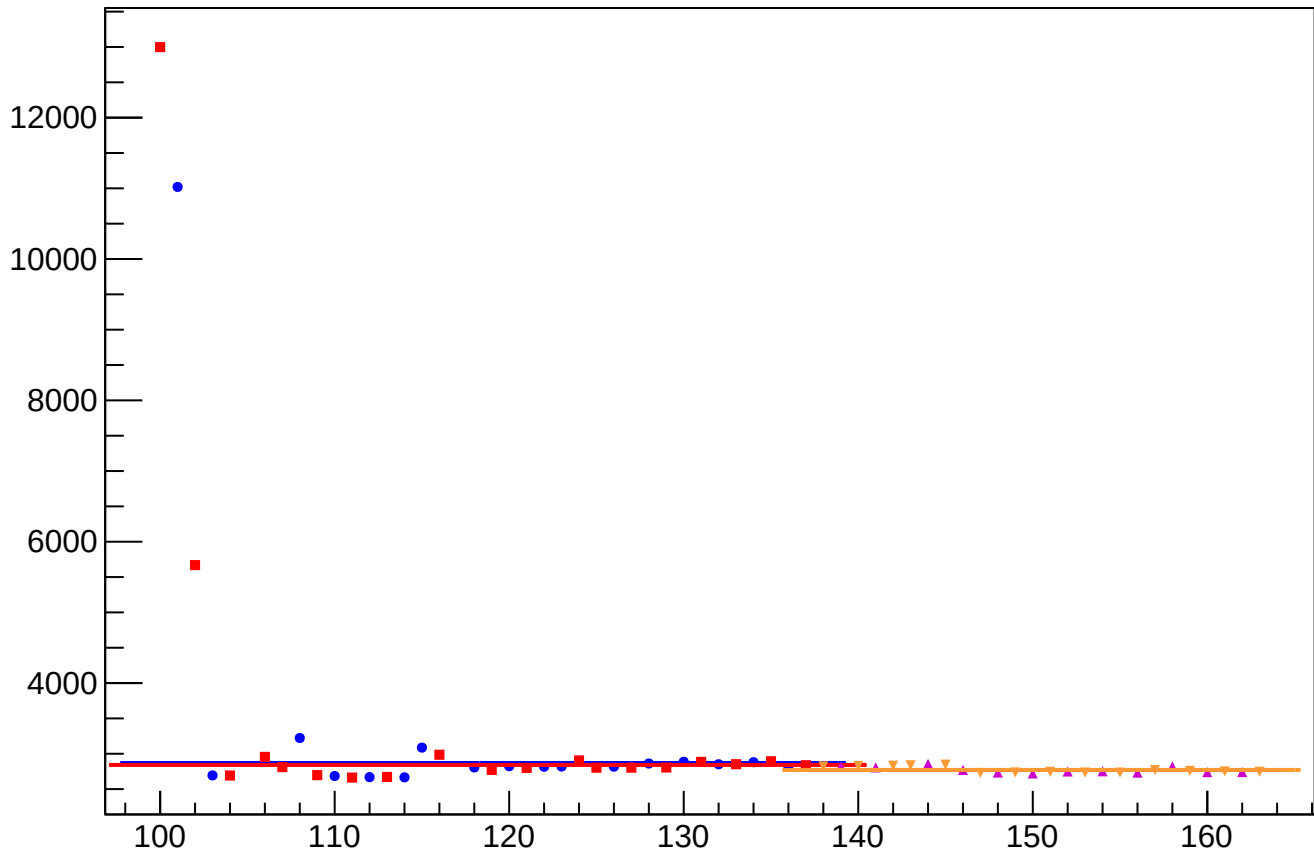
Left In: -2903.589+/-884.419  $\chi^2/\text{NDF}$ : 25.1/11

+ sign 2421.107+/-681.452  $\chi^2/\text{NDF}$ : 29.3/30

All: -199.955+/-483.396  $\chi^2/\text{NDF}$ : 94.2/61

- sign -2854.717+/-685.819  $\chi^2/\text{NDF}$ : 35.1/30

# dit\_asym\_atr1\_rms vs Slug



Right In: 2869.197+/-0.802  $\chi^2/\text{NDF}$ : 669900.5/16

Left Out: 2771.014+/-0.603  $\chi^2/\text{NDF}$ : 4903.7/13

Right Out: 2841.561+/-0.768  $\chi^2/\text{NDF}$ : 312523.0/18

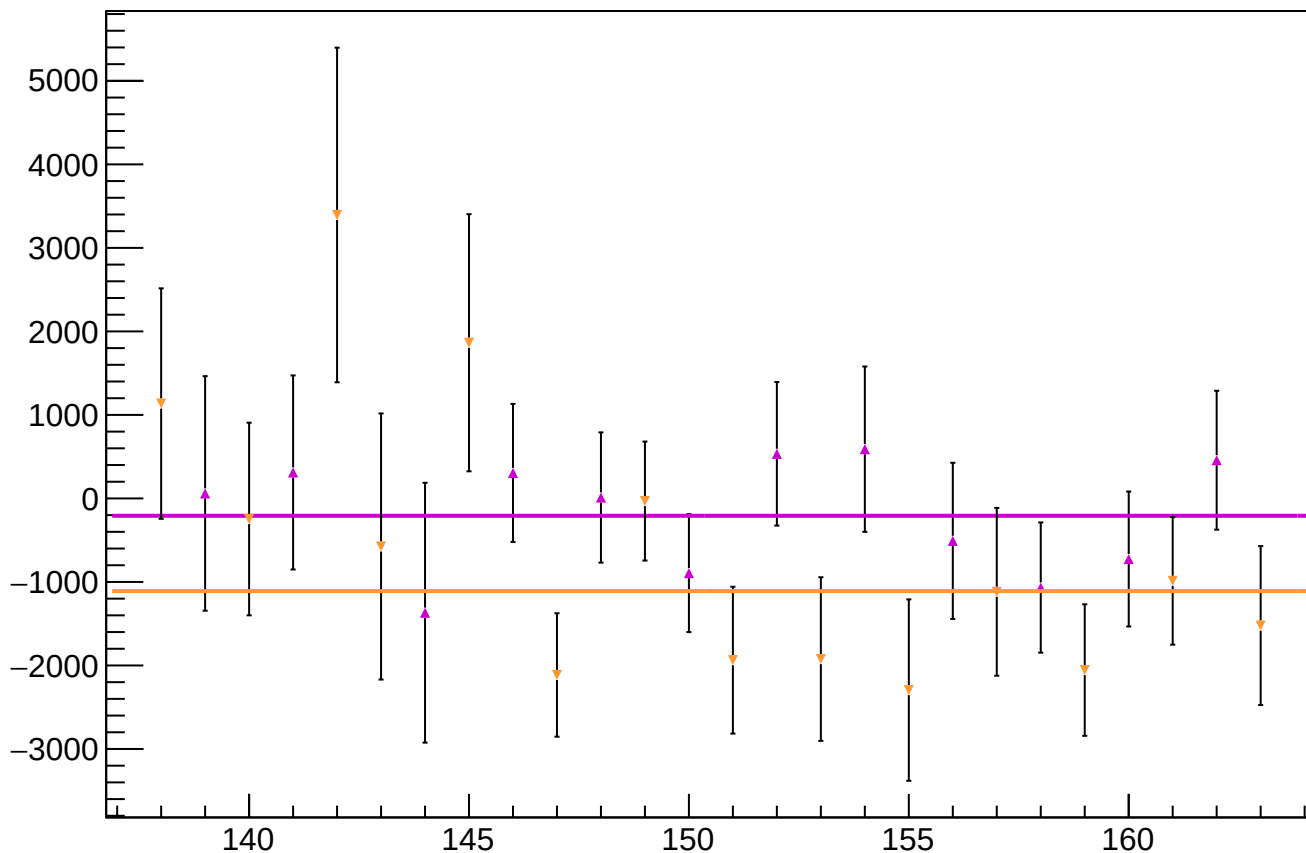
Left In: 2770.137+/-0.625  $\chi^2/\text{NDF}$ : 4646.6/11

+ sign 2806.454+/-0.482  $\chi^2/\text{NDF}$ : 684380.8/30

All: 2802.558+/-0.342  $\chi^2/\text{NDF}$ : 1006882.4/63

- sign 2798.612+/-0.485  $\chi^2/\text{NDF}$ : 322369.9/30

# asym\_atr1\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1109.548+/-260.410  $\chi^2/\text{NDF}$ :20.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

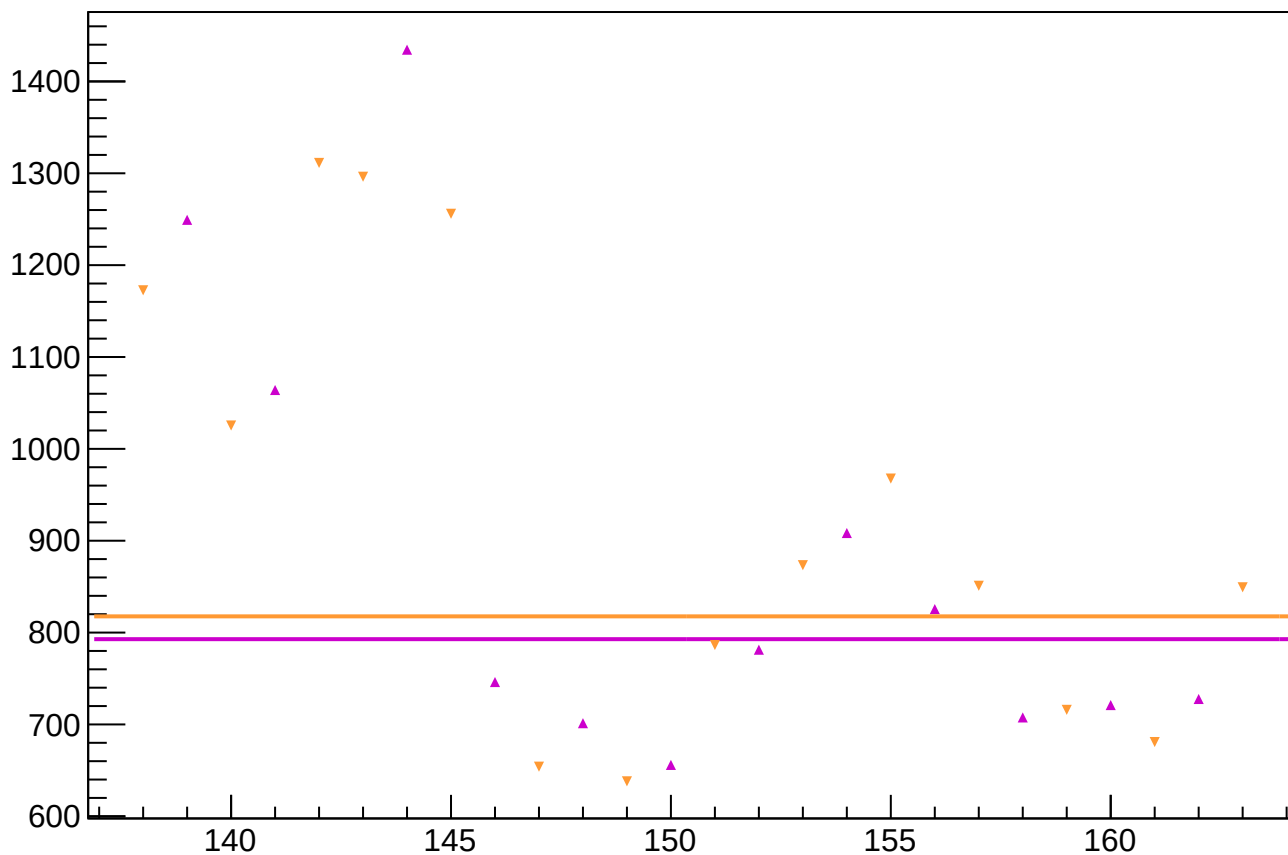
Left In: -207.559+/-258.914  $\chi^2/\text{NDF}$ :6.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -655.955+/-183.606  $\chi^2/\text{NDF}$ : 32.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr1\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 817.651+/-0.184  $\chi^2/\text{NDF}$ :1035438.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 792.829+/-0.183  $\chi^2/\text{NDF}$ :851808.3/11

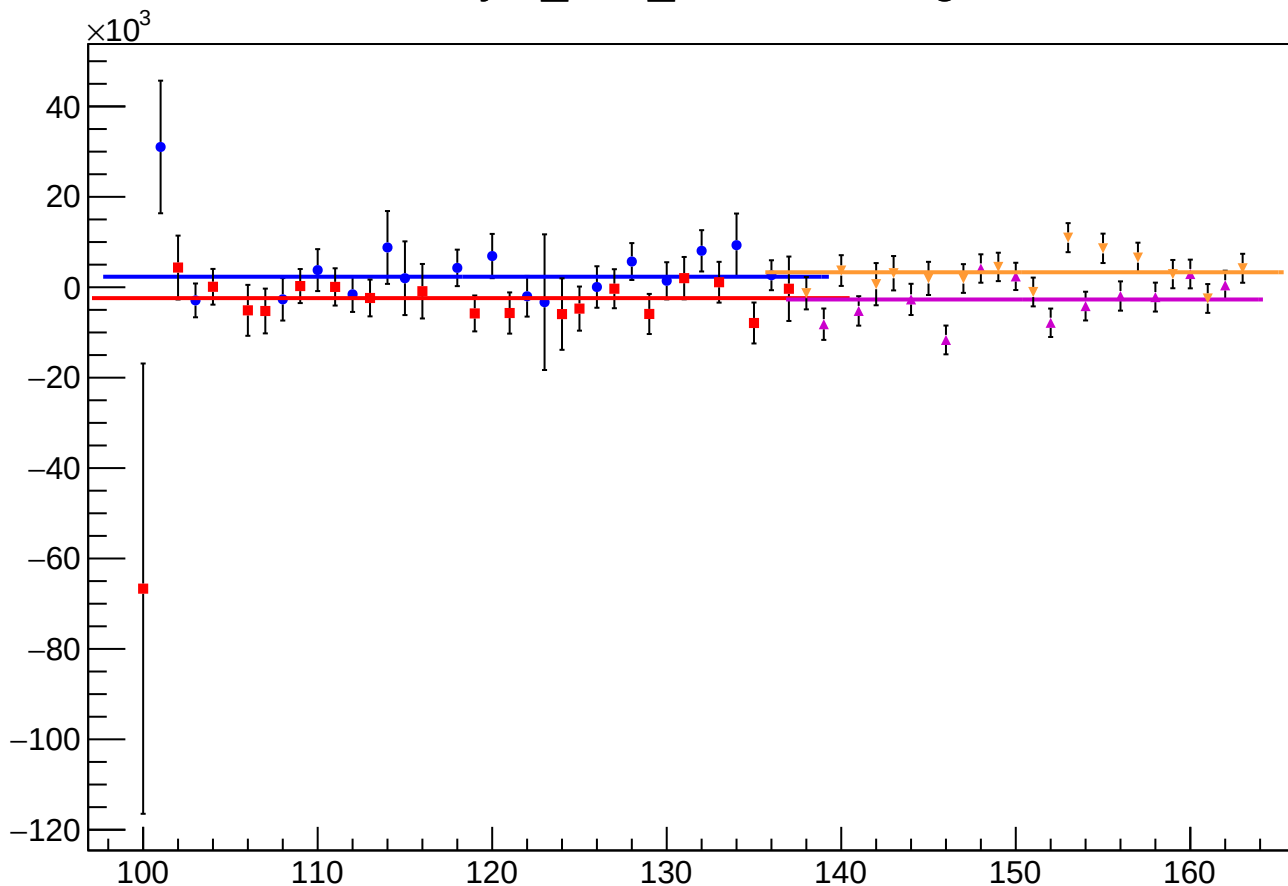
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 805.169+/-0.130  $\chi^2/\text{NDF}$ : 1896384.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_atr1\_mean vs Slug



Right In: 2330.134 $\pm$ 1156.555  $\chi^2$ /NDF: 14.4/16

Left Out: 3316.928 $\pm$ 899.931  $\chi^2$ /NDF:17.1/13

Right Out: -2403.750 $\pm$ 1110.093  $\chi^2$ /NDF: 10.1/18

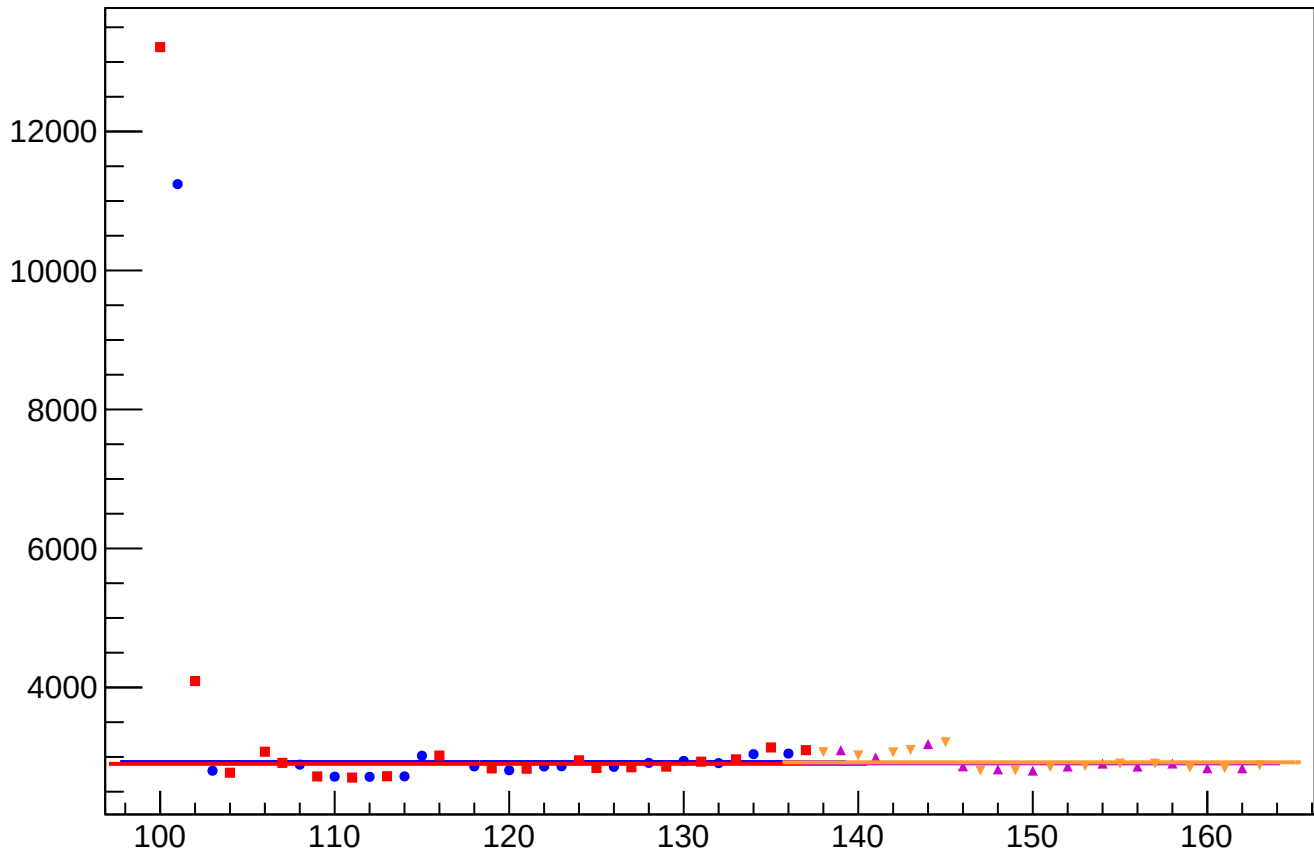
Left In: -2705.190 $\pm$ 928.824  $\chi^2$ /NDF:25.7/11

+ sign 2944.782 $\pm$ 710.247  $\chi^2$ /NDF: 31.9/30

All: 190.065 $\pm$ 502.965  $\chi^2$ /NDF: 97.9/61

- sign -2581.059 $\pm$ 712.359  $\chi^2$ /NDF: 35.8/30

# asym\_atr1\_rms vs Slug



Right In: 2926.610 $\pm$ 0.818  $\chi^2$ /NDF: 662794.4/16

Left Out: 2922.899 $\pm$ 0.636  $\chi^2$ /NDF: 33890.5/13

Right Out: 2900.827 $\pm$ 0.785  $\chi^2$ /NDF: 169866.6/18

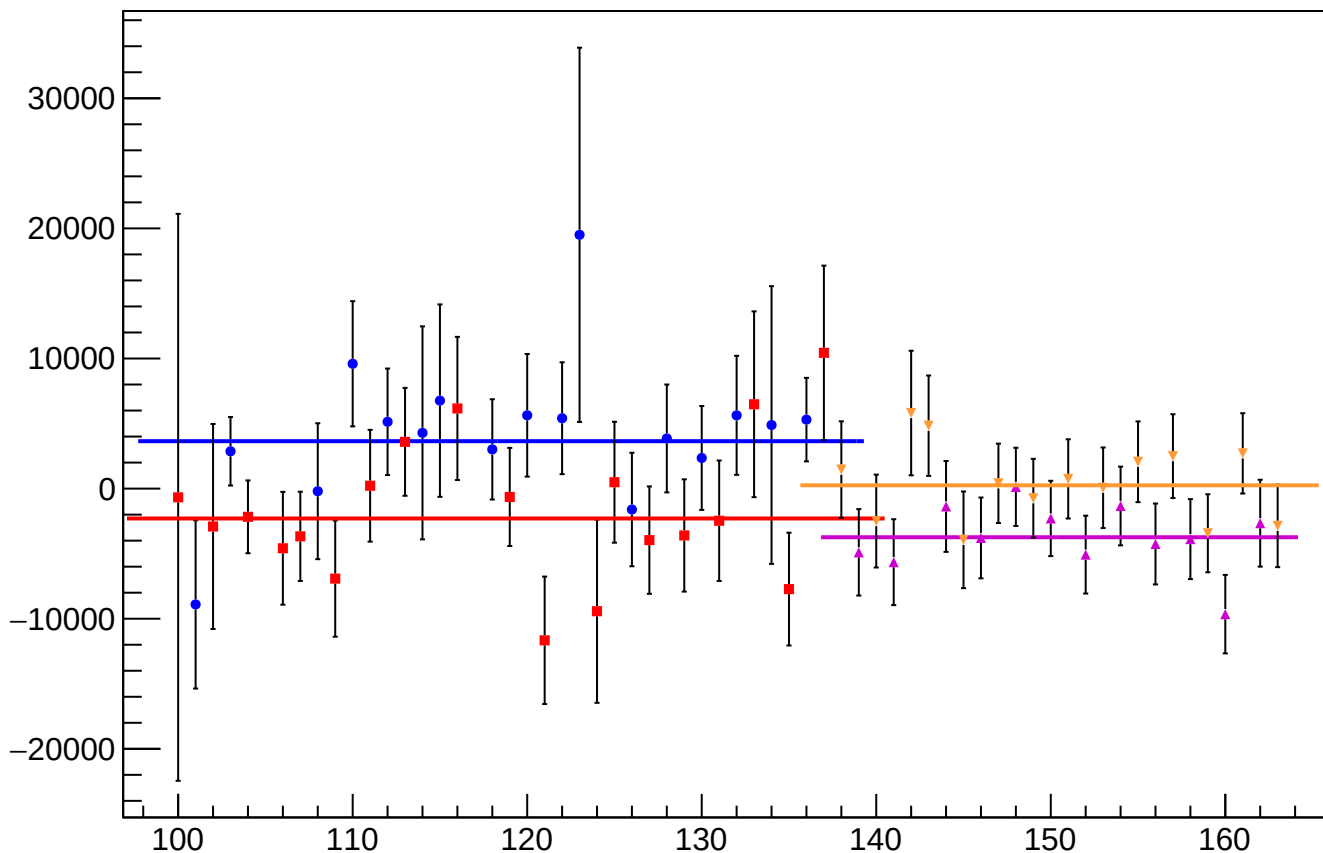
Left In: 2907.446 $\pm$ 0.657  $\chi^2$ /NDF: 27337.2/11

+ sign 2924.299 $\pm$ 0.502  $\chi^2$ /NDF: 696697.7/30

All: 2914.539 $\pm$ 0.356  $\chi^2$ /NDF: 894700.8/61

- sign 2904.721 $\pm$ 0.504  $\chi^2$ /NDF: 197245.6/30

# dit\_asym\_atr2\_mean vs Slug



Right In: 3645.268 $\pm$ 1091.486  $\chi^2$ /NDF: 9.9/16

Left Out: 255.609 $\pm$ 884.324  $\chi^2$ /NDF:8.8/13

Right Out: -2295.846 $\pm$ 1046.865  $\chi^2$ /NDF: 18.4/18

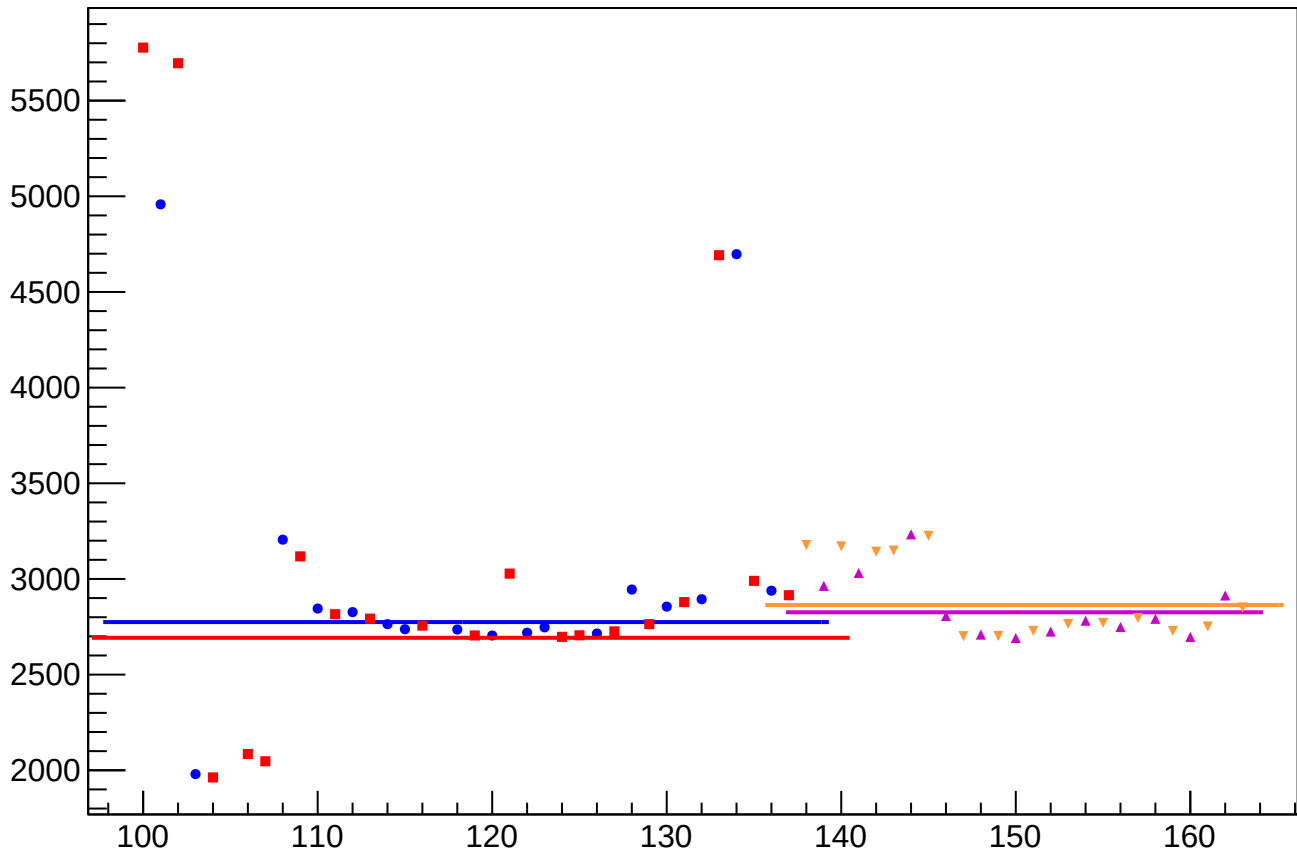
Left In: -3737.903 $\pm$ 902.517  $\chi^2$ /NDF:7.6/11

+ sign 1598.901 $\pm$ 687.109  $\chi^2$ /NDF: 24.5/30

All: -774.310 $\pm$ 484.600  $\chi^2$ /NDF: 75.3/61

- sign -3123.073 $\pm$ 683.560  $\chi^2$ /NDF: 27.1/30

# dit\_asym\_atr2\_rms vs Slug



Right In: 2774.617+/-0.772  $\chi^2/\text{NDF}$ : 501680.3/16

Left Out: 2863.597+/-0.625  $\chi^2/\text{NDF}$ : 92562.0/13

Right Out: 2692.509+/-0.740  $\chi^2/\text{NDF}$ : 780267.3/18

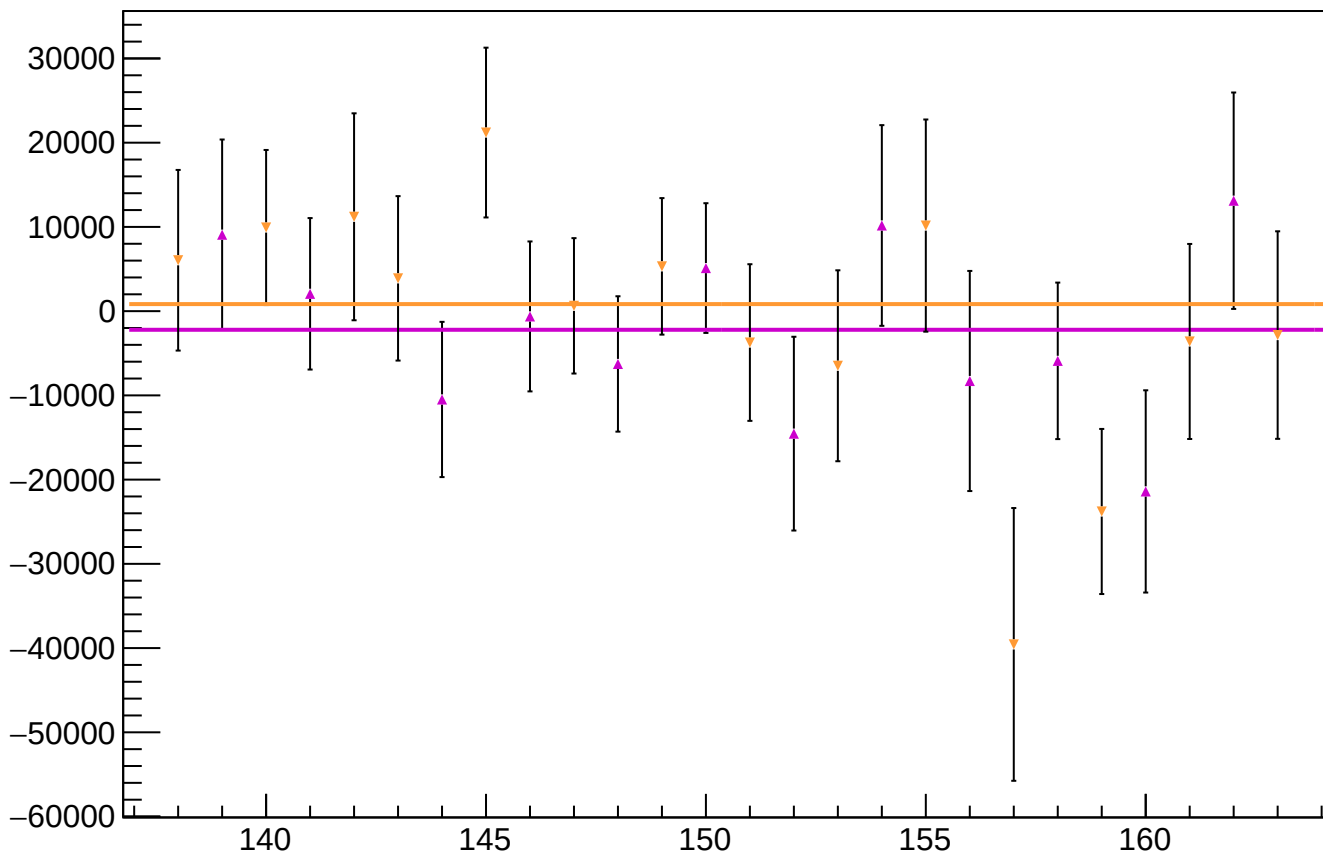
Left In: 2825.787+/-0.638  $\chi^2/\text{NDF}$ : 55010.7/11

+ sign 2828.335+/-0.486  $\chi^2/\text{NDF}$ : 602266.5/30

All: 2798.481+/-0.343  $\chi^2/\text{NDF}$ : 1463658.4/63

- sign 2768.942+/-0.483  $\chi^2/\text{NDF}$ : 853880.4/30

# asym\_atr2\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 837.556 $\pm$ 2751.309  $\chi^2$ /NDF:20.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

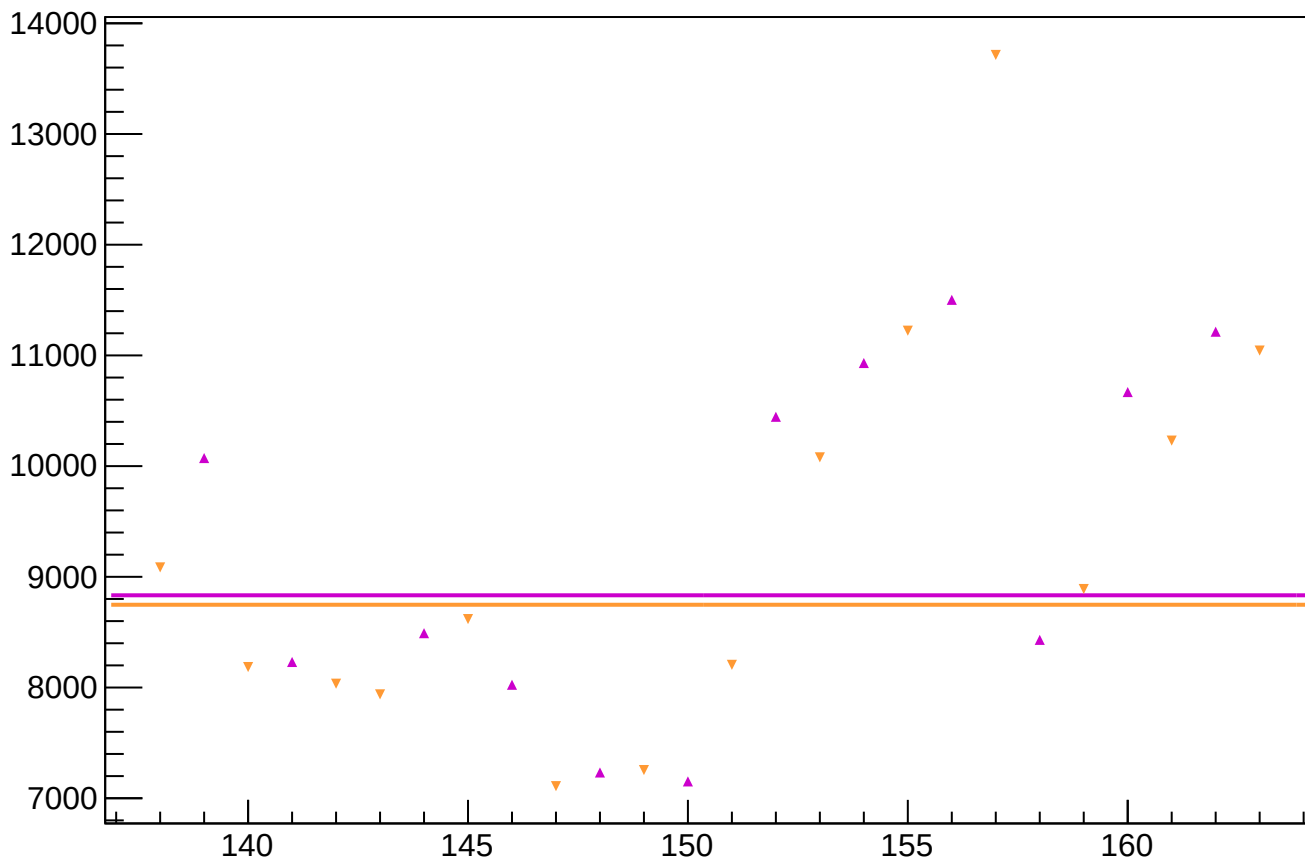
Left In: -2211.967 $\pm$ 2862.979  $\chi^2$ /NDF:9.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -626.573 $\pm$ 1983.773  $\chi^2$ /NDF: 30.8/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_atr2\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8747.735+/-1.945  $\chi^2/\text{NDF}$ :583870.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

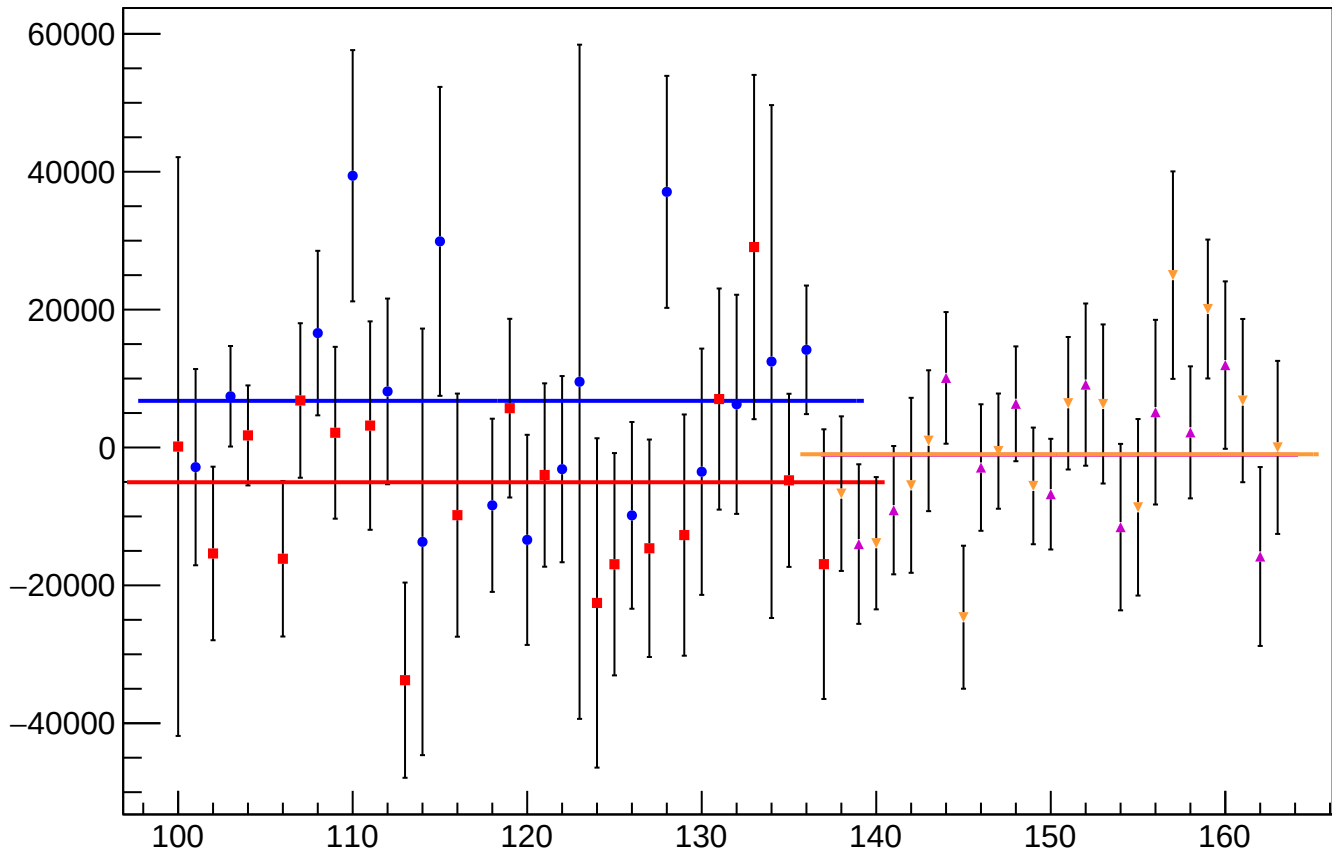
Left In: 8833.216+/-2.024  $\chi^2/\text{NDF}$ :531004.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 8788.776+/-1.403  $\chi^2/\text{NDF}$ : 1115801.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_atr2\_mean vs Slug



Right In: 6767.402 $\pm$ 3387.139  $\chi^2$ /NDF: 15.3/16

Left Out: -981.495 $\pm$ 2835.676  $\chi^2$ /NDF:16.9/13

Right Out: -5041.440 $\pm$ 3167.616  $\chi^2$ /NDF: 13.6/18

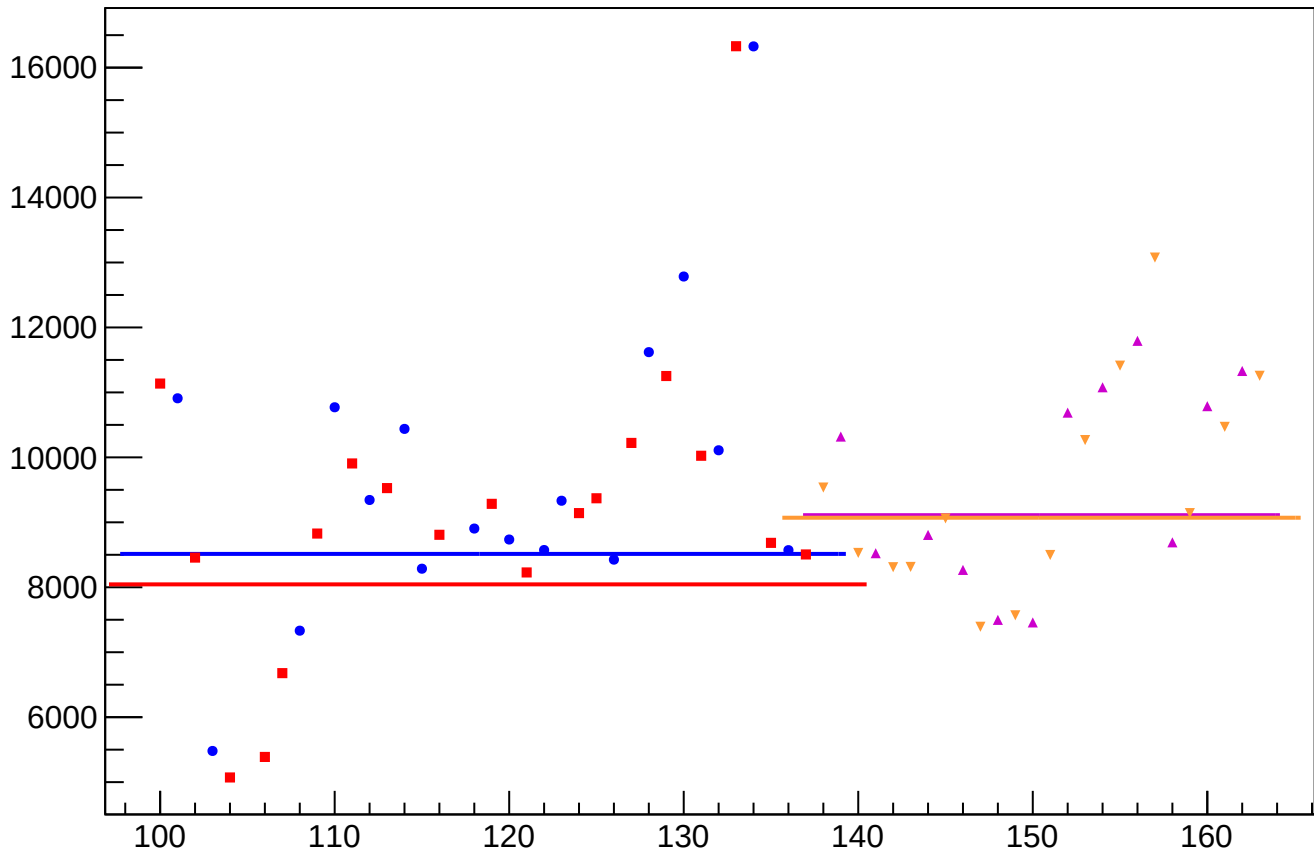
Left In: -1049.043 $\pm$ 2948.094  $\chi^2$ /NDF:9.0/11

+ sign 2211.600 $\pm$ 2174.298  $\chi^2$ /NDF: 35.3/30

All: -364.433 $\pm$ 1531.685  $\chi^2$ /NDF: 61.5/61

- sign -2902.119 $\pm$ 2158.054  $\chi^2$ /NDF: 23.4/30

# asym\_atr2\_rms vs Slug



Right In: 8513.665+/-2.395  $\chi^2/\text{NDF}$ : 762614.5/16

Left Out: 9070.595+/-2.005  $\chi^2/\text{NDF}$ : 497509.2/13

Right Out: 8044.739+/-2.240  $\chi^2/\text{NDF}$ : 952310.5/18

Left In: 9109.808+/-2.085  $\chi^2/\text{NDF}$ : 478206.8/11

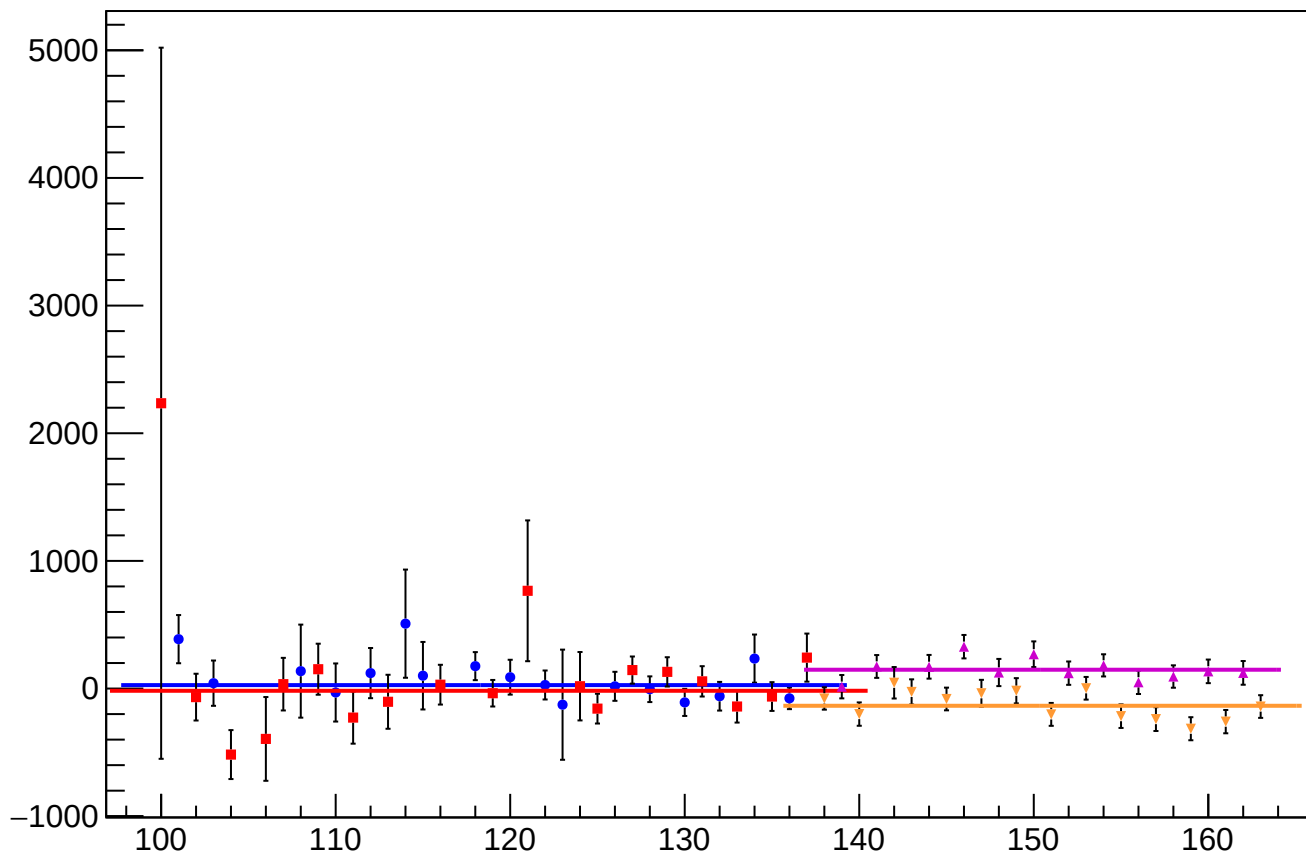
+ sign 8841.100+/-1.537  $\chi^2/\text{NDF}$ : 1291913.5/30

All: 8727.420+/-1.083  $\chi^2/\text{NDF}$ : 2854449.2/63

- sign 8615.436+/-1.526  $\chi^2/\text{NDF}$ : 1551682.9/30



# dit\_asym\_sam1\_mean vs Slug



Right In:  $26.932 \pm 34.029$   $\chi^2/\text{NDF}$ : 12.6/16

Left Out:  $-134.886 \pm 25.071$   $\chi^2/\text{NDF}$ : 17.7/13

Right Out:  $-17.368 \pm 35.548$   $\chi^2/\text{NDF}$ : 21.9/18

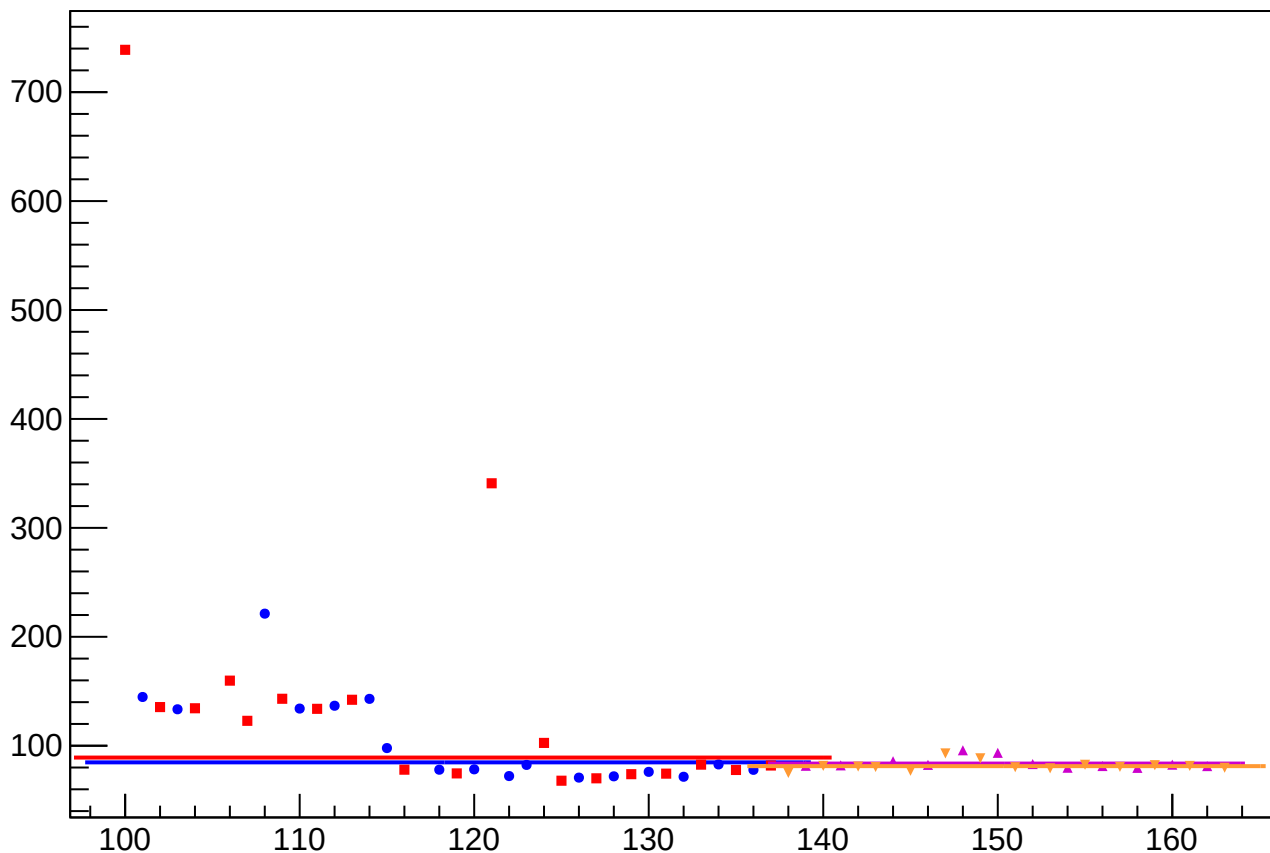
Left In:  $147.482 \pm 26.733$   $\chi^2/\text{NDF}$ : 9.5/11

+ sign  $-77.953 \pm 20.184$   $\chi^2/\text{NDF}$ : 45.0/30

All:  $0.275 \pm 14.672$   $\chi^2/\text{NDF}$ : 121.9/61

- sign  $87.929 \pm 21.366$   $\chi^2/\text{NDF}$ : 45.1/30

# dit\_asym\_sam1\_rms vs Slug



Right In: 84.737 $\pm$ 0.024  $\chi^2$ /NDF: 1064420.0/16

Left Out: 81.266 $\pm$ 0.018  $\chi^2$ /NDF: 52662.5/13

Right Out: 89.143 $\pm$ 0.025  $\chi^2$ /NDF: 1559269.8/18

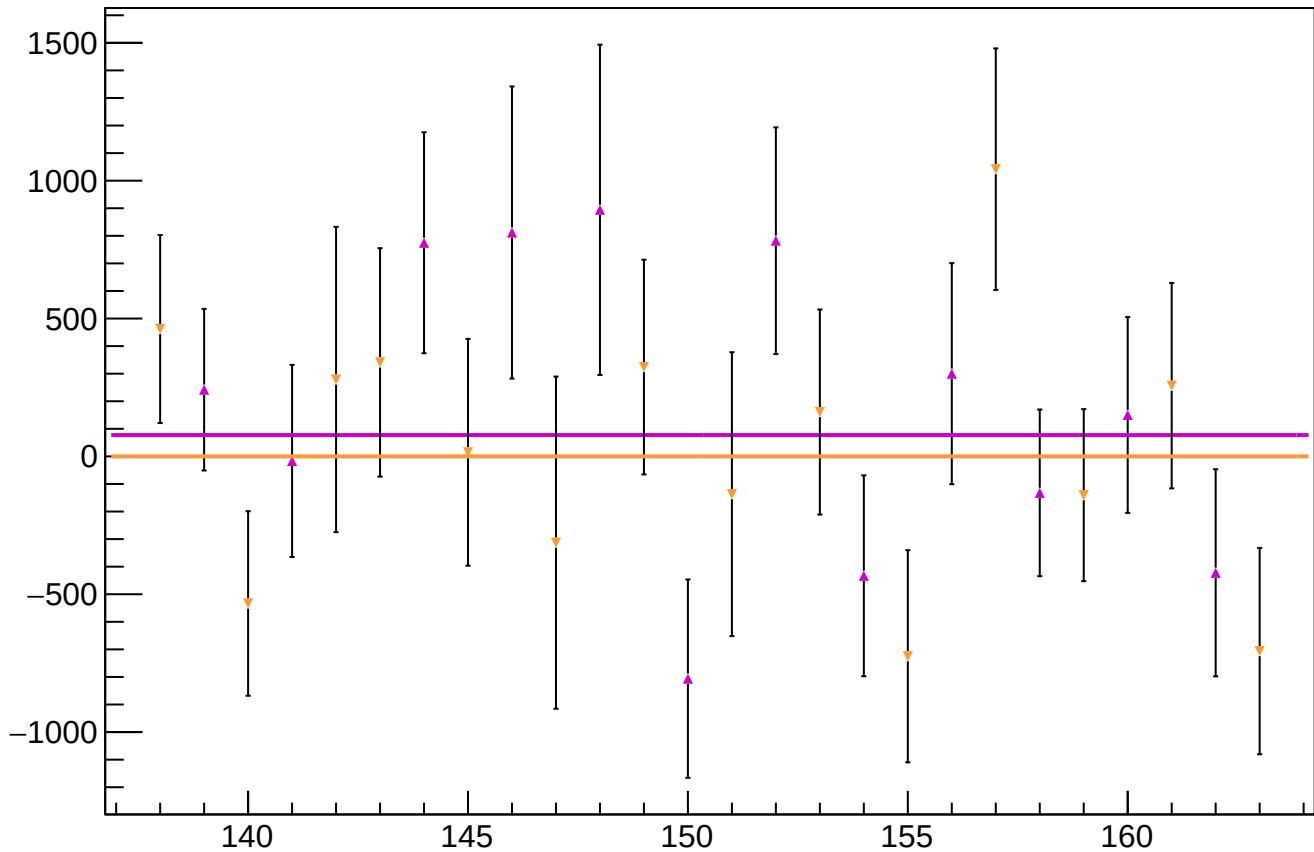
Left In: 83.627 $\pm$ 0.019  $\chi^2$ /NDF: 59204.9/11

+ sign 82.487 $\pm$ 0.014  $\chi^2$ /NDF: 1130569.2/30

All: 83.964 $\pm$ 0.010  $\chi^2$ /NDF: 2802519.9/61

- sign 85.619 $\pm$ 0.015  $\chi^2$ /NDF: 1649238.8/30

# asym\_sam1\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.093+/-105.735  $\chi^2/\text{NDF}$ :20.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

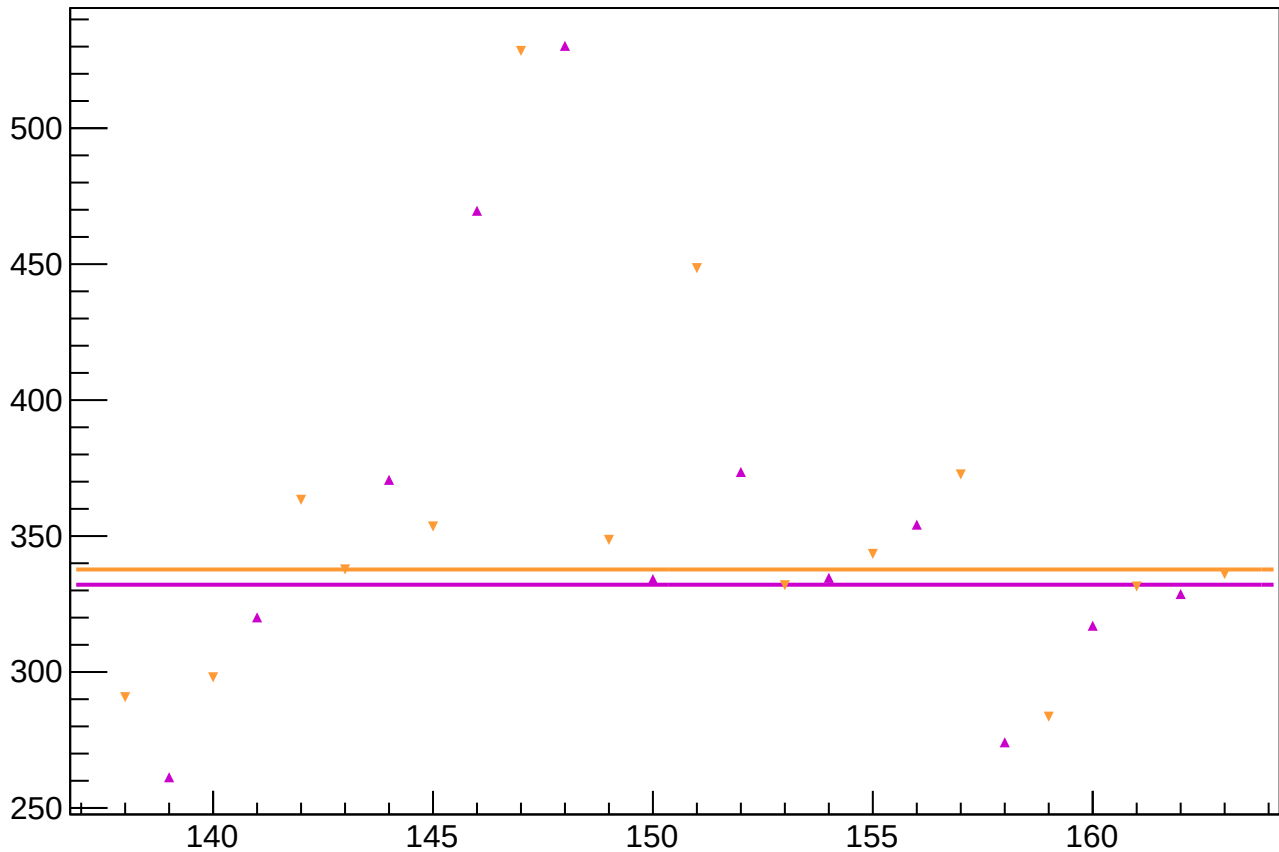
Left In: 77.382+/-107.949  $\chi^2/\text{NDF}$ :20.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 37.936+/-75.537  $\chi^2/\text{NDF}$ : 41.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 337.710+/-0.075  $\chi^2/\text{NDF}$ : 442343.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

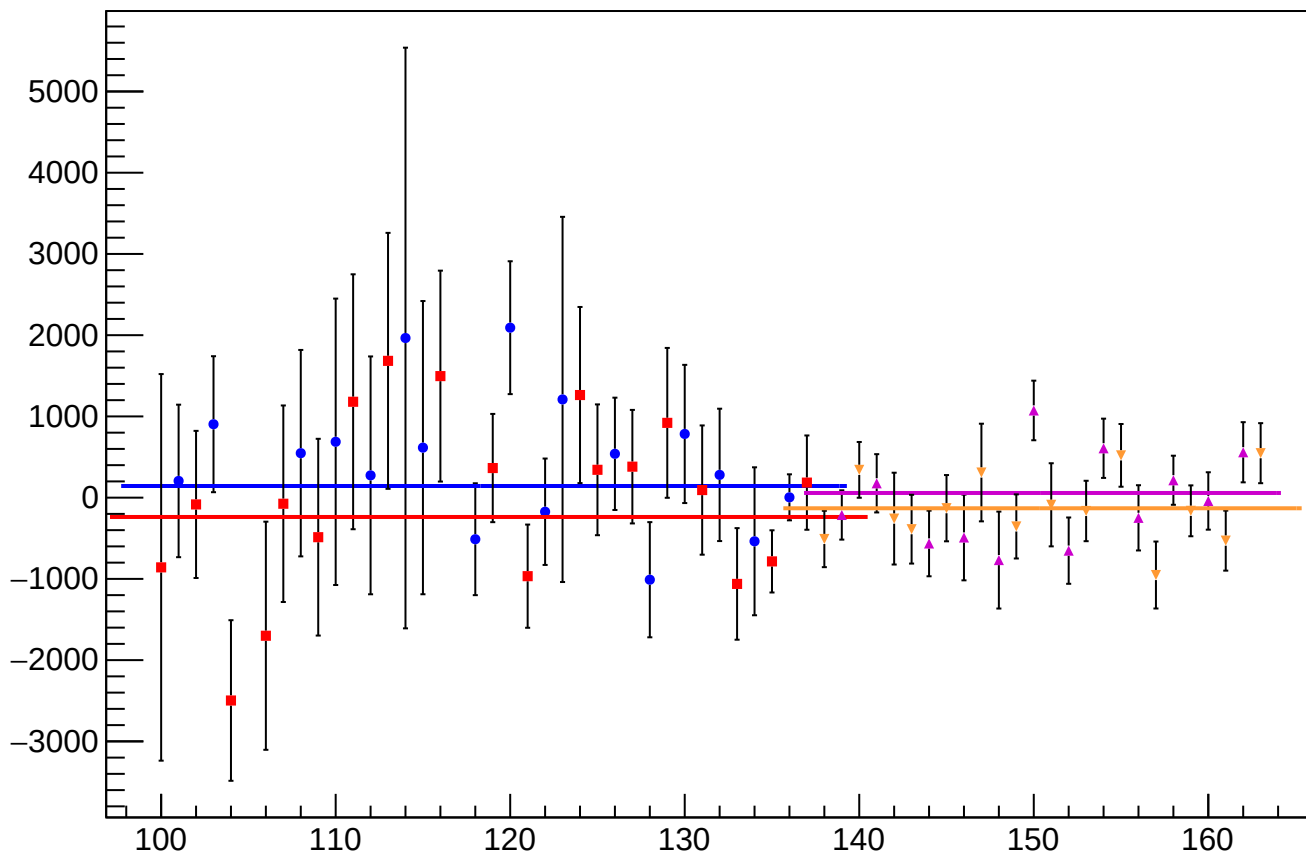
Left In: 332.103+/-0.076  $\chi^2/\text{NDF}$ : 595228.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 334.964+/-0.053  $\chi^2/\text{NDF}$ : 1040325.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam1\_mean vs Slug



Right In:  $143.486 \pm 179.237$   $\chi^2/\text{NDF}$ : 12.8/16

Left Out:  $-130.717 \pm 105.869$   $\chi^2/\text{NDF}$ : 15.7/13

Right Out:  $-237.821 \pm 183.995$   $\chi^2/\text{NDF}$ : 21.7/18

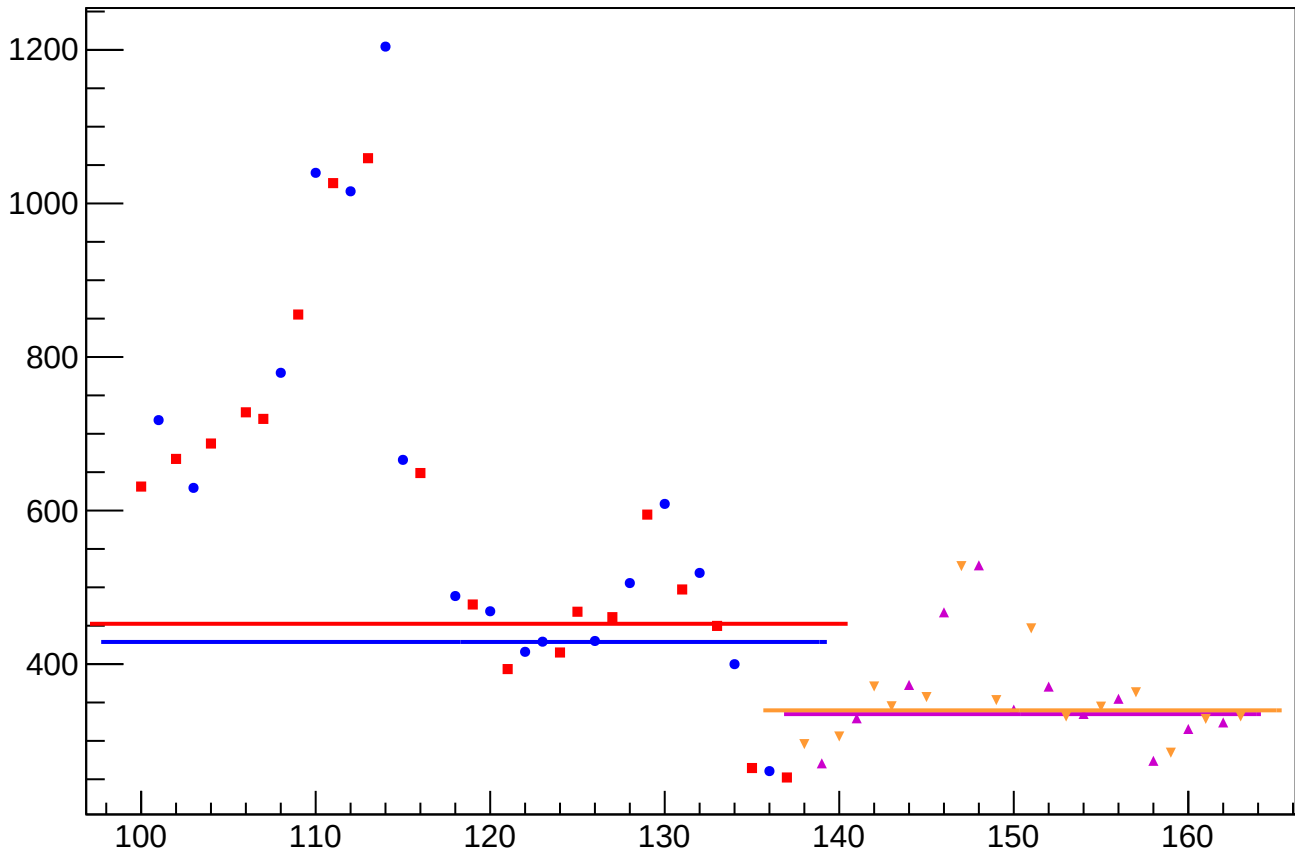
Left In:  $57.561 \pm 108.740$   $\chi^2/\text{NDF}$ : 22.0/11

+ sign  $-59.795 \pm 91.155$   $\chi^2/\text{NDF}$ : 30.3/30

All:  $-39.893 \pm 65.308$   $\chi^2/\text{NDF}$ : 75.9/61

- sign  $-18.902 \pm 93.614$   $\chi^2/\text{NDF}$ : 45.6/30

# asym\_sam1\_rms vs Slug



Right In: 428.856 $\pm$ 0.127  $\chi^2$ /NDF: 2012329.6/16

Left Out: 339.770 $\pm$ 0.075  $\chi^2$ /NDF: 419092.9/13

Right Out: 452.517 $\pm$ 0.130  $\chi^2$ /NDF: 2039238.5/18

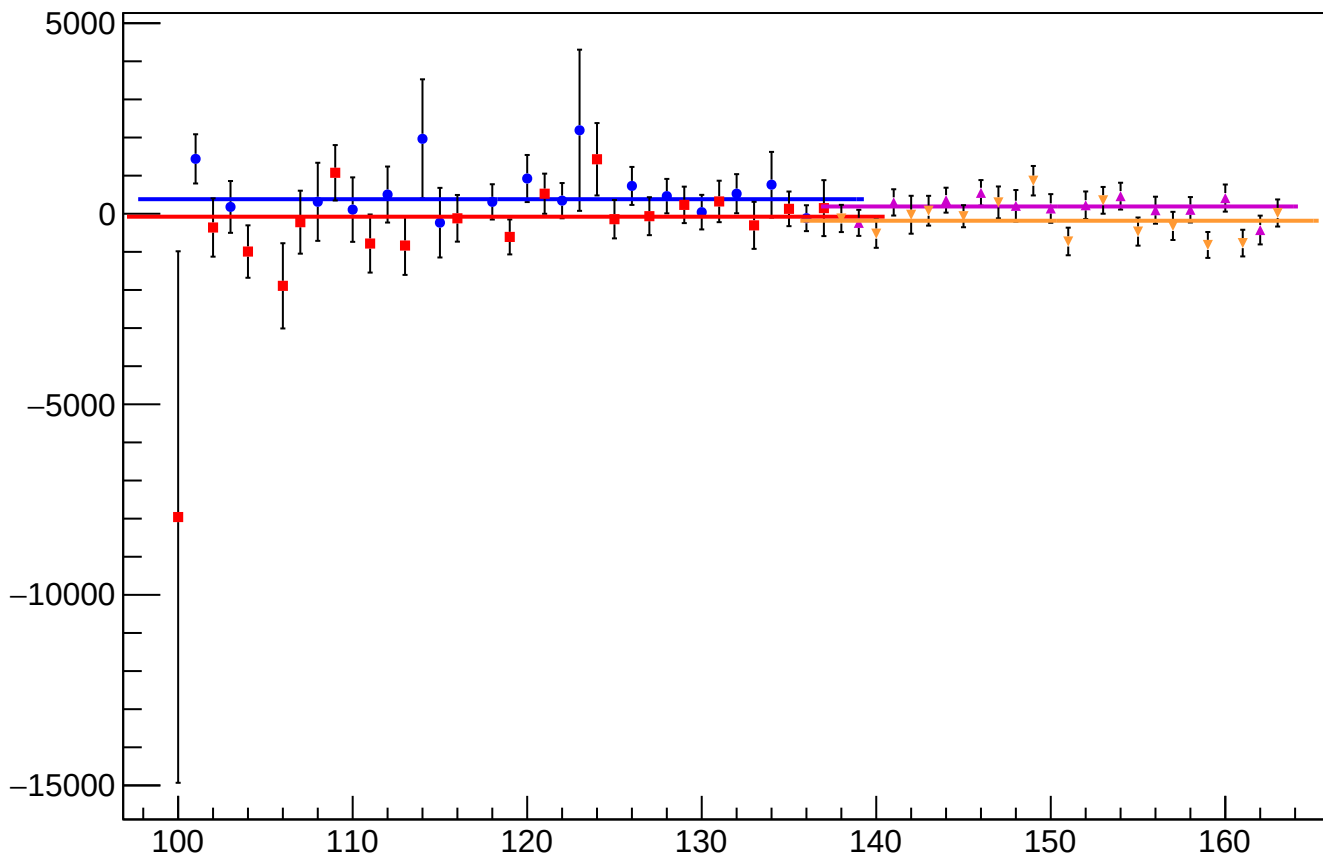
Left In: 334.871 $\pm$ 0.077  $\chi^2$ /NDF: 554288.3/11

+ sign 362.812 $\pm$ 0.064  $\chi^2$ /NDF: 2797703.1/30

All: 364.035 $\pm$ 0.046  $\chi^2$ /NDF: 5997973.2/61

- sign 365.325 $\pm$ 0.066  $\chi^2$ /NDF: 3199530.2/30

# dit\_asym\_sam2\_mean vs Slug



Right In:  $381.893 \pm 141.192$   $\chi^2/\text{NDF}$ : 9.4/16

Left Out:  $-183.494 \pm 97.527$   $\chi^2/\text{NDF}$ : 22.2/13

Right Out:  $-77.490 \pm 143.469$   $\chi^2/\text{NDF}$ : 16.8/18

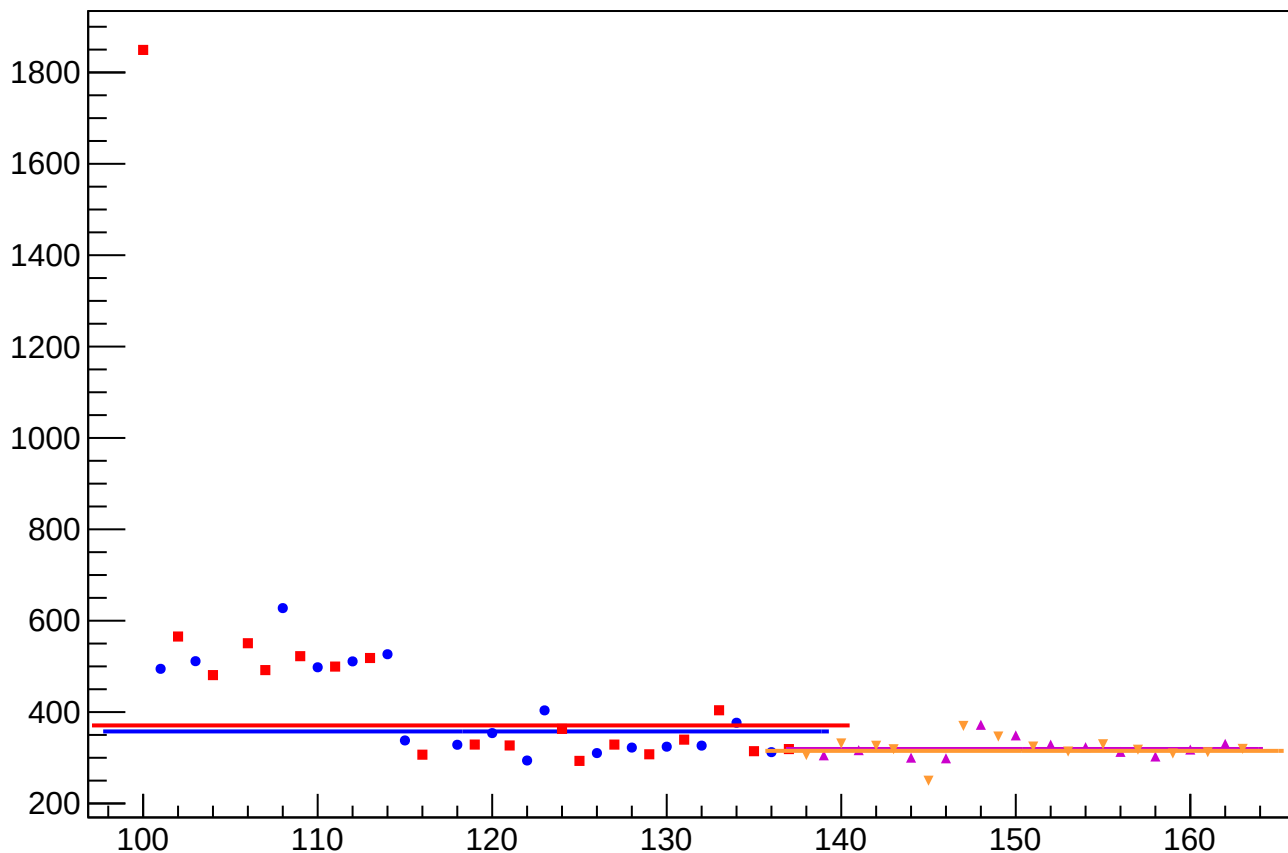
Left In:  $190.933 \pm 102.185$   $\chi^2/\text{NDF}$ : 6.9/11

+ sign  $-0.871 \pm 80.245$   $\chi^2/\text{NDF}$ : 42.5/30

All:  $48.008 \pm 57.769$   $\chi^2/\text{NDF}$ : 69.3/61

- sign  $100.593 \pm 83.231$   $\chi^2/\text{NDF}$ : 26.0/30

# dit\_asym\_sam2\_rms vs Slug



Right In: 357.664+/-0.100  $\chi^2/\text{NDF}$ : 629671.7/16

Left Out: 315.128+/-0.069  $\chi^2/\text{NDF}$ : 160934.8/13

Right Out: 370.794+/-0.101  $\chi^2/\text{NDF}$ : 784786.3/18

Left In: 319.250+/-0.072  $\chi^2/\text{NDF}$ : 71775.4/11

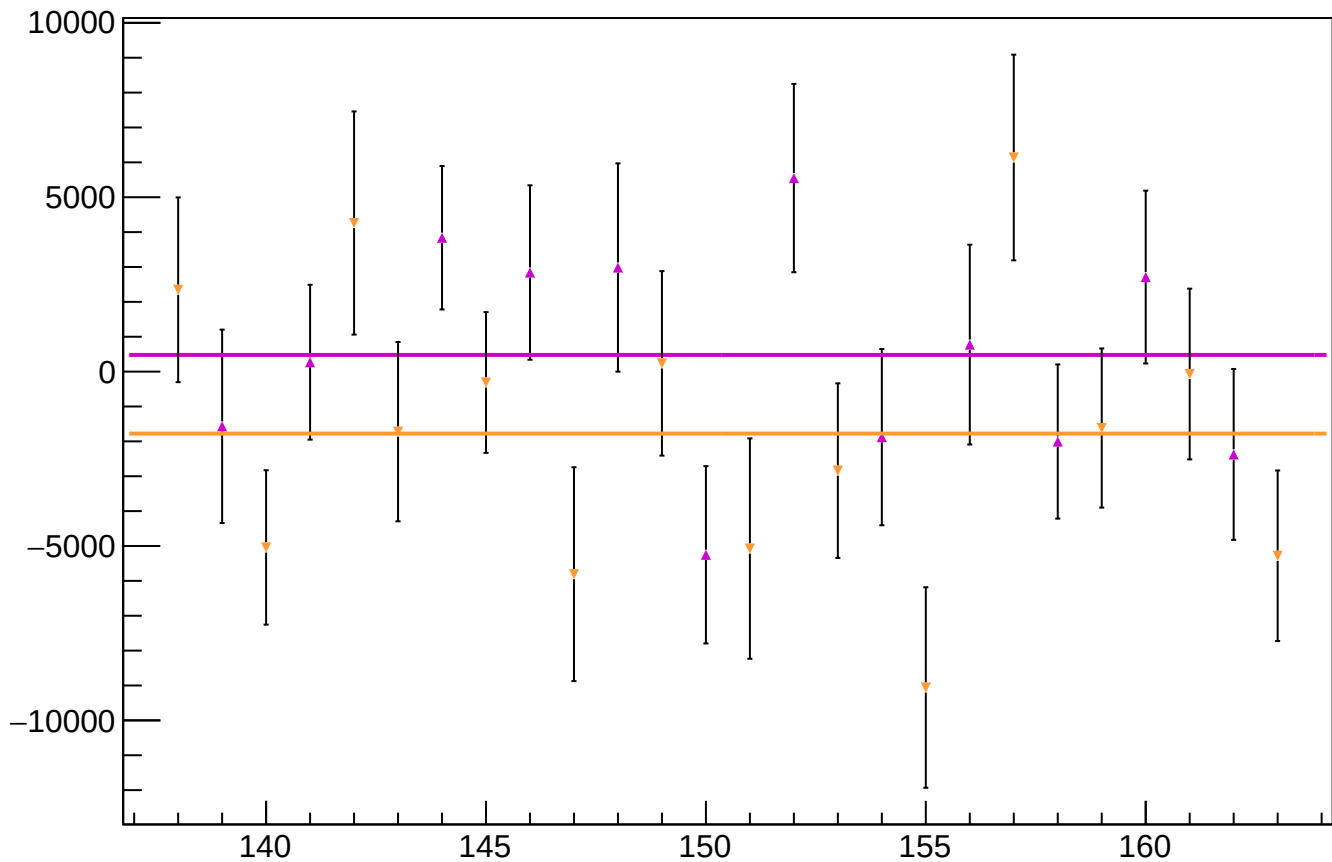
+ sign 328.867+/-0.057  $\chi^2/\text{NDF}$ : 913497.0/30

All: 332.591+/-0.041  $\chi^2/\text{NDF}$ : 1950265.6/61

- sign 336.598+/-0.059  $\chi^2/\text{NDF}$ : 1027827.1/30



# asym\_sam2\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1777.661+/-688.058  $\chi^2/\text{NDF}$ : 28.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

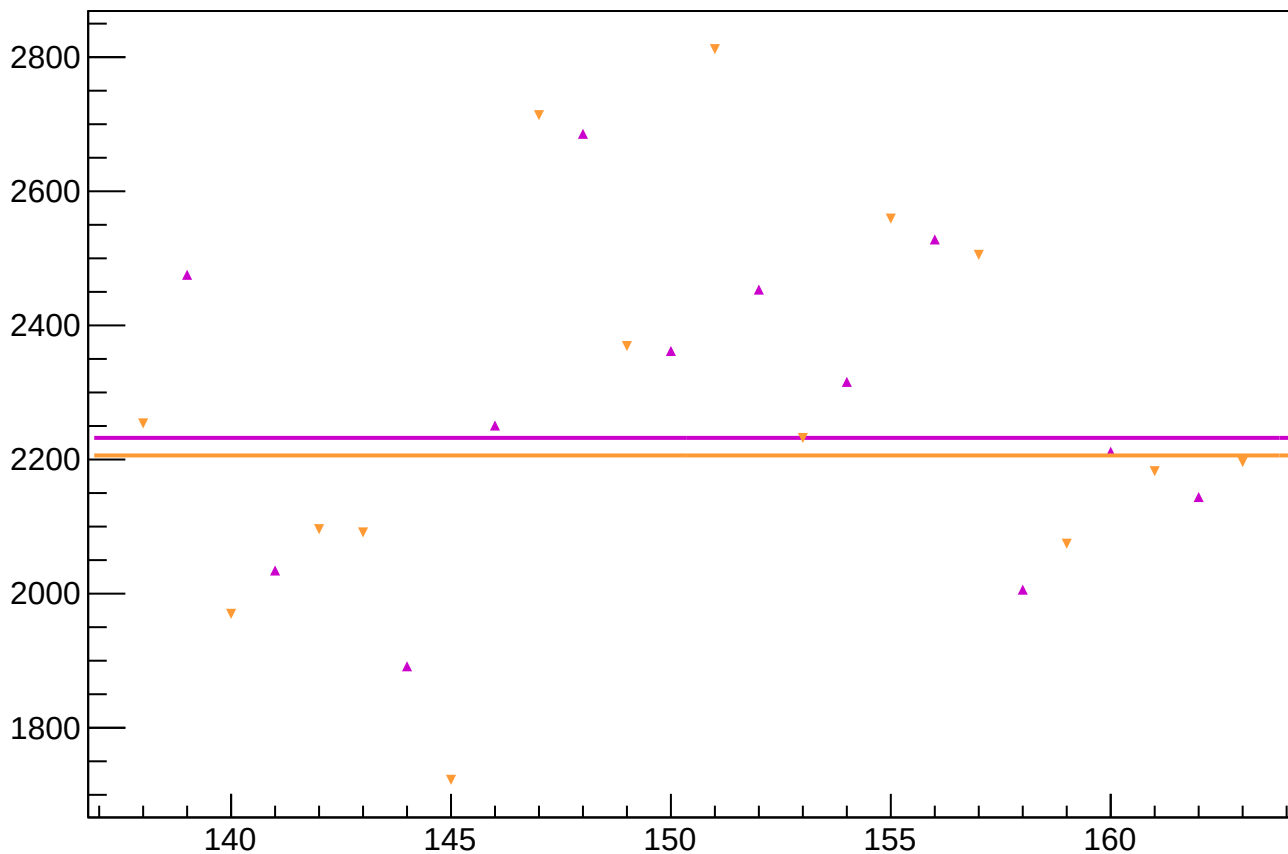
Left In: 478.421+/-716.836  $\chi^2/\text{NDF}$ : 17.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -695.815+/-496.392  $\chi^2/\text{NDF}$ : 51.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2206.105+/-0.487  $\chi^2/\text{NDF}$ :338443.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

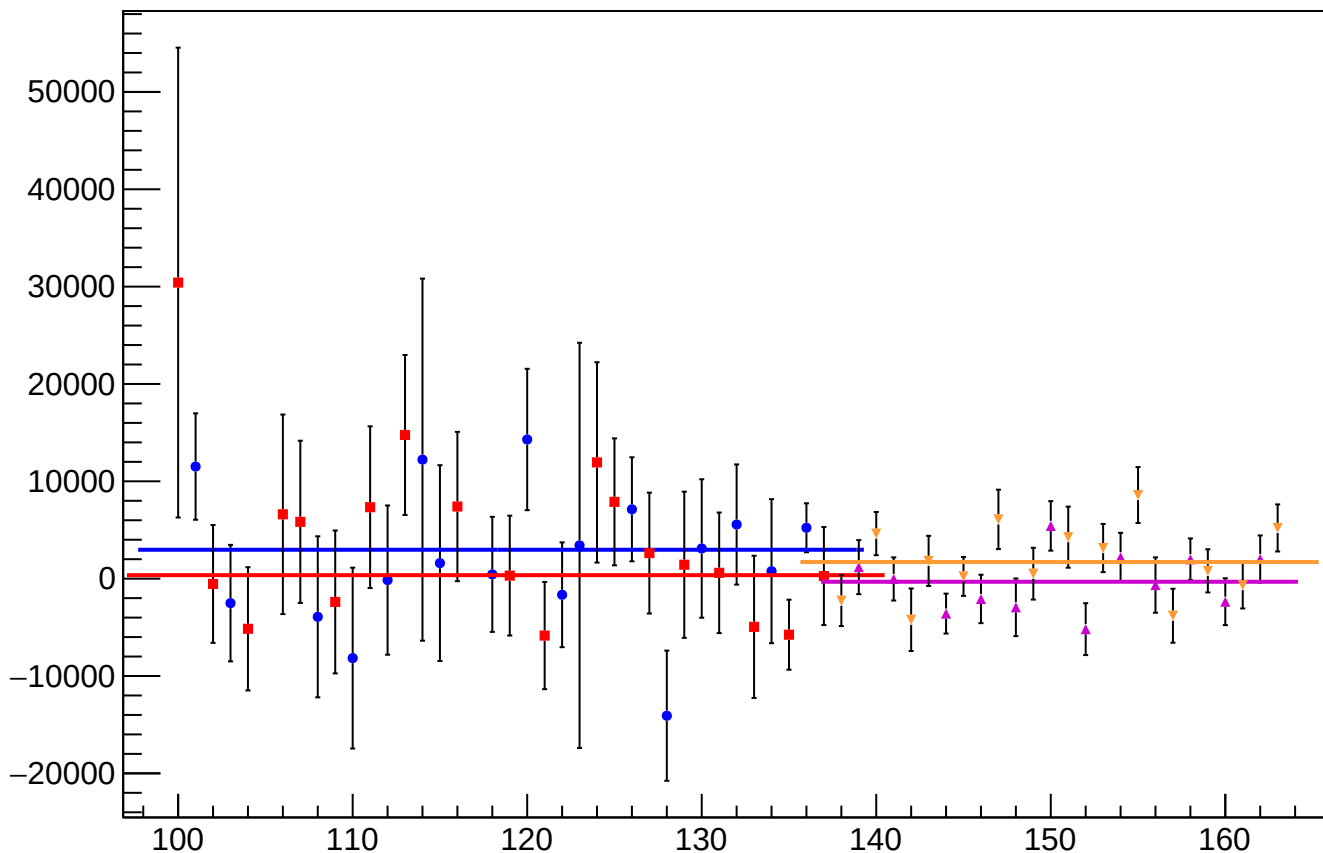
Left In: 2232.289+/-0.507  $\chi^2/\text{NDF}$ :198123.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2218.661+/-0.351  $\chi^2/\text{NDF}$ : 537956.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam2\_mean vs Slug



Right In: 2969.125 $\pm$ 1440.489  $\chi^2$ /NDF: 17.4/16

Left Out: 1707.381 $\pm$ 680.182  $\chi^2$ /NDF:24.2/13

Right Out: 358.685 $\pm$ 1507.064  $\chi^2$ /NDF: 15.3/18

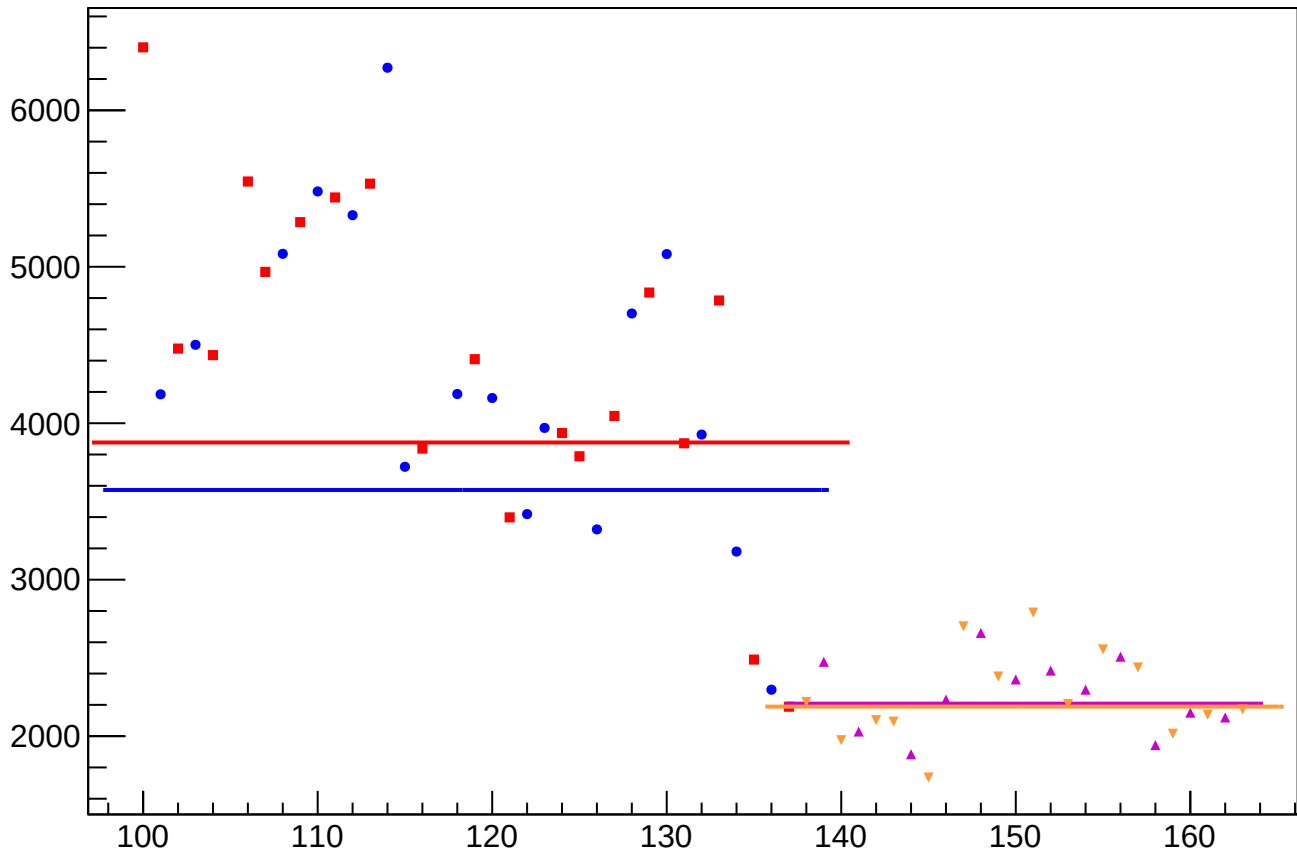
Left In: -317.772 $\pm$ 709.412  $\chi^2$ /NDF:16.4/11

+ sign 1937.413 $\pm$ 615.062  $\chi^2$ /NDF: 42.2/30

All: 916.609 $\pm$ 444.084  $\chi^2$ /NDF: 79.9/61

- sign -195.070 $\pm$ 641.855  $\chi^2$ /NDF: 31.9/30

# asym\_sam2\_rms vs Slug



Right In: 3573.470+/-1.019  $\chi^2/\text{NDF}$ : 1088731.5/16

Left Out: 2188.761+/-0.481  $\chi^2/\text{NDF}$ : 328586.8/13

Right Out: 3876.914+/-1.066  $\chi^2/\text{NDF}$ : 988409.8/18

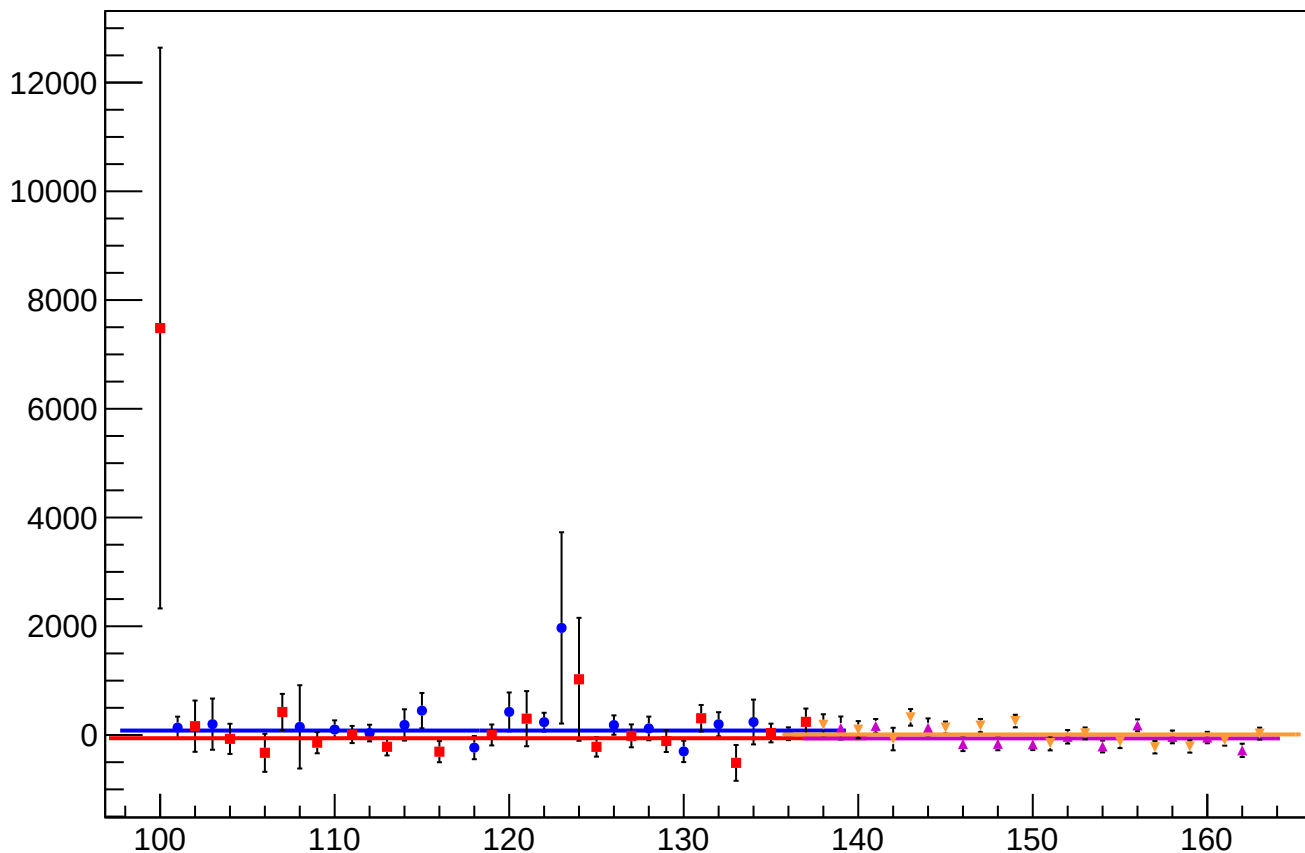
Left In: 2207.639+/-0.502  $\chi^2/\text{NDF}$ : 207349.8/11

+ sign 2441.212+/-0.435  $\chi^2/\text{NDF}$ : 2928490.1/30

All: 2474.344+/-0.314  $\chi^2/\text{NDF}$ : 6145003.7/63

- sign 2510.427+/-0.454  $\chi^2/\text{NDF}$ : 3204389.5/30

# dit\_asym\_sam3\_mean vs Slug



Right In: 81.851+/-51.907     $\chi^2/\text{NDF}$ : 11.5/16

Left Out: 10.484+/-33.525     $\chi^2/\text{NDF}$ : 24.6/13

Right Out: -59.008+/-53.165     $\chi^2/\text{NDF}$ : 16.4/18

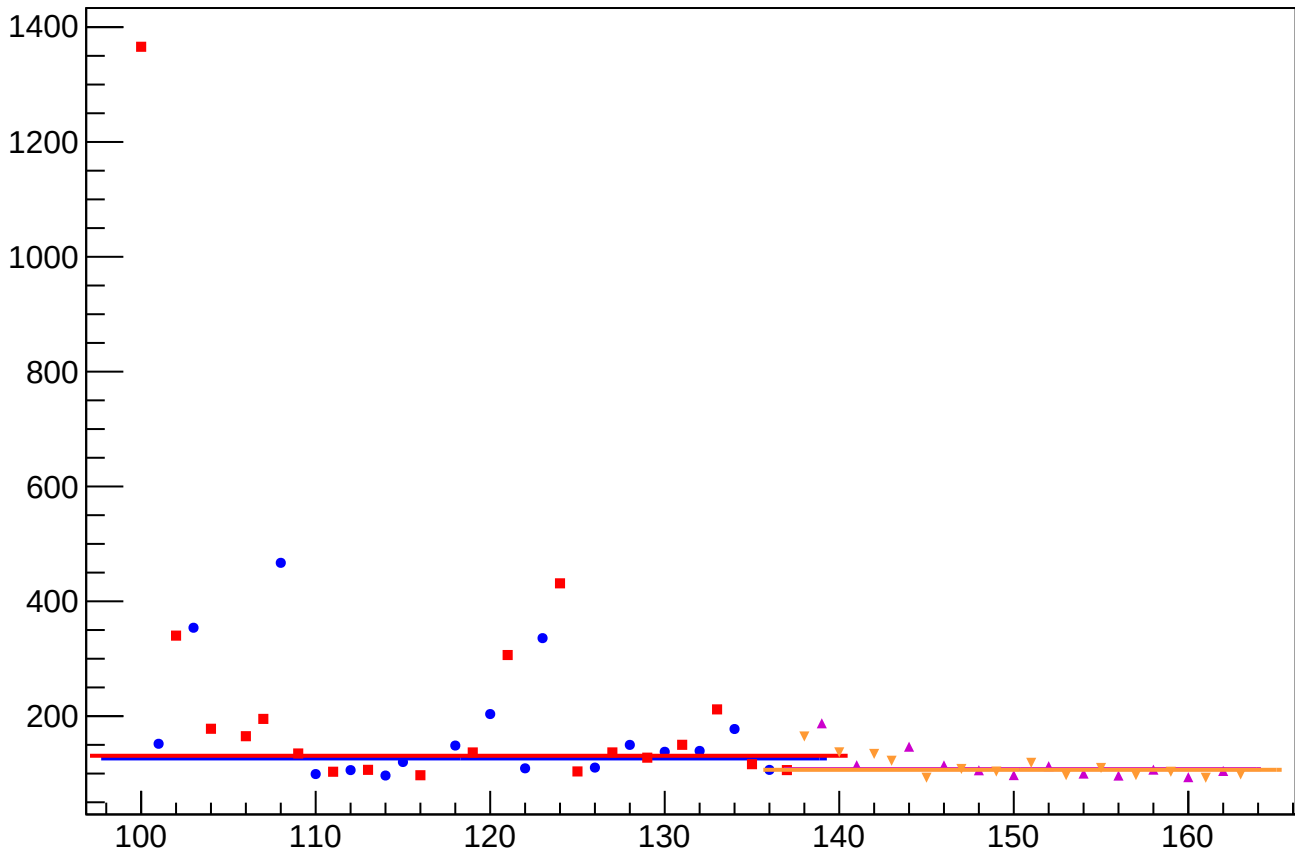
Left In: -62.374+/-35.392     $\chi^2/\text{NDF}$ : 17.7/11

+ sign 31.491+/-28.162     $\chi^2/\text{NDF}$ : 37.5/30

All: -12.833+/-20.357     $\chi^2/\text{NDF}$ : 76.8/61

- sign -61.340+/-29.461     $\chi^2/\text{NDF}$ : 34.2/30

# dit\_asym\_sam3\_rms vs Slug



Right In:  $126.339 \pm 0.037$   $\chi^2/\text{NDF}$ : 1310585.0/16

Left Out:  $106.548 \pm 0.024$   $\chi^2/\text{NDF}$ : 436740.7/13

+ sign  $112.373 \pm 0.020$   $\chi^2/\text{NDF}$ : 1952499.4/30

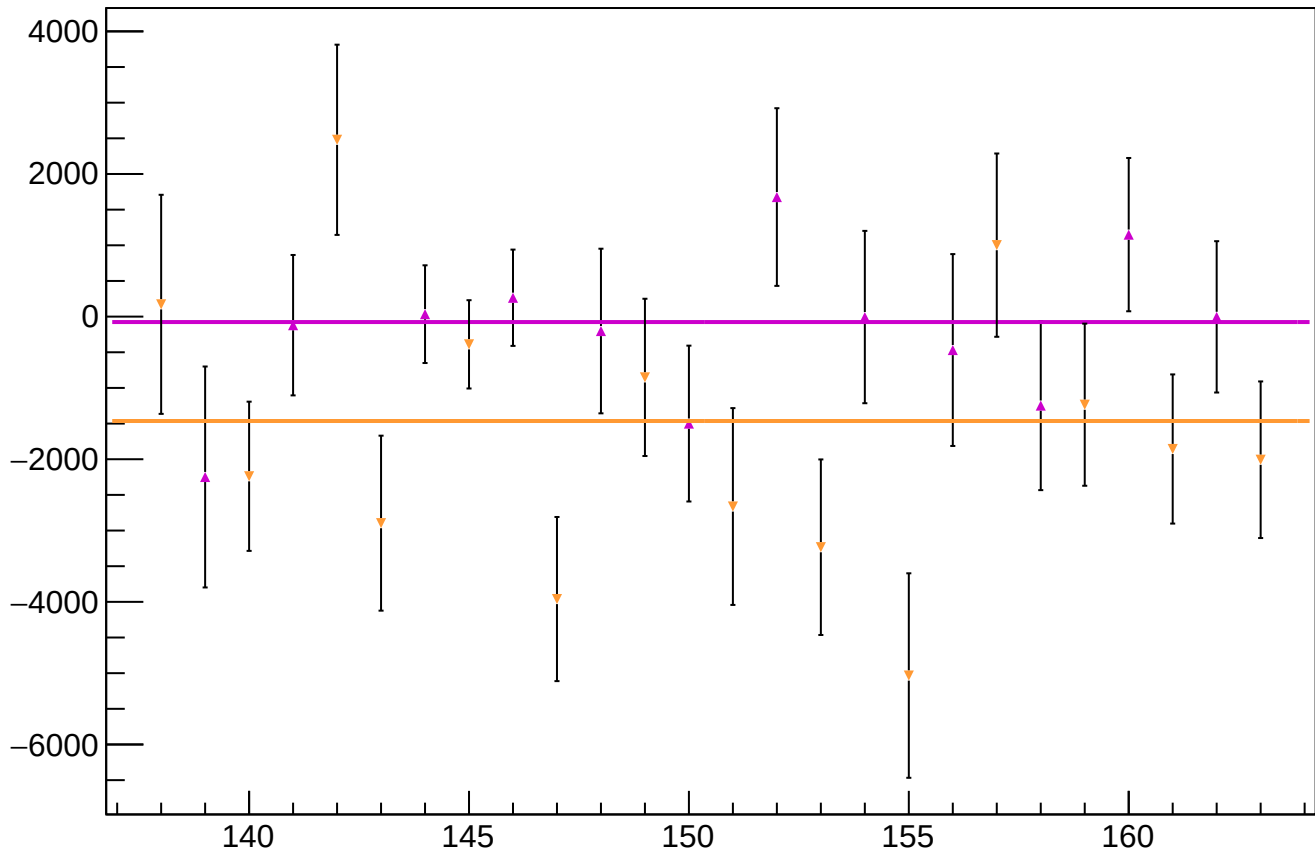
Right Out:  $131.007 \pm 0.038$   $\chi^2/\text{NDF}$ : 1429260.8/18

All:  $113.577 \pm 0.014$   $\chi^2/\text{NDF}$ : 4143382.1/61

- sign  $114.894 \pm 0.021$   $\chi^2/\text{NDF}$ : 2183230.4/30

Left In:  $107.754 \pm 0.025$   $\chi^2/\text{NDF}$ : 488864.1/11

# asym\_sam3\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1463.929+/-294.309  $\chi^2/\text{NDF}$ :32.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

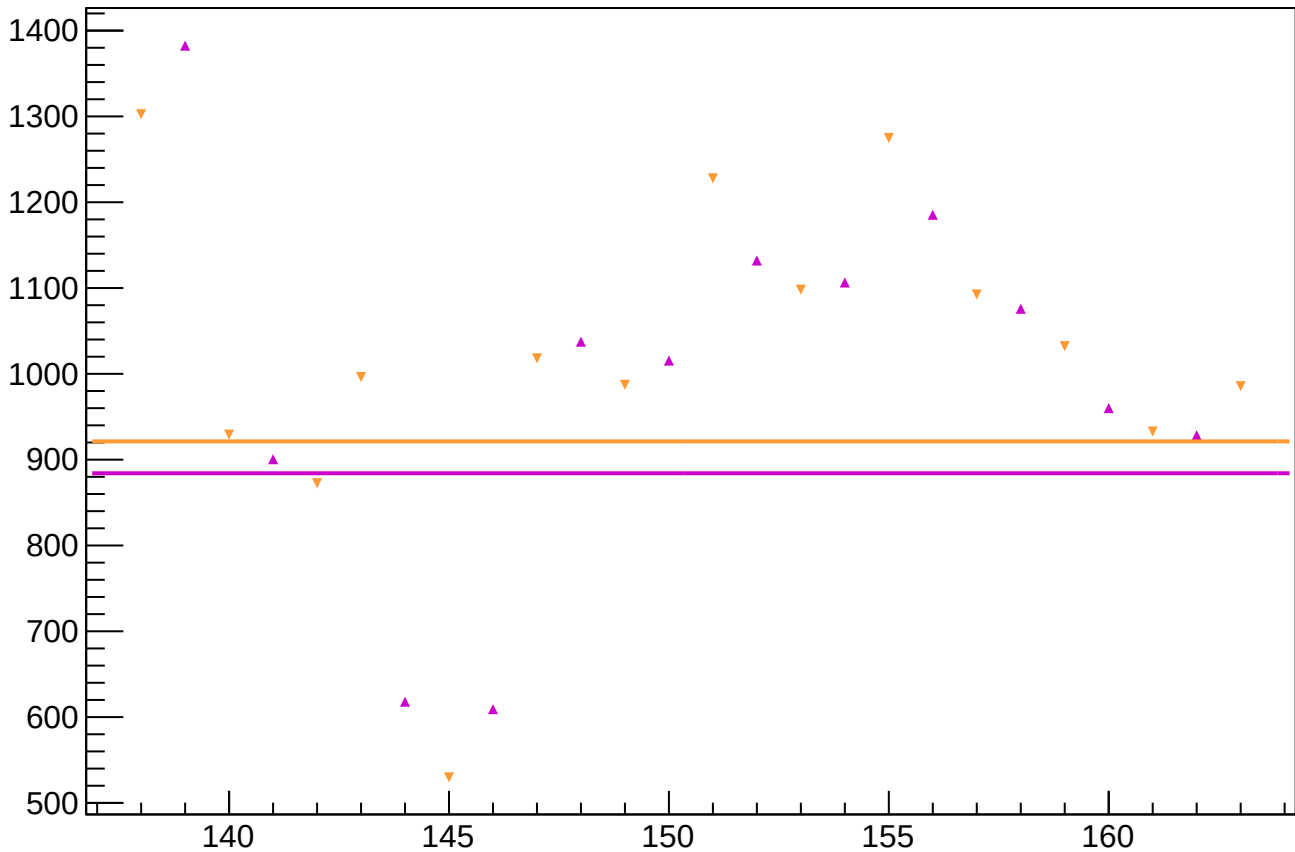
Left In: -76.314+/-292.258  $\chi^2/\text{NDF}$ :8.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -765.271+/-207.379  $\chi^2/\text{NDF}$ : 52.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam3\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 921.293+/-0.208  $\chi^2/\text{NDF}$ :1278112.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 884.148+/-0.207  $\chi^2/\text{NDF}$ :1218083.5/11

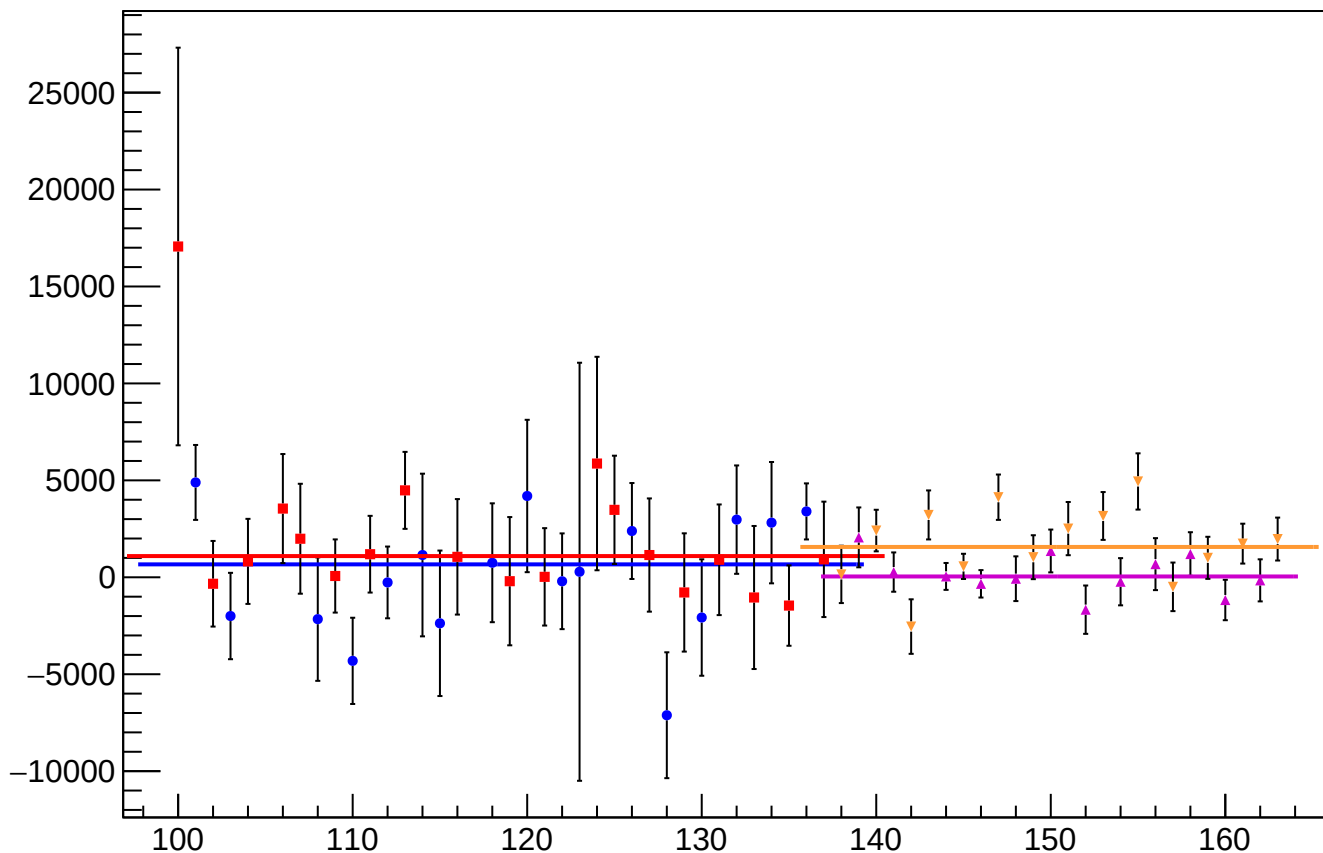
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 902.590+/-0.147  $\chi^2/\text{NDF}$ : 2512236.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam3\_mean vs Slug



Right In: 666.453+/-618.839  $\chi^2/\text{NDF}$ : 25.6/16

Left Out: 1565.030+/-298.225  $\chi^2/\text{NDF}$ : 29.9/13

Right Out: 1094.278+/-602.639  $\chi^2/\text{NDF}$ : 11.0/18

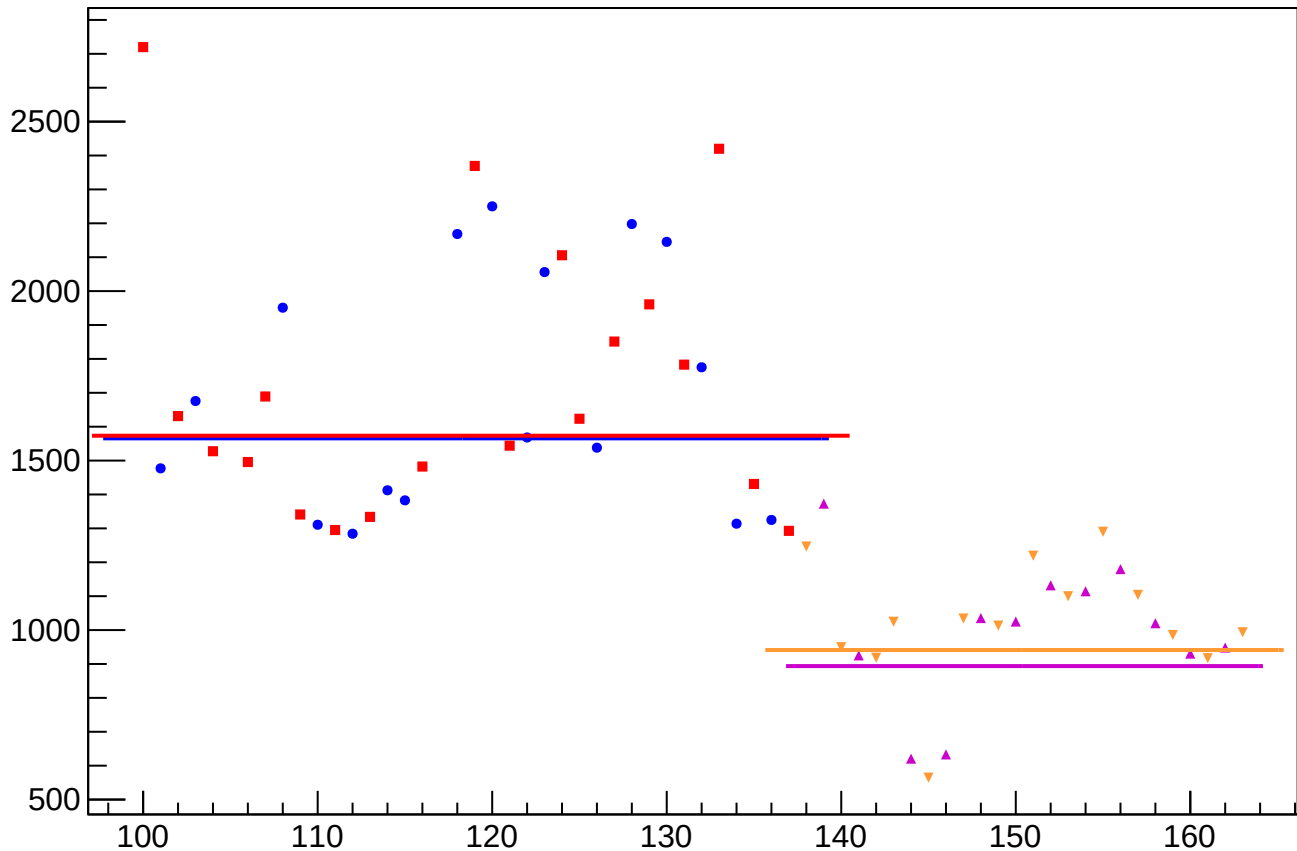
Left In: 42.361+/-295.205  $\chi^2/\text{NDF}$ : 8.1/11

+ sign 1395.677+/-268.656  $\chi^2/\text{NDF}$ : 57.2/30

All: 813.157+/-188.701  $\chi^2/\text{NDF}$ : 88.1/61

- sign 245.928+/-265.107  $\chi^2/\text{NDF}$ : 21.5/30

# asym\_sam3\_rms vs Slug



Right In: 1565.623+/-0.438  $\chi^2/\text{NDF}$ : 490790.2/16

Left Out: 941.159+/-0.211  $\chi^2/\text{NDF}$ : 1059607.0/13

Right Out: 1573.366+/-0.426  $\chi^2/\text{NDF}$ : 462040.3/18

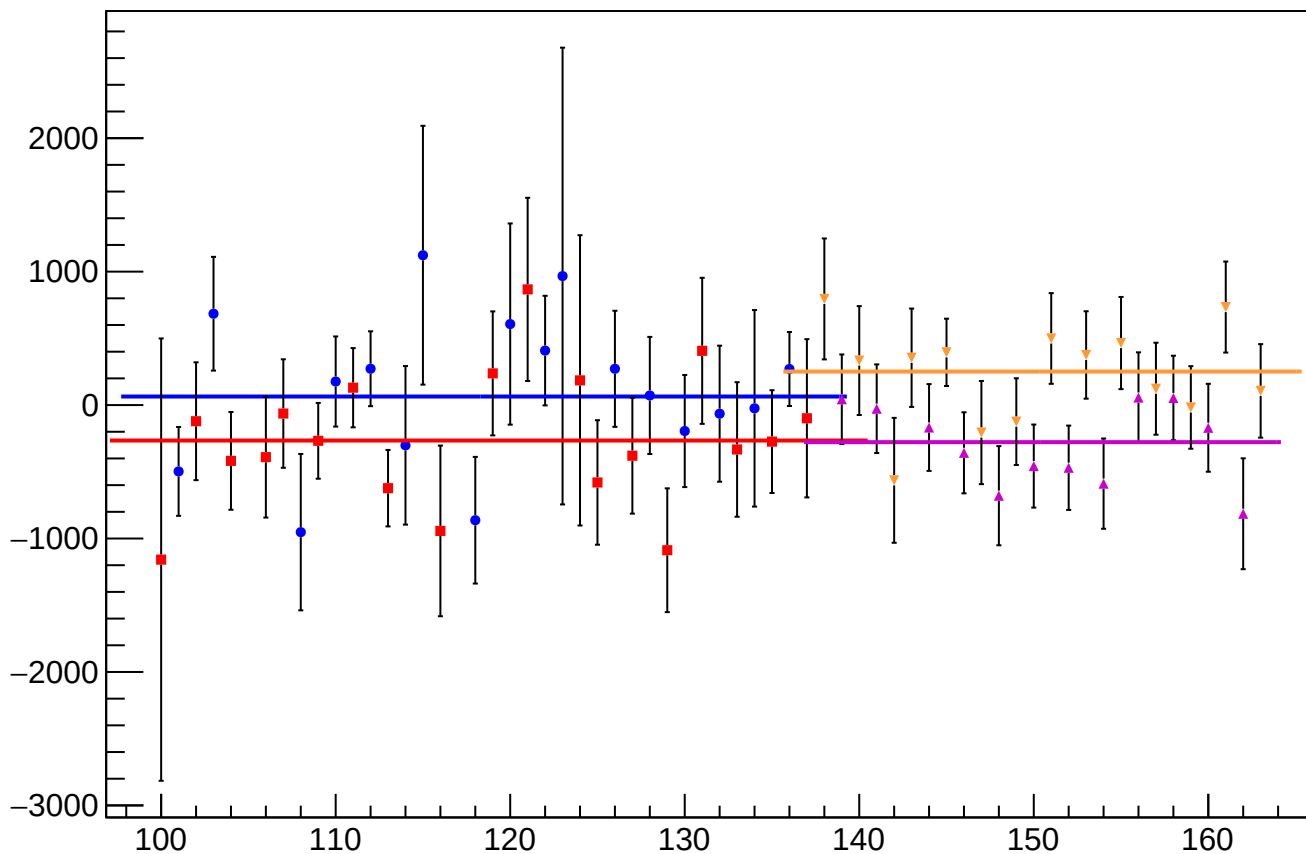
Left In: 893.774+/-0.209  $\chi^2/\text{NDF}$ : 1096940.5/11

+ sign 1058.851+/-0.190  $\chi^2/\text{NDF}$ : 3203098.1/30

All: 1041.846+/-0.133  $\chi^2/\text{NDF}$ : 6829077.1/63

- sign 1025.289+/-0.187  $\chi^2/\text{NDF}$ : 3610165.1/30

# dit\_asym\_sam4\_mean vs Slug



Right In: 64.087 $\pm$ 105.336  $\chi^2/\text{NDF}$ : 16.8/16

Left Out: 251.228 $\pm$ 92.581  $\chi^2/\text{NDF}$ : 11.8/13

Right Out: -265.661 $\pm$ 99.379  $\chi^2/\text{NDF}$ : 14.7/18

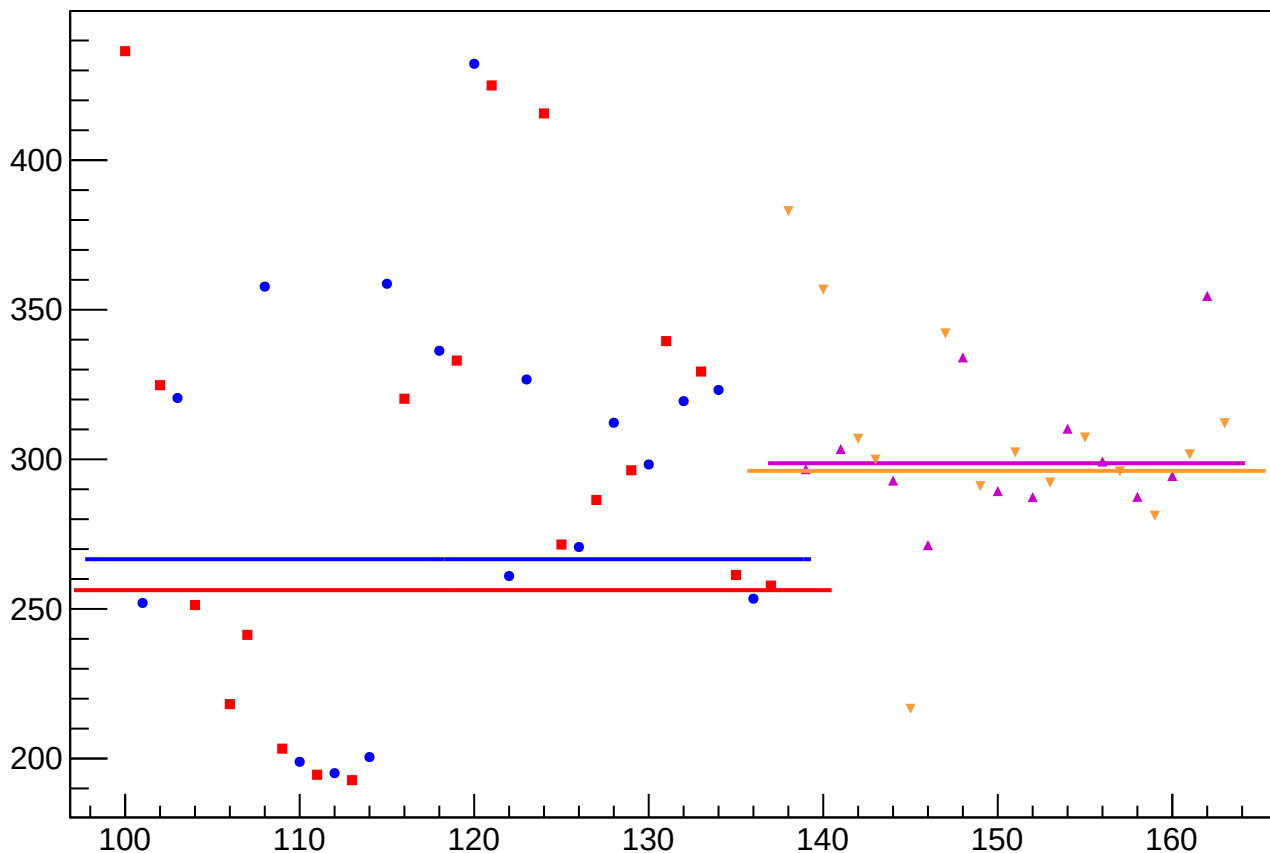
Left In: -277.857 $\pm$ 96.101  $\chi^2/\text{NDF}$ : 8.2/11

+ sign 169.668 $\pm$ 69.540  $\chi^2/\text{NDF}$ : 30.3/30

All: -52.600 $\pm$ 49.010  $\chi^2/\text{NDF}$ : 73.5/61

- sign -271.963 $\pm$ 69.084  $\chi^2/\text{NDF}$ : 22.9/30

# dit\_asym\_sam4\_rms vs Slug



Right In: 266.624 $\pm$ 0.074  $\chi^2$ /NDF: 550752.5/16

Left Out: 296.152 $\pm$ 0.065  $\chi^2$ /NDF: 358637.2/13

Right Out: 256.268 $\pm$ 0.070  $\chi^2$ /NDF: 696896.2/18

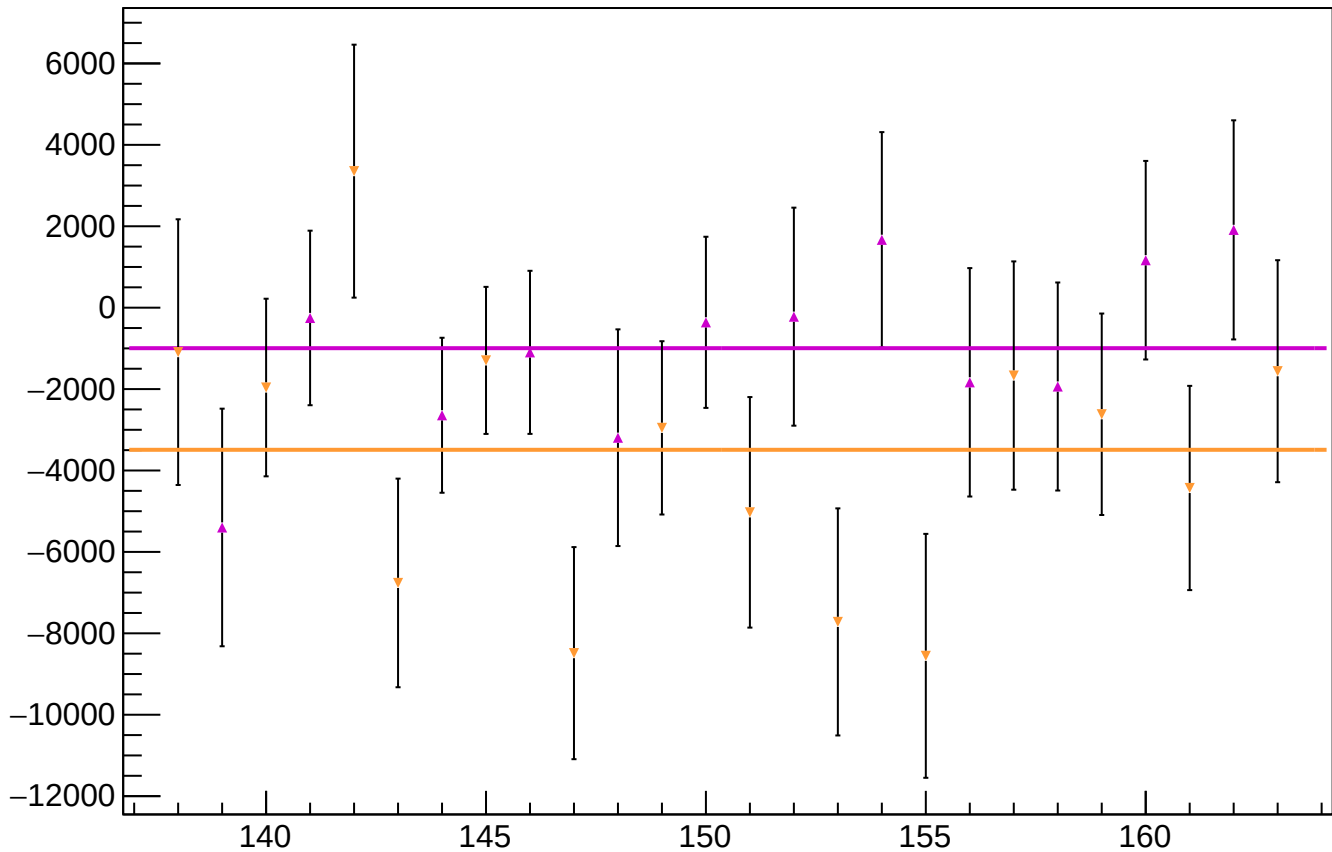
Left In: 298.705 $\pm$ 0.068  $\chi^2$ /NDF: 81273.4/11

+ sign 283.283 $\pm$ 0.049  $\chi^2$ /NDF: 998055.1/30

All: 280.724 $\pm$ 0.035  $\chi^2$ /NDF: 1970066.9/61

- sign 278.198 $\pm$ 0.049  $\chi^2$ /NDF: 966629.1/30

# asym\_sam4\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -3491.490+/-676.840  $\chi^2/\text{NDF}$ :19.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

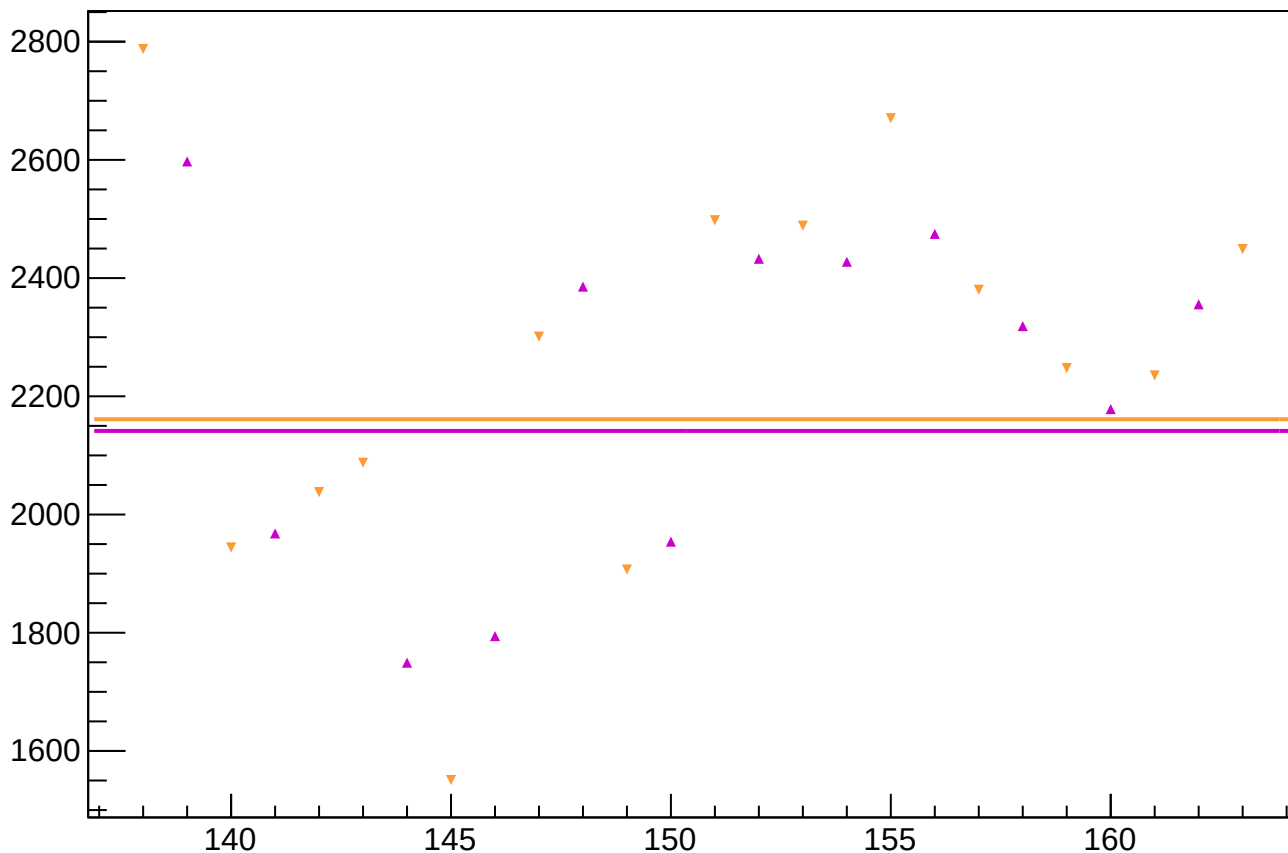
Left In: -995.156+/-690.693  $\chi^2/\text{NDF}$ :7.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2268.608+/-483.422  $\chi^2/\text{NDF}$ : 33.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2161.194+/-0.479  $\chi^2/\text{NDF}$ : 513271.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

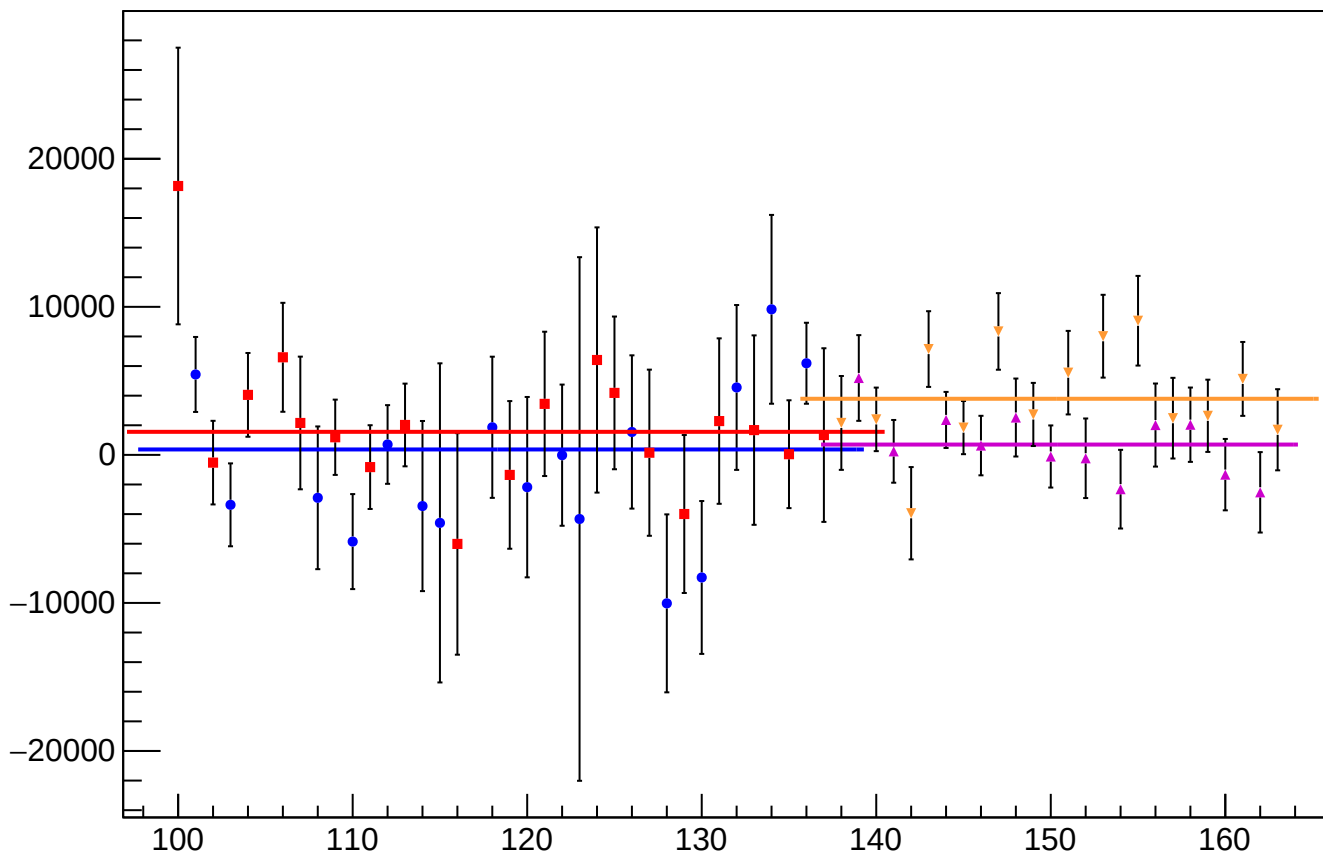
Left In: 2141.461+/-0.488  $\chi^2/\text{NDF}$ : 337584.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2151.527+/-0.342  $\chi^2/\text{NDF}$ : 851688.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam4\_mean vs Slug



Right In: 366.454 $\pm$ 992.480  $\chi^2$ /NDF: 24.2/16

Left Out: 3790.007 $\pm$ 672.550  $\chi^2$ /NDF:20.1/13

Right Out: 1557.388 $\pm$ 924.003  $\chi^2$ /NDF: 10.5/18

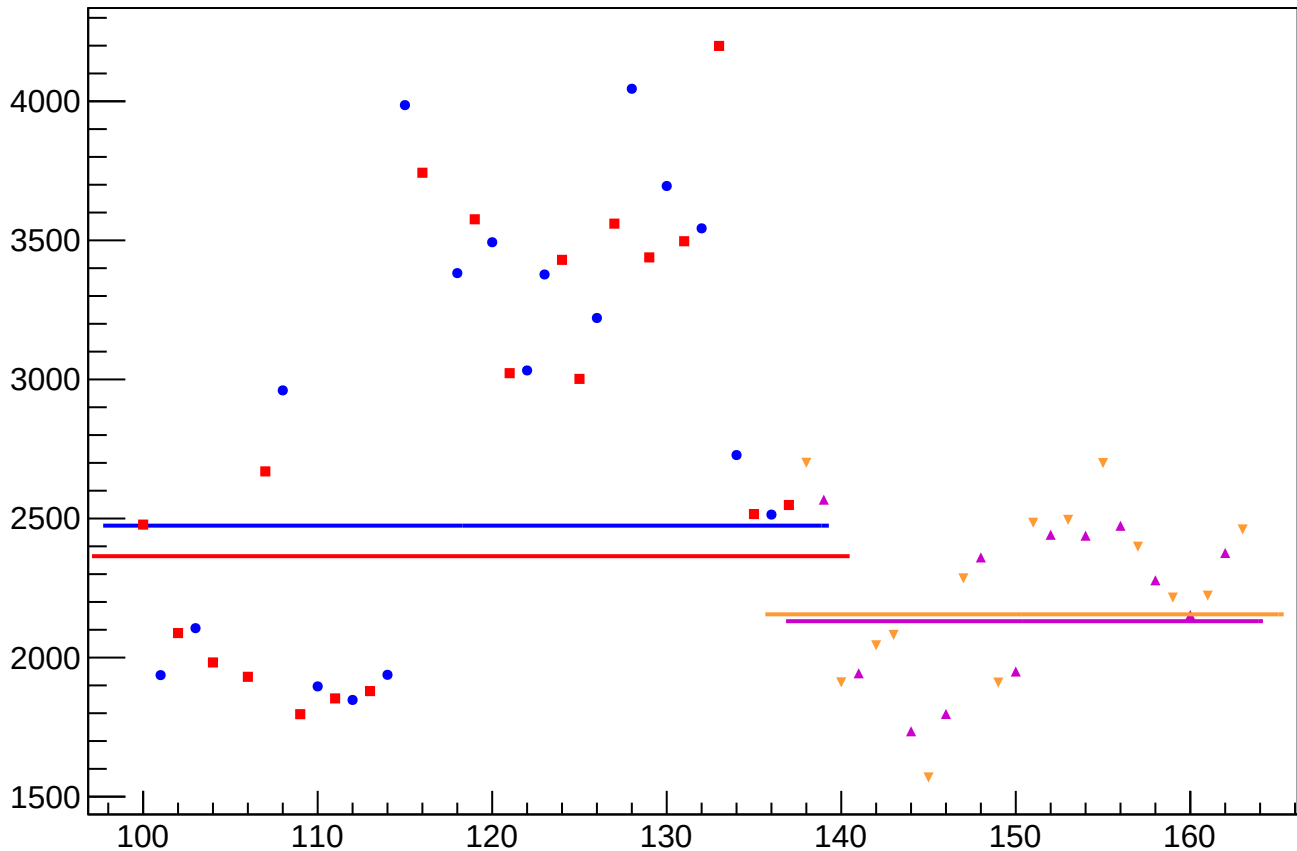
Left In: 697.331 $\pm$ 687.951  $\chi^2$ /NDF:7.9/11

+ sign 2712.633 $\pm$ 556.758  $\chi^2$ /NDF: 52.4/30

All: 1850.713 $\pm$ 391.925  $\chi^2$ /NDF: 76.2/61

- sign 1004.059 $\pm$ 551.805  $\chi^2$ /NDF: 19.0/30

# asym\_sam4\_rms vs Slug



Right In: 2474.389+/-0.702  $\chi^2/\text{NDF}$ : 906262.1/16

Left Out: 2155.563+/-0.476  $\chi^2/\text{NDF}$ : 498743.4/13

Right Out: 2364.507+/-0.653  $\chi^2/\text{NDF}$ : 1023402.8/18

Left In: 2130.869+/-0.486  $\chi^2/\text{NDF}$ : 340341.8/11

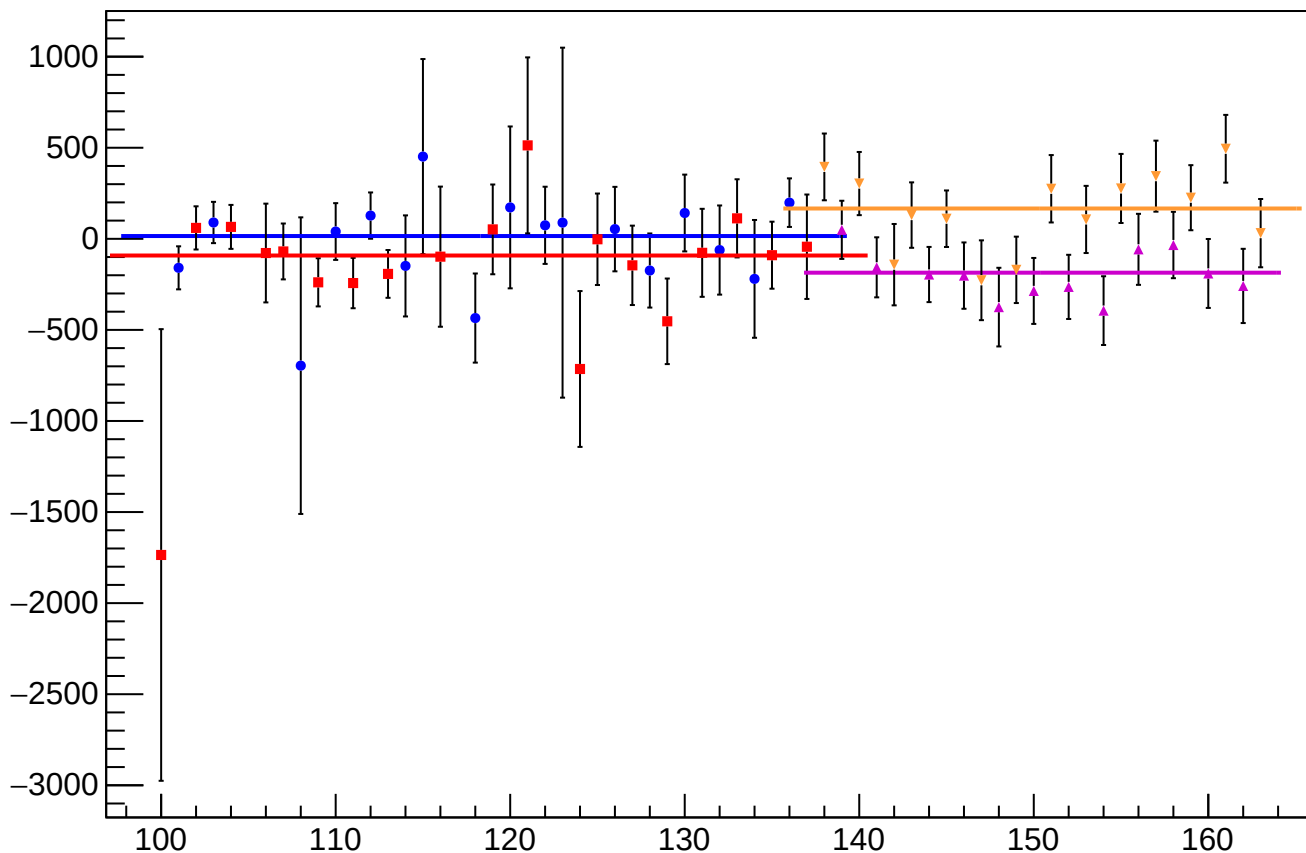
+ sign 2255.896+/-0.394  $\chi^2/\text{NDF}$ : 1546447.3/30

All: 2234.858+/-0.277  $\chi^2/\text{NDF}$ : 2998120.3/63

- sign 2214.193+/-0.390  $\chi^2/\text{NDF}$ : 1446012.3/30



# dit\_asym\_sam5\_mean vs Slug



Right In: 15.303+/-46.443  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 166.454+/-49.506  $\chi^2/\text{NDF}$ : 16.3/13

Right Out: -91.634+/-43.318  $\chi^2/\text{NDF}$ : 15.7/18

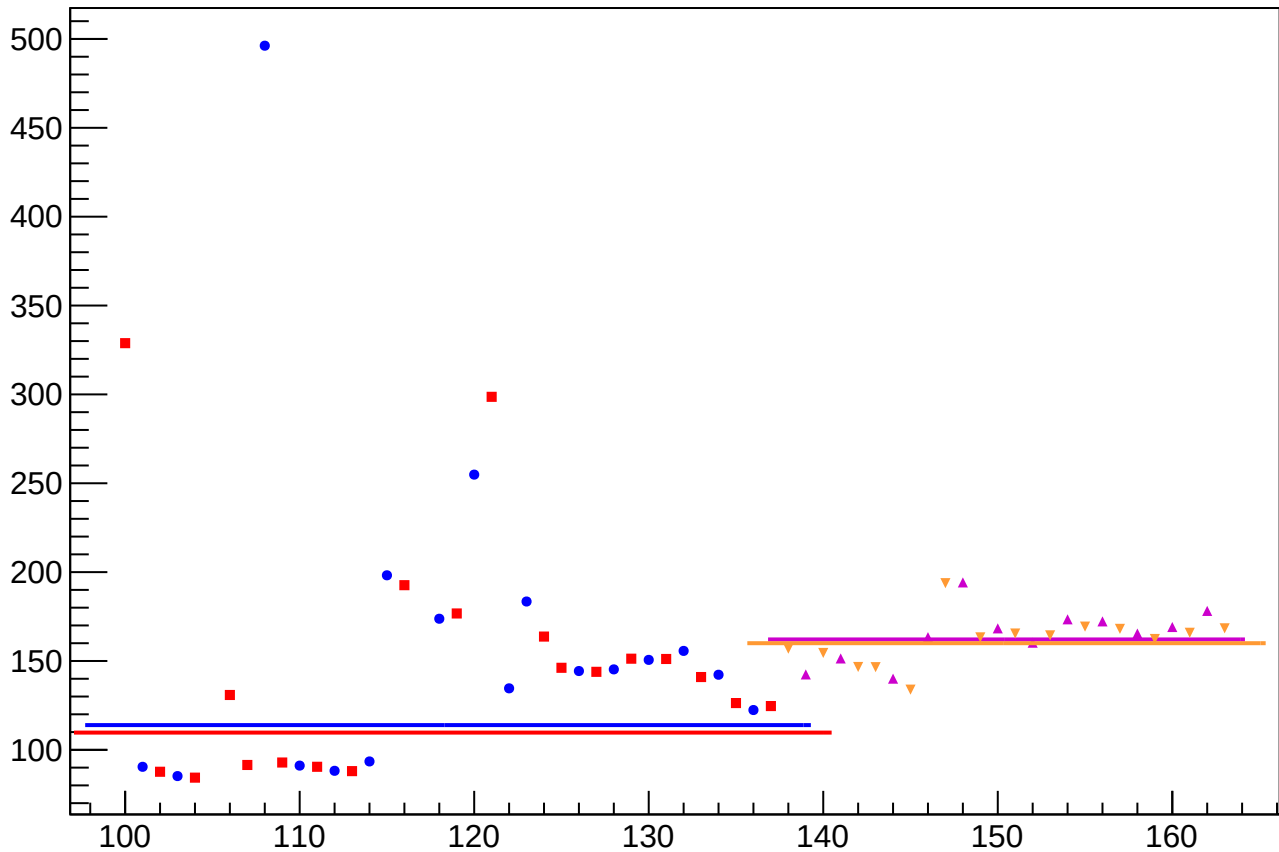
Left In: -185.924+/-51.955  $\chi^2/\text{NDF}$ : 6.0/11

+ sign 86.059+/-33.871  $\chi^2/\text{NDF}$ : 33.8/30

All: -24.056+/-23.735  $\chi^2/\text{NDF}$ : 78.1/61

- sign -130.301+/-33.271  $\chi^2/\text{NDF}$ : 23.6/30

# dit\_asym\_sam5\_rms vs Slug



Right In: 113.932 $\pm$ 0.033  $\chi^2$ /NDF: 1407849.3/16

Left Out: 160.009 $\pm$ 0.035  $\chi^2$ /NDF: 143435.4/13

Right Out: 109.709 $\pm$ 0.031  $\chi^2$ /NDF: 1242014.6/18

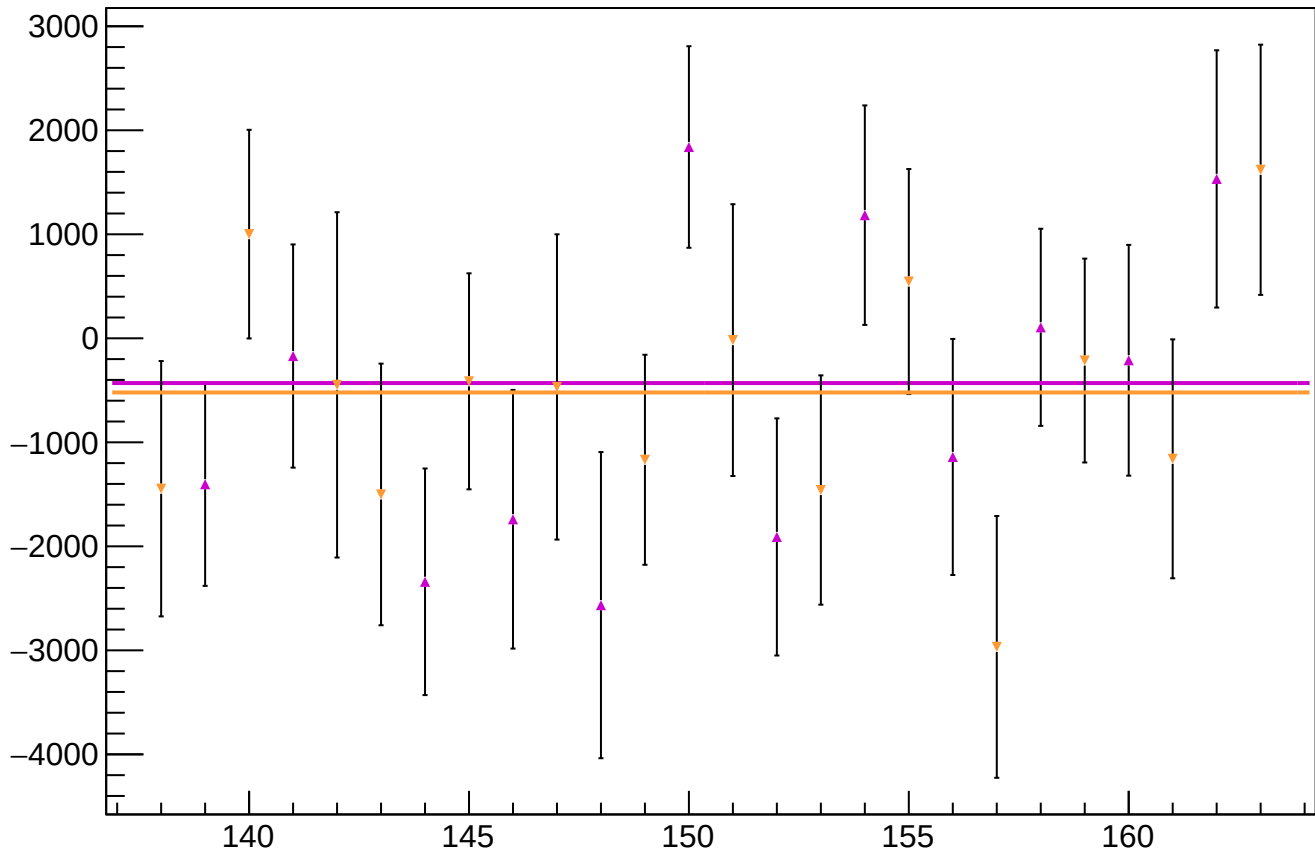
Left In: 162.123 $\pm$ 0.037  $\chi^2$ /NDF: 156544.3/11

+ sign 135.501 $\pm$ 0.024  $\chi^2$ /NDF: 2472800.2/30

All: 133.314 $\pm$ 0.017  $\chi^2$ /NDF: 5088513.3/61

- sign 131.204 $\pm$ 0.024  $\chi^2$ /NDF: 2599328.4/30

# asym\_sam5\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -520.725 $\pm$ 309.919  $\chi^2$ /NDF:13.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

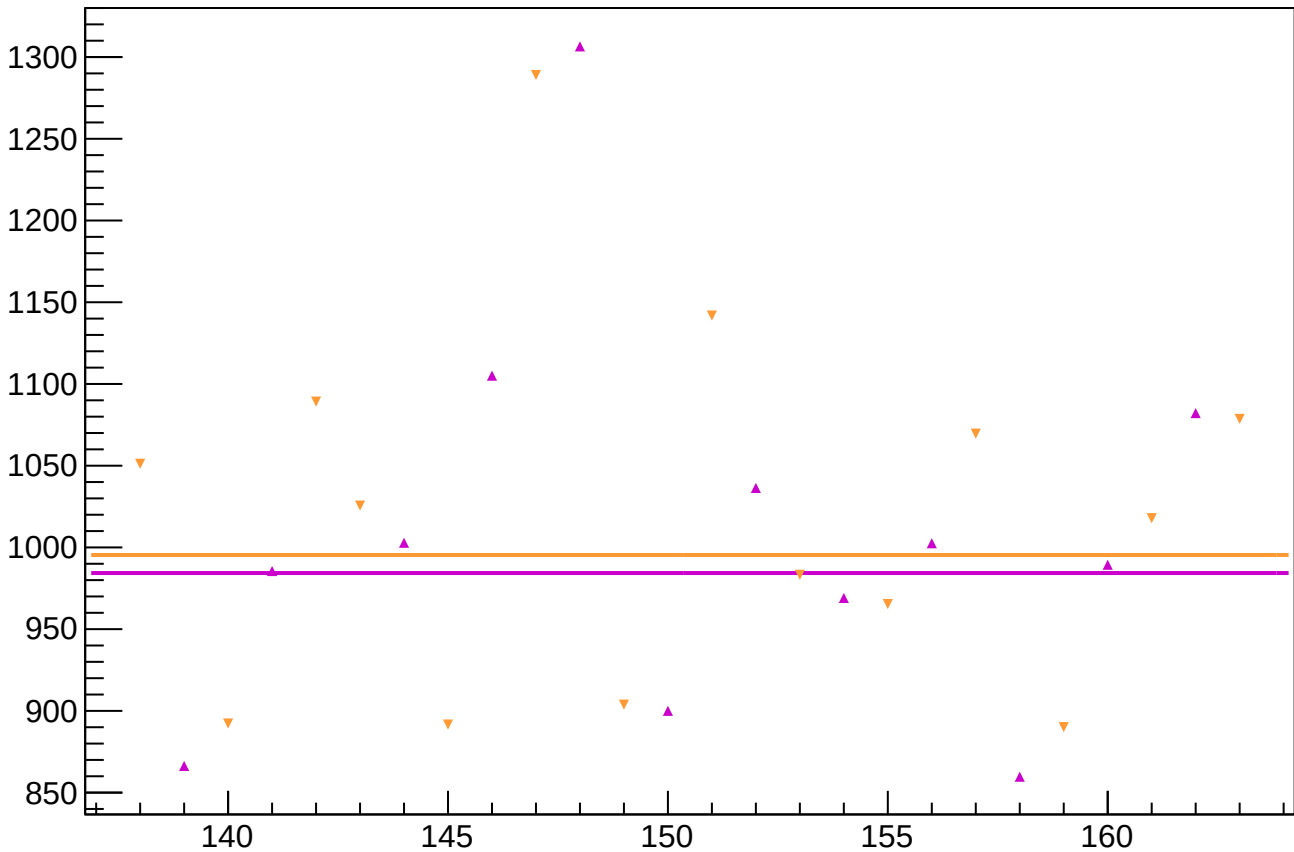
Left In: -430.247 $\pm$ 316.922  $\chi^2$ /NDF:20.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -476.497 $\pm$ 221.580  $\chi^2$ /NDF: 33.3/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam5\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 995.382+/-0.219  $\chi^2/\text{NDF}$ : 216621.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

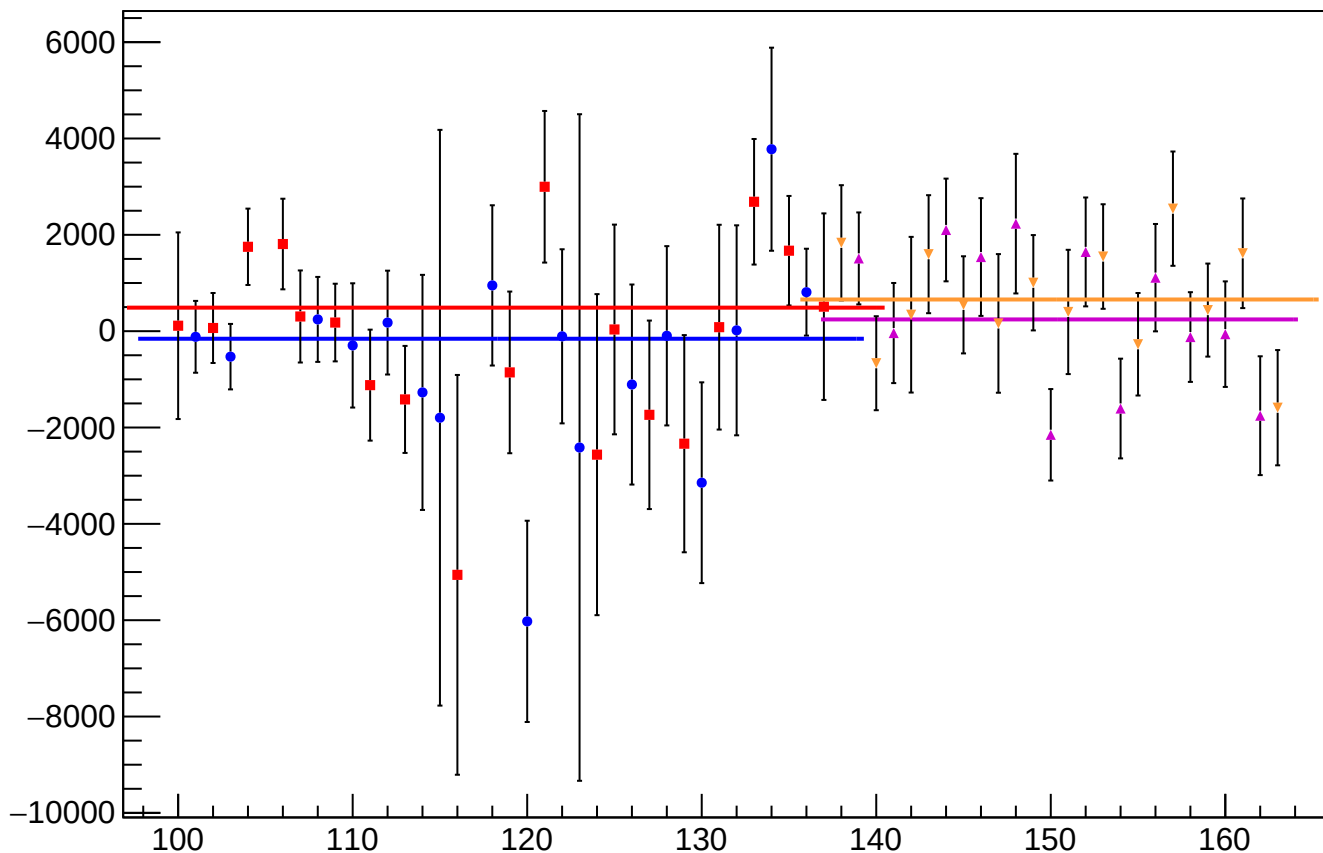
Left In: 984.340+/-0.224  $\chi^2/\text{NDF}$ : 211841.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 989.984+/-0.157  $\chi^2/\text{NDF}$ : 429703.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam5\_mean vs Slug



Right In:  $-157.178 \pm 312.499$   $\chi^2/\text{NDF}$ : 16.2/16

Left Out:  $657.770 \pm 303.260$   $\chi^2/\text{NDF}$ : 12.0/13

Right Out:  $488.583 \pm 282.758$   $\chi^2/\text{NDF}$ : 22.6/18

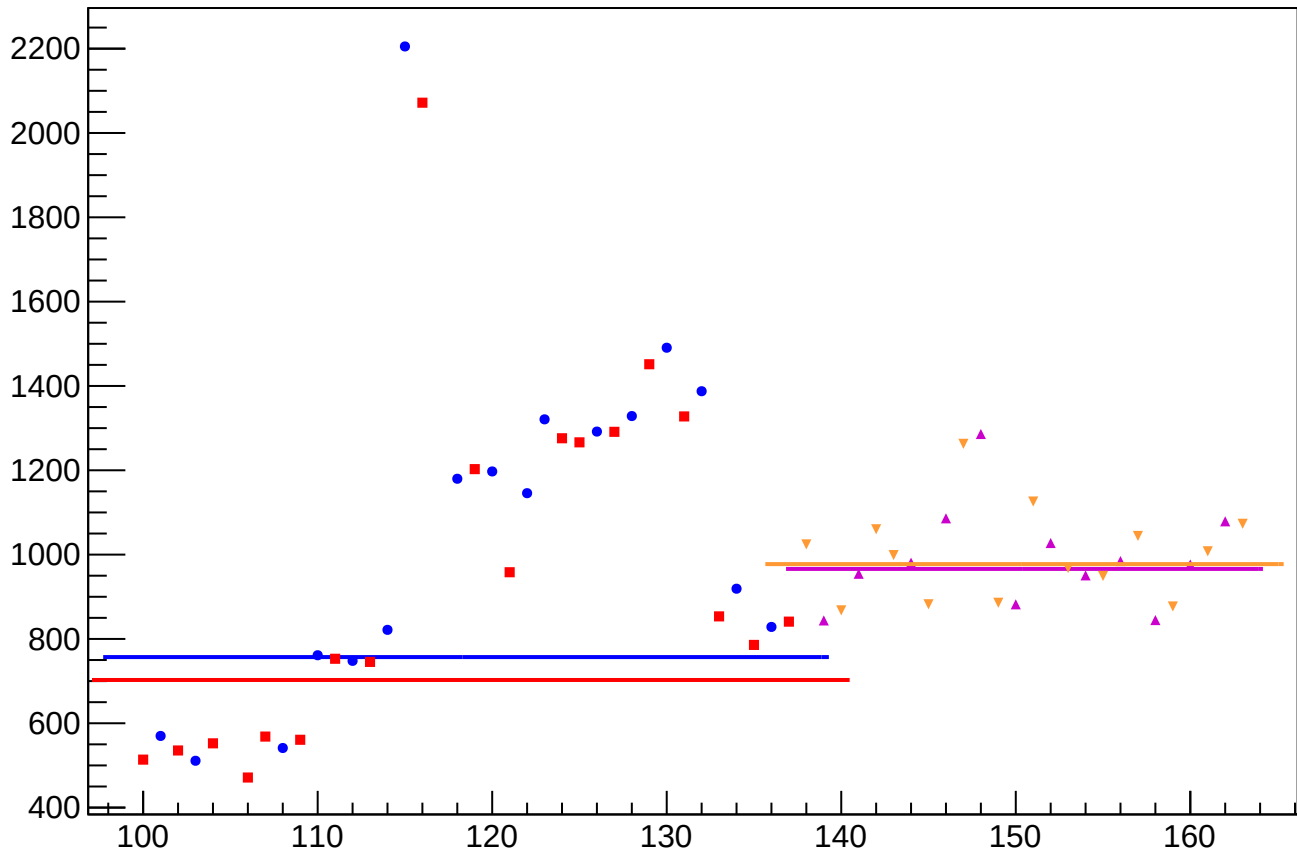
Left In:  $243.843 \pm 311.242$   $\chi^2/\text{NDF}$ : 22.4/11

+ sign  $262.522 \pm 217.630$   $\chi^2/\text{NDF}$ : 31.7/30

All:  $322.476 \pm 150.852$   $\chi^2/\text{NDF}$ : 77.3/61

- sign  $377.922 \pm 209.288$   $\chi^2/\text{NDF}$ : 45.4/30

# asym\_sam5\_rms vs Slug



Right In: 756.985+/-0.221  $\chi^2/\text{NDF}$ : 1711285.9/16

Left Out: 977.497+/-0.214  $\chi^2/\text{NDF}$ : 218002.9/13

Right Out: 702.656+/-0.200  $\chi^2/\text{NDF}$ : 1689579.7/18

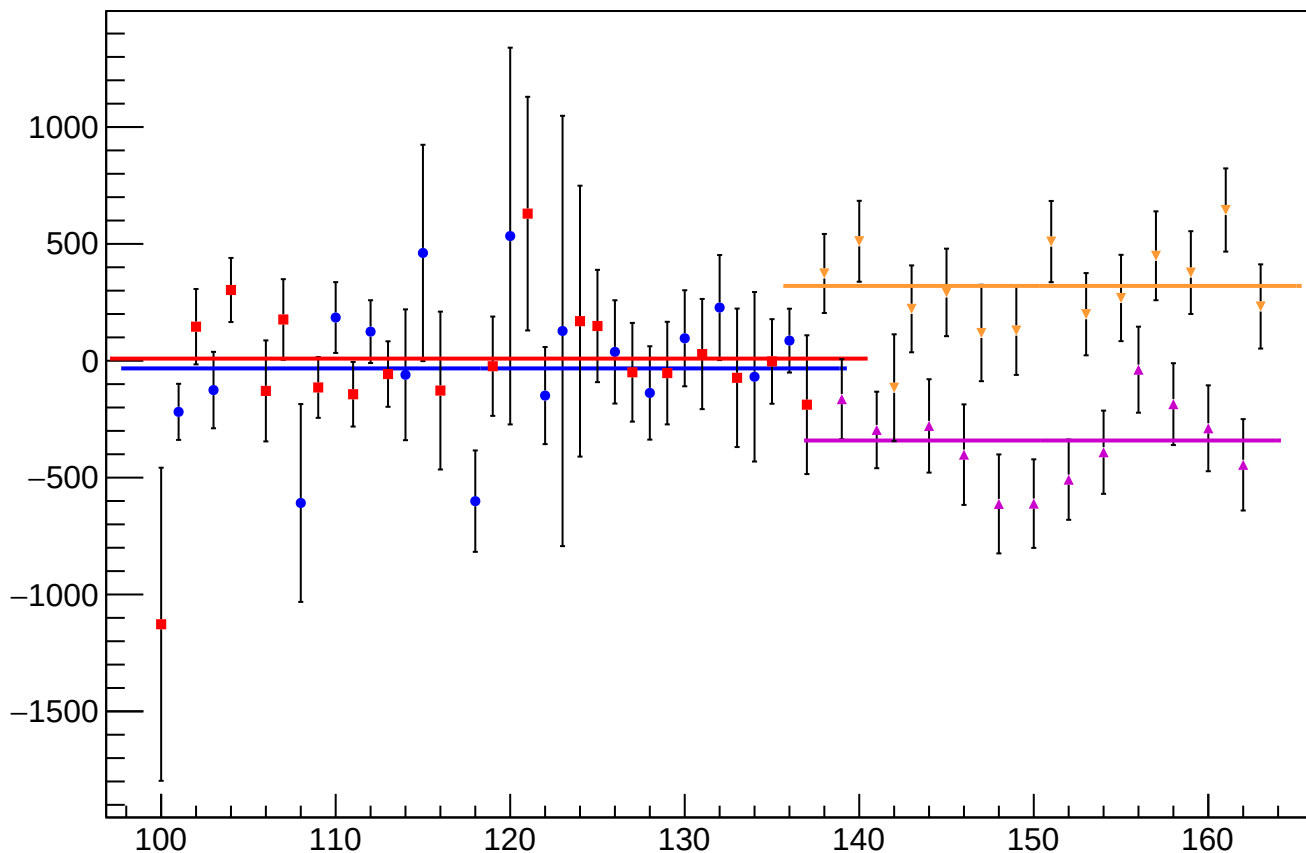
Left In: 966.063+/-0.220  $\chi^2/\text{NDF}$ : 223645.7/11

+ sign 870.549+/-0.154  $\chi^2/\text{NDF}$ : 2442156.1/30

All: 845.200+/-0.107  $\chi^2/\text{NDF}$ : 5192378.6/61

- sign 821.757+/-0.148  $\chi^2/\text{NDF}$ : 2697995.0/30

# dit\_asym\_sam6\_mean vs Slug



Right In:  $-32.694 \pm 48.431$   $\chi^2/\text{NDF}: 19.7/16$

Left Out:  $320.239 \pm 49.214$   $\chi^2/\text{NDF}: 13.1/13$

Right Out:  $9.277 \pm 45.600$   $\chi^2/\text{NDF}: 14.7/18$

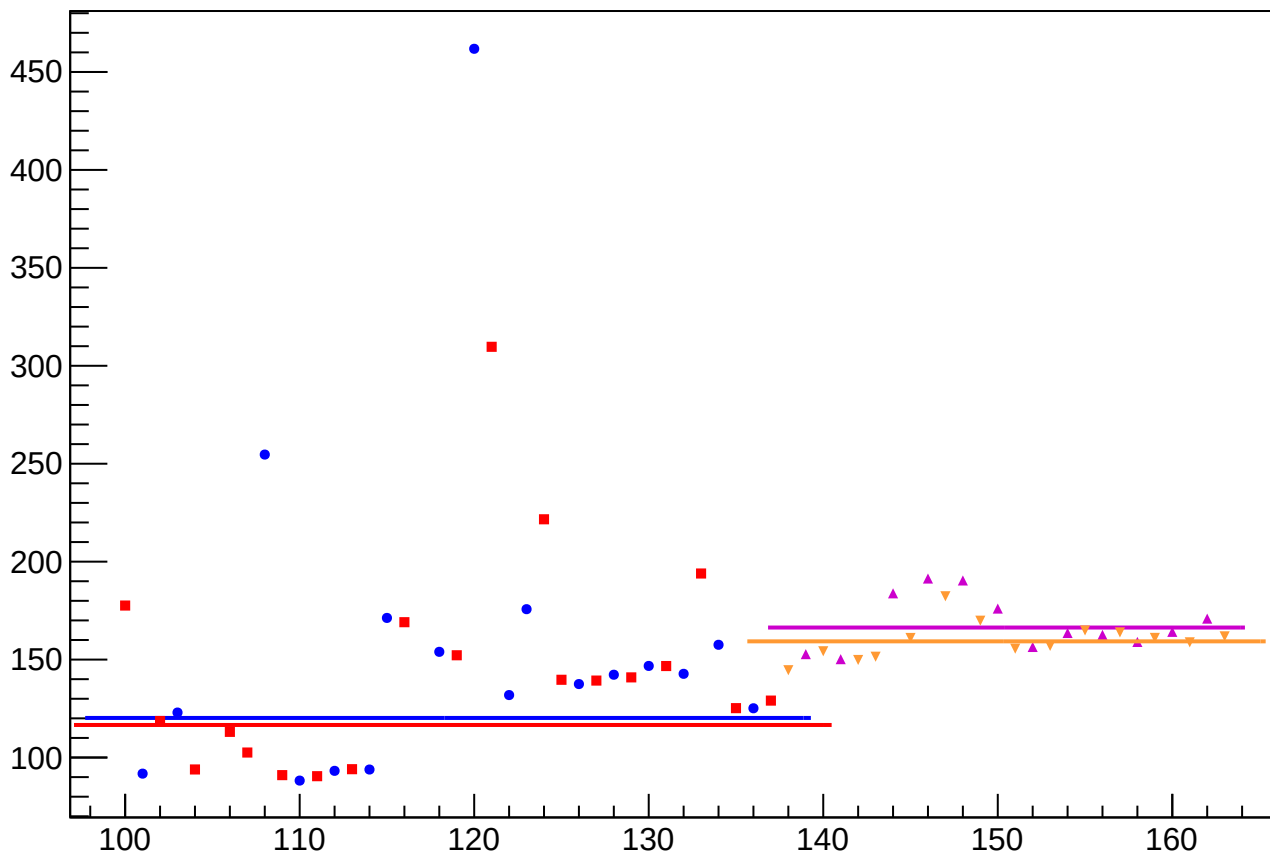
Left In:  $-341.163 \pm 53.328$   $\chi^2/\text{NDF}: 9.9/11$

+ sign  $140.943 \pm 34.519$   $\chi^2/\text{NDF}: 59.0/30$

All:  $1.662 \pm 24.457$   $\chi^2/\text{NDF}: 141.2/61$

- sign  $-138.732 \pm 34.657$   $\chi^2/\text{NDF}: 49.5/30$

# dit\_asym\_sam6\_rms vs Slug



Right In: 120.207 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 1062326.6/16

Left Out: 159.312 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 60062.2/13

Right Out: 116.618 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 997956.6/18

Left In: 166.362 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 118270.7/11

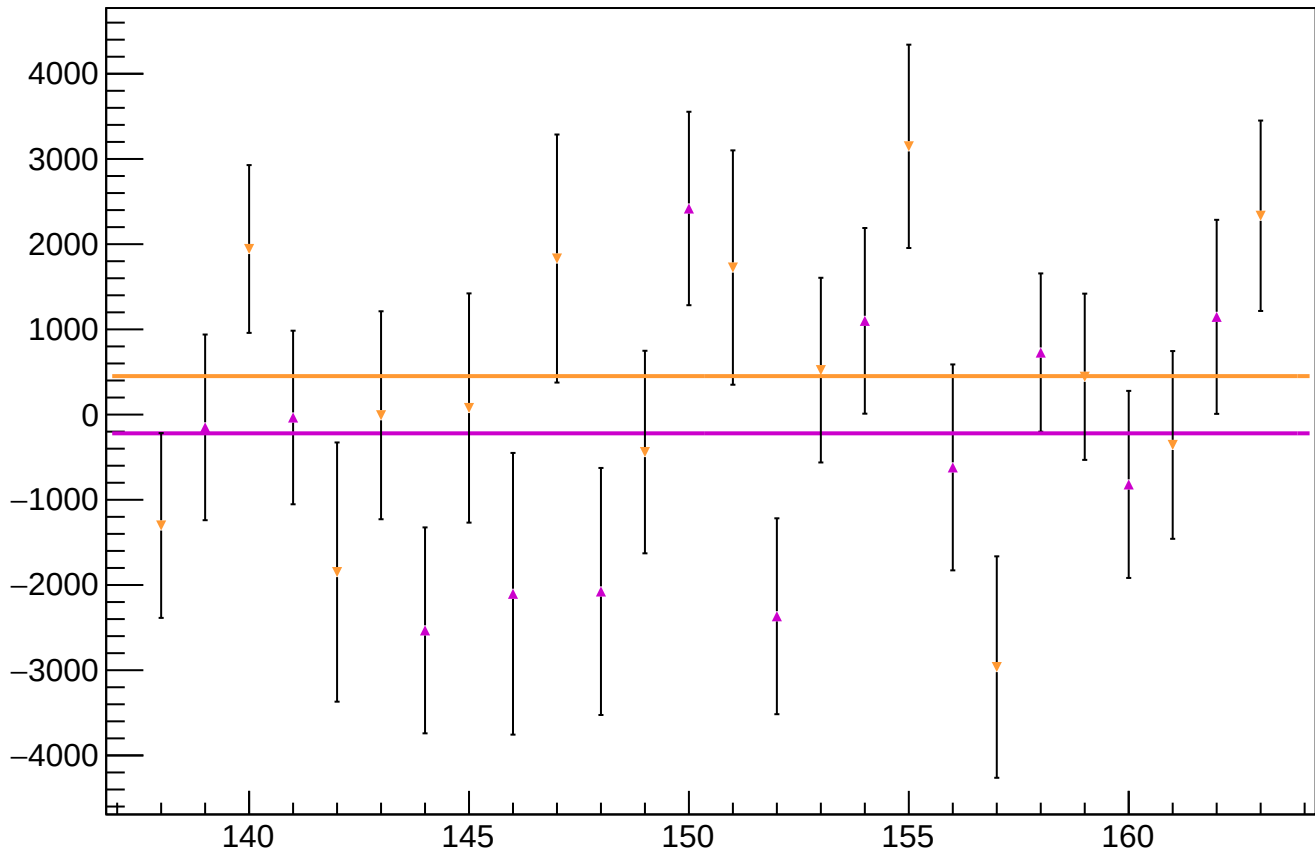
+ sign 139.446 $\pm$ 0.024  $\chi^2/\text{NDF}$ : 1763891.9/30

All: 138.540 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 3888104.3/61

- sign 137.627 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 2121448.7/30



# asym\_sam6\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 451.528+/-315.155  $\chi^2/\text{NDF}$ : 25.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

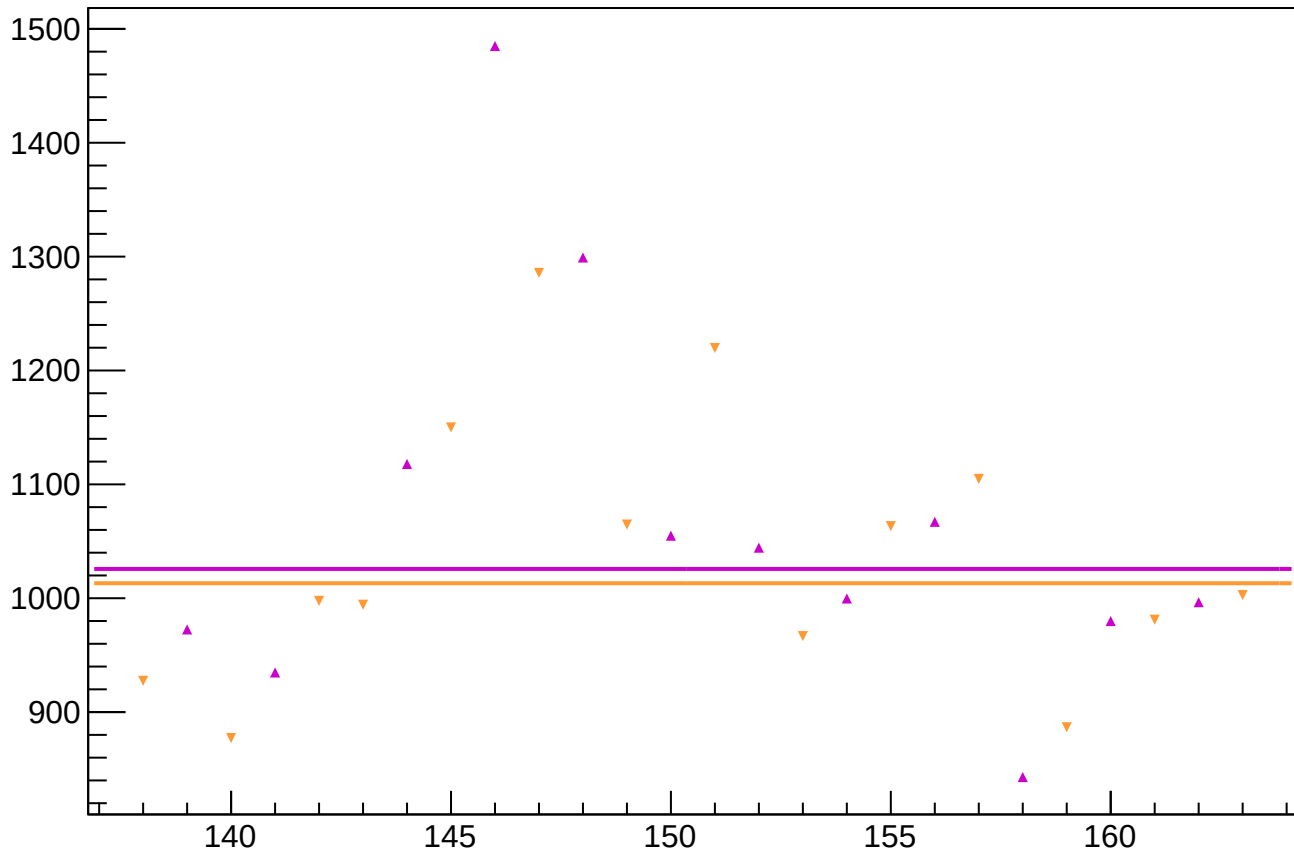
Left In: -219.983+/-330.534  $\chi^2/\text{NDF}$ : 19.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 131.757+/-228.091  $\chi^2/\text{NDF}$ : 47.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1013.155+/-0.223  $\chi^2/\text{NDF}$ :243592.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

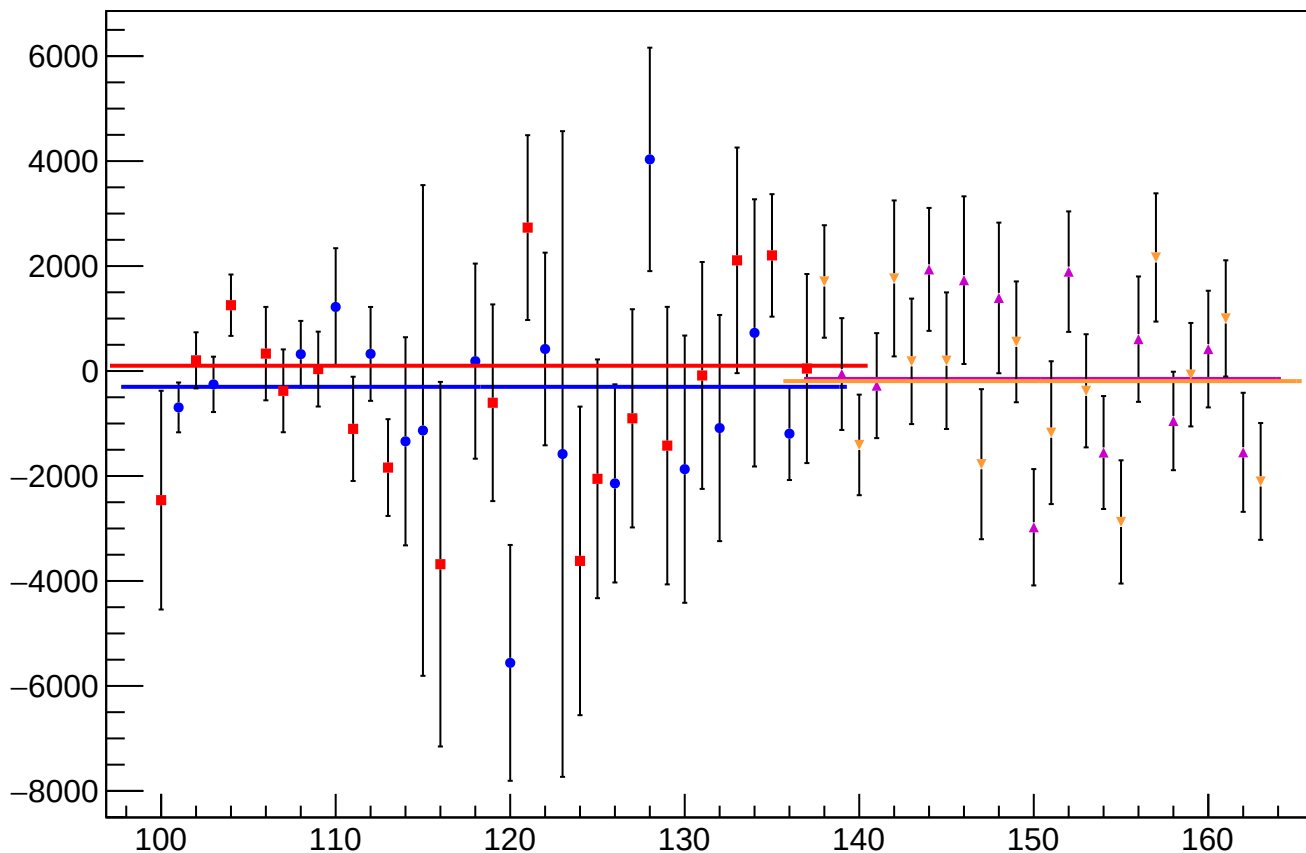
Left In: 1025.724+/-0.234  $\chi^2/\text{NDF}$ :345443.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1019.141+/-0.161  $\chi^2/\text{NDF}$ : 590550.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam6\_mean vs Slug



Right In:  $-301.000 \pm 250.042$   $\chi^2/\text{NDF}$ : 16.8/16

Left Out:  $-192.407 \pm 310.162$   $\chi^2/\text{NDF}$ : 21.9/13

Right Out:  $100.857 \pm 245.981$   $\chi^2/\text{NDF}$ : 22.5/18

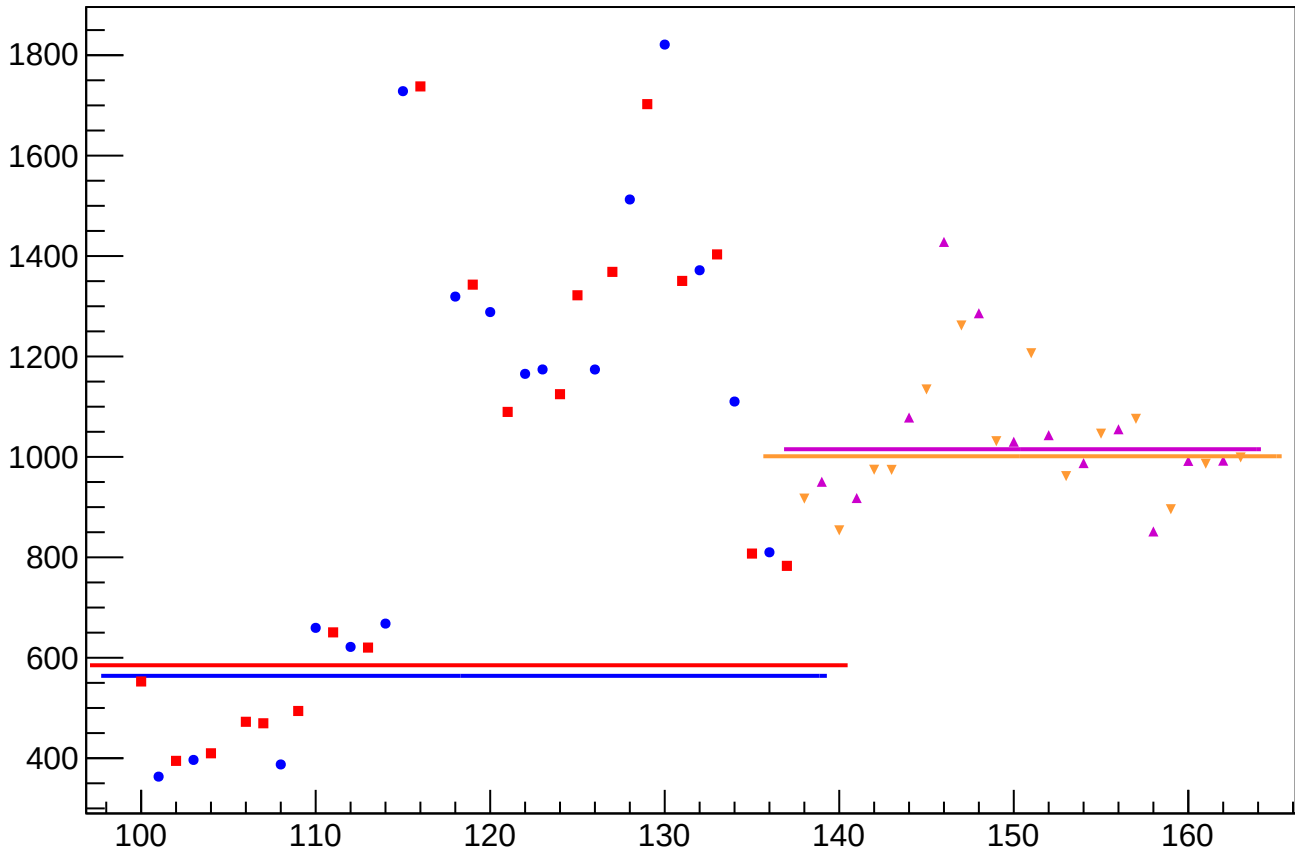
Left In:  $-150.848 \pm 327.080$   $\chi^2/\text{NDF}$ : 20.0/11

+ sign  $-258.225 \pm 194.663$   $\chi^2/\text{NDF}$ : 38.9/30

All:  $-125.470 \pm 138.324$   $\chi^2/\text{NDF}$ : 82.7/61

- sign  $9.926 \pm 196.591$   $\chi^2/\text{NDF}$ : 42.9/30

# asym\_sam6\_rms vs Slug



Right In: 564.003 $\pm$ 0.177  $\chi^2$ /NDF: 3261491.3/16

Left Out: 1001.283 $\pm$ 0.219  $\chi^2$ /NDF: 231949.3/13

+ sign 736.250 $\pm$ 0.138  $\chi^2$ /NDF: 5902859.5/30

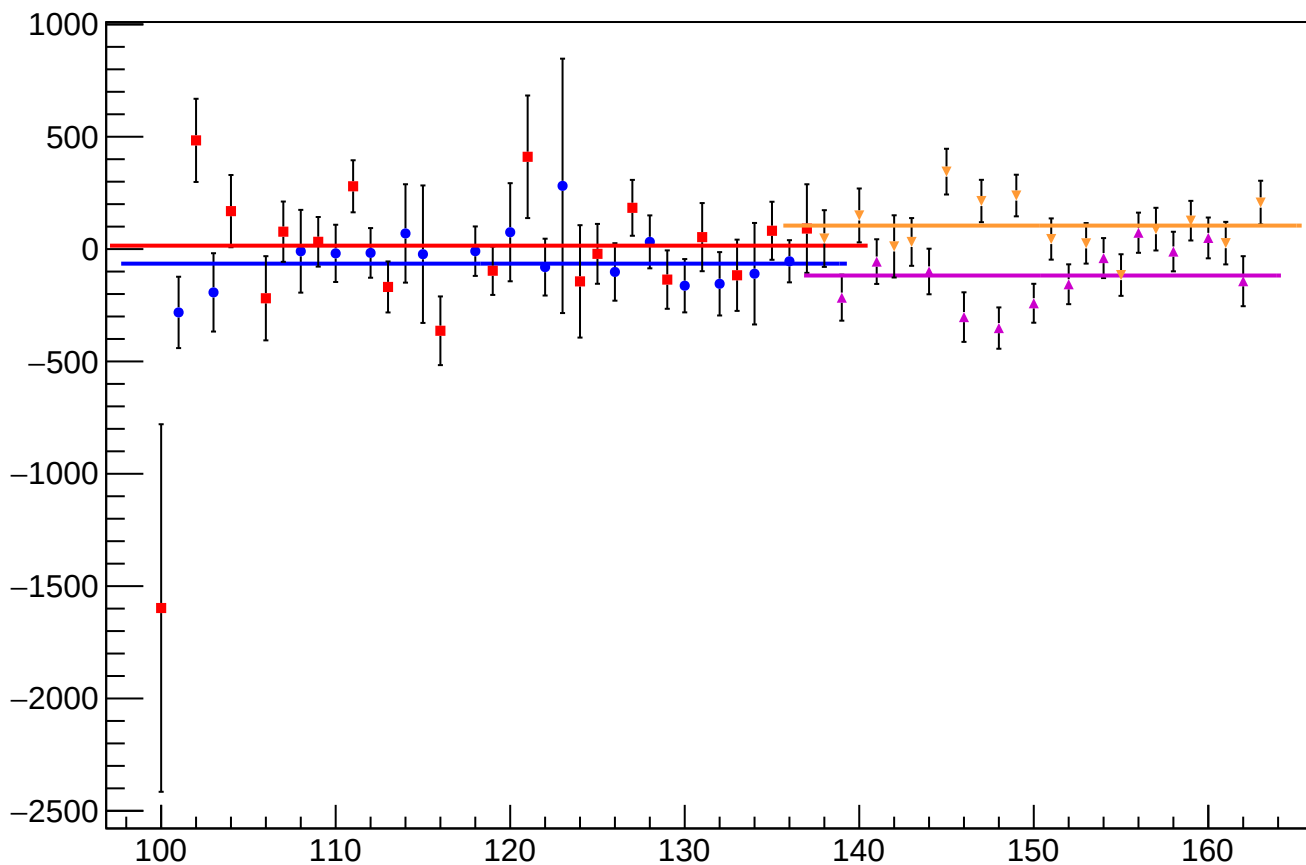
Right Out: 585.070 $\pm$ 0.174  $\chi^2$ /NDF: 2820837.8/18

All: 738.353 $\pm$ 0.098  $\chi^2$ /NDF: 11239186.9/63

Left In: 1015.308 $\pm$ 0.231  $\chi^2$ /NDF: 304646.1/11

- sign 740.497 $\pm$ 0.139  $\chi^2$ /NDF: 5335856.0/30

# dit\_asym\_sam7\_mean vs Slug



Right In:  $-64.797 \pm 34.629$   $\chi^2/\text{NDF}$ : 6.2/16

Left Out:  $104.587 \pm 26.593$   $\chi^2/\text{NDF}$ : 19.0/13

Right Out:  $15.294 \pm 33.422$   $\chi^2/\text{NDF}$ : 35.0/18

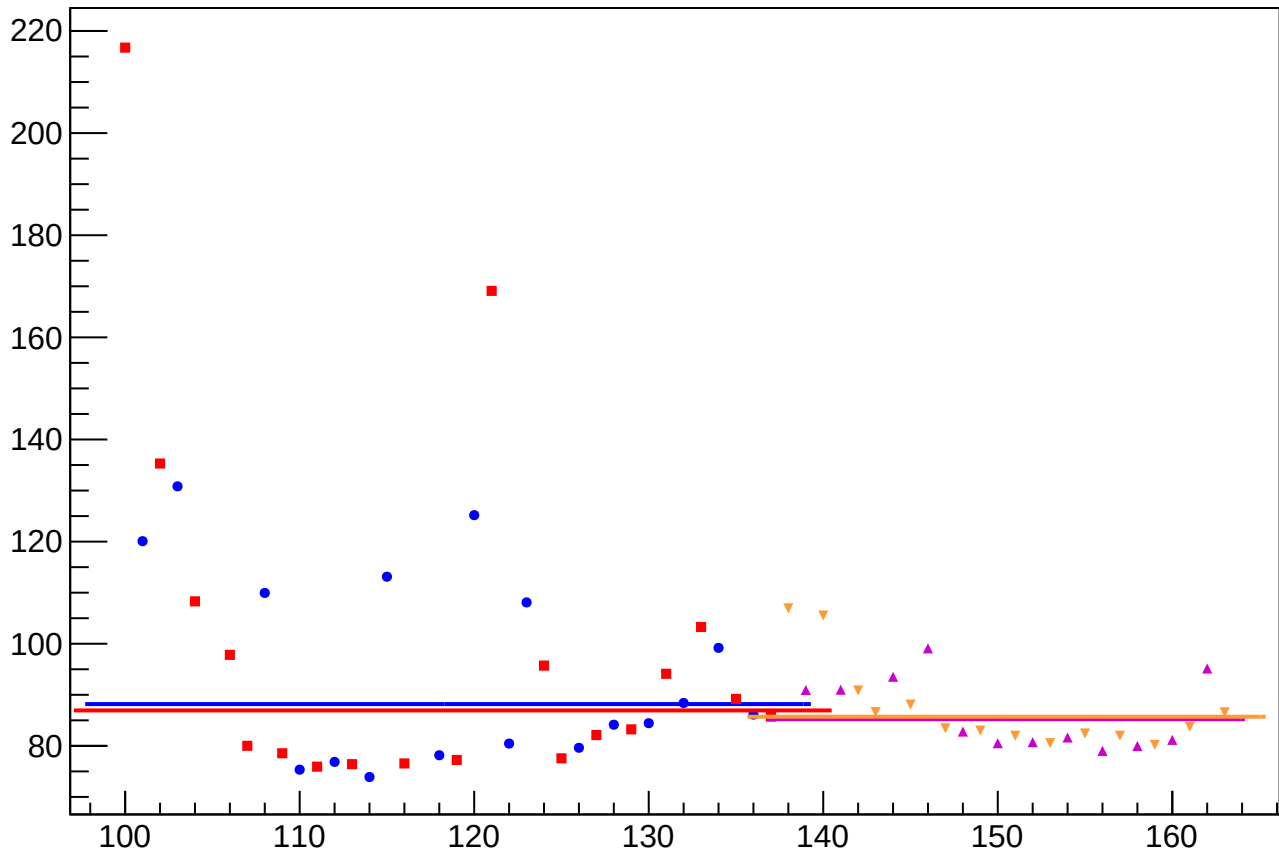
Left In:  $-117.637 \pm 27.349$   $\chi^2/\text{NDF}$ : 23.1/11

+ sign  $41.753 \pm 21.091$   $\chi^2/\text{NDF}$ : 40.2/30

All:  $-11.098 \pm 14.940$   $\chi^2/\text{NDF}$ : 120.3/61

- sign  $-64.323 \pm 21.166$   $\chi^2/\text{NDF}$ : 67.5/30

# dit\_asym\_sam7\_rms vs Slug



Right In: 88.186+/-0.024  $\chi^2$ /NDF: 394447.7/16

Left Out: 85.712+/-0.019  $\chi^2$ /NDF:142387.1/13

Right Out: 86.943+/-0.024  $\chi^2$ /NDF: 531359.9/18

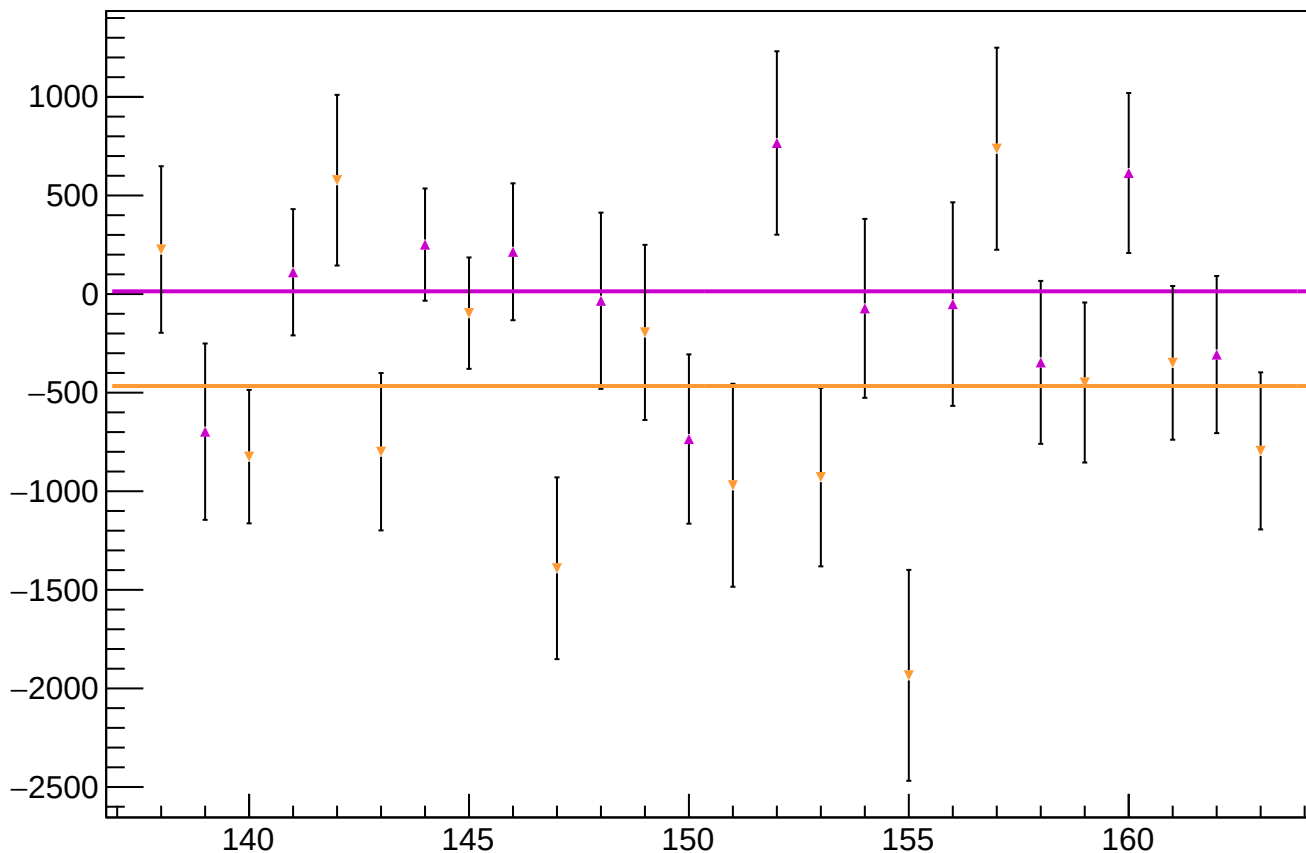
Left In: 85.225+/-0.019  $\chi^2$ /NDF:110307.0/11

+ sign 86.630+/-0.015  $\chi^2$ /NDF: 543257.8/30

All: 86.273+/-0.011  $\chi^2$ /NDF: 1189234.3/61

- sign 85.914+/-0.015  $\chi^2$ /NDF: 644830.1/30

# asym\_sam7\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -466.326+/-109.651  $\chi^2/\text{NDF}$ : 32.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

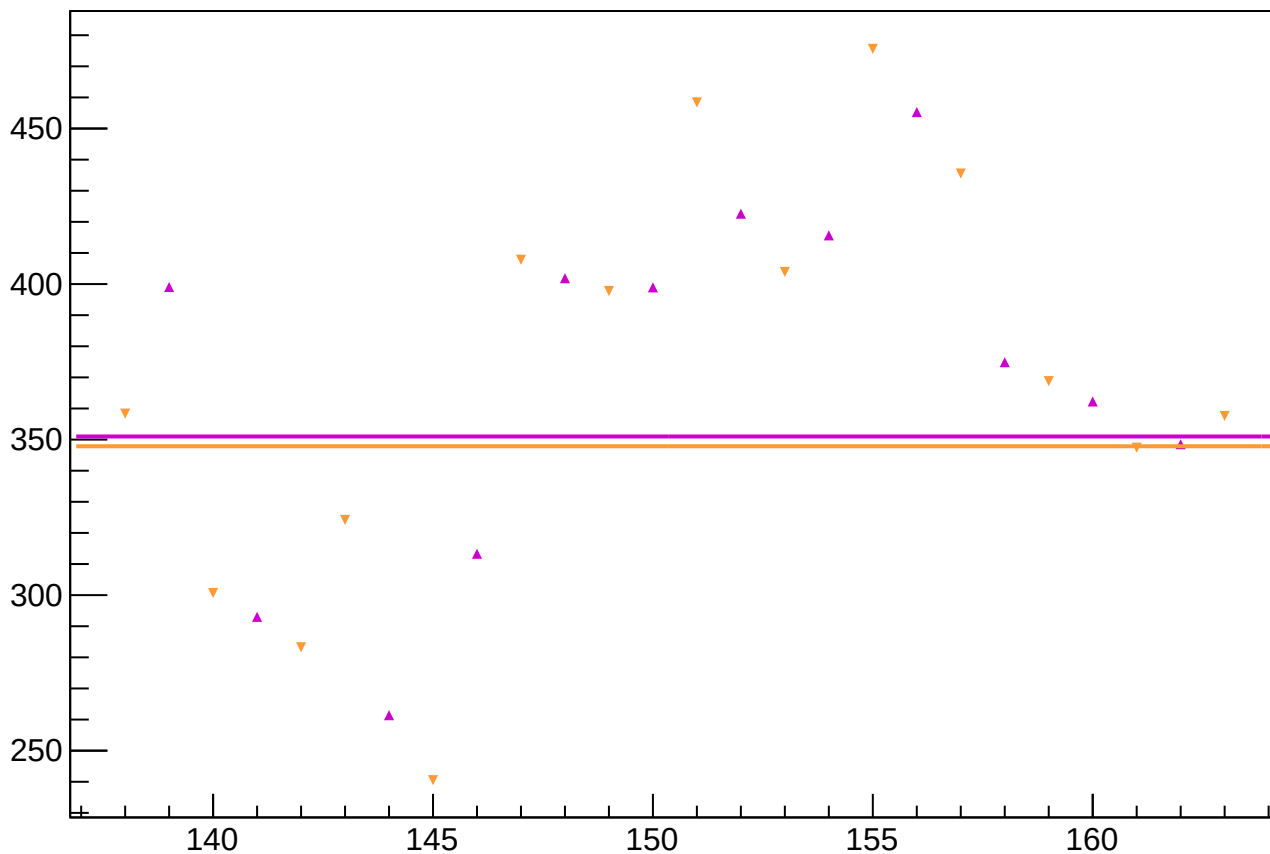
Left In: 13.958+/-113.732  $\chi^2/\text{NDF}$ : 13.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -234.956+/-78.938  $\chi^2/\text{NDF}$ : 54.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam7\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 347.857+/-0.078  $\chi^2/\text{NDF}$ : 741681.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 351.003+/-0.080  $\chi^2/\text{NDF}$ : 539370.9/11

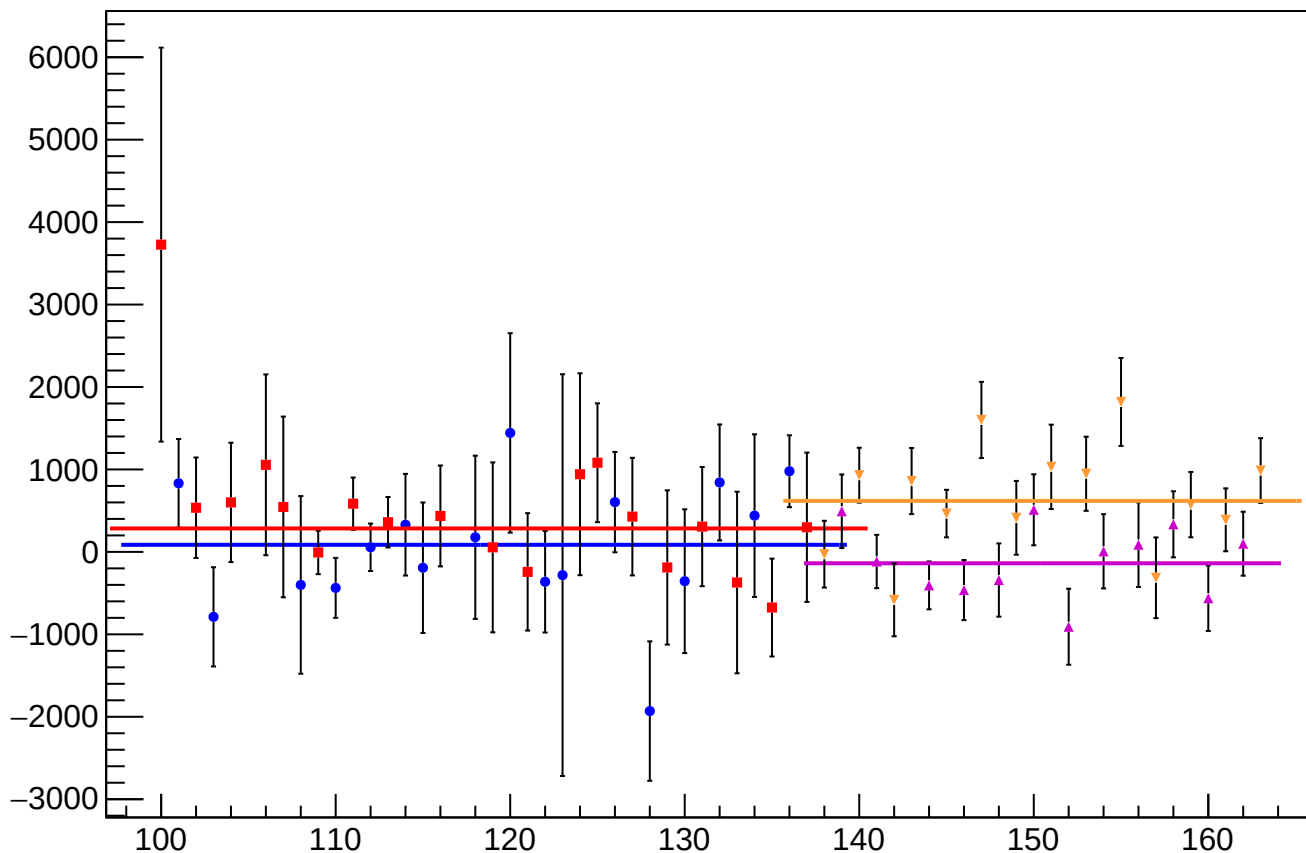
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 349.373+/-0.056  $\chi^2/\text{NDF}$ : 1281844.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam7\_mean vs Slug



Right In: 85.810 $\pm$ 142.601  $\chi^2$ /NDF: 20.6/16

Left Out: 618.670 $\pm$ 108.865  $\chi^2$ /NDF: 27.3/13

Right Out: 284.456 $\pm$ 129.599  $\chi^2$ /NDF: 10.6/18

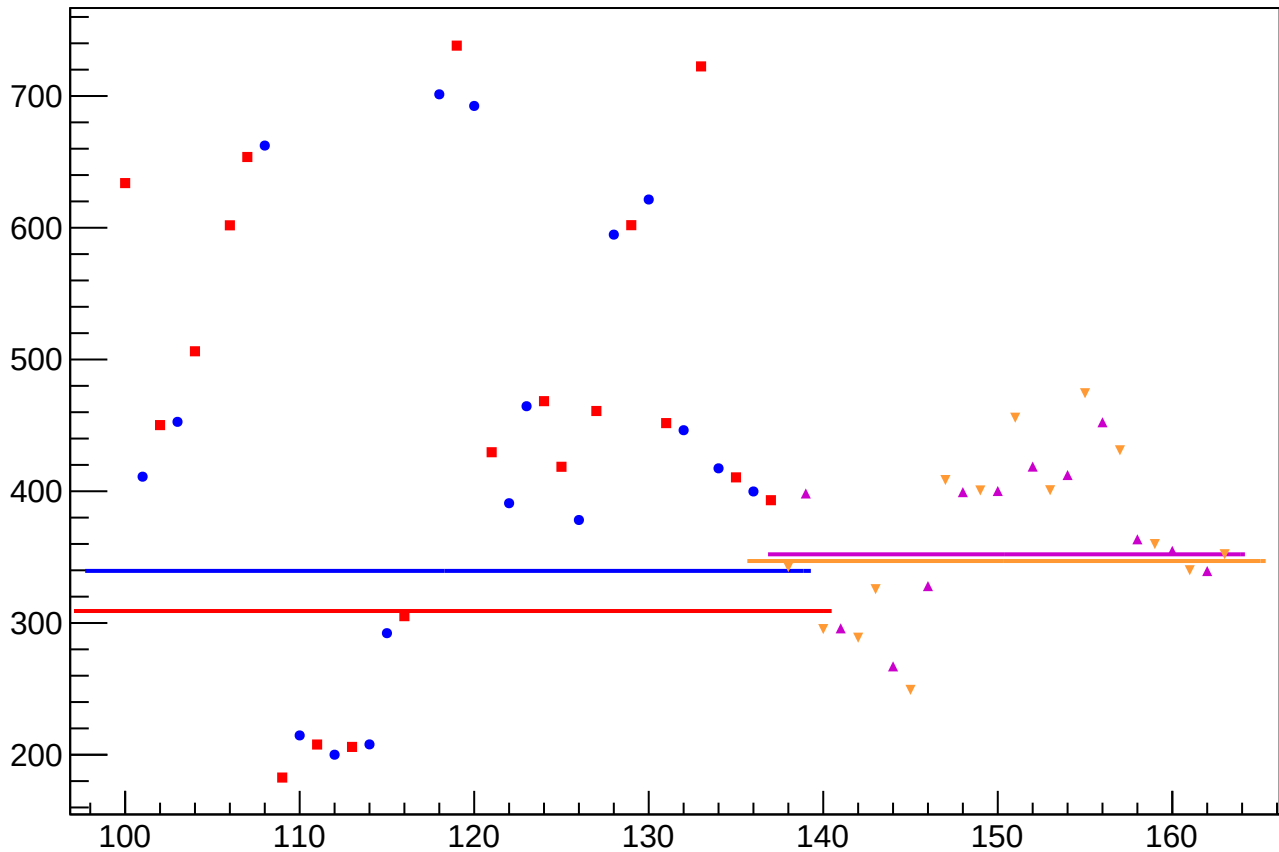
Left In: -137.975 $\pm$ 113.936  $\chi^2$ /NDF: 12.1/11

+ sign 422.463 $\pm$ 86.531  $\chi^2$ /NDF: 56.7/30

All: 232.221 $\pm$ 60.844  $\chi^2$ /NDF: 95.0/61

- sign 46.183 $\pm$ 85.570  $\chi^2$ /NDF: 28.7/30

# asym\_sam7\_rms vs Slug



Right In: 339.553+/-0.101  $\chi^2/\text{NDF}$ : 2042244.1/16

Left Out: 347.047+/-0.077  $\chi^2/\text{NDF}$ : 678097.3/13

Right Out: 309.105+/-0.092  $\chi^2/\text{NDF}$ : 2730308.7/18

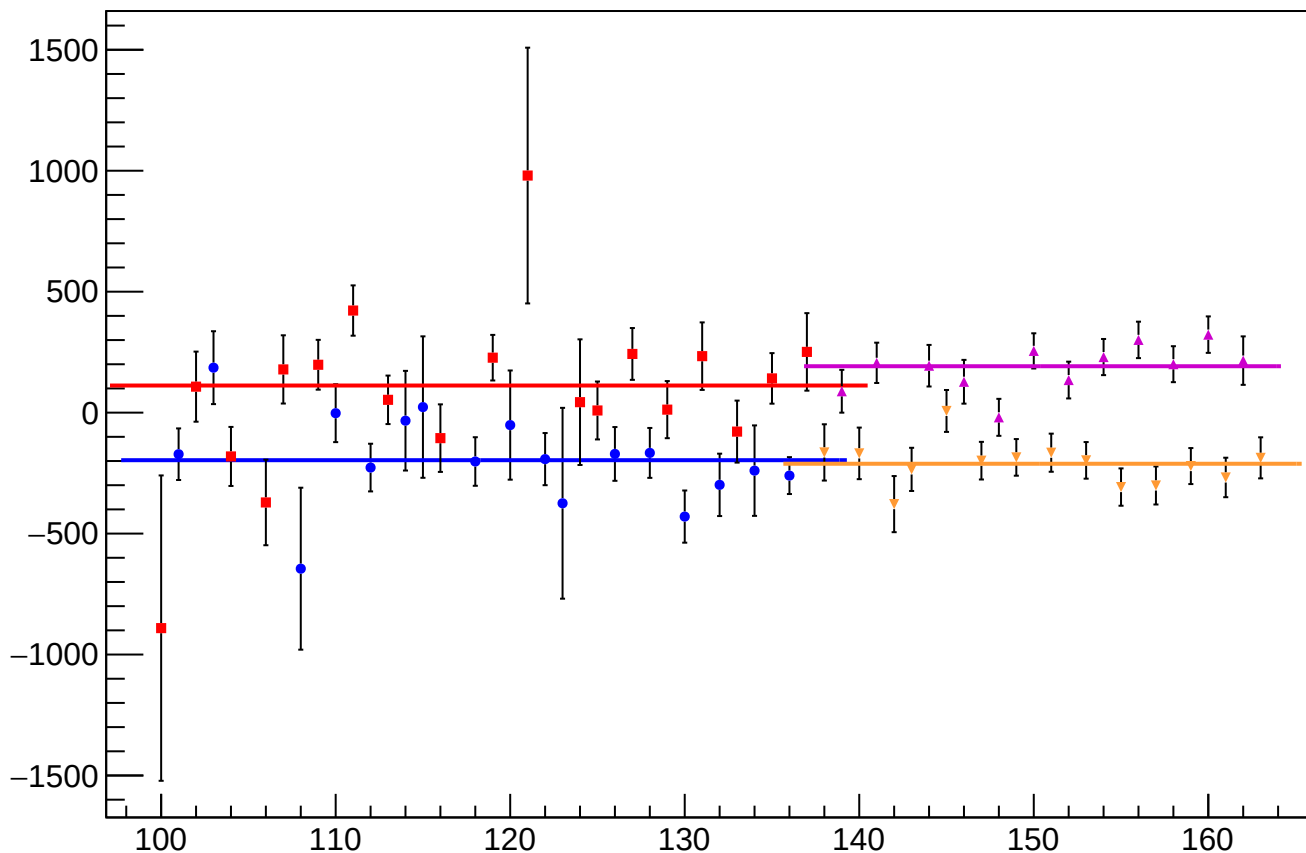
Left In: 352.135+/-0.081  $\chi^2/\text{NDF}$ : 466812.0/11

+ sign 344.287+/-0.061  $\chi^2/\text{NDF}$ : 2723831.4/30

All: 338.771+/-0.043  $\chi^2/\text{NDF}$ : 6061391.3/61

- sign 333.376+/-0.061  $\chi^2/\text{NDF}$ : 3321481.8/30

# dit\_asym\_sam8\_mean vs Slug



Right In:  $-196.599 \pm 30.399$   $\chi^2/\text{NDF}$ : 19.0/16

Left Out:  $-211.331 \pm 22.534$   $\chi^2/\text{NDF}$ : 12.8/13

Right Out:  $112.097 \pm 29.622$   $\chi^2/\text{NDF}$ : 39.3/18

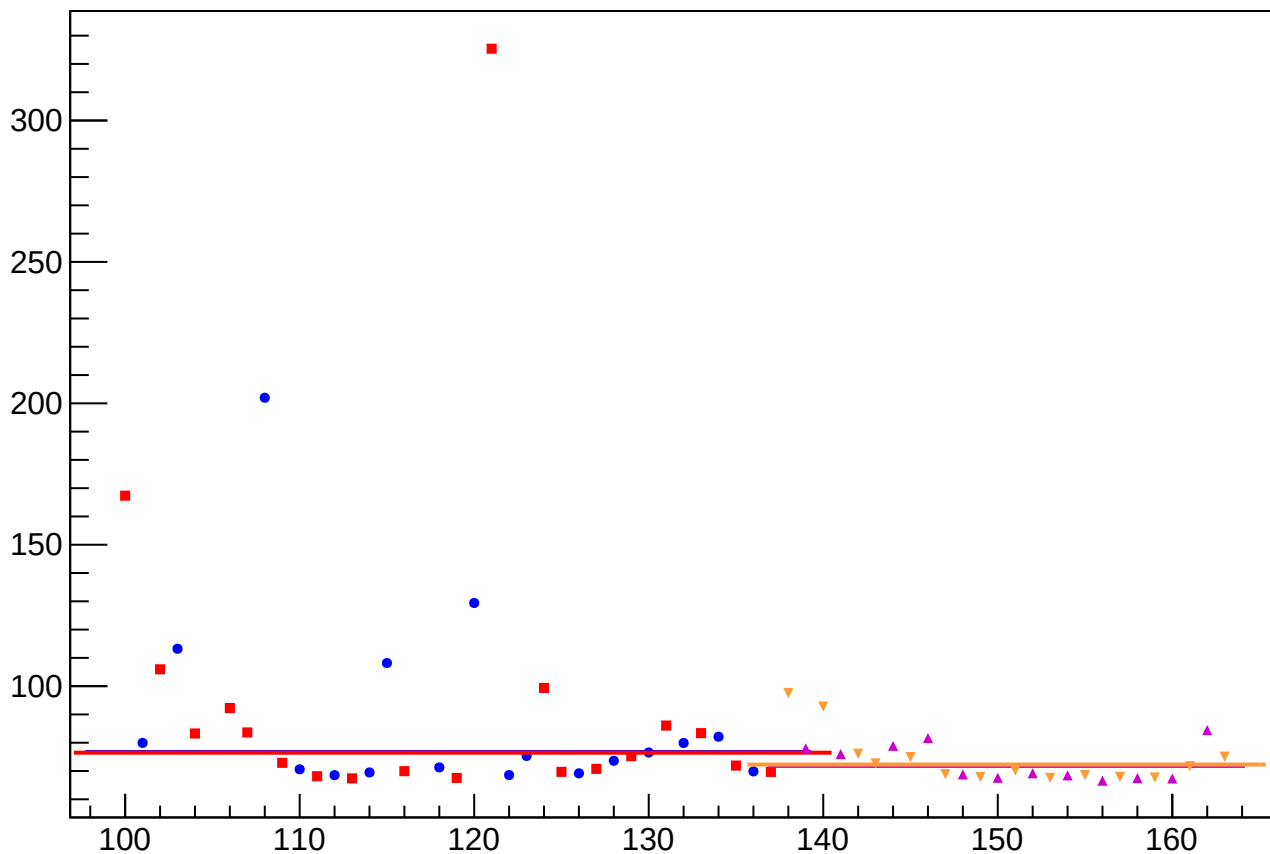
Left In:  $191.846 \pm 23.095$   $\chi^2/\text{NDF}$ : 16.3/11

+ sign  $-206.107 \pm 18.103$   $\chi^2/\text{NDF}$ : 32.0/30

All:  $-23.326 \pm 12.840$   $\chi^2/\text{NDF}$ : 297.2/61

- sign  $161.696 \pm 18.214$   $\chi^2/\text{NDF}$ : 60.1/30

# dit\_asym\_sam8\_rms vs Slug



Right In: 76.692 $\pm$ 0.021  $\chi^2$ /NDF: 600348.1/16

Left Out: 72.283 $\pm$ 0.016  $\chi^2$ /NDF: 212980.9/13

Right Out: 76.479 $\pm$ 0.021  $\chi^2$ /NDF: 699361.8/18

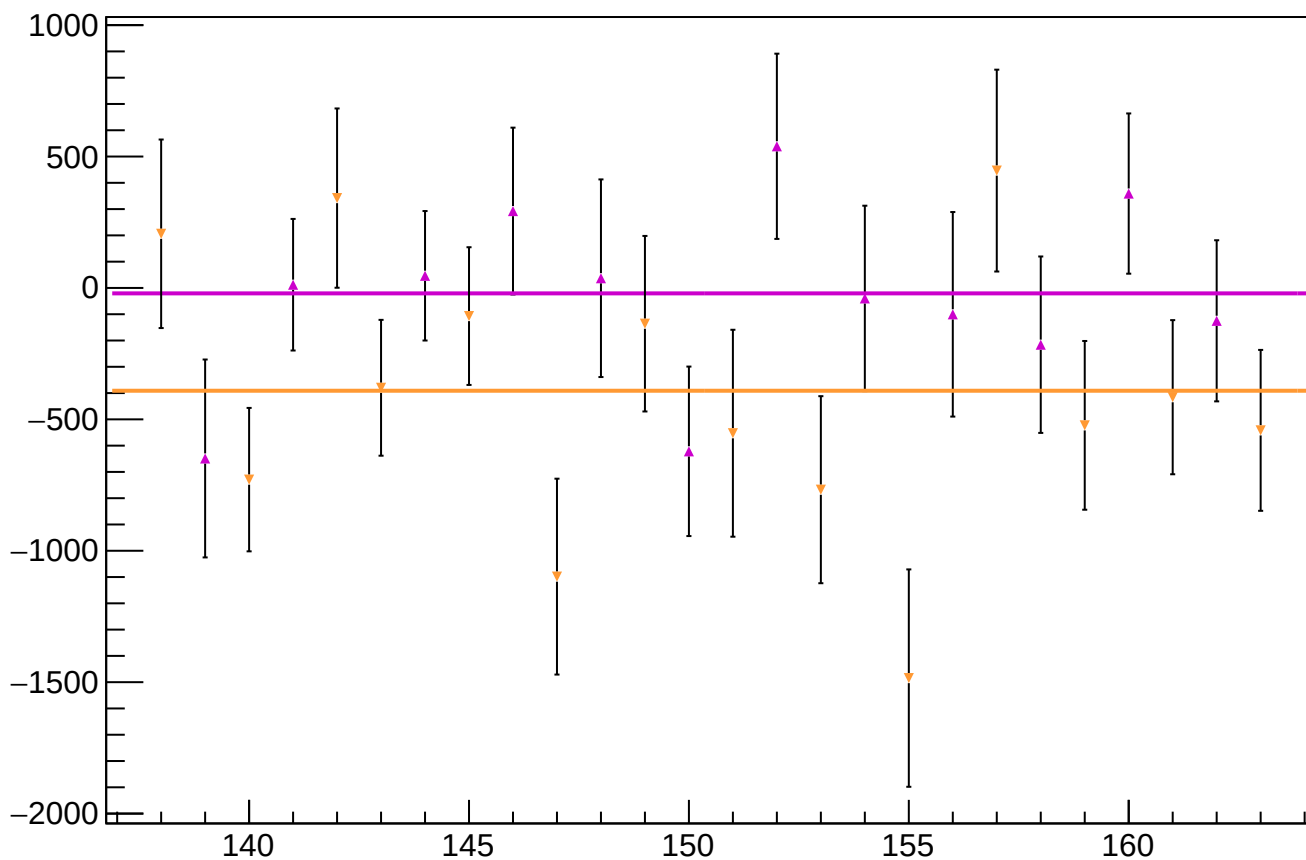
Left In: 71.805 $\pm$ 0.016  $\chi^2$ /NDF: 123750.6/11

+ sign 73.847 $\pm$ 0.013  $\chi^2$ /NDF: 840483.8/30

All: 73.710 $\pm$ 0.009  $\chi^2$ /NDF: 1694791.0/61

- sign 73.572 $\pm$ 0.013  $\chi^2$ /NDF: 854078.8/30

# asym\_sam8\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -391.117 $\pm$ 86.228  $\chi^2$ /NDF:27.7/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

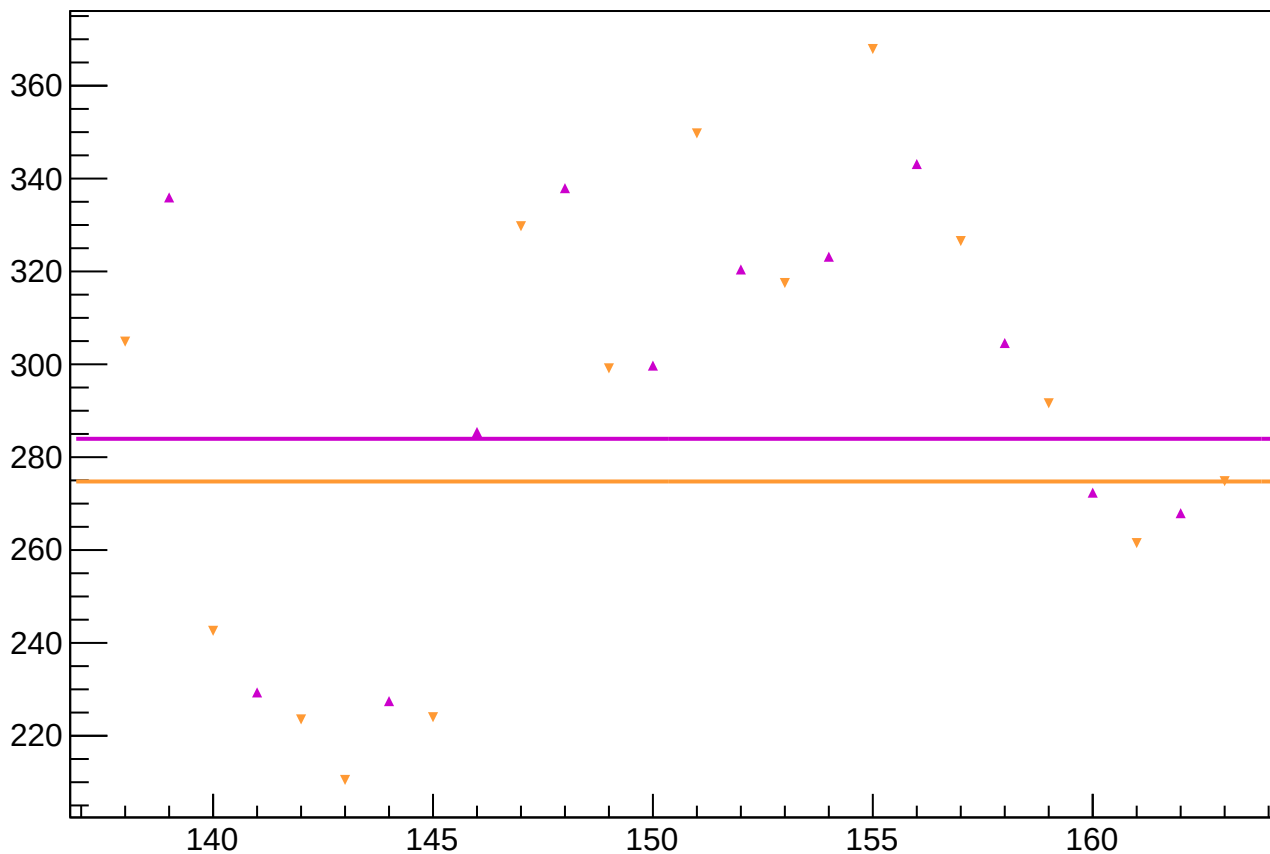
Left In: -20.650 $\pm$ 91.636  $\chi^2$ /NDF:11.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -217.139 $\pm$ 62.797  $\chi^2$ /NDF: 48.3/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam8\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 274.767+/-0.061  $\chi^2/\text{NDF}$ : 588768.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

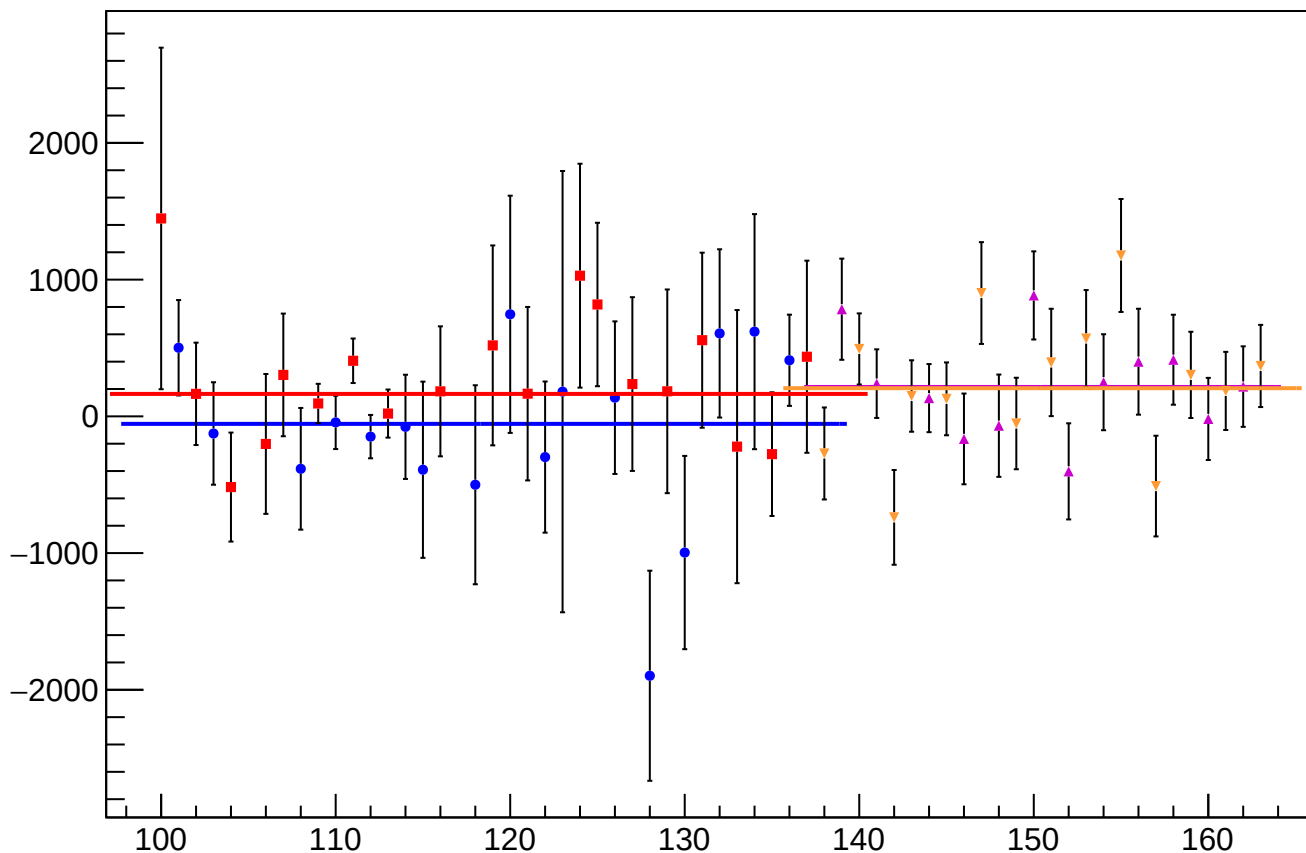
Left In: 283.957+/-0.065  $\chi^2/\text{NDF}$ : 392862.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 279.082+/-0.044  $\chi^2/\text{NDF}$ : 992299.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam8\_mean vs Slug



Right In:  $-54.933 \pm 90.355$   $\chi^2/\text{NDF}: 16.5/16$

Left Out:  $205.877 \pm 85.161$   $\chi^2/\text{NDF}: 25.9/13$

Right Out:  $164.141 \pm 76.903$   $\chi^2/\text{NDF}: 11.9/18$

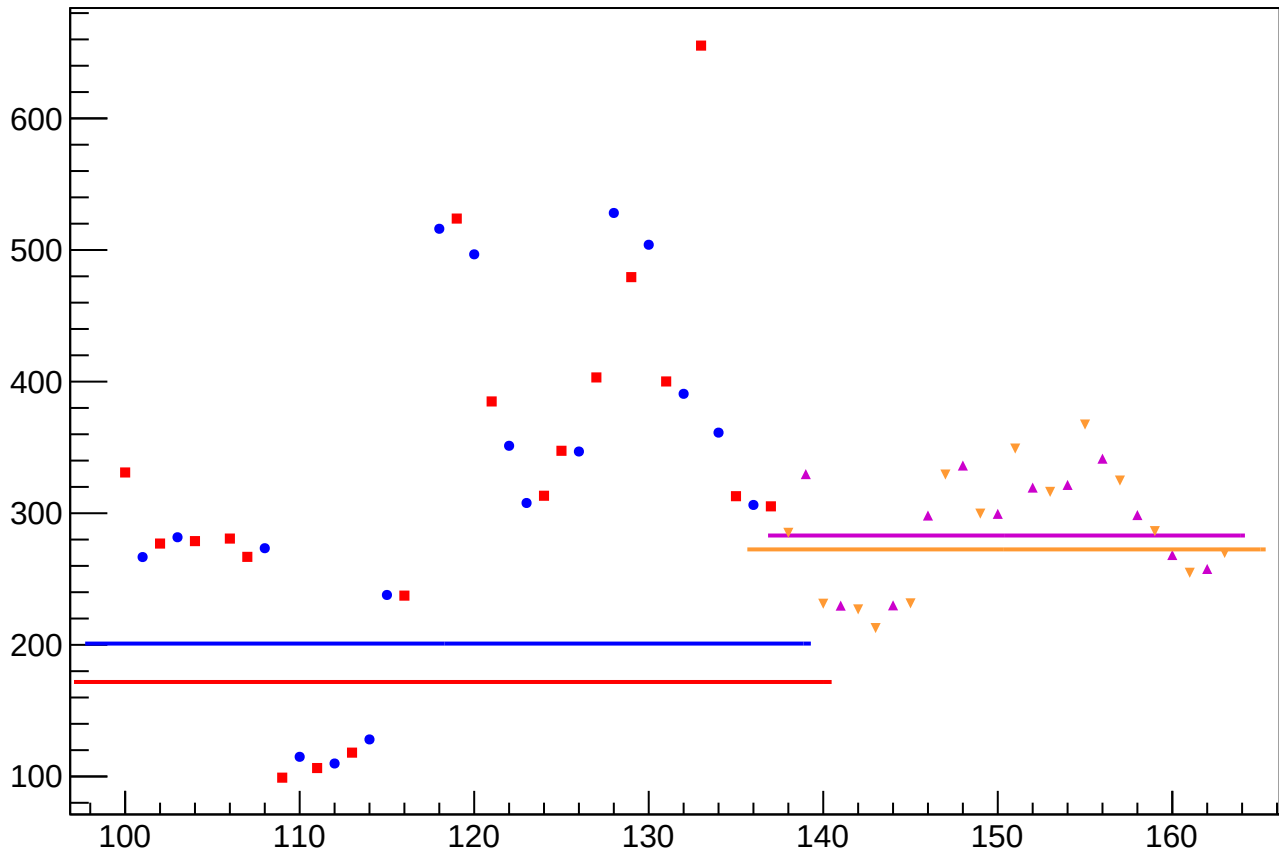
Left In:  $214.893 \pm 91.333$   $\chi^2/\text{NDF}: 13.0/11$

+ sign  $83.183 \pm 61.973$   $\chi^2/\text{NDF}: 46.8/30$

All:  $136.845 \pm 42.666$   $\chi^2/\text{NDF}: 73.3/61$

- sign  $185.196 \pm 58.827$   $\chi^2/\text{NDF}: 25.0/30$

# asym\_sam8\_rms vs Slug



Right In: 200.971+/-0.064  $\chi^2/\text{NDF}$ : 3436154.0/16

Left Out: 272.522+/-0.060  $\chi^2/\text{NDF}$ : 563814.9/13

Right Out: 171.794+/-0.054  $\chi^2/\text{NDF}$ : 4092634.7/18

Left In: 283.075+/-0.065  $\chi^2/\text{NDF}$ : 377552.6/11

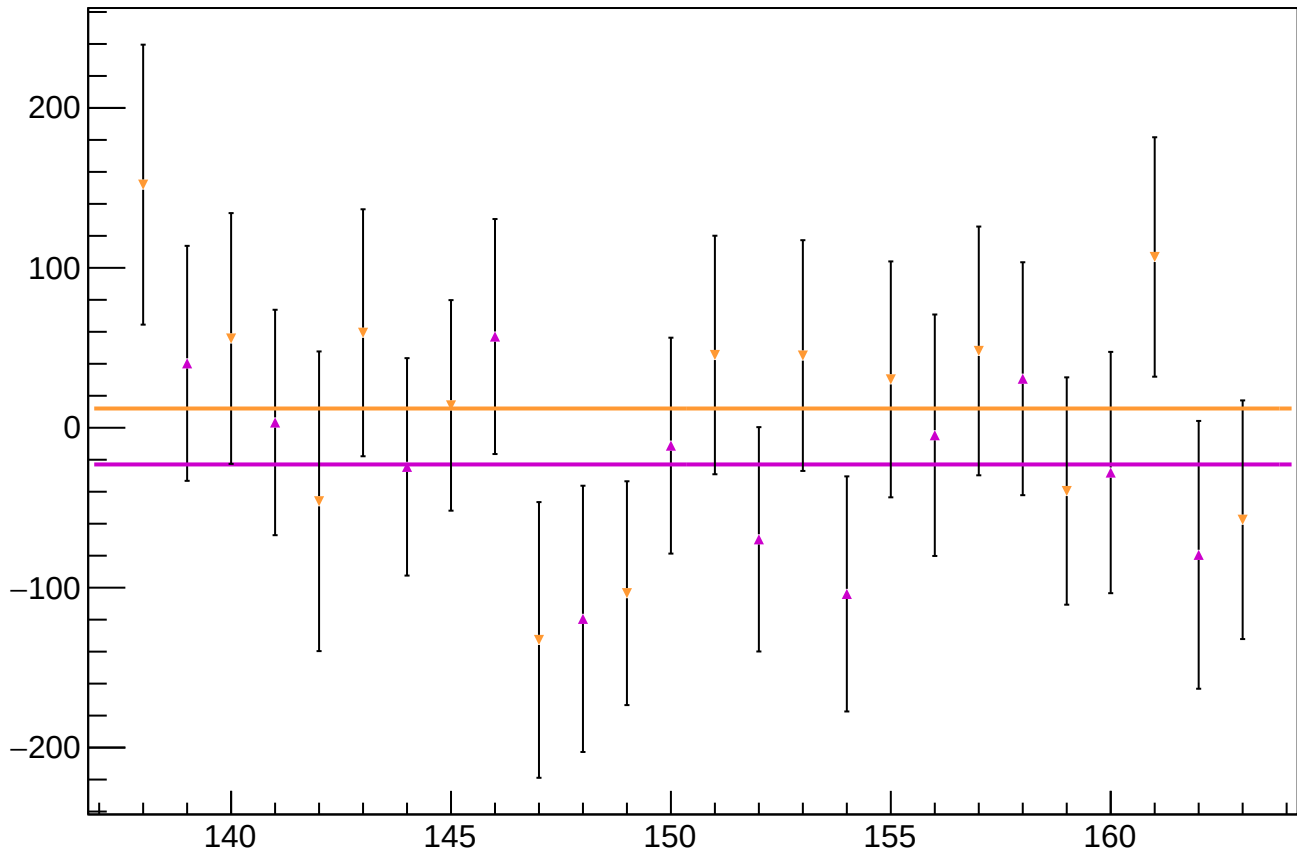
+ sign 238.862+/-0.044  $\chi^2/\text{NDF}$ : 4664133.3/30

All: 227.866+/-0.030  $\chi^2/\text{NDF}$ : 10991332.5/63

- sign 217.959+/-0.042  $\chi^2/\text{NDF}$ : 6207520.7/30



dit\_asym\_sam\_15\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 12.038 $\pm$ 20.324  $\chi^2$ /NDF:12.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

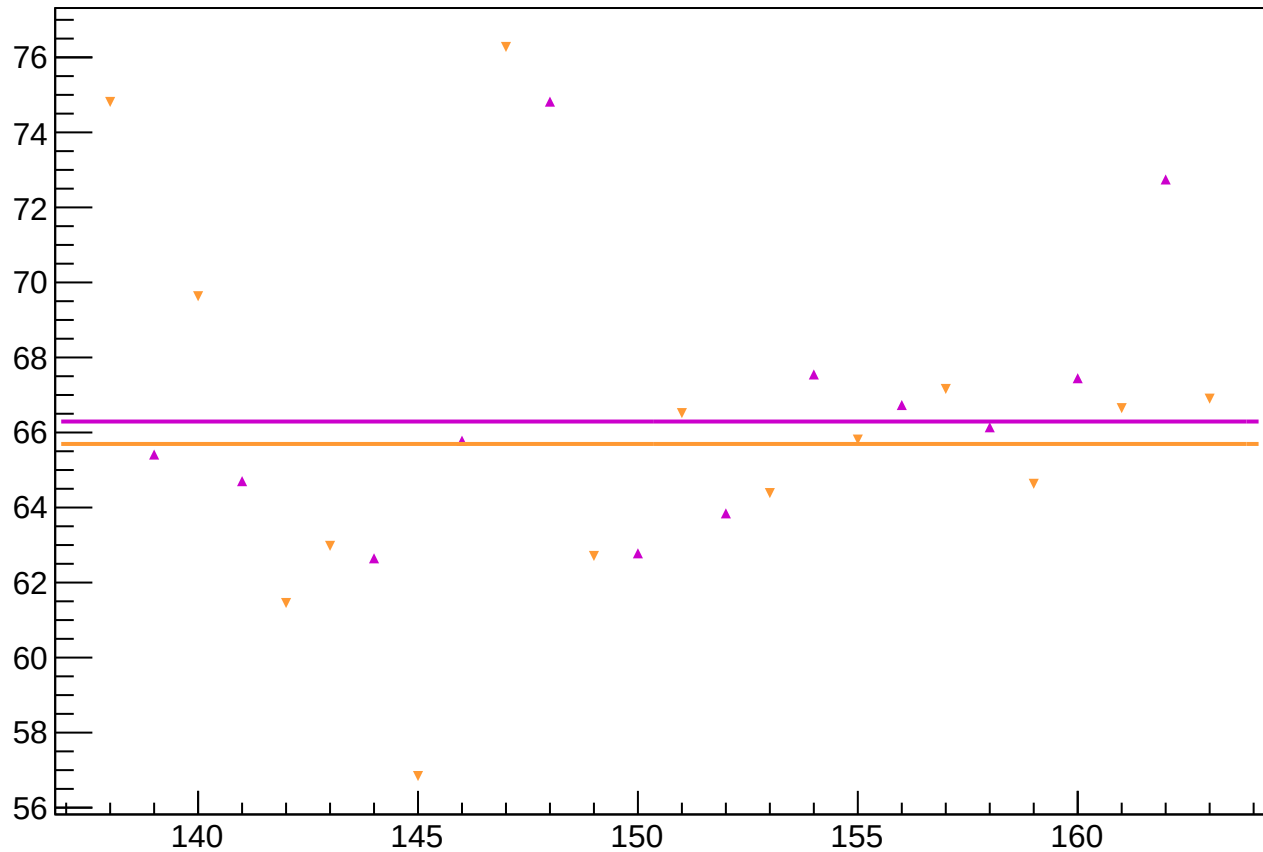
Left In: -22.947 $\pm$ 21.213  $\chi^2$ /NDF:6.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.706 $\pm$ 14.675  $\chi^2$ /NDF: 20.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 65.695+/-0.014  $\chi^2/\text{NDF}$ :106151.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

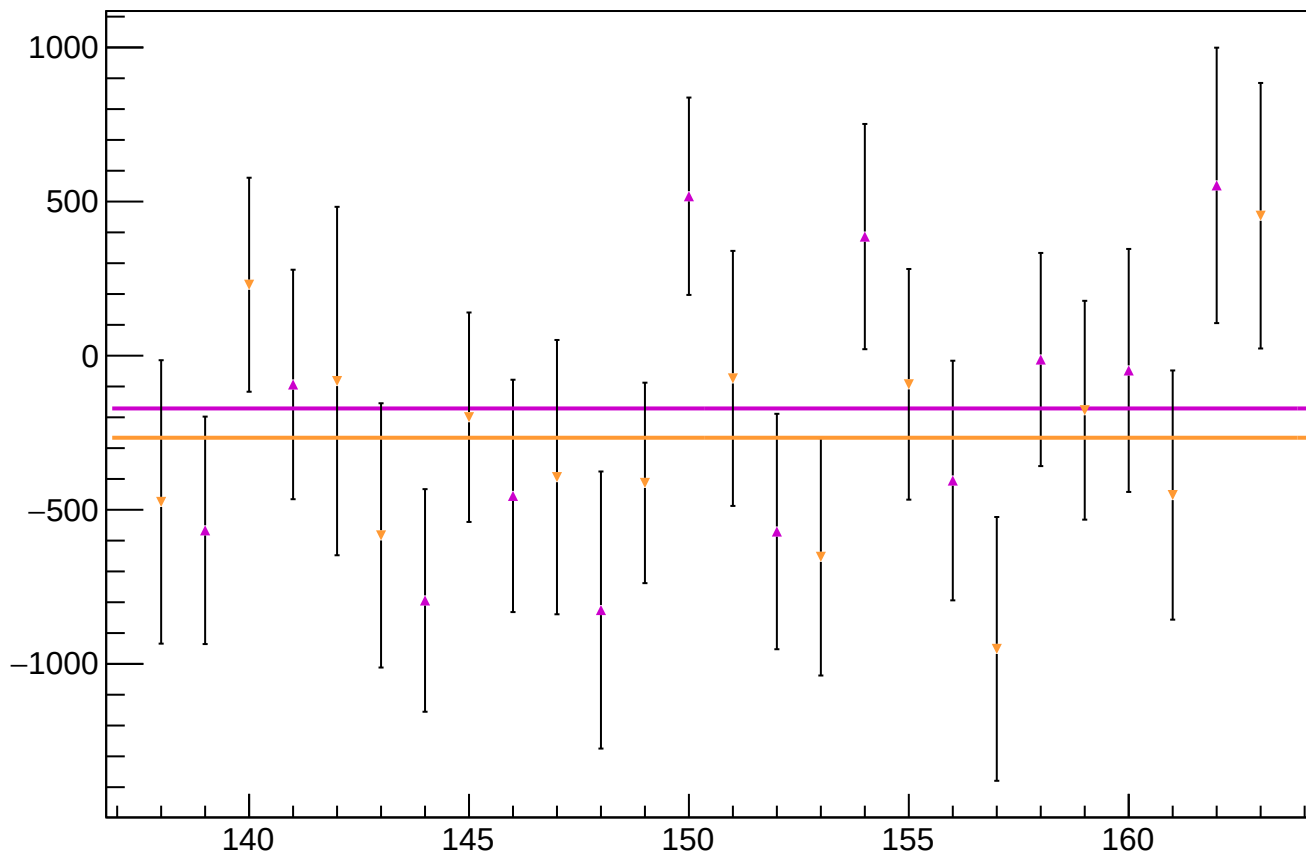
Left In: 66.292+/-0.015  $\chi^2/\text{NDF}$ :48990.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 65.981+/-0.010  $\chi^2/\text{NDF}$ : 155969.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -266.270 $\pm$ 105.765  $\chi^2$ /NDF:10.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

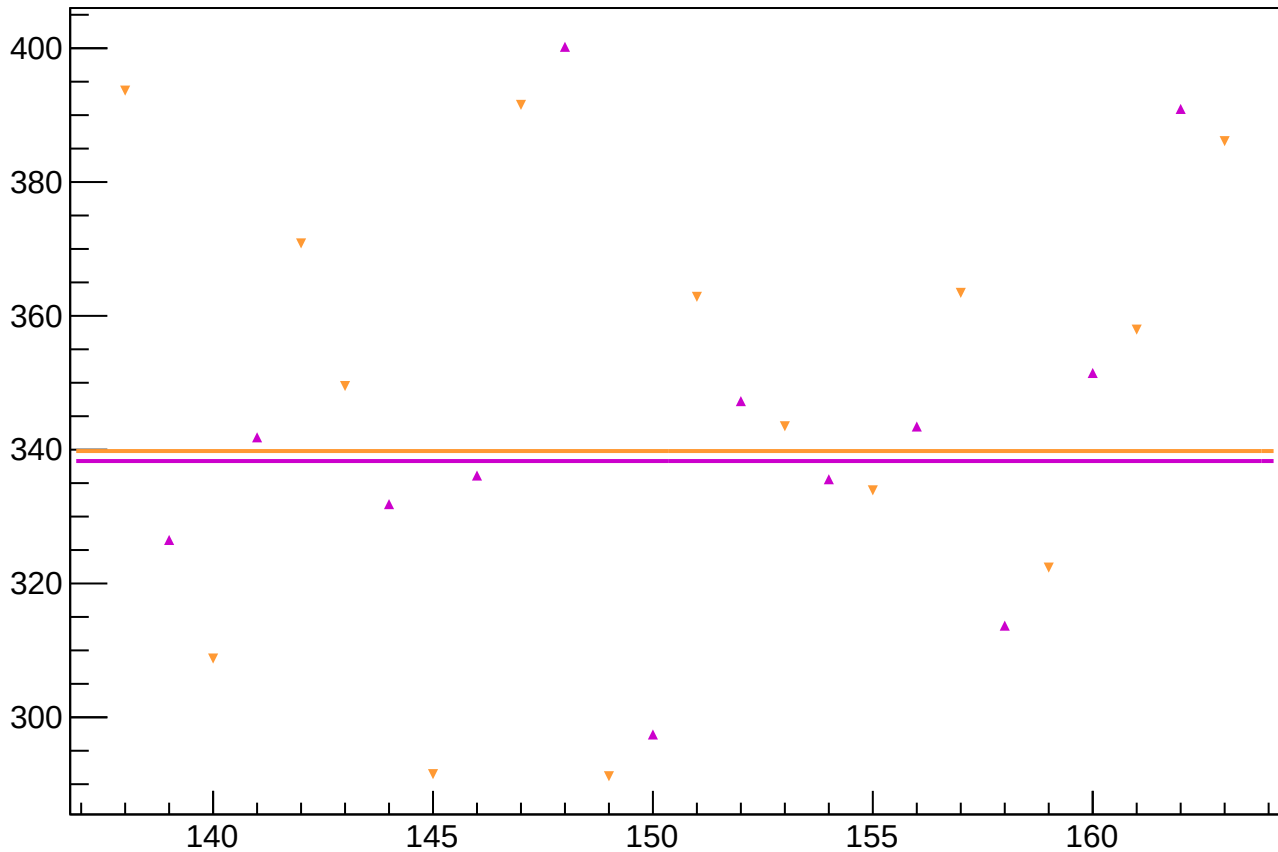
Left In: -171.243 $\pm$ 108.629  $\chi^2$ /NDF:18.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -220.025 $\pm$ 75.780  $\chi^2$ /NDF: 28.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 339.794+/-0.075  $\chi^2/\text{NDF}$ : 207541.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

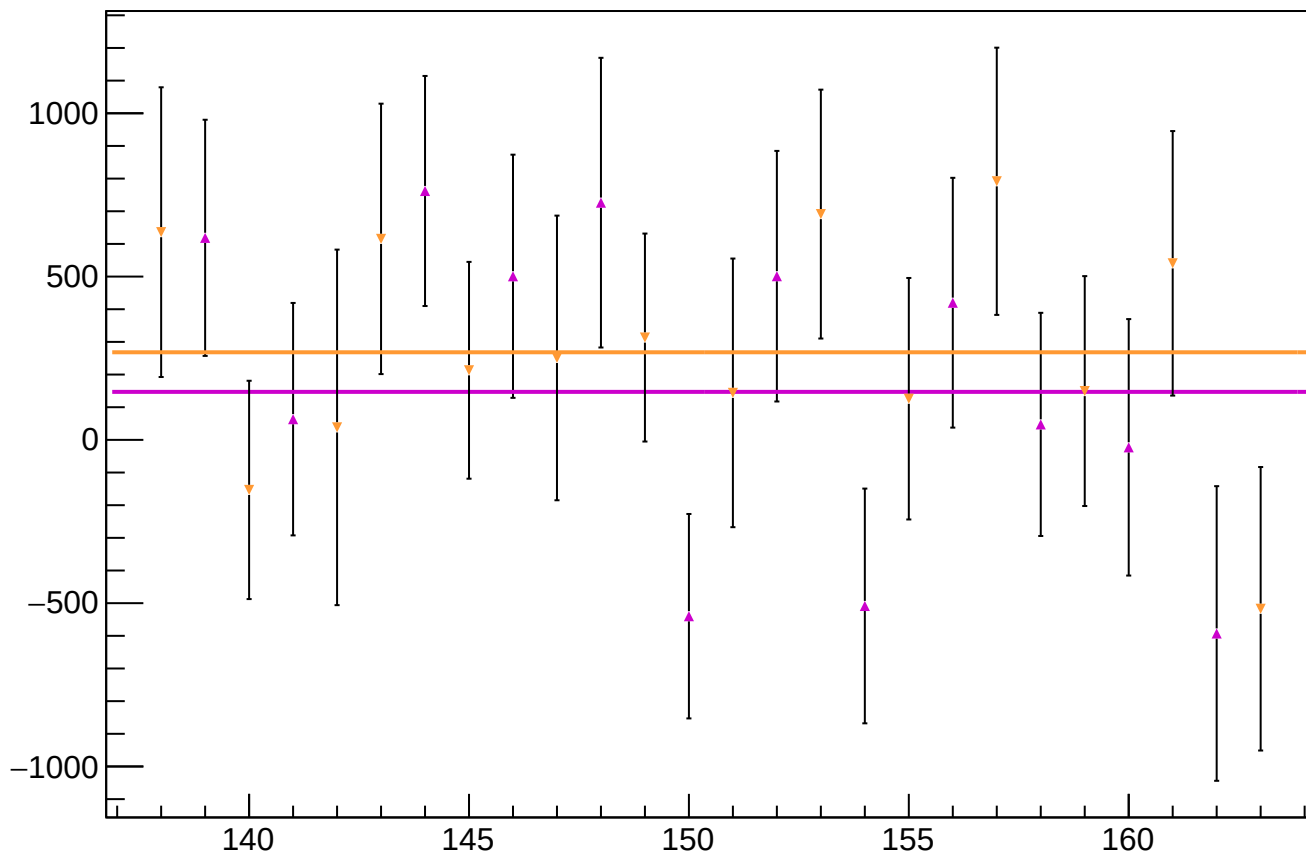
Left In: 338.300+/-0.077  $\chi^2/\text{NDF}$ : 115118.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 339.067+/-0.054  $\chi^2/\text{NDF}$ : 322853.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 268.203+/-103.684  $\chi^2/\text{NDF}$ :10.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

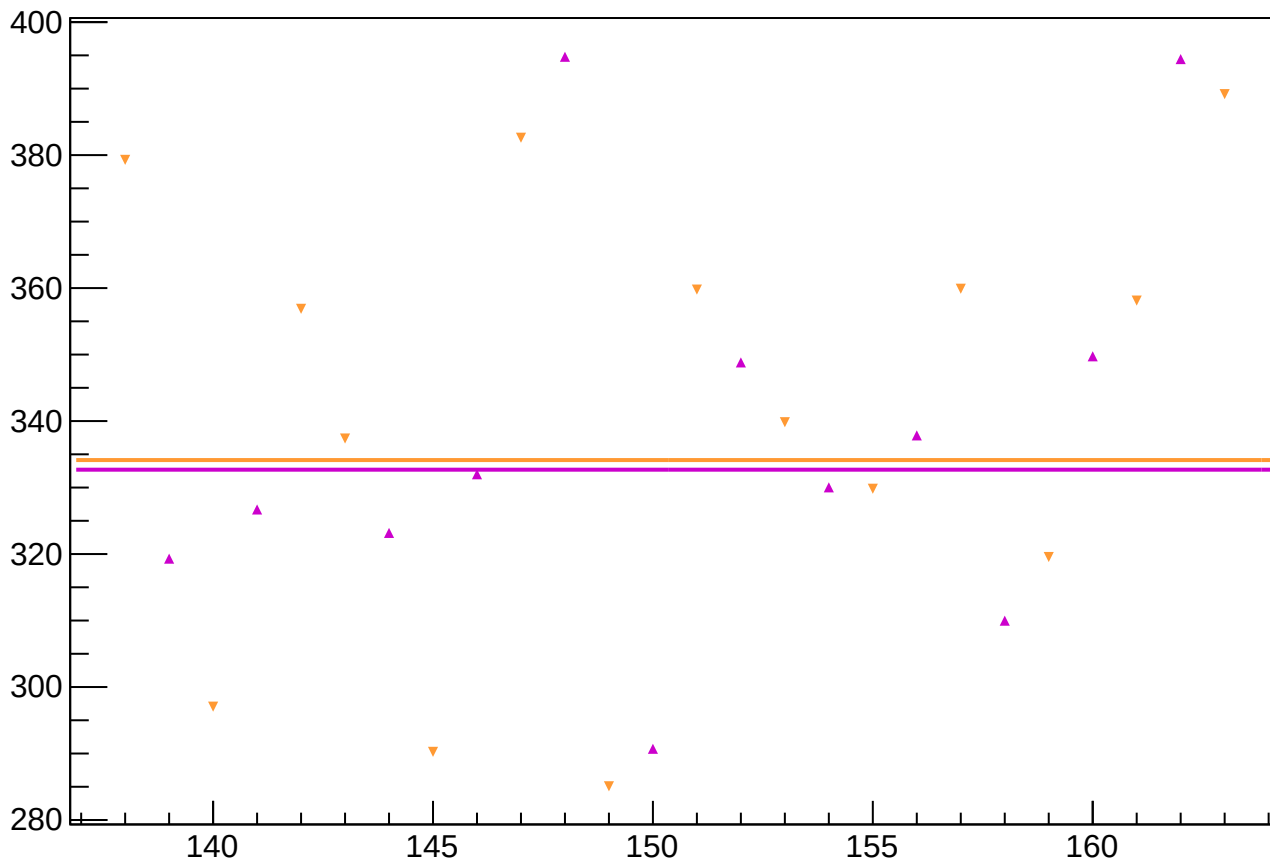
Left In: 146.986+/-106.929  $\chi^2/\text{NDF}$ :19.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 209.462+/-74.436  $\chi^2/\text{NDF}$ : 30.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 334.135+/-0.073  $\chi^2/\text{NDF}$ : 215197.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

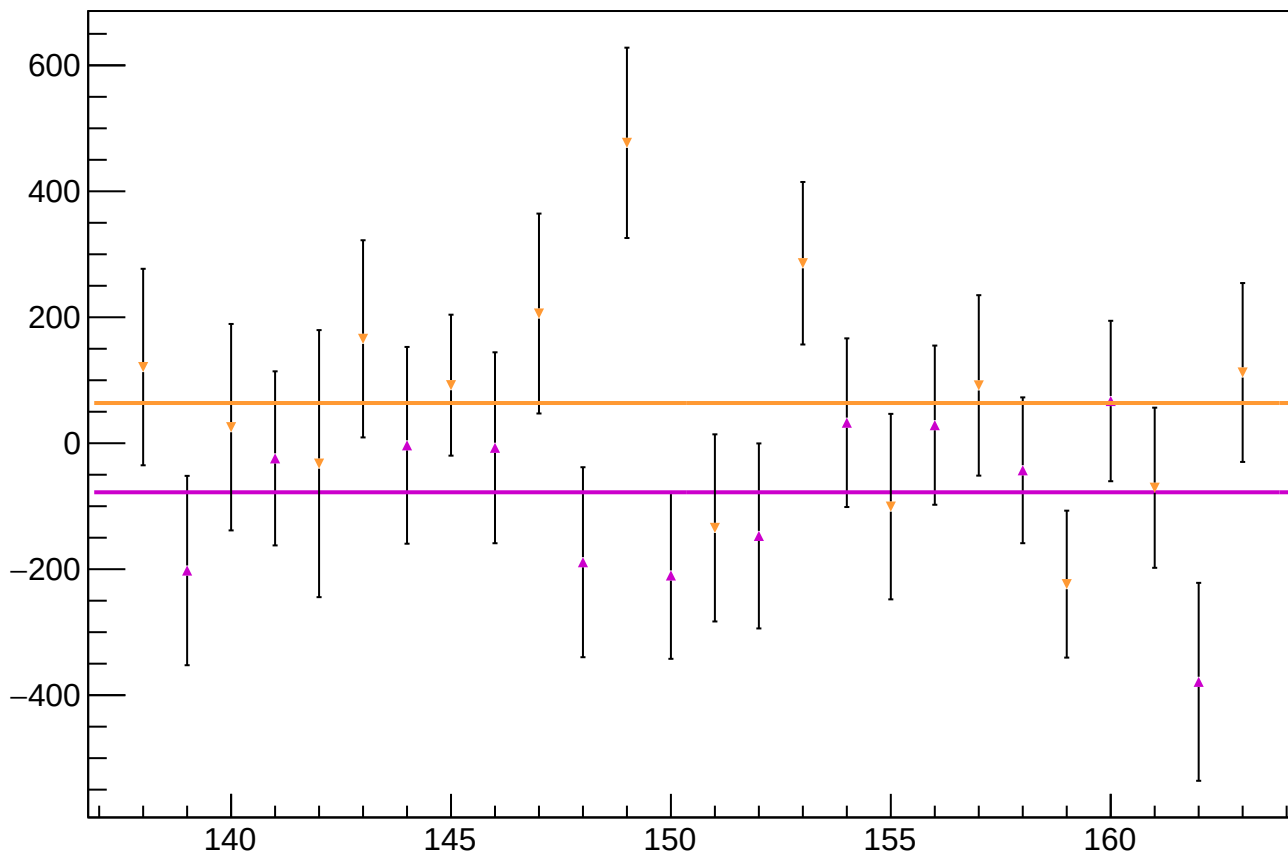
Left In: 332.688+/-0.076  $\chi^2/\text{NDF}$ : 134062.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 333.434+/-0.053  $\chi^2/\text{NDF}$ : 349448.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_26\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 63.865 $\pm$ 38.072  $\chi^2$ /NDF:22.5/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

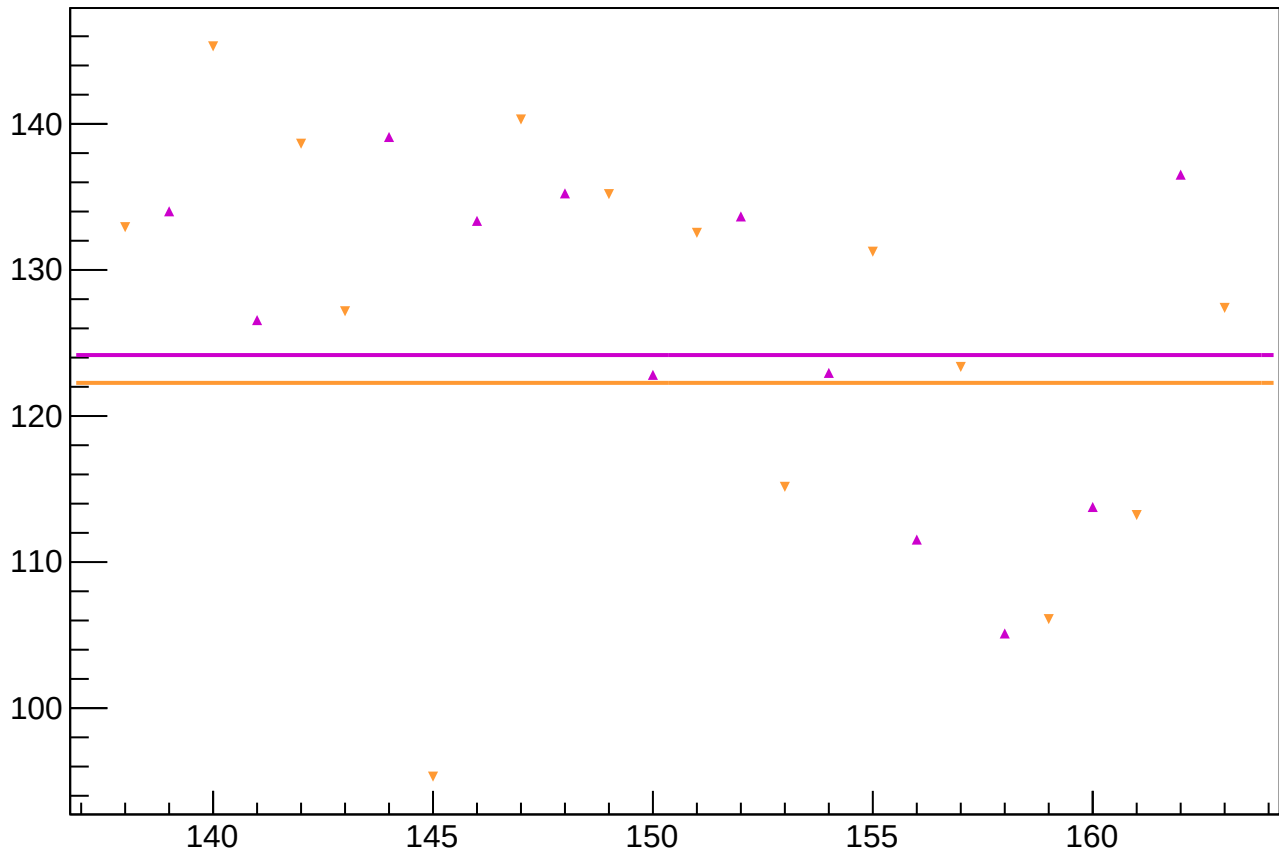
Left In: -77.867 $\pm$ 40.042  $\chi^2$ /NDF:9.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.428 $\pm$ 27.591  $\chi^2$ /NDF: 38.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_26\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 122.270+/-0.027  $\chi^2/\text{NDF}$ : 293698.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 124.174+/-0.028  $\chi^2/\text{NDF}$ : 154200.3/11

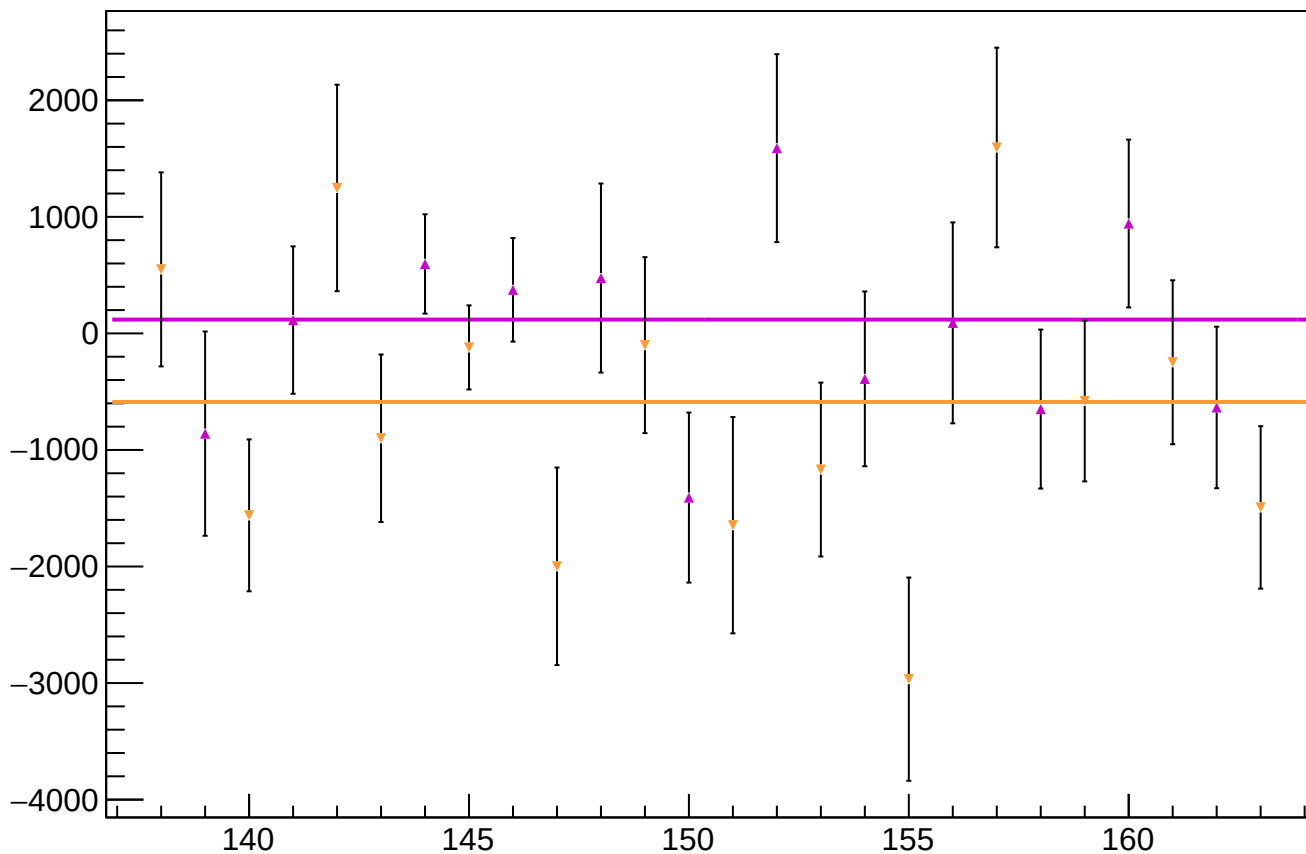
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 123.174+/-0.020  $\chi^2/\text{NDF}$ : 450273.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_26\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -588.180+/-183.631  $\chi^2/\text{NDF}$ : 31.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

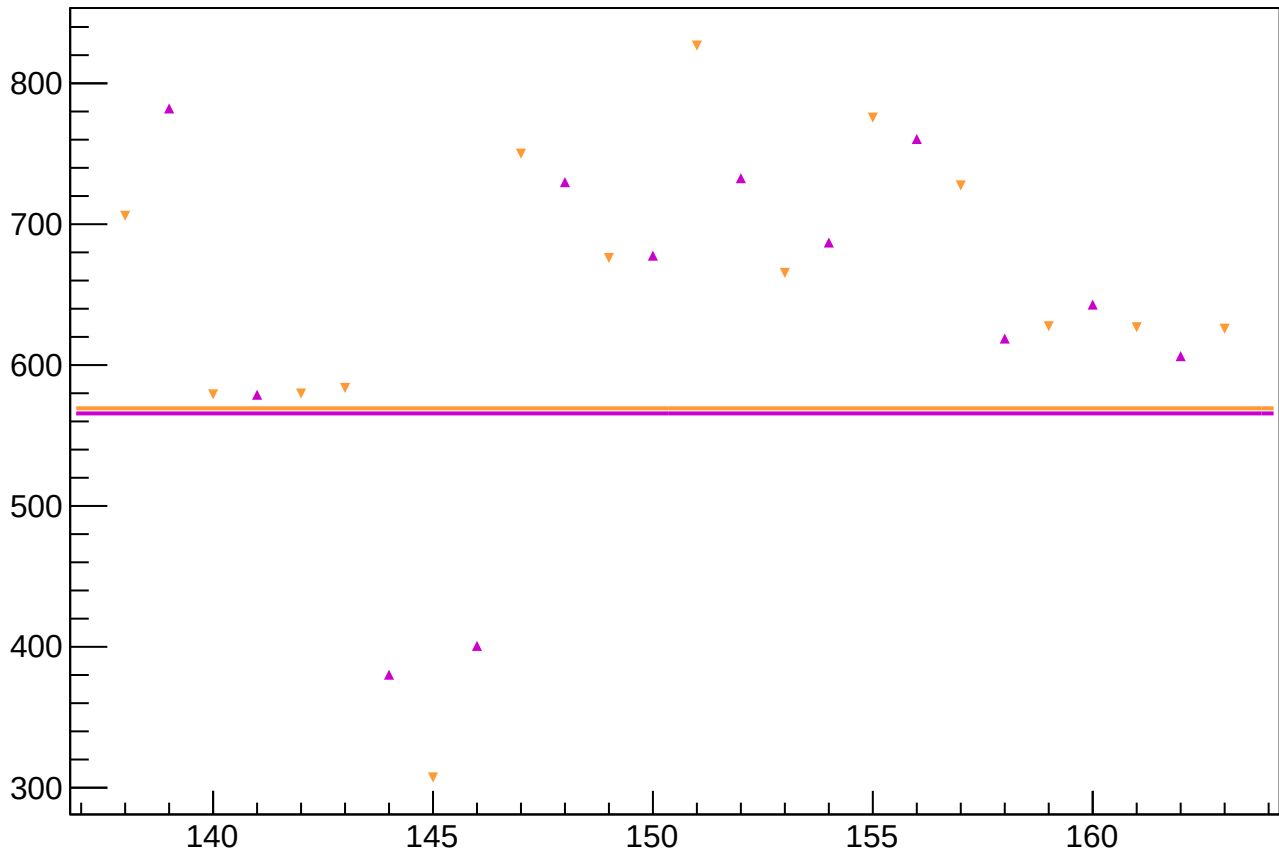
Left In: 118.536+/-186.969  $\chi^2/\text{NDF}$ : 15.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -241.186+/-131.011  $\chi^2/\text{NDF}$ : 53.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 569.332+/-0.130  $\chi^2/\text{NDF}$ :1649673.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

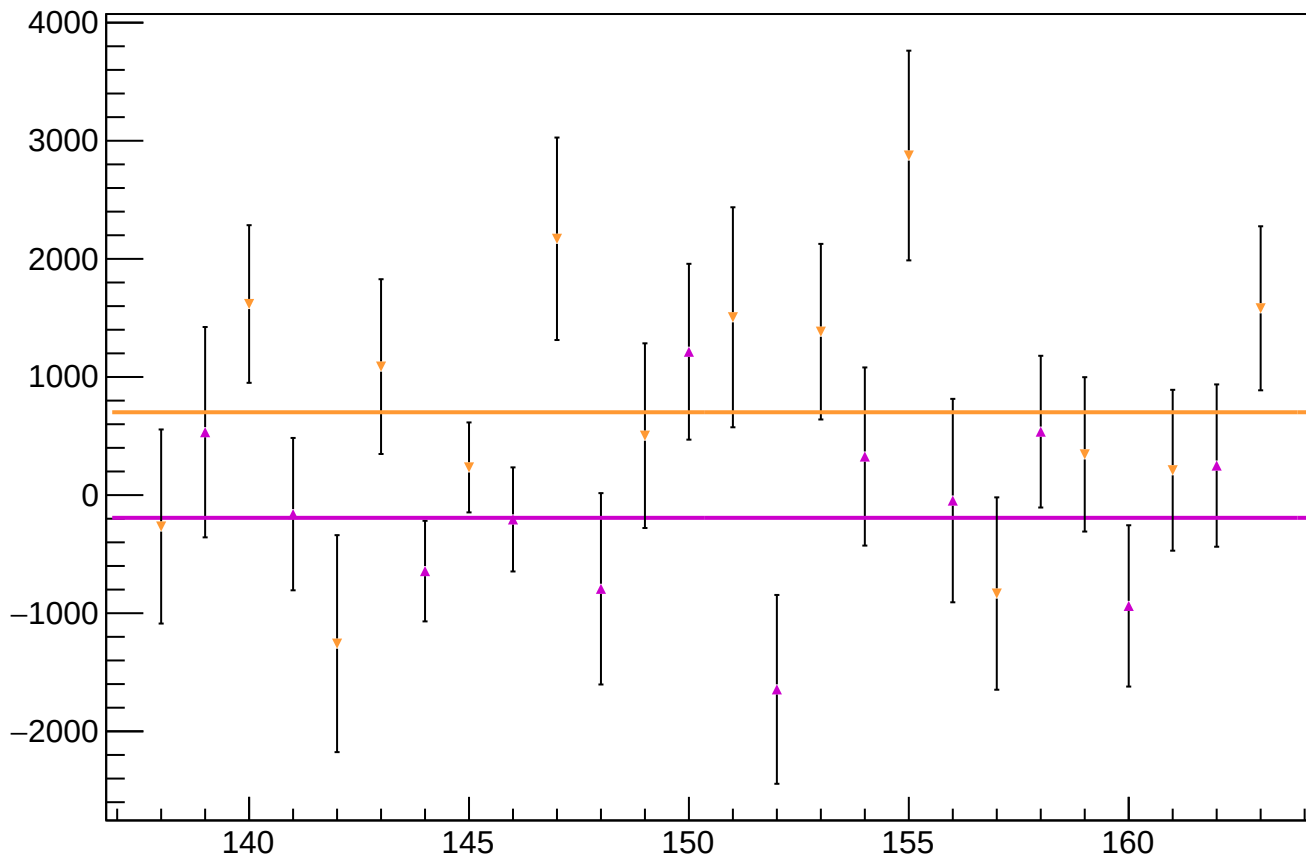
Left In: 565.689+/-0.132  $\chi^2/\text{NDF}$ :1189478.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 567.544+/-0.093  $\chi^2/\text{NDF}$ : 2839538.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 701.428+/-185.879  $\chi^2/\text{NDF}$ : 26.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

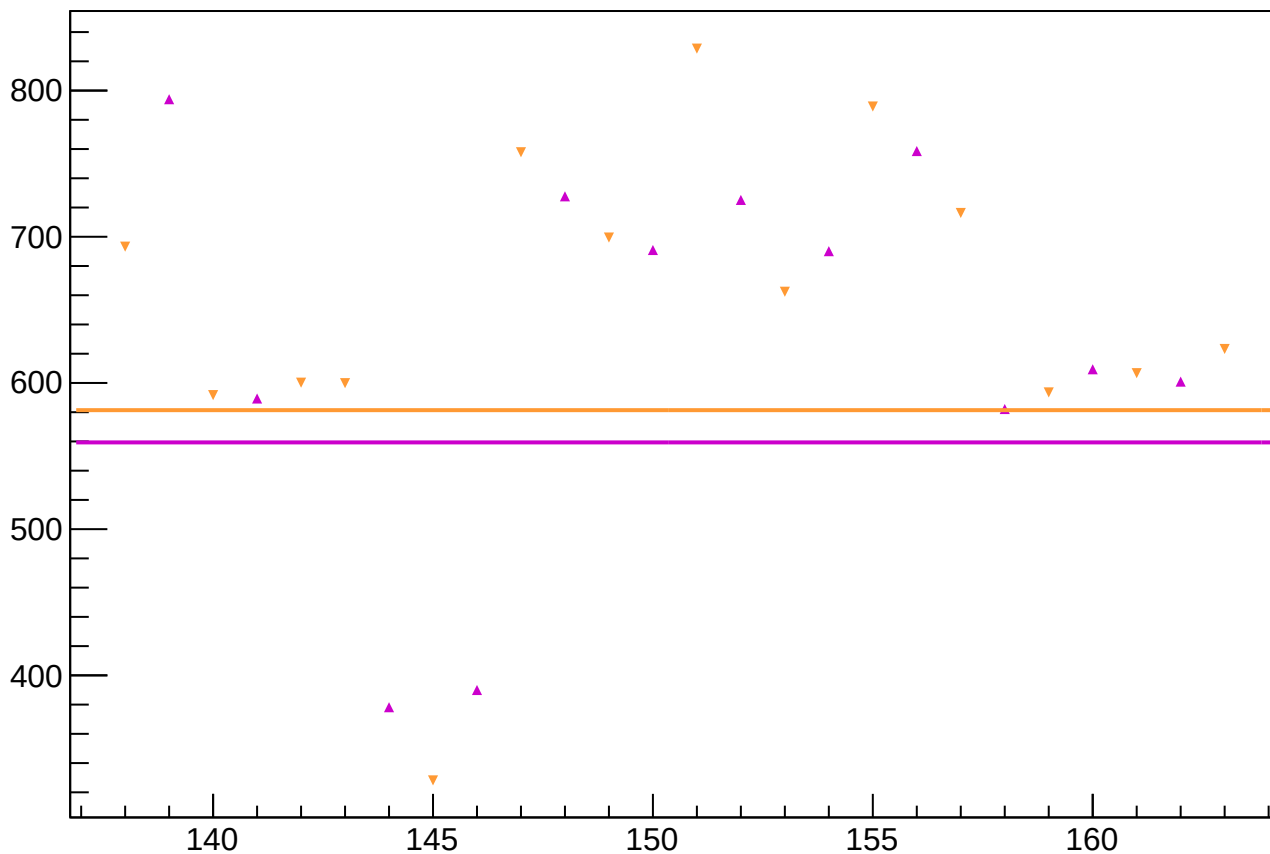
Left In: -192.495+/-185.642  $\chi^2/\text{NDF}$ : 12.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 253.898+/-131.352  $\chi^2/\text{NDF}$ : 50.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 581.394+/-0.131  $\chi^2/\text{NDF}$ :1394215.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

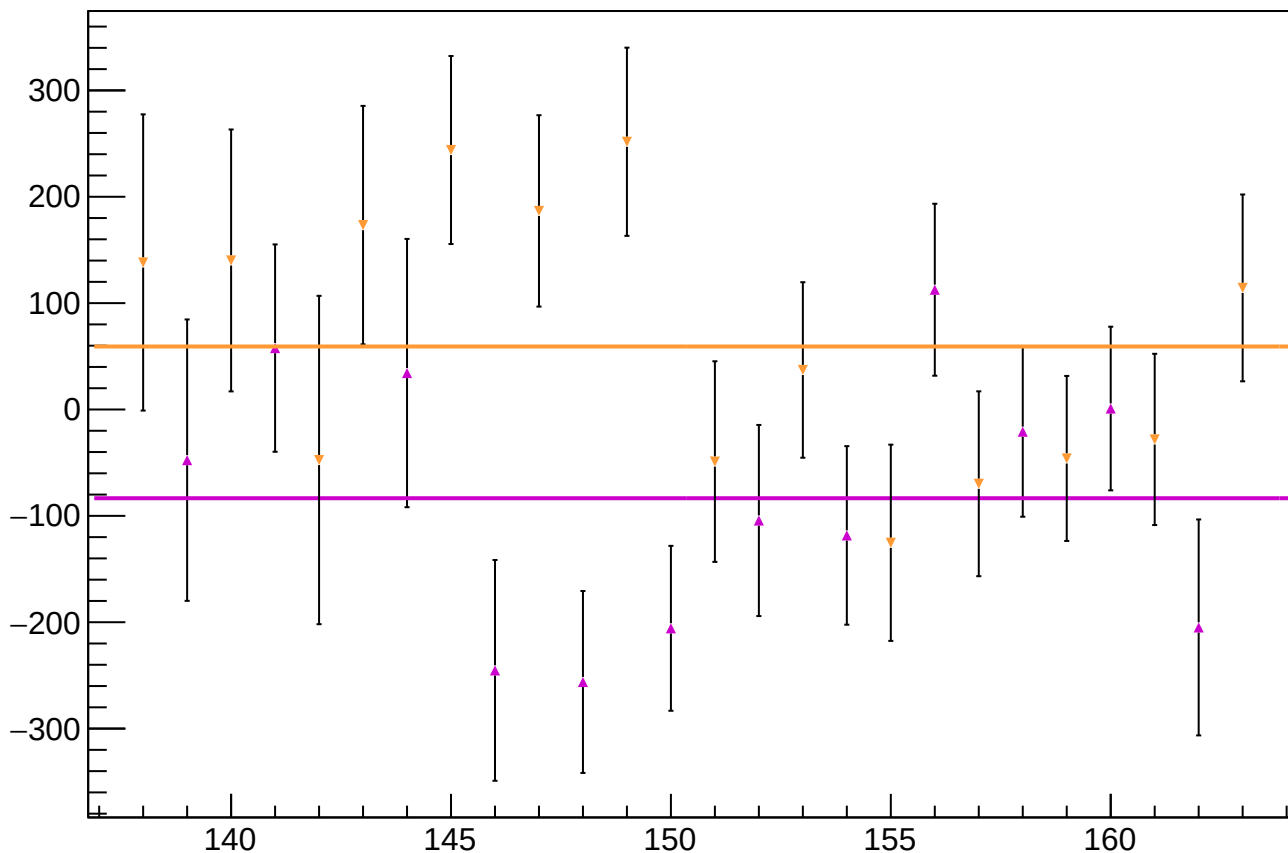
Left In: 559.338+/-0.131  $\chi^2/\text{NDF}$ :1223480.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 570.352+/-0.093  $\chi^2/\text{NDF}$ : 2631793.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_37\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 59.229 $\pm$ 25.175  $\chi^2$ /NDF:24.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

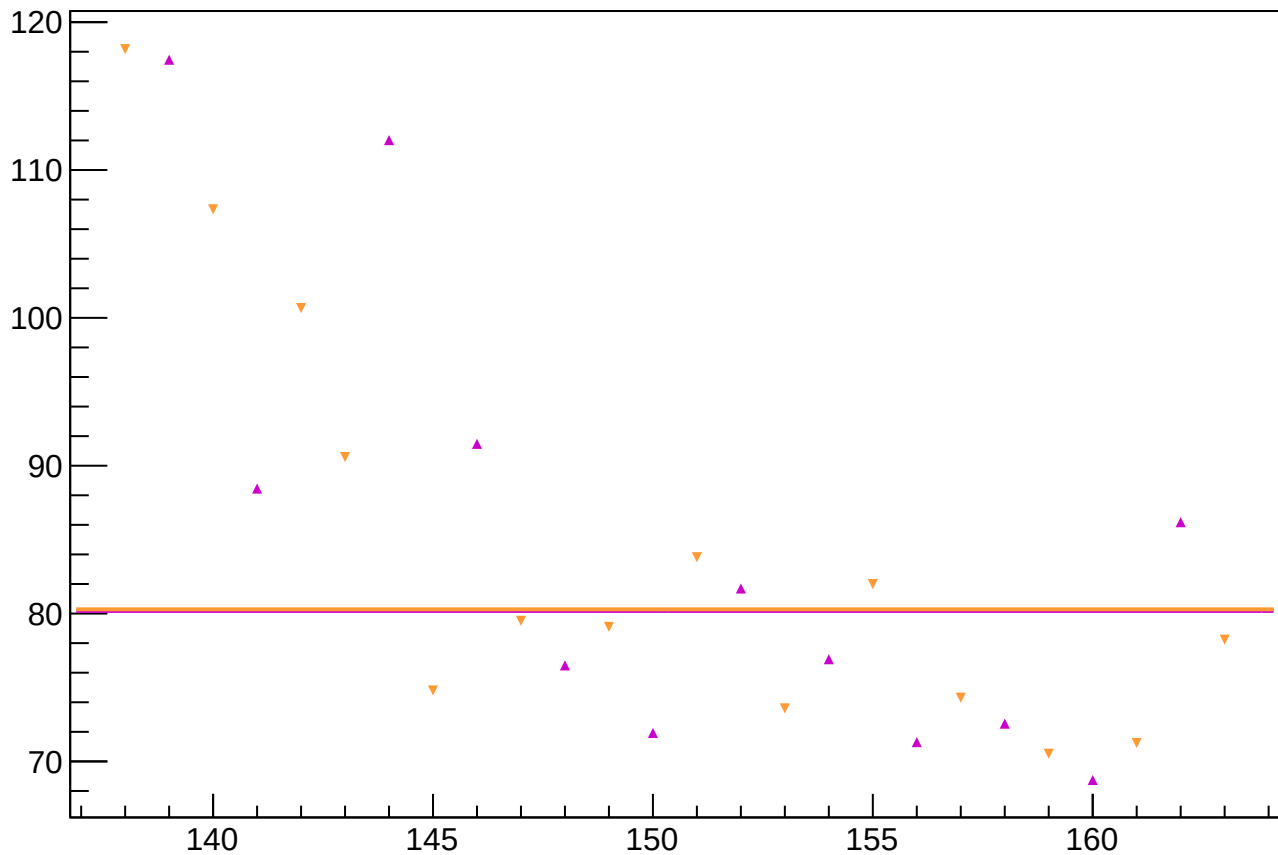
Left In: -83.426 $\pm$ 26.149  $\chi^2$ /NDF:21.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.393 $\pm$ 18.136  $\chi^2$ /NDF: 61.2/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_37\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 80.286+/-0.018  $\chi^2/\text{NDF}$ : 388787.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

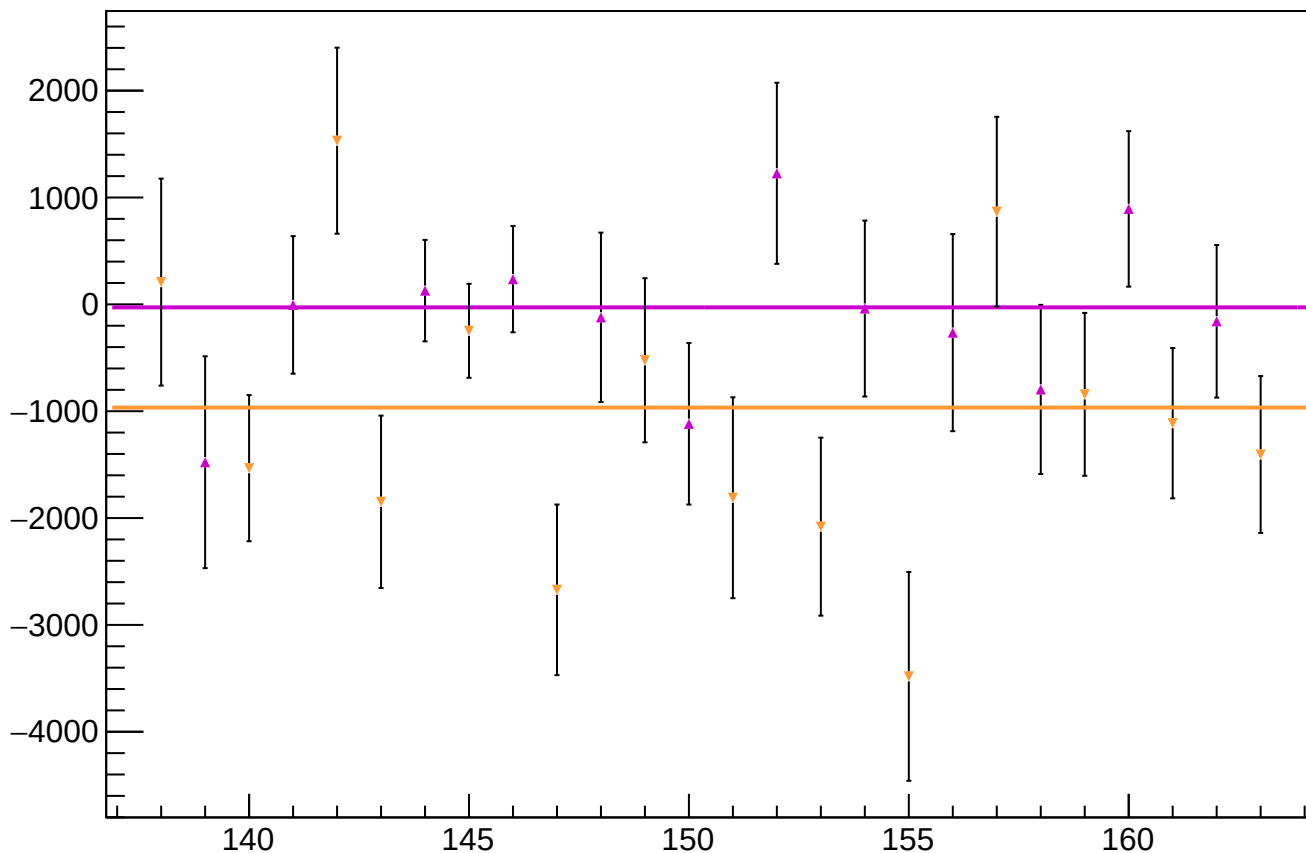
Left In: 80.179+/-0.018  $\chi^2/\text{NDF}$ : 447900.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.235+/-0.013  $\chi^2/\text{NDF}$ : 836705.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_correction\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-966.022 \pm 200.081$   $\chi^2/\text{NDF}$ : 33.1/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

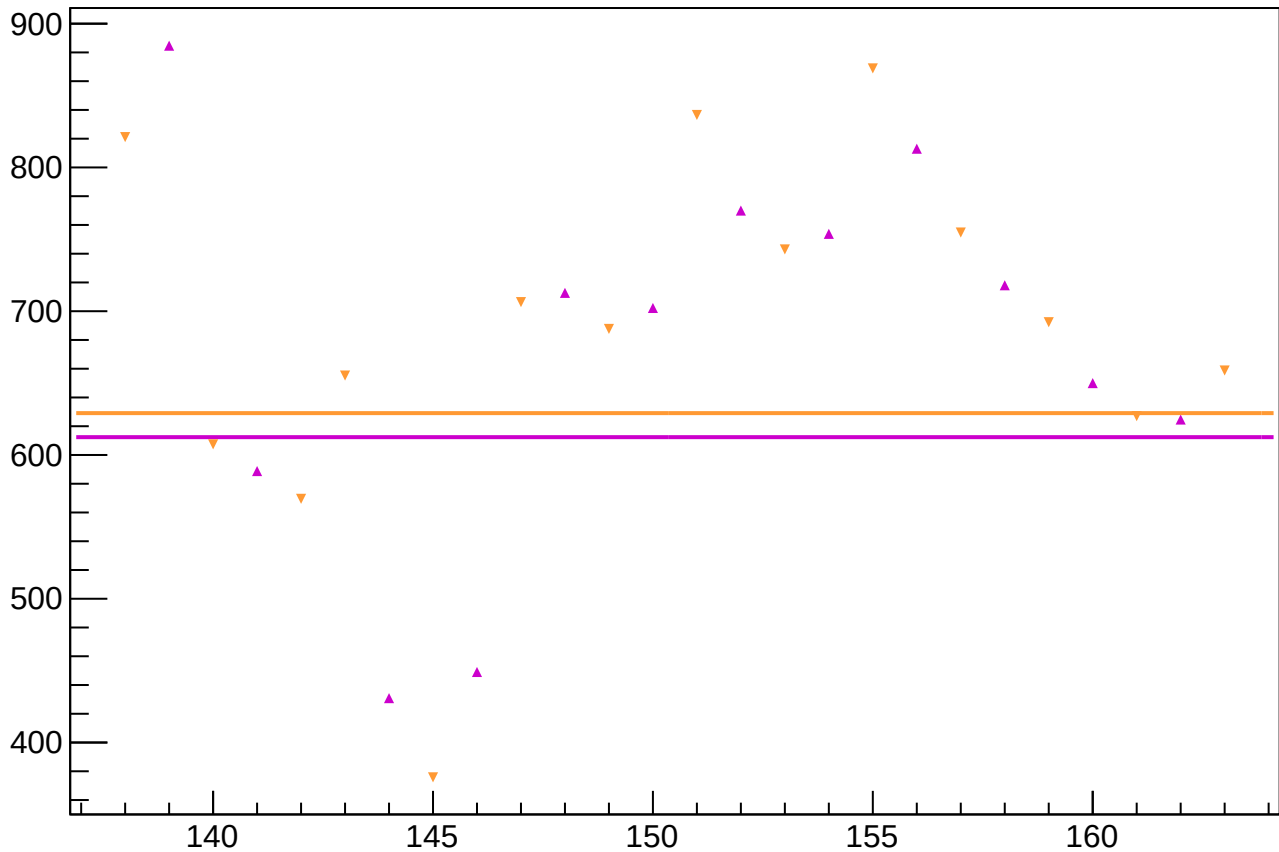
Left In:  $-28.293 \pm 201.046$   $\chi^2/\text{NDF}$ : 9.5/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-499.413 \pm 141.818$   $\chi^2/\text{NDF}$ : 53.5/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 629.114+/-0.141  $\chi^2/\text{NDF}$ : 1097860.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 612.396+/-0.142  $\chi^2/\text{NDF}$ : 986243.1/11

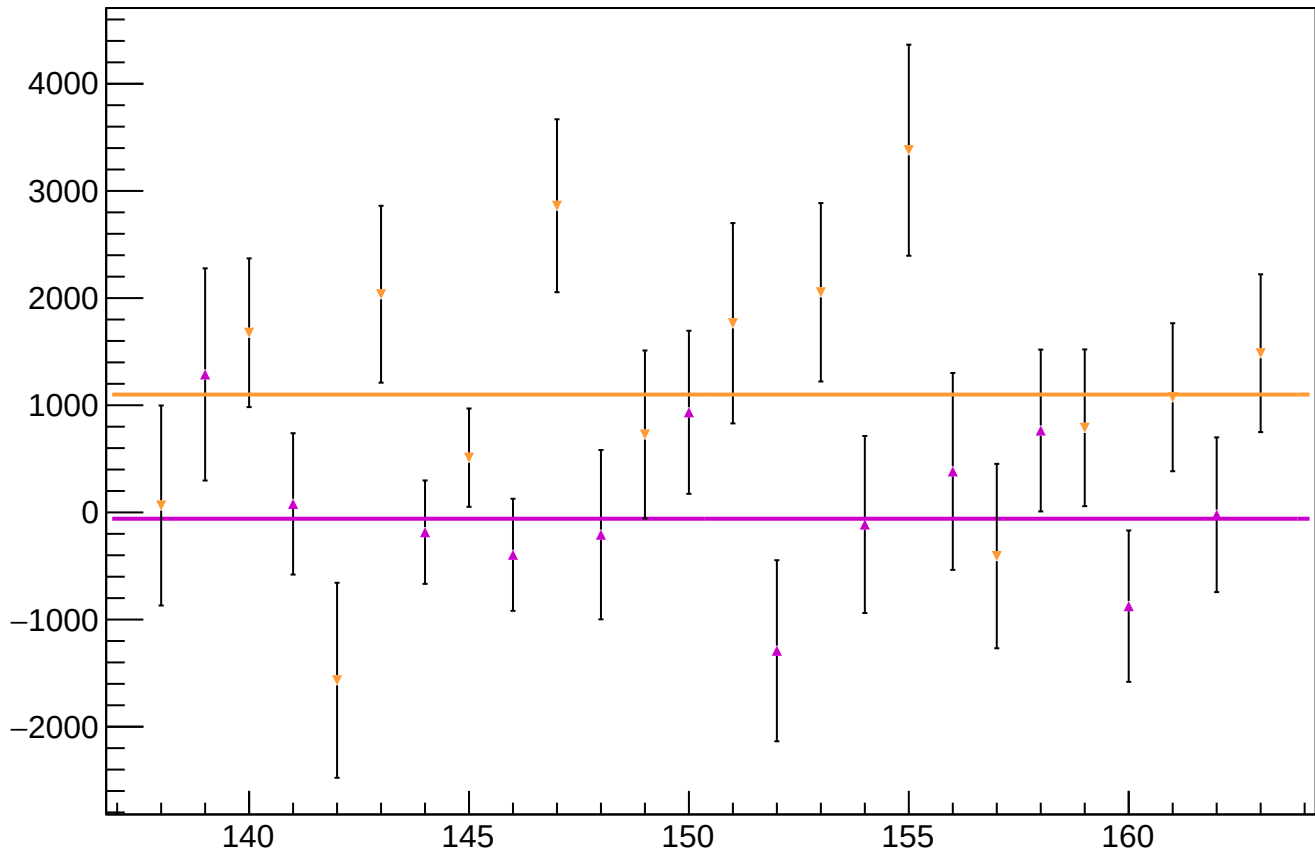
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 620.795+/-0.100  $\chi^2/\text{NDF}$ : 2091052.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1099.833+/-201.654  $\chi^2/\text{NDF}$ : 29.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

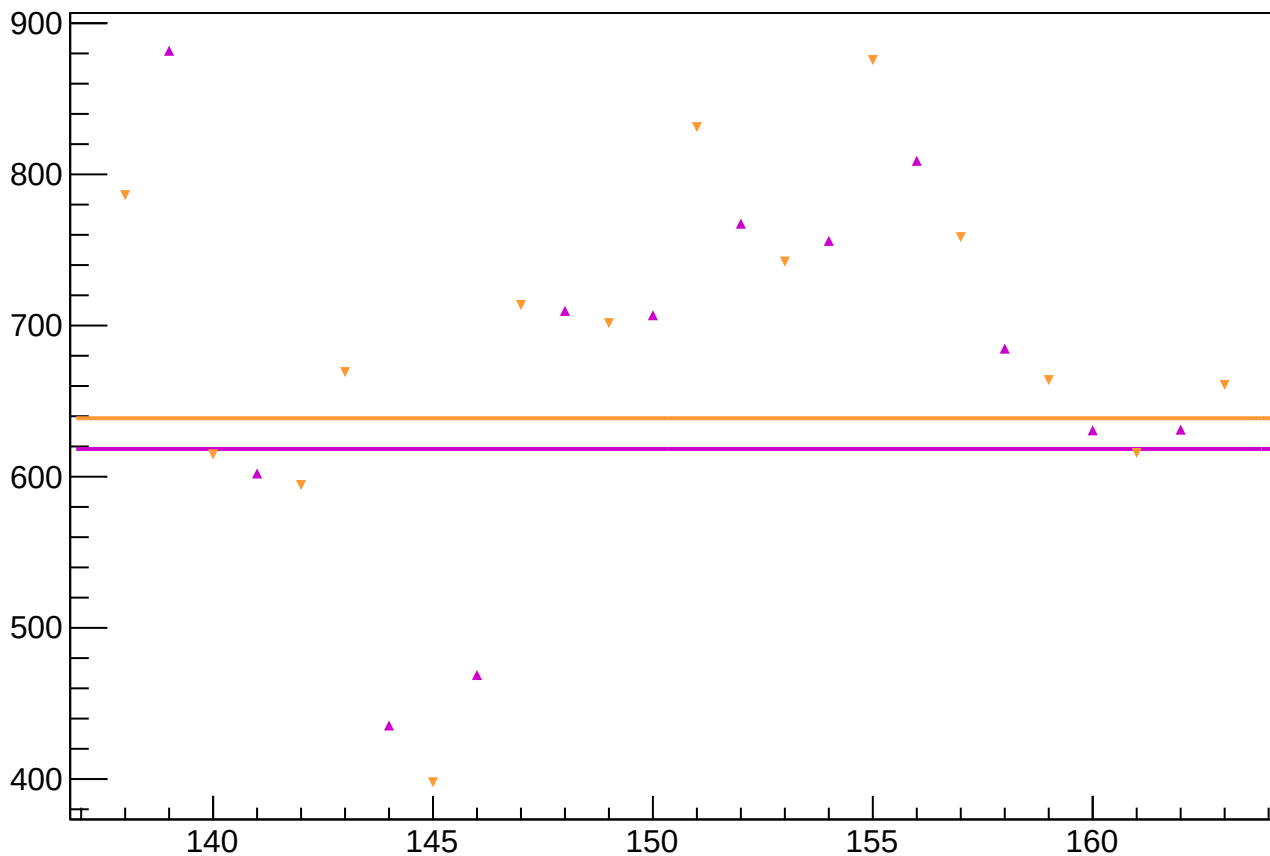
Left In: -59.072+/-202.759  $\chi^2/\text{NDF}$ : 9.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 523.549+/-142.980  $\chi^2/\text{NDF}$ : 54.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 638.675+/-0.143  $\chi^2/\text{NDF}$ : 917615.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

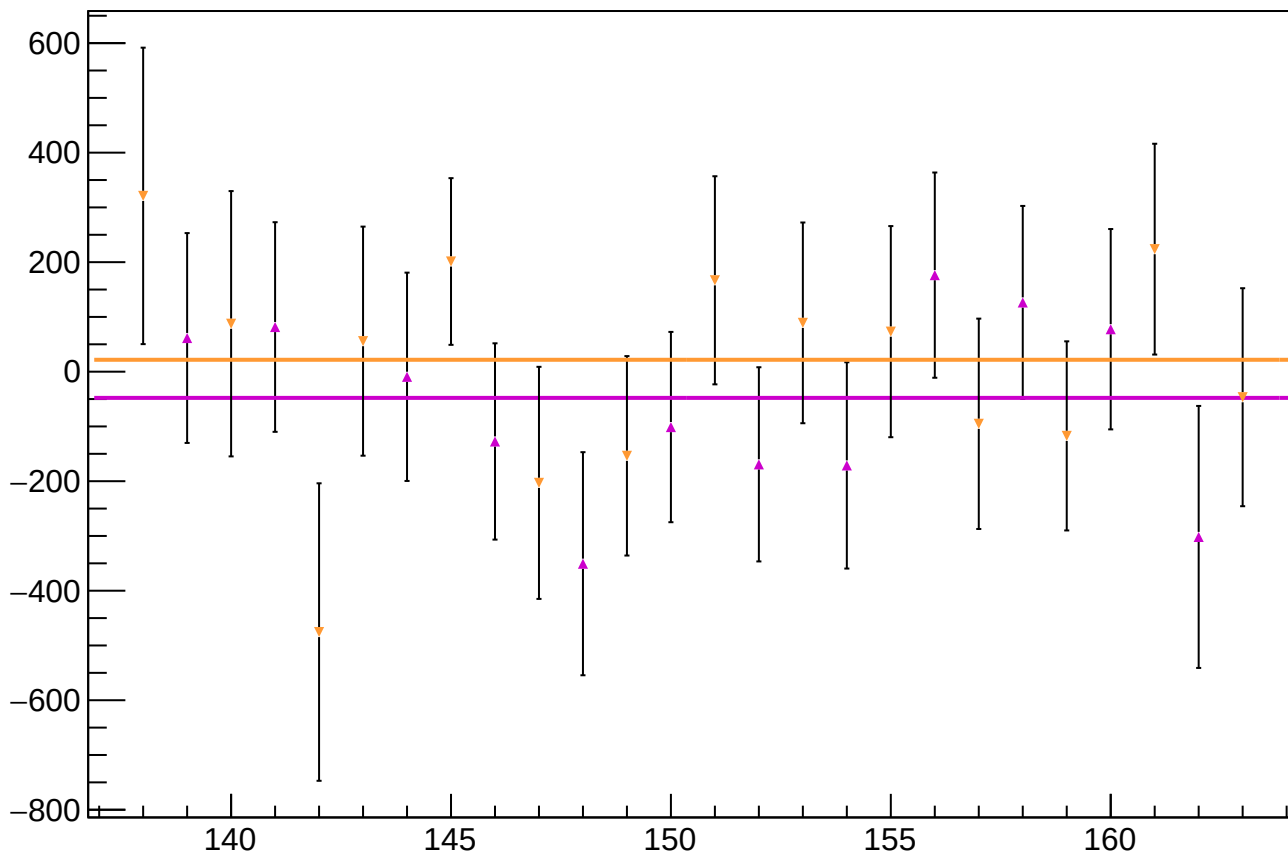
Left In: 618.390+/-0.143  $\chi^2/\text{NDF}$ : 867930.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 628.588+/-0.101  $\chi^2/\text{NDF}$ : 1795611.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 21.743 $\pm$ 52.711  $\chi^2$ /NDF:11.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

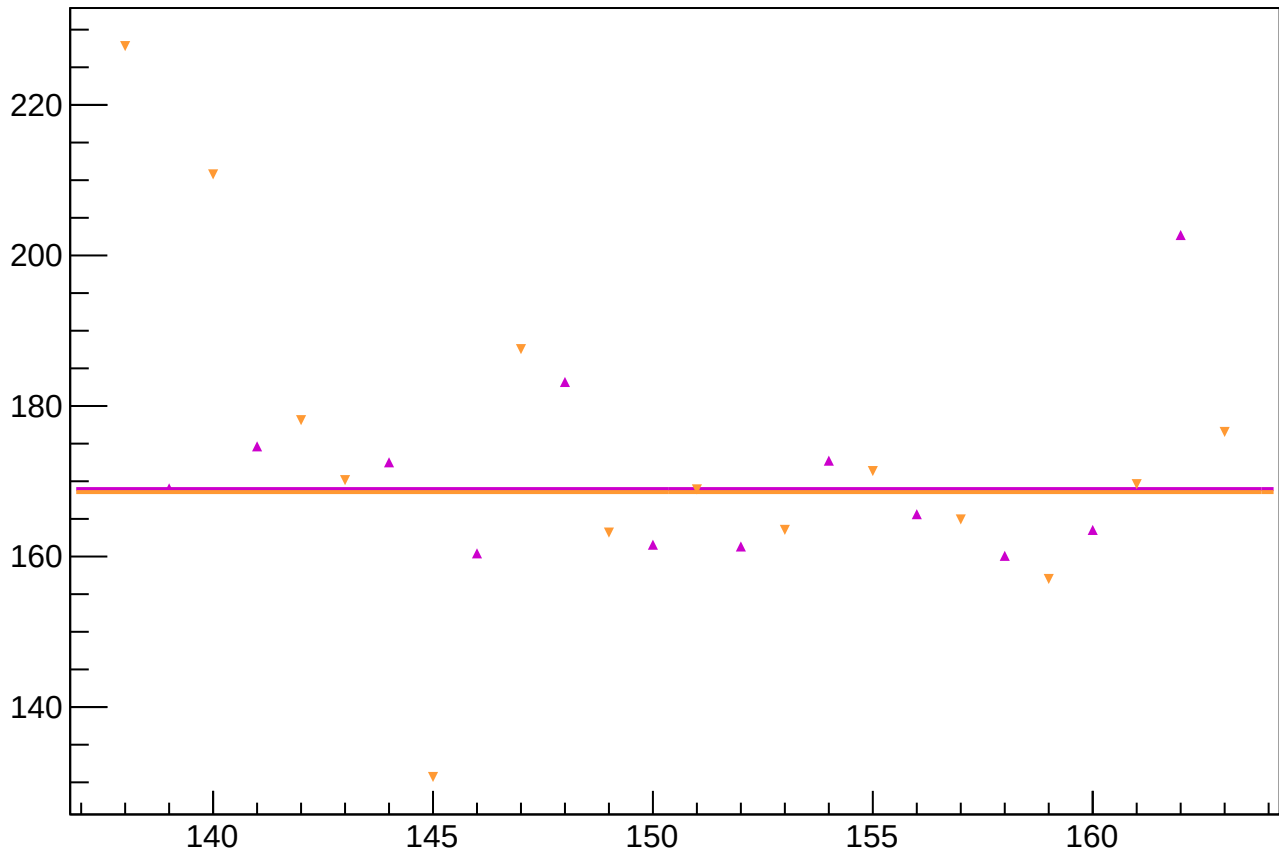
Left In: -47.854 $\pm$ 54.353  $\chi^2$ /NDF:8.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -11.989 $\pm$ 37.840  $\chi^2$ /NDF: 20.2/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_48\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 168.563+/-0.037  $\chi^2/\text{NDF}$ : 315464.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

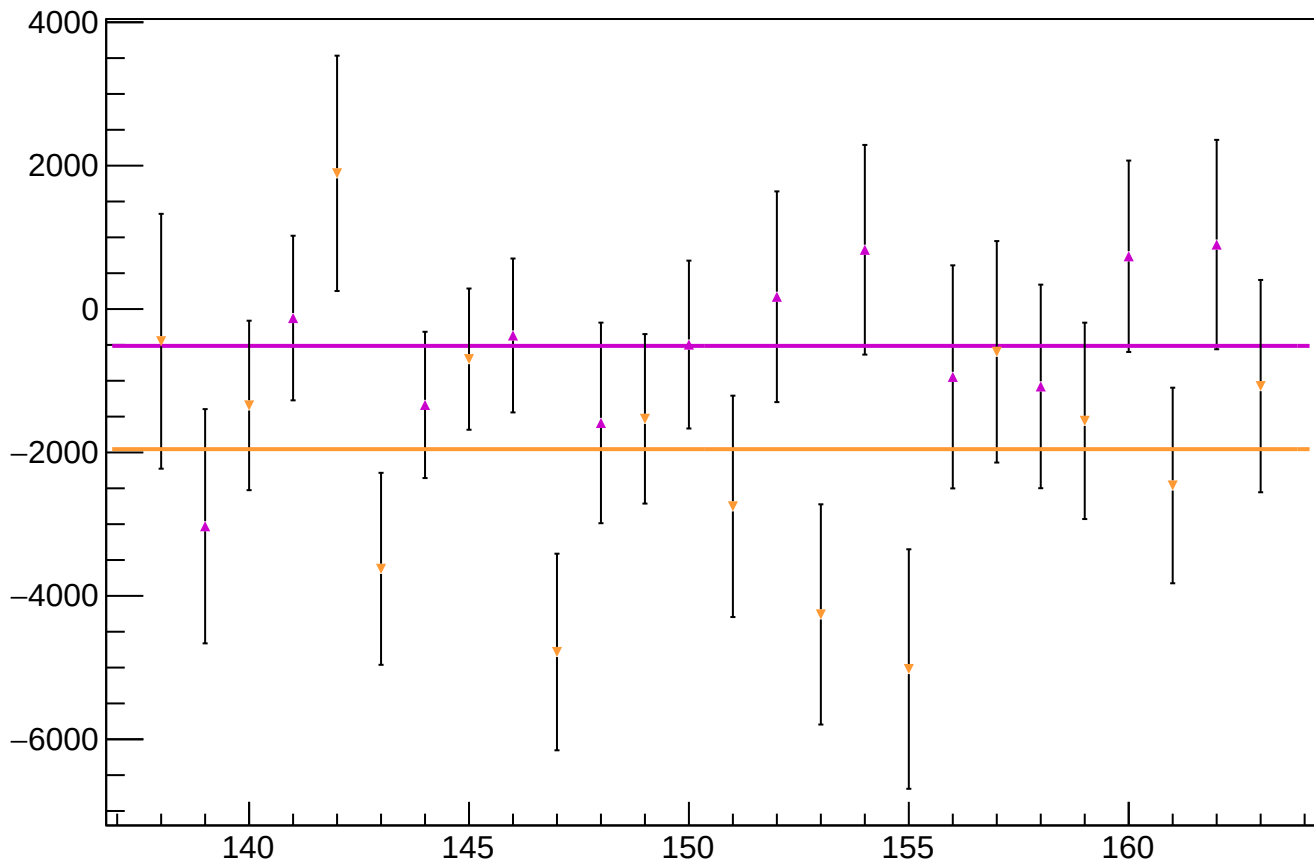
Left In: 168.960+/-0.038  $\chi^2/\text{NDF}$ : 72138.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 168.756+/-0.027  $\chi^2/\text{NDF}$ : 387658.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1953.838+/-367.853  $\chi^2/\text{NDF}$ : 21.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

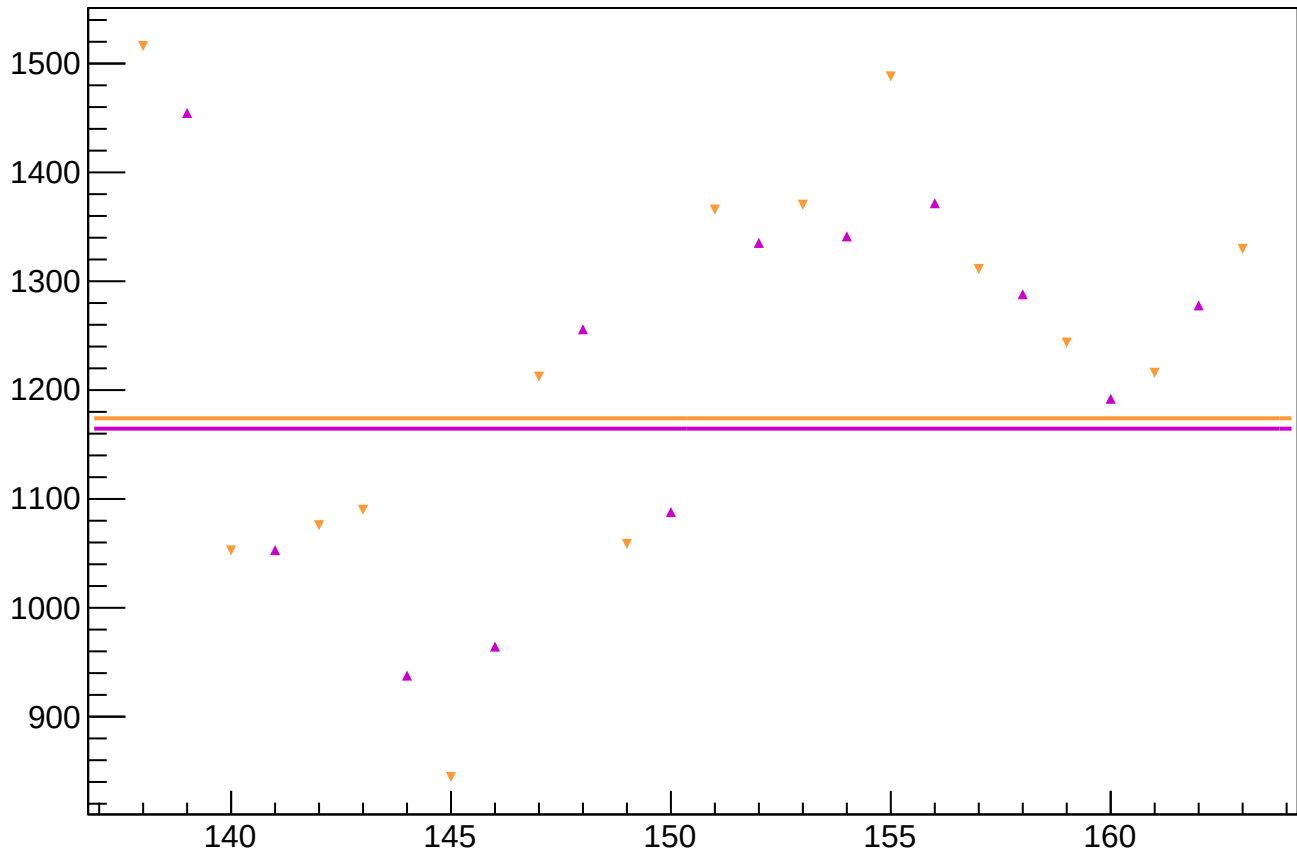
Left In: -513.543+/-375.941  $\chi^2/\text{NDF}$ : 6.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1249.350+/-262.924  $\chi^2/\text{NDF}$ : 35.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1174.096+/-0.260  $\chi^2/\text{NDF}$ : 533962.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

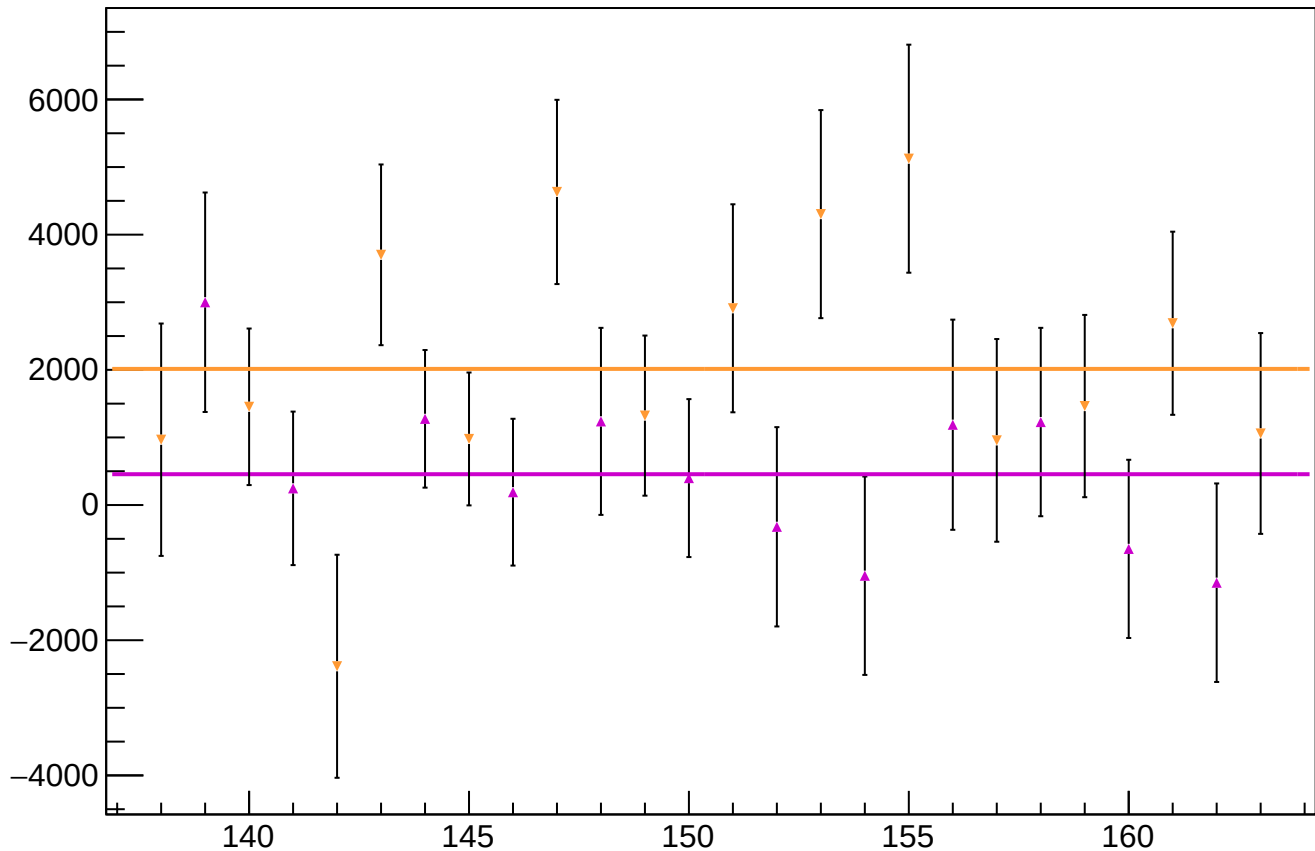
Left In: 1164.591+/-0.266  $\chi^2/\text{NDF}$ : 387205.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1169.447+/-0.186  $\chi^2/\text{NDF}$ : 921821.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2013.923+/-365.475  $\chi^2/\text{NDF}$ : 21.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

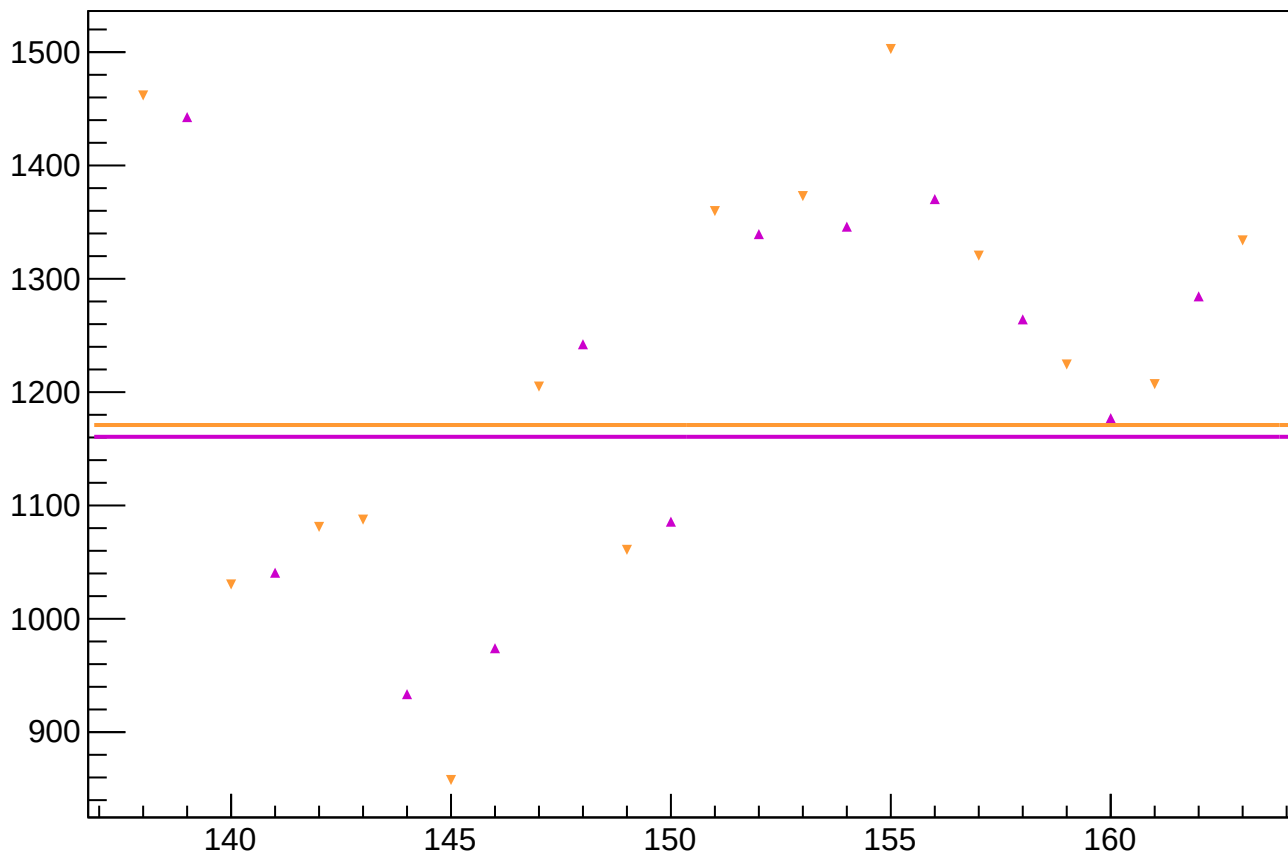
Left In: 455.931+/-374.882  $\chi^2/\text{NDF}$ : 7.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1254.720+/-261.693  $\chi^2/\text{NDF}$ : 37.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1170.996+/-0.258  $\chi^2/\text{NDF}$ : 512561.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1160.593+/-0.265  $\chi^2/\text{NDF}$ : 379806.6/11

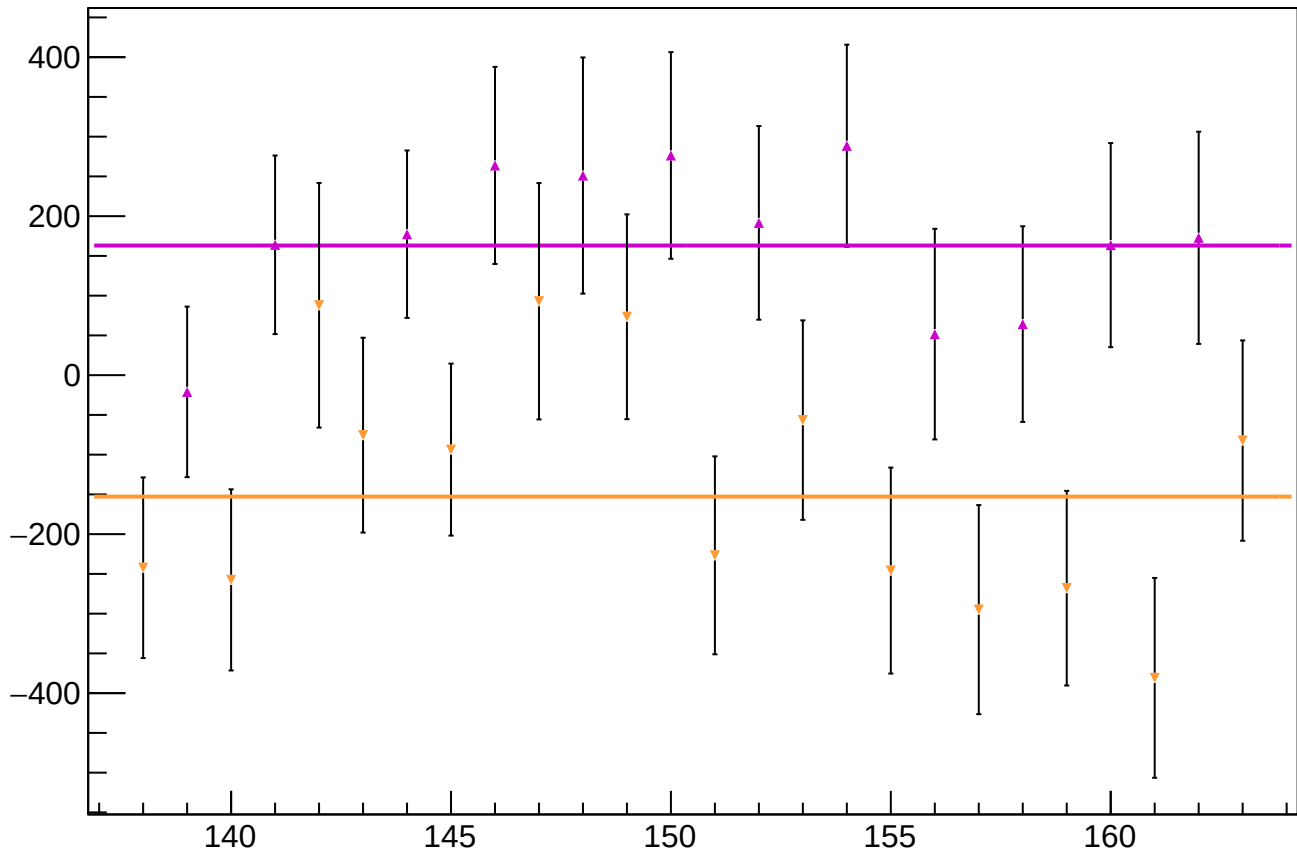
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1165.927+/-0.185  $\chi^2/\text{NDF}$ : 893157.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_sam\_15\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -152.750 $\pm$ 33.467  $\chi^2$ /NDF:17.5/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

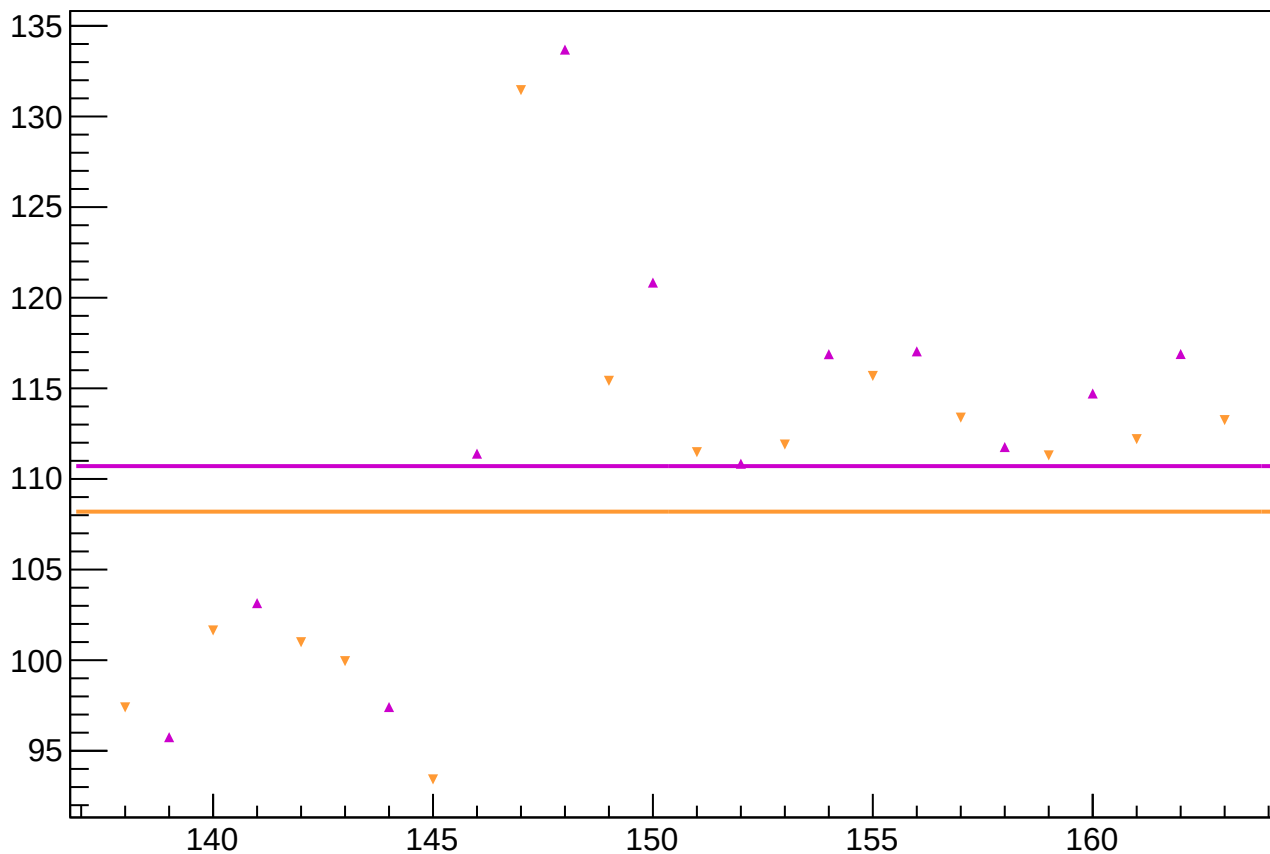
Left In: 163.039 $\pm$ 35.464  $\chi^2$ /NDF:7.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3.994 $\pm$ 24.340  $\chi^2$ /NDF: 66.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_15\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 108.197+/-0.024  $\chi^2/\text{NDF}$ :150137.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

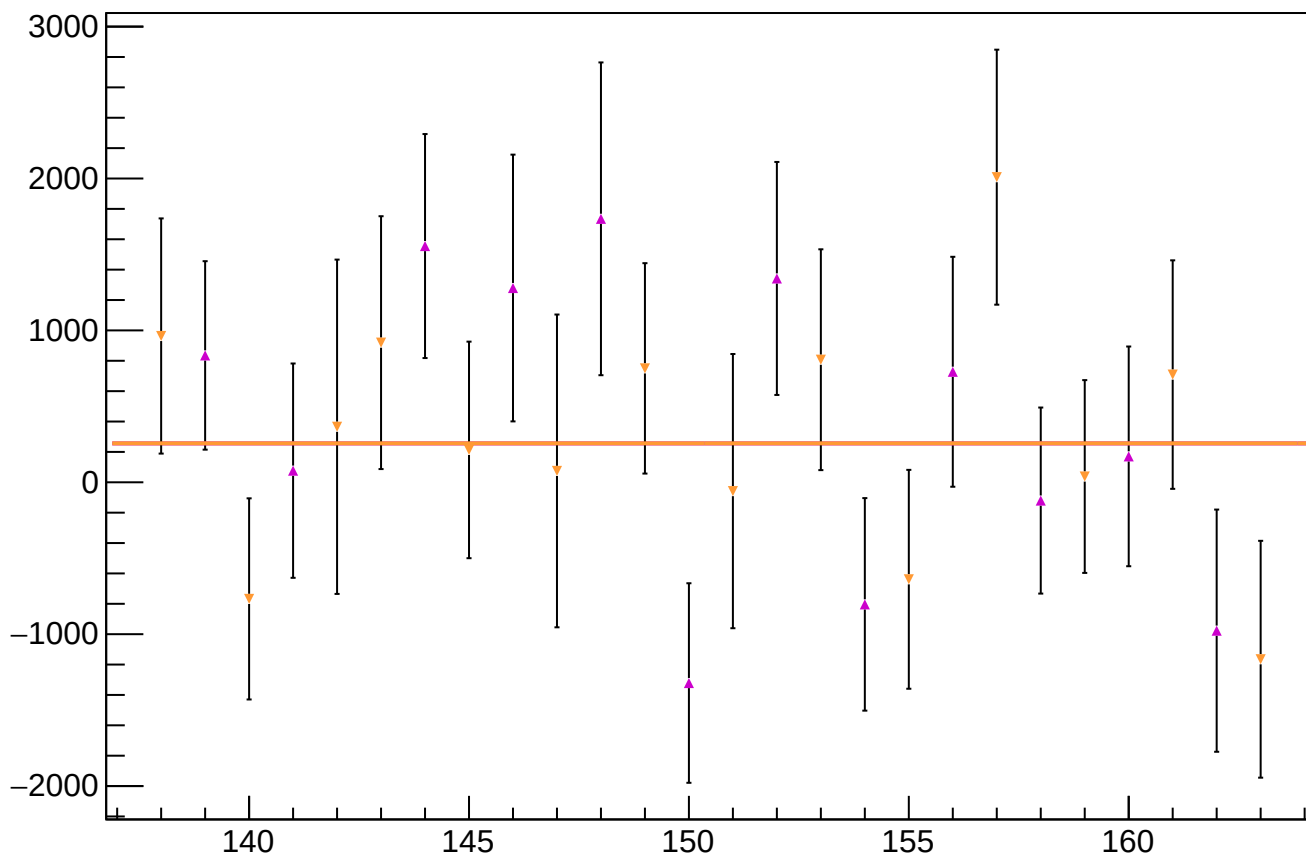
Left In: 110.709+/-0.025  $\chi^2/\text{NDF}$ :155576.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 109.380+/-0.017  $\chi^2/\text{NDF}$ : 311021.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 256.446+/-205.957  $\chi^2/\text{NDF}$ :14.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

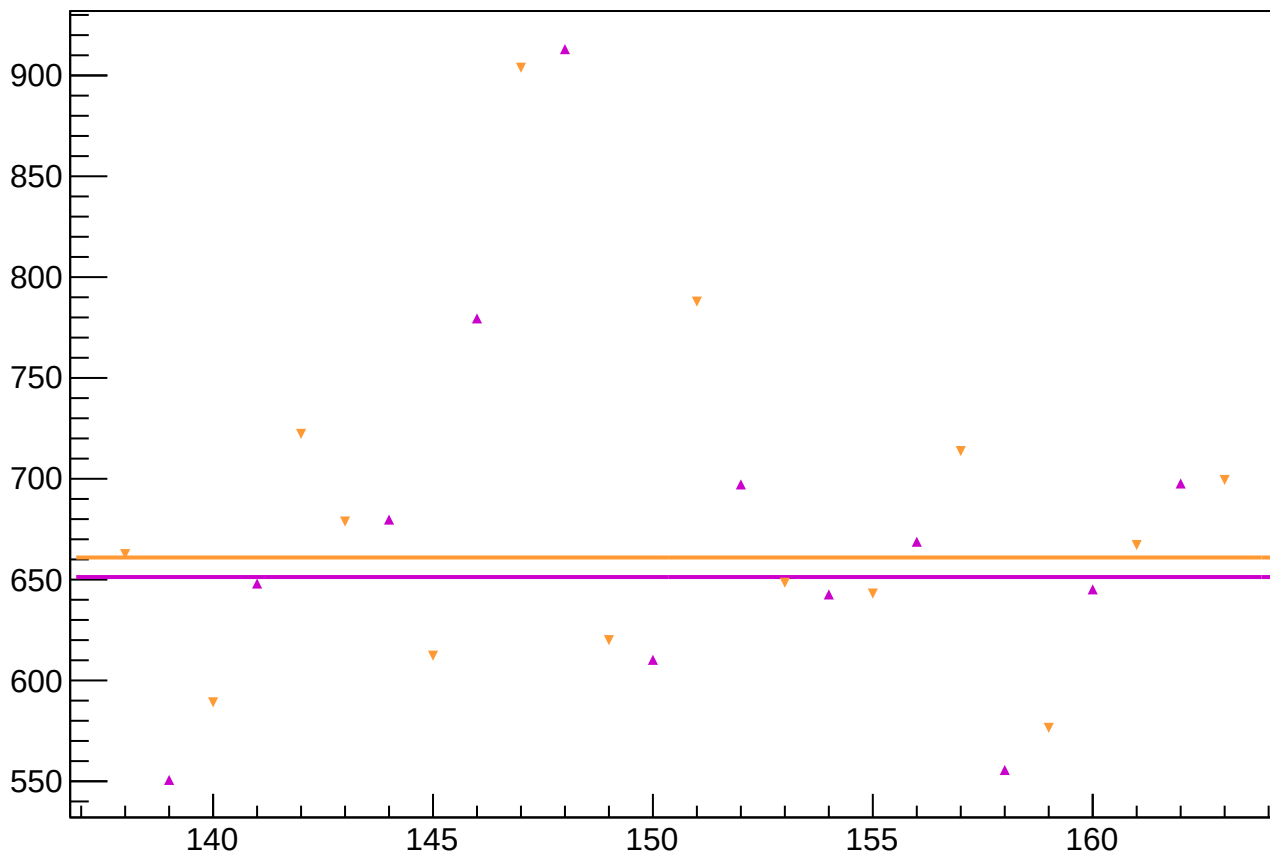
Left In: 255.922+/-210.153  $\chi^2/\text{NDF}$ :20.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 256.189+/-147.095  $\chi^2/\text{NDF}$ : 35.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 660.968+/-0.146  $\chi^2/\text{NDF}$ : 247962.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

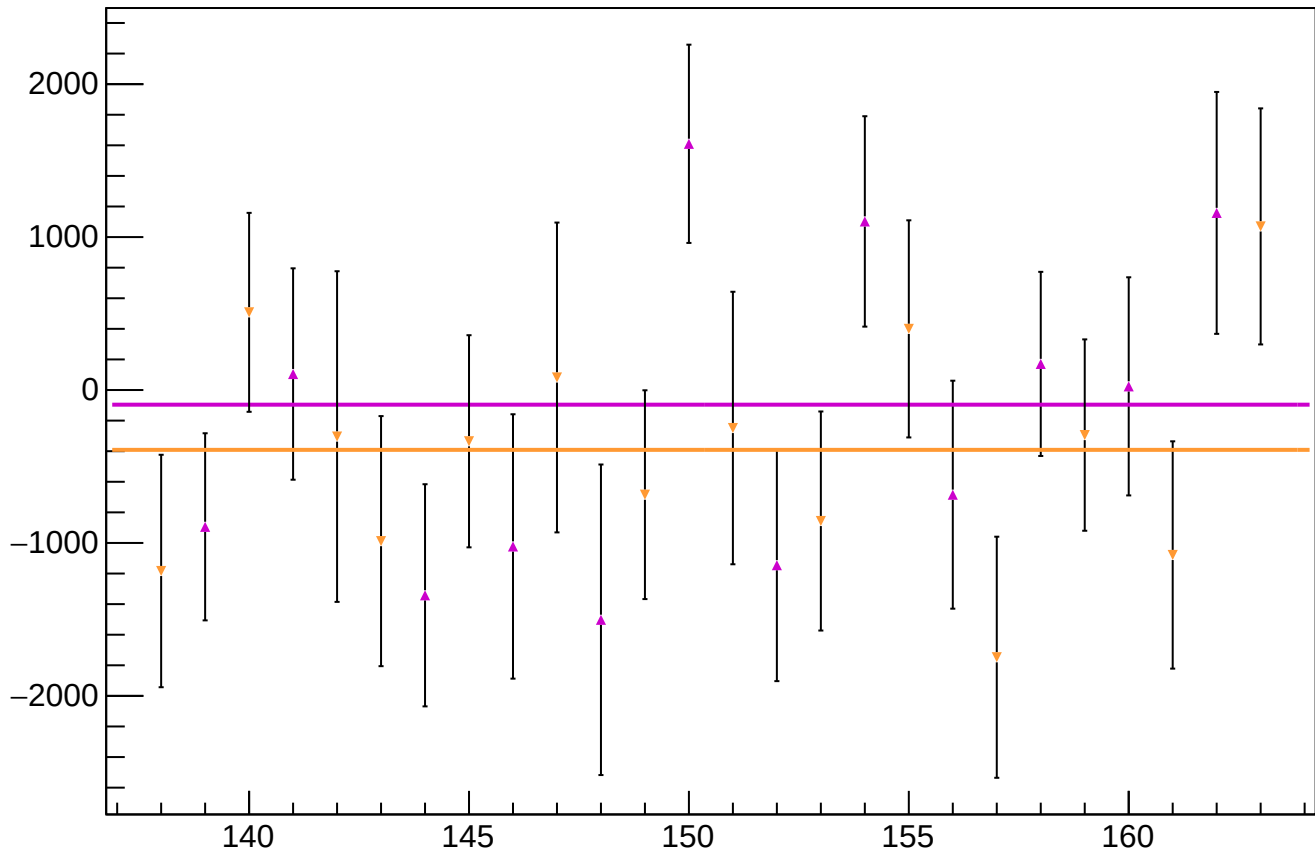
Left In: 651.277+/-0.149  $\chi^2/\text{NDF}$ : 299647.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 656.220+/-0.104  $\chi^2/\text{NDF}$ : 549778.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-391.277 \pm 202.055$   $\chi^2/\text{NDF}$ : 13.1/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

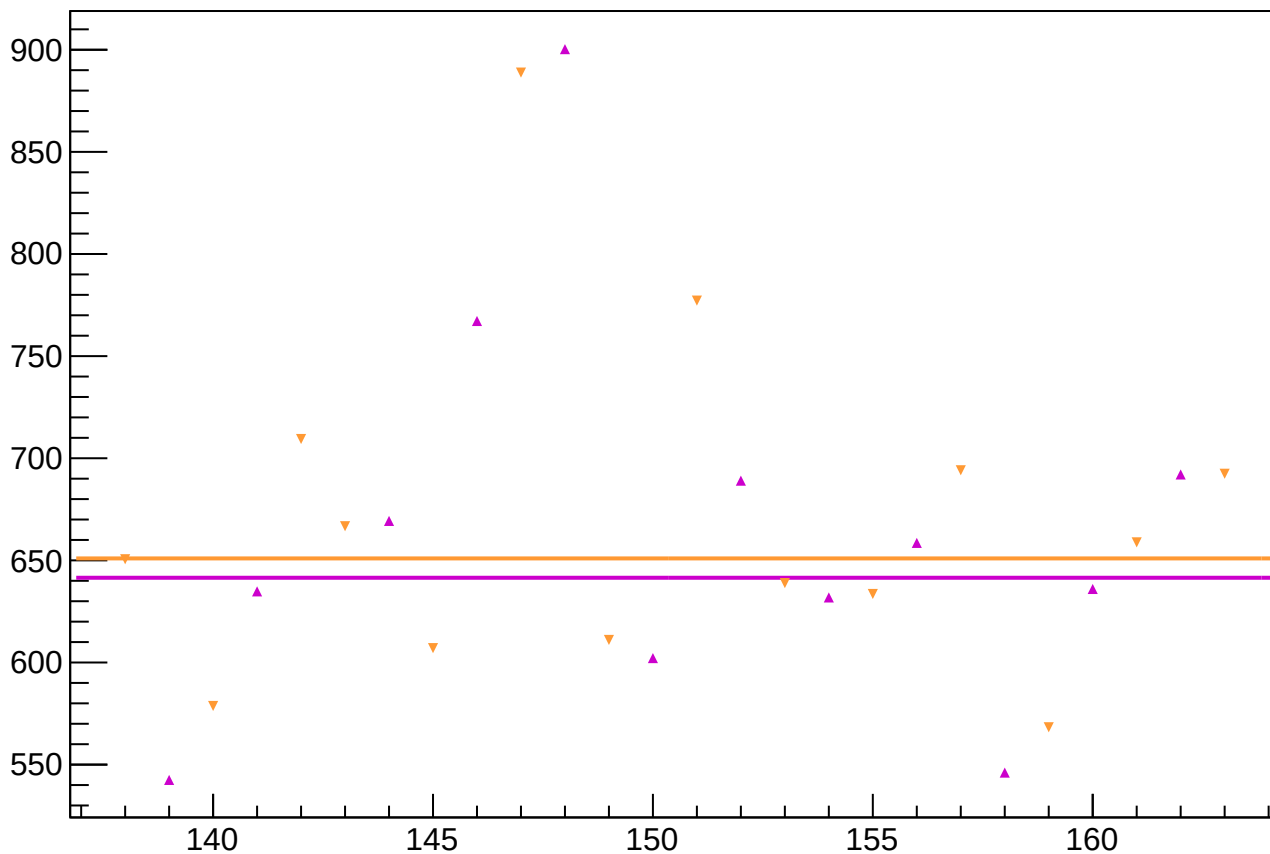
Left In:  $-95.858 \pm 207.047$   $\chi^2/\text{NDF}$ : 23.0/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-247.171 \pm 144.607$   $\chi^2/\text{NDF}$ : 37.1/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 650.958+/-0.143  $\chi^2/\text{NDF}$ : 245228.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

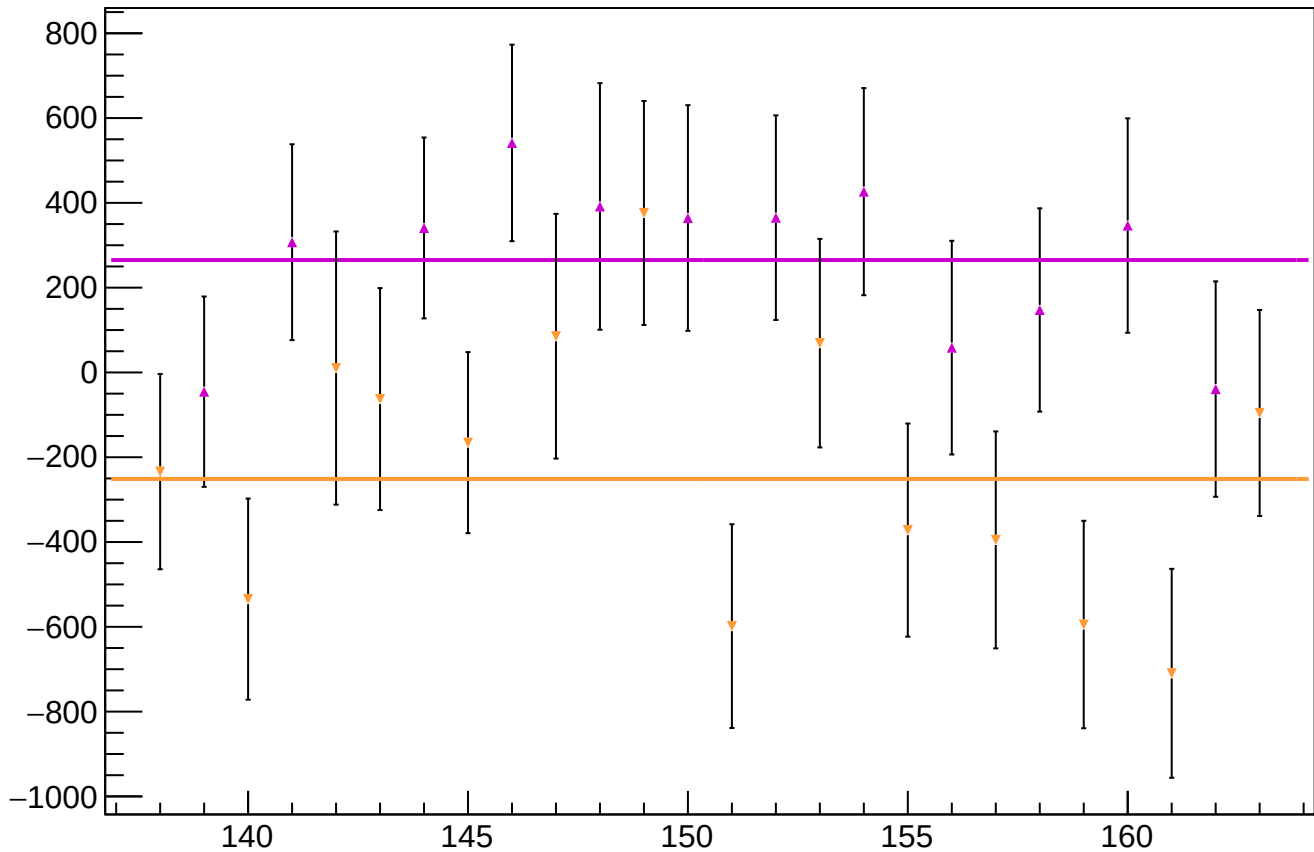
Left In: 641.490+/-0.146  $\chi^2/\text{NDF}$ : 302921.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 646.339+/-0.102  $\chi^2/\text{NDF}$ : 550292.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_26\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -251.226 $\pm$ 66.789  $\chi^2$ /NDF:19.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

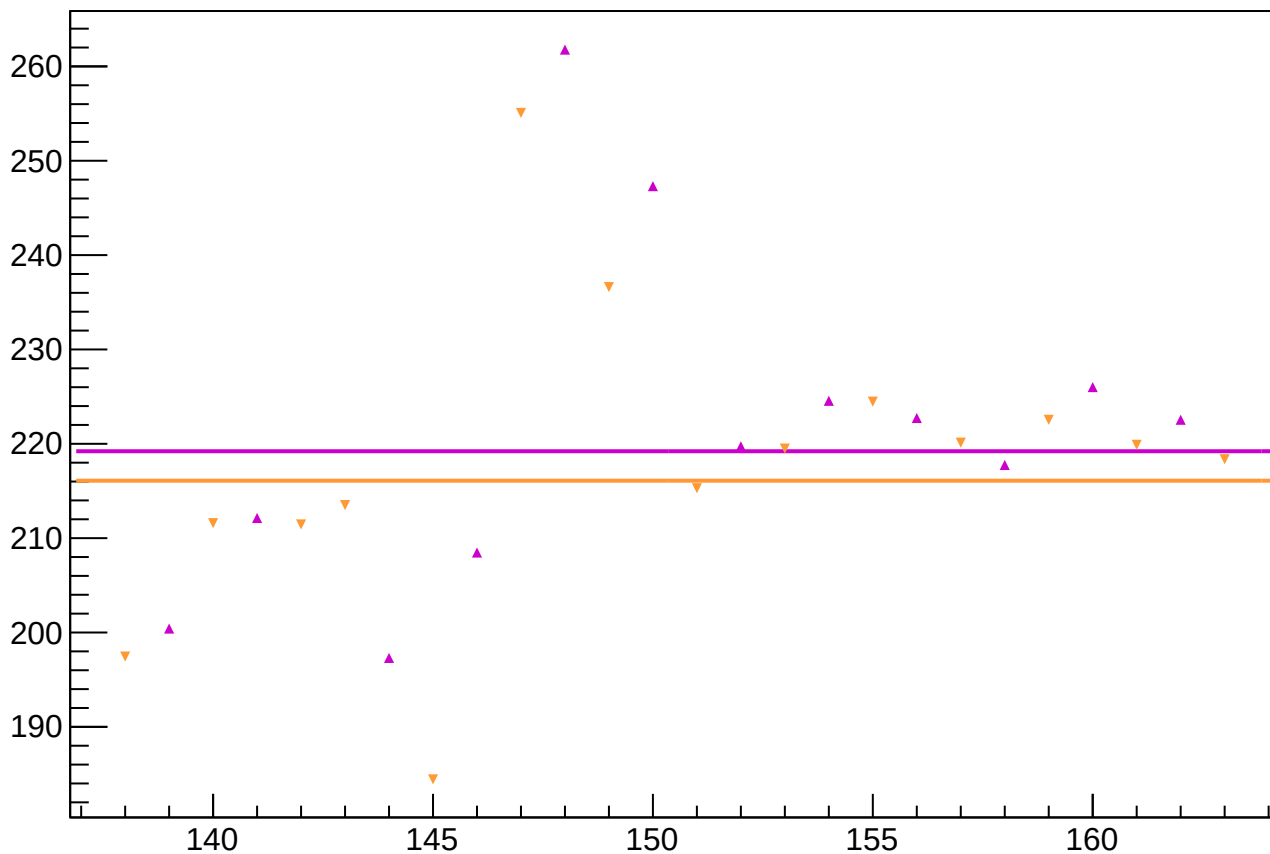
Left In: 265.158 $\pm$ 70.133  $\chi^2$ /NDF:6.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -5.636 $\pm$ 48.366  $\chi^2$ /NDF: 55.3/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 216.091+/-0.047  $\chi^2/\text{NDF}$ : 112097.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 219.213+/-0.050  $\chi^2/\text{NDF}$ : 109640.4/11

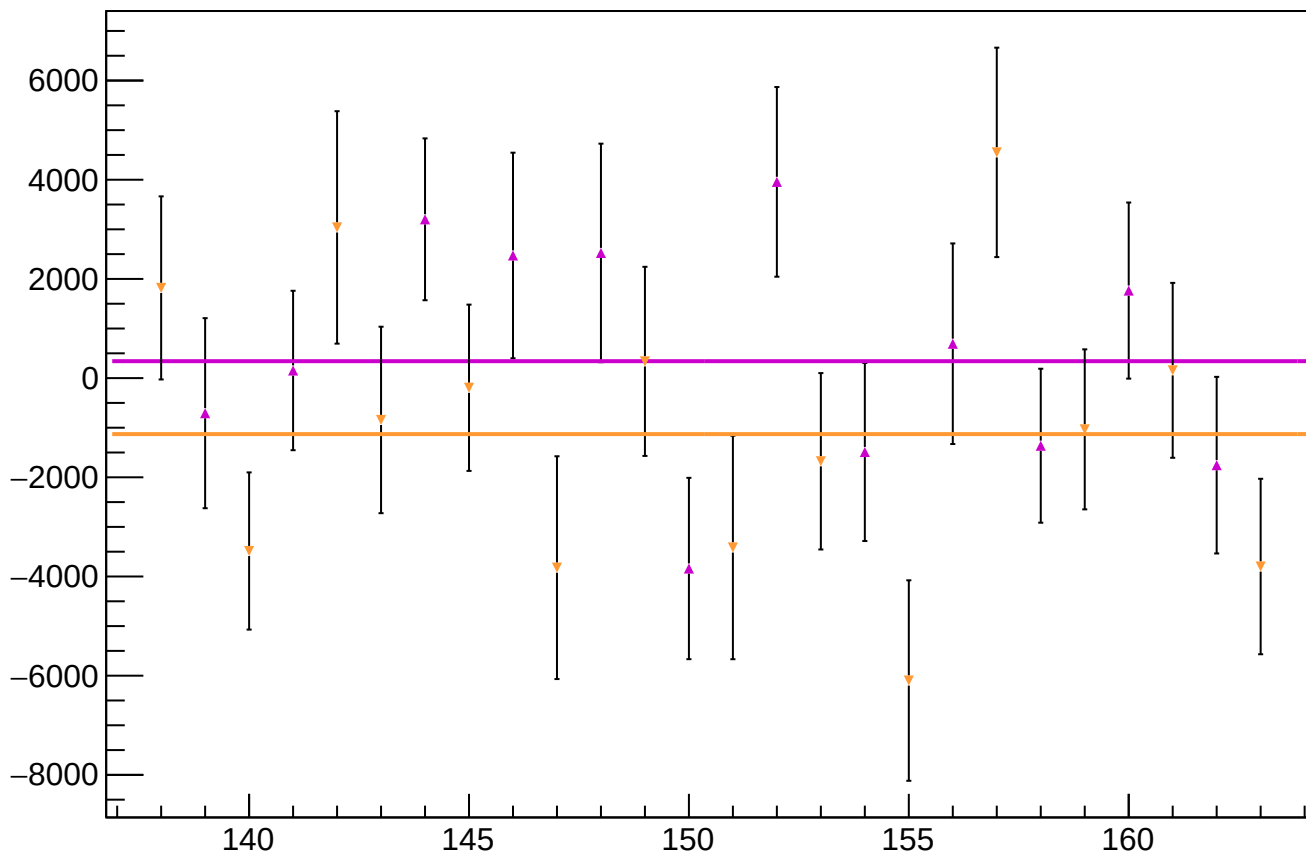
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 217.576+/-0.034  $\chi^2/\text{NDF}$ : 223816.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_26\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1128.968+/-500.405  $\chi^2/\text{NDF}$ : 27.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

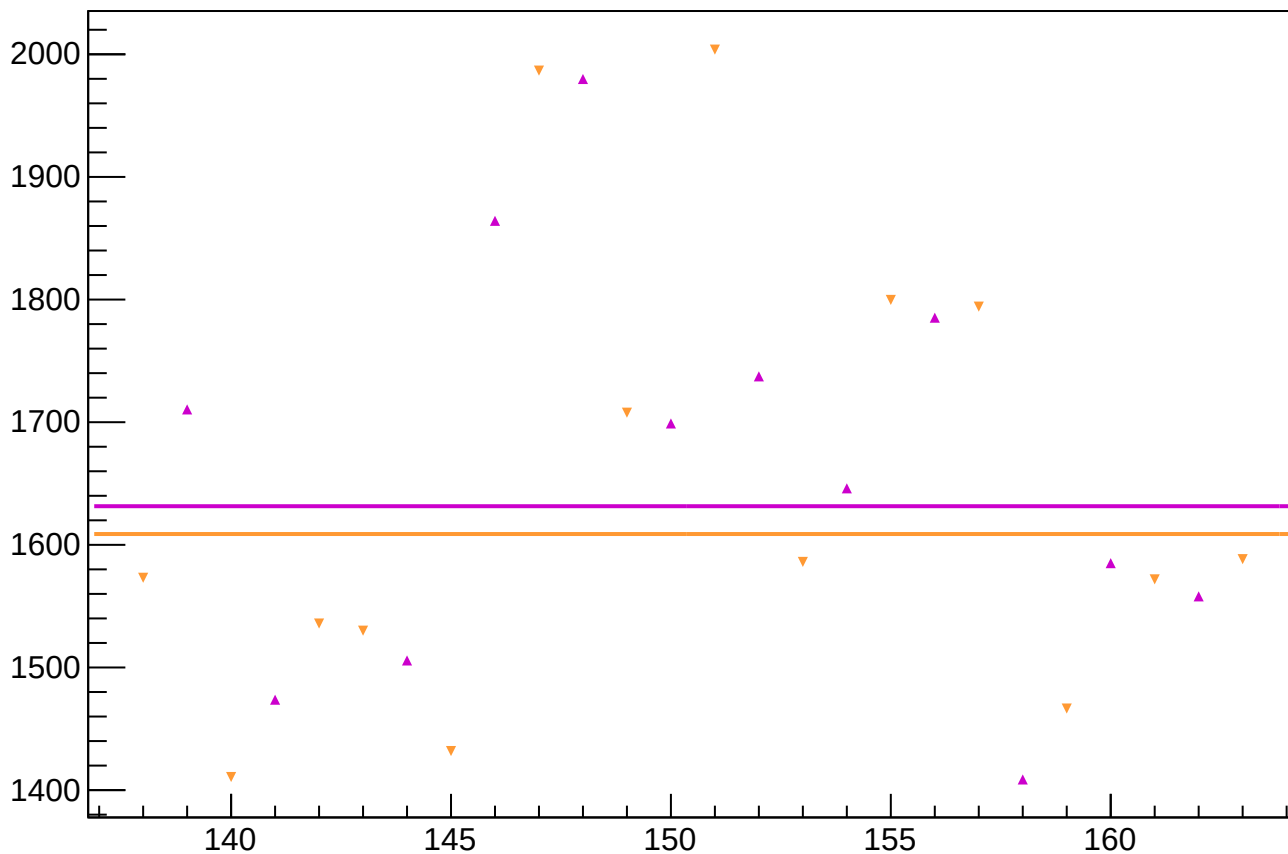
Left In: 341.650+/-523.478  $\chi^2/\text{NDF}$ : 18.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -426.781+/-361.722  $\chi^2/\text{NDF}$ : 50.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1608.826+/-0.354  $\chi^2/\text{NDF}$ :233506.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

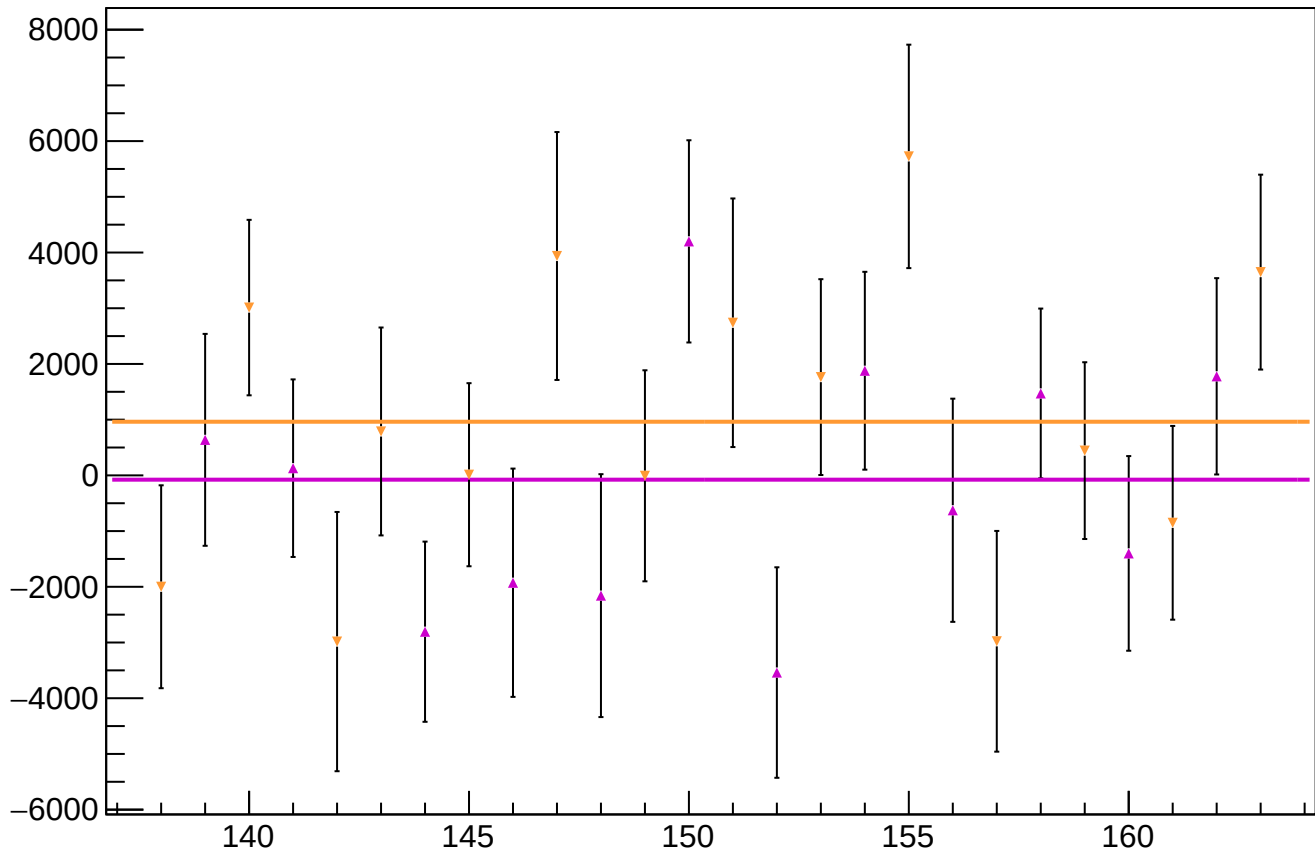
Left In: 1631.505+/-0.370  $\chi^2/\text{NDF}$ :176296.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1619.655+/-0.256  $\chi^2/\text{NDF}$ : 411764.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 962.839+/-493.210  $\chi^2/\text{NDF}$ : 23.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

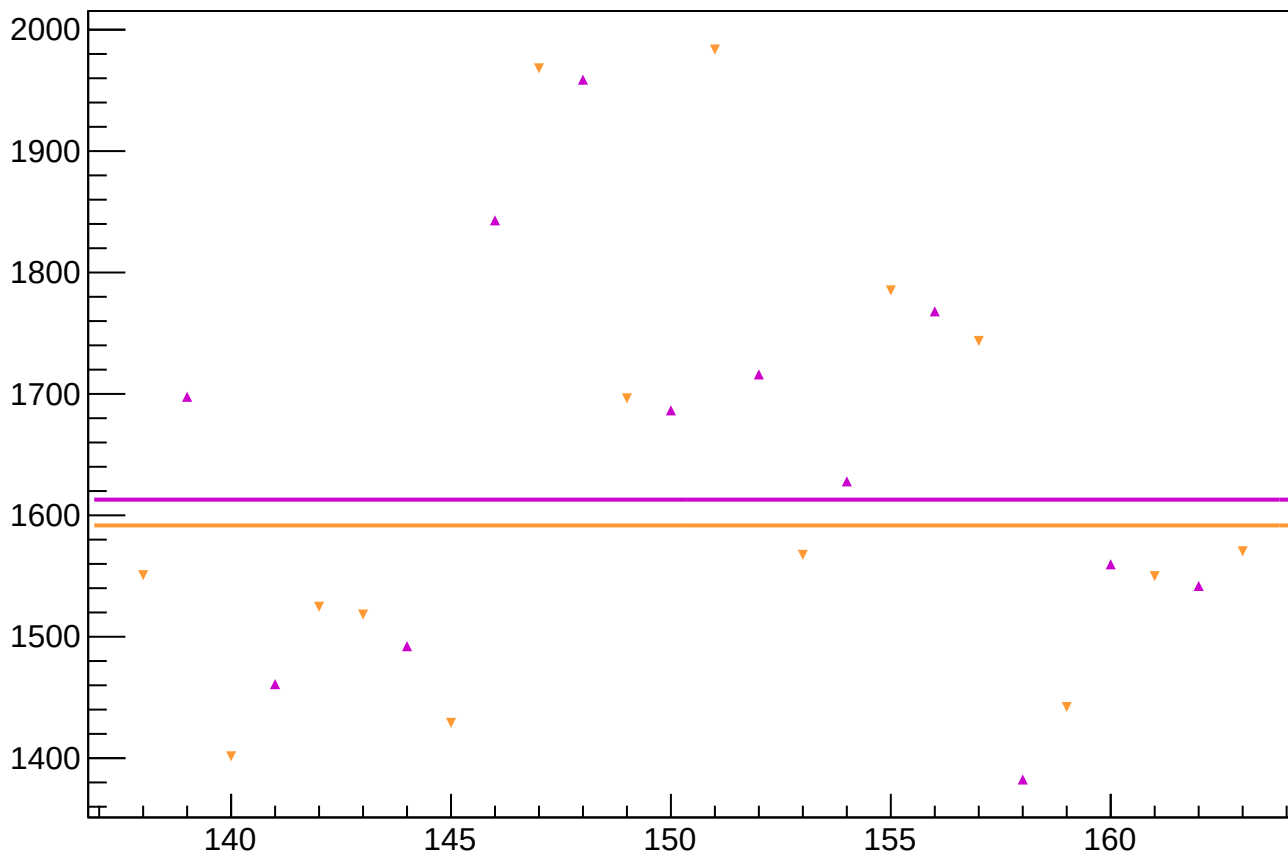
Left In: -77.282+/-517.635  $\chi^2/\text{NDF}$ : 17.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 467.896+/-357.075  $\chi^2/\text{NDF}$ : 43.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1591.696+/-0.349  $\chi^2/\text{NDF}$ : 229629.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

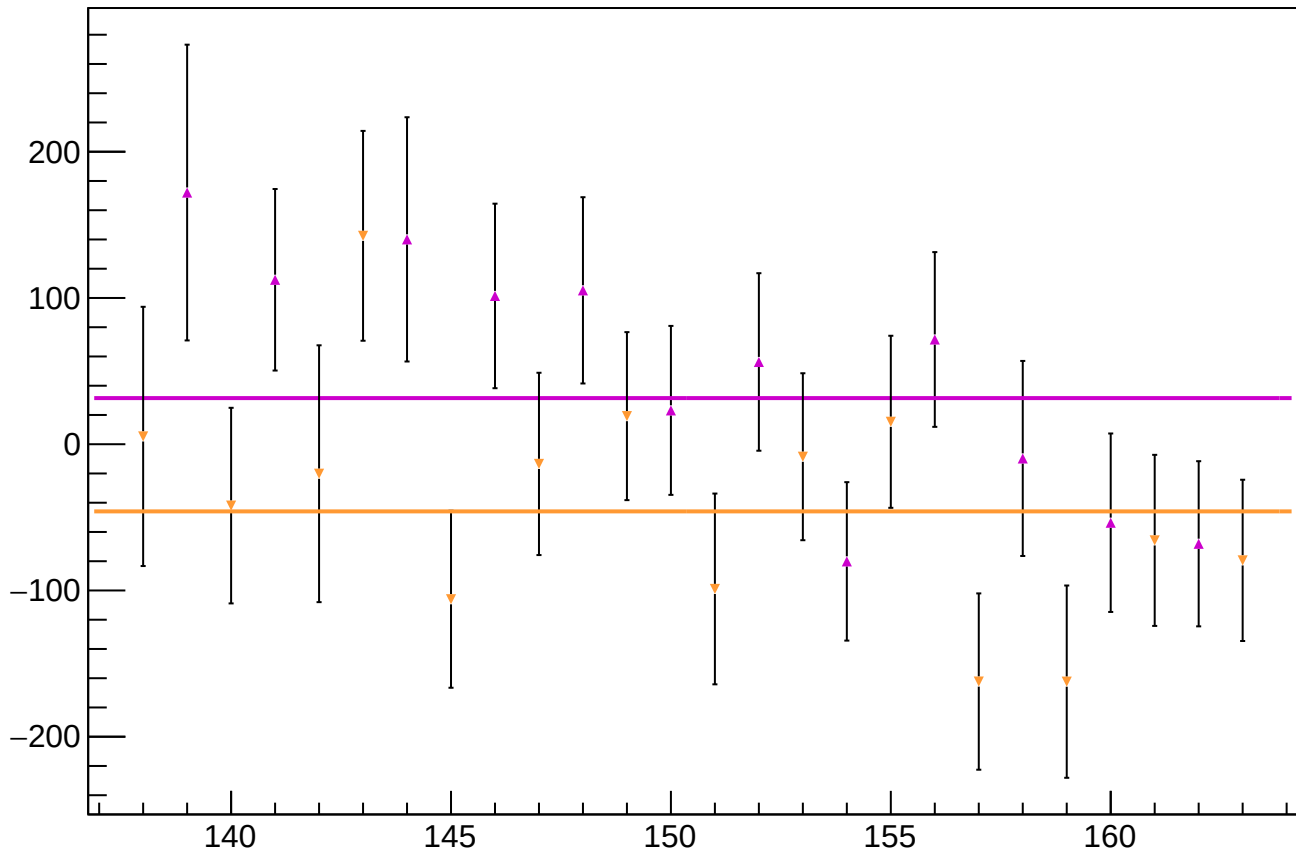
Left In: 1612.939+/-0.366  $\chi^2/\text{NDF}$ : 181148.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1601.804+/-0.252  $\chi^2/\text{NDF}$ : 412543.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -45.927 $\pm$ 16.983  $\chi^2$ /NDF:19.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

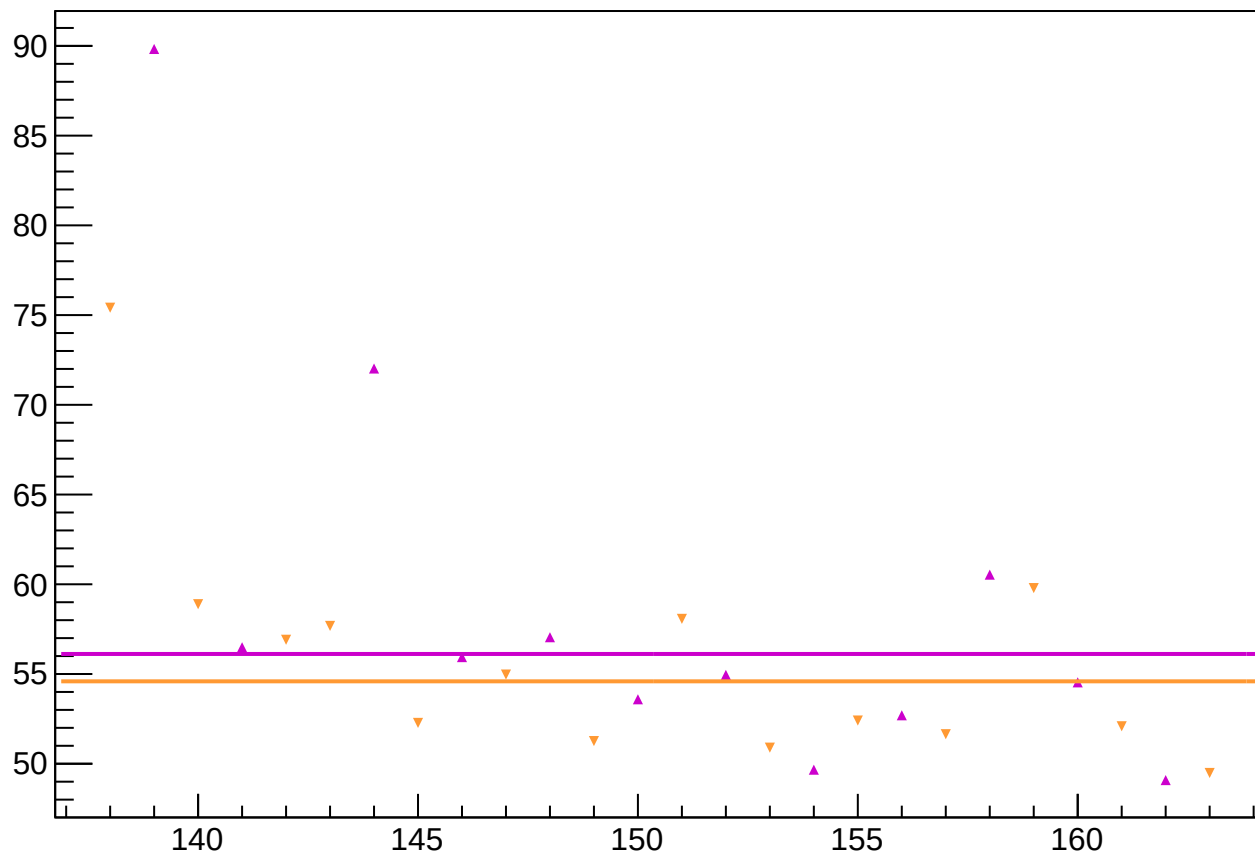
Left In: 31.536 $\pm$ 18.264  $\chi^2$ /NDF:18.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -10.008 $\pm$ 12.437  $\chi^2$ /NDF: 47.2/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 54.592+/-0.012  $\chi^2/\text{NDF}$ :188383.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

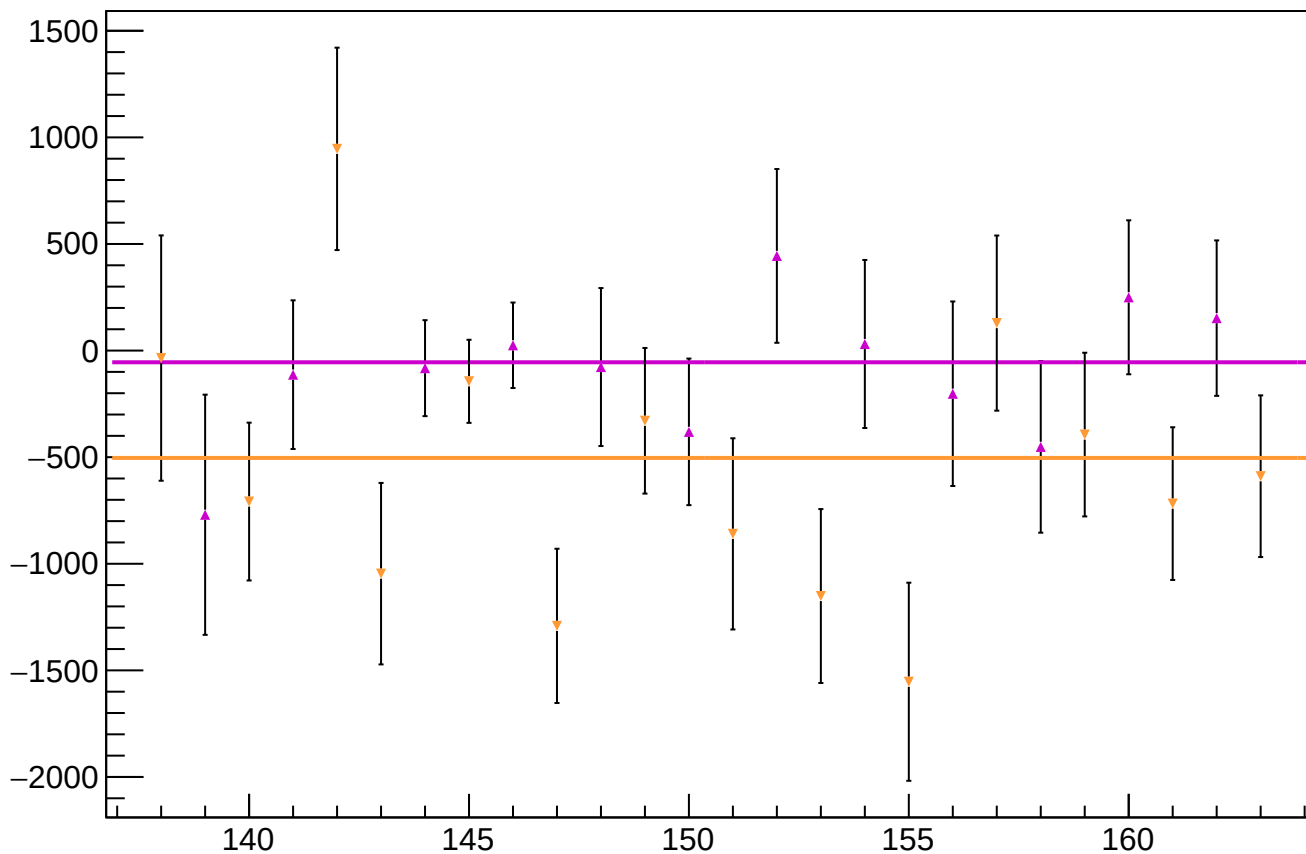
Left In: 56.117+/-0.013  $\chi^2/\text{NDF}$ :375943.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.299+/-0.009  $\chi^2/\text{NDF}$ : 571802.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -503.586+/-97.169  $\chi^2/\text{NDF}$ : 31.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

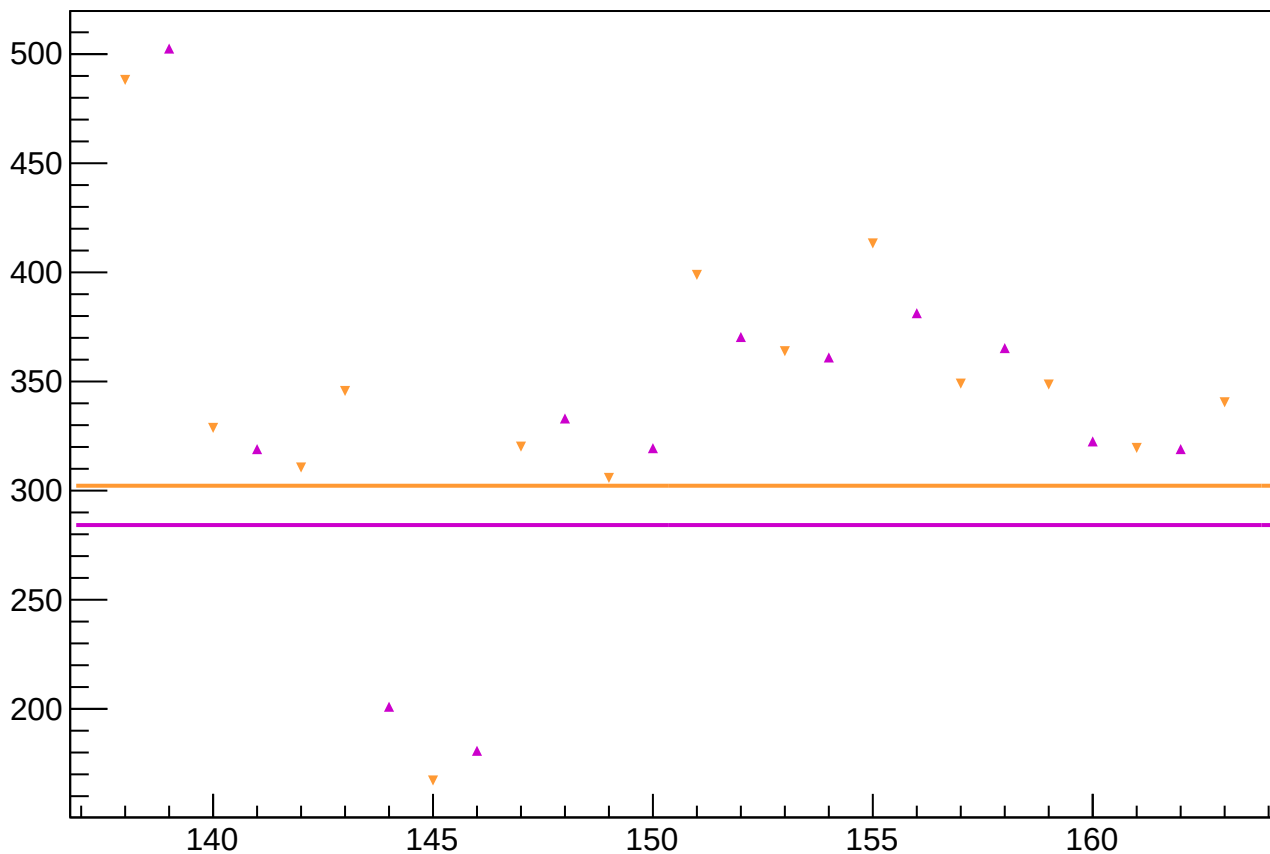
Left In: -54.897+/-94.956  $\chi^2/\text{NDF}$ : 6.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -274.074+/-67.913  $\chi^2/\text{NDF}$ : 48.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 302.245+/-0.069  $\chi^2/\text{NDF}$ :1539271.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 284.223+/-0.067  $\chi^2/\text{NDF}$ :1569818.8/11

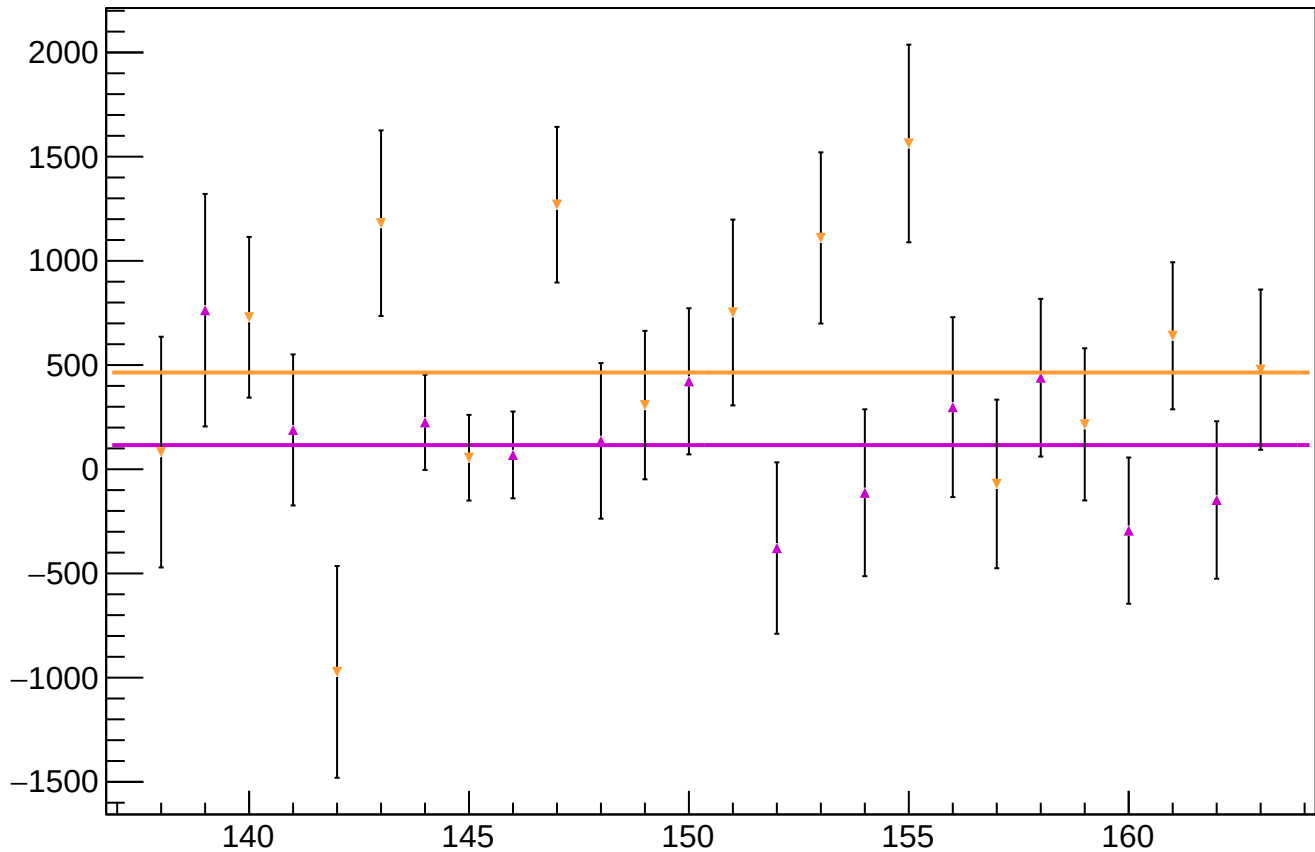
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 293.026+/-0.048  $\chi^2/\text{NDF}$ : 3144283.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 464.230+/-99.299  $\chi^2/\text{NDF}$ :31.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

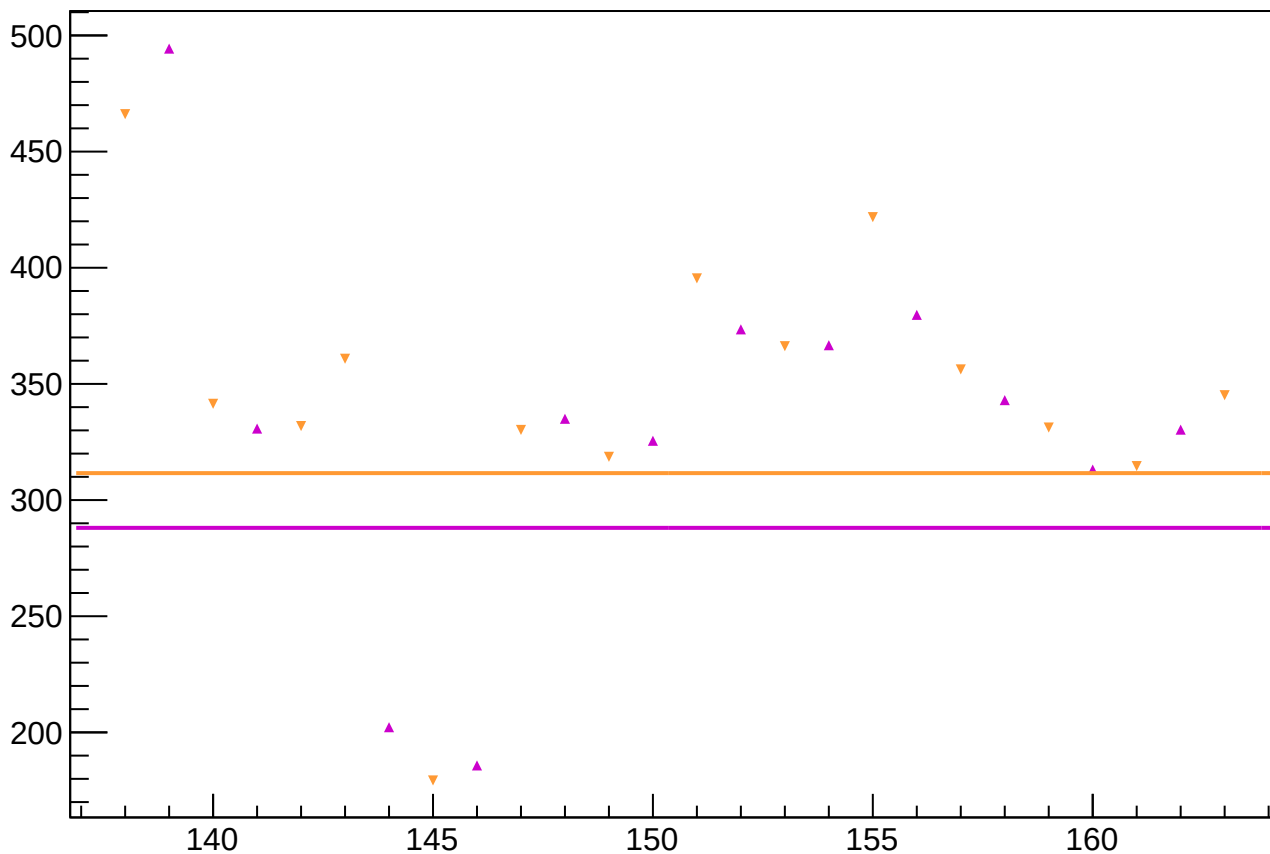
Left In: 115.828+/-96.232  $\chi^2/\text{NDF}$ :7.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 284.563+/-69.105  $\chi^2/\text{NDF}$ : 44.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 311.601+/-0.070  $\chi^2/\text{NDF}$ :1288263.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

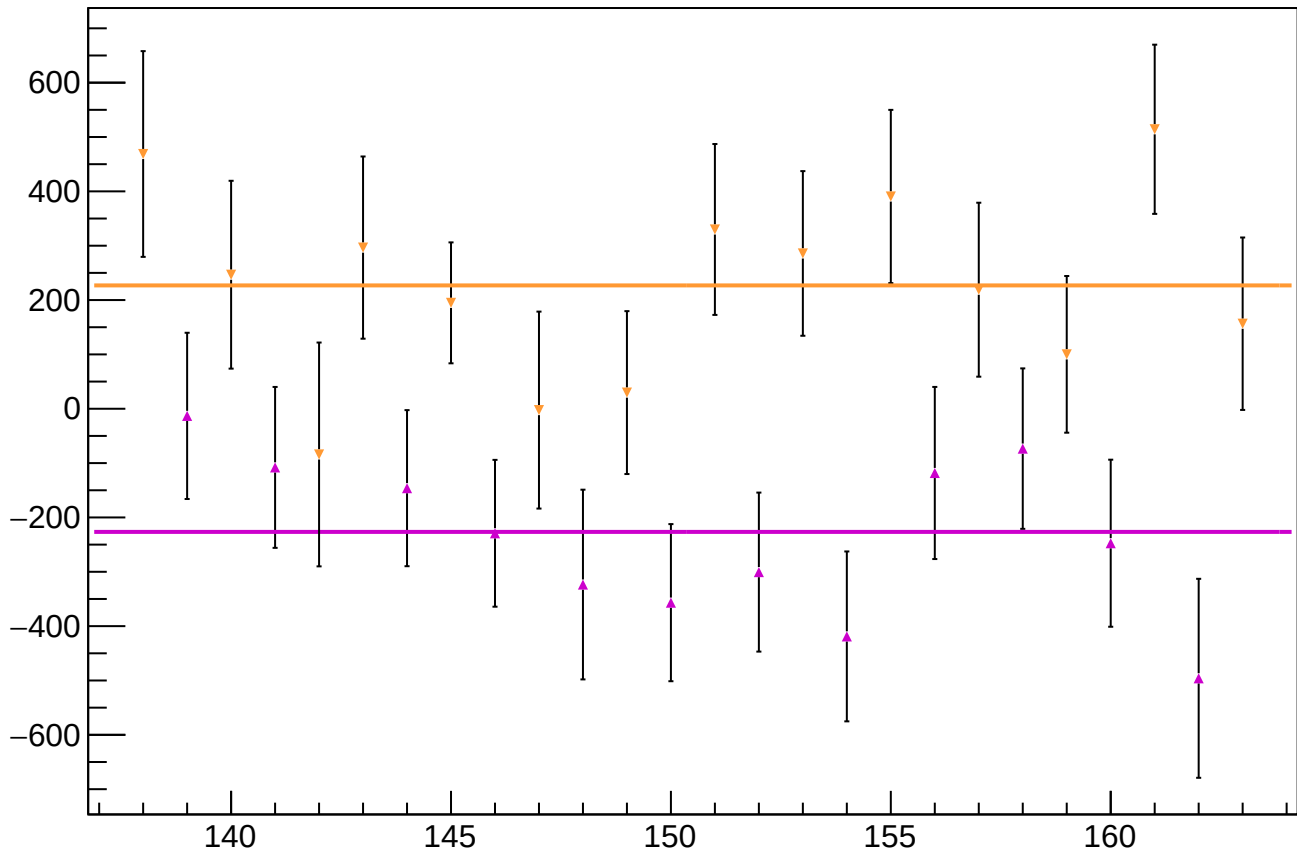
Left In: 288.041+/-0.068  $\chi^2/\text{NDF}$ :1451561.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 299.451+/-0.049  $\chi^2/\text{NDF}$ : 2797883.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 226.943+/-41.962  $\chi^2/\text{NDF}$ :13.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

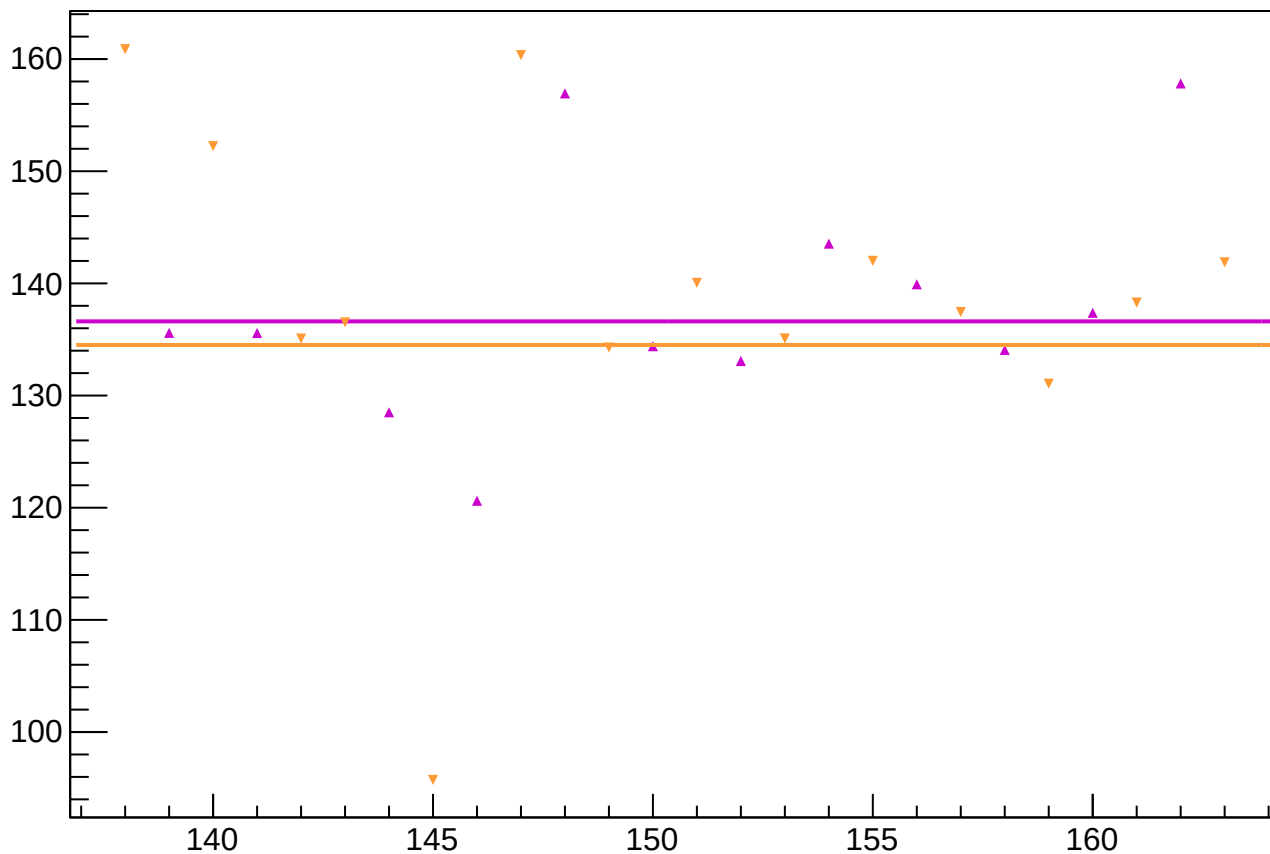
Left In: -226.595+/-43.939  $\chi^2/\text{NDF}$ :9.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.604+/-30.346  $\chi^2/\text{NDF}$ : 78.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 134.510+/-0.030  $\chi^2/\text{NDF}$ : 358038.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

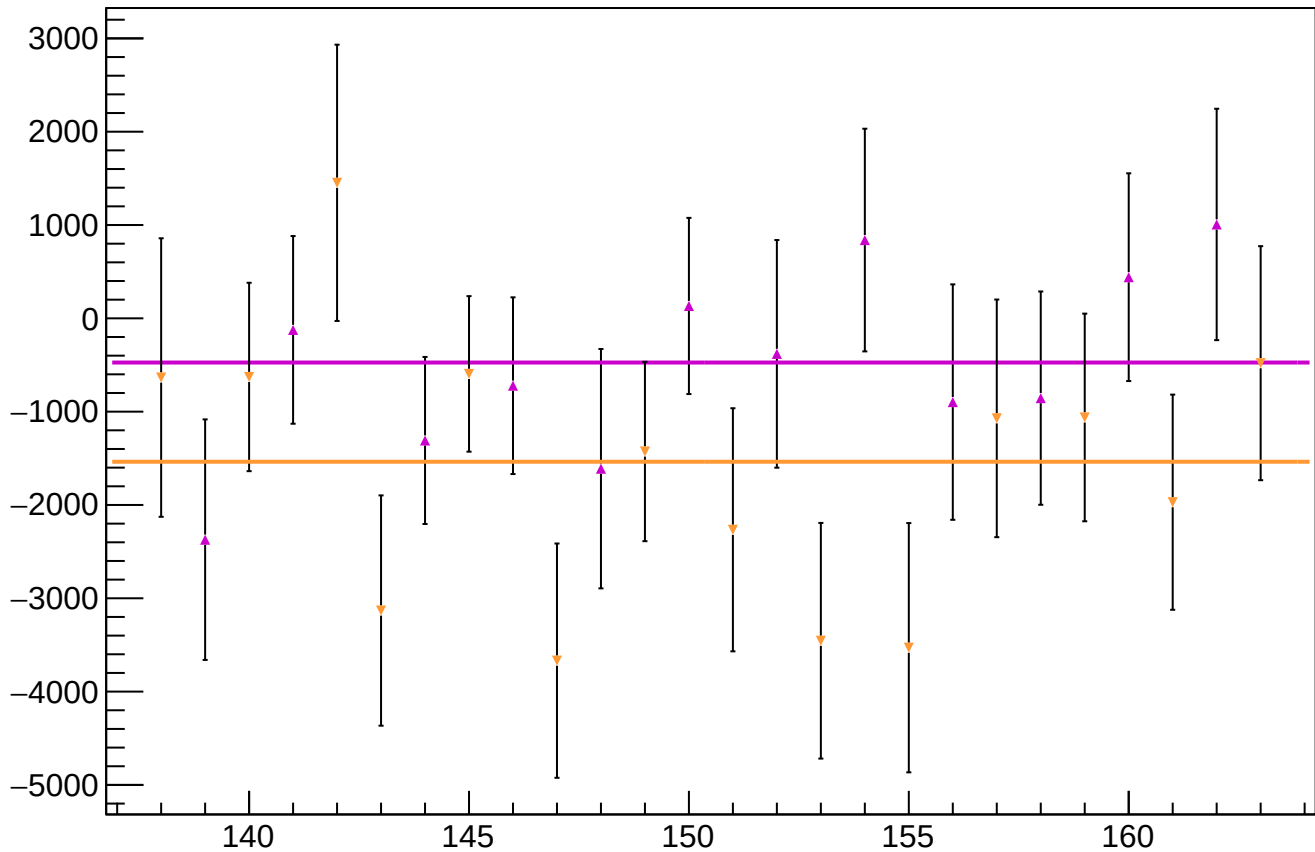
Left In: 136.614+/-0.031  $\chi^2/\text{NDF}$ : 95647.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 135.514+/-0.021  $\chi^2/\text{NDF}$ : 456082.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1536.698+/-311.734  $\chi^2/\text{NDF}$ : 17.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

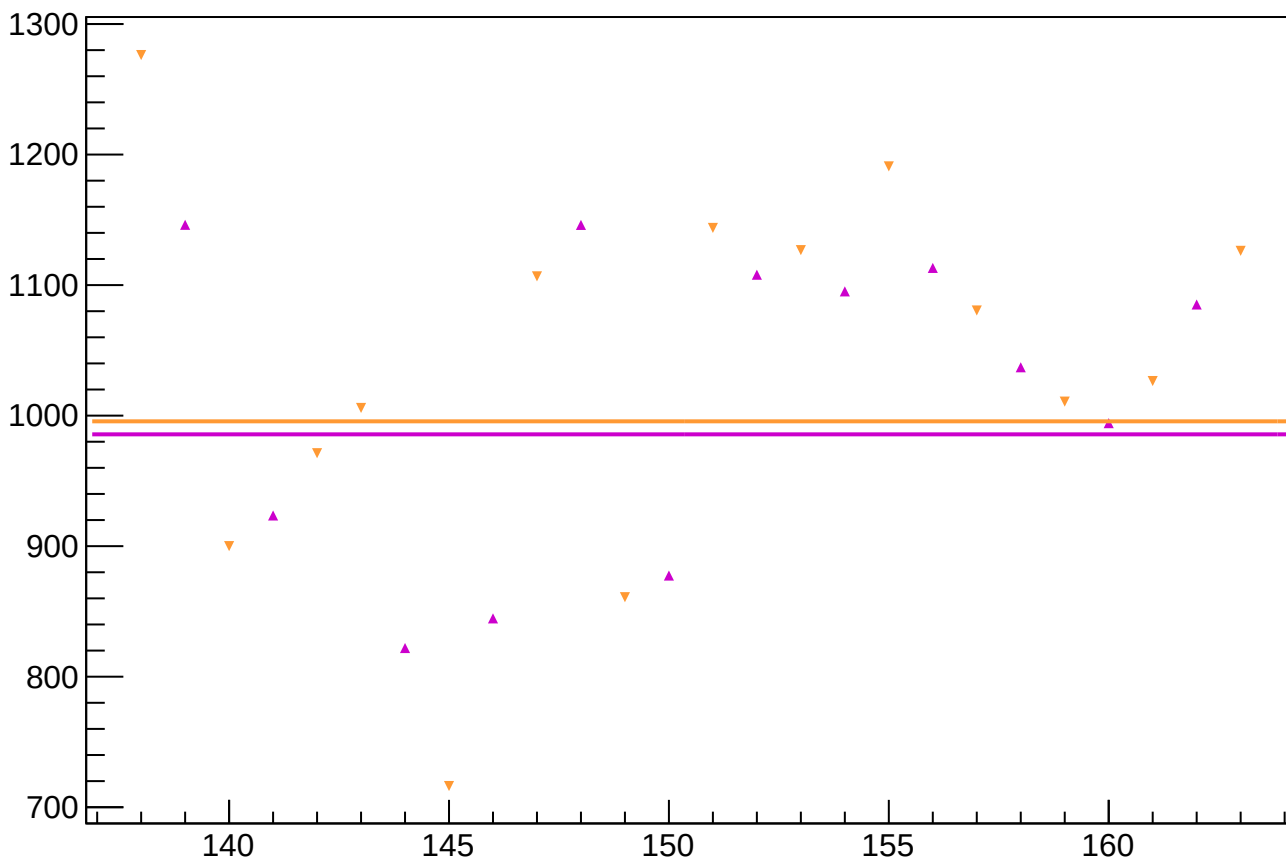
Left In: -473.661+/-317.650  $\chi^2/\text{NDF}$ : 8.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1015.172+/-222.491  $\chi^2/\text{NDF}$ : 30.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 995.628+/-0.220  $\chi^2/\text{NDF}$ : 491684.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

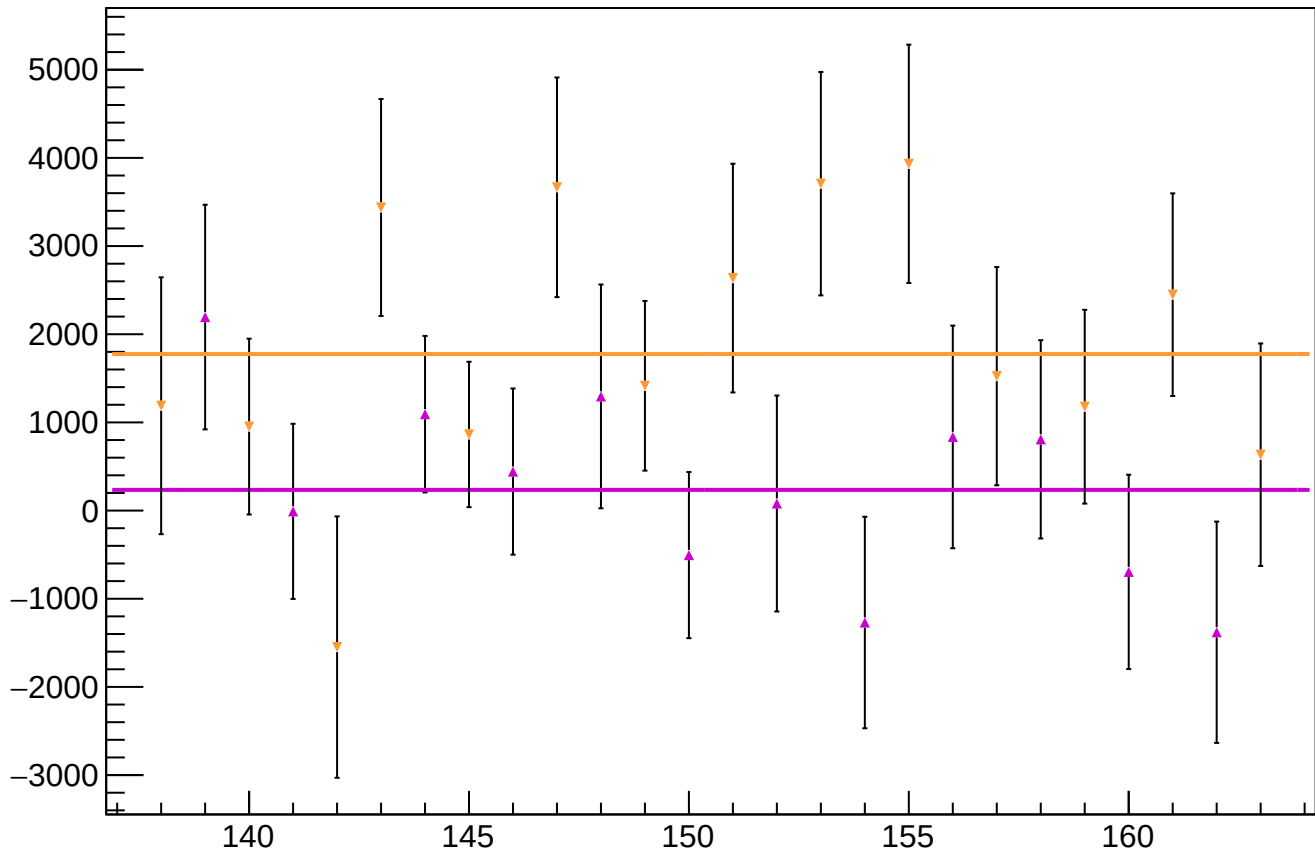
Left In: 985.661+/-0.225  $\chi^2/\text{NDF}$ : 281896.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 990.738+/-0.157  $\chi^2/\text{NDF}$ : 774583.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1775.402+/-309.782  $\chi^2/\text{NDF}$ :18.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

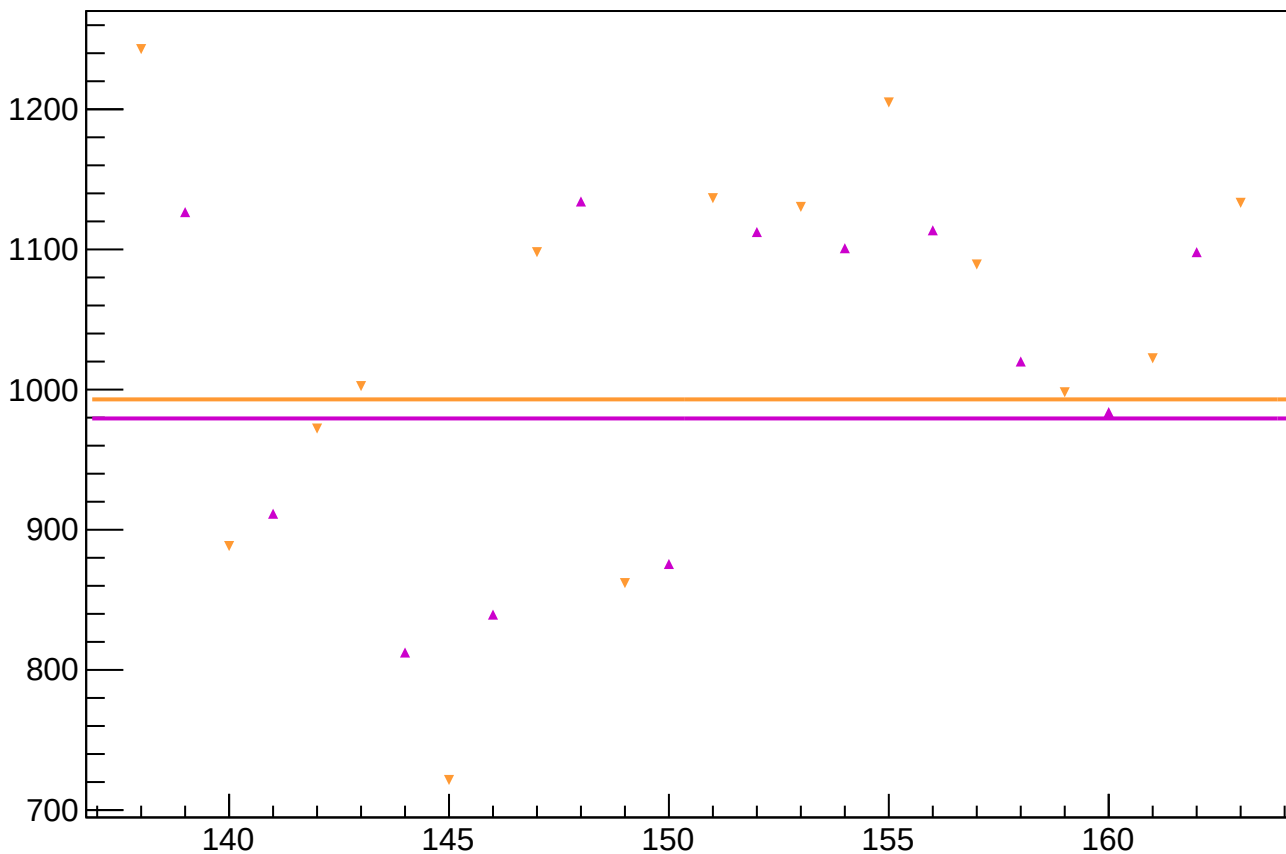
Left In: 234.702+/-316.052  $\chi^2/\text{NDF}$ :9.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1020.486+/-221.232  $\chi^2/\text{NDF}$ : 39.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 993.018+/-0.219  $\chi^2/\text{NDF}$ : 485054.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 979.412+/-0.223  $\chi^2/\text{NDF}$ : 292239.5/11

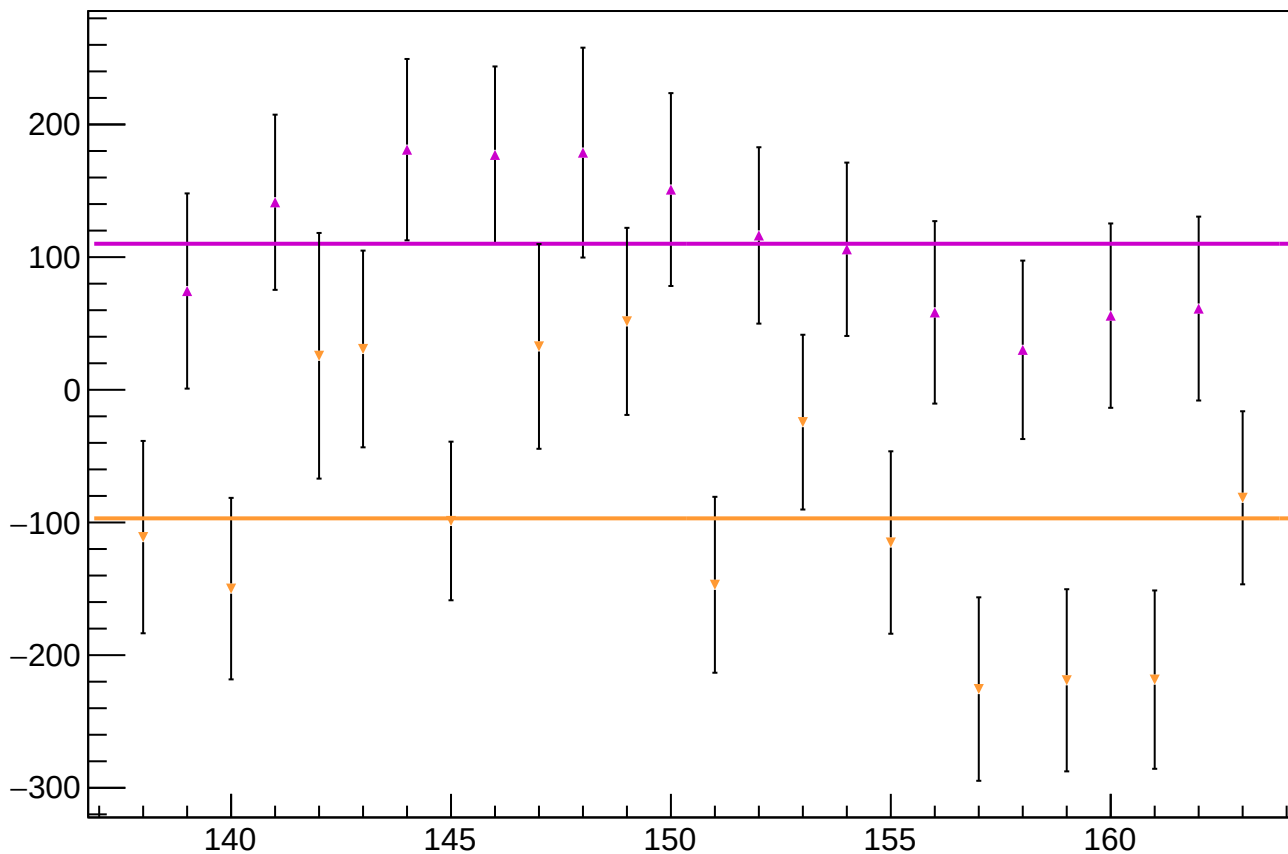
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 986.352+/-0.156  $\chi^2/\text{NDF}$ : 779184.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_sam\_13\_57\_dd\_mean vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-96.898 \pm 18.573$   $\chi^2/\text{NDF}$ : 24.4/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

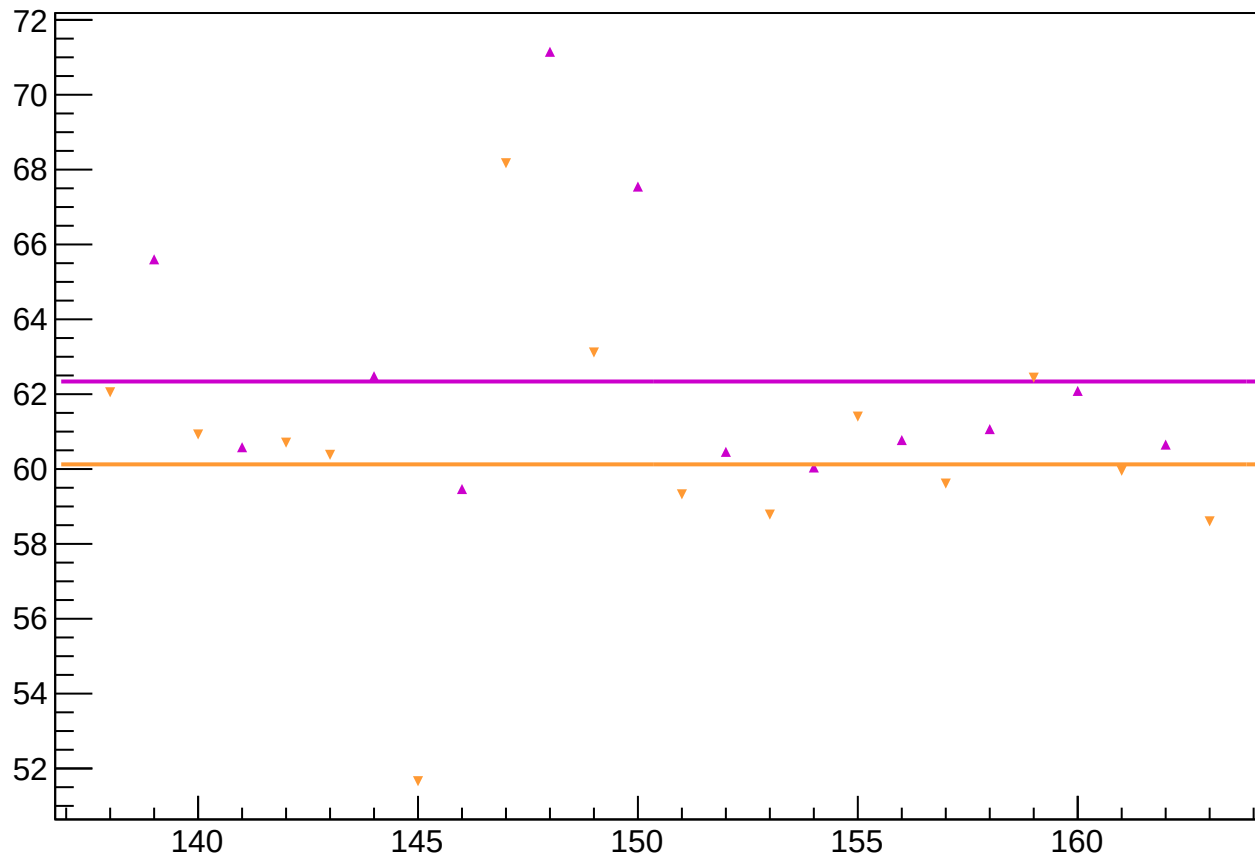
Left In:  $110.085 \pm 19.956$   $\chi^2/\text{NDF}$ : 6.7/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.827 \pm 13.596$   $\chi^2/\text{NDF}$ : 88.8/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 60.125+/-0.013  $\chi^2/\text{NDF}$ : 72527.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

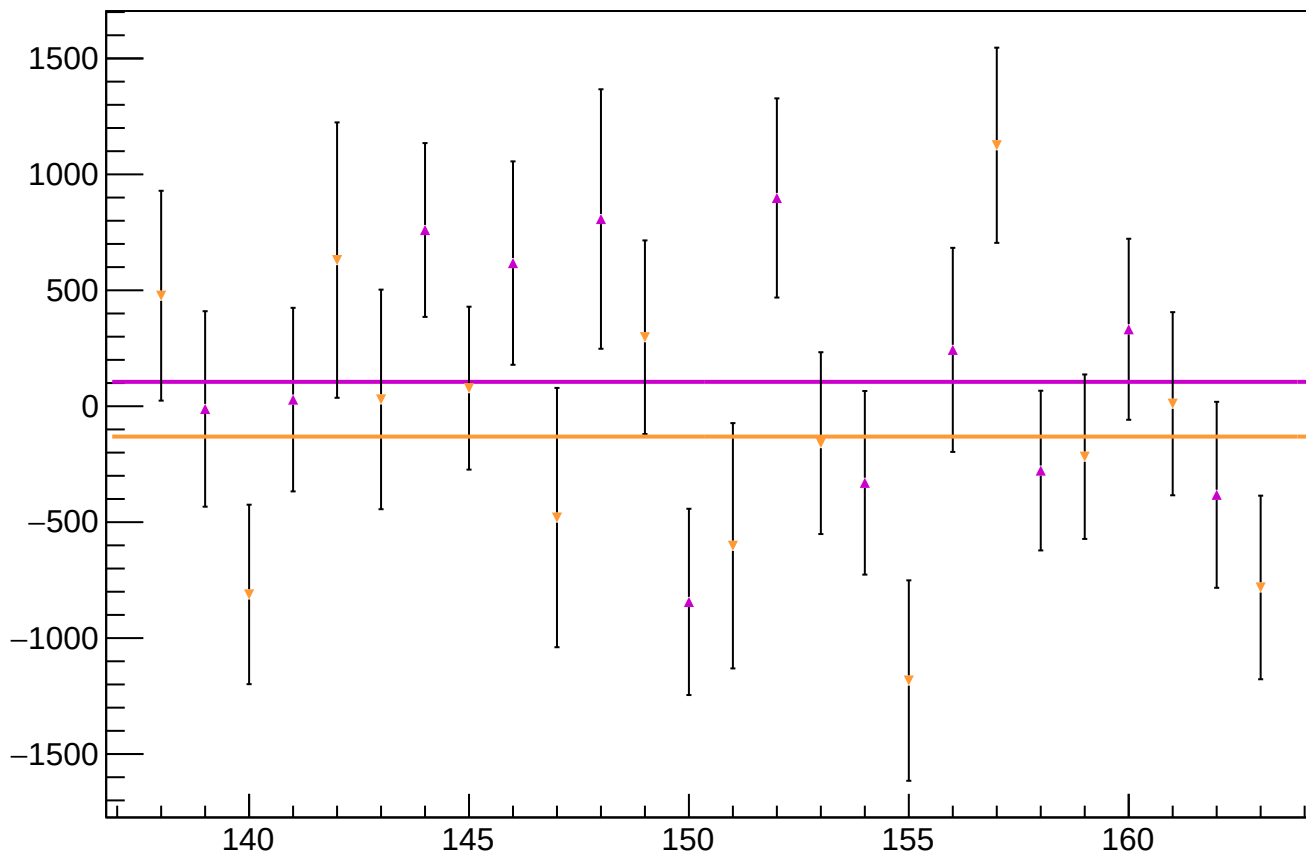
Left In: 62.339+/-0.014  $\chi^2/\text{NDF}$ : 51183.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.153+/-0.010  $\chi^2/\text{NDF}$ : 136900.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -130.990+/-113.439  $\chi^2/\text{NDF}$ : 27.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

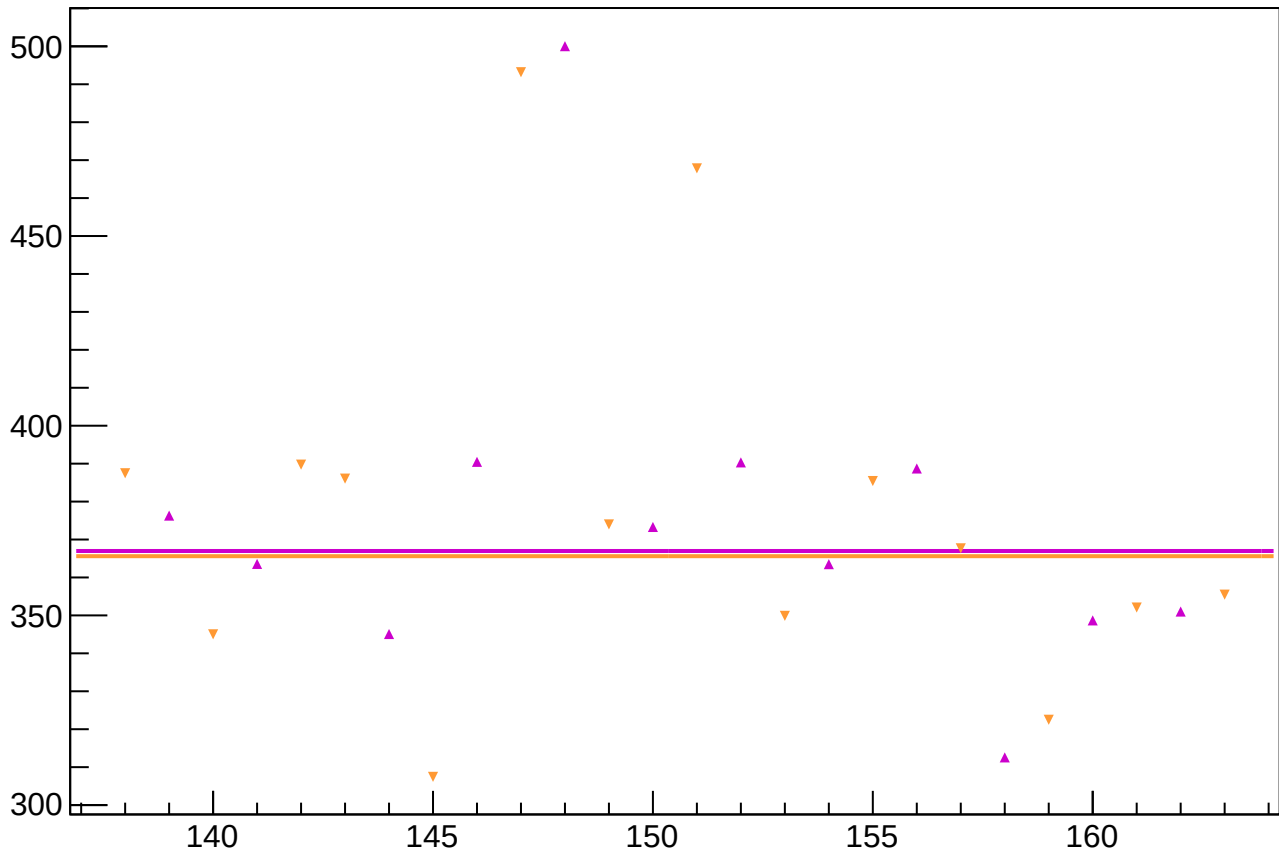
Left In: 105.181+/-117.943  $\chi^2/\text{NDF}$ : 19.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.499+/-81.759  $\chi^2/\text{NDF}$ : 48.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 365.608+/-0.080  $\chi^2/\text{NDF}$ : 292445.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

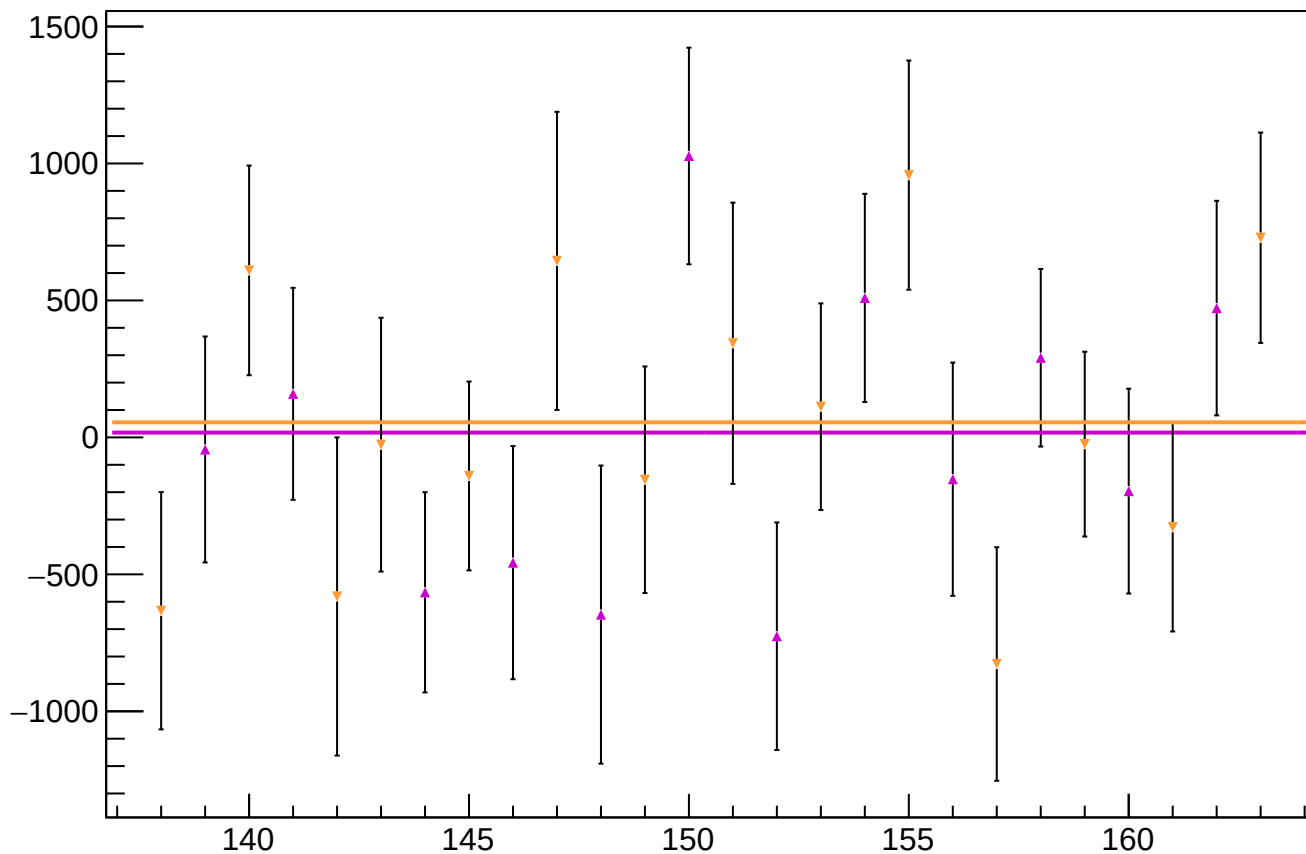
Left In: 366.978+/-0.083  $\chi^2/\text{NDF}$ : 195691.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 366.266+/-0.058  $\chi^2/\text{NDF}$ : 488277.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 55.056+/-110.474  $\chi^2/\text{NDF}$ : 21.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

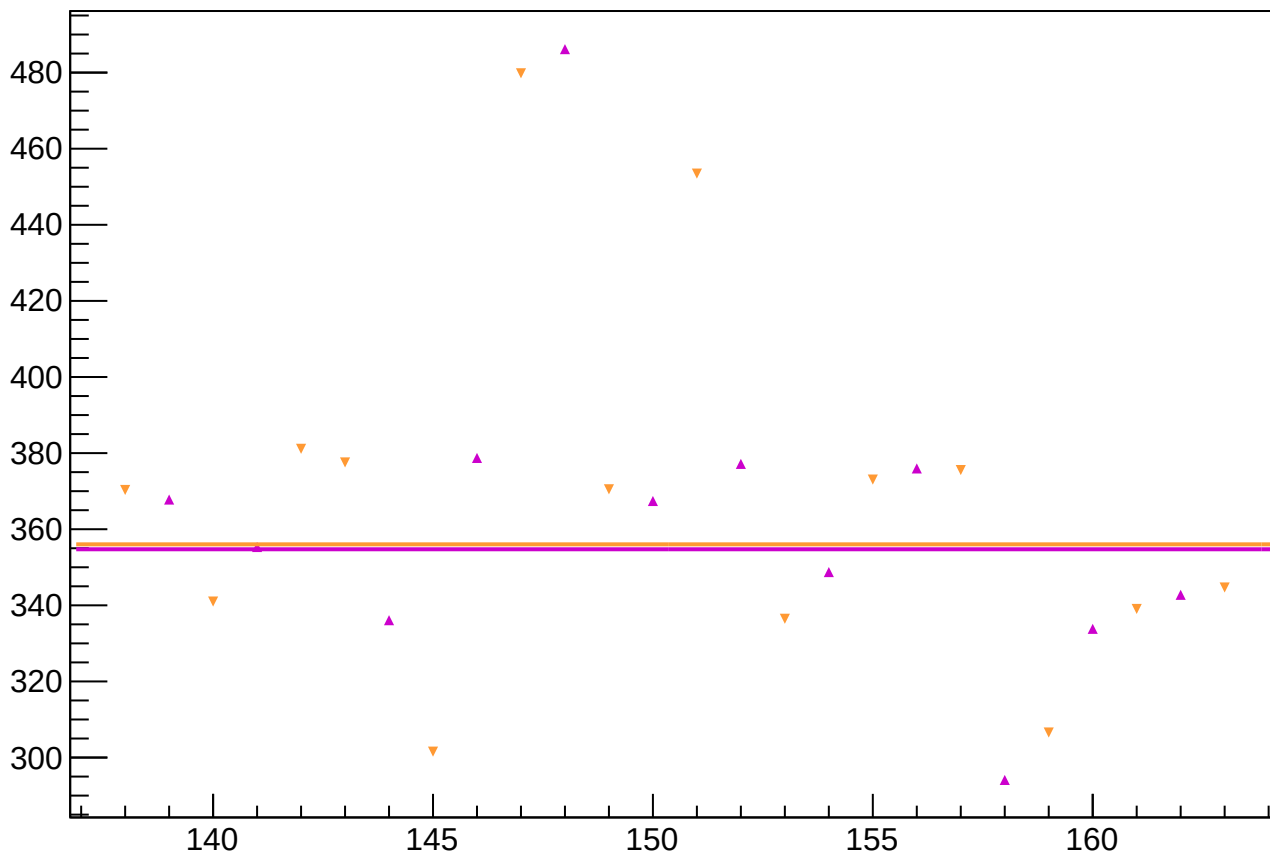
Left In: 17.592+/-114.129  $\chi^2/\text{NDF}$ : 19.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 36.933+/-79.377  $\chi^2/\text{NDF}$ : 40.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_13\_57\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 356.028+/-0.078  $\chi^2/\text{NDF}$ : 302847.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

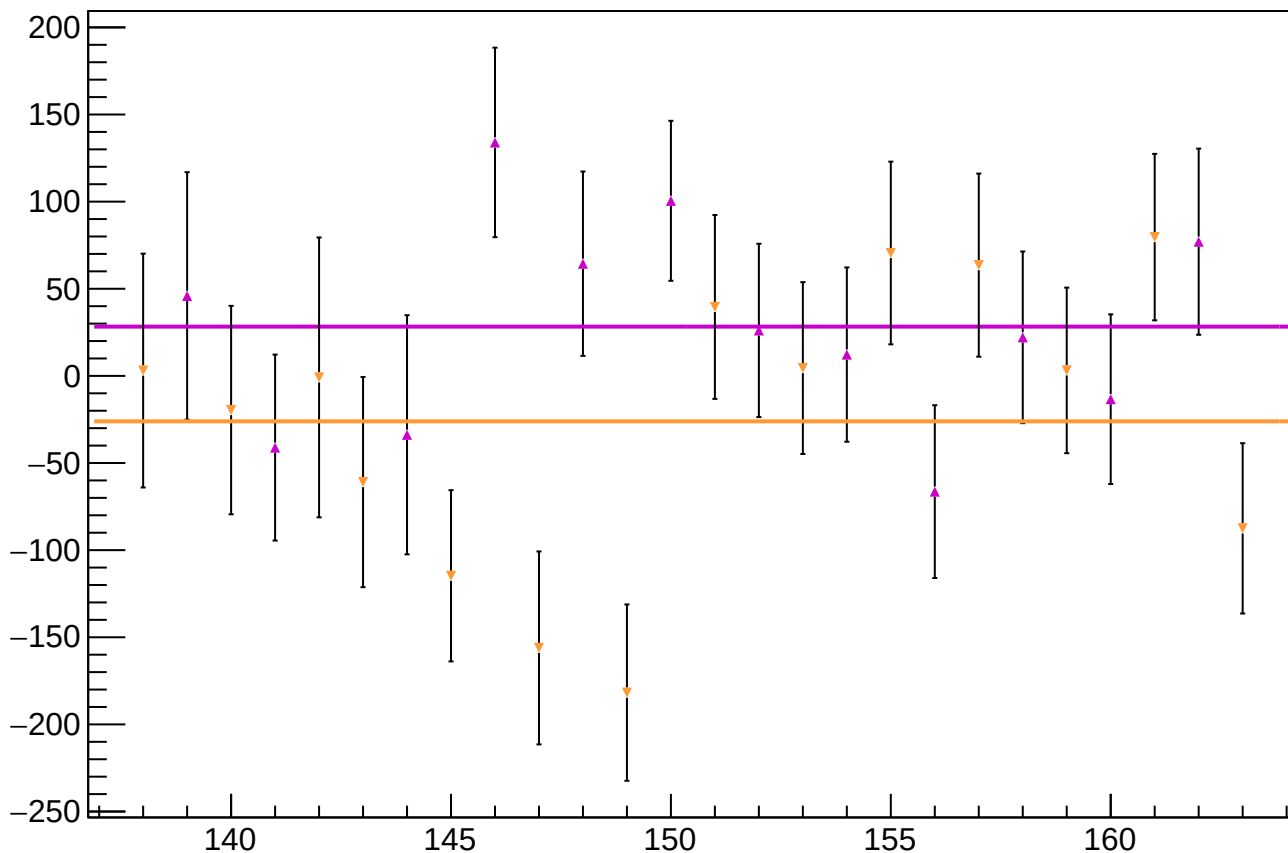
Left In: 354.731+/-0.081  $\chi^2/\text{NDF}$ : 221689.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 355.401+/-0.056  $\chi^2/\text{NDF}$ : 524671.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -26.076+/-14.345  $\chi^2/\text{NDF}$ : 34.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

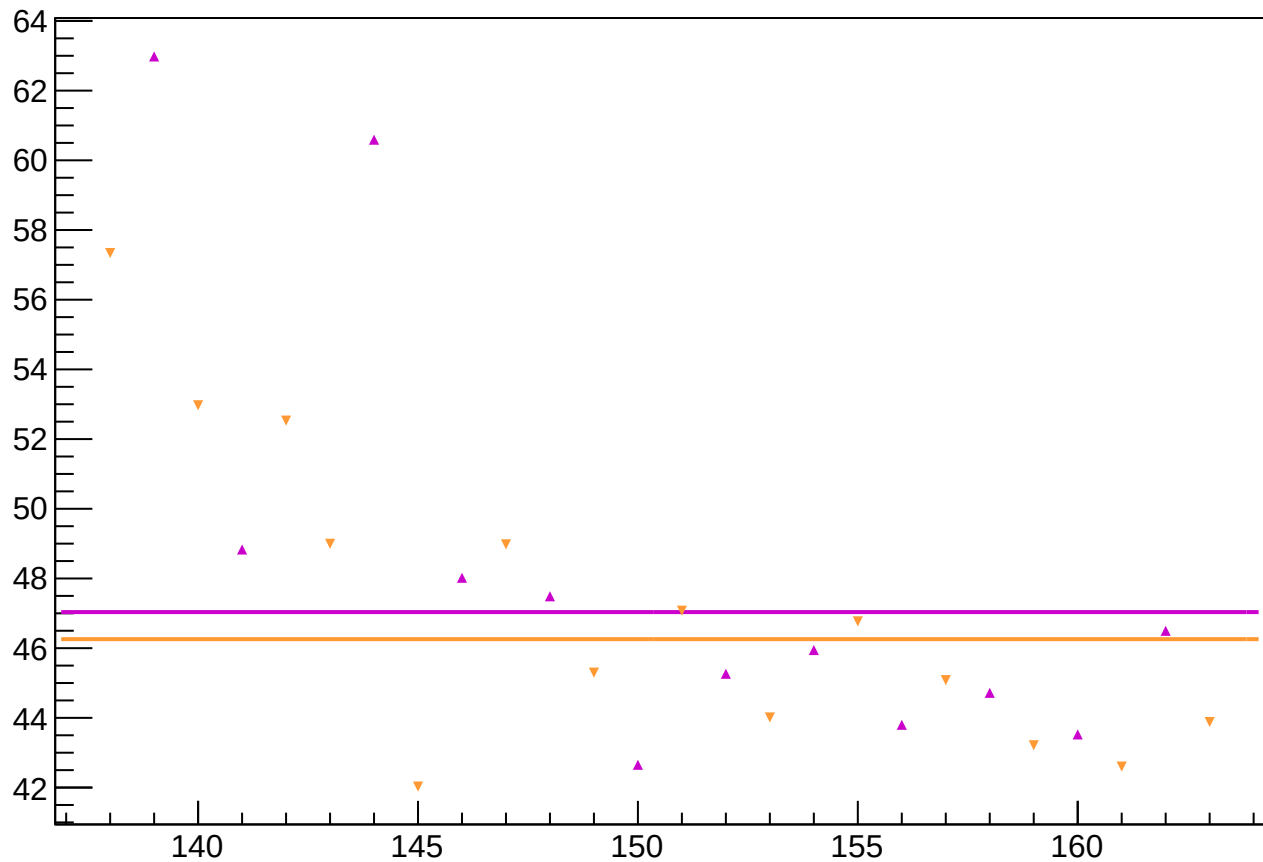
Left In: 28.283+/-15.202  $\chi^2/\text{NDF}$ : 14.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.471+/-10.433  $\chi^2/\text{NDF}$ : 55.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 46.259+/-0.010  $\chi^2/\text{NDF}$ : 146914.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 47.035+/-0.011  $\chi^2/\text{NDF}$ : 227180.3/11

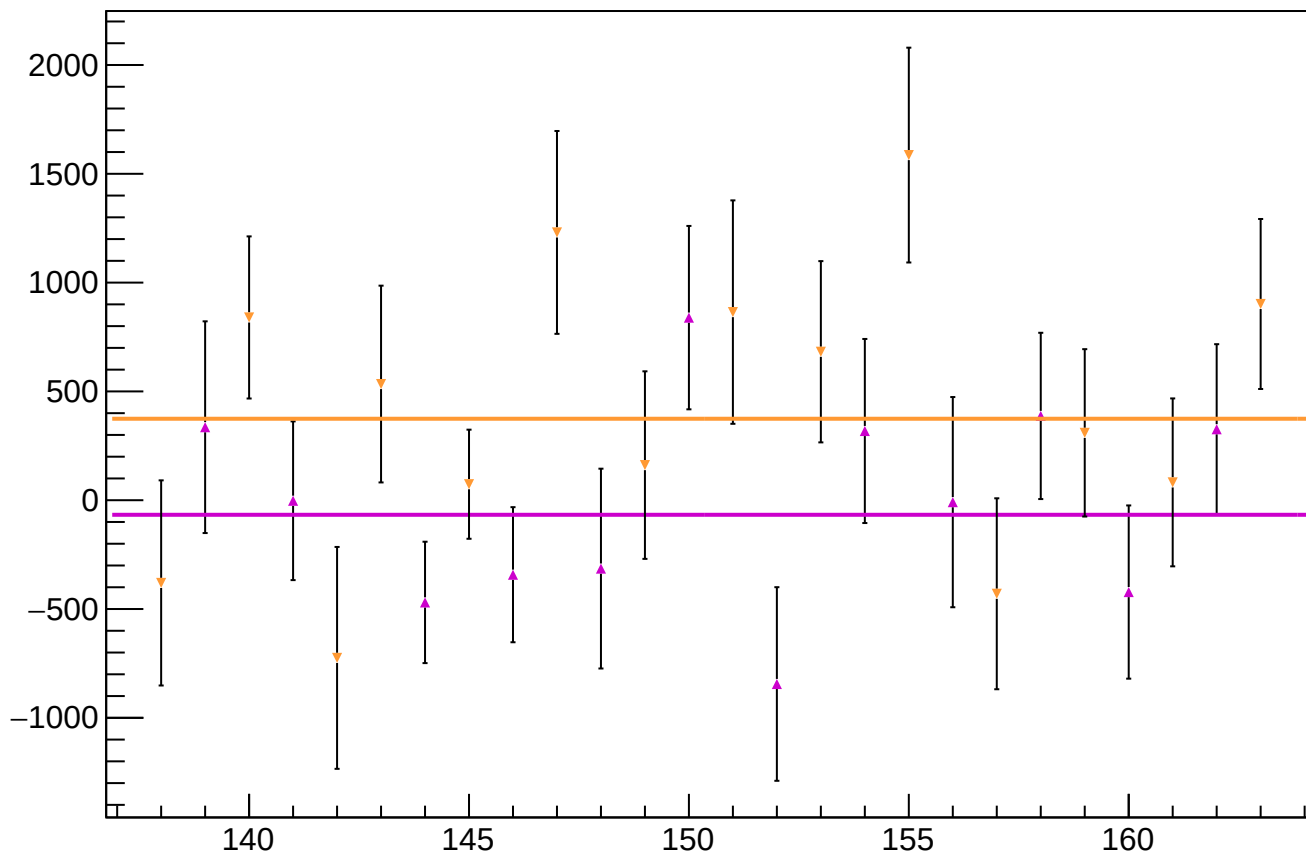
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 46.625+/-0.007  $\chi^2/\text{NDF}$ : 376853.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_37\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 374.388+/-108.313  $\chi^2/\text{NDF}$ : 27.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

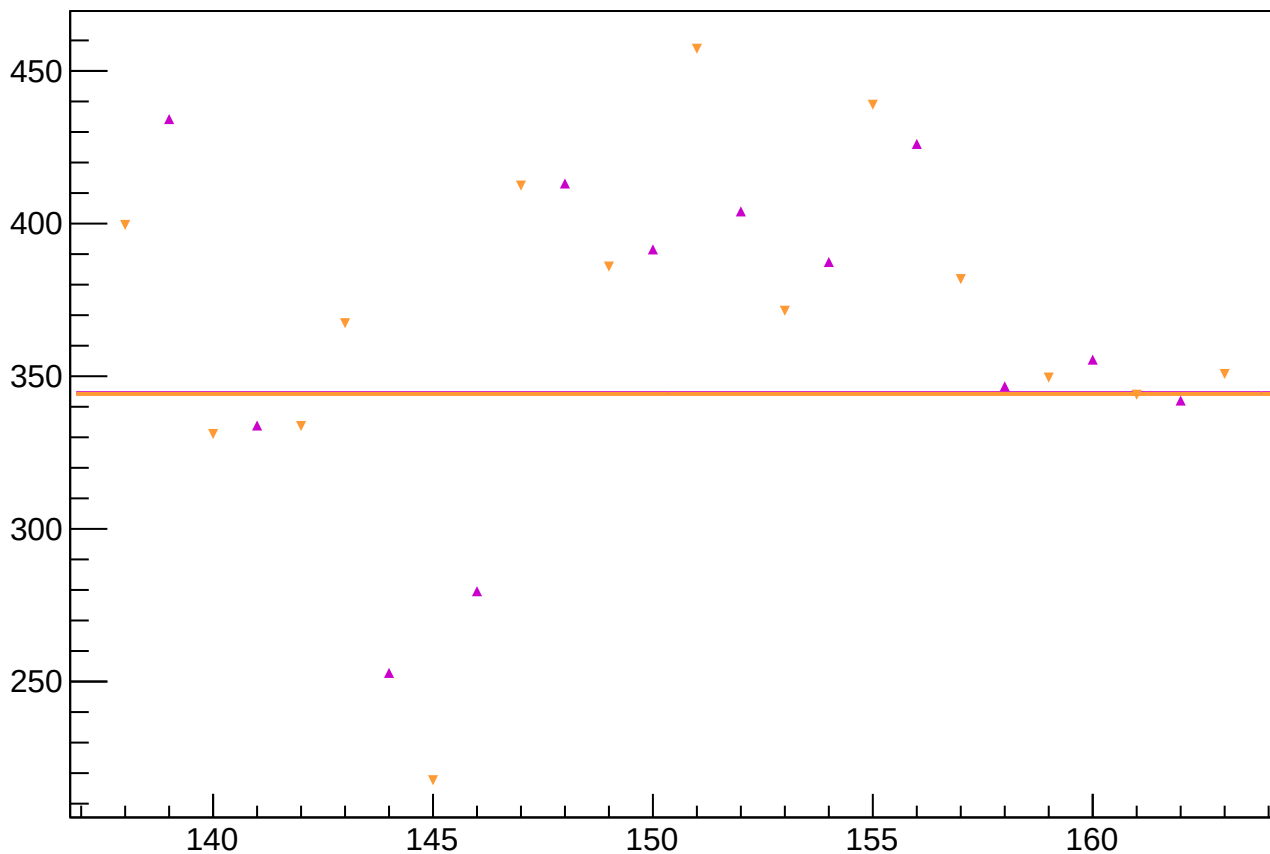
Left In: -66.986+/-111.808  $\chi^2/\text{NDF}$ : 15.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 160.707+/-77.795  $\chi^2/\text{NDF}$ : 50.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_37\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 344.205+/-0.077  $\chi^2/\text{NDF}$ : 802163.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

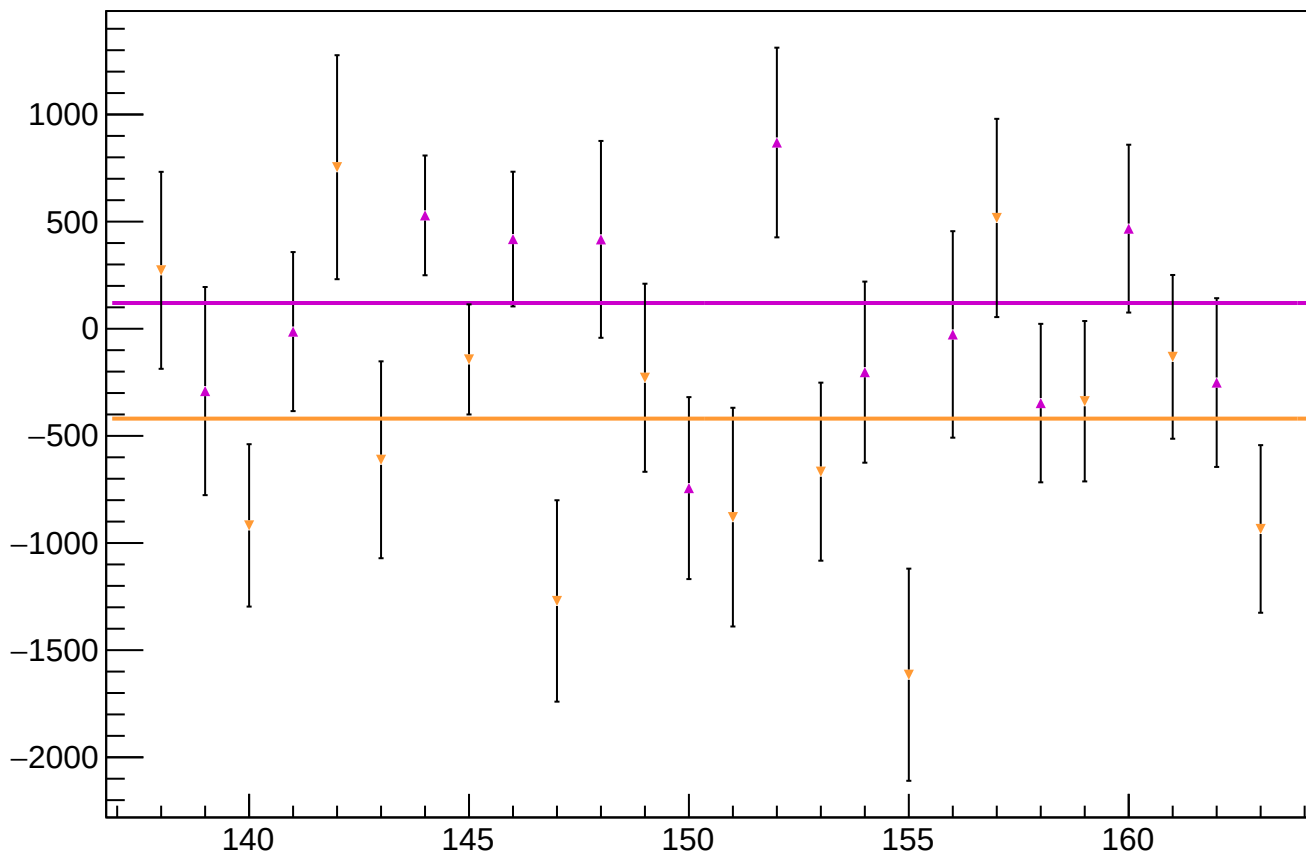
Left In: 344.456+/-0.079  $\chi^2/\text{NDF}$ : 557972.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 344.326+/-0.055  $\chi^2/\text{NDF}$ : 1360141.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_37\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -419.412 $\pm$ 109.191  $\chi^2$ /NDF: 27.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

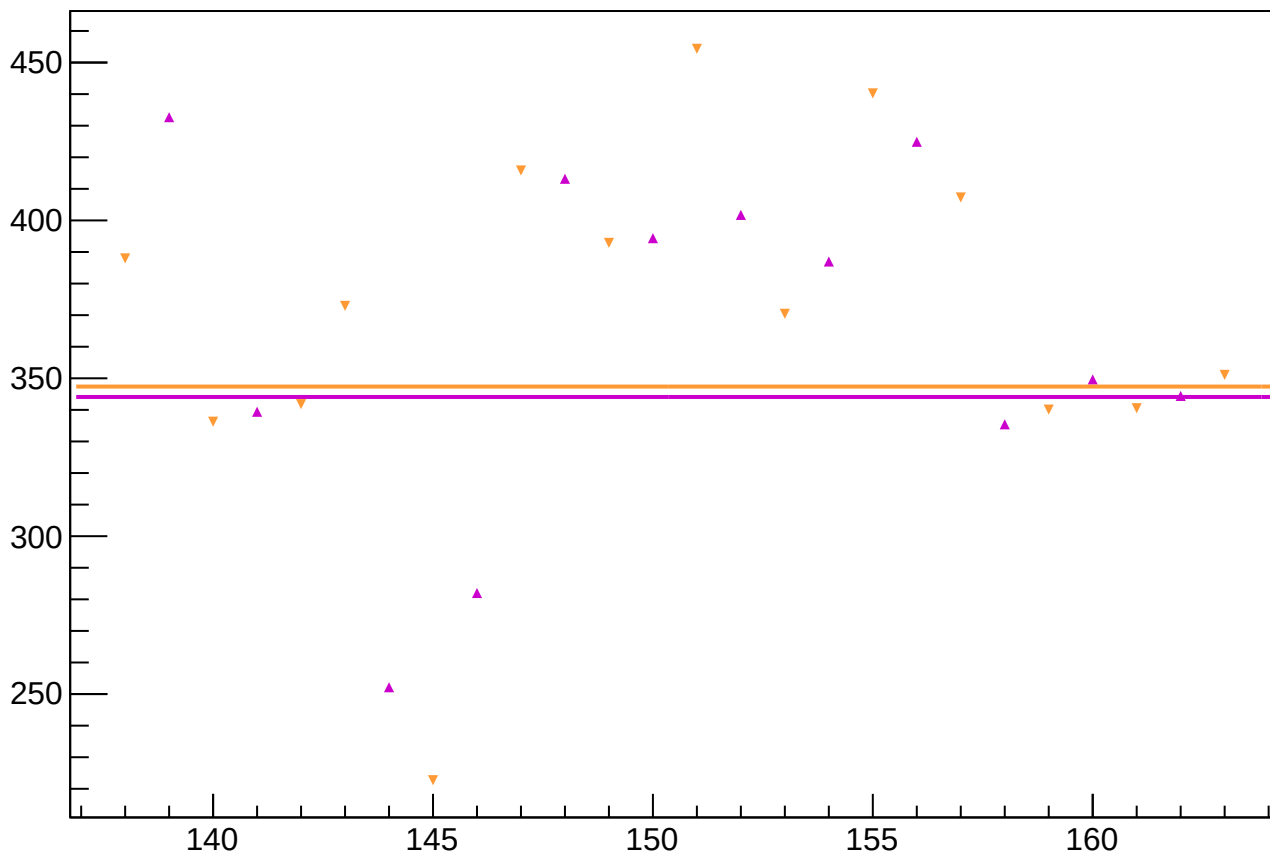
Left In: 120.155 $\pm$ 111.802  $\chi^2$ /NDF: 15.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -156.001 $\pm$ 78.116  $\chi^2$ /NDF: 54.5/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_37\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 347.379+/-0.077  $\chi^2/\text{NDF}$ : 758157.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

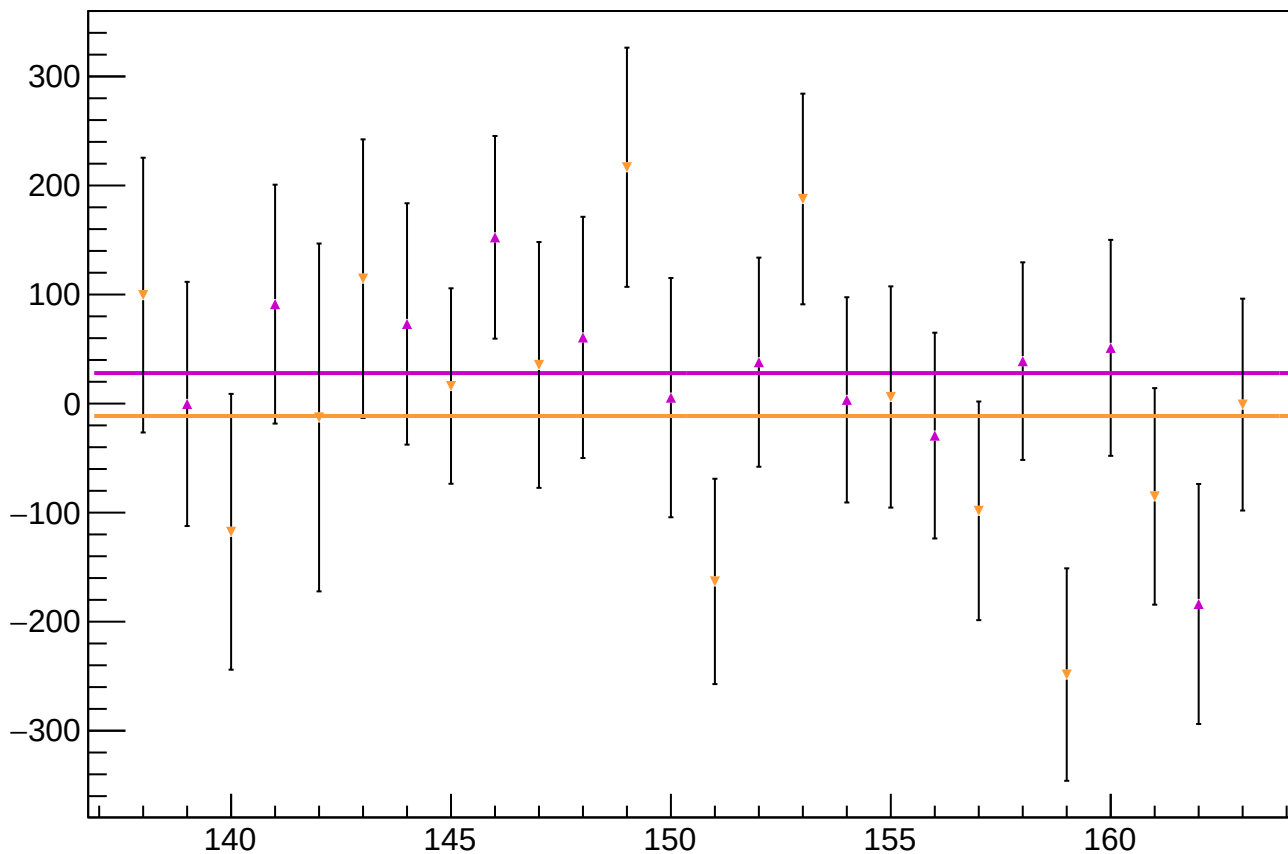
Left In: 344.089+/-0.079  $\chi^2/\text{NDF}$ : 546995.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 345.773+/-0.055  $\chi^2/\text{NDF}$ : 1306039.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -11.396+/-28.377  $\chi^2/\text{NDF}$ : 21.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

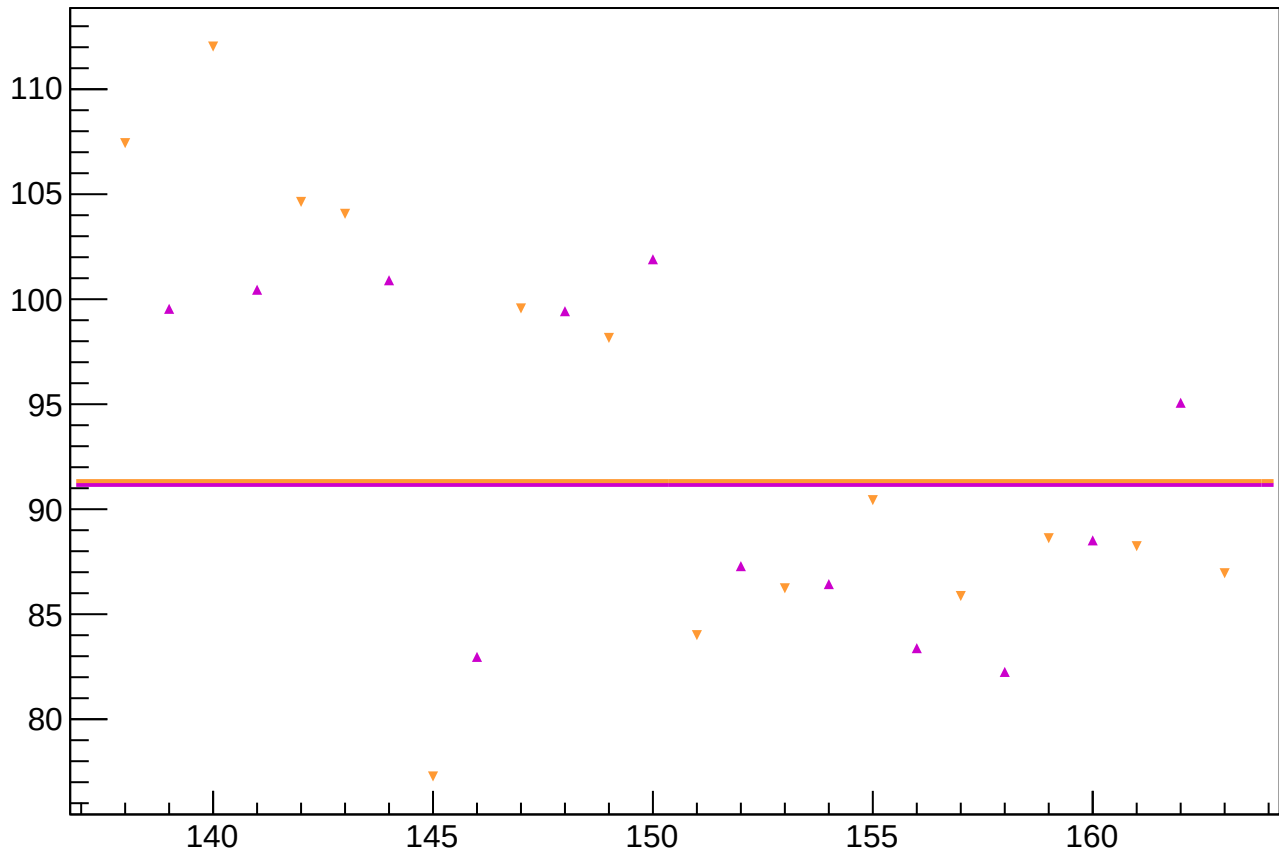
Left In: 27.977+/-29.290  $\chi^2/\text{NDF}$ : 6.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 7.667+/-20.381  $\chi^2/\text{NDF}$ : 28.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 91.339+/-0.020  $\chi^2/\text{NDF}$ :218988.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

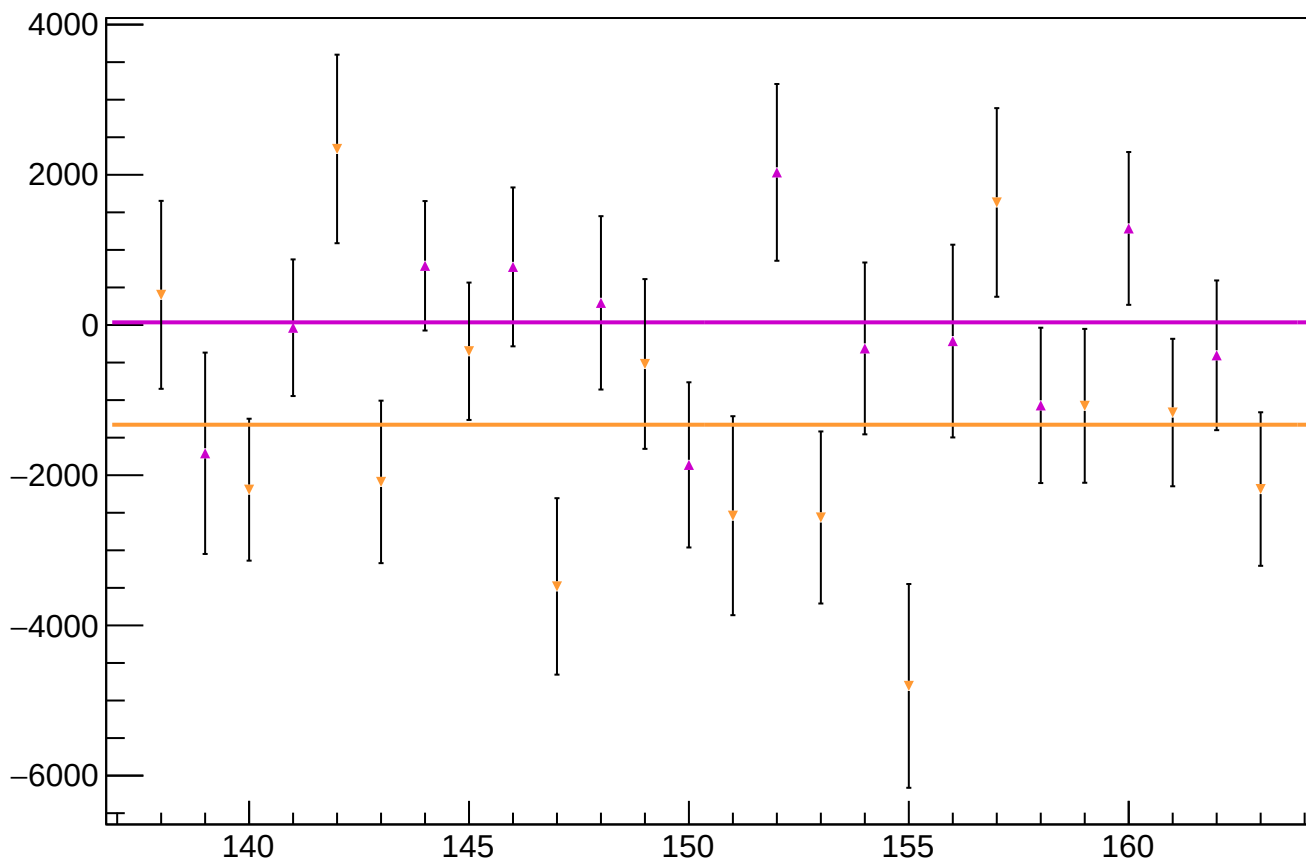
Left In: 91.159+/-0.021  $\chi^2/\text{NDF}$ :132171.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.252+/-0.014  $\chi^2/\text{NDF}$ : 351198.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1327.589+/-296.073  $\chi^2/\text{NDF}$ : 31.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

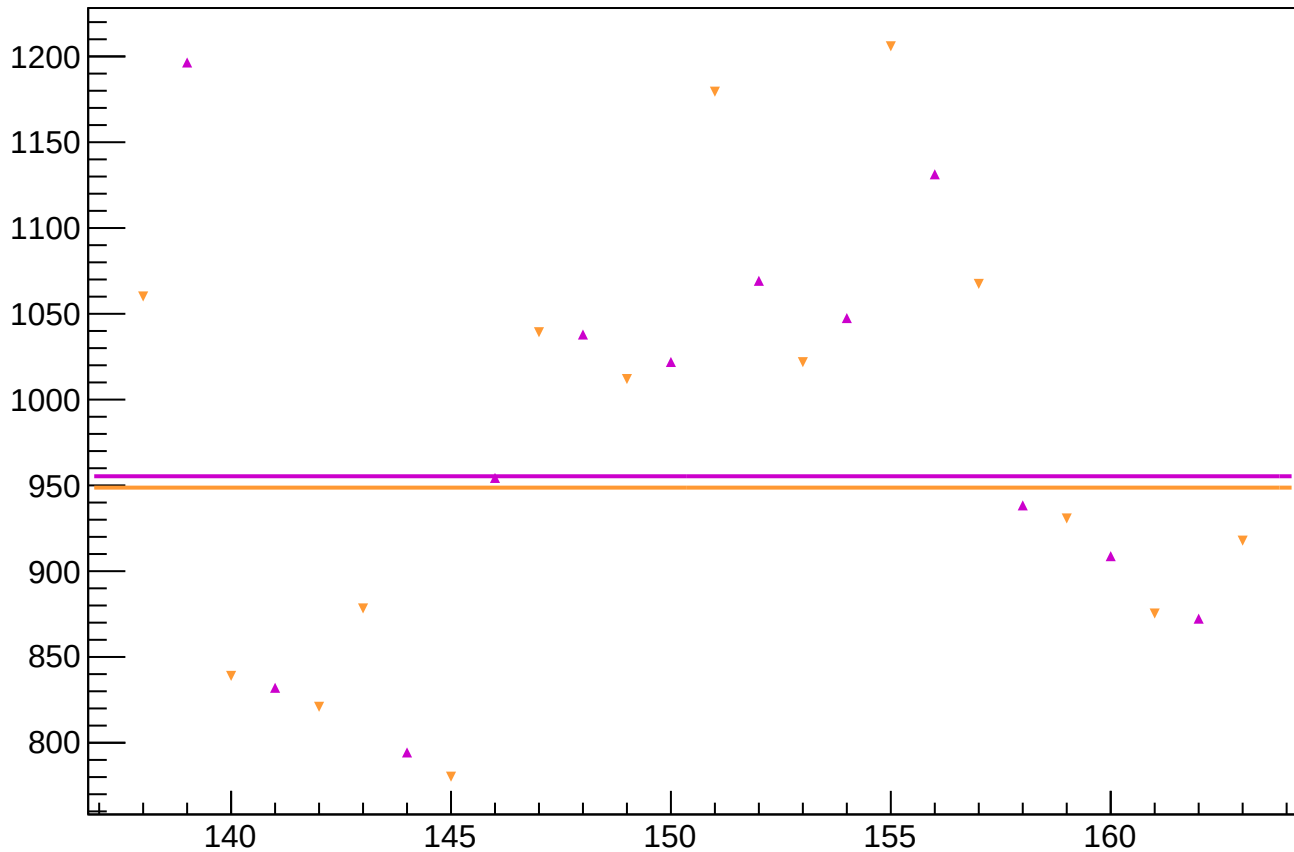
Left In: 35.395+/-307.394  $\chi^2/\text{NDF}$ : 11.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -671.656+/-213.245  $\chi^2/\text{NDF}$ : 53.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 948.699+/-0.209  $\chi^2/\text{NDF}$ : 330253.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 955.322+/-0.217  $\chi^2/\text{NDF}$ : 276723.6/11

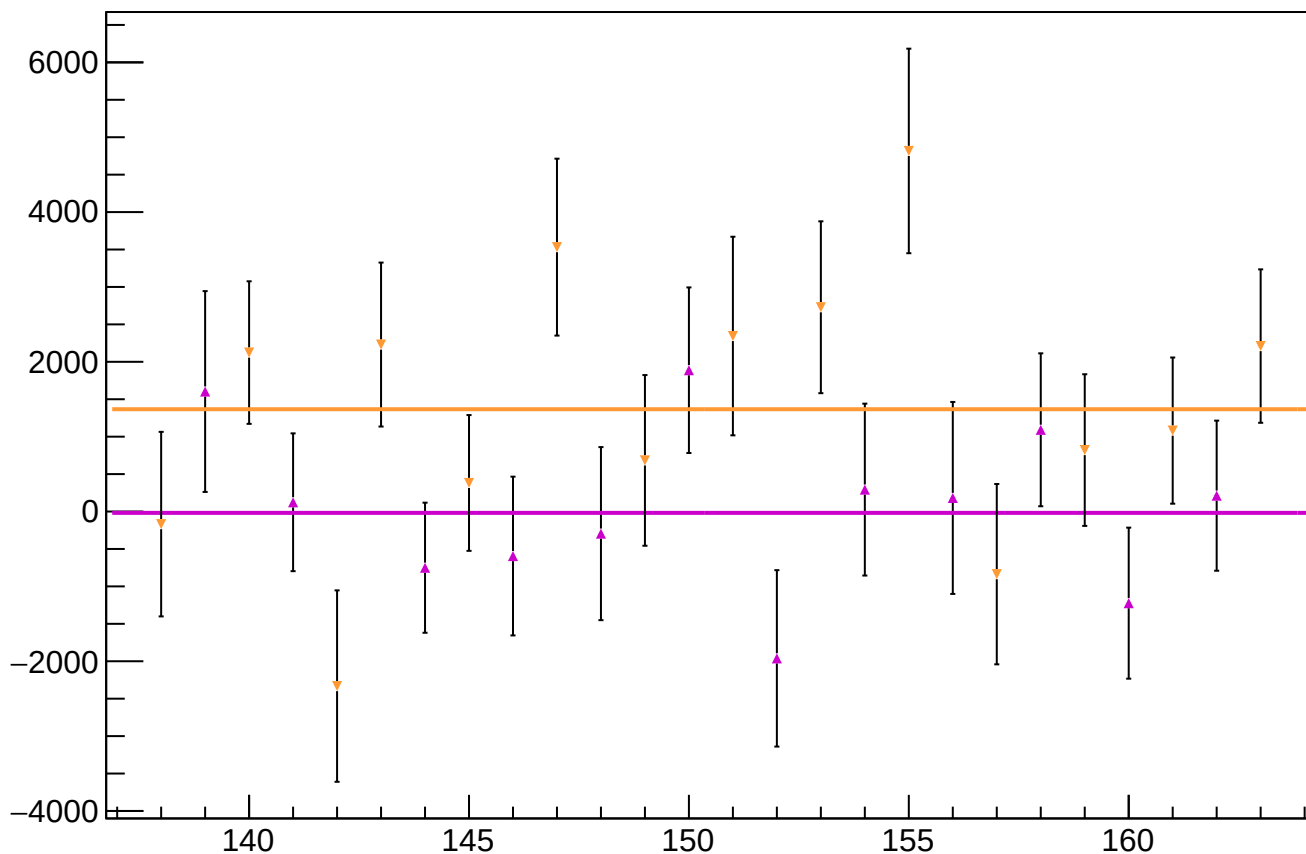
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 951.886+/-0.151  $\chi^2/\text{NDF}$ : 607458.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_24\_68\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1366.667+/-295.701  $\chi^2/\text{NDF}$ : 28.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

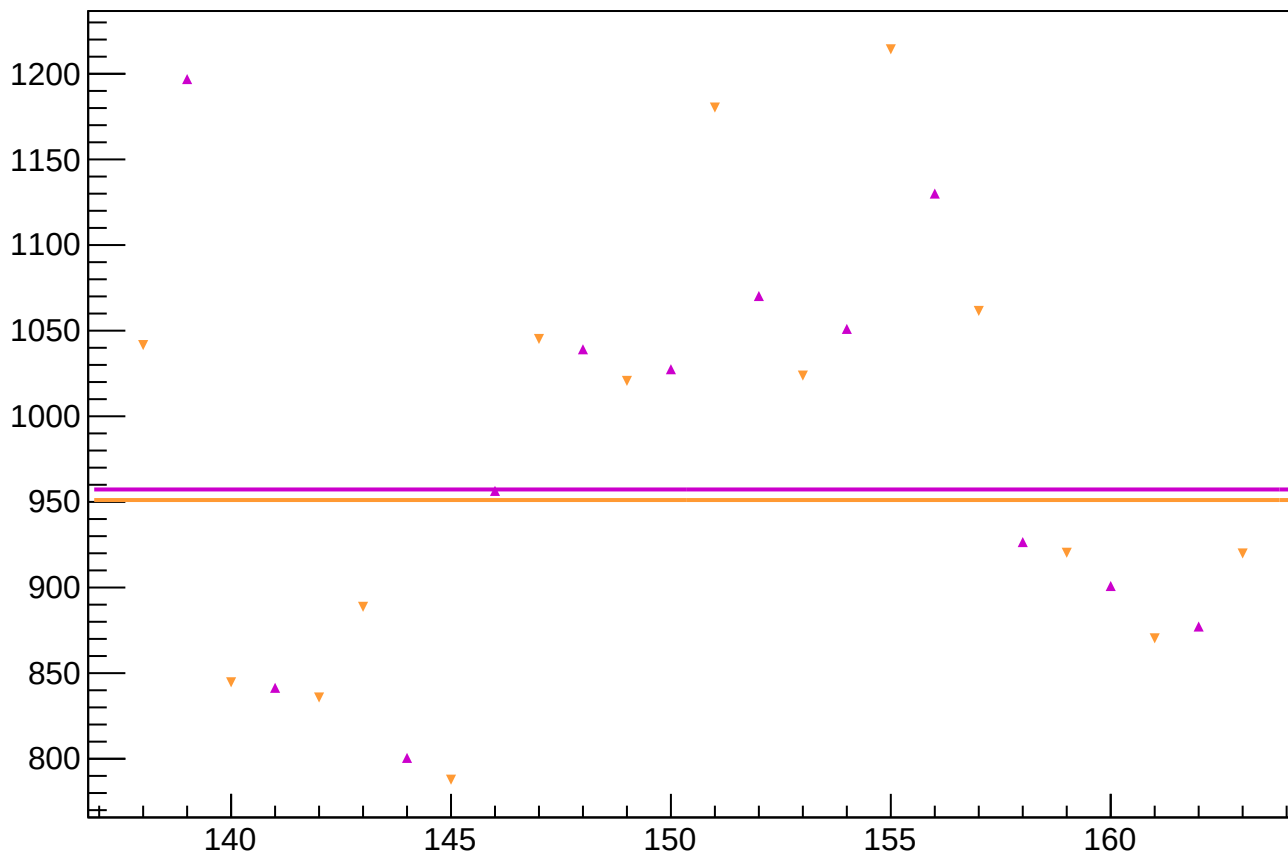
Left In: -17.907+/-308.028  $\chi^2/\text{NDF}$ : 11.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 702.641+/-213.317  $\chi^2/\text{NDF}$ : 50.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_24\_68\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 951.093+/-0.209  $\chi^2/\text{NDF}$ : 319652.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

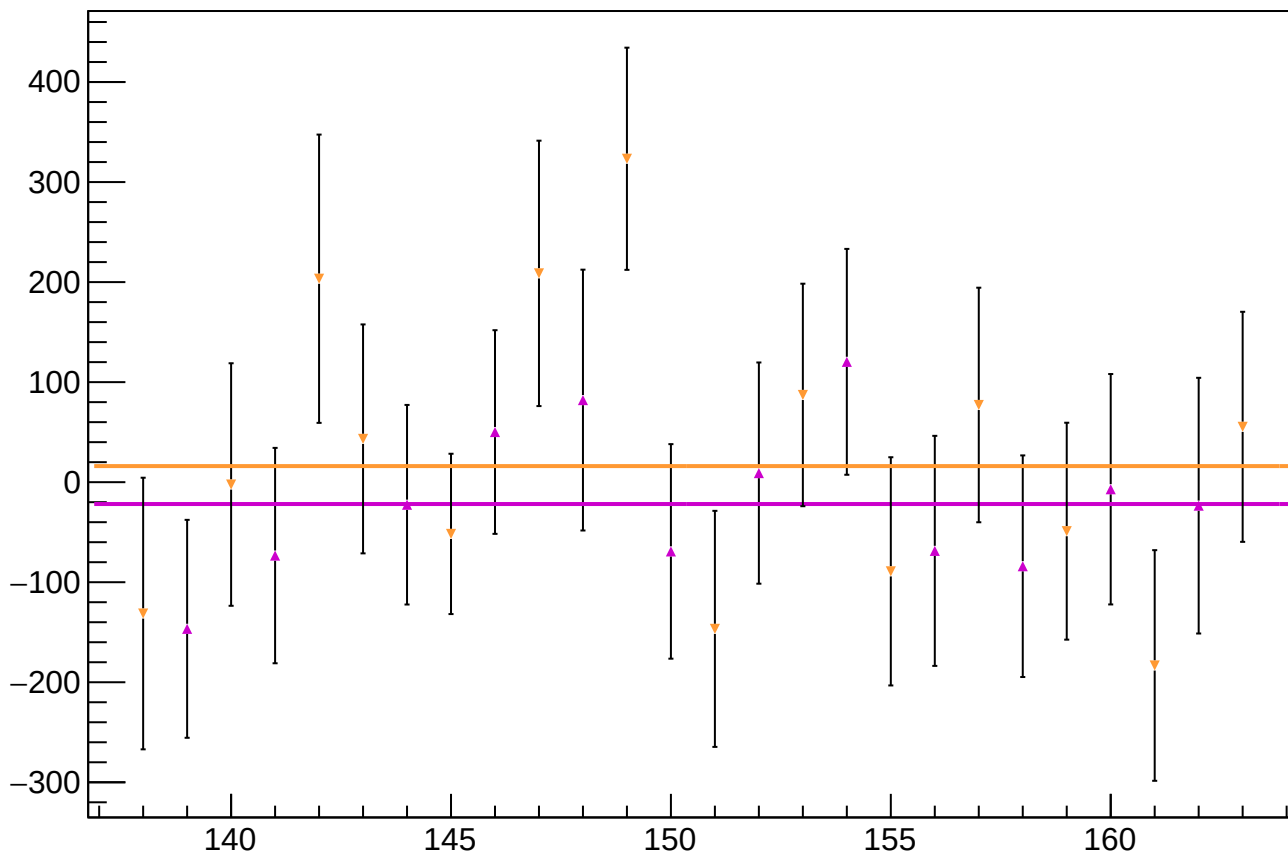
Left In: 957.265+/-0.218  $\chi^2/\text{NDF}$ : 267548.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 954.053+/-0.151  $\chi^2/\text{NDF}$ : 587619.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 16.078 $\pm$ 30.447  $\chi^2$ /NDF:20.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

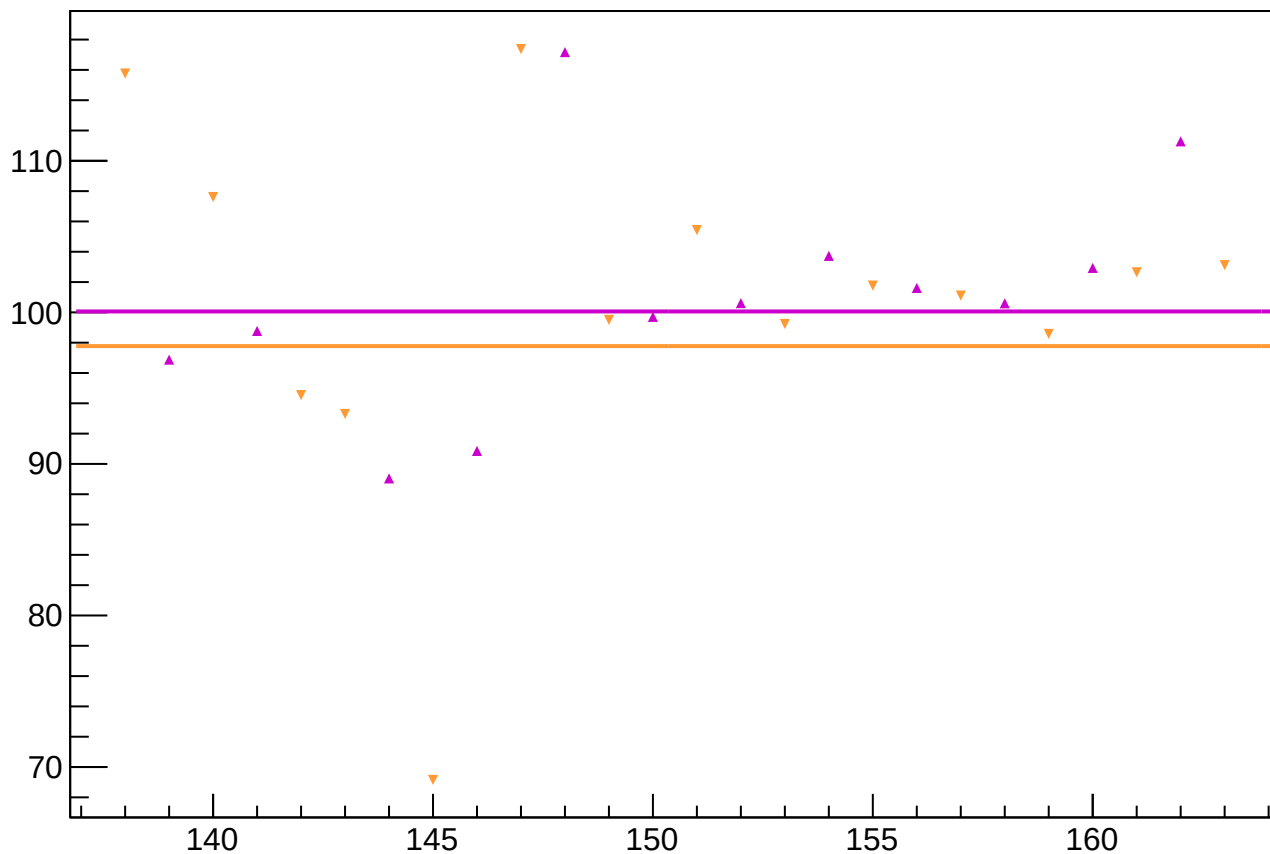
Left In: -21.841 $\pm$ 32.152  $\chi^2$ /NDF:5.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.849 $\pm$ 22.107  $\chi^2$ /NDF: 26.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 97.774+/-0.022  $\chi^2/\text{NDF}$ : 372566.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

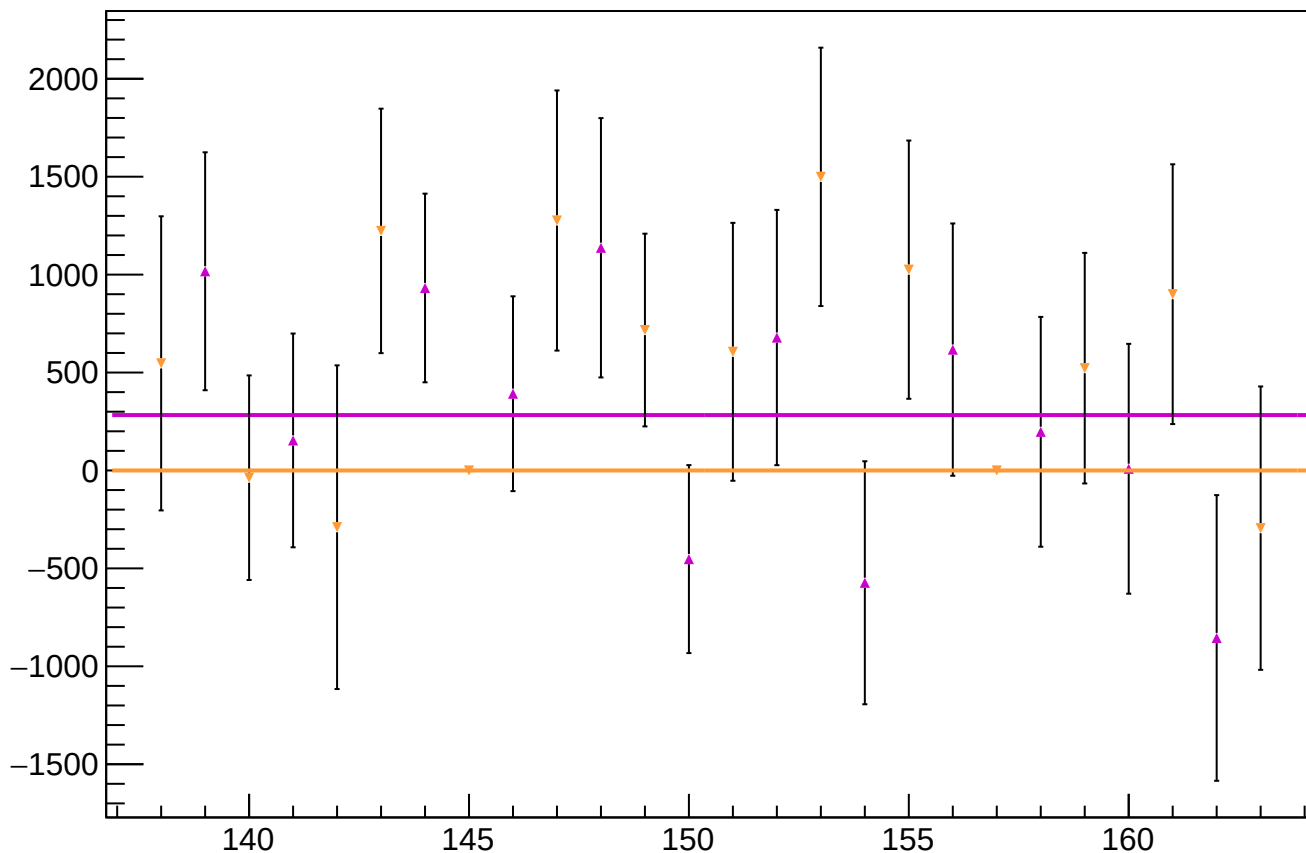
Left In: 100.061+/-0.023  $\chi^2/\text{NDF}$ : 96443.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 98.855+/-0.016  $\chi^2/\text{NDF}$ : 474343.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 21.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

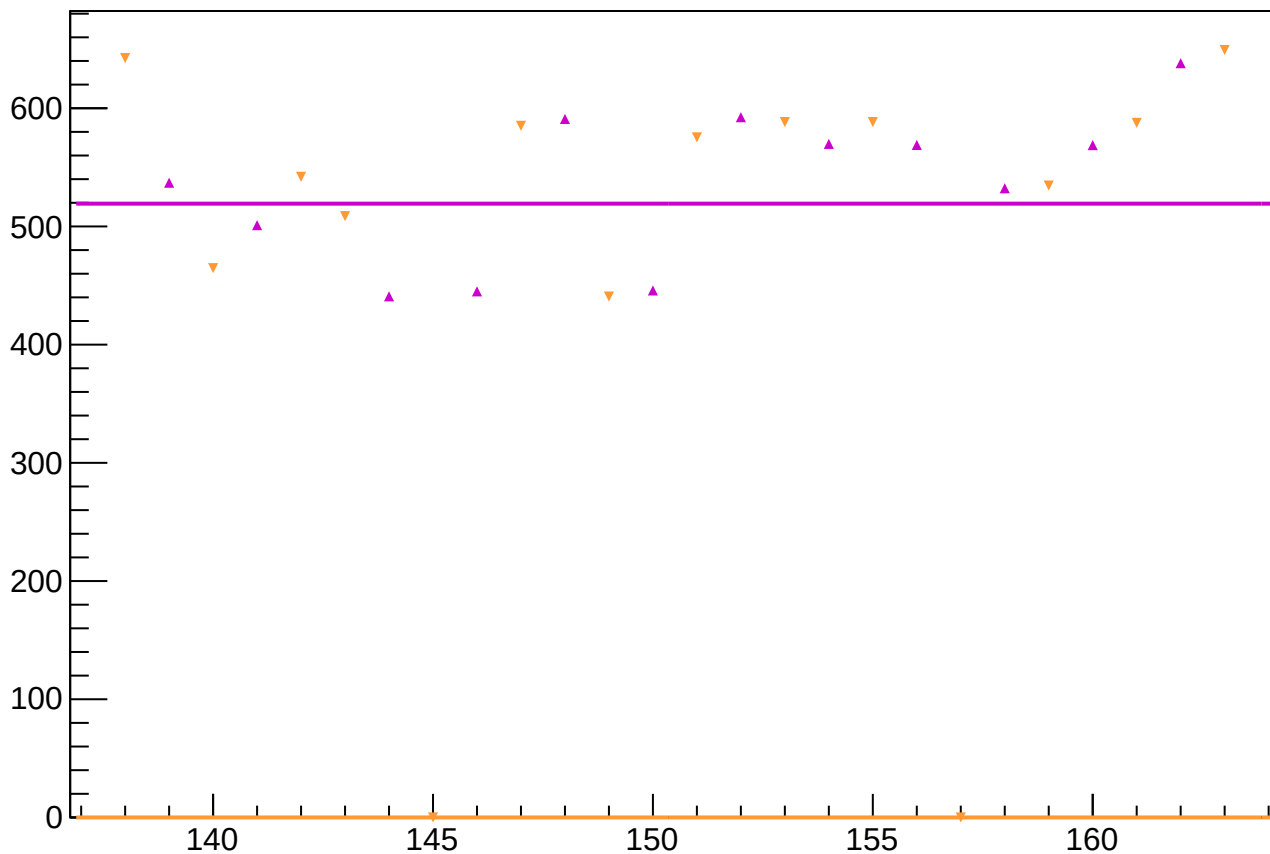
Left In: 282.843+/-167.488  $\chi^2/\text{NDF}$ : 12.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.000+/-0.000  $\chi^2/\text{NDF}$ : 37.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_48\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :17933077.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

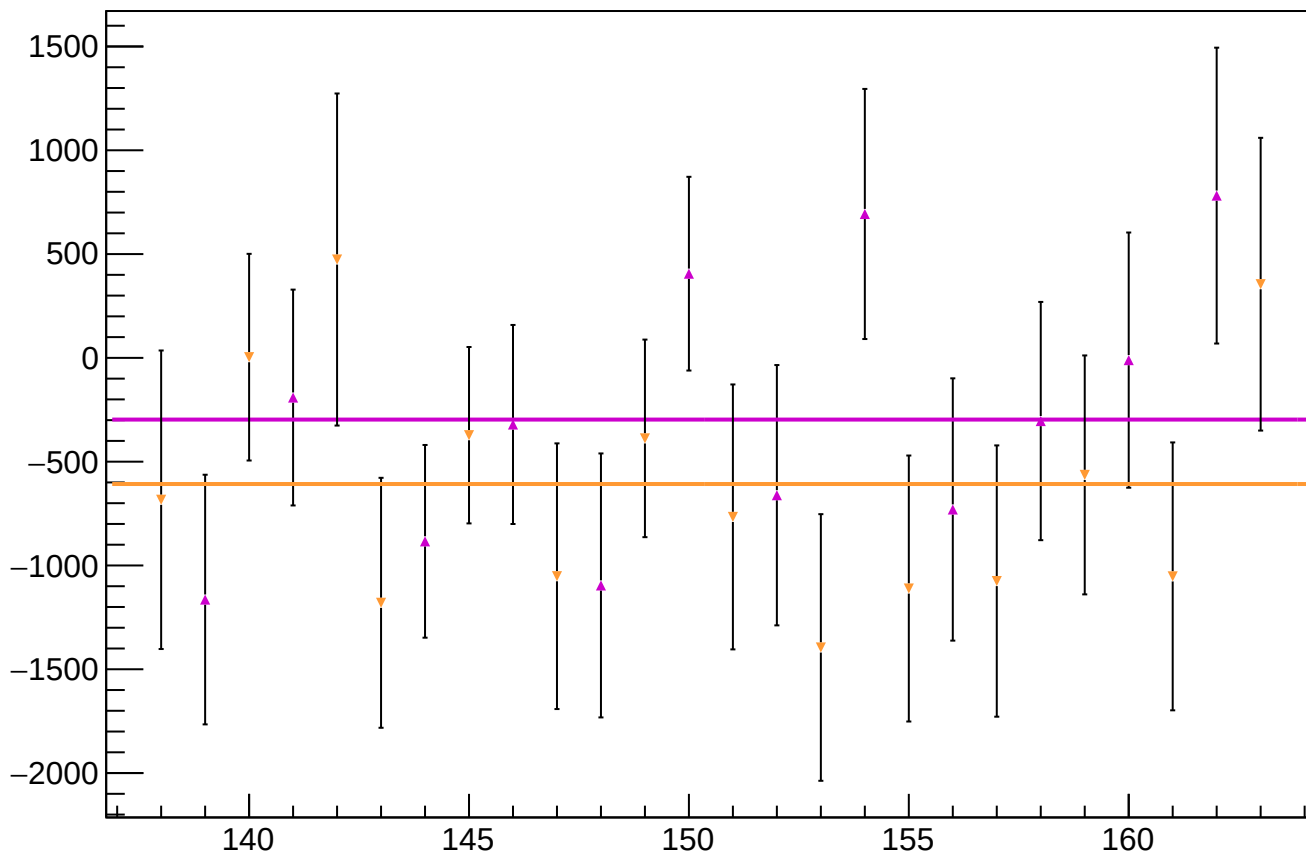
Left In: 519.285+/-0.118  $\chi^2/\text{NDF}$ :288152.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 37446654.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_26\_48\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -607.642 $\pm$ 158.548  $\chi^2$ /NDF:10.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

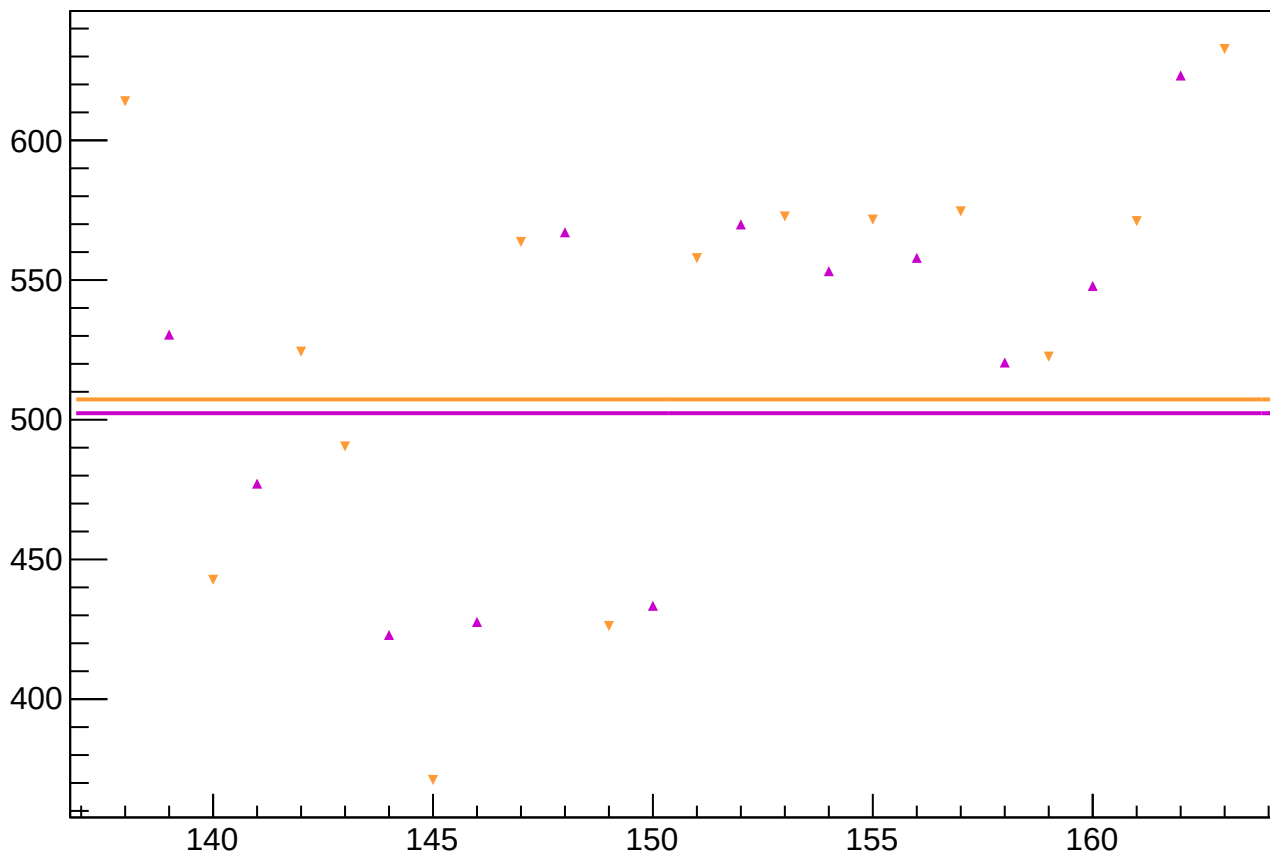
Left In: -297.220 $\pm$ 162.261  $\chi^2$ /NDF:13.6/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -456.023 $\pm$ 113.400  $\chi^2$ /NDF: 25.7/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_26\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 507.276+/-0.112  $\chi^2/\text{NDF}$ : 518215.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 502.342+/-0.115  $\chi^2/\text{NDF}$ : 303950.9/11

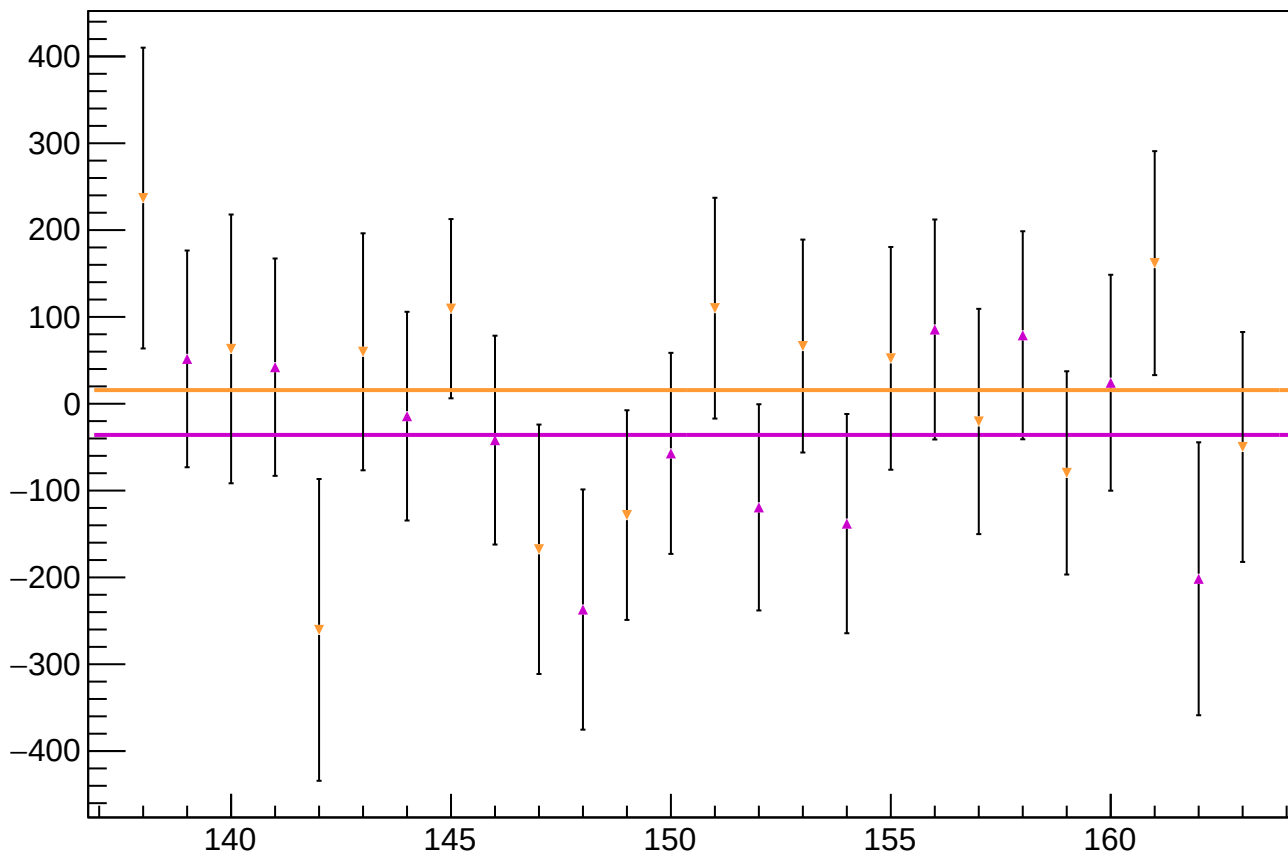
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 504.866+/-0.080  $\chi^2/\text{NDF}$ : 823112.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_sam\_1548\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 15.714 $\pm$ 35.102  $\chi^2$ /NDF:11.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

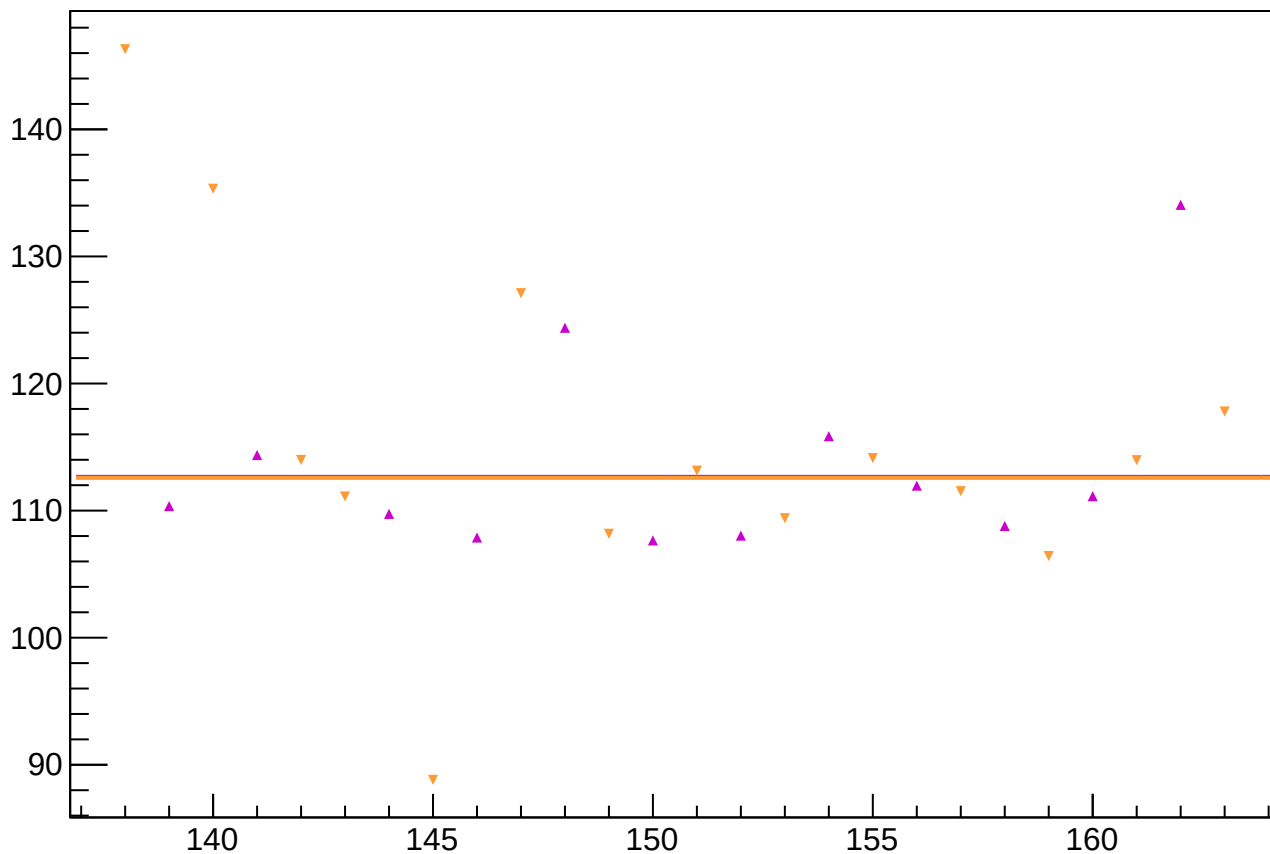
Left In: -35.892 $\pm$ 36.176  $\chi^2$ /NDF:7.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.312 $\pm$ 25.192  $\chi^2$ /NDF: 19.7/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_1548\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 112.579+/-0.025  $\chi^2/\text{NDF}$ : 259237.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

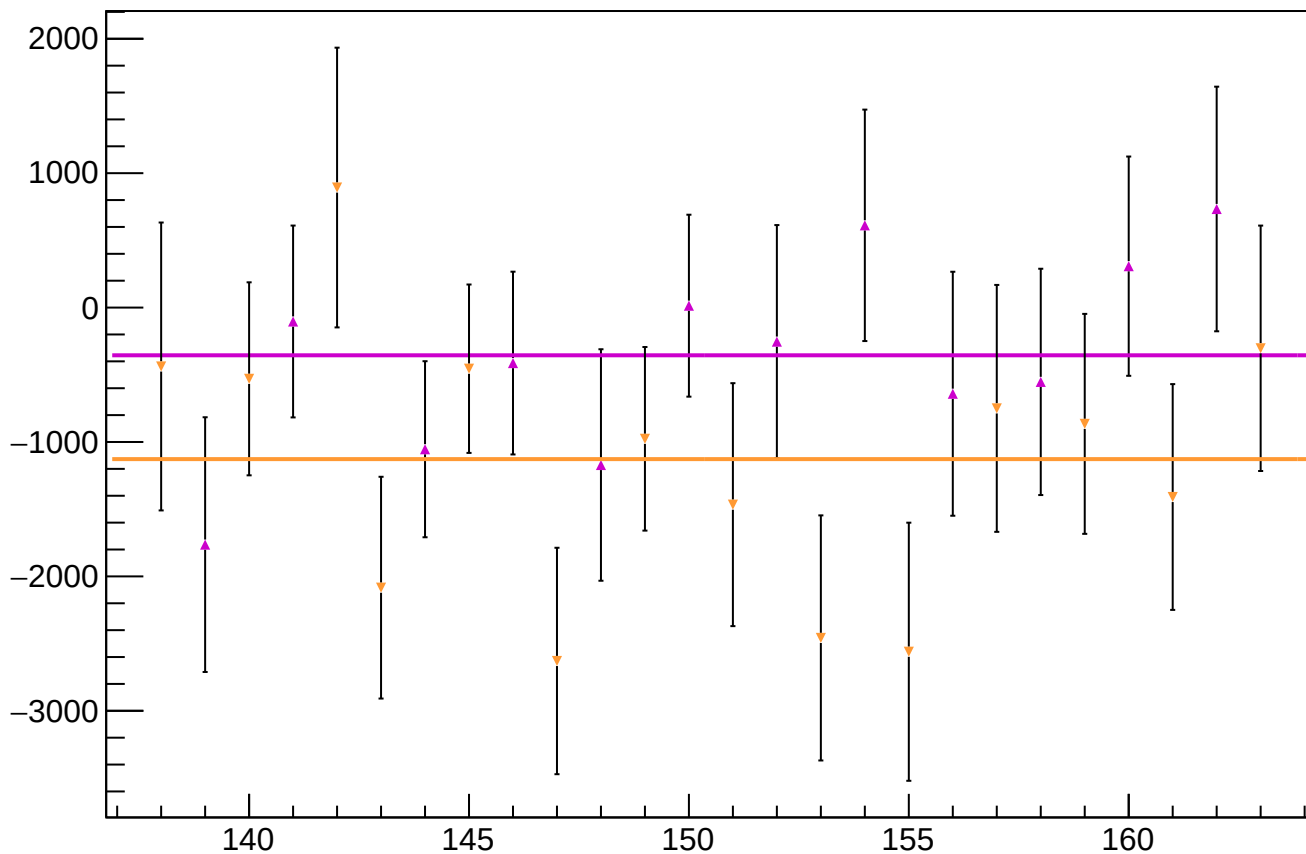
Left In: 112.656+/-0.026  $\chi^2/\text{NDF}$ : 67341.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 112.616+/-0.018  $\chi^2/\text{NDF}$ : 326584.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1127.416+/-222.978  $\chi^2/\text{NDF}$ :16.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

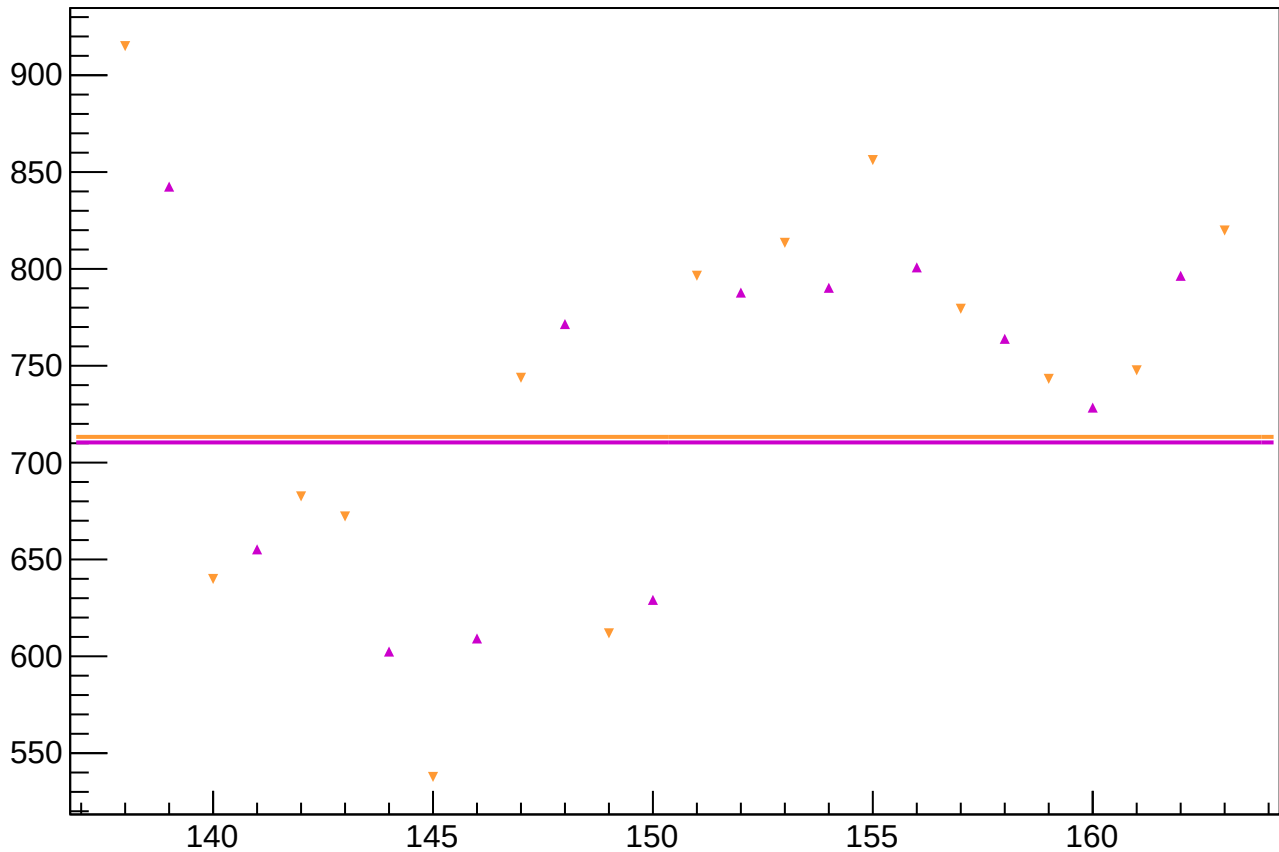
Left In: -354.989+/-228.715  $\chi^2/\text{NDF}$ :8.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -751.012+/-159.659  $\chi^2/\text{NDF}$ : 30.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 713.281+/-0.158  $\chi^2/\text{NDF}$ : 431349.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

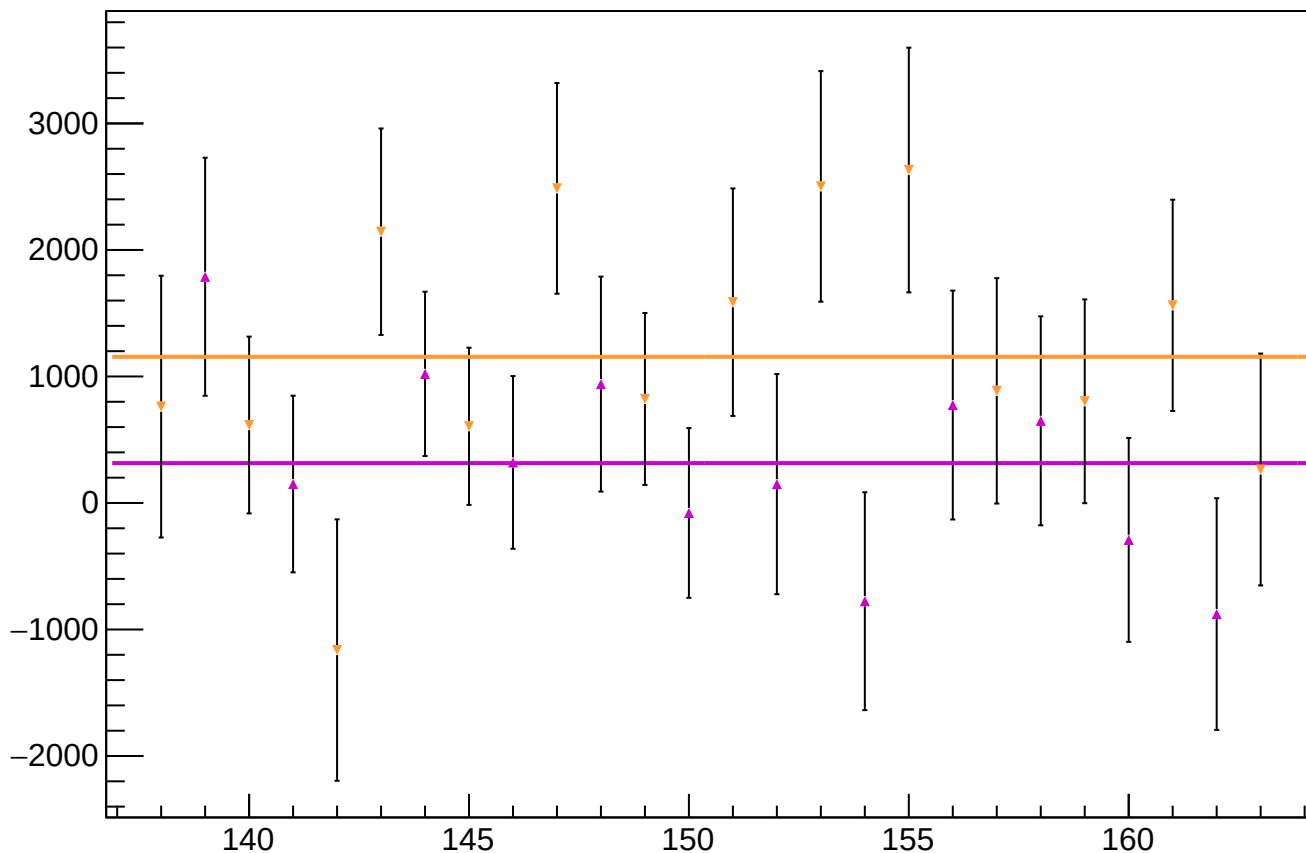
Left In: 710.410+/-0.162  $\chi^2/\text{NDF}$ : 268246.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 711.882+/-0.113  $\chi^2/\text{NDF}$ : 699757.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1155.180+/-220.543  $\chi^2/\text{NDF}$ : 17.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

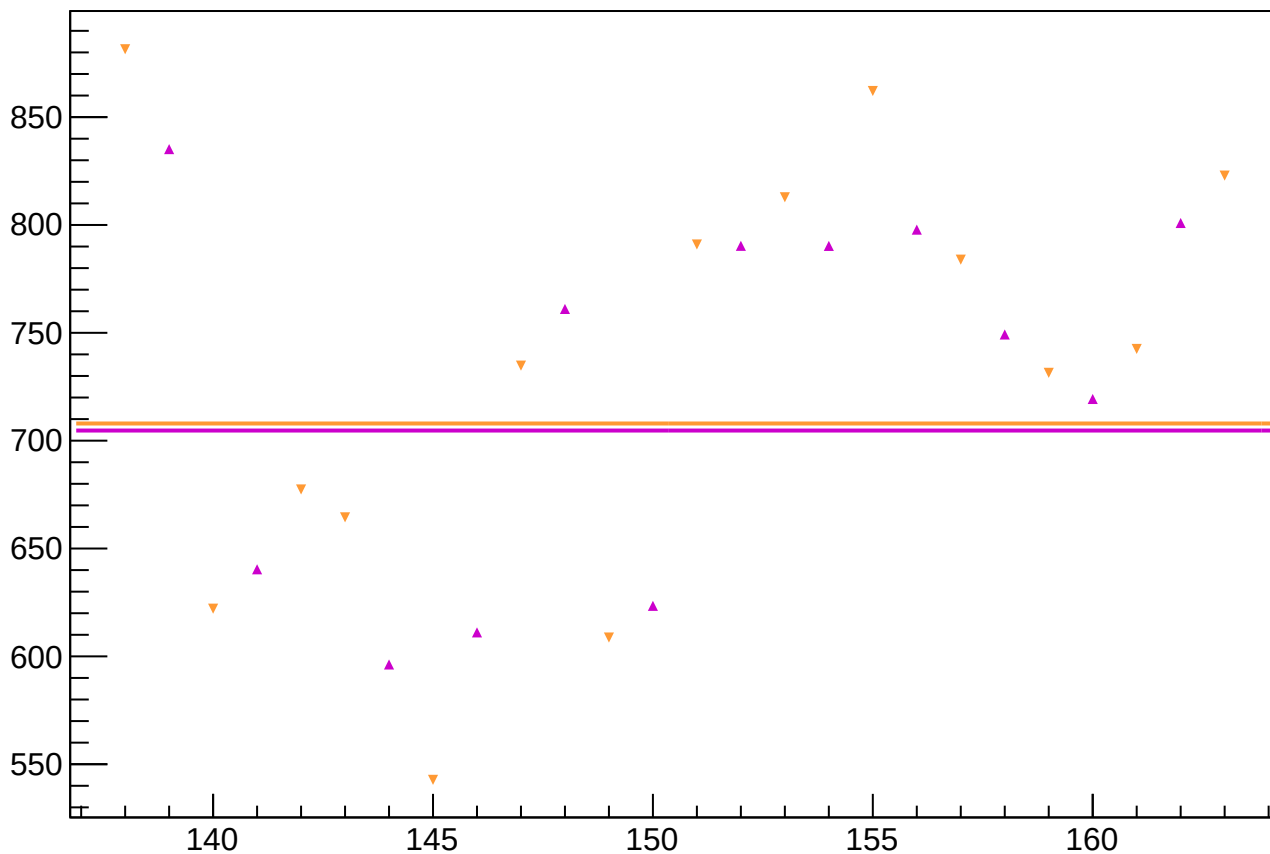
Left In: 315.131+/-227.054  $\chi^2/\text{NDF}$ : 8.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 747.373+/-158.199  $\chi^2/\text{NDF}$ : 33.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1548\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 707.964+/-0.156  $\chi^2/\text{NDF}$ : 425588.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

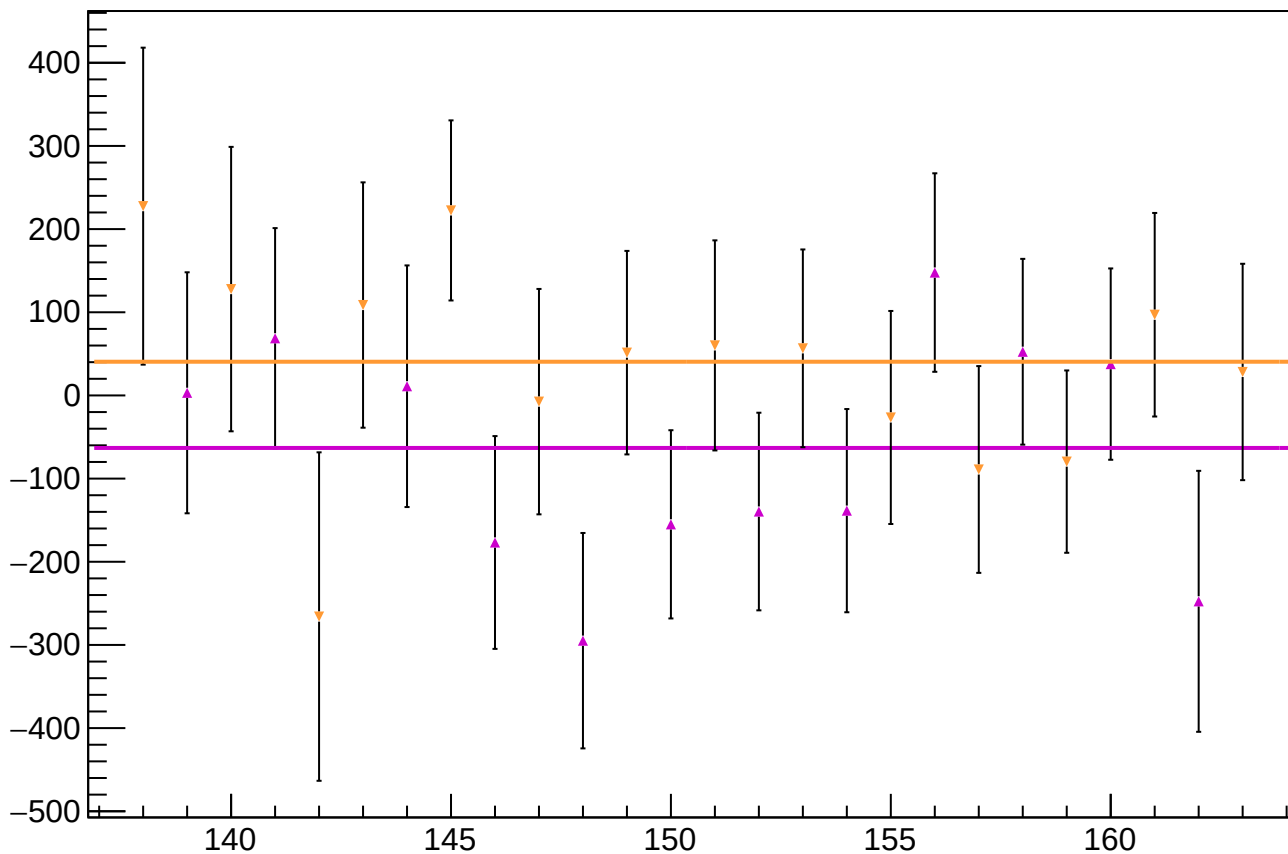
Left In: 704.698+/-0.161  $\chi^2/\text{NDF}$ : 275871.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 706.378+/-0.112  $\chi^2/\text{NDF}$ : 701672.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3748\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.525+/-35.178  $\chi^2/\text{NDF}$ : 9.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

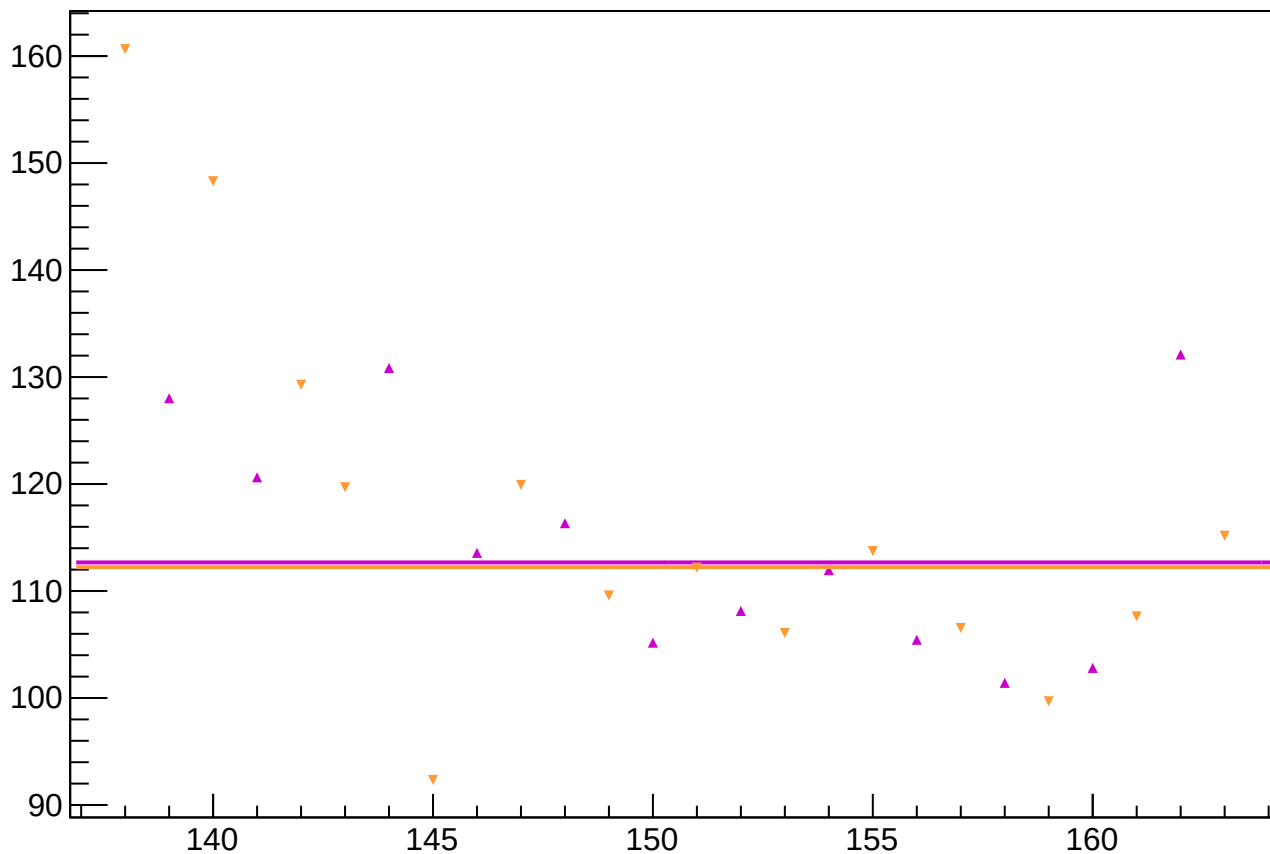
Left In: -63.146+/-36.389  $\chi^2/\text{NDF}$ : 13.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -9.557+/-25.292  $\chi^2/\text{NDF}$ : 27.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_3748\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 112.232+/-0.025  $\chi^2/\text{NDF}$ : 352858.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 112.672+/-0.026  $\chi^2/\text{NDF}$ : 147444.3/11

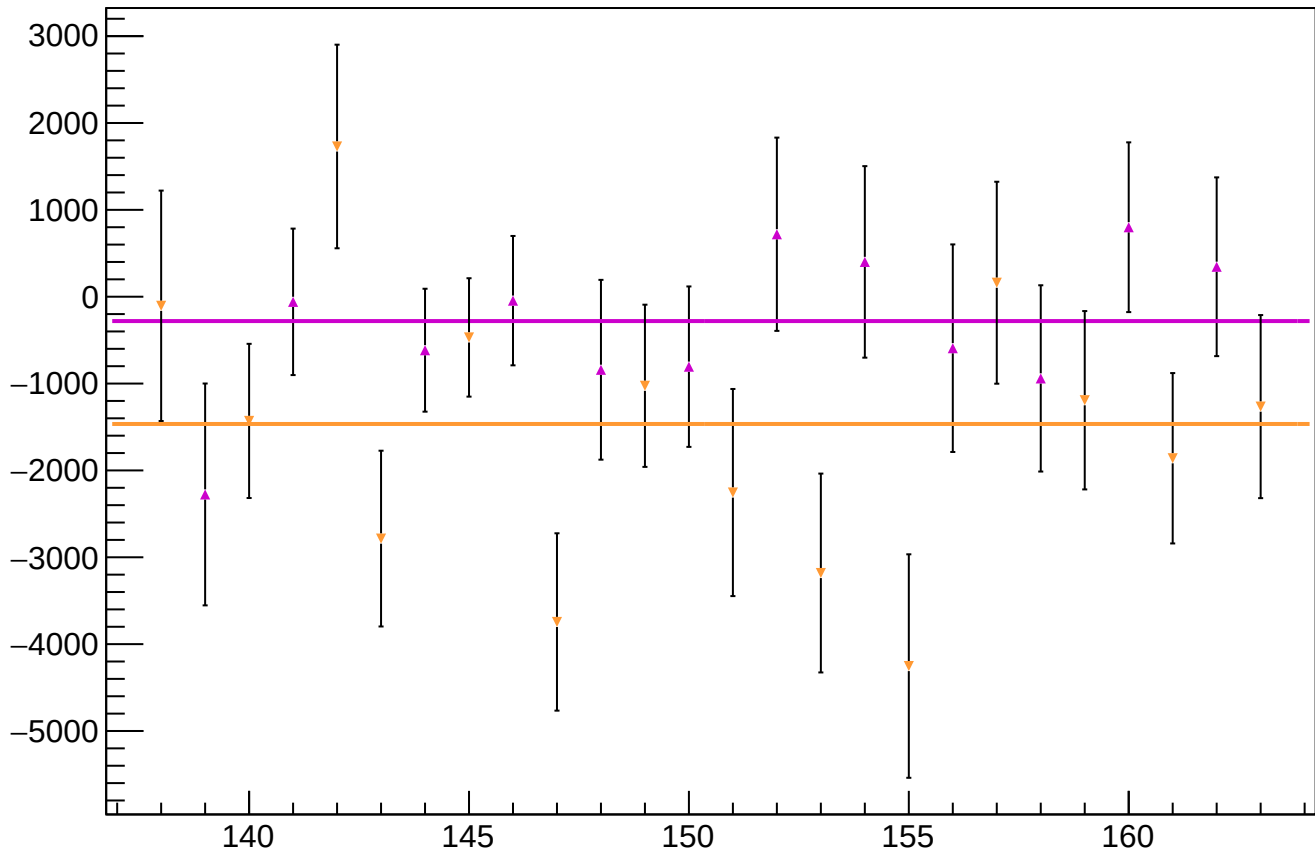
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 112.444+/-0.018  $\chi^2/\text{NDF}$ : 500453.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_3748\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1465.247 $\pm$ 272.162  $\chi^2$ /NDF:27.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

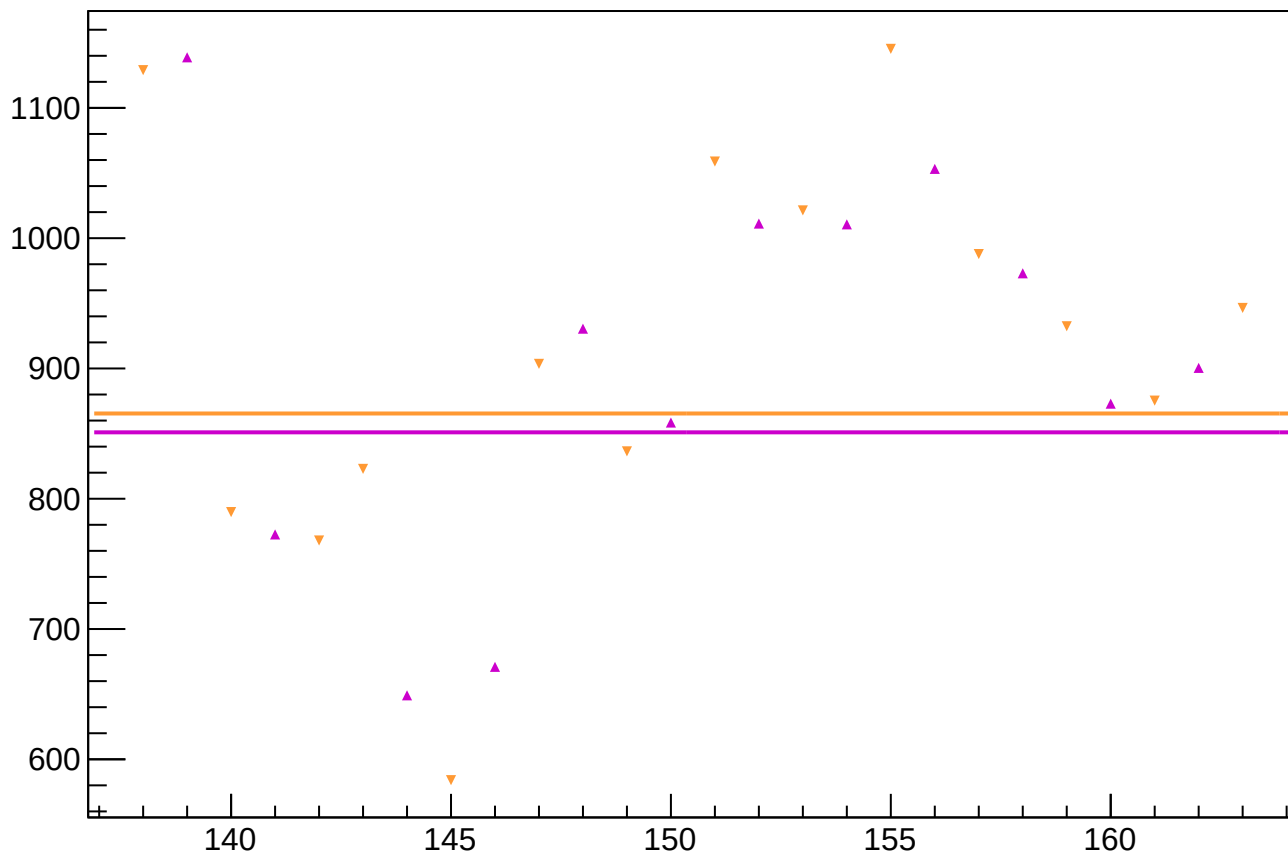
Left In: -280.494 $\pm$ 276.098  $\chi^2$ /NDF:6.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -881.374 $\pm$ 193.824  $\chi^2$ /NDF: 43.2/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_3748\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 865.438+/-0.192  $\chi^2/\text{NDF}$ : 683684.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

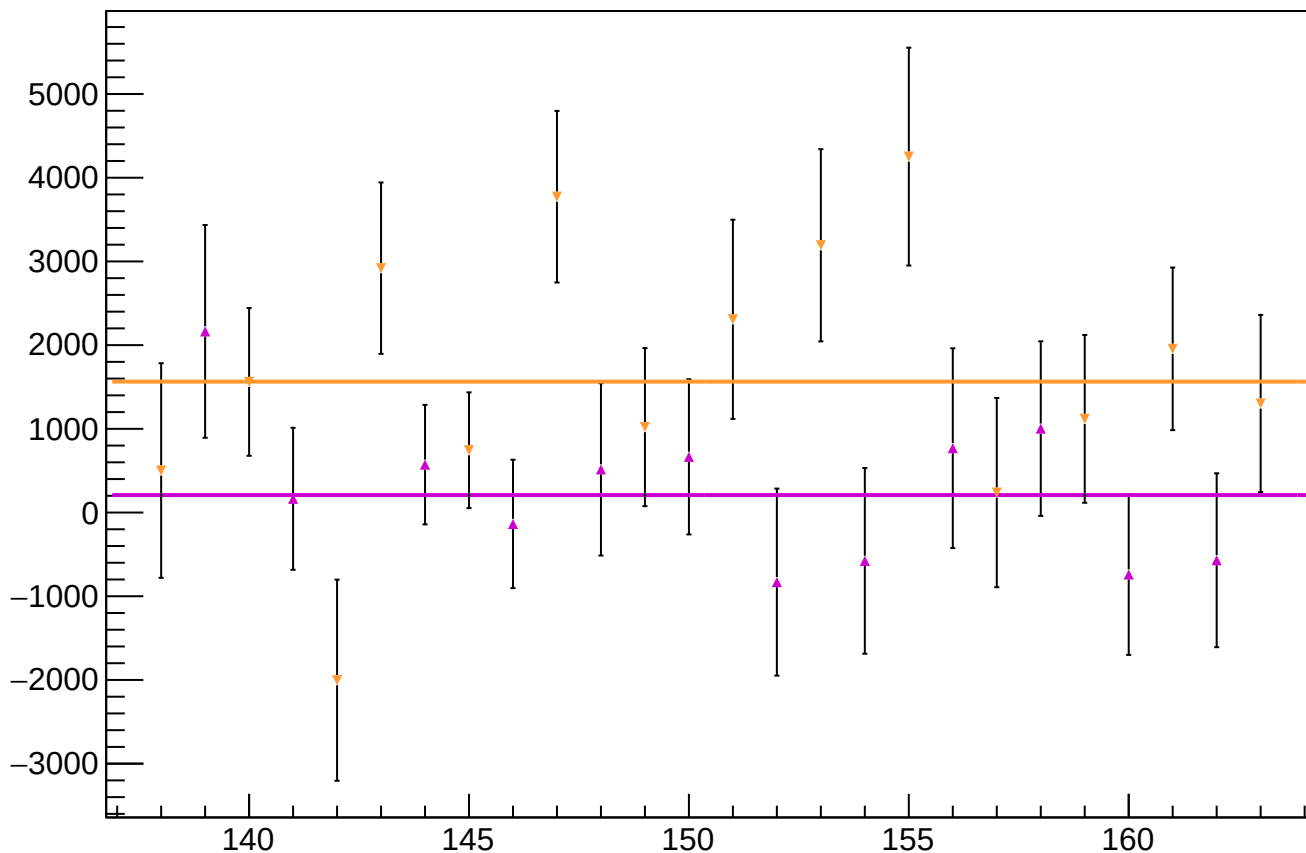
Left In: 850.974+/-0.195  $\chi^2/\text{NDF}$ : 582741.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 858.309+/-0.137  $\chi^2/\text{NDF}$ : 1269210.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1564.192+/-272.279  $\chi^2/\text{NDF}$ : 26.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

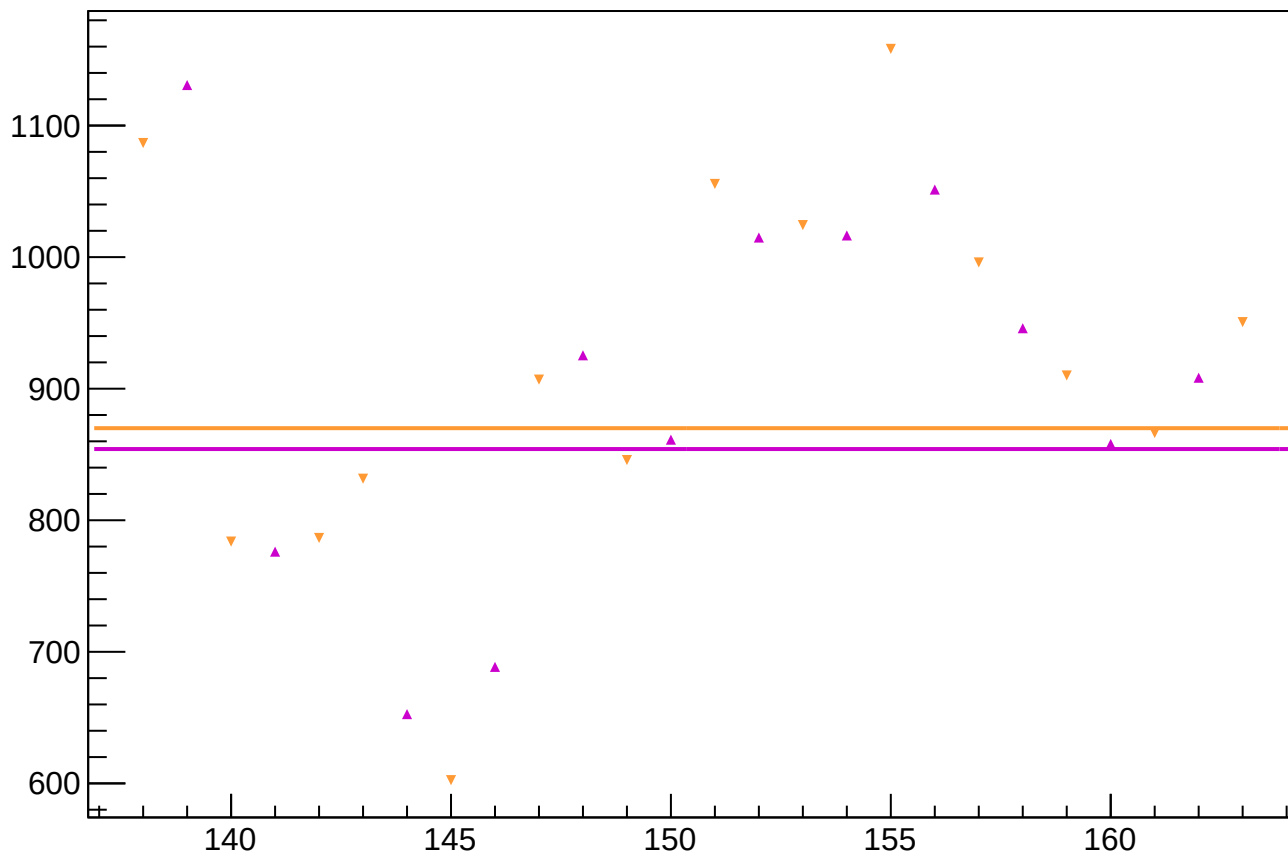
Left In: 208.567+/-277.097  $\chi^2/\text{NDF}$ : 6.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 898.266+/-194.211  $\chi^2/\text{NDF}$ : 45.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3748\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 869.990+/-0.193  $\chi^2/\text{NDF}$ :614586.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

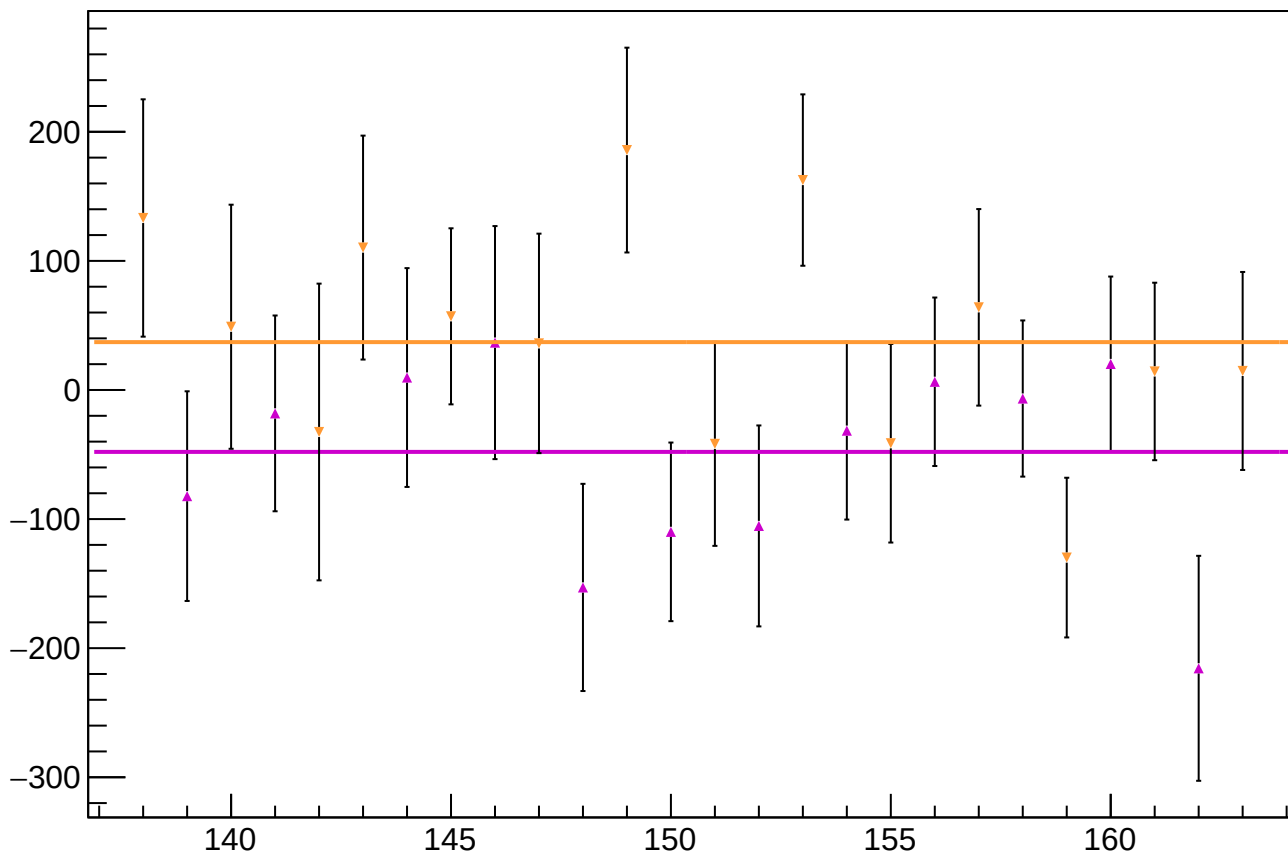
Left In: 854.127+/-0.196  $\chi^2/\text{NDF}$ :533668.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 862.198+/-0.137  $\chi^2/\text{NDF}$ : 1151589.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_1526\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 37.081 $\pm$ 20.749  $\chi^2$ /NDF:19.0/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

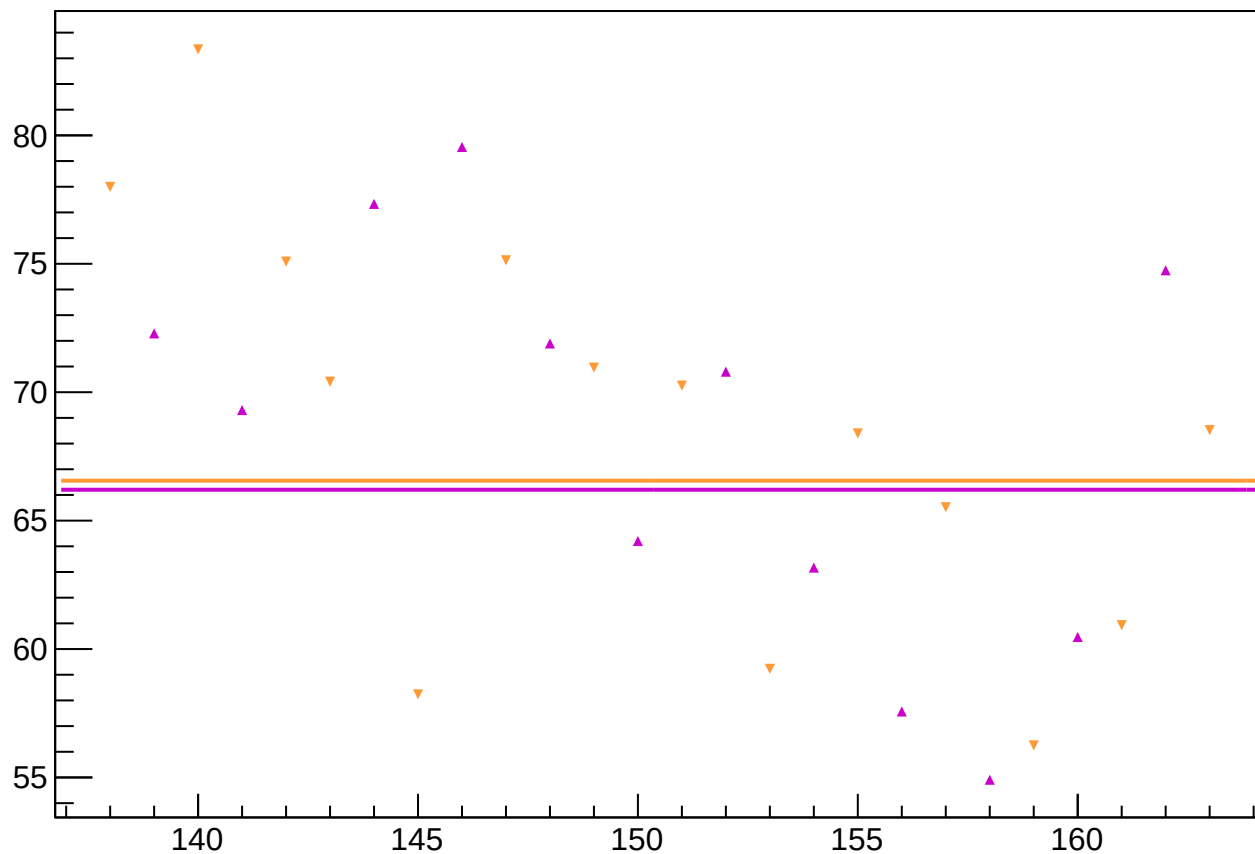
Left In: -47.960 $\pm$ 21.390  $\chi^2$ /NDF:10.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.144 $\pm$ 14.893  $\chi^2$ /NDF: 37.8/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_1526\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 66.555+/-0.015  $\chi^2/\text{NDF}$ :265843.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

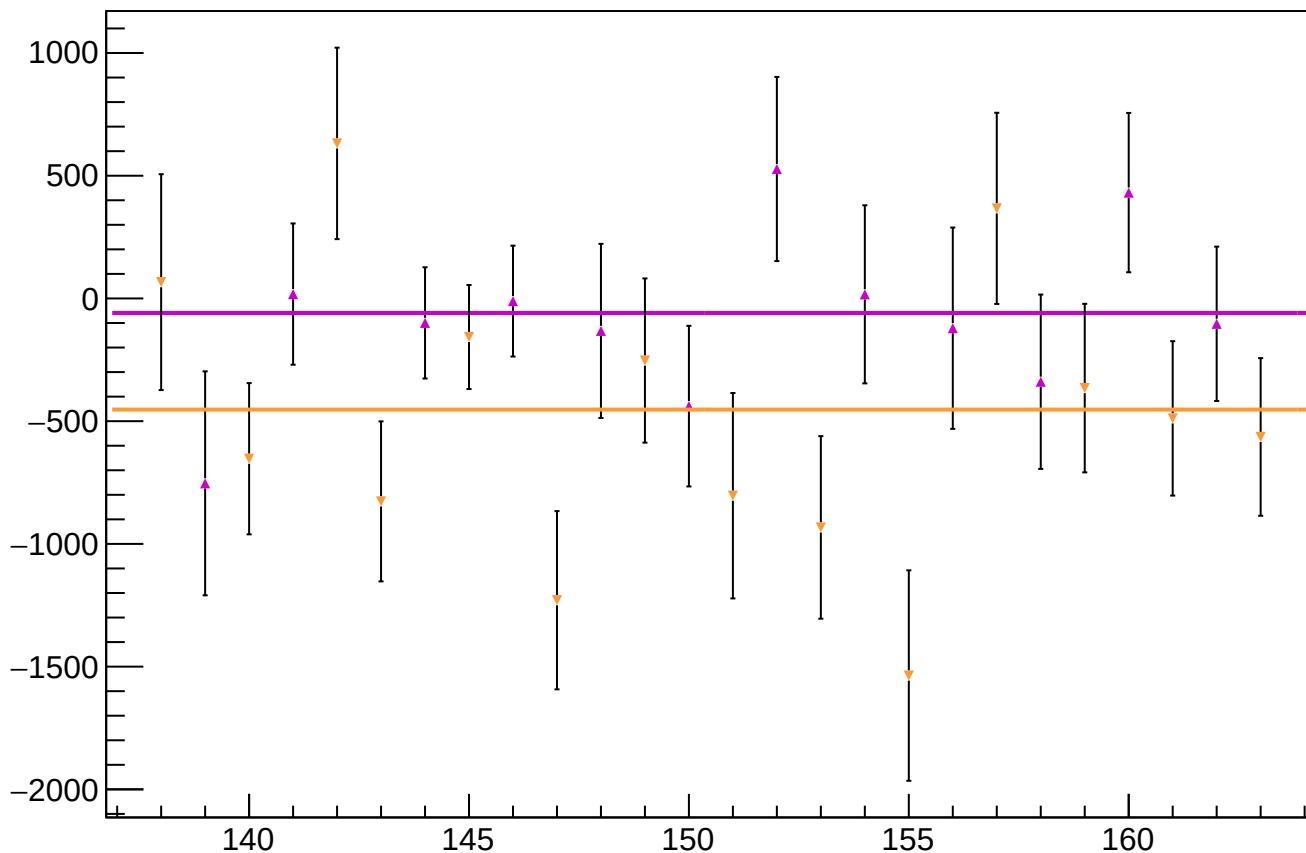
Left In: 66.203+/-0.015  $\chi^2/\text{NDF}$ :253617.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 66.384+/-0.011  $\chi^2/\text{NDF}$ : 519740.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -452.745 $\pm$ 89.897  $\chi^2$ /NDF:31.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

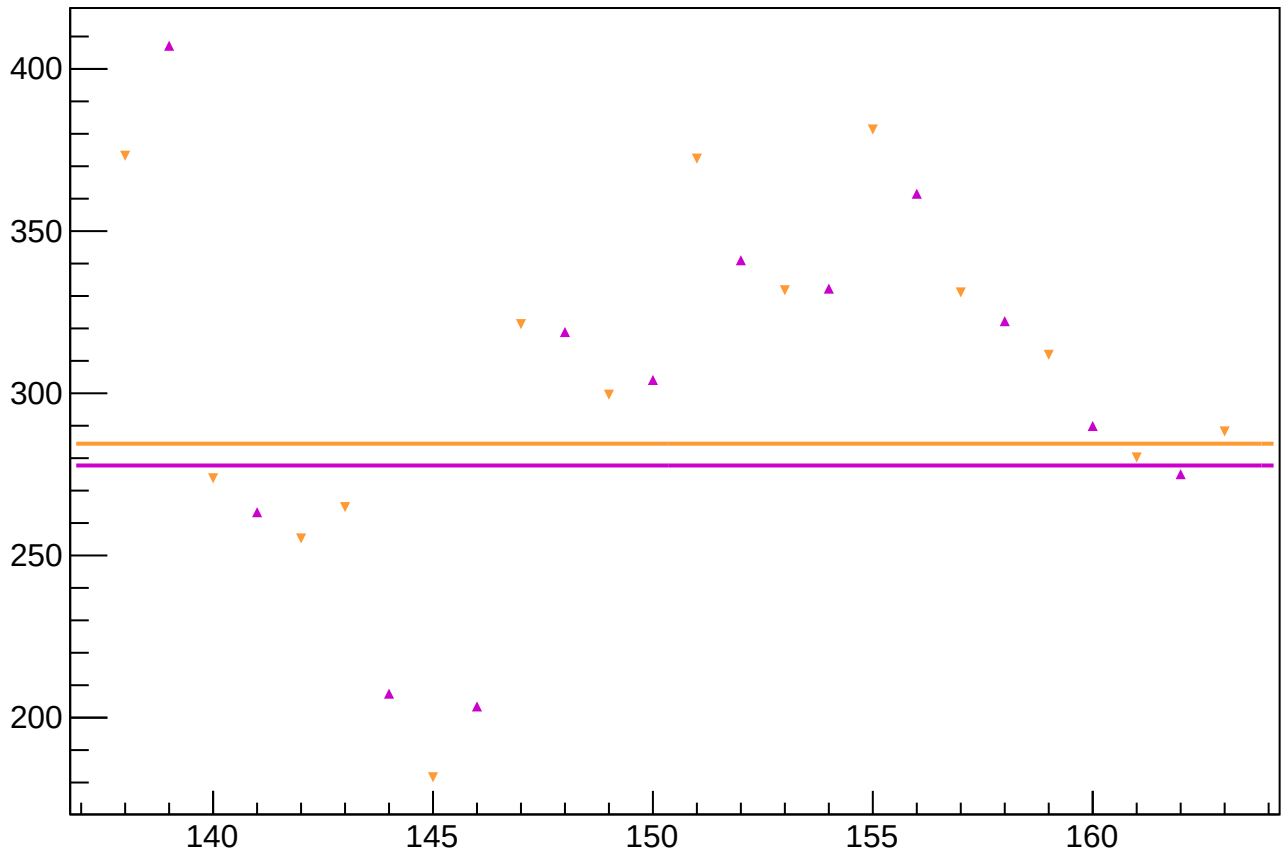
Left In: -59.215 $\pm$ 90.748  $\chi^2$ /NDF:9.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -257.833 $\pm$ 63.866  $\chi^2$ /NDF: 49.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1526\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 284.461+/-0.064  $\chi^2/\text{NDF}$ : 862664.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 277.743+/-0.064  $\chi^2/\text{NDF}$ : 834751.7/11

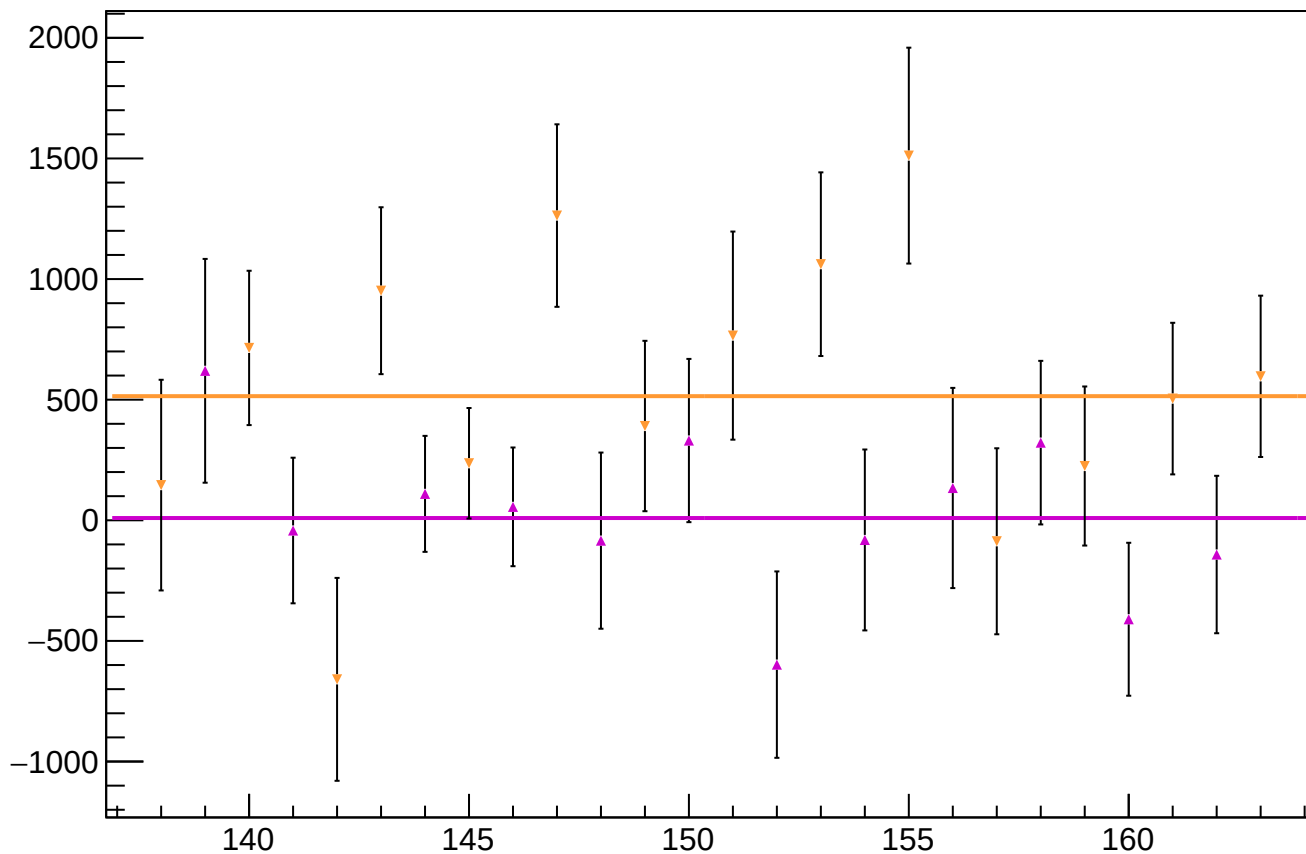
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 281.133+/-0.045  $\chi^2/\text{NDF}$ : 1702948.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_1526\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 514.594+/-93.108  $\chi^2/\text{NDF}$ : 26.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

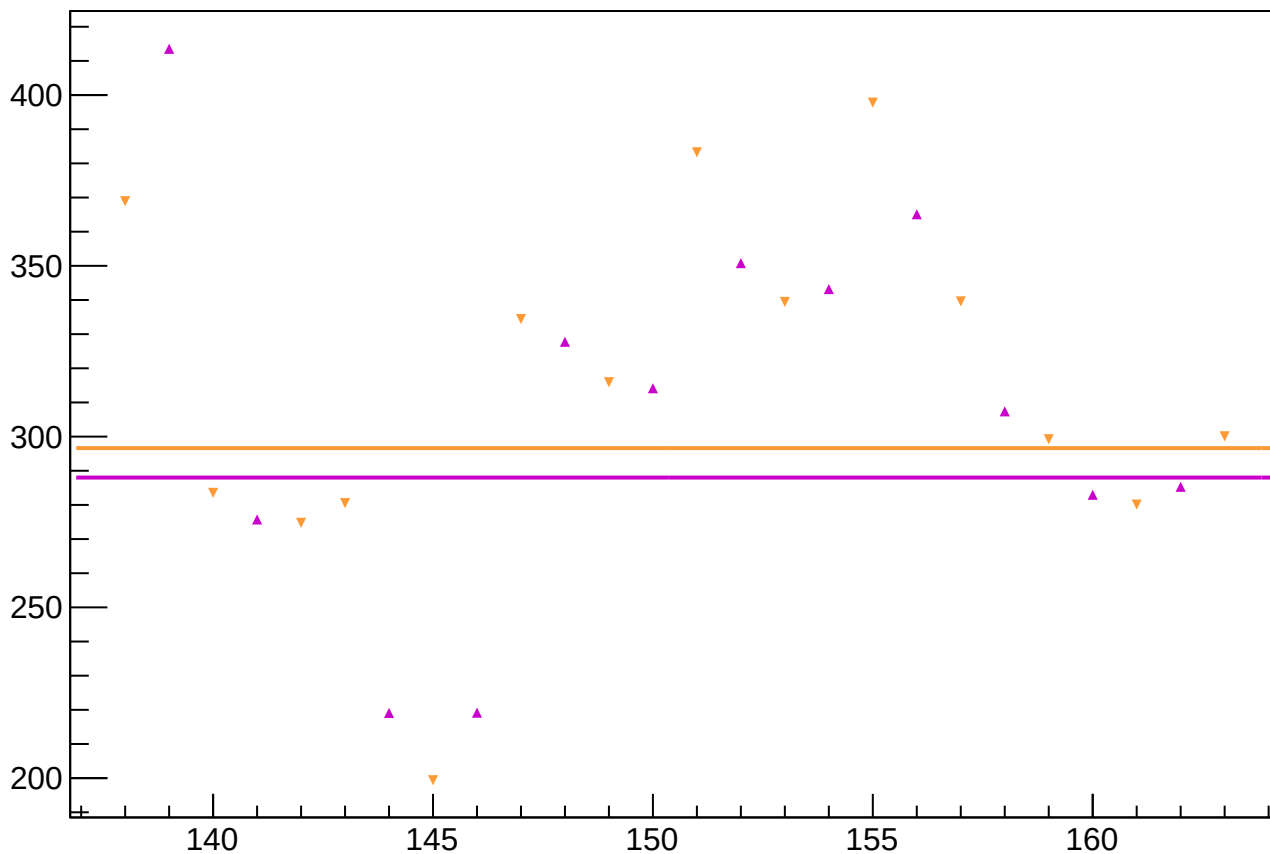
Left In: 9.388+/-93.933  $\chi^2/\text{NDF}$ : 8.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 264.221+/-66.127  $\chi^2/\text{NDF}$ : 49.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1526\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 296.637+/-0.066  $\chi^2/\text{NDF}$ : 693059.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

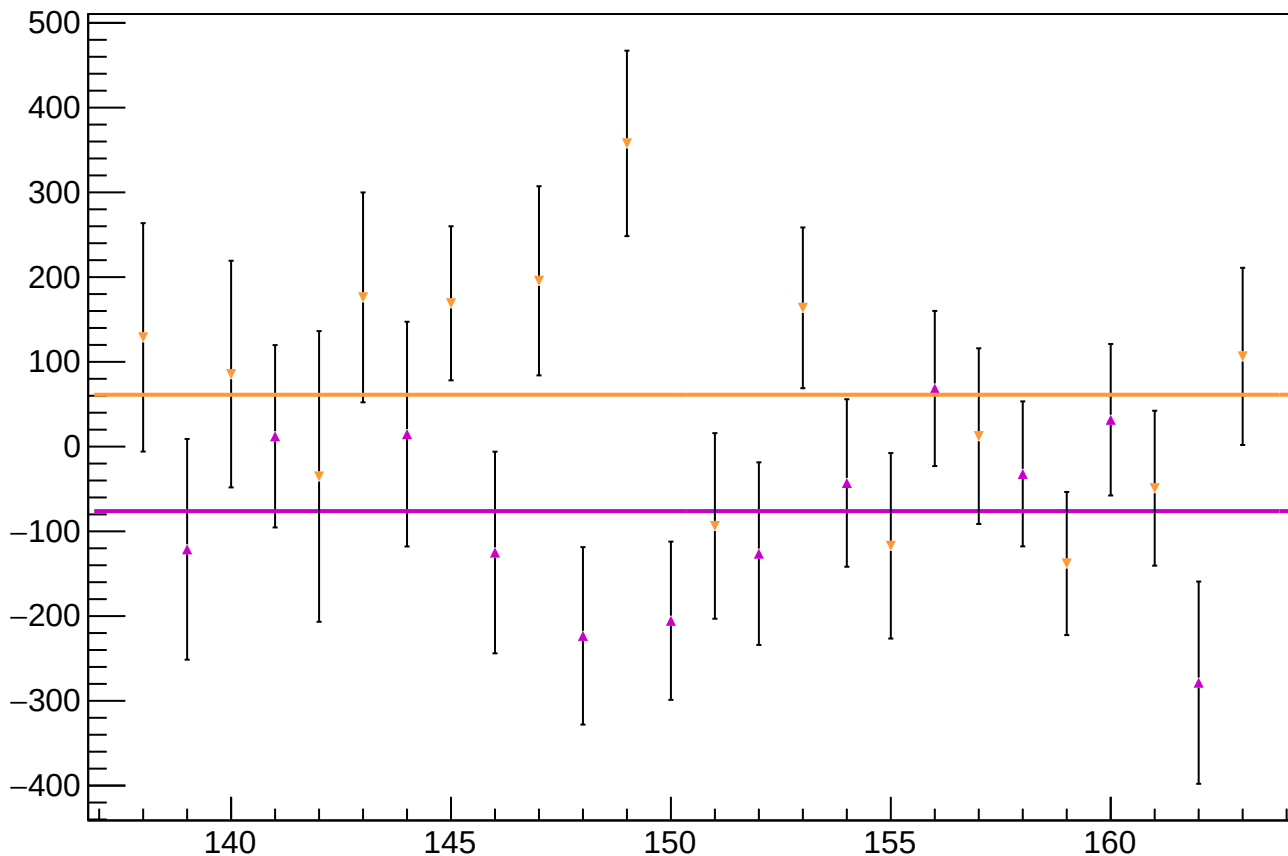
Left In: 288.010+/-0.066  $\chi^2/\text{NDF}$ : 678671.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 292.362+/-0.047  $\chi^2/\text{NDF}$ : 1380240.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_3726\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 61.201+/-28.657  $\chi^2/\text{NDF}$ :24.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

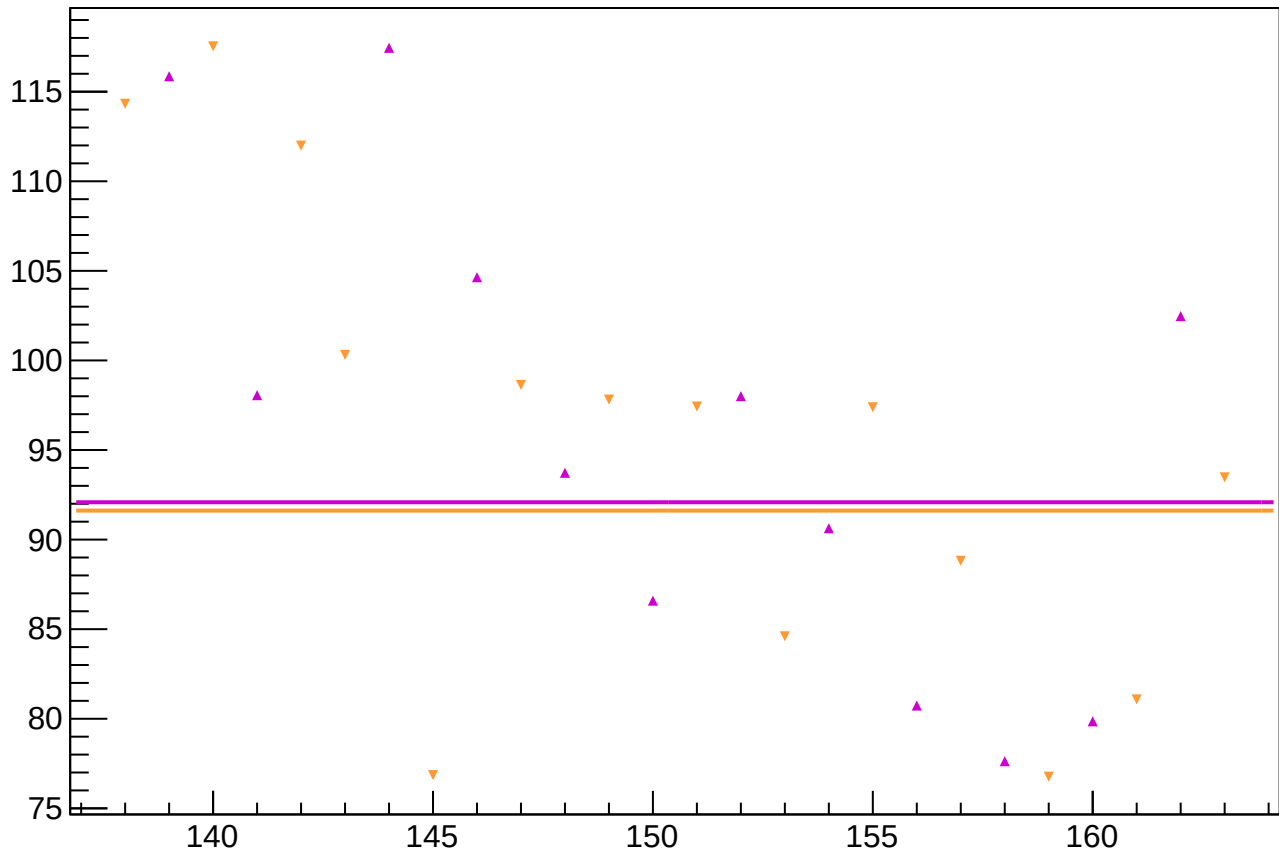
Left In: -76.075+/-29.897  $\chi^2/\text{NDF}$ :12.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.531+/-20.688  $\chi^2/\text{NDF}$ : 48.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_3726\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 91.619+/-0.020  $\chi^2/\text{NDF}$ : 349755.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

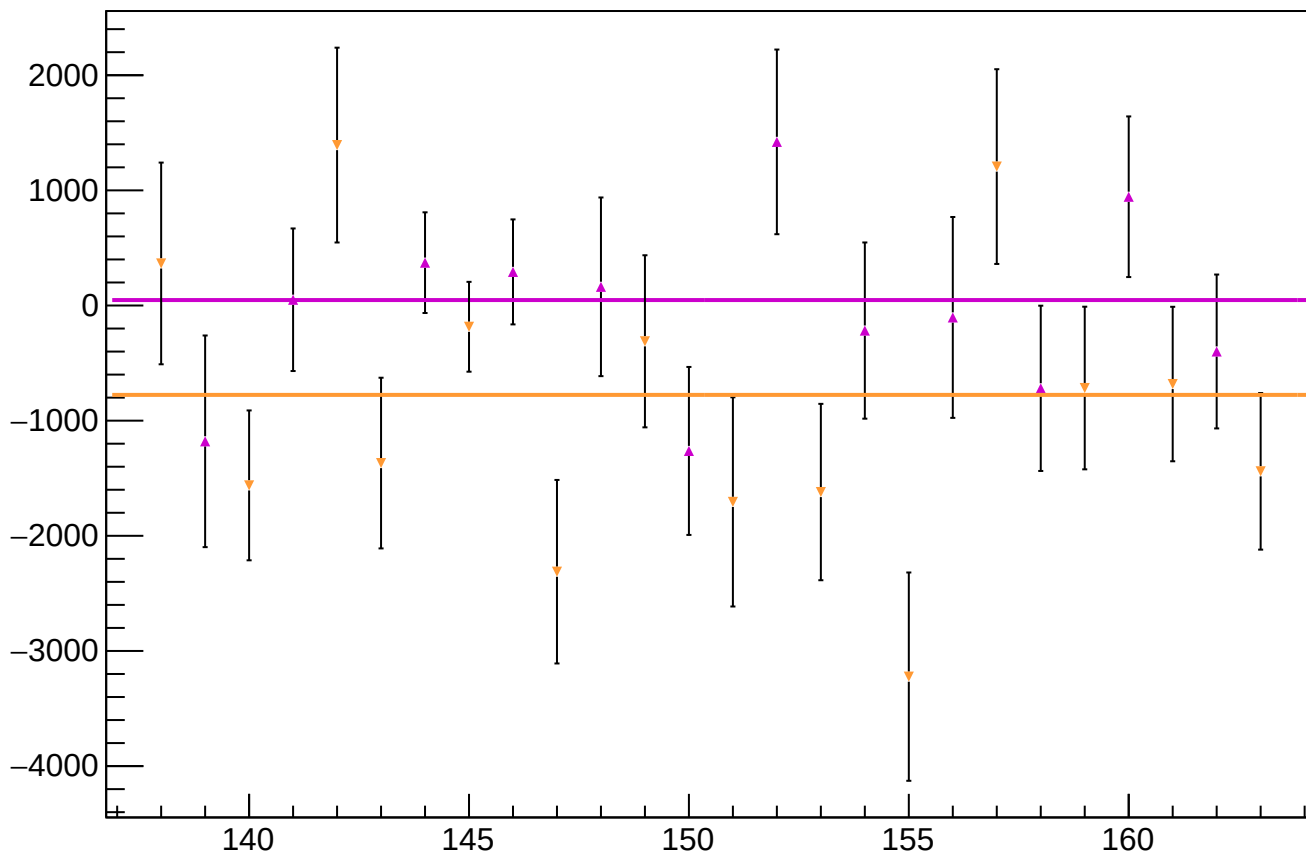
Left In: 92.085+/-0.021  $\chi^2/\text{NDF}$ : 322635.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 91.842+/-0.015  $\chi^2/\text{NDF}$ : 672643.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -776.187+/-186.517  $\chi^2/\text{NDF}$ : 32.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

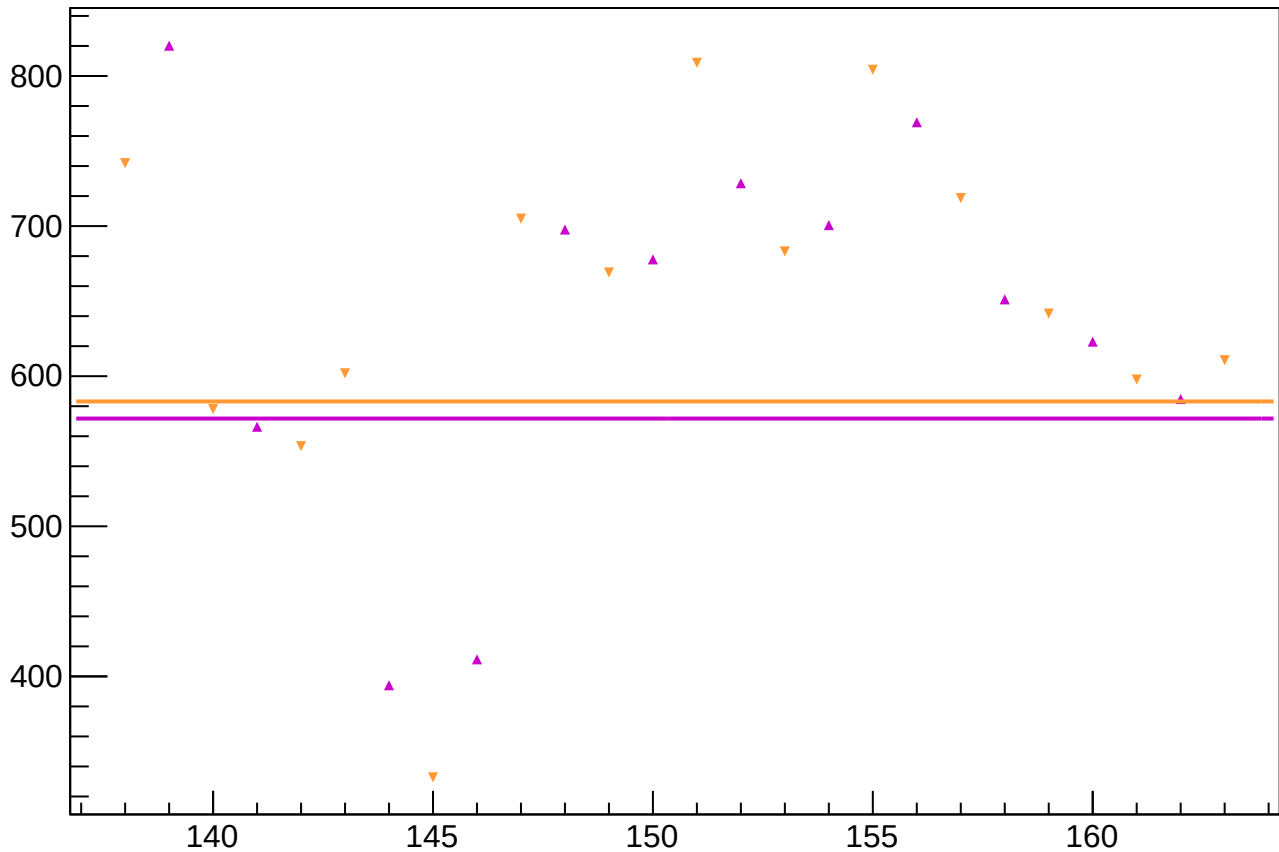
Left In: 47.352+/-188.342  $\chi^2/\text{NDF}$ : 12.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -368.425+/-132.528  $\chi^2/\text{NDF}$ : 54.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 583.169+/-0.132  $\chi^2/\text{NDF}$ :1313101.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

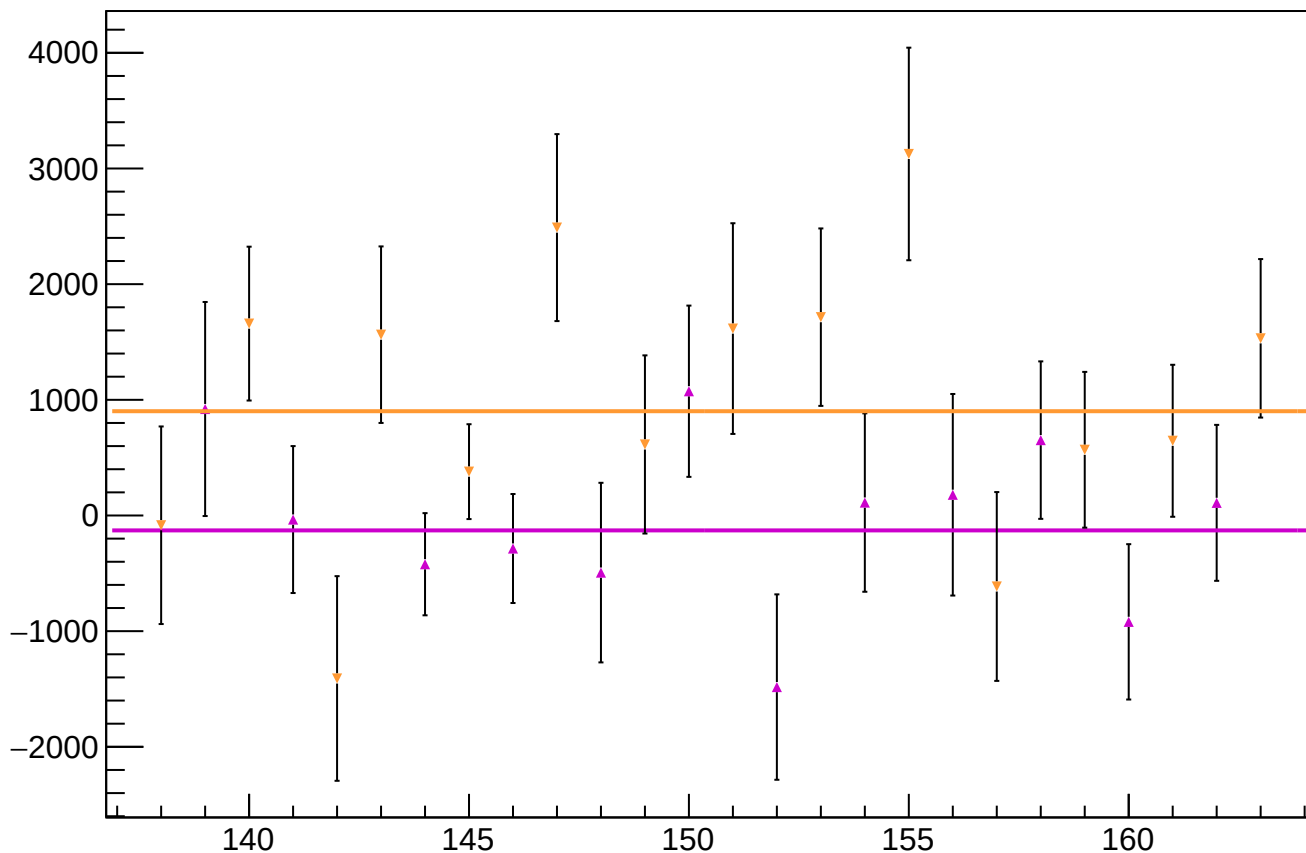
Left In: 571.773+/-0.133  $\chi^2/\text{NDF}$ :1090806.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 577.527+/-0.094  $\chi^2/\text{NDF}$ : 2407603.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 901.572+/-188.866  $\chi^2/\text{NDF}$ : 28.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

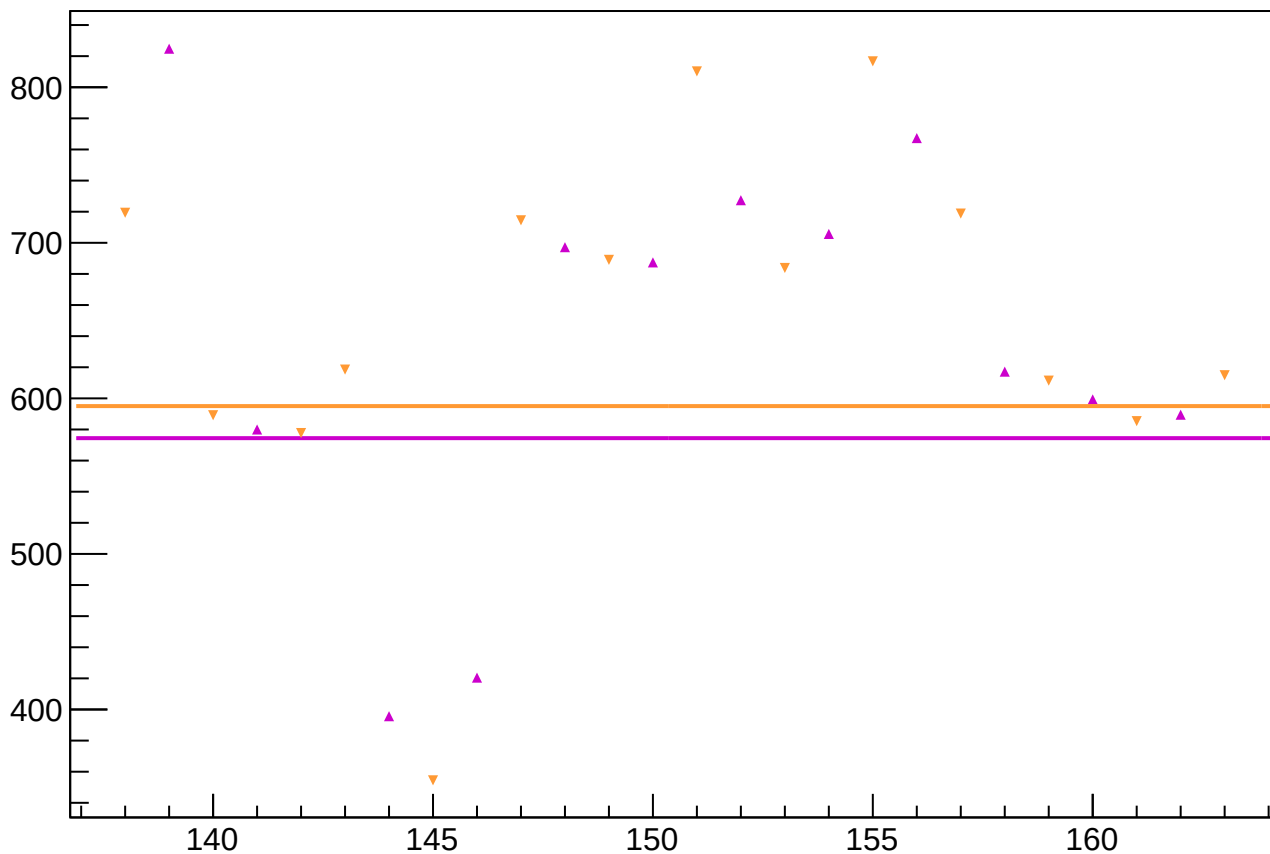
Left In: -128.873+/-189.345  $\chi^2/\text{NDF}$ : 10.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 387.656+/-133.717  $\chi^2/\text{NDF}$ : 53.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_3726\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 595.031+/-0.134  $\chi^2/\text{NDF}$ :1111248.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 574.423+/-0.134  $\chi^2/\text{NDF}$ :1024761.7/11

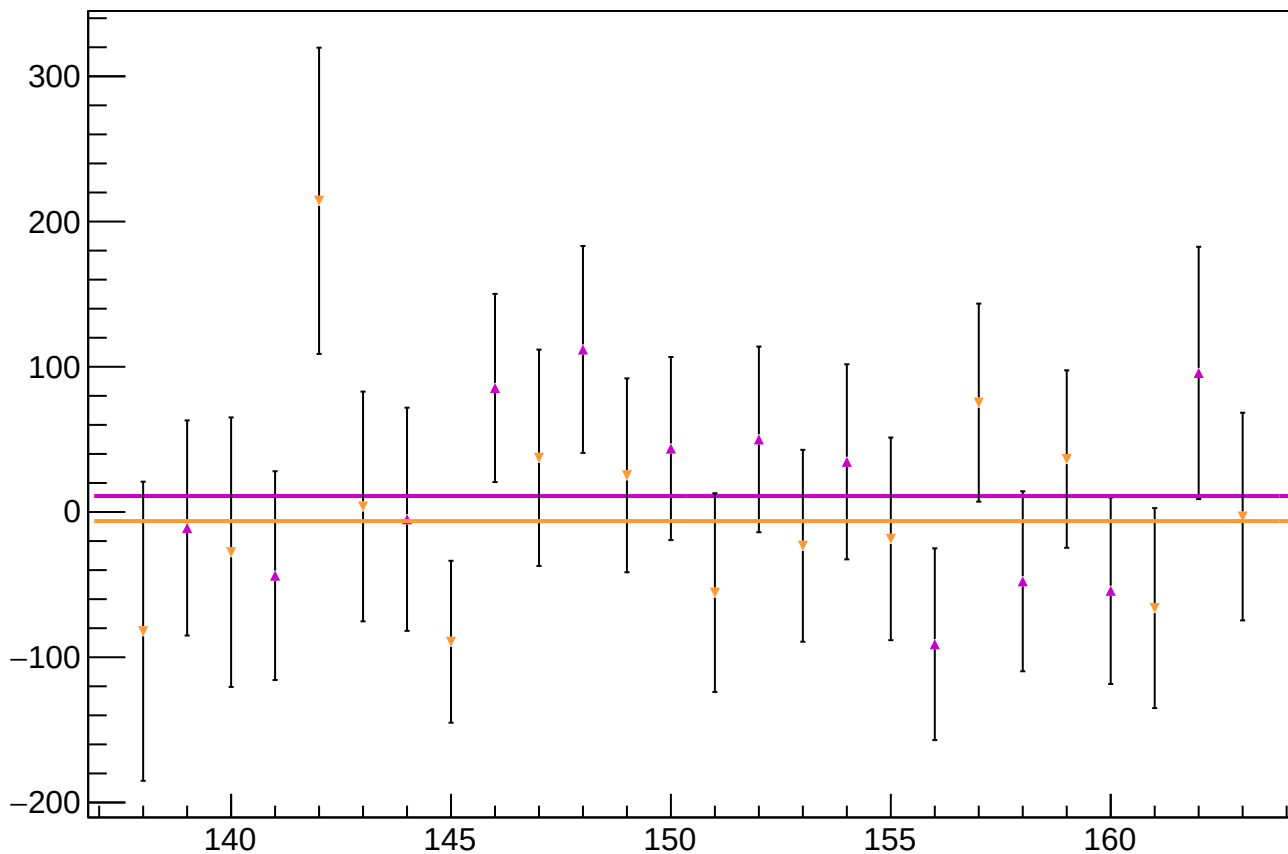
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 584.753+/-0.095  $\chi^2/\text{NDF}$ : 2147885.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



dit\_asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -6.226+/-19.158  $\chi^2/\text{NDF}$ : 11.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

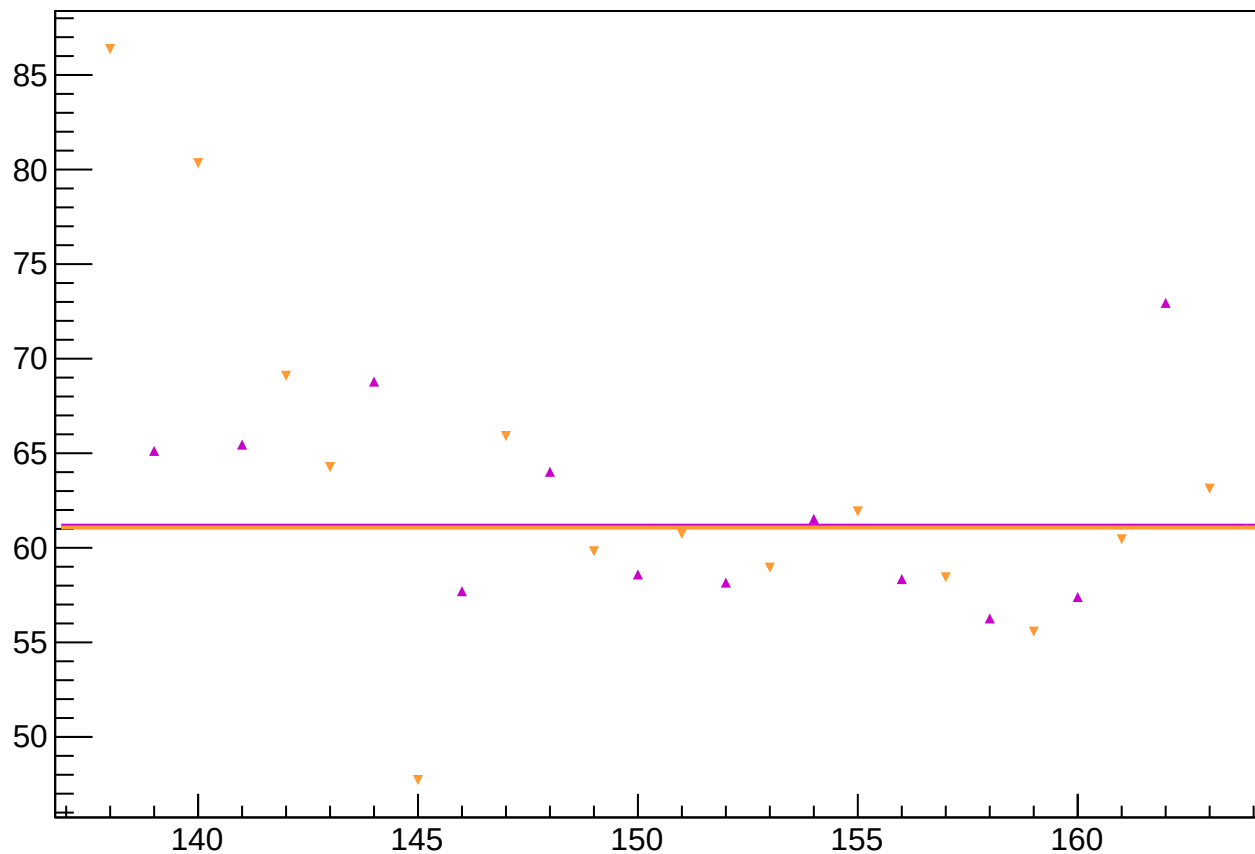
Left In: 11.011+/-19.749  $\chi^2/\text{NDF}$ : 10.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.130+/-13.751  $\chi^2/\text{NDF}$ : 21.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 61.071+/-0.014  $\chi^2/\text{NDF}$ : 369085.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

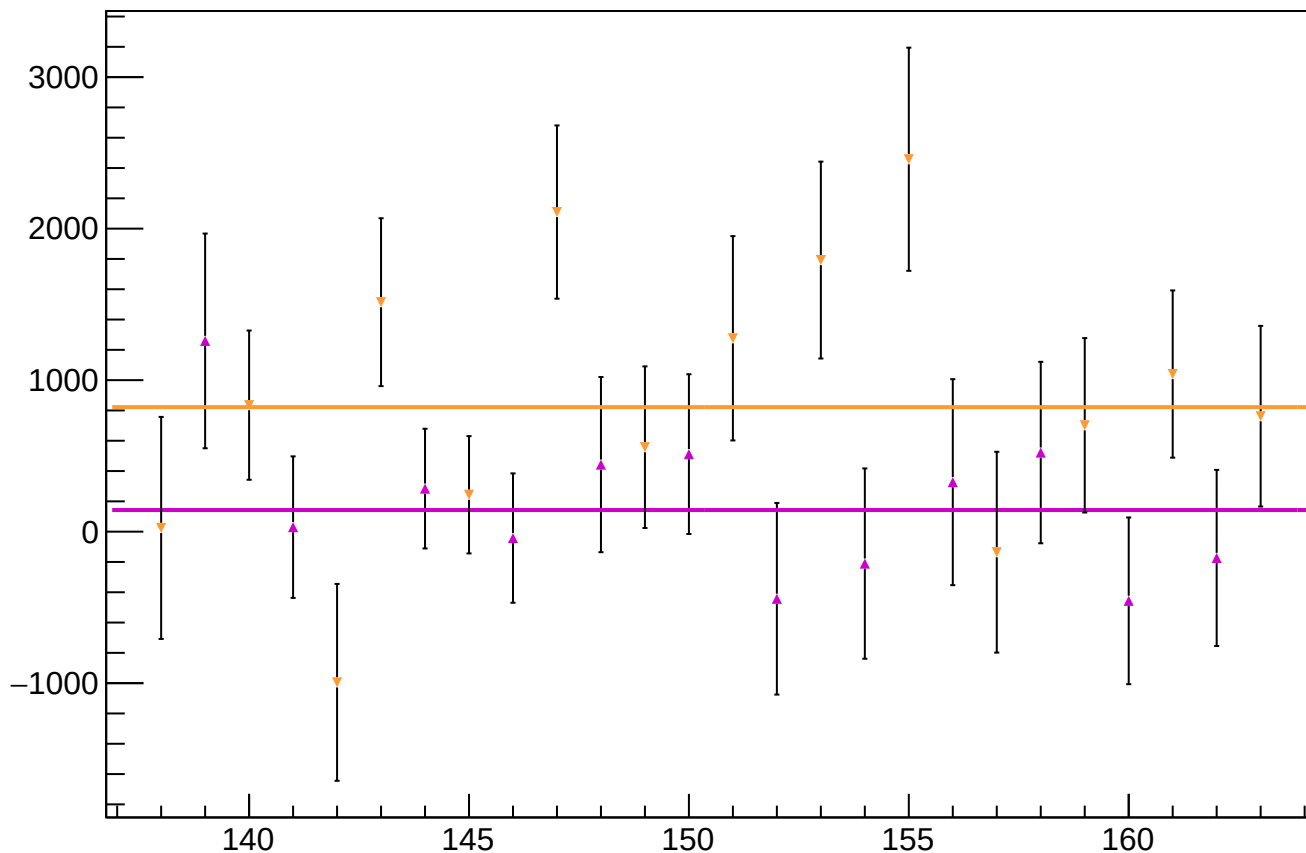
Left In: 61.170+/-0.014  $\chi^2/\text{NDF}$ : 109111.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 61.119+/-0.010  $\chi^2/\text{NDF}$ : 478222.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 821.763+/-153.105  $\chi^2/\text{NDF}$ : 28.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

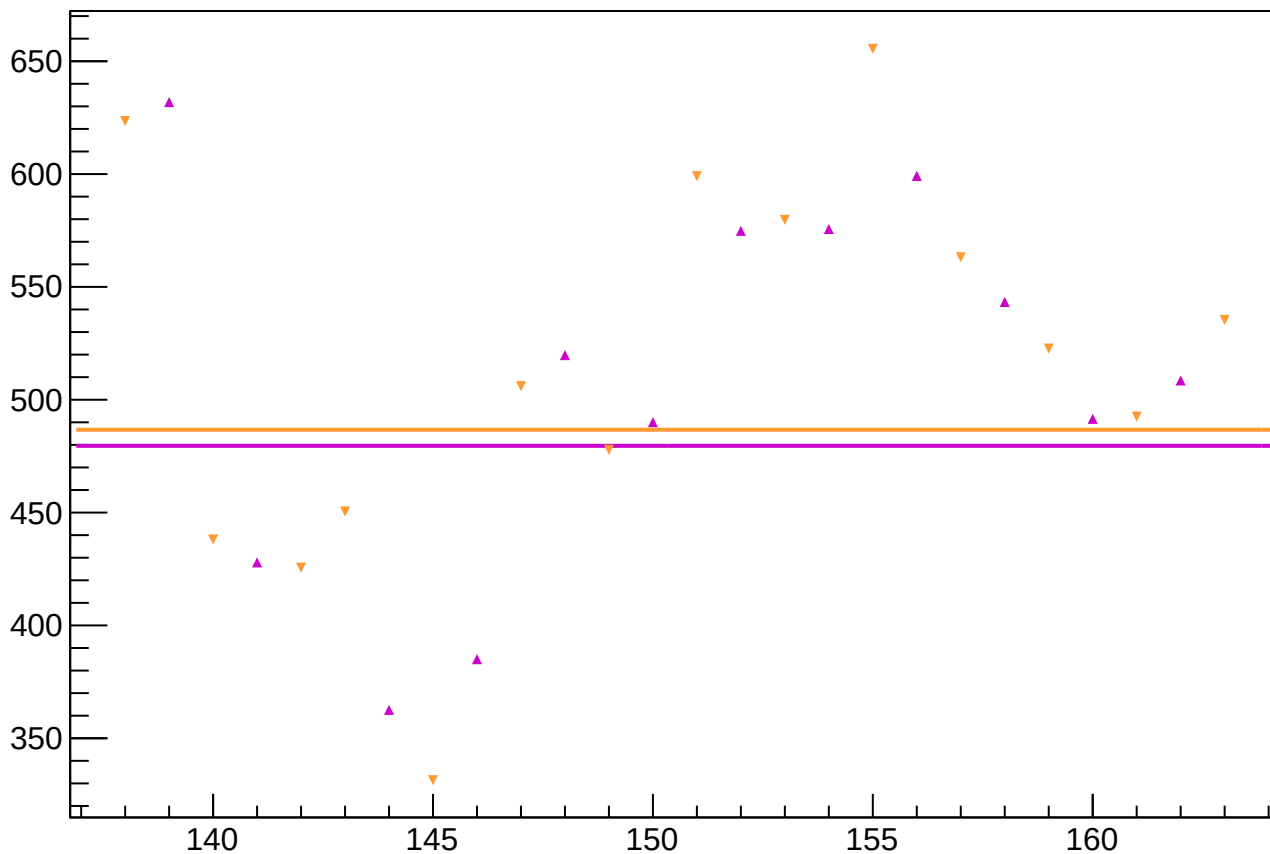
Left In: 142.755+/-155.587  $\chi^2/\text{NDF}$ : 6.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 487.718+/-109.128  $\chi^2/\text{NDF}$ : 44.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 486.714+/-0.108  $\chi^2/\text{NDF}$ : 689420.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

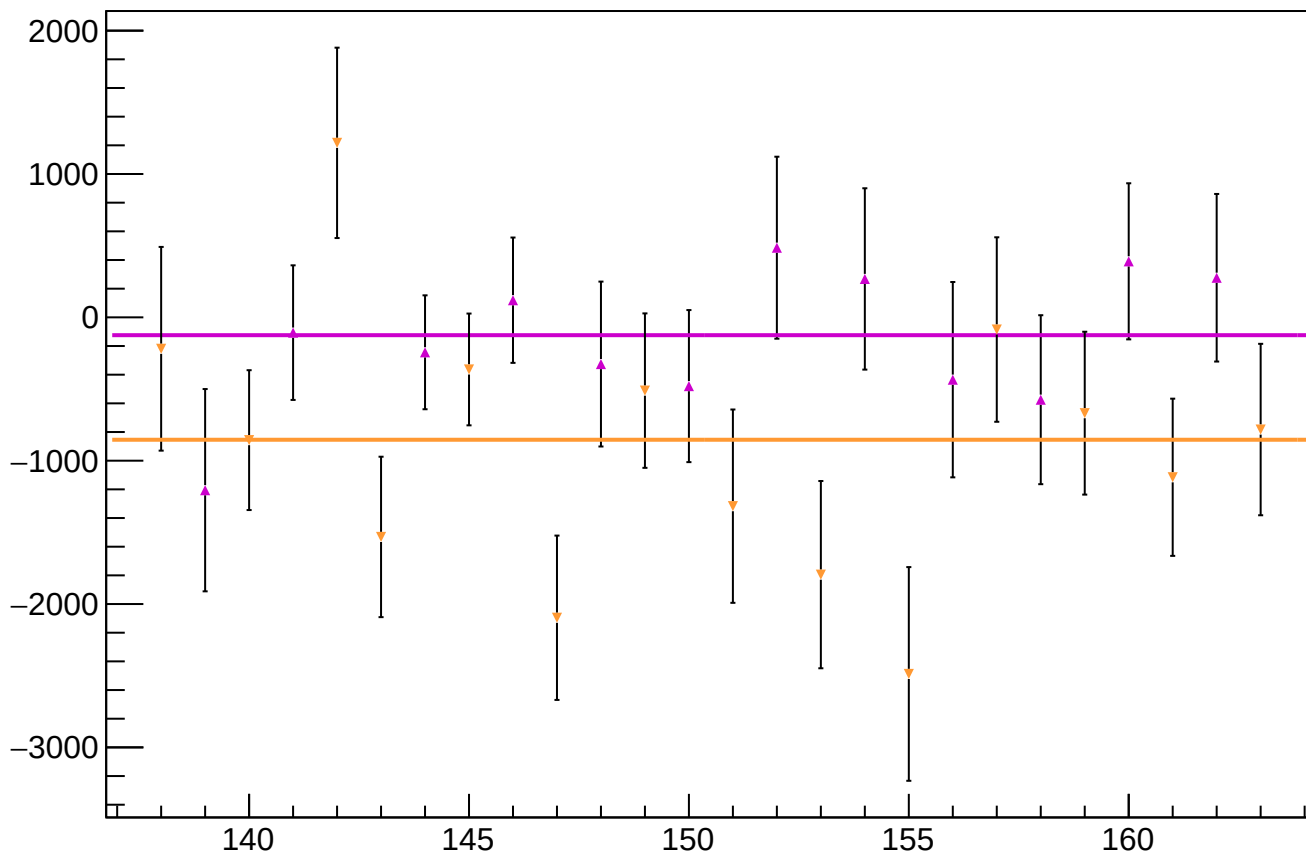
Left In: 479.582+/-0.110  $\chi^2/\text{NDF}$ : 583538.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 483.205+/-0.077  $\chi^2/\text{NDF}$ : 1275094.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -853.925+/-153.050  $\chi^2/\text{NDF}$ : 27.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

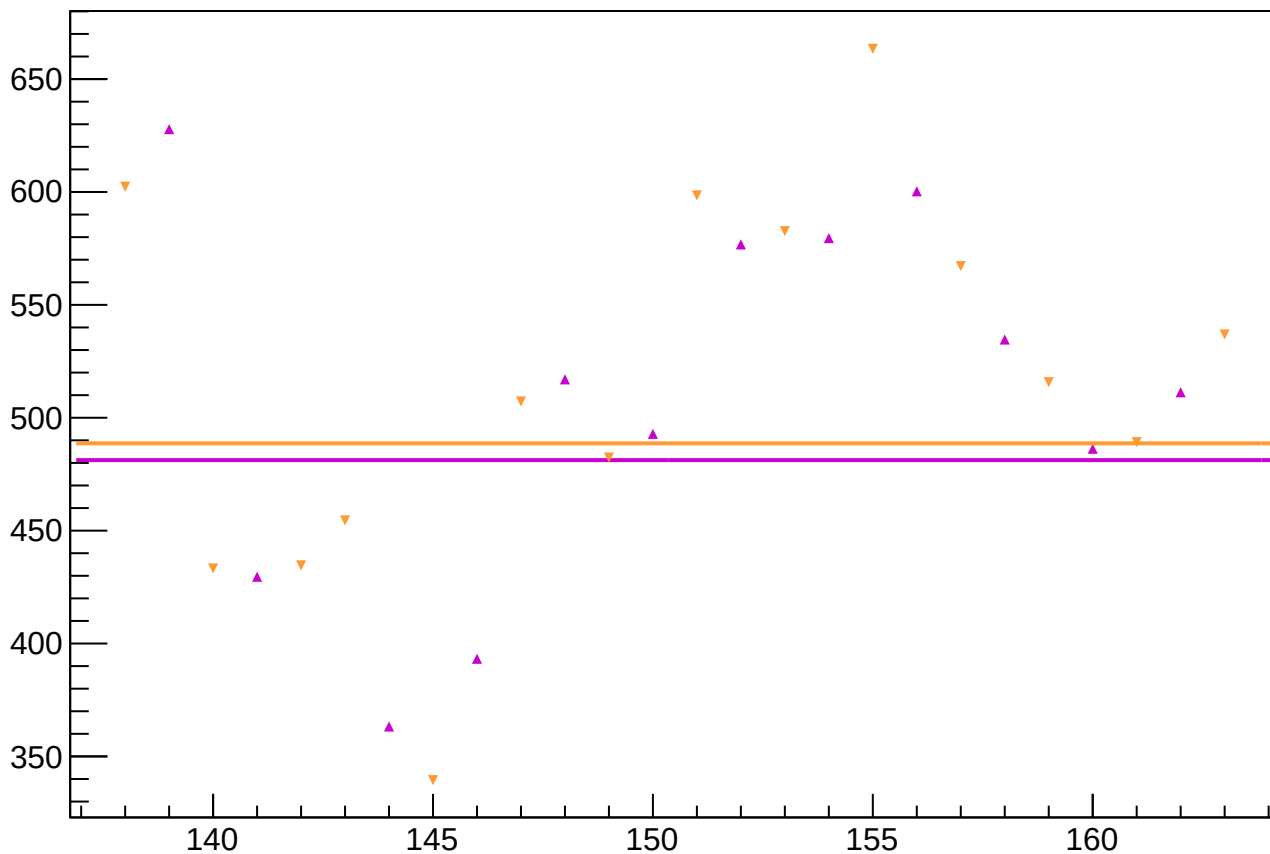
Left In: -124.423+/-156.167  $\chi^2/\text{NDF}$ : 6.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -496.527+/-109.308  $\chi^2/\text{NDF}$ : 45.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 488.671+/-0.108  $\chi^2/\text{NDF}$ : 644511.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

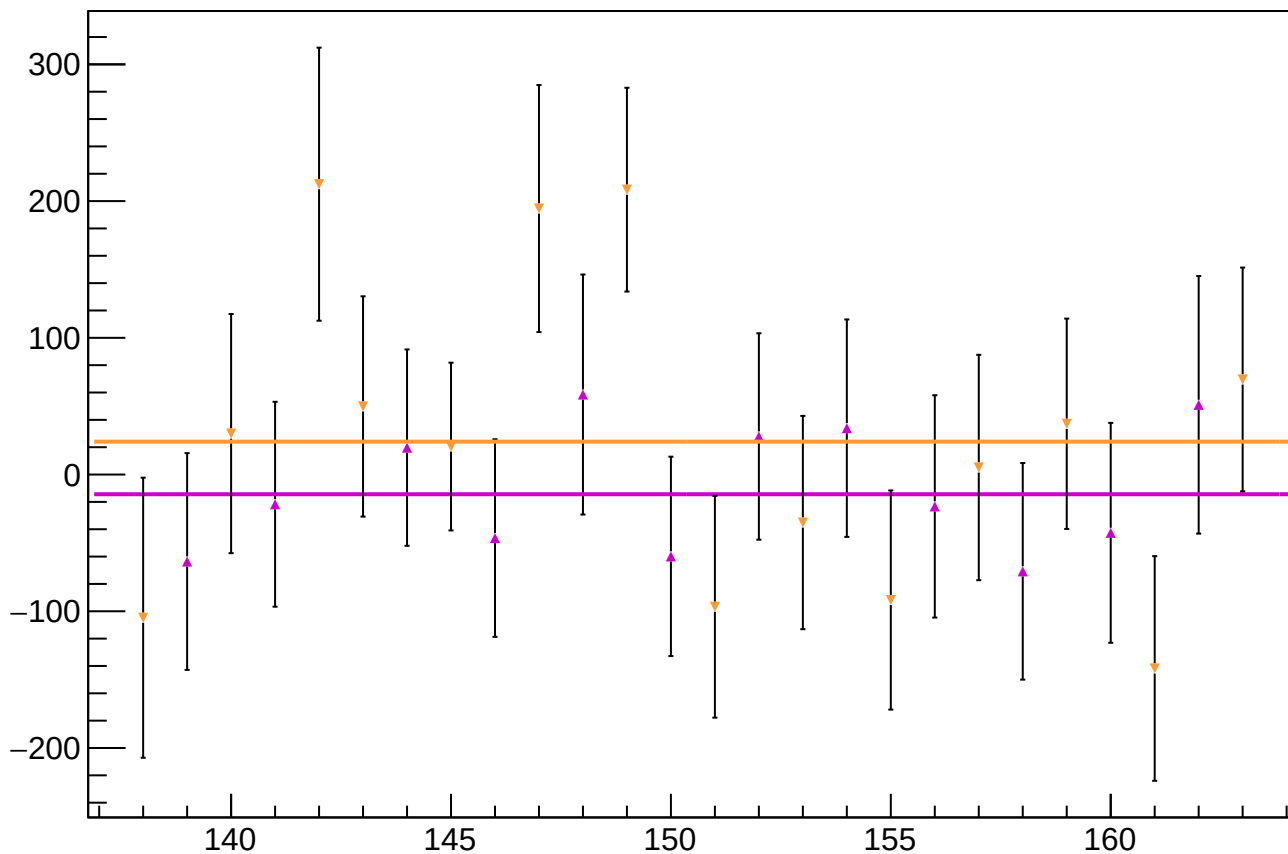
Left In: 481.233+/-0.110  $\chi^2/\text{NDF}$ : 553194.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 485.027+/-0.077  $\chi^2/\text{NDF}$ : 1200020.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 24.067+/-21.646  $\chi^2/\text{NDF}$ : 24.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

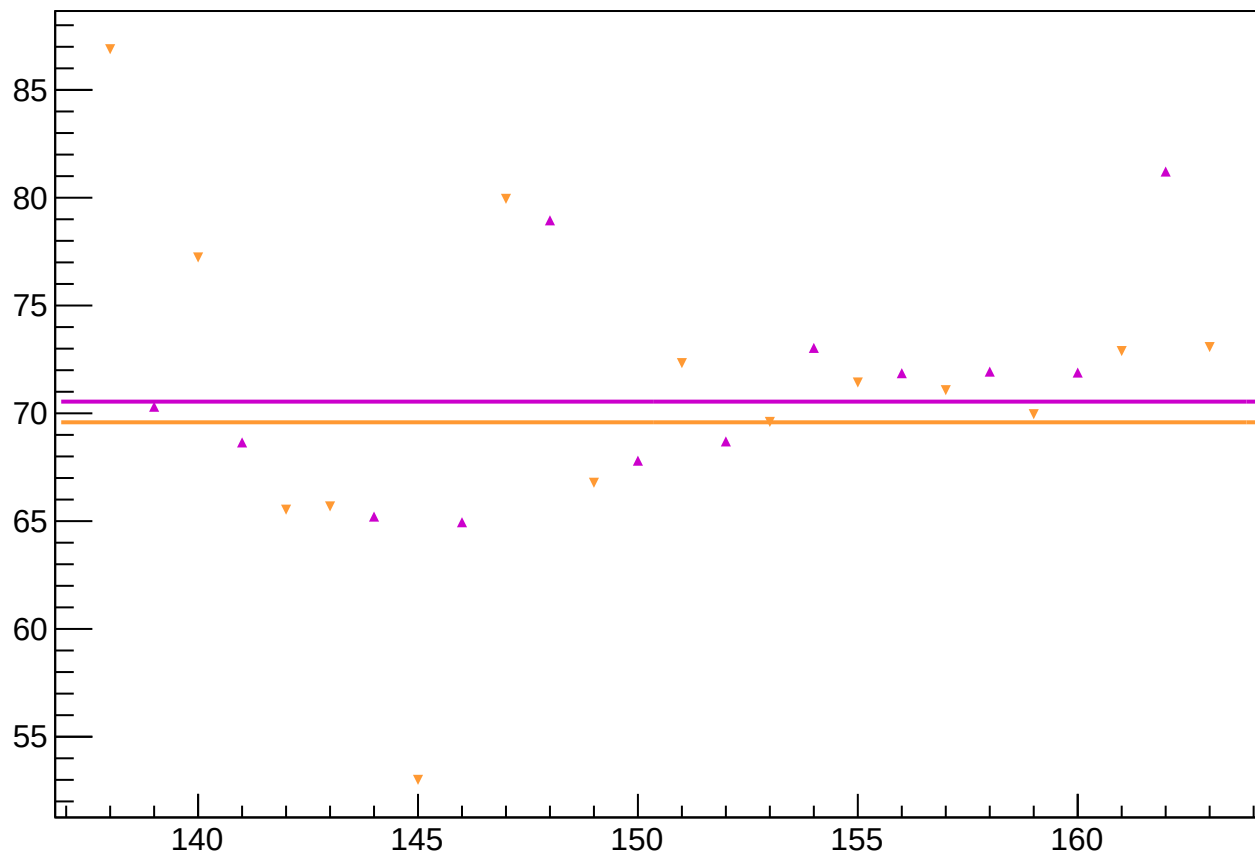
Left In: -14.407+/-22.634  $\chi^2/\text{NDF}$ : 3.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.688+/-15.643  $\chi^2/\text{NDF}$ : 29.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 69.584±/-0.015  $\chi^2/\text{NDF}$ :266532.5/13

Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 70.543±/-0.016  $\chi^2/\text{NDF}$ :76013.8/11

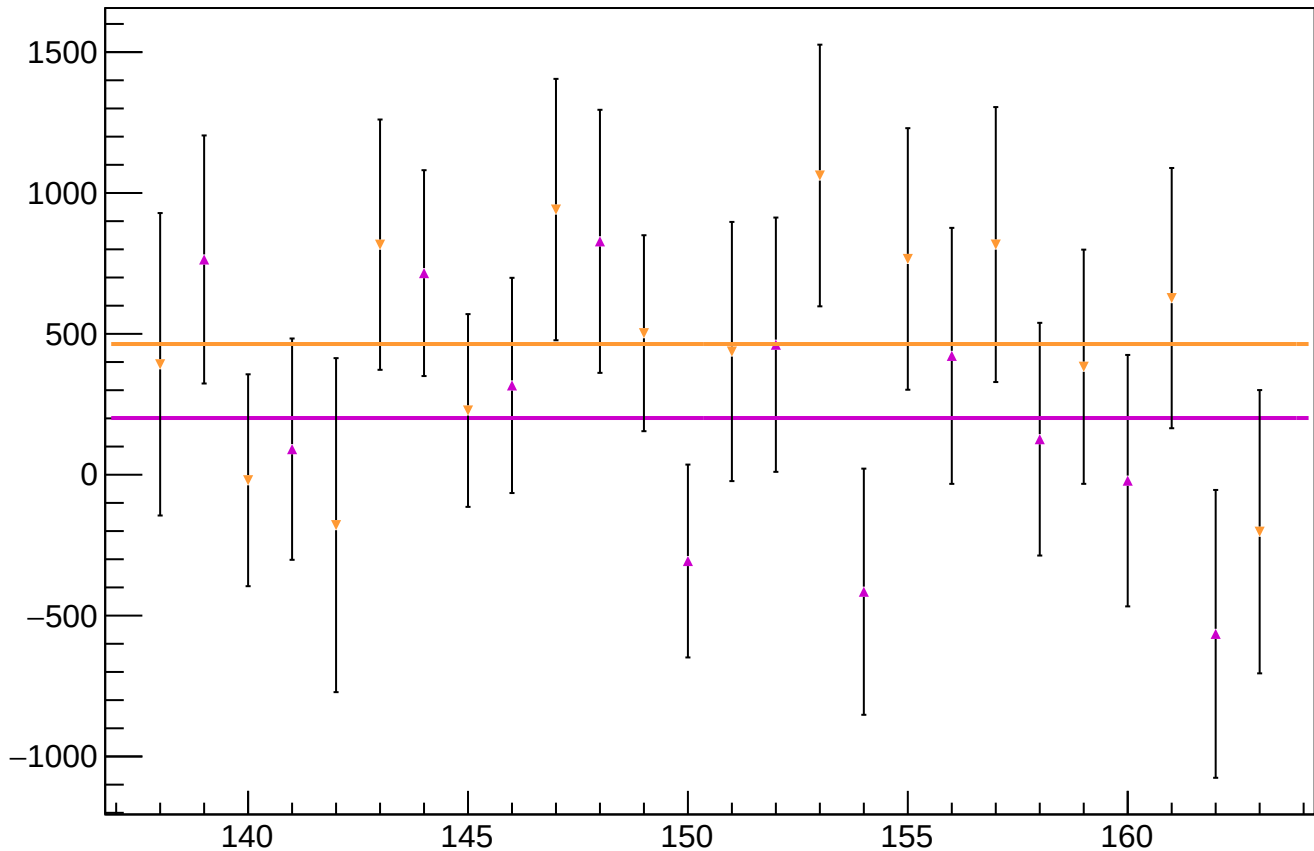
+ sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 70.042±/-0.011  $\chi^2/\text{NDF}$ : 344421.4/25

- sign 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_37\_48\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 463.955 $\pm$ 117.401  $\chi^2$ /NDF:9.6/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

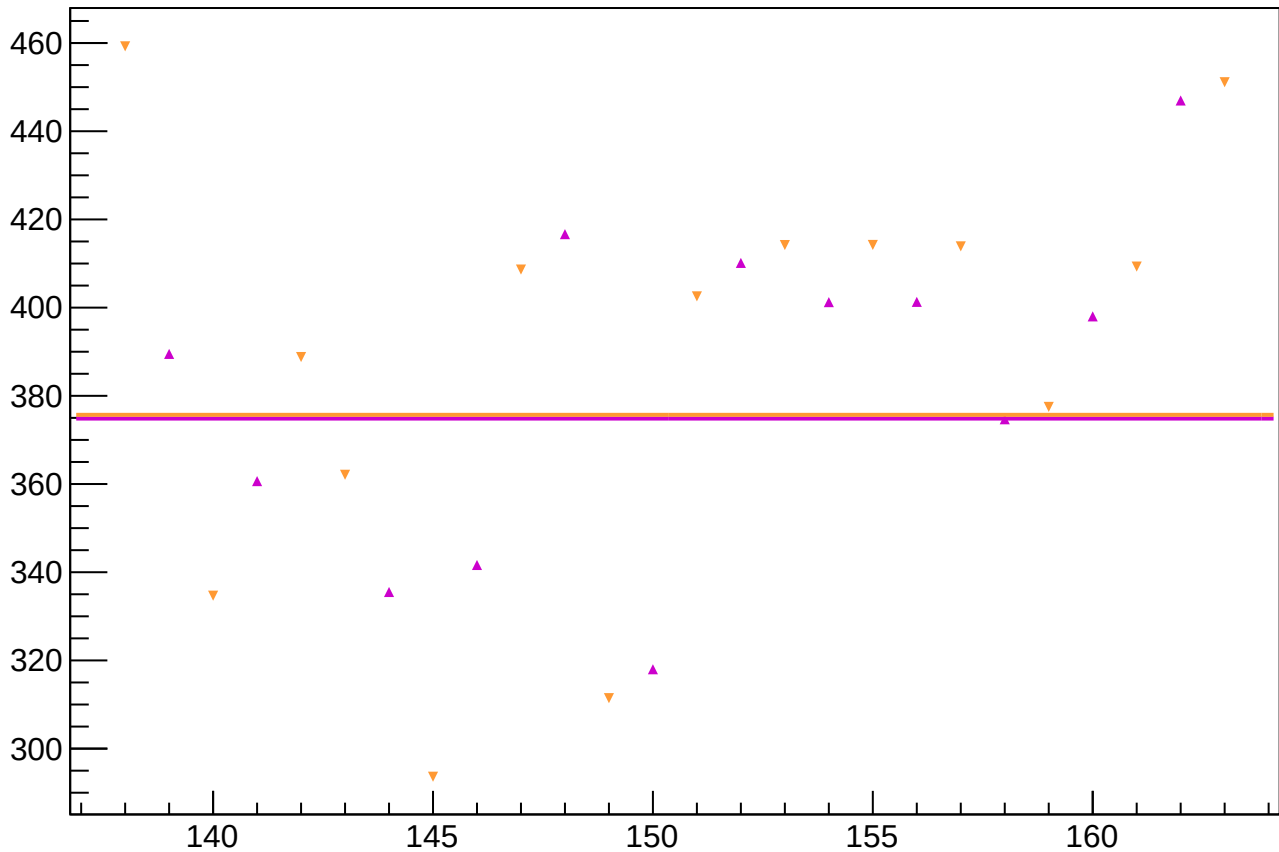
Left In: 201.306 $\pm$ 120.539  $\chi^2$ /NDF:12.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 336.094 $\pm$ 84.103  $\chi^2$ /NDF: 24.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_48\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 375.692+/-0.083  $\chi^2/\text{NDF}$ : 370775.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

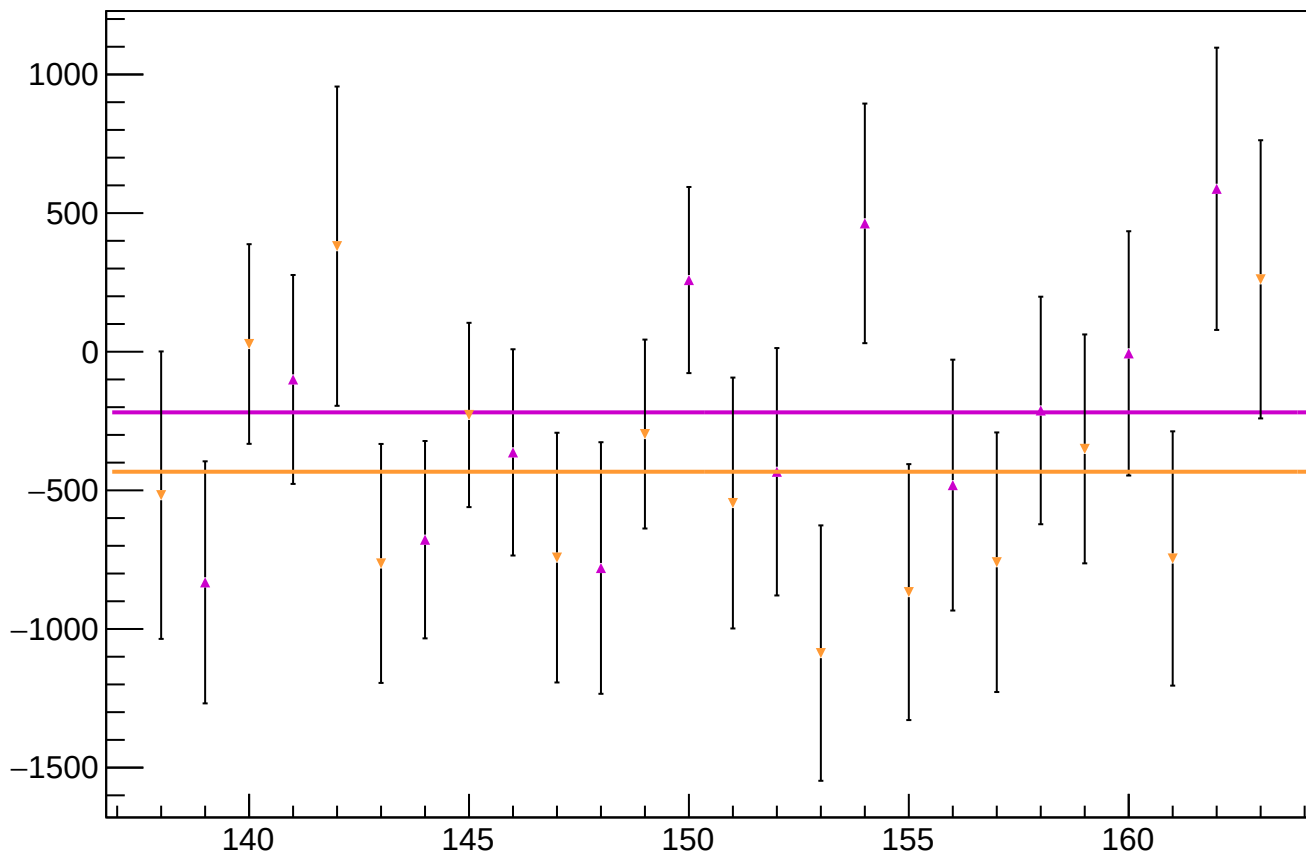
Left In: 374.843+/-0.085  $\chi^2/\text{NDF}$ : 185925.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 375.279+/-0.059  $\chi^2/\text{NDF}$ : 556752.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -432.825+/-114.792  $\chi^2/\text{NDF}$ : 11.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

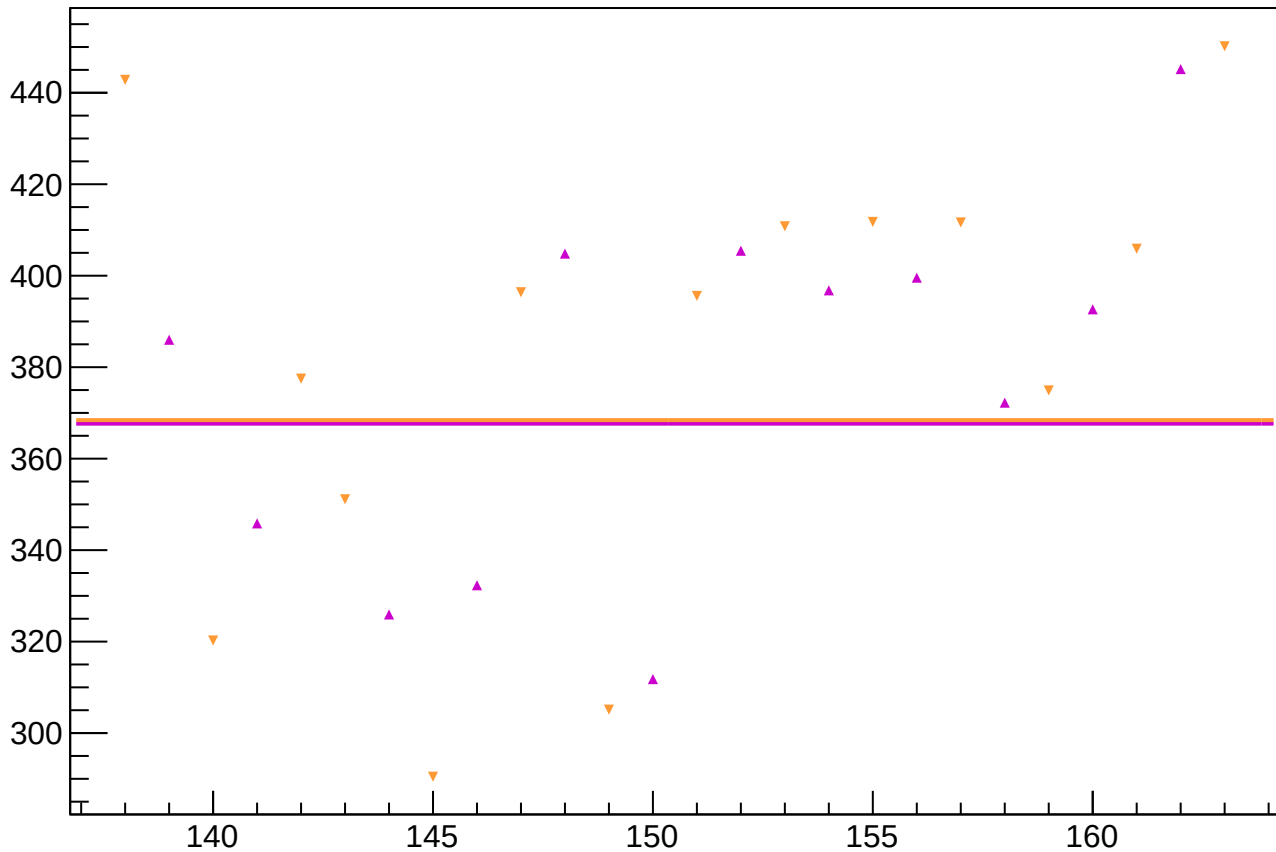
Left In: -218.686+/-118.376  $\chi^2/\text{NDF}$ : 13.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -329.046+/-82.408  $\chi^2/\text{NDF}$ : 26.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_48\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 368.423+/-0.081  $\chi^2/\text{NDF}$ : 393312.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

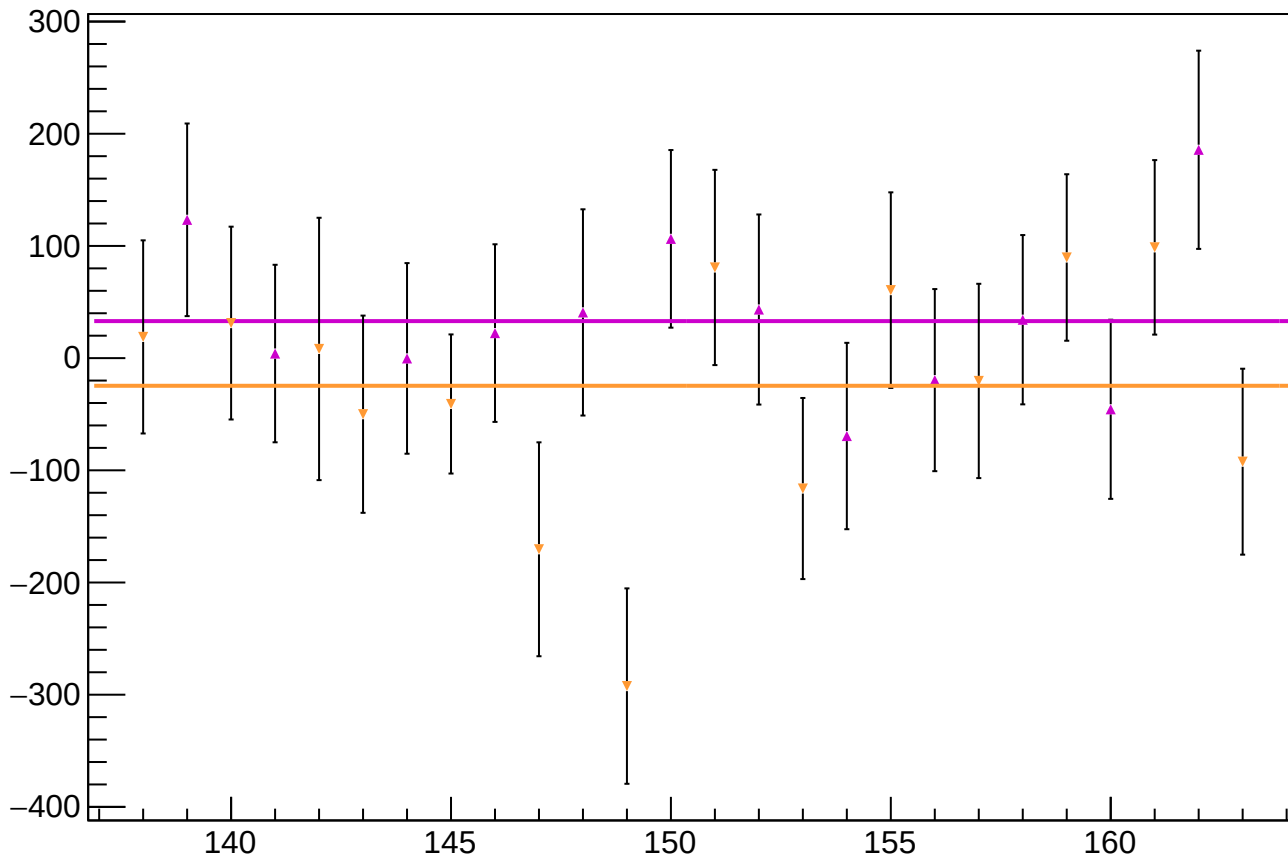
Left In: 367.656+/-0.084  $\chi^2/\text{NDF}$ : 211043.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 368.051+/-0.058  $\chi^2/\text{NDF}$ : 604399.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -24.647+/-22.260  $\chi^2/\text{NDF}$ : 22.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

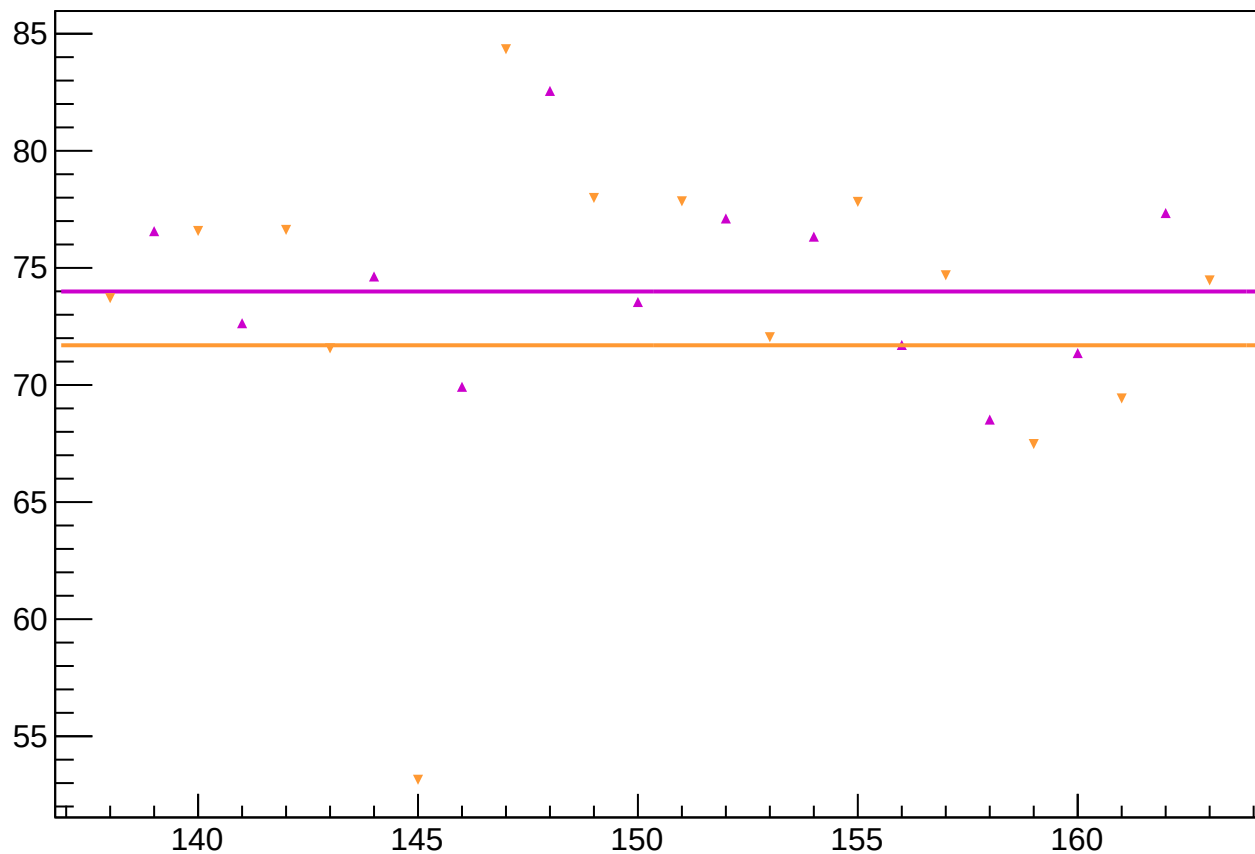
Left In: 33.000+/-23.781  $\chi^2/\text{NDF}$ : 8.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.274+/-16.251  $\chi^2/\text{NDF}$ : 33.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 71.696+/-0.016  $\chi^2/\text{NDF}$ : 268485.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

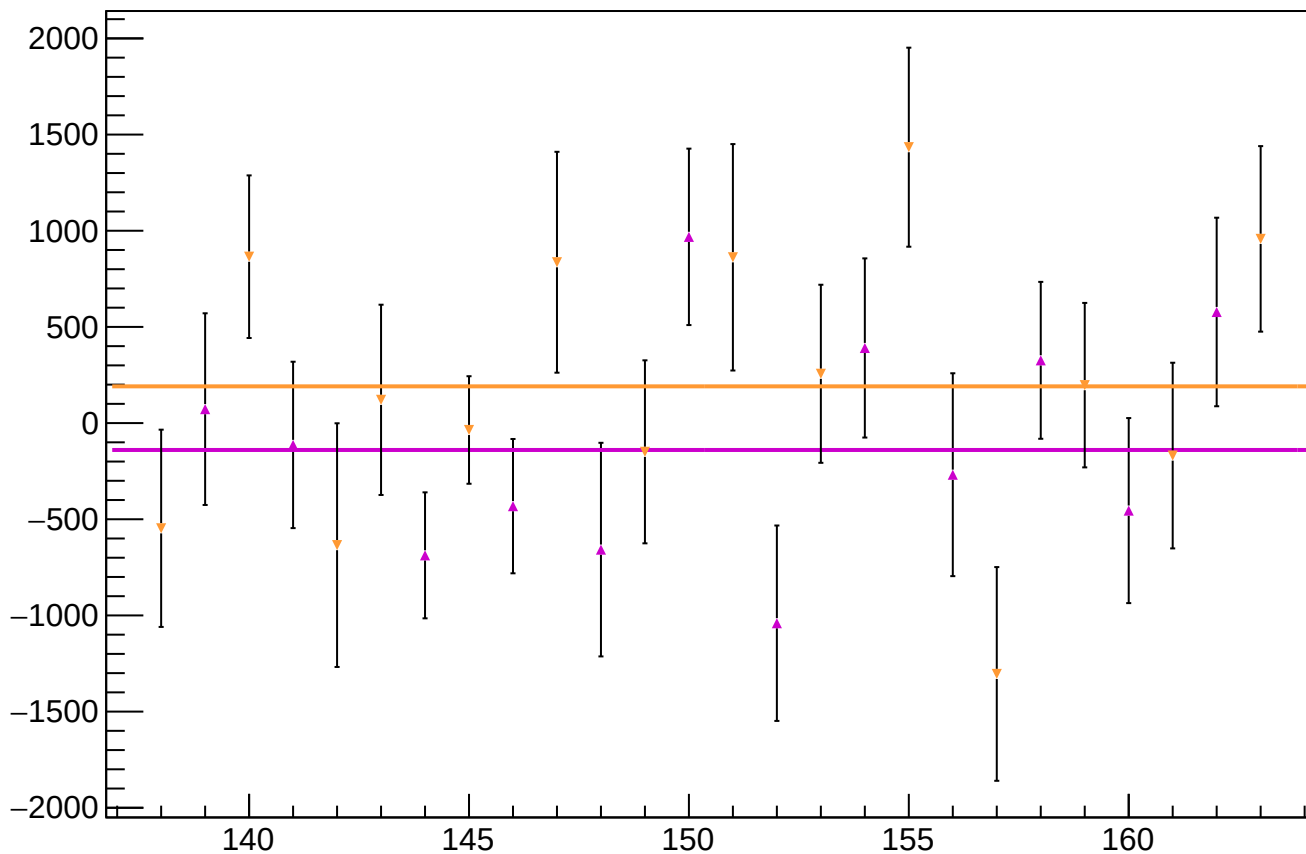
Left In: 73.993+/-0.017  $\chi^2/\text{NDF}$ : 46659.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 72.769+/-0.011  $\chi^2/\text{NDF}$ : 325087.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_15\_26\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 190.984 $\pm$ 124.208  $\chi^2$ /NDF:26.2/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

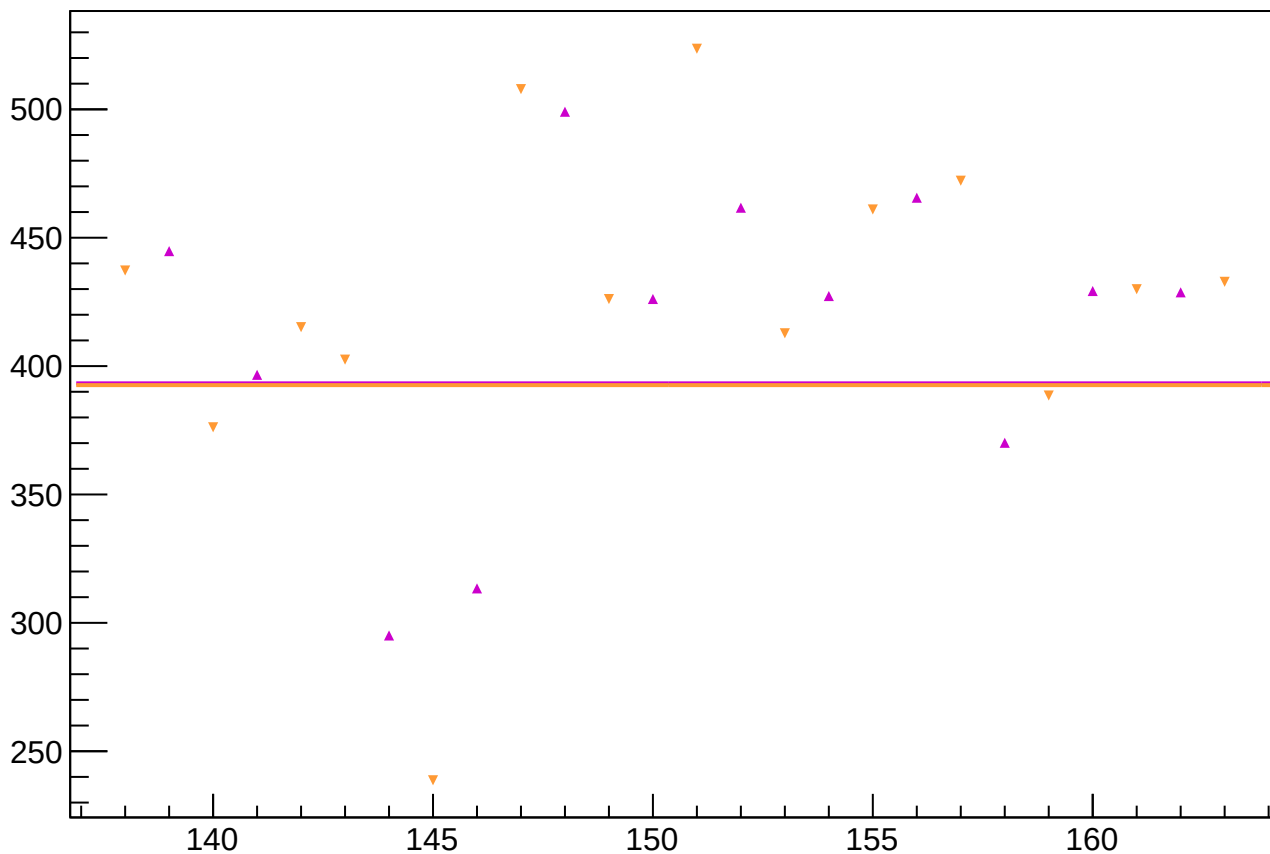
Left In: -139.799 $\pm$ 127.546  $\chi^2$ /NDF:18.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 29.977 $\pm$ 88.985  $\chi^2$ /NDF: 48.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 392.589+/-0.088  $\chi^2/\text{NDF}$ : 923340.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 393.280+/-0.090  $\chi^2/\text{NDF}$ : 501343.1/11

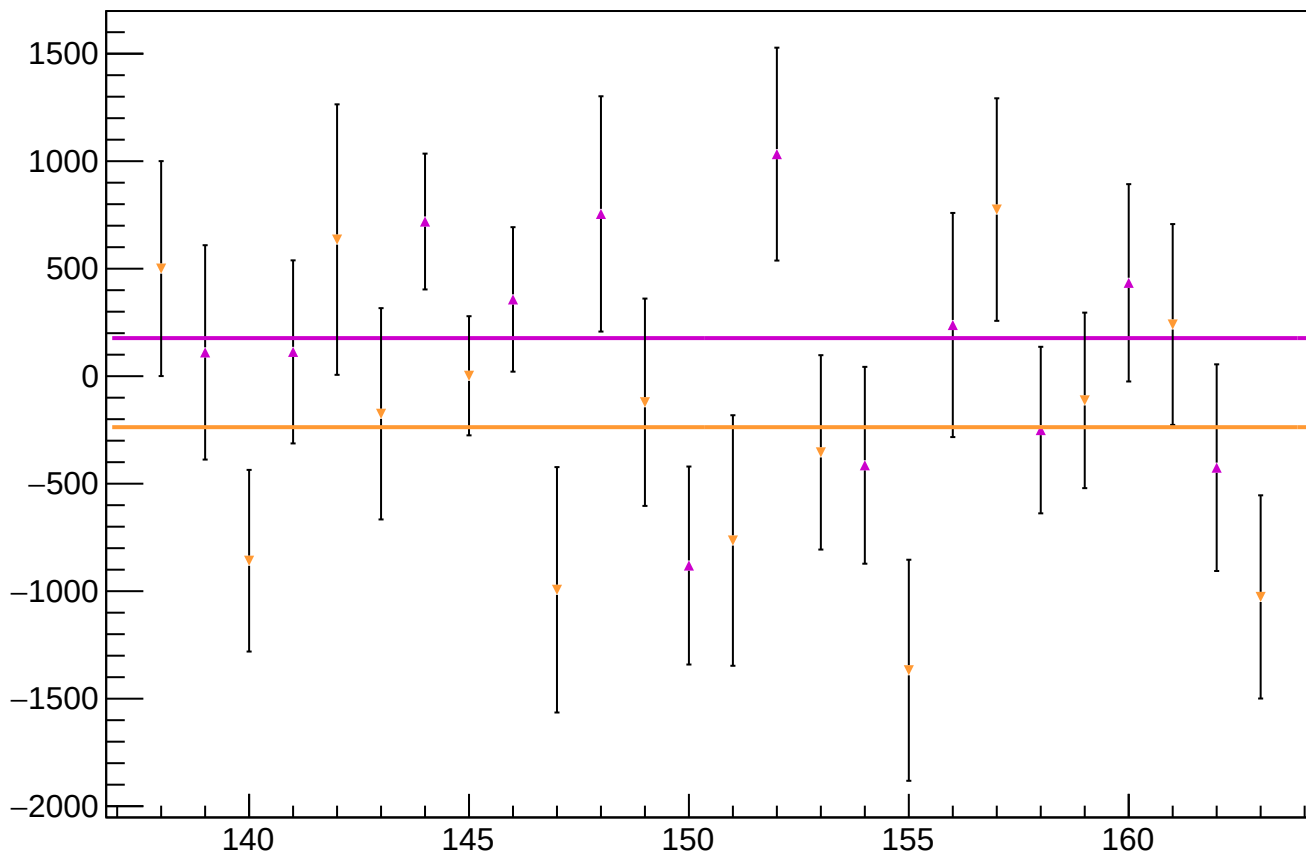
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 392.926+/-0.063  $\chi^2/\text{NDF}$ : 1424713.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_15\_26\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -237.153 $\pm$ 122.091  $\chi^2$ /NDF:22.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

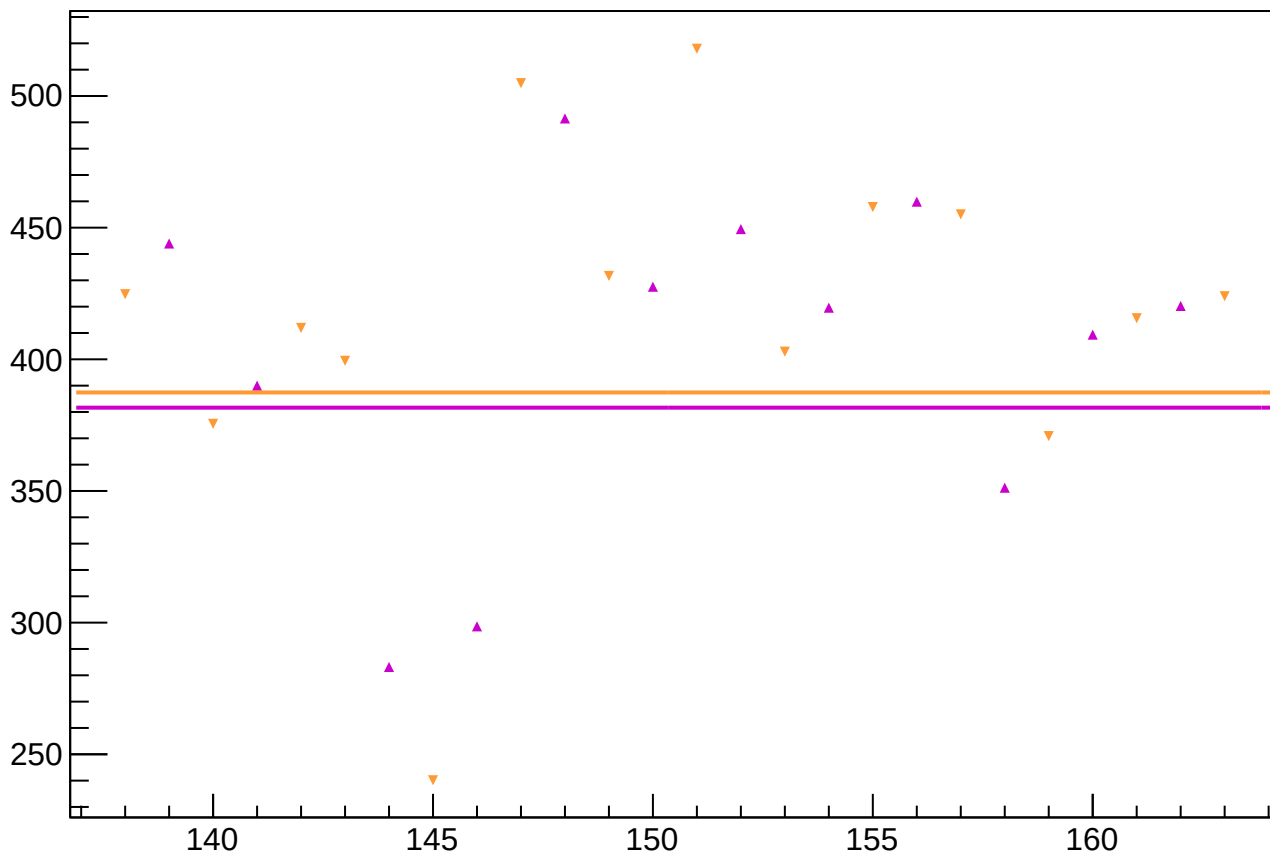
Left In: 177.123 $\pm$ 124.275  $\chi^2$ /NDF:17.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -33.687 $\pm$ 87.093  $\chi^2$ /NDF: 45.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_15\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 387.414+/-0.086  $\chi^2/\text{NDF}$ : 880414.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

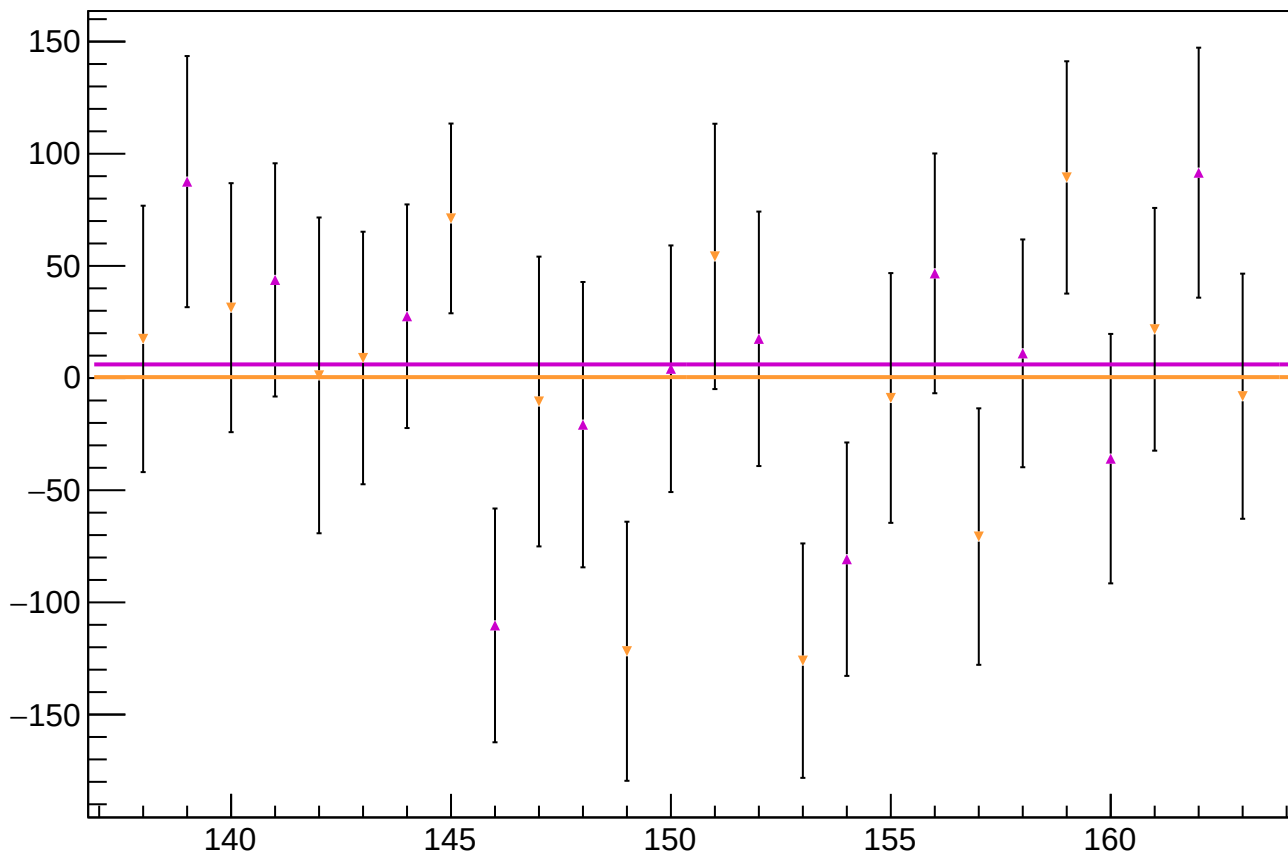
Left In: 381.641+/-0.088  $\chi^2/\text{NDF}$ : 577974.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 384.578+/-0.062  $\chi^2/\text{NDF}$ : 1460584.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.422 $\pm$ 14.818  $\chi^2$ /NDF:19.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

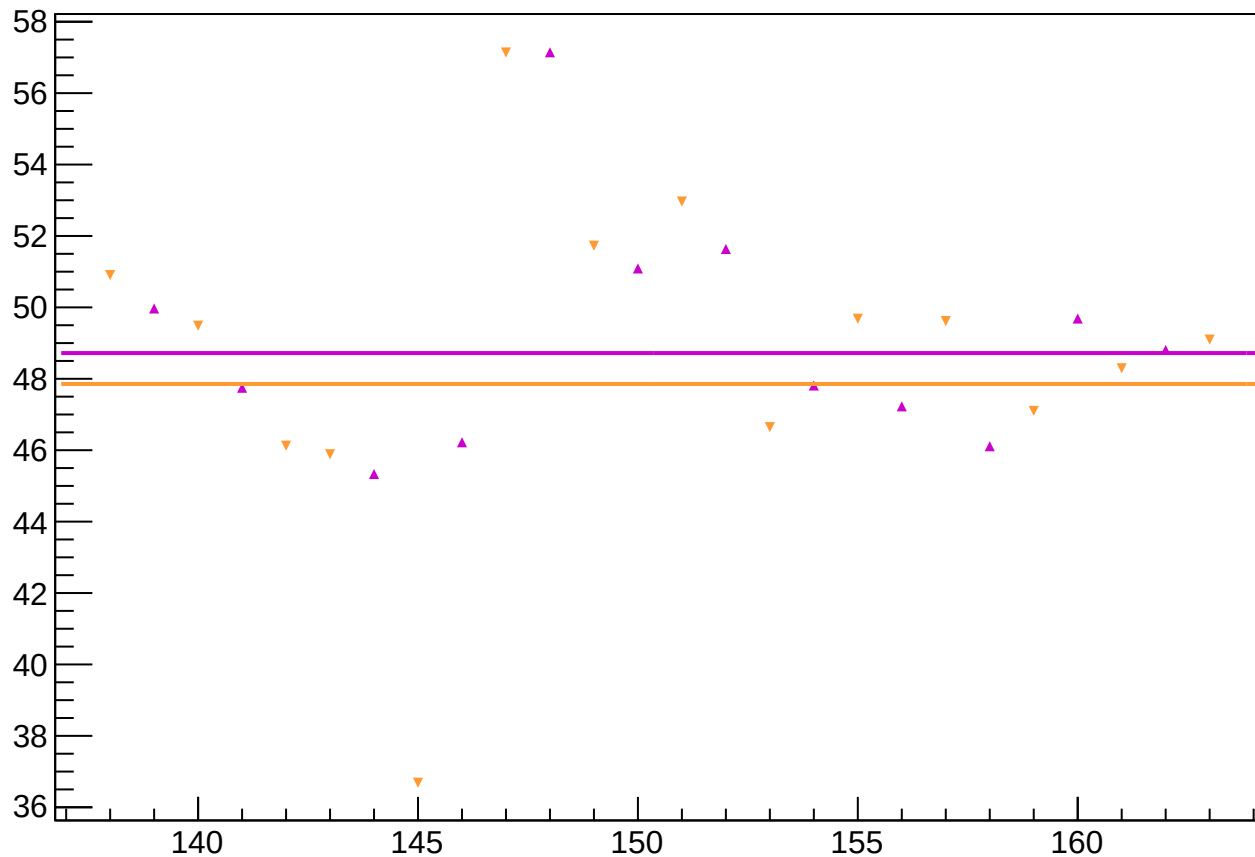
Left In: 6.086 $\pm$ 15.614  $\chi^2$ /NDF:14.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.106 $\pm$ 10.748  $\chi^2$ /NDF: 33.5/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 47.855+/-0.010  $\chi^2/\text{NDF}$ : 222040.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

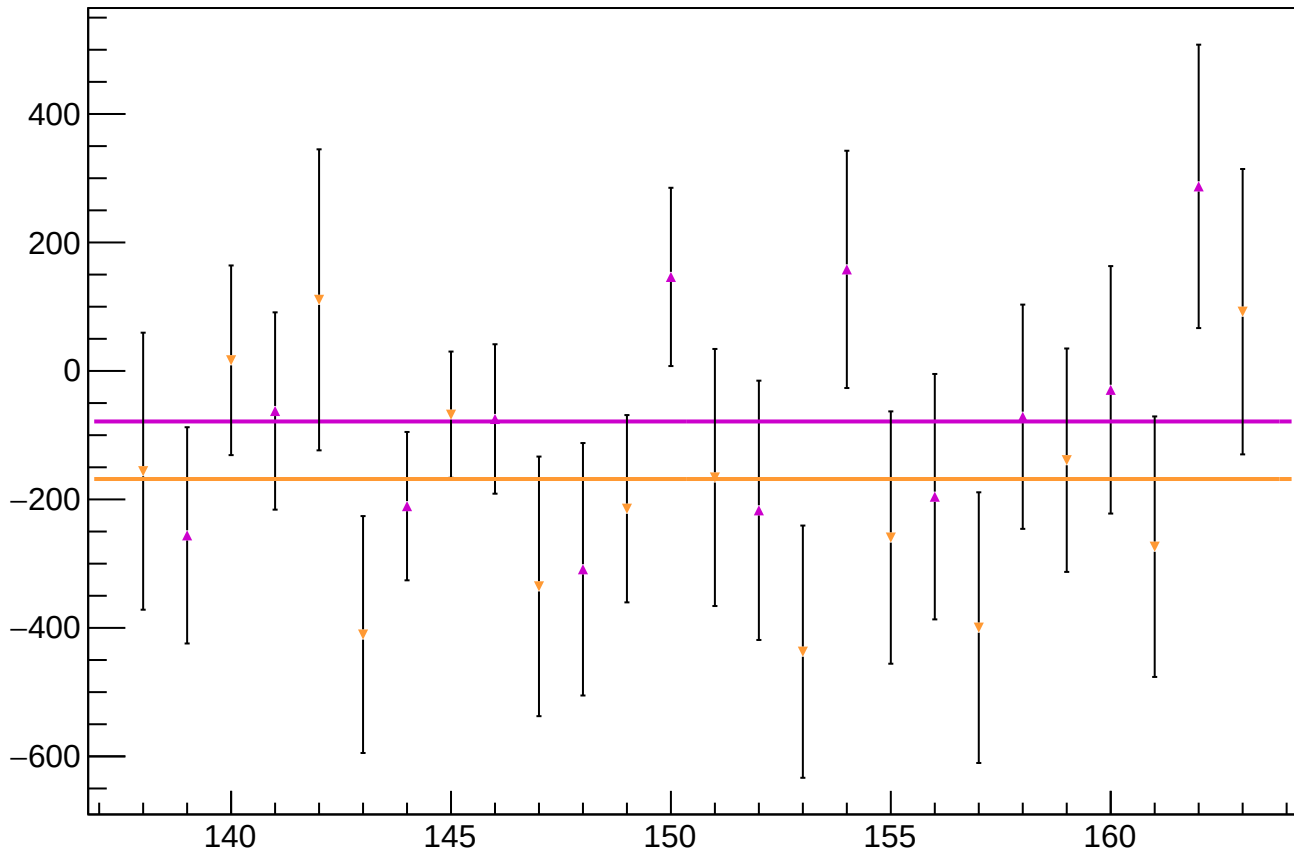
Left In: 48.721+/-0.011  $\chi^2/\text{NDF}$ : 67666.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 48.265+/-0.008  $\chi^2/\text{NDF}$ : 292942.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -168.230 $\pm$ 46.267  $\chi^2$ /NDF:11.5/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

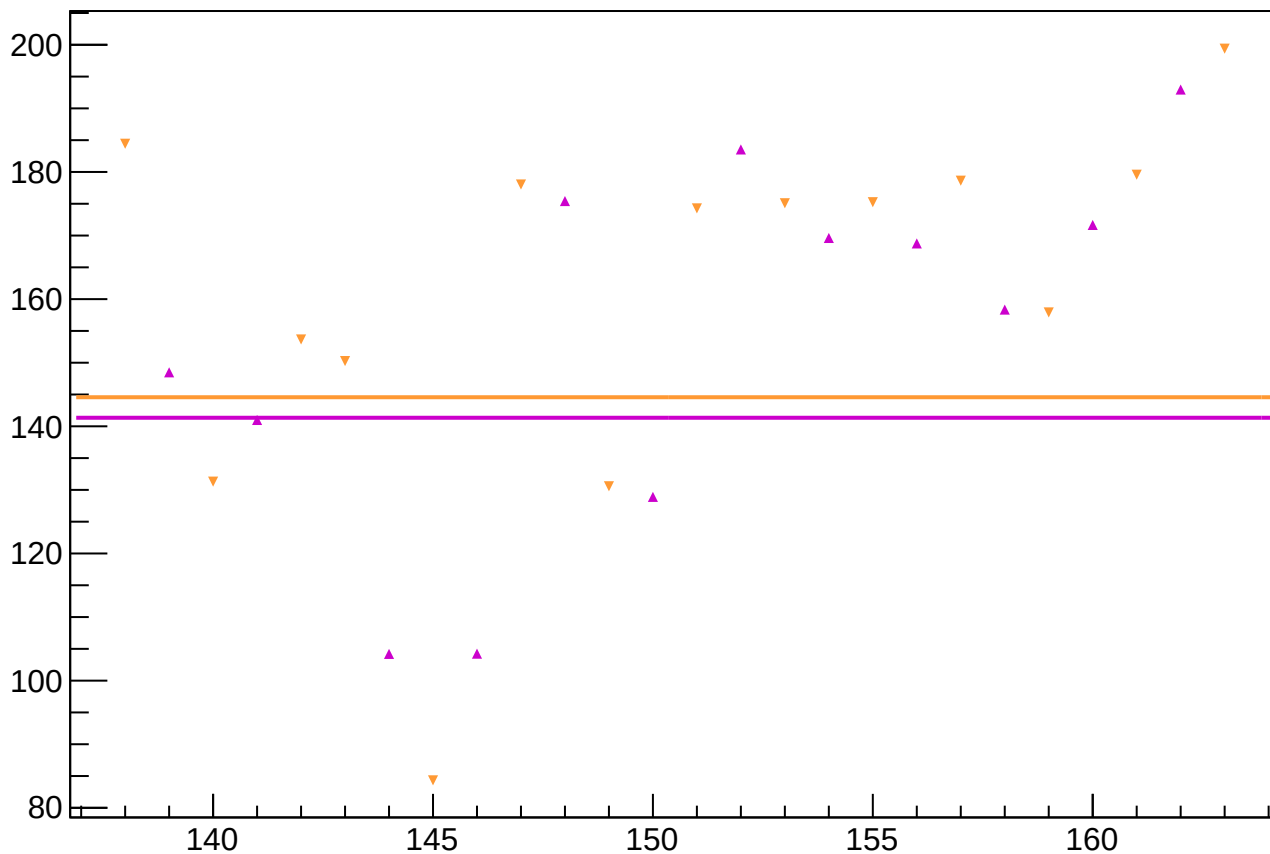
Left In: -78.665 $\pm$ 46.324  $\chi^2$ /NDF:11.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -123.503 $\pm$ 32.736  $\chi^2$ /NDF: 25.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_37\_26\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 144.571+/-0.033  $\chi^2/\text{NDF}$ :1301286.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

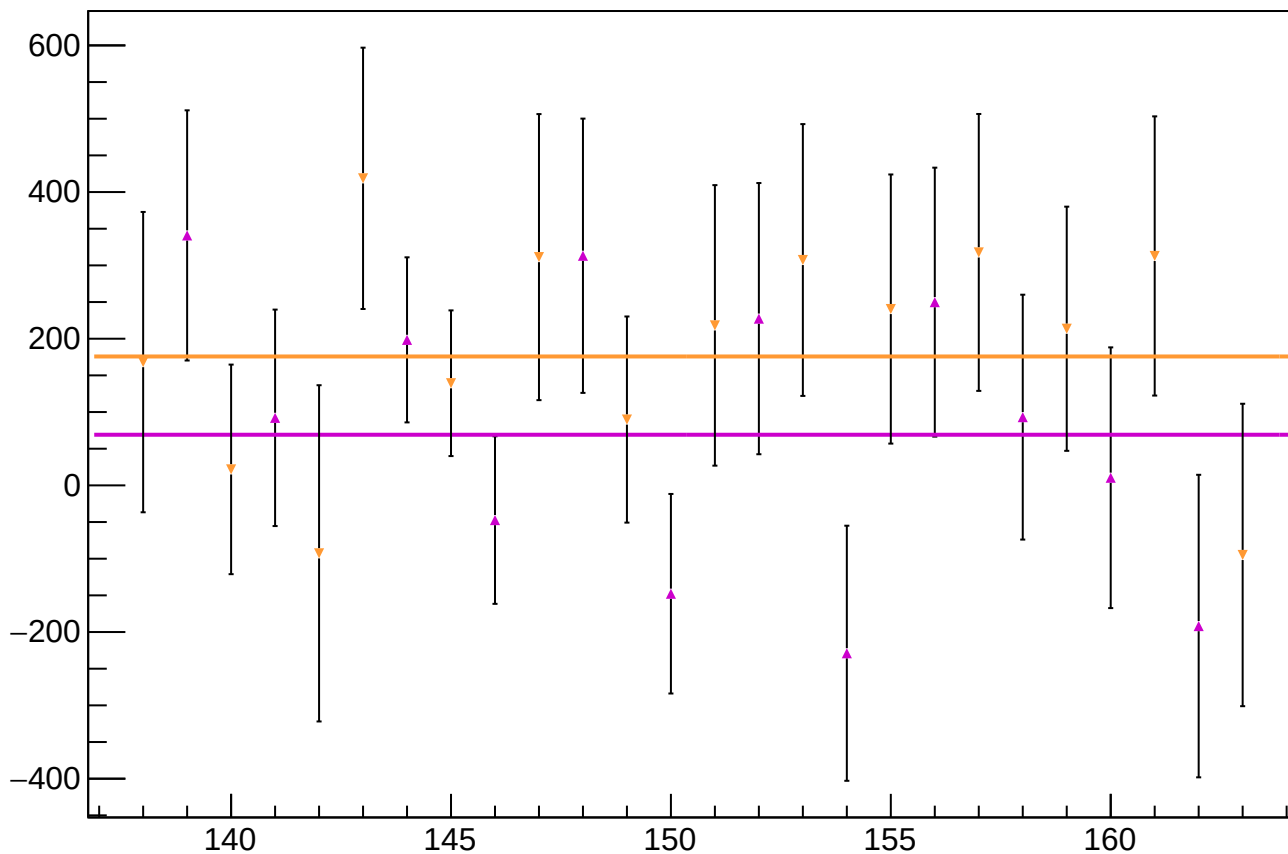
Left In: 141.344+/-0.033  $\chi^2/\text{NDF}$ :843721.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 142.960+/-0.023  $\chi^2/\text{NDF}$ : 2149865.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 175.780+/-44.589  $\chi^2/\text{NDF}$ : 8.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

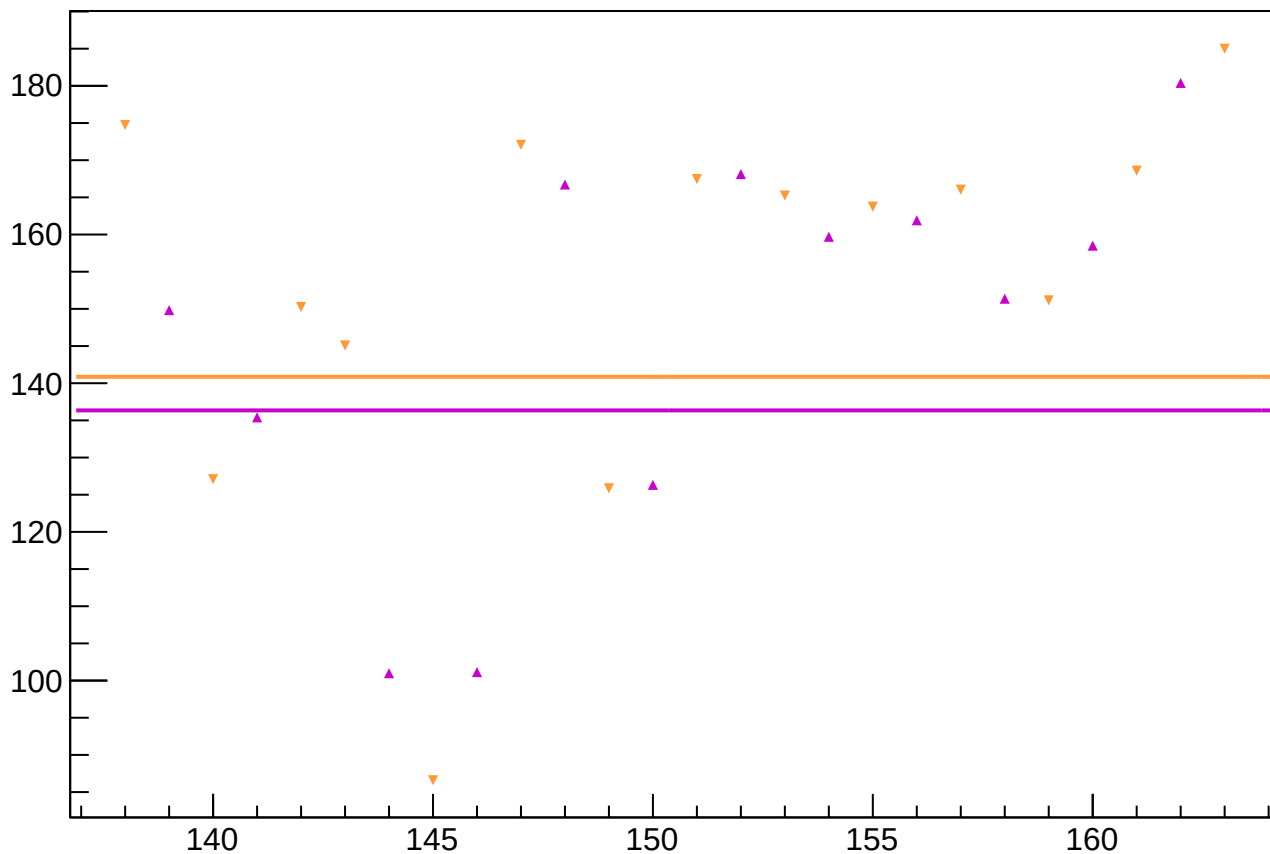
Left In: 69.044+/-44.656  $\chi^2/\text{NDF}$ : 15.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 122.492+/-31.553  $\chi^2/\text{NDF}$ : 27.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_37\_26\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 140.863+/-0.032  $\chi^2/\text{NDF}$ :1030462.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 136.343+/-0.032  $\chi^2/\text{NDF}$ :735989.6/11

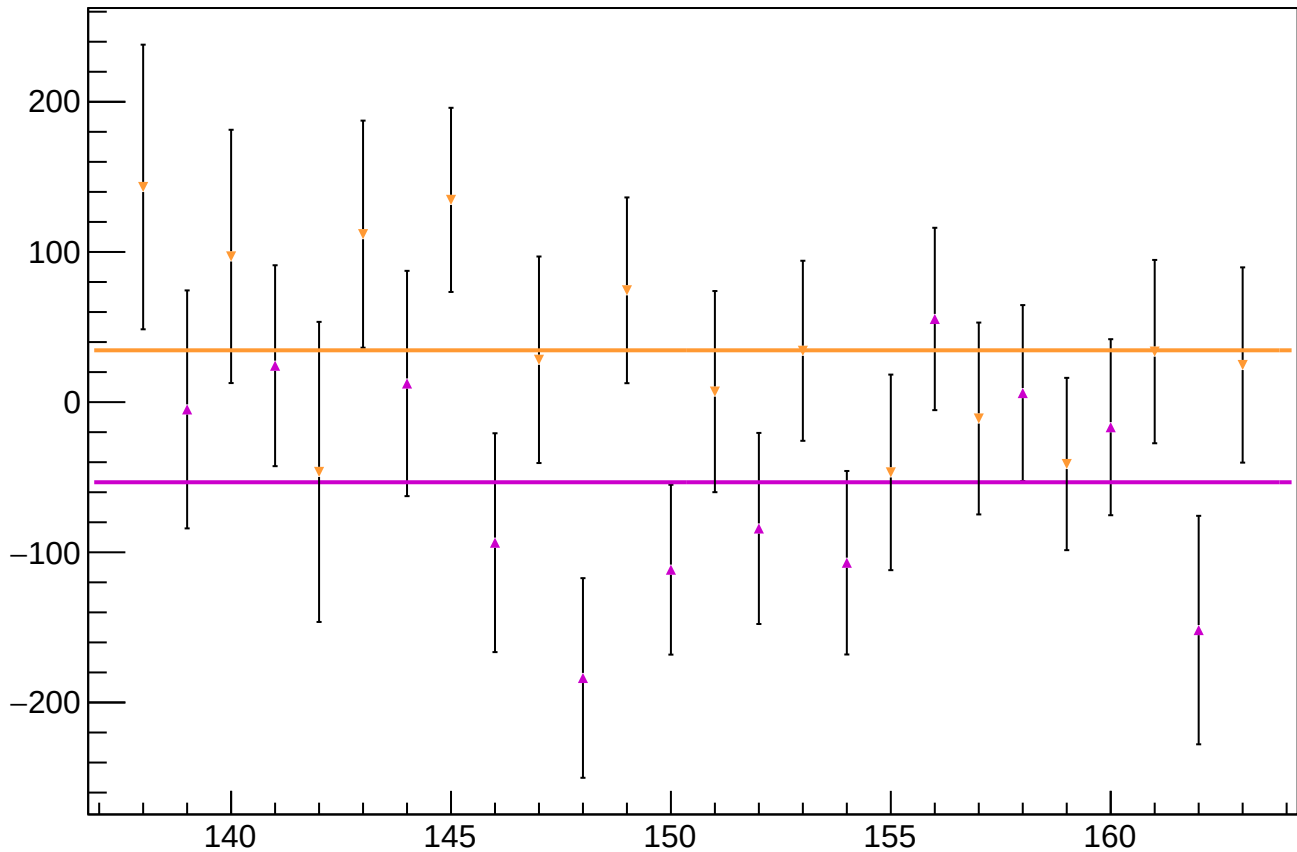
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 138.607+/-0.022  $\chi^2/\text{NDF}$ : 1776715.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_asym\_sam\_1357\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 34.515 $\pm$ 18.087  $\chi^2$ /NDF:10.7/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

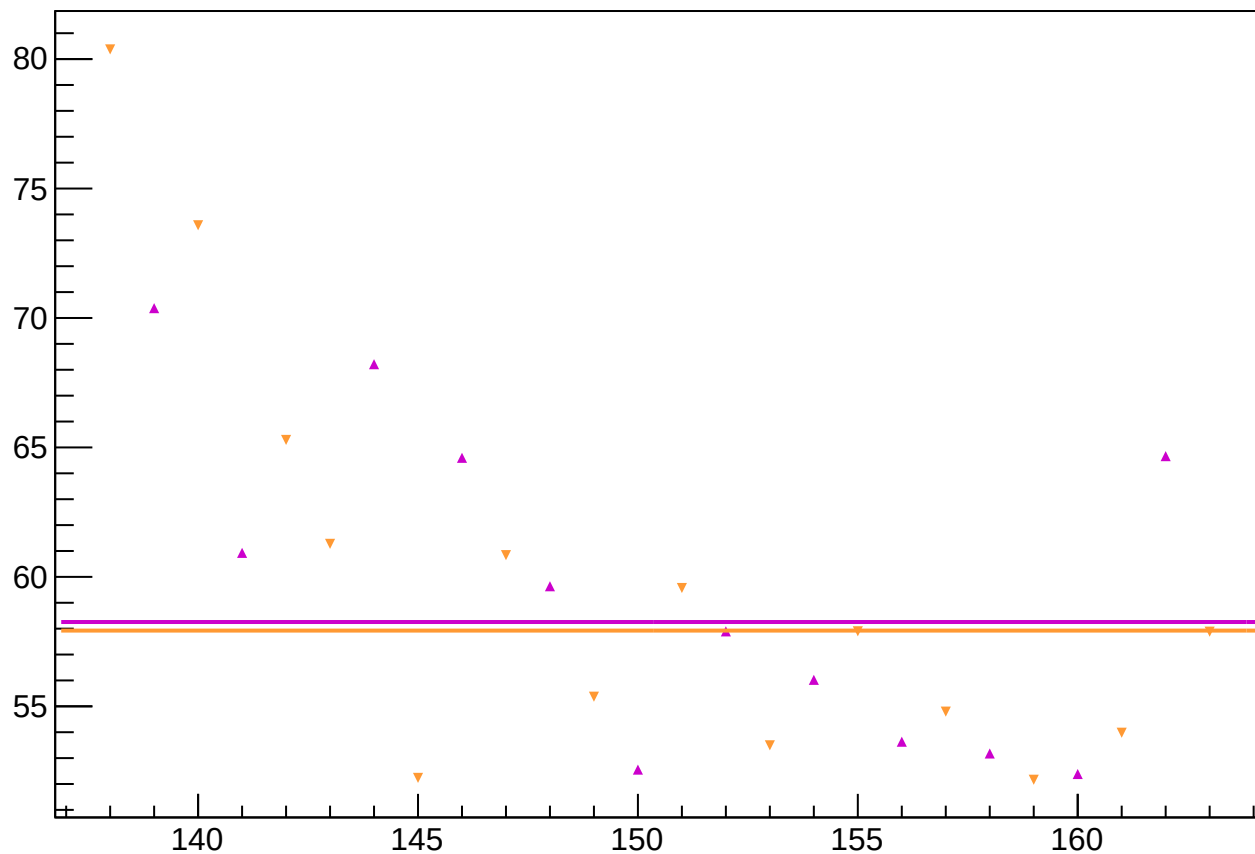
Left In: -53.349 $\pm$ 18.801  $\chi^2$ /NDF:15.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.717 $\pm$ 13.034  $\chi^2$ /NDF: 37.0/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_1357\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 57.926+/-0.013  $\chi^2/\text{NDF}$ :265627.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

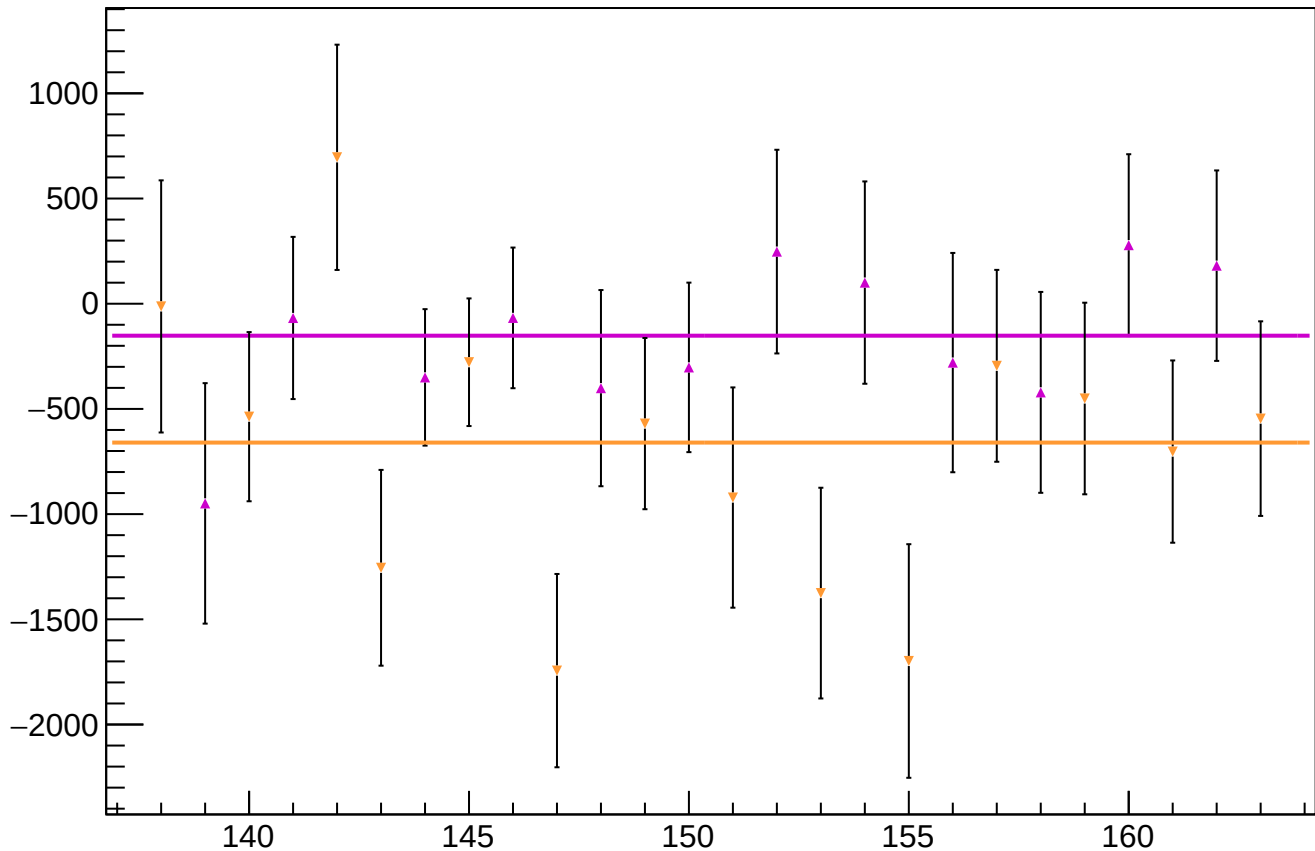
Left In: 58.257+/-0.013  $\chi^2/\text{NDF}$ :185196.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 58.085+/-0.009  $\chi^2/\text{NDF}$ : 451146.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -659.983+/-120.170  $\chi^2/\text{NDF}$ : 23.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

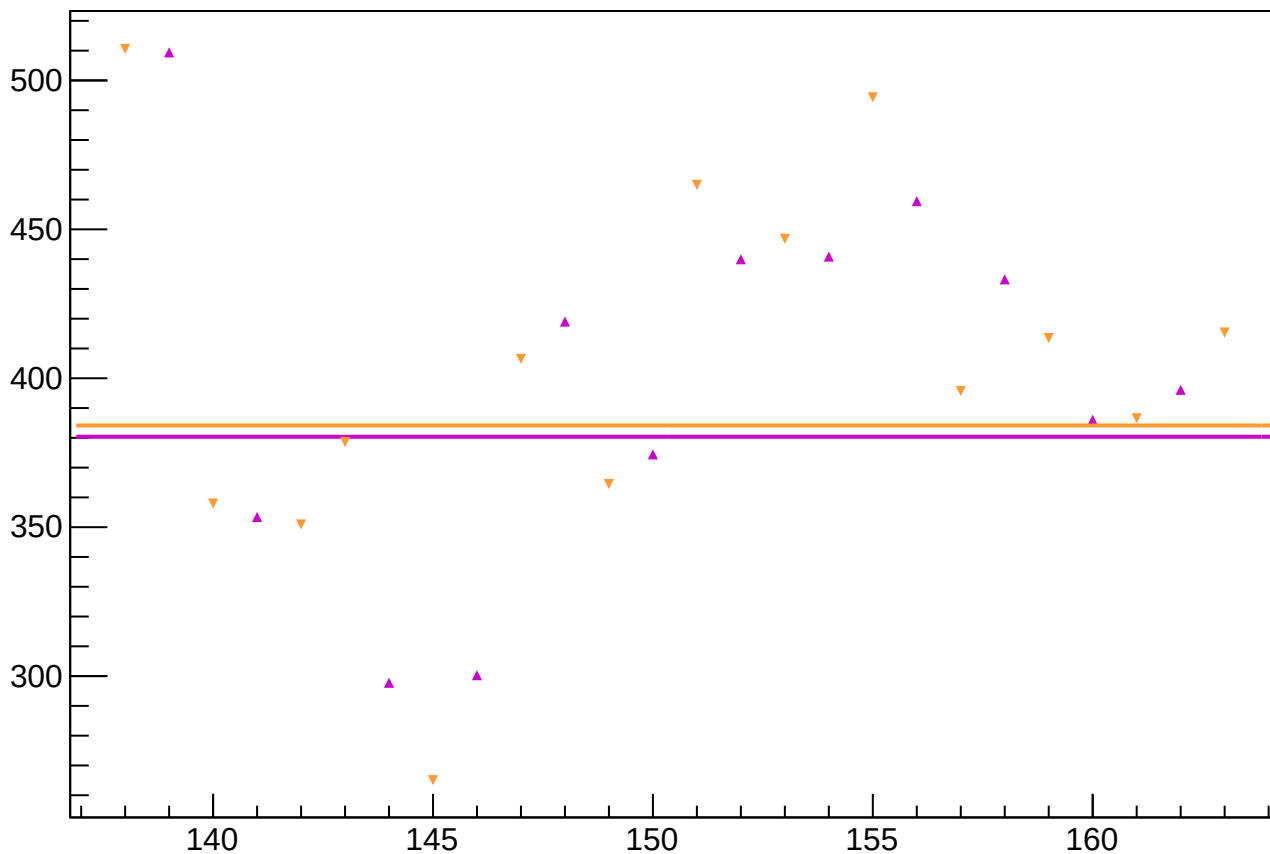
Left In: -151.952+/-123.174  $\chi^2/\text{NDF}$ : 5.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -412.238+/-86.015  $\chi^2/\text{NDF}$ : 37.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 384.139+/-0.085  $\chi^2/\text{NDF}$ : 599787.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

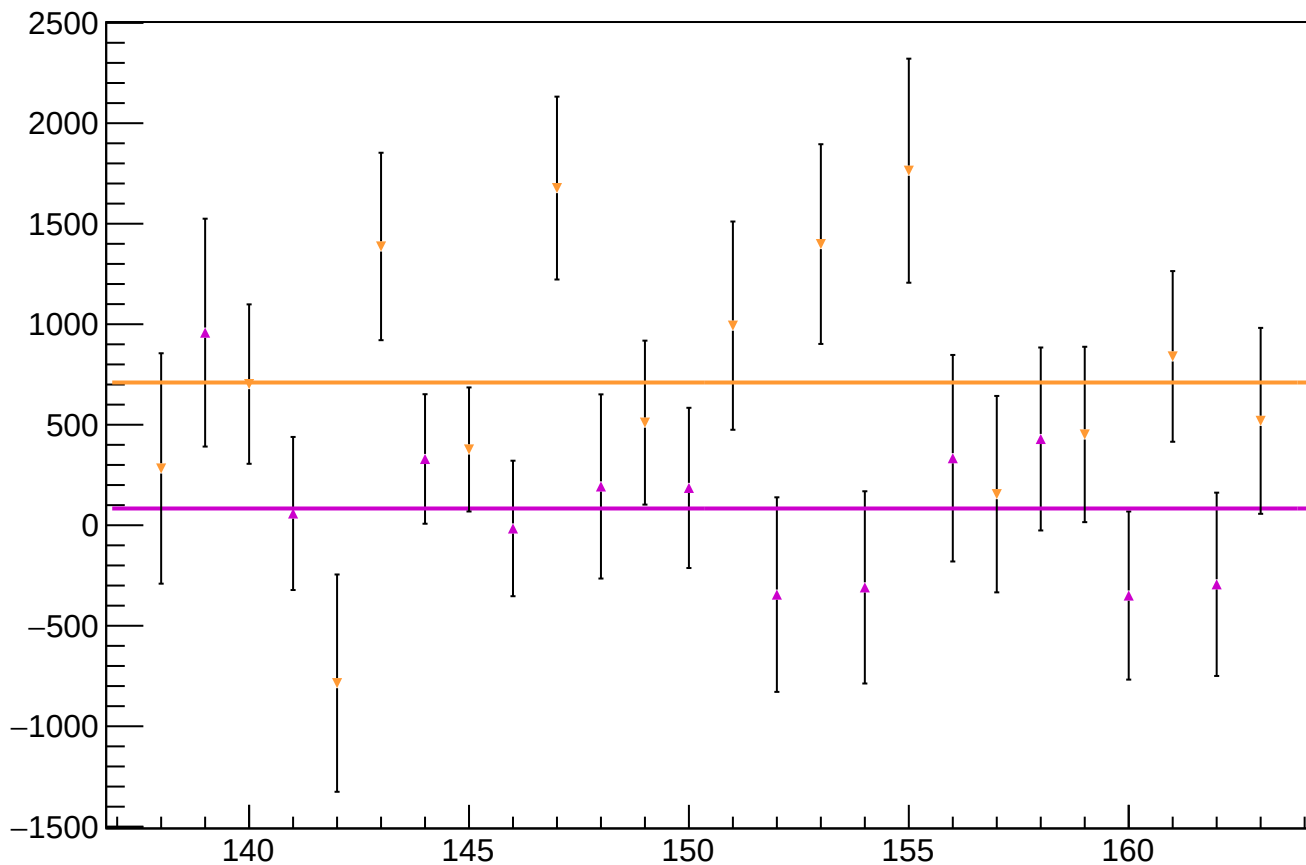
Left In: 380.368+/-0.087  $\chi^2/\text{NDF}$ : 505756.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 382.300+/-0.061  $\chi^2/\text{NDF}$ : 1106504.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_1357\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 710.097 $\pm$ 119.999  $\chi^2$ /NDF:23.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

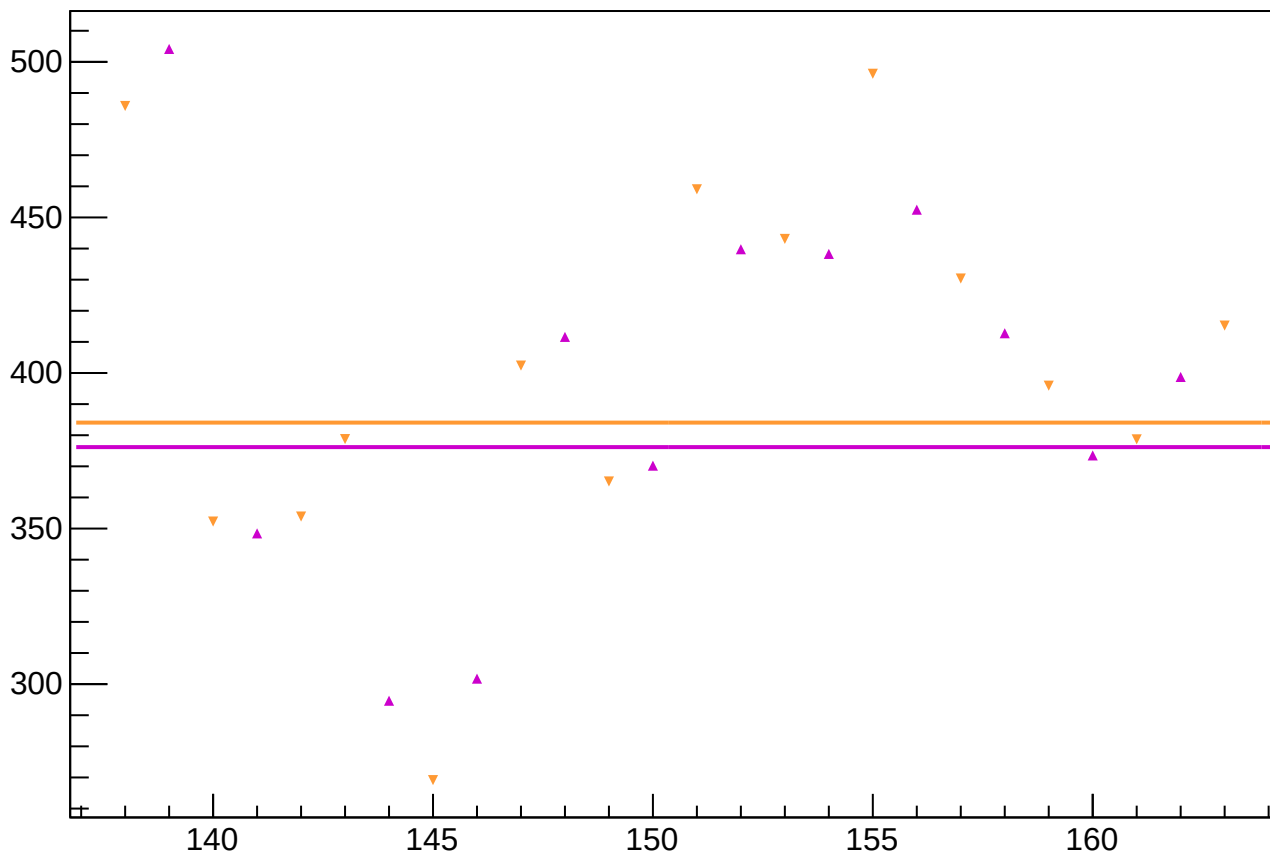
Left In: 83.358 $\pm$ 121.897  $\chi^2$ /NDF:7.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 401.646 $\pm$ 85.515  $\chi^2$ /NDF: 44.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1357\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 384.058+/-0.085  $\chi^2/\text{NDF}$ : 547335.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

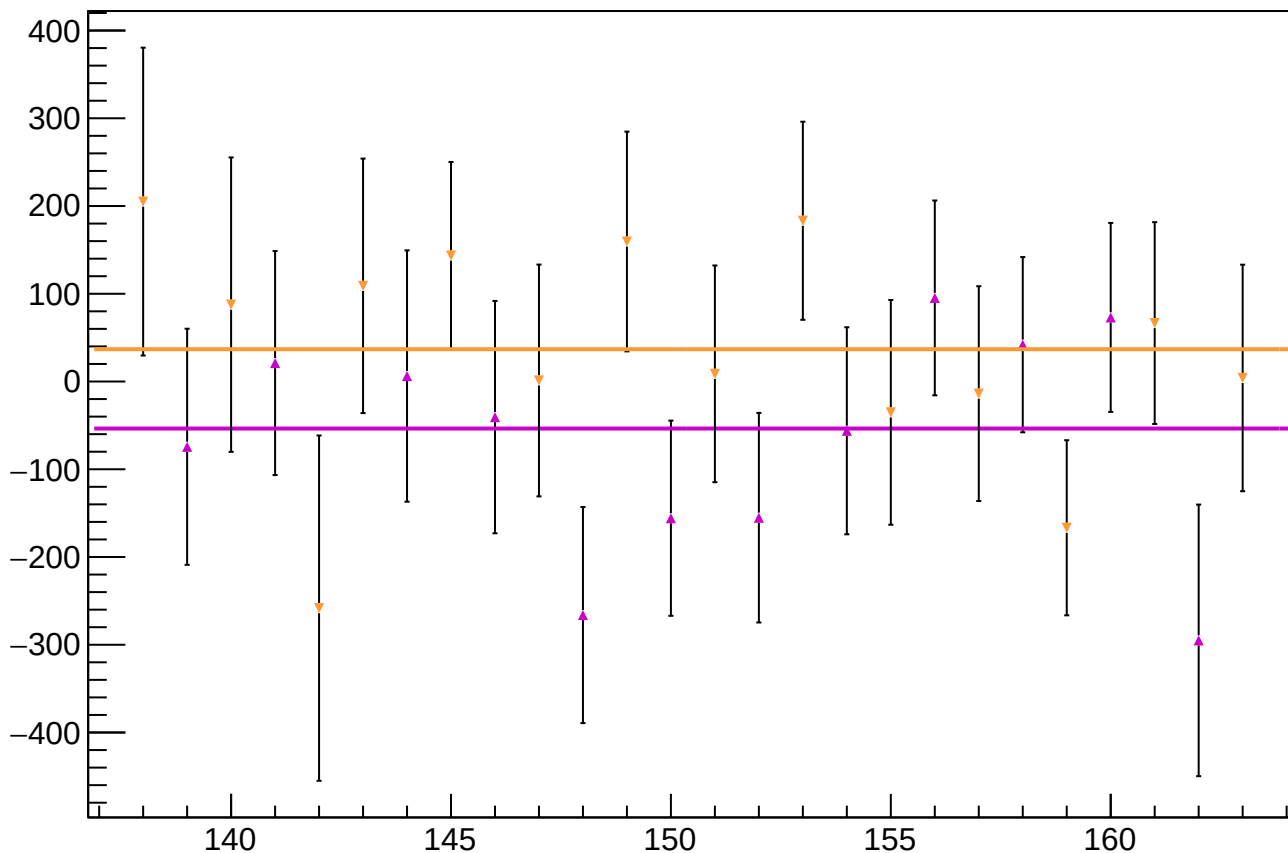
Left In: 376.182+/-0.086  $\chi^2/\text{NDF}$ : 480863.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 380.182+/-0.060  $\chi^2/\text{NDF}$ : 1032439.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_2468\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 36.828 $\pm$ 34.131  $\chi^2$ /NDF:12.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

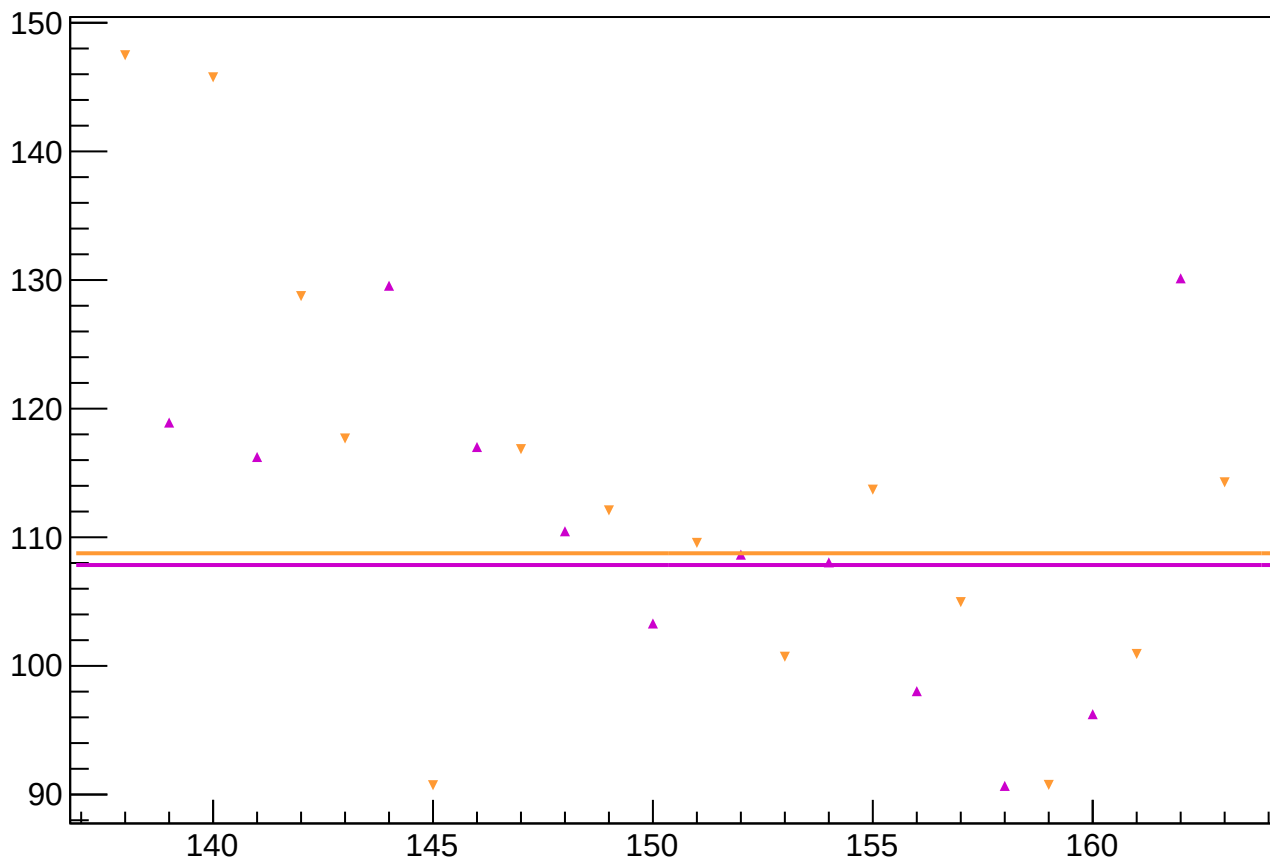
Left In: -53.589 $\pm$ 34.909  $\chi^2$ /NDF:11.6/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.362 $\pm$ 24.404  $\chi^2$ /NDF: 27.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_2468\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 108.756+/-0.024  $\chi^2/\text{NDF}$ : 382428.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 107.843+/-0.025  $\chi^2/\text{NDF}$ : 221571.4/11

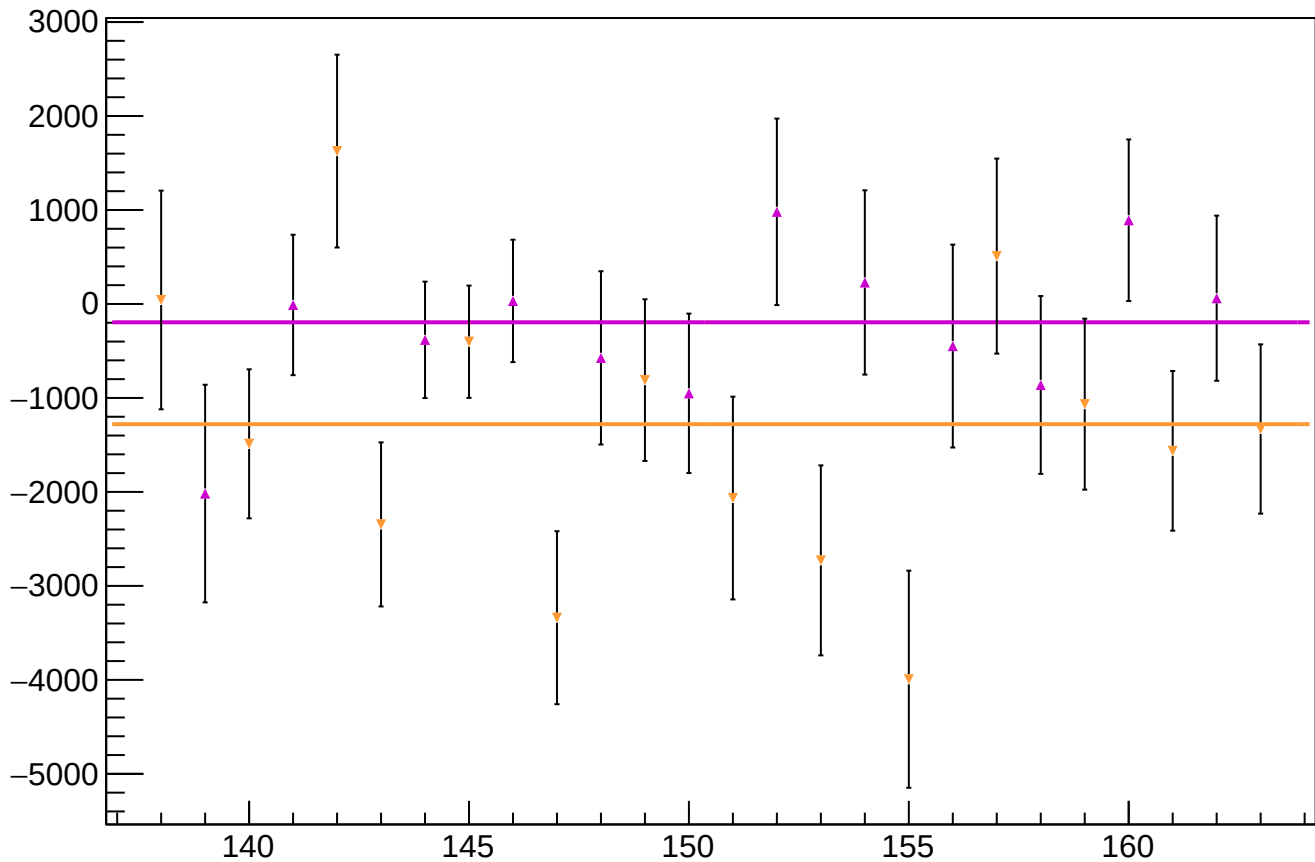
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 108.310+/-0.017  $\chi^2/\text{NDF}$ : 604699.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_2468\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1279.038 $\pm$ 240.650  $\chi^2$ /NDF:29.6/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

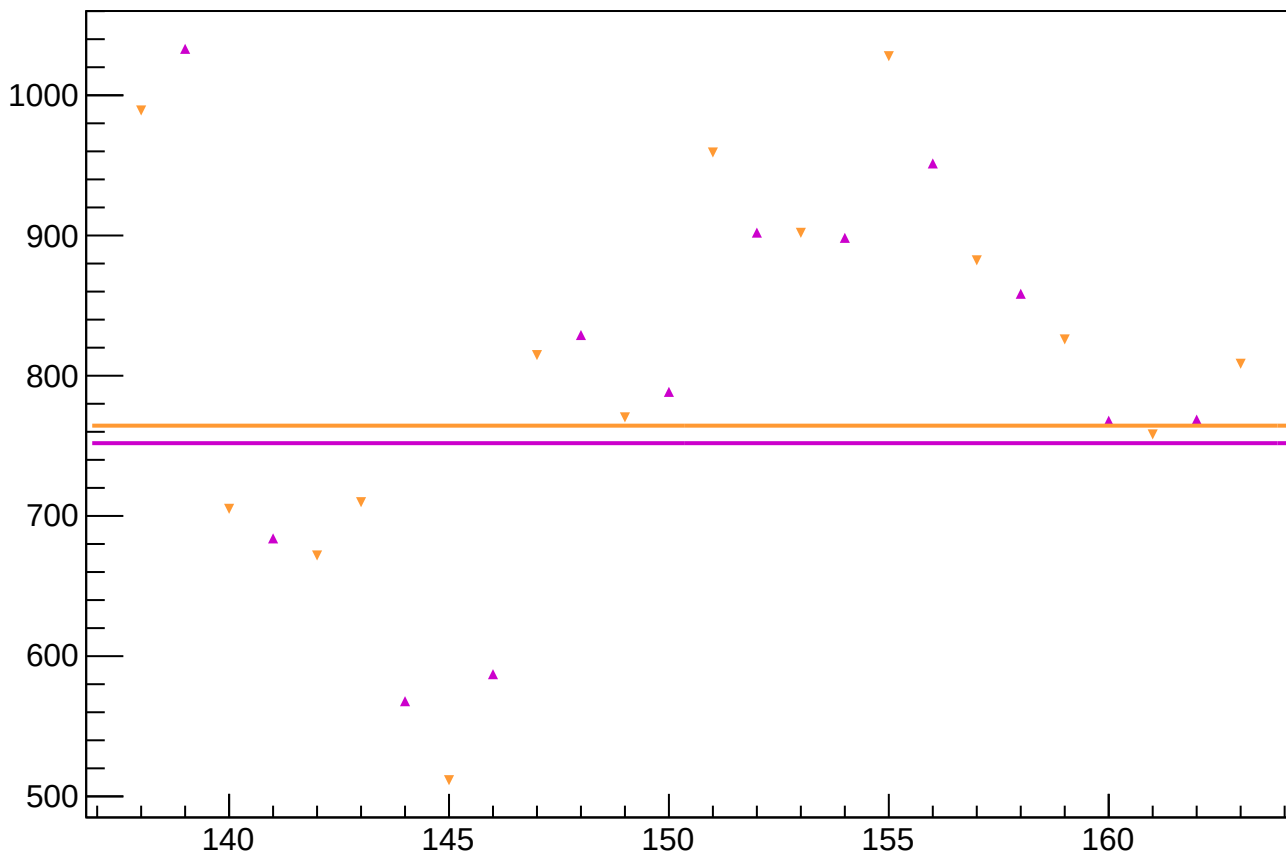
Left In: -195.001 $\pm$ 244.342  $\chi^2$ /NDF:7.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -745.272 $\pm$ 171.456  $\chi^2$ /NDF: 47.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_2468\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 764.389+/-0.170  $\chi^2/\text{NDF}$ : 720359.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

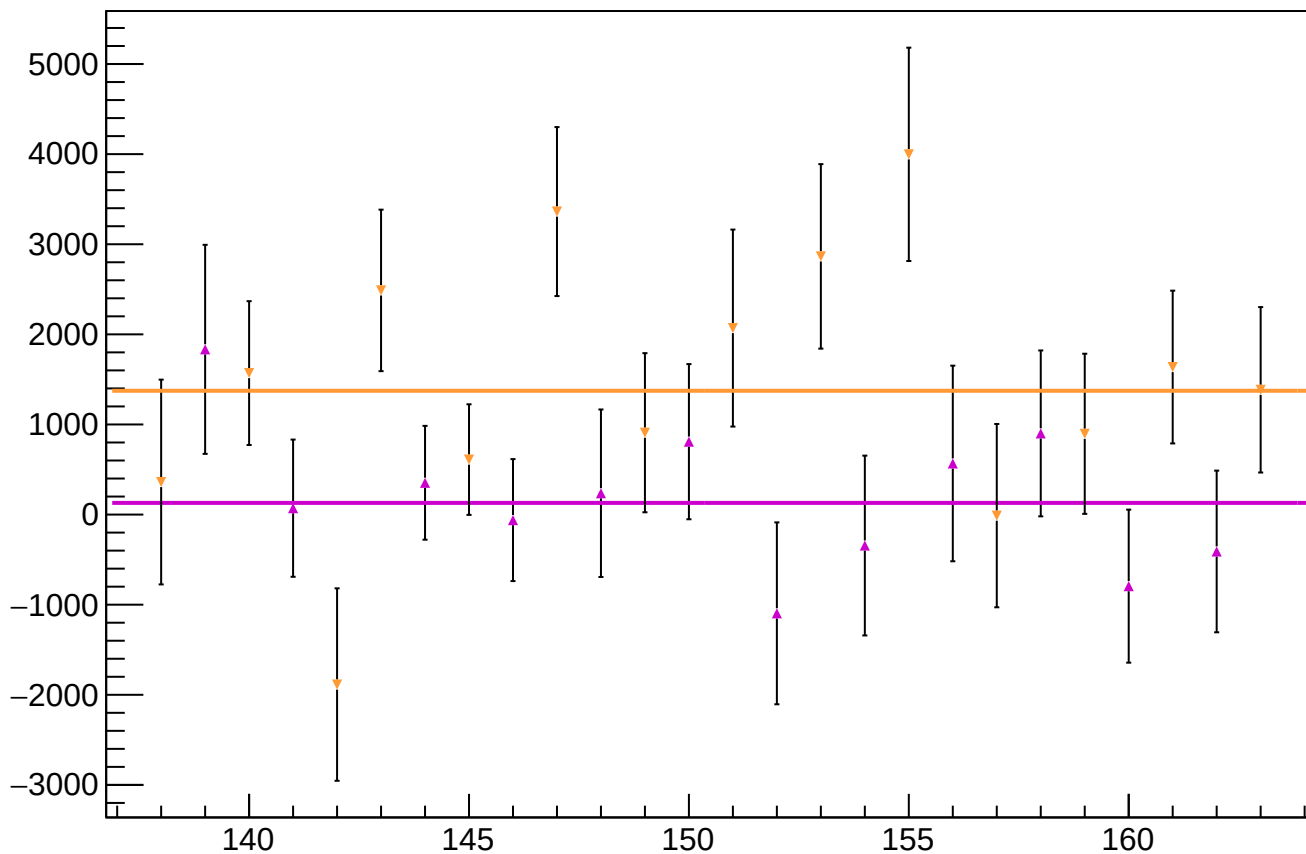
Left In: 751.894+/-0.173  $\chi^2/\text{NDF}$ : 642289.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 758.237+/-0.121  $\chi^2/\text{NDF}$ : 1365303.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1374.012+/-243.544  $\chi^2/\text{NDF}$ : 27.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

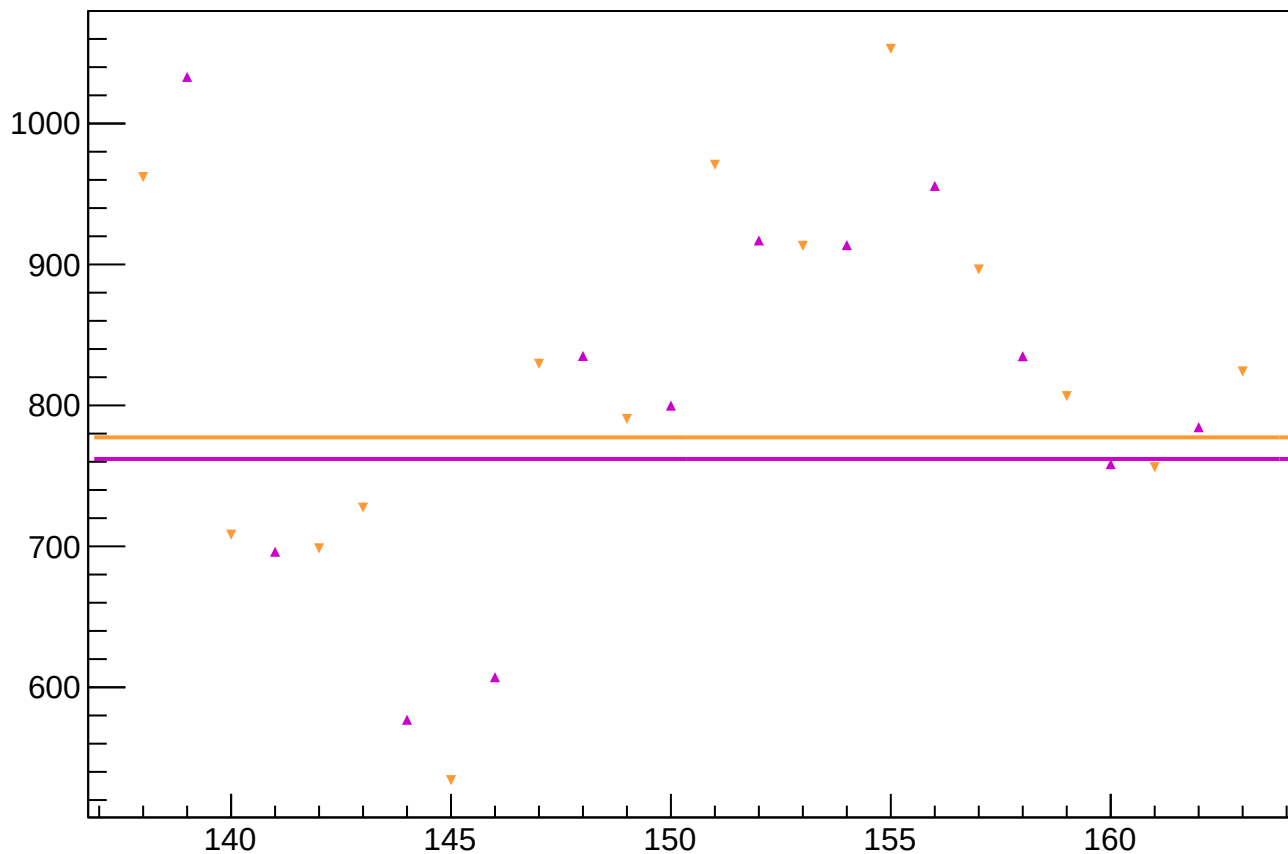
Left In: 129.664+/-247.619  $\chi^2/\text{NDF}$ : 7.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 762.160+/-173.634  $\chi^2/\text{NDF}$ : 47.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_2468\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 777.323+/-0.172  $\chi^2/\text{NDF}$ : 648084.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

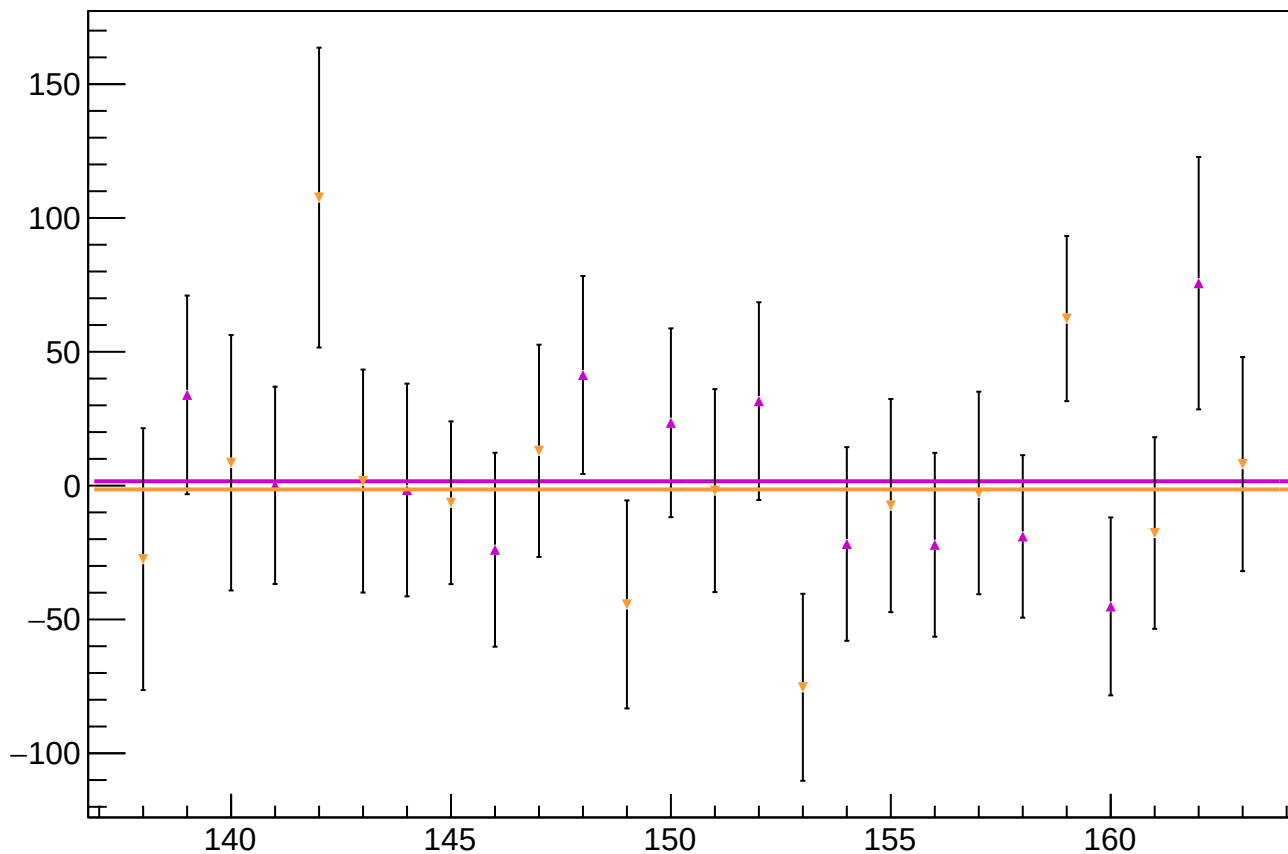
Left In: 762.004+/-0.175  $\chi^2/\text{NDF}$ : 587794.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 769.790+/-0.123  $\chi^2/\text{NDF}$ : 1239768.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1.423 $\pm$ 10.298  $\chi^2$ /NDF:14.5/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

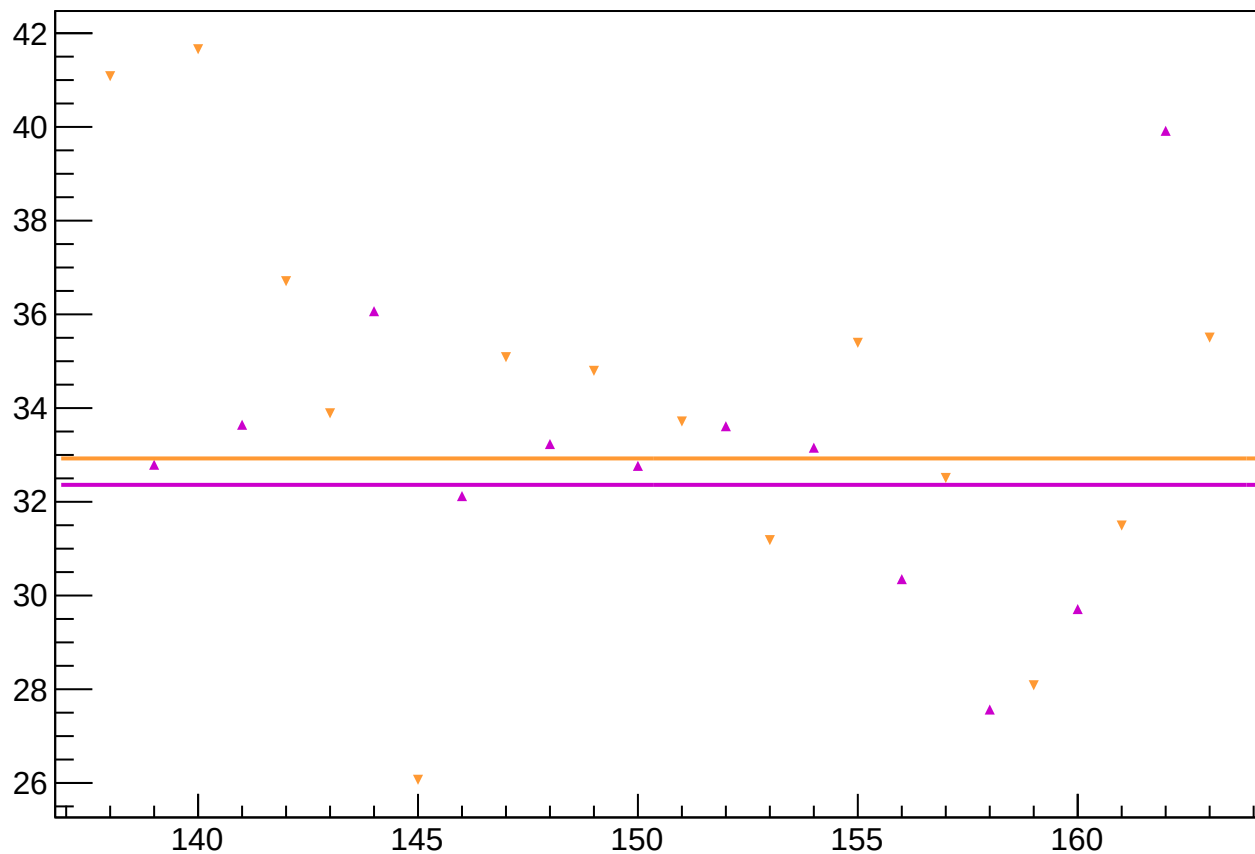
Left In: 1.622 $\pm$ 10.439  $\chi^2$ /NDF:9.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.079 $\pm$ 7.331  $\chi^2$ /NDF: 23.8/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 32.925 $\pm$ 0.007  $\chi^2/\text{NDF}$ :319531.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

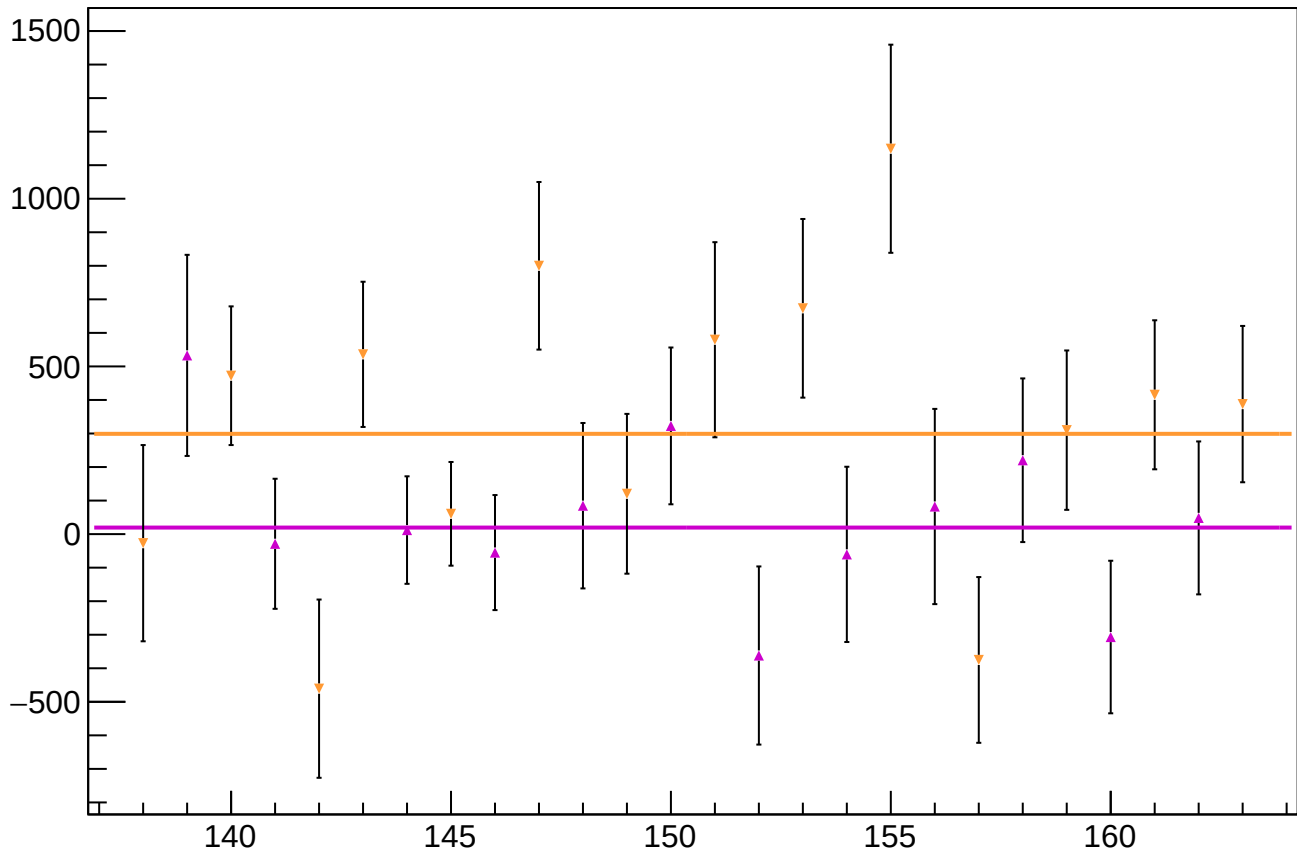
Left In: 32.362 $\pm$ 0.007  $\chi^2/\text{NDF}$ :145598.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 32.647 $\pm$ 0.005  $\chi^2/\text{NDF}$ : 468084.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 298.999+/-62.606  $\chi^2/\text{NDF}$ : 36.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

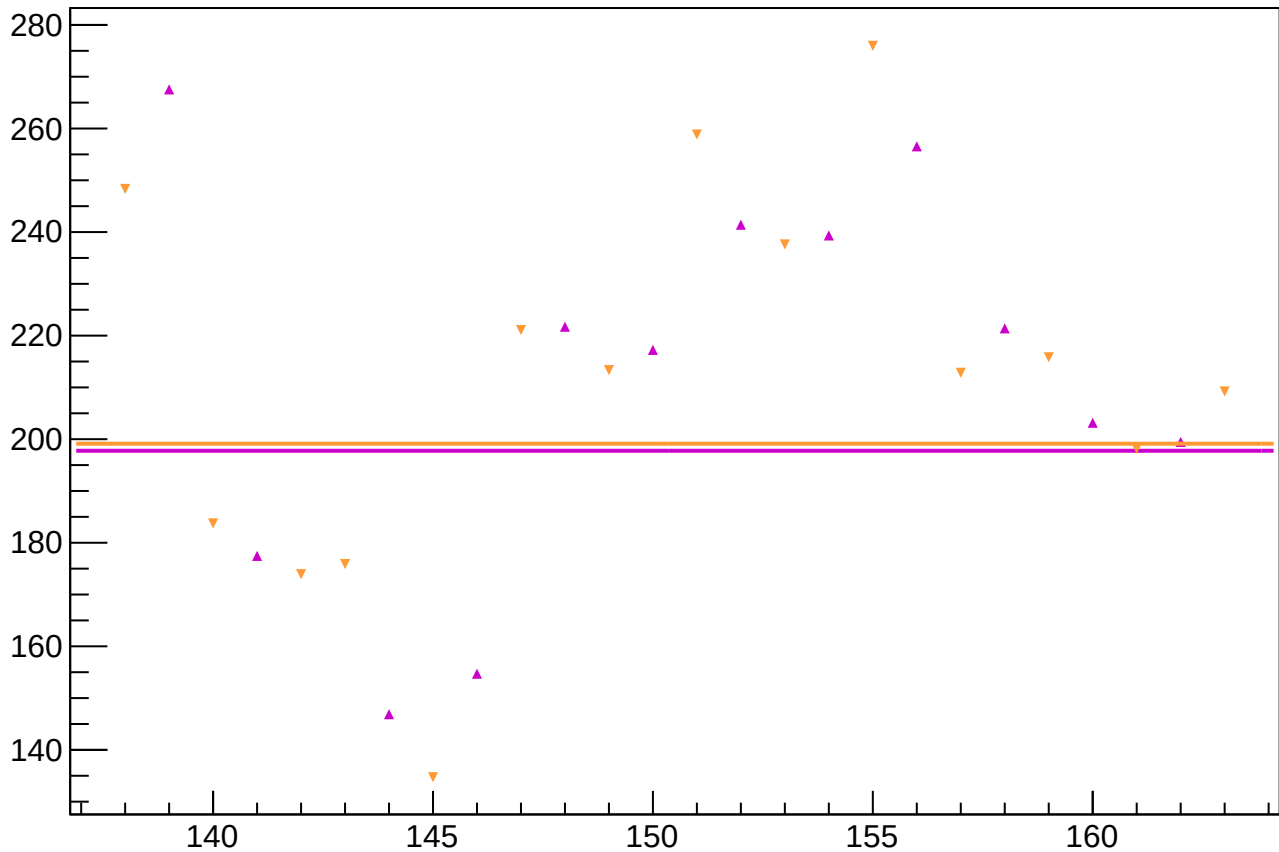
Left In: 19.517+/-64.365  $\chi^2/\text{NDF}$ : 9.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 163.128+/-44.878  $\chi^2/\text{NDF}$ : 56.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 199.131+/-0.044  $\chi^2/\text{NDF}$ : 746989.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 197.766+/-0.046  $\chi^2/\text{NDF}$ : 696860.3/11

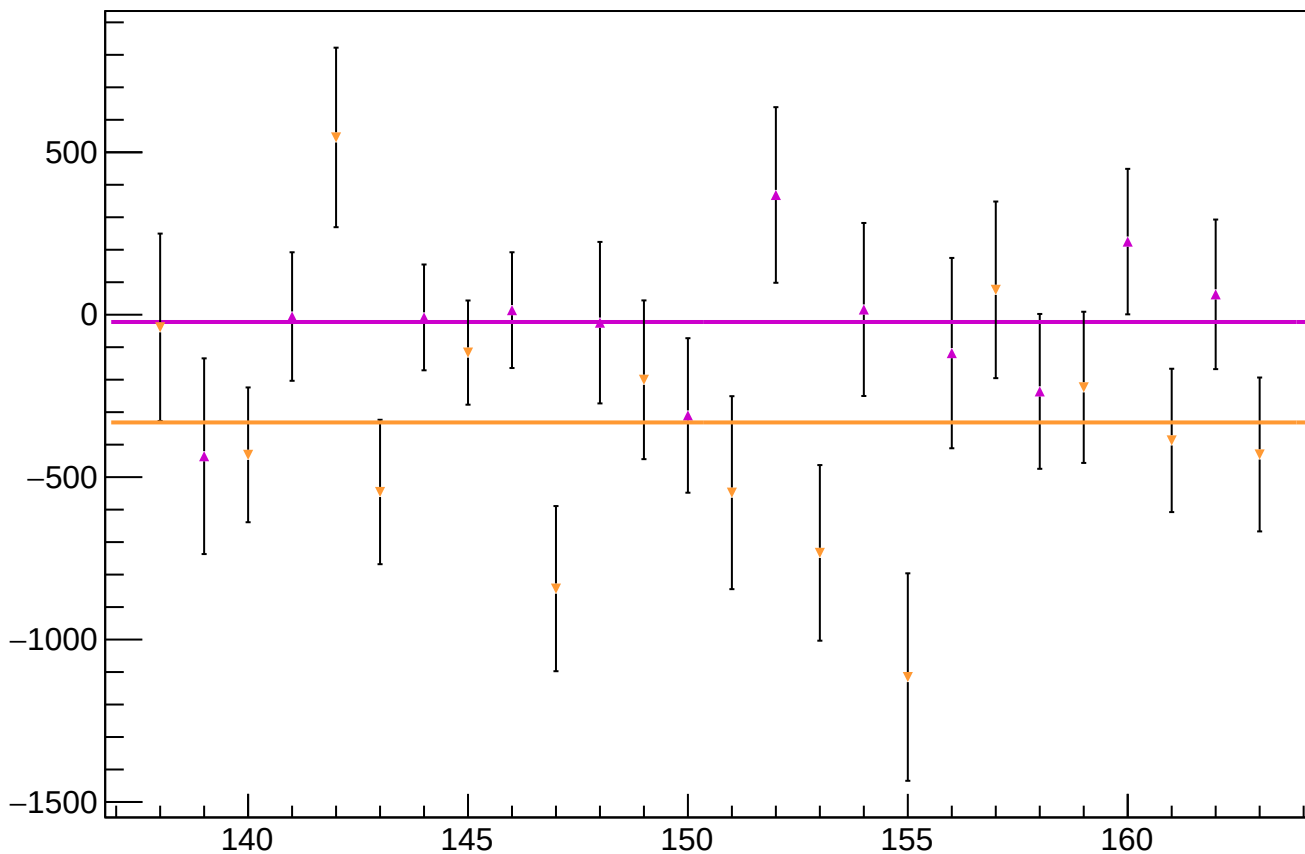
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 198.467+/-0.032  $\chi^2/\text{NDF}$ : 1444311.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_sam\_1357\_2468\_dd\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -331.620 $\pm$ 63.902  $\chi^2$ /NDF:29.9/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

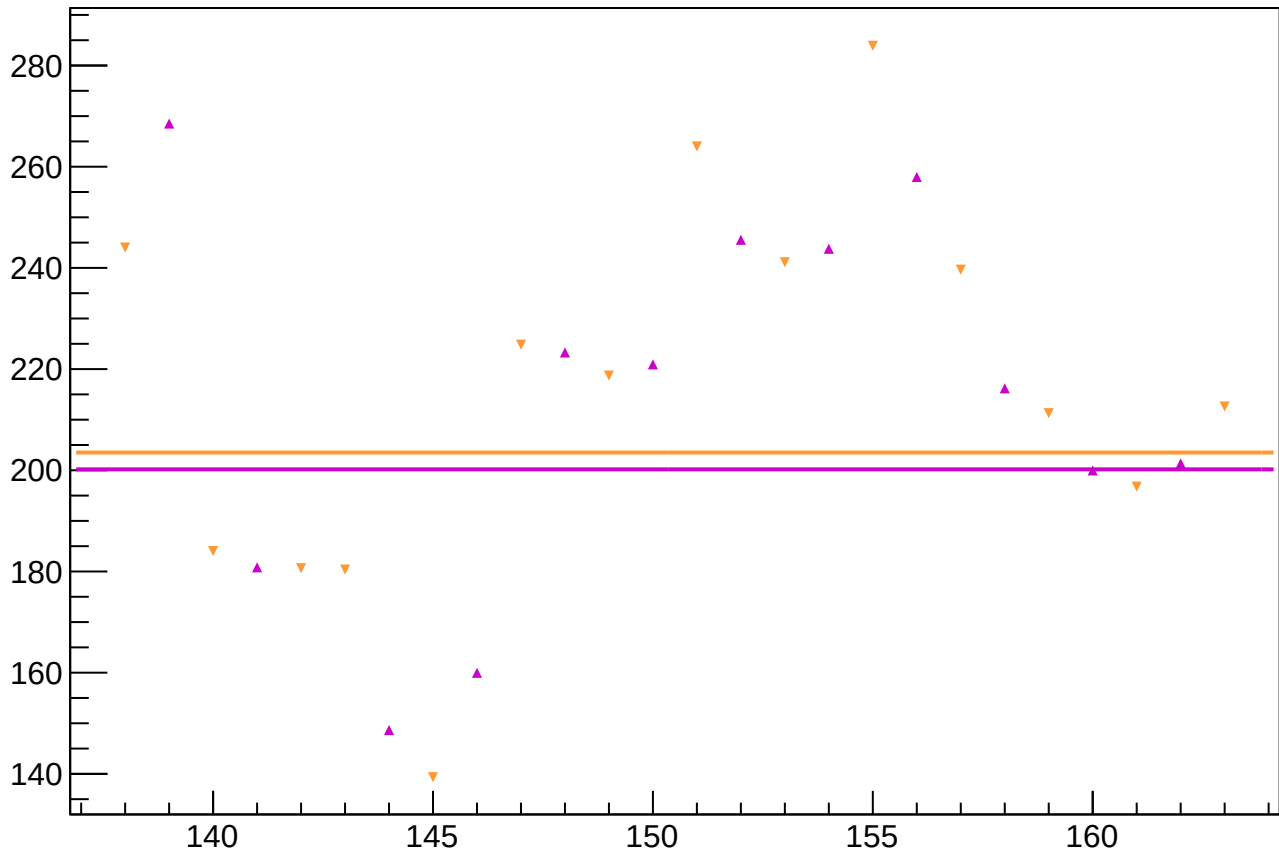
Left In: -22.412 $\pm$ 65.167  $\chi^2$ /NDF:7.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -180.046 $\pm$ 45.626  $\chi^2$ /NDF: 49.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_sam\_1357\_2468\_dd\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 203.512+/-0.045  $\chi^2/\text{NDF}$ : 725319.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

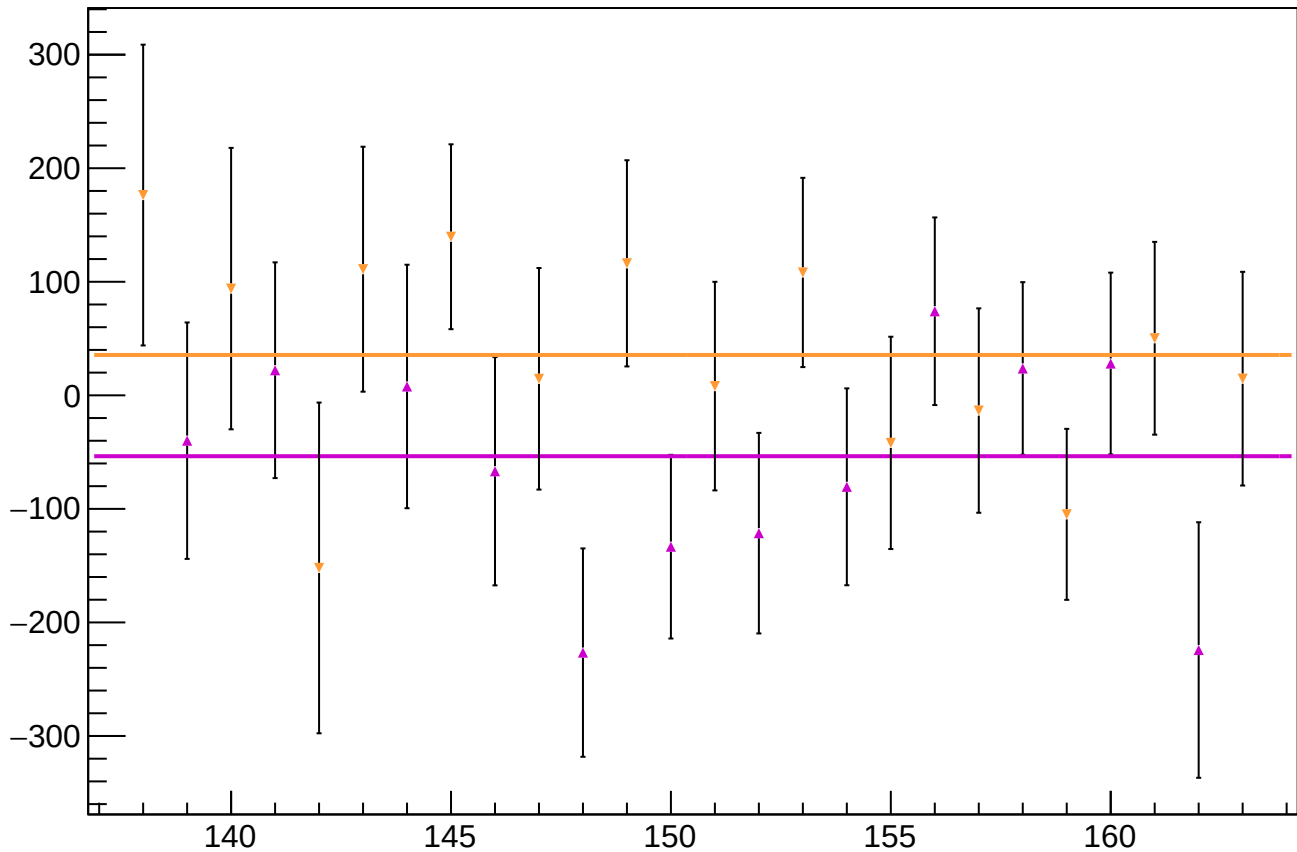
Left In: 200.184+/-0.046  $\chi^2/\text{NDF}$ : 653452.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 201.881+/-0.032  $\chi^2/\text{NDF}$ : 1381431.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 35.550 $\pm$ 25.310  $\chi^2$ /NDF:11.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

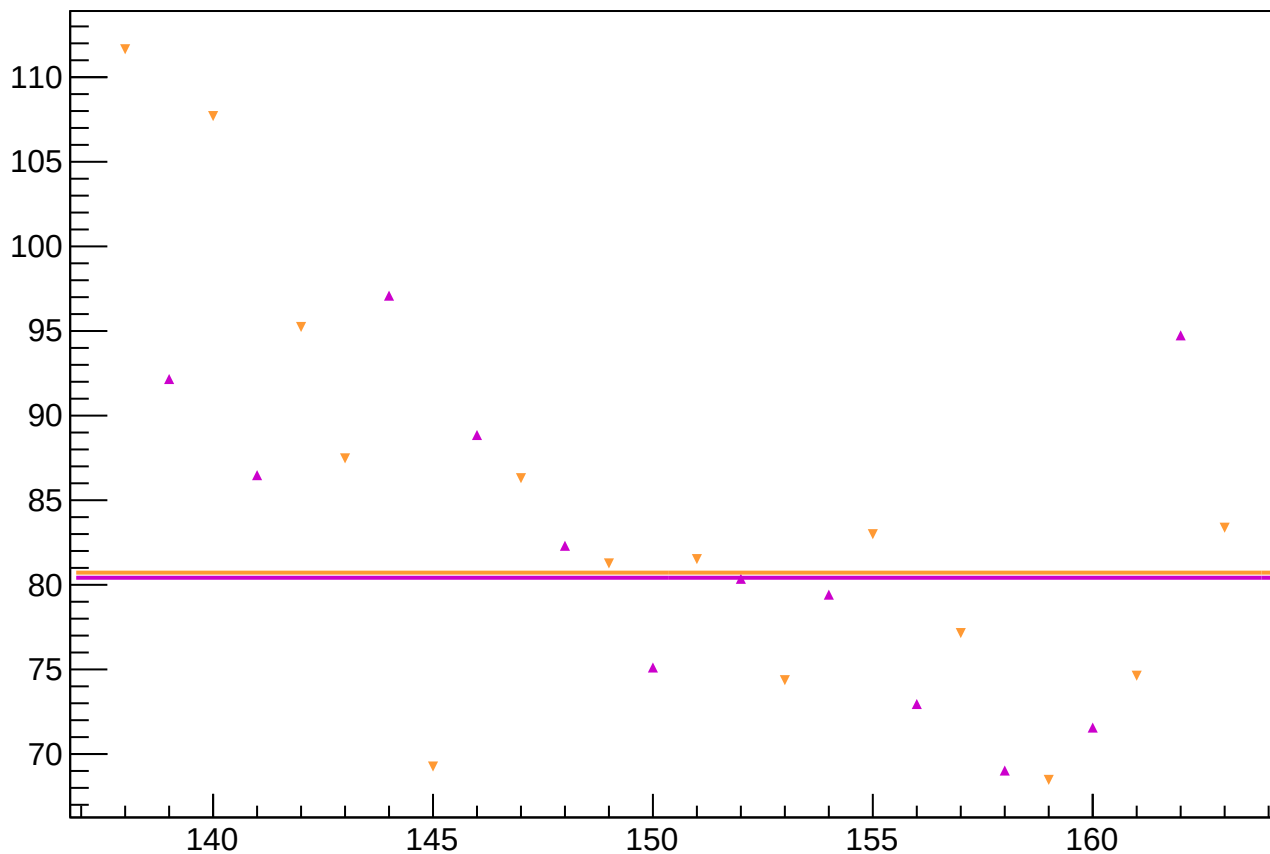
Left In: -53.616 $\pm$ 26.025  $\chi^2$ /NDF:13.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -7.792 $\pm$ 18.145  $\chi^2$ /NDF: 30.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 80.721+/-0.018  $\chi^2/\text{NDF}$ : 358782.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

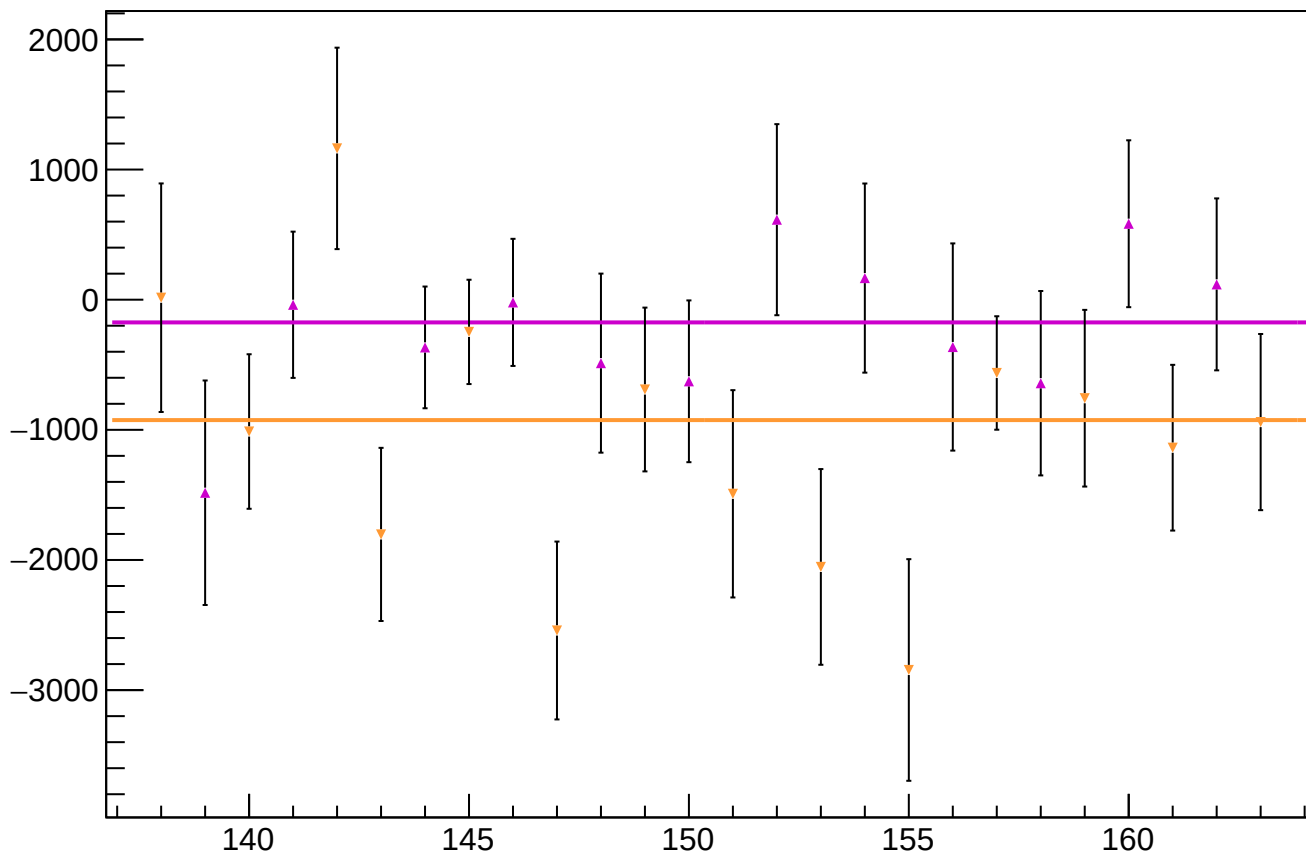
Left In: 80.418+/-0.018  $\chi^2/\text{NDF}$ : 223849.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 80.574+/-0.013  $\chi^2/\text{NDF}$ : 582771.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_sam\_12345678\_avg\_correction\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -925.206 $\pm$ 167.221  $\chi^2$ /NDF:27.5/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

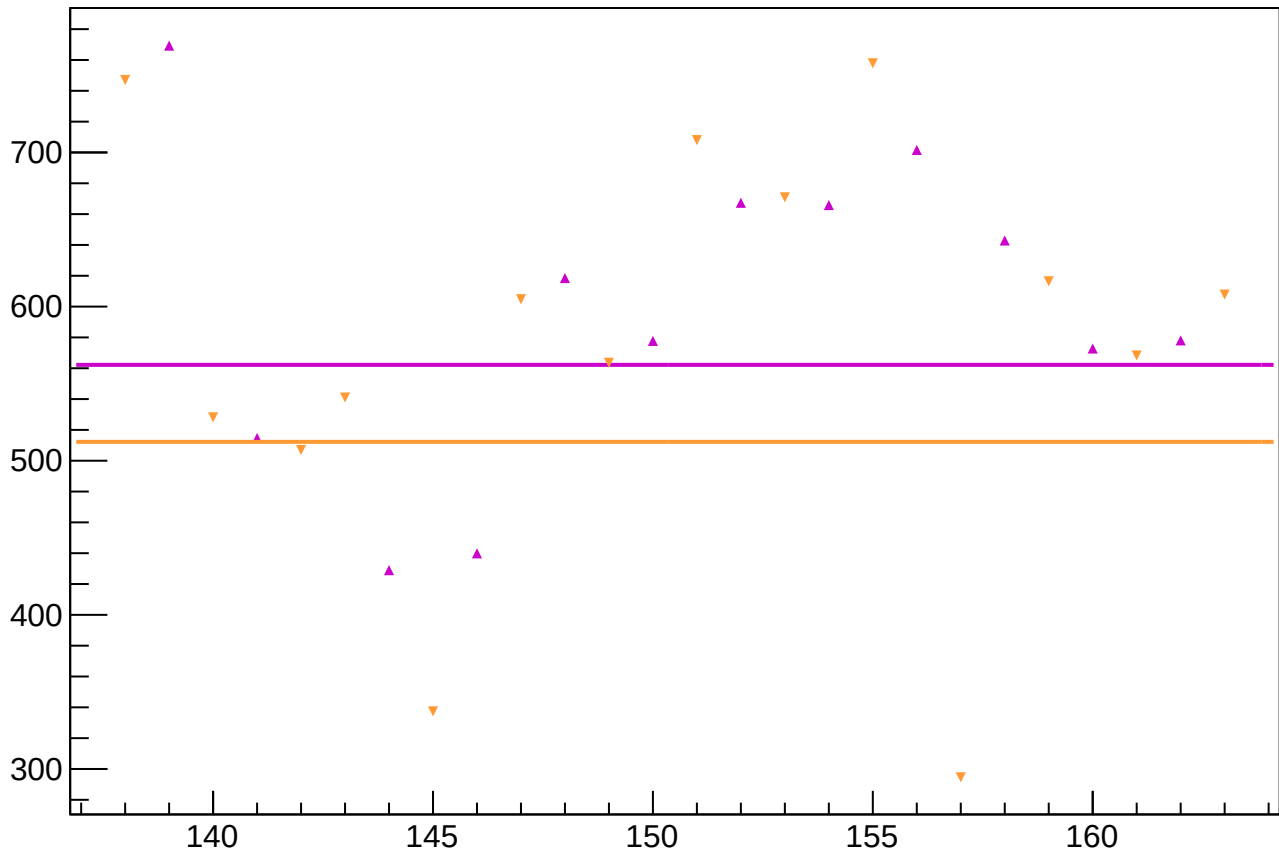
Left In: -174.592 $\pm$ 182.506  $\chi^2$ /NDF:6.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -582.643 $\pm$ 123.293  $\chi^2$ /NDF: 43.5/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

asym\_sam\_12345678\_avg\_correction\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 512.241+/-0.118  $\chi^2/\text{NDF}$ :1556306.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

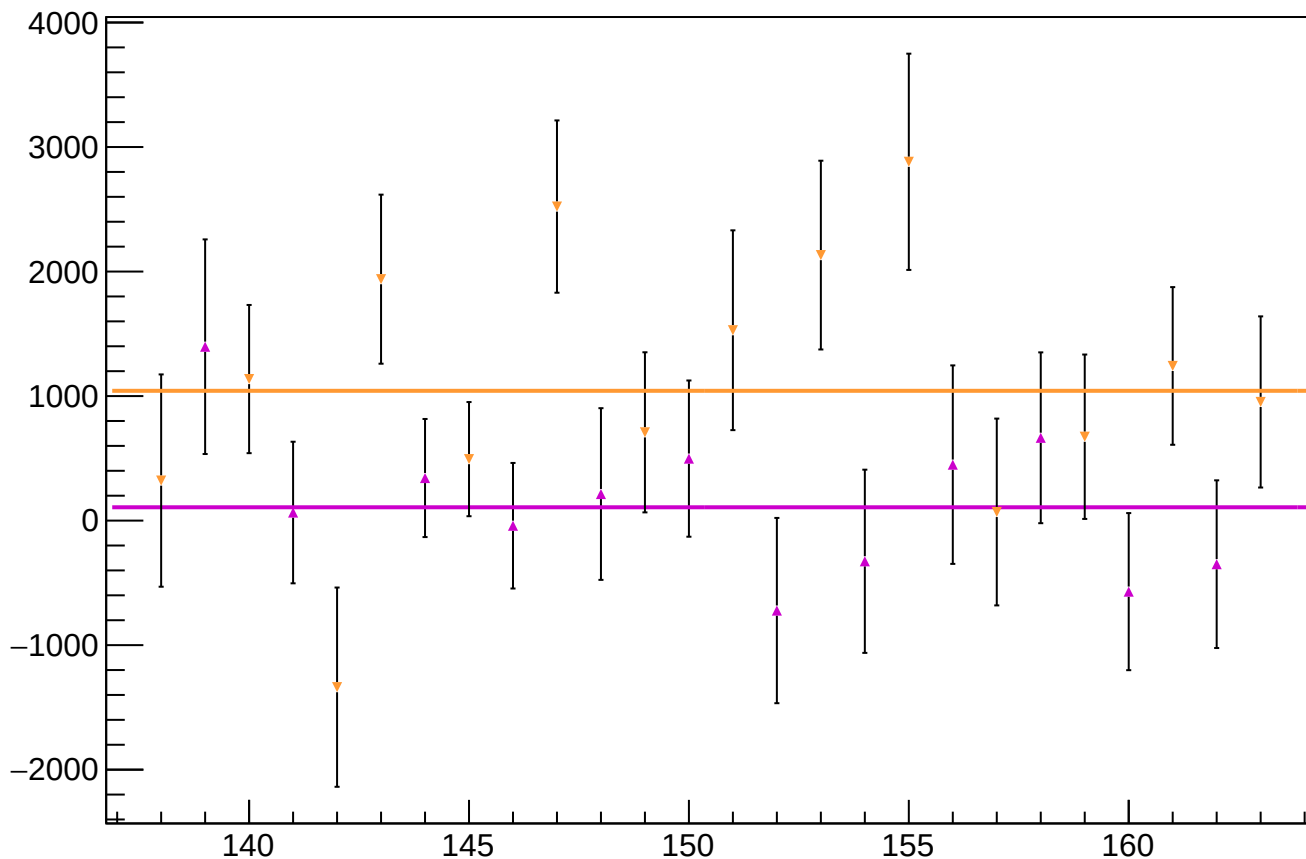
Left In: 562.195+/-0.129  $\chi^2/\text{NDF}$ :602771.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 535.039+/-0.087  $\chi^2/\text{NDF}$ : 2240530.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_12345678\_avg\_mean vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1042.365+/-181.048  $\chi^2/\text{NDF}$ : 26.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

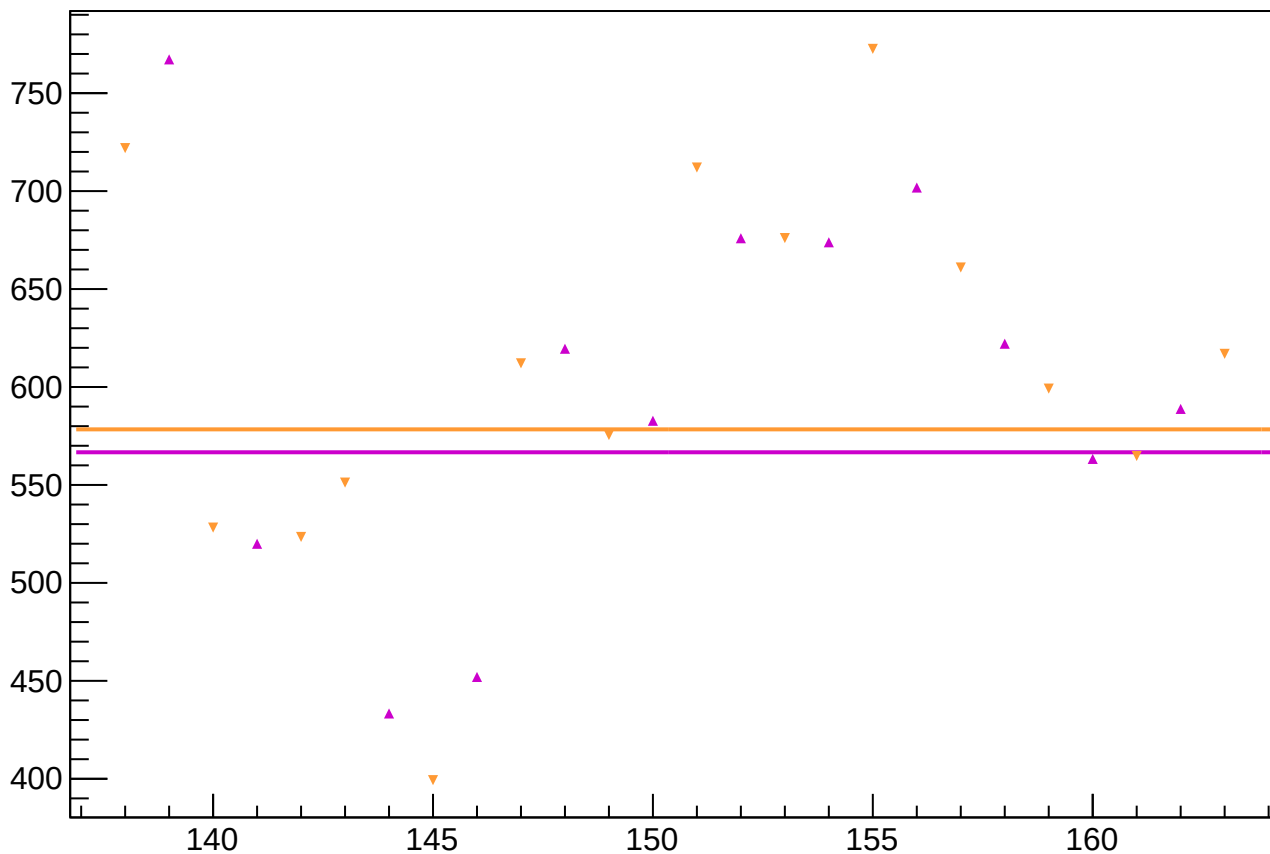
Left In: 107.033+/-183.983  $\chi^2/\text{NDF}$ : 7.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 582.220+/-129.046  $\chi^2/\text{NDF}$ : 46.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_sam\_12345678\_avg\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 578.376+/-0.128  $\chi^2/\text{NDF}$ : 615821.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 566.679+/-0.130  $\chi^2/\text{NDF}$ : 554924.3/11

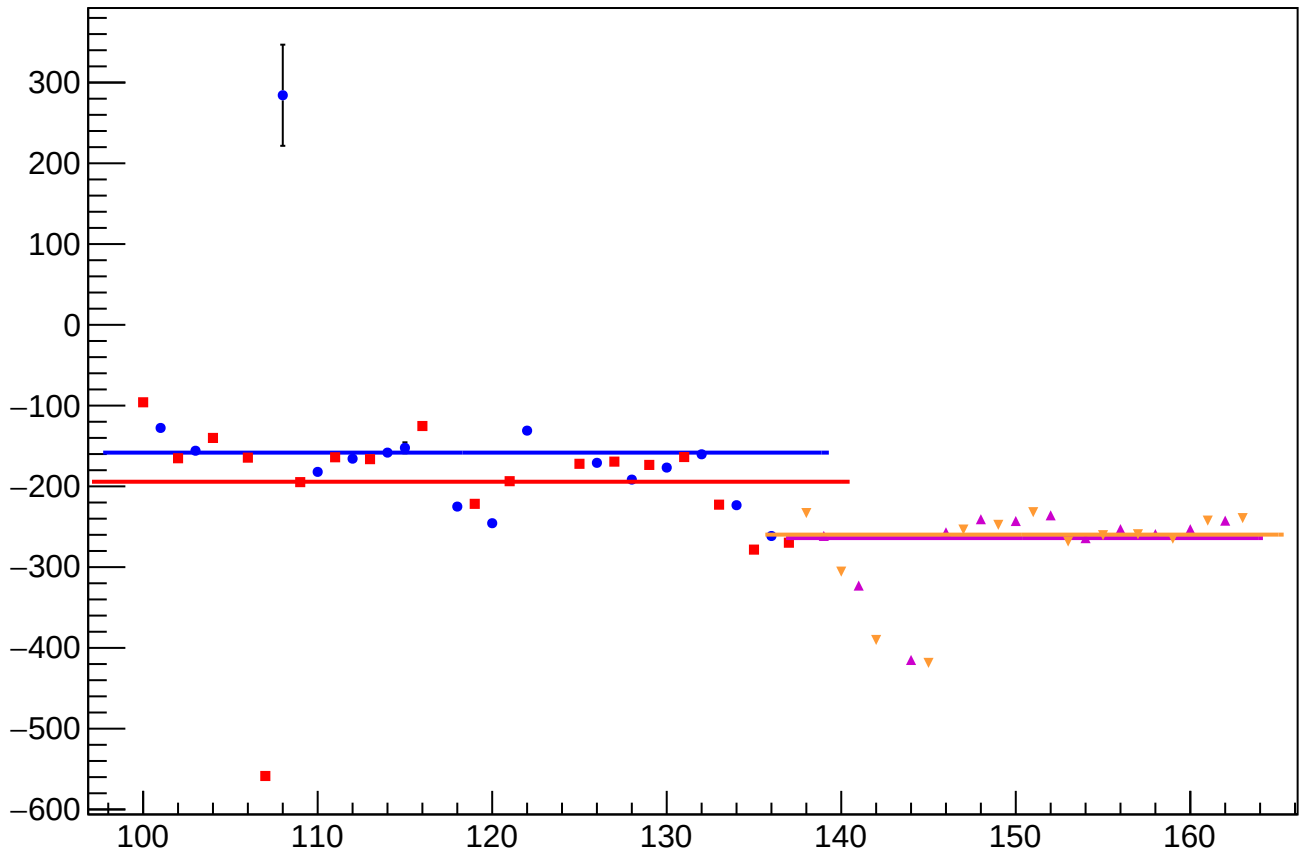
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 572.621+/-0.091  $\chi^2/\text{NDF}$ : 1174852.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# dit\_usl\_4aX\_slope vs Slug



Right In: -158.222+/-0.000  $\chi^2/\text{NDF}$ : 117166.2/15

Left Out: -259.744+/-0.155  $\chi^2/\text{NDF}$ : 30432.9/12

Right Out: -194.268+/-0.165  $\chi^2/\text{NDF}$ : 176560.4/17

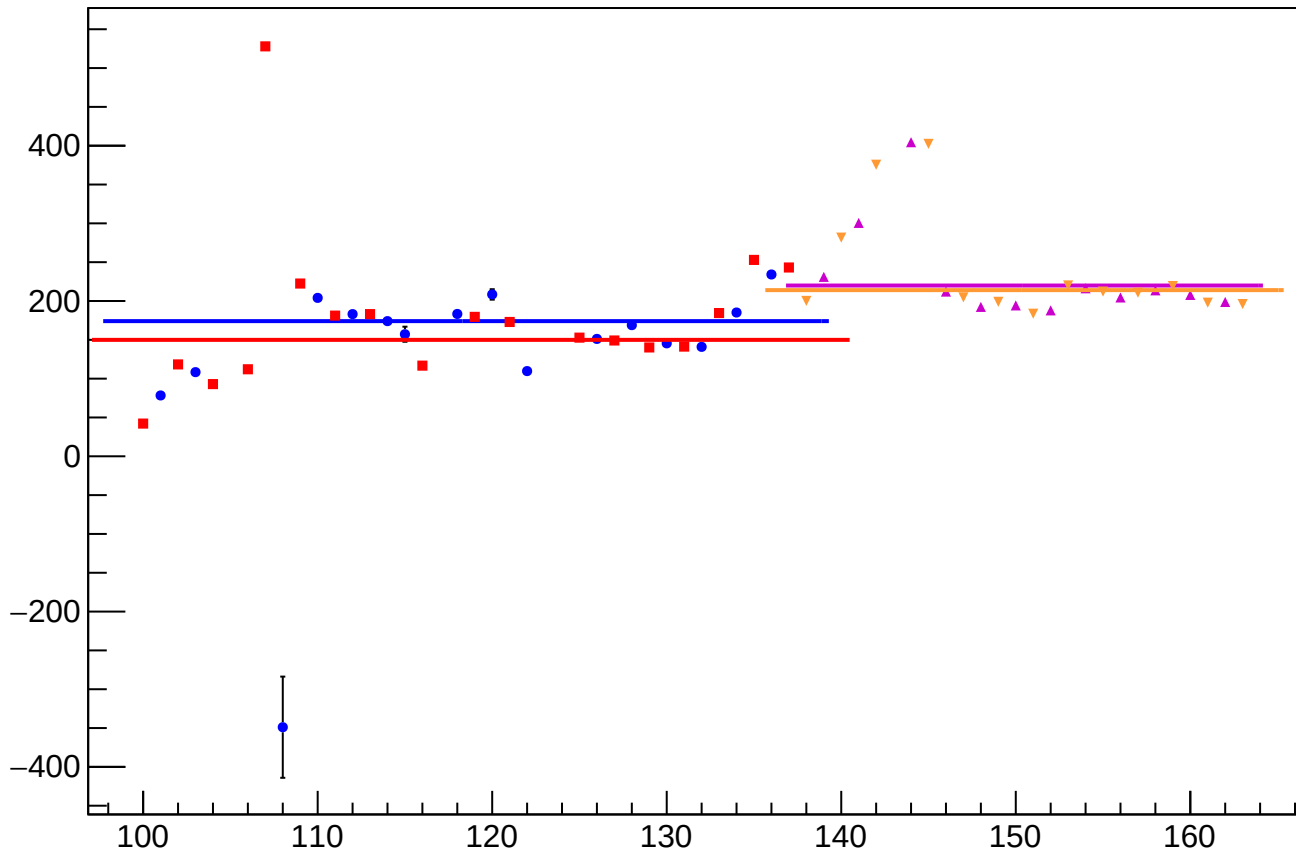
Left In: -264.046+/-0.170  $\chi^2/\text{NDF}$ : 46017.9/11

+ sign -158.222+/-0.000  $\chi^2/\text{NDF}$ : 578821.9/28

All: -158.222+/-0.000  $\chi^2/\text{NDF}$ : 1237639.5/58

- sign -228.195+/-0.118  $\chi^2/\text{NDF}$ : 309383.7/29

# dit\_usl\_4eX\_slope vs Slug



Right In: 174.085 $\pm$ 0.000  $\chi^2$ /NDF: 53377.4/15

Left Out: 214.002 $\pm$ 0.154  $\chi^2$ /NDF: 37200.1/12

Right Out: 149.948 $\pm$ 0.196  $\chi^2$ /NDF: 167846.4/17

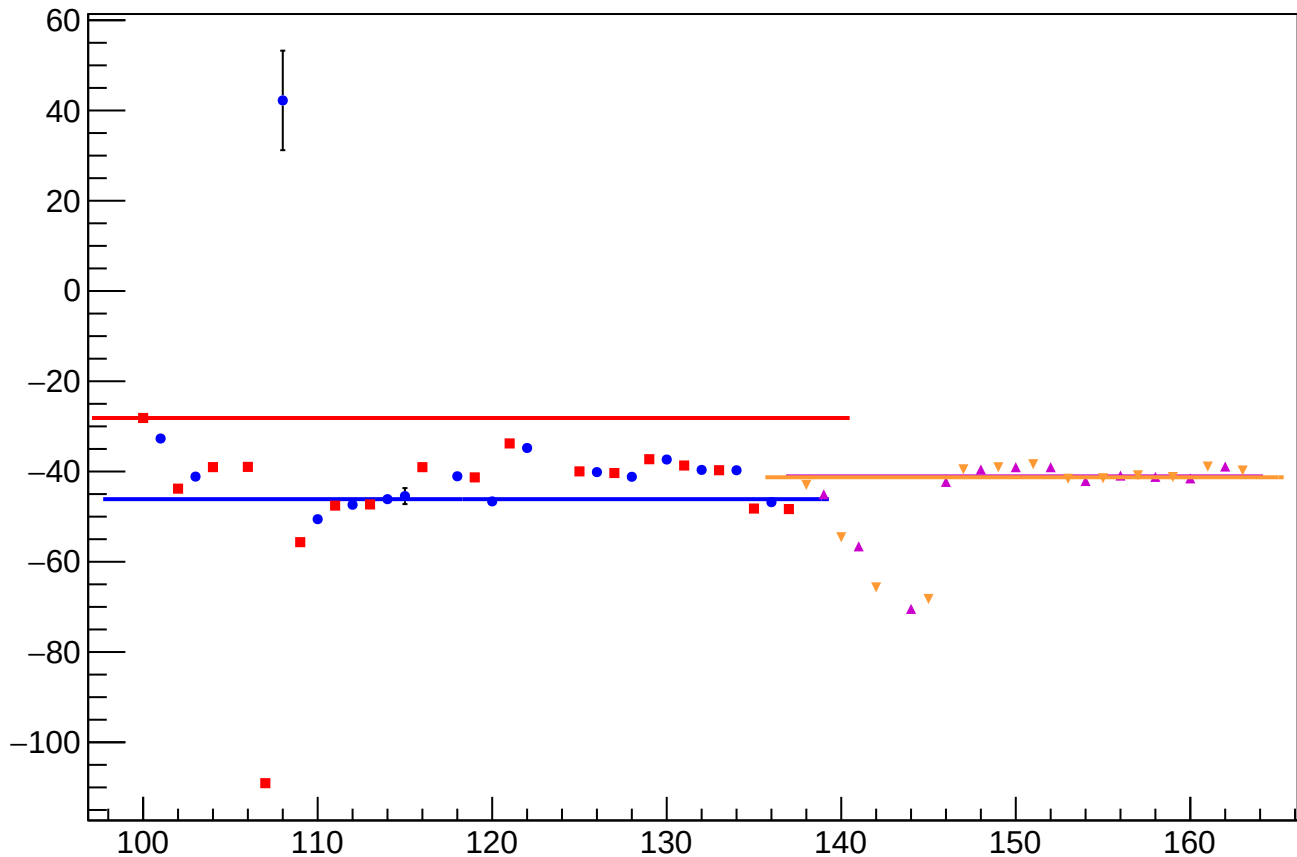
Left In: 219.925 $\pm$ 0.171  $\chi^2$ /NDF: 63991.2/11

+ sign 174.085 $\pm$ 0.000  $\chi^2$ /NDF: 157824.6/28

All: 174.085 $\pm$ 0.000  $\chi^2$ /NDF: 476515.2/58

- sign 189.542 $\pm$ 0.129  $\chi^2$ /NDF: 304299.1/29

# dit\_usl\_11X12X\_slope vs Slug



Right In:  $-46.126 \pm 0.000$   $\chi^2/\text{NDF}$ : 201273.7/15

Left Out:  $-41.276 \pm 0.008$   $\chi^2/\text{NDF}$ : 88874.0/12

Right Out:  $-28.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 746939.9/17

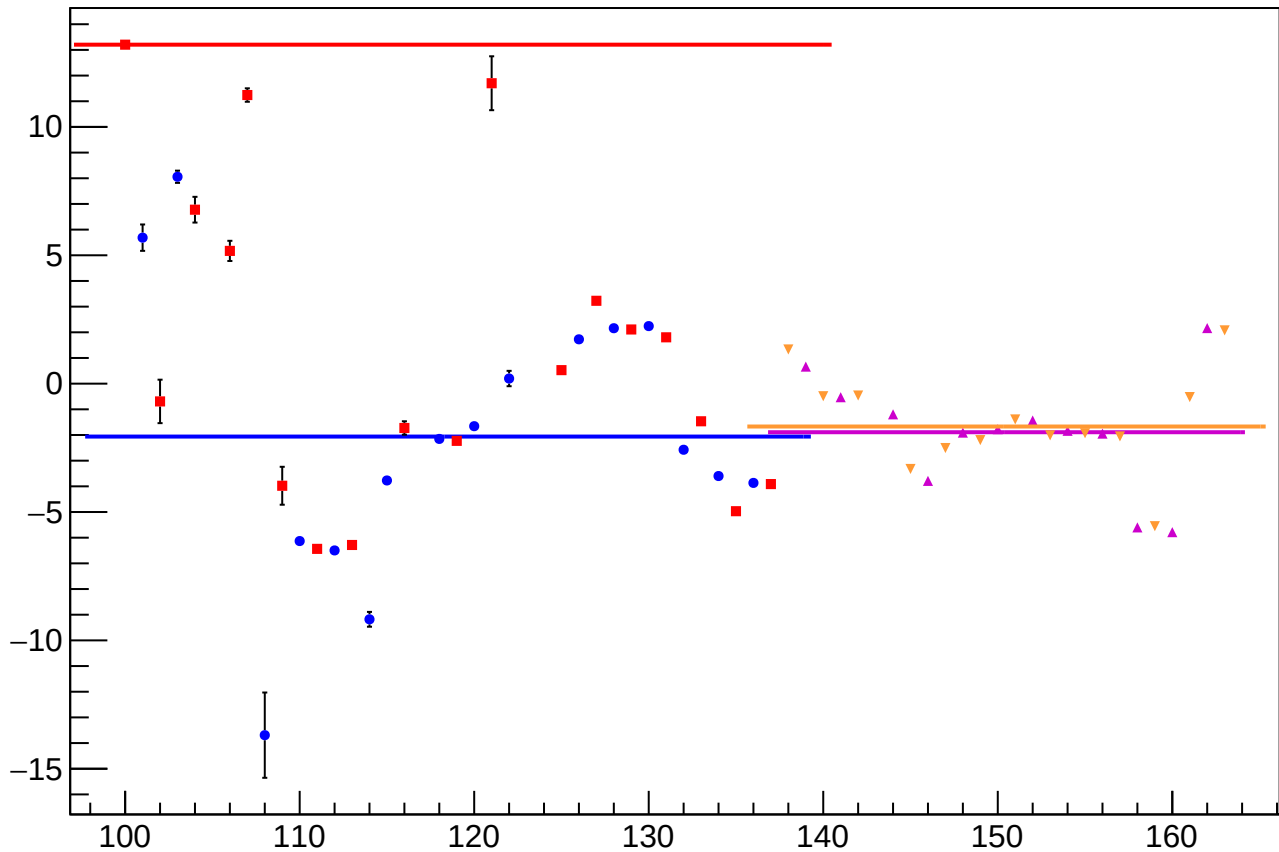
Left In:  $-41.076 \pm 0.010$   $\chi^2/\text{NDF}$ : 160753.7/11

+ sign  $-46.126 \pm 0.000$   $\chi^2/\text{NDF}$ : 638160.2/28

All:  $-39.778 \pm 0.000$   $\chi^2/\text{NDF}$ : 248795993231

- sign  $-28.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 2741369.9/29

# dit\_usl\_4aY\_slope vs Slug



Right In:  $-2.061 \pm 0.018$   $\chi^2/\text{NDF}$ : 25665.1/15

Left Out:  $-1.670 \pm 0.009$   $\chi^2/\text{NDF}$ : 67220.0/12

Right Out:  $13.204 \pm 0.000$   $\chi^2/\text{NDF}$ : 509721.0/17

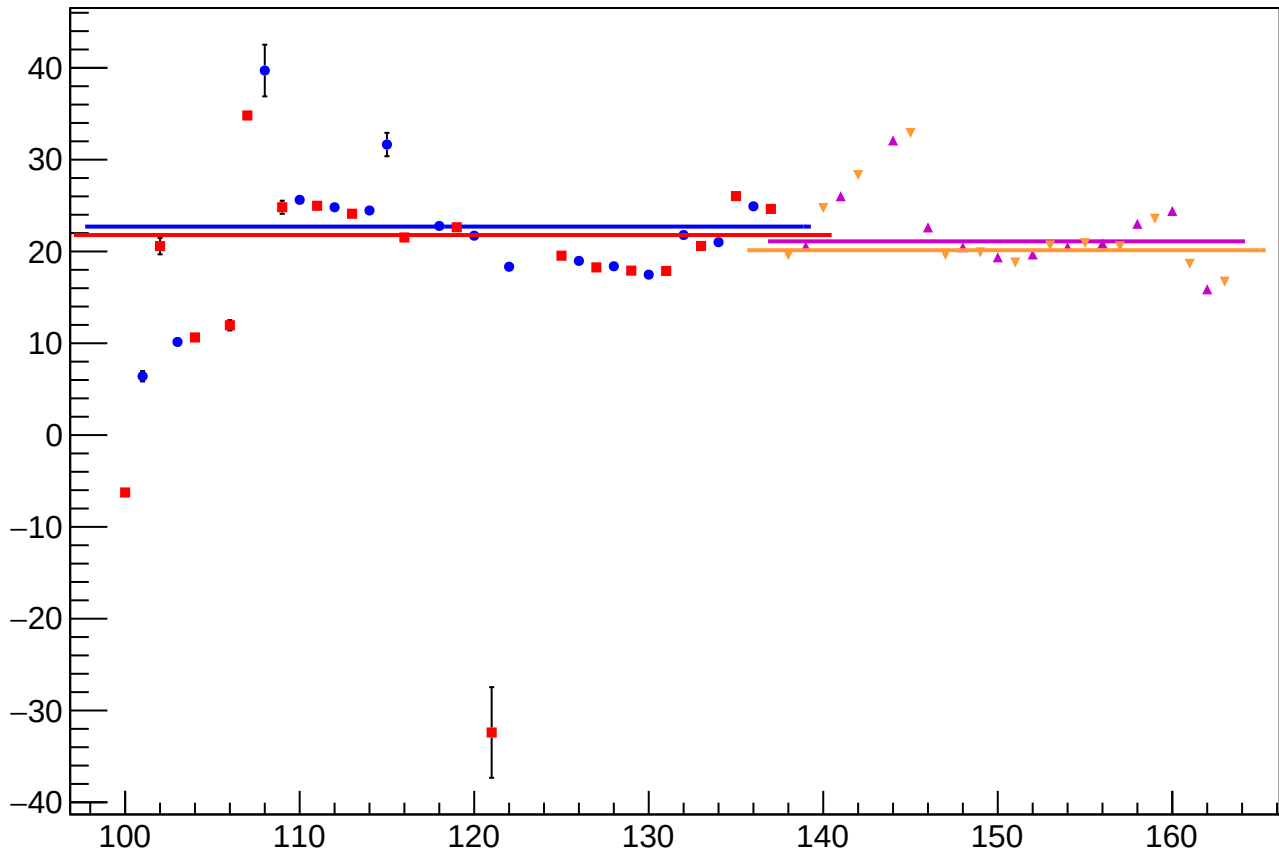
Left In:  $-1.892 \pm 0.007$   $\chi^2/\text{NDF}$ : 80822.3/11

+ sign  $-1.745 \pm 0.008$   $\chi^2/\text{NDF}$ : 93274.8/28

All:  $13.204 \pm 0.000$   $\chi^2/\text{NDF}$ : 8787309.2/58

- sign  $13.204 \pm 0.000$   $\chi^2/\text{NDF}$ : 5021705.8/29

# dit\_usl\_4eY\_slope vs Slug



Right In: 22.711 $\pm$ 0.019  $\chi^2$ /NDF: 22767.9/15

Left Out: 20.137 $\pm$ 0.010  $\chi^2$ /NDF: 46514.7/12

Right Out: 21.790 $\pm$ 0.022  $\chi^2$ /NDF: 26670.9/17

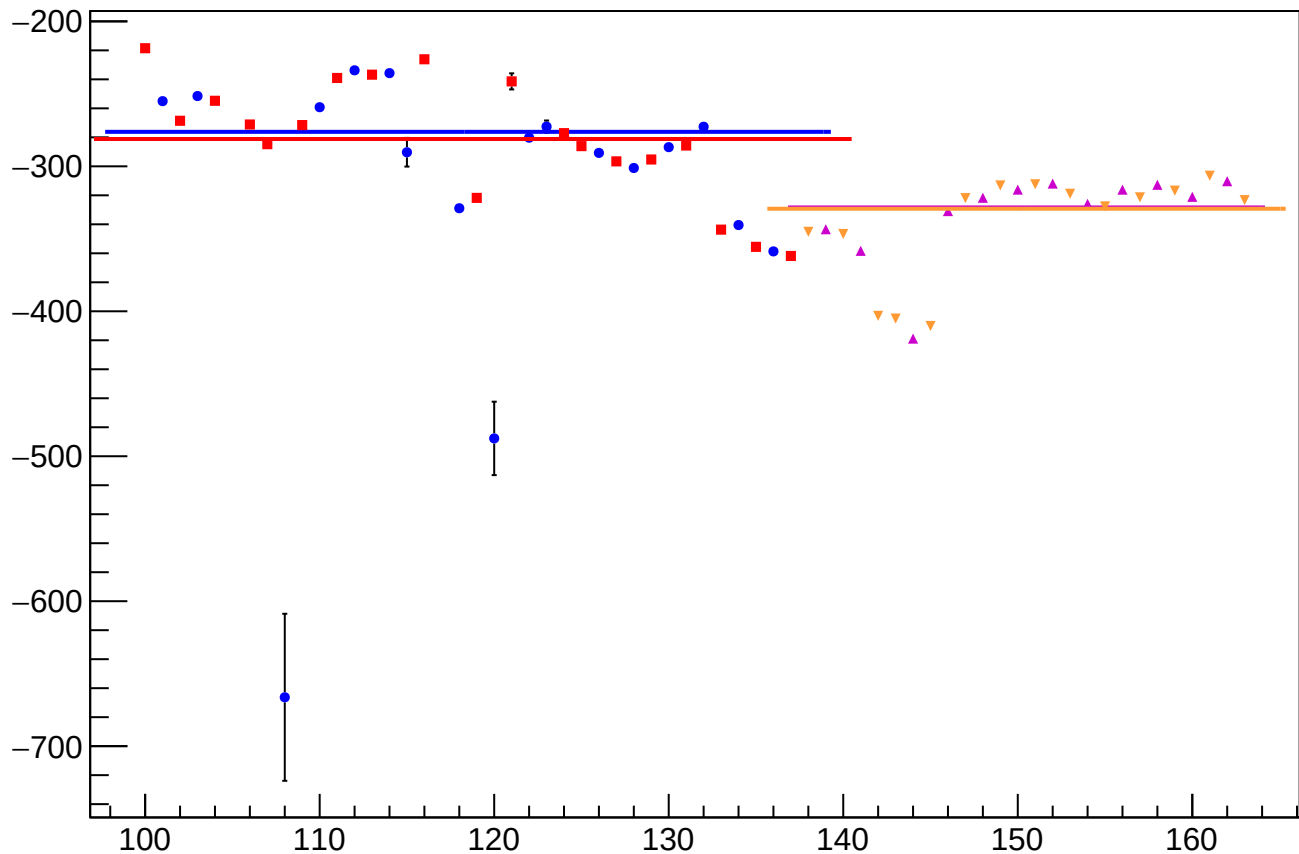
Left In: 21.105 $\pm$ 0.009  $\chi^2$ /NDF: 71171.6/11

+ sign 20.730 $\pm$ 0.009  $\chi^2$ /NDF: 83780.5/28

All: 20.990 $\pm$ 0.006  $\chi^2$ /NDF: 184013.5/58

- sign 21.203 $\pm$ 0.008  $\chi^2$ /NDF: 98712.3/29

# dit\_usr\_4aX\_slope vs Slug



Right In: -276.201 $\pm$ 0.167  $\chi^2$ /NDF: 58107.7/16

Left Out: -329.253 $\pm$ 0.146  $\chi^2$ /NDF: 29572.0/13

Right Out: -281.150 $\pm$ 0.148  $\chi^2$ /NDF: 77611.5/18

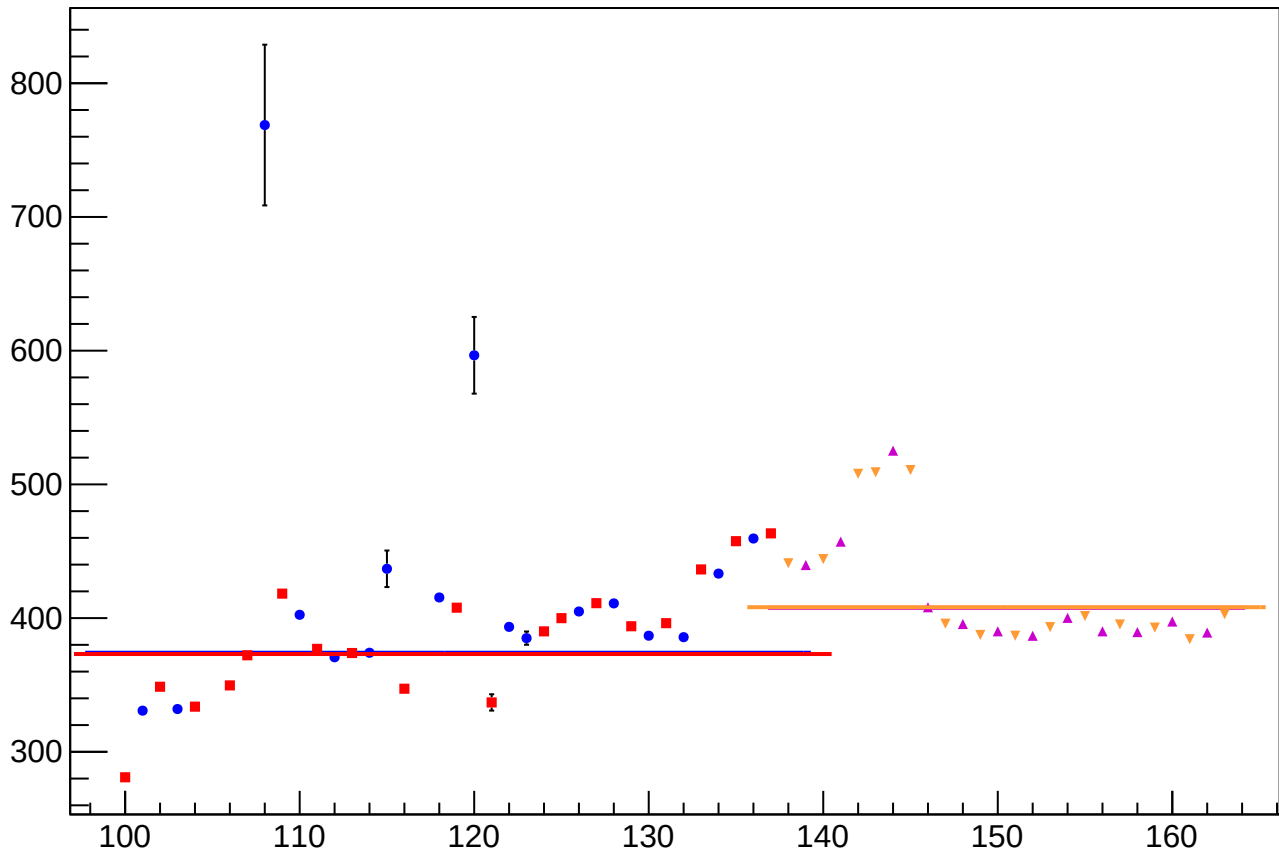
Left In: -328.358 $\pm$ 0.122  $\chi^2$ /NDF: 37615.5/11

+ sign -306.262 $\pm$ 0.110  $\chi^2$ /NDF: 145160.5/30

All: -307.997 $\pm$ 0.071  $\chi^2$ /NDF: 321789.2/61

- sign -309.268 $\pm$ 0.094  $\chi^2$ /NDF: 176194.8/30

# dit\_usr\_4eX\_slope vs Slug



Right In: 374.094 $\pm$ 0.000  $\chi^2$ /NDF: 35072.0/16

Left Out: 408.146 $\pm$ 0.145  $\chi^2$ /NDF: 51804.6/13

Right Out: 373.134 $\pm$ 0.158  $\chi^2$ /NDF: 108219.4/18

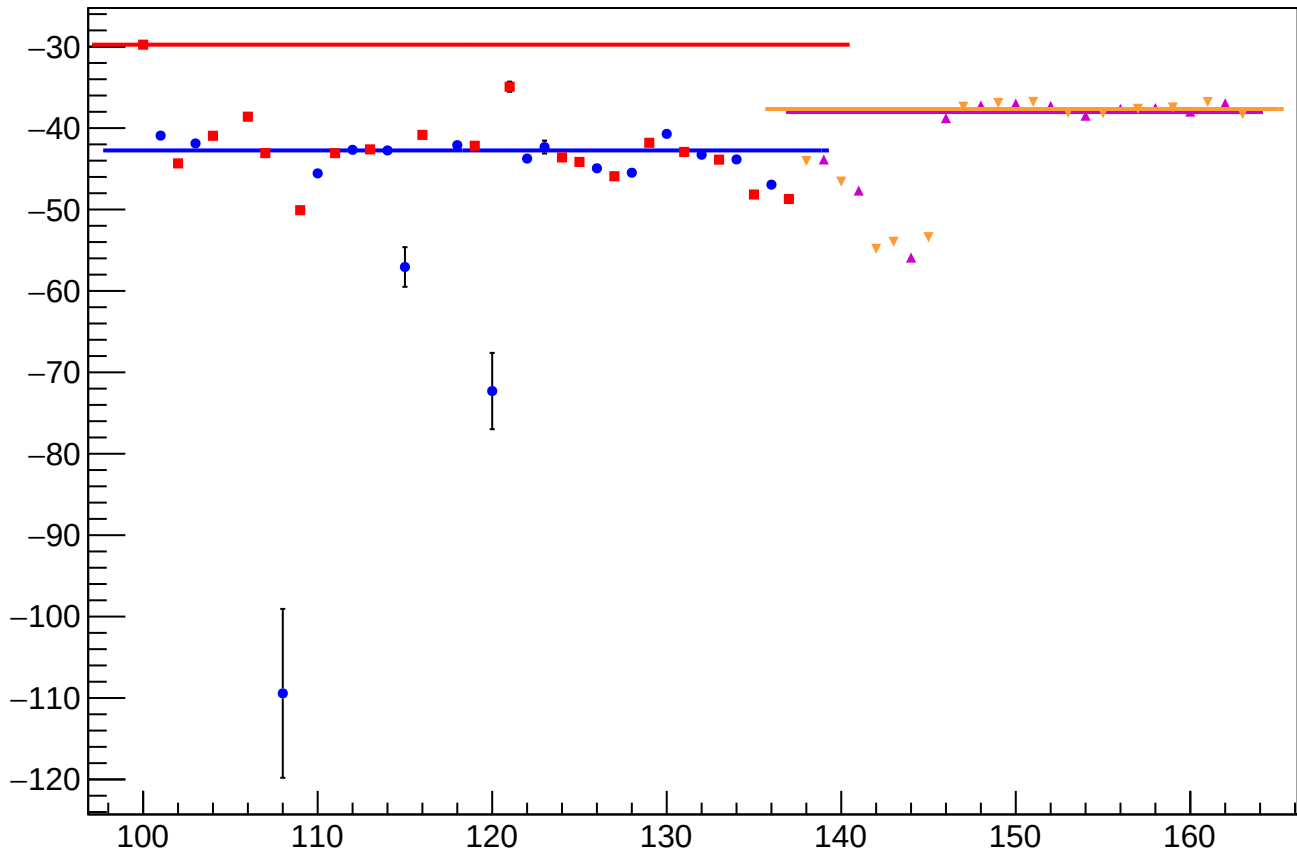
Left In: 407.683 $\pm$ 0.123  $\chi^2$ /NDF: 62546.0/11

+ sign 374.094 $\pm$ 0.000  $\chi^2$ /NDF: 141913.6/30

All: 374.094 $\pm$ 0.000  $\chi^2$ /NDF: 387632.6/61

- sign 394.678 $\pm$ 0.097  $\chi^2$ /NDF: 200600.0/30

# dit\_usr\_11X12X\_slope vs Slug



Right In: -42.744 $\pm$ 0.000  $\chi^2$ /NDF: 13262.6/16

Left Out: -37.659 $\pm$ 0.005  $\chi^2$ /NDF: 256400.0/13

Right Out: -29.754 $\pm$ 0.000  $\chi^2$ /NDF: 483930.3/18

Left In: -38.028 $\pm$ 0.005  $\chi^2$ /NDF: 147784.7/11

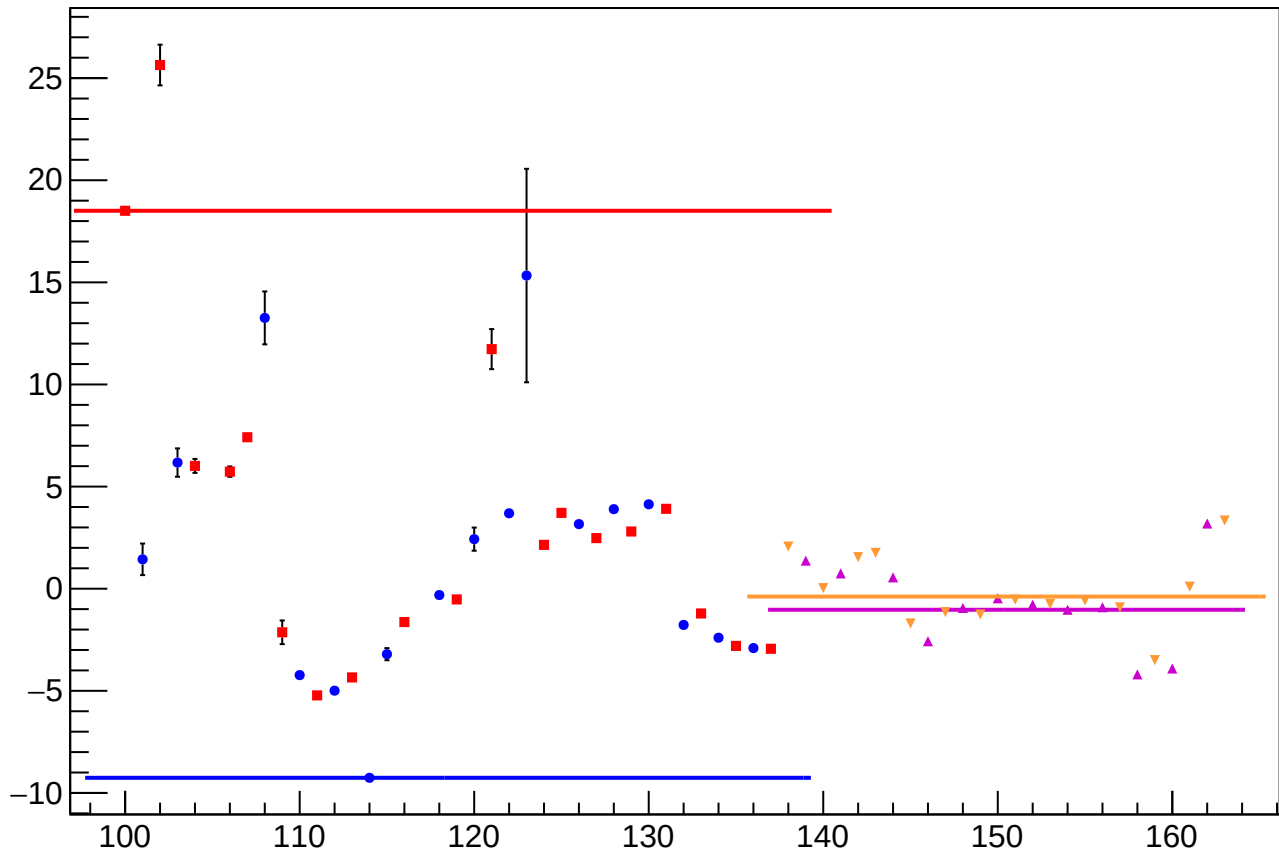
+ sign -42.744 $\pm$ 0.000  $\chi^2$ /NDF: 1461355.2/30

All: -38.159 $\pm$ 0.000  $\chi^2$ /NDF: 129765212680

- sign -29.754 $\pm$ 0.000  $\chi^2$ /NDF: 3299988.0/30



# dit\_usr\_4aY\_slope vs Slug



Right In:  $-9.259 \pm 0.000$   $\chi^2/\text{NDF}$ : 405850.5/16

Left Out:  $-0.384 \pm 0.008$   $\chi^2/\text{NDF}$ : 65152.1/13

Right Out:  $18.504 \pm 0.000$   $\chi^2/\text{NDF}$ : 7366781.0/18

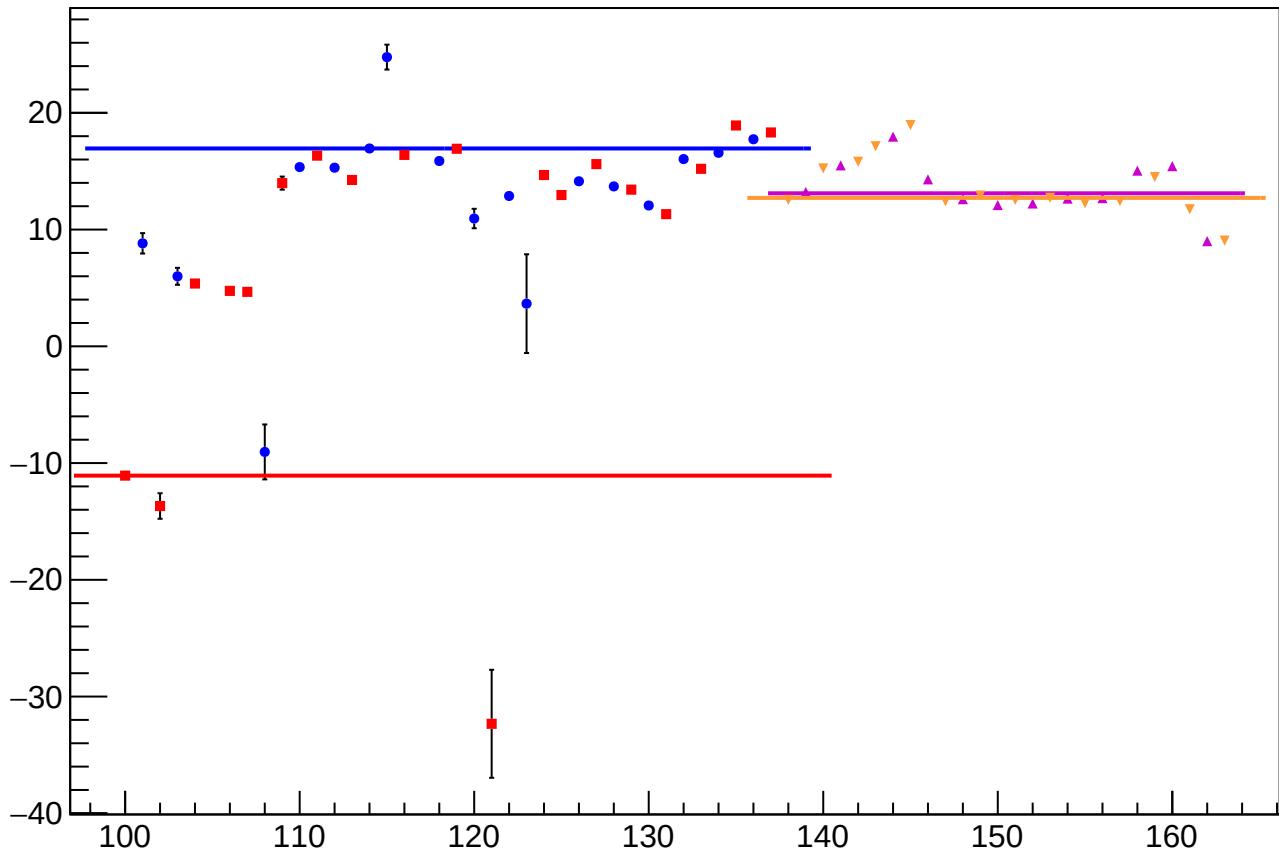
Left In:  $-1.031 \pm 0.008$   $\chi^2/\text{NDF}$ : 59574.8/11

+ sign  $-9.259 \pm 0.000$   $\chi^2/\text{NDF}$ : 1826020.9/30

All:  $6.039 \pm 0.000$   $\chi^2/\text{NDF}$ : 1645057450595

- sign  $18.504 \pm 0.000$   $\chi^2/\text{NDF}$ : 14208928.9/30

# dit\_usr\_4eY\_slope vs Slug



Right In: 16.947 $\pm$ 0.000  $\chi^2$ /NDF: 11231.8/16

Left Out: 12.714 $\pm$ 0.009  $\chi^2$ /NDF:33253.2/13

Right Out: -11.075 $\pm$ 0.000  $\chi^2$ /NDF: 2712010.0/18

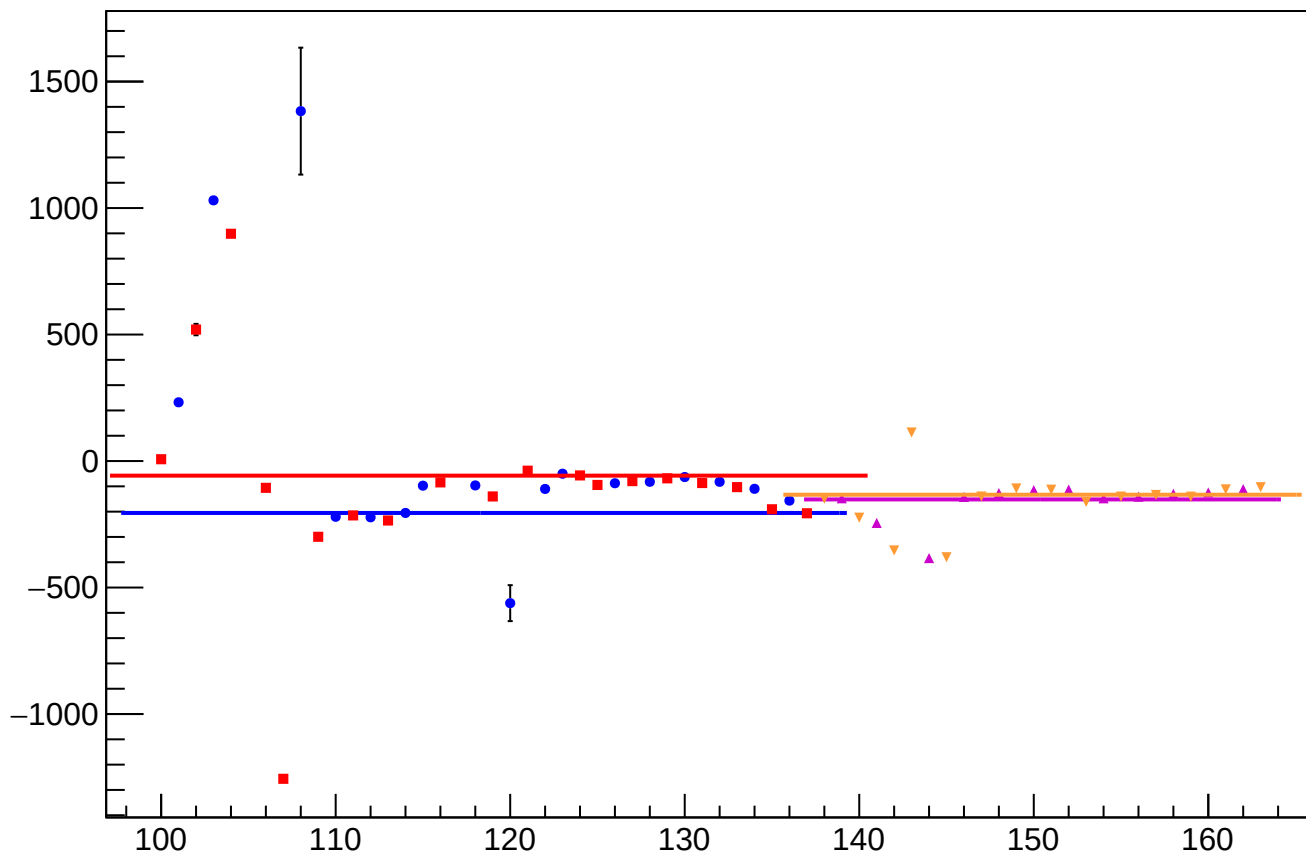
Left In: 13.107 $\pm$ 0.011  $\chi^2$ /NDF:25837.5/11

+ sign 16.947 $\pm$ 0.000  $\chi^2$ /NDF: 250424.4/30

All: -2.268 $\pm$ 0.000  $\chi^2$ /NDF: 4692527454635

- sign -11.075 $\pm$ 0.000  $\chi^2$ /NDF: 7929527.3/30

# dit\_atl1\_4aX\_slope vs Slug



Right In: -205.160+/-0.000  $\chi^2/\text{NDF}$ : 582775.6/16

Left Out: -133.123+/-0.270  $\chi^2/\text{NDF}$ : 44420.1/13

Right Out: -57.684+/-0.283  $\chi^2/\text{NDF}$ : 114854.9/18

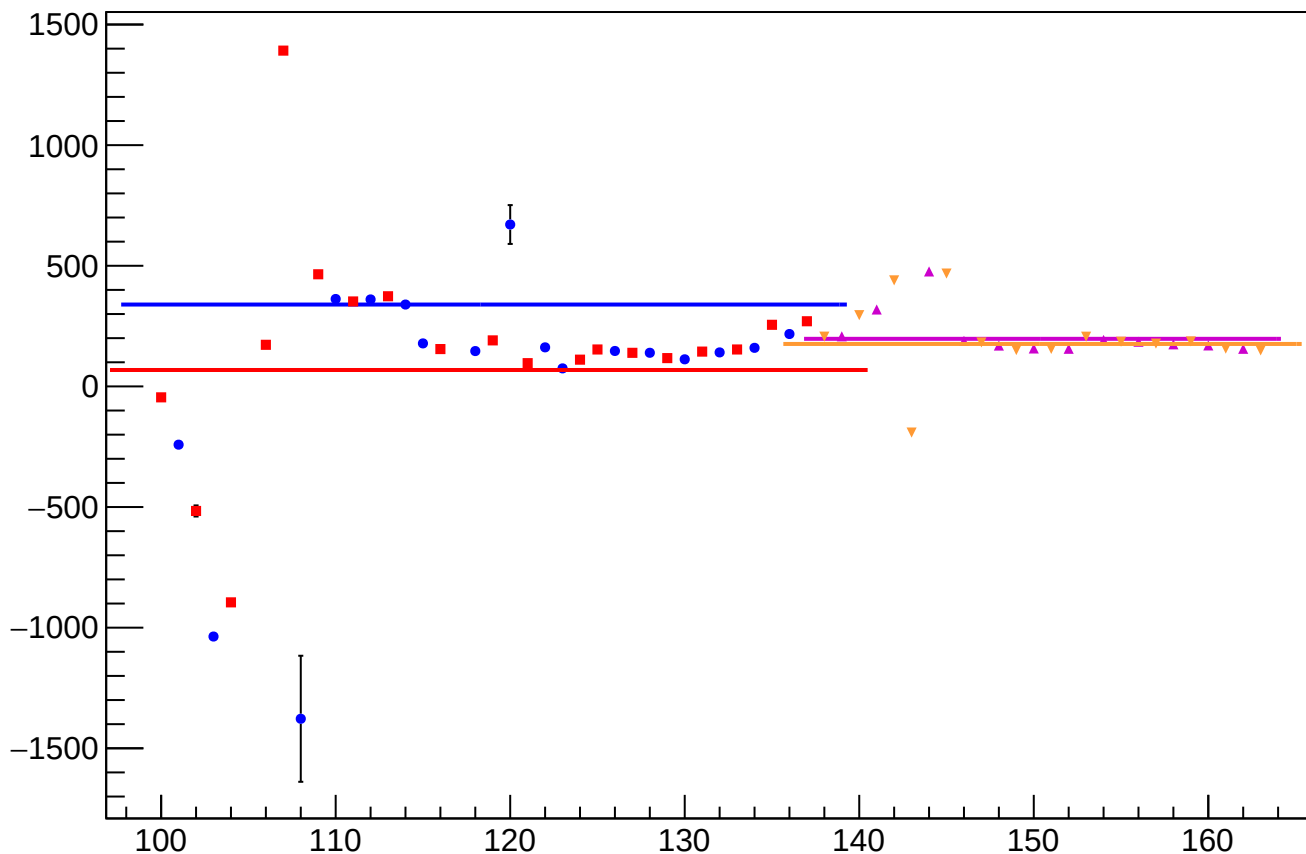
Left In: -151.742+/-0.322  $\chi^2/\text{NDF}$ : 41347.1/11

+ sign -205.160+/-0.000  $\chi^2/\text{NDF}$ : 698543.7/30

All: -205.160+/-0.000  $\chi^2/\text{NDF}$ : 1153182.3/61

- sign -98.753+/-0.213  $\chi^2/\text{NDF}$ : 204314.9/30

# dit\_atl1\_4eX\_slope vs Slug



Right In: 339.325+/-0.000  $\chi^2/\text{NDF}$ : 1030606.3/16

Left Out: 175.935+/-0.270  $\chi^2/\text{NDF}$ : 80110.1/13

Right Out: 68.024+/-0.286  $\chi^2/\text{NDF}$ : 272330.9/18

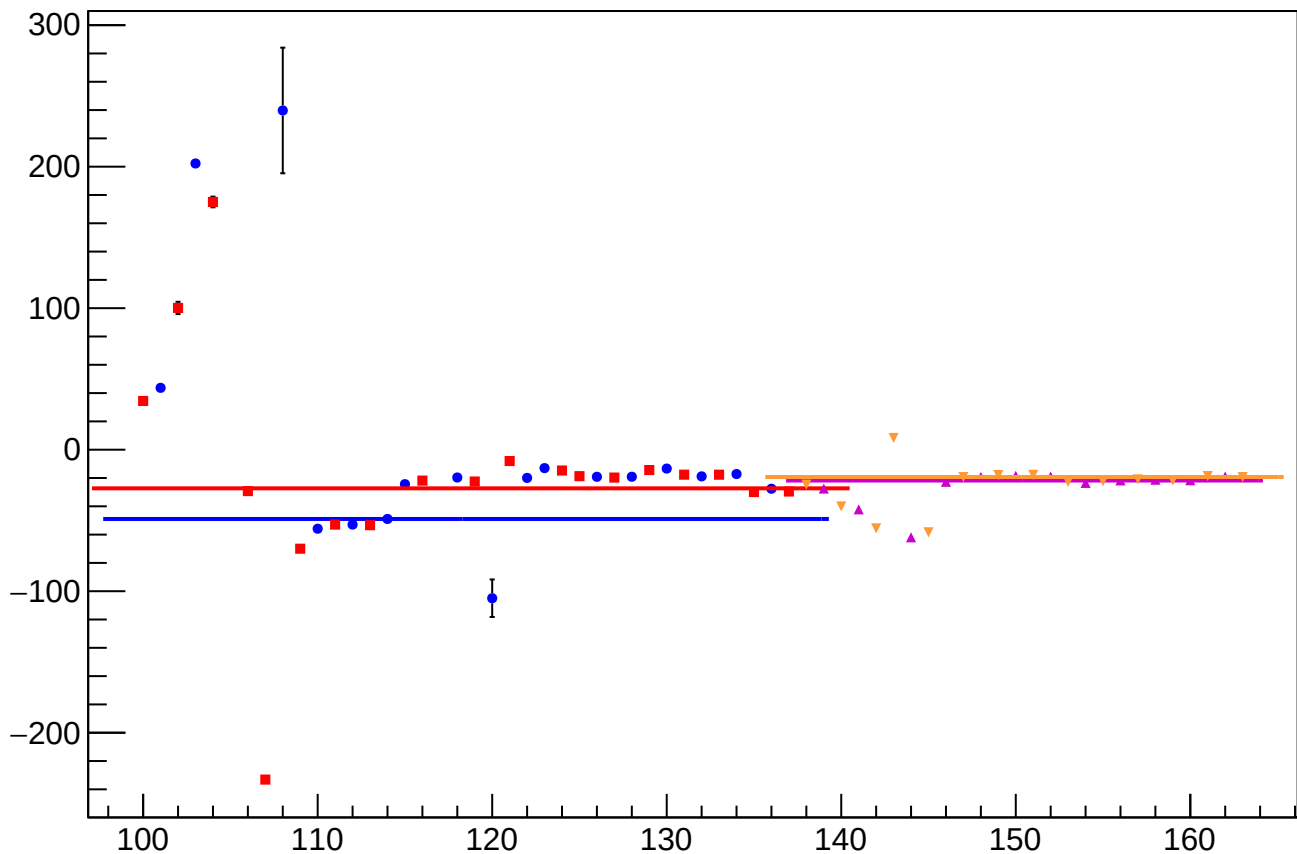
Left In: 197.221+/-0.326  $\chi^2/\text{NDF}$ : 47856.1/11

+ sign 339.325+/-0.000  $\chi^2/\text{NDF}$ : 1477919.8/30

All: 339.325+/-0.000  $\chi^2/\text{NDF}$ : 2887440.9/61

- sign 124.228+/-0.215  $\chi^2/\text{NDF}$ : 408912.0/30

# dit\_atl1\_11X12X\_slope vs Slug



Right In:  $-48.945 \pm 0.000$   $\chi^2/\text{NDF}$ : 5408370.4/16

Left Out:  $-19.313 \pm 0.013$   $\chi^2/\text{NDF}$ : 564408.2/13

Right Out:  $-27.303 \pm 0.052$   $\chi^2/\text{NDF}$ : 167879.9/18

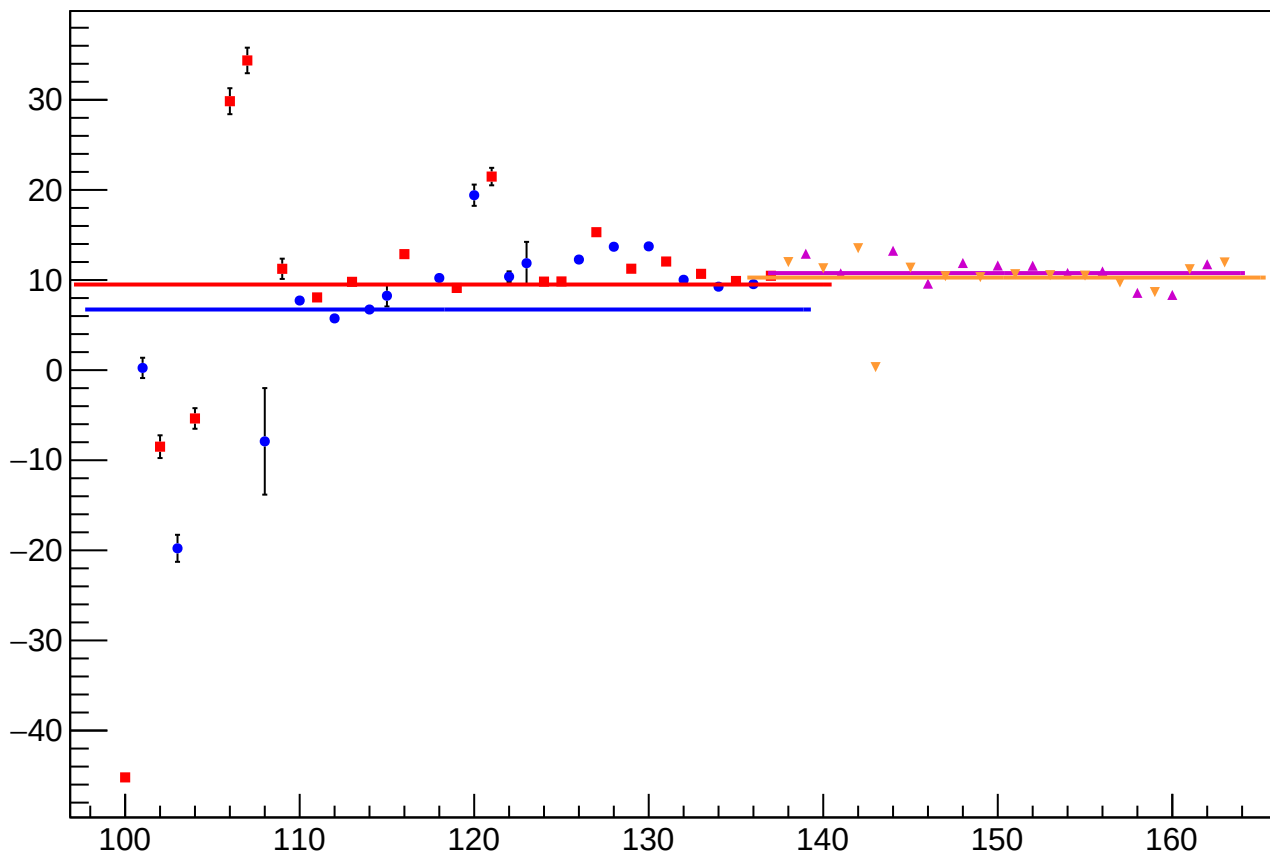
Left In:  $-21.789 \pm 0.018$   $\chi^2/\text{NDF}$ : 124006.1/11

+ sign  $-48.945 \pm 0.000$   $\chi^2/\text{NDF}$ : 11148768.5/30

All:  $-48.945 \pm 0.000$   $\chi^2/\text{NDF}$ : 13996237.8/61

- sign  $-22.362 \pm 0.017$   $\chi^2/\text{NDF}$ : 302082.9/30

# dit\_atl1\_4aY\_slope vs Slug



Right In:  $6.728 \pm 0.000$   $\chi^2/\text{NDF}$ : 13749.2/16

Left Out:  $10.274 \pm 0.017$   $\chi^2/\text{NDF}$ : 23519.1/13

Right Out:  $9.502 \pm 0.036$   $\chi^2/\text{NDF}$ : 26822.1/18

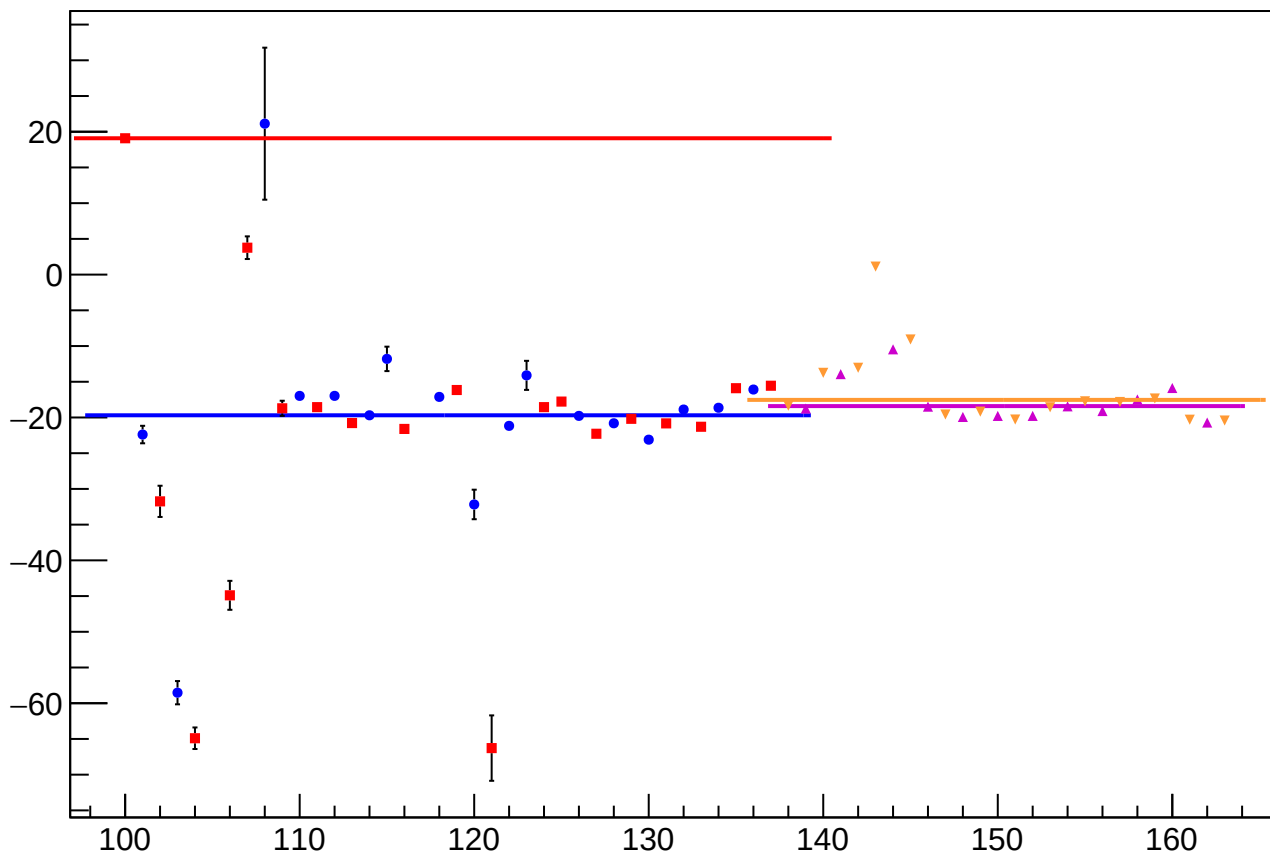
Left In:  $10.771 \pm 0.015$   $\chi^2/\text{NDF}$ : 8391.9/11

+ sign  $6.728 \pm 0.000$   $\chi^2/\text{NDF}$ : 79074.5/30

All:  $6.728 \pm 0.000$   $\chi^2/\text{NDF}$ : 193846.5/61

- sign  $10.582 \pm 0.014$   $\chi^2/\text{NDF}$ : 36294.4/30

# dit\_atl1\_4eY\_slope vs Slug



Right In:  $-19.693 \pm 0.000$   $\chi^2/\text{NDF}$ : 7579.0/16

Left Out:  $-17.537 \pm 0.021$   $\chi^2/\text{NDF}$ : 39125.5/13

Right Out:  $19.086 \pm 0.000$   $\chi^2/\text{NDF}$ : 610746.9/18

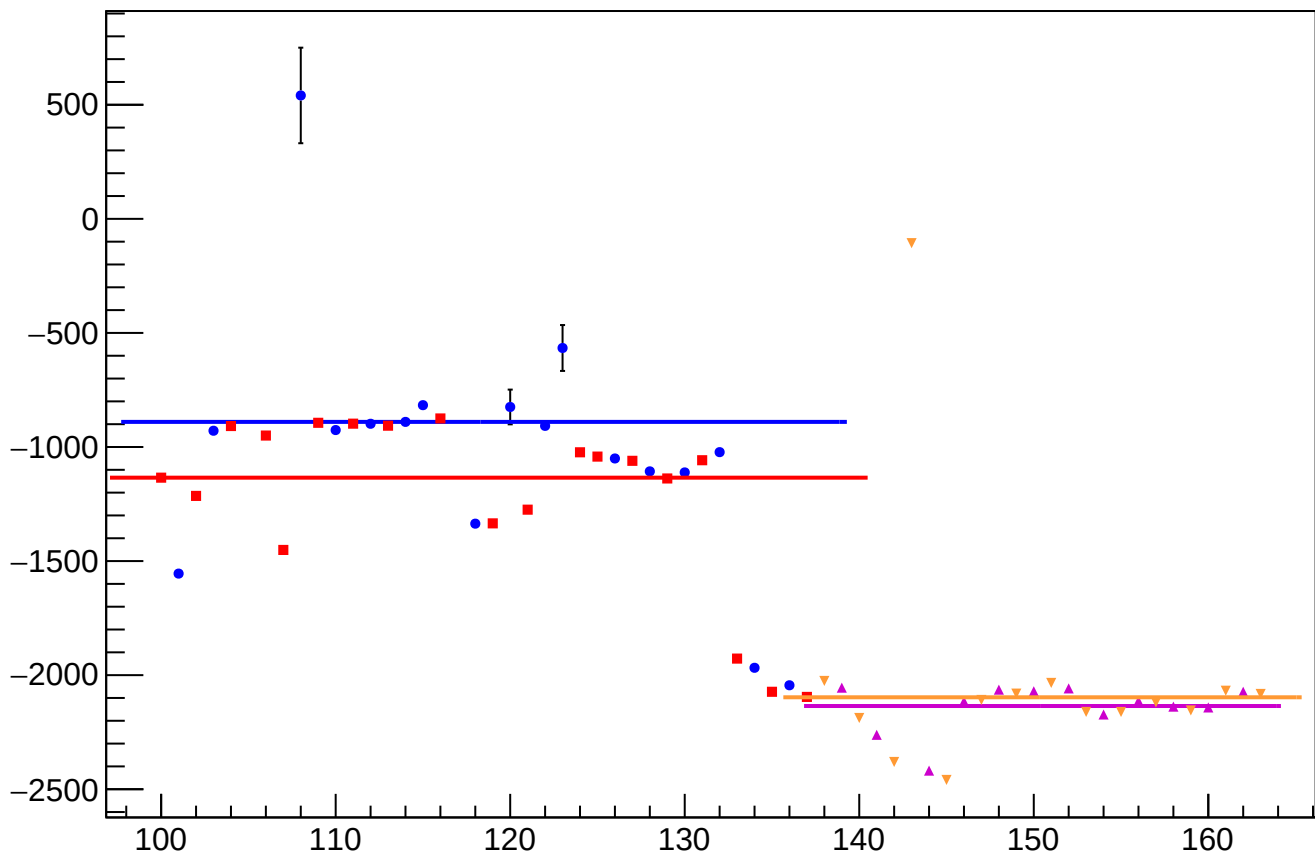
Left In:  $-18.407 \pm 0.020$   $\chi^2/\text{NDF}$ : 7635.6/11

+ sign  $-19.693 \pm 0.000$   $\chi^2/\text{NDF}$ : 57567.3/30

All:  $-6.006 \pm 0.000$   $\chi^2/\text{NDF}$ : 4625637731292

- sign  $19.086 \pm 0.000$   $\chi^2/\text{NDF}$ : 4042007.7/30

# dit\_atl2\_4aX\_slope vs Slug



Right In:  $-889.928 \pm 0.000$   $\chi^2/\text{NDF}$ : 775896.0/16

Left Out:  $-2097.065 \pm 0.488$   $\chi^2/\text{NDF}$ : 265264.5/13

Right Out:  $-1134.421 \pm 0.000$   $\chi^2/\text{NDF}$ : 733812.0/18

Left In:  $-2135.289 \pm 0.503$   $\chi^2/\text{NDF}$ : 32555.4/11

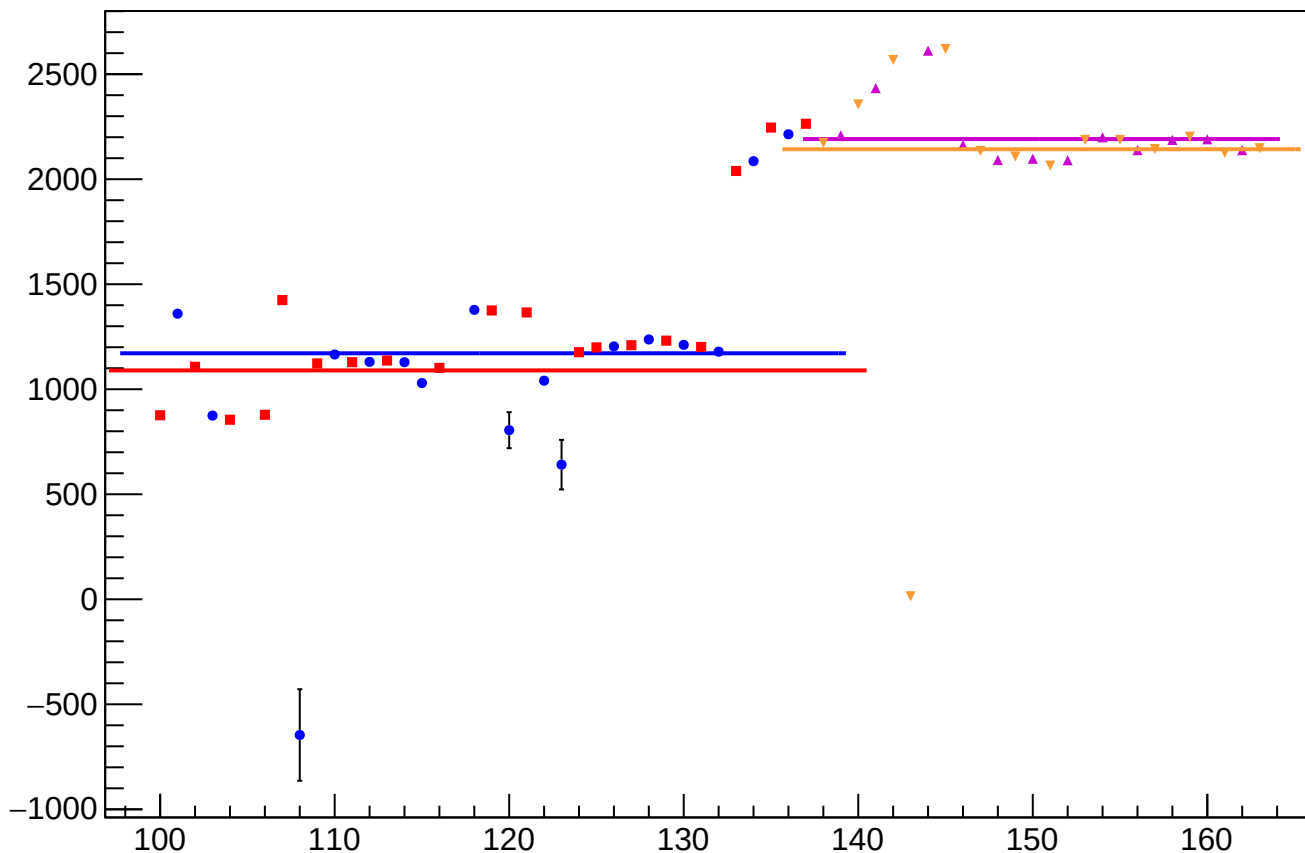
+ sign  $-889.928 \pm 0.000$   $\chi^2/\text{NDF}$ : 7151067.9/30

All:  $-976.220 \pm 0.000$   $\chi^2/\text{NDF}$ : 44889787387

- sign  $-1134.421 \pm 0.000$   $\chi^2/\text{NDF}$ : 4725506.1/30



dit\_atl2\_4eX\_slope vs Slug



Right In: 1171.188 $\pm$ 0.245  $\chi^2$ /NDF: 508989.2/16

Left Out: 2142.685 $\pm$ 0.484  $\chi^2$ /NDF: 303098.9/13

Right Out: 1089.705 $\pm$ 0.253  $\chi^2$ /NDF: 1100321.6/18

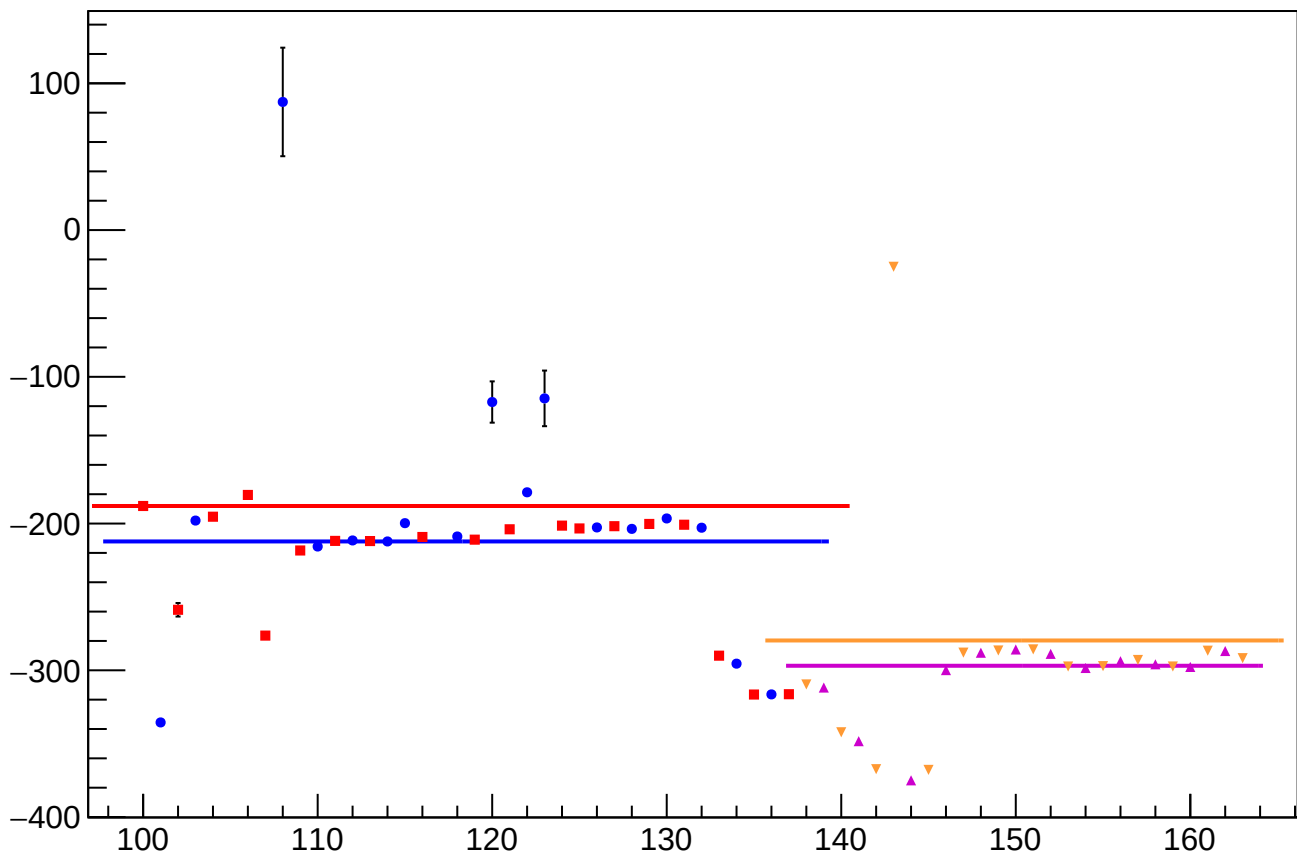
Left In: 2191.150 $\pm$ 0.509  $\chi^2$ /NDF: 56151.1/11

+ sign 1369.825 $\pm$ 0.219  $\chi^2$ /NDF: 4017227.9/30

All: 1340.209 $\pm$ 0.158  $\chi^2$ /NDF: 8961351.6/63

- sign 1308.378 $\pm$ 0.227  $\chi^2$ /NDF: 4906131.0/30

# dit\_atl2\_11X12X\_slope vs Slug



Right In: -212.190+/-0.000  $\chi^2/\text{NDF}$ : 1149195.1/16

Left Out: -279.674+/-0.027  $\chi^2/\text{NDF}$ : 5750878.2/13

Right Out: -188.033+/-0.000  $\chi^2/\text{NDF}$ : 602264.3/18

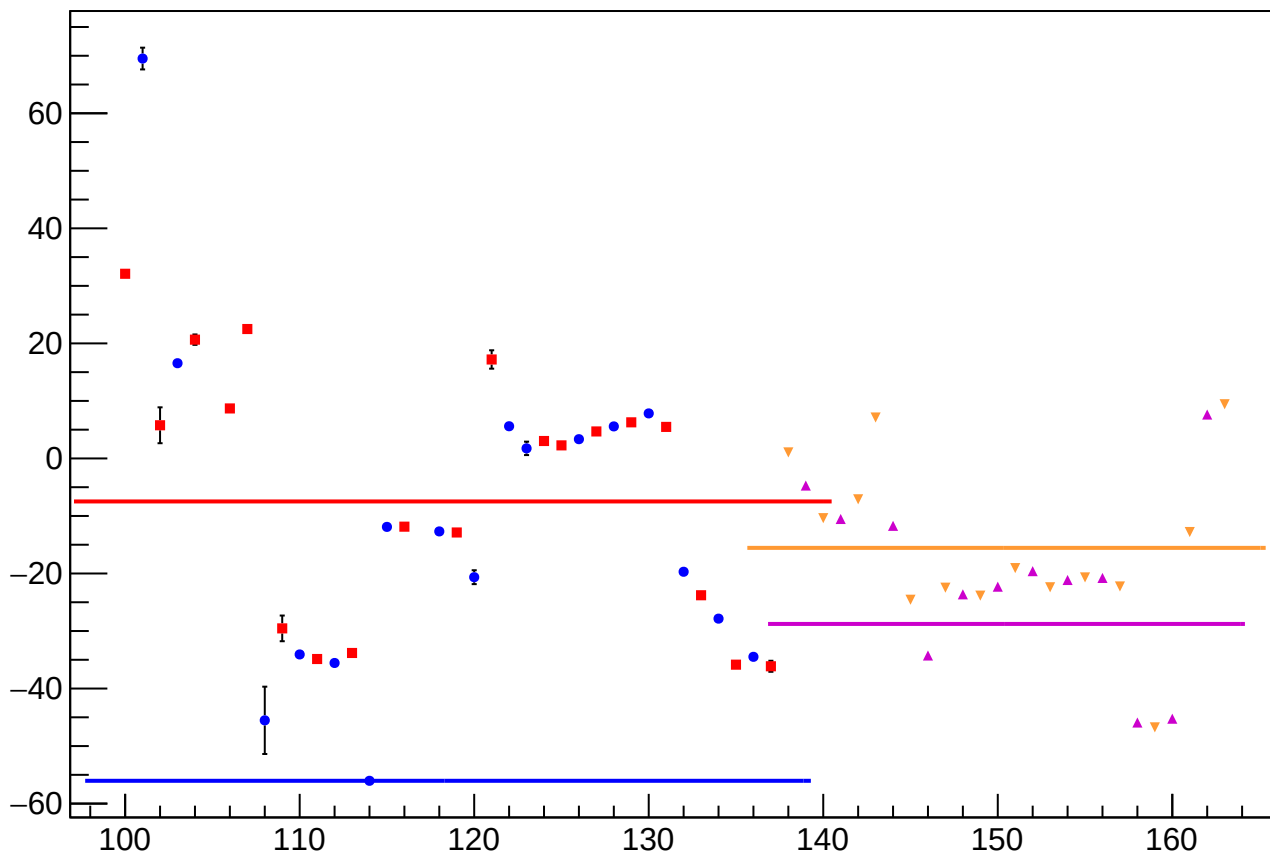
Left In: -296.907+/-0.027  $\chi^2/\text{NDF}$ : 291400.4/11

+ sign -212.190+/-0.000  $\chi^2/\text{NDF}$ : 12928527.9/30

All: -195.625+/-0.000  $\chi^2/\text{NDF}$ : 13622303625

- sign -188.033+/-0.000  $\chi^2/\text{NDF}$ : 17655770.1/30

# dit\_atl2\_4aY\_slope vs Slug



Right In:  $-56.037 \pm 0.000$   $\chi^2/\text{NDF}$ : 1585420.7/16

Left Out:  $-15.546 \pm 0.023$   $\chi^2/\text{NDF}$ : 693913.1/13

Right Out:  $-7.476 \pm 0.042$   $\chi^2/\text{NDF}$ : 173893.8/18

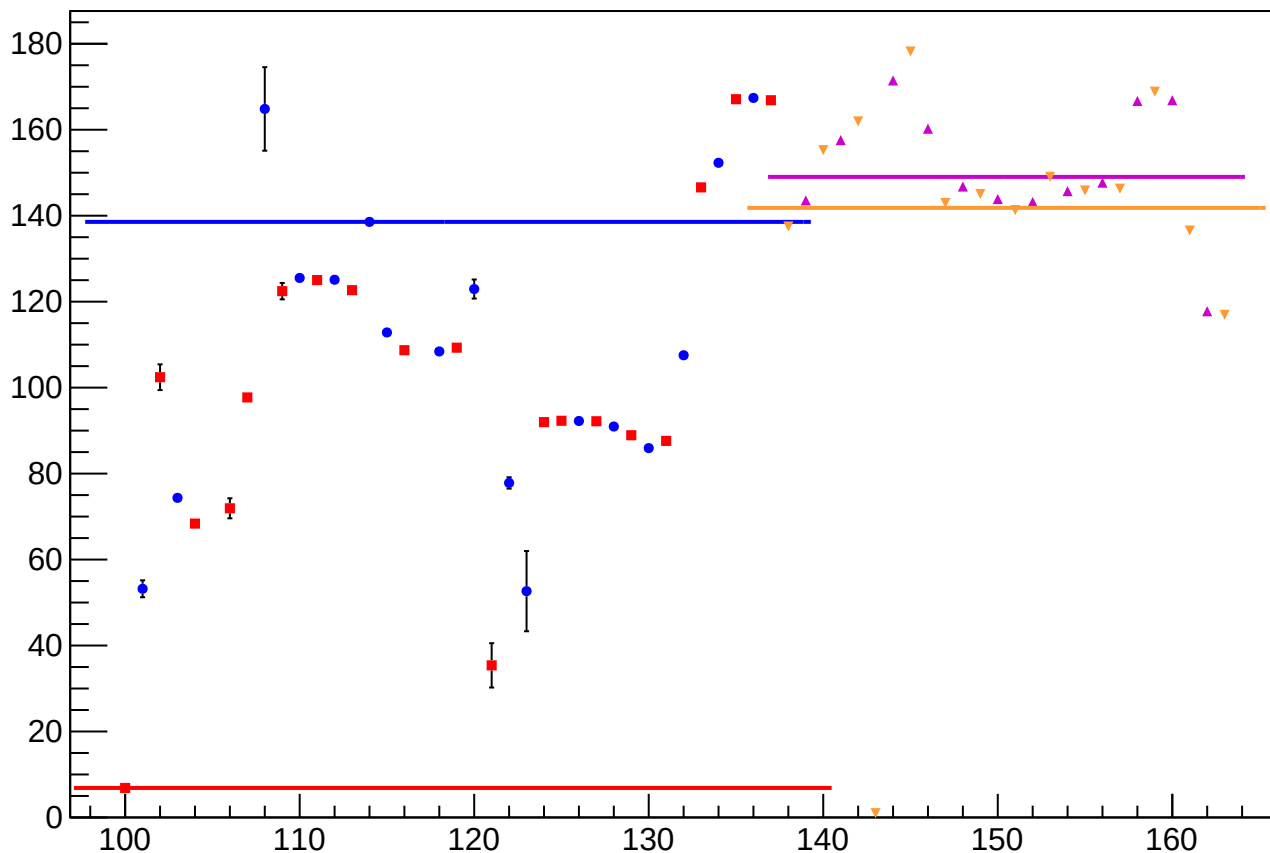
Left In:  $-28.769 \pm 0.025$   $\chi^2/\text{NDF}$ : 373163.7/11

+ sign  $-56.037 \pm 0.000$   $\chi^2/\text{NDF}$ : 5278430.1/30

All:  $-56.037 \pm 0.000$   $\chi^2/\text{NDF}$ : 8357775.5/61

- sign  $-23.292 \pm 0.021$   $\chi^2/\text{NDF}$ : 736356.3/30

# dit\_atl2\_4eY\_slope vs Slug



Right In: 138.565 $\pm$ 0.000  $\chi^2$ /NDF: 901159.7/16

Left Out: 141.824 $\pm$ 0.032  $\chi^2$ /NDF: 472045.0/13

Right Out: 6.866 $\pm$ 0.000  $\chi^2$ /NDF: 8047391.7/18

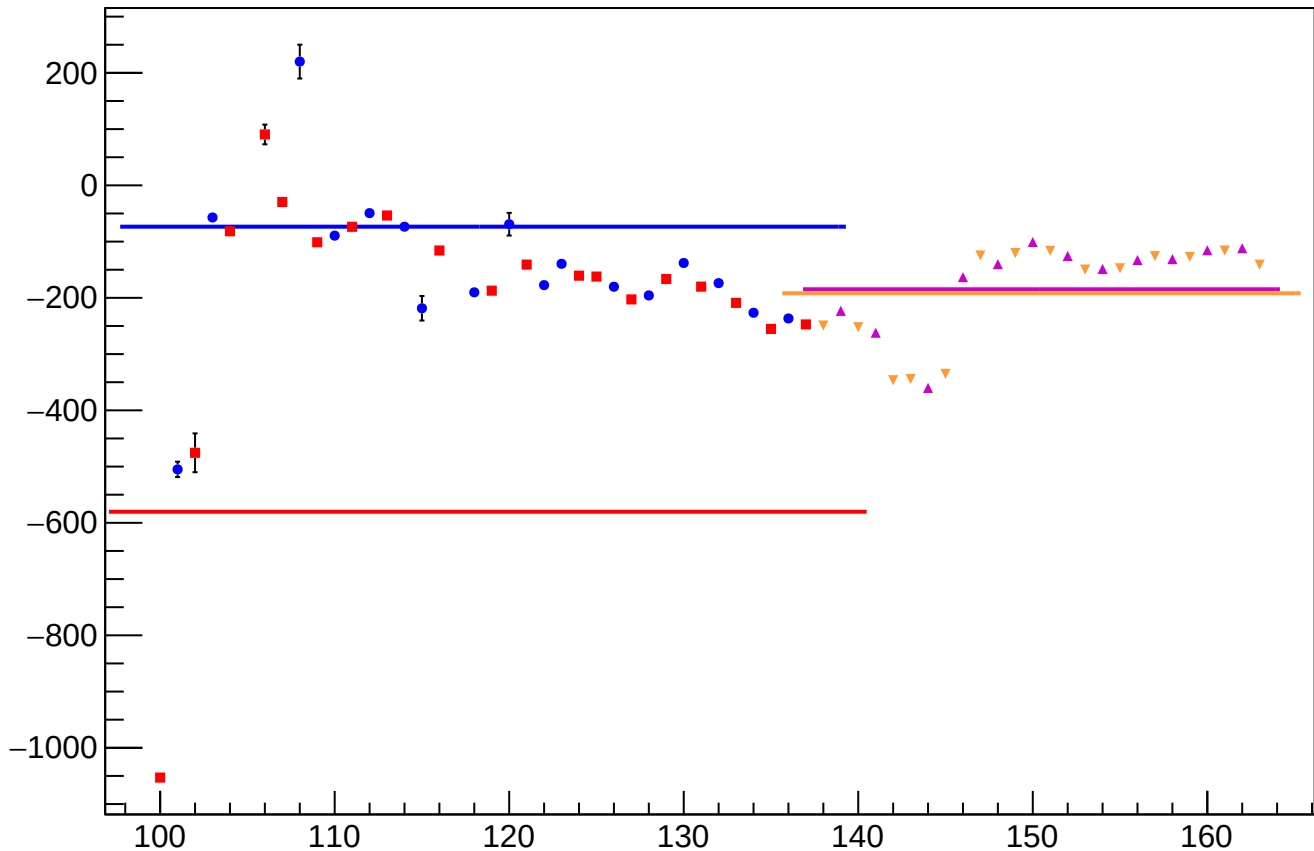
Left In: 149.031 $\pm$ 0.034  $\chi^2$ /NDF: 132458.3/11

+ sign 138.565 $\pm$ 0.000  $\chi^2$ /NDF: 1383438.4/30

All: 7.101 $\pm$ 0.000  $\chi^2$ /NDF: 23576822681928

- sign 6.866 $\pm$ 0.000  $\chi^2$ /NDF: 25611000.3/30

# dit\_atr1\_4aX\_slope vs Slug



Right In: -73.485 $\pm$ 0.000  $\chi^2$ /NDF: 98703.2/16

Left Out: -191.923 $\pm$ 0.314  $\chi^2$ /NDF: 65047.4/13

Right Out: -580.262 $\pm$ 0.261  $\chi^2$ /NDF: 3031609.5/18

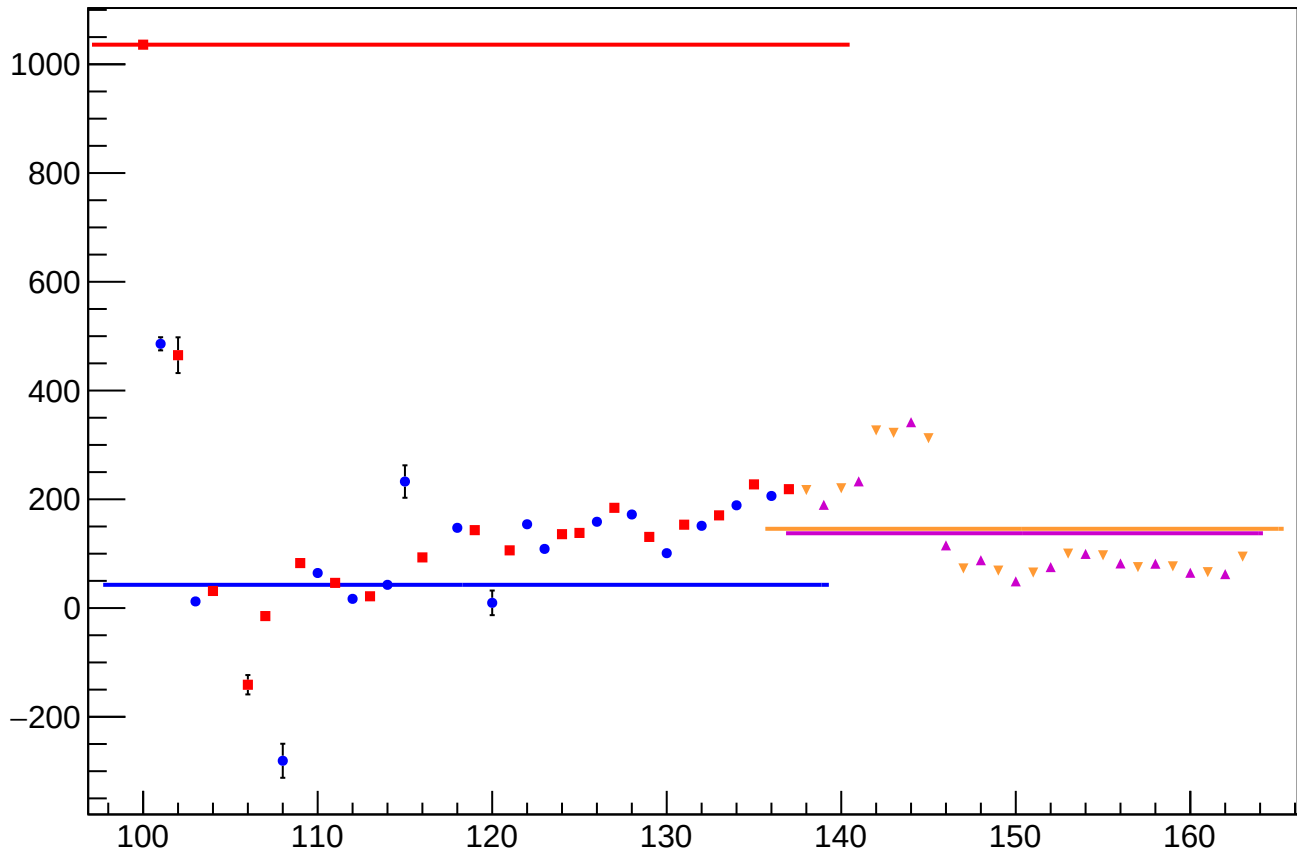
Left In: -184.738 $\pm$ 0.340  $\chi^2$ /NDF: 60486.3/11

+ sign -73.485 $\pm$ 0.000  $\chi^2$ /NDF: 305644.1/30

All: -73.485 $\pm$ 0.000  $\chi^2$ /NDF: 7276742.5/61

- sign -433.520 $\pm$ 0.207  $\chi^2$ /NDF: 3944490.5/30

# dit\_atr1\_4eX\_slope vs Slug



Right In: 42.743+/-0.000  $\chi^2/\text{NDF}$ : 84599.8/16

Left Out: 145.774+/-0.318  $\chi^2/\text{NDF}$ : 79687.8/13

Right Out: 1036.068+/-0.000  $\chi^2/\text{NDF}$ : 4933722.5/18

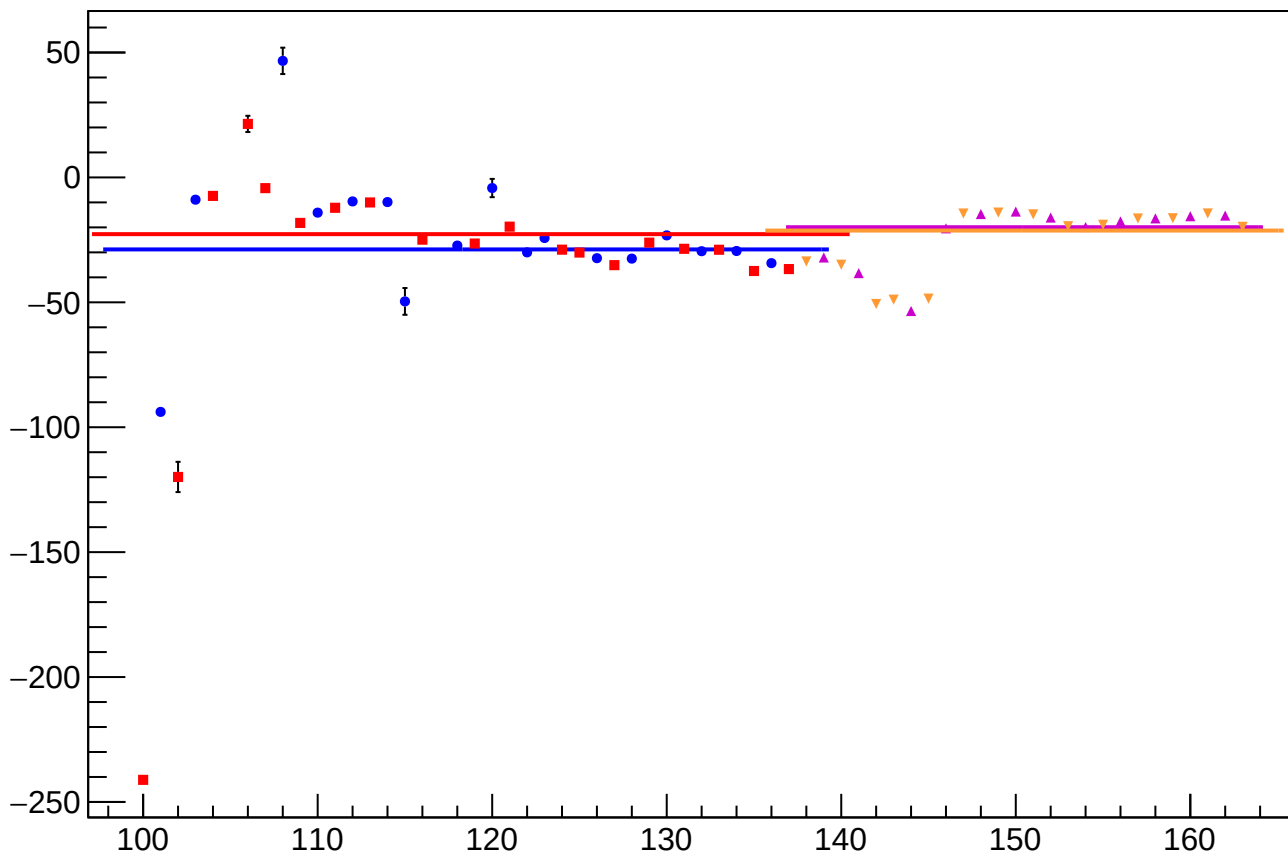
Left In: 137.541+/-0.347  $\chi^2/\text{NDF}$ : 70035.1/11

+ sign 42.743+/-0.000  $\chi^2/\text{NDF}$ : 268968.2/30

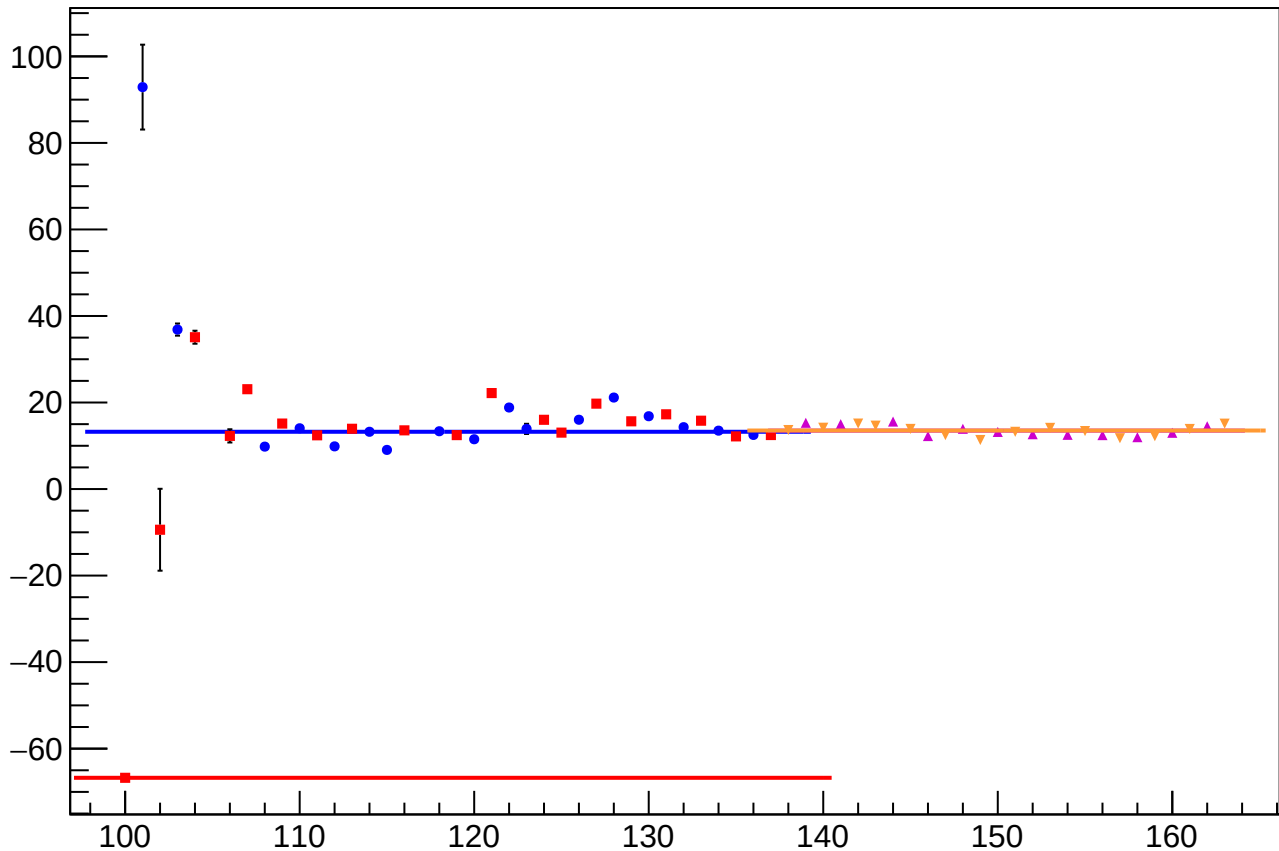
All: 43.272+/-0.000  $\chi^2/\text{NDF}$ : 1144517497260

- sign 1036.068+/-0.000  $\chi^2/\text{NDF}$ : 11714093.2/30

# dit\_atr1\_11X12X\_slope vs Slug



# dit\_atr1\_4aY\_slope vs Slug



Right In: 13.238+/-0.000  $\chi^2/\text{NDF}$ : 5756.1/16

Left Out: 13.528+/-0.015  $\chi^2/\text{NDF}$ : 5292.1/13

Right Out: -66.739+/-0.000  $\chi^2/\text{NDF}$ : 3023648.4/18

Left In: 13.501+/-0.016  $\chi^2/\text{NDF}$ : 5051.8/11

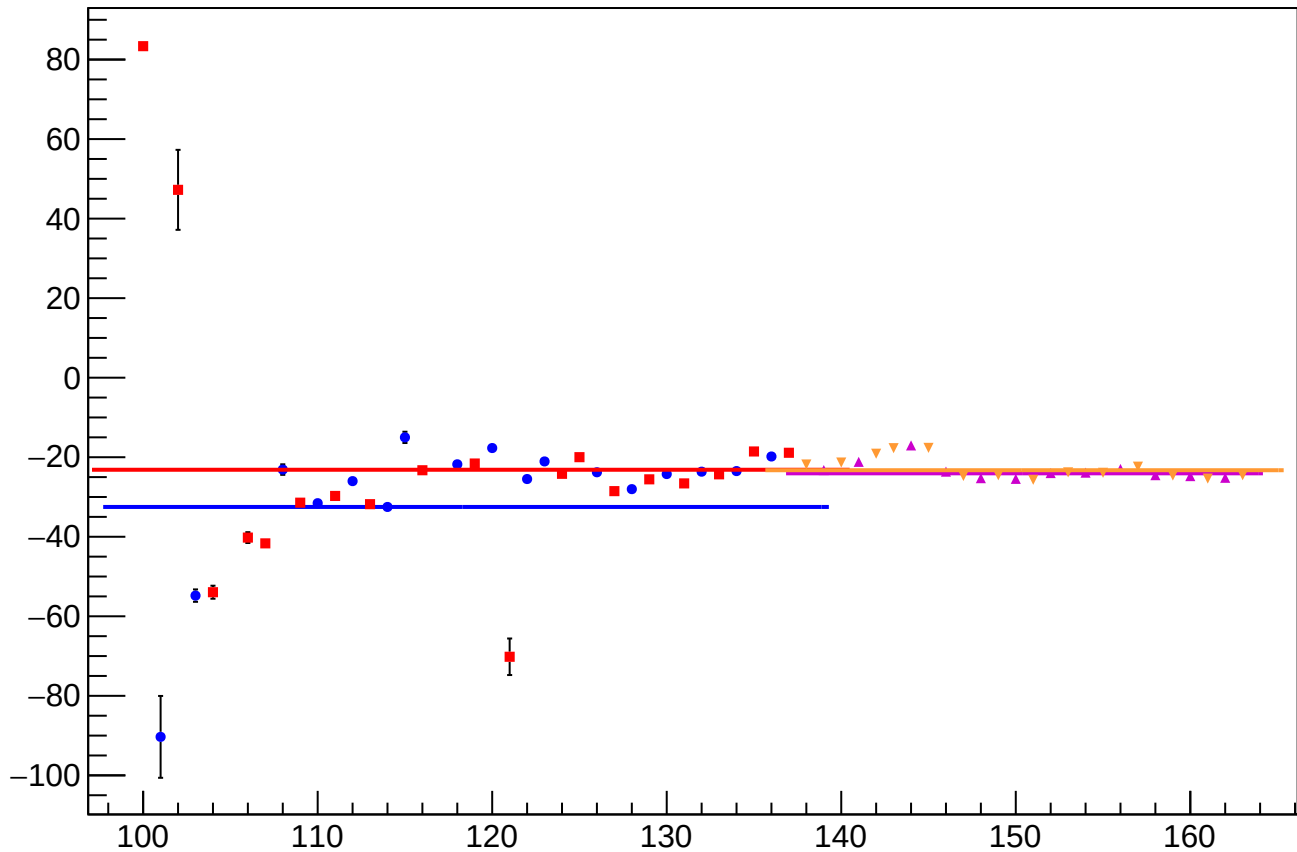
+ sign 13.238+/-0.000  $\chi^2/\text{NDF}$ : 11410.6/30

All: 12.562+/-0.000  $\chi^2/\text{NDF}$ : 1884310027651

- sign -66.739+/-0.000  $\chi^2/\text{NDF}$ : 27886355.5/30



# dit\_atr1\_4eY\_slope vs Slug



Right In:  $-32.504 \pm 0.000$   $\chi^2/\text{NDF}$ : 74187.4/16

Left Out:  $-23.269 \pm 0.021$   $\chi^2/\text{NDF}$ : 12545.4/13

Right Out:  $-23.151 \pm 0.048$   $\chi^2/\text{NDF}$ : 90749.4/18

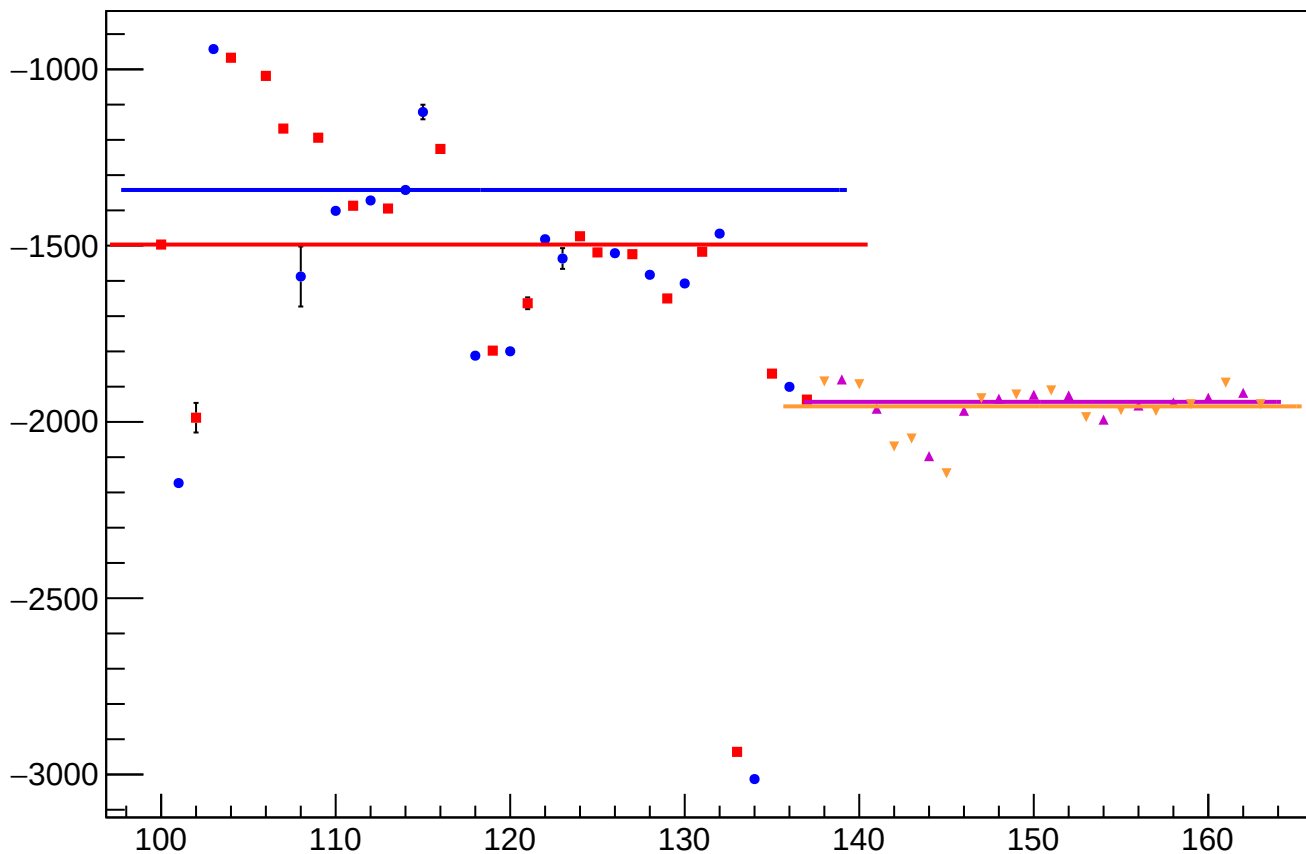
Left In:  $-24.049 \pm 0.020$   $\chi^2/\text{NDF}$ : 6257.1/11

+ sign  $-32.504 \pm 0.000$   $\chi^2/\text{NDF}$ : 274823.7/30

All:  $-32.504 \pm 0.000$   $\chi^2/\text{NDF}$ : 597188.5/61

- sign  $-23.919 \pm 0.018$   $\chi^2/\text{NDF}$ : 97310.7/30

# dit\_atr2\_4aX\_slope vs Slug



Right In: -1342.107 $\pm$ 0.000  $\chi^2$ /NDF: 370901.4/16

Left Out: -1955.887 $\pm$ 0.429  $\chi^2$ /NDF:15090.8/13

Right Out: -1496.932 $\pm$ 0.000  $\chi^2$ /NDF: 504712.5/18

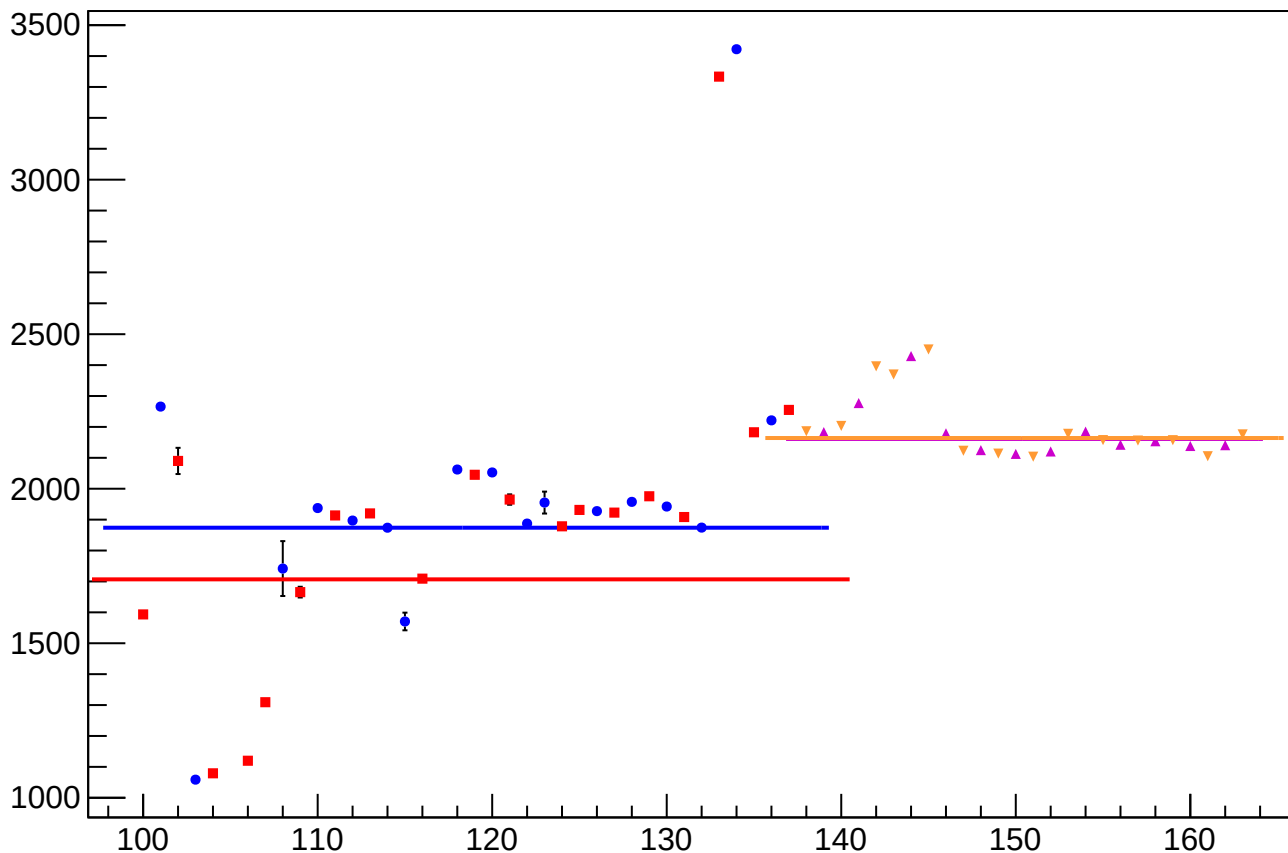
Left In: -1943.100 $\pm$ 0.347  $\chi^2$ /NDF:16044.3/11

+ sign -1342.107 $\pm$ 0.000  $\chi^2$ /NDF: 2433938.3/30

All: -1396.751 $\pm$ 0.000  $\chi^2$ /NDF: 1800086126

- sign -1496.932 $\pm$ 0.000  $\chi^2$ /NDF: 2172471.6/30

# dit\_atr2\_4eX\_slope vs Slug



Right In: 1873.852 $\pm$ 0.000  $\chi^2$ /NDF: 201563.9/16

Left Out: 2164.069 $\pm$ 0.432  $\chi^2$ /NDF: 28047.2/13

Right Out: 1706.739 $\pm$ 0.302  $\chi^2$ /NDF: 837936.9/18

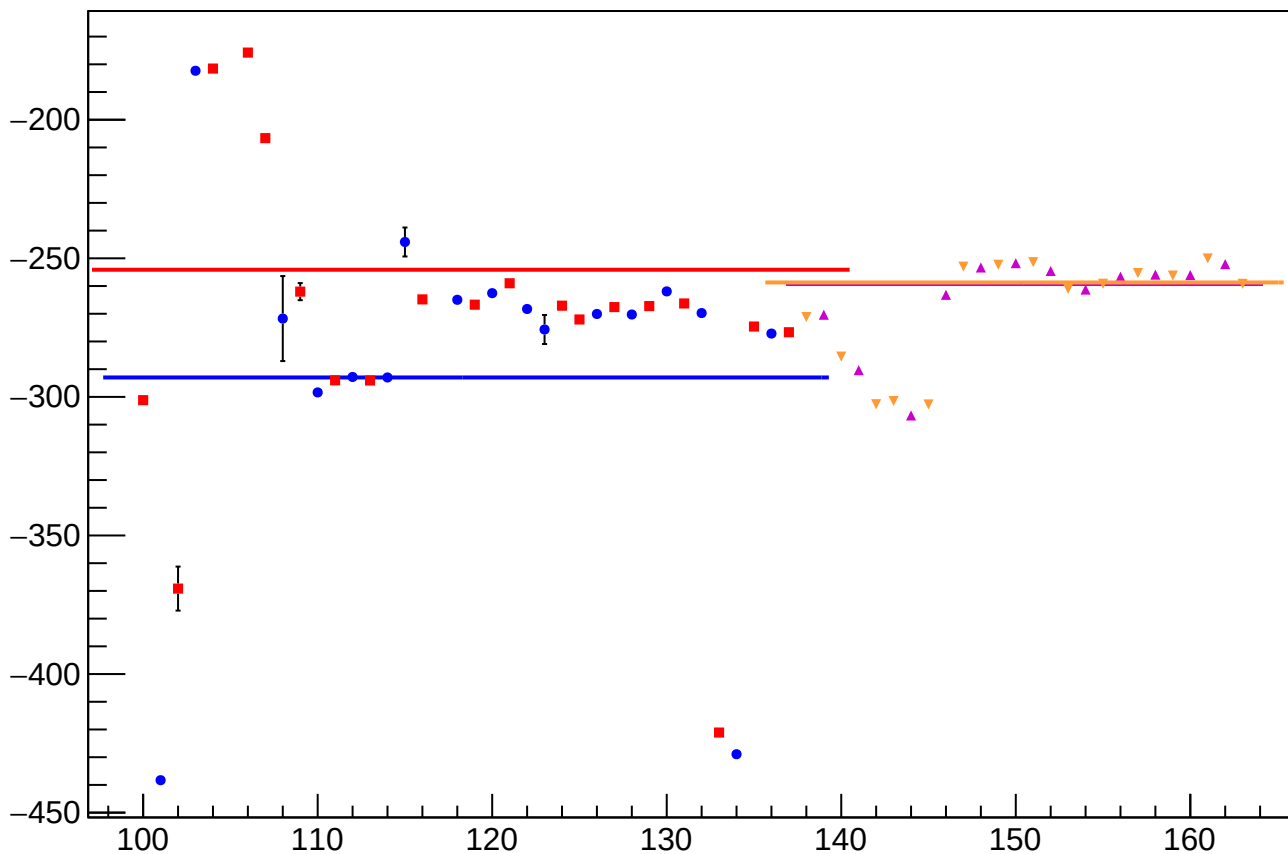
Left In: 2161.046 $\pm$ 0.348  $\chi^2$ /NDF: 36665.9/11

+ sign 1873.852 $\pm$ 0.000  $\chi^2$ /NDF: 681682.1/30

All: 1873.852 $\pm$ 0.000  $\chi^2$ /NDF: 2542810.8/63

- sign 1902.199 $\pm$ 0.228  $\chi^2$ /NDF: 1845705.2/30

# dit\_atr2\_11X12X\_slope vs Slug



Right In:  $-292.986 \pm 0.000$   $\chi^2/\text{NDF}$ : 1015592.4/16

Left Out:  $-258.706 \pm 0.024$   $\chi^2/\text{NDF}$ : 204727.7/13

Right Out:  $-254.119 \pm 0.059$   $\chi^2/\text{NDF}$ : 502658.5/18

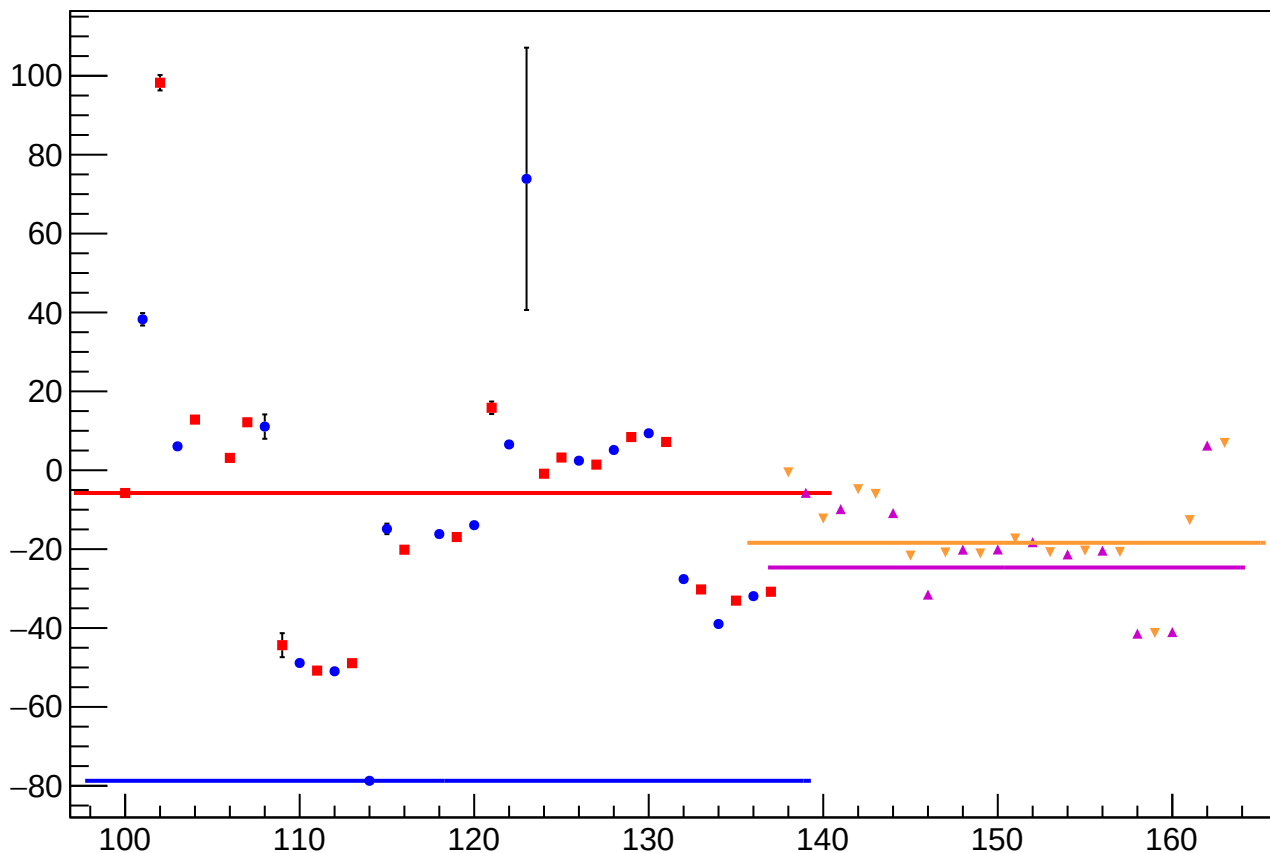
Left In:  $-259.277 \pm 0.021$   $\chi^2/\text{NDF}$ : 247520.4/11

+ sign  $-292.986 \pm 0.000$   $\chi^2/\text{NDF}$ : 3238936.3/30

All:  $-292.986 \pm 0.000$   $\chi^2/\text{NDF}$ : 7094780.5/61

- sign  $-258.715 \pm 0.019$   $\chi^2/\text{NDF}$ : 756990.2/30

# dit\_atr2\_4aY\_slope vs Slug



Right In:  $-78.728 \pm 0.000$   $\chi^2/\text{NDF}$ : 1399088.3/16

Left Out:  $-18.392 \pm 0.024$   $\chi^2/\text{NDF}$ : 432048.7/13

Right Out:  $-5.769 \pm 0.000$   $\chi^2/\text{NDF}$ : 111570.1/18

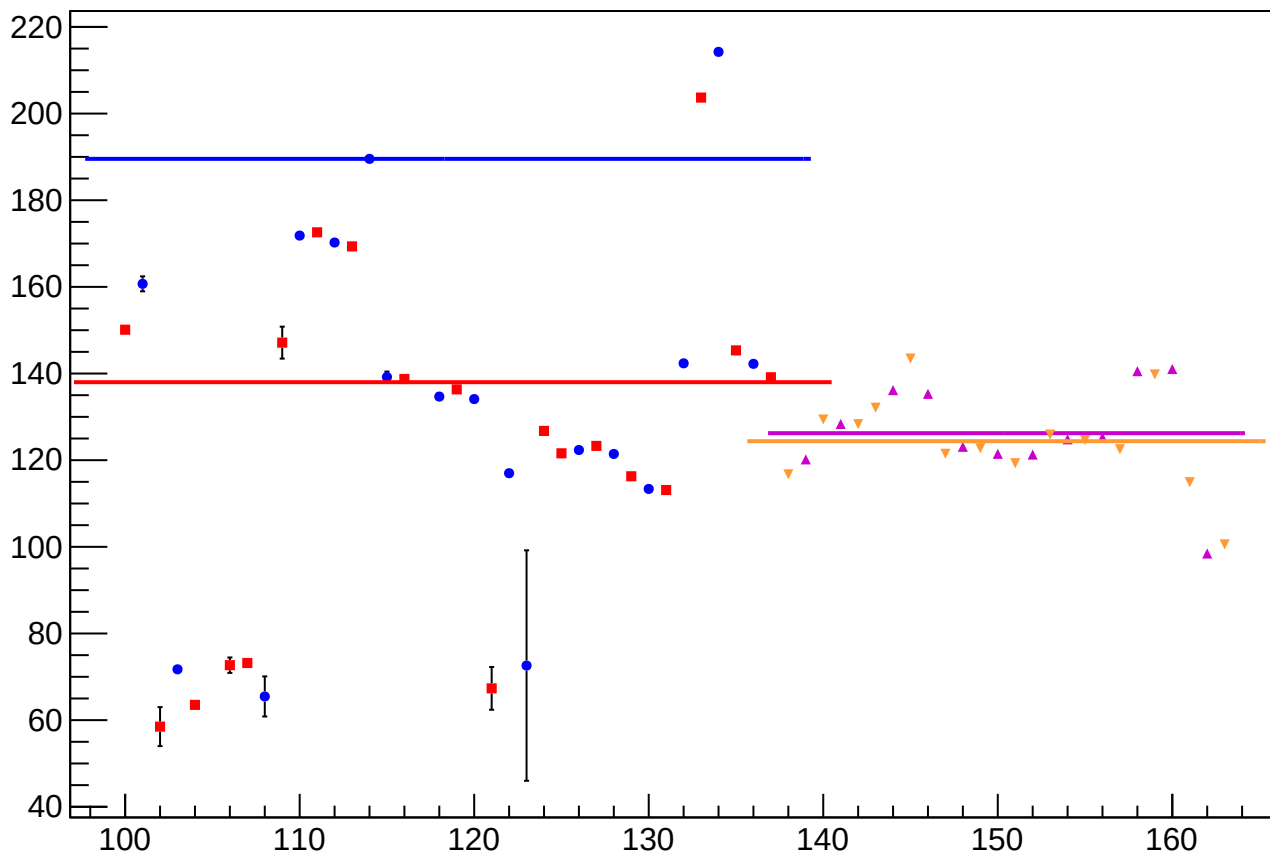
Left In:  $-24.654 \pm 0.021$   $\chi^2/\text{NDF}$ : 350748.4/11

+ sign  $-78.728 \pm 0.000$   $\chi^2/\text{NDF}$ : 8366311.6/30

All:  $-6.288 \pm 0.000$   $\chi^2/\text{NDF}$ : 2878797679293

- sign  $-5.769 \pm 0.000$   $\chi^2/\text{NDF}$ : 1304271.5/30

# dit\_atr2\_4eY\_slope vs Slug



Right In: 189.551 $\pm$ 0.000  $\chi^2$ /NDF: 927391.8/16

Left Out: 124.378 $\pm$ 0.029  $\chi^2$ /NDF: 97611.4/13

Right Out: 138.002 $\pm$ 0.059  $\chi^2$ /NDF: 117357.8/18

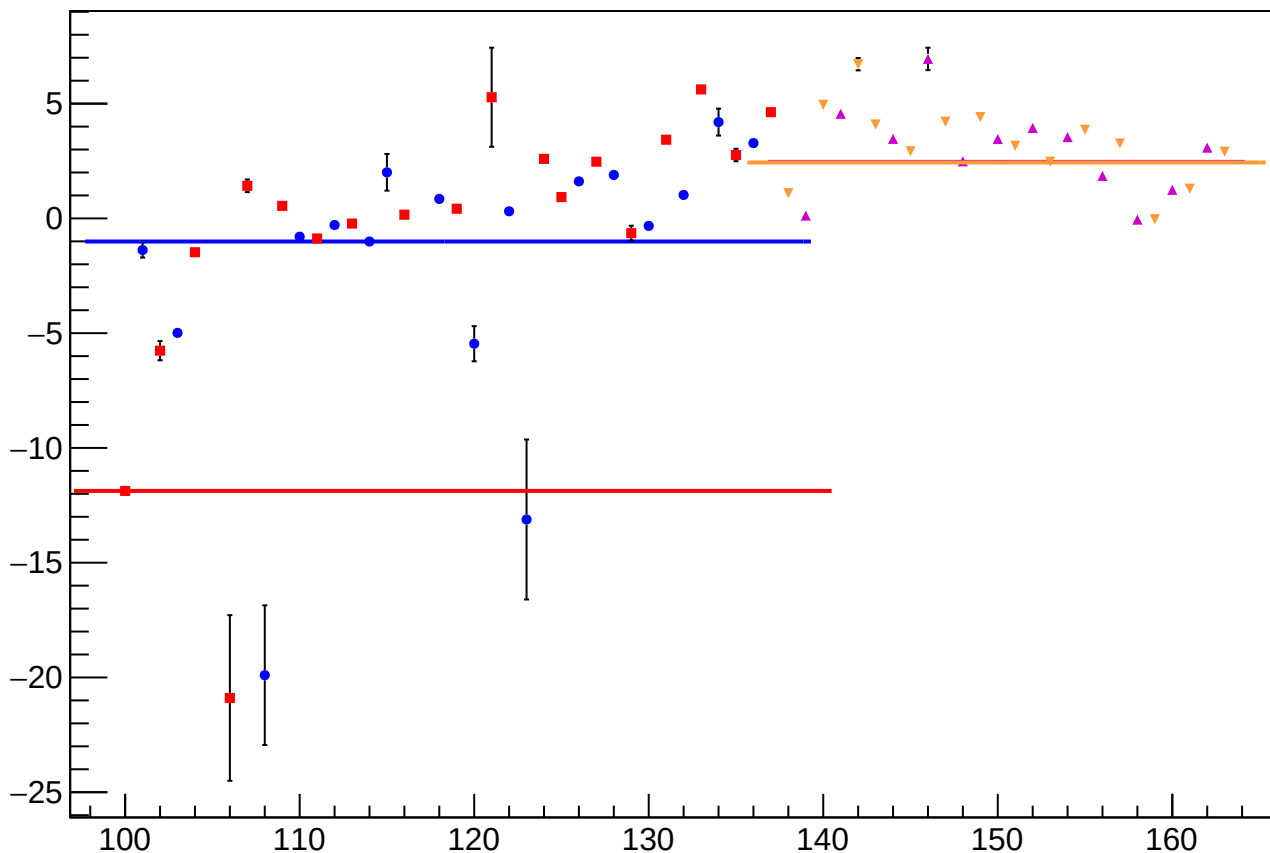
Left In: 126.234 $\pm$ 0.030  $\chi^2$ /NDF: 126312.2/11

+ sign 189.551 $\pm$ 0.000  $\chi^2$ /NDF: 6009472.3/30

All: 189.551 $\pm$ 0.000  $\chi^2$ /NDF: 11618404.4/63

- sign 128.585 $\pm$ 0.026  $\chi^2$ /NDF: 275434.6/30

# dit\_sam1\_4aX\_slope vs Slug



Right In:  $-1.007 \pm 0.000$   $\chi^2/\text{NDF}$ : 7057.7/16

Left Out:  $2.436 \pm 0.026$   $\chi^2/\text{NDF}$ : 4886.9/13

Right Out:  $-11.872 \pm 0.000$   $\chi^2/\text{NDF}$ : 503632.2/18

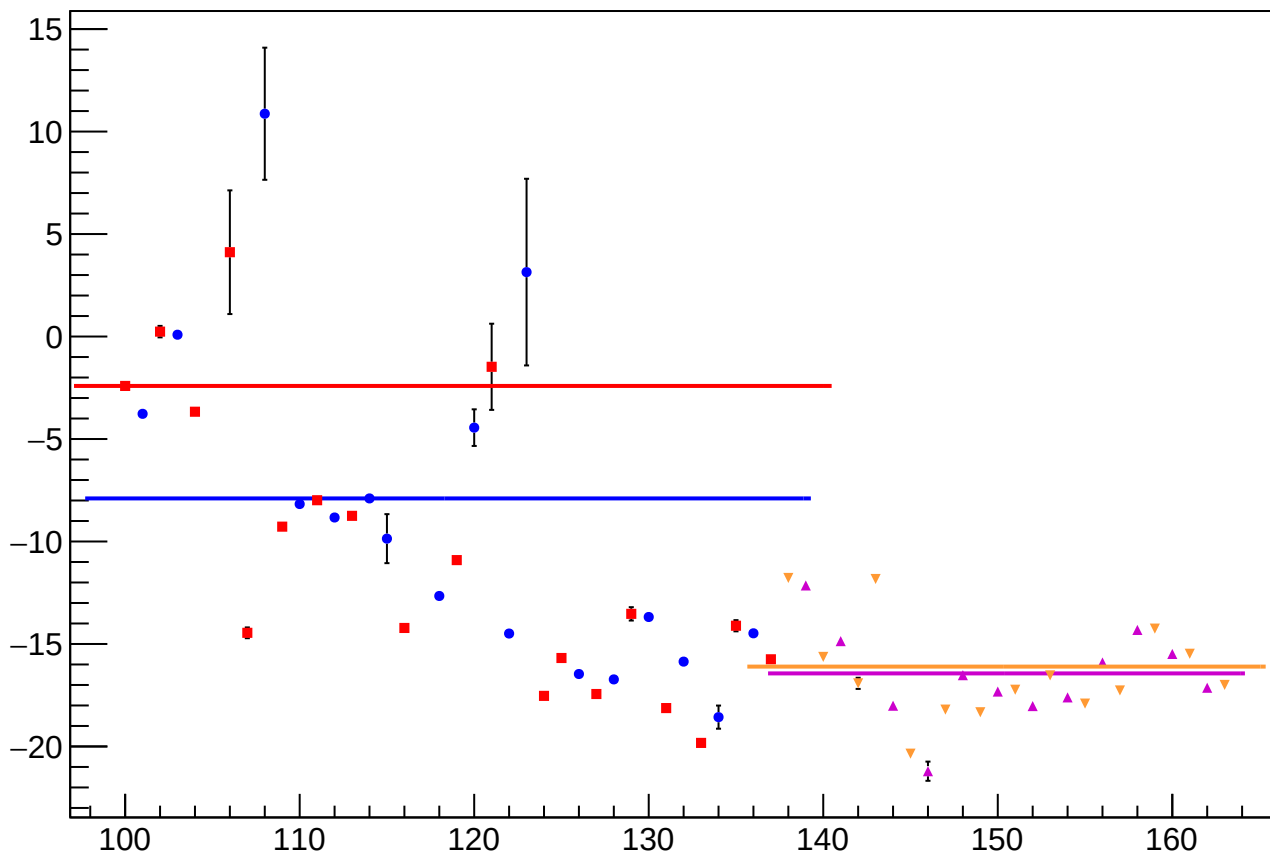
Left In:  $2.462 \pm 0.020$   $\chi^2/\text{NDF}$ : 6168.5/11

+ sign  $-1.007 \pm 0.000$   $\chi^2/\text{NDF}$ : 29515.1/30

All:  $-1.365 \pm 0.000$   $\chi^2/\text{NDF}$ : 2170760676638

- sign  $-11.872 \pm 0.000$   $\chi^2/\text{NDF}$ : 1048343.5/30

# dit\_sam1\_4eX\_slope vs Slug



Right In:  $-7.899 \pm 0.000$   $\chi^2/\text{NDF}$ : 39443.5/16

Left Out:  $-16.104 \pm 0.026$   $\chi^2/\text{NDF}$ : 6080.9/13

Right Out:  $-2.410 \pm 0.000$   $\chi^2/\text{NDF}$ : 203043.8/18

Left In:  $-16.436 \pm 0.021$   $\chi^2/\text{NDF}$ : 5098.2/11

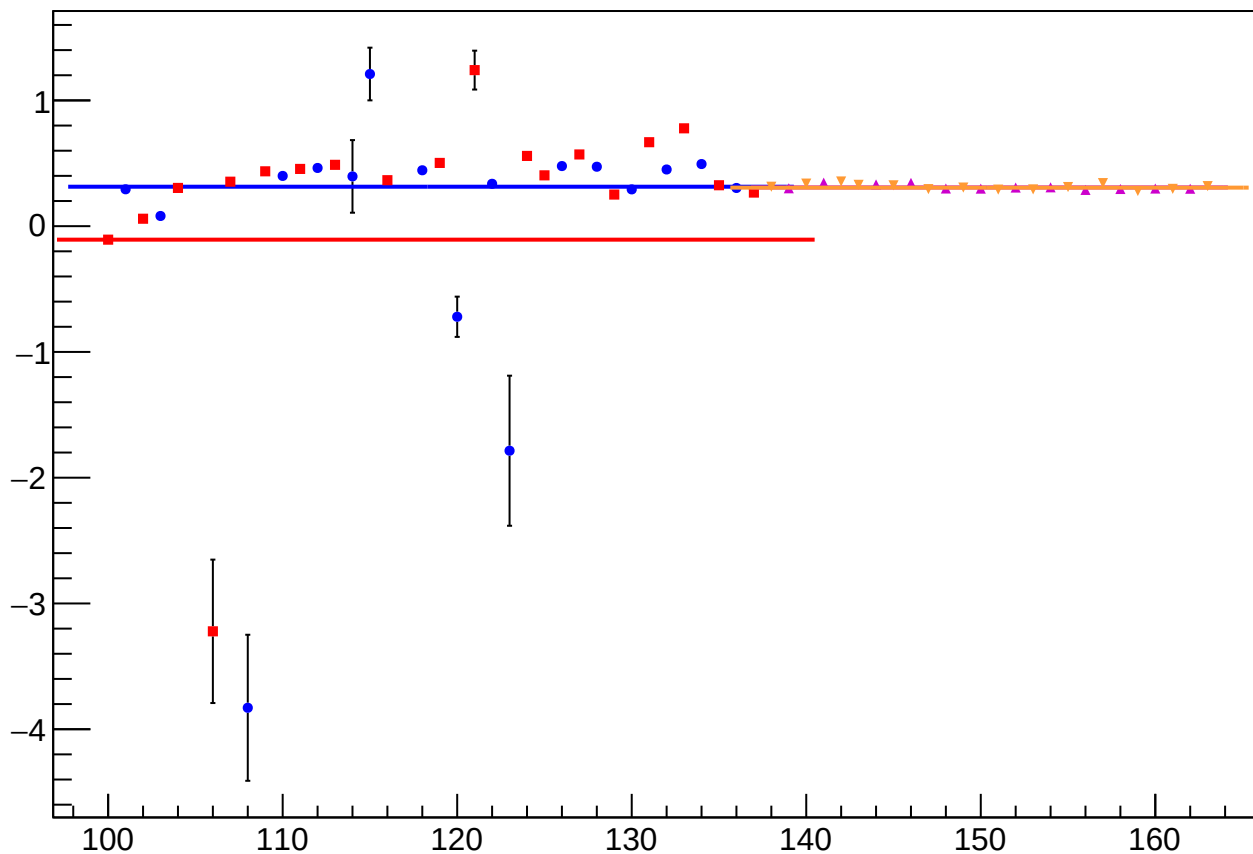
+ sign  $-7.899 \pm 0.000$   $\chi^2/\text{NDF}$ : 146768.3/30

All:  $-4.135 \pm 0.000$   $\chi^2/\text{NDF}$ : 2879850560728

- sign  $-2.410 \pm 0.000$   $\chi^2/\text{NDF}$ : 675454.7/30



# dit\_sam1\_11X12X\_slope vs Slug



Right In:  $0.314 \pm 0.001$   $\chi^2/\text{NDF}$ : 2748.0/16

Left Out:  $0.306 \pm 0.000$   $\chi^2/\text{NDF}$ : 3284.0/13

Right Out:  $-0.107 \pm 0.000$   $\chi^2/\text{NDF}$ : 219932.8/18

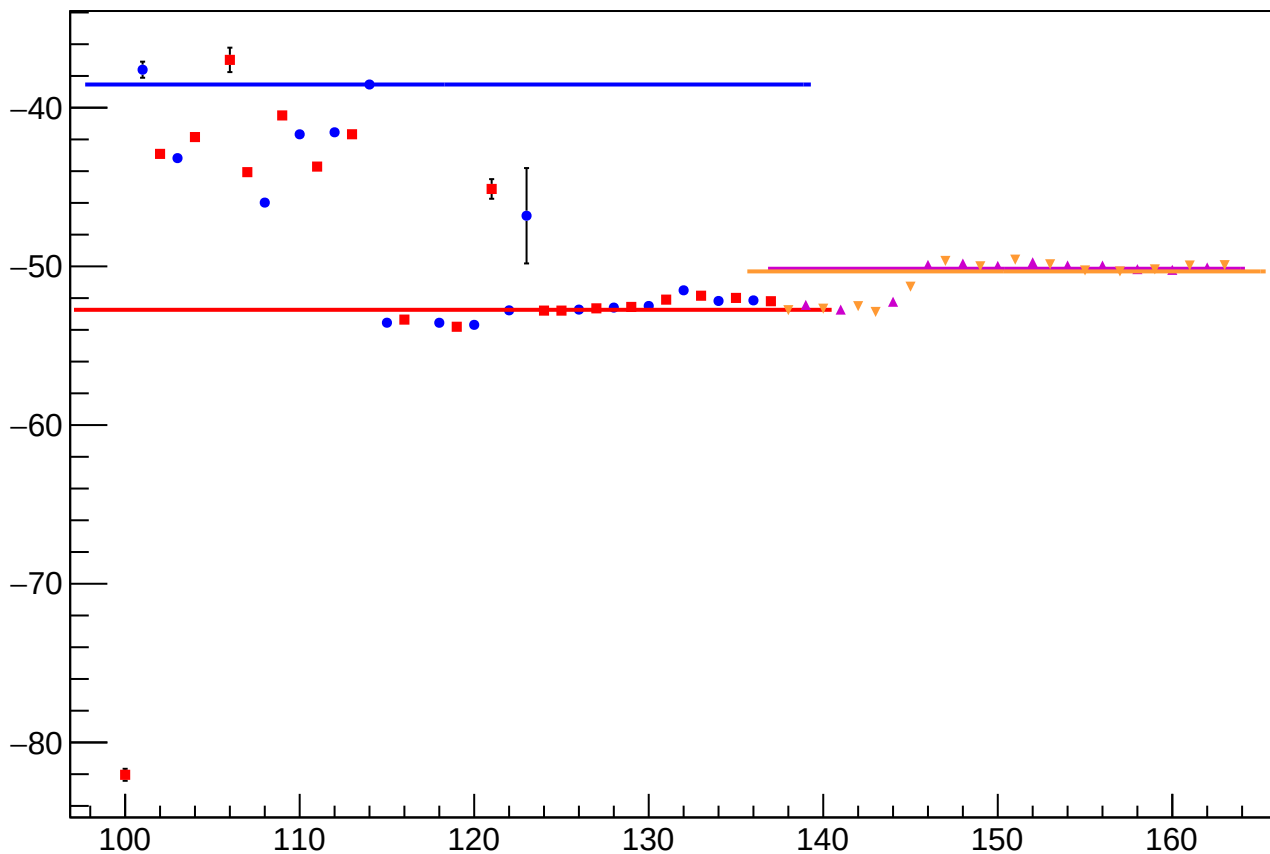
Left In:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}$ : 2156.2/11

+ sign  $0.307 \pm 0.000$   $\chi^2/\text{NDF}$ : 6082.7/30

All:  $-0.107 \pm 0.000$   $\chi^2/\text{NDF}$ : 3857003.7/61

- sign  $-0.107 \pm 0.000$   $\chi^2/\text{NDF}$ : 2032068.4/30

# dit\_sam1\_4aY\_slope vs Slug



Right In:  $-38.539 \pm 0.000$   $\chi^2/\text{NDF}$ : 14950854.6/16

Left Out:  $-50.317 \pm 0.002$   $\chi^2/\text{NDF}$ : 250905.2/13

Right Out:  $-52.737 \pm 0.002$   $\chi^2/\text{NDF}$ : 87430.2/18

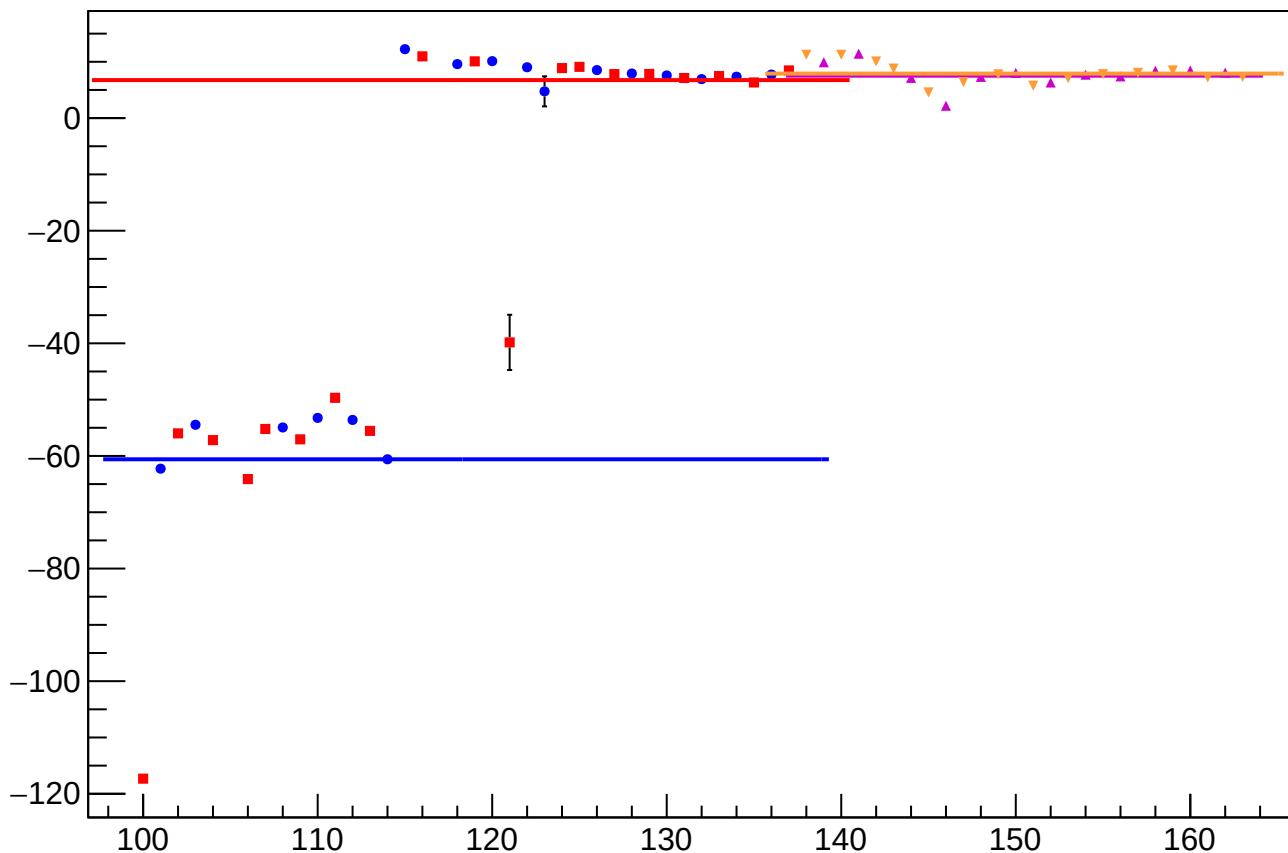
Left In:  $-50.149 \pm 0.002$   $\chi^2/\text{NDF}$ : 154184.7/11

+ sign  $-38.539 \pm 0.000$   $\chi^2/\text{NDF}$ : 54443273.1/30

All:  $-38.539 \pm 0.000$   $\chi^2/\text{NDF}$ : 167336885.1/6

- sign  $-51.202 \pm 0.001$   $\chi^2/\text{NDF}$ : 1365460.6/30

# dit\_sam1\_4eY\_slope vs Slug



Right In:  $-60.594 \pm 0.000$   $\chi^2/\text{NDF}$ : 26122838.1/16

Left Out:  $7.904 \pm 0.005$   $\chi^2/\text{NDF}$ : 75374.1/13

Right Out:  $6.748 \pm 0.011$   $\chi^2/\text{NDF}$ : 1266598.3/18

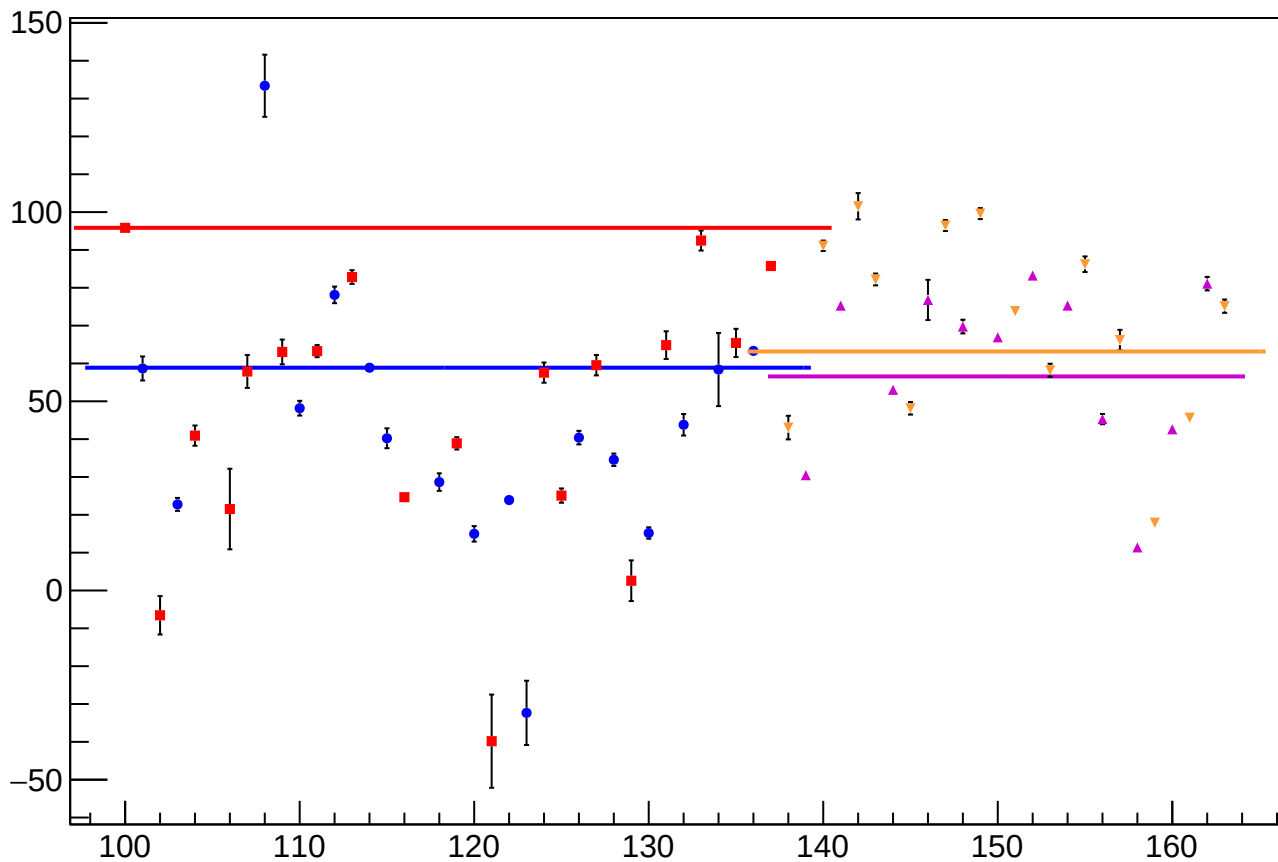
Left In:  $7.533 \pm 0.004$   $\chi^2/\text{NDF}$ : 114713.7/11

+ sign  $-60.594 \pm 0.000$   $\chi^2/\text{NDF}$ : 252553170.5/30

All:  $-60.594 \pm 0.000$   $\chi^2/\text{NDF}$ : 629606823.4/6

- sign  $7.453 \pm 0.004$   $\chi^2/\text{NDF}$ : 1385867.2/30

# dit\_sam2\_4aX\_slope vs Slug



Right In: 58.880 $\pm$ 0.000  $\chi^2$ /NDF: 3814.7/16

Left Out: 63.163 $\pm$ 0.411  $\chi^2$ /NDF: 4913.7/13

Right Out: 95.846 $\pm$ 0.000  $\chi^2$ /NDF: 39385.0/18

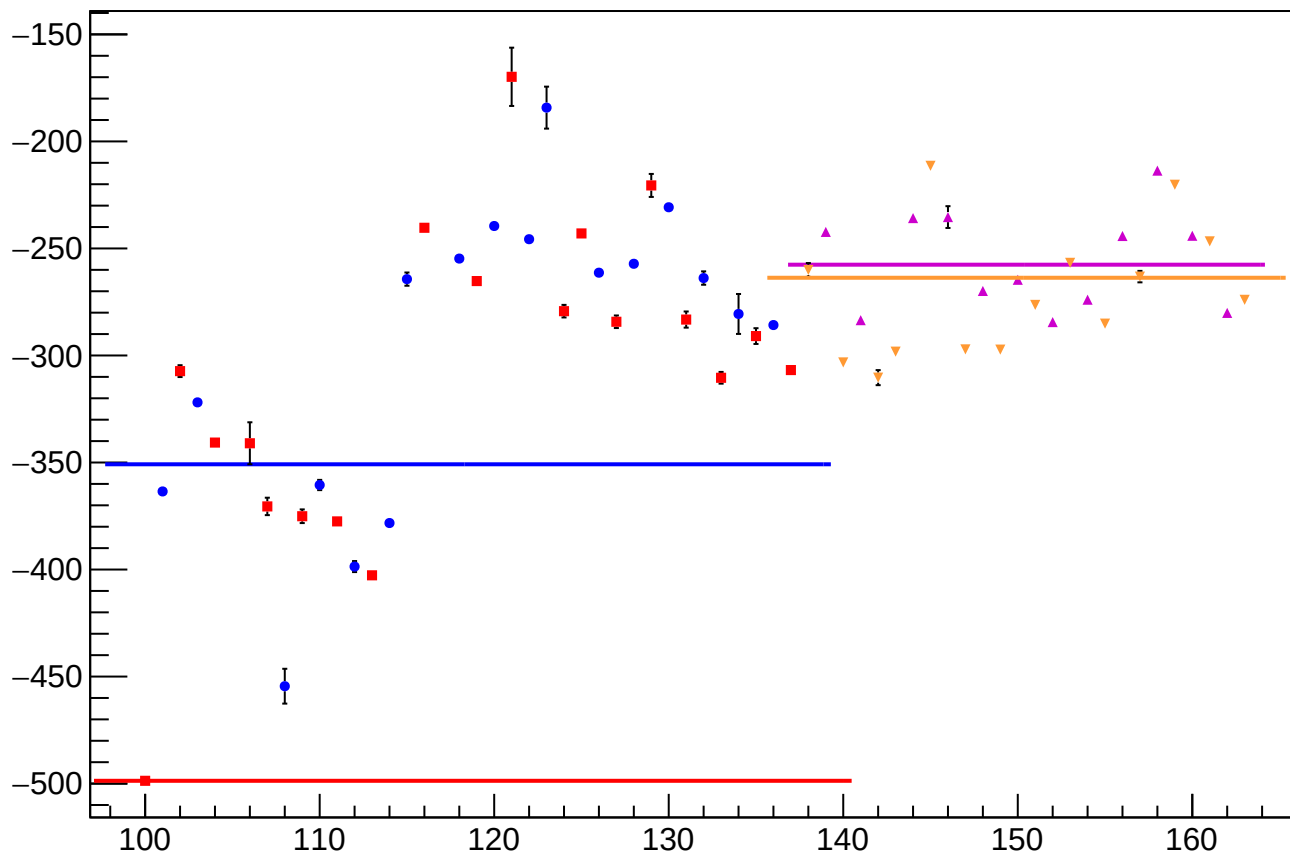
Left In: 56.570 $\pm$ 0.321  $\chi^2$ /NDF: 4768.9/11

+ sign 58.880 $\pm$ 0.000  $\chi^2$ /NDF: 8836.8/30

All: 60.098 $\pm$ 0.000  $\chi^2$ /NDF: 981523394566

- sign 95.846 $\pm$ 0.000  $\chi^2$ /NDF: 59167.7/30

# dit\_sam2\_4eX\_slope vs Slug



Right In:  $-350.833 \pm 0.245$   $\chi^2/\text{NDF}$ : 41301.1/16

Left Out:  $-263.694 \pm 0.406$   $\chi^2/\text{NDF}$ : 6506.2/13

Right Out:  $-498.692 \pm 0.000$   $\chi^2/\text{NDF}$ : 511870.8/18

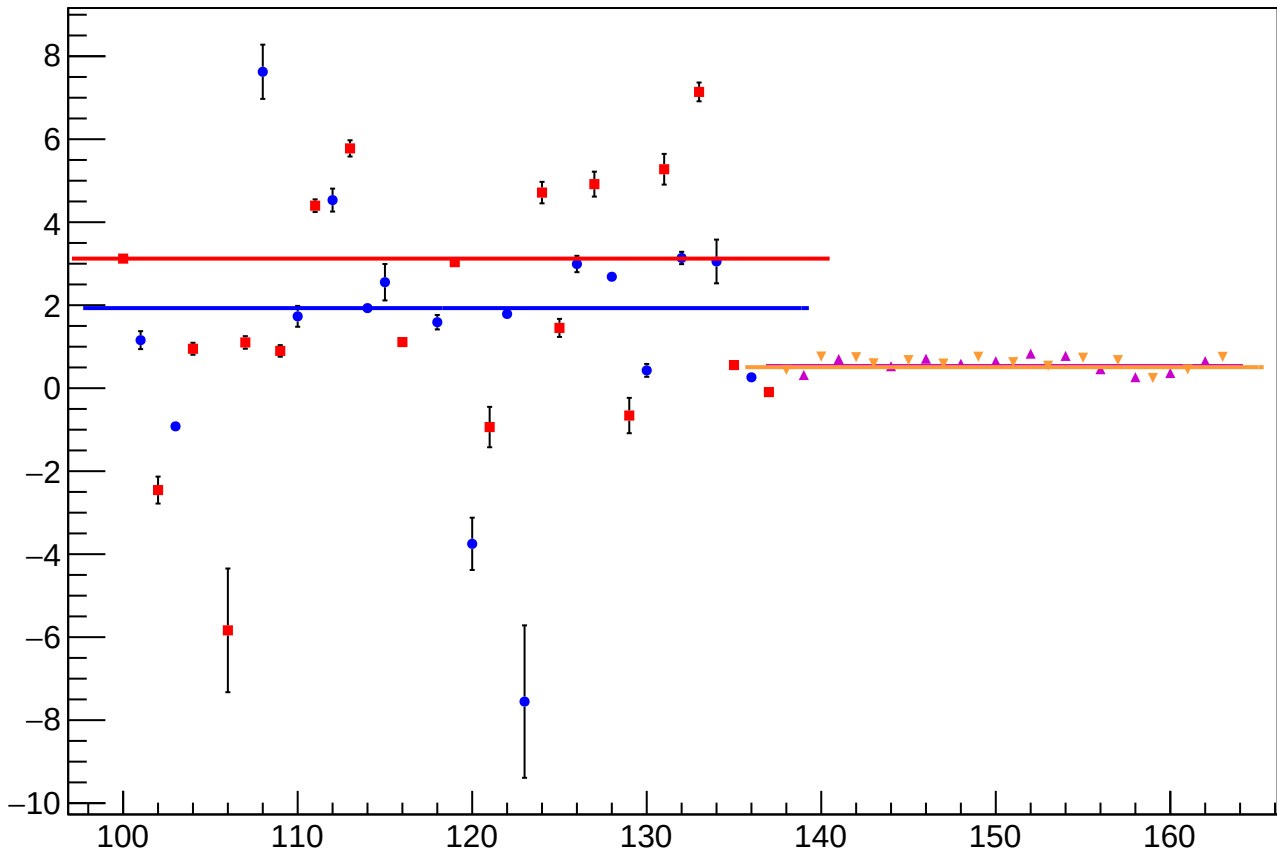
Left In:  $-257.588 \pm 0.324$   $\chi^2/\text{NDF}$ : 4338.7/11

+ sign  $-327.656 \pm 0.210$   $\chi^2/\text{NDF}$ : 81582.1/30

All:  $-498.692 \pm 0.000$   $\chi^2/\text{NDF}$ : 1817568.9/61

- sign  $-498.692 \pm 0.000$   $\chi^2/\text{NDF}$ : 1069502.9/30

# dit\_sam2\_11X12X\_slope vs Slug



Right In:  $1.930 \pm 0.000$   $\chi^2/\text{NDF}$ : 59970.9/16

Left Out:  $0.507 \pm 0.002$   $\chi^2/\text{NDF}$ : 7724.8/13

Right Out:  $3.123 \pm 0.000$   $\chi^2/\text{NDF}$ : 512565.5/18

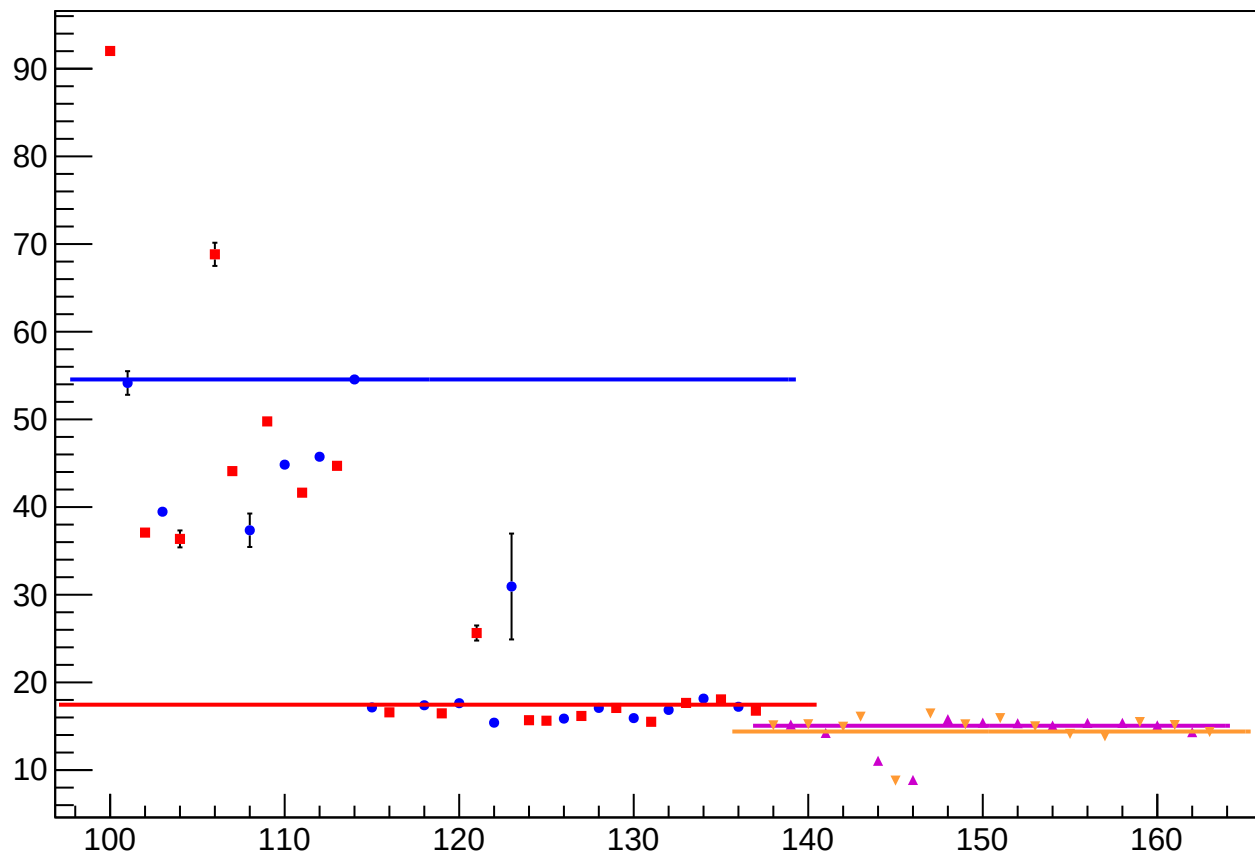
Left In:  $0.534 \pm 0.002$   $\chi^2/\text{NDF}$ : 11639.1/11

+ sign  $1.930 \pm 0.000$   $\chi^2/\text{NDF}$ : 427257.4/30

All:  $2.073 \pm 0.000$   $\chi^2/\text{NDF}$ : 3809953457808

- sign  $3.123 \pm 0.000$   $\chi^2/\text{NDF}$ : 2161916.7/30

# dit\_sam2\_4aY\_slope vs Slug



Right In: 54.556+/-0.000  $\chi^2/\text{NDF}$ : 7238433.0/16

Left Out: 14.398+/-0.008  $\chi^2/\text{NDF}$ : 82107.3/13

Right Out: 17.458+/-0.018  $\chi^2/\text{NDF}$ : 99308.5/18

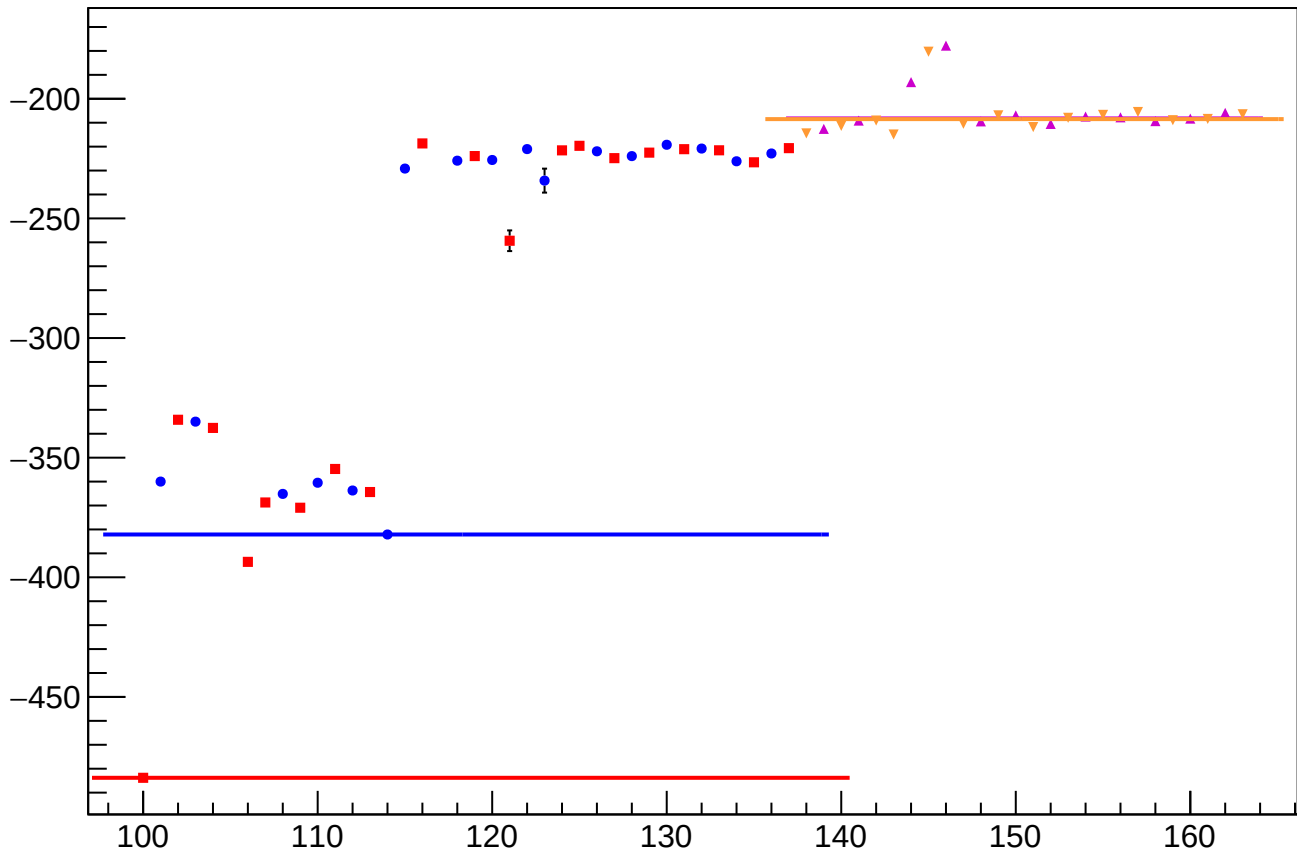
Left In: 15.057+/-0.008  $\chi^2/\text{NDF}$ : 8298.7/11

+ sign 54.556+/-0.000  $\chi^2/\text{NDF}$ : 31863460.0/30

All: 54.556+/-0.000  $\chi^2/\text{NDF}$ : 59415559.9/61

- sign 15.457+/-0.007  $\chi^2/\text{NDF}$ : 121982.6/30

# dit\_sam2\_4eY\_slope vs Slug



Right In: -382.108+/-0.000  $\chi^2/\text{NDF}$ : 18398024.3/16

Left Out: -208.501+/-0.018  $\chi^2/\text{NDF}$ : 60858.9/13

+ sign -382.108+/-0.000  $\chi^2/\text{NDF}$ : 109614262.3/30

Right Out: -483.800+/-0.000  $\chi^2/\text{NDF}$ : 24338683.6/18

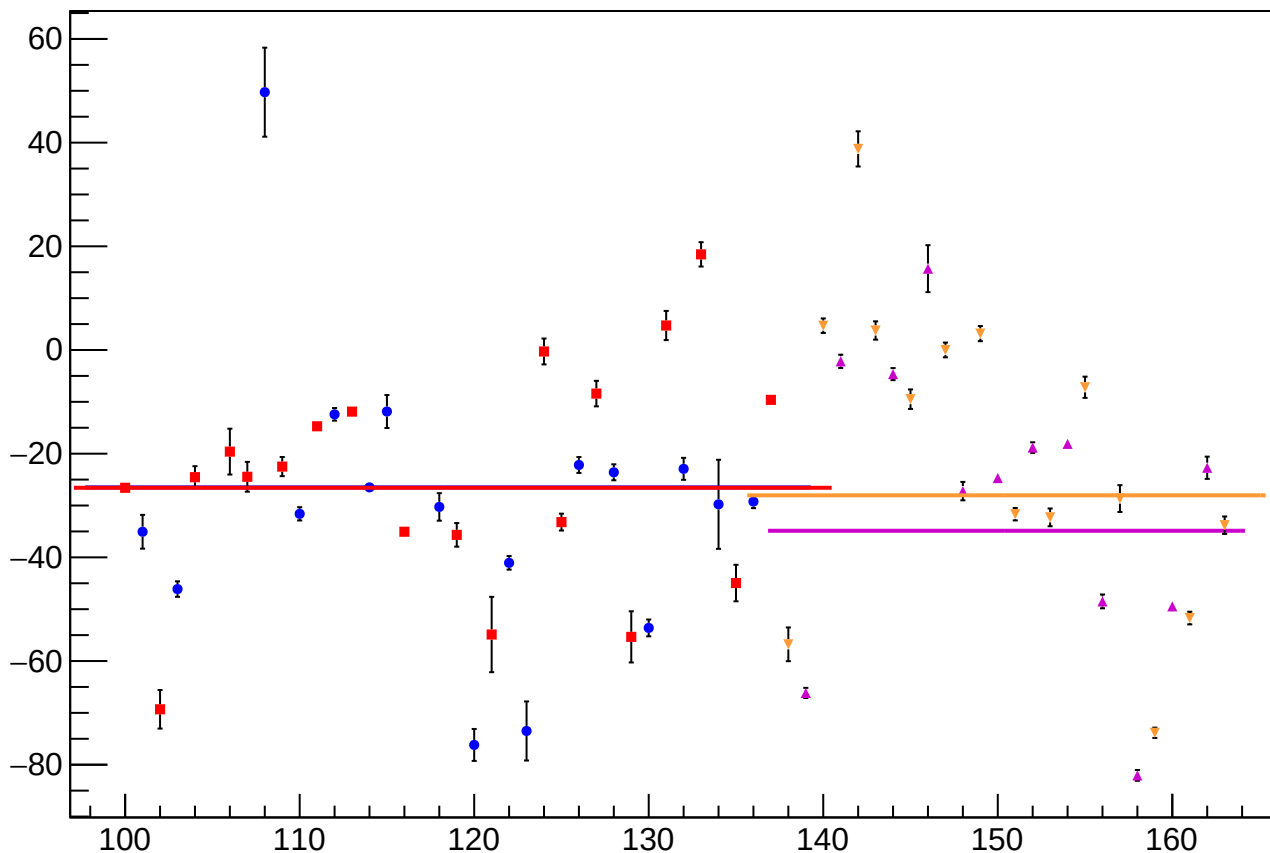
All: -417.999+/-0.000  $\chi^2/\text{NDF}$ : 12425488813

- sign -483.800+/-0.000  $\chi^2/\text{NDF}$ : 260882107.5/30

Left In: -208.204+/-0.018  $\chi^2/\text{NDF}$ : 15260.2/11



# dit\_sam3\_4aX\_slope vs Slug



Right In:  $-26.504 \pm 0.000$   $\chi^2/\text{NDF}: 1180.7/16$

Left Out:  $-28.035 \pm 0.419$   $\chi^2/\text{NDF}: 4904.4/13$

Right Out:  $-26.577 \pm 0.000$   $\chi^2/\text{NDF}: 2640.9/18$

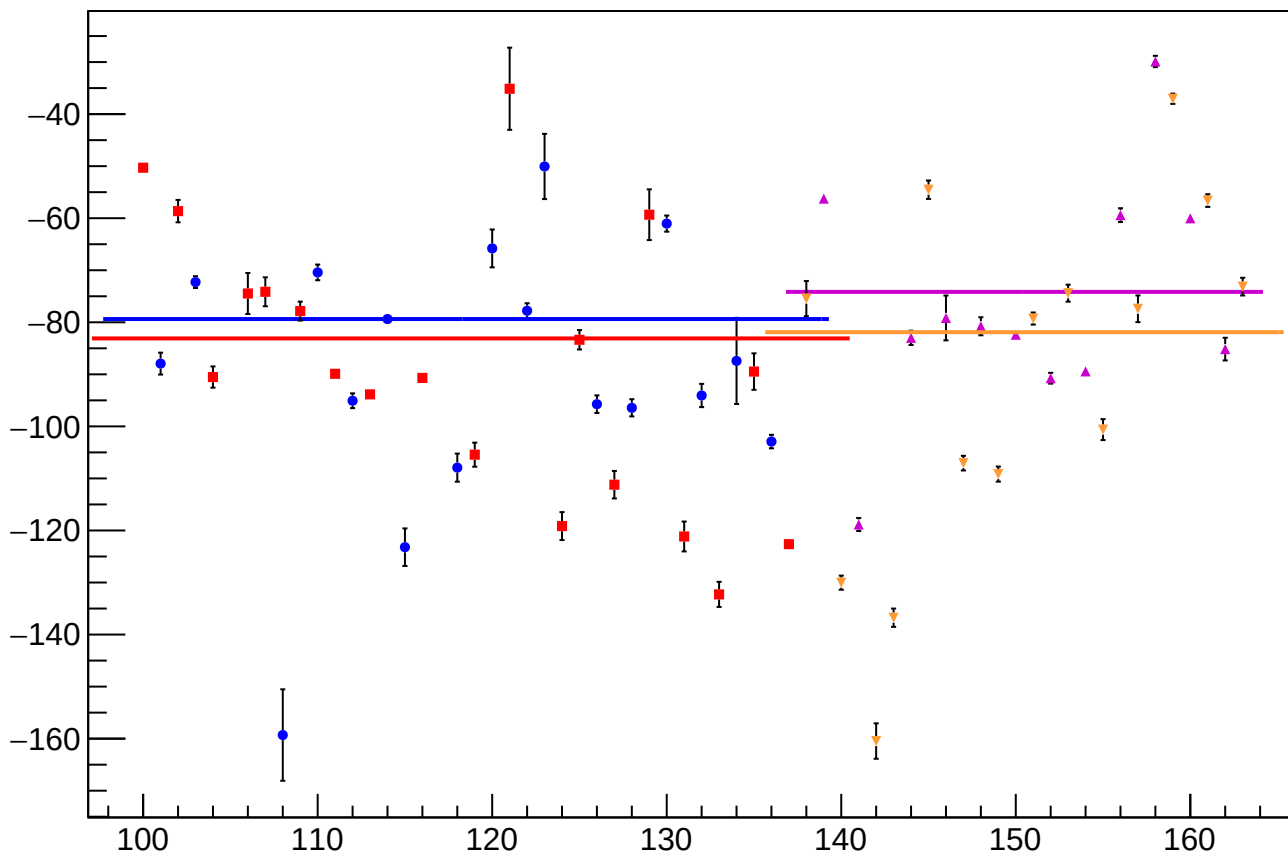
Left In:  $-34.869 \pm 0.327$   $\chi^2/\text{NDF}: 5648.8/11$

+ sign  $-26.504 \pm 0.000$   $\chi^2/\text{NDF}: 6098.4/30$

All:  $-26.530 \pm 0.000$   $\chi^2/\text{NDF}: 412159279654$

- sign  $-26.577 \pm 0.000$   $\chi^2/\text{NDF}: 8932.1/30$

# dit\_sam3\_4eX\_slope vs Slug



Right In:  $-79.376 \pm 0.000$   $\chi^2/\text{NDF}: 1304.6/16$

Left Out:  $-81.902 \pm 0.412$   $\chi^2/\text{NDF}: 6312.5/13$

Right Out:  $-83.099 \pm 0.178$   $\chi^2/\text{NDF}: 11915.8/18$

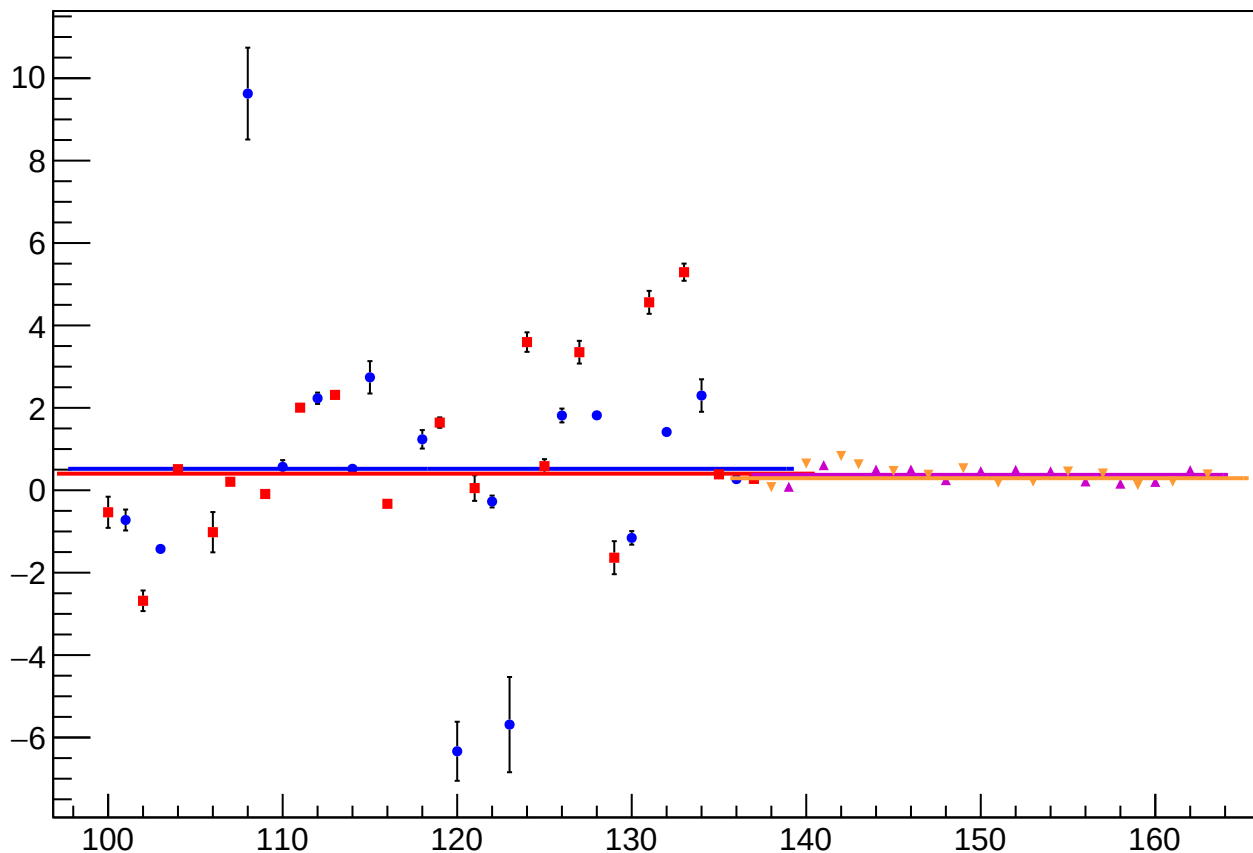
Left In:  $-74.158 \pm 0.324$   $\chi^2/\text{NDF}: 4439.0/11$

+ sign  $-79.376 \pm 0.000$   $\chi^2/\text{NDF}: 7654.8/30$

All:  $-79.376 \pm 0.000$   $\chi^2/\text{NDF}: 24706.0/61$

- sign  $-81.020 \pm 0.156$   $\chi^2/\text{NDF}: 16940.3/30$

# dit\_sam3\_11X12X\_slope vs Slug



Right In: 0.521+/-0.000  $\chi^2/\text{NDF}$ : 3370.8/16

Left Out: 0.292+/-0.002  $\chi^2/\text{NDF}$ : 5798.3/13

Right Out: 0.403+/-0.011  $\chi^2/\text{NDF}$ : 2727.5/18

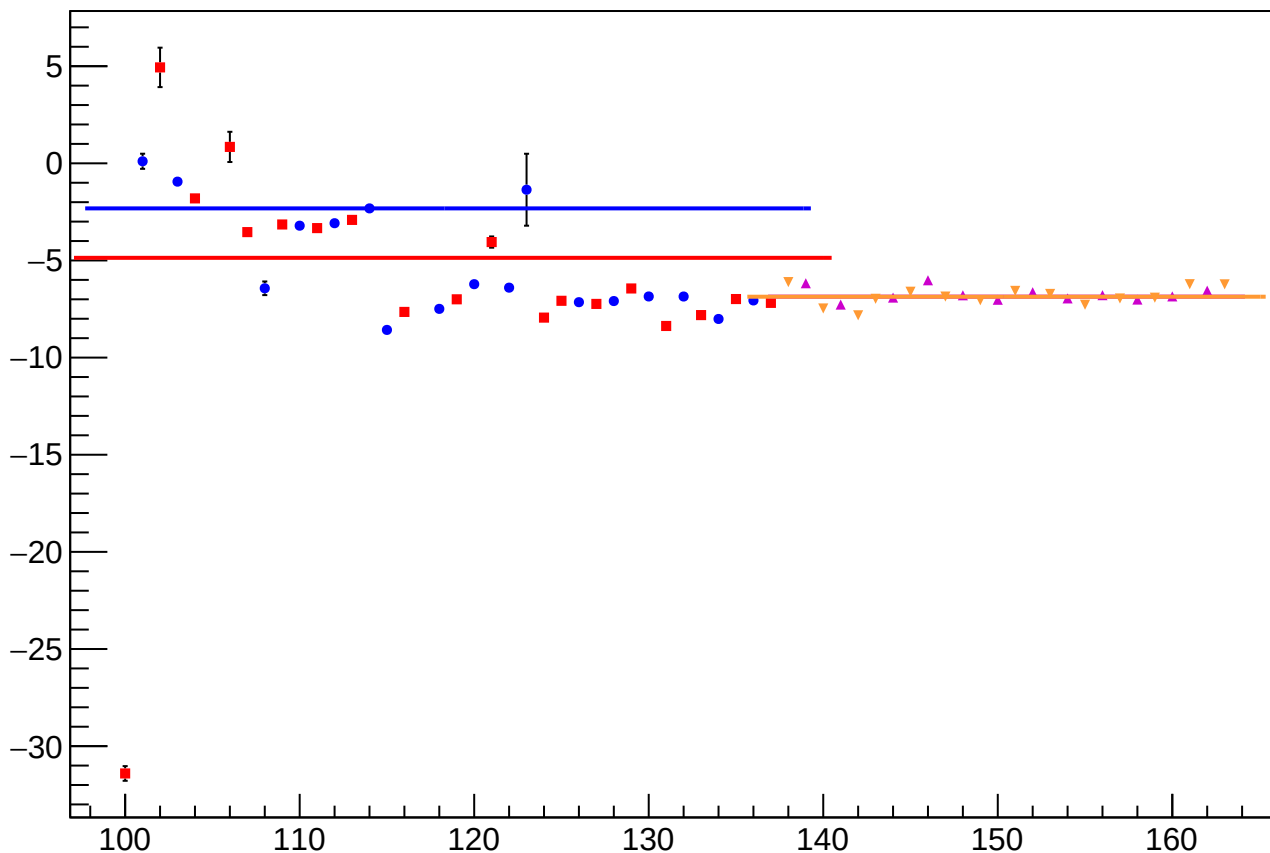
Left In: 0.374+/-0.002  $\chi^2/\text{NDF}$ : 8470.8/11

+ sign 0.521+/-0.000  $\chi^2/\text{NDF}$ : 17711.5/30

All: 0.521+/-0.000  $\chi^2/\text{NDF}$ : 34402.6/61

- sign 0.375+/-0.002  $\chi^2/\text{NDF}$ : 11205.3/30

# dit\_sam3\_4aY\_slope vs Slug



Right In:  $-2.320 \pm 0.000$   $\chi^2/\text{NDF}$ : 270771.9/16

Left Out:  $-6.866 \pm 0.003$   $\chi^2/\text{NDF}$ : 3934.5/13

Right Out:  $-4.864 \pm 0.010$   $\chi^2/\text{NDF}$ : 49380.5/18

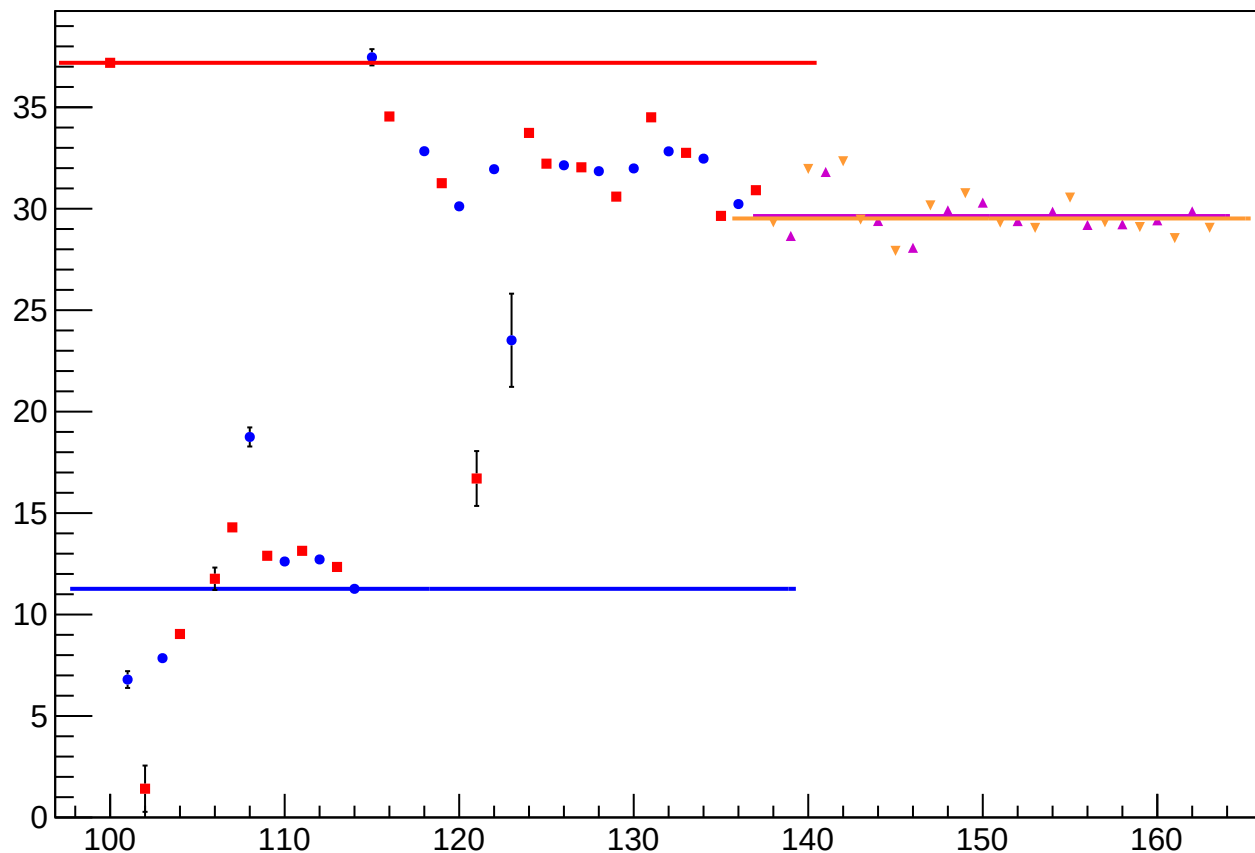
Left In:  $-6.863 \pm 0.003$   $\chi^2/\text{NDF}$ : 5172.0/11

+ sign  $-2.320 \pm 0.000$   $\chi^2/\text{NDF}$ : 2270218.9/30

All:  $-2.320 \pm 0.000$   $\chi^2/\text{NDF}$ : 4677674.2/61

- sign  $-6.707 \pm 0.003$   $\chi^2/\text{NDF}$ : 89236.9/30

# dit\_sam3\_4eY\_slope vs Slug



Right In: 11.268+/-0.000  $\chi^2/\text{NDF}$ : 958029.3/16

Left Out: 29.519+/-0.012  $\chi^2/\text{NDF}$ : 6452.6/13

Right Out: 37.191+/-0.000  $\chi^2/\text{NDF}$ : 1121929.1/18

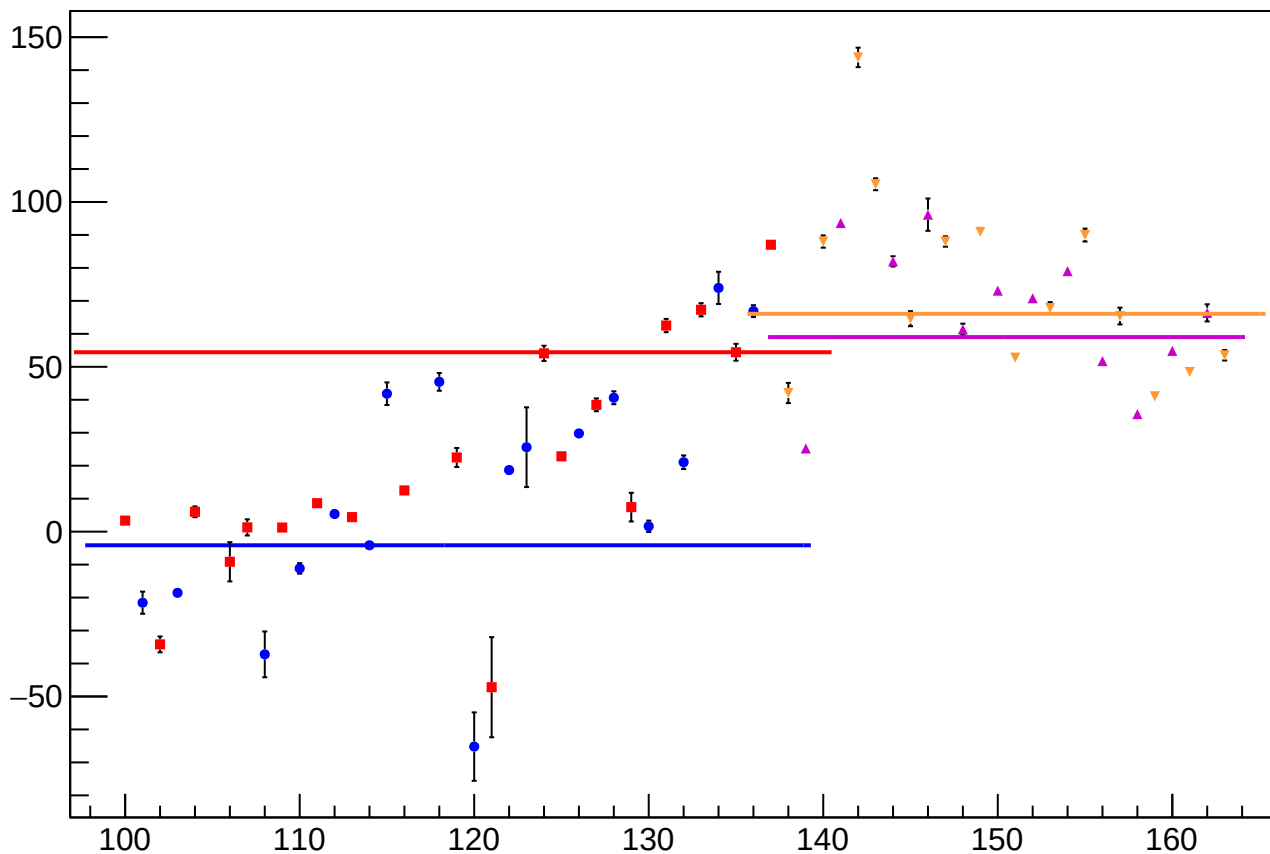
Left In: 29.640+/-0.010  $\chi^2/\text{NDF}$ : 3144.9/11

+ sign 11.268+/-0.000  $\chi^2/\text{NDF}$ : 3199843.0/30

All: 12.122+/-0.000  $\chi^2/\text{NDF}$ : 7723055694978

- sign 37.191+/-0.000  $\chi^2/\text{NDF}$ : 1671192.3/30

# dit\_sam4\_4aX\_slope vs Slug



Right In:  $-4.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 4654.2/16

Left Out:  $66.076 \pm 0.428$   $\chi^2/\text{NDF}$ : 3055.6/13

Right Out:  $54.427 \pm 0.170$   $\chi^2/\text{NDF}$ : 53998.7/18

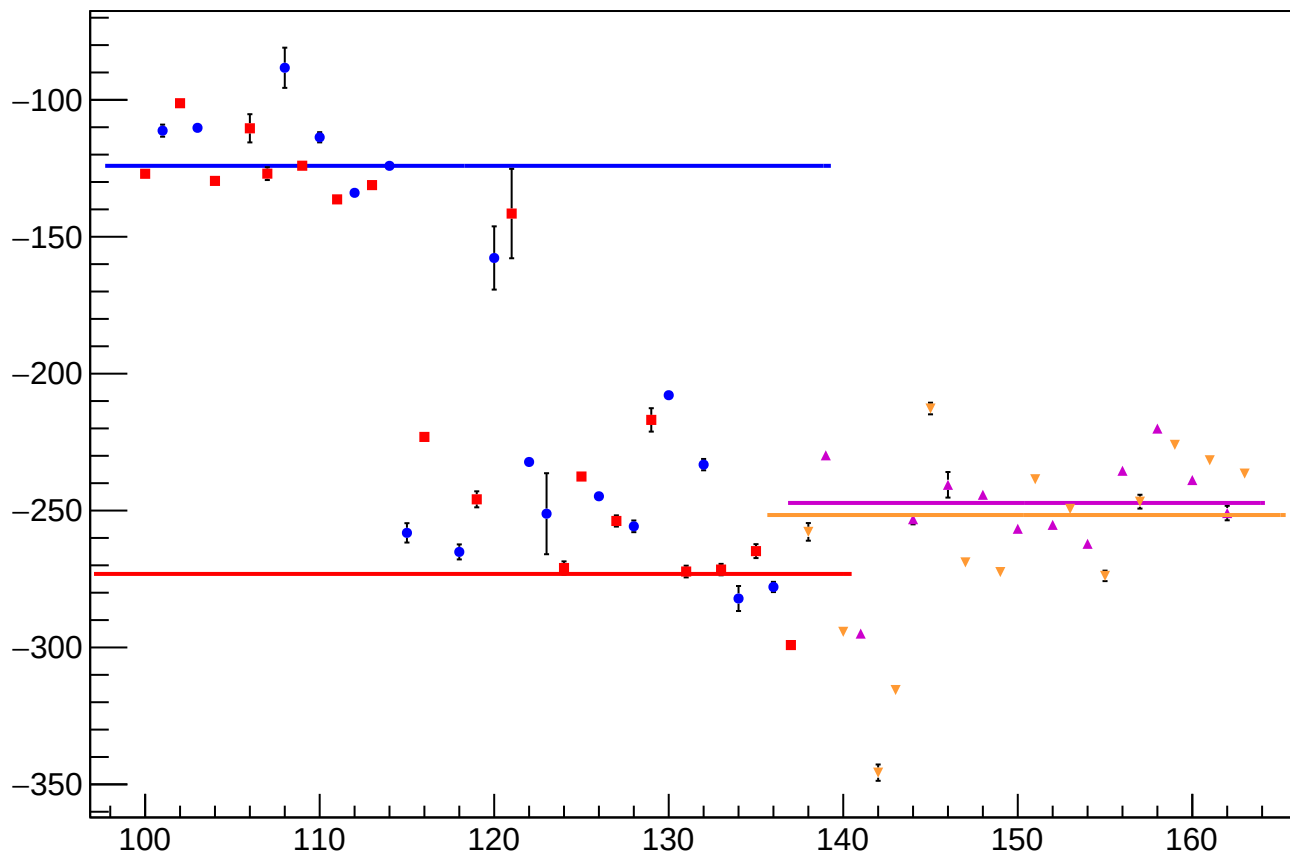
Left In:  $59.018 \pm 0.325$   $\chi^2/\text{NDF}$ : 4425.3/11

+ sign  $-4.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 34609.0/30

All:  $-4.139 \pm 0.000$   $\chi^2/\text{NDF}$ : 249081.4/61

- sign  $55.413 \pm 0.151$   $\chi^2/\text{NDF}$ : 58580.3/30

# dit\_sam4\_4eX\_slope vs Slug



Right In: -124.095+/-0.000  $\chi^2/\text{NDF}$ : 38152.5/16

Left Out: -251.627+/-0.422  $\chi^2/\text{NDF}$ : 4791.8/13

Right Out: -273.143+/-0.113  $\chi^2/\text{NDF}$ : 280141.9/18

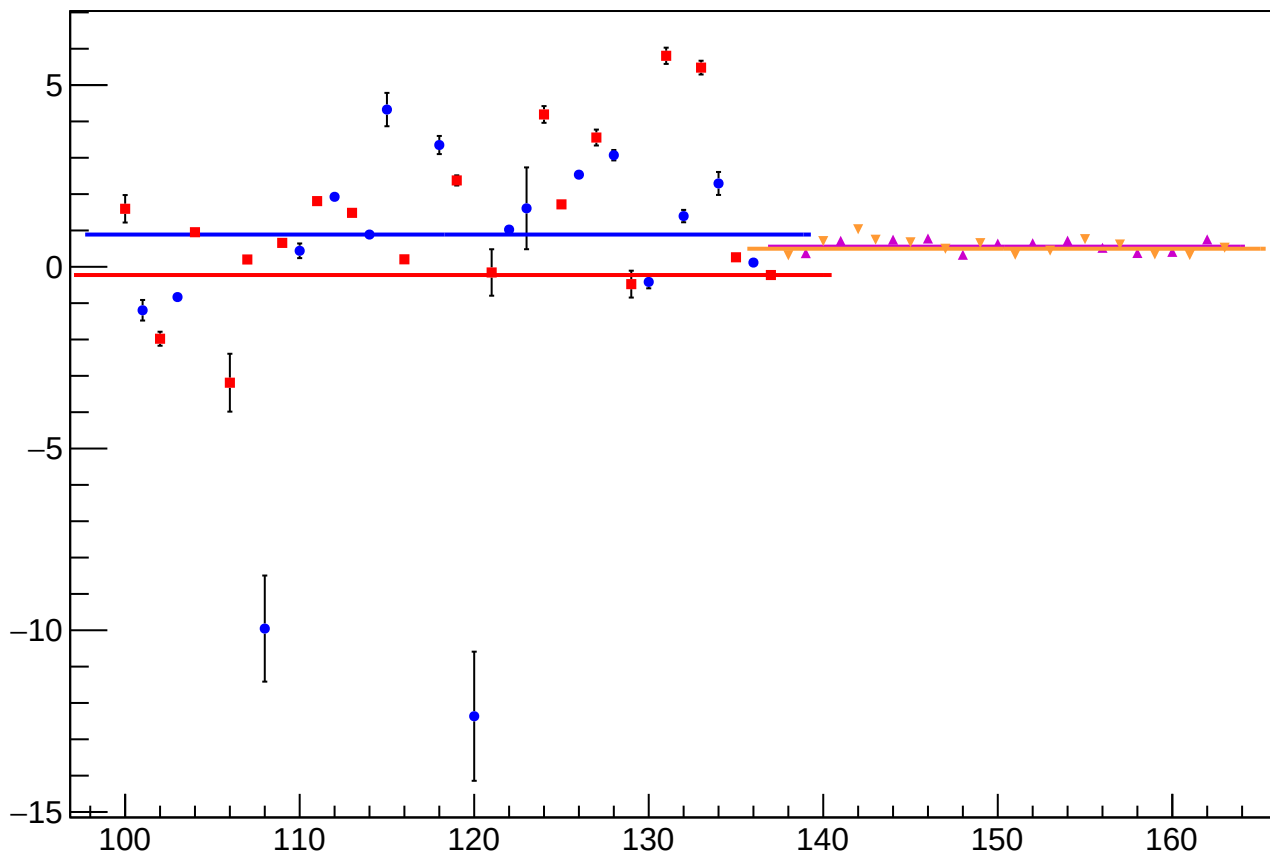
Left In: -247.216+/-0.320  $\chi^2/\text{NDF}$ : 3221.7/11

+ sign -124.095+/-0.000  $\chi^2/\text{NDF}$ : 134328.1/30

All: -124.095+/-0.000  $\chi^2/\text{NDF}$ : 2314566.3/61

- sign -270.275+/-0.106  $\chi^2/\text{NDF}$ : 289216.0/30

# dit\_sam4\_11X12X\_slope vs Slug



Right In:  $0.888 \pm 0.000$   $\chi^2/\text{NDF}$ : 8672.0/16

Left Out:  $0.498 \pm 0.003$   $\chi^2/\text{NDF}$ : 3557.3/13

Right Out:  $-0.226 \pm 0.000$   $\chi^2/\text{NDF}$ : 5031.1/18

Left In:  $0.555 \pm 0.003$   $\chi^2/\text{NDF}$ : 3722.2/11

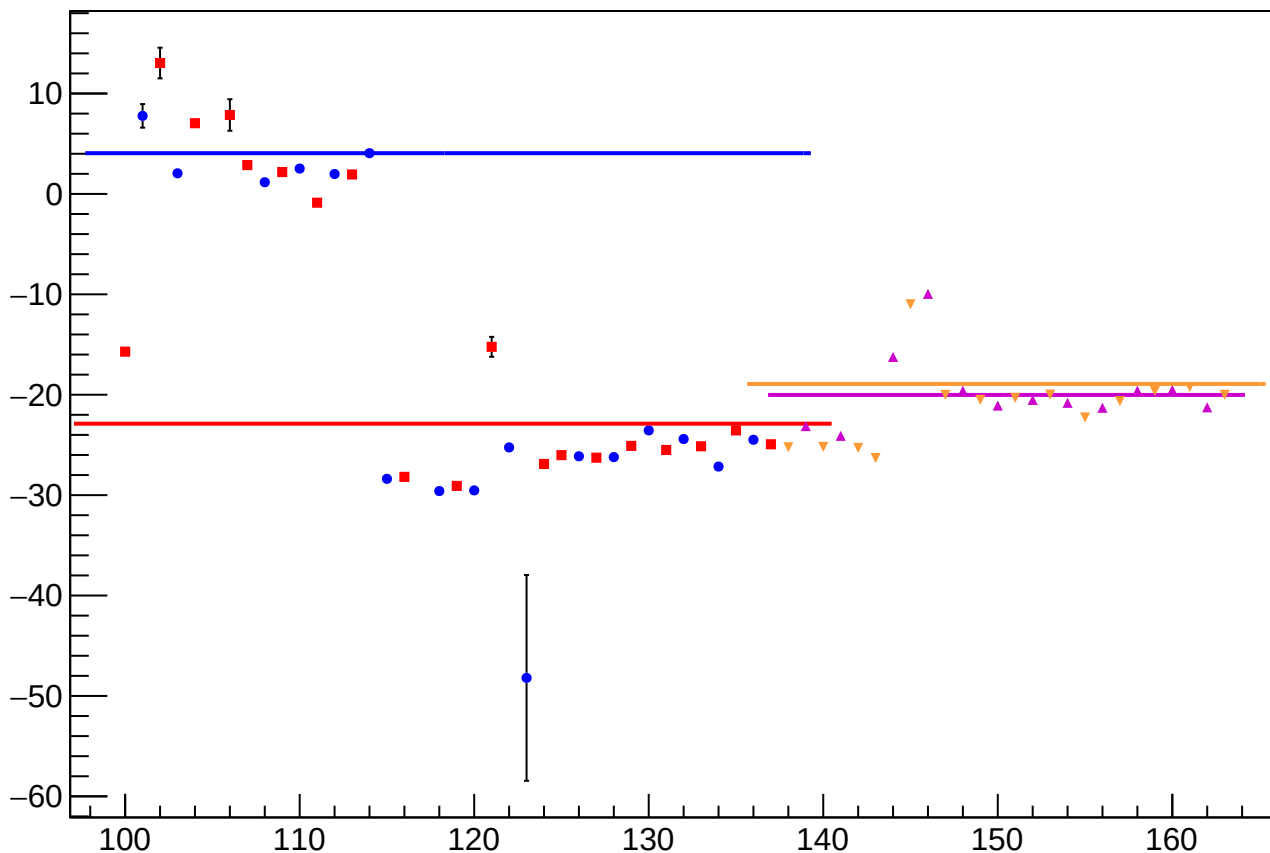
+ sign  $0.888 \pm 0.000$   $\chi^2/\text{NDF}$ : 29486.5/30

All:  $0.888 \pm 0.000$   $\chi^2/\text{NDF}$ : 422262690.0/61

- sign  $-0.226 \pm 0.000$   $\chi^2/\text{NDF}$ : 105588.3/30



# dit\_sam4\_4aY\_slope vs Slug



Right In:  $4.057 \pm 0.000$   $\chi^2/\text{NDF}$ : 1247888.2/16

Left Out:  $-18.925 \pm 0.014$   $\chi^2/\text{NDF}$ : 78282.5/13

Right Out:  $-22.885 \pm 0.026$   $\chi^2/\text{NDF}$ : 116508.9/18

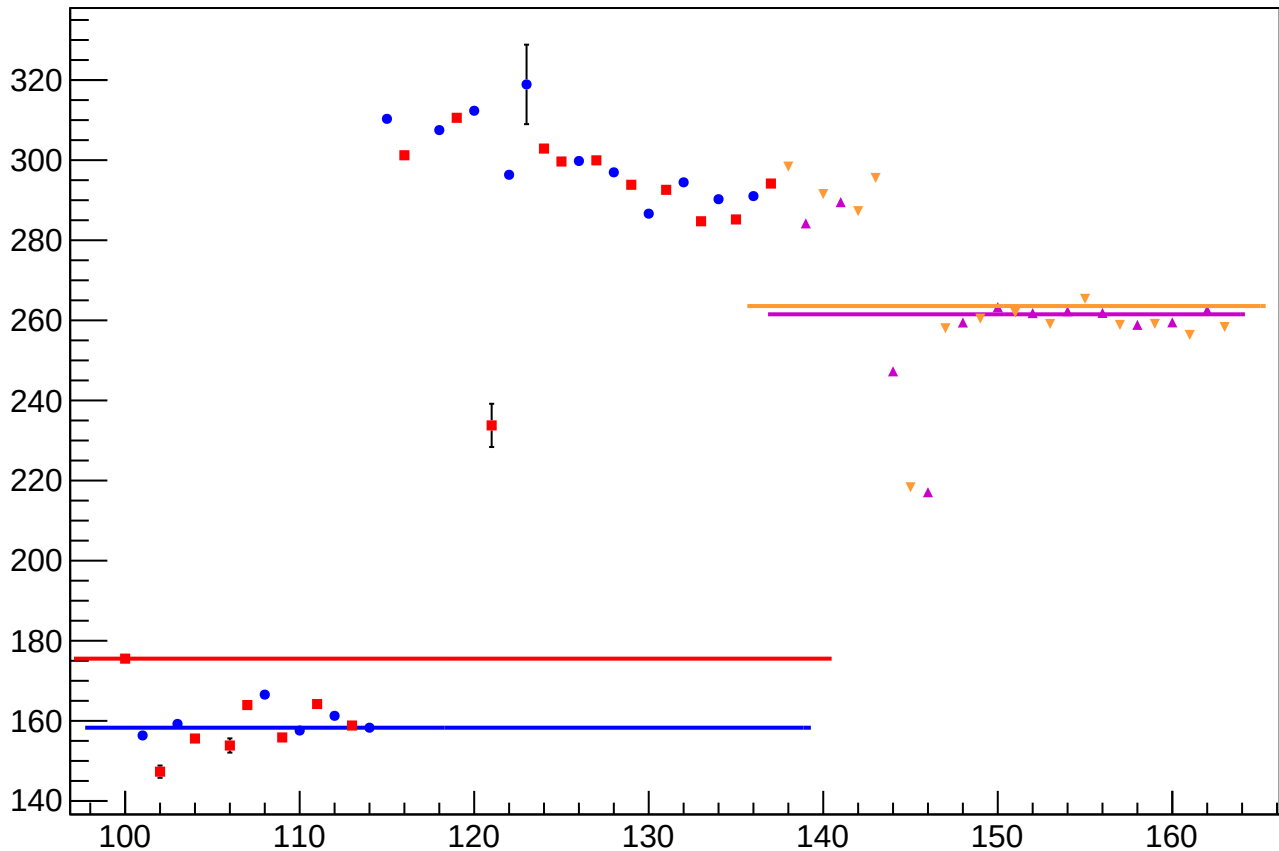
Left In:  $-20.019 \pm 0.012$   $\chi^2/\text{NDF}$ : 20366.7/11

+ sign  $4.057 \pm 0.000$   $\chi^2/\text{NDF}$ : 4147893.9/30

All:  $4.057 \pm 0.000$   $\chi^2/\text{NDF}$ : 9434942.6/61

- sign  $-20.505 \pm 0.011$   $\chi^2/\text{NDF}$ : 146721.6/30

# dit\_sam4\_4eY\_slope vs Slug



Right In: 158.293+/-0.000  $\chi^2/\text{NDF}$ : 2410913.3/16

Left Out: 263.572+/-0.037  $\chi^2/\text{NDF}$ :189732.4/13

Right Out: 175.536+/-0.000  $\chi^2/\text{NDF}$ : 2100196.2/18

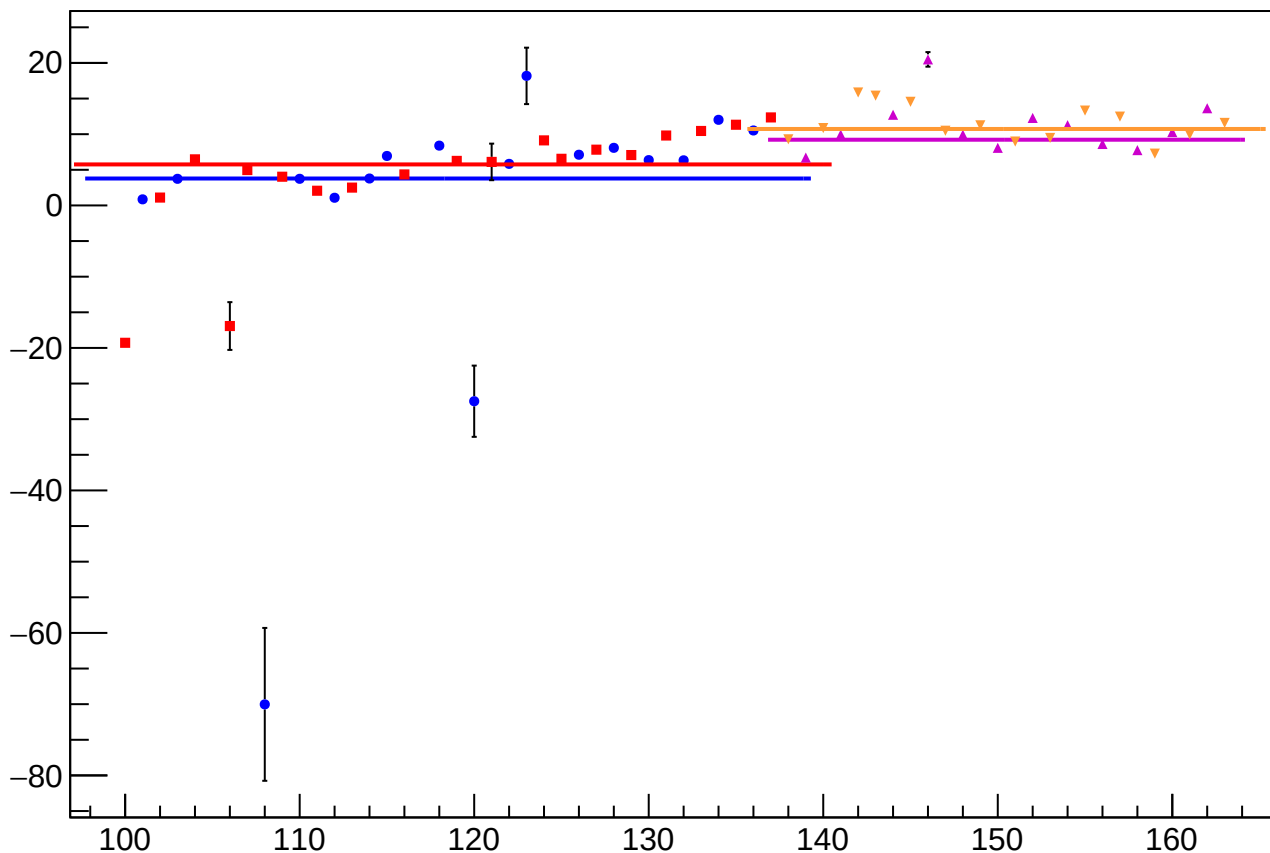
Left In: 261.512+/-0.033  $\chi^2/\text{NDF}$ :38411.6/11

+ sign 158.293+/-0.000  $\chi^2/\text{NDF}$ : 10495231.0/30

All: 172.618+/-0.000  $\chi^2/\text{NDF}$ : 373727491225

- sign 175.536+/-0.000  $\chi^2/\text{NDF}$ : 8832309.6/30

# dit\_sam5\_4aX\_slope vs Slug



Right In: 3.778 $\pm$ 0.000  $\chi^2$ /NDF: 6871.4/16

Left Out: 10.731 $\pm$ 0.036  $\chi^2$ /NDF: 2131.7/13

Right Out: 5.756 $\pm$ 0.026  $\chi^2$ /NDF: 22291.6/18

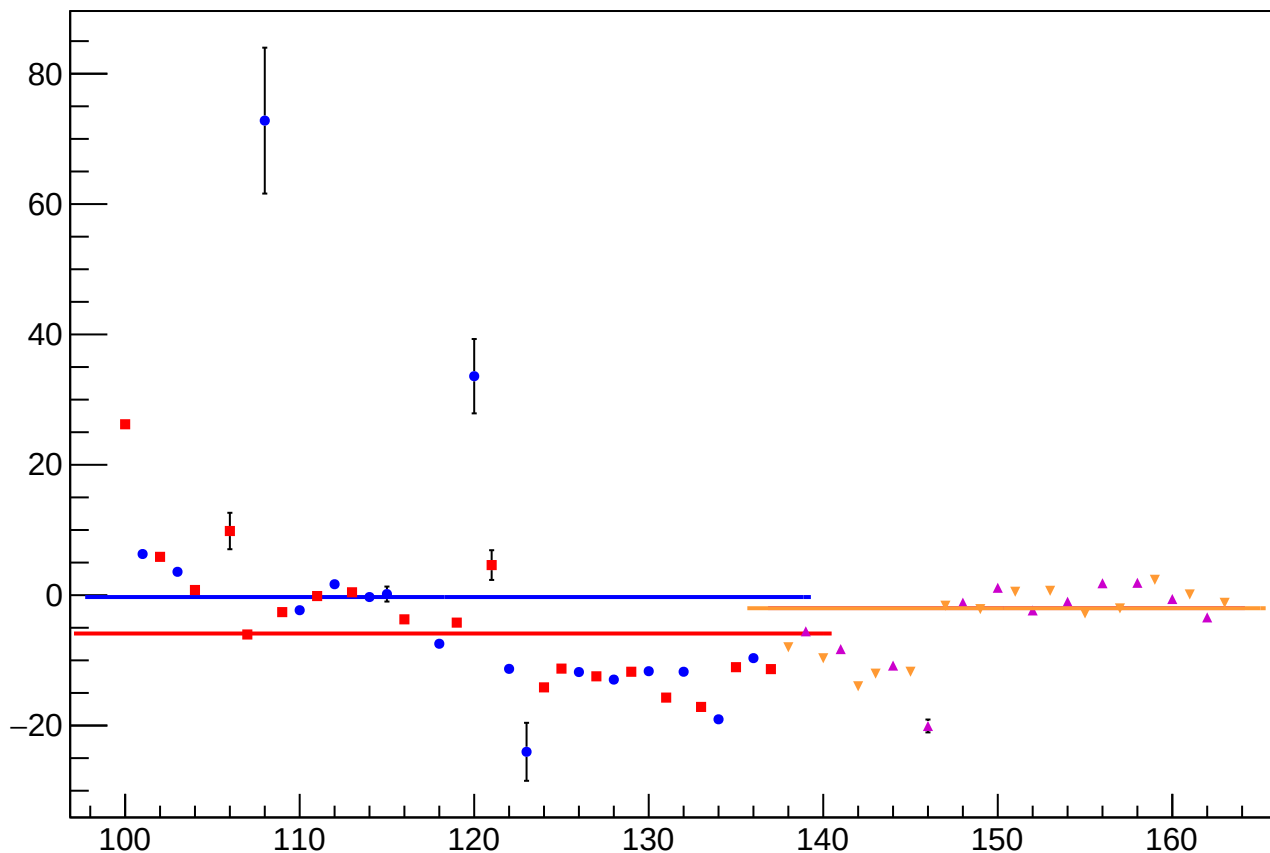
Left In: 9.223 $\pm$ 0.035  $\chi^2$ /NDF: 2887.7/11

+ sign 3.778 $\pm$ 0.000  $\chi^2$ /NDF: 45997.8/30

All: 3.778 $\pm$ 0.000  $\chi^2$ /NDF: 101773.0/61

- sign 6.990 $\pm$ 0.021  $\chi^2$ /NDF: 31629.5/30

# dit\_sam5\_4eX\_slope vs Slug



Right In:  $-0.287 \pm 0.000$   $\chi^2/\text{NDF}$ : 44276.5/16

Left Out:  $-2.003 \pm 0.036$   $\chi^2/\text{NDF}$ : 8936.2/13

Right Out:  $-5.882 \pm 0.027$   $\chi^2/\text{NDF}$ : 63493.9/18

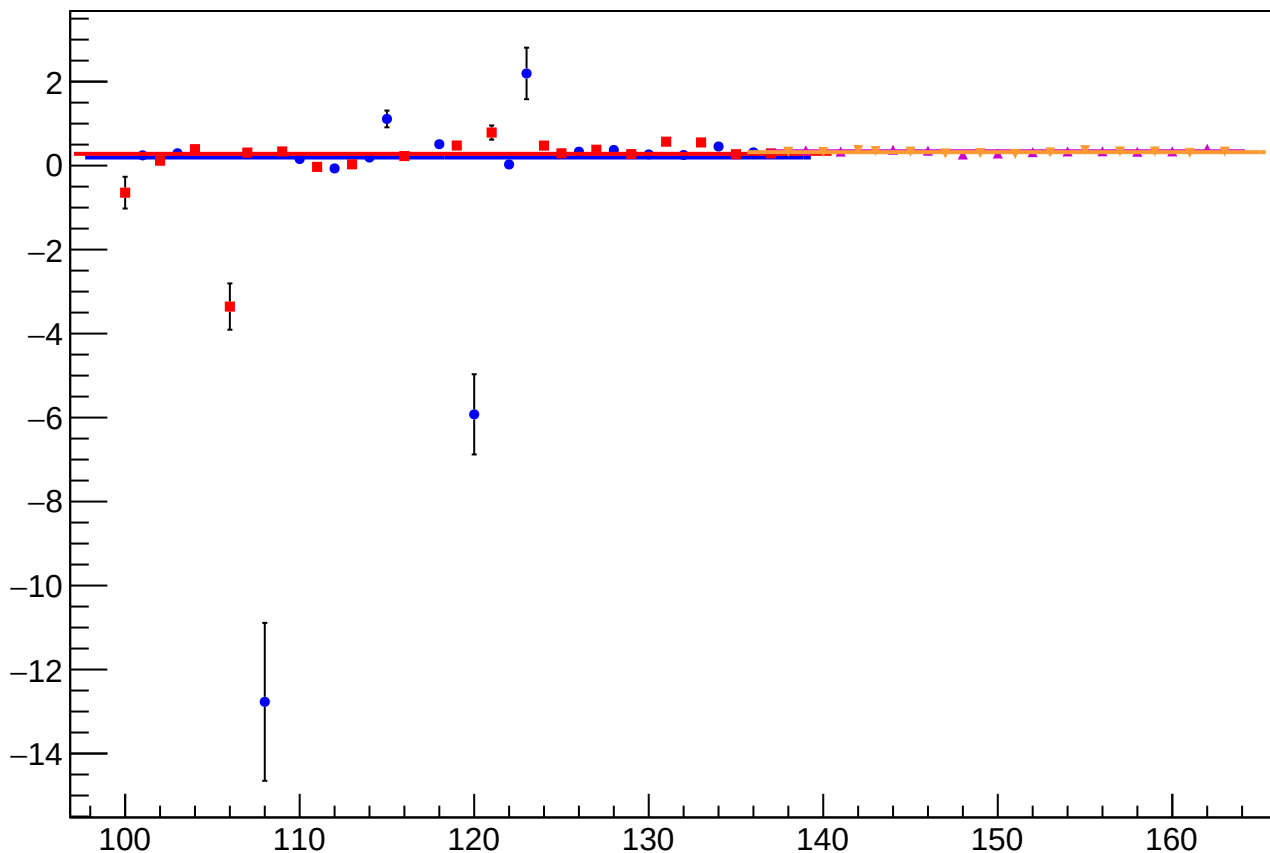
Left In:  $-1.978 \pm 0.035$   $\chi^2/\text{NDF}$ : 11687.8/11

+ sign  $-0.287 \pm 0.000$   $\chi^2/\text{NDF}$ : 55505.3/30

All:  $-0.287 \pm 0.000$   $\chi^2/\text{NDF}$ : 175332.1/61

- sign  $-4.404 \pm 0.021$   $\chi^2/\text{NDF}$ : 82976.1/30

# dit\_sam5\_11X12X\_slope vs Slug



Right In:  $0.193 \pm 0.000$   $\chi^2/\text{NDF}$ : 10027.5/16

Left Out:  $0.321 \pm 0.001$   $\chi^2/\text{NDF}$ : 1291.7/13

Right Out:  $0.280 \pm 0.001$   $\chi^2/\text{NDF}$ : 6059.0/18

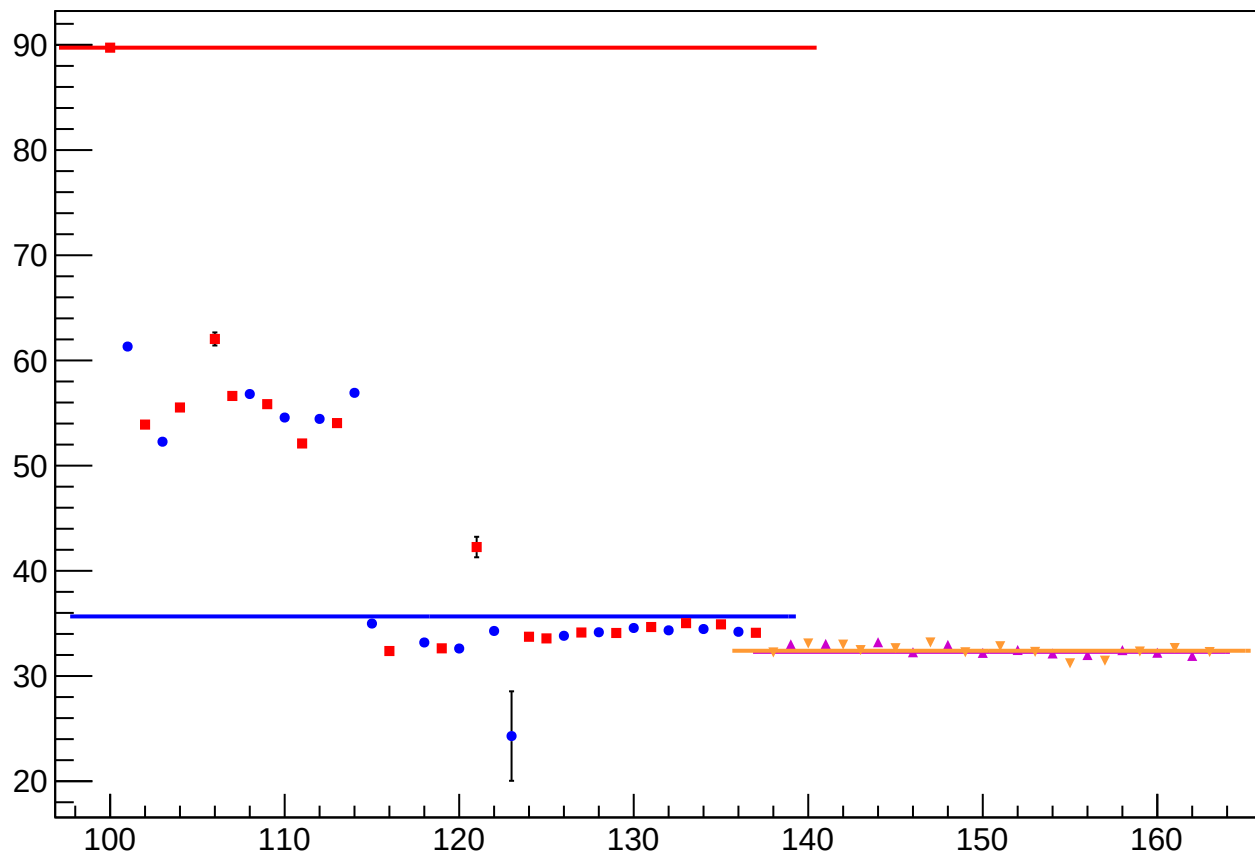
Left In:  $0.342 \pm 0.001$   $\chi^2/\text{NDF}$ : 2916.6/11

+ sign  $0.193 \pm 0.000$   $\chi^2/\text{NDF}$ : 51523.7/30

All:  $0.193 \pm 0.000$   $\chi^2/\text{NDF}$ : 114781.3/61

- sign  $0.332 \pm 0.001$   $\chi^2/\text{NDF}$ : 10413.2/30

# dit\_sam5\_4aY\_slope vs Slug



Right In: 35.664 $\pm$ 0.011  $\chi^2$ /NDF: 218662.5/16

Left Out: 32.402 $\pm$ 0.004  $\chi^2$ /NDF: 3294.5/13

Right Out: 89.735 $\pm$ 0.000  $\chi^2$ /NDF: 25801560.6/18

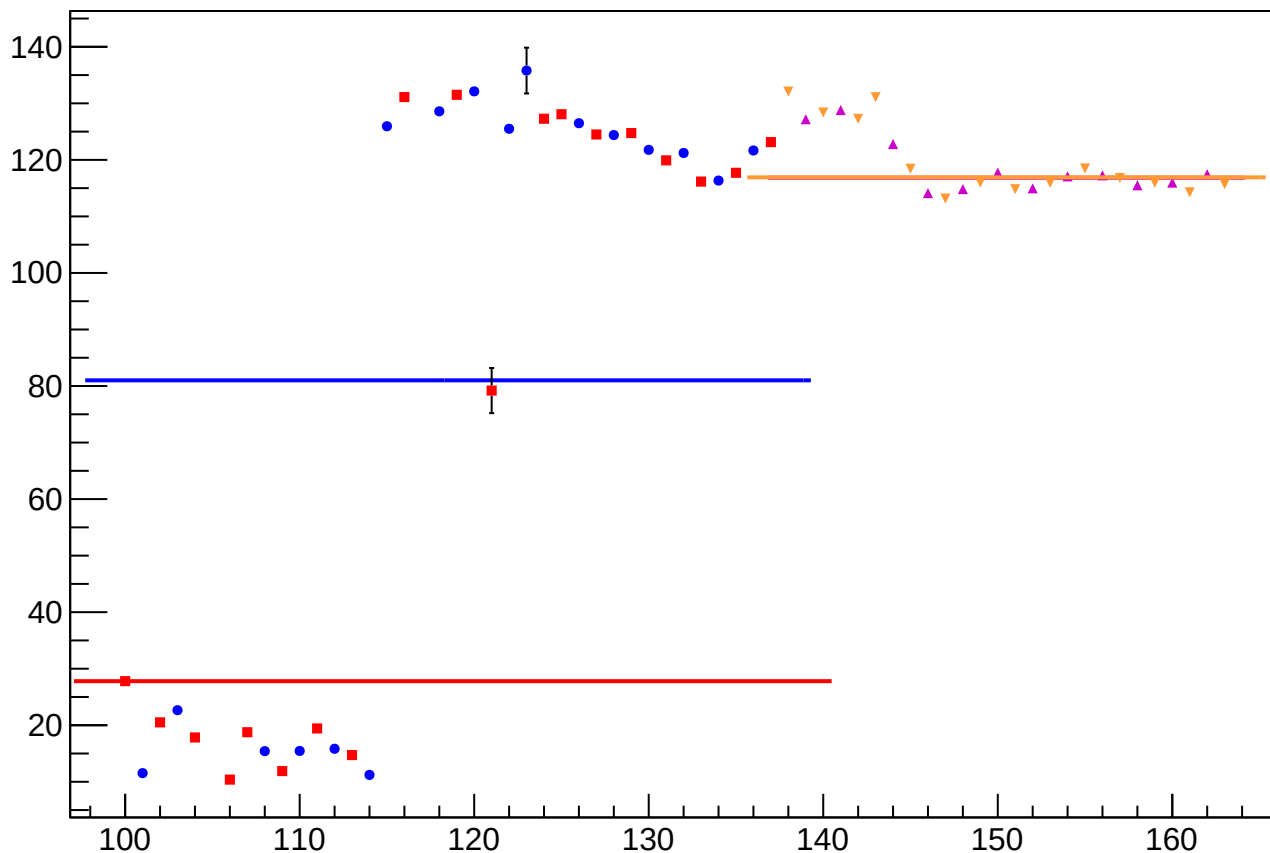
Left In: 32.298 $\pm$ 0.004  $\chi^2$ /NDF: 5815.7/11

+ sign 32.821 $\pm$ 0.004  $\chi^2$ /NDF: 293750.0/30

All: 89.735 $\pm$ 0.000  $\chi^2$ /NDF: 426245629.2/61

- sign 89.735 $\pm$ 0.000  $\chi^2$ /NDF: 230817387.7/30

# dit\_sam5\_4eY\_slope vs Slug



Right In: 81.005+/-0.035     $\chi^2$ /NDF: 2228881.4/16

Left Out: 116.909+/-0.010     $\chi^2$ /NDF: 138228.1/13

Right Out: 27.798+/-0.000     $\chi^2$ /NDF: 9183707.8/18

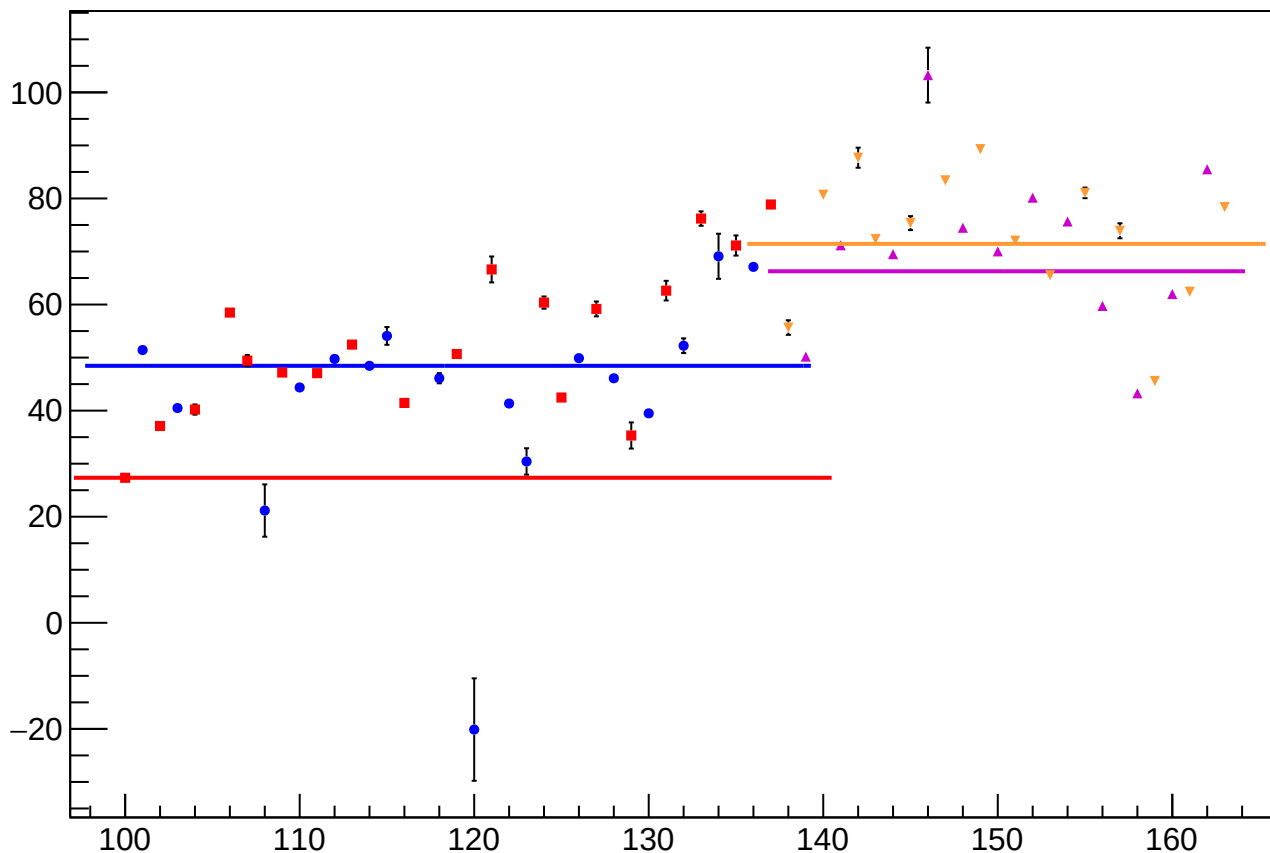
Left In: 116.840+/-0.010     $\chi^2$ /NDF: 40812.4/11

+ sign 114.151+/-0.010     $\chi^2$ /NDF: 3365101.4/30

All: 27.798+/-0.000     $\chi^2$ /NDF: 180412064.7/61

- sign 27.798+/-0.000     $\chi^2$ /NDF: 95633840.1/30

# dit\_sam6\_4aX\_slope vs Slug



Right In:  $48.450 \pm 0.000$   $\chi^2/\text{NDF}$ : 2751.4/16

Left Out:  $71.439 \pm 0.215$   $\chi^2/\text{NDF}$ : 3900.7/13

Right Out:  $27.342 \pm 0.000$   $\chi^2/\text{NDF}$ : 25810.4/18

Left In:  $66.275 \pm 0.177$   $\chi^2/\text{NDF}$ : 4239.5/11

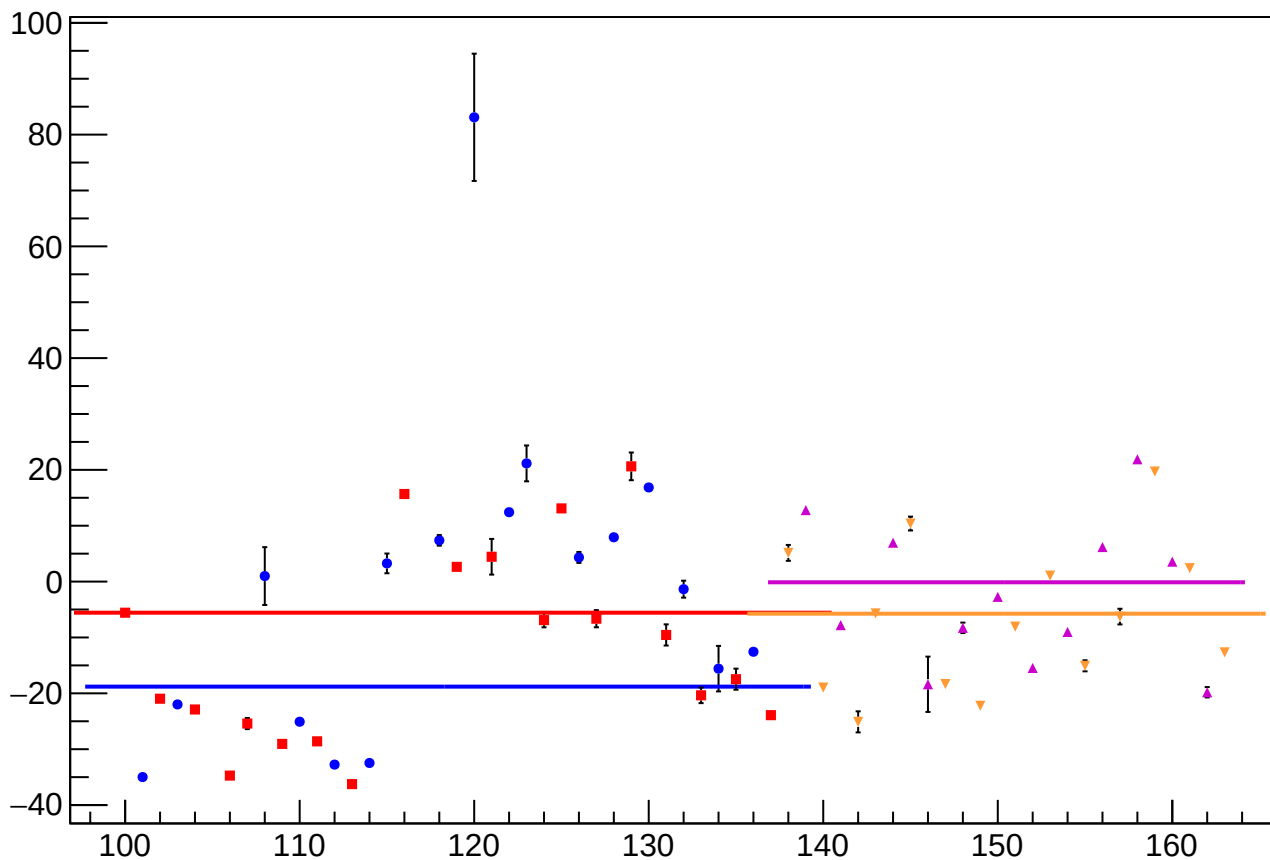
+ sign  $48.450 \pm 0.000$   $\chi^2/\text{NDF}$ : 18136.7/30

All:  $28.365 \pm 0.000$   $\chi^2/\text{NDF}$ : 102629010488

- sign  $27.342 \pm 0.000$   $\chi^2/\text{NDF}$ : 78167.0/30



# dit\_sam6\_4eX\_slope vs Slug



Right In:  $-18.800 \pm 0.148$   $\chi^2/\text{NDF}$ : 11764.7/16

Left Out:  $-5.745 \pm 0.213$   $\chi^2/\text{NDF}$ : 4133.9/13

Right Out:  $-5.568 \pm 0.000$   $\chi^2/\text{NDF}$ : 23097.3/18

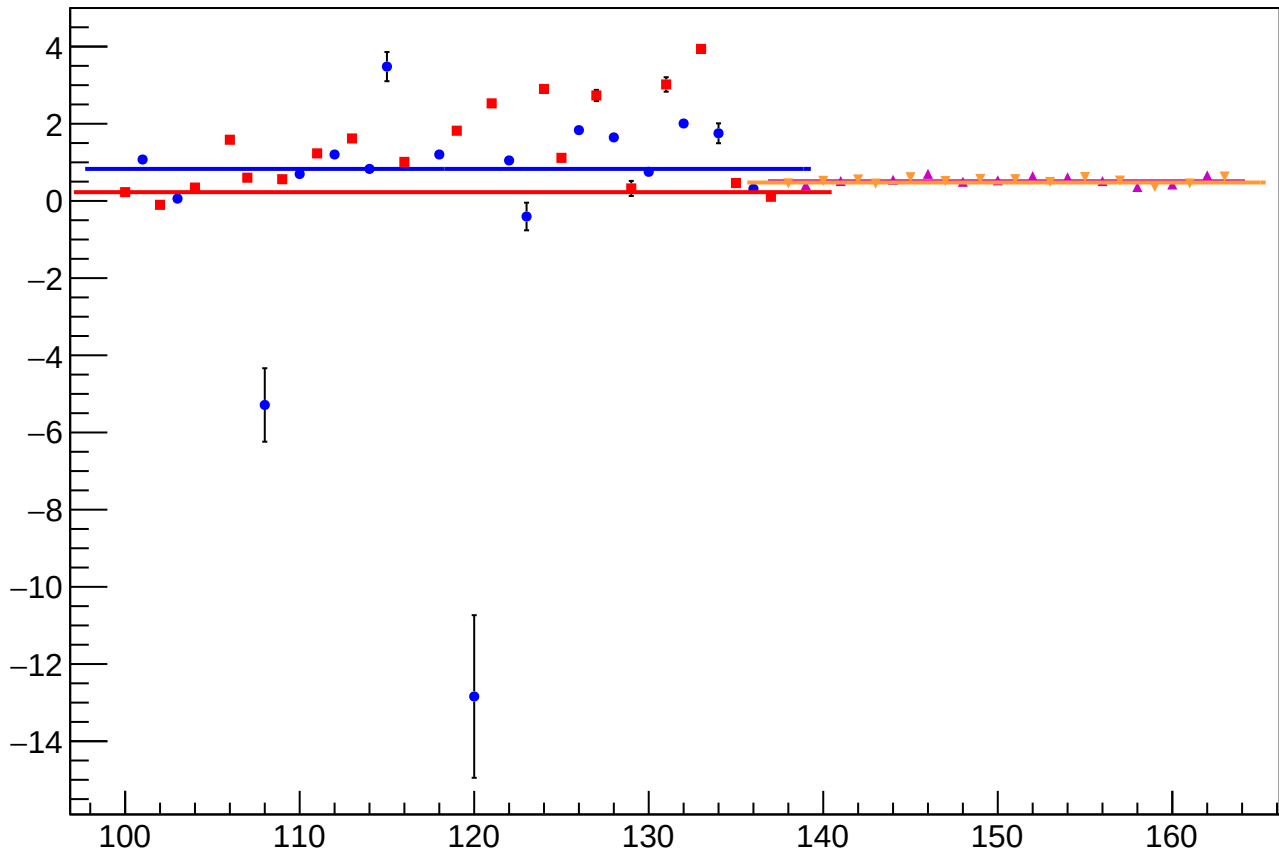
Left In:  $-0.126 \pm 0.175$   $\chi^2/\text{NDF}$ : 3869.8/11

+ sign  $-14.519 \pm 0.122$   $\chi^2/\text{NDF}$ : 18434.7/30

All:  $-5.568 \pm 0.000$   $\chi^2/\text{NDF}$ : 51781.9/61

- sign  $-5.568 \pm 0.000$   $\chi^2/\text{NDF}$ : 27936.1/30

# dit\_sam6\_11X12X\_slope vs Slug



Right In:  $0.830 \pm 0.000$   $\chi^2/\text{NDF}$ : 14882.7/16

Left Out:  $0.478 \pm 0.001$   $\chi^2/\text{NDF}$ : 5429.5/13

Right Out:  $0.227 \pm 0.000$   $\chi^2/\text{NDF}$ : 11819.9/18

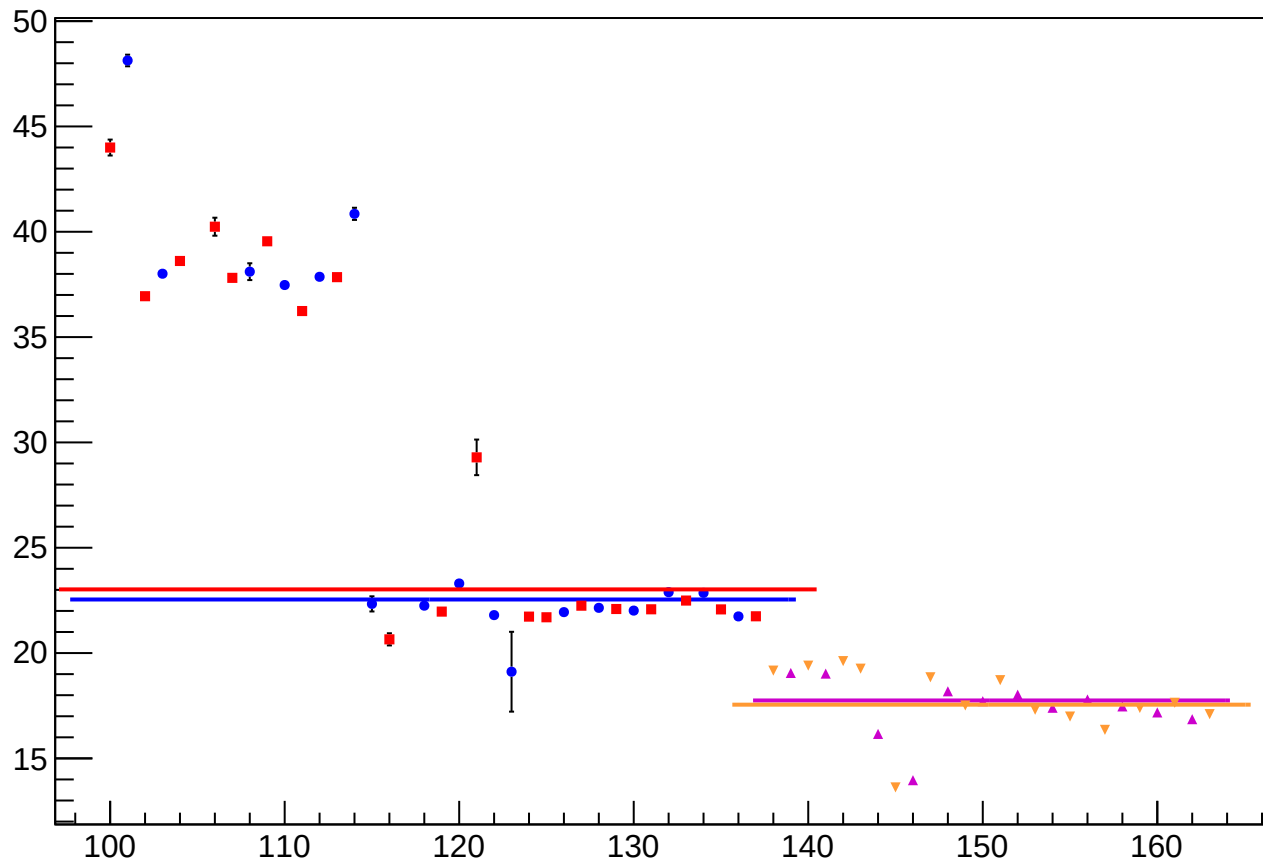
Left In:  $0.509 \pm 0.001$   $\chi^2/\text{NDF}$ : 7572.6/11

+ sign  $0.830 \pm 0.000$   $\chi^2/\text{NDF}$ : 99227.3/30

All:  $0.289 \pm 0.000$   $\chi^2/\text{NDF}$ : 29066082561457

- sign  $0.227 \pm 0.000$   $\chi^2/\text{NDF}$ : 72460.6/30

# dit\_sam6\_4aY\_slope vs Slug



Right In:  $22.543 \pm 0.009$   $\chi^2/\text{NDF}: 105452.8/16$

Left Out:  $17.550 \pm 0.006$   $\chi^2/\text{NDF}: 70451.9/13$

Right Out:  $23.023 \pm 0.009$   $\chi^2/\text{NDF}: 165838.0/18$

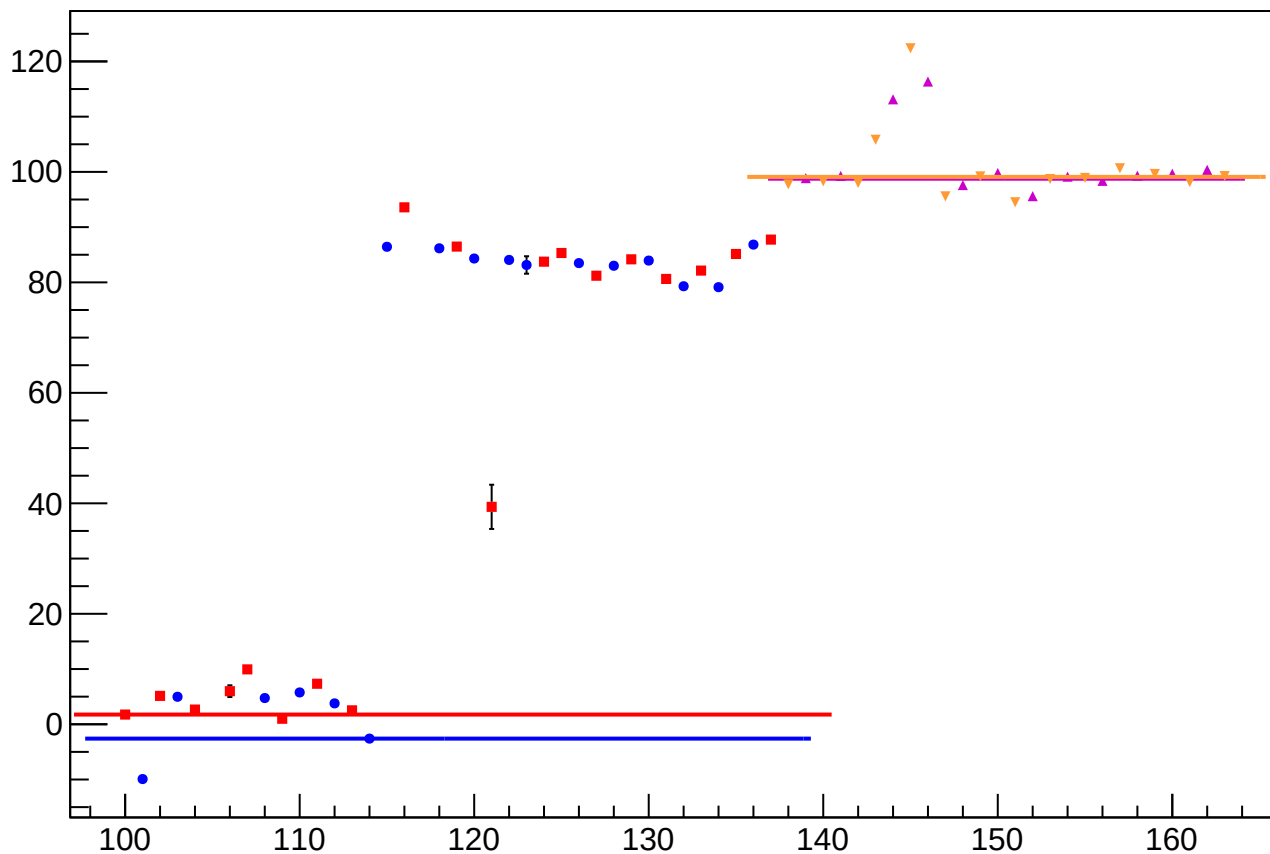
Left In:  $17.749 \pm 0.007$   $\chi^2/\text{NDF}: 13288.7/11$

+ sign  $18.978 \pm 0.005$   $\chi^2/\text{NDF}: 381281.2/30$

All:  $19.342 \pm 0.004$   $\chi^2/\text{NDF}: 779588.1/61$

- sign  $19.811 \pm 0.006$   $\chi^2/\text{NDF}: 386067.5/30$

# dit\_sam6\_4eY\_slope vs Slug



Right In: -2.596+/-0.000  $\chi^2$ /NDF: 7395182.7/16

Left Out: 99.096+/-0.013  $\chi^2$ /NDF:68820.4/13

Right Out: 1.758+/-0.000  $\chi^2$ /NDF: 4230949.4/18

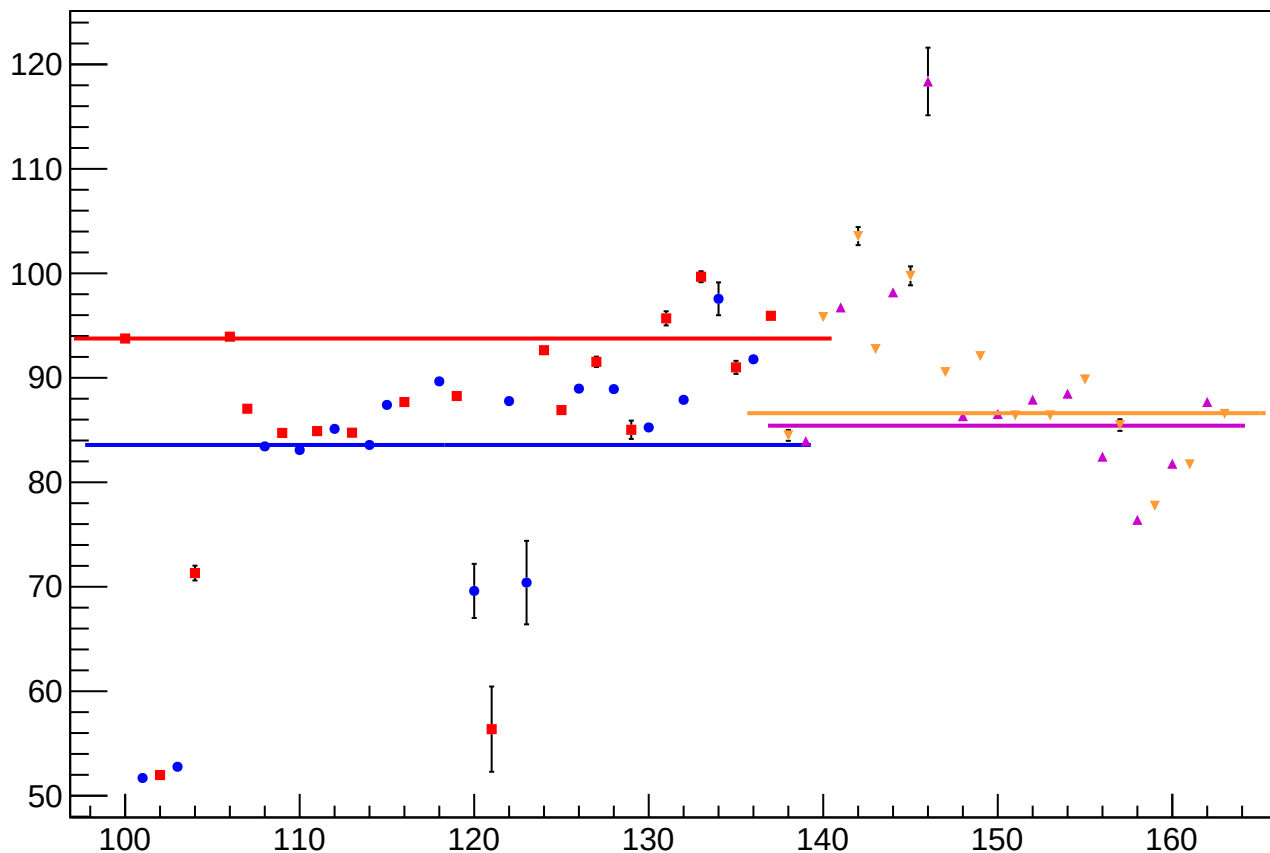
Left In: 98.763+/-0.013  $\chi^2$ /NDF:17788.6/11

+ sign -2.596+/-0.000  $\chi^2$ /NDF: 68604623.6/30

All: -1.059+/-0.000  $\chi^2$ /NDF: 3731791751577

- sign 1.758+/-0.000  $\chi^2$ /NDF: 58113193.2/30

# dit\_sam7\_4aX\_slope vs Slug



Right In: 83.573+/-0.000  $\chi^2$ /NDF: 49468.0/16

Left Out: 86.616+/-0.081  $\chi^2$ /NDF:5590.6/13

Right Out: 93.762+/-0.000  $\chi^2$ /NDF: 82848.8/18

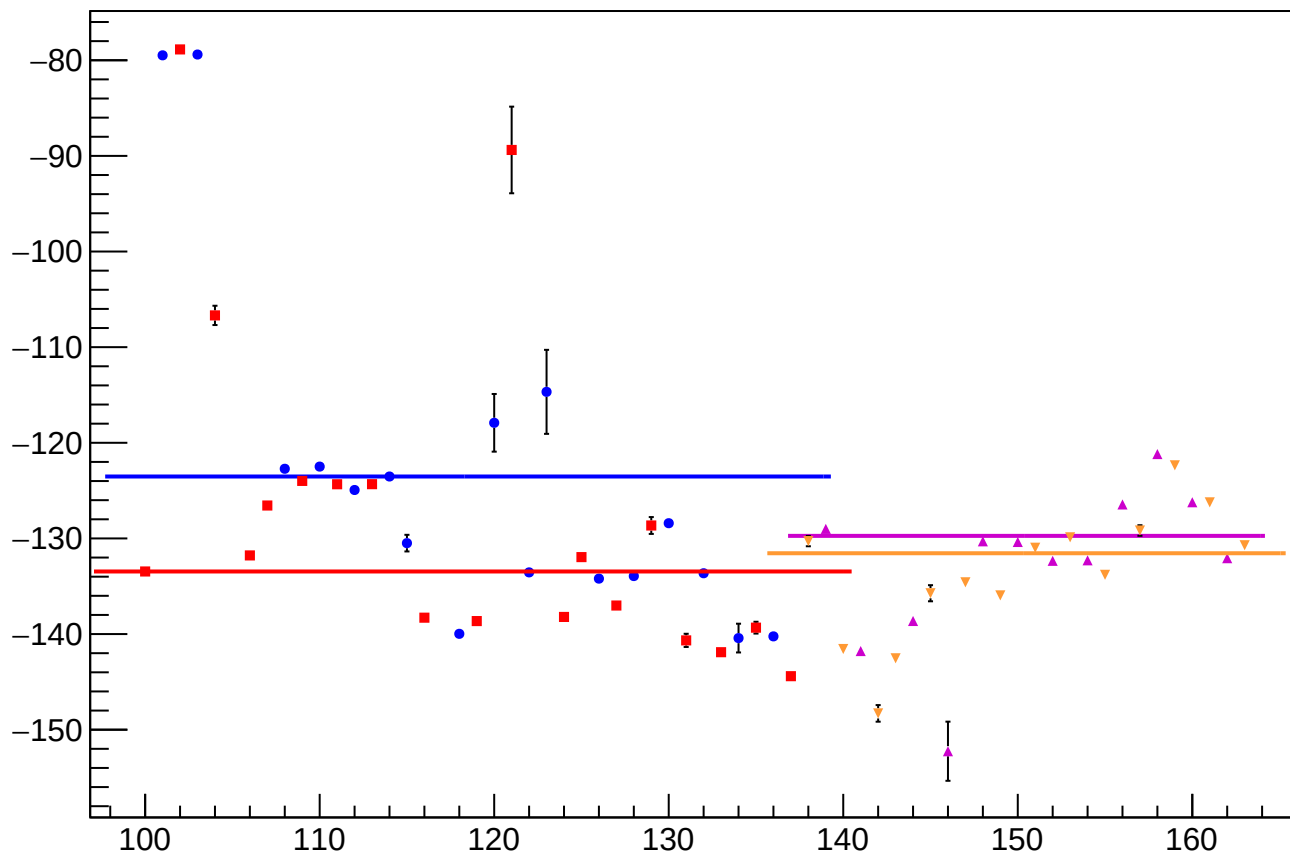
Left In: 85.418+/-0.065  $\chi^2$ /NDF:5951.6/11

+ sign 83.573+/-0.000  $\chi^2$ /NDF: 56476.7/30

All: 87.169+/-0.000  $\chi^2$ /NDF: 1995684404141

- sign 93.762+/-0.000  $\chi^2$ /NDF: 105252.9/30

# dit\_sam7\_4eX\_slope vs Slug



Right In:  $-123.524 \pm 0.000$   $\chi^2/\text{NDF}: 160356.5/16$

Left Out:  $-131.549 \pm 0.080$   $\chi^2/\text{NDF}: 7114.3/13$

Right Out:  $-133.456 \pm 0.000$   $\chi^2/\text{NDF}: 394896.3/18$

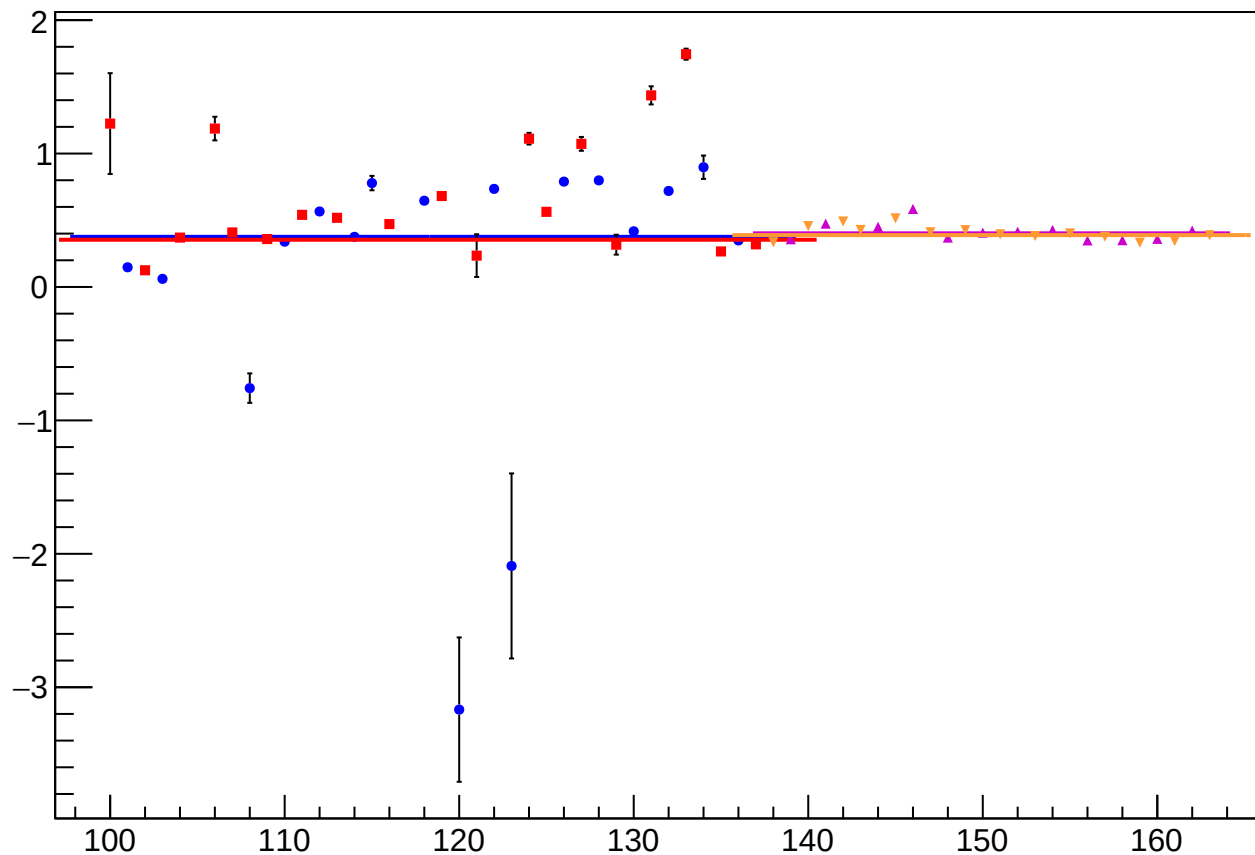
Left In:  $-129.732 \pm 0.064$   $\chi^2/\text{NDF}: 5141.8/11$

+ sign  $-123.524 \pm 0.000$   $\chi^2/\text{NDF}: 177426.4/30$

All:  $-124.716 \pm 0.000$   $\chi^2/\text{NDF}: 64467869901$

- sign  $-133.456 \pm 0.000$   $\chi^2/\text{NDF}: 403441.6/30$

# dit\_sam7\_11X12X\_slope vs Slug



Right In: 0.376 $\pm$ 0.000  $\chi^2$ /NDF: 3961.7/16

Left Out: 0.389 $\pm$ 0.001  $\chi^2$ /NDF: 4576.3/13

Right Out: 0.354 $\pm$ 0.002  $\chi^2$ /NDF: 4592.7/18

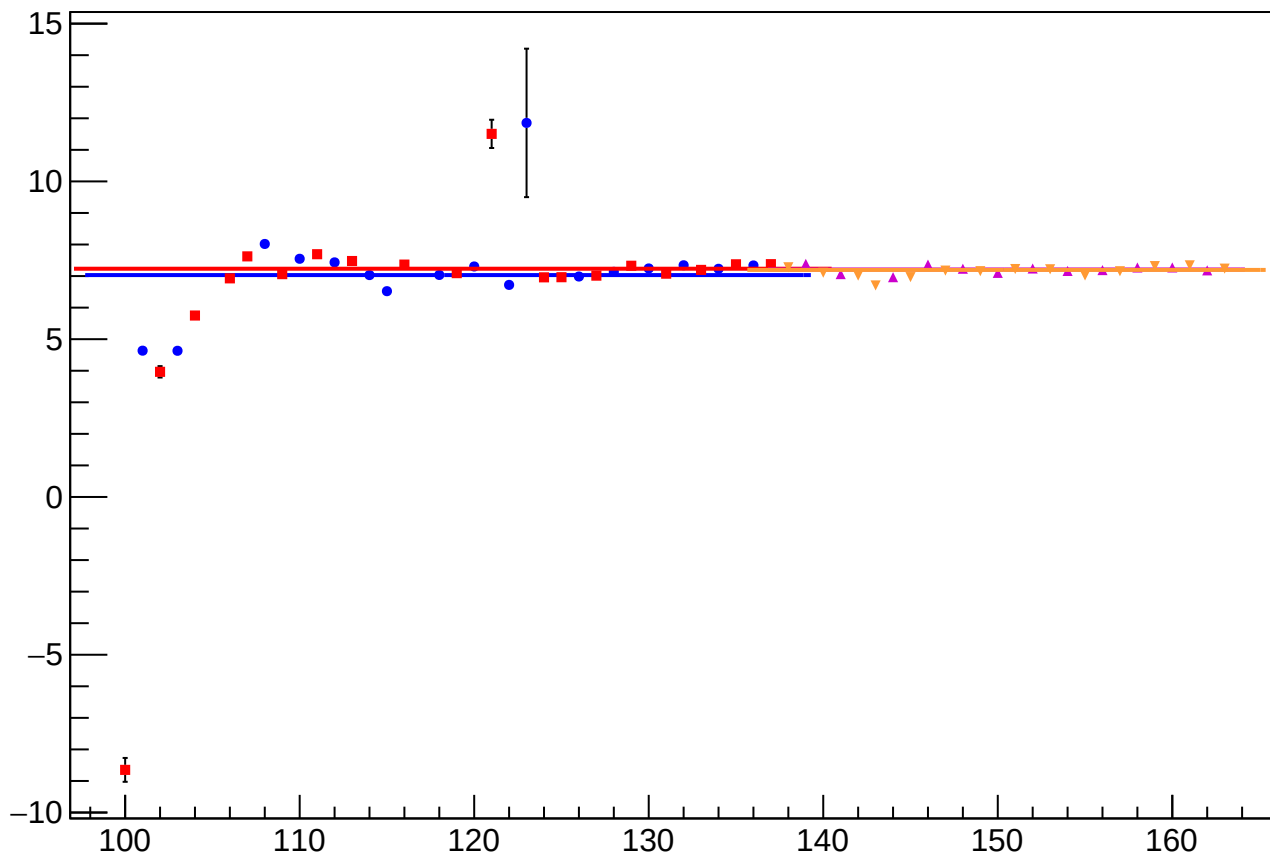
Left In: 0.402 $\pm$ 0.001  $\chi^2$ /NDF: 5952.5/11

+ sign 0.376 $\pm$ 0.000  $\chi^2$ /NDF: 8987.8/30

All: 0.376 $\pm$ 0.000  $\chi^2$ /NDF: 22290.6/61

- sign 0.397 $\pm$ 0.000  $\chi^2$ /NDF: 11451.9/30

dit\_sam7\_4aY\_slope vs Slug



Right In: 7.032 $\pm$ 0.000  $\chi^2$ /NDF: 19770.1/16

Left Out: 7.195 $\pm$ 0.001  $\chi^2$ /NDF: 22945.3/13

Right Out: 7.233 $\pm$ 0.002  $\chi^2$ /NDF: 10061.8/18

Left In: 7.209 $\pm$ 0.001  $\chi^2$ /NDF: 9994.0/11

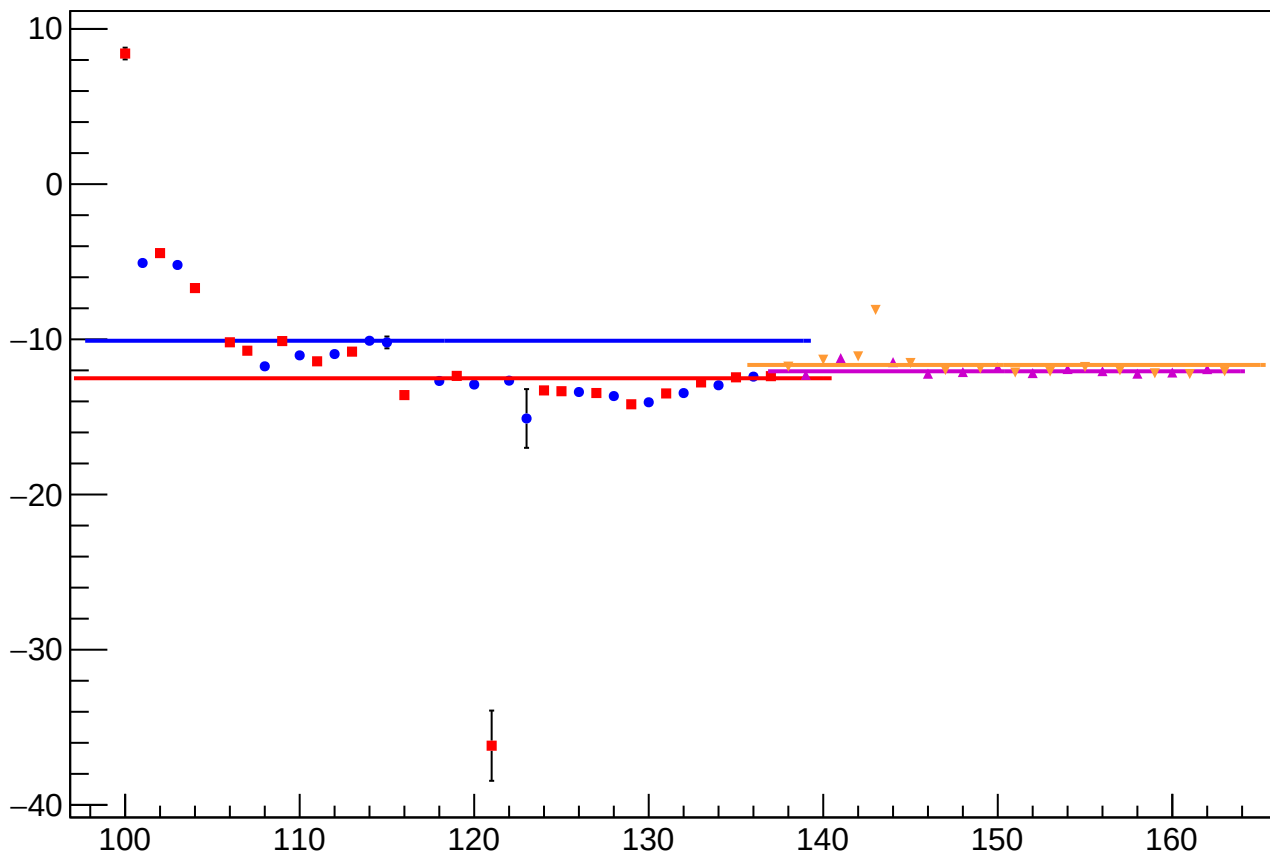
+ sign 7.032 $\pm$ 0.000  $\chi^2$ /NDF: 68535.6/30

All: 7.032 $\pm$ 0.000  $\chi^2$ /NDF: 129906.8/61

- sign 7.213 $\pm$ 0.001  $\chi^2$ /NDF: 20141.6/30



# dit\_sam7\_4eY\_slope vs Slug



Right In:  $-10.092 \pm 0.000$   $\chi^2/\text{NDF}$ : 543504.2/16

Left Out:  $-11.650 \pm 0.002$   $\chi^2/\text{NDF}$ : 400300.6/13

Right Out:  $-12.509 \pm 0.004$   $\chi^2/\text{NDF}$ : 103509.4/18

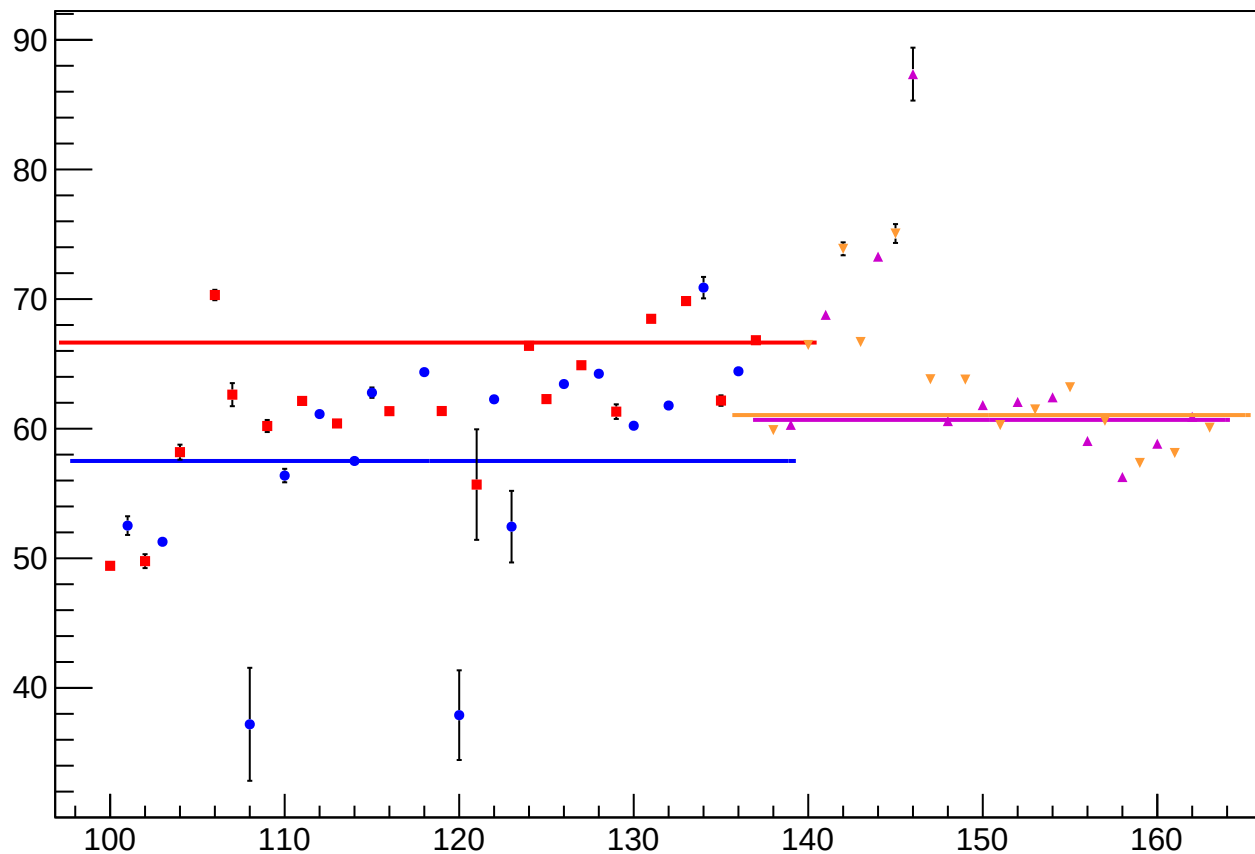
Left In:  $-12.059 \pm 0.002$   $\chi^2/\text{NDF}$ : 14917.6/11

+ sign  $-10.092 \pm 0.000$   $\chi^2/\text{NDF}$ : 1605208.6/30

All:  $-10.092 \pm 0.000$   $\chi^2/\text{NDF}$ : 3239711.1/61

- sign  $-12.149 \pm 0.002$   $\chi^2/\text{NDF}$ : 129921.5/30

# dit\_sam8\_4aX\_slope vs Slug



Right In:  $57.510 \pm 0.000$   $\chi^2/\text{NDF}$ : 8108.6/16

Left Out:  $61.051 \pm 0.047$   $\chi^2/\text{NDF}$ : 5152.0/13

Right Out:  $66.645 \pm 0.013$   $\chi^2/\text{NDF}$ : 8163.8/18

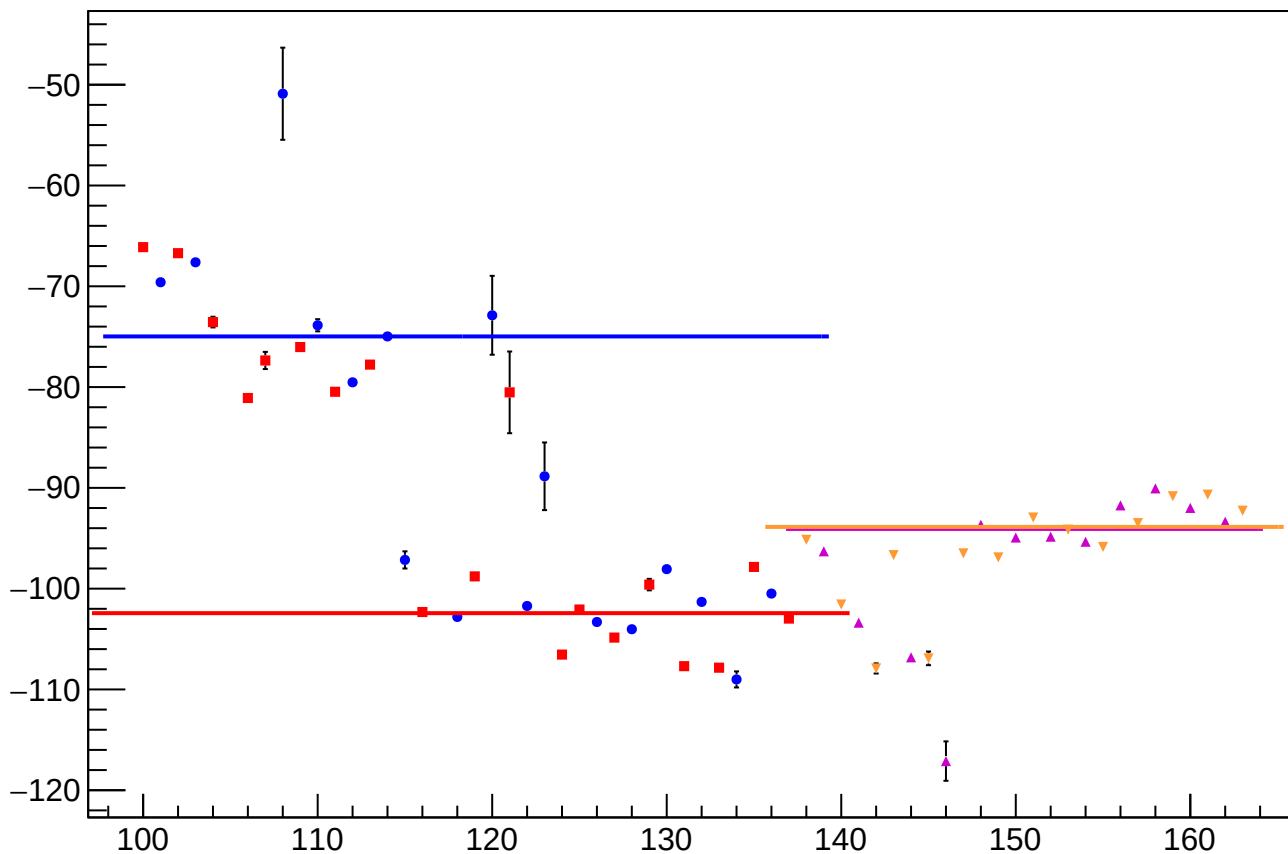
Left In:  $60.679 \pm 0.038$   $\chi^2/\text{NDF}$ : 5575.7/11

+ sign  $57.510 \pm 0.000$   $\chi^2/\text{NDF}$ : 18989.4/30

All:  $57.510 \pm 0.000$   $\chi^2/\text{NDF}$ : 527839.8/61

- sign  $66.014 \pm 0.012$   $\chi^2/\text{NDF}$ : 35749.5/30

# dit\_sam8\_4eX\_slope vs Slug



Right In: -74.974 $\pm$ 0.000  $\chi^2$ /NDF: 130544.0/16

Left Out: -93.873 $\pm$ 0.047  $\chi^2$ /NDF: 4753.6/13

Right Out: -102.430 $\pm$ 0.018  $\chi^2$ /NDF: 50377.5/18

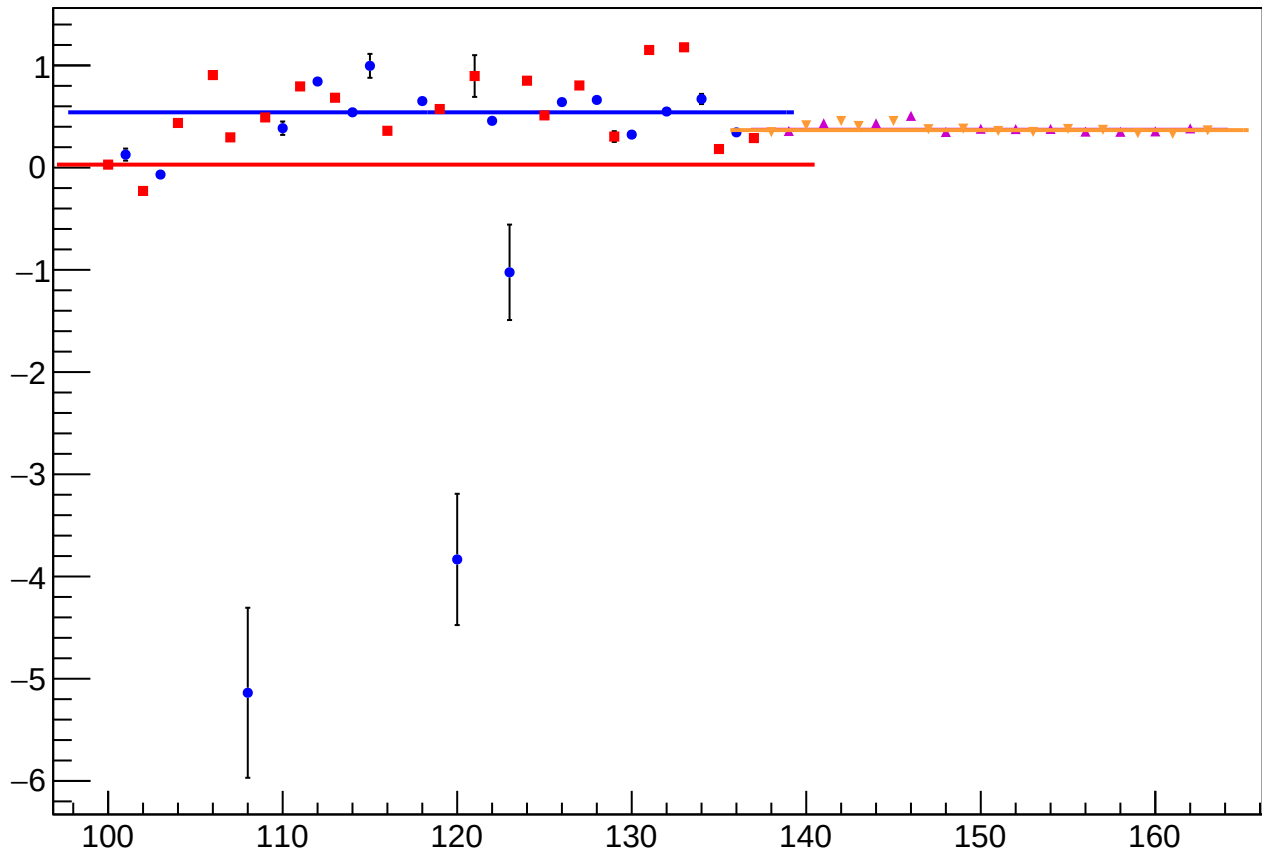
Left In: -94.074 $\pm$ 0.038  $\chi^2$ /NDF: 6147.2/11

+ sign -74.974 $\pm$ 0.000  $\chi^2$ /NDF: 297583.7/30

All: -74.974 $\pm$ 0.000  $\chi^2$ /NDF: 2976217.0/61

- sign -100.955 $\pm$ 0.016  $\chi^2$ /NDF: 95372.8/30

# dit\_sam8\_11X12X\_slope vs Slug



Right In:  $0.541 \pm 0.000$   $\chi^2/\text{NDF}$ : 29180.5/16

Left Out:  $0.367 \pm 0.000$   $\chi^2/\text{NDF}$ : 3036.6/13

Right Out:  $0.030 \pm 0.000$   $\chi^2/\text{NDF}$ : 121659.5/18

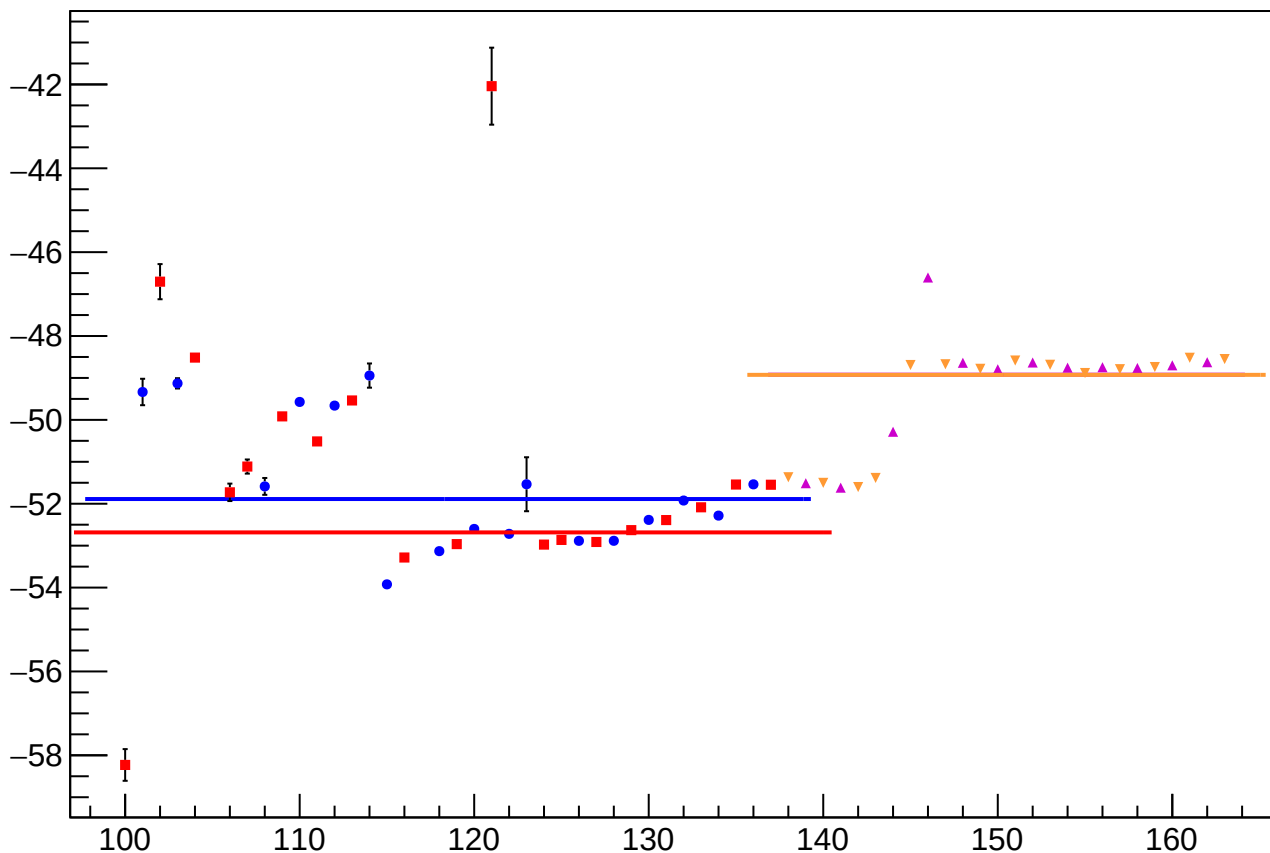
Left In:  $0.370 \pm 0.000$   $\chi^2/\text{NDF}$ : 4896.6/11

+ sign  $0.541 \pm 0.000$   $\chi^2/\text{NDF}$ : 173438.4/30

All:  $0.030 \pm 0.000$   $\chi^2/\text{NDF}$ : 23314297700963

- sign  $0.030 \pm 0.000$   $\chi^2/\text{NDF}$ : 1191644.2/30

# dit\_sam8\_4aY\_slope vs Slug



Right In: -51.888 $\pm$ 0.002  $\chi^2$ /NDF: 77585.2/16

Left Out: -48.926 $\pm$ 0.001  $\chi^2$ /NDF: 364065.3/13

Right Out: -52.684 $\pm$ 0.003  $\chi^2$ /NDF: 56125.8/18

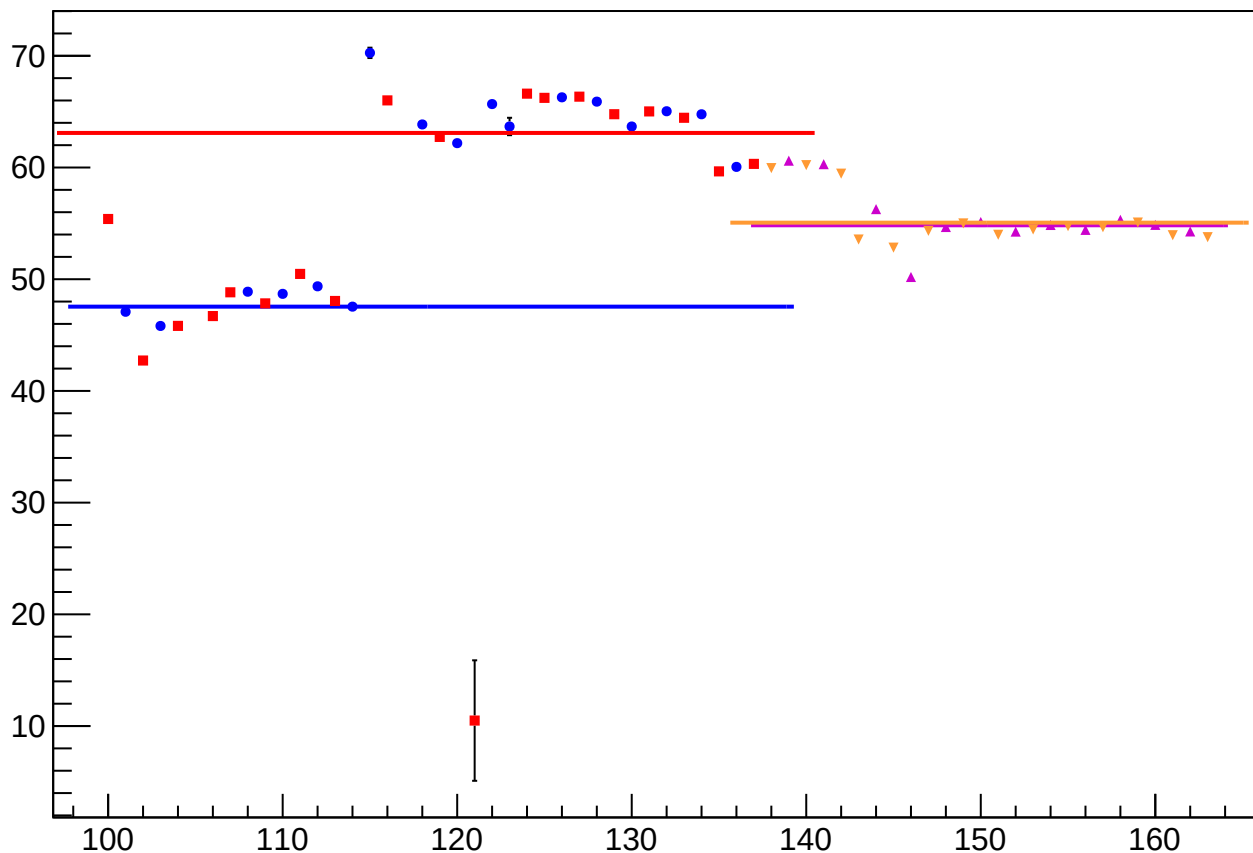
Left In: -48.922 $\pm$ 0.001  $\chi^2$ /NDF: 519723.5/11

+ sign -49.680 $\pm$ 0.001  $\chi^2$ /NDF: 1758577.2/30

All: -49.560 $\pm$ 0.001  $\chi^2$ /NDF: 4200771.9/61

- sign -49.469 $\pm$ 0.001  $\chi^2$ /NDF: 2421912.8/30

# dit\_sam8\_4eY\_slope vs Slug



Right In: 47.545+/-0.000  $\chi^2/\text{NDF}$ : 3491700.1/16

Left Out: 55.064+/-0.003  $\chi^2/\text{NDF}$ : 239345.8/13

Right Out: 63.095+/-0.007  $\chi^2/\text{NDF}$ : 333637.2/18

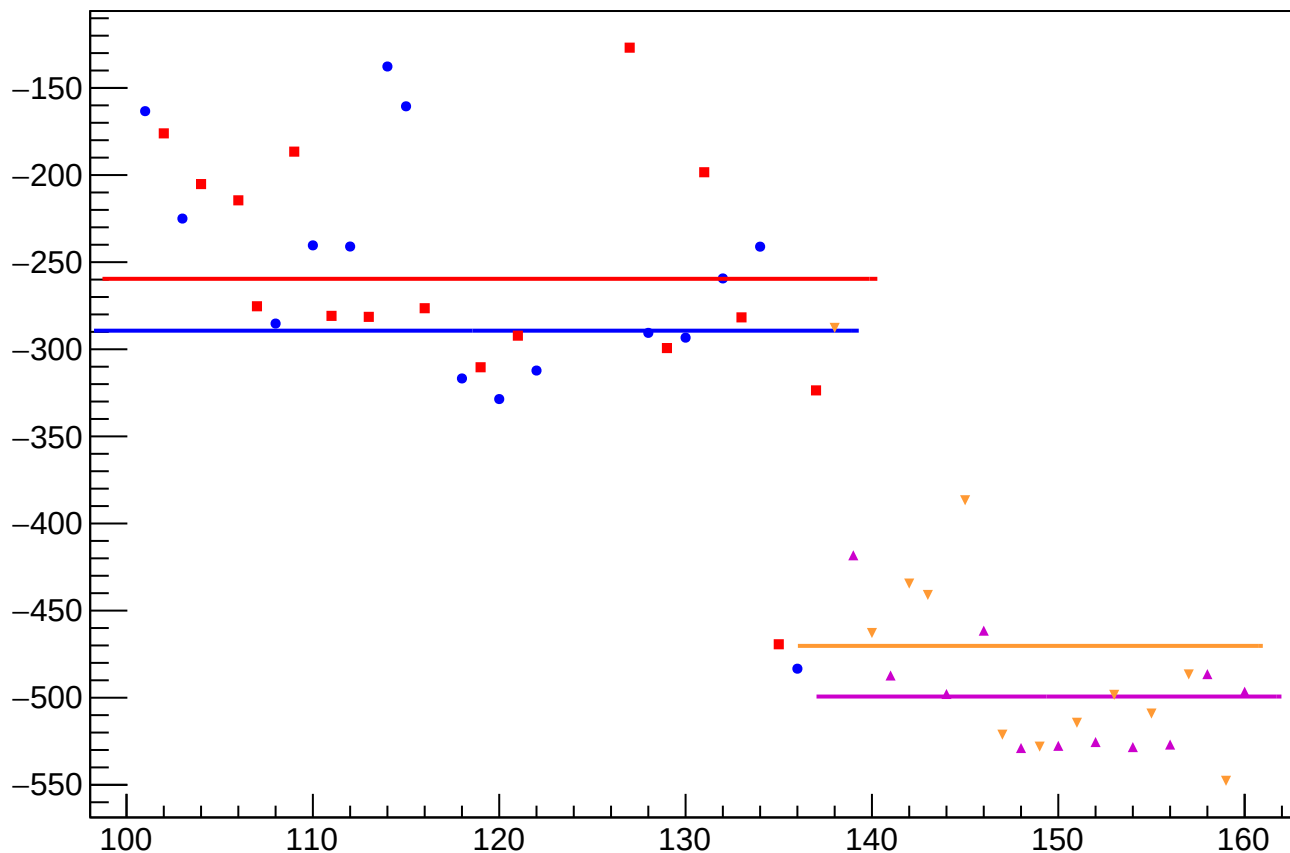
Left In: 54.829+/-0.003  $\chi^2/\text{NDF}$ : 81498.8/11

+ sign 47.545+/-0.000  $\chi^2/\text{NDF}$ : 8826154.7/30

All: 47.545+/-0.000  $\chi^2/\text{NDF}$ : 20509973.0/61

- sign 55.824+/-0.003  $\chi^2/\text{NDF}$ : 1491353.7/30

dit\_4aX\_coil1\_mean vs Slug



Right In: -289.322+/-0.000  $\chi^2/\text{NDF}$ : 5369681640484891478649585392183934976.0/14

Left Out: -470.248+/-0.000  $\chi^2/\text{NDF}$ : 4607361900635133507336893174223208448.0/11

Right Out: -259.558+/-0.000  $\chi^2/\text{NDF}$ : 4299886792692123970784563983770714112.0/15

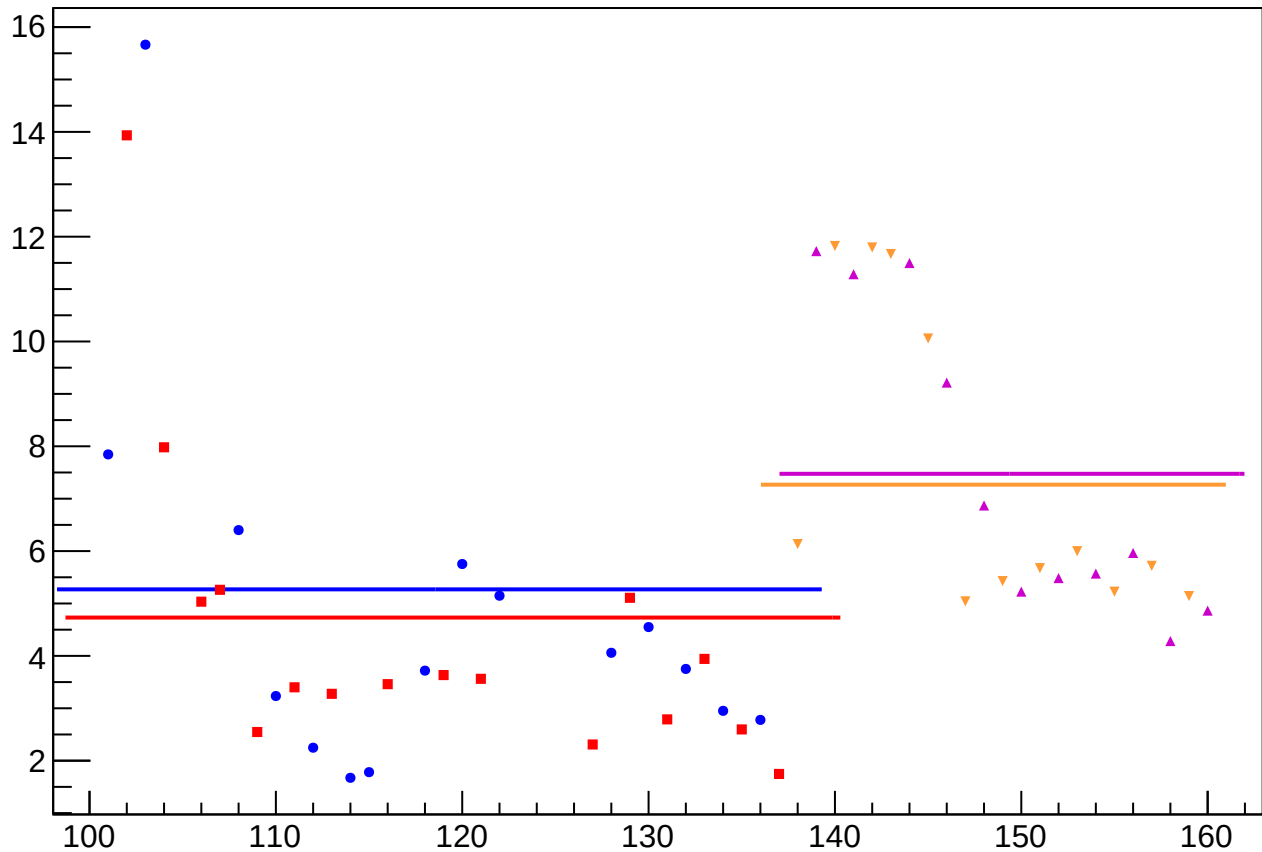
Left In: -499.323+/-0.000  $\chi^2/\text{NDF}$ : 1018789461606644410107221718465511424.0/10

+ sign -395.267+/-0.000  $\chi^2/\text{NDF}$ : 22417121738902

All: -397.050+/-0.000  $\chi^2/\text{NDF}$ : 50014681682

- sign -398.805+/-0.000  $\chi^2/\text{NDF}$ : 275876765804894

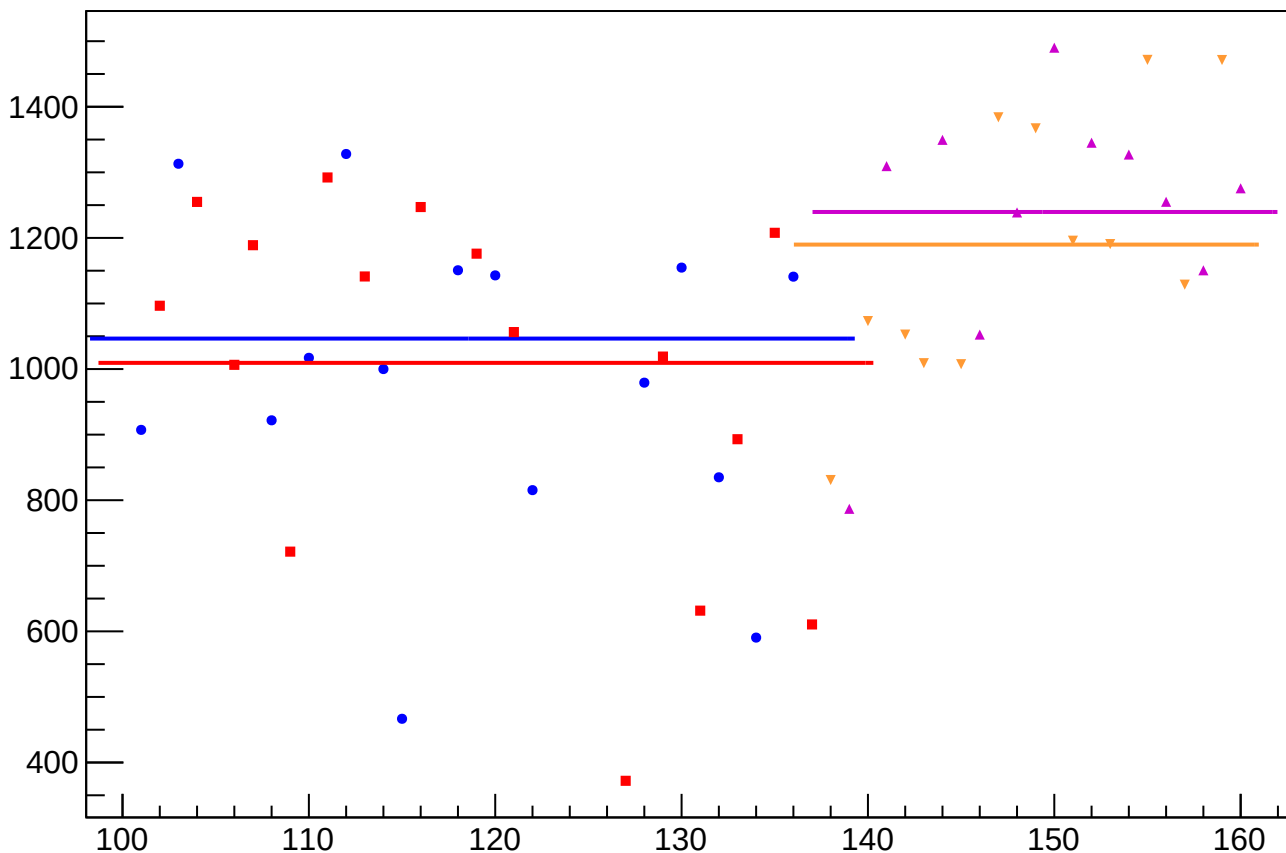
# dit\_4aX\_coil1\_err\_mean vs Slug



Right In: 5.270 $\pm$ 0.000  $\chi^2$ /NDF: 8709683292123798330550906790084608.0/14  
 Left Out: 7.267 $\pm$ 0.000  $\chi^2$ /NDF: 6561845891361438099452945363894272.0/11  
 Right Out: 4.732 $\pm$ 0.000  $\chi^2$ /NDF: 6856893072575211562802281426452480.0/15  
 Left In: 7.475 $\pm$ 0.000  $\chi^2$ /NDF: 7057812139399579538870244550377472.0/10



dit\_4aX\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

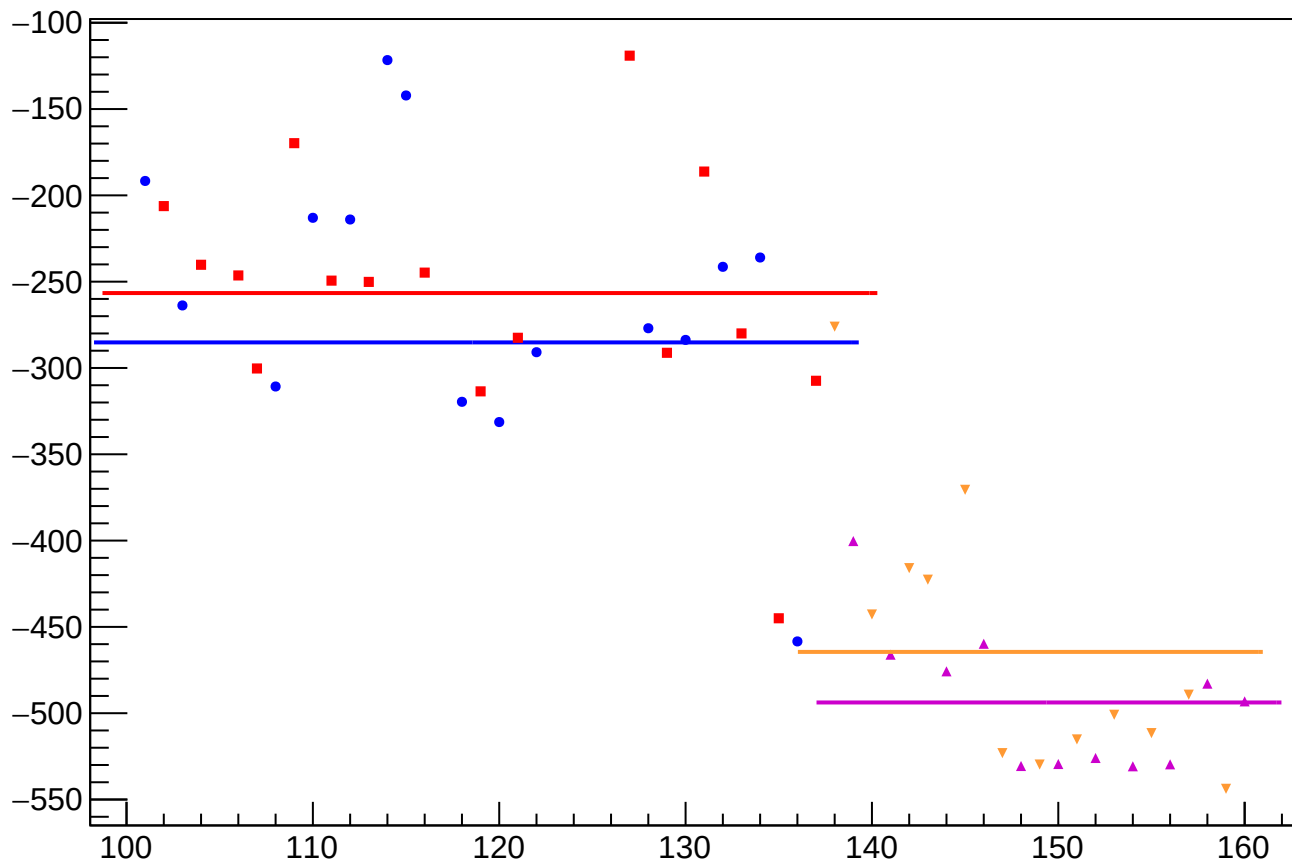
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

# dit\_4eX\_coil1\_mean vs Slug



Right In: -285.187+/-0.000  $\chi^2/\text{NDF}$ : 4479585262853549838092521921291747328.0/14

Left Out: -464.487+/-0.000  $\chi^2/\text{NDF}$ : 5412512273744603577474879660526403584.0/11

Right Out: -256.599+/-0.000  $\chi^2/\text{NDF}$ : 3648271535971039165952602563191767040.0/15

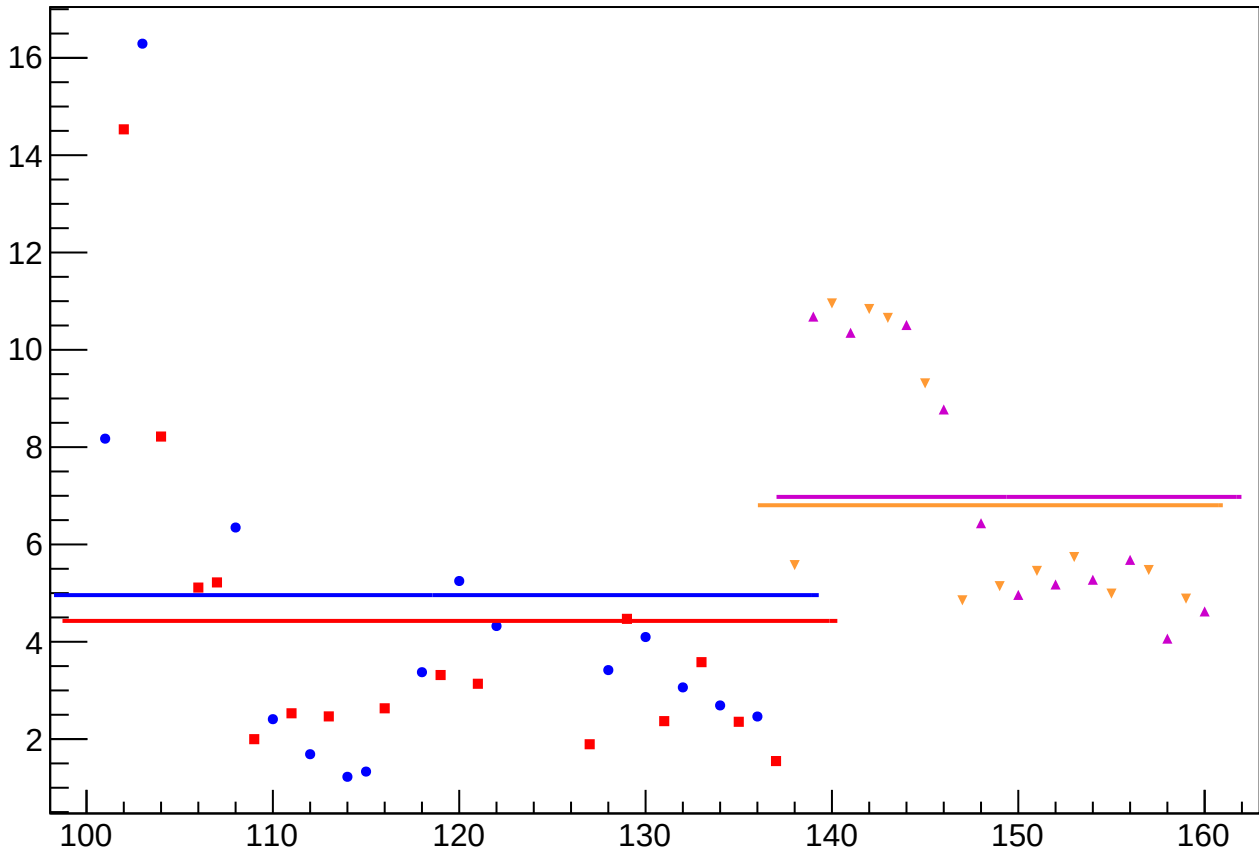
Left In: -493.780+/-0.000  $\chi^2/\text{NDF}$ : 1451794731277142230901460532226686976.0/10

+ sign -390.179+/-0.000  $\chi^2/\text{NDF}$ : 22109661045949

All: -392.279+/-0.000  $\chi^2/\text{NDF}$ : 49014873781

- sign -394.346+/-0.000  $\chi^2/\text{NDF}$ : 268915126522349

dit\_4eX\_coil1\_err\_mean vs Slug



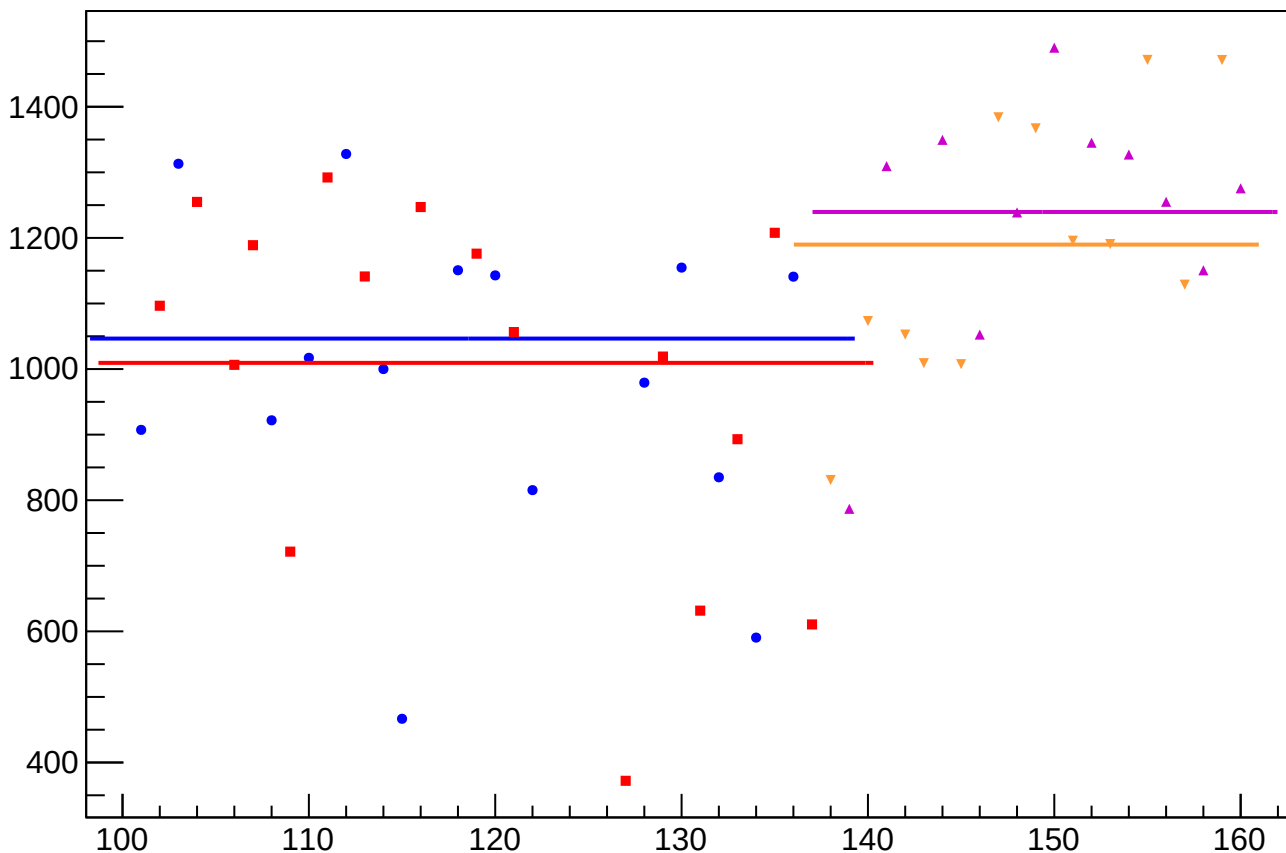
Right In: 4.959+/-0.000  $\chi^2/\text{NDF}$ : 10465467057143371817371681641463808.0/14

Left Out: 6.806+/-0.000  $\chi^2/\text{NDF}$ : 5243464744446974431083540143669248.0/11

Right Out: 4.429+/-0.000  $\chi^2/\text{NDF}$ : 8371440400334524571131796772618240.0/15

Left In: 6.978+/-0.000  $\chi^2/\text{NDF}$ : 5622697014277754941158413236699136.0/10

dit\_4eX\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

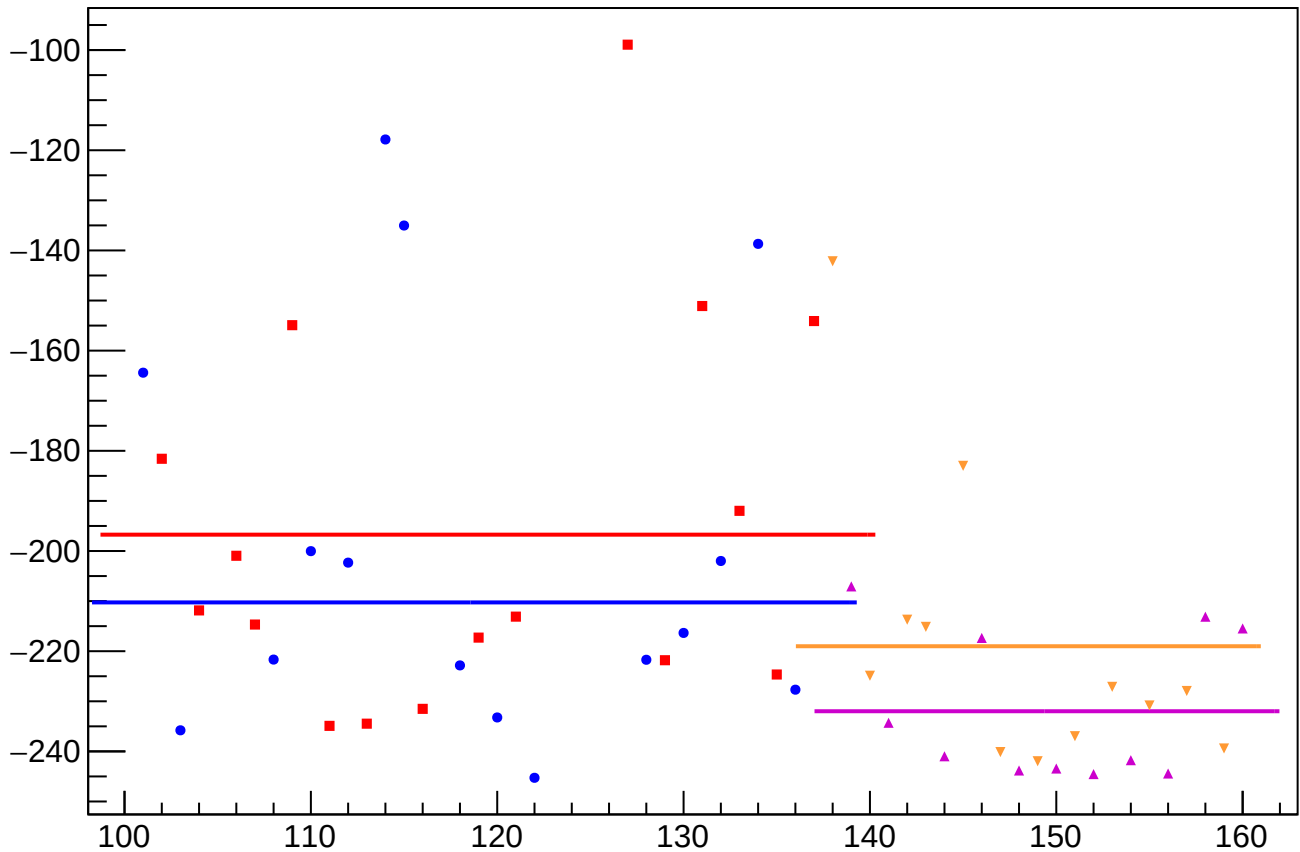
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

dit\_11X12X\_coil1\_mean vs Slug



Right In: -210.261+/-0.000  $\chi^2/\text{NDF}$ : 567711076568068409192467700494893056.0/14

Left Out: -219.010+/-0.000  $\chi^2/\text{NDF}$ : 731132234342099268900131615977504768.0/11

Right Out: -196.736+/-0.000  $\chi^2/\text{NDF}$ : 909588895093044840633640514790359040.0/15

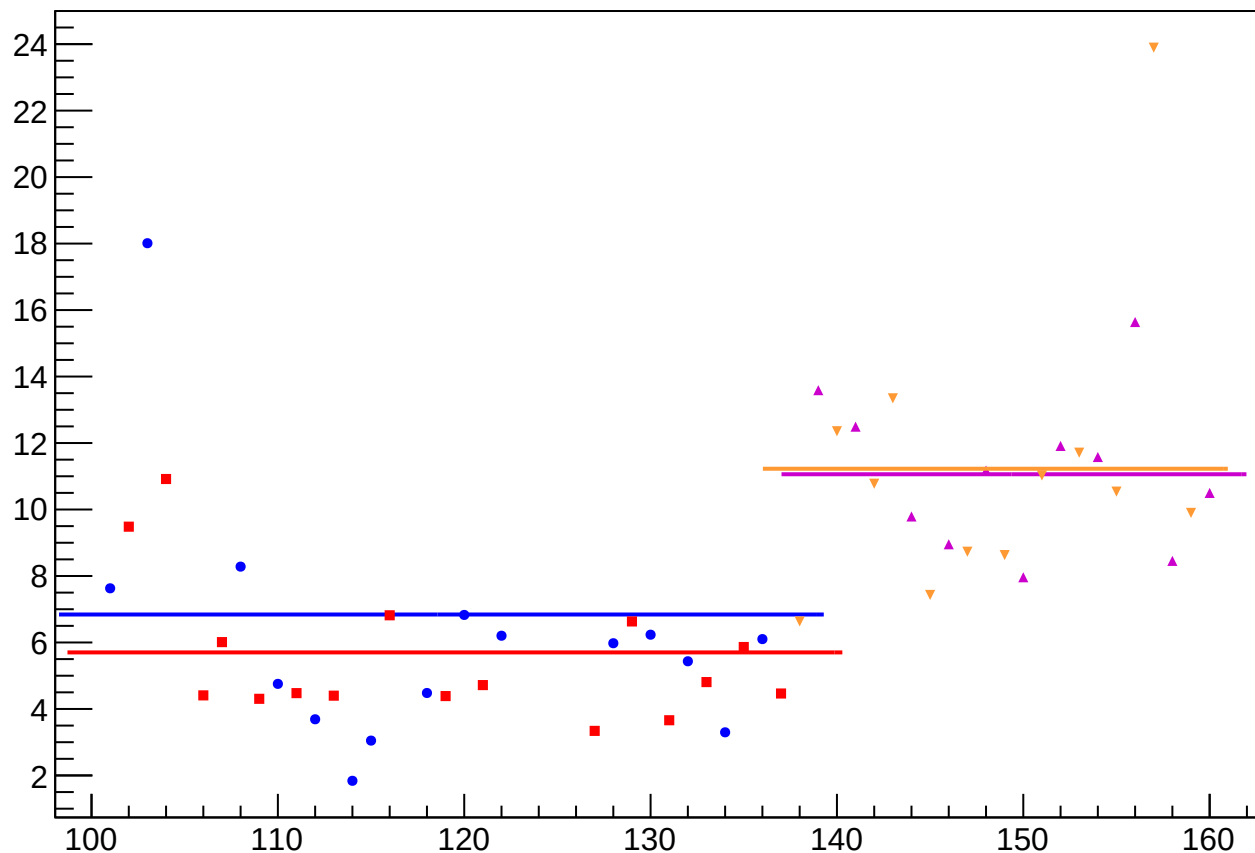
Left In: -231.985+/-0.000  $\chi^2/\text{NDF}$ : 182992027280401463139065105290887168.0/10

+ sign -215.384+/-0.000  $\chi^2/\text{NDF}$ : 13279306156099

All: -216.303+/-0.000  $\chi^2/\text{NDF}$ : 29044263069

- sign -217.208+/-0.000  $\chi^2/\text{NDF}$ : 157387232918828

dit\_11X12X\_coil1\_err\_mean vs Slug



Right In: 6.842+/-0.000

$\chi^2/\text{NDF}$ : 9355934166823324467316647620771840.0/14

Left Out: 11.226+/-0.000

$\chi^2/\text{NDF}$ : 17157831728505810554543577208193024.0/11

Right Out: 5.701+/-0.000

$\chi^2/\text{NDF}$ : 3174693398300953393137731791486976.0/15

Left In: 11.061+/-0.000

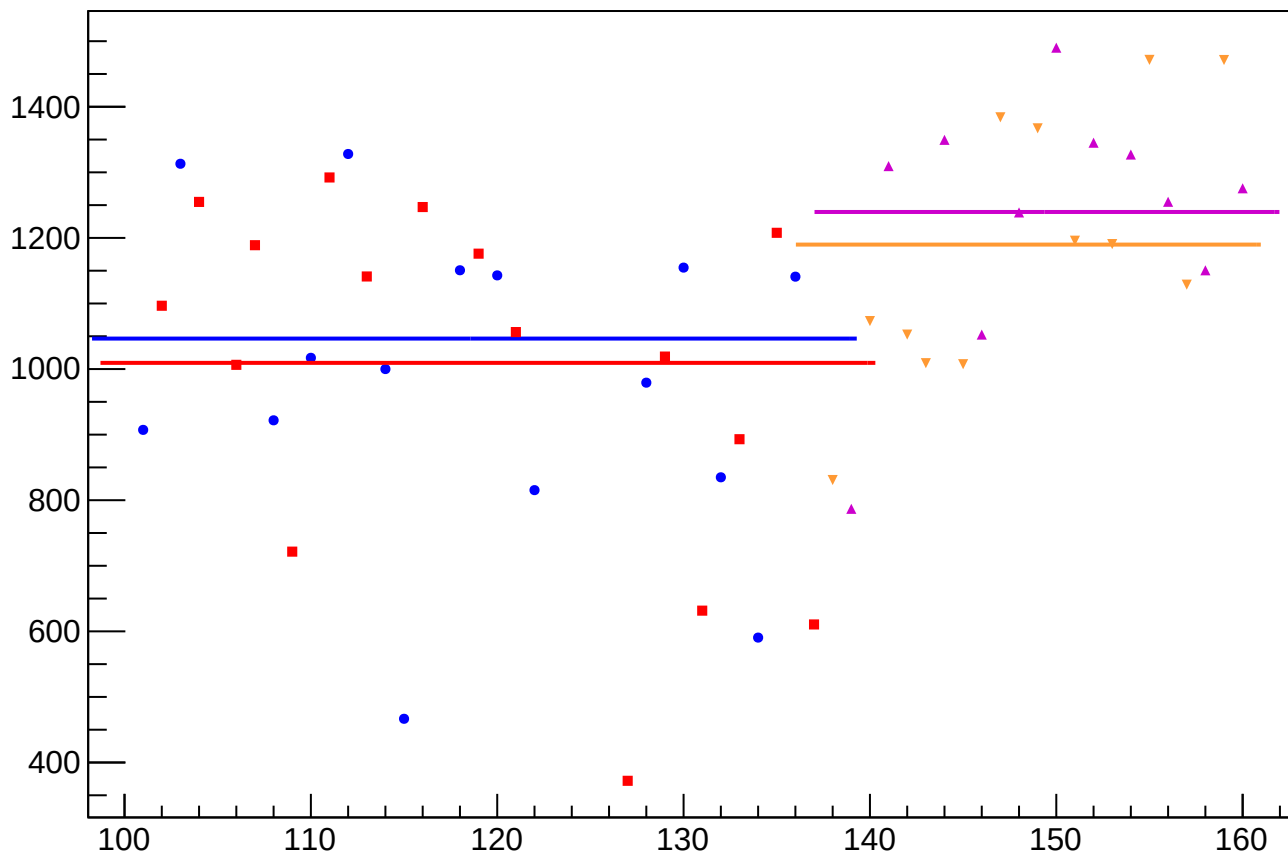
$\chi^2/\text{NDF}$ : 4417559387784954400311933713514496.0/10

+ sign 9.409+/-0.000  $\chi^2/\text{NDF}$ : 33820545857638071

All: 9.109+/-0.000  $\chi^2/\text{NDF}$ : 52820169055963

- sign 8.814+/-0.000  $\chi^2/\text{NDF}$ : 18719955384548476

dit\_11X12X\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

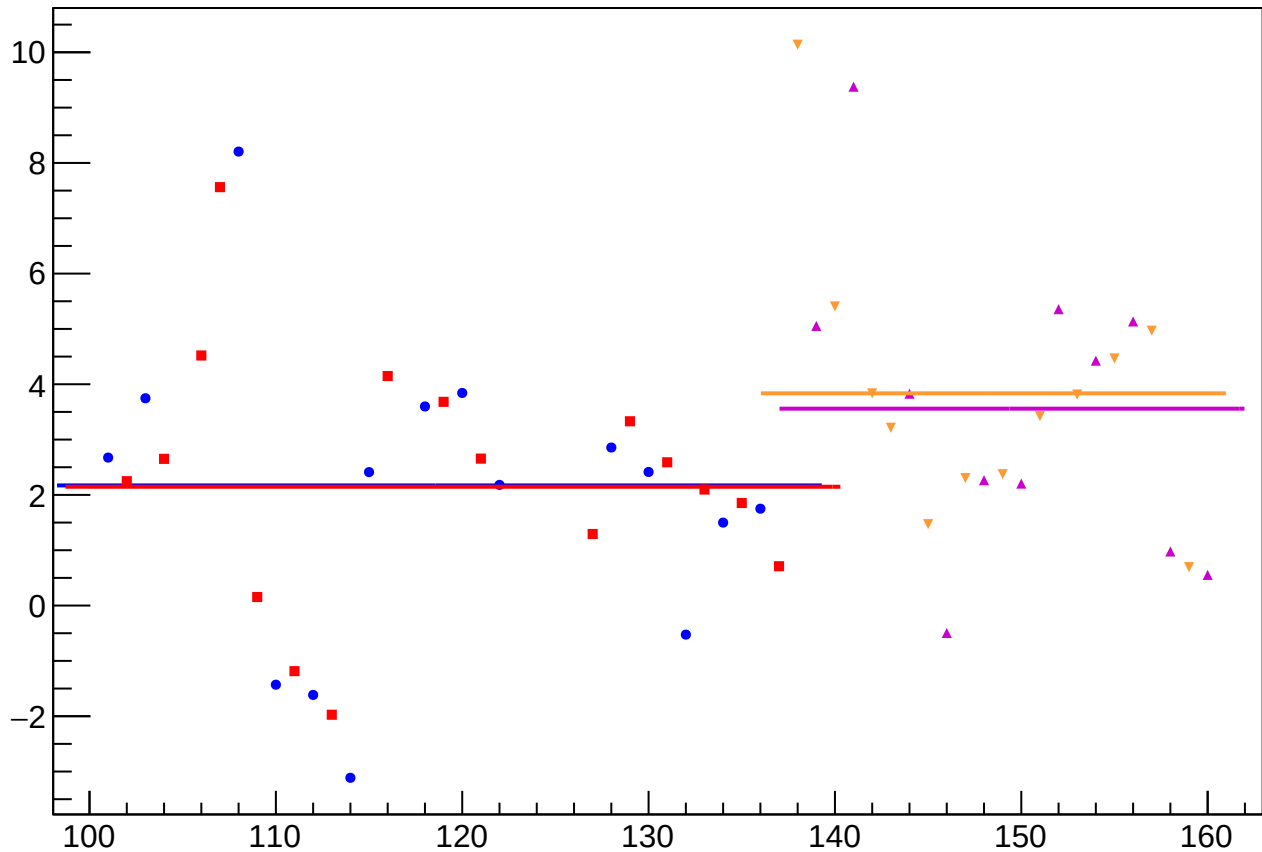
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

# dit\_4aY\_coil1\_mean vs Slug

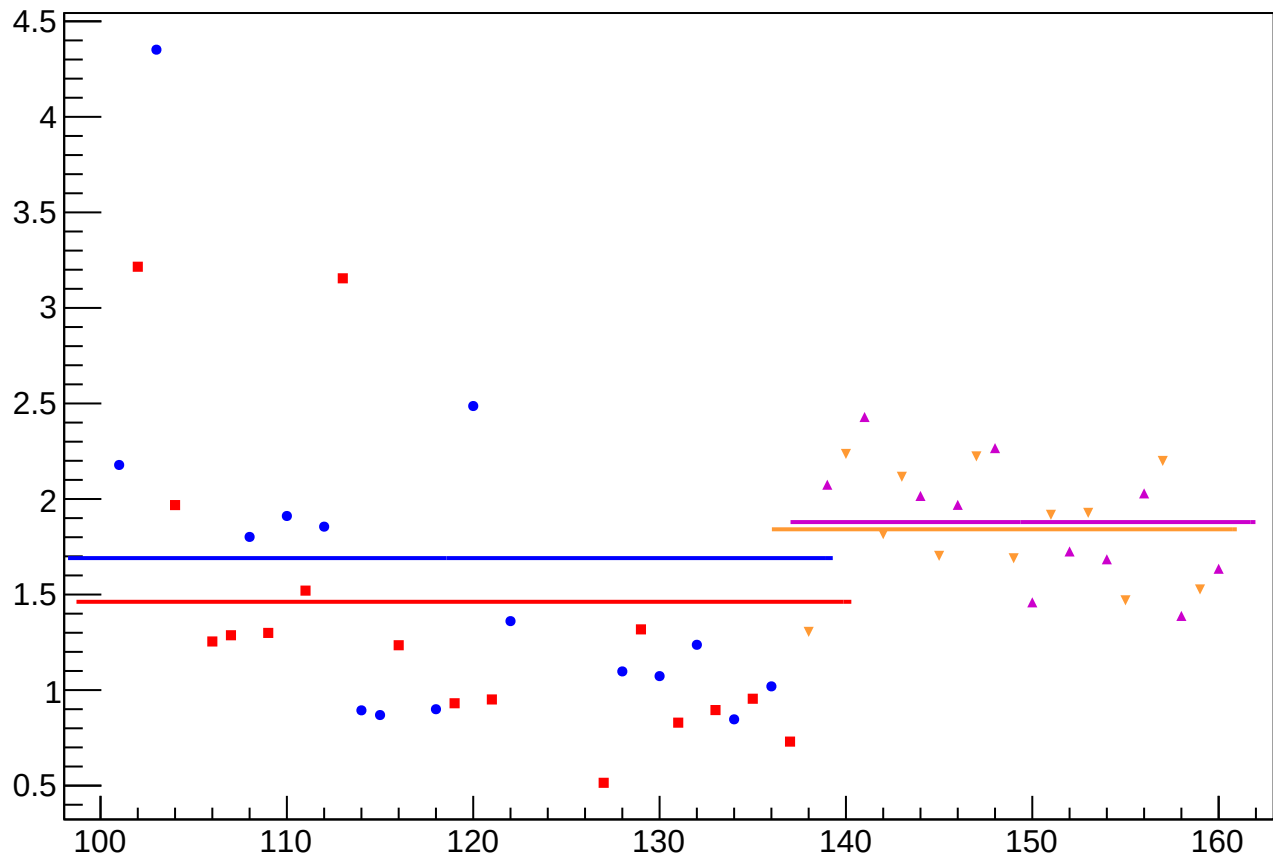


Right In: 2.171+/-0.000  $\chi^2/\text{NDF}$ : 3599819246909975678410499691642880.0/14  
 Left Out: 3.836+/-0.000  $\chi^2/\text{NDF}$ : 5077142493205652960507998024761344.0/11  
 Right Out: 2.148+/-0.000  $\chi^2/\text{NDF}$ : 3093887336239378959606321931878400.0/15  
 Left In: 3.559+/-0.000  $\chi^2/\text{NDF}$ : 6492667345109962540652165758713856.0/10

+ sign 3.146+/-0.000  $\chi^2/\text{NDF}$ : 97297479279386296  
 All: 3.056+/-0.000  $\chi^2/\text{NDF}$ : 2011291704236  
 - sign 2.967+/-0.000  $\chi^2/\text{NDF}$ : 10357923461678180

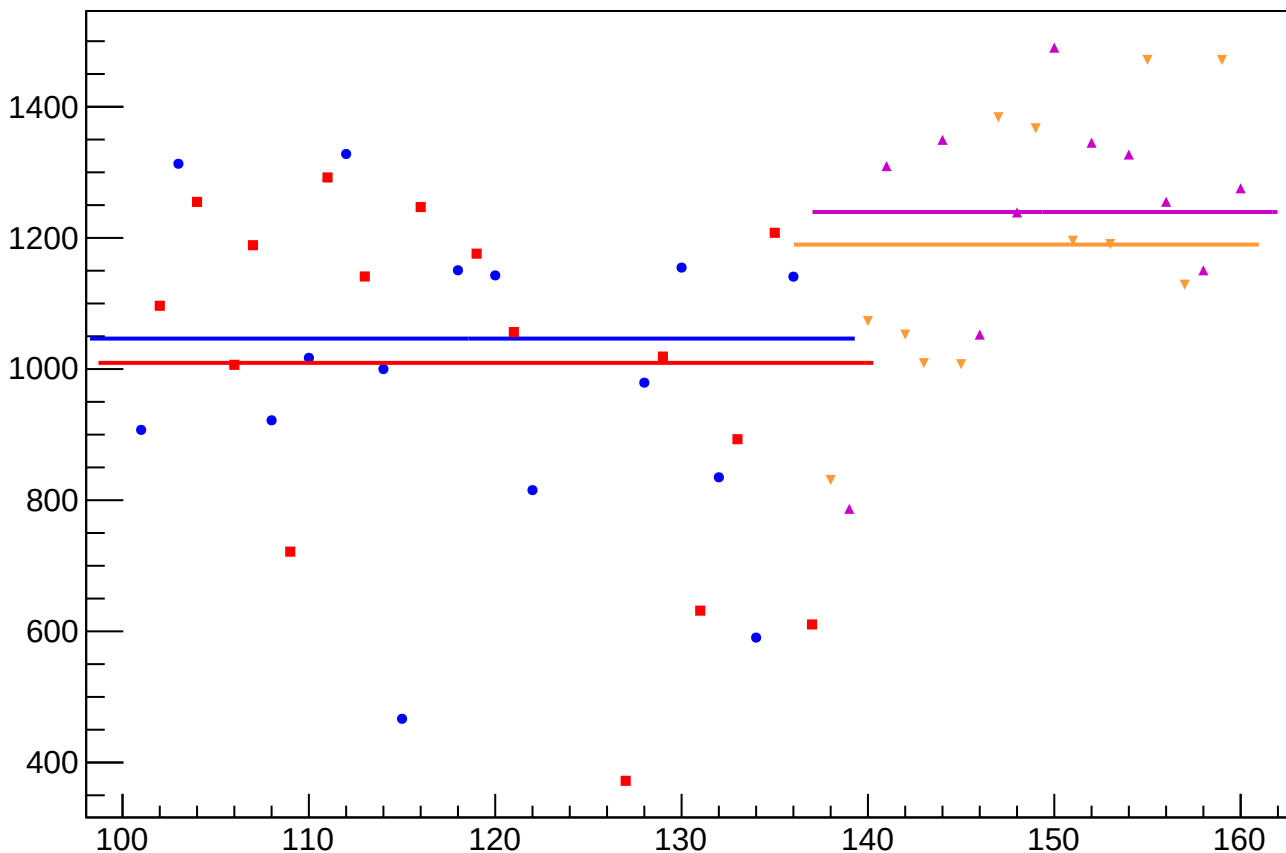


dit\_4aY\_coil1\_err\_mean vs Slug



Right In:  $1.691 \pm 0.000$   $\chi^2/\text{NDF}$ : 612163393317609859674079412355072.0/14  
 Left Out:  $1.841 \pm 0.000$   $\chi^2/\text{NDF}$ : 85338663213371601399207847526400.0/11  
 Right Out:  $1.462 \pm 0.000$   $\chi^2/\text{NDF}$ : 444384511662519040022371754835968.0/15  
 Left In:  $1.879 \pm 0.000$   $\chi^2/\text{NDF}$ : 90968052268112309617342982127616.0/10

dit\_4aY\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

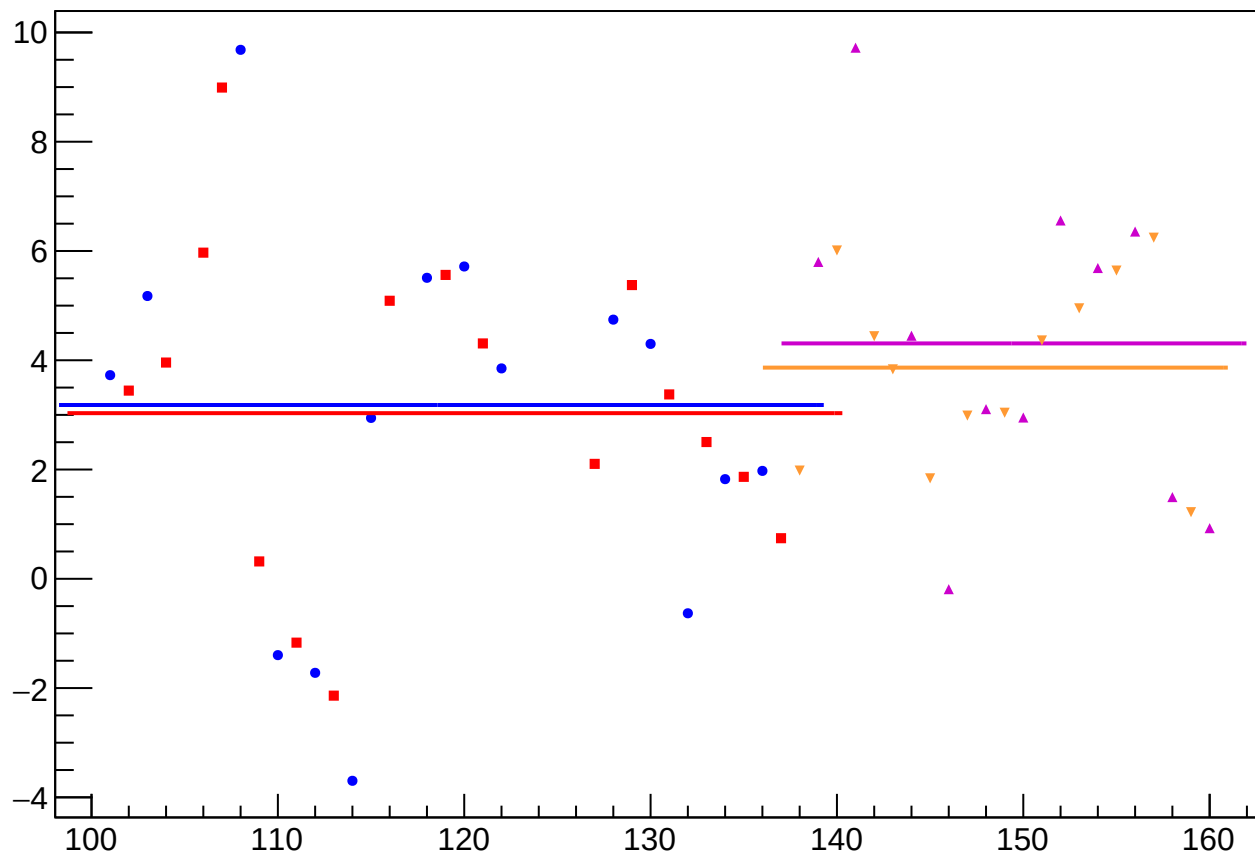
Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800  
 All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607  
 - sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

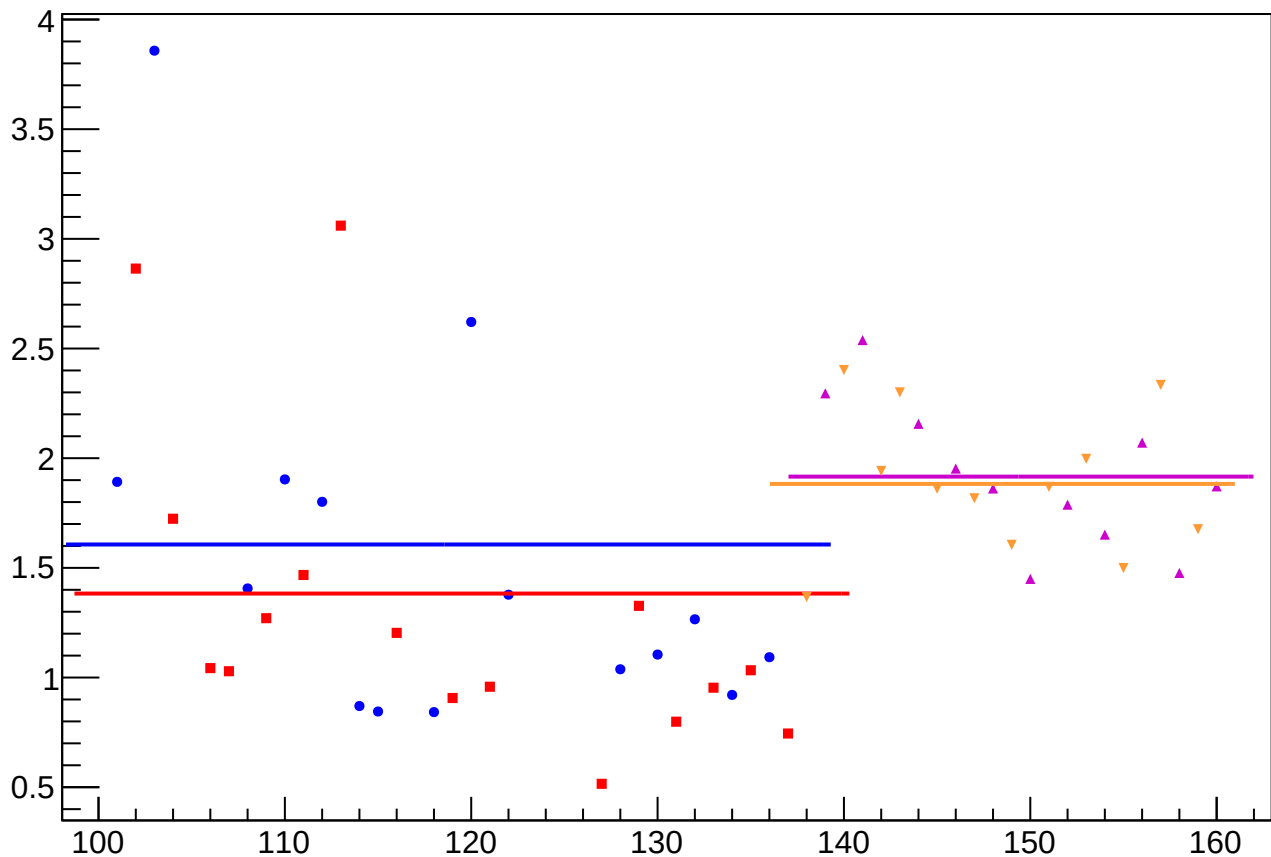
dit\_4eY\_coil1\_mean vs Slug



|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Right In: 3.181+/-0.000  | $\chi^2/\text{NDF}$ : 5833303227868252617704566394191872.0/14 |
| Left Out: 3.865+/-0.000  | $\chi^2/\text{NDF}$ : 2498021792424542817214204578103296.0/11 |
| Right Out: 3.032+/-0.000 | $\chi^2/\text{NDF}$ : 4937209831371793945496546833334272.0/15 |
| Left In: 4.308+/-0.000   | $\chi^2/\text{NDF}$ : 7073495667694280351803168107003904.0/10 |

+ sign 3.582+/-0.000  $\chi^2/\text{NDF}$ : 85092080259822293  
 All: 3.678+/-0.000  $\chi^2/\text{NDF}$ : 21180159675612  
 - sign 3.773+/-0.000  $\chi^2/\text{NDF}$ : 12642039557663055

dit\_4eY\_coil1\_err\_mean vs Slug



Right In: 1.607+/-0.000  $\chi^2/\text{NDF}$ : 460949628640148184181205735833600.0/14

Left Out: 1.883+/-0.000  $\chi^2/\text{NDF}$ : 93981074591902245168022313500672.0/11

Right Out: 1.383+/-0.000  $\chi^2/\text{NDF}$ : 358348897016286200957650337792000.0/15

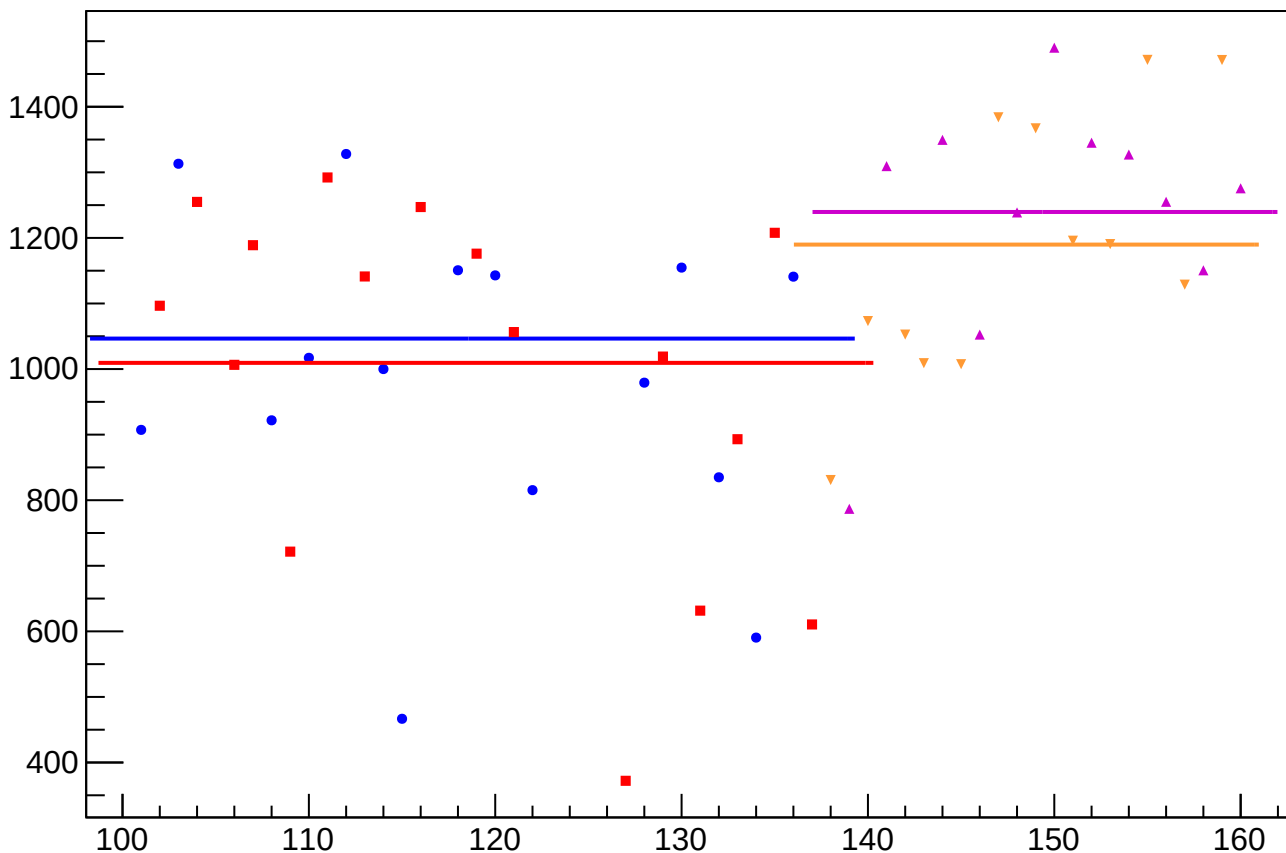
Left In: 1.916+/-0.000  $\chi^2/\text{NDF}$ : 95276515809016209875699691945984.0/10

+ sign 1.768+/-0.000  $\chi^2/\text{NDF}$ : 58390522381555336

All: 1.730+/-0.000  $\chi^2/\text{NDF}$ : 11521784061619

- sign 1.693+/-0.000  $\chi^2/\text{NDF}$ : 56374596109463105

dit\_4eY\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

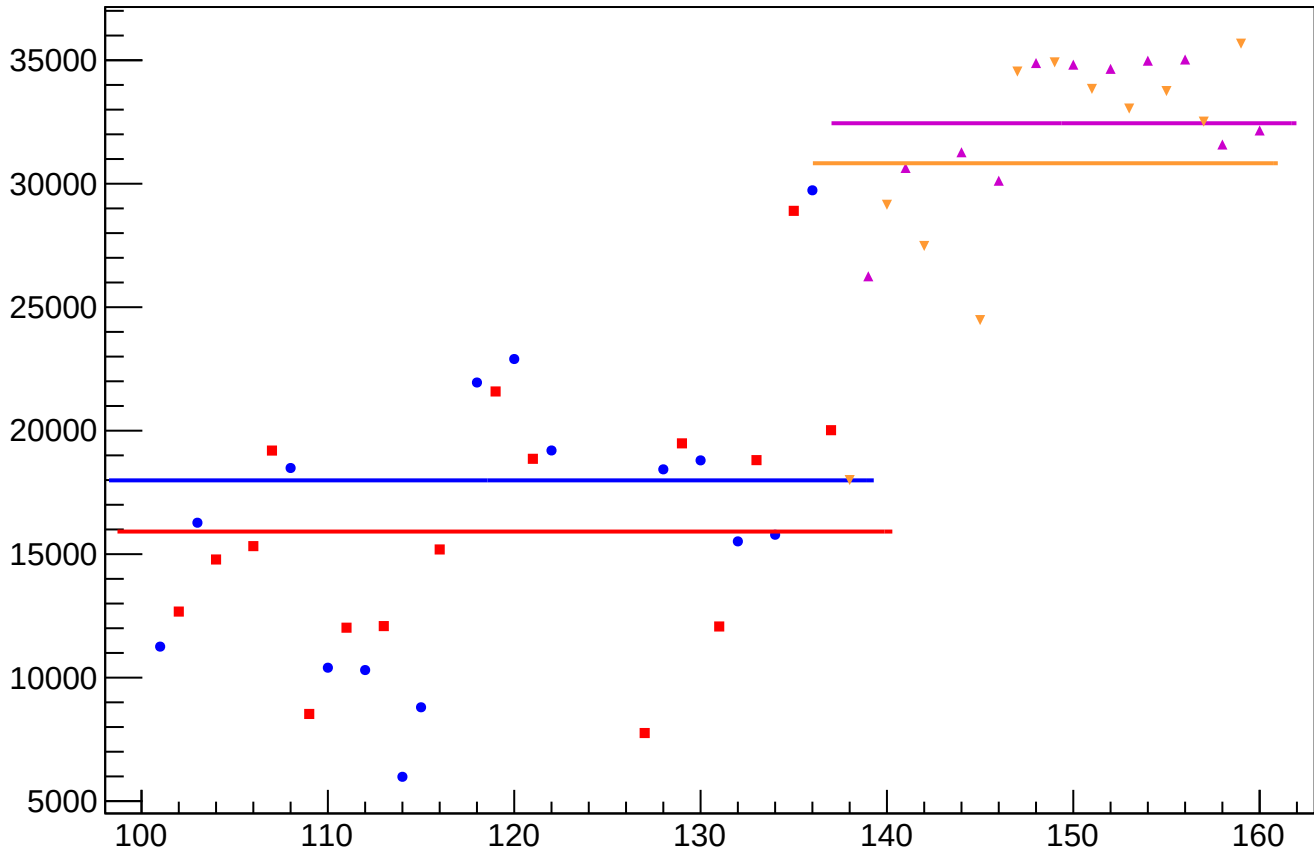
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

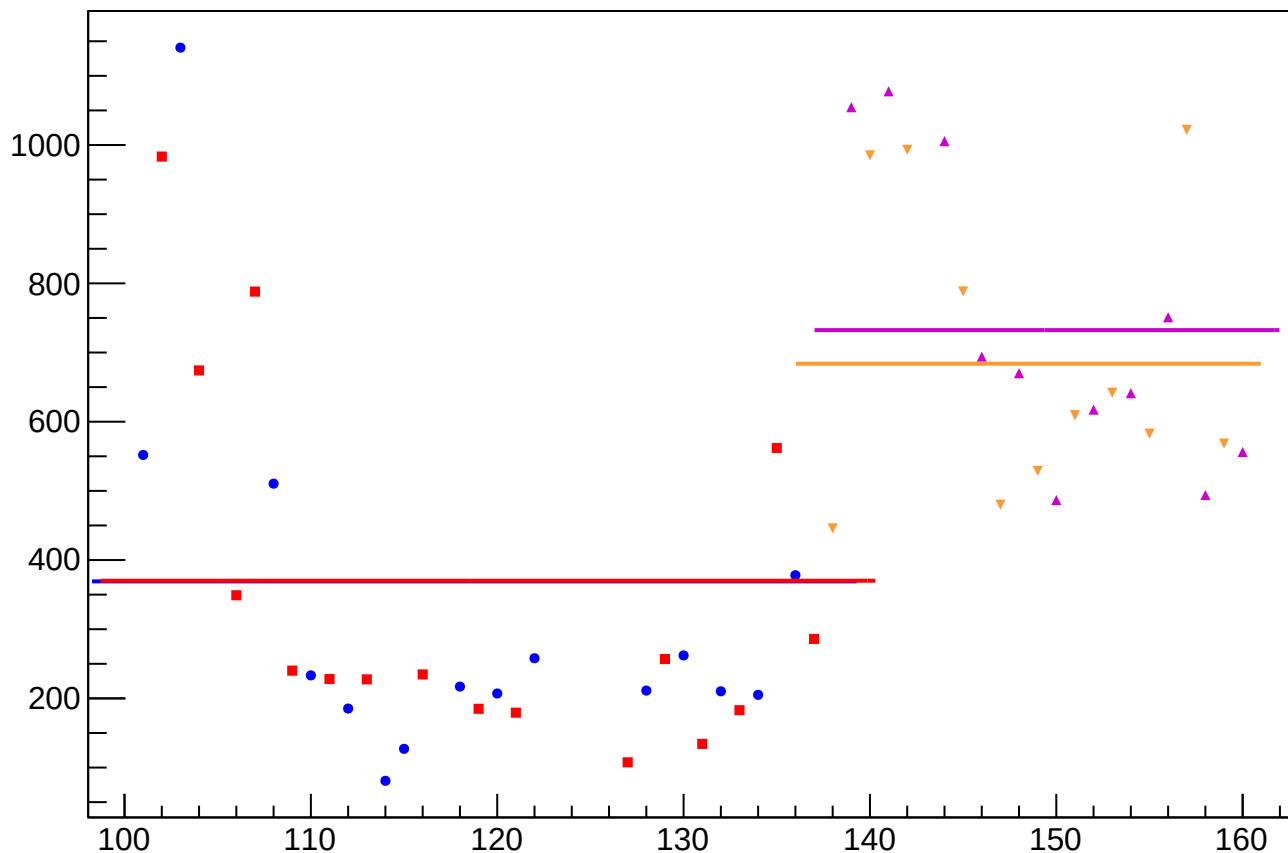
dit\_usl\_coil1\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 17988.185+/-0.000  | $\chi^2/\text{NDF}$ : 24815111809984217103544001237552952508416.0/14 |
| Left Out: 30828.996+/-0.000  | $\chi^2/\text{NDF}$ : 23225941804061934913195205321671126810624.0/10 |
| Right Out: 15915.227+/-0.000 | $\chi^2/\text{NDF}$ : 19954189674705952707042287416087223992320.0/15 |
| Left In: 32448.675+/-0.000   | $\chi^2/\text{NDF}$ : 6566176061380629796456552080625585094656.0/10  |

+ sign 25269.499+/-0.000  $\chi^2/\text{NDF}$ : 1087212427232  
 All: 25397.091+/-0.000  $\chi^2/\text{NDF}$ : 2411788938  
 - sign 25517.305+/-0.000  $\chi^2/\text{NDF}$ : 1324102555101

dit\_usl\_coil1\_err\_mean vs Slug



Right In: 369.169+/-0.000  $\chi^2/\text{NDF}$ : 48053036789565485994195833341370957824.0/14

+ sign 547.589+/-0.000  $\chi^2/\text{NDF}$ : 118377118288294

Left Out: 683.818+/-0.000  $\chi^2/\text{NDF}$ : 33889213327859325358647069977975193600.0/10

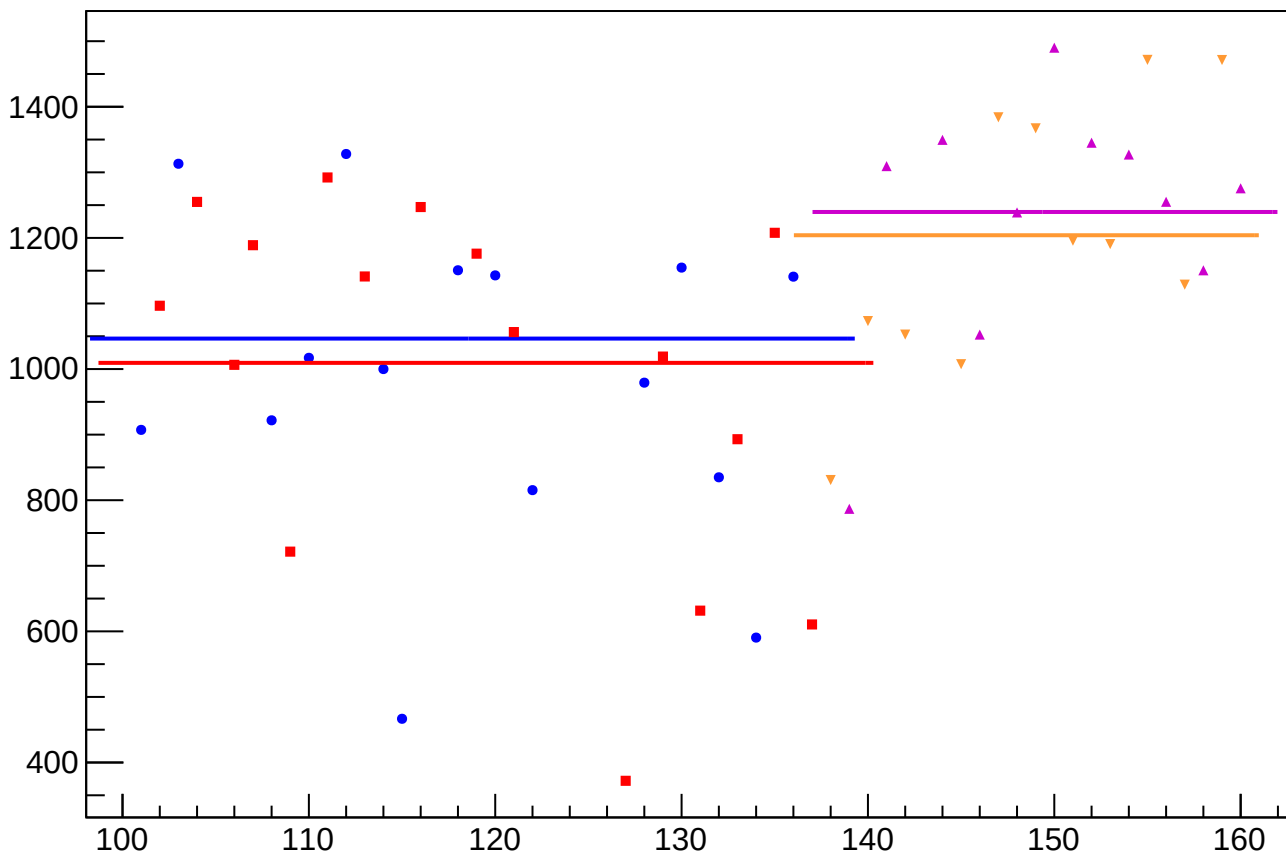
All: 564.543+/-0.000  $\chi^2/\text{NDF}$ : 258223641190

Right Out: 370.091+/-0.000  $\chi^2/\text{NDF}$ : 48214462907052107543037037125316902912.0/15

- sign 580.516+/-0.000  $\chi^2/\text{NDF}$ : 139009735968020

Left In: 732.414+/-0.000  $\chi^2/\text{NDF}$ : 39942105840529115736569596950263889920.0/10

dit\_usl\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

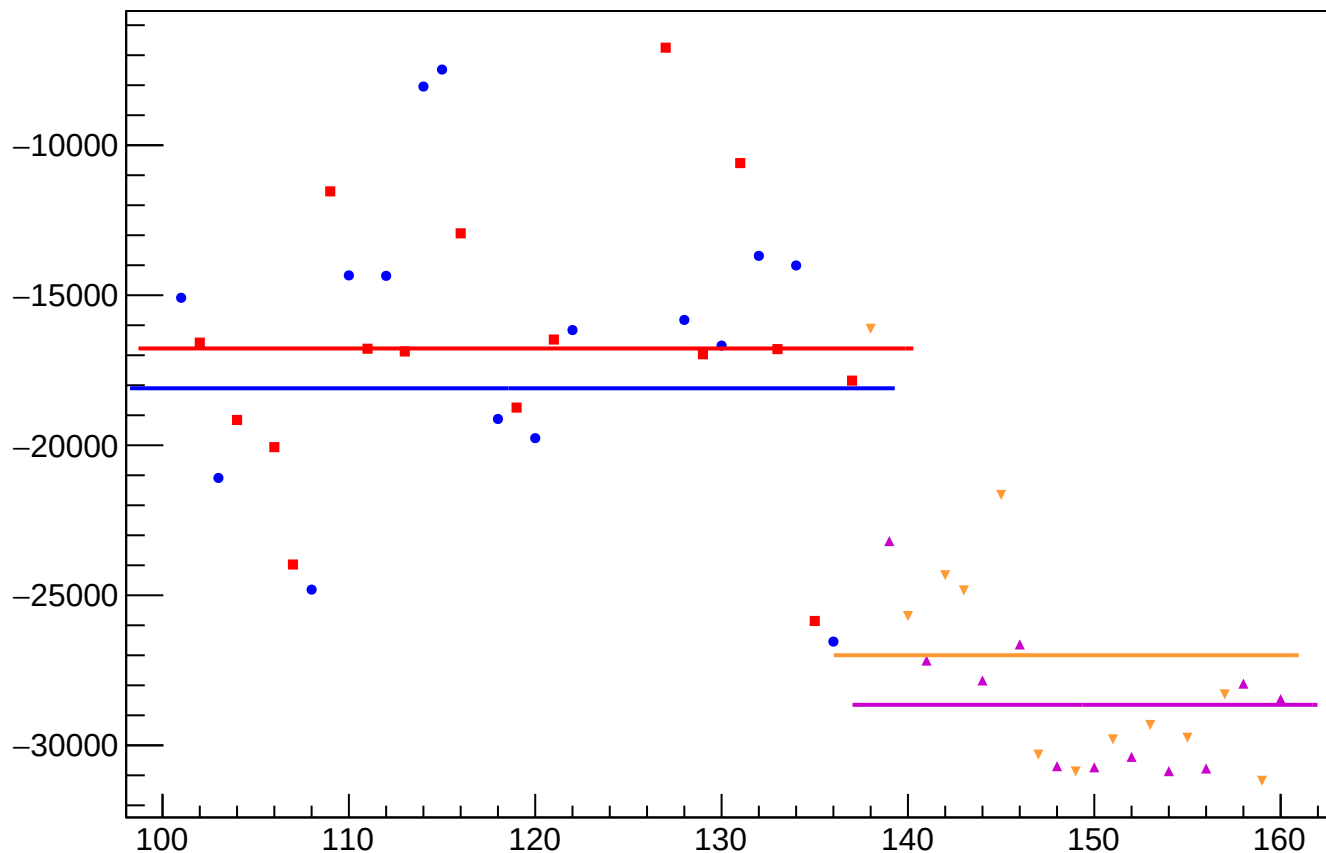
Left Out: 1204.078+/-0.000  $\chi^2/\text{NDF}$ : 33123375714267646220347434218144399360.0/10

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

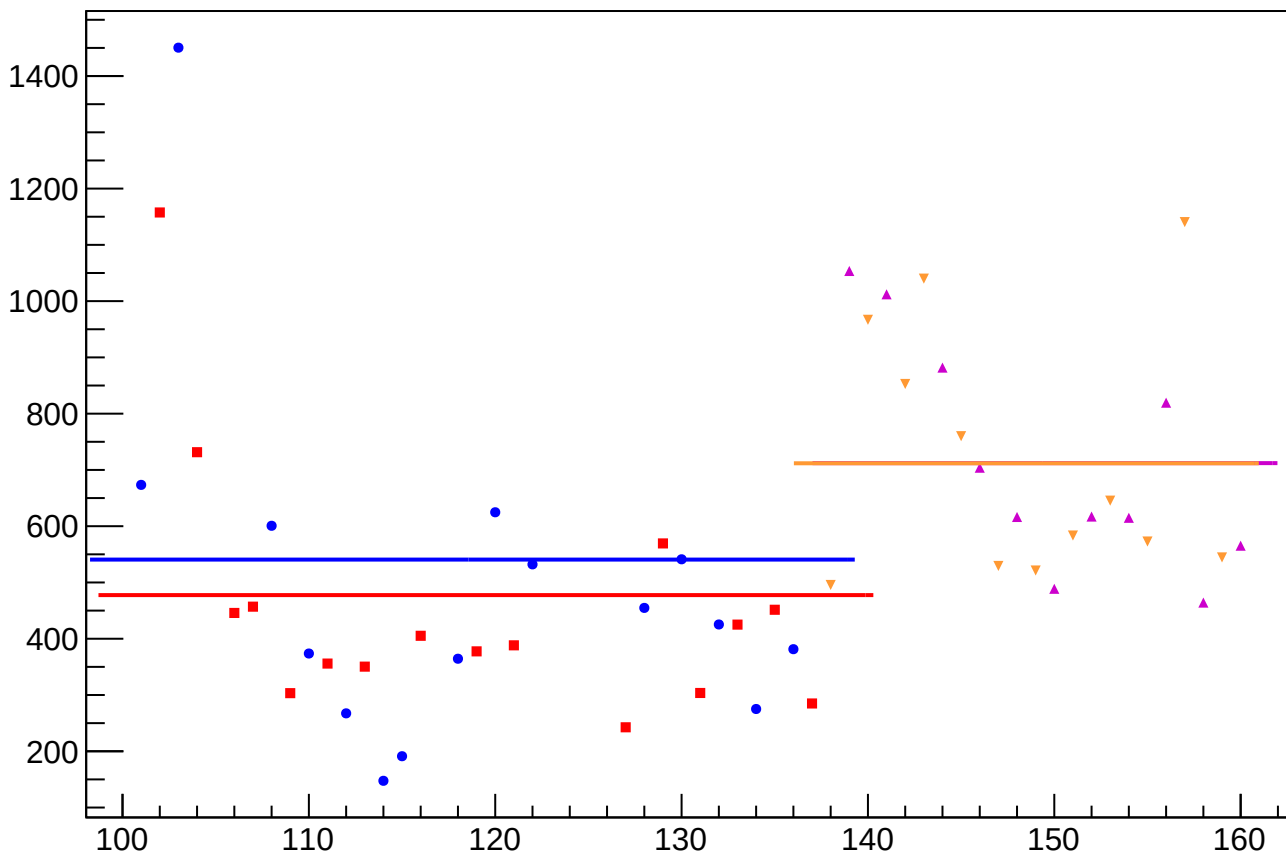


dit\_usr\_coil1\_mean vs Slug



Right In: -18100.637+/-0.000  $\chi^2/\text{NDF}$ : 14634967546173586967632040765428699496448.0/14  
 Left In: -28650.410+/-0.000  $\chi^2/\text{NDF}$ : 4838827535981080826725947474344765554688.0/10  
 Right Out: -16773.604+/-0.000  $\chi^2/\text{NDF}$ : 14234547931135812277474342886568366178304.0/15  
 Left Out: -26996.716+/-0.000  $\chi^2/\text{NDF}$ : 17646333216214404420096394486681509560320.0/11  
 All: -23492.010+/-0.000  $\chi^2/\text{NDF}$ : 136175733  
 + sign -23309.899+/-0.000  $\chi^2/\text{NDF}$ : 623572604420  
 - sign -23671.259+/-0.000  $\chi^2/\text{NDF}$ : 7371541854107

dit\_usr\_coil1\_err\_mean vs Slug



Right In: 540.663+/-0.000  $\chi^2/\text{NDF}$ : 64546819695986774721678785082975846400.0/14

Left Out: 711.811+/-0.000  $\chi^2/\text{NDF}$ : 42886755103535989888278439443042402304.0/11

Right Out: 477.546+/-0.000  $\chi^2/\text{NDF}$ : 38798306504296954461537116809760604160.0/15

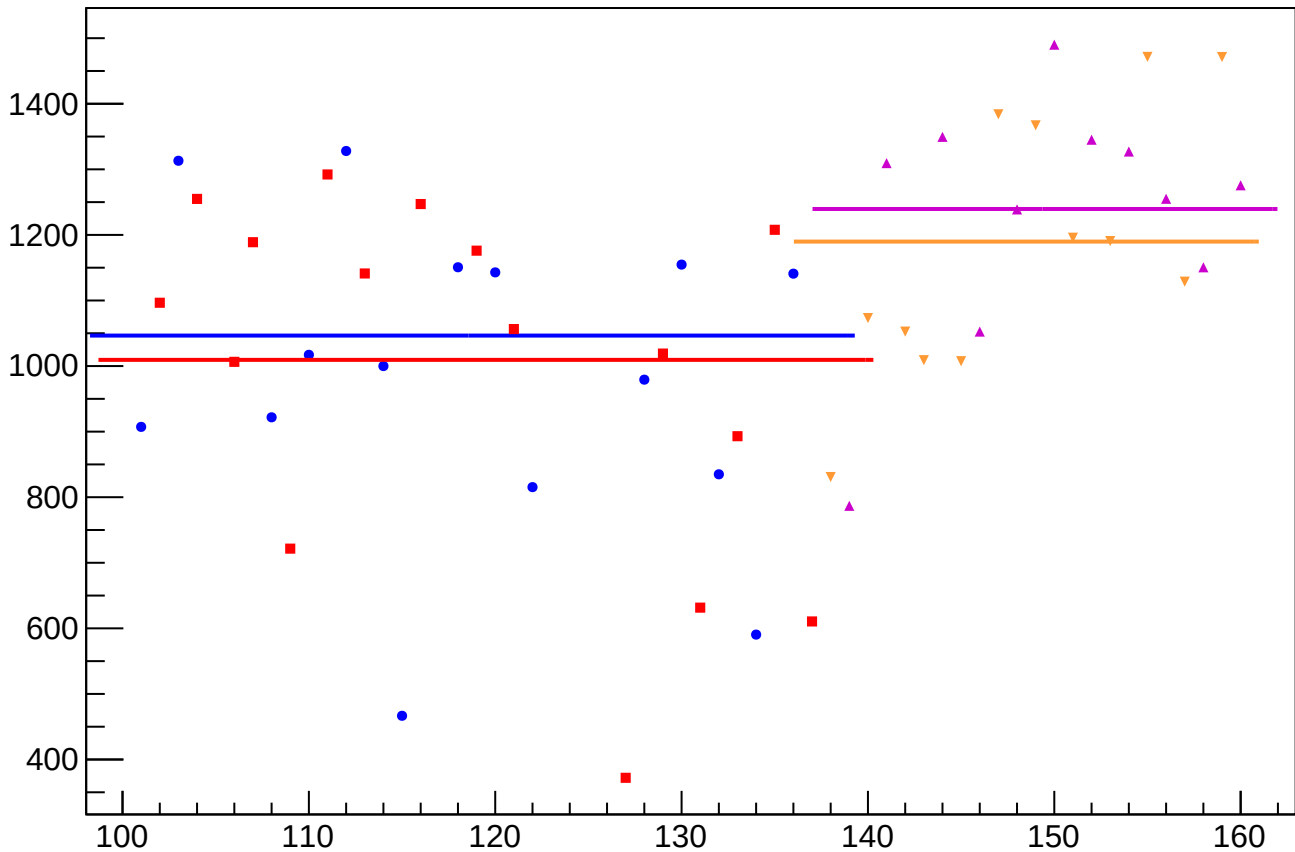
Left In: 712.092+/-0.000  $\chi^2/\text{NDF}$ : 34092045920503284936427855101460217856.0/10

+ sign 640.881+/-0.000  $\chi^2/\text{NDF}$ : 118565397303067

All: 627.215+/-0.000  $\chi^2/\text{NDF}$ : 213346191589

- sign 613.763+/-0.000  $\chi^2/\text{NDF}$ : 942003984332138

dit\_usr\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

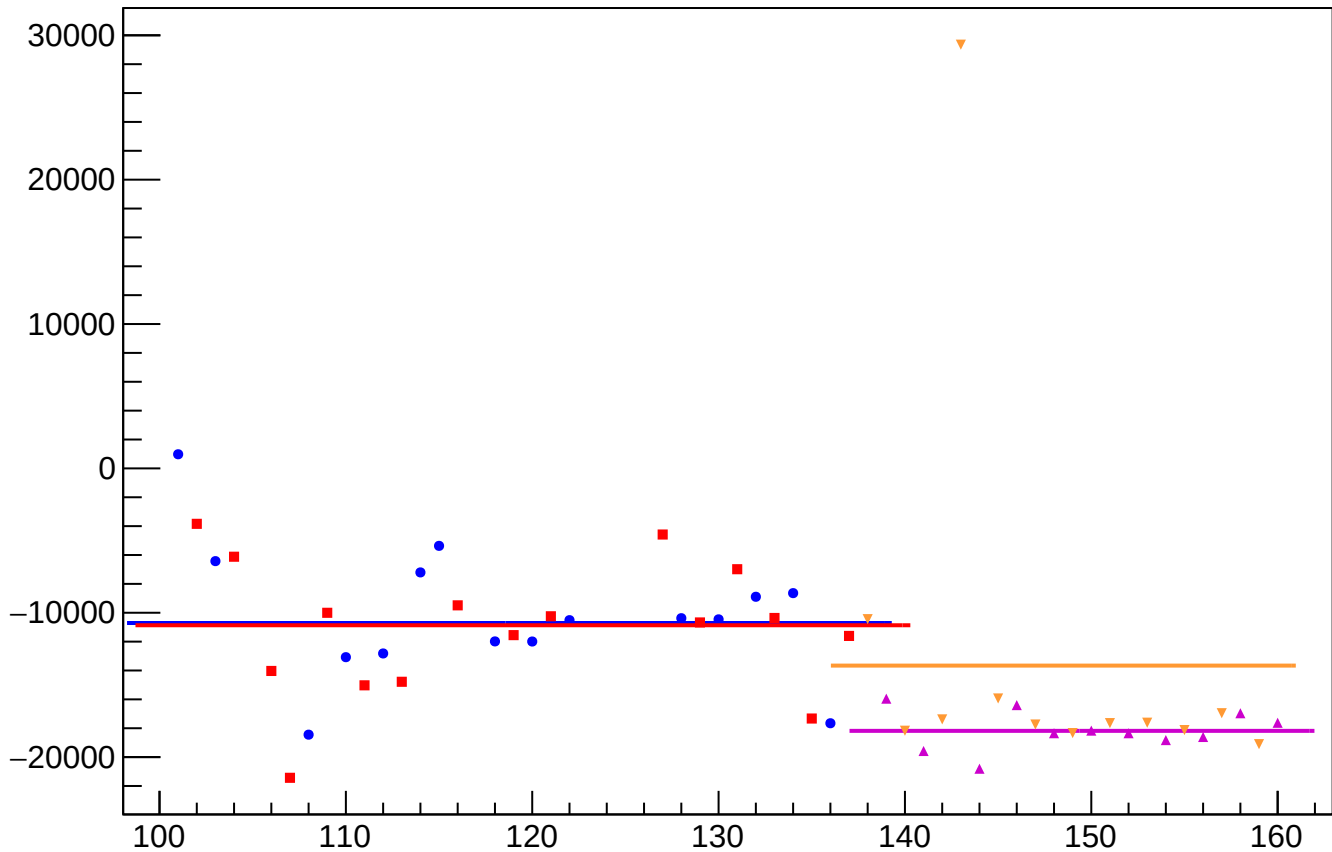
Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607.0/10

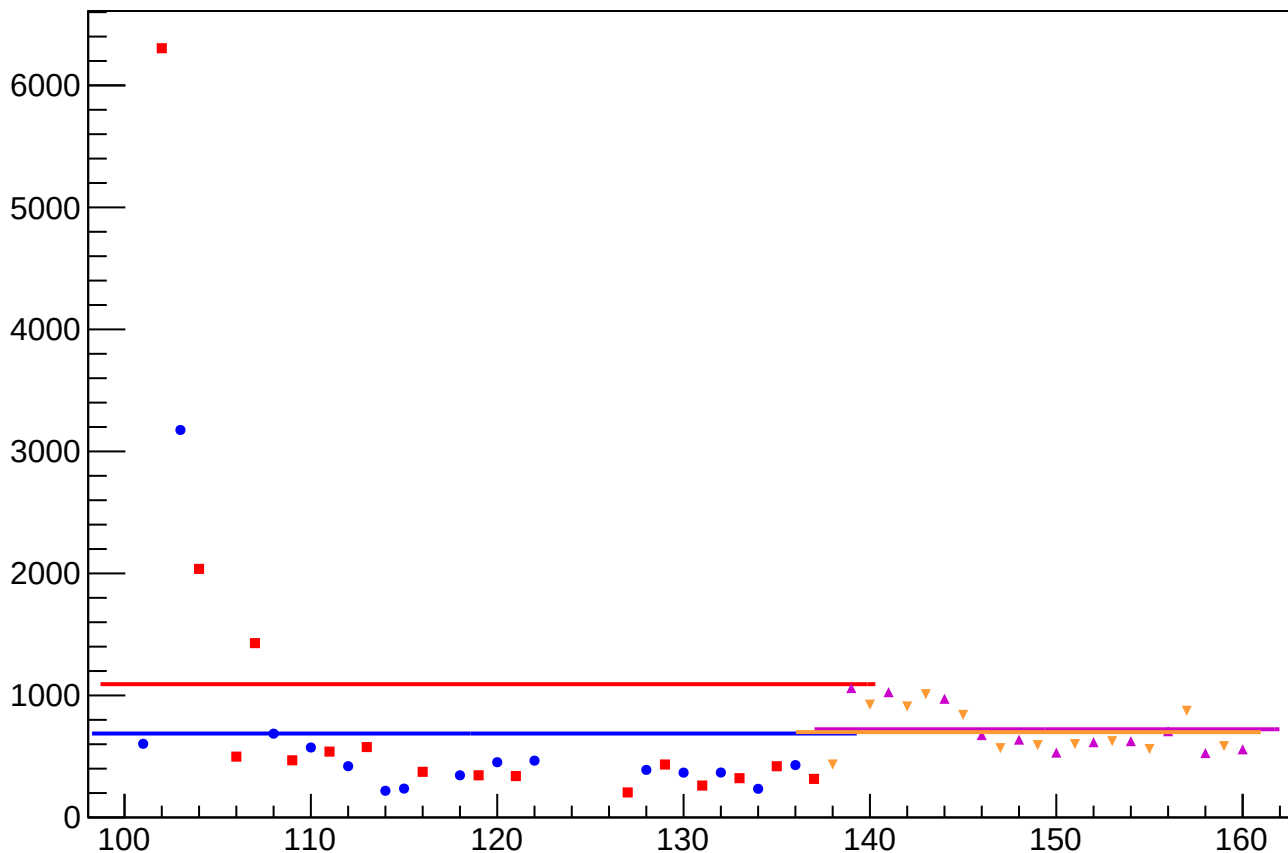
# dit\_atl1\_coil1\_mean vs Slug



Right In:  $-10710.292 \pm 0.000$   $\chi^2/\text{NDF}: 16945226152053511840482618402250170564608.0/14$   
 Left Out:  $-13660.650 \pm 0.000$   $\chi^2/\text{NDF}: 137996899958511608921126321459037955162112.0/11$   
 Right Out:  $-10866.264 \pm 0.000$   $\chi^2/\text{NDF}: 14234762838858382484525901644131626647552.0/15$   
 Left In:  $-18181.504 \pm 0.000$   $\chi^2/\text{NDF}: 1643617183572647868818914289162838343680.0/10$

+ sign  $-12437.928 \pm 0.000$   $\chi^2/\text{NDF}: 158250171839$   
 All:  $-13786.919 \pm 0.000$   $\chi^2/\text{NDF}: 200512620$   
 - sign  $-15114.713 \pm 0.000$   $\chi^2/\text{NDF}: 3660768844081$

dit\_atl1\_coil1\_err\_mean vs Slug



Right In: 687.939+/-0.000  $\chi^2/\text{NDF}$ : 409297141104301509817753390759024787456.0/14

+ sign 694.726+/-0.000  $\chi^2/\text{NDF}$ : 437631008003960

Left Out: 699.529+/-0.000  $\chi^2/\text{NDF}$ : 28282813130903909256088396264464449536.0/11

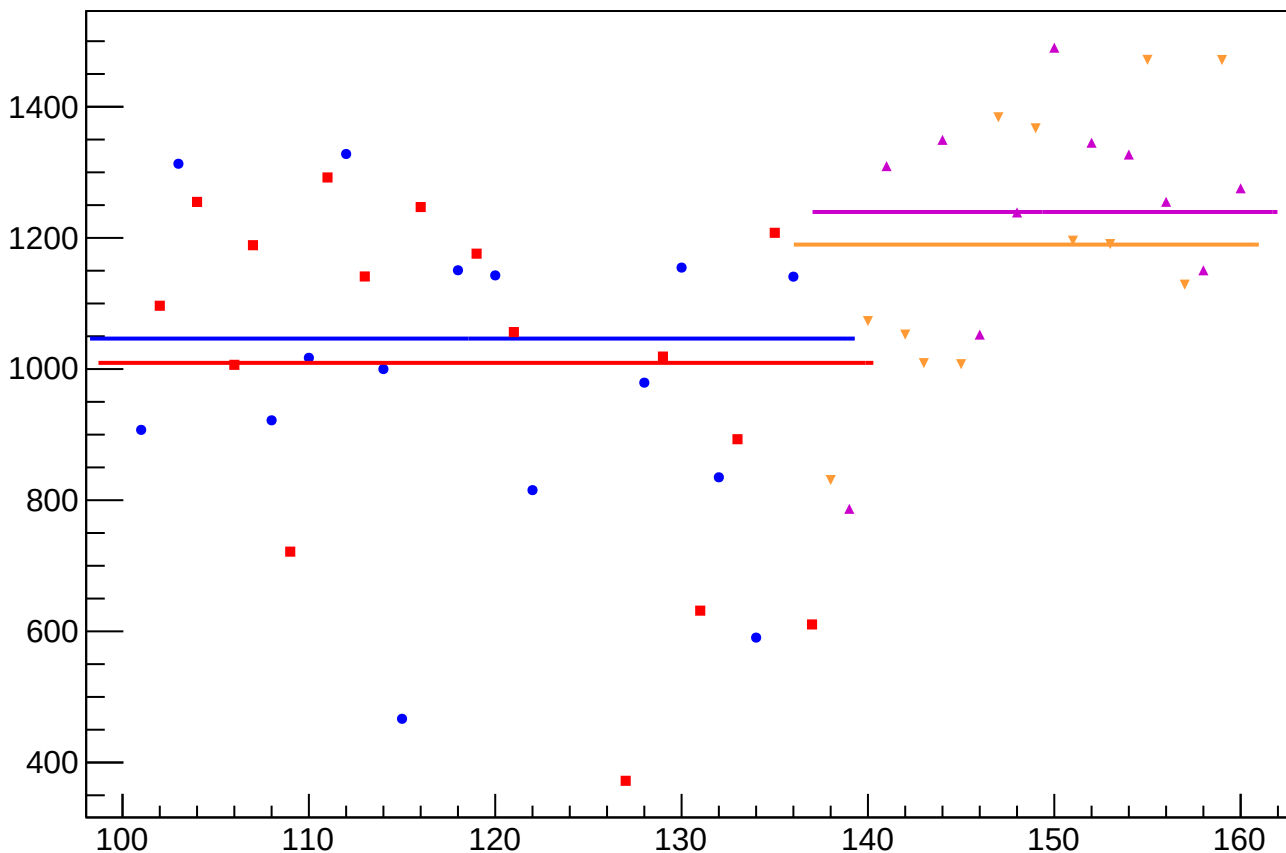
All: 786.917+/-0.000  $\chi^2/\text{NDF}$ : 243382664775

Right Out: 1092.265+/-0.000  $\chi^2/\text{NDF}$ : 1883198142929605813456233812946948456448.0/15

- sign 877.659+/-0.000  $\chi^2/\text{NDF}$ : 196978539018965

Left In: 722.743+/-0.000  $\chi^2/\text{NDF}$ : 33693137116513948077860330410535288832.0/10

dit\_atl1\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

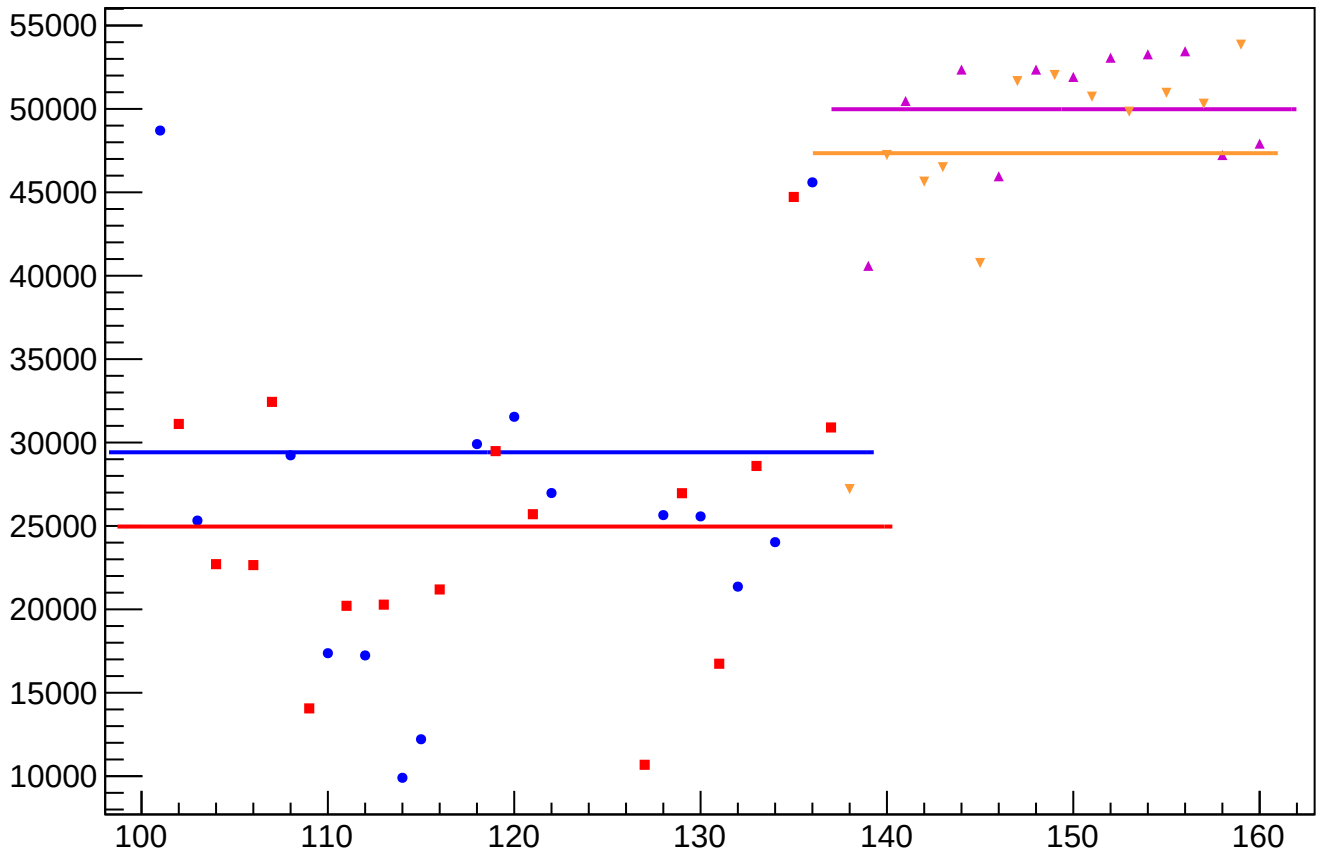
Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800  
 All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607  
 - sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

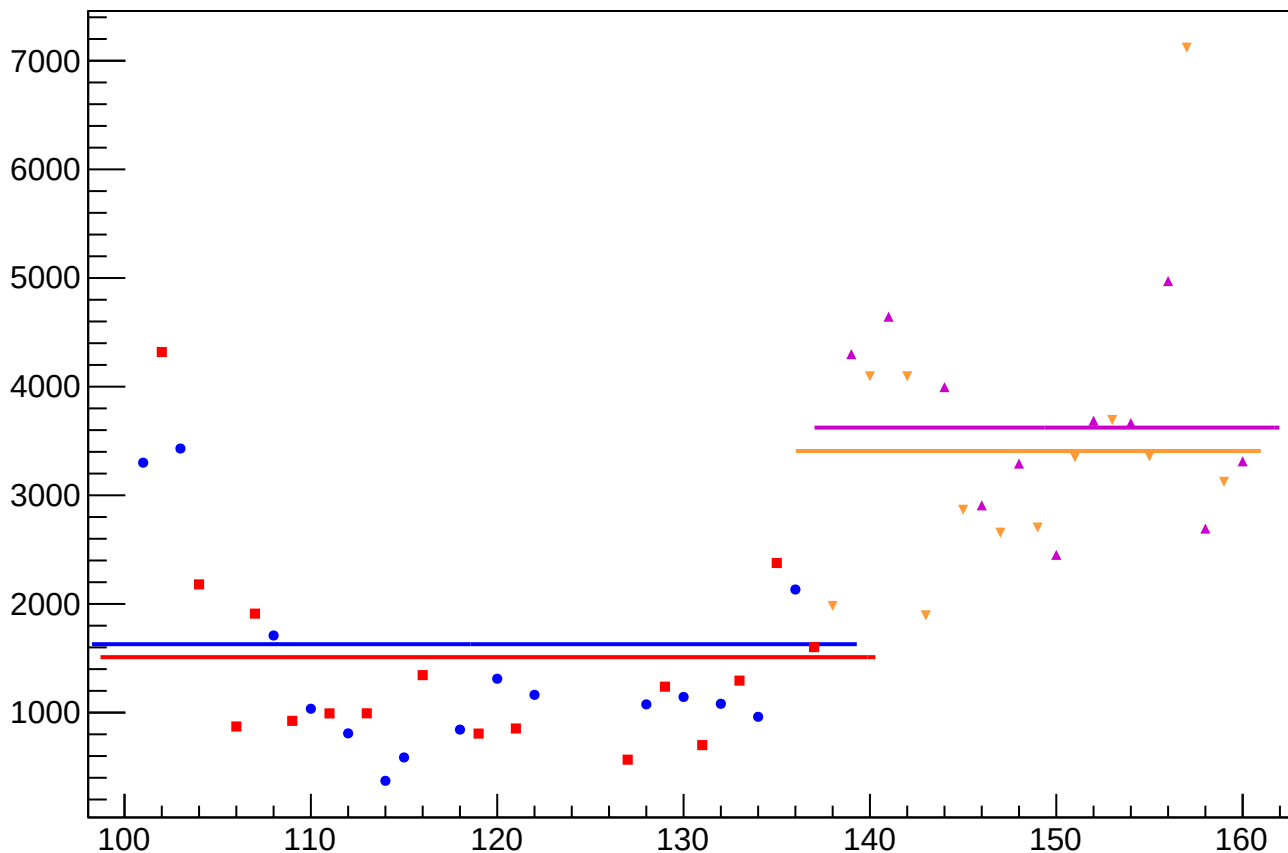
# dit\_atl2\_coil1\_mean vs Slug



Right In: 29415.830+/-0.000  $\chi^2/\text{NDF}$ : 71764989638928082906774979753894809174016.0/14  
 Left Out: 47346.512+/-0.000  $\chi^2/\text{NDF}$ : 45161873845138471299889685507142267699200.0/11  
 Right Out: 24963.010+/-0.000  $\chi^2/\text{NDF}$ : 45631572920122171972835961685494315614208.0/15  
 Left In: 49982.063+/-0.000  $\chi^2/\text{NDF}$ : 13505821019305603846121121344717970210816.0/10

+ sign 39915.469+/-0.000  $\chi^2/\text{NDF}$ : 2391113044287  
 All: 39702.686+/-0.000  $\chi^2/\text{NDF}$ : 5408657163  
 - sign 39493.245+/-0.000  $\chi^2/\text{NDF}$ : 3016137188389

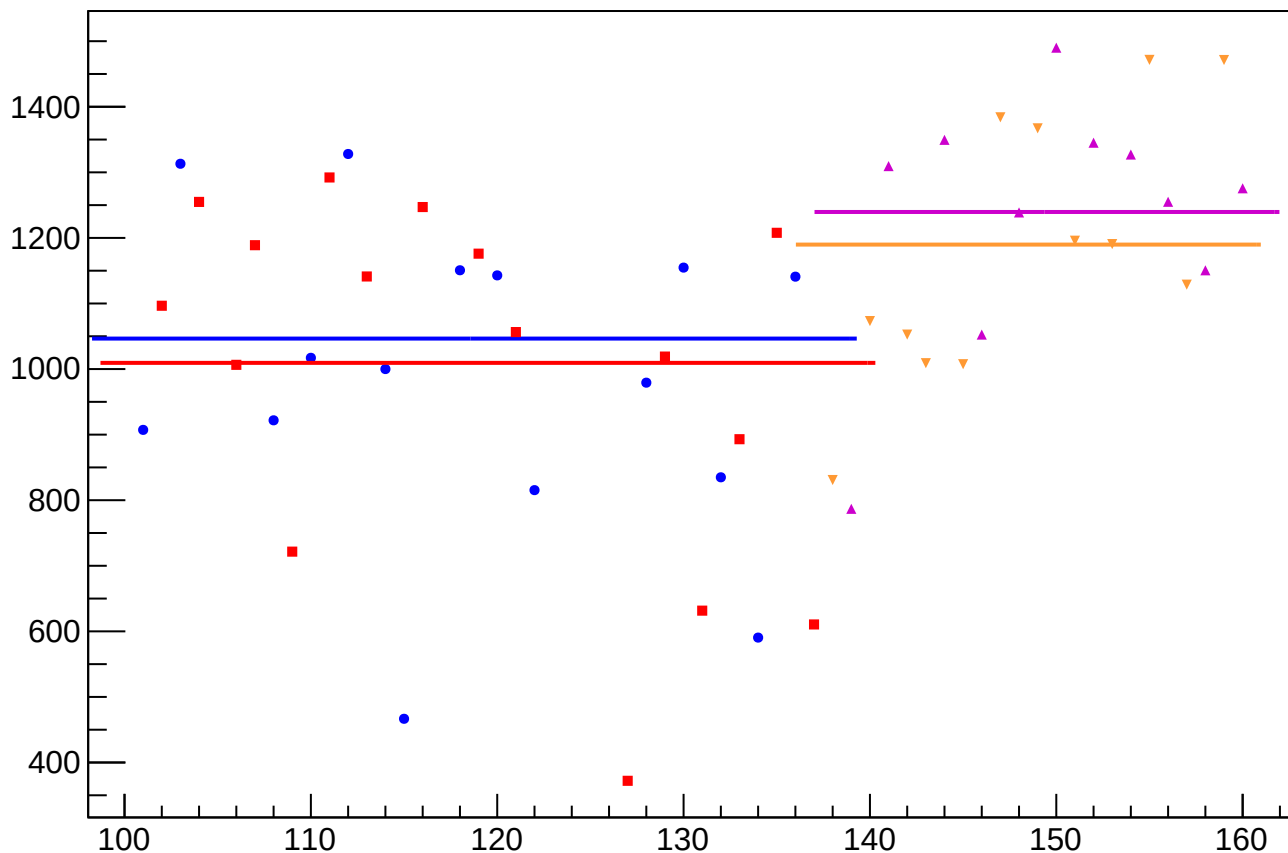
dit\_atl2\_coil1\_err\_mean vs Slug



Right In: 1629.542+/-0.000  $\chi^2/\text{NDF}$ : 551738555355028902194697896437152219136.0/14  
 Left Out: 3407.741+/-0.000  $\chi^2/\text{NDF}$ : 1584870057929033939797166763050451075072.0/11  
 Right Out: 1510.293+/-0.000  $\chi^2/\text{NDF}$ : 688231904046816211321774524619745656832.0/15  
 Left In: 3623.095+/-0.000  $\chi^2/\text{NDF}$ : 537714450371269509719141411292840984576.0/10



dit\_atl2\_coil1\_Ndata\_mean vs Slug



Right In:  $1046.490 \pm 0.000$   $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out:  $1189.821 \pm 0.000$   $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out:  $1009.445 \pm 0.000$   $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

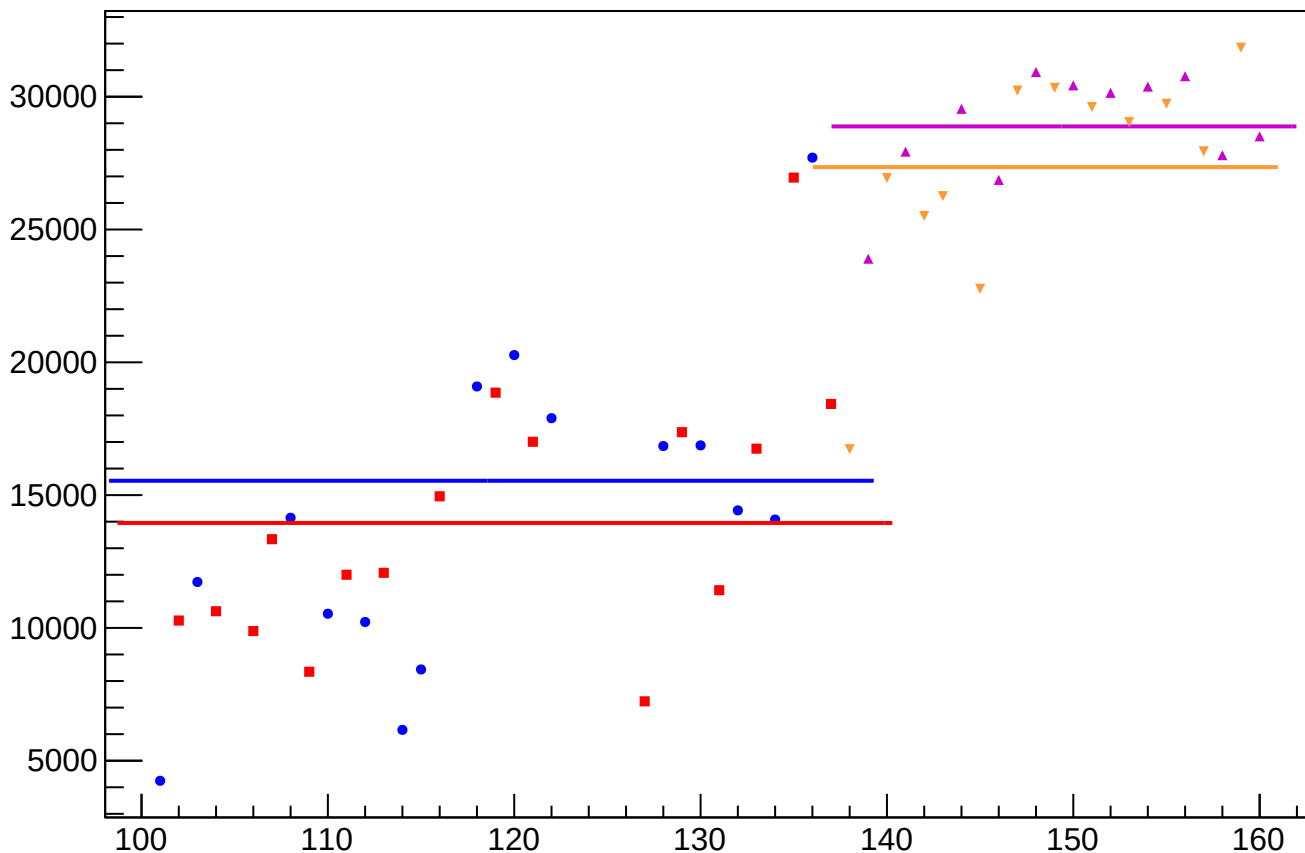
Left In:  $1239.553 \pm 0.000$   $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

+ sign  $1130.420 \pm 0.000$   $\chi^2/\text{NDF}$ : 68161846076800

All:  $1136.802 \pm 0.000$   $\chi^2/\text{NDF}$ : 16251853607

- sign  $1143.084 \pm 0.000$   $\chi^2/\text{NDF}$ : 94230119572030

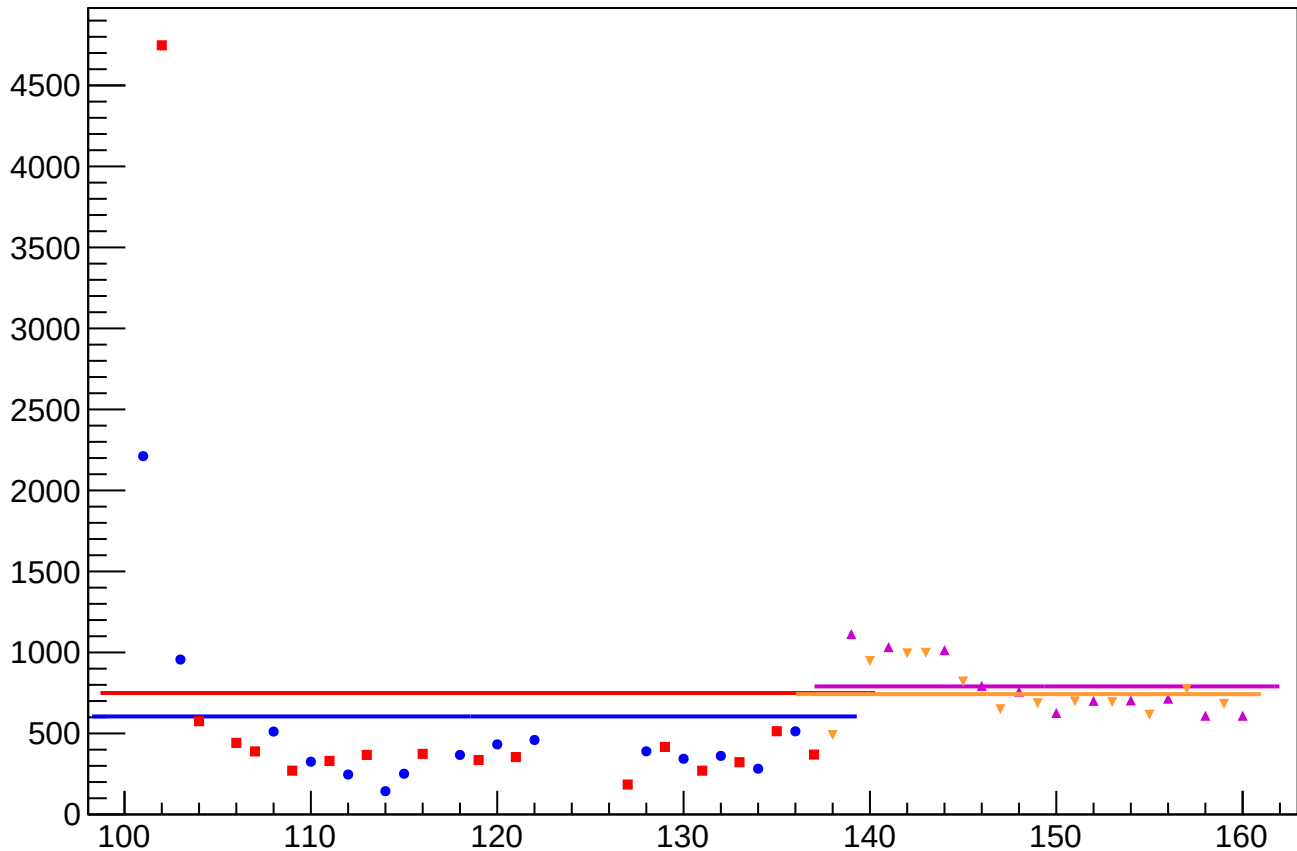
dit\_atr1\_coil1\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 15540.787+/-0.000  | $\chi^2/\text{NDF}$ : 27383635886523601832377795383509714468864.0/14 |
| Left Out: 27349.847+/-0.000  | $\chi^2/\text{NDF}$ : 14883456917386062267776172319393710080000.0/11 |
| Right Out: 13951.799+/-0.000 | $\chi^2/\text{NDF}$ : 16954071035739584664612813430748100952064.0/15 |
| Left In: 28881.771+/-0.000   | $\chi^2/\text{NDF}$ : 3761764043421234560623243625754374701056.0/10  |

+ sign 22455.798+/-0.000  $\chi^2/\text{NDF}$ : 9526429400020  
 All: 22539.875+/-0.000  $\chi^2/\text{NDF}$ : 2023487718  
 - sign 22622.631+/-0.000  $\chi^2/\text{NDF}$ : 1070625118466

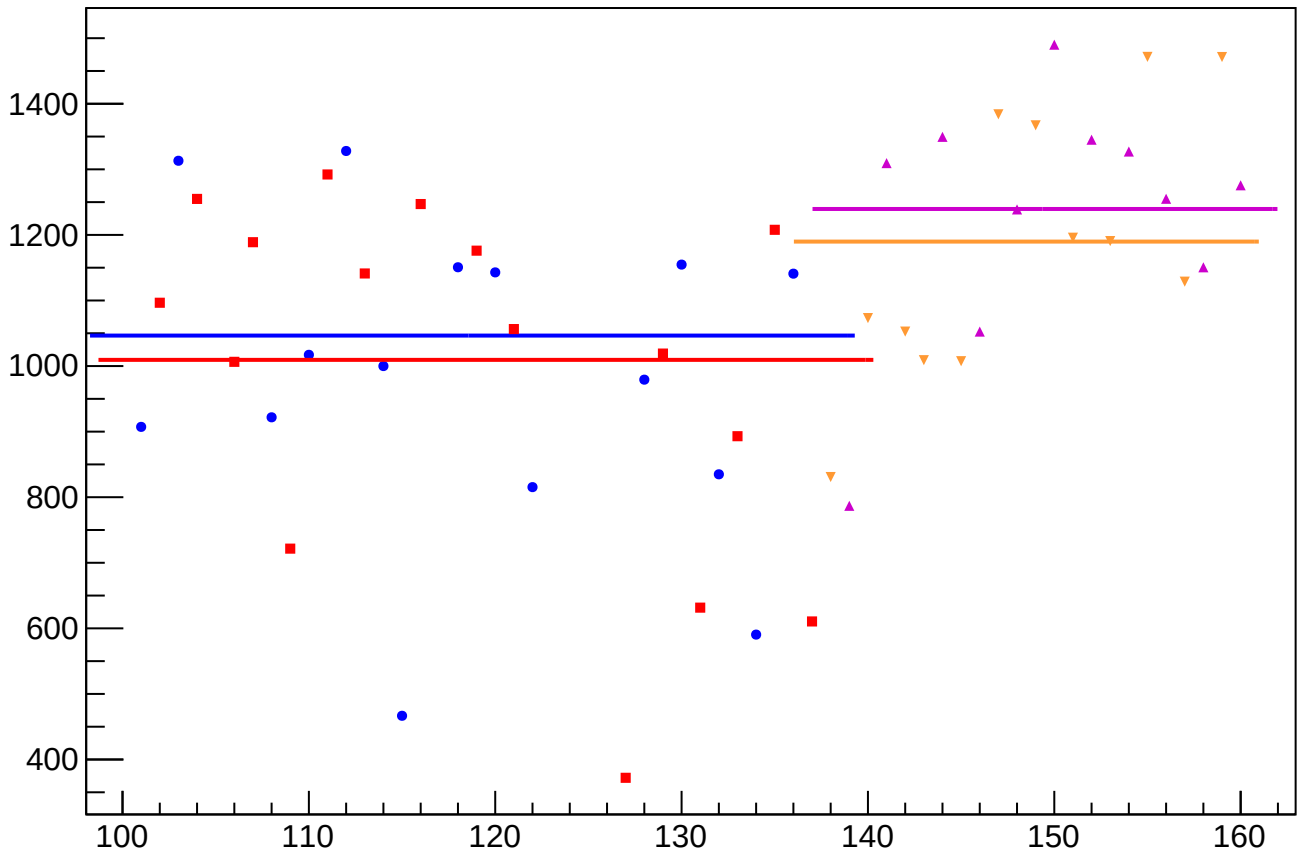
dit\_atr1\_coil1\_err\_mean vs Slug



|                            |                                                                     |
|----------------------------|---------------------------------------------------------------------|
| Right In: 605.034+/-0.000  | $\chi^2/\text{NDF}$ : 189401522791607614448600157723362852864.0/14  |
| Left Out: 742.547+/-0.000  | $\chi^2/\text{NDF}$ : 19133072840660474437485049781053030400.0/11   |
| Right Out: 749.582+/-0.000 | $\chi^2/\text{NDF}$ : 1021358768377495935693748779804344188928.0/15 |
| Left In: 790.283+/-0.000   | $\chi^2/\text{NDF}$ : 27375995163011560101349166949437800448.0/10   |

+ sign 685.557+/-0.000  $\chi^2/\text{NDF}$ : 215721008292600.0/11  
 All: 729.736+/-0.000  $\chi^2/\text{NDF}$ : 127116228852.0/15  
 - sign 773.220+/-0.000  $\chi^2/\text{NDF}$ : 104937647672496.0/15

dit\_atr1\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

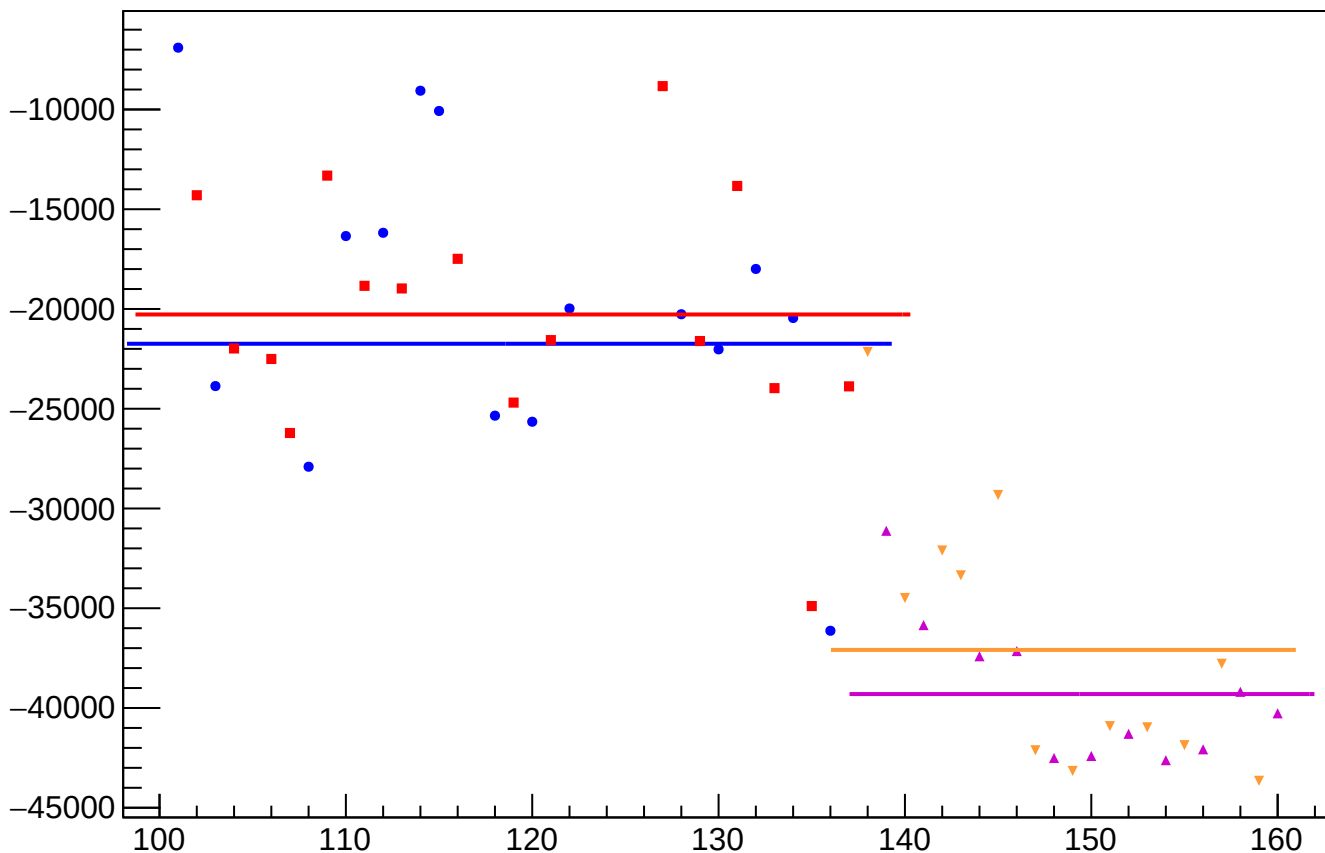
All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

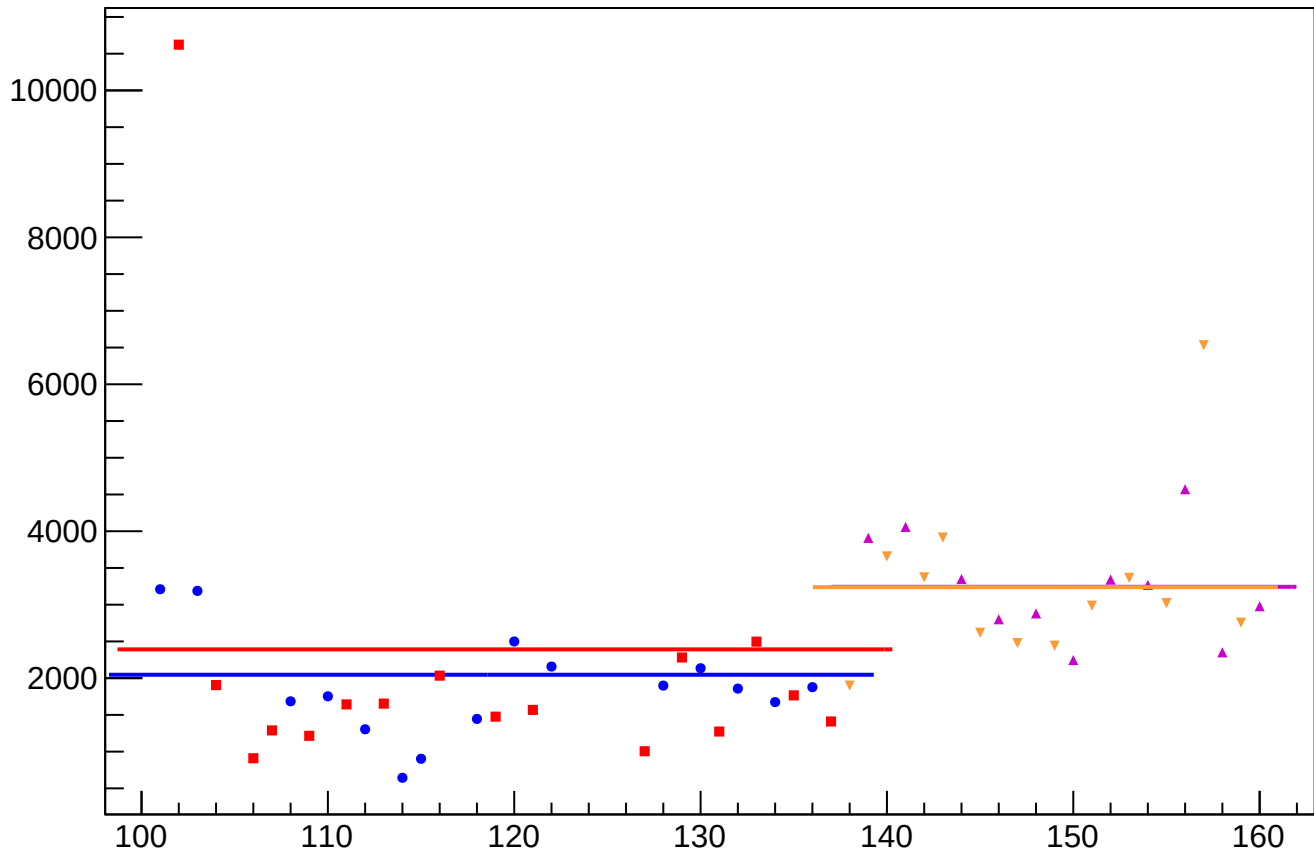
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

# dit\_atr2\_coil1\_mean vs Slug



Right In: -21743.360+/-0.000  $\chi^2/\text{NDF}$ : 41106858823579527325198675675398793068544.0/14  
 Left Out: -37089.024+/-0.000  $\chi^2/\text{NDF}$ : 37696615174692315635920208068597564571648.0/11  
 Right Out: -20275.415+/-0.000  $\chi^2/\text{NDF}$ : 25935869132092920231681532417627320745984.0/15  
 Left In: -39301.203+/-0.000  $\chi^2/\text{NDF}$ : 10890557195828480655850873156116452212736.0/10

dit\_atr2\_coil1\_err\_mean vs Slug



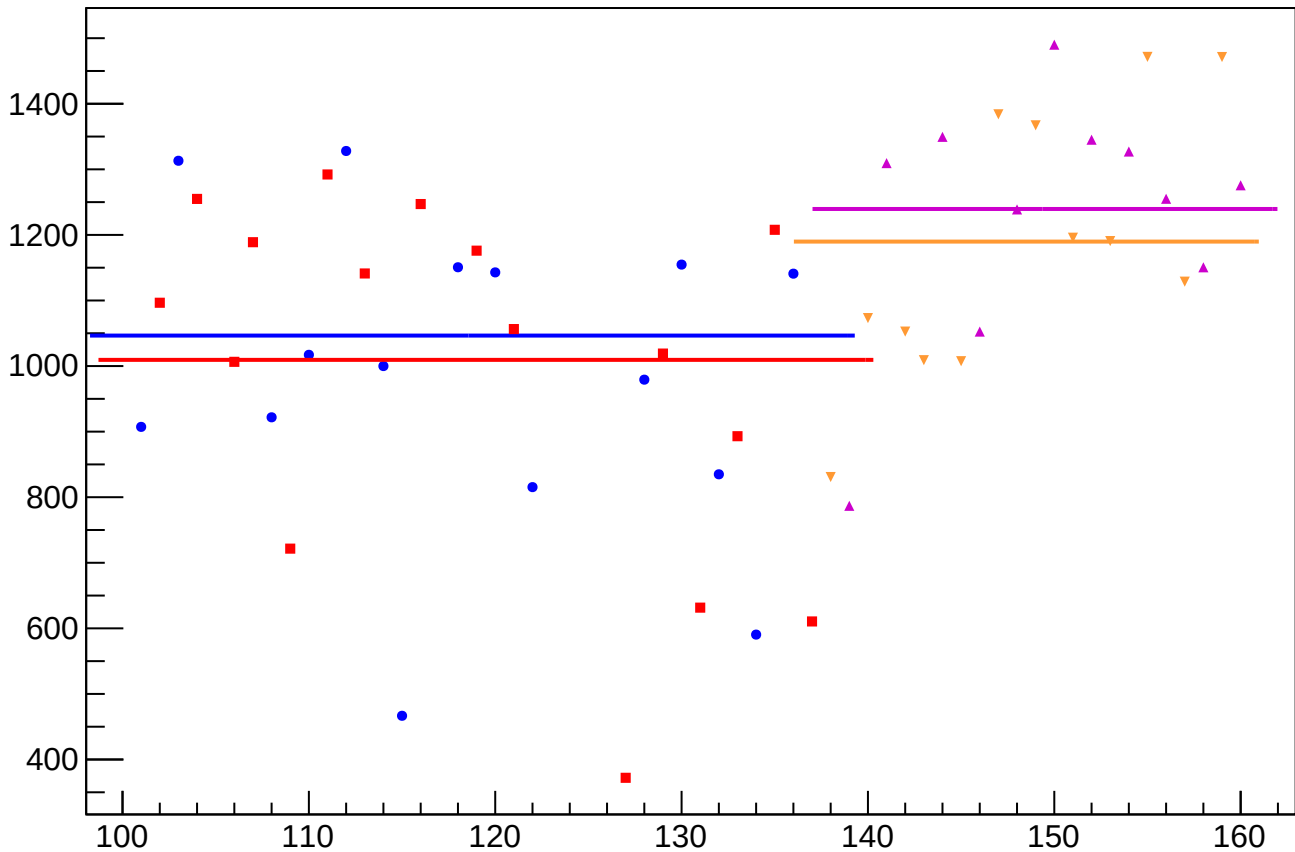
|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Right In: 2046.354+/-0.000  | $\chi^2/\text{NDF}$ : 266555515927348892036833058355226345472.0/14  |
| Left Out: 3238.684+/-0.000  | $\chi^2/\text{NDF}$ : 1200935390034847061403610621854649155584.0/11 |
| Right Out: 2391.939+/-0.000 | $\chi^2/\text{NDF}$ : 4415294964789778815259357544579499819008.0/15 |
| Left In: 3243.479+/-0.000   | $\chi^2/\text{NDF}$ : 422752345809564414875941115453230809088.0/10  |

+ sign 2744.544+/-0.000  $\chi^2/\text{NDF}$ : 20077660522649

All: 2816.077+/-0.000  $\chi^2/\text{NDF}$ : 71426046824

- sign 2886.485+/-0.000  $\chi^2/\text{NDF}$ : 51189384320628

dit\_atr2\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

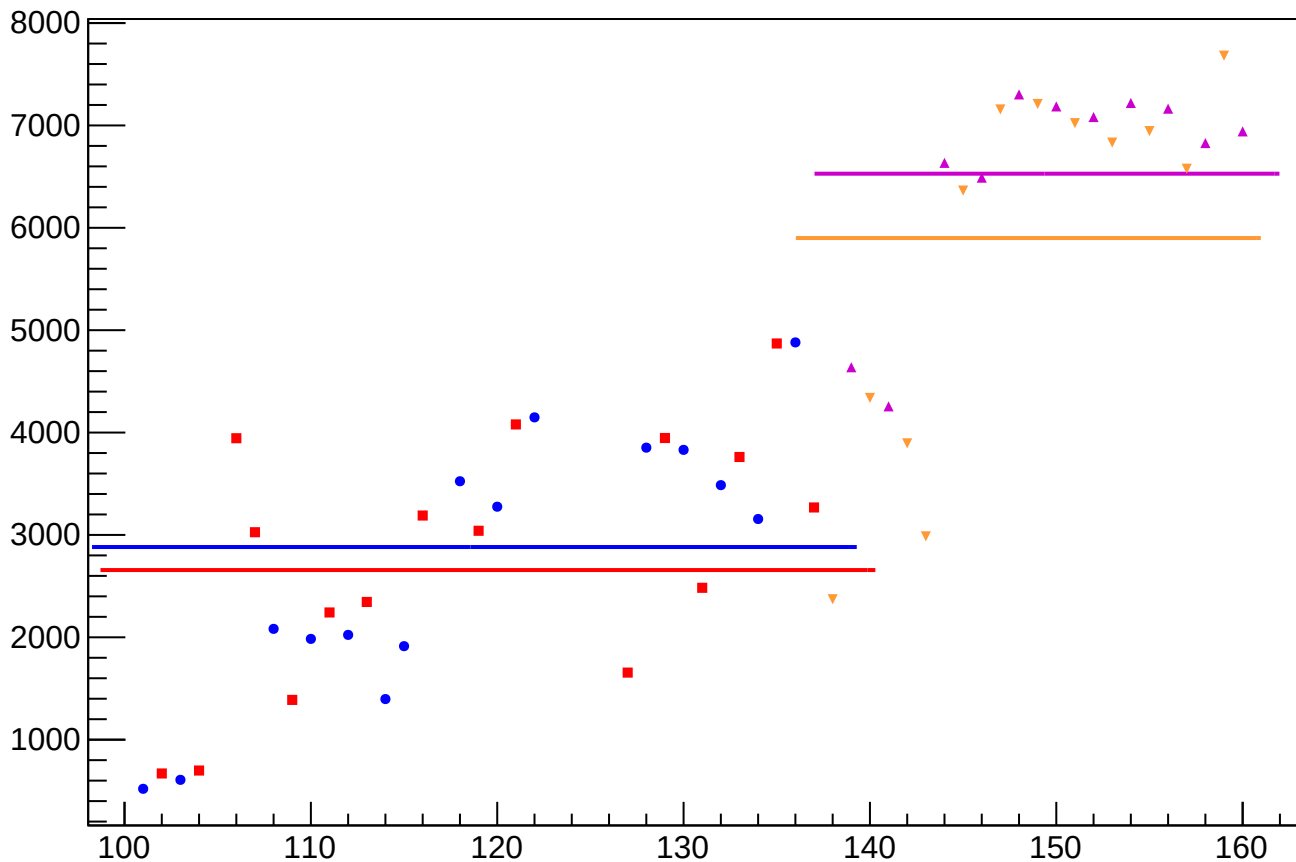
All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

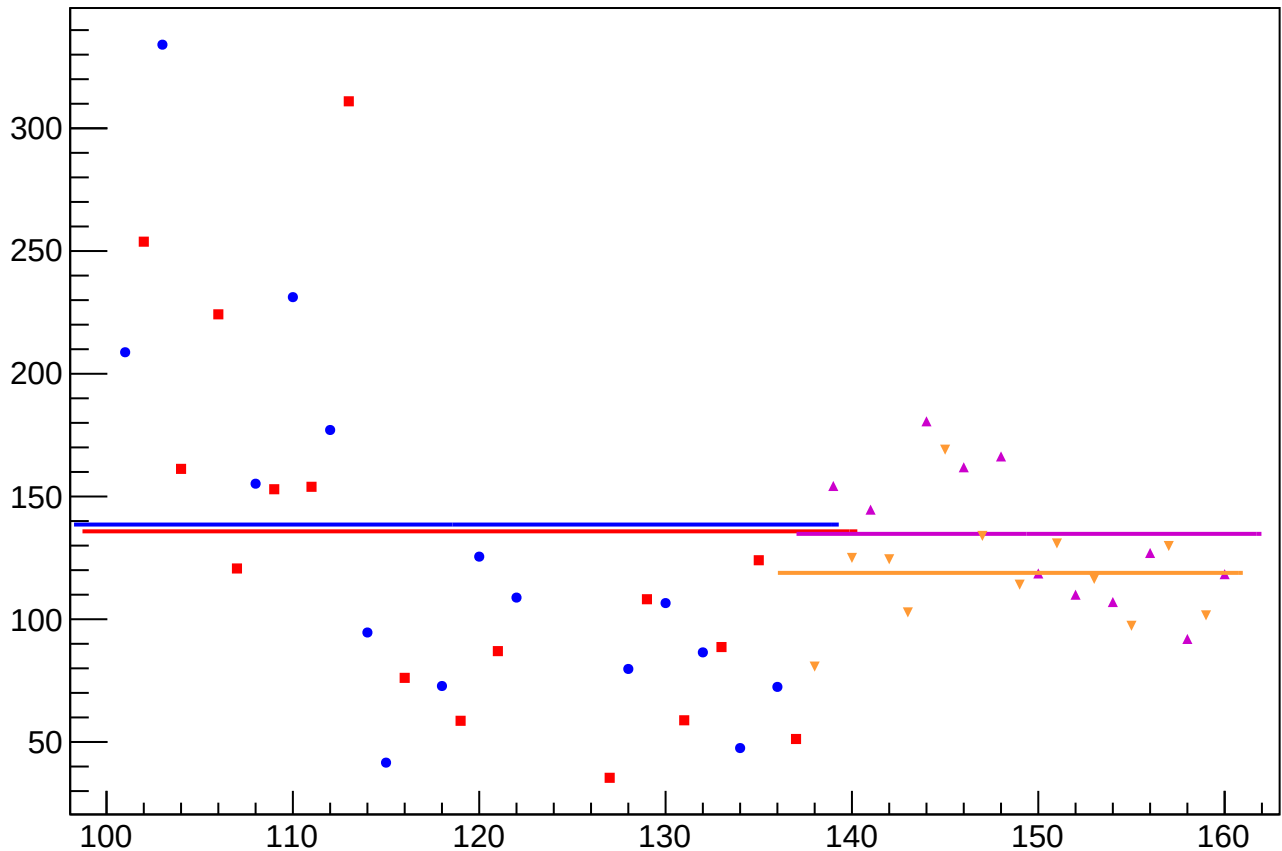
# dit\_sam1\_coil1\_mean vs Slug



Right In:  $2881.935 \pm 0.000$   $\chi^2/\text{NDF}$ : 1320319391496525533692082365878834823168.0/14  
 Left Out:  $5900.145 \pm 0.000$   $\chi^2/\text{NDF}$ : 2757689906494435175416115853599080185856.0/11  
 Right Out:  $2656.918 \pm 0.000$   $\chi^2/\text{NDF}$ : 1077696846216053561130716877125509447680.0/15  
 Left In:  $6528.681 \pm 0.000$   $\chi^2/\text{NDF}$ : 940619832290547661204641528694924378112.0/10

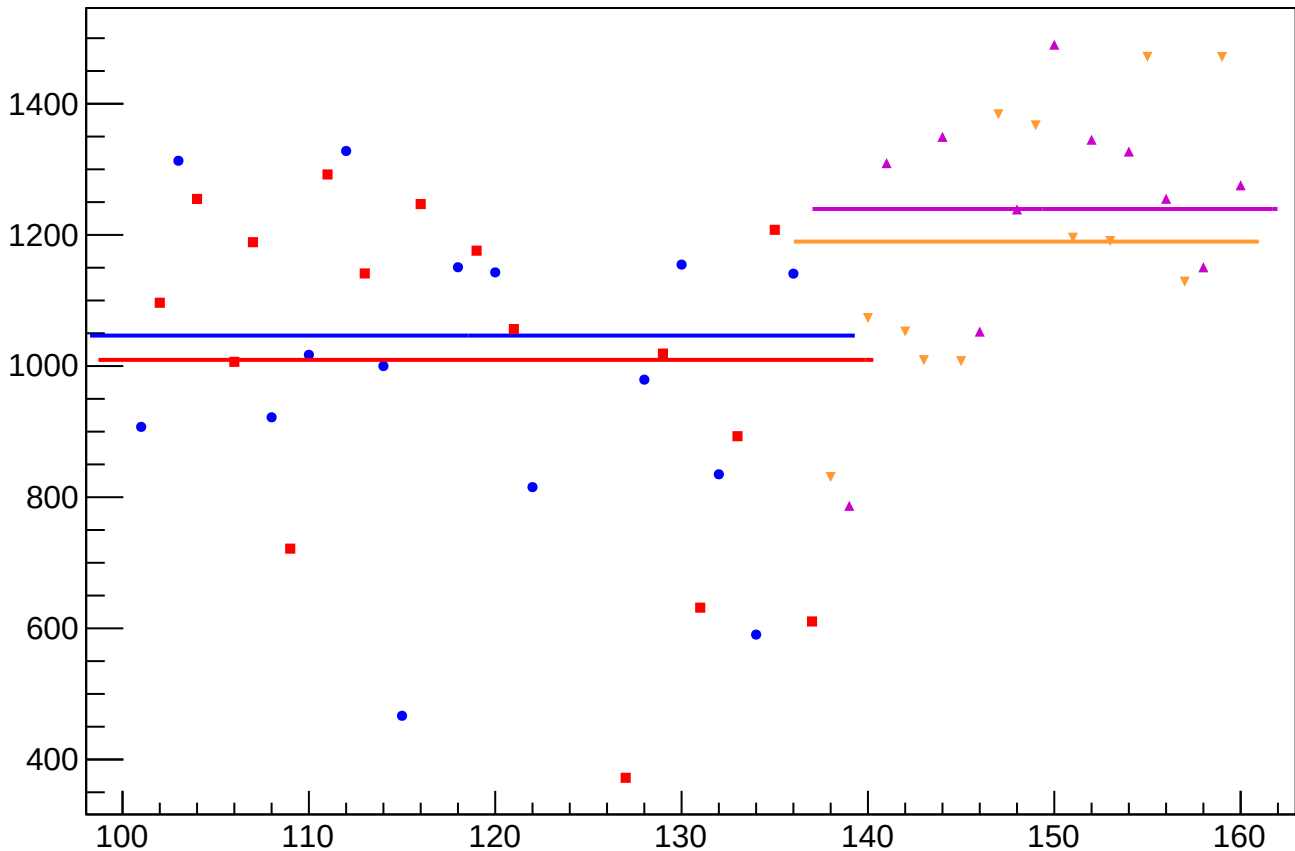


dit\_sam1\_coil1\_err\_mean vs Slug



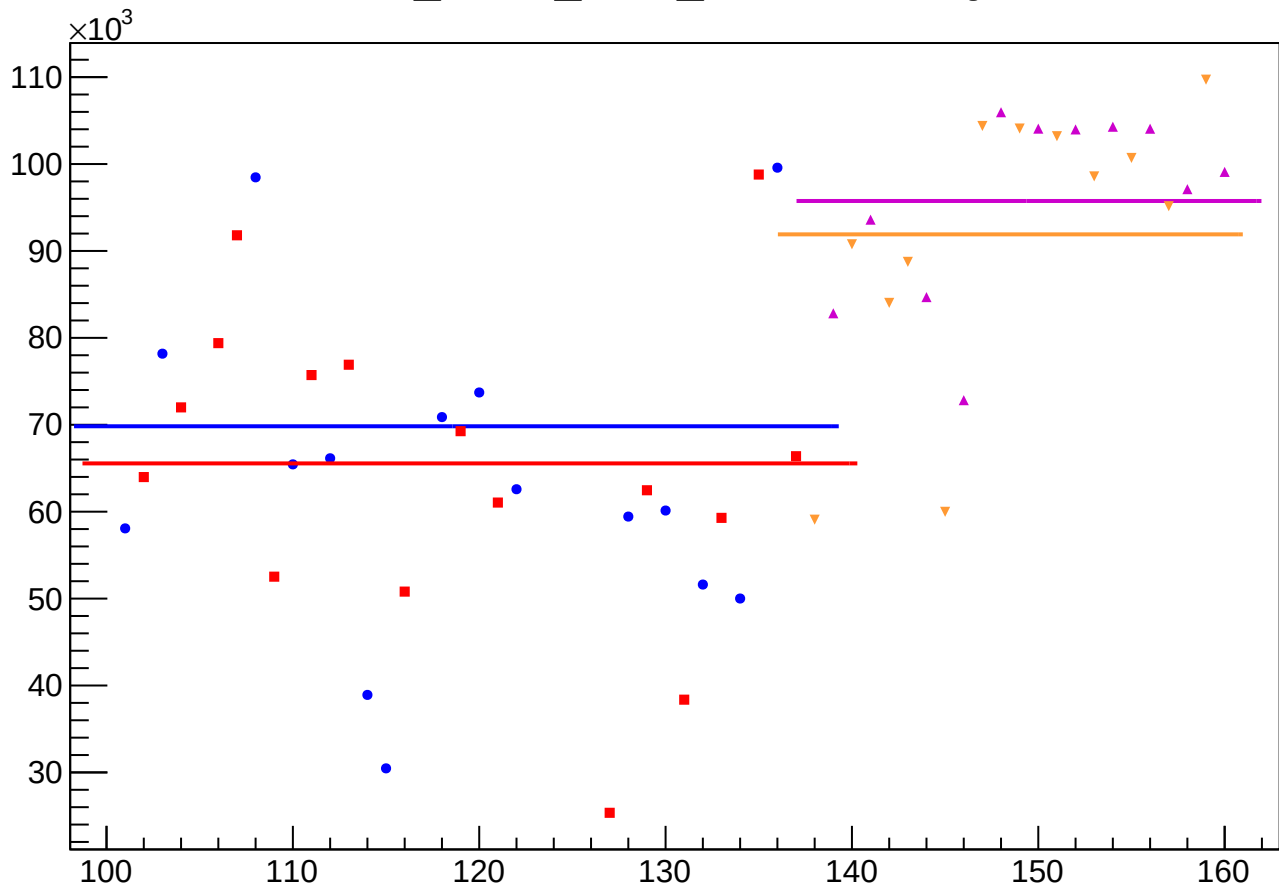
|                            |                                                                  |                        |                                       |
|----------------------------|------------------------------------------------------------------|------------------------|---------------------------------------|
| Right In: 138.577+/-0.000  | $\chi^2/\text{NDF}$ : 4242369889979811373883774021335515136.0/14 | + sign 127.050+/-0.000 | $\chi^2/\text{NDF}$ : 483097055203975 |
| Left Out: 118.892+/-0.000  | $\chi^2/\text{NDF}$ : 441331340602238377798748666087866368.0/11  | All: 131.165+/-0.000   | $\chi^2/\text{NDF}$ : 953019186952    |
| Right Out: 135.809+/-0.000 | $\chi^2/\text{NDF}$ : 3956401741862524263243160868173643776.0/15 | - sign 135.214+/-0.000 | $\chi^2/\text{NDF}$ : 464661599123883 |
| Left In: 134.785+/-0.000   | $\chi^2/\text{NDF}$ : 689808602632315539029860685392642048.0/10  |                        |                                       |

dit\_sam1\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14  
 Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11  
 Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15  
 Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

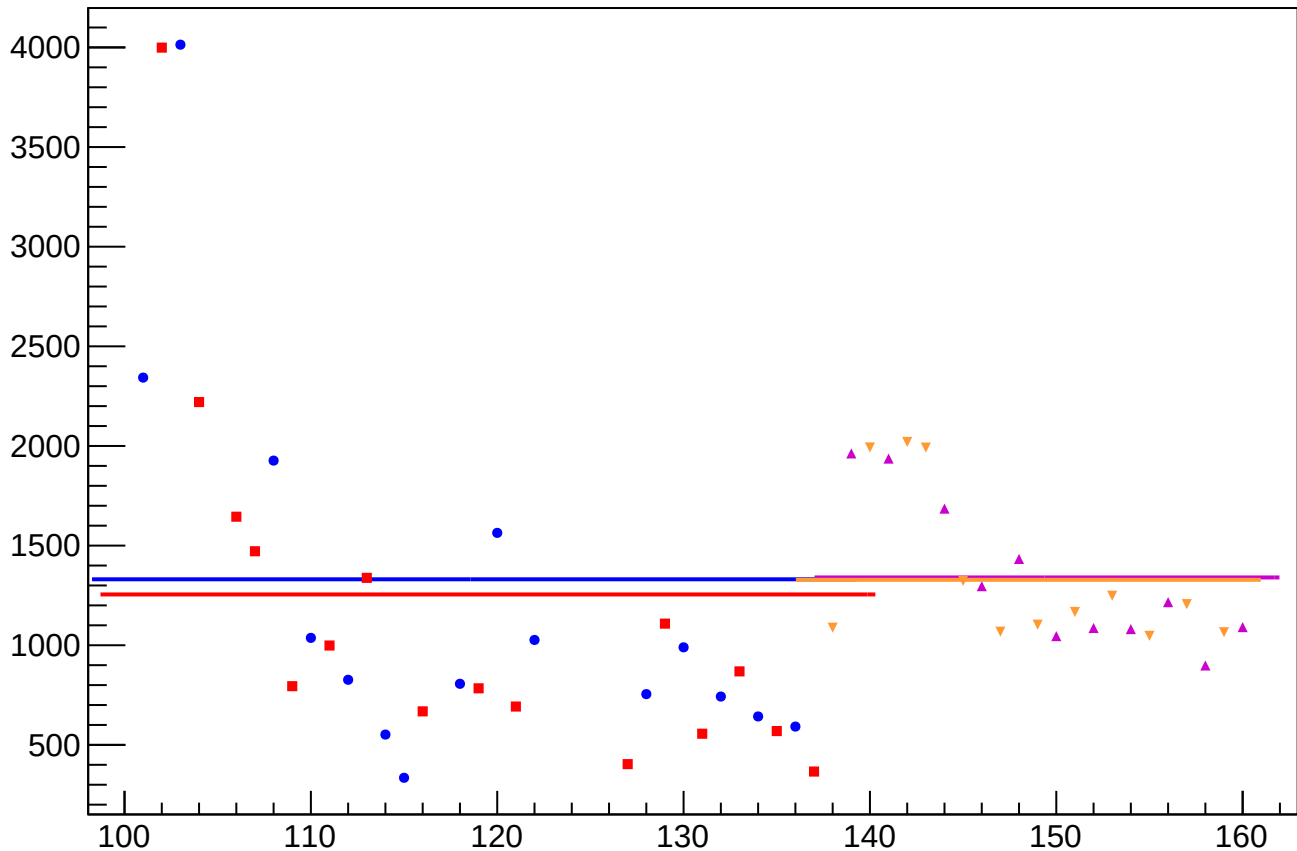
# dit\_sam2\_coil1\_mean vs Slug



|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Right In: 69827.797 $\pm$ 0.000  | $\chi^2$ /NDF: 187803282116493131197684060541288926150656.0/14 |
| Left Out: 91909.028 $\pm$ 0.000  | $\chi^2$ /NDF: 240792875976910962309751824422513810604032.0/11 |
| Right Out: 65555.147 $\pm$ 0.000 | $\chi^2$ /NDF: 212001467811386750910625783195999741673472.0/15 |
| Left In: 95749.411 $\pm$ 0.000   | $\chi^2$ /NDF: 102376761881530271427340284738693826084864.0/10 |

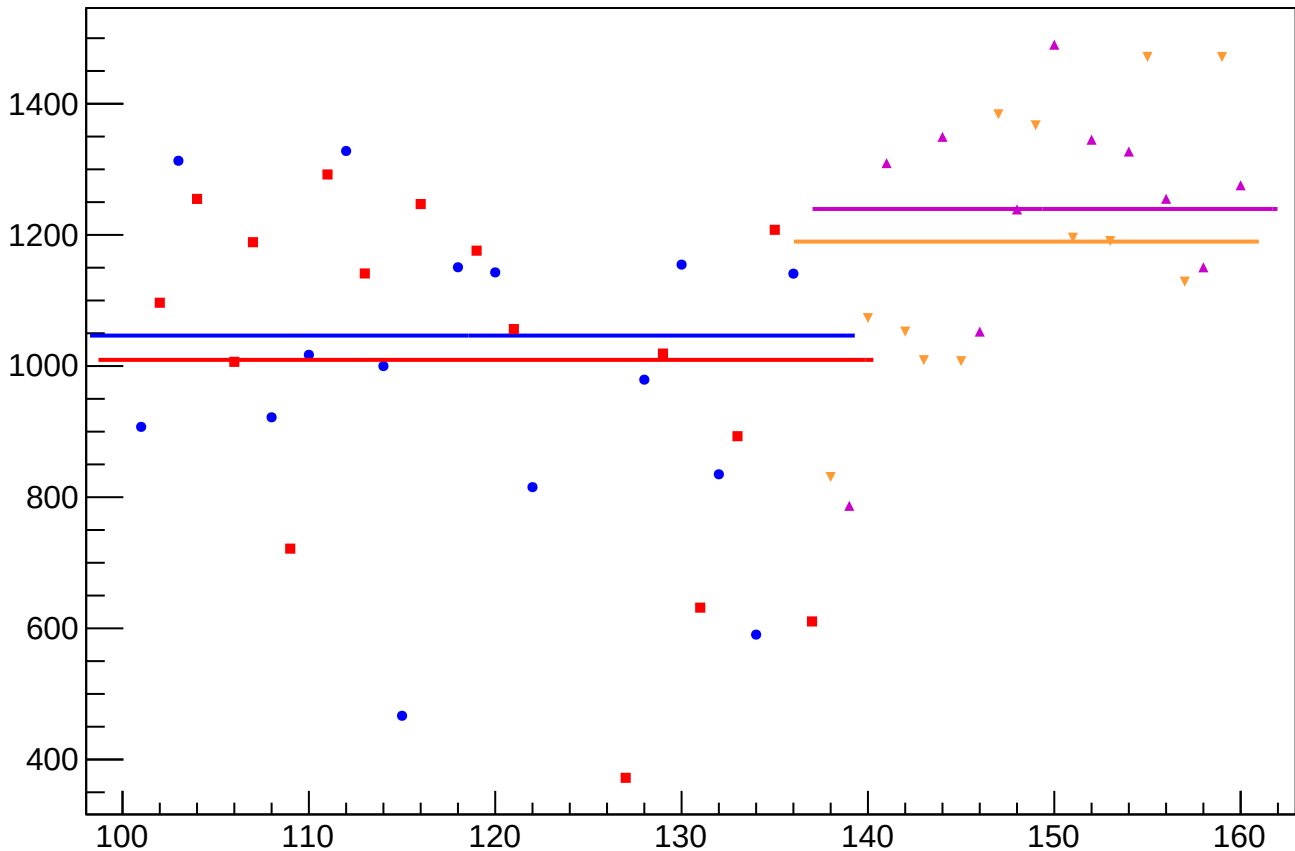
+ sign 82757.866 $\pm$ 0.000  $\chi^2$ /NDF: 6138933402345  
 All: 82925.739 $\pm$ 0.000  $\chi^2$ /NDF: 1281523212  
 - sign 83090.974 $\pm$ 0.000  $\chi^2$ /NDF: 6675423024903

dit\_sam2\_coil1\_err\_mean vs Slug



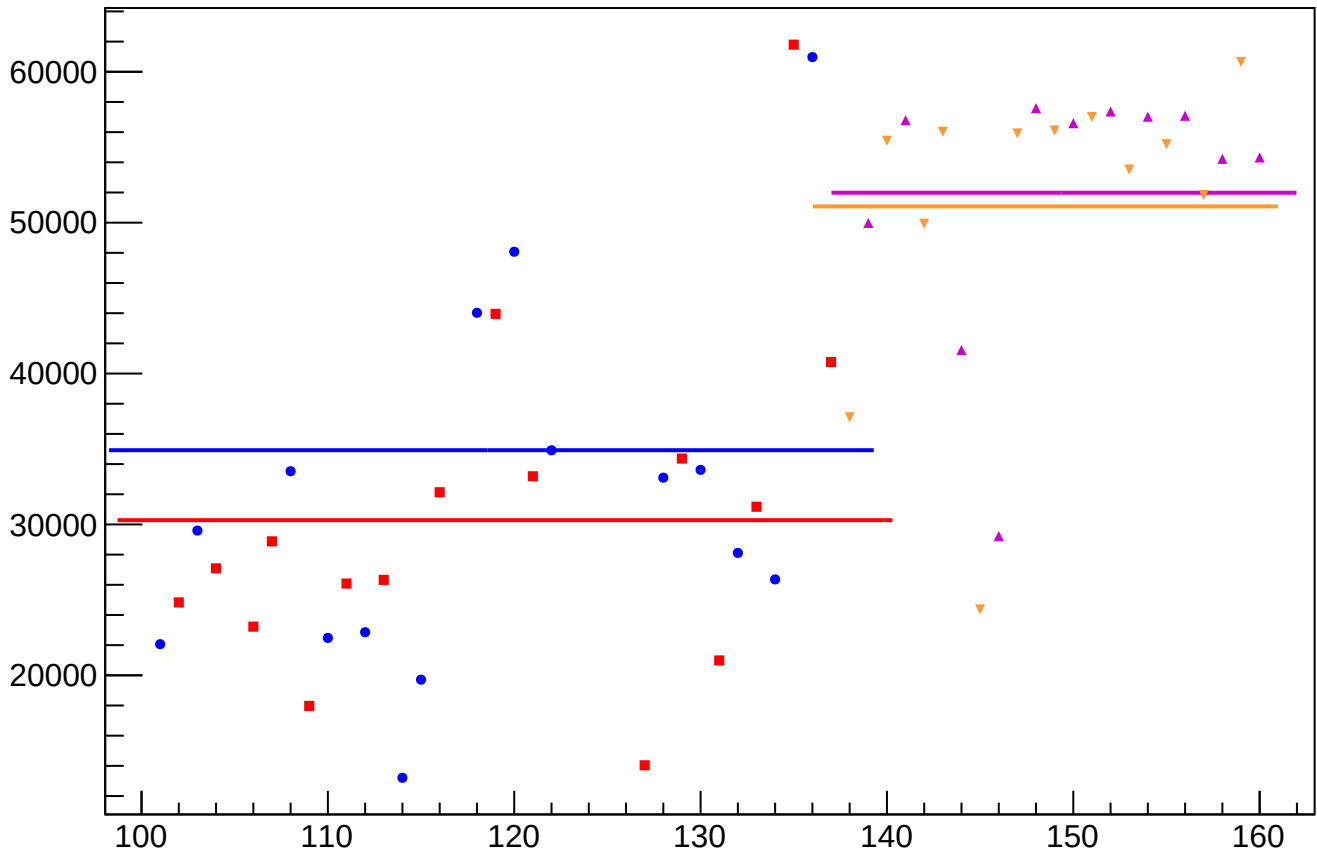
Right In: 1330.956+/-0.000  $\chi^2/\text{NDF}$ : 649481263842681659449409147059572834304.0/14  
 Left Out: 1328.309+/-0.000  $\chi^2/\text{NDF}$ : 117346287967386958303859795101623517184.0/11  
 Right Out: 1254.871+/-0.000  $\chi^2/\text{NDF}$ : 632140068983304062809817716800861765632.0/15  
 Left In: 1340.185+/-0.000  $\chi^2/\text{NDF}$ : 114204911168201277023830767366477709312.0/10

dit\_sam2\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14  
 Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11  
 Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15  
 Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

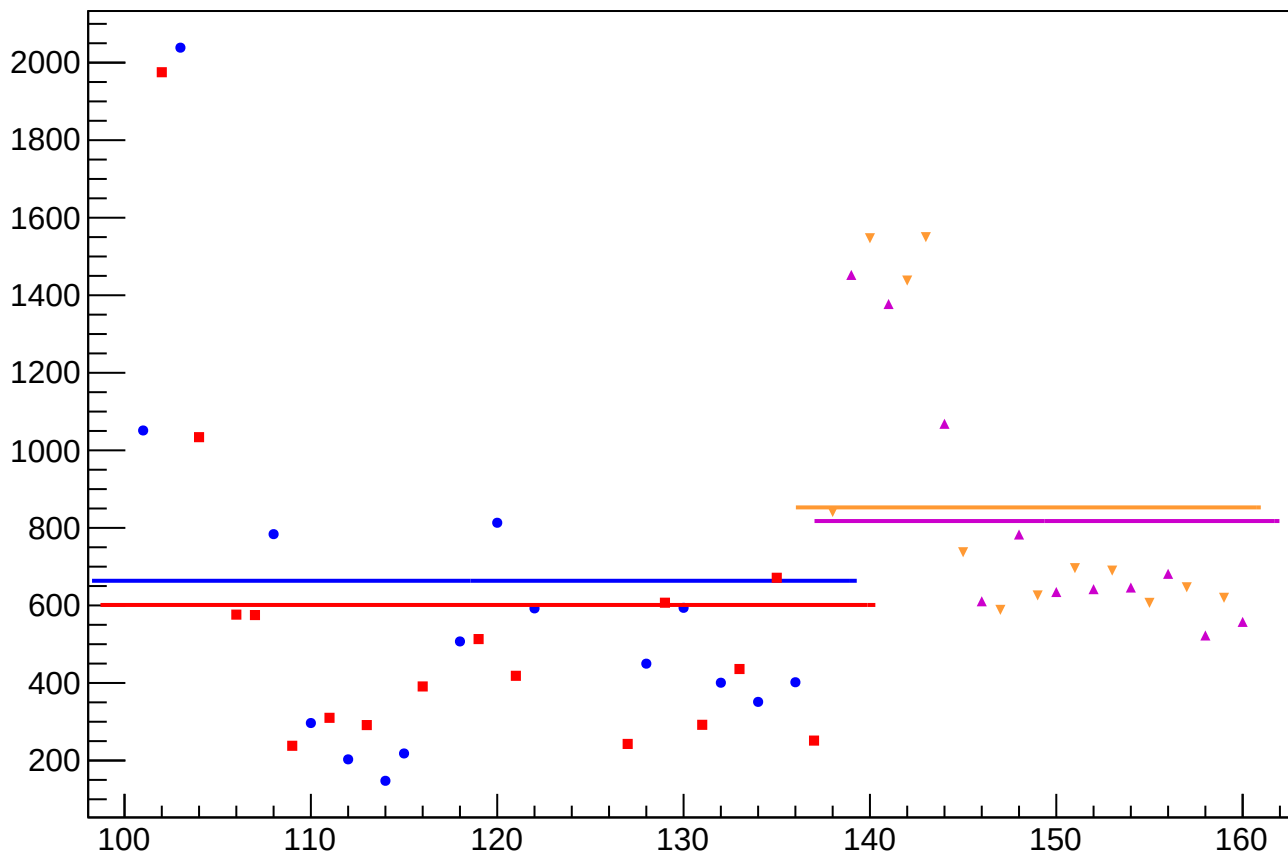
dit\_sam3\_coil1\_mean vs Slug



|                              |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| Right In: 34919.716+/-0.000  | $\chi^2/\text{NDF}$ : 106387385440718622155122541848729997017088.0/14 |
| Left Out: 51078.913+/-0.000  | $\chi^2/\text{NDF}$ : 92171566183632008367490399553102026899456.0/11  |
| Right Out: 30282.373+/-0.000 | $\chi^2/\text{NDF}$ : 88346165266593126627598951693506073067520.0/15  |
| Left In: 51985.374+/-0.000   | $\chi^2/\text{NDF}$ : 67172587579518863379504132116294676774912.0/10  |

+ sign 44382.030+/-0.000  $\chi^2/\text{NDF}$ : 2977932631162  
 All: 43628.472+/-0.000  $\chi^2/\text{NDF}$ : 6375363516  
 - sign 42886.756+/-0.000  $\chi^2/\text{NDF}$ : 3379785593938

# dit\_sam3\_coil1\_err\_mean vs Slug



Right In: 663.574+/-0.000  $\chi^2/\text{NDF}$ : 157691812872720822886914966597312446464.0/14

Left Out: 852.828+/-0.000  $\chi^2/\text{NDF}$ : 115391521173207267272974066416613326848.0/11

Right Out: 601.216+/-0.000  $\chi^2/\text{NDF}$ : 149717884331889332339995334350831878144.0/15

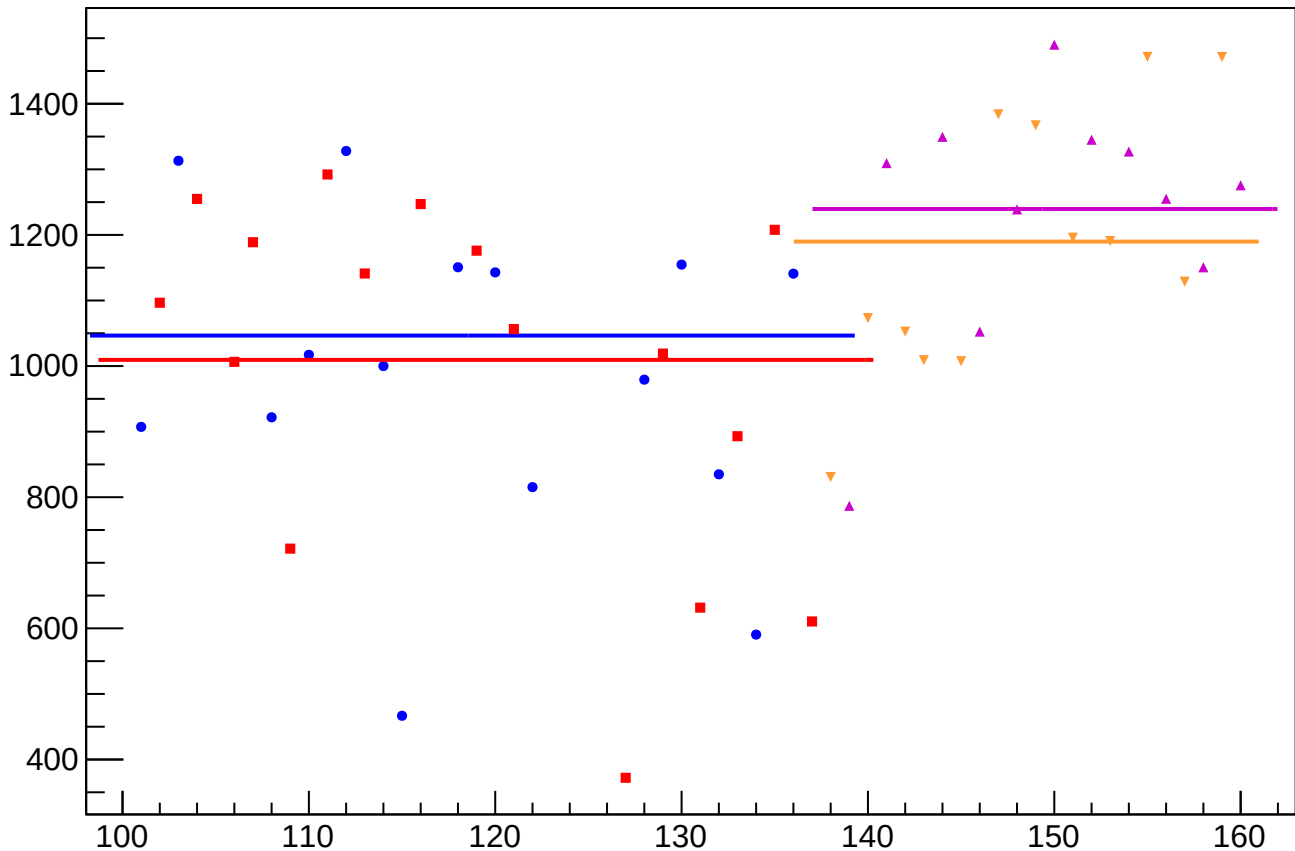
Left In: 817.657+/-0.000  $\chi^2/\text{NDF}$ : 90429548723715663326805299076811194368.0/10

+ sign 774.395+/-0.000  $\chi^2/\text{NDF}$ : 286695061420432

All: 750.468+/-0.000  $\chi^2/\text{NDF}$ : 546768442745

- sign 726.918+/-0.000  $\chi^2/\text{NDF}$ : 258294460548114

dit\_sam3\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

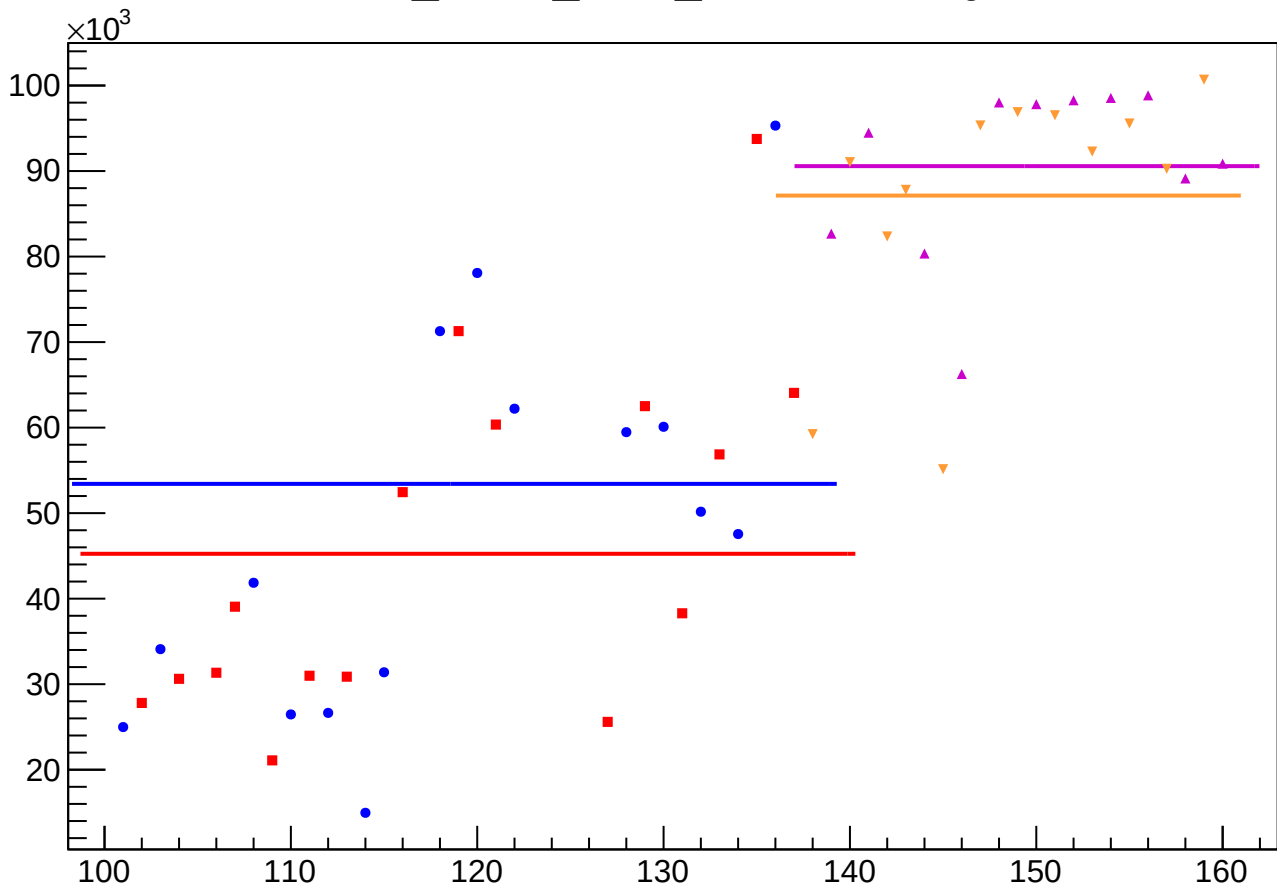
+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

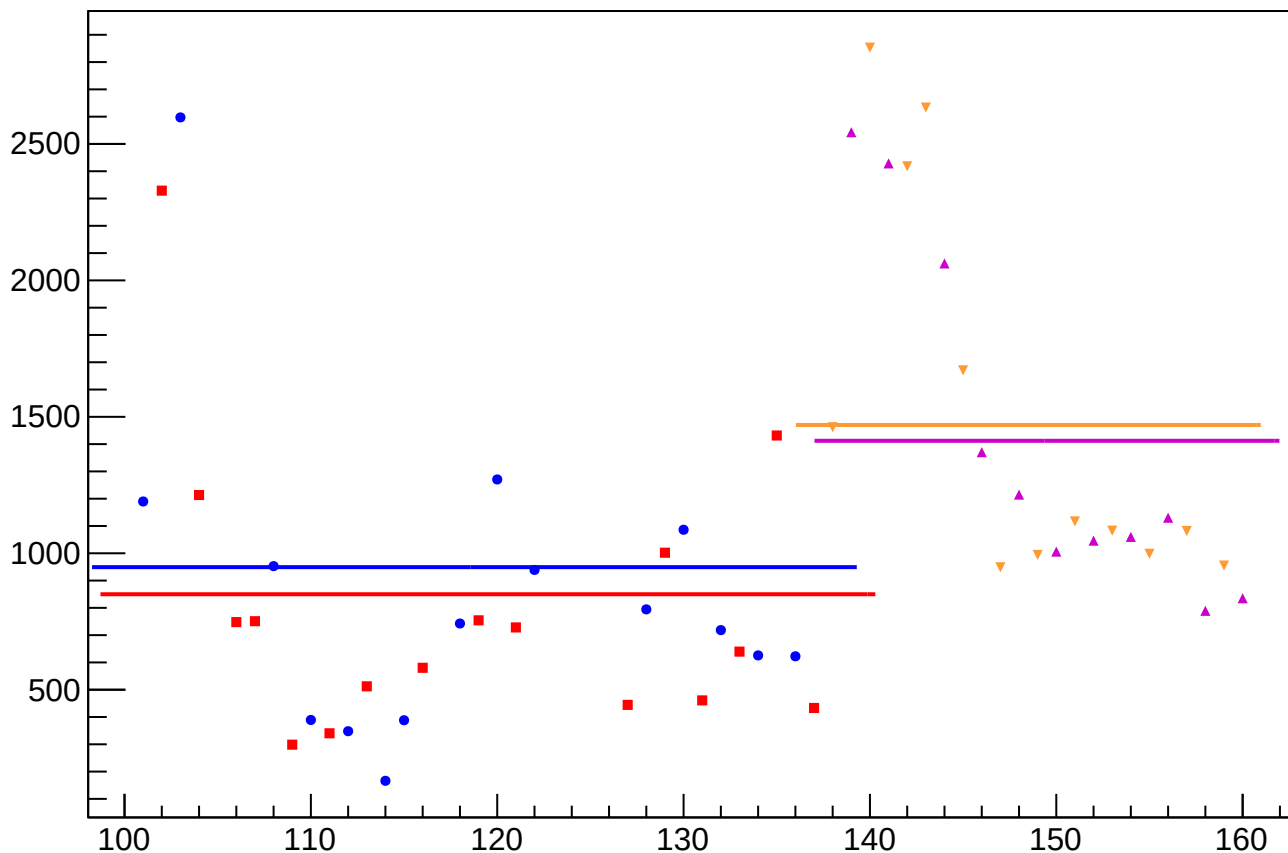


# dit\_sam4\_coil1\_mean vs Slug



Right In: 53422.452+/-0.000  $\chi^2/\text{NDF}$ : 360635757315133800133751123167777346551808.0/14  
 Left Out: 87135.960+/-0.000  $\chi^2/\text{NDF}$ : 189391741344290721413233098775018944331776.0/11  
 Right Out: 45247.617+/-0.000  $\chi^2/\text{NDF}$ : 286060196488034430215784613374055547928576.0/15  
 Left In: 90573.760+/-0.000  $\chi^2/\text{NDF}$ : 90574081394354221593949262312406685581312.0/10

dit\_sam4\_coil1\_err\_mean vs Slug



Right In: 949.197+/-0.000  $\chi^2/\text{NDF}$ : 225691032183153732733308094067658194944.0/14

+ sign 1254.262+/-0.000  $\chi^2/\text{NDF}$ : 73442755176588

Left Out: 1470.170+/-0.000  $\chi^2/\text{NDF}$ : 405590375156650172280507211961333710848.0/11

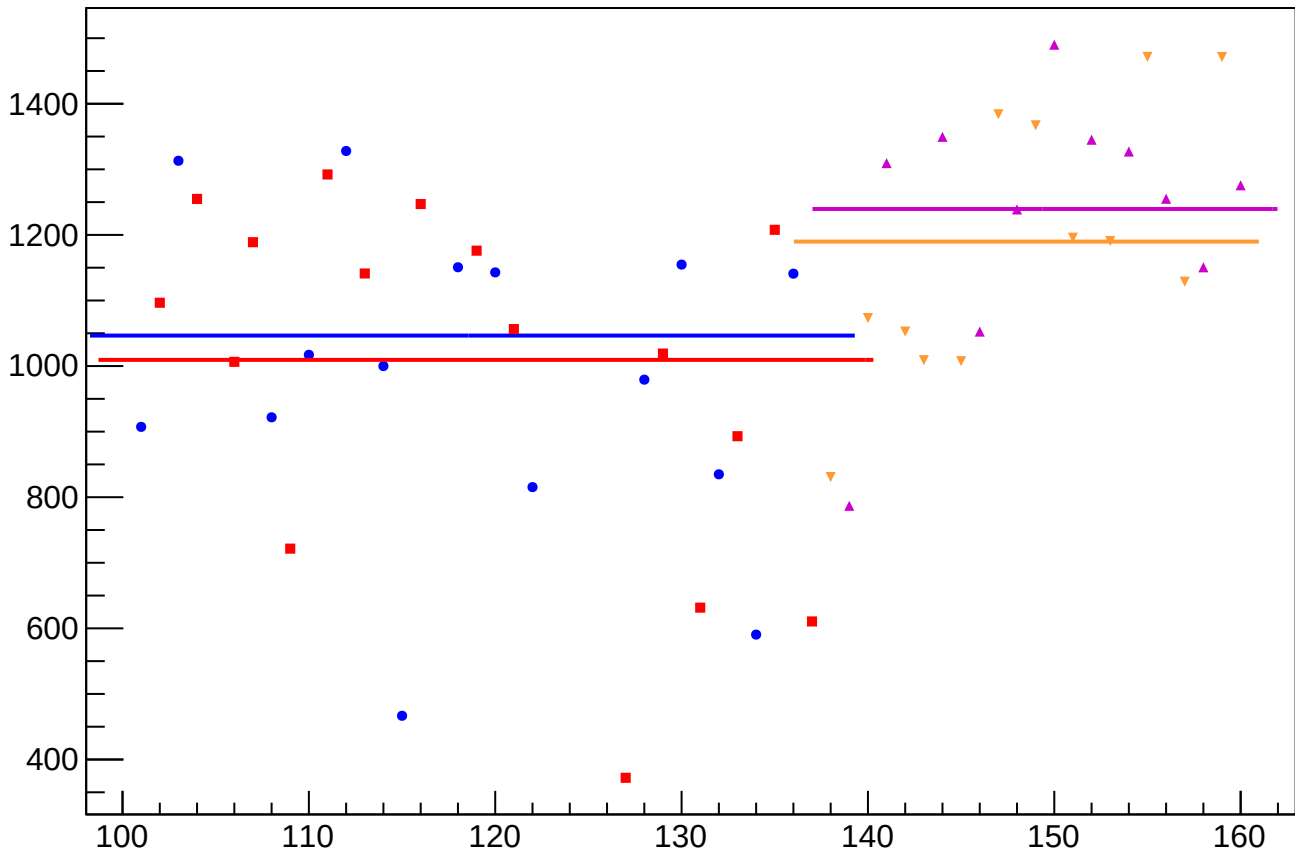
All: 1215.036+/-0.000  $\chi^2/\text{NDF}$ : 13988660809

Right Out: 849.827+/-0.000  $\chi^2/\text{NDF}$ : 204622224261577247702227312745197338624.0/15

- sign 1176.426+/-0.000  $\chi^2/\text{NDF}$ : 65965720923462

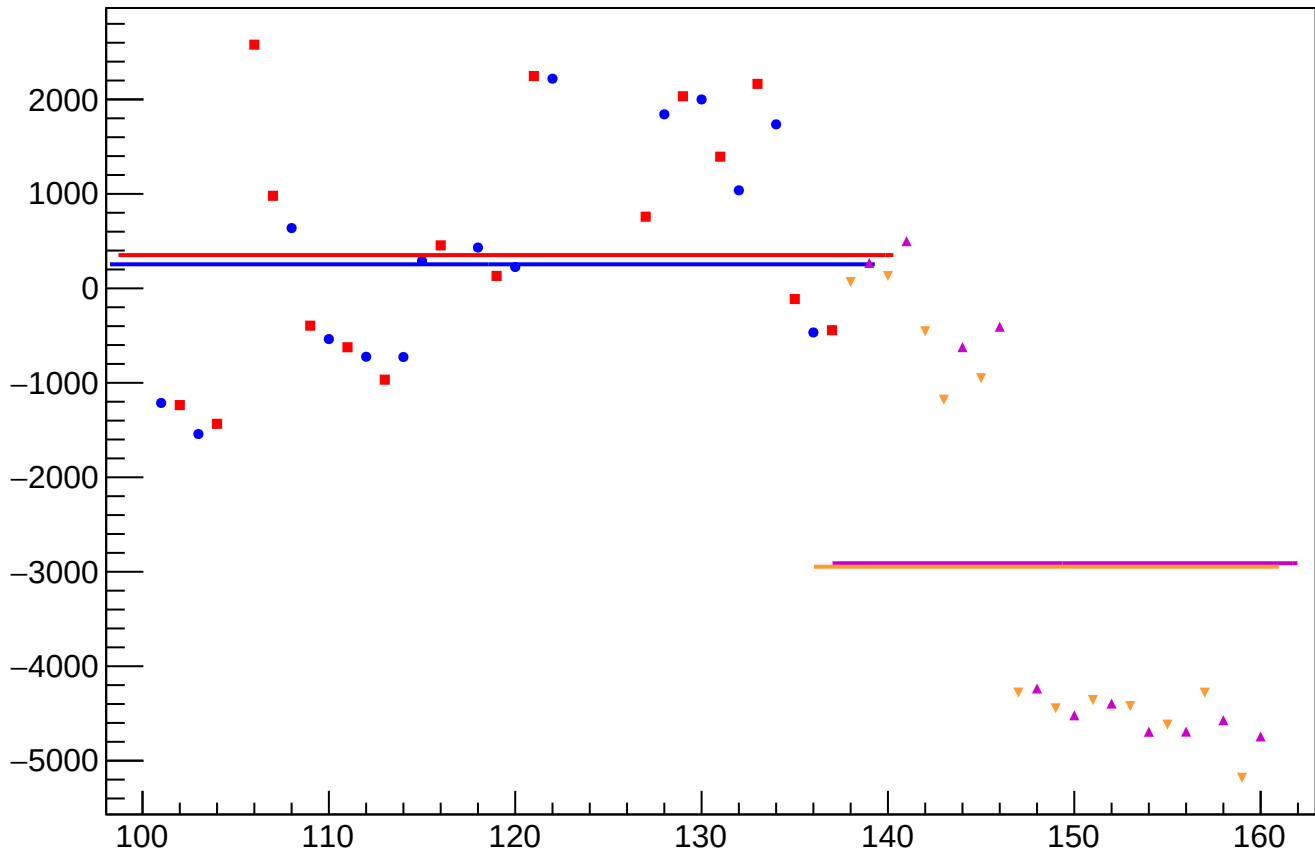
Left In: 1412.186+/-0.000  $\chi^2/\text{NDF}$ : 332529390934897118157875972661756035072.0/10

dit\_sam4\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14  
 Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11  
 Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15  
 Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

# dit\_sam5\_coil1\_mean vs Slug



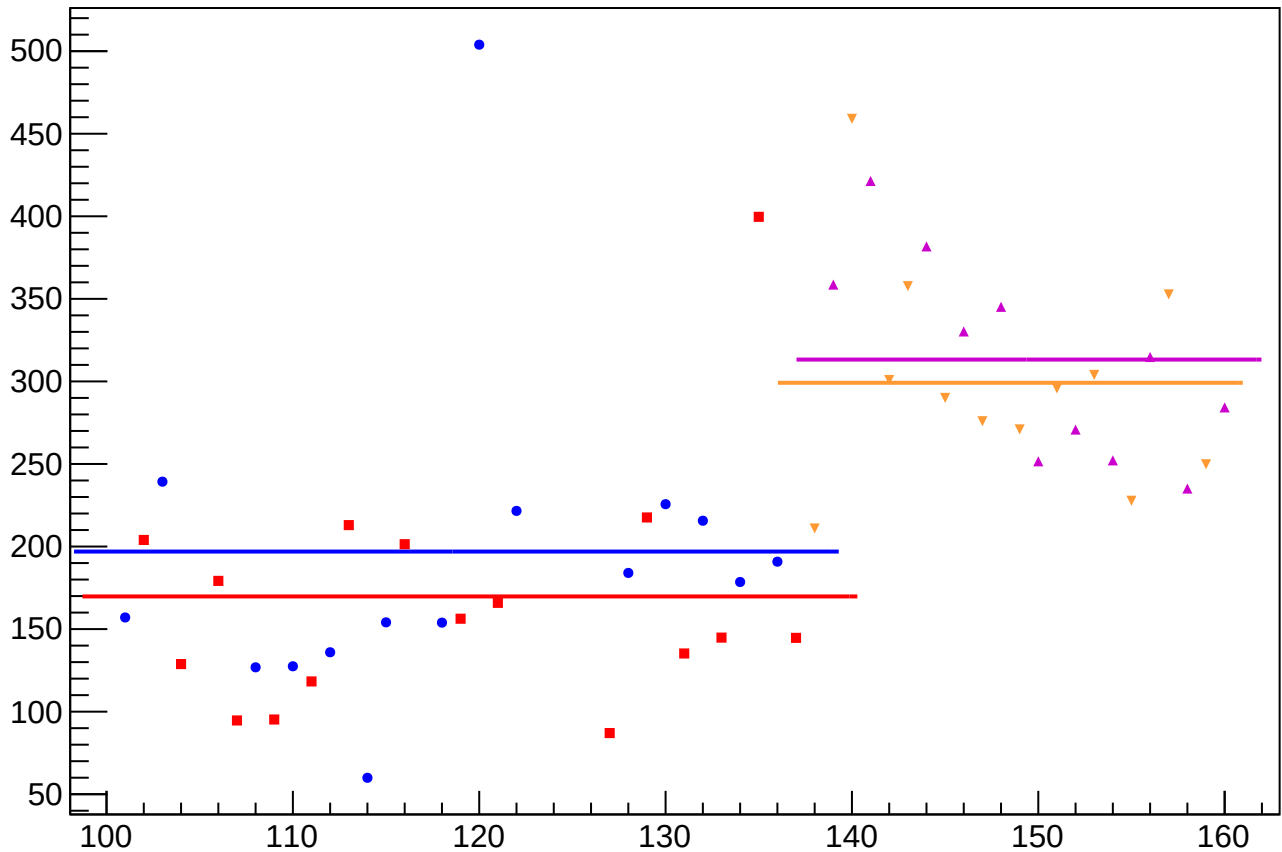
Right In: 254.578+/-0.000  $\chi^2/\text{NDF}$ : 978402113531006640741569223967249530880.0/14

Left Out: -2946.326+/-0.000  $\chi^2/\text{NDF}$ : 3731127313953628227585948865105357701120.0/11

Right Out: 352.308+/-0.000  $\chi^2/\text{NDF}$ : 1100813647101508513447529068154010468352.0/15

Left In: -2909.545+/-0.000  $\chi^2/\text{NDF}$ : 4377323512278558404902073126276443406336.0/10

dit\_sam5\_coil1\_err\_mean vs Slug



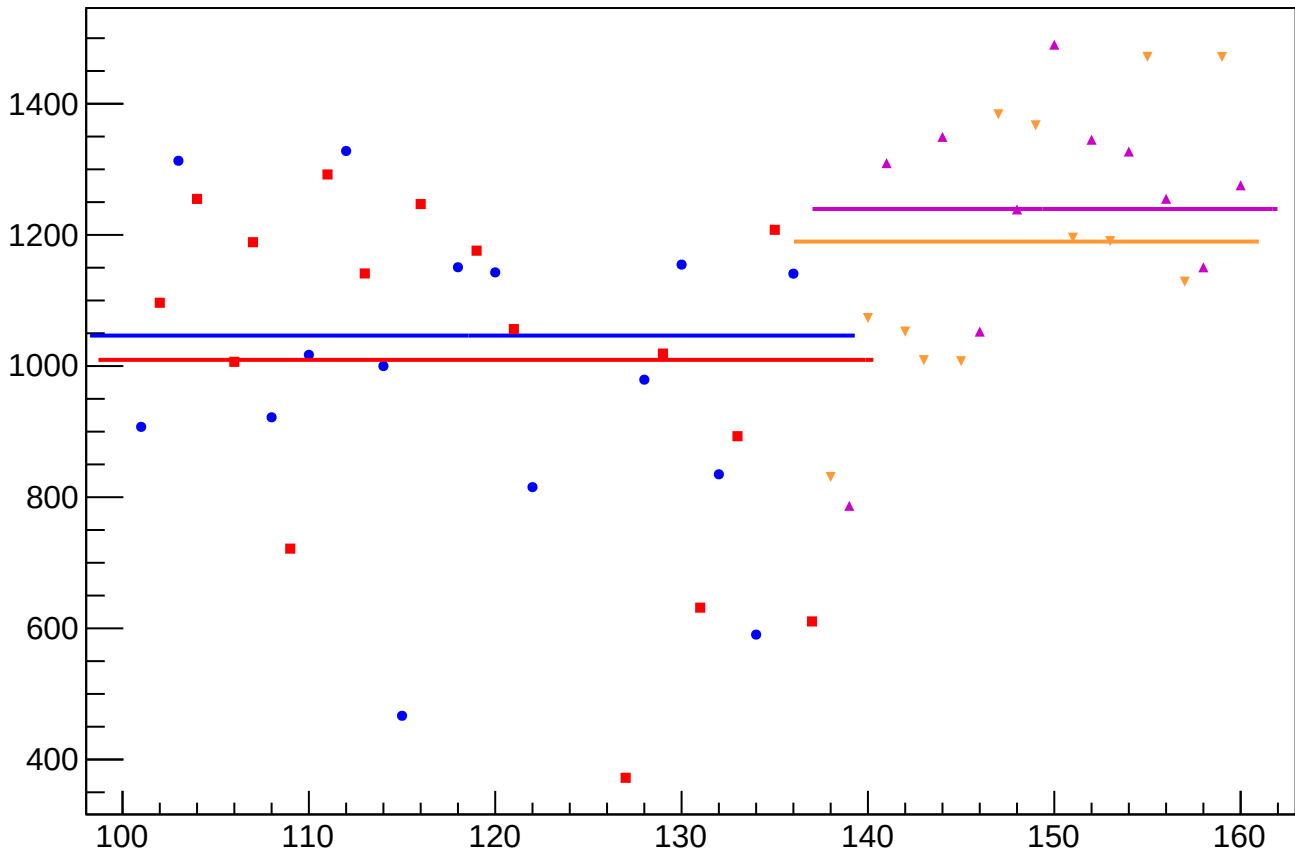
|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Right In: 196.955+/-0.000  | $\chi^2/\text{NDF}$ : 4485245160329657914621372425838788608.0/14 |
| Left Out: 299.172+/-0.000  | $\chi^2/\text{NDF}$ : 3880381264543200500455029030889979904.0/11 |
| Right Out: 169.778+/-0.000 | $\chi^2/\text{NDF}$ : 3892609445494845784493558646385410048.0/15 |
| Left In: 313.228+/-0.000   | $\chi^2/\text{NDF}$ : 3079061701843560714774529768142405632.0/10 |

+ sign 256.810+/-0.000  $\chi^2/\text{NDF}$ : 123362788109391

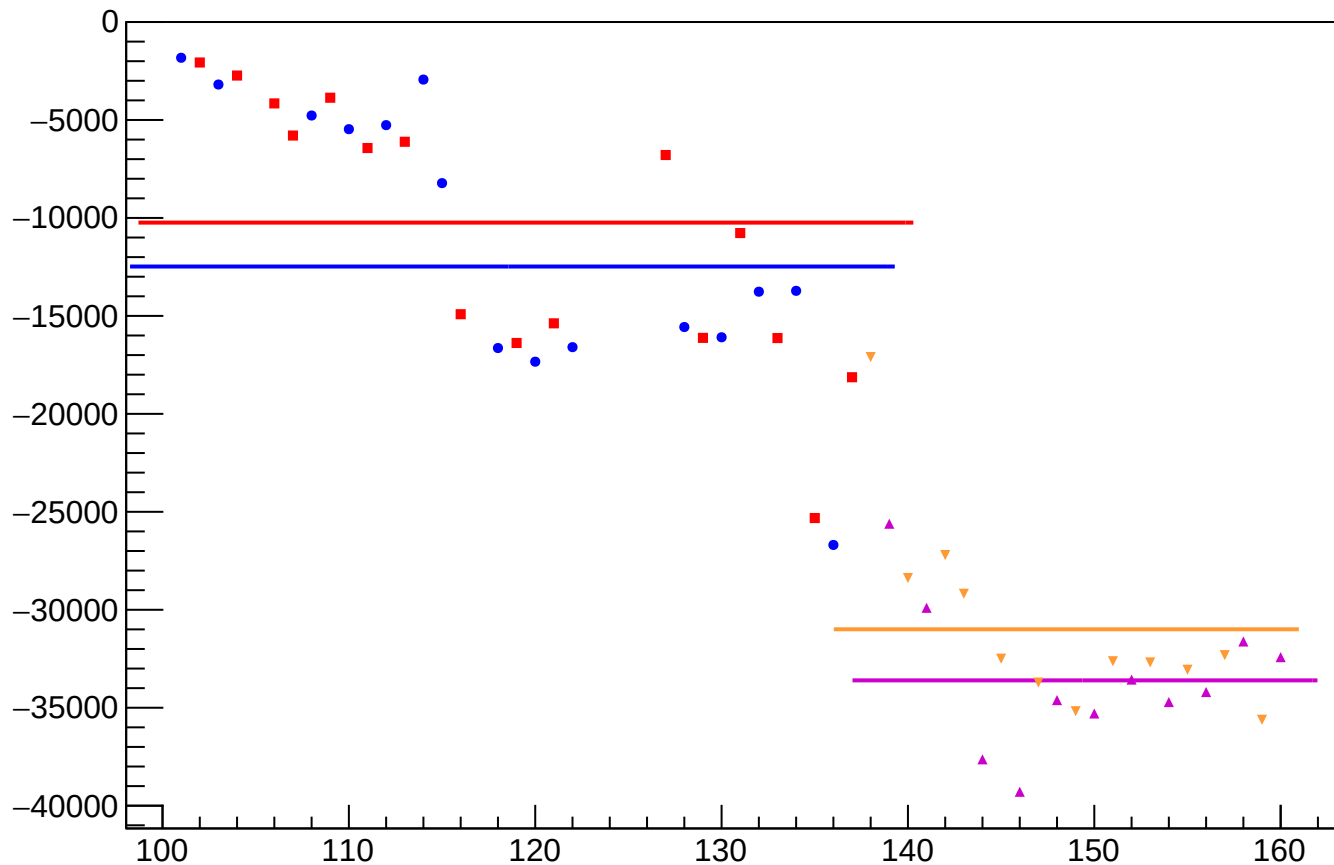
All: 254.935+/-0.000  $\chi^2/\text{NDF}$ : 272901074143

- sign 253.089+/-0.000  $\chi^2/\text{NDF}$ : 149429007533601

dit\_sam5\_coil1\_Ndata\_mean vs Slug

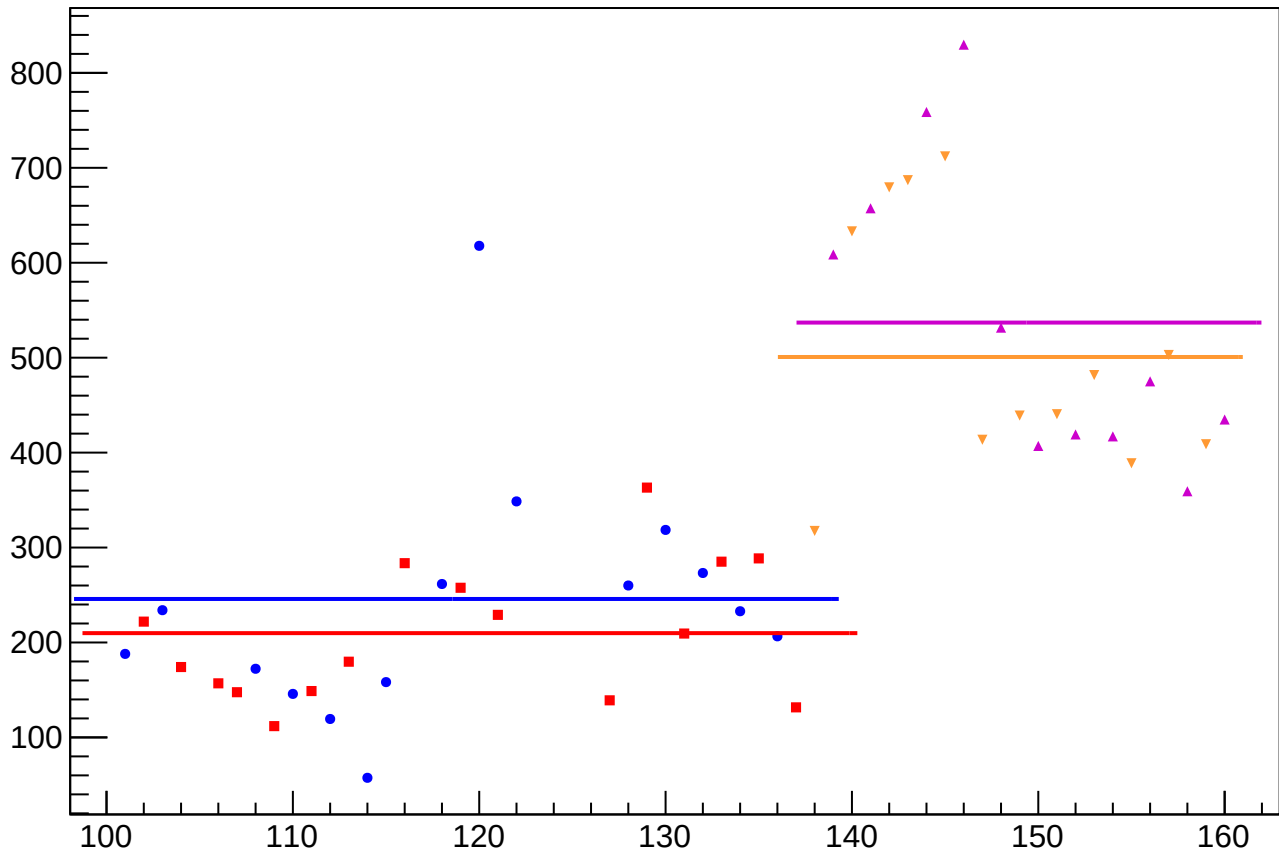


dit\_sam6\_coil1\_mean vs Slug



Right In: -12479.653+/-0.000  $\chi^2/\text{NDF}$ : 41178633231253805317353333973475271901184.0/14  
 Left Out: -30994.631+/-0.000  $\chi^2/\text{NDF}$ : 21360802405540775794048943647973709971456.0/11  
 Right Out: -10238.098+/-0.000  $\chi^2/\text{NDF}$ : 31227861126159534031961501923223718068224.0/15  
 Left In: -33603.125+/-0.000  $\chi^2/\text{NDF}$ : 11377877741280377988076632069746943066112.0/10

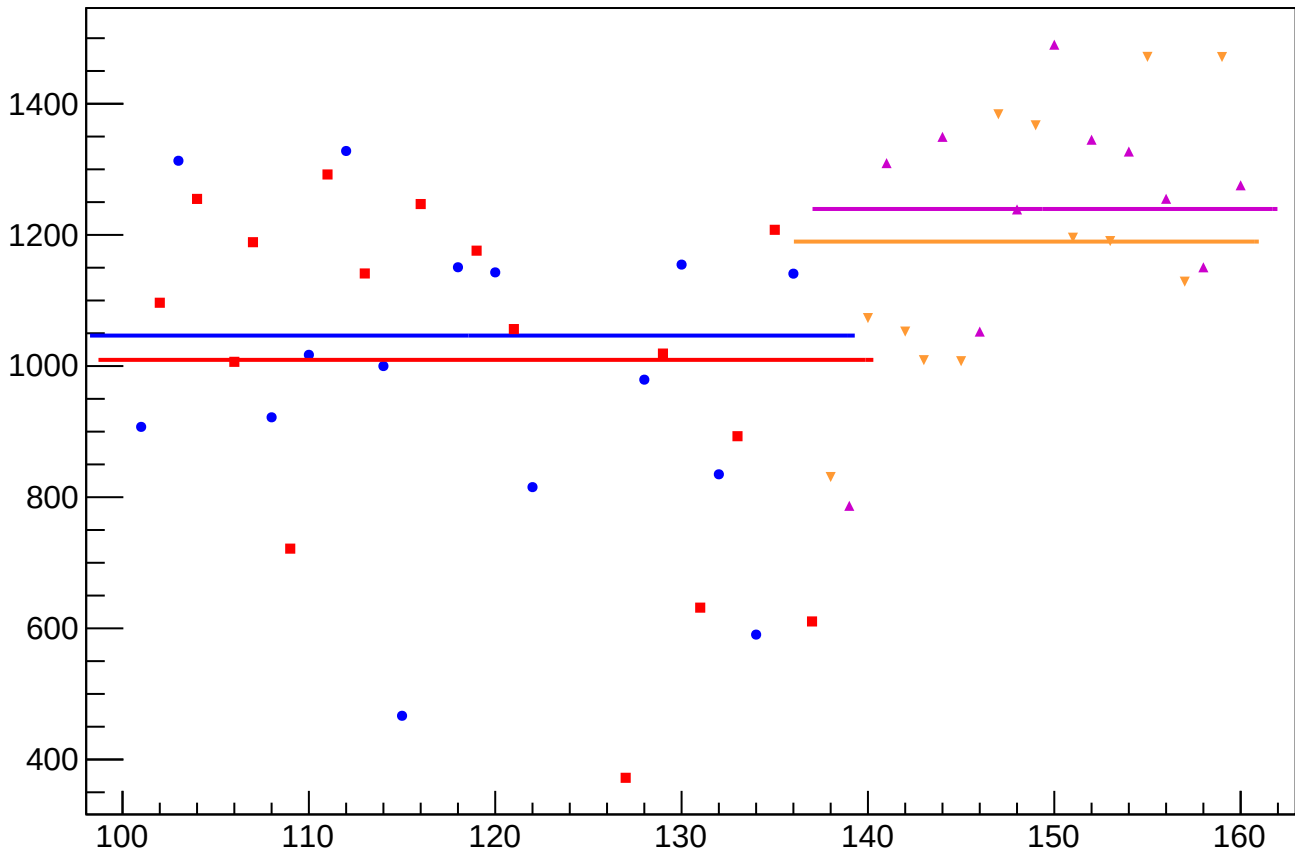
dit\_sam6\_coil1\_err\_mean vs Slug



Right In: 245.832+/-0.000  $\chi^2/\text{NDF}$ : 7828269009300013139414476154059358208.0/14  
 Left Out: 500.722+/-0.000  $\chi^2/\text{NDF}$ : 14366647854030986801089252354911371264.0/11  
 Right Out: 209.844+/-0.000  $\chi^2/\text{NDF}$ : 3128489258838765241921217786024034304.0/15  
 Left In: 536.975+/-0.000  $\chi^2/\text{NDF}$ : 20803022486400810956958367719555596288.0/10

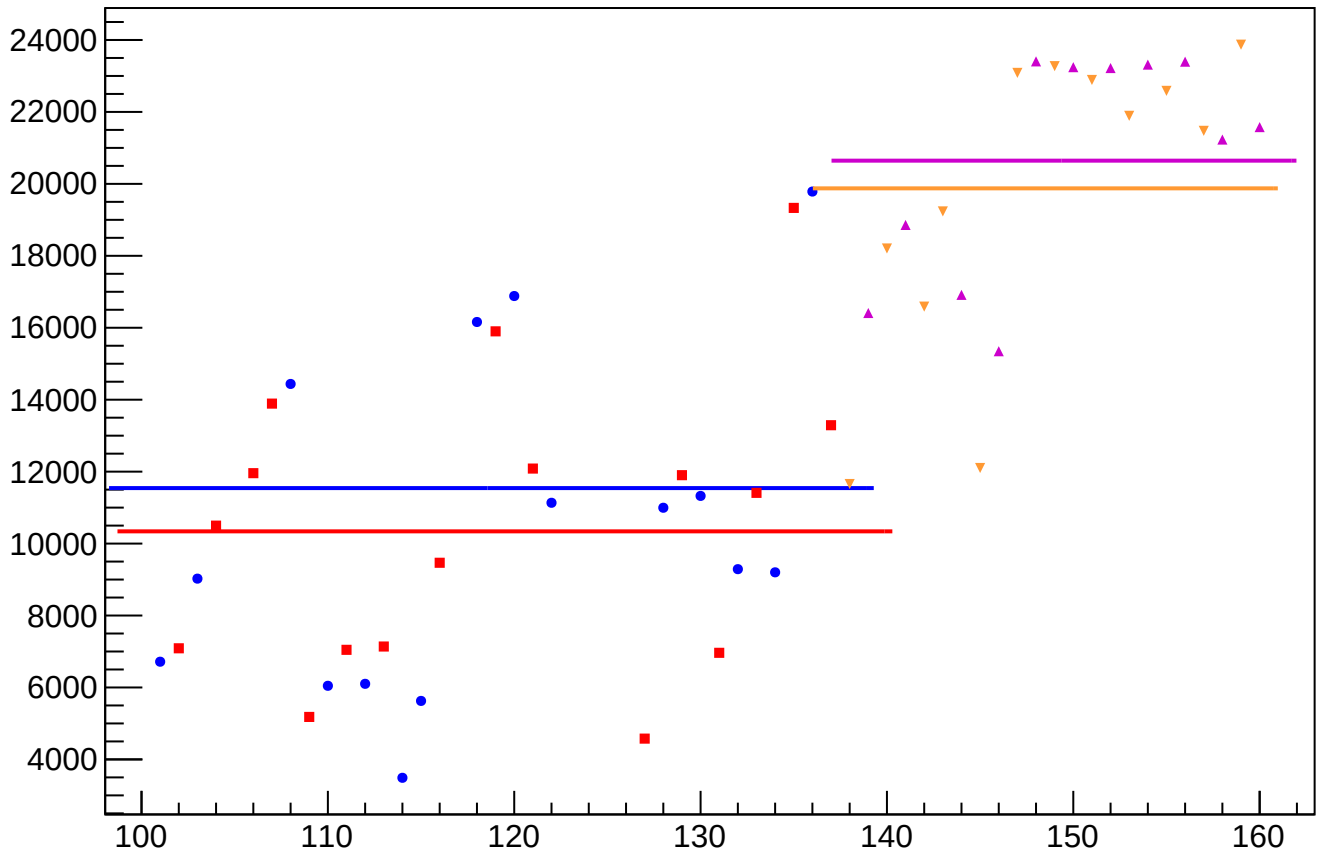


dit\_sam6\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14  
 Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11  
 Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15  
 Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

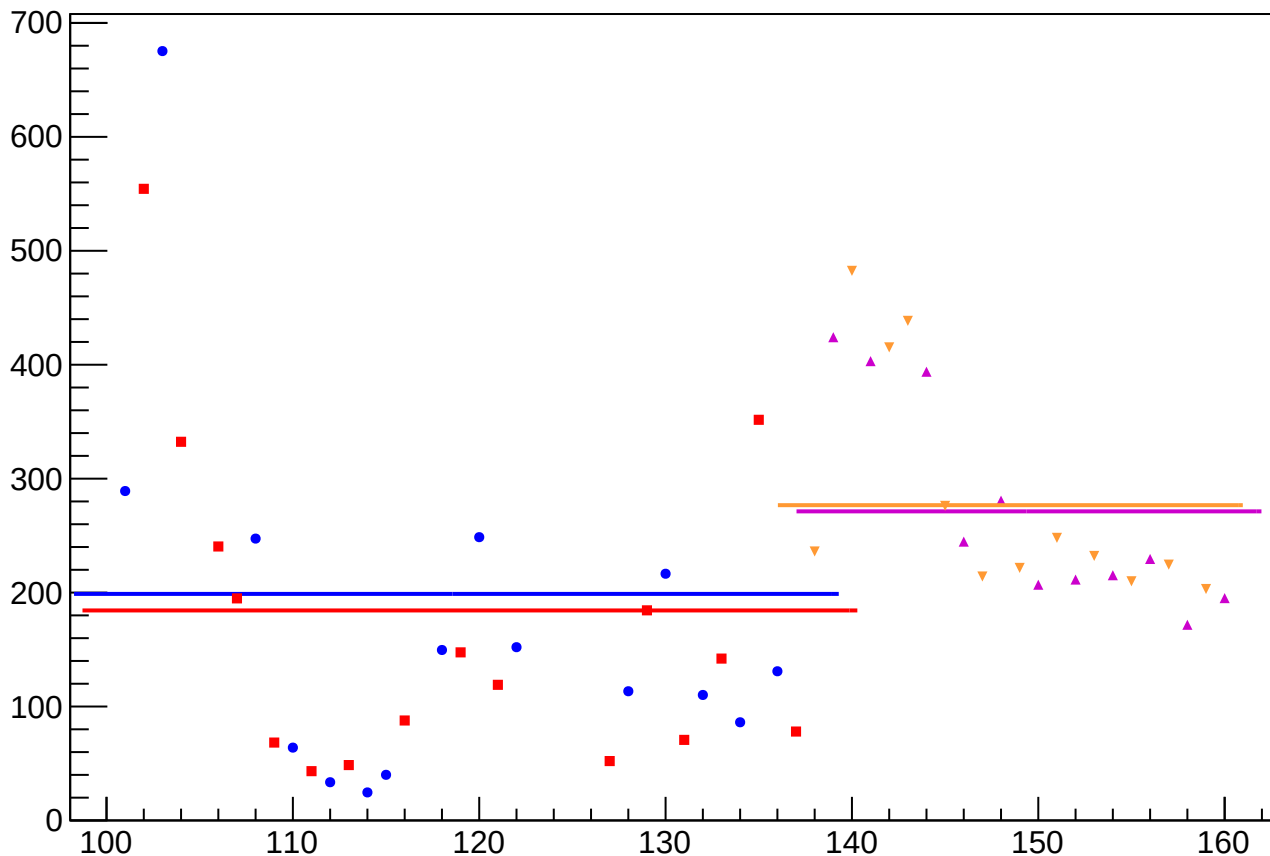
# dit\_sam7\_coil1\_mean vs Slug



Right In: 11542.759+/-0.000  $\chi^2/\text{NDF}$ : 14233543123238566357226766219014687424512.0/14  
 Left Out: 19875.162+/-0.000  $\chi^2/\text{NDF}$ : 15802196643449462198483400956357455642624.0/11  
 Right Out: 10339.969+/-0.000  $\chi^2/\text{NDF}$ : 11260833863406751645923420062982418202624.0/15  
 Left In: 20645.358+/-0.000  $\chi^2/\text{NDF}$ : 8456327376882782804888899010558833983488.0/10

+ sign 16421.950+/-0.000  $\chi^2/\text{NDF}$ : 5642108511400  
 All: 16373.090+/-0.000  $\chi^2/\text{NDF}$ : 1172849233  
 - sign 16324.997+/-0.000  $\chi^2/\text{NDF}$ : 6085641974902

dit\_sam7\_coil1\_err\_mean vs Slug



Right In: 198.850+/-0.000  $\chi^2/\text{NDF}$ : 18333995109503438037075916944440295424.0/14

Left Out: 276.729+/-0.000  $\chi^2/\text{NDF}$ : 8031577970080371618596427688692416512.0/11

Right Out: 184.328+/-0.000  $\chi^2/\text{NDF}$ : 14927434931395588601024961538372403200.0/15

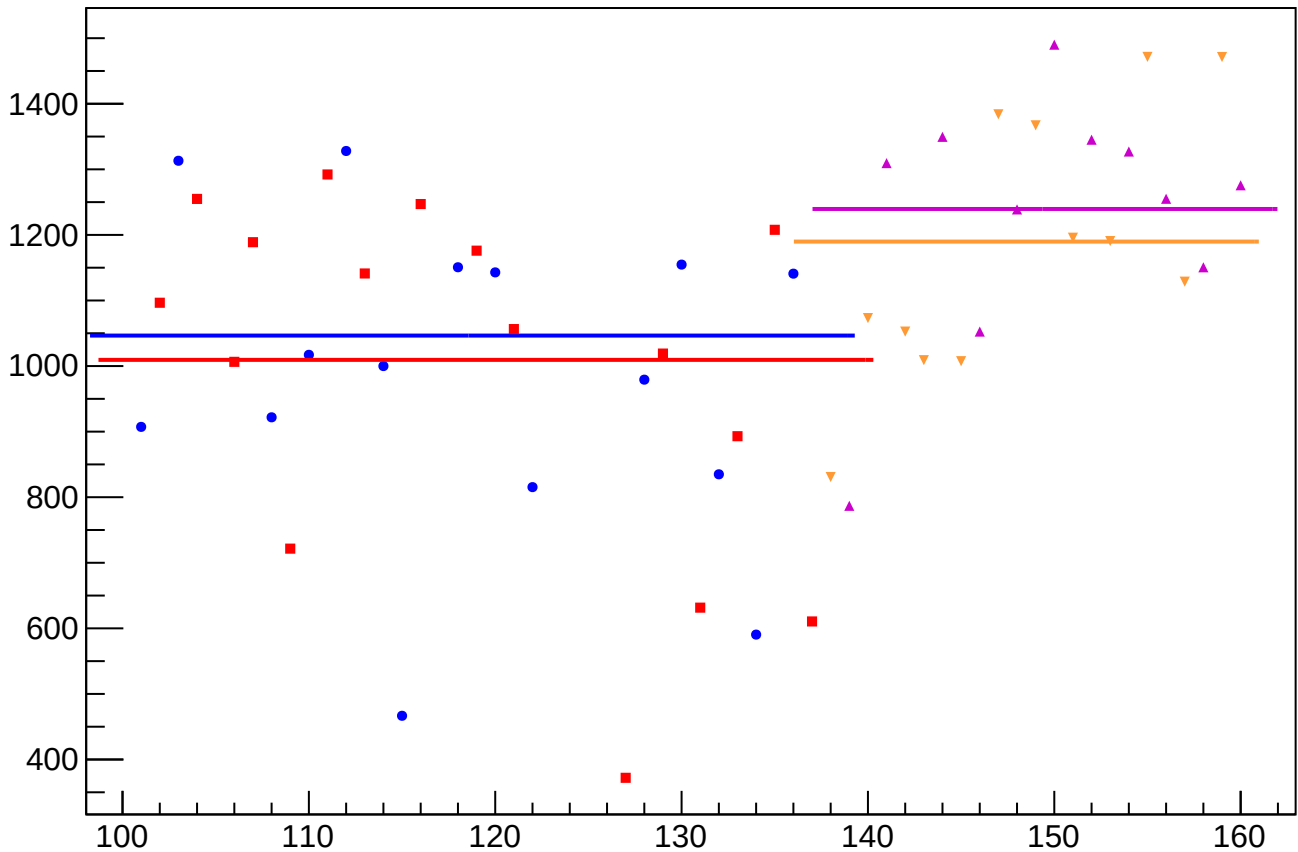
Left In: 271.291+/-0.000  $\chi^2/\text{NDF}$ : 7112445981030520145066814103974051840.0/10

+ sign 244.454+/-0.000  $\chi^2/\text{NDF}$ : 286705297289177

All: 239.606+/-0.000  $\chi^2/\text{NDF}$ : 53712952906

- sign 234.833+/-0.000  $\chi^2/\text{NDF}$ : 249693821998186

dit\_sam7\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14

+ sign 1130.420+/-0.000  $\chi^2/\text{NDF}$ : 68161846076800

Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11

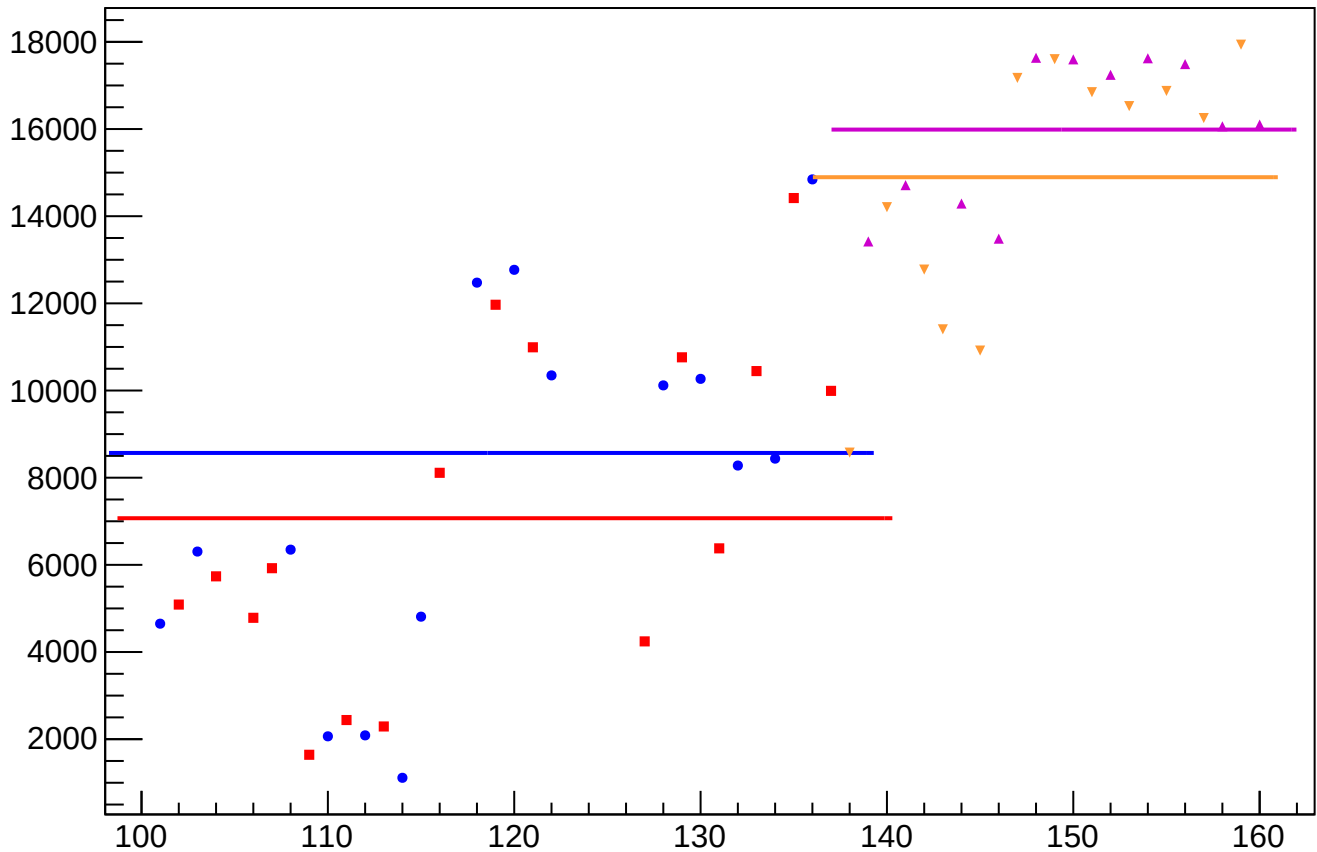
All: 1136.802+/-0.000  $\chi^2/\text{NDF}$ : 16251853607

Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15

- sign 1143.084+/-0.000  $\chi^2/\text{NDF}$ : 94230119572030

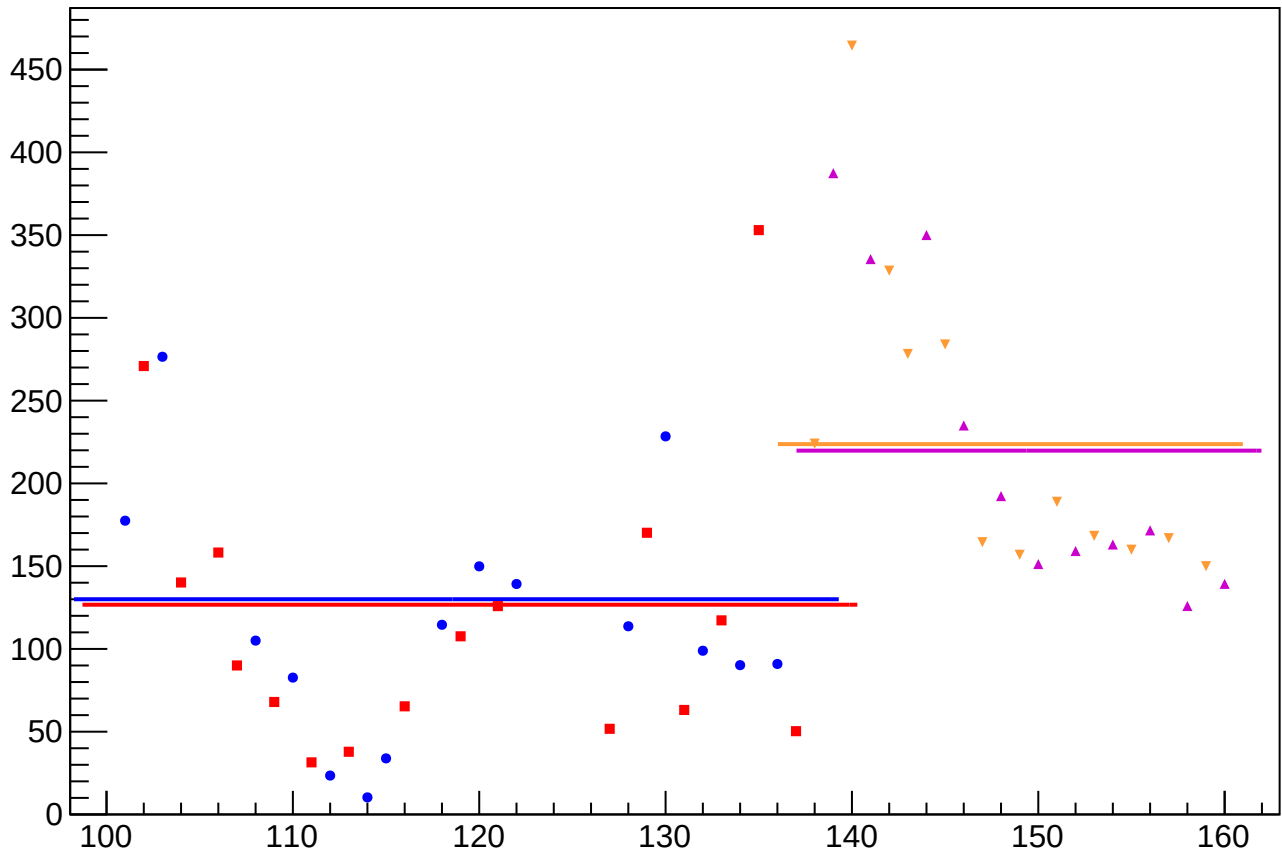
Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

# dit\_sam8\_coil1\_mean vs Slug



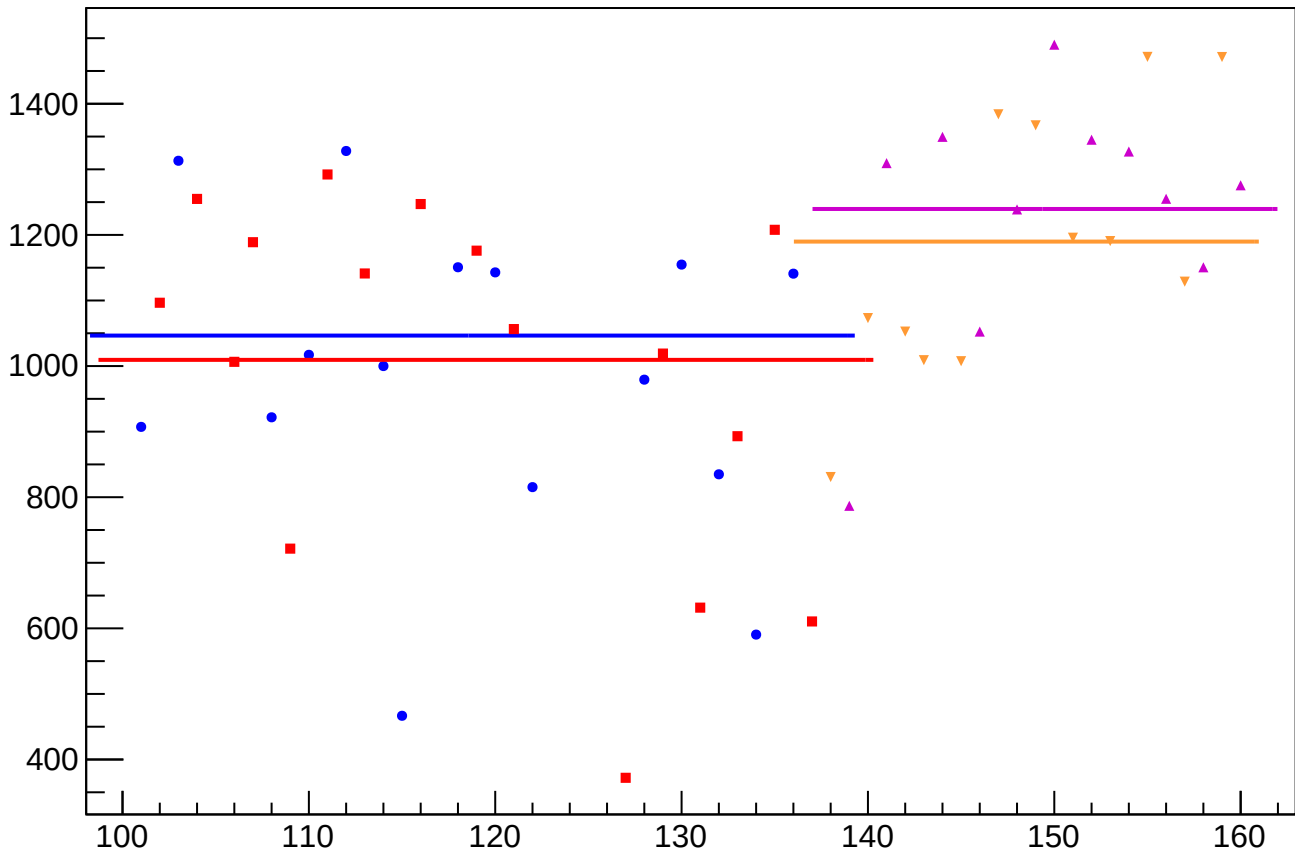
Right In: 8567.784+/-0.000  $\chi^2/\text{NDF}$ : 11106048878972501366429055679645708451840.0/14  
 Left Out: 14894.671+/-0.000  $\chi^2/\text{NDF}$ : 8196994251162162548782617513195066097664.0/11  
 Right Out: 7069.884+/-0.000  $\chi^2/\text{NDF}$ : 10076862363502652111378210539664387866624.0/15  
 Left In: 15987.436+/-0.000  $\chi^2/\text{NDF}$ : 2470393428254815728629083332629999124480.0/10

dit\_sam8\_coil1\_err\_mean vs Slug



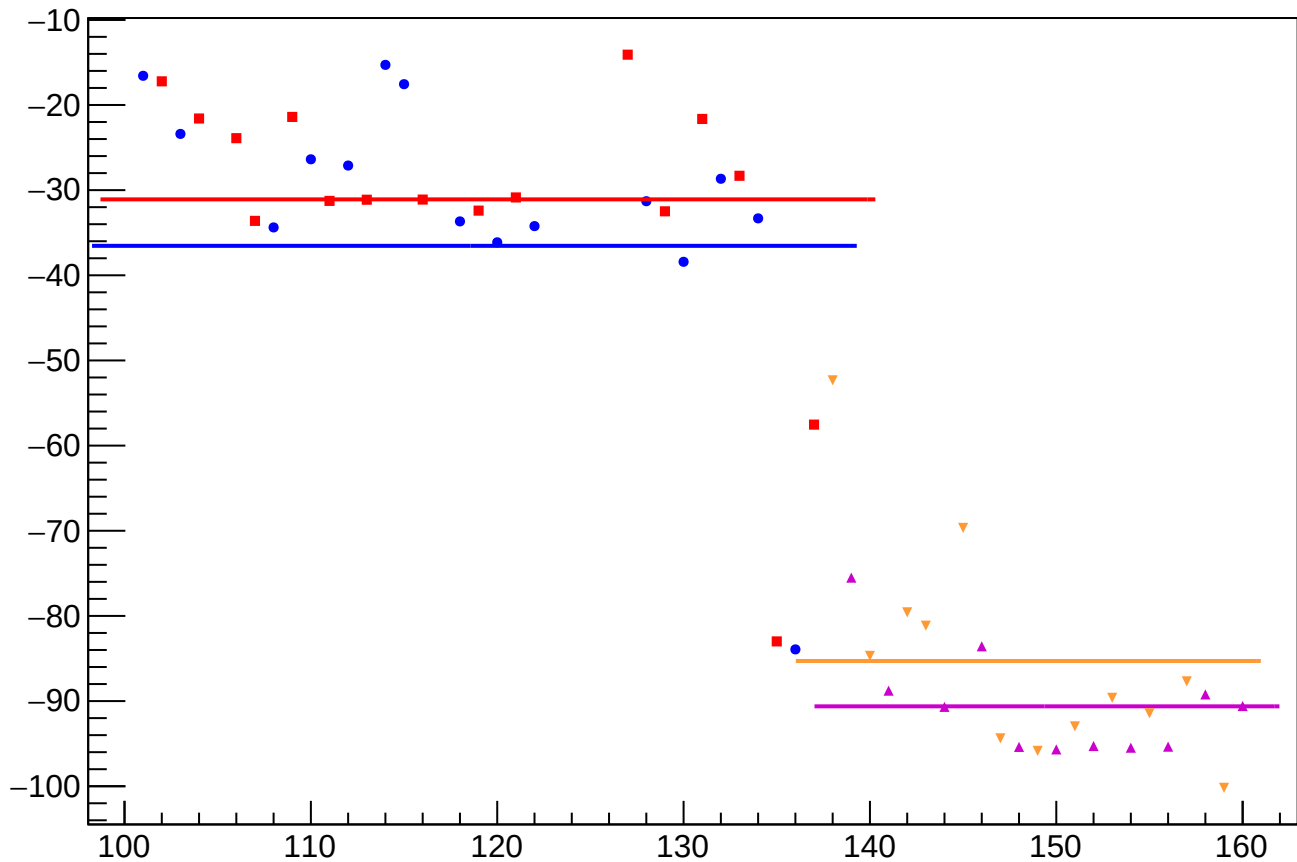
|                            |                                                                  |                        |                                       |
|----------------------------|------------------------------------------------------------------|------------------------|---------------------------------------|
| Right In: 130.021+/-0.000  | $\chi^2/\text{NDF}$ : 3115259987552341725946418665378283520.0/14 | + sign 184.890+/-0.000 | $\chi^2/\text{NDF}$ : 142219159421925 |
| Left Out: 223.724+/-0.000  | $\chi^2/\text{NDF}$ : 7769866101258790132911352573971136512.0/11 | All: 182.811+/-0.000   | $\chi^2/\text{NDF}$ : 30407074428     |
| Right Out: 126.709+/-0.000 | $\chi^2/\text{NDF}$ : 5397122581297664561308621600668516352.0/15 | - sign 180.765+/-0.000 | $\chi^2/\text{NDF}$ : 161717315752514 |
| Left In: 219.787+/-0.000   | $\chi^2/\text{NDF}$ : 7418609629454172879787970620999860224.0/10 |                        |                                       |

dit\_sam8\_coil1\_Ndata\_mean vs Slug



Right In: 1046.490+/-0.000  $\chi^2/\text{NDF}$ : 24866624766048512267031234680614551552.0/14  
 Left Out: 1189.821+/-0.000  $\chi^2/\text{NDF}$ : 35487872642876563282140008444600516608.0/11  
 Right Out: 1009.445+/-0.000  $\chi^2/\text{NDF}$ : 44602783681728168935494176019868286976.0/15  
 Left In: 1239.553+/-0.000  $\chi^2/\text{NDF}$ : 29116180330425505242594030704390045696.0/10

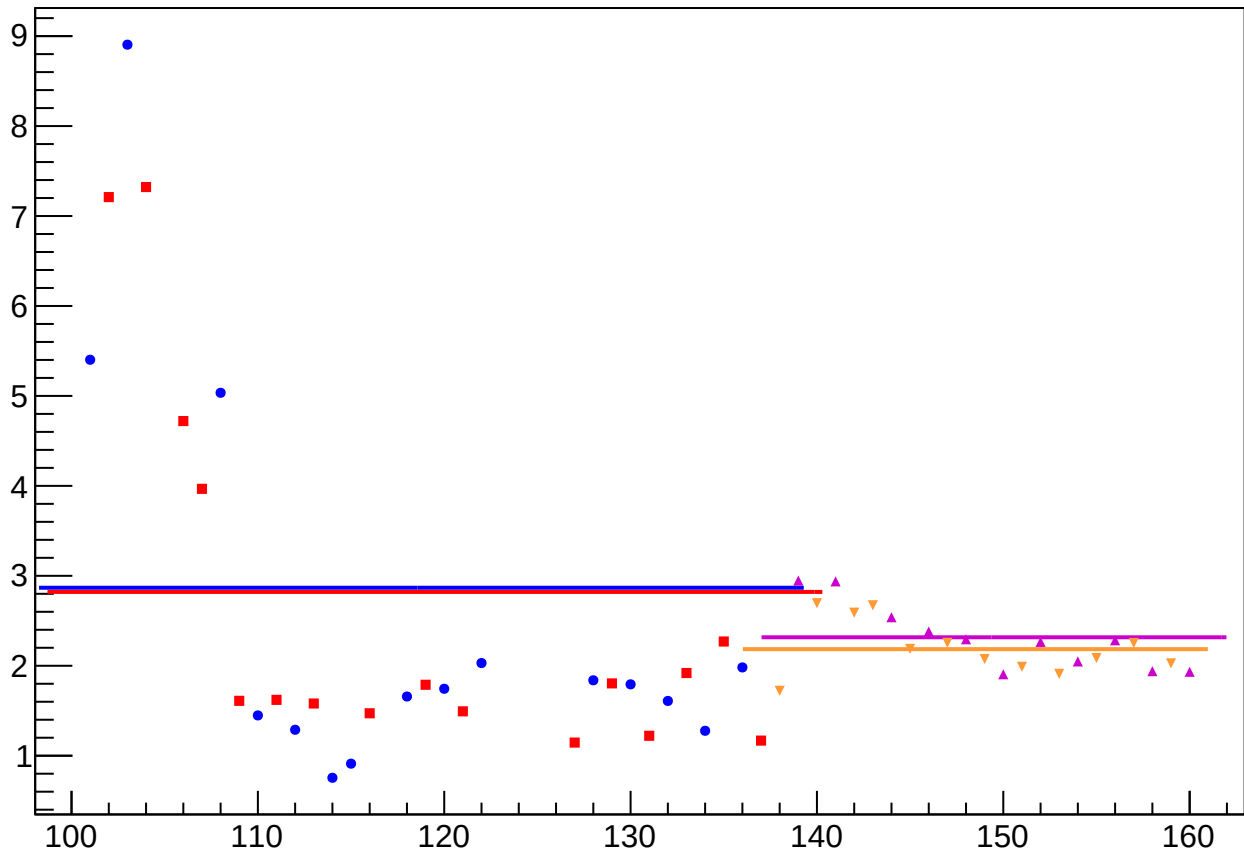
dit\_4aX\_coil3\_mean vs Slug



Right In: -36.540 $\pm$ 0.000  $\chi^2$ /NDF: 254351867861444609202637633864335360.0/14  
 Left Out: -85.291 $\pm$ 0.000  $\chi^2$ /NDF: 150335186575692047525398073172819968.0/11  
 Right Out: -31.085 $\pm$ 0.000  $\chi^2$ /NDF: 181291079119381636178408498876383232.0/15  
 Left In: -90.618 $\pm$ 0.000  $\chi^2$ /NDF: 33089833083626408117297955498622976.0/10



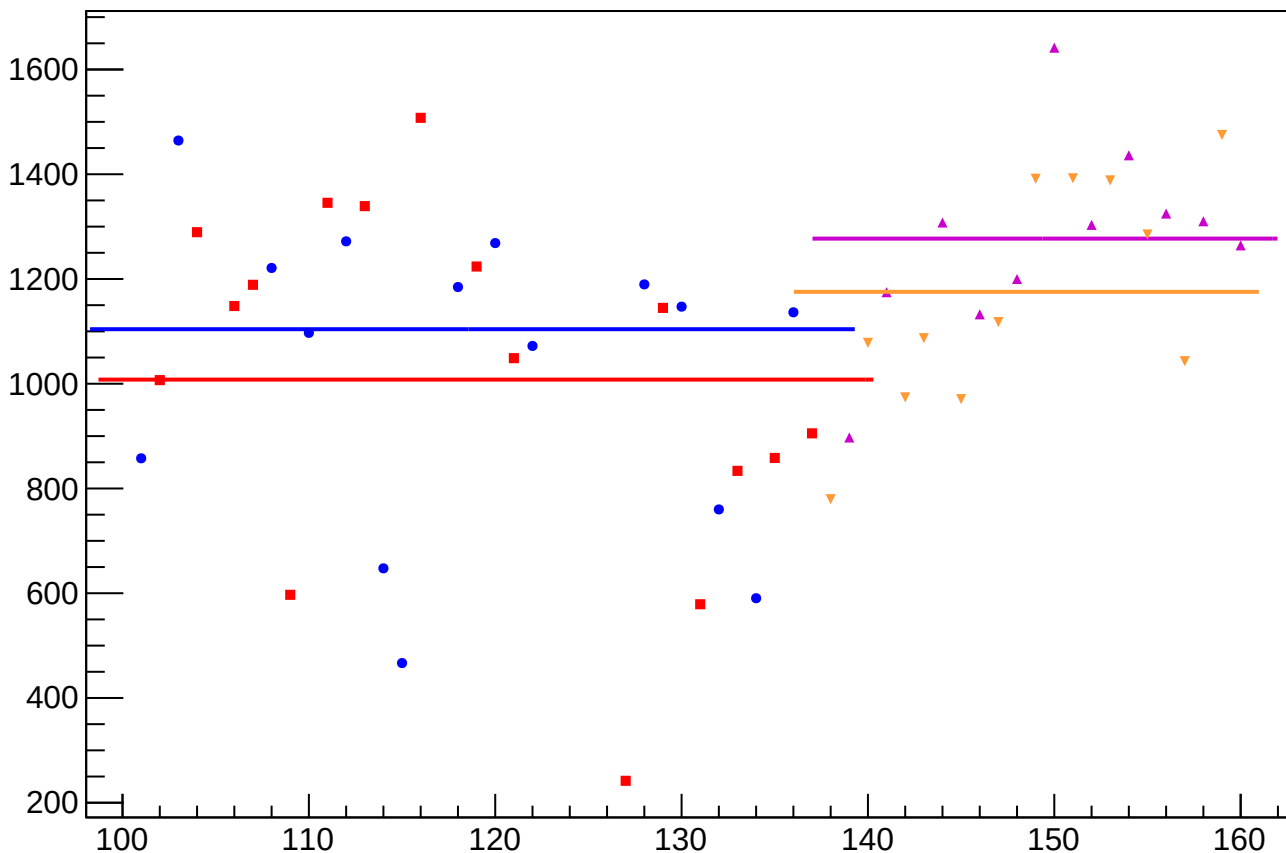
dit\_4aX\_coil3\_err\_mean vs Slug



Right In: 2.867 $\pm$ 0.000  $\chi^2$ /NDF: 3455499087584693564208174061322240.0/14  
 Left Out: 2.185 $\pm$ 0.000  $\chi^2$ /NDF: 75501266637773006003816821161984.0/11  
 Right Out: 2.821 $\pm$ 0.000  $\chi^2$ /NDF: 3052948718107902490497172912472064.0/15  
 Left In: 2.317 $\pm$ 0.000  $\chi^2$ /NDF: 114372564725079889099013285216256.0/10

+ sign 2.468 $\pm$ 0.000  $\chi^2$ /NDF: 37080423065586721  
 All: 2.498 $\pm$ 0.000  $\chi^2$ /NDF: 6976795394658  
 - sign 2.528 $\pm$ 0.000  $\chi^2$ /NDF: 32658845827885062

dit\_4aX\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

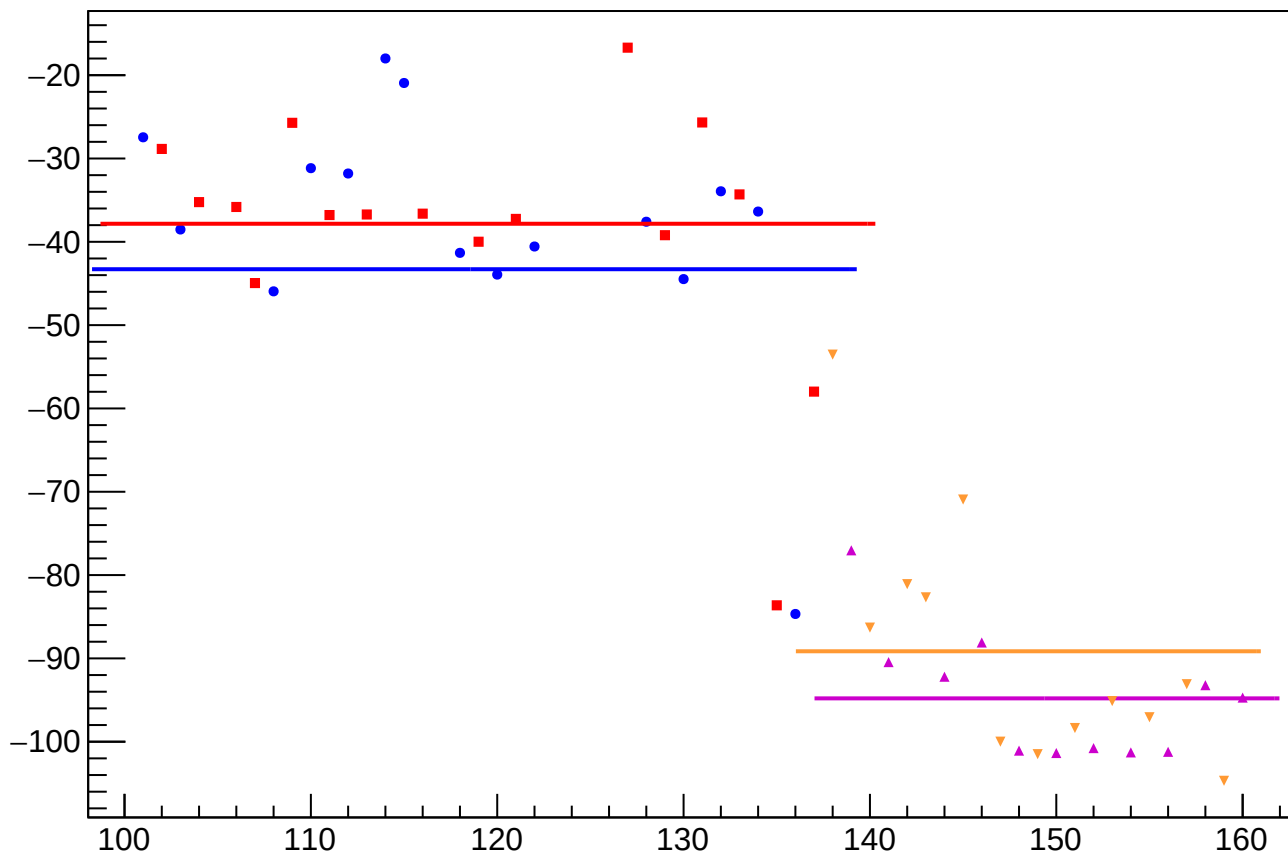
Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284.0/44

# dit\_4eX\_coil3\_mean vs Slug



Right In: -43.289+/-0.000  $\chi^2/\text{NDF}$ : 199342736778845281087197523996573696.0/14

Left Out: -89.146+/-0.000  $\chi^2/\text{NDF}$ : 189364483855471766611288200184856576.0/11

Right Out: -37.832+/-0.000  $\chi^2/\text{NDF}$ : 148683933977204936634636843897323520.0/15

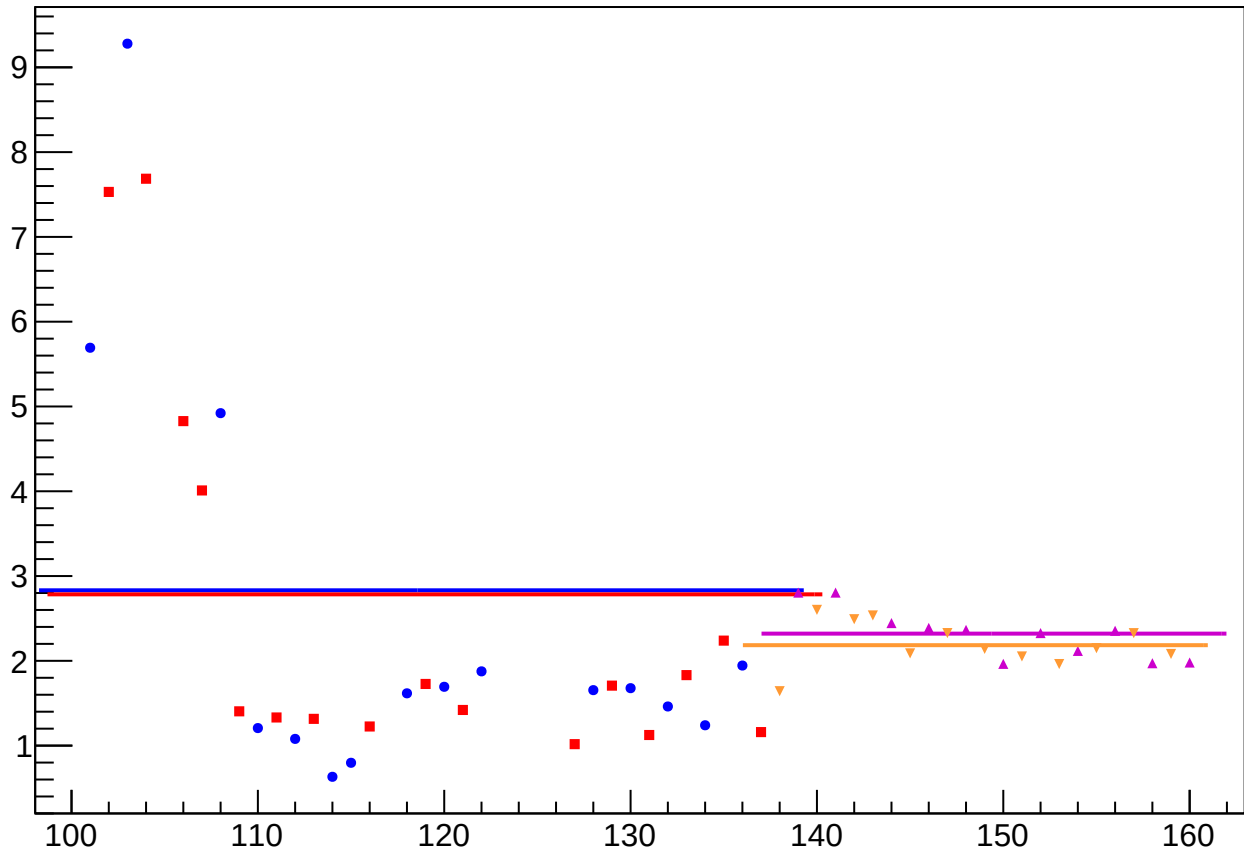
Left In: -94.799+/-0.000  $\chi^2/\text{NDF}$ : 49077050032611006982156968074936320.0/10

+ sign -70.142+/-0.000  $\chi^2/\text{NDF}$ : 118785787774979

All: -70.532+/-0.000  $\chi^2/\text{NDF}$ : 264319706173

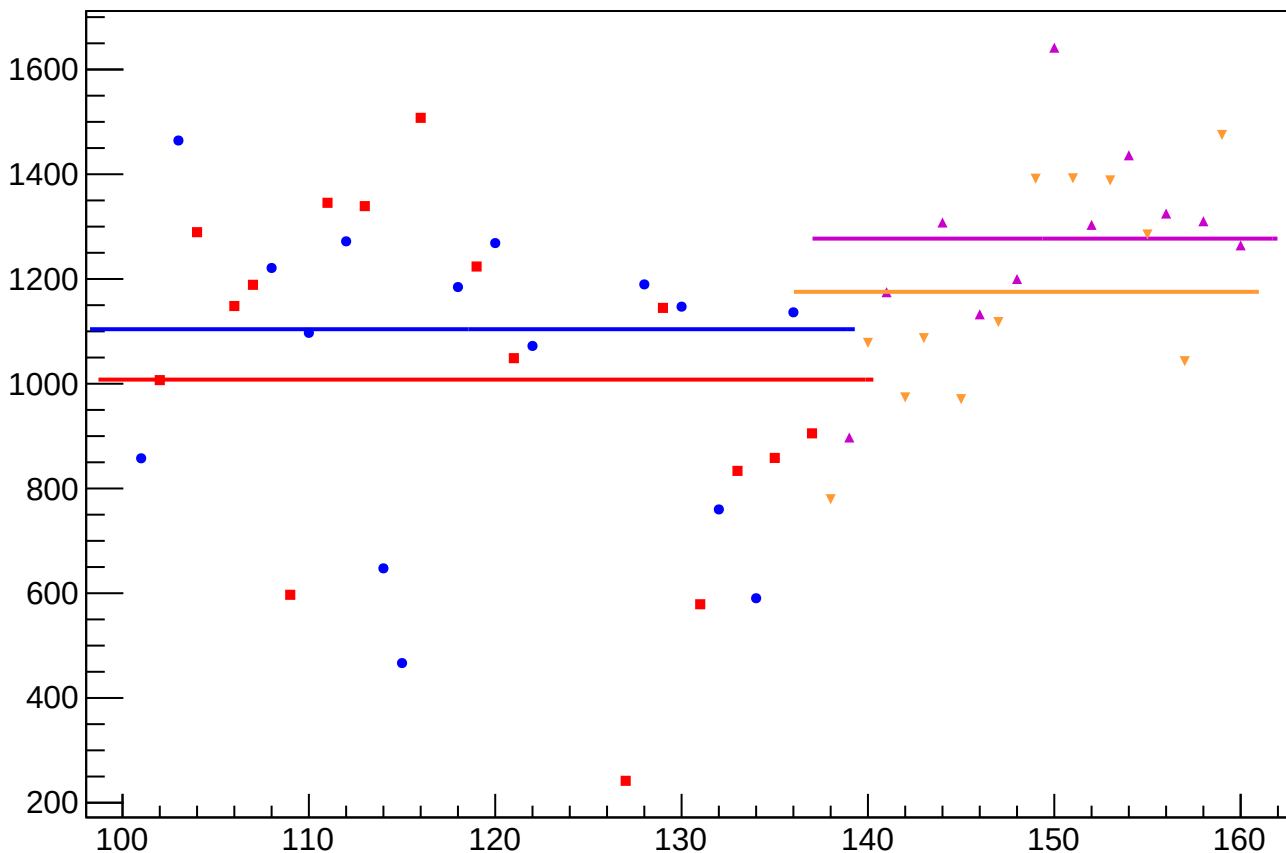
- sign -70.917+/-0.000  $\chi^2/\text{NDF}$ : 1454865139874700

dit\_4eX\_coil3\_err\_mean vs Slug



Right In:  $2.832 \pm 0.000$   $\chi^2/\text{NDF}$ : 3957672531929017328512564323155968.0/14  
 Left Out:  $2.185 \pm 0.000$   $\chi^2/\text{NDF}$ : 60382547029004782914122064855040.0/11  
 Right Out:  $2.784 \pm 0.000$   $\chi^2/\text{NDF}$ : 3589544956108116898091236897849344.0/15  
 Left In:  $2.321 \pm 0.000$   $\chi^2/\text{NDF}$ : 74619123224616324544404505231360.0/10

dit\_4eX\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

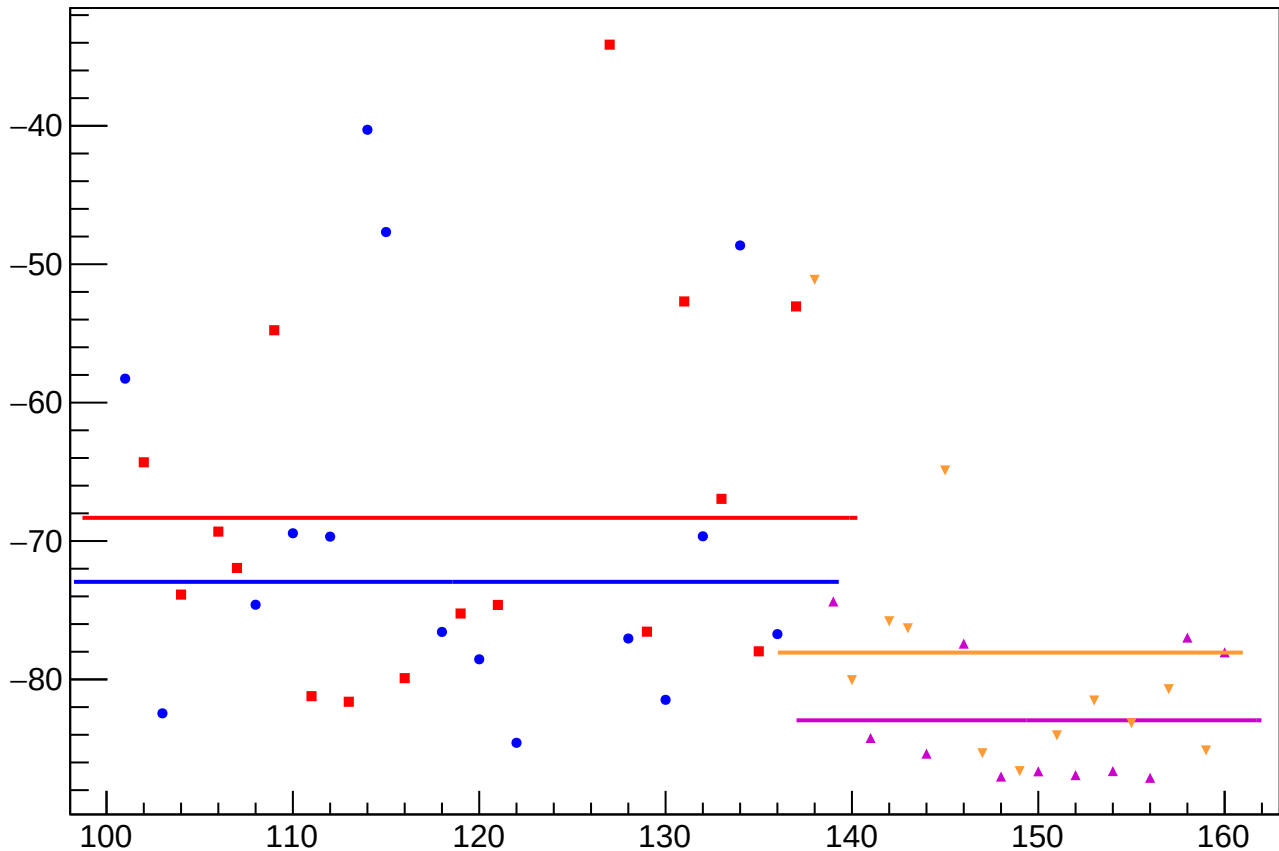
All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

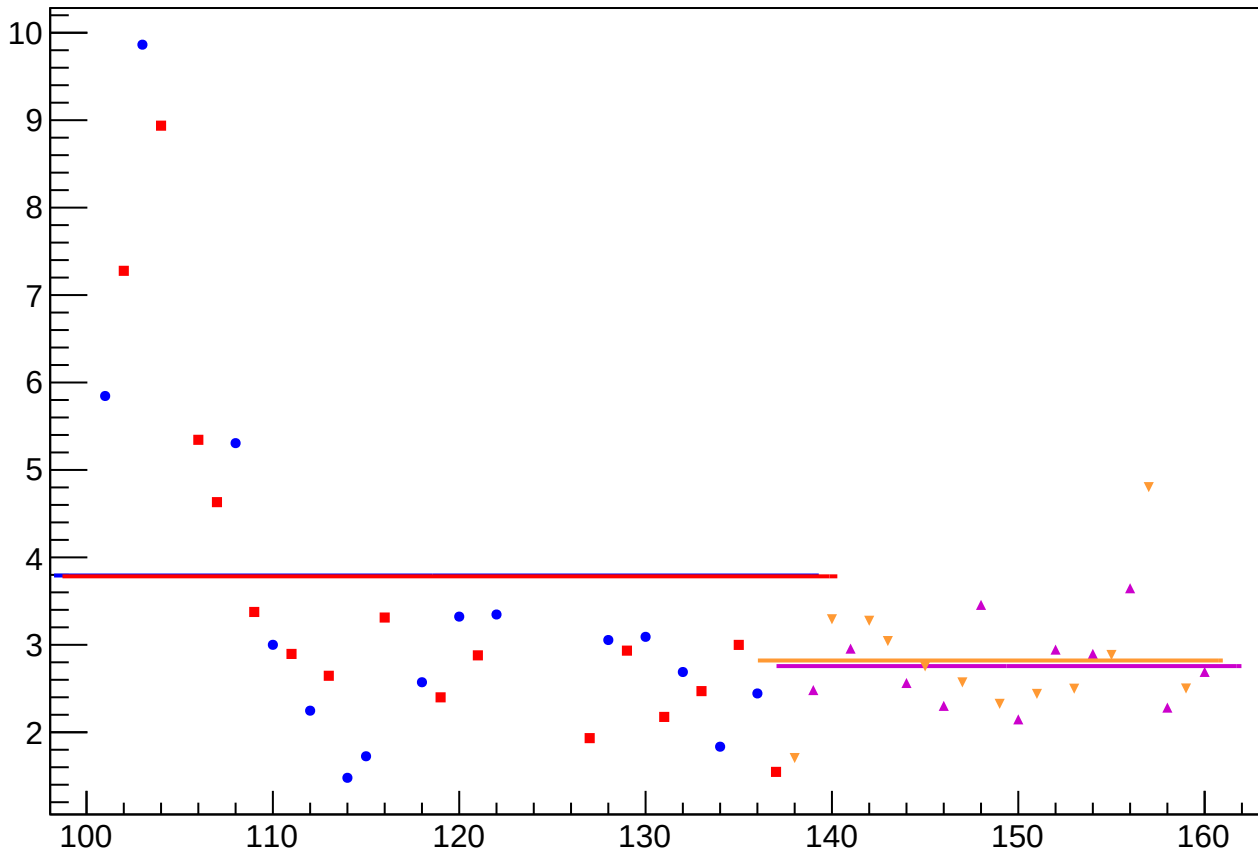
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

dit\_11X12X\_coil3\_mean vs Slug



Right In:  $-72.949 \pm 0.000$   $\chi^2/\text{NDF}$ : 65755428464857980306879126291087360.0/14  
 Left Out:  $-78.060 \pm 0.000$   $\chi^2/\text{NDF}$ : 92076989783561024991215559553056768.0/11  
 Right Out:  $-68.324 \pm 0.000$   $\chi^2/\text{NDF}$ : 106694344898202364483367131372584960.0/15  
 Left In:  $-82.954 \pm 0.000$   $\chi^2/\text{NDF}$ : 2041915777487297849205303170564096.0/10

dit\_11X12X\_coil3\_err\_mean vs Slug



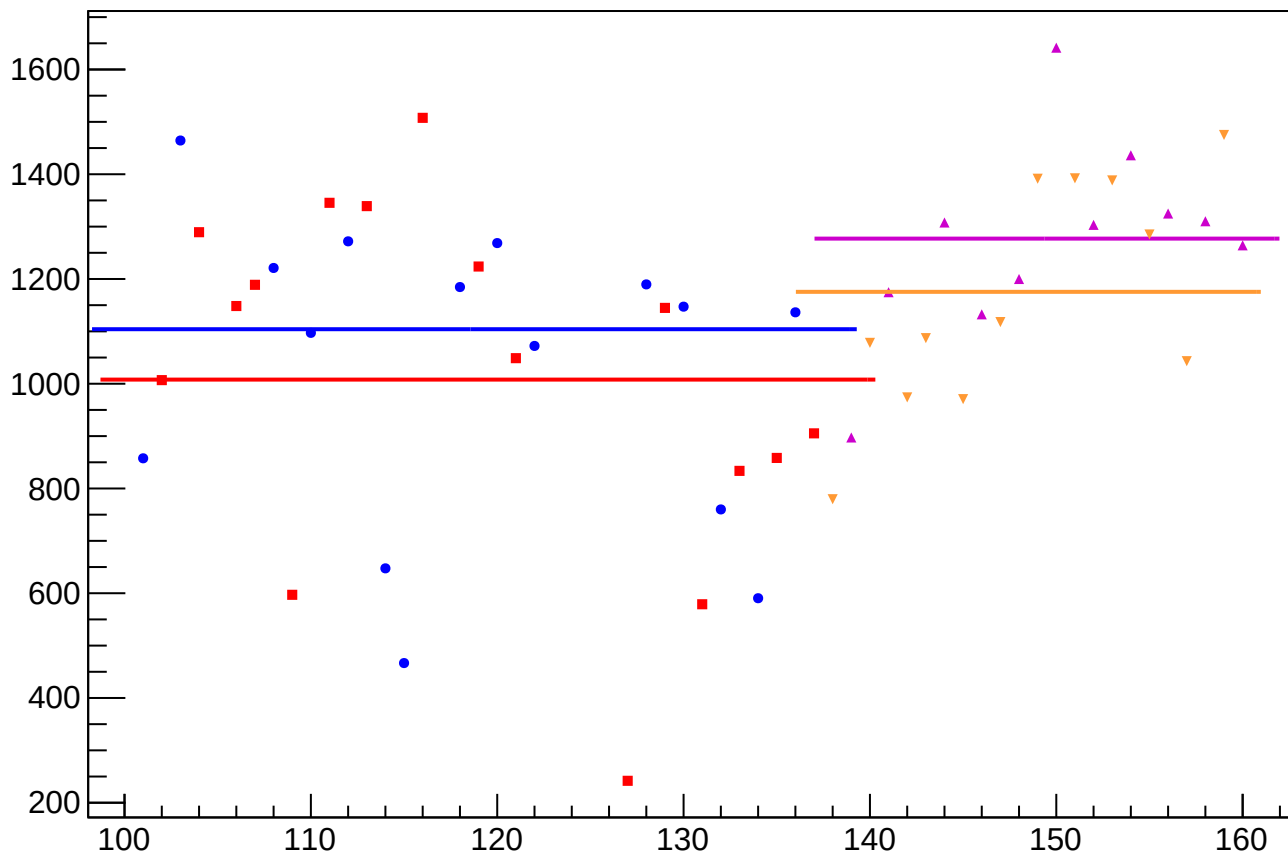
Right In: 3.793+/-0.000  $\chi^2/\text{NDF}$ : 3205389242726129619796290810413056.0/14

Left Out: 2.821+/-0.000  $\chi^2/\text{NDF}$ : 493082555580785627275797679046656.0/11

Right Out: 3.783+/-0.000  $\chi^2/\text{NDF}$ : 2878586622192676654452338755371008.0/15

Left In: 2.757+/-0.000  $\chi^2/\text{NDF}$ : 191720746547732306226054042746880.0/10

dit\_11X12X\_coil3\_Ndata\_mean vs Slug



Right In:  $1104.111 \pm 0.000$   $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out:  $1175.478 \pm 0.000$   $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out:  $1007.906 \pm 0.000$   $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In:  $1277.097 \pm 0.000$   $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

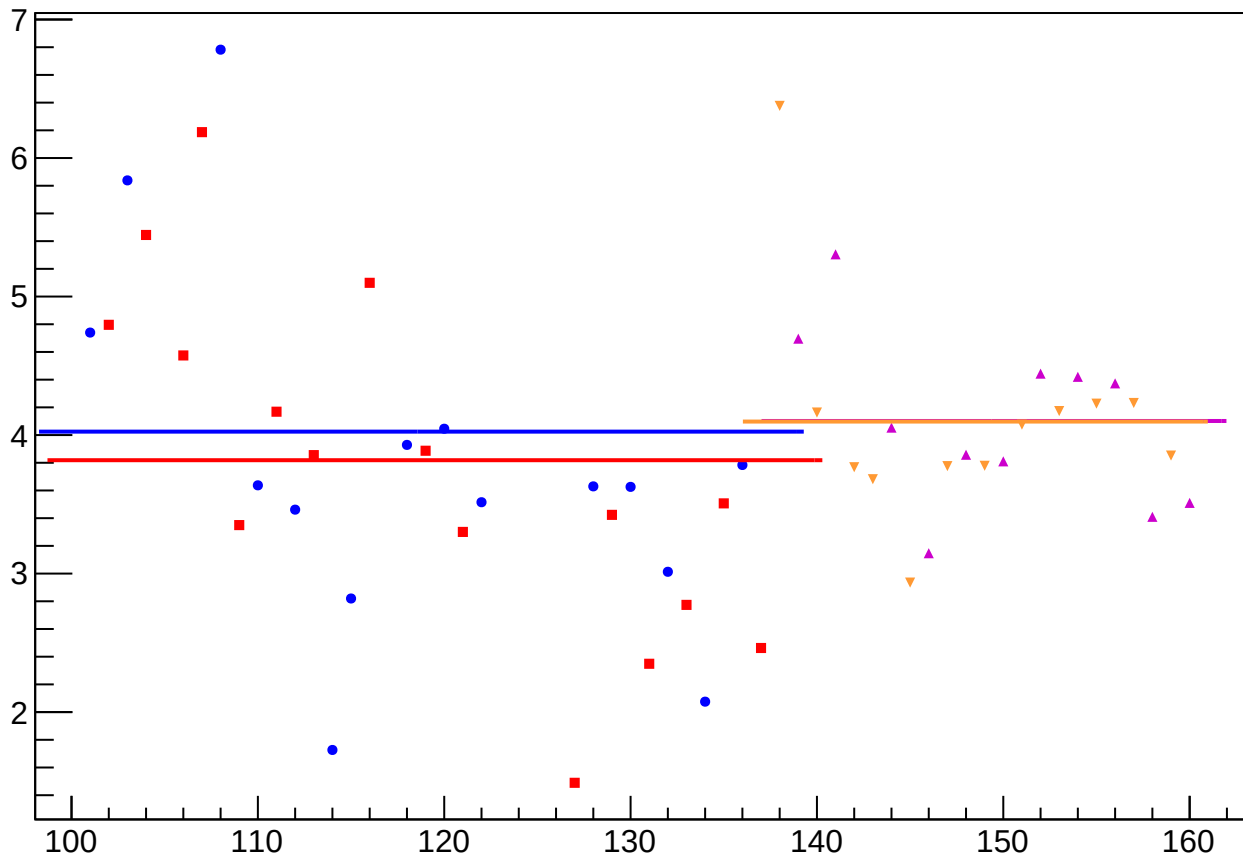
+ sign  $1145.901 \pm 0.000$   $\chi^2/\text{NDF}$ : 74640424030704

All:  $1155.145 \pm 0.000$   $\chi^2/\text{NDF}$ : 20163313284

- sign  $1164.243 \pm 0.000$   $\chi^2/\text{NDF}$ : 12672719249309



dit\_4aY\_coil3\_mean vs Slug



Right In: 4.025+/-0.000  $\chi^2/\text{NDF}$ : 769001650442321928129473832550400.0/14

Left Out: 4.098+/-0.000  $\chi^2/\text{NDF}$ : 556317927026663328650590815256576.0/11

Right Out: 3.819+/-0.000  $\chi^2/\text{NDF}$ : 888232240226434329114859171479552.0/15

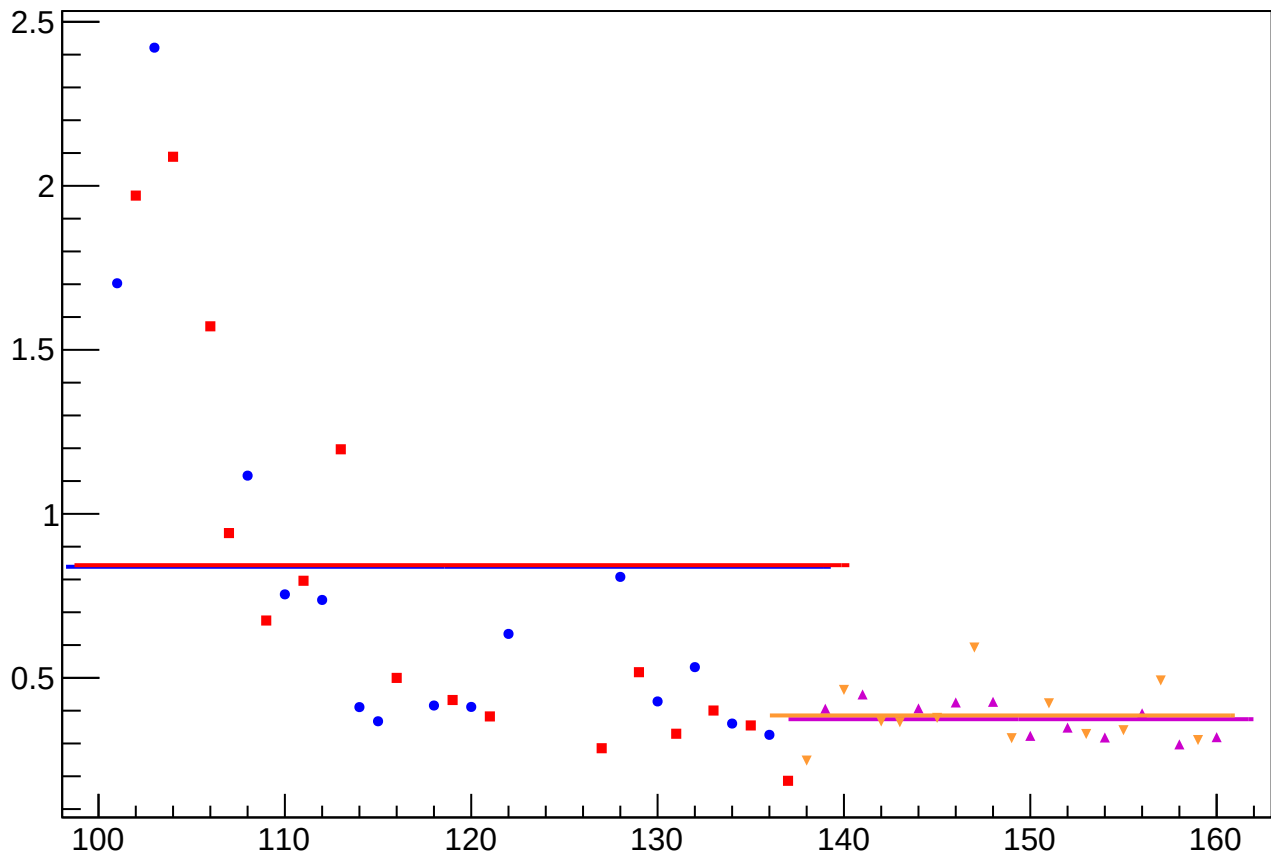
Left In: 4.102+/-0.000  $\chi^2/\text{NDF}$ : 329978343606173709019066465779712.0/10

+ sign 4.067+/-0.000  $\chi^2/\text{NDF}$ : 13273278579594570

All: 4.025+/-0.000  $\chi^2/\text{NDF}$ : 25822220881669

- sign 3.983+/-0.000  $\chi^2/\text{NDF}$ : 12492685976346881

dit\_4aY\_coil3\_err\_mean vs Slug



Right In:  $0.839 \pm 0.000$   $\chi^2/\text{NDF}$ : 258416025334615661521163083841536.0/14

Left Out:  $0.385 \pm 0.000$   $\chi^2/\text{NDF}$ : 7658632015844553503510259302400.0/11

Right Out:  $0.844 \pm 0.000$   $\chi^2/\text{NDF}$ : 252917509393432760240648918925312.0/15

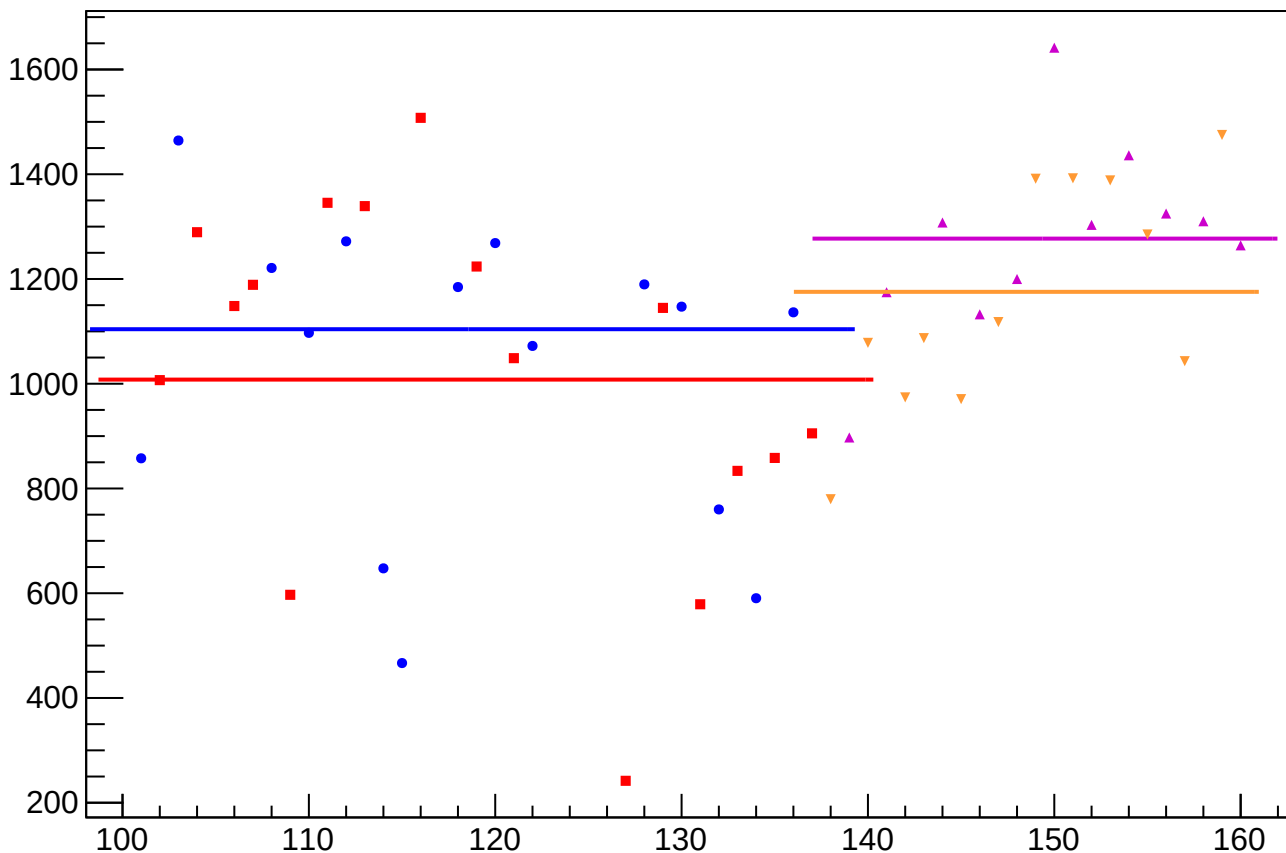
Left In:  $0.374 \pm 0.000$   $\chi^2/\text{NDF}$ : 2408191855928929204652403064832.0/10

+ sign  $0.573 \pm 0.000$   $\chi^2/\text{NDF}$ : 34415581101332189

All:  $0.572 \pm 0.000$   $\chi^2/\text{NDF}$ : 6848875460456

- sign  $0.571 \pm 0.000$   $\chi^2/\text{NDF}$ : 34072705828258961

dit\_4aY\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111 $\pm$ 0.000  $\chi^2$ /NDF: 32737841591587454251521906421545304064.0/14

+ sign 1145.901 $\pm$ 0.000  $\chi^2$ /NDF: 74640424030704

Left Out: 1175.478 $\pm$ 0.000  $\chi^2$ /NDF: 39966991584790626200337106489810354176.0/11

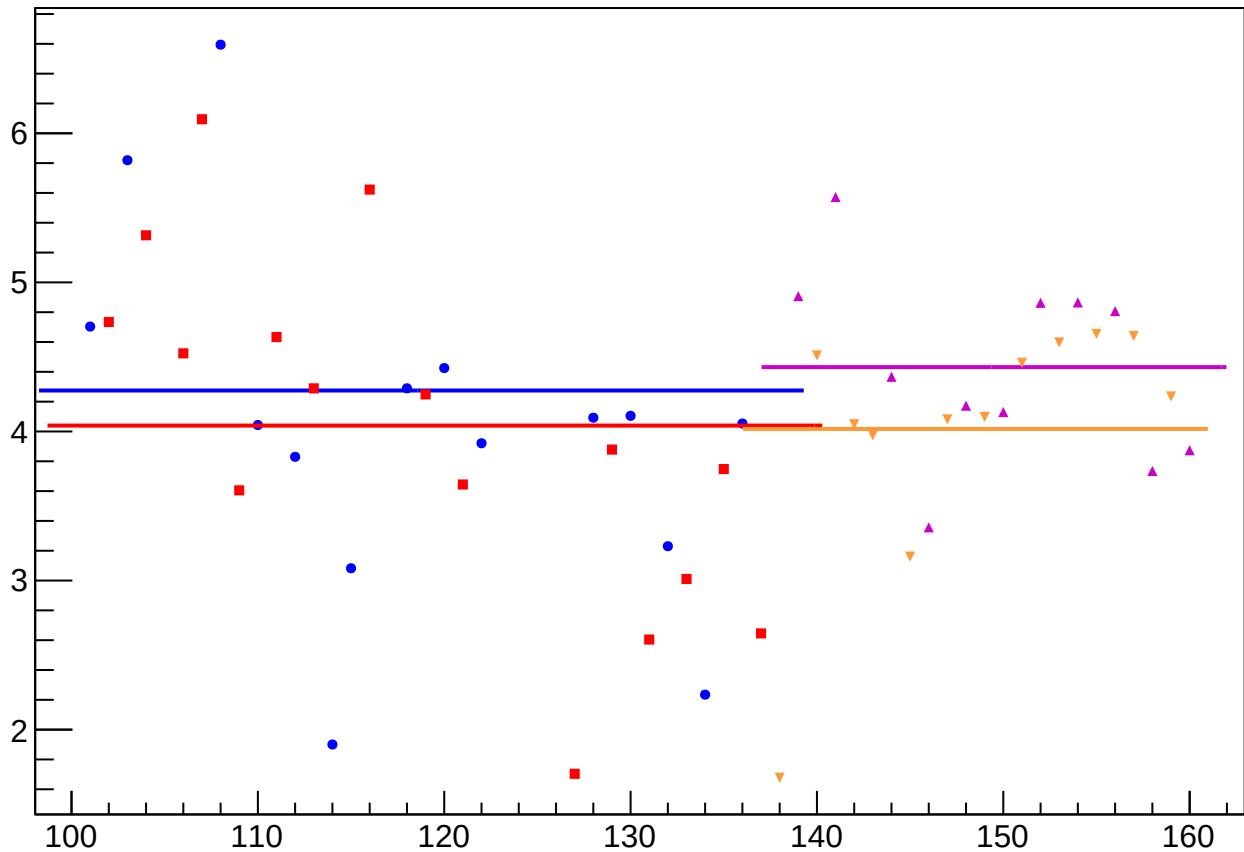
All: 1155.145 $\pm$ 0.000  $\chi^2$ /NDF: 2016331328

Right Out: 1007.906 $\pm$ 0.000  $\chi^2$ /NDF: 69077878009873965622695939627477368832.0/15

- sign 1164.243 $\pm$ 0.000  $\chi^2$ /NDF: 12672719249309

Left In: 1277.097 $\pm$ 0.000  $\chi^2$ /NDF: 29578729901602647998073818936097374208.0/10

# dit\_4eY\_coil3\_mean vs Slug



Right In: 4.275 $\pm$ 0.000  $\chi^2$ /NDF: 597188707898198851792415435522048.0/14

Left Out: 4.017 $\pm$ 0.000  $\chi^2$ /NDF: 618248057516763535647221148024832.0/11

Right Out: 4.039 $\pm$ 0.000  $\chi^2$ /NDF: 772368848194464324973108765130752.0/15

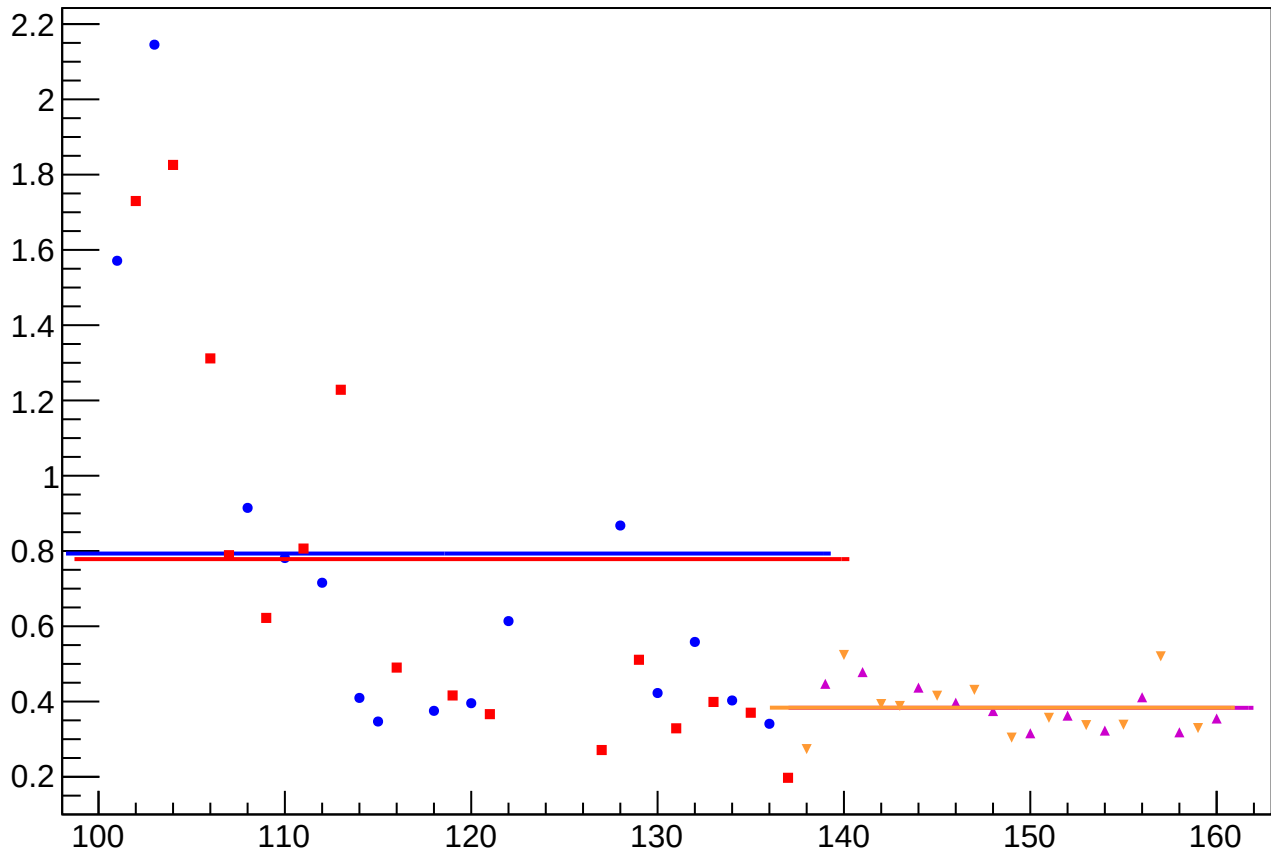
Left In: 4.432 $\pm$ 0.000  $\chi^2$ /NDF: 345602703191245770554210363899904.0/10

+ sign 4.124 $\pm$ 0.000  $\chi^2$ /NDF: 12406832910445444

All: 4.196 $\pm$ 0.000  $\chi^2$ /NDF: 24344292560010

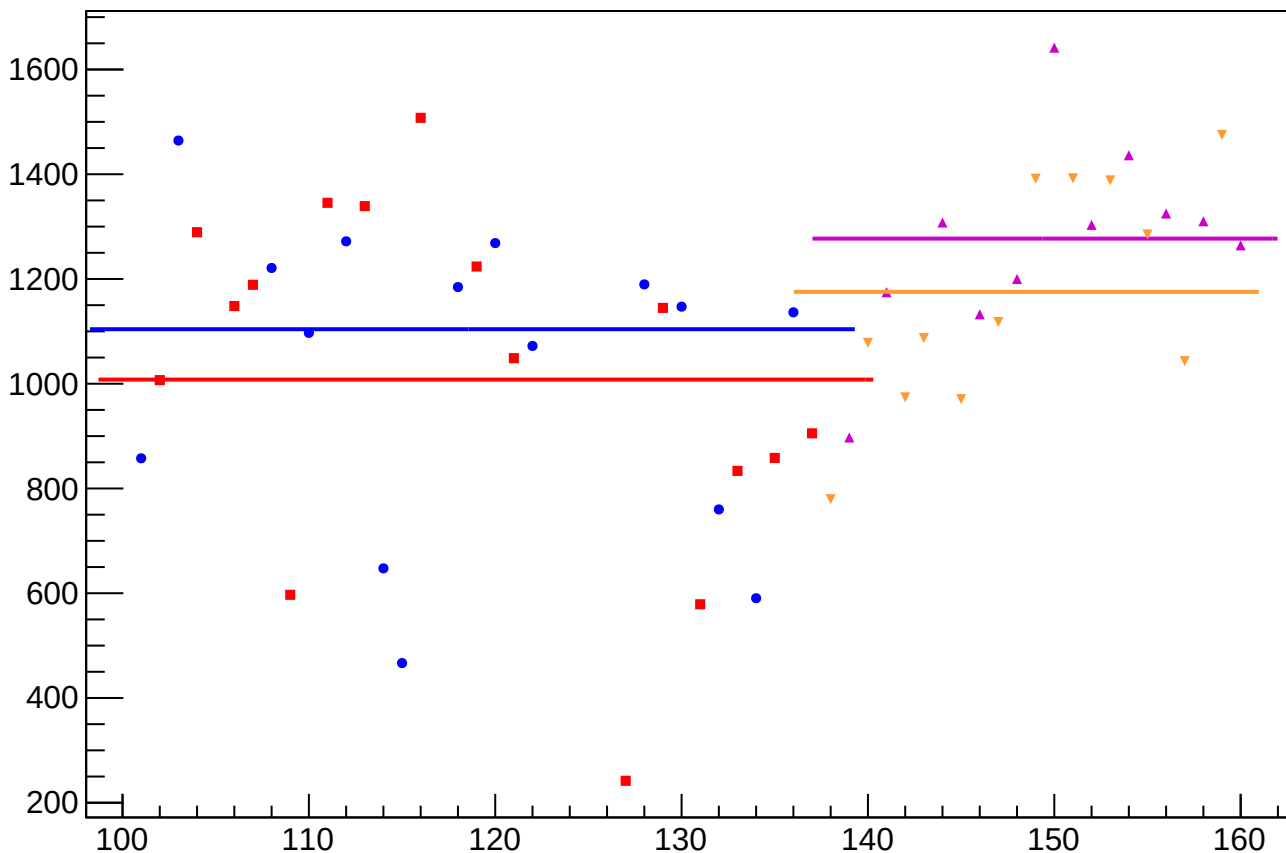
- sign 4.267 $\pm$ 0.000  $\chi^2$ /NDF: 11775319216859441

dit\_4eY\_coil3\_err\_mean vs Slug



|                              |                                                              |                          |                                         |
|------------------------------|--------------------------------------------------------------|--------------------------|-----------------------------------------|
| Right In: 0.793 $\pm$ 0.000  | $\chi^2/\text{NDF}$ : 195508777173589483440314700005376.0/14 | + sign 0.553 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 26468780298138332 |
| Left Out: 0.384 $\pm$ 0.000  | $\chi^2/\text{NDF}$ : 5453192114665634094551262035968.0/11   | All: 0.551 $\pm$ 0.000   | $\chi^2/\text{NDF}$ : 5136149138399     |
| Right Out: 0.778 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 185814635772183306063903690063872.0/15 | - sign 0.549 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 24891120675551359 |
| Left In: 0.383 $\pm$ 0.000   | $\chi^2/\text{NDF}$ : 2618375268437967875049691021312.0/10   |                          |                                         |

dit\_4eY\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

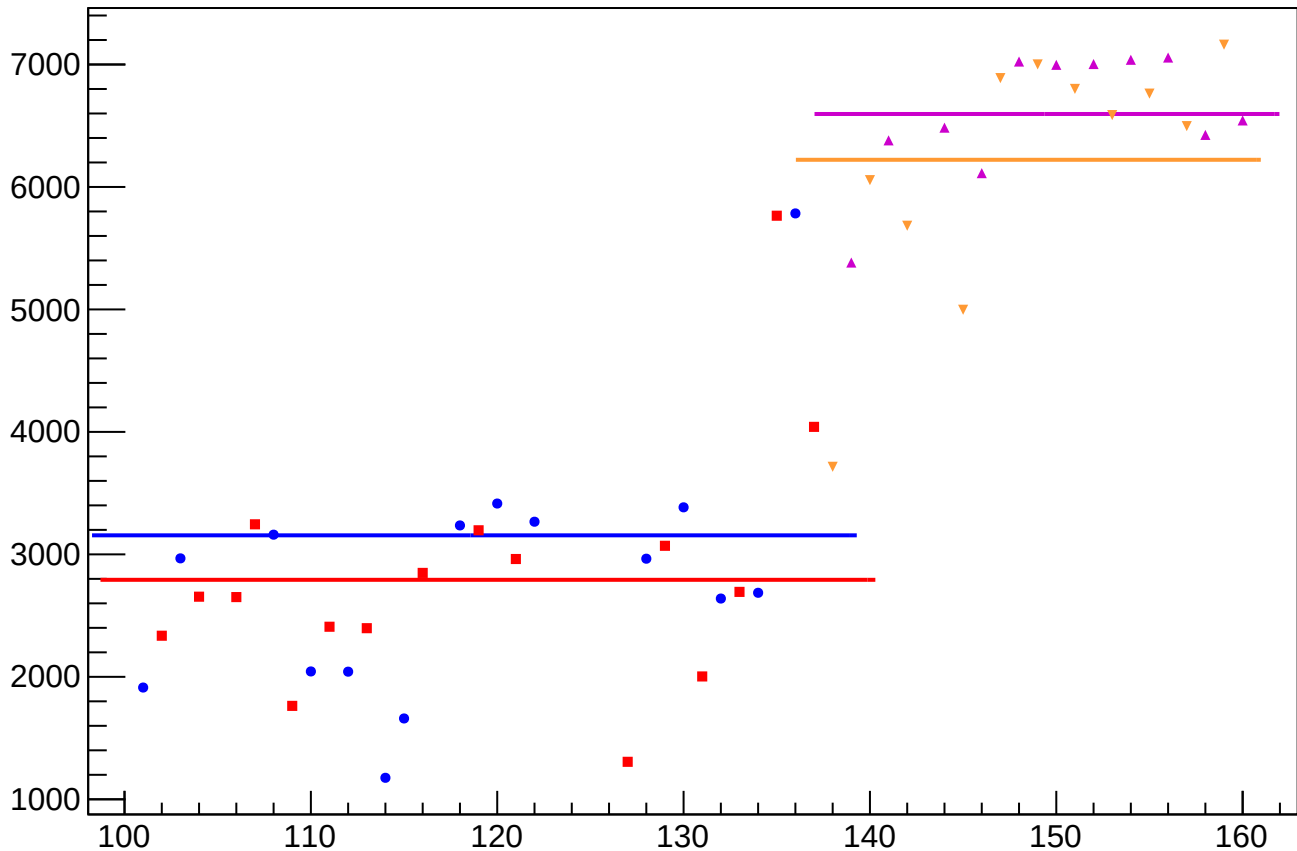
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284

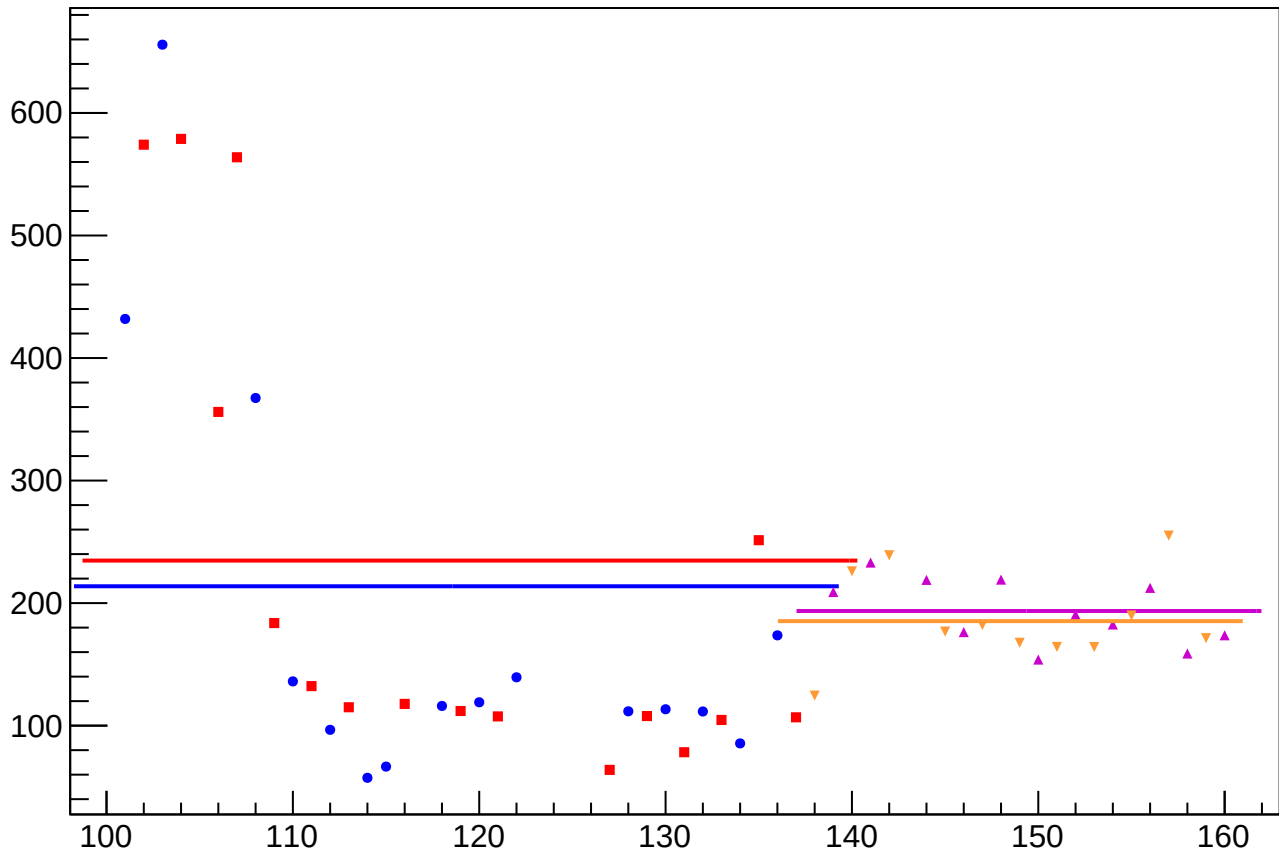
- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

dit\_usl\_coil3\_mean vs Slug



Right In: 3155.434+/-0.000  $\chi^2/\text{NDF}$ : 903550534773622902110918214033612996608.0/14  
 Left Out: 6221.938+/-0.000  $\chi^2/\text{NDF}$ : 849977473152285312907595623686819807232.0/10  
 Right Out: 2792.245+/-0.000  $\chi^2/\text{NDF}$ : 674635749324173001973264427530986717184.0/15  
 Left In: 6595.861+/-0.000  $\chi^2/\text{NDF}$ : 225164805715400368671043826745864093696.0/10

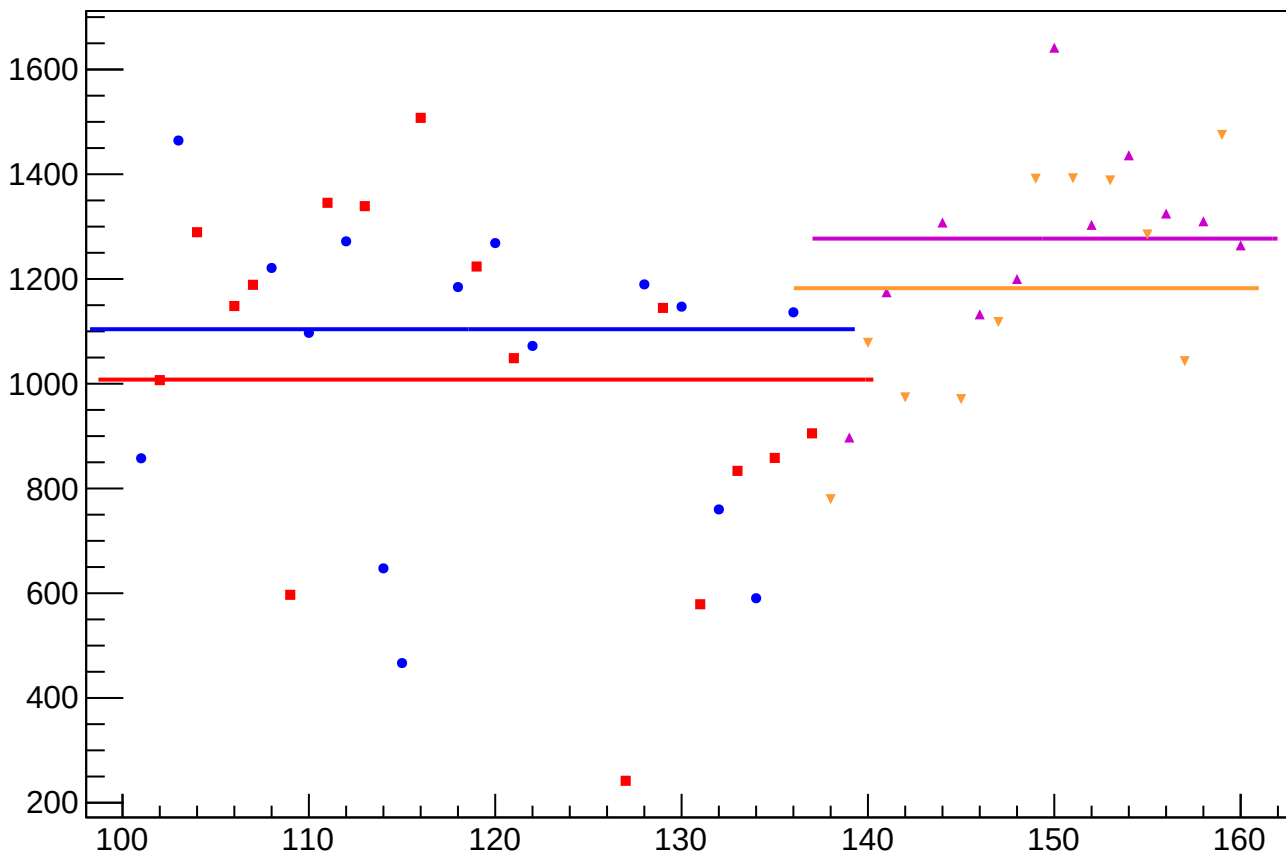
dit\_usl\_coil3\_err\_mean vs Slug



Right In: 213.739 $\pm$ 0.000  $\chi^2$ /NDF: 19718138109054002114361149860507287552.0/14  
 Left Out: 185.291 $\pm$ 0.000  $\chi^2$ /NDF: 1063728674006350590661838746148667392.0/10  
 Right Out: 234.712 $\pm$ 0.000  $\chi^2$ /NDF: 24013134107167214895189050481067425792.0/15  
 Left In: 193.543 $\pm$ 0.000  $\chi^2$ /NDF: 598931150644293332680217057881489408.0/10



dit\_usl\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1182.447+/-0.000  $\chi^2/\text{NDF}$ : 39401916671919600348661592701888626688.0/10

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

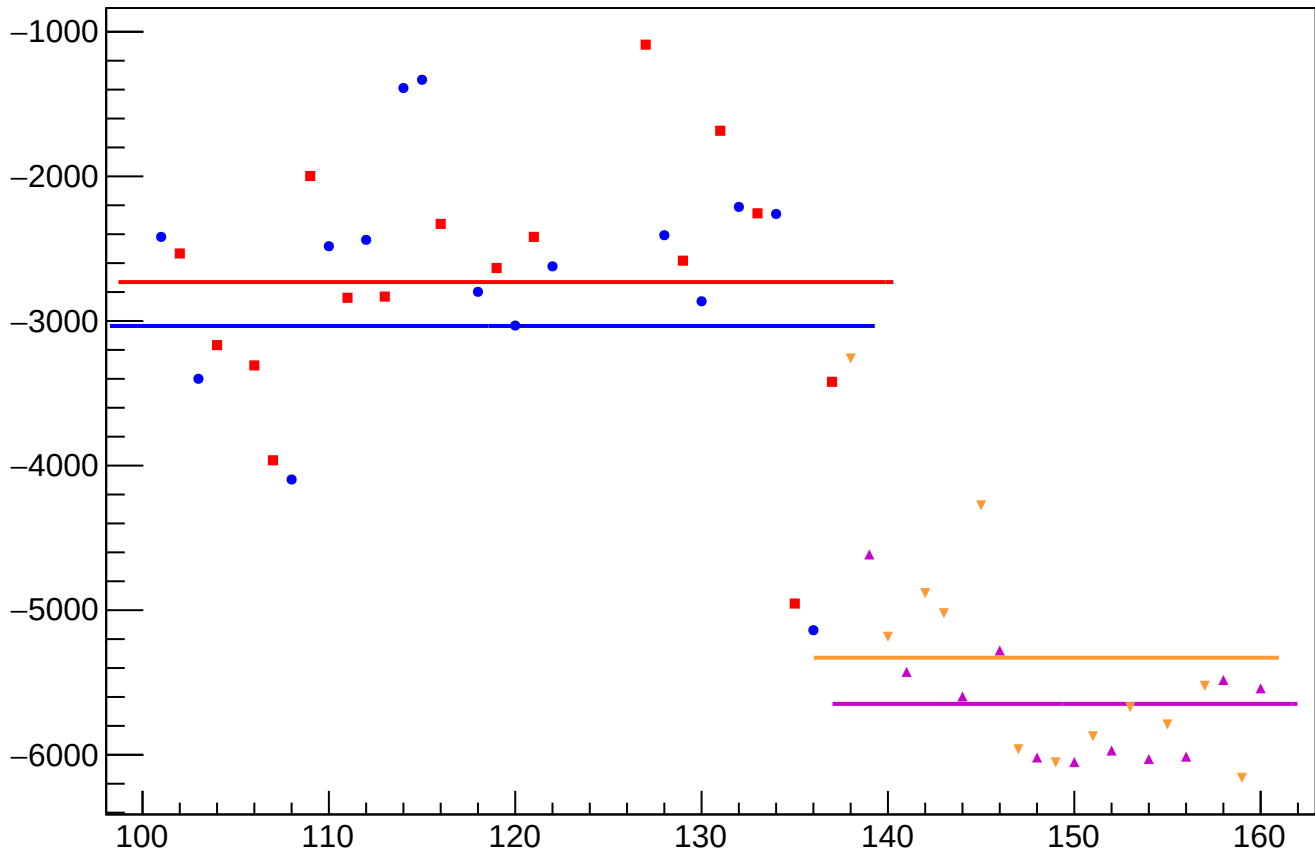
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1148.531+/-0.000  $\chi^2/\text{NDF}$ : 74398081441071

All: 1156.621+/-0.000  $\chi^2/\text{NDF}$ : 20131581499

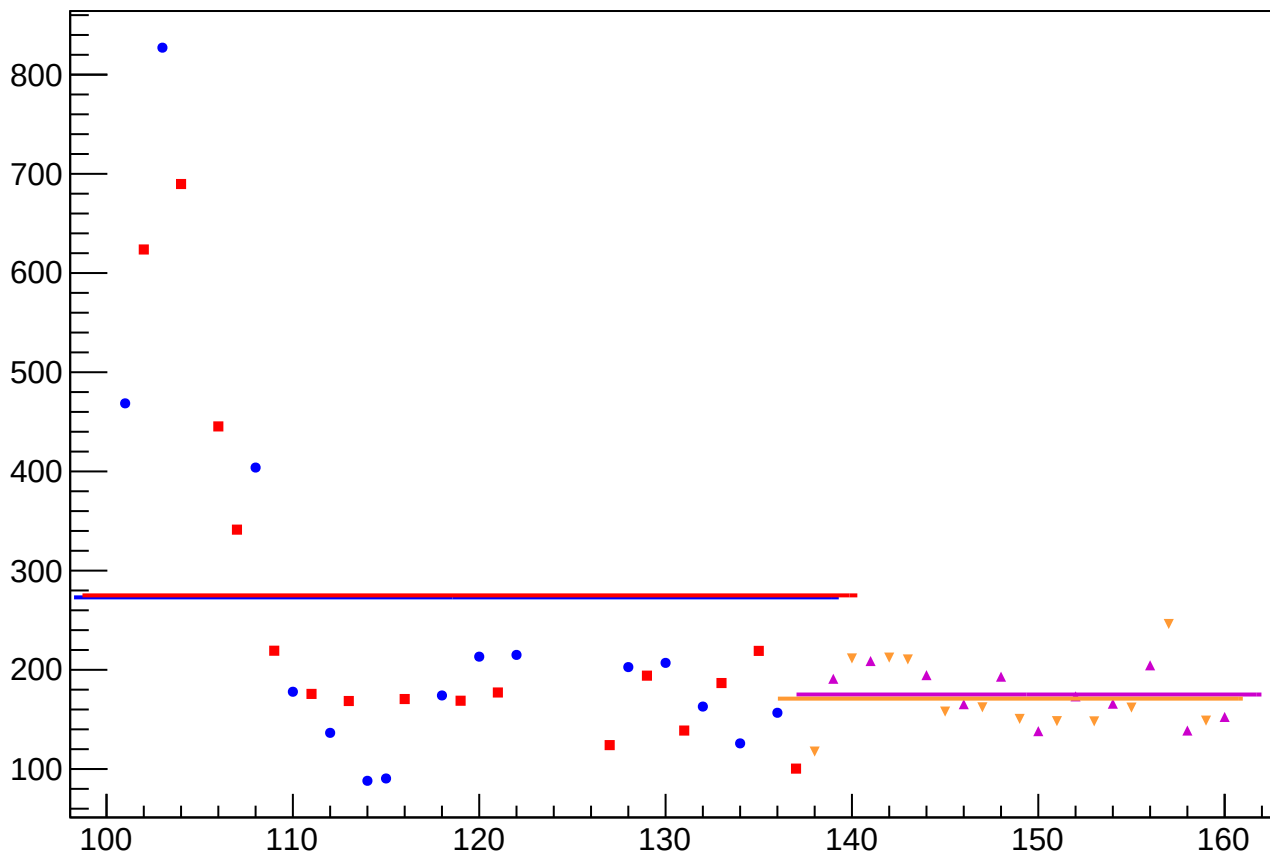
- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

# dit\_usr\_coil3\_mean vs Slug



Right In: -3034.527+/-0.000  $\chi^2/\text{NDF}$ : 630694553353463868547335175090919702528.0/14  
 Left Out: -5328.796+/-0.000  $\chi^2/\text{NDF}$ : 624360364489310892896763337628232712192.0/11  
 Right Out: -2731.035+/-0.000  $\chi^2/\text{NDF}$ : 528290847703567991555694629239211950080.0/15  
 Left In: -5647.632+/-0.000  $\chi^2/\text{NDF}$ : 164214312908035645215126356935491715072.0/10

dit\_usr\_coil3\_err\_mean vs Slug



Right In: 273.039+/-0.000  $\chi^2/\text{NDF}$ : 26485935053341175092913795212184125440.0/14

Left Out: 170.956+/-0.000  $\chi^2/\text{NDF}$ : 1172503860973970615331214508834160640.0/11

Right Out: 275.044+/-0.000  $\chi^2/\text{NDF}$ : 22264760088752901792561892991657050112.0/15

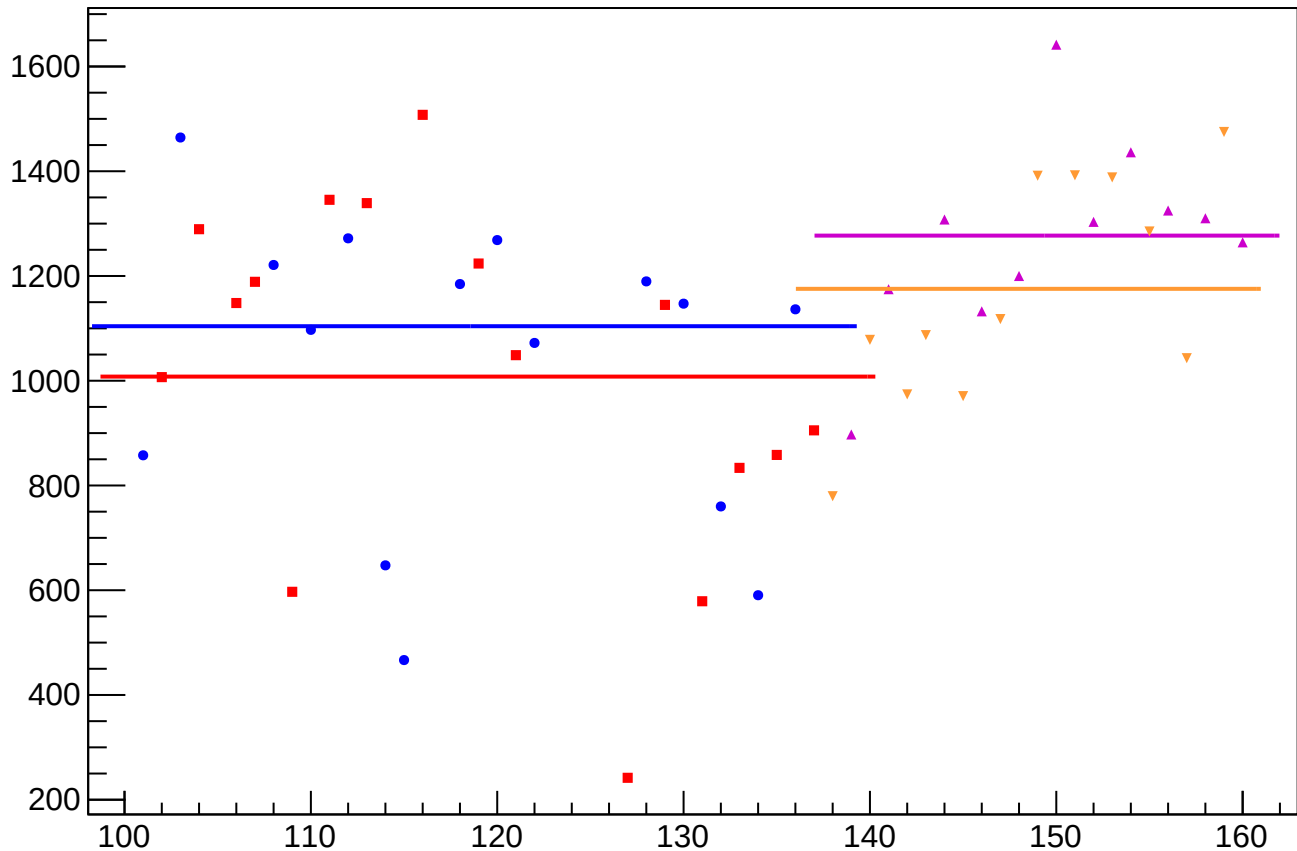
Left In: 175.100+/-0.000  $\chi^2/\text{NDF}$ : 532319905760316522814470909096624128.0/10

+ sign 213.262+/-0.000  $\chi^2/\text{NDF}$ : 316186995366268

All: 215.146+/-0.000  $\chi^2/\text{NDF}$ : 58296120726

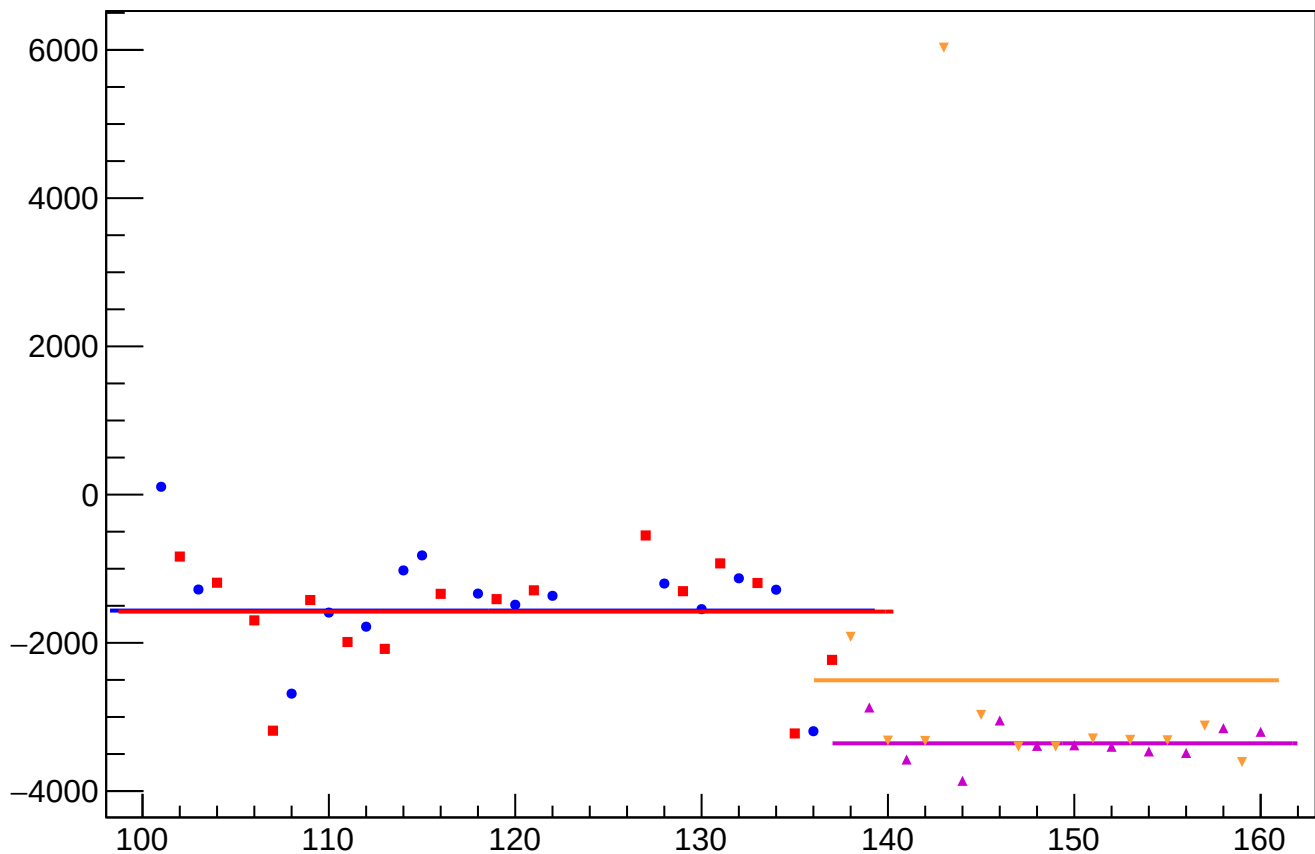
- sign 217.000+/-0.000  $\chi^2/\text{NDF}$ : 266663969074785

dit\_usr\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14  
 Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11  
 Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15  
 Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

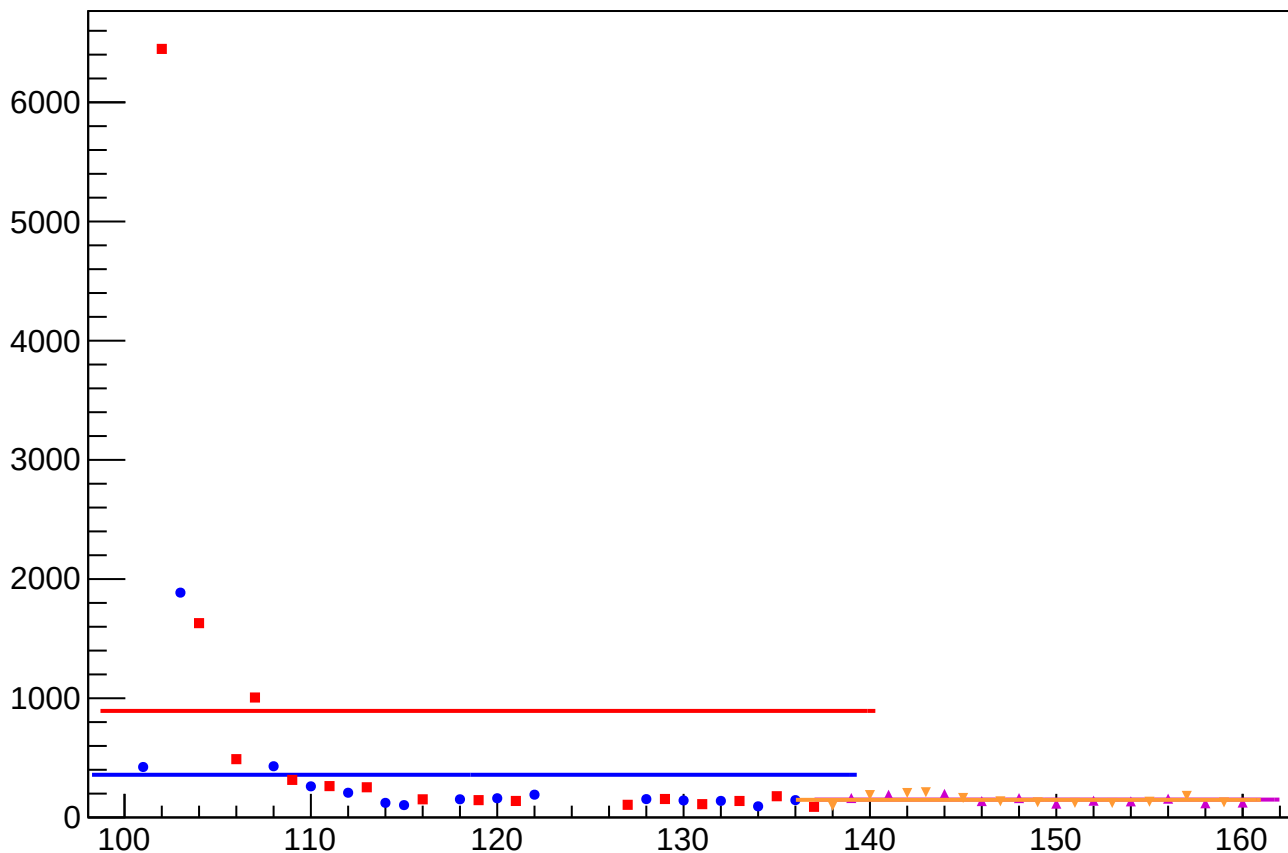
dit\_atl1\_coil3\_mean vs Slug



|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Right In: -1564.595+/-0.000  | $\chi^2/\text{NDF}$ : 483874800978571042578975757029039144960.0/14  |
| Left Out: -2504.960+/-0.000  | $\chi^2/\text{NDF}$ : 5422497697613230212283297952400402284544.0/11 |
| Right Out: -1578.178+/-0.000 | $\chi^2/\text{NDF}$ : 368450572556217564071963203581098590208.0/15  |
| Left In: -3355.712+/-0.000   | $\chi^2/\text{NDF}$ : 61603128430044333980990125877093203968.0/10   |

+ sign -2115.243+/-0.000  $\chi^2/\text{NDF}$ : 6242431119735  
 All: -2364.838+/-0.000  $\chi^2/\text{NDF}$ : 8090017506  
 - sign -2610.511+/-0.000  $\chi^2/\text{NDF}$ : 16540032445159

dit\_atl1\_coil3\_err\_mean vs Slug



Right In: 358.080+/-0.000  $\chi^2/\text{NDF}$ : 157922789145697858165644452090202816512.0/14

Left Out: 147.874+/-0.000  $\chi^2/\text{NDF}$ : 1073020519575473807448825753294077952.0/11

Right Out: 893.897+/-0.000  $\chi^2/\text{NDF}$ : 2075920155774201043572695656797803905024.0/15

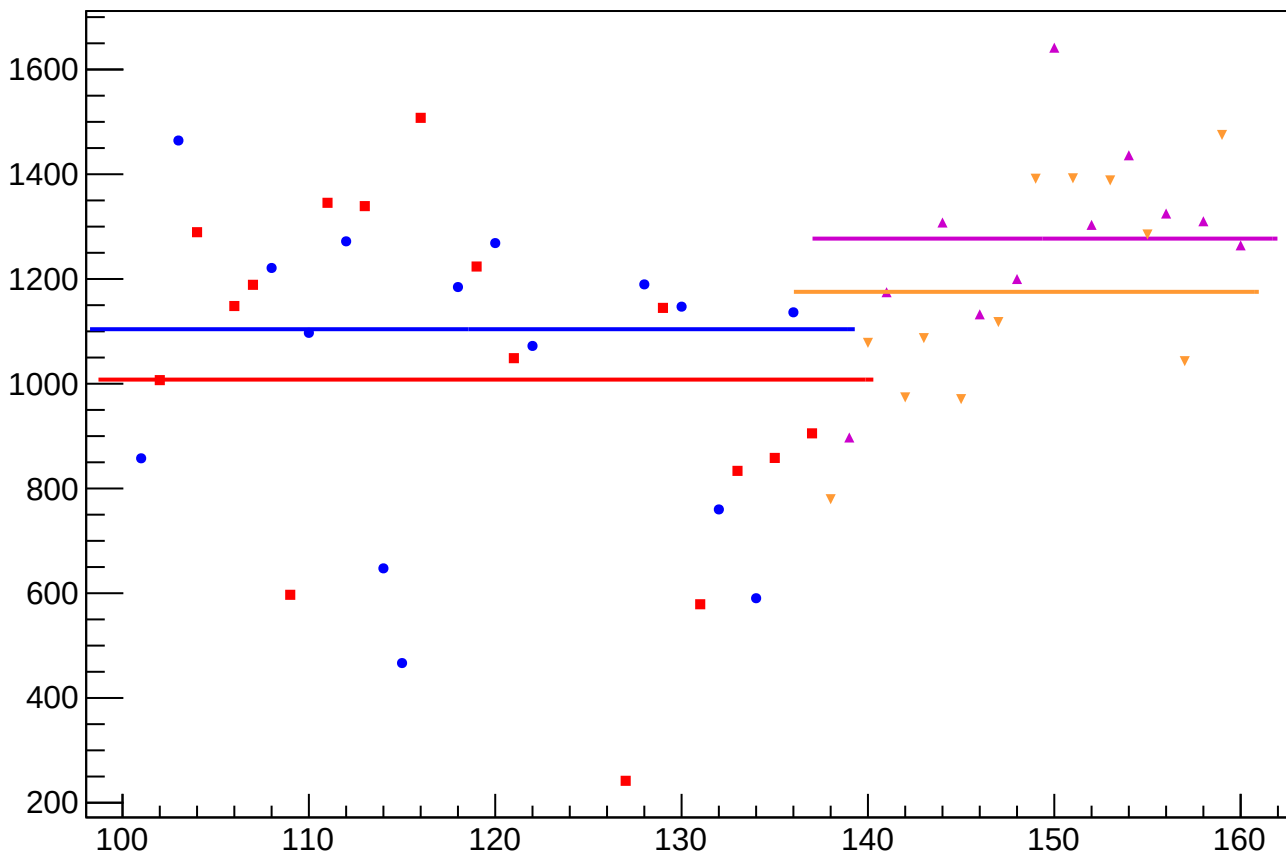
Left In: 149.829+/-0.000  $\chi^2/\text{NDF}$ : 645756718172892804384604635004928000.0/10

+ sign 234.990+/-0.000  $\chi^2/\text{NDF}$ : 175788222608458

All: 349.276+/-0.000  $\chi^2/\text{NDF}$ : 25074043083

- sign 461.767+/-0.000  $\chi^2/\text{NDF}$ : 229102929368244

dit\_atl1\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111 $\pm$ 0.000  $\chi^2$ /NDF: 32737841591587454251521906421545304064.0/14

Left Out: 1175.478 $\pm$ 0.000  $\chi^2$ /NDF: 39966991584790626200337106489810354176.0/11

Right Out: 1007.906 $\pm$ 0.000  $\chi^2$ /NDF: 69077878009873965622695939627477368832.0/15

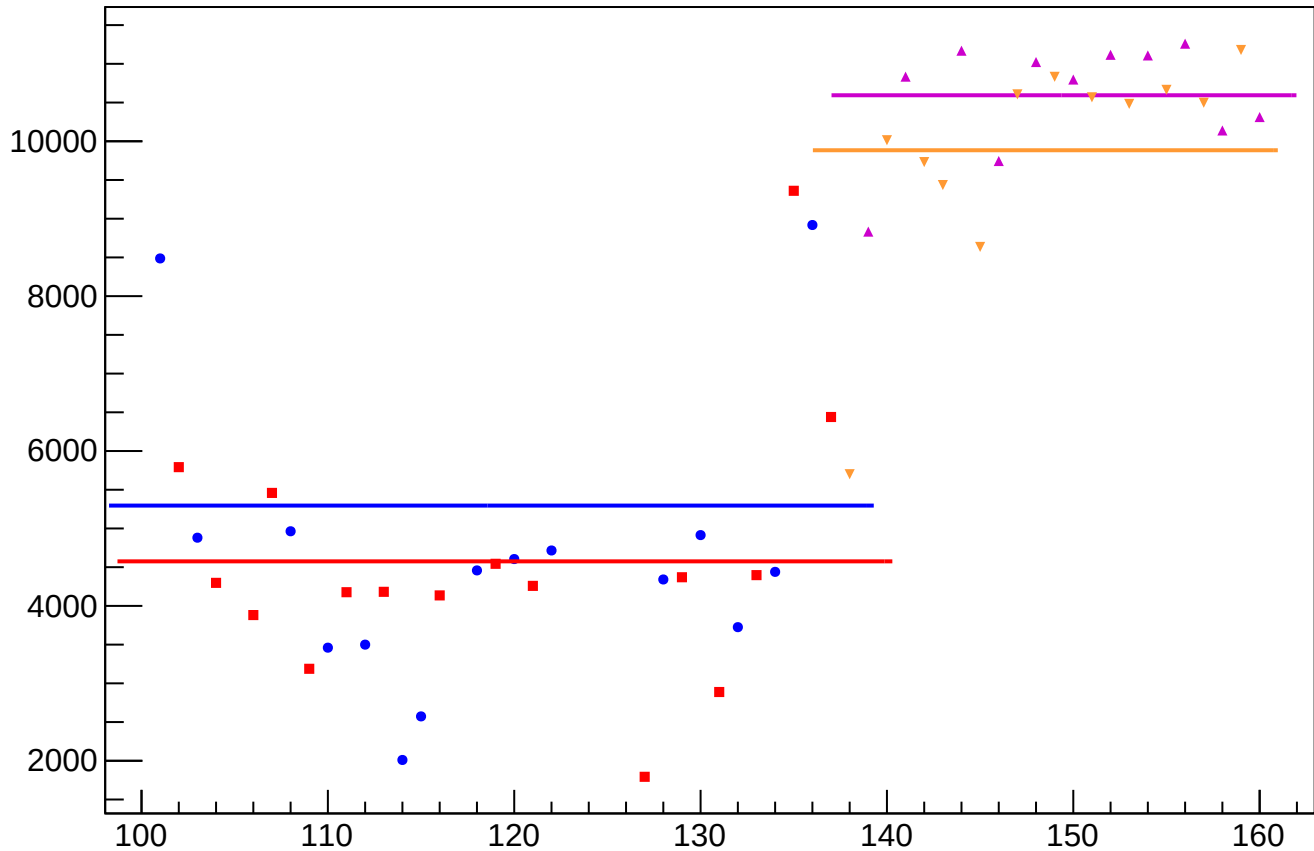
Left In: 1277.097 $\pm$ 0.000  $\chi^2$ /NDF: 29578729901602647998073818936097374208.0/10

+ sign 1145.901 $\pm$ 0.000  $\chi^2$ /NDF: 74640424030704

All: 1155.145 $\pm$ 0.000  $\chi^2$ /NDF: 20163313284

- sign 1164.243 $\pm$ 0.000  $\chi^2$ /NDF: 12672719249309

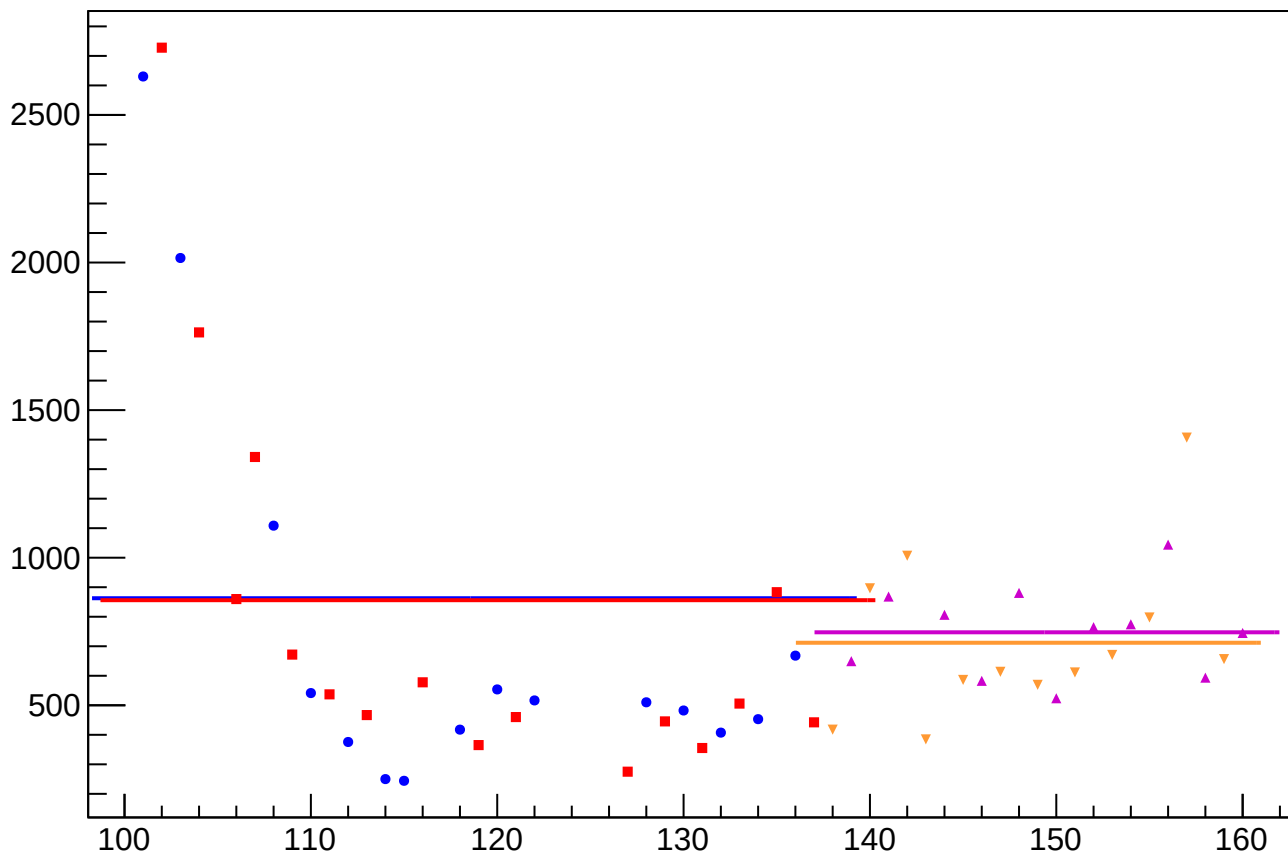
# dit\_atl2\_coil3\_mean vs Slug



Right In: 5295.485 $\pm$ 0.000  $\chi^2$ /NDF: 2505645232968263275444048016093183213568.0/14  
 Left Out: 9883.978 $\pm$ 0.000  $\chi^2$ /NDF: 1902428891005248408553336449765040193536.0/11  
 Right Out: 4575.270 $\pm$ 0.000  $\chi^2$ /NDF: 1863322094770403739096100800072716910592.0/15  
 Left In: 10594.095 $\pm$ 0.000  $\chi^2$ /NDF: 469955671378487676963254464485150162944.0/10



dit\_atl2\_coil3\_err\_mean vs Slug



Right In:  $862.683 \pm 0.000$   $\chi^2/\text{NDF}$ : 337684000863819315026459106525759668224.0/14

Left Out:  $711.884 \pm 0.000$   $\chi^2/\text{NDF}$ : 64392508404620992008761939417708363776.0/11

Right Out:  $856.059 \pm 0.000$   $\chi^2/\text{NDF}$ : 327195216546444767148716224688288694272.0/15

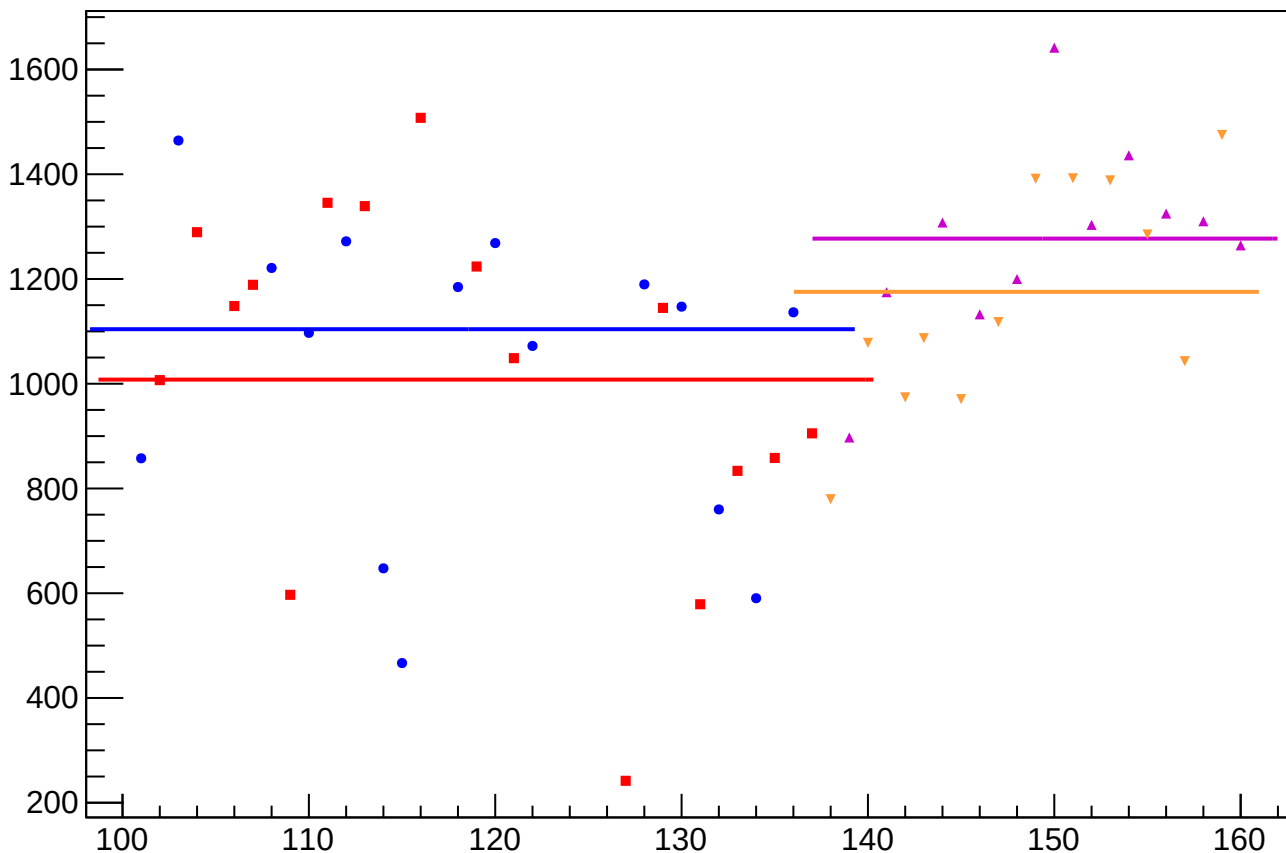
Left In:  $747.275 \pm 0.000$   $\chi^2/\text{NDF}$ : 19678847395727730098310642242030665728.0/10

+ sign  $774.380 \pm 0.000$   $\chi^2/\text{NDF}$ : 410718569179273

All:  $783.704 \pm 0.000$   $\chi^2/\text{NDF}$ : 762446879518

- sign  $792.881 \pm 0.000$   $\chi^2/\text{NDF}$ : 351458177247538

dit\_atl2\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

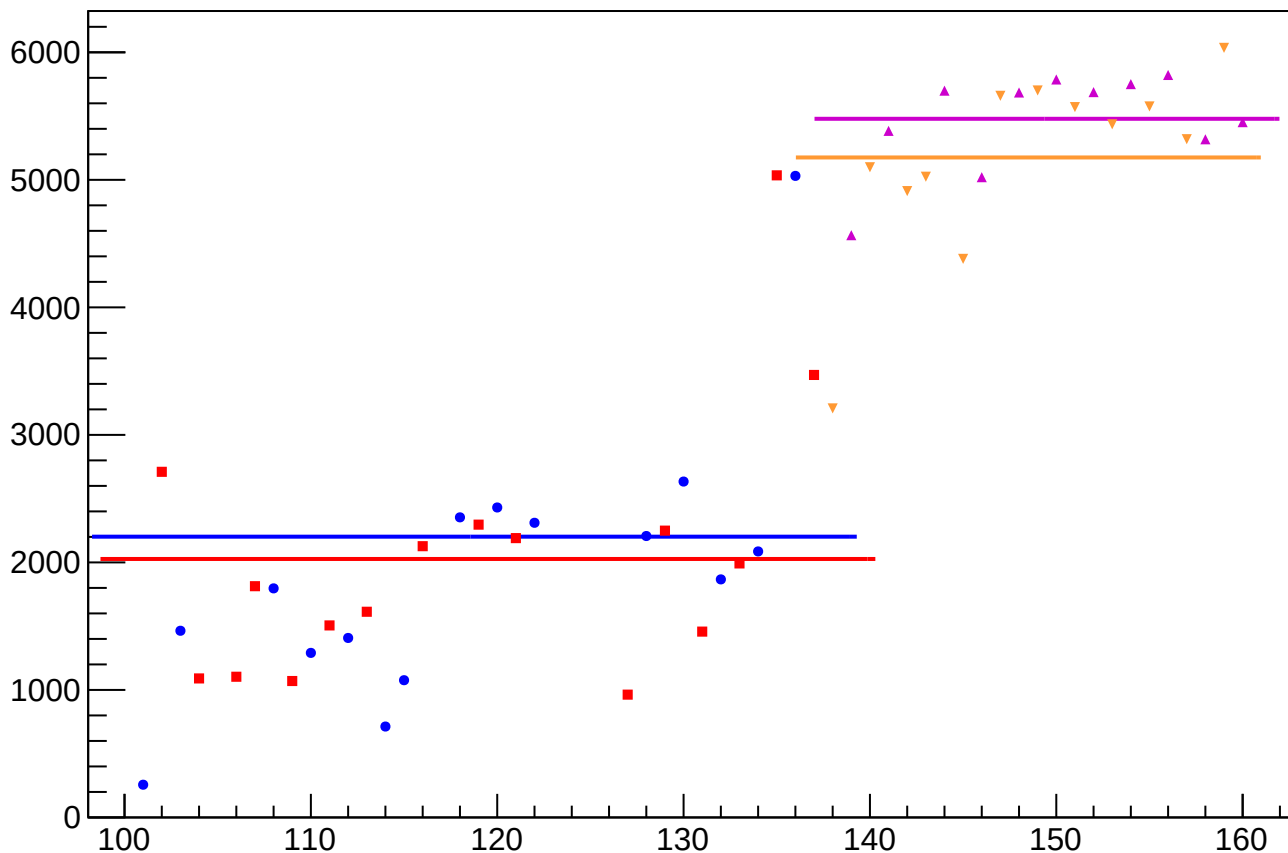
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284

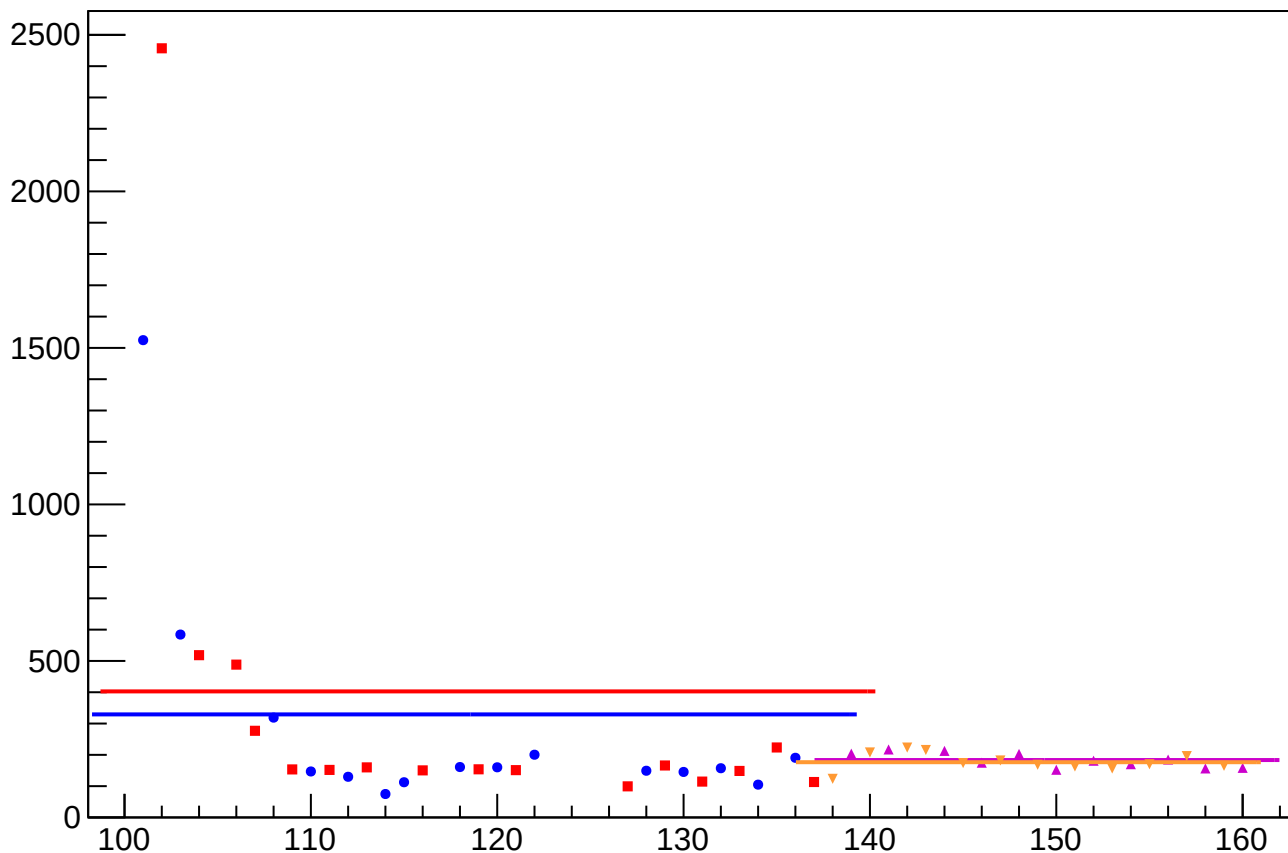
- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

dit\_atr1\_coil3\_mean vs Slug



Right In:  $2201.844 \pm 0.000$   $\chi^2/\text{NDF}$ : 1086544775216266395419904724422998622208.0/14  
 Left Out:  $5175.489 \pm 0.000$   $\chi^2/\text{NDF}$ : 491163082398861244777680604445322248192.0/11  
 Right Out:  $2026.969 \pm 0.000$   $\chi^2/\text{NDF}$ : 708626456603410705124518299956645199872.0/15  
 Left In:  $5478.713 \pm 0.000$   $\chi^2/\text{NDF}$ : 124186054771424011873849346802583601152.0/10

dit\_atr1\_coil3\_err\_mean vs Slug



Right In: 329.229+/-0.000  $\chi^2/\text{NDF}$ : 103285029091922742033837903437132464128.0/14

Left Out: 176.521+/-0.000  $\chi^2/\text{NDF}$ : 603954020649542809657845120778633216.0/11

Right Out: 402.690+/-0.000  $\chi^2/\text{NDF}$ : 277636056793293374242116053515003494400.0/15

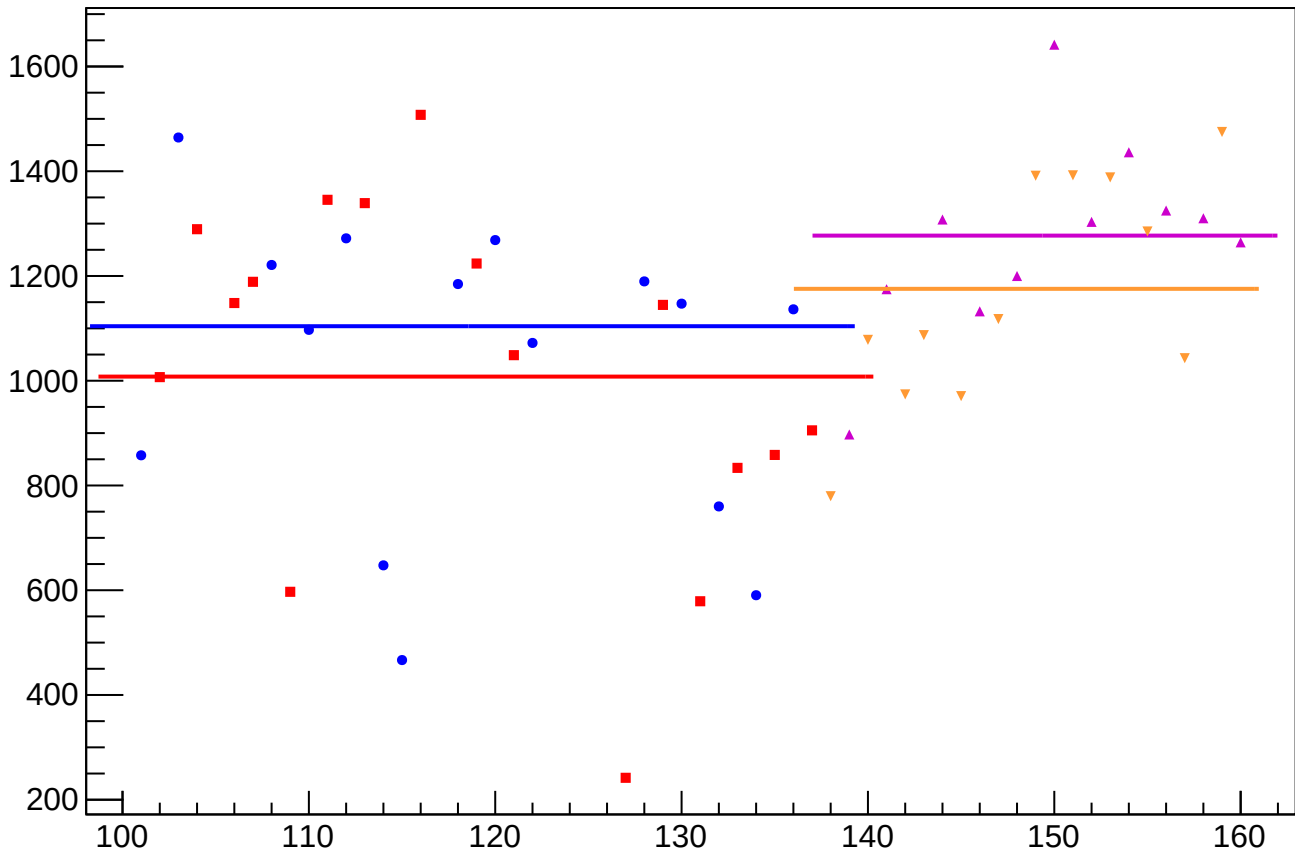
Left In: 183.411+/-0.000  $\chi^2/\text{NDF}$ : 452789814018275751637875535657304064.0/10

+ sign 239.808+/-0.000  $\chi^2/\text{NDF}$ : 112751281695160

All: 257.715+/-0.000  $\chi^2/\text{NDF}$ : 410462625583

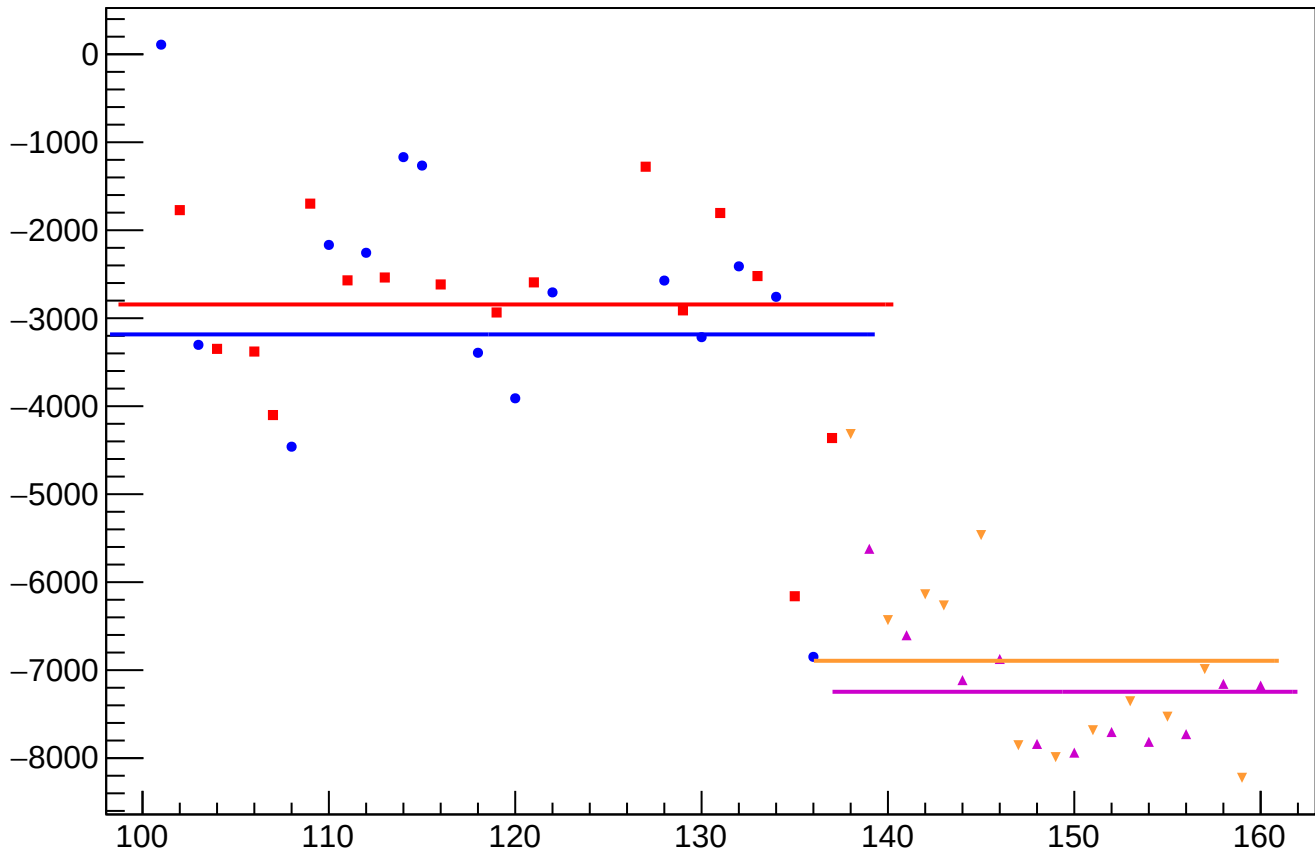
- sign 275.340+/-0.000  $\chi^2/\text{NDF}$ : 296714971855196

dit\_atr1\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14  
 Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11  
 Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15  
 Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

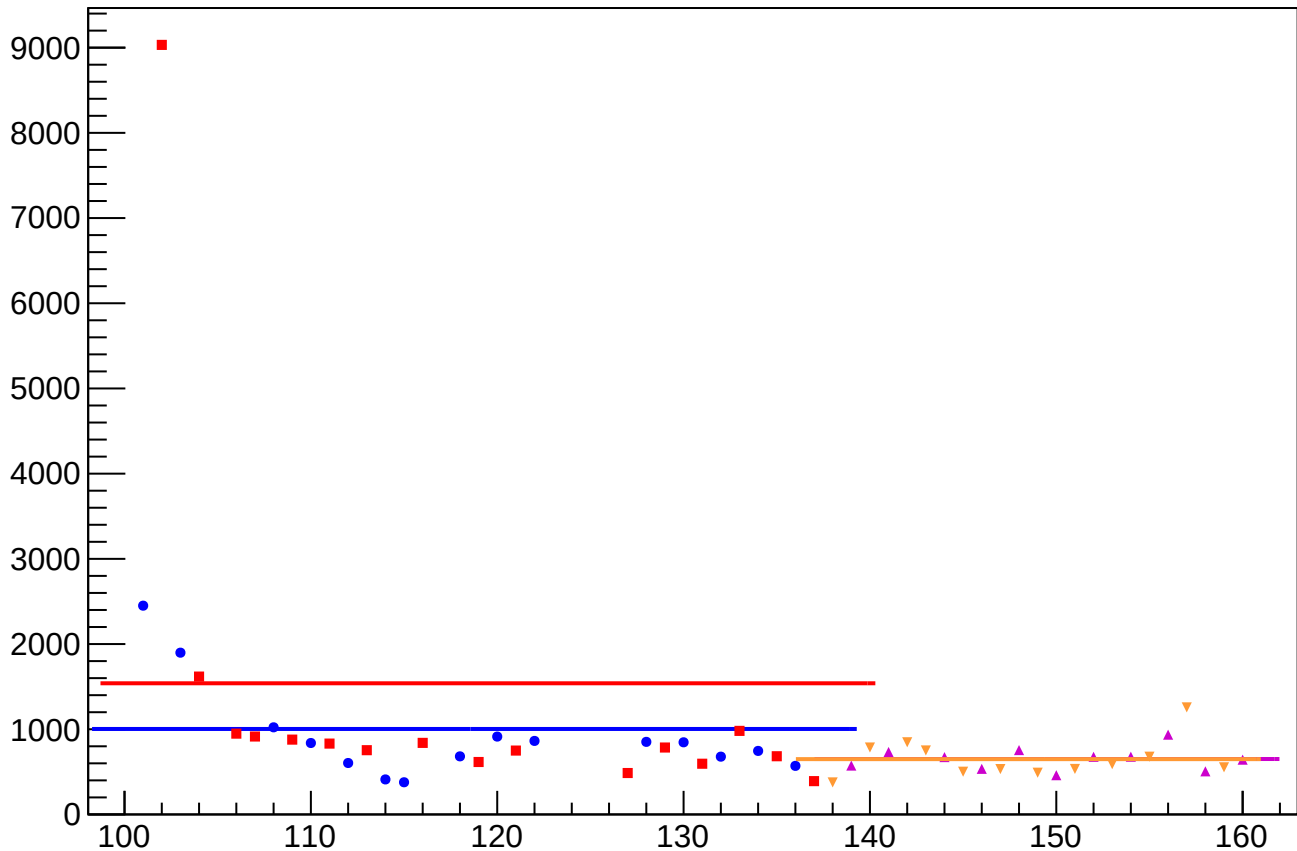
dit\_atr2\_coil3\_mean vs Slug



|                              |                                                                     |
|------------------------------|---------------------------------------------------------------------|
| Right In: -3183.928+/-0.000  | $\chi^2/\text{NDF}$ : 2134923281384422537296044119642733543424.0/14 |
| Left Out: -6893.642+/-0.000  | $\chi^2/\text{NDF}$ : 1166796992551395591900489719368617295872.0/11 |
| Right Out: -2843.597+/-0.000 | $\chi^2/\text{NDF}$ : 947077611563723244705531091944015396864.0/15  |
| Left In: -7245.920+/-0.000   | $\chi^2/\text{NDF}$ : 401760462783969098772010925007315140608.0/10  |

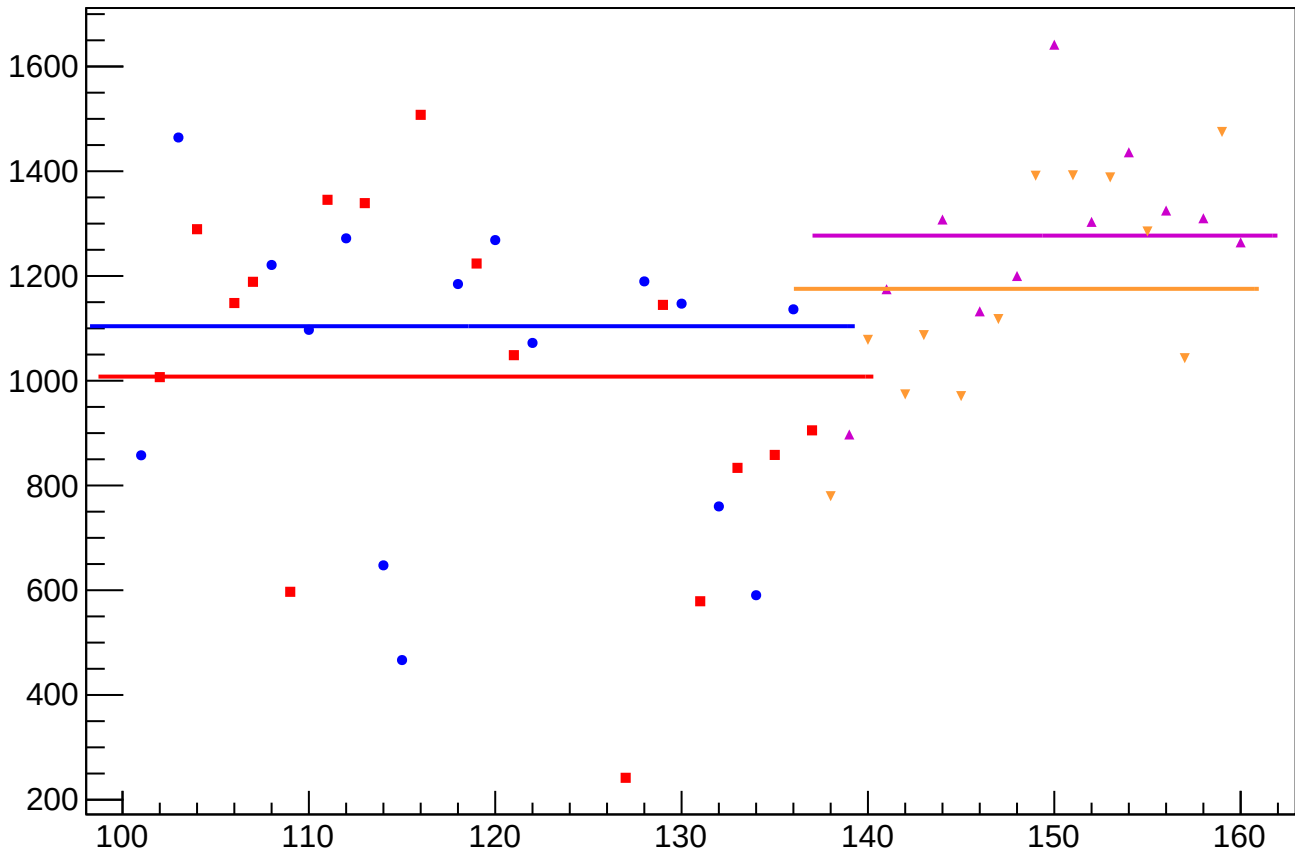
+ sign -5356.219+/-0.000  $\chi^2/\text{NDF}$ : 8531737355376  
 All: -5378.444+/-0.000  $\chi^2/\text{NDF}$ : 1738954260  
 - sign -5400.320+/-0.000  $\chi^2/\text{NDF}$ : 8856270344208

dit\_atr2\_coil3\_err\_mean vs Slug



Right In: 1003.407+/-0.000  $\chi^2/\text{NDF}$ : 219815257294811198811064619822196195328.0/14  
 Left Out: 649.450+/-0.000  $\chi^2/\text{NDF}$ : 46064570136396855168938023455129862144.0/11  
 Right Out: 1539.568+/-0.000  $\chi^2/\text{NDF}$ : 3614774785297482293145354574125437288448.0/15  
 Left In: 650.769+/-0.000  $\chi^2/\text{NDF}$ : 14776465774858799846922535858394365952.0/10

dit\_atr2\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111 $\pm$ 0.000  $\chi^2$ /NDF: 32737841591587454251521906421545304064.0/14

Left Out: 1175.478 $\pm$ 0.000  $\chi^2$ /NDF: 39966991584790626200337106489810354176.0/11

Right Out: 1007.906 $\pm$ 0.000  $\chi^2$ /NDF: 69077878009873965622695939627477368832.0/15

Left In: 1277.097 $\pm$ 0.000  $\chi^2$ /NDF: 29578729901602647998073818936097374208.0/10

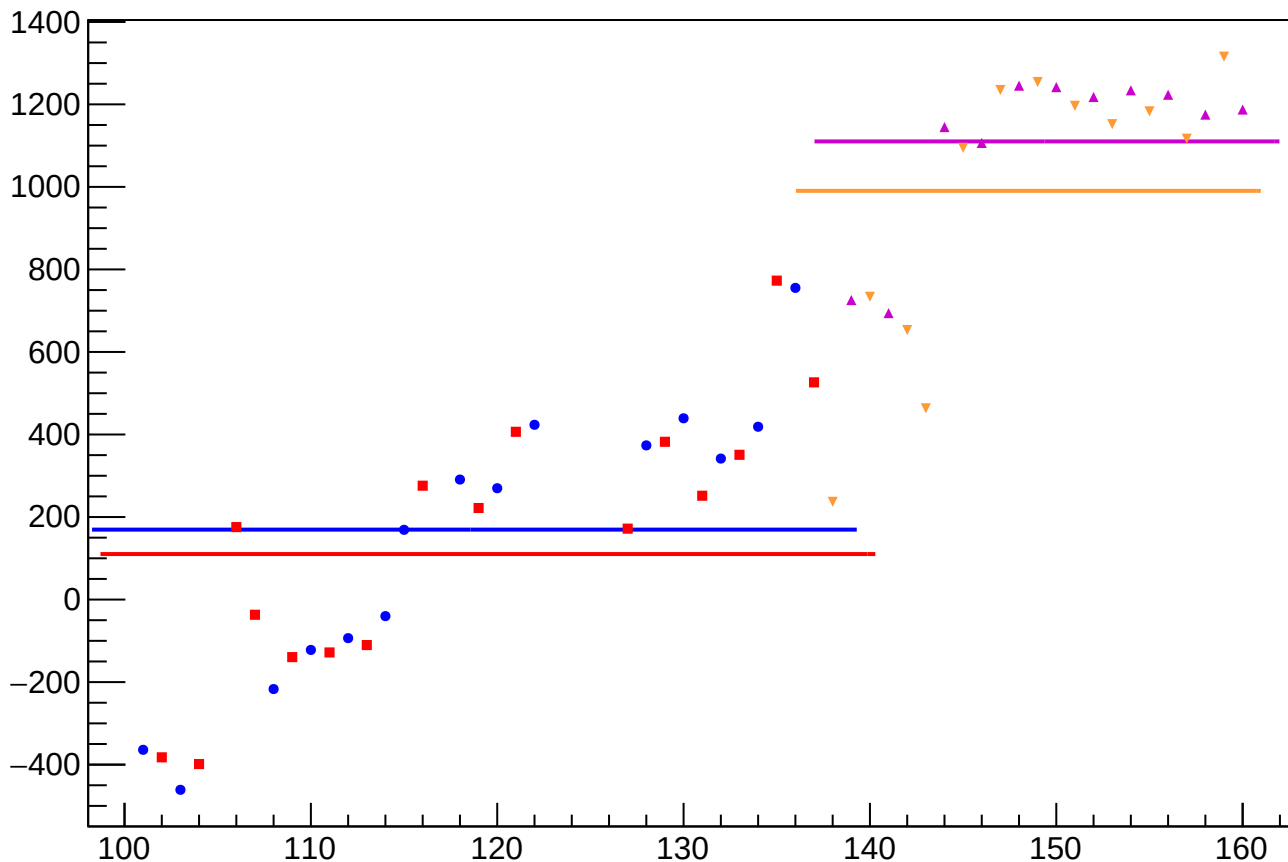
+ sign 1145.901 $\pm$ 0.000  $\chi^2$ /NDF: 74640424030704

All: 1155.145 $\pm$ 0.000  $\chi^2$ /NDF: 2016331328

- sign 1164.243 $\pm$ 0.000  $\chi^2$ /NDF: 12672719249309



# dit\_sam1\_coil3\_mean vs Slug



Right In: 169.489+/-0.000  $\chi^2/\text{NDF}$ : 95435894585210891032426613567490359296.0/14

Left Out: 990.430+/-0.000  $\chi^2/\text{NDF}$ : 103090910531659754312882501653991784448.0/11

Right Out: 110.289+/-0.000  $\chi^2/\text{NDF}$ : 71770784102052938523592716508479881216.0/15

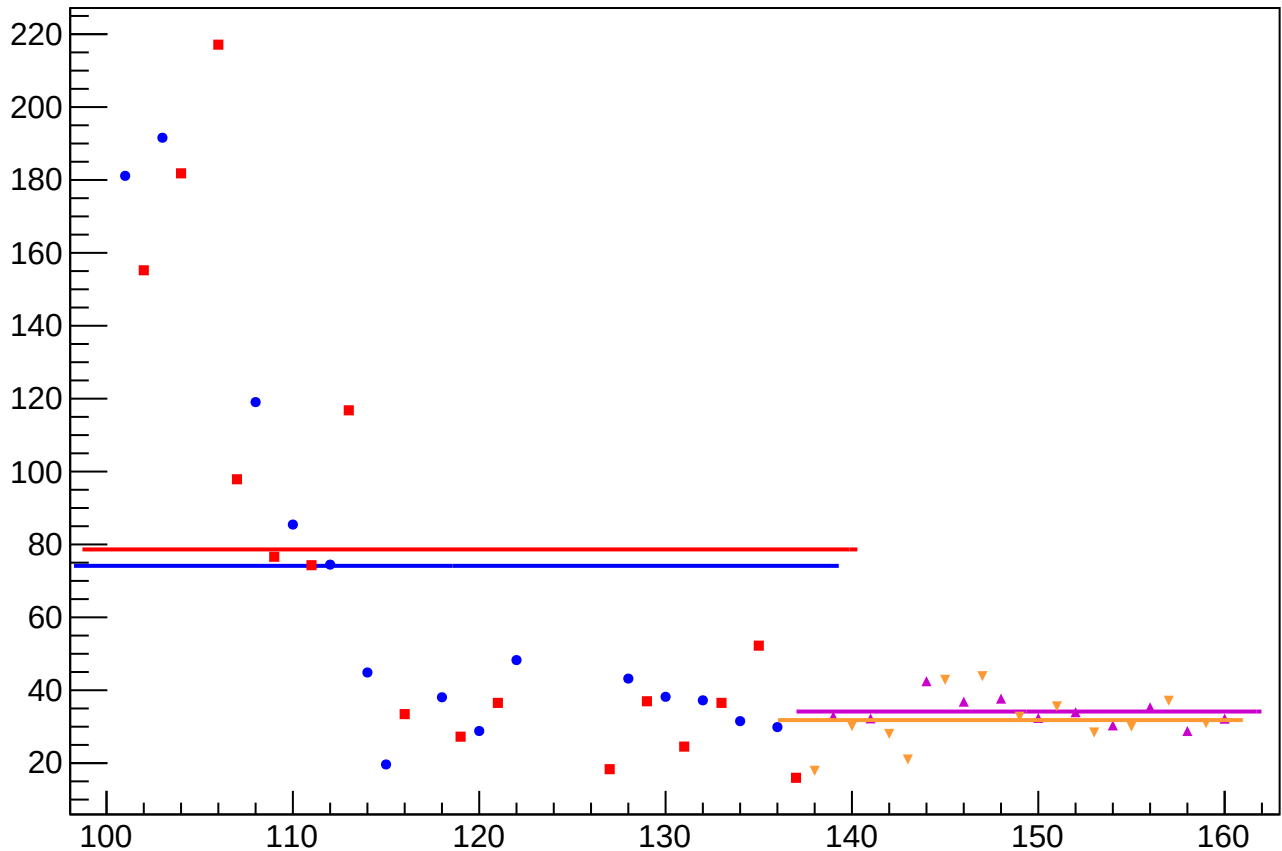
Left In: 1110.204+/-0.000  $\chi^2/\text{NDF}$ : 34078671675207101758695575343264169984.0/10

+ sign 650.206+/-0.000  $\chi^2/\text{NDF}$ : 454647994177762

All: 670.768+/-0.000  $\chi^2/\text{NDF}$ : 94911703358

- sign 691.006+/-0.000  $\chi^2/\text{NDF}$ : 493155274089920

dit\_sam1\_coil3\_err\_mean vs Slug



Right In: 74.129+/-0.000  $\chi^2/\text{NDF}$ : 2168375717401207322620658258081218560.0/14

Left Out: 31.811+/-0.000  $\chi^2/\text{NDF}$ : 49714502708074355804513533446586368.0/11

Right Out: 78.633+/-0.000  $\chi^2/\text{NDF}$ : 2343230336879830638767678903539466240.0/15

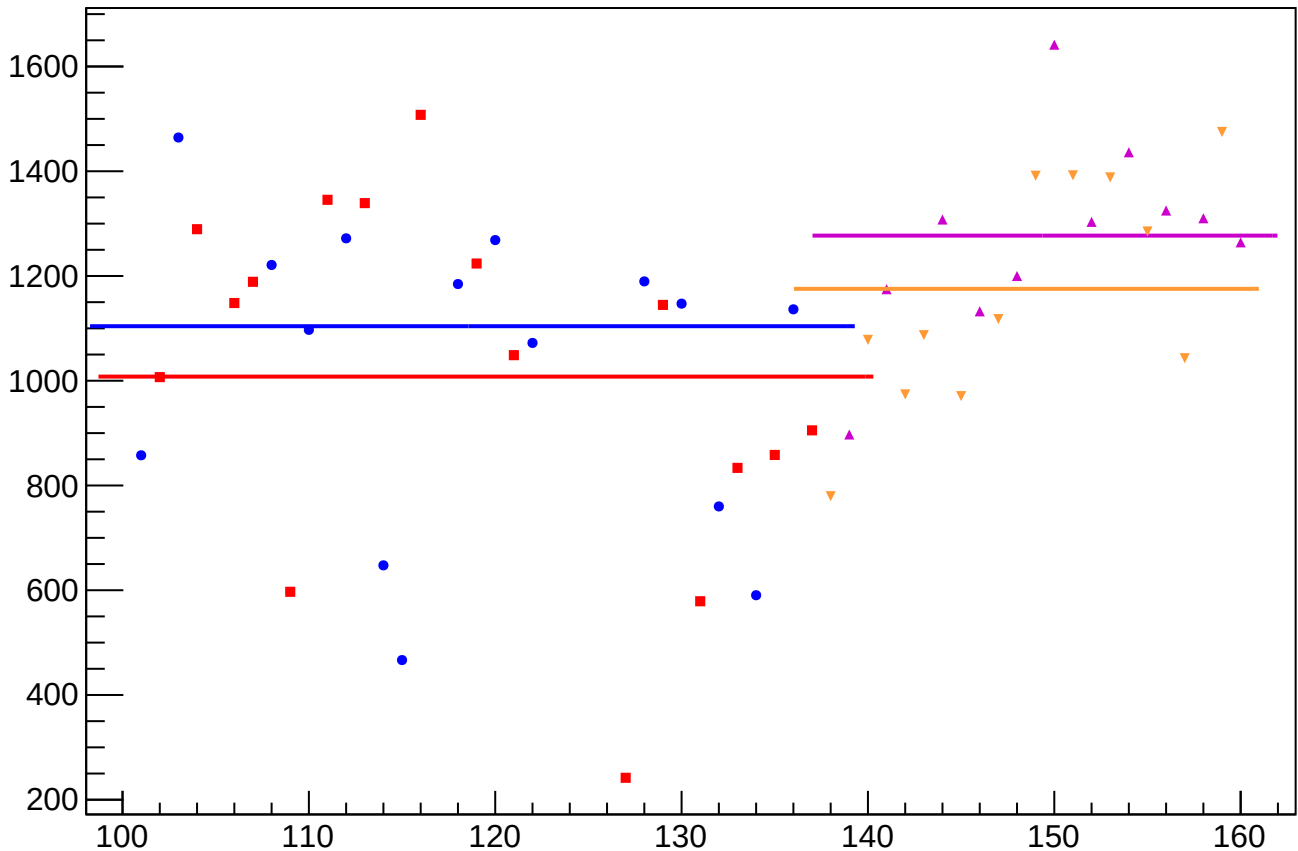
Left In: 34.158+/-0.000  $\chi^2/\text{NDF}$ : 12535781757096828038064244290224128.0/10

+ sign 49.349+/-0.000  $\chi^2/\text{NDF}$ : 2898641022839379

All: 51.090+/-0.000  $\chi^2/\text{NDF}$ : 6030042065717

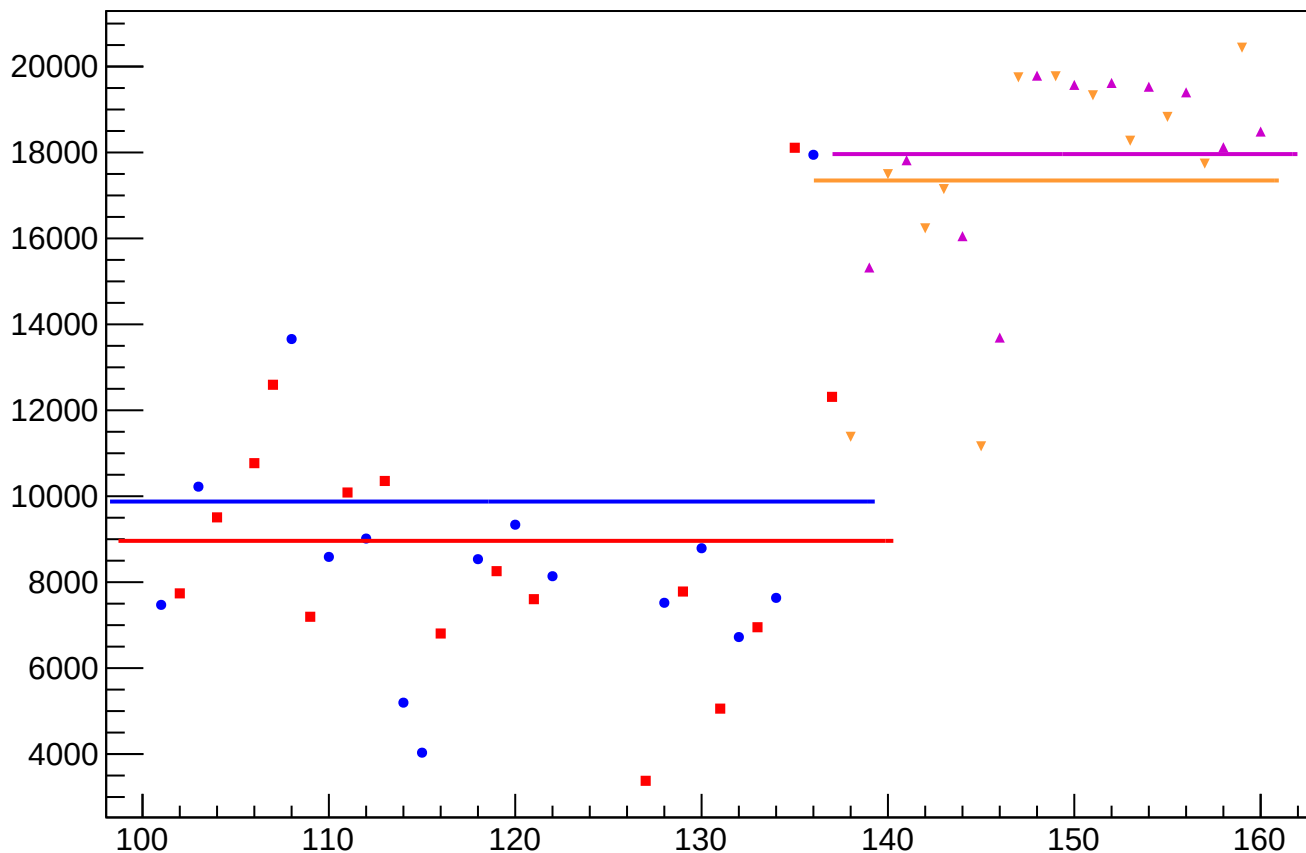
- sign 52.804+/-0.000  $\chi^2/\text{NDF}$ : 3121982731392082

dit\_sam1\_coil3\_Ndata\_mean vs Slug



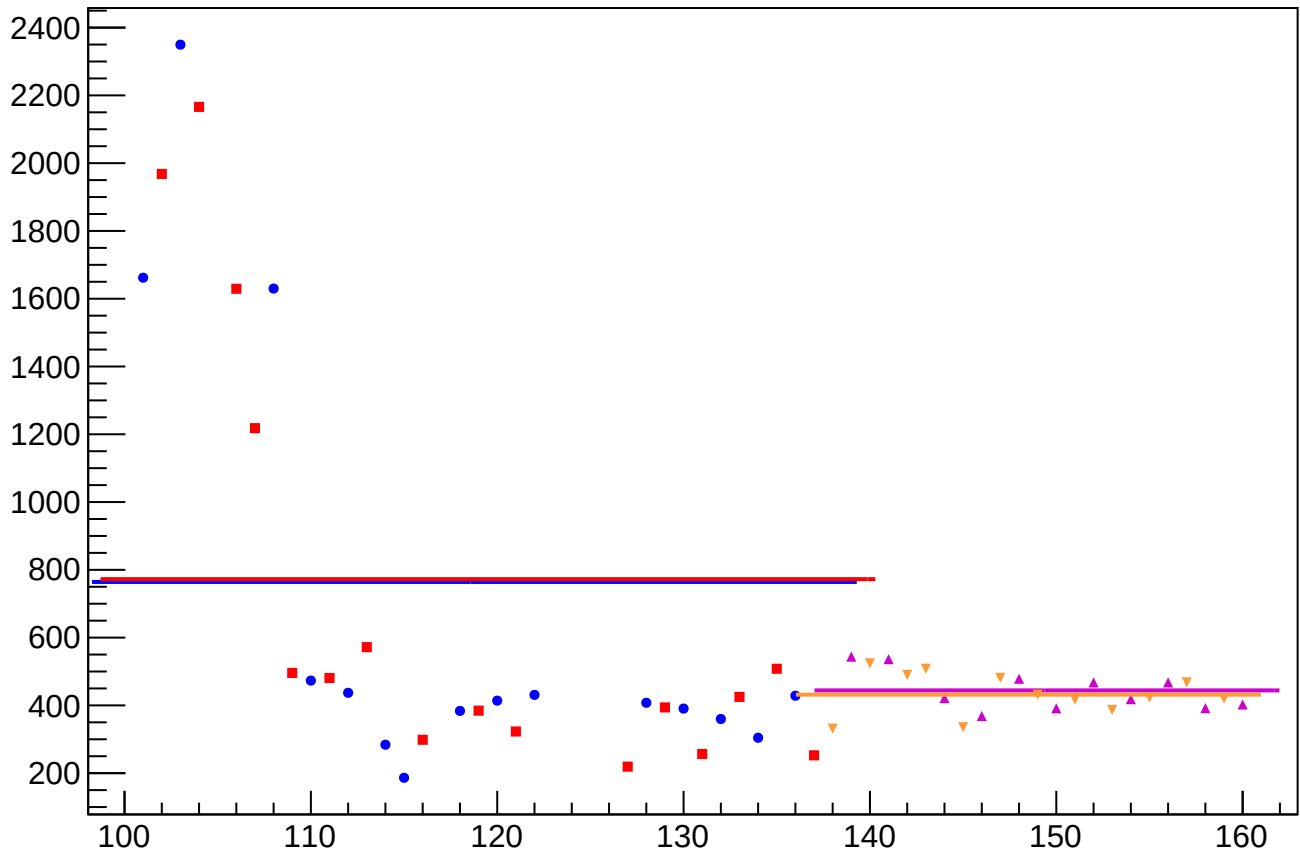
Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14  
 Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11  
 Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15  
 Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

# dit\_sam2\_coil3\_mean vs Slug



Right In: 9876.530+/-0.000  $\chi^2/\text{NDF}$ : 8483360287053054122301651905797133697024.0/14  
 Left Out: 17348.108+/-0.000  $\chi^2/\text{NDF}$ : 8207548108596149921739030122495561695232.0/11  
 Right Out: 8961.593+/-0.000  $\chi^2/\text{NDF}$ : 7583728644146461427304320888408335450112.0/15  
 Left In: 17962.529+/-0.000  $\chi^2/\text{NDF}$ : 3564698291142811133043344688261317525504.0/10

# dit\_sam2\_coil3\_err\_mean vs Slug



Right In: 764.284+/-0.000  $\chi^2/\text{NDF}$ : 290964758058269480005067205020030599168.0/14

Left Out: 431.662+/-0.000  $\chi^2/\text{NDF}$ : 3280421514159451222222919804563488768.0/11

Right Out: 772.547+/-0.000  $\chi^2/\text{NDF}$ : 285902138904642401278625587631891677184.0/15

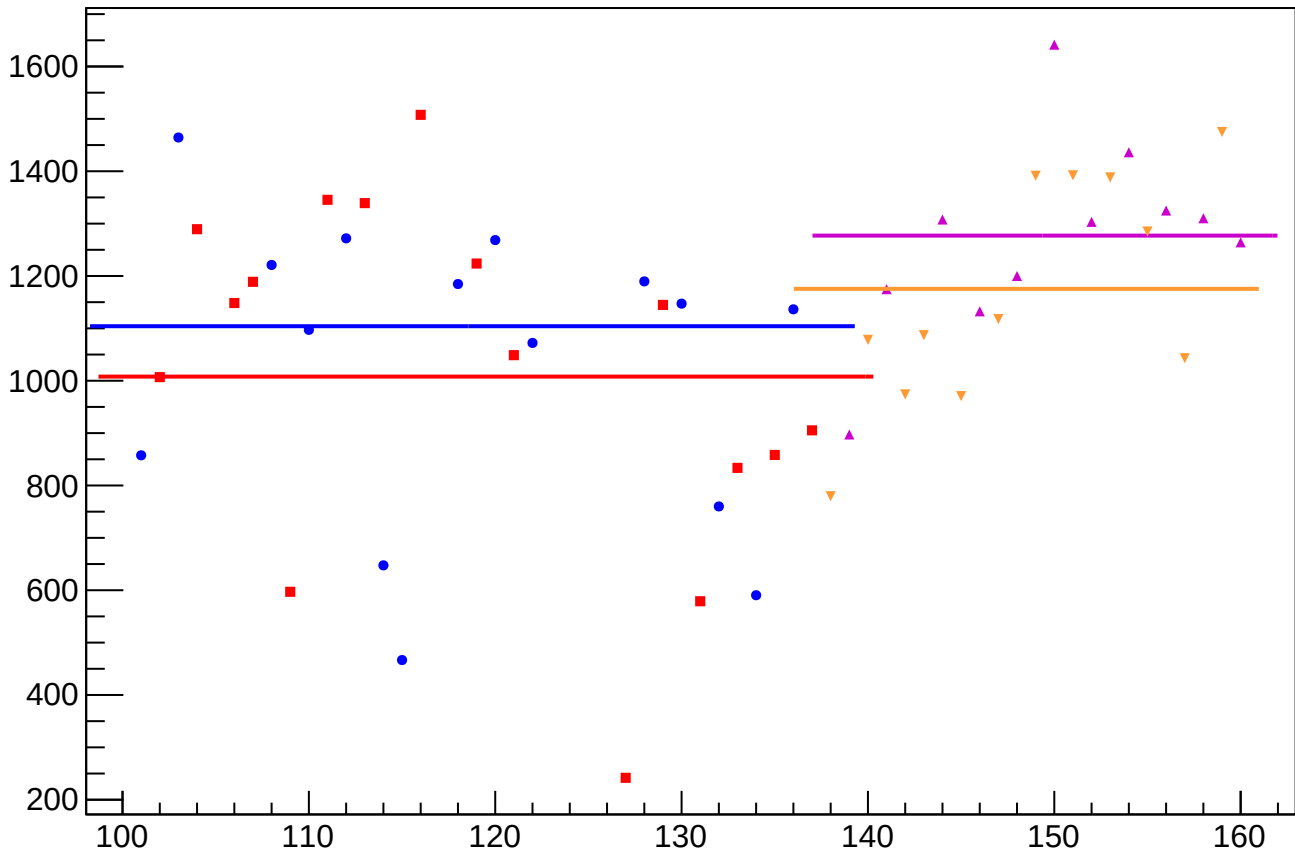
Left In: 444.245+/-0.000  $\chi^2/\text{NDF}$ : 2906625839452991270105053894151241728.0/10

+ sign 569.511+/-0.000  $\chi^2/\text{NDF}$ : 336291177714798

All: 575.745+/-0.000  $\chi^2/\text{NDF}$ : 666972649049

- sign 581.880+/-0.000  $\chi^2/\text{NDF}$ : 330560730510906

dit\_sam2\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

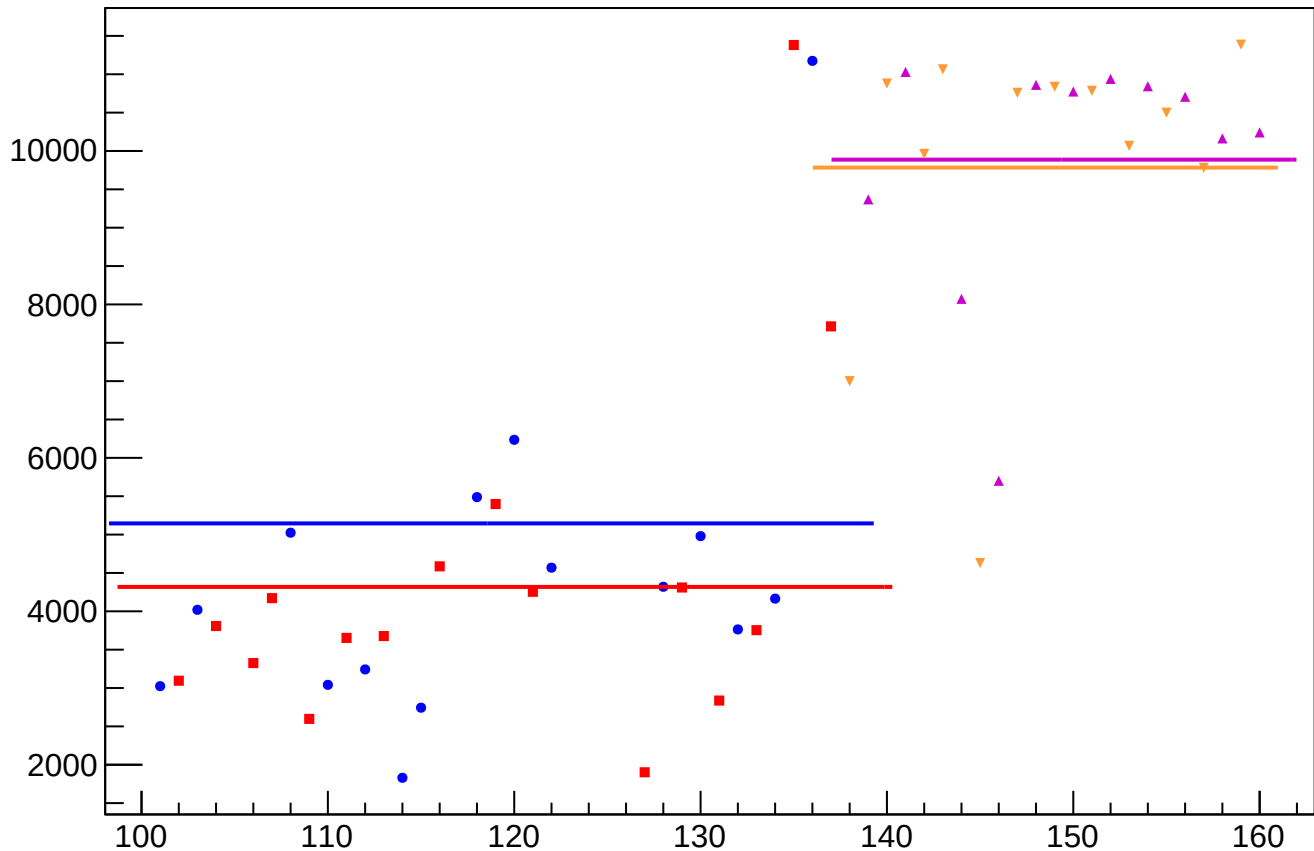
Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

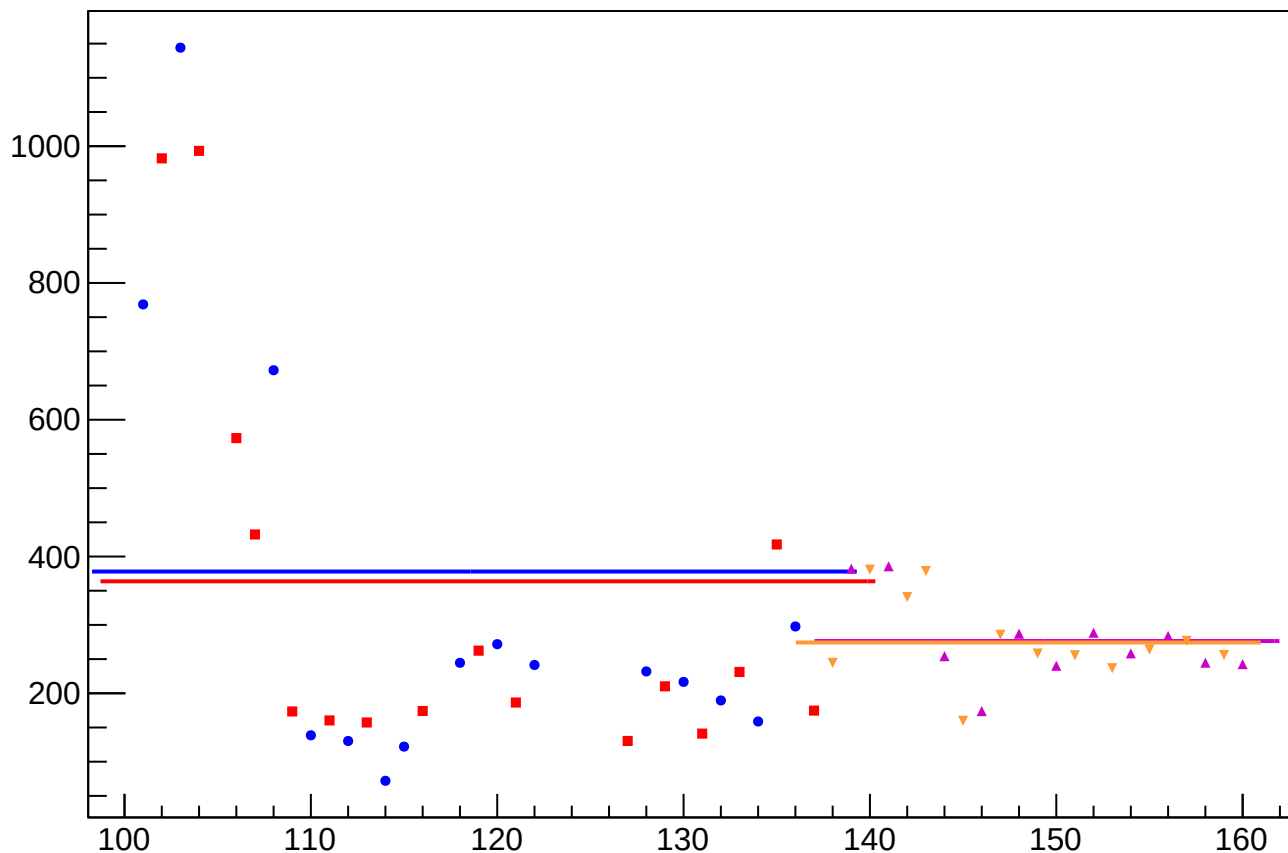
All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284.0/14

dit\_sam3\_coil3\_mean vs Slug



Right In: 5145.657+/-0.000  $\chi^2/\text{NDF}$ : 4272867262459372237810540195851662262272.0/14  
 Left Out: 9783.623+/-0.000  $\chi^2/\text{NDF}$ : 3463460967659182435053933688350532698112.0/11  
 Right Out: 4318.126+/-0.000  $\chi^2/\text{NDF}$ : 3345176554564755427312533888908526616576.0/15  
 Left In: 9887.069+/-0.000  $\chi^2/\text{NDF}$ : 2278516780225824082632420288802127347712.0/10

# dit\_sam3\_coil3\_err\_mean vs Slug



Right In: 378.052 $\pm$ 0.000  $\chi^2$ /NDF: 61516590022593053040860760861331947520.0/14

Left Out: 274.281 $\pm$ 0.000  $\chi^2$ /NDF: 3210866570321724501306846670770667520.0/11

Right Out: 363.772 $\pm$ 0.000  $\chi^2$ /NDF: 59031337484709801804181439342706688000.0/15

Left In: 276.429 $\pm$ 0.000  $\chi^2$ /NDF: 3176476969276554988209041450490396672.0/10

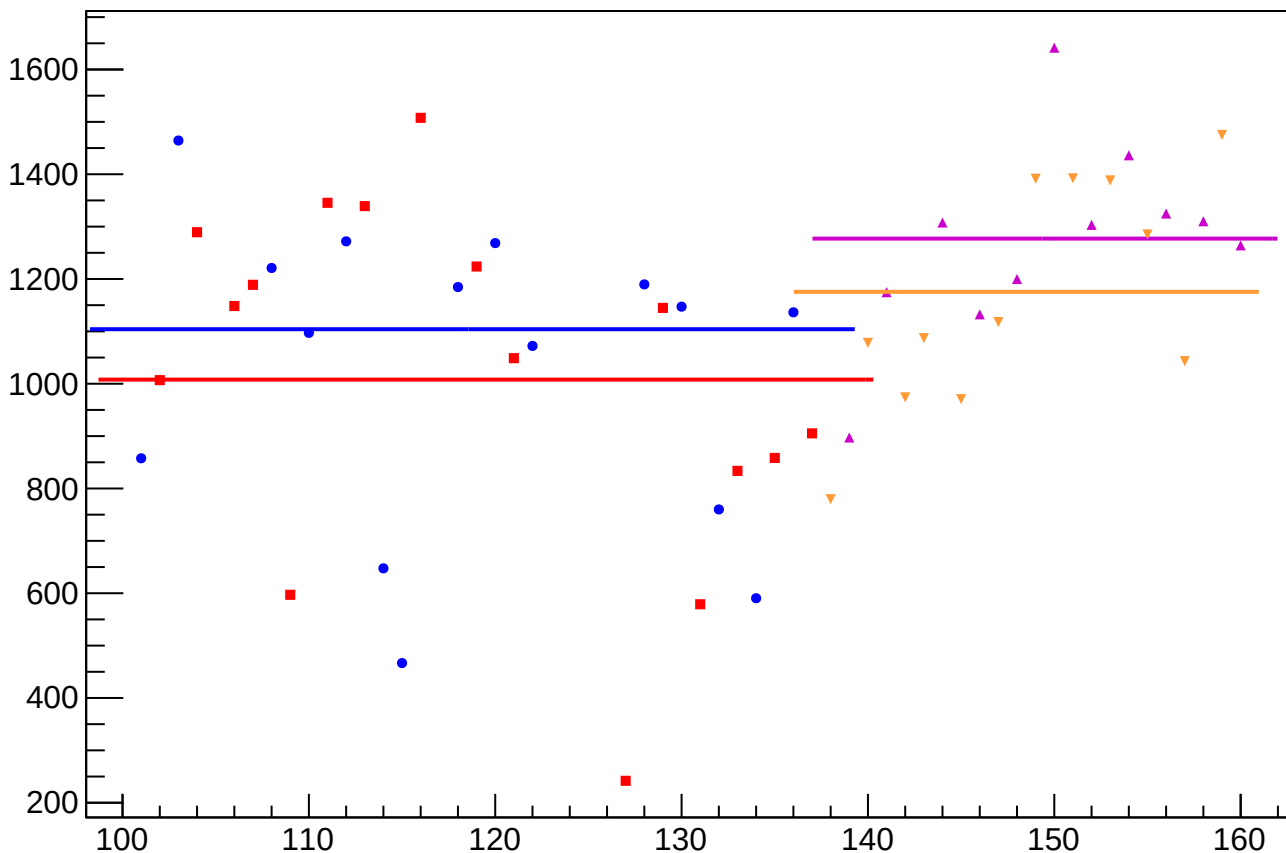
+ sign 317.287 $\pm$ 0.000  $\chi^2$ /NDF: 688198238811862

All: 315.150 $\pm$ 0.000  $\chi^2$ /NDF: 133997003769

- sign 313.047 $\pm$ 0.000  $\chi^2$ /NDF: 651629892548713



dit\_sam3\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

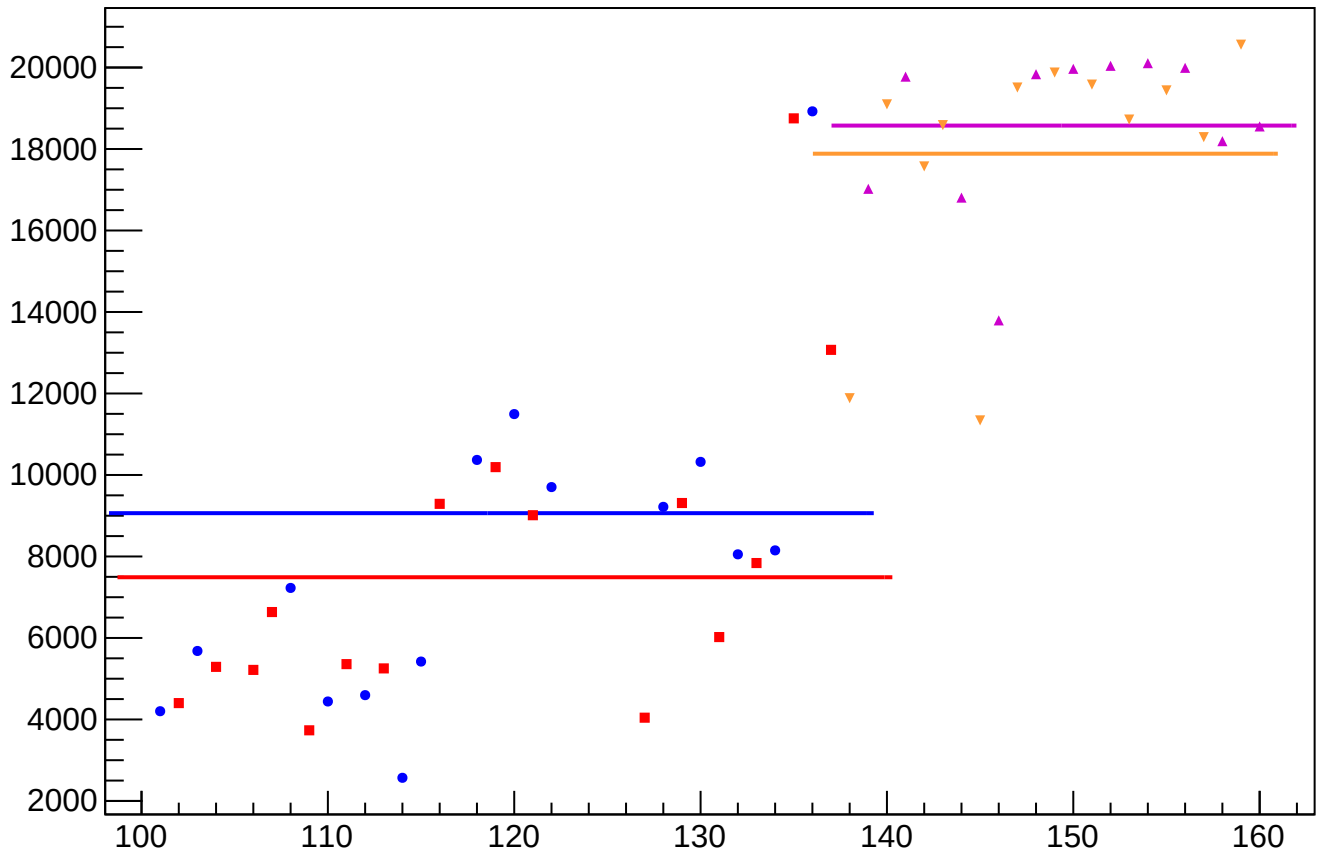
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284

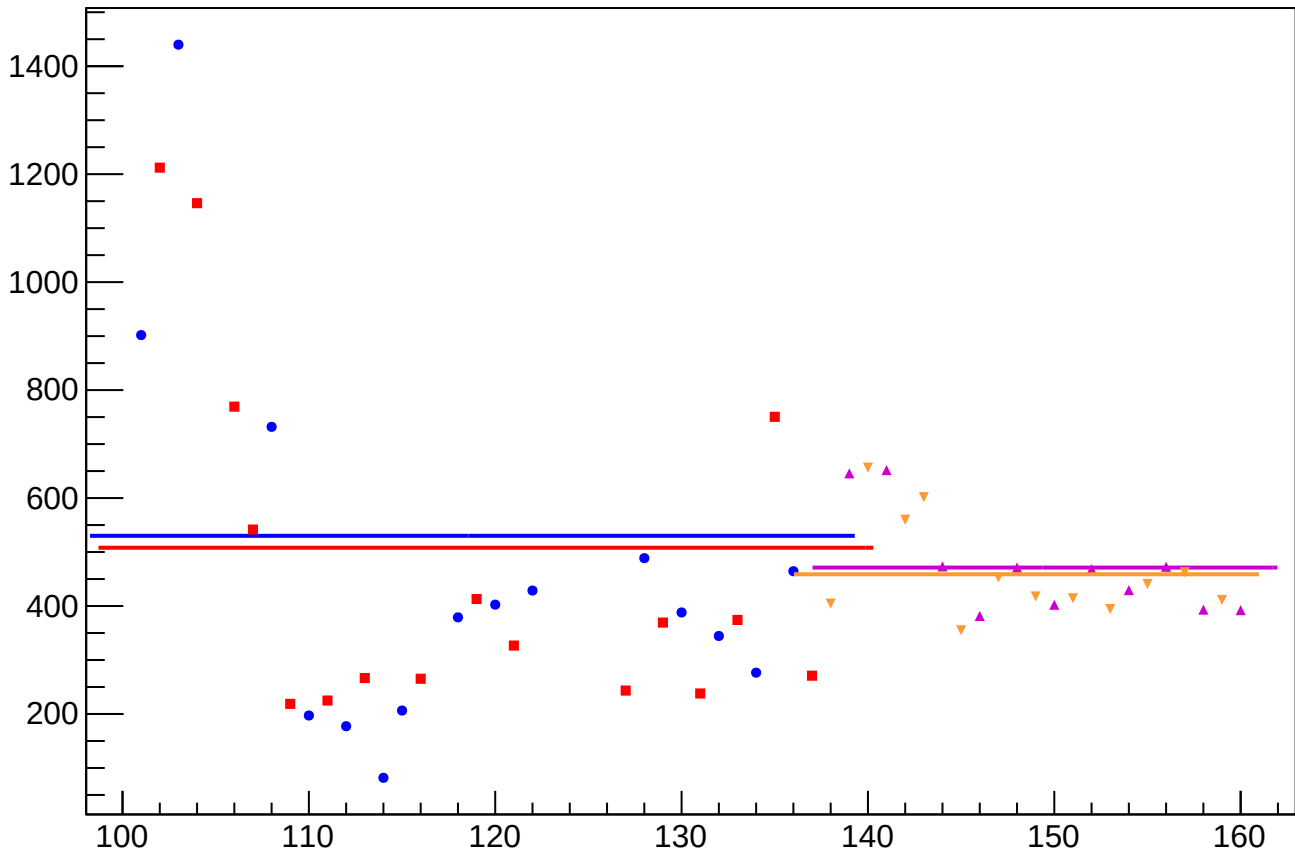
- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

# dit\_sam4\_coil3\_mean vs Slug



Right In: 9062.710+/-0.000  $\chi^2/\text{NDF}$ : 13621066943114354594159252409175431446528.0/14  
 Left Out: 17884.828+/-0.000  $\chi^2/\text{NDF}$ : 8035777278860305028144675580255817170944.0/11  
 Right Out: 7490.147+/-0.000  $\chi^2/\text{NDF}$ : 10108202124204139932285006457388239159296.0/15  
 Left In: 18574.874+/-0.000  $\chi^2/\text{NDF}$ : 3371752936319538414648384836142763081728.0/10

dit\_sam4\_coil3\_err\_mean vs Slug



Right In: 530.057+/-0.000  $\chi^2/\text{NDF}$ : 78754676063063255524046471751880671232.0/14

+ sign 488.335+/-0.000  $\chi^2/\text{NDF}$ : 876795060631457

Left Out: 458.806+/-0.000  $\chi^2/\text{NDF}$ : 6995521594489868747173366228733394944.0/11

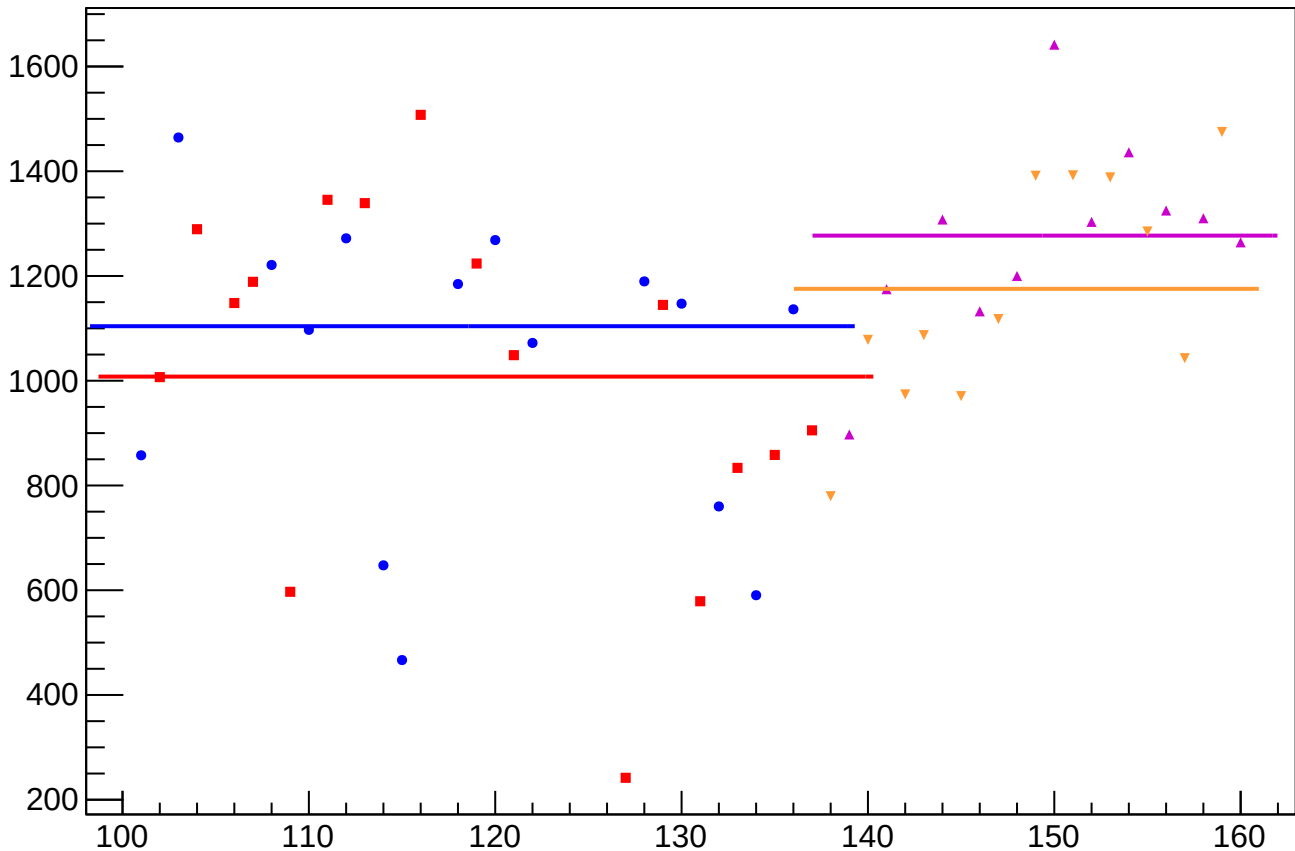
All: 487.478+/-0.000  $\chi^2/\text{NDF}$ : 17234116496

Right Out: 507.987+/-0.000  $\chi^2/\text{NDF}$ : 76689734698308464337881841969555046400.0/15

- sign 486.633+/-0.000  $\chi^2/\text{NDF}$ : 846593738129805

Left In: 471.219+/-0.000  $\chi^2/\text{NDF}$ : 744597321916033625746772011051745280.0/10

dit\_sam4\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

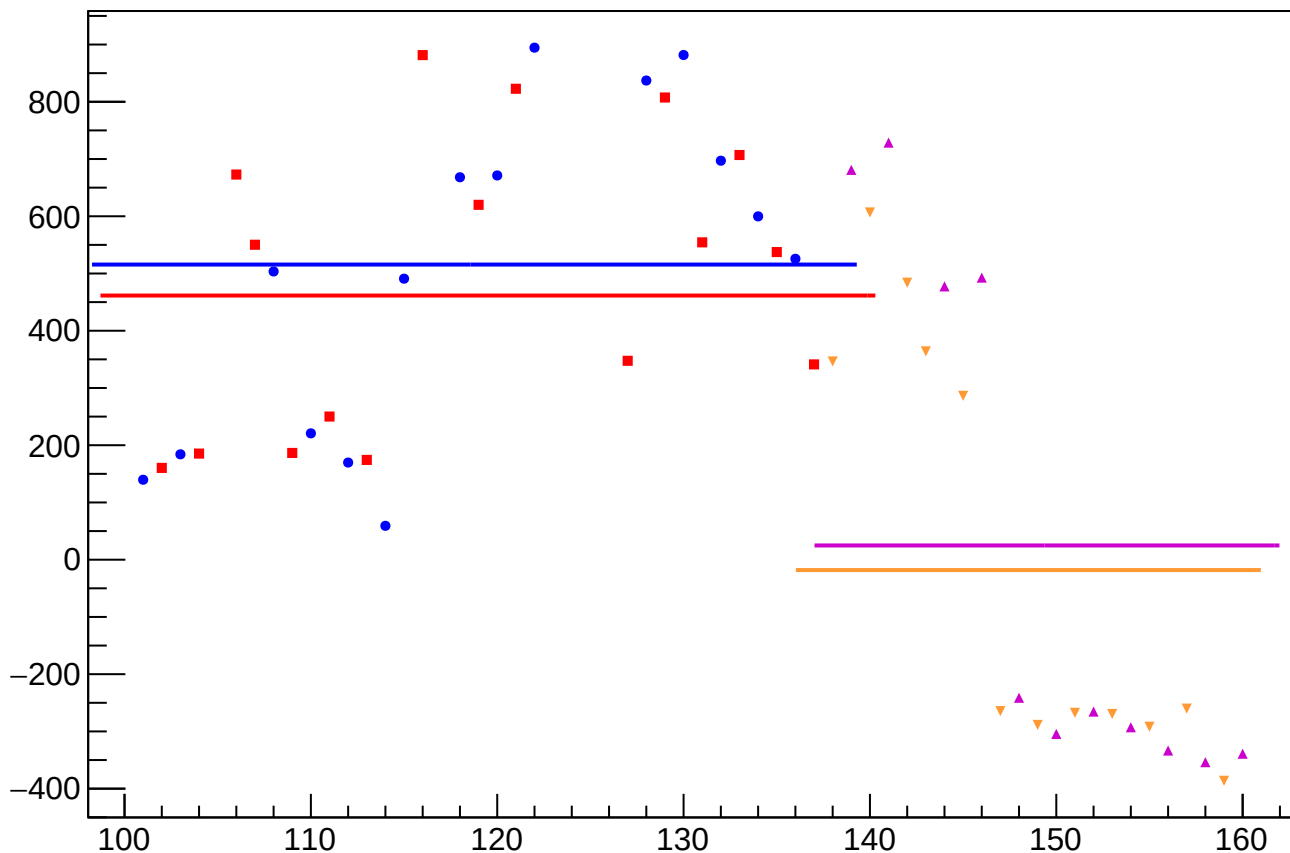
Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704  
 All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284  
 - sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

# dit\_sam5\_coil3\_mean vs Slug



Right In: 515.635+/-0.000  $\chi^2/\text{NDF}$ : 48465403420573957292673062371162324992.0/14

Left Out: -18.086+/-0.000  $\chi^2/\text{NDF}$ : 113760261442063078265103594368341639168.0/11

Right Out: 461.497+/-0.000  $\chi^2/\text{NDF}$ : 40473746660091355928063306884368564224.0/15

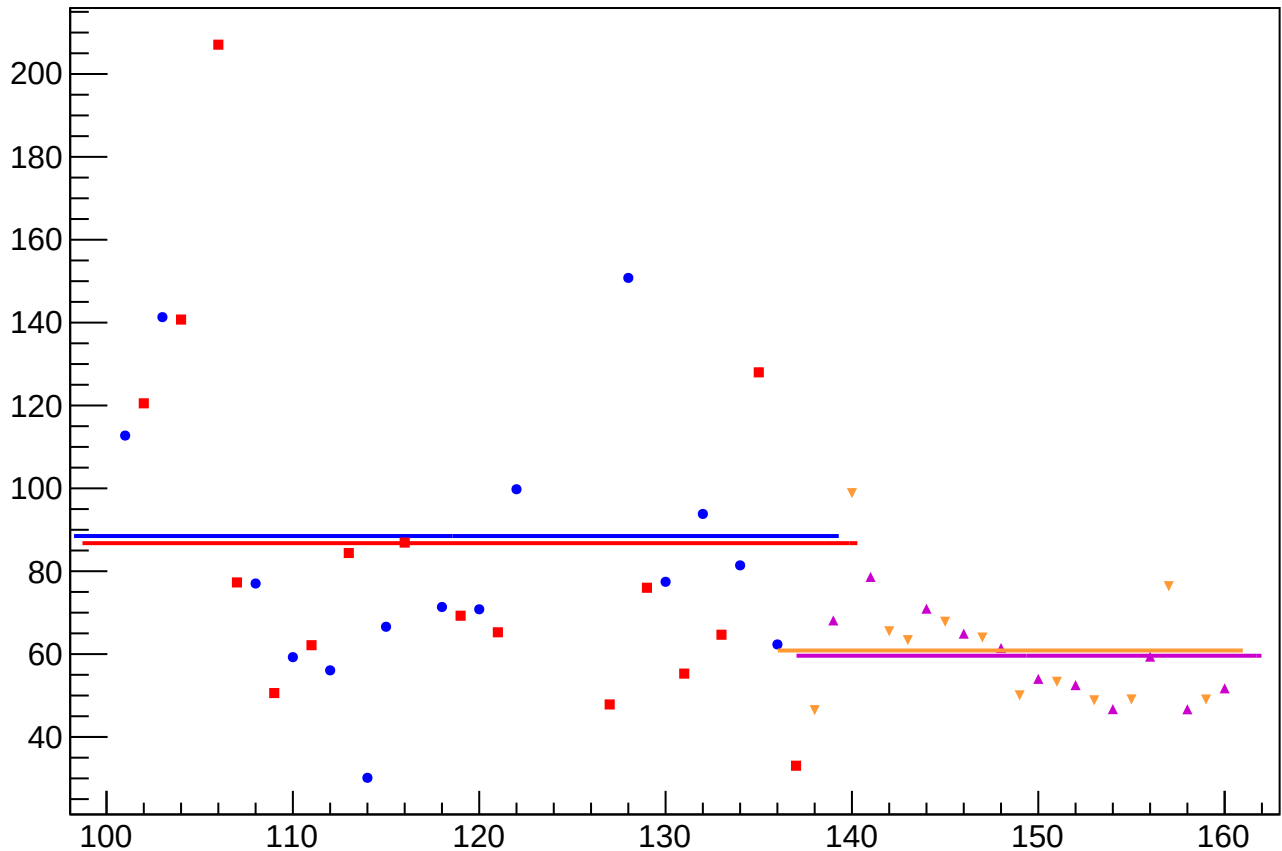
Left In: 24.898+/-0.000  $\chi^2/\text{NDF}$ : 177170083146066340419686697250307702784.0/10

+ sign 203.105+/-0.000  $\chi^2/\text{NDF}$ : 270481717005925

All: 205.539+/-0.000  $\chi^2/\text{NDF}$ : 561984373916

- sign 207.935+/-0.000  $\chi^2/\text{NDF}$ : 291484247202932

dit\_sam5\_coil3\_err\_mean vs Slug



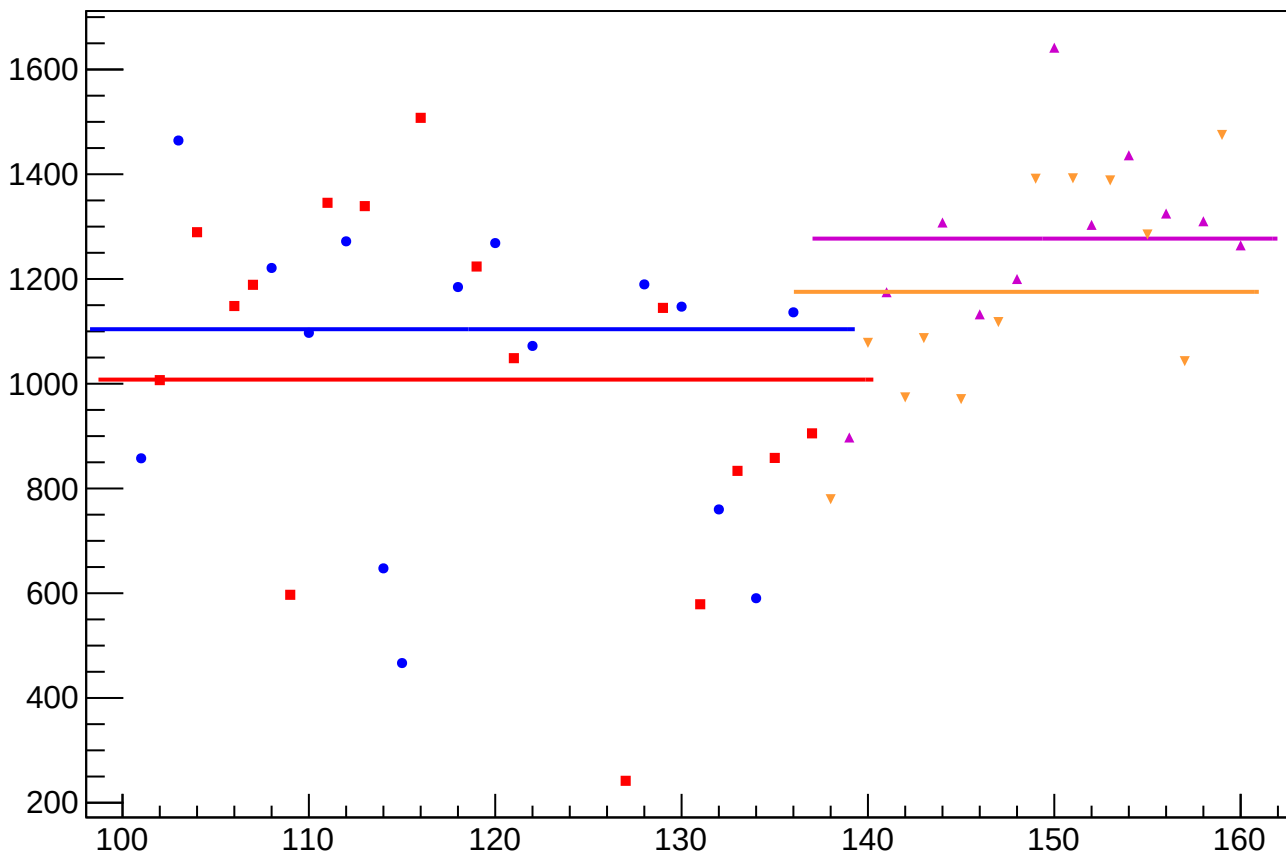
Right In: 88.493+/-0.000  $\chi^2/\text{NDF}$ : 643231155193035512625817963208900608.0/14

Left Out: 60.867+/-0.000  $\chi^2/\text{NDF}$ : 208334830420842687698000766503485440.0/11

Right Out: 86.773+/-0.000  $\chi^2/\text{NDF}$ : 1059206766314086021240525003228708864.0/15

Left In: 59.604+/-0.000  $\chi^2/\text{NDF}$ : 90862625181985664375323463168032768.0/10

dit\_sam5\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

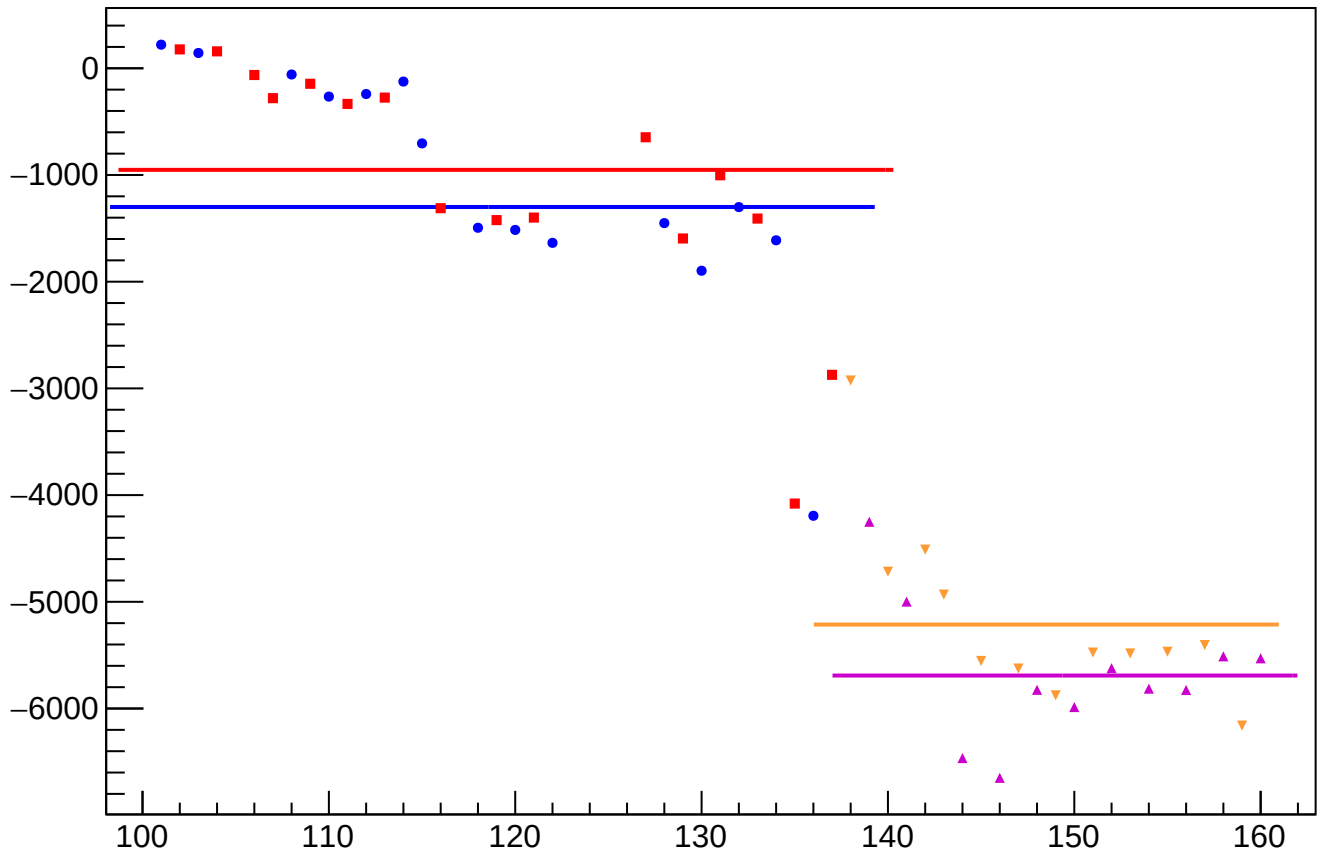
Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 2016331328

- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

dit\_sam6\_coil3\_mean vs Slug



Right In: -1299.904+/-0.000

$\chi^2/\text{NDF}$ : 1199649252163216367086408691577524322304.0/14

Left Out: -5213.053+/-0.000

+ sign -3591.320+/-0.000  $\chi^2/\text{NDF}$ : 7626032277897  
 $\chi^2/\text{NDF}$ : 607024723474712138909900039656470216704.0/11

Right Out: -951.903+/-0.000

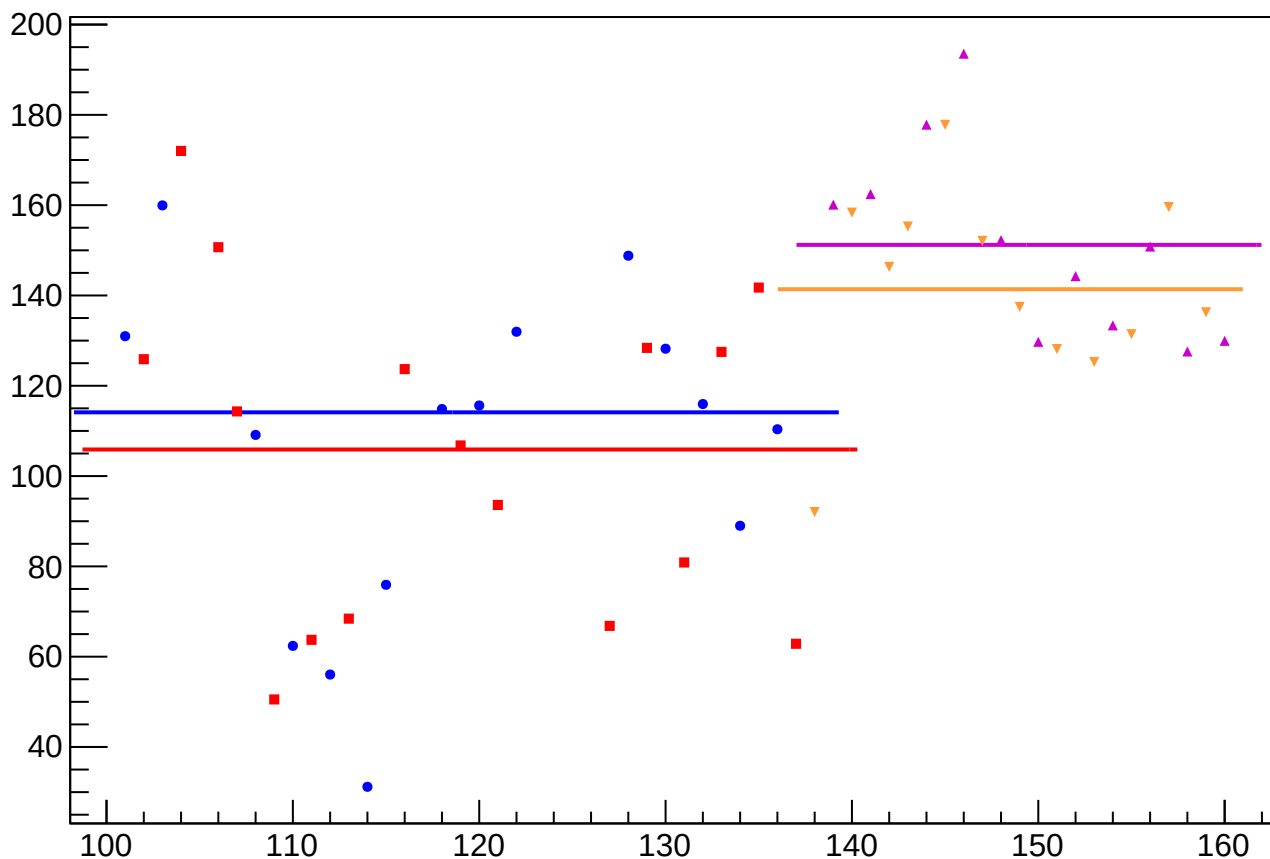
All: -3648.196+/-0.000  $\chi^2/\text{NDF}$ : 1753294640  
 $\chi^2/\text{NDF}$ : 841314696863657044174468284217089327104.0/15

Left In: -5690.941+/-0.000

- sign -3704.179+/-0.000  $\chi^2/\text{NDF}$ : 98968619860202  
 $\chi^2/\text{NDF}$ : 355774620722948866968040460749891436544.0/10



dit\_sam6\_coil3\_err\_mean vs Slug



Right In: 114.118 $\pm$ 0.000  $\chi^2$ /NDF: 607226770891525118881736460452495360.0/14

+ sign 130.082 $\pm$ 0.000  $\chi^2$ /NDF: 130663489676661

Left Out: 141.380 $\pm$ 0.000  $\chi^2$ /NDF: 416963026310292285514058989674954752.0/11

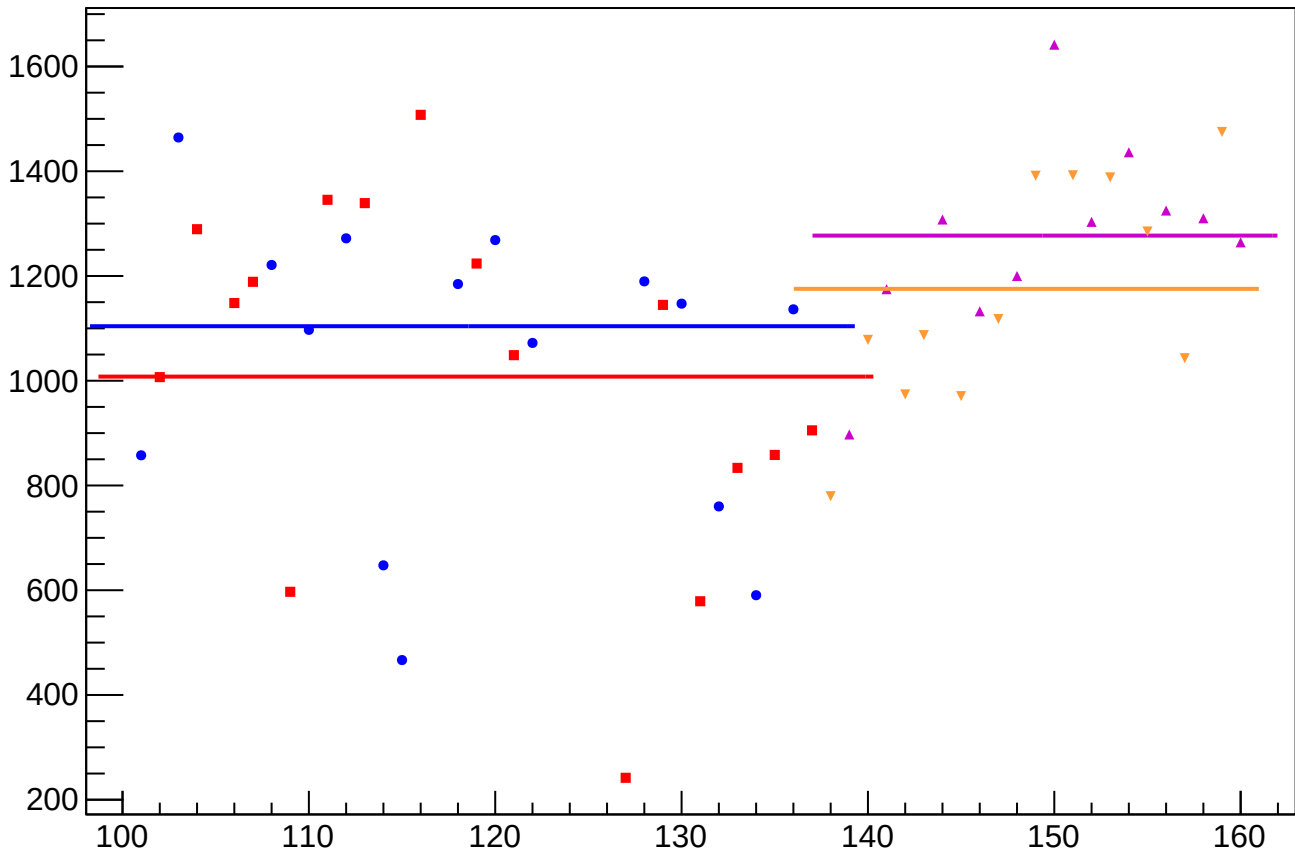
All: 131.152 $\pm$ 0.000  $\chi^2$ /NDF: 333967931914

Right Out: 105.890 $\pm$ 0.000  $\chi^2$ /NDF: 851861355270591521058611007535972352.0/15

- sign 132.206 $\pm$ 0.000  $\chi^2$ /NDF: 202948230636755

Left In: 151.203 $\pm$ 0.000  $\chi^2$ /NDF: 382227652604999337577431549784096768.0/10

dit\_sam6\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

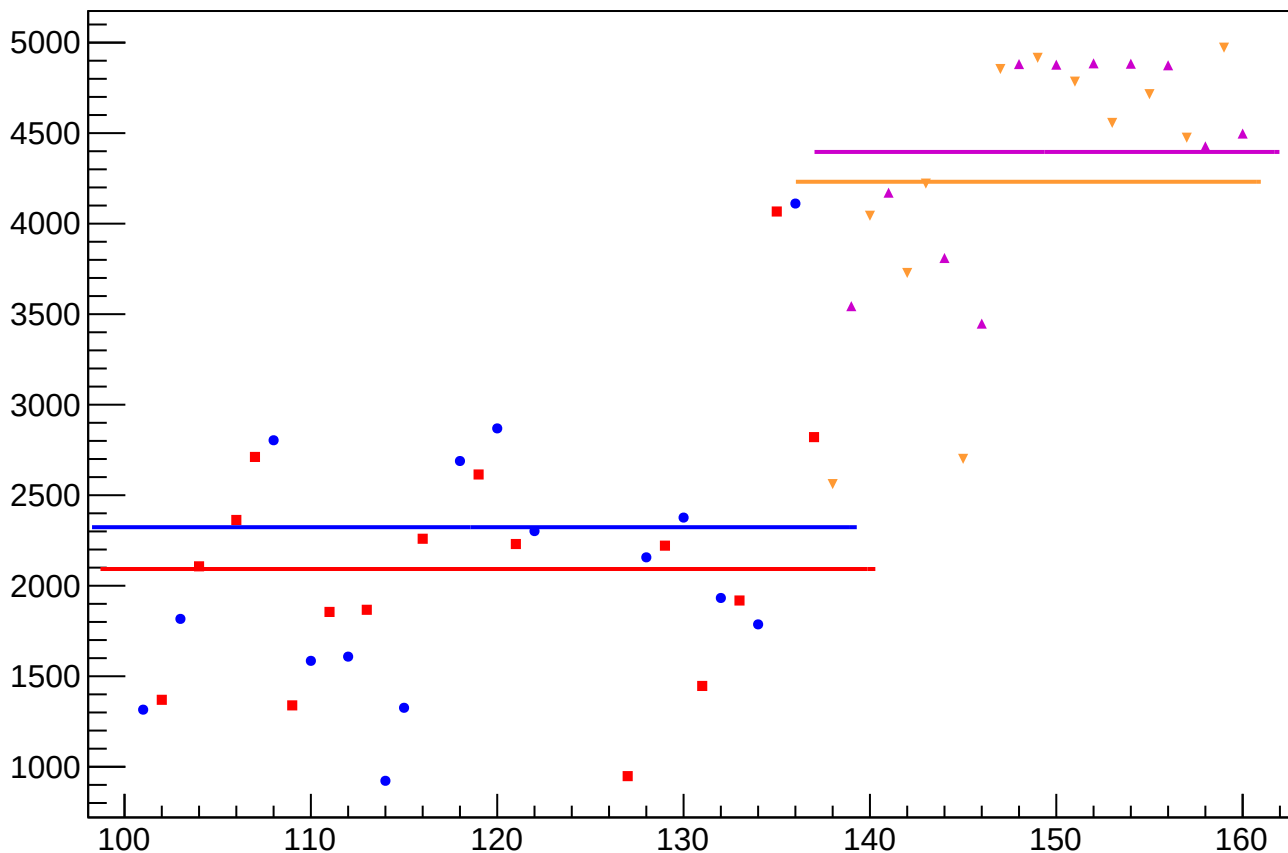
Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704  
 All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 20163313284  
 - sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309

# dit\_sam7\_coil3\_mean vs Slug



Right In: 2323.372+/-0.000  $\chi^2/\text{NDF}$ : 476371189888349375964725620757728591872.0/14

Left Out: 4231.380+/-0.000  $\chi^2/\text{NDF}$ : 591264758783455505140129278309664030720.0/11

Right Out: 2092.458+/-0.000  $\chi^2/\text{NDF}$ : 367126080872166122663684022473339174912.0/15

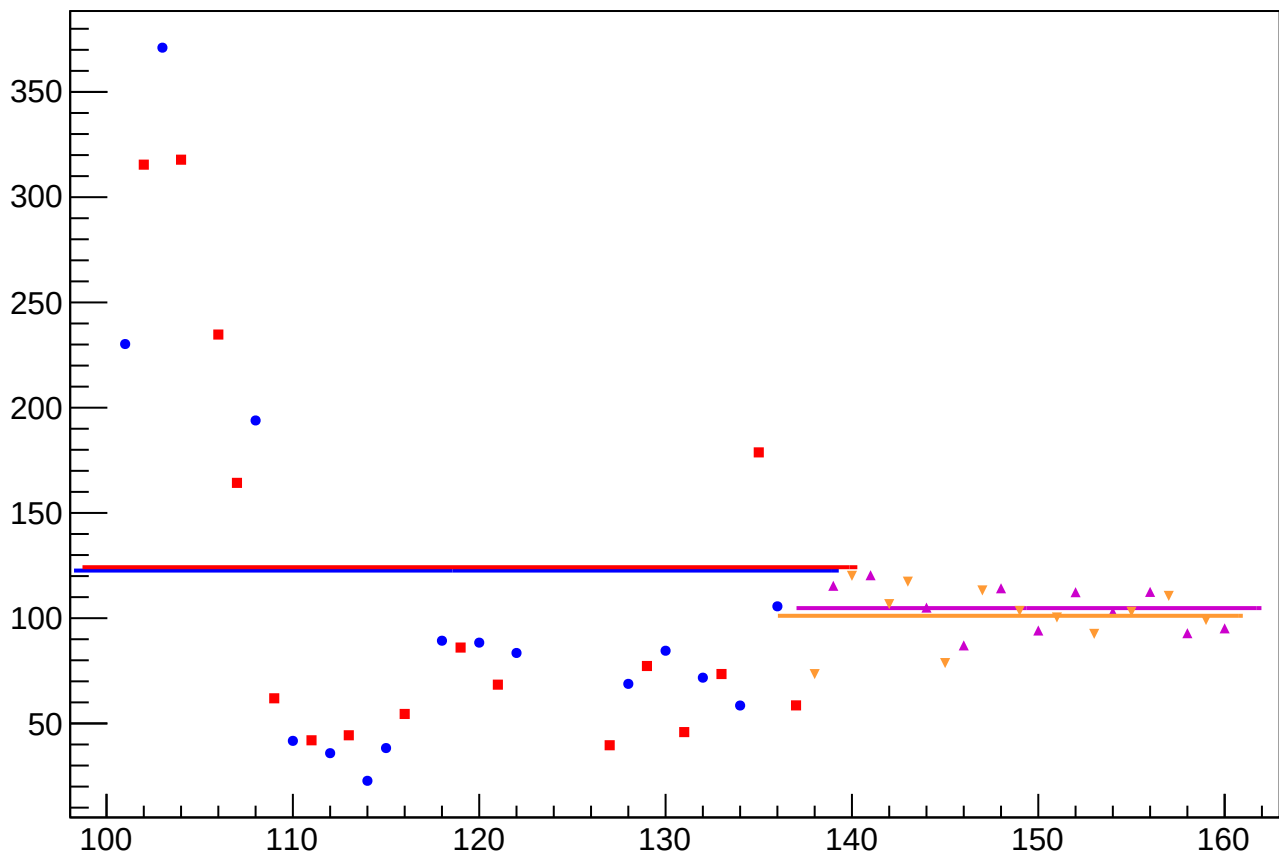
Left In: 4396.069+/-0.000  $\chi^2/\text{NDF}$ : 270326441631367265143713722564756897792.0/10

+ sign 3440.641+/-0.000  $\chi^2/\text{NDF}$ : 24511476216121

All: 3435.439+/-0.000  $\chi^2/\text{NDF}$ : 51443191328

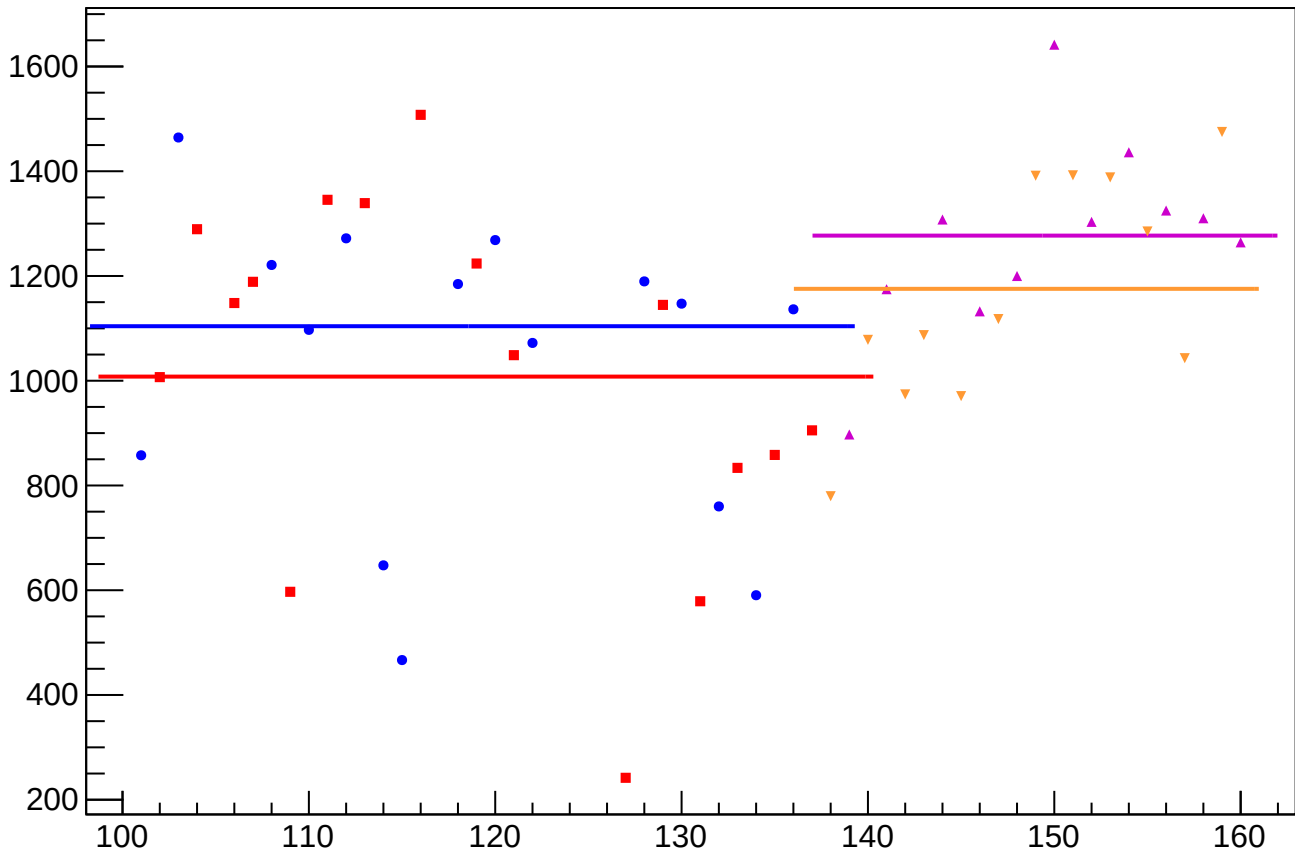
- sign 3430.319+/-0.000  $\chi^2/\text{NDF}$ : 26930874223674

dit\_sam7\_coil3\_err\_mean vs Slug



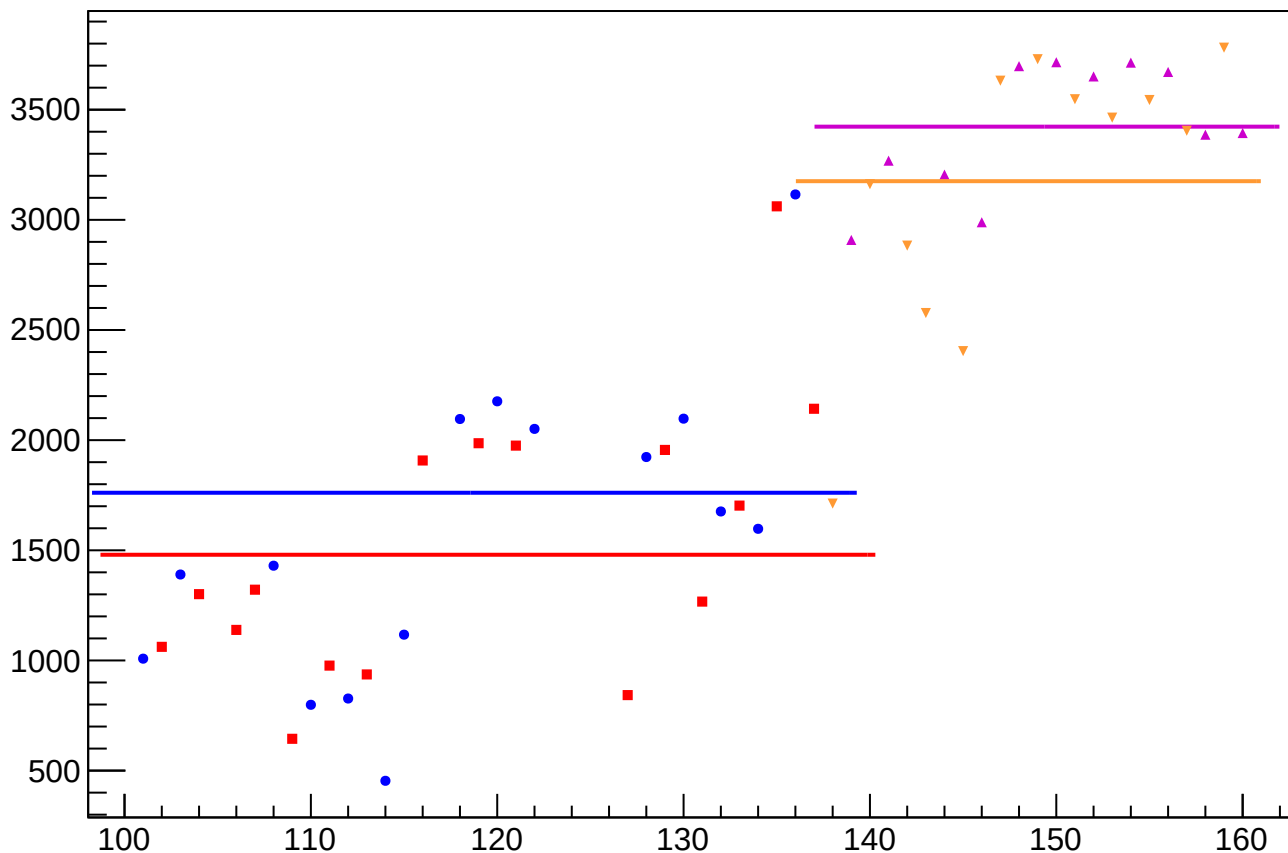
Right In: 122.622 $\pm$ 0.000  $\chi^2$ /NDF: 5937504661187691145903235842749497344.0/14  
 Left Out: 101.138 $\pm$ 0.000  $\chi^2$ /NDF: 175111456477451966804115550397005824.0/11  
 Right Out: 124.216 $\pm$ 0.000  $\chi^2$ /NDF: 6549627589629012958791202941129719808.0/15  
 Left In: 104.786 $\pm$ 0.000  $\chi^2$ /NDF: 102013785381333837493435451846950912.0/10

dit\_sam7\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14  
 Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11  
 Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15  
 Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

# dit\_sam8\_coil3\_mean vs Slug



Right In: 1761.245+/-0.000  $\chi^2/\text{NDF}$ : 332206925976055306953064744993096204288.0/14

Left Out: 3175.502+/-0.000  $\chi^2/\text{NDF}$ : 347291191980203589558827802227239813120.0/11

Right Out: 1479.801+/-0.000  $\chi^2/\text{NDF}$ : 263467768134780968832551238609236131840.0/15

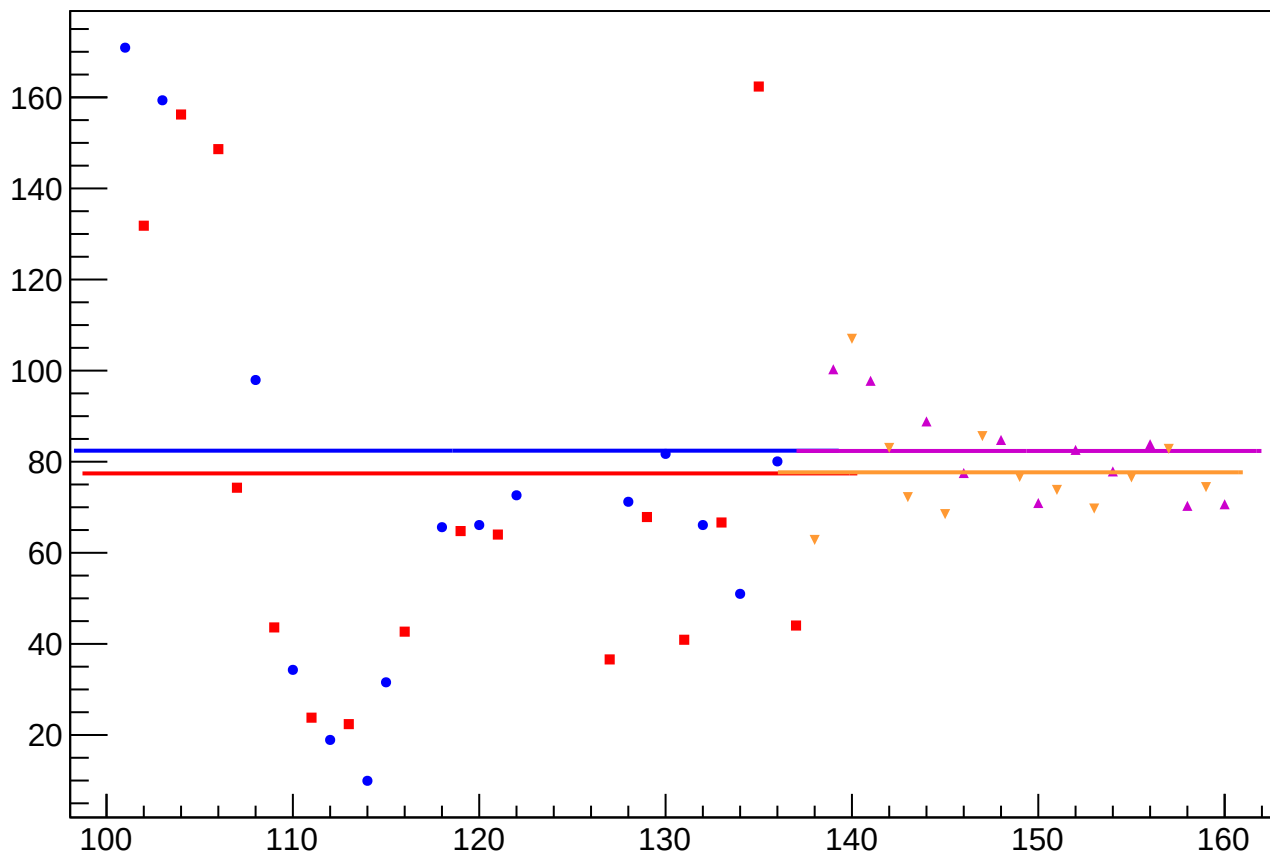
Left In: 3423.018+/-0.000  $\chi^2/\text{NDF}$ : 74537038842088882463869581727568494592.0/10

+ sign 2589.389+/-0.000  $\chi^2/\text{NDF}$ : 14396126563155

All: 2598.948+/-0.000  $\chi^2/\text{NDF}$ : 32406517167

- sign 2608.357+/-0.000  $\chi^2/\text{NDF}$ : 18007551336700

dit\_sam8\_coil3\_err\_mean vs Slug



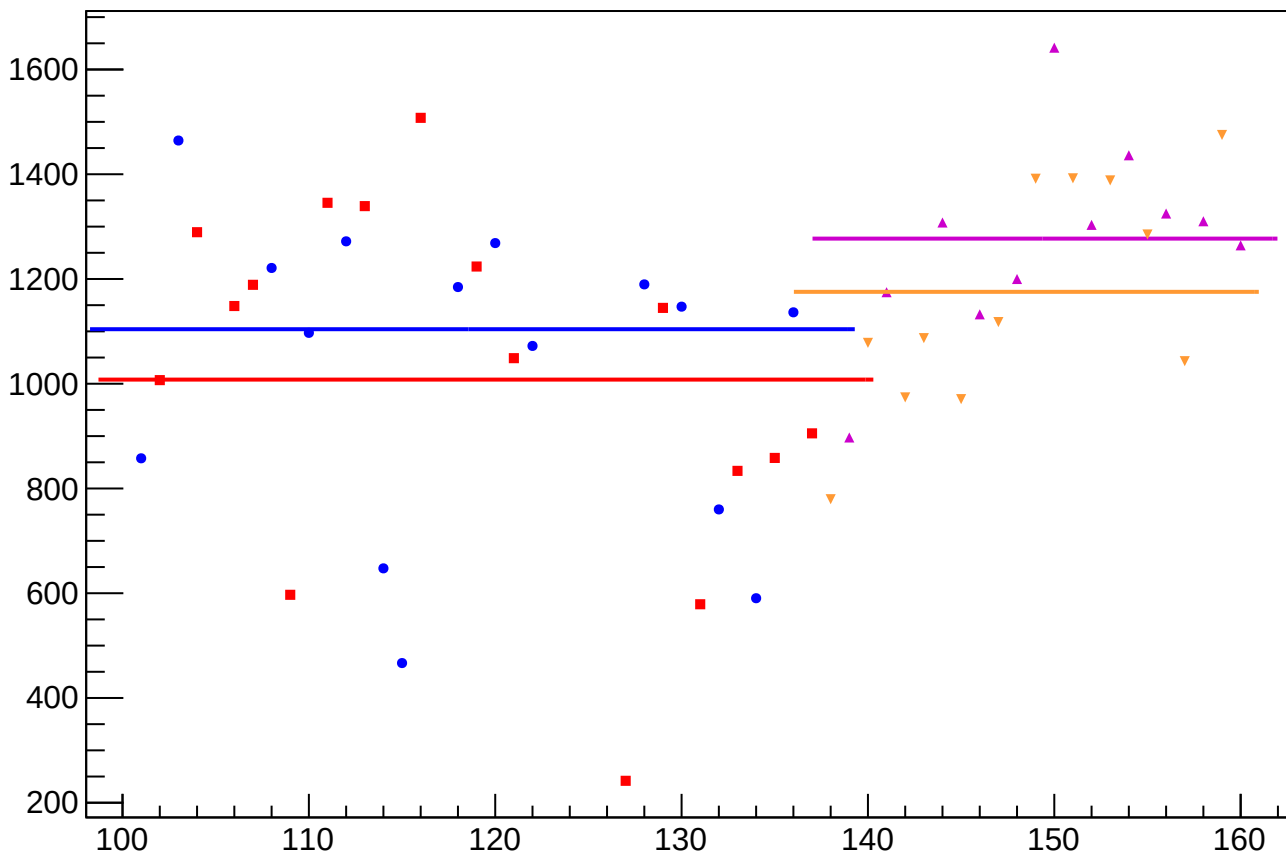
Right In: 82.422+/-0.000  $\chi^2/\text{NDF}$ : 1263633347129443757477527241185296384.0/14

Left Out: 77.672+/-0.000  $\chi^2/\text{NDF}$ : 112359425970115396973191851205984256.0/11

Right Out: 77.430+/-0.000  $\chi^2/\text{NDF}$ : 1515456409368458038568290276111024128.0/15

Left In: 82.361+/-0.000  $\chi^2/\text{NDF}$ : 88160536769186096496846966890692608.0/10

dit\_sam8\_coil3\_Ndata\_mean vs Slug



Right In: 1104.111+/-0.000  $\chi^2/\text{NDF}$ : 32737841591587454251521906421545304064.0/14

Left Out: 1175.478+/-0.000  $\chi^2/\text{NDF}$ : 39966991584790626200337106489810354176.0/11

Right Out: 1007.906+/-0.000  $\chi^2/\text{NDF}$ : 69077878009873965622695939627477368832.0/15

Left In: 1277.097+/-0.000  $\chi^2/\text{NDF}$ : 29578729901602647998073818936097374208.0/10

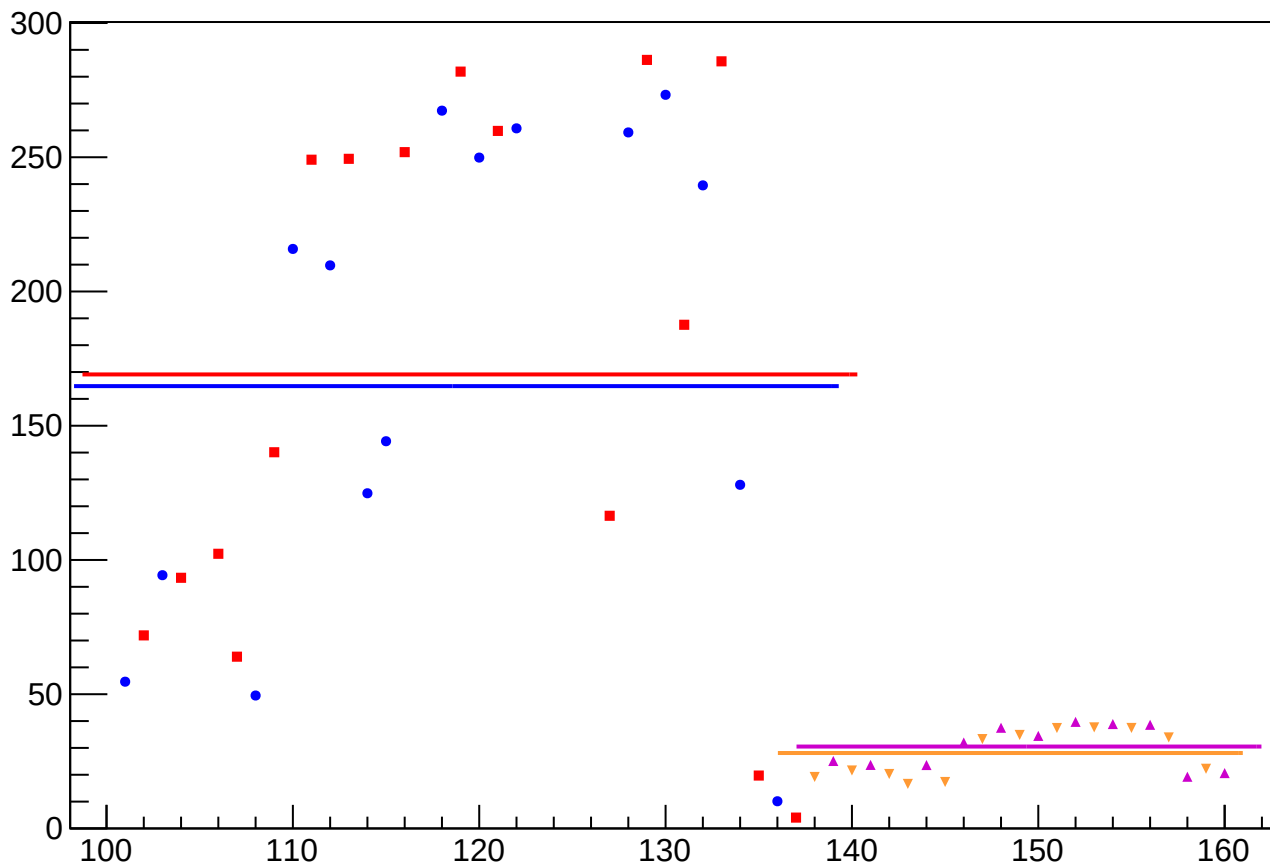
+ sign 1145.901+/-0.000  $\chi^2/\text{NDF}$ : 74640424030704

All: 1155.145+/-0.000  $\chi^2/\text{NDF}$ : 2016331328

- sign 1164.243+/-0.000  $\chi^2/\text{NDF}$ : 12672719249309



dit\_4aX\_coil7\_mean vs Slug



Right In: 164.752+/-0.000  $\chi^2/\text{NDF}$ : 6369828943181833917425699916554960896.0/14

Left Out: 28.100+/-0.000  $\chi^2/\text{NDF}$ : 63517357309911090447070669792346112.0/11

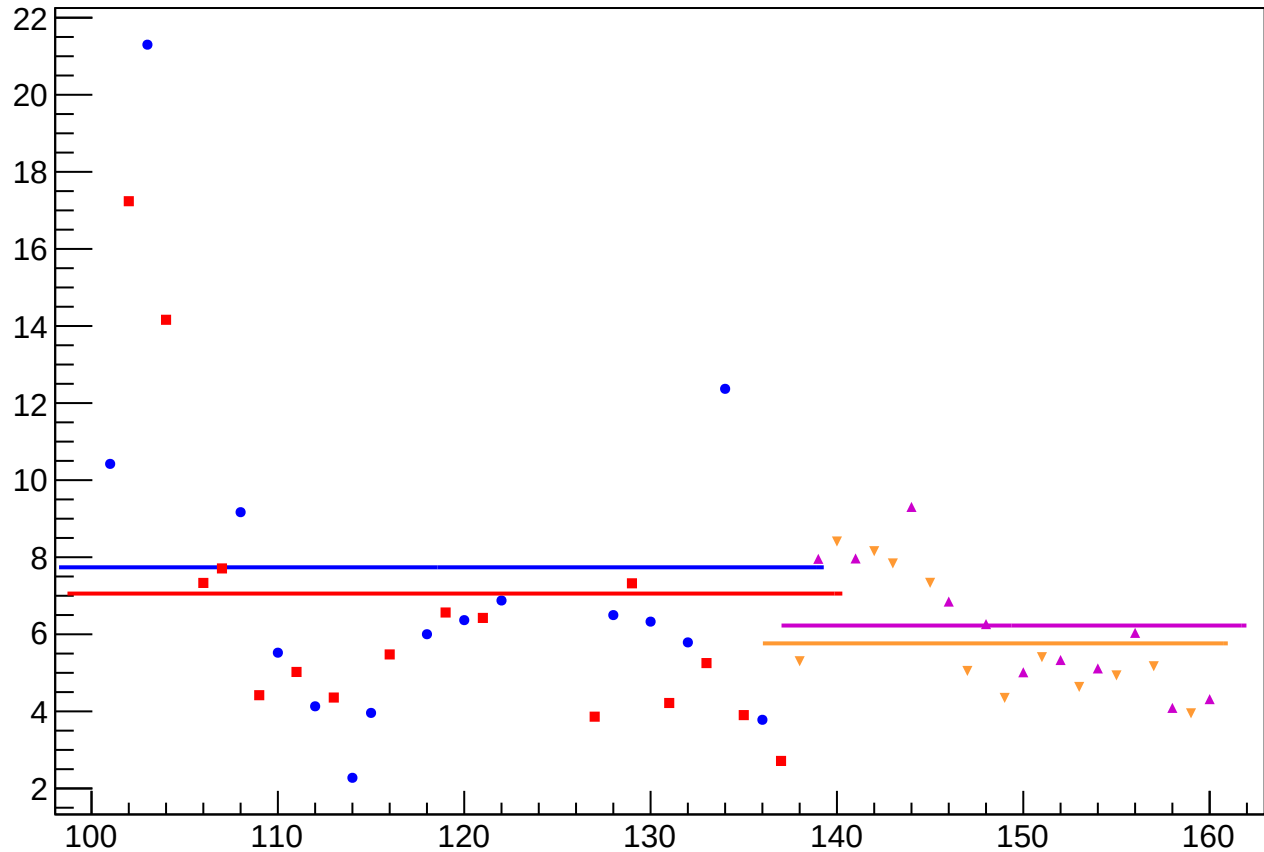
Right Out: 169.108+/-0.000  $\chi^2/\text{NDF}$ : 6040721802042936822766910687819071488.0/15

Left In: 30.507+/-0.000  $\chi^2/\text{NDF}$ : 52600700148274049801586699671699456.0/10

All: 86.688+/-0.000  $\chi^2/\text{NDF}$ : 2707660561203

- sign 88.613+/-0.000  $\chi^2/\text{NDF}$ : 1353475070284198

dit\_4aX\_coil7\_err\_mean vs Slug



Right In: 7.738+/-0.000  $\chi^2/\text{NDF}$ : 15127215479234506007469492768079872.0/14

Left Out: 5.764+/-0.000  $\chi^2/\text{NDF}$ : 2014473932574383690261327211659264.0/11

Right Out: 7.057+/-0.000  $\chi^2/\text{NDF}$ : 11292441204139394792341242753581056.0/15

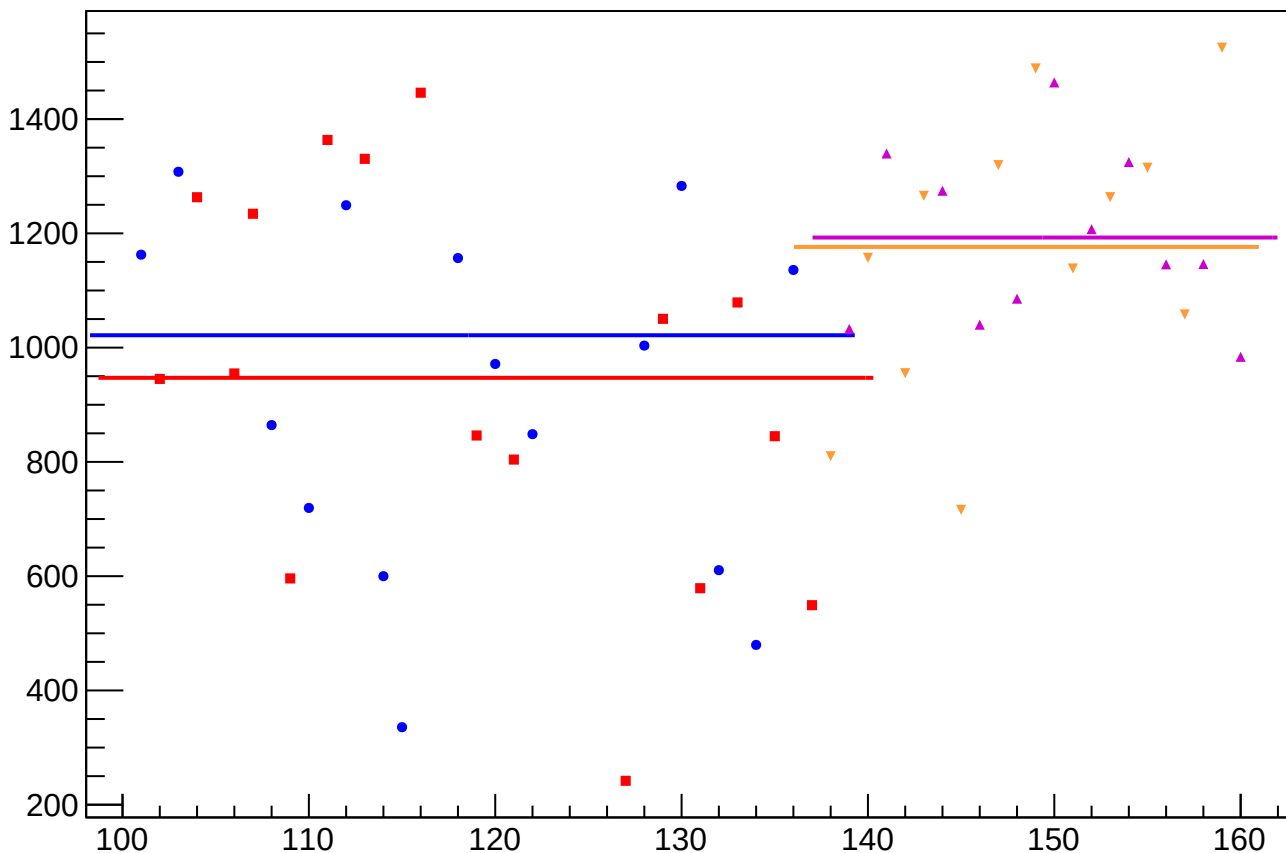
Left In: 6.228+/-0.000  $\chi^2/\text{NDF}$ : 2331911751655733809355489024147456.0/10

+ sign 6.582+/-0.000  $\chi^2/\text{NDF}$ : 18622625397186852

All: 6.579+/-0.000  $\chi^2/\text{NDF}$ : 32513446836345

- sign 6.575+/-0.000  $\chi^2/\text{NDF}$ : 13890781213861884

dit\_4aX\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

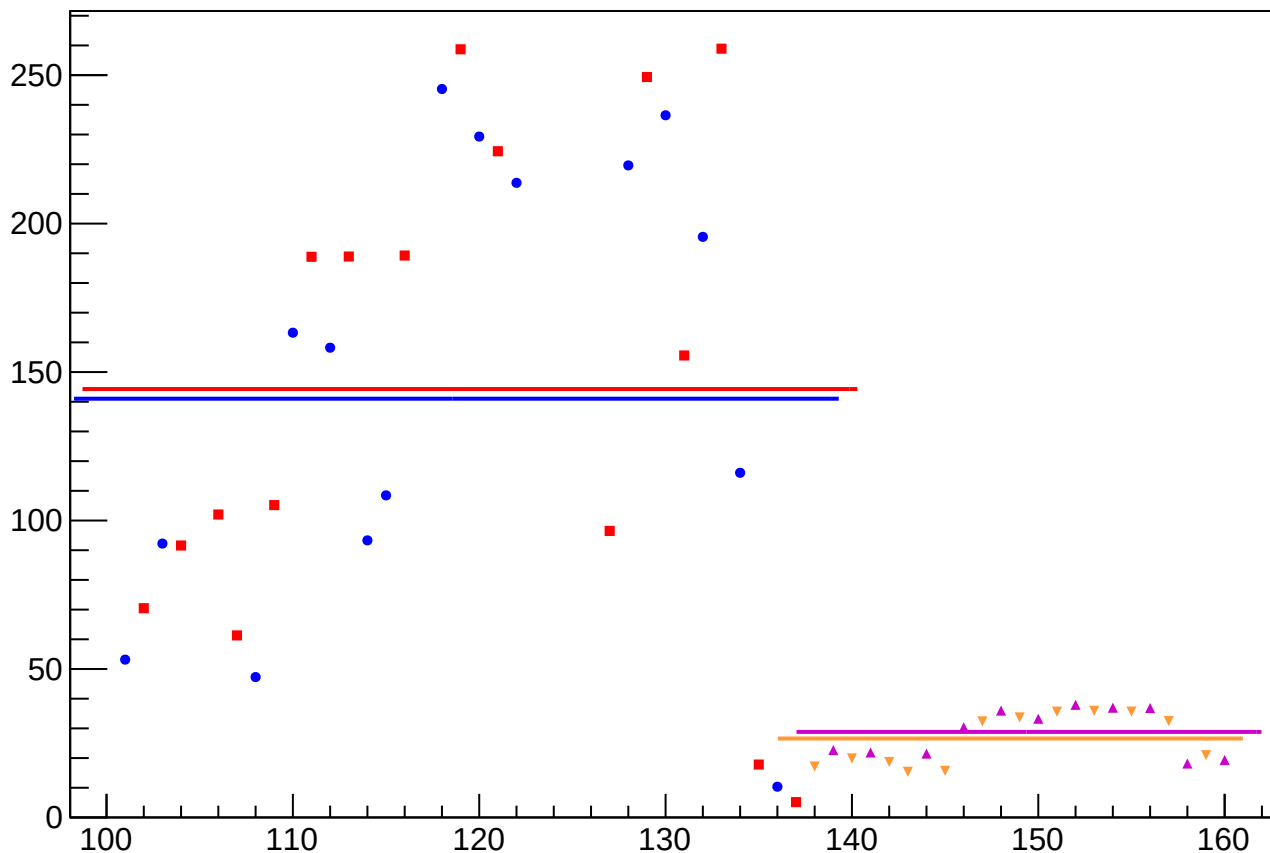
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

# dit\_4eX\_coil7\_mean vs Slug



Right In: 141.032+/-0.000  $\chi^2/\text{NDF}$ : 4507992585512923332587415612245934080.0/14

Left Out: 26.582+/-0.000  $\chi^2/\text{NDF}$ : 63880546932393658050614652141830144.0/11

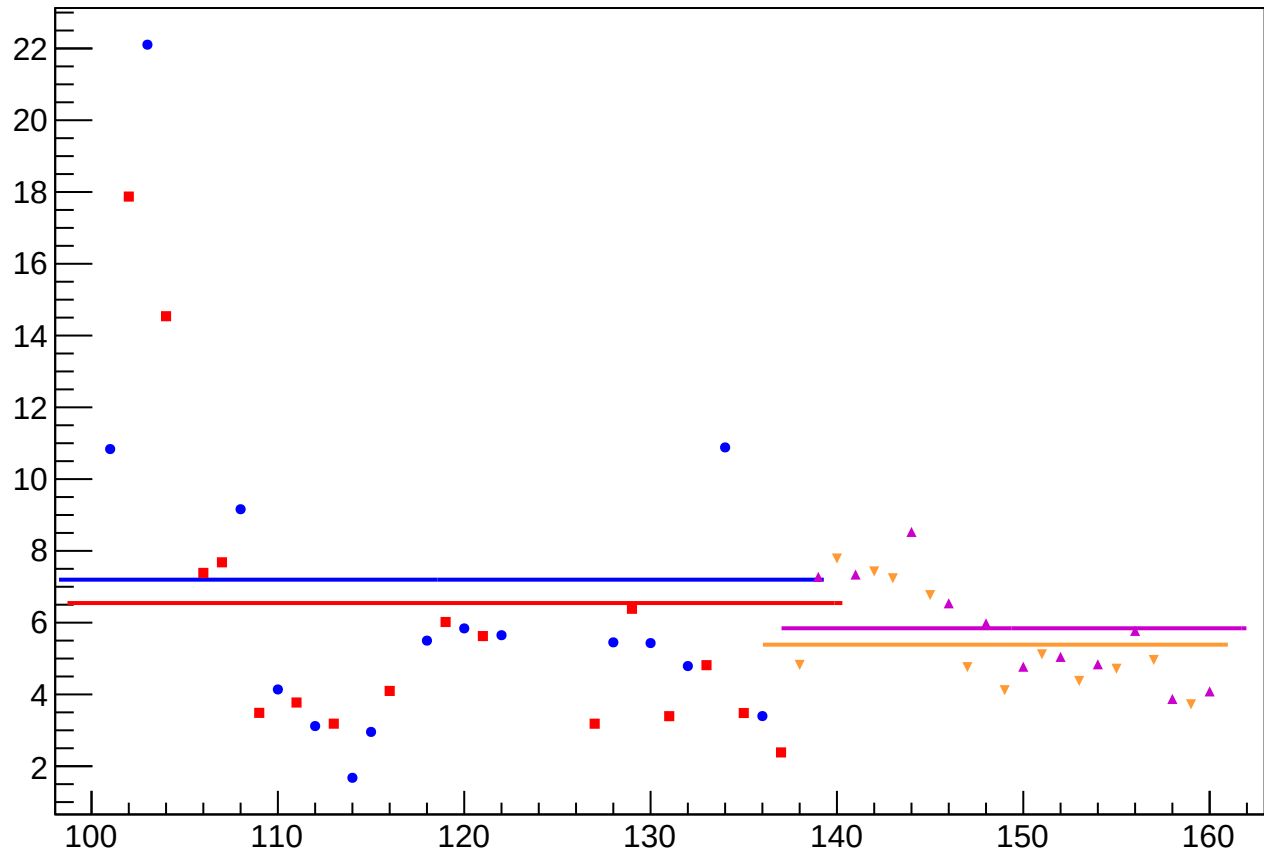
Right Out: 144.283+/-0.000  $\chi^2/\text{NDF}$ : 4268333571517740886065361663928827904.0/15

Left In: 28.817+/-0.000  $\chi^2/\text{NDF}$ : 52309797532132393990553277307027456.0/10

All: 75.631+/-0.000  $\chi^2/\text{NDF}$ : 1904327225315

- sign 77.224+/-0.000  $\chi^2/\text{NDF}$ : 9485278065945565

dit\_4eX\_coil7\_err\_mean vs Slug



Right In: 7.198+/-0.000  $\chi^2/\text{NDF}$ : 18212640728502785337831966963138560.0/14

Left Out: 5.387+/-0.000  $\chi^2/\text{NDF}$ : 1602138249882478814835943843823616.0/11

Right Out: 6.547+/-0.000  $\chi^2/\text{NDF}$ : 14078912505116068936230809834094592.0/15

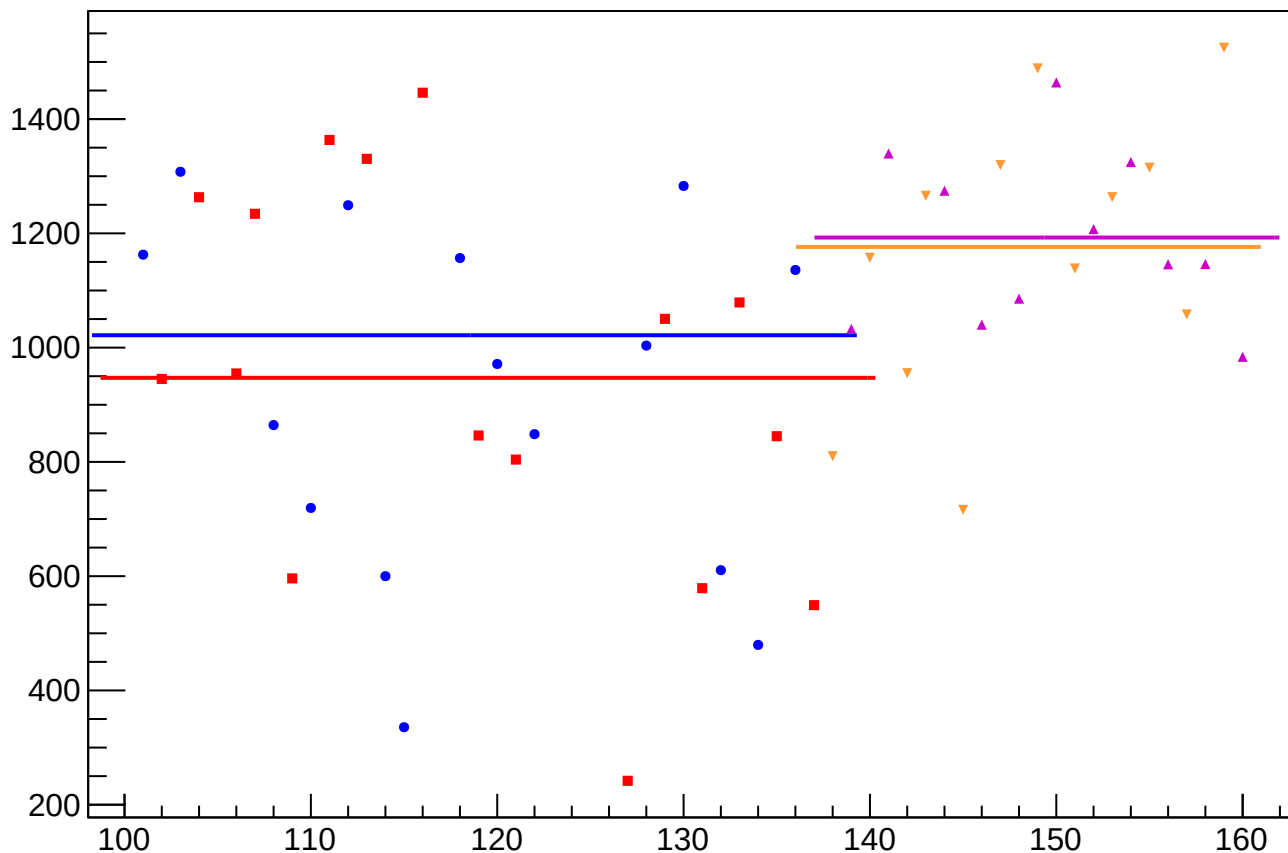
Left In: 5.843+/-0.000  $\chi^2/\text{NDF}$ : 1832786837102707862400537806766080.0/10

+ sign 6.137+/-0.000  $\chi^2/\text{NDF}$ : 21061601149894292

All: 6.138+/-0.000  $\chi^2/\text{NDF}$ : 37164899106556

- sign 6.138+/-0.000  $\chi^2/\text{NDF}$ : 16103297183746368

dit\_4eX\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

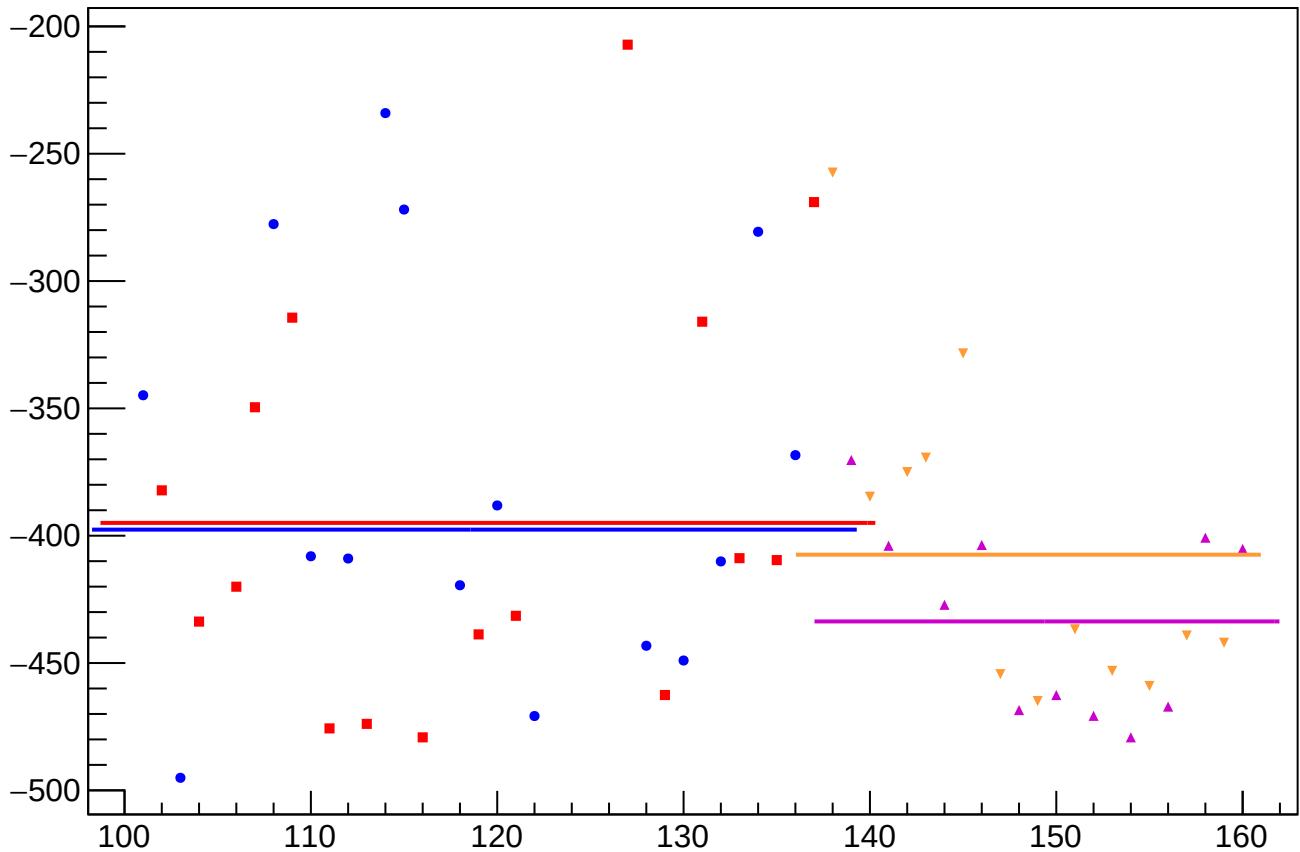
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

dit\_11X12X\_coil7\_mean vs Slug



Right In: -397.613+/-0.000  $\chi^2/\text{NDF}$ : 2661280785384633207096106229474263040.0/14

Left Out: -407.457+/-0.000  $\chi^2/\text{NDF}$ : 3530254490804072685015705910637494272.0/11

Right Out: -394.973+/-0.000  $\chi^2/\text{NDF}$ : 3685595513427183501596165280874102784.0/15

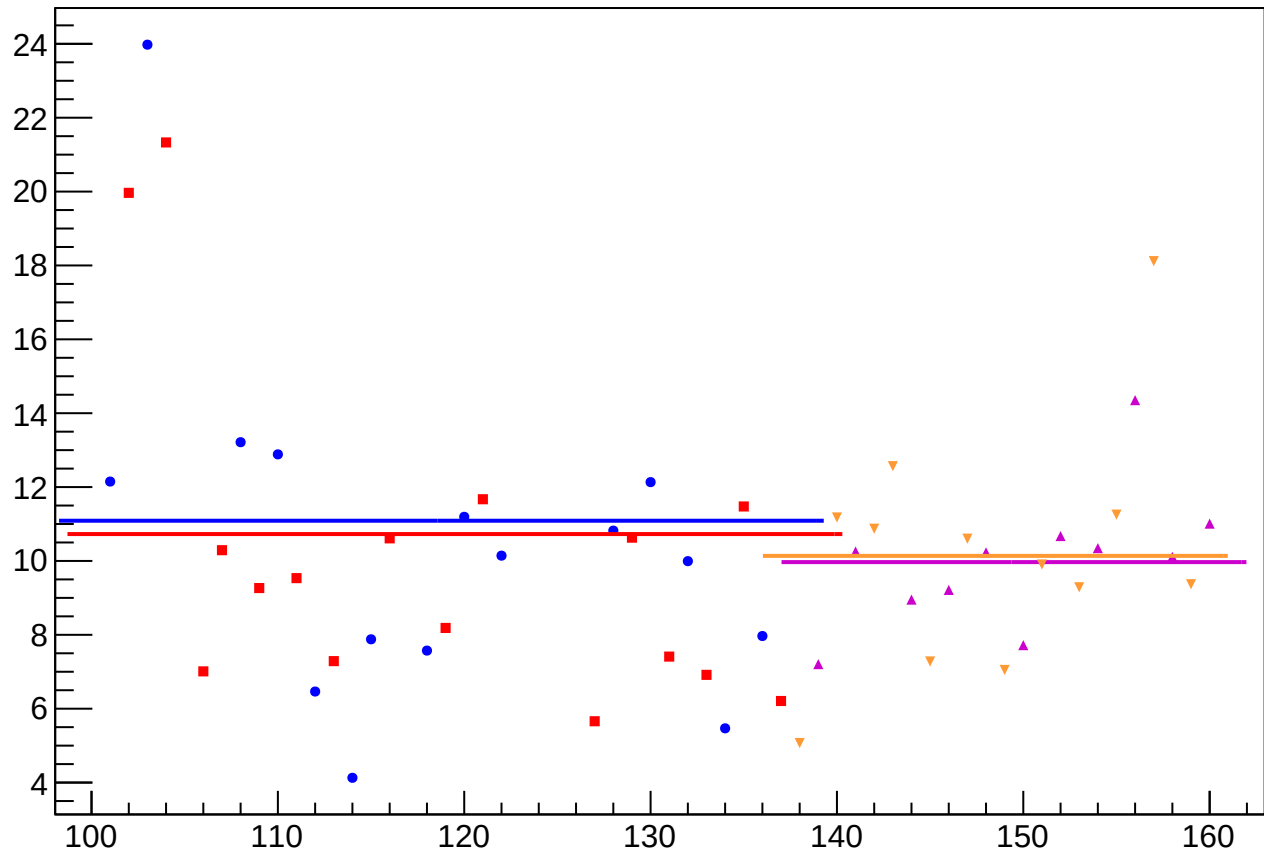
Left In: -433.664+/-0.000  $\chi^2/\text{NDF}$ : 1198237421385461104687495484599697408.0/10

+ sign -403.377+/-0.000  $\chi^2/\text{NDF}$ : 62283585707933

All: -410.466+/-0.000  $\chi^2/\text{NDF}$ : 11848262293

- sign -417.444+/-0.000  $\chi^2/\text{NDF}$ : 54637466246081

dit\_11X12X\_coil7\_err\_mean vs Slug



Right In: 11.089 $\pm$ 0.000  $\chi^2$ /NDF: 14235991122014984478163351266918400.0/14

+ sign 10.532 $\pm$ 0.000  $\chi^2$ /NDF: 2381392640071486

Left Out: 10.137 $\pm$ 0.000  $\chi^2$ /NDF: 9233961900502442042562315288576000.0/11

All: 10.408 $\pm$ 0.000  $\chi^2$ /NDF: 4175745912781

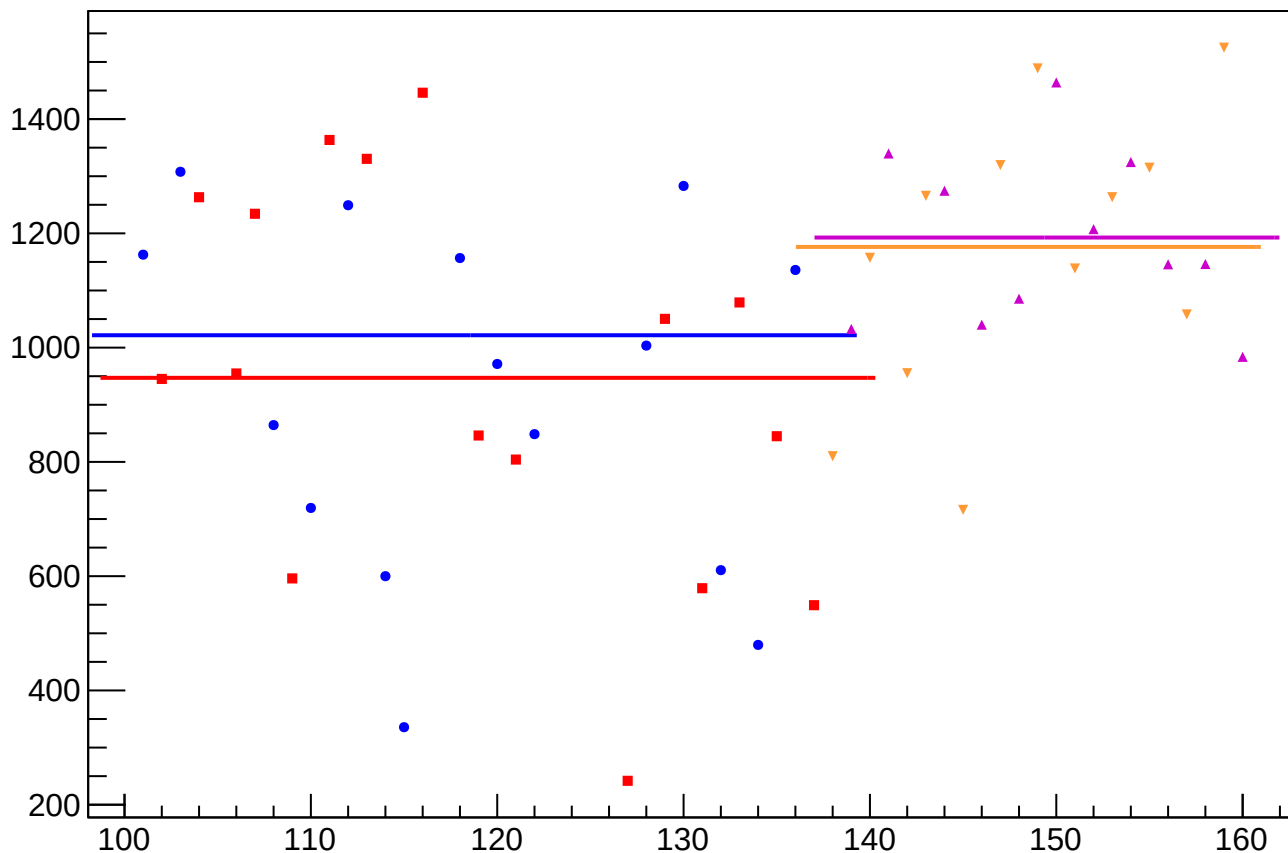
Right Out: 10.728 $\pm$ 0.000  $\chi^2$ /NDF: 14767238290725260908081124437131264.0/15

- sign 10.287 $\pm$ 0.000  $\chi^2$ /NDF: 1789615499240610

Left In: 9.968 $\pm$ 0.000  $\chi^2$ /NDF: 2905664542402179840795878184976384.0/10



dit\_11X12X\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

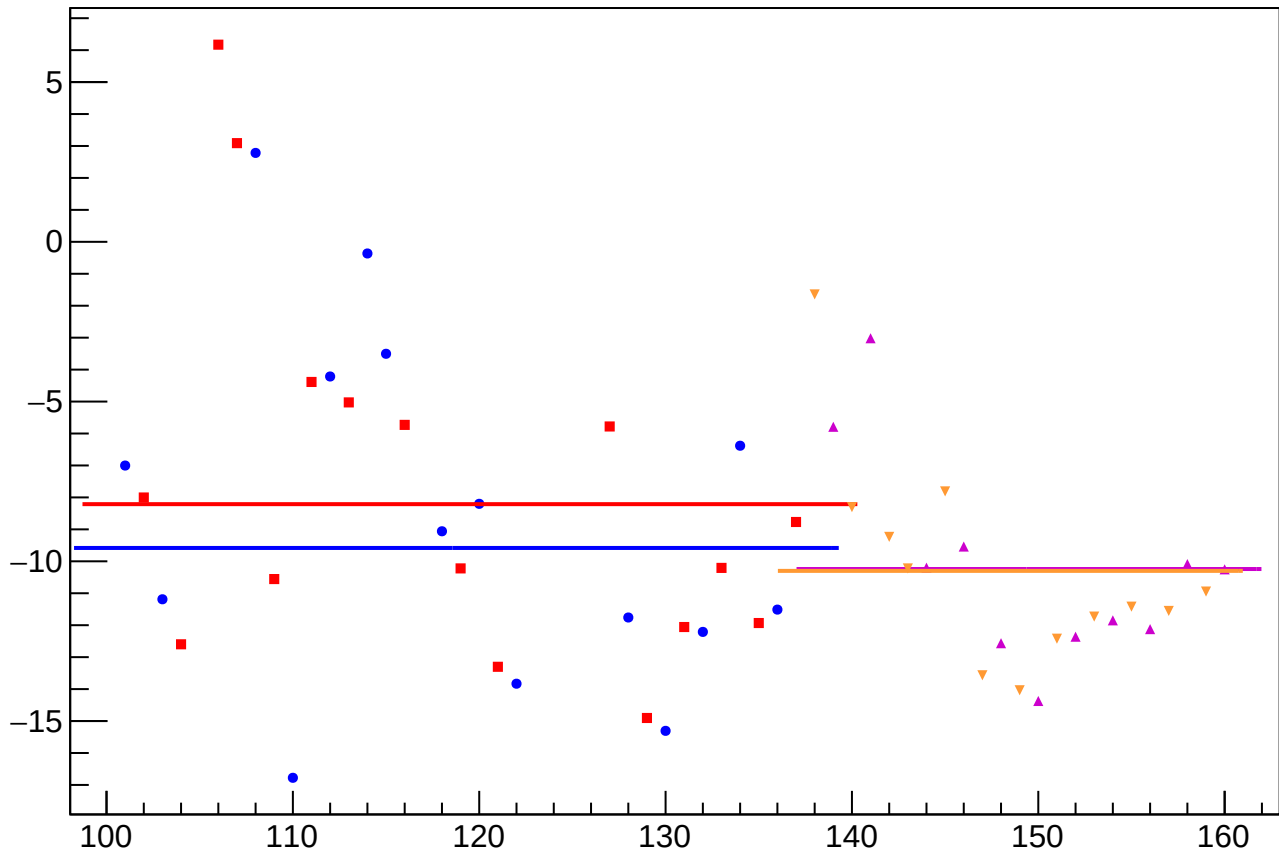
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

# dit\_4aY\_coil7\_mean vs Slug



Right In:  $-9.582 \pm 0.000$   $\chi^2/\text{NDF}$ : 14702679983940002820806471963377664.0/14

Left Out:  $-10.300 \pm 0.000$   $\chi^2/\text{NDF}$ : 9506877601099056155644993577418752.0/11

Right Out:  $-8.211 \pm 0.000$   $\chi^2/\text{NDF}$ : 18304237293835961465605754204454912.0/15

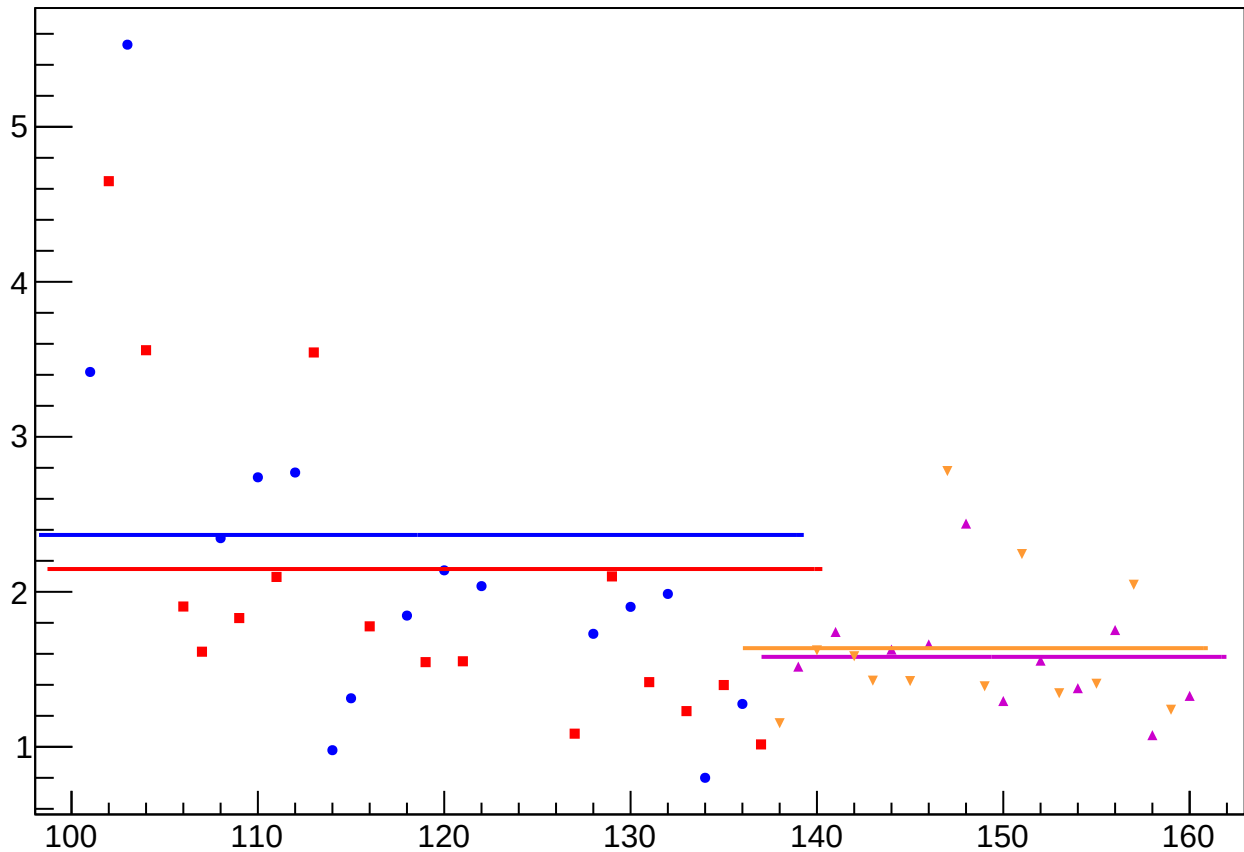
Left In:  $-10.241 \pm 0.000$   $\chi^2/\text{NDF}$ : 8992829088408430483485977772818432.0/10

+ sign  $-10.002 \pm 0.000$   $\chi^2/\text{NDF}$ : 244052394679521

All:  $-9.694 \pm 0.000$   $\chi^2/\text{NDF}$ : 5359465497028

- sign  $-9.390 \pm 0.000$   $\chi^2/\text{NDF}$ : 28893819596025267

dit\_4aY\_coil7\_err\_mean vs Slug



Right In: 2.367 $\pm$ 0.000  $\chi^2$ /NDF: 920633294546152876922066767446016.0/14

Left Out: 1.637 $\pm$ 0.000  $\chi^2$ /NDF: 197584846951597051944769289191424.0/11

Right Out: 2.147 $\pm$ 0.000  $\chi^2$ /NDF: 764171992480224478656127555338240.0/15

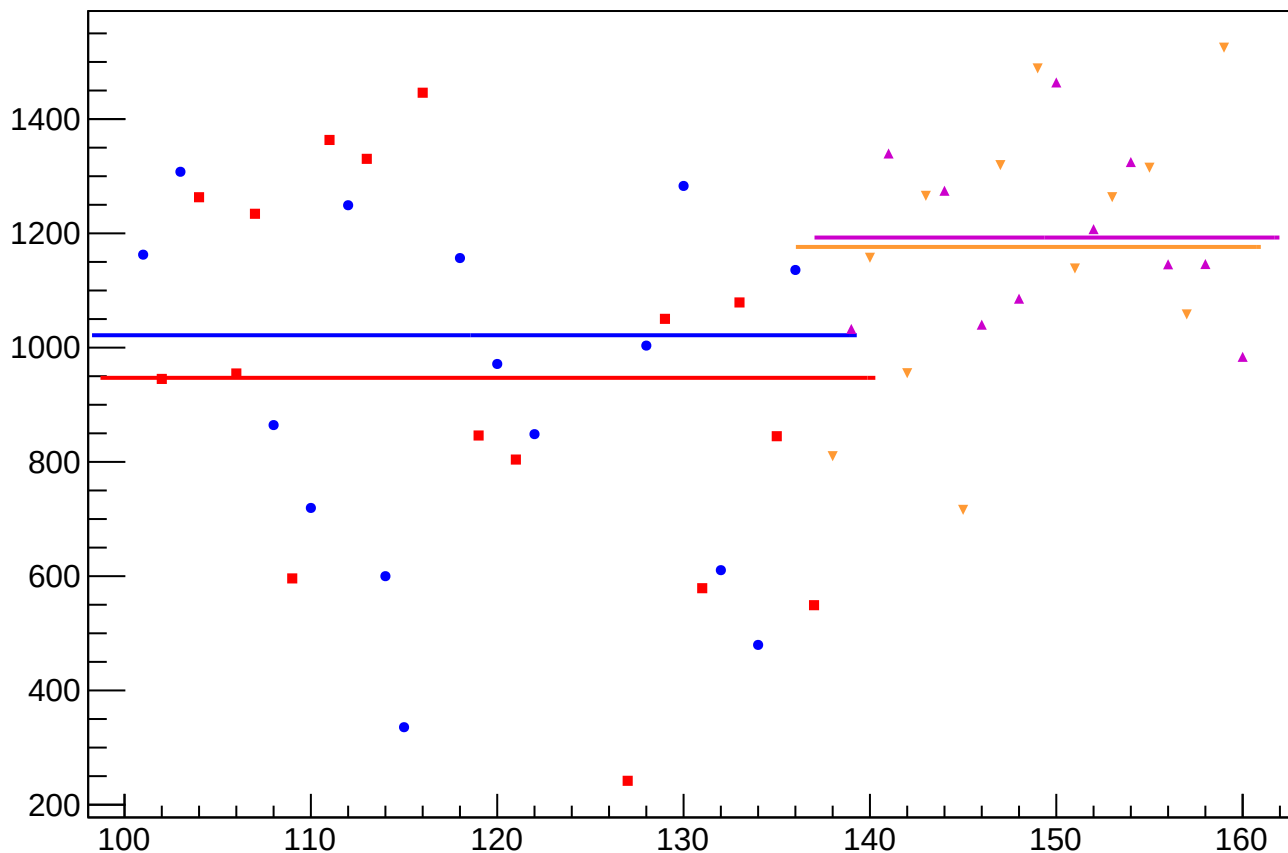
Left In: 1.580 $\pm$ 0.000  $\chi^2$ /NDF: 104159820106689813353171792166912.0/10

+ sign 1.939 $\pm$ 0.000  $\chi^2$ /NDF: 13209687633511576

All: 1.878 $\pm$ 0.000  $\chi^2$ /NDF: 23253033241293

- sign 1.818 $\pm$ 0.000  $\chi^2$ /NDF: 99272780450860702

dit\_4aY\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684 $\pm$ 0.000  $\chi^2$ /NDF: 40493101470870278397836276403592495104.0/14

Left Out: 1176.242 $\pm$ 0.000  $\chi^2$ /NDF: 53355525796592022882385023198883217408.0/11

Right Out: 947.145 $\pm$ 0.000  $\chi^2$ /NDF: 67784656011936521511169668028018196480.0/15

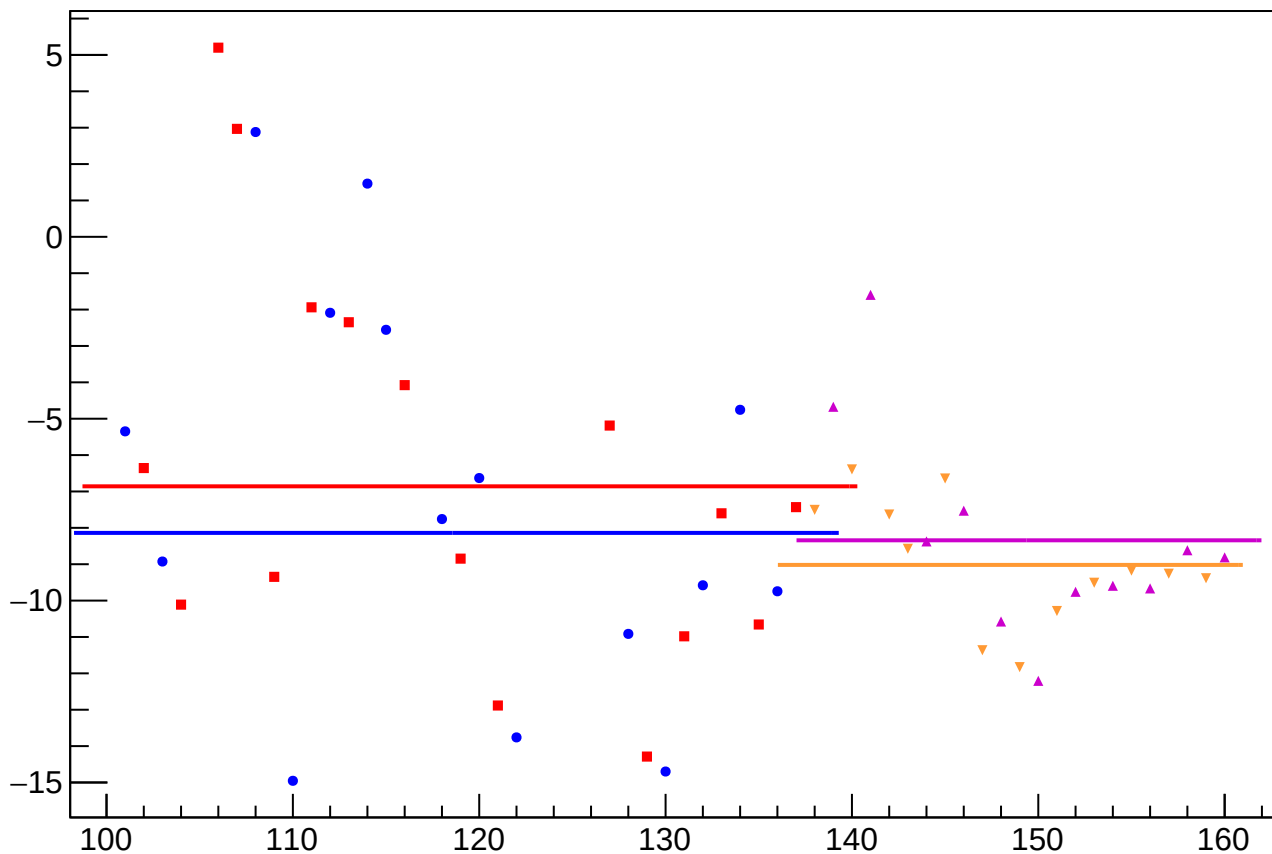
Left In: 1192.687 $\pm$ 0.000  $\chi^2$ /NDF: 19255287383728205662654022867381911552.0/10

+ sign 1112.188 $\pm$ 0.000  $\chi^2$ /NDF: 10292693819422

All: 1100.879 $\pm$ 0.000  $\chi^2$ /NDF: 21371922767

- sign 1089.748 $\pm$ 0.000  $\chi^2$ /NDF: 11039486982366

# dit\_4eY\_coil7\_mean vs Slug



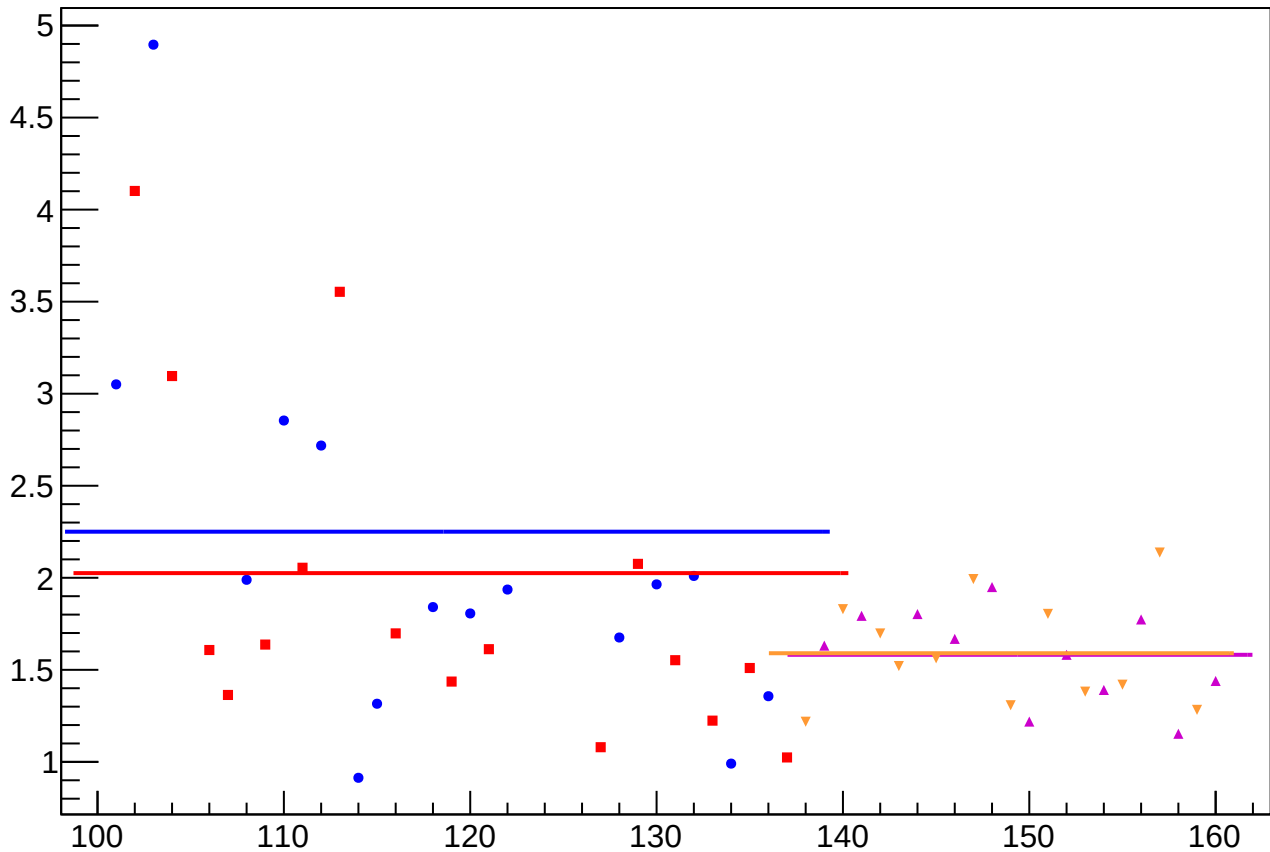
Right In:  $-8.139 \pm 0.000$   $\chi^2/\text{NDF}: 14676442649222120372533779893321728.0/14$

Left Out:  $-9.019 \pm 0.000$   $\chi^2/\text{NDF}: 2556393635520144823493802684579840.0/11$

Right Out:  $-6.859 \pm 0.000$   $\chi^2/\text{NDF}: 16483631561591790731352632153079808.0/15$

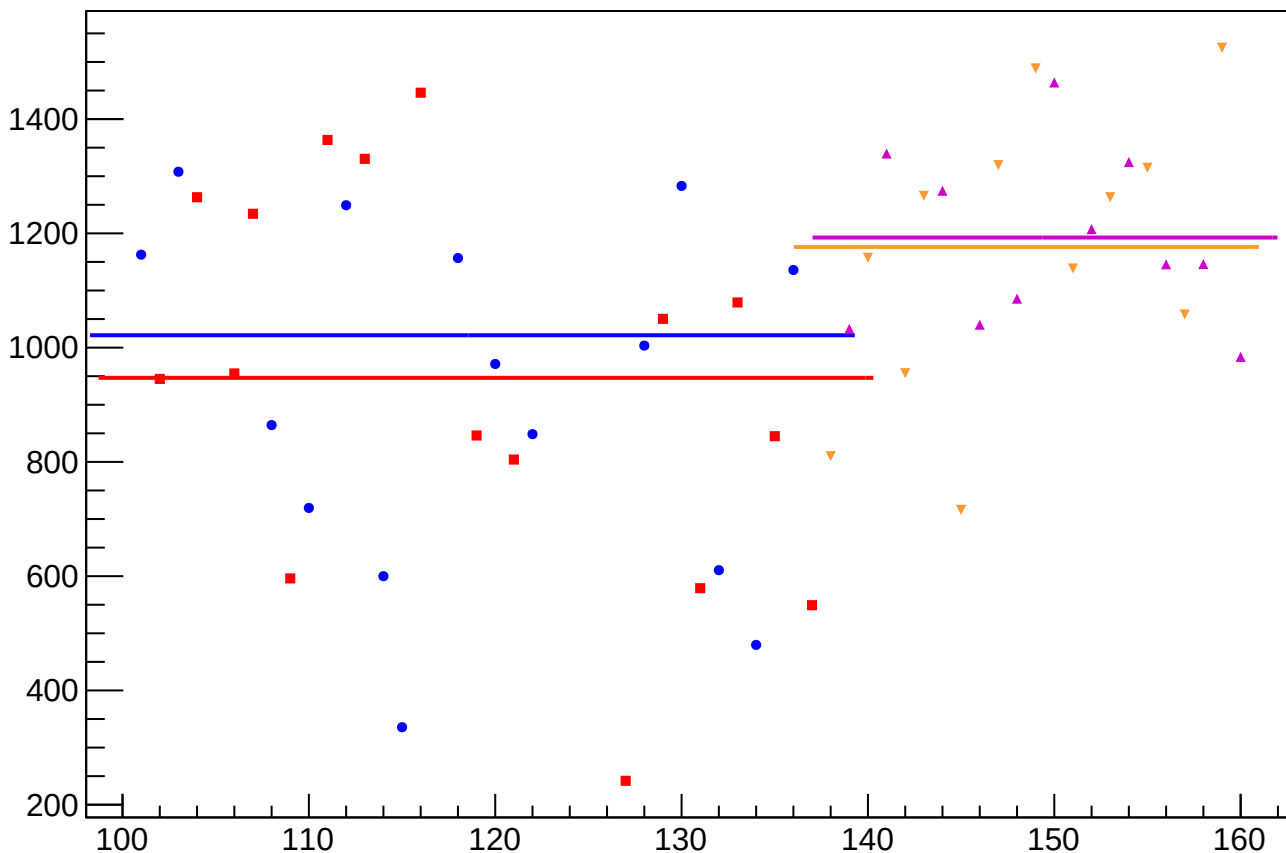
Left In:  $-8.343 \pm 0.000$   $\chi^2/\text{NDF}: 7268690948063694771204756789526528.0/10$

dit\_4eY\_coil7\_err\_mean vs Slug



Right In:  $2.250 \pm 0.000$   $\chi^2/\text{NDF}$ : 656774588136274816295442701090816.0/14  
 Left Out:  $1.590 \pm 0.000$   $\chi^2/\text{NDF}$ : 76554351114693669605218090745856.0/11  
 Right Out:  $2.025 \pm 0.000$   $\chi^2/\text{NDF}$ : 578717441762956454616505599918080.0/15  
 Left In:  $1.582 \pm 0.000$   $\chi^2/\text{NDF}$ : 54930988145763434904897999339520.0/10  
 All:  $1.815 \pm 0.000$   $\chi^2/\text{NDF}$ : 16162226214289.0/15  
 + sign  $1.864 \pm 0.000$   $\chi^2/\text{NDF}$ : 89900407422564290.0/15  
 - sign  $1.768 \pm 0.000$   $\chi^2/\text{NDF}$ : 70992647799477177.0/15

dit\_4eY\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

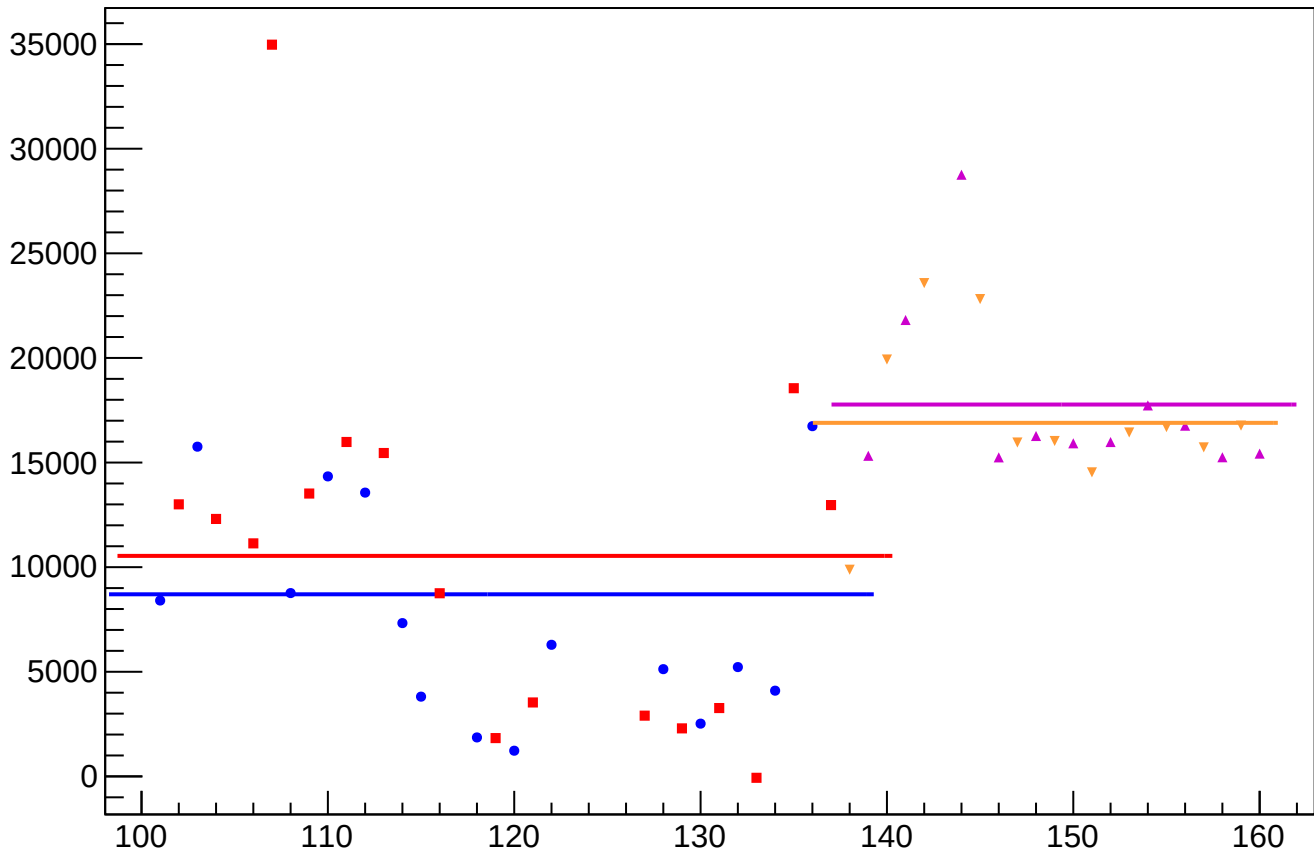
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

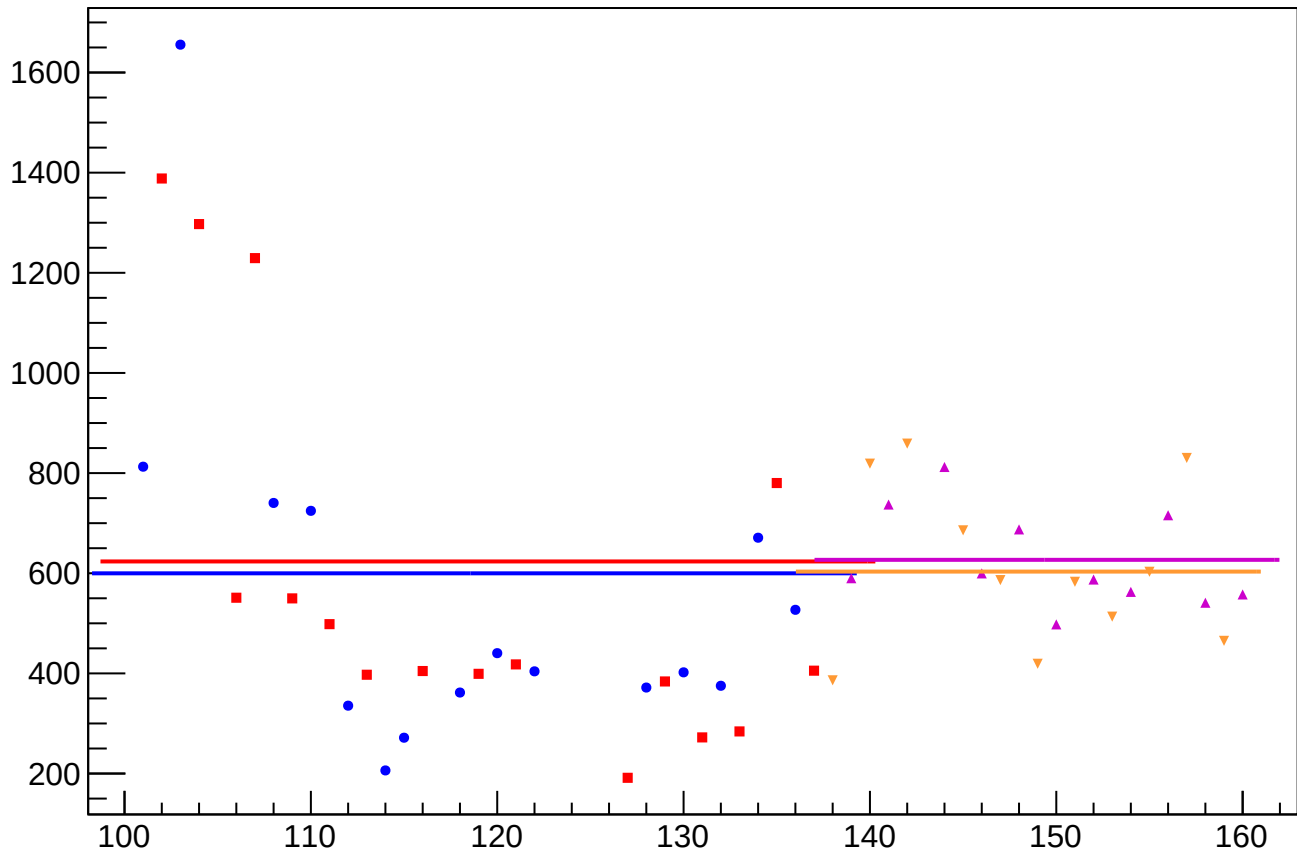
dit\_usl\_coil7\_mean vs Slug



Right In: 8703.332+/-0.000  $\chi^2/\text{NDF}$ : 19501133067308426859536304500819191922688.0/14  
 Left Out: 16897.725+/-0.000  $\chi^2/\text{NDF}$ : 10176252623828635713405692864230091390976.0/10  
 Right Out: 10539.327+/-0.000  $\chi^2/\text{NDF}$ : 46226684227836109273394062569753758662656.0/15  
 Left In: 17773.103+/-0.000  $\chi^2/\text{NDF}$ : 14926066991142889452676587552618632445952.0/10



dit\_usl\_coil7\_err\_mean vs Slug



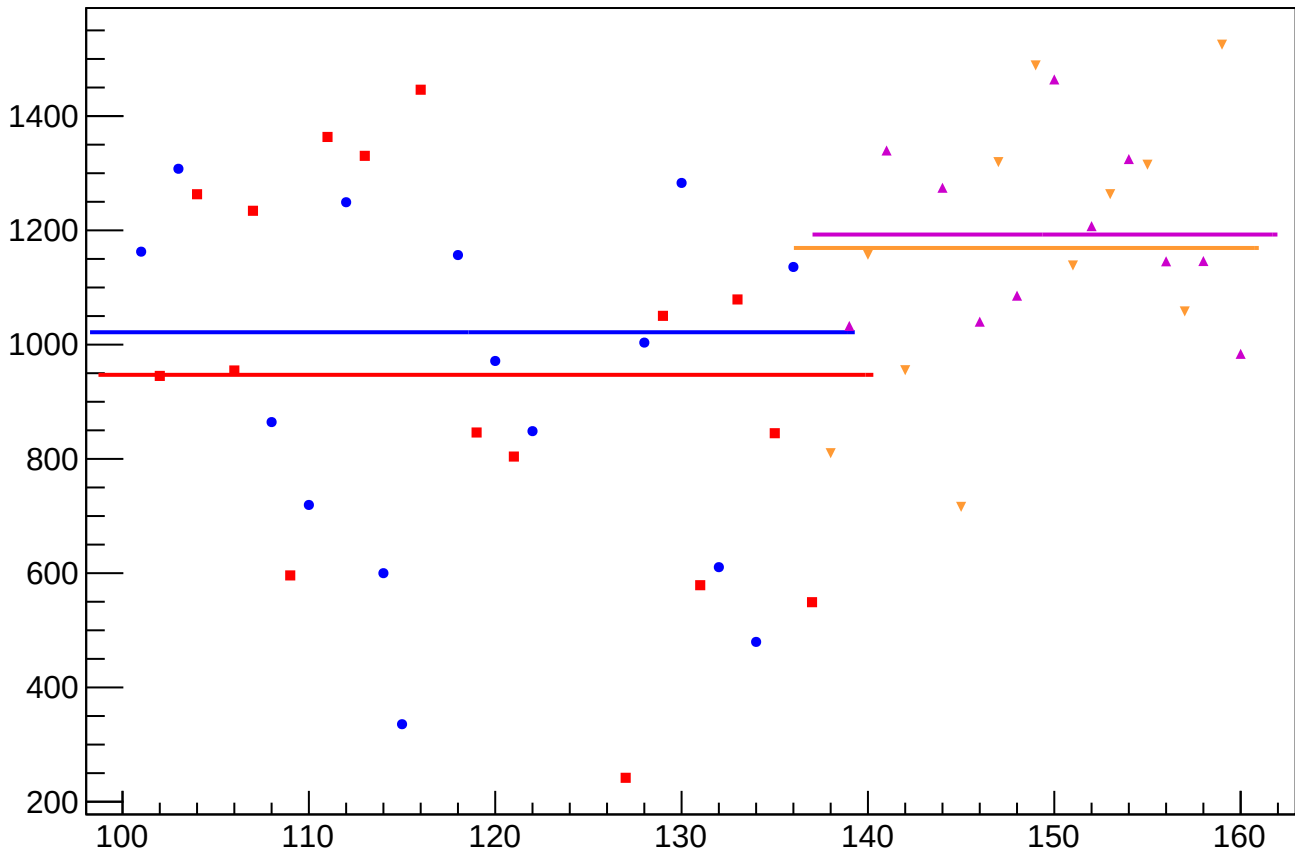
Right In: 599.849+/-0.000  $\chi^2/\text{NDF}$ : 89258961100373244309337208715638472704.0/14

Left Out: 603.317+/-0.000  $\chi^2/\text{NDF}$ : 20231084325408050976710009900855459840.0/10

Right Out: 623.569+/-0.000  $\chi^2/\text{NDF}$ : 101448845479297603044152618126879490048.0/15

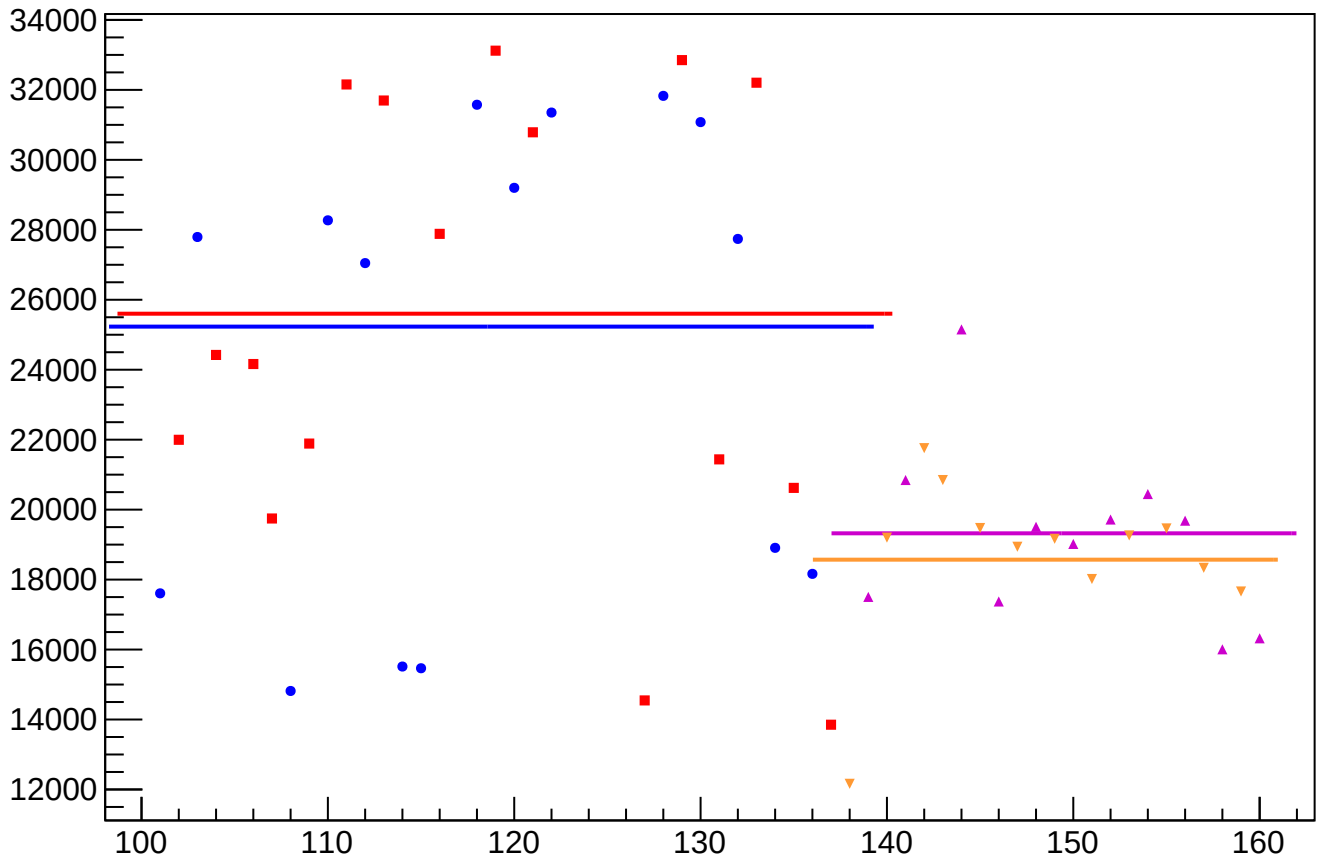
Left In: 626.785+/-0.000  $\chi^2/\text{NDF}$ : 8170989429665370050254275774703992832.0/10

dit\_usl\_coil7\_Ndata\_mean vs Slug



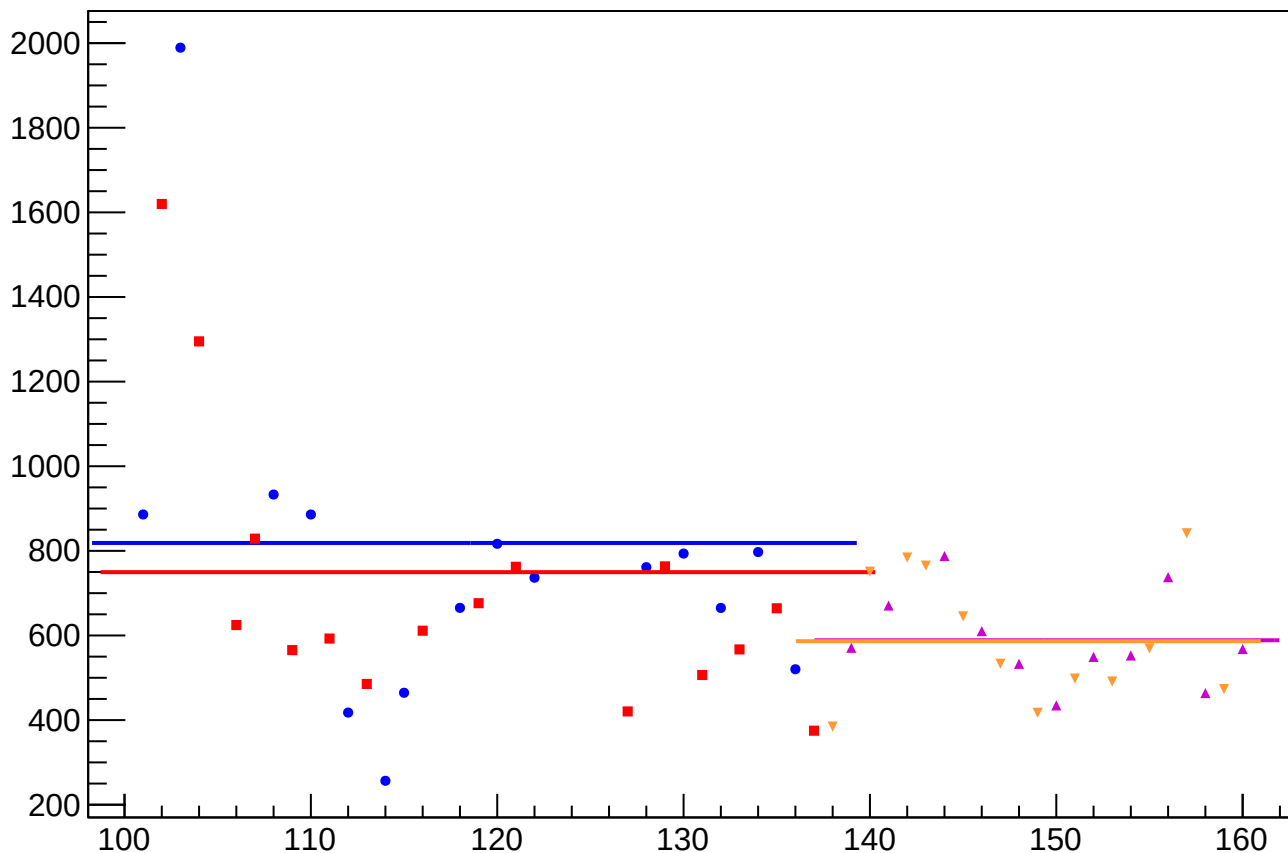
Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14  
 Left Out: 1169.193+/-0.000  $\chi^2/\text{NDF}$ : 52777446675178529289654408188899885056.0/10  
 Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

dit\_usr\_coil7\_mean vs Slug



Right In: 25232.229+/-0.000  $\chi^2/\text{NDF}$ : 24534581974772031016304633863538632294400.0/14  
 Left Out: 18569.658+/-0.000  $\chi^2/\text{NDF}$ : 4355453929949745896740569008121325813760.0/11  
 Right Out: 25601.388+/-0.000  $\chi^2/\text{NDF}$ : 24359757587964510827650819847270483099648.0/15  
 Left In: 19322.974+/-0.000  $\chi^2/\text{NDF}$ : 5509841990831420617123513924011035721728.0/10

dit\_usr\_coil7\_err\_mean vs Slug



Right In: 818.668+/-0.000  $\chi^2/\text{NDF}$ : 105606527096911974489496802318373355520.0/14

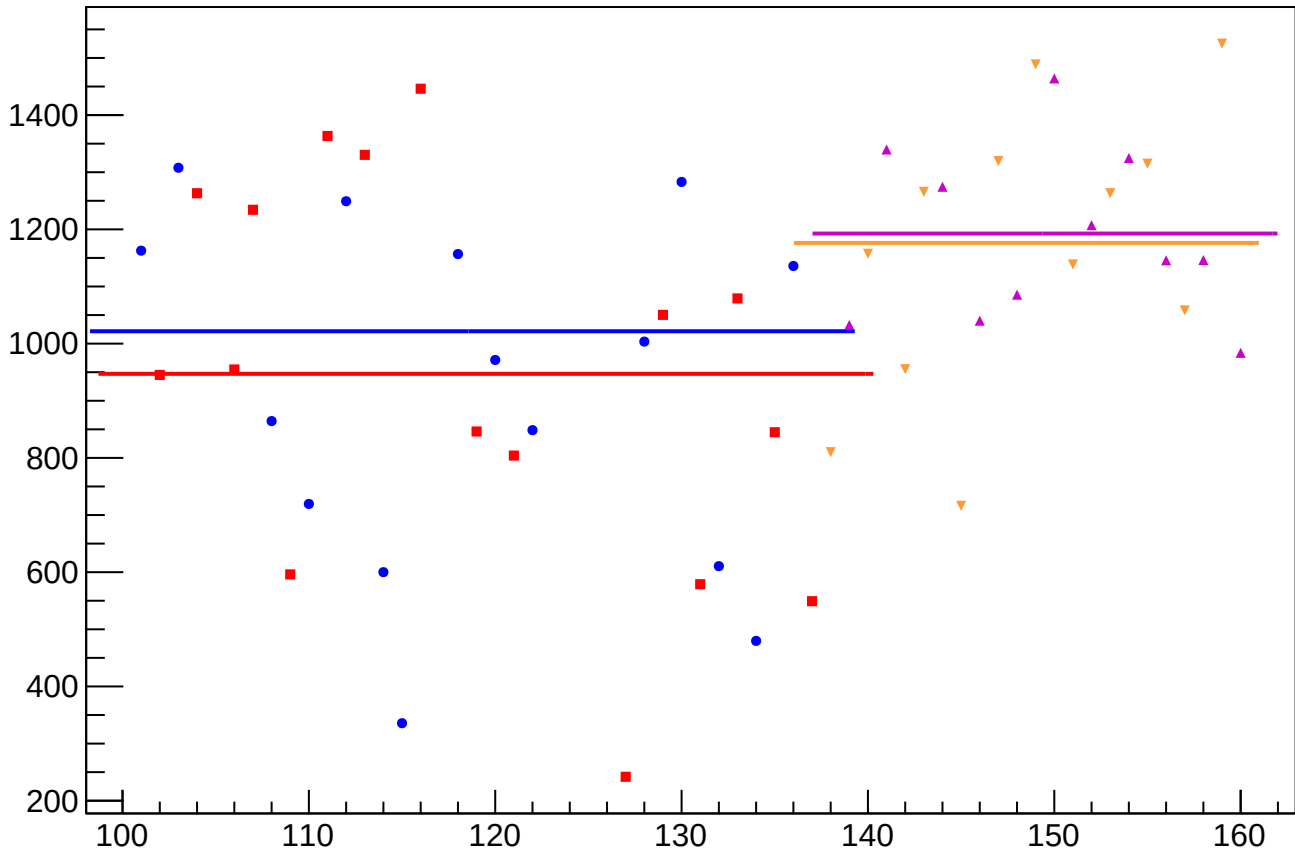
Left Out: 586.466+/-0.000  $\chi^2/\text{NDF}$ : 19798968336765265919175174287150546944.0/11

Right Out: 749.661+/-0.000  $\chi^2/\text{NDF}$ : 77972691834605708706145461250669150208.0/15

Left In: 588.693+/-0.000  $\chi^2/\text{NDF}$ : 9904386894828699094725074481582178304.0/10

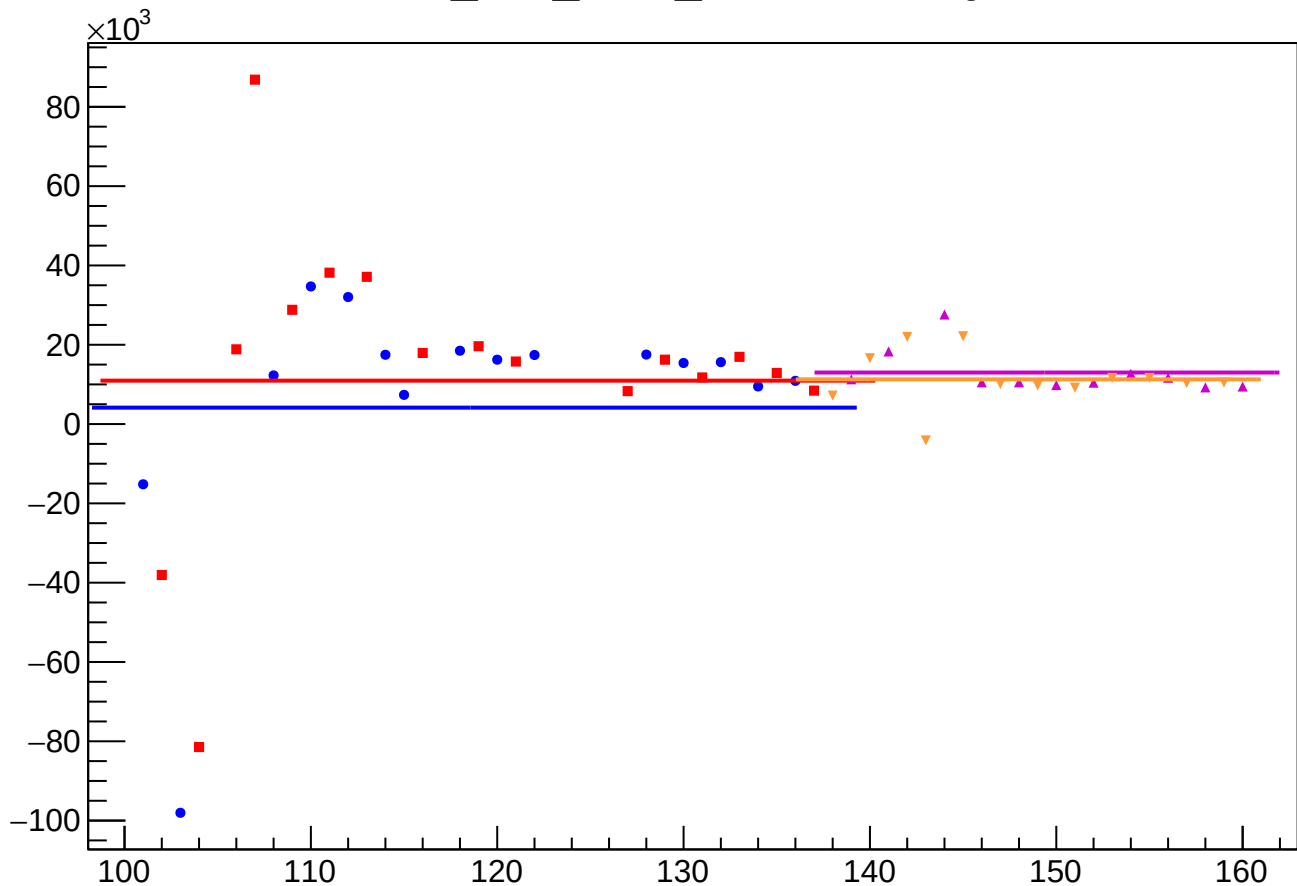
All: 669.332+/-0.000  $\chi^2/\text{NDF}$ : 24436536048

dit\_usr\_coil7\_Ndata\_mean vs Slug



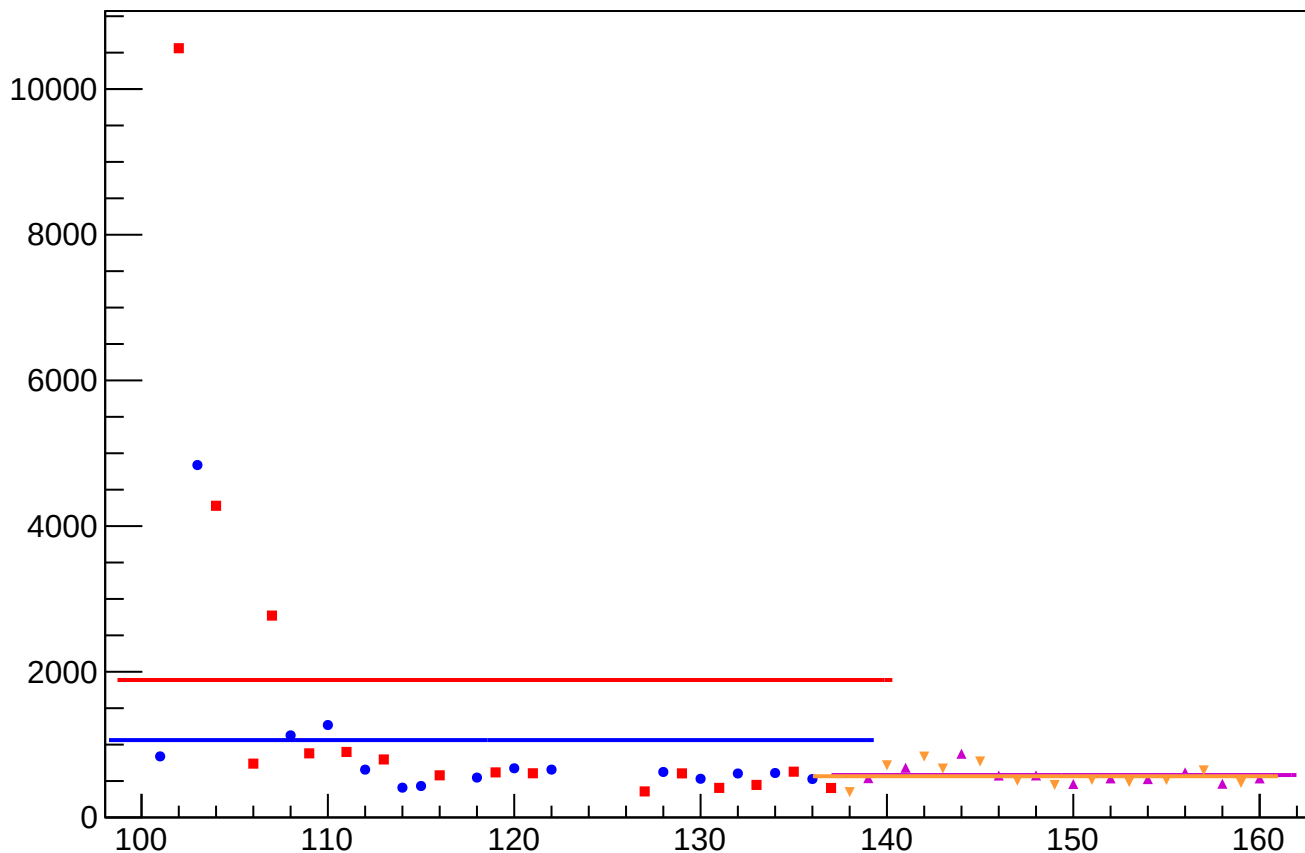
Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

# dit\_atl1\_coil7\_mean vs Slug



Right In: 4145.268+/-0.000  $\chi^2/\text{NDF}$ : 763693998395064689637972381933507648159744.0/14  
 Left Out: 11270.779+/-0.000  $\chi^2/\text{NDF}$ : 35137043527033139065388759182682848493568.0/11  
 Right Out: 10948.073+/-0.000  $\chi^2/\text{NDF}$ : 873949668510327201514601463115396191092736.0/15  
 Left In: 12994.239+/-0.000  $\chi^2/\text{NDF}$ : 26399397473209063315648711040224276250624.0/10

dit\_atl1\_coil7\_err\_mean vs Slug



Right In: 1062.141+/-0.000  $\chi^2/\text{NDF}$ : 952806231926530012715872184655778152448.0/14

Left Out: 565.876+/-0.000  $\chi^2/\text{NDF}$ : 16647379125618292913647848878579384320.0/11

Right Out: 1887.077+/-0.000  $\chi^2/\text{NDF}$ : 5525872718363845620366029387569058283520.0/15

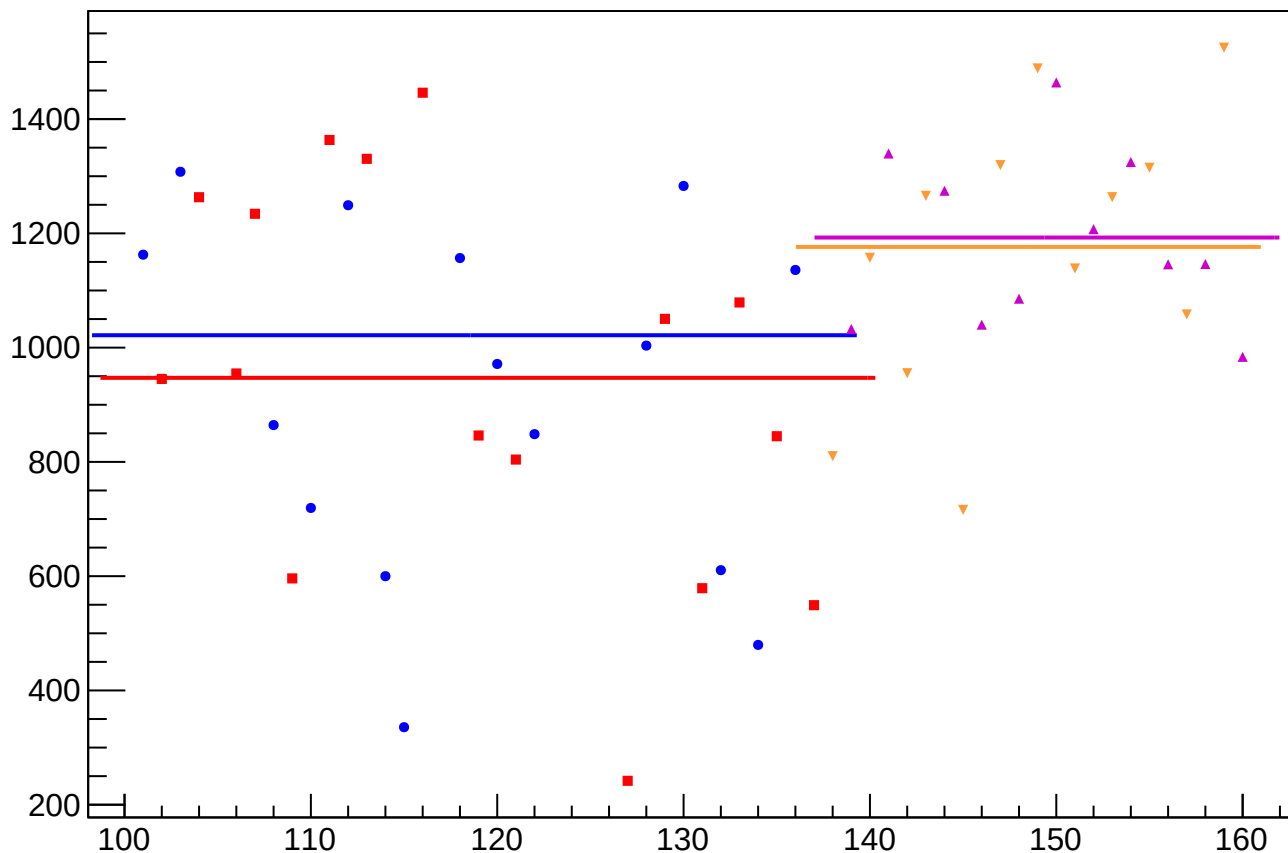
Left In: 582.413+/-0.000  $\chi^2/\text{NDF}$ : 11860144462538181813814678965729624064.0/10

+ sign 771.544+/-0.000  $\chi^2/\text{NDF}$ : 106304781671472

All: 951.874+/-0.000  $\chi^2/\text{NDF}$ : 73611942095

- sign 1129.371+/-0.000  $\chi^2/\text{NDF}$ : 61970965674299

dit\_atl1\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

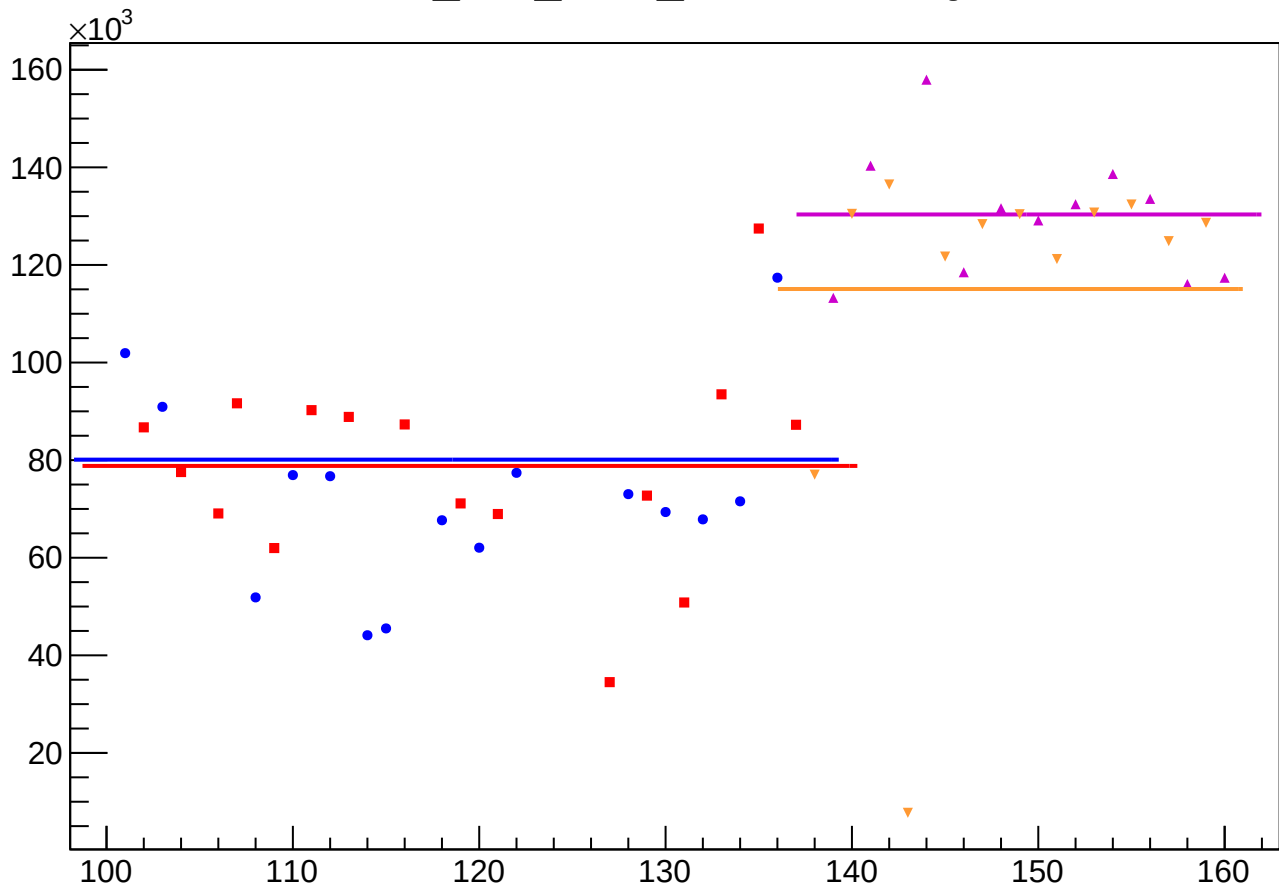
+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

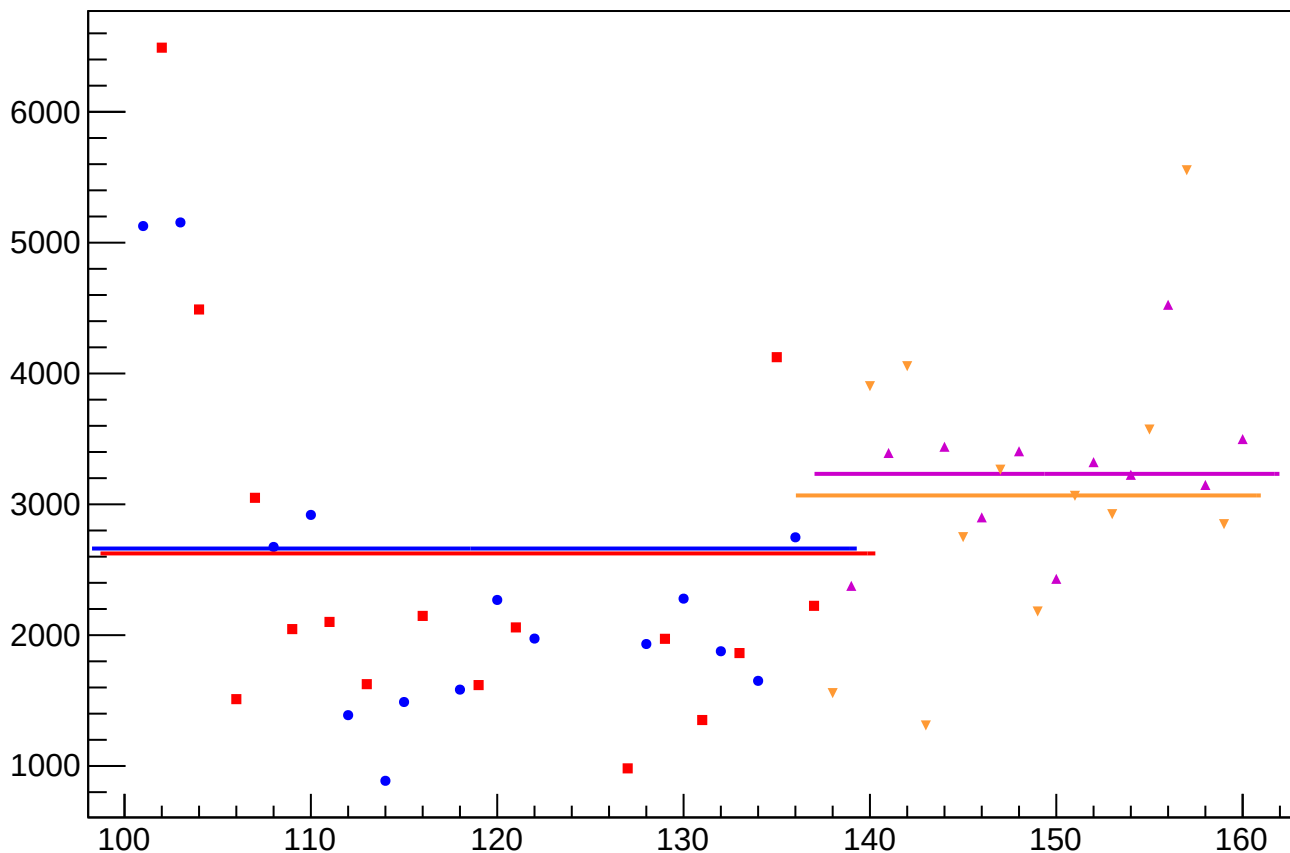


dit\_atl2\_coil7\_mean vs Slug



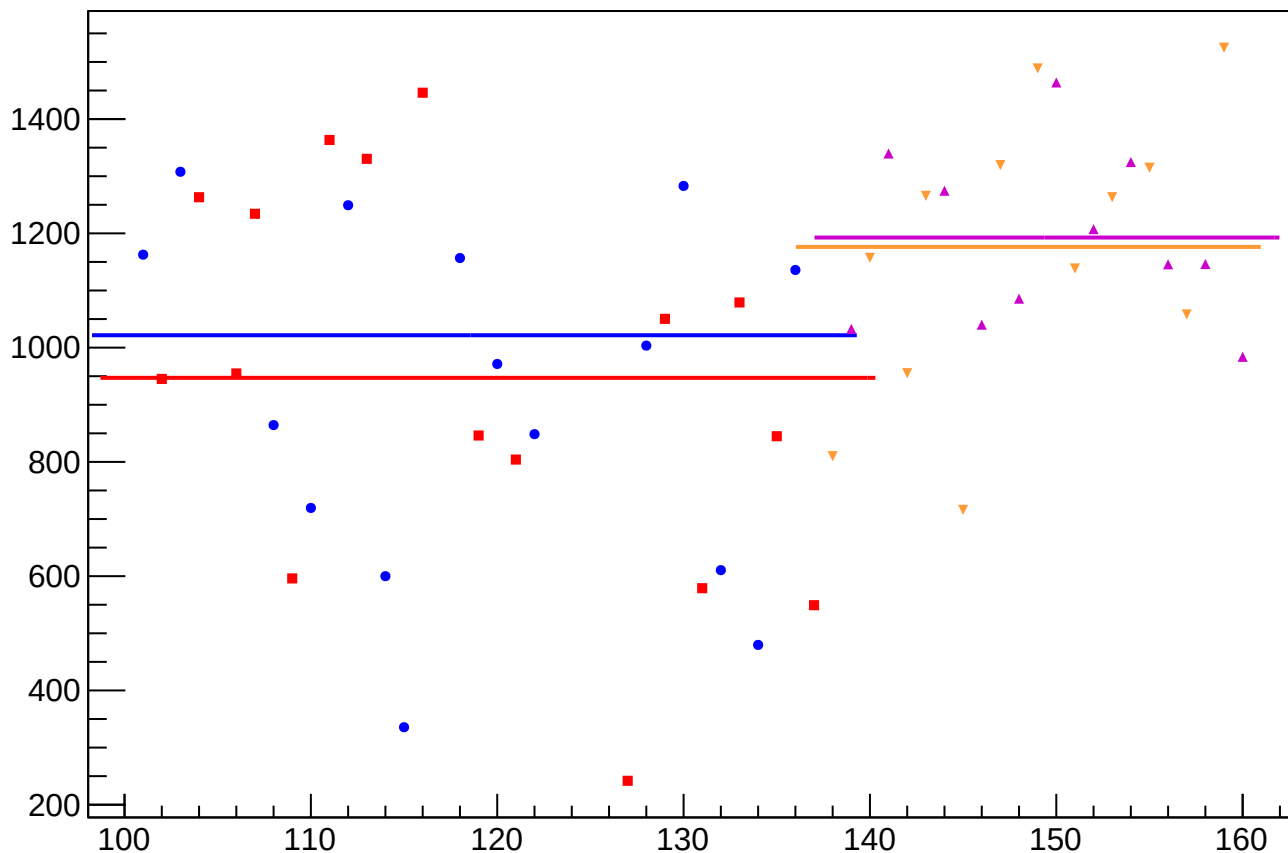
Right In: 80102.504 $\pm$ 0.000  $\chi^2$ /NDF: 254521784097258654723607522631742465769472.0/14  
 Left Out: 115071.197 $\pm$ 0.000  $\chi^2$ /NDF: 1032500680832033878927899547290304830767104.0/11  
 Right Out: 78815.832 $\pm$ 0.000  $\chi^2$ /NDF: 286076919217811099434470442231998185472000.0/15  
 Left In: 130346.244 $\pm$ 0.000  $\chi^2$ /NDF: 148174871015439819820100459279999278514176.0/10

dit\_atl2\_coil7\_err\_mean vs Slug



|                             |                                                                     |                         |                                      |
|-----------------------------|---------------------------------------------------------------------|-------------------------|--------------------------------------|
| Right In: 2662.183+/-0.000  | $\chi^2/\text{NDF}$ : 1031389230165640157864439705583367487488.0/14 | + sign 2899.744+/-0.000 | $\chi^2/\text{NDF}$ : 21724325951632 |
| Left Out: 3067.875+/-0.000  | $\chi^2/\text{NDF}$ : 1078495187687389019694818149822179049472.0/11 | All: 2939.136+/-0.000   | $\chi^2/\text{NDF}$ : 41629642806    |
| Right Out: 2624.696+/-0.000 | $\chi^2/\text{NDF}$ : 1566705216866534713590934835660406652928.0/15 | - sign 2977.909+/-0.000 | $\chi^2/\text{NDF}$ : 19857098184284 |
| Left In: 3232.879+/-0.000   | $\chi^2/\text{NDF}$ : 275721007613891276741007240283331493888.0/10  |                         |                                      |

dit\_atl2\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

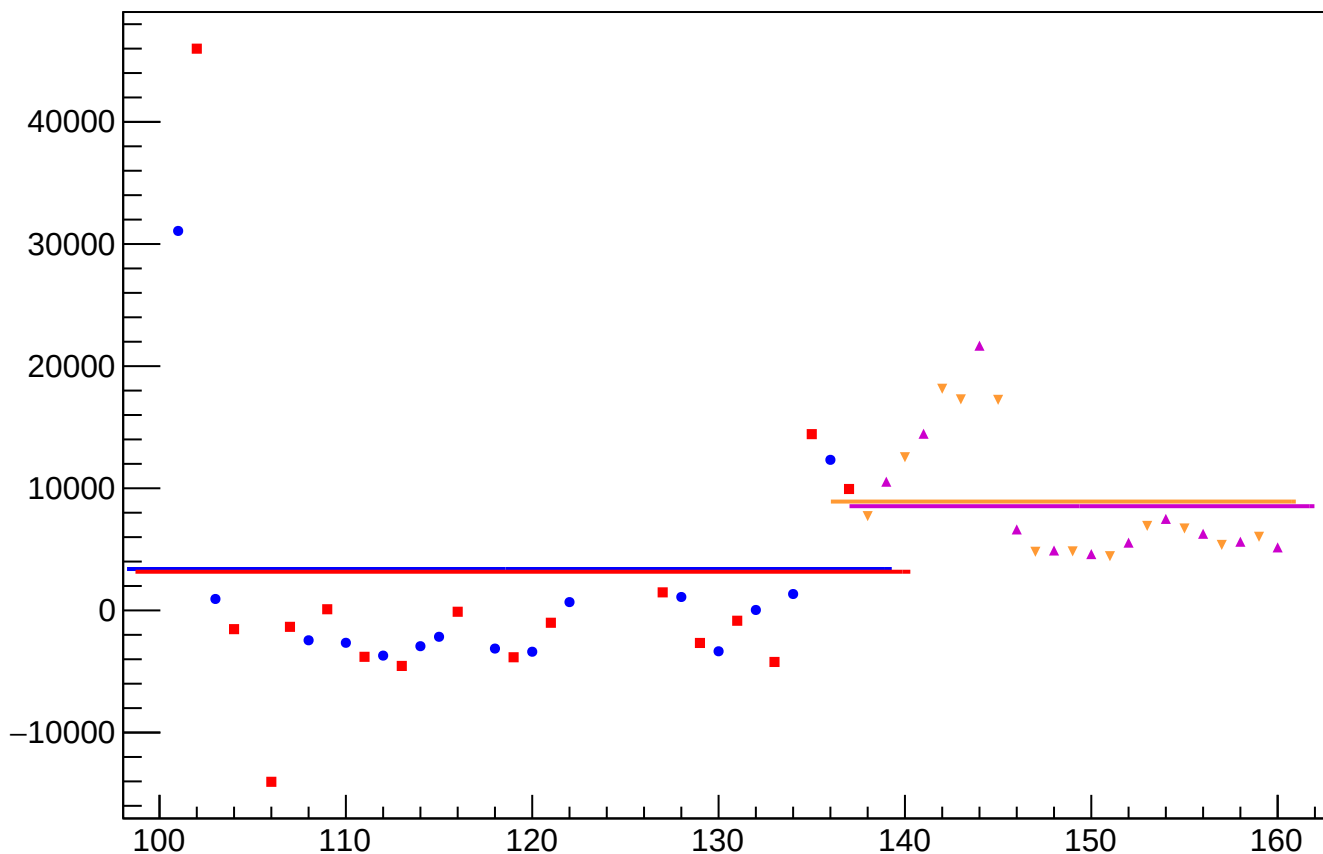
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

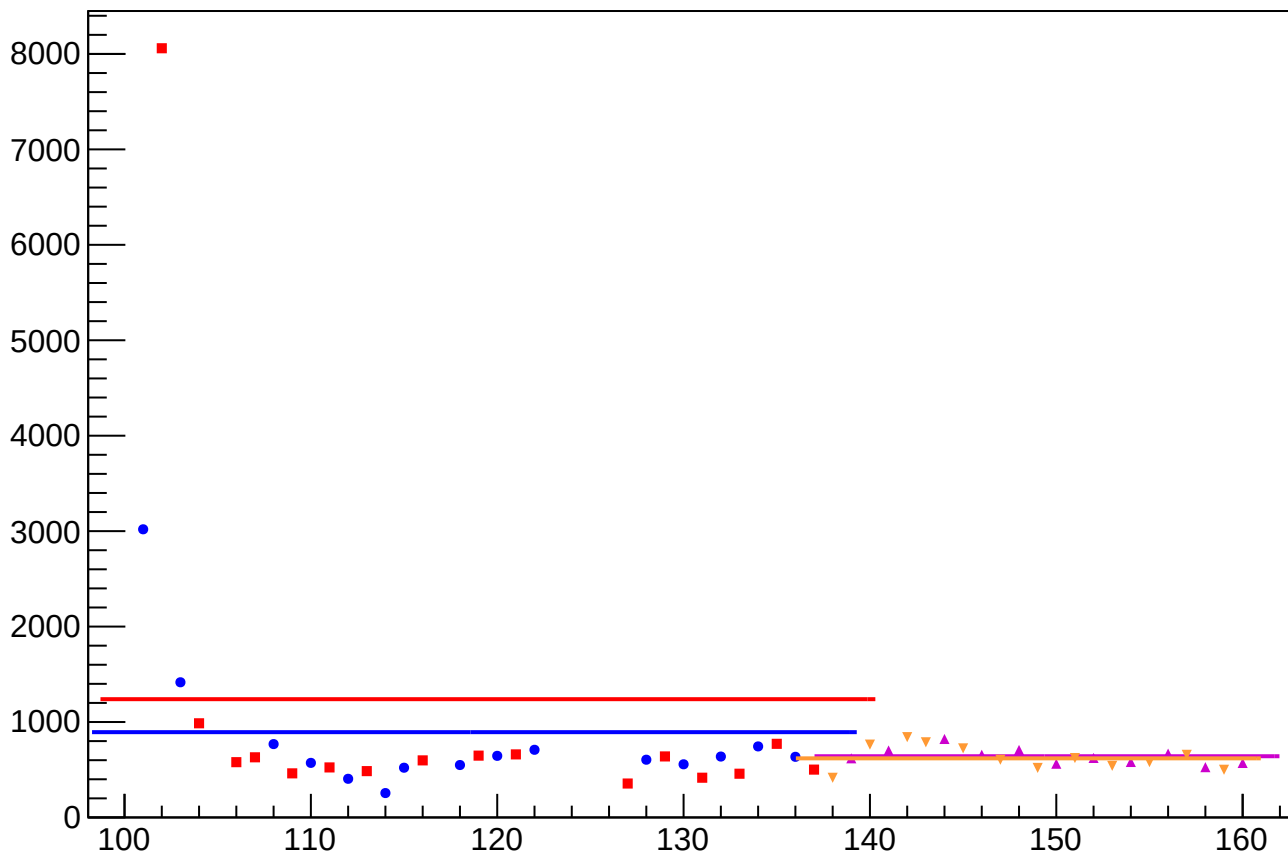
- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

dit\_atr1\_coil7\_mean vs Slug



Right In: 3390.550+/-0.000  $\chi^2/\text{NDF}$ : 65871927441553256724179194556280173756416.0/14  
 Left Out: 8912.459+/-0.000  $\chi^2/\text{NDF}$ : 22070544402646074284268231690805235941376.0/11  
 Right Out: 3167.396+/-0.000  $\chi^2/\text{NDF}$ : 137753886677241144460462531881687568089088.0/15  
 Left In: 8532.821+/-0.000  $\chi^2/\text{NDF}$ : 24299515949380224586324737558095226470400.0/10

dit\_atr1\_coil7\_err\_mean vs Slug



Right In: 893.683+/-0.000  $\chi^2/\text{NDF}$ : 334583619078631008932404228227359309824.0/14

+ sign 733.050+/-0.000  $\chi^2/\text{NDF}$ : 375925094146267

Left Out: 619.363+/-0.000  $\chi^2/\text{NDF}$ : 12743310597907802273598099300489887744.0/11

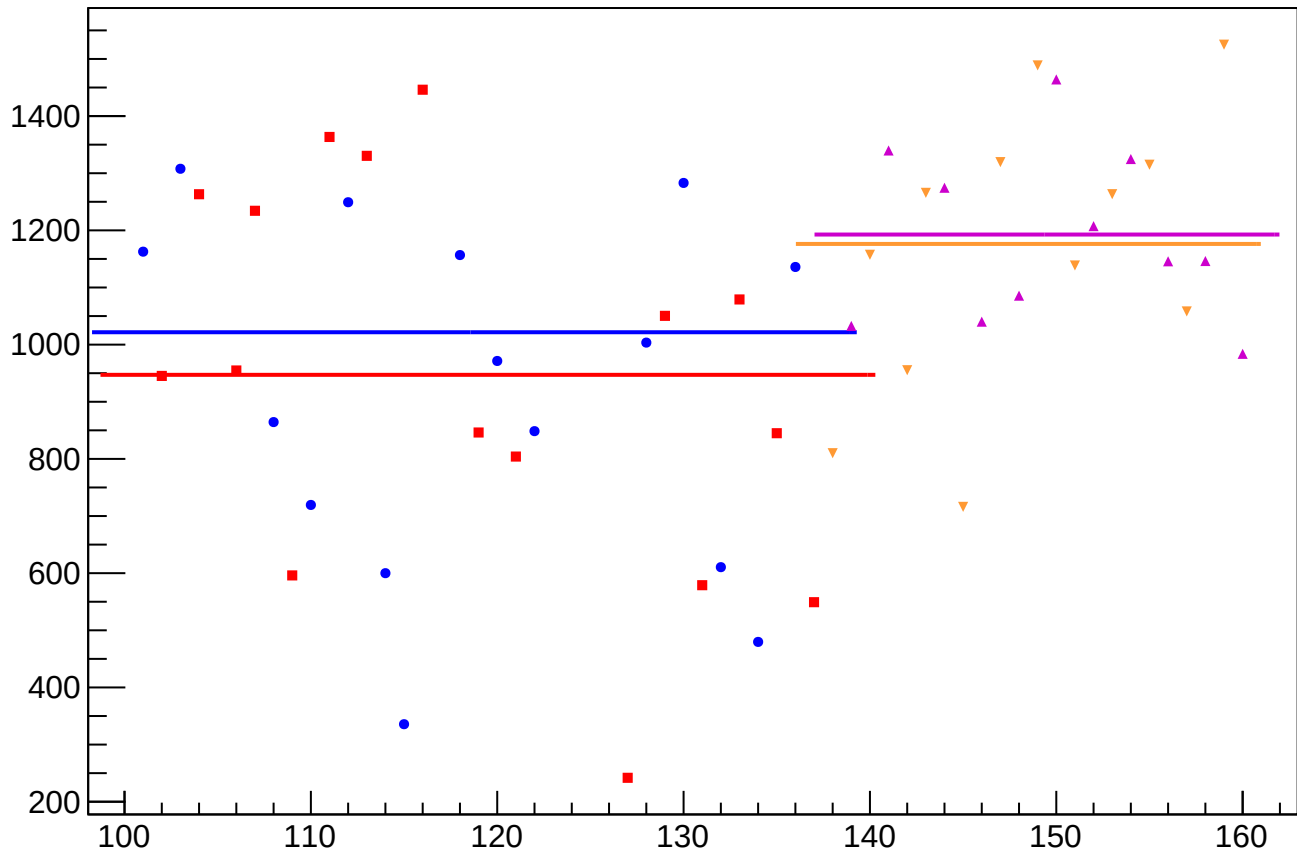
All: 813.210+/-0.000  $\chi^2/\text{NDF}$ : 351136718180

Right Out: 1239.298+/-0.000  $\chi^2/\text{NDF}$ : 2970990859486483990408108918937565003776.0/15

- sign 892.111+/-0.000  $\chi^2/\text{NDF}$ : 311547484911191

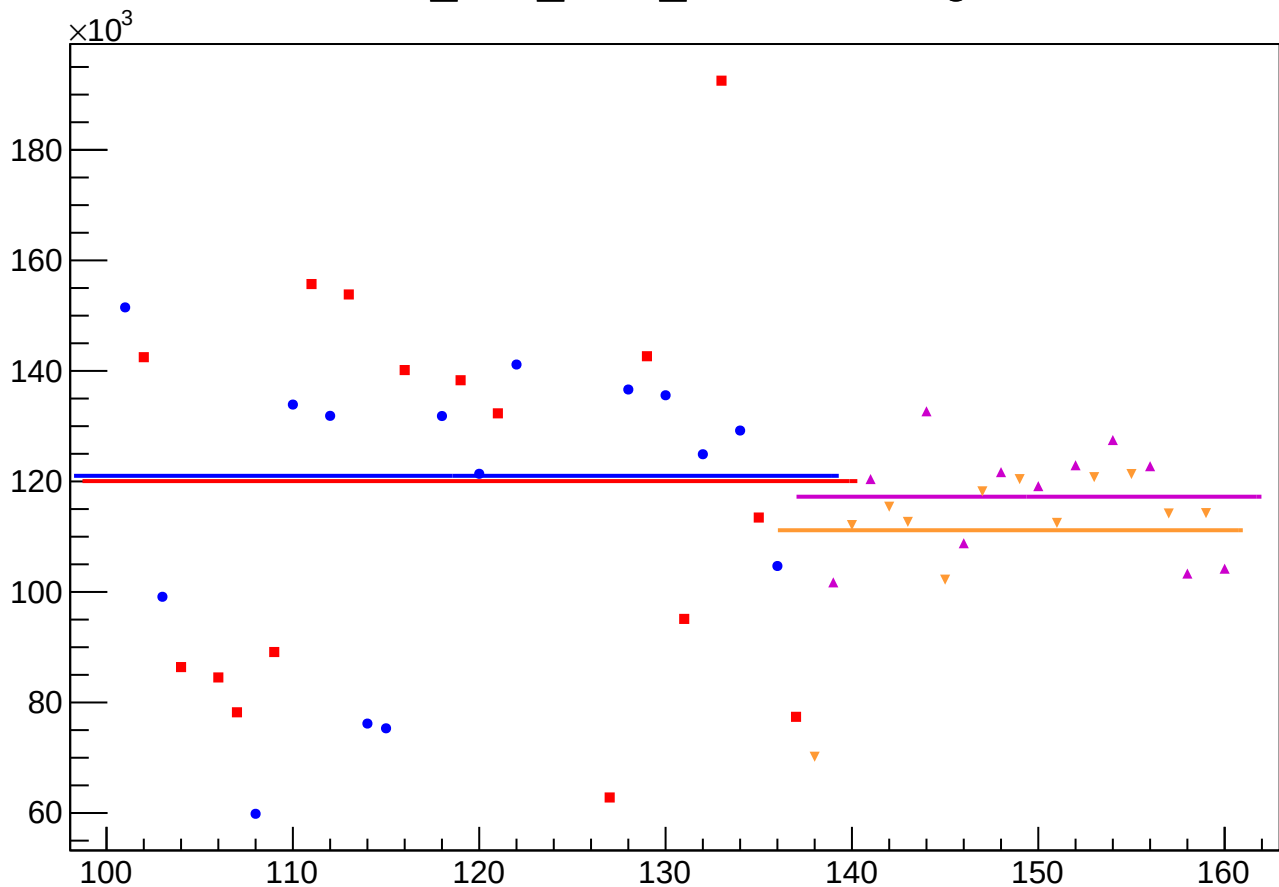
Left In: 641.490+/-0.000  $\chi^2/\text{NDF}$ : 6047241871046466320943152926715543552.0/10

dit\_atr1\_coil7\_Ndata\_mean vs Slug



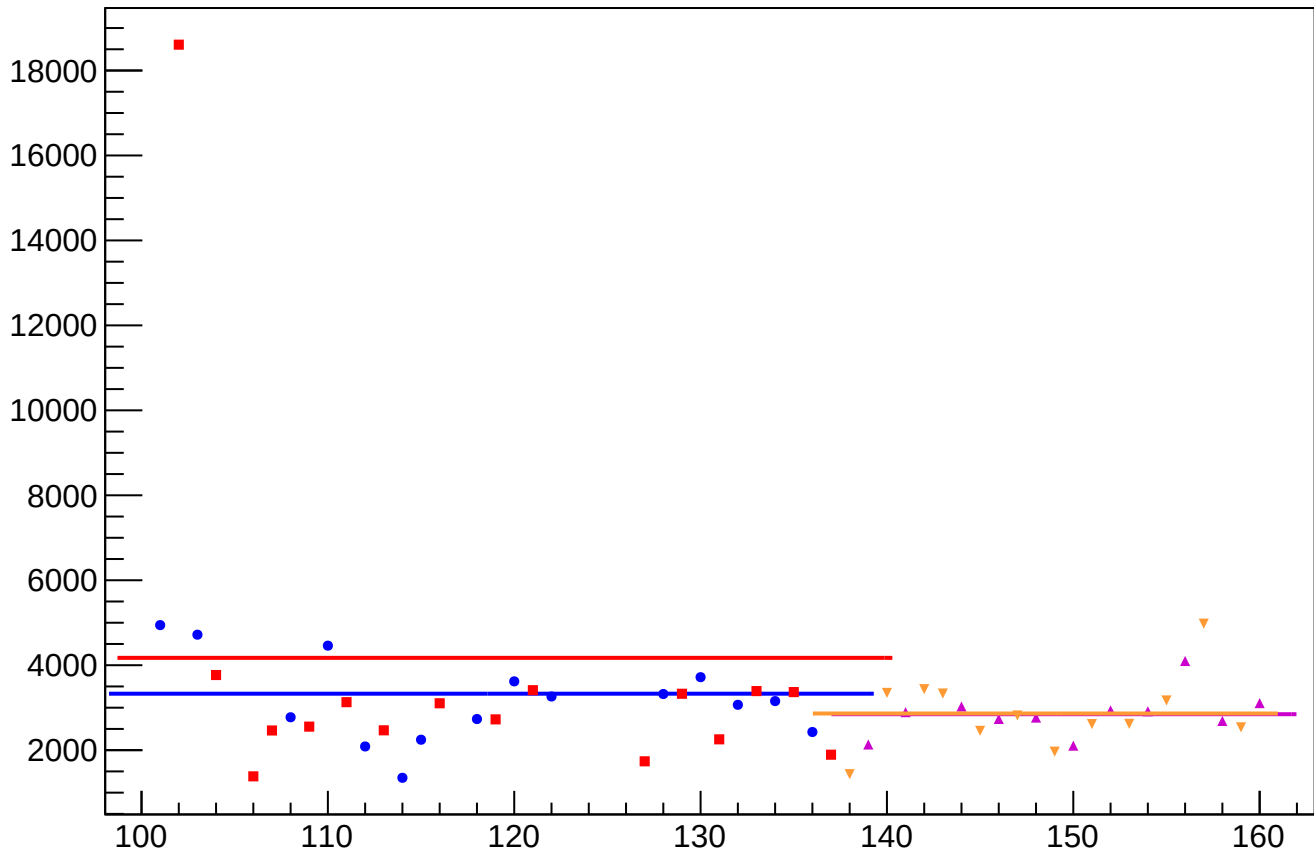
|                            |                                                                   |                         |                                      |
|----------------------------|-------------------------------------------------------------------|-------------------------|--------------------------------------|
| Right In: 1021.684+/-0.000 | $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14 | + sign 1112.188+/-0.000 | $\chi^2/\text{NDF}$ : 10292693819422 |
| Left Out: 1176.242+/-0.000 | $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11 | All: 1100.879+/-0.000   | $\chi^2/\text{NDF}$ : 21371922767    |
| Right Out: 947.145+/-0.000 | $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15 | - sign 1089.748+/-0.000 | $\chi^2/\text{NDF}$ : 11039486982366 |
| Left In: 1192.687+/-0.000  | $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10 |                         |                                      |

# dit\_atr2\_coil7\_mean vs Slug



Right In: 121016.482 $\pm$ 0.000  $\chi^2$ /NDF: 358713856404303554987784975983609668173824.0/14  
 Left Out: 111166.801 $\pm$ 0.000  $\chi^2$ /NDF: 167364192439388047212250461007969368670208.0/11  
 Right Out: 120060.693 $\pm$ 0.000  $\chi^2$ /NDF: 828419782346707601448620310014135952736256.0/15  
 Left In: 117237.465 $\pm$ 0.000  $\chi^2$ /NDF: 92299527706158063096544434206678792011776.0/10

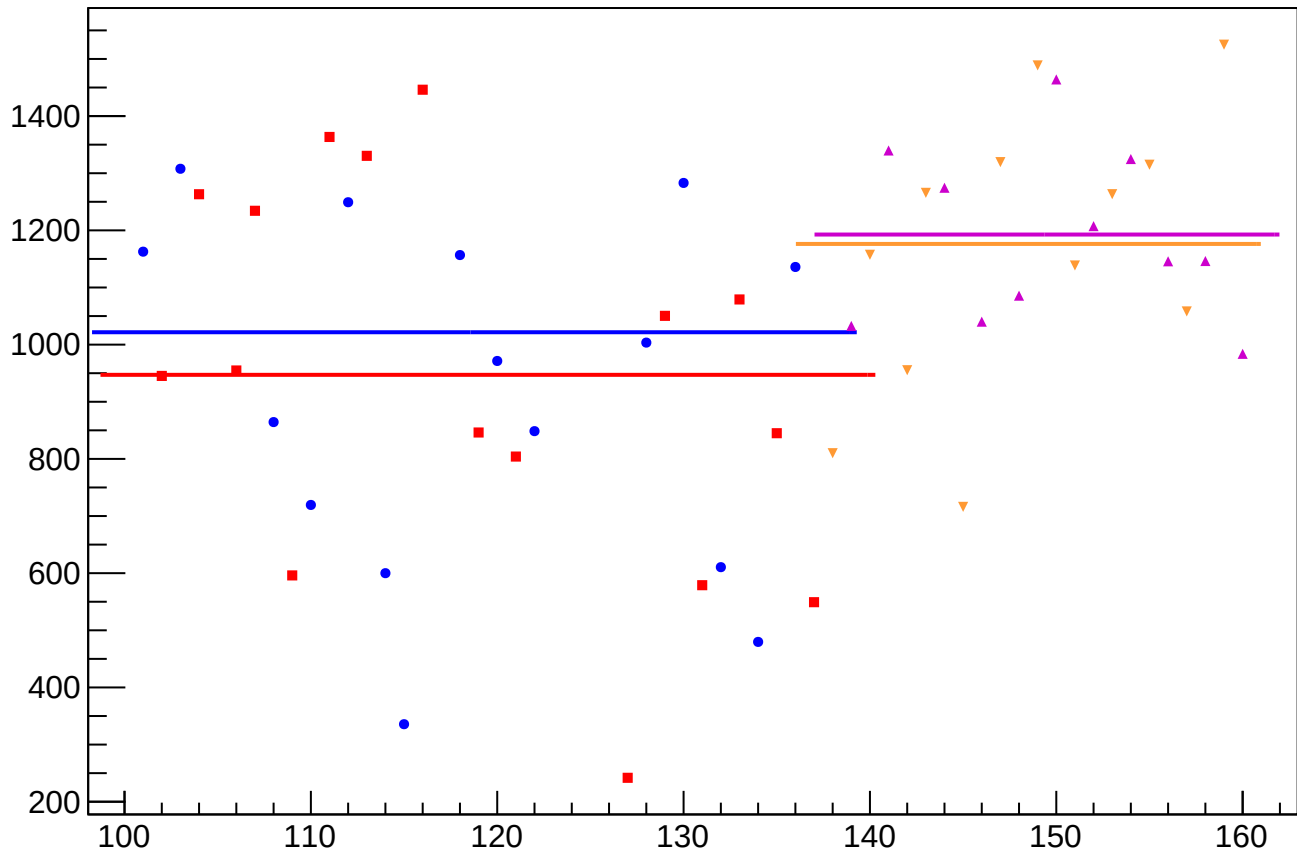
dit\_atr2\_coil7\_err\_mean vs Slug



Right In:  $3329.488 \pm 0.000$   $\chi^2/\text{NDF}$ : 567034774398456376227526824513721335808.0/14  
 Left Out:  $2863.169 \pm 0.000$   $\chi^2/\text{NDF}$ : 668766817298044492245074854515224608768.0/11  
 Right Out:  $4173.434 \pm 0.000$   $\chi^2/\text{NDF}$ : 13498246551537992400095003154682468106240.0/15  
 Left In:  $2846.559 \pm 0.000$   $\chi^2/\text{NDF}$ : 229557109736682123603885764134616170496.0/10

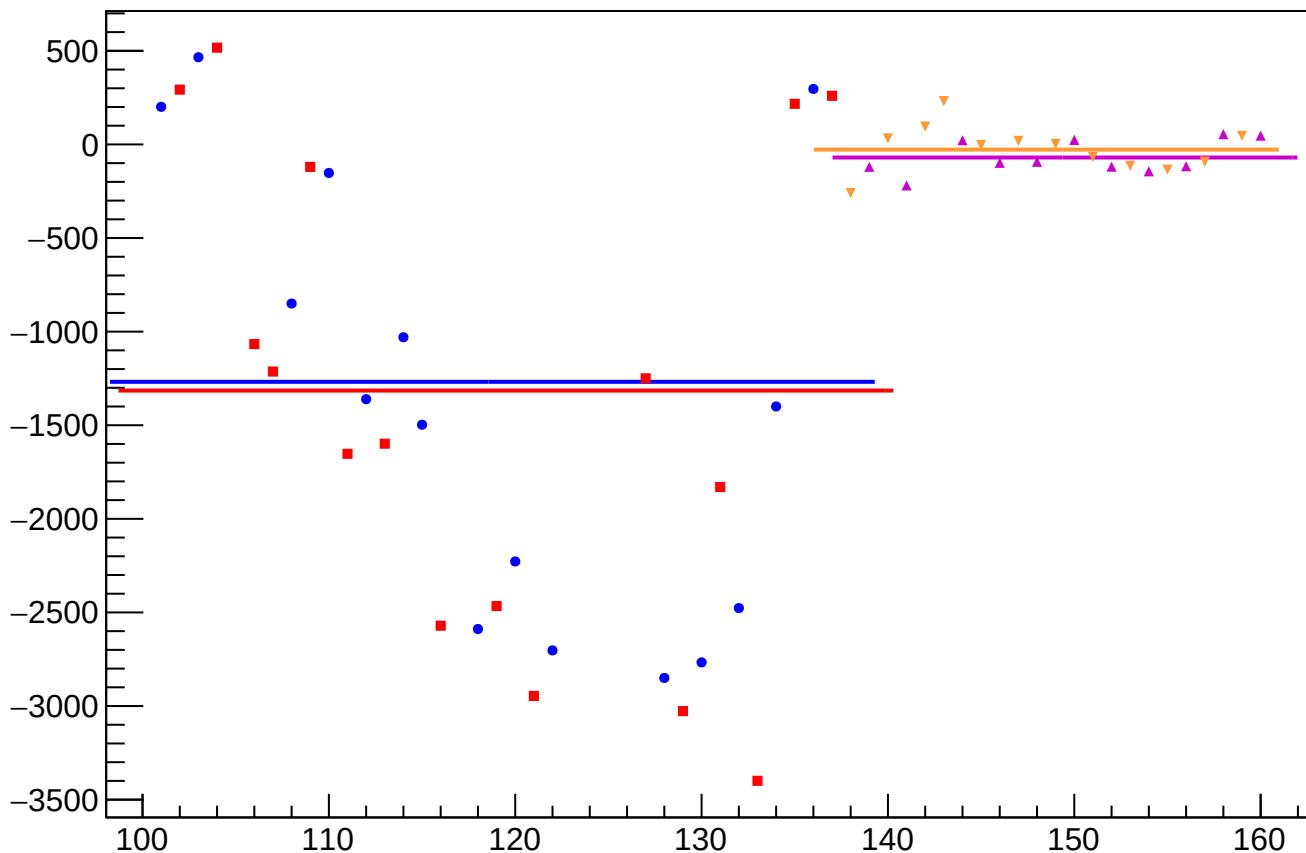


dit\_atr2\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

# dit\_sam1\_coil7\_mean vs Slug



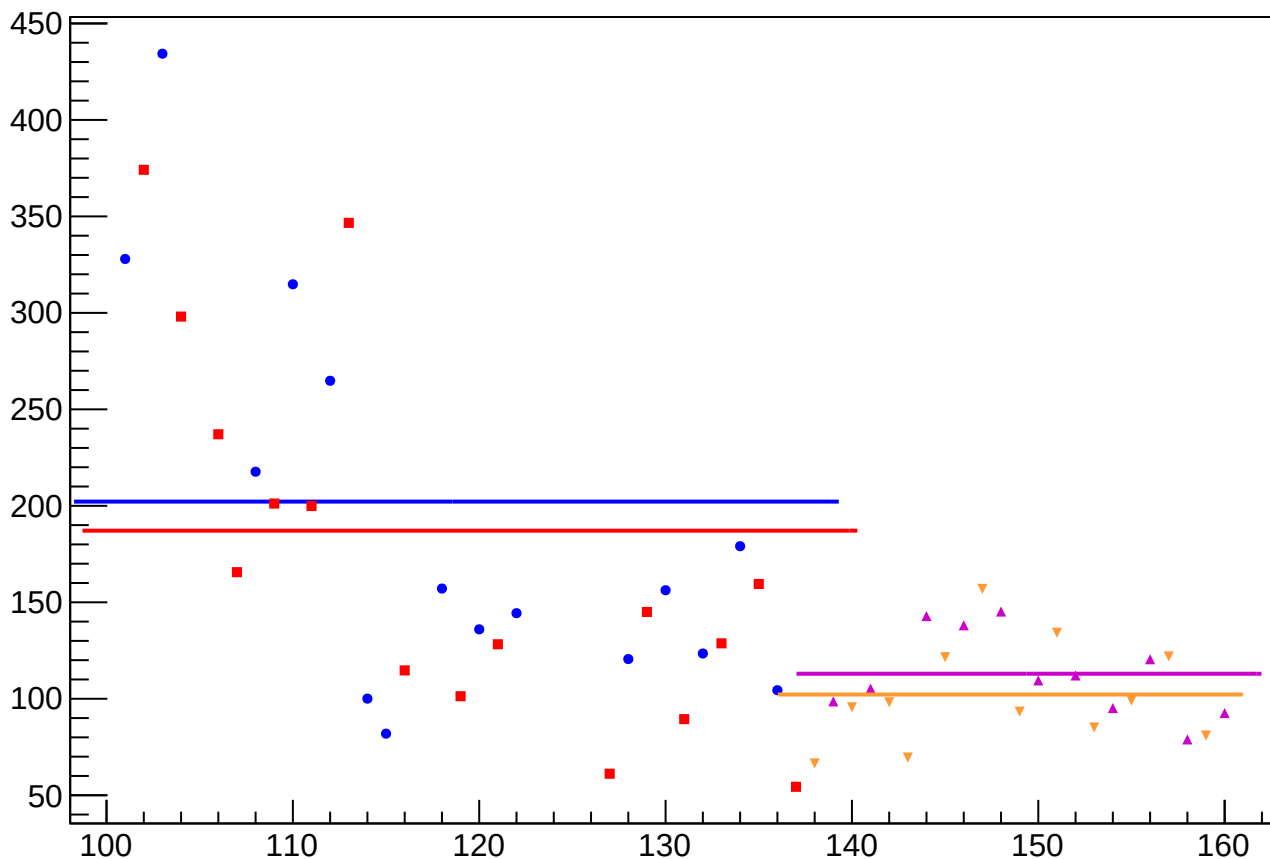
Right In: -1268.061+/-0.000  $\chi^2/\text{NDF}$ : 1092280760288833856070470490800647045120.0/14

Left Out: -27.654+/-0.000  $\chi^2/\text{NDF}$ : 12404131617036288818573632516917297152.0/11

Right Out: -1314.767+/-0.000  $\chi^2/\text{NDF}$ : 1098471313864079013714609379653260935168.0/15

Left In: -69.887+/-0.000  $\chi^2/\text{NDF}$ : 6896729055106095492675290775544659968.0/10

# dit\_sam1\_coil7\_err\_mean vs Slug



Right In: 202.191 $\pm$ 0.000  $\chi^2$ /NDF: 7027941052752849066369040650615128064.0/14

Left Out: 102.211 $\pm$ 0.000  $\chi^2$ /NDF: 617349982651654313498458631453016064.0/11

Right Out: 187.126 $\pm$ 0.000  $\chi^2$ /NDF: 6230029491605524746936515809941389312.0/15

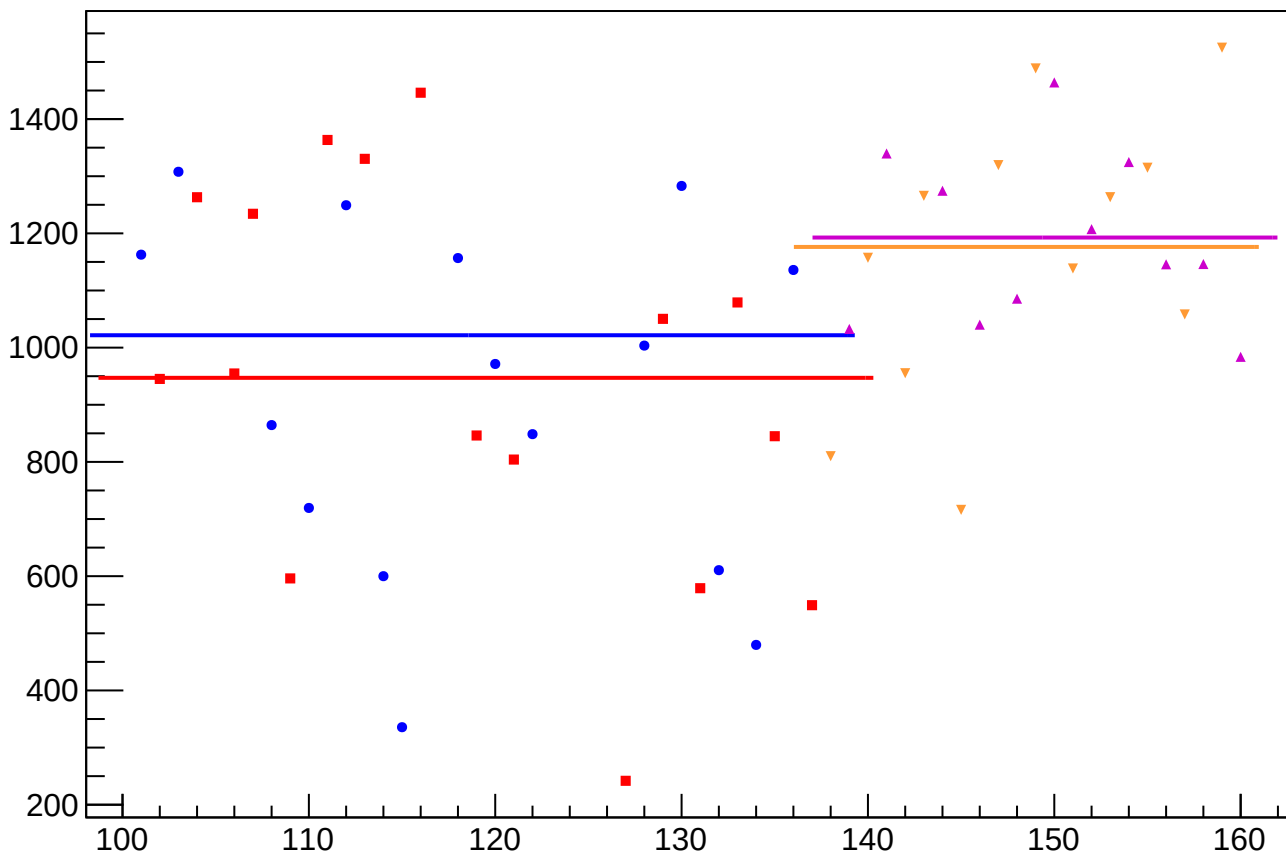
Left In: 112.981 $\pm$ 0.000  $\chi^2$ /NDF: 399082569166702797505998561799569408.0/10

+ sign 143.646 $\pm$ 0.000  $\chi^2$ /NDF: 114440760944396

All: 143.857 $\pm$ 0.000  $\chi^2$ /NDF: 202028588615

- sign 144.065 $\pm$ 0.000  $\chi^2$ /NDF: 875864401174807

dit\_sam1\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

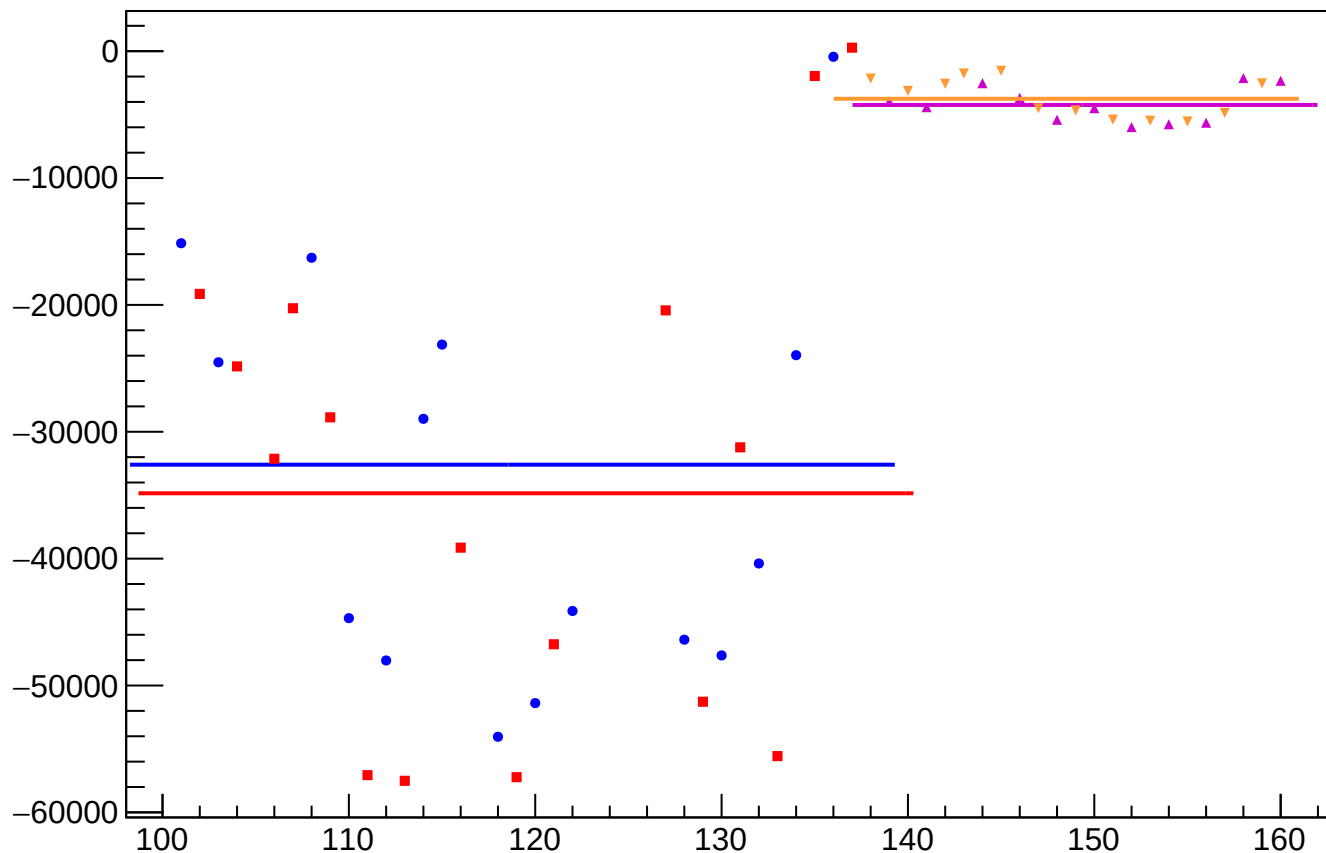
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188+/-0.000  $\chi^2/\text{NDF}$ : 10292693819422

All: 1100.879+/-0.000  $\chi^2/\text{NDF}$ : 21371922767

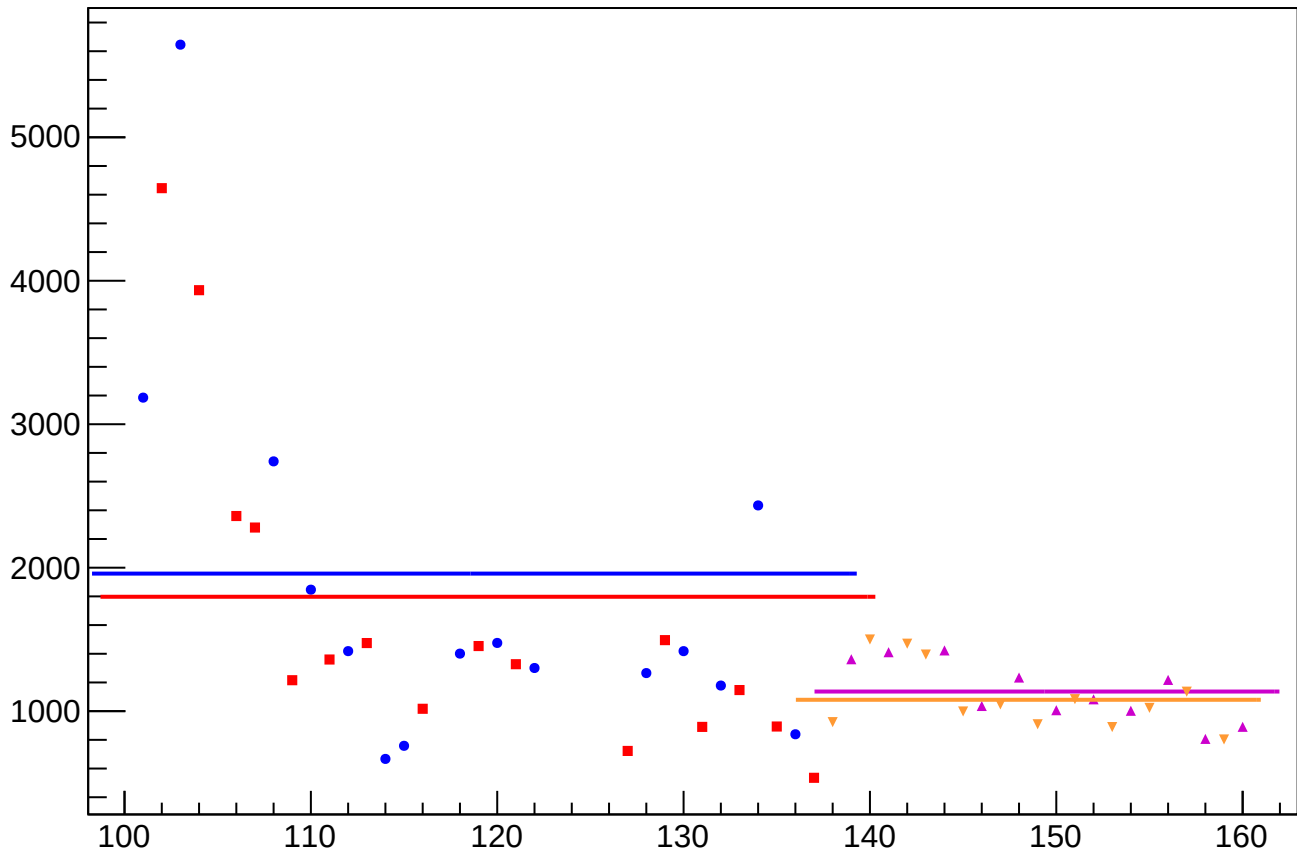
- sign 1089.748+/-0.000  $\chi^2/\text{NDF}$ : 11039486982366

# dit\_sam2\_coil7\_mean vs Slug



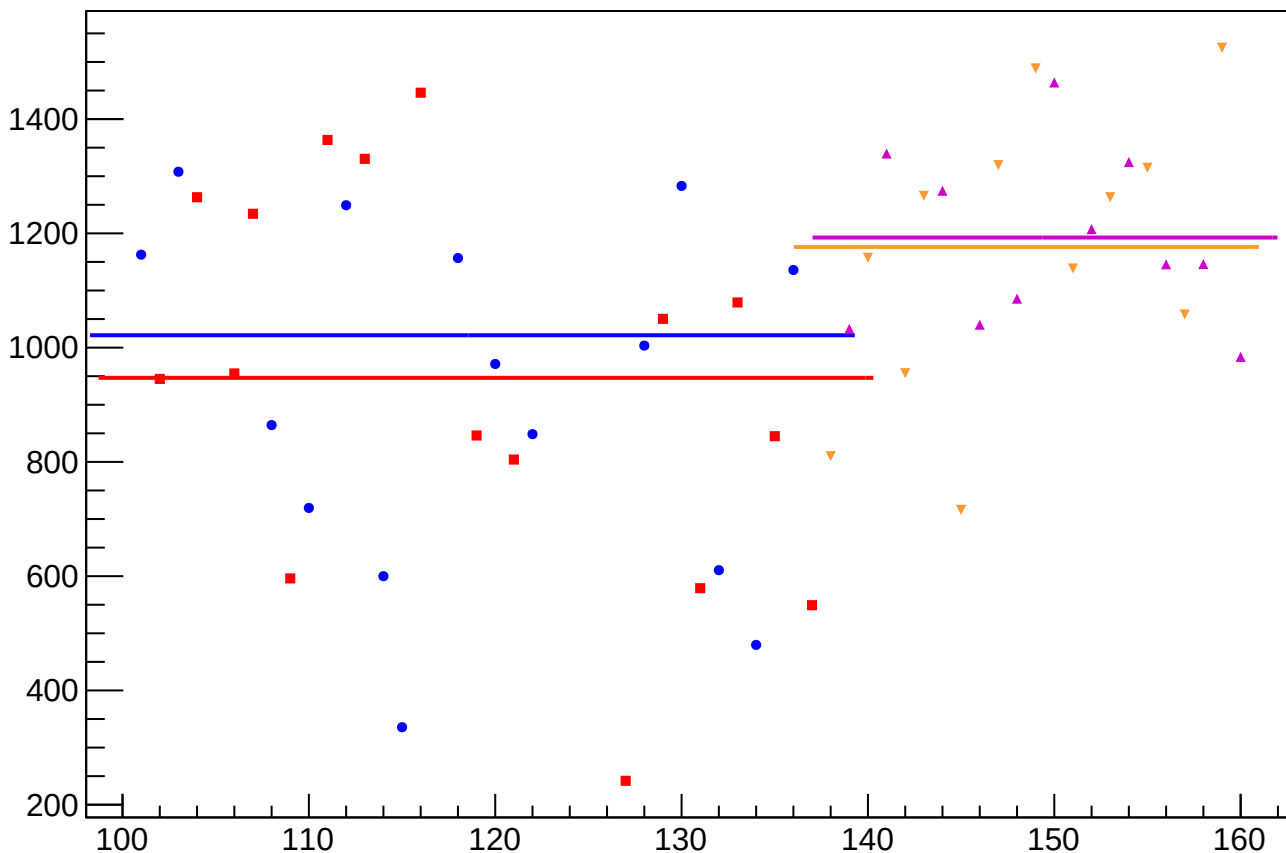
Right In:  $-32594.962 \pm 0.000$   $\chi^2/\text{NDF}: 209150369207000564489724529020922520141824.0/14$   
 Left Out:  $-3752.448 \pm 0.000$   $\chi^2/\text{NDF}: 2004018922397864512506251751982968602624.0/11$   
 Right Out:  $-34848.046 \pm 0.000$   $\chi^2/\text{NDF}: 221127702024811719232559434097324967591936.0/15$   
 Left In:  $-4238.758 \pm 0.000$   $\chi^2/\text{NDF}: 1676258877466067471746283067125033598976.0/10$

# dit\_sam2\_coil7\_err\_mean vs Slug



Right In: 1958.835+/-0.000  $\chi^2/\text{NDF}$ : 1189322999631358431600643692981190131712.0/14  
 Left Out: 1079.227+/-0.000  $\chi^2/\text{NDF}$ : 42839458661255724609894406058462412800.0/11  
 Right Out: 1797.392+/-0.000  $\chi^2/\text{NDF}$ : 955096623879958195657195074614240215040.0/15  
 Left In: 1136.738+/-0.000  $\chi^2/\text{NDF}$ : 36660640388160233770492299797174681600.0/10

dit\_sam2\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684 $\pm$ 0.000  $\chi^2/NDF$ : 40493101470870278397836276403592495104.0/14

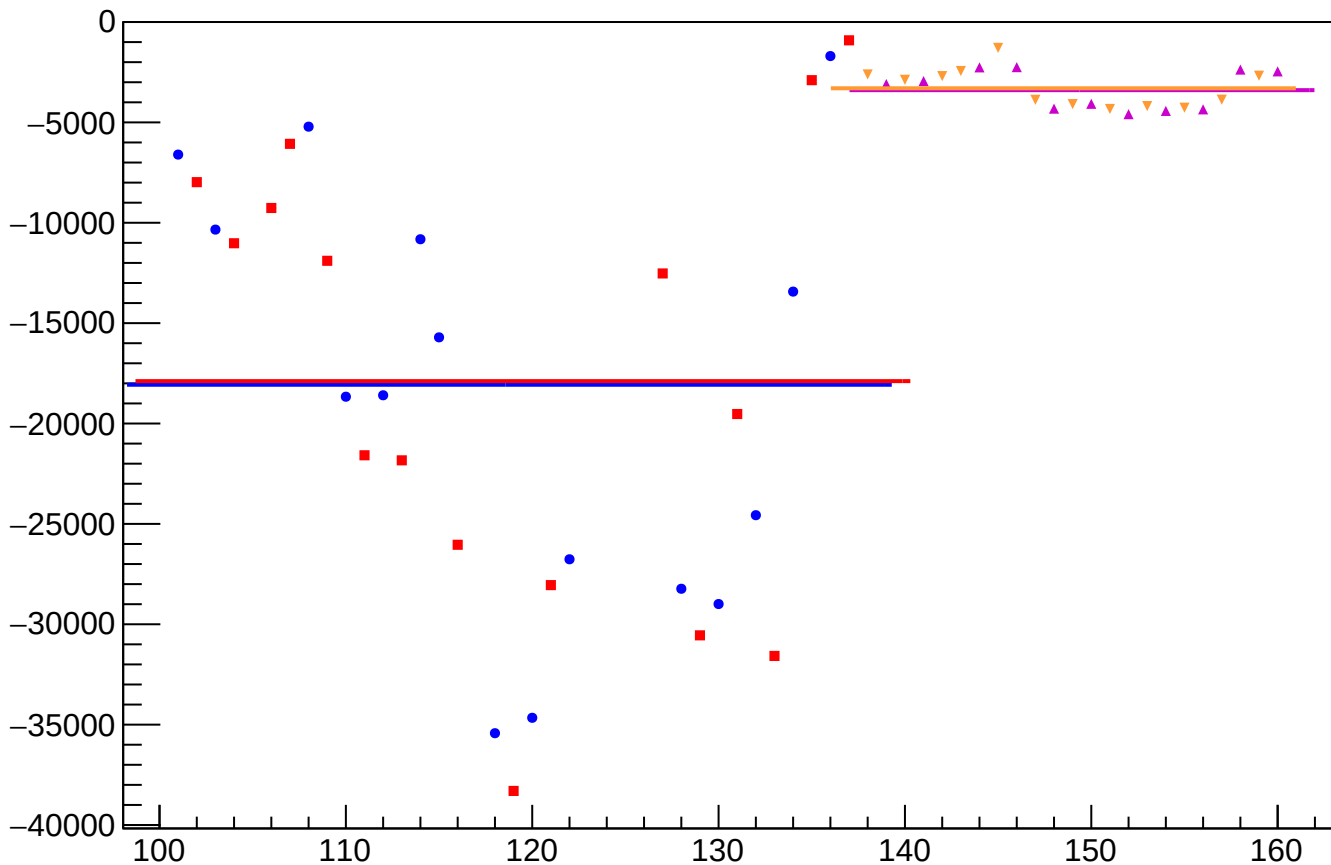
Left Out: 1176.242 $\pm$ 0.000  $\chi^2/NDF$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145 $\pm$ 0.000  $\chi^2/NDF$ : 67784656011936521511169668028018196480.0/15

Left In: 1192.687 $\pm$ 0.000  $\chi^2/NDF$ : 19255287383728205662654022867381911552.0/10

+ sign 1112.188 $\pm$ 0.000  $\chi^2/NDF$ : 10292693819422  
 All: 1100.879 $\pm$ 0.000  $\chi^2/NDF$ : 2137192276  
 - sign 1089.748 $\pm$ 0.000  $\chi^2/NDF$ : 11039486982366

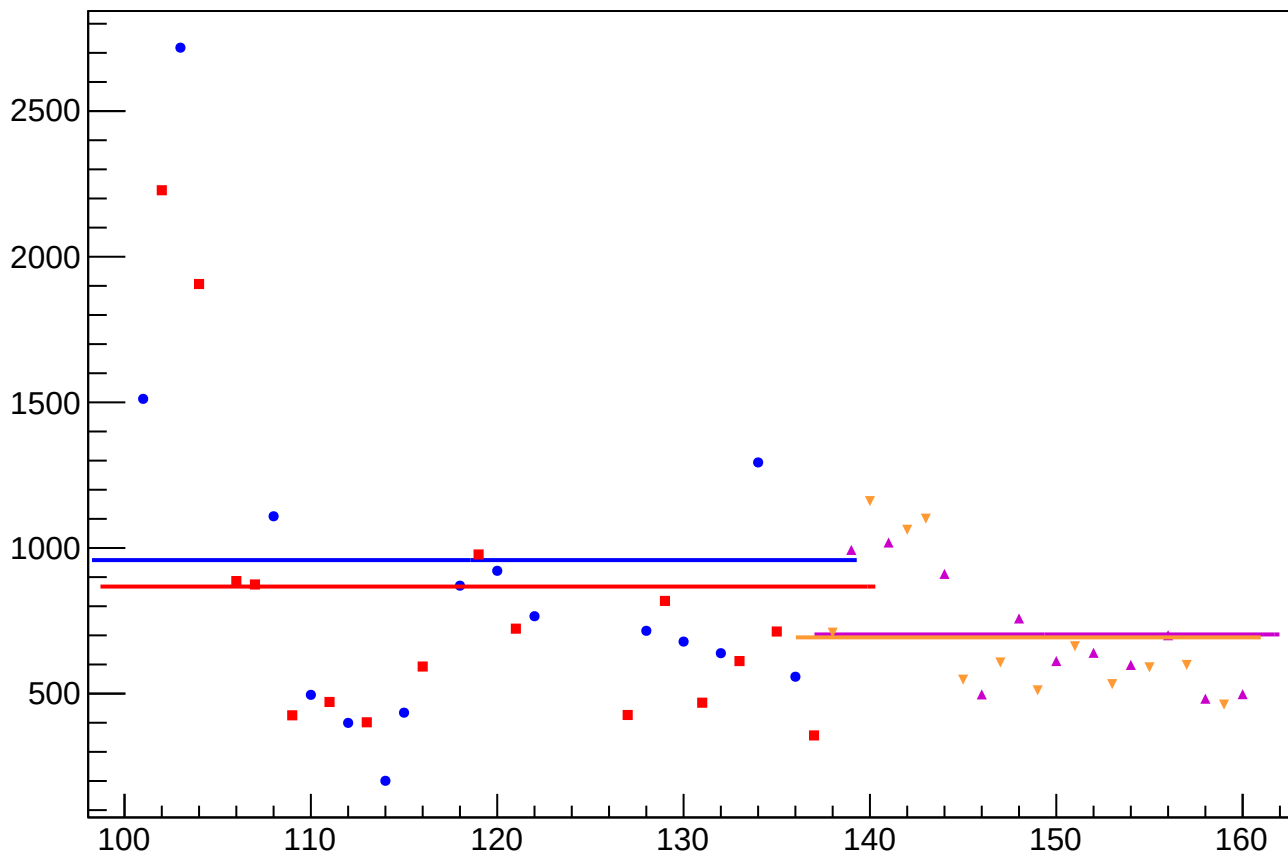
dit\_sam3\_coil7\_mean vs Slug



Right In: -18068.550+/-0.000  $\chi^2/\text{NDF}$ : 84312156443533553417760933497753760169984.0/14  
 Left Out: -3301.165+/-0.000  $\chi^2/\text{NDF}$ : 804572006868088518224503479729974673408.0/11  
 Right Out: -17888.149+/-0.000  $\chi^2/\text{NDF}$ : 78405915612914252869875231068795393015808.0/15  
 Left In: -3394.339+/-0.000  $\chi^2/\text{NDF}$ : 804969095824057391704293669390893711360.0/10  
 All: -9446.127+/-0.000  $\chi^2/\text{NDF}$ : 3285809924  
 + sign -9421.237+/-0.000  $\chi^2/\text{NDF}$ : 1679928582354  
 - sign -9470.625+/-0.000  $\chi^2/\text{NDF}$ : 1605862092635



dit\_sam3\_coil7\_err\_mean vs Slug



Right In: 958.411+/-0.000  $\chi^2/\text{NDF}$ : 264733105058522822278137197070739570688.0/14

Left Out: 693.081+/-0.000  $\chi^2/\text{NDF}$ : 48514734468503708126538641267241254912.0/11

Right Out: 867.538+/-0.000  $\chi^2/\text{NDF}$ : 216129851545166714122252317604488151040.0/15

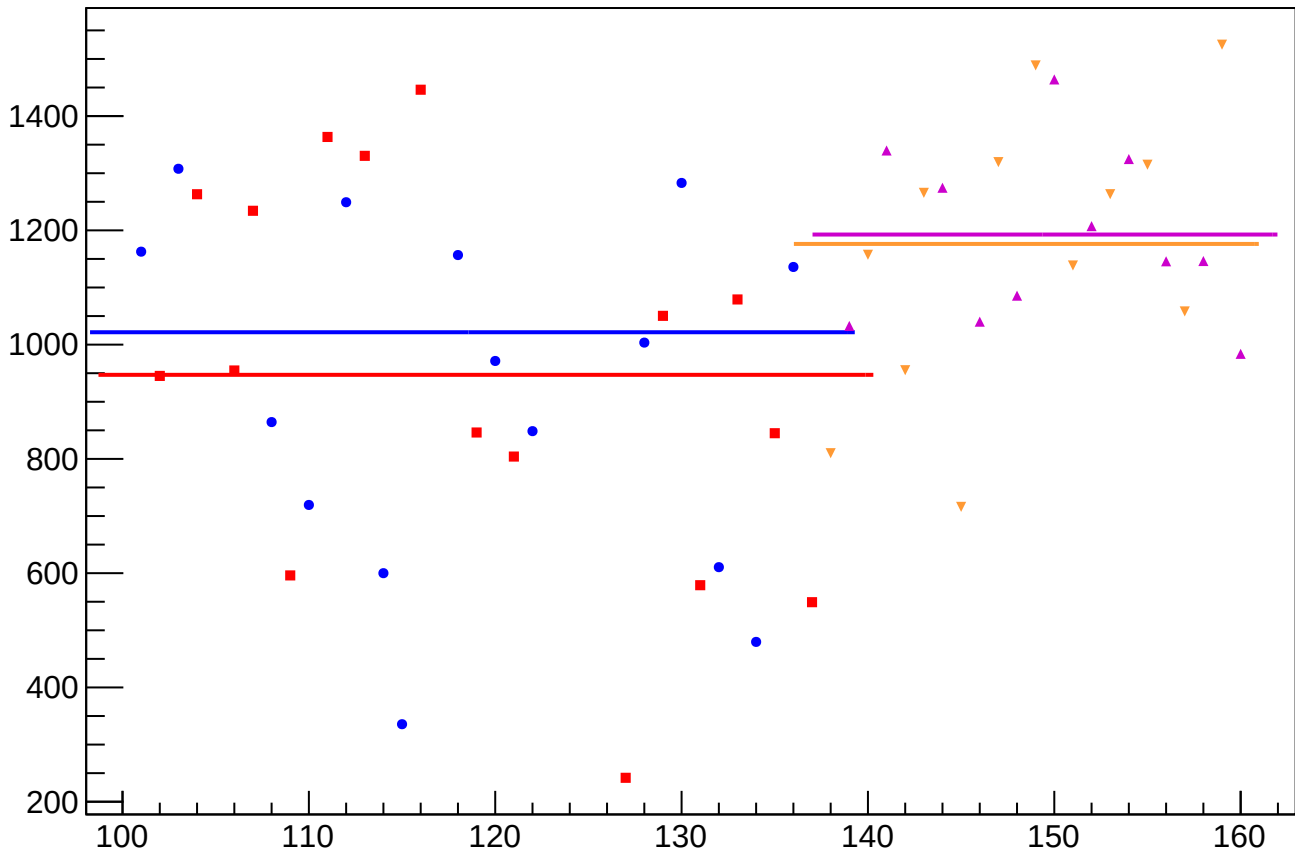
Left In: 703.169+/-0.000  $\chi^2/\text{NDF}$ : 32040531861451426969939944767733366784.0/10

+ sign 803.042+/-0.000  $\chi^2/\text{NDF}$ : 340002051465398

All: 787.437+/-0.000  $\chi^2/\text{NDF}$ : 599394746254

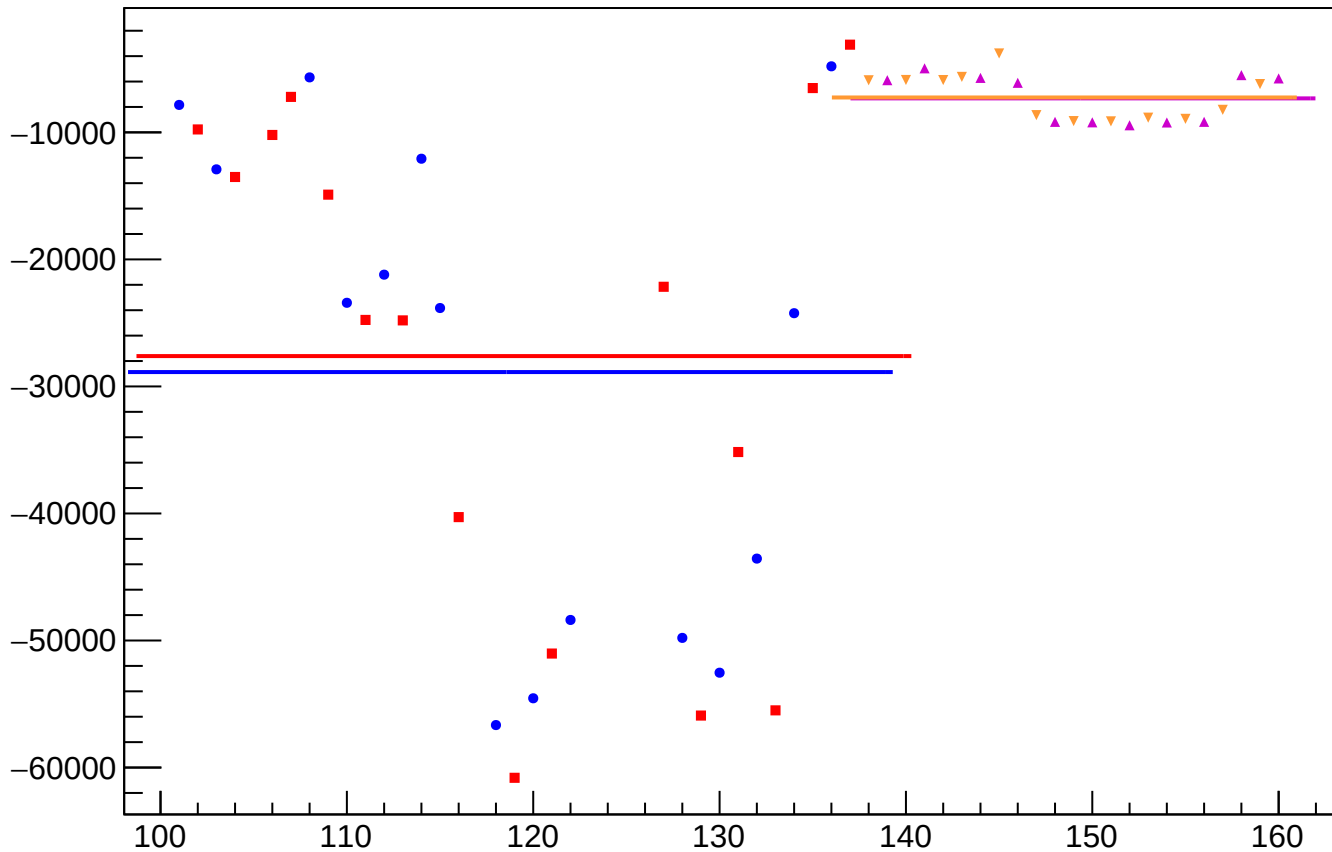
- sign 772.078+/-0.000  $\chi^2/\text{NDF}$ : 258636009193620

dit\_sam3\_coil7\_Ndata\_mean vs Slug



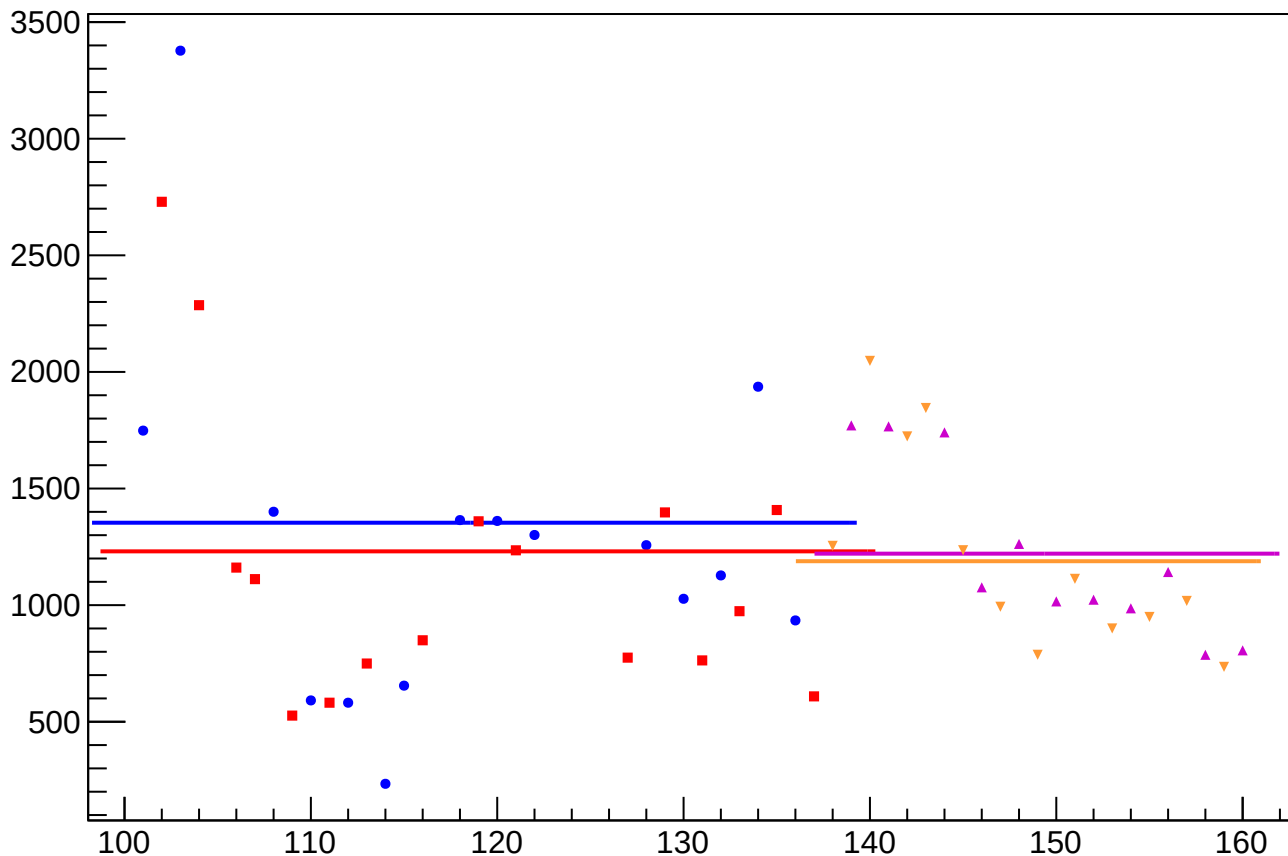
Right In: 1021.684 $\pm$ 0.000  $\chi^2$ /NDF: 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242 $\pm$ 0.000  $\chi^2$ /NDF: 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145 $\pm$ 0.000  $\chi^2$ /NDF: 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687 $\pm$ 0.000  $\chi^2$ /NDF: 19255287383728205662654022867381911552.0/10

dit\_sam4\_coil7\_mean vs Slug



Right In: -28868.624+/-0.000  $\chi^2/\text{NDF}$ : 261450701095727362961367657926584124309504.0/14  
 Left Out: -7254.077+/-0.000  $\chi^2/\text{NDF}$ : 2852558880492321663467062466027223777280.0/11  
 Right Out: -27610.848+/-0.000  $\chi^2/\text{NDF}$ : 248097983477523504935751571384400118546432.0/15  
 Left In: -7325.095+/-0.000  $\chi^2/\text{NDF}$ : 3045991167952377112422516937599716687872.0/10

dit\_sam4\_coil7\_err\_mean vs Slug



Right In: 1353.413+/-0.000  $\chi^2/\text{NDF}$ : 352887966702770713373861839880553758720.0/14

Left Out: 1188.374+/-0.000  $\chi^2/\text{NDF}$ : 150388636614326916750918220287509004288.0/11

Right Out: 1230.633+/-0.000  $\chi^2/\text{NDF}$ : 276989454129150005656872744539903754240.0/15

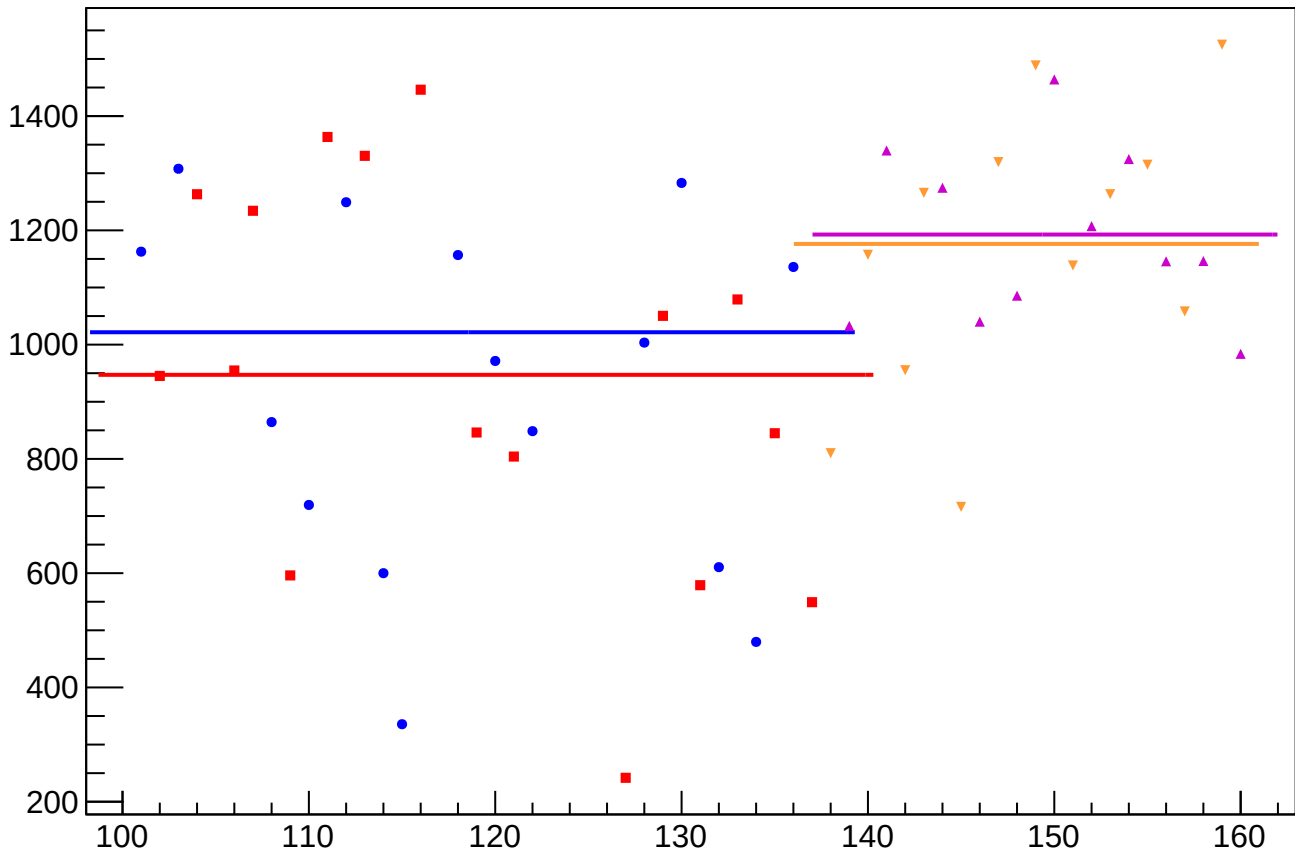
Left In: 1220.761+/-0.000  $\chi^2/\text{NDF}$ : 116296897250486719965341990830940880896.0/10

+ sign 1256.772+/-0.000  $\chi^2/\text{NDF}$ : 51362789926626

All: 1240.709+/-0.000  $\chi^2/\text{NDF}$ : 90775370233

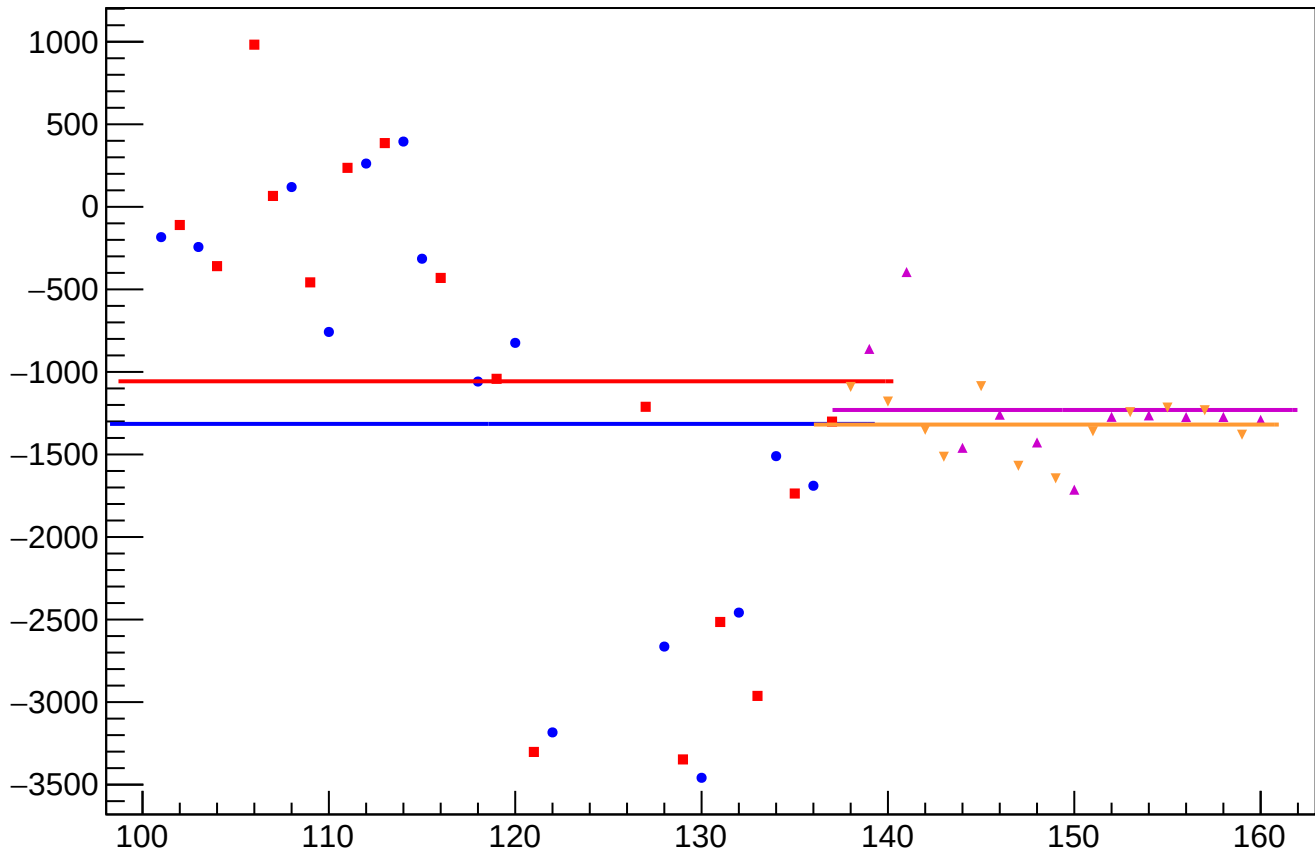
- sign 1224.899+/-0.000  $\chi^2/\text{NDF}$ : 39332410450392

dit\_sam4\_coil7\_Ndata\_mean vs Slug



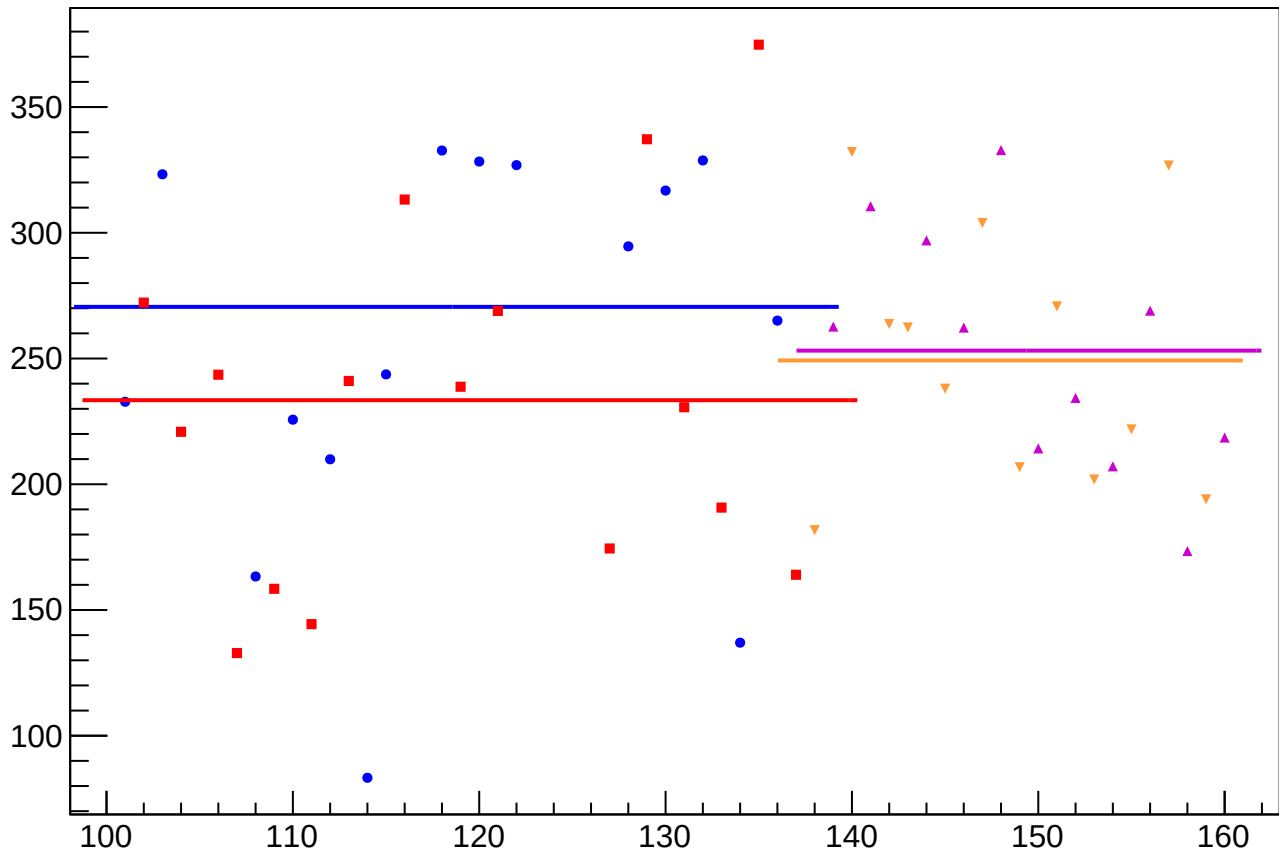
Right In: 1021.684 $\pm$ 0.000  $\chi^2$ /NDF: 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242 $\pm$ 0.000  $\chi^2$ /NDF: 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145 $\pm$ 0.000  $\chi^2$ /NDF: 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687 $\pm$ 0.000  $\chi^2$ /NDF: 19255287383728205662654022867381911552.0/10

# dit\_sam5\_coil7\_mean vs Slug



Right In:  $-1314.782 \pm 0.000$   $\chi^2/\text{NDF}: 966082368518203481544021644405645508608.0/14$   
 Left Out:  $-1318.814 \pm 0.000$   $\chi^2/\text{NDF}: 28738856775554340954745144784441049088.0/11$   
 Right Out:  $-1056.765 \pm 0.000$   $\chi^2/\text{NDF}: 1127141594187417021949832477353286041600.0/15$   
 Left In:  $-1230.430 \pm 0.000$   $\chi^2/\text{NDF}: 100431691068850056086409132460520505344.0/10$

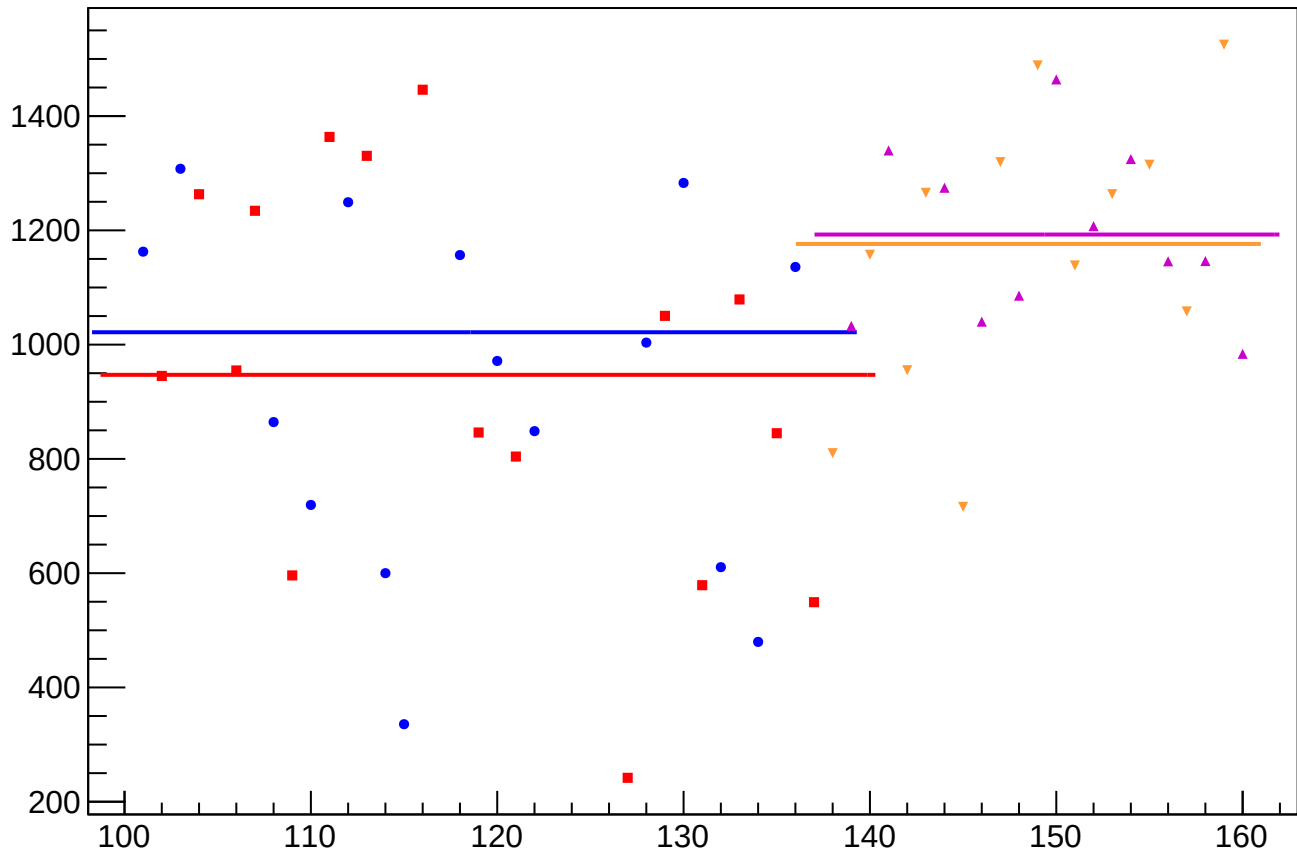
dit\_sam5\_coil7\_err\_mean vs Slug



|                            |                                                                  |
|----------------------------|------------------------------------------------------------------|
| Right In: 270.538+/-0.000  | $\chi^2/\text{NDF}$ : 2473839905347950323907848405170257920.0/14 |
| Left Out: 249.237+/-0.000  | $\chi^2/\text{NDF}$ : 2339906474360292493064044354333573120.0/11 |
| Right Out: 233.421+/-0.000 | $\chi^2/\text{NDF}$ : 3048529087317888615064010247743995904.0/15 |
| Left In: 253.145+/-0.000   | $\chi^2/\text{NDF}$ : 1980196841930298045035907903943344128.0/10 |

+ sign 258.065+/-0.000  $\chi^2/\text{NDF}$ : 498617836977836  
 All: 251.418+/-0.000  $\chi^2/\text{NDF}$ : 103028886736  
 - sign 244.876+/-0.000  $\chi^2/\text{NDF}$ : 517943608917736

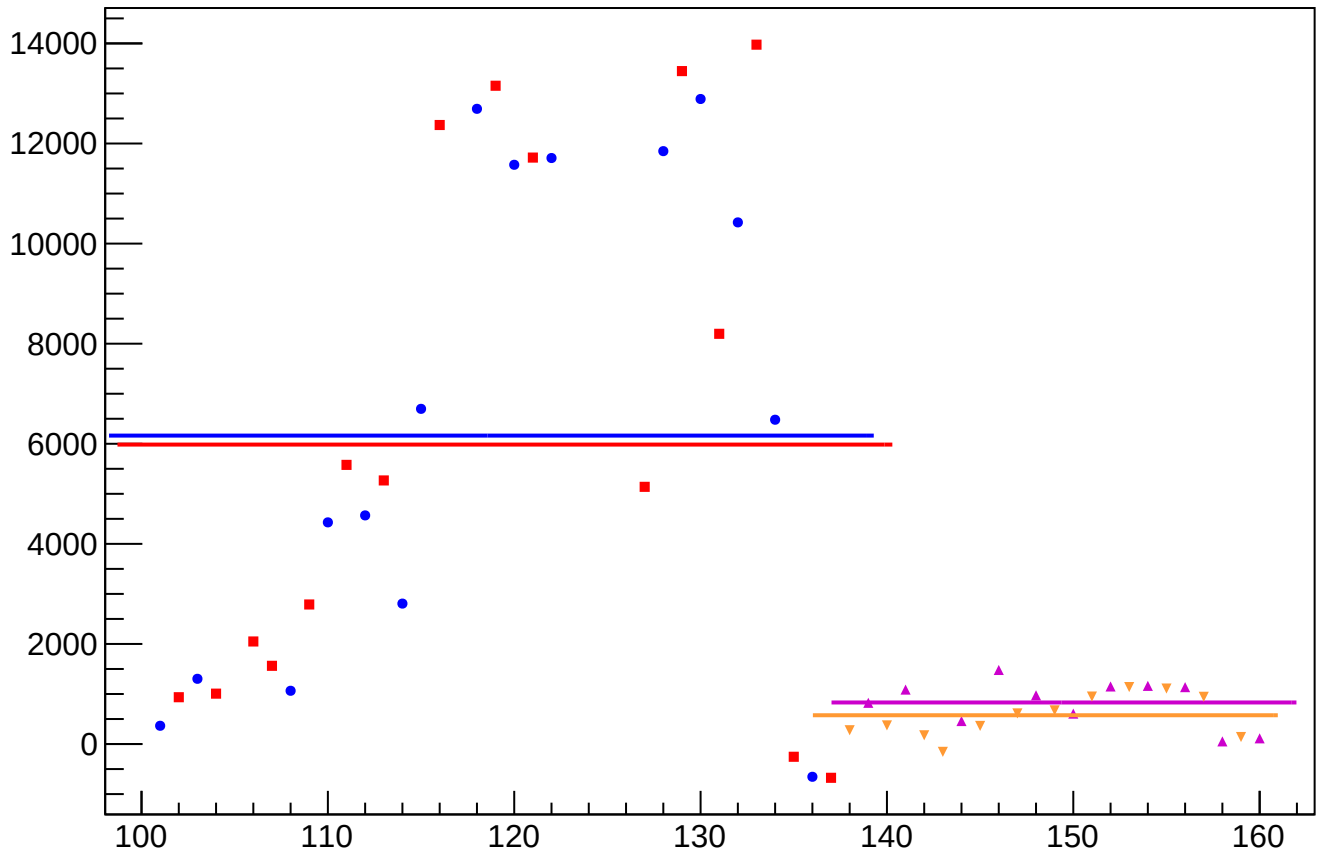
dit\_sam5\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684 $\pm$ 0.000  $\chi^2$ /NDF: 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242 $\pm$ 0.000  $\chi^2$ /NDF: 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145 $\pm$ 0.000  $\chi^2$ /NDF: 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687 $\pm$ 0.000  $\chi^2$ /NDF: 19255287383728205662654022867381911552.0/10

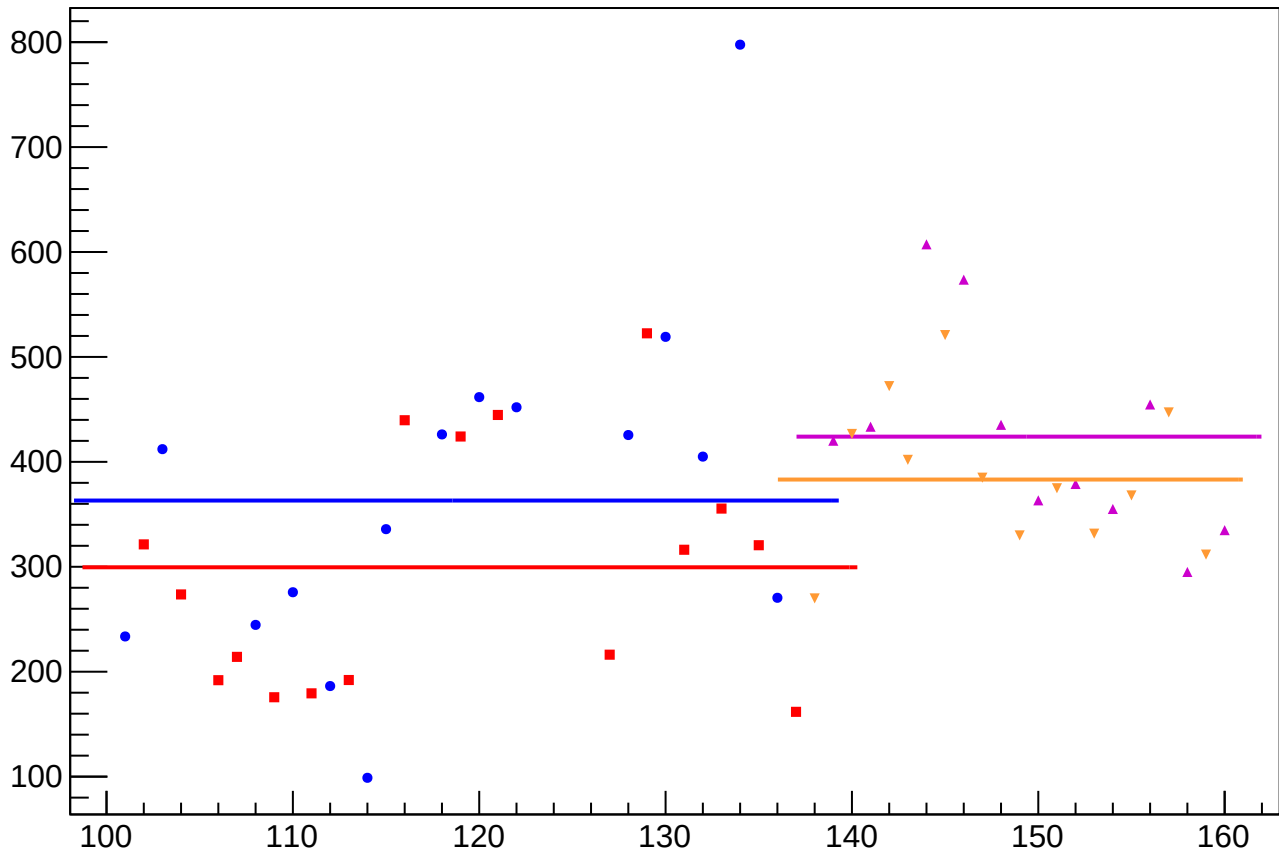


# dit\_sam6\_coil7\_mean vs Slug



Right In: 6163.445+/-0.000  $\chi^2/\text{NDF}$ : 18200622549026770504746300139009854144512.0/14  
 Left Out: 575.396+/-0.000  $\chi^2/\text{NDF}$ : 144552913228066781625188443355564998656.0/11  
 Right Out: 5983.876+/-0.000  $\chi^2/\text{NDF}$ : 17505201913276273559161088764155841740800.0/15  
 Left In: 830.587+/-0.000  $\chi^2/\text{NDF}$ : 172337092403726273197356020615128023040.0/10

dit\_sam6\_coil7\_err\_mean vs Slug



Right In: 363.133+/-0.000  $\chi^2/\text{NDF}$ : 11502791697076456426435998277995331584.0/14

Left Out: 383.139+/-0.000  $\chi^2/\text{NDF}$ : 4300109581526268747828208718091124736.0/11

Right Out: 299.514+/-0.000  $\chi^2/\text{NDF}$ : 7685497318744225218354652828984672256.0/15

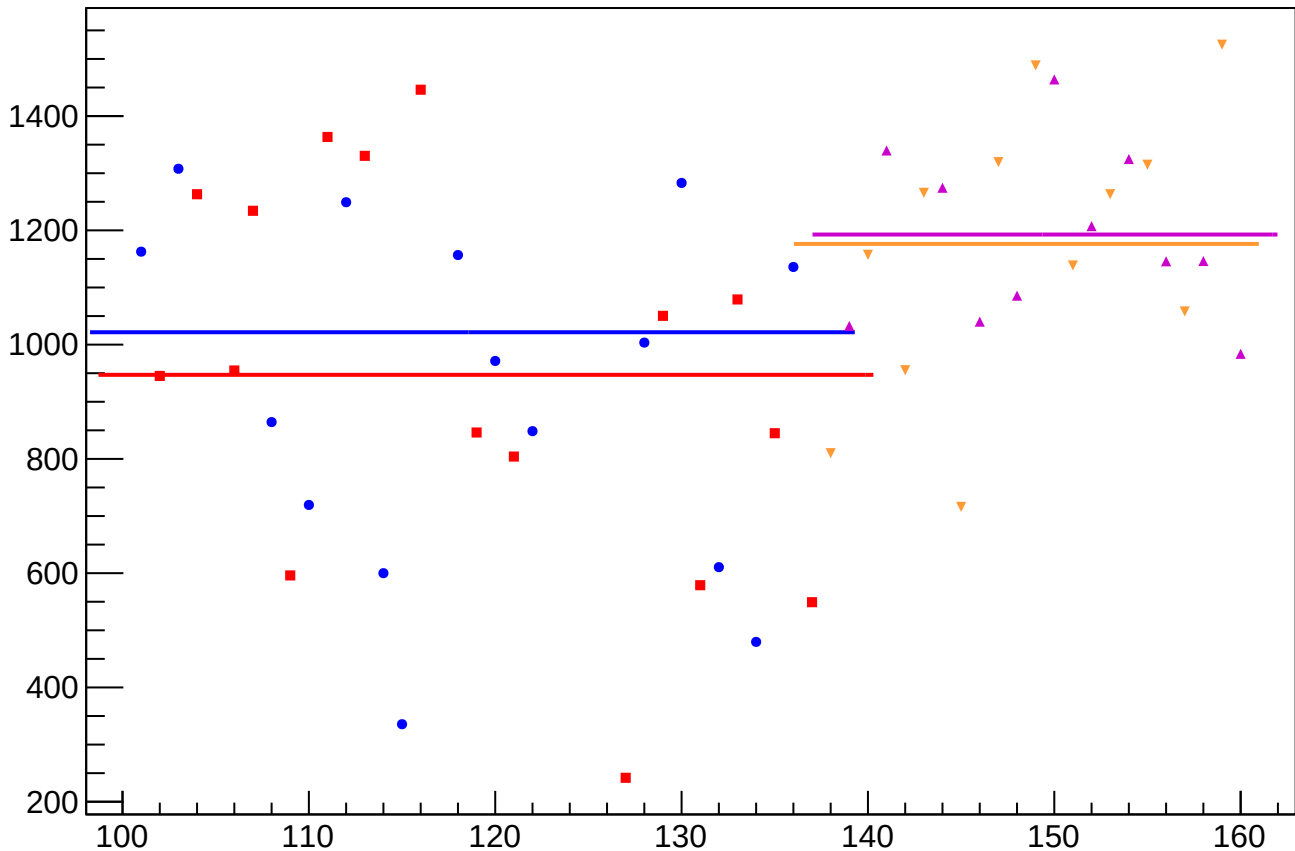
Left In: 424.034+/-0.000  $\chi^2/\text{NDF}$ : 7812894231718086106241094868881375232.0/10

+ sign 374.848+/-0.000  $\chi^2/\text{NDF}$ : 159550066545425

All: 373.328+/-0.000  $\chi^2/\text{NDF}$ : 374668009648

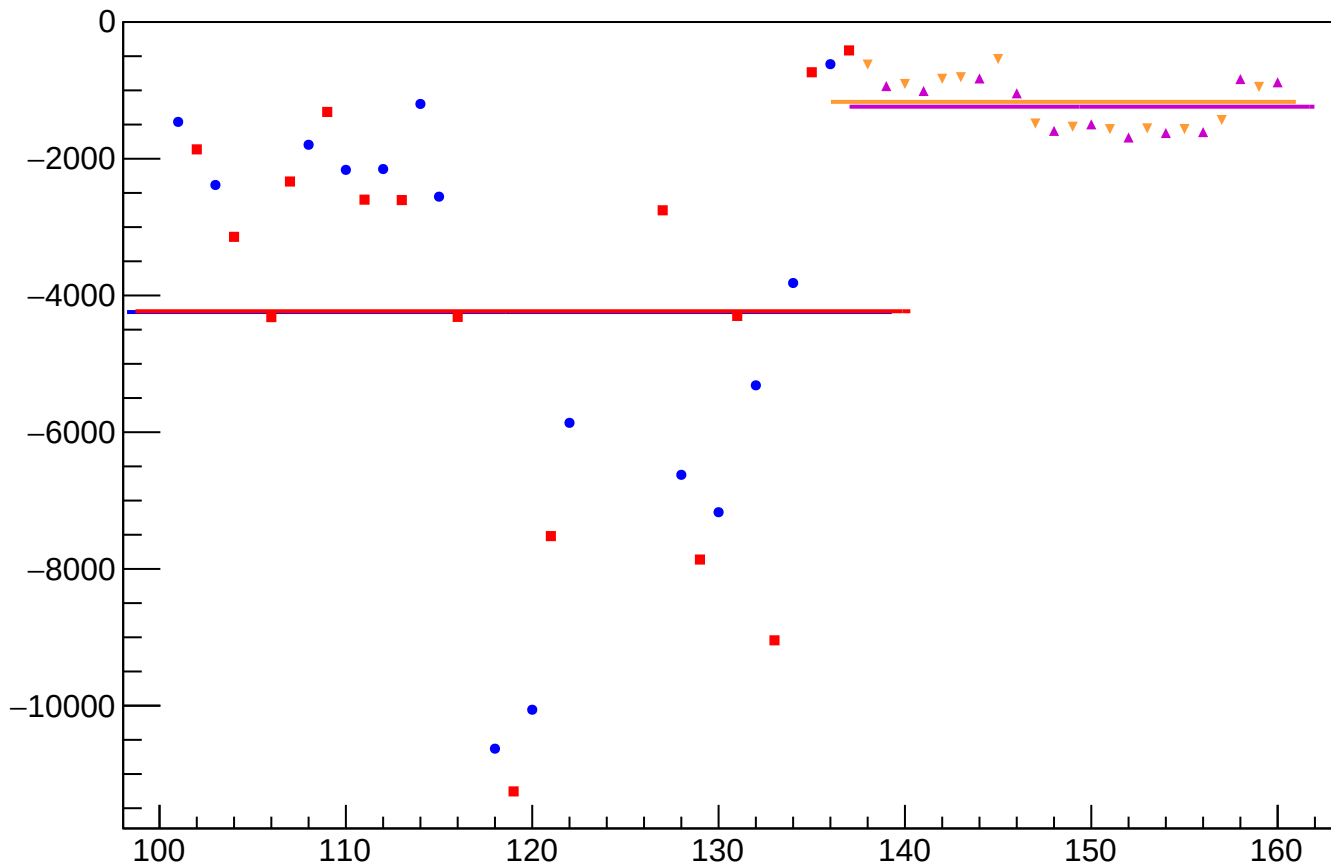
- sign 371.831+/-0.000  $\chi^2/\text{NDF}$ : 215046104489711

dit\_sam6\_coil7\_Ndata\_mean vs Slug



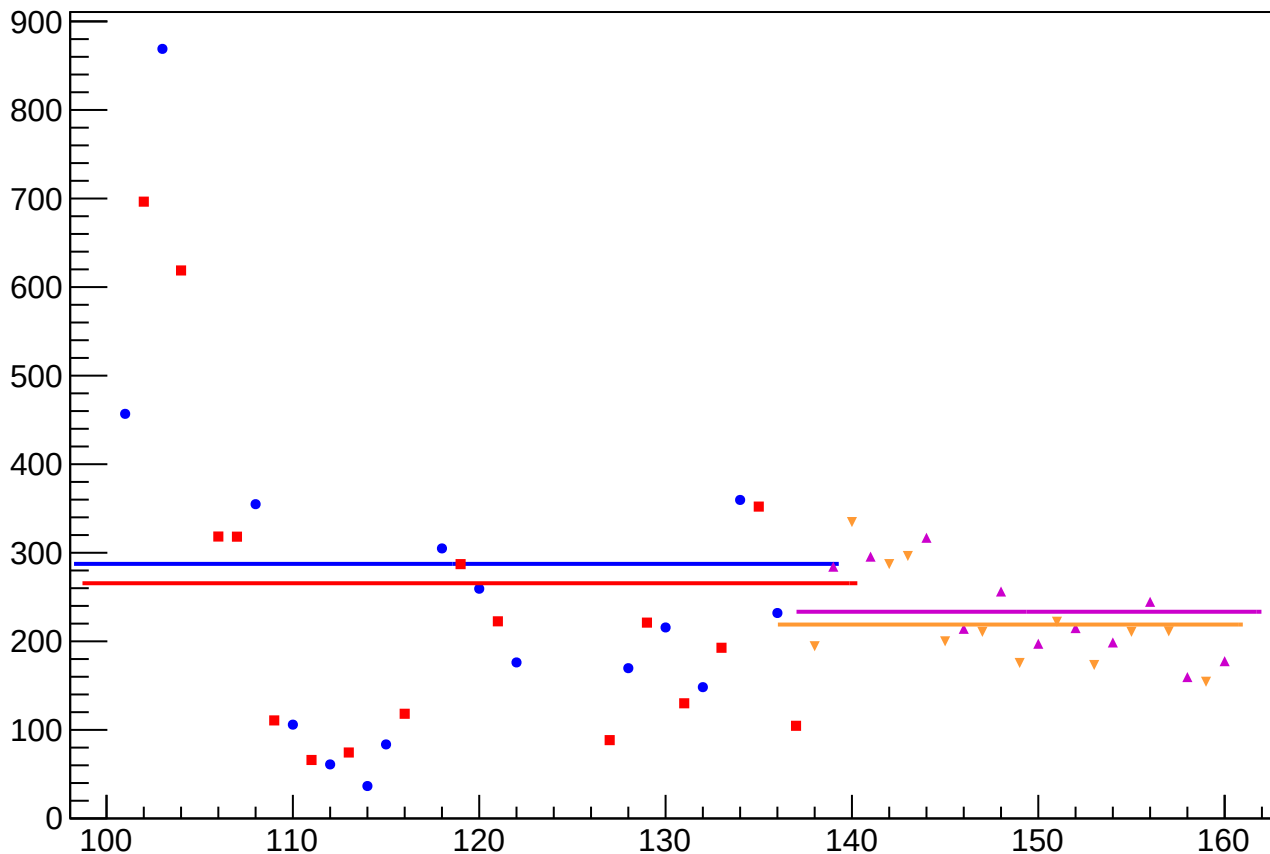
Right In: 1021.684 $\pm$ 0.000  $\chi^2$ /NDF: 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242 $\pm$ 0.000  $\chi^2$ /NDF: 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145 $\pm$ 0.000  $\chi^2$ /NDF: 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687 $\pm$ 0.000  $\chi^2$ /NDF: 19255287383728205662654022867381911552.0/10

dit\_sam7\_coil7\_mean vs Slug



Right In: -4242.174+/-0.000  $\chi^2/\text{NDF}$ : 6783472272174151371145601081742110752768.0/14  
 Left Out: -1167.950+/-0.000  $\chi^2/\text{NDF}$ : 140593267041981181070281289588583432192.0/11  
 Right Out: -4230.978+/-0.000  $\chi^2/\text{NDF}$ : 6682409528103016752204343573740930465792.0/15  
 Left In: -1238.776+/-0.000  $\chi^2/\text{NDF}$ : 111339045659652616720712870833504124928.0/10

dit\_sam7\_coil7\_err\_mean vs Slug



Right In: 287.460+/-0.000  $\chi^2/\text{NDF}$ : 29517044144826155936619151581366976512.0/14

+ sign 247.344+/-0.000  $\chi^2/\text{NDF}$ : 337758050005505

Left Out: 218.953+/-0.000  $\chi^2/\text{NDF}$ : 2475213997163419950481199473566416896.0/11

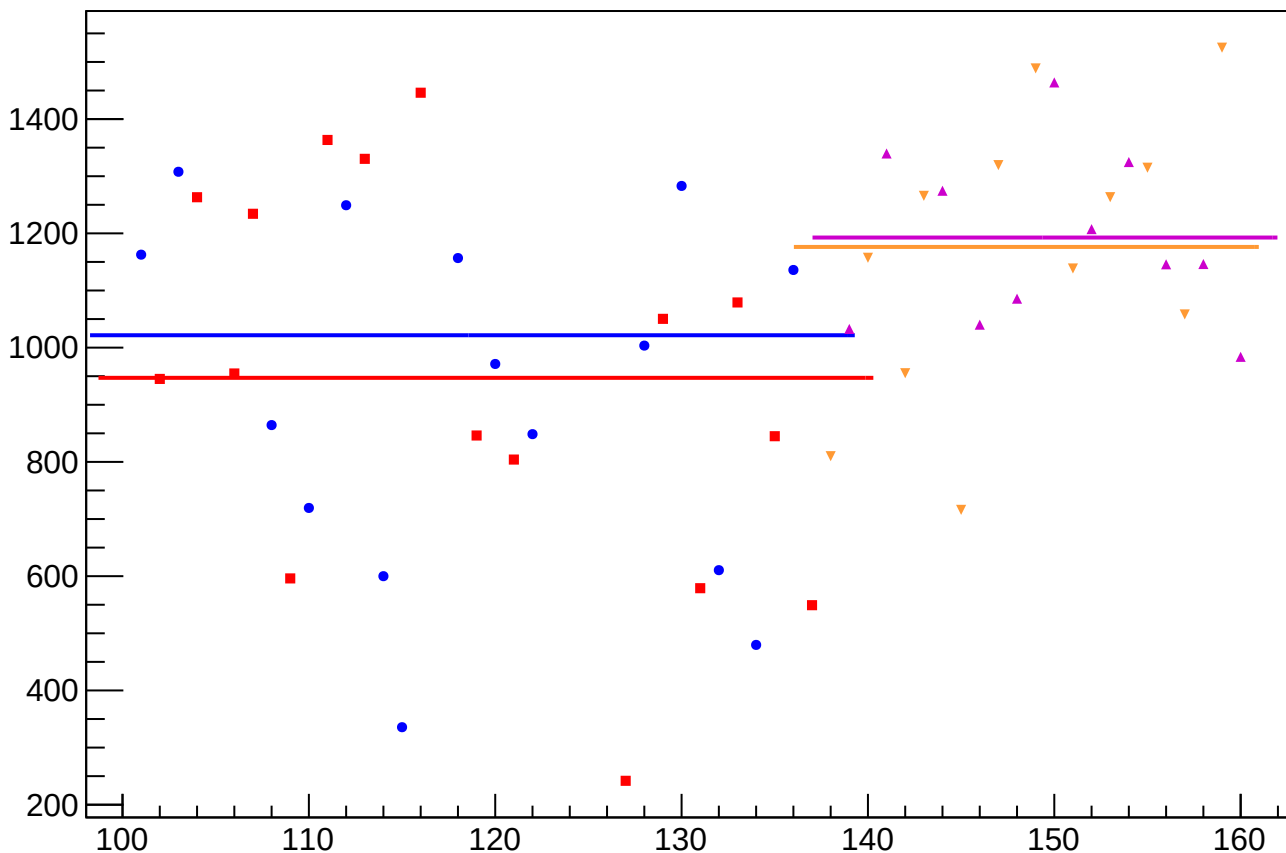
All: 247.118+/-0.000  $\chi^2/\text{NDF}$ : 621921047324

Right Out: 265.593+/-0.000  $\chi^2/\text{NDF}$ : 25843263106329059274985499259066908672.0/15

- sign 246.895+/-0.000  $\chi^2/\text{NDF}$ : 284161399961778

Left In: 233.397+/-0.000  $\chi^2/\text{NDF}$ : 2171341737989359237753599766499950592.0/10

dit\_sam7\_coil7\_Ndata\_mean vs Slug



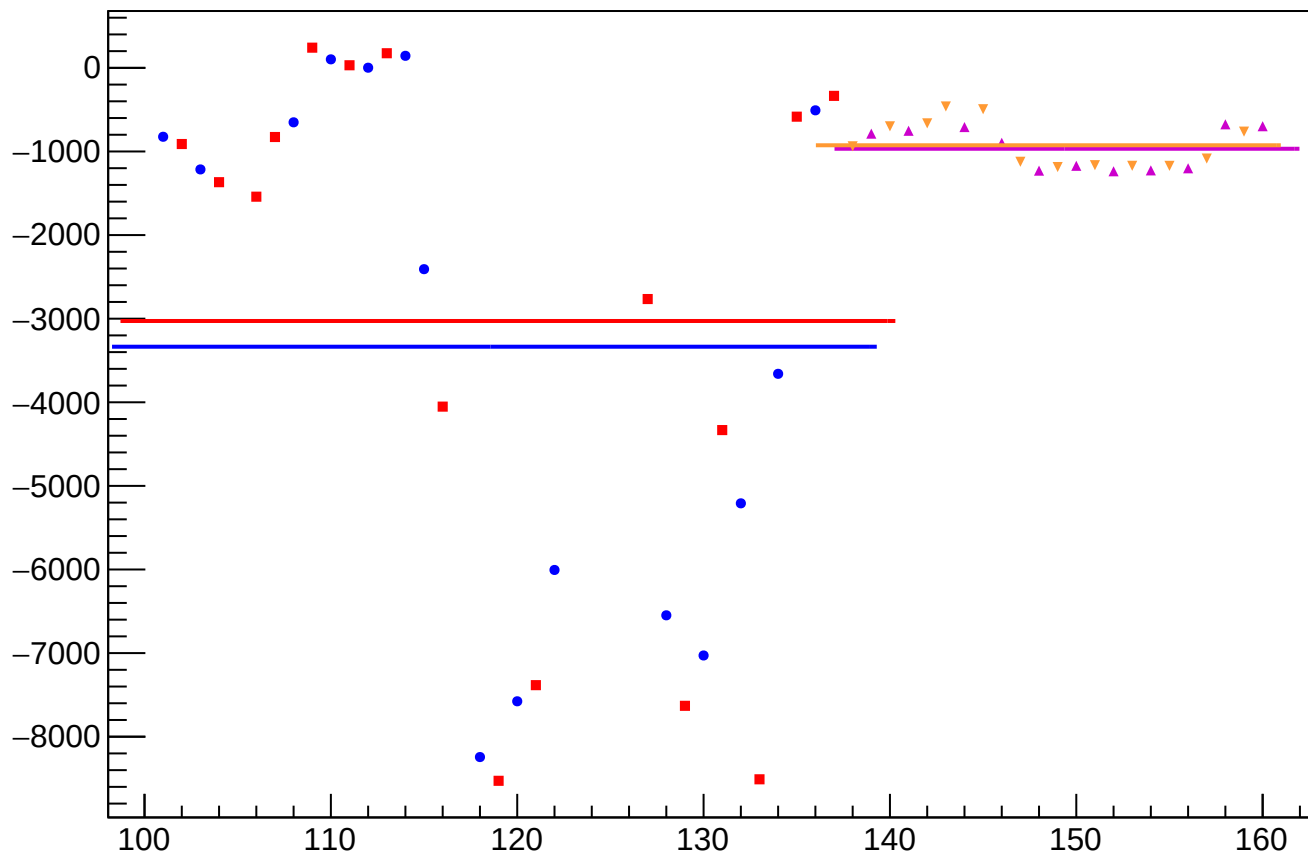
Right In: 1021.684+/-0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14

Left Out: 1176.242+/-0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11

Right Out: 947.145+/-0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15

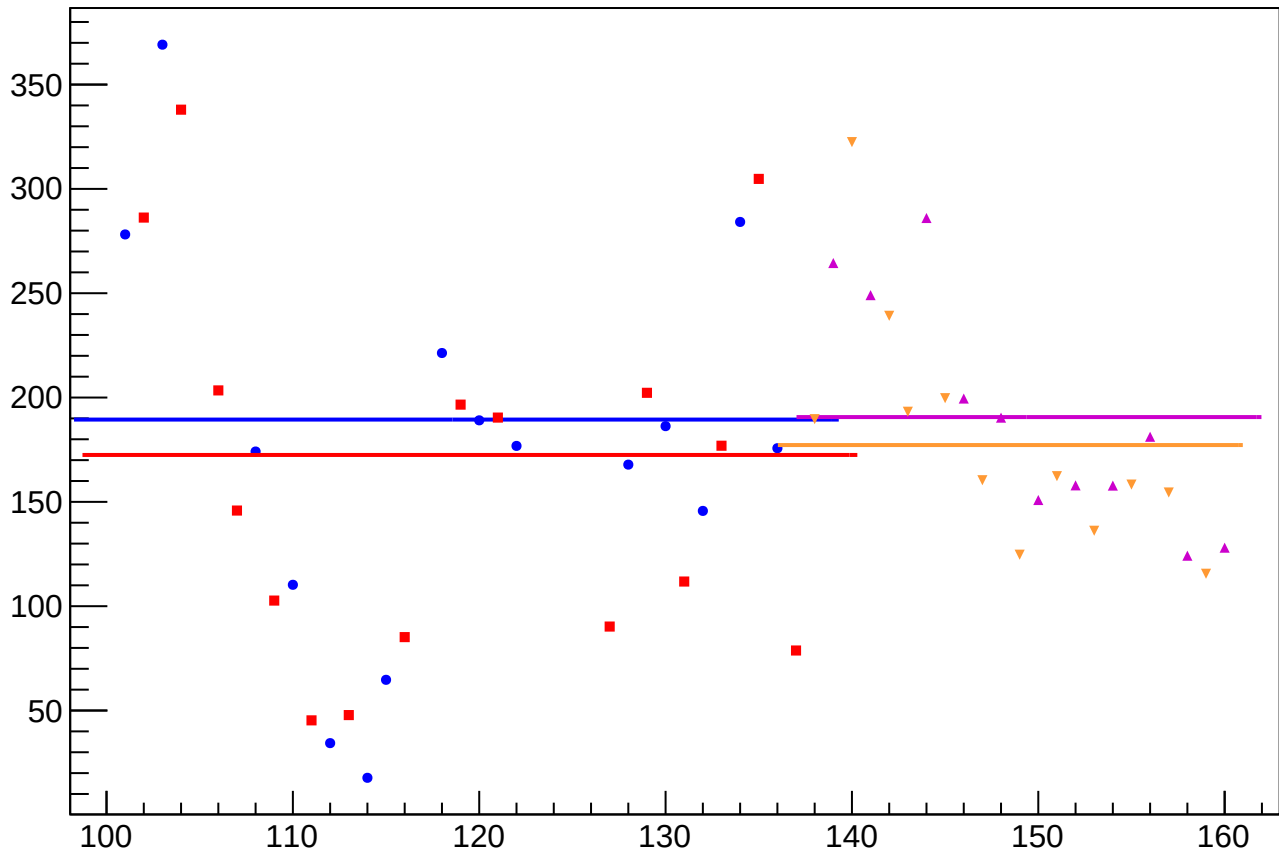
Left In: 1192.687+/-0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10

# dit\_sam8\_coil7\_mean vs Slug



Right In:  $-3335.273 \pm 0.000$   $\chi^2/\text{NDF}$ : 6338087251589637529030075517152423575552.0/14  
 Left Out:  $-925.824 \pm 0.000$   $\chi^2/\text{NDF}$ : 64067799071771654441544775824759062528.0/11  
 Right Out:  $-3027.603 \pm 0.000$   $\chi^2/\text{NDF}$ : 7086157086694396583090903767581326311424.0/15  
 Left In:  $-967.568 \pm 0.000$   $\chi^2/\text{NDF}$ : 51461881619401718567497787720865939456.0/10

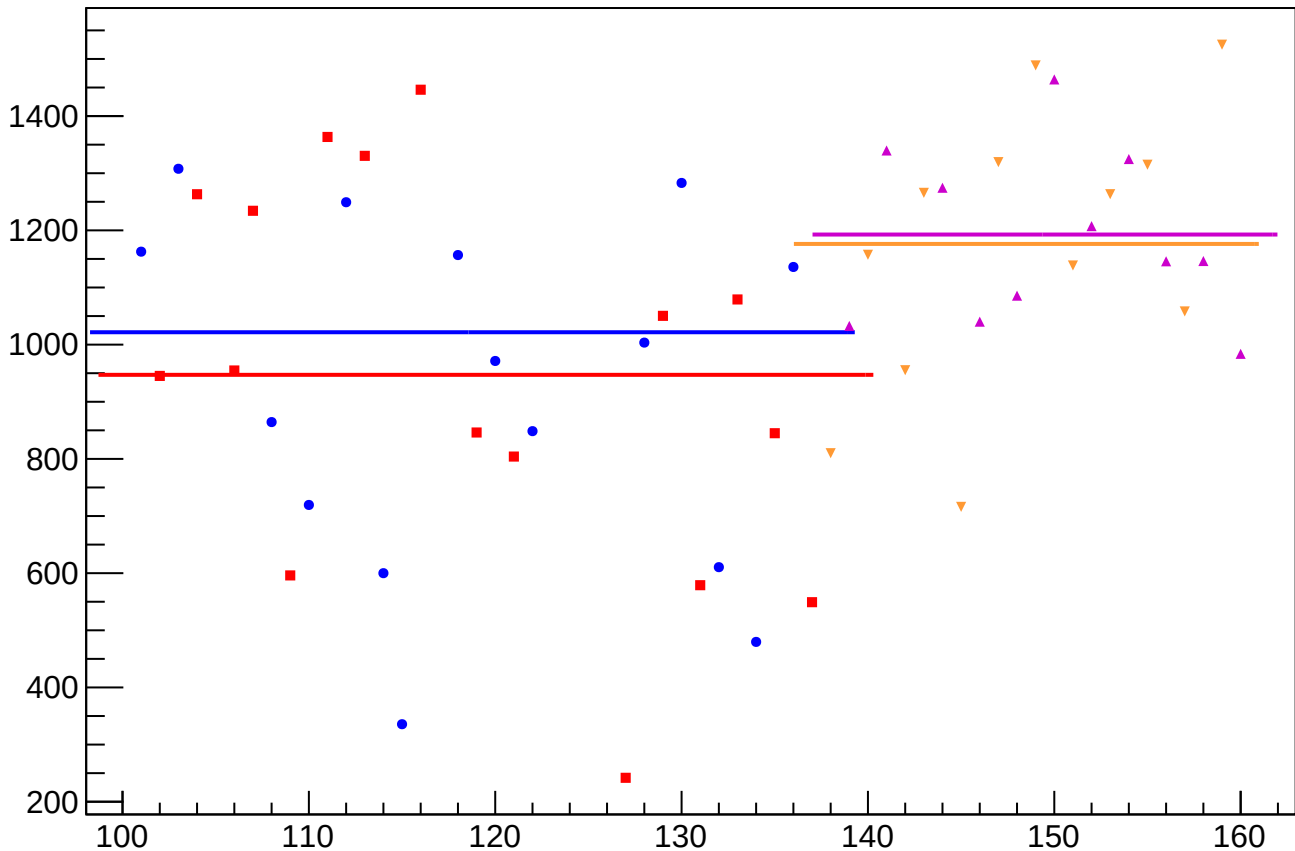
dit\_sam8\_coil7\_err\_mean vs Slug



Right In: 189.442 $\pm$ 0.000  $\chi^2$ /NDF: 4707234253929700721726064108794544128.0/14  
 Left Out: 177.229 $\pm$ 0.000  $\chi^2$ /NDF: 2763689981014700365307320120704499712.0/11  
 Right Out: 172.485 $\pm$ 0.000  $\chi^2$ /NDF: 5594813408996728261938711470404534272.0/15  
 Left In: 190.641 $\pm$ 0.000  $\chi^2$ /NDF: 2536070386684067132001548898091925504.0/10

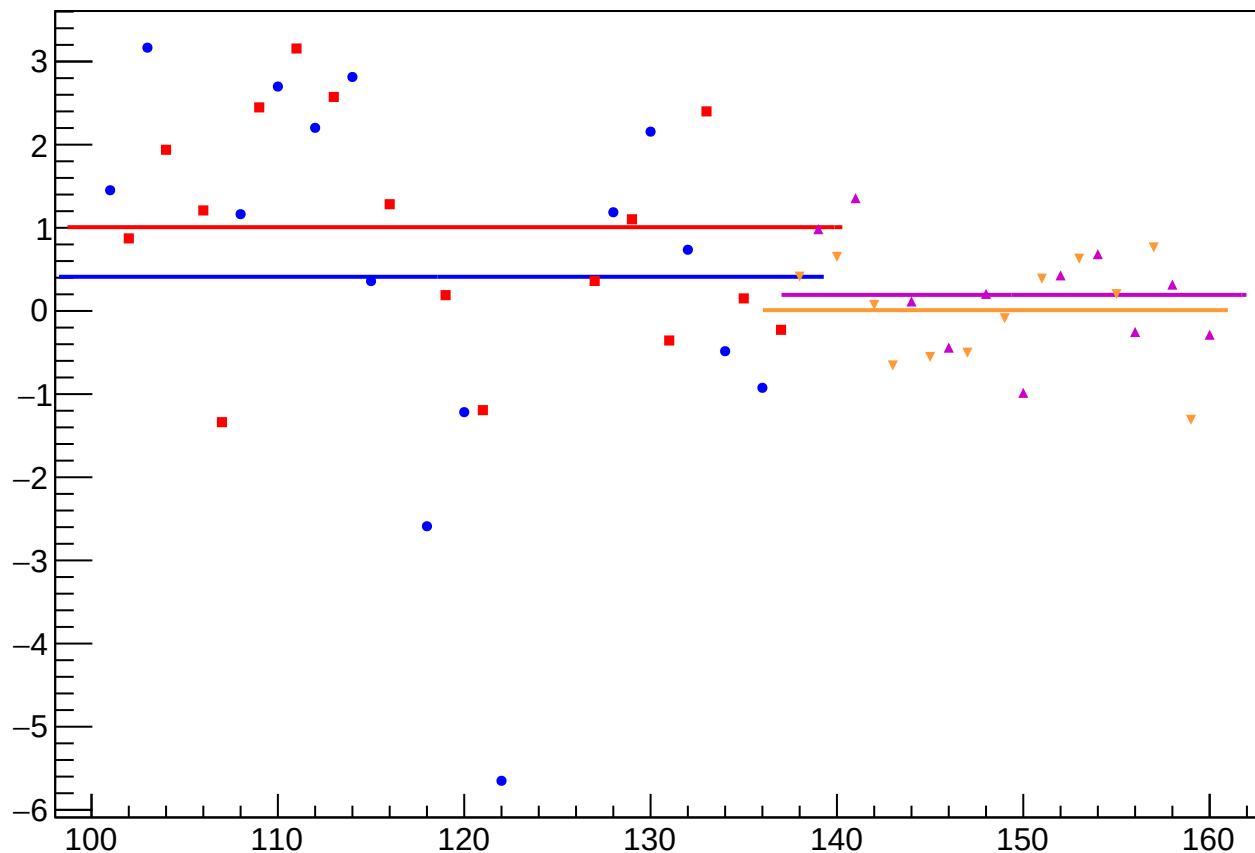


dit\_sam8\_coil7\_Ndata\_mean vs Slug



Right In: 1021.684 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 40493101470870278397836276403592495104.0/14  
 Left Out: 1176.242 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 53355525796592022882385023198883217408.0/11  
 Right Out: 947.145 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 67784656011936521511169668028018196480.0/15  
 Left In: 1192.687 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 19255287383728205662654022867381911552.0/10  
 All: 1100.879 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 21371922767  
 + sign 1112.188 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 10292693819422  
 - sign 1089.748 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 11039486982366

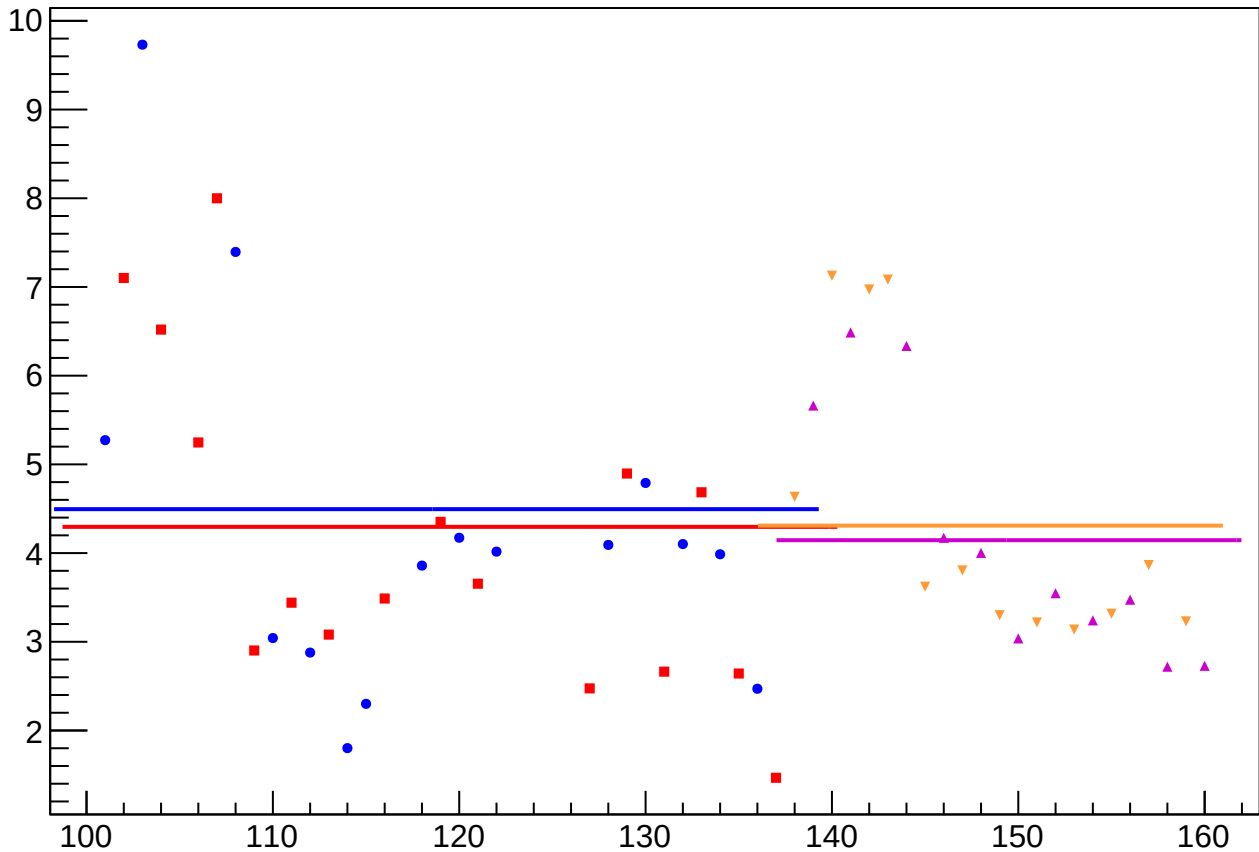
dit\_4aX\_coil4\_mean vs Slug



|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Right In: 0.411+/-0.000  | $\chi^2/\text{NDF}$ : 3385573506255563170053089820409856.0/14 |
| Left Out: 0.010+/-0.000  | $\chi^2/\text{NDF}$ : 353620786406369007663734375579648.0/11  |
| Right Out: 1.008+/-0.000 | $\chi^2/\text{NDF}$ : 1128402228144096394498047410700288.0/15 |
| Left In: 0.193+/-0.000   | $\chi^2/\text{NDF}$ : 386133523330033860307880234713088.0/10  |

+ sign 0.176+/-0.000  $\chi^2/\text{NDF}$ : 38004936513775919  
 All: 0.357+/-0.000  $\chi^2/\text{NDF}$ : 56735972380782  
 - sign 0.535+/-0.000  $\chi^2/\text{NDF}$ : 17715106696706138

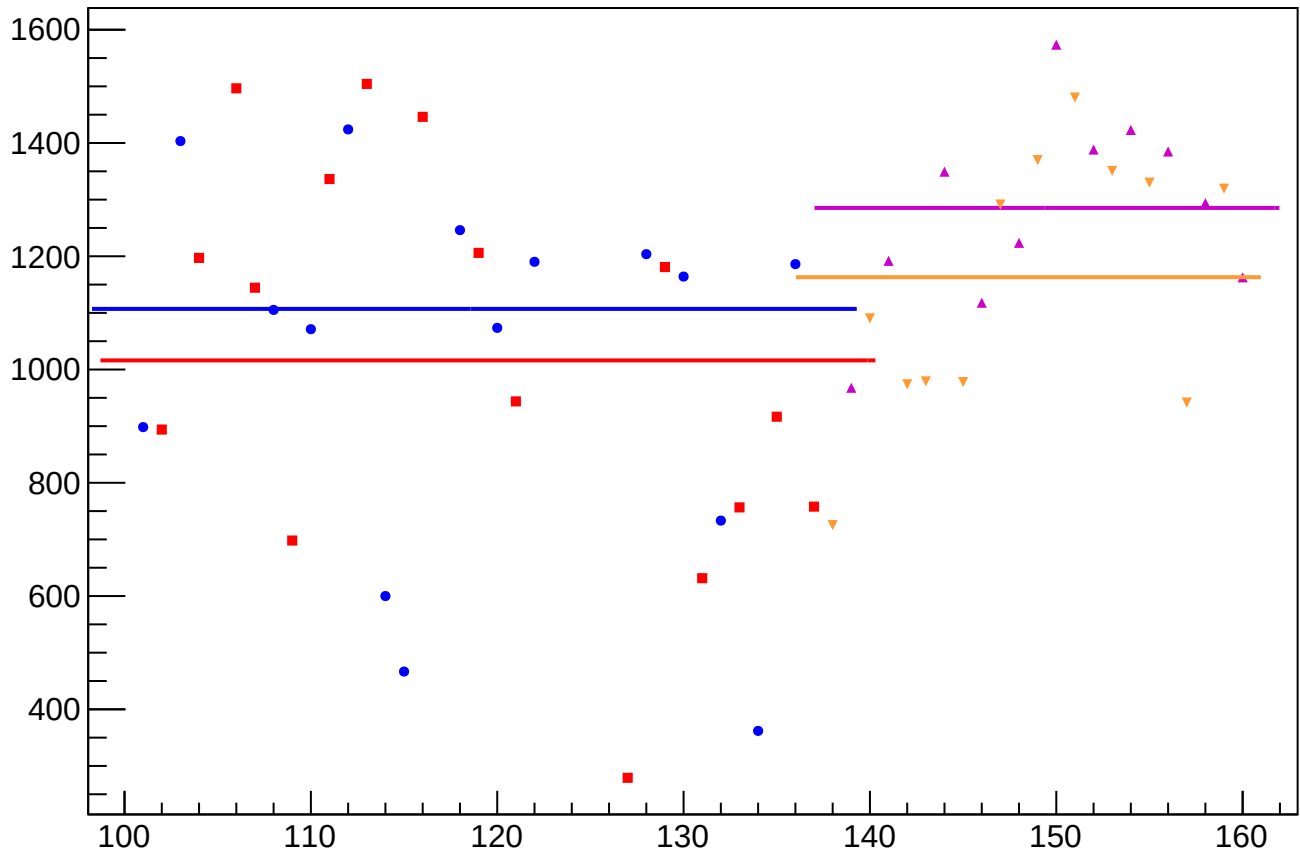
dit\_4aX\_coil4\_err\_mean vs Slug



|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Right In: 4.495 $\pm$ 0.000  | $\chi^2$ /NDF: 2742240072441097531500728791597056.0/14 |
| Left Out: 4.310 $\pm$ 0.000  | $\chi^2$ /NDF: 2040592298318690802405823572082688.0/11 |
| Right Out: 4.296 $\pm$ 0.000 | $\chi^2$ /NDF: 2011925707062051890381007475441664.0/15 |
| Left In: 4.145 $\pm$ 0.000   | $\chi^2$ /NDF: 1645942604303349608571849827942400.0/10 |

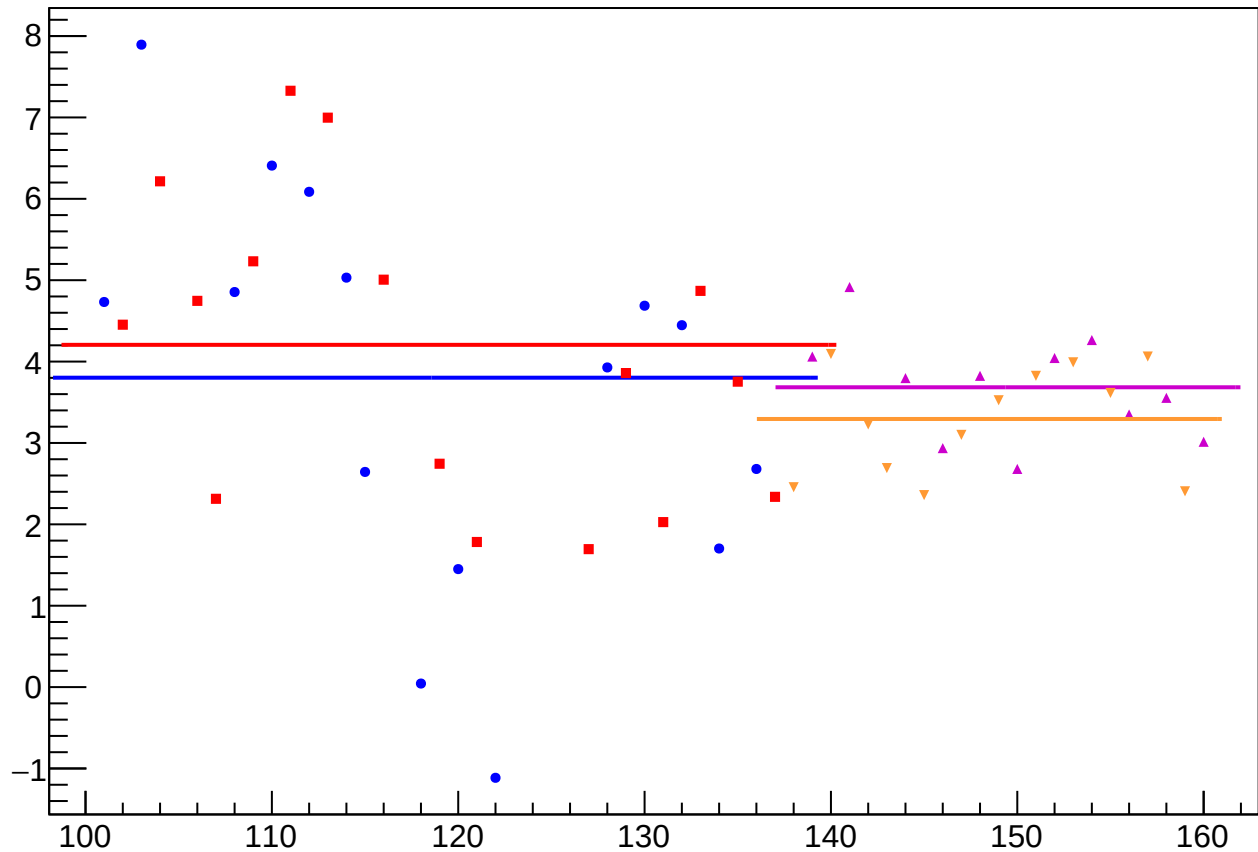
+ sign 4.387 $\pm$ 0.000  $\chi^2$ /NDF: 47959123890212102  
 All: 4.297 $\pm$ 0.000  $\chi^2$ /NDF: 84876041077728  
 - sign 4.208 $\pm$ 0.000  $\chi^2$ /NDF: 36666176911582785

dit\_4aX\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052+/-0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051+/-0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106+/-0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364+/-0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10

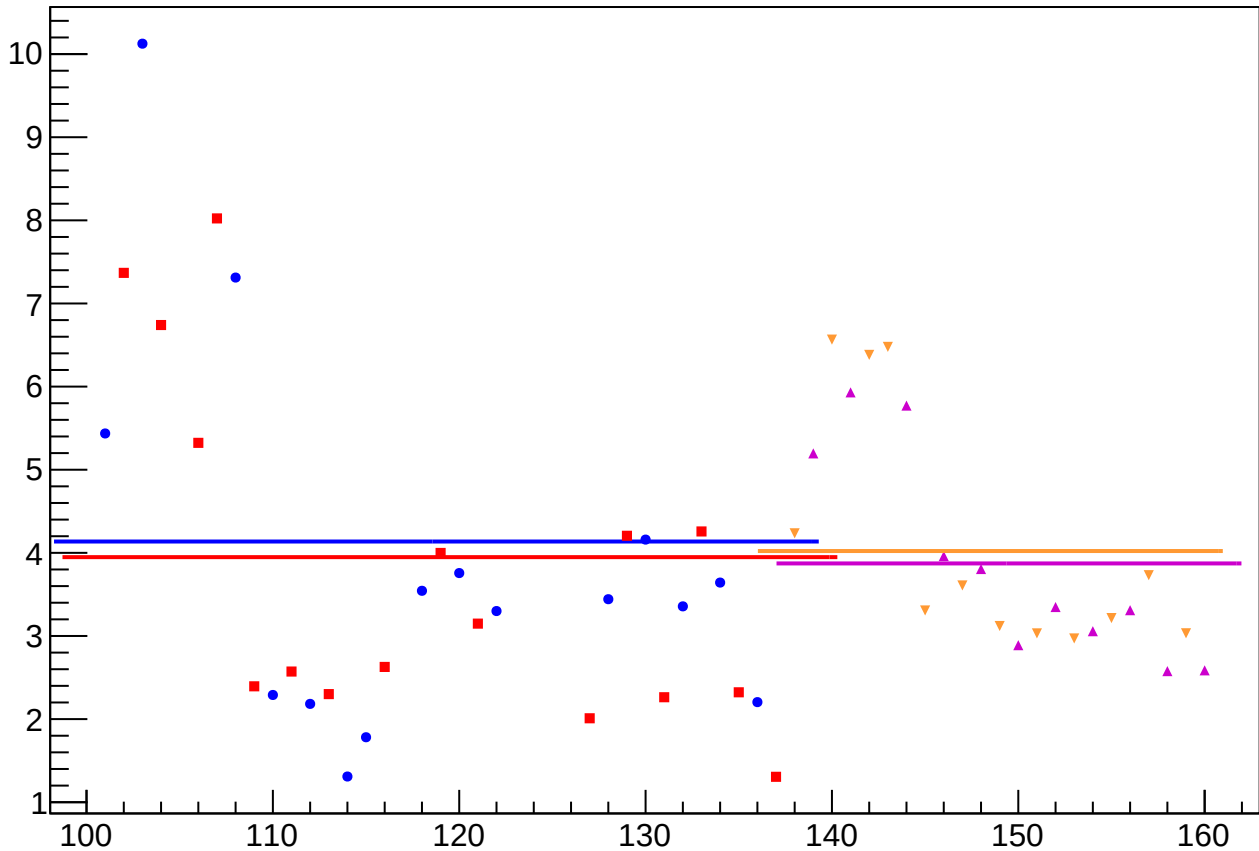
dit\_4eX\_coil4\_mean vs Slug



|                          |                                                               |
|--------------------------|---------------------------------------------------------------|
| Right In: 3.802+/-0.000  | $\chi^2/\text{NDF}$ : 3795476074398338930564700657680384.0/14 |
| Left Out: 3.295+/-0.000  | $\chi^2/\text{NDF}$ : 390847239589673517583250386583552.0/11  |
| Right Out: 4.206+/-0.000 | $\chi^2/\text{NDF}$ : 2096427813341454573332265183477760.0/15 |
| Left In: 3.684+/-0.000   | $\chi^2/\text{NDF}$ : 366001419656422310601850072596480.0/10  |

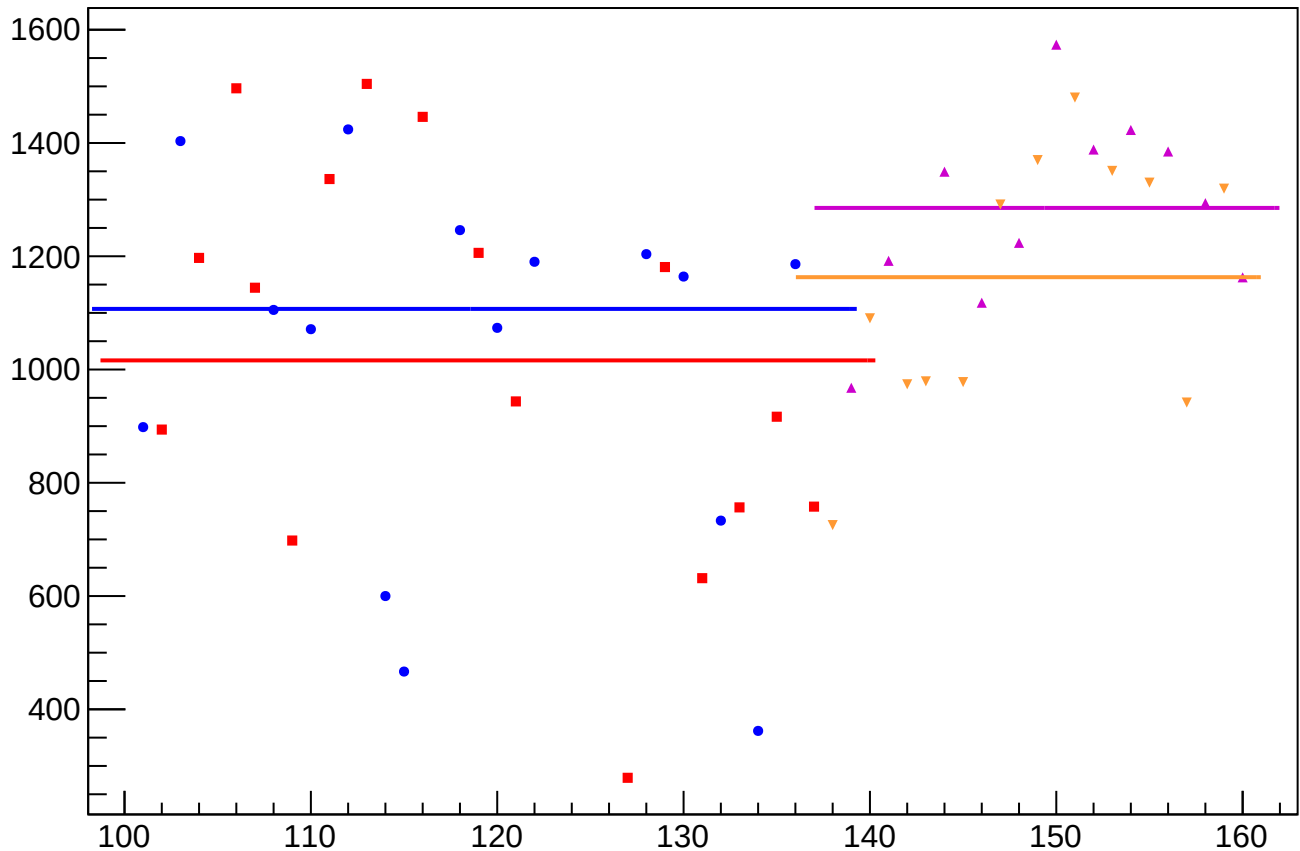
+ sign 3.505+/-0.000  $\chi^2/\text{NDF}$ : 42841263037328413  
 All: 3.705+/-0.000  $\chi^2/\text{NDF}$ : 6976869183465  
 - sign 3.903+/-0.000  $\chi^2/\text{NDF}$ : 25677839447530972

dit\_4eX\_coil4\_err\_mean vs Slug



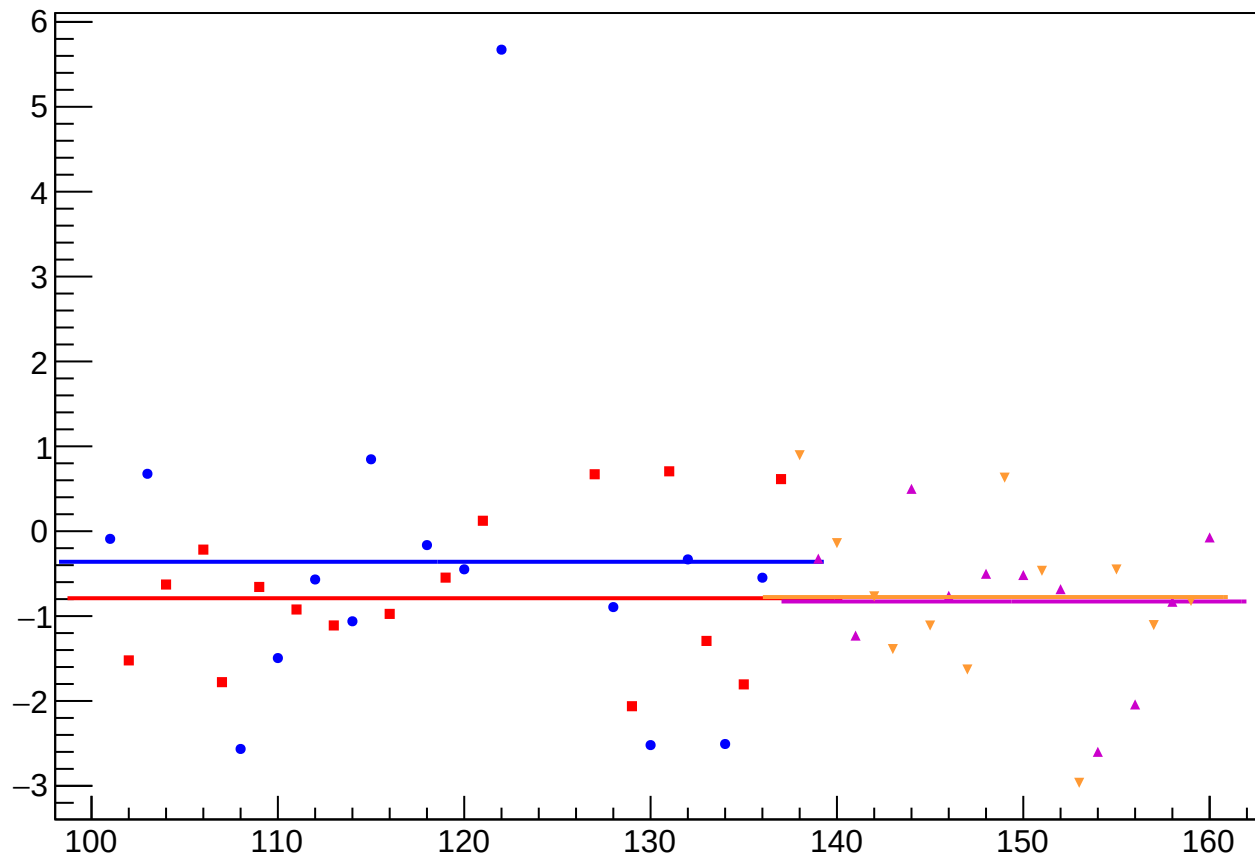
Right In:  $4.136 \pm 0.000$   $\chi^2/\text{NDF}$ : 3507600624388663919898505496231936.0/14  
 Left Out:  $4.022 \pm 0.000$   $\chi^2/\text{NDF}$ : 1623918055405441678672358958694400.0/11  
 Right Out:  $3.948 \pm 0.000$   $\chi^2/\text{NDF}$ : 2670176783942302028345551100051456.0/15  
 Left In:  $3.873 \pm 0.000$   $\chi^2/\text{NDF}$ : 1278598291391127694323835331411968.0/10

dit\_4eX\_coil4\_Ndata\_mean vs Slug



|                                 |                                                                   |                             |                                      |
|---------------------------------|-------------------------------------------------------------------|-----------------------------|--------------------------------------|
| Right In: 1107.052 $\pm$ 0.000  | $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14 | + sign 1139.844 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 87570338044863 |
| Left Out: 1163.051 $\pm$ 0.000  | $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11 | All: 1156.292 $\pm$ 0.000   | $\chi^2/\text{NDF}$ : 21306550198    |
| Right Out: 1016.106 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15 | - sign 1172.482 $\pm$ 0.000 | $\chi^2/\text{NDF}$ : 12465444911625 |
| Left In: 1285.364 $\pm$ 0.000   | $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10 |                             |                                      |

dit\_11X12X\_coil4\_mean vs Slug



Right In: -0.360+/-0.000  $\chi^2/\text{NDF}$ : 2180256348790896849346212178952192.0/14

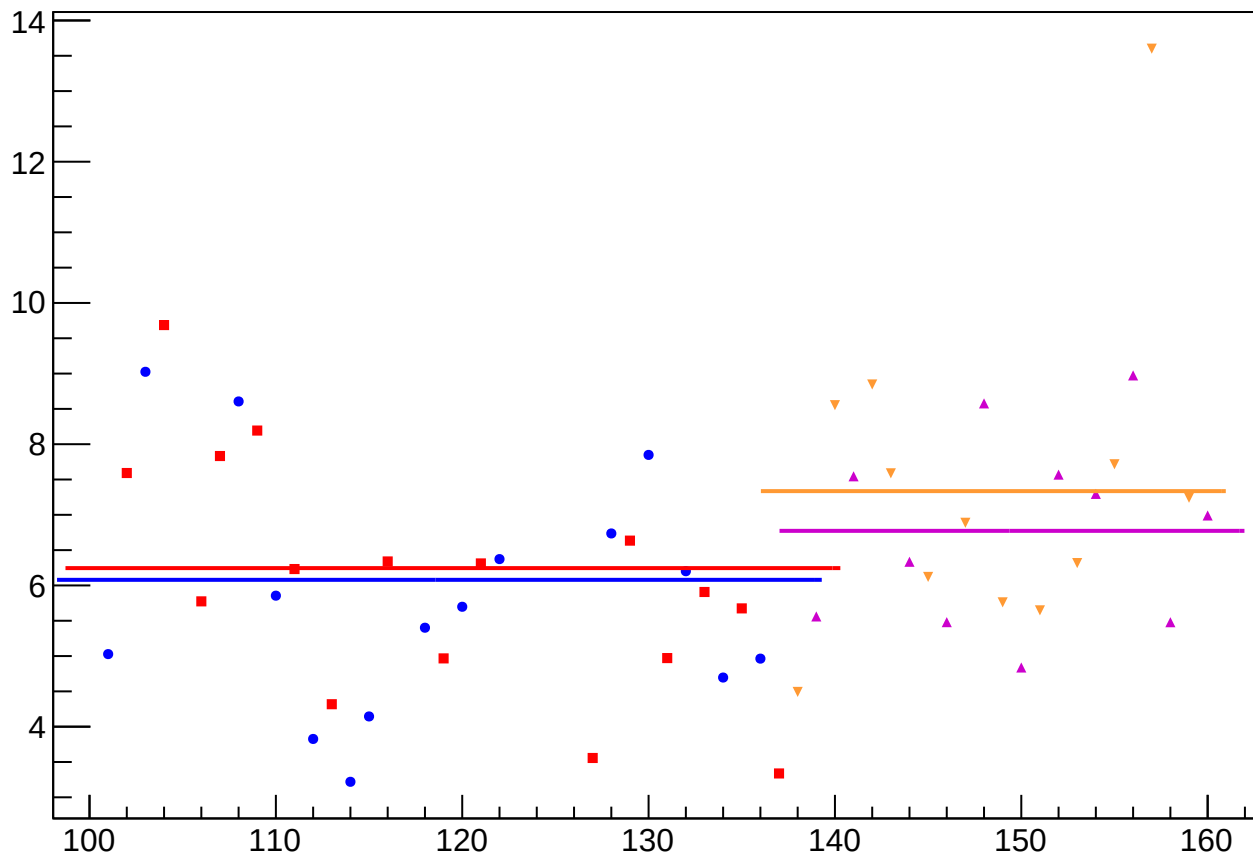
Left Out: -0.776+/-0.000  $\chi^2/\text{NDF}$ : 939757082215191020614021048958976.0/11

Right Out: -0.790+/-0.000  $\chi^2/\text{NDF}$ : 463078369073343959803422903894016.0/15

Left In: -0.828+/-0.000  $\chi^2/\text{NDF}$ : 650173977459122524537180454387712.0/10

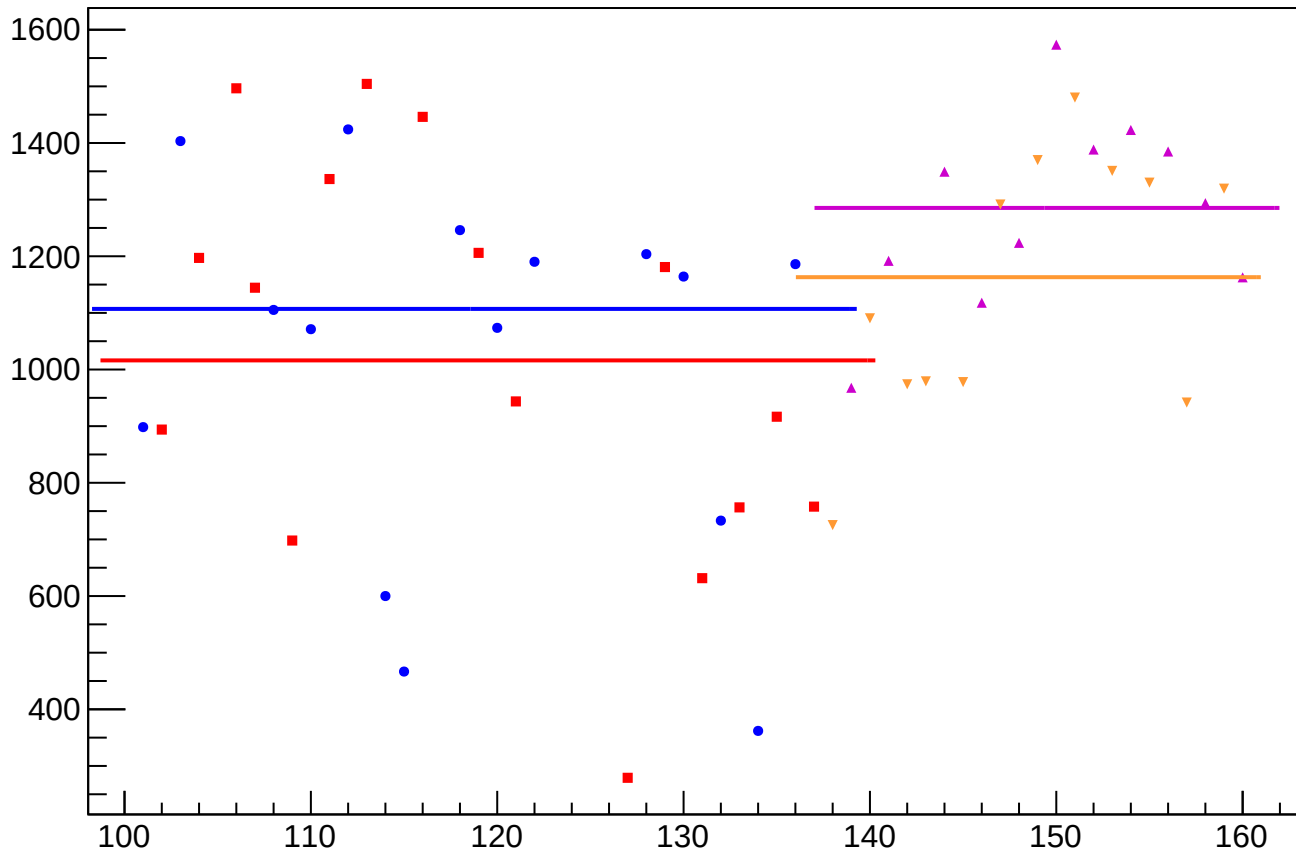


dit\_11X12X\_coil4\_err\_mean vs Slug



|                          |                                                               |                      |                                         |
|--------------------------|---------------------------------------------------------------|----------------------|-----------------------------------------|
| Right In: 6.079+/-0.000  | $\chi^2/\text{NDF}$ : 1590295171022705157509900448825344.0/14 | + sign 6.815+/-0.000 | $\chi^2/\text{NDF}$ : 68155259084856645 |
| Left Out: 7.336+/-0.000  | $\chi^2/\text{NDF}$ : 4625628833201139991267353991053312.0/11 | All: 6.682+/-0.000   | $\chi^2/\text{NDF}$ : 10340427820903    |
| Right Out: 6.245+/-0.000 | $\chi^2/\text{NDF}$ : 1816529163105006938510976985595904.0/15 | - sign 6.552+/-0.000 | $\chi^2/\text{NDF}$ : 34702547921187787 |
| Left In: 6.773+/-0.000   | $\chi^2/\text{NDF}$ : 1545880653062872635060205832372224.0/10 |                      |                                         |

dit\_11X12X\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052+/-0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14

Left Out: 1163.051+/-0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11

Right Out: 1016.106+/-0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15

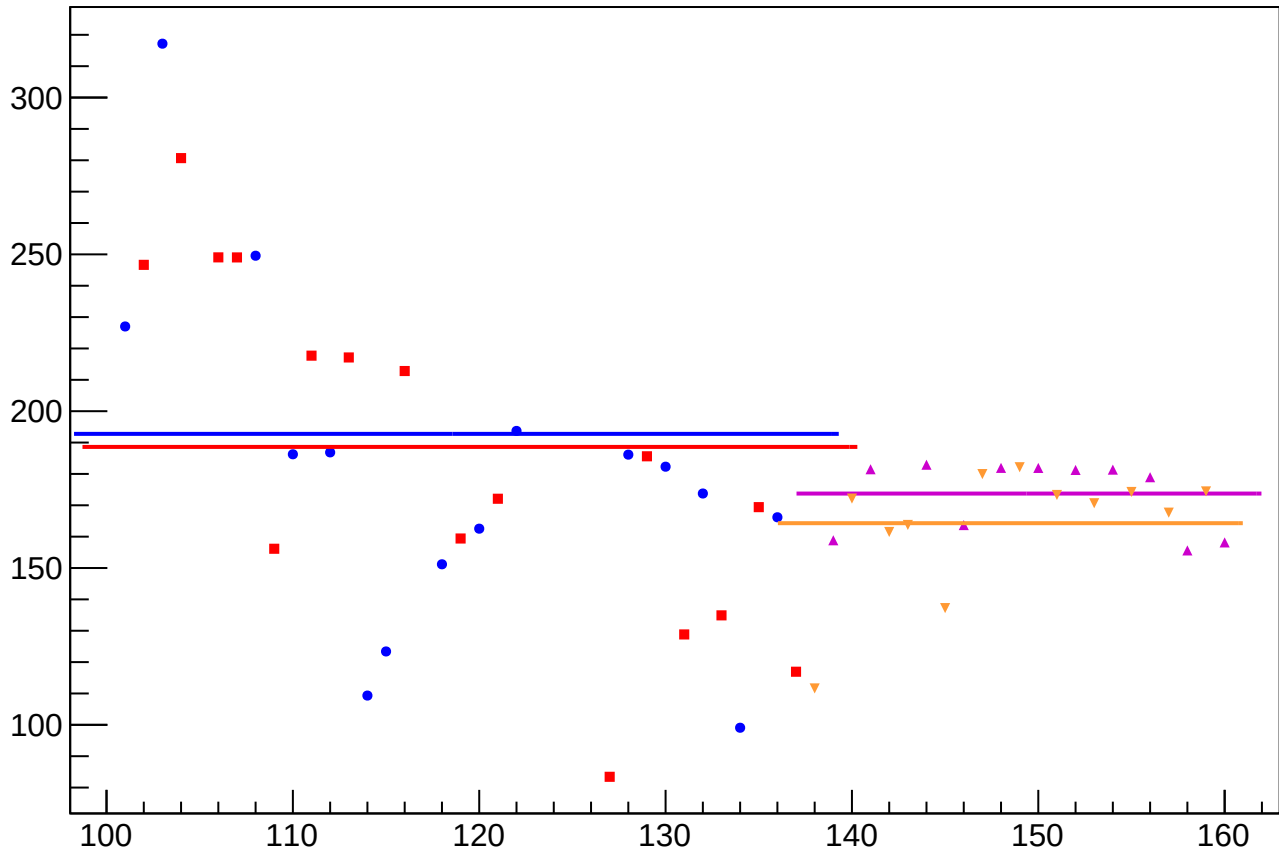
Left In: 1285.364+/-0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10

+ sign 1139.844+/-0.000  $\chi^2/\text{NDF}$ : 87570338044863

All: 1156.292+/-0.000  $\chi^2/\text{NDF}$ : 21306550198

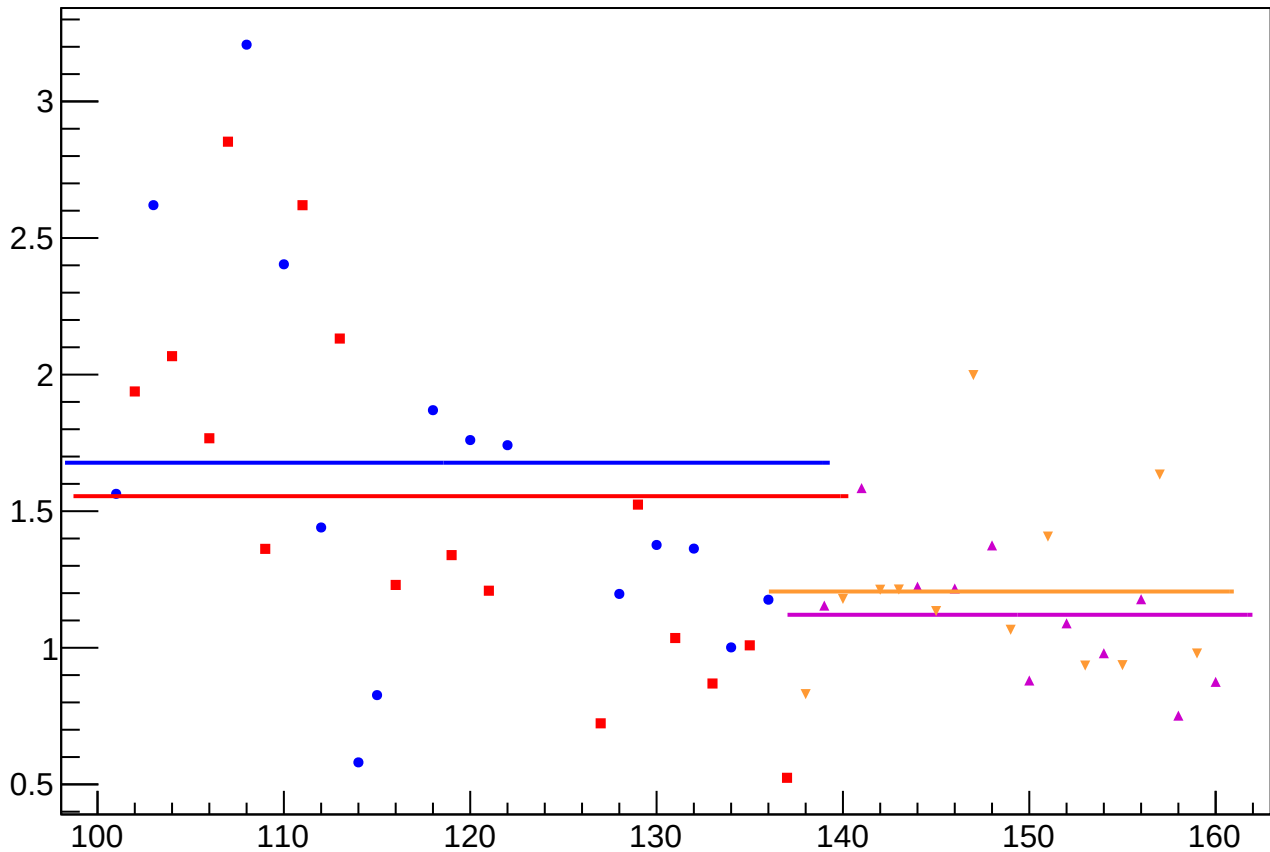
- sign 1172.482+/-0.000  $\chi^2/\text{NDF}$ : 12465444911625

# dit\_4aY\_coil4\_mean vs Slug



Right In:  $192.771 \pm 0.000$   $\chi^2/\text{NDF}$ : 1640576279746948433391816936236515328.0/14  
 Left Out:  $164.293 \pm 0.000$   $\chi^2/\text{NDF}$ : 353830120963940060605794212550541312.0/11  
 Right Out:  $188.612 \pm 0.000$   $\chi^2/\text{NDF}$ : 1922342257287674563344204730019610624.0/15  
 Left In:  $173.738 \pm 0.000$   $\chi^2/\text{NDF}$ : 107568156923900649458795541002452992.0/10

dit\_4aY\_coil4\_err\_mean vs Slug



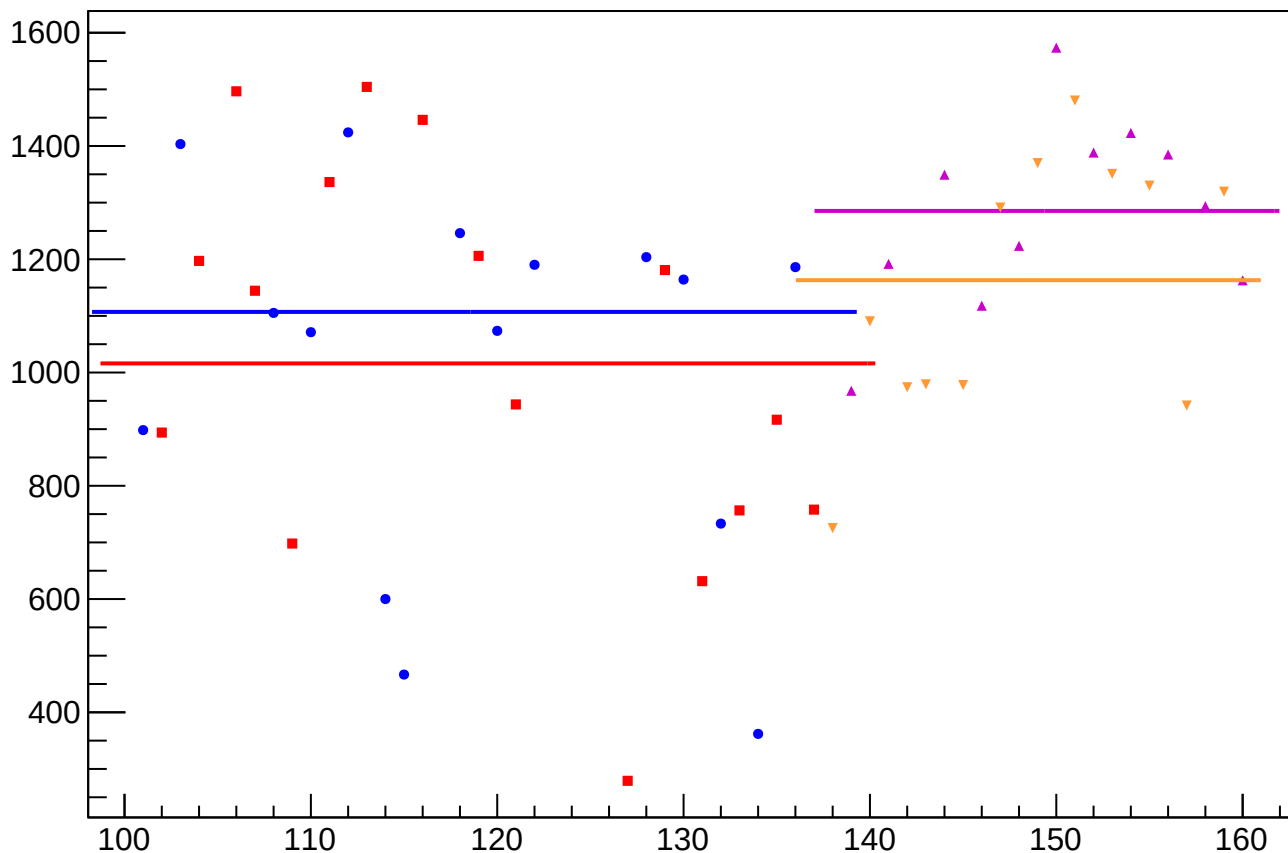
Right In: 1.677 $\pm$ 0.000  $\chi^2$ /NDF: 241879924044788593292791559225344.0/14

Left Out: 1.206 $\pm$ 0.000  $\chi^2$ /NDF: 95869624128559666267627066490880.0/11

Right Out: 1.555 $\pm$ 0.000  $\chi^2$ /NDF: 255645951433890296827677195108352.0/15

Left In: 1.121 $\pm$ 0.000  $\chi^2$ /NDF: 48374896563348957372285351624704.0/10

dit\_4aY\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 $\pm$ 0.000  $\chi^2$ /NDF: 40633831787810179240542210398269472768.0/14

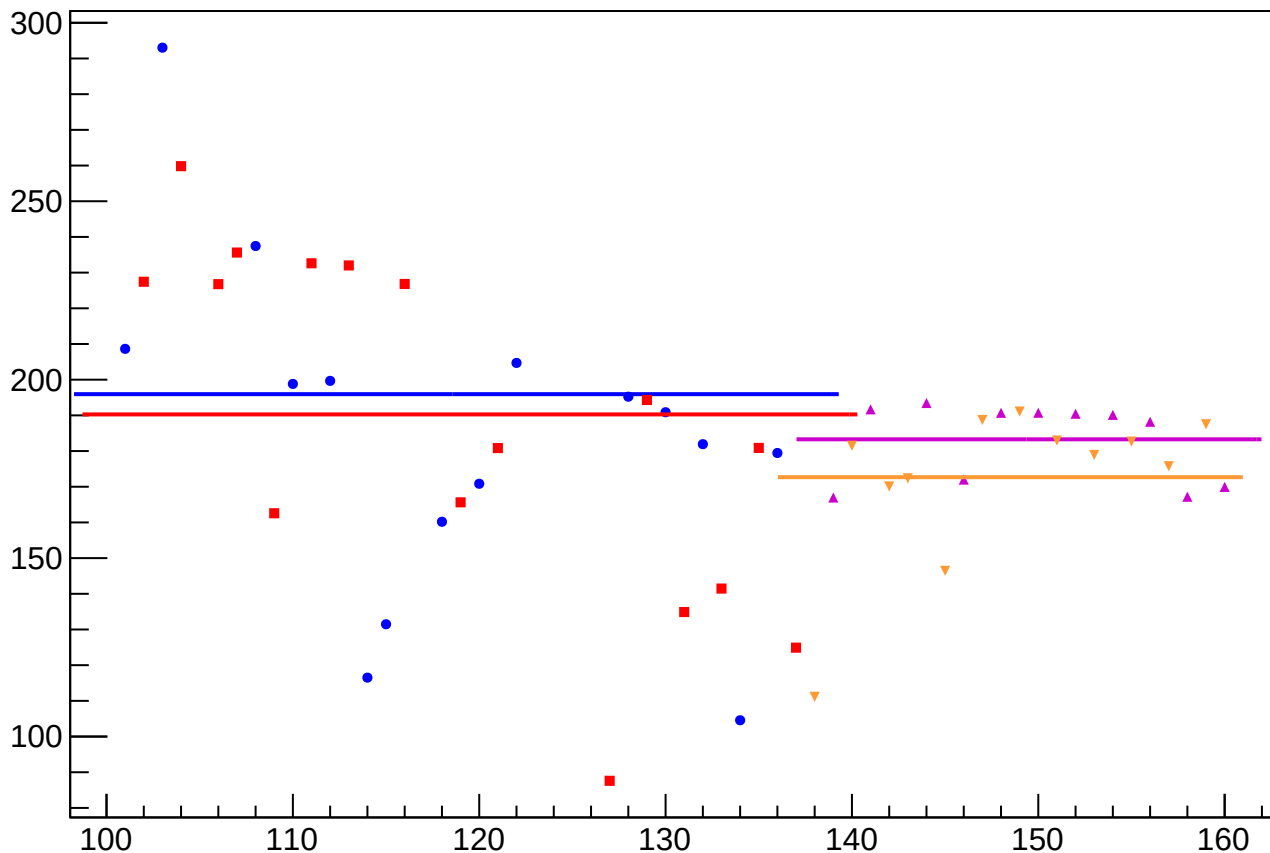
Left Out: 1163.051 $\pm$ 0.000  $\chi^2$ /NDF: 45744768397049445452124121981603807232.0/11

Right Out: 1016.106 $\pm$ 0.000  $\chi^2$ /NDF: 72567664333509192712184310037150171136.0/15

Left In: 1285.364 $\pm$ 0.000  $\chi^2$ /NDF: 24002572803732345959736048095514853376.0/10

+ sign 1139.844 $\pm$ 0.000  $\chi^2$ /NDF: 87570338044863  
All: 1156.292 $\pm$ 0.000  $\chi^2$ /NDF: 21306550198  
- sign 1172.482 $\pm$ 0.000  $\chi^2$ /NDF: 12465444911625

dit\_4eY\_coil4\_mean vs Slug



Right In: 195.940+/-0.000  $\chi^2/\text{NDF}$ : 1057891079869089572370479093183938560.0/14

Left Out: 172.678+/-0.000  $\chi^2/\text{NDF}$ : 444129154318784491704790528347340800.0/11

Right Out: 190.268+/-0.000  $\chi^2/\text{NDF}$ : 1468473073667973330267084234323656704.0/15

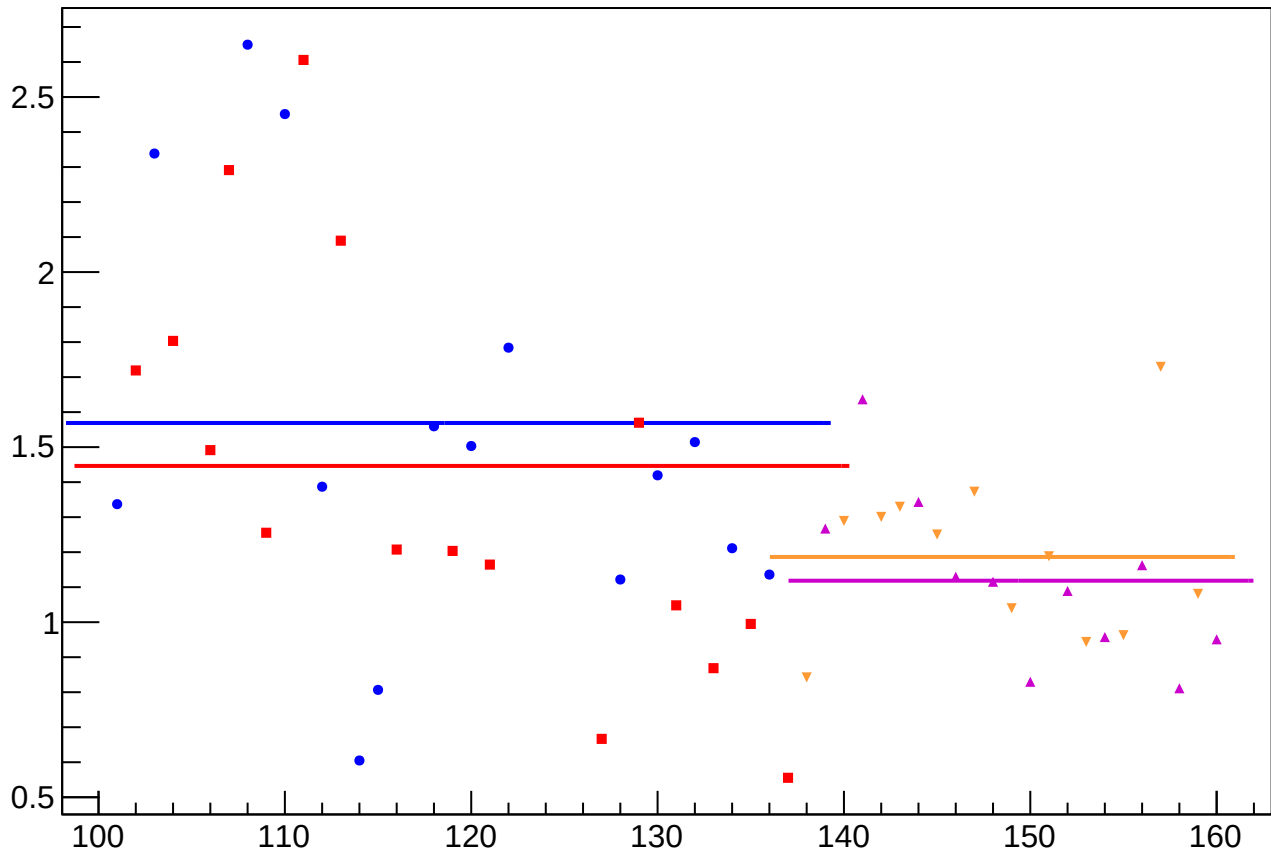
Left In: 183.290+/-0.000  $\chi^2/\text{NDF}$ : 101738841511111417821042611832487936.0/10

+ sign 182.319+/-0.000  $\chi^2/\text{NDF}$ : 170767185336738

All: 184.283+/-0.000  $\chi^2/\text{NDF}$ : 330872661752

- sign 186.216+/-0.000  $\chi^2/\text{NDF}$ : 158906987548328

dit\_4eY\_coil4\_err\_mean vs Slug



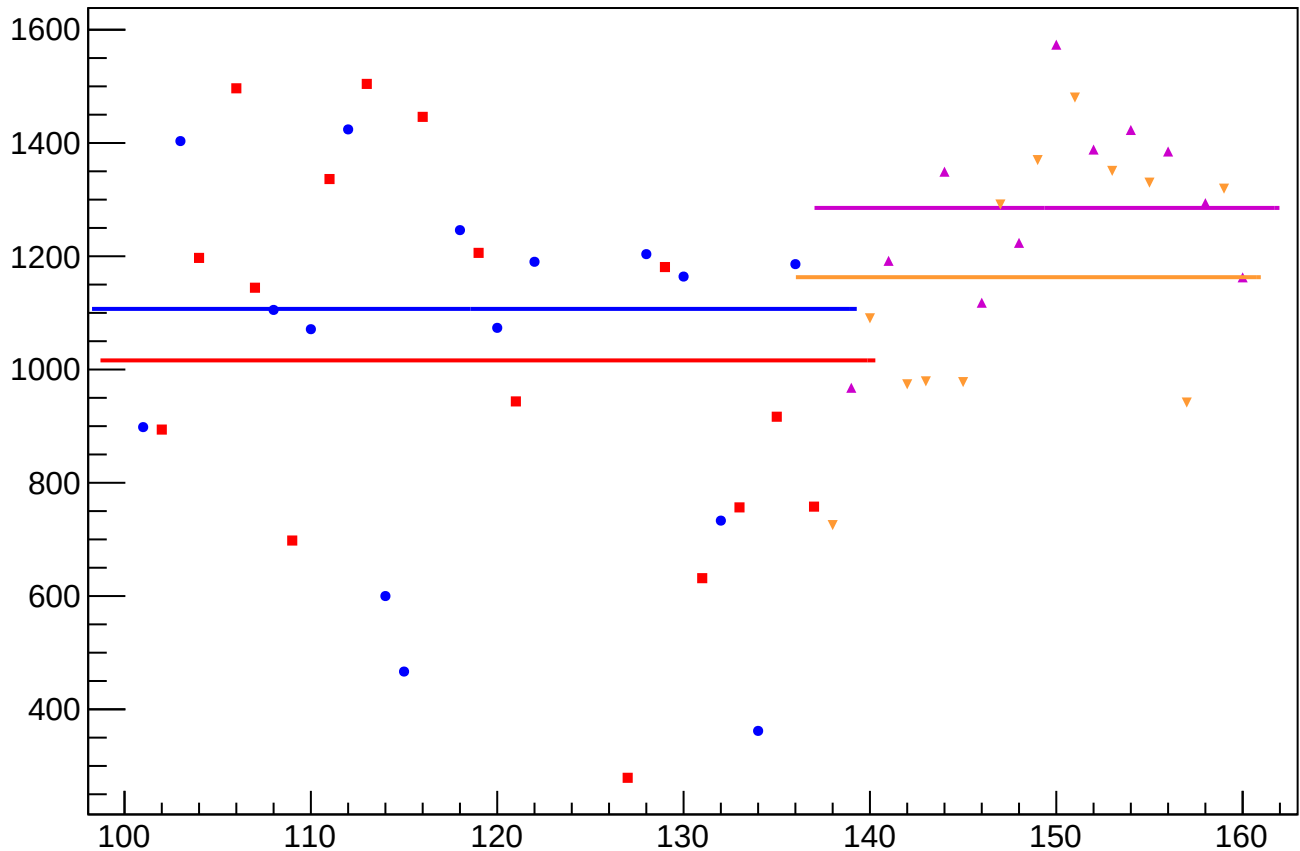
Right In: 1.569+/-0.000  $\chi^2/\text{NDF}$ : 162849195668123380789610540957696.0/14

Left Out: 1.186+/-0.000  $\chi^2/\text{NDF}$ : 50110649006733128269701442437120.0/11

Right Out: 1.446+/-0.000  $\chi^2/\text{NDF}$ : 196296653917523352443271052787712.0/15

Left In: 1.118+/-0.000  $\chi^2/\text{NDF}$ : 48973496995723480911801365823488.0/10

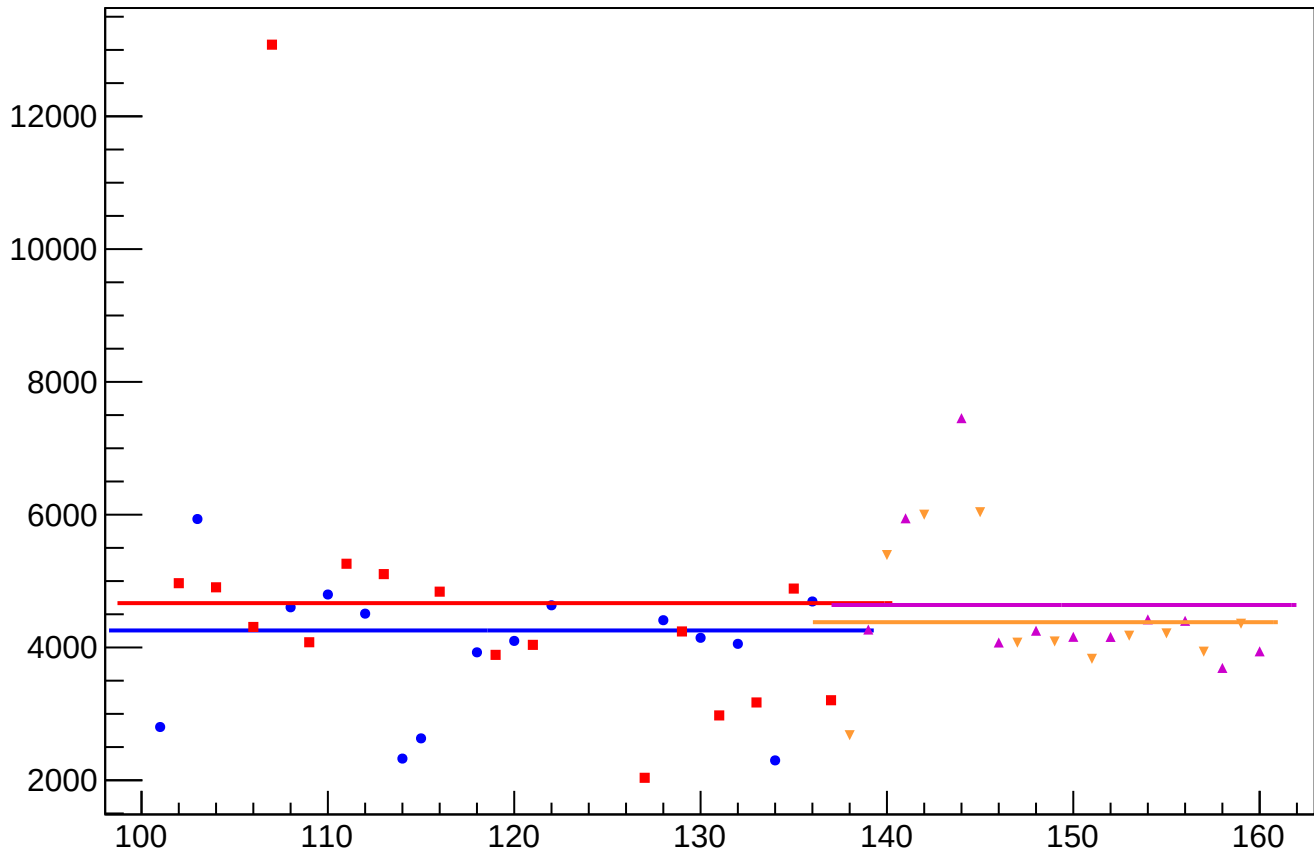
dit\_4eY\_coil4\_Ndata\_mean vs Slug



Right In:  $1107.052 \pm 0.000$   $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out:  $1163.051 \pm 0.000$   $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out:  $1016.106 \pm 0.000$   $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In:  $1285.364 \pm 0.000$   $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10

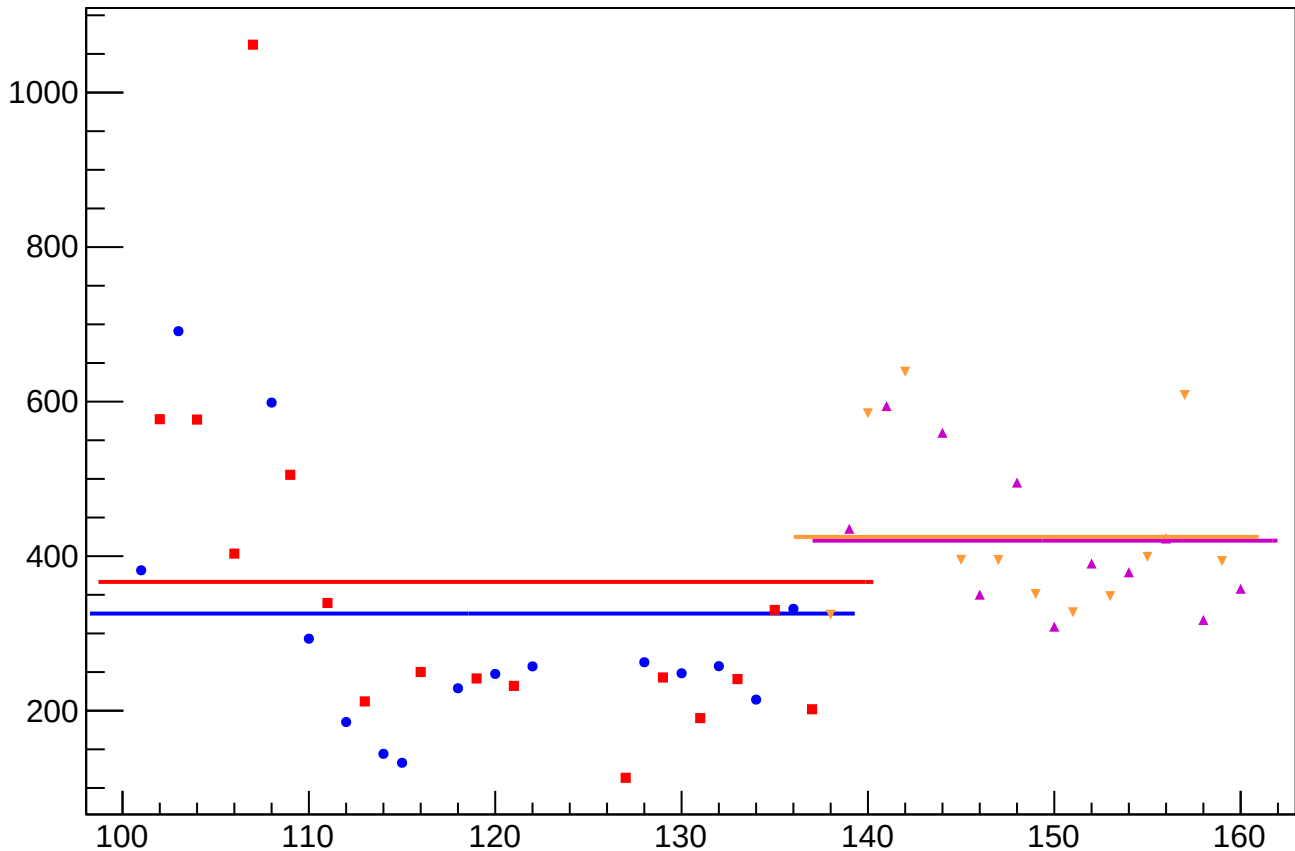


dit\_usl\_coil4\_mean vs Slug



Right In: 4256.386+/-0.000  $\chi^2/\text{NDF}$ : 498605412551624859672454954159576186880.0/14  
 Left Out: 4380.887+/-0.000  $\chi^2/\text{NDF}$ : 711929350796242872356445332084336099328.0/10  
 Right Out: 4667.832+/-0.000  $\chi^2/\text{NDF}$ : 3201925535782807450320951772159309512704.0/15  
 Left In: 4639.846+/-0.000  $\chi^2/\text{NDF}$ : 1058446303743243170530981239939506634752.0/10

dit\_usl\_coil4\_err\_mean vs Slug



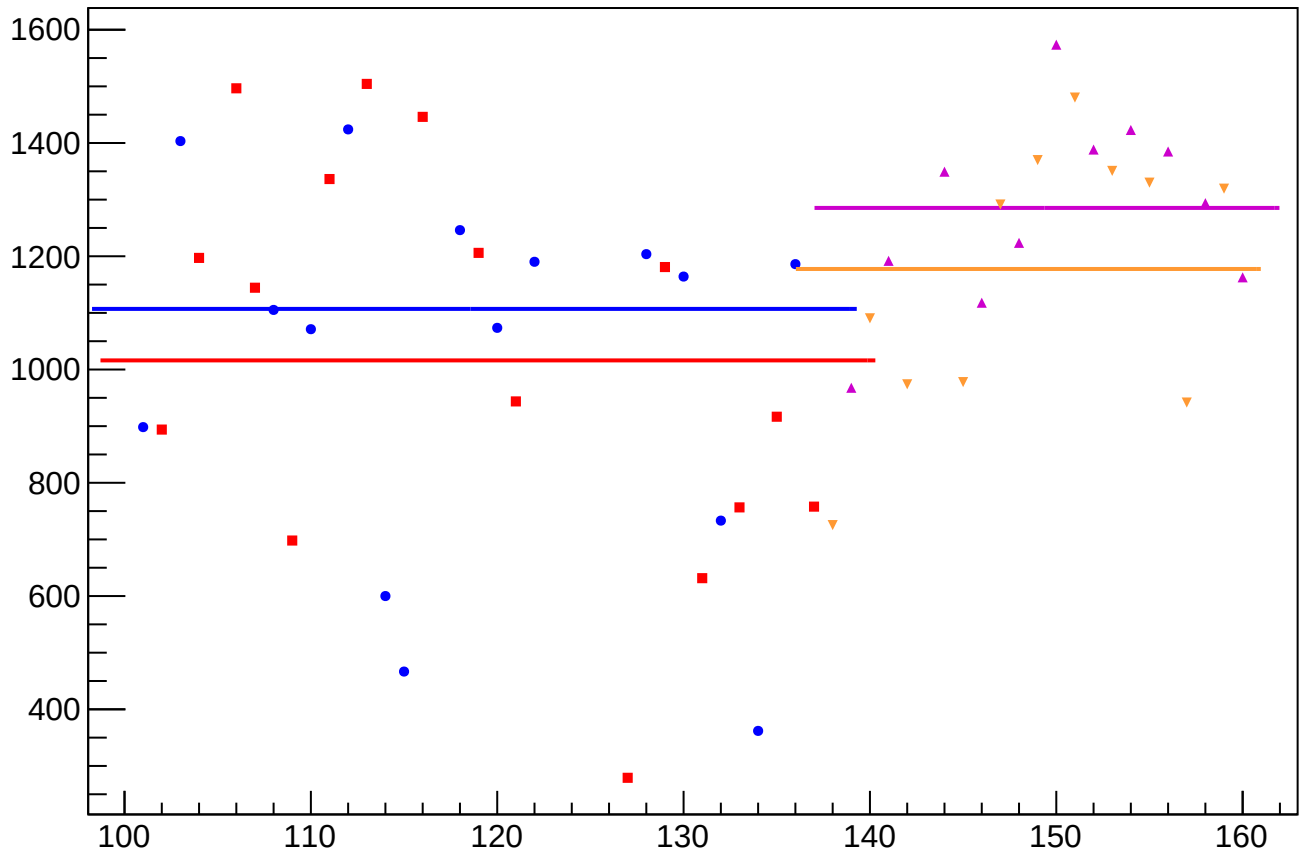
Right In: 325.732+/-0.000  $\chi^2/\text{NDF}$ : 14633359567940244123897242769854300160.0/14

Left Out: 424.941+/-0.000  $\chi^2/\text{NDF}$ : 9621828673272649813383773272468881408.0/10

Right Out: 366.682+/-0.000  $\chi^2/\text{NDF}$ : 32097250699947956409117440115398934528.0/15

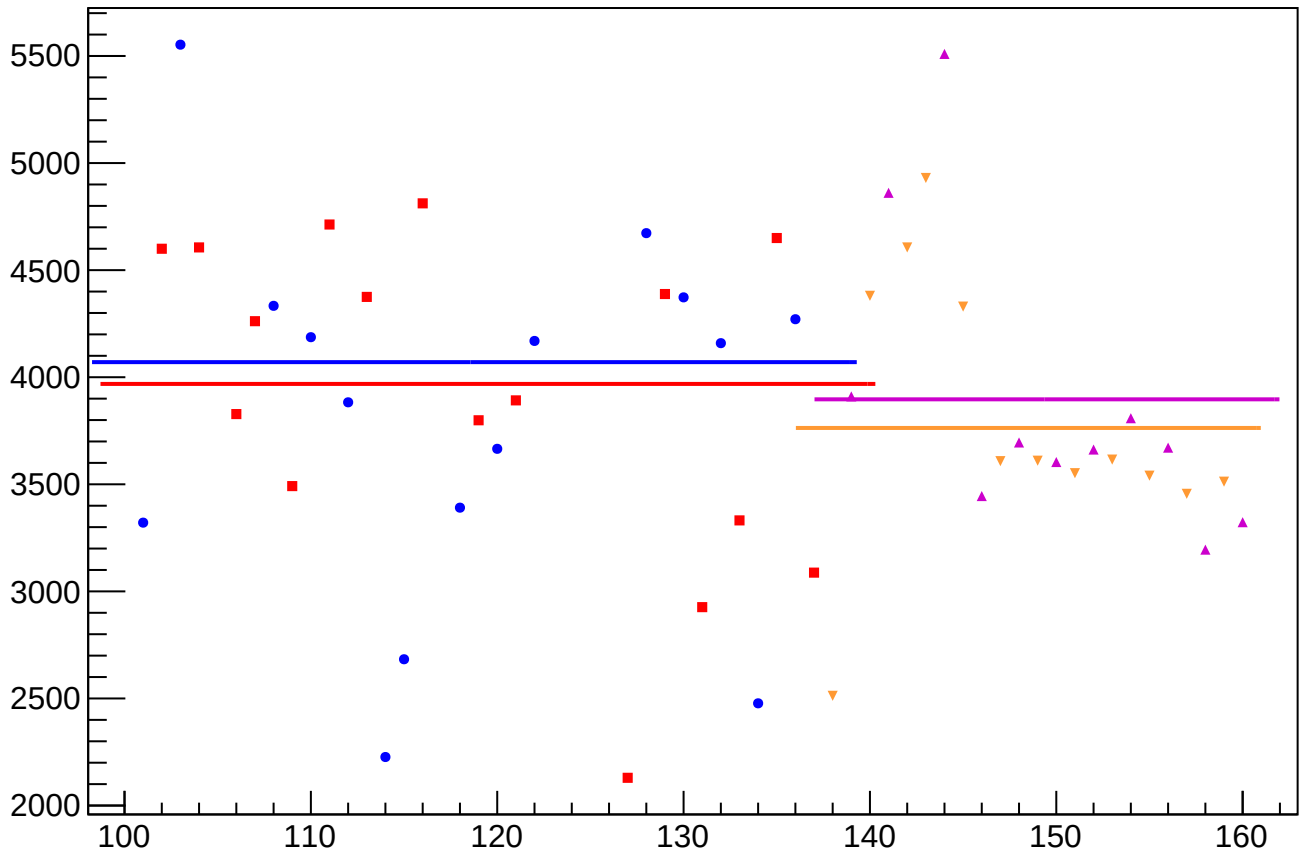
Left In: 420.062+/-0.000  $\chi^2/\text{NDF}$ : 7706514276709269263404419491802644480.0/10

dit\_usl\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052+/-0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1177.551+/-0.000  $\chi^2/\text{NDF}$ : 43299032399354290264123483303178141696.0/10  
 Right Out: 1016.106+/-0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364+/-0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1160.134+/-0.000  $\chi^2/\text{NDF}$ : 21091639805

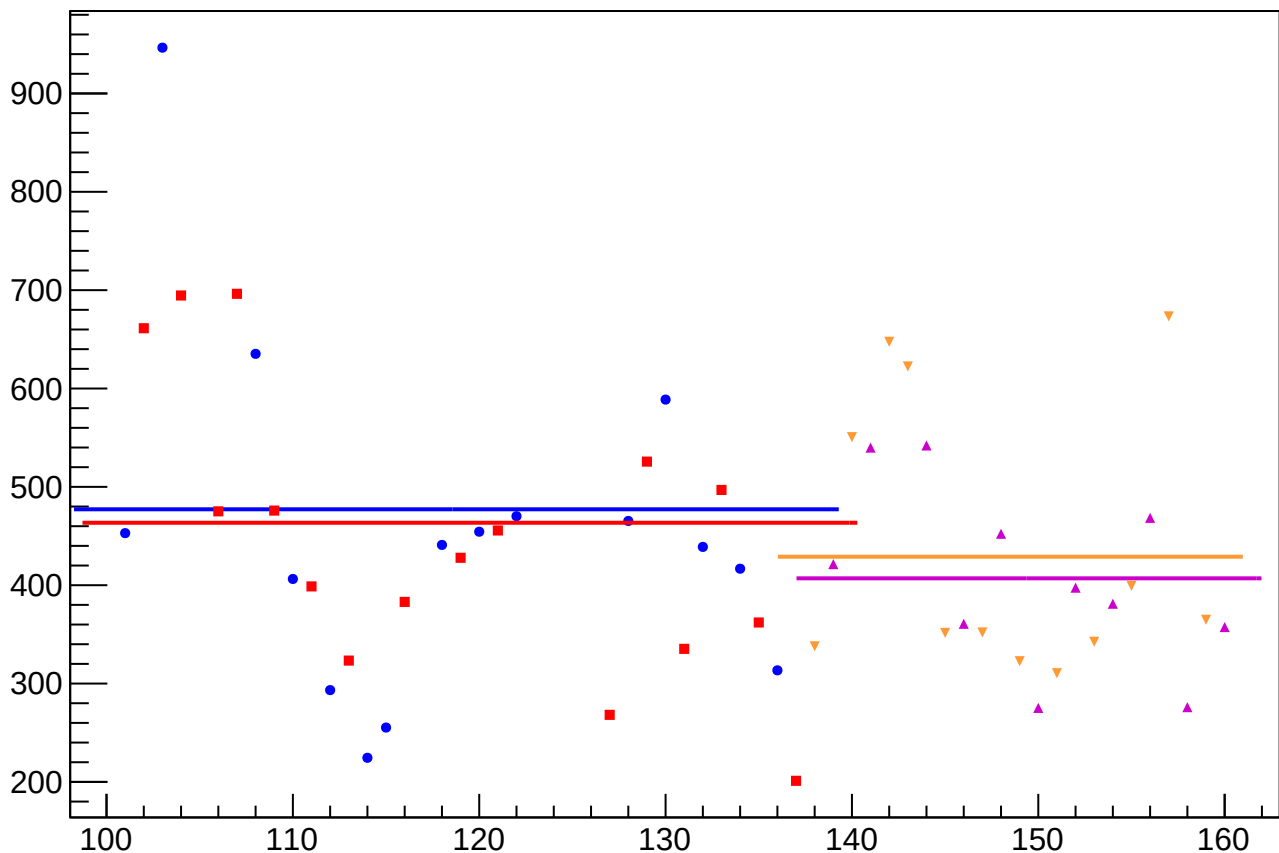
dit\_usr\_coil4\_mean vs Slug



|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Right In: 4070.444+/-0.000  | $\chi^2/\text{NDF}$ : 343281875282695739956383156295247593472.0/14 |
| Left Out: 3763.117+/-0.000  | $\chi^2/\text{NDF}$ : 328830410494285997490635269622747627520.0/11 |
| Right Out: 3968.723+/-0.000 | $\chi^2/\text{NDF}$ : 359955880326194784467353369492594884608.0/15 |
| Left In: 3896.757+/-0.000   | $\chi^2/\text{NDF}$ : 412530714584693730225130204014353317888.0/10 |

+ sign 3890.483+/-0.000  $\chi^2/\text{NDF}$ : 70800630577905  
 All: 3908.850+/-0.000  $\chi^2/\text{NDF}$ : 14835473248  
 - sign 3926.928+/-0.000  $\chi^2/\text{NDF}$ : 77449278990952

dit\_usr\_coil4\_err\_mean vs Slug



Right In: 477.186+/-0.000  $\chi^2/\text{NDF}$ : 20455719931758379978892605184974782464.0/14

Left Out: 428.977+/-0.000  $\chi^2/\text{NDF}$ : 15293827786065679931988484454692683776.0/11

Right Out: 463.513+/-0.000  $\chi^2/\text{NDF}$ : 12556777931069903370031832388184571904.0/15

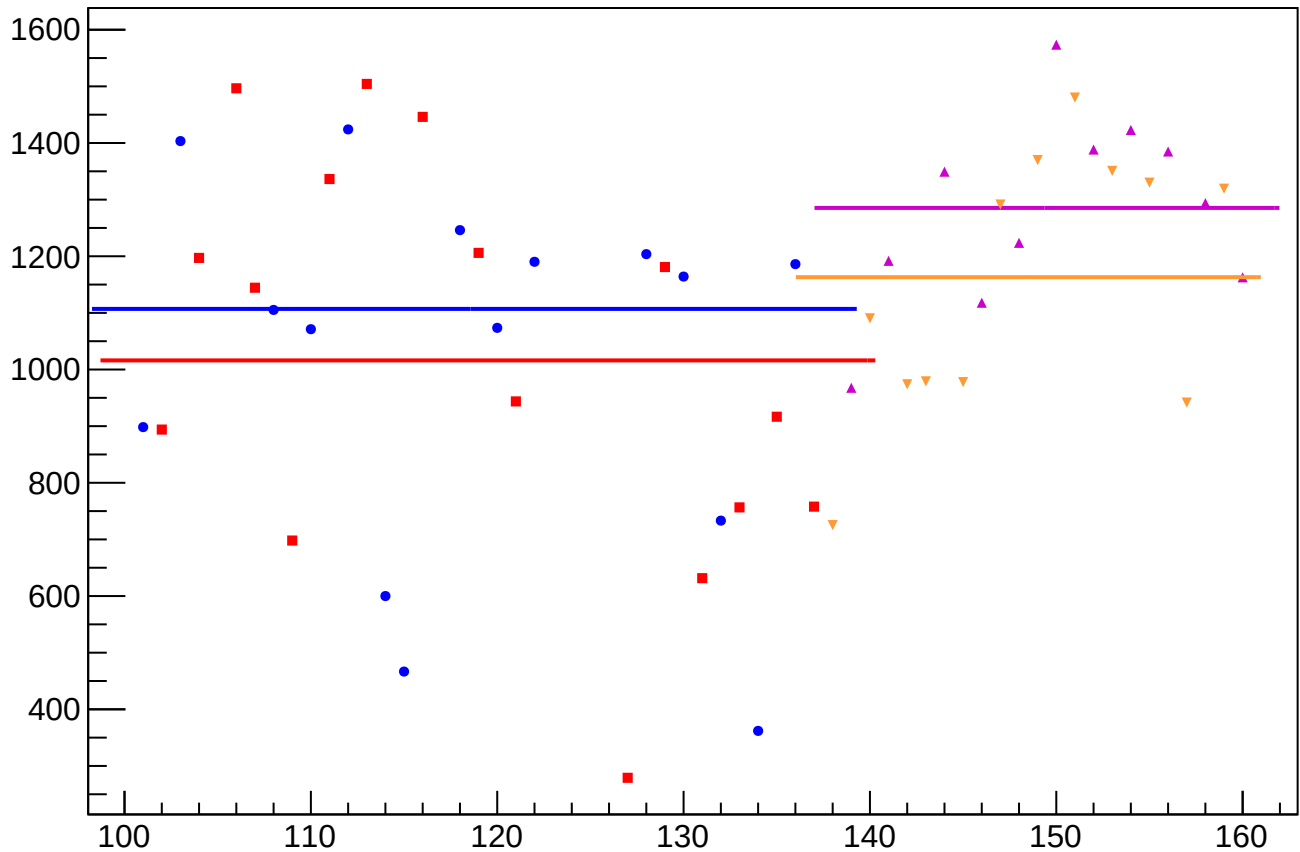
Left In: 406.990+/-0.000  $\chi^2/\text{NDF}$ : 7014219134688394471330081136711827456.0/10

+ sign 448.957+/-0.000  $\chi^2/\text{NDF}$ : 366327990822750

All: 439.749+/-0.000  $\chi^2/\text{NDF}$ : 577048219022

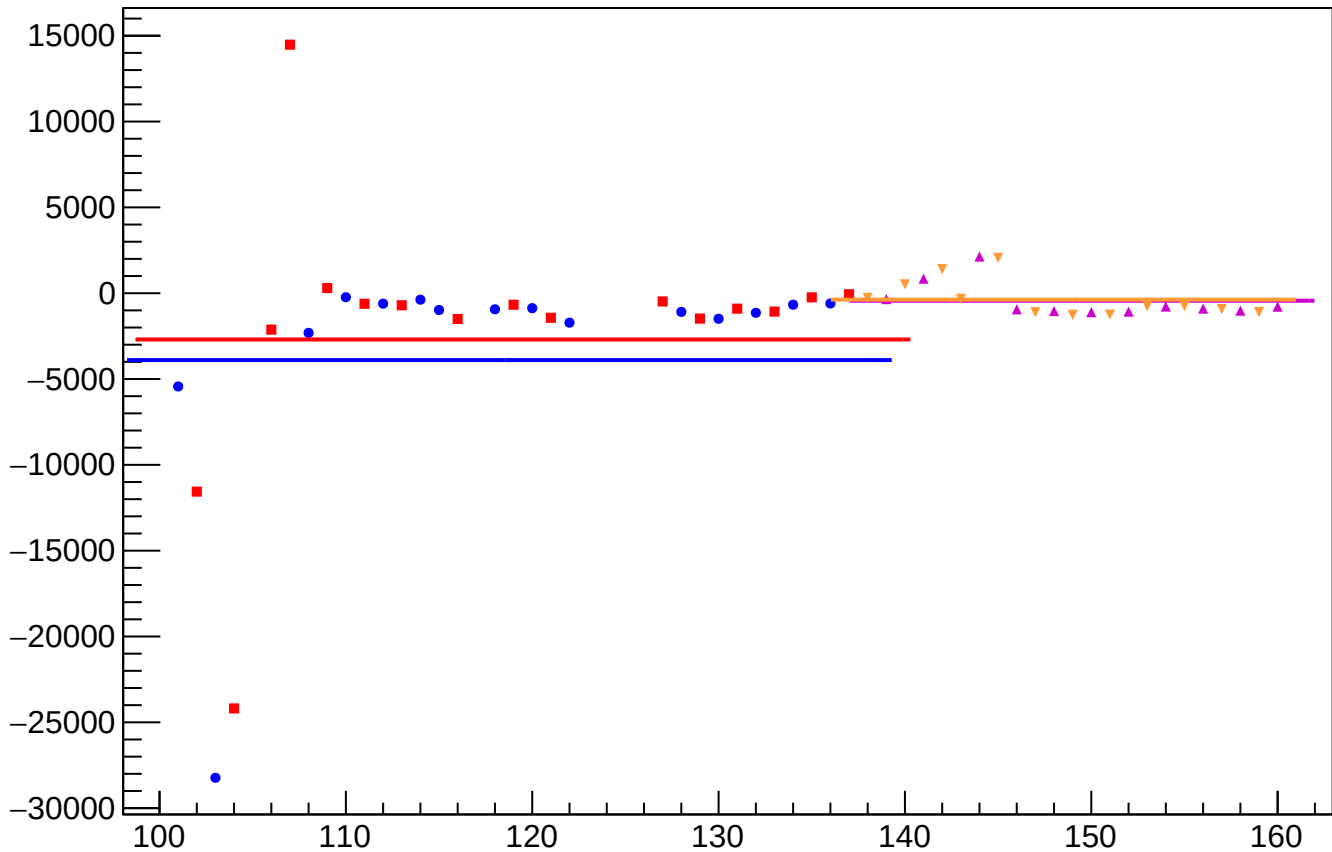
- sign 430.686+/-0.000  $\chi^2/\text{NDF}$ : 208085780635080

dit\_usr\_coil4\_Ndata\_mean vs Slug



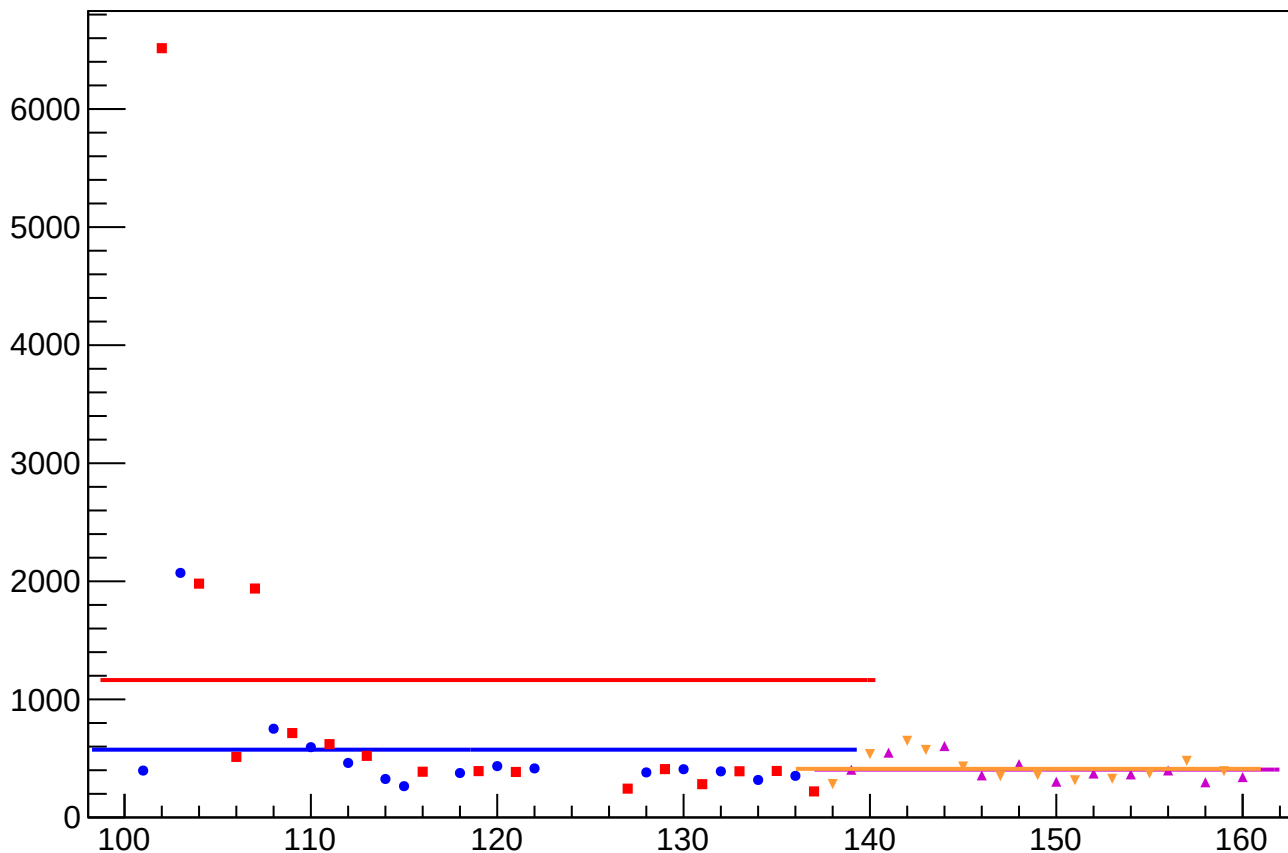
|                             |                                                                   |                         |                                      |
|-----------------------------|-------------------------------------------------------------------|-------------------------|--------------------------------------|
| Right In: 1107.052+/-0.000  | $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14 | + sign 1139.844+/-0.000 | $\chi^2/\text{NDF}$ : 87570338044863 |
| Left Out: 1163.051+/-0.000  | $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11 | All: 1156.292+/-0.000   | $\chi^2/\text{NDF}$ : 21306550198    |
| Right Out: 1016.106+/-0.000 | $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15 | - sign 1172.482+/-0.000 | $\chi^2/\text{NDF}$ : 12465444911625 |
| Left In: 1285.364+/-0.000   | $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10 |                         |                                      |

# dit\_atl1\_coil4\_mean vs Slug



Right In:  $-3896.522 \pm 0.000$   $\chi^2/\text{NDF}: 39618598516481020448248440670012984786944.0/14$   
 Left Out:  $-374.202 \pm 0.000$   $\chi^2/\text{NDF}: 945868175144673963133070381135496740864.0/11$   
 Right Out:  $-2695.992 \pm 0.000$   $\chi^2/\text{NDF}: 40822463071462352124212058386591729582080.0/15$   
 Left In:  $-439.289 \pm 0.000$   $\chi^2/\text{NDF}: 921031566733723872829454078558930468864.0/10$

dit\_atl1\_coil4\_err\_mean vs Slug



Right In:  $574.055 \pm 0.000$   $\chi^2/\text{NDF}$ : 152105229889160423018493709582390525952.0/14

+ sign  $478.965 \pm 0.000$   $\chi^2/\text{NDF}$ : 171437634653711

Left Out:  $411.666 \pm 0.000$   $\chi^2/\text{NDF}$ : 9310753562046919070067621560894619648.0/11

All:  $602.093 \pm 0.000$   $\chi^2/\text{NDF}$ : 245259904240

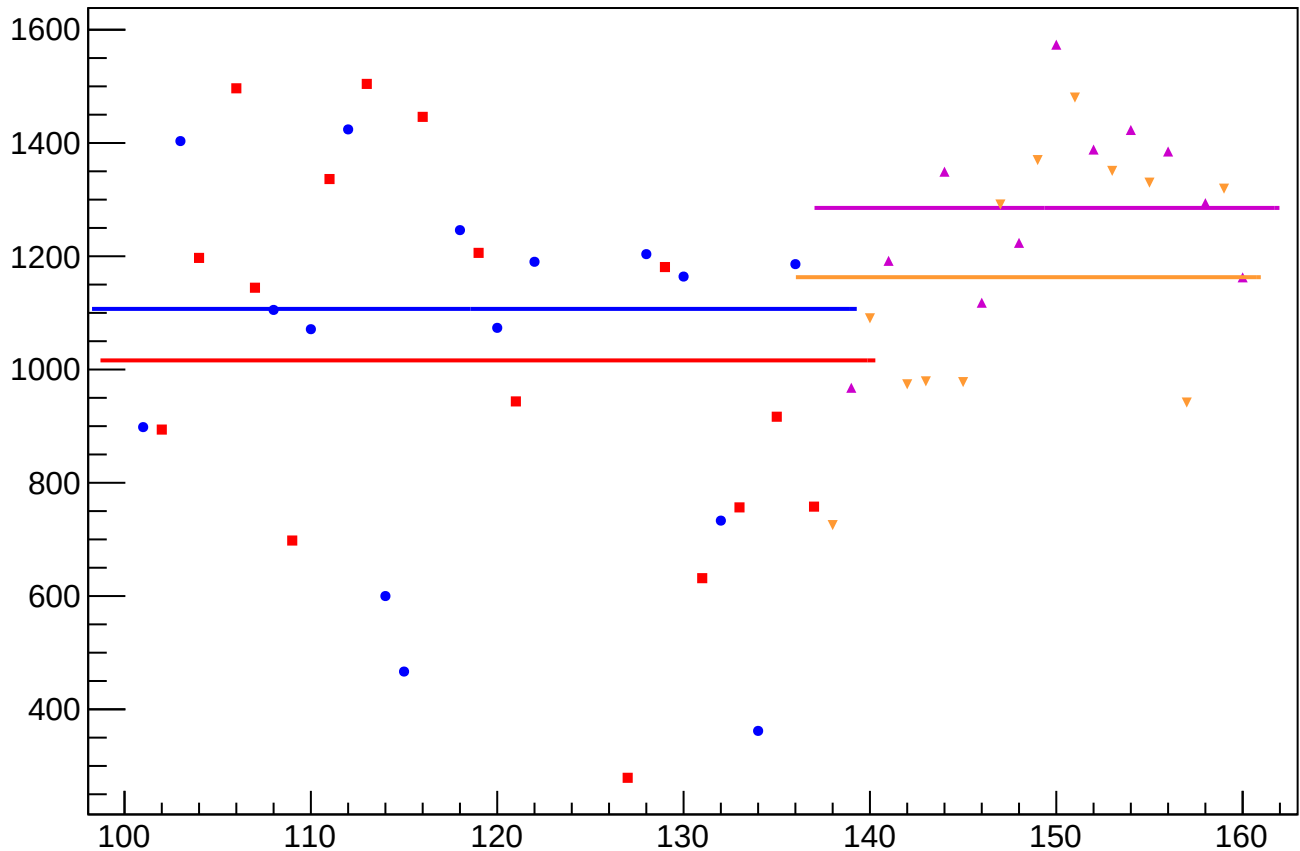
Right Out:  $1163.697 \pm 0.000$   $\chi^2/\text{NDF}$ : 2003194396475465337190154787515183136768.0/15

- sign  $723.286 \pm 0.000$   $\chi^2/\text{NDF}$ : 223405186584258

Left In:  $405.371 \pm 0.000$   $\chi^2/\text{NDF}$ : 8096374045117906535343483577494929408.0/10



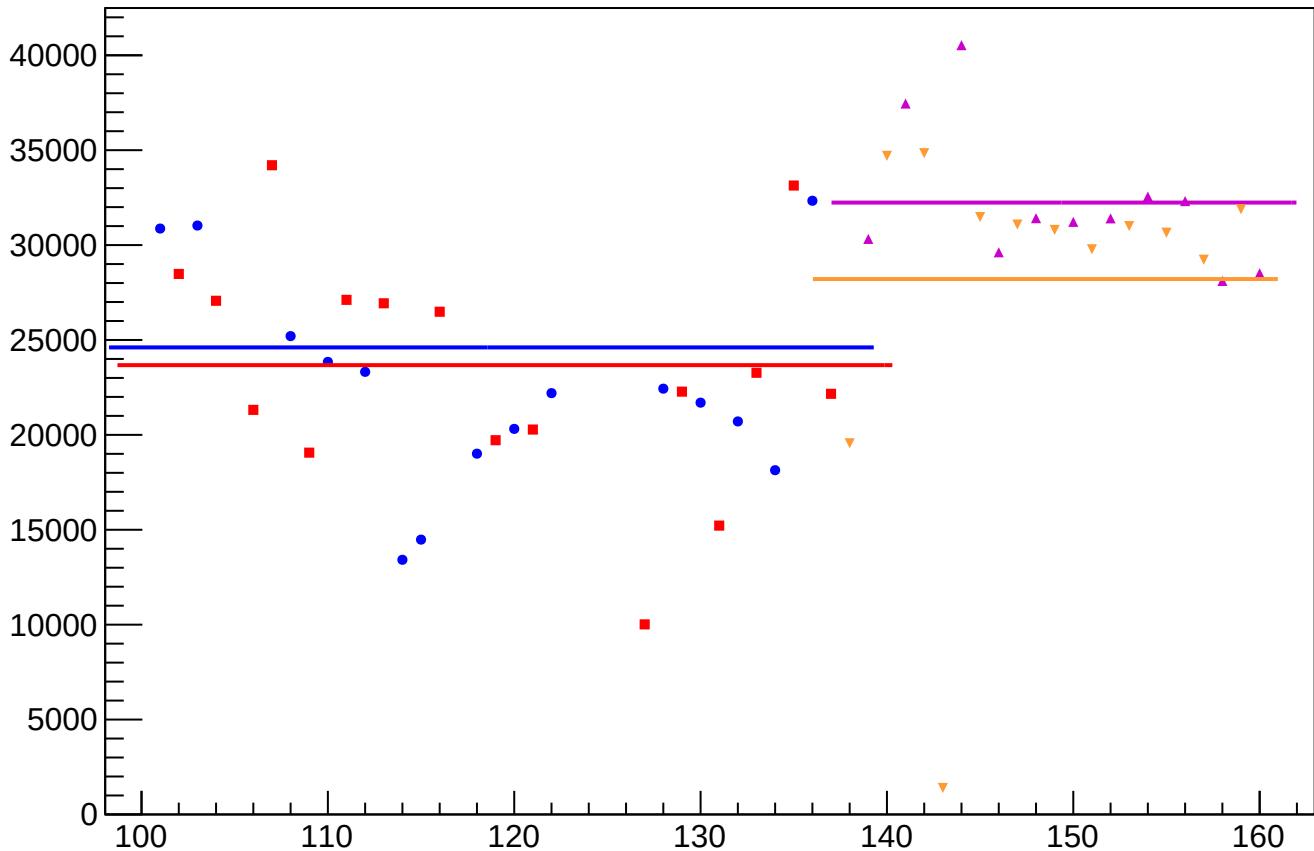
dit\_atl1\_coil4\_Ndata\_mean vs Slug



Right In:  $1107.052 \pm 0.000$   $\chi^2/\text{NDF}: 40633831787810179240542210398269472768.0/14$   
 Left Out:  $1163.051 \pm 0.000$   $\chi^2/\text{NDF}: 45744768397049445452124121981603807232.0/11$   
 Right Out:  $1016.106 \pm 0.000$   $\chi^2/\text{NDF}: 72567664333509192712184310037150171136.0/15$   
 Left In:  $1285.364 \pm 0.000$   $\chi^2/\text{NDF}: 24002572803732345959736048095514853376.0/10$

+ sign  $1139.844 \pm 0.000$   $\chi^2/\text{NDF}: 87570338044863$   
 All:  $1156.292 \pm 0.000$   $\chi^2/\text{NDF}: 21306550198$   
 - sign  $1172.482 \pm 0.000$   $\chi^2/\text{NDF}: 12465444911625$

dit\_atl2\_coil4\_mean vs Slug



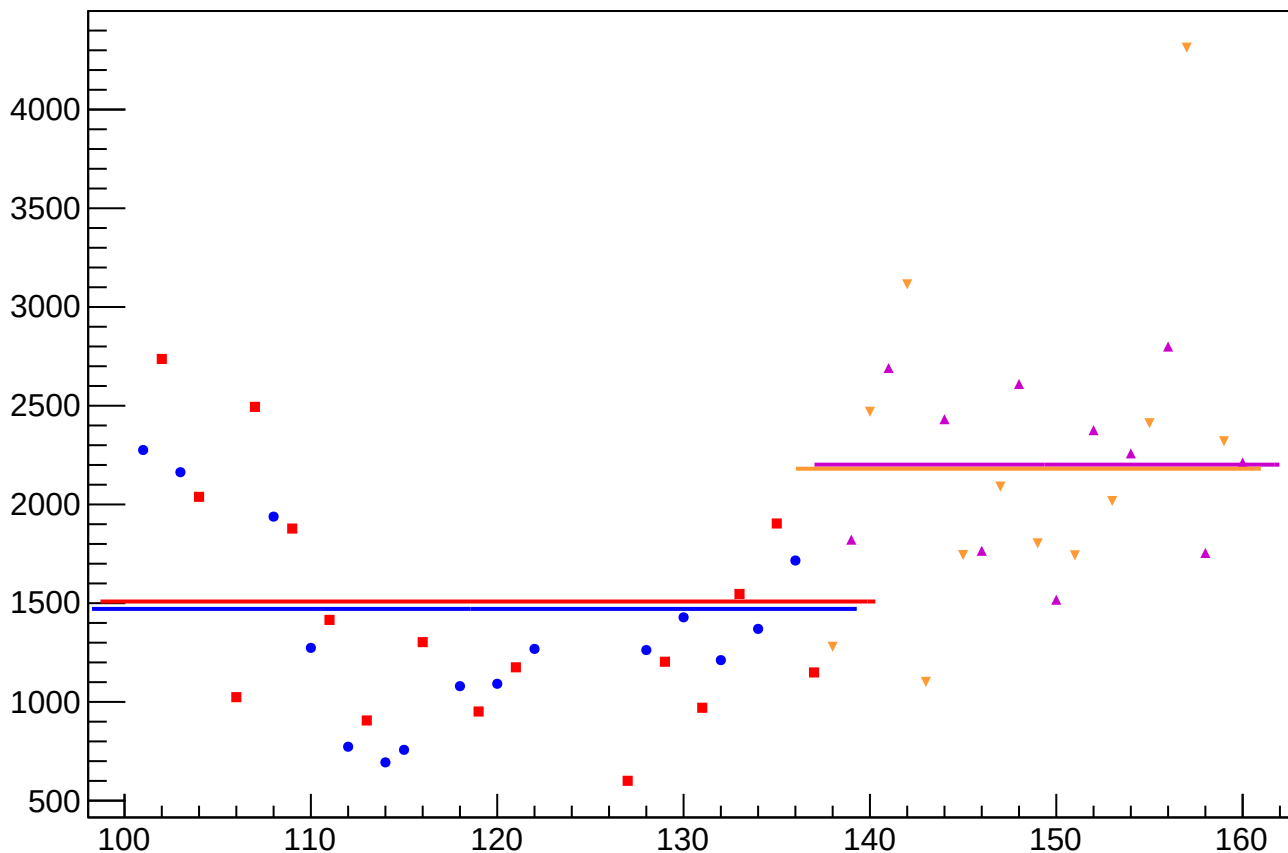
|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 24608.761+/-0.000  | $\chi^2/\text{NDF}$ : 17555600427140701787636759084167268925440.0/14 |
| Left Out: 28209.767+/-0.000  | $\chi^2/\text{NDF}$ : 64052588208815786501271136154217957294080.0/11 |
| Right Out: 23673.937+/-0.000 | $\chi^2/\text{NDF}$ : 24824229344827567313624871677295341862912.0/15 |
| Left In: 32239.303+/-0.000   | $\chi^2/\text{NDF}$ : 11931397875663177142812829998803541032960.0/10 |

+ sign 26717.396+/-0.000  $\chi^2/\text{NDF}$ : 8653618172568

All: 27690.553+/-0.000  $\chi^2/\text{NDF}$ : 1546543173

- sign 28648.418+/-0.000  $\chi^2/\text{NDF}$ : 6517533016953

dit\_atl2\_coil4\_err\_mean vs Slug



Right In: 1471.095+/-0.000  $\chi^2/\text{NDF}$ : 139174979420467841073894167956452016128.0/14

Left Out: 2180.972+/-0.000  $\chi^2/\text{NDF}$ : 598703226121999788747151174026347413504.0/11

Right Out: 1508.451+/-0.000  $\chi^2/\text{NDF}$ : 250085163770425050605763446985715613696.0/15

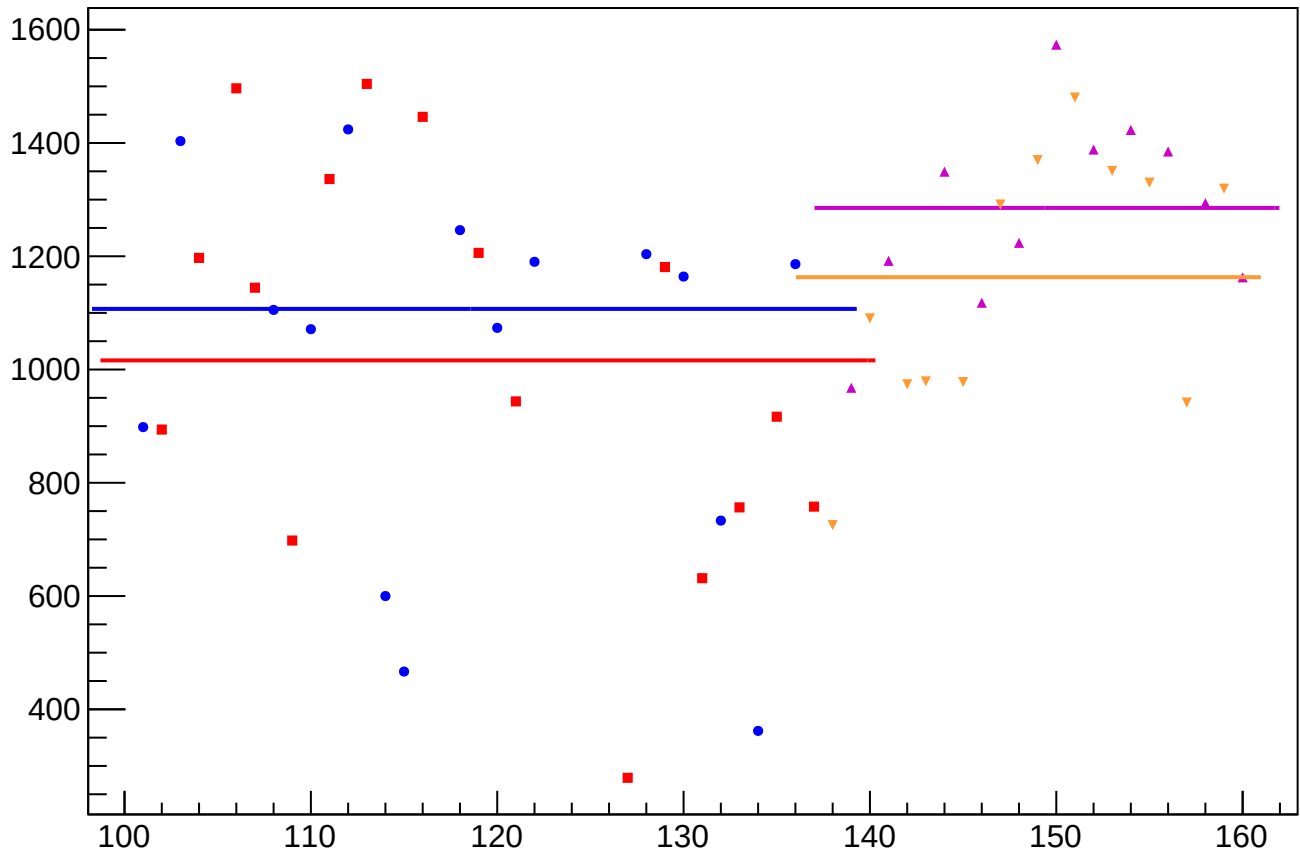
Left In: 2201.571+/-0.000  $\chi^2/\text{NDF}$ : 156929124179690930619030229097962799104.0/10

+ sign 1886.776+/-0.000  $\chi^2/\text{NDF}$ : 92938717057142

All: 1898.980+/-0.000  $\chi^2/\text{NDF}$ : 15229636648

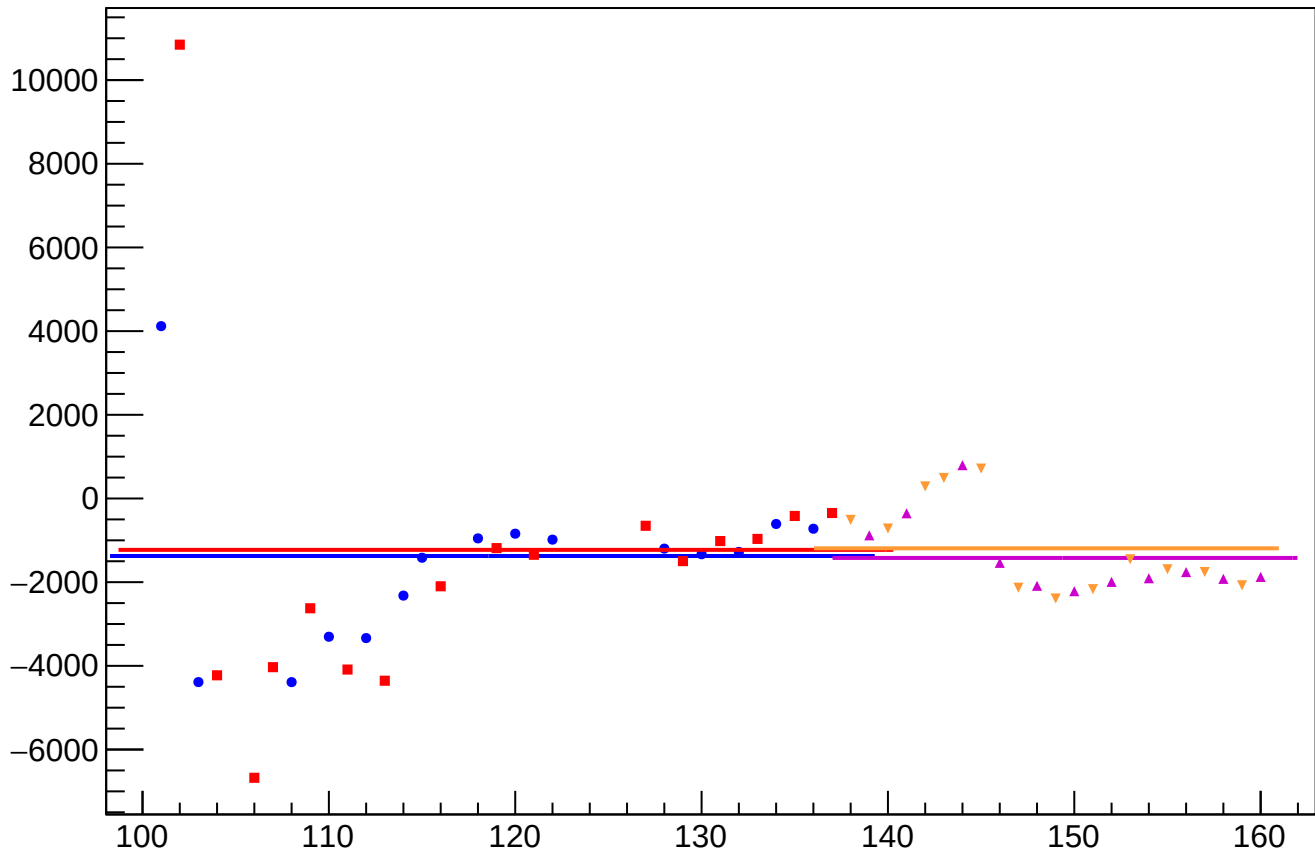
- sign 1910.992+/-0.000  $\chi^2/\text{NDF}$ : 59311371544144

dit\_atl2\_coil4\_Ndata\_mean vs Slug



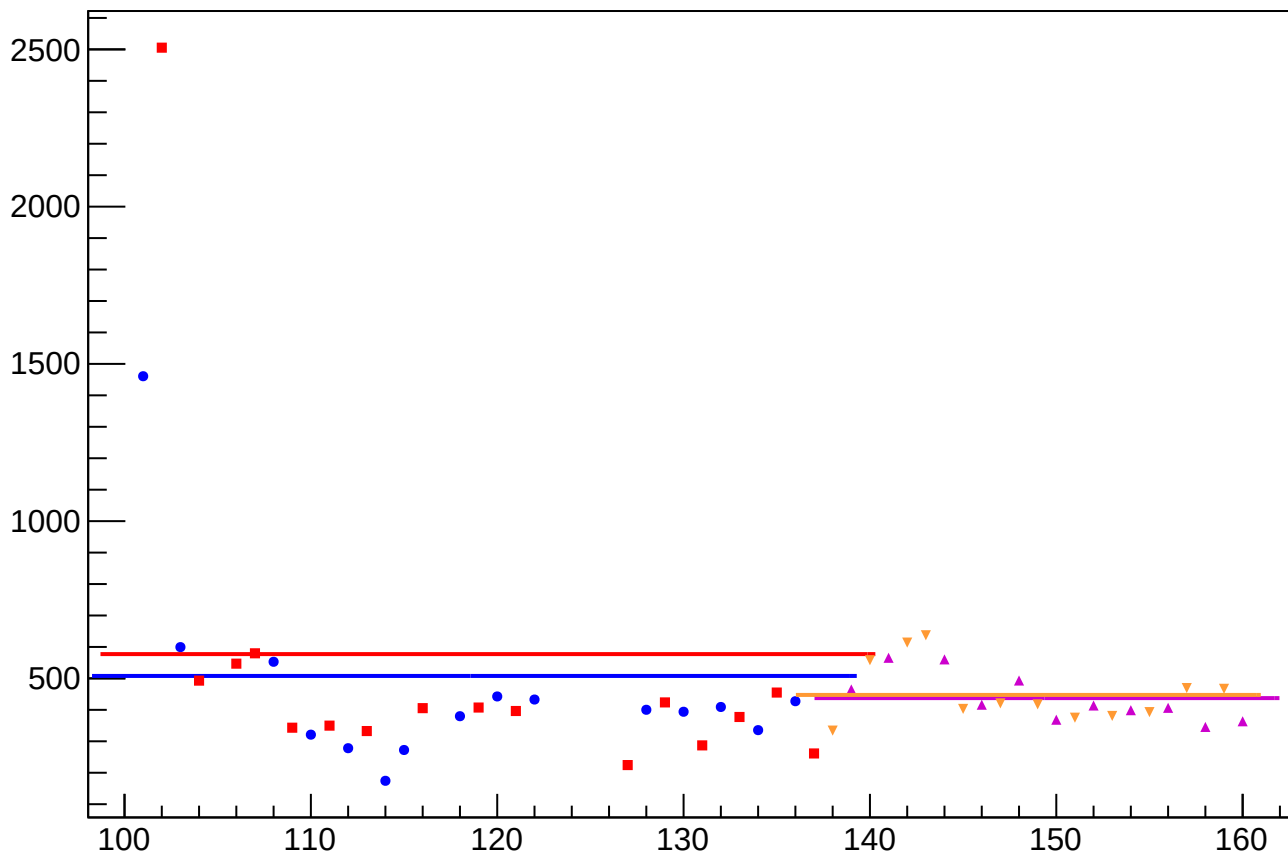
Right In: 1107.052 $\pm$ 0.000  $\chi^2$ /NDF: 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 $\pm$ 0.000  $\chi^2$ /NDF: 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 $\pm$ 0.000  $\chi^2$ /NDF: 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 $\pm$ 0.000  $\chi^2$ /NDF: 24002572803732345959736048095514853376.0/10

dit\_atr1\_coil4\_mean vs Slug



Right In: -1374.510+/-0.000  $\chi^2/\text{NDF}$ : 3072775774026573120755024580495322120192.0/14  
 Left Out: -1191.069+/-0.000  $\chi^2/\text{NDF}$ : 1015662132878322627077441101495867015168.0/11  
 Right Out: -1227.879+/-0.000  $\chi^2/\text{NDF}$ : 11115312999926623396466450218448622452736.0/15  
 Left In: -1420.806+/-0.000  $\chi^2/\text{NDF}$ : 747987085785920162637916932217361137664.0/10

dit\_atr1\_coil4\_err\_mean vs Slug



Right In: 507.809+/-0.000  $\chi^2/\text{NDF}$ : 64139927968444054596859613468220719104.0/14

Left Out: 447.436+/-0.000  $\chi^2/\text{NDF}$ : 7069072028969774638688985742751825920.0/11

Right Out: 577.250+/-0.000  $\chi^2/\text{NDF}$ : 241288780642623391683958641535574081536.0/15

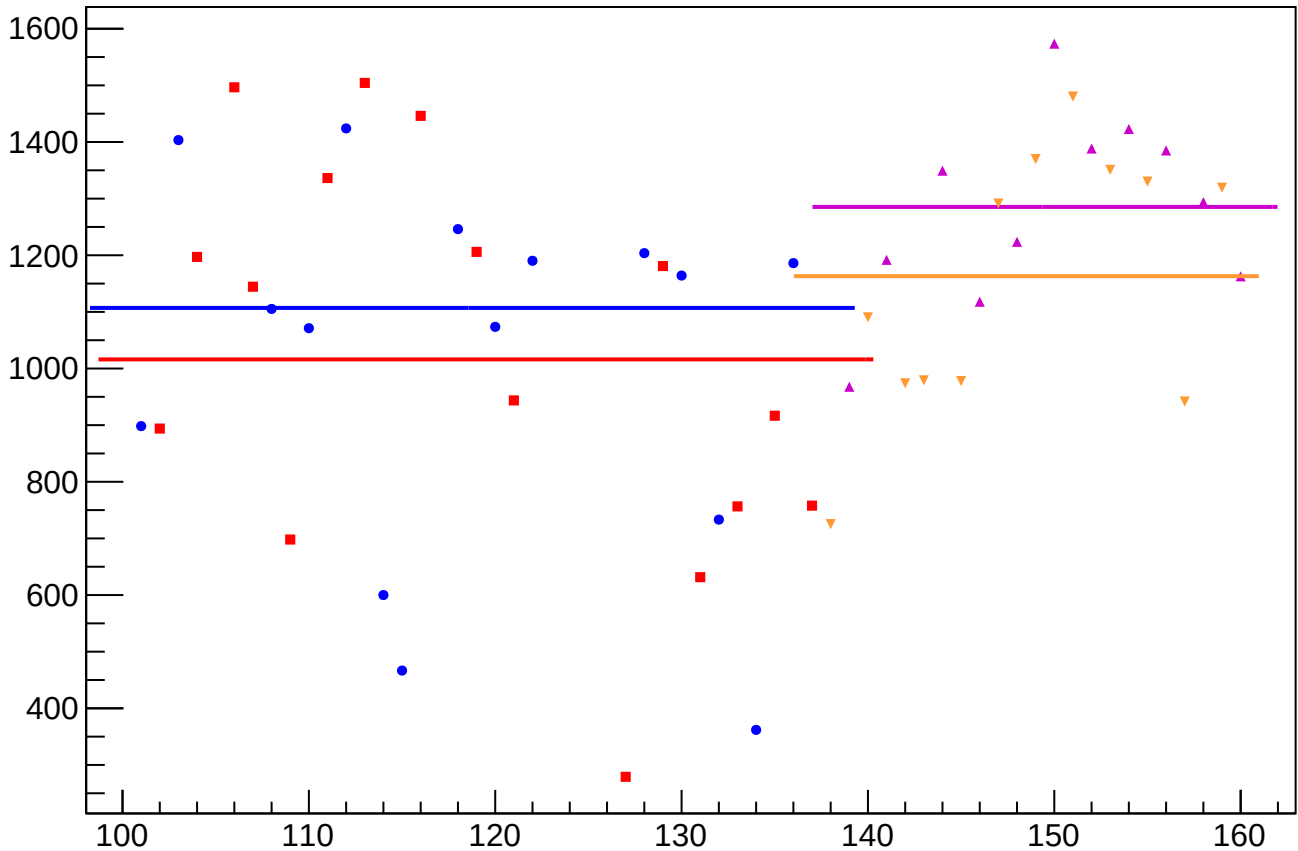
Left In: 437.315+/-0.000  $\chi^2/\text{NDF}$ : 4874677524968742275560761293986070528.0/10

+ sign 472.457+/-0.000  $\chi^2/\text{NDF}$ : 725941960132600

All: 484.312+/-0.000  $\chi^2/\text{NDF}$ : 326779825479

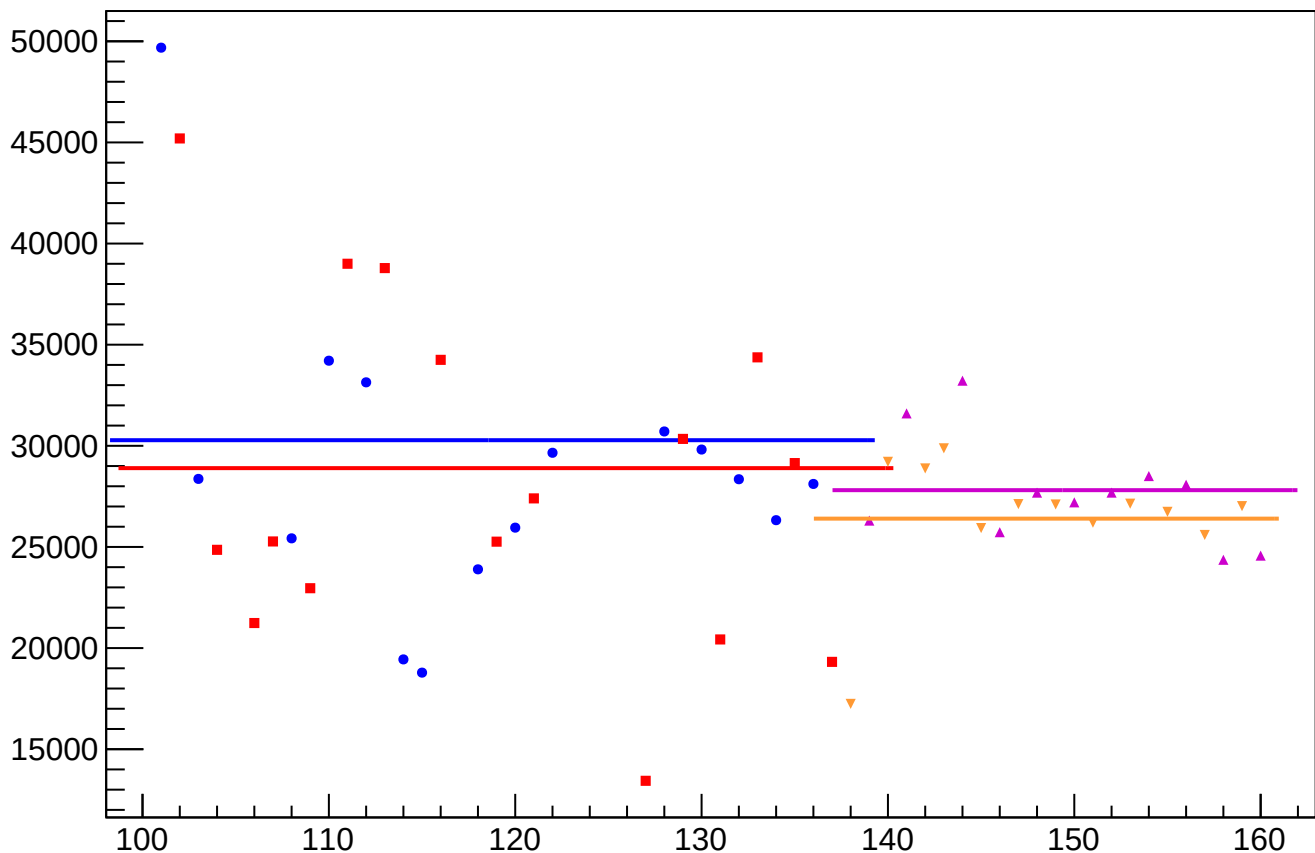
- sign 495.981+/-0.000  $\chi^2/\text{NDF}$ : 253748895345900

dit\_atr1\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 $\pm$ 0.000  $\chi^2$ /NDF: 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 $\pm$ 0.000  $\chi^2$ /NDF: 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 $\pm$ 0.000  $\chi^2$ /NDF: 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 $\pm$ 0.000  $\chi^2$ /NDF: 24002572803732345959736048095514853376.0/10

dit\_atr2\_coil4\_mean vs Slug

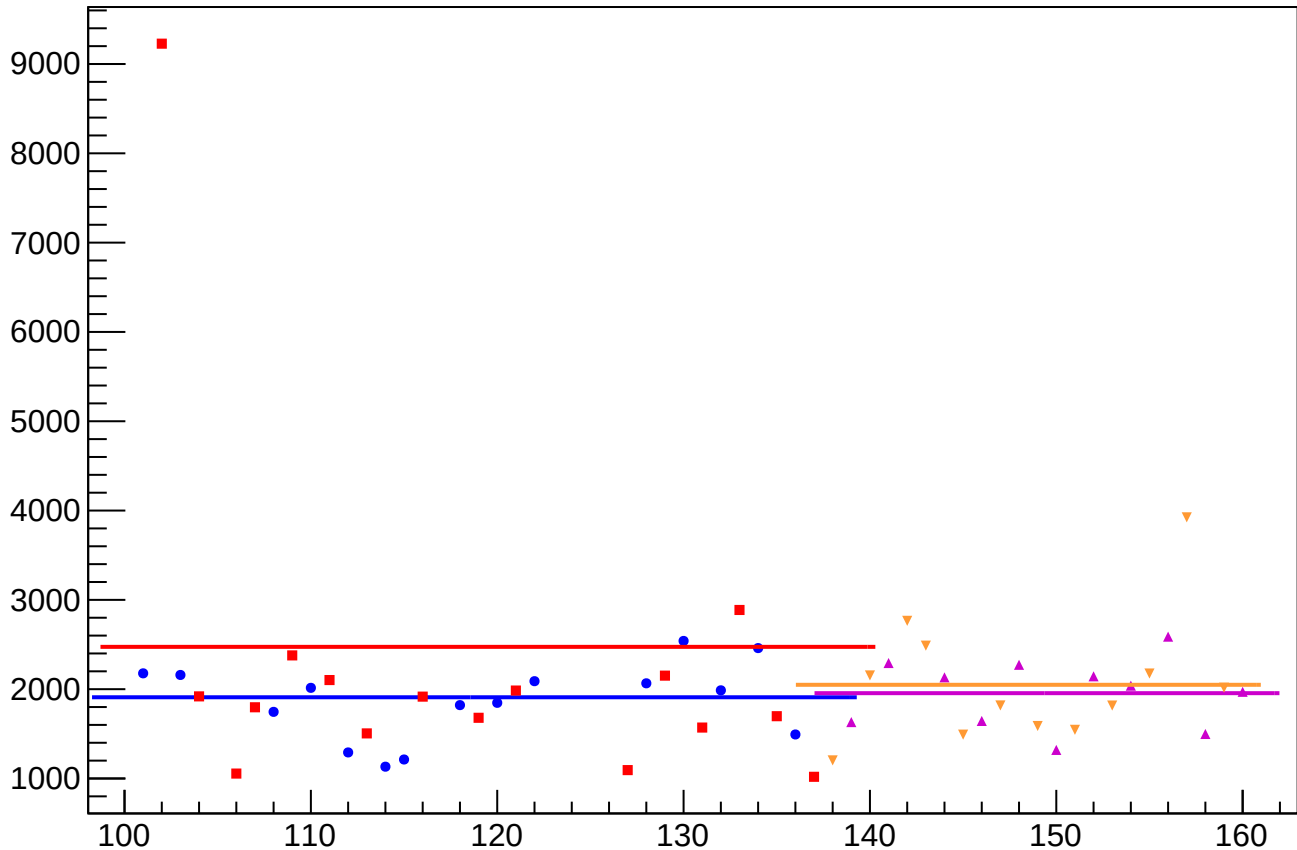


|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 30277.649+/-0.000  | $\chi^2/\text{NDF}$ : 30975974641524142453090022540760519278592.0/14 |
| Left Out: 26400.073+/-0.000  | $\chi^2/\text{NDF}$ : 8523453532066542574243439899008376504320.0/11  |
| Right Out: 28896.318+/-0.000 | $\chi^2/\text{NDF}$ : 46969504058010359146250560228409714147328.0/15 |
| Left In: 27807.237+/-0.000   | $\chi^2/\text{NDF}$ : 6193058620219899678835139815803642183680.0/10  |

+ sign 28007.063+/-0.000  $\chi^2/\text{NDF}$ : 4521346262671  
 All: 28136.456+/-0.000  $\chi^2/\text{NDF}$ : 9888751156  
 - sign 28263.816+/-0.000  $\chi^2/\text{NDF}$ : 5362202344062



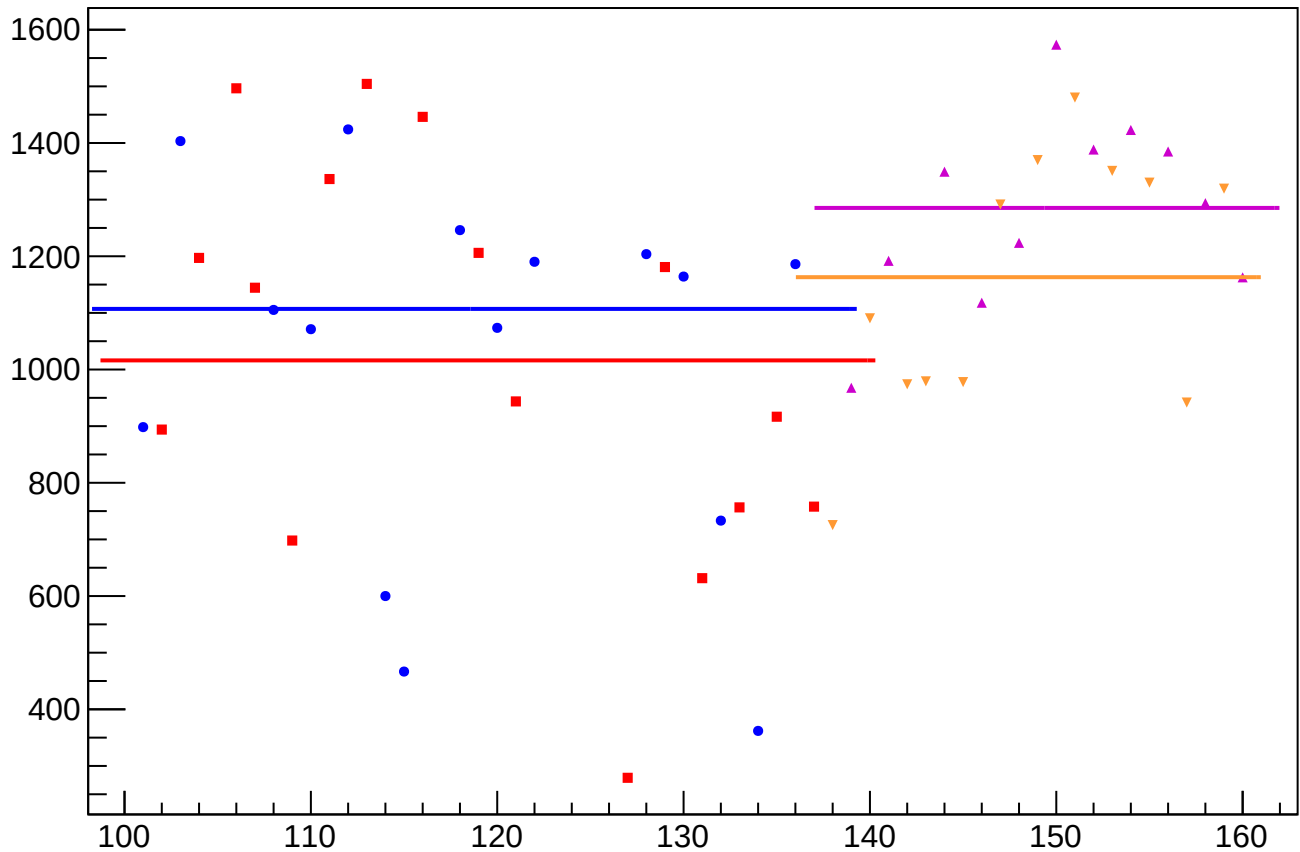
dit\_atr2\_coil4\_err\_mean vs Slug



|                             |                                                                     |
|-----------------------------|---------------------------------------------------------------------|
| Right In: 1909.434+/-0.000  | $\chi^2/\text{NDF}$ : 87636974094211671524177650165869445120.0/14   |
| Left Out: 2049.063+/-0.000  | $\chi^2/\text{NDF}$ : 443721100999295515672674036348509749248.0/11  |
| Right Out: 2473.977+/-0.000 | $\chi^2/\text{NDF}$ : 3033908025746418121738753286600386412544.0/15 |
| Left In: 1955.312+/-0.000   | $\chi^2/\text{NDF}$ : 126909052383838166035294082177347616768.0/10  |

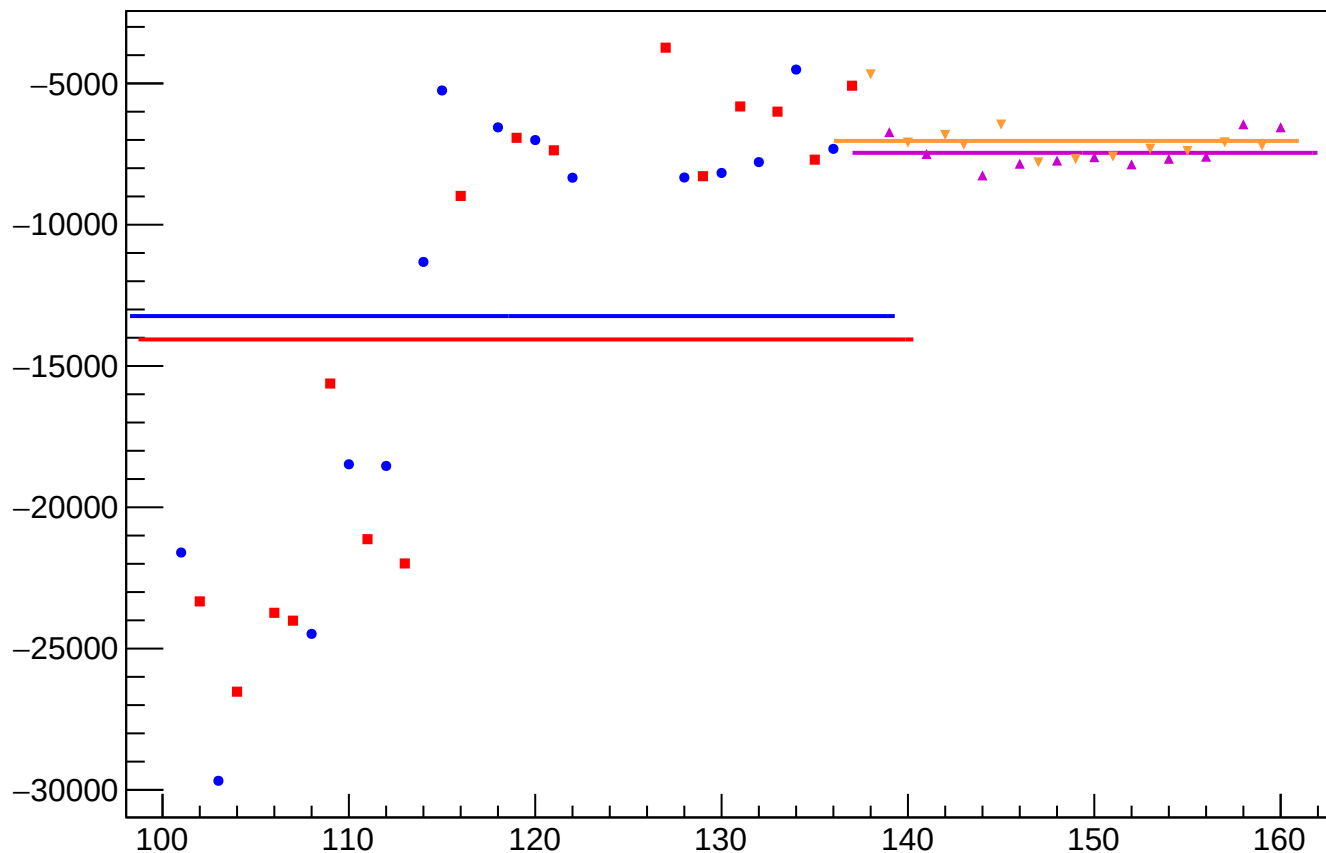
+ sign 1991.196+/-0.000  $\chi^2/\text{NDF}$ : 53876728825382  
 All: 2082.694+/-0.000  $\chi^2/\text{NDF}$ : 38298070306  
 - sign 2172.754+/-0.000  $\chi^2/\text{NDF}$ : 32650251724153

dit\_atr2\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10

dit\_sam1\_coil4\_mean vs Slug



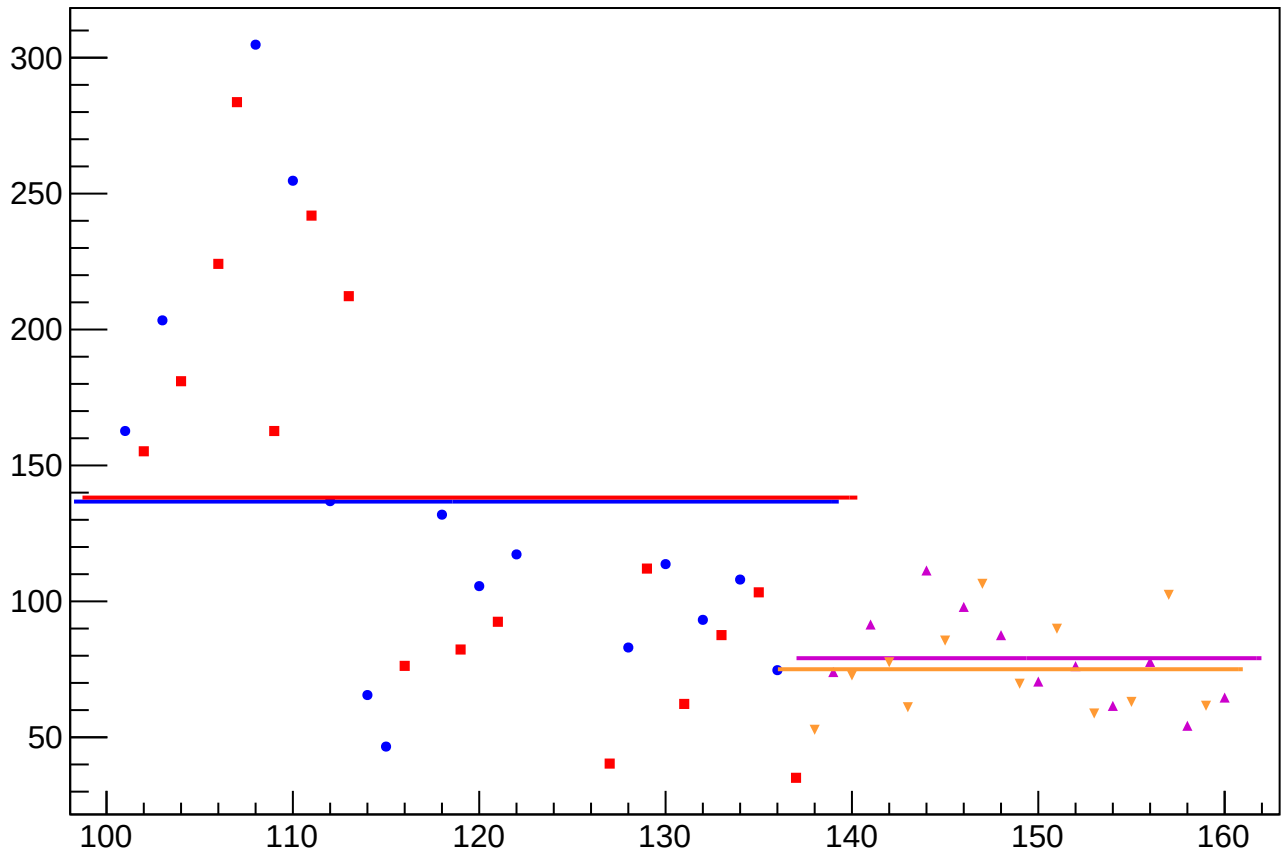
Right In: -13233.367+/-0.000  $\chi^2/\text{NDF}$ : 41257043836213043367596866559499640504320.0/14

Left Out: -7034.420+/-0.000  $\chi^2/\text{NDF}$ : 586087700252049179265432435380023459840.0/11

Right Out: -14060.103+/-0.000  $\chi^2/\text{NDF}$ : 44490594754280161766405556915711386845184.0/15

Left In: -7456.124+/-0.000  $\chi^2/\text{NDF}$ : 284554324589778558842129447316923351040.0/10

# dit\_sam1\_coil4\_err\_mean vs Slug



Right In: 136.711+/-0.000  $\chi^2/\text{NDF}$ : 2687065030885227126291764267456659456.0/14

+ sign 100.594+/-0.000  $\chi^2/\text{NDF}$ : 439844373085825

Left Out: 75.033+/-0.000  $\chi^2/\text{NDF}$ : 265697800274954088415608872374370304.0/11

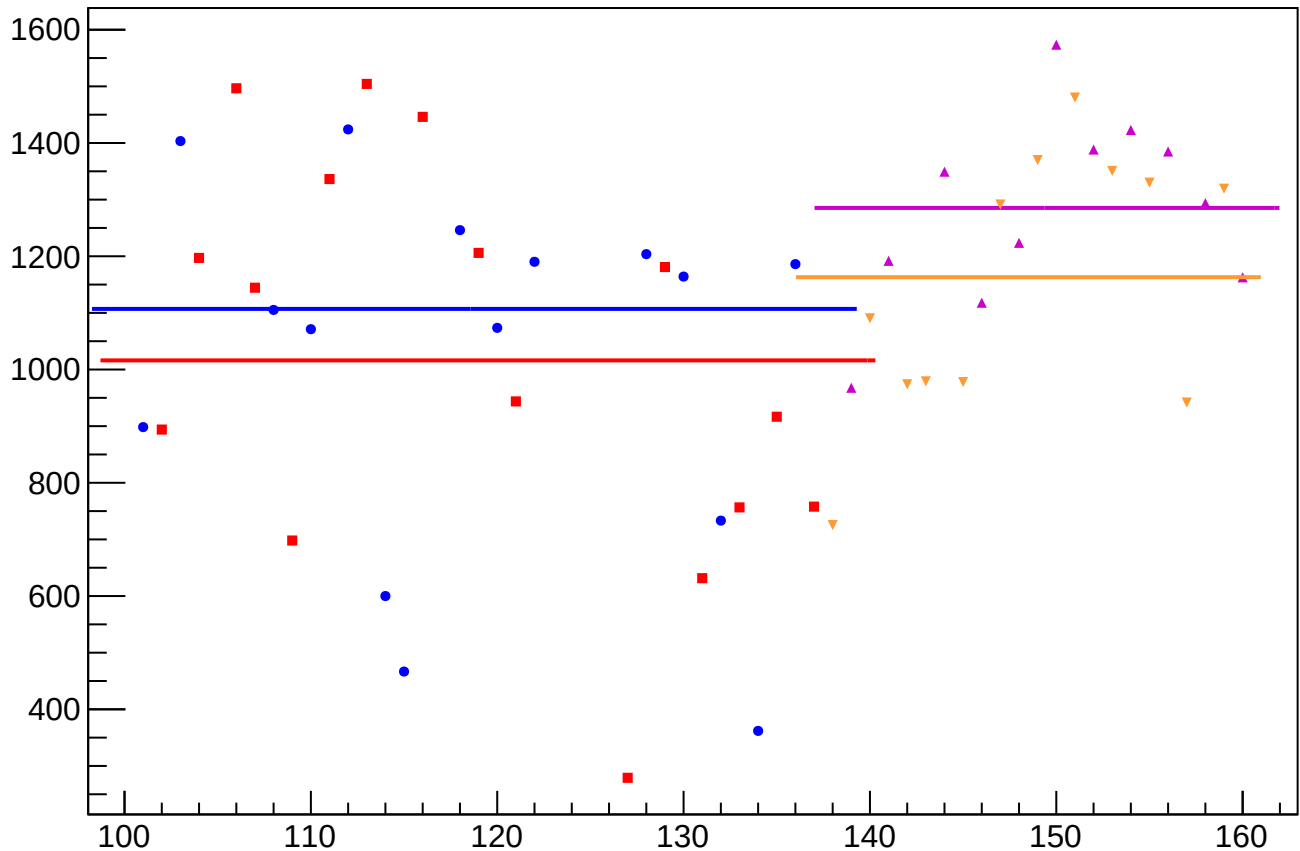
All: 102.243+/-0.000  $\chi^2/\text{NDF}$ : 923398239612

Right Out: 138.179+/-0.000  $\chi^2/\text{NDF}$ : 3230883352878636334641613561898467328.0/15

- sign 103.866+/-0.000  $\chi^2/\text{NDF}$ : 482709269231347

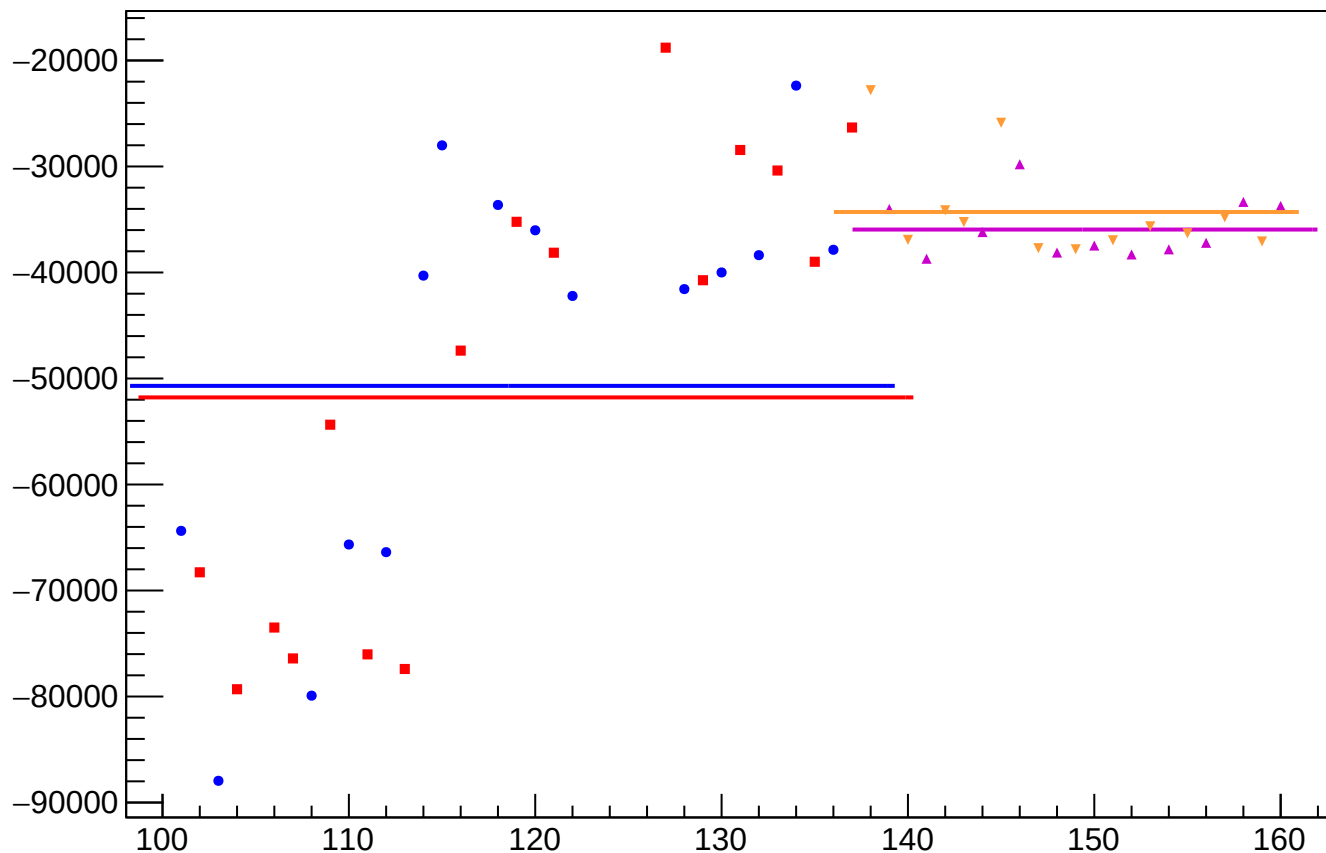
Left In: 79.096+/-0.000  $\chi^2/\text{NDF}$ : 243975342218114768326270780809674752.0/10

dit\_sam1\_coil4\_Ndata\_mean vs Slug



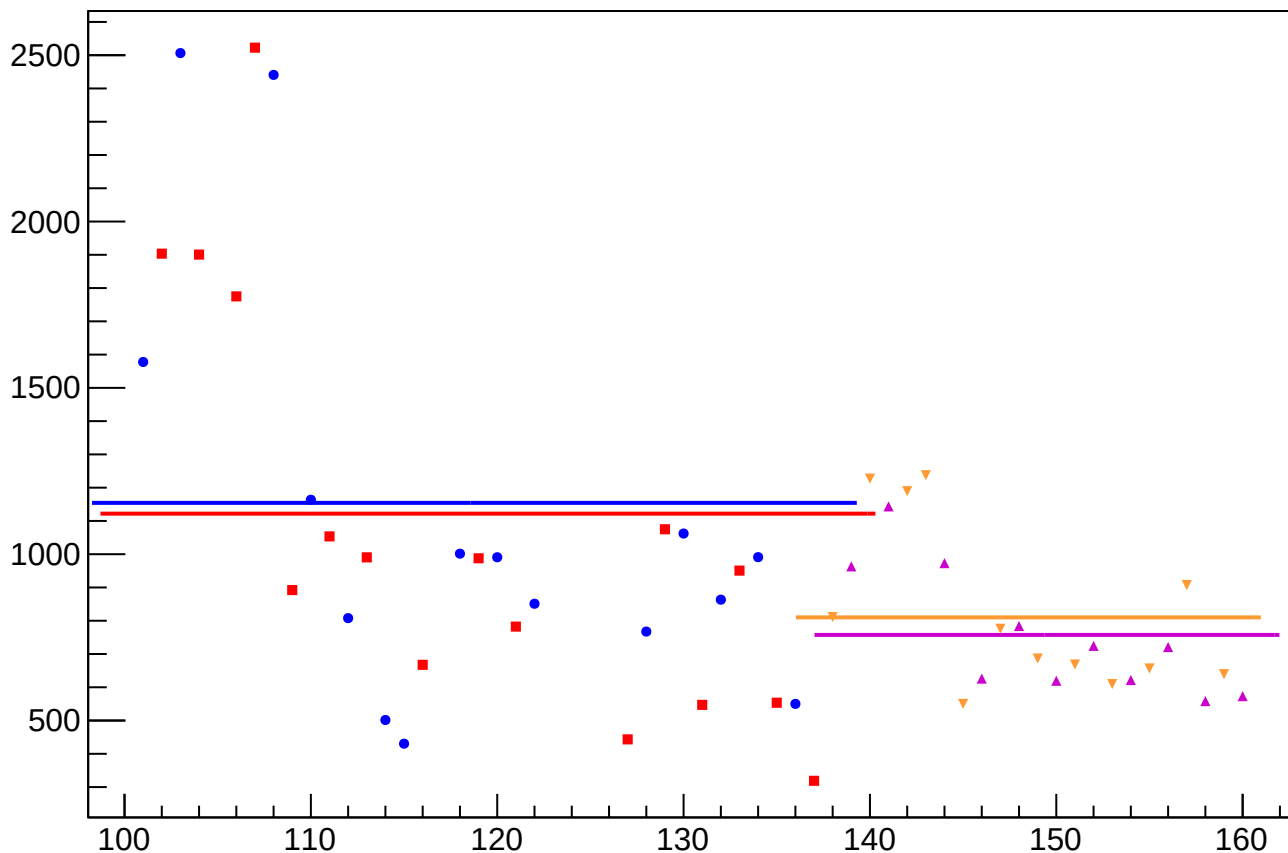
Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292 +/- 0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844 +/- 0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482 +/- 0.000  $\chi^2/\text{NDF}$ : 12465444911625

dit\_sam2\_coil4\_mean vs Slug



Right In: -50695.424+/-0.000  $\chi^2/\text{NDF}$ : 226613585253908576683077761132188355526656.0/14  
 Left Out: -34292.100+/-0.000  $\chi^2/\text{NDF}$ : 20273129403990820789866105908116664090624.0/11  
 Right Out: -51783.912+/-0.000  $\chi^2/\text{NDF}$ : 281789617729131996271154198472617478848512.0/15  
 Left In: -35949.660+/-0.000  $\chi^2/\text{NDF}$ : 6535777806152232441815832130596699635712.0/10

dit\_sam2\_coil4\_err\_mean vs Slug



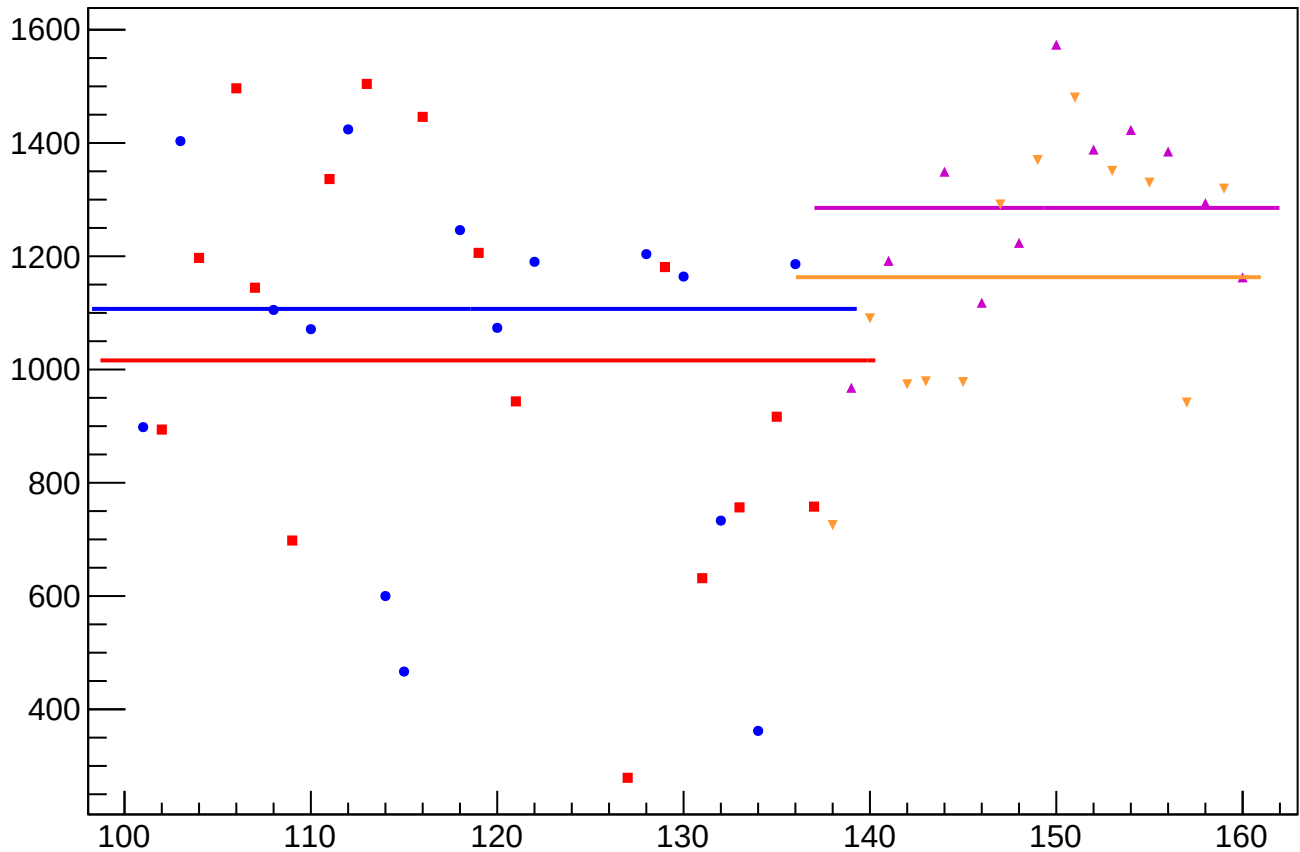
Right In: 1154.331+/-0.000  $\chi^2/\text{NDF}$ : 249270472563470703232737910394663731200.0/14

Left Out: 810.109+/-0.000  $\chi^2/\text{NDF}$ : 49902289627136601603211934324001603584.0/11

Right Out: 1121.934+/-0.000  $\chi^2/\text{NDF}$ : 226159335639567338179811644002797617152.0/15

Left In: 757.349+/-0.000  $\chi^2/\text{NDF}$ : 31036557490853362173363612241828511744.0/10

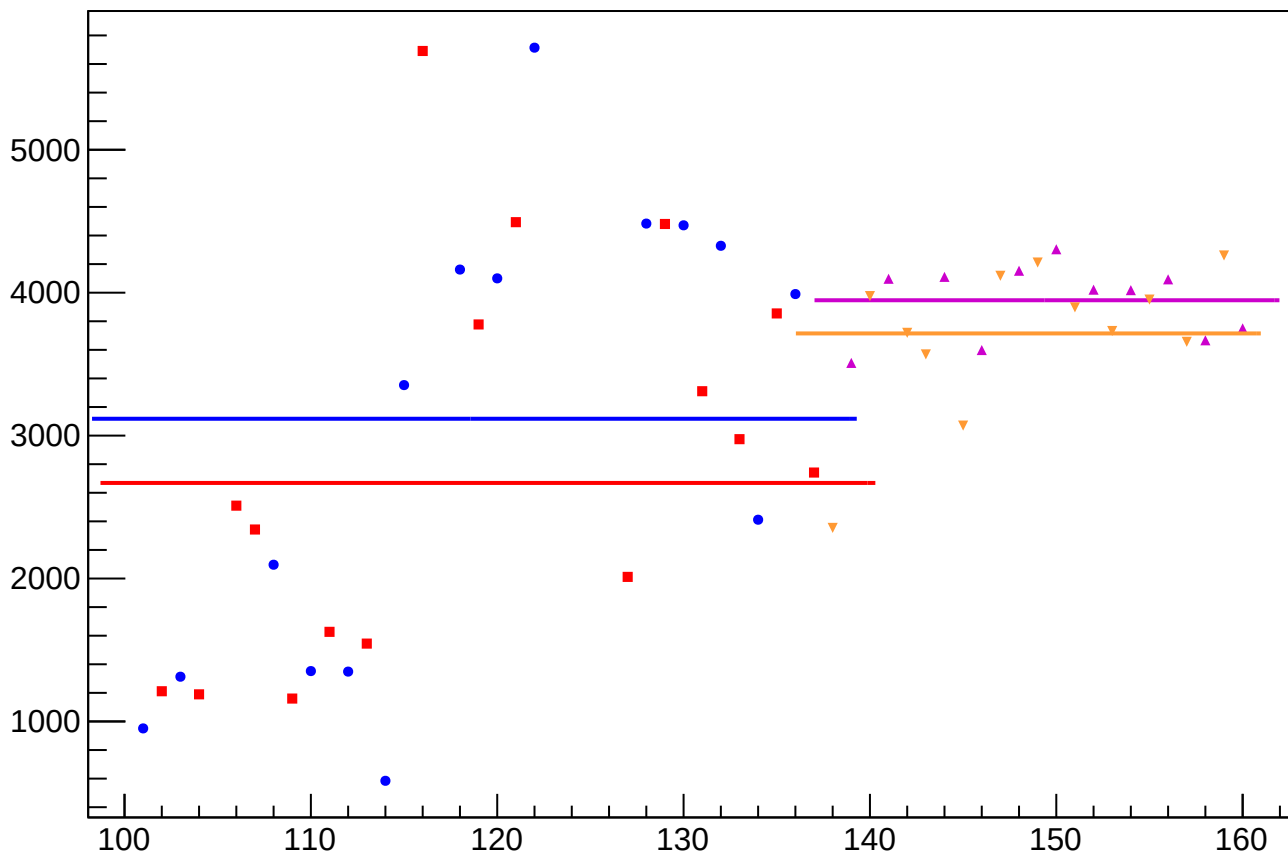
dit\_sam2\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292 +/- 0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844 +/- 0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482 +/- 0.000  $\chi^2/\text{NDF}$ : 12465444911625

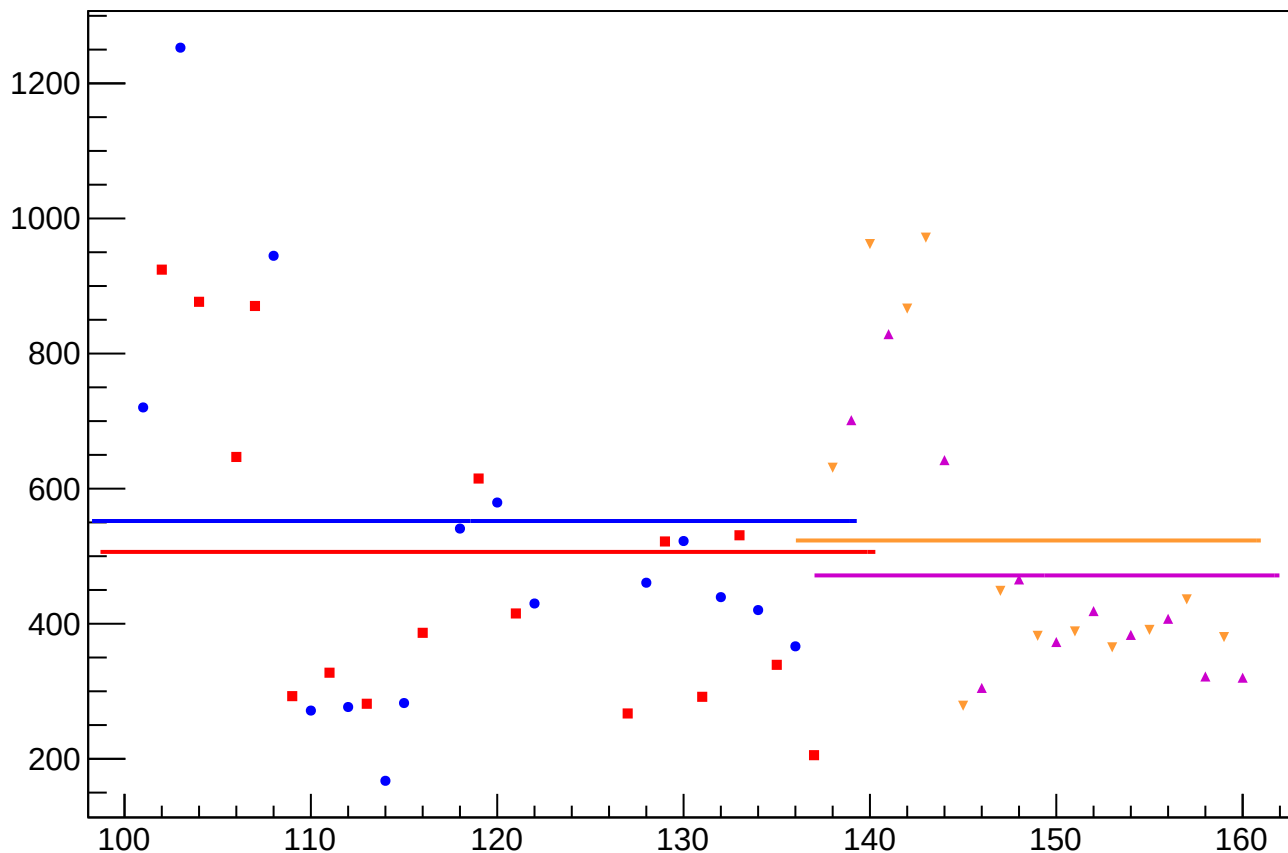


dit\_sam3\_coil4\_mean vs Slug



Right In: 3117.914 $\pm$ 0.000  $\chi^2$ /NDF: 1552738593335565674554918493159210090496.0/14  
 Left Out: 3714.902 $\pm$ 0.000  $\chi^2$ /NDF: 249652403492940962475363372882127224832.0/11  
 Right Out: 2668.794 $\pm$ 0.000  $\chi^2$ /NDF: 1136406286131098596000054422131257114624.0/15  
 Left In: 3947.046 $\pm$ 0.000  $\chi^2$ /NDF: 56963661018859057070812095134472077312.0/10

dit\_sam3\_coil4\_err\_mean vs Slug



Right In: 552.108+/-0.000  $\chi^2/\text{NDF}$ : 50739041741159119848523988236001869824.0/14

Left Out: 523.267+/-0.000  $\chi^2/\text{NDF}$ : 49702866244992097410386834059494948864.0/11

Right Out: 506.345+/-0.000  $\chi^2/\text{NDF}$ : 37181653297314883501659131806010572800.0/15

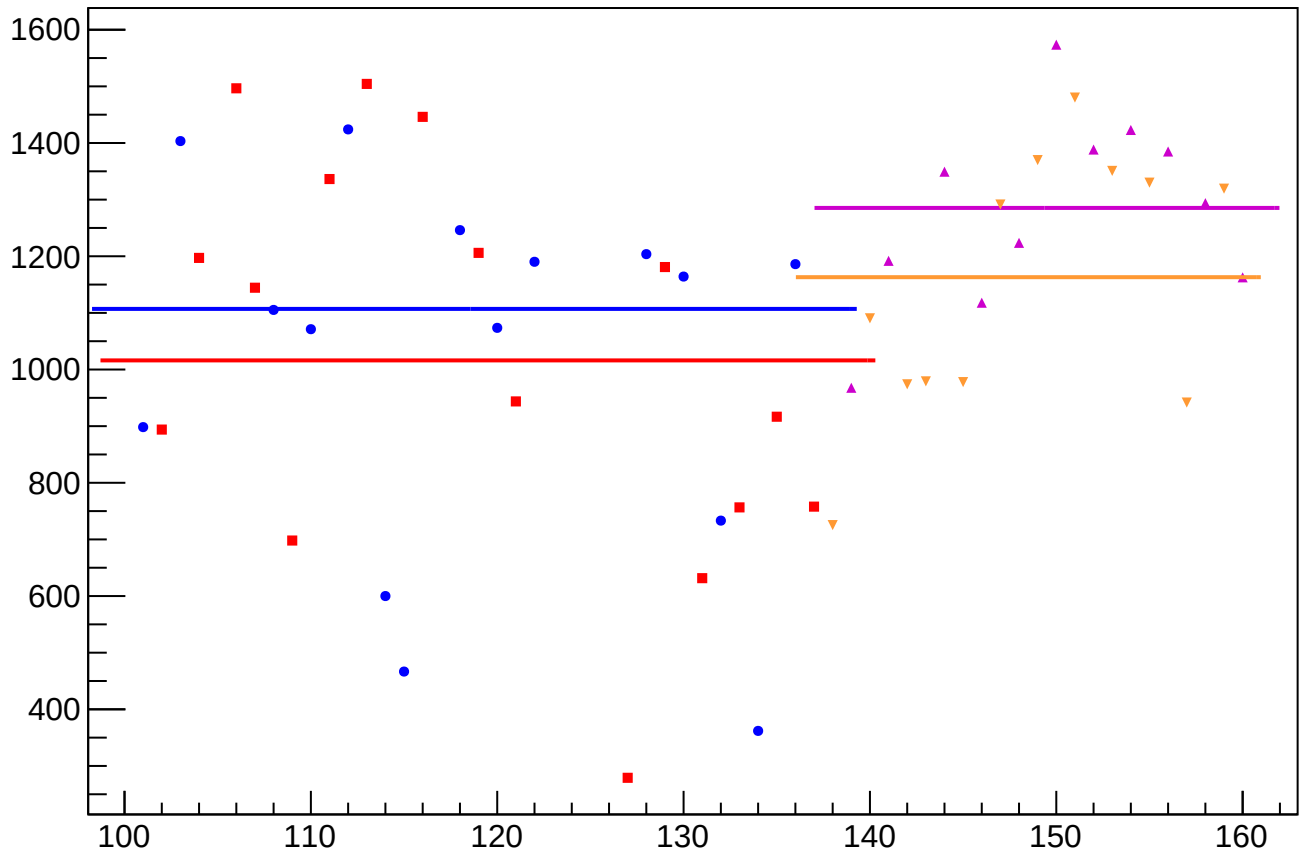
Left In: 471.540+/-0.000  $\chi^2/\text{NDF}$ : 25680884477827715914944205366363160576.0/10

+ sign 535.220+/-0.000  $\chi^2/\text{NDF}$ : 100758027166631

All: 510.481+/-0.000  $\chi^2/\text{NDF}$ : 165991542524

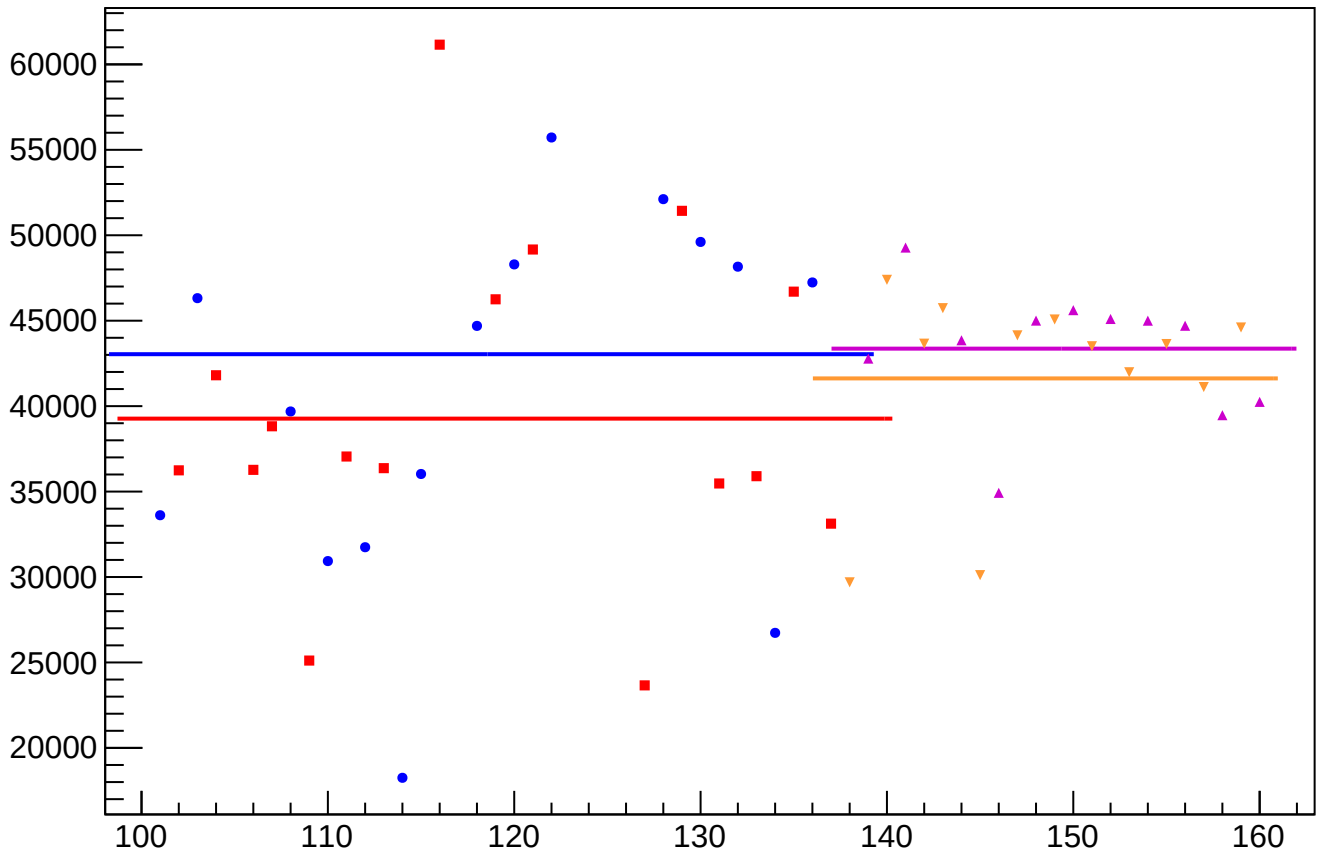
- sign 486.131+/-0.000  $\chi^2/\text{NDF}$ : 633318102977421

dit\_sam3\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292 +/- 0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844 +/- 0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482 +/- 0.000  $\chi^2/\text{NDF}$ : 12465444911625

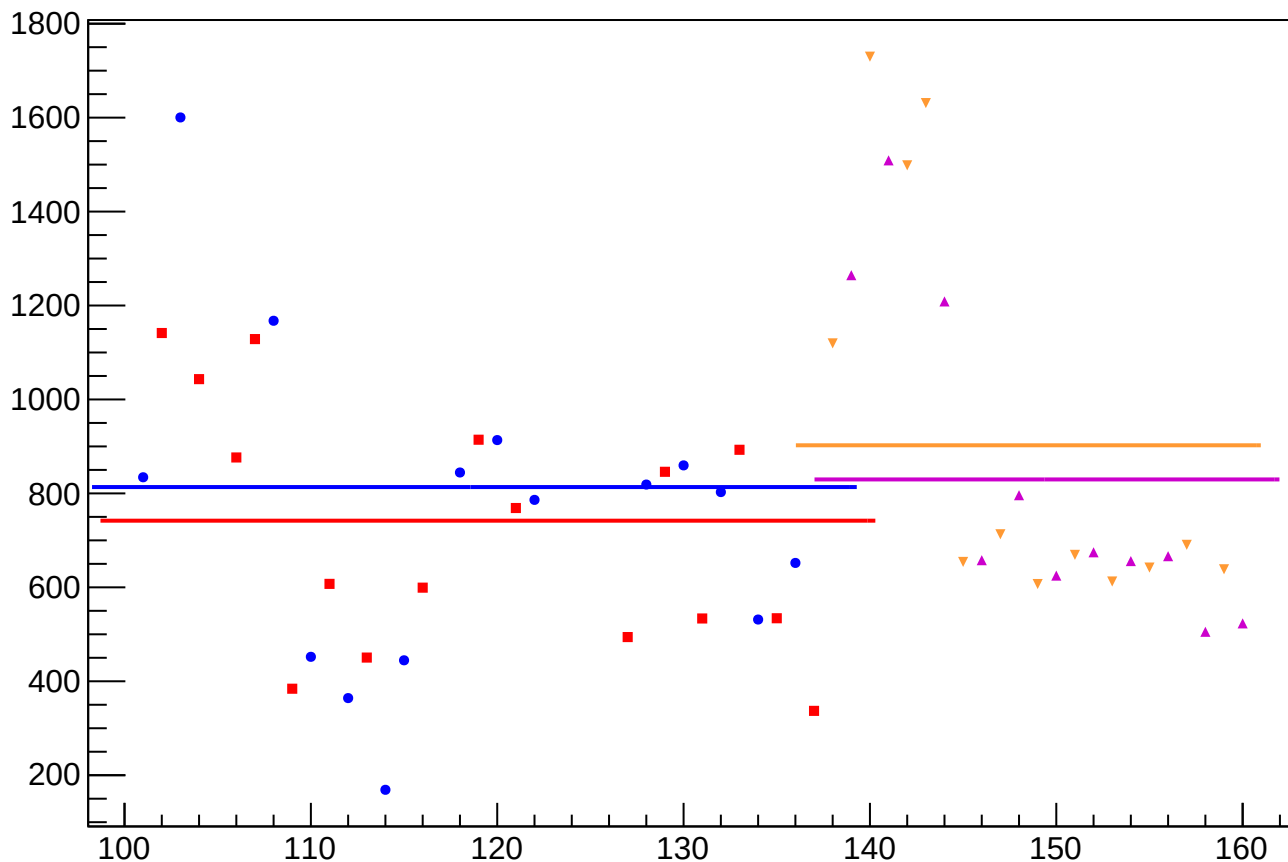
dit\_sam4\_coil4\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 43039.927+/-0.000  | $\chi^2/\text{NDF}$ : 48397052922561722652666786407552179503104.0/14 |
| Left Out: 41622.622+/-0.000  | $\chi^2/\text{NDF}$ : 28728414397722339003377552504288532496384.0/11 |
| Right Out: 39269.627+/-0.000 | $\chi^2/\text{NDF}$ : 51873036517757666237545716605051585167360.0/15 |
| Left In: 43364.892+/-0.000   | $\chi^2/\text{NDF}$ : 12209695723681592241000188414954802511872.0/10 |

+ sign 42209.998+/-0.000  $\chi^2/\text{NDF}$ : 7788886231036  
 All: 41926.784+/-0.000  $\chi^2/\text{NDF}$ : 1487175221  
 - sign 41648.021+/-0.000  $\chi^2/\text{NDF}$ : 7057941602179

dit\_sam4\_coil4\_err\_mean vs Slug



Right In: 813.500 $\pm$ 0.000  $\chi^2$ /NDF: 67120916816548237638948787518351343616.0/14

+ sign 865.569 $\pm$ 0.000  $\chi^2$ /NDF: 222844128220423

Left Out: 902.421 $\pm$ 0.000  $\chi^2$ /NDF: 152718326074036425760692281422815166464.0/11

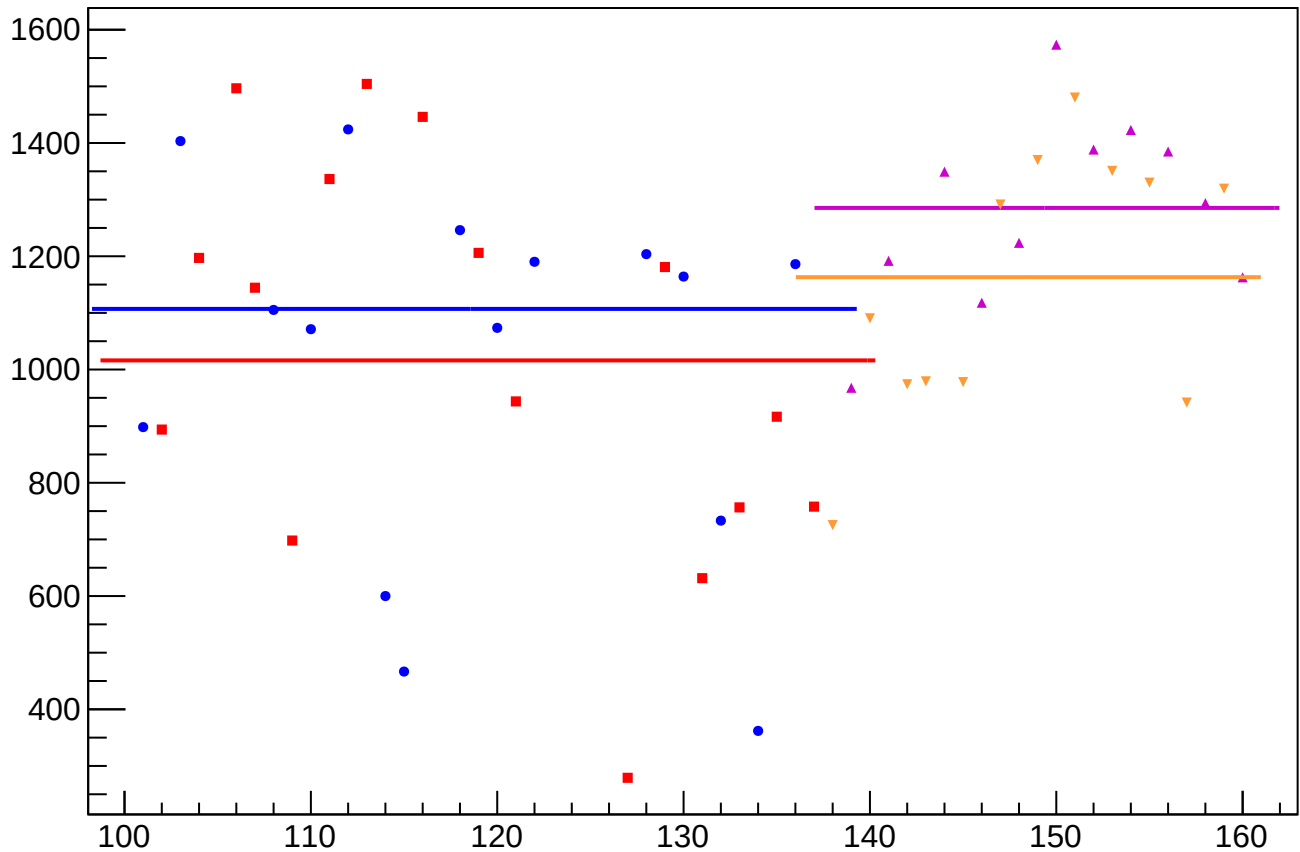
All: 828.949 $\pm$ 0.000  $\chi^2$ /NDF: 37014966283

Right Out: 741.911 $\pm$ 0.000  $\chi^2$ /NDF: 44074134397215409235604746432671645696.0/15

- sign 792.905 $\pm$ 0.000  $\chi^2$ /NDF: 143138450835251

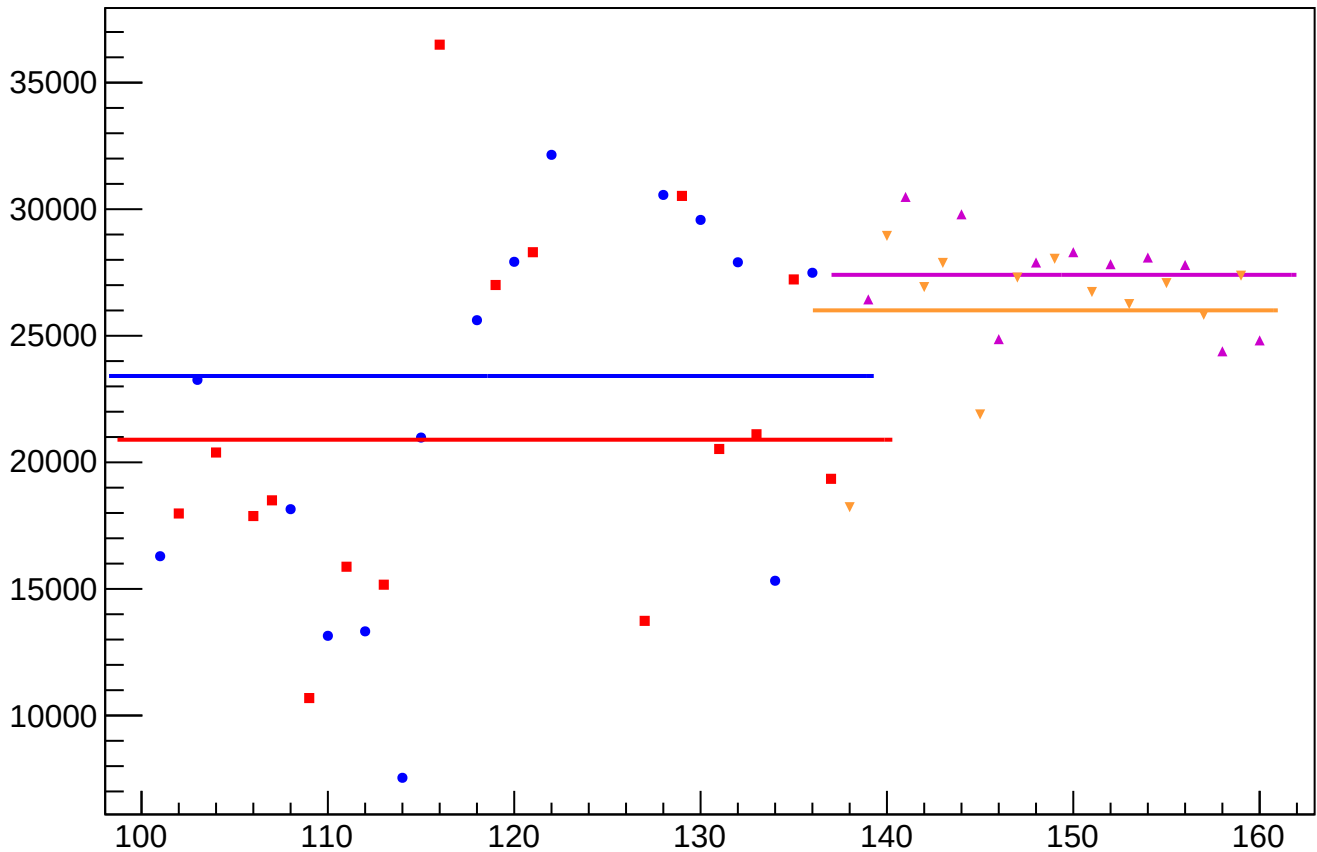
Left In: 829.715 $\pm$ 0.000  $\chi^2$ /NDF: 96077836071623048341749512260917657600.0/10

dit\_sam4\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292 +/- 0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844 +/- 0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482 +/- 0.000  $\chi^2/\text{NDF}$ : 12465444911625

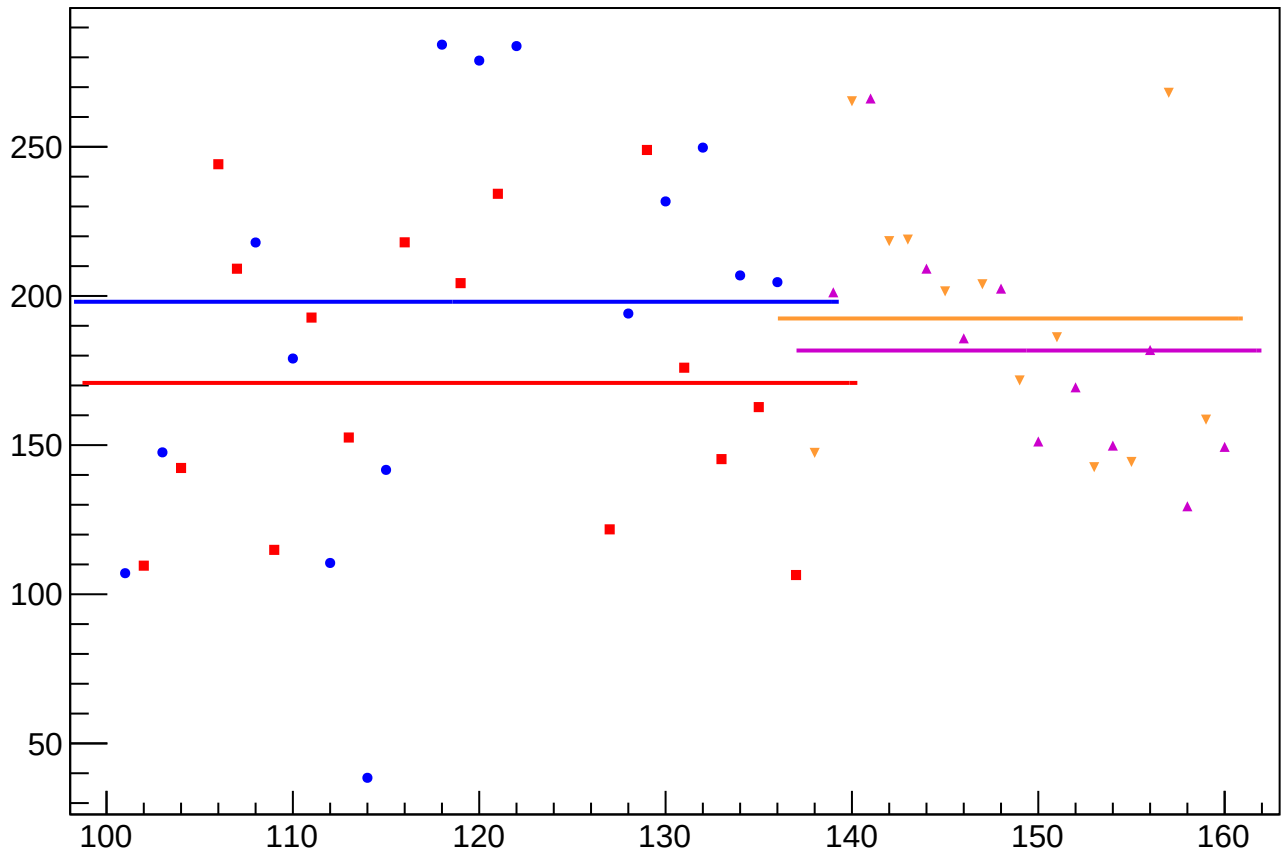
dit\_sam5\_coil4\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 23411.506+/-0.000  | $\chi^2/\text{NDF}$ : 28427457471780319352885746571315708428288.0/14 |
| Left Out: 26004.082+/-0.000  | $\chi^2/\text{NDF}$ : 7839626408572155503333833682521065259008.0/11  |
| Right Out: 20894.122+/-0.000 | $\chi^2/\text{NDF}$ : 27408965804578649107002909409987218374656.0/15 |
| Left In: 27407.255+/-0.000   | $\chi^2/\text{NDF}$ : 3322659858866093858426557456838465421312.0/10  |

+ sign 24929.637+/-0.000  $\chi^2/\text{NDF}$ : 3882146204538  
 All: 24802.184+/-0.000  $\chi^2/\text{NDF}$ : 8603621147  
 - sign 24676.734+/-0.000  $\chi^2/\text{NDF}$ : 4716427212055

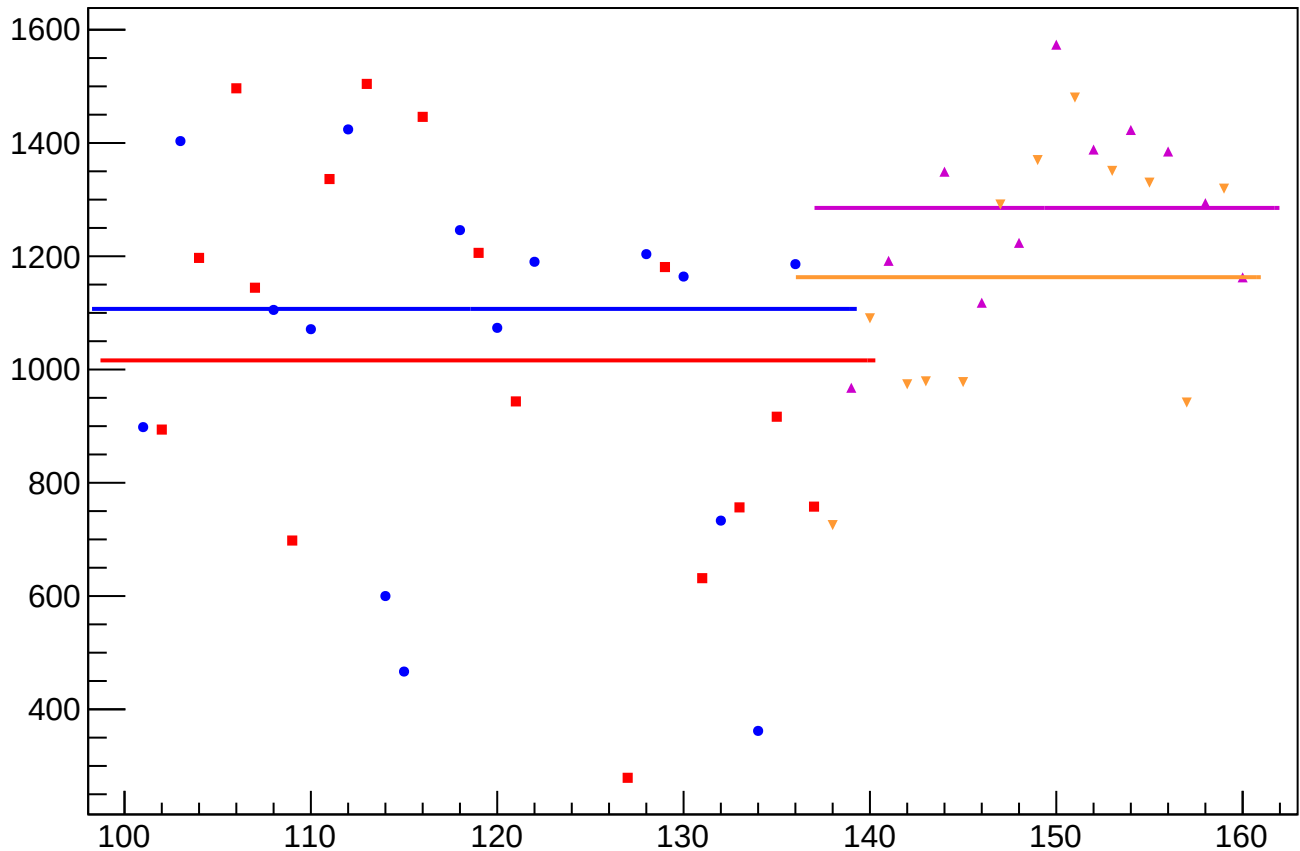
dit\_sam5\_coil4\_err\_mean vs Slug



Right In: 198.056+/-0.000  $\chi^2/\text{NDF}$ : 2482928792293864415922382990034862080.0/14  
 Left Out: 192.452+/-0.000  $\chi^2/\text{NDF}$ : 1667687947841400069416399021327515648.0/11  
 Right Out: 170.851+/-0.000  $\chi^2/\text{NDF}$ : 1418314816915016425155520631536615424.0/15  
 Left In: 181.711+/-0.000  $\chi^2/\text{NDF}$ : 1228549704796737698218369408017891328.0/10

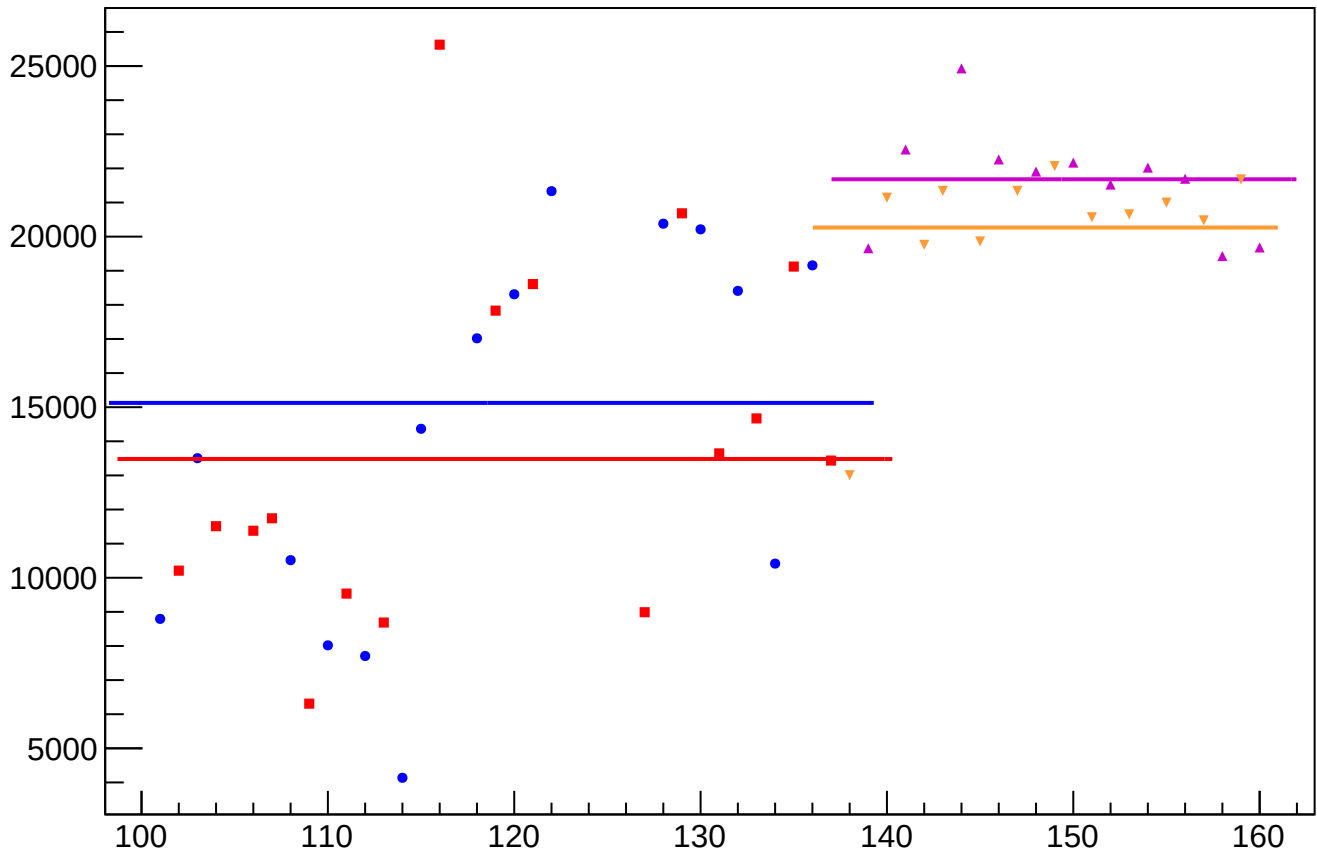


dit\_sam5\_coil4\_Ndata\_mean vs Slug



|                             |                                                                   |                         |                                      |
|-----------------------------|-------------------------------------------------------------------|-------------------------|--------------------------------------|
| Right In: 1107.052+/-0.000  | $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14 | + sign 1139.844+/-0.000 | $\chi^2/\text{NDF}$ : 87570338044863 |
| Left Out: 1163.051+/-0.000  | $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11 | All: 1156.292+/-0.000   | $\chi^2/\text{NDF}$ : 21306550198    |
| Right Out: 1016.106+/-0.000 | $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15 | - sign 1172.482+/-0.000 | $\chi^2/\text{NDF}$ : 12465444911625 |
| Left In: 1285.364+/-0.000   | $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10 |                         |                                      |

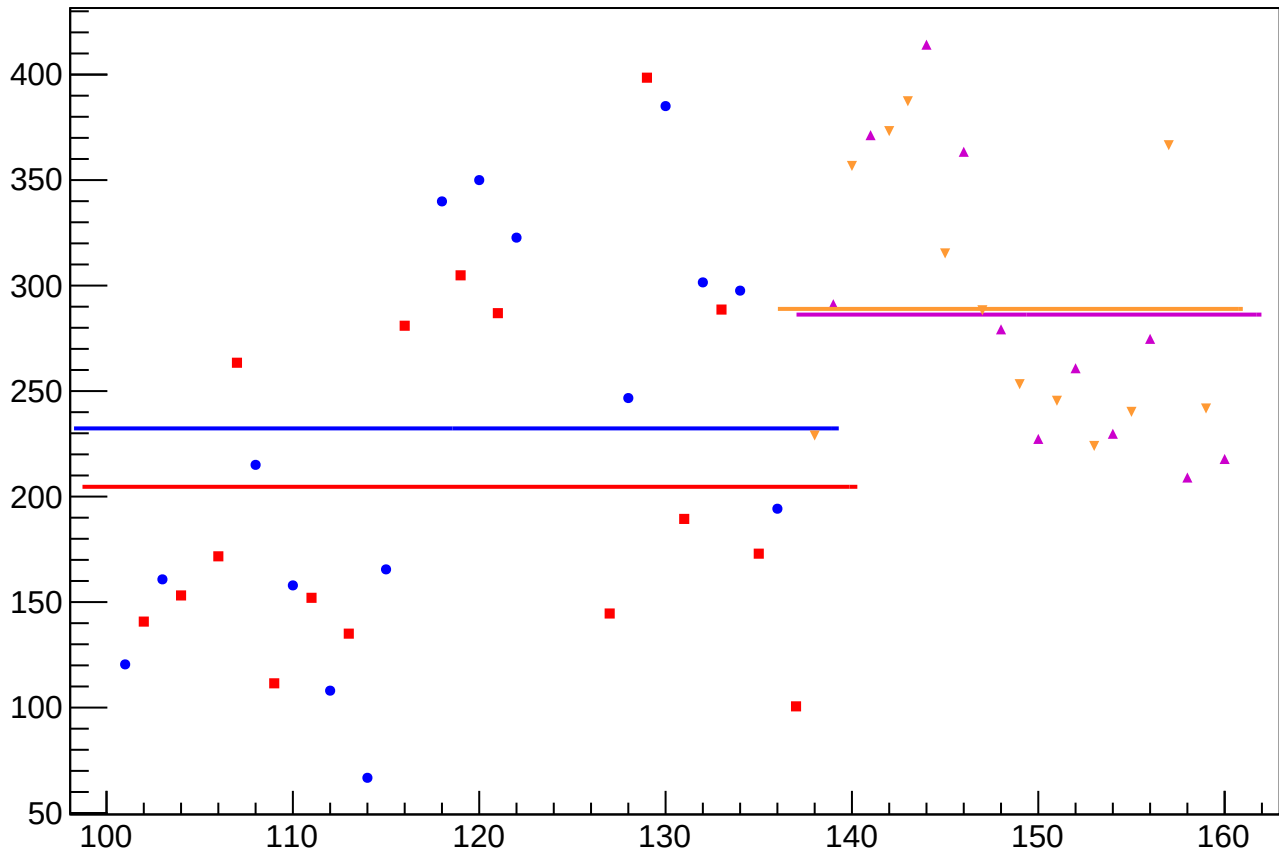
# dit\_sam6\_coil4\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: 15125.834+/-0.000  | $\chi^2/\text{NDF}$ : 16615438767664069151744668380763246297088.0/14 |
| Left Out: 20266.540+/-0.000  | $\chi^2/\text{NDF}$ : 4863660224752470739172242695454111825920.0/11  |
| Right Out: 13482.244+/-0.000 | $\chi^2/\text{NDF}$ : 159104264754078252502248749810022088704.0/15   |
| Left In: 21681.241+/-0.000   | $\chi^2/\text{NDF}$ : 2108874573649202621711530332866310307840.0/10  |

+ sign 18136.069+/-0.000  $\chi^2/\text{NDF}$ : 3152220068910  
 All: 18190.436+/-0.000  $\chi^2/\text{NDF}$ : 7559116813  
 - sign 18243.949+/-0.000  $\chi^2/\text{NDF}$ : 4405978256455

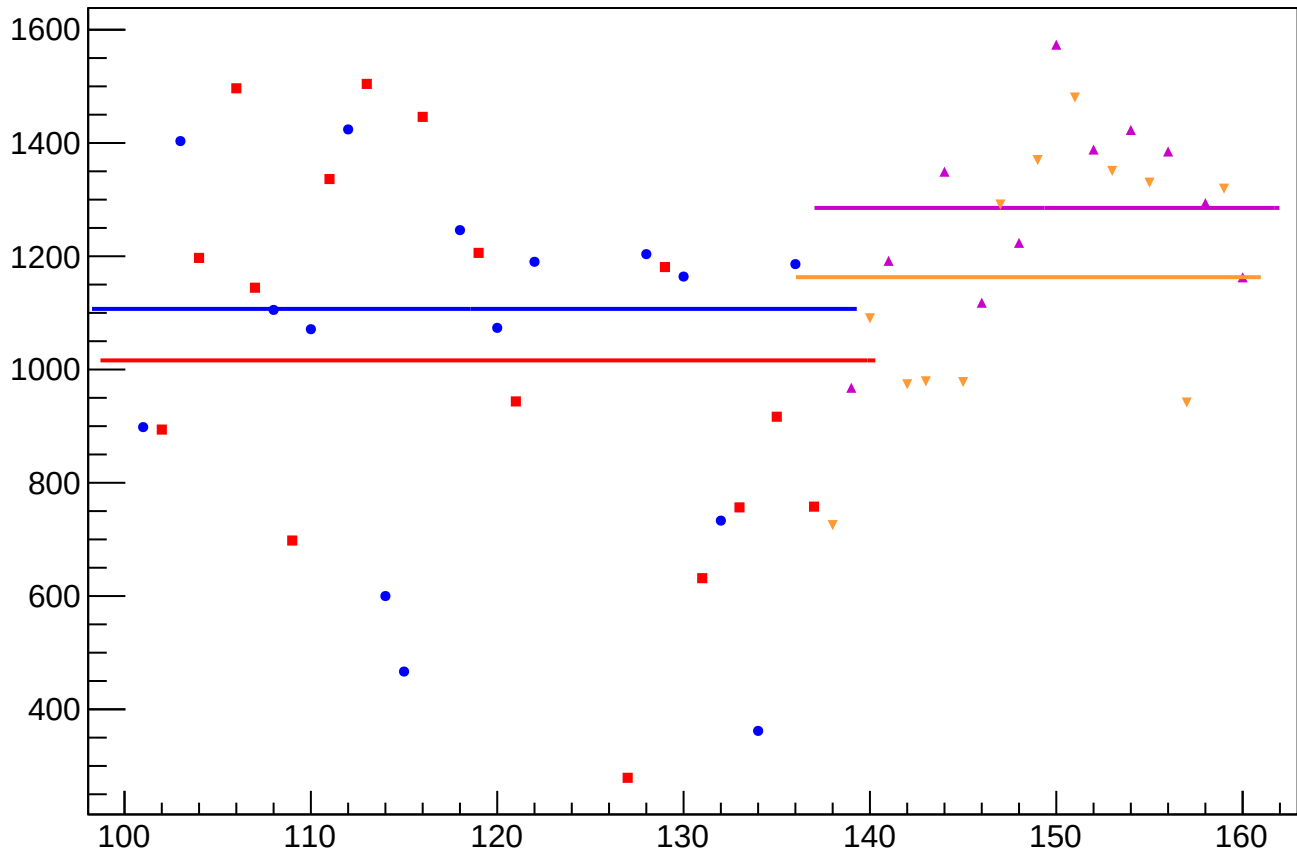
dit\_sam6\_coil4\_err\_mean vs Slug



Right In: 232.312+/-0.000  $\chi^2/\text{NDF}$ : 5478184144885833956204804001180418048.0/14  
 Left Out: 288.949+/-0.000  $\chi^2/\text{NDF}$ : 3144080021405635930356092886432350208.0/11  
 Right Out: 204.637+/-0.000  $\chi^2/\text{NDF}$ : 4555067046835230017930882867882098688.0/15  
 Left In: 286.246+/-0.000  $\chi^2/\text{NDF}$ : 4067110443230234744644750983181631488.0/10

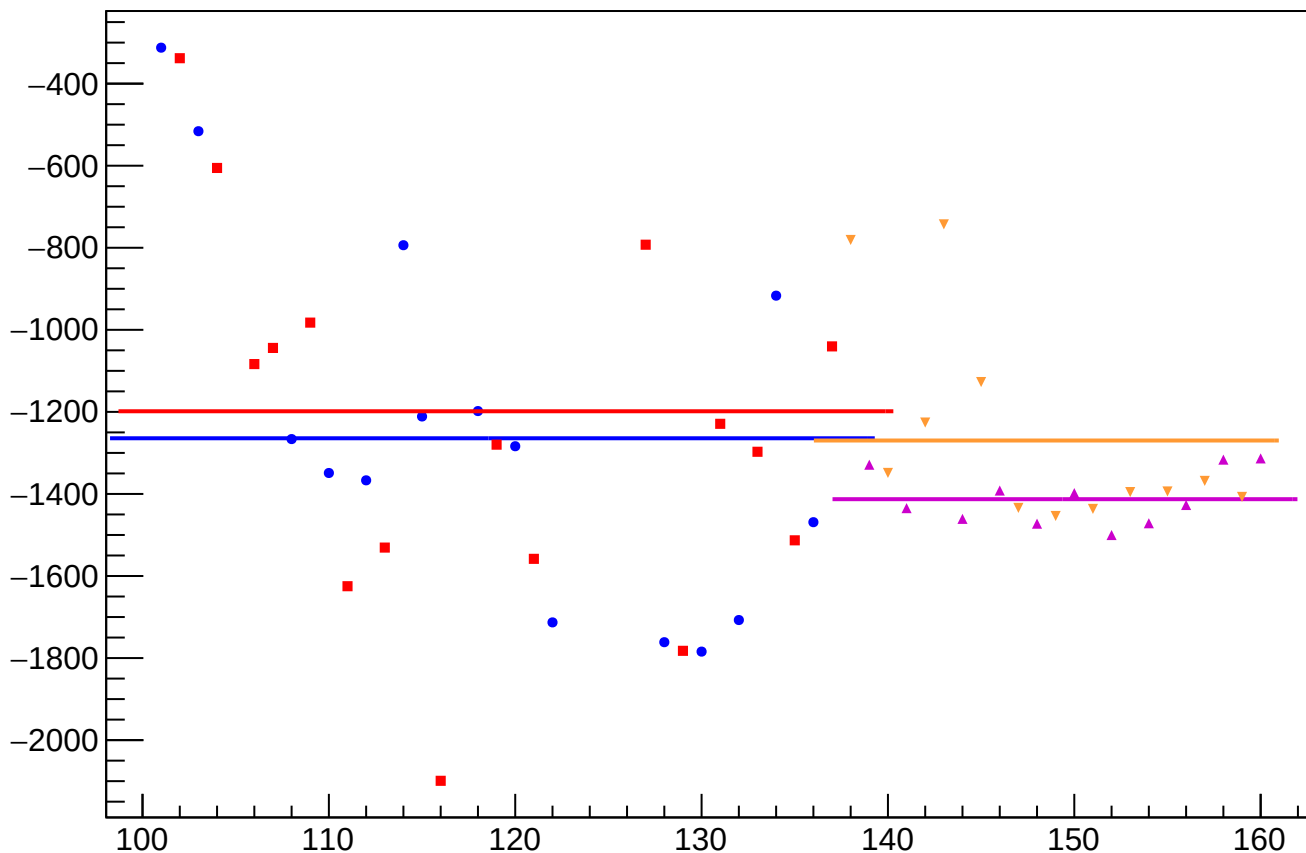
+ sign 265.477+/-0.000  $\chi^2/\text{NDF}$ : 984130462925206  
 All: 258.702+/-0.000  $\chi^2/\text{NDF}$ : 21186037696  
 - sign 252.033+/-0.000  $\chi^2/\text{NDF}$ : 112020972383493

dit\_sam6\_coil4\_Ndata\_mean vs Slug



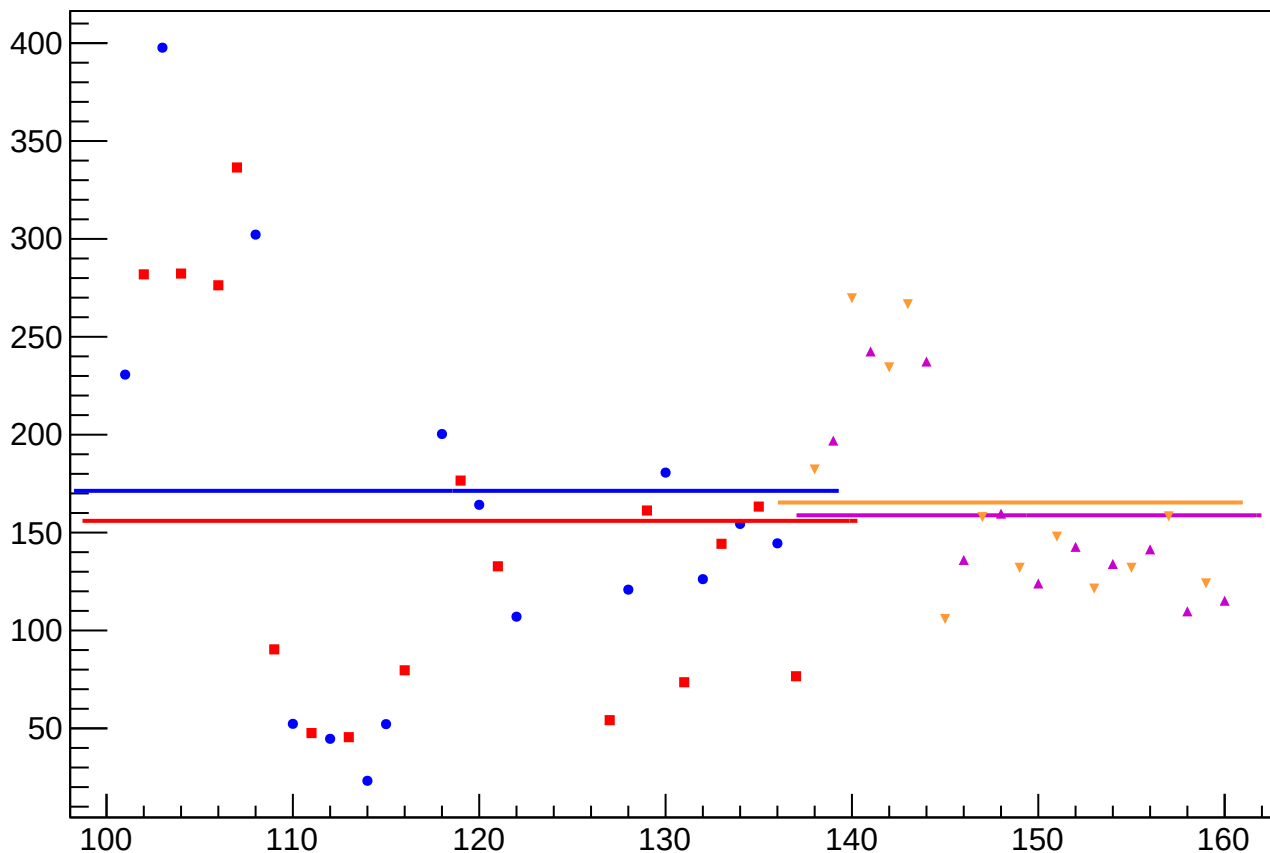
Right In: 1107.052 +/- 0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051 +/- 0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106 +/- 0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364 +/- 0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292 +/- 0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844 +/- 0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482 +/- 0.000  $\chi^2/\text{NDF}$ : 12465444911625

dit\_sam7\_coil4\_mean vs Slug



Right In:  $-1264.303 \pm 0.000$   $\chi^2/\text{NDF}: 140215251538502657549173994543931981824.0/14$   
 Left Out:  $-1269.744 \pm 0.000$   $\chi^2/\text{NDF}: 51411109749220710488956261055634341888.0/11$   
 Right Out:  $-1198.483 \pm 0.000$   $\chi^2/\text{NDF}: 131164763898016793515492217696167133184.0/15$   
 Left In:  $-1412.771 \pm 0.000$   $\chi^2/\text{NDF}: 3642959557366432228461510163957809152.0/10$

dit\_sam7\_coil4\_err\_mean vs Slug



Right In: 171.323+/-0.000  $\chi^2/\text{NDF}$ : 6120975075187305509795143064993398784.0/14

Left Out: 165.375+/-0.000  $\chi^2/\text{NDF}$ : 2622335351174785803279271276281069568.0/11

Right Out: 155.993+/-0.000  $\chi^2/\text{NDF}$ : 5680659281504595852021524727244783616.0/15

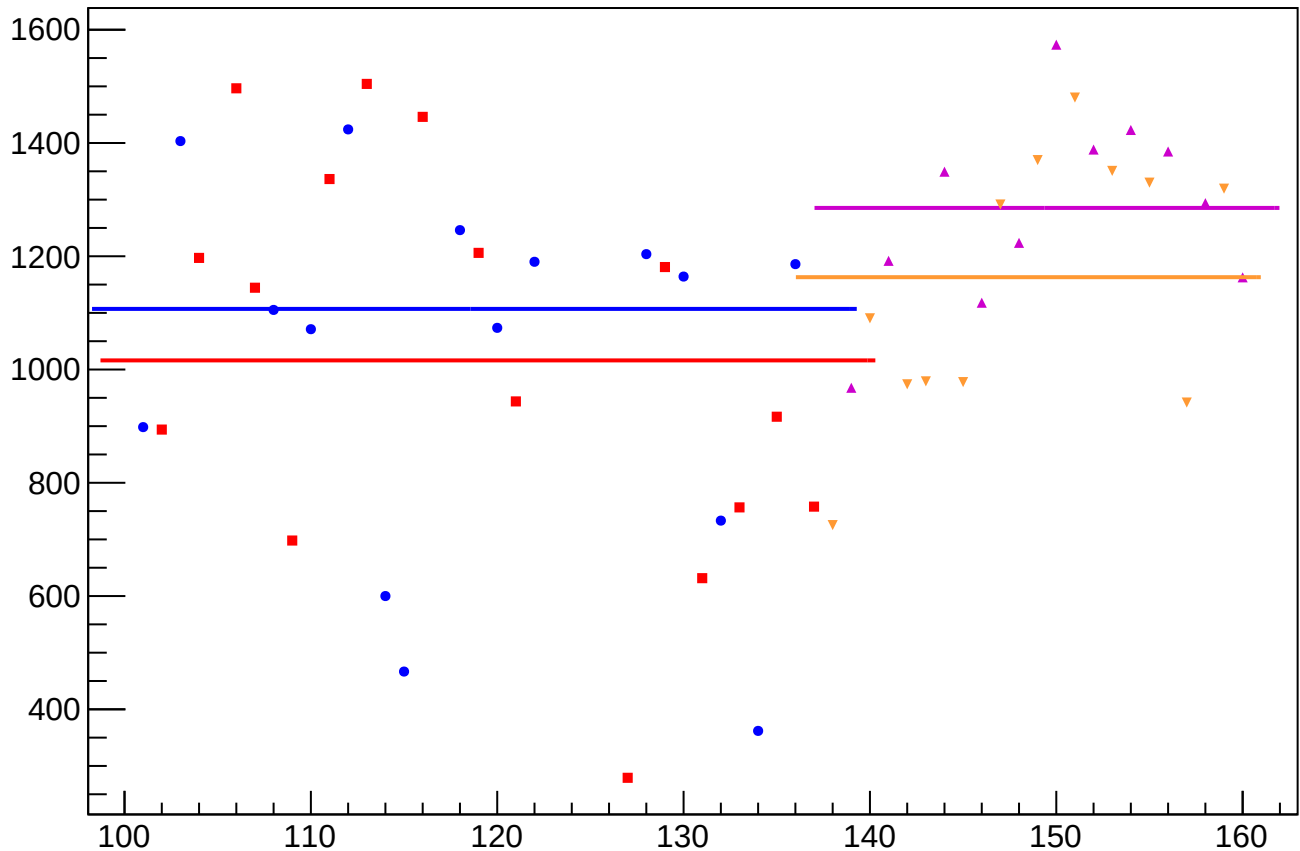
Left In: 158.834+/-0.000  $\chi^2/\text{NDF}$ : 1853310895668256586520412981739651072.0/10

+ sign 167.840+/-0.000  $\chi^2/\text{NDF}$ : 875675526414248

All: 162.701+/-0.000  $\chi^2/\text{NDF}$ : 16375906159

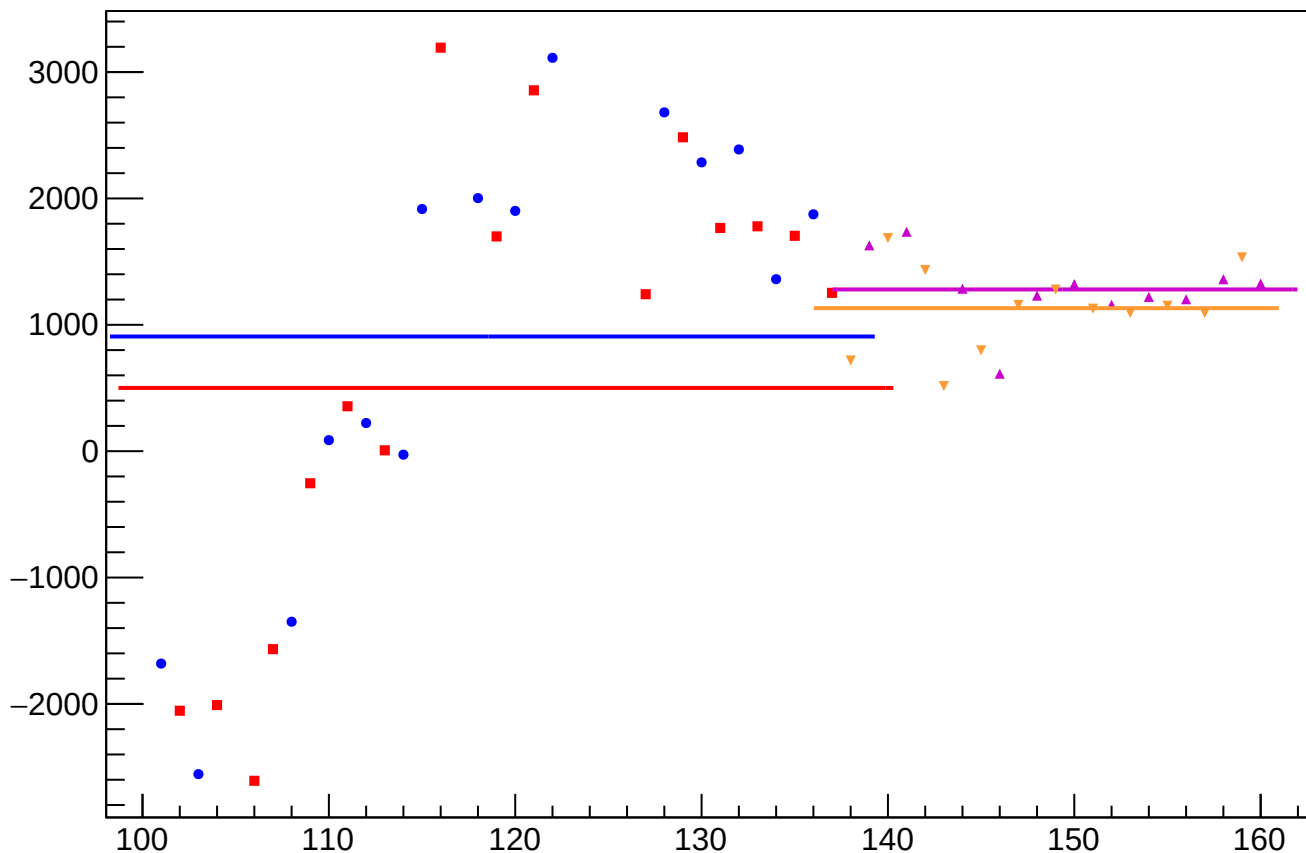
- sign 157.643+/-0.000  $\chi^2/\text{NDF}$ : 753709484799884

dit\_sam7\_coil4\_Ndata\_mean vs Slug



Right In: 1107.052+/-0.000  $\chi^2/\text{NDF}$ : 40633831787810179240542210398269472768.0/14  
 Left Out: 1163.051+/-0.000  $\chi^2/\text{NDF}$ : 45744768397049445452124121981603807232.0/11  
 Right Out: 1016.106+/-0.000  $\chi^2/\text{NDF}$ : 72567664333509192712184310037150171136.0/15  
 Left In: 1285.364+/-0.000  $\chi^2/\text{NDF}$ : 24002572803732345959736048095514853376.0/10  
 All: 1156.292+/-0.000  $\chi^2/\text{NDF}$ : 21306550198  
 + sign 1139.844+/-0.000  $\chi^2/\text{NDF}$ : 87570338044863  
 - sign 1172.482+/-0.000  $\chi^2/\text{NDF}$ : 12465444911625

# dit\_sam8\_coil4\_mean vs Slug



Right In: 907.442+/-0.000  $\chi^2/\text{NDF}$ : 2107238007691848638499662178406566461440.0/14

Left Out: 1131.794+/-0.000  $\chi^2/\text{NDF}$ : 92327464318942529302079754204983853056.0/11

Right Out: 500.689+/-0.000  $\chi^2/\text{NDF}$ : 2074232918749953174436803426379074895872.0/15

Left In: 1279.995+/-0.000  $\chi^2/\text{NDF}$ : 67592304703884032028559239448782438400.0/10

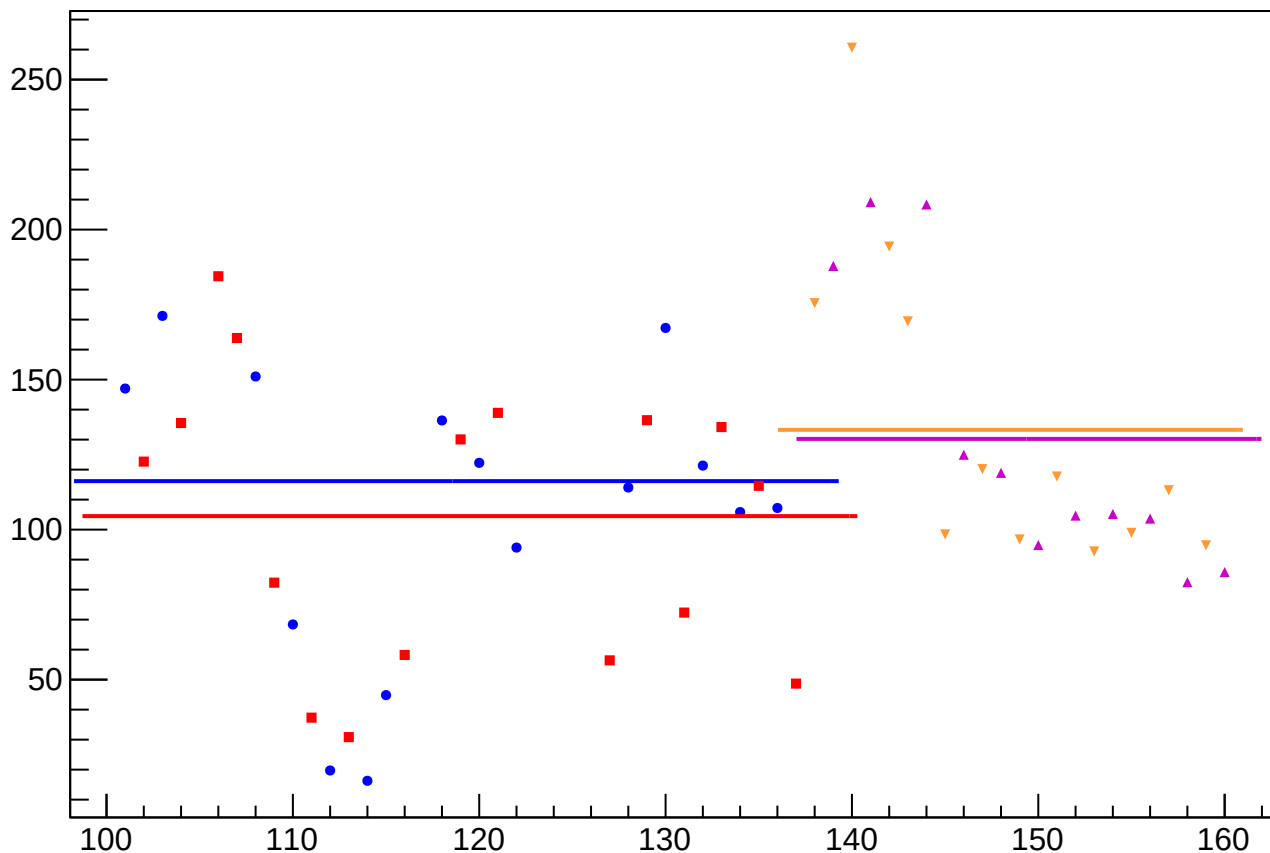
+ sign 1038.815+/-0.000  $\chi^2/\text{NDF}$ : 22186941302741

All: 995.711+/-0.000  $\chi^2/\text{NDF}$ : 46015505326

- sign 953.284+/-0.000  $\chi^2/\text{NDF}$ : 237708288217536



dit\_sam8\_coil4\_err\_mean vs Slug



Right In: 116.159+/-0.000  $\chi^2/\text{NDF}$ : 1198526427485199785396504127288115200.0/14

Left Out: 133.258+/-0.000  $\chi^2/\text{NDF}$ : 2355510699309539172490444744349974528.0/11

Right Out: 104.501+/-0.000  $\chi^2/\text{NDF}$ : 1285986383644058507445602420764180480.0/15

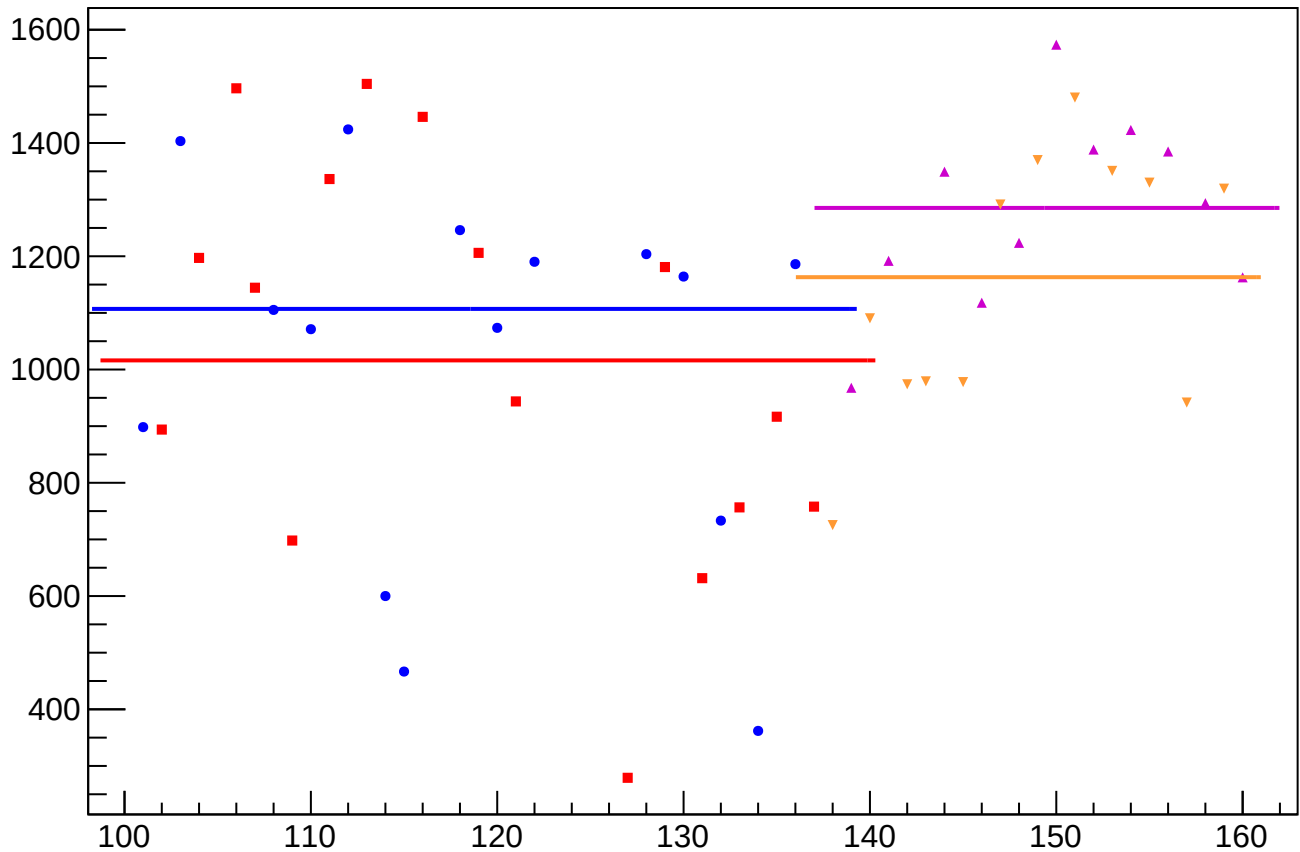
Left In: 130.237+/-0.000  $\chi^2/\text{NDF}$ : 1968814259217478663576054483231178752.0/10

+ sign 126.172+/-0.000  $\chi^2/\text{NDF}$ : 366514873637822

All: 122.783+/-0.000  $\chi^2/\text{NDF}$ : 721221097138

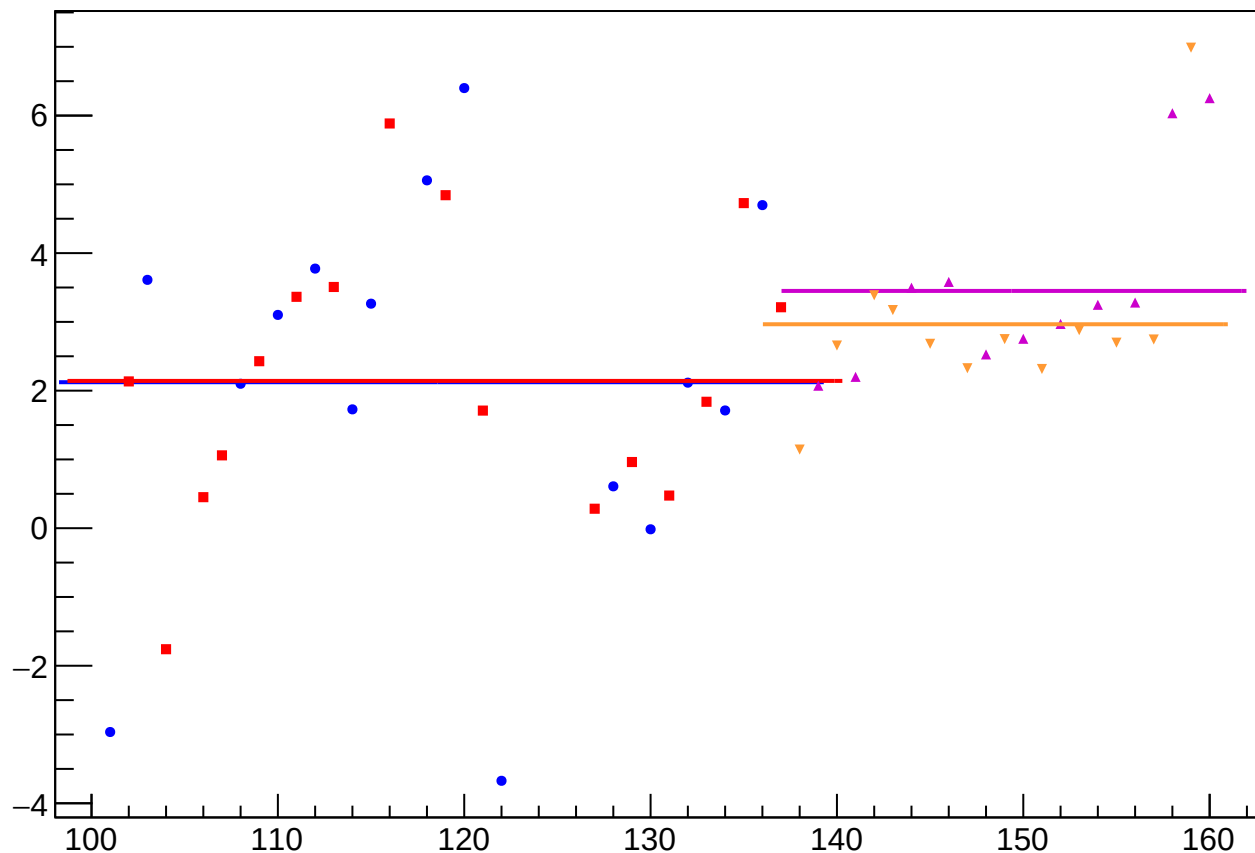
- sign 119.447+/-0.000  $\chi^2/\text{NDF}$ : 351137486927292

dit\_sam8\_coil4\_Ndata\_mean vs Slug



|                                 |                                                            |                             |                               |
|---------------------------------|------------------------------------------------------------|-----------------------------|-------------------------------|
| Right In: 1107.052 $\pm$ 0.000  | $\chi^2$ /NDF: 40633831787810179240542210398269472768.0/14 | + sign 1139.844 $\pm$ 0.000 | $\chi^2$ /NDF: 87570338044863 |
| Left Out: 1163.051 $\pm$ 0.000  | $\chi^2$ /NDF: 45744768397049445452124121981603807232.0/11 | All: 1156.292 $\pm$ 0.000   | $\chi^2$ /NDF: 21306550198    |
| Right Out: 1016.106 $\pm$ 0.000 | $\chi^2$ /NDF: 72567664333509192712184310037150171136.0/15 | - sign 1172.482 $\pm$ 0.000 | $\chi^2$ /NDF: 12465444911625 |
| Left In: 1285.364 $\pm$ 0.000   | $\chi^2$ /NDF: 24002572803732345959736048095514853376.0/10 |                             |                               |

dit\_4aX\_coil6\_mean vs Slug



Right In:  $2.123 \pm 0.000$

$\chi^2/\text{NDF}$ : 5263705922821075971022013849403392.0/14

Left Out:  $2.966 \pm 0.000$

$\chi^2/\text{NDF}$ : 1657147599544170270871306245242880.0/11

Right Out:  $2.142 \pm 0.000$

$\chi^2/\text{NDF}$ : 2472949940993672466161692257026048.0/15

Left In:  $3.450 \pm 0.000$

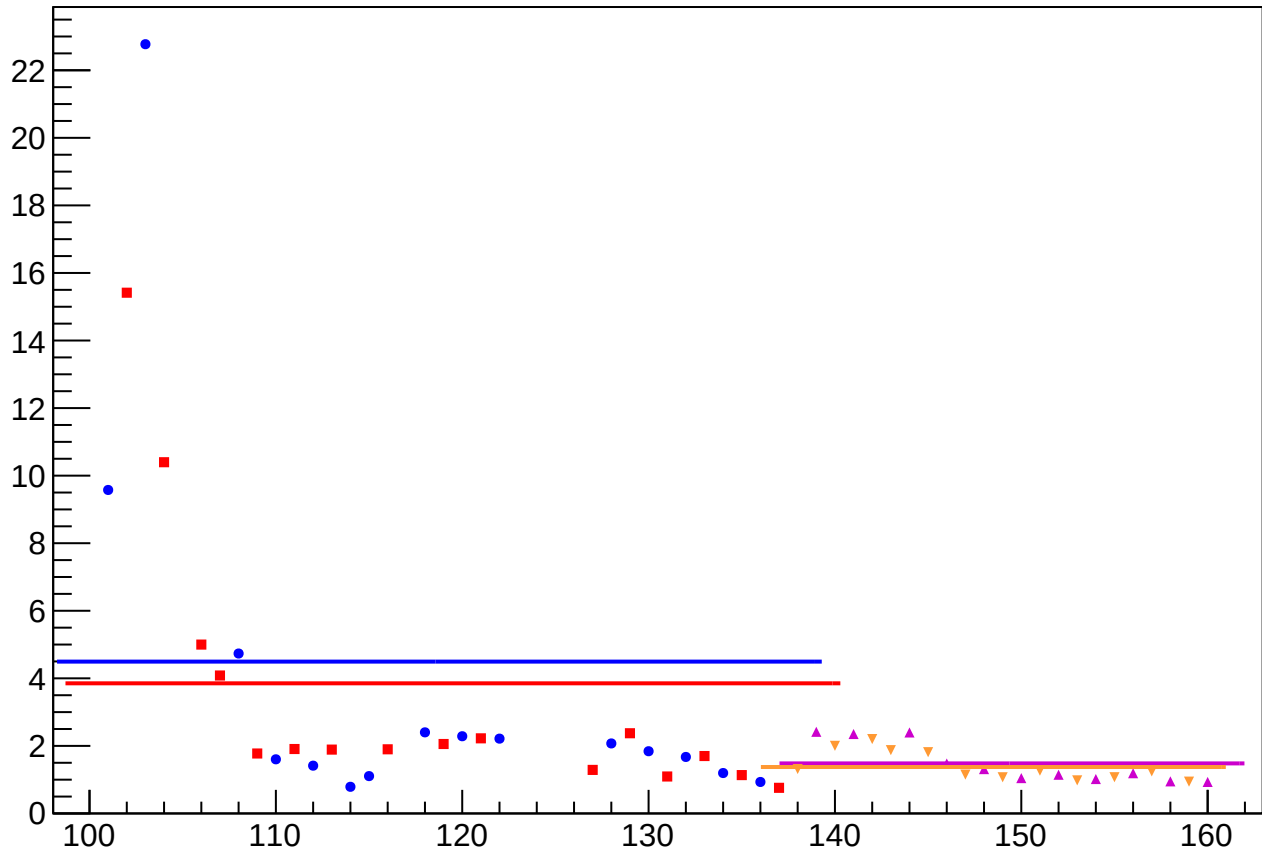
$\chi^2/\text{NDF}$ : 1551935058842125730993767819771904.0/10

+ sign  $2.616 \pm 0.000$   $\chi^2/\text{NDF}$ : 71907889220170807

All:  $2.760 \pm 0.000$   $\chi^2/\text{NDF}$ : 11943217420921

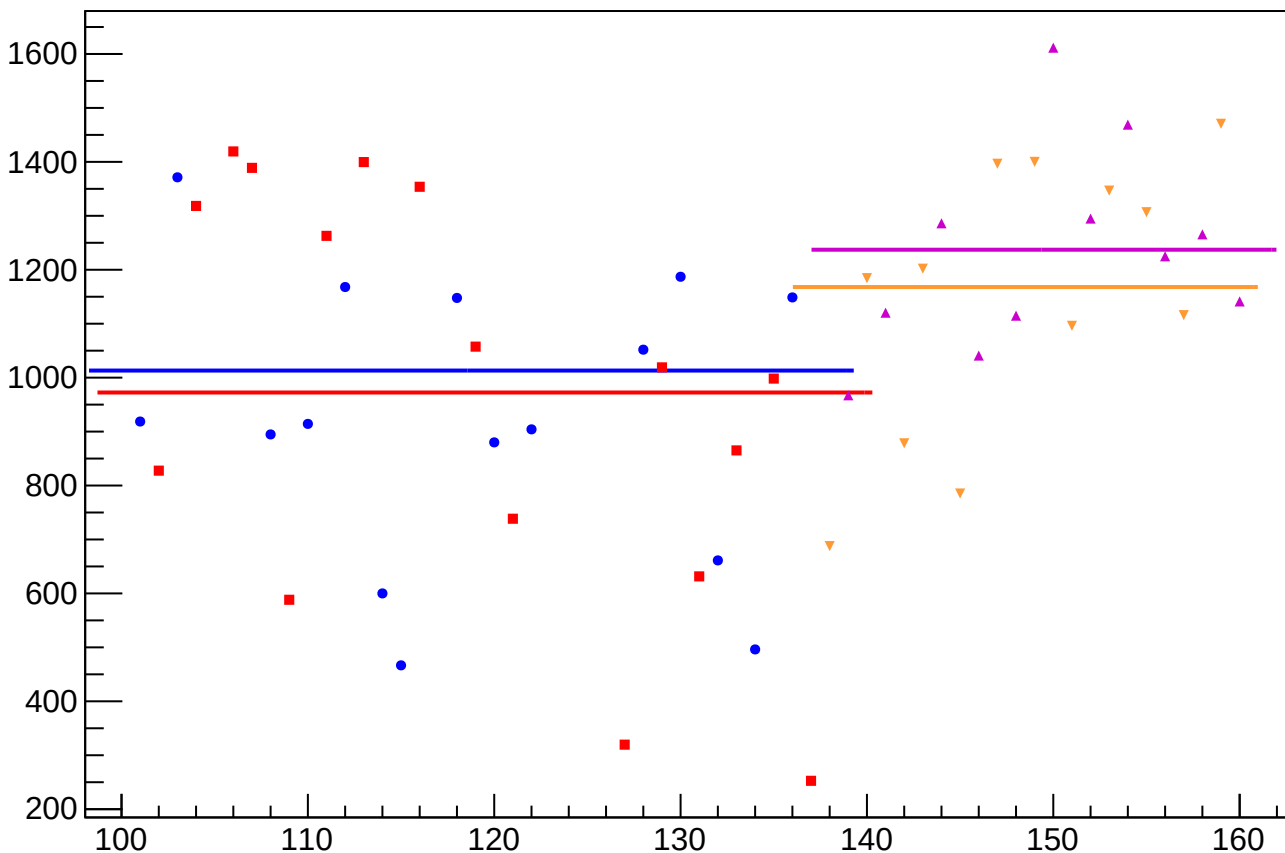
- sign  $2.902 \pm 0.000$   $\chi^2/\text{NDF}$ : 46881653143346508

dit\_4aX\_coil6\_err\_mean vs Slug



|                          |                                                                |
|--------------------------|----------------------------------------------------------------|
| Right In: 4.495+/-0.000  | $\chi^2/\text{NDF}$ : 25270242219816061532329198634401792.0/14 |
| Left Out: 1.375+/-0.000  | $\chi^2/\text{NDF}$ : 145824137057123098329032148647936.0/11   |
| Right Out: 3.852+/-0.000 | $\chi^2/\text{NDF}$ : 12314971476556806550518847638601728.0/15 |
| Left In: 1.482+/-0.000   | $\chi^2/\text{NDF}$ : 310337710475779495774509405831168.0/10   |
| + sign 2.668+/-0.000     | $\chi^2/\text{NDF}$ : 29116582581776454                        |
| All: 2.571+/-0.000       | $\chi^2/\text{NDF}$ : 43948176556660                           |
| - sign 2.476+/-0.000     | $\chi^2/\text{NDF}$ : 14802405912641910                        |

dit\_4aX\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

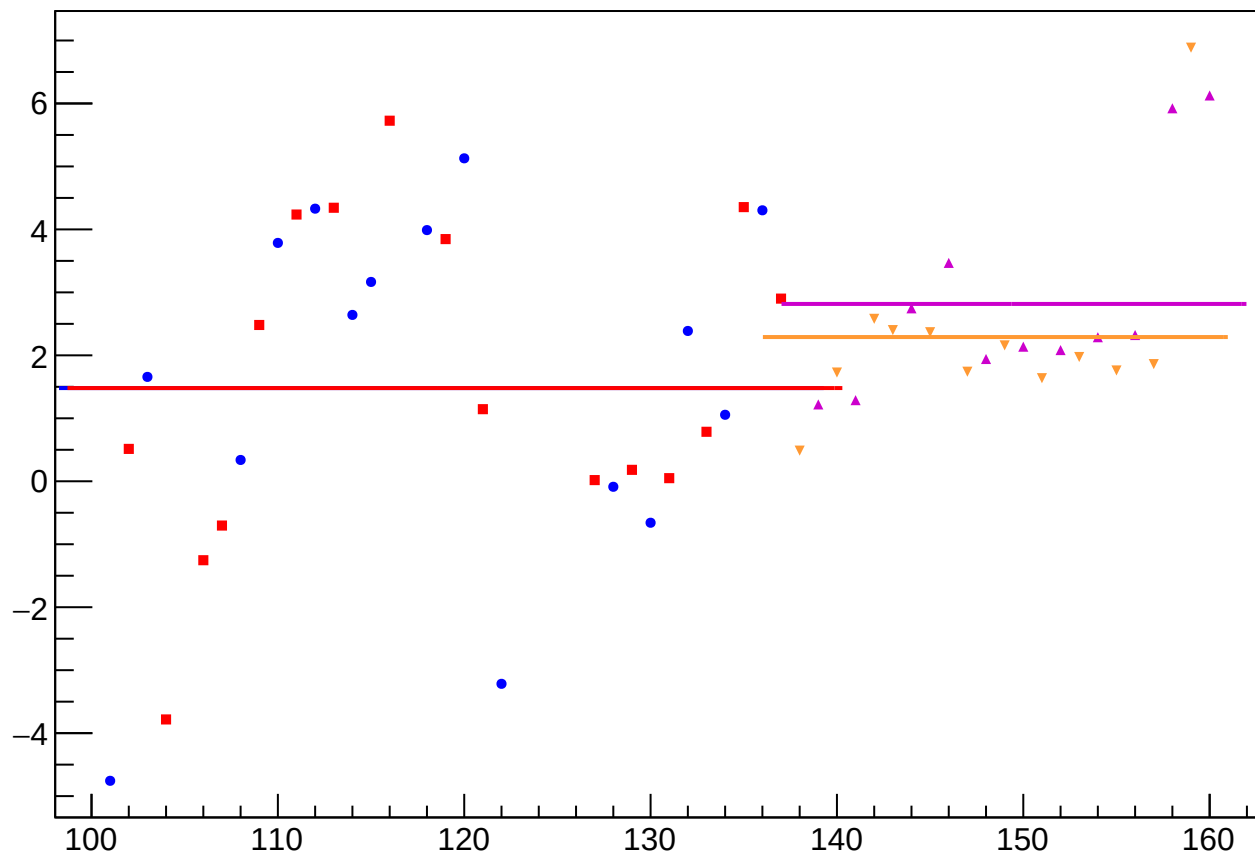
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_4eX\_coil6\_mean vs Slug



Right In: 1.480+/-0.000

$\chi^2/\text{NDF}$ : 5799670695902784459055767987683328.0/14

Left Out: 2.290+/-0.000

$\chi^2/\text{NDF}$ : 2078203934623339407466741505196032.0/11

Right Out: 1.480+/-0.000

$\chi^2/\text{NDF}$ : 4092645800613765572662987820367872.0/15

Left In: 2.816+/-0.000

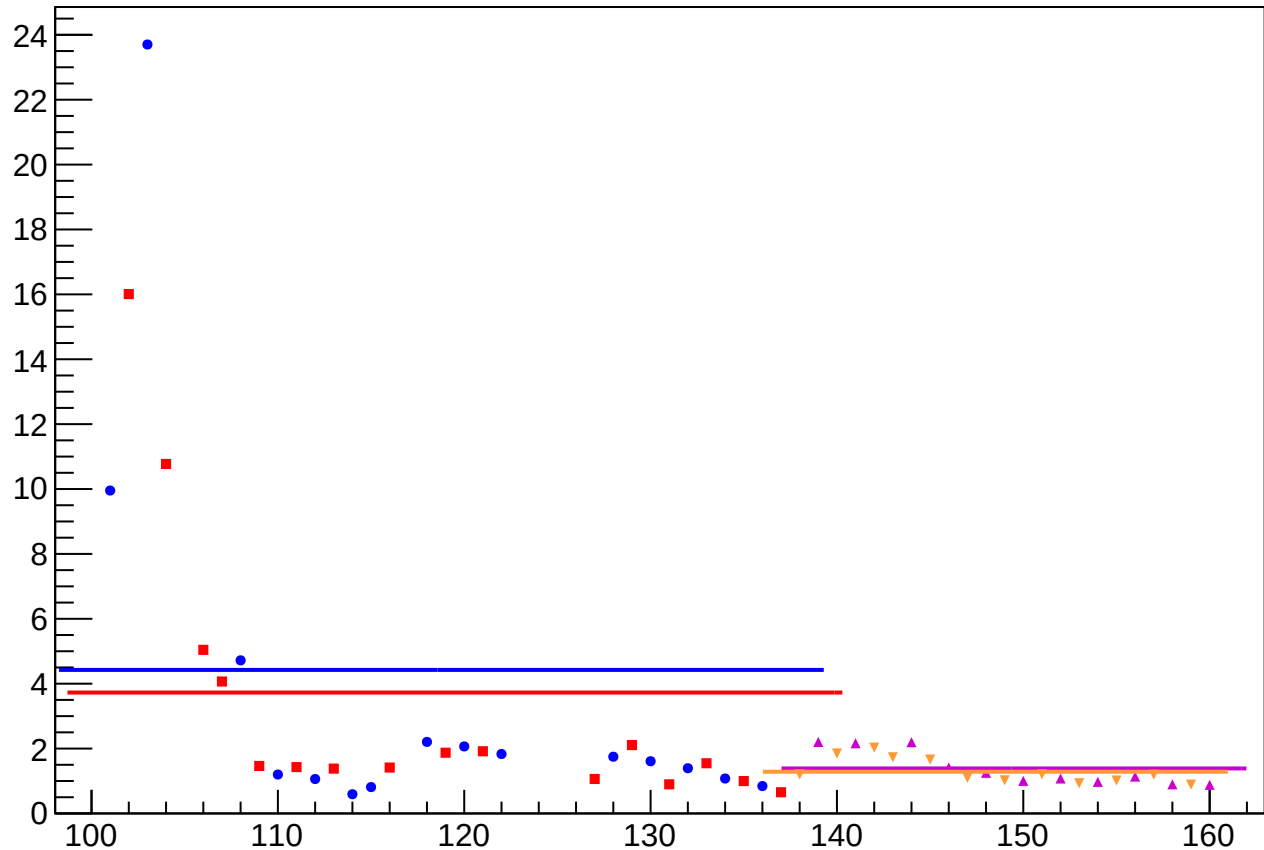
$\chi^2/\text{NDF}$ : 2230790234579581781884760219451392.0/10

+ sign 1.955+/-0.000  $\chi^2/\text{NDF}$ : 81275031284307058

All: 2.107+/-0.000  $\chi^2/\text{NDF}$ : 15214247821450

- sign 2.256+/-0.000  $\chi^2/\text{NDF}$ : 70149440633078184

dit\_4eX\_coil6\_err\_mean vs Slug



Right In: 4.424+/-0.000  $\chi^2/\text{NDF}$ : 28257459272876210608839830473277440.0/14

Left Out: 1.287+/-0.000  $\chi^2/\text{NDF}$ : 115572710425974542014826355359744.0/11

Right Out: 3.727+/-0.000  $\chi^2/\text{NDF}$ : 13991816814749842519794284853460992.0/15

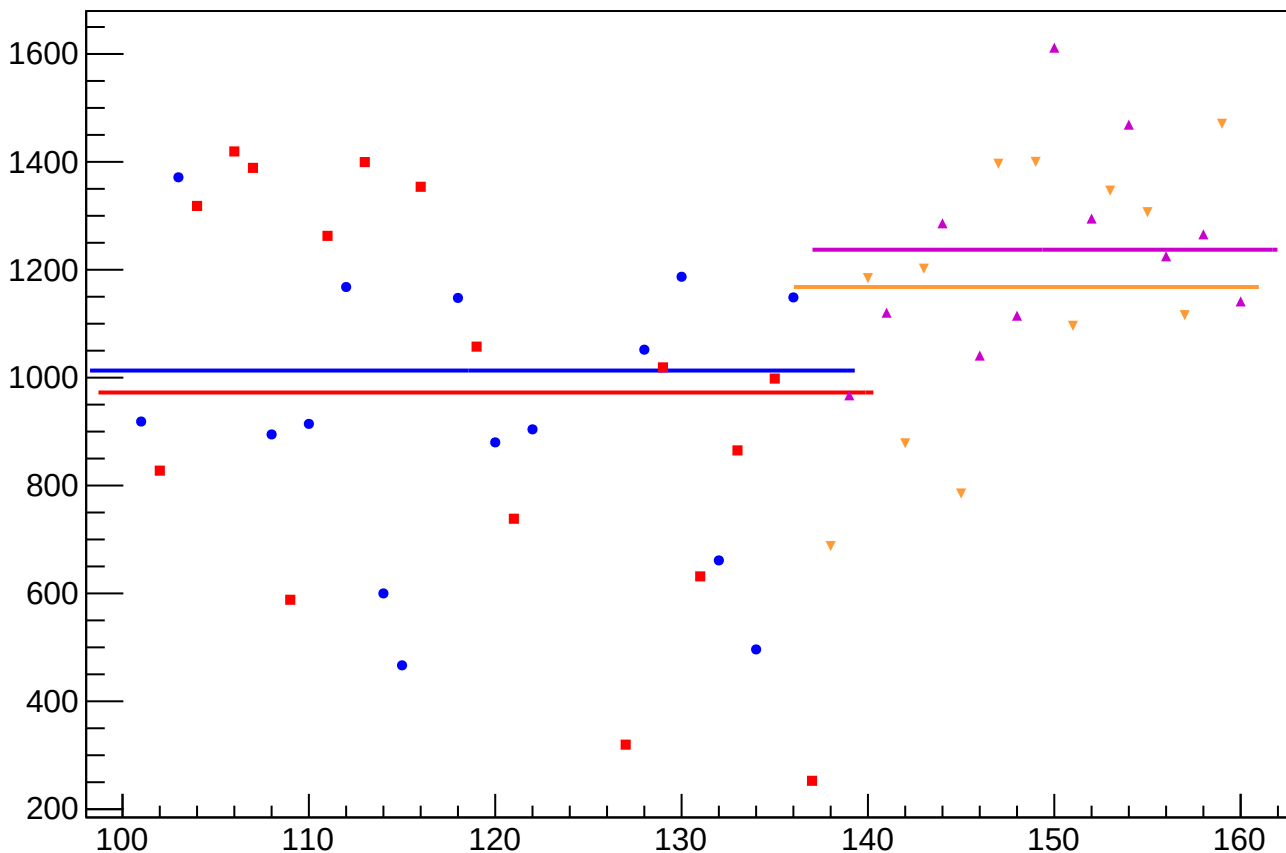
Left In: 1.387+/-0.000  $\chi^2/\text{NDF}$ : 245381205913734368947829561360384.0/10

+ sign 2.587+/-0.000  $\chi^2/\text{NDF}$ : 321150215015111057

All: 2.477+/-0.000  $\chi^2/\text{NDF}$ : 48510826313860

- sign 2.368+/-0.000  $\chi^2/\text{NDF}$ : 16358007863357496

dit\_4eX\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

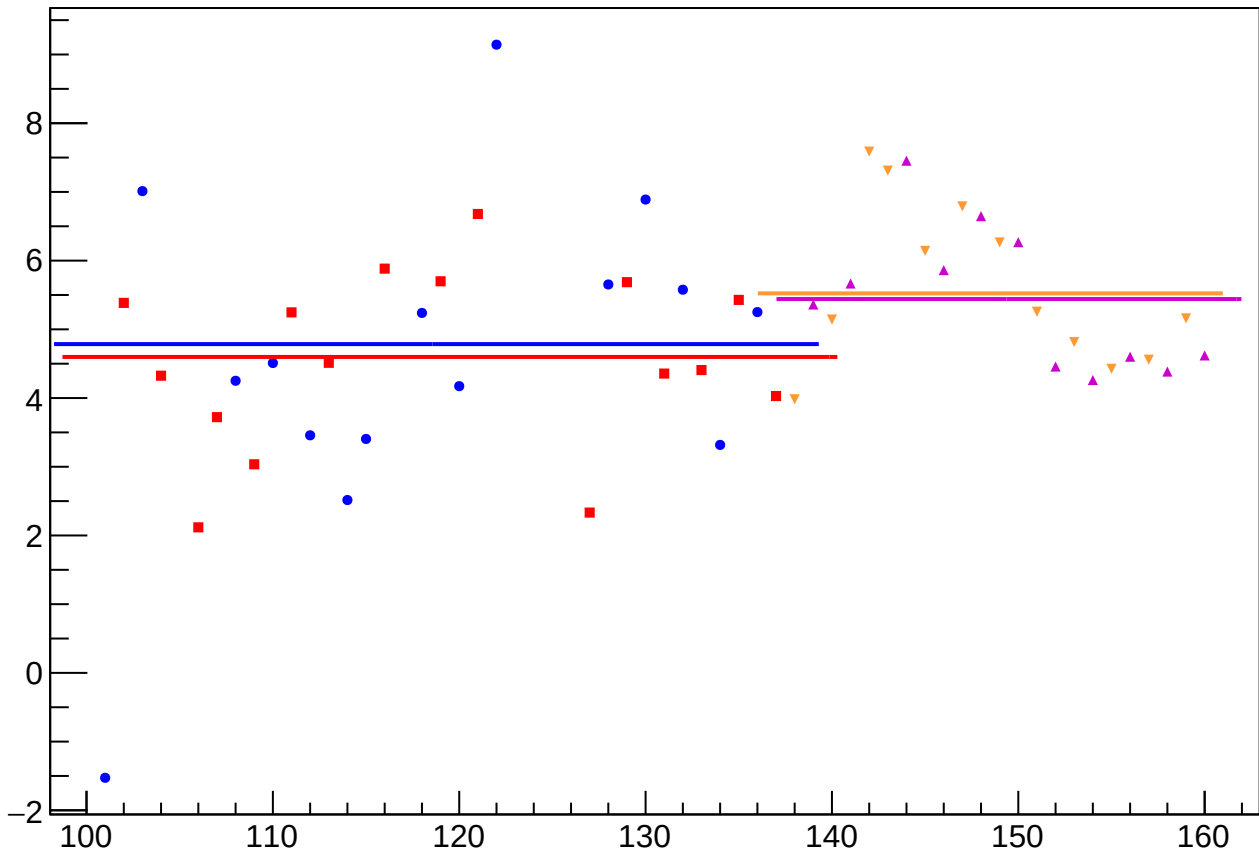
+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460



dit\_11X12X\_coil6\_mean vs Slug



Right In: 4.785+/-0.000  $\chi^2/\text{NDF}$ : 3996556073154779711808159470321664.0/14

Left Out: 5.524+/-0.000  $\chi^2/\text{NDF}$ : 1037921325796141419900309275148288.0/11

Right Out: 4.598+/-0.000  $\chi^2/\text{NDF}$ : 989607156792948633247632779640832.0/15

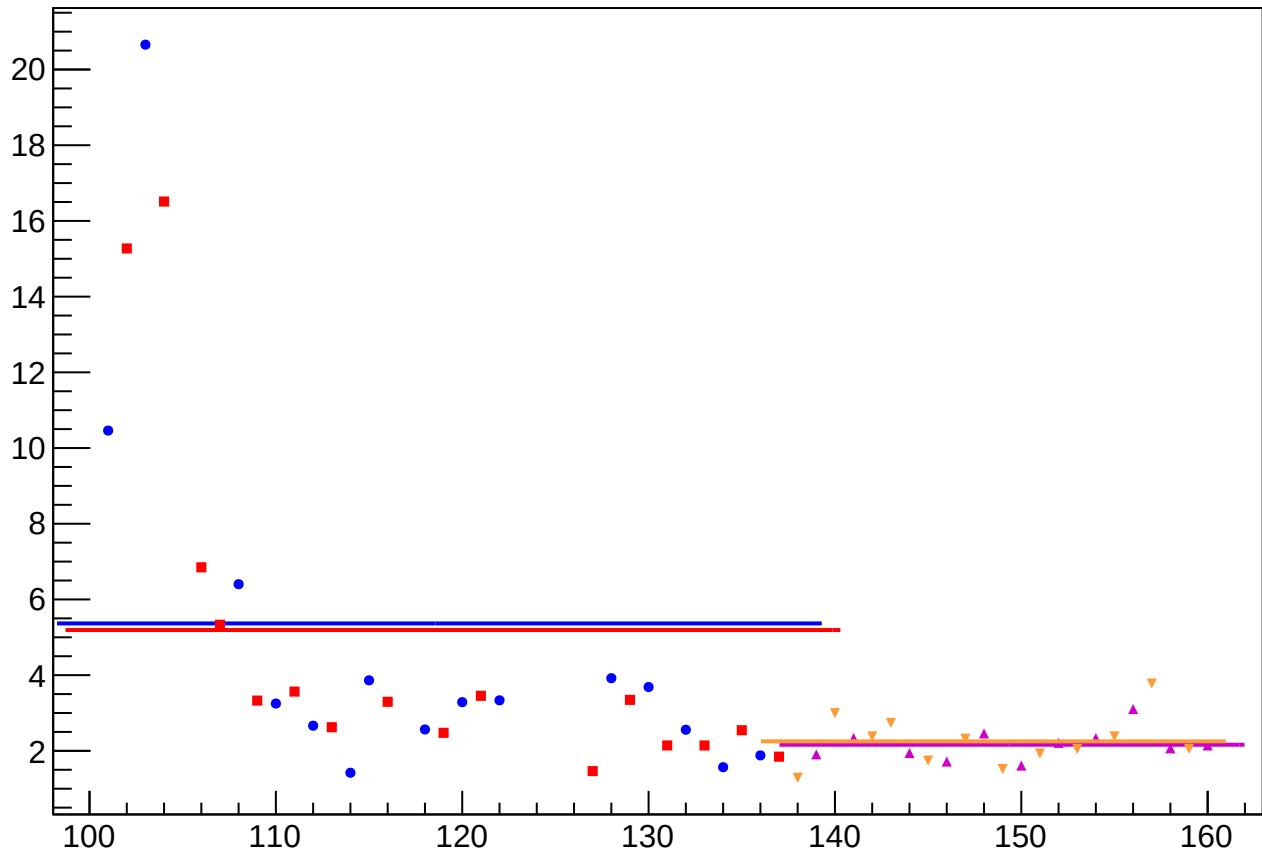
Left In: 5.441+/-0.000  $\chi^2/\text{NDF}$ : 969147874620390855399339032838144.0/10

+ sign 5.218+/-0.000  $\chi^2/\text{NDF}$ : 52418508017321486

All: 5.152+/-0.000  $\chi^2/\text{NDF}$ : 74889564459547

- sign 5.088+/-0.000  $\chi^2/\text{NDF}$ : 22337713953374815

# dit\_11X12X\_coil6\_err\_mean vs Slug



Right In: 5.366 $\pm$ 0.000  $\chi^2$ /NDF: 18780724722063497096153009301225472.0/14

Left Out: 2.251 $\pm$ 0.000  $\chi^2$ /NDF: 401214907261745165005566645370880.0/11

Right Out: 5.192 $\pm$ 0.000  $\chi^2$ /NDF: 15749573754945345754432436952891392.0/15

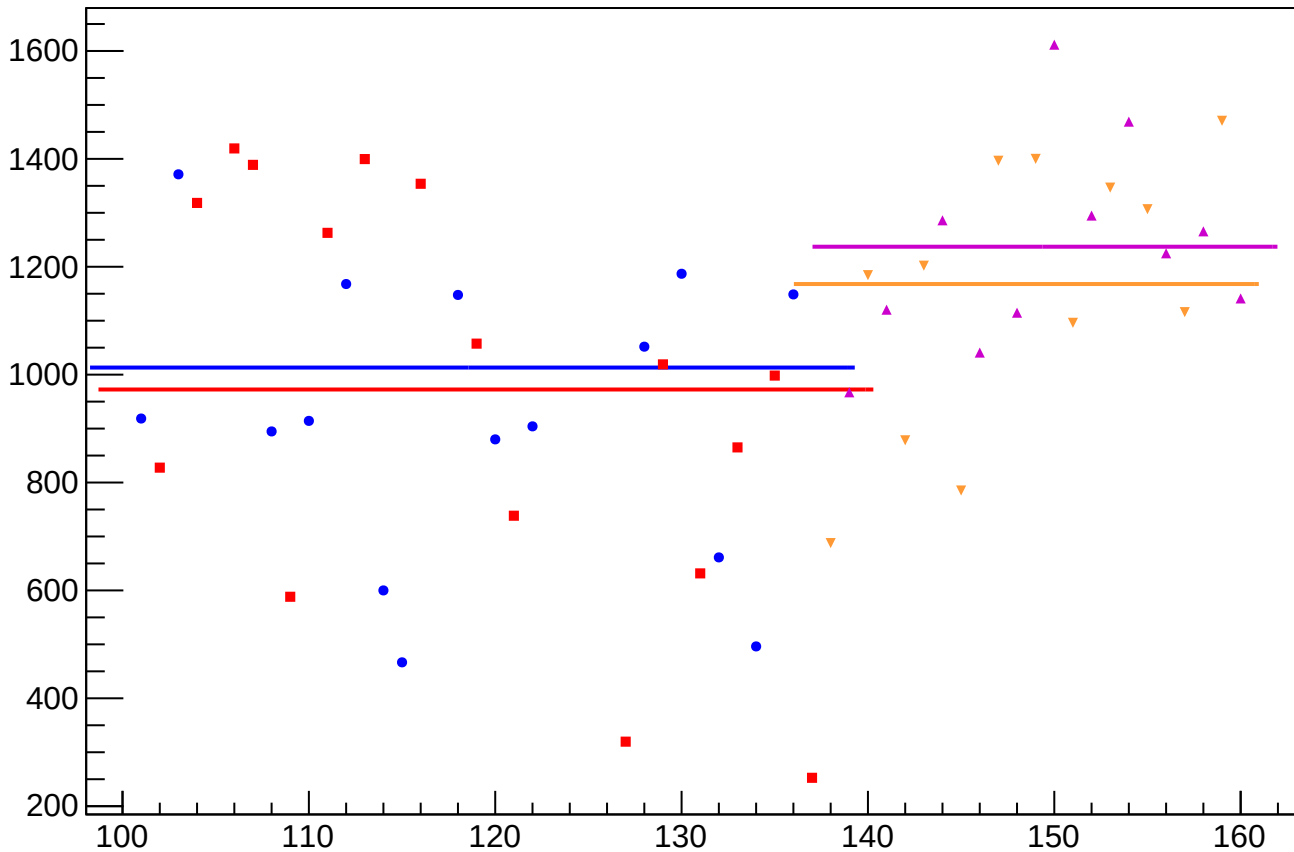
Left In: 2.162 $\pm$ 0.000  $\chi^2$ /NDF: 138367938839103248546751049629696.0/10

+ sign 3.542 $\pm$ 0.000  $\chi^2$ /NDF: 22868598019843594

All: 3.487 $\pm$ 0.000  $\chi^2$ /NDF: 42324004096810

- sign 3.432 $\pm$ 0.000  $\chi^2$ /NDF: 19445829920618957

dit\_11X12X\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

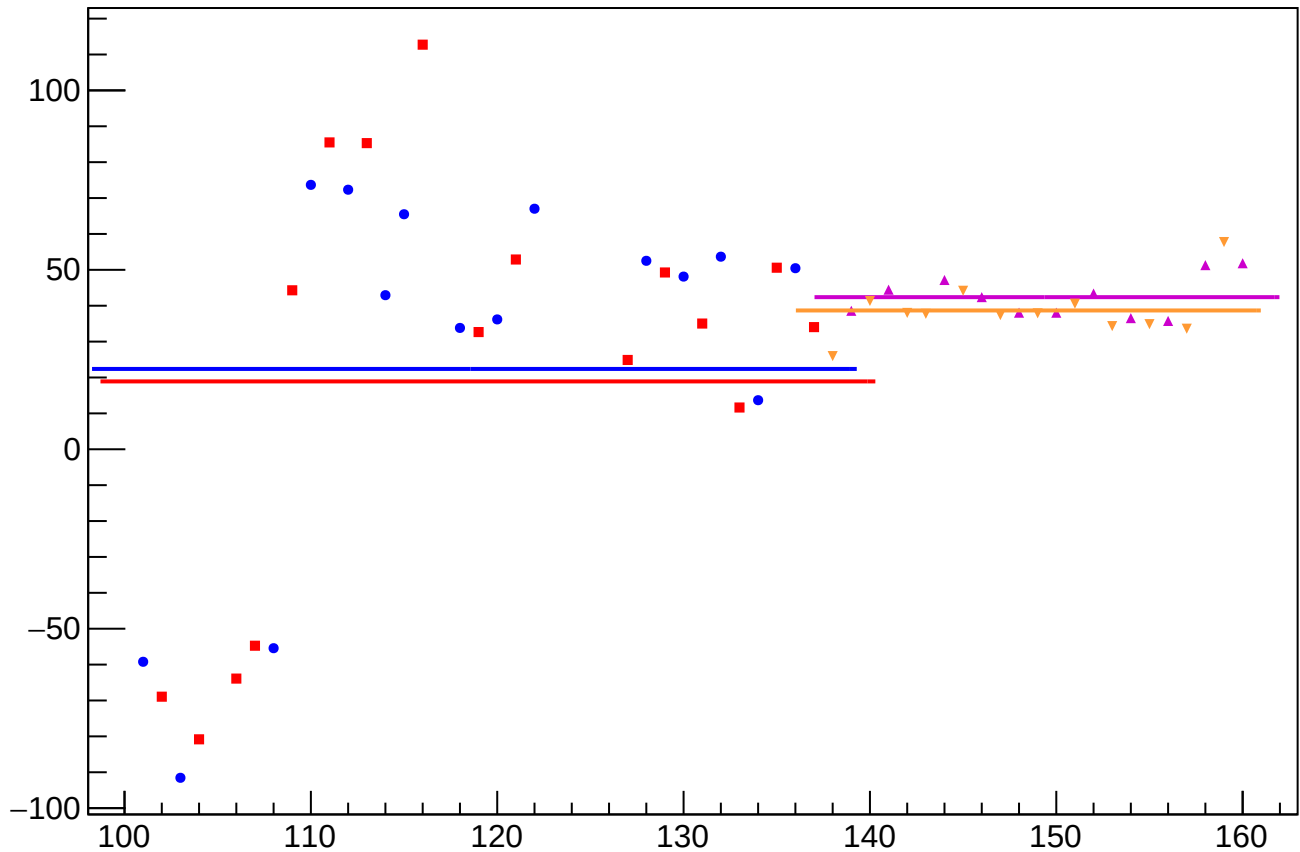
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

dit\_4aY\_coil6\_mean vs Slug



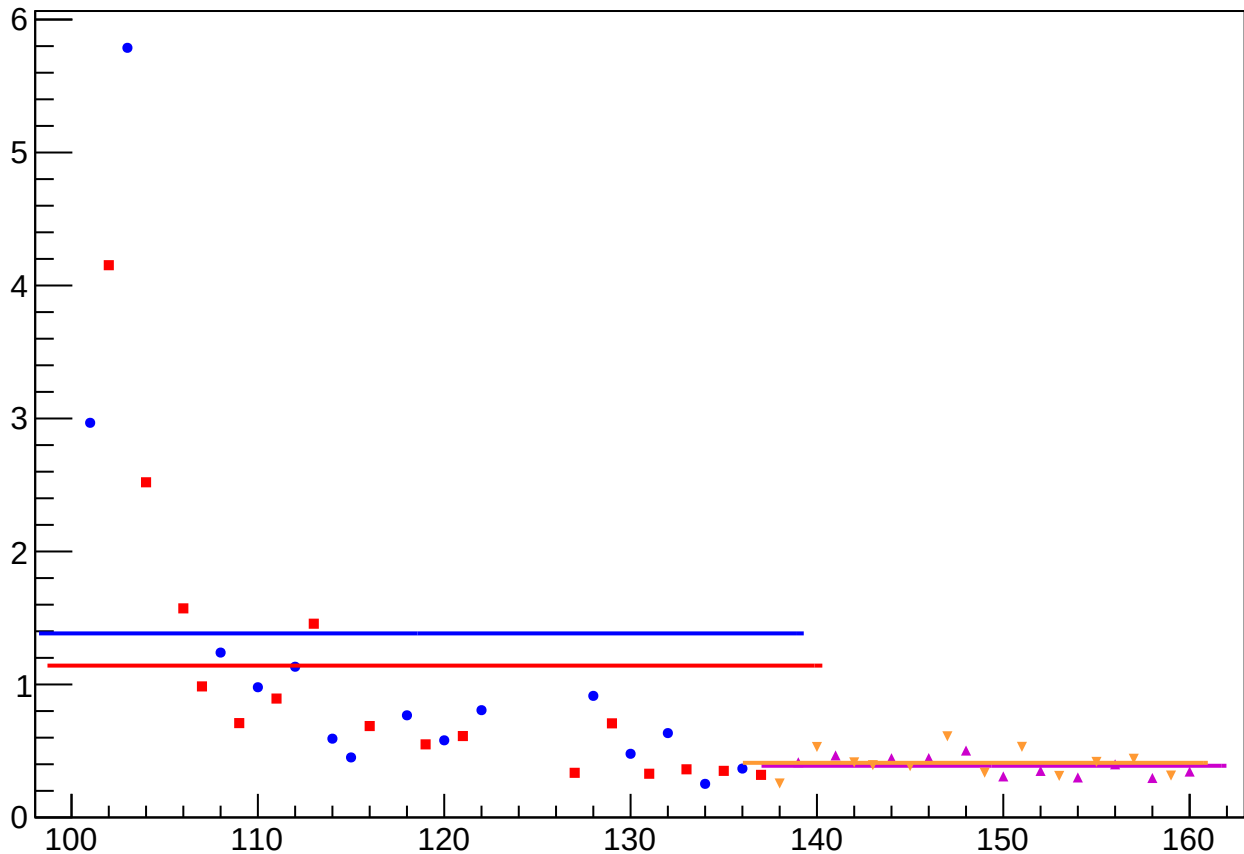
Right In:  $22.385 \pm 0.000$   $\chi^2/\text{NDF}$ : 1922260860023592637794094183323009024.0/14

Left Out:  $38.679 \pm 0.000$   $\chi^2/\text{NDF}$ : 50075878897811273484787289537118208.0/11

Right Out:  $18.907 \pm 0.000$   $\chi^2/\text{NDF}$ : 2182221808408156293593993992757837824.0/15

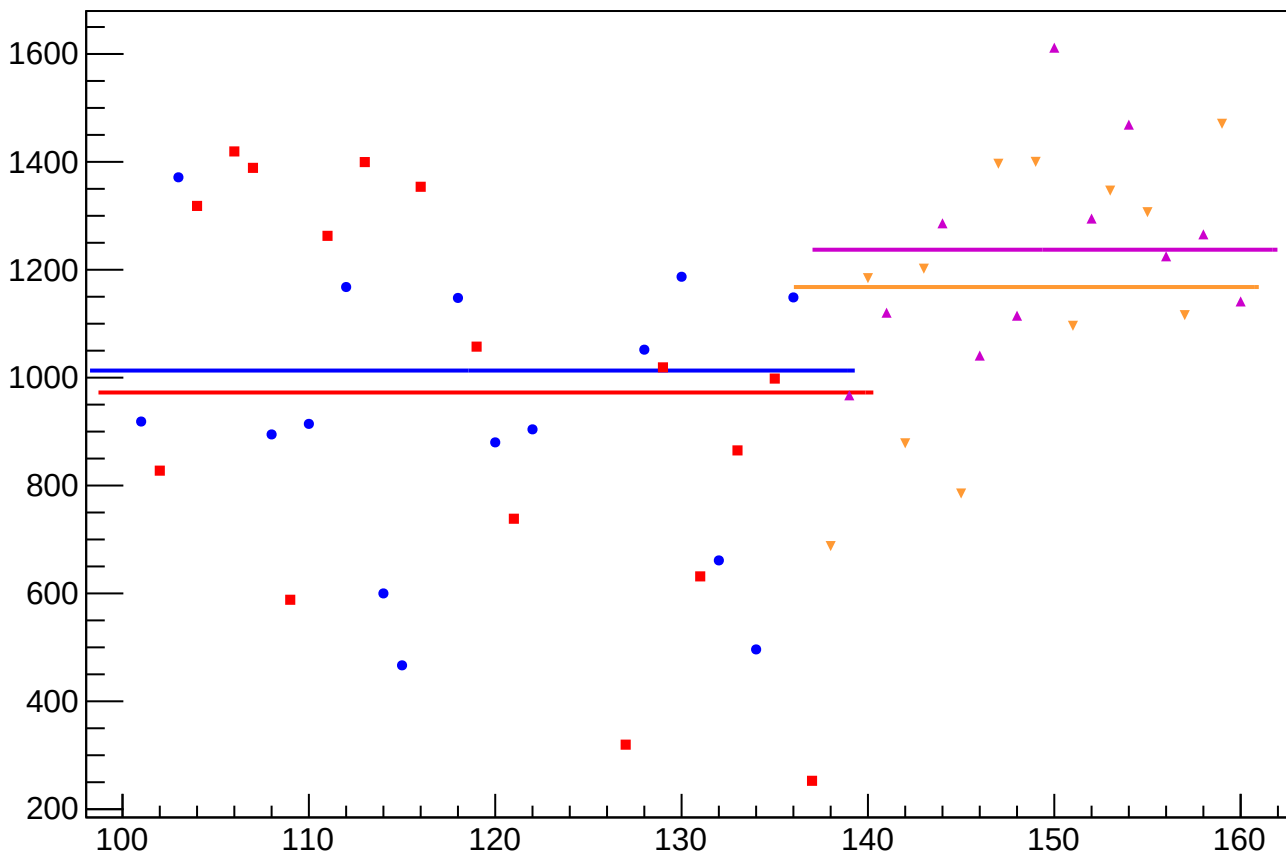
Left In:  $42.386 \pm 0.000$   $\chi^2/\text{NDF}$ : 26555660128562986553016927486214144.0/10

dit\_4aY\_coil6\_err\_mean vs Slug



Right In:  $1.384 \pm 0.000$   $\chi^2/\text{NDF}$ : 1571159324102064120487940936695808.0/14  
 Left Out:  $0.411 \pm 0.000$   $\chi^2/\text{NDF}$ : 9428610492078012186649224544256.0/11  
 Right Out:  $1.142 \pm 0.000$   $\chi^2/\text{NDF}$ : 810680738285448955223066212827136.0/15  
 Left In:  $0.389 \pm 0.000$   $\chi^2/\text{NDF}$ : 4468112130112640641394154668032.0/10  
 All:  $0.759 \pm 0.000$   $\chi^2/\text{NDF}$ : 29848868867136.0/15  
 + sign  $0.814 \pm 0.000$   $\chi^2/\text{NDF}$ : 19405199182887263.0/11  
 - sign  $0.704 \pm 0.000$   $\chi^2/\text{NDF}$ : 10348725978885865.0/11

dit\_4aY\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

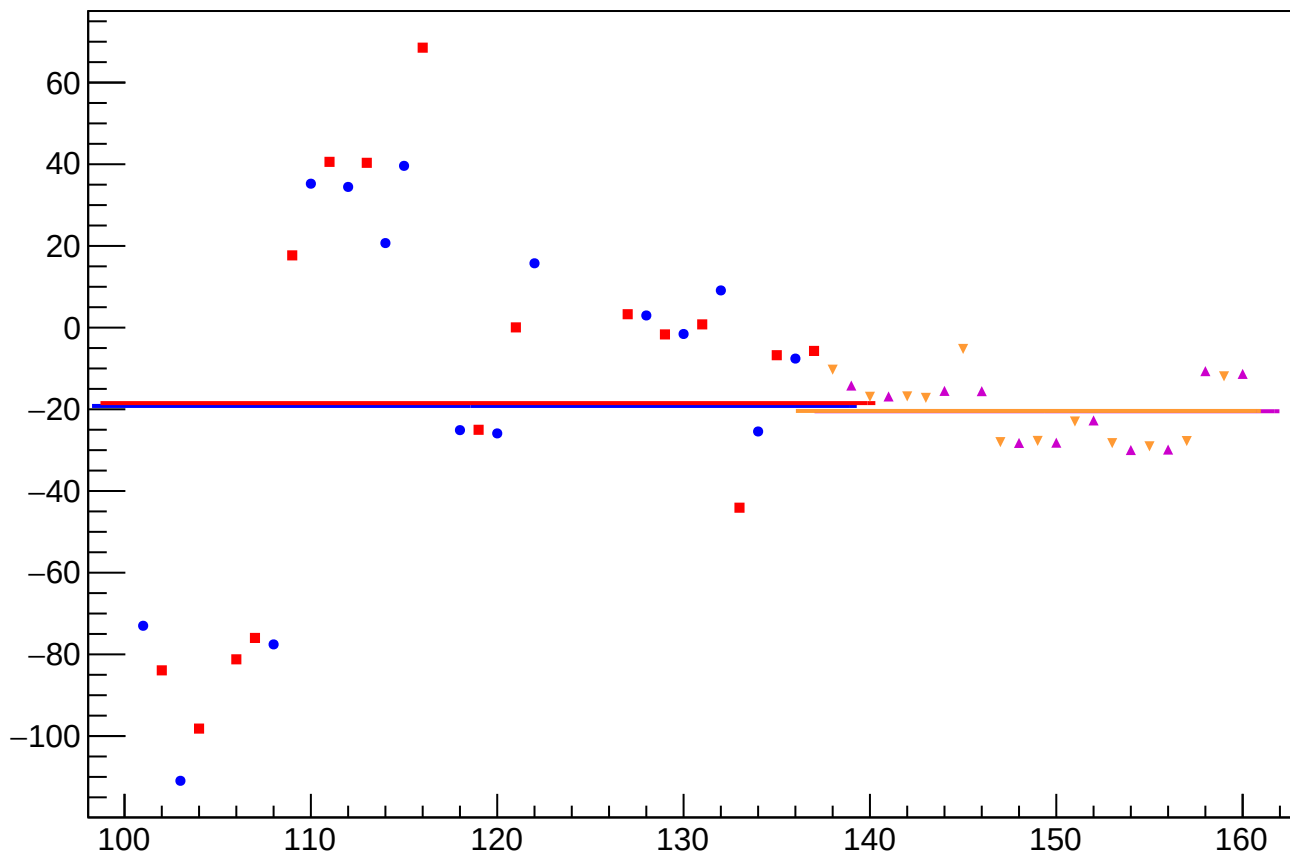
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_4eY\_coil6\_mean vs Slug



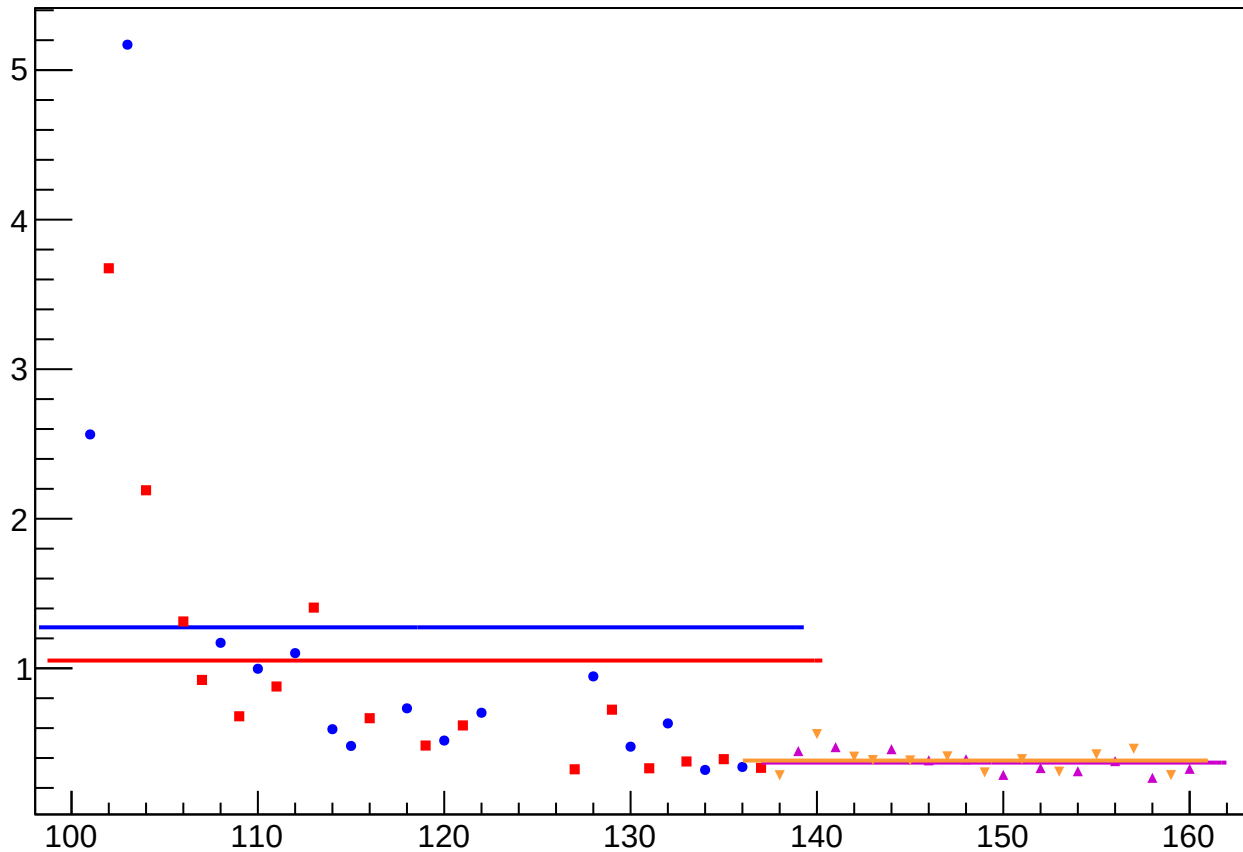
Right In:  $-19.175 \pm 0.000$   $\chi^2/\text{NDF}$ : 1246364705689764961102868160463241216.0/14

Left Out:  $-20.399 \pm 0.000$   $\chi^2/\text{NDF}$ : 59795874846132016074625786396540928.0/11

Right Out:  $-18.479 \pm 0.000$   $\chi^2/\text{NDF}$ : 1489398115046175180640331393369374720.0/15

Left In:  $-20.473 \pm 0.000$   $\chi^2/\text{NDF}$ : 48484953363349820110348478937300992.0/10

dit\_4eY\_coil6\_err\_mean vs Slug



Right In: 1.274 $\pm$ 0.000  $\chi^2$ /NDF: 1212041476631073599154045304438784.0/14

Left Out: 0.383 $\pm$ 0.000  $\chi^2$ /NDF: 5804905550420528910426527760384.0/11

Right Out: 1.052 $\pm$ 0.000  $\chi^2$ /NDF: 607316121057753919194559126962176.0/15

Left In: 0.369 $\pm$ 0.000  $\chi^2$ /NDF: 4166350638848138676707816112128.0/10

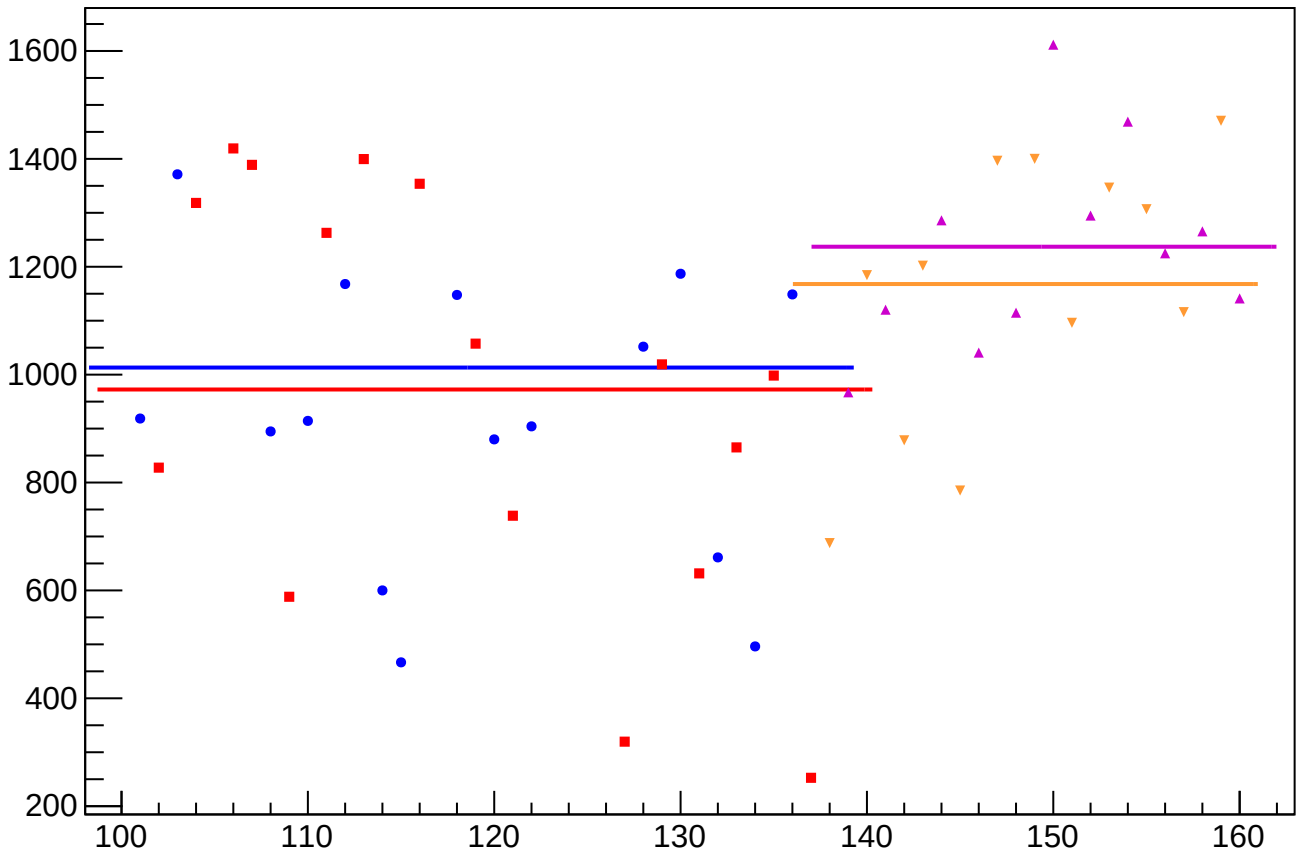
+ sign 0.752 $\pm$ 0.000  $\chi^2$ /NDF: 15194700956779479

All: 0.703 $\pm$ 0.000  $\chi^2$ /NDF: 2318813336124

- sign 0.655 $\pm$ 0.000  $\chi^2$ /NDF: 79193916268828881



dit\_4eY\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

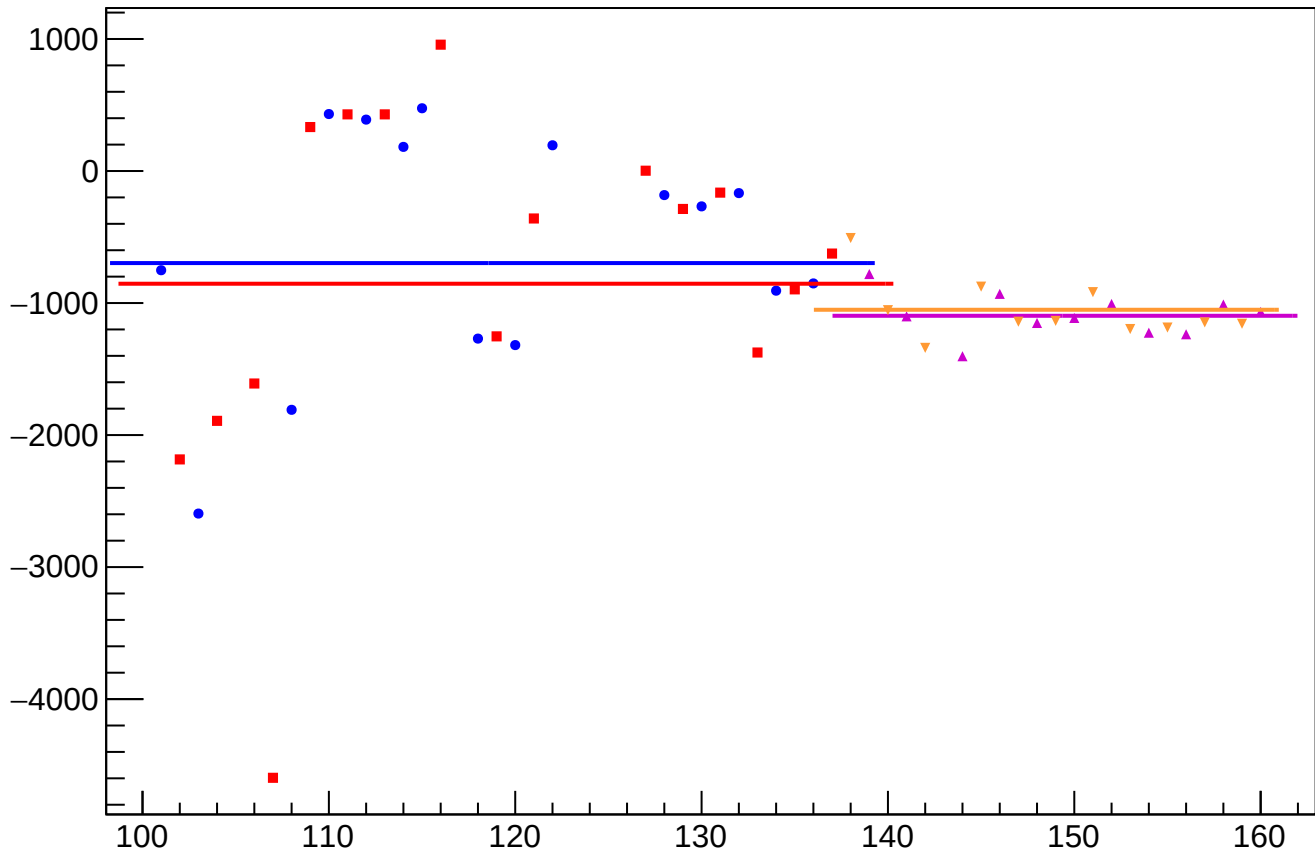
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

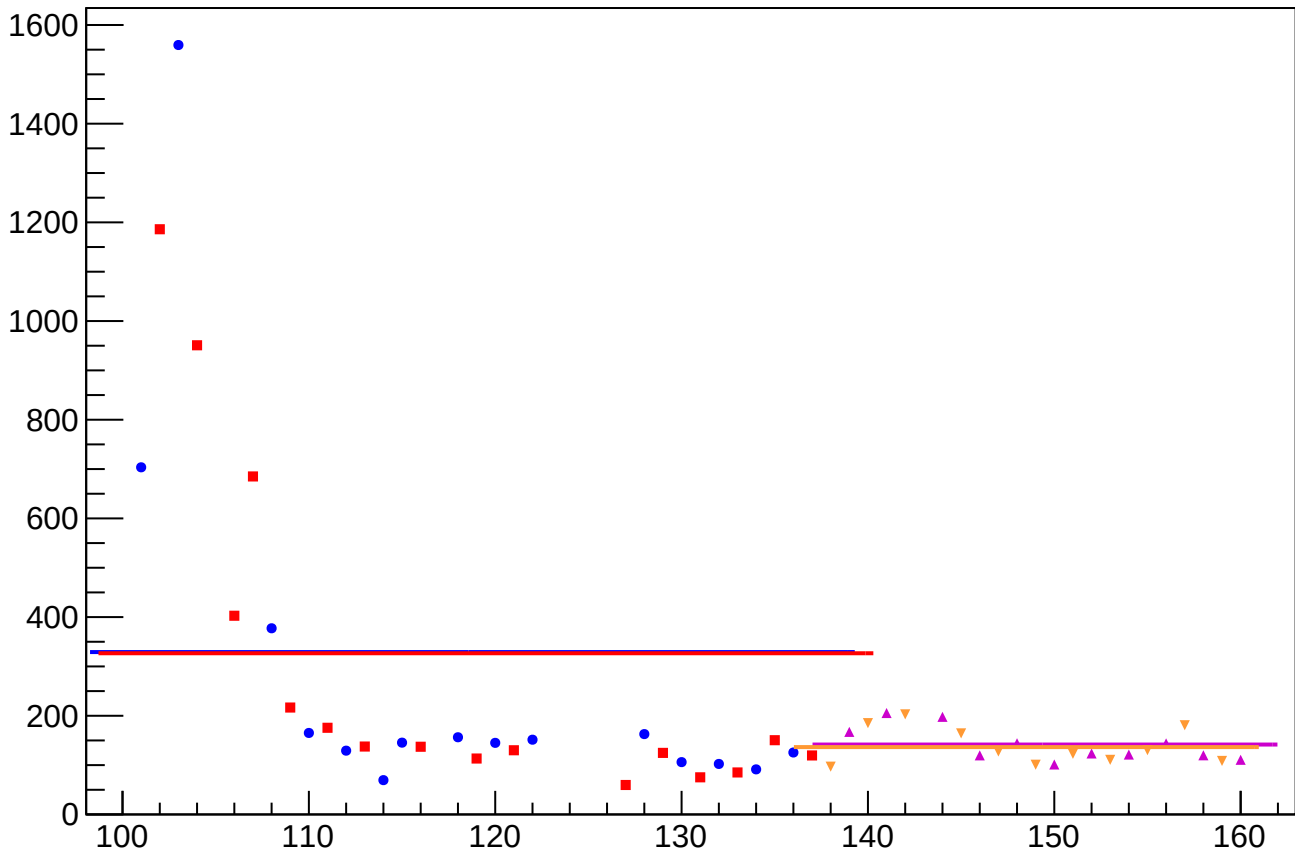
- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_usl\_coil6\_mean vs Slug



|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Right In: -697.283+/-0.000  | $\chi^2/\text{NDF}$ : 490435790698133828475769692944364208128.0/14 |
| Left Out: -1050.953+/-0.000 | + sign -897.829+/-0.000 $\chi^2/\text{NDF}$ : 57329674650375       |
| Right Out: -853.734+/-0.000 | $\chi^2/\text{NDF}$ : 36829070766461393403765229942747430912.0/10  |
| Left In: -1096.508+/-0.000  | All: -947.722+/-0.000 $\chi^2/\text{NDF}$ : 17051514105            |
|                             | - sign -994.729+/-0.000 $\chi^2/\text{NDF}$ : 11246076469589       |
|                             | $\chi^2/\text{NDF}$ : 23397092464085092375008014674557927424.0/10  |

dit\_usl\_coil6\_err\_mean vs Slug



Right In: 329.108 $\pm$ 0.000  $\chi^2$ /NDF: 116863820700538623524207945698672377856.0/14

Left Out: 136.529 $\pm$ 0.000  $\chi^2$ /NDF: 986372818283314141100082094359445504.0/10

Right Out: 326.695 $\pm$ 0.000  $\chi^2$ /NDF: 87569123354318020688611028415151079424.0/15

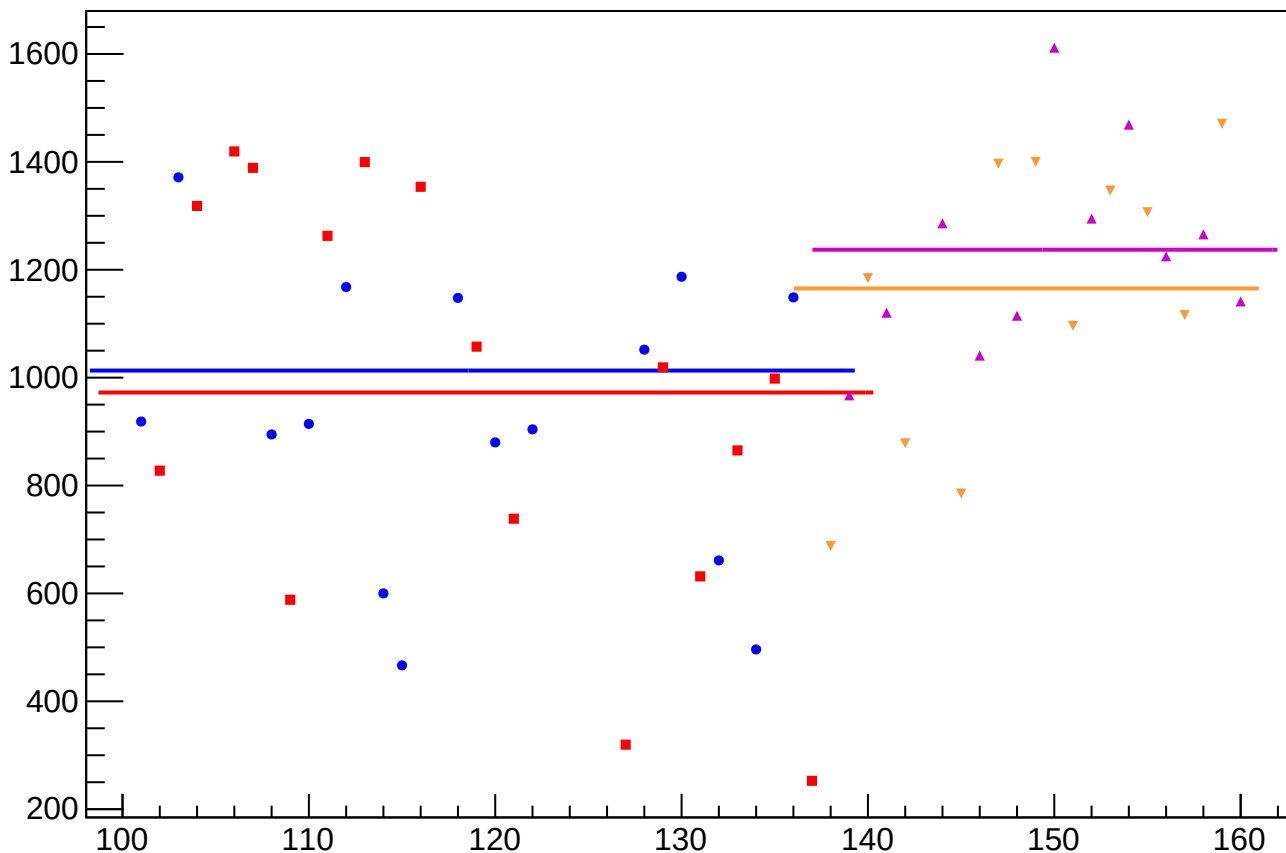
Left In: 141.688 $\pm$ 0.000  $\chi^2$ /NDF: 1044882408057849194081424130600599552.0/10

+ sign 219.907 $\pm$ 0.000  $\chi^2$ /NDF: 131498546737370

All: 219.568 $\pm$ 0.000  $\chi^2$ /NDF: 23337163505

- sign 219.249 $\pm$ 0.000  $\chi^2$ /NDF: 101872754009430

dit\_usl\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1165.293+/-0.000  $\chi^2/\text{NDF}$ : 54526526454727326957619493827495591936.0/10

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

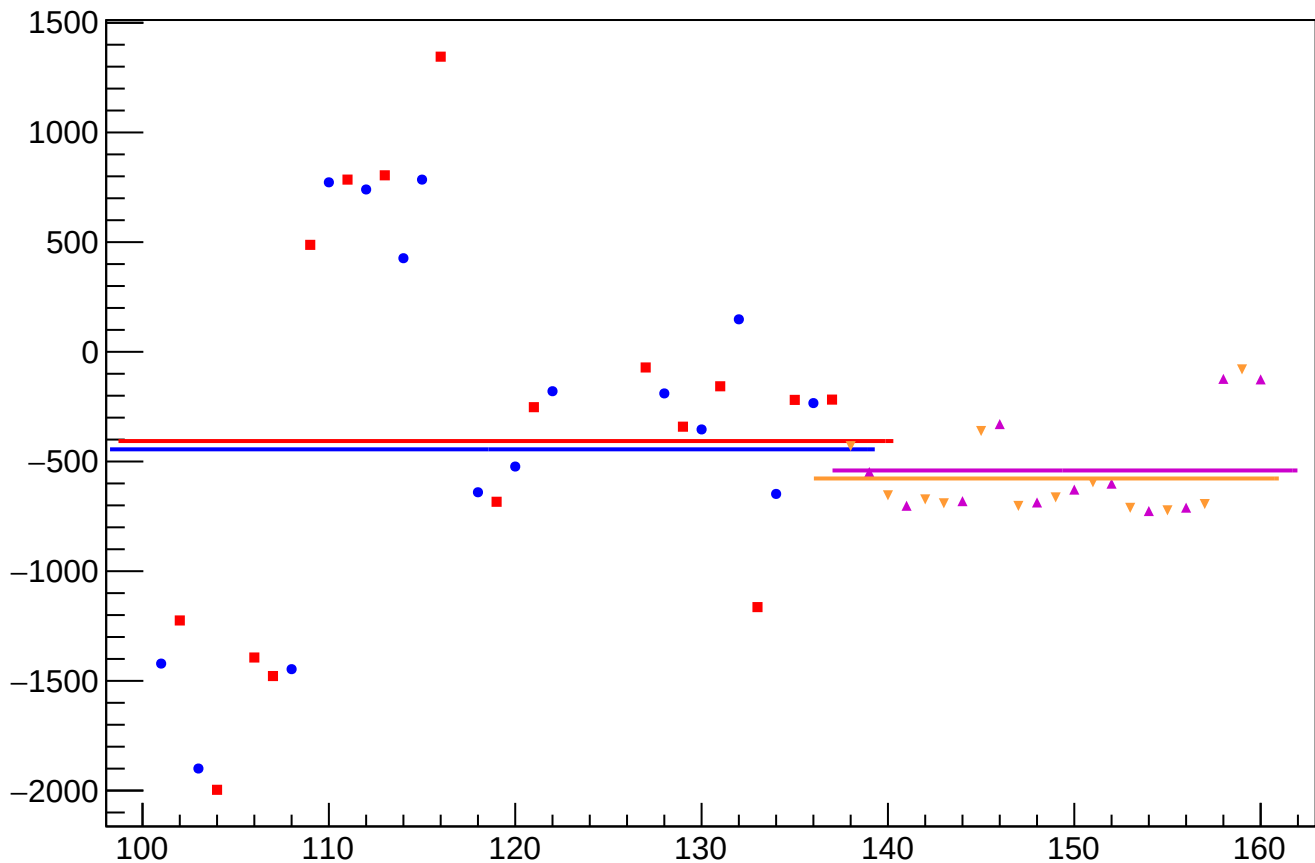
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1099.420+/-0.000  $\chi^2/\text{NDF}$ : 94766751436093

All: 1113.201+/-0.000  $\chi^2/\text{NDF}$ : 23166622604

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

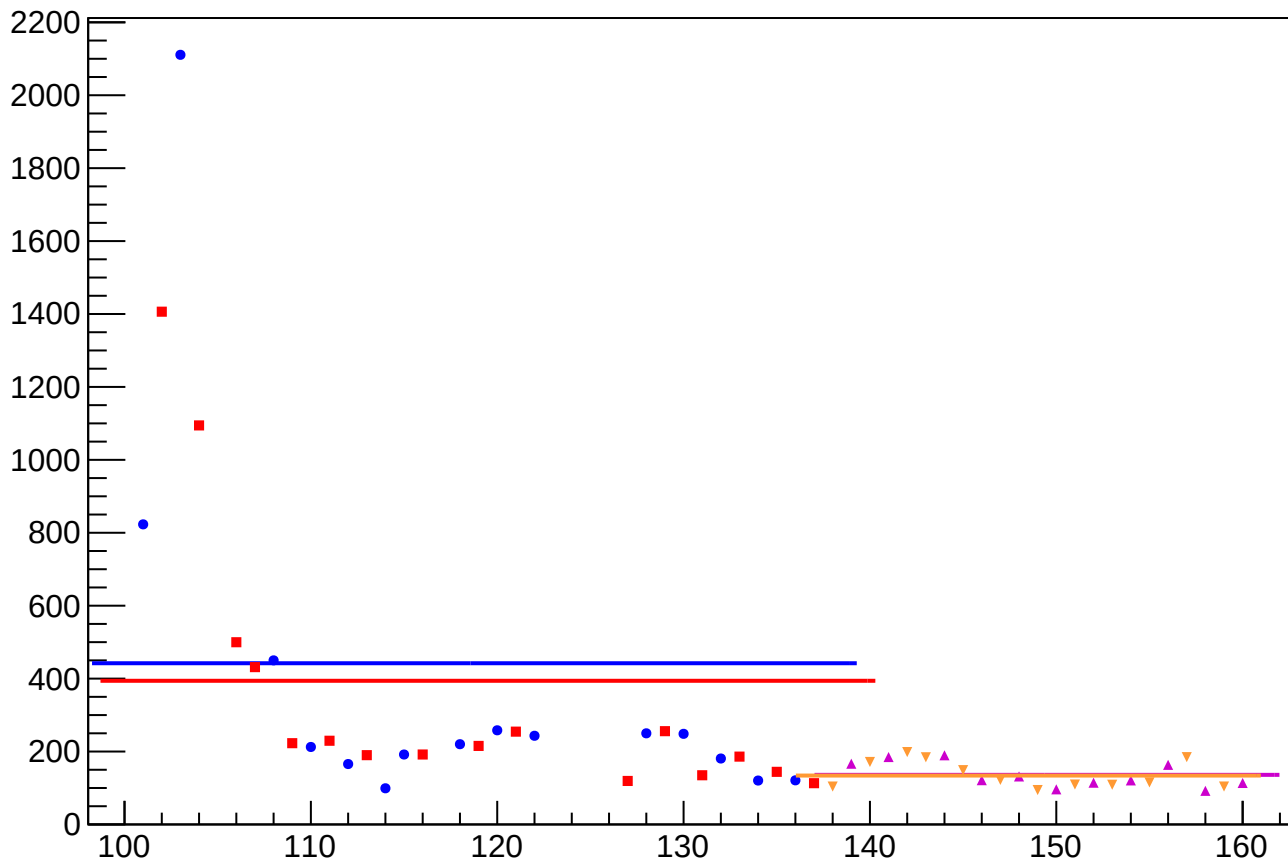
# dit\_usr\_coil6\_mean vs Slug



|                             |                                                                    |
|-----------------------------|--------------------------------------------------------------------|
| Right In: -444.512+/-0.000  | $\chi^2/\text{NDF}$ : 396481903501593703066535851229953654784.0/14 |
| Left Out: -577.377+/-0.000  | $\chi^2/\text{NDF}$ : 33181983455831153585838816290043592704.0/11  |
| Right Out: -406.729+/-0.000 | $\chi^2/\text{NDF}$ : 529122421866774810012941782239129108480.0/15 |
| Left In: -540.842+/-0.000   | $\chi^2/\text{NDF}$ : 42670193317497817911030367466366697472.0/10  |

+ sign -522.314+/-0.000  $\chi^2/\text{NDF}$ : 43637268115601  
 All: -503.316+/-0.000  $\chi^2/\text{NDF}$ : 10162540662  
 - sign -484.617+/-0.000  $\chi^2/\text{NDF}$ : 578759927131057

dit\_usr\_coil6\_err\_mean vs Slug



Right In: 442.162+/-0.000  $\chi^2/\text{NDF}$ : 204015999343694089140945697316947361792.0/14

Left Out: 134.122+/-0.000  $\chi^2/\text{NDF}$ : 1108150296028178587463342476455051264.0/11

Right Out: 394.033+/-0.000  $\chi^2/\text{NDF}$ : 105882611624182009489804426207740035072.0/15

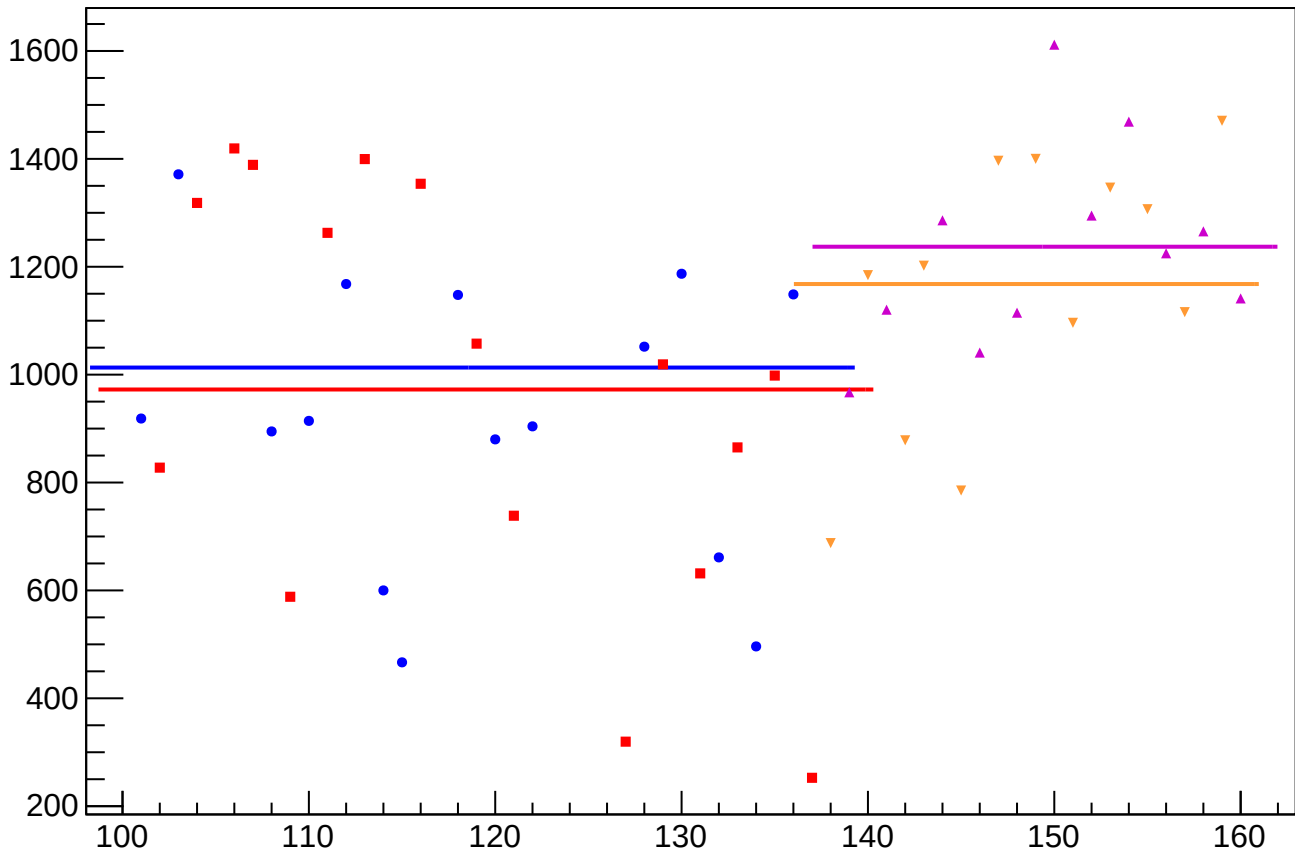
Left In: 136.040+/-0.000  $\chi^2/\text{NDF}$ : 1011093061479650527261127450495549440.0/10

+ sign 261.784+/-0.000  $\chi^2/\text{NDF}$ : 241185059846512

All: 252.922+/-0.000  $\chi^2/\text{NDF}$ : 374106508745

- sign 244.199+/-0.000  $\chi^2/\text{NDF}$ : 132677424429000

dit\_usr\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

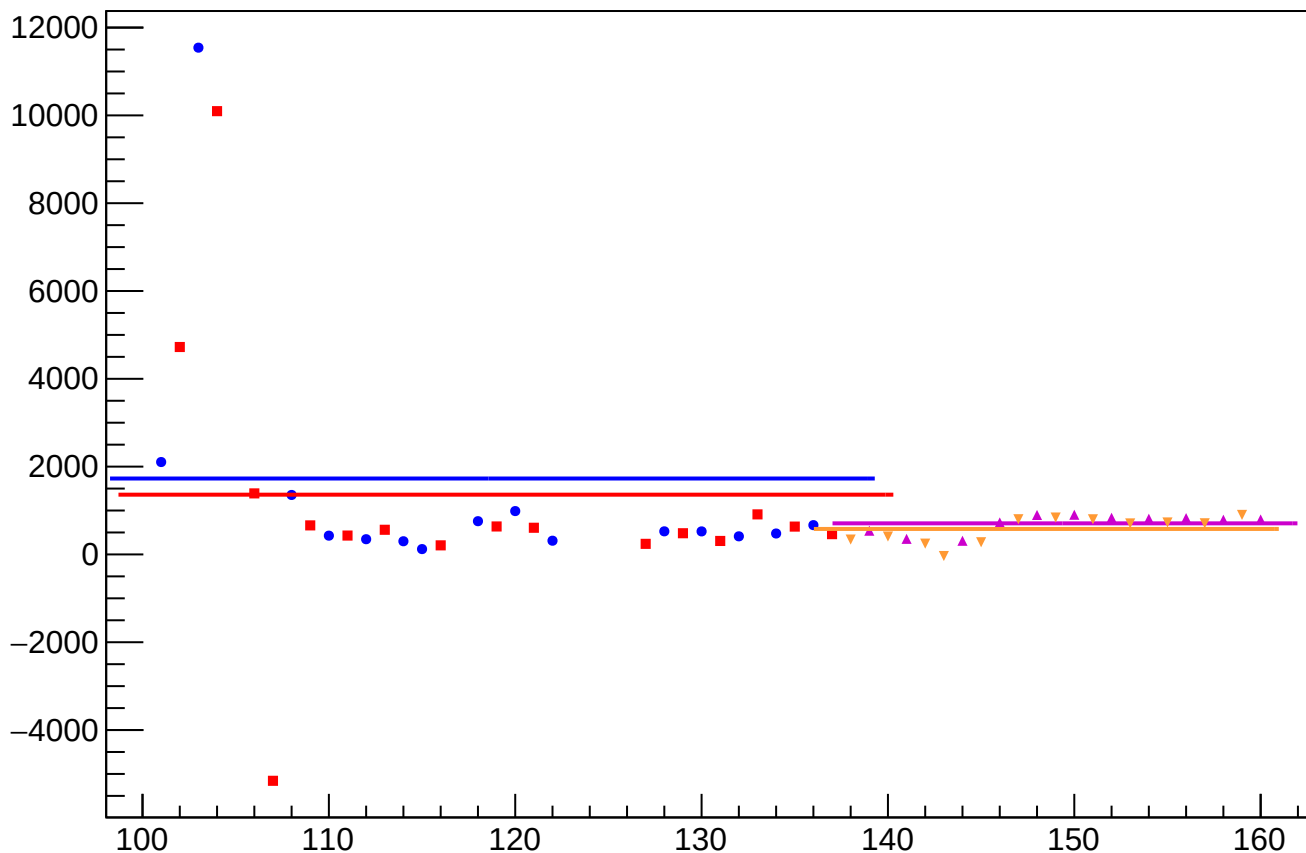
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

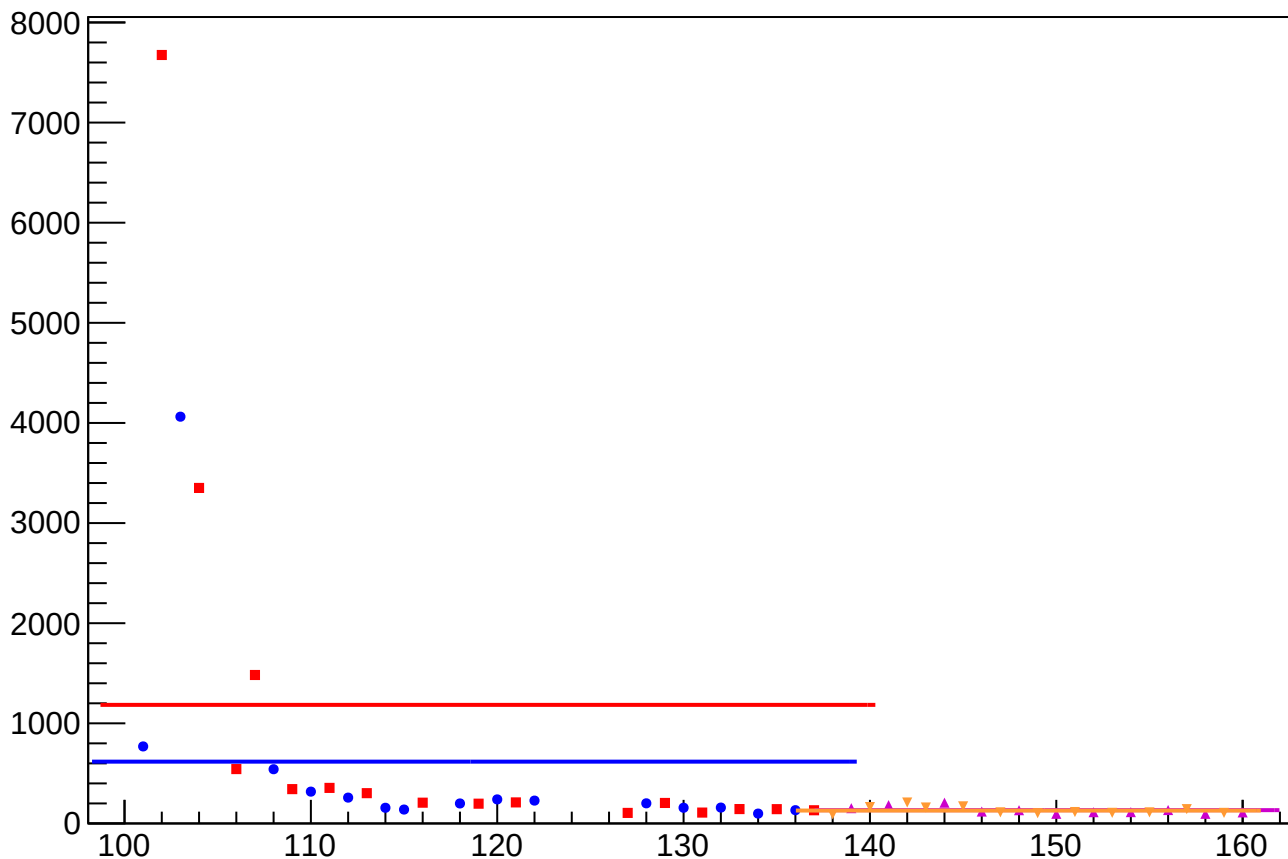
# dit\_atl1\_coil6\_mean vs Slug



Right In: 1729.013+/-0.000  $\chi^2/\text{NDF}$ : 6413121297273347408075624116507964866560.0/14  
 Left Out: 580.248+/-0.000  $\chi^2/\text{NDF}$ : 70857978434076624009429979212728500224.0/11  
 Right Out: 1360.914+/-0.000  $\chi^2/\text{NDF}$ : 6431605933148863413038417850186506174464.0/15  
 Left In: 707.889+/-0.000  $\chi^2/\text{NDF}$ : 38116486188817980699032426002432131072.0/10  
 All: 1018.700+/-0.000  $\chi^2/\text{NDF}$ : 13624809932  
 + sign 1056.333+/-0.000  $\chi^2/\text{NDF}$ : 69854955946737  
 - sign 981.659+/-0.000  $\chi^2/\text{NDF}$ : 663491357929352



dit\_atl1\_coil6\_err\_mean vs Slug



Right In: 617.343+/-0.000  $\chi^2/\text{NDF}$ : 792366012985954198345317750268755968000.0/14

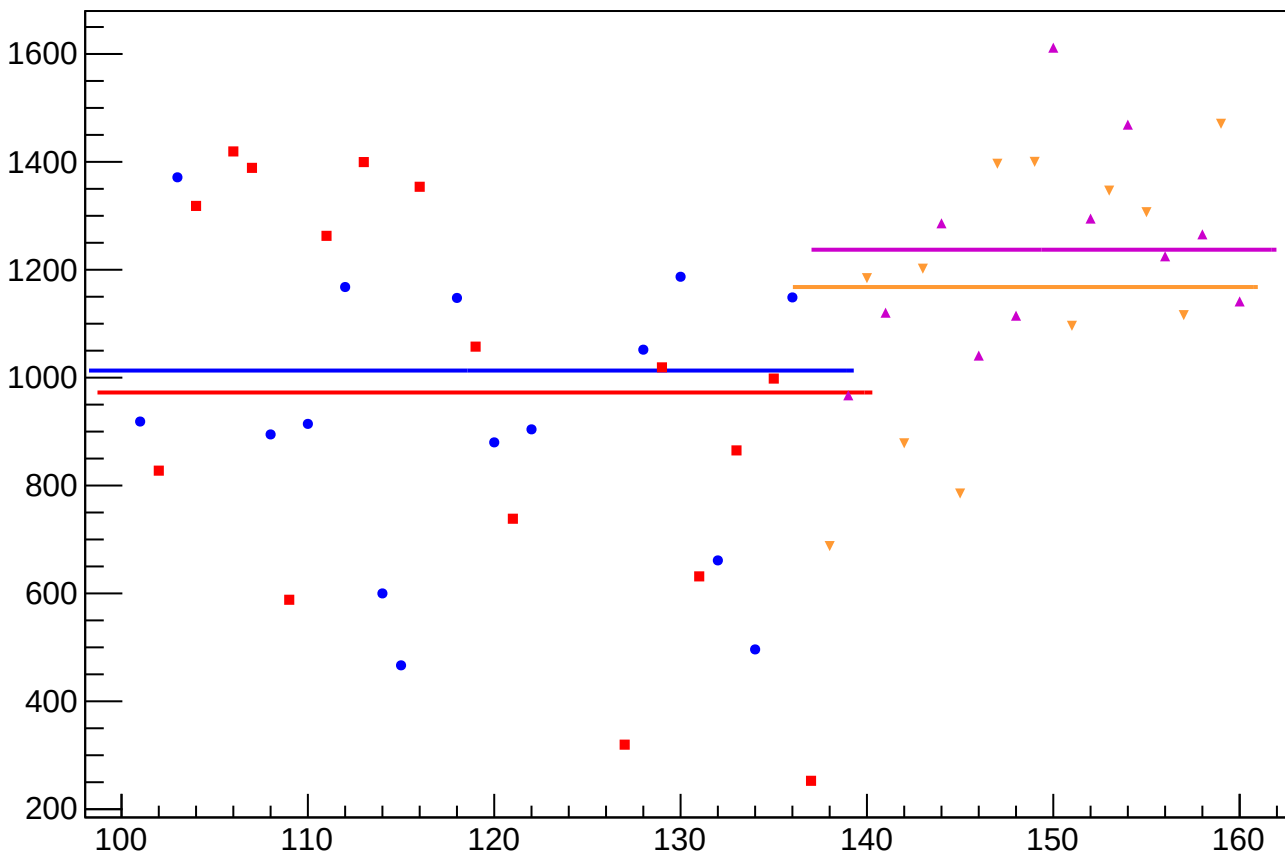
Left Out: 128.916+/-0.000  $\chi^2/\text{NDF}$ : 946446281889996410736335590619348992.0/11

Right Out: 1184.322+/-0.000  $\chi^2/\text{NDF}$ : 3167423043121242666563535820496559931392.0/15

Left In: 132.869+/-0.000  $\chi^2/\text{NDF}$ : 1091839085664014112201463155711279104.0/10

All: 453.464+/-0.000  $\chi^2/\text{NDF}$ : 452709566047

dit\_atl1\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

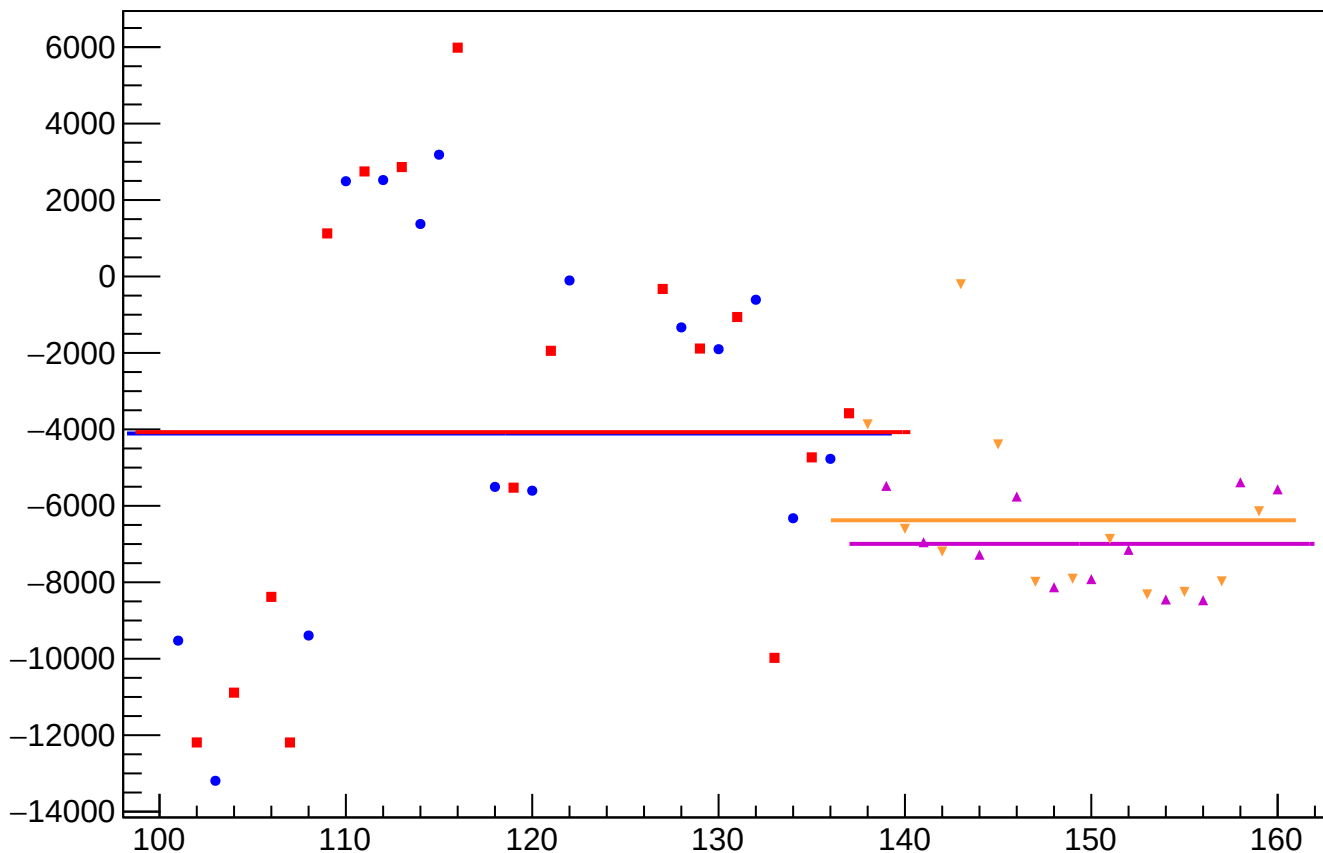
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

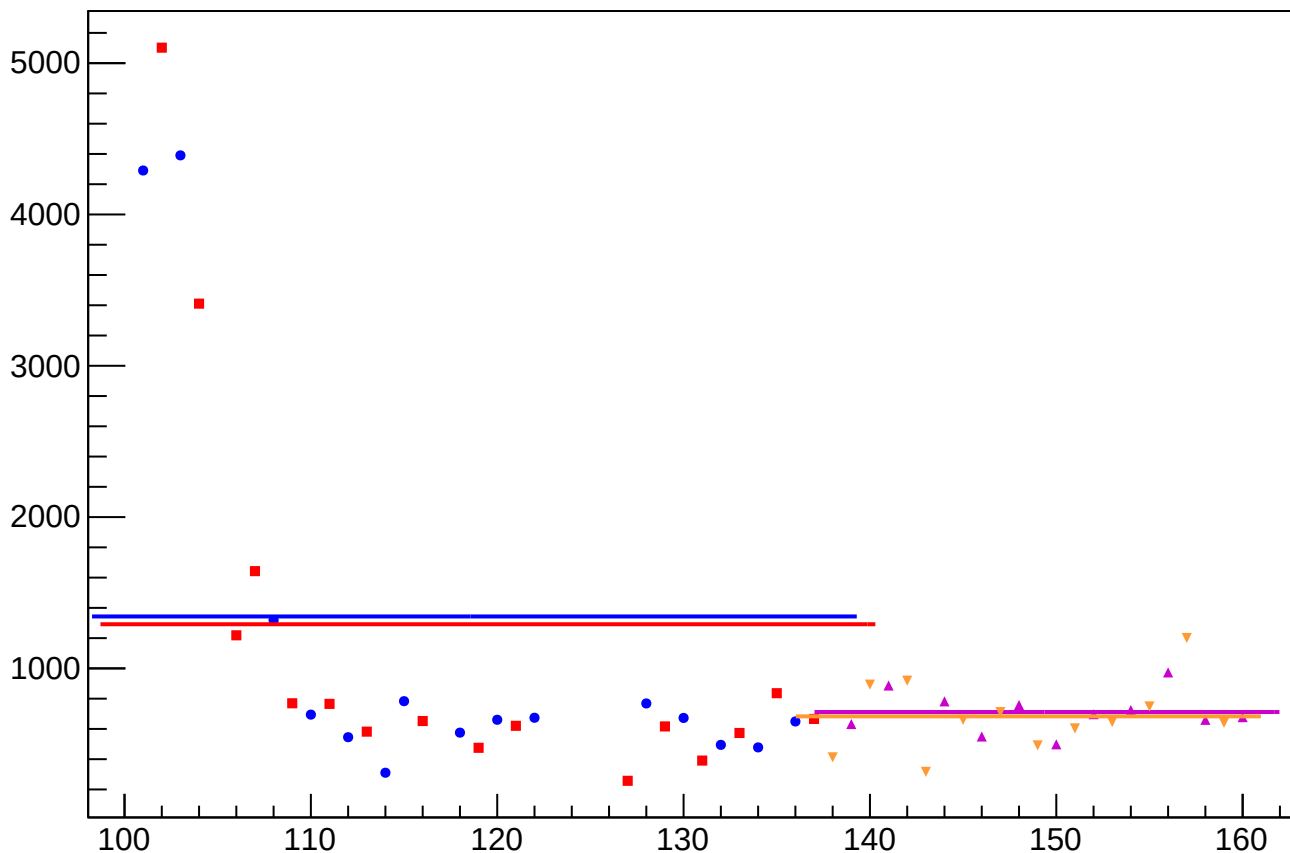
dit\_atl2\_coil6\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: -4107.443+/-0.000  | $\chi^2/\text{NDF}$ : 14527436324982031454277780831211819630592.0/14 |
| Left Out: -6377.972+/-0.000  | $\chi^2/\text{NDF}$ : 4622591154954588275207693526333594271744.0/11  |
| Right Out: -4072.120+/-0.000 | $\chi^2/\text{NDF}$ : 20367171423690168095778854678764929941504.0/15 |
| Left In: -6994.812+/-0.000   | $\chi^2/\text{NDF}$ : 1231738289385705389055875270097690951680.0/10  |

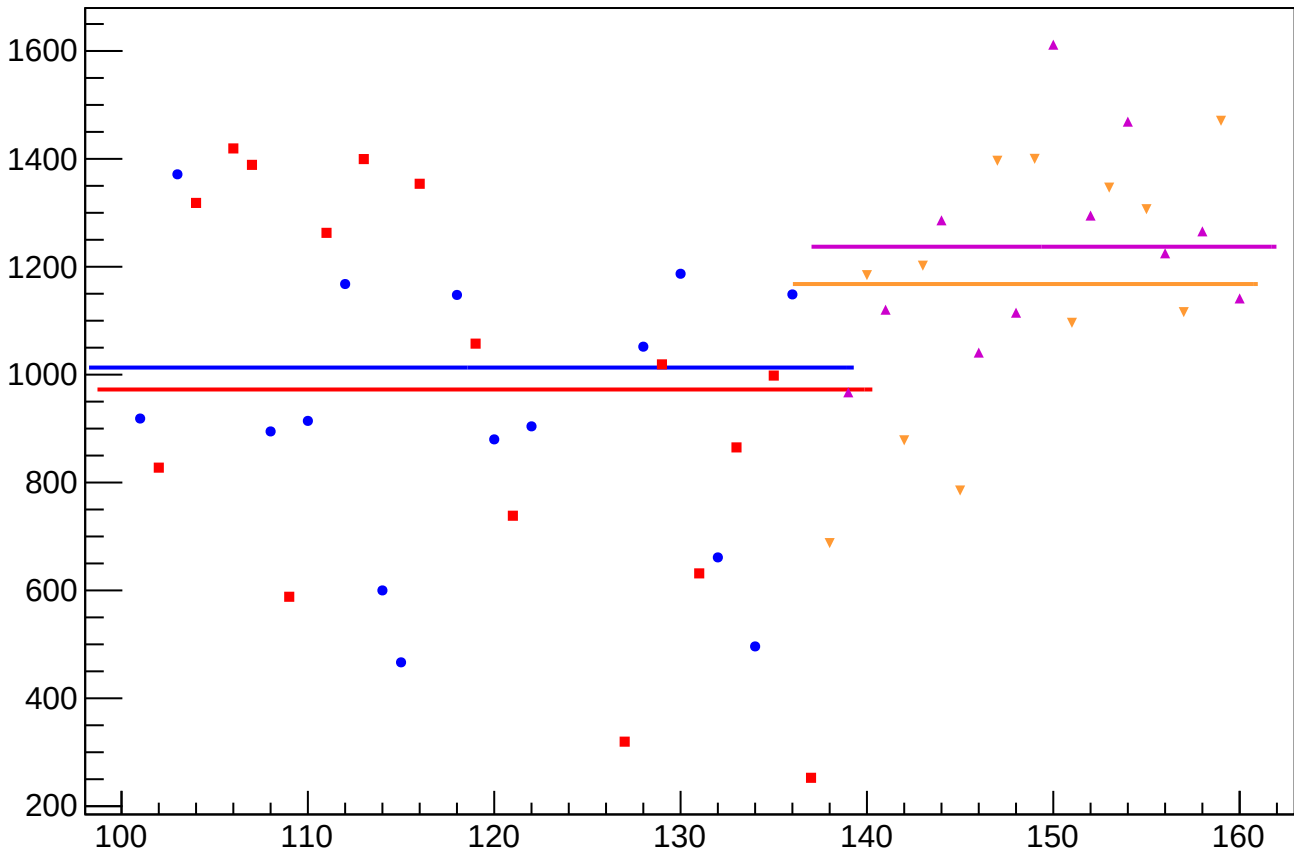
+ sign -5436.993+/-0.000  $\chi^2/\text{NDF}$ : 2110921720753  
 All: -5604.574+/-0.000  $\chi^2/\text{NDF}$ : 4610437232  
 - sign -5769.523+/-0.000  $\chi^2/\text{NDF}$ : 24907888529528

dit\_atl2\_coil6\_err\_mean vs Slug



Right In: 1343.321+/-0.000  $\chi^2/\text{NDF}$ : 1317478352429773686550511077330771771392.0/14  
 Left Out: 683.065+/-0.000  $\chi^2/\text{NDF}$ : 46379995695844949663521519572812300288.0/11  
 Right Out: 1291.796+/-0.000  $\chi^2/\text{NDF}$ : 1323568917008872977905960011586991030272.0/15  
 Left In: 711.726+/-0.000  $\chi^2/\text{NDF}$ : 15873419979583207307068429247017123840.0/10

dit\_atl2\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

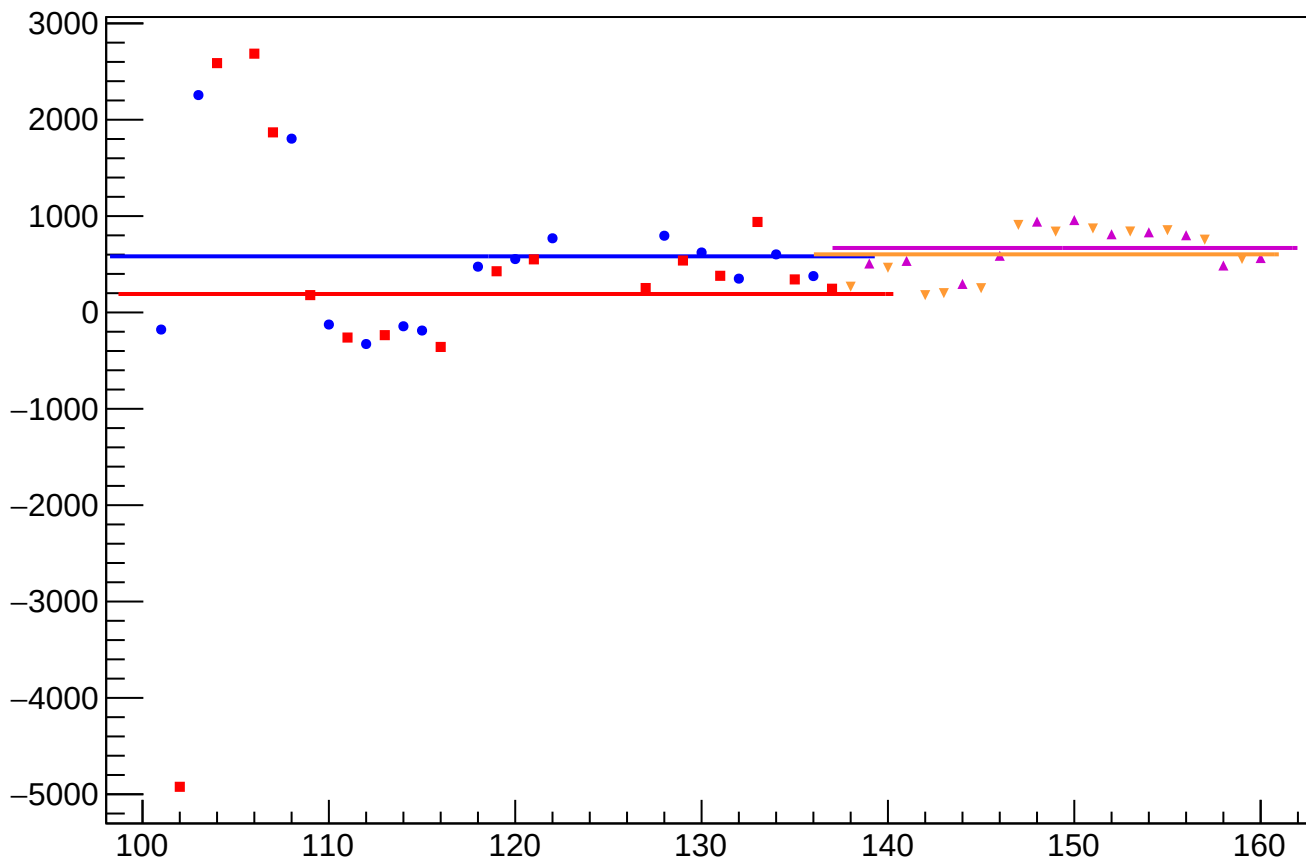
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_atr1\_coil6\_mean vs Slug



Right In: 582.390+/-0.000  $\chi^2/\text{NDF}$ : 338796567623032040072791996460490031104.0/14

Left Out: 603.094+/-0.000  $\chi^2/\text{NDF}$ : 68810038419463001004878574988679970816.0/11

Right Out: 191.587+/-0.000  $\chi^2/\text{NDF}$ : 2168762120552346223416743005020716269568.0/15

Left In: 669.155+/-0.000  $\chi^2/\text{NDF}$ : 39481195240563617253842230522616479744.0/10

+ sign 594.514+/-0.000  $\chi^2/\text{NDF}$ : 407769521673703

All: 531.231+/-0.000  $\chi^2/\text{NDF}$ : 271680523727

- sign 468.943+/-0.000  $\chi^2/\text{NDF}$ : 229659160910176

dit\_atr1\_coil6\_err\_mean vs Slug



Right In: 542.328+/-0.000  $\chi^2/\text{NDF}$ : 414378812003795549649034048462817067008.0/14

Left Out: 141.867+/-0.000  $\chi^2/\text{NDF}$ : 675701485078594006846282081211777024.0/11

Right Out: 853.203+/-0.000  $\chi^2/\text{NDF}$ : 2574076381441046787772449137133917044736.0/15

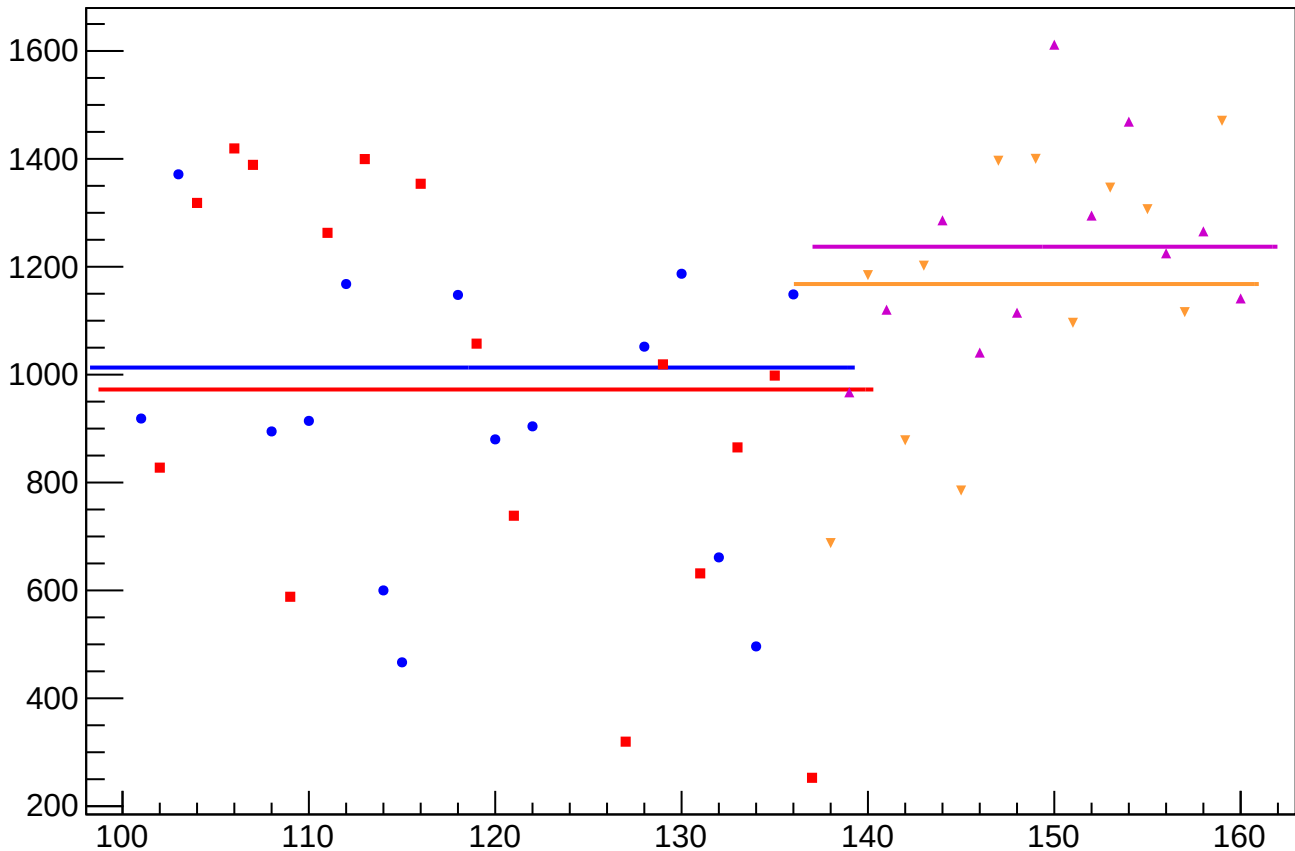
Left In: 145.502+/-0.000  $\chi^2/\text{NDF}$ : 782066035610550272928661281894825984.0/10

+ sign 307.831+/-0.000  $\chi^2/\text{NDF}$ : 475999879031261

All: 375.544+/-0.000  $\chi^2/\text{NDF}$ : 325911775332

- sign 442.194+/-0.000  $\chi^2/\text{NDF}$ : 276887014570090

dit\_atr1\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

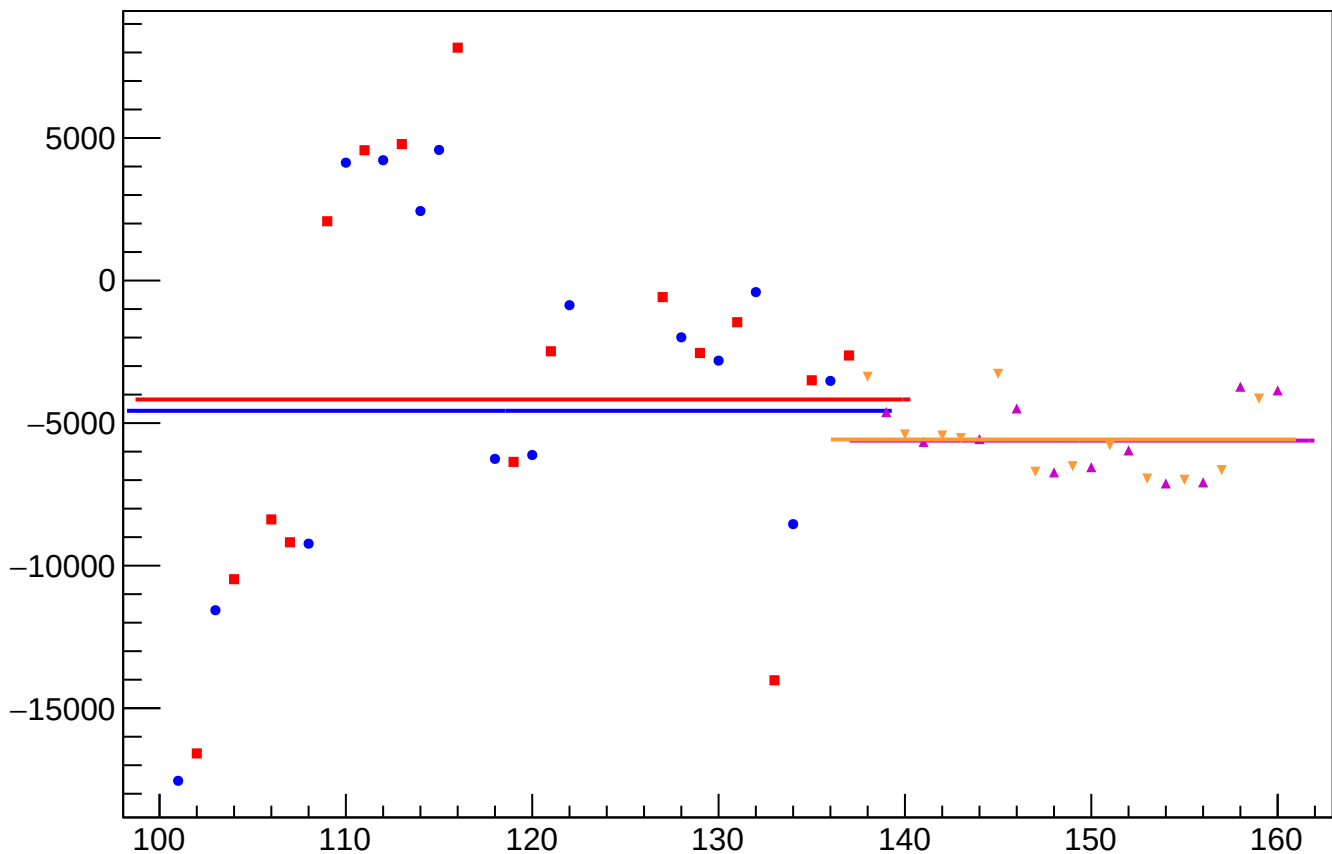
+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460



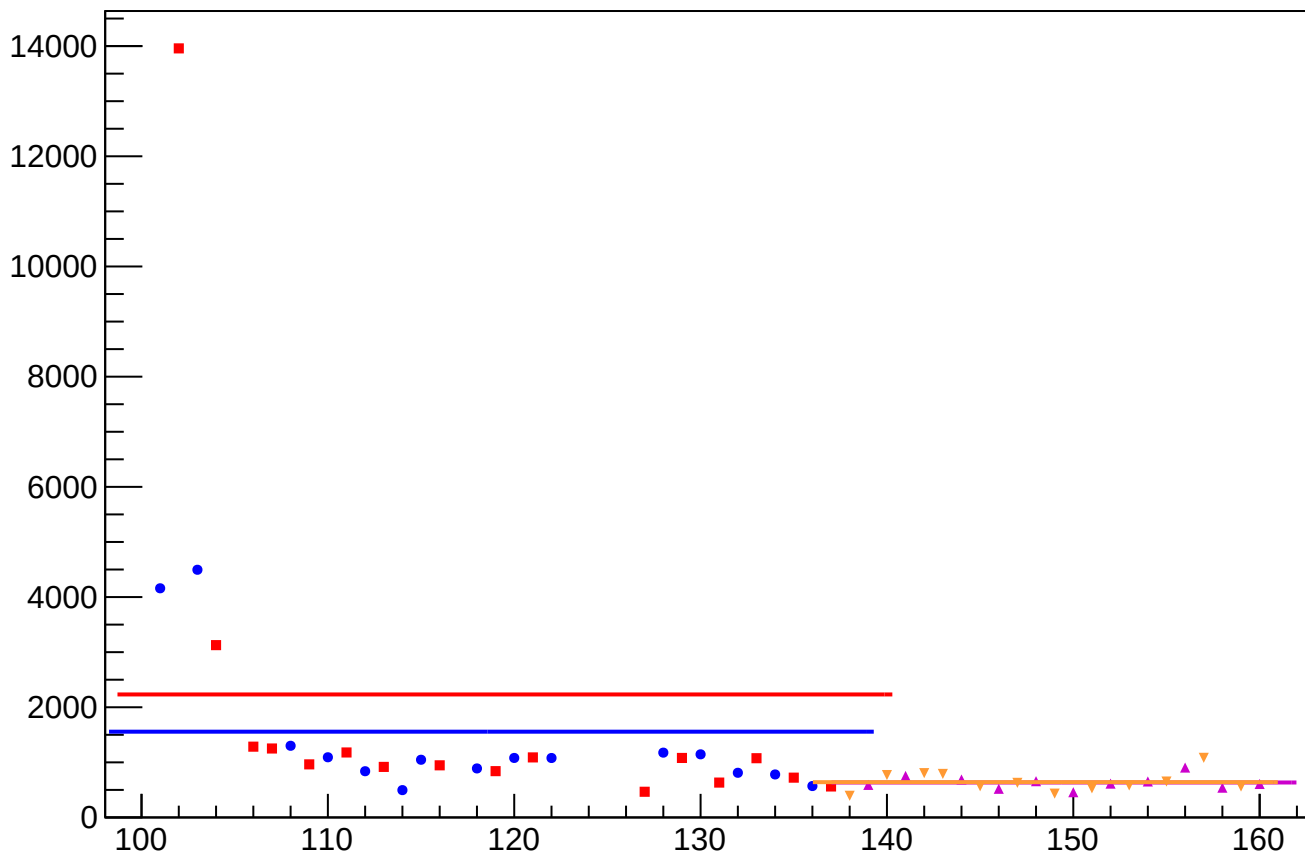
dit\_atr2\_coil6\_mean vs Slug



|                              |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Right In: -4568.297+/-0.000  | $\chi^2/\text{NDF}$ : 24195052148165719540713110921977756909568.0/14 |
| Left Out: -5574.062+/-0.000  | $\chi^2/\text{NDF}$ : 1562689011038892047530316656159376801792.0/11  |
| Right Out: -4170.773+/-0.000 | $\chi^2/\text{NDF}$ : 30967248832187912041113909559481103024128.0/15 |
| Left In: -5613.024+/-0.000   | $\chi^2/\text{NDF}$ : 1272210659936261957248133173503170969600.0/10  |

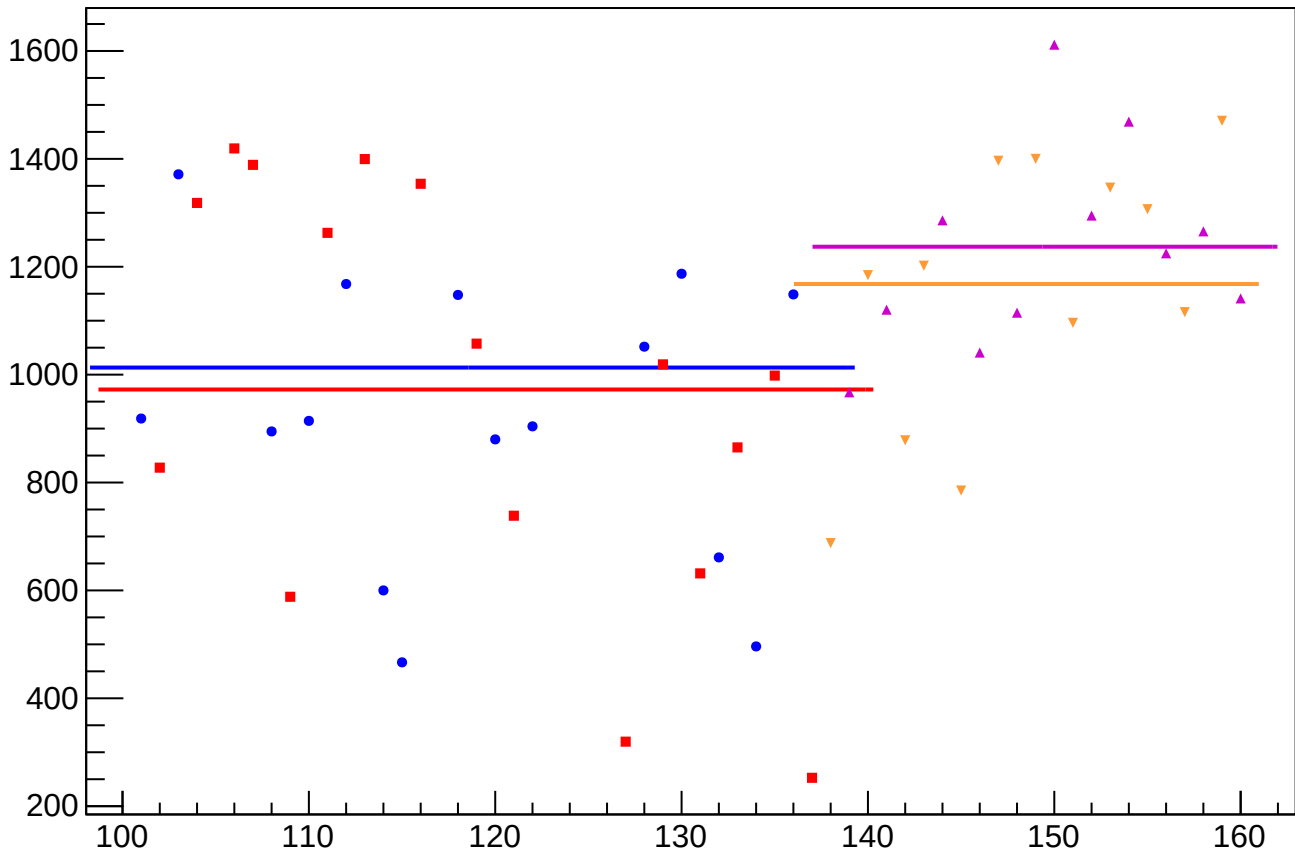
+ sign -5157.241+/-0.000  $\chi^2/\text{NDF}$ : 2614216939022  
 All: -5082.223+/-0.000  $\chi^2/\text{NDF}$ : 5920488345  
 - sign -5008.384+/-0.000  $\chi^2/\text{NDF}$ : 33045226744274

dit\_atr2\_coil6\_err\_mean vs Slug



Right In: 1556.763+/-0.000  $\chi^2/\text{NDF}$ : 1139364239218600567191855131756930793472.0/14  
 Left Out: 640.537+/-0.000  $\chi^2/\text{NDF}$ : 30170658754052148161516421209078628352.0/11  
 Right Out: 2232.520+/-0.000  $\chi^2/\text{NDF}$ : 8990395725533930134878595569706942332928.0/15  
 Left In: 634.562+/-0.000  $\chi^2/\text{NDF}$ : 12308442809403031190669556314642841600.0/10

dit\_atr2\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000

$\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

Right Out: 972.465+/-0.000

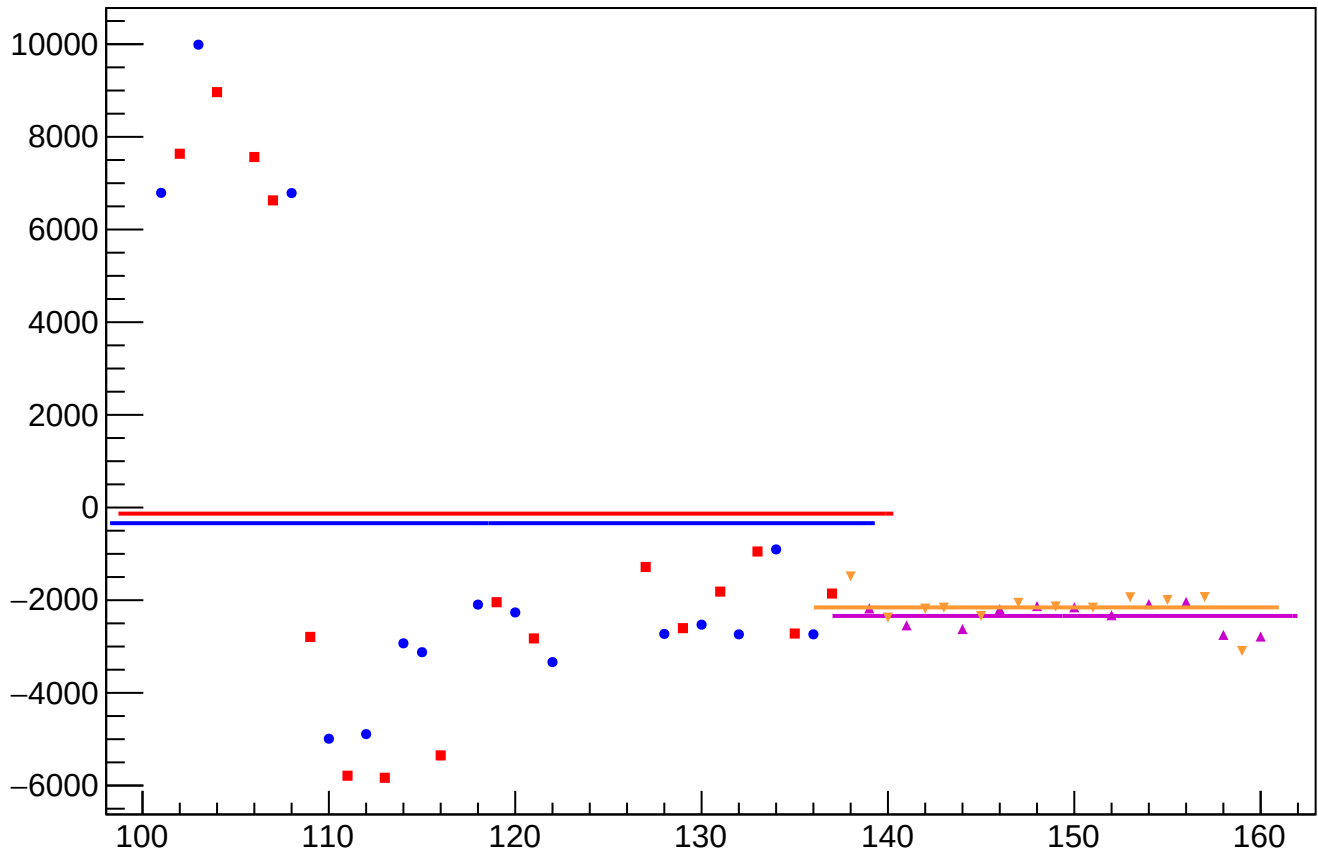
$\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Left In: 1237.150+/-0.000

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_sam1\_coil6\_mean vs Slug



Right In: -337.865+/-0.000  $\chi^2/\text{NDF}$ : 15152515933007079891661097940762081886208.0/14

Left Out: -2155.781+/-0.000  $\chi^2/\text{NDF}$ : 123219365127325232212410930135251812352.0/11

Right Out: -131.545+/-0.000  $\chi^2/\text{NDF}$ : 16473217651078877976377424419956902068224.0/15

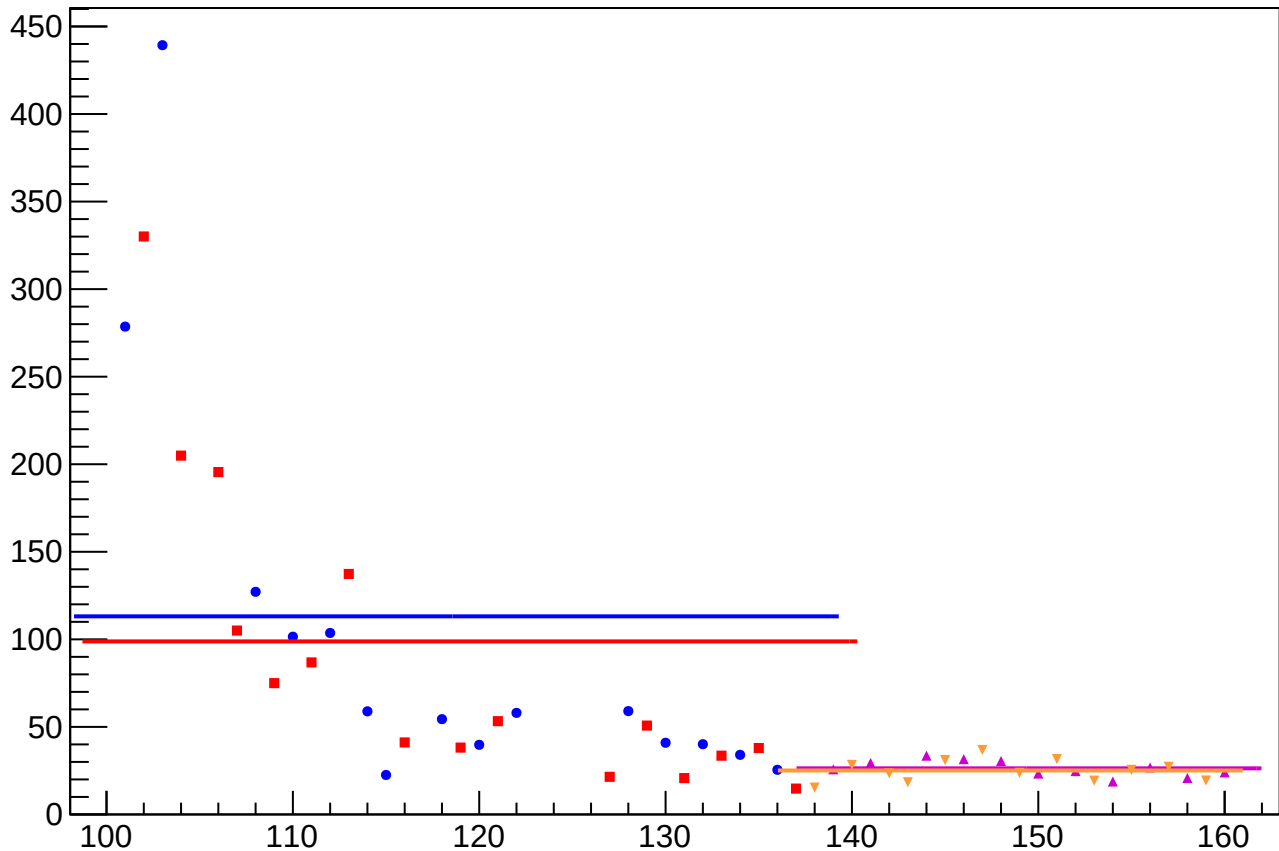
Left In: -2339.639+/-0.000  $\chi^2/\text{NDF}$ : 62860144247456957543810906284181422080.0/10

+ sign -1402.379+/-0.000  $\chi^2/\text{NDF}$ : 1653167827528

All: -1408.202+/-0.000  $\chi^2/\text{NDF}$ : 3495655876

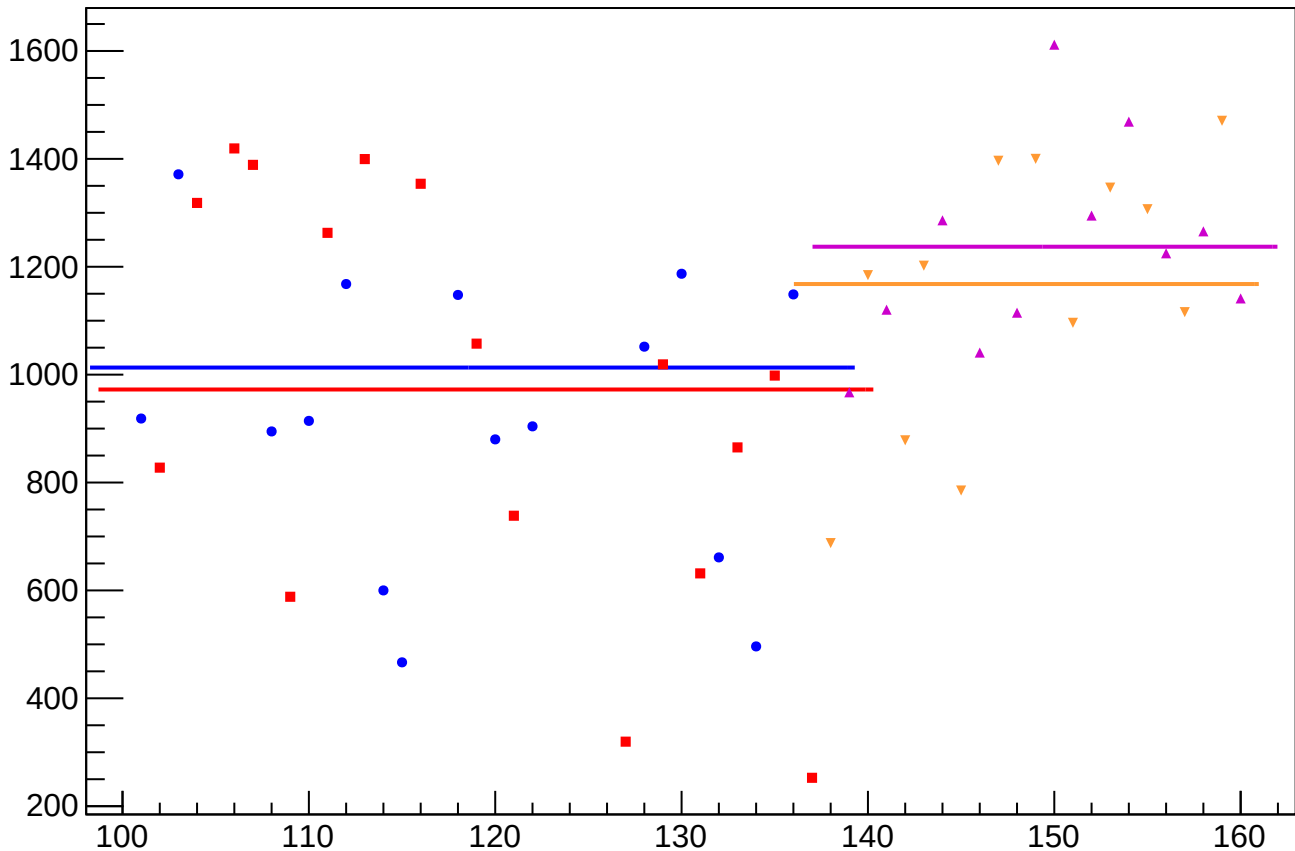
- sign -1413.933+/-0.000  $\chi^2/\text{NDF}$ : 18424775138160

dit\_sam1\_coil6\_err\_mean vs Slug



Right In: 113.134 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 9989638354332004017458192433874468864.0/14  
 Left Out: 25.122 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 34236554639910499014555581559078912.0/11  
 Right Out: 98.833 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 5510365308590426333953610701260980224.0/15  
 Left In: 26.331 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 18142873408814573481950758043648000.0/10

dit\_sam1\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

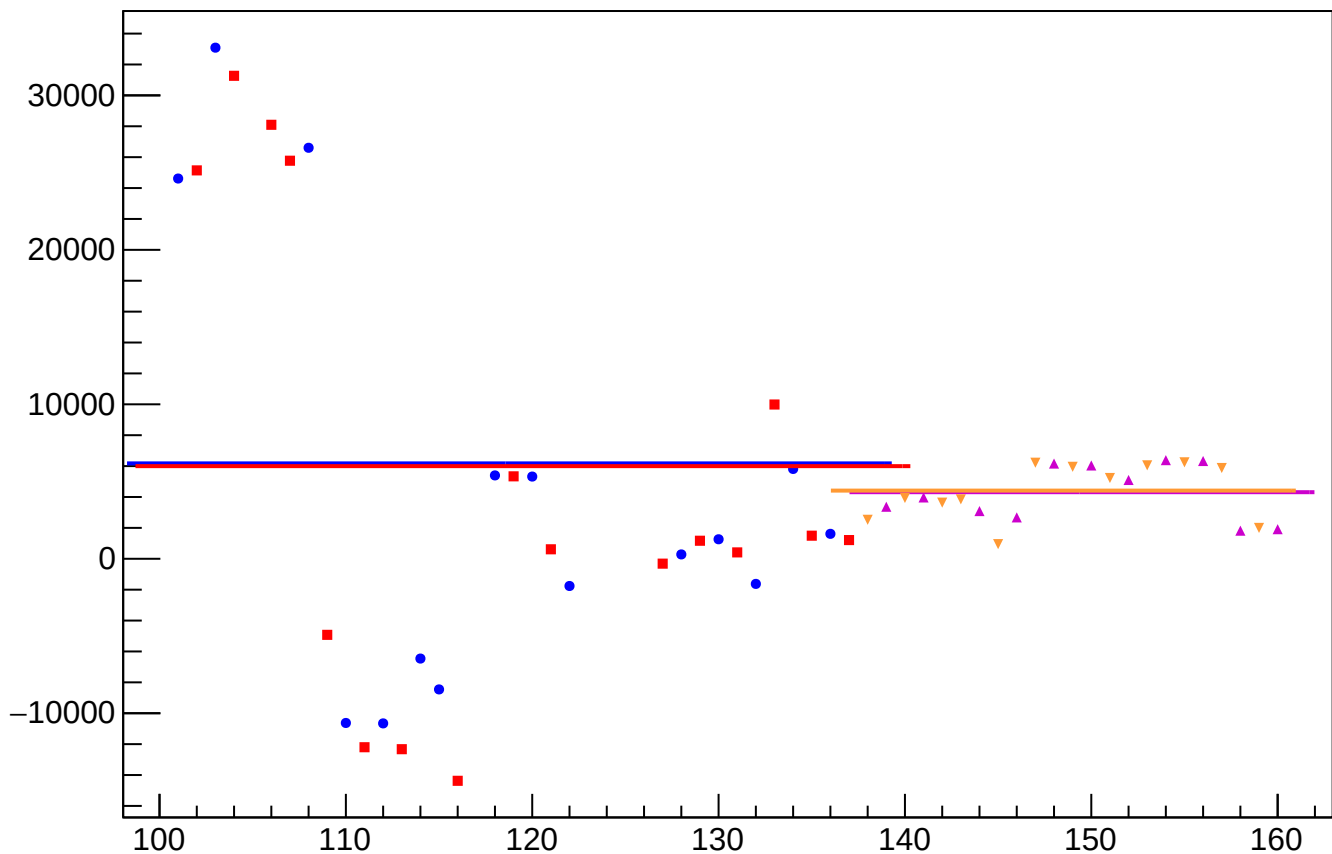
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

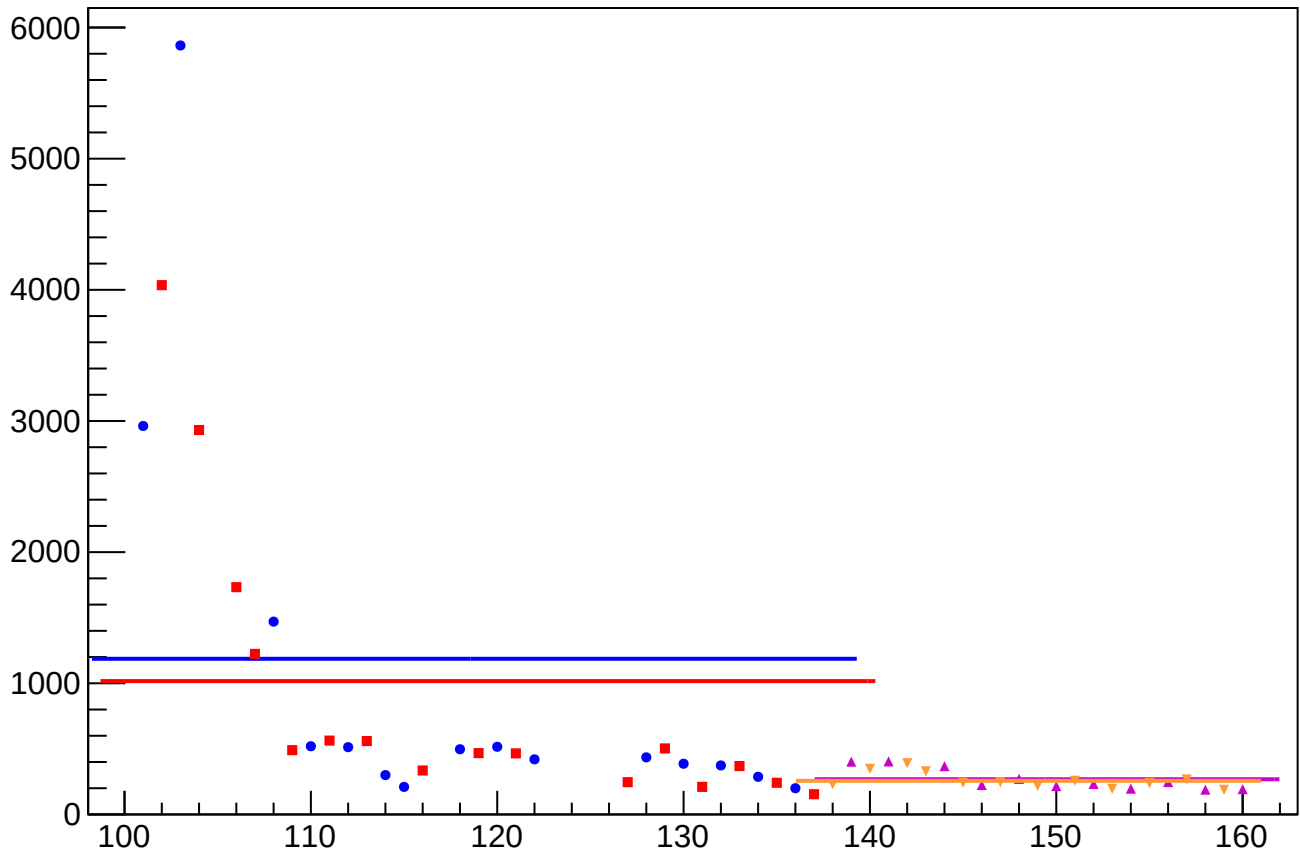
- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_sam2\_coil6\_mean vs Slug



Right In: 6175.493+/-0.000  $\chi^2/\text{NDF}$ : 117260877162921223967478349050708452442112.0/14  
 Left Out: 4413.614+/-0.000  $\chi^2/\text{NDF}$ : 2955972864027480615108884679842756296704.0/11  
 Right Out: 5996.727+/-0.000  $\chi^2/\text{NDF}$ : 137057710785025136543407710107916356812800.0/15  
 Left In: 4310.541+/-0.000  $\chi^2/\text{NDF}$ : 2687248811790643780000086030830396243968.0/10

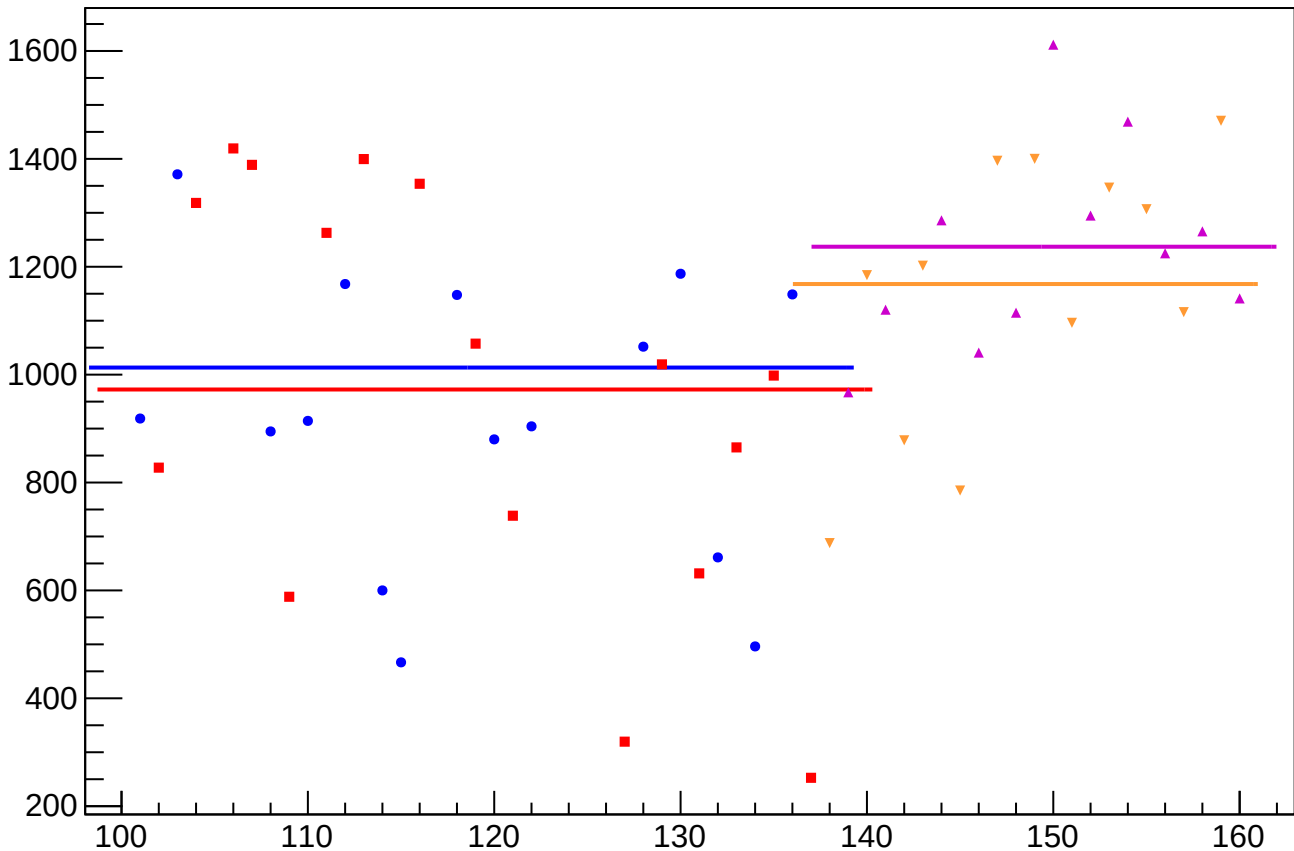
# dit\_sam2\_coil6\_err\_mean vs Slug



Right In: 1186.846 $\pm$ 0.000  $\chi^2$ /NDF: 1796463312802023303623210264680353234944.0/14  
 Left Out: 256.413 $\pm$ 0.000  $\chi^2$ /NDF: 2796377992740210527233445839838904320.0/11  
 Right Out: 1016.732 $\pm$ 0.000  $\chi^2$ /NDF: 927646003466094249558391691024825057280.0/15  
 Left In: 268.493 $\pm$ 0.000  $\chi^2$ /NDF: 5855734975706547823556607966386847744.0/10



dit\_sam2\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000

$\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000

$\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000

$\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

Left In: 1237.150+/-0.000

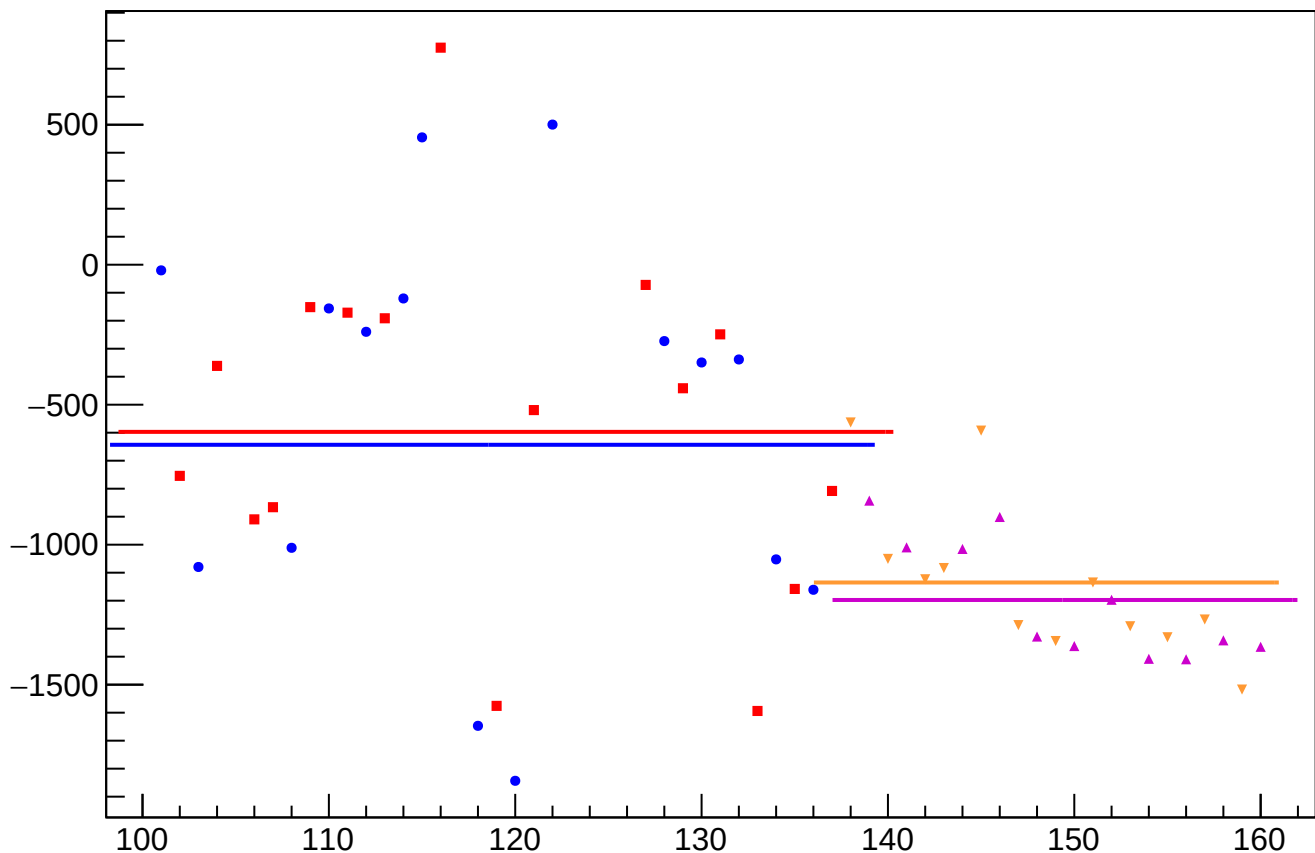
$\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

dit\_sam3\_coil6\_mean vs Slug



Right In: -643.217+/-0.000  $\chi^2/\text{NDF}$ : 272726964608206694027285159784925364224.0/14

Left Out: -1135.033+/-0.000  $\chi^2/\text{NDF}$ : 73789817632186163776632146016354697216.0/11

Right Out: -597.043+/-0.000  $\chi^2/\text{NDF}$ : 210733370798031449363504004319005376512.0/15

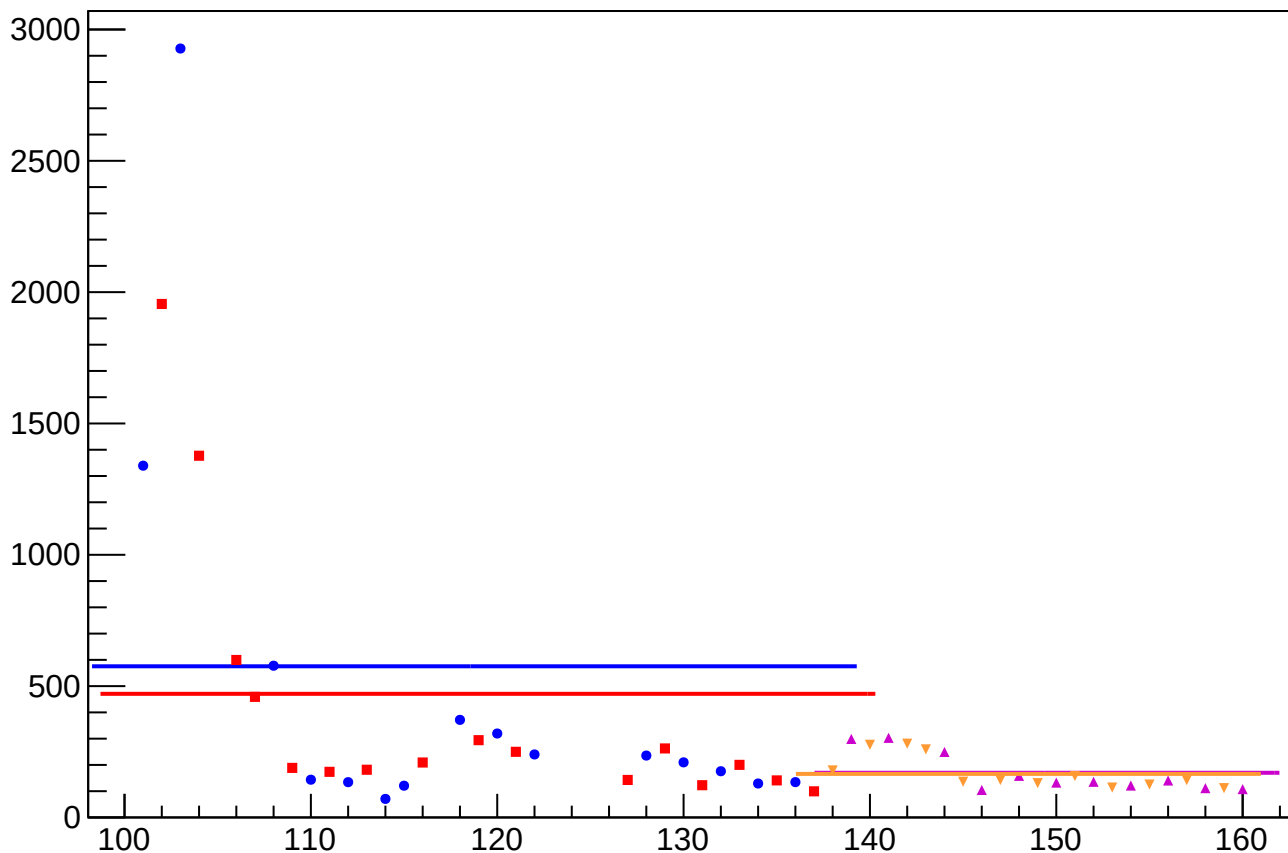
Left In: -1197.503+/-0.000  $\chi^2/\text{NDF}$ : 38624722141560961102710570239066636288.0/10

+ sign -931.209+/-0.000  $\chi^2/\text{NDF}$ : 43844054596659

All: -938.547+/-0.000  $\chi^2/\text{NDF}$ : 82763369578

- sign -945.770+/-0.000  $\chi^2/\text{NDF}$ : 389025821558760

dit\_sam3\_coil6\_err\_mean vs Slug



Right In: 575.526+/-0.000  $\chi^2/\text{NDF}$ : 432680039285849719493276471277131923456.0/14

Left Out: 165.815+/-0.000  $\chi^2/\text{NDF}$ : 3077732362329556605426877868663635968.0/11

Right Out: 470.716+/-0.000  $\chi^2/\text{NDF}$ : 209310604291868219806073768764512403456.0/15

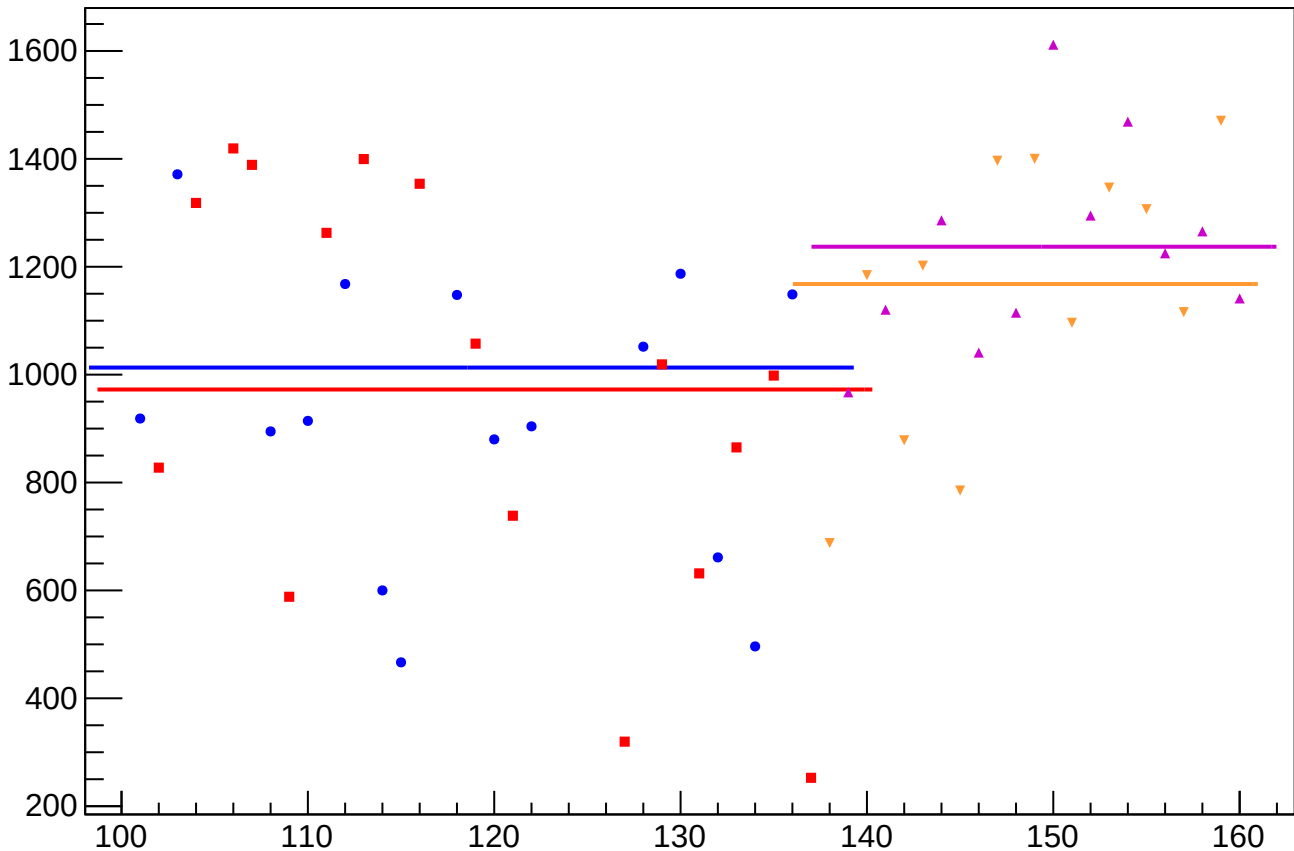
Left In: 170.082+/-0.000  $\chi^2/\text{NDF}$ : 4851165358478650186983079637734653952.0/10

+ sign 335.612+/-0.000  $\chi^2/\text{NDF}$ : 499551292121539

All: 315.709+/-0.000  $\chi^2/\text{NDF}$ : 74995493636

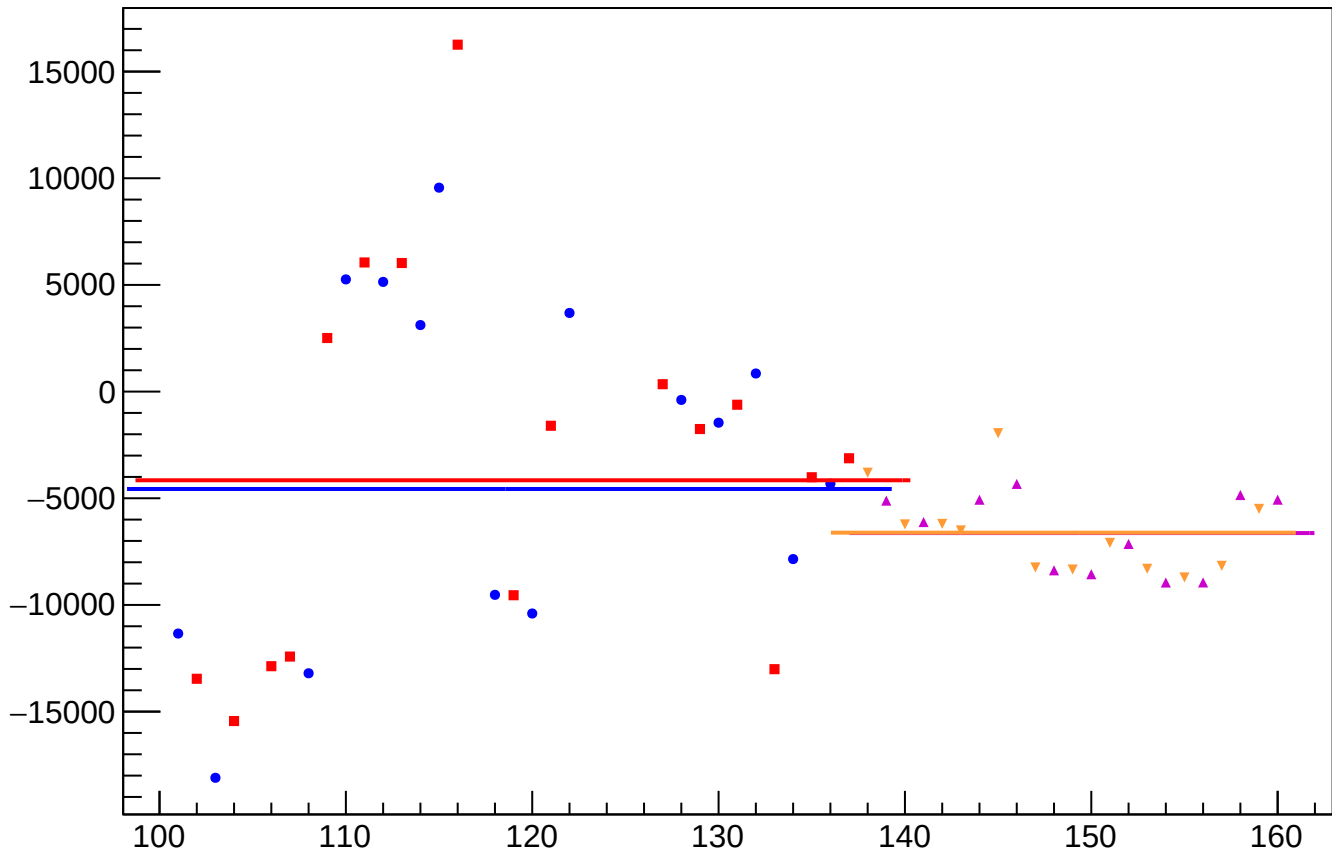
- sign 296.118+/-0.000  $\chi^2/\text{NDF}$ : 249172631287531

# dit\_sam3\_coil6\_Ndata\_mean vs Slug



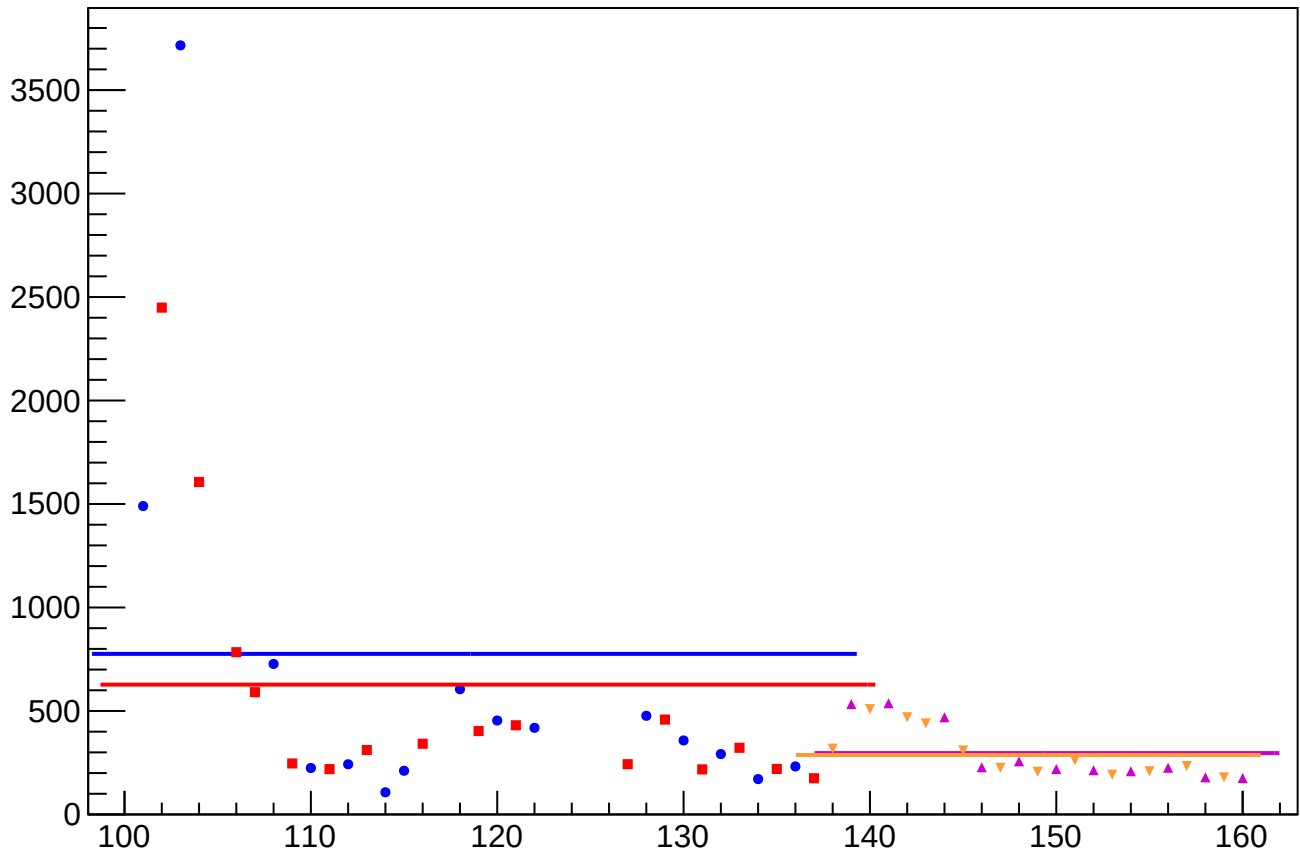
Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14  
 Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11  
 Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15  
 Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

dit\_sam4\_coil6\_mean vs Slug



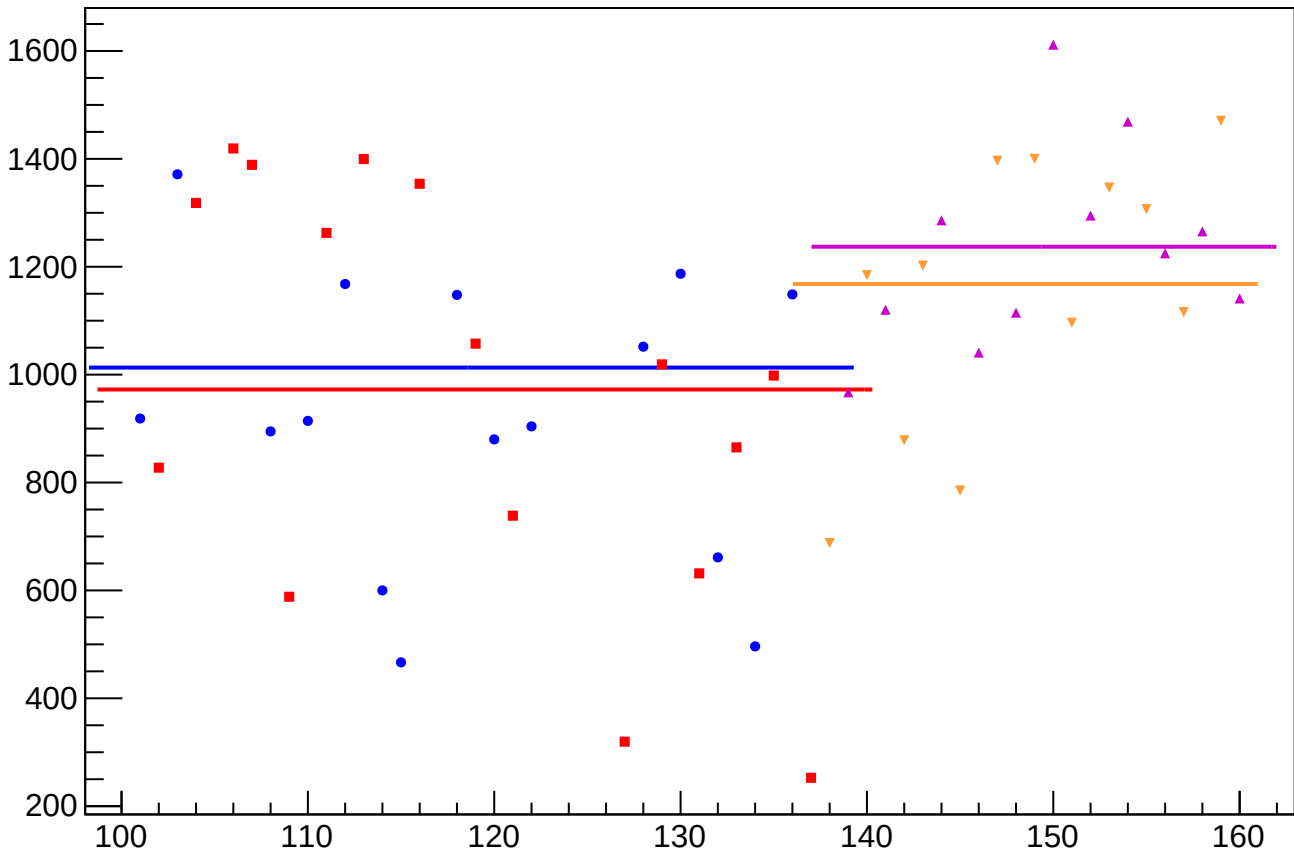
Right In:  $-4565.412 \pm 0.000$   $\chi^2/\text{NDF}: 35667768247432289984899042725155487875072.0/14$   
 Left Out:  $-6612.752 \pm 0.000$   $\chi^2/\text{NDF}: 3759909720266492863199038301551573598208.0/11$   
 Right Out:  $-4156.859 \pm 0.000$   $\chi^2/\text{NDF}: 45539455441659927157708443099930682195968.0/15$   
 Left In:  $-6631.377 \pm 0.000$   $\chi^2/\text{NDF}: 2831140540306304869921468245145345327104.0/10$

dit\_sam4\_coil6\_err\_mean vs Slug



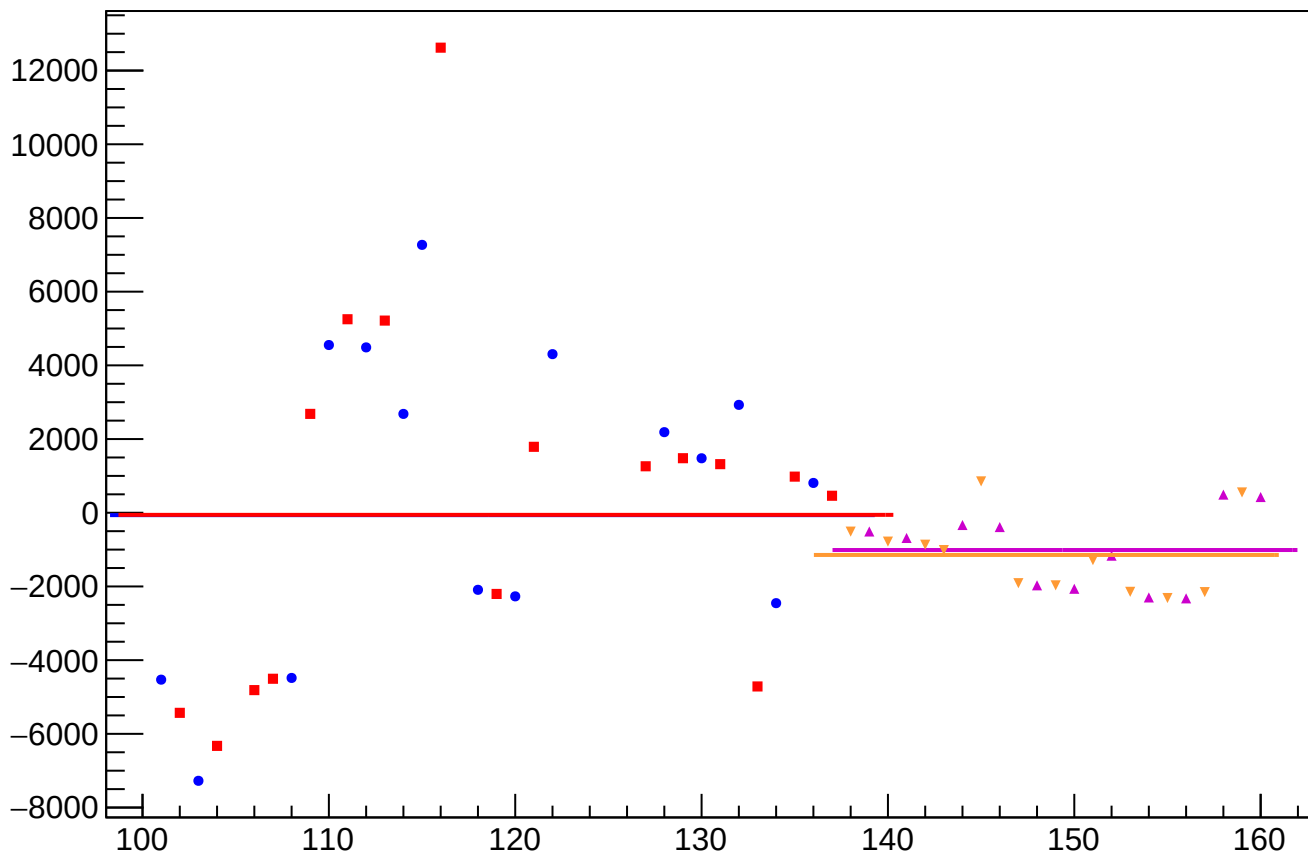
Right In: 775.824+/-0.000  $\chi^2/\text{NDF}$ : 641856726975740612716432458612629045248.0/14  
 Left Out: 287.283+/-0.000  $\chi^2/\text{NDF}$ : 10557467074341773559479069744616701952.0/11  
 Right Out: 627.315+/-0.000  $\chi^2/\text{NDF}$ : 297517676171111924966086193860621369344.0/15  
 Left In: 296.514+/-0.000  $\chi^2/\text{NDF}$ : 17061879022016484064295210228444561408.0/10

# dit\_sam4\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146 $\pm$ 0.000  $\chi^2$ /NDF: 31721270909522099205936100724856324096.0/14  
 Left Out: 1167.974 $\pm$ 0.000  $\chi^2$ /NDF: 54610138783870430946405205692756525056.0/11  
 Right Out: 972.465 $\pm$ 0.000  $\chi^2$ /NDF: 78884457200782655962756069915468234752.0/15  
 Left In: 1237.150 $\pm$ 0.000  $\chi^2$ /NDF: 30323445843993737164691986740223672320.0/10

# dit\_sam5\_coil6\_mean vs Slug



Right In: -64.751+/-0.000  $\chi^2/\text{NDF}$ : 9614223448851814191683817349989558910976.0/14

Left Out: -1145.277+/-0.000  $\chi^2/\text{NDF}$ : 979075596349520821974350897813840199680.0/11

Right Out: -57.229+/-0.000  $\chi^2/\text{NDF}$ : 13780958977008702301942505454387177979904.0/15

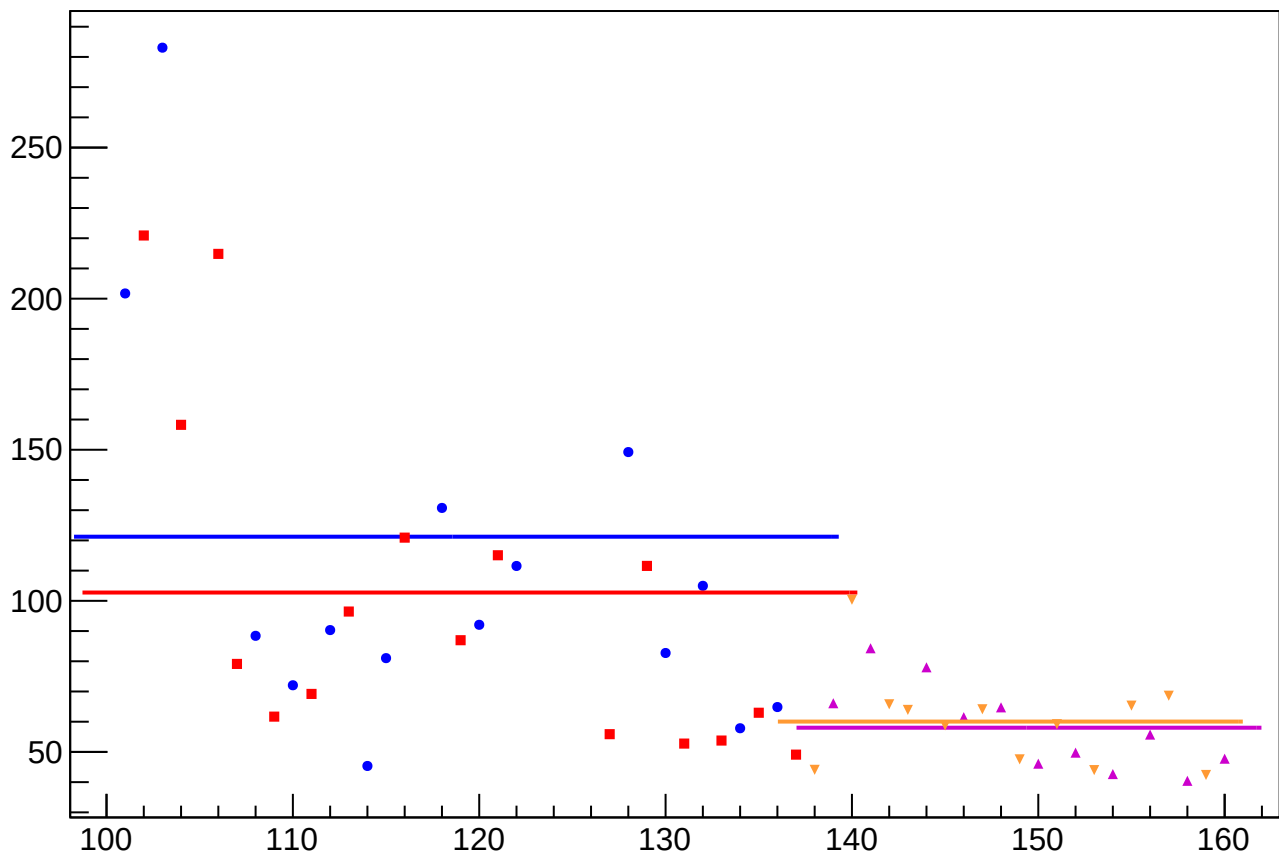
Left In: -1011.284+/-0.000  $\chi^2/\text{NDF}$ : 903909408421874171739001543159795679232.0/10

All: -654.052+/-0.000  $\chi^2/\text{NDF}$ : 26080323896

- sign -611.312+/-0.000  $\chi^2/\text{NDF}$ : 150374623927280

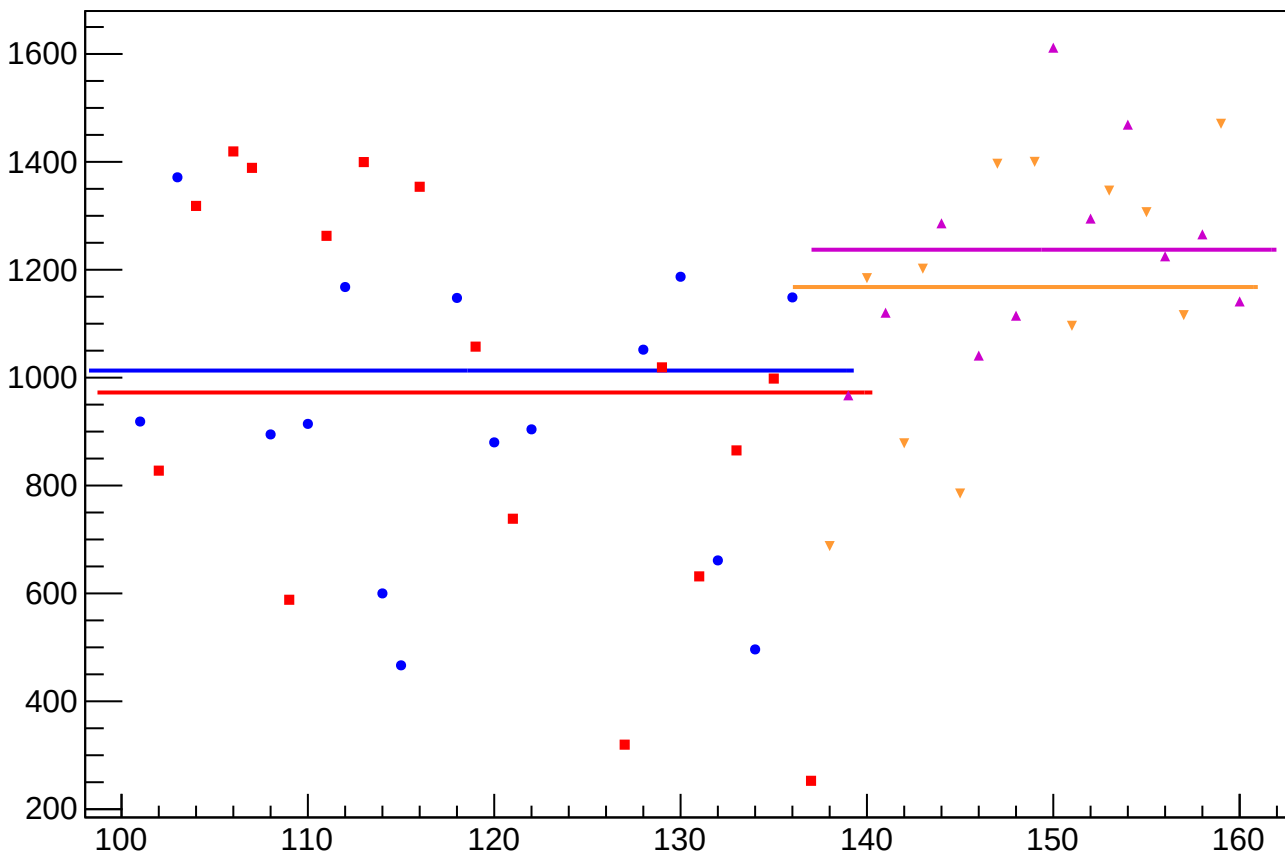


dit\_sam5\_coil6\_err\_mean vs Slug



Right In: 121.228 $\pm$ 0.000  $\chi^2$ /NDF: 2723170857684362574800637594861305856.0/14  
 Left Out: 60.042 $\pm$ 0.000  $\chi^2$ /NDF: 225194152627424805036116621962248192.0/11  
 Right Out: 102.749 $\pm$ 0.000  $\chi^2$ /NDF: 1967668024846010333654427670555918336.0/15  
 Left In: 58.011 $\pm$ 0.000  $\chi^2$ /NDF: 177427701786540438757655027214450688.0/10  
 All: 81.049 $\pm$ 0.000  $\chi^2$ /NDF: 7350332917808  
 + sign 85.399 $\pm$ 0.000  $\chi^2$ /NDF: 4371083748180791  
 - sign 76.766 $\pm$ 0.000  $\chi^2$ /NDF: 2920429745013475

dit\_sam5\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

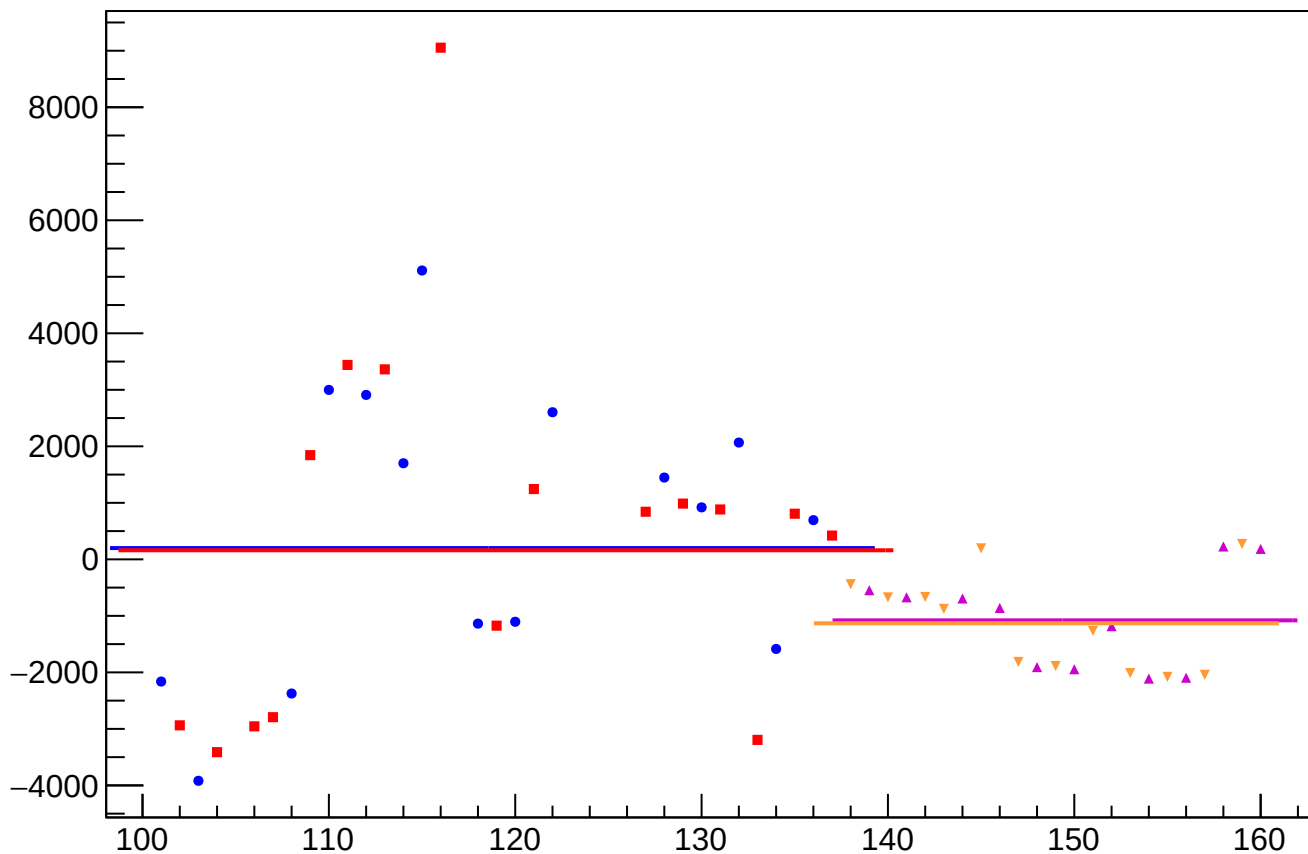
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

dit\_sam6\_coil6\_mean vs Slug



Right In: 199.503+/-0.000  $\chi^2/\text{NDF}$ : 3268159745923533825045181664876849790976.0/14

Left Out: -1131.740+/-0.000  $\chi^2/\text{NDF}$ : 658434610169859056709733978264796397568.0/11

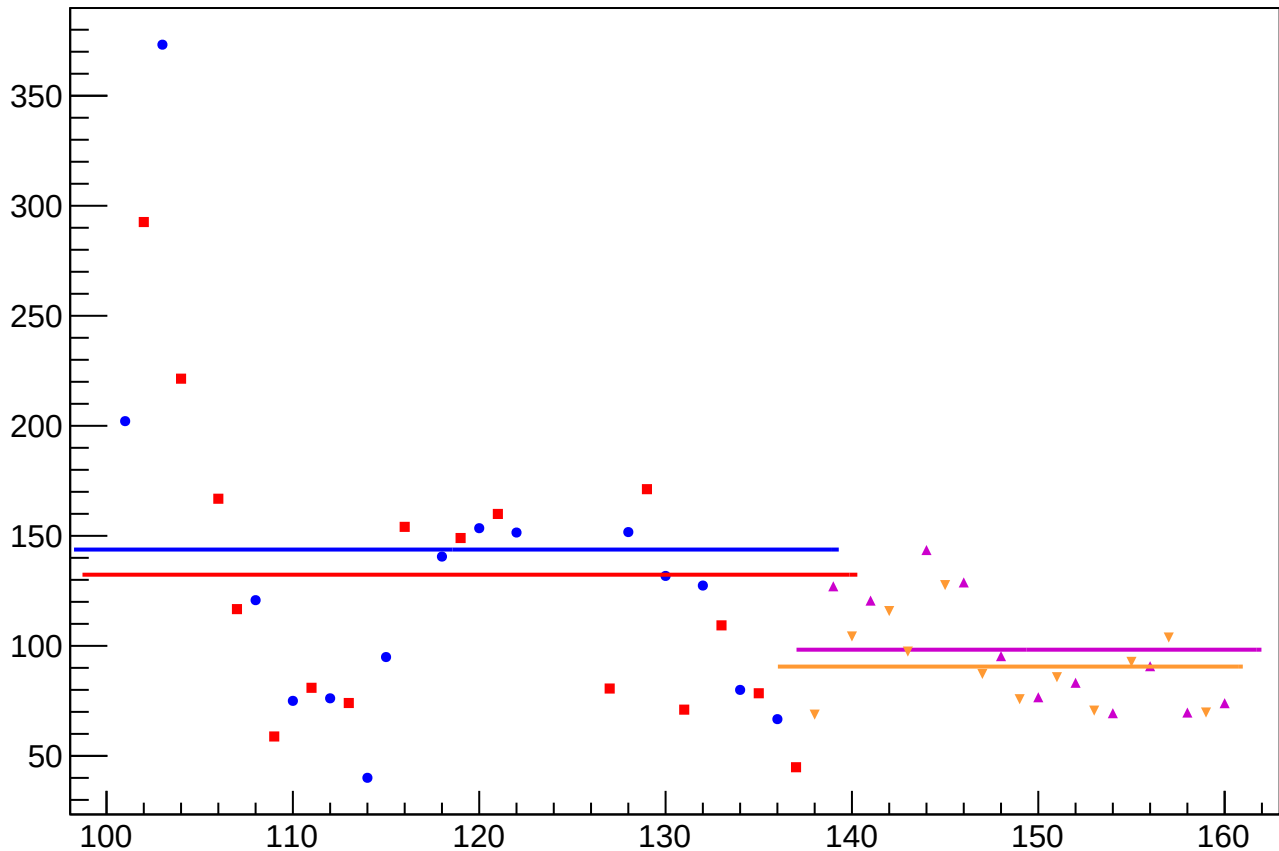
Right Out: 160.512+/-0.000  $\chi^2/\text{NDF}$ : 5680576709461197901526729703706251493376.0/15

Left In: -1079.555+/-0.000  $\chi^2/\text{NDF}$ : 614734398575877452858032752710912049152.0/10

All: -569.773+/-0.000  $\chi^2/\text{NDF}$ : 11491418228

- sign -559.678+/-0.000  $\chi^2/\text{NDF}$ : 689099774035240

# dit\_sam6\_coil6\_err\_mean vs Slug



Right In: 143.764 $\pm$ 0.000  $\chi^2$ /NDF: 4514785869565777849900508591821946880.0/14

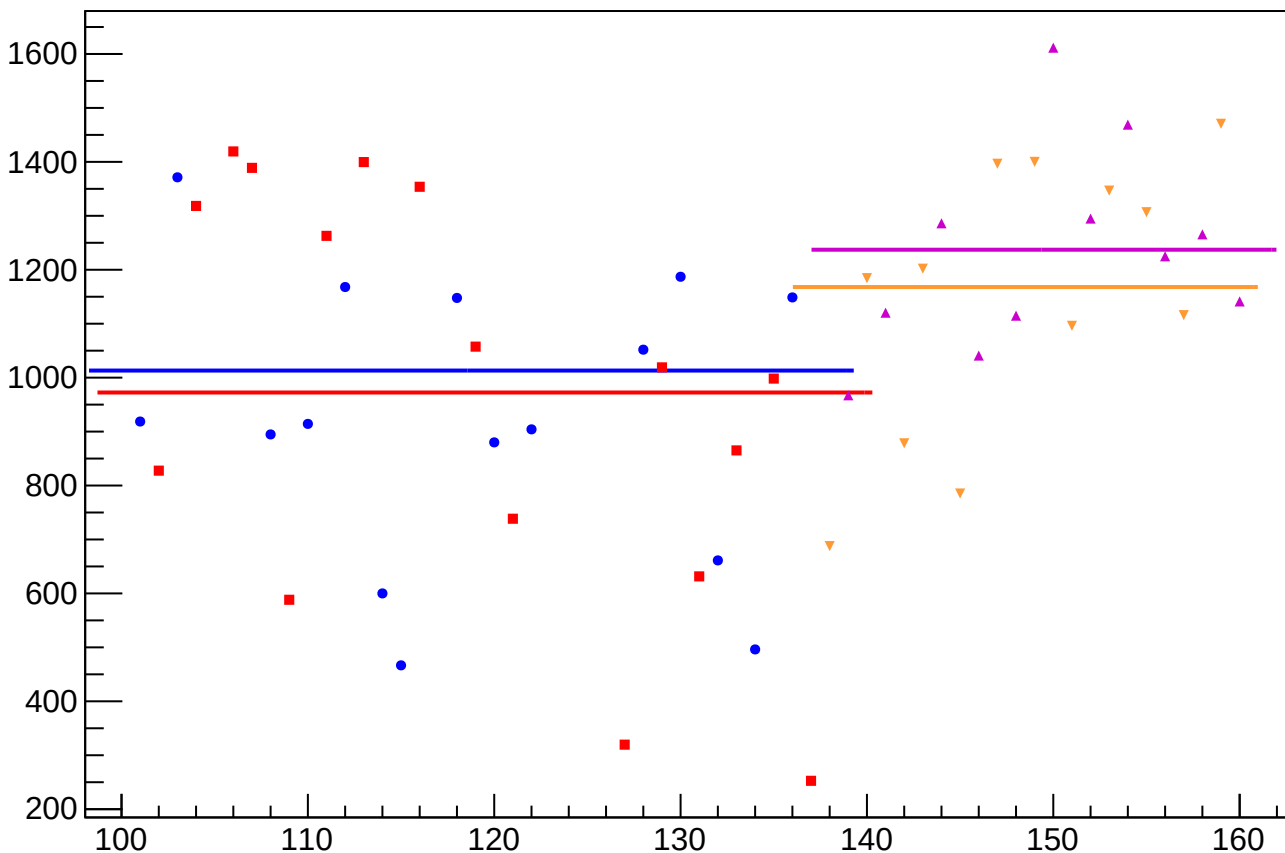
Left Out: 90.584 $\pm$ 0.000  $\chi^2$ /NDF: 300208511037372941883923935499649024.0/11

Right Out: 132.341 $\pm$ 0.000  $\chi^2$ /NDF: 3174087908796245287682359914282352640.0/15

Left In: 98.257 $\pm$ 0.000  $\chi^2$ /NDF: 6209937767730933933033369428470792192.0/10

All: 112.584 $\pm$ 0.000  $\chi^2$ /NDF: 101348411349

dit\_sam6\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

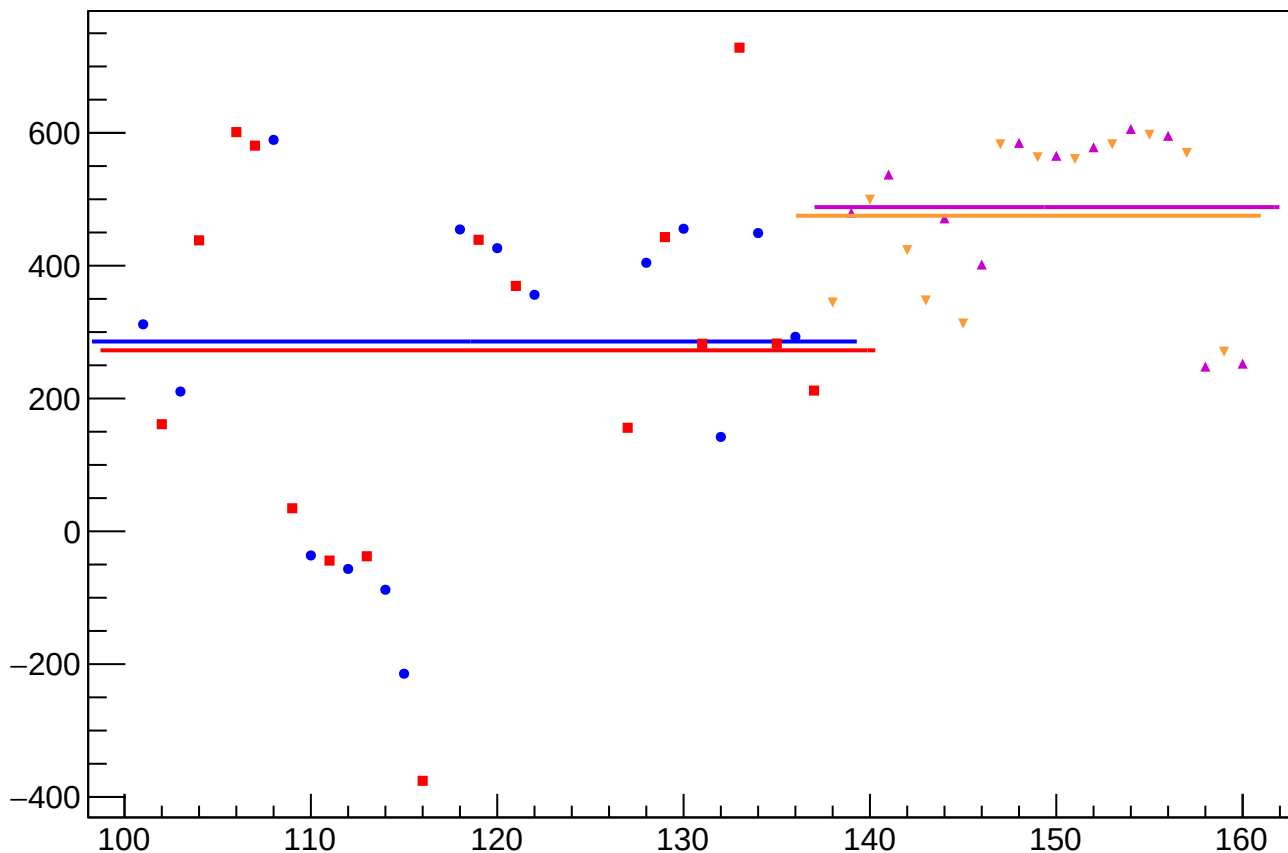
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_sam7\_coil6\_mean vs Slug



Right In: 285.856+/-0.000  $\chi^2/\text{NDF}$ : 24108244802355530064663311301086281728.0/14

Left Out: 475.235+/-0.000  $\chi^2/\text{NDF}$ : 13070818687465126874075480521523068928.0/11

Right Out: 272.539+/-0.000  $\chi^2/\text{NDF}$ : 44149952665075593650338713333575712768.0/15

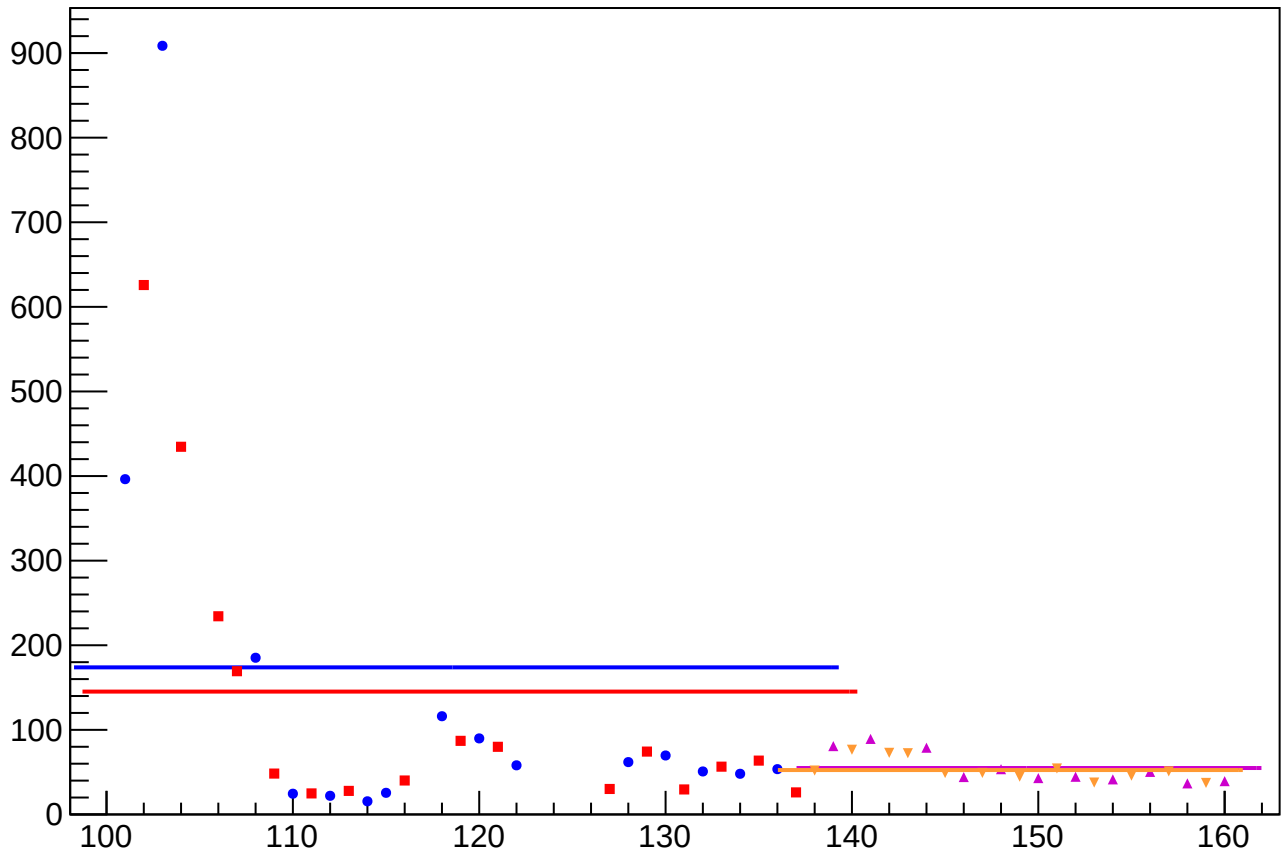
Left In: 488.203+/-0.000  $\chi^2/\text{NDF}$ : 13828831980358883653289432391973076992.0/10

+ sign 396.751+/-0.000  $\chi^2/\text{NDF}$ : 508087742294544

All: 397.274+/-0.000  $\chi^2/\text{NDF}$ : 12680558344

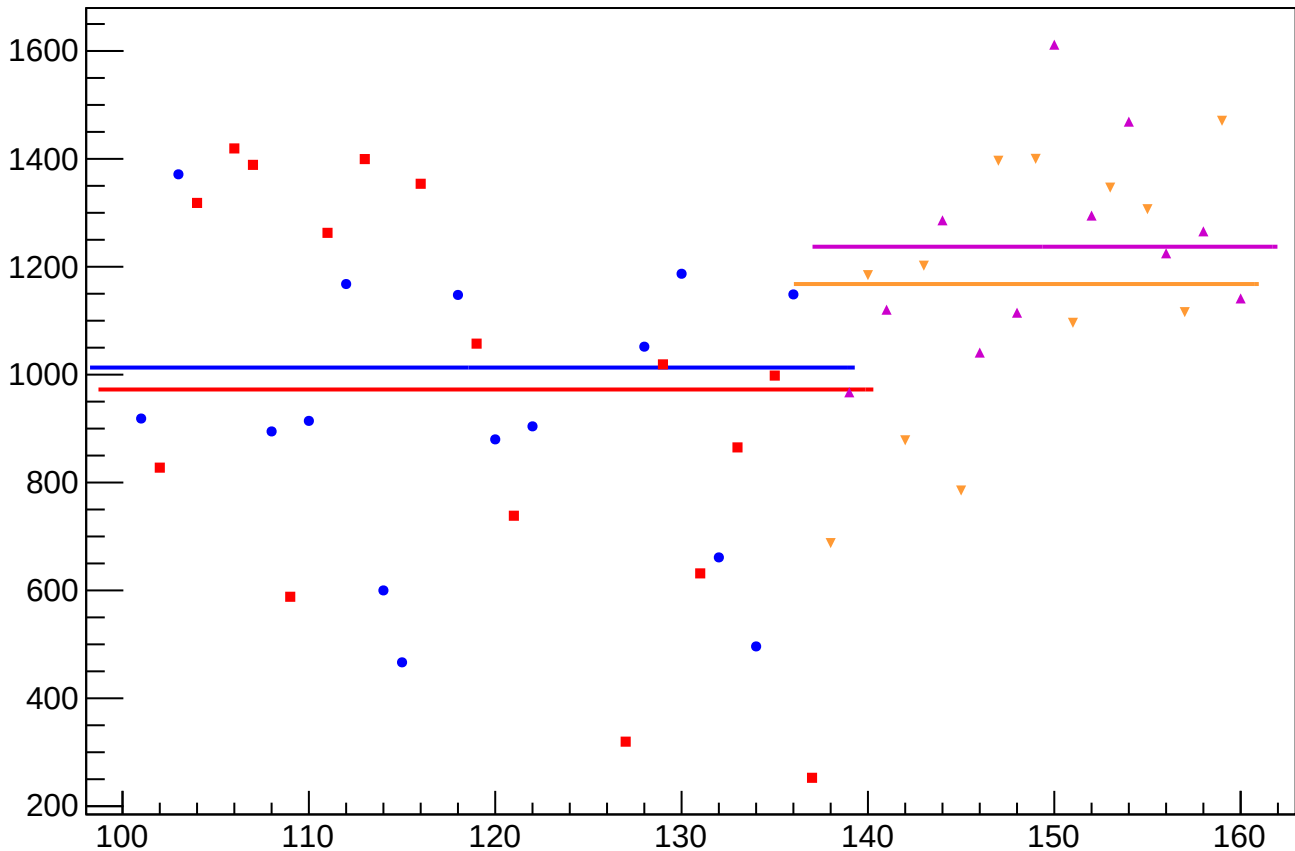
- sign 397.790+/-0.000  $\chi^2/\text{NDF}$ : 759959573910775

dit\_sam7\_coil6\_err\_mean vs Slug



Right In: 173.871+/-0.000  $\chi^2/\text{NDF}$ : 41705473404466232613073704554990665728.0/14  
 Left Out: 52.484+/-0.000  $\chi^2/\text{NDF}$ : 140982522312355375266483802671677440.0/11  
 Right Out: 145.228+/-0.000  $\chi^2/\text{NDF}$ : 22529615719408594720785265744437837824.0/15  
 Left In: 54.891+/-0.000  $\chi^2/\text{NDF}$ : 300358274506113612486338175884591104.0/10

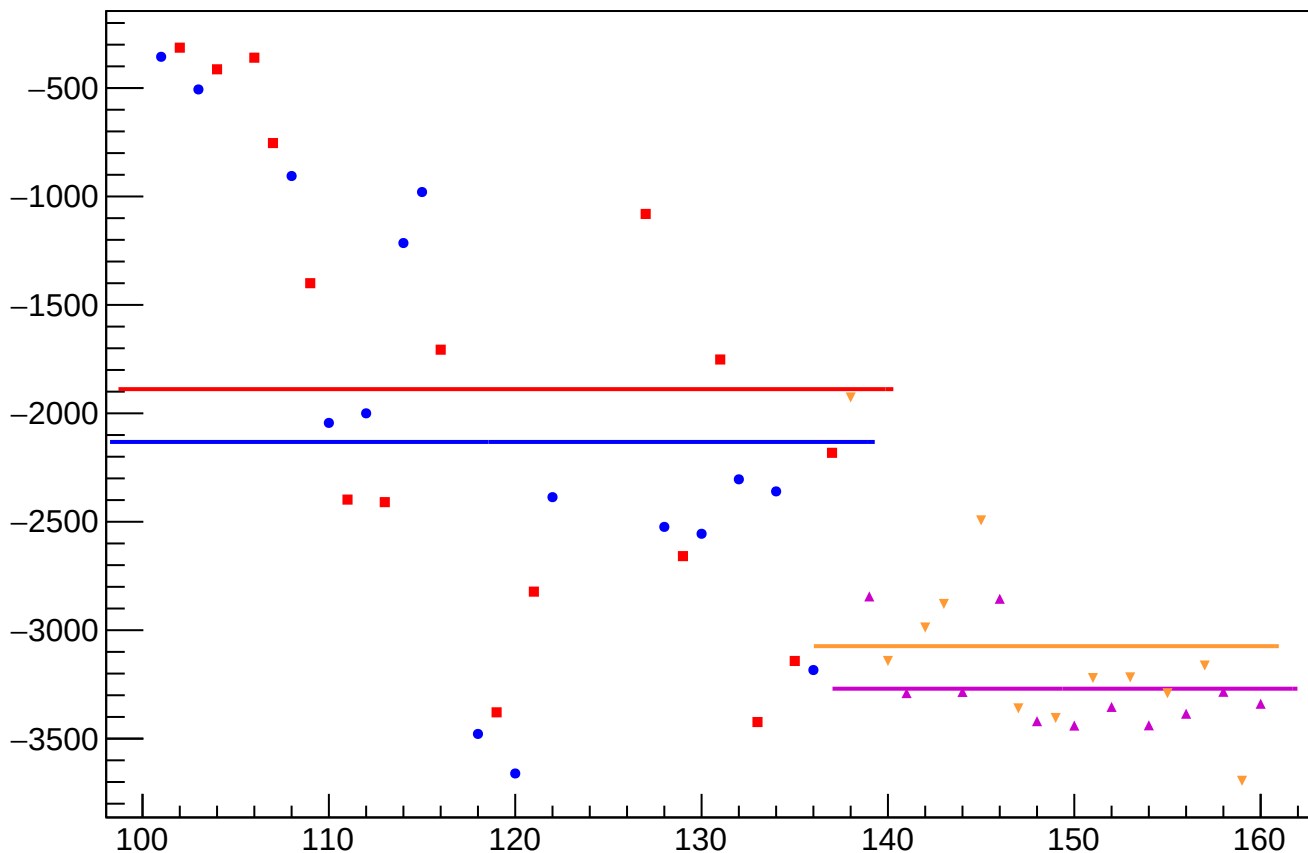
# dit\_sam7\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146 $\pm$ 0.000  $\chi^2$ /NDF: 31721270909522099205936100724856324096.0/14  
 Left Out: 1167.974 $\pm$ 0.000  $\chi^2$ /NDF: 54610138783870430946405205692756525056.0/11  
 Right Out: 972.465 $\pm$ 0.000  $\chi^2$ /NDF: 78884457200782655962756069915468234752.0/15  
 Left In: 1237.150 $\pm$ 0.000  $\chi^2$ /NDF: 30323445843993737164691986740223672320.0/10



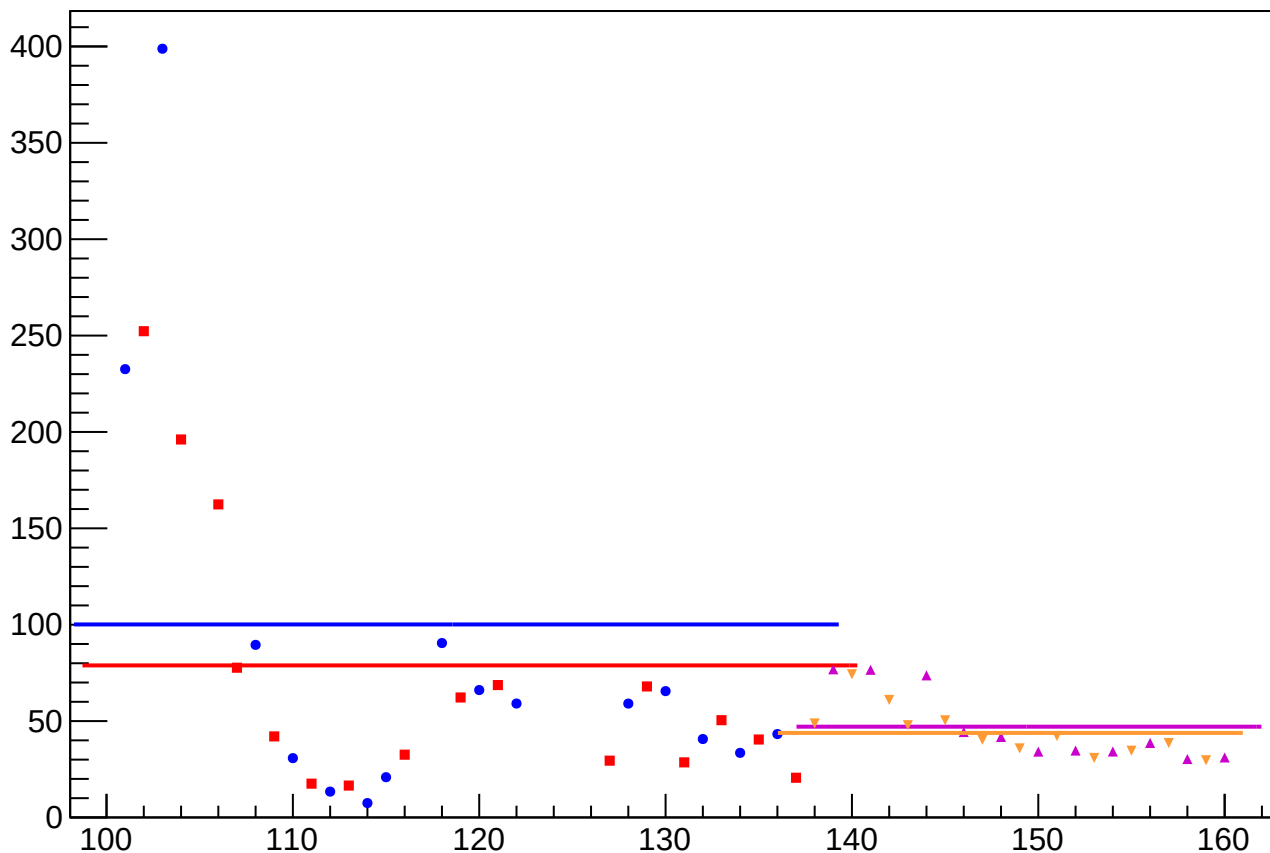
# dit\_sam8\_coil6\_mean vs Slug



|                              |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| Right In: -2131.905+/-0.000  | $\chi^2/\text{NDF}$ : 722433384570495071131450661983670501376.0/14 |
| Left Out: -3073.640+/-0.000  | $\chi^2/\text{NDF}$ : 187385582436852783779369611000994070528.0/11 |
| Right Out: -1888.448+/-0.000 | $\chi^2/\text{NDF}$ : 791986665551980691032719862611769819136.0/15 |
| Left In: -3269.755+/-0.000   | $\chi^2/\text{NDF}$ : 38098096180391062431092176239781216256.0/10  |

+ sign -2683.355+/-0.000  $\chi^2/\text{NDF}$ : 1246857732983  
 All: -2687.039+/-0.000  $\chi^2/\text{NDF}$ : 2816093255  
 - sign -2690.665+/-0.000  $\chi^2/\text{NDF}$ : 15691933486268

# dit\_sam8\_coil6\_err\_mean vs Slug



Right In: 100.135+/-0.000  $\chi^2/\text{NDF}$ : 7813910768784473081480373577053110272.0/14

Left Out: 43.850+/-0.000  $\chi^2/\text{NDF}$ : 141916966921802590982612264966684672.0/11

Right Out: 78.881+/-0.000  $\chi^2/\text{NDF}$ : 3525129078433901202304301512966275072.0/15

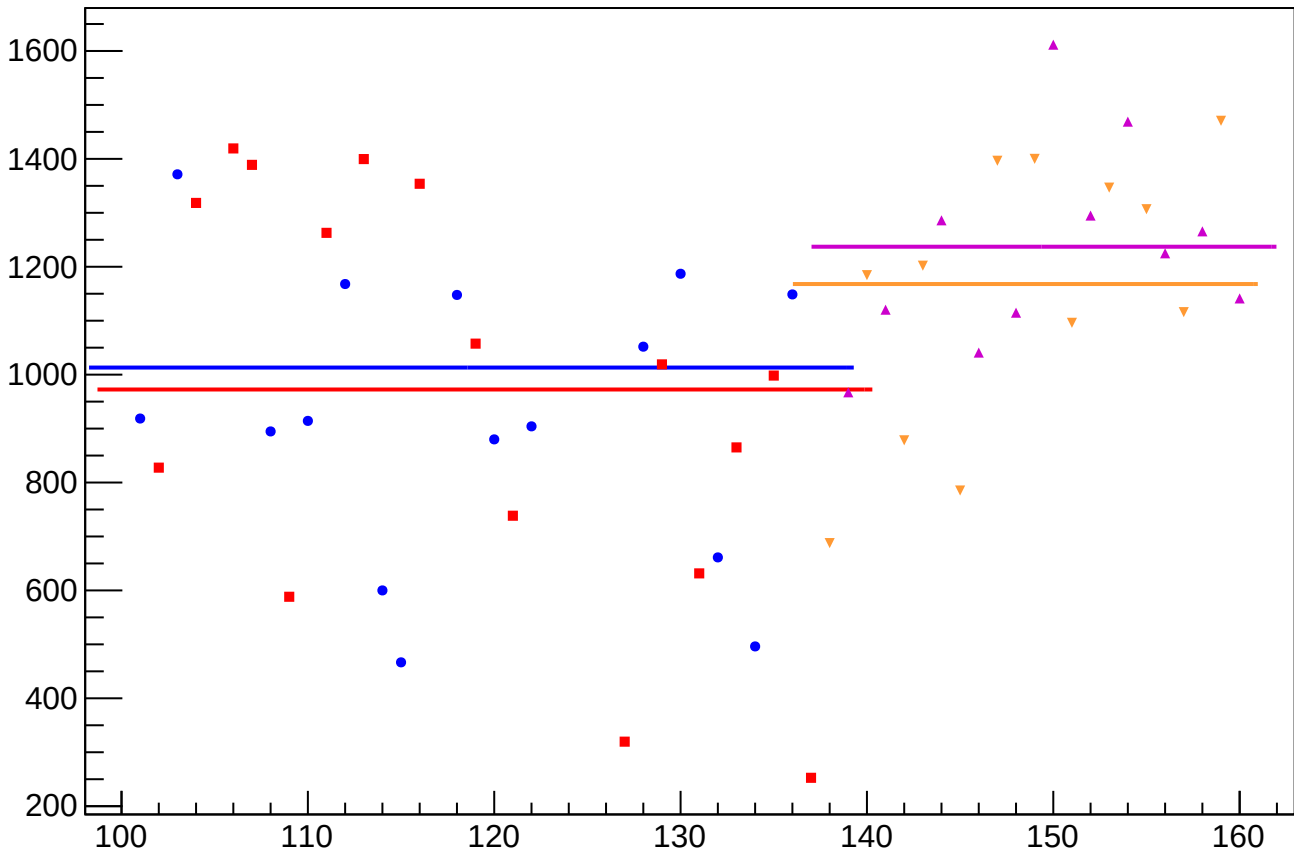
Left In: 47.092+/-0.000  $\chi^2/\text{NDF}$ : 302550156086866534805447117402800128.0/10

+ sign 67.177+/-0.000  $\chi^2/\text{NDF}$ : 9159773877688145

All: 63.771+/-0.000  $\chi^2/\text{NDF}$ : 1341493564216

- sign 60.419+/-0.000  $\chi^2/\text{NDF}$ : 4219125097072467

dit\_sam8\_coil6\_Ndata\_mean vs Slug



Right In: 1013.146+/-0.000  $\chi^2/\text{NDF}$ : 31721270909522099205936100724856324096.0/14

Left Out: 1167.974+/-0.000  $\chi^2/\text{NDF}$ : 54610138783870430946405205692756525056.0/11

Right Out: 972.465+/-0.000  $\chi^2/\text{NDF}$ : 78884457200782655962756069915468234752.0/15

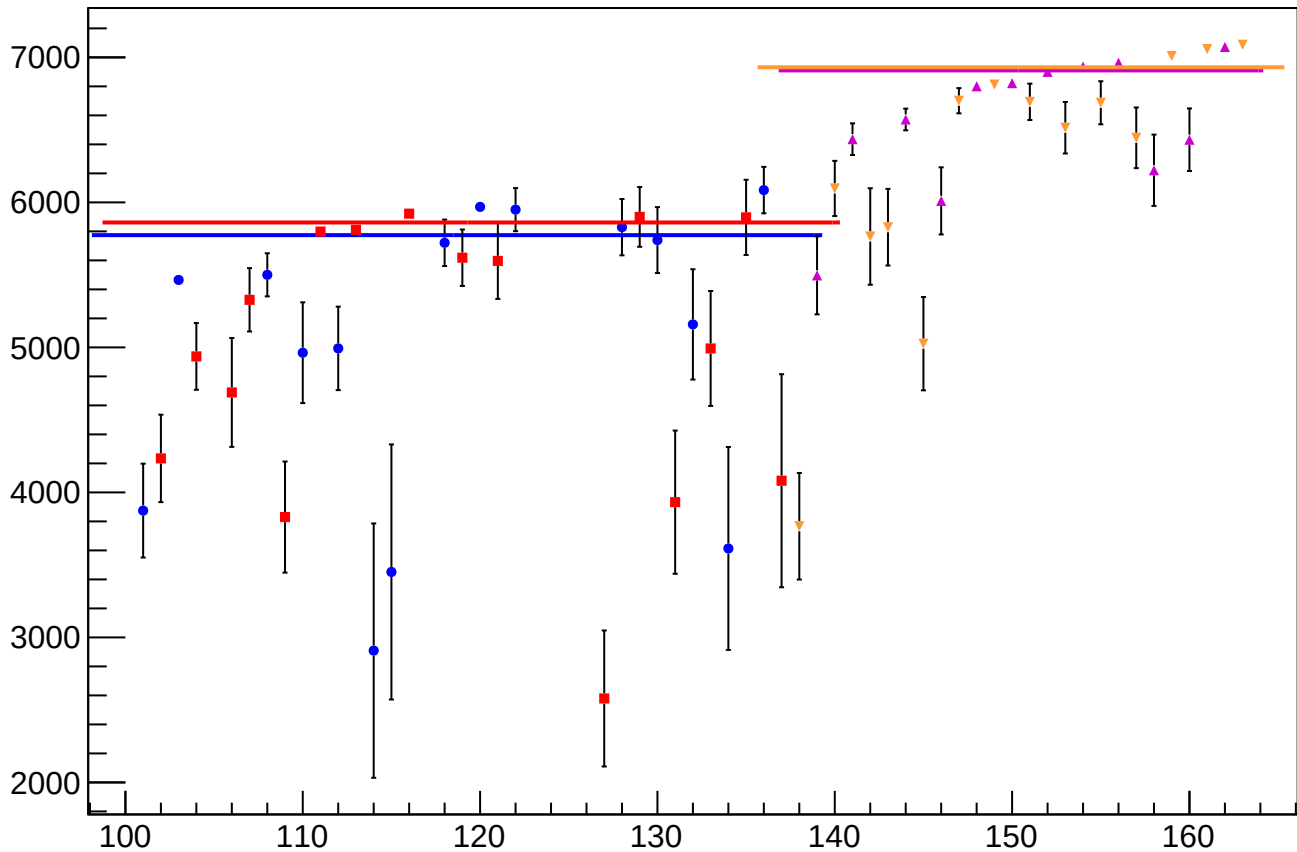
Left In: 1237.150+/-0.000  $\chi^2/\text{NDF}$ : 30323445843993737164691986740223672320.0/10

+ sign 1103.808+/-0.000  $\chi^2/\text{NDF}$ : 95441405756272

All: 1115.086+/-0.000  $\chi^2/\text{NDF}$ : 23218314916

- sign 1126.185+/-0.000  $\chi^2/\text{NDF}$ : 13634656733460

# dit\_run\_mean vs Slug



Right In: 5774.117 $\pm$ 0.181  $\chi^2$ /NDF: 1828526.5/14

Left Out: 6931.710 $\pm$ 0.213  $\chi^2$ /NDF: 291010.9/13

Right Out: 5861.461 $\pm$ 0.140  $\chi^2$ /NDF: 180020.4/15

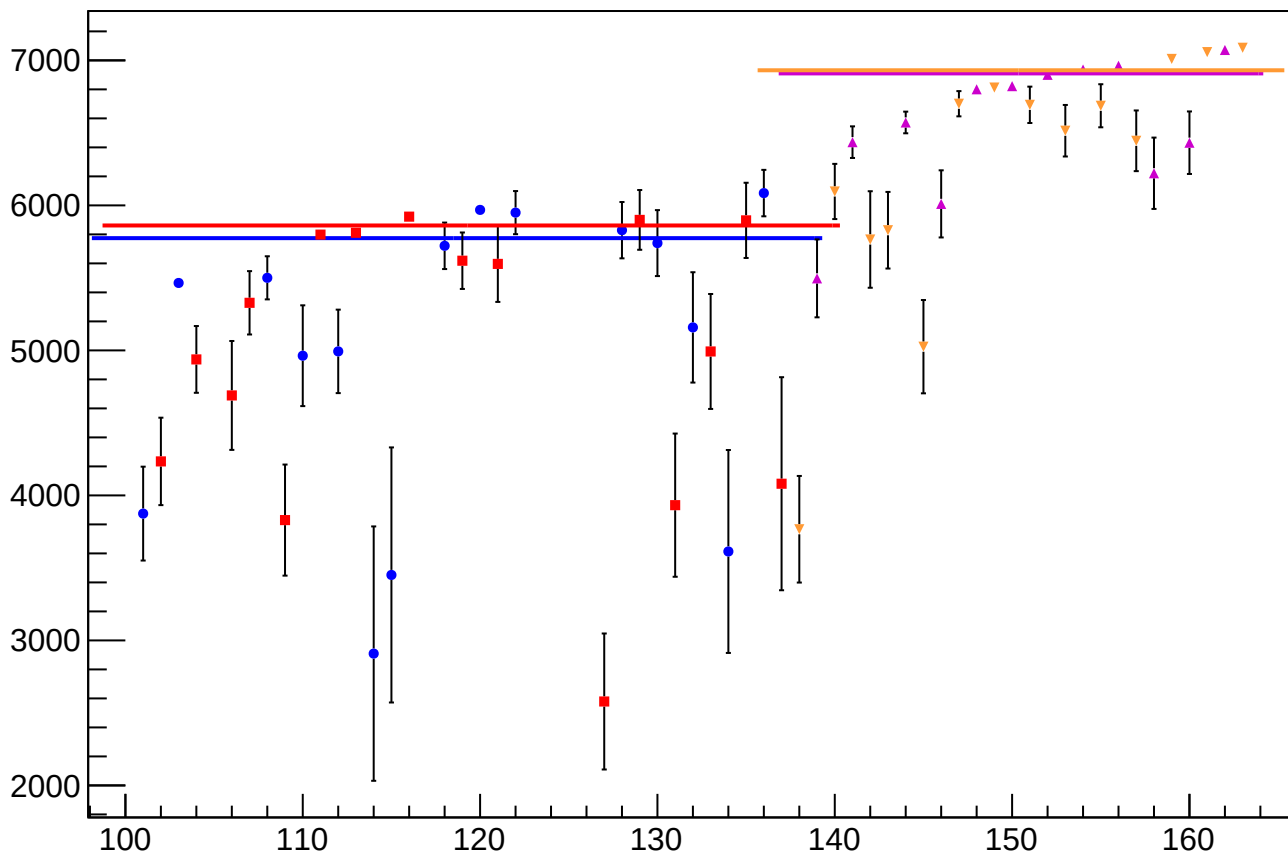
Left In: 6910.138 $\pm$ 0.157  $\chi^2$ /NDF: 364935.4/11

+ sign 6260.849 $\pm$ 0.138  $\chi^2$ /NDF: 19231708.9/28

All: 6300.244 $\pm$ 0.083  $\chi^2$ /NDF: 44736728.3/5

- sign 6322.771 $\pm$ 0.104  $\chi^2$ /NDF: 25377180.7/27

# dit\_run\_rms vs Slug



Right In: 5774.117 $\pm$ 0.181  $\chi^2$ /NDF: 1828526.5/14

Left Out: 6931.710 $\pm$ 0.213  $\chi^2$ /NDF: 291010.9/13

Right Out: 5861.461 $\pm$ 0.140  $\chi^2$ /NDF: 180020.4/15

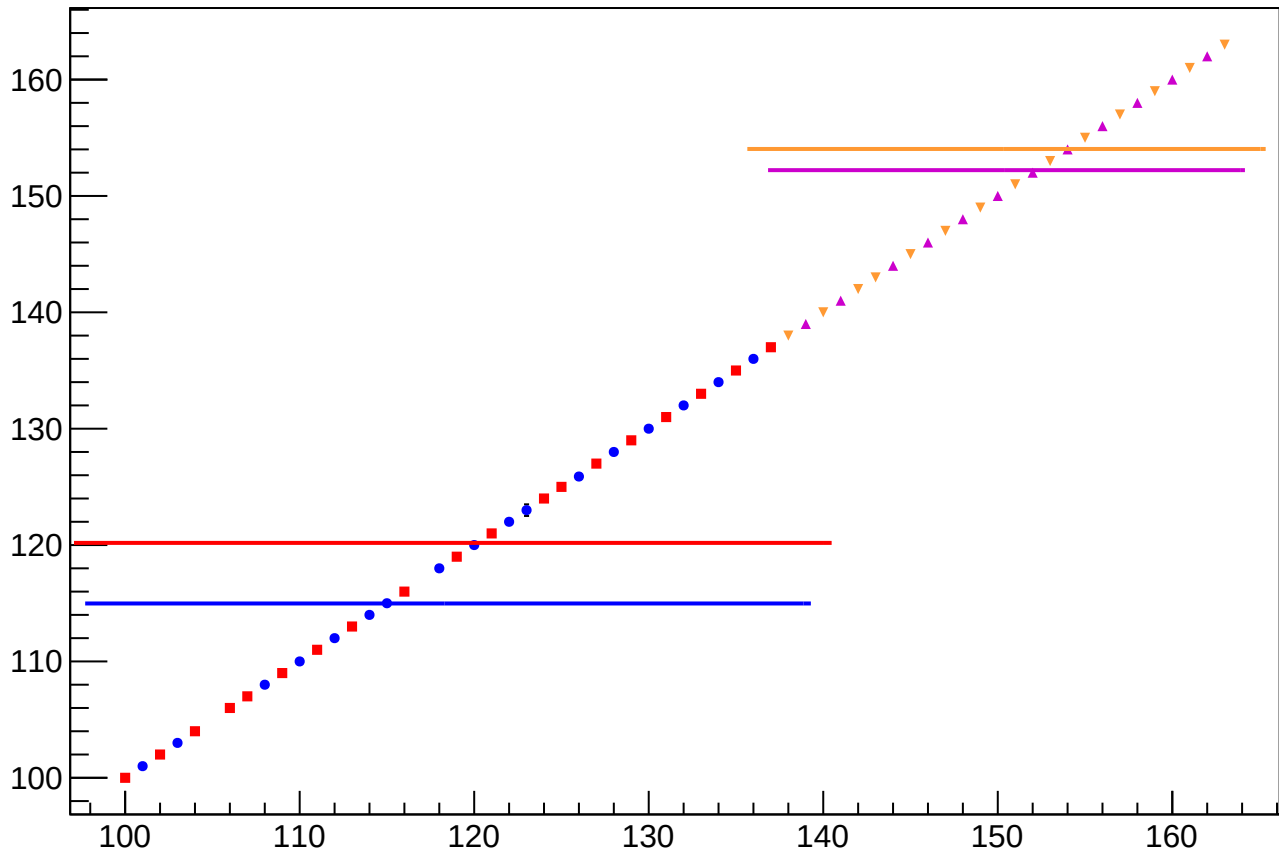
Left In: 6910.138 $\pm$ 0.157  $\chi^2$ /NDF: 364935.4/11

+ sign 6260.849 $\pm$ 0.138  $\chi^2$ /NDF: 19231708.9/28

All: 6300.244 $\pm$ 0.083  $\chi^2$ /NDF: 44736728.3/5

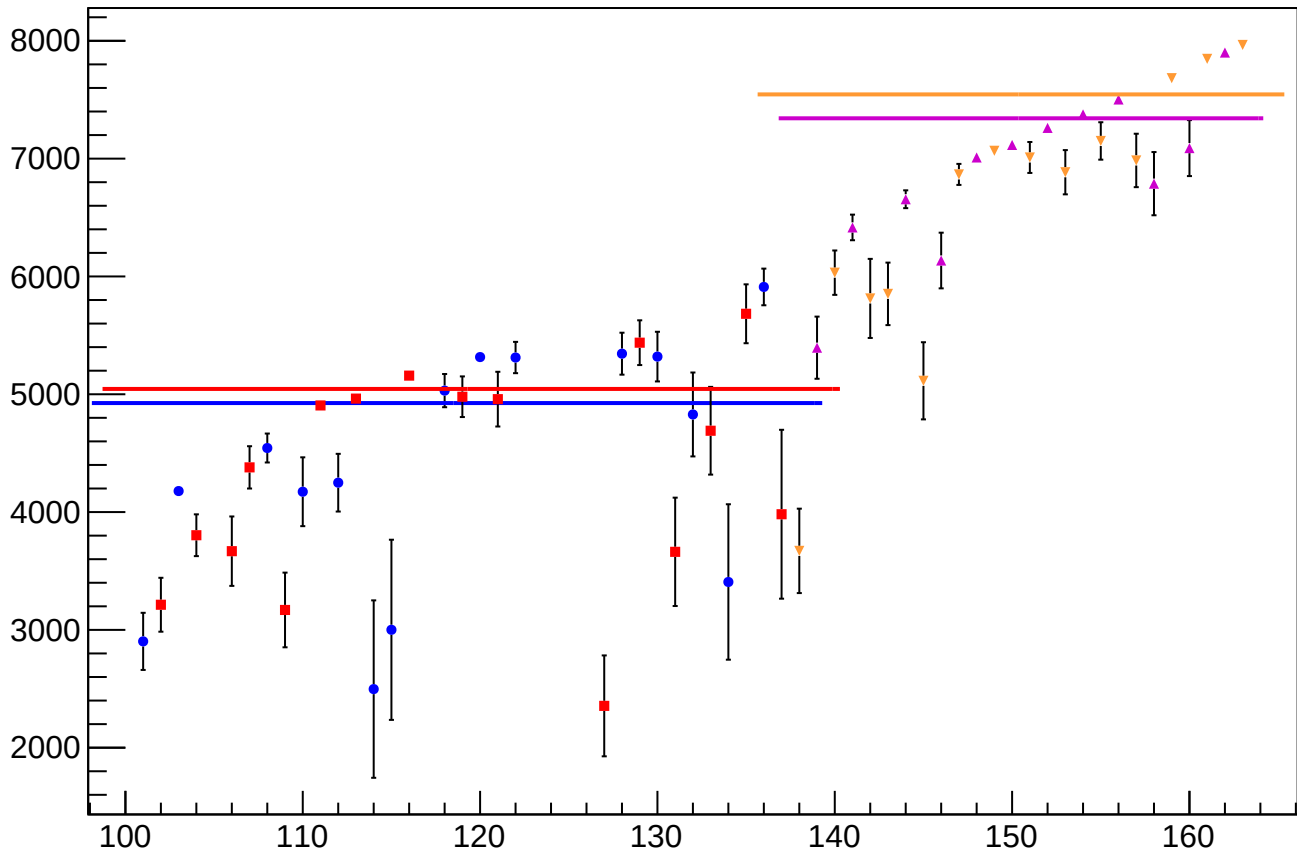
- sign 6322.771 $\pm$ 0.104  $\chi^2$ /NDF: 25377180.7/27

# dit\_slug\_slope vs Slug



Right In: 114.980+/-0.000  $\chi^2/\text{NDF}$ : 112344936246012934714934440230912.0/16  
 Left Out: 154.037+/-0.000  $\chi^2/\text{NDF}$ : 39578585063739809170711270916096.0/13  
 Right Out: 120.186+/-0.000  $\chi^2/\text{NDF}$ : 52233253644261695528198041763840.0/18  
 Left In: 152.217+/-0.000  $\chi^2/\text{NDF}$ : 13131625643598975517651864911872.0/11

# dit\_cyclenum\_mean vs Slug



Right In: 4925.305+/-0.939  $\chi^2/\text{NDF}$ : 330994.6/14

Left Out: 7545.234+/-0.861  $\chi^2/\text{NDF}$ :171351.5/13

Right Out: 5045.221+/-0.668  $\chi^2/\text{NDF}$ : 30179.9/15

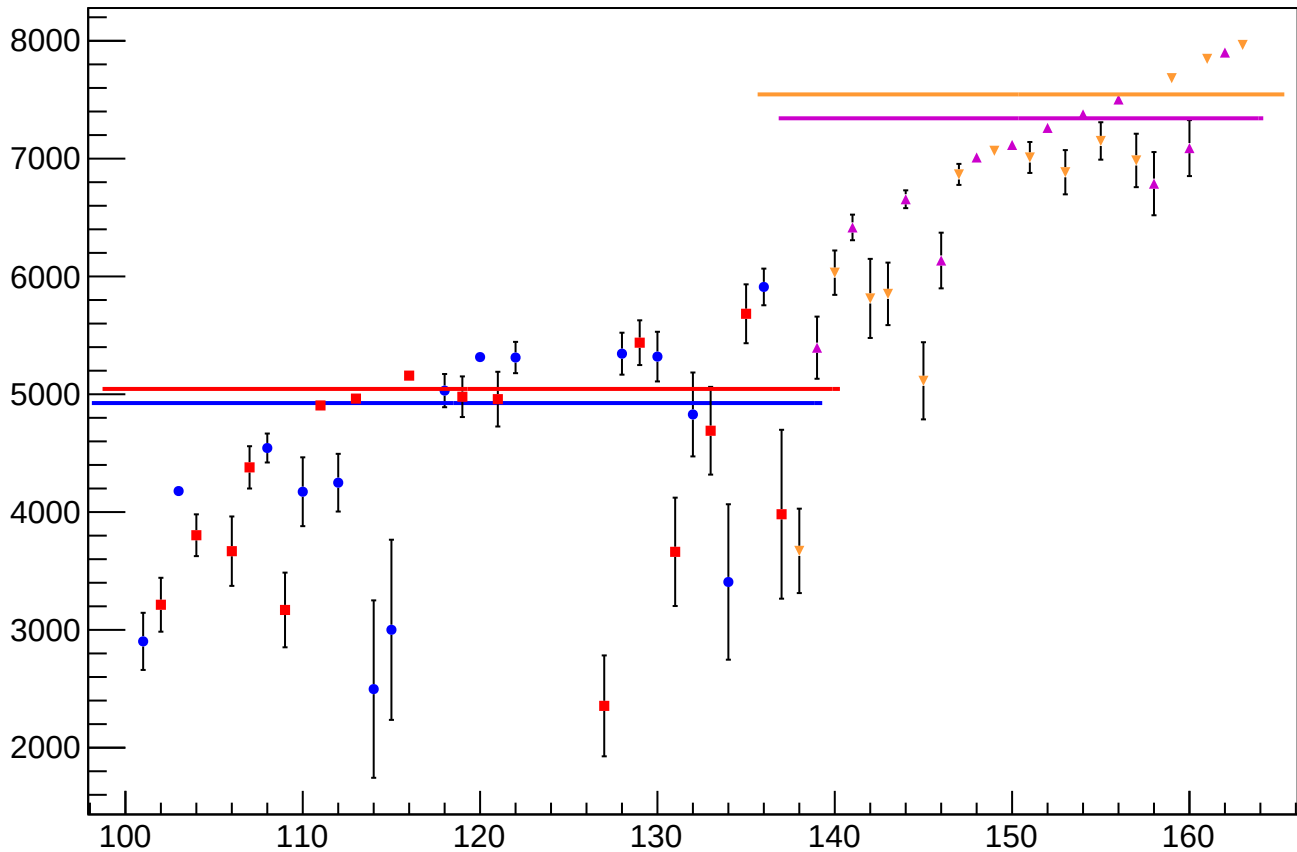
Left In: 7342.371+/-0.709  $\chi^2/\text{NDF}$ :154110.8/11

+ sign 6348.012+/-0.635  $\chi^2/\text{NDF}$ : 4732461.6/28

All: 6207.485+/-0.386  $\chi^2/\text{NDF}$ : 10555912.8/5

- sign 6124.995+/-0.486  $\chi^2/\text{NDF}$ : 5745619.1/27

# dit\_cyclenum\_rms vs Slug



Right In: 4925.305 $\pm$ 0.939  $\chi^2$ /NDF: 330994.6/14

Left Out: 7545.234 $\pm$ 0.861  $\chi^2$ /NDF:171351.5/13

Right Out: 5045.221 $\pm$ 0.668  $\chi^2$ /NDF: 30179.9/15

Left In: 7342.371 $\pm$ 0.709  $\chi^2$ /NDF:154110.8/11

+ sign 6348.012 $\pm$ 0.635  $\chi^2$ /NDF: 4732461.6/28

All: 6207.485 $\pm$ 0.386  $\chi^2$ /NDF: 10555912.8/5

- sign 6124.995 $\pm$ 0.486  $\chi^2$ /NDF: 5745619.1/27



# dit\_scandata1\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

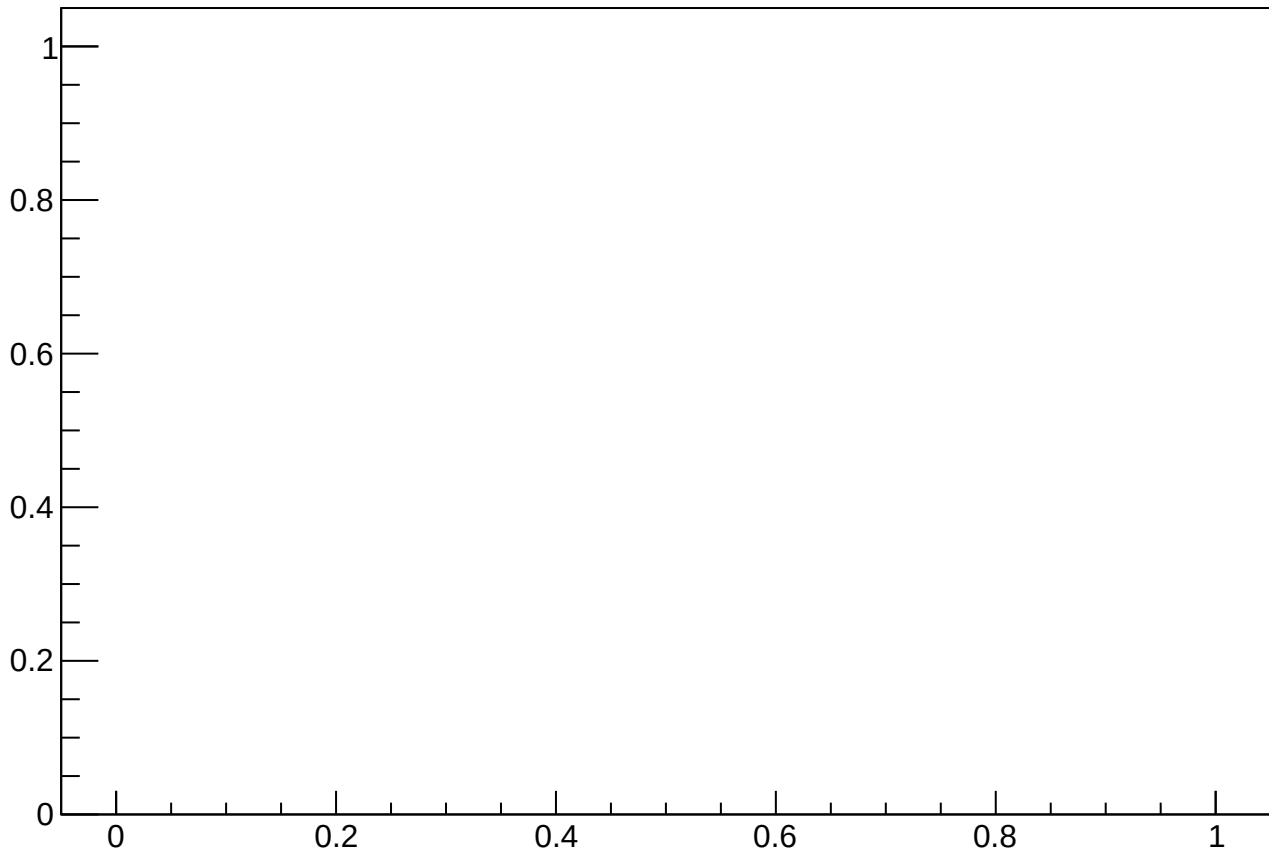
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata1\_rms vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

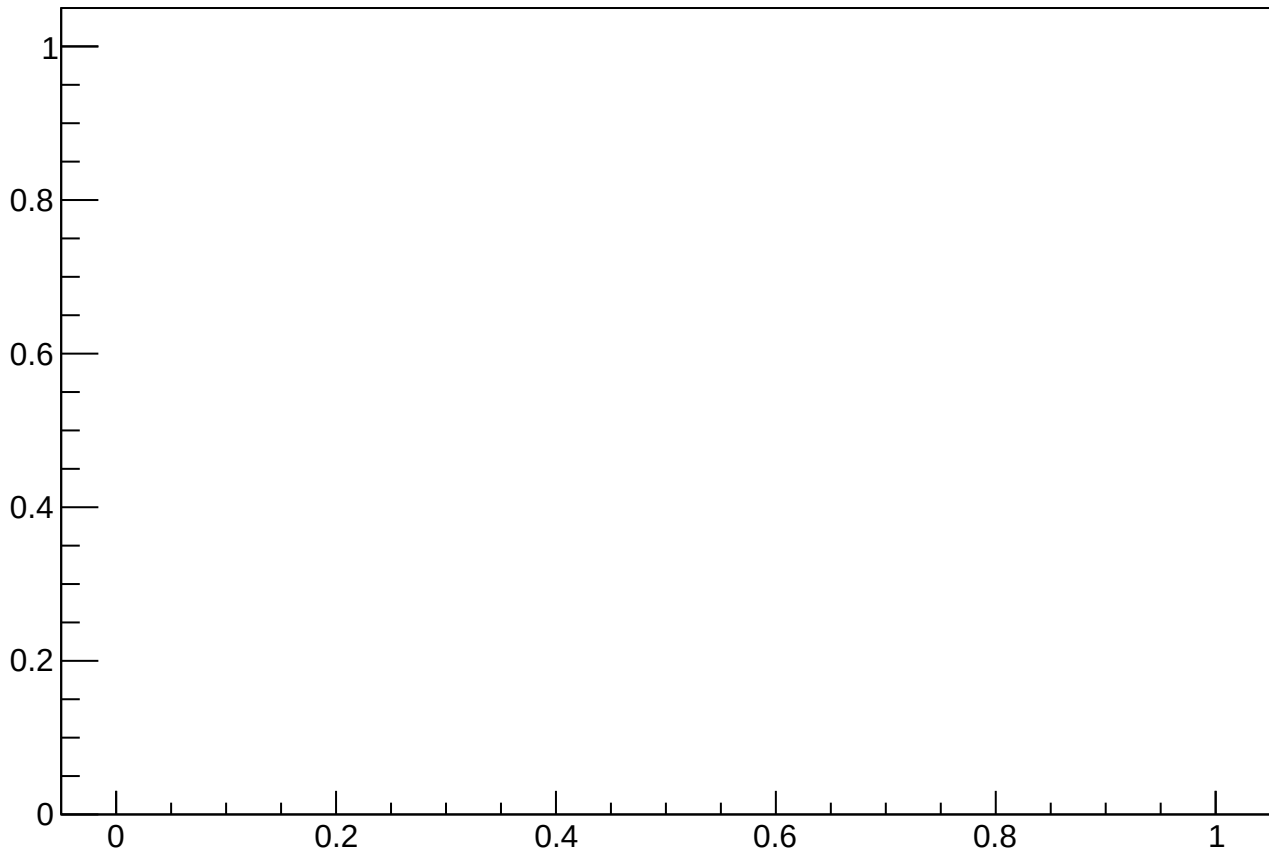
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata2\_mean vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# dit\_scandata2\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

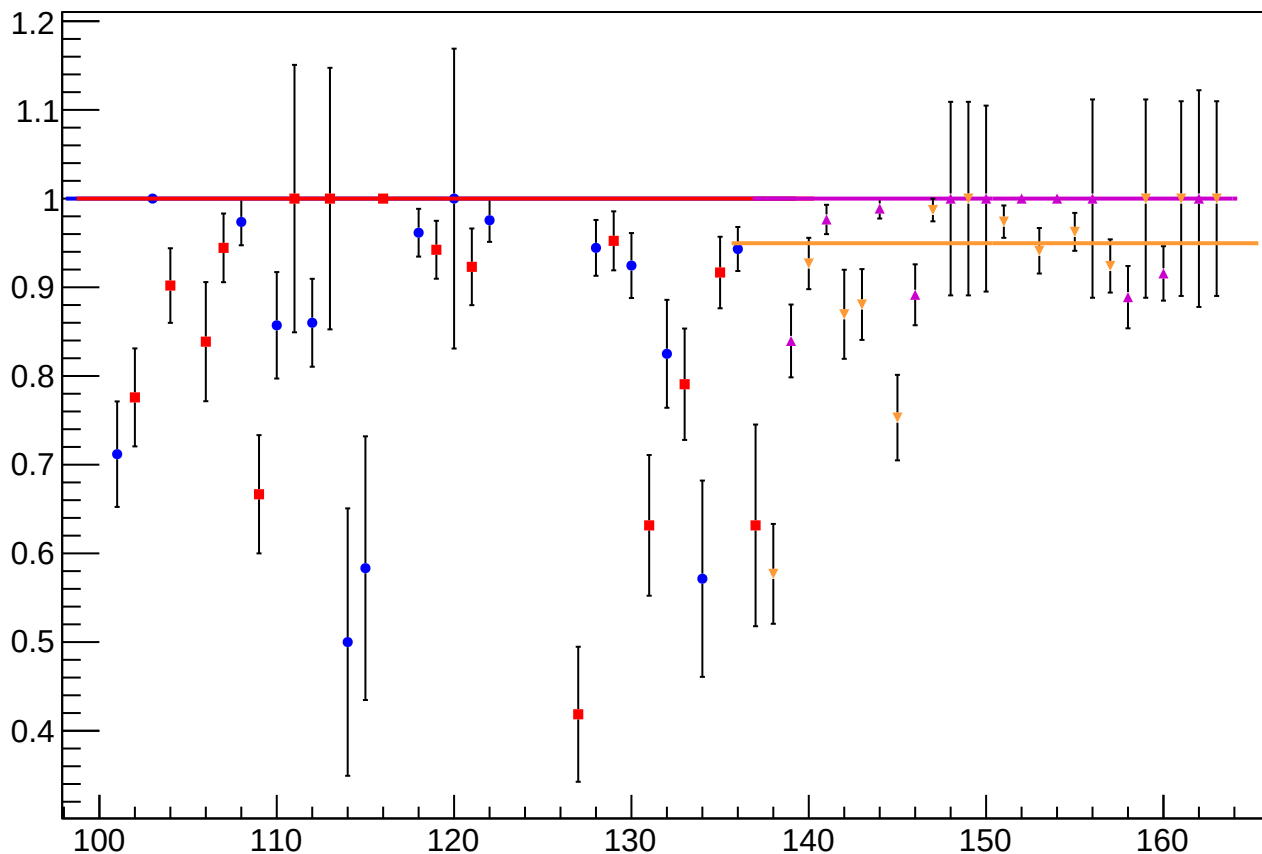
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_flag\_mean vs Slug



Right In: 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 95.9/14

Left Out: 0.950 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 79.0/13

Right Out: 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 168.9/15

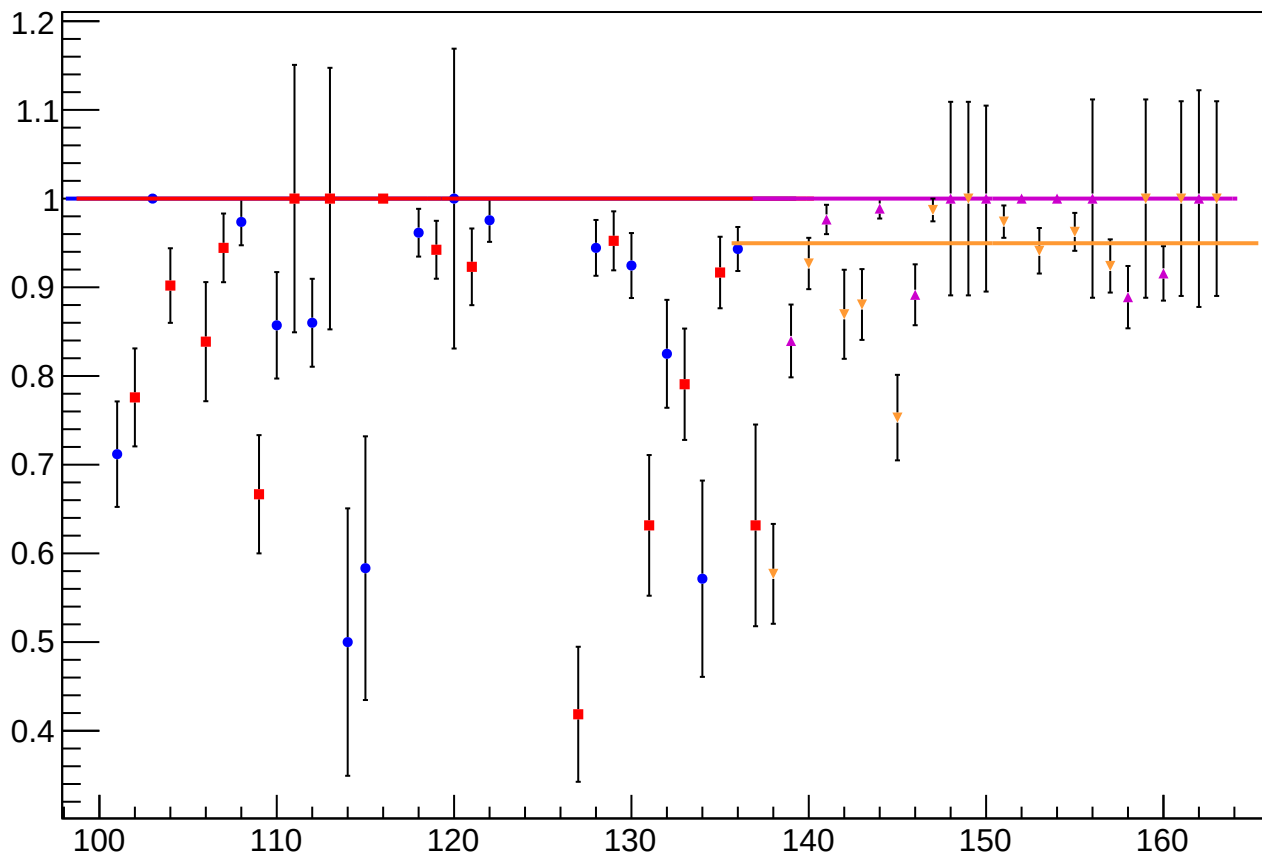
Left In: 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 389.8/11

+ sign 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 218.4/28

All: 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 777.2/56

- sign 1.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 558.7/27

# dit\_flag\_rms vs Slug



Right In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 95.9/14

Left Out:  $0.950 \pm 0.008$   $\chi^2/\text{NDF}$ : 79.0/13

Right Out:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 168.9/15

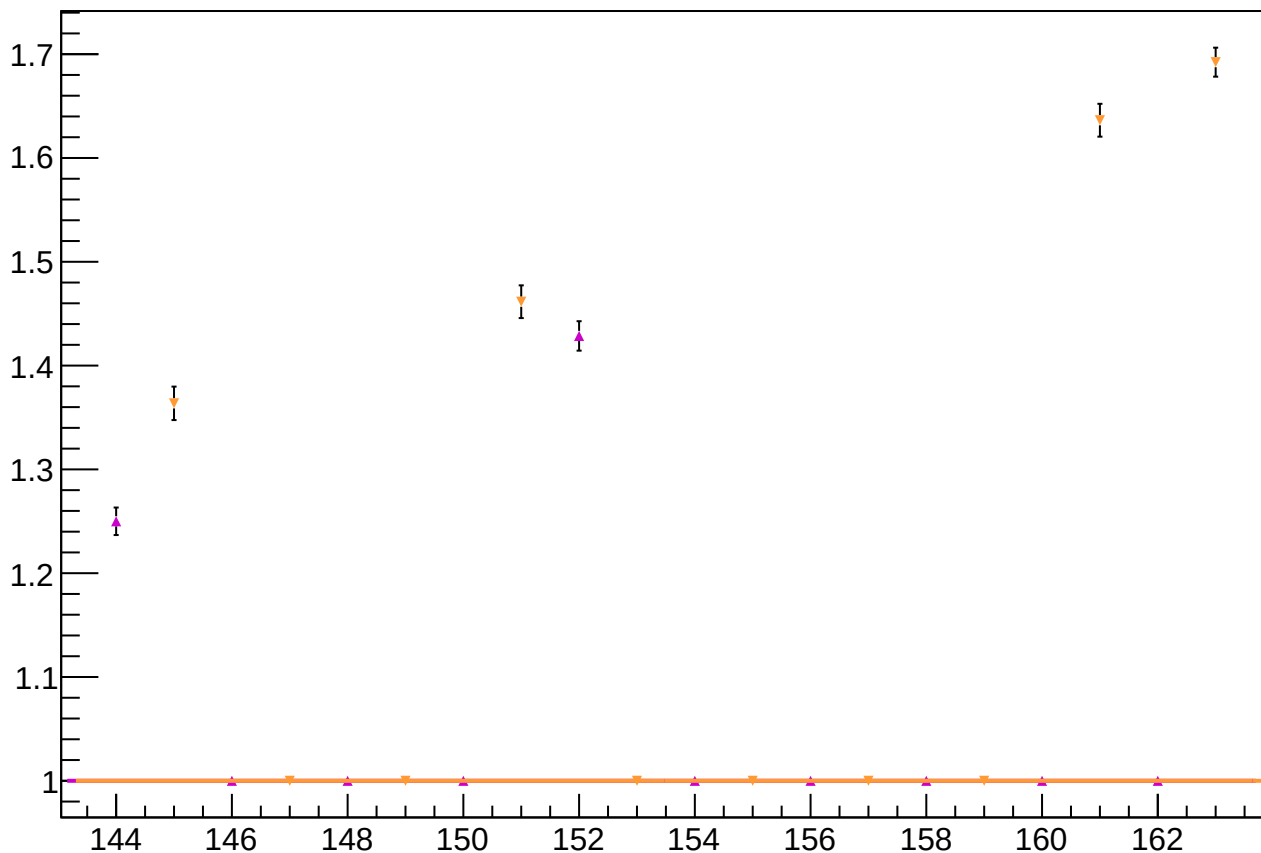
Left In:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 389.8/11

+ sign  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 218.4/28

All:  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 777.2/56

- sign  $1.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 558.7/27

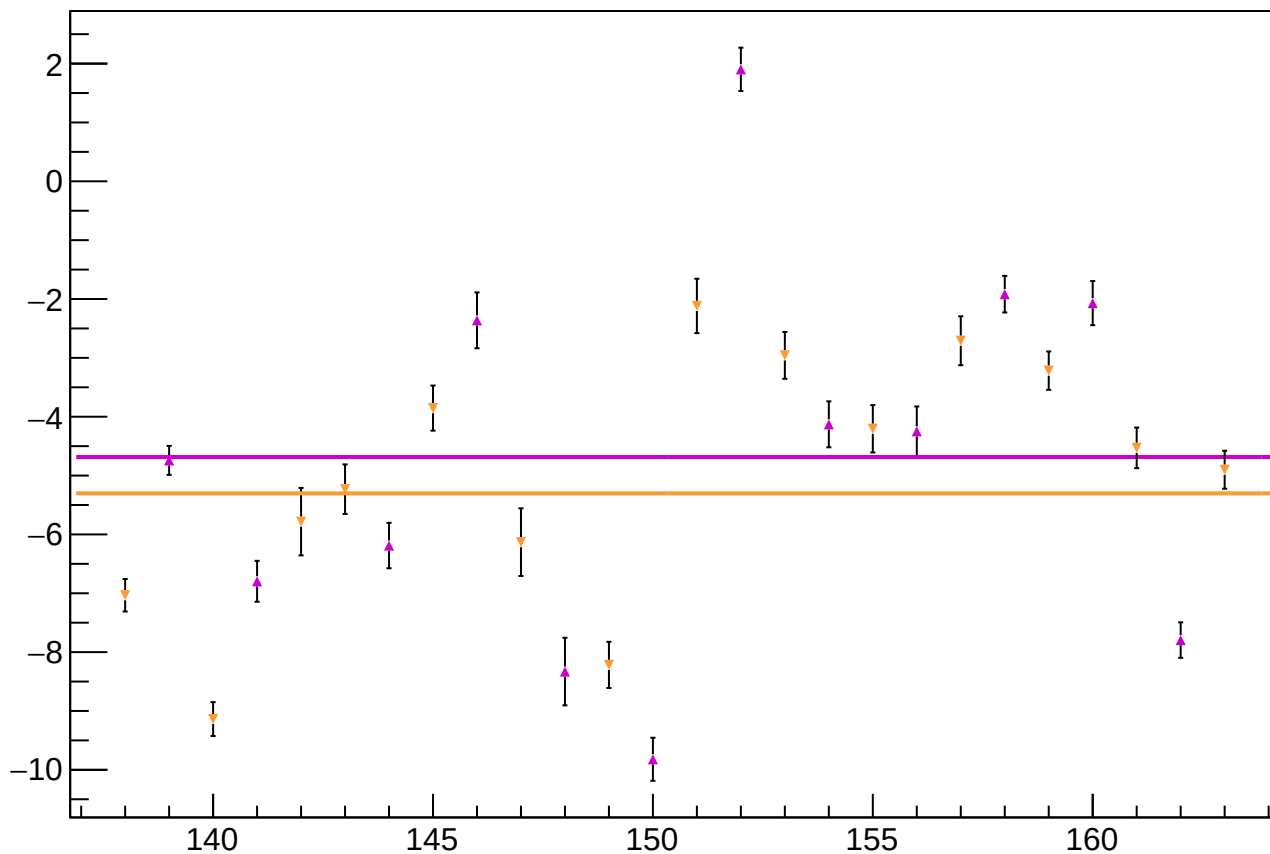
# dit\_segment\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 6735.5/9  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 1930.5/9

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 1.000+/-0.000  $\chi^2/\text{NDF}$ : 7858.6/19  
- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug

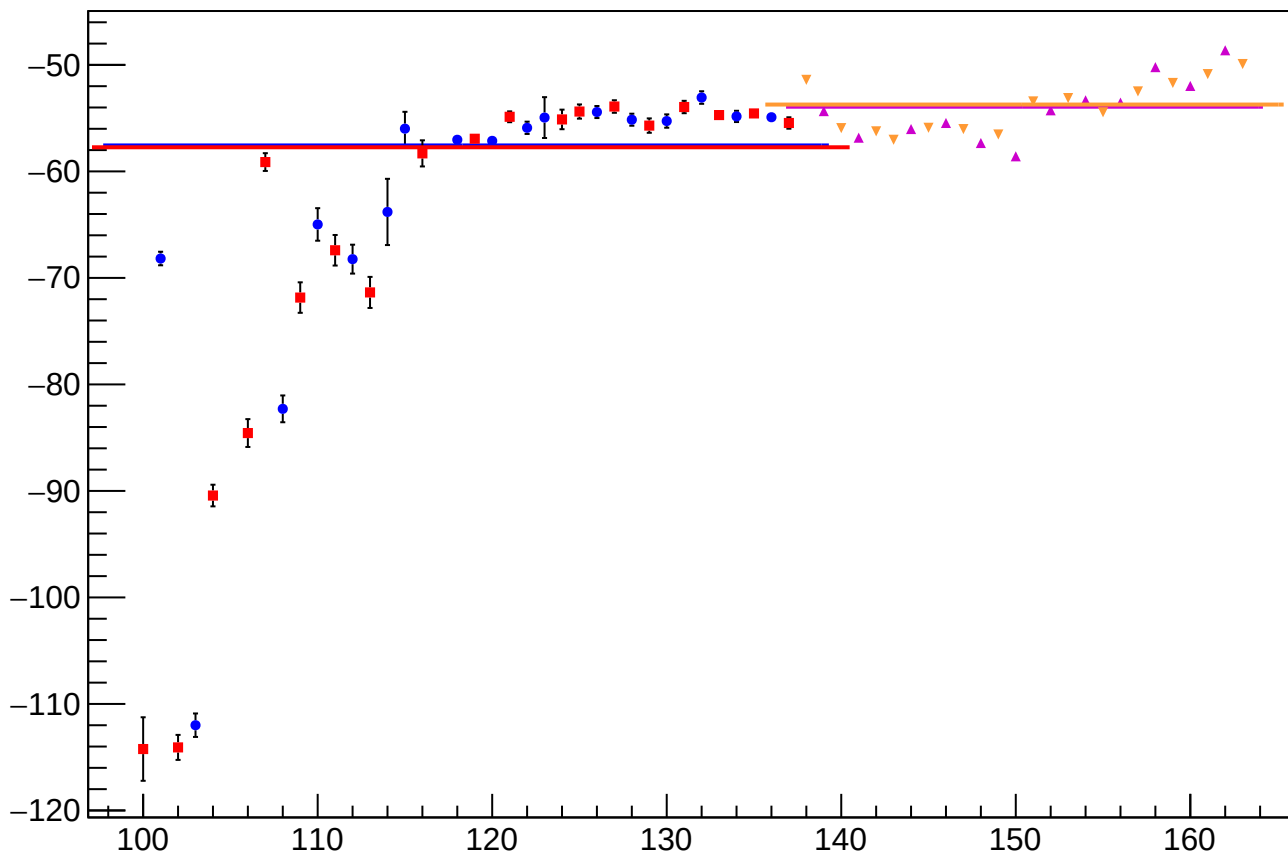


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -5.302+/-0.100  $\chi^2/\text{NDF}$ : 464.9/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.684+/-0.103  $\chi^2/\text{NDF}$ : 870.7/11

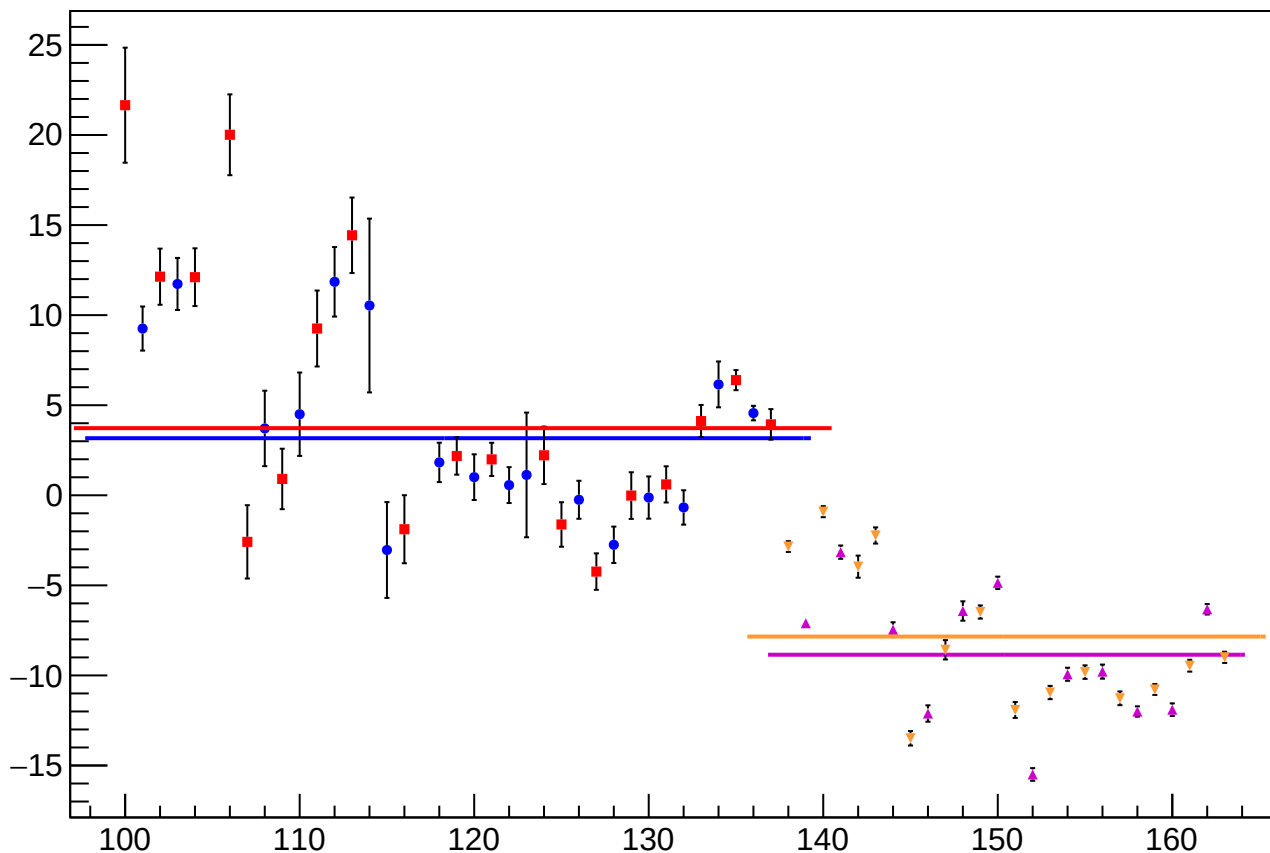
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.003+/-0.072  $\chi^2/\text{NDF}$ : 1354.2/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug



# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug



Right In:  $3.168 \pm 0.258$   $\chi^2/\text{NDF}$ : 186.2/16

Left Out:  $-7.842 \pm 0.098$   $\chi^2/\text{NDF}$ : 1590.5/13

Right Out:  $3.726 \pm 0.267$   $\chi^2/\text{NDF}$ : 323.3/18

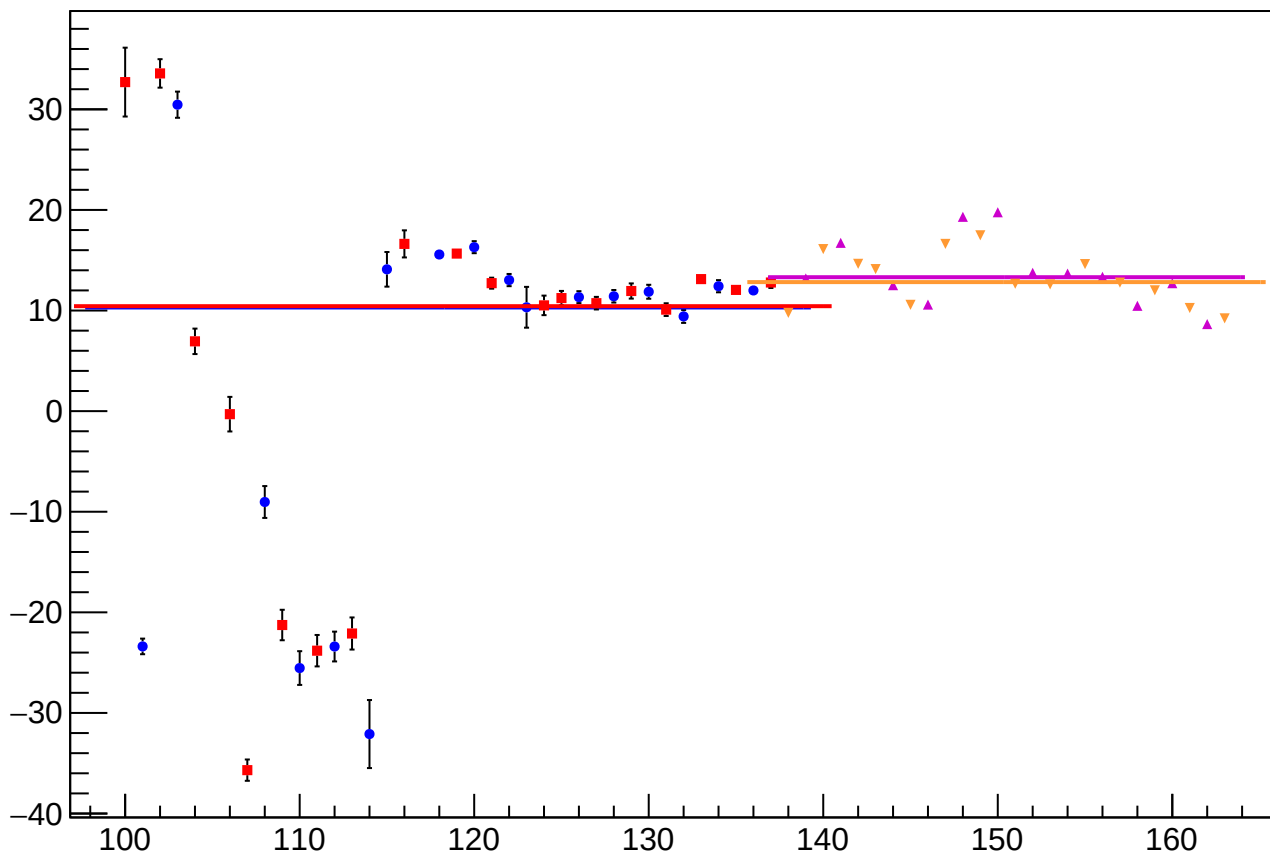
Left In:  $-8.851 \pm 0.101$   $\chi^2/\text{NDF}$ : 1142.0/11

+ sign  $-6.441 \pm 0.092$   $\chi^2/\text{NDF}$ : 3369.4/30

All:  $-6.852 \pm 0.066$   $\chi^2/\text{NDF}$ : 6816.9/61

- sign  $-7.284 \pm 0.094$   $\chi^2/\text{NDF}$ : 3406.4/30

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug



Right In: 10.306 $\pm$ 0.157  $\chi^2$ /NDF: 3712.3/16

Left Out: 12.827 $\pm$ 0.084  $\chi^2$ /NDF: 939.1/13

Right Out: 10.433 $\pm$ 0.160  $\chi^2$ /NDF: 3828.5/18

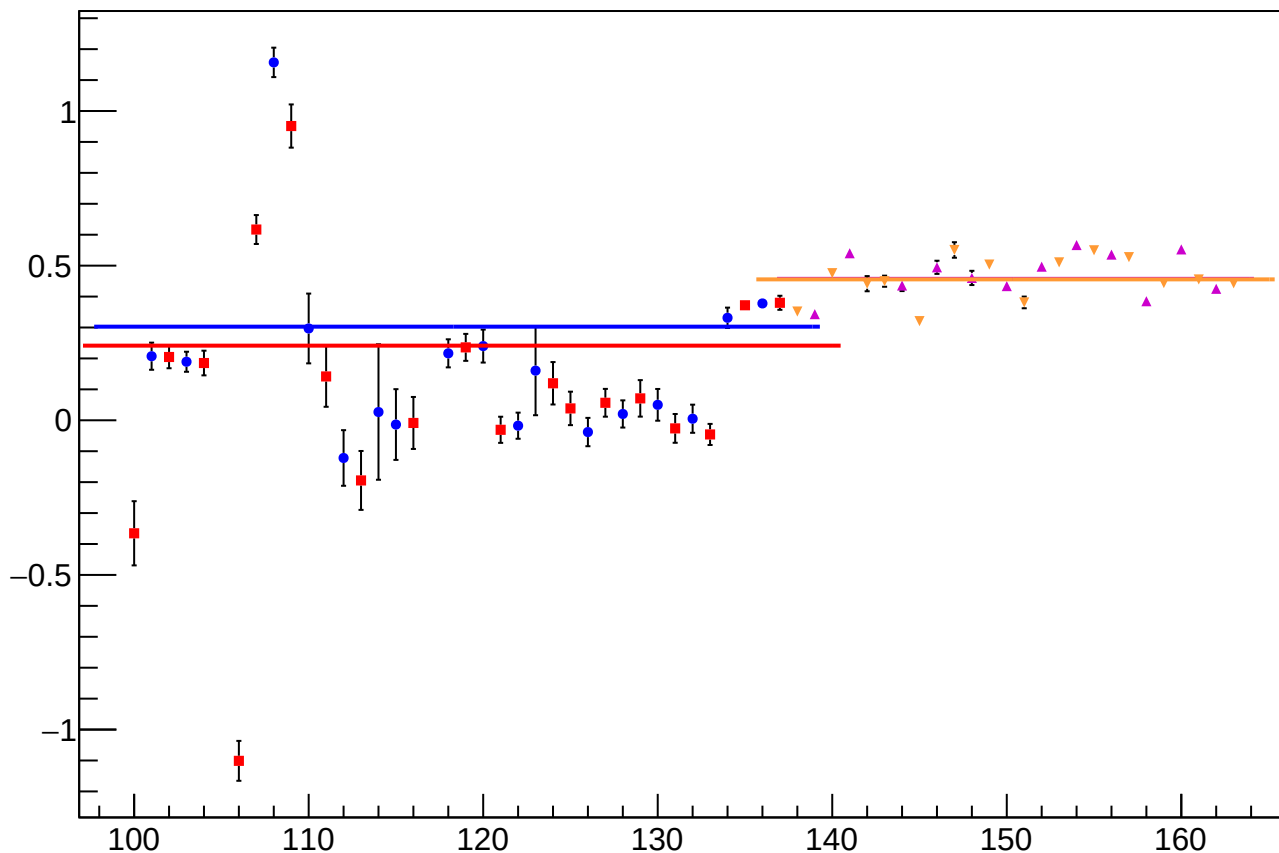
Left In: 13.313 $\pm$ 0.088  $\chi^2$ /NDF: 1424.6/11

+ sign 12.266 $\pm$ 0.074  $\chi^2$ /NDF: 4852.5/30

All: 12.446 $\pm$ 0.053  $\chi^2$ /NDF: 10366.7/61

- sign 12.642 $\pm$ 0.077  $\chi^2$ /NDF: 5501.9/30

# reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 646.6/16

Left Out:  $0.456 \pm 0.004$   $\chi^2/\text{NDF}$ : 299.1/13

Right Out:  $0.241 \pm 0.008$   $\chi^2/\text{NDF}$ : 986.7/18

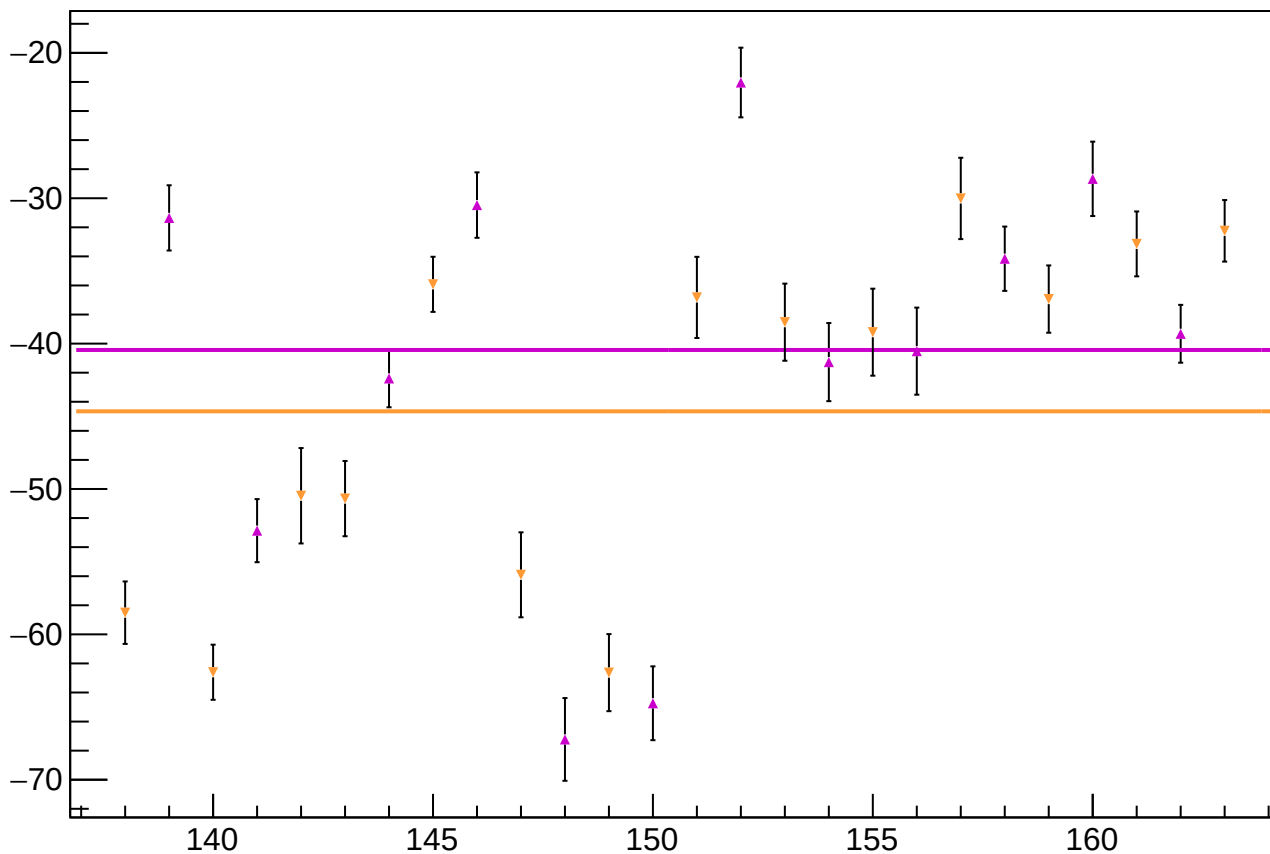
Left In:  $0.457 \pm 0.004$   $\chi^2/\text{NDF}$ : 417.2/11

+ sign  $0.429 \pm 0.003$   $\chi^2/\text{NDF}$ : 1232.6/30

All:  $0.425 \pm 0.002$   $\chi^2/\text{NDF}$ : 3176.8/61

- sign  $0.421 \pm 0.003$   $\chi^2/\text{NDF}$ : 1941.5/30

# reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -44.656+/-0.646  $\chi^2/\text{NDF}$ : 337.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

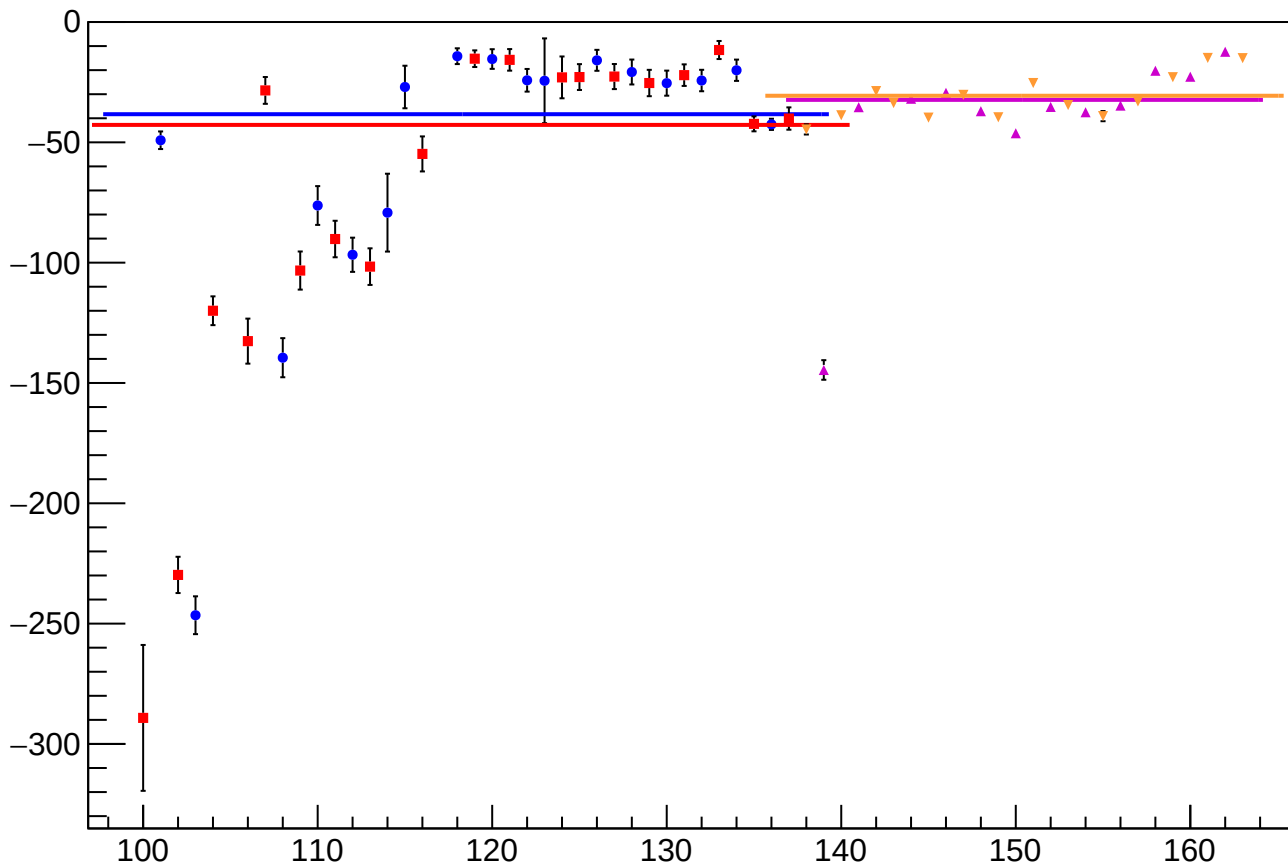
Left In: -40.437+/-0.678  $\chi^2/\text{NDF}$ : 338.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.649+/-0.468  $\chi^2/\text{NDF}$ : 696.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-38.309 \pm 1.137$   $\chi^2/\text{NDF}$ : 1132.7/16

Left Out:  $-30.641 \pm 0.455$   $\chi^2/\text{NDF}$ : 390.3/13

Right Out:  $-42.756 \pm 1.211$   $\chi^2/\text{NDF}$ : 1341.6/18

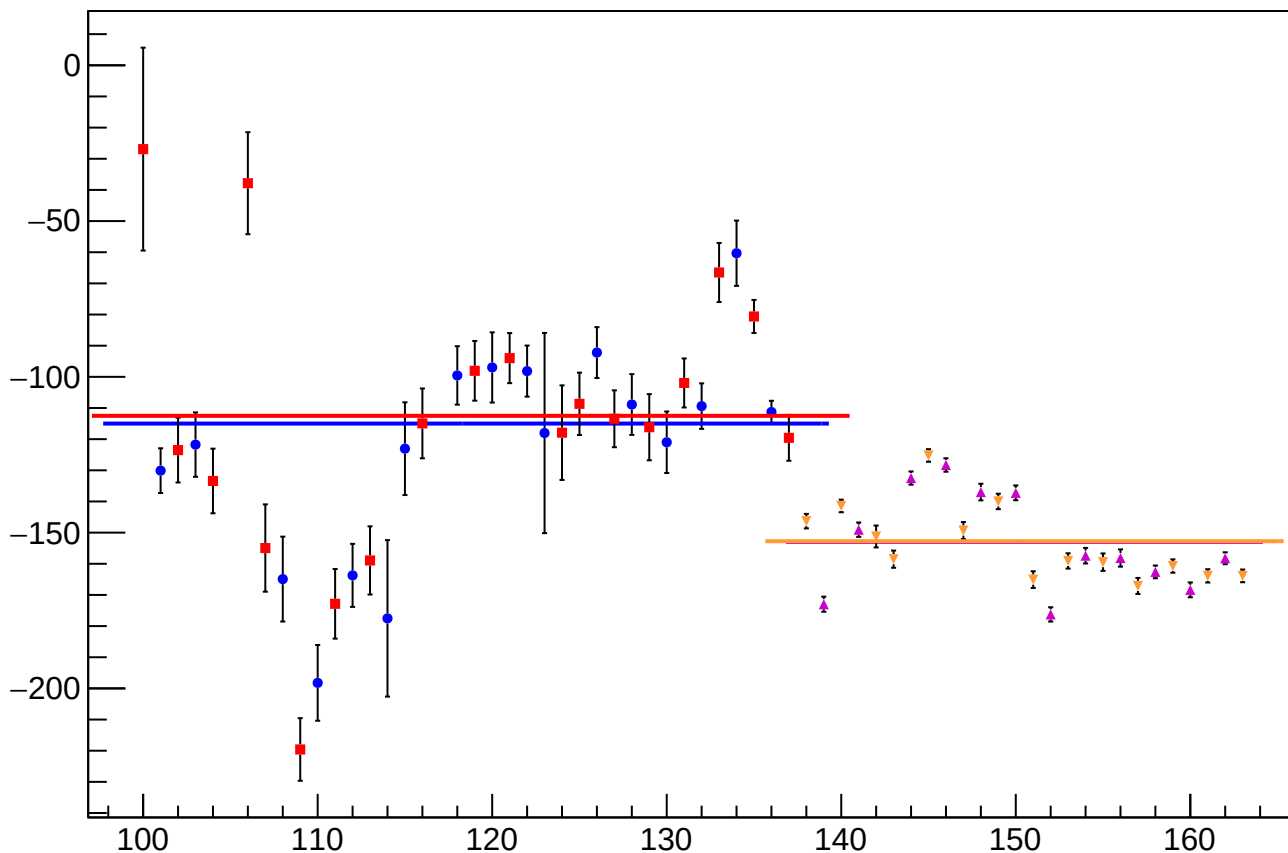
Left In:  $-32.352 \pm 0.478$   $\chi^2/\text{NDF}$ : 1110.8/11

+ sign  $-31.700 \pm 0.422$   $\chi^2/\text{NDF}$ : 1562.2/30

All:  $-32.675 \pm 0.306$   $\chi^2/\text{NDF}$ : 4089.7/61

- sign  $-33.755 \pm 0.445$   $\chi^2/\text{NDF}$ : 2516.3/30

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug



Right In:  $-114.996 \pm 2.072$   $\chi^2/\text{NDF}: 141.8/16$

Left Out:  $-152.761 \pm 0.639$   $\chi^2/\text{NDF}: 393.3/13$

Right Out:  $-112.510 \pm 2.207$   $\chi^2/\text{NDF}: 273.1/18$

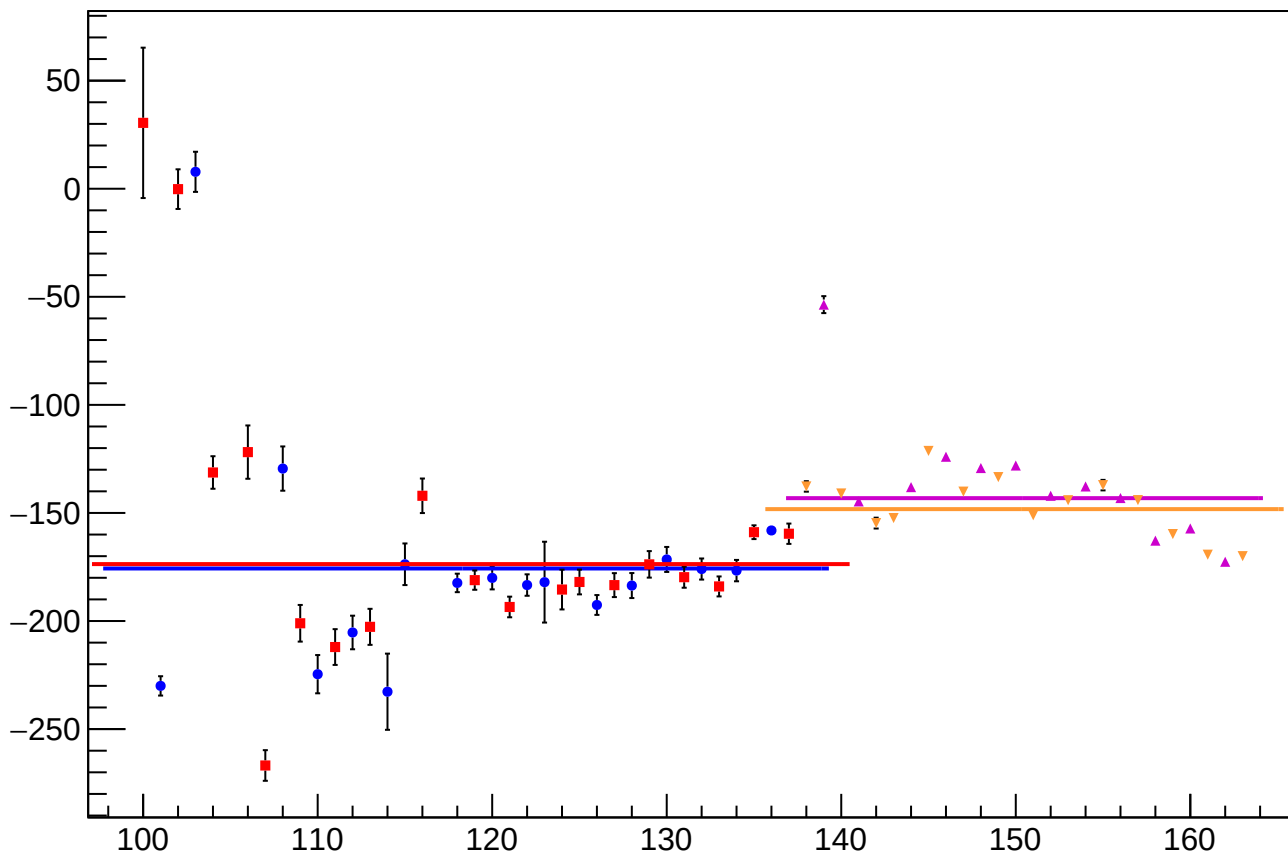
Left In:  $-152.998 \pm 0.662$   $\chi^2/\text{NDF}: 555.6/11$

+ sign  $-149.477 \pm 0.611$   $\chi^2/\text{NDF}: 838.3/30$

All:  $-149.562 \pm 0.440$   $\chi^2/\text{NDF}: 1975.9/61$

- sign  $-149.653 \pm 0.634$   $\chi^2/\text{NDF}: 1137.6/30$

# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug



Right In:  $-175.696 \pm 1.268$   $\chi^2/\text{NDF}$ : 692.9/16

Left Out:  $-148.232 \pm 0.531$   $\chi^2/\text{NDF}$ : 750.1/13

Right Out:  $-173.666 \pm 1.356$   $\chi^2/\text{NDF}$ : 737.7/18

Left In:  $-143.156 \pm 0.556$   $\chi^2/\text{NDF}$ : 1292.0/11

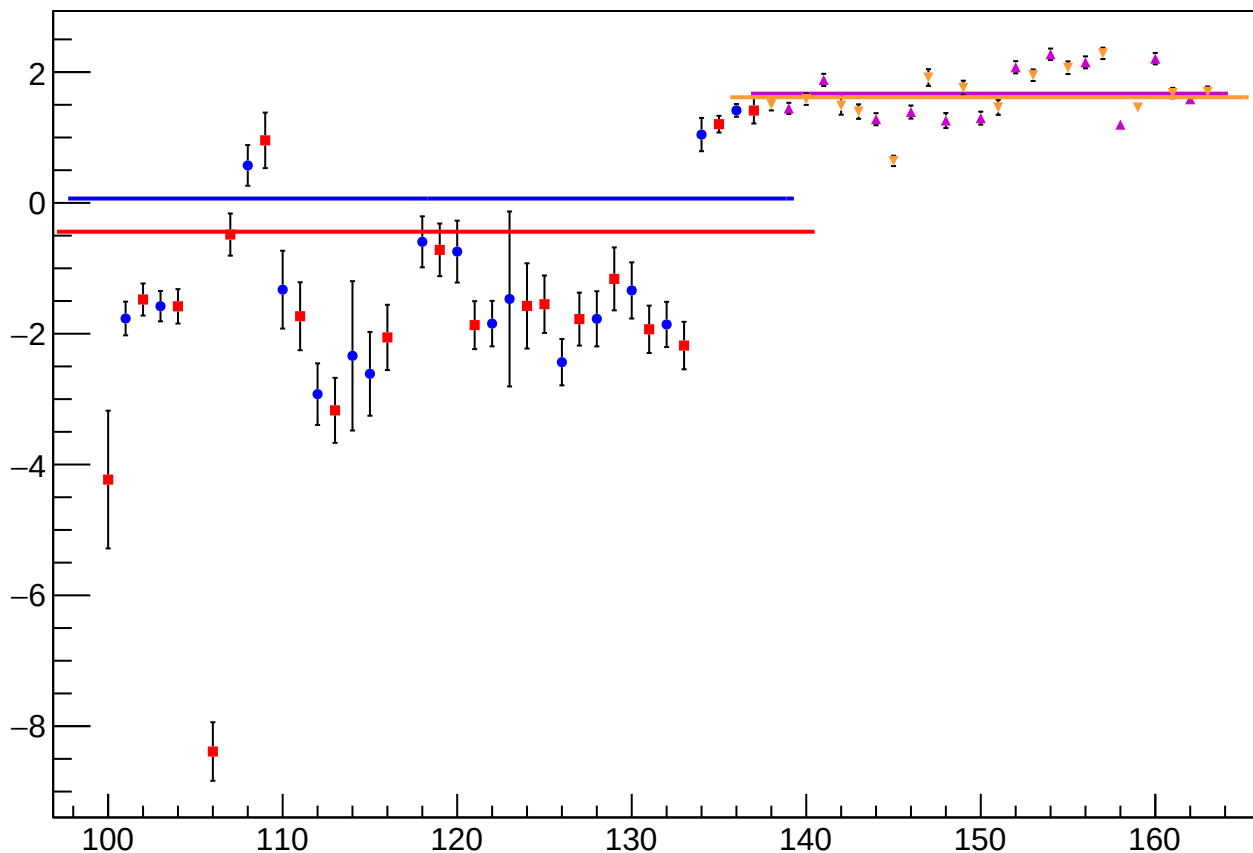
+ sign  $-152.325 \pm 0.489$   $\chi^2/\text{NDF}$ : 1842.5/30

All:  $-150.058 \pm 0.355$   $\chi^2/\text{NDF}$ : 4350.8/61

- sign  $-147.551 \pm 0.515$   $\chi^2/\text{NDF}$ : 2463.1/30



# reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug



Right In:  $0.067 \pm 0.067$   $\chi^2/\text{NDF}$ : 526.1/16

Left Out:  $1.615 \pm 0.025$   $\chi^2/\text{NDF}$ : 269.0/13

Right Out:  $-0.440 \pm 0.071$   $\chi^2/\text{NDF}$ : 754.9/18

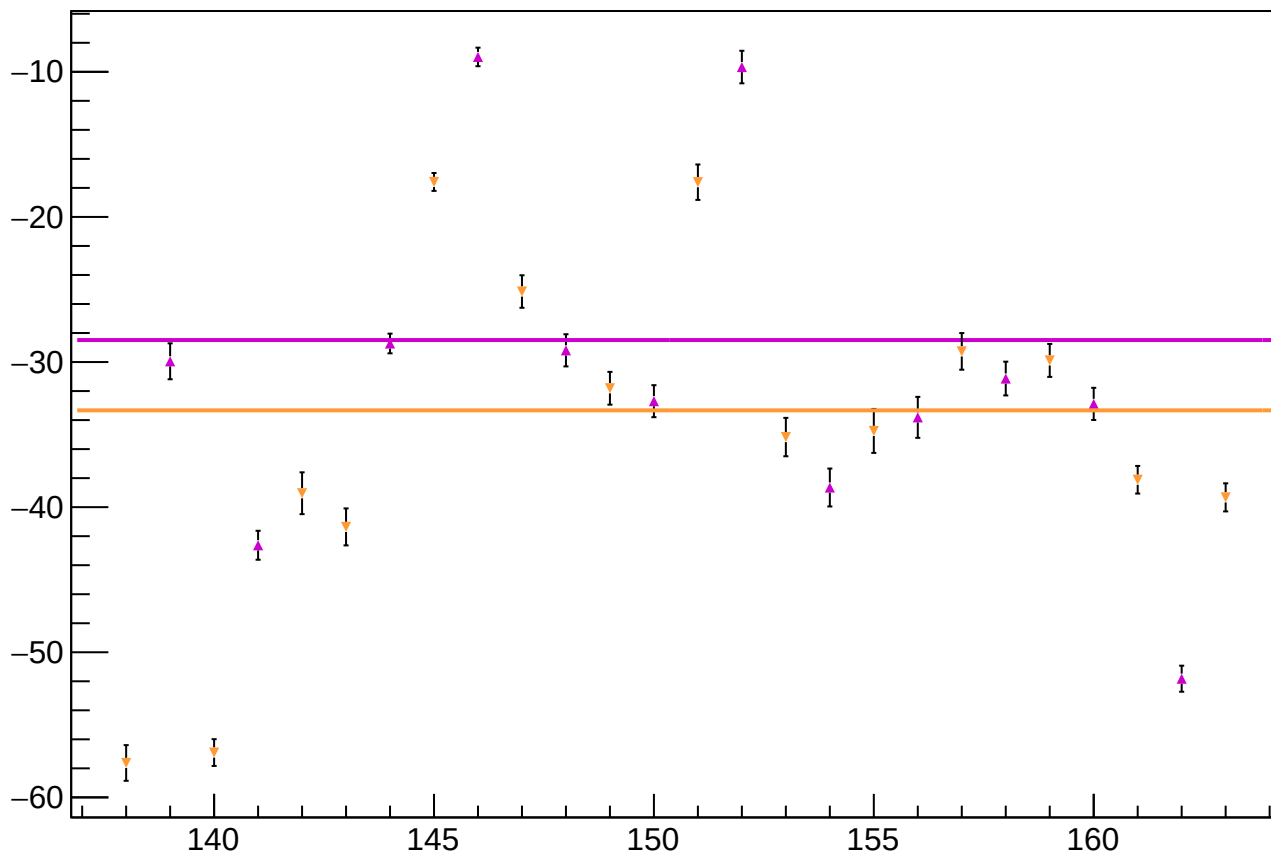
Left In:  $1.671 \pm 0.026$   $\chi^2/\text{NDF}$ : 239.3/11

+ sign  $1.427 \pm 0.023$   $\chi^2/\text{NDF}$ : 1264.6/30

All:  $1.426 \pm 0.017$   $\chi^2/\text{NDF}$ : 3037.6/61

- sign  $1.425 \pm 0.024$   $\chi^2/\text{NDF}$ : 1773.0/30

# reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.329+/-0.284  $\chi^2/\text{NDF}$ : 2057.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

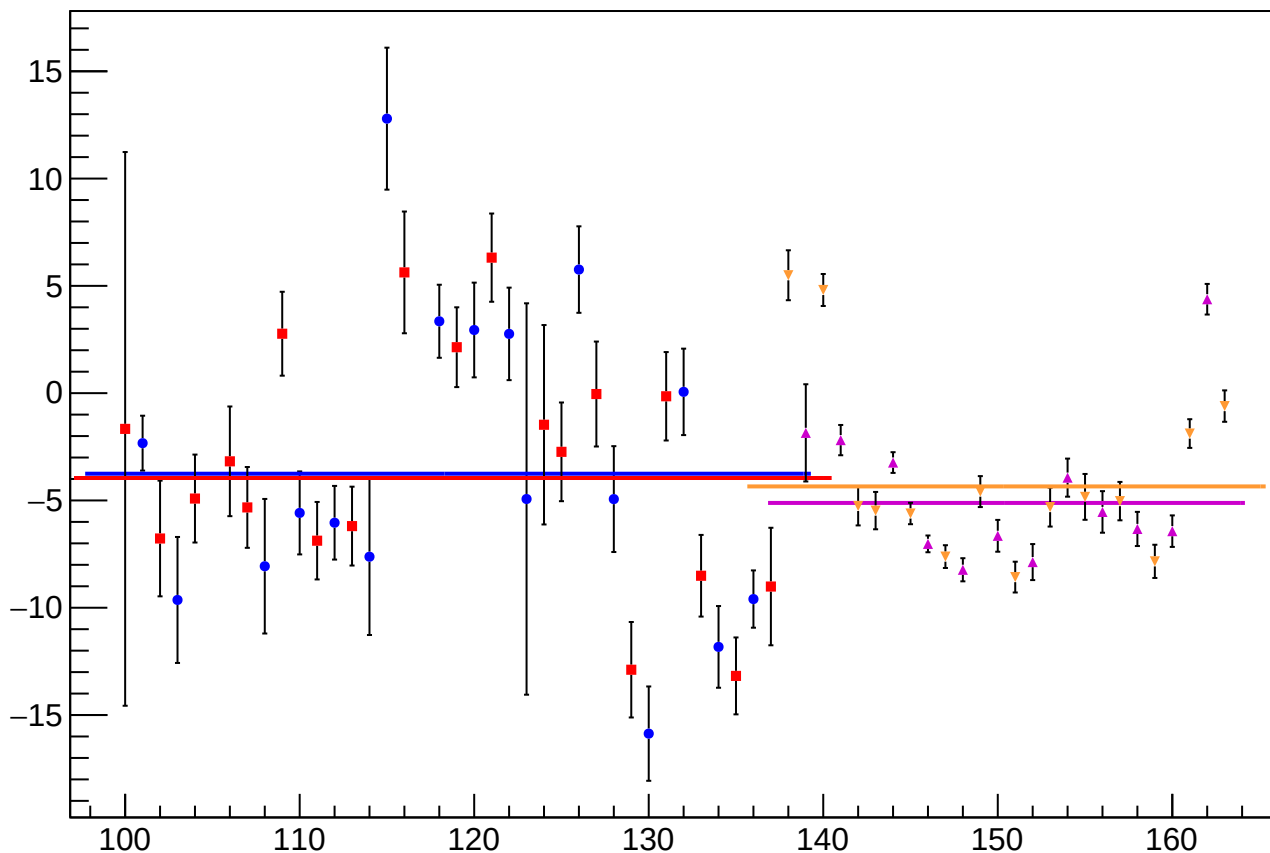
Left In: -28.485+/-0.282  $\chi^2/\text{NDF}$ : 2204.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -30.887+/-0.200  $\chi^2/\text{NDF}$ : 4407.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.754 \pm 0.495$   $\chi^2/\text{NDF}: 165.3/16$

Left Out:  $-4.347 \pm 0.198$   $\chi^2/\text{NDF}: 366.2/13$

Right Out:  $-3.954 \pm 0.507$   $\chi^2/\text{NDF}: 123.3/18$

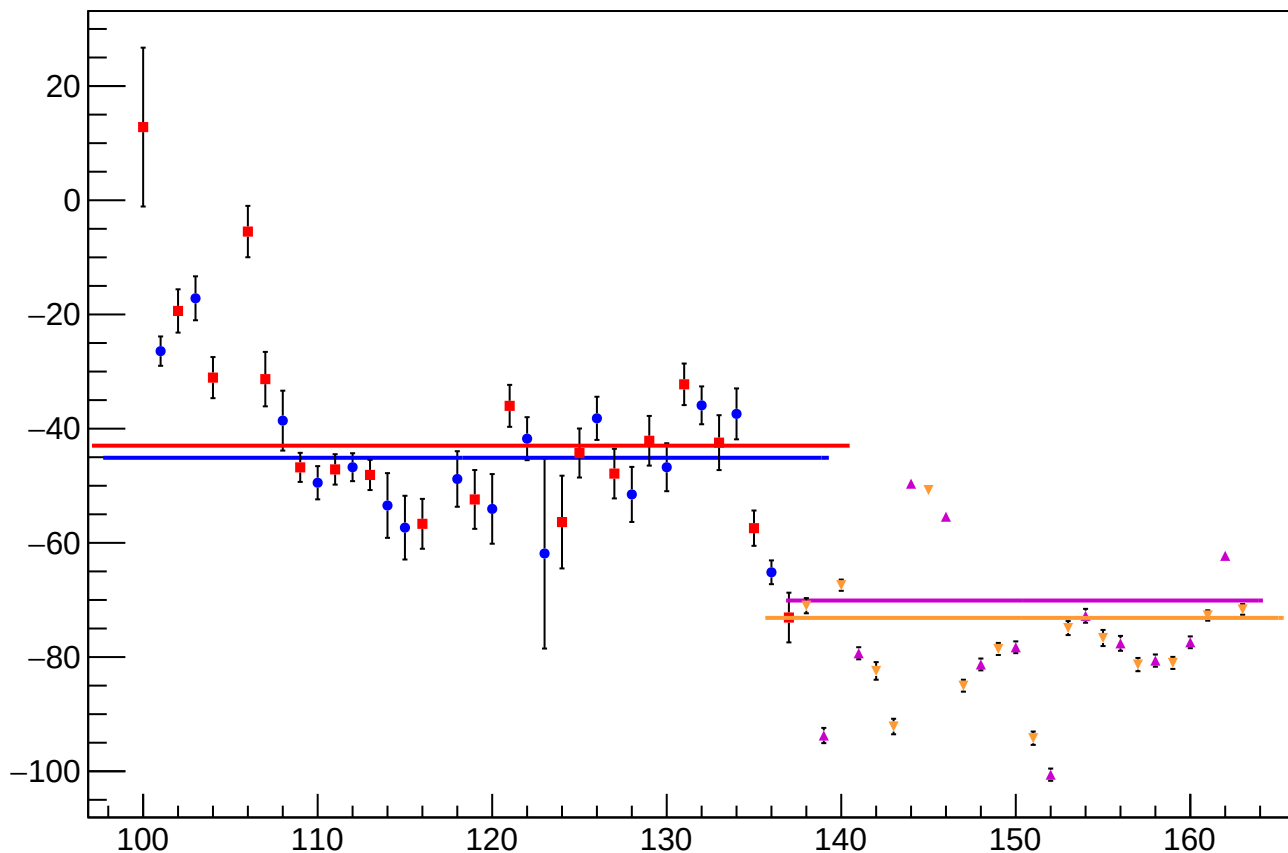
Left In:  $-5.116 \pm 0.191$   $\chi^2/\text{NDF}: 291.3/11$

+ sign  $-4.265 \pm 0.183$   $\chi^2/\text{NDF}: 532.7/30$

All:  $-4.628 \pm 0.128$   $\chi^2/\text{NDF}: 959.5/61$

- sign  $-4.972 \pm 0.179$   $\chi^2/\text{NDF}: 419.2/30$

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-45.101 \pm 0.881$   $\chi^2/\text{NDF}$ : 229.9/16

Left Out:  $-73.138 \pm 0.282$   $\chi^2/\text{NDF}$ : 2032.2/13

Right Out:  $-42.979 \pm 0.877$   $\chi^2/\text{NDF}$ : 248.9/18

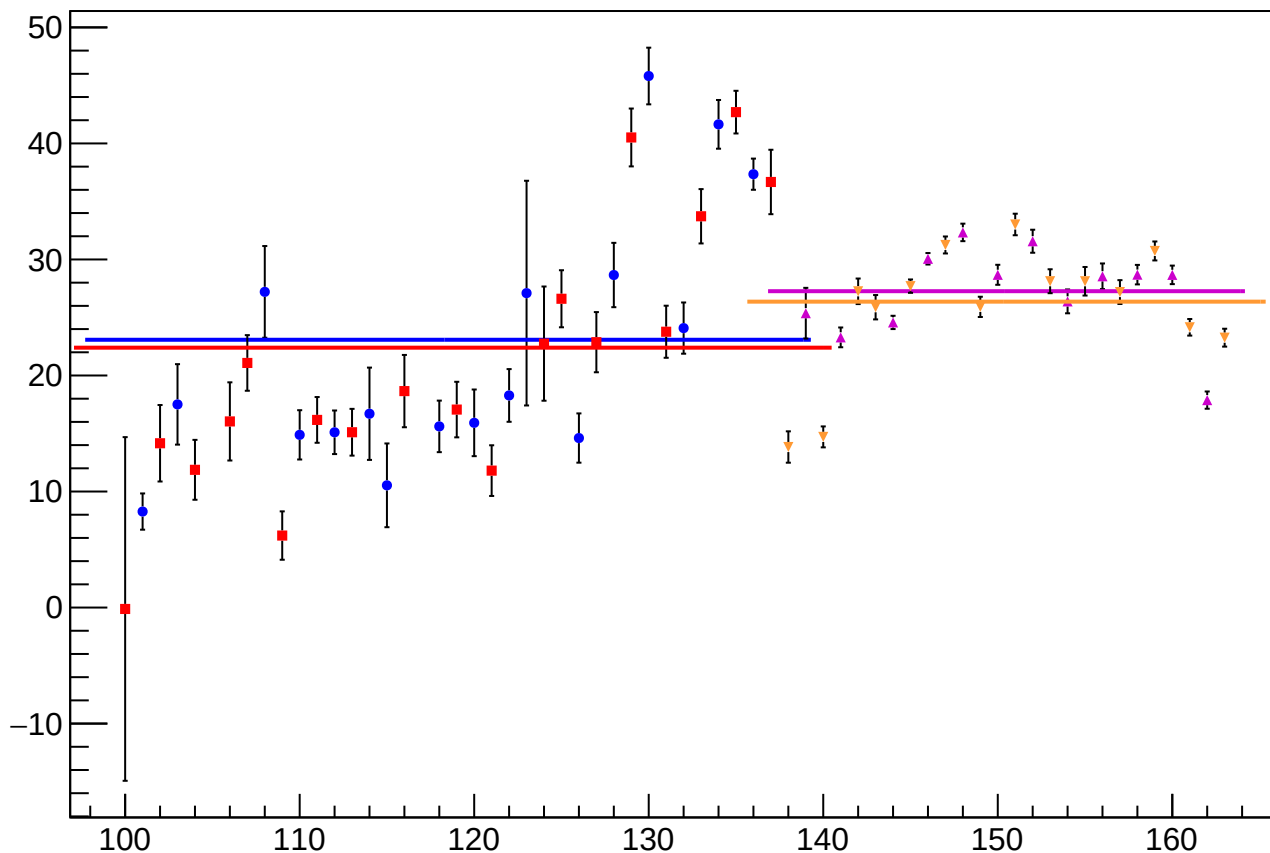
Left In:  $-70.098 \pm 0.276$   $\chi^2/\text{NDF}$ : 3006.5/11

+ sign  $-70.534 \pm 0.268$   $\chi^2/\text{NDF}$ : 3181.1/30

All:  $-69.068 \pm 0.188$   $\chi^2/\text{NDF}$ : 7364.4/61

- sign  $-67.658 \pm 0.263$   $\chi^2/\text{NDF}$ : 4124.8/30

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug



Right In: 23.079 $\pm$ 0.556  $\chi^2$ /NDF: 461.1/16

Left Out: 26.364 $\pm$ 0.232  $\chi^2$ /NDF: 415.0/13

Right Out: 22.397 $\pm$ 0.572  $\chi^2$ /NDF: 370.3/18

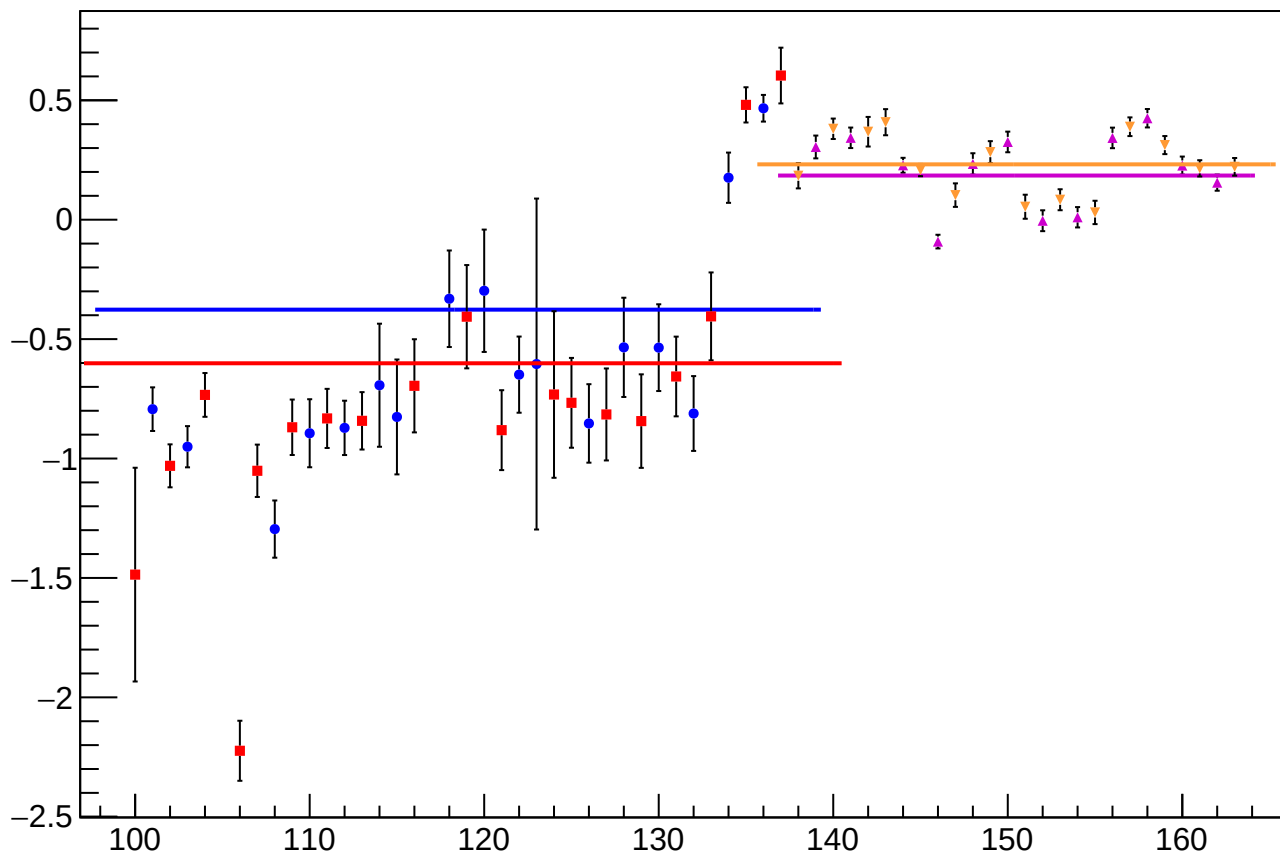
Left In: 27.265 $\pm$ 0.227  $\chi^2$ /NDF: 310.4/11

+ sign 25.876 $\pm$ 0.214  $\chi^2$ /NDF: 905.9/30

All: 26.245 $\pm$ 0.150  $\chi^2$ /NDF: 1654.9/61

- sign 26.603 $\pm$ 0.211  $\chi^2$ /NDF: 743.2/30

# reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}$ : 437.1/16

Left Out:  $0.232 \pm 0.011$   $\chi^2/\text{NDF}$ : 99.0/13

Right Out:  $-0.601 \pm 0.030$   $\chi^2/\text{NDF}$ : 555.6/18

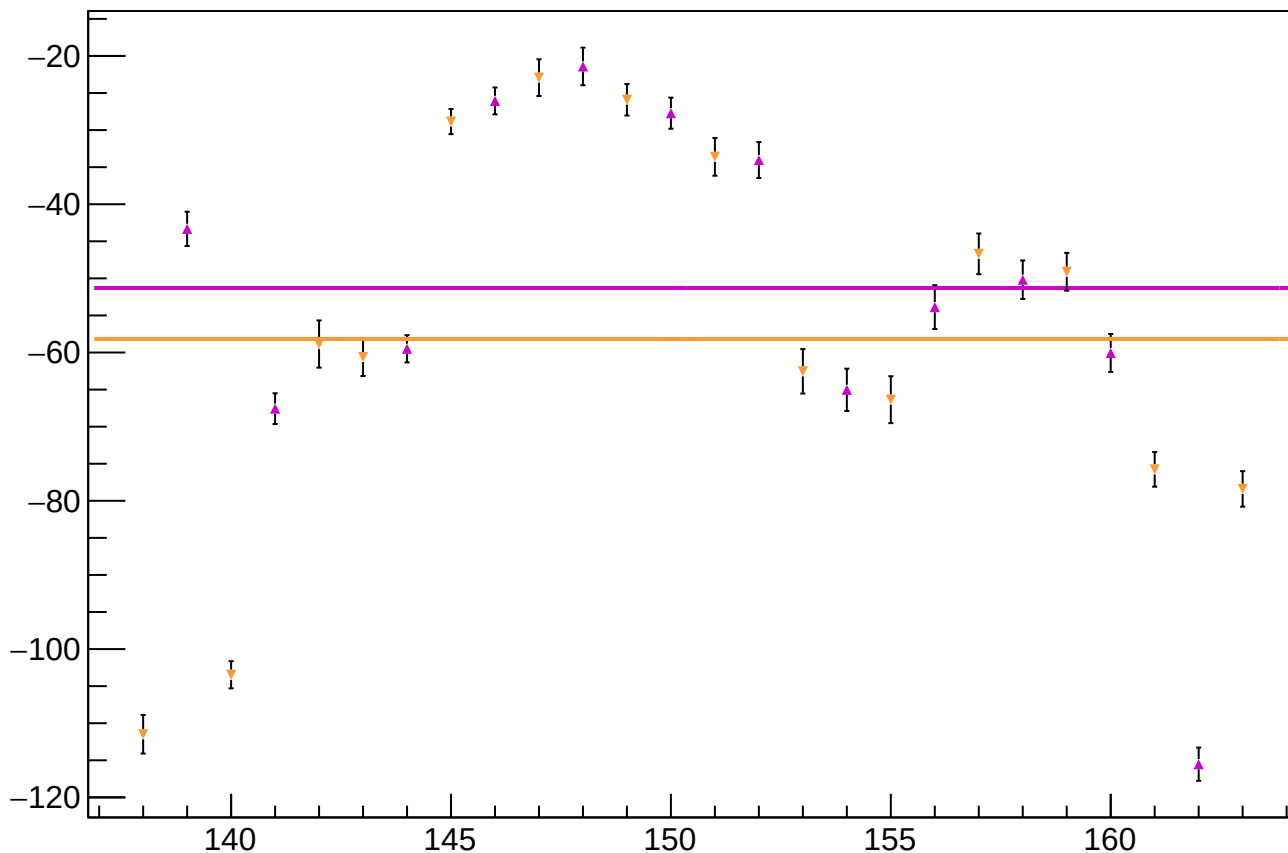
Left In:  $0.185 \pm 0.011$   $\chi^2/\text{NDF}$ : 216.3/11

+ sign  $0.159 \pm 0.010$   $\chi^2/\text{NDF}$ : 896.7/30

All:  $0.125 \pm 0.007$   $\chi^2/\text{NDF}$ : 2287.9/61

- sign  $0.091 \pm 0.010$   $\chi^2/\text{NDF}$ : 1369.8/30

# reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -58.179+/-0.640  $\chi^2/\text{NDF}$ : 2023.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

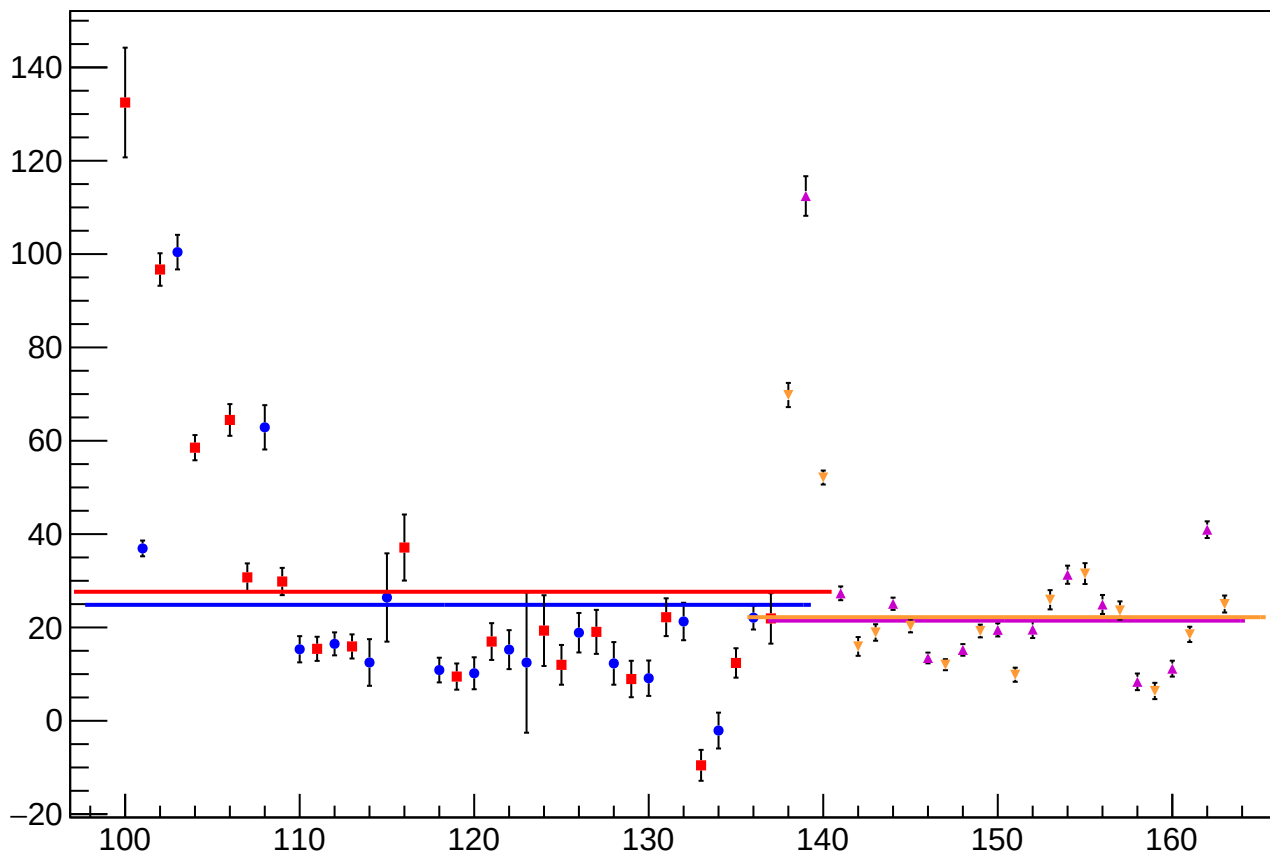
Left In: -51.296+/-0.657  $\chi^2/\text{NDF}$ : 1462.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -54.827+/-0.459  $\chi^2/\text{NDF}$ : 3542.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug



Right In:  $24.848 \pm 0.801$   $\chi^2/\text{NDF}$ : 690.8/16

Left Out:  $22.202 \pm 0.444$   $\chi^2/\text{NDF}$ : 1006.3/13

Right Out:  $27.648 \pm 0.810$   $\chi^2/\text{NDF}$ : 1009.2/18

Left In:  $21.465 \pm 0.458$   $\chi^2/\text{NDF}$ : 798.0/11

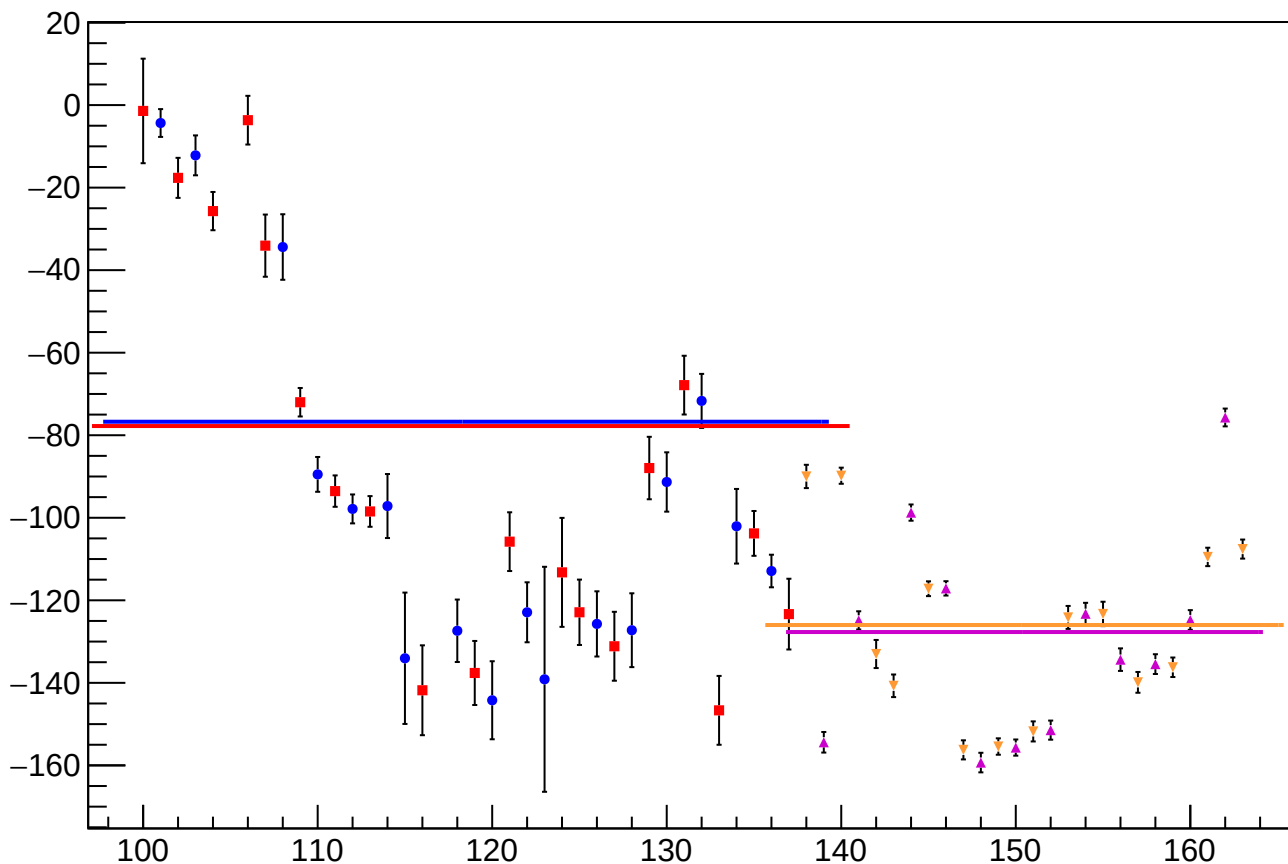
+ sign  $22.825 \pm 0.389$   $\chi^2/\text{NDF}$ : 1705.4/30

All:  $22.891 \pm 0.278$   $\chi^2/\text{NDF}$ : 3556.8/61

- sign  $22.960 \pm 0.398$   $\chi^2/\text{NDF}$ : 1851.3/30



# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug



Right In:  $-76.728 \pm 1.412$   $\chi^2/\text{NDF}: 1042.0/16$

Left Out:  $-125.989 \pm 0.633$   $\chi^2/\text{NDF}: 1234.9/13$

Right Out:  $-77.773 \pm 1.352$   $\chi^2/\text{NDF}: 871.8/18$

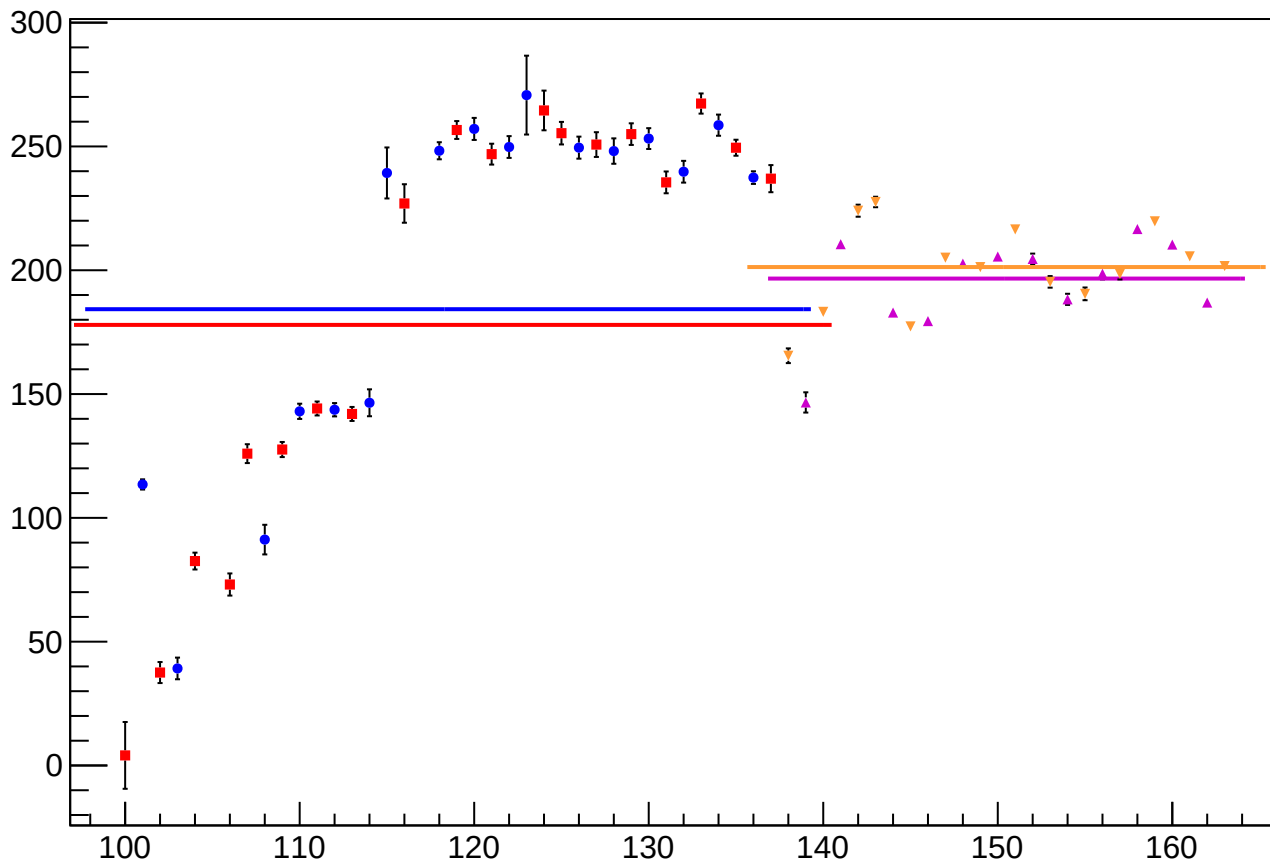
Left In:  $-127.688 \pm 0.643$   $\chi^2/\text{NDF}: 1458.9/11$

+ sign  $-117.750 \pm 0.578$   $\chi^2/\text{NDF}: 3290.2/30$

All:  $-118.120 \pm 0.409$   $\chi^2/\text{NDF}: 6733.2/61$

- sign  $-118.493 \pm 0.580$   $\chi^2/\text{NDF}: 3442.2/30$

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug



Right In: 184.271 $\pm$ 0.914  $\chi^2$ /NDF: 5401.0/16

Left Out: 201.291 $\pm$ 0.524  $\chi^2$ /NDF: 908.9/13

Right Out: 177.930 $\pm$ 0.924  $\chi^2$ /NDF: 6330.9/18

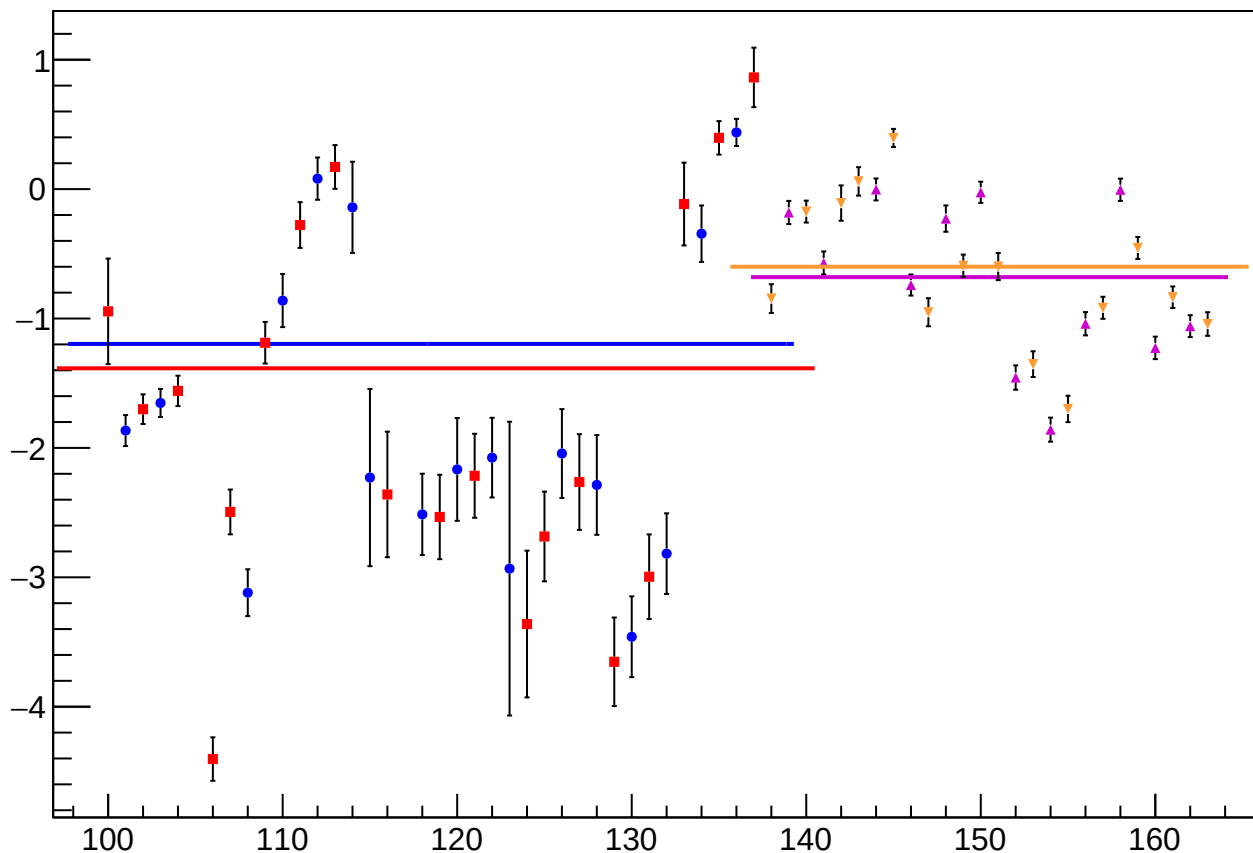
Left In: 196.640 $\pm$ 0.538  $\chi^2$ /NDF: 698.2/11

+ sign 197.078 $\pm$ 0.455  $\chi^2$ /NDF: 6571.0/30

All: 194.547 $\pm$ 0.325  $\chi^2$ /NDF: 13969.7/61

- sign 191.898 $\pm$ 0.465  $\chi^2$ /NDF: 7335.3/30

# reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug



Right In:  $-1.196 \pm 0.048$   $\chi^2/\text{NDF}$ : 623.1/16

Left Out:  $-0.600 \pm 0.025$   $\chi^2/\text{NDF}$ : 511.8/13

Right Out:  $-1.385 \pm 0.046$   $\chi^2/\text{NDF}$ : 924.4/18

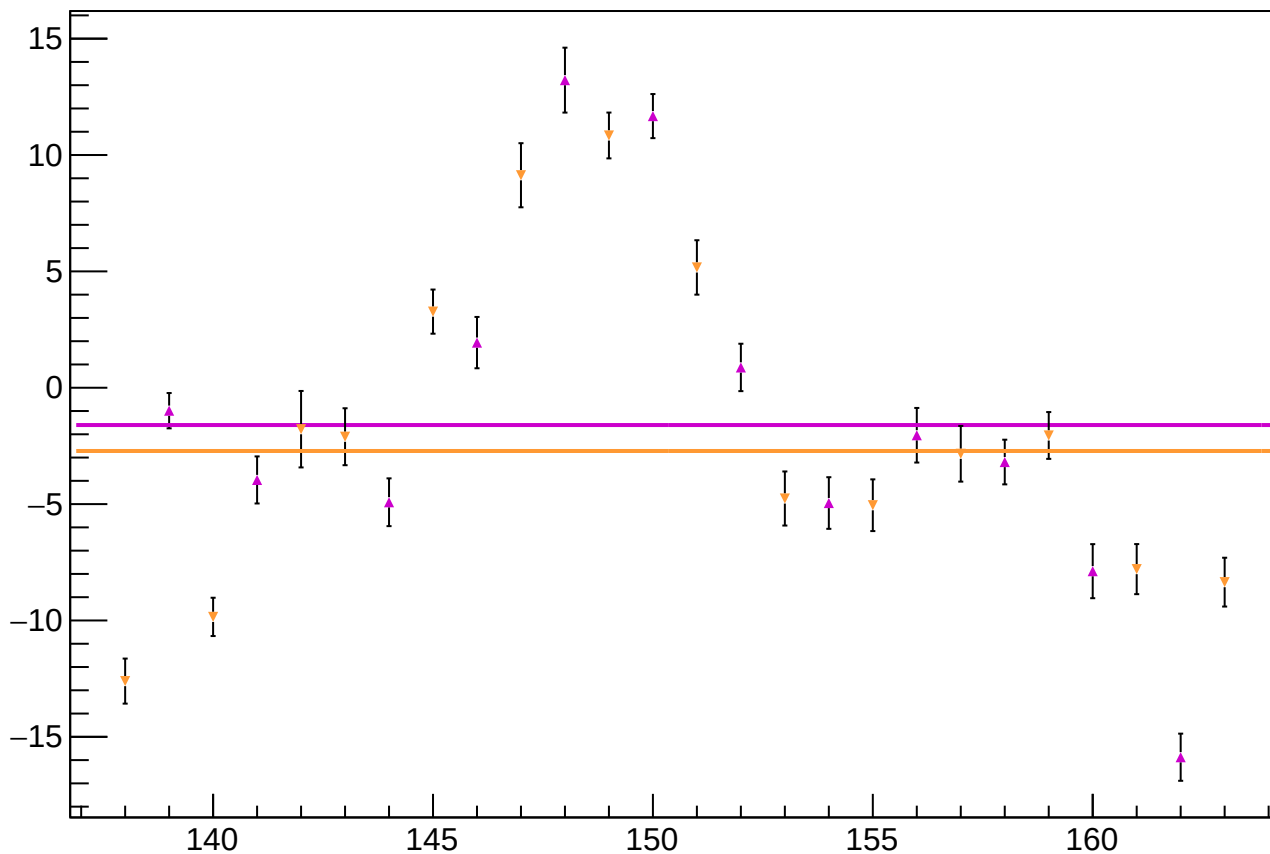
Left In:  $-0.680 \pm 0.025$   $\chi^2/\text{NDF}$ : 547.1/11

+ sign  $-0.726 \pm 0.022$   $\chi^2/\text{NDF}$ : 1256.2/30

All:  $-0.786 \pm 0.016$   $\chi^2/\text{NDF}$ : 2923.5/61

- sign  $-0.846 \pm 0.022$   $\chi^2/\text{NDF}$ : 1652.6/30

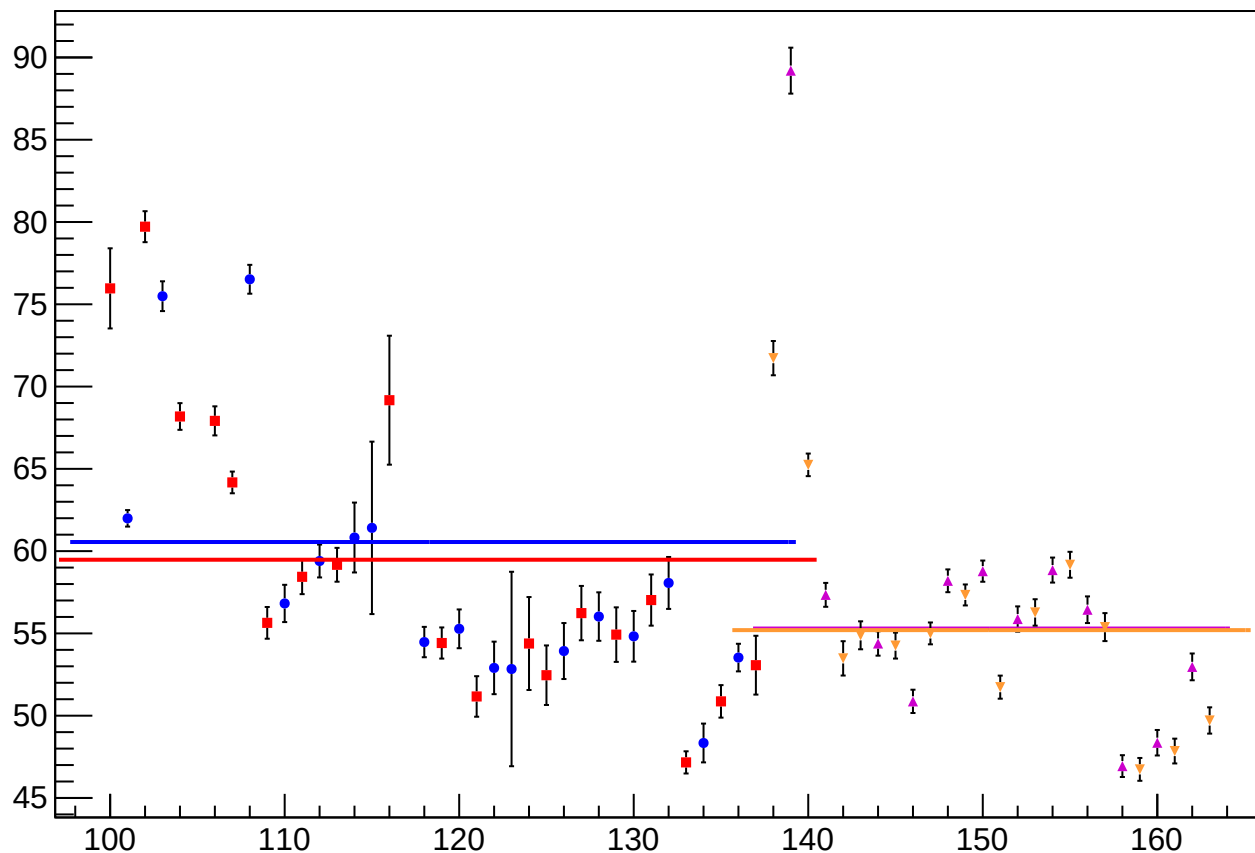
# reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.717 $\pm$ 0.289  $\chi^2/\text{NDF}$ : 588.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.603 $\pm$ 0.296  $\chi^2/\text{NDF}$ : 581.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -2.174 $\pm$ 0.207  $\chi^2/\text{NDF}$ : 1177.3/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug



Right In: 60.554 $\pm$ 0.262  $\chi^2$ /NDF: 930.8/16

Left Out: 55.199 $\pm$ 0.206  $\chi^2$ /NDF: 824.5/13

Right Out: 59.477 $\pm$ 0.248  $\chi^2$ /NDF: 1317.0/18

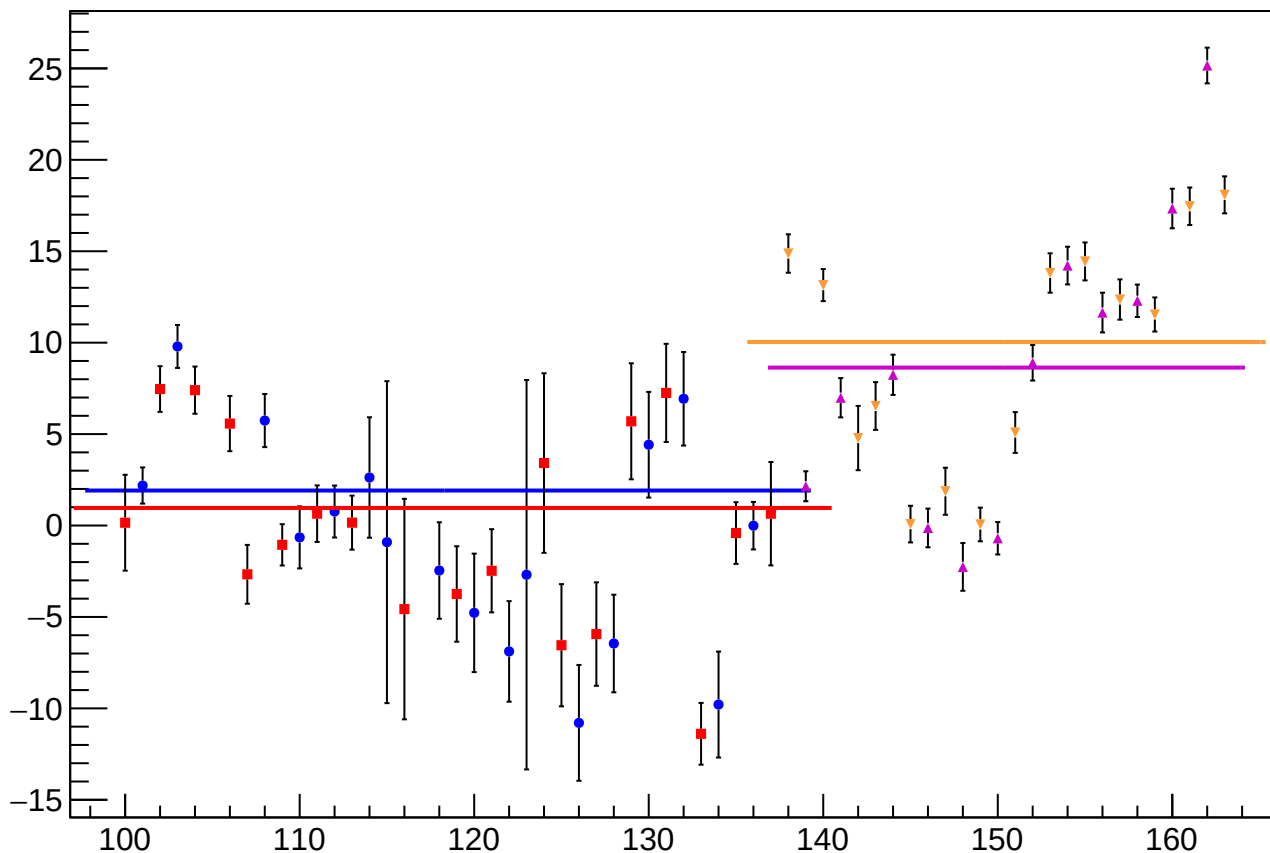
Left In: 55.296 $\pm$ 0.218  $\chi^2$ /NDF: 956.8/11

+ sign 57.244 $\pm$ 0.162  $\chi^2$ /NDF: 2014.4/30

All: 57.180 $\pm$ 0.115  $\chi^2$ /NDF: 4449.2/61

- sign 57.115 $\pm$ 0.164  $\chi^2$ /NDF: 2434.5/30

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug



Right In:  $1.914 \pm 0.458$   $\chi^2/\text{NDF}: 121.6/16$

Left Out:  $10.036 \pm 0.284$   $\chi^2/\text{NDF}: 479.3/13$

Right Out:  $0.960 \pm 0.424$   $\chi^2/\text{NDF}: 149.5/18$

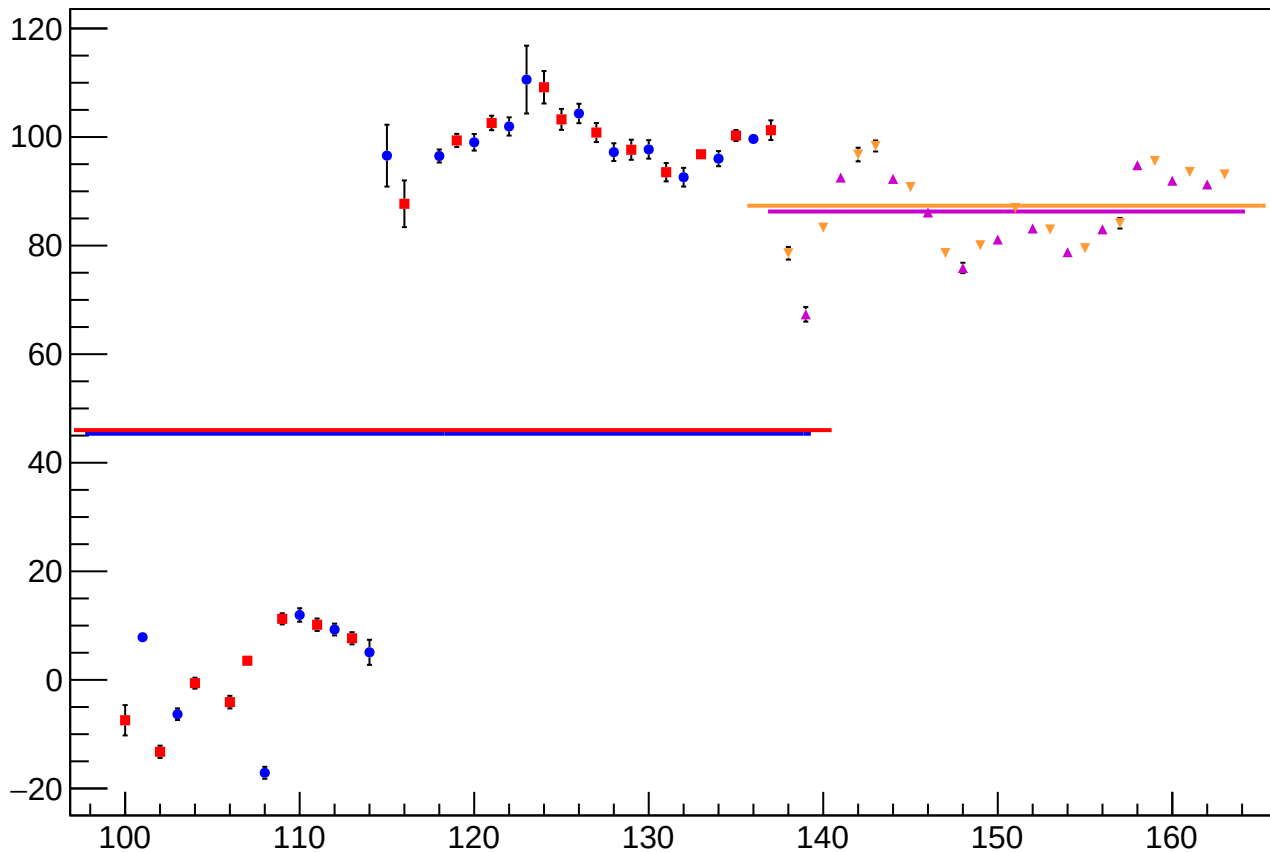
Left In:  $8.637 \pm 0.289$   $\chi^2/\text{NDF}: 720.2/11$

+ sign  $7.778 \pm 0.241$   $\chi^2/\text{NDF}: 828.2/30$

All:  $6.982 \pm 0.170$   $\chi^2/\text{NDF}: 1943.0/61$

- sign  $6.201 \pm 0.239$   $\chi^2/\text{NDF}: 1093.2/30$

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug



Right In: 45.344 $\pm$ 0.303  $\chi^2$ /NDF: 25071.0/16

Left Out: 87.351 $\pm$ 0.239  $\chi^2$ /NDF: 794.8/13

Right Out: 46.007 $\pm$ 0.289  $\chi^2$ /NDF: 28219.9/18

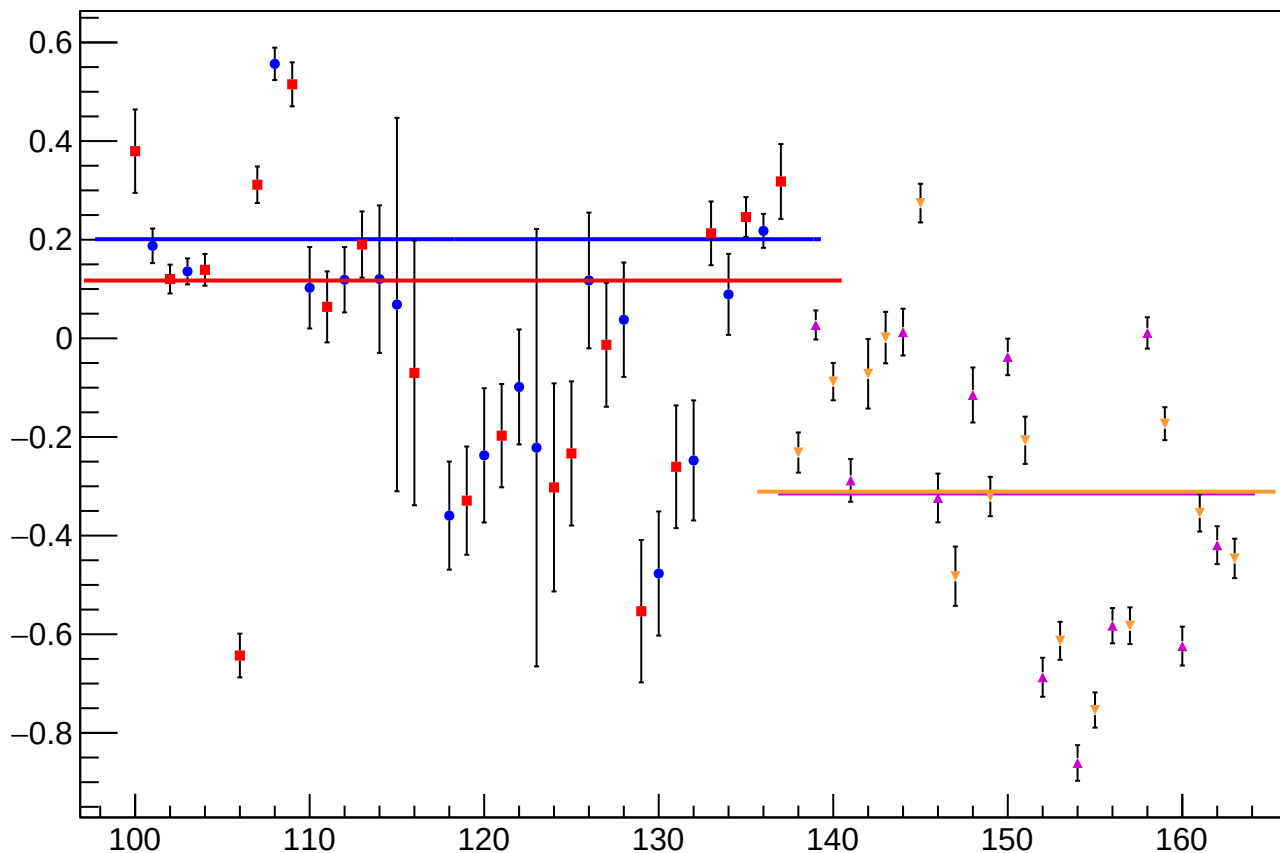
Left In: 86.280 $\pm$ 0.250  $\chi^2$ /NDF: 790.2/11

+ sign 71.270 $\pm$ 0.188  $\chi^2$ /NDF: 37709.8/30

All: 70.169 $\pm$ 0.133  $\chi^2$ /NDF: 77863.3/61

- sign 69.047 $\pm$ 0.189  $\chi^2$ /NDF: 40084.0/30

# reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.8/16

Left Out:  $-0.311 \pm 0.011$   $\chi^2/\text{NDF}$ : 619.1/13

Right Out:  $0.117 \pm 0.013$   $\chi^2/\text{NDF}$ : 500.1/18

Left In:  $-0.315 \pm 0.011$   $\chi^2/\text{NDF}$ : 799.4/11

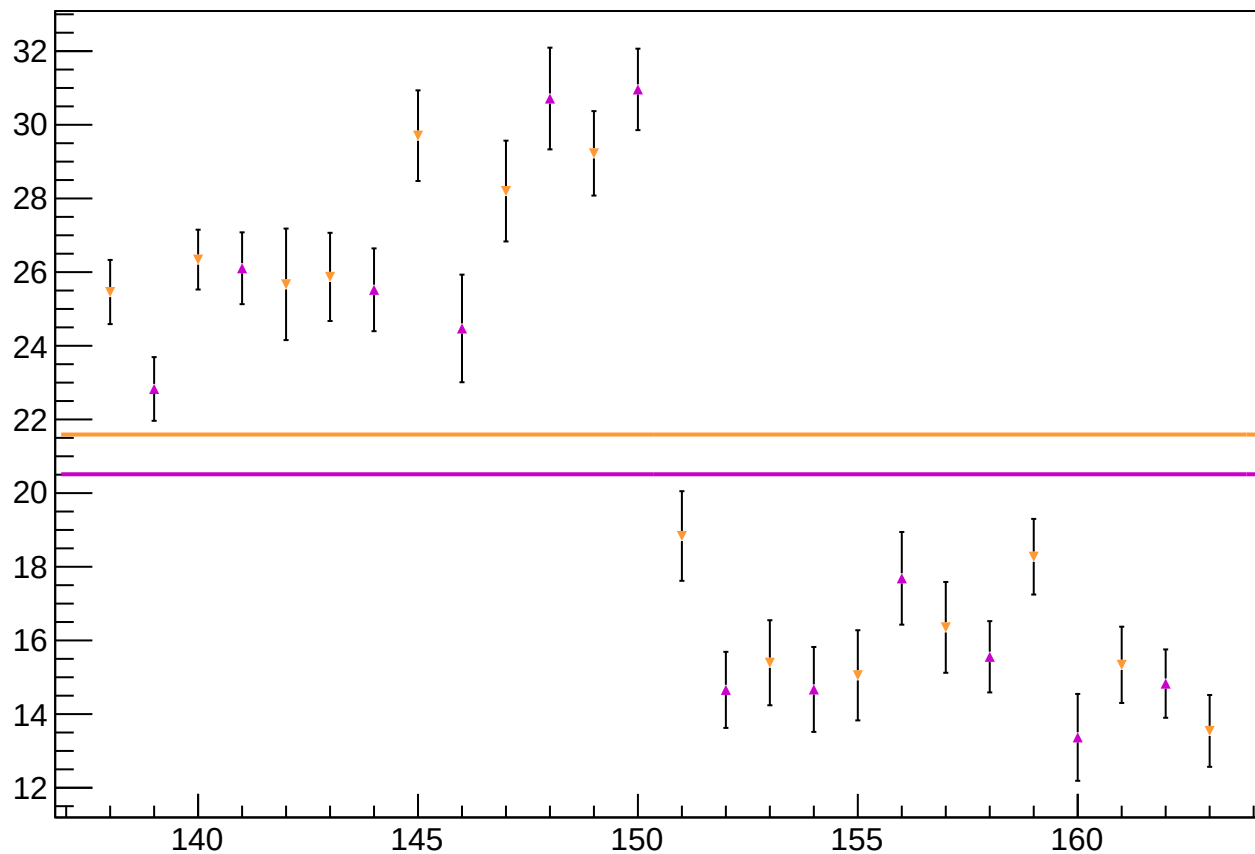
+ sign  $-0.116 \pm 0.009$   $\chi^2/\text{NDF}$ : 1660.6/30

All:  $-0.124 \pm 0.006$   $\chi^2/\text{NDF}$ : 3598.4/61

- sign  $-0.132 \pm 0.008$   $\chi^2/\text{NDF}$ : 1935.9/30



# reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 21.591+/-0.294  $\chi^2/\text{NDF}$ : 380.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

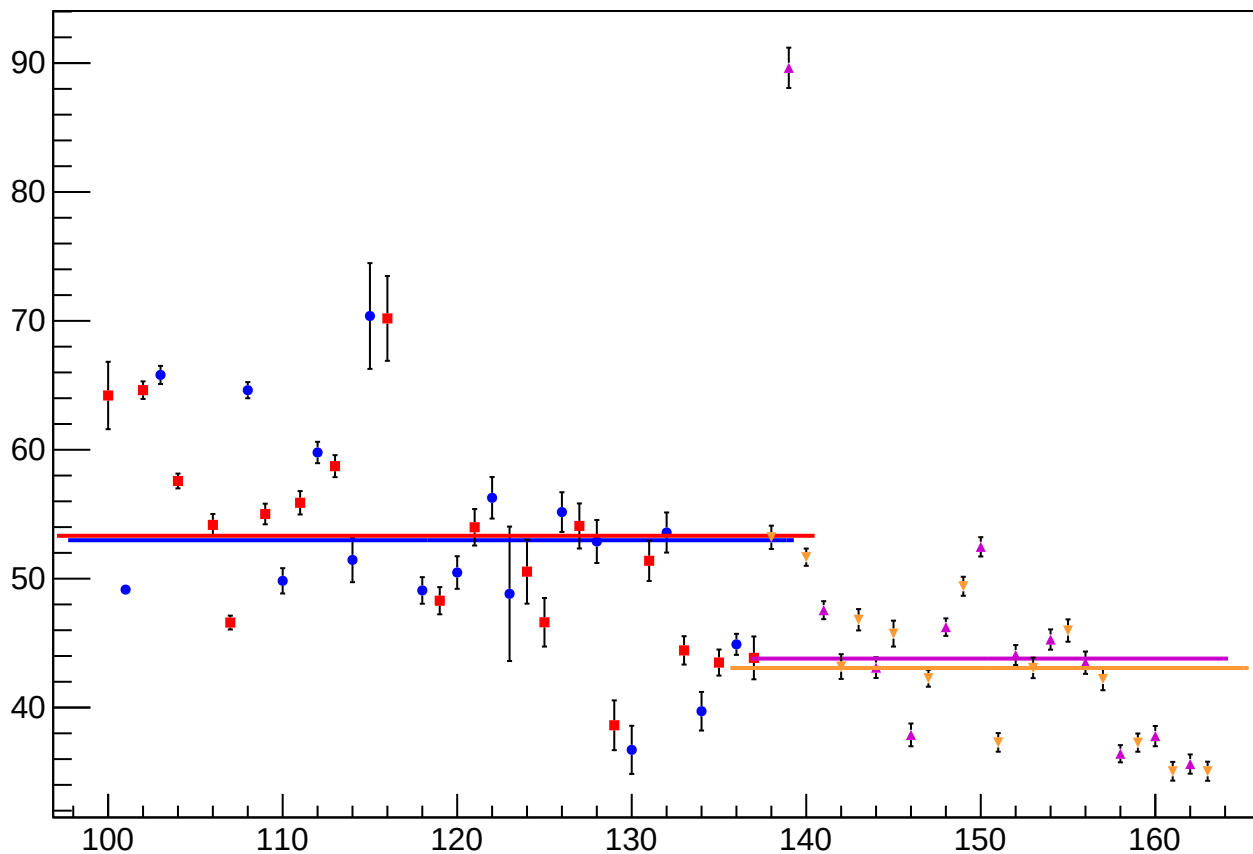
Left In: 20.511+/-0.312  $\chi^2/\text{NDF}$ : 374.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 21.084+/-0.214  $\chi^2/\text{NDF}$ : 761.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug



Right In: 52.981 $\pm$ 0.210  $\chi^2$ /NDF: 1197.8/16

Left Out: 43.067 $\pm$ 0.208  $\chi^2$ /NDF: 774.7/13

Right Out: 53.328 $\pm$ 0.227  $\chi^2$ /NDF: 872.7/18

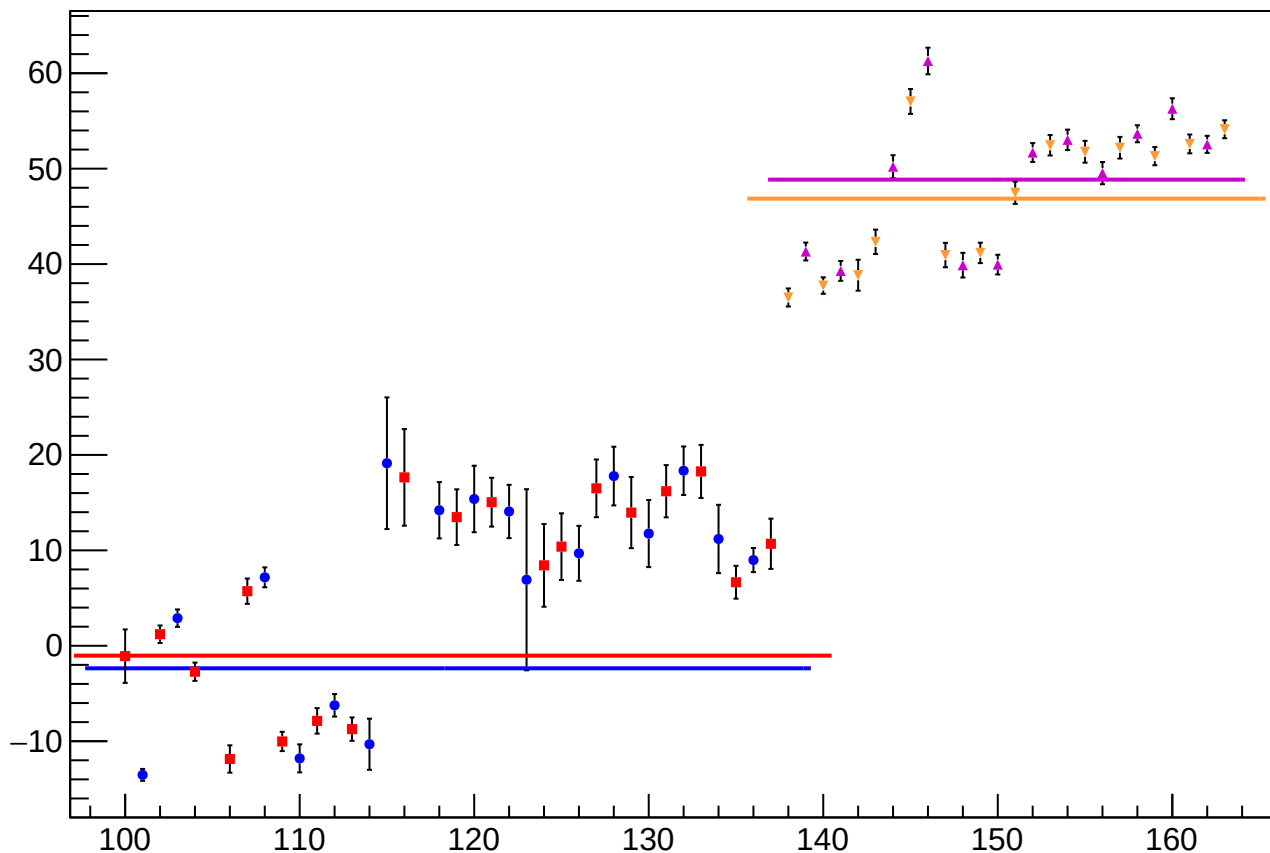
Left In: 43.799 $\pm$ 0.226  $\chi^2$ /NDF: 1386.4/11

+ sign 47.984 $\pm$ 0.148  $\chi^2$ /NDF: 3094.1/30

All: 48.248 $\pm$ 0.109  $\chi^2$ /NDF: 6244.9/61

- sign 48.556 $\pm$ 0.160  $\chi^2$ /NDF: 3143.9/30

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.361 \pm 0.364$   $\chi^2/\text{NDF}$ : 840.8/16

Left Out:  $46.860 \pm 0.290$   $\chi^2/\text{NDF}$ : 562.1/13

Right Out:  $-1.035 \pm 0.377$   $\chi^2/\text{NDF}$ : 507.7/18

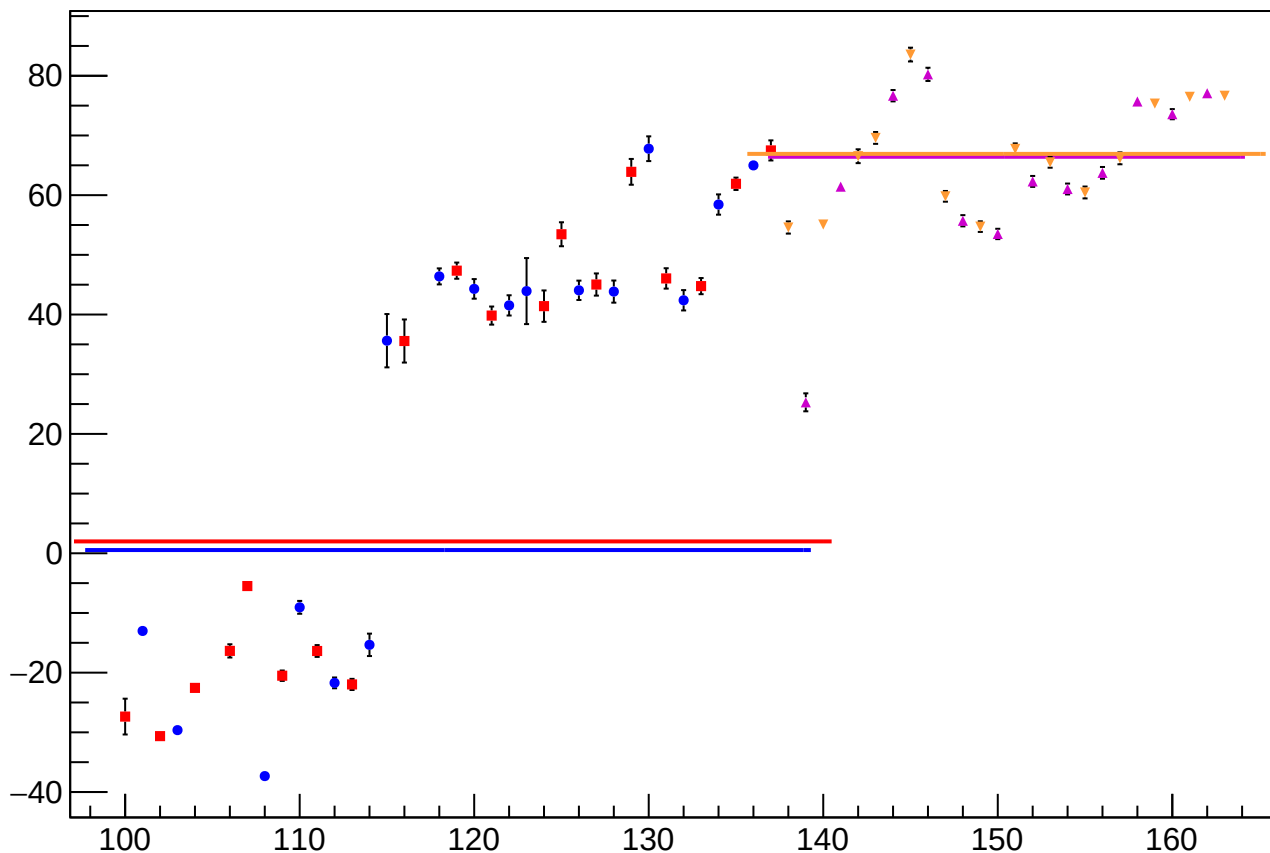
Left In:  $48.851 \pm 0.305$   $\chi^2/\text{NDF}$ : 468.4/11

+ sign  $27.773 \pm 0.227$   $\chi^2/\text{NDF}$ : 12608.6/30

All:  $28.426 \pm 0.164$   $\chi^2/\text{NDF}$ : 24198.8/61

- sign  $29.141 \pm 0.237$   $\chi^2/\text{NDF}$ : 11572.8/30

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.541 \pm 0.247$   $\chi^2/\text{NDF}$ : 18423.8/16

Left Out:  $66.916 \pm 0.242$   $\chi^2/\text{NDF}$ : 1307.2/13

Right Out:  $1.990 \pm 0.267$   $\chi^2/\text{NDF}$ : 15476.7/18

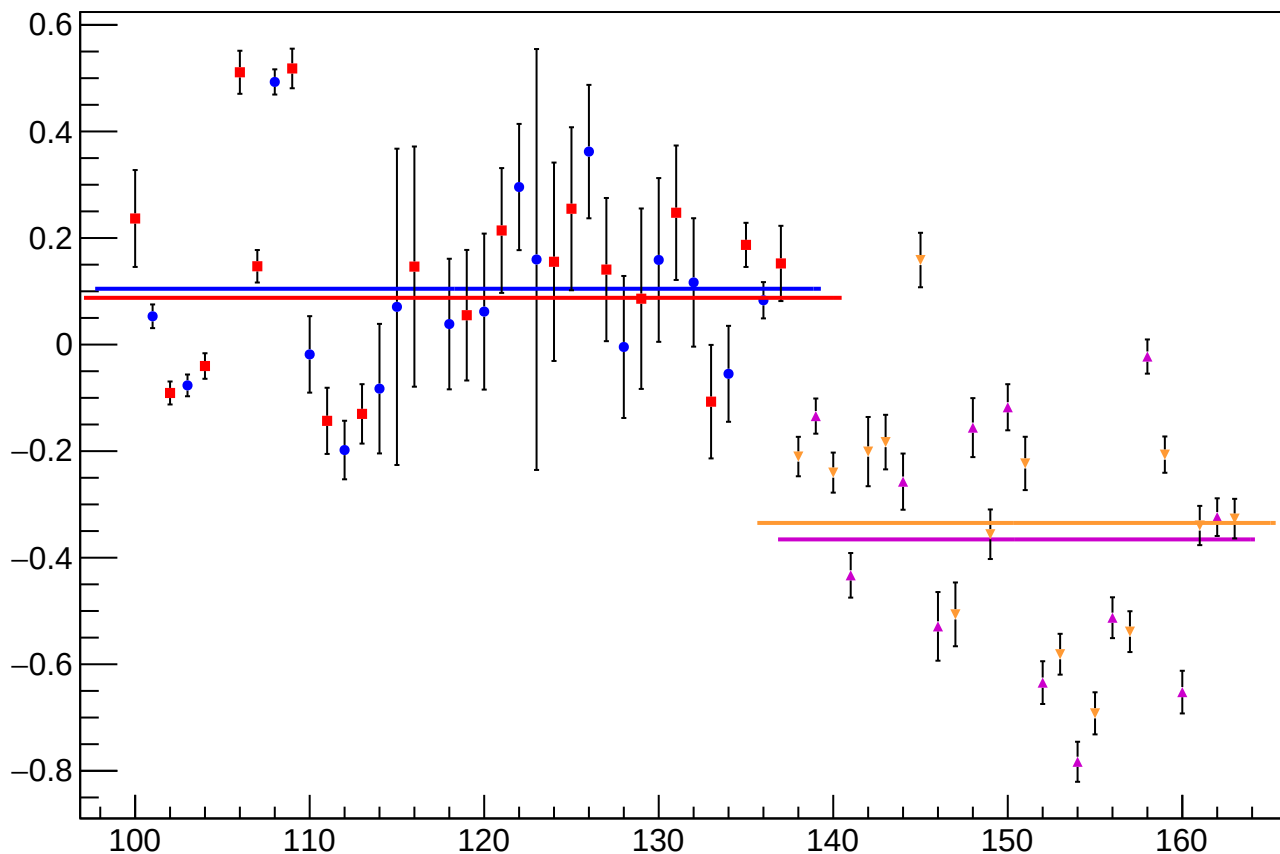
Left In:  $66.433 \pm 0.261$   $\chi^2/\text{NDF}$ : 1899.7/11

+ sign  $34.306 \pm 0.173$   $\chi^2/\text{NDF}$ : 56552.7/30

All:  $34.598 \pm 0.127$   $\chi^2/\text{NDF}$ : 103826.6/61

- sign  $34.937 \pm 0.186$   $\chi^2/\text{NDF}$ : 47267.8/30

# reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}$ : 400.7/16

Left Out:  $-0.335 \pm 0.011$   $\chi^2/\text{NDF}$ : 303.0/13

Right Out:  $0.088 \pm 0.011$   $\chi^2/\text{NDF}$ : 391.0/18

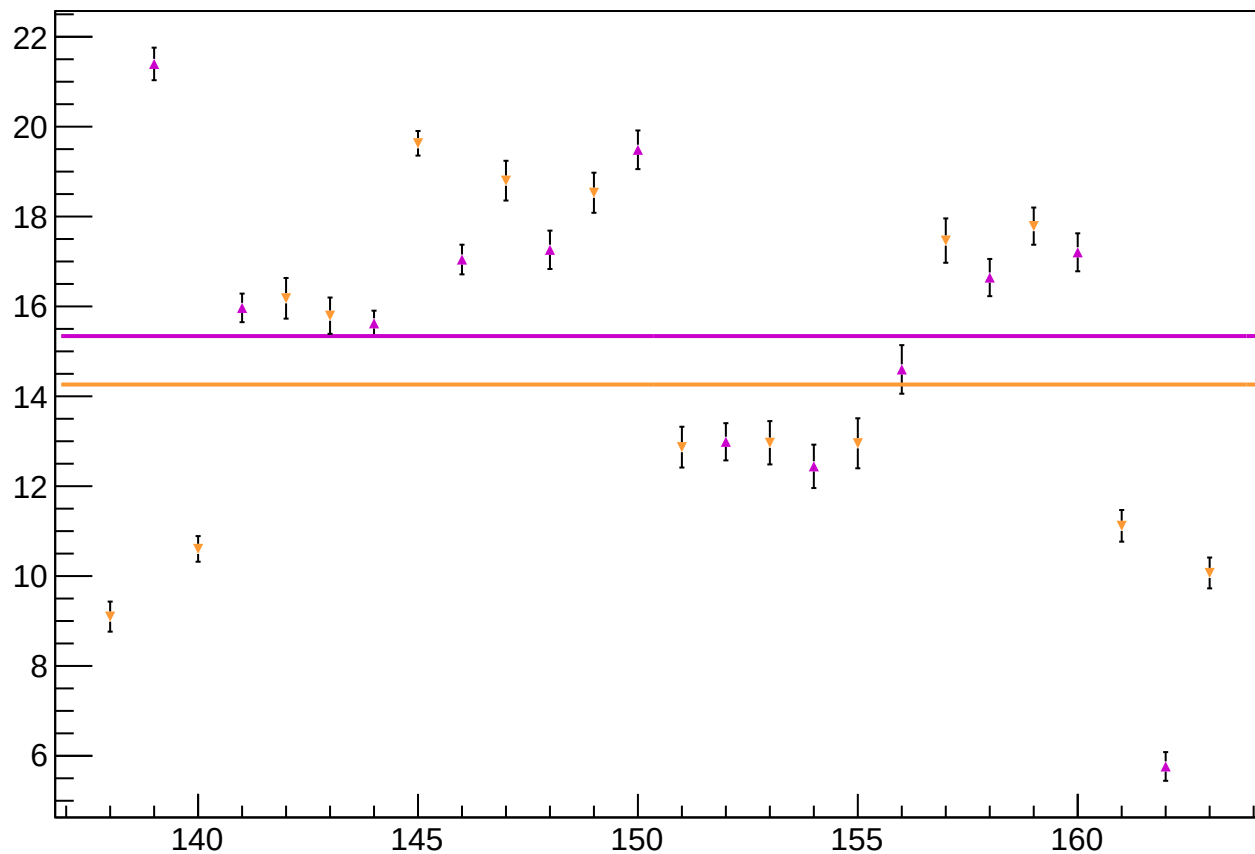
Left In:  $-0.366 \pm 0.012$   $\chi^2/\text{NDF}$ : 459.5/11

+ sign  $-0.111 \pm 0.008$   $\chi^2/\text{NDF}$ : 1482.0/30

All:  $-0.118 \pm 0.006$   $\chi^2/\text{NDF}$ : 3134.0/61

- sign  $-0.126 \pm 0.008$   $\chi^2/\text{NDF}$ : 1650.2/30

# reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.262+/-0.103  $\chi^2/\text{NDF}$ :1381.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

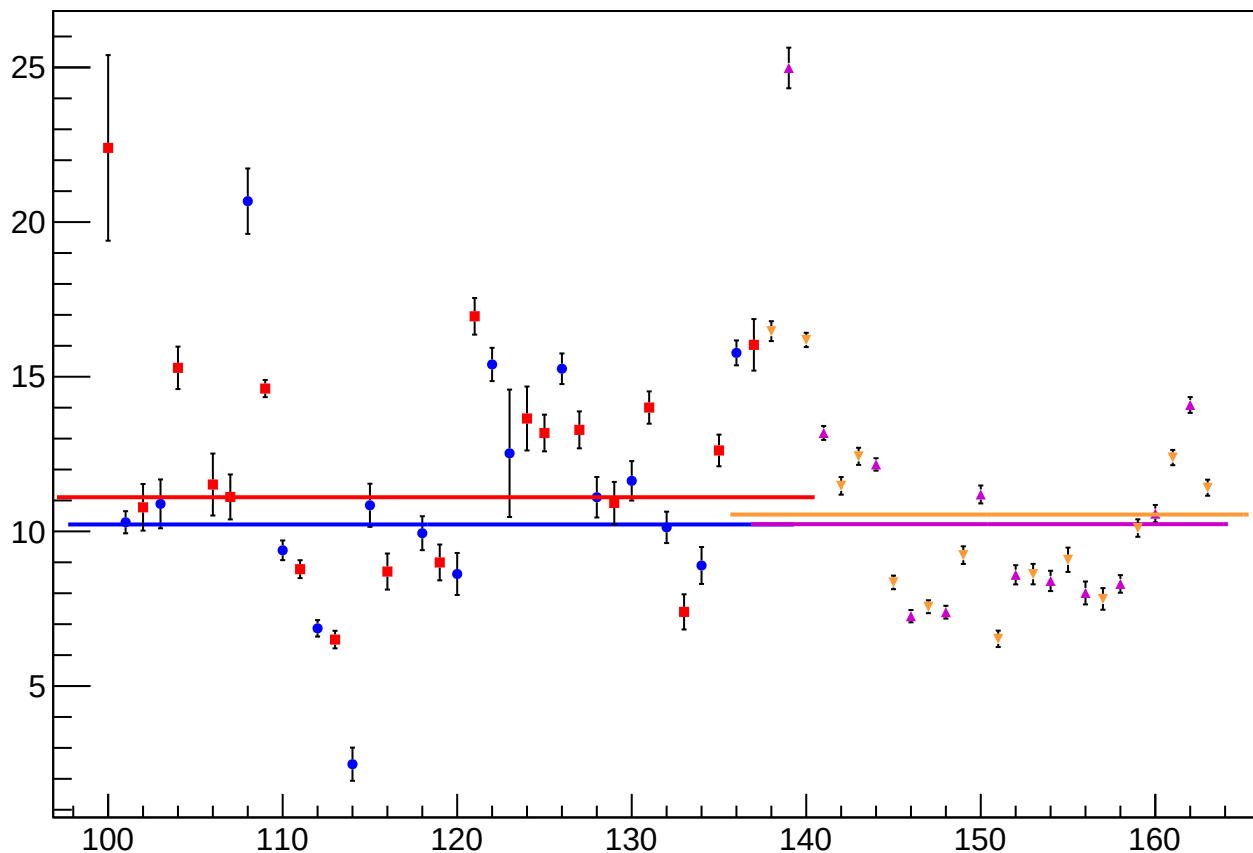
Left In: 15.340+/-0.108  $\chi^2/\text{NDF}$ :1423.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 14.772+/-0.075  $\chi^2/\text{NDF}$ : 2856.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug



Right In:  $10.224 \pm 0.119$   $\chi^2/\text{NDF}$ : 877.6/16

Left Out:  $10.544 \pm 0.072$   $\chi^2/\text{NDF}$ : 1722.0/13

Right Out:  $11.104 \pm 0.116$   $\chi^2/\text{NDF}$ : 817.2/18

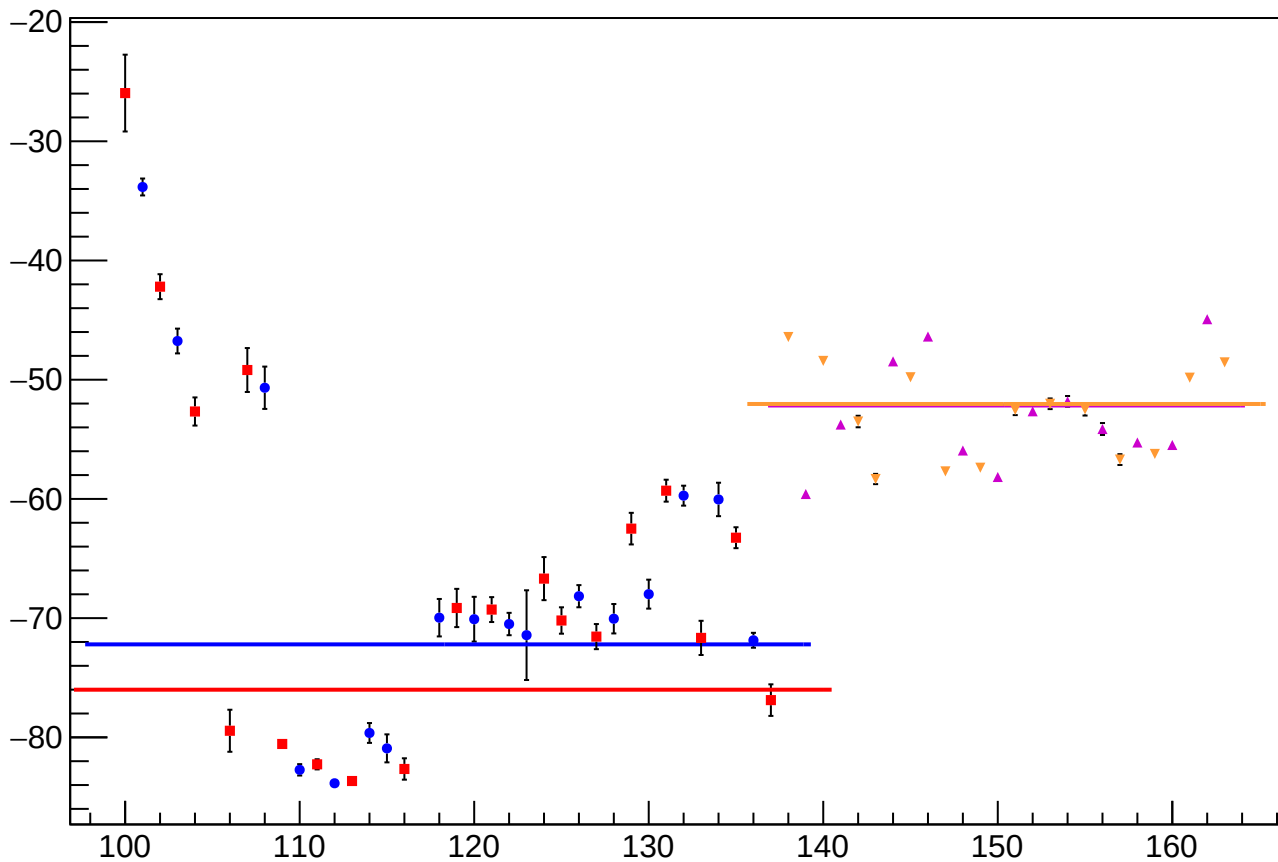
Left In:  $10.233 \pm 0.076$   $\chi^2/\text{NDF}$ : 1563.3/11

+ sign  $10.458 \pm 0.062$   $\chi^2/\text{NDF}$ : 2604.9/30

All:  $10.475 \pm 0.044$   $\chi^2/\text{NDF}$ : 5024.8/61

- sign  $10.492 \pm 0.063$   $\chi^2/\text{NDF}$ : 2419.8/30

# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug



Right In:  $-72.201 \pm 0.198$   $\chi^2/\text{NDF}$ : 5566.9/16

Left Out:  $-52.036 \pm 0.103$   $\chi^2/\text{NDF}$ : 1394.8/13

Right Out:  $-76.003 \pm 0.181$   $\chi^2/\text{NDF}$ : 3465.4/18

Left In:  $-52.163 \pm 0.107$   $\chi^2/\text{NDF}$ : 1885.3/11

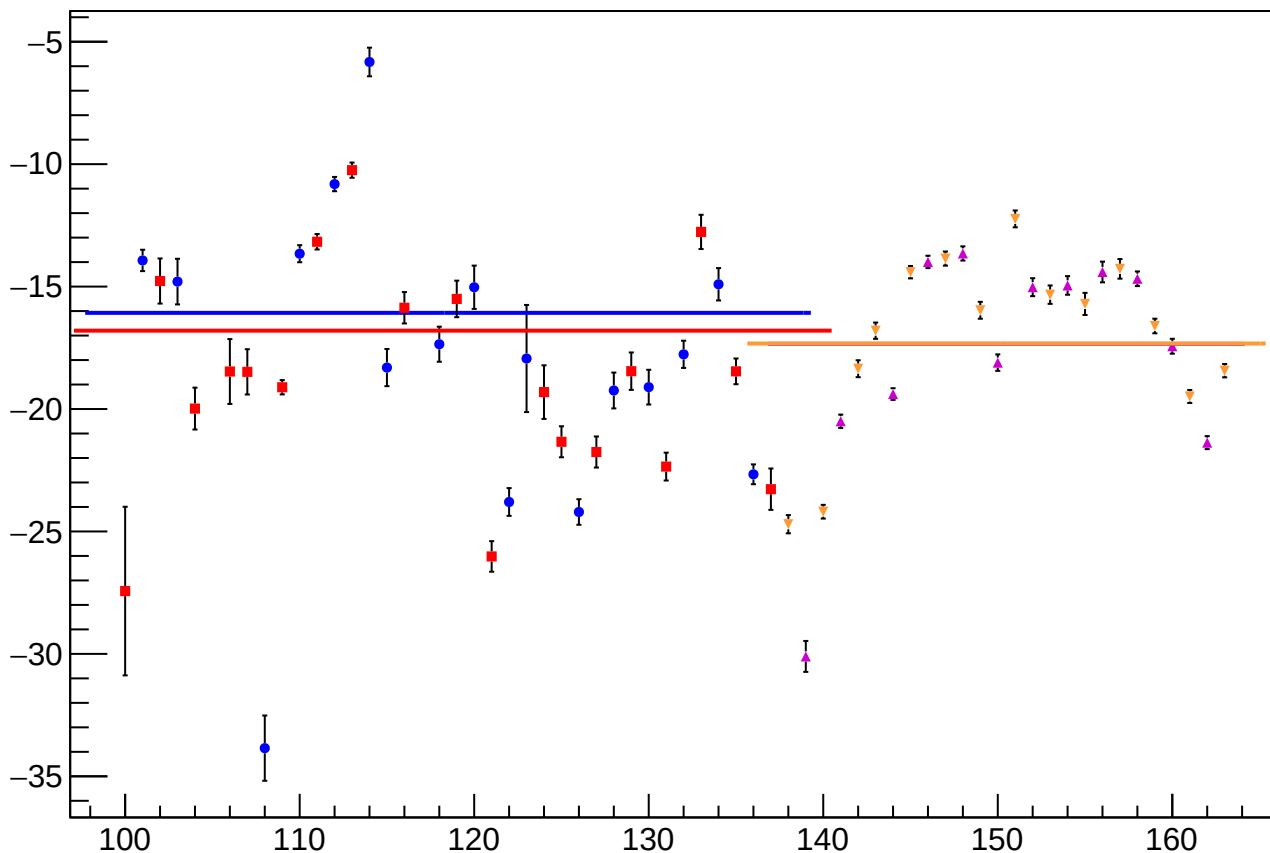
+ sign  $-56.317 \pm 0.091$   $\chi^2/\text{NDF}$ : 15157.4/30

All:  $-57.306 \pm 0.065$   $\chi^2/\text{NDF}$ : 33628.3/61

- sign  $-58.313 \pm 0.092$   $\chi^2/\text{NDF}$ : 18233.0/30



# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug



Right In:  $-16.072 \pm 0.132$   $\chi^2/\text{NDF}$ : 1640.9/16

Left Out:  $-17.325 \pm 0.085$   $\chi^2/\text{NDF}$ : 1704.3/13

Right Out:  $-16.799 \pm 0.128$   $\chi^2/\text{NDF}$ : 1215.8/18

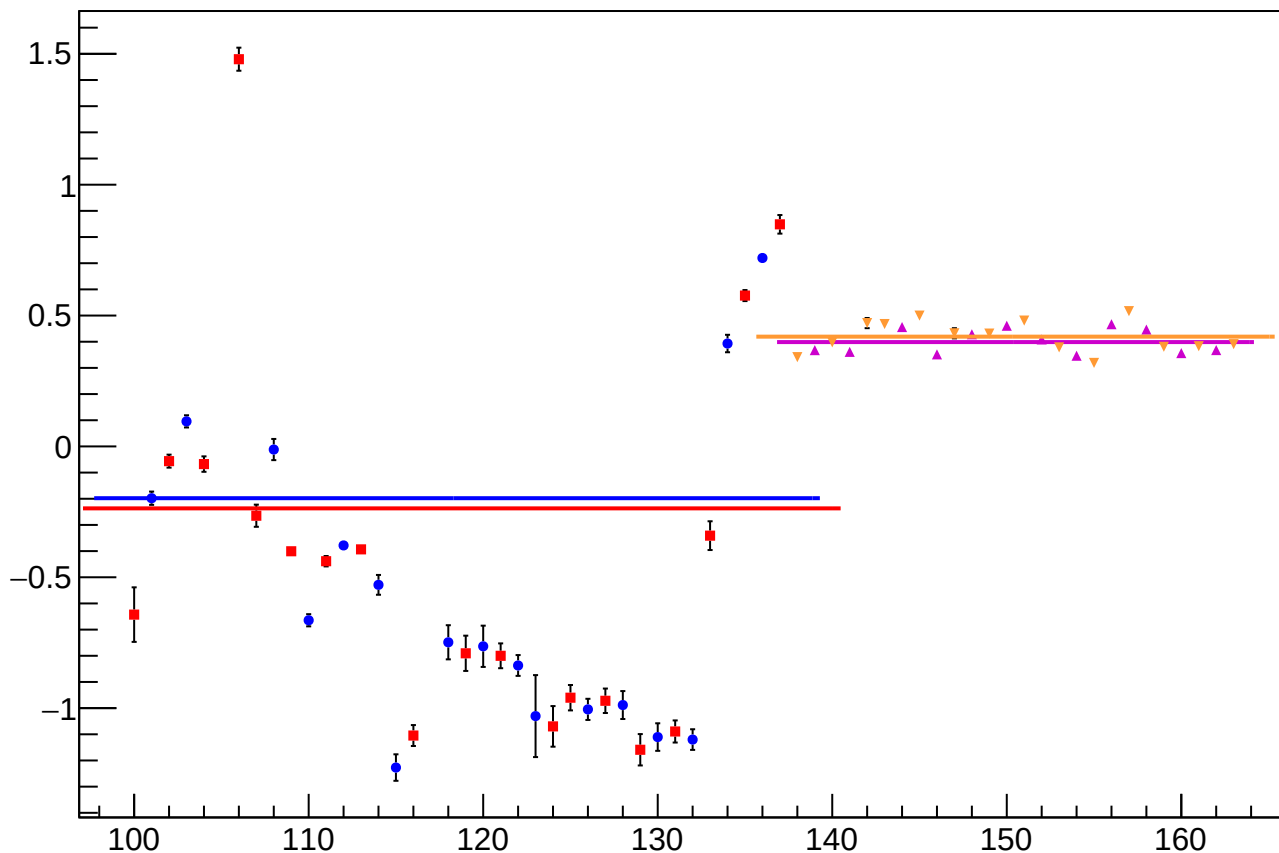
Left In:  $-17.339 \pm 0.089$   $\chi^2/\text{NDF}$ : 1396.3/11

+ sign  $-16.959 \pm 0.071$   $\chi^2/\text{NDF}$ : 3408.8/30

All:  $-17.059 \pm 0.051$   $\chi^2/\text{NDF}$ : 6036.8/61

- sign  $-17.163 \pm 0.073$   $\chi^2/\text{NDF}$ : 2624.0/30

# reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.198 \pm 0.008$   $\chi^2/\text{NDF}$ : 6338.8/16

Left Out:  $0.419 \pm 0.004$   $\chi^2/\text{NDF}$ : 207.1/13

Right Out:  $-0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 6221.9/18

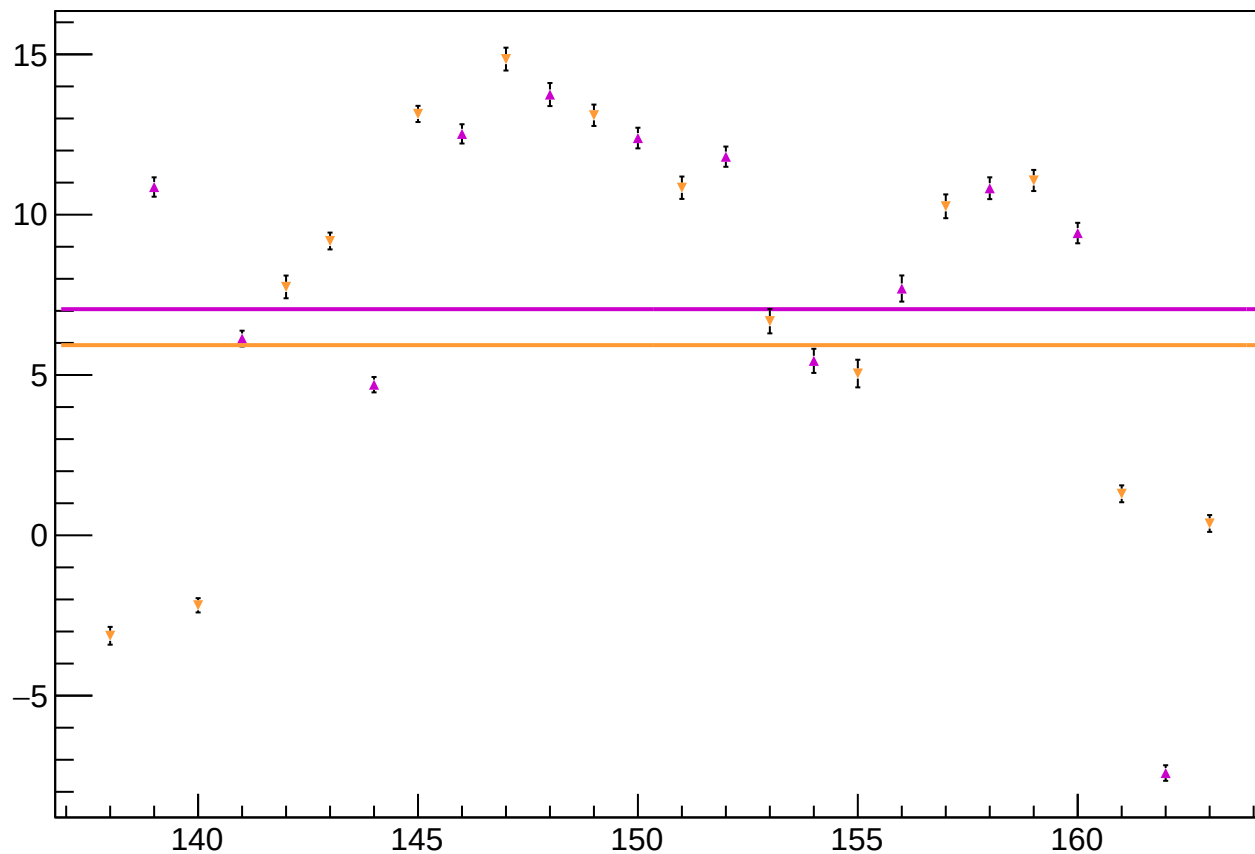
Left In:  $0.399 \pm 0.004$   $\chi^2/\text{NDF}$ : 114.1/11

+ sign  $0.282 \pm 0.004$   $\chi^2/\text{NDF}$ : 11757.2/30

All:  $0.259 \pm 0.003$   $\chi^2/\text{NDF}$ : 24013.6/61

- sign  $0.236 \pm 0.004$   $\chi^2/\text{NDF}$ : 12175.5/30

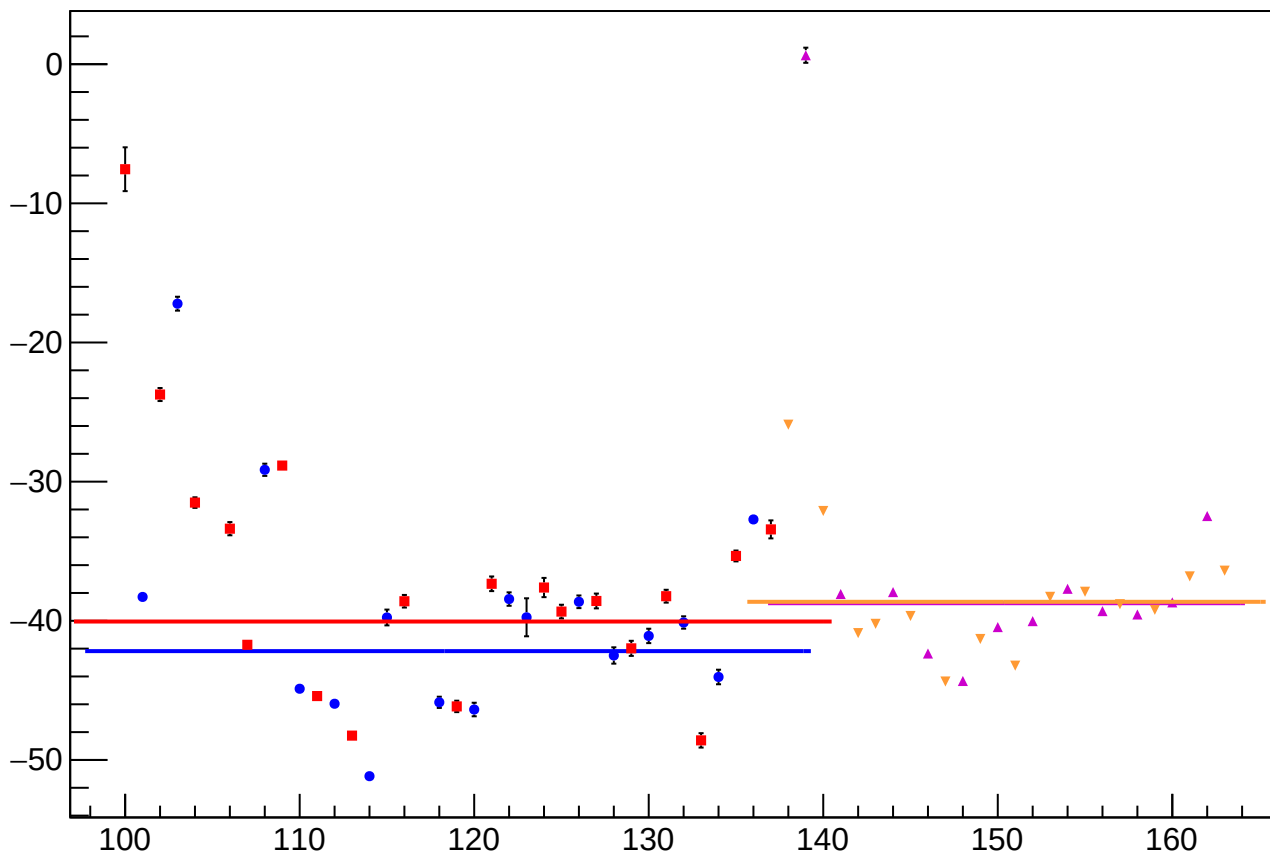
# reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.931 $\pm$ 0.081  $\chi^2$ /NDF:5823.4/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 7.053 $\pm$ 0.087  $\chi^2$ /NDF:5212.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 6.449 $\pm$ 0.059  $\chi^2$ /NDF: 11124.8/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug



Right In:  $-42.179 \pm 0.078$   $\chi^2/\text{NDF}$ : 6573.8/16

Left Out:  $-38.635 \pm 0.057$   $\chi^2/\text{NDF}$ : 5767.6/13

Right Out:  $-40.052 \pm 0.073$   $\chi^2/\text{NDF}$ : 11313.5/18

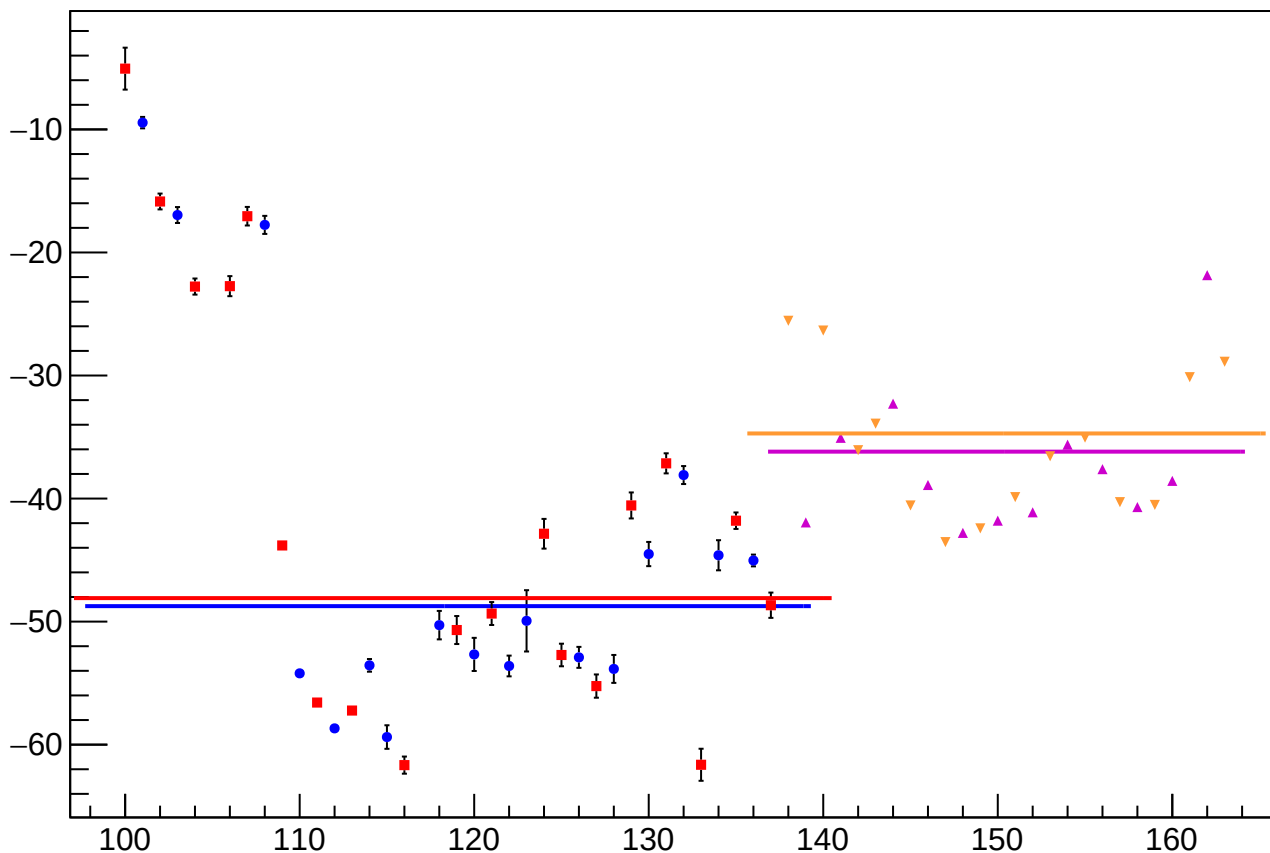
Left In:  $-38.736 \pm 0.061$   $\chi^2/\text{NDF}$ : 7820.6/11

+ sign  $-39.860 \pm 0.046$   $\chi^2/\text{NDF}$ : 13700.0/30

All:  $-39.579 \pm 0.033$   $\chi^2/\text{NDF}$ : 33102.8/61

- sign  $-39.283 \pm 0.047$   $\chi^2/\text{NDF}$ : 19325.1/30

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug



Right In:  $-48.743 \pm 0.124$   $\chi^2/\text{NDF}: 14658.5/16$

Left Out:  $-34.709 \pm 0.080$   $\chi^2/\text{NDF}: 5738.6/13$

Right Out:  $-48.091 \pm 0.107$   $\chi^2/\text{NDF}: 11731.5/18$

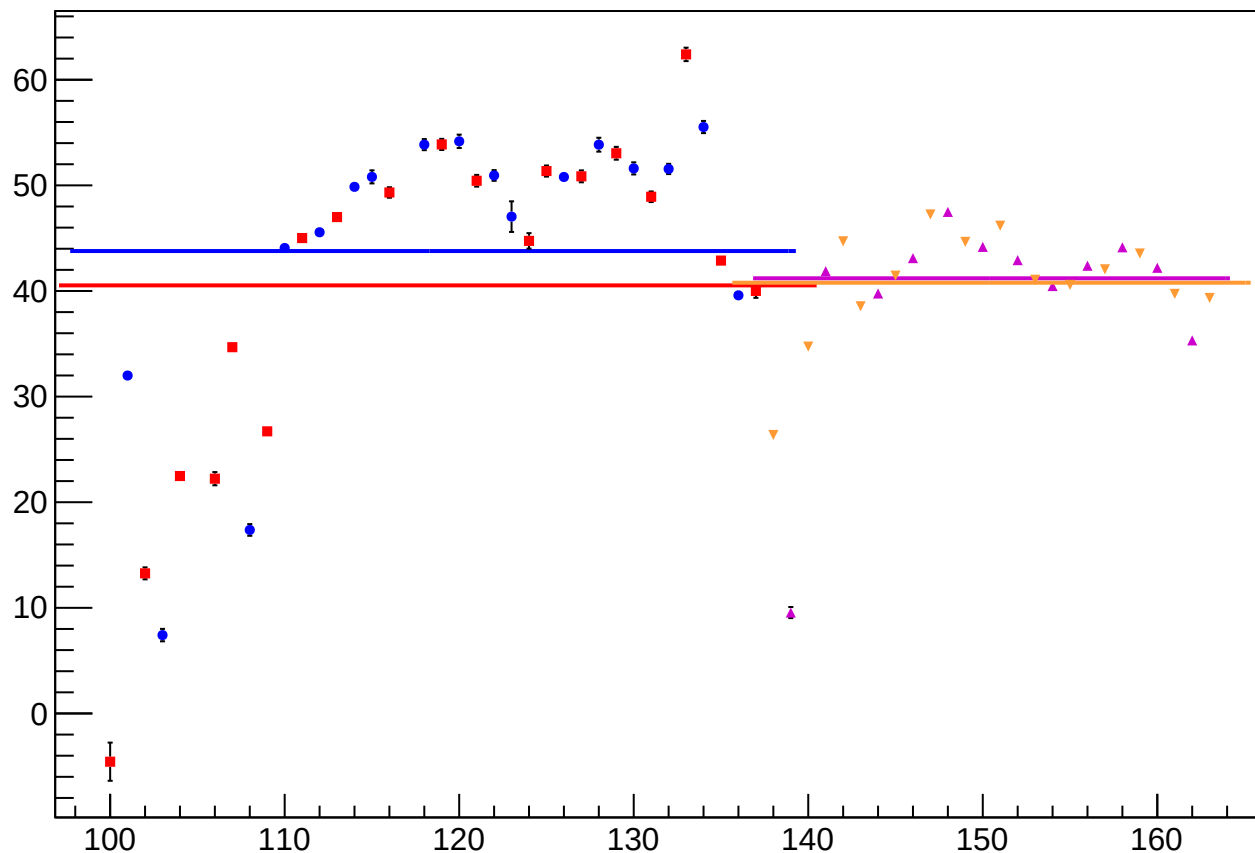
Left In:  $-36.187 \pm 0.085$   $\chi^2/\text{NDF}: 5706.6/11$

+ sign  $-38.826 \pm 0.067$   $\chi^2/\text{NDF}: 29386.4/30$

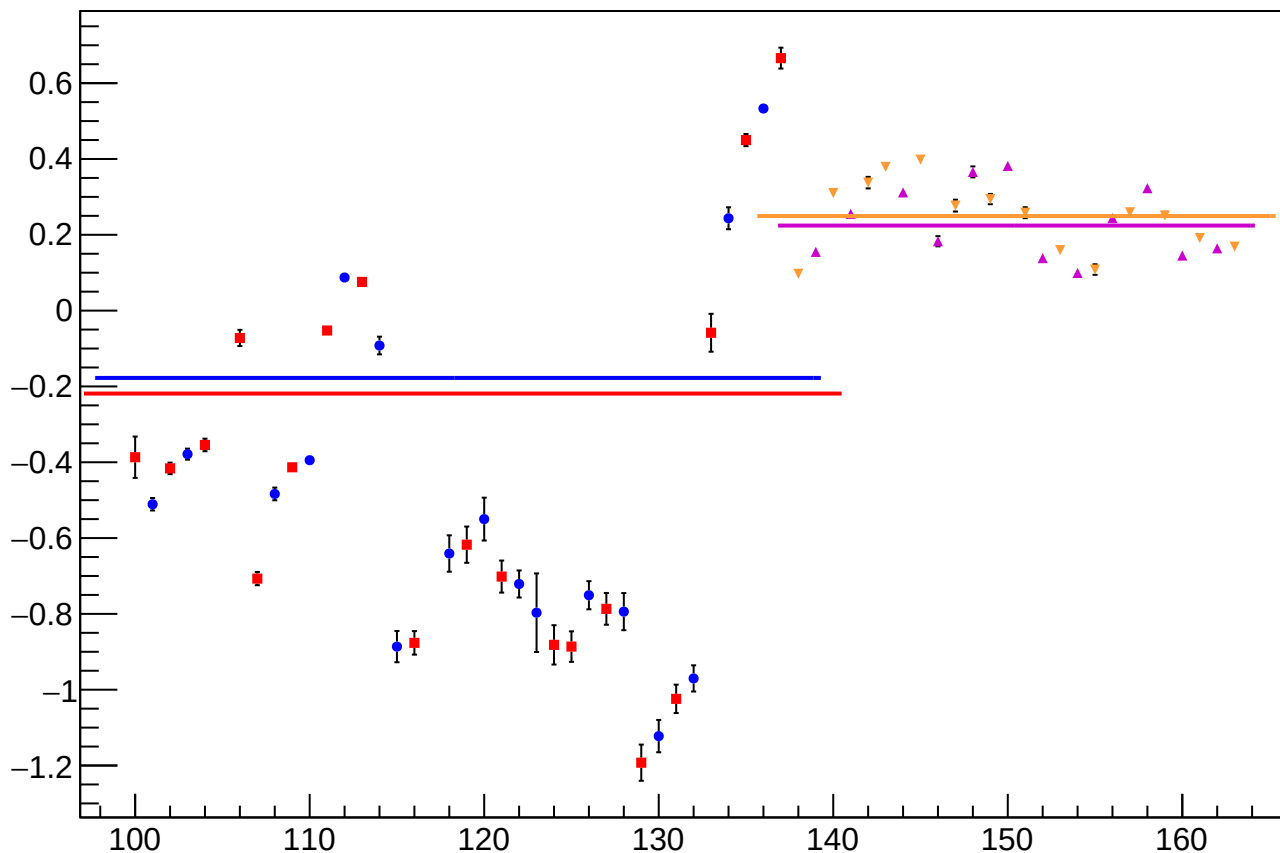
All:  $-39.827 \pm 0.047$   $\chi^2/\text{NDF}: 54800.2/61$

- sign  $-40.810 \pm 0.067$   $\chi^2/\text{NDF}: 24976.7/30$

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7375.8/16

Left Out:  $0.249 \pm 0.003$   $\chi^2/\text{NDF}$ : 835.9/13

Right Out:  $-0.219 \pm 0.004$   $\chi^2/\text{NDF}$ : 7470.0/18

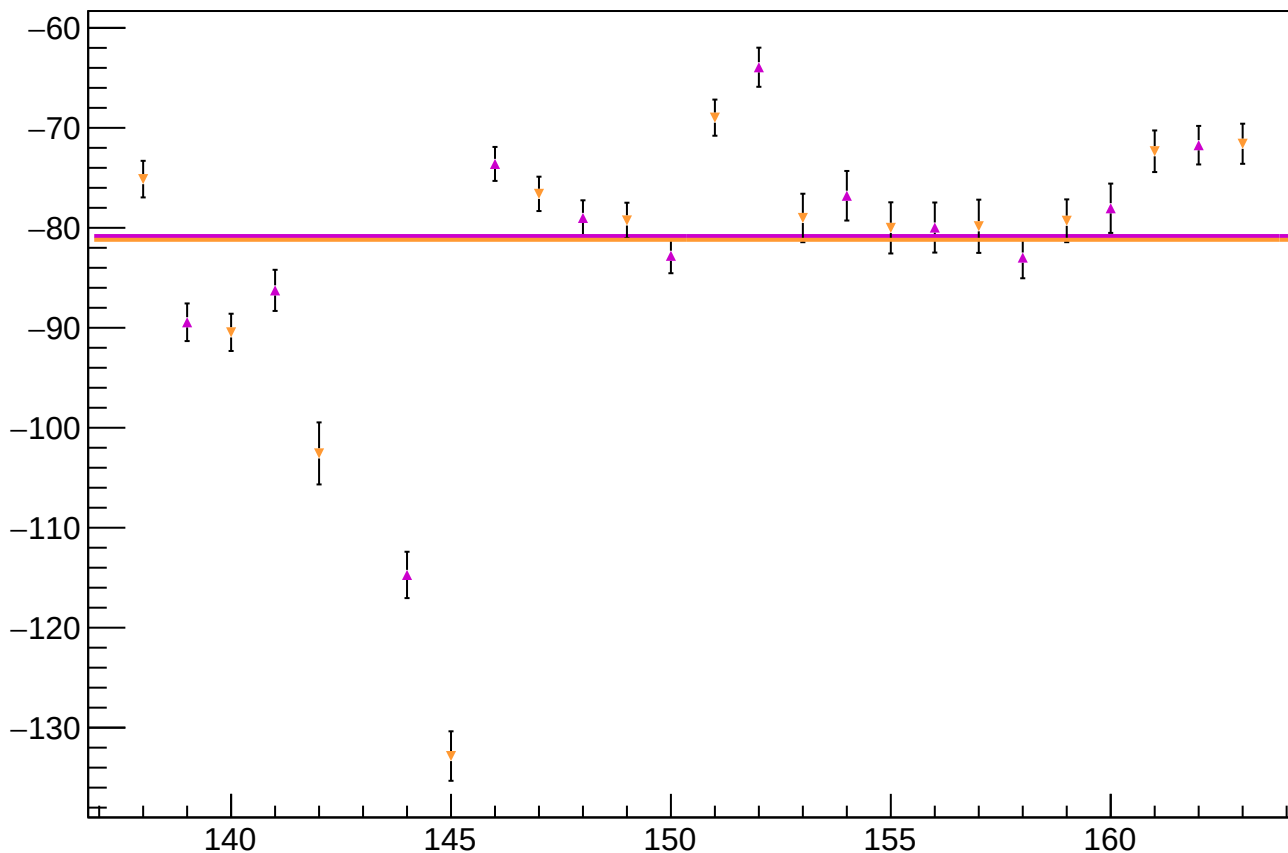
Left In:  $0.224 \pm 0.003$   $\chi^2/\text{NDF}$ : 694.2/11

+ sign  $0.122 \pm 0.003$   $\chi^2/\text{NDF}$ : 13682.6/30

All:  $0.089 \pm 0.002$   $\chi^2/\text{NDF}$ : 28757.0/61

- sign  $0.057 \pm 0.003$   $\chi^2/\text{NDF}$ : 14770.9/30

# reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug

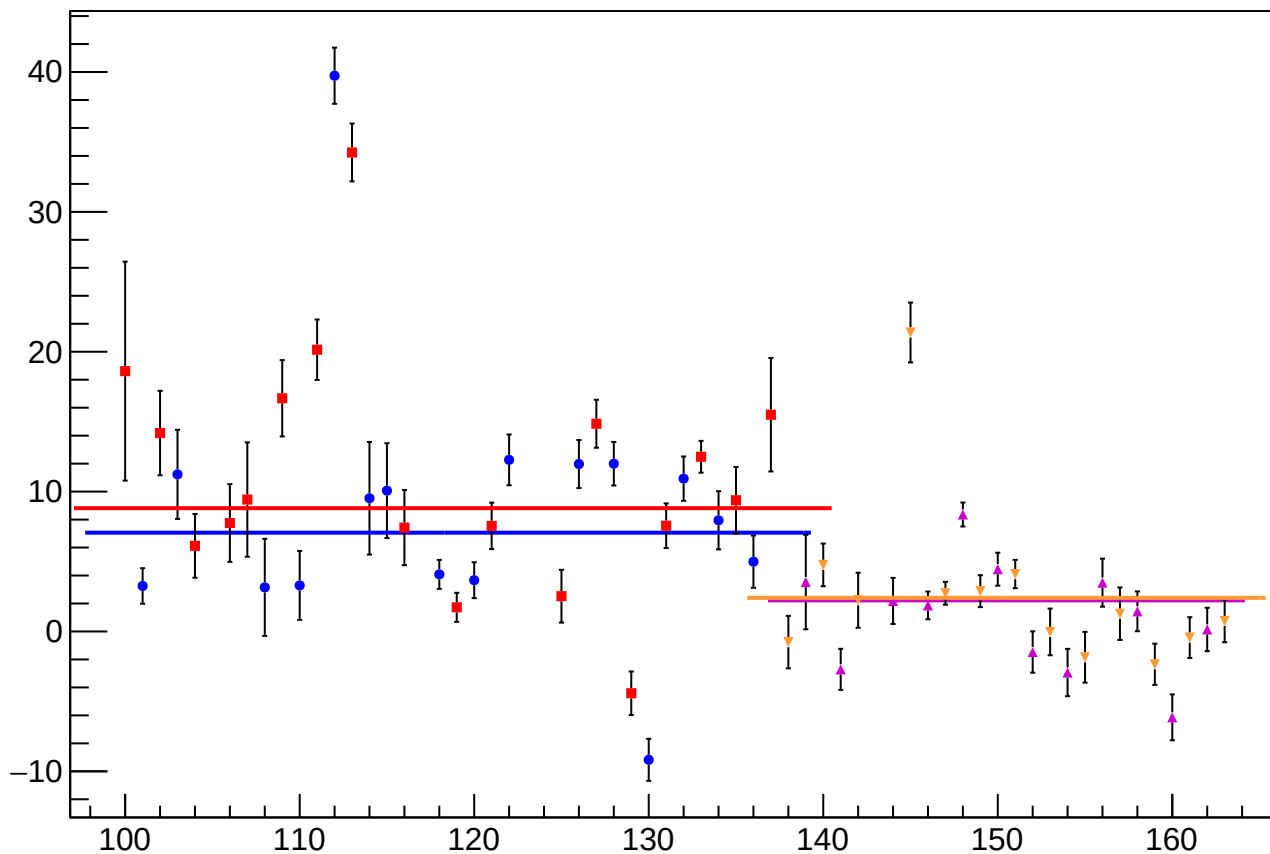


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -81.198+/-0.580  $\chi^2/\text{NDF}$ : 615.4/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -80.822+/-0.582  $\chi^2/\text{NDF}$ : 364.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -81.011+/-0.411  $\chi^2/\text{NDF}$ : 979.6/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.063 \pm 0.434$   $\chi^2/\text{NDF}$ : 446.9/15

Left Out:  $2.402 \pm 0.385$   $\chi^2/\text{NDF}$ : 110.4/12

Right Out:  $8.816 \pm 0.449$   $\chi^2/\text{NDF}$ : 350.4/17

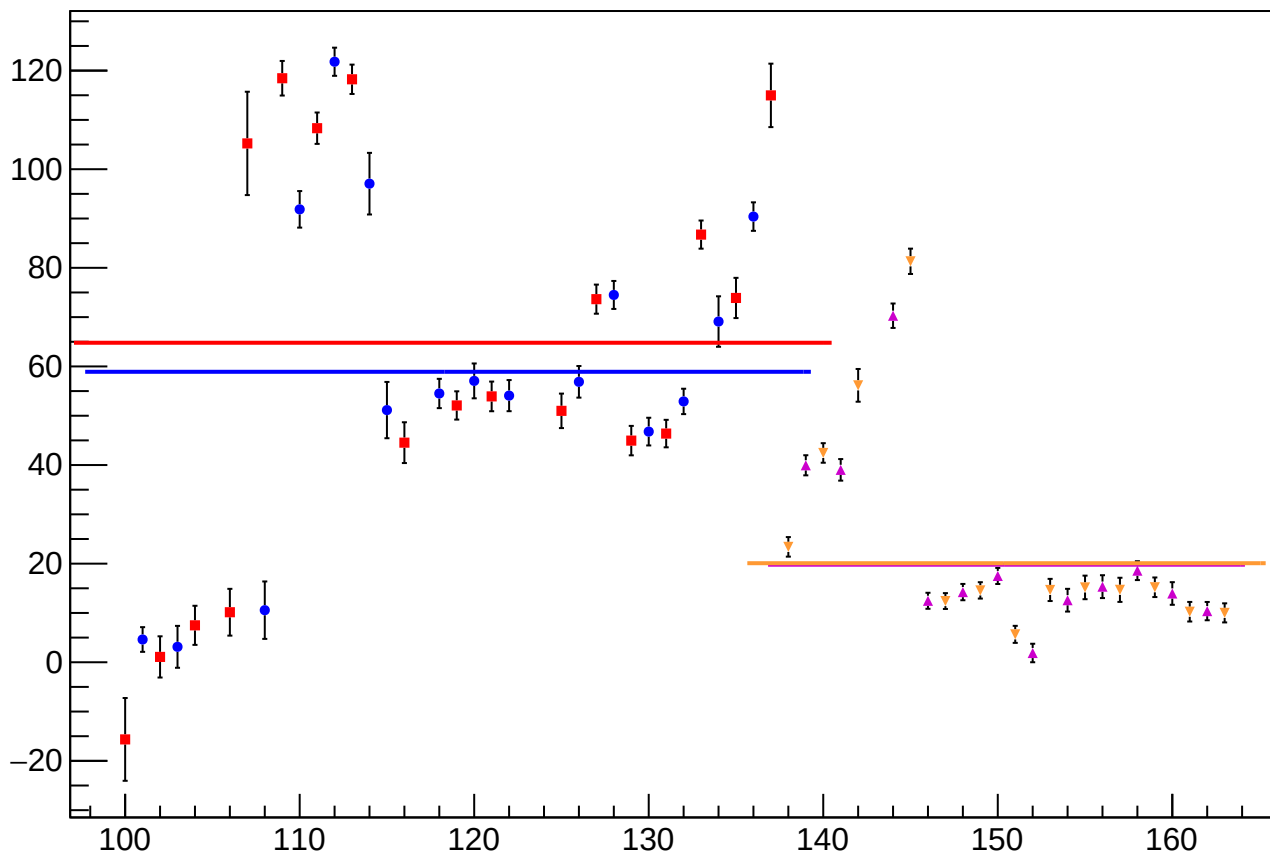
Left In:  $2.225 \pm 0.394$   $\chi^2/\text{NDF}$ : 110.7/11

+ sign  $4.456 \pm 0.288$   $\chi^2/\text{NDF}$ : 621.9/28

All:  $4.765 \pm 0.206$   $\chi^2/\text{NDF}$ : 1207.2/58

- sign  $5.091 \pm 0.296$   $\chi^2/\text{NDF}$ : 582.9/29

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug



Right In: 58.913 $\pm$ 0.831  $\chi^2$ /NDF: 1496.7/15

Left Out: 20.089 $\pm$ 0.563  $\chi^2$ /NDF: 992.2/12

Right Out: 64.803 $\pm$ 0.840  $\chi^2$ /NDF: 1718.2/17

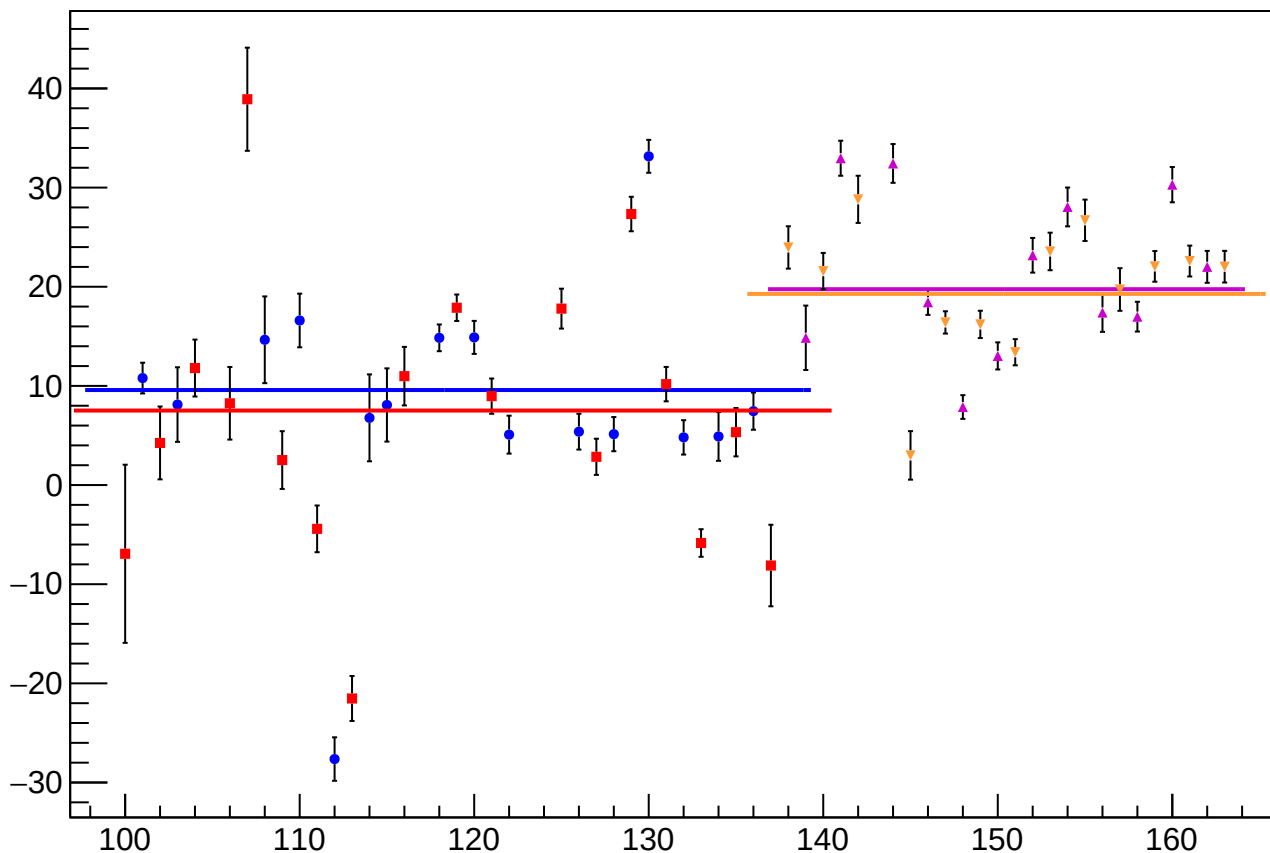
Left In: 19.781 $\pm$ 0.564  $\chi^2$ /NDF: 761.1/11

+ sign 32.306 $\pm$ 0.466  $\chi^2$ /NDF: 3983.3/28

All: 33.031 $\pm$ 0.330  $\chi^2$ /NDF: 8446.8/58

- sign 33.762 $\pm$ 0.468  $\chi^2$ /NDF: 4458.7/29

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug



Right In:  $9.583 \pm 0.501$   $\chi^2/\text{NDF}$ : 554.4/15

Left Out:  $19.277 \pm 0.461$   $\chi^2/\text{NDF}$ : 126.8/12

Right Out:  $7.516 \pm 0.516$   $\chi^2/\text{NDF}$ : 569.8/17

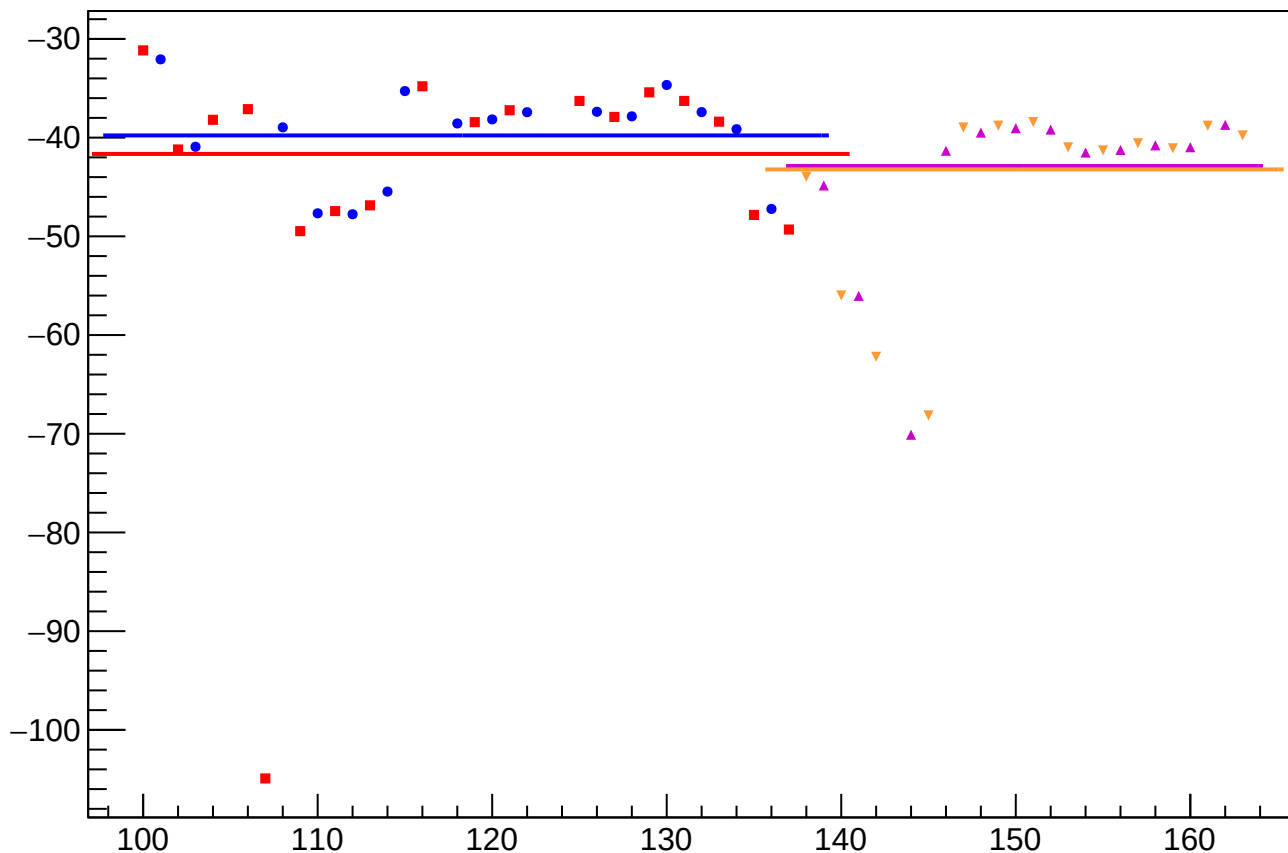
Left In:  $19.754 \pm 0.470$   $\chi^2/\text{NDF}$ : 287.9/11

+ sign  $14.832 \pm 0.339$   $\chi^2/\text{NDF}$ : 883.8/28

All:  $14.524 \pm 0.243$   $\chi^2/\text{NDF}$ : 2050.9/58

- sign  $14.201 \pm 0.347$   $\chi^2/\text{NDF}$ : 1165.4/29

# reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug



Right In:  $-39.777 \pm 0.031$   $\chi^2/\text{NDF}$ : 26158.0/15

Left Out:  $-43.220 \pm 0.022$   $\chi^2/\text{NDF}$ : 122013.2/12

Right Out:  $-41.651 \pm 0.031$   $\chi^2/\text{NDF}$ : 94457.5/17

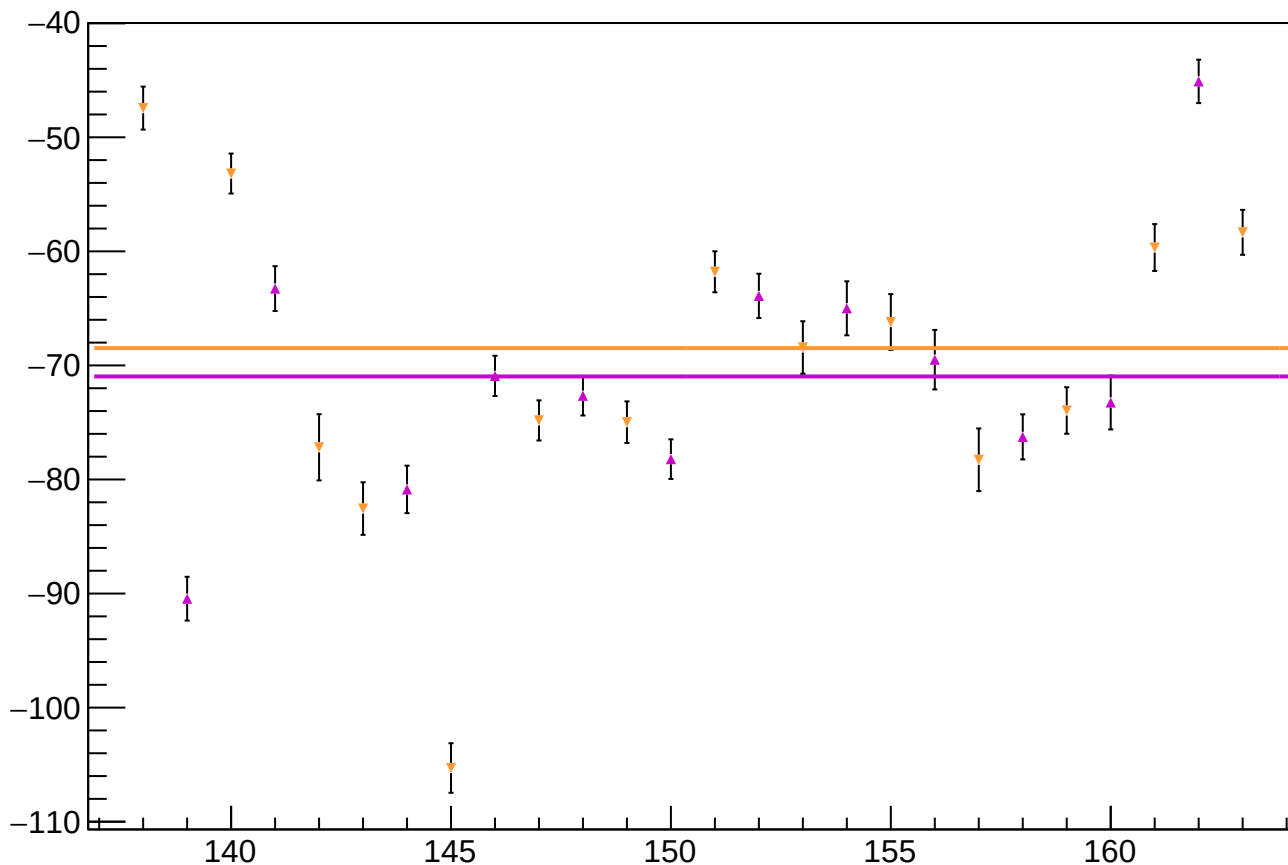
Left In:  $-42.874 \pm 0.022$   $\chi^2/\text{NDF}$ : 99123.2/11

+ sign  $-42.044 \pm 0.018$   $\chi^2/\text{NDF}$ : 156258.1/28

All:  $-42.254 \pm 0.013$   $\chi^2/\text{NDF}$ : 351128.5/58

- sign  $-42.463 \pm 0.018$   $\chi^2/\text{NDF}$ : 194602.0/29

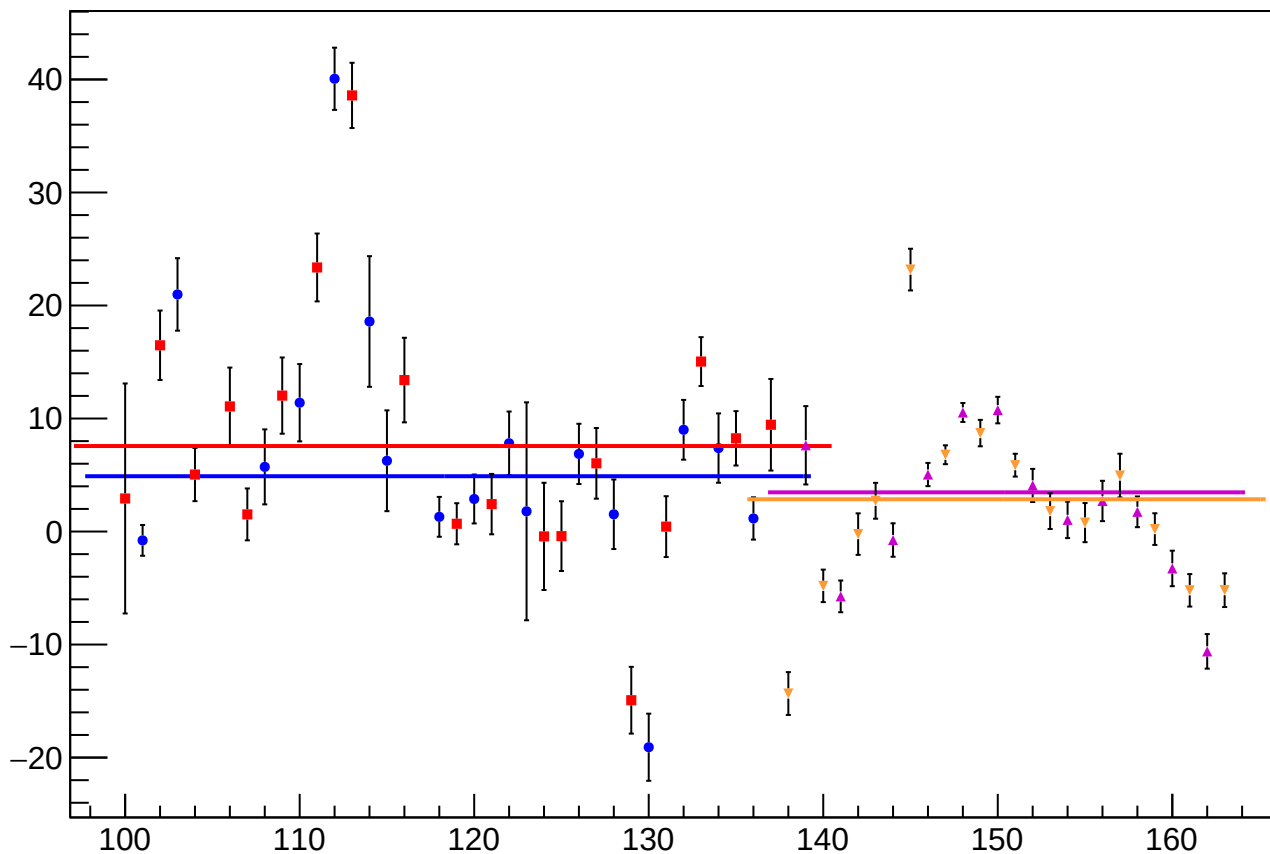
# reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -68.484+/-0.552  $\chi^2/\text{NDF}$ : 639.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -70.967+/-0.573  $\chi^2/\text{NDF}$ : 372.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -69.680+/-0.397  $\chi^2/\text{NDF}$ : 1021.1/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.894 \pm 0.621$   $\chi^2/\text{NDF}$ : 295.4/16

Left Out:  $2.856 \pm 0.369$   $\chi^2/\text{NDF}$ : 358.3/13

Right Out:  $7.565 \pm 0.652$   $\chi^2/\text{NDF}$ : 270.2/18

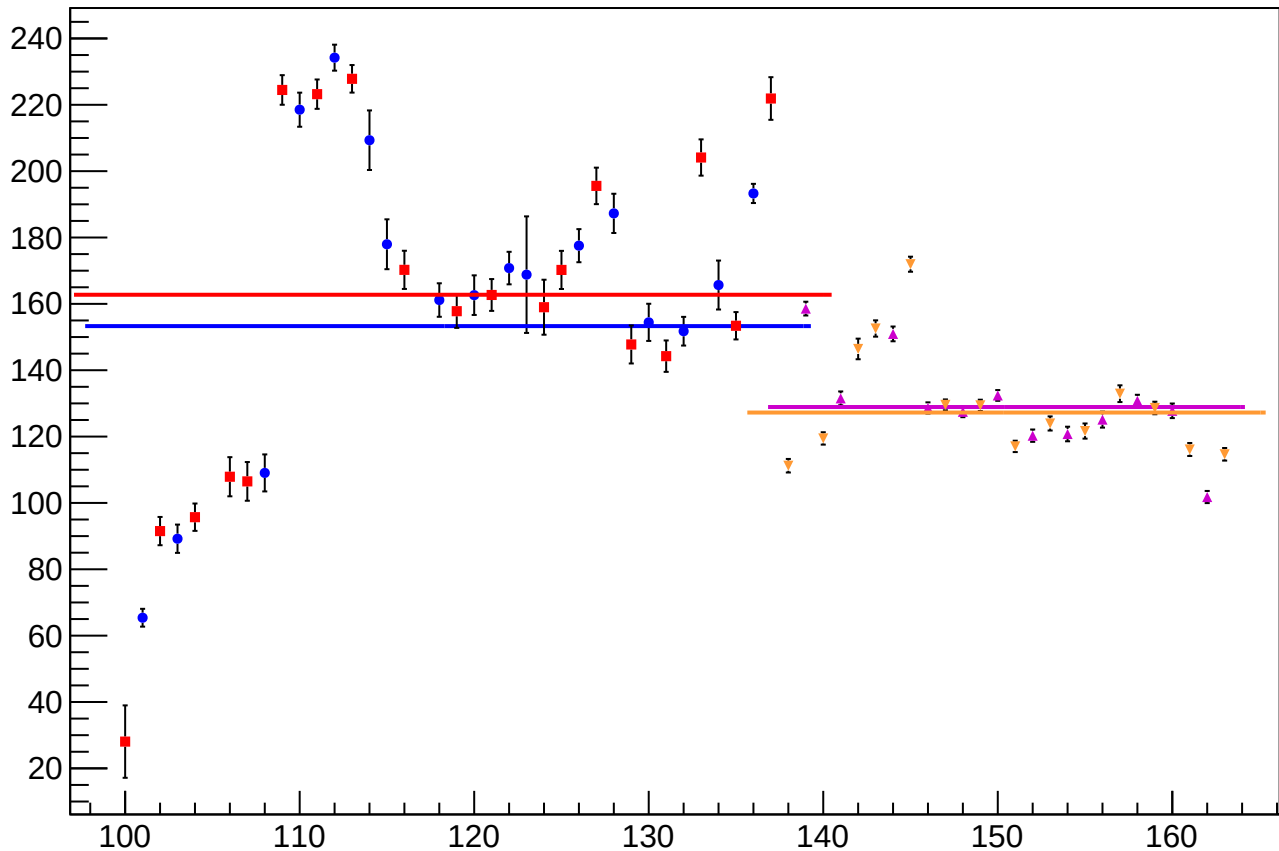
Left In:  $3.467 \pm 0.387$   $\chi^2/\text{NDF}$ : 271.6/11

+ sign  $3.387 \pm 0.317$   $\chi^2/\text{NDF}$ : 661.6/30

All:  $3.934 \pm 0.230$   $\chi^2/\text{NDF}$ : 1238.9/61

- sign  $4.536 \pm 0.333$   $\chi^2/\text{NDF}$ : 571.0/30

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug



Right In: 153.298 $\pm$ 1.145  $\chi^2$ /NDF: 2266.8/16

Left Out: 127.245 $\pm$ 0.540  $\chi^2$ /NDF: 740.3/13

Right Out: 162.747 $\pm$ 1.177  $\chi^2$ /NDF: 1708.7/18

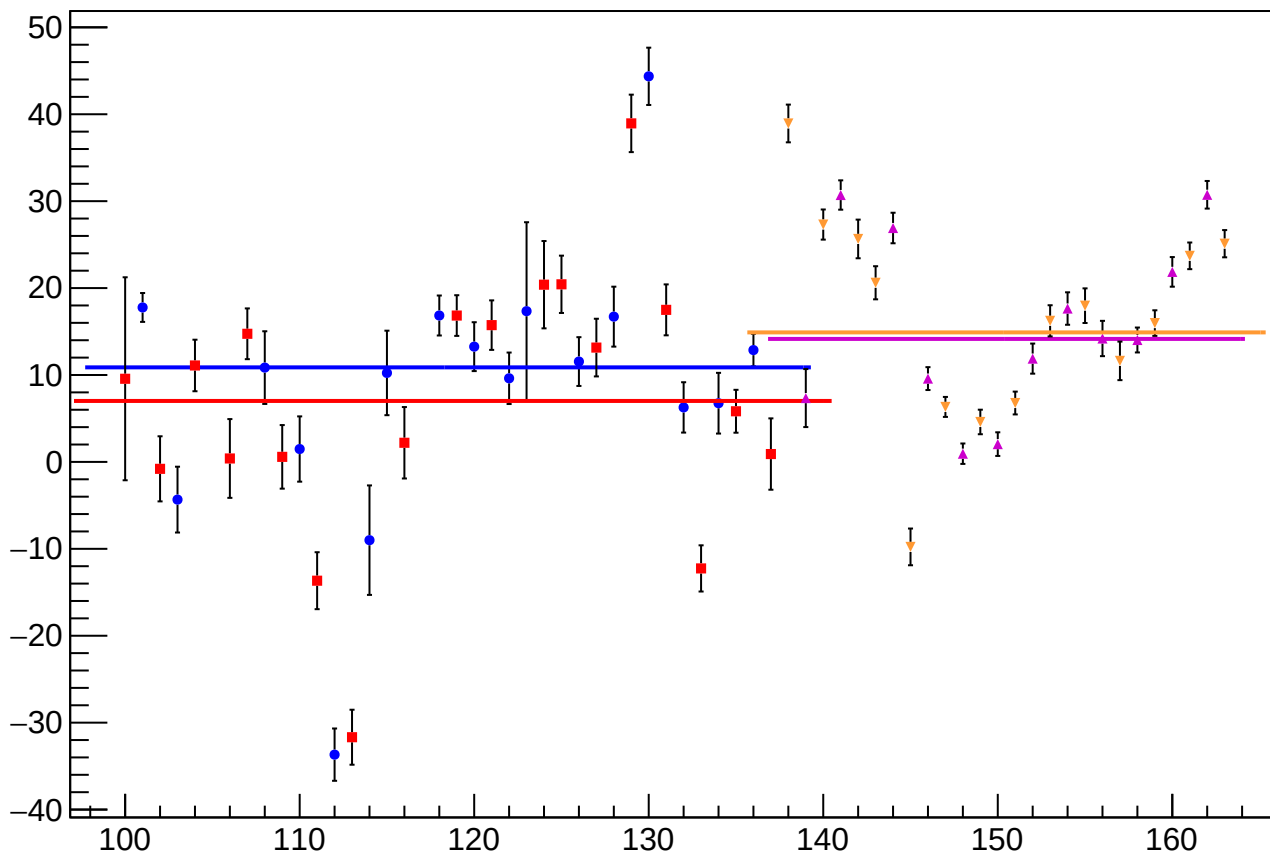
Left In: 128.910 $\pm$ 0.555  $\chi^2$ /NDF: 567.0/11

+ sign 131.986 $\pm$ 0.488  $\chi^2$ /NDF: 3430.7/30

All: 133.486 $\pm$ 0.350  $\chi^2$ /NDF: 6402.3/61

- sign 135.071 $\pm$ 0.502  $\chi^2$ /NDF: 2952.1/30

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug



Right In:  $10.878 \pm 0.713$   $\chi^2/\text{NDF}$ : 388.1/16

Left Out:  $14.901 \pm 0.441$   $\chi^2/\text{NDF}$ : 570.9/13

Right Out:  $7.014 \pm 0.748$   $\chi^2/\text{NDF}$ : 424.5/18

Left In:  $14.151 \pm 0.461$   $\chi^2/\text{NDF}$ : 505.5/11

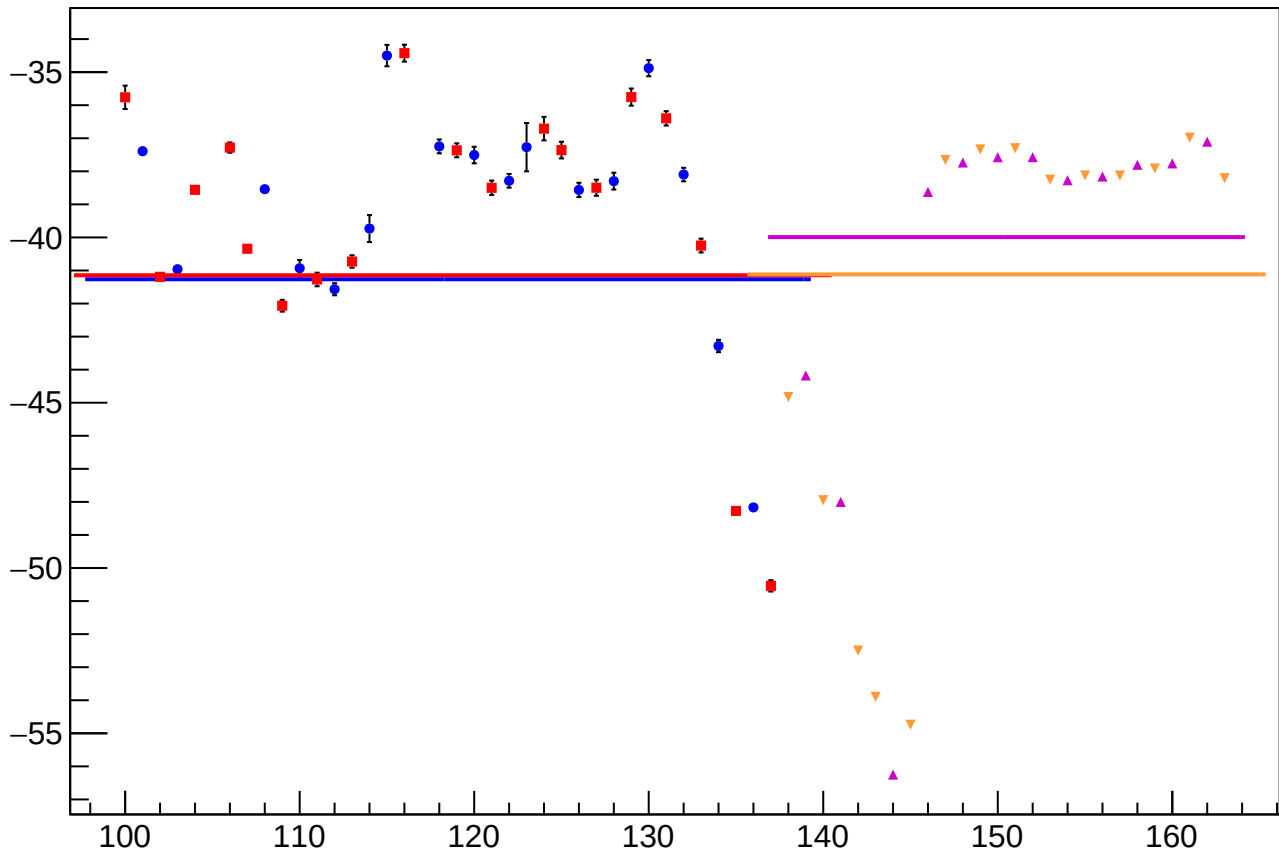
+ sign  $13.789 \pm 0.375$   $\chi^2/\text{NDF}$ : 982.0/30

All:  $13.024 \pm 0.271$   $\chi^2/\text{NDF}$ : 1986.7/61

- sign  $12.185 \pm 0.393$   $\chi^2/\text{NDF}$ : 996.0/30



# reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug



Right In:  $-41.265 \pm 0.038$   $\chi^2/\text{NDF}$ : 12570.1/16

Left Out:  $-41.117 \pm 0.021$   $\chi^2/\text{NDF}$ : 75565.4/13

Right Out:  $-41.144 \pm 0.039$   $\chi^2/\text{NDF}$ : 12218.7/18

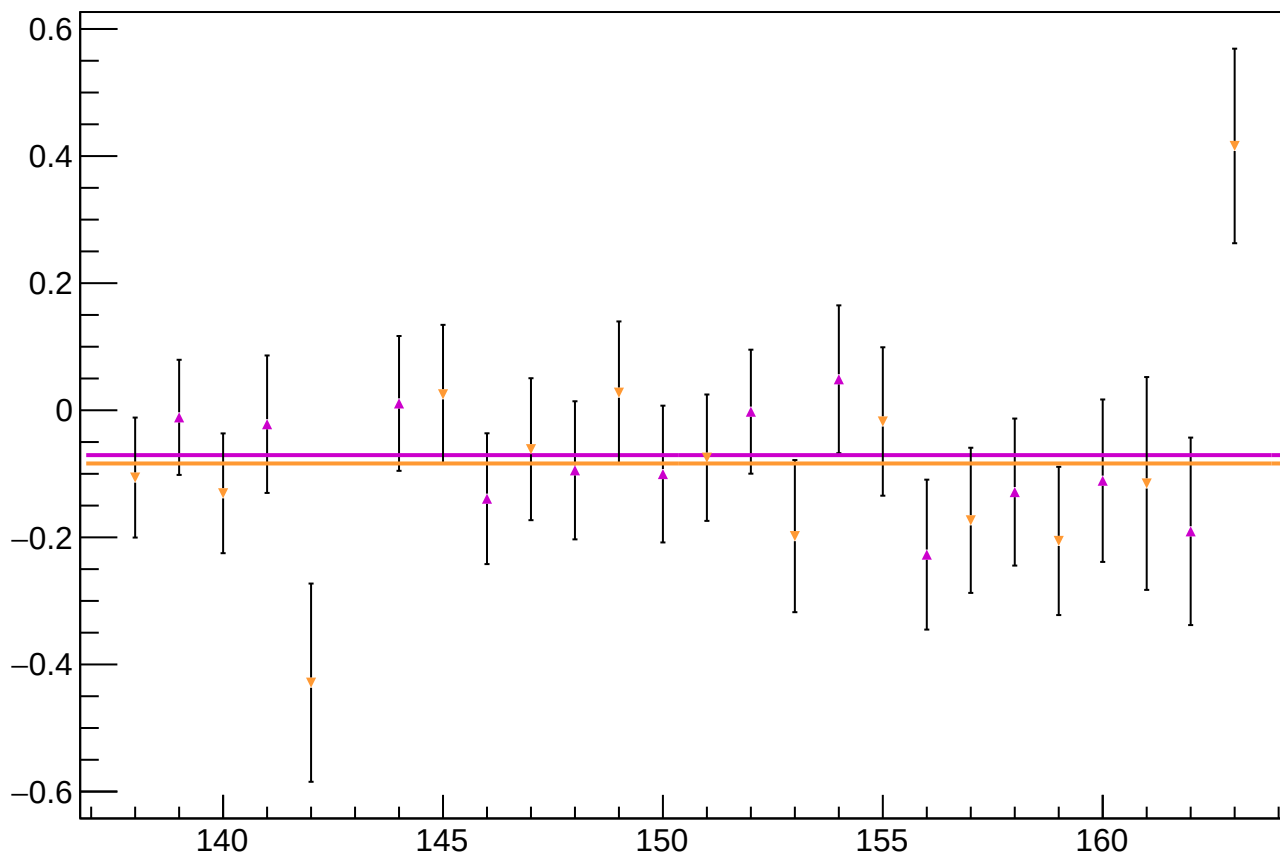
Left In:  $-39.990 \pm 0.022$   $\chi^2/\text{NDF}$ : 48265.5/11

+ sign  $-41.152 \pm 0.019$   $\chi^2/\text{NDF}$ : 88146.8/30

All:  $-40.718 \pm 0.013$   $\chi^2/\text{NDF}$ : 150400.0/61

- sign  $-40.270 \pm 0.019$   $\chi^2/\text{NDF}$ : 61159.8/30

# reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.084 $\pm$ 0.032  $\chi^2$ /NDF: 20.8/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

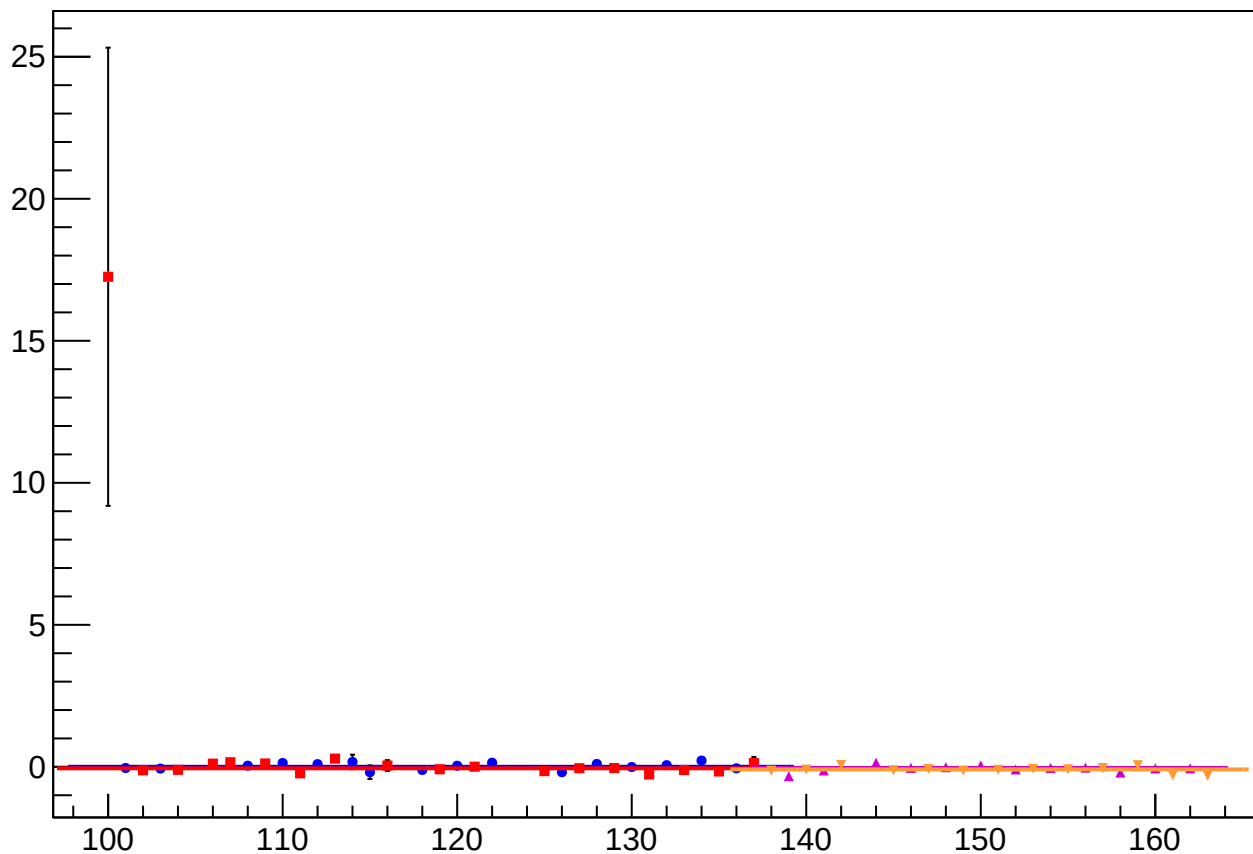
Left In: -0.071 $\pm$ 0.032  $\chi^2$ /NDF: 6.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.077 $\pm$ 0.022  $\chi^2$ /NDF: 27.0/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.002 \pm 0.028$   $\chi^2/\text{NDF}$ : 12.5/15

Left Out:  $-0.090 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.7/12

Right Out:  $-0.051 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.8/17

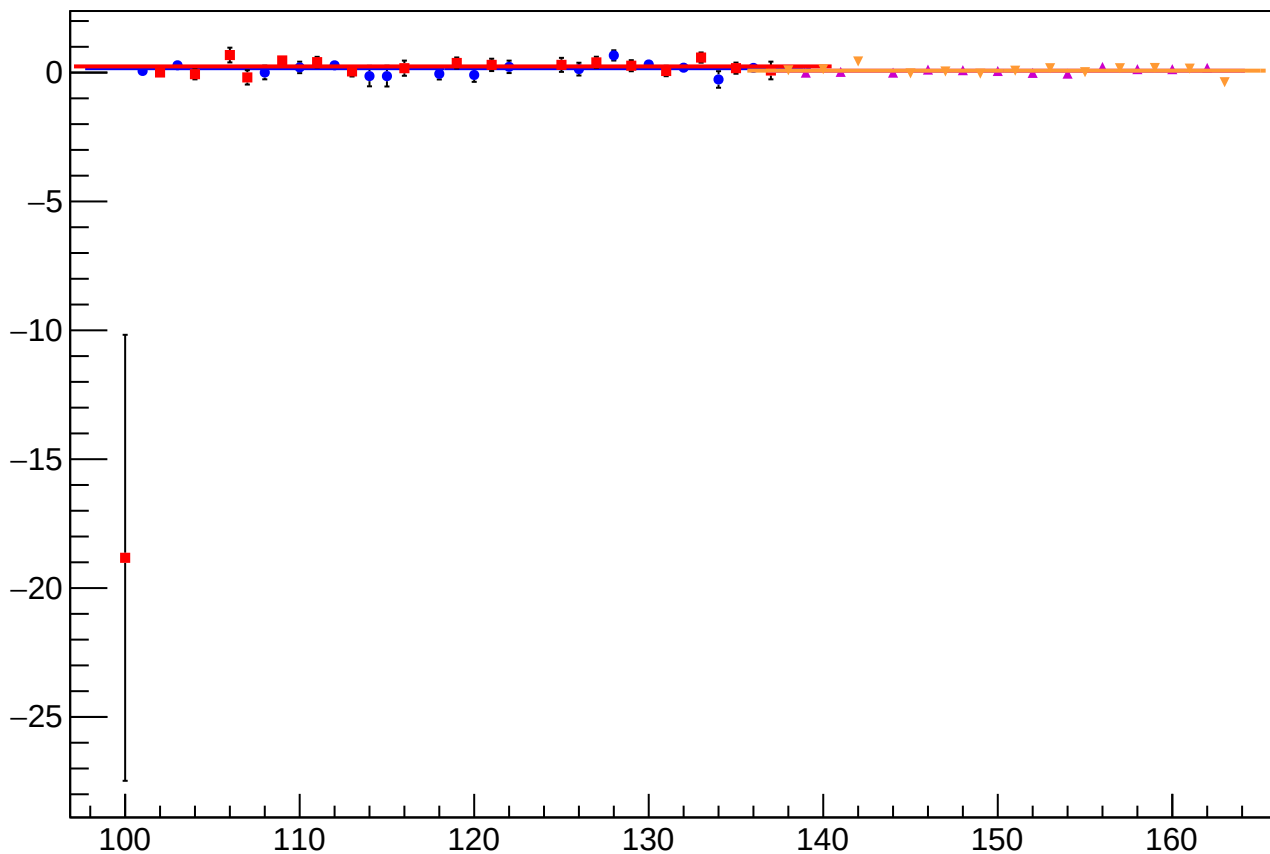
Left In:  $-0.040 \pm 0.022$   $\chi^2/\text{NDF}$ : 16.5/11

+ sign  $-0.056 \pm 0.017$   $\chi^2/\text{NDF}$ : 32.8/28

All:  $-0.050 \pm 0.012$   $\chi^2/\text{NDF}$ : 75.4/58

- sign  $-0.044 \pm 0.018$   $\chi^2/\text{NDF}$ : 42.4/29

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.171 \pm 0.052$   $\chi^2/\text{NDF}$ : 13.7/15

Left Out:  $0.075 \pm 0.031$   $\chi^2/\text{NDF}$ : 19.2/12

Right Out:  $0.239 \pm 0.054$   $\chi^2/\text{NDF}$ : 21.8/17

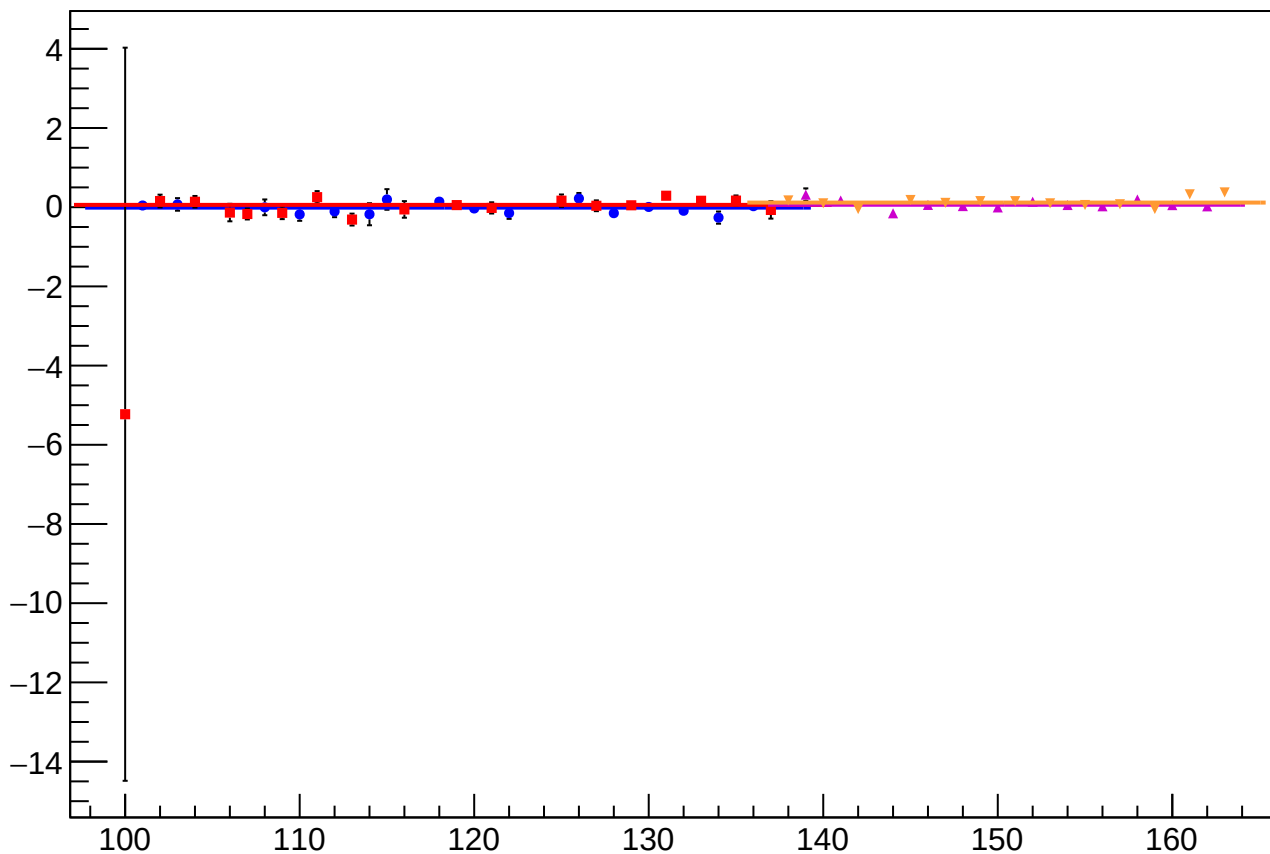
Left In:  $0.069 \pm 0.031$   $\chi^2/\text{NDF}$ : 6.3/11

+ sign  $0.100 \pm 0.027$   $\chi^2/\text{NDF}$ : 35.4/28

All:  $0.106 \pm 0.019$   $\chi^2/\text{NDF}$ : 71.0/58

- sign  $0.111 \pm 0.027$   $\chi^2/\text{NDF}$ : 35.5/29

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.011 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.8/15

Left Out:  $0.117 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.4/12

Right Out:  $0.059 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.6/17

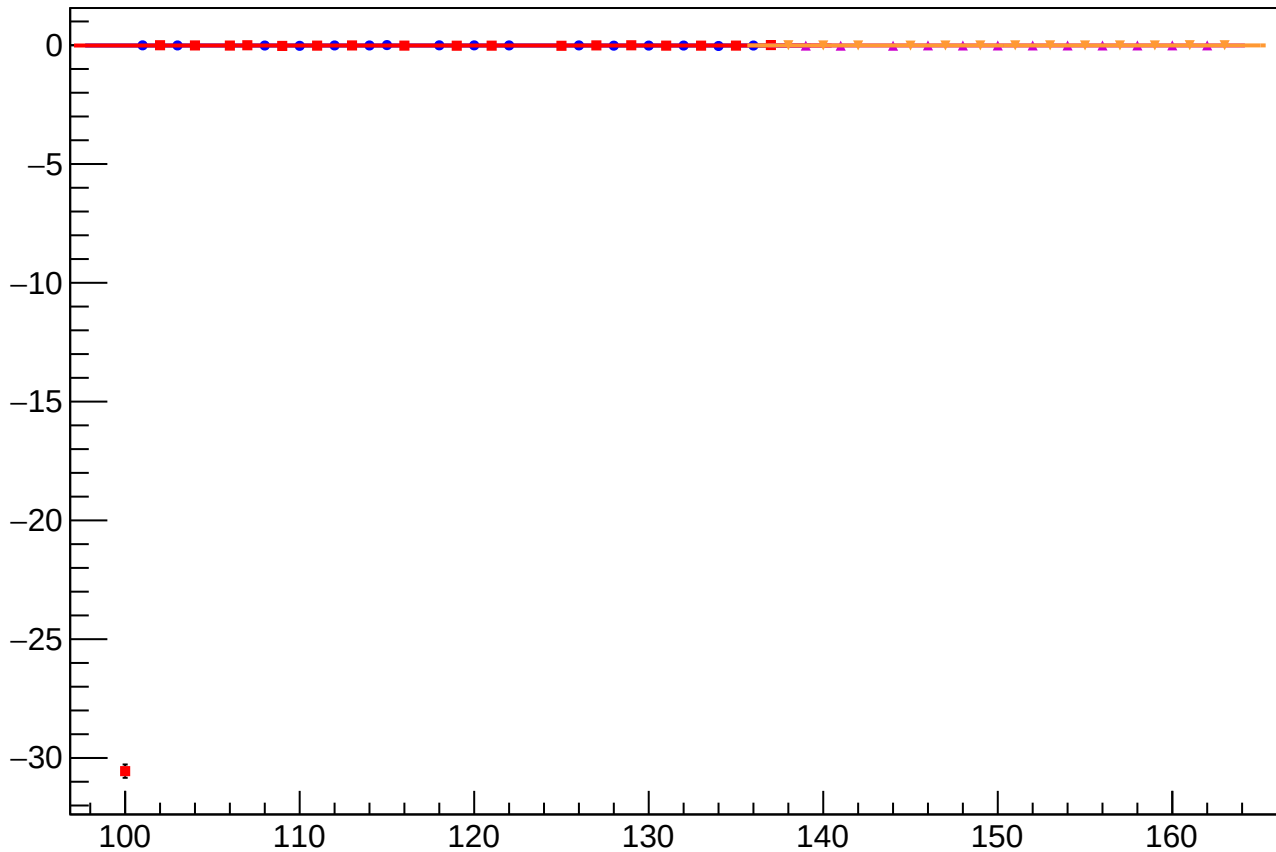
Left In:  $0.062 \pm 0.026$   $\chi^2/\text{NDF}$ : 14.2/11

+ sign  $0.067 \pm 0.020$   $\chi^2/\text{NDF}$ : 37.5/28

All:  $0.064 \pm 0.015$   $\chi^2/\text{NDF}$ : 72.3/58

- sign  $0.060 \pm 0.021$   $\chi^2/\text{NDF}$ : 34.7/29

# reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.9/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 11.9/12

Right Out:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 11891.5/17

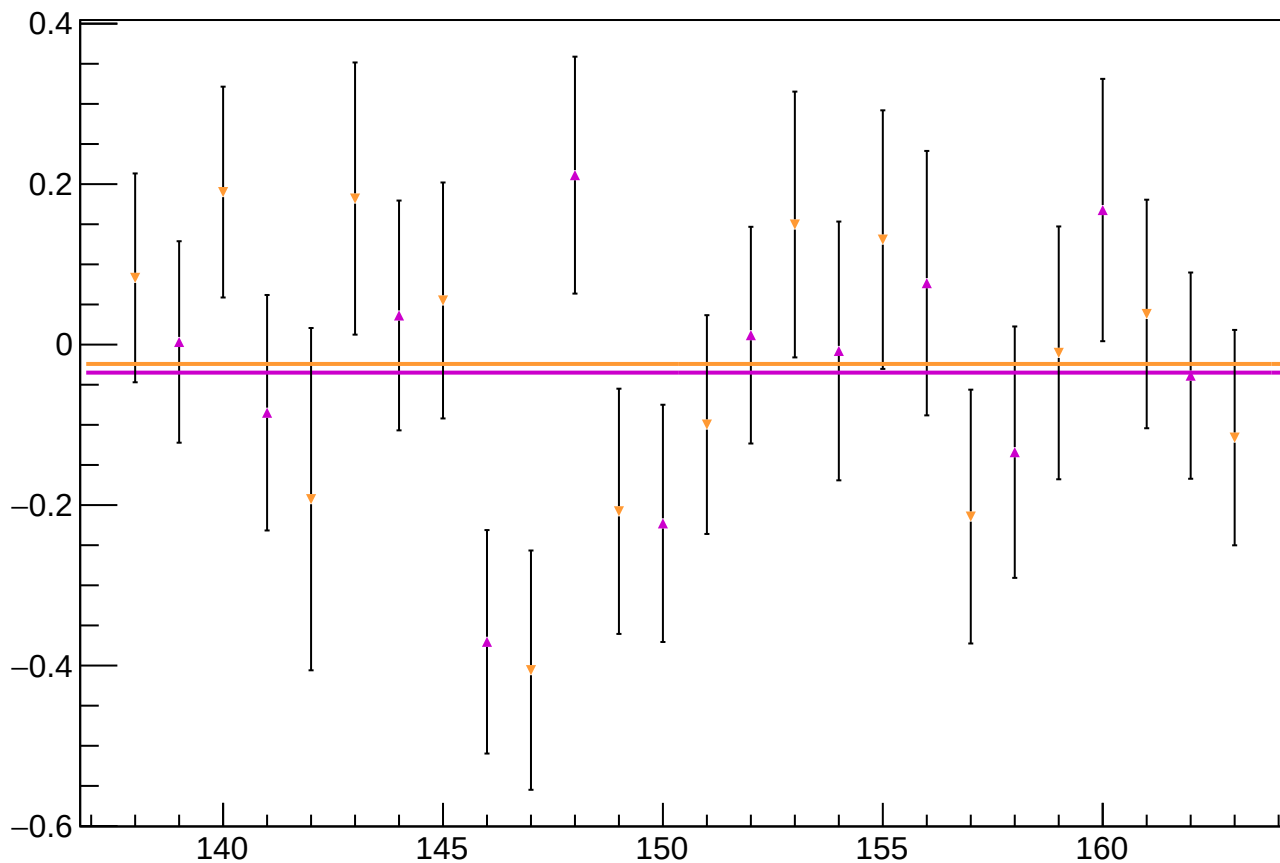
Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 11.9/11

+ sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 27.7/28

All:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 11933.2/58

- sign  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 11903.9/29

# reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.024 $\pm$ 0.040  $\chi^2$ /NDF: 18.2/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

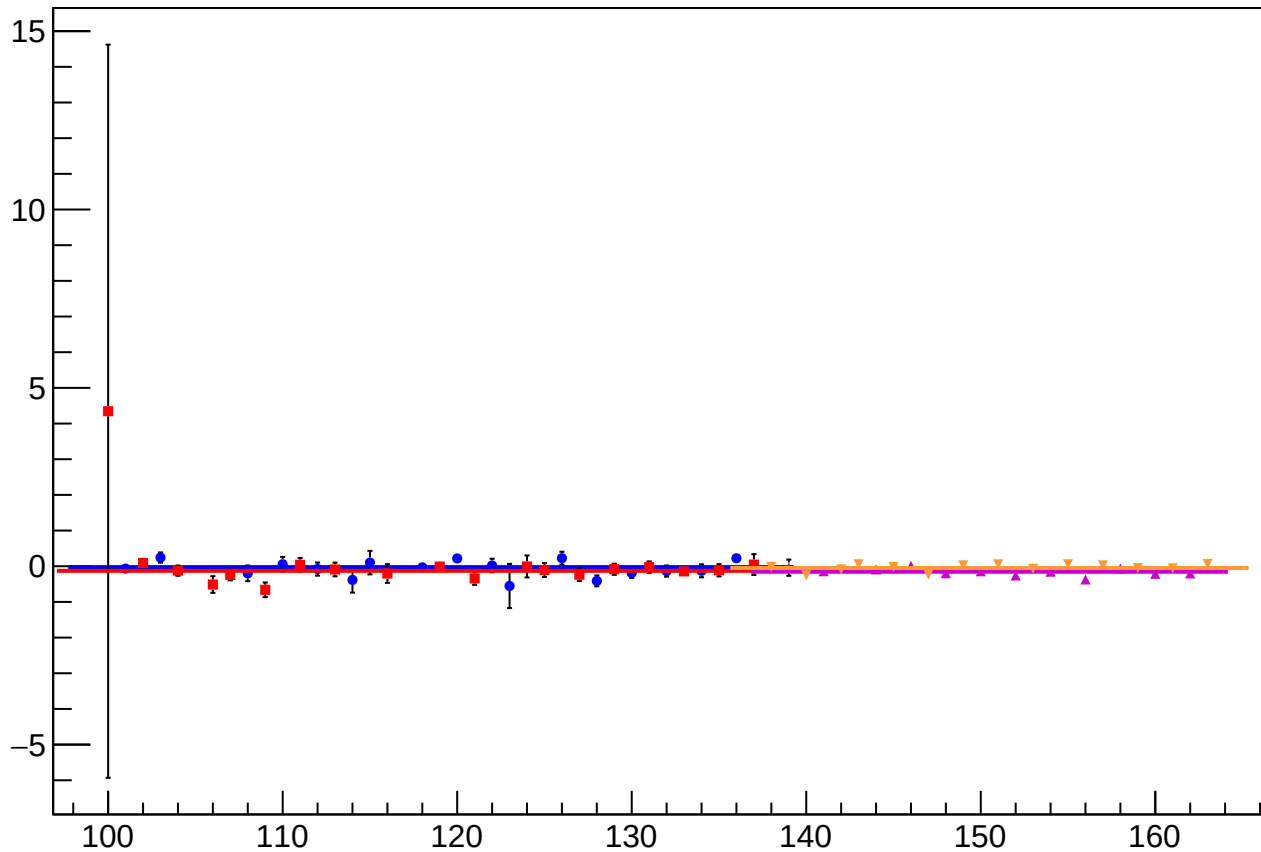
Left In: -0.035 $\pm$ 0.042  $\chi^2$ /NDF: 13.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.029 $\pm$ 0.029  $\chi^2$ /NDF: 31.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.024 \pm 0.037$   $\chi^2/\text{NDF}$ : 23.4/16

Left Out:  $-0.049 \pm 0.028$   $\chi^2/\text{NDF}$ : 16.0/13

Right Out:  $-0.128 \pm 0.039$   $\chi^2/\text{NDF}$ : 17.6/18

Left In:  $-0.154 \pm 0.029$   $\chi^2/\text{NDF}$ : 10.9/11

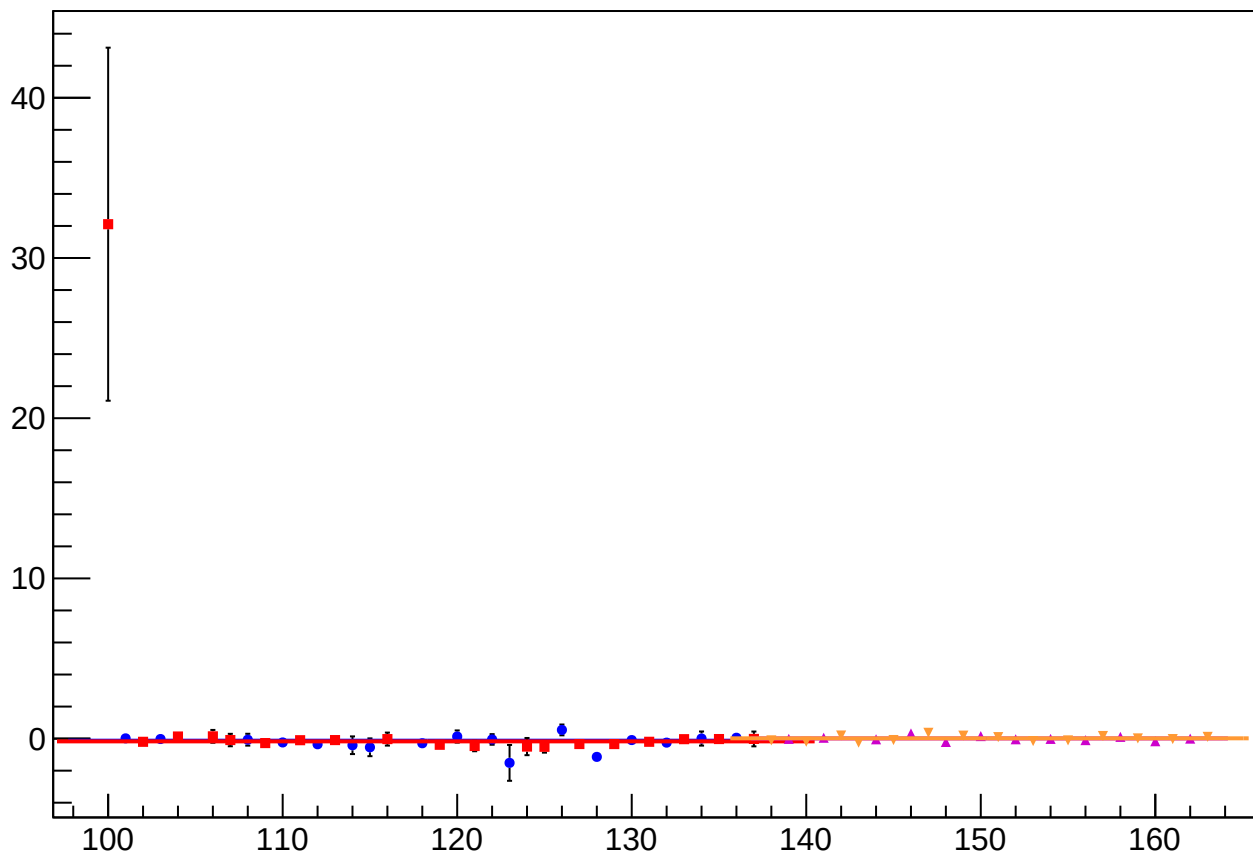
+ sign  $-0.040 \pm 0.022$   $\chi^2/\text{NDF}$ : 39.6/30

All:  $-0.089 \pm 0.016$   $\chi^2/\text{NDF}$ : 79.1/61

- sign  $-0.145 \pm 0.024$   $\chi^2/\text{NDF}$ : 28.8/30



# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug



Right In:  $-0.129 \pm 0.067$   $\chi^2/\text{NDF}$ : 23.7/16

Left Out:  $0.018 \pm 0.039$   $\chi^2/\text{NDF}$ : 17.8/13

Right Out:  $-0.172 \pm 0.071$   $\chi^2/\text{NDF}$ : 15.0/18

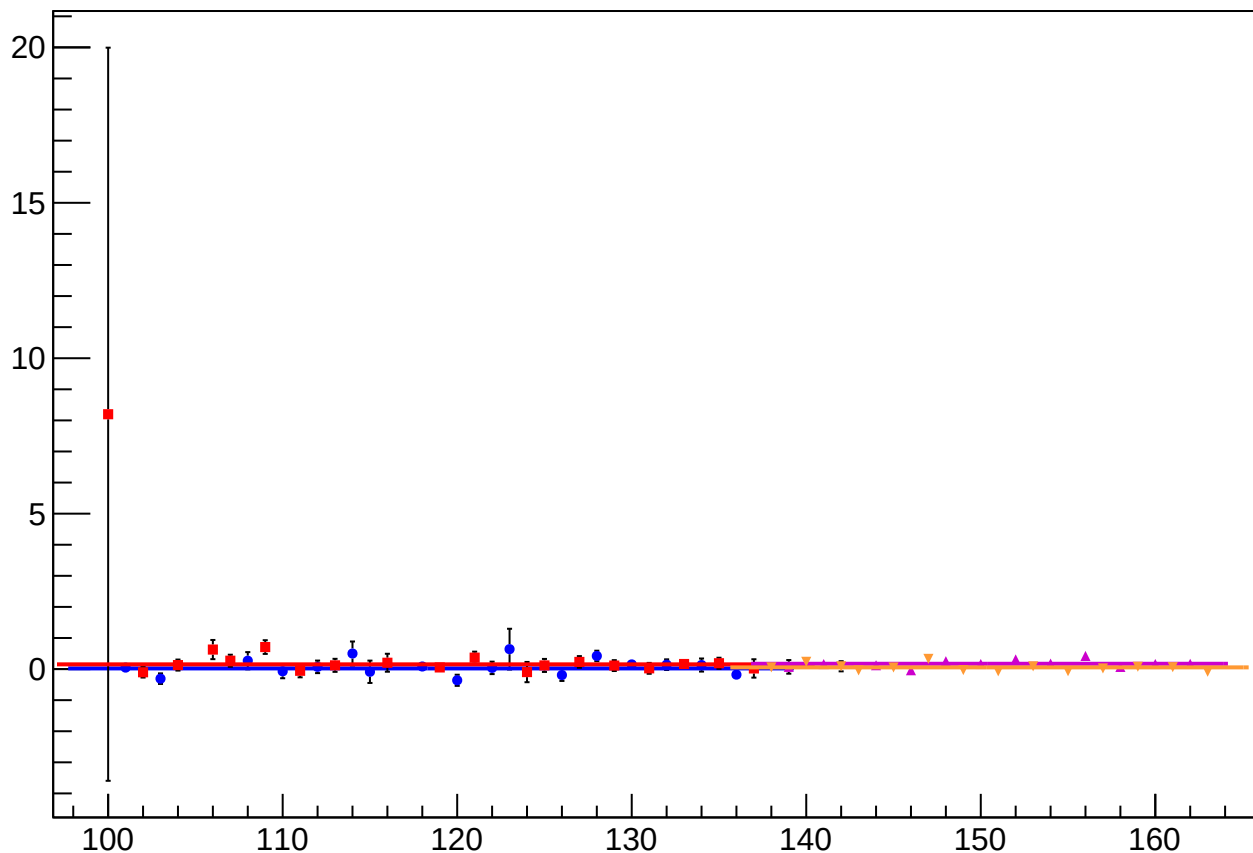
Left In:  $0.011 \pm 0.041$   $\chi^2/\text{NDF}$ : 11.8/11

+ sign  $-0.020 \pm 0.034$   $\chi^2/\text{NDF}$ : 45.2/30

All:  $-0.027 \pm 0.024$   $\chi^2/\text{NDF}$ : 77.1/61

- sign  $-0.034 \pm 0.035$   $\chi^2/\text{NDF}$ : 31.8/30

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.021 \pm 0.042$   $\chi^2/\text{NDF}$ : 22.5/16

Left Out:  $0.054 \pm 0.033$   $\chi^2/\text{NDF}$ : 15.1/13

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}$ : 16.2/18

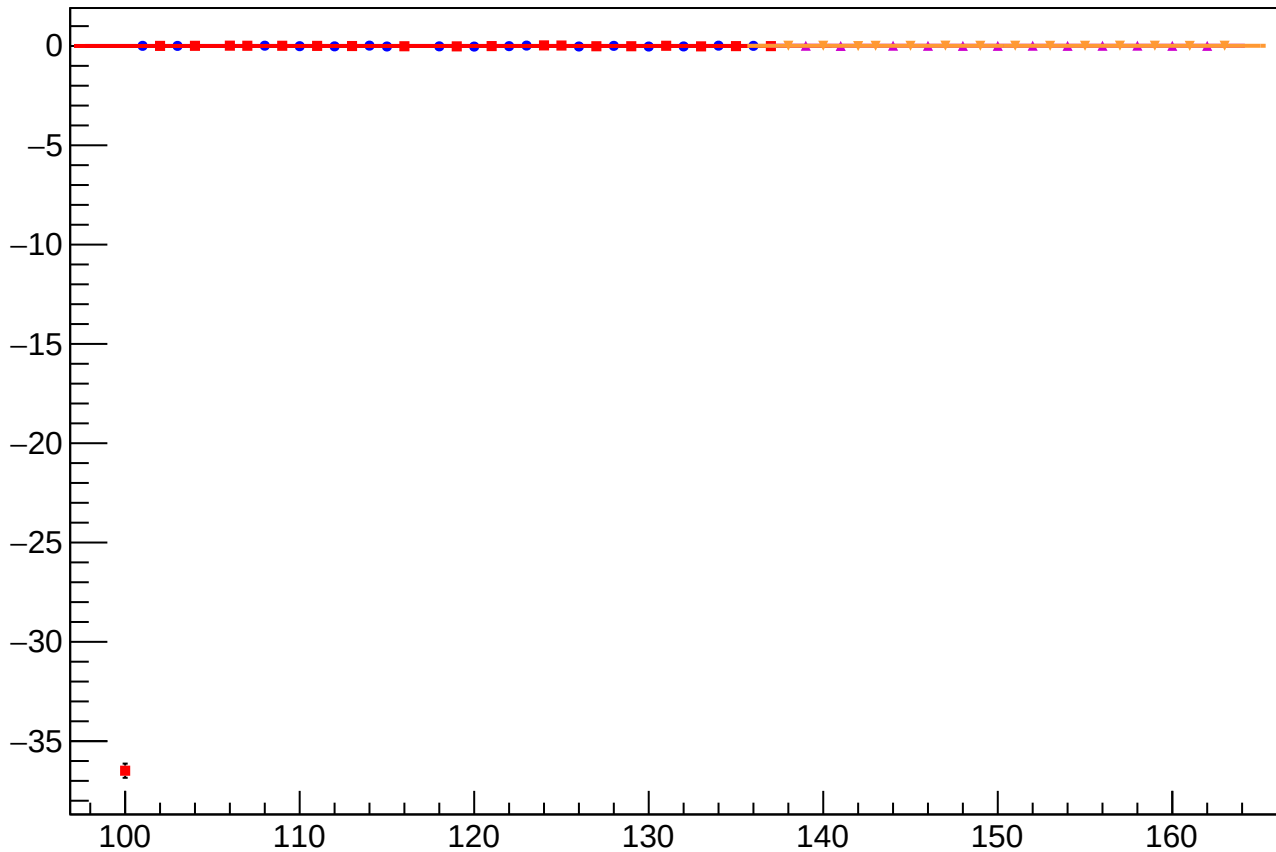
Left In:  $0.171 \pm 0.034$   $\chi^2/\text{NDF}$ : 10.9/11

+ sign  $0.042 \pm 0.026$   $\chi^2/\text{NDF}$ : 38.0/30

All:  $0.099 \pm 0.019$   $\chi^2/\text{NDF}$ : 75.8/61

- sign  $0.164 \pm 0.027$   $\chi^2/\text{NDF}$ : 27.3/30

# reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug



Right In: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 32.4/16

Left Out: 0.010 $\pm$ 0.002  $\chi^2$ /NDF: 6.6/13

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 10449.1/18

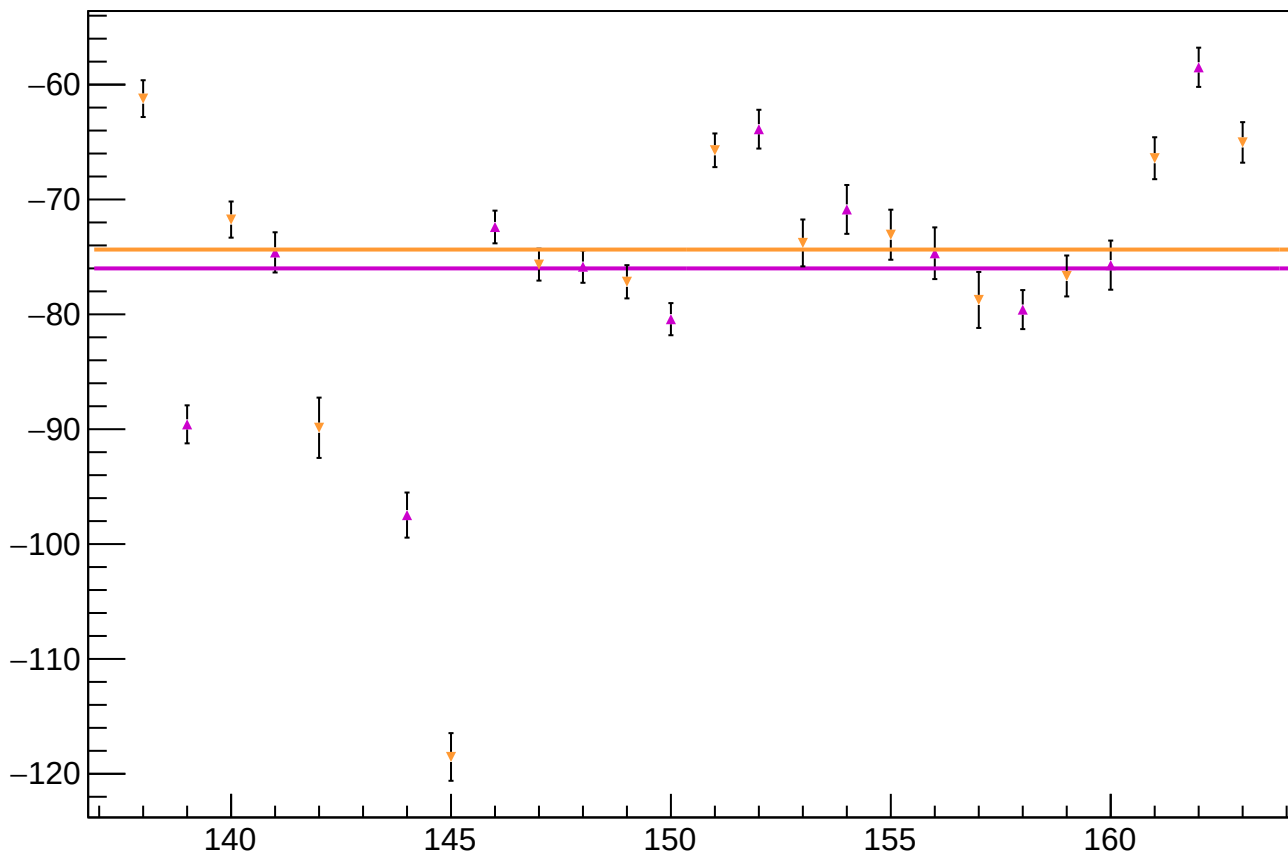
Left In: 0.011 $\pm$ 0.002  $\chi^2$ /NDF: 5.4/11

+ sign 0.007 $\pm$ 0.001  $\chi^2$ /NDF: 50.8/30

All: 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 10517.9/61

- sign 0.008 $\pm$ 0.001  $\chi^2$ /NDF: 10467.1/30

# reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-74.359 \pm 0.489$   $\chi^2/\text{NDF}$ : 649.6/12

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

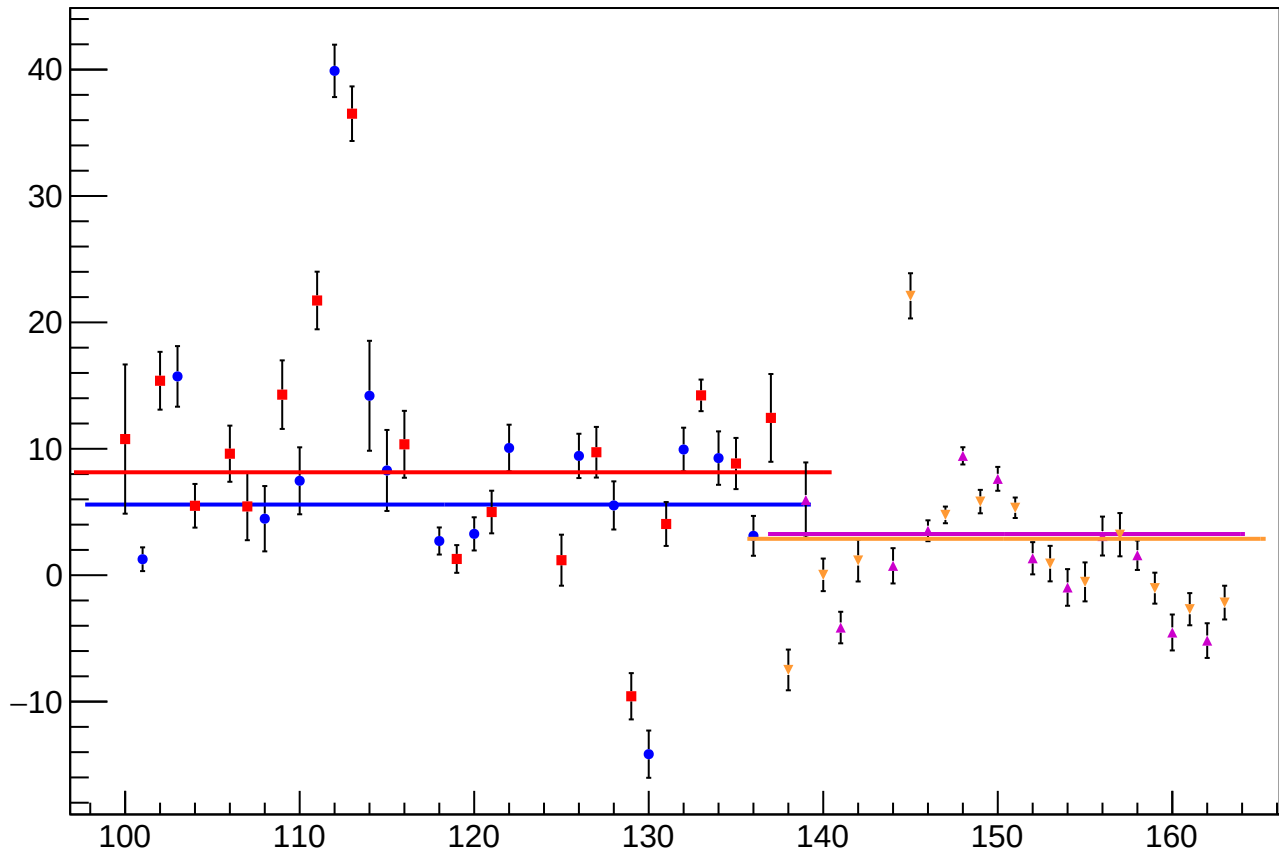
Left In:  $-76.001 \pm 0.492$   $\chi^2/\text{NDF}$ : 371.2/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-75.175 \pm 0.347$   $\chi^2/\text{NDF}$ : 1026.4/24

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $5.589 \pm 0.424$   $\chi^2/\text{NDF}$ : 462.8/15

Left Out:  $2.879 \pm 0.320$   $\chi^2/\text{NDF}$ : 240.9/12

Right Out:  $8.142 \pm 0.454$   $\chi^2/\text{NDF}$ : 407.7/17

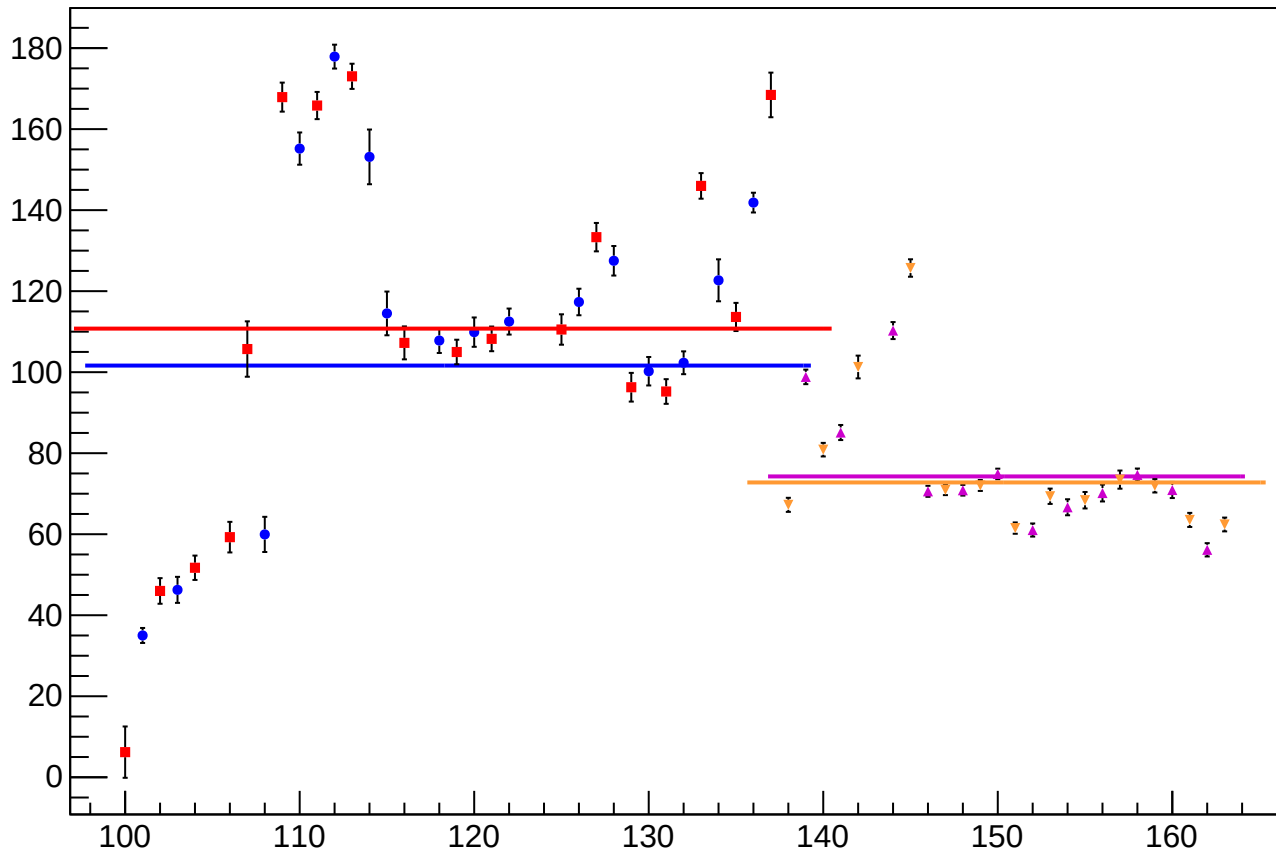
Left In:  $3.259 \pm 0.328$   $\chi^2/\text{NDF}$ : 223.5/11

+ sign  $3.864 \pm 0.255$   $\chi^2/\text{NDF}$ : 729.8/28

All:  $4.379 \pm 0.184$   $\chi^2/\text{NDF}$ : 1445.5/58

- sign  $4.937 \pm 0.266$   $\chi^2/\text{NDF}$ : 707.3/29

# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 101.631 $\pm$ 0.807  $\chi^2$ /NDF: 2978.9/15

Left Out: 72.779 $\pm$ 0.474  $\chi^2$ /NDF:881.0/12

Right Out: 110.756 $\pm$ 0.836  $\chi^2$ /NDF: 2513.0/17

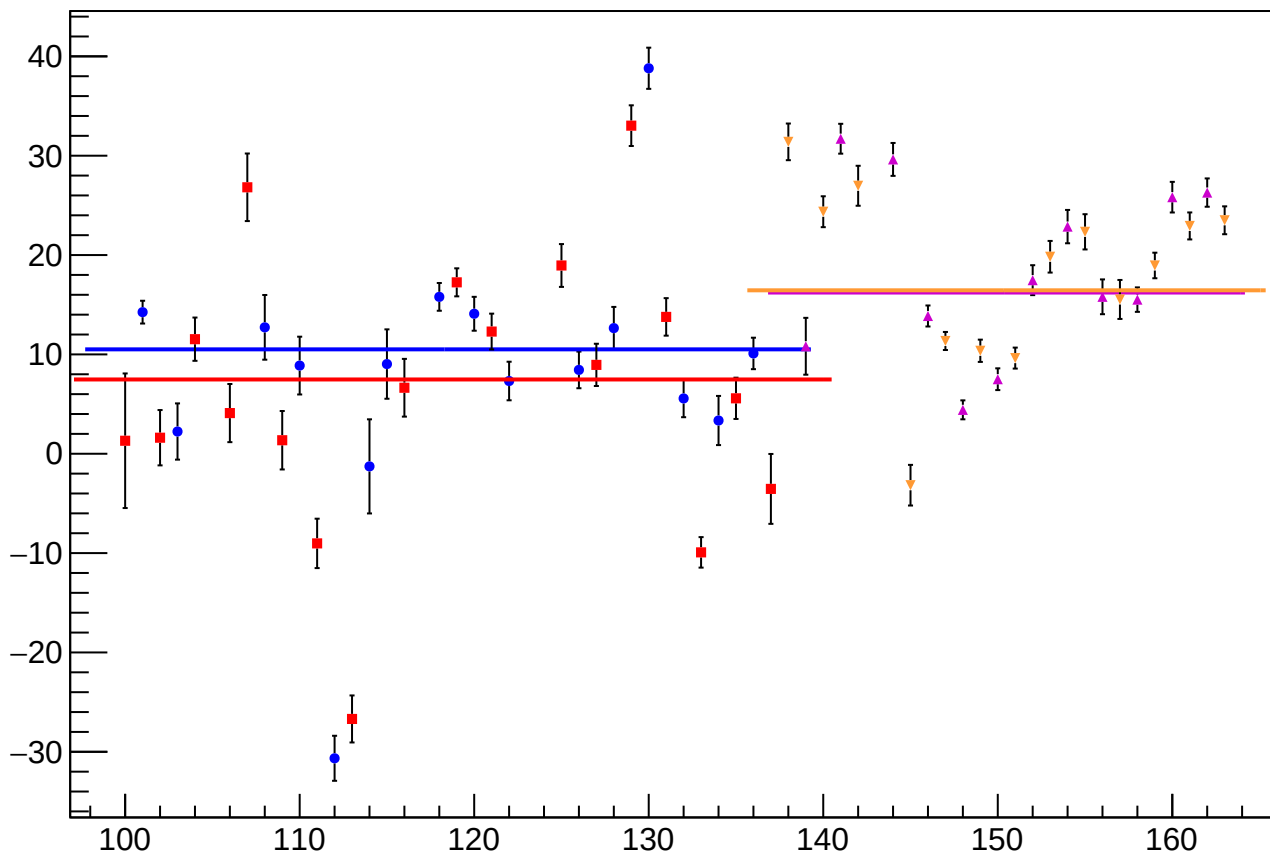
Left In: 74.267 $\pm$ 0.475  $\chi^2$ /NDF:739.8/11

+ sign 80.190 $\pm$ 0.409  $\chi^2$ /NDF: 4809.8/28

All: 81.670 $\pm$ 0.291  $\chi^2$ /NDF: 9528.1/58

- sign 83.181 $\pm$ 0.413  $\chi^2$ /NDF: 4691.8/29

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $10.508 \pm 0.492$   $\chi^2/\text{NDF}: 581.5/15$

Left Out:  $16.450 \pm 0.386$   $\chi^2/\text{NDF}: 381.0/12$

Right Out:  $7.477 \pm 0.524$   $\chi^2/\text{NDF}: 689.3/17$

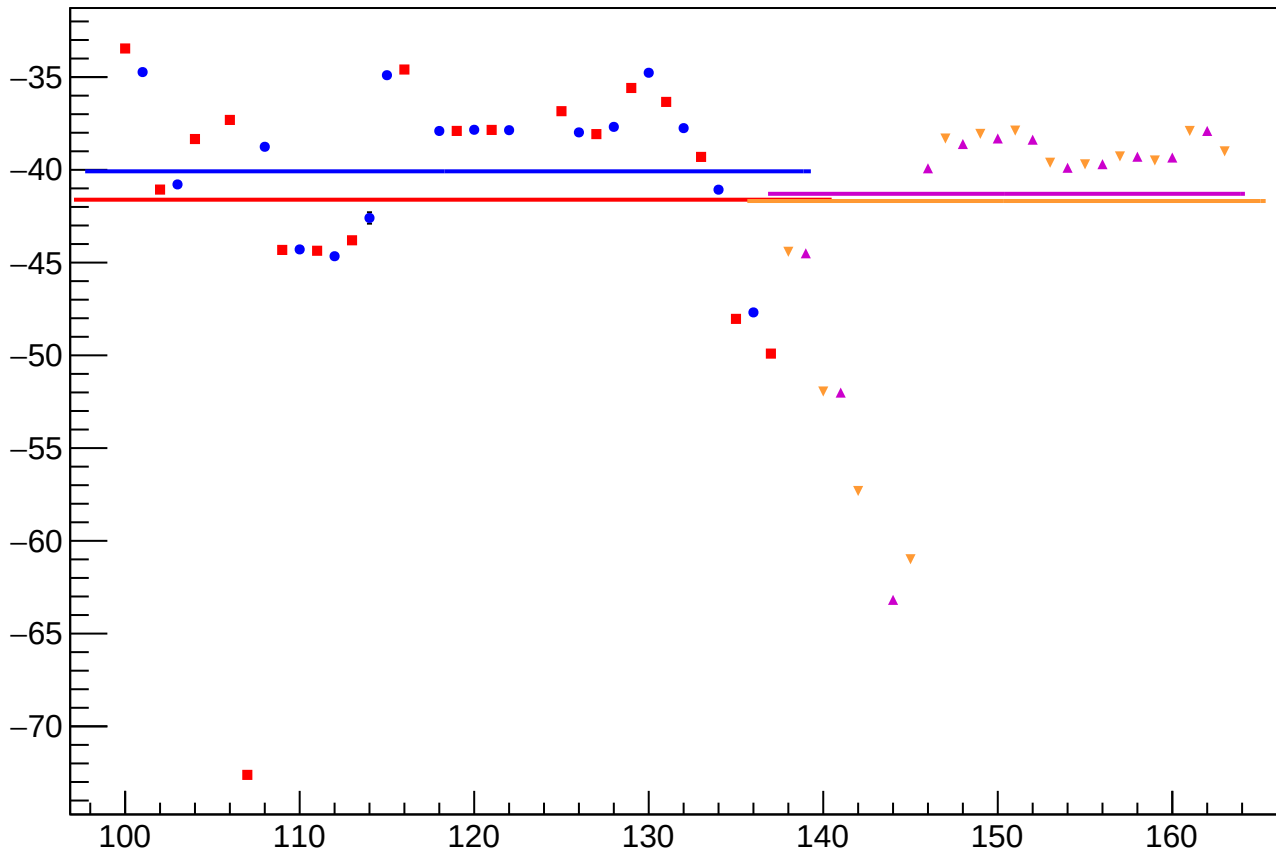
Left In:  $16.227 \pm 0.394$   $\chi^2/\text{NDF}: 502.2/11$

+ sign  $14.189 \pm 0.304$   $\chi^2/\text{NDF}: 1052.8/28$

All:  $13.650 \pm 0.219$   $\chi^2/\text{NDF}: 2429.1/58$

- sign  $13.070 \pm 0.315$   $\chi^2/\text{NDF}: 1369.7/29$

# reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-40.080 \pm 0.028$   $\chi^2/\text{NDF}: 25123.9/15$

Left Out:  $-41.680 \pm 0.019$   $\chi^2/\text{NDF}: 111423.9/12$

Right Out:  $-41.609 \pm 0.029$   $\chi^2/\text{NDF}: 61784.6/17$

Left In:  $-41.292 \pm 0.019$   $\chi^2/\text{NDF}: 92615.7/11$

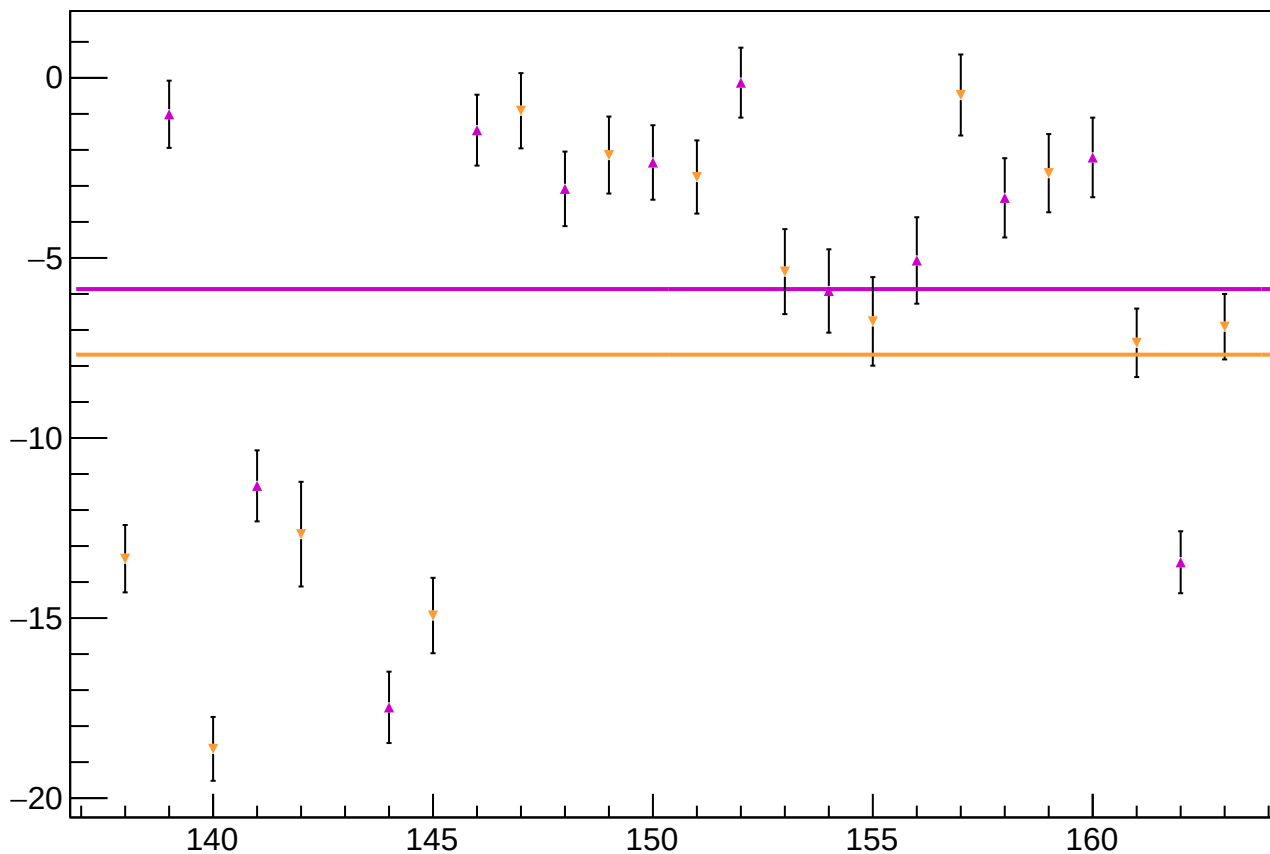
+ sign  $-41.182 \pm 0.016$   $\chi^2/\text{NDF}: 138766.8/28$

All:  $-41.285 \pm 0.011$   $\chi^2/\text{NDF}: 293339.1/58$

- sign  $-41.388 \pm 0.016$   $\chi^2/\text{NDF}: 154486.5/29$



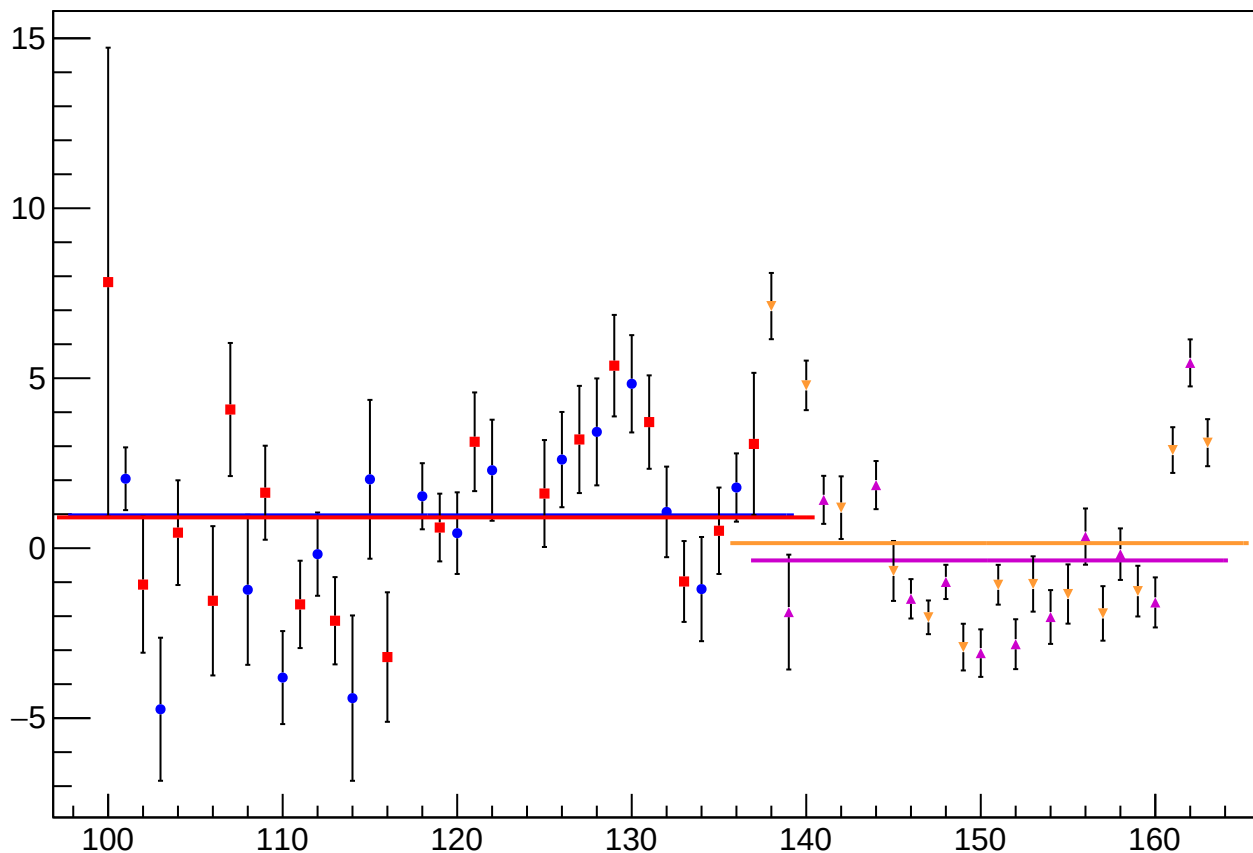
# reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.685+/-0.290  $\chi^2/\text{NDF}$ : 409.1/12  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.864+/-0.294  $\chi^2/\text{NDF}$ : 363.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -6.786+/-0.206  $\chi^2/\text{NDF}$ : 791.8/24  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.965 \pm 0.338$   $\chi^2/\text{NDF}$ : 42.9/15

Left Out:  $0.149 \pm 0.200$   $\chi^2/\text{NDF}$ : 187.7/12

Right Out:  $0.906 \pm 0.354$   $\chi^2/\text{NDF}$ : 42.0/17

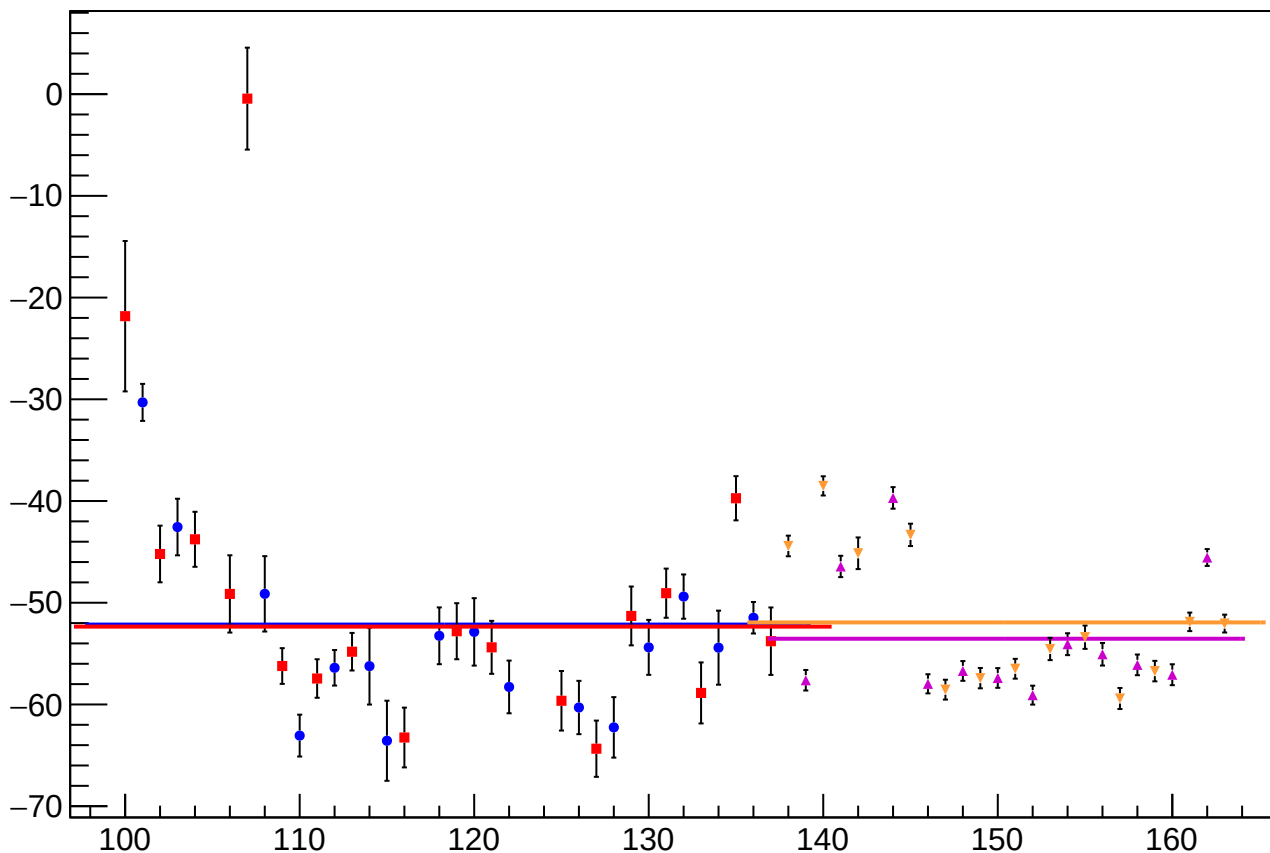
Left In:  $-0.360 \pm 0.204$   $\chi^2/\text{NDF}$ : 127.4/11

+ sign  $0.360 \pm 0.172$   $\chi^2/\text{NDF}$ : 234.9/28

All:  $0.164 \pm 0.123$   $\chi^2/\text{NDF}$ : 416.6/58

- sign  $-0.043 \pm 0.177$   $\chi^2/\text{NDF}$ : 179.0/29

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -52.148 $\pm$ 0.612  $\chi^2/\text{NDF}$ : 230.2/15

Left Out: -51.935 $\pm$ 0.283  $\chi^2/\text{NDF}$ : 517.1/12

Right Out: -52.346 $\pm$ 0.616  $\chi^2/\text{NDF}$ : 235.7/17

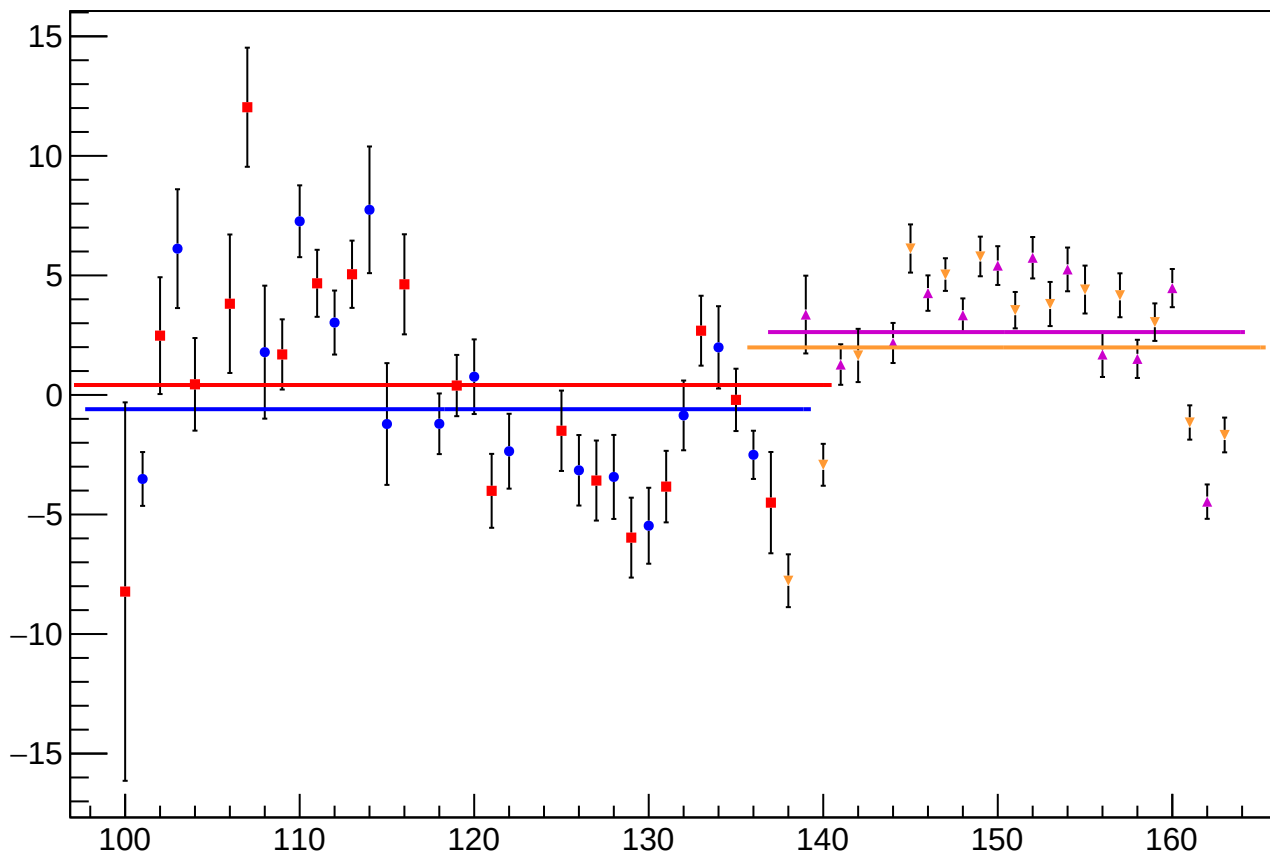
Left In: -53.539 $\pm$ 0.286  $\chi^2/\text{NDF}$ : 430.3/11

+ sign -51.972 $\pm$ 0.257  $\chi^2/\text{NDF}$ : 747.5/28

All: -52.644 $\pm$ 0.183  $\chi^2/\text{NDF}$ : 1430.4/58

- sign -53.328 $\pm$ 0.259  $\chi^2/\text{NDF}$ : 669.2/29

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.596 \pm 0.384$   $\chi^2/\text{NDF}$ : 82.6/15

Left Out:  $1.988 \pm 0.235$   $\chi^2/\text{NDF}$ : 233.2/12

Right Out:  $0.416 \pm 0.400$   $\chi^2/\text{NDF}$ : 95.8/17

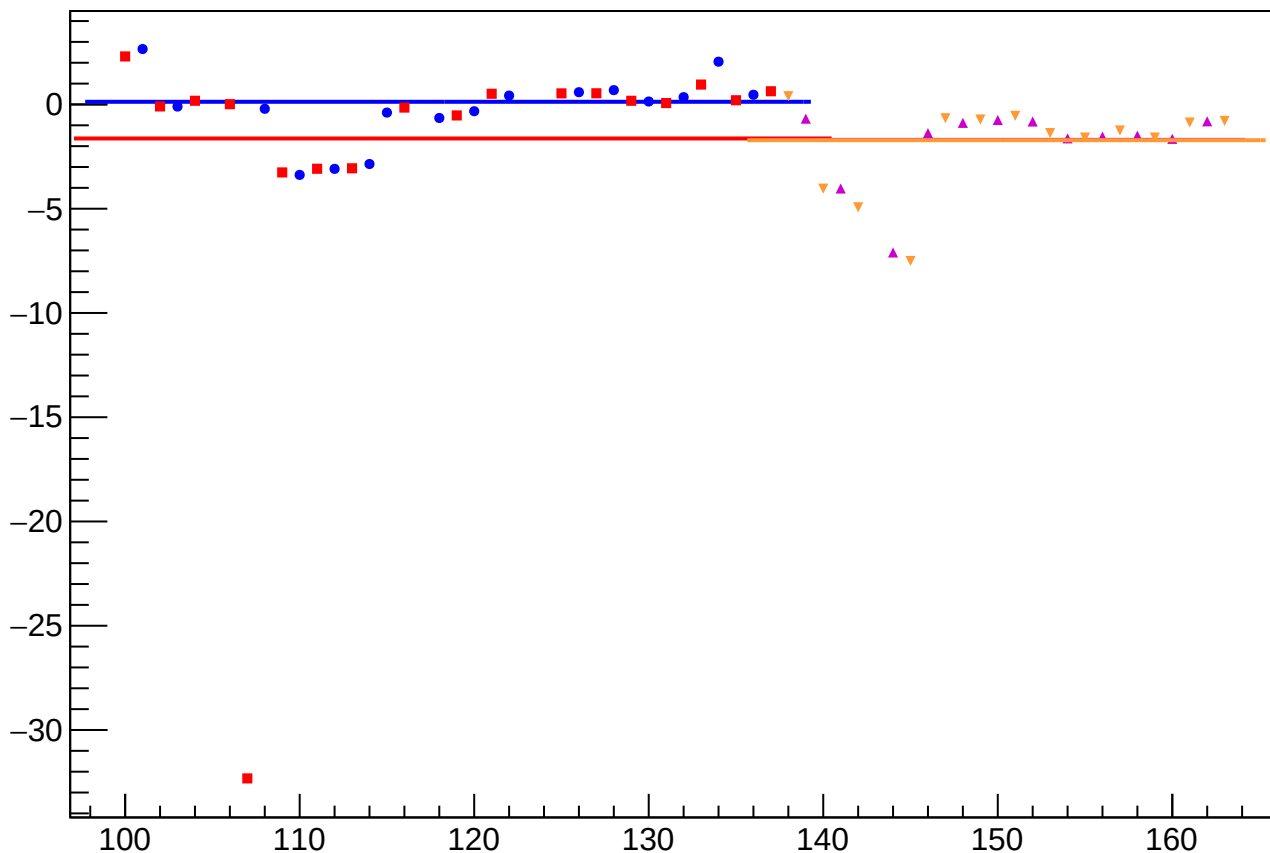
Left In:  $2.629 \pm 0.241$   $\chi^2/\text{NDF}$ : 147.3/11

+ sign  $1.282 \pm 0.201$   $\chi^2/\text{NDF}$ : 348.7/28

All:  $1.651 \pm 0.144$   $\chi^2/\text{NDF}$ : 621.3/58

- sign  $2.041 \pm 0.206$   $\chi^2/\text{NDF}$ : 265.6/29

# reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $0.128 \pm 0.021$   $\chi^2/\text{NDF}: 5252.9/15$

Left Out:  $-1.715 \pm 0.011$   $\chi^2/\text{NDF}: 30098.3/12$

Right Out:  $-1.631 \pm 0.022$   $\chi^2/\text{NDF}: 77878.6/17$

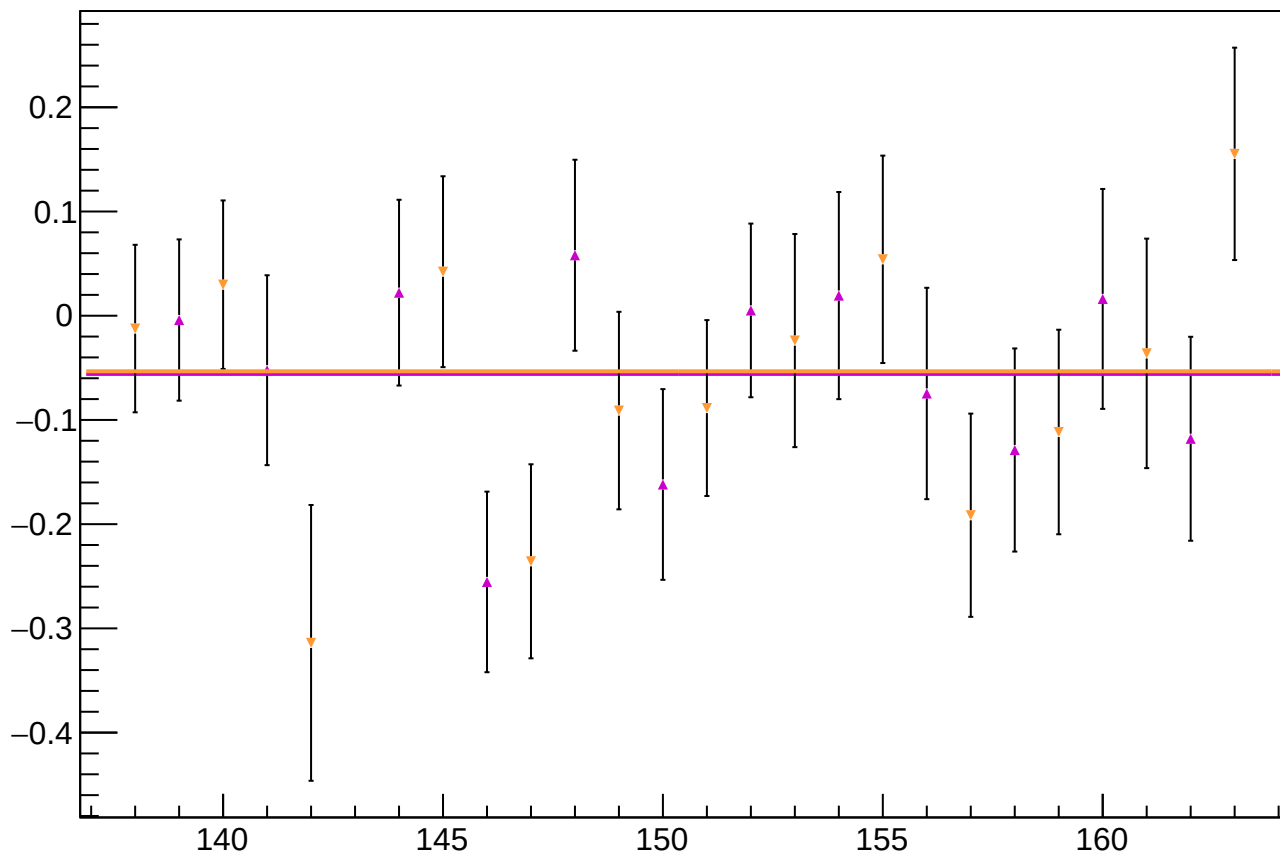
Left In:  $-1.699 \pm 0.011$   $\chi^2/\text{NDF}: 19771.0/11$

+ sign  $-1.329 \pm 0.010$   $\chi^2/\text{NDF}: 41161.9/28$

All:  $-1.505 \pm 0.007$   $\chi^2/\text{NDF}: 139469.0/58$

- sign  $-1.685 \pm 0.010$   $\chi^2/\text{NDF}: 97657.3/29$

# reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.053 $\pm$ 0.026  $\chi^2$ /NDF:18.3/12

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

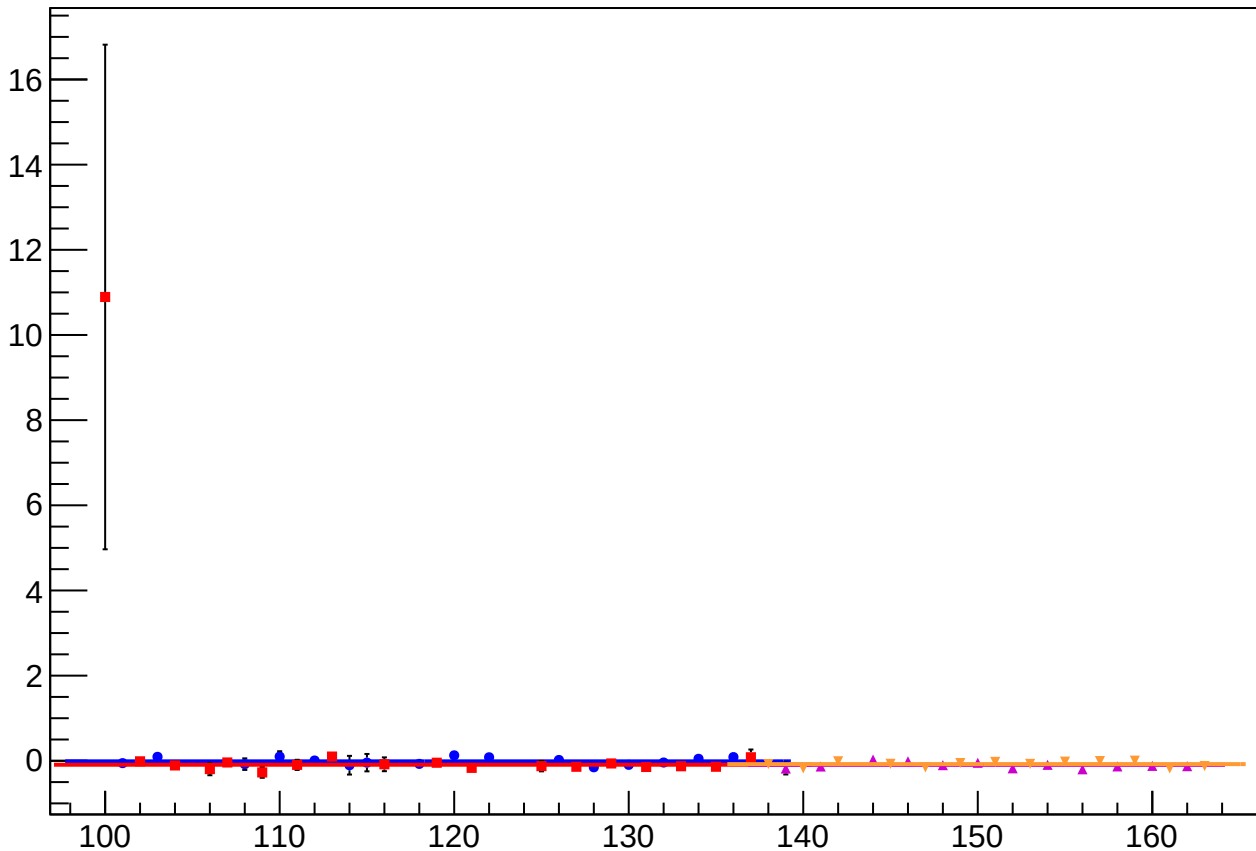
Left In: -0.056 $\pm$ 0.026  $\chi^2$ /NDF:12.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -0.055 $\pm$ 0.019  $\chi^2$ /NDF: 30.3/24

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: -0.013 $\pm$ 0.023  $\chi^2$ /NDF: 12.2/15

Left Out: -0.078 $\pm$ 0.018  $\chi^2$ /NDF: 12.4/12

Right Out: -0.092 $\pm$ 0.025  $\chi^2$ /NDF: 12.7/17

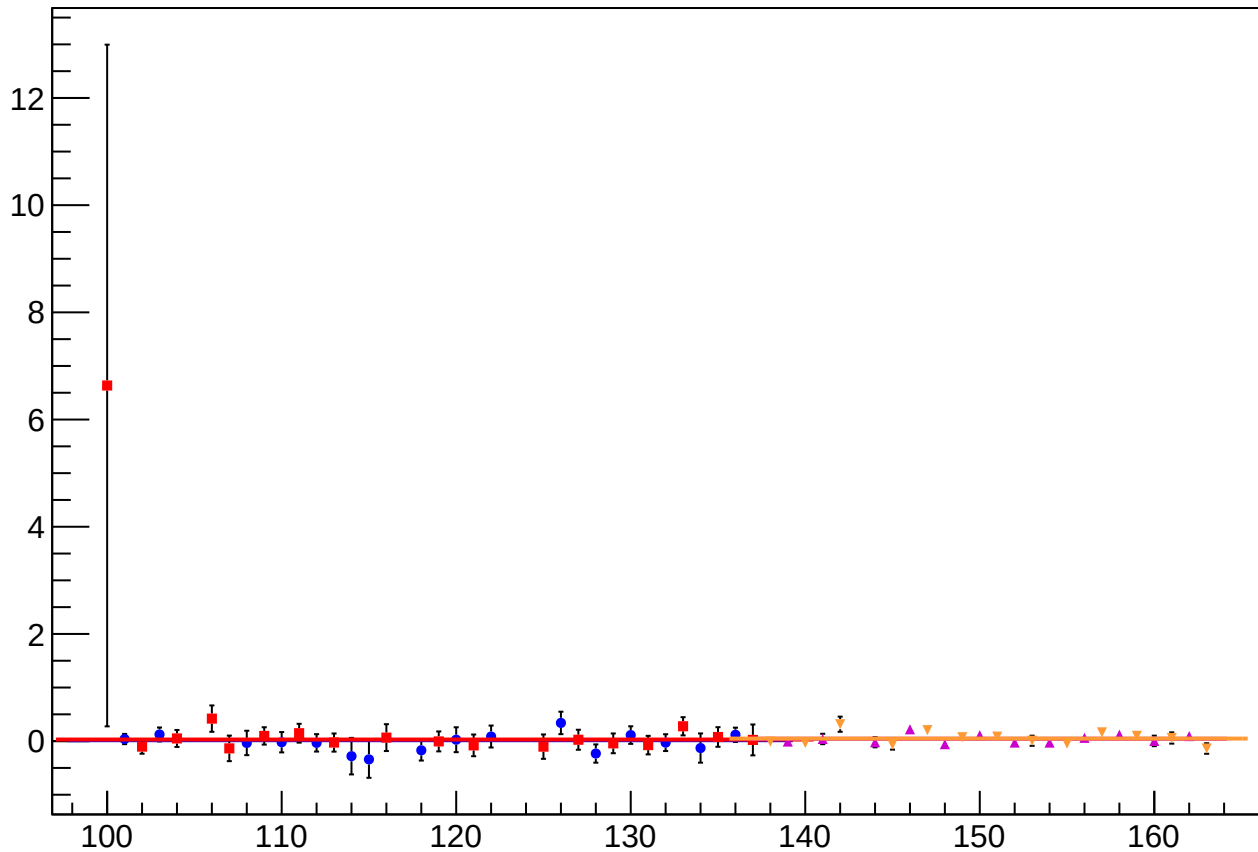
Left In: -0.096 $\pm$ 0.018  $\chi^2$ /NDF: 12.2/11

+ sign -0.053 $\pm$ 0.014  $\chi^2$ /NDF: 29.5/28

All: -0.073 $\pm$ 0.010  $\chi^2$ /NDF: 58.4/58

- sign -0.094 $\pm$ 0.015  $\chi^2$ /NDF: 24.9/29

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.017 \pm 0.043$   $\chi^2/\text{NDF}$ : 9.6/15

Left Out:  $0.047 \pm 0.026$   $\chi^2/\text{NDF}$ : 16.5/12

Right Out:  $0.030 \pm 0.045$   $\chi^2/\text{NDF}$ : 9.2/17

Left In:  $0.044 \pm 0.026$   $\chi^2/\text{NDF}$ : 9.9/11

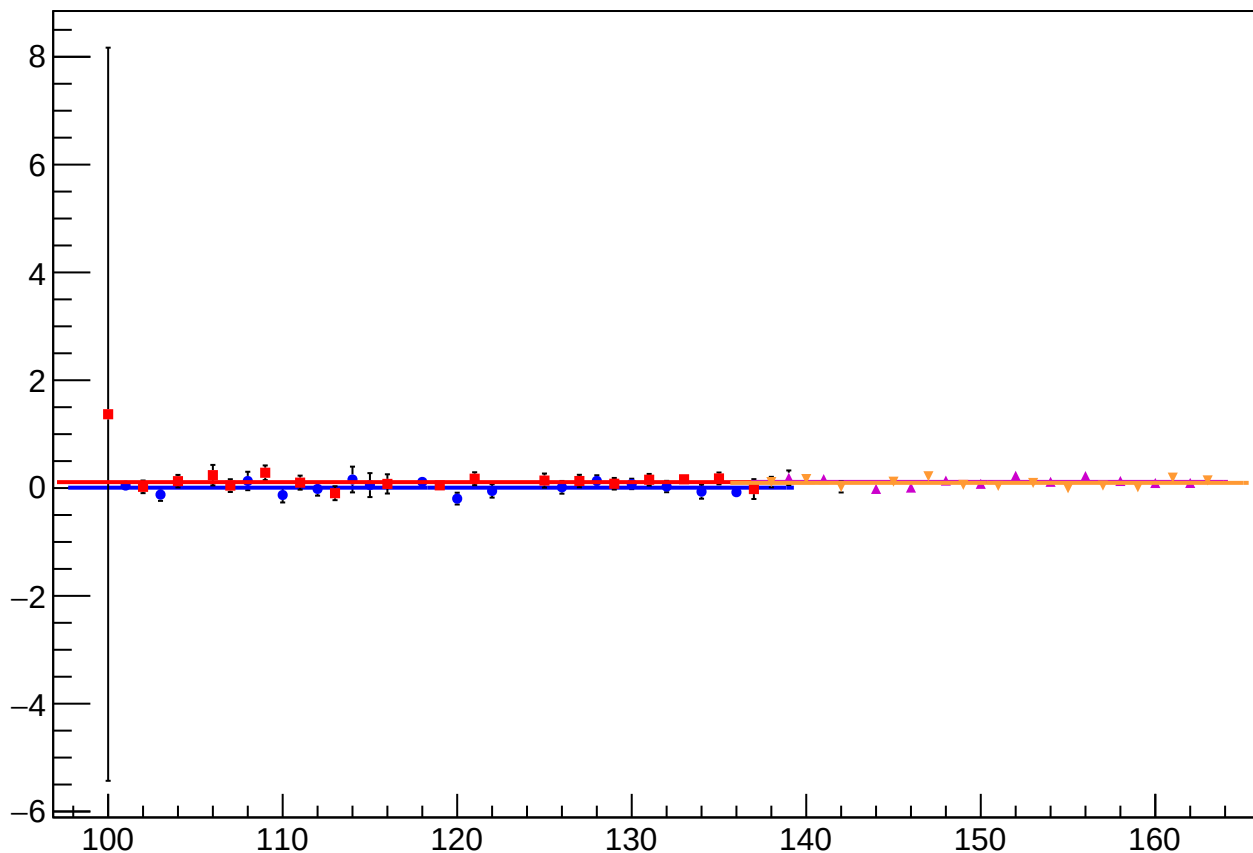
+ sign  $0.039 \pm 0.022$   $\chi^2/\text{NDF}$ : 26.5/28

All:  $0.040 \pm 0.016$   $\chi^2/\text{NDF}$ : 45.7/58

- sign  $0.040 \pm 0.022$   $\chi^2/\text{NDF}$ : 19.2/29



# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $0.007 \pm 0.027$   $\chi^2/\text{NDF}$ : 12.1/15

Left Out:  $0.096 \pm 0.022$   $\chi^2/\text{NDF}$ : 11.5/12

Right Out:  $0.110 \pm 0.029$   $\chi^2/\text{NDF}$ : 8.0/17

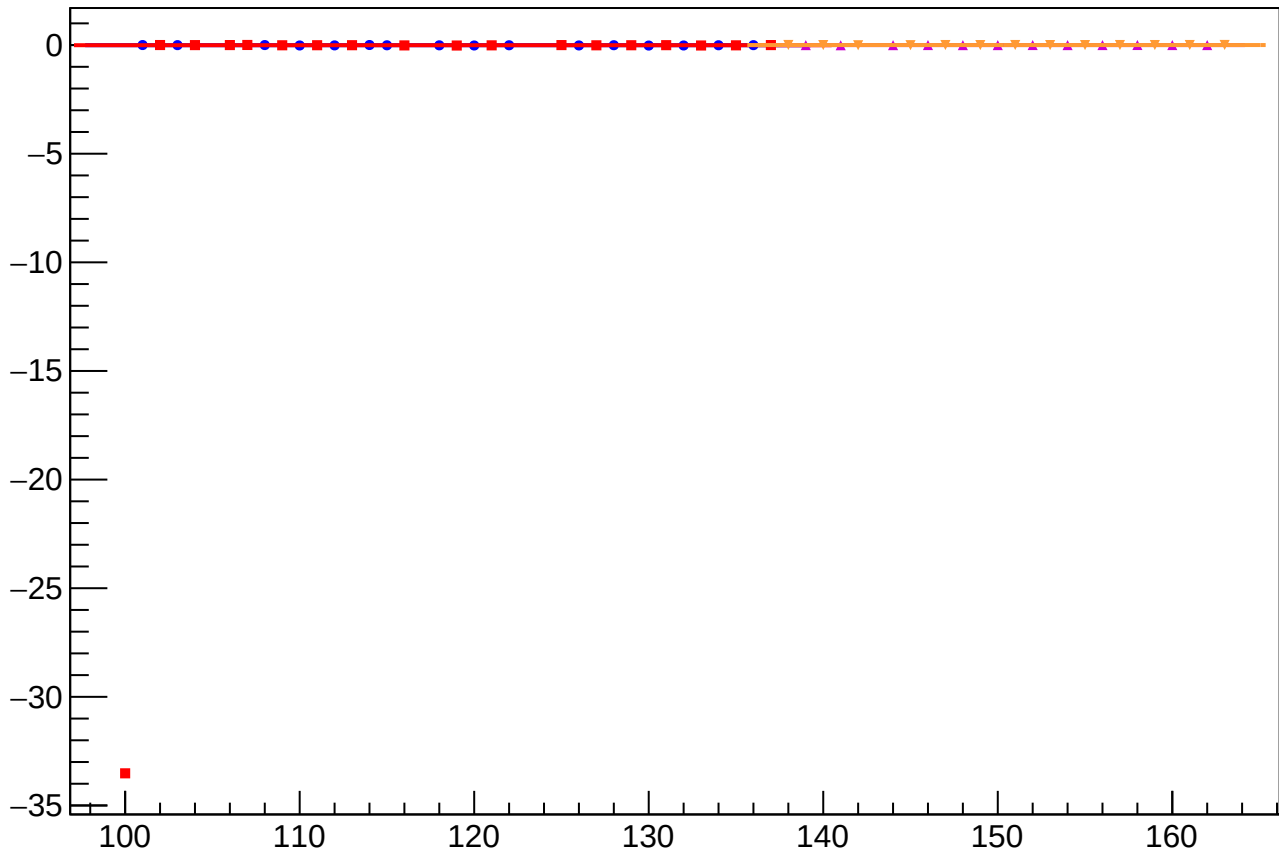
Left In:  $0.114 \pm 0.022$   $\chi^2/\text{NDF}$ : 11.1/11

+ sign  $0.061 \pm 0.017$   $\chi^2/\text{NDF}$ : 30.3/28

All:  $0.086 \pm 0.012$   $\chi^2/\text{NDF}$ : 53.9/58

- sign  $0.112 \pm 0.017$   $\chi^2/\text{NDF}$ : 19.1/29

# reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.005+/-0.001  $\chi^2$ /NDF: 22.6/15

Left Out: 0.001+/-0.001  $\chi^2$ /NDF: 8.4/12

Right Out: -0.006+/-0.001  $\chi^2$ /NDF: 26508.9/17

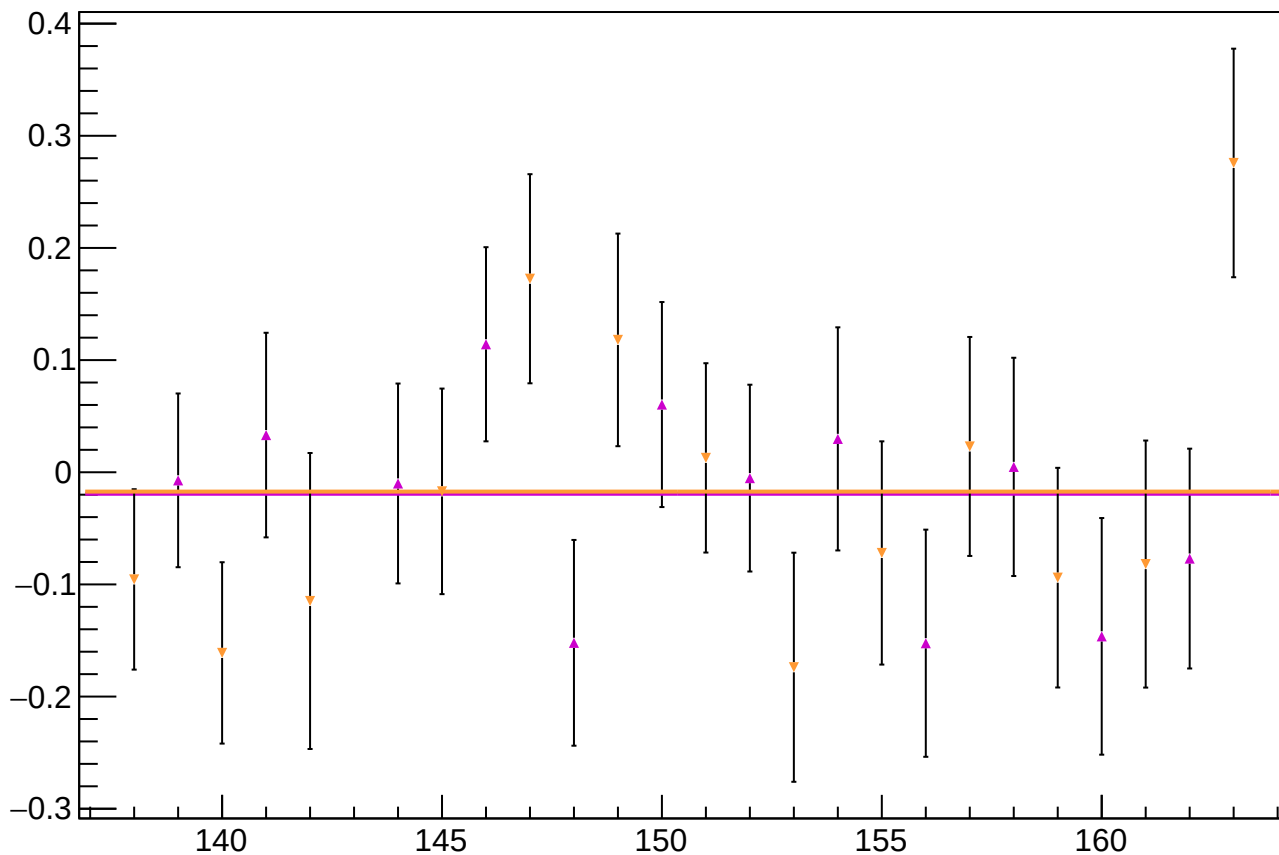
Left In: 0.000+/-0.001  $\chi^2$ /NDF: 7.4/11

+ sign -0.001+/-0.001  $\chi^2$ /NDF: 46.5/28

All: -0.001+/-0.001  $\chi^2$ /NDF: 26575.3/58

- sign -0.002+/-0.001  $\chi^2$ /NDF: 26528.1/29

# reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.017+/-0.026  $\chi^2/\text{NDF}$ : 23.0/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

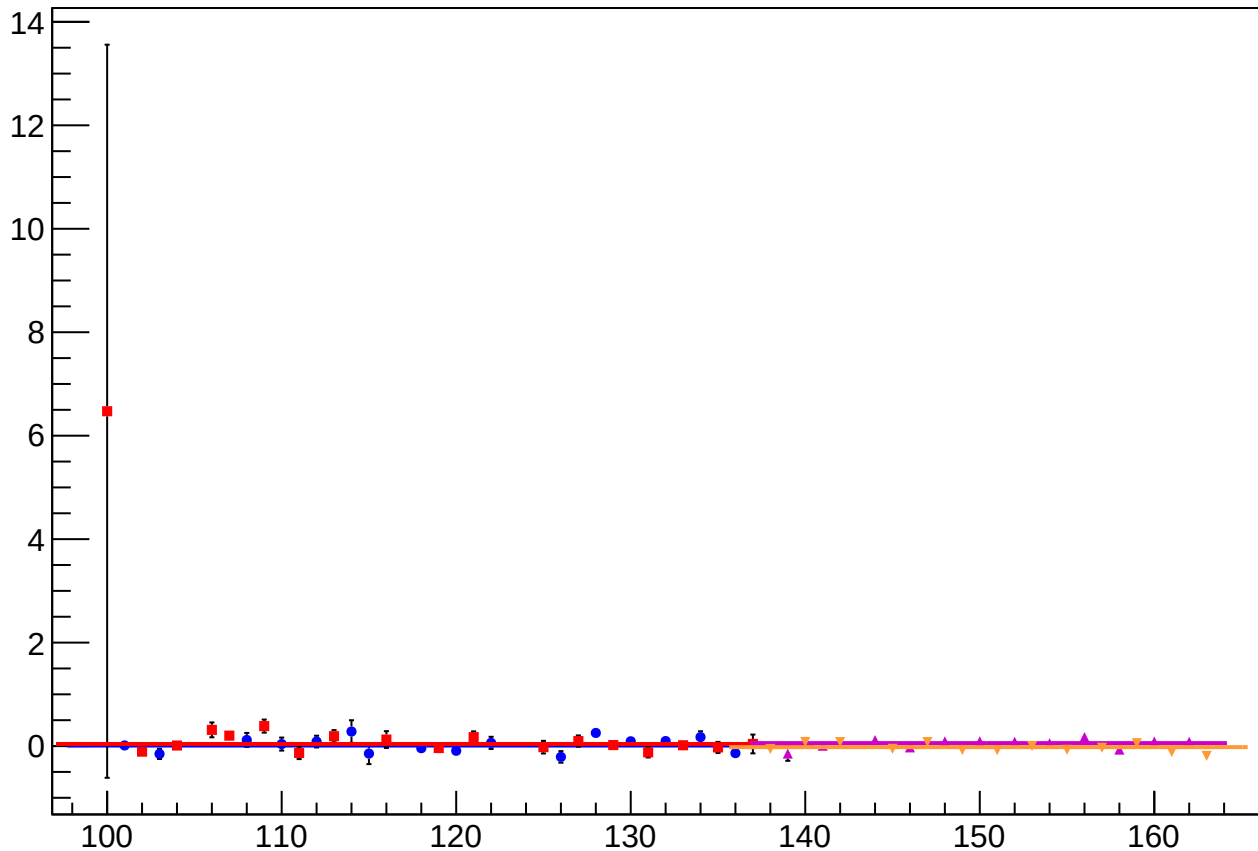
Left In: -0.019+/-0.026  $\chi^2/\text{NDF}$ : 9.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

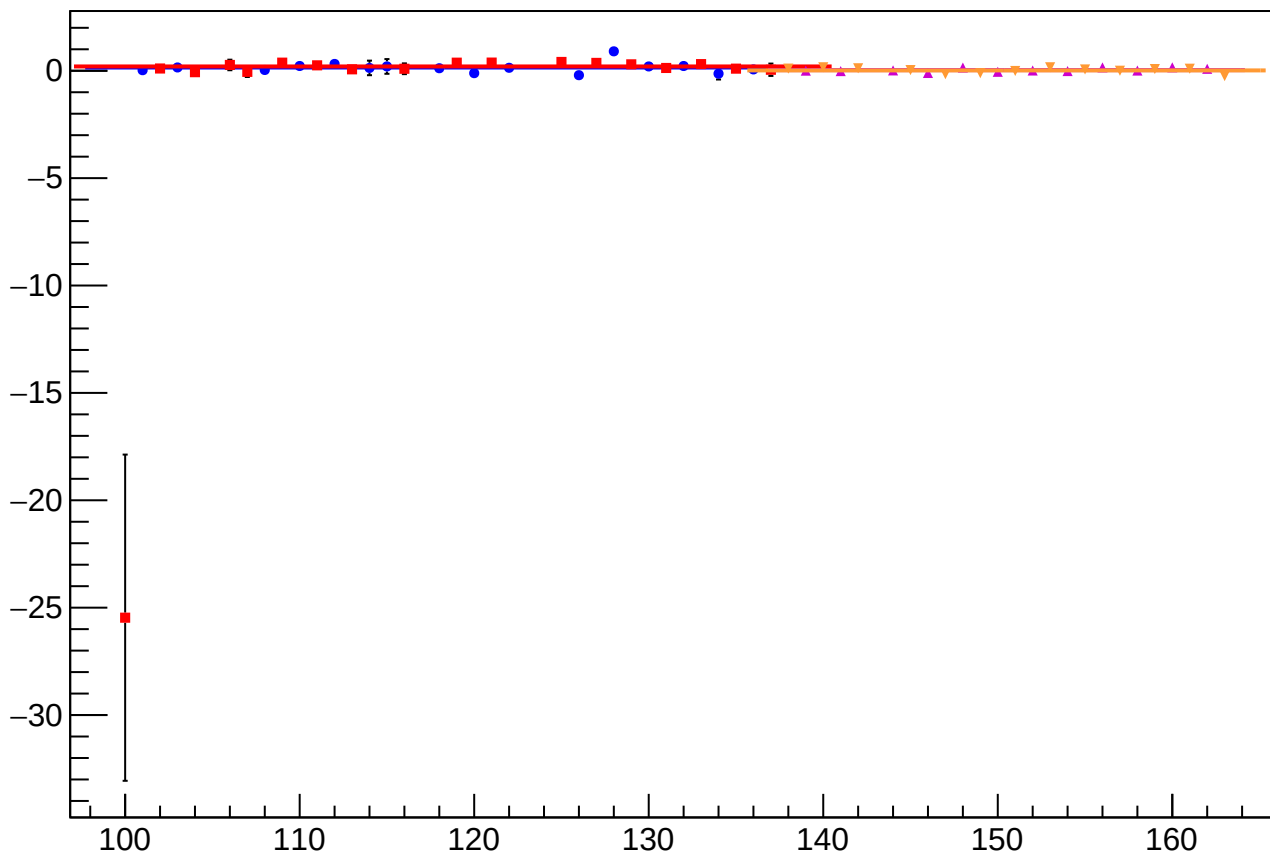
All: -0.018+/-0.019  $\chi^2/\text{NDF}$ : 32.5/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug



# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.152 \pm 0.043$   $\chi^2/\text{NDF}$ : 28.7/15

Left Out:  $0.016 \pm 0.026$   $\chi^2/\text{NDF}$ : 21.6/12

Right Out:  $0.200 \pm 0.045$   $\chi^2/\text{NDF}$ : 22.9/17

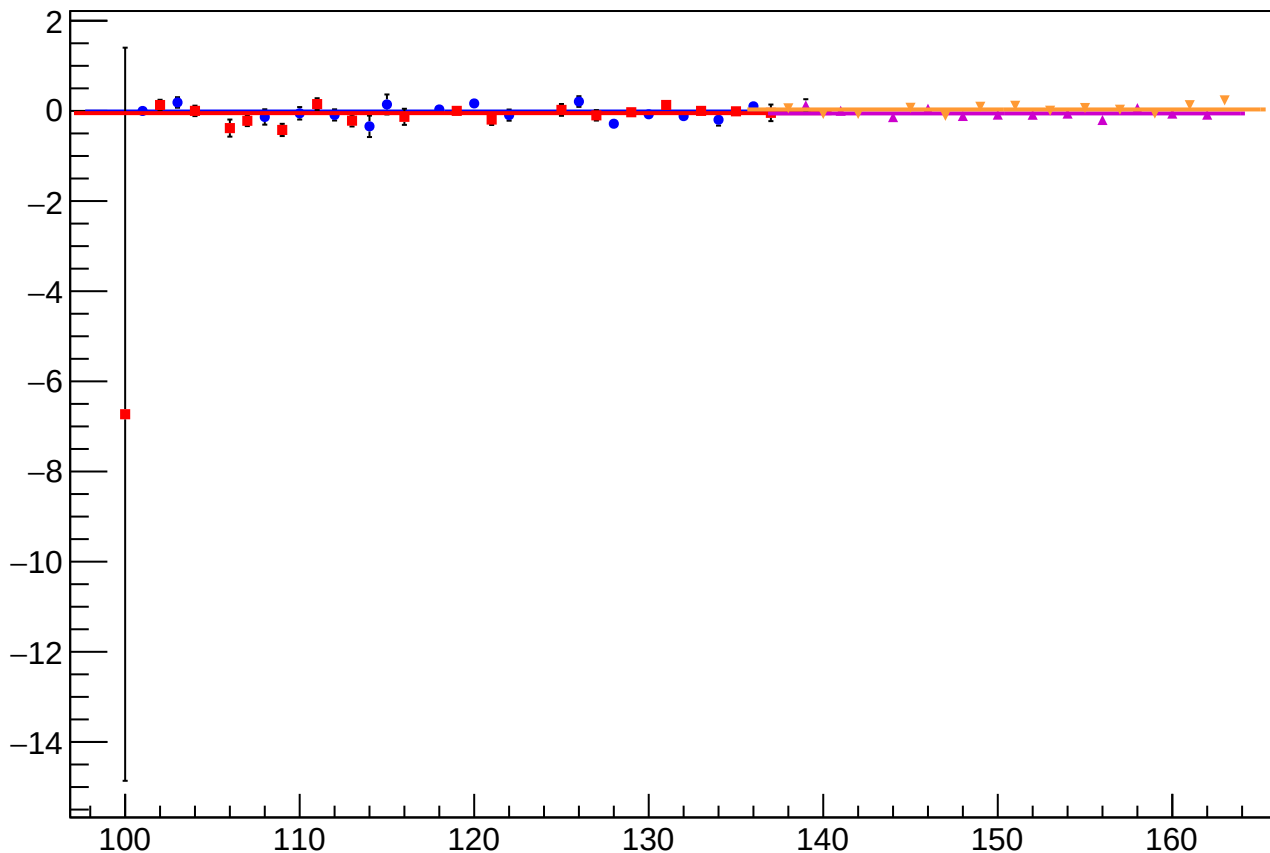
Left In:  $0.031 \pm 0.026$   $\chi^2/\text{NDF}$ : 9.9/11

+ sign  $0.052 \pm 0.022$   $\chi^2/\text{NDF}$ : 57.7/28

All:  $0.062 \pm 0.016$   $\chi^2/\text{NDF}$ : 101.6/58

- sign  $0.073 \pm 0.022$   $\chi^2/\text{NDF}$ : 43.5/29

# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.014 \pm 0.027$   $\chi^2/\text{NDF}$ : 25.2/15

Left Out:  $0.032 \pm 0.022$   $\chi^2/\text{NDF}$ : 20.0/12

Right Out:  $-0.050 \pm 0.029$   $\chi^2/\text{NDF}$ : 25.7/17

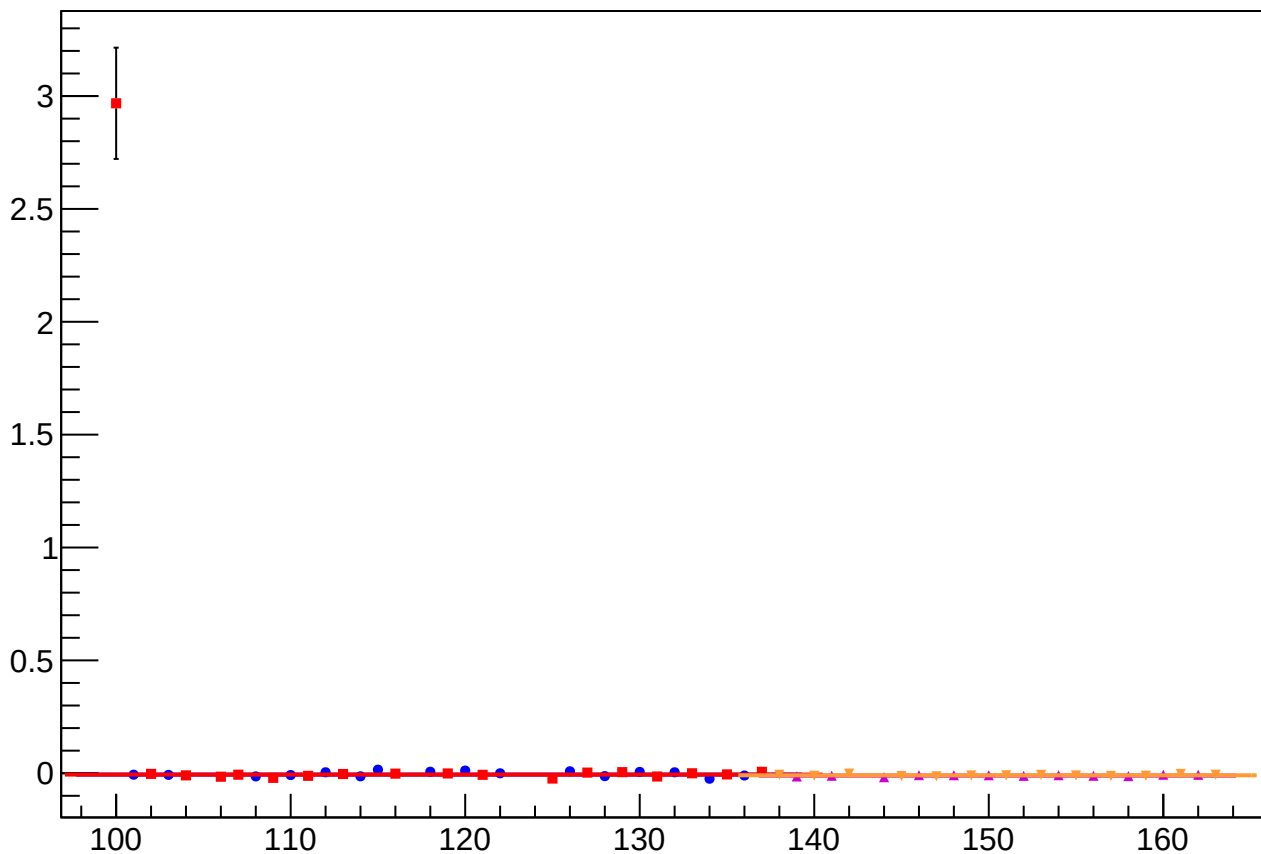
Left In:  $-0.056 \pm 0.022$   $\chi^2/\text{NDF}$ : 13.4/11

+ sign  $0.014 \pm 0.017$   $\chi^2/\text{NDF}$ : 46.9/28

All:  $-0.019 \pm 0.012$   $\chi^2/\text{NDF}$ : 94.0/58

- sign  $-0.054 \pm 0.017$   $\chi^2/\text{NDF}$ : 39.2/29

# reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 29.0/15

Left Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 9.1/12

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}$ : 165.9/17

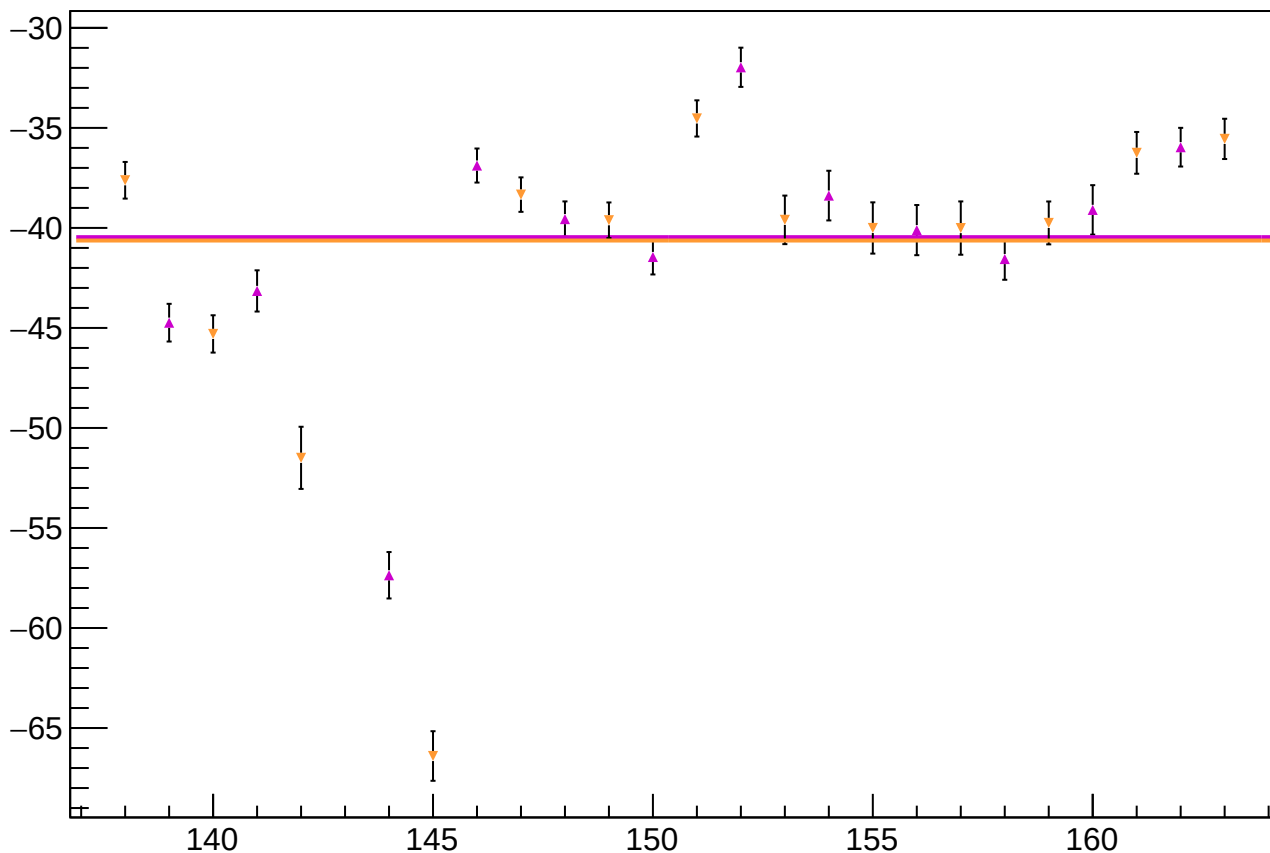
Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 8.4/11

+ sign  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 41.3/28

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 223.0/58

- sign  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 181.0/29

# reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -40.630+/-0.290  $\chi^2/\text{NDF}$ : 615.7/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -40.462+/-0.292  $\chi^2/\text{NDF}$ : 361.4/11

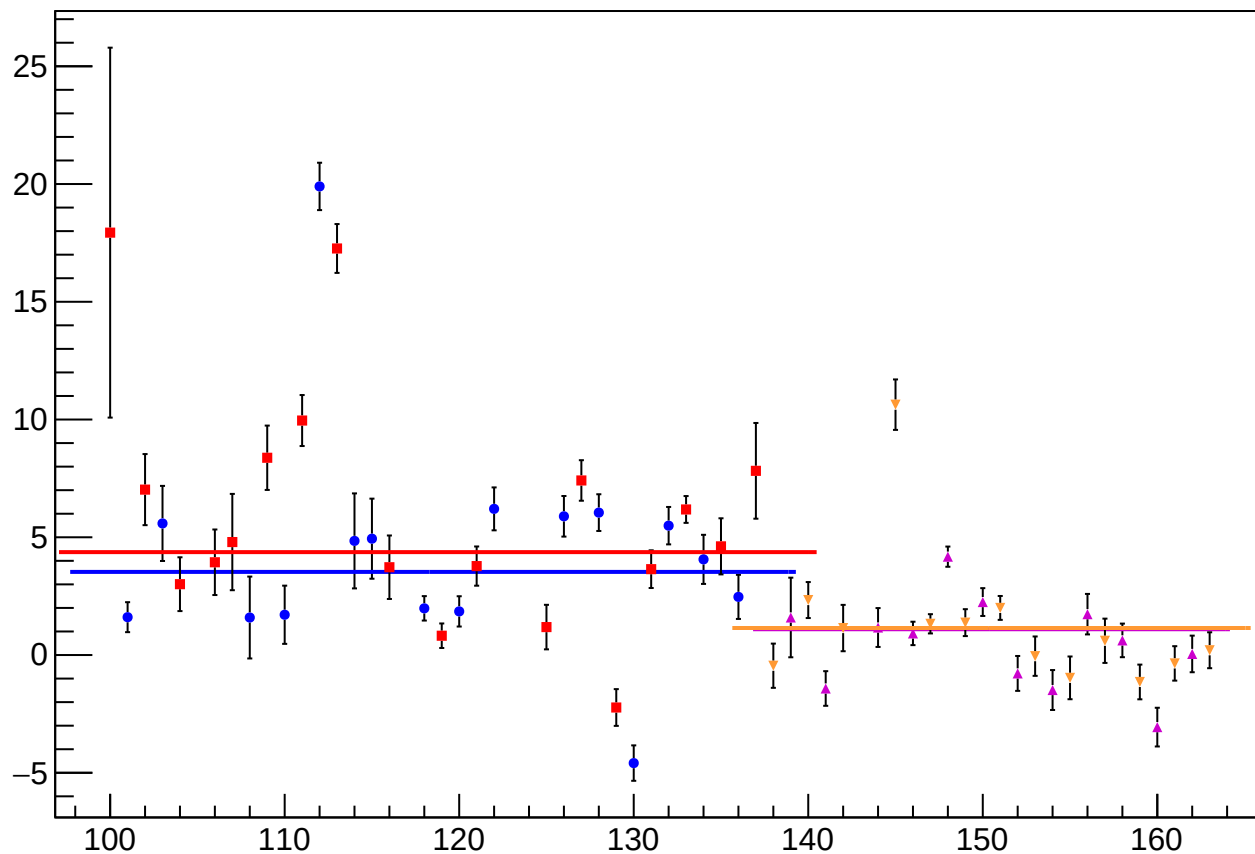
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.547+/-0.206  $\chi^2/\text{NDF}$ : 977.3/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.530 \pm 0.217$   $\chi^2/\text{NDF}$ : 446.6/15

Left Out:  $1.148 \pm 0.193$   $\chi^2/\text{NDF}$ : 110.1/12

Right Out:  $4.370 \pm 0.225$   $\chi^2/\text{NDF}$ : 353.8/17

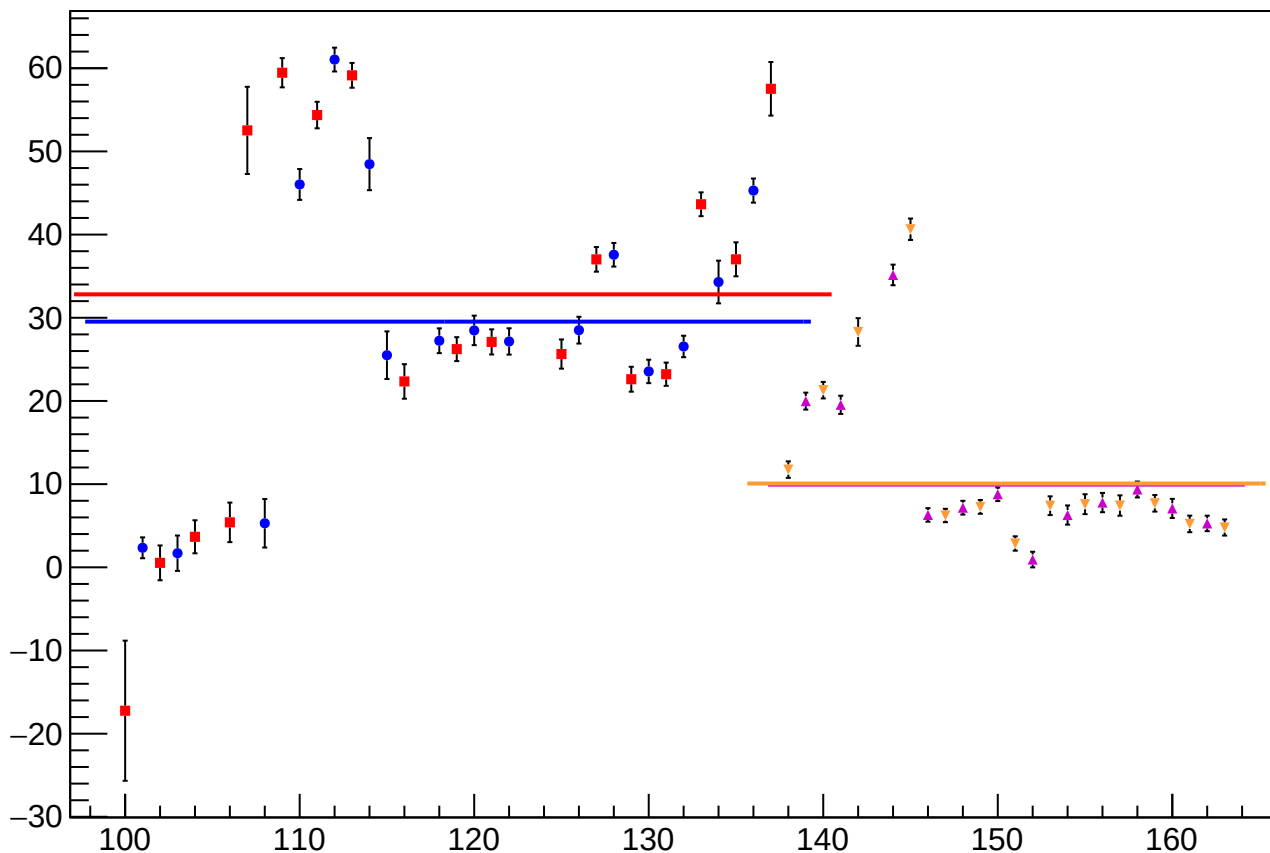
Left In:  $1.095 \pm 0.197$   $\chi^2/\text{NDF}$ : 111.4/11

+ sign  $2.197 \pm 0.144$   $\chi^2/\text{NDF}$ : 623.9/28

All:  $2.352 \pm 0.103$   $\chi^2/\text{NDF}$ : 1211.0/58

- sign  $2.516 \pm 0.148$   $\chi^2/\text{NDF}$ : 584.7/29

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 29.535 $\pm$ 0.417  $\chi^2$ /NDF: 1494.9/15

Left Out: 10.074 $\pm$ 0.282  $\chi^2$ /NDF: 992.4/12

Right Out: 32.816 $\pm$ 0.423  $\chi^2$ /NDF: 1659.3/17

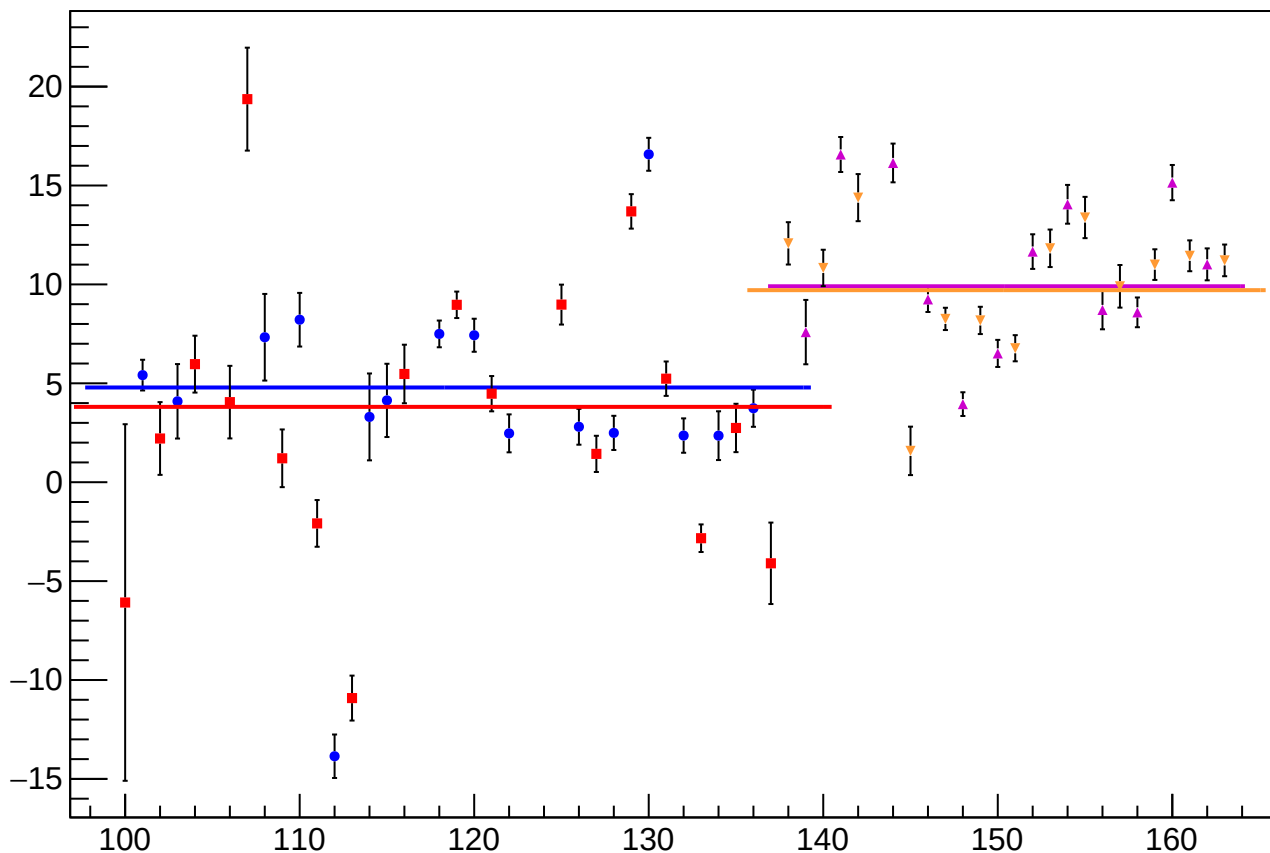
Left In: 9.941 $\pm$ 0.283  $\chi^2$ /NDF: 756.5/11

+ sign 16.194 $\pm$ 0.234  $\chi^2$ /NDF: 3982.1/28

All: 16.595 $\pm$ 0.166  $\chi^2$ /NDF: 8427.1/58

- sign 17.001 $\pm$ 0.235  $\chi^2$ /NDF: 4439.1/29

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.789 \pm 0.251$   $\chi^2/\text{NDF}$ : 553.9/15

Left Out:  $9.709 \pm 0.231$   $\chi^2/\text{NDF}$ : 125.8/12

Right Out:  $3.809 \pm 0.259$   $\chi^2/\text{NDF}$ : 567.6/17

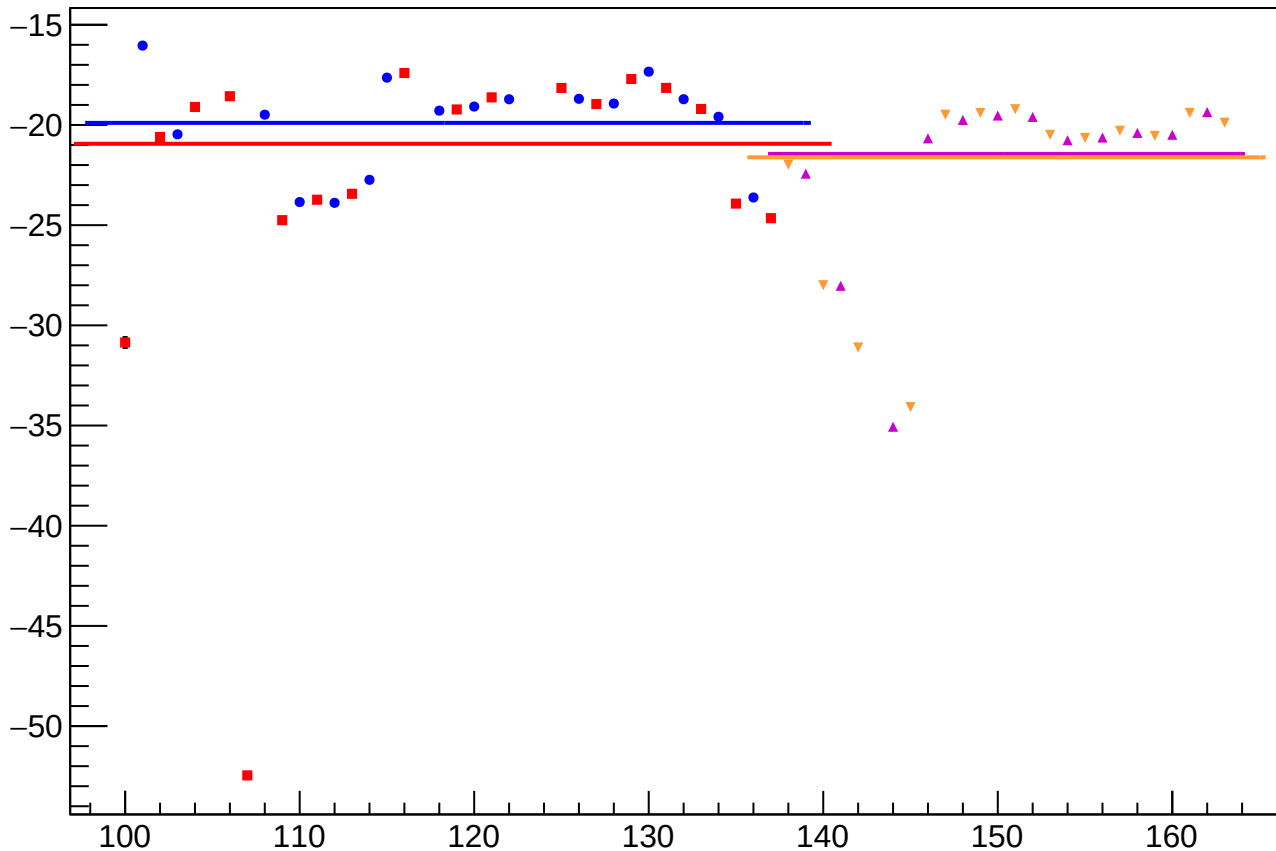
Left In:  $9.906 \pm 0.235$   $\chi^2/\text{NDF}$ : 286.6/11

+ sign  $7.454 \pm 0.170$   $\chi^2/\text{NDF}$ : 887.5/28

All:  $7.303 \pm 0.122$   $\chi^2/\text{NDF}$ : 2046.8/58

- sign  $7.145 \pm 0.174$   $\chi^2/\text{NDF}$ : 1157.7/29

# reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.895 \pm 0.016$   $\chi^2/\text{NDF}$ : 26073.6/15

Left Out:  $-21.616 \pm 0.011$   $\chi^2/\text{NDF}$ : 121704.0/12

Right Out:  $-20.938 \pm 0.016$   $\chi^2/\text{NDF}$ : 94065.2/17

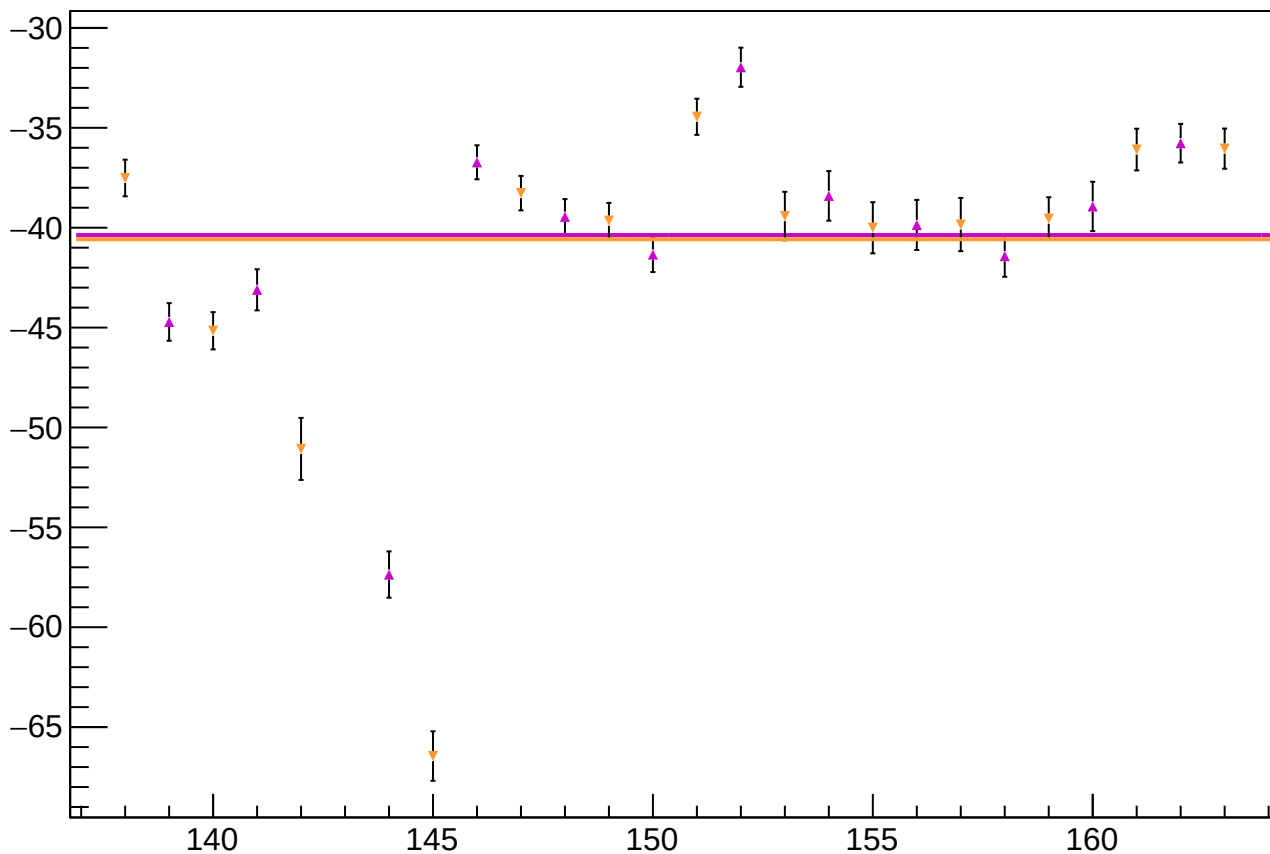
Left In:  $-21.444 \pm 0.011$   $\chi^2/\text{NDF}$ : 98912.3/11

+ sign  $-21.028 \pm 0.009$   $\chi^2/\text{NDF}$ : 155822.3/28

All:  $-21.152 \pm 0.006$   $\chi^2/\text{NDF}$ : 349858.4/58

- sign  $-21.275 \pm 0.009$   $\chi^2/\text{NDF}$ : 193666.6/29

# reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -40.577+/-0.290  $\chi^2/\text{NDF}$ : 612.6/12

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

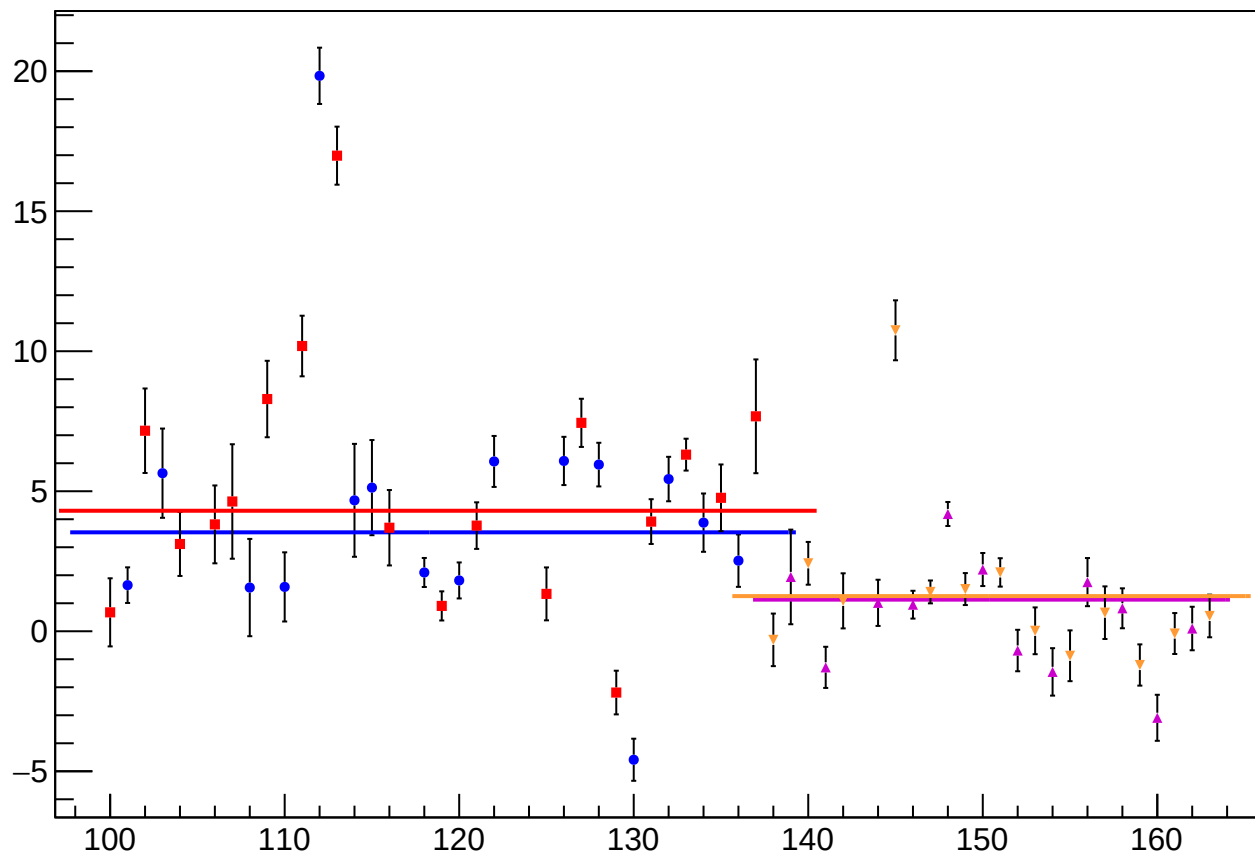
Left In: -40.366+/-0.291  $\chi^2/\text{NDF}$ : 365.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -40.472+/-0.206  $\chi^2/\text{NDF}$ : 977.8/24

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.532 \pm 0.217$   $\chi^2/\text{NDF}$ : 443.2/15

Left Out:  $1.255 \pm 0.193$   $\chi^2/\text{NDF}$ : 110.4/12

Right Out:  $4.303 \pm 0.222$   $\chi^2/\text{NDF}$ : 352.8/17

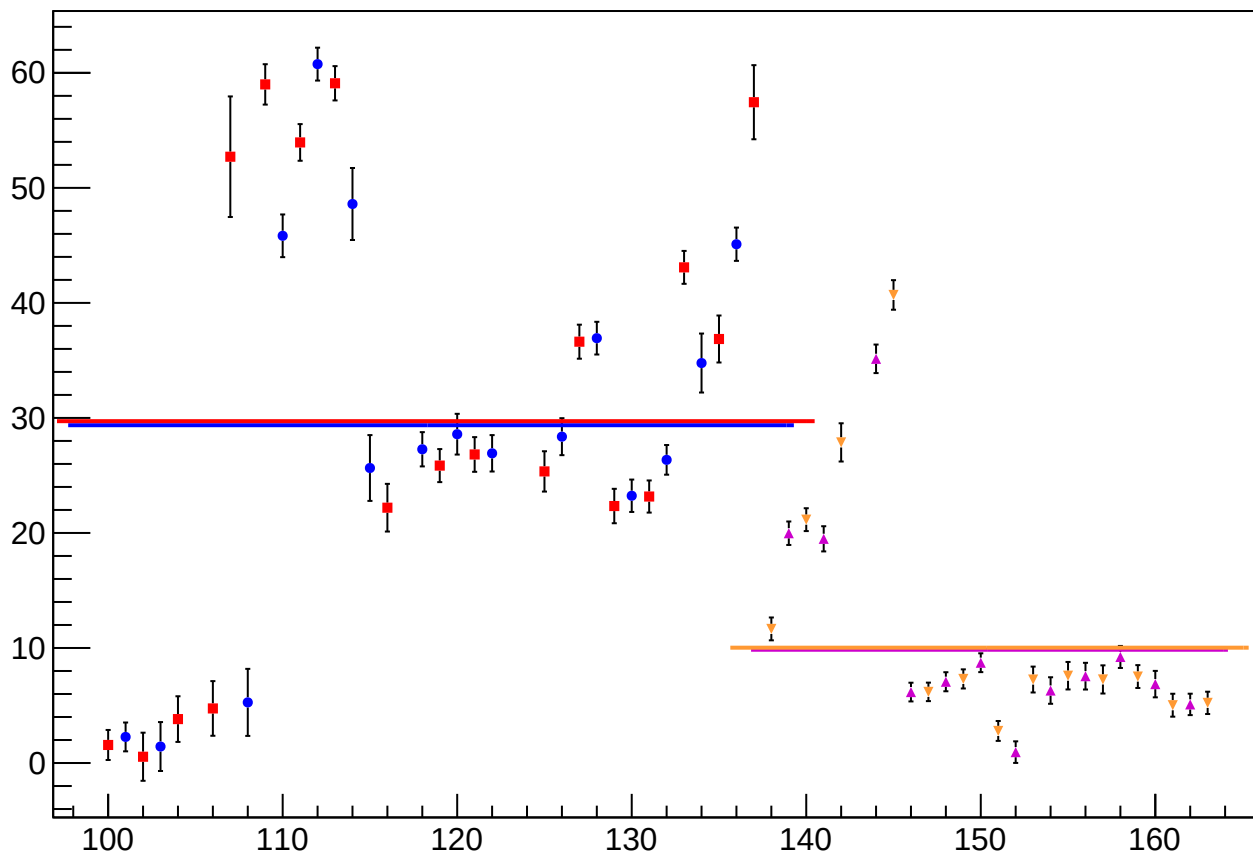
Left In:  $1.129 \pm 0.197$   $\chi^2/\text{NDF}$ : 109.6/11

+ sign  $2.258 \pm 0.144$   $\chi^2/\text{NDF}$ : 615.1/28

All:  $2.392 \pm 0.103$   $\chi^2/\text{NDF}$ : 1193.8/58

- sign  $2.532 \pm 0.147$   $\chi^2/\text{NDF}$ : 576.9/29

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 29.367 $\pm$ 0.416  $\chi^2$ /NDF: 1488.7/15

Left Out: 10.026 $\pm$ 0.282  $\chi^2$ /NDF: 987.7/12

Right Out: 29.719 $\pm$ 0.402  $\chi^2$ /NDF: 2129.5/17

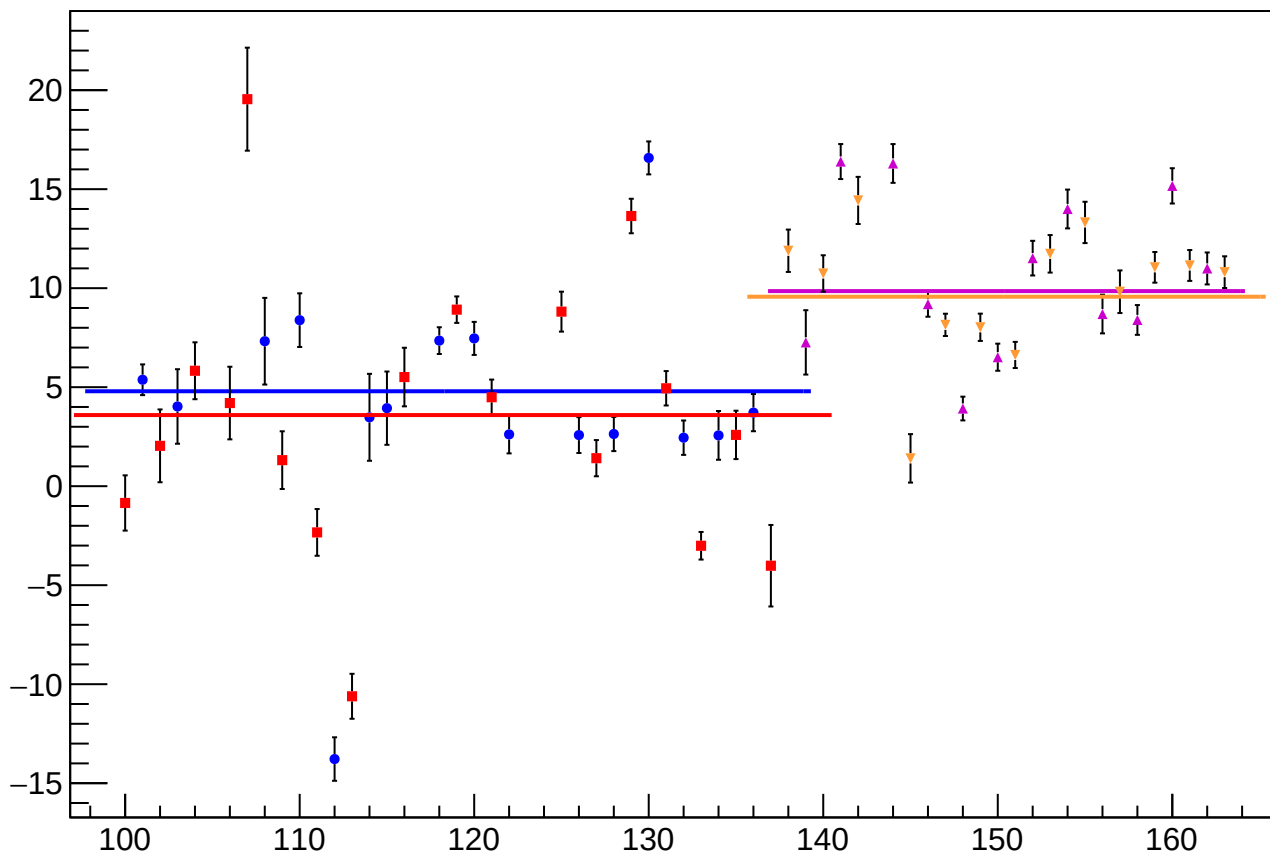
Left In: 9.847 $\pm$ 0.282  $\chi^2$ /NDF: 762.3/11

+ sign 16.109 $\pm$ 0.234  $\chi^2$ /NDF: 3954.7/28

All: 16.257 $\pm$ 0.164  $\chi^2$ /NDF: 8481.2/58

- sign 16.402 $\pm$ 0.231  $\chi^2$ /NDF: 4525.7/29

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $4.794 \pm 0.251$   $\chi^2/\text{NDF}$ : 550.0/15

Left Out:  $9.569 \pm 0.231$   $\chi^2/\text{NDF}$ : 127.1/12

Right Out:  $3.591 \pm 0.254$   $\chi^2/\text{NDF}$ : 573.3/17

Left In:  $9.852 \pm 0.235$   $\chi^2/\text{NDF}$ : 287.8/11

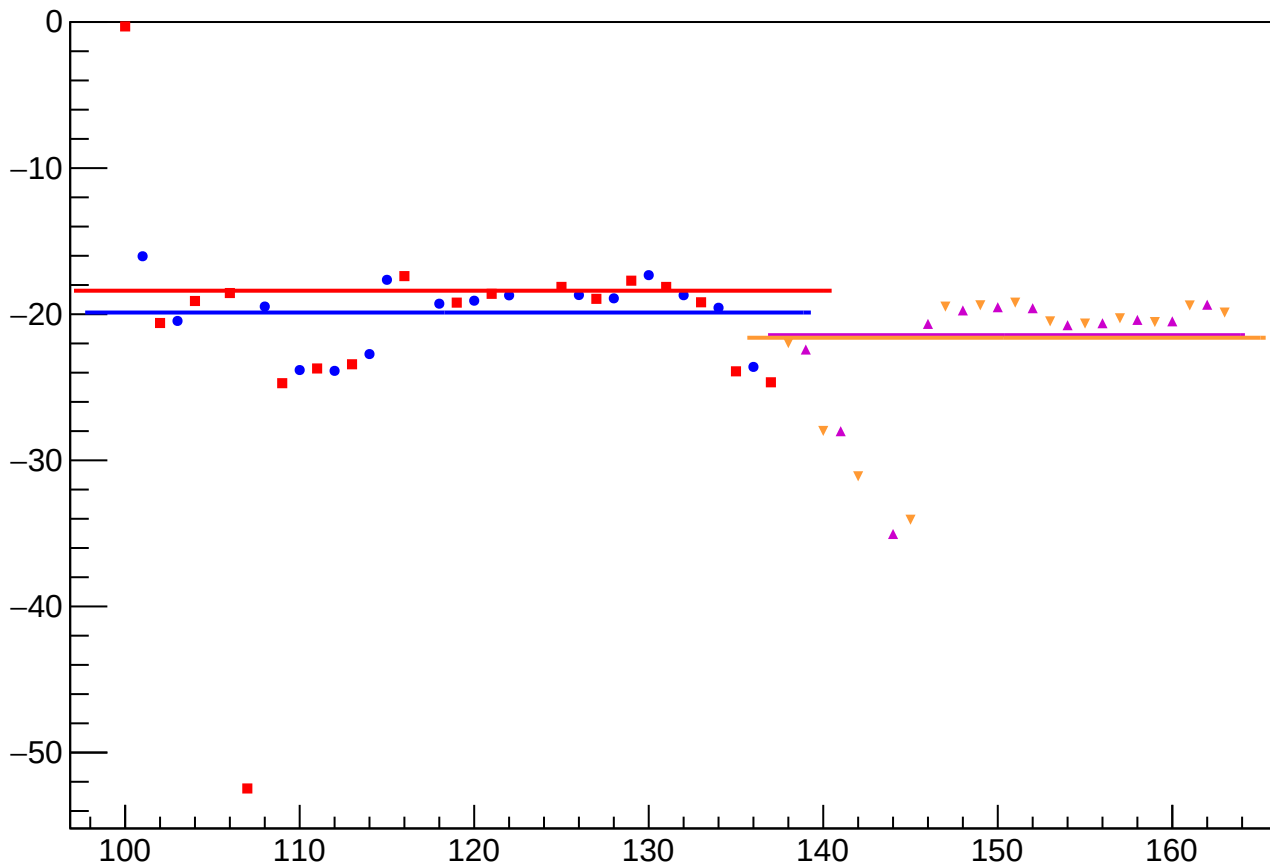
+ sign  $7.380 \pm 0.170$   $\chi^2/\text{NDF}$ : 873.0/28

All:  $7.176 \pm 0.121$   $\chi^2/\text{NDF}$ : 2063.4/58

- sign  $6.966 \pm 0.173$   $\chi^2/\text{NDF}$ : 1187.4/29



# reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-19.883 \pm 0.016$   $\chi^2/\text{NDF}: 26063.5/15$

Left Out:  $-21.609 \pm 0.011$   $\chi^2/\text{NDF}: 121741.6/12$

Right Out:  $-18.390 \pm 0.015$   $\chi^2/\text{NDF}: 301247.7/17$

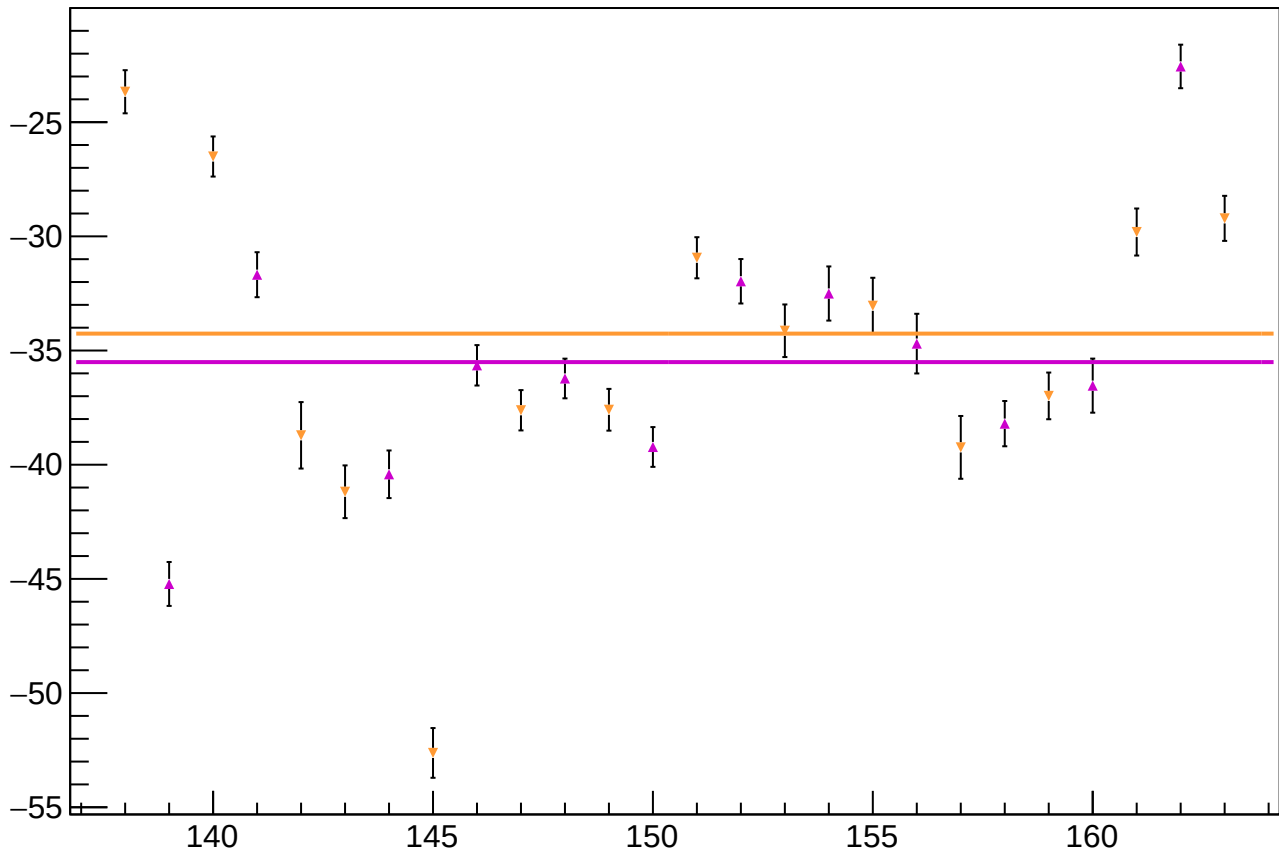
Left In:  $-21.434 \pm 0.011$   $\chi^2/\text{NDF}: 98842.7/11$

+ sign  $-21.019 \pm 0.009$   $\chi^2/\text{NDF}: 155905.4/28$

All:  $-20.667 \pm 0.006$   $\chi^2/\text{NDF}: 586138.8/58$

- sign  $-20.331 \pm 0.009$   $\chi^2/\text{NDF}: 427300.5/29$

# reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.259+/-0.277  $\chi^2/\text{NDF}$ : 640.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

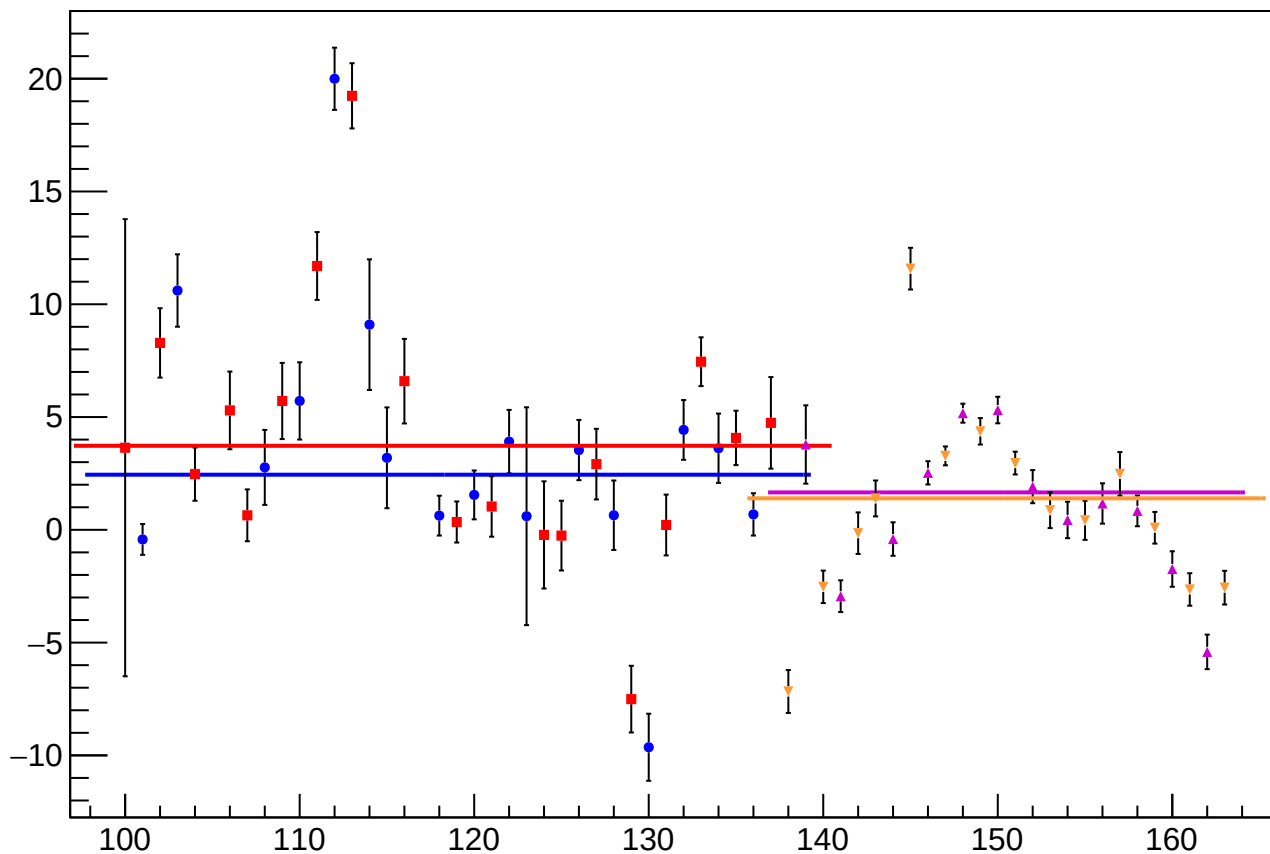
Left In: -35.507+/-0.287  $\chi^2/\text{NDF}$ : 370.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.860+/-0.199  $\chi^2/\text{NDF}$ : 1021.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.444 \pm 0.311$   $\chi^2/\text{NDF}$ : 295.3/16

Left Out:  $1.397 \pm 0.185$   $\chi^2/\text{NDF}$ : 356.5/13

Right Out:  $3.726 \pm 0.327$   $\chi^2/\text{NDF}$ : 269.1/18

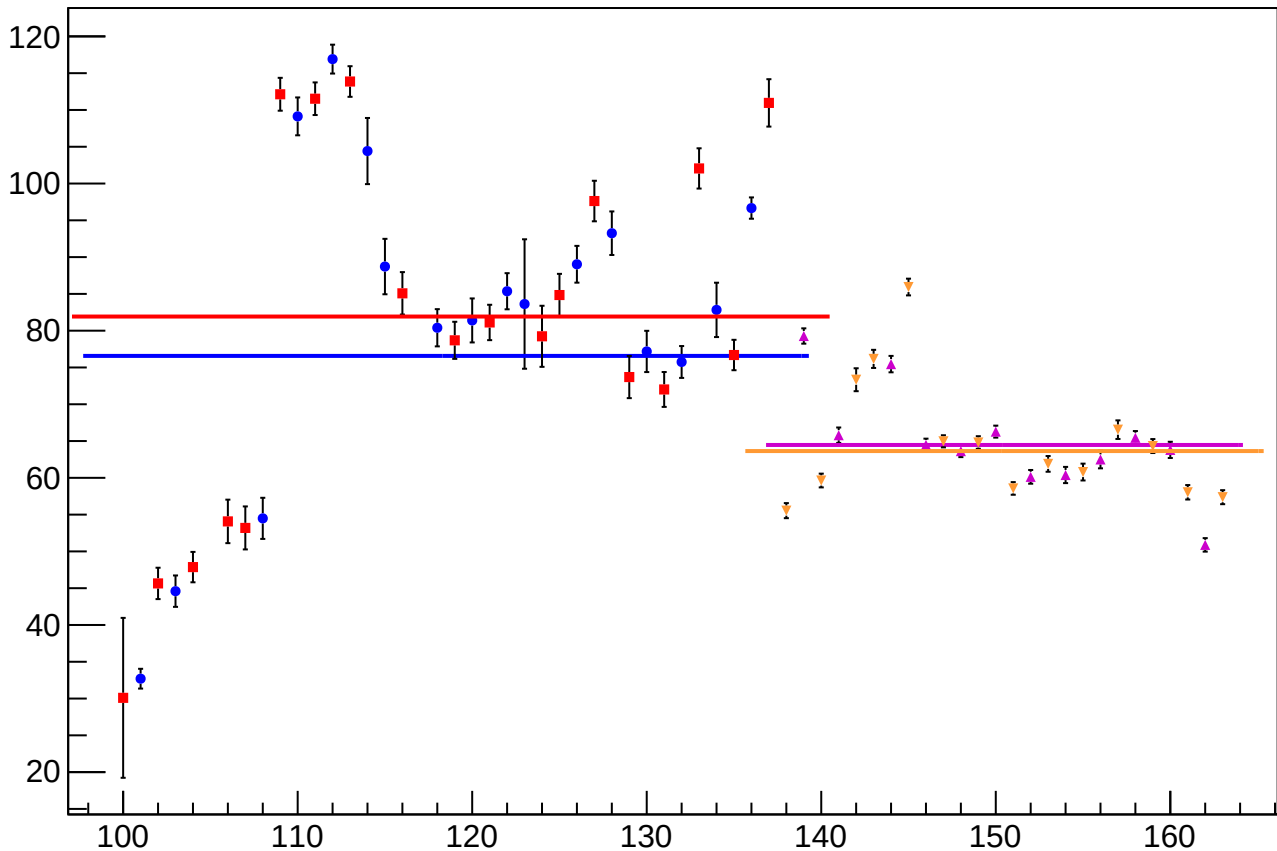
Left In:  $1.658 \pm 0.194$   $\chi^2/\text{NDF}$ : 270.9/11

+ sign  $1.670 \pm 0.159$   $\chi^2/\text{NDF}$ : 660.2/30

All:  $1.921 \pm 0.115$   $\chi^2/\text{NDF}$ : 1235.0/61

- sign  $2.197 \pm 0.167$   $\chi^2/\text{NDF}$ : 569.6/30

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $76.572 \pm 0.573$   $\chi^2/\text{NDF}: 2253.6/16$

Left Out:  $63.638 \pm 0.271$   $\chi^2/\text{NDF}: 737.2/13$

Right Out:  $81.923 \pm 0.592$   $\chi^2/\text{NDF}: 1570.6/18$

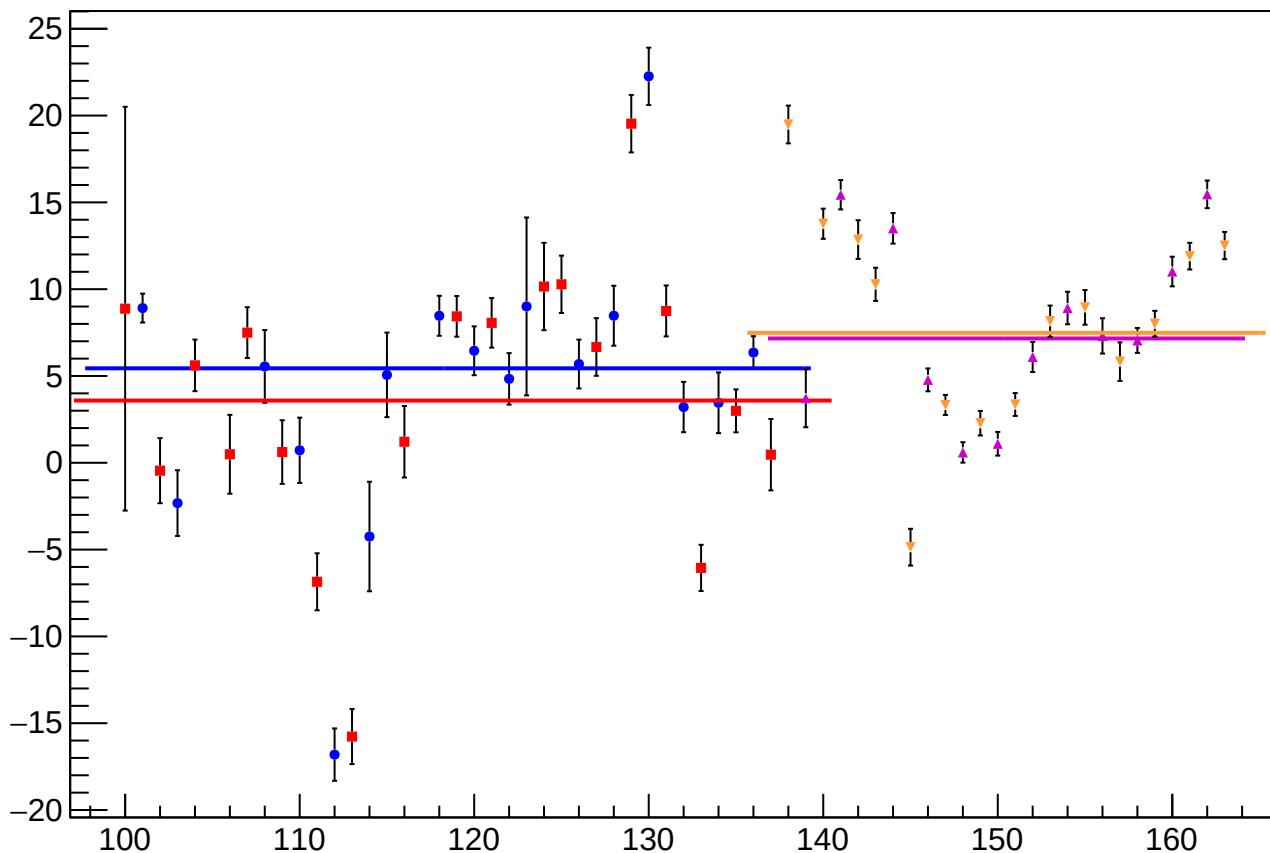
Left In:  $64.467 \pm 0.278$   $\chi^2/\text{NDF}: 565.5/11$

+ sign  $65.995 \pm 0.245$   $\chi^2/\text{NDF}: 3407.0/30$

All:  $66.788 \pm 0.176$   $\chi^2/\text{NDF}: 6277.0/61$

- sign  $67.626 \pm 0.252$   $\chi^2/\text{NDF}: 2848.4/30$

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 5.442 $\pm$ 0.357     $\chi^2/\text{NDF}$ : 387.5/16

Left Out: 7.486 $\pm$ 0.221     $\chi^2/\text{NDF}$ : 566.5/13

Right Out: 3.585 $\pm$ 0.375     $\chi^2/\text{NDF}$ : 423.2/18

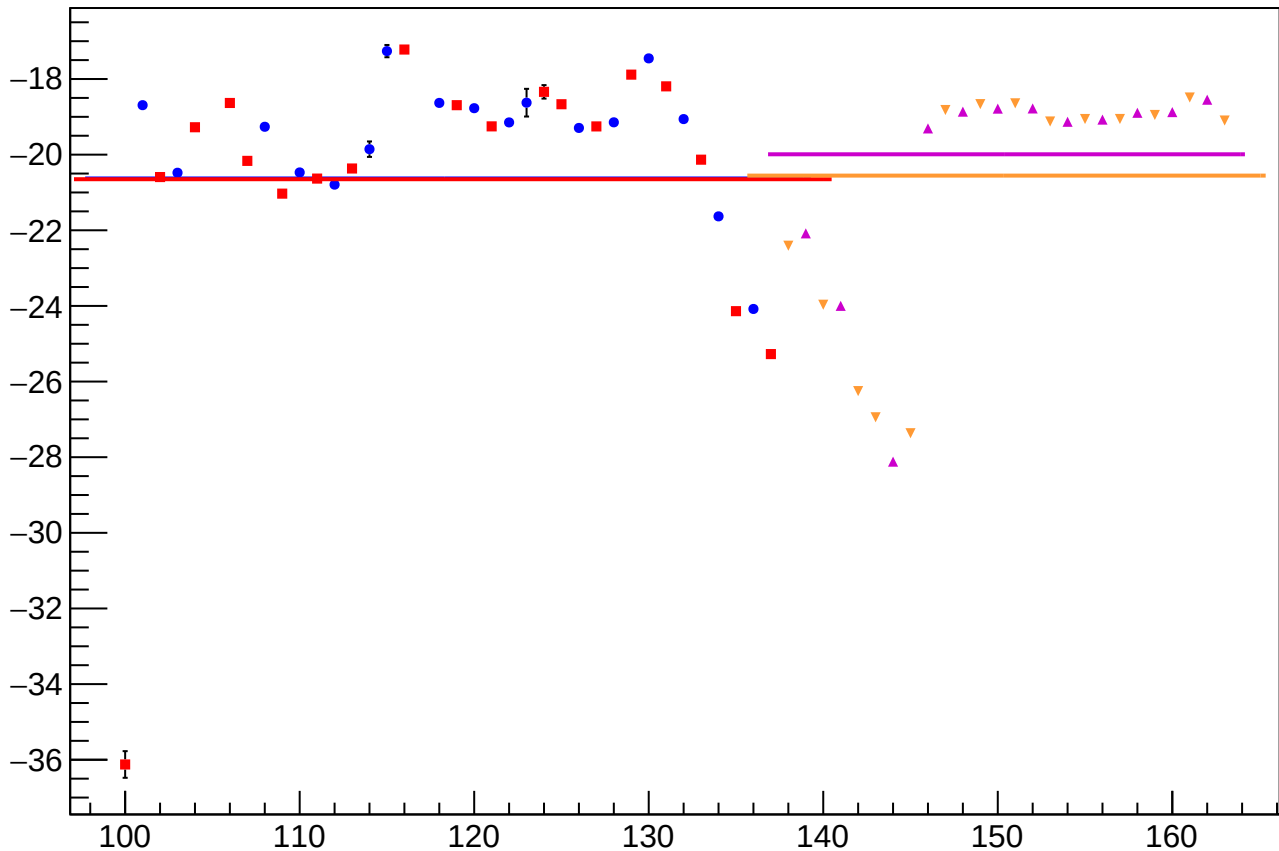
Left In: 7.161 $\pm$ 0.231     $\chi^2/\text{NDF}$ : 502.4/11

+ sign 6.920 $\pm$ 0.188     $\chi^2/\text{NDF}$ : 977.6/30

All: 6.566 $\pm$ 0.136     $\chi^2/\text{NDF}$ : 1976.5/61

- sign 6.177 $\pm$ 0.197     $\chi^2/\text{NDF}$ : 991.4/30

# reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.630 \pm 0.019$   $\chi^2/\text{NDF}: 12490.5/16$

Left Out:  $-20.554 \pm 0.011$   $\chi^2/\text{NDF}: 75259.0/13$

Right Out:  $-20.650 \pm 0.019$   $\chi^2/\text{NDF}: 13885.7/18$

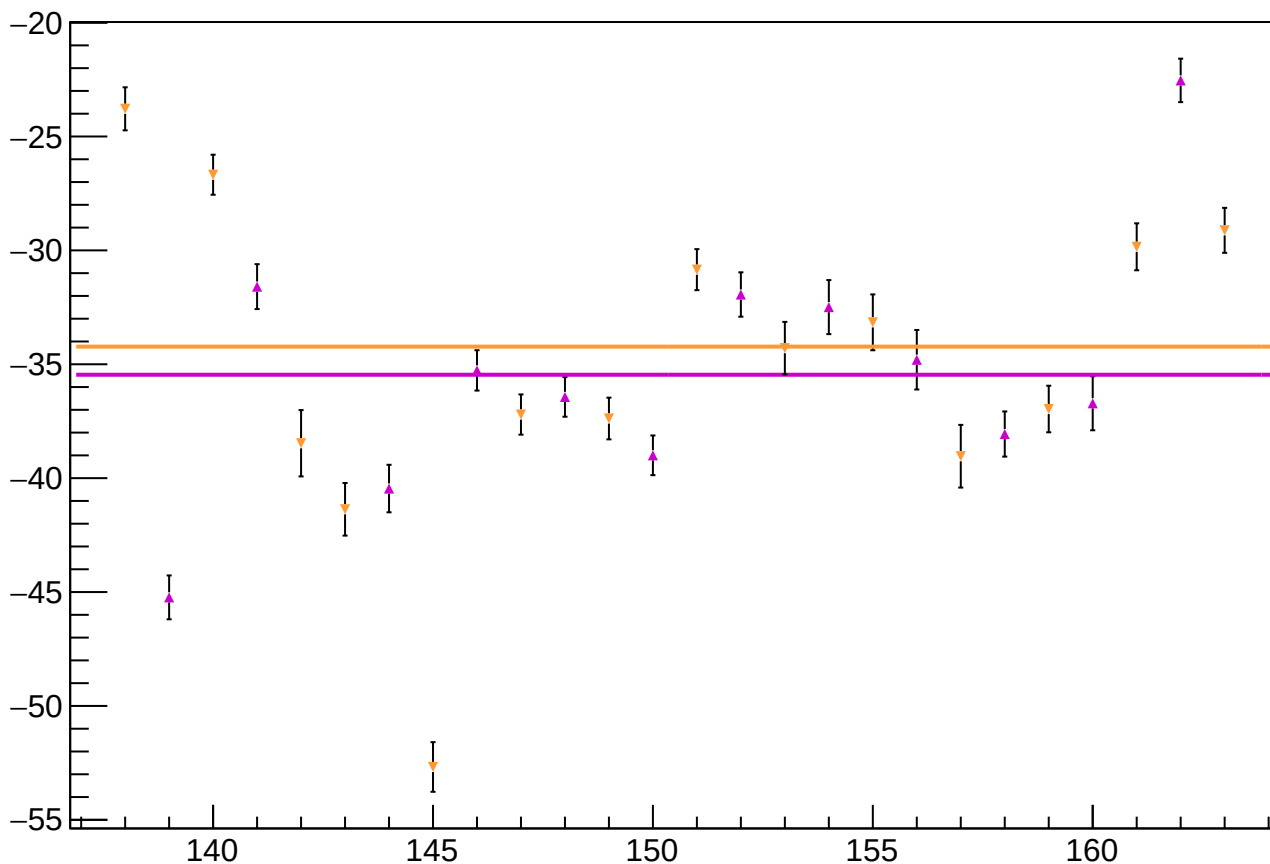
Left In:  $-19.991 \pm 0.011$   $\chi^2/\text{NDF}: 48056.8/11$

+ sign  $-20.572 \pm 0.009$   $\chi^2/\text{NDF}: 87761.5/30$

All:  $-20.364 \pm 0.007$   $\chi^2/\text{NDF}: 151576.1/61$

- sign  $-20.149 \pm 0.010$   $\chi^2/\text{NDF}: 62815.8/30$

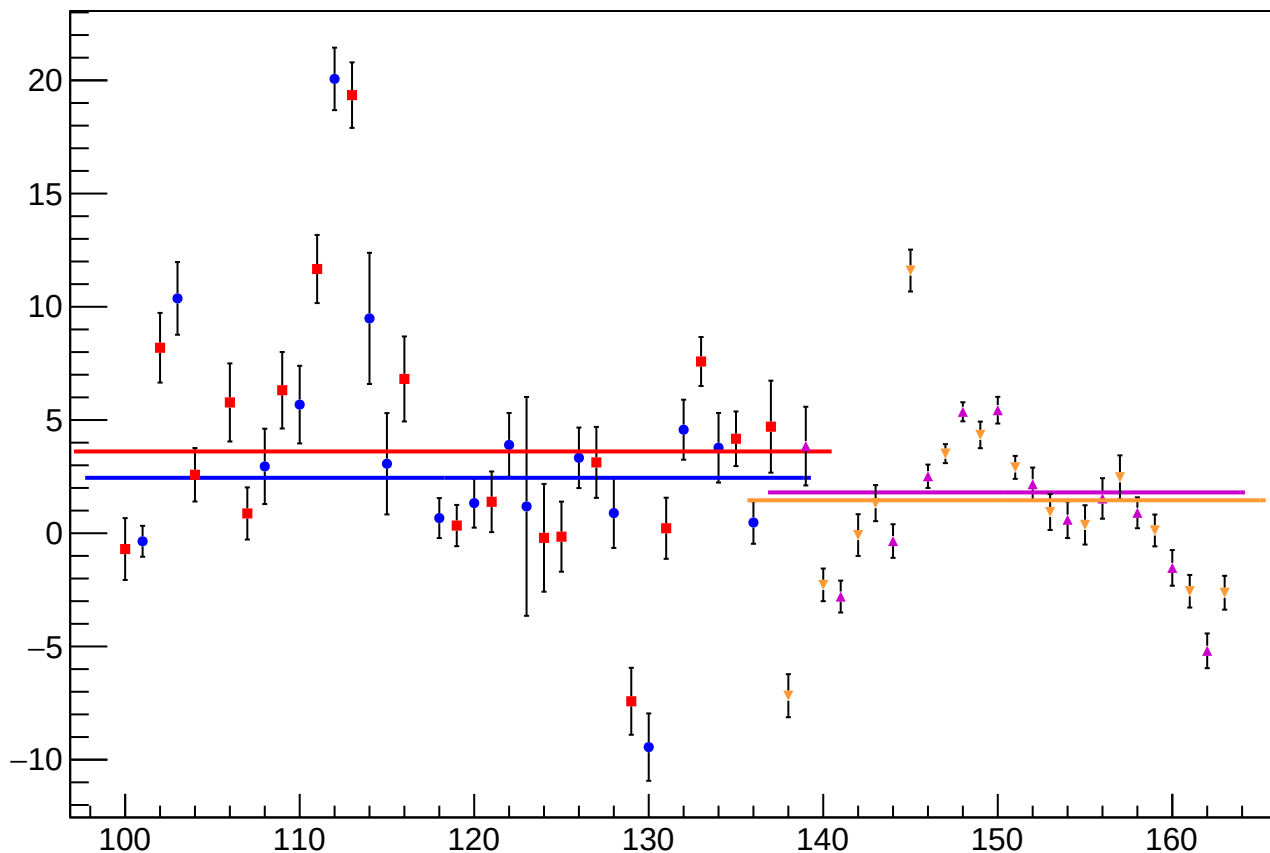
# reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -34.225+/-0.277  $\chi^2/\text{NDF}$ : 631.6/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -35.460+/-0.287  $\chi^2/\text{NDF}$ : 370.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -34.820+/-0.199  $\chi^2/\text{NDF}$ : 1011.5/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $2.448 \pm 0.311$   $\chi^2/\text{NDF}$ : 293.4/16

Left Out:  $1.455 \pm 0.185$   $\chi^2/\text{NDF}$ : 356.7/13

Right Out:  $3.611 \pm 0.318$   $\chi^2/\text{NDF}$ : 279.4/18

Left In:  $1.803 \pm 0.194$   $\chi^2/\text{NDF}$ : 269.3/11

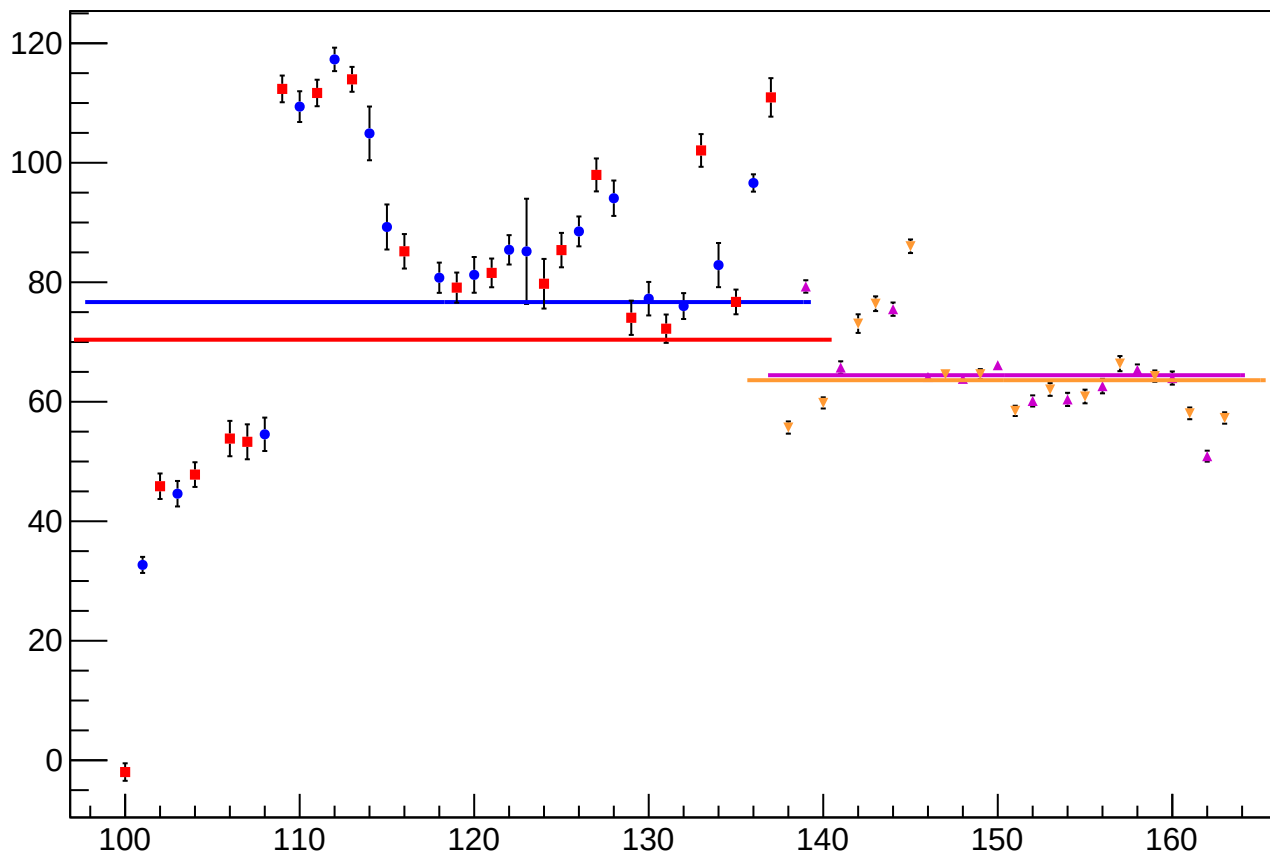
+ sign  $1.715 \pm 0.159$   $\chi^2/\text{NDF}$ : 657.5/30

All:  $1.992 \pm 0.115$   $\chi^2/\text{NDF}$ : 1236.1/61

- sign  $2.293 \pm 0.166$   $\chi^2/\text{NDF}$ : 572.2/30



# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 76.687 $\pm$ 0.574  $\chi^2$ /NDF: 2265.1/16

Left Out: 63.608 $\pm$ 0.271  $\chi^2$ /NDF: 736.7/13

Right Out: 70.386 $\pm$ 0.550  $\chi^2$ /NDF: 4391.1/18

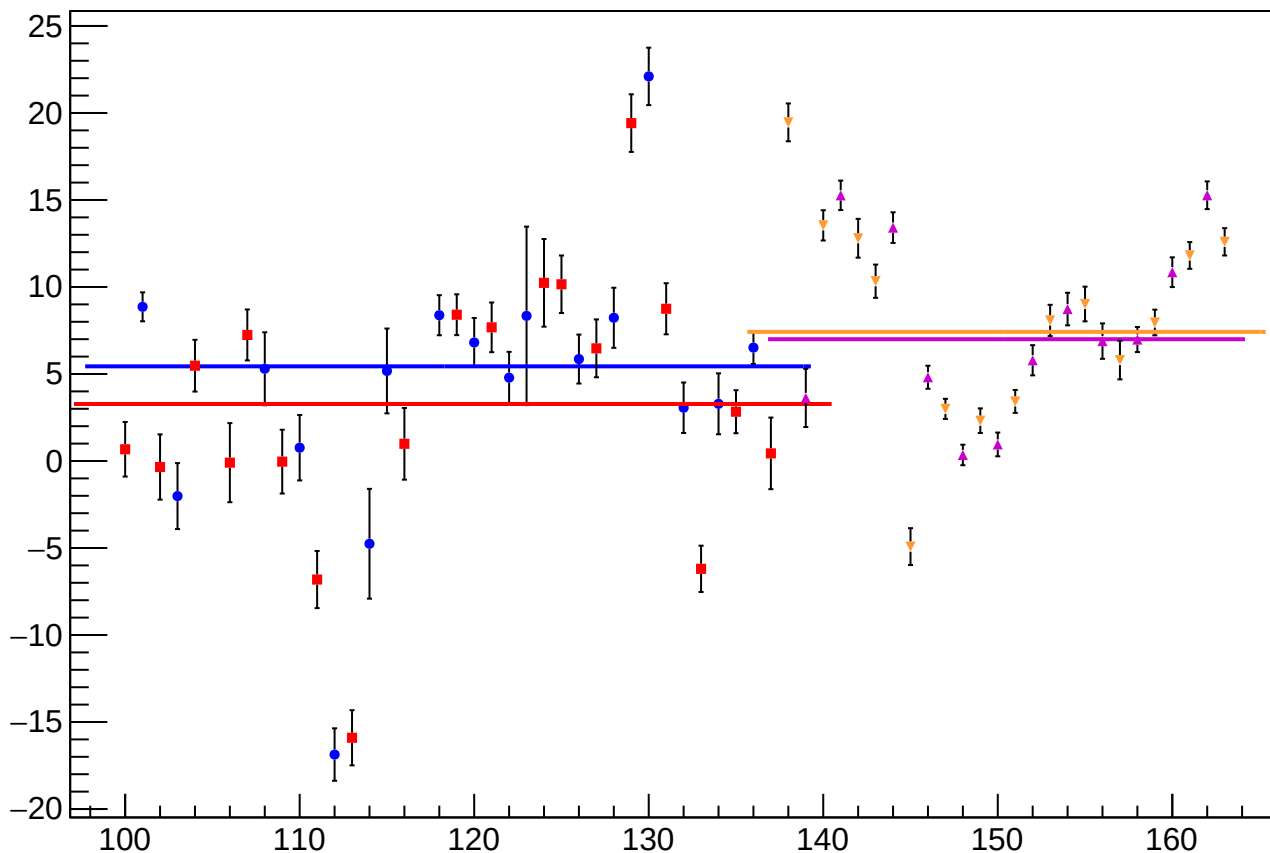
Left In: 64.444 $\pm$ 0.278  $\chi^2$ /NDF: 563.8/11

+ sign 65.992 $\pm$ 0.245  $\chi^2$ /NDF: 3426.8/30

All: 65.827 $\pm$ 0.174  $\chi^2$ /NDF: 8475.6/61

- sign 65.657 $\pm$ 0.248  $\chi^2$ /NDF: 5047.9/30

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $5.439 \pm 0.357$   $\chi^2/\text{NDF}: 385.9/16$

Left Out:  $7.421 \pm 0.221$   $\chi^2/\text{NDF}: 569.5/13$

Right Out:  $3.275 \pm 0.365$   $\chi^2/\text{NDF}: 425.8/18$

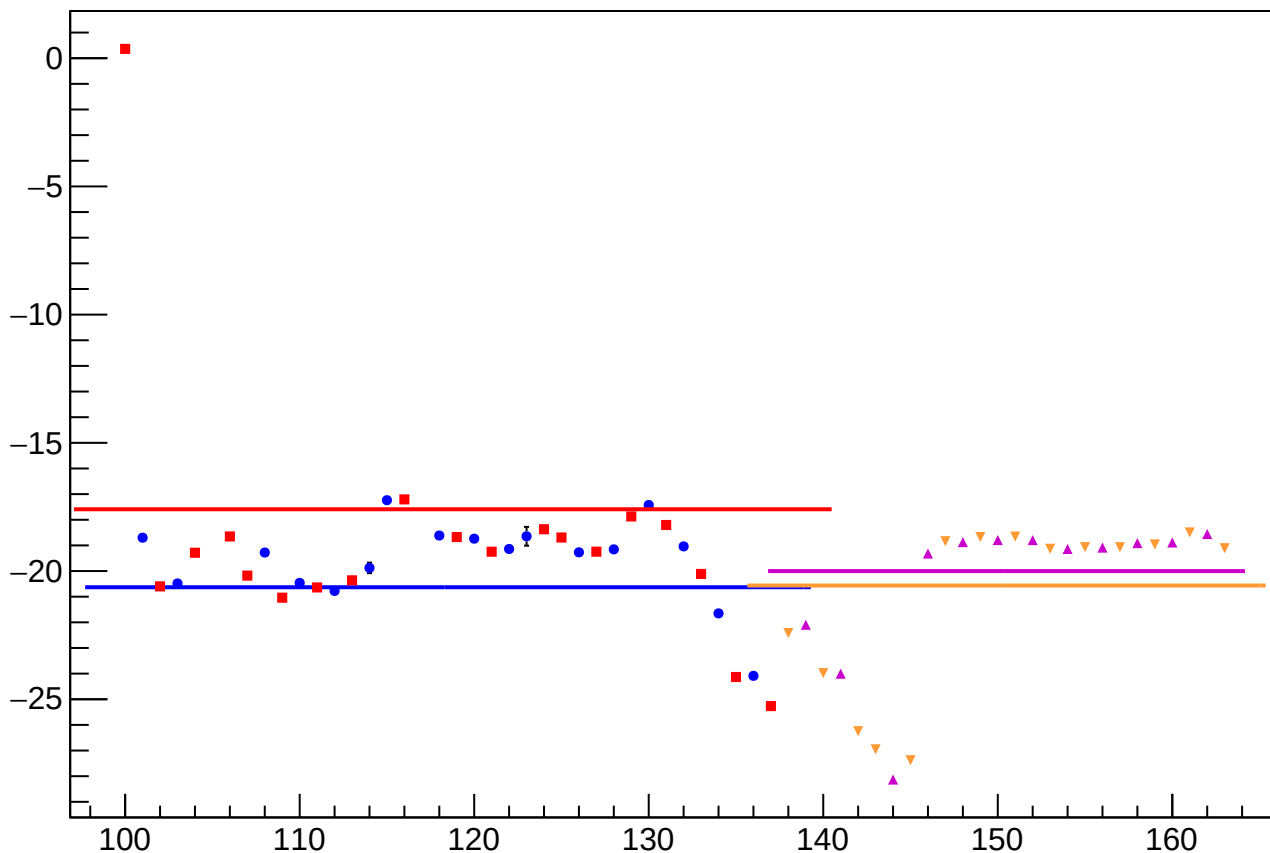
Left In:  $6.999 \pm 0.231$   $\chi^2/\text{NDF}: 502.8/11$

+ sign  $6.873 \pm 0.188$   $\chi^2/\text{NDF}: 977.6/30$

All:  $6.421 \pm 0.136$   $\chi^2/\text{NDF}: 1992.4/61$

- sign  $5.933 \pm 0.196$   $\chi^2/\text{NDF}: 1002.8/30$

# reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-20.632 \pm 0.019$   $\chi^2/\text{NDF}$ : 12530.8/16

Left Out:  $-20.564 \pm 0.011$   $\chi^2/\text{NDF}$ : 75100.5/13

Right Out:  $-17.591 \pm 0.018$   $\chi^2/\text{NDF}$ : 178680.7/18

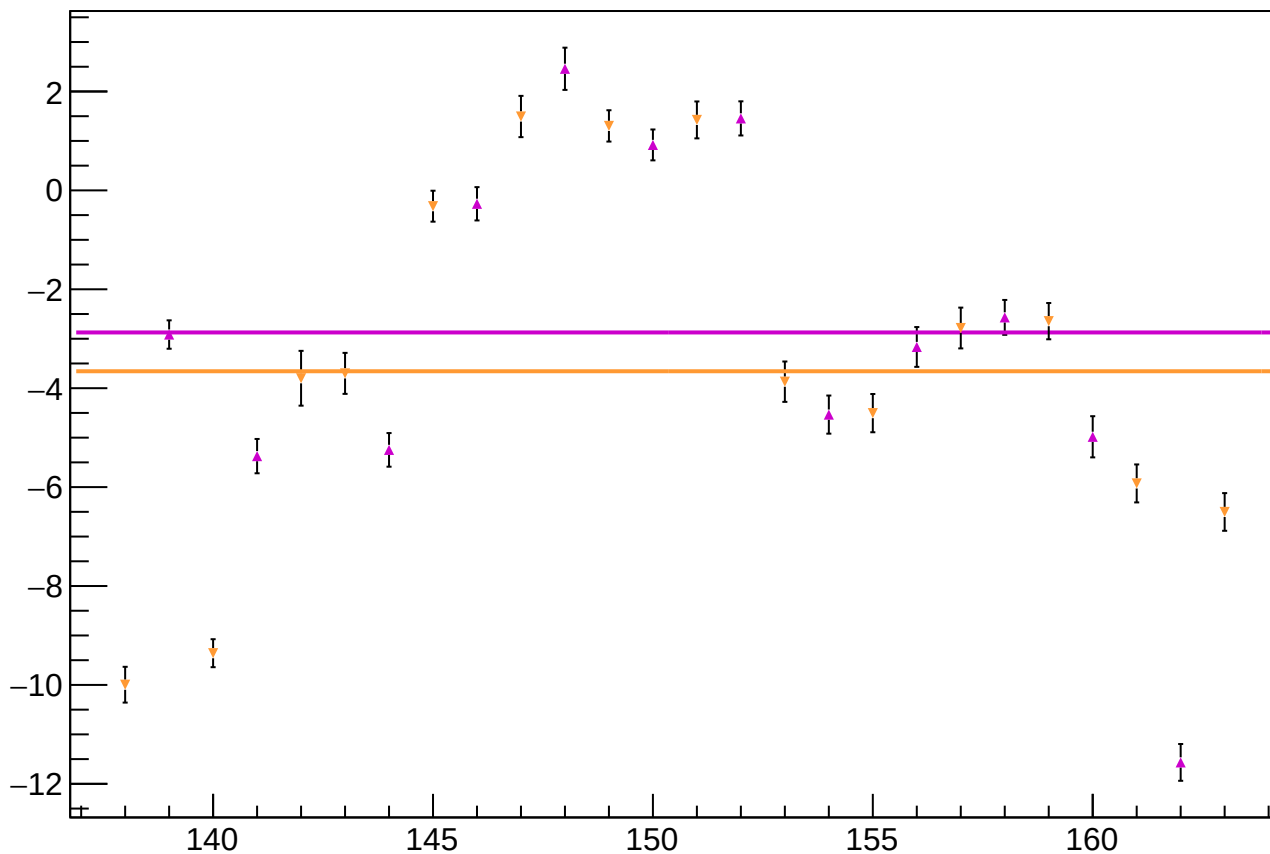
Left In:  $-20.001 \pm 0.011$   $\chi^2/\text{NDF}$ : 47990.2/11

+ sign  $-20.580 \pm 0.009$   $\chi^2/\text{NDF}$ : 87640.5/30

All:  $-19.964 \pm 0.007$   $\chi^2/\text{NDF}$ : 335989.9/61

- sign  $-19.351 \pm 0.009$   $\chi^2/\text{NDF}$ : 239744.1/30

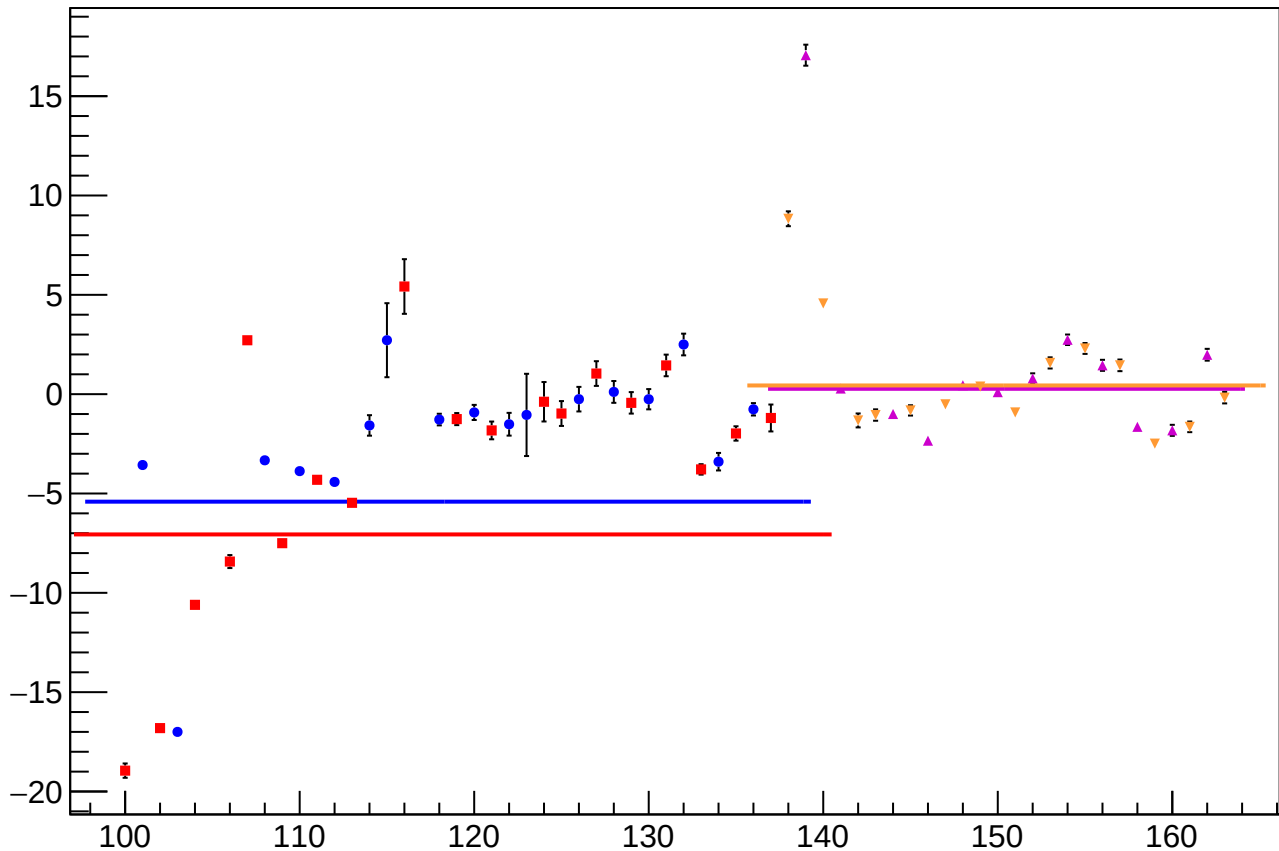
# reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-3.657 \pm 0.099$   $\chi^2/\text{NDF}$ : 1517.8/13  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-2.873 \pm 0.102$   $\chi^2/\text{NDF}$ : 1212.9/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $-3.277 \pm 0.071$   $\chi^2/\text{NDF}$ : 2761.1/25  
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-5.411 \pm 0.055$   $\chi^2/\text{NDF}$ : 9261.2/16

Left Out:  $0.438 \pm 0.069$   $\chi^2/\text{NDF}$ : 1220.0/13

Right Out:  $-7.060 \pm 0.059$   $\chi^2/\text{NDF}$ : 12329.4/18

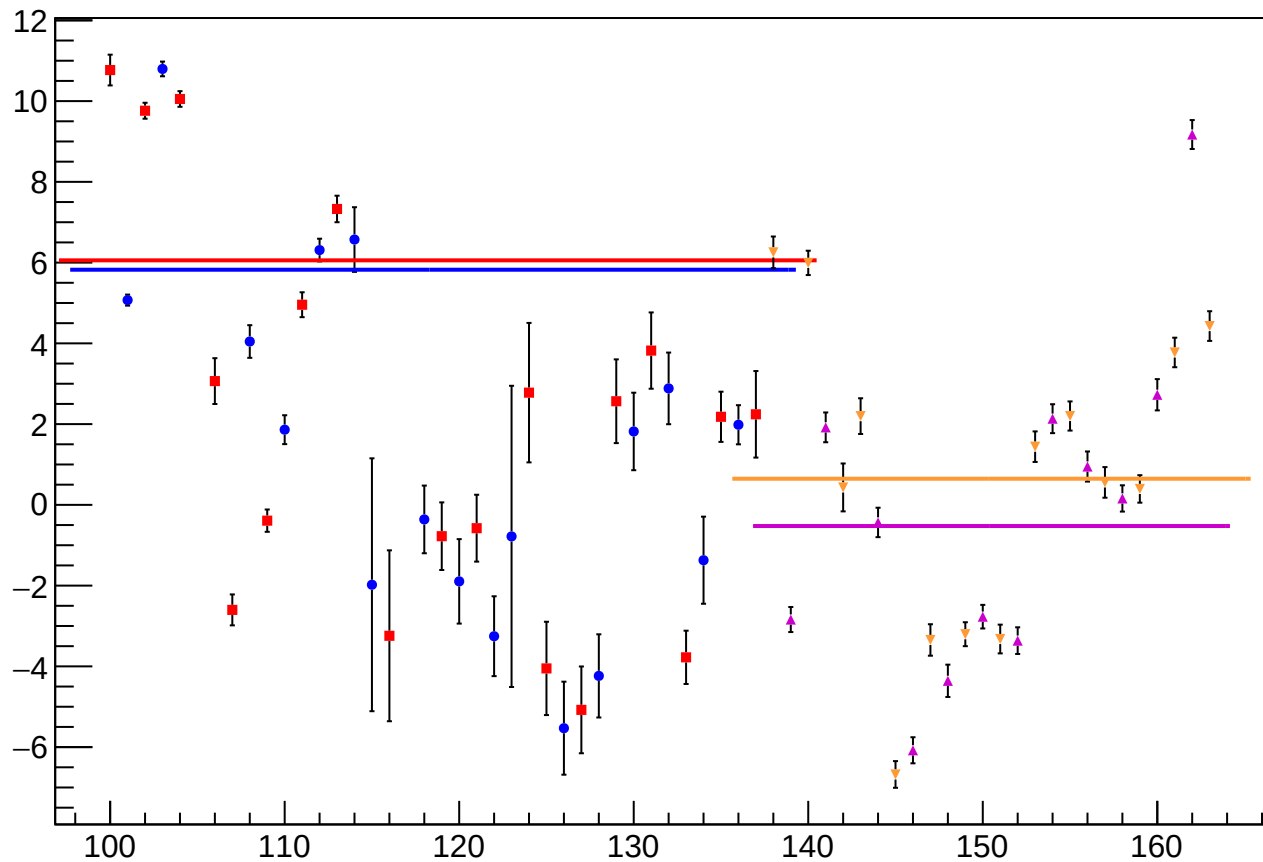
Left In:  $0.270 \pm 0.073$   $\chi^2/\text{NDF}$ : 1447.3/11

+ sign  $-3.163 \pm 0.043$   $\chi^2/\text{NDF}$ : 14869.8/30

All:  $-3.634 \pm 0.031$   $\chi^2/\text{NDF}$ : 34976.2/61

- sign  $-4.173 \pm 0.046$   $\chi^2/\text{NDF}$ : 19848.9/30

# reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $5.824 \pm 0.090$   $\chi^2/\text{NDF}$ : 1452.6/16

Left Out:  $0.648 \pm 0.097$   $\chi^2/\text{NDF}$ : 1622.8/13

Right Out:  $6.056 \pm 0.093$   $\chi^2/\text{NDF}$ : 2668.9/18

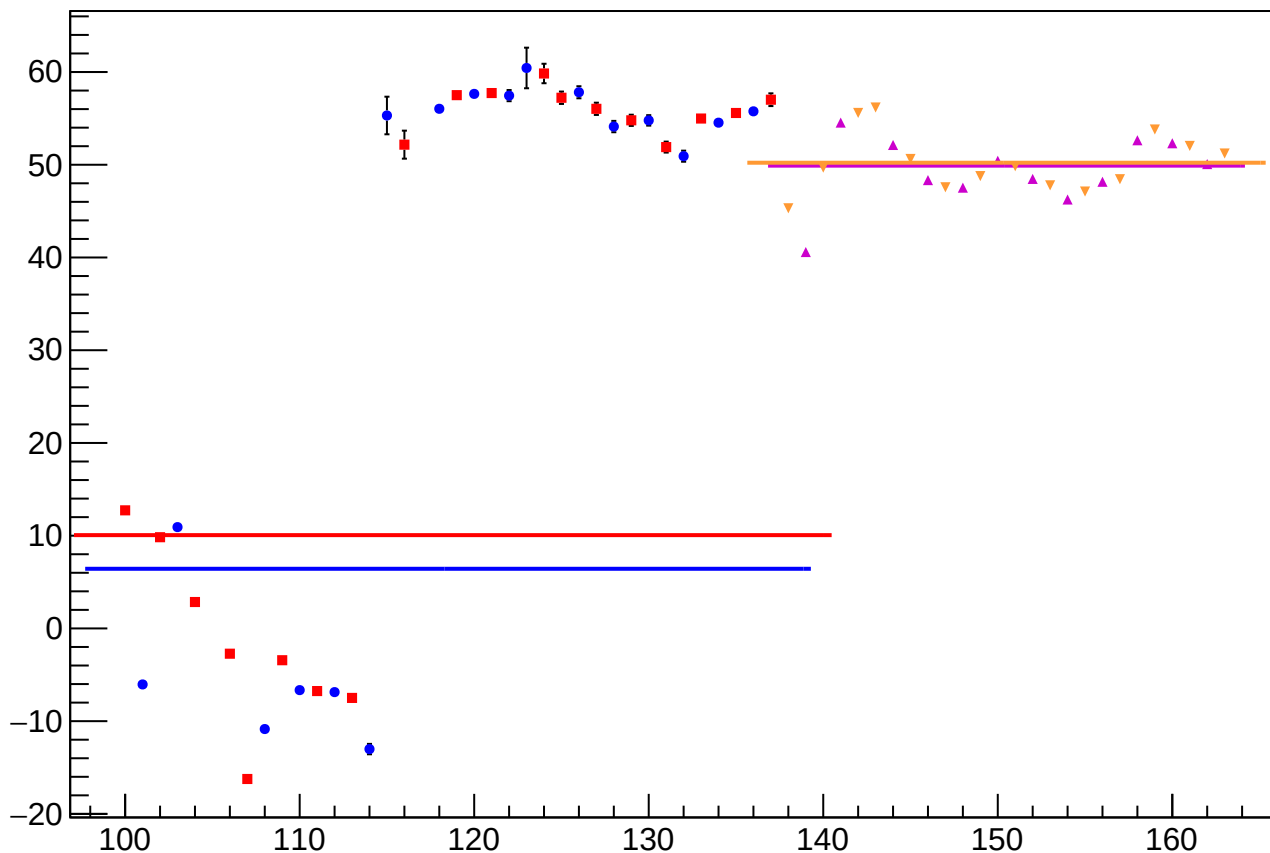
Left In:  $-0.524 \pm 0.100$   $\chi^2/\text{NDF}$ : 1499.1/11

+ sign  $3.450 \pm 0.066$   $\chi^2/\text{NDF}$ : 4606.7/30

All:  $3.222 \pm 0.047$   $\chi^2/\text{NDF}$ : 11124.7/61

- sign  $2.979 \pm 0.068$   $\chi^2/\text{NDF}$ : 6493.3/30

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $6.432 \pm 0.065$   $\chi^2/\text{NDF}$ : 123486.3/16

Left Out:  $50.219 \pm 0.081$   $\chi^2/\text{NDF}$ : 1145.3/13

Right Out:  $10.060 \pm 0.070$   $\chi^2/\text{NDF}$ : 121816.0/18

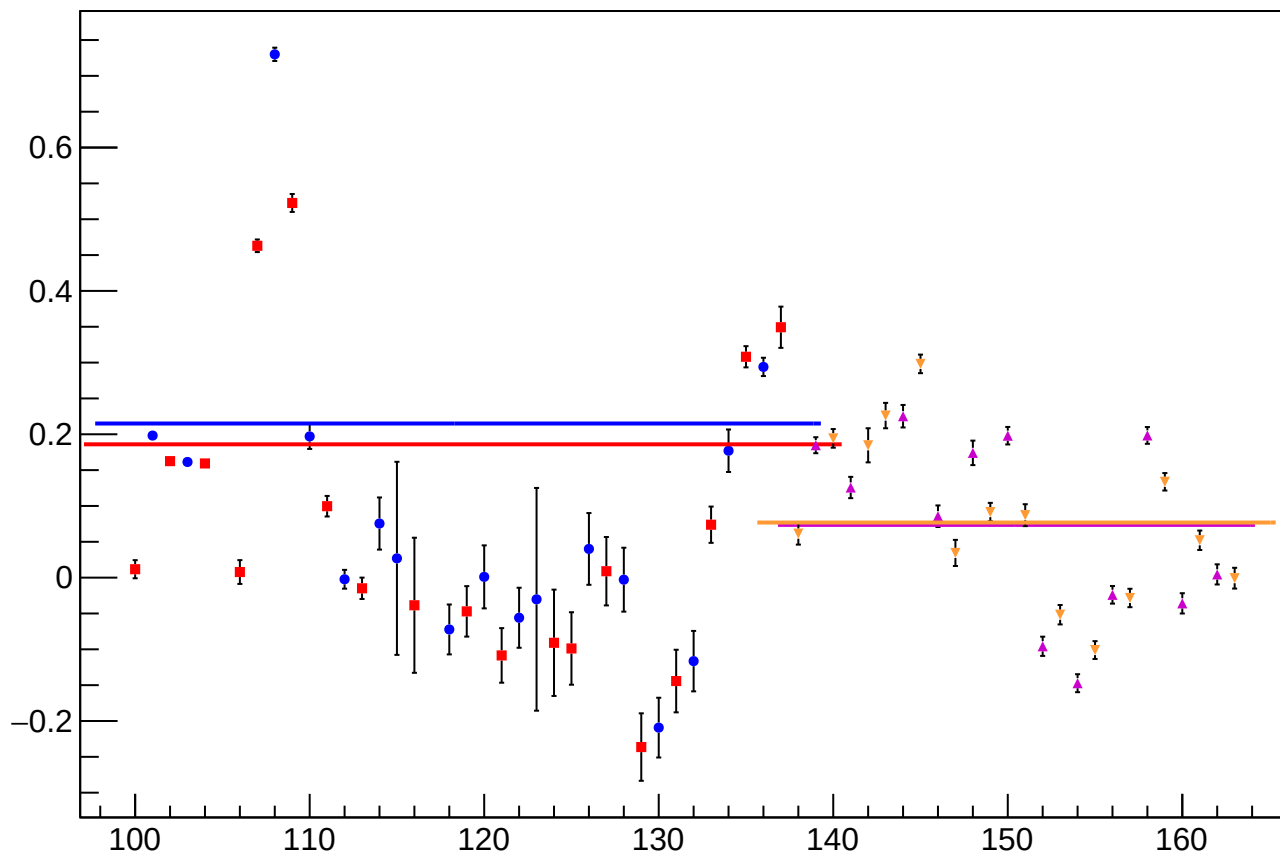
Left In:  $49.904 \pm 0.085$   $\chi^2/\text{NDF}$ : 1114.9/11

+ sign  $23.426 \pm 0.051$   $\chi^2/\text{NDF}$ : 302392.7/30

All:  $24.655 \pm 0.037$   $\chi^2/\text{NDF}$ : 557586.6/61

- sign  $26.052 \pm 0.054$   $\chi^2/\text{NDF}$ : 253933.9/30

# reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.215 $\pm$ 0.003  $\chi^2$ /NDF: 3930.1/16

Left Out: 0.077 $\pm$ 0.004  $\chi^2$ /NDF: 889.0/13

Right Out: 0.186 $\pm$ 0.003  $\chi^2$ /NDF: 2720.3/18

Left In: 0.074 $\pm$ 0.004  $\chi^2$ /NDF: 1074.8/11

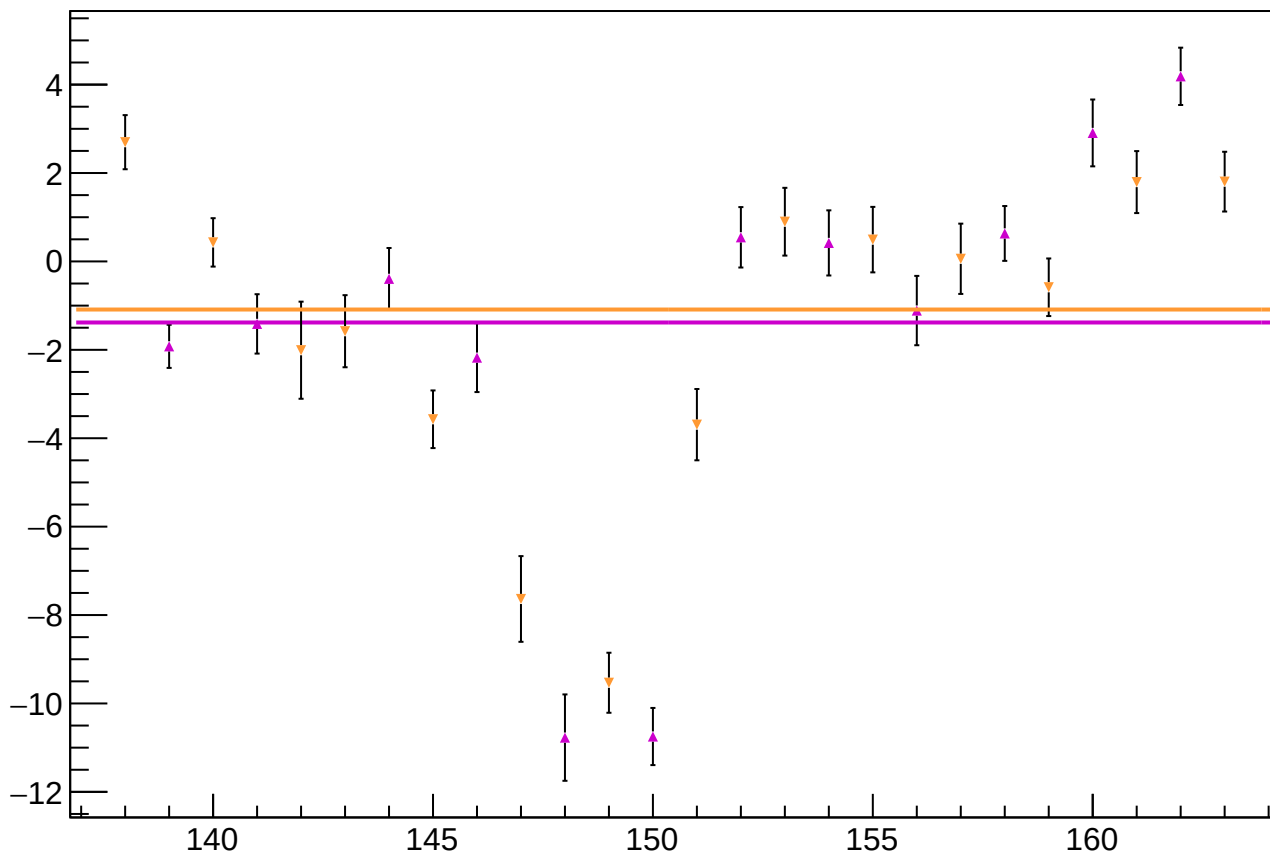
+ sign 0.167 $\pm$ 0.002  $\chi^2$ /NDF: 5683.5/30

All: 0.158 $\pm$ 0.002  $\chi^2$ /NDF: 10081.7/61

- sign 0.149 $\pm$ 0.002  $\chi^2$ /NDF: 4366.2/30



# reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-1.088 \pm 0.192$   $\chi^2/\text{NDF}$ : 321.4/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

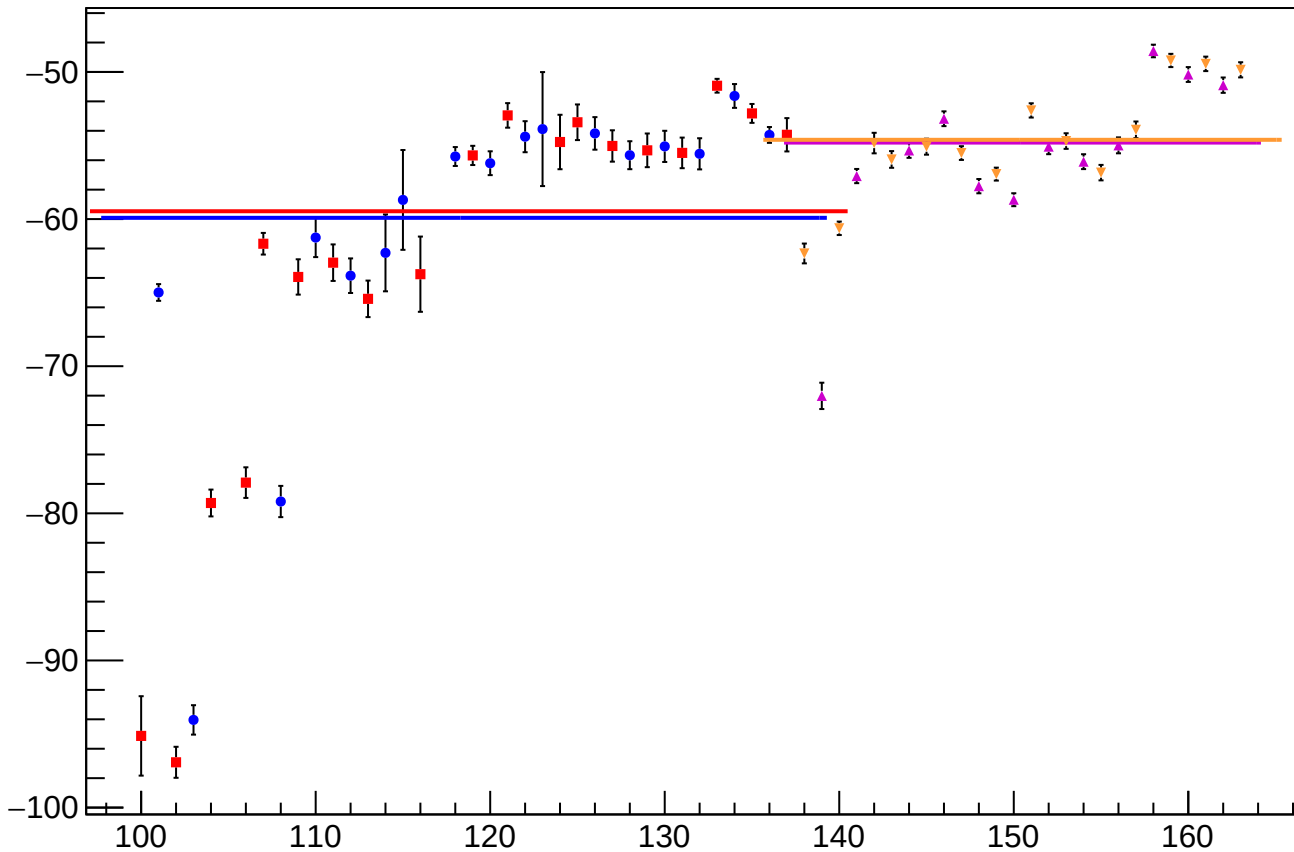
Left In:  $-1.382 \pm 0.197$   $\chi^2/\text{NDF}$ : 437.1/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.231 \pm 0.137$   $\chi^2/\text{NDF}$ : 759.6/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-59.914 \pm 0.223$   $\chi^2/\text{NDF}$ : 1979.5/16

Left Out:  $-54.612 \pm 0.138$   $\chi^2/\text{NDF}$ : 718.3/13

Right Out:  $-59.468 \pm 0.212$   $\chi^2/\text{NDF}$ : 2912.7/18

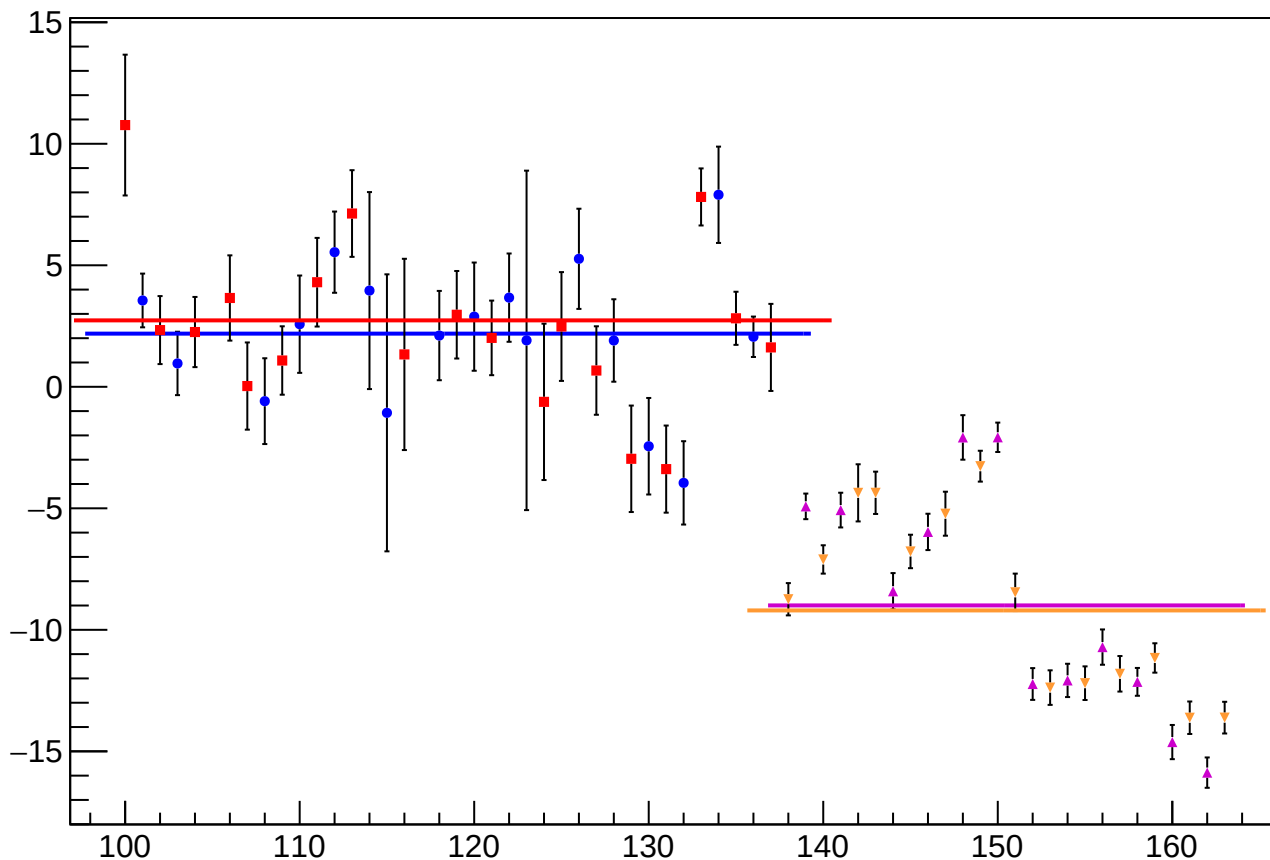
Left In:  $-54.800 \pm 0.146$   $\chi^2/\text{NDF}$ : 876.3/11

+ sign  $-56.077 \pm 0.117$   $\chi^2/\text{NDF}$ : 3107.0/30

All:  $-56.186 \pm 0.084$   $\chi^2/\text{NDF}$ : 7226.5/61

- sign  $-56.300 \pm 0.120$   $\chi^2/\text{NDF}$ : 4117.7/30

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $2.188 \pm 0.404$   $\chi^2/\text{NDF}$ : 39.1/16

Left Out:  $-9.202 \pm 0.189$   $\chi^2/\text{NDF}$ : 332.6/13

Right Out:  $2.733 \pm 0.388$   $\chi^2/\text{NDF}$ : 58.9/18

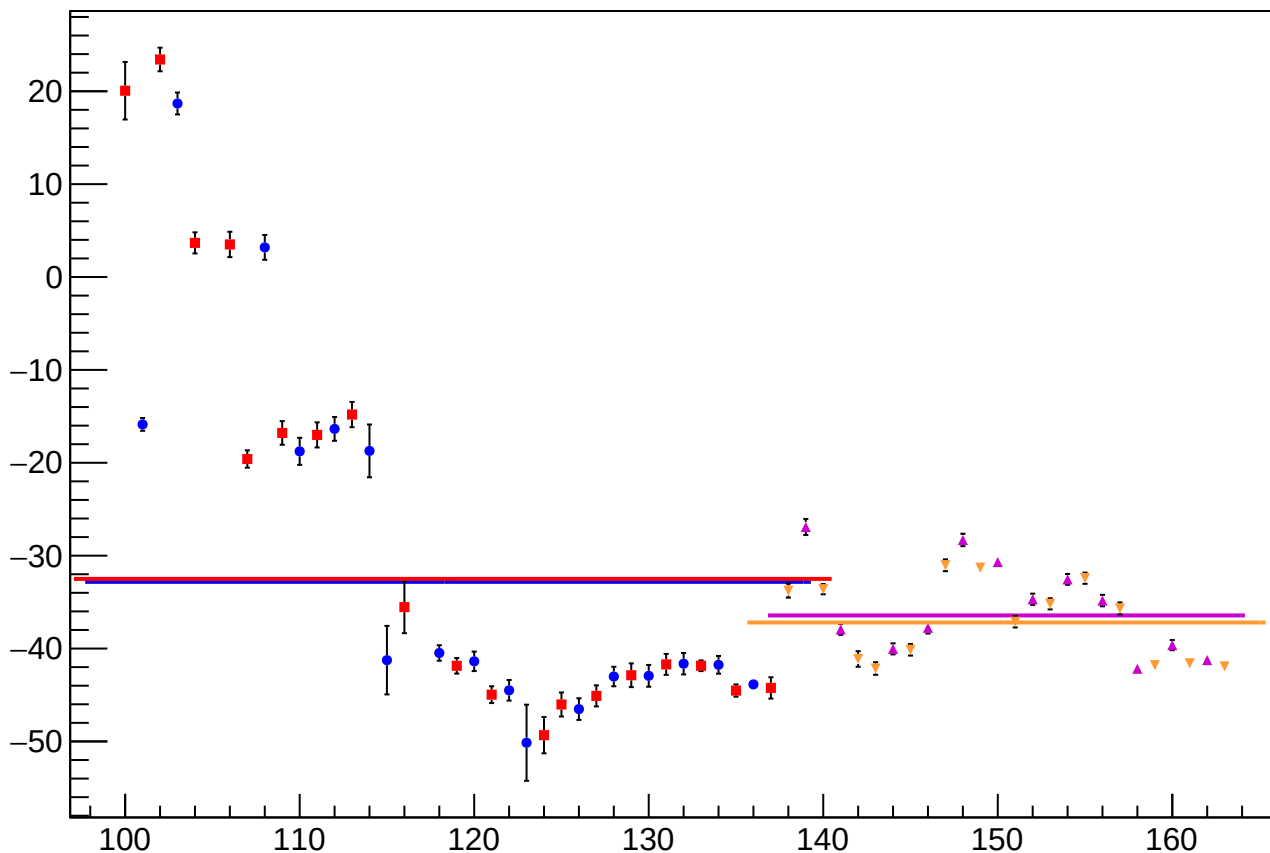
Left In:  $-8.996 \pm 0.192$   $\chi^2/\text{NDF}$ : 560.7/11

+ sign  $-7.158 \pm 0.171$   $\chi^2/\text{NDF}$ : 1023.6/30

All:  $-6.921 \pm 0.121$   $\chi^2/\text{NDF}$ : 2381.9/61

- sign  $-6.681 \pm 0.172$   $\chi^2/\text{NDF}$ : 1354.4/30

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-32.817 \pm 0.254$   $\chi^2/\text{NDF}: 4666.6/16$

Left Out:  $-37.195 \pm 0.159$   $\chi^2/\text{NDF}: 698.7/13$

Right Out:  $-32.501 \pm 0.244$   $\chi^2/\text{NDF}: 6037.9/18$

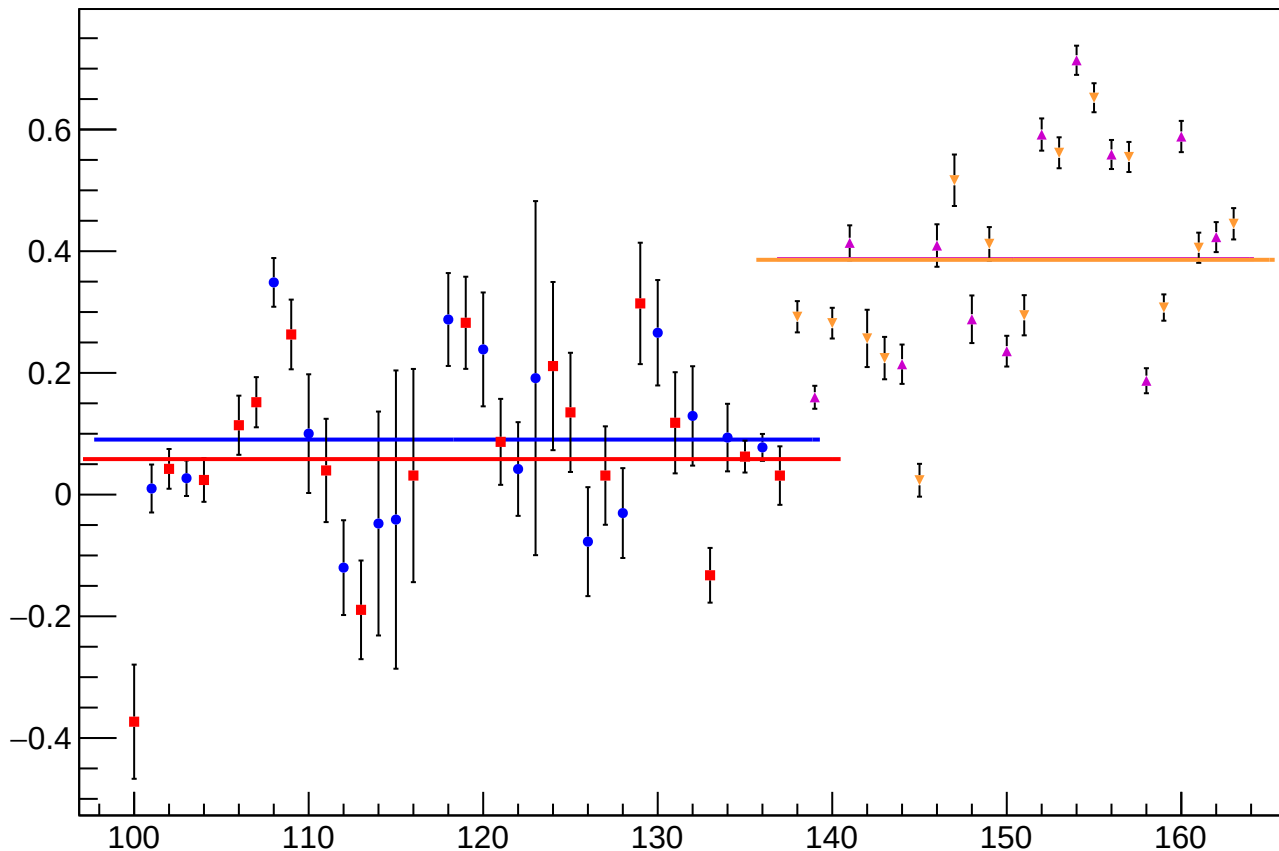
Left In:  $-36.435 \pm 0.167$   $\chi^2/\text{NDF}: 778.4/11$

+ sign  $-35.957 \pm 0.135$   $\chi^2/\text{NDF}: 5578.4/30$

All:  $-35.576 \pm 0.096$   $\chi^2/\text{NDF}: 12588.0/61$

- sign  $-35.179 \pm 0.138$   $\chi^2/\text{NDF}: 6993.3/30$

# reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.090 $\pm$ 0.013  $\chi^2$ /NDF: 79.2/16

Left Out: 0.386 $\pm$ 0.007  $\chi^2$ /NDF: 496.3/13

Right Out: 0.058 $\pm$ 0.012  $\chi^2$ /NDF: 87.3/18

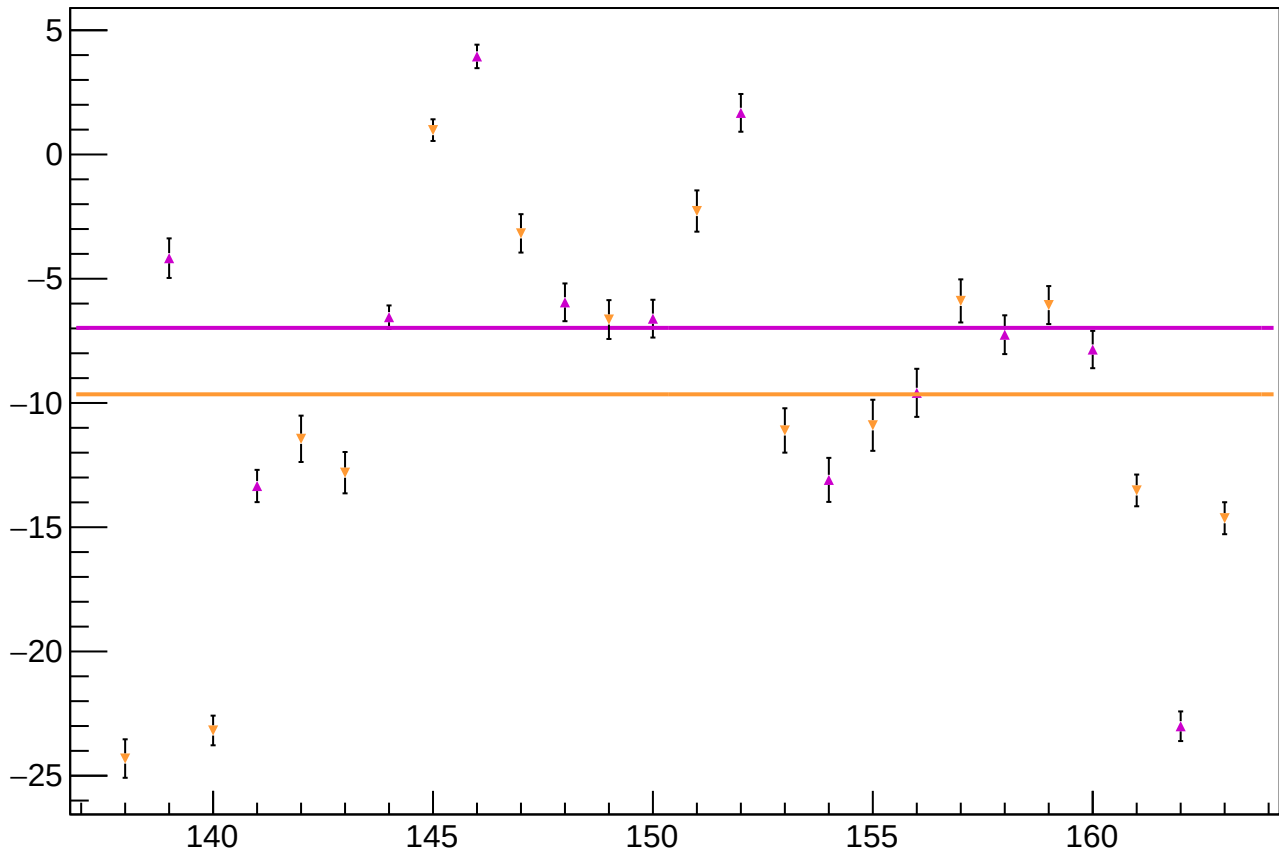
Left In: 0.387 $\pm$ 0.007  $\chi^2$ /NDF: 672.0/11

+ sign 0.313 $\pm$ 0.006  $\chi^2$ /NDF: 981.2/30

All: 0.306 $\pm$ 0.004  $\chi^2$ /NDF: 2278.6/61

- sign 0.299 $\pm$ 0.006  $\chi^2$ /NDF: 1295.0/30

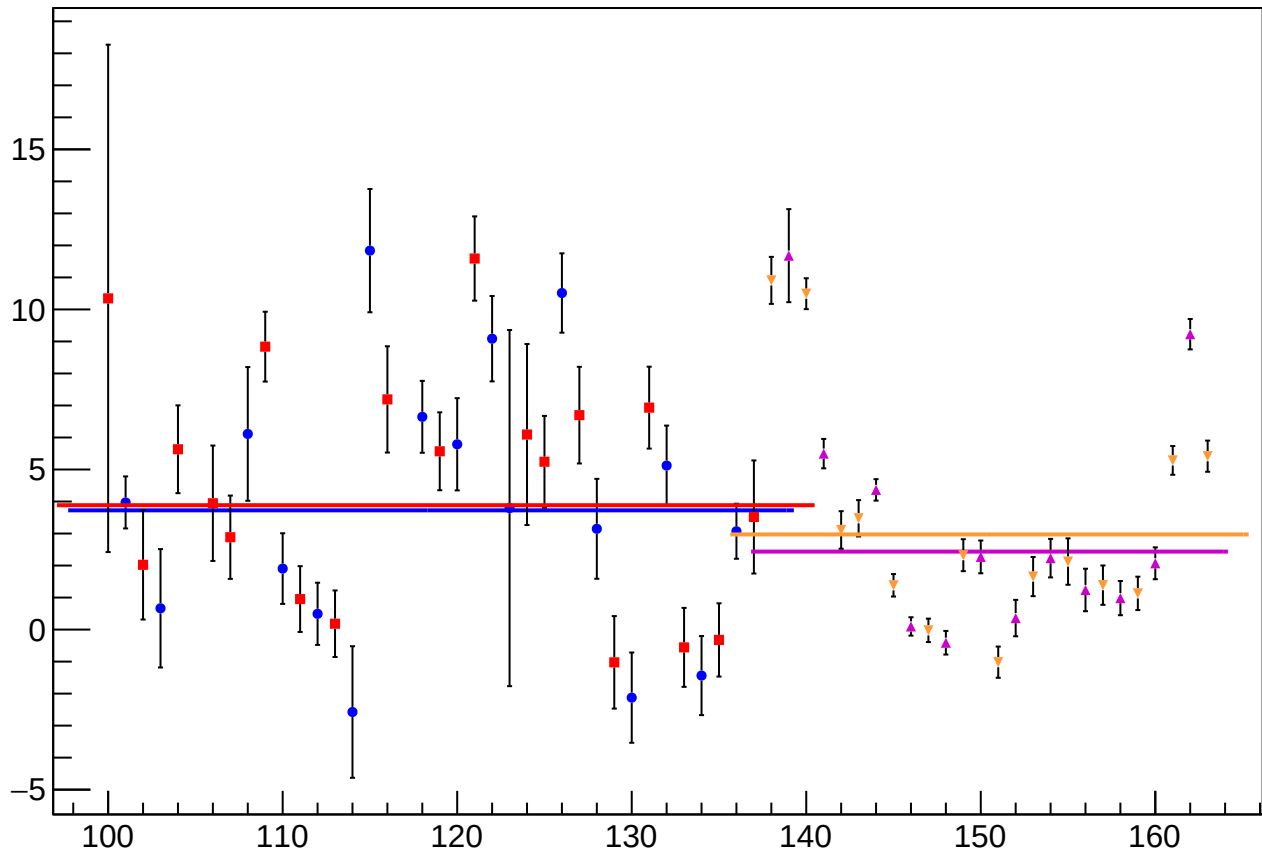
# reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -9.651+/-0.192  $\chi^2/\text{NDF}$ : 1790.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.978+/-0.194  $\chi^2/\text{NDF}$ : 1553.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -8.327+/-0.136  $\chi^2/\text{NDF}$ : 3440.5/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.725 \pm 0.308$   $\chi^2/\text{NDF}$ : 136.8/16

Left Out:  $2.973 \pm 0.134$   $\chi^2/\text{NDF}$ : 593.6/13

Right Out:  $3.885 \pm 0.316$   $\chi^2/\text{NDF}$ : 134.4/18

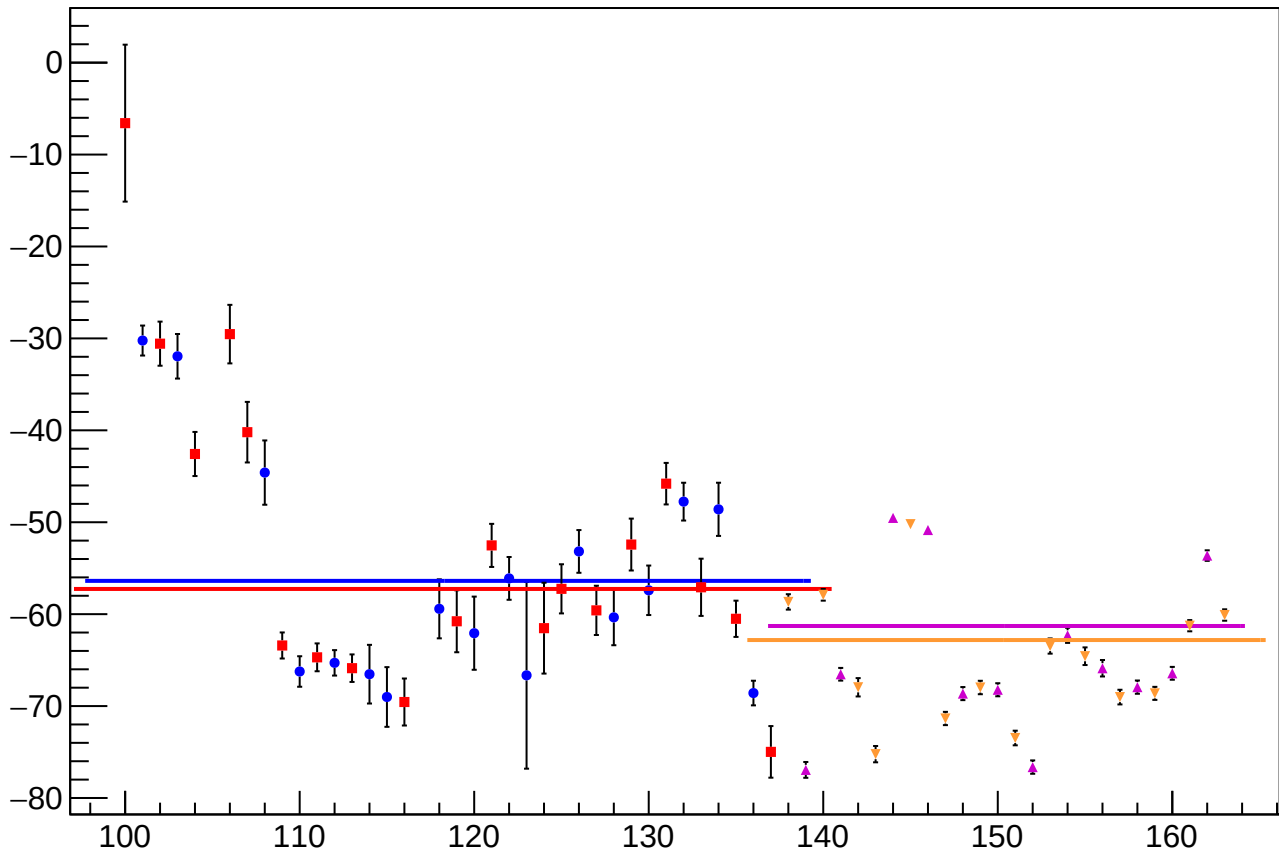
Left In:  $2.436 \pm 0.132$   $\chi^2/\text{NDF}$ : 473.2/11

+ sign  $3.091 \pm 0.123$   $\chi^2/\text{NDF}$ : 735.3/30

All:  $2.869 \pm 0.086$   $\chi^2/\text{NDF}$ : 1367.3/61

- sign  $2.651 \pm 0.122$   $\chi^2/\text{NDF}$ : 625.4/30

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-56.379 \pm 0.542$   $\chi^2/\text{NDF}$ : 587.4/16

Left Out:  $-62.816 \pm 0.190$   $\chi^2/\text{NDF}$ : 1571.8/13

Right Out:  $-57.258 \pm 0.536$   $\chi^2/\text{NDF}$ : 476.1/18

Left In:  $-61.287 \pm 0.190$   $\chi^2/\text{NDF}$ : 2453.4/11

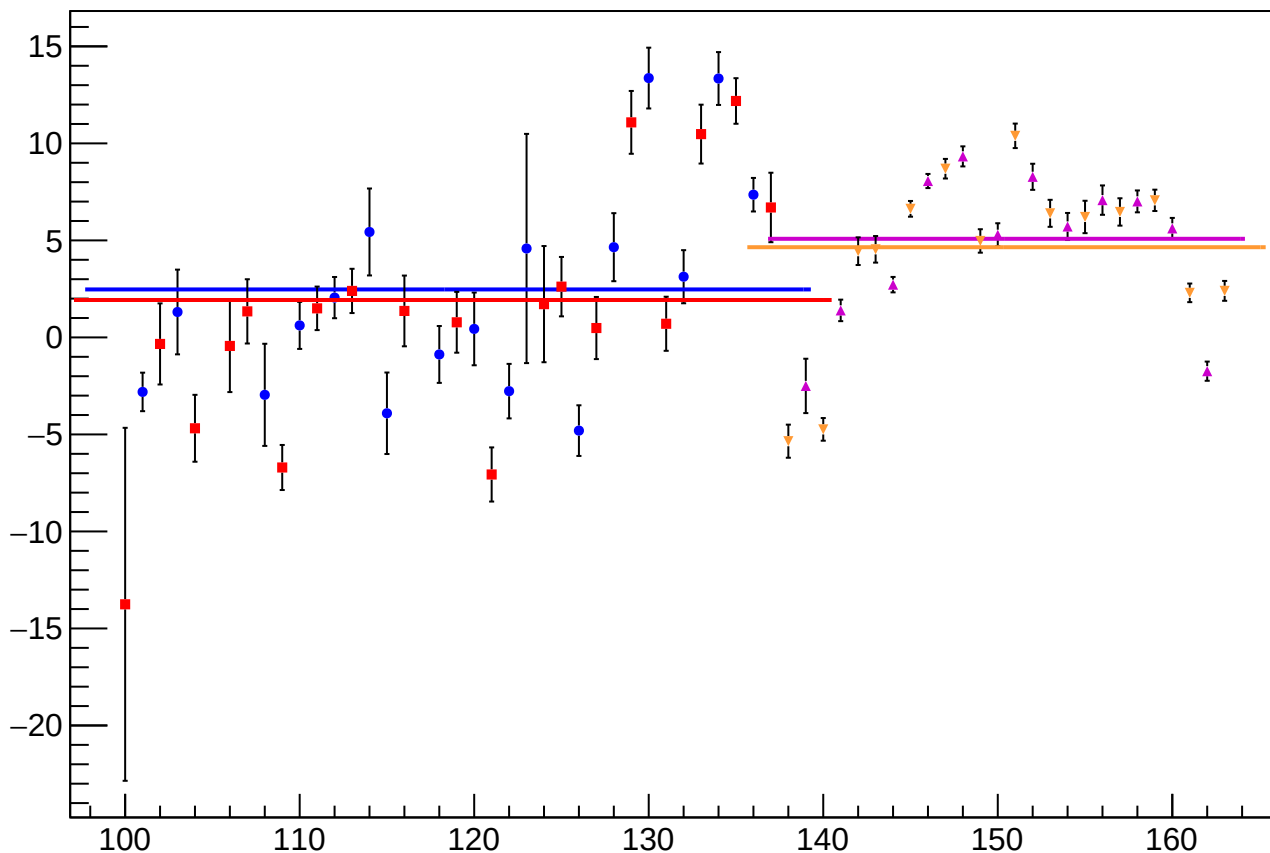
+ sign  $-62.108 \pm 0.180$   $\chi^2/\text{NDF}$ : 2284.7/30

All:  $-61.470 \pm 0.127$   $\chi^2/\text{NDF}$ : 5289.6/61

- sign  $-60.838 \pm 0.179$   $\chi^2/\text{NDF}$ : 2979.7/30



# reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $2.473 \pm 0.345$   $\chi^2/\text{NDF}$ : 243.6/16

Left Out:  $4.649 \pm 0.157$   $\chi^2/\text{NDF}$ : 645.8/13

Right Out:  $1.928 \pm 0.355$   $\chi^2/\text{NDF}$ : 266.6/18

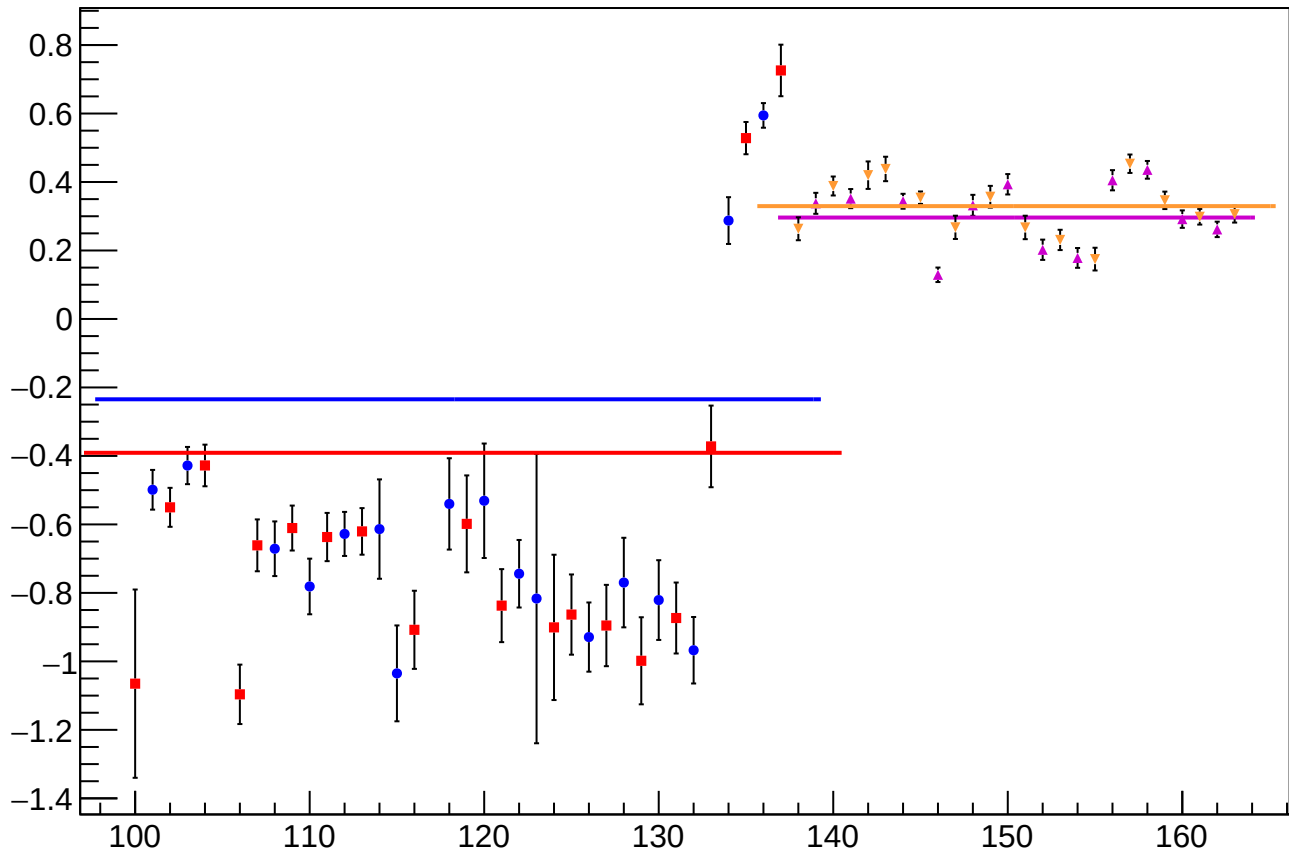
Left In:  $5.082 \pm 0.156$   $\chi^2/\text{NDF}$ : 476.5/11

+ sign  $4.277 \pm 0.143$   $\chi^2/\text{NDF}$ : 922.2/30

All:  $4.422 \pm 0.101$   $\chi^2/\text{NDF}$ : 1733.6/61

- sign  $4.569 \pm 0.143$   $\chi^2/\text{NDF}$ : 809.2/30

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.235 \pm 0.019$   $\chi^2/\text{NDF}$ : 958.4/16

Left Out:  $0.330 \pm 0.007$   $\chi^2/\text{NDF}$ : 89.1/13

Right Out:  $-0.391 \pm 0.019$   $\chi^2/\text{NDF}$ : 853.3/18

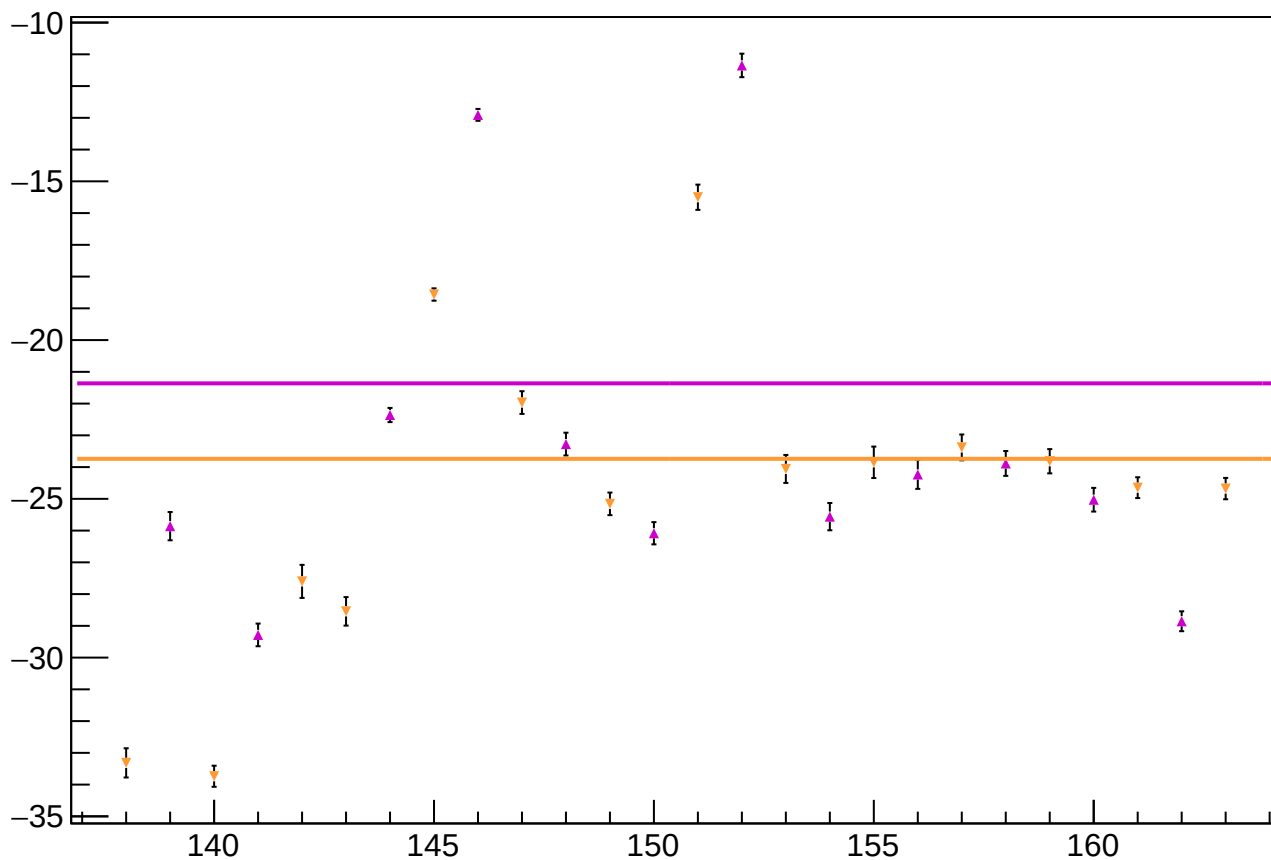
Left In:  $0.296 \pm 0.008$   $\chi^2/\text{NDF}$ : 156.7/11

+ sign  $0.253 \pm 0.007$   $\chi^2/\text{NDF}$ : 1819.8/30

All:  $0.227 \pm 0.005$   $\chi^2/\text{NDF}$ : 3989.2/61

- sign  $0.201 \pm 0.007$   $\chi^2/\text{NDF}$ : 2142.2/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.740+/-0.095  $\chi^2/\text{NDF}$ : 2701.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

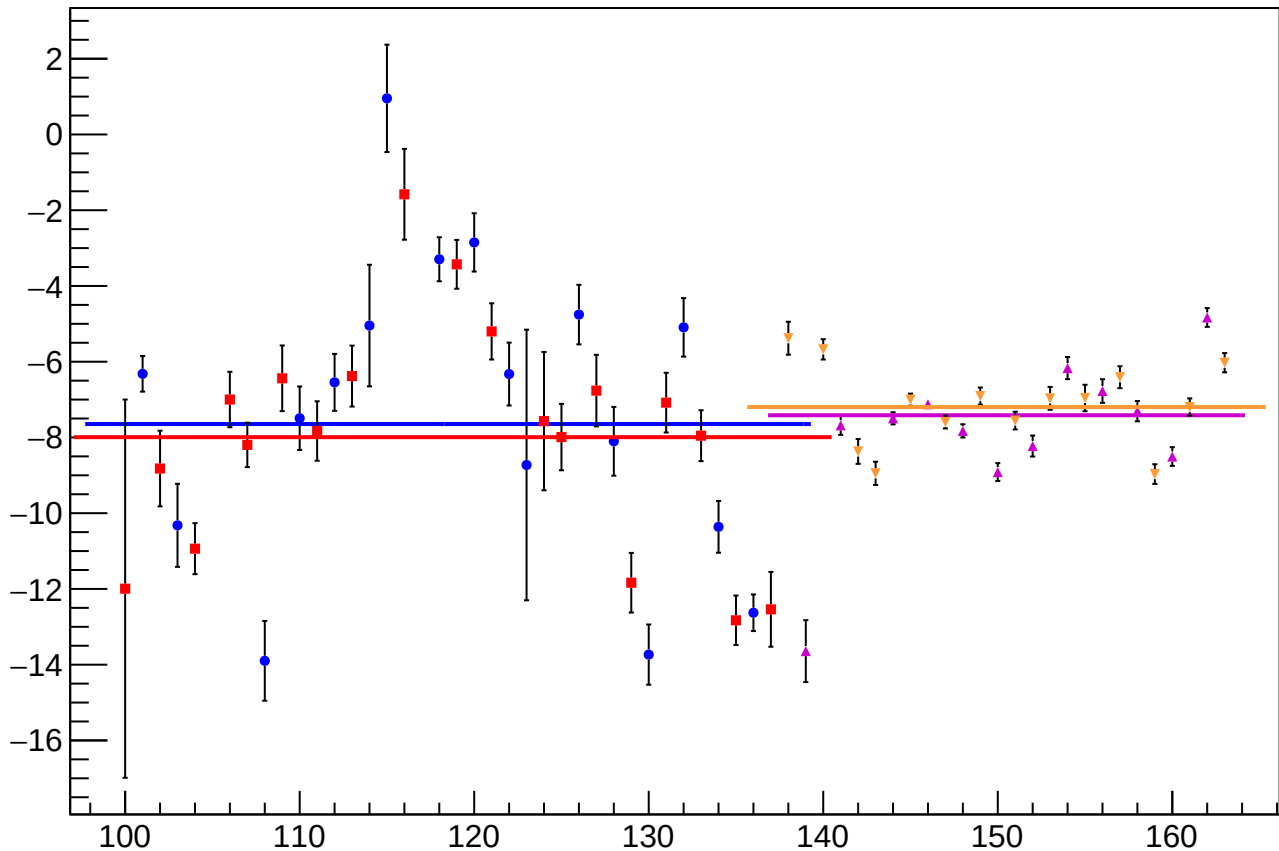
Left In: -21.363+/-0.092  $\chi^2/\text{NDF}$ : 4439.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.512+/-0.066  $\chi^2/\text{NDF}$ : 7465.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.646 \pm 0.186$   $\chi^2/\text{NDF}$ : 393.6/16

Left Out:  $-7.197 \pm 0.066$   $\chi^2/\text{NDF}$ : 182.0/13

Right Out:  $-7.992 \pm 0.186$   $\chi^2/\text{NDF}$ : 225.5/18

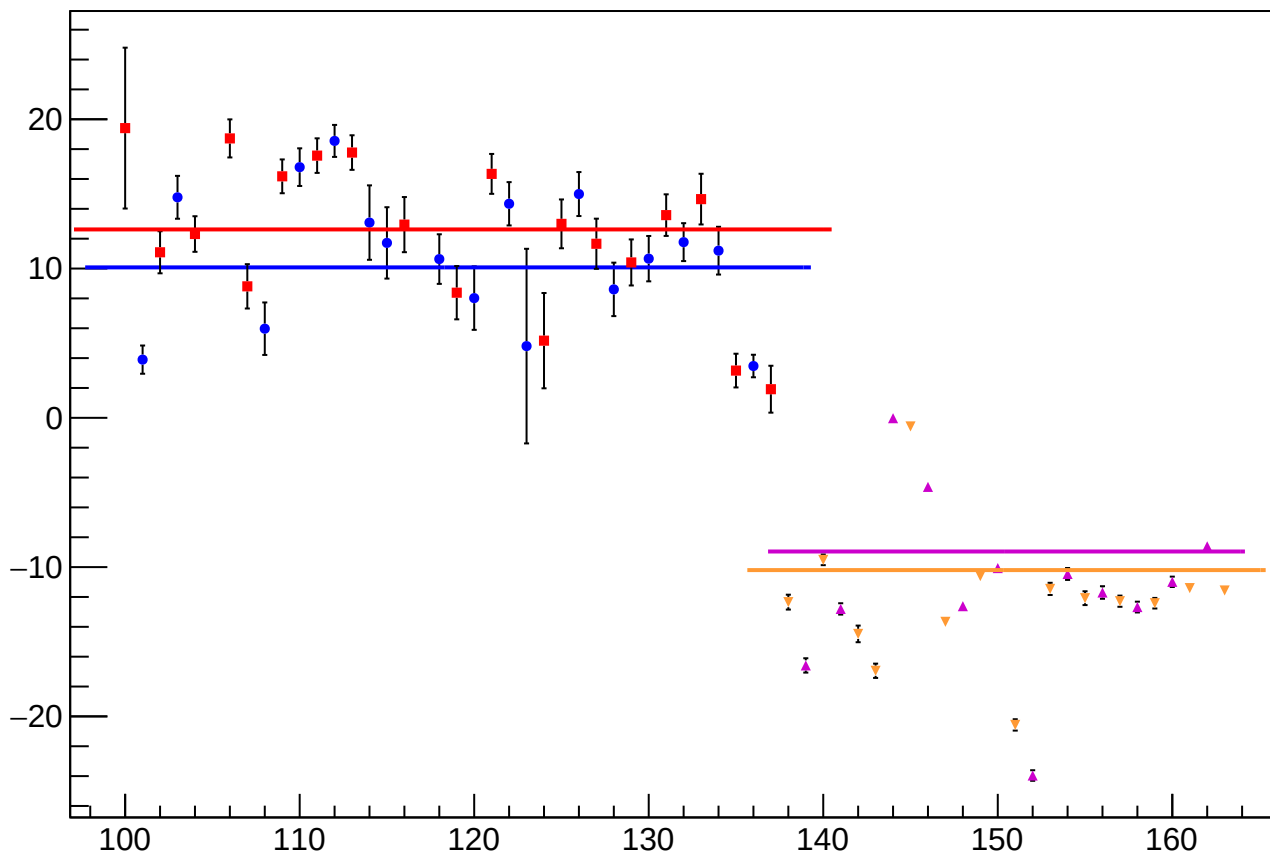
Left In:  $-7.414 \pm 0.062$   $\chi^2/\text{NDF}$ : 270.1/11

+ sign  $-7.247 \pm 0.062$   $\chi^2/\text{NDF}$ : 580.8/30

All:  $-7.366 \pm 0.043$   $\chi^2/\text{NDF}$ : 1092.0/61

- sign  $-7.471 \pm 0.059$   $\chi^2/\text{NDF}$ : 504.3/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $10.077 \pm 0.337$   $\chi^2/\text{NDF}$ : 252.8/16

Left Out:  $-10.200 \pm 0.094$   $\chi^2/\text{NDF}$ : 3441.2/13

Right Out:  $12.620 \pm 0.332$   $\chi^2/\text{NDF}$ : 220.0/18

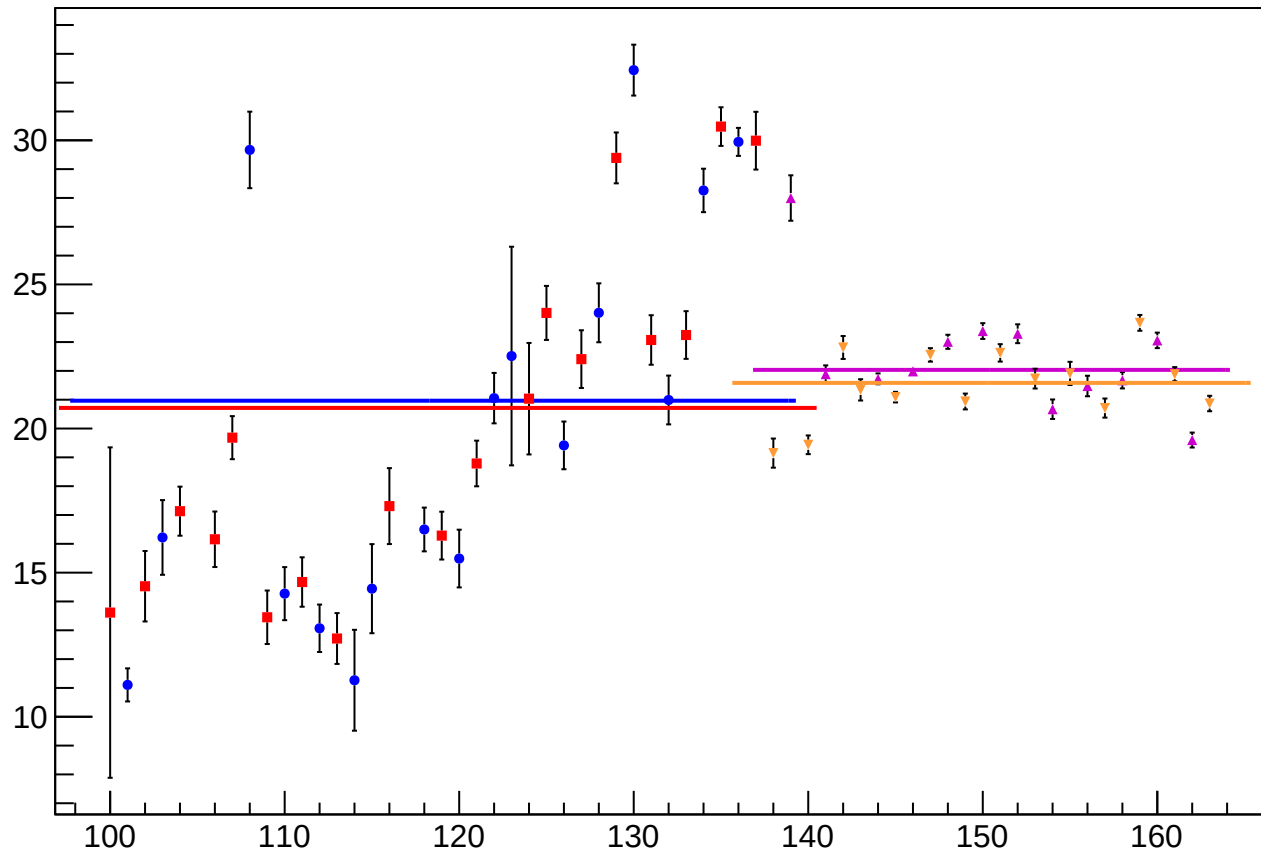
Left In:  $-8.954 \pm 0.090$   $\chi^2/\text{NDF}$ : 4447.5/11

+ sign  $-8.739 \pm 0.090$   $\chi^2/\text{NDF}$ : 7058.0/30

All:  $-8.088 \pm 0.063$   $\chi^2/\text{NDF}$ : 15750.9/61

- sign  $-7.492 \pm 0.087$   $\chi^2/\text{NDF}$ : 8593.7/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 20.965 $\pm$ 0.209  $\chi^2$ /NDF: 1225.5/16

Left Out: 21.584 $\pm$ 0.077  $\chi^2$ /NDF:192.8/13

Right Out: 20.716 $\pm$ 0.213  $\chi^2$ /NDF: 729.9/18

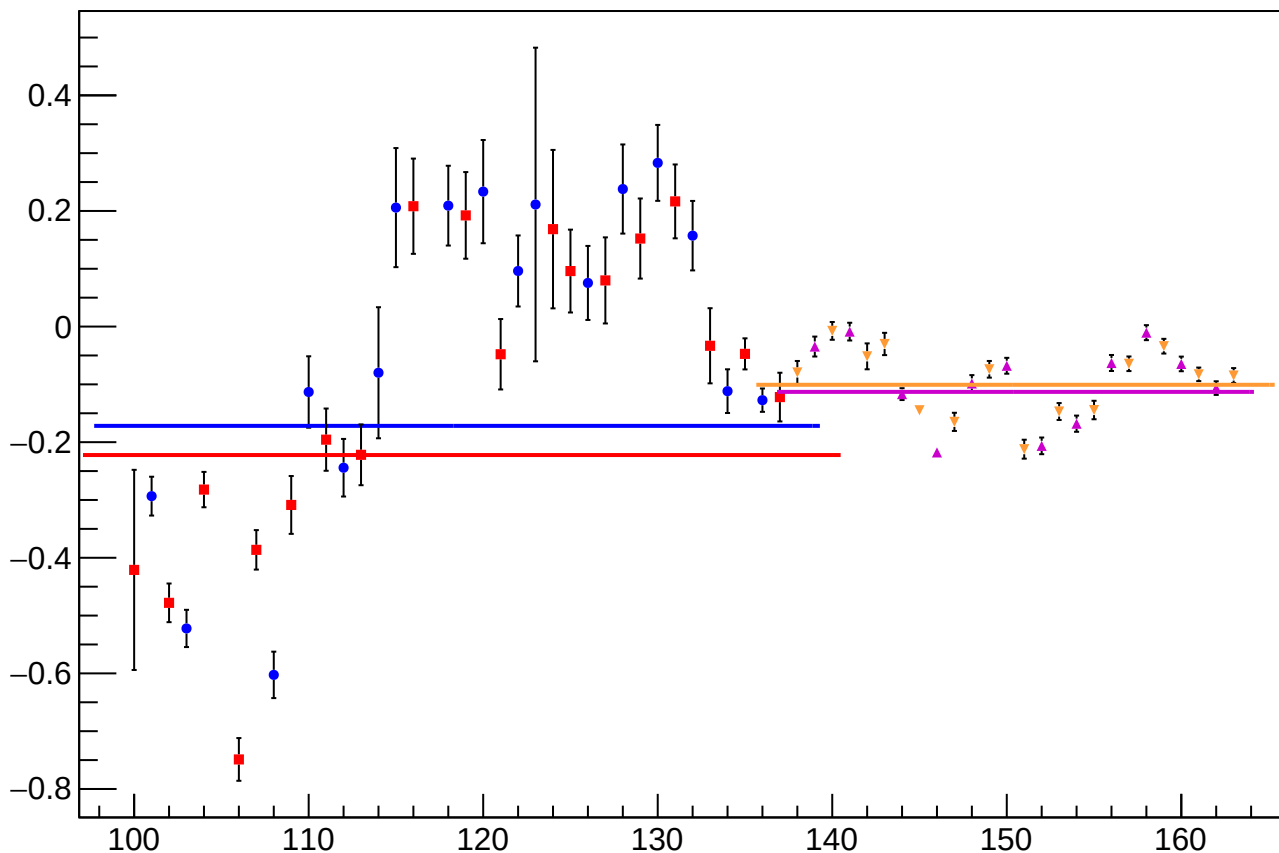
Left In: 22.035 $\pm$ 0.074  $\chi^2$ /NDF:238.2/11

+ sign 21.509 $\pm$ 0.073  $\chi^2$ /NDF: 1425.9/30

All: 21.710 $\pm$ 0.050  $\chi^2$ /NDF: 2442.9/61

- sign 21.894 $\pm$ 0.070  $\chi^2$ /NDF: 1002.4/30

# reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.172 \pm 0.011$   $\chi^2/\text{NDF}$ : 464.2/16

Left Out:  $-0.101 \pm 0.004$   $\chi^2/\text{NDF}$ : 209.3/13

Right Out:  $-0.222 \pm 0.011$   $\chi^2/\text{NDF}$ : 536.1/18

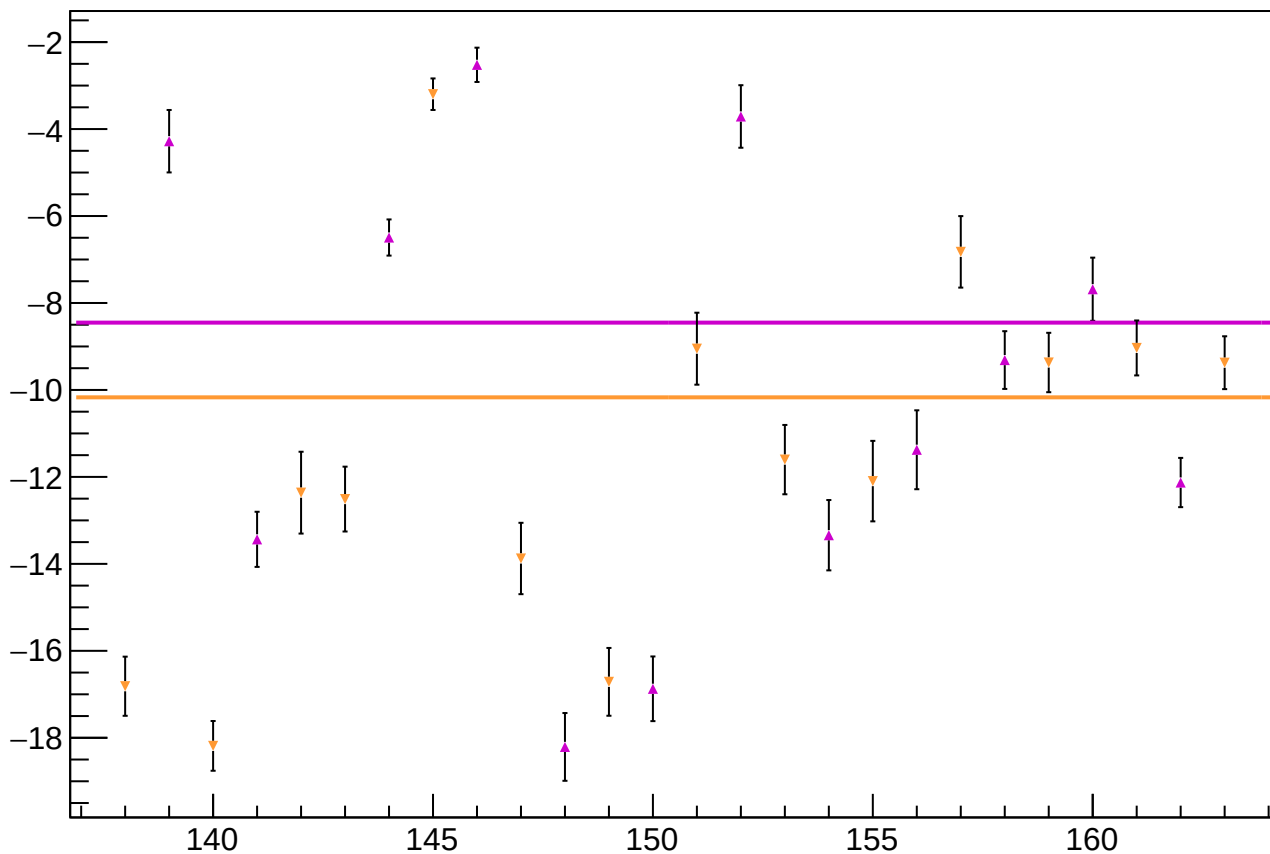
Left In:  $-0.113 \pm 0.004$   $\chi^2/\text{NDF}$ : 380.3/11

+ sign  $-0.108 \pm 0.003$   $\chi^2/\text{NDF}$ : 709.9/30

All:  $-0.116 \pm 0.002$   $\chi^2/\text{NDF}$ : 1726.9/61

- sign  $-0.124 \pm 0.003$   $\chi^2/\text{NDF}$ : 1006.2/30

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -10.170 $\pm$ 0.177  $\chi^2$ /NDF: 799.7/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -8.452 $\pm$ 0.177  $\chi^2$ /NDF: 764.0/11

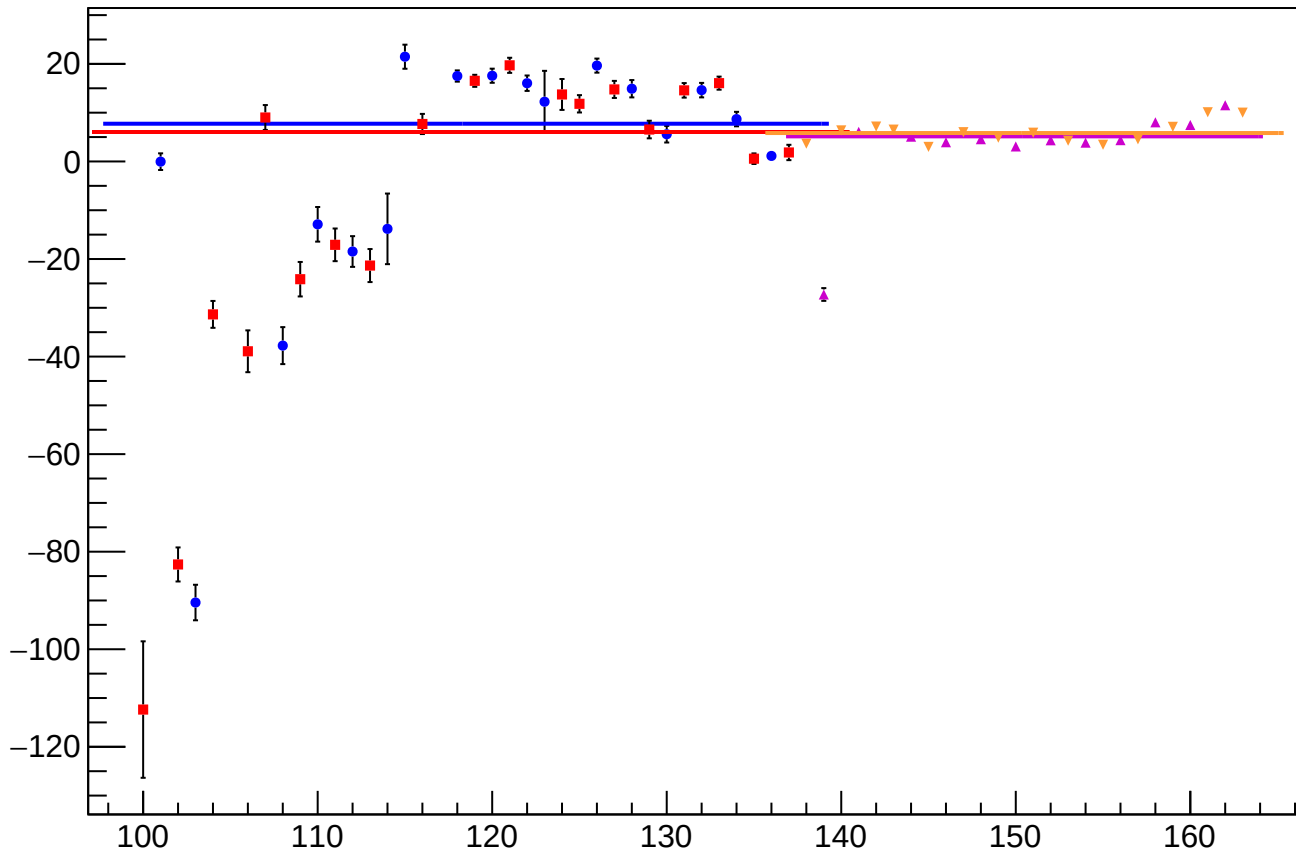
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -9.309 $\pm$ 0.125  $\chi^2$ /NDF: 1610.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.736 \pm 0.403$   $\chi^2/\text{NDF}$ : 1358.4/16

Left Out:  $5.827 \pm 0.125$   $\chi^2/\text{NDF}$ : 330.0/13

Right Out:  $6.040 \pm 0.434$   $\chi^2/\text{NDF}$ : 1512.1/18

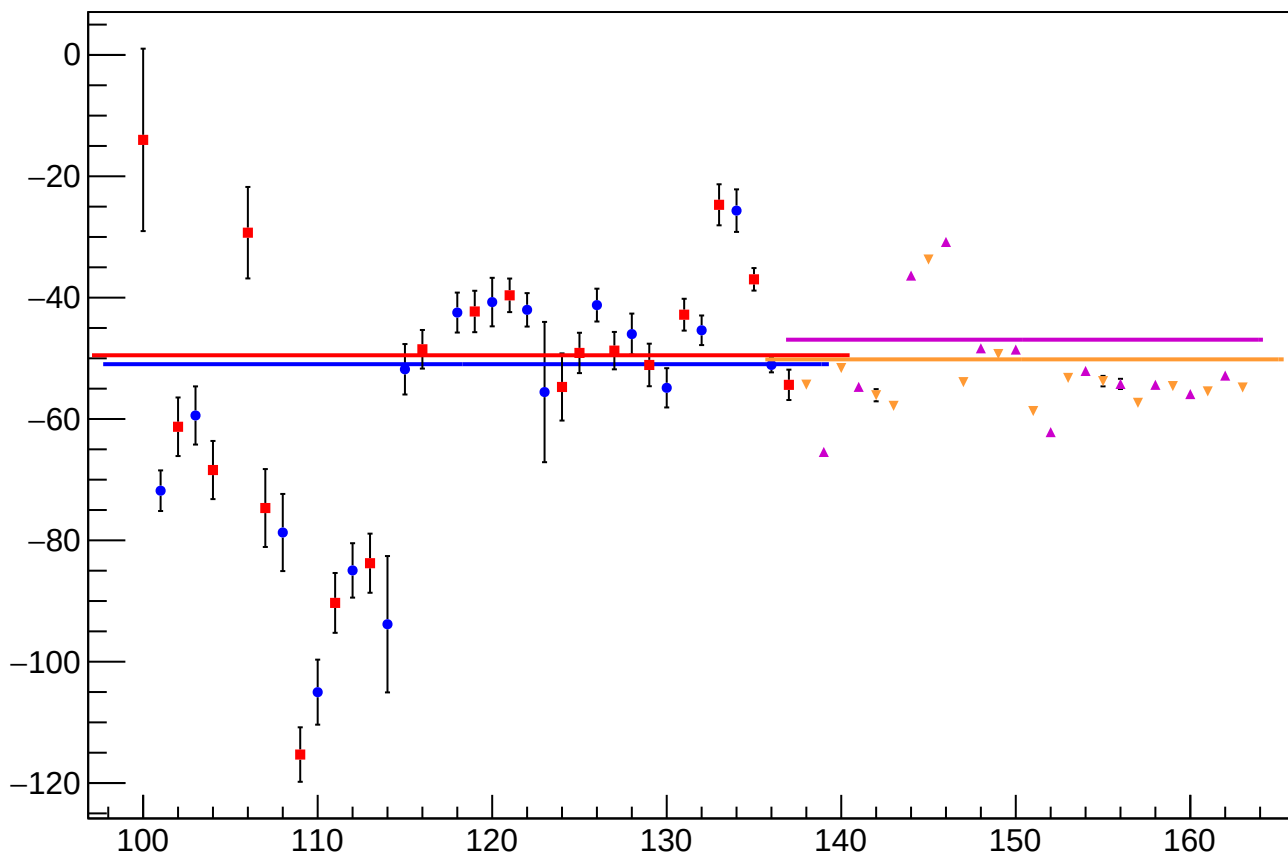
Left In:  $5.143 \pm 0.122$   $\chi^2/\text{NDF}$ : 934.3/11

+ sign  $5.996 \pm 0.120$   $\chi^2/\text{NDF}$ : 1708.9/30

All:  $5.595 \pm 0.084$   $\chi^2/\text{NDF}$ : 4181.4/61

- sign  $5.209 \pm 0.118$   $\chi^2/\text{NDF}$ : 2450.4/30

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-50.966 \pm 0.738$   $\chi^2/\text{NDF}$ : 332.7/16

Left Out:  $-50.172 \pm 0.177$   $\chi^2/\text{NDF}$ : 2419.2/13

Right Out:  $-49.497 \pm 0.797$   $\chi^2/\text{NDF}$ : 510.4/18

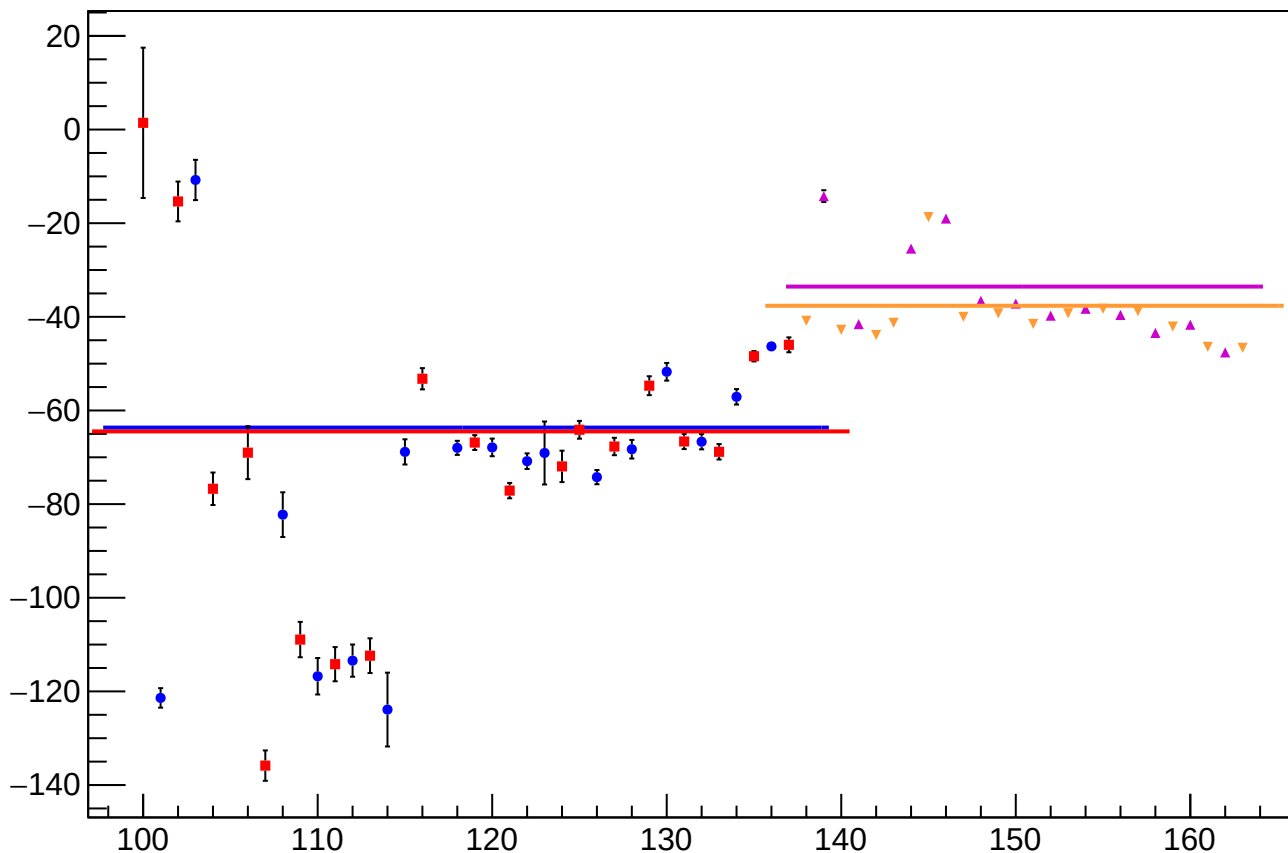
Left In:  $-46.929 \pm 0.173$   $\chi^2/\text{NDF}$ : 4123.1/11

+ sign  $-50.215 \pm 0.172$   $\chi^2/\text{NDF}$ : 2753.0/30

All:  $-48.607 \pm 0.121$   $\chi^2/\text{NDF}$ : 7568.8/61

- sign  $-47.045 \pm 0.169$   $\chi^2/\text{NDF}$ : 4643.4/30

# reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: -63.656±/0.445  $\chi^2/\text{NDF}$ : 2014.7/16

Left Out: -37.637±/0.146  $\chi^2/\text{NDF}$ : 4271.9/13

Right Out: -64.470±/0.483  $\chi^2/\text{NDF}$ : 1606.8/18

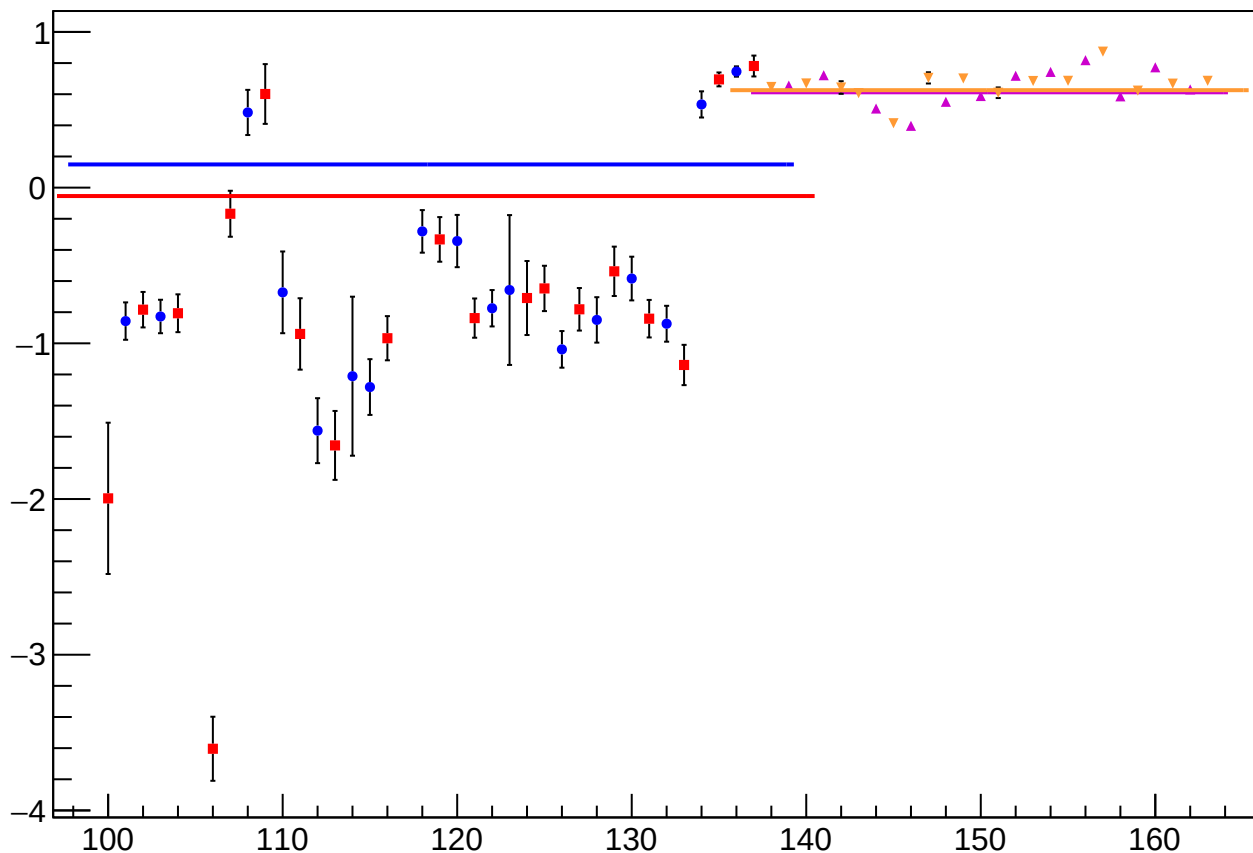
Left In: -33.537±/0.144  $\chi^2/\text{NDF}$ : 4974.8/11

+ sign -40.170±/0.139  $\chi^2/\text{NDF}$ : 9367.4/30

All: -38.106±/0.098  $\chi^2/\text{NDF}$ : 20160.9/61

- sign -36.069±/0.138  $\chi^2/\text{NDF}$ : 10355.2/30

# reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.149 $\pm$ 0.024  $\chi^2$ /NDF: 989.9/16

Left Out: 0.626 $\pm$ 0.007  $\chi^2$ /NDF: 322.9/13

Right Out: -0.054 $\pm$ 0.026  $\chi^2$ /NDF: 1167.9/18

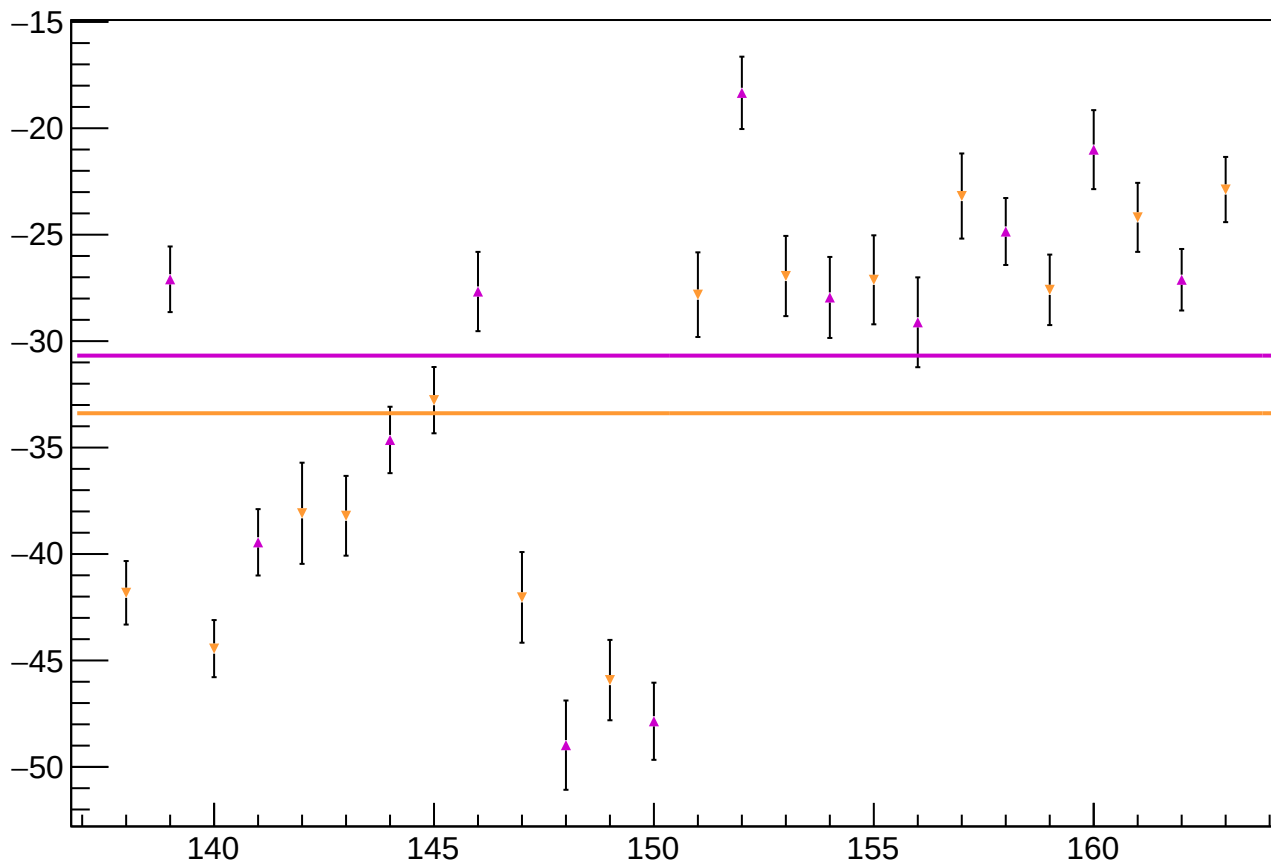
Left In: 0.612 $\pm$ 0.007  $\chi^2$ /NDF: 337.2/11

+ sign 0.589 $\pm$ 0.007  $\chi^2$ /NDF: 1678.3/30

All: 0.579 $\pm$ 0.005  $\chi^2$ /NDF: 3792.3/61

- sign 0.568 $\pm$ 0.007  $\chi^2$ /NDF: 2109.1/30

# reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 +/- 0.000     $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.387 +/- 0.468     $\chi^2/\text{NDF}$ : 317.3/13

Right Out: 0.000 +/- 0.000     $\chi^2/\text{NDF}$ : 0.0/0

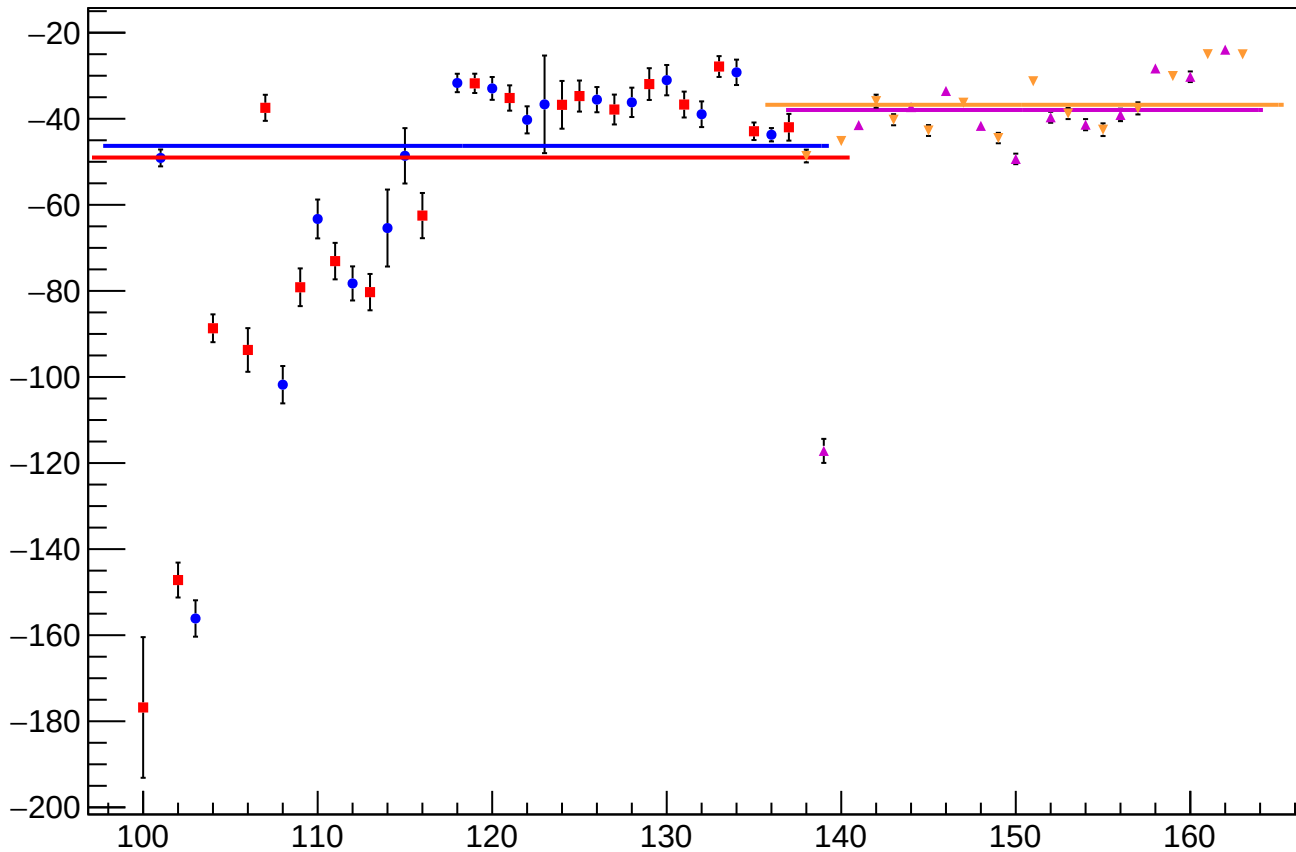
Left In: -30.680 +/- 0.495     $\chi^2/\text{NDF}$ : 314.5/11

+ sign 0.000 +/- 0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: -32.109 +/- 0.340     $\chi^2/\text{NDF}$ : 647.6/25

- sign 0.000 +/- 0.000     $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-46.300 \pm 0.723$   $\chi^2/\text{NDF}$ : 1084.0/16

Left Out:  $-36.754 \pm 0.330$   $\chi^2/\text{NDF}$ : 477.0/13

Right Out:  $-49.008 \pm 0.764$   $\chi^2/\text{NDF}$ : 1271.7/18

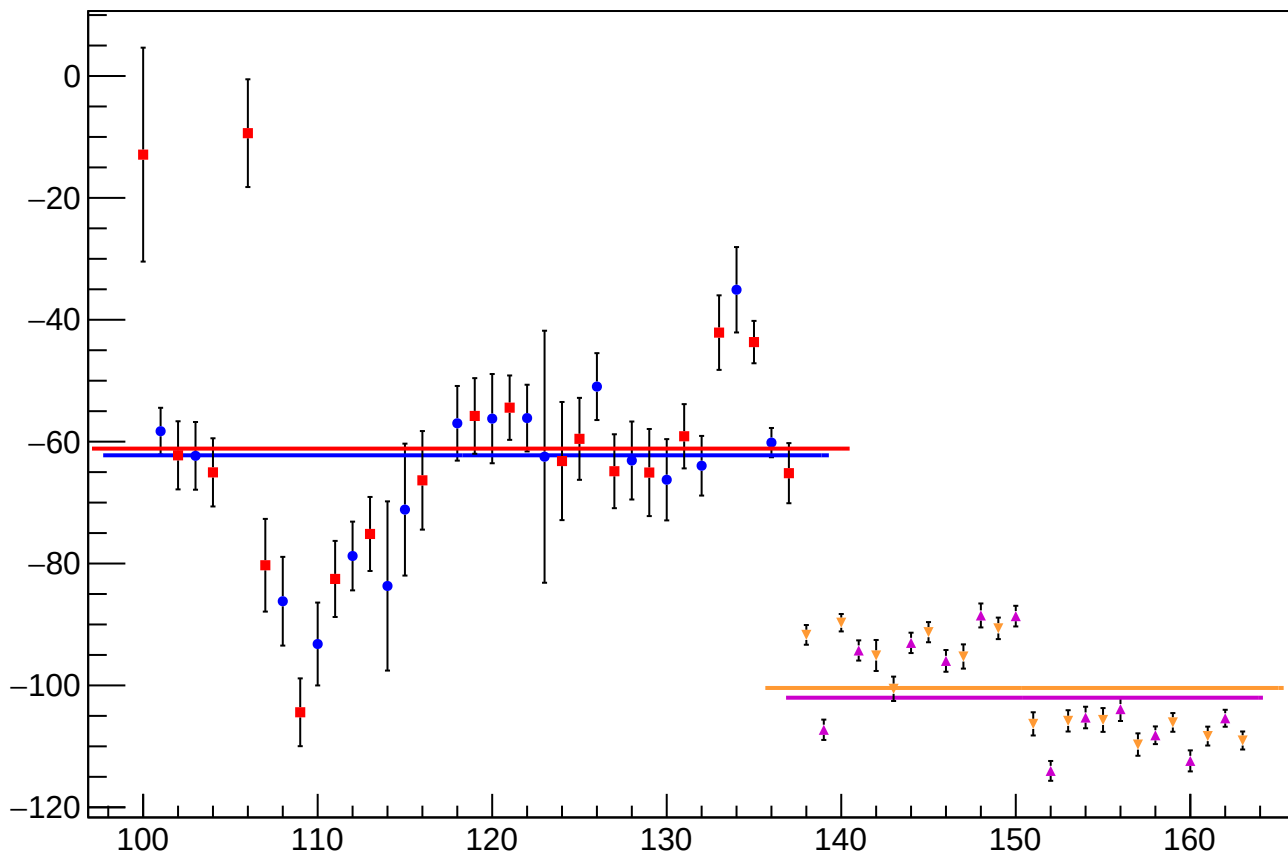
Left In:  $-37.961 \pm 0.352$   $\chi^2/\text{NDF}$ : 1204.2/11

+ sign  $-38.402 \pm 0.300$   $\chi^2/\text{NDF}$ : 1705.3/30

All:  $-39.102 \pm 0.219$   $\chi^2/\text{NDF}$ : 4365.4/61

- sign  $-39.895 \pm 0.320$   $\chi^2/\text{NDF}$ : 2648.5/30

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-62.242 \pm 1.310$   $\chi^2/\text{NDF}$ : 67.4/16

Left Out:  $-100.419 \pm 0.462$   $\chi^2/\text{NDF}$ : 283.1/13

Right Out:  $-61.142 \pm 1.379$   $\chi^2/\text{NDF}$ : 165.6/18

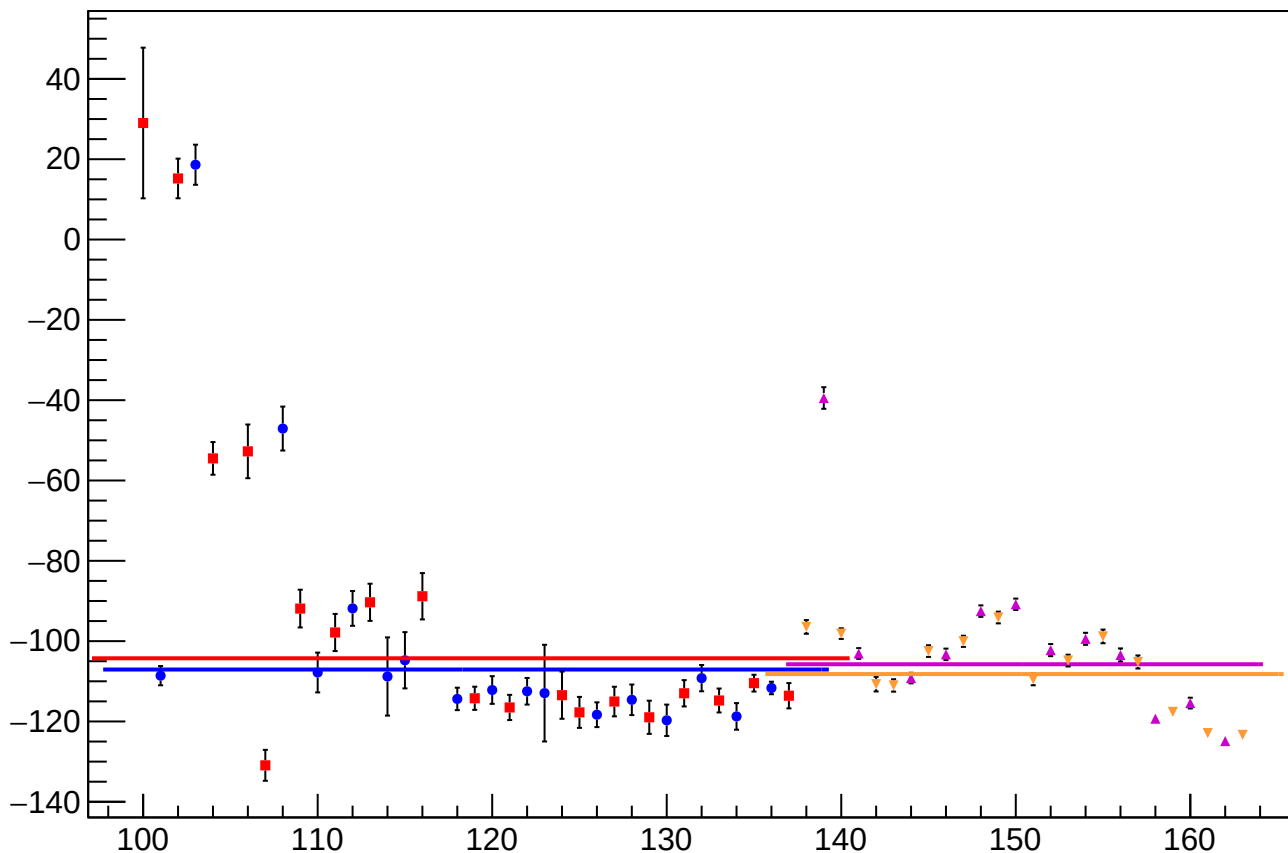
Left In:  $-102.018 \pm 0.483$   $\chi^2/\text{NDF}$ : 300.7/11

+ sign  $-96.190 \pm 0.436$   $\chi^2/\text{NDF}$ : 1105.5/30

All:  $-96.843 \pm 0.315$   $\chi^2/\text{NDF}$ : 2358.7/61

- sign  $-97.557 \pm 0.456$   $\chi^2/\text{NDF}$ : 1248.5/30

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-107.066 \pm 0.811$   $\chi^2/\text{NDF}$ : 828.4/16

Left Out:  $-108.200 \pm 0.385$   $\chi^2/\text{NDF}$ : 654.8/13

Right Out:  $-104.269 \pm 0.861$   $\chi^2/\text{NDF}$ : 1018.6/18

Left In:  $-105.753 \pm 0.408$   $\chi^2/\text{NDF}$ : 1288.7/11

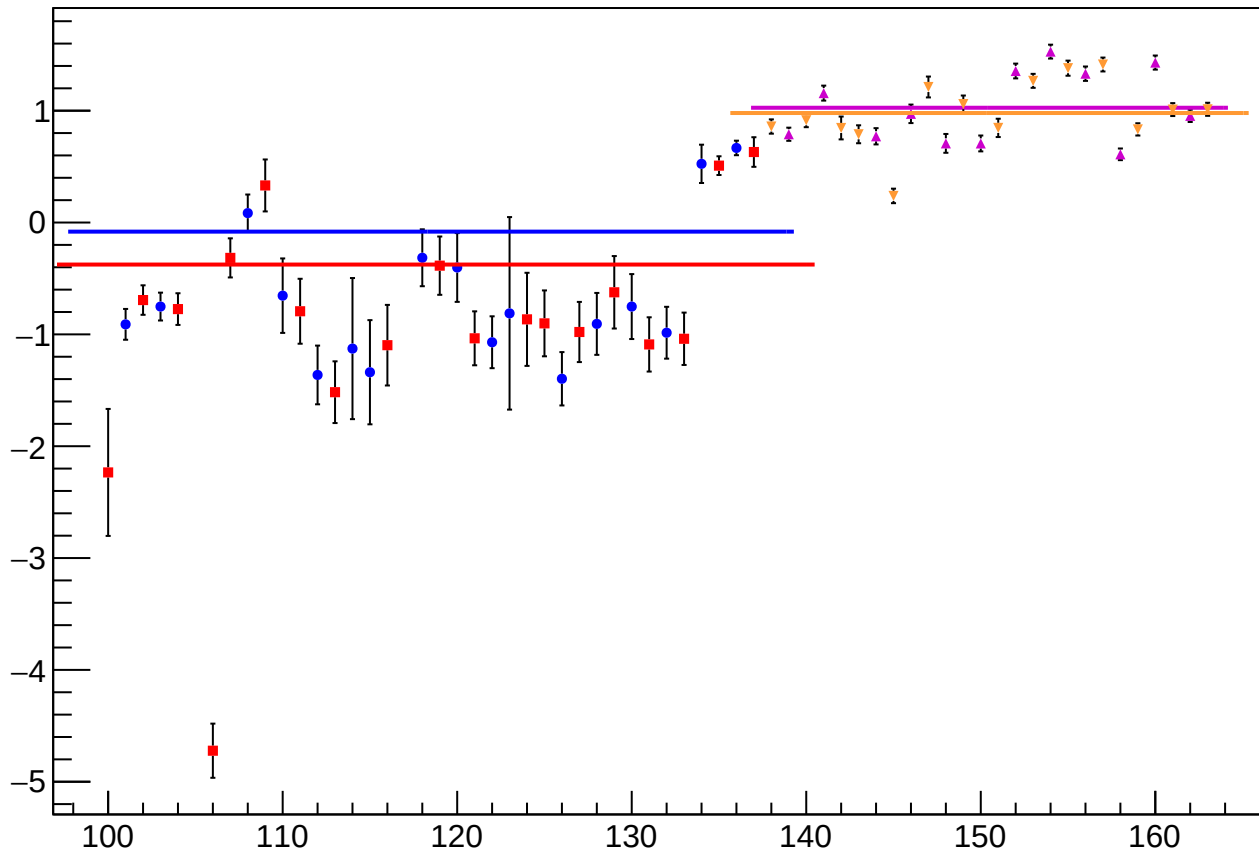
+ sign  $-107.992 \pm 0.348$   $\chi^2/\text{NDF}$ : 1484.8/30

All:  $-106.810 \pm 0.253$   $\chi^2/\text{NDF}$ : 3819.1/61

- sign  $-105.481 \pm 0.369$   $\chi^2/\text{NDF}$ : 2309.7/30



# reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.081 \pm 0.042$   $\chi^2/\text{NDF}$ : 329.0/16

Left Out:  $0.979 \pm 0.018$   $\chi^2/\text{NDF}$ : 265.4/13

Right Out:  $-0.376 \pm 0.044$   $\chi^2/\text{NDF}$ : 583.0/18

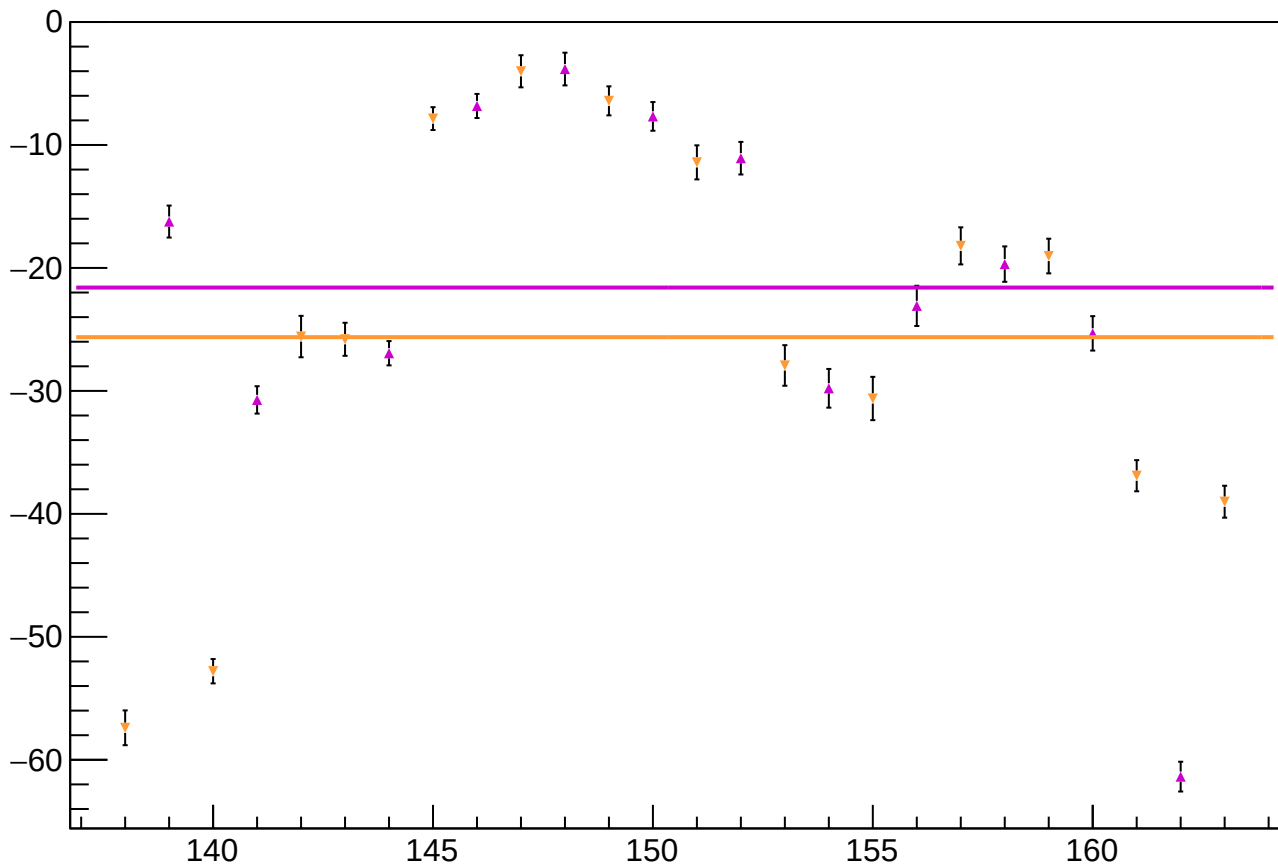
Left In:  $1.026 \pm 0.019$   $\chi^2/\text{NDF}$ : 286.3/11

+ sign  $0.816 \pm 0.017$   $\chi^2/\text{NDF}$ : 1129.4/30

All:  $0.814 \pm 0.012$   $\chi^2/\text{NDF}$ : 2862.9/61

- sign  $0.811 \pm 0.017$   $\chi^2/\text{NDF}$ : 1733.4/30

# reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.630 $\pm$ 0.348  $\chi^2/\text{NDF}$ : 2509.4/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

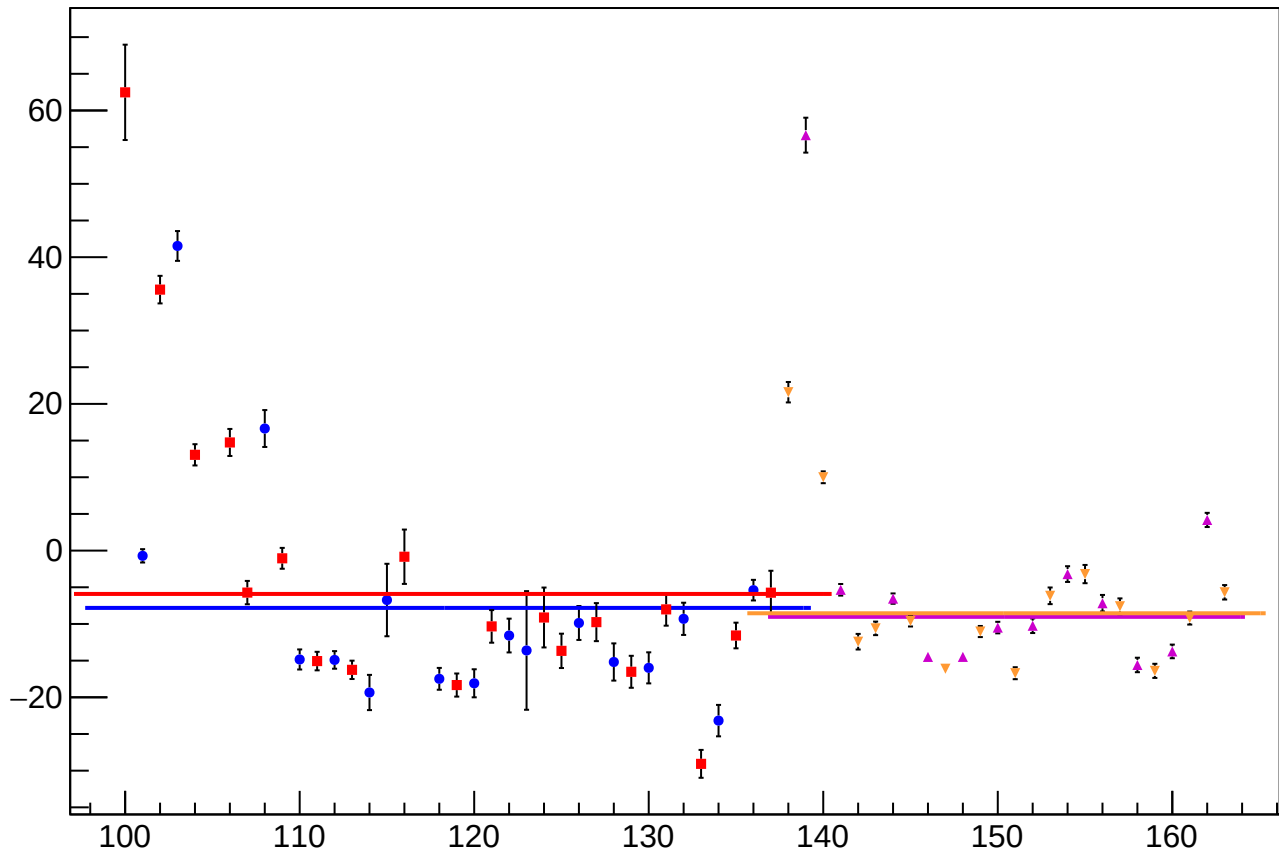
Left In: -21.596 $\pm$ 0.358  $\chi^2/\text{NDF}$ : 1840.1/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -23.672 $\pm$ 0.250  $\chi^2/\text{NDF}$ : 4414.7/25

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.812 \pm 0.427$   $\chi^2/\text{NDF}$ : 982.8/16

Left Out:  $-8.544 \pm 0.240$   $\chi^2/\text{NDF}$ : 1370.7/13

Right Out:  $-5.908 \pm 0.429$   $\chi^2/\text{NDF}$ : 1293.1/18

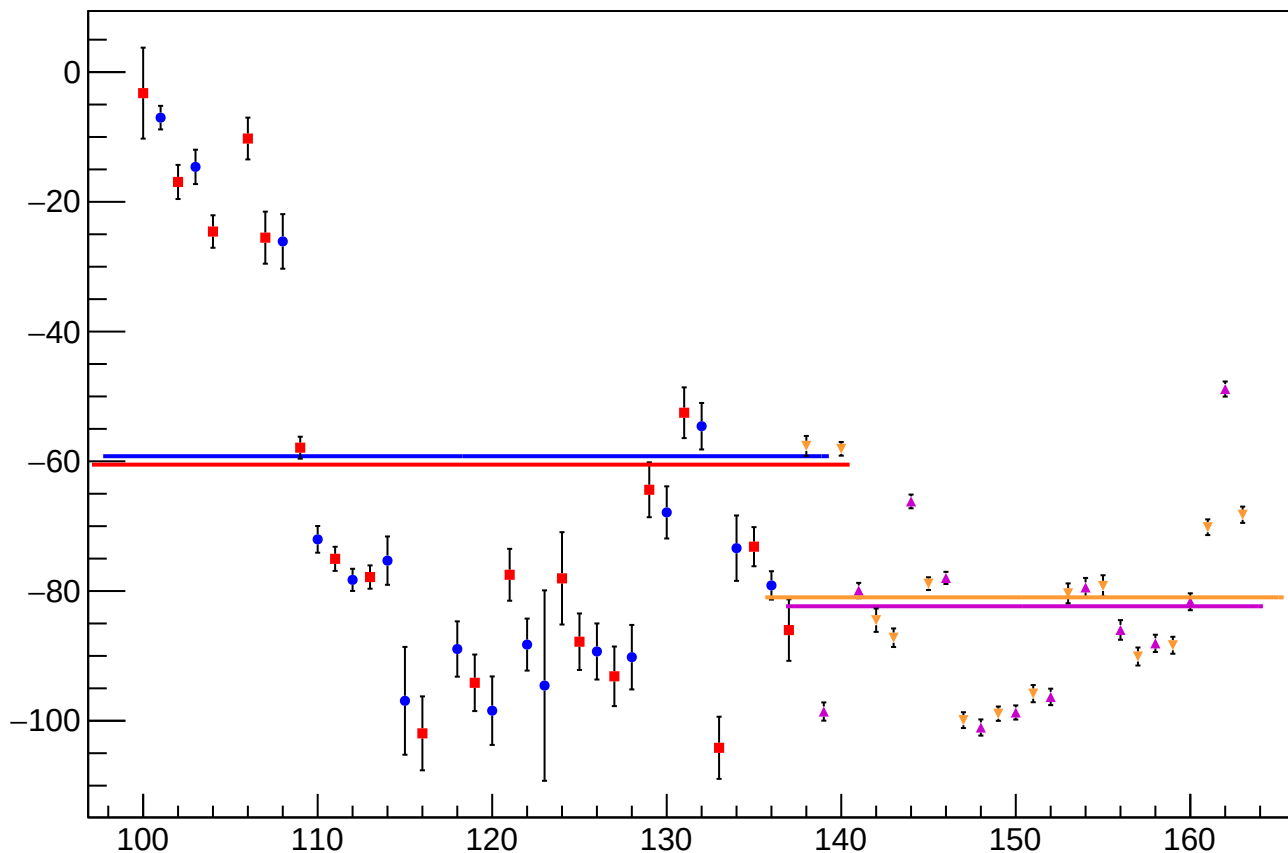
Left In:  $-9.029 \pm 0.248$   $\chi^2/\text{NDF}$ : 1238.0/11

+ sign  $-8.368 \pm 0.209$   $\chi^2/\text{NDF}$ : 2355.7/30

All:  $-8.310 \pm 0.150$   $\chi^2/\text{NDF}$ : 4926.6/61

- sign  $-8.250 \pm 0.214$   $\chi^2/\text{NDF}$ : 2570.8/30

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -59.214 $\pm$ 0.744  $\chi^2/\text{NDF}$ : 1720.4/16

Left Out: -80.971 $\pm$ 0.344  $\chi^2/\text{NDF}$ : 1621.6/13

Right Out: -60.513 $\pm$ 0.704  $\chi^2/\text{NDF}$ : 1383.9/18

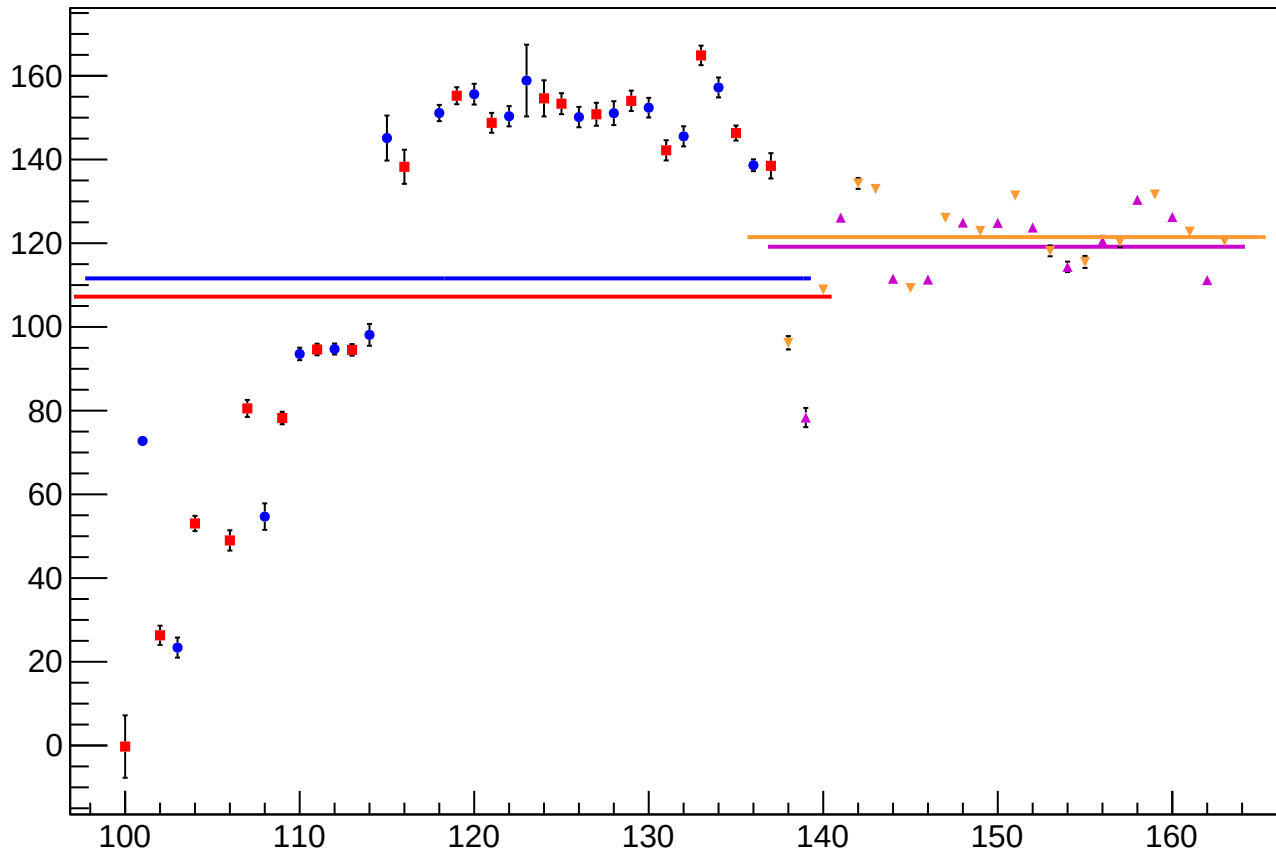
Left In: -82.349 $\pm$ 0.350  $\chi^2/\text{NDF}$ : 1817.1/11

+ sign -77.133 $\pm$ 0.312  $\chi^2/\text{NDF}$ : 4046.8/30

All: -77.572 $\pm$ 0.221  $\chi^2/\text{NDF}$ : 8022.5/61

- sign -78.014 $\pm$ 0.314  $\chi^2/\text{NDF}$ : 3971.7/30

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $111.599 \pm 0.487$   $\chi^2/\text{NDF}: 5959.5/16$

Left Out:  $121.467 \pm 0.284$   $\chi^2/\text{NDF}: 1061.2/13$

Right Out:  $107.238 \pm 0.488$   $\chi^2/\text{NDF}: 7037.4/18$

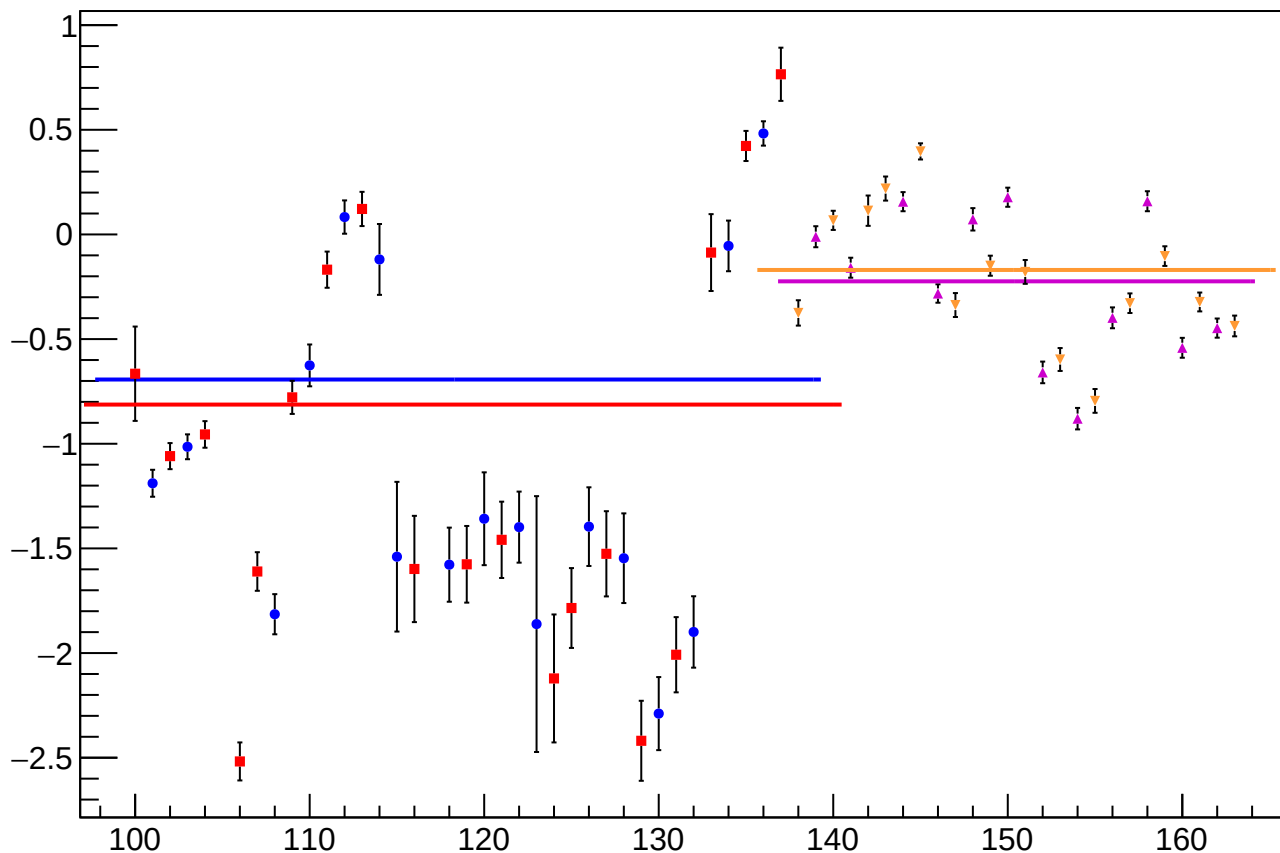
Left In:  $119.161 \pm 0.292$   $\chi^2/\text{NDF}: 896.0/11$

+ sign  $118.958 \pm 0.245$   $\chi^2/\text{NDF}: 7327.4/30$

All:  $117.515 \pm 0.175$   $\chi^2/\text{NDF}: 15771.1/61$

- sign  $116.009 \pm 0.251$   $\chi^2/\text{NDF}: 8373.1/30$

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.693 \pm 0.026$   $\chi^2/\text{NDF}$ : 993.1/16

Left Out:  $-0.170 \pm 0.014$   $\chi^2/\text{NDF}$ : 559.9/13

Right Out:  $-0.813 \pm 0.024$   $\chi^2/\text{NDF}$ : 1310.7/18

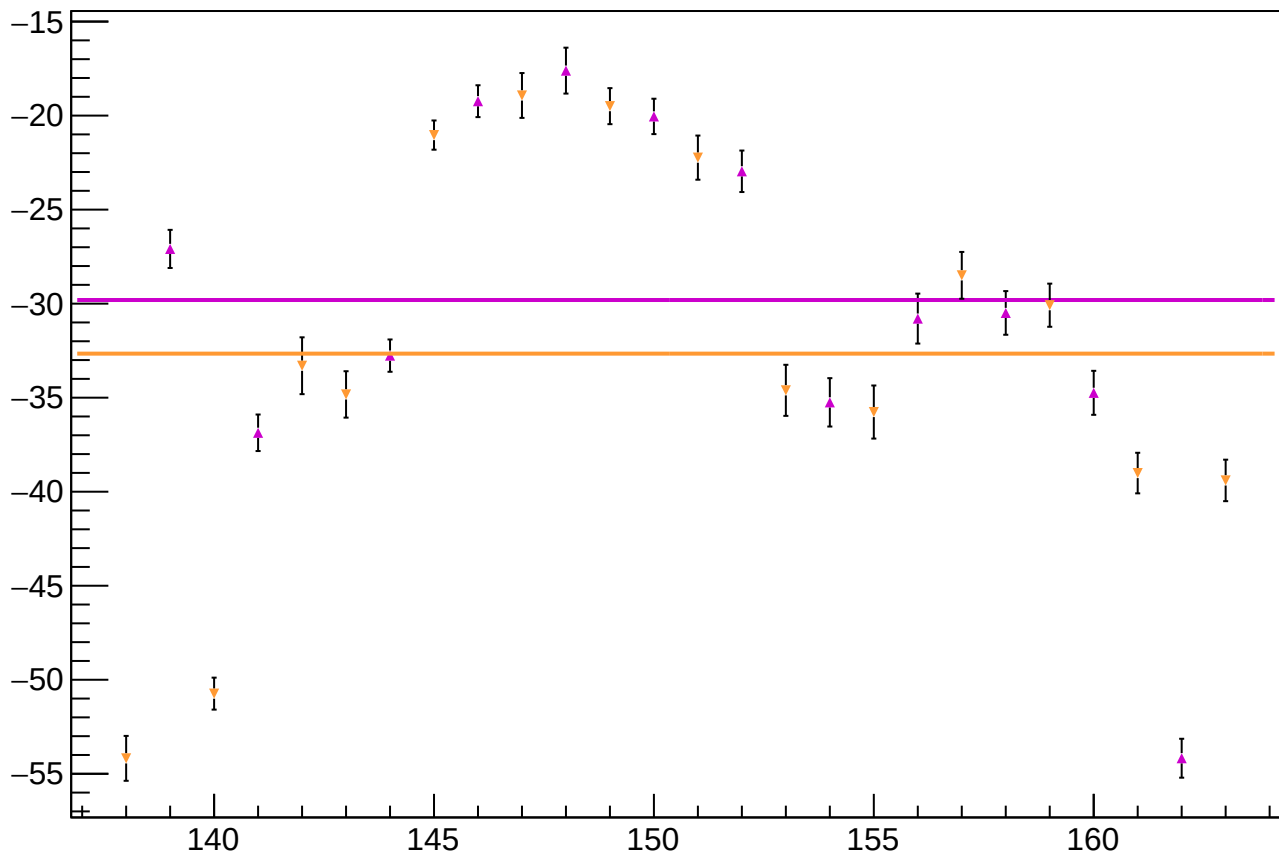
Left In:  $-0.224 \pm 0.014$   $\chi^2/\text{NDF}$ : 578.6/11

+ sign  $-0.284 \pm 0.012$   $\chi^2/\text{NDF}$ : 1875.6/30

All:  $-0.326 \pm 0.009$   $\chi^2/\text{NDF}$ : 4231.3/61

- sign  $-0.369 \pm 0.012$   $\chi^2/\text{NDF}$ : 2330.6/30

# reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -32.658+/-0.295  $\chi^2/\text{NDF}$ :1499.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

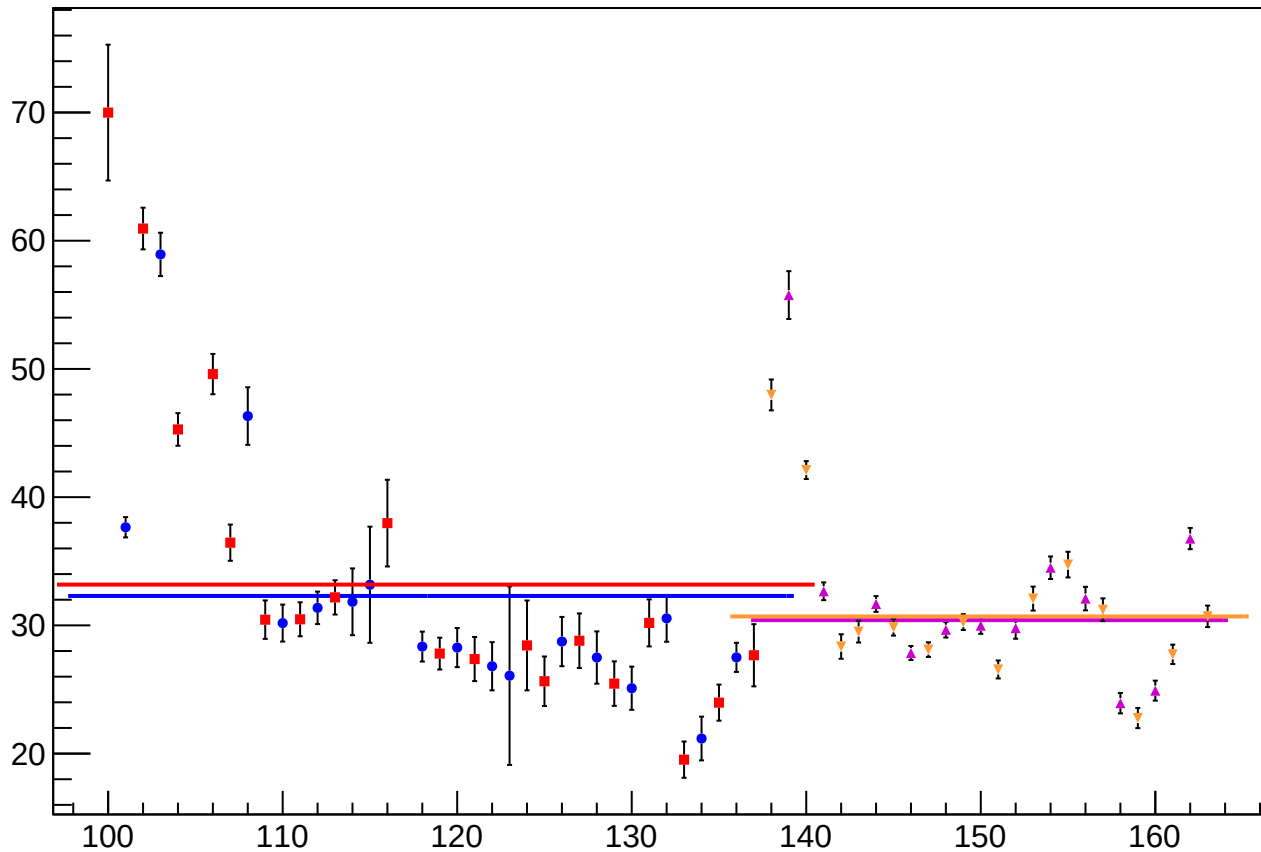
Left In: -29.806+/-0.302  $\chi^2/\text{NDF}$ :1064.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -31.264+/-0.211  $\chi^2/\text{NDF}$ : 2610.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 32.295 $\pm$ 0.373  $\chi^2/\text{NDF}$ : 452.2/16

Left Out: 30.696 $\pm$ 0.206  $\chi^2/\text{NDF}$ : 675.0/13

Right Out: 33.180 $\pm$ 0.379  $\chi^2/\text{NDF}$ : 770.3/18

Left In: 30.408 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 424.1/11

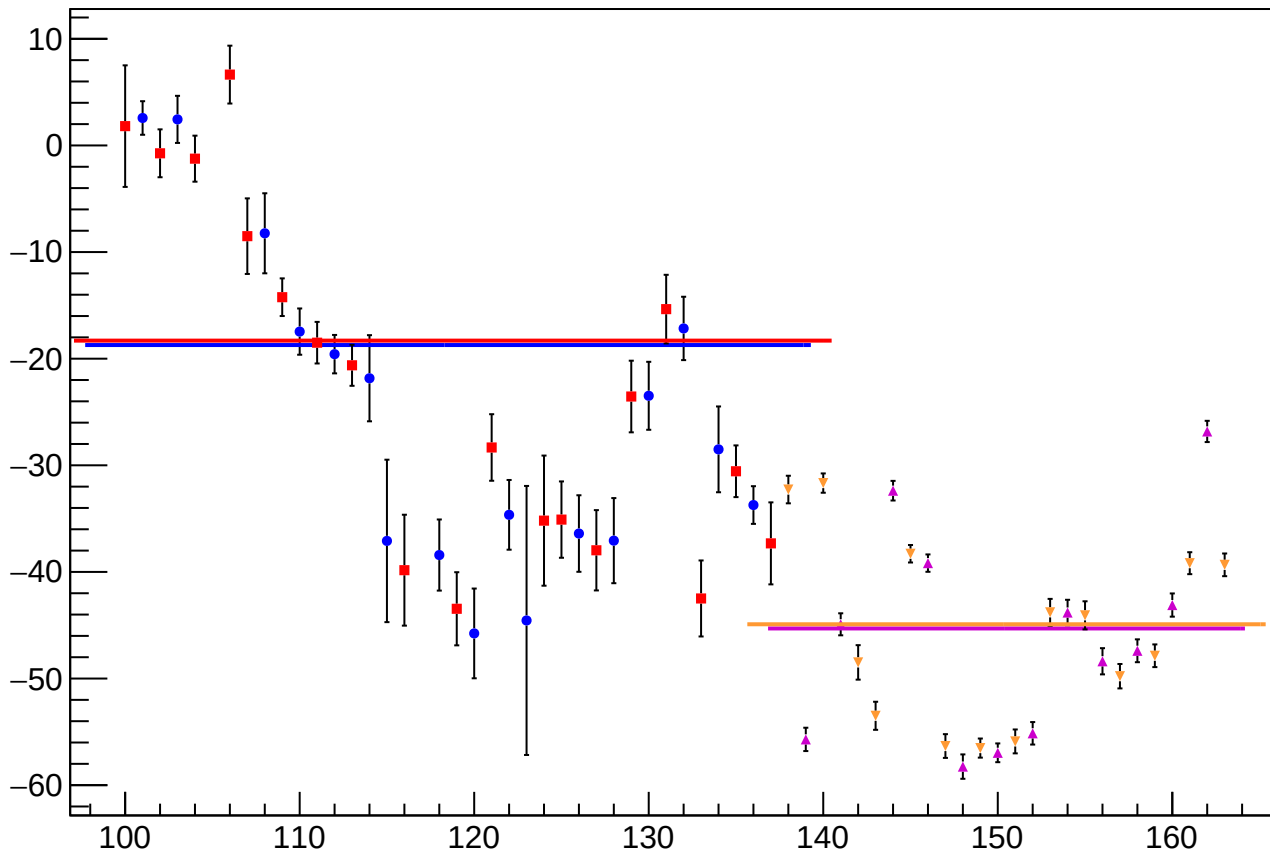
+ sign 31.070 $\pm$ 0.180  $\chi^2/\text{NDF}$ : 1141.3/30

All: 31.070 $\pm$ 0.129  $\chi^2/\text{NDF}$ : 2376.4/61

- sign 31.069 $\pm$ 0.185  $\chi^2/\text{NDF}$ : 1235.1/30



# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-18.721 \pm 0.665$   $\chi^2/\text{NDF}$ : 519.6/16

Left Out:  $-44.910 \pm 0.291$   $\chi^2/\text{NDF}$ : 876.4/13

Right Out:  $-18.306 \pm 0.644$   $\chi^2/\text{NDF}$ : 472.6/18

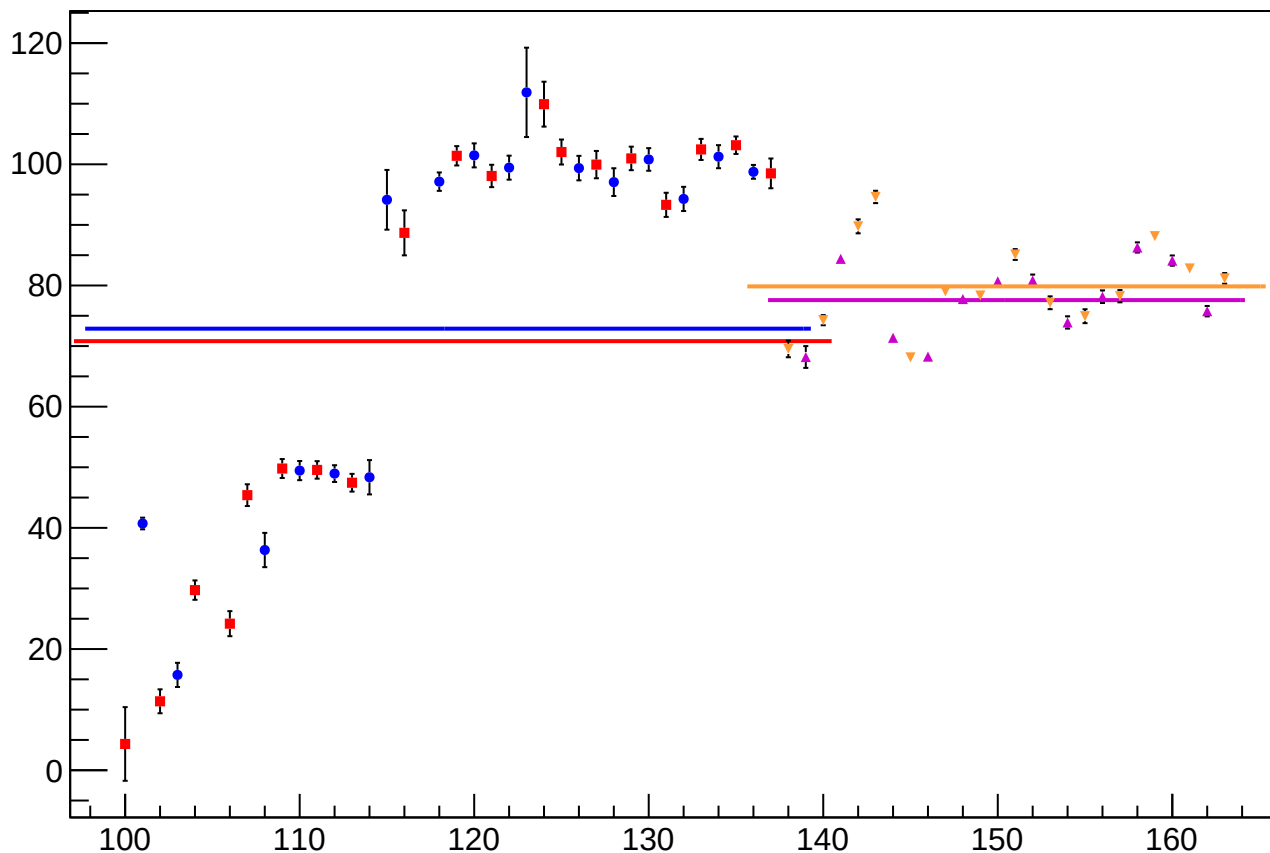
Left In:  $-45.303 \pm 0.295$   $\chi^2/\text{NDF}$ : 1094.5/11

+ sign  $-40.700 \pm 0.267$   $\chi^2/\text{NDF}$ : 2696.1/30

All:  $-40.658 \pm 0.189$   $\chi^2/\text{NDF}$ : 5717.7/61

- sign  $-40.617 \pm 0.268$   $\chi^2/\text{NDF}$ : 3021.6/30

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 72.875 $\pm$ 0.426  $\chi^2$ /NDF: 4737.9/16

Left Out: 79.851 $\pm$ 0.242  $\chi^2$ /NDF: 817.0/13

Right Out: 70.815 $\pm$ 0.433  $\chi^2$ /NDF: 5489.3/18

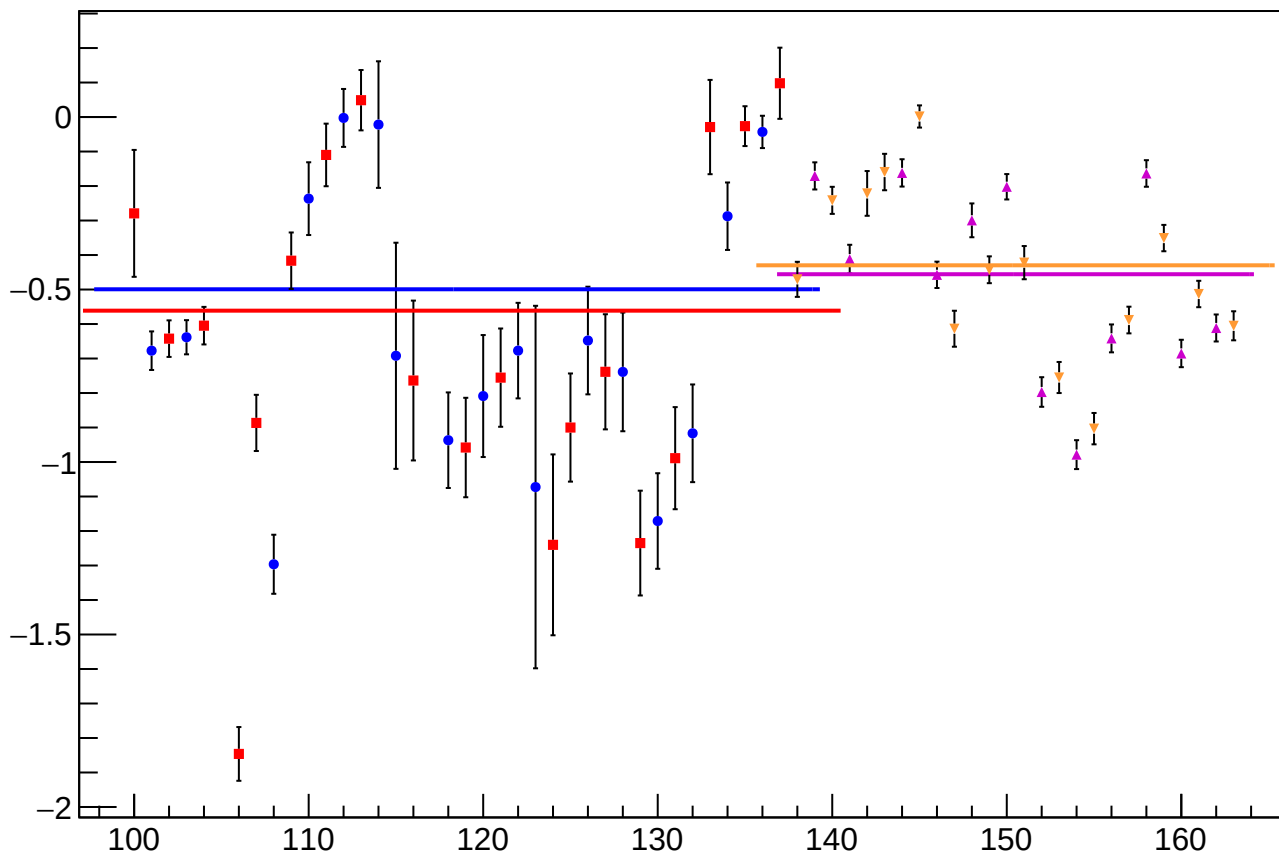
Left In: 77.588 $\pm$ 0.248  $\chi^2$ /NDF: 570.4/11

+ sign 78.147 $\pm$ 0.210  $\chi^2$ /NDF: 5757.8/30

All: 77.056 $\pm$ 0.151  $\chi^2$ /NDF: 12056.4/61

- sign 75.911 $\pm$ 0.216  $\chi^2$ /NDF: 6243.6/30

# reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.499 \pm 0.022$   $\chi^2/\text{NDF}$ : 303.5/16

Left Out:  $-0.430 \pm 0.011$   $\chi^2/\text{NDF}$ : 456.4/13

Right Out:  $-0.561 \pm 0.021$   $\chi^2/\text{NDF}$ : 562.3/18

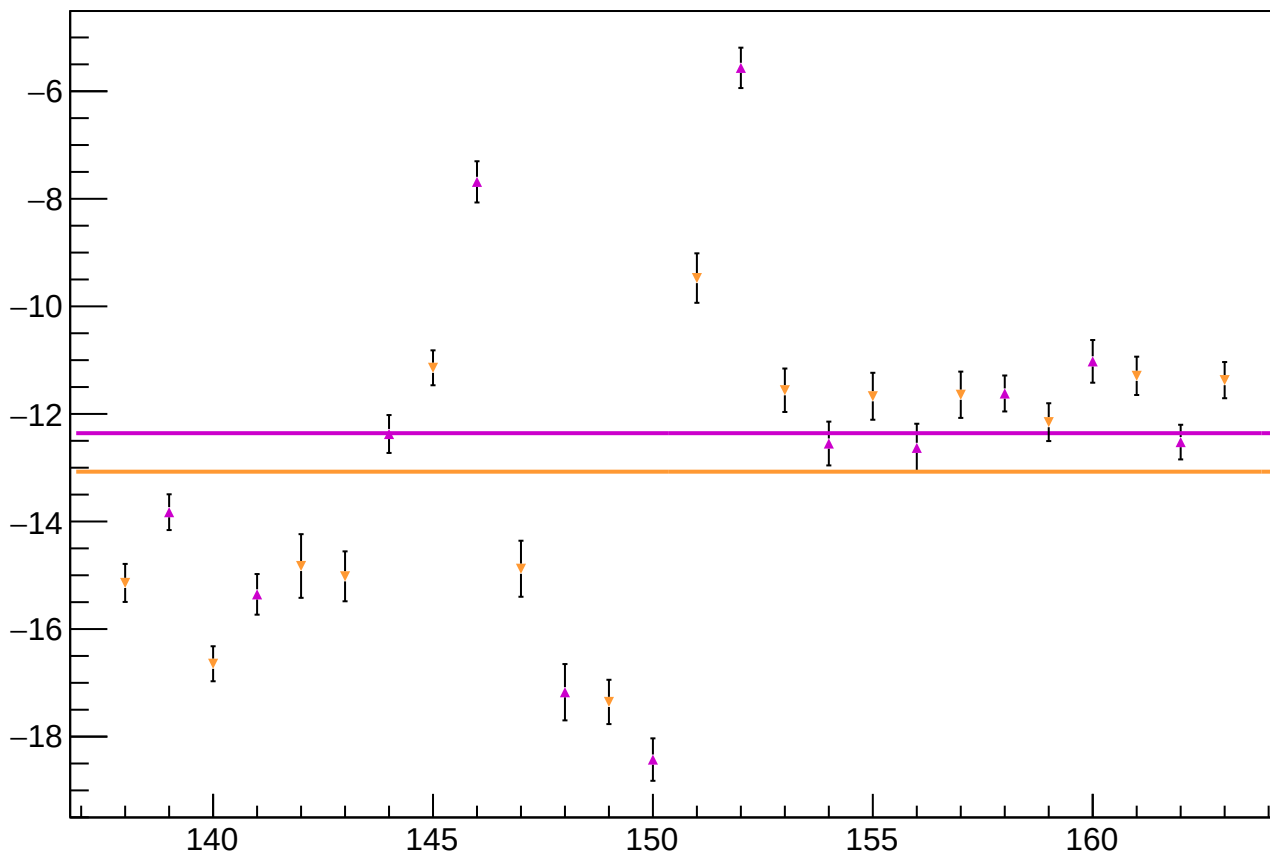
Left In:  $-0.456 \pm 0.012$   $\chi^2/\text{NDF}$ : 513.3/11

+ sign  $-0.444 \pm 0.010$   $\chi^2/\text{NDF}$ : 767.6/30

All:  $-0.462 \pm 0.007$   $\chi^2/\text{NDF}$ : 1868.1/61

- sign  $-0.480 \pm 0.010$   $\chi^2/\text{NDF}$ : 1094.5/30

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -13.074+/-0.105  $\chi^2/\text{NDF}$ : 490.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

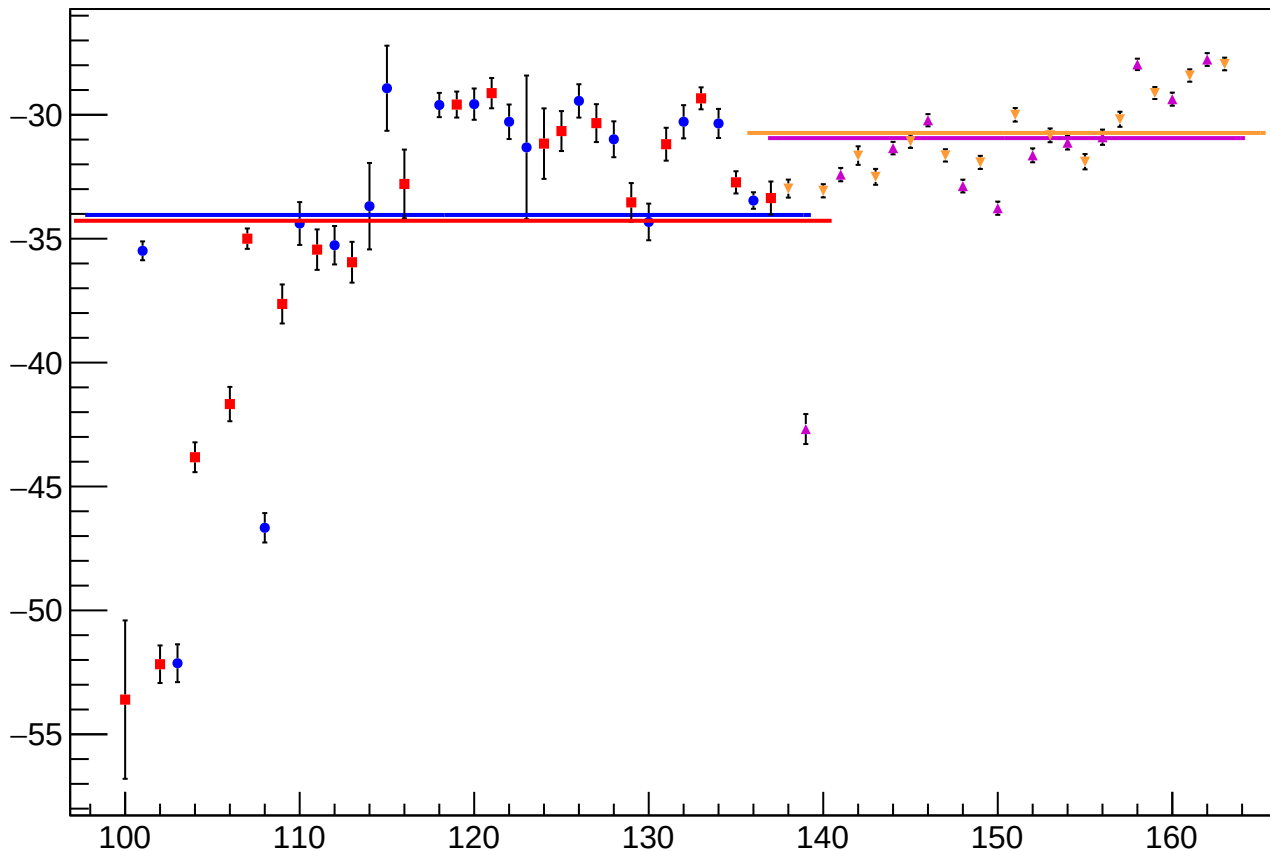
Left In: -12.358+/-0.109  $\chi^2/\text{NDF}$ : 896.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -12.729+/-0.076  $\chi^2/\text{NDF}$ : 1409.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-34.042 \pm 0.151$   $\chi^2/\text{NDF}: 1340.8/16$

Left Out:  $-30.732 \pm 0.075$   $\chi^2/\text{NDF}: 458.7/13$

Right Out:  $-34.277 \pm 0.151$   $\chi^2/\text{NDF}: 1349.5/18$

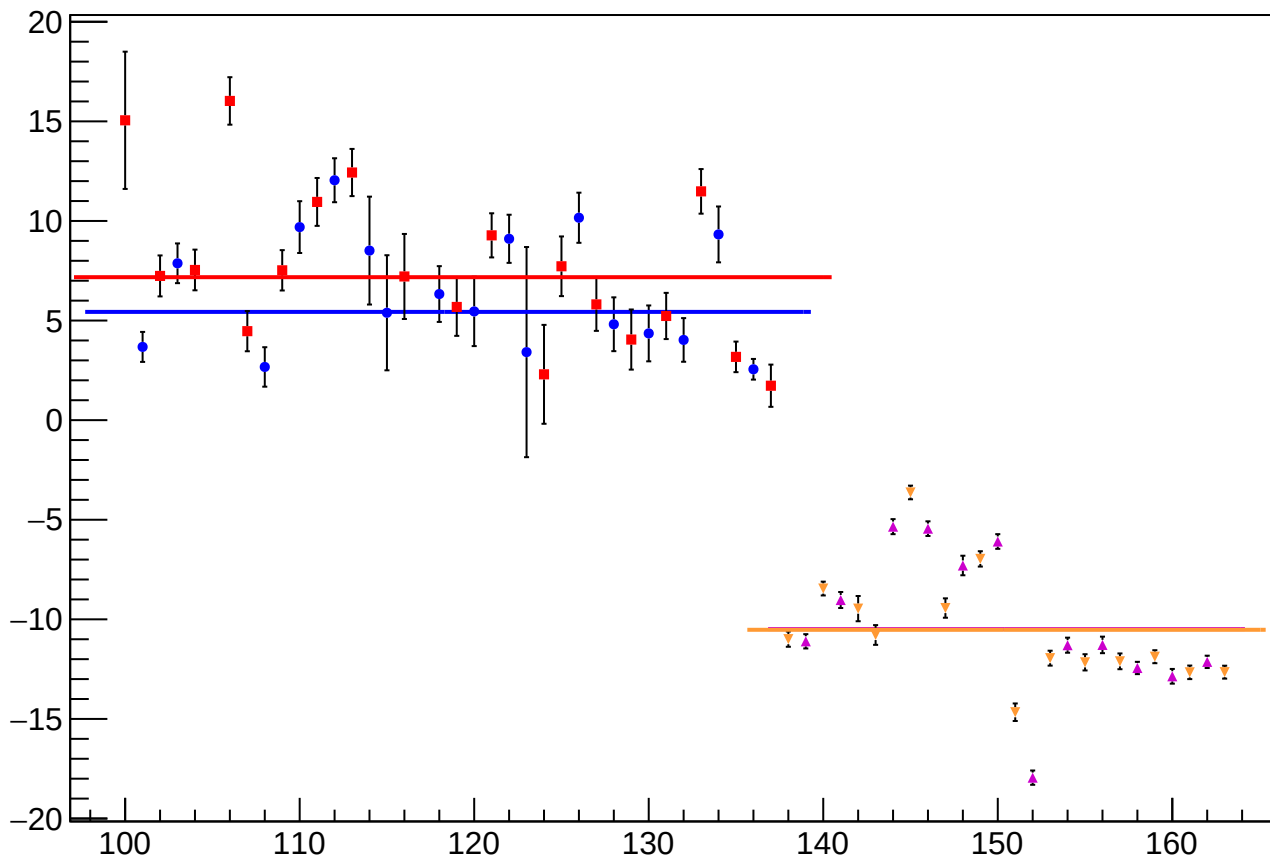
Left In:  $-30.941 \pm 0.079$   $\chi^2/\text{NDF}: 944.9/11$

+ sign  $-31.388 \pm 0.067$   $\chi^2/\text{NDF}: 2186.3/30$

All:  $-31.516 \pm 0.048$   $\chi^2/\text{NDF}: 4872.8/61$

- sign  $-31.654 \pm 0.070$   $\chi^2/\text{NDF}: 2679.0/30$

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $5.435 \pm 0.270$   $\chi^2/\text{NDF}$ : 132.0/16

Left Out:  $-10.525 \pm 0.103$   $\chi^2/\text{NDF}$ : 769.0/13

Right Out:  $7.177 \pm 0.274$   $\chi^2/\text{NDF}$ : 182.6/18

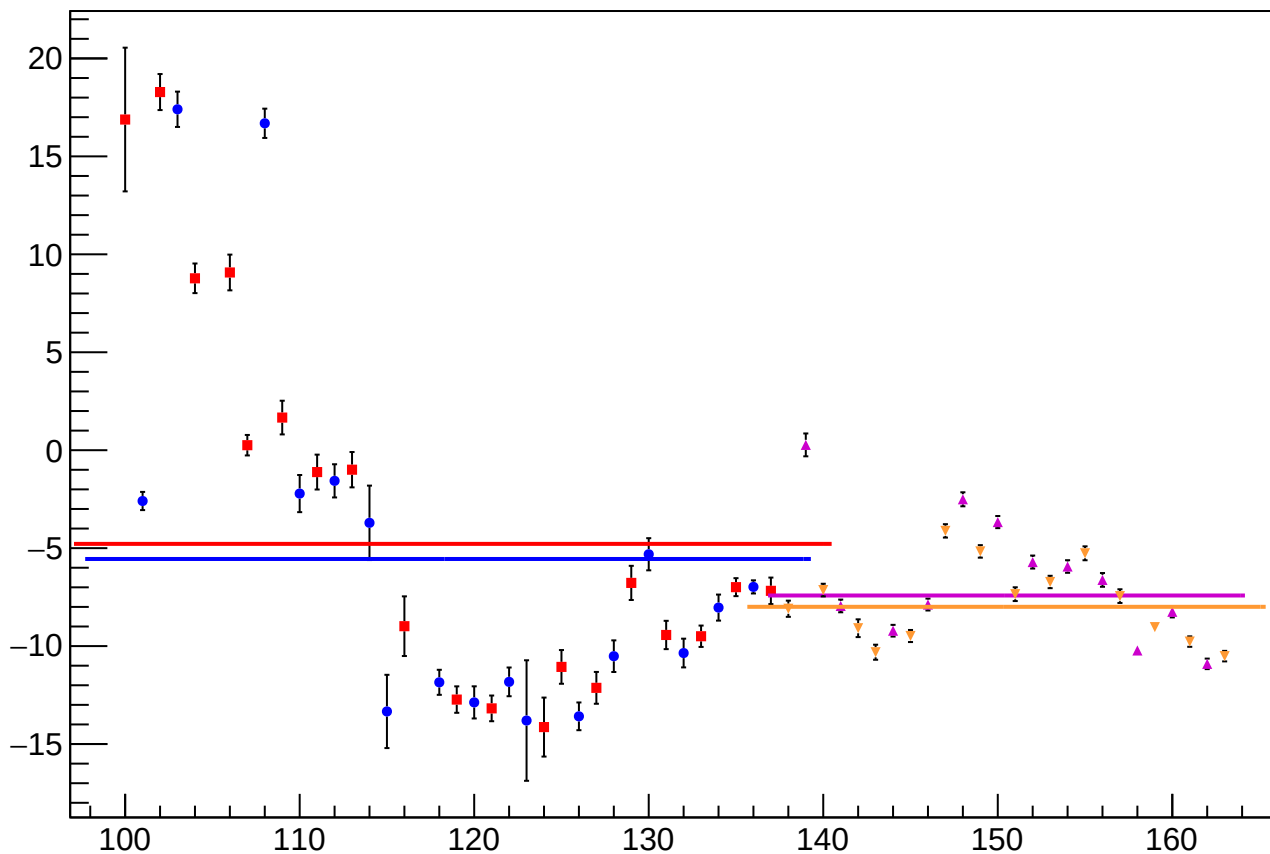
Left In:  $-10.489 \pm 0.106$   $\chi^2/\text{NDF}$ : 1122.7/11

+ sign  $-8.475 \pm 0.097$   $\chi^2/\text{NDF}$ : 3955.9/30

All:  $-8.332 \pm 0.069$   $\chi^2/\text{NDF}$ : 8875.7/61

- sign  $-8.183 \pm 0.099$   $\chi^2/\text{NDF}$ : 4915.3/30

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-5.553 \pm 0.170$   $\chi^2/\text{NDF}$ : 2125.3/16

Left Out:  $-7.995 \pm 0.087$   $\chi^2/\text{NDF}$ : 509.0/13

Right Out:  $-4.782 \pm 0.173$   $\chi^2/\text{NDF}$ : 2040.4/18

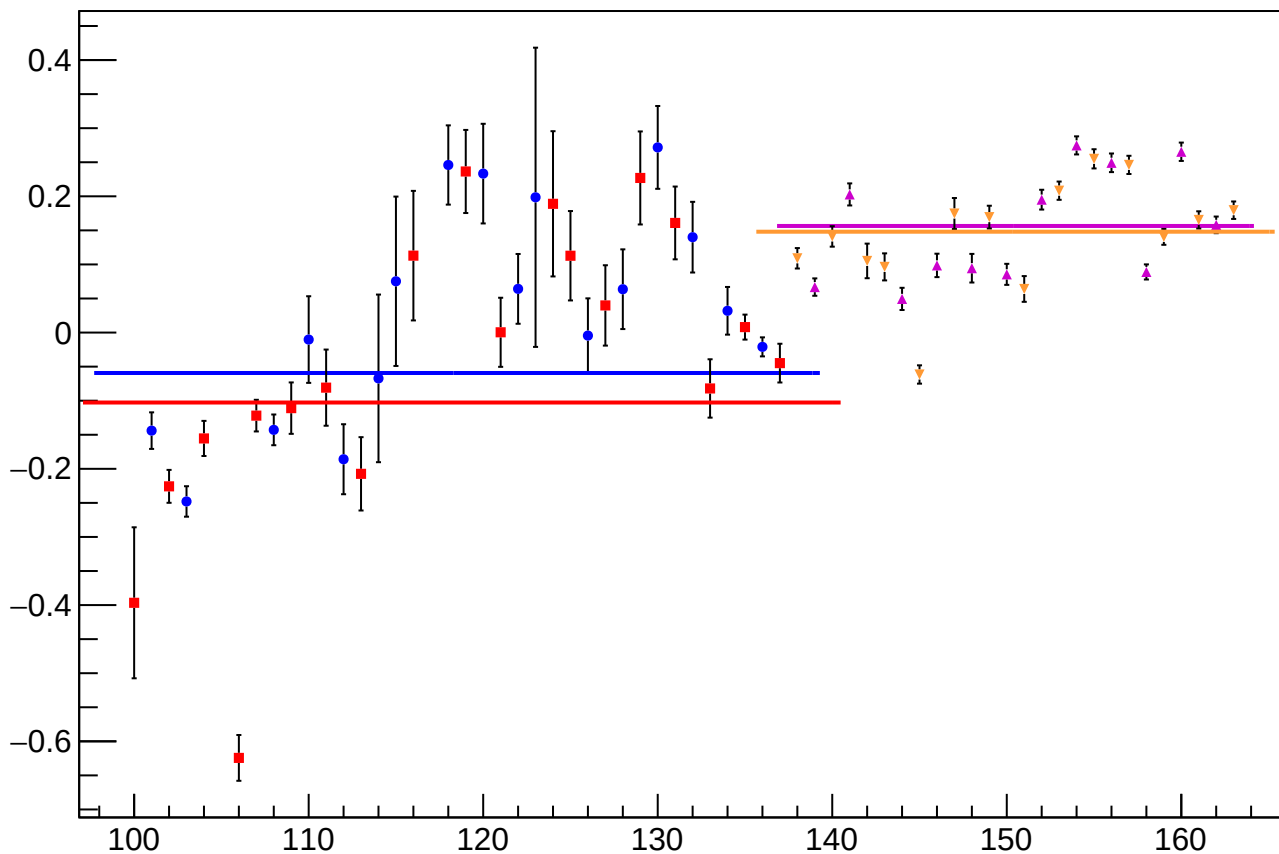
Left In:  $-7.417 \pm 0.090$   $\chi^2/\text{NDF}$ : 913.5/11

+ sign  $-7.492 \pm 0.077$   $\chi^2/\text{NDF}$ : 2798.3/30

All:  $-7.184 \pm 0.056$   $\chi^2/\text{NDF}$ : 5968.0/61

- sign  $-6.852 \pm 0.080$   $\chi^2/\text{NDF}$ : 3136.5/30

# reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.059 \pm 0.008$   $\chi^2/\text{NDF}$ : 217.6/16

Left Out:  $0.148 \pm 0.004$   $\chi^2/\text{NDF}$ : 422.5/13

Right Out:  $-0.103 \pm 0.008$   $\chi^2/\text{NDF}$ : 435.5/18

Left In:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 376.9/11

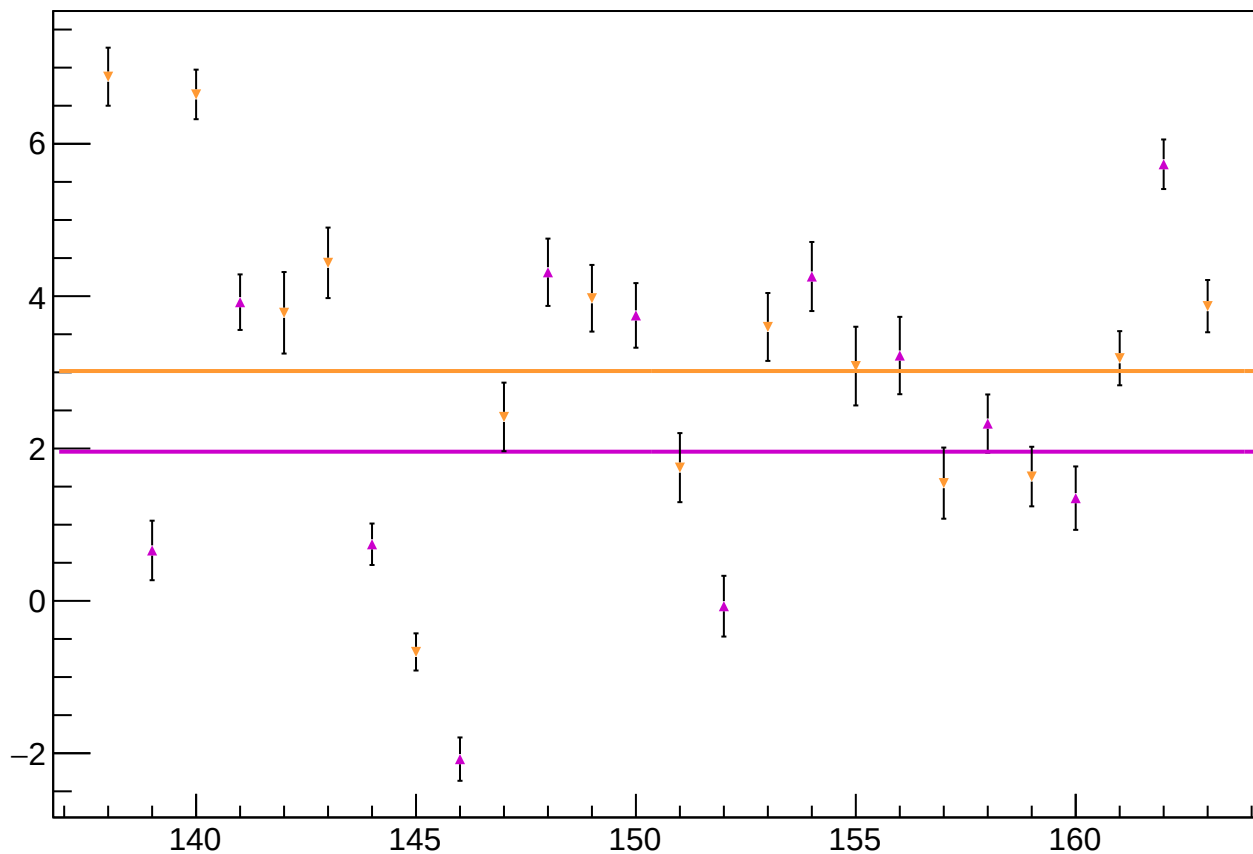
+ sign  $0.110 \pm 0.004$   $\chi^2/\text{NDF}$ : 1138.1/30

All:  $0.108 \pm 0.003$   $\chi^2/\text{NDF}$ : 2717.1/61

- sign  $0.107 \pm 0.004$   $\chi^2/\text{NDF}$ : 1578.7/30



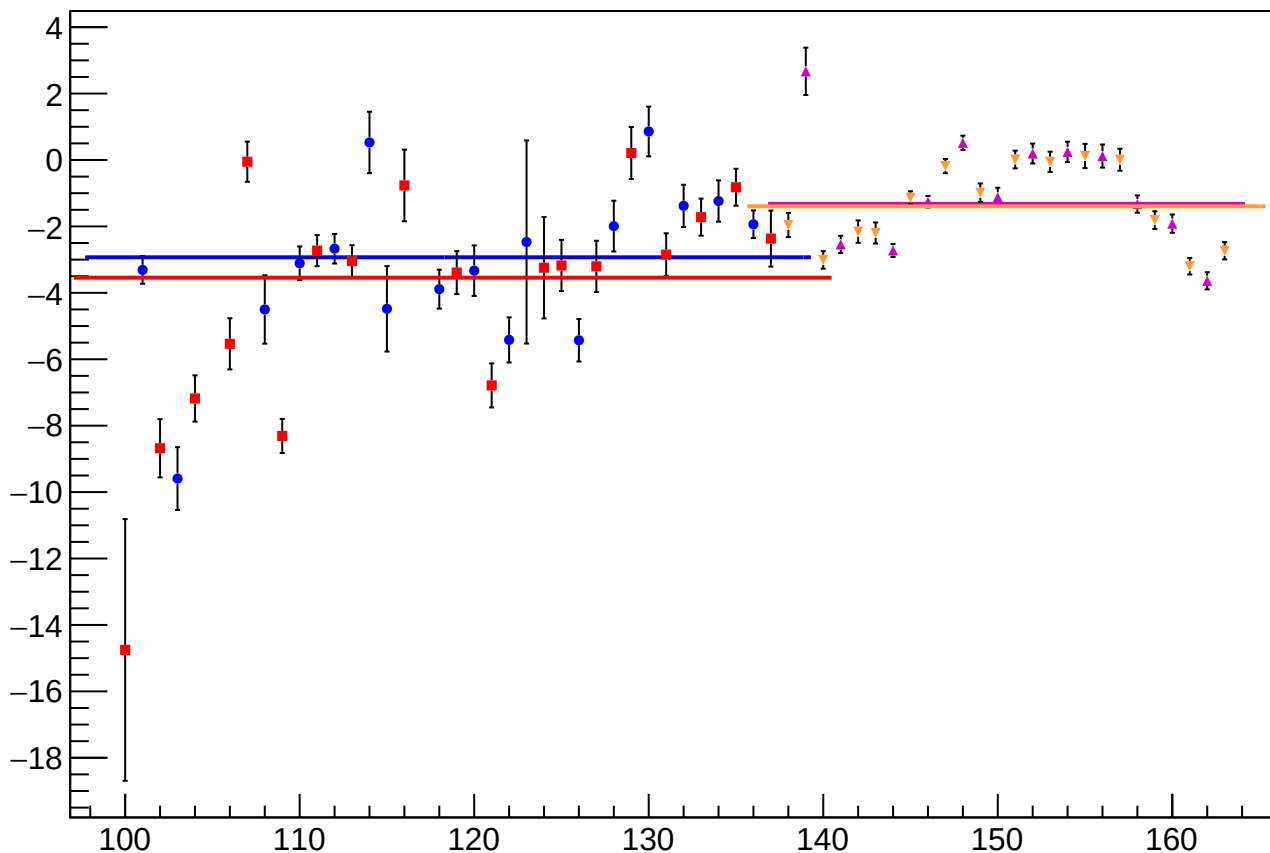
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $3.017 \pm 0.104$   $\chi^2/\text{NDF}: 512.5/13$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $1.958 \pm 0.107$   $\chi^2/\text{NDF}: 502.8/11$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 All:  $2.502 \pm 0.074$   $\chi^2/\text{NDF}: 1065.8/25$   
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.930 \pm 0.154$   $\chi^2/\text{NDF}$ : 146.5/16

Left Out:  $-1.395 \pm 0.073$   $\chi^2/\text{NDF}$ : 251.2/13

Right Out:  $-3.544 \pm 0.155$   $\chi^2/\text{NDF}$ : 291.7/18

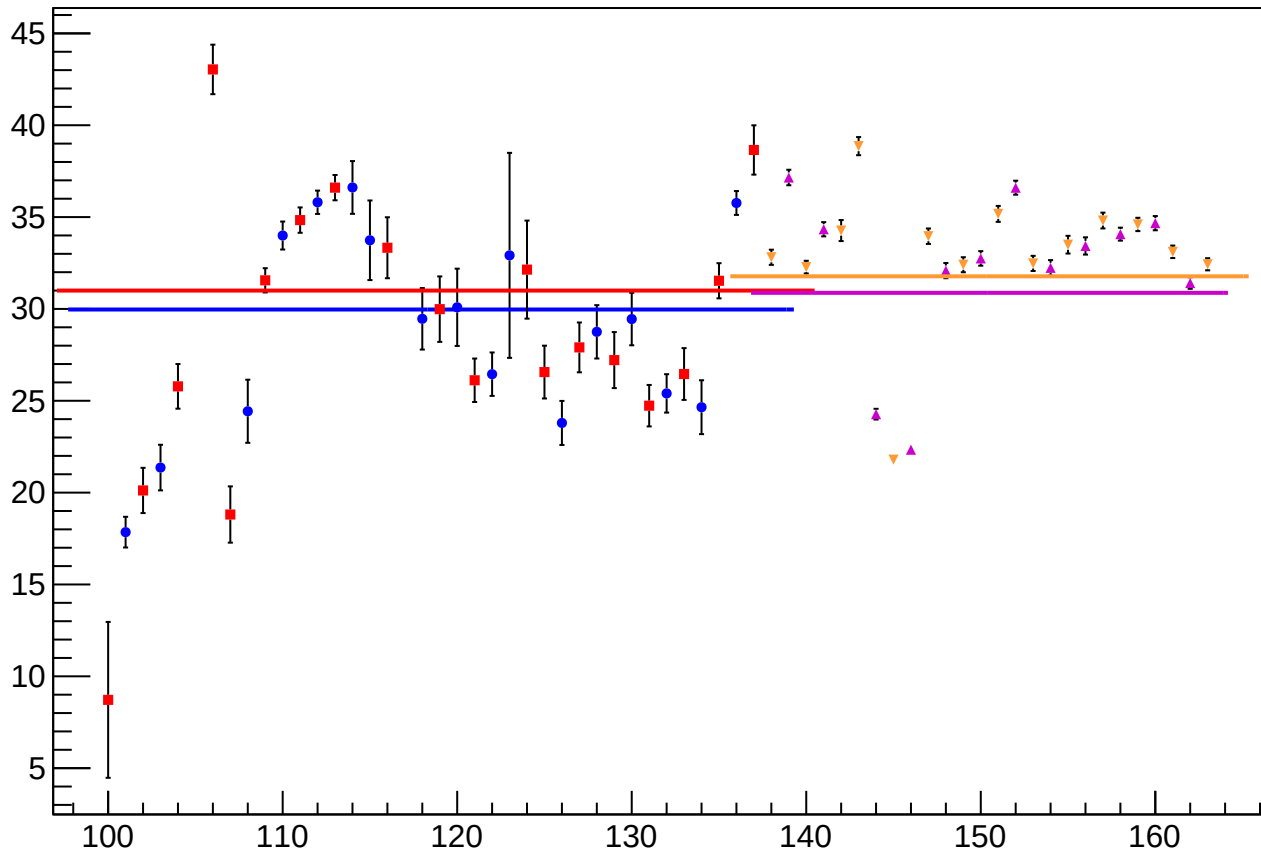
Left In:  $-1.322 \pm 0.074$   $\chi^2/\text{NDF}$ : 332.3/11

+ sign  $-1.677 \pm 0.066$   $\chi^2/\text{NDF}$ : 479.0/30

All:  $-1.706 \pm 0.047$   $\chi^2/\text{NDF}$ : 1271.3/61

- sign  $-1.736 \pm 0.067$   $\chi^2/\text{NDF}$ : 792.0/30

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $29.969 \pm 0.267$   $\chi^2/\text{NDF}$ : 554.3/16

Left Out:  $31.775 \pm 0.103$   $\chi^2/\text{NDF}$ : 1946.6/13

Right Out:  $31.000 \pm 0.260$   $\chi^2/\text{NDF}$ : 479.5/18

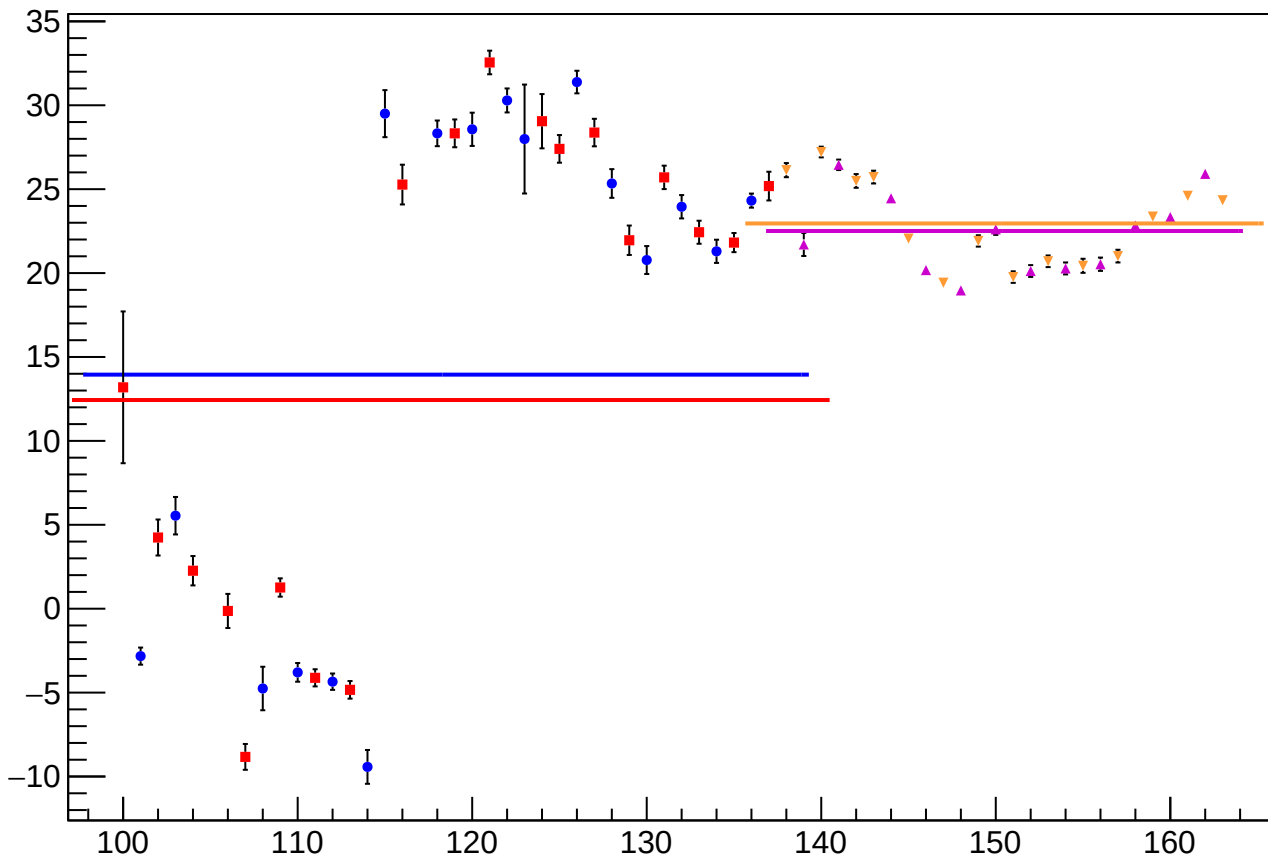
Left In:  $30.876 \pm 0.105$   $\chi^2/\text{NDF}$ : 2268.6/11

+ sign  $31.541 \pm 0.096$   $\chi^2/\text{NDF}$ : 2540.8/30

All:  $31.220 \pm 0.068$   $\chi^2/\text{NDF}$ : 5311.6/61

- sign  $30.893 \pm 0.097$   $\chi^2/\text{NDF}$ : 2748.3/30

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 13.948 $\pm$ 0.172  $\chi^2$ /NDF: 7391.9/16

Left Out: 22.957 $\pm$ 0.085  $\chi^2$ /NDF: 751.1/13

Right Out: 12.435 $\pm$ 0.174  $\chi^2$ /NDF: 6962.9/18

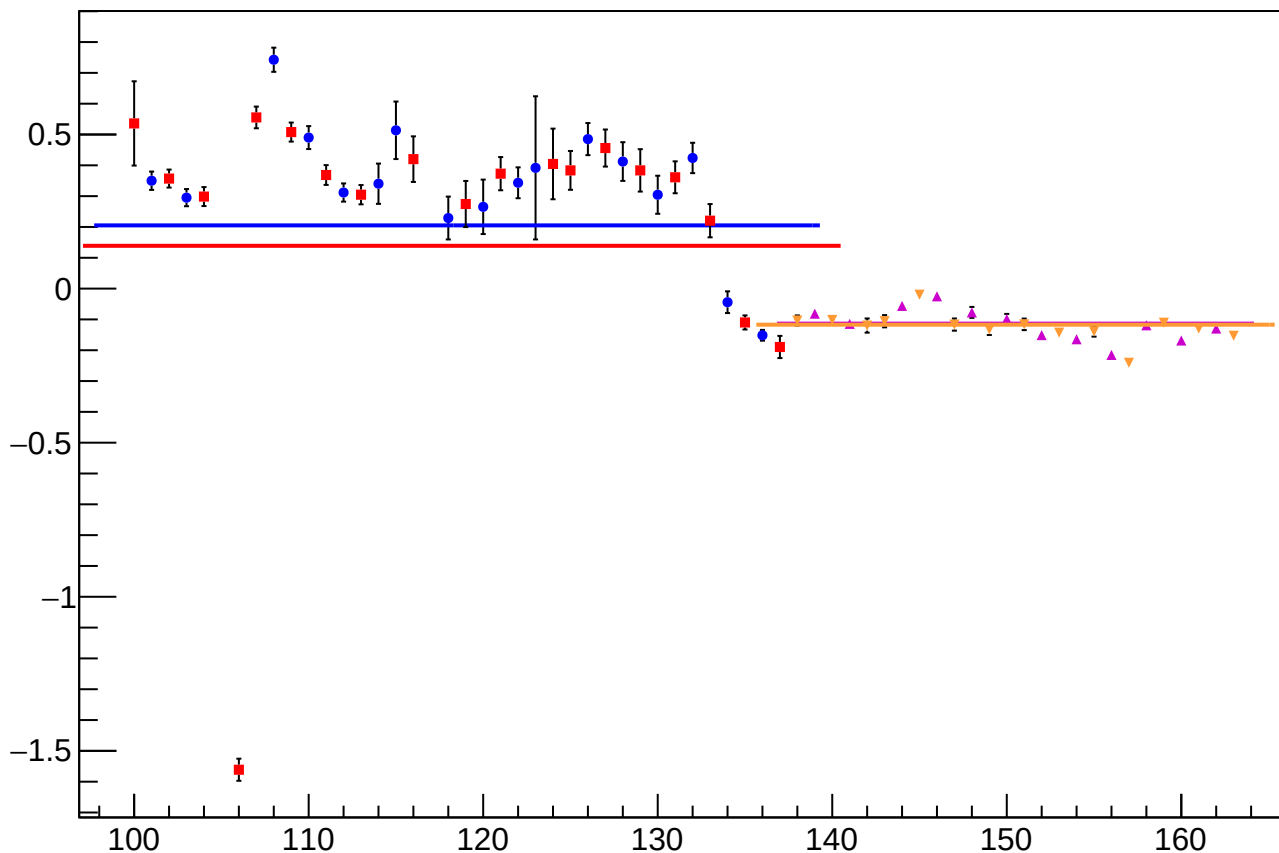
Left In: 22.508 $\pm$ 0.087  $\chi^2$ /NDF: 761.6/11

+ sign 21.179 $\pm$ 0.076  $\chi^2$ /NDF: 10345.8/30

All: 20.840 $\pm$ 0.054  $\chi^2$ /NDF: 20799.8/61

- sign 20.489 $\pm$ 0.078  $\chi^2$ /NDF: 10413.9/30

# reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.205 $\pm$ 0.009  $\chi^2$ /NDF: 846.2/16

Left Out: -0.117 $\pm$ 0.004  $\chi^2$ /NDF:180.6/13

Right Out: 0.139 $\pm$ 0.009  $\chi^2$ /NDF: 3016.8/18

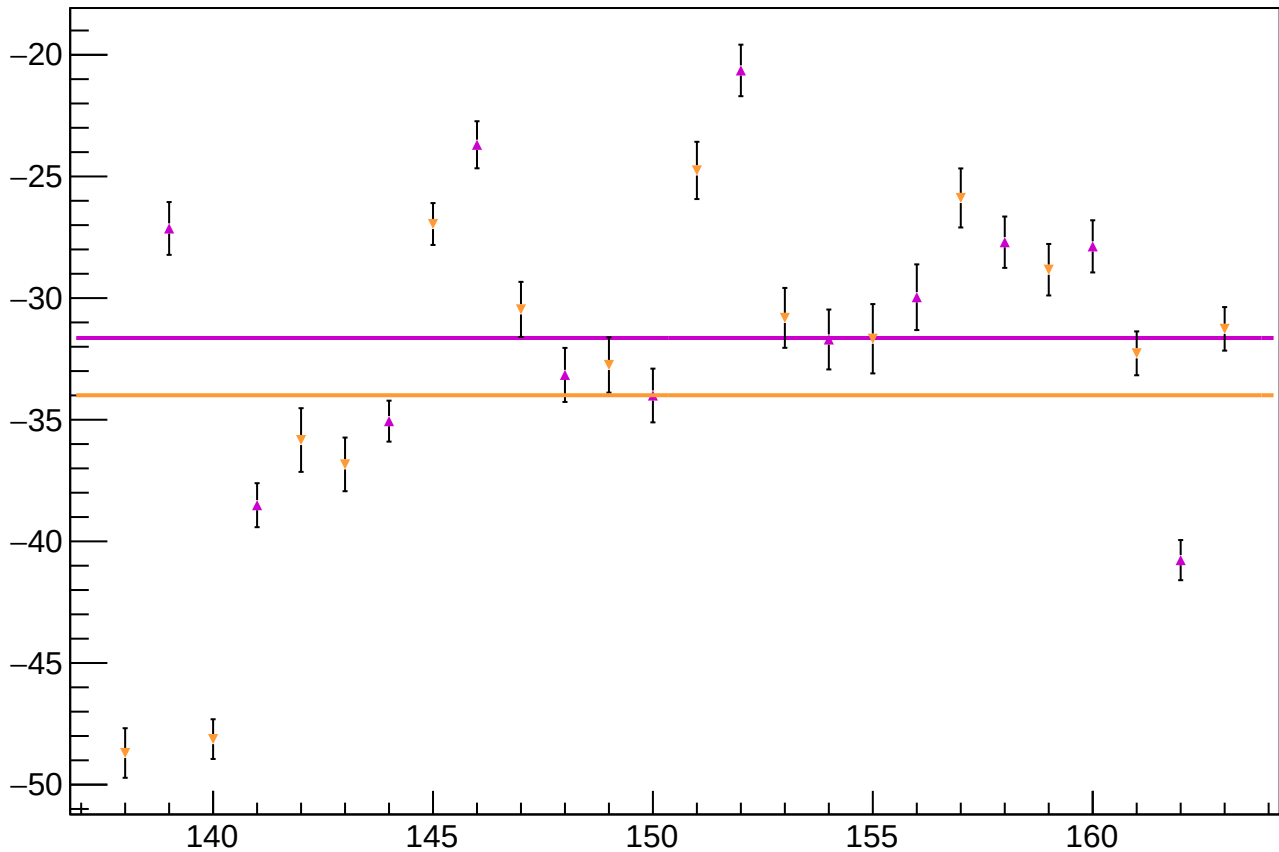
Left In: -0.114 $\pm$ 0.004  $\chi^2$ /NDF:156.9/11

+ sign -0.067 $\pm$ 0.004  $\chi^2$ /NDF: 2027.1/30

All: -0.069 $\pm$ 0.003  $\chi^2$ /NDF: 5828.7/61

- sign -0.071 $\pm$ 0.004  $\chi^2$ /NDF: 3800.9/30

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -33.993+/-0.281  $\chi^2/\text{NDF}$ : 746.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

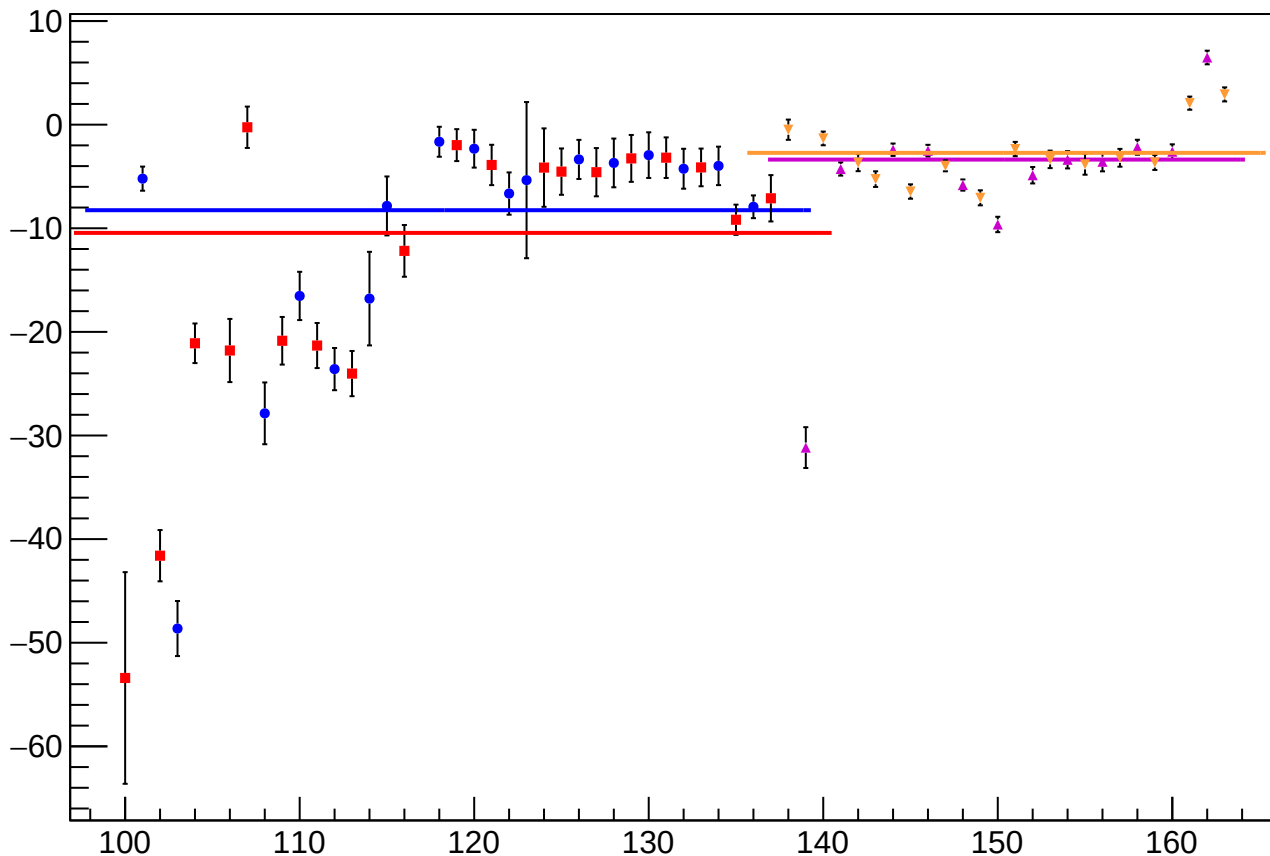
Left In: -31.640+/-0.295  $\chi^2/\text{NDF}$ : 423.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -32.874+/-0.203  $\chi^2/\text{NDF}$ : 1203.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-8.257 \pm 0.462$   $\chi^2/\text{NDF}$ : 412.1/16

Left Out:  $-2.721 \pm 0.195$   $\chi^2/\text{NDF}$ : 222.6/13

Right Out:  $-10.446 \pm 0.491$   $\chi^2/\text{NDF}$ : 428.4/18

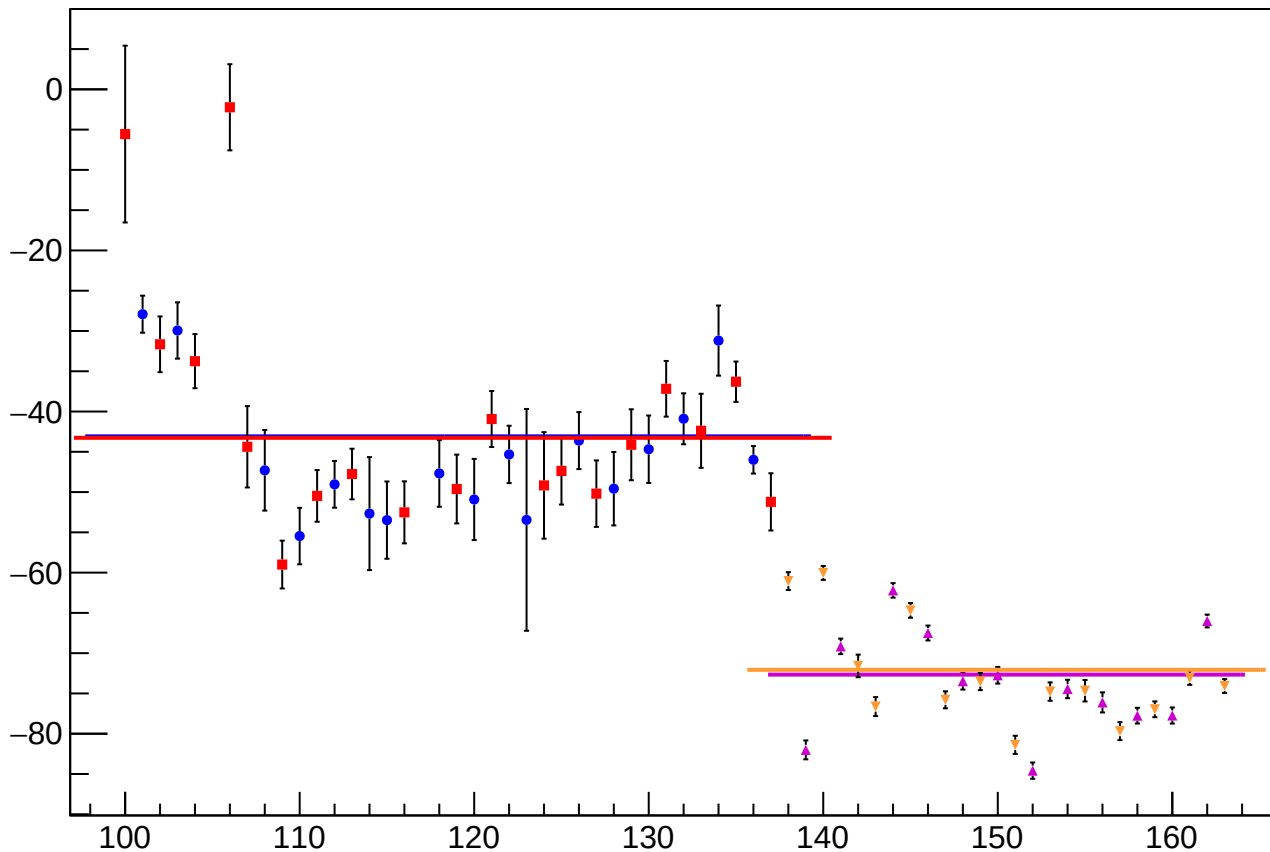
Left In:  $-3.371 \pm 0.203$   $\chi^2/\text{NDF}$ : 528.5/11

+ sign  $-3.555 \pm 0.179$   $\chi^2/\text{NDF}$ : 756.6/30

All:  $-3.961 \pm 0.130$   $\chi^2/\text{NDF}$ : 1901.3/61

- sign  $-4.405 \pm 0.188$   $\chi^2/\text{NDF}$ : 1134.1/30

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-43.082 \pm 0.834$   $\chi^2/\text{NDF}: 99.2/16$

Left Out:  $-72.068 \pm 0.277$   $\chi^2/\text{NDF}: 541.4/13$

Right Out:  $-43.262 \pm 0.866$   $\chi^2/\text{NDF}: 154.2/18$

Left In:  $-72.664 \pm 0.288$   $\chi^2/\text{NDF}: 515.1/11$

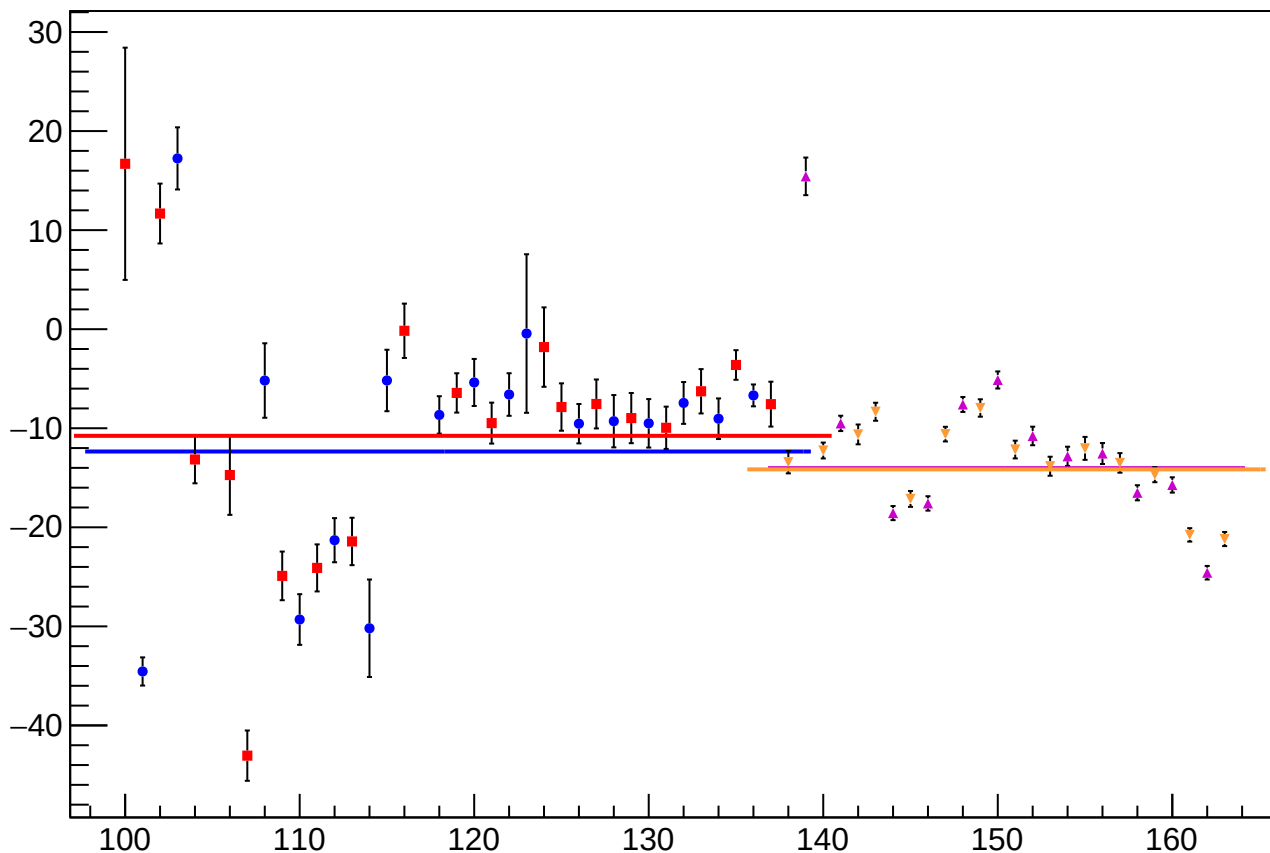
+ sign  $-69.182 \pm 0.263$   $\chi^2/\text{NDF}: 1727.6/30$

All:  $-69.453 \pm 0.189$   $\chi^2/\text{NDF}: 3436.3/61$

- sign  $-69.745 \pm 0.273$   $\chi^2/\text{NDF}: 1706.5/30$



# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.348 \pm 0.520$   $\chi^2/\text{NDF}$ : 475.9/16

Left Out:  $-14.153 \pm 0.228$   $\chi^2/\text{NDF}$ : 347.9/13

Right Out:  $-10.765 \pm 0.554$   $\chi^2/\text{NDF}$ : 366.6/18

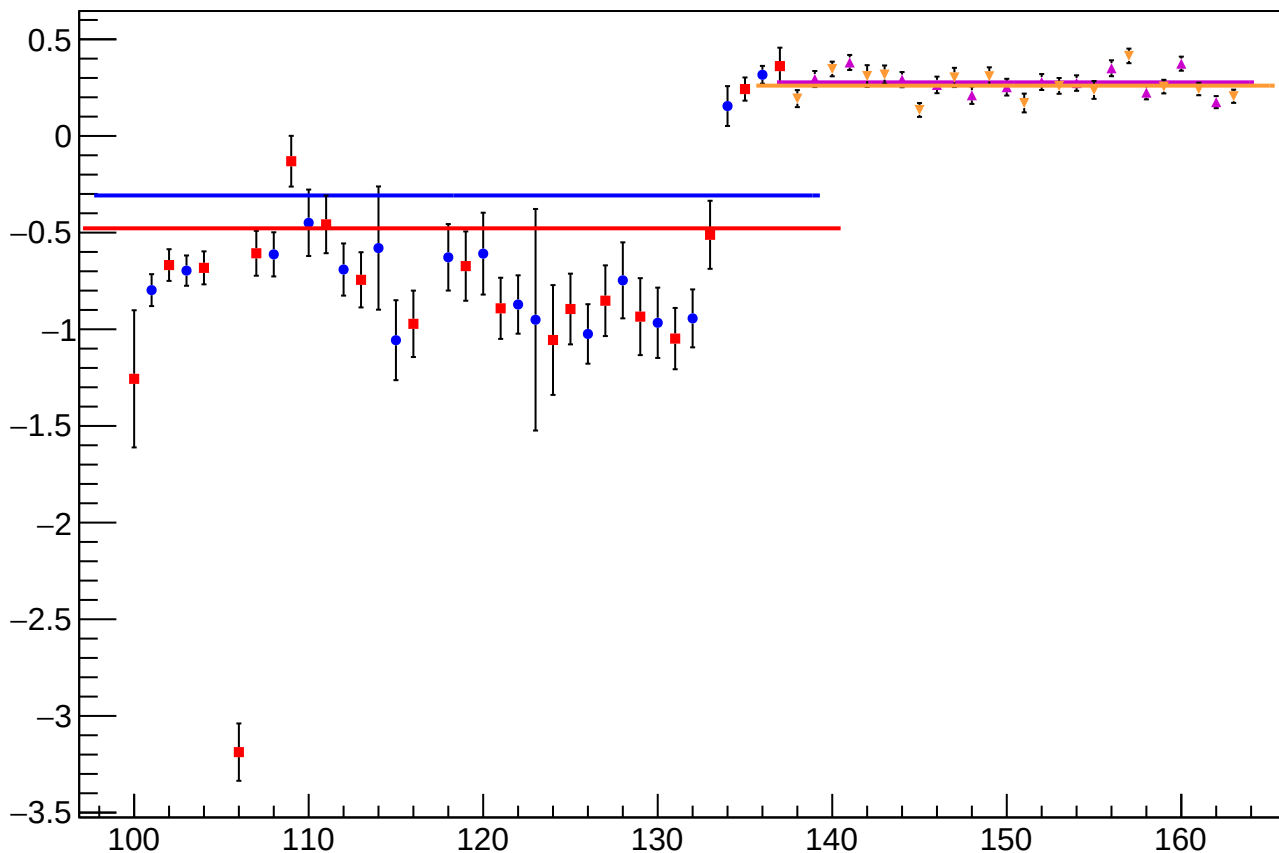
Left In:  $-14.029 \pm 0.239$   $\chi^2/\text{NDF}$ : 786.0/11

+ sign  $-13.861 \pm 0.209$   $\chi^2/\text{NDF}$ : 833.9/30

All:  $-13.697 \pm 0.151$   $\chi^2/\text{NDF}$ : 2017.1/61

- sign  $-13.516 \pm 0.219$   $\chi^2/\text{NDF}$ : 1181.9/30

# reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.308 \pm 0.028$   $\chi^2/\text{NDF}$ : 372.4/16

Left Out:  $0.260 \pm 0.011$   $\chi^2/\text{NDF}$ : 47.1/13

Right Out:  $-0.478 \pm 0.029$   $\chi^2/\text{NDF}$ : 631.2/18

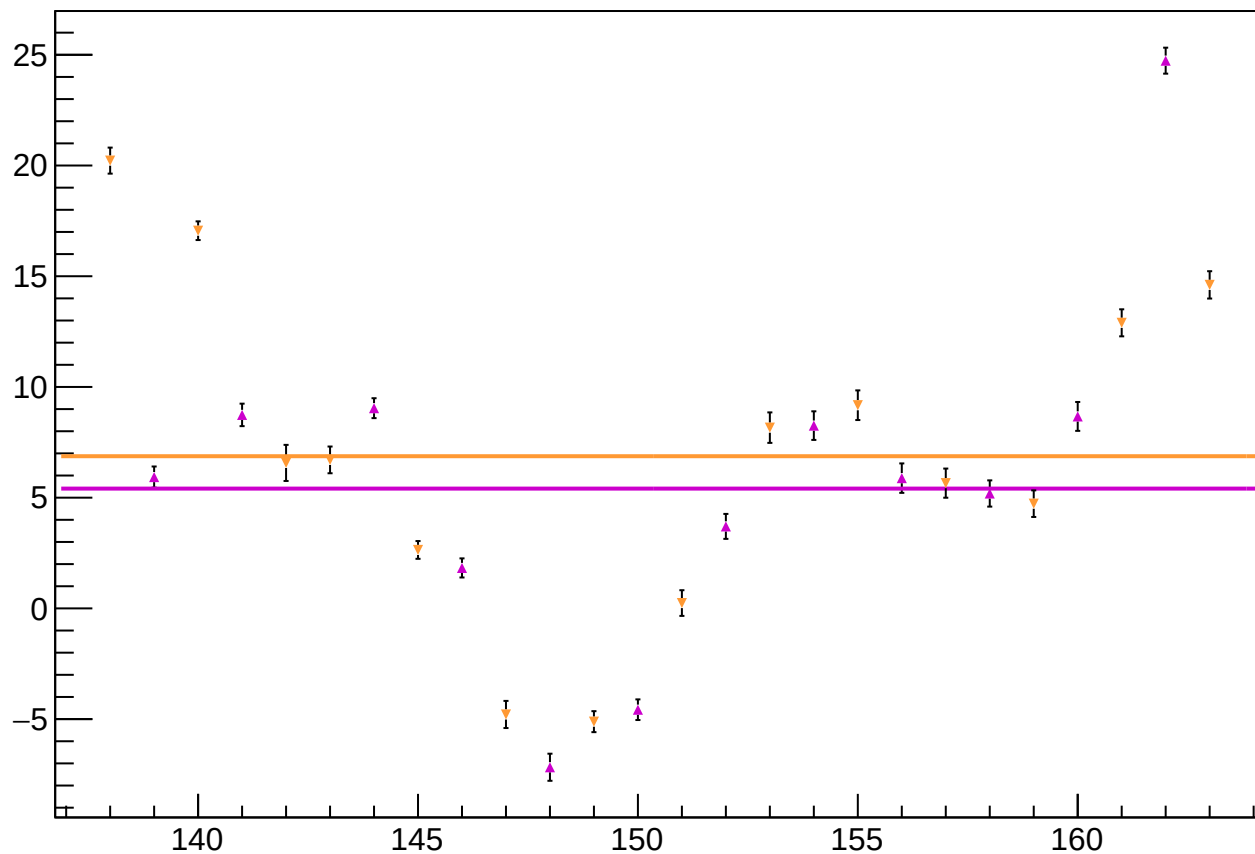
Left In:  $0.277 \pm 0.011$   $\chi^2/\text{NDF}$ : 33.2/11

+ sign  $0.183 \pm 0.010$   $\chi^2/\text{NDF}$ : 788.2/30

All:  $0.179 \pm 0.007$   $\chi^2/\text{NDF}$ : 2058.6/61

- sign  $0.175 \pm 0.010$   $\chi^2/\text{NDF}$ : 1270.1/30

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.872+/-0.151  $\chi^2/\text{NDF}$ : 2629.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

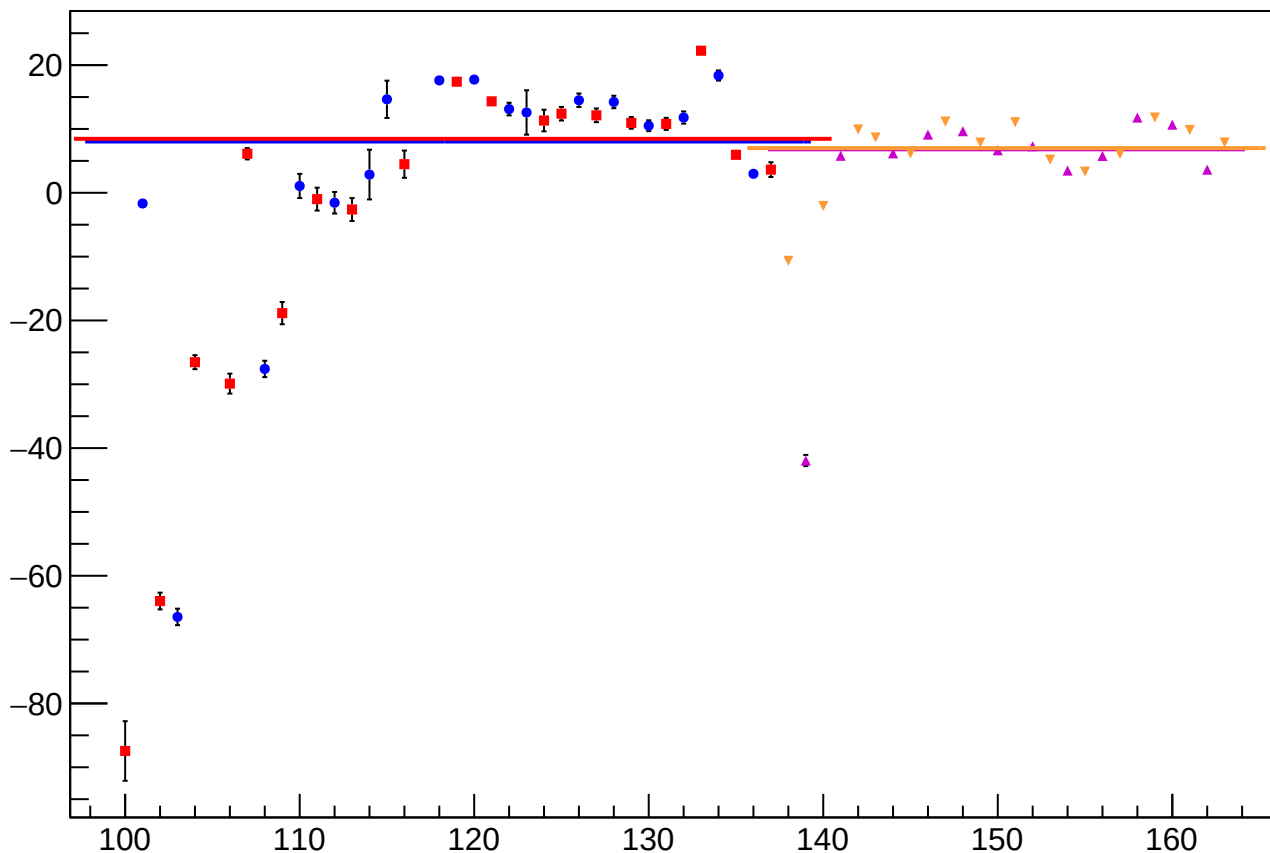
Left In: 5.410+/-0.155  $\chi^2/\text{NDF}$ : 2199.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 6.158+/-0.108  $\chi^2/\text{NDF}$ : 4874.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $8.036 \pm 0.215$   $\chi^2/\text{NDF}: 5369.4/16$

Left Out:  $6.998 \pm 0.106$   $\chi^2/\text{NDF}: 2211.4/13$

Right Out:  $8.454 \pm 0.213$   $\chi^2/\text{NDF}: 6704.4/18$

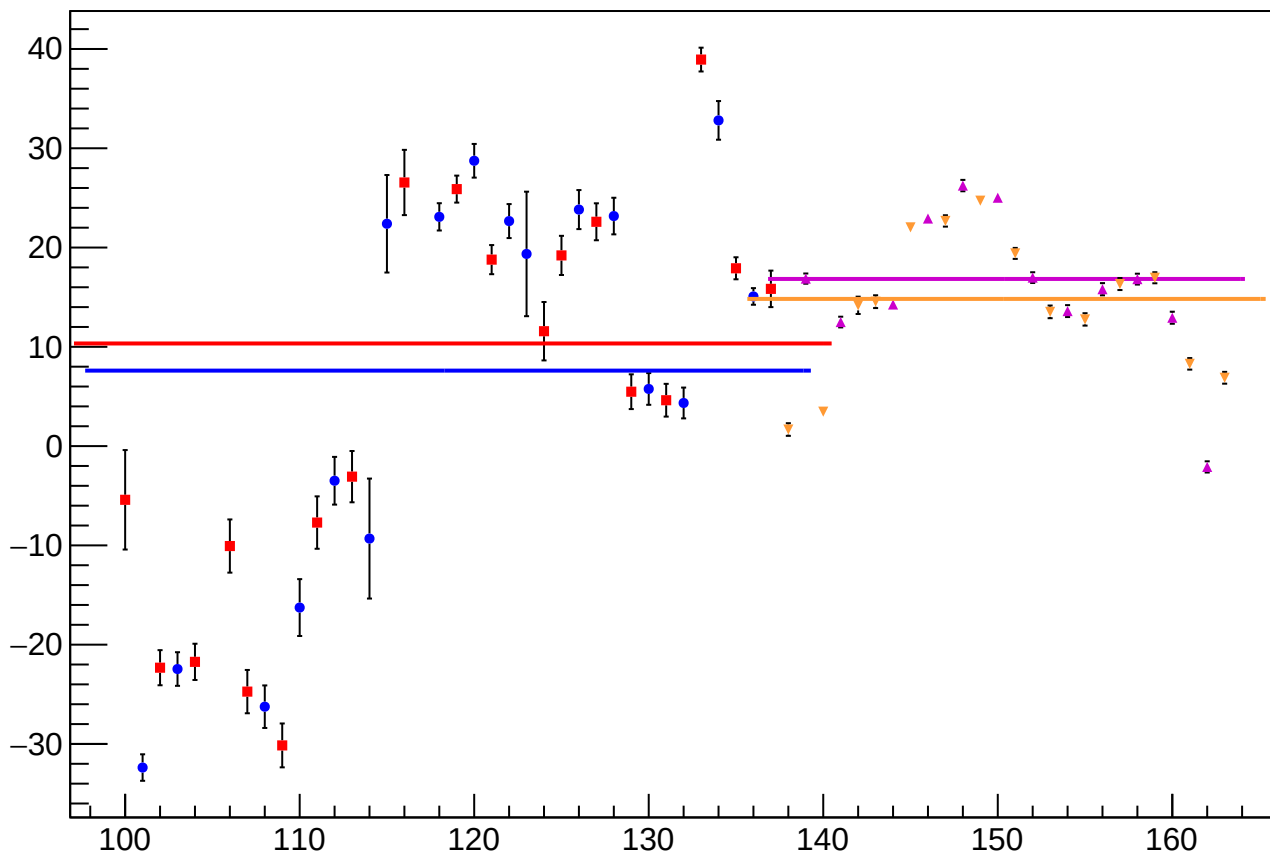
Left In:  $6.806 \pm 0.109$   $\chi^2/\text{NDF}: 3579.8/11$

+ sign  $7.199 \pm 0.095$   $\chi^2/\text{NDF}: 7599.6/30$

All:  $7.174 \pm 0.068$   $\chi^2/\text{NDF}: 17931.2/61$

- sign  $7.148 \pm 0.097$   $\chi^2/\text{NDF}: 10331.5/30$

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 7.604+/-0.416  $\chi^2/\text{NDF}$ : 2325.0/16

Left Out: 14.826+/-0.149  $\chi^2/\text{NDF}$ : 2449.2/13

Right Out: 10.337+/-0.416  $\chi^2/\text{NDF}$ : 2281.8/18

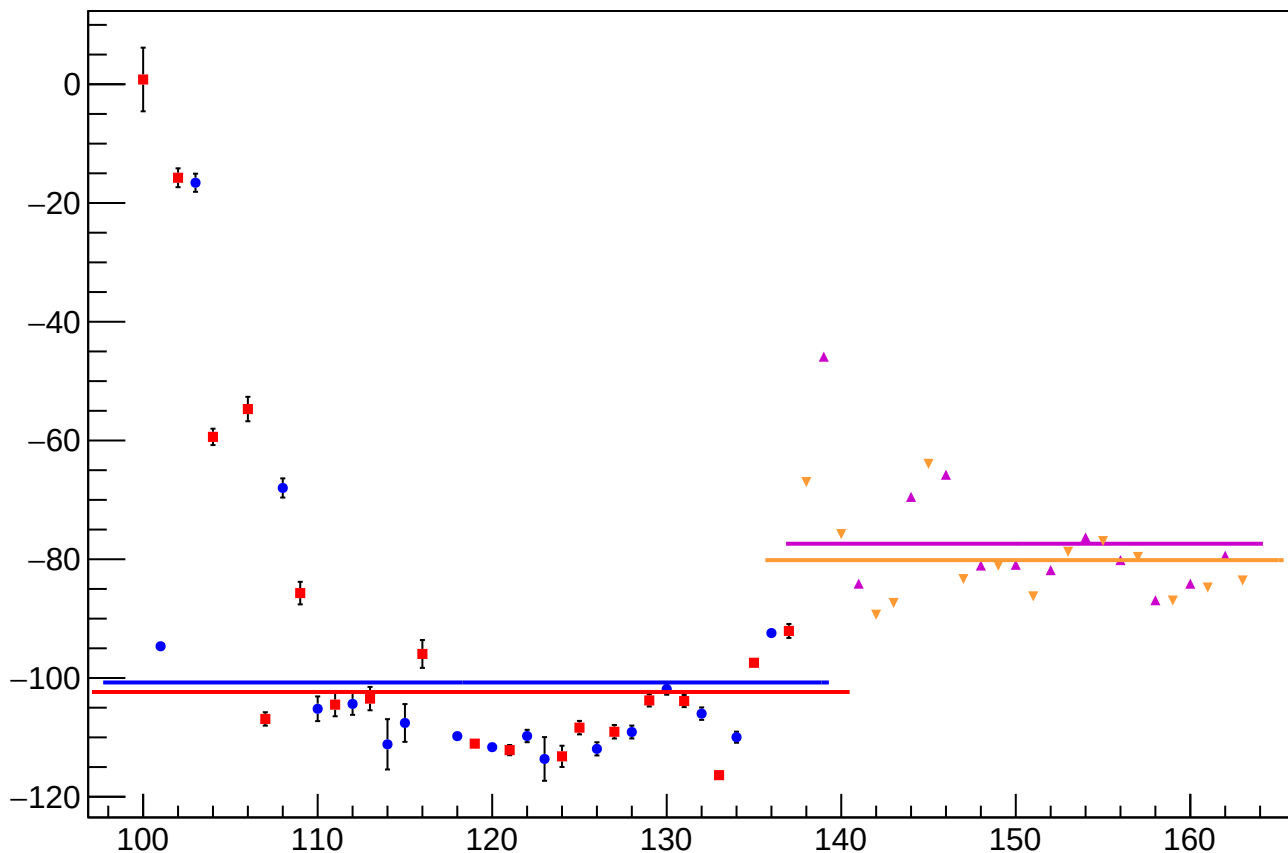
Left In: 16.837+/-0.151  $\chi^2/\text{NDF}$ : 2126.8/11

+ sign 14.001+/-0.141  $\chi^2/\text{NDF}$ : 5041.4/30

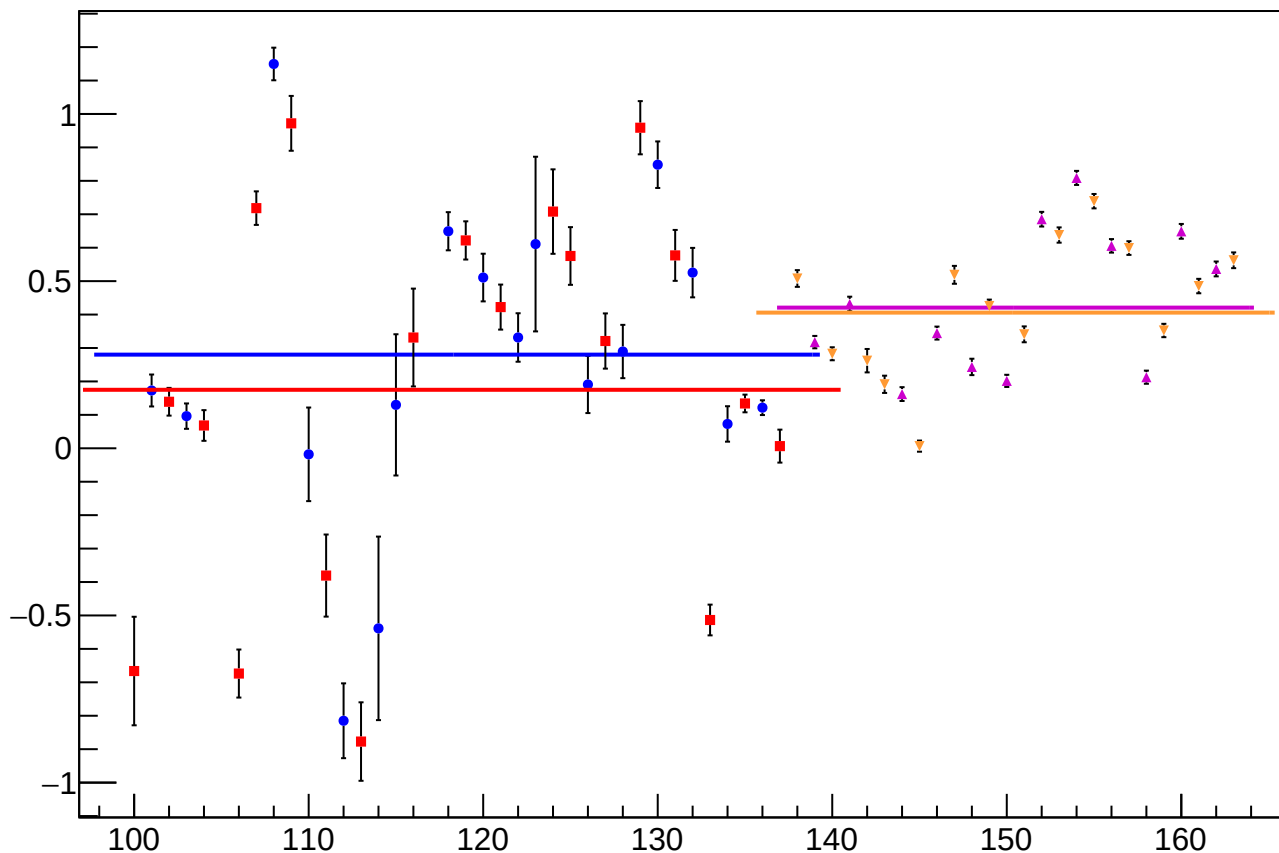
All: 15.028+/-0.100  $\chi^2/\text{NDF}$ : 9773.2/61

- sign 16.079+/-0.142  $\chi^2/\text{NDF}$ : 4623.8/30

# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug



# reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.280 $\pm$ 0.013     $\chi^2/\text{NDF}$ : 656.0/16

Left Out: 0.406 $\pm$ 0.006     $\chi^2/\text{NDF}$ :1239.9/13

Right Out: 0.175 $\pm$ 0.013     $\chi^2/\text{NDF}$ : 966.7/18

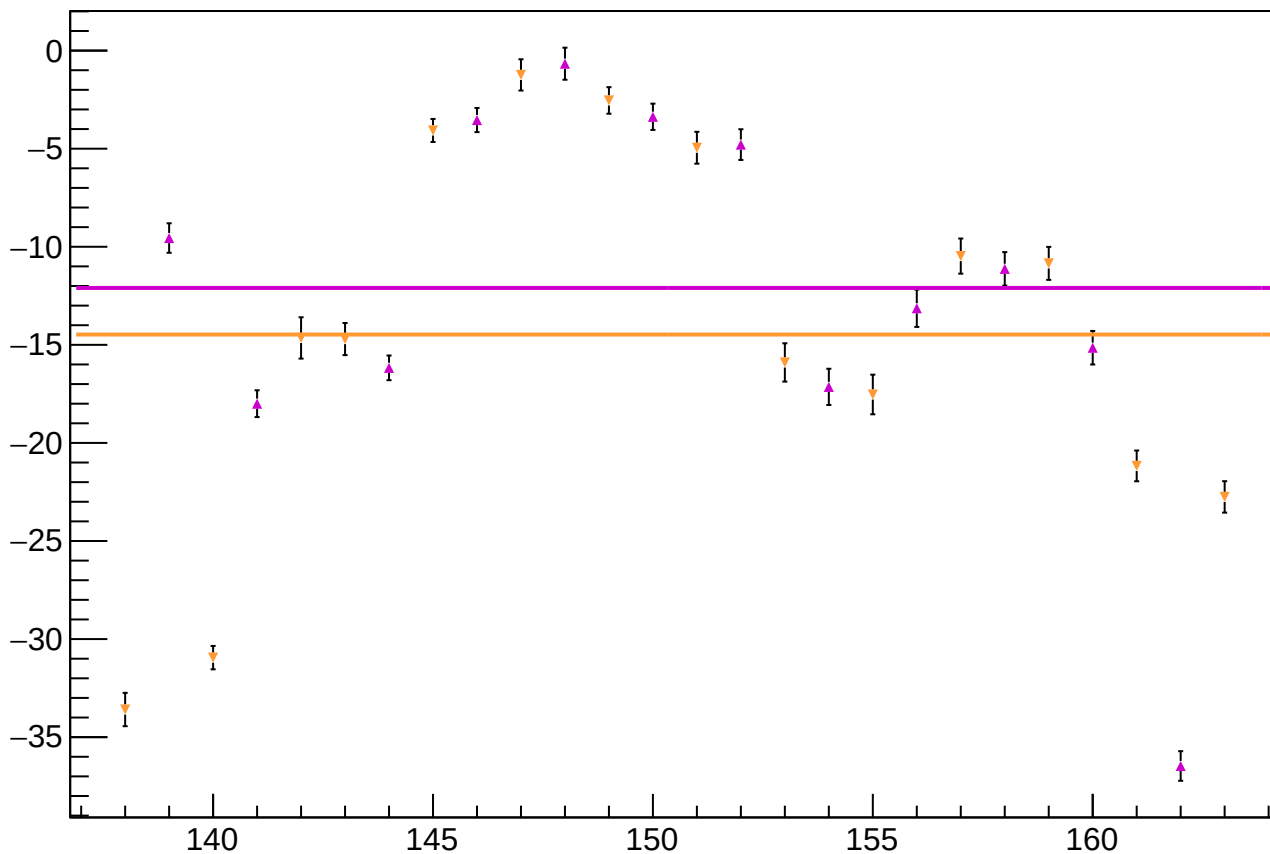
Left In: 0.421 $\pm$ 0.006     $\chi^2/\text{NDF}$ :1213.2/11

+ sign 0.386 $\pm$ 0.005     $\chi^2/\text{NDF}$ : 1969.1/30

All: 0.383 $\pm$ 0.004     $\chi^2/\text{NDF}$ : 4428.8/61

- sign 0.380 $\pm$ 0.005     $\chi^2/\text{NDF}$ : 2459.2/30

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -14.474+/-0.210  $\chi^2/\text{NDF}$ : 2538.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -12.099+/-0.217  $\chi^2/\text{NDF}$ : 1861.1/11

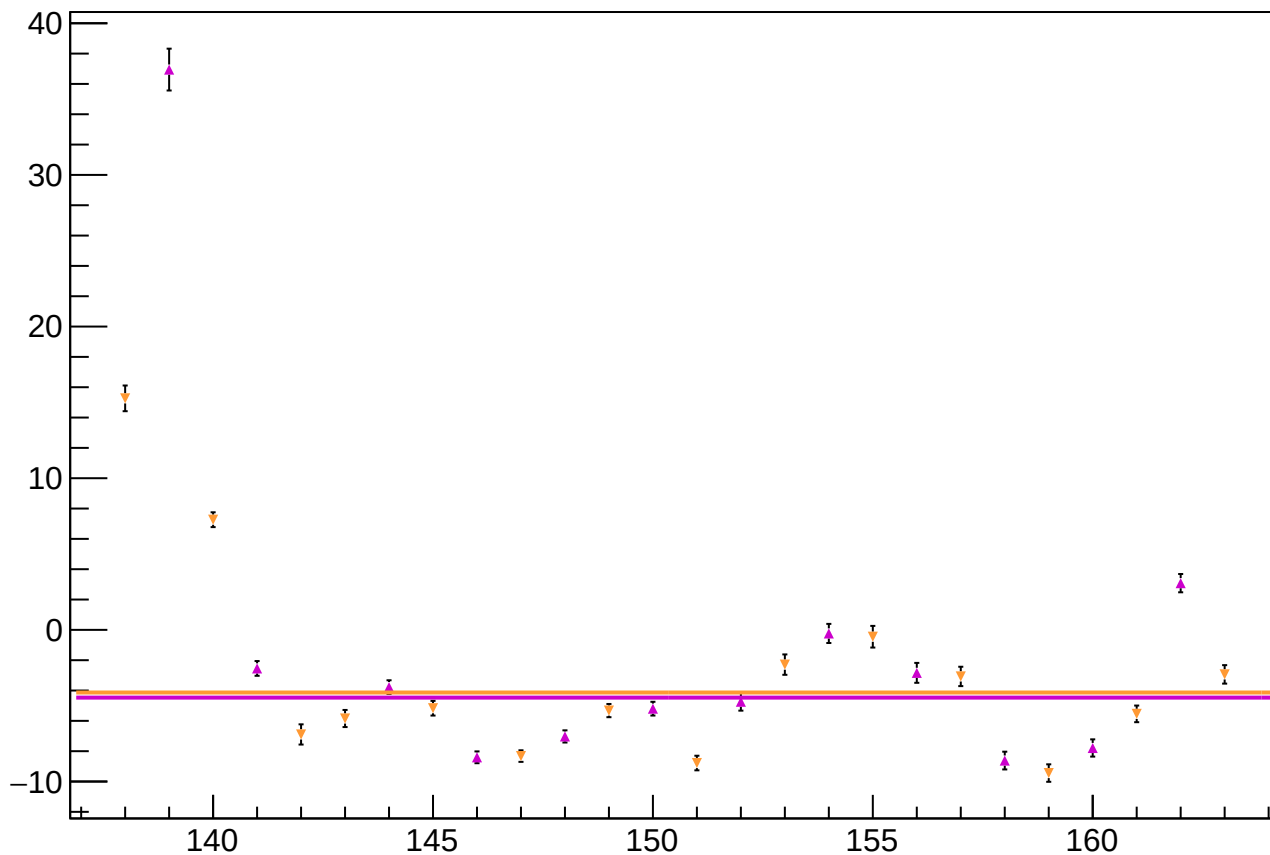
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -13.325+/-0.151  $\chi^2/\text{NDF}$ : 4461.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.130 $\pm$ 0.145  $\chi^2$ /NDF:1452.6/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

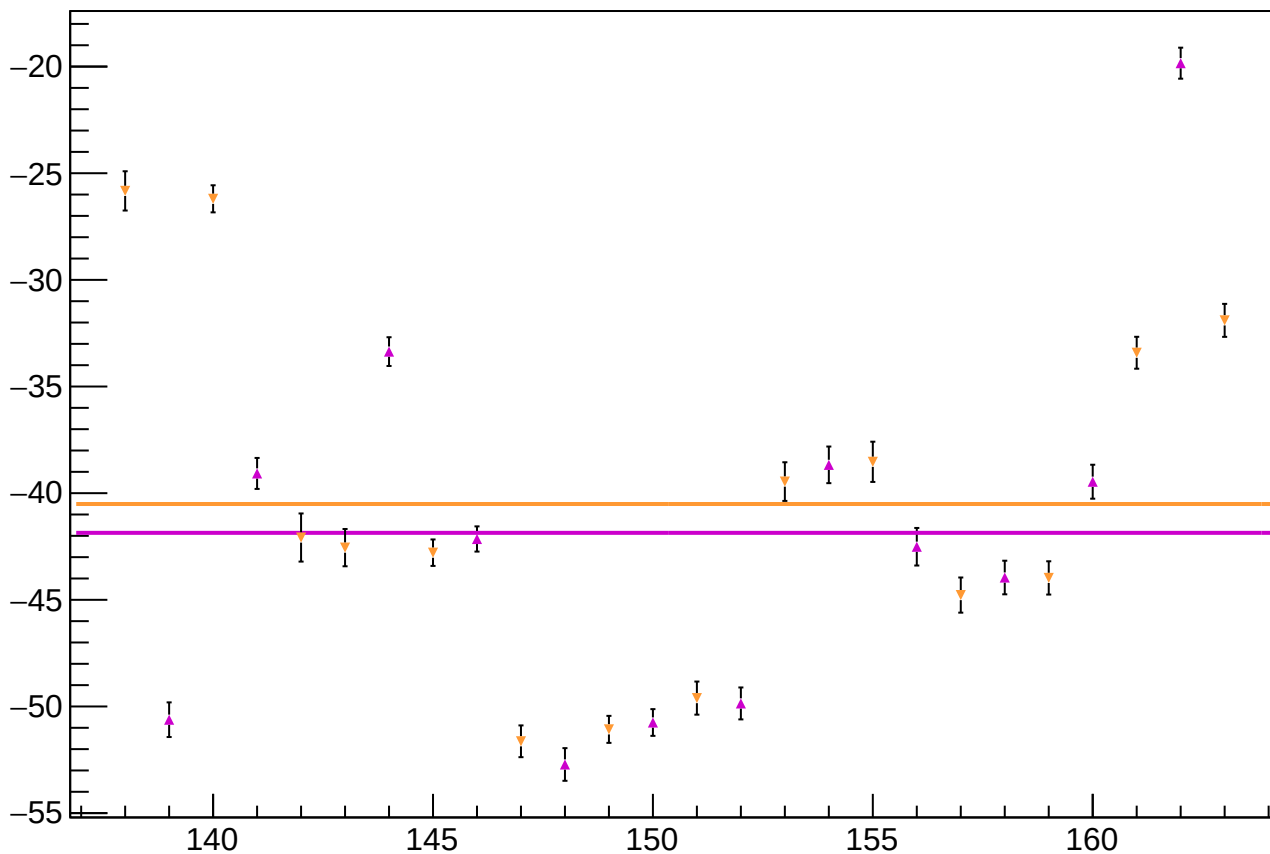
Left In: -4.467 $\pm$ 0.151  $\chi^2$ /NDF:1357.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -4.292 $\pm$ 0.105  $\chi^2$ /NDF: 2812.7/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-40.508 \pm 0.207$   $\chi^2/\text{NDF}$ : 1688.5/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

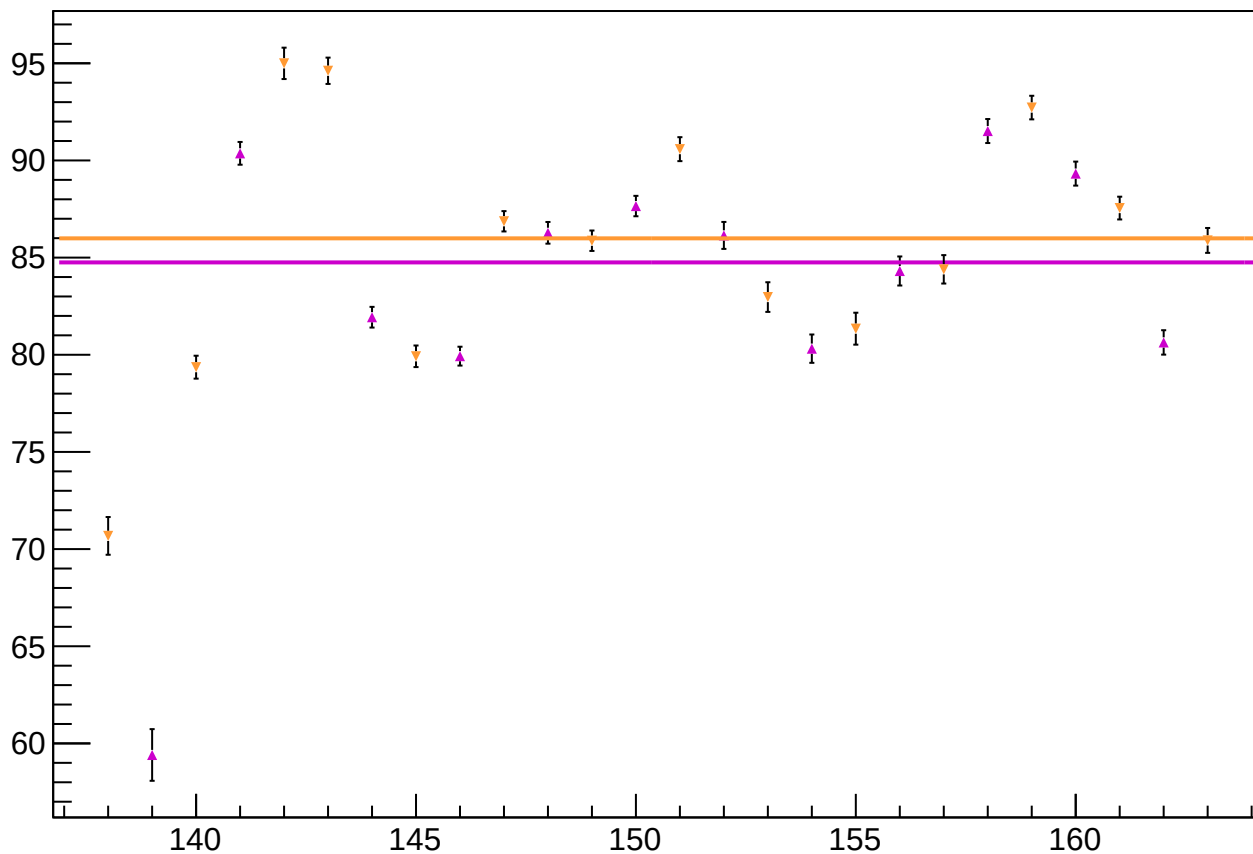
Left In:  $-41.860 \pm 0.212$   $\chi^2/\text{NDF}$ : 1754.5/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-41.169 \pm 0.148$   $\chi^2/\text{NDF}$ : 3463.8/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 85.991+/-0.172  $\chi^2/\text{NDF}$ :1022.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

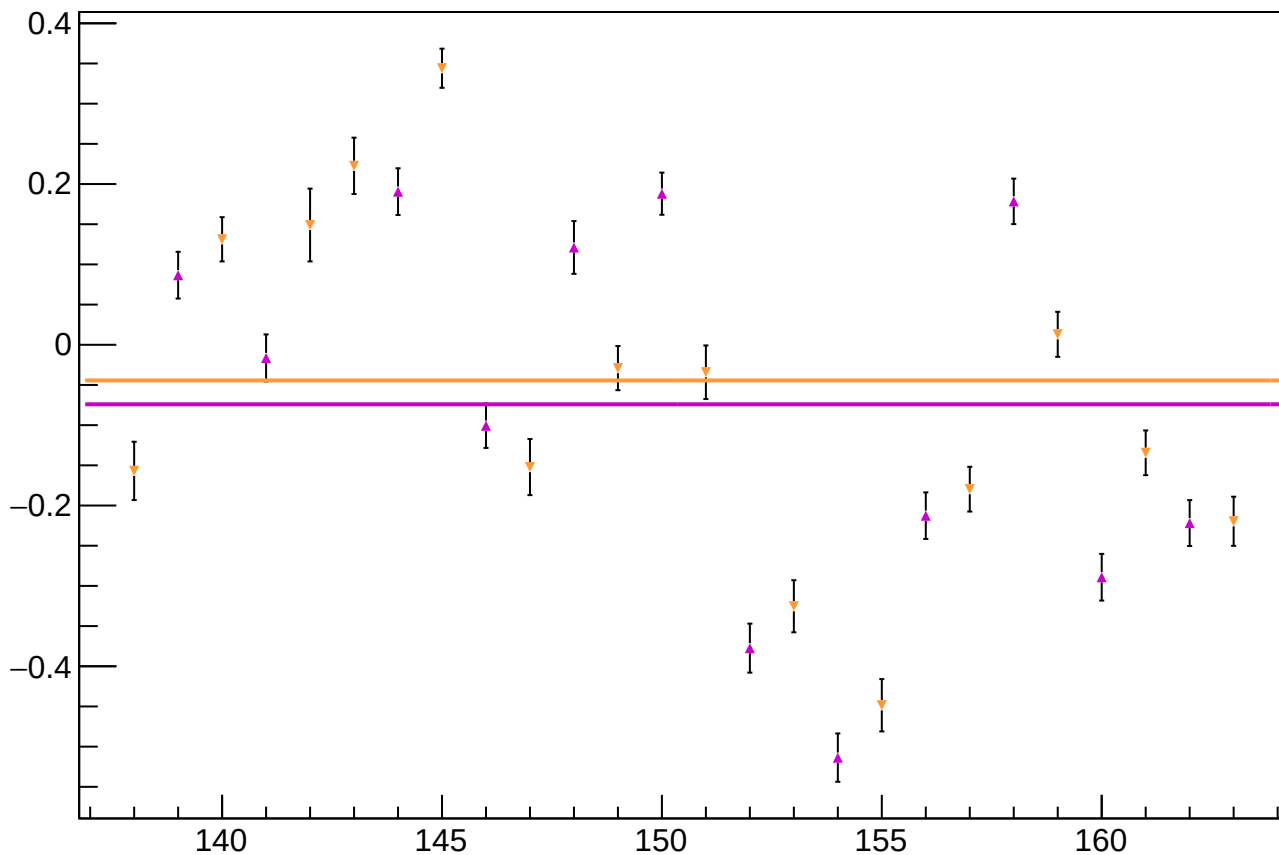
Left In: 84.753+/-0.178  $\chi^2/\text{NDF}$ :879.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 85.394+/-0.123  $\chi^2/\text{NDF}$ : 1926.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.044+/-0.008  $\chi^2/\text{NDF}$ : 691.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

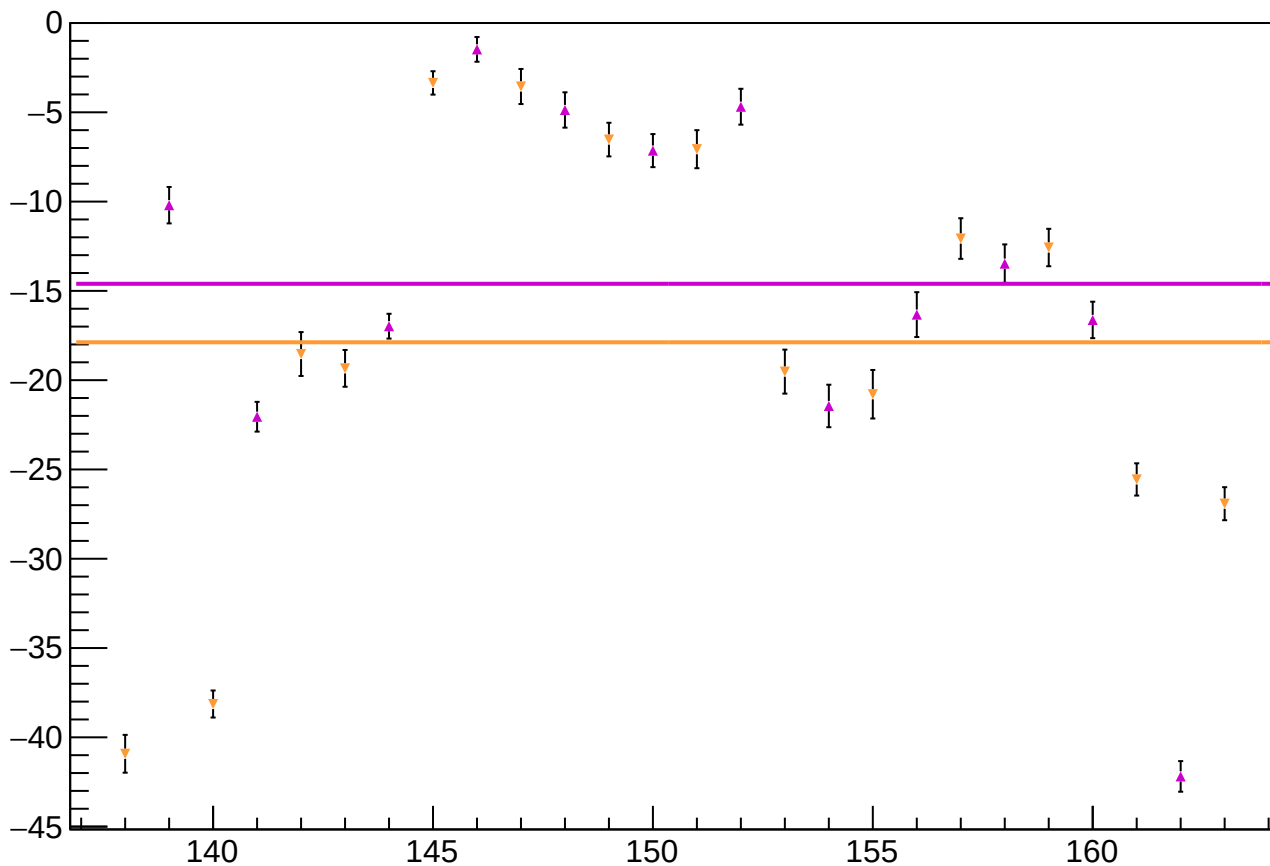
Left In: -0.074+/-0.008  $\chi^2/\text{NDF}$ : 750.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.059+/-0.006  $\chi^2/\text{NDF}$ : 1448.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -17.879+/-0.259  $\chi^2/\text{NDF}$ : 2371.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

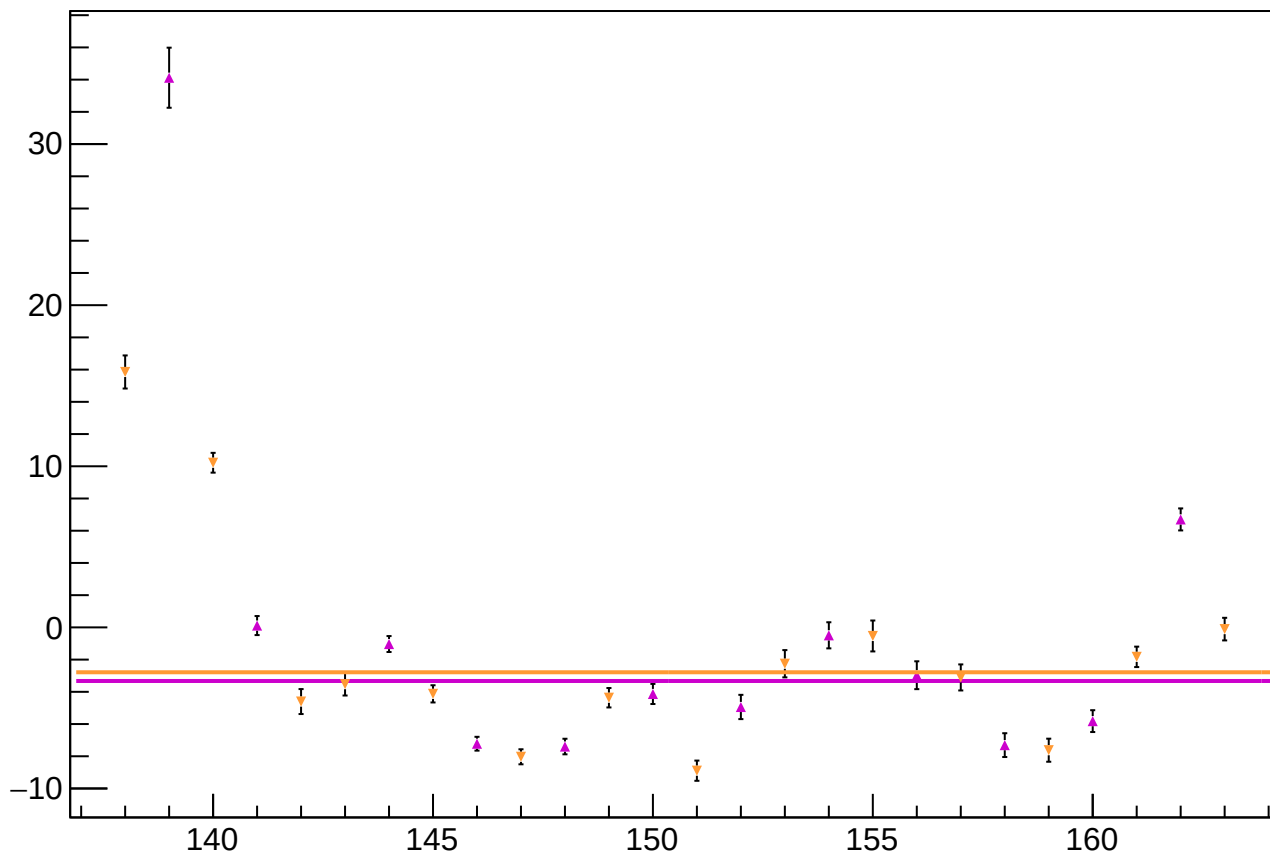
Left In: -14.603+/-0.265  $\chi^2/\text{NDF}$ : 1804.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -16.276+/-0.185  $\chi^2/\text{NDF}$ : 4254.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2.786+/-0.179  $\chi^2/\text{NDF}$ : 1086.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

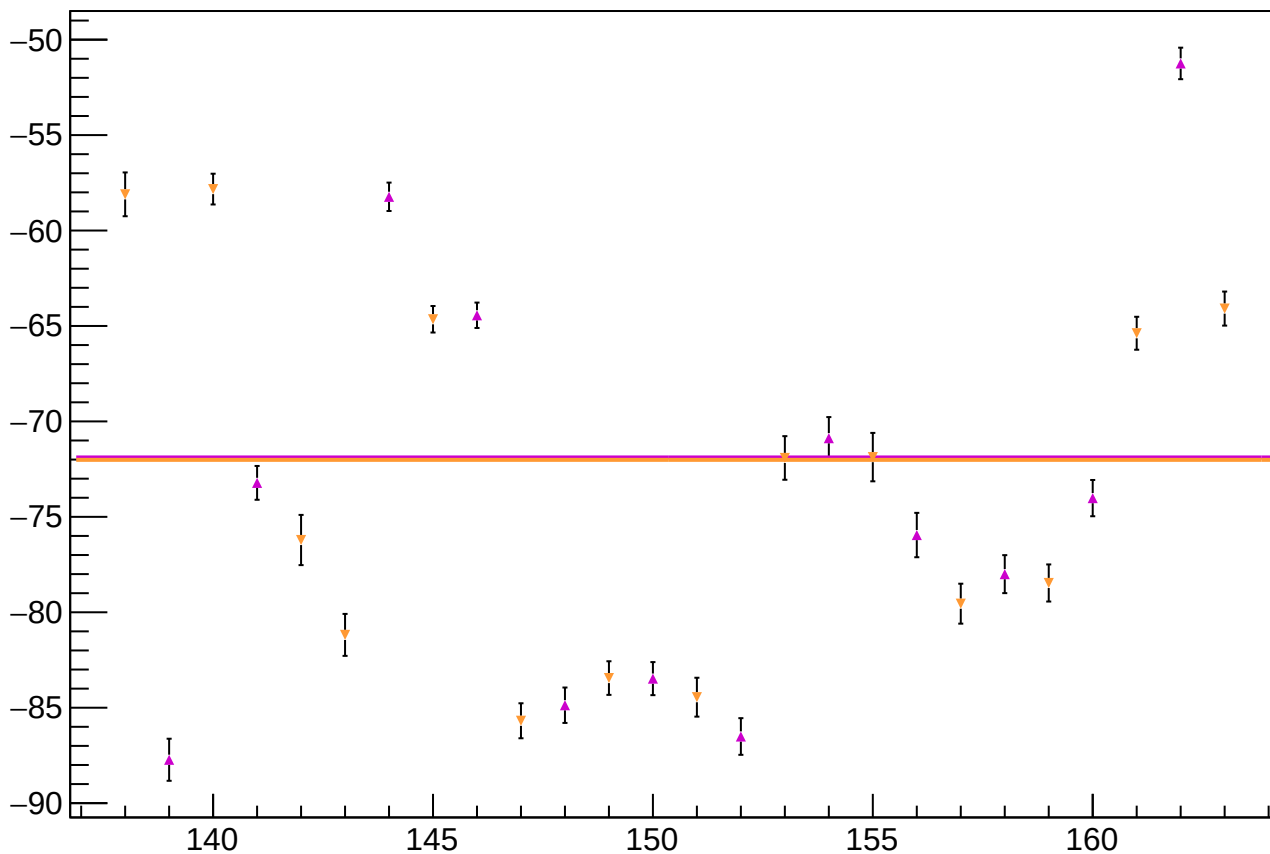
Left In: -3.327+/-0.182  $\chi^2/\text{NDF}$ : 888.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.053+/-0.128  $\chi^2/\text{NDF}$ : 1980.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -72.014+/-0.257  $\chi^2/\text{NDF}$ :1423.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

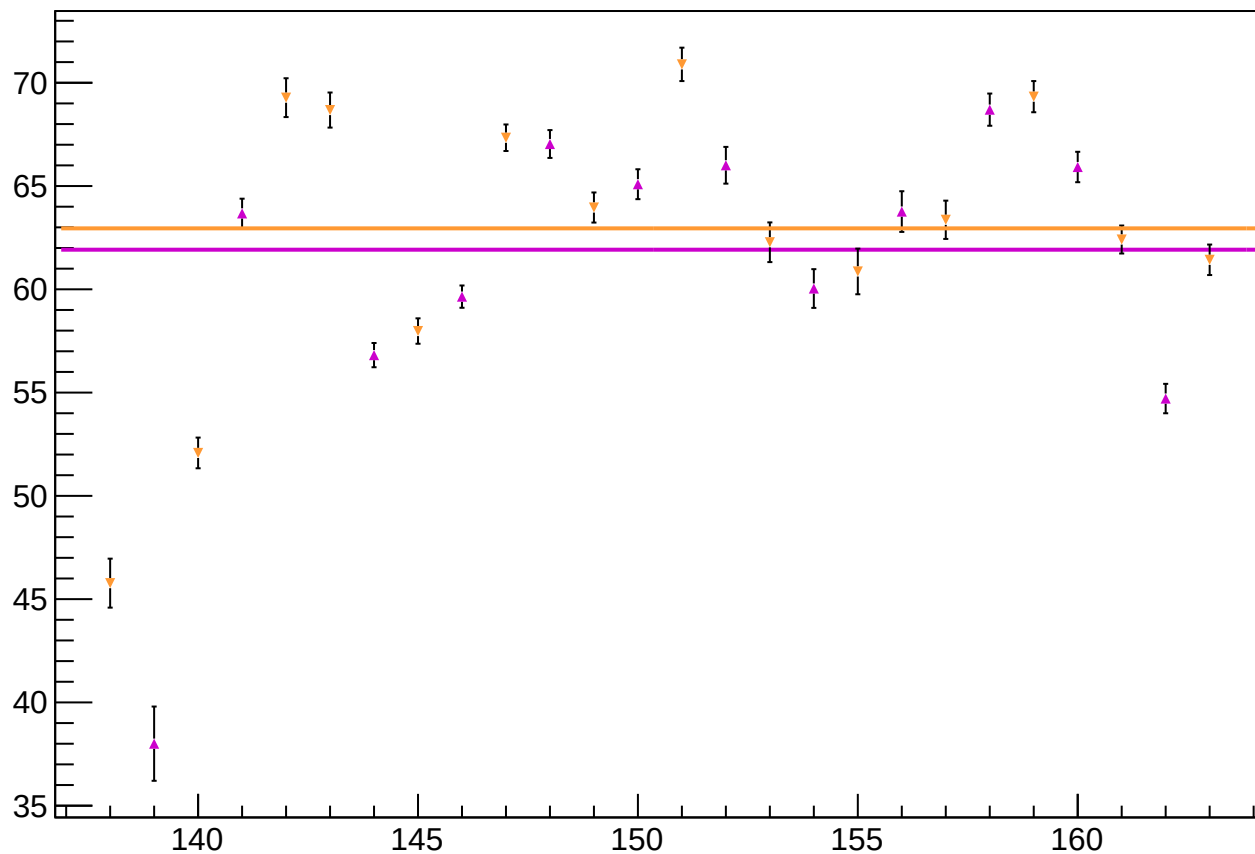
Left In: -71.888+/-0.259  $\chi^2/\text{NDF}$ :1959.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -71.952+/-0.182  $\chi^2/\text{NDF}$ : 3382.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 62.951 $\pm$ 0.211  $\chi^2$ /NDF:805.7/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 61.918 $\pm$ 0.215  $\chi^2$ /NDF:589.7/11

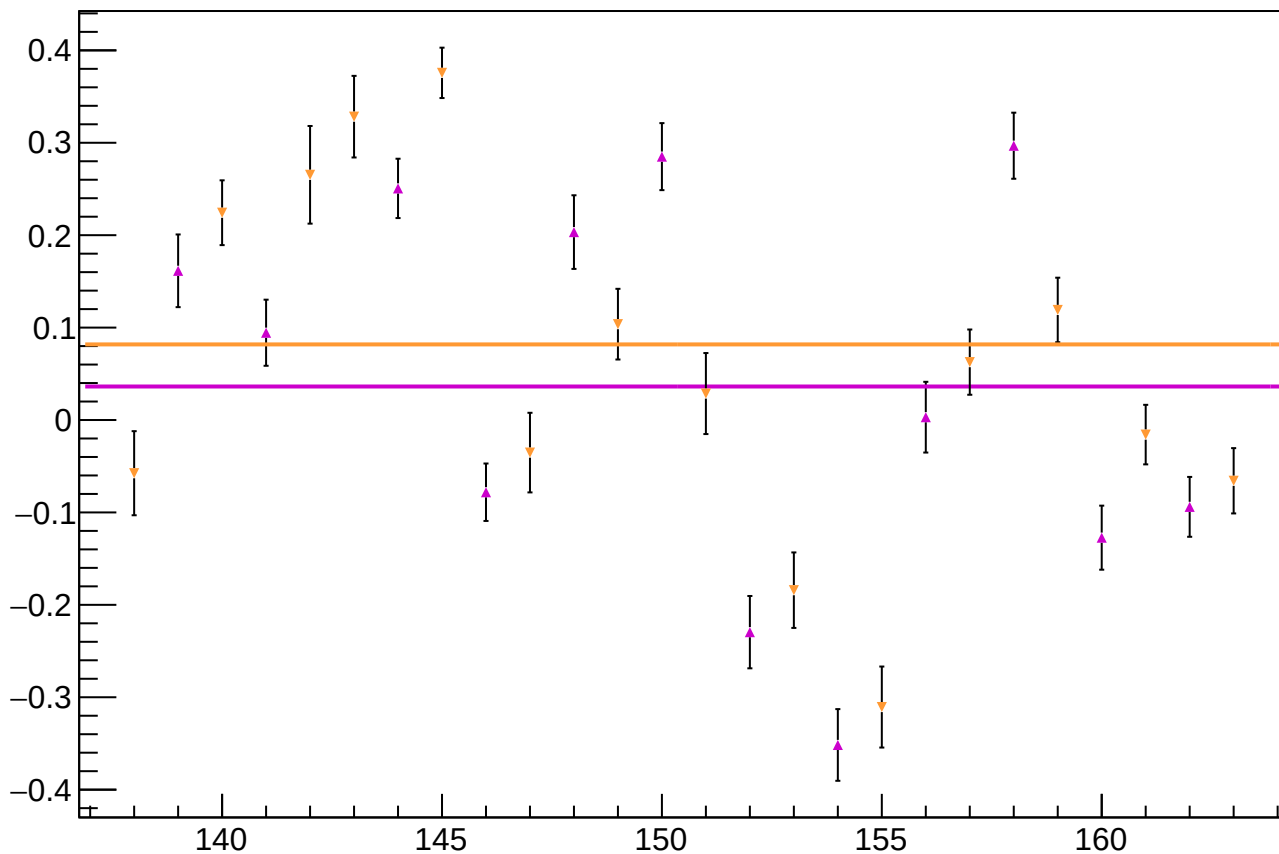
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 62.443 $\pm$ 0.151  $\chi^2$ /NDF: 1407.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.082 $\pm$ 0.010  $\chi^2$ /NDF:345.2/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

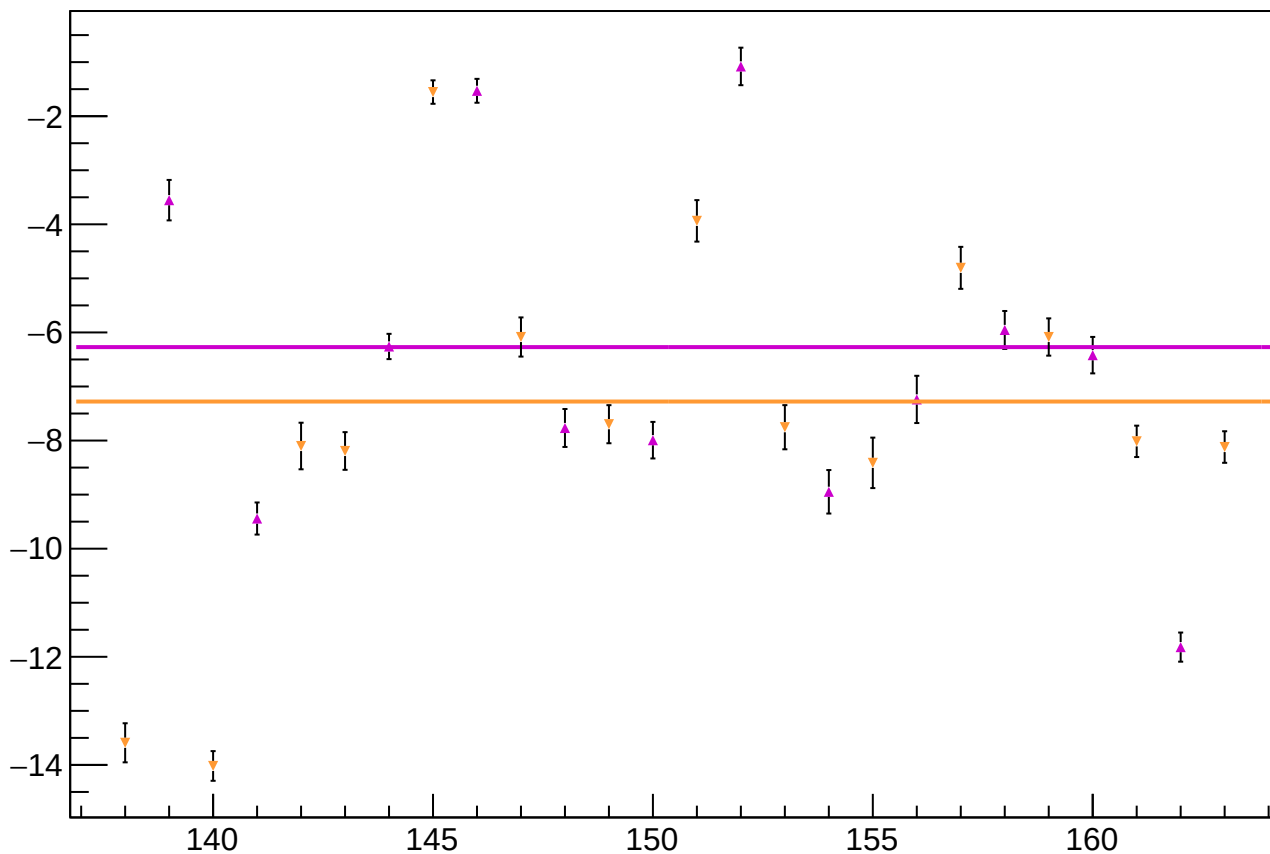
Left In: 0.036 $\pm$ 0.010  $\chi^2$ /NDF:374.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.059 $\pm$ 0.007  $\chi^2$ /NDF: 729.1/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

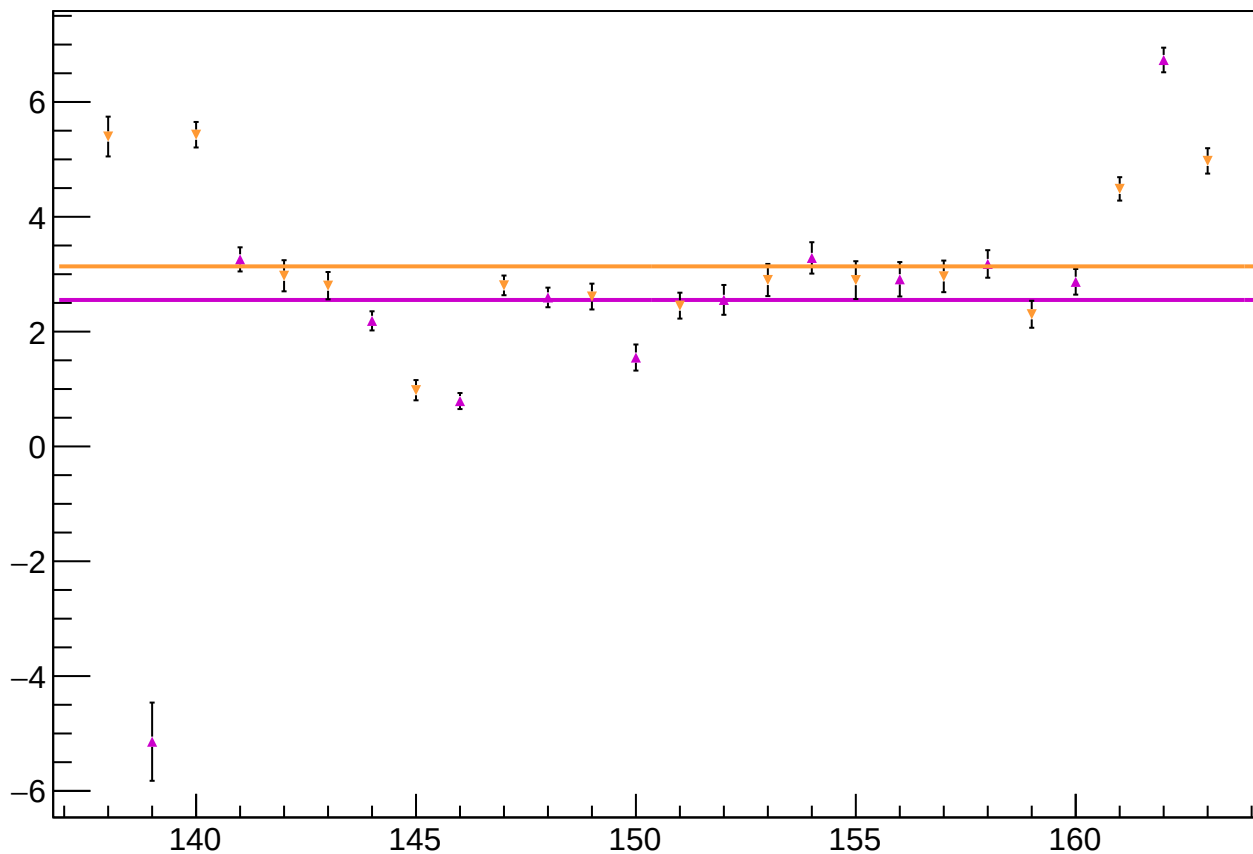
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.278+/-0.089  $\chi^2/\text{NDF}$ : 1776.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -6.271+/-0.090  $\chi^2/\text{NDF}$ : 1369.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -6.781+/-0.063  $\chi^2/\text{NDF}$ : 3209.9/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

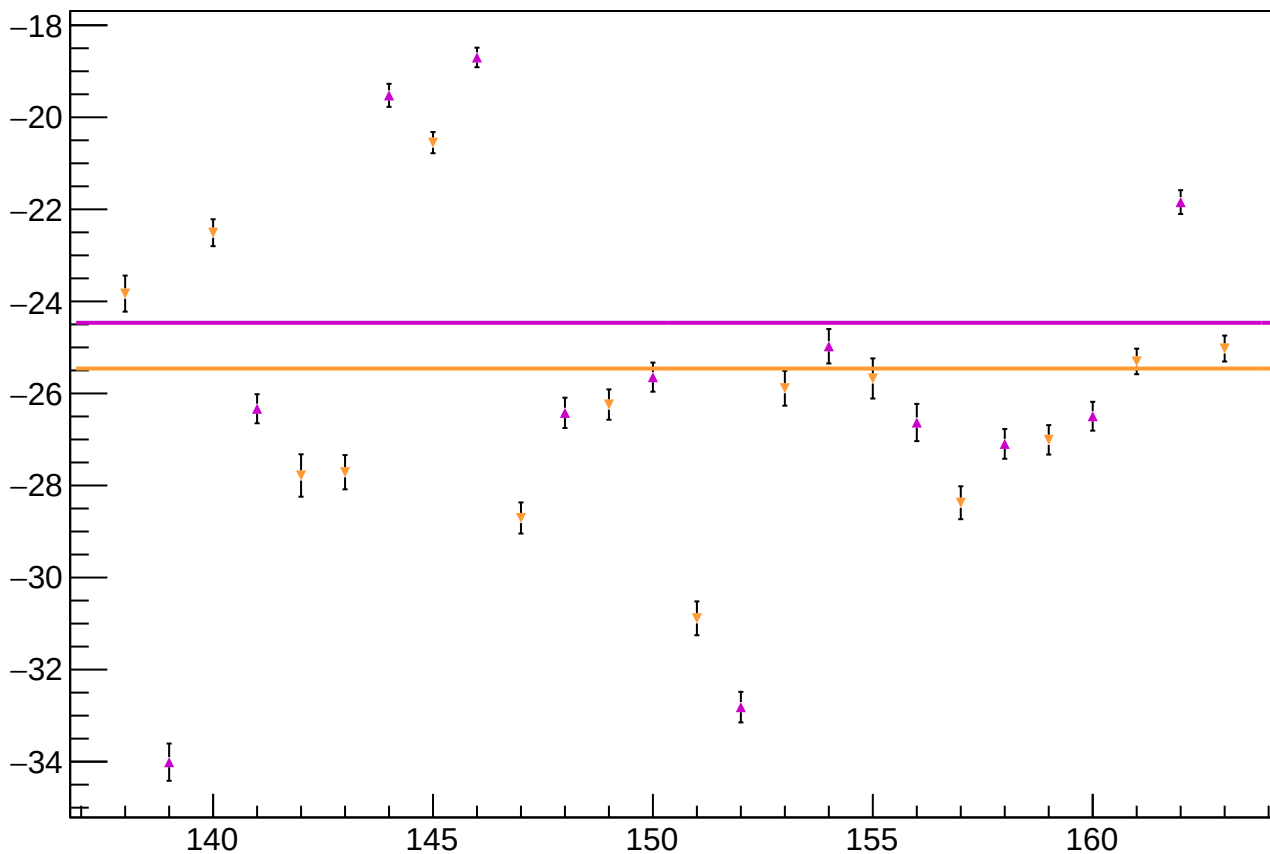
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.136 $\pm$ 0.062  $\chi^2$ /NDF:446.5/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.551 $\pm$ 0.062  $\chi^2$ /NDF:719.6/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 2.843 $\pm$ 0.044  $\chi^2$ /NDF: 1211.2/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.459+/-0.088  $\chi^2/\text{NDF}$ :1045.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

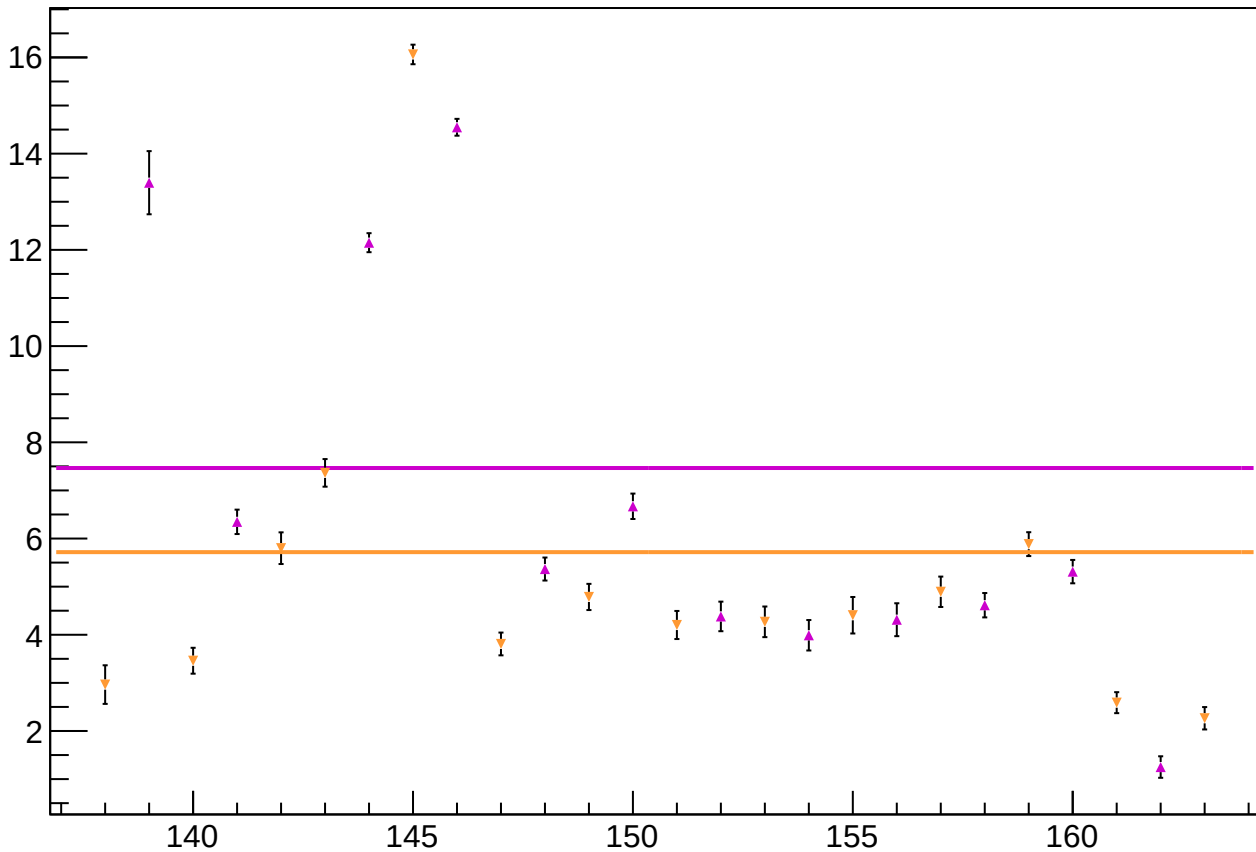
Left In: -24.465+/-0.088  $\chi^2/\text{NDF}$ :2639.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -24.961+/-0.062  $\chi^2/\text{NDF}$ : 3748.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

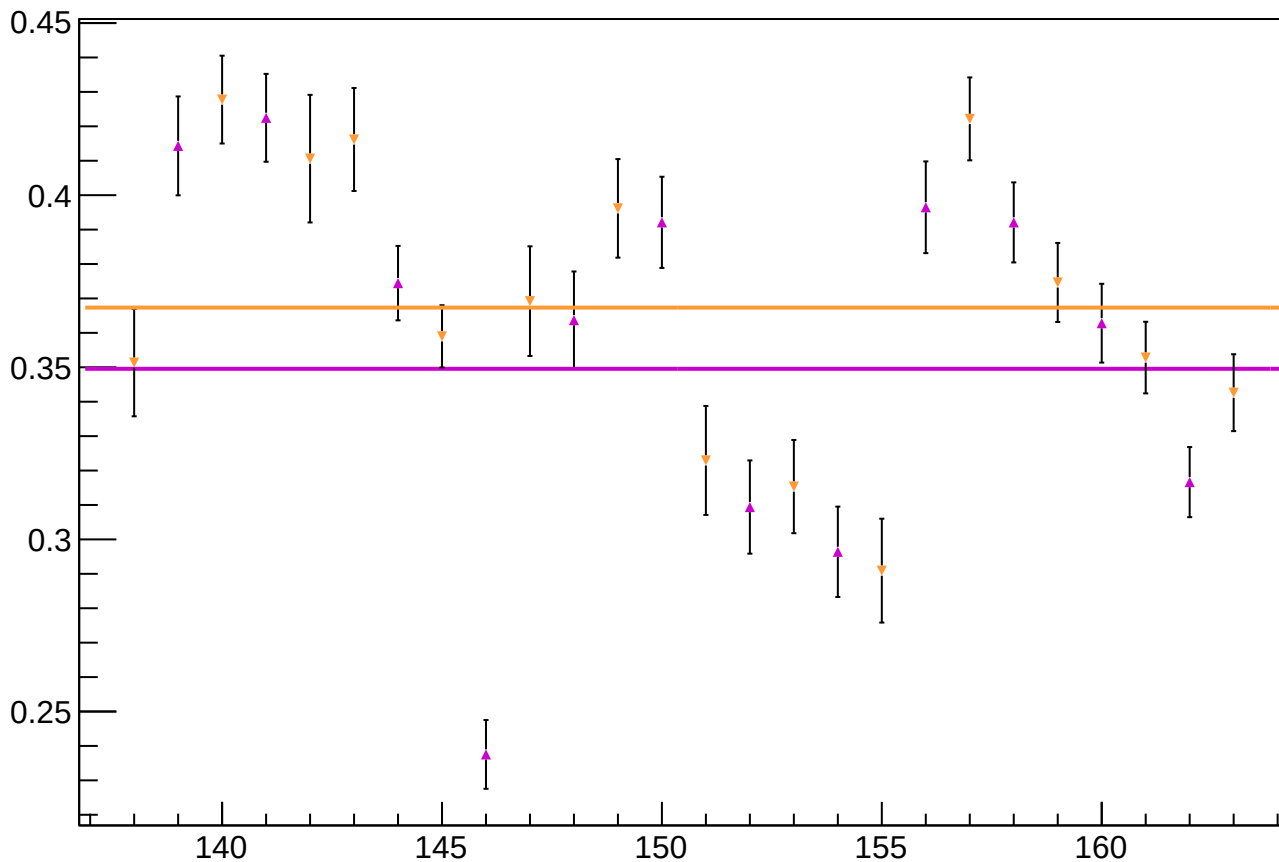
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.717+/-0.072  $\chi^2/\text{NDF}$ :3311.4/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.466+/-0.073  $\chi^2/\text{NDF}$ :3673.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 6.588+/-0.051  $\chi^2/\text{NDF}$ : 7275.9/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

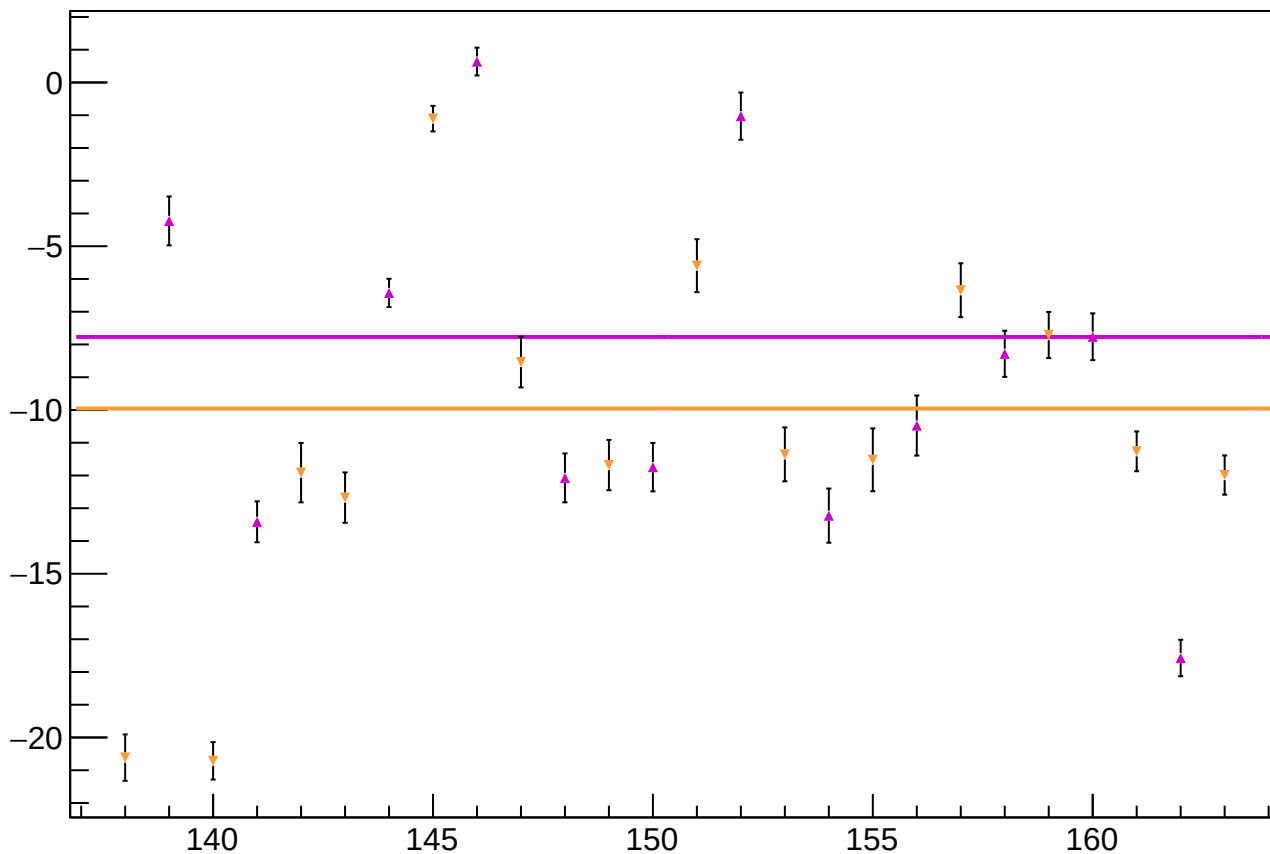
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.367 $\pm$ 0.003  $\chi^2$ /NDF:120.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.350 $\pm$ 0.003  $\chi^2$ /NDF:258.2/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.359 $\pm$ 0.002  $\chi^2$ /NDF: 392.0/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

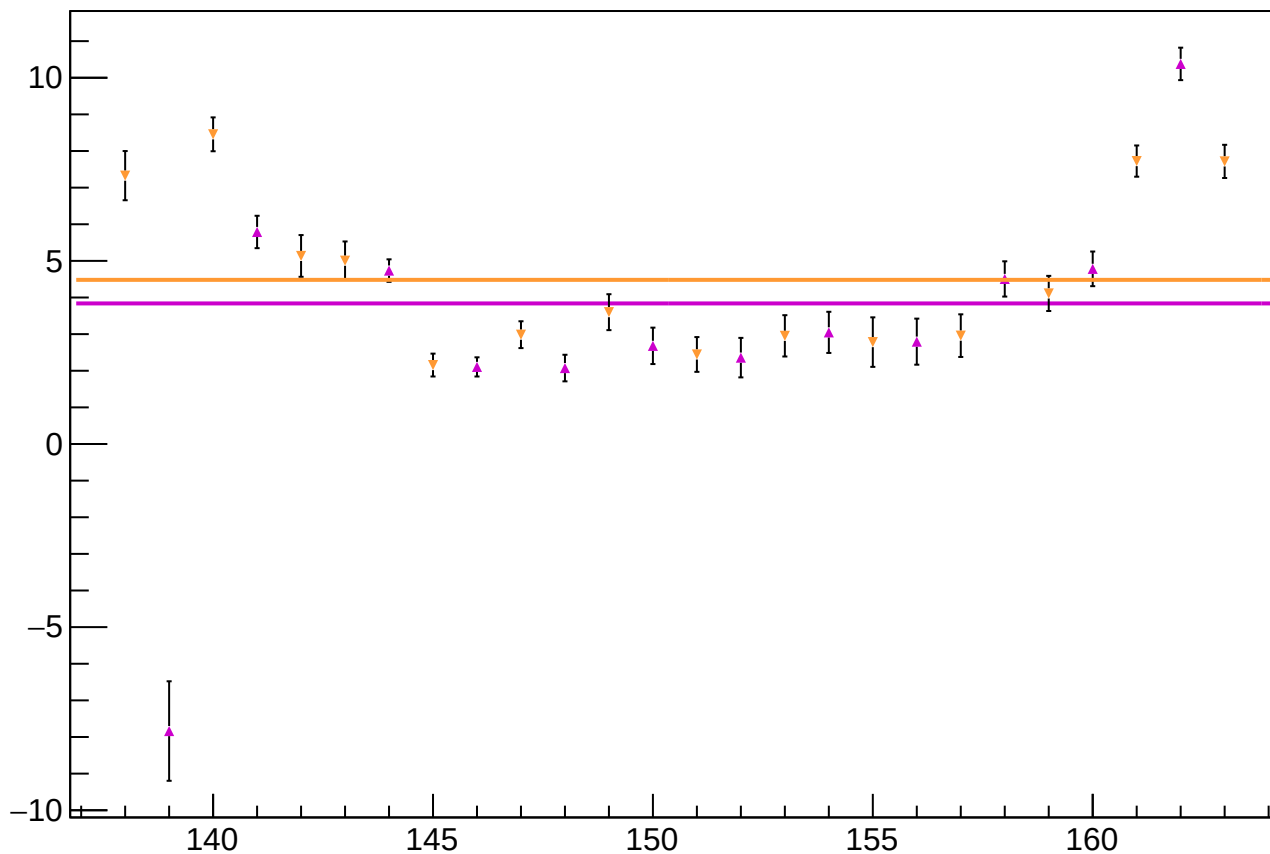
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -9.954 $\pm$ 0.180  $\chi^2$ /NDF:1201.3/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -7.769 $\pm$ 0.181  $\chi^2$ /NDF:1019.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -8.867 $\pm$ 0.127  $\chi^2$ /NDF: 2293.9/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug

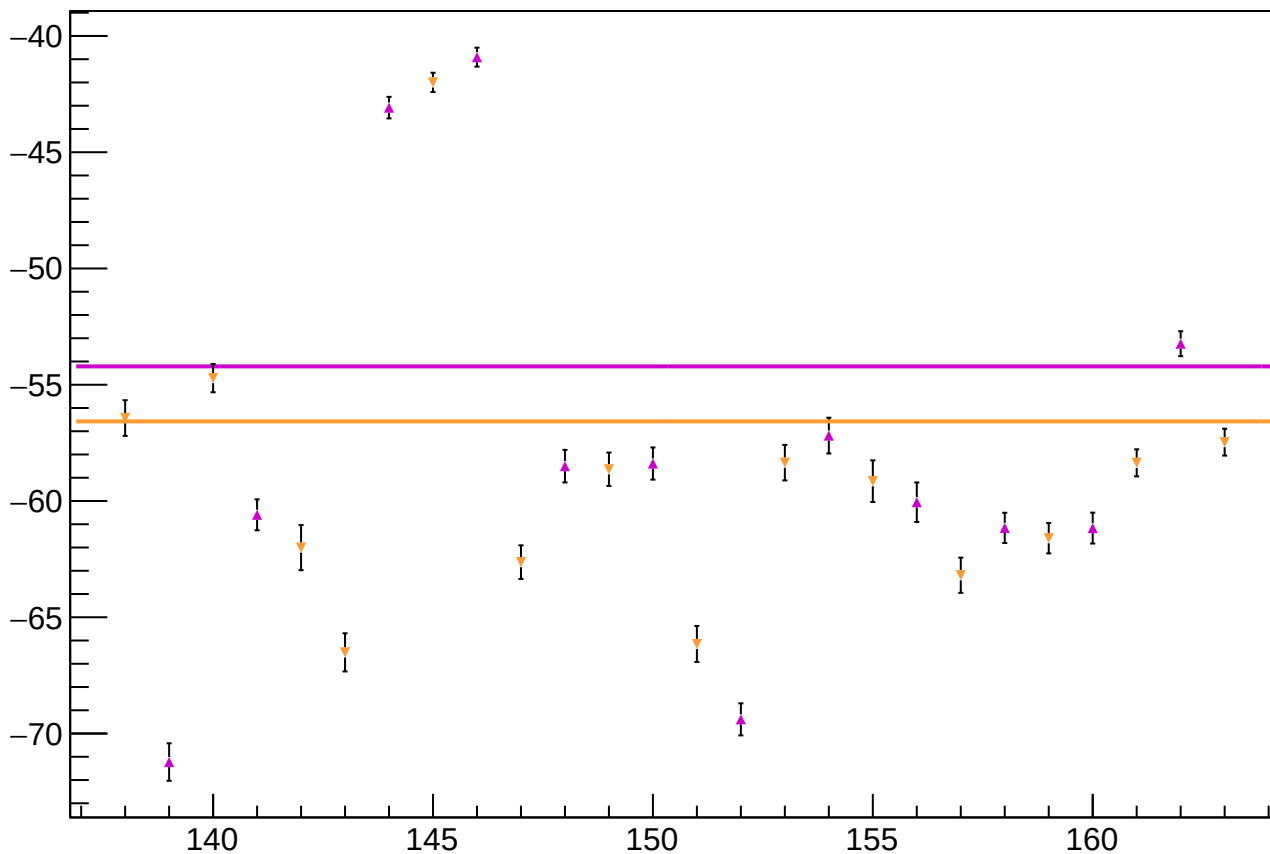


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.482 $\pm$ 0.126  $\chi^2$ /NDF:317.9/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.838 $\pm$ 0.124  $\chi^2$ /NDF:410.7/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 4.154 $\pm$ 0.088  $\chi^2$ /NDF: 742.0/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -56.576+/-0.179  $\chi^2/\text{NDF}$ :1807.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

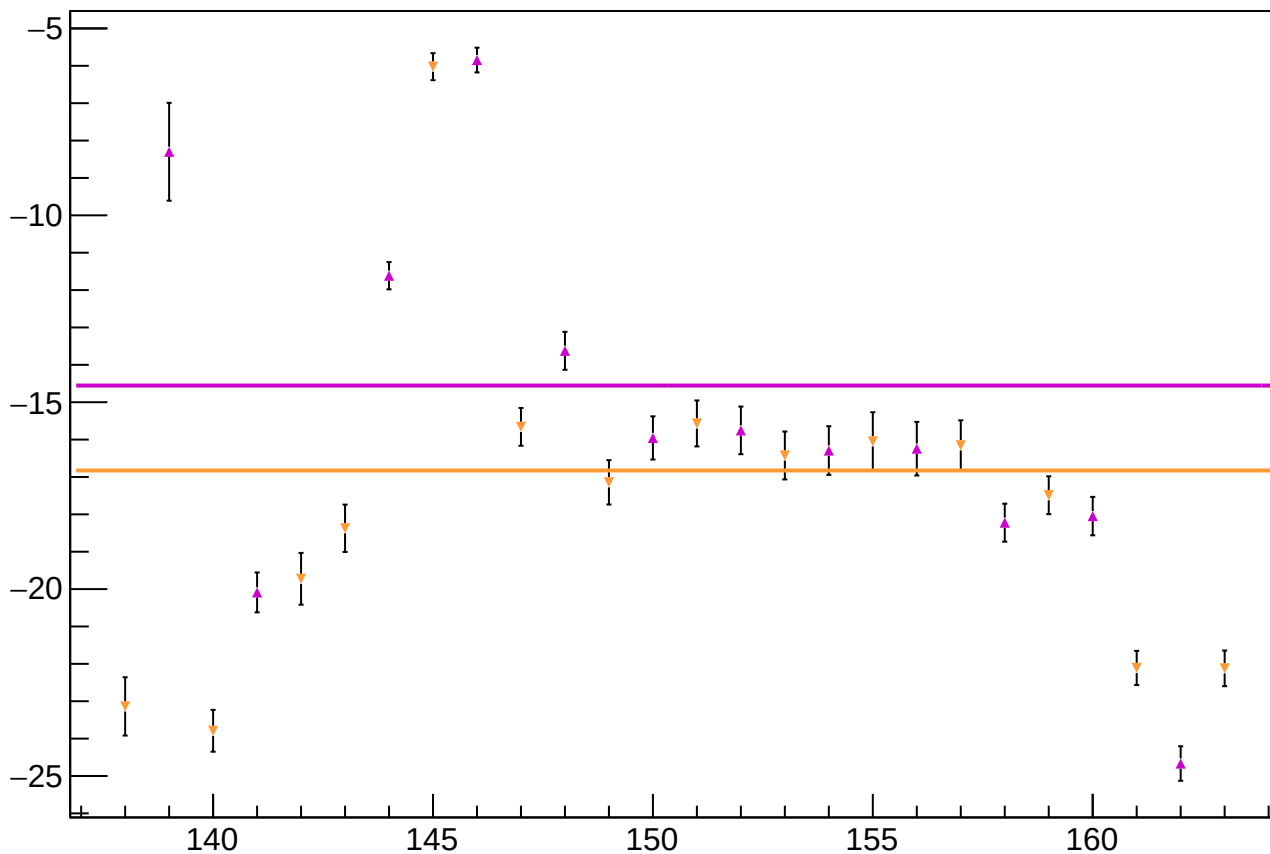
Left In: -54.210+/-0.177  $\chi^2/\text{NDF}$ :3028.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -55.381+/-0.126  $\chi^2/\text{NDF}$ : 4924.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -16.826 $\pm$ 0.148  $\chi^2$ /NDF:1411.2/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

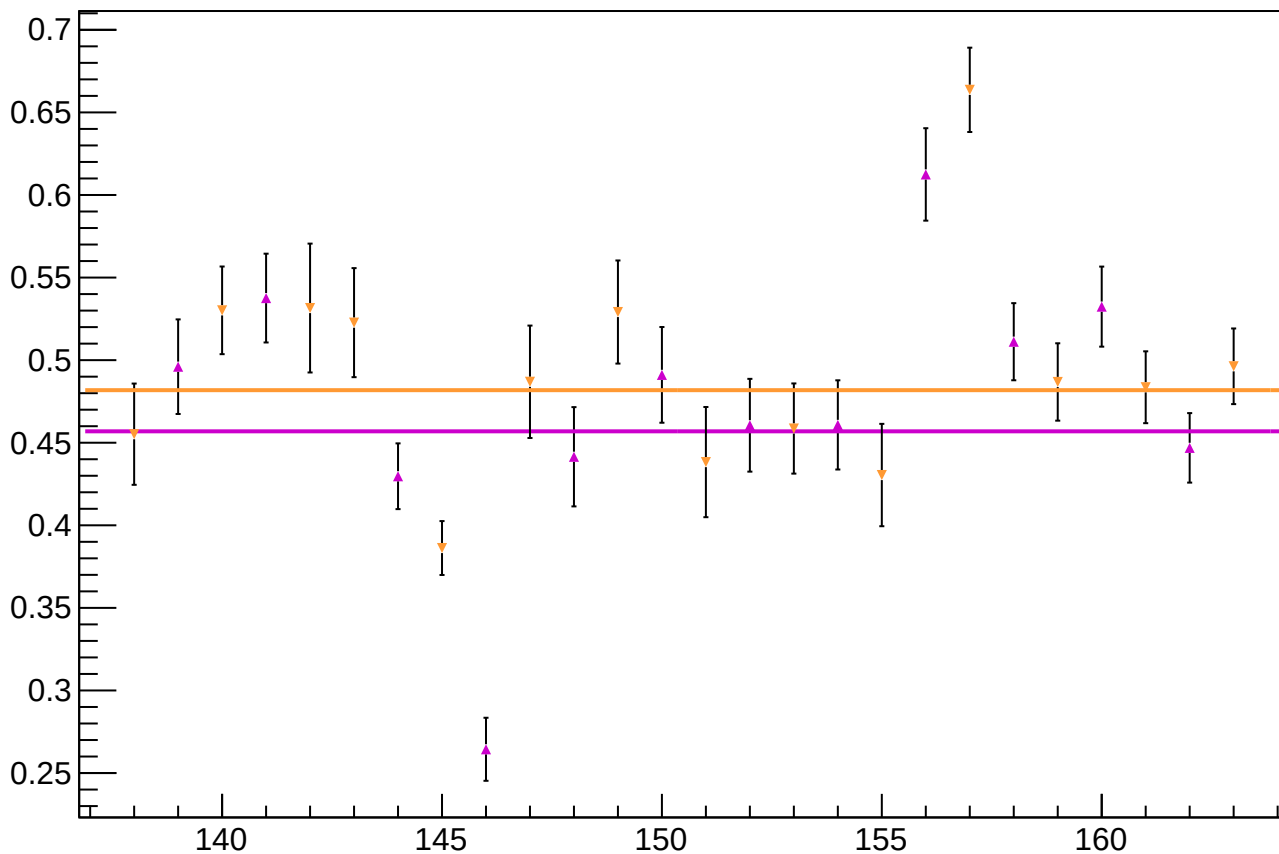
Left In: -14.555 $\pm$ 0.146  $\chi^2$ /NDF:1489.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -15.681 $\pm$ 0.104  $\chi^2$ /NDF: 3020.6/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

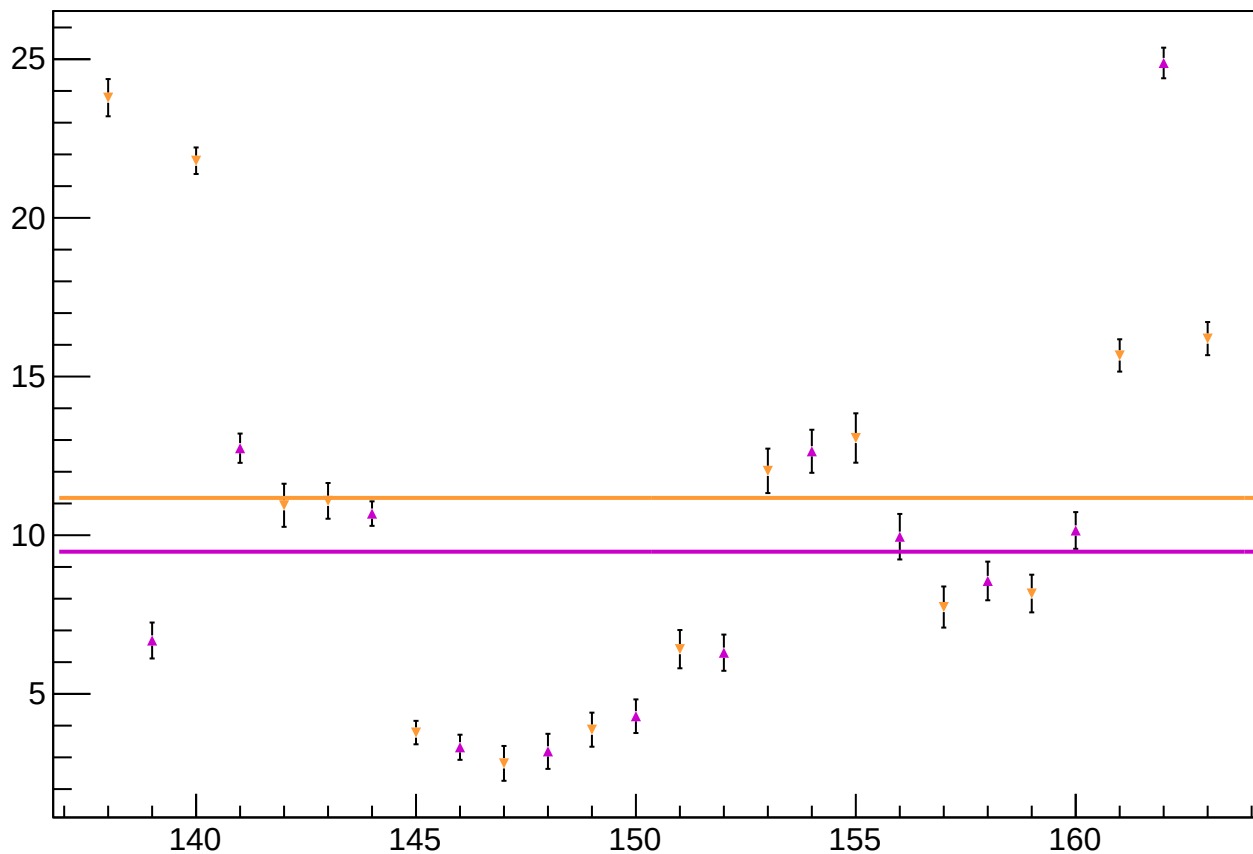
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.482+/-0.007  $\chi^2/\text{NDF}$ :100.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.457+/-0.007  $\chi^2/\text{NDF}$ :162.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.470+/-0.005  $\chi^2/\text{NDF}$ : 268.9/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 11.176 $\pm$ 0.145  $\chi^2$ /NDF:2219.3/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

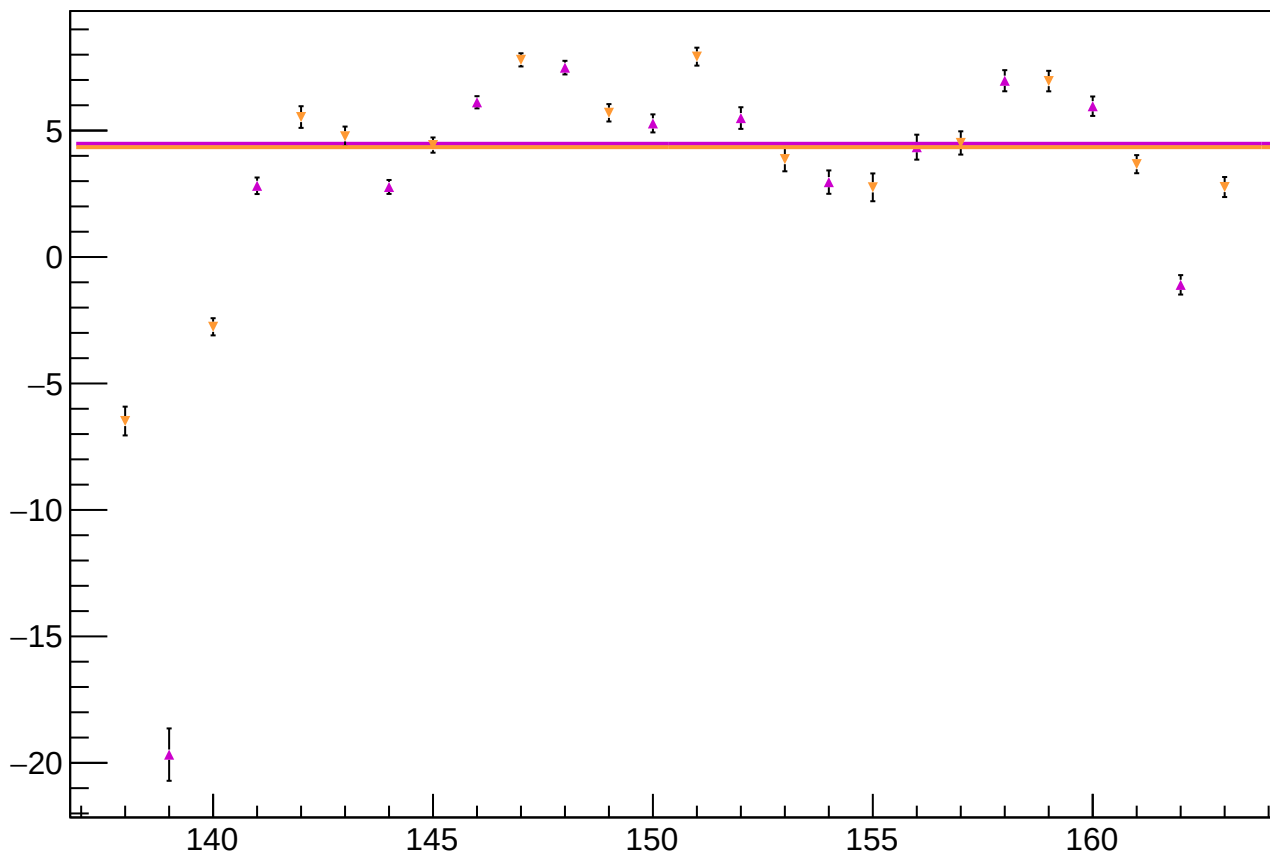
Left In: 9.481 $\pm$ 0.149  $\chi^2$ /NDF:1628.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 10.350 $\pm$ 0.104  $\chi^2$ /NDF: 3914.4/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

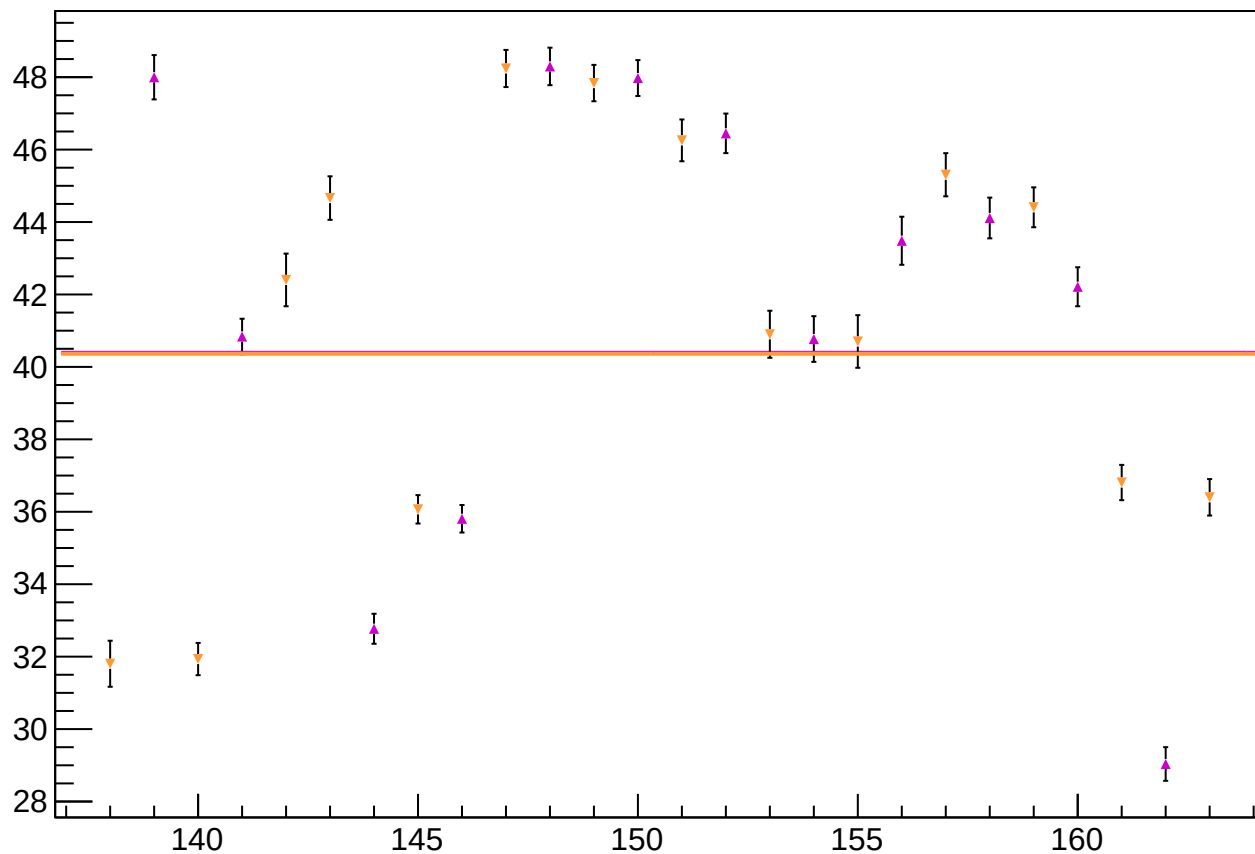
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 4.343 $\pm$ 0.101  $\chi^2$ /NDF:1171.3/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.476 $\pm$ 0.102  $\chi^2$ /NDF:1062.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 4.409 $\pm$ 0.072  $\chi^2$ /NDF: 2234.2/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.363+/-0.144  $\chi^2/\text{NDF}$ :1519.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

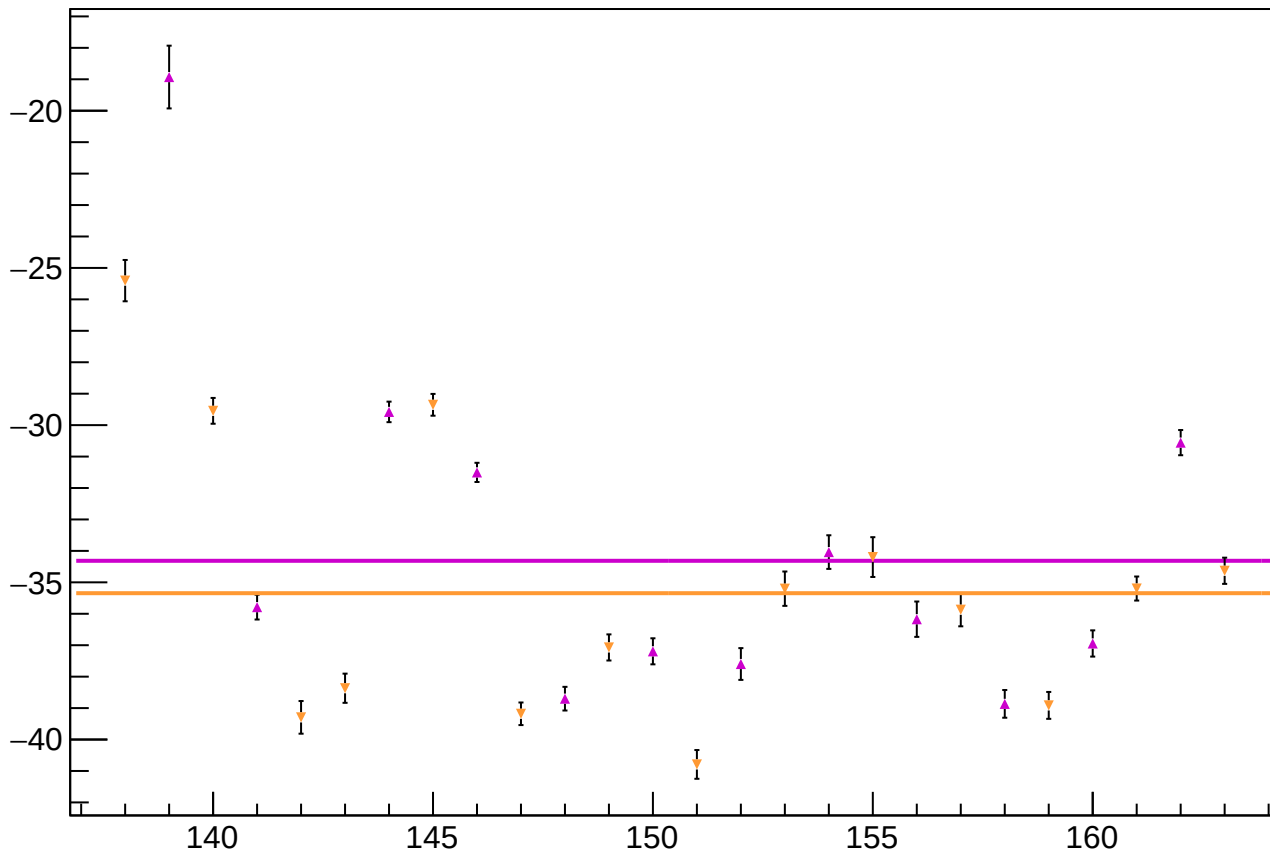
Left In: 40.389+/-0.146  $\chi^2/\text{NDF}$ :1905.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 40.376+/-0.103  $\chi^2/\text{NDF}$ : 3425.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -35.345+/-0.119  $\chi^2/\text{NDF}$ : 1177.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

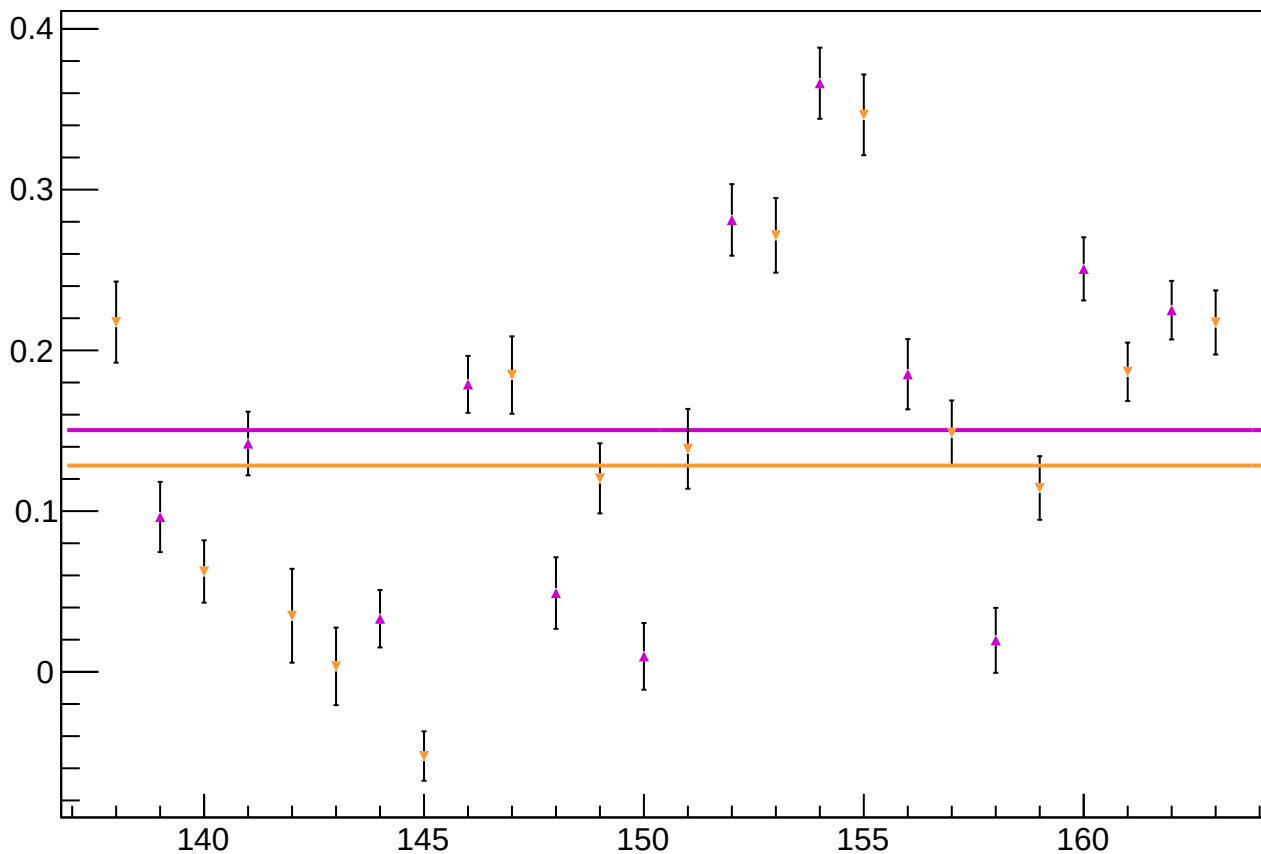
Left In: -34.315+/-0.121  $\chi^2/\text{NDF}$ : 1019.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.840+/-0.085  $\chi^2/\text{NDF}$ : 2233.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug

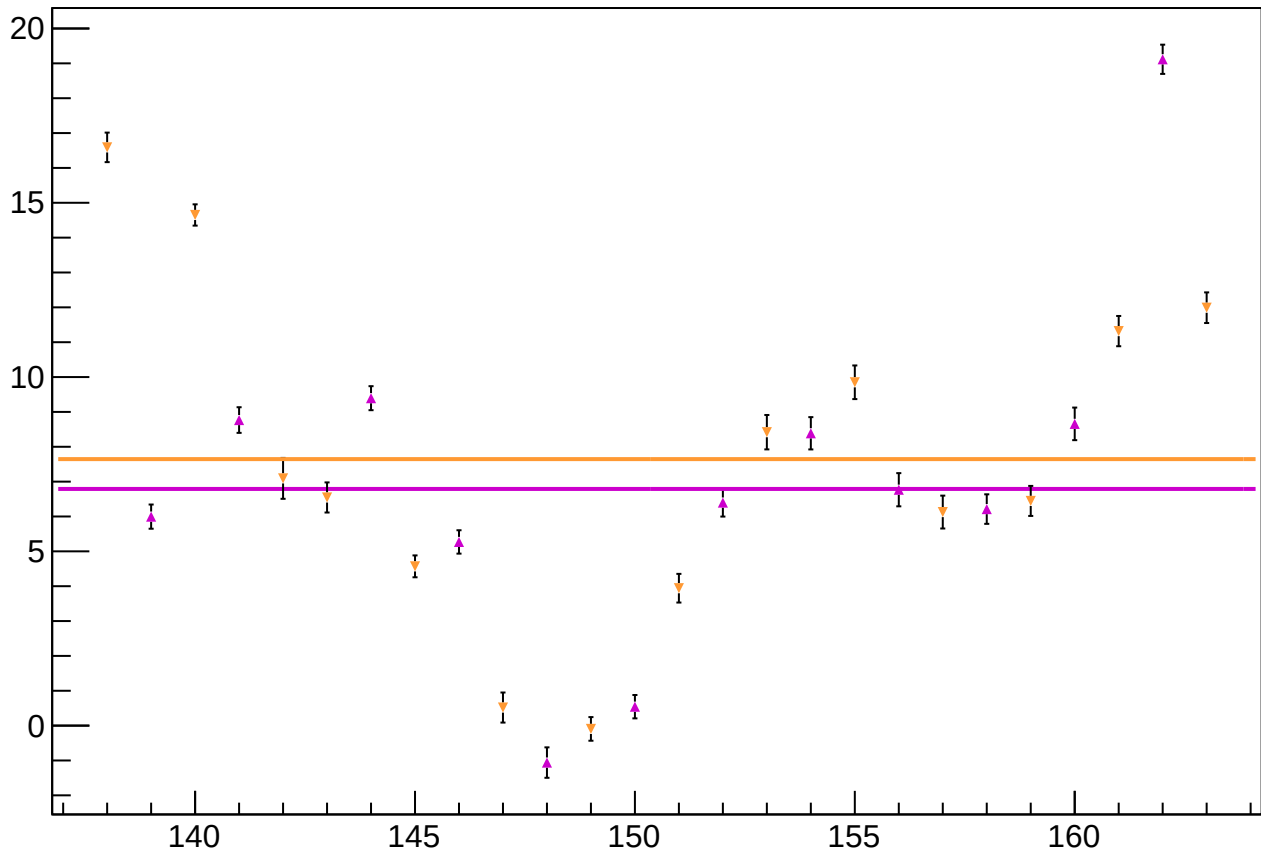


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.128 $\pm$ 0.006  $\chi^2$ /NDF:350.2/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.150 $\pm$ 0.006  $\chi^2$ /NDF:335.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 0.139 $\pm$ 0.004  $\chi^2$ /NDF: 693.3/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



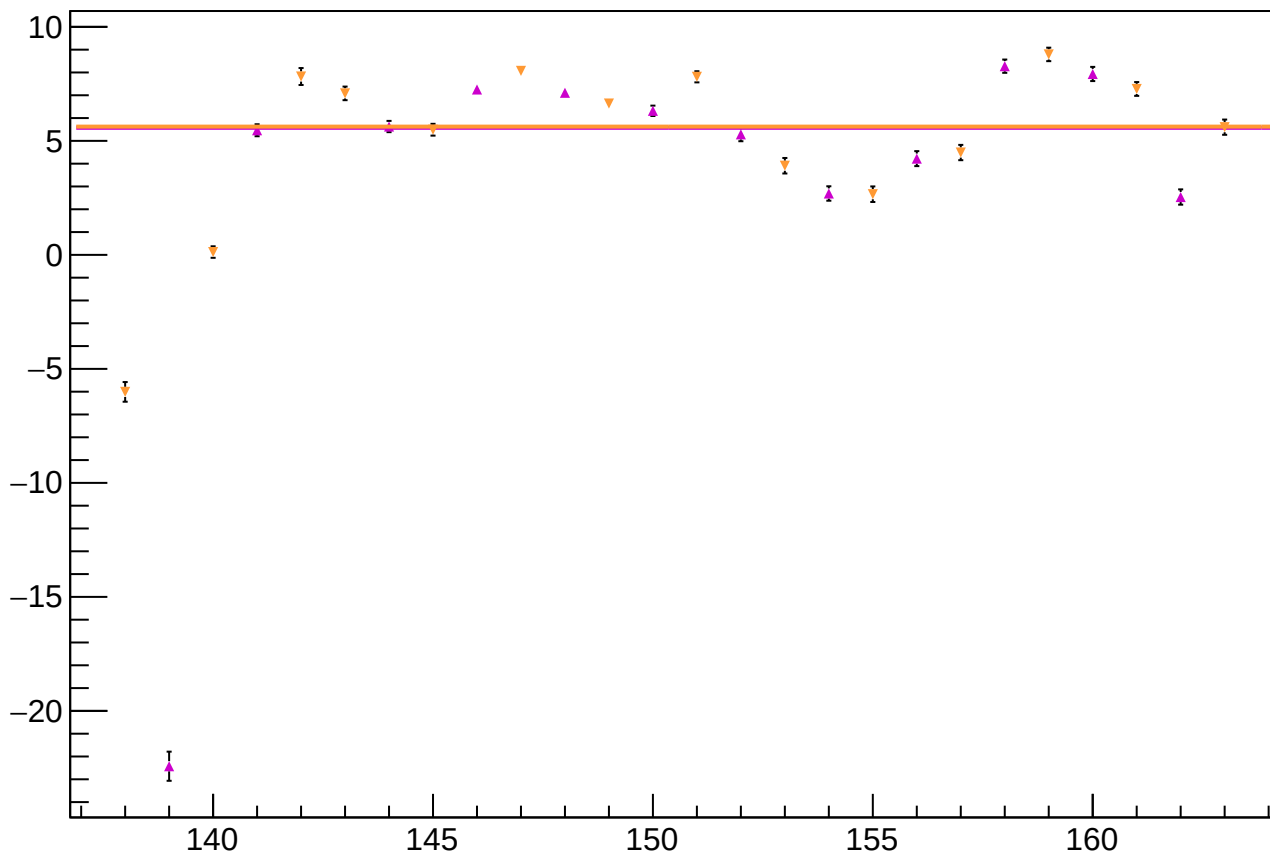
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 7.646 $\pm$ 0.109  $\chi^2$ /NDF:2161.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 6.790 $\pm$ 0.113  $\chi^2$ /NDF:1677.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 7.232 $\pm$ 0.079  $\chi^2$ /NDF: 3868.7/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

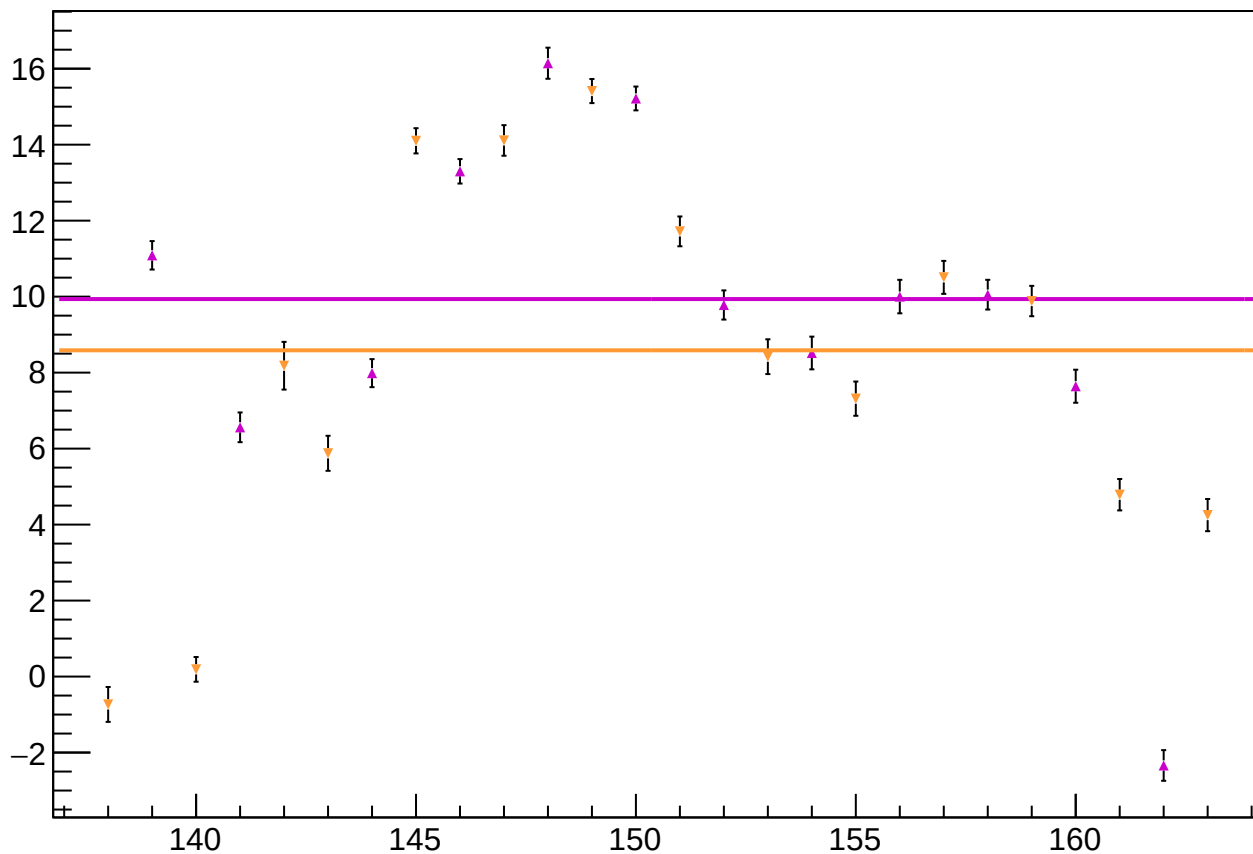
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 5.625+/-0.076  $\chi^2/\text{NDF}$ :1757.5/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.573+/-0.080  $\chi^2/\text{NDF}$ :2370.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 5.600+/-0.055  $\chi^2/\text{NDF}$ : 4127.8/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

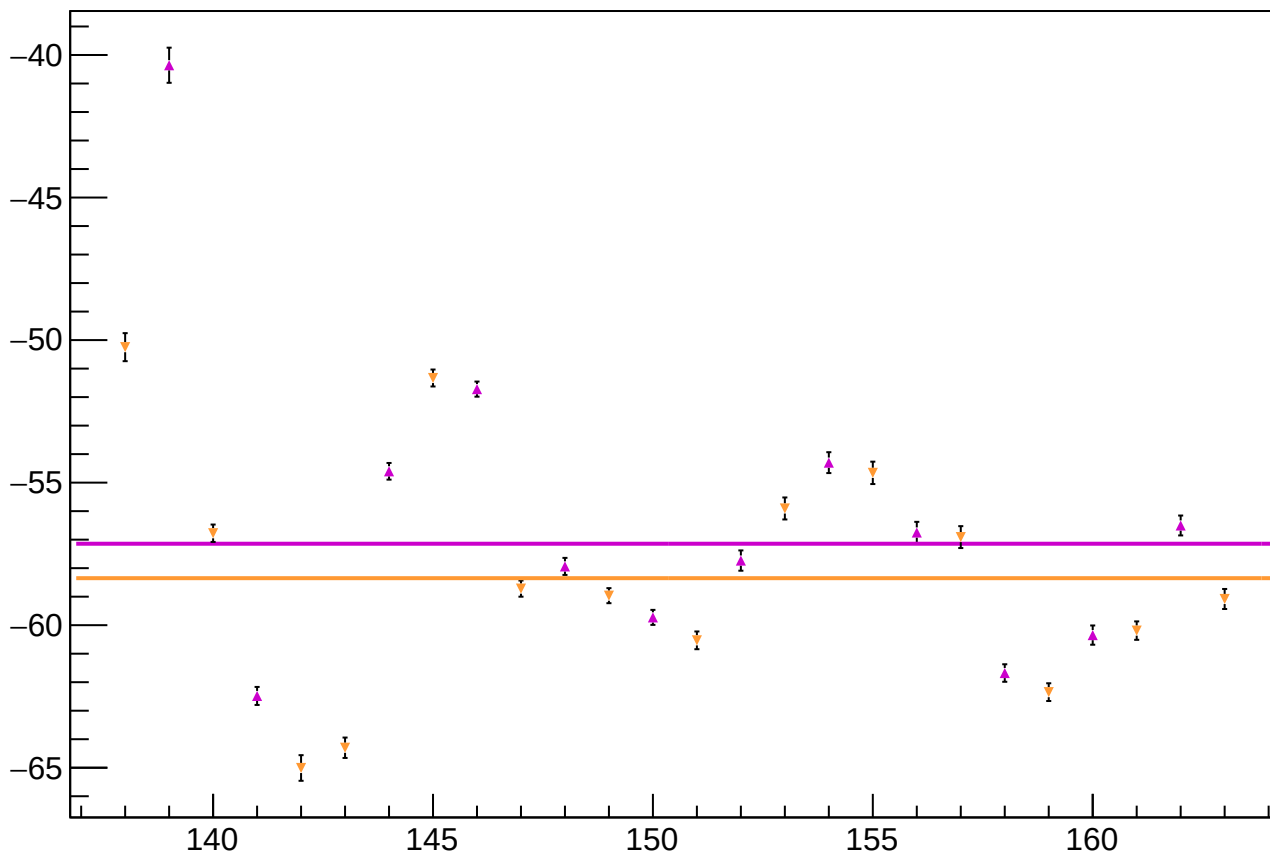
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 8.587 $\pm$ 0.108  $\chi^2$ /NDF:2331.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 9.936 $\pm$ 0.110  $\chi^2$ /NDF:1698.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 9.246 $\pm$ 0.077  $\chi^2$ /NDF: 4106.1/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -58.351+/-0.090  $\chi^2/\text{NDF}$ :1753.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

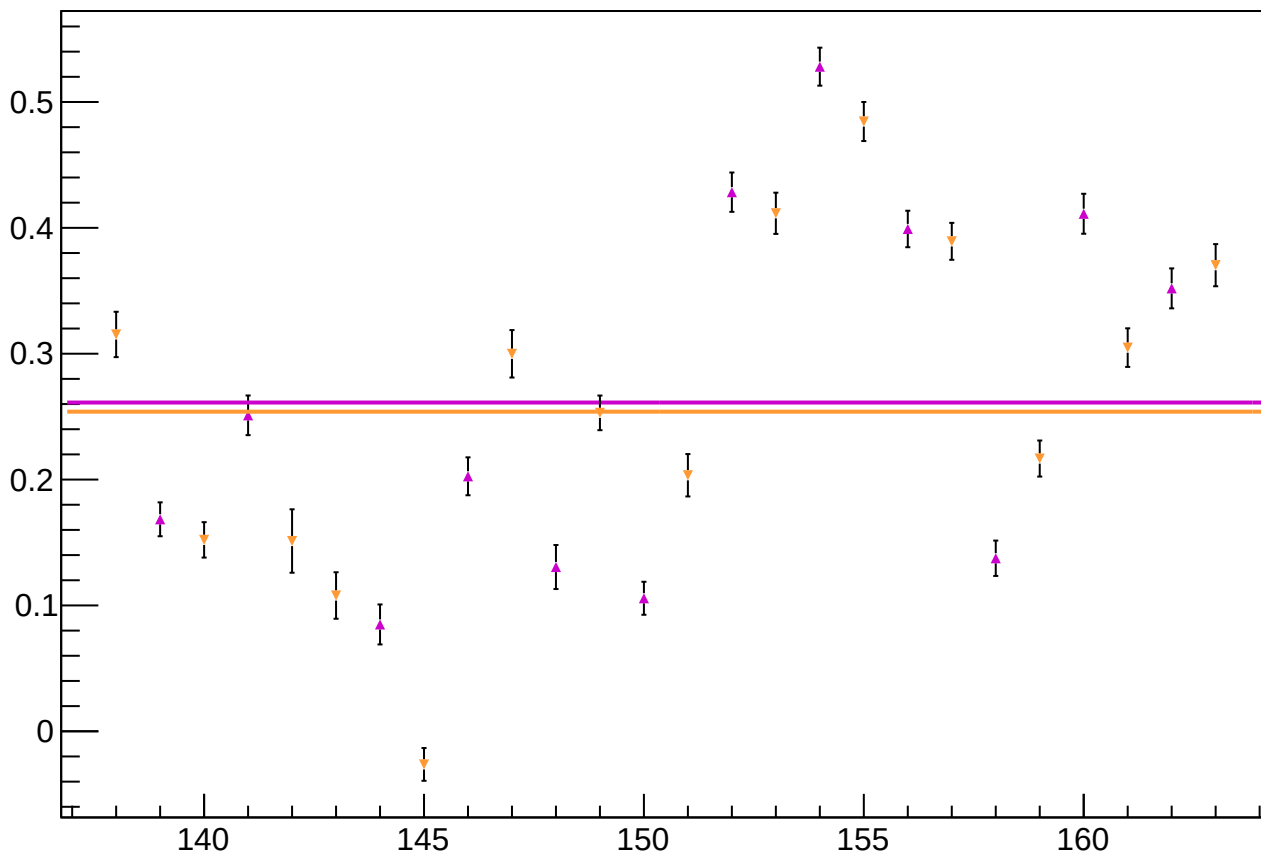
Left In: -57.143+/-0.094  $\chi^2/\text{NDF}$ :2000.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -57.772+/-0.065  $\chi^2/\text{NDF}$ : 3841.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

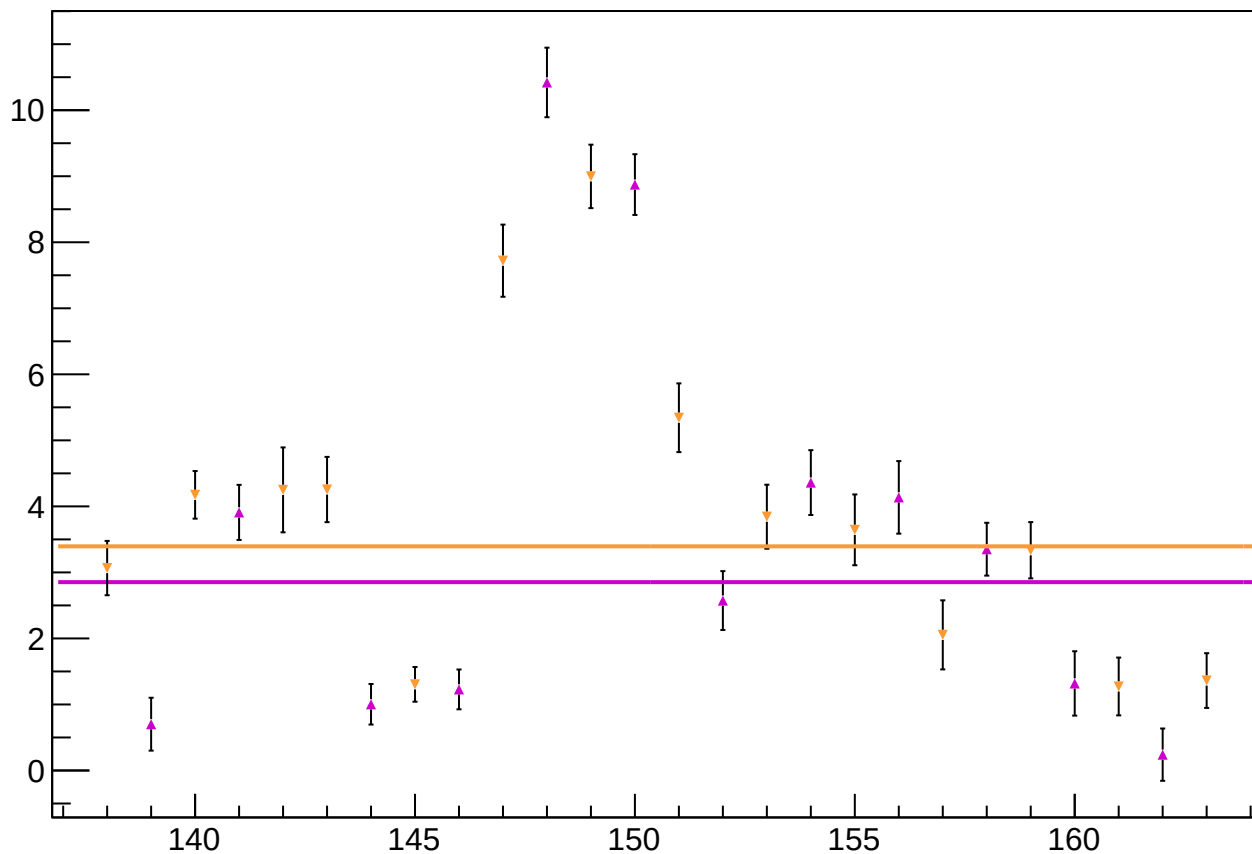
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.254+/-0.004  $\chi^2/\text{NDF}$ :1086.7/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.261+/-0.004  $\chi^2/\text{NDF}$ :1100.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: 0.258+/-0.003  $\chi^2/\text{NDF}$ : 2188.1/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

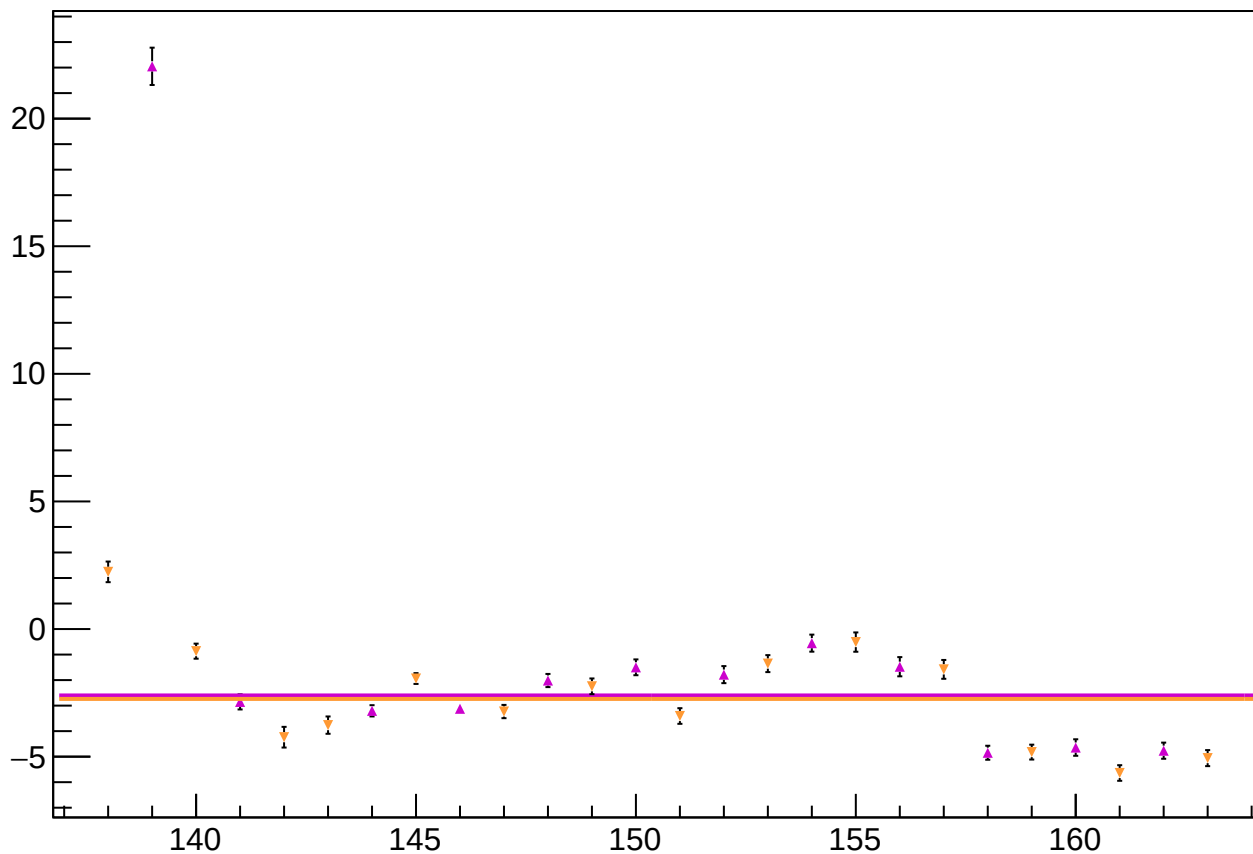
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 3.395 $\pm$ 0.116  $\chi^2$ /NDF:341.1/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 2.853 $\pm$ 0.118  $\chi^2$ /NDF:548.8/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 3.129 $\pm$ 0.083  $\chi^2$ /NDF: 900.5/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

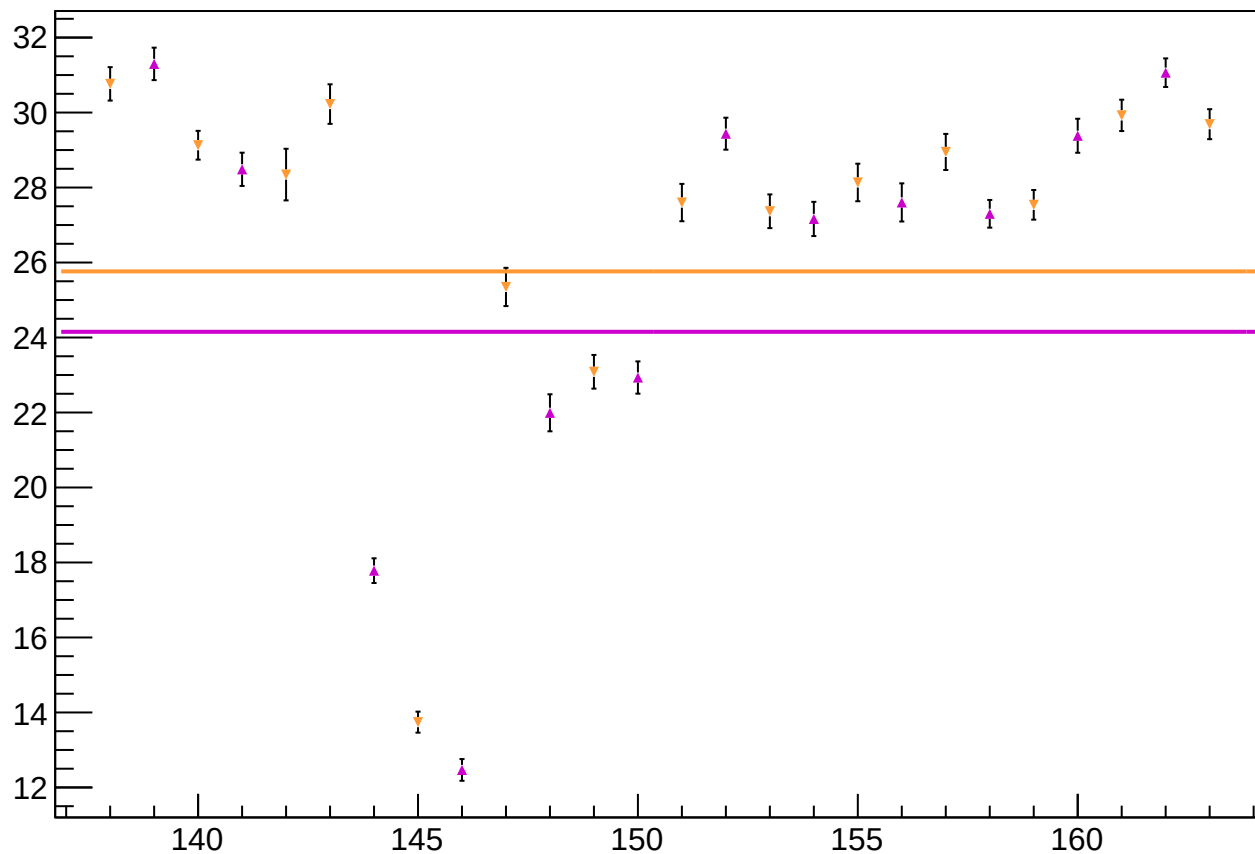
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -2.737 $\pm$ 0.083  $\chi^2$ /NDF:497.5/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -2.602 $\pm$ 0.083  $\chi^2$ /NDF:1376.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -2.670 $\pm$ 0.059  $\chi^2$ /NDF: 1875.3/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 25.763+/-0.116  $\chi^2/\text{NDF}$ :2471.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 24.152+/-0.116  $\chi^2/\text{NDF}$ :3169.6/11

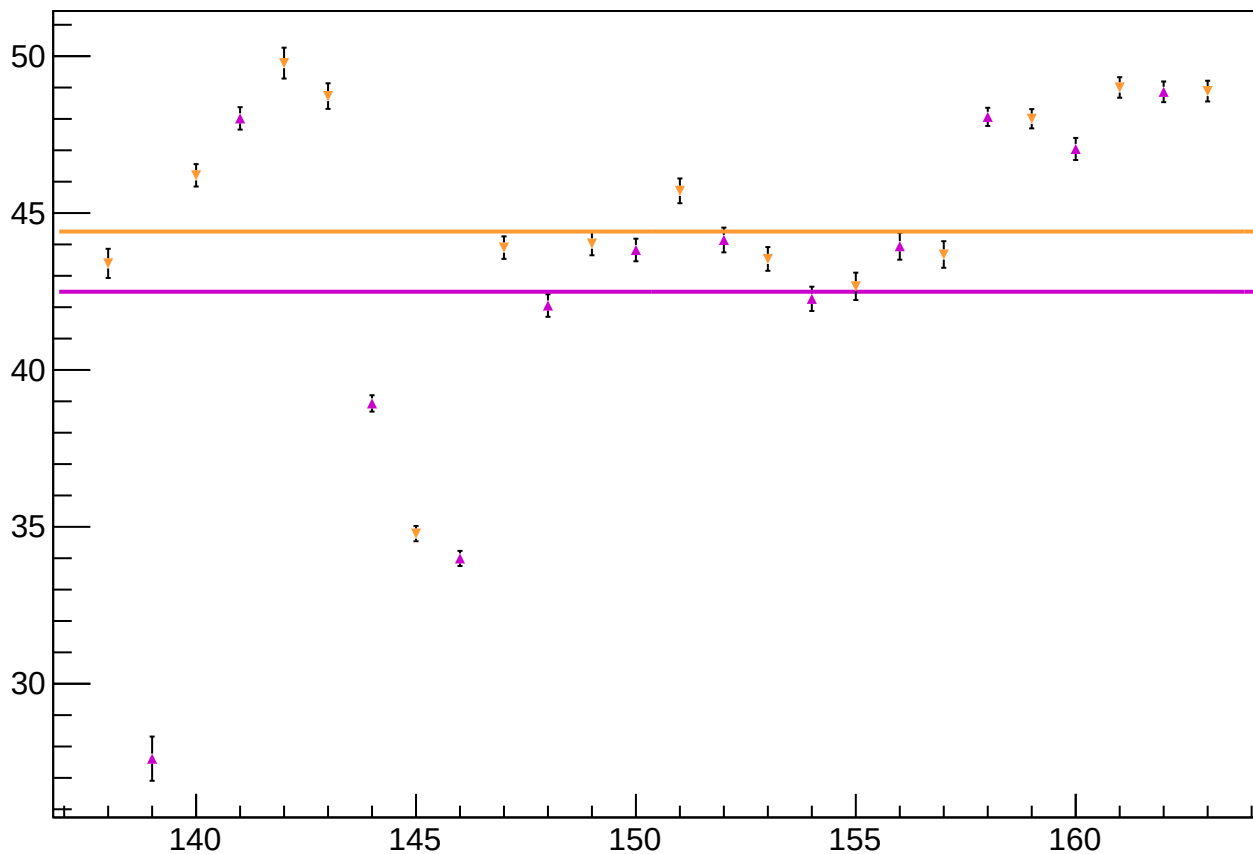
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 24.960+/-0.082  $\chi^2/\text{NDF}$ : 5737.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 44.411+/-0.096  $\chi^2/\text{NDF}$ :2374.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

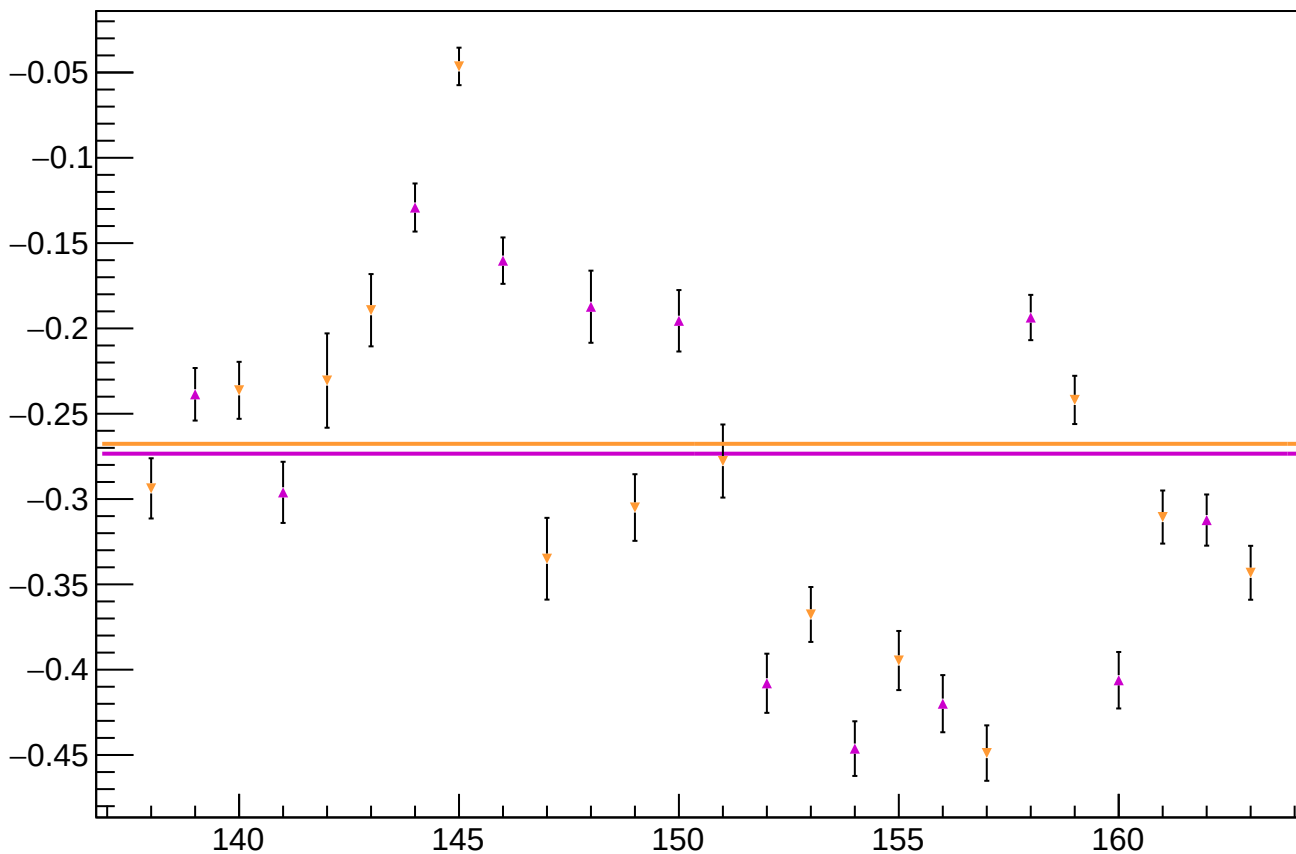
Left In: 42.492+/-0.098  $\chi^2/\text{NDF}$ :3076.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 43.464+/-0.069  $\chi^2/\text{NDF}$ : 5646.8/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -0.268+/-0.005  $\chi^2/\text{NDF}$ : 689.1/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

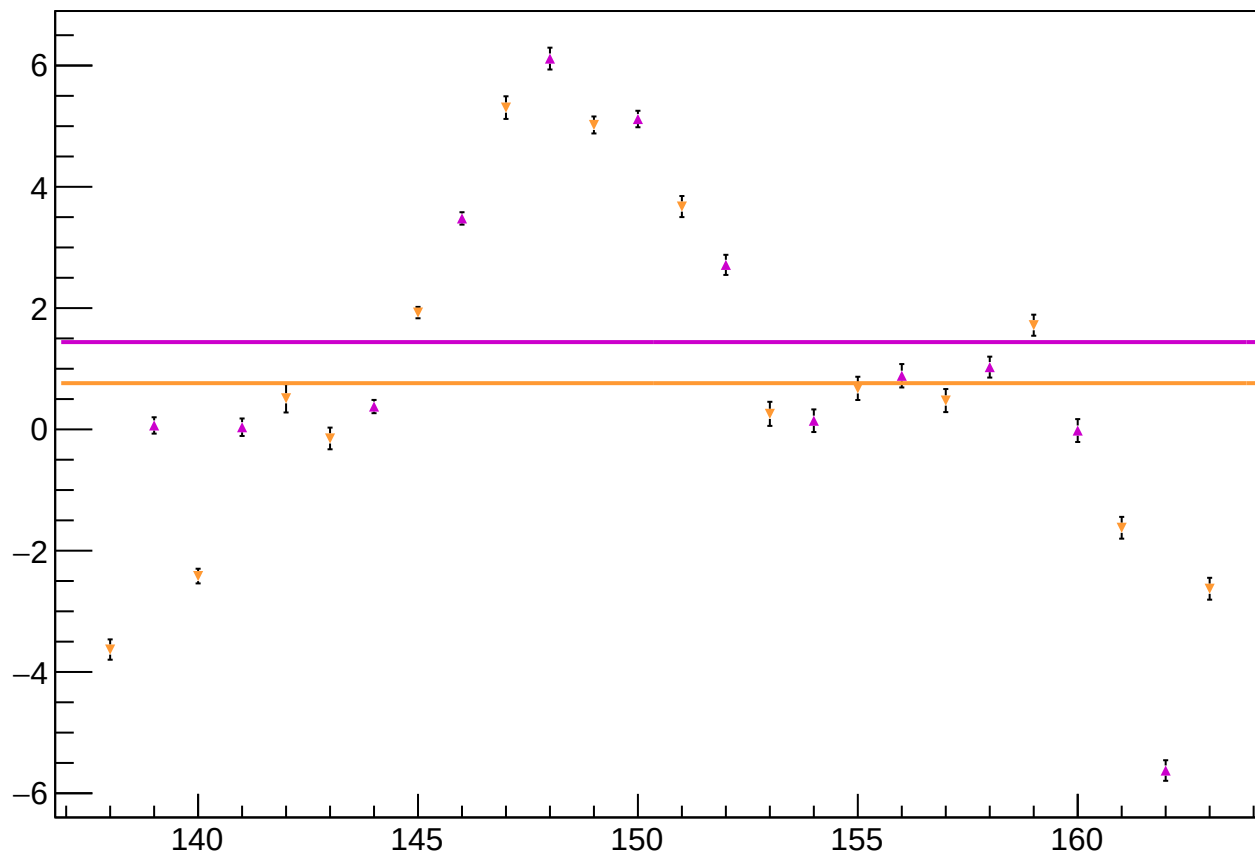
Left In: -0.273+/-0.005  $\chi^2/\text{NDF}$ : 576.4/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.270+/-0.003  $\chi^2/\text{NDF}$ : 1266.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

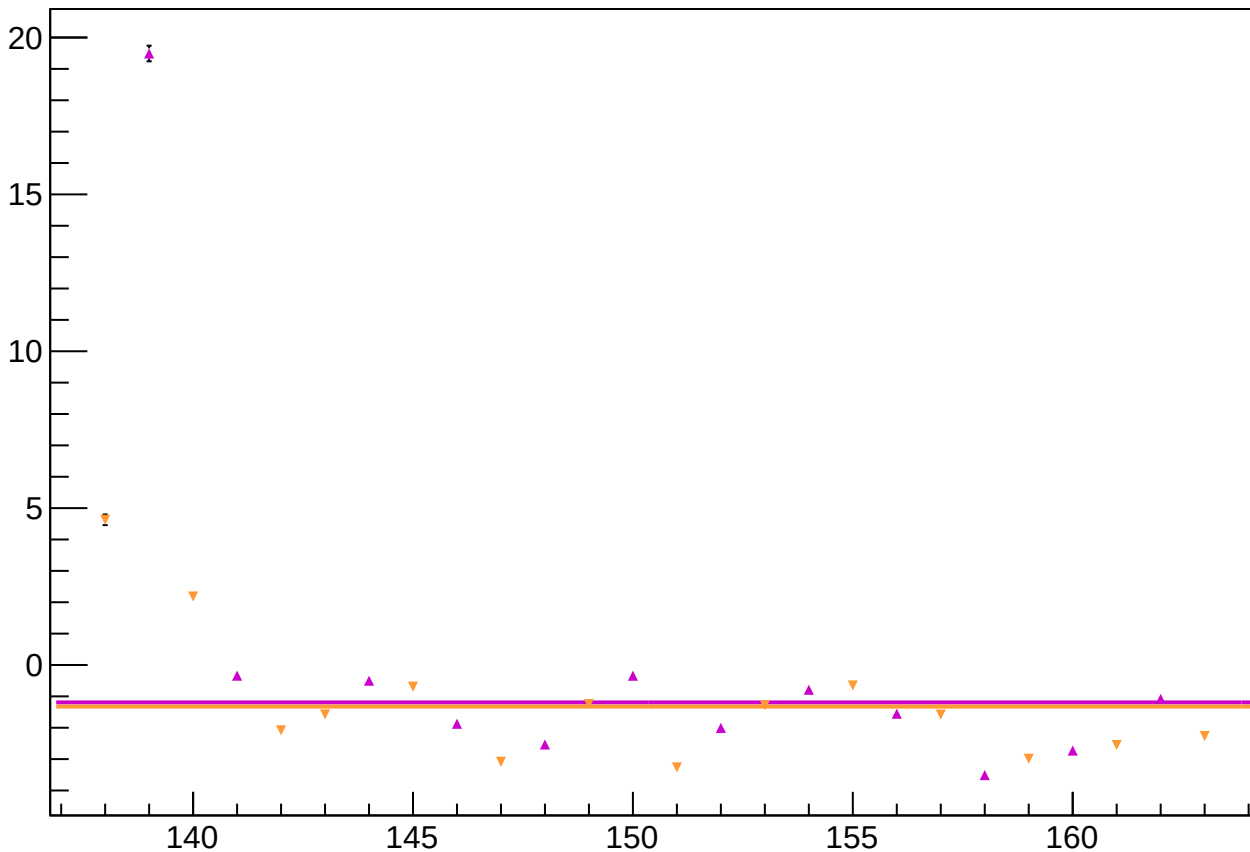
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.762 $\pm$ 0.042  $\chi^2$ /NDF:3925.8/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.439 $\pm$ 0.042  $\chi^2$ /NDF:4013.9/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: 1.101 $\pm$ 0.030  $\chi^2$ /NDF: 8067.0/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

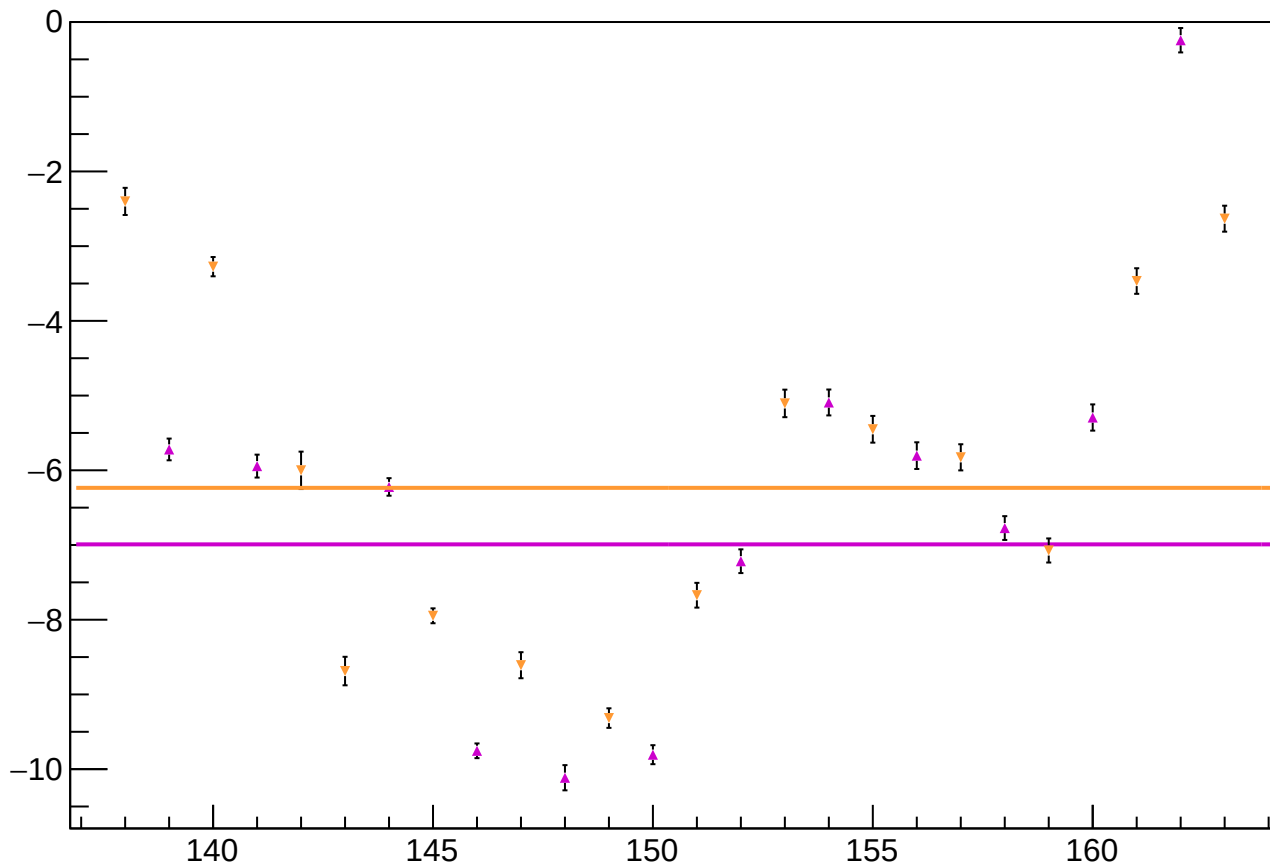
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.325+/-0.030  $\chi^2/\text{NDF}$ : 3674.3/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.193+/-0.030  $\chi^2/\text{NDF}$ : 8044.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -1.259+/-0.021  $\chi^2/\text{NDF}$ : 11728.9/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

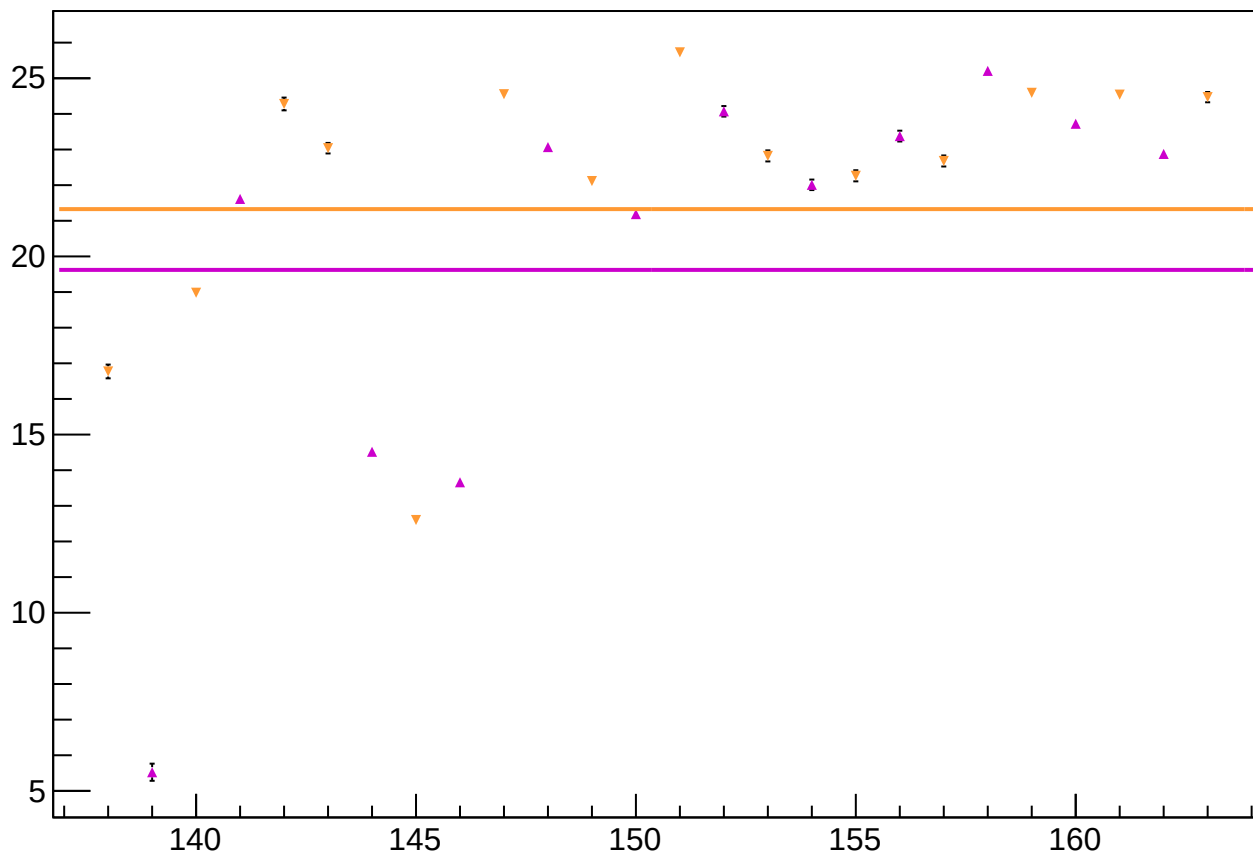
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-6.235 \pm 0.042$   $\chi^2/\text{NDF}$ : 3028.7/13  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-6.991 \pm 0.042$   $\chi^2/\text{NDF}$ : 3755.5/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 All:  $-6.618 \pm 0.030$   $\chi^2/\text{NDF}$ : 6946.8/25  
 - sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 21.328+/-0.035  $\chi^2/\text{NDF}$ :14909.5/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

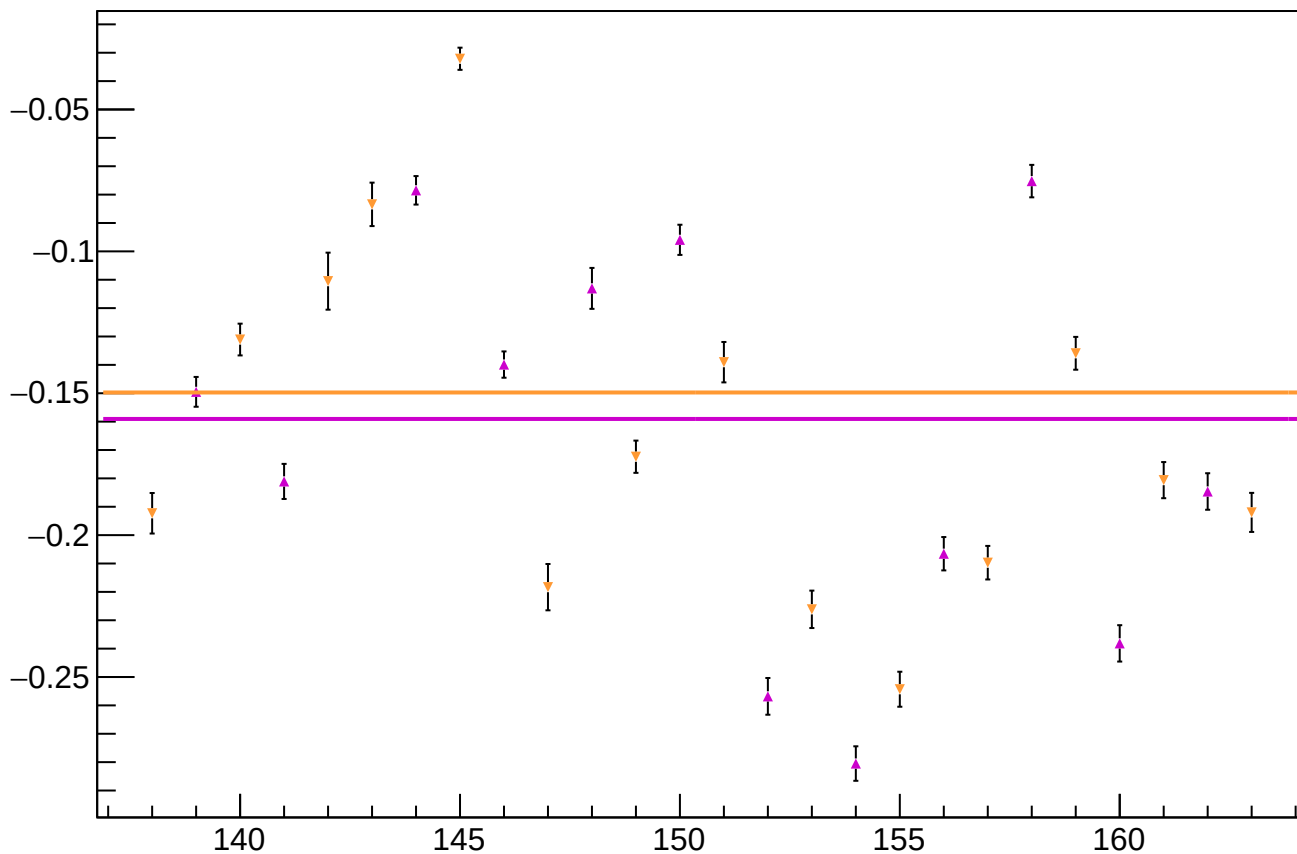
Left In: 19.622+/-0.035  $\chi^2/\text{NDF}$ :18181.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 20.474+/-0.025  $\chi^2/\text{NDF}$ : 34258.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

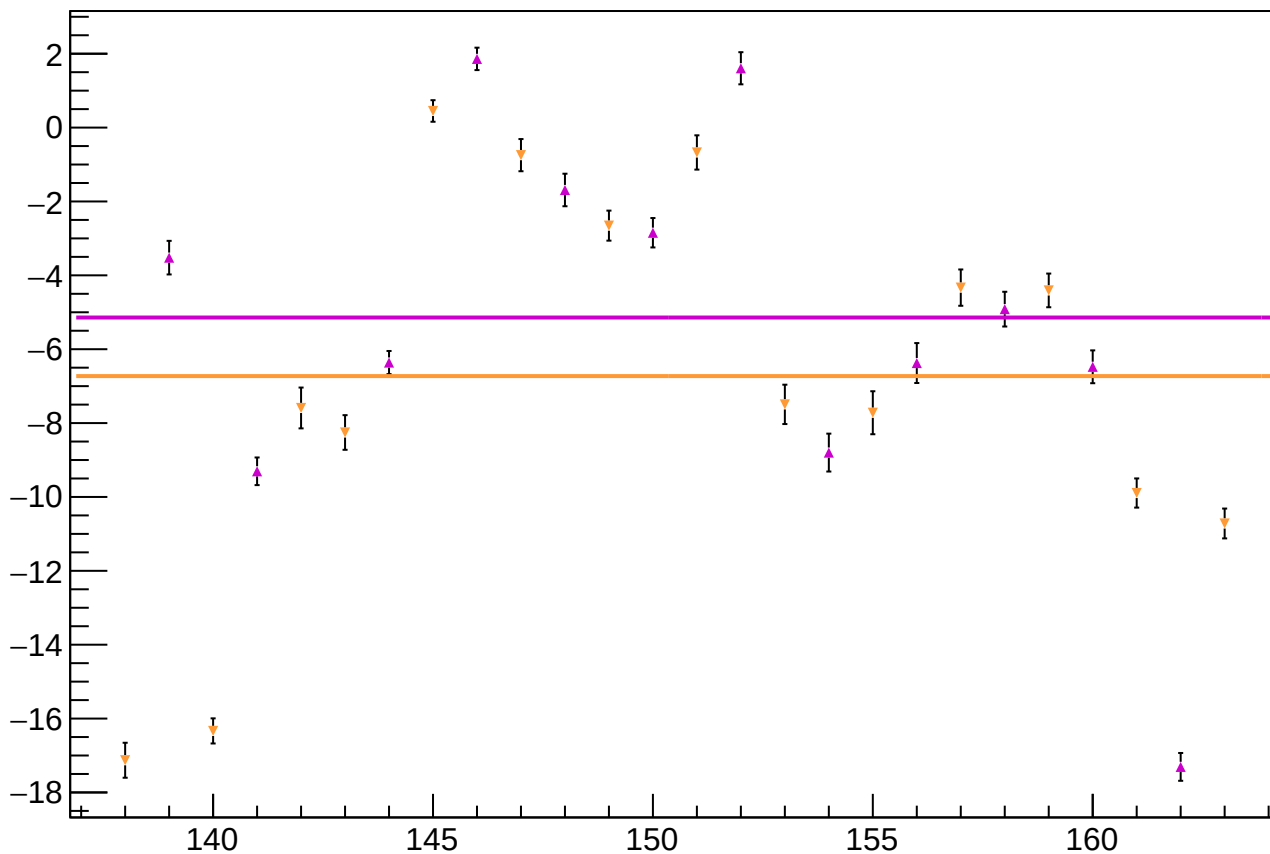
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.150 $\pm$ 0.002  $\chi^2$ /NDF:1723.0/13  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.159 $\pm$ 0.002  $\chi^2$ /NDF:1547.5/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 All: -0.154 $\pm$ 0.001  $\chi^2$ /NDF: 3286.3/25  
 - sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug

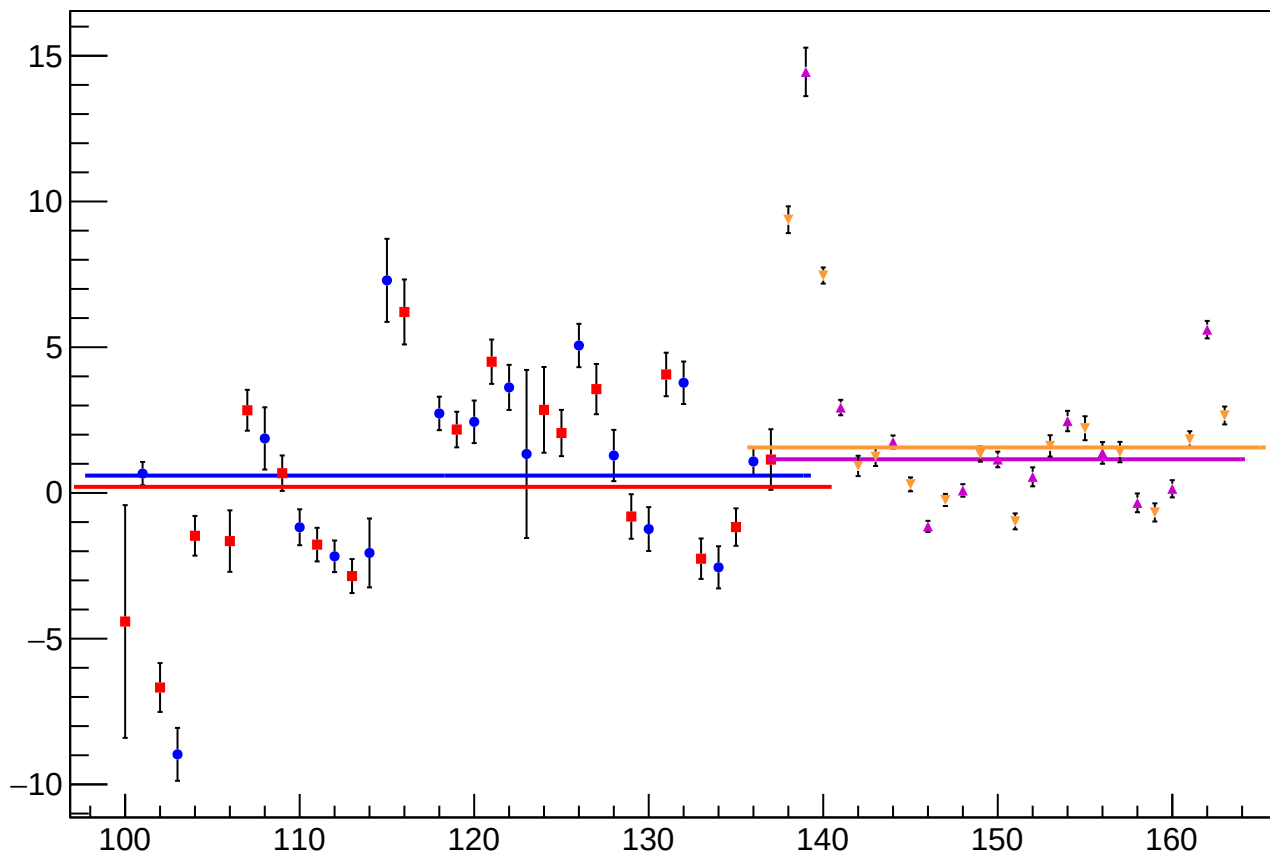


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.728+/-0.114  $\chi^2/\text{NDF}$ : 2573.6/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.142+/-0.117  $\chi^2/\text{NDF}$ : 2129.0/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -5.951+/-0.082  $\chi^2/\text{NDF}$ : 4797.1/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $0.596 \pm 0.169$   $\chi^2/\text{NDF}$ : 291.2/16

Left Out:  $1.561 \pm 0.079$   $\chi^2/\text{NDF}$ : 1007.7/13

Right Out:  $0.209 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.5/18

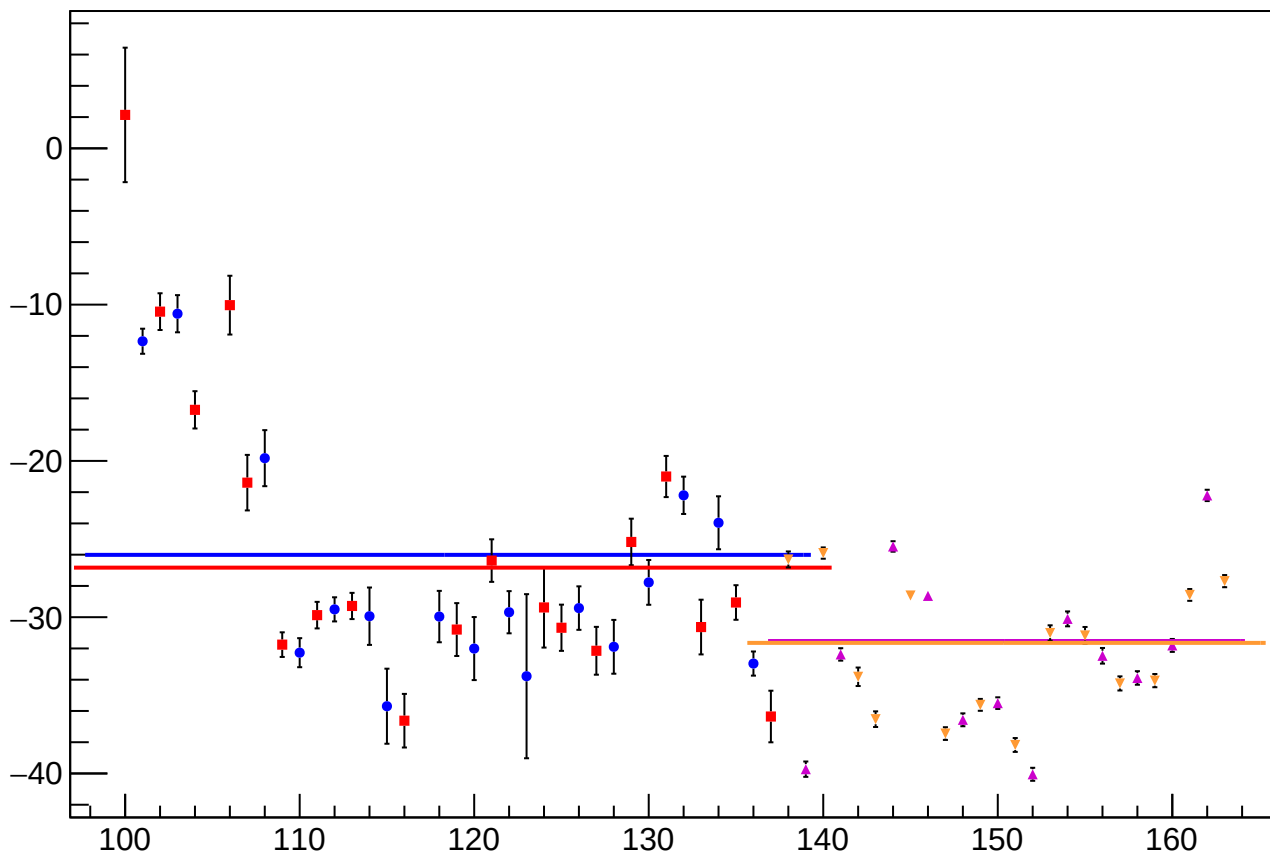
Left In:  $1.156 \pm 0.080$   $\chi^2/\text{NDF}$ : 748.2/11

+ sign  $1.388 \pm 0.072$   $\chi^2/\text{NDF}$ : 1325.6/30

All:  $1.193 \pm 0.051$   $\chi^2/\text{NDF}$ : 2386.7/61

- sign  $0.991 \pm 0.073$   $\chi^2/\text{NDF}$ : 1046.0/30

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-26.012 \pm 0.300$   $\chi^2/\text{NDF}$ : 692.9/16

Left Out:  $-31.644 \pm 0.113$   $\chi^2/\text{NDF}$ : 1330.5/13

Right Out:  $-26.829 \pm 0.297$   $\chi^2/\text{NDF}$ : 581.6/18

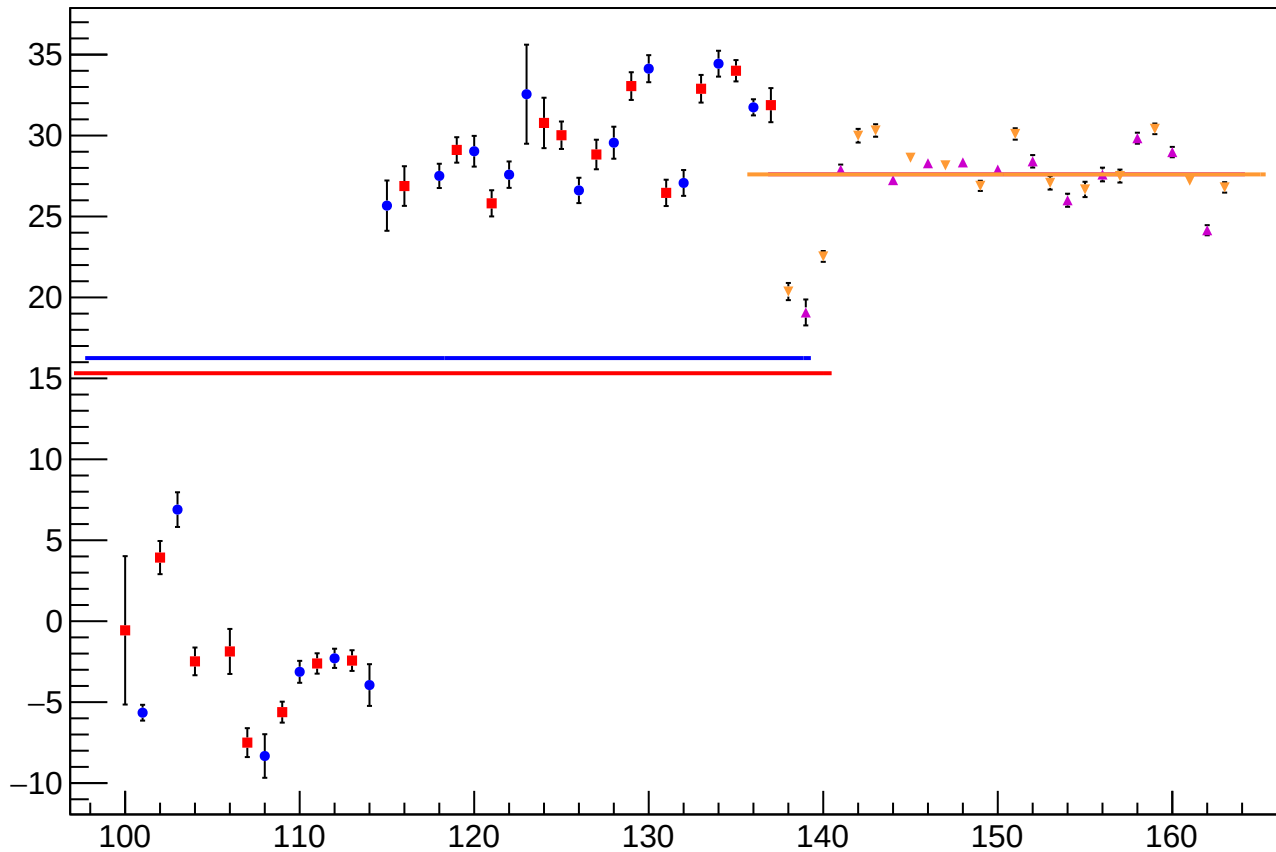
Left In:  $-31.524 \pm 0.114$   $\chi^2/\text{NDF}$ : 2092.2/11

+ sign  $-30.942 \pm 0.106$   $\chi^2/\text{NDF}$ : 2332.8/30

All:  $-30.933 \pm 0.075$   $\chi^2/\text{NDF}$ : 5223.9/61

- sign  $-30.924 \pm 0.106$   $\chi^2/\text{NDF}$ : 2891.0/30

# reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 16.253 $\pm$ 0.191  $\chi^2$ /NDF: 7611.3/16

Left Out: 27.600 $\pm$ 0.093  $\chi^2$ /NDF: 657.6/13

Right Out: 15.318 $\pm$ 0.197  $\chi^2$ /NDF: 7280.1/18

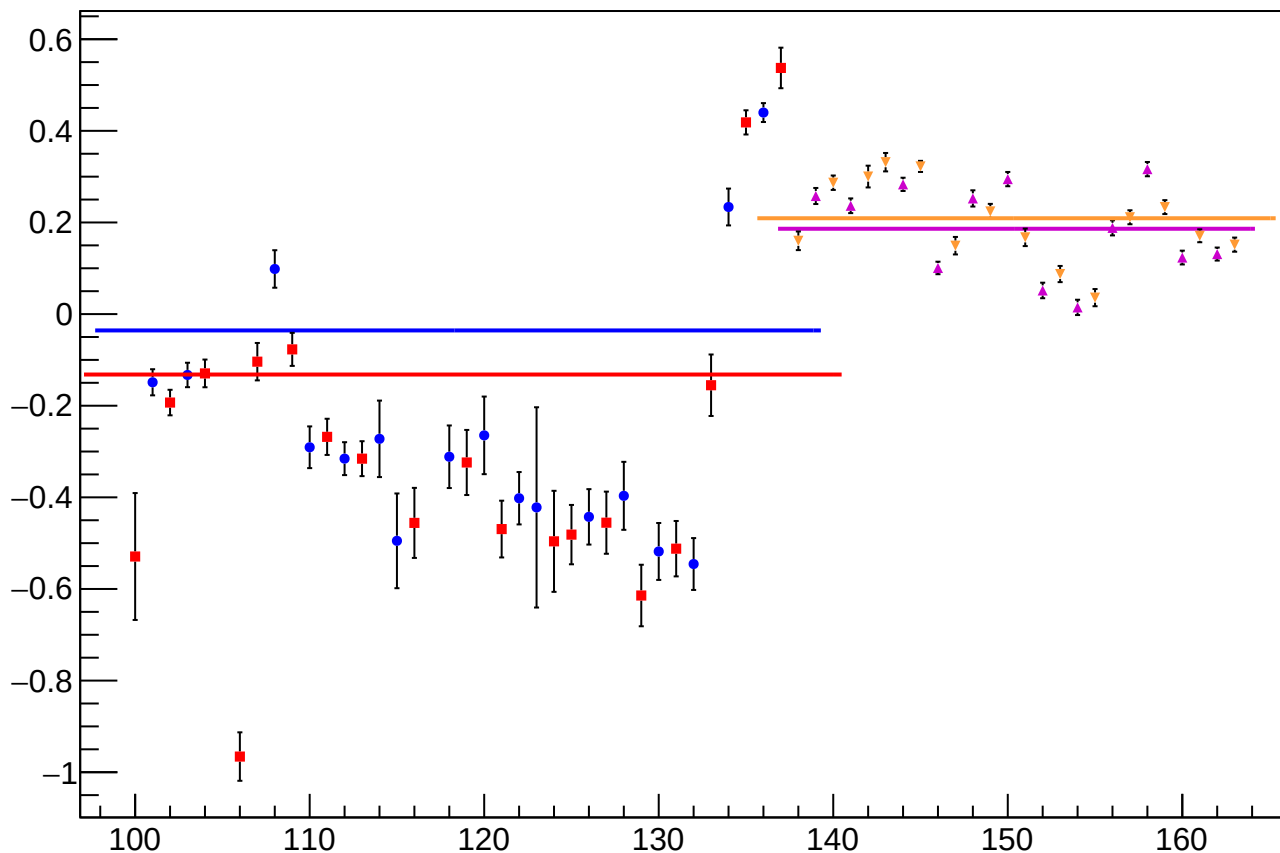
Left In: 27.609 $\pm$ 0.095  $\chi^2$ /NDF: 334.5/11

+ sign 25.421 $\pm$ 0.084  $\chi^2$ /NDF: 11119.7/30

All: 25.363 $\pm$ 0.060  $\chi^2$ /NDF: 21897.9/61

- sign 25.303 $\pm$ 0.085  $\chi^2$ /NDF: 10777.2/30

# reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.036 \pm 0.010$   $\chi^2/\text{NDF}$ : 1014.5/16

Left Out:  $0.209 \pm 0.004$   $\chi^2/\text{NDF}$ : 340.8/13

Right Out:  $-0.132 \pm 0.010$   $\chi^2/\text{NDF}$ : 1171.3/18

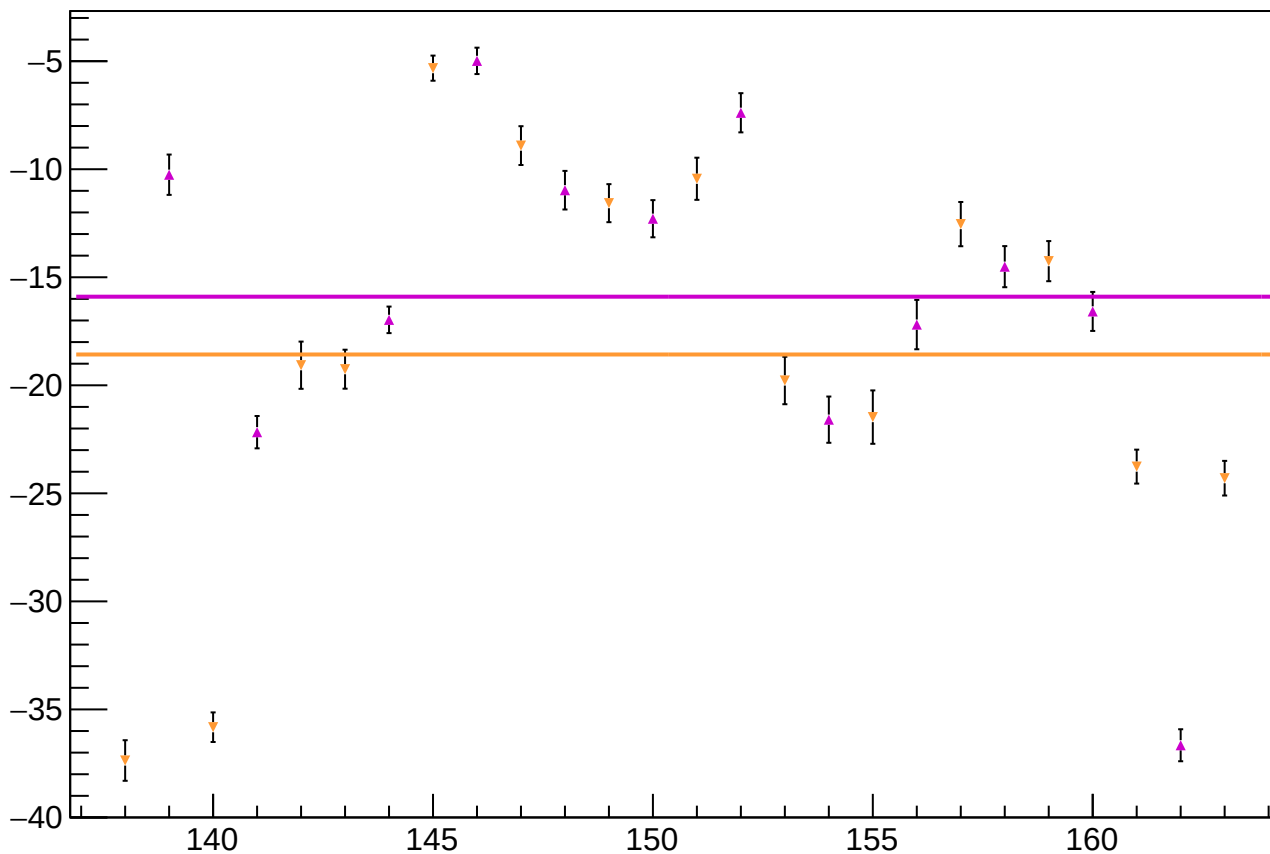
Left In:  $0.186 \pm 0.005$   $\chi^2/\text{NDF}$ : 443.3/11

+ sign  $0.171 \pm 0.004$   $\chi^2/\text{NDF}$ : 1830.7/30

All:  $0.153 \pm 0.003$   $\chi^2/\text{NDF}$ : 4274.7/61

- sign  $0.135 \pm 0.004$   $\chi^2/\text{NDF}$ : 2406.6/30

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.574+/-0.232  $\chi^2/\text{NDF}$ :1961.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

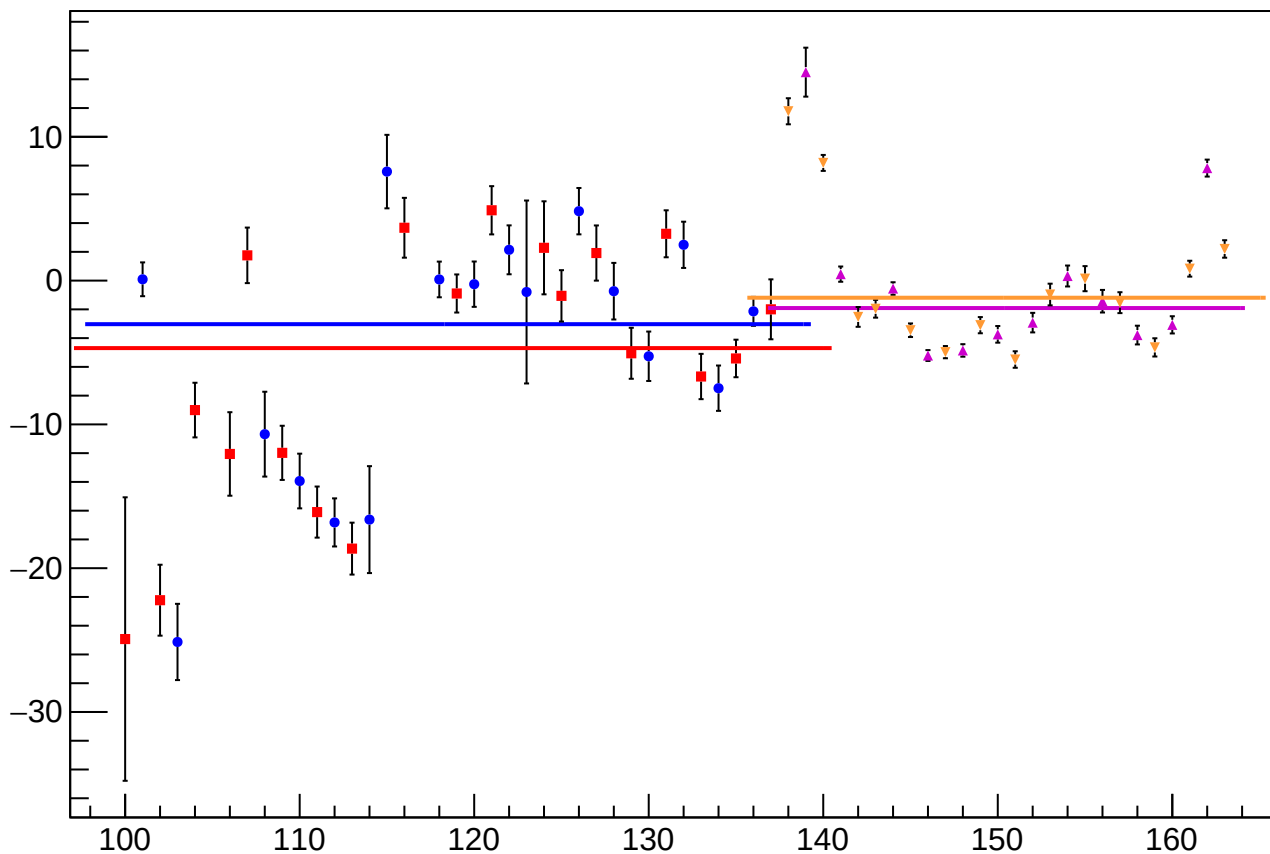
Left In: -15.899+/-0.236  $\chi^2/\text{NDF}$ :1383.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -17.264+/-0.165  $\chi^2/\text{NDF}$ : 3410.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.030 \pm 0.408$   $\chi^2/\text{NDF}$ : 280.8/16

Left Out:  $-1.191 \pm 0.160$   $\chi^2/\text{NDF}$ : 741.3/13

Right Out:  $-4.694 \pm 0.427$   $\chi^2/\text{NDF}$ : 298.3/18

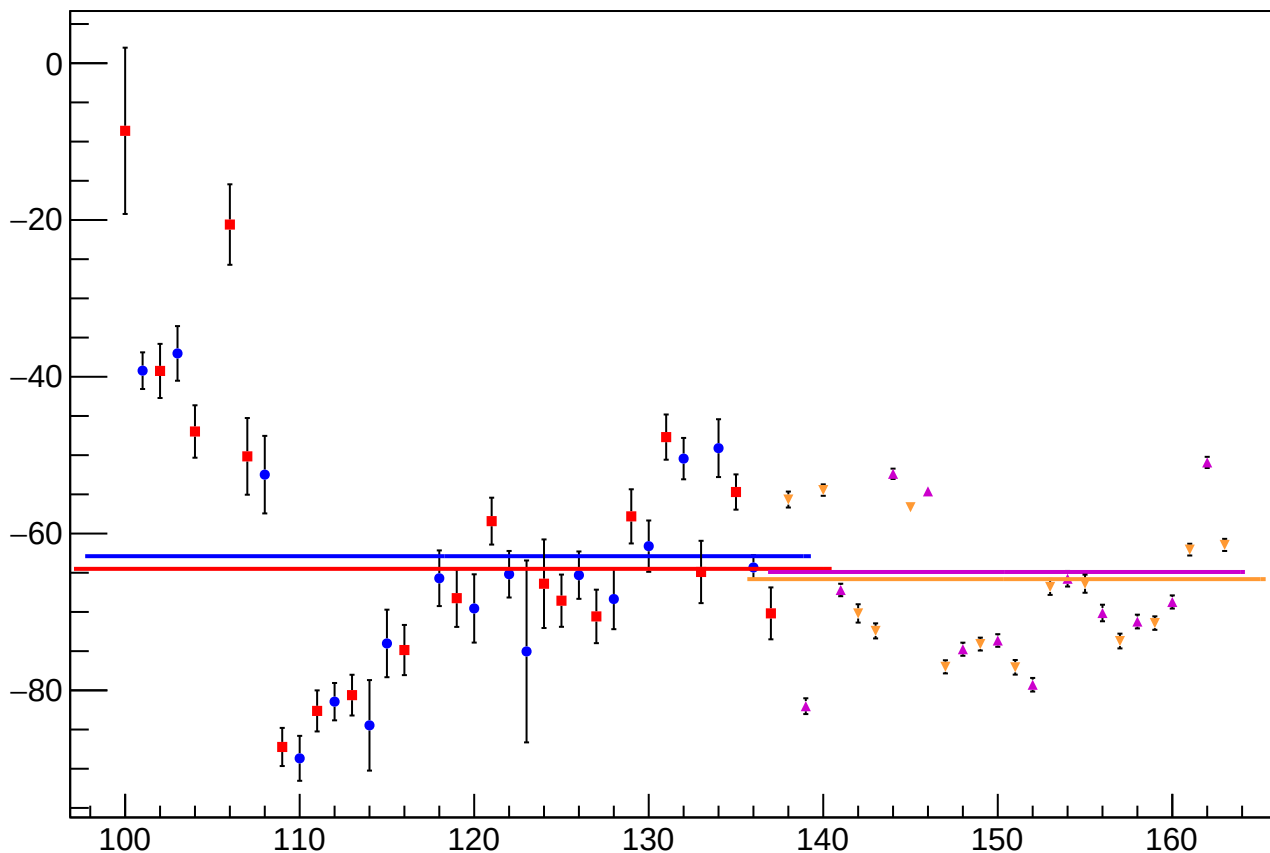
Left In:  $-1.909 \pm 0.162$   $\chi^2/\text{NDF}$ : 550.7/11

+ sign  $-1.438 \pm 0.149$   $\chi^2/\text{NDF}$ : 1039.7/30

All:  $-1.843 \pm 0.106$   $\chi^2/\text{NDF}$ : 1940.8/61

- sign  $-2.260 \pm 0.151$   $\chi^2/\text{NDF}$ : 886.2/30

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-62.887 \pm 0.738$   $\chi^2/\text{NDF}: 368.7/16$

Left Out:  $-65.813 \pm 0.230$   $\chi^2/\text{NDF}: 1219.6/13$

Right Out:  $-64.502 \pm 0.751$   $\chi^2/\text{NDF}: 444.1/18$

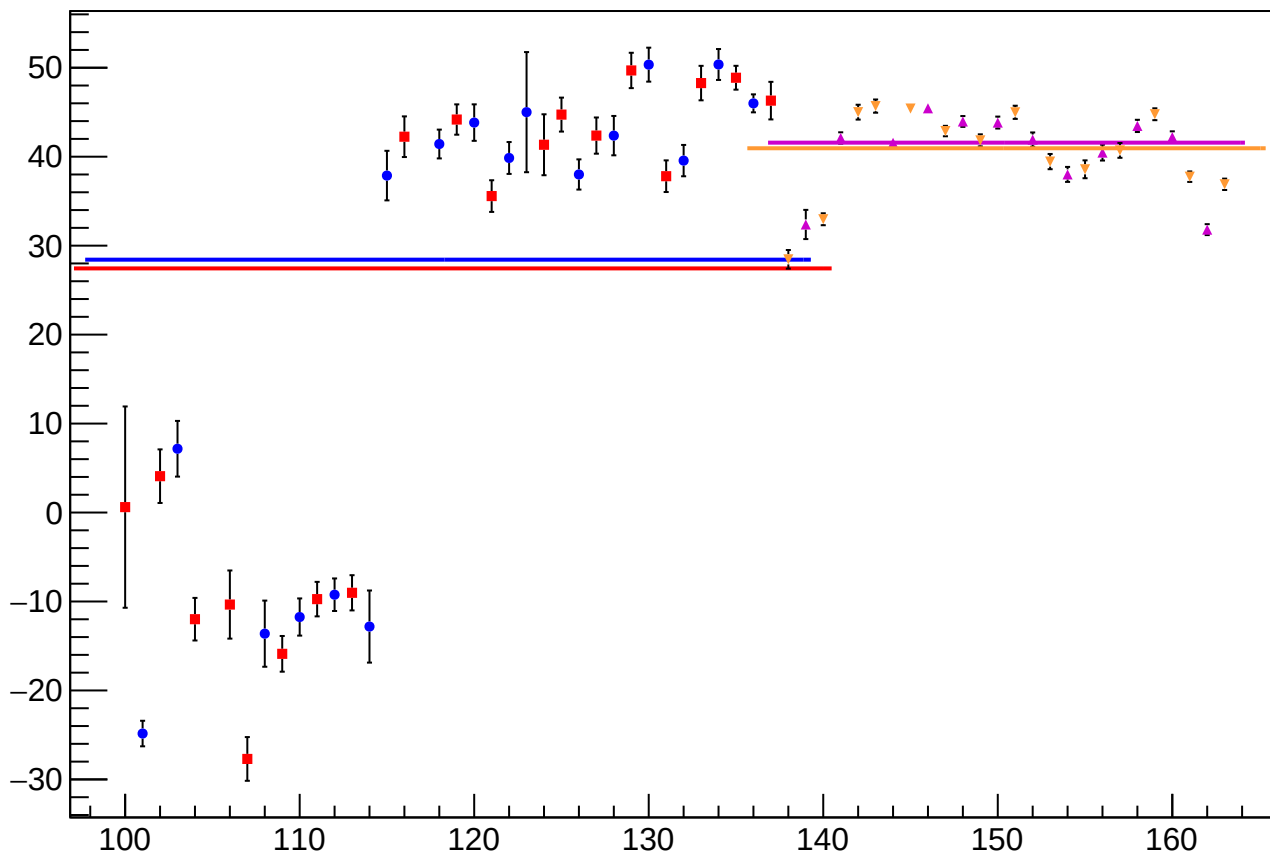
Left In:  $-64.901 \pm 0.231$   $\chi^2/\text{NDF}: 1979.4/11$

+ sign  $-65.555 \pm 0.219$   $\chi^2/\text{NDF}: 1602.7/30$

All:  $-65.214 \pm 0.156$   $\chi^2/\text{NDF}: 4031.3/61$

- sign  $-64.867 \pm 0.221$   $\chi^2/\text{NDF}: 2423.7/30$

# reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $28.425 \pm 0.457$   $\chi^2/\text{NDF}: 3330.3/16$

Left Out:  $40.947 \pm 0.189$   $\chi^2/\text{NDF}: 567.7/13$

Right Out:  $27.441 \pm 0.479$   $\chi^2/\text{NDF}: 3033.0/18$

Left In:  $41.578 \pm 0.192$   $\chi^2/\text{NDF}: 405.5/11$

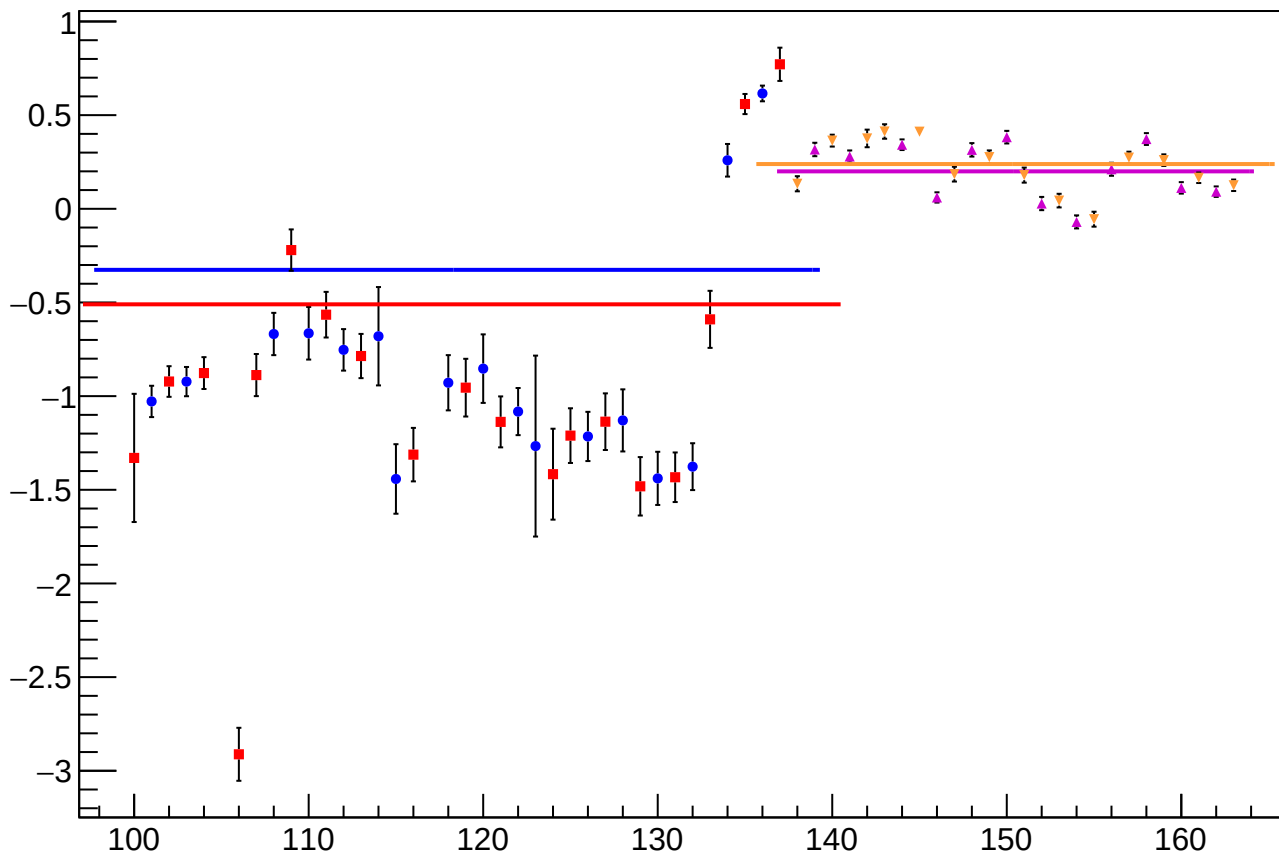
+ sign  $39.118 \pm 0.175$   $\chi^2/\text{NDF}: 4538.9/30$

All:  $39.365 \pm 0.125$   $\chi^2/\text{NDF}: 8733.1/61$

- sign  $39.623 \pm 0.178$   $\chi^2/\text{NDF}: 4190.1/30$



# reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-0.326 \pm 0.025$   $\chi^2/\text{NDF}$ : 1013.0/16

Left Out:  $0.239 \pm 0.009$   $\chi^2/\text{NDF}$ : 212.2/13

Right Out:  $-0.510 \pm 0.026$   $\chi^2/\text{NDF}$ : 1169.4/18

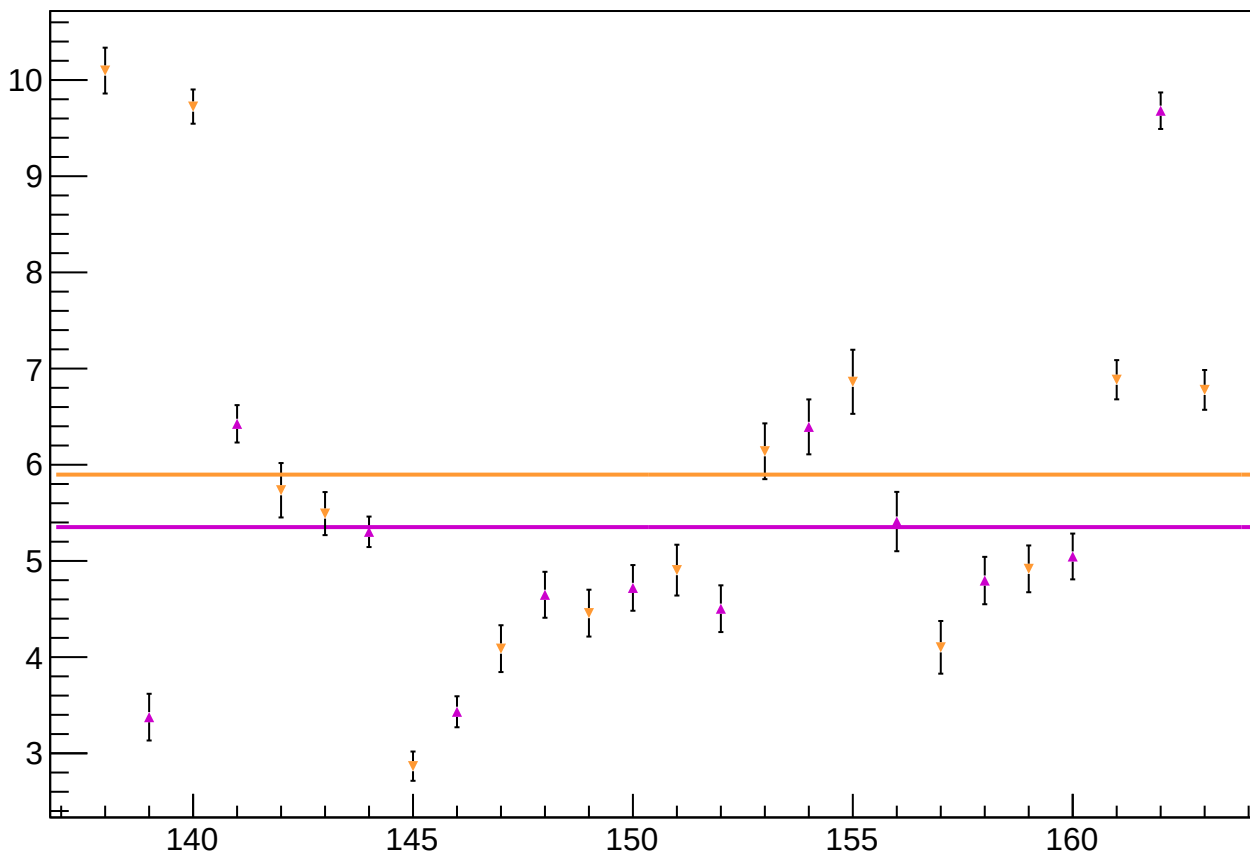
Left In:  $0.200 \pm 0.009$   $\chi^2/\text{NDF}$ : 243.8/11

+ sign  $0.173 \pm 0.009$   $\chi^2/\text{NDF}$ : 1679.8/30

All:  $0.147 \pm 0.006$   $\chi^2/\text{NDF}$ : 3788.6/61

- sign  $0.119 \pm 0.009$   $\chi^2/\text{NDF}$ : 2088.9/30

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.898+/-0.061  $\chi^2/\text{NDF}$ :1387.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

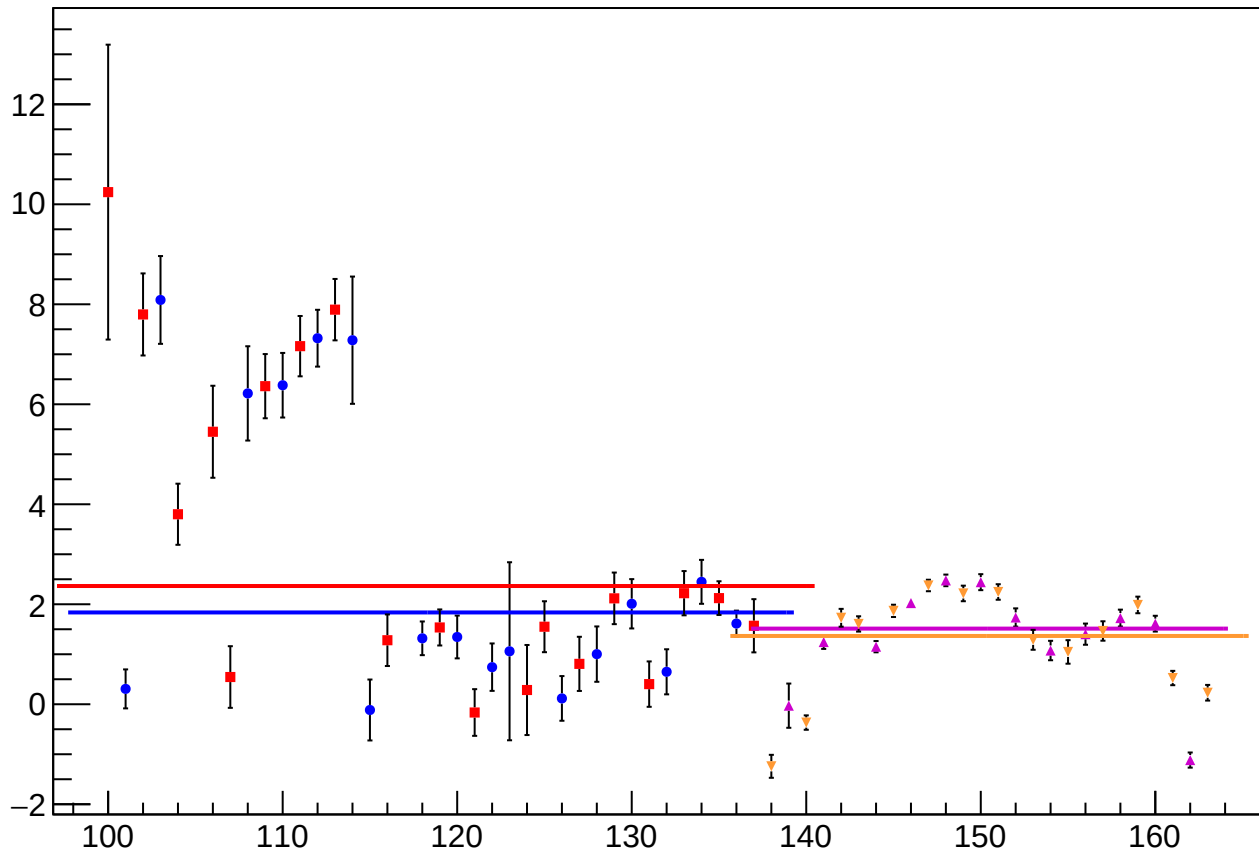
Left In: 5.352+/-0.062  $\chi^2/\text{NDF}$ :806.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 5.631+/-0.043  $\chi^2/\text{NDF}$ : 2233.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 1.836 $\pm$ 0.116  $\chi^2$ /NDF: 294.9/16

Left Out: 1.366 $\pm$ 0.042  $\chi^2$ /NDF: 538.3/13

Right Out: 2.365 $\pm$ 0.123  $\chi^2$ /NDF: 336.4/18

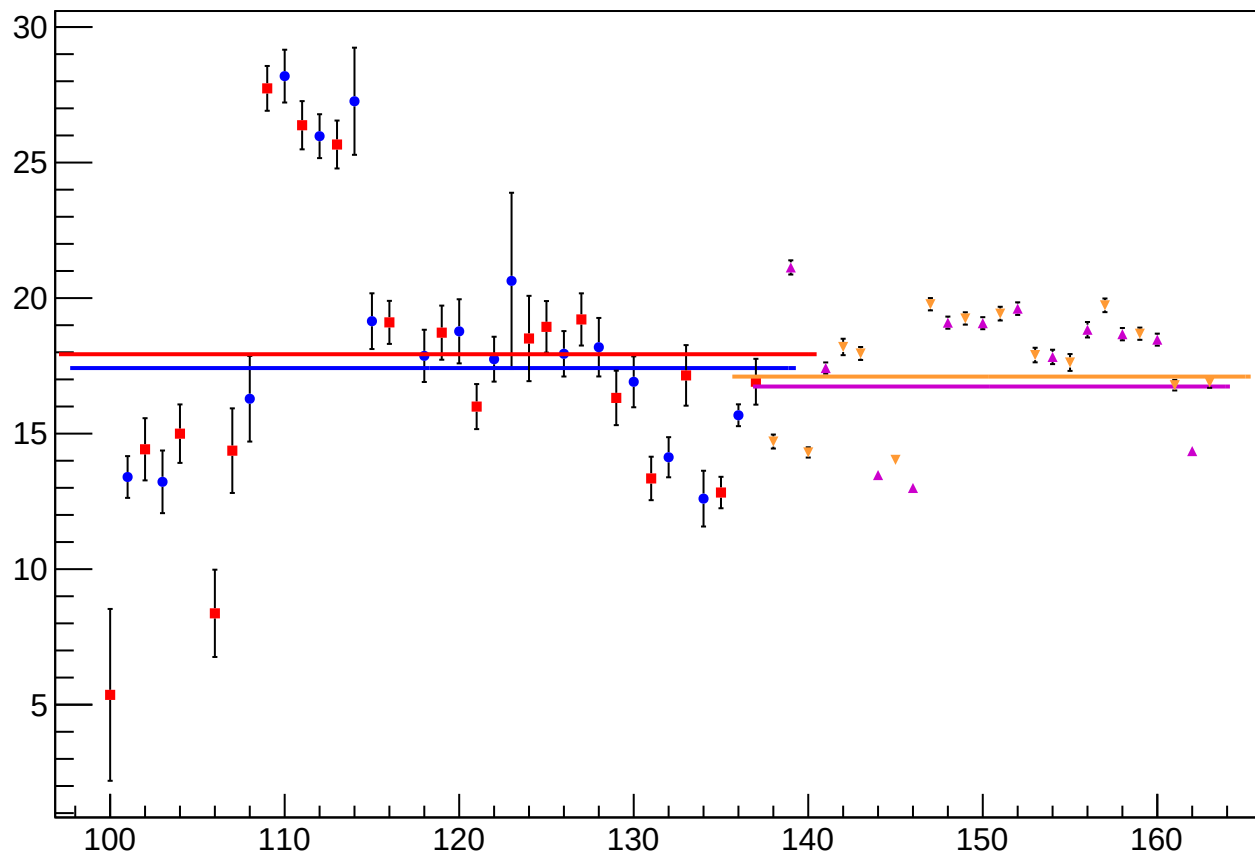
Left In: 1.513 $\pm$ 0.043  $\chi^2$ /NDF: 466.8/11

+ sign 1.421 $\pm$ 0.040  $\chi^2$ /NDF: 847.7/30

All: 1.511 $\pm$ 0.028  $\chi^2$ /NDF: 1704.5/61

- sign 1.605 $\pm$ 0.040  $\chi^2$ /NDF: 846.3/30

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $17.418 \pm 0.212$   $\chi^2/\text{NDF}$ : 366.8/16

Left Out:  $17.104 \pm 0.060$   $\chi^2/\text{NDF}$ : 1174.8/13

Right Out:  $17.929 \pm 0.219$   $\chi^2/\text{NDF}$ : 506.3/18

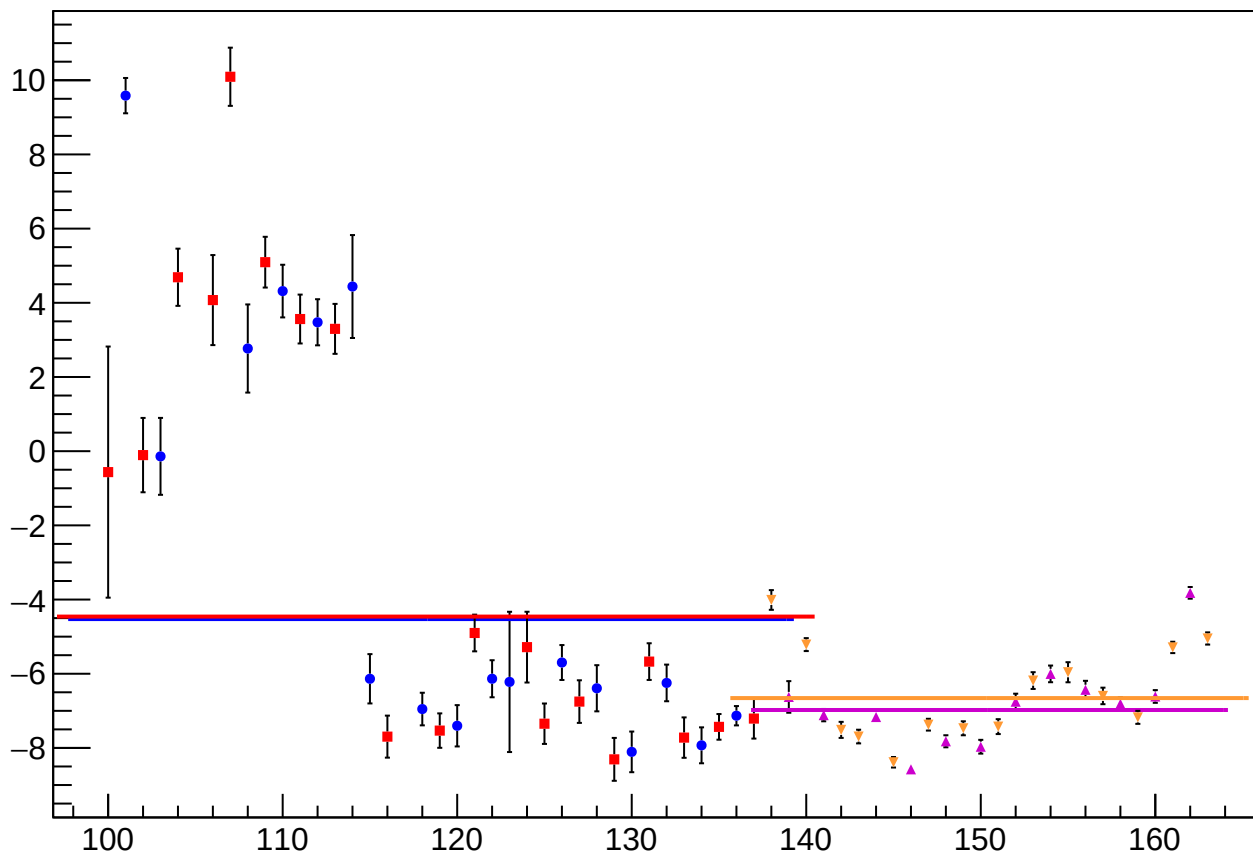
Left In:  $16.737 \pm 0.061$   $\chi^2/\text{NDF}$ : 1994.8/11

+ sign  $17.128 \pm 0.058$   $\chi^2/\text{NDF}$ : 1543.7/30

All:  $16.977 \pm 0.041$   $\chi^2/\text{NDF}$ : 4085.9/61

- sign  $16.823 \pm 0.059$   $\chi^2/\text{NDF}$ : 2528.6/30

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-4.526 \pm 0.130$   $\chi^2/\text{NDF}$ : 1590.2/16

Left Out:  $-6.656 \pm 0.050$   $\chi^2/\text{NDF}$ : 611.3/13

Right Out:  $-4.459 \pm 0.137$   $\chi^2/\text{NDF}$ : 1338.9/18

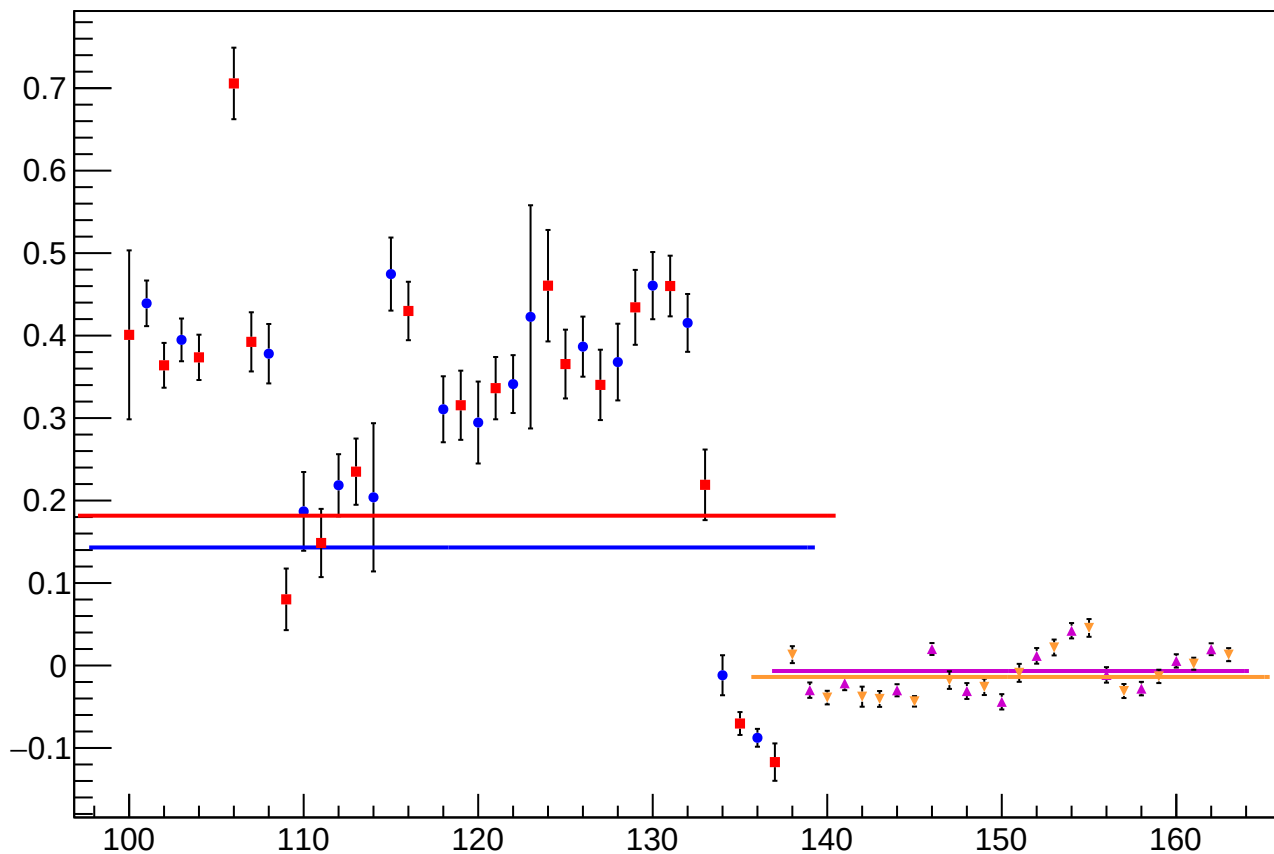
Left In:  $-6.977 \pm 0.050$   $\chi^2/\text{NDF}$ : 655.9/11

+ sign  $-6.383 \pm 0.046$   $\chi^2/\text{NDF}$ : 2437.3/30

All:  $-6.527 \pm 0.033$   $\chi^2/\text{NDF}$ : 4749.5/61

- sign  $-6.677 \pm 0.047$   $\chi^2/\text{NDF}$ : 2292.6/30

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 0.143 $\pm$ 0.007  $\chi^2$ /NDF: 1060.4/16

Left Out: -0.014 $\pm$ 0.002  $\chi^2$ /NDF: 116.1/13

Right Out: 0.182 $\pm$ 0.007  $\chi^2$ /NDF: 1007.8/18

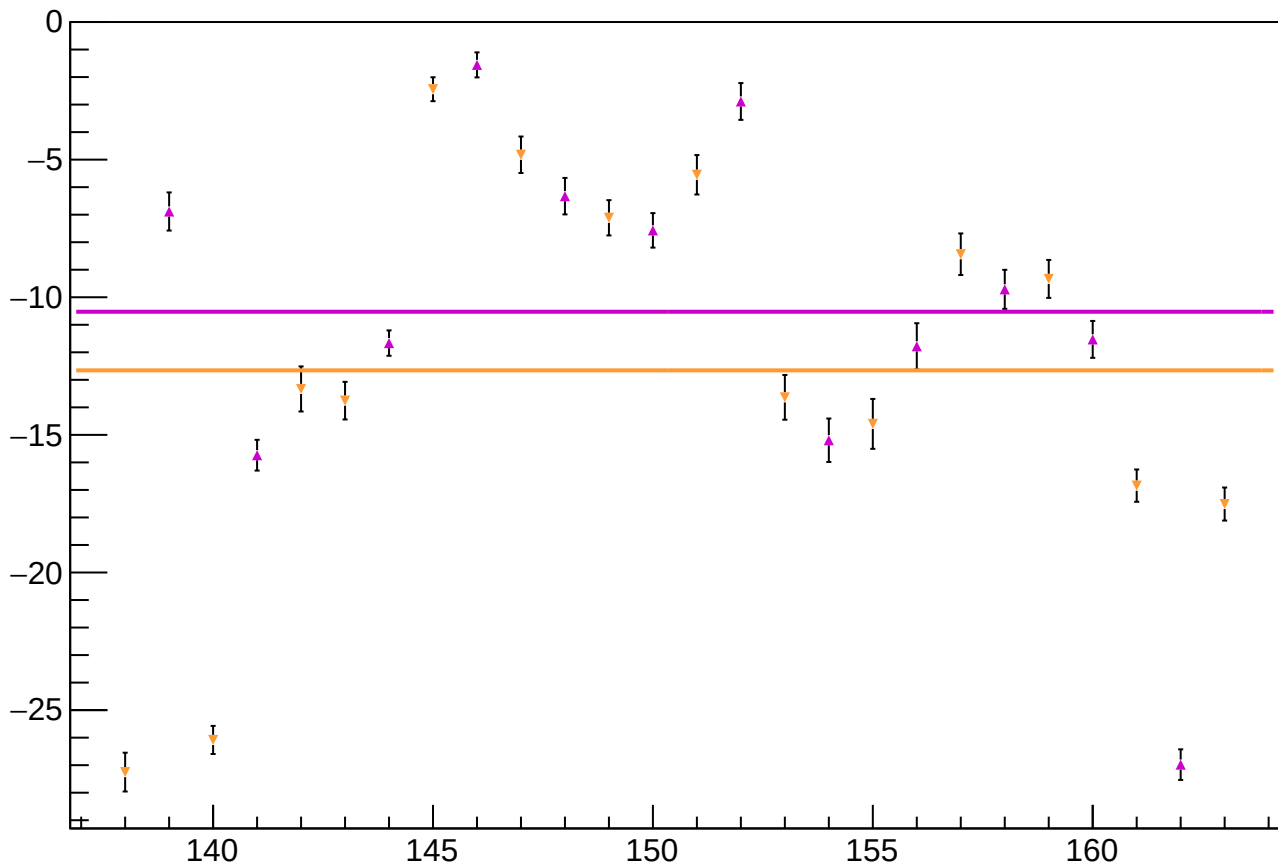
Left In: -0.007 $\pm$ 0.002  $\chi^2$ /NDF: 109.8/11

+ sign 0.002 $\pm$ 0.002  $\chi^2$ /NDF: 1621.8/30

All: 0.007 $\pm$ 0.002  $\chi^2$ /NDF: 3334.9/61

- sign 0.012 $\pm$ 0.002  $\chi^2$ /NDF: 1704.2/30

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -12.656+/-0.172  $\chi^2/\text{NDF}$ : 2167.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

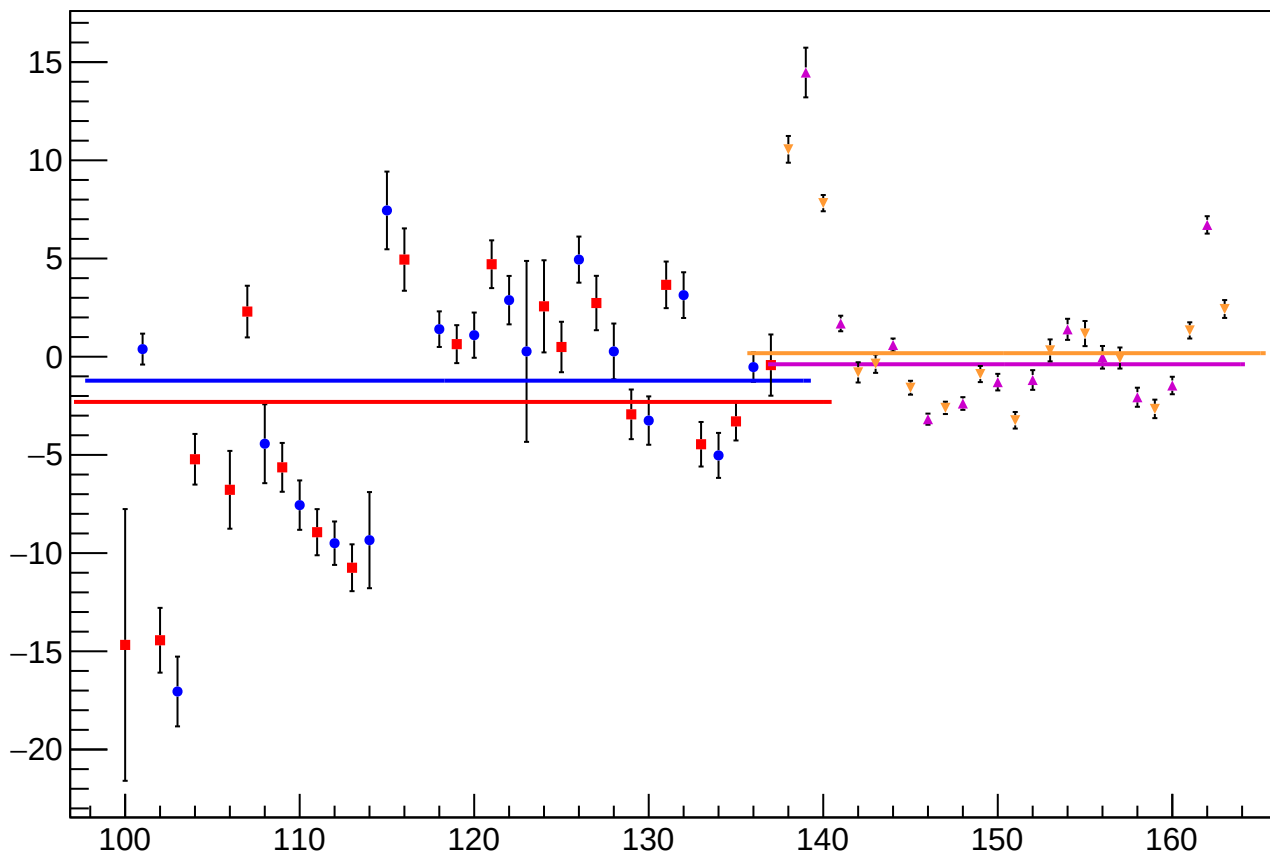
Left In: -10.526+/-0.176  $\chi^2/\text{NDF}$ : 1620.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -11.612+/-0.123  $\chi^2/\text{NDF}$ : 3862.4/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-1.220 \pm 0.290$   $\chi^2/\text{NDF}$ : 278.6/16

Left Out:  $0.180 \pm 0.119$   $\chi^2/\text{NDF}$ : 824.3/13

Right Out:  $-2.302 \pm 0.302$   $\chi^2/\text{NDF}$ : 286.2/18

Left In:  $-0.384 \pm 0.121$   $\chi^2/\text{NDF}$ : 603.5/11

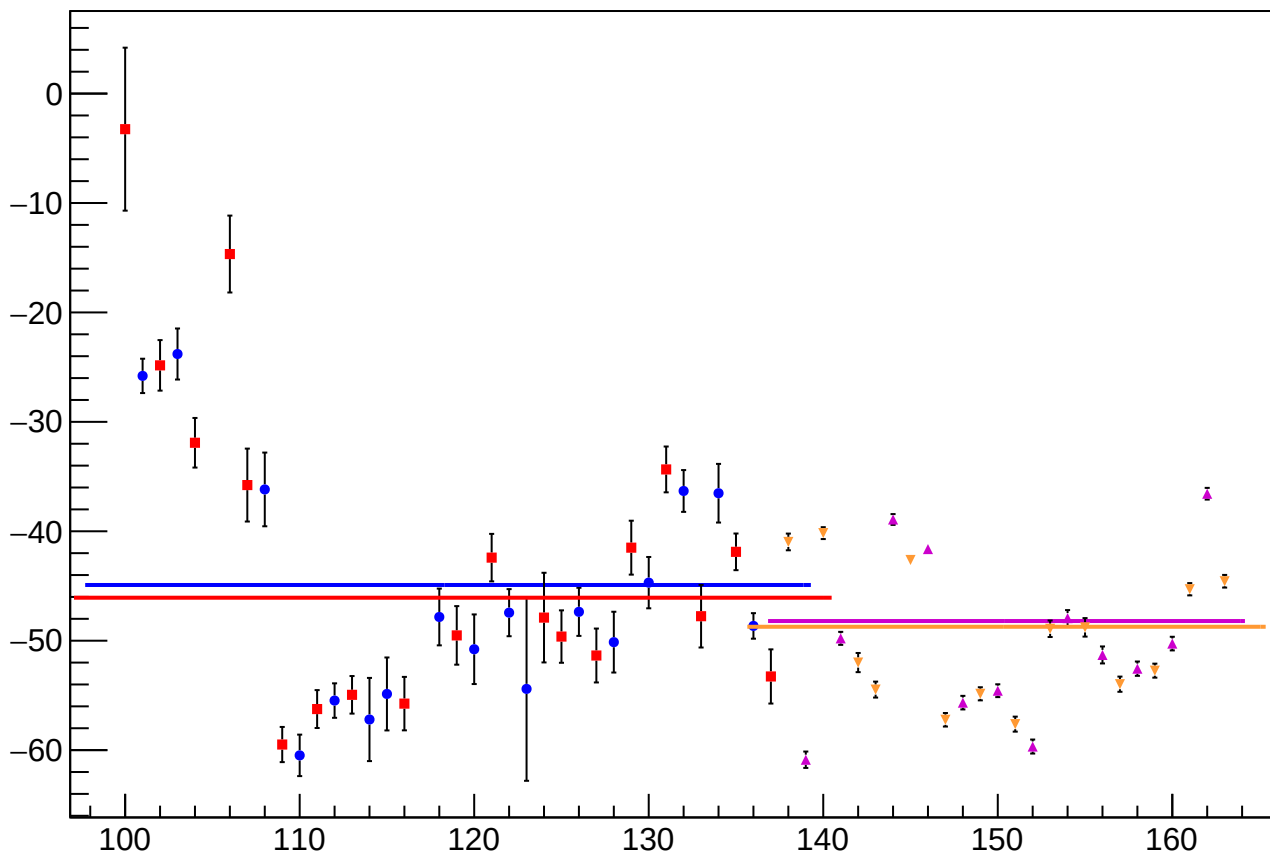
+ sign  $-0.023 \pm 0.110$   $\chi^2/\text{NDF}$ : 1122.8/30

All:  $-0.330 \pm 0.079$   $\chi^2/\text{NDF}$ : 2063.0/61

- sign  $-0.647 \pm 0.112$   $\chi^2/\text{NDF}$ : 924.4/30



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $-44.908 \pm 0.523$   $\chi^2/\text{NDF}$ : 421.2/16

Left Out:  $-48.726 \pm 0.171$   $\chi^2/\text{NDF}$ : 1249.6/13

Right Out:  $-46.071 \pm 0.528$   $\chi^2/\text{NDF}$ : 454.0/18

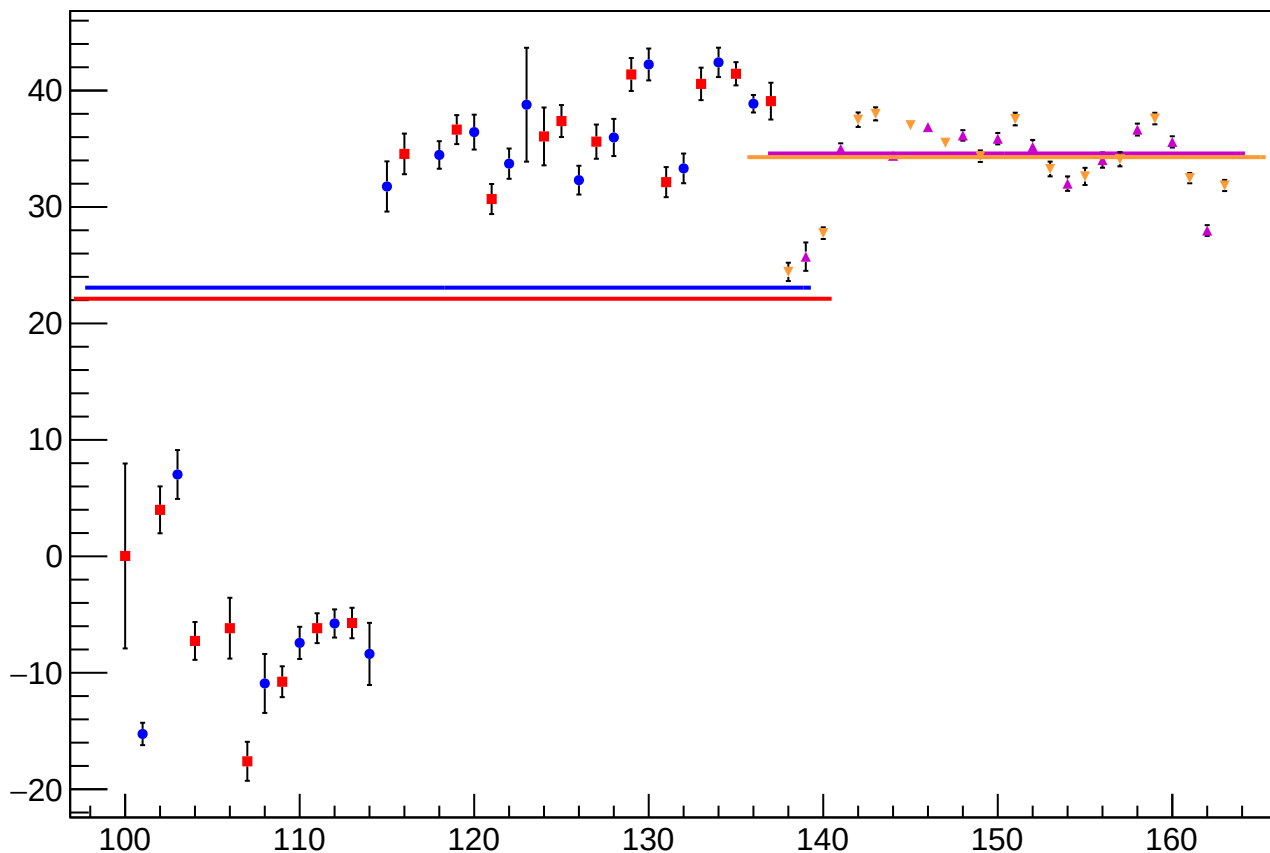
Left In:  $-48.202 \pm 0.172$   $\chi^2/\text{NDF}$ : 2001.0/11

+ sign  $-48.358 \pm 0.162$   $\chi^2/\text{NDF}$ : 1719.0/30

All:  $-48.180 \pm 0.115$   $\chi^2/\text{NDF}$ : 4191.2/61

- sign  $-47.998 \pm 0.164$   $\chi^2/\text{NDF}$ : 2469.7/30

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 23.073 $\pm$ 0.326  $\chi^2$ /NDF: 4346.0/16

Left Out: 34.280 $\pm$ 0.141  $\chi^2$ /NDF: 580.8/13

Right Out: 22.122 $\pm$ 0.340  $\chi^2$ /NDF: 4034.4/18

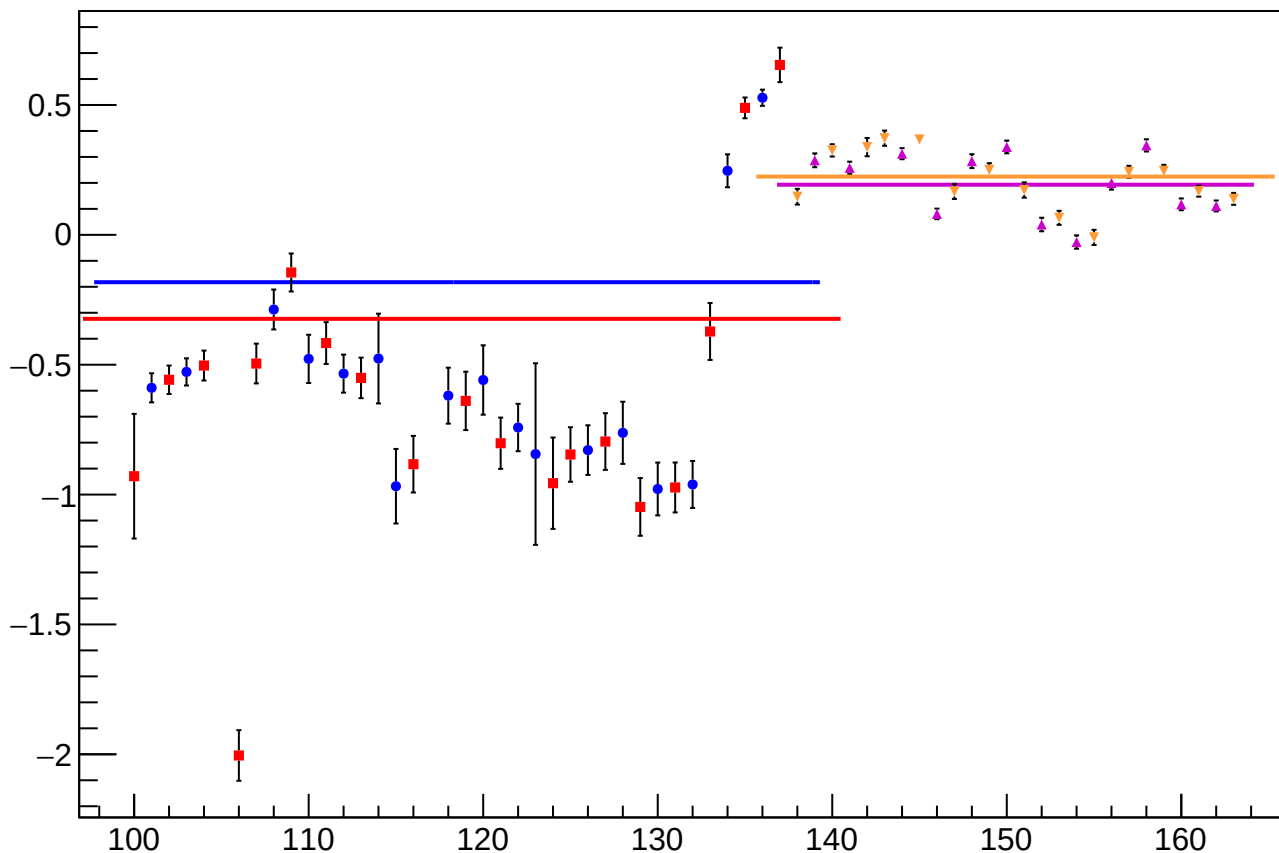
Left In: 34.595 $\pm$ 0.143  $\chi^2$ /NDF: 357.8/11

+ sign 32.524 $\pm$ 0.129  $\chi^2$ /NDF: 5923.4/30

All: 32.624 $\pm$ 0.092  $\chi^2$ /NDF: 11462.0/61

- sign 32.728 $\pm$ 0.131  $\chi^2$ /NDF: 5537.4/30

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -0.182 $\pm$ 0.018  $\chi^2$ /NDF: 998.1/16

Left Out: 0.224 $\pm$ 0.007  $\chi^2$ /NDF:252.5/13

Right Out: -0.323 $\pm$ 0.018  $\chi^2$ /NDF: 1184.5/18

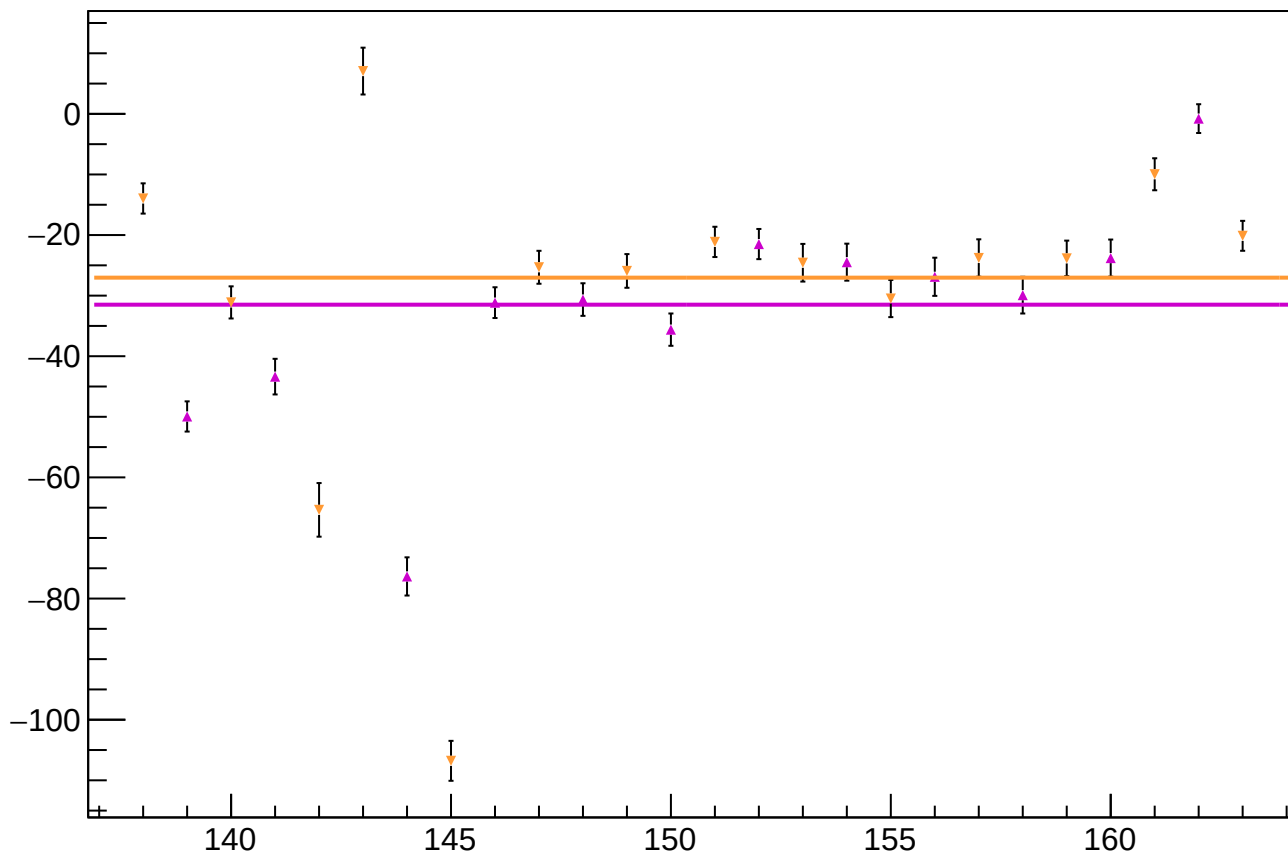
Left In: 0.193 $\pm$ 0.007  $\chi^2$ /NDF:303.9/11

+ sign 0.173 $\pm$ 0.006  $\chi^2$ /NDF: 1710.8/30

All: 0.151 $\pm$ 0.004  $\chi^2$ /NDF: 3931.6/61

- sign 0.129 $\pm$ 0.006  $\chi^2$ /NDF: 2196.3/30

# reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -27.033+/-0.773  $\chi^2/\text{NDF}$ :827.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

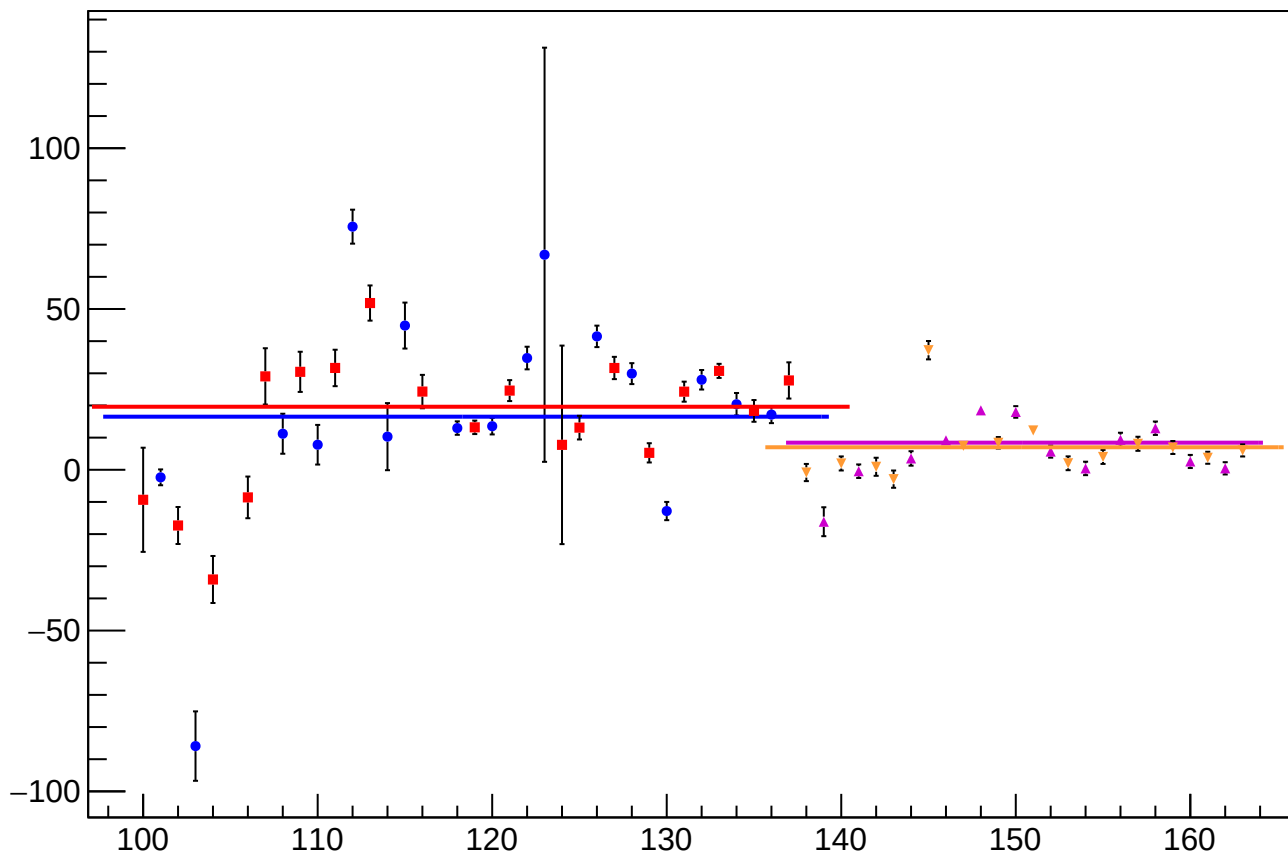
Left In: -31.495+/-0.797  $\chi^2/\text{NDF}$ :473.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -29.194+/-0.555  $\chi^2/\text{NDF}$ : 1317.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug



Right In: 16.512 $\pm$ 0.847  $\chi^2$ /NDF: 519.6/16

Left Out: 7.003 $\pm$ 0.527  $\chi^2$ /NDF: 169.0/13

Right Out: 19.604 $\pm$ 0.898  $\chi^2$ /NDF: 242.0/18

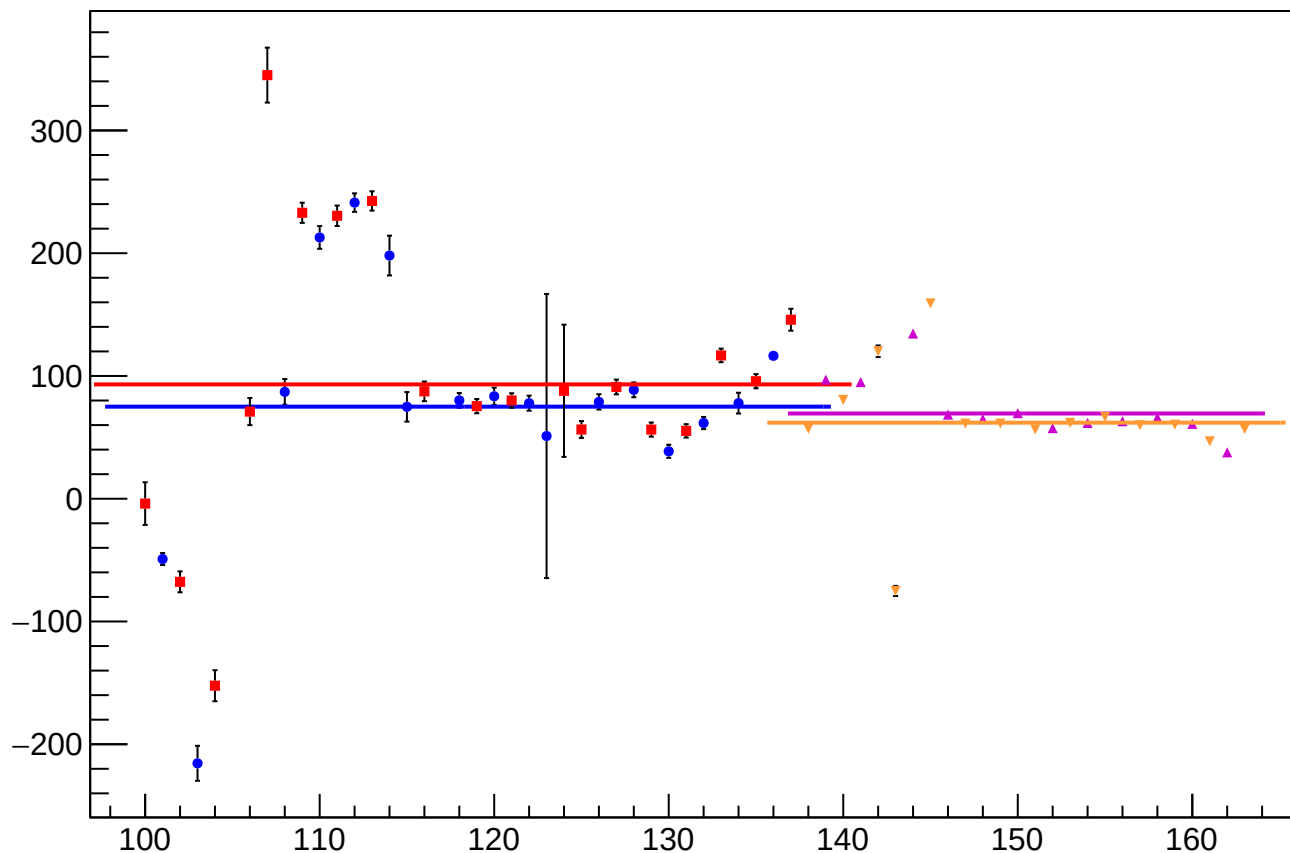
Left In: 8.432 $\pm$ 0.552  $\chi^2$ /NDF: 187.0/11

+ sign 9.656 $\pm$ 0.448  $\chi^2$ /NDF: 779.4/30

All: 10.529 $\pm$ 0.324  $\chi^2$ /NDF: 1328.7/61

- sign 11.492 $\pm$ 0.470  $\chi^2$ /NDF: 541.3/30

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug



Right In: 75.009+/-1.636  $\chi^2/\text{NDF}$ : 1999.3/16

Left Out: 61.975+/-0.753  $\chi^2/\text{NDF}$ : 2156.2/13

Right Out: 93.140+/-1.711  $\chi^2/\text{NDF}$ : 2002.3/18

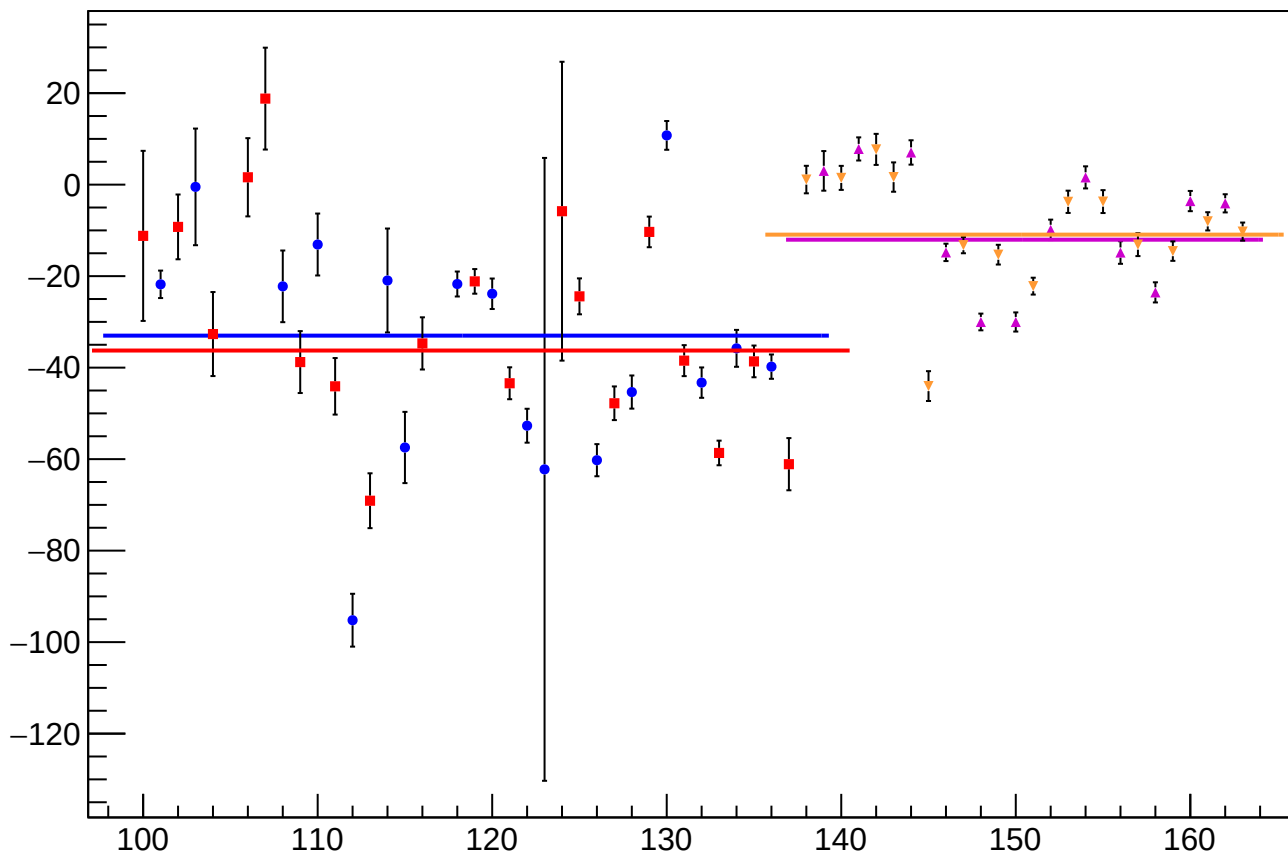
Left In: 69.439+/-0.773  $\chi^2/\text{NDF}$ : 786.8/11

+ sign 64.255+/-0.684  $\chi^2/\text{NDF}$ : 4207.9/30

All: 68.722+/-0.491  $\chi^2/\text{NDF}$ : 7244.2/61

- sign 73.453+/-0.704  $\chi^2/\text{NDF}$ : 2948.5/30

# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.005 \pm 0.972$   $\chi^2/\text{NDF}$ : 493.1/16

Left Out:  $-10.928 \pm 0.623$   $\chi^2/\text{NDF}$ : 252.9/13

Right Out:  $-36.260 \pm 1.025$   $\chi^2/\text{NDF}$ : 297.1/18

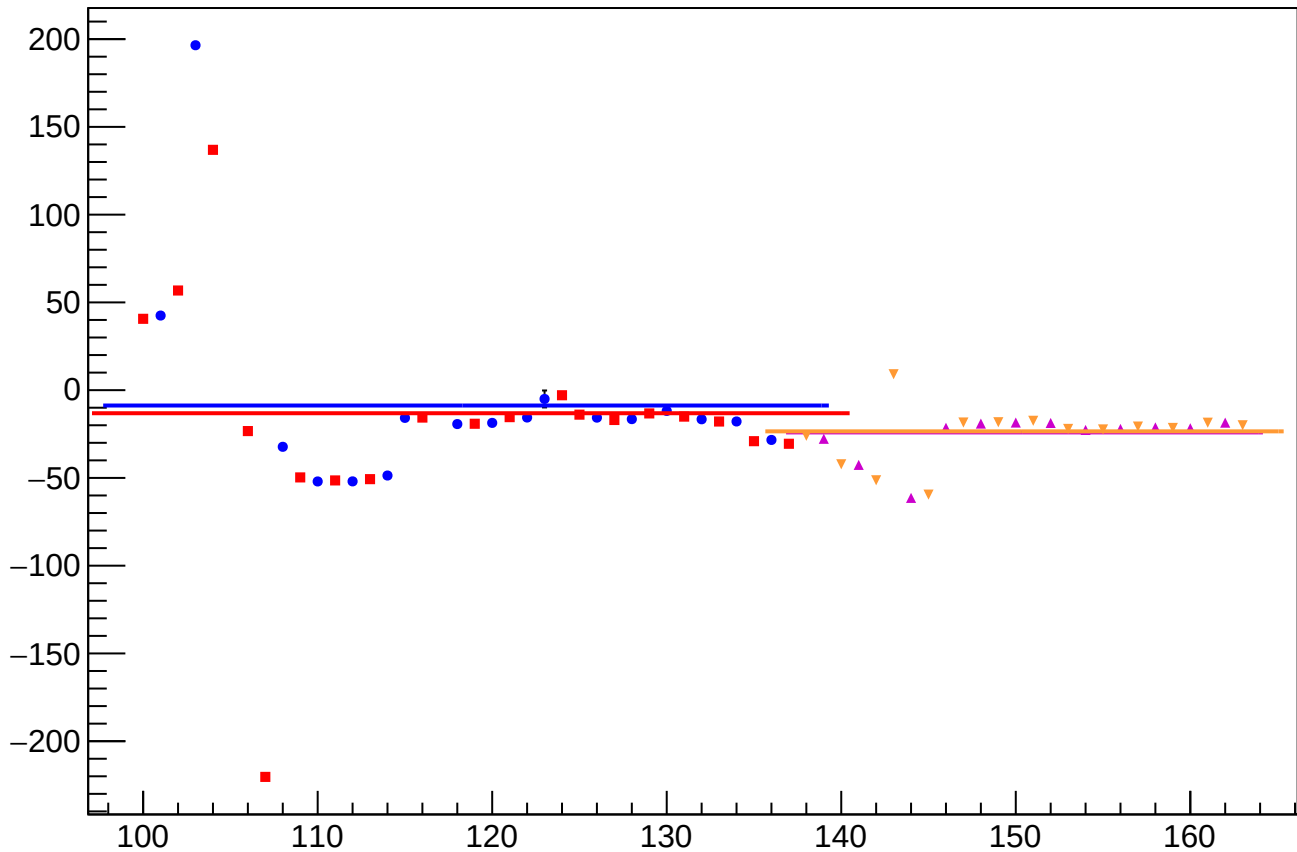
Left In:  $-12.035 \pm 0.651$   $\chi^2/\text{NDF}$ : 389.7/11

+ sign  $-17.360 \pm 0.525$   $\chi^2/\text{NDF}$ : 1111.7/30

All:  $-18.142 \pm 0.380$   $\chi^2/\text{NDF}$ : 2200.9/61

- sign  $-19.002 \pm 0.550$   $\chi^2/\text{NDF}$ : 1084.5/30

# reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug



Right In:  $-8.751 \pm 0.059$   $\chi^2/\text{NDF}: 576012.4/16$

Left Out:  $-23.470 \pm 0.029$   $\chi^2/\text{NDF}: 168216.3/13$

Right Out:  $-13.143 \pm 0.062$   $\chi^2/\text{NDF}: 558628.0/18$

Left In:  $-24.078 \pm 0.030$   $\chi^2/\text{NDF}: 101207.1/11$

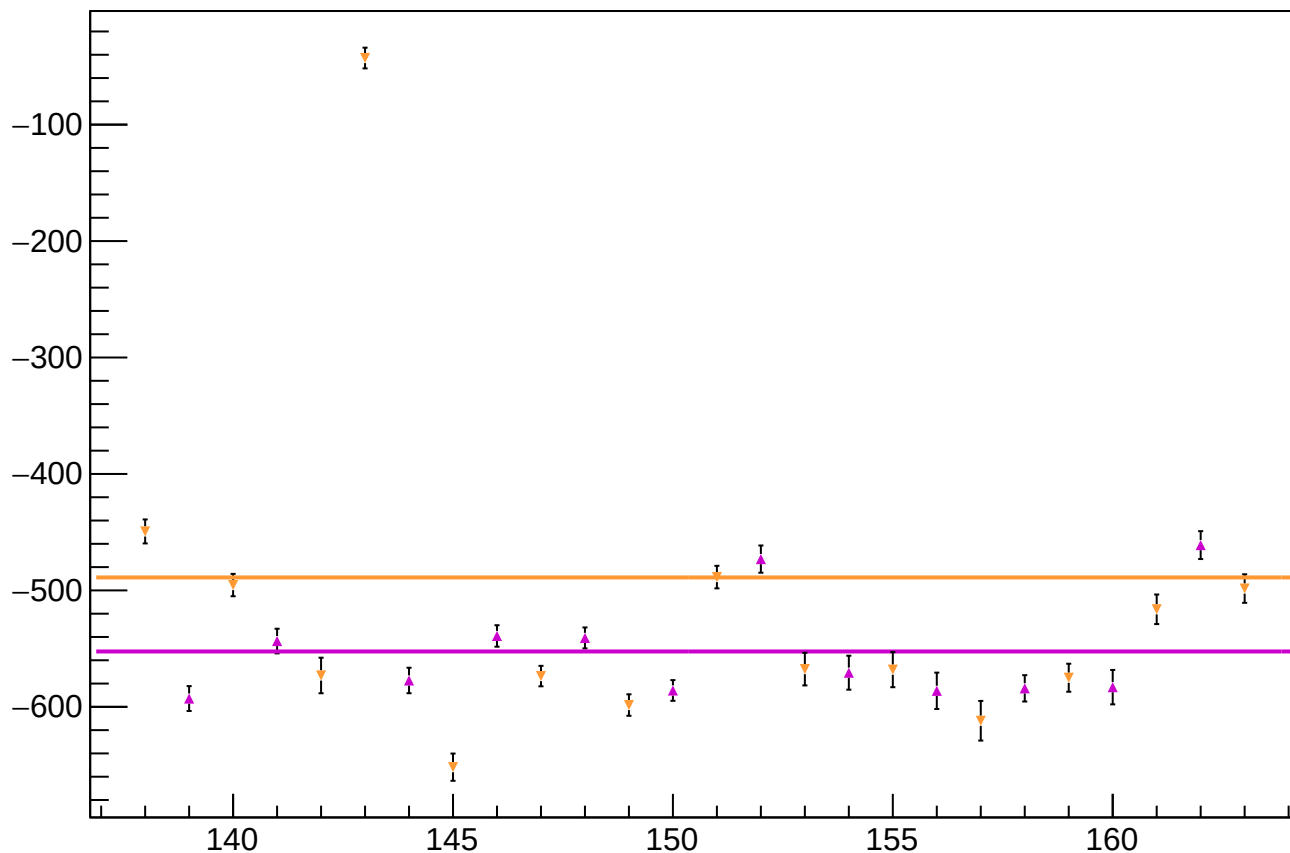
+ sign  $-20.520 \pm 0.026$   $\chi^2/\text{NDF}: 794322.7/30$

All:  $-21.231 \pm 0.019$   $\chi^2/\text{NDF}: 1481018.8/61$

- sign  $-21.981 \pm 0.027$   $\chi^2/\text{NDF}: 685197.4/30$



# reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -488.877+/-2.980  $\chi^2/\text{NDF}$ : 3153.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

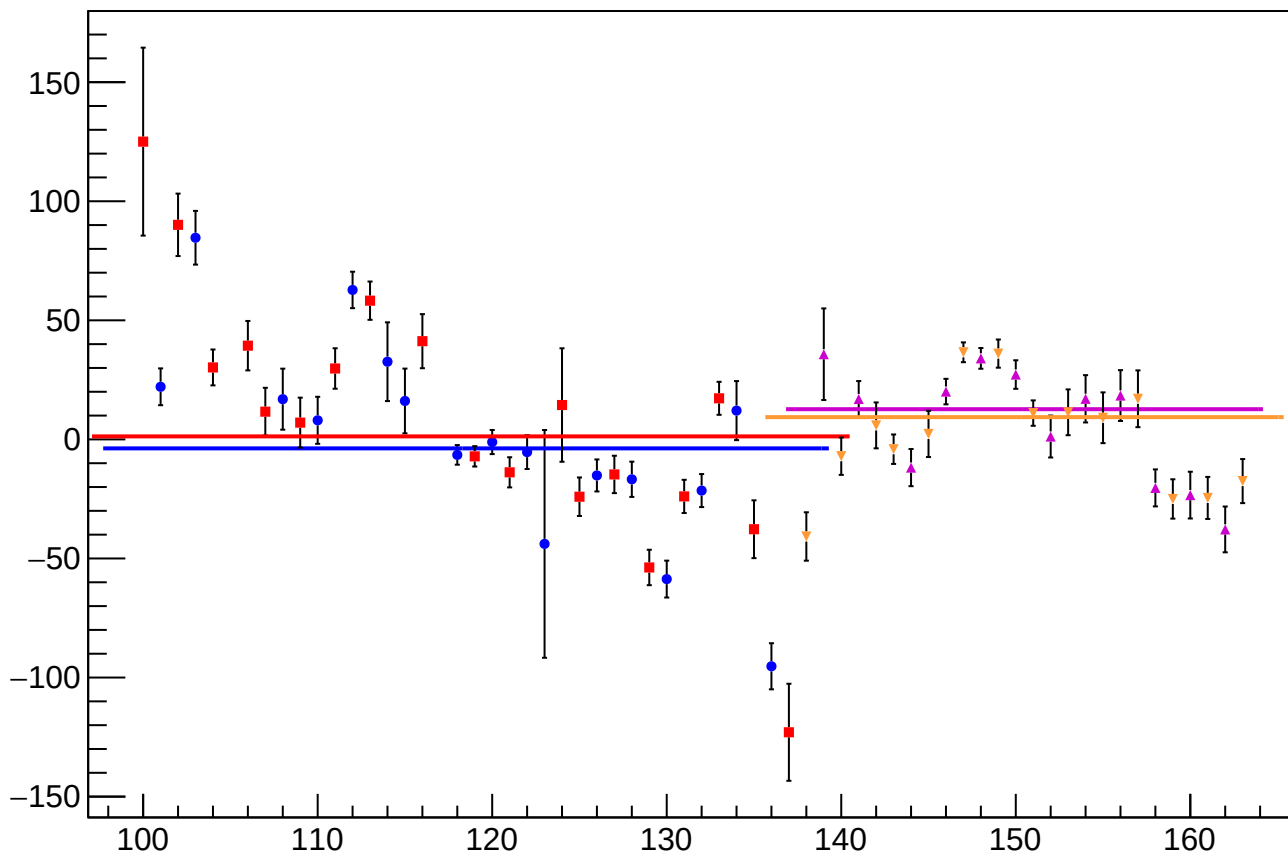
Left In: -552.444+/-3.189  $\chi^2/\text{NDF}$ : 160.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -518.508+/-2.177  $\chi^2/\text{NDF}$ : 3526.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-3.773 \pm 1.889$   $\chi^2/\text{NDF}$ : 314.3/16

Left Out:  $9.352 \pm 1.959$   $\chi^2/\text{NDF}$ : 138.3/13

Right Out:  $1.265 \pm 1.920$   $\chi^2/\text{NDF}$ : 303.7/18

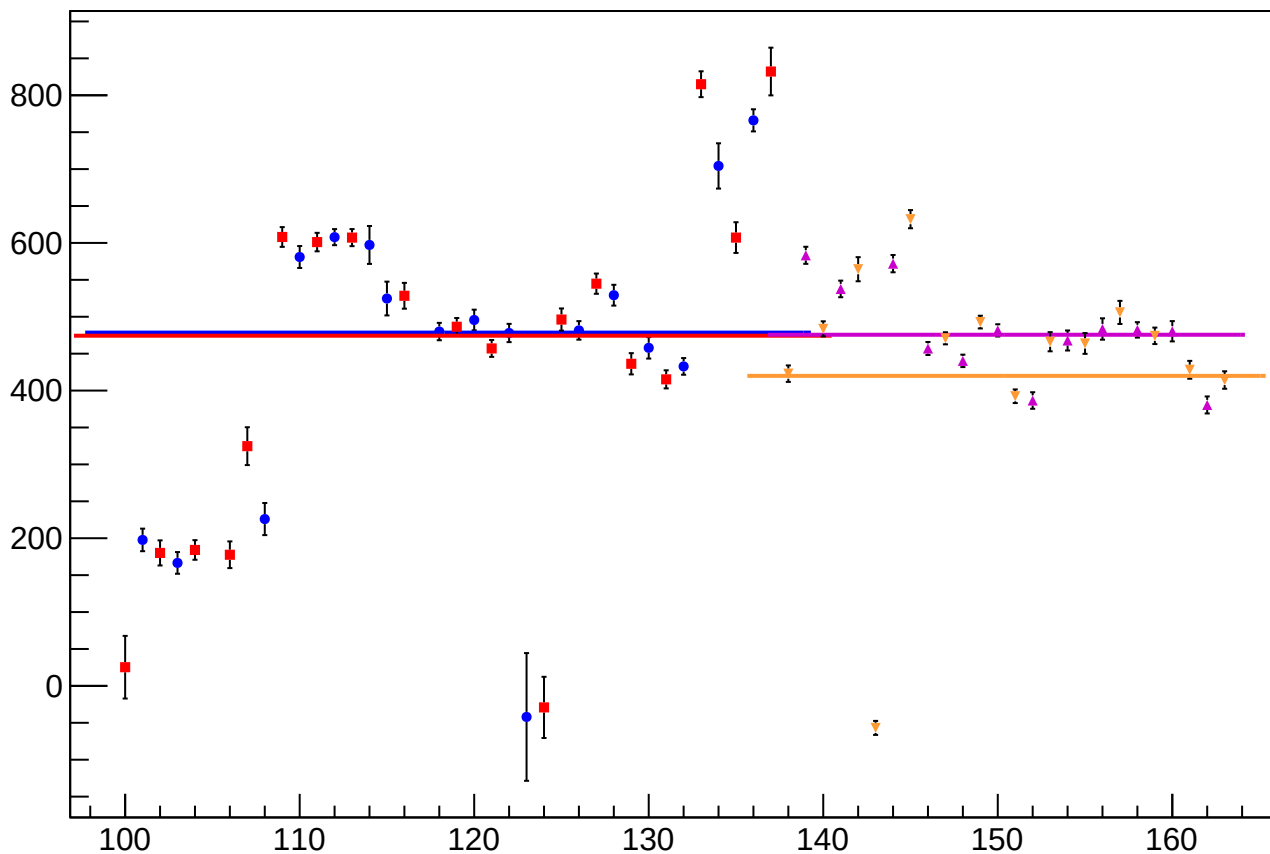
Left In:  $12.686 \pm 2.124$   $\chi^2/\text{NDF}$ : 104.8/11

+ sign  $2.550 \pm 1.359$   $\chi^2/\text{NDF}$ : 475.9/30

All:  $4.387 \pm 0.983$   $\chi^2/\text{NDF}$ : 904.2/61

- sign  $6.402 \pm 1.424$   $\chi^2/\text{NDF}$ : 424.5/30

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug



Right In: 478.526 $\pm$ 3.630  $\chi^2/\text{NDF}$ : 1629.0/16

Left Out: 419.942 $\pm$ 2.934  $\chi^2/\text{NDF}$ :3129.8/13

Right Out: 474.328 $\pm$ 3.533  $\chi^2/\text{NDF}$ : 2287.1/18

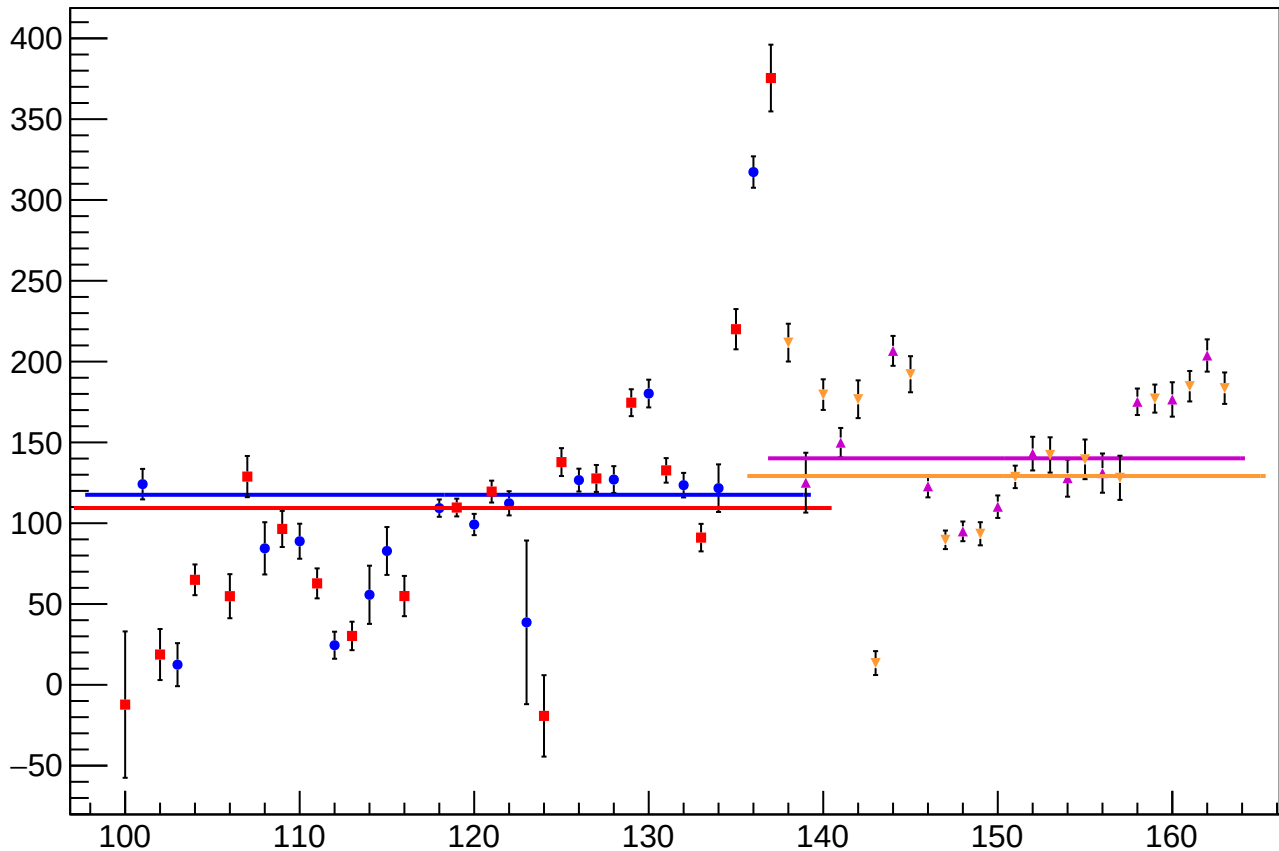
Left In: 475.609 $\pm$ 3.097  $\chi^2/\text{NDF}$ :339.7/11

+ sign 443.093 $\pm$ 2.282  $\chi^2/\text{NDF}$ : 4916.3/30

All: 458.749 $\pm$ 1.630  $\chi^2/\text{NDF}$ : 7639.2/61

- sign 475.053 $\pm$ 2.329  $\chi^2/\text{NDF}$ : 2626.8/30

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug



Right In:  $117.585 \pm 2.193$   $\chi^2/\text{NDF}: 706.9/16$

Left Out:  $129.200 \pm 2.369$   $\chi^2/\text{NDF}: 542.1/13$

Right Out:  $109.400 \pm 2.210$   $\chi^2/\text{NDF}: 571.2/18$

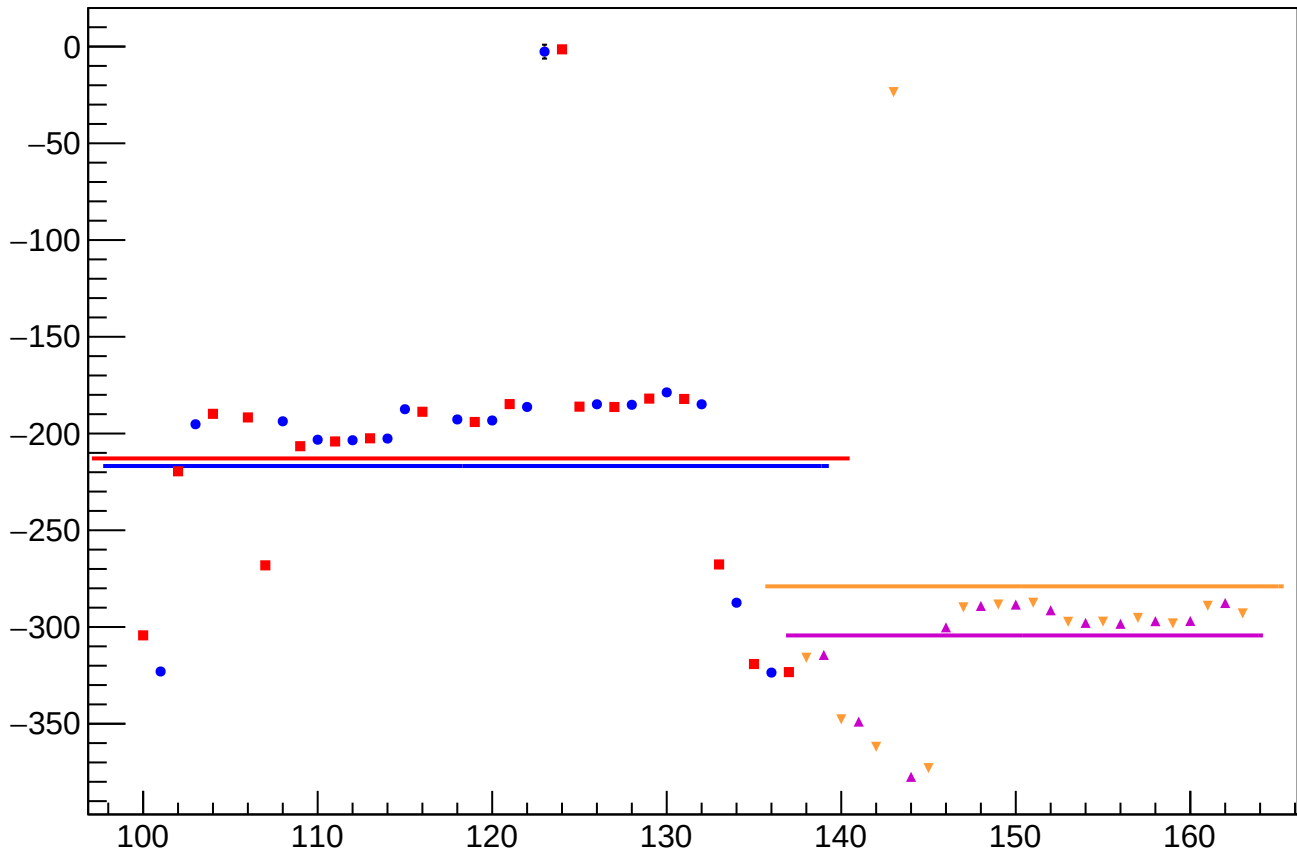
Left In:  $140.149 \pm 2.557$   $\chi^2/\text{NDF}: 205.6/11$

+ sign  $122.945 \pm 1.609$   $\chi^2/\text{NDF}: 1262.0/30$

All:  $122.752 \pm 1.159$   $\chi^2/\text{NDF}: 2121.6/61$

- sign  $122.544 \pm 1.672$   $\chi^2/\text{NDF}: 859.6/30$

# reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug



Right In:  $-216.796 \pm 0.136$   $\chi^2/\text{NDF}$ : 146976.1/16

Left Out:  $-278.989 \pm 0.118$   $\chi^2/\text{NDF}$ : 544963.8/13

Right Out:  $-212.869 \pm 0.130$   $\chi^2/\text{NDF}$ : 116393.6/18

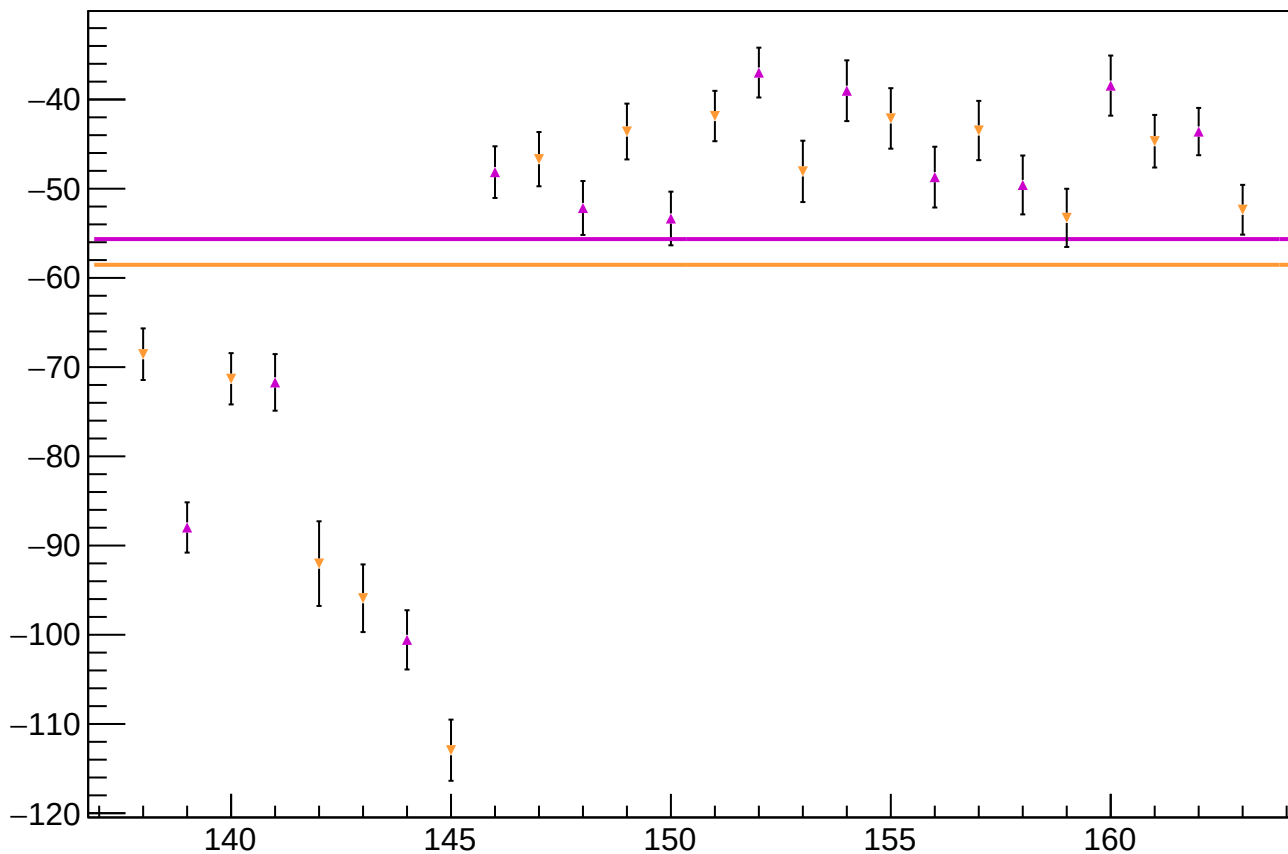
Left In:  $-304.358 \pm 0.123$   $\chi^2/\text{NDF}$ : 37585.3/11

+ sign  $-252.197 \pm 0.089$   $\chi^2/\text{NDF}$ : 811589.5/30

All:  $-256.665 \pm 0.063$   $\chi^2/\text{NDF}$ : 1231509.4/61

- sign  $-261.172 \pm 0.089$   $\chi^2/\text{NDF}$ : 414861.2/30

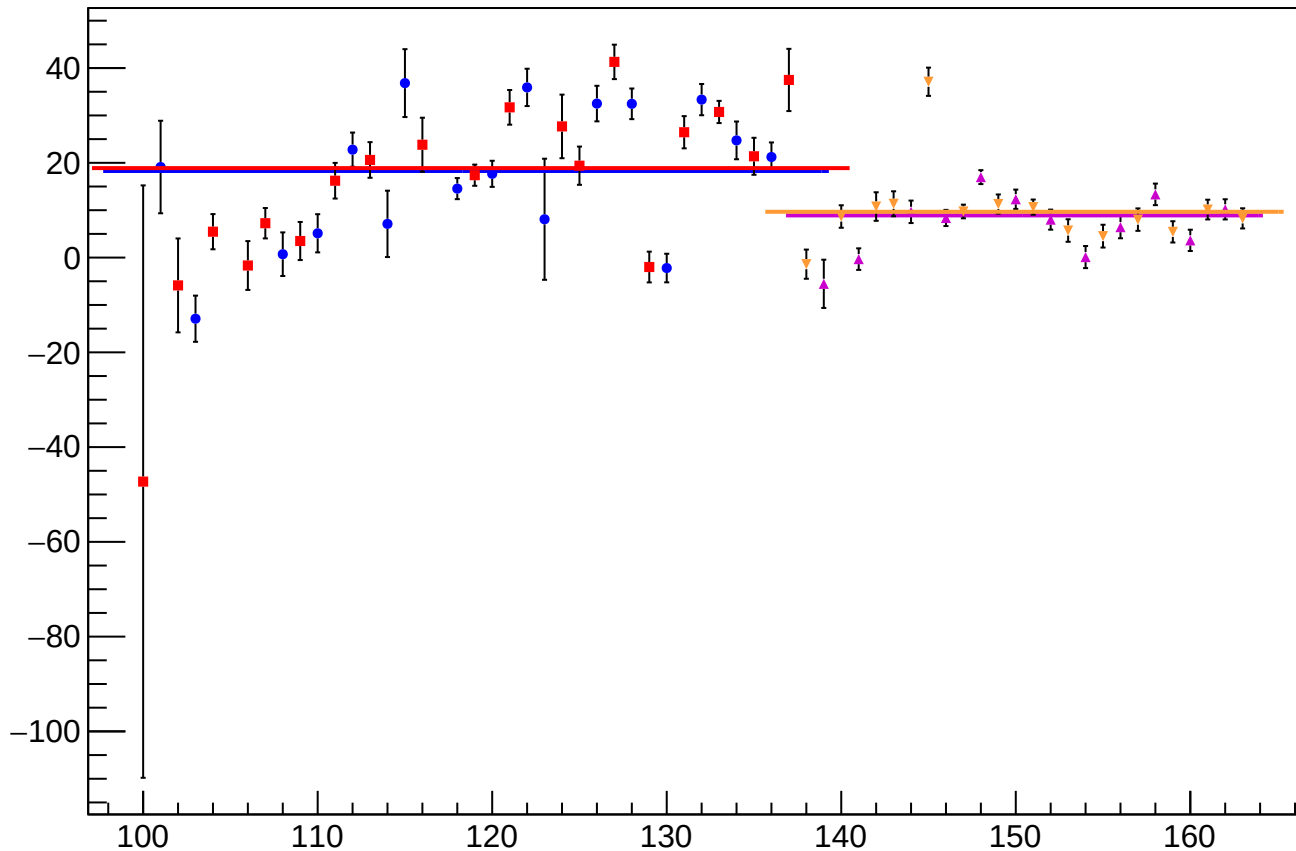
# reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.532+/-0.853  $\chi^2/\text{NDF}$ : 586.2/13  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -55.647+/-0.884  $\chi^2/\text{NDF}$ : 471.8/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 All: -57.142+/-0.614  $\chi^2/\text{NDF}$ : 1063.5/25  
 - sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug



Right In:  $18.279 \pm 0.906$   $\chi^2/\text{NDF}$ : 204.6/16

Left Out:  $9.668 \pm 0.583$   $\chi^2/\text{NDF}$ : 111.3/13

Right Out:  $18.882 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.4/18

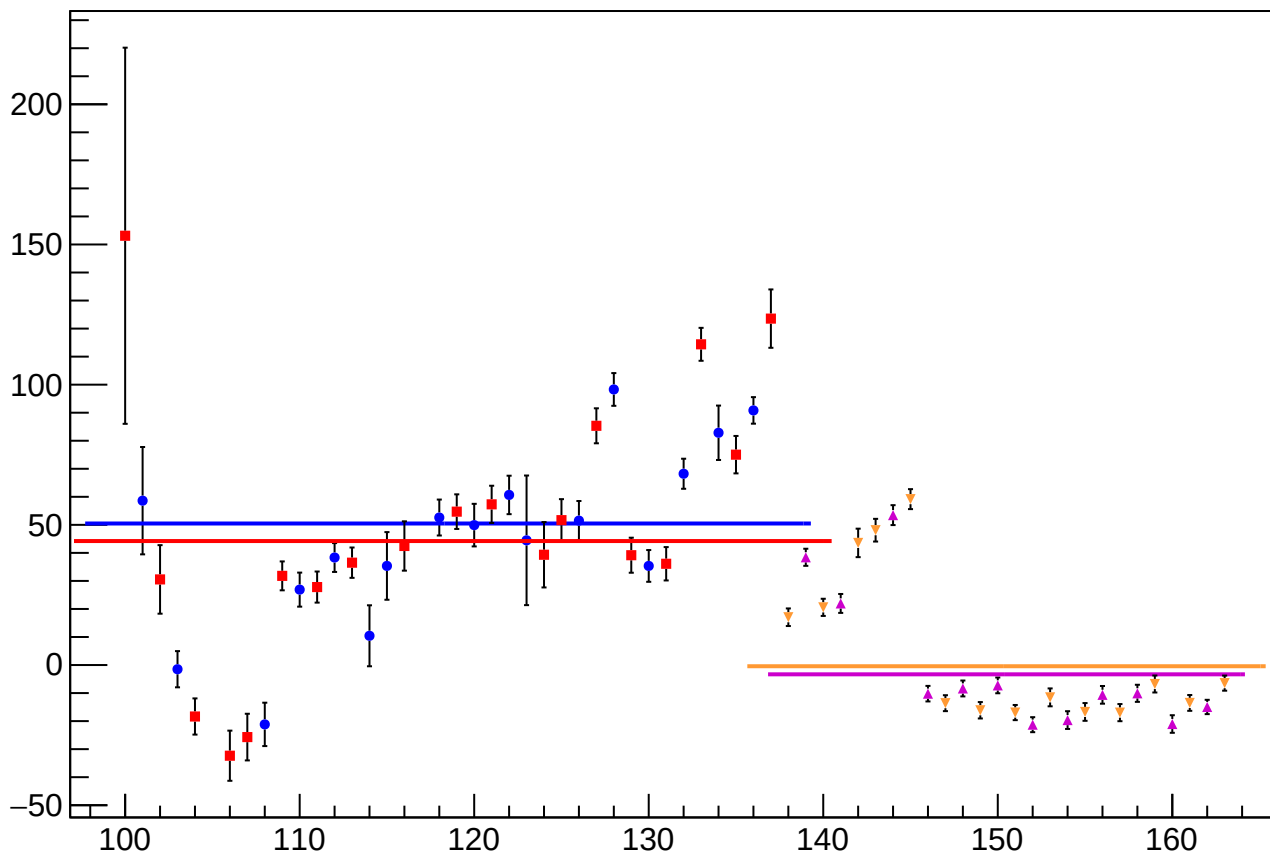
Left In:  $8.903 \pm 0.614$   $\chi^2/\text{NDF}$ : 82.9/11

+ sign  $12.190 \pm 0.490$   $\chi^2/\text{NDF}$ : 379.8/30

All:  $12.218 \pm 0.350$   $\chi^2/\text{NDF}$ : 749.8/61

- sign  $12.247 \pm 0.500$   $\chi^2/\text{NDF}$ : 370.0/30

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug



Right In: 50.482 $\pm$ 1.668  $\chi^2$ /NDF: 357.9/16

Left Out: -0.429 $\pm$ 0.833  $\chi^2$ /NDF: 763.5/13

Right Out: 44.222 $\pm$ 1.602  $\chi^2$ /NDF: 534.4/18

Left In: -3.313 $\pm$ 0.858  $\chi^2$ /NDF: 645.3/11

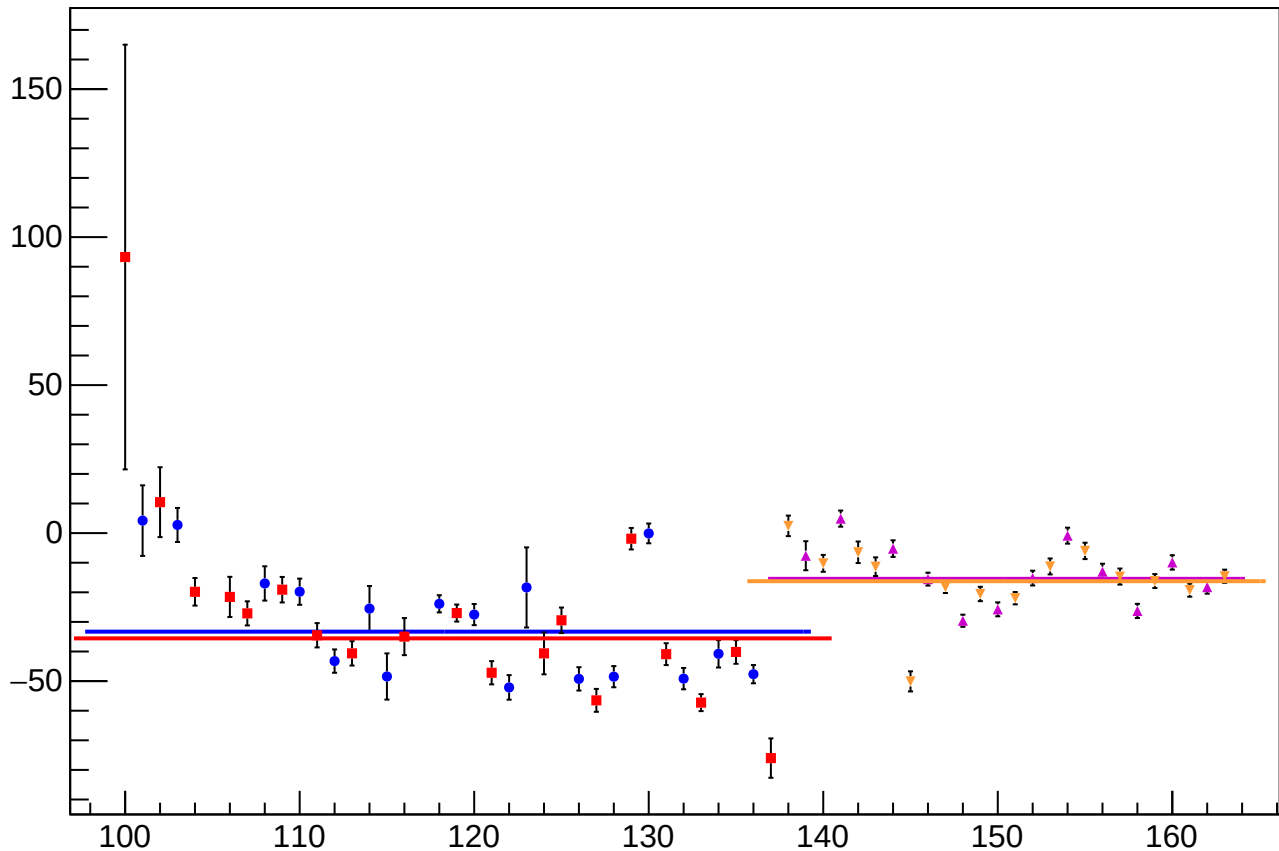
+ sign 9.726 $\pm$ 0.745  $\chi^2$ /NDF: 1867.2/30

All: 8.519 $\pm$ 0.531  $\chi^2$ /NDF: 3736.2/61

- sign 7.275 $\pm$ 0.756  $\chi^2$ /NDF: 1863.7/30



# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.292 \pm 1.033$   $\chi^2/\text{NDF}$ : 289.1/16

Left Out:  $-16.243 \pm 0.689$   $\chi^2/\text{NDF}$ : 174.0/13

Right Out:  $-35.566 \pm 0.992$   $\chi^2/\text{NDF}$ : 287.6/18

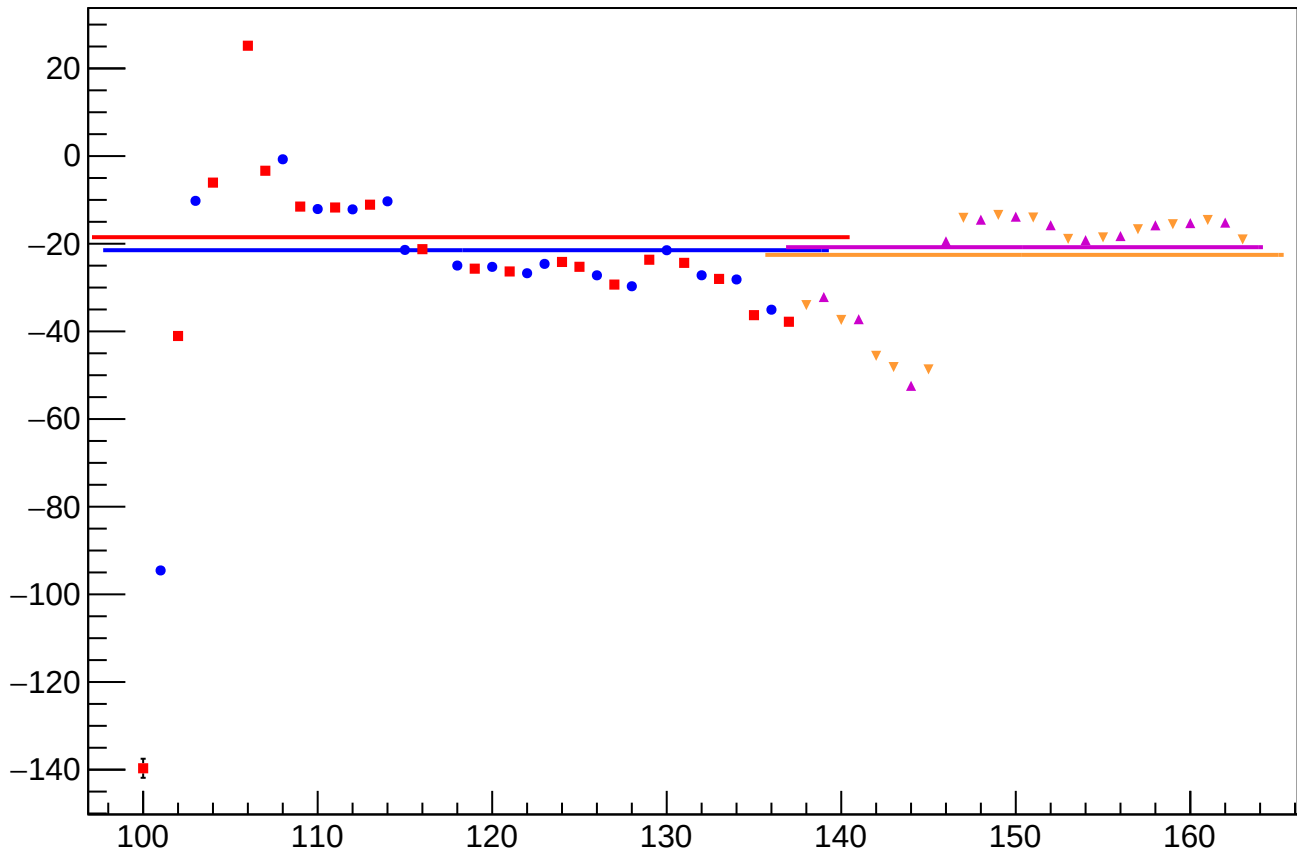
Left In:  $-15.448 \pm 0.723$   $\chi^2/\text{NDF}$ : 195.4/11

+ sign  $-21.490 \pm 0.573$   $\chi^2/\text{NDF}$ : 651.6/30

All:  $-21.947 \pm 0.409$   $\chi^2/\text{NDF}$ : 1404.4/61

- sign  $-22.422 \pm 0.584$   $\chi^2/\text{NDF}$ : 751.4/30

# reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug



Right In:  $-21.476 \pm 0.059$   $\chi^2/\text{NDF}$ : 49009.8/16

Left Out:  $-22.543 \pm 0.033$   $\chi^2/\text{NDF}$ : 124543.4/13

Right Out:  $-18.506 \pm 0.057$   $\chi^2/\text{NDF}$ : 80734.5/18

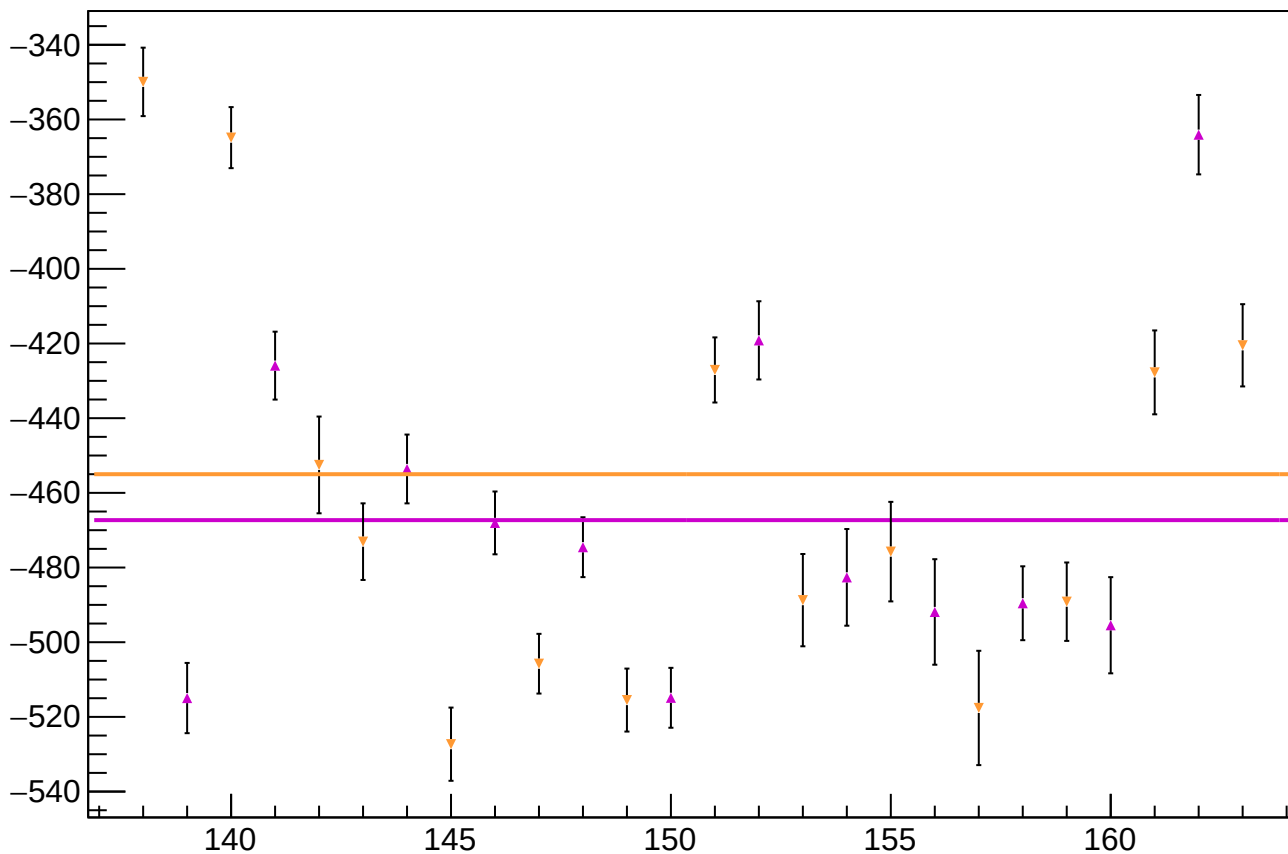
Left In:  $-20.787 \pm 0.033$   $\chi^2/\text{NDF}$ : 83946.9/11

+ sign  $-22.292 \pm 0.028$   $\chi^2/\text{NDF}$ : 173806.0/30

All:  $-21.266 \pm 0.020$   $\chi^2/\text{NDF}$ : 342312.4/61

- sign  $-20.210 \pm 0.029$   $\chi^2/\text{NDF}$ : 165862.8/30

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -455.002+/-2.699  $\chi^2/\text{NDF}$ : 465.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

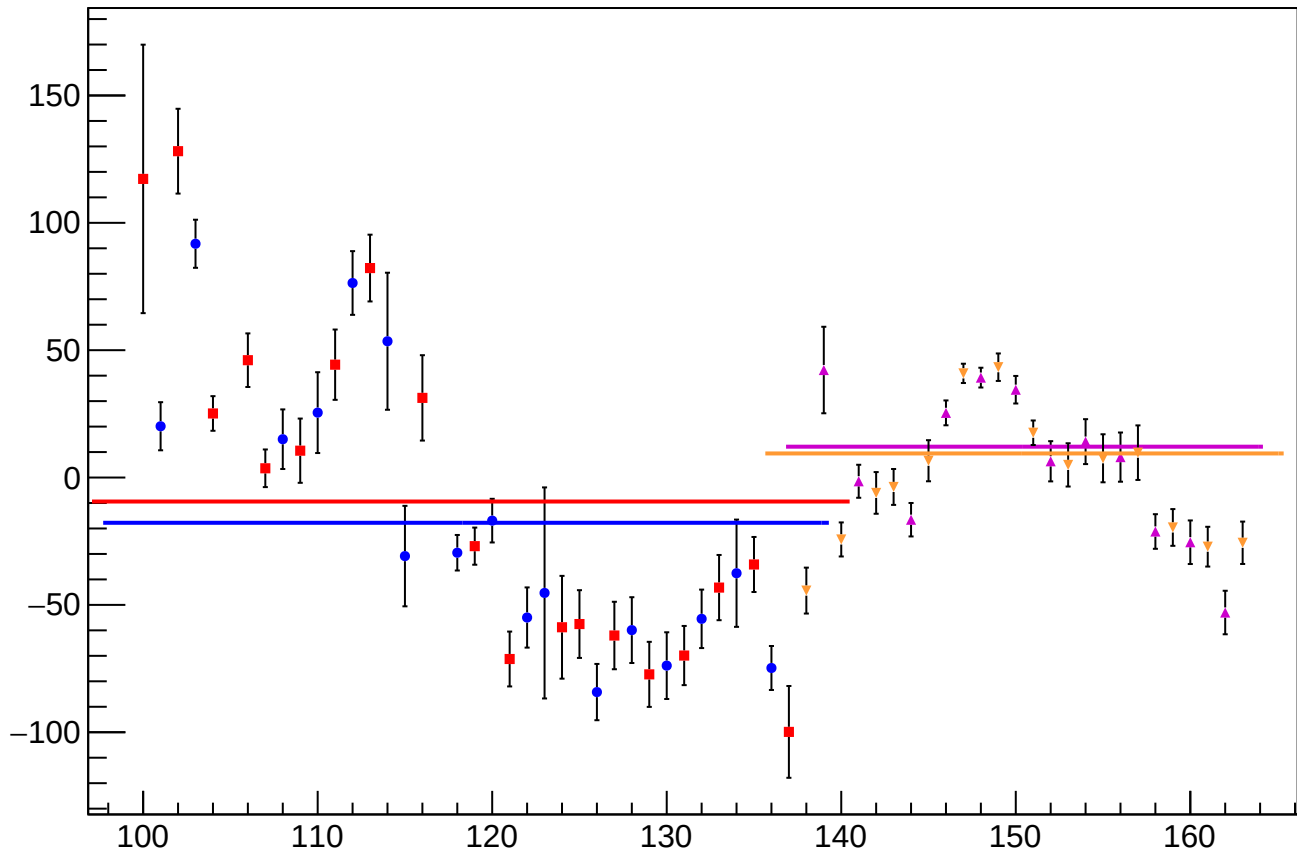
Left In: -467.303+/-2.822  $\chi^2/\text{NDF}$ : 214.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -460.879+/-1.951  $\chi^2/\text{NDF}$ : 689.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug



Right In:  $-17.765 \pm 2.781$   $\chi^2/\text{NDF}$ : 363.9/16

Left Out:  $9.458 \pm 1.778$   $\chi^2/\text{NDF}$ : 235.8/13

Right Out:  $-9.417 \pm 2.613$   $\chi^2/\text{NDF}$ : 369.6/18

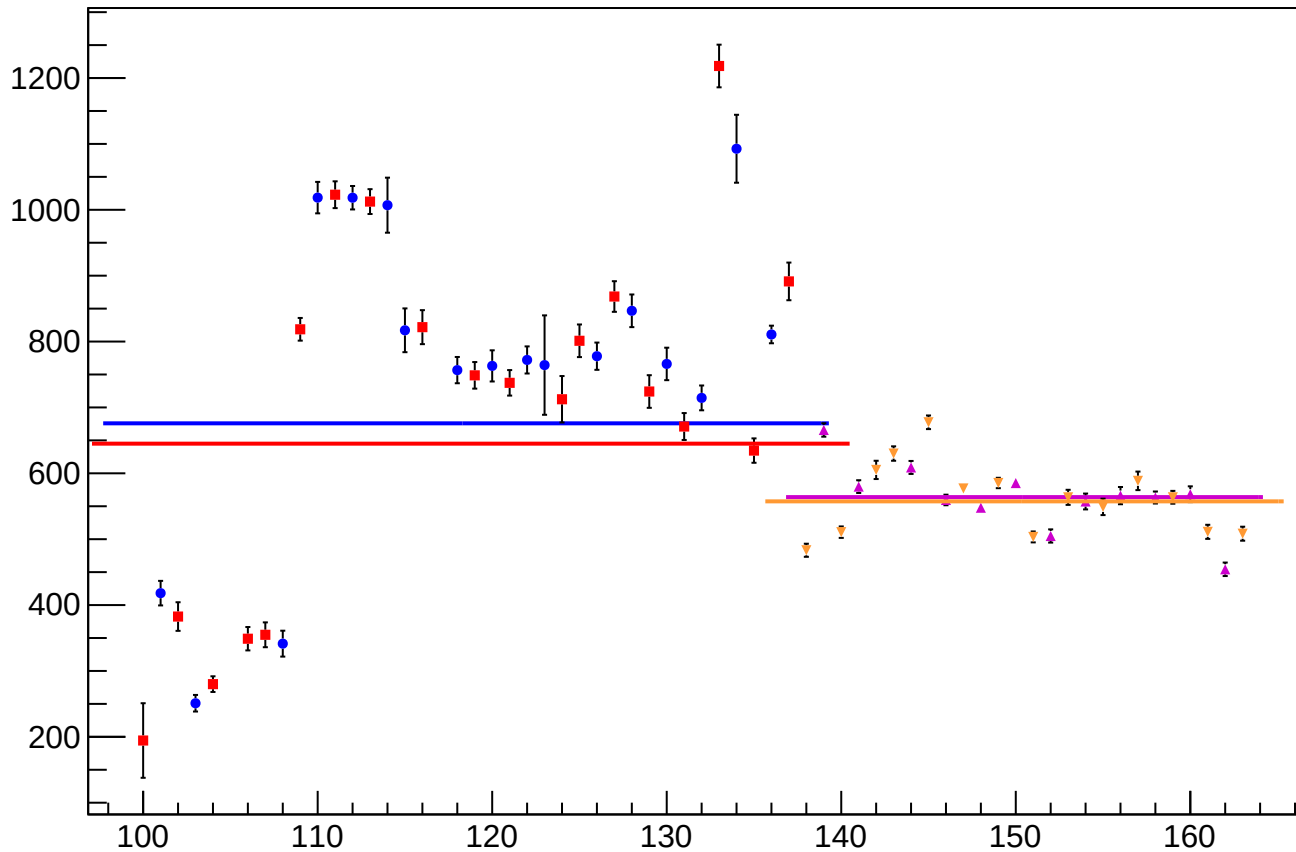
Left In:  $12.114 \pm 1.884$   $\chi^2/\text{NDF}$ : 202.0/11

+ sign  $1.559 \pm 1.498$   $\chi^2/\text{NDF}$ : 667.7/30

All:  $3.122 \pm 1.070$   $\chi^2/\text{NDF}$ : 1286.1/61

- sign  $4.749 \pm 1.528$   $\chi^2/\text{NDF}$ : 616.2/30

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug



Right In:  $675.871 \pm 5.037$   $\chi^2/\text{NDF}$ : 2586.4/16

Left Out:  $557.425 \pm 2.654$   $\chi^2/\text{NDF}$ : 382.8/13

Right Out:  $645.014 \pm 4.761$   $\chi^2/\text{NDF}$ : 3123.3/18

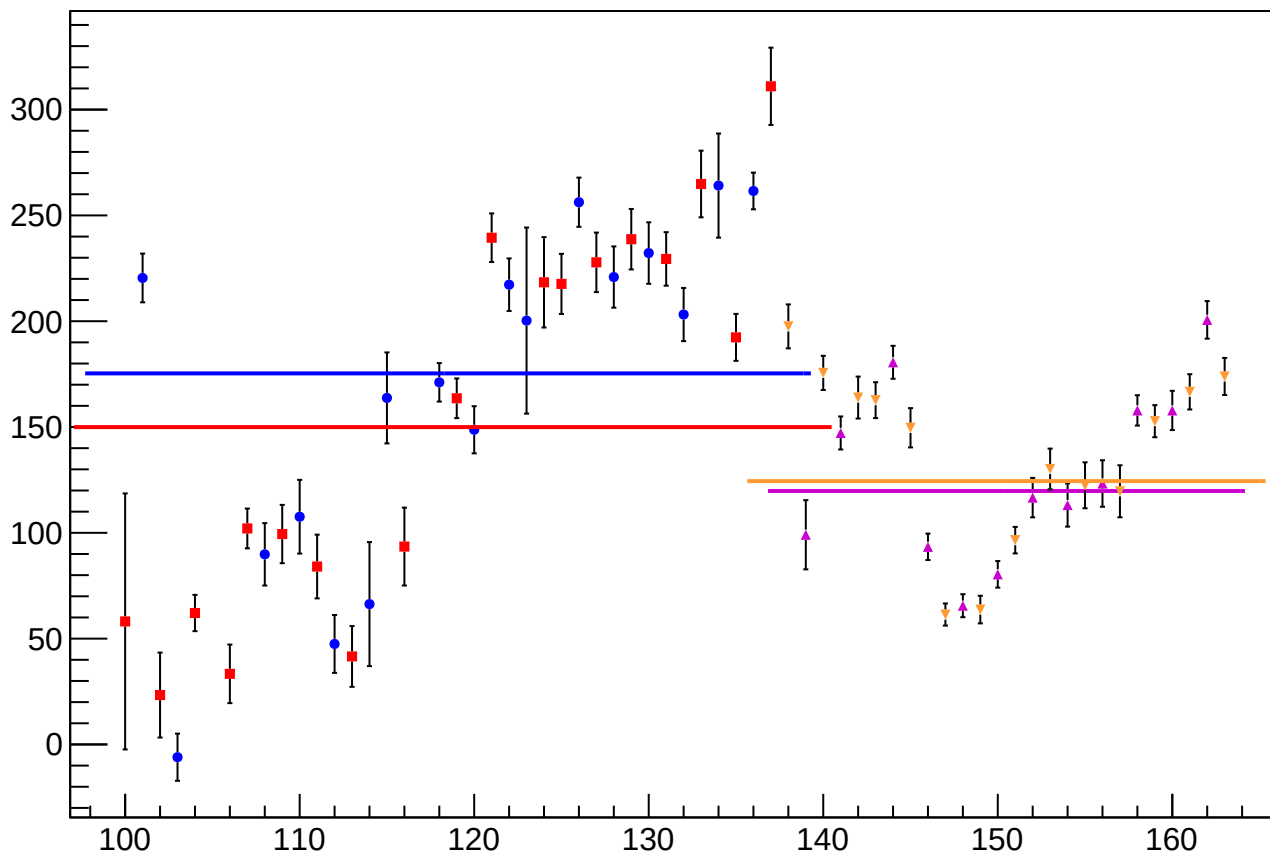
Left In:  $563.893 \pm 2.745$   $\chi^2/\text{NDF}$ : 286.3/11

+ sign  $583.161 \pm 2.348$   $\chi^2/\text{NDF}$ : 3402.0/30

All:  $583.638 \pm 1.671$   $\chi^2/\text{NDF}$ : 7029.6/61

- sign  $584.127 \pm 2.378$   $\chi^2/\text{NDF}$ : 3627.5/30

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug



Right In: 175.341 $\pm$ 3.203  $\chi^2$ /NDF: 638.5/16

Left Out: 124.446 $\pm$ 2.148  $\chi^2$ /NDF: 457.3/13

Right Out: 149.966 $\pm$ 3.045  $\chi^2$ /NDF: 693.2/18

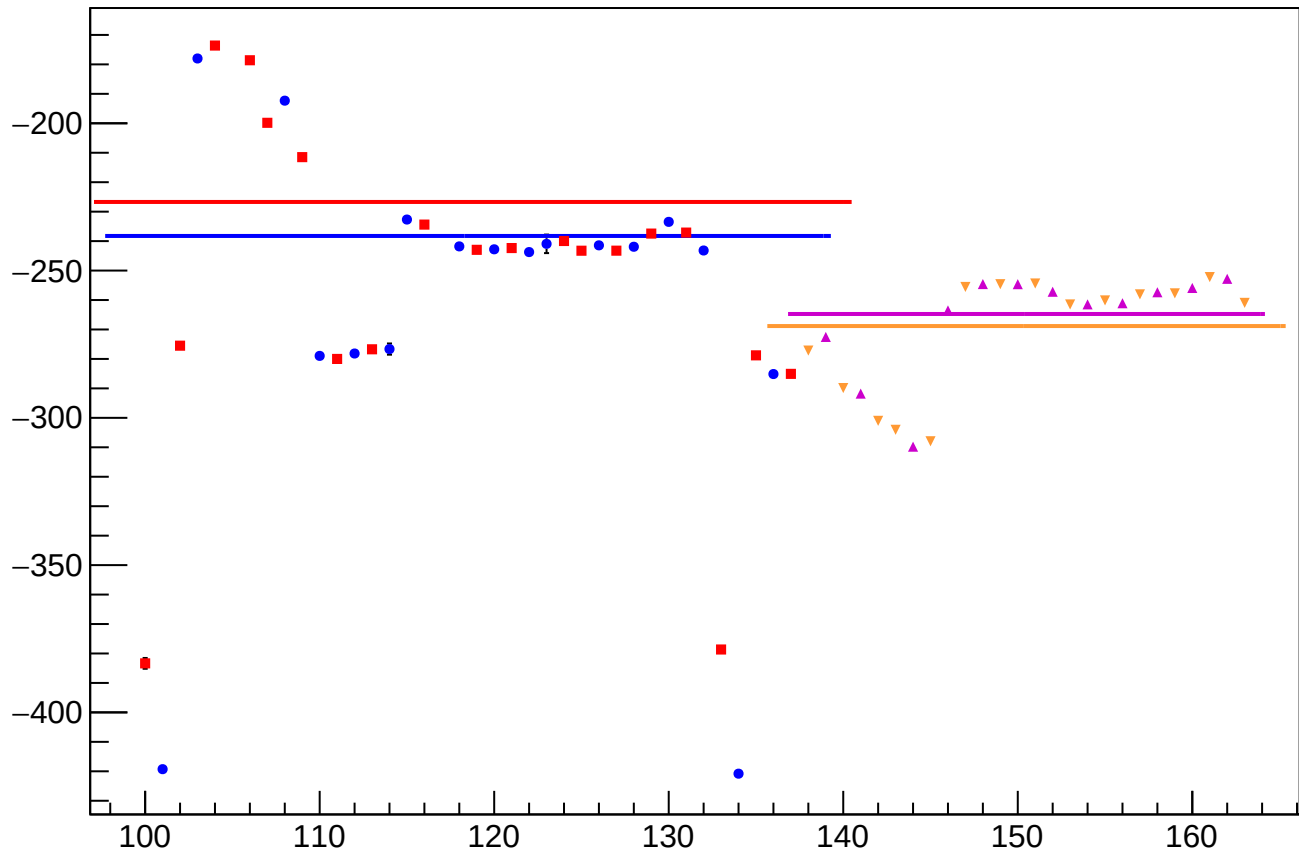
Left In: 119.783 $\pm$ 2.266  $\chi^2$ /NDF: 360.4/11

+ sign 140.240 $\pm$ 1.784  $\chi^2$ /NDF: 1269.9/30

All: 135.483 $\pm$ 1.273  $\chi^2$ /NDF: 2401.2/61

- sign 130.544 $\pm$ 1.818  $\chi^2$ /NDF: 1116.7/30

# reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug



Right In:  $-238.248 \pm 0.160$   $\chi^2/\text{NDF}: 167125.9/16$

Left Out:  $-268.839 \pm 0.107$   $\chi^2/\text{NDF}: 31534.8/13$

Right Out:  $-226.706 \pm 0.151$   $\chi^2/\text{NDF}: 102831.3/18$

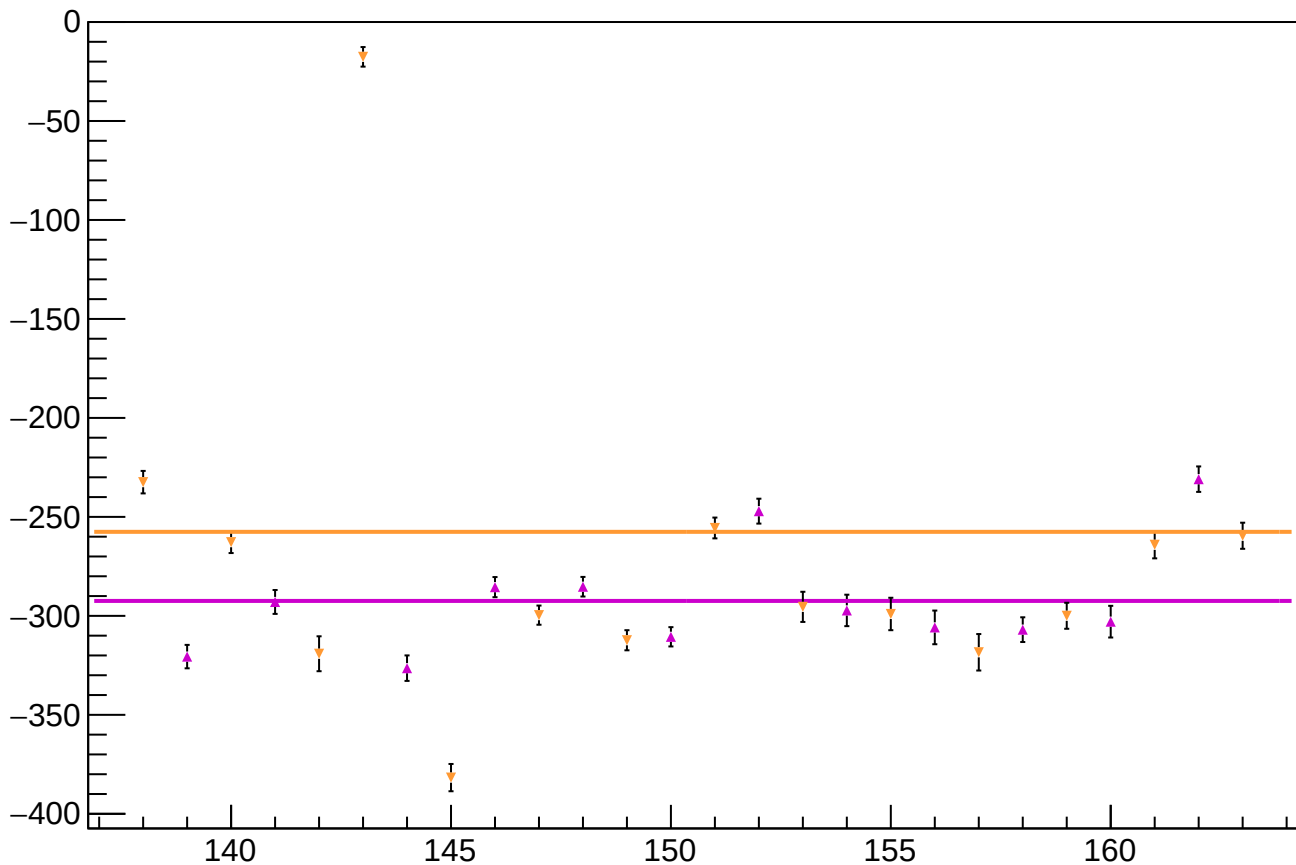
Left In:  $-264.740 \pm 0.109$   $\chi^2/\text{NDF}: 20455.2/11$

+ sign  $-259.421 \pm 0.089$   $\chi^2/\text{NDF}: 223985.6/30$

All:  $-255.555 \pm 0.063$   $\chi^2/\text{NDF}: 392720.5/61$

- sign  $-251.719 \pm 0.088$   $\chi^2/\text{NDF}: 164954.3/30$

# reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-257.550 \pm 1.649$   $\chi^2/\text{NDF}: 3075.9/13$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-292.456 \pm 1.762$   $\chi^2/\text{NDF}: 221.7/11$

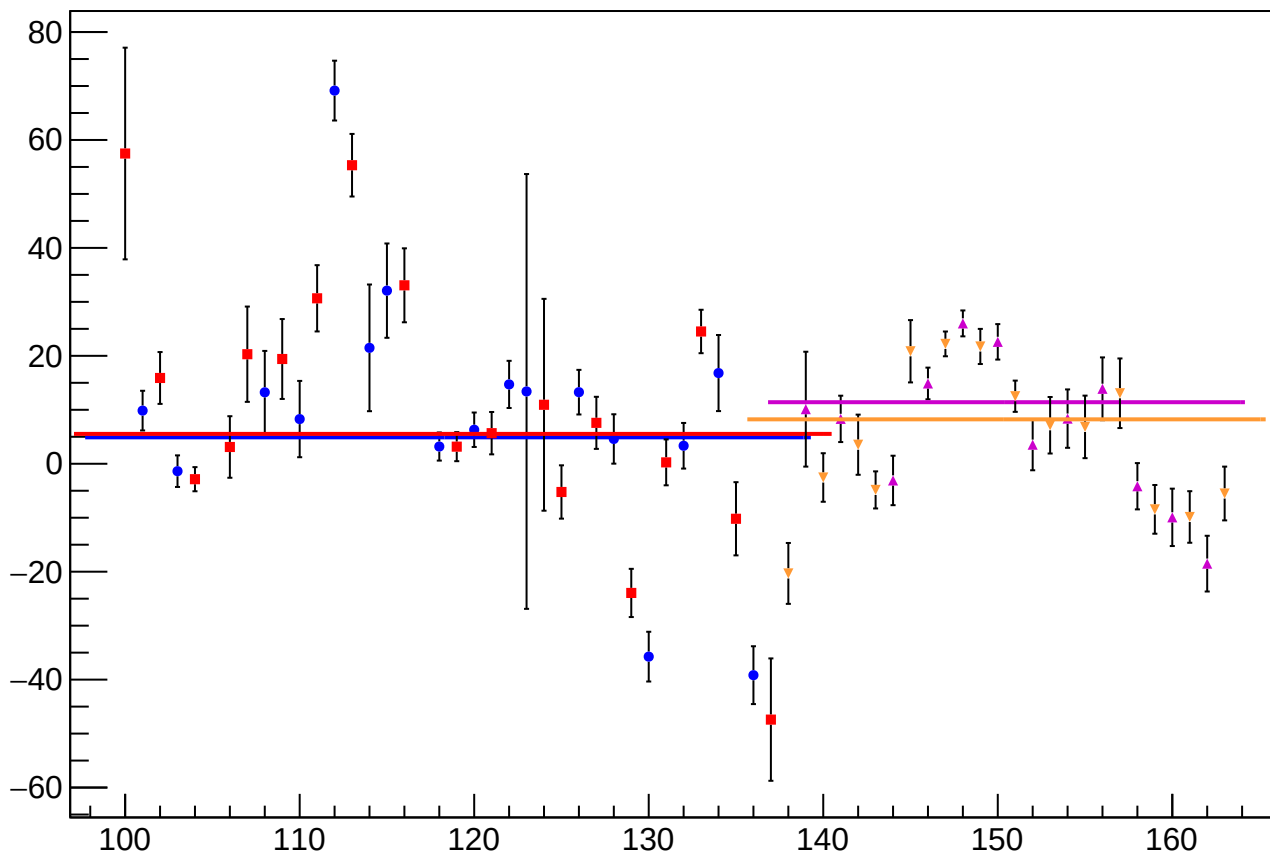
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-273.845 \pm 1.204$   $\chi^2/\text{NDF}: 3506.8/25$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$



# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.896 \pm 1.089$   $\chi^2/\text{NDF}$ : 312.0/16

Left Out:  $8.231 \pm 1.082$   $\chi^2/\text{NDF}$ : 144.1/13

Right Out:  $5.534 \pm 1.071$   $\chi^2/\text{NDF}$ : 239.1/18

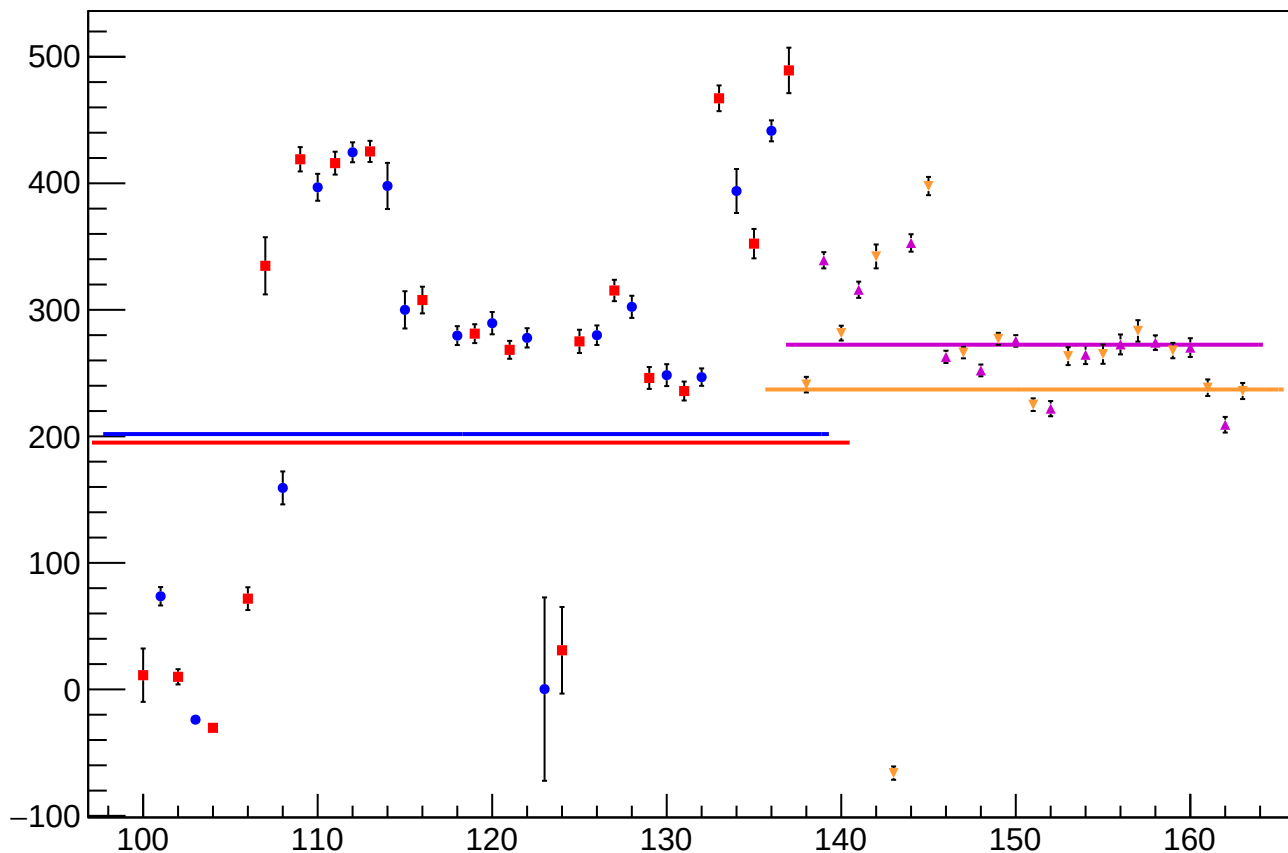
Left In:  $11.407 \pm 1.172$   $\chi^2/\text{NDF}$ : 126.6/11

+ sign  $6.575 \pm 0.767$   $\chi^2/\text{NDF}$ : 460.8/30

All:  $7.367 \pm 0.551$   $\chi^2/\text{NDF}$ : 842.4/61

- sign  $8.208 \pm 0.791$   $\chi^2/\text{NDF}$ : 379.4/30

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 201.807 $\pm$ 1.970  $\chi^2$ /NDF: 6754.2/16

Left Out: 237.048 $\pm$ 1.620  $\chi^2$ /NDF: 4176.6/13

Right Out: 195.053 $\pm$ 1.924  $\chi^2$ /NDF: 8257.1/18

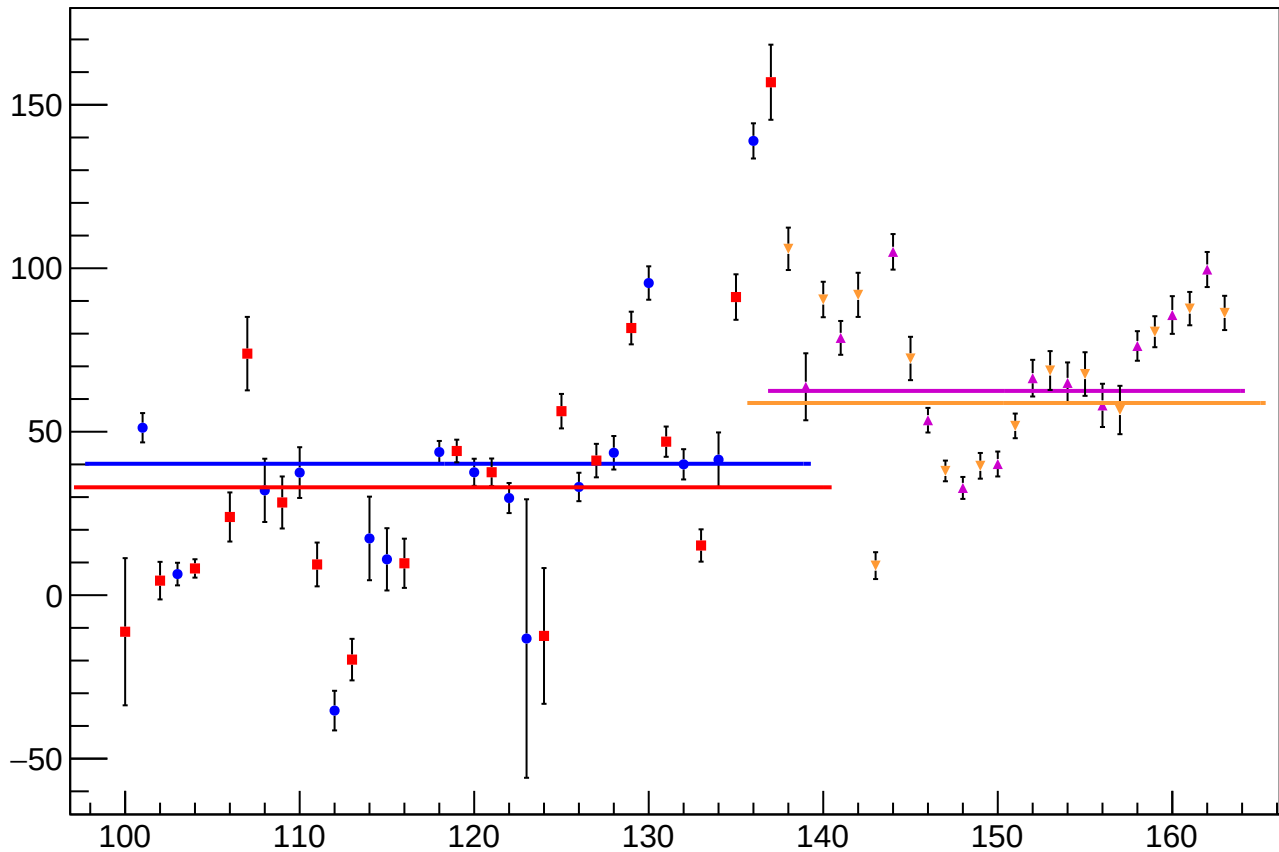
Left In: 272.426 $\pm$ 1.708  $\chi^2$ /NDF: 490.3/11

+ sign 222.836 $\pm$ 1.251  $\chi^2$ /NDF: 11121.7/30

All: 230.429 $\pm$ 0.894  $\chi^2$ /NDF: 20848.7/61

- sign 238.340 $\pm$ 1.277  $\chi^2$ /NDF: 9651.8/30

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 40.196 $\pm$ 1.268  $\chi^2/\text{NDF}$ : 735.0/16

Left Out: 58.791 $\pm$ 1.307  $\chi^2/\text{NDF}$ : 417.7/13

Right Out: 32.999 $\pm$ 1.253  $\chi^2/\text{NDF}$ : 554.1/18

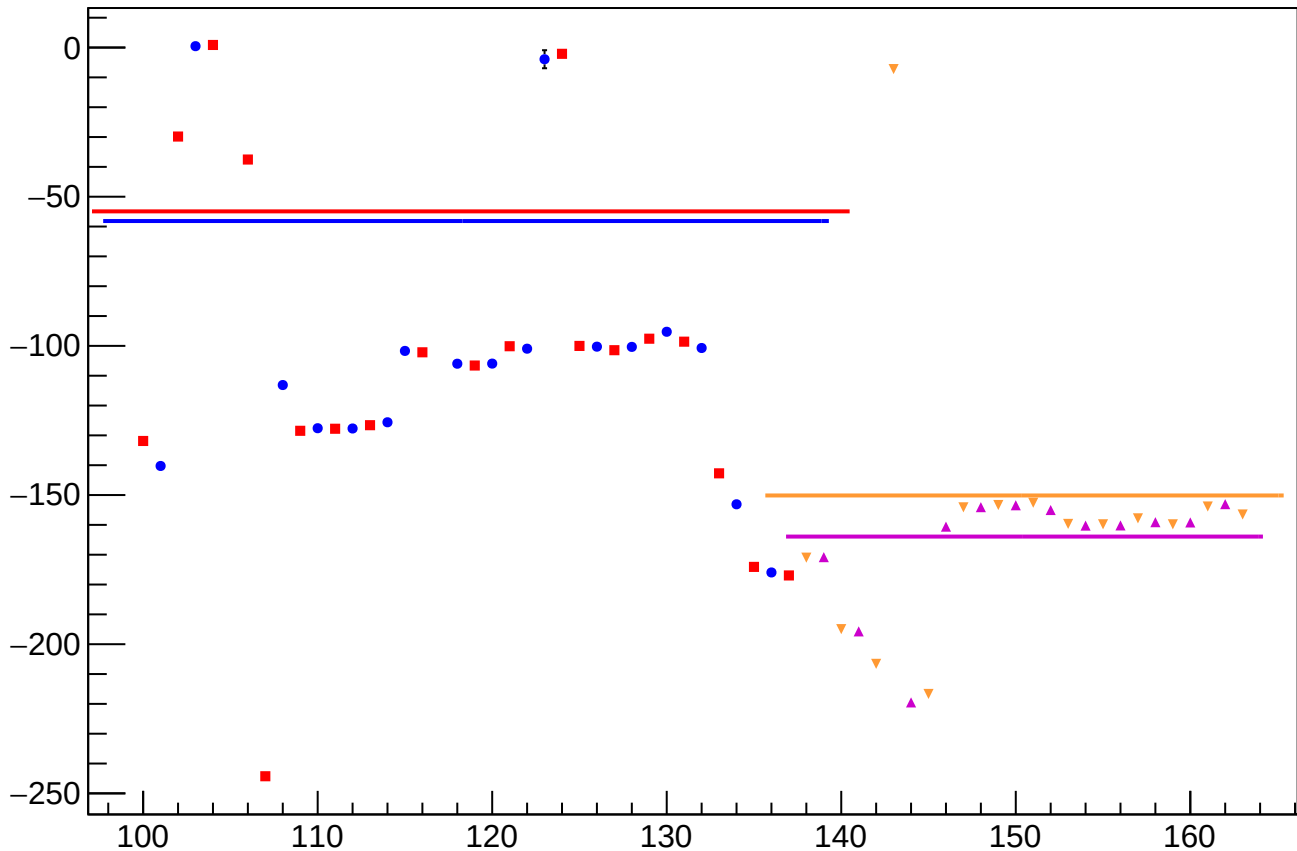
Left In: 62.486 $\pm$ 1.411  $\chi^2/\text{NDF}$ : 263.6/11

+ sign 49.205 $\pm$ 0.910  $\chi^2/\text{NDF}$ : 1256.9/30

All: 47.647 $\pm$ 0.653  $\chi^2/\text{NDF}$ : 2324.9/61

- sign 45.997 $\pm$ 0.937  $\chi^2/\text{NDF}$ : 1061.9/30

# reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-58.155 \pm 0.062$   $\chi^2/\text{NDF}$ : 1105509.3/16

Left Out:  $-150.142 \pm 0.065$   $\chi^2/\text{NDF}$ : 579579.9/13

Right Out:  $-54.914 \pm 0.060$   $\chi^2/\text{NDF}$ : 1003885.5/18

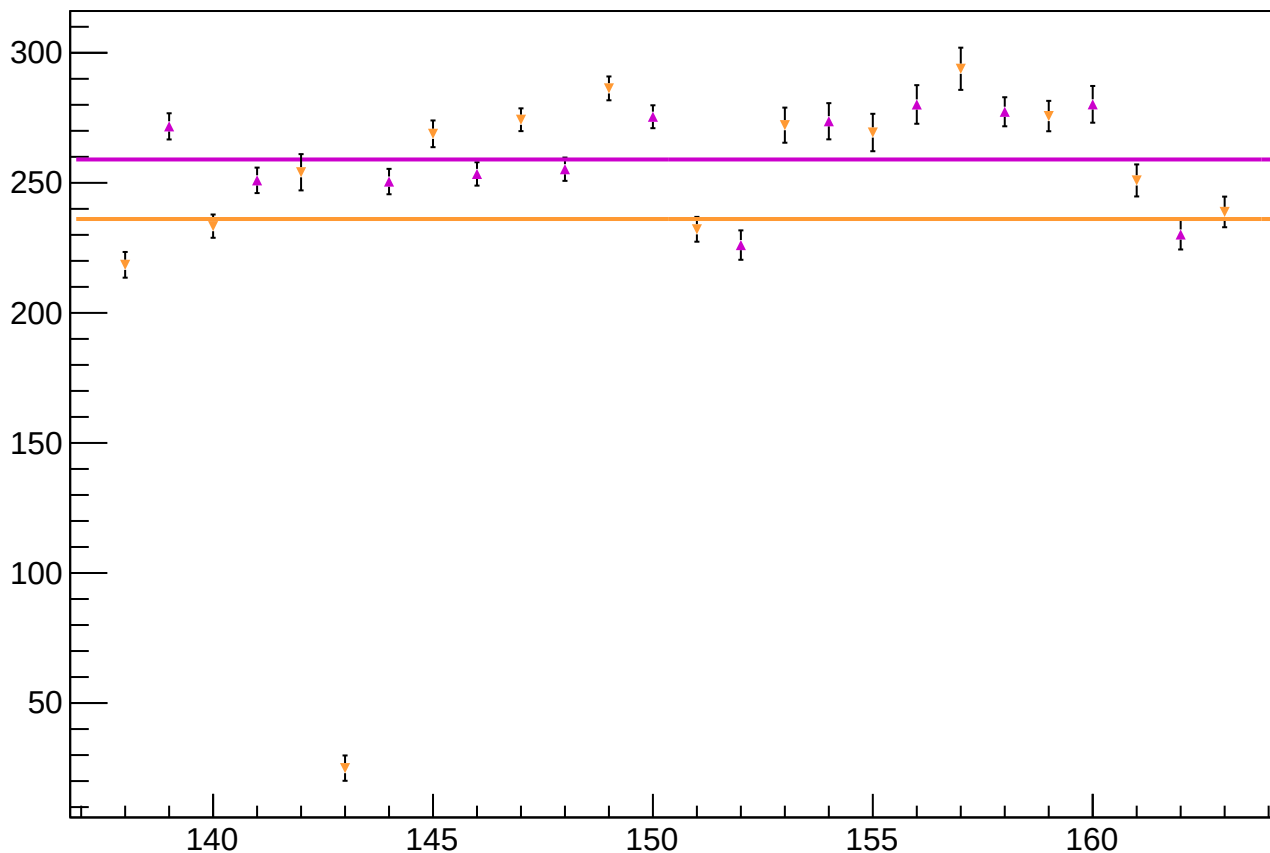
Left In:  $-163.922 \pm 0.068$   $\chi^2/\text{NDF}$ : 60043.6/11

+ sign  $-101.619 \pm 0.045$   $\chi^2/\text{NDF}$ : 2739647.2/30

All:  $-102.308 \pm 0.032$   $\chi^2/\text{NDF}$ : 5249615.9/61

- sign  $-103.006 \pm 0.045$   $\chi^2/\text{NDF}$ : 2509491.3/30

# reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 236.098+/-1.449  $\chi^2/\text{NDF}$ :2288.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

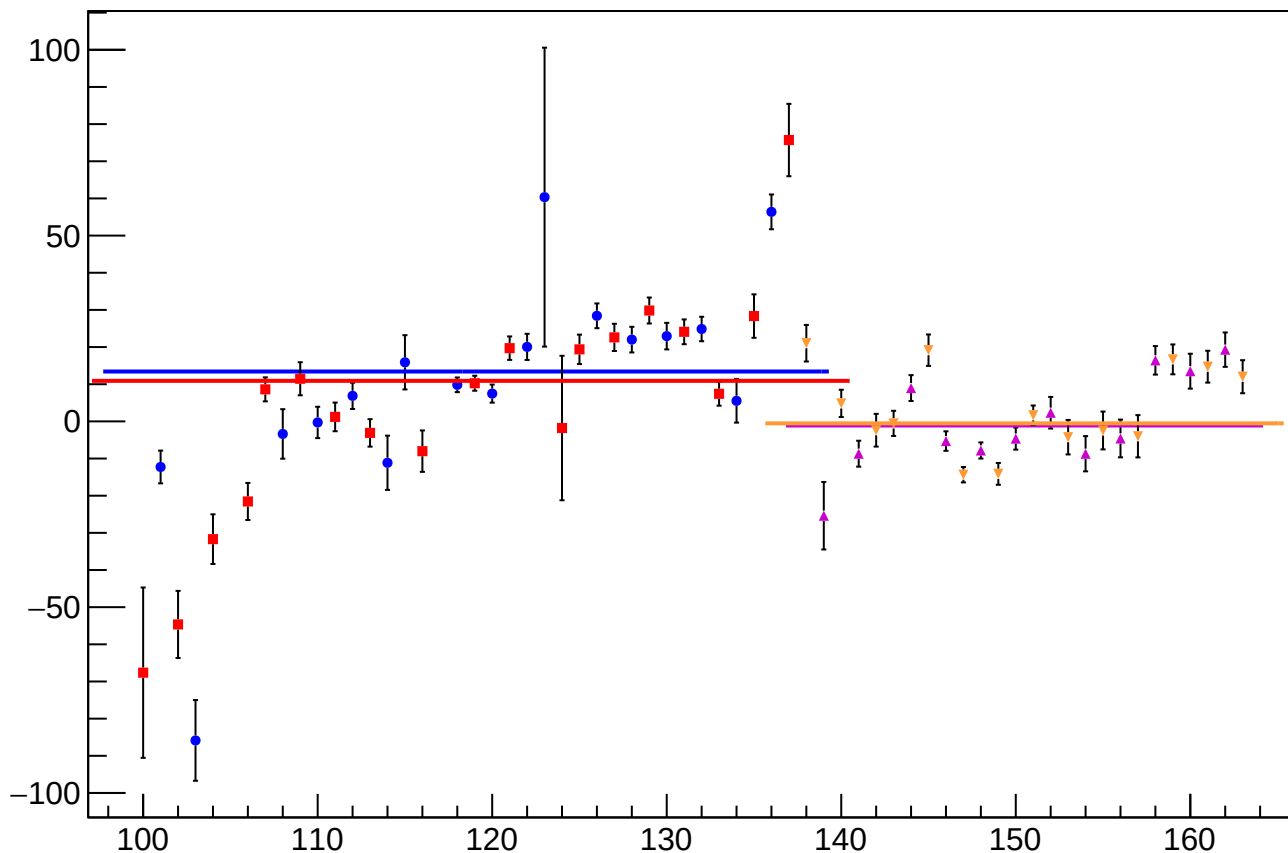
Left In: 258.986+/-1.531  $\chi^2/\text{NDF}$ :119.6/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 246.912+/-1.053  $\chi^2/\text{NDF}$ : 2526.3/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $13.423 \pm 0.920$   $\chi^2/\text{NDF}$ : 295.2/16

Left Out:  $-0.528 \pm 0.960$   $\chi^2/\text{NDF}$ : 149.7/13

Right Out:  $10.908 \pm 0.916$   $\chi^2/\text{NDF}$ : 302.6/18

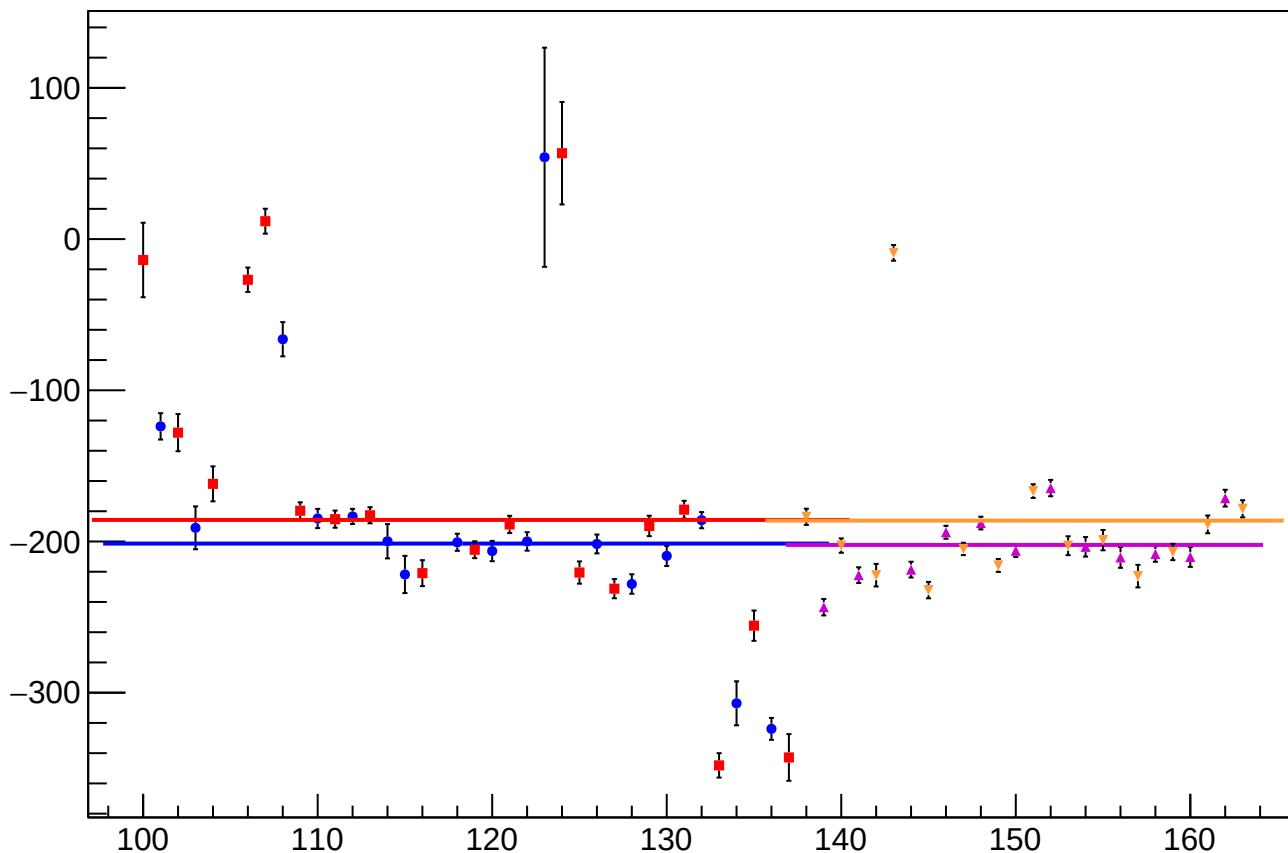
Left In:  $-1.107 \pm 1.028$   $\chi^2/\text{NDF}$ : 87.5/11

+ sign  $6.747 \pm 0.664$   $\chi^2/\text{NDF}$ : 555.0/30

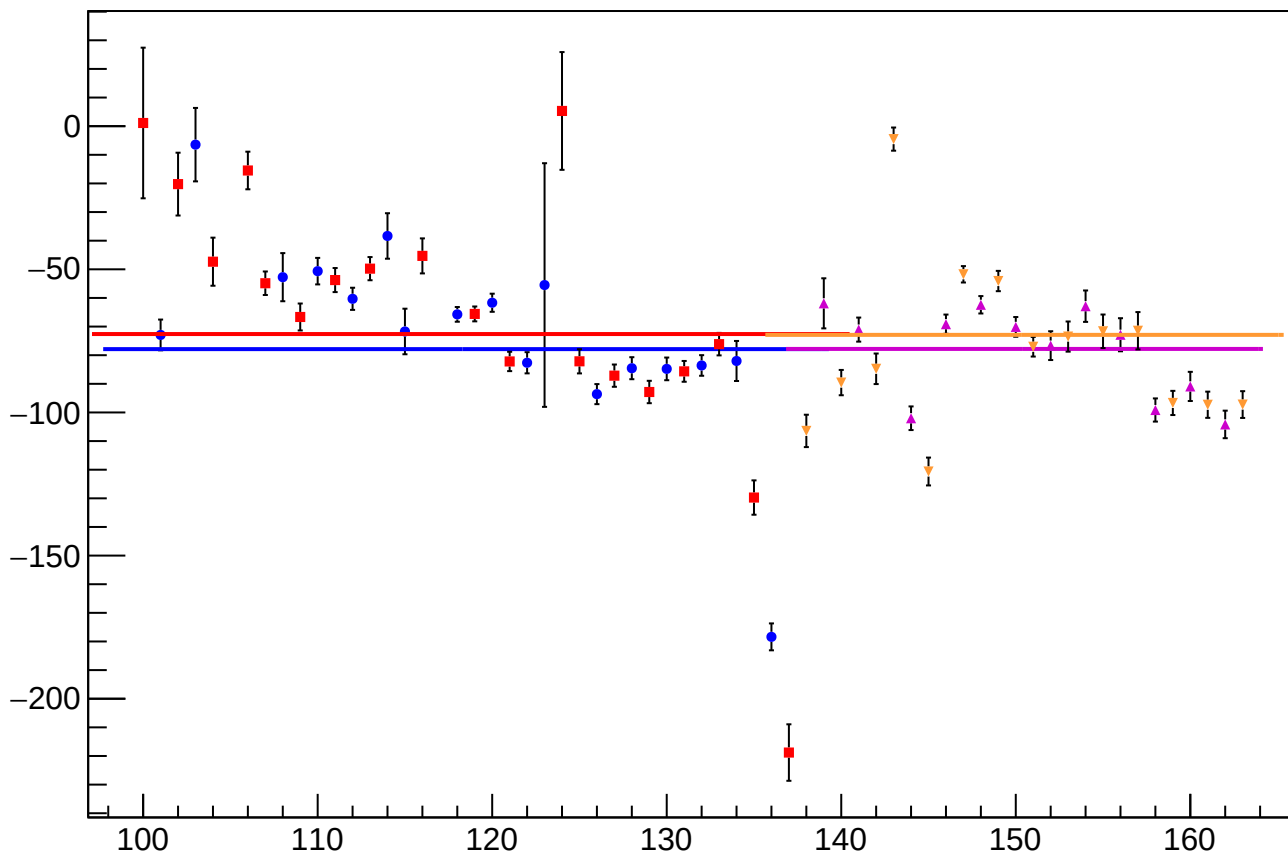
All:  $6.186 \pm 0.476$   $\chi^2/\text{NDF}$ : 1022.7/61

- sign  $5.591 \pm 0.684$   $\chi^2/\text{NDF}$ : 466.2/30

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-77.877 \pm 1.066$   $\chi^2/\text{NDF}$ : 658.2/16

Left Out:  $-72.897 \pm 1.158$   $\chi^2/\text{NDF}$ : 608.0/13

Right Out:  $-72.612 \pm 1.054$   $\chi^2/\text{NDF}$ : 606.9/18

Left In:  $-77.810 \pm 1.235$   $\chi^2/\text{NDF}$ : 150.4/11

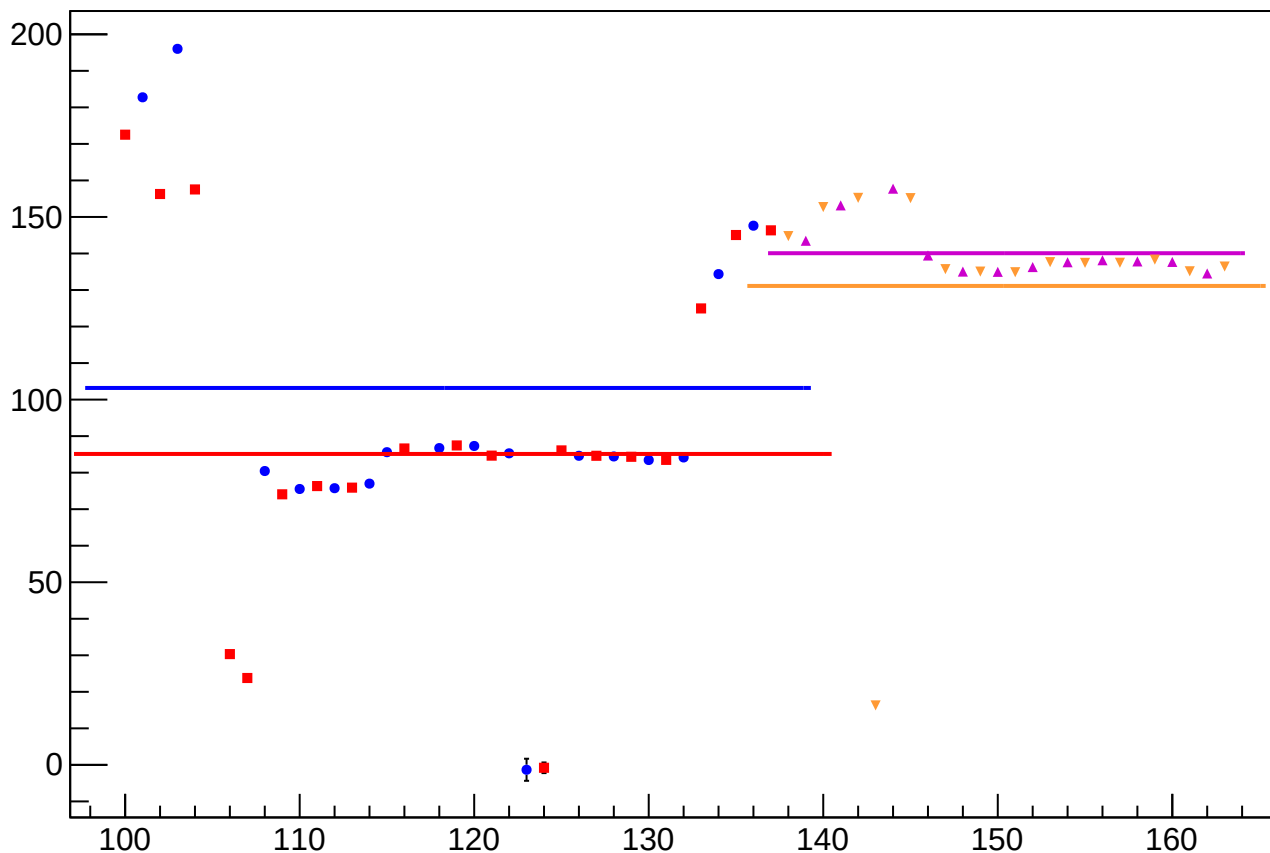
+ sign  $-75.594 \pm 0.784$   $\chi^2/\text{NDF}$ : 1276.2/30

All:  $-75.206 \pm 0.561$   $\chi^2/\text{NDF}$ : 2044.1/61

- sign  $-74.801 \pm 0.802$   $\chi^2/\text{NDF}$ : 767.5/30



# reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 103.188 $\pm$ 0.070  $\chi^2$ /NDF: 273587.8/16

Left Out: 131.117 $\pm$ 0.057  $\chi^2$ /NDF: 344925.1/13

Right Out: 85.121 $\pm$ 0.064  $\chi^2$ /NDF: 423521.4/18

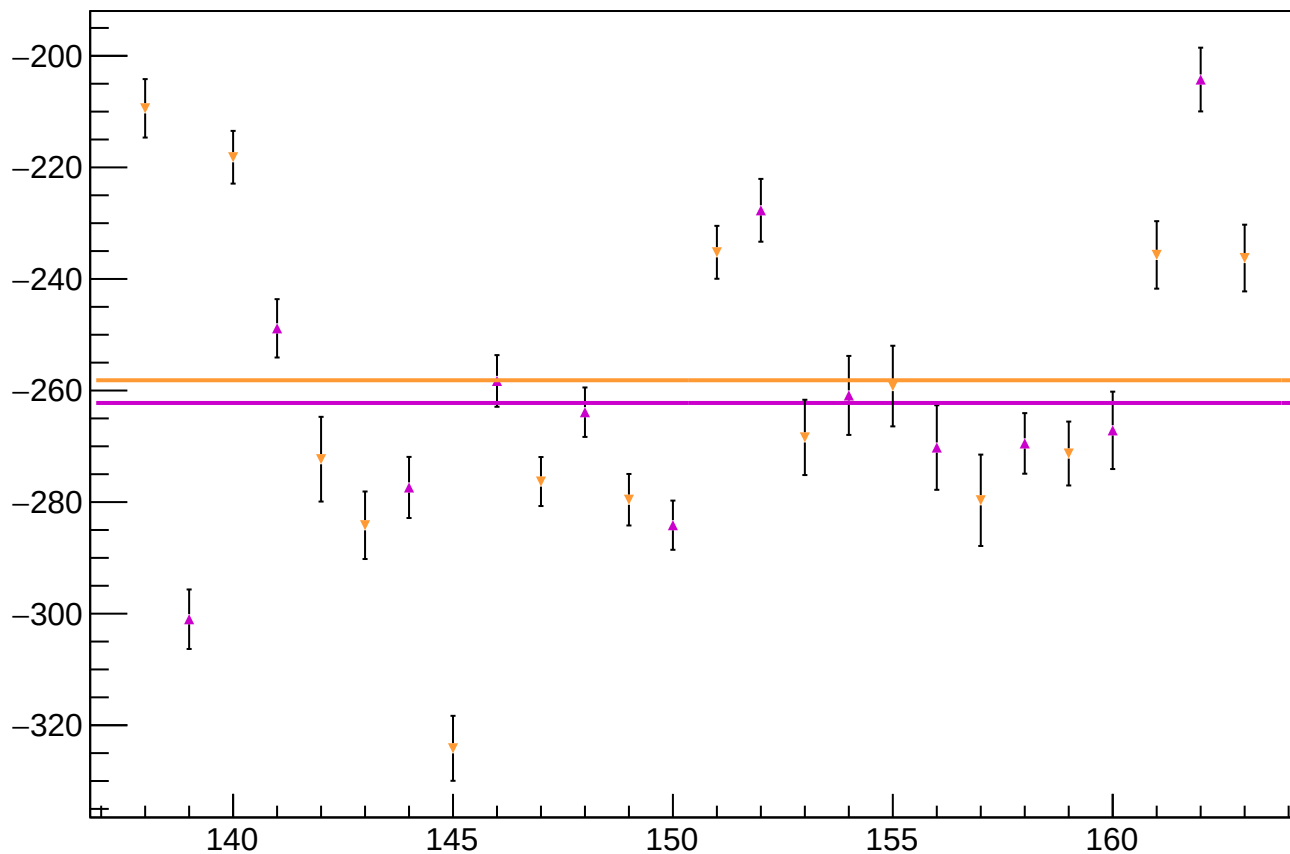
Left In: 140.074 $\pm$ 0.059  $\chi^2$ /NDF: 13198.0/11

+ sign 119.973 $\pm$ 0.044  $\chi^2$ /NDF: 713278.6/30

All: 117.227 $\pm$ 0.031  $\chi^2$ /NDF: 1556493.6/61

- sign 114.609 $\pm$ 0.043  $\chi^2$ /NDF: 835751.6/30

# reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-258.159 \pm 1.507$   $\chi^2/\text{NDF}$ : 412.2/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

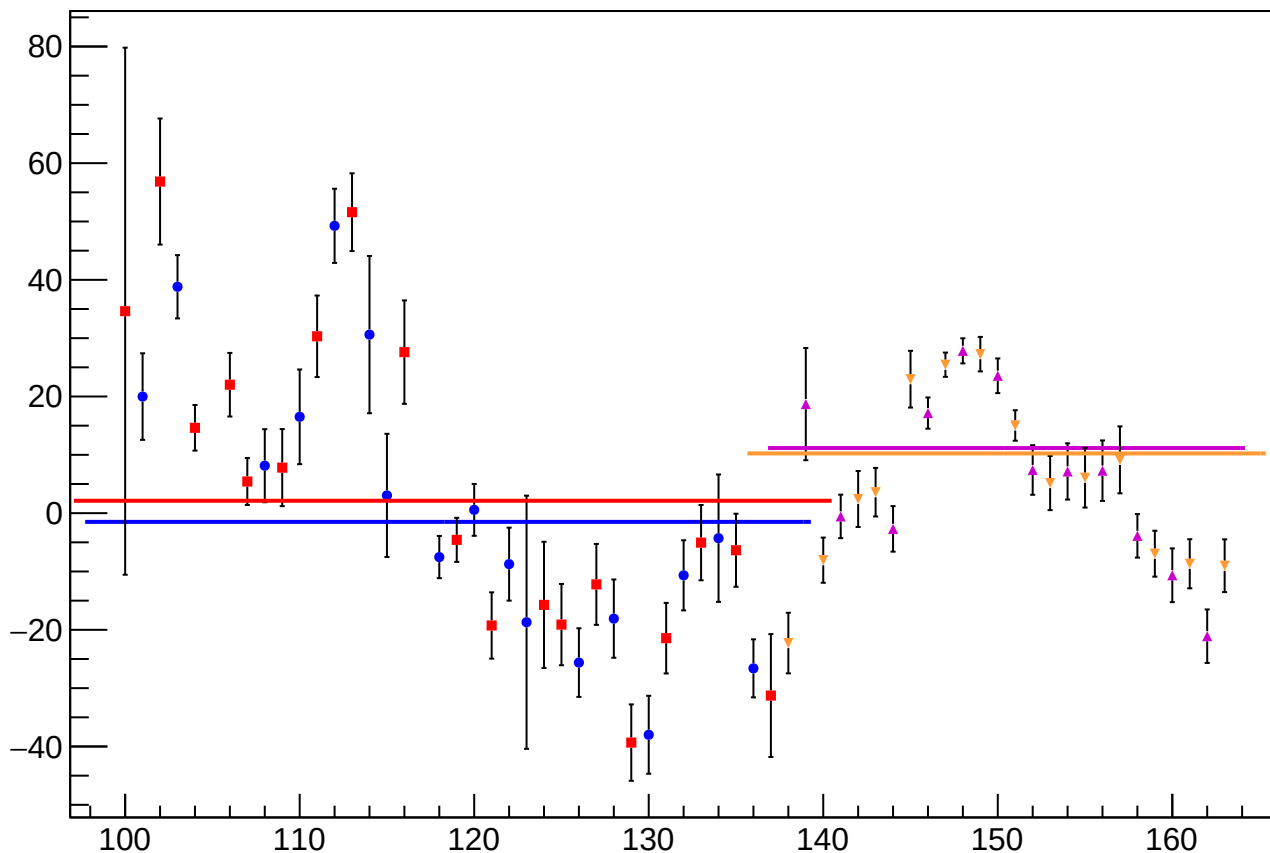
Left In:  $-262.229 \pm 1.565$   $\chi^2/\text{NDF}$ : 236.6/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-260.117 \pm 1.086$   $\chi^2/\text{NDF}$ : 652.3/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-1.492 \pm 1.513$   $\chi^2/\text{NDF}: 226.1/16$

Left Out:  $10.241 \pm 0.988$   $\chi^2/\text{NDF}: 222.8/13$

Right Out:  $2.127 \pm 1.402$   $\chi^2/\text{NDF}: 232.6/18$

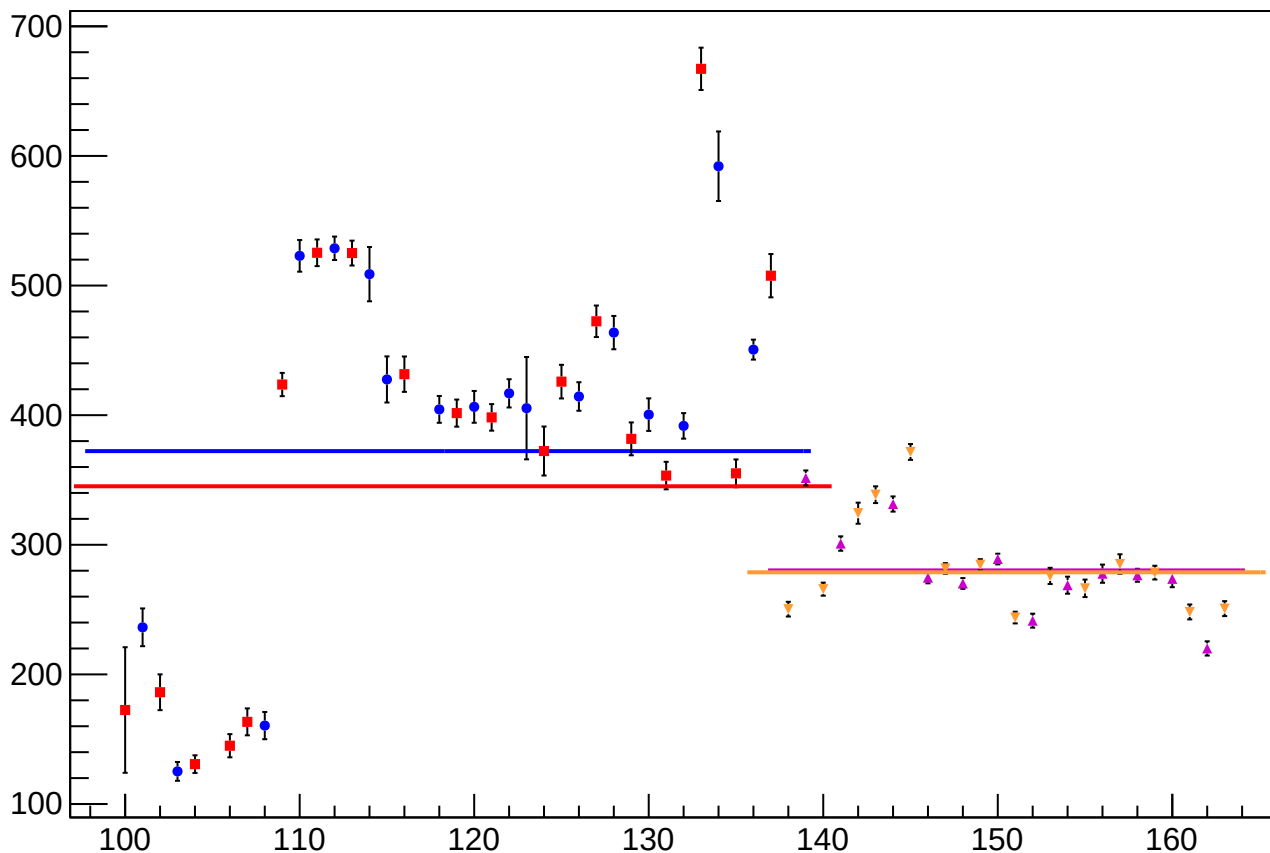
Left In:  $11.166 \pm 1.043$   $\chi^2/\text{NDF}: 195.7/11$

+ sign  $6.733 \pm 0.827$   $\chi^2/\text{NDF}: 491.0/30$

All:  $7.333 \pm 0.588$   $\chi^2/\text{NDF}: 947.2/61$

- sign  $7.947 \pm 0.837$   $\chi^2/\text{NDF}: 455.1/30$

# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $372.263 \pm 2.759$   $\chi^2/\text{NDF}: 2433.1/16$

Left Out:  $278.762 \pm 1.476$   $\chi^2/\text{NDF}: 498.3/13$

Right Out:  $345.135 \pm 2.562$   $\chi^2/\text{NDF}: 3416.5/18$

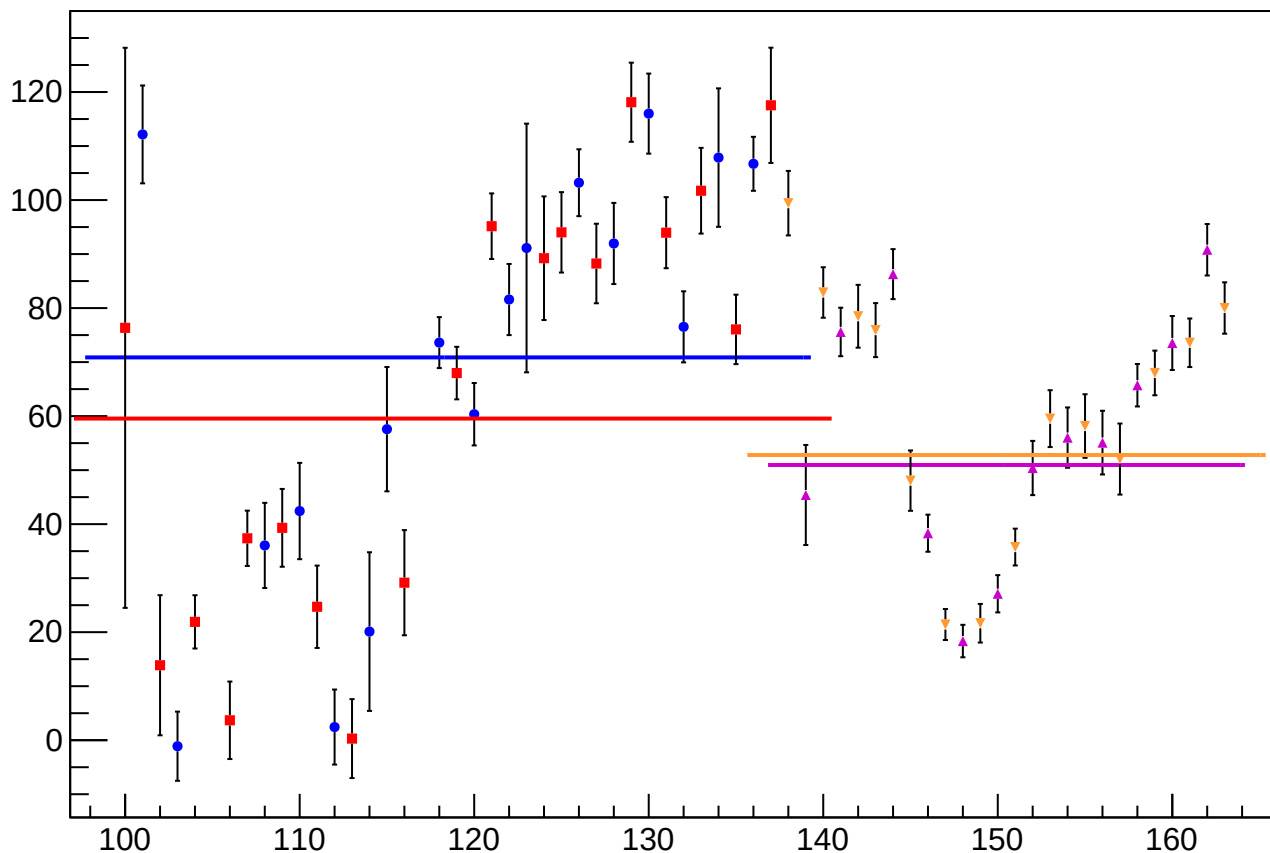
Left In:  $280.245 \pm 1.518$   $\chi^2/\text{NDF}: 431.2/11$

+ sign  $299.556 \pm 1.301$   $\chi^2/\text{NDF}: 3824.2/30$

All:  $298.335 \pm 0.922$   $\chi^2/\text{NDF}: 8148.4/61$

- sign  $297.106 \pm 1.306$   $\chi^2/\text{NDF}: 4322.4/30$

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 70.867 $\pm$ 1.743  $\chi^2$ /NDF: 427.0/16

Left Out: 52.802 $\pm$ 1.194  $\chi^2$ /NDF: 434.7/13

Right Out: 59.546 $\pm$ 1.633  $\chi^2$ /NDF: 490.9/18

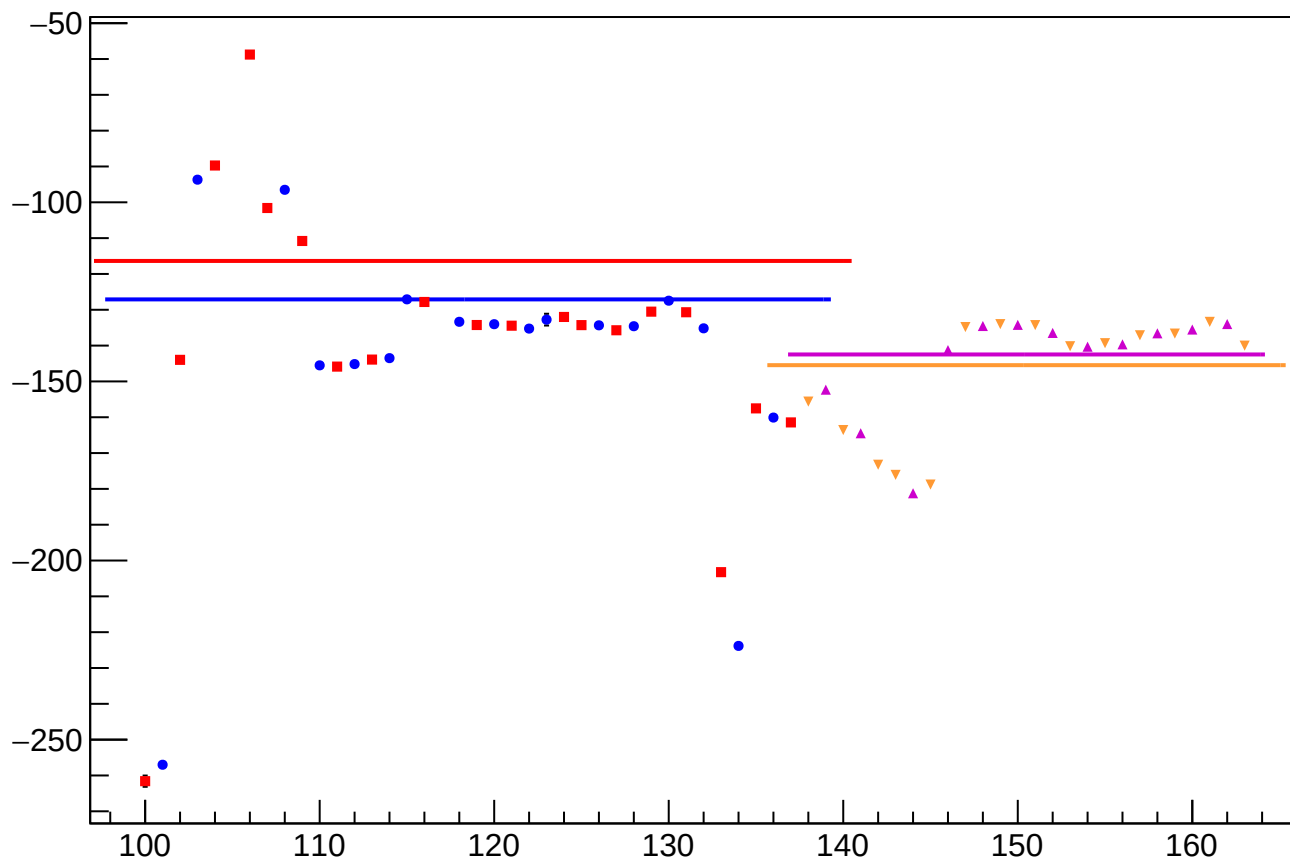
Left In: 50.948 $\pm$ 1.253  $\chi^2$ /NDF: 373.3/11

+ sign 58.571 $\pm$ 0.985  $\chi^2$ /NDF: 934.8/30

All: 56.374 $\pm$ 0.700  $\chi^2$ /NDF: 1826.4/61

- sign 54.135 $\pm$ 0.994  $\chi^2$ /NDF: 881.6/30

# reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-127.105 \pm 0.089$   $\chi^2/\text{NDF}: 167064.7/16$

Left Out:  $-145.463 \pm 0.059$   $\chi^2/\text{NDF}: 67275.8/13$

Right Out:  $-116.369 \pm 0.083$   $\chi^2/\text{NDF}: 167595.6/18$

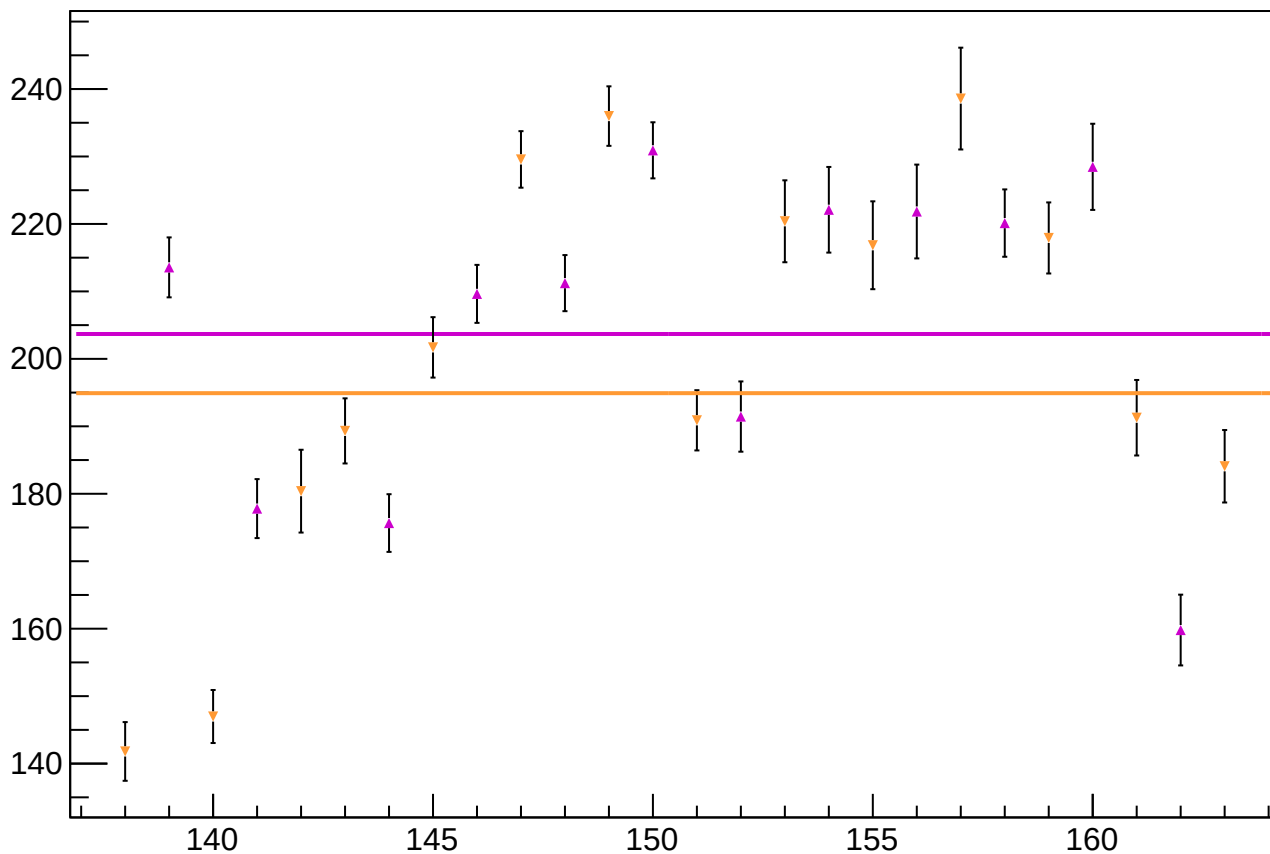
Left In:  $-142.476 \pm 0.060$   $\chi^2/\text{NDF}: 43452.7/11$

+ sign  $-139.867 \pm 0.049$   $\chi^2/\text{NDF}: 263635.1/30$

All:  $-136.623 \pm 0.035$   $\chi^2/\text{NDF}: 548109.2/61$

- sign  $-133.463 \pm 0.049$   $\chi^2/\text{NDF}: 275950.8/30$

# reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 194.914+/-1.329  $\chi^2/\text{NDF}$ : 548.8/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

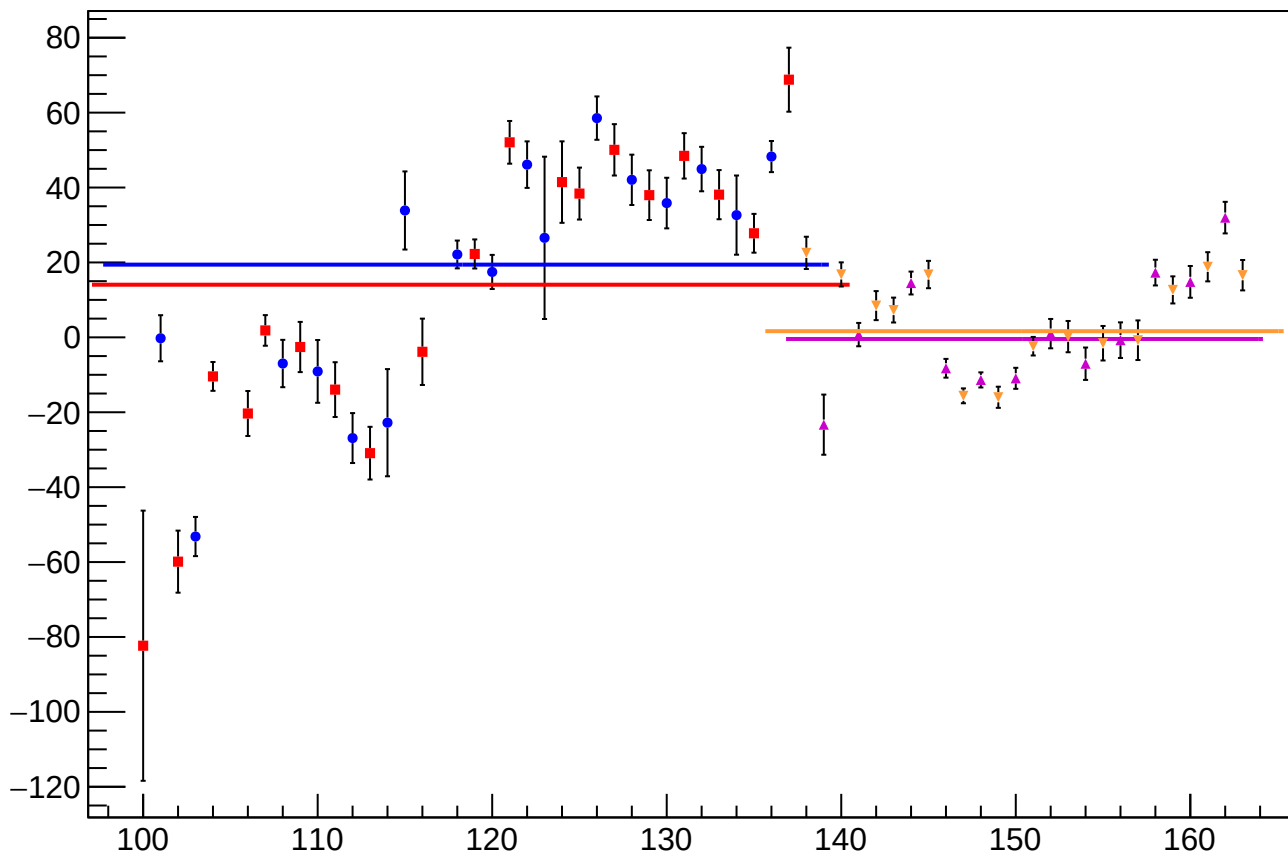
Left In: 203.686+/-1.399  $\chi^2/\text{NDF}$ : 247.7/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 199.074+/-0.964  $\chi^2/\text{NDF}$ : 817.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $19.416 \pm 1.480$   $\chi^2/\text{NDF}$ : 441.1/16

Left Out:  $1.647 \pm 0.888$   $\chi^2/\text{NDF}$ : 229.2/13

Right Out:  $14.055 \pm 1.392$   $\chi^2/\text{NDF}$ : 436.5/18

Left In:  $-0.436 \pm 0.946$   $\chi^2/\text{NDF}$ : 186.5/11

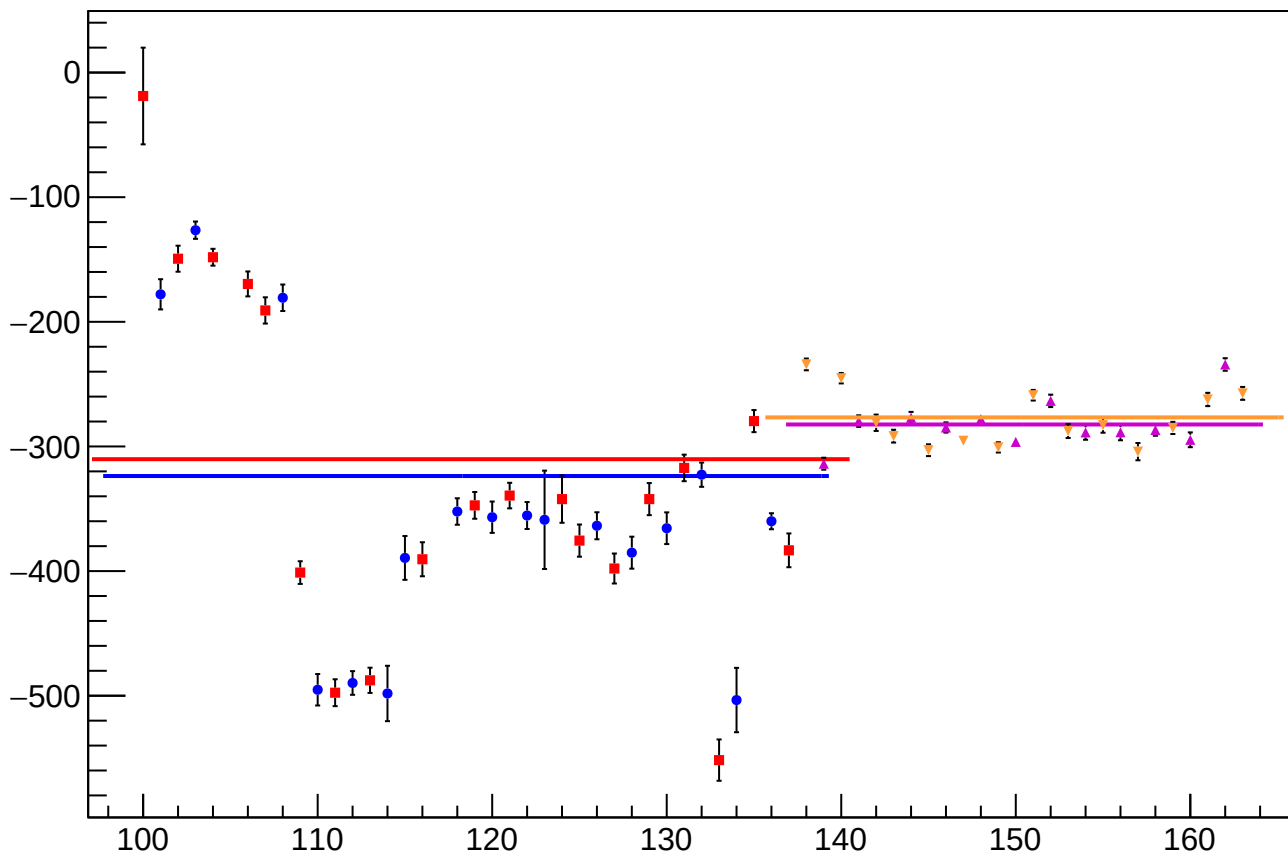
+ sign  $6.354 \pm 0.762$   $\chi^2/\text{NDF}$ : 776.3/30

All:  $5.277 \pm 0.546$   $\chi^2/\text{NDF}$ : 1477.6/61

- sign  $4.141 \pm 0.782$   $\chi^2/\text{NDF}$ : 697.2/30



# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -323.721 $\pm$ 2.668  $\chi^2/\text{NDF}$ : 1850.8/16

Left Out: -276.685 $\pm$ 1.313  $\chi^2/\text{NDF}$ : 296.4/13

Right Out: -310.223 $\pm$ 2.523  $\chi^2/\text{NDF}$ : 2300.0/18

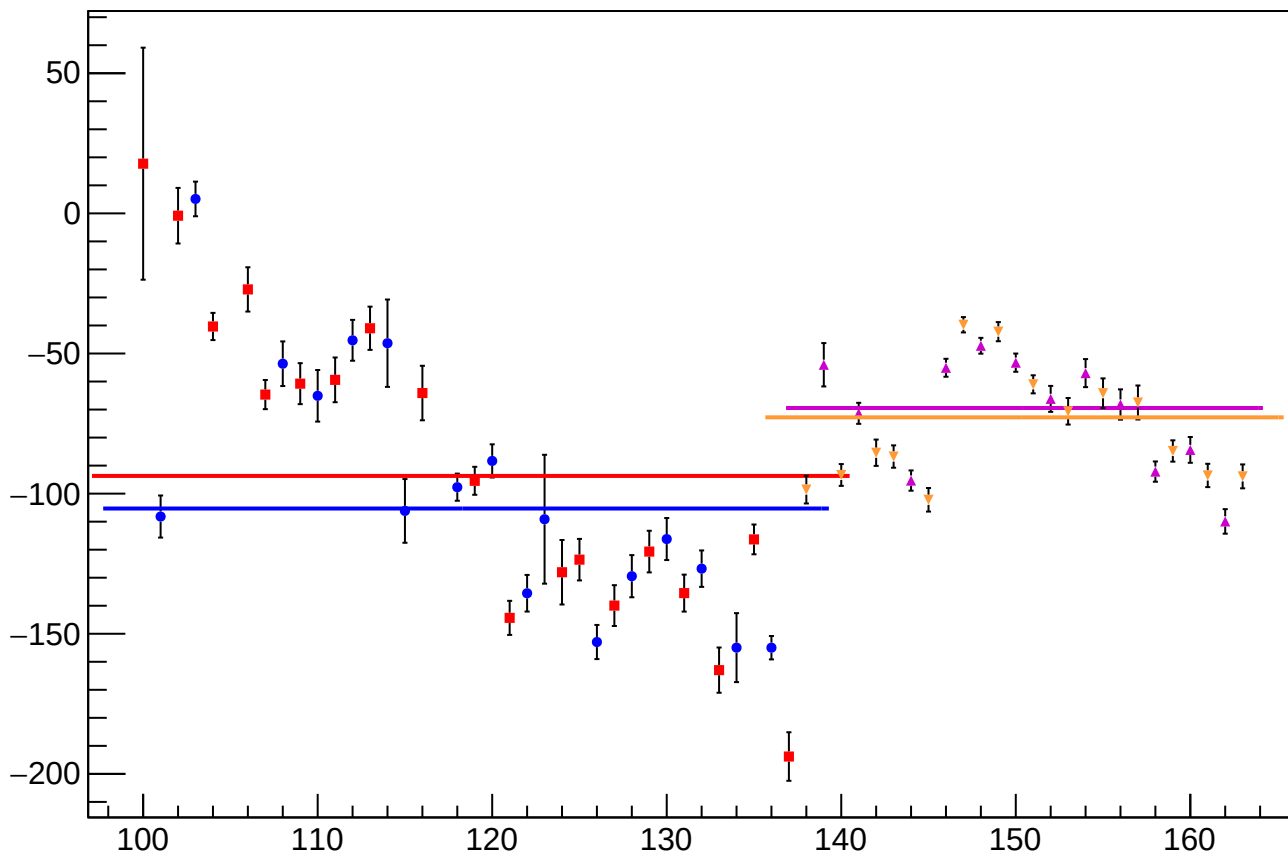
Left In: -282.367 $\pm$ 1.366  $\chi^2/\text{NDF}$ : 171.7/11

+ sign -285.853 $\pm$ 1.178  $\chi^2/\text{NDF}$ : 2397.3/30

All: -287.239 $\pm$ 0.841  $\chi^2/\text{NDF}$ : 4966.1/61

- sign -288.680 $\pm$ 1.201  $\chi^2/\text{NDF}$ : 2565.9/30

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-105.309 \pm 1.693$   $\chi^2/\text{NDF}: 737.5/16$

Left Out:  $-72.781 \pm 1.068$   $\chi^2/\text{NDF}: 425.5/13$

Right Out:  $-93.680 \pm 1.612$   $\chi^2/\text{NDF}: 826.5/18$

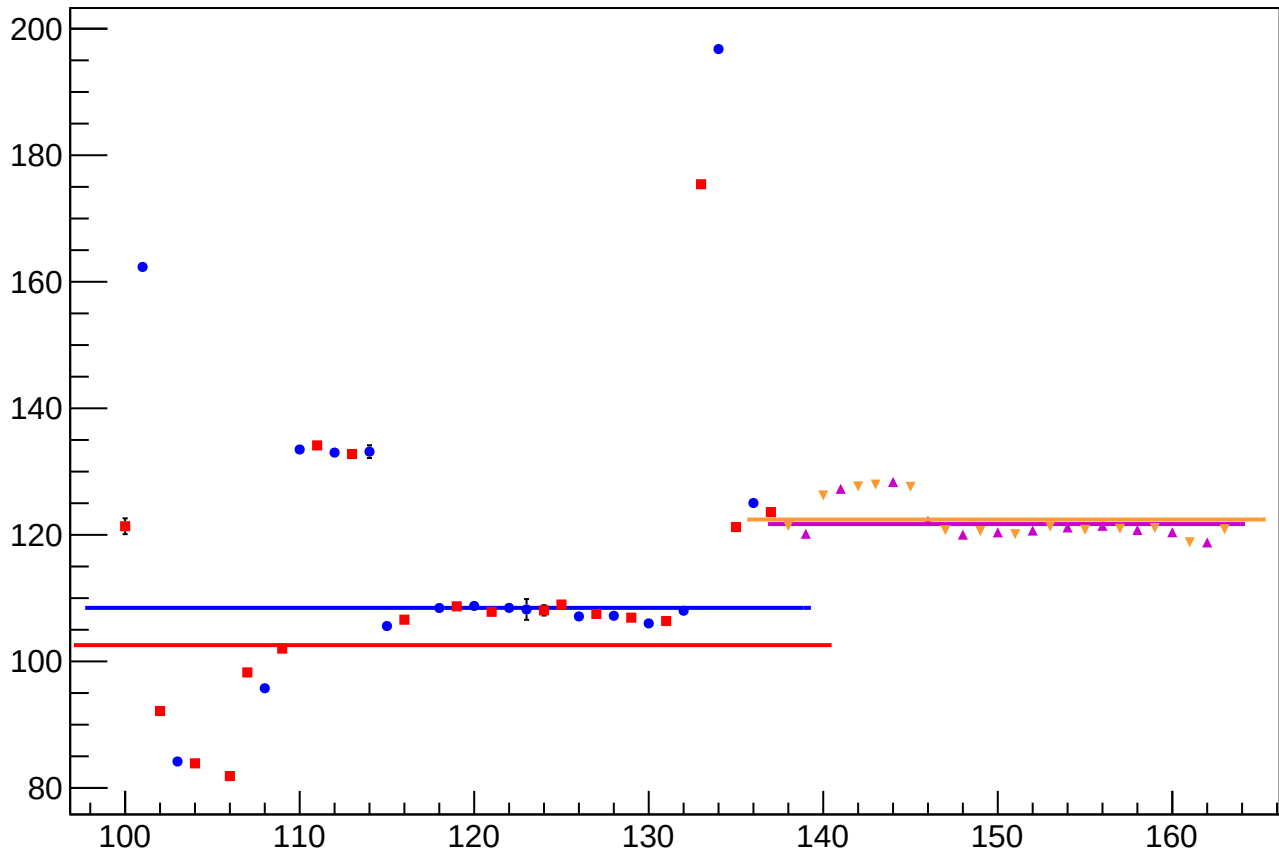
Left In:  $-69.440 \pm 1.134$   $\chi^2/\text{NDF}: 304.2/11$

+ sign  $-82.041 \pm 0.903$   $\chi^2/\text{NDF}: 1426.9/30$

All:  $-79.813 \pm 0.647$   $\chi^2/\text{NDF}: 2721.4/61$

- sign  $-77.465 \pm 0.927$   $\chi^2/\text{NDF}: 1282.0/30$

# reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 108.461 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 73302.1/16

Left Out: 122.424 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 3253.8/13

Right Out: 102.570 $\pm$ 0.079  $\chi^2/\text{NDF}$ : 53143.8/18

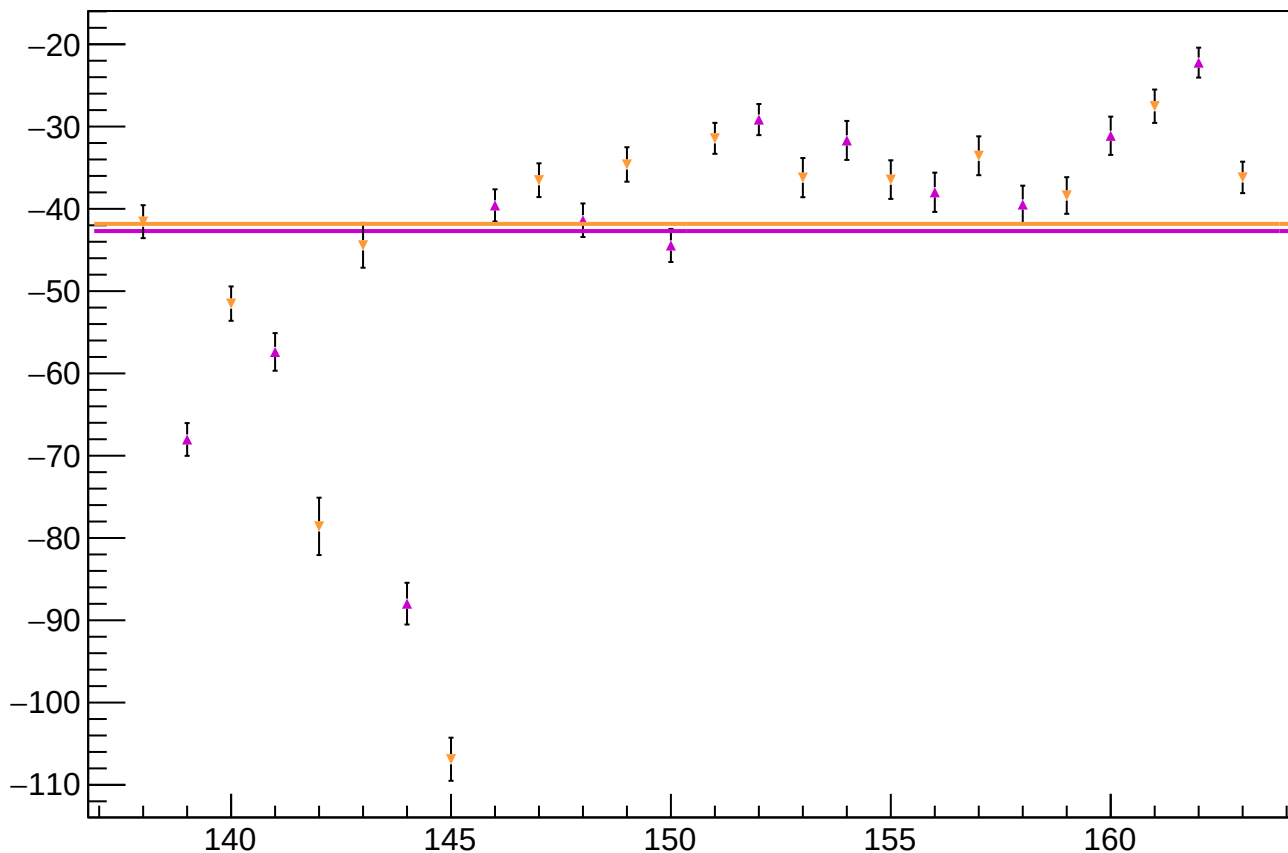
Left In: 121.706 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 2552.8/11

+ sign 118.543 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 96169.7/30

All: 117.095 $\pm$ 0.032  $\chi^2/\text{NDF}$ : 193592.9/61

- sign 115.643 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 95319.1/30

# reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.828+/-0.593  $\chi^2/\text{NDF}$ : 883.9/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

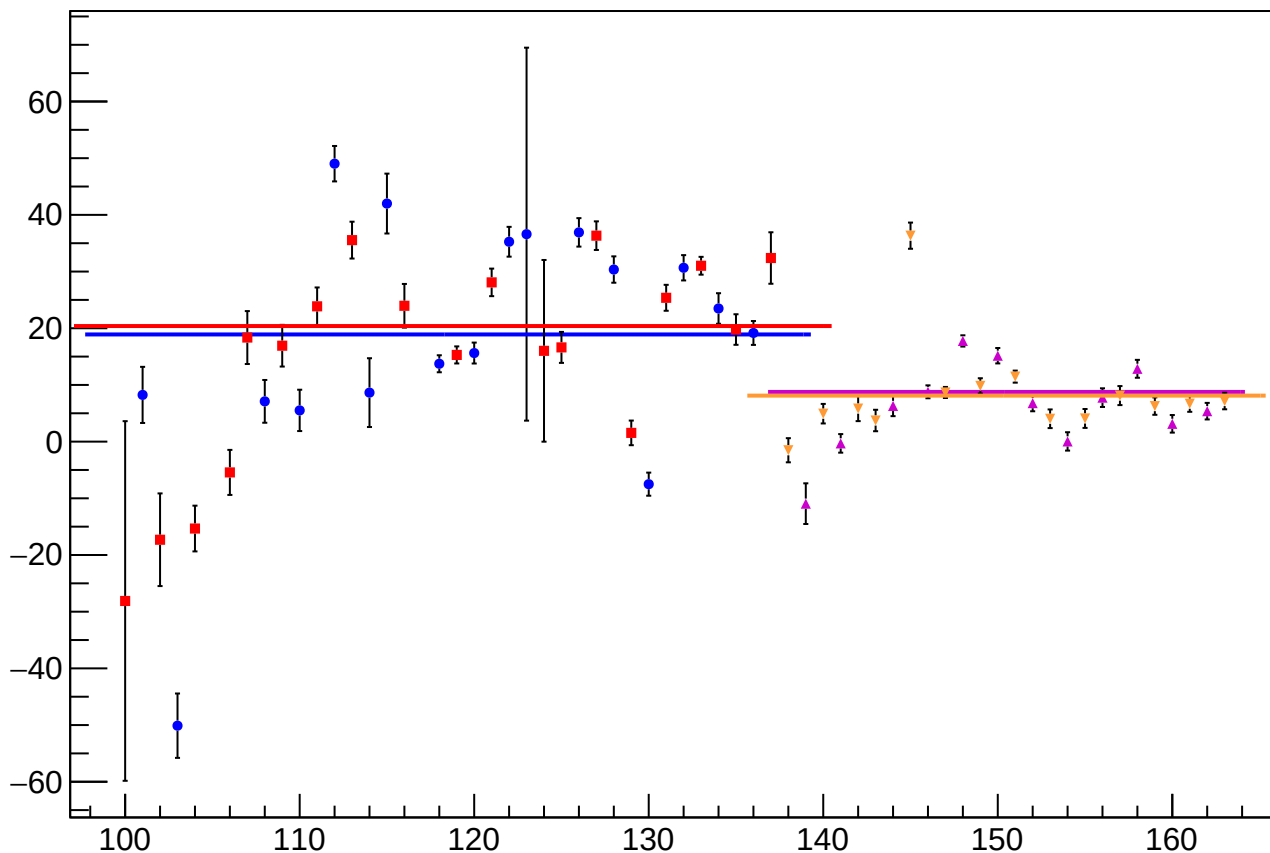
Left In: -42.700+/-0.613  $\chi^2/\text{NDF}$ : 756.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -42.249+/-0.426  $\chi^2/\text{NDF}$ : 1641.5/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $18.906 \pm 0.644$   $\chi^2/\text{NDF}$ : 618.9/16

Left Out:  $8.115 \pm 0.402$   $\chi^2/\text{NDF}$ : 206.2/13

Right Out:  $20.390 \pm 0.644$   $\chi^2/\text{NDF}$ : 365.3/18

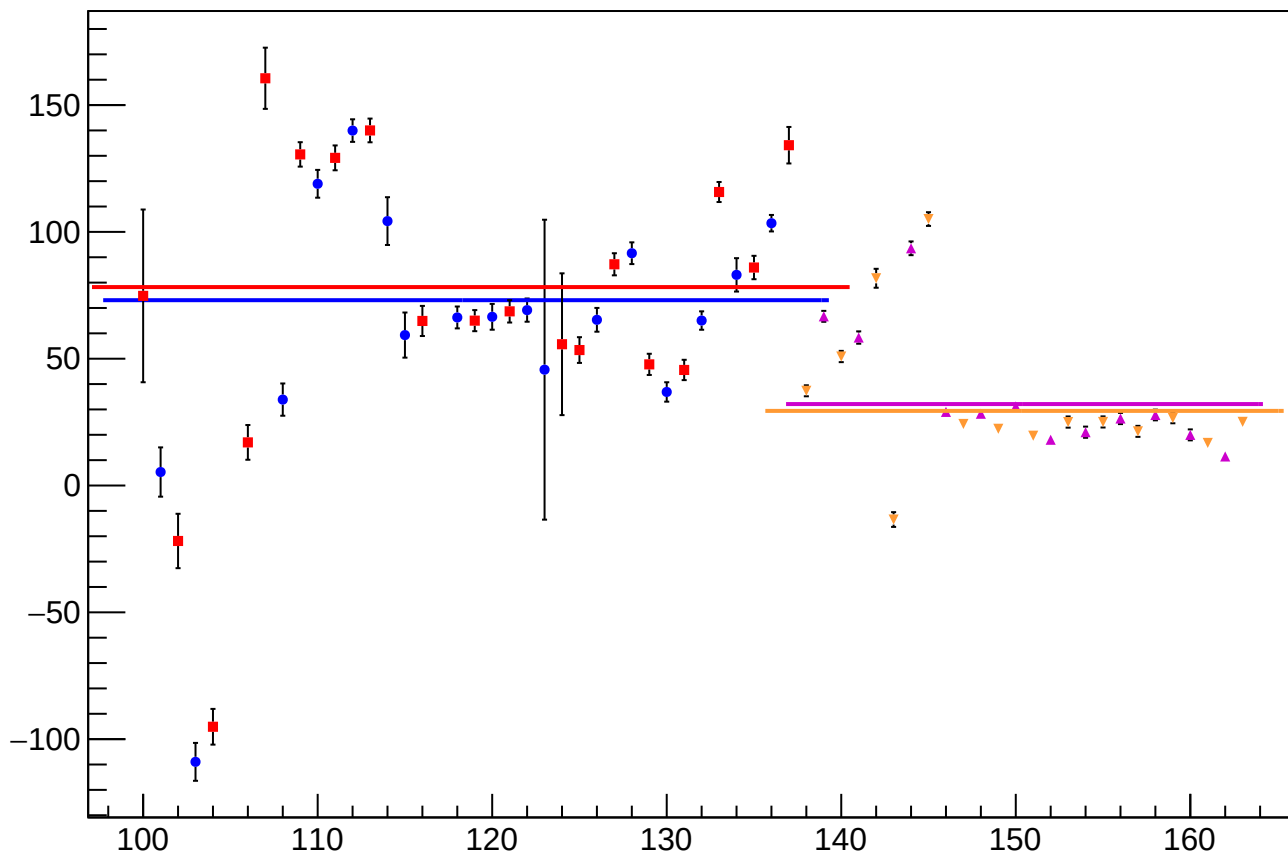
Left In:  $8.763 \pm 0.422$   $\chi^2/\text{NDF}$ : 223.5/11

+ sign  $11.145 \pm 0.341$   $\chi^2/\text{NDF}$ : 1027.4/30

All:  $11.684 \pm 0.245$   $\chi^2/\text{NDF}$ : 1849.3/61

- sign  $12.262 \pm 0.353$   $\chi^2/\text{NDF}$ : 816.7/30

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 73.071 $\pm$ 1.228  $\chi^2$ /NDF: 1200.0/16

Left Out: 29.424 $\pm$ 0.577  $\chi^2$ /NDF:1423.5/13

Right Out: 78.241 $\pm$ 1.223  $\chi^2$ /NDF: 1542.7/18

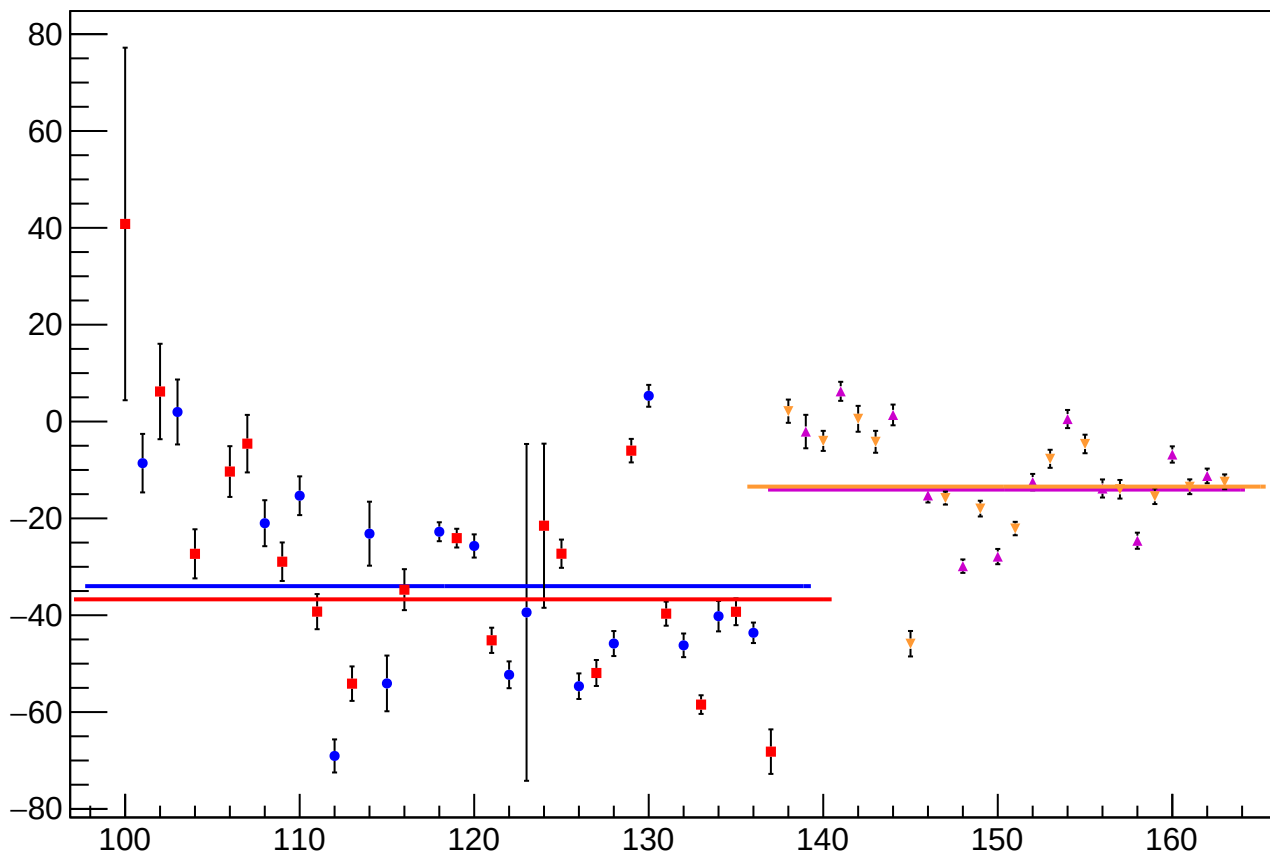
Left In: 32.117 $\pm$ 0.593  $\chi^2$ /NDF:1161.7/11

+ sign 37.322 $\pm$ 0.522  $\chi^2$ /NDF: 3658.5/30

All: 39.074 $\pm$ 0.373  $\chi^2$ /NDF: 7538.2/61

- sign 40.902 $\pm$ 0.534  $\chi^2$ /NDF: 3856.7/30

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-33.991 \pm 0.736$   $\chi^2/\text{NDF}$ : 719.8/16

Left Out:  $-13.438 \pm 0.476$   $\chi^2/\text{NDF}$ : 341.7/13

Right Out:  $-36.719 \pm 0.737$   $\chi^2/\text{NDF}$ : 542.9/18

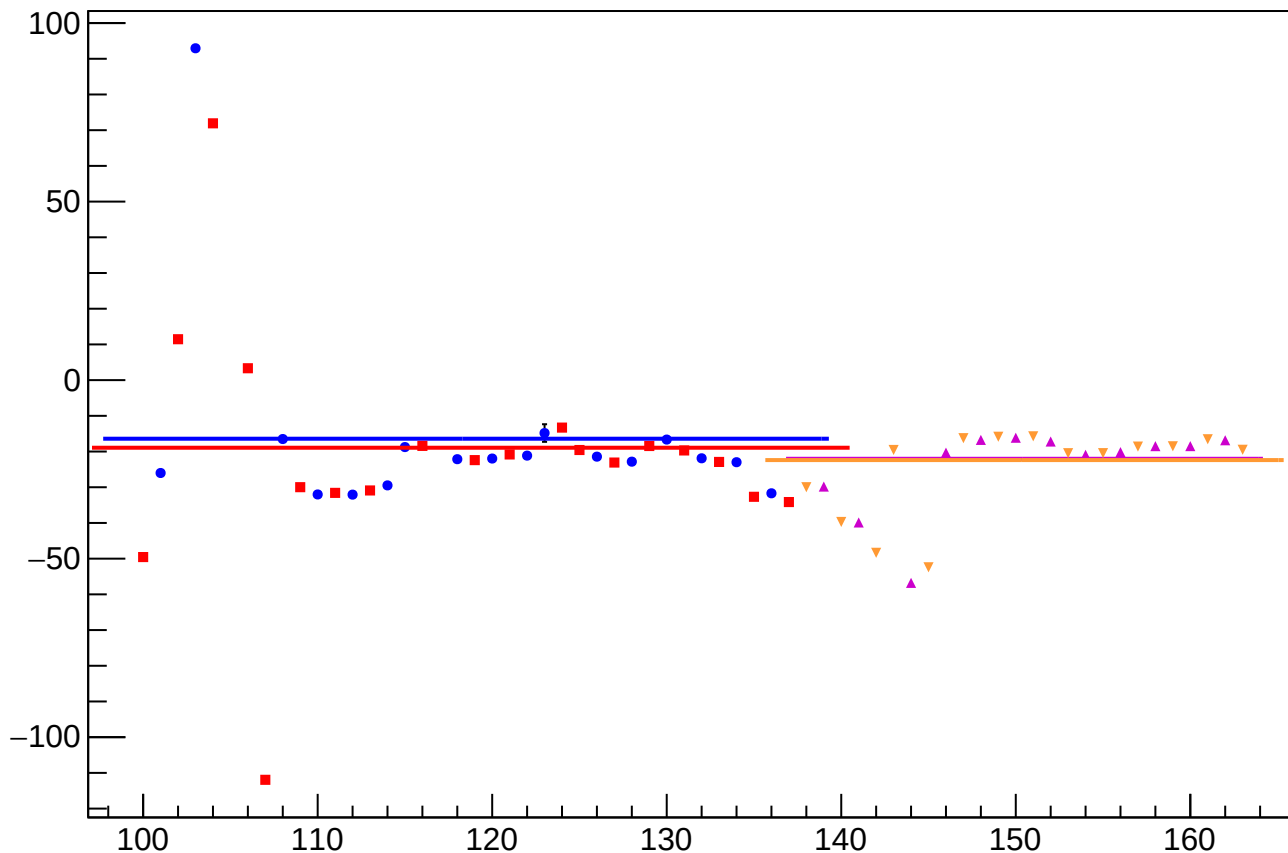
Left In:  $-14.051 \pm 0.499$   $\chi^2/\text{NDF}$ : 501.6/11

+ sign  $-19.497 \pm 0.400$   $\chi^2/\text{NDF}$ : 1611.1/30

All:  $-20.308 \pm 0.287$   $\chi^2/\text{NDF}$ : 3313.2/61

- sign  $-21.174 \pm 0.413$   $\chi^2/\text{NDF}$ : 1693.6/30

# reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-16.408 \pm 0.044$   $\chi^2/\text{NDF}: 474368.4/16$

Left Out:  $-22.394 \pm 0.023$   $\chi^2/\text{NDF}: 181979.7/13$

Right Out:  $-18.934 \pm 0.045$   $\chi^2/\text{NDF}: 434152.2/18$

Left In:  $-22.028 \pm 0.023$   $\chi^2/\text{NDF}: 154130.9/11$

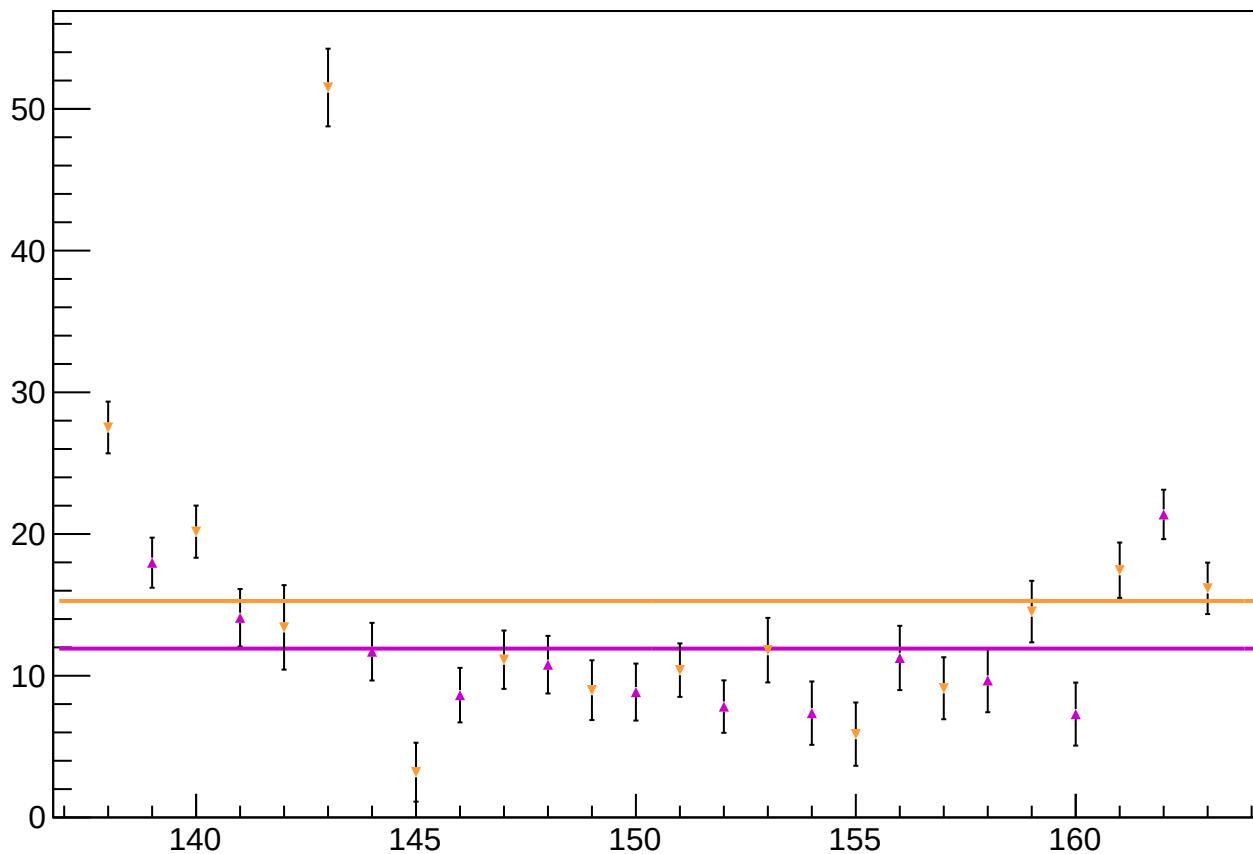
+ sign  $-21.165 \pm 0.020$   $\chi^2/\text{NDF}: 670779.1/30$

All:  $-21.275 \pm 0.014$   $\chi^2/\text{NDF}: 1262835.1/61$

- sign  $-21.389 \pm 0.021$   $\chi^2/\text{NDF}: 591995.3/30$



# reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.278 $\pm$ 0.560  $\chi^2/\text{NDF}$ : 310.0/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

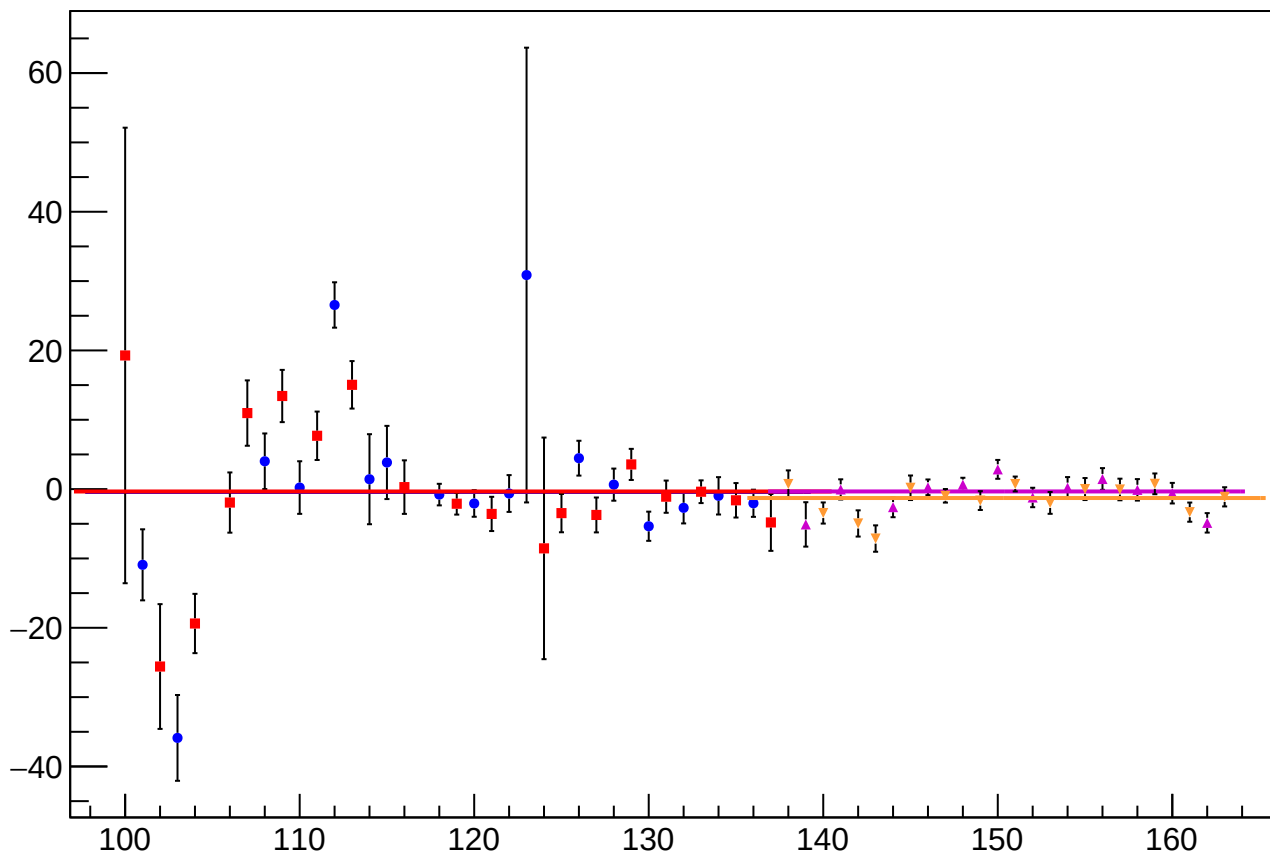
Left In: 11.916 $\pm$ 0.579  $\chi^2/\text{NDF}$ : 62.4/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 13.655 $\pm$ 0.402  $\chi^2/\text{NDF}$ : 389.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-0.414 \pm 0.653$   $\chi^2/\text{NDF}$ : 119.9/16

Left Out:  $-1.285 \pm 0.386$   $\chi^2/\text{NDF}$ : 26.3/13

Right Out:  $-0.342 \pm 0.658$   $\chi^2/\text{NDF}$ : 83.7/18

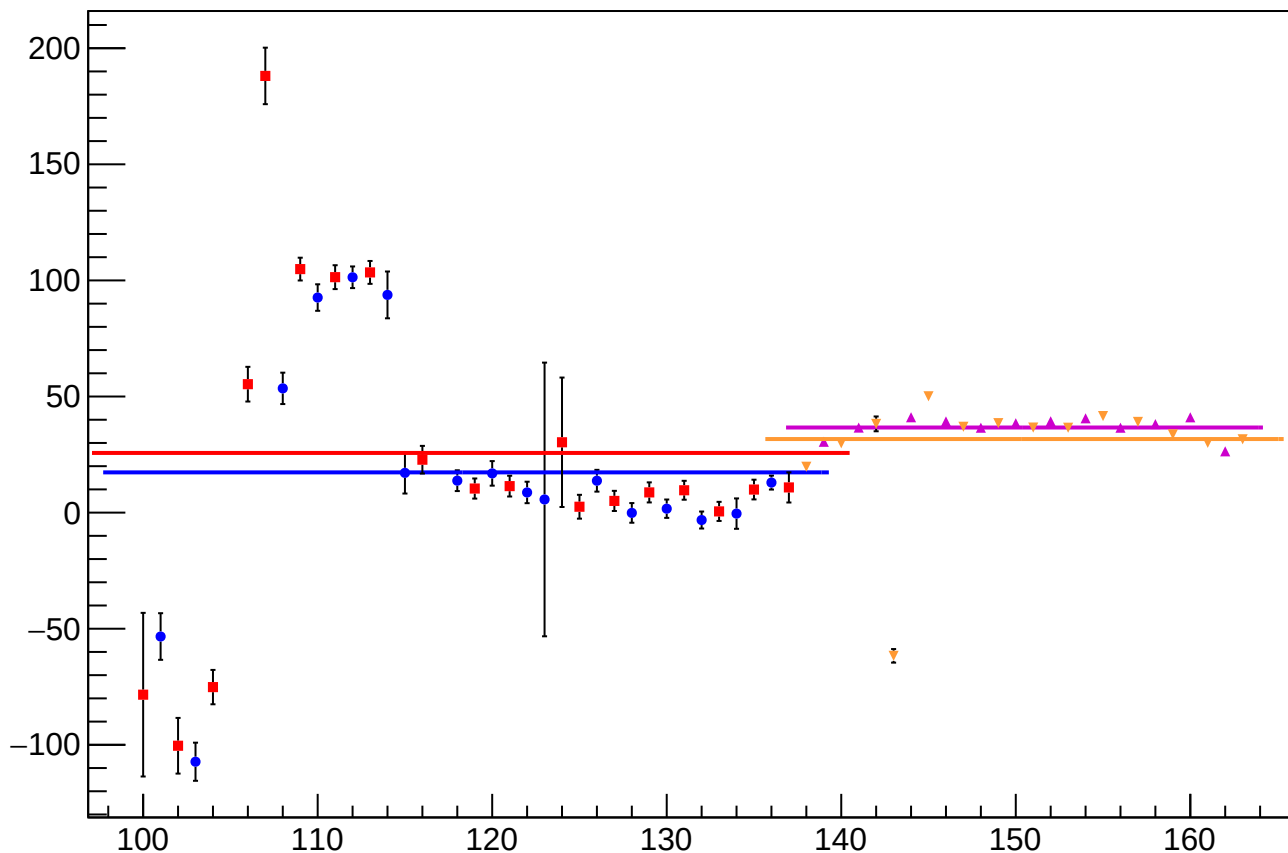
Left In:  $-0.336 \pm 0.405$   $\chi^2/\text{NDF}$ : 23.7/11

+ sign  $-1.060 \pm 0.332$   $\chi^2/\text{NDF}$ : 147.5/30

All:  $-0.712 \pm 0.239$   $\chi^2/\text{NDF}$ : 257.2/61

- sign  $-0.338 \pm 0.345$   $\chi^2/\text{NDF}$ : 107.4/30

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 17.328+/-1.239  $\chi^2/\text{NDF}$ : 943.2/16

Left Out: 31.687+/-0.548  $\chi^2/\text{NDF}$ : 1200.8/13

Right Out: 25.701+/-1.243  $\chi^2/\text{NDF}$ : 1379.1/18

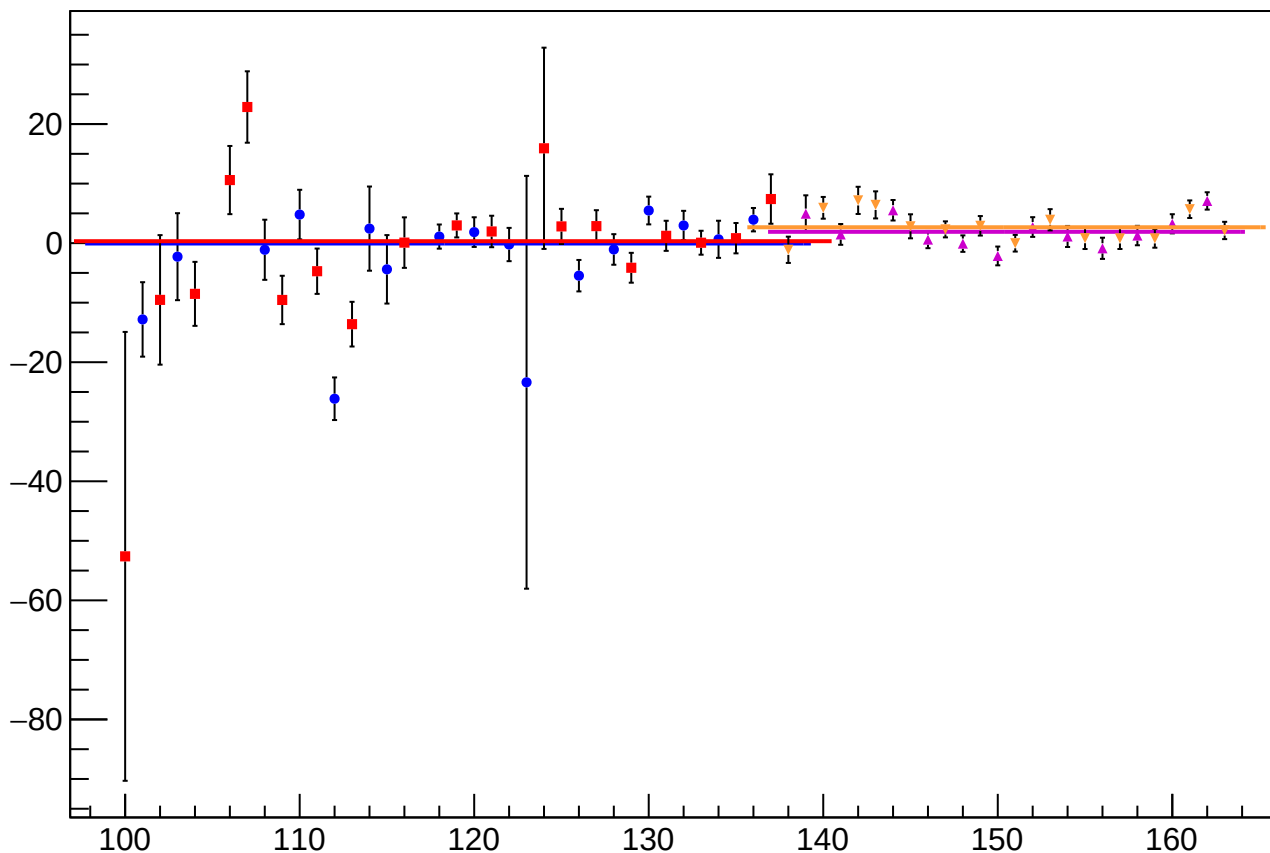
Left In: 36.653+/-0.563  $\chi^2/\text{NDF}$ : 65.8/11

+ sign 29.339+/-0.501  $\chi^2/\text{NDF}$ : 2256.4/30

All: 31.997+/-0.358  $\chi^2/\text{NDF}$ : 3823.4/61

- sign 34.786+/-0.513  $\chi^2/\text{NDF}$ : 1509.3/30

# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-0.059 \pm 0.744$   $\chi^2/\text{NDF}$ : 76.5/16

Left Out:  $2.666 \pm 0.455$   $\chi^2/\text{NDF}$ : 24.9/13

Right Out:  $0.326 \pm 0.749$   $\chi^2/\text{NDF}$ : 55.1/18

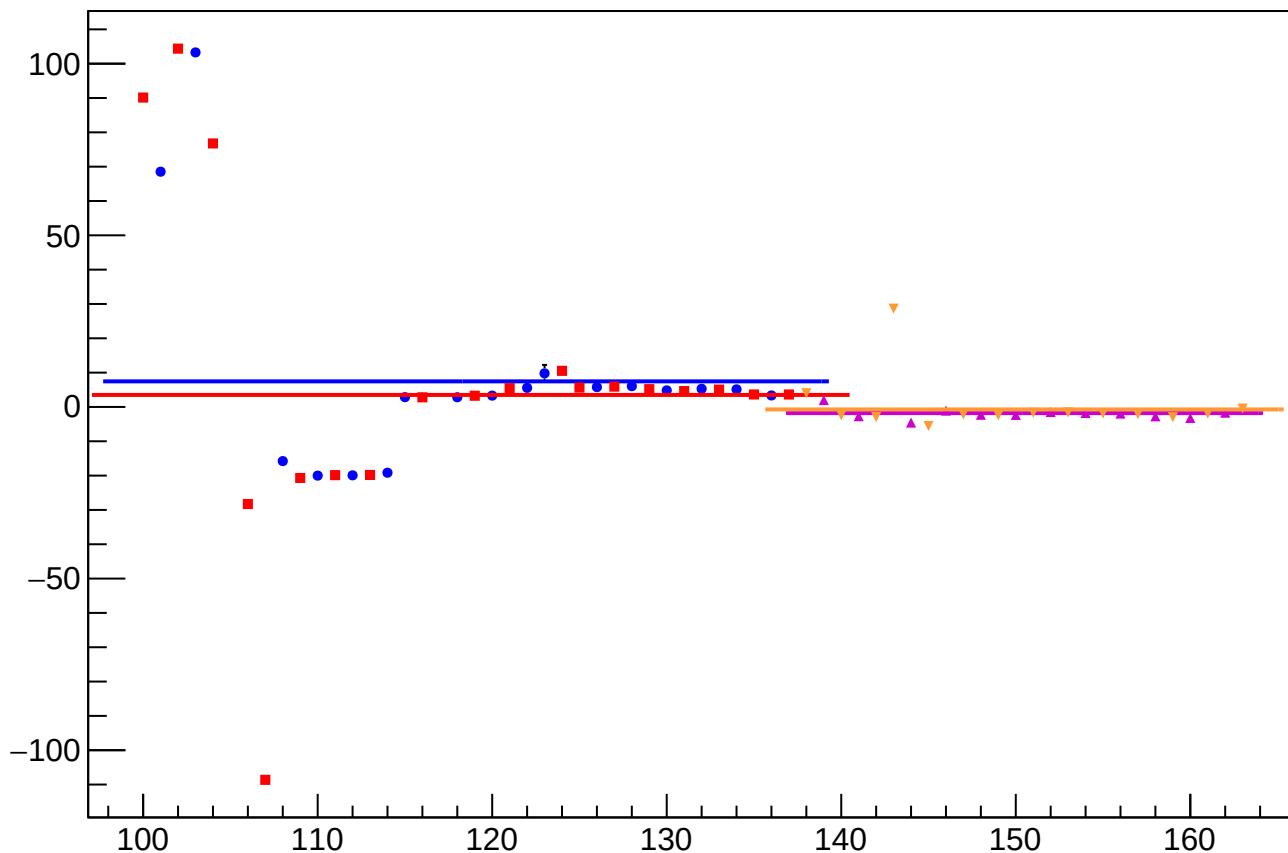
Left In:  $1.903 \pm 0.476$   $\chi^2/\text{NDF}$ : 31.3/11

+ sign  $1.925 \pm 0.388$   $\chi^2/\text{NDF}$ : 111.2/30

All:  $1.695 \pm 0.279$   $\chi^2/\text{NDF}$ : 201.5/61

- sign  $1.449 \pm 0.402$   $\chi^2/\text{NDF}$ : 89.6/30

# reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 7.454 $\pm$ 0.044  $\chi^2$ /NDF: 356053.3/16

Left Out: -0.718 $\pm$ 0.021  $\chi^2$ /NDF: 73458.8/13

Right Out: 3.502 $\pm$ 0.046  $\chi^2$ /NDF: 510579.7/18

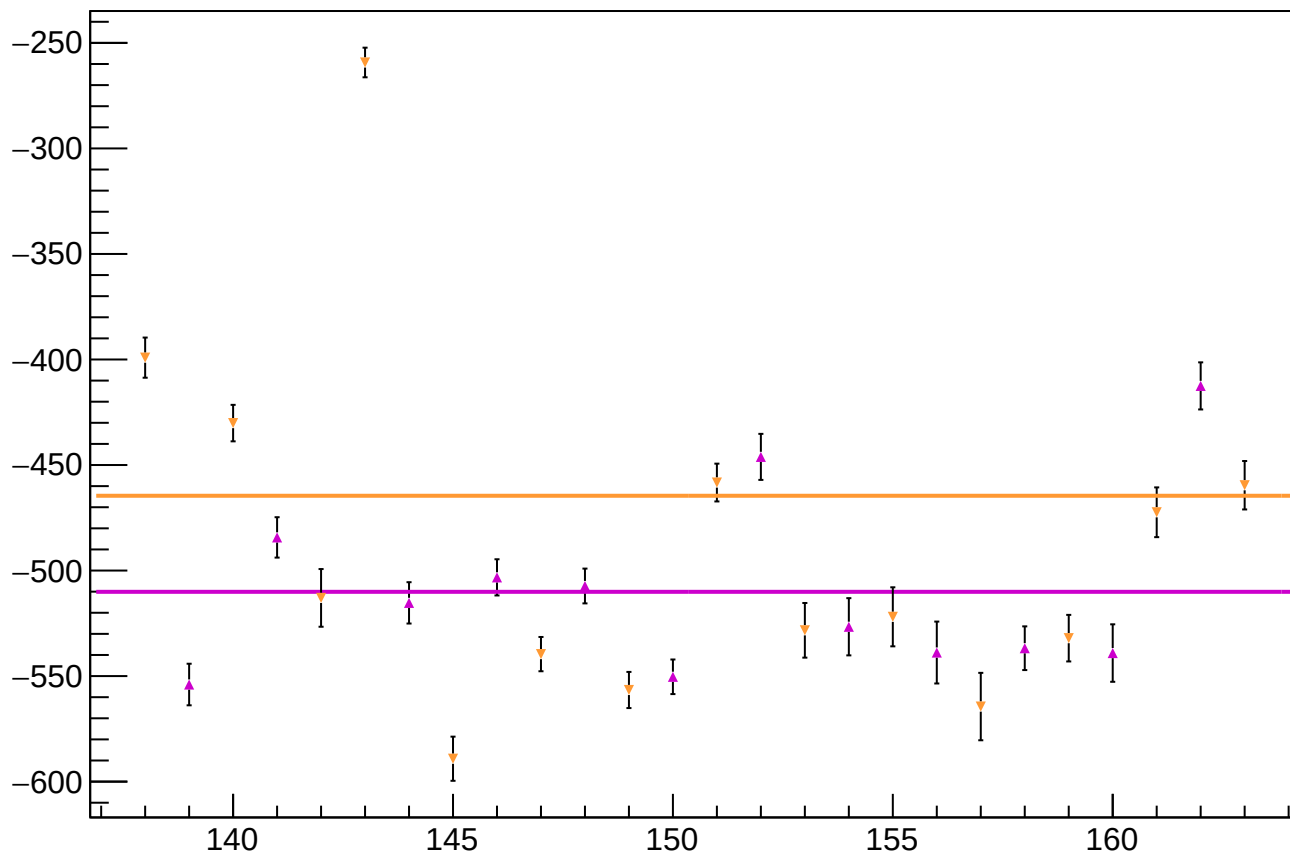
Left In: -1.791 $\pm$ 0.022  $\chi^2$ /NDF: 4805.1/11

+ sign 0.816 $\pm$ 0.019  $\chi^2$ /NDF: 457003.2/30

All: 0.030 $\pm$ 0.014  $\chi^2$ /NDF: 986783.7/61

- sign -0.797 $\pm$ 0.020  $\chi^2$ /NDF: 526355.3/30

# reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-464.563 \pm 2.687$   $\chi^2/\text{NDF}$ : 1392.8/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

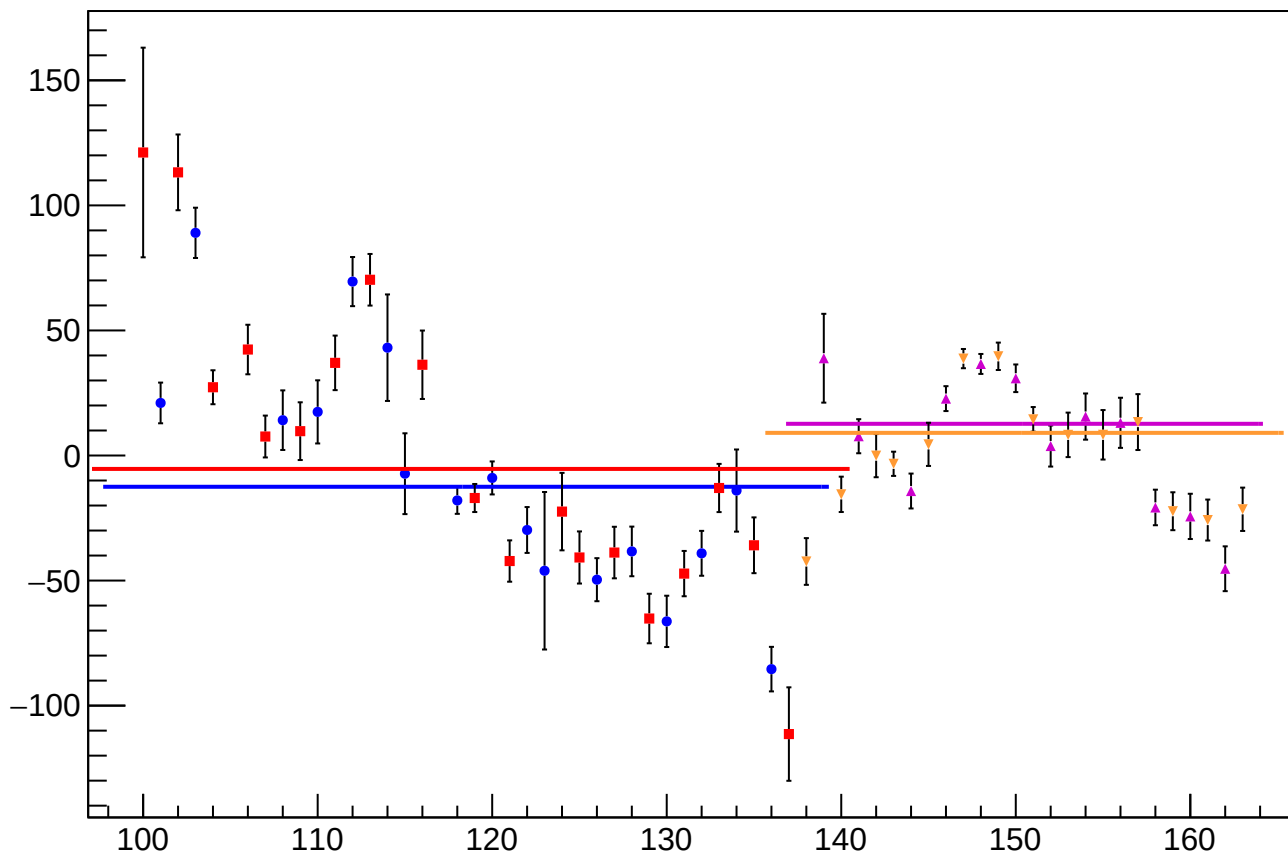
Left In:  $-510.777 \pm 2.934$   $\chi^2/\text{NDF}$ : 179.7/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-485.319 \pm 1.982$   $\chi^2/\text{NDF}$ : 1703.4/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-12.500 \pm 2.311$   $\chi^2/\text{NDF}$ : 341.1/16

Left Out:  $9.057 \pm 1.769$   $\chi^2/\text{NDF}$ : 190.2/13

Right Out:  $-5.363 \pm 2.264$   $\chi^2/\text{NDF}$ : 344.6/18

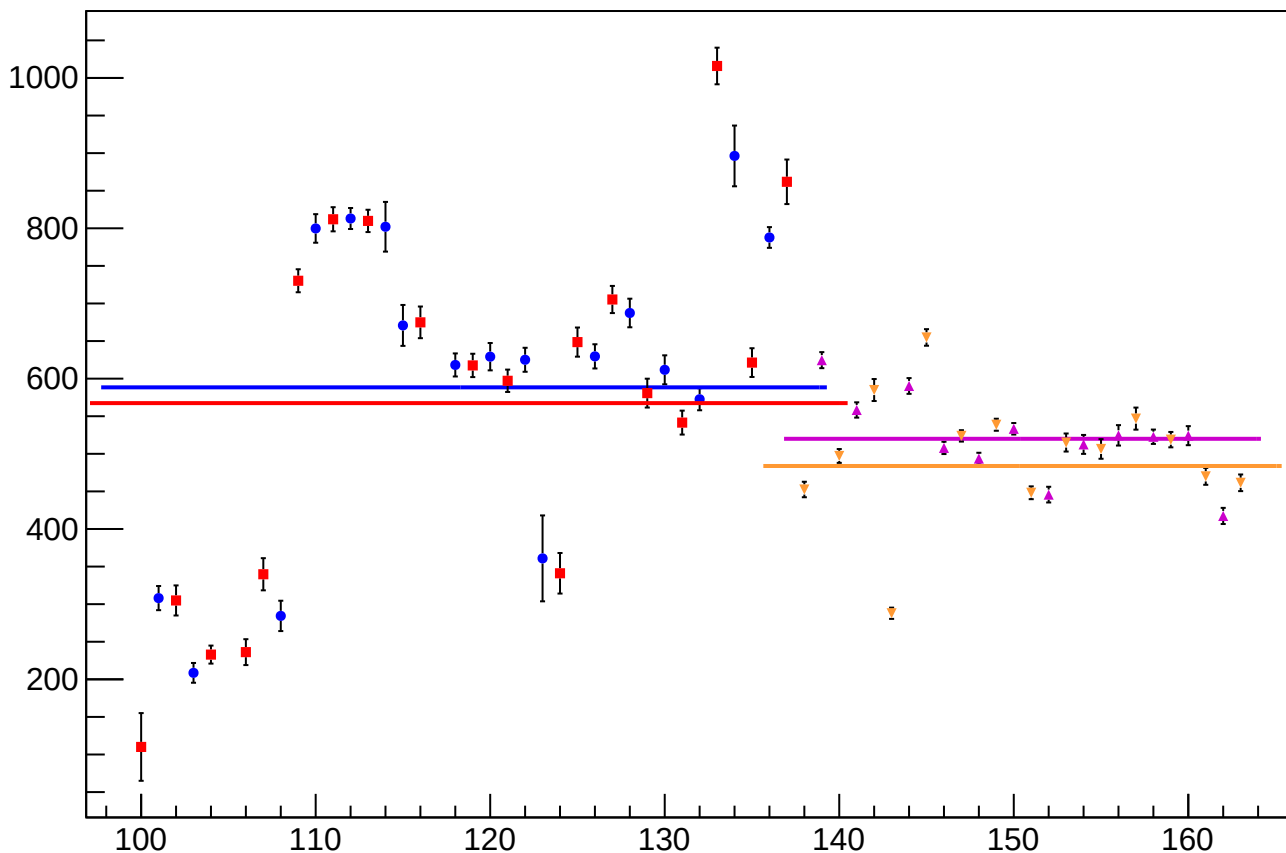
Left In:  $12.676 \pm 1.953$   $\chi^2/\text{NDF}$ : 150.5/11

+ sign  $1.094 \pm 1.405$   $\chi^2/\text{NDF}$ : 586.1/30

All:  $2.938 \pm 1.018$   $\chi^2/\text{NDF}$ : 1121.2/61

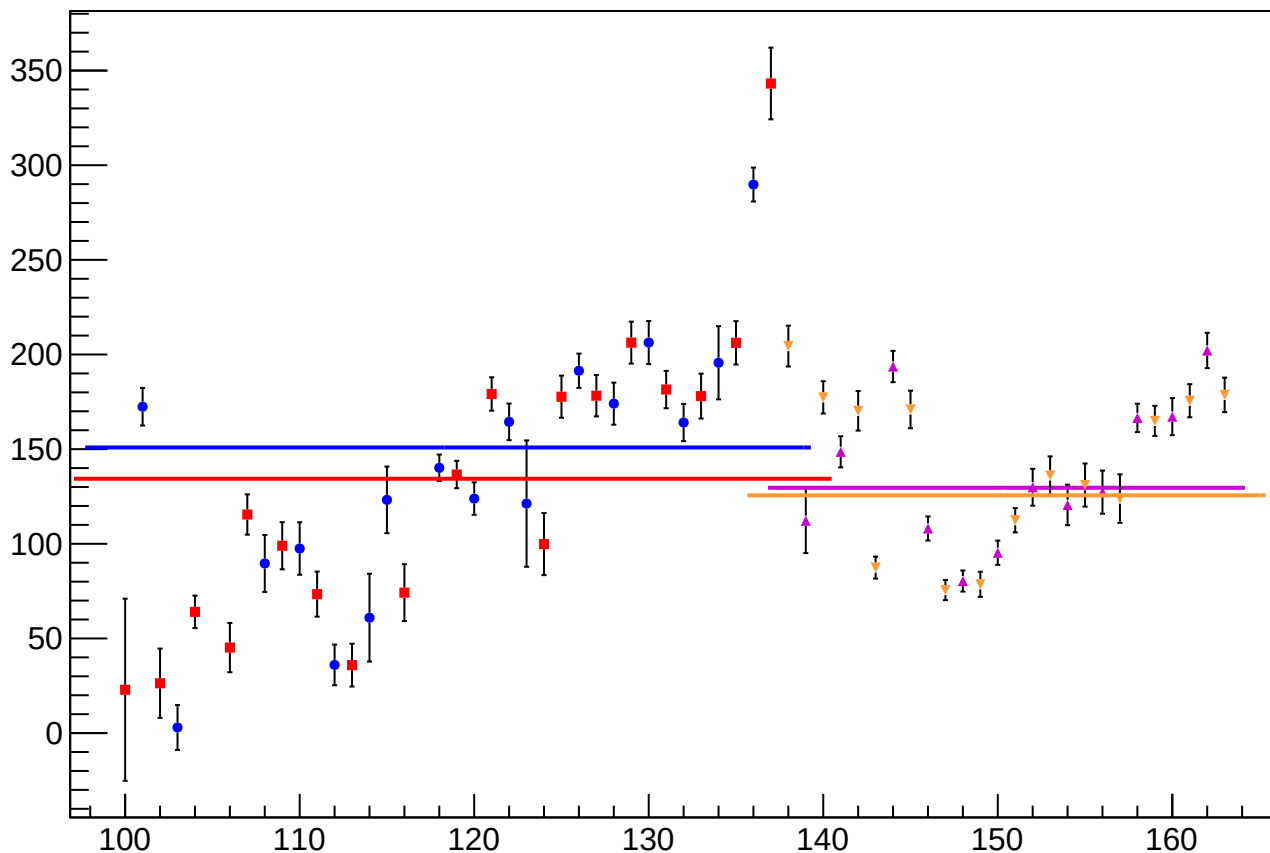
- sign  $4.981 \pm 1.479$   $\chi^2/\text{NDF}$ : 531.4/30

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug





# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $150.891 \pm 2.674$   $\chi^2/\text{NDF}: 634.8/16$

Left Out:  $125.622 \pm 2.140$   $\chi^2/\text{NDF}: 408.6/13$

Right Out:  $134.381 \pm 2.620$   $\chi^2/\text{NDF}: 584.9/18$

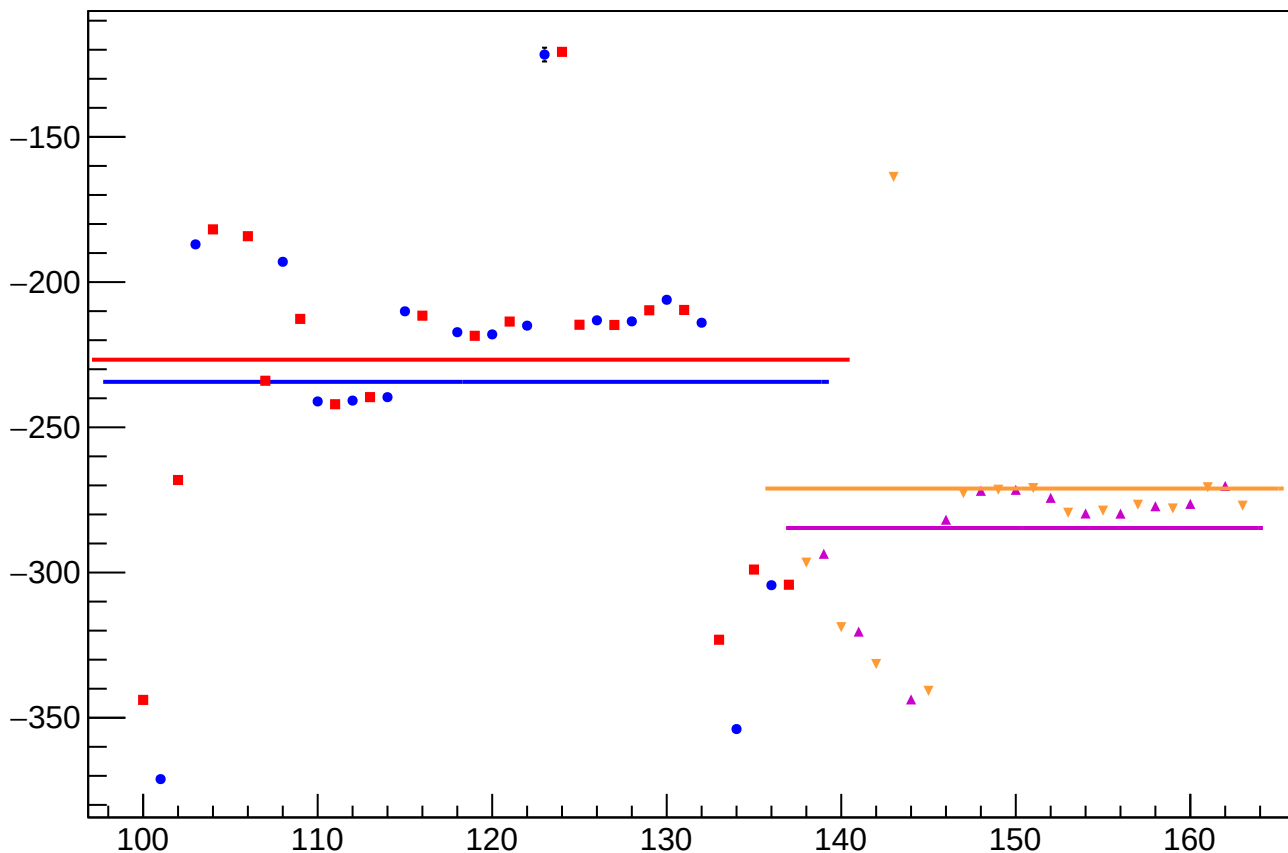
Left In:  $129.605 \pm 2.353$   $\chi^2/\text{NDF}: 284.6/11$

+ sign  $135.487 \pm 1.671$   $\chi^2/\text{NDF}: 1097.8/30$

All:  $133.699 \pm 1.209$   $\chi^2/\text{NDF}: 1971.5/61$

- sign  $131.737 \pm 1.750$   $\chi^2/\text{NDF}: 871.3/30$

# reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-234.341 \pm 0.148$   $\chi^2/\text{NDF}$ : 145165.1/16

Left Out:  $-271.076 \pm 0.107$   $\chi^2/\text{NDF}$ : 182864.5/13

Right Out:  $-226.716 \pm 0.141$   $\chi^2/\text{NDF}$ : 99440.4/18

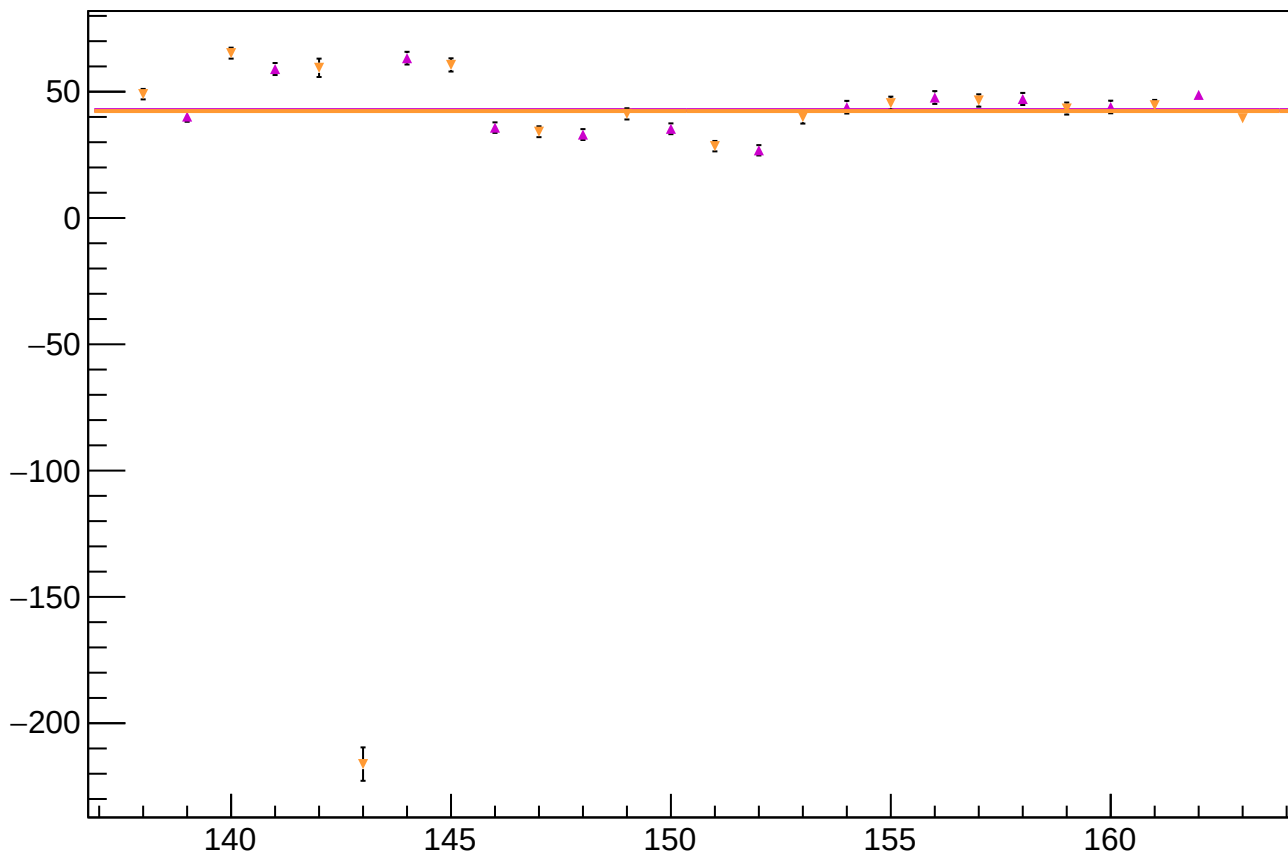
Left In:  $-284.666 \pm 0.113$   $\chi^2/\text{NDF}$ : 30666.0/11

+ sign  $-258.516 \pm 0.087$   $\chi^2/\text{NDF}$ : 368405.8/30

All:  $-260.208 \pm 0.062$   $\chi^2/\text{NDF}$ : 601570.2/61

- sign  $-261.968 \pm 0.088$   $\chi^2/\text{NDF}$ : 232387.6/30

# reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 42.336+/-0.637  $\chi^2/\text{NDF}$ :1790.0/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

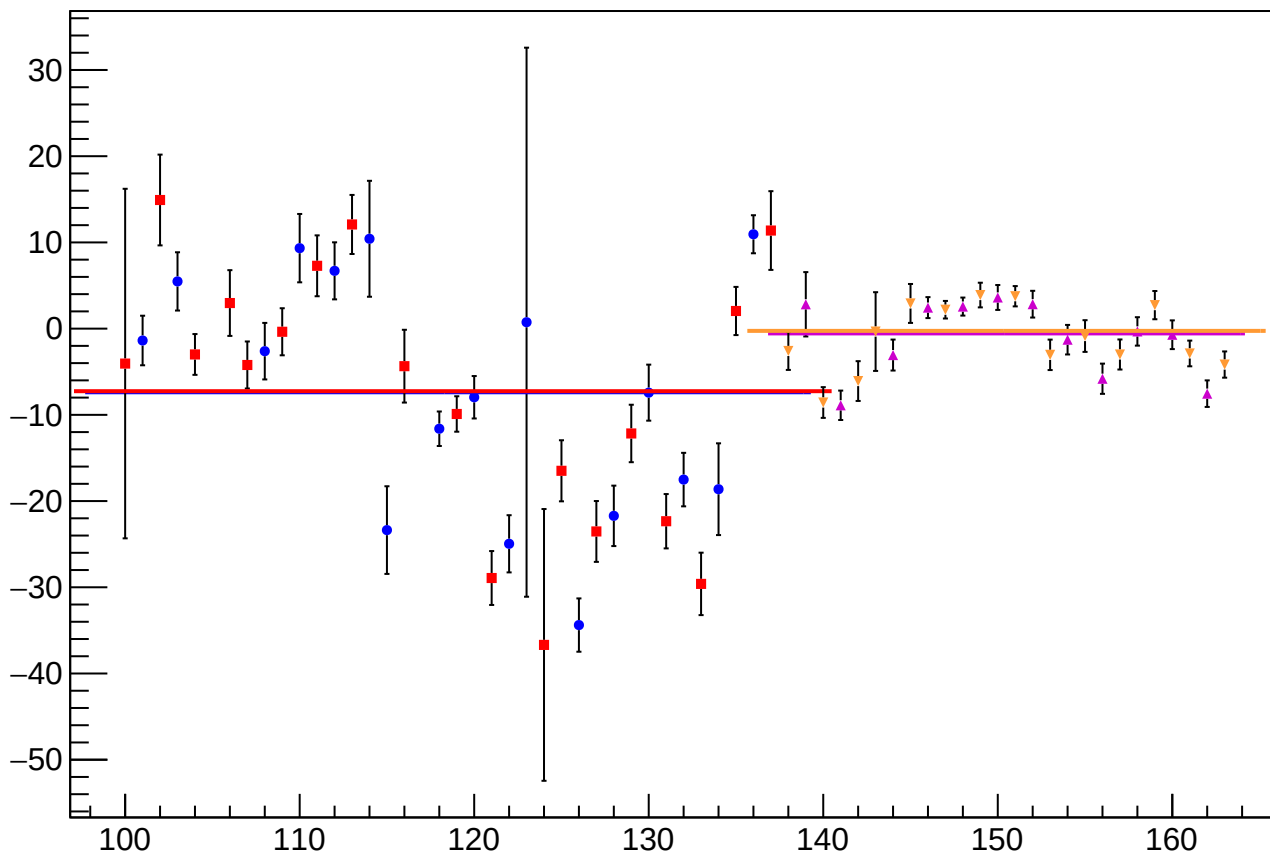
Left In: 42.707+/-0.646  $\chi^2/\text{NDF}$ :236.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 42.519+/-0.454  $\chi^2/\text{NDF}$ : 2026.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-7.381 \pm 0.779$   $\chi^2/\text{NDF}$ : 283.6/16

Left Out:  $-0.260 \pm 0.433$   $\chi^2/\text{NDF}$ : 75.1/13

Right Out:  $-7.256 \pm 0.762$   $\chi^2/\text{NDF}$ : 257.3/18

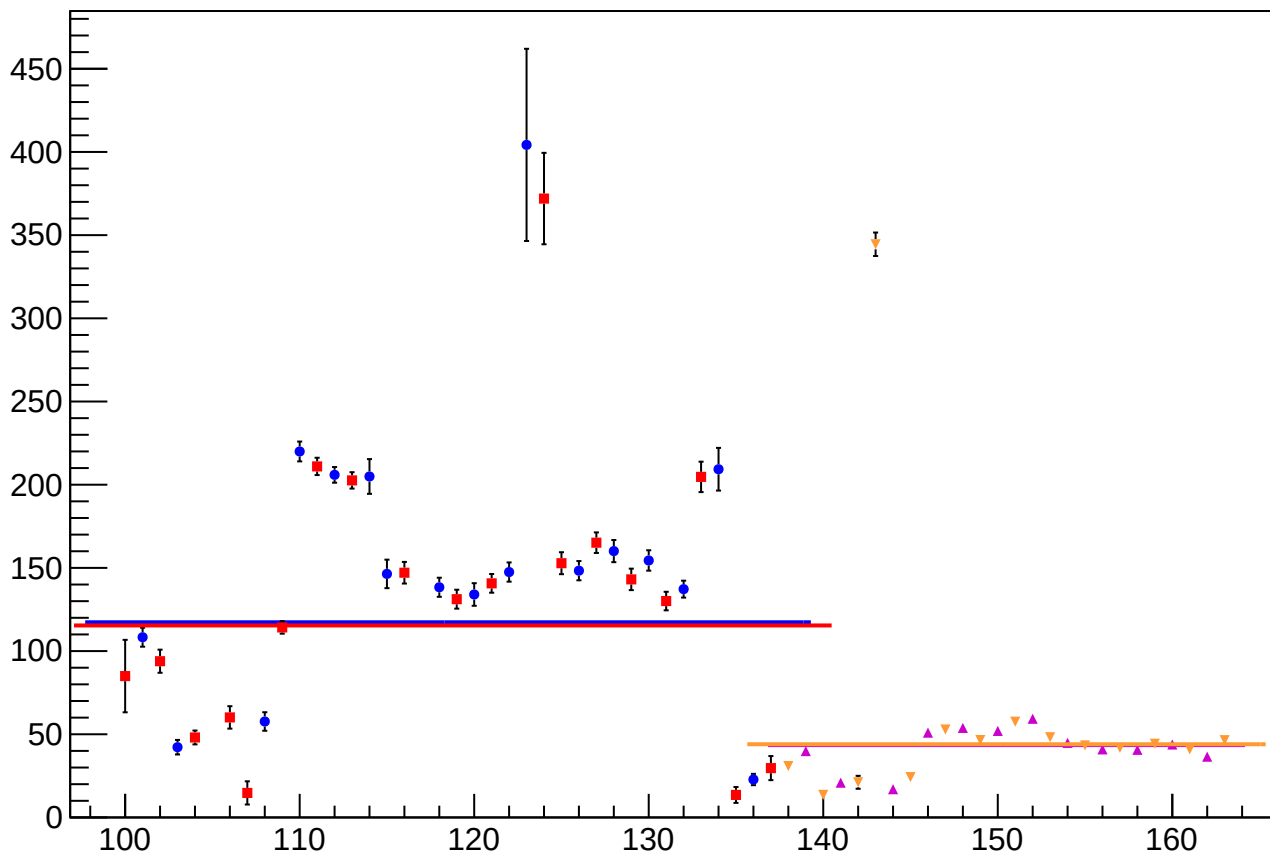
Left In:  $-0.554 \pm 0.446$   $\chi^2/\text{NDF}$ : 84.5/11

+ sign  $-1.944 \pm 0.379$   $\chi^2/\text{NDF}$ : 422.6/30

All:  $-2.101 \pm 0.270$   $\chi^2/\text{NDF}$ : 822.4/61

- sign  $-2.264 \pm 0.385$   $\chi^2/\text{NDF}$ : 399.5/30

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 117.302 $\pm$ 1.409  $\chi^2$ /NDF: 2161.3/16

Left Out: 43.995 $\pm$ 0.619  $\chi^2$ /NDF:2183.7/13

Right Out: 115.405 $\pm$ 1.361  $\chi^2$ /NDF: 2150.5/18

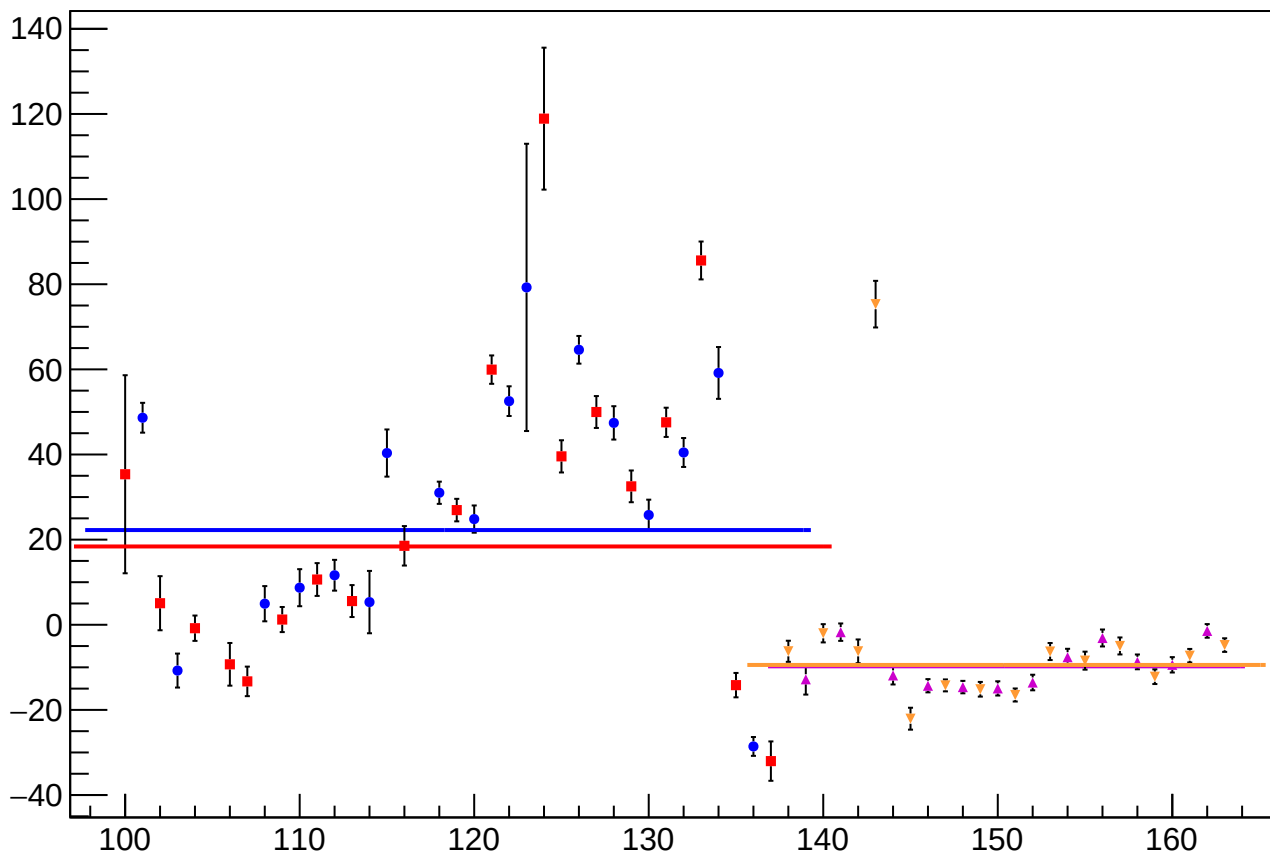
Left In: 43.487 $\pm$ 0.626  $\chi^2$ /NDF:320.9/11

+ sign 55.872 $\pm$ 0.567  $\chi^2$ /NDF: 6614.7/30

All: 55.961 $\pm$ 0.402  $\chi^2$ /NDF: 11392.0/61

- sign 56.050 $\pm$ 0.569  $\chi^2$ /NDF: 4777.2/30

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In: 22.250 $\pm$ 0.889  $\chi^2$ /NDF: 1071.4/16

Left Out: -9.440 $\pm$ 0.512  $\chi^2$ /NDF: 343.3/13

Right Out: 18.395 $\pm$ 0.872  $\chi^2$ /NDF: 1077.1/18

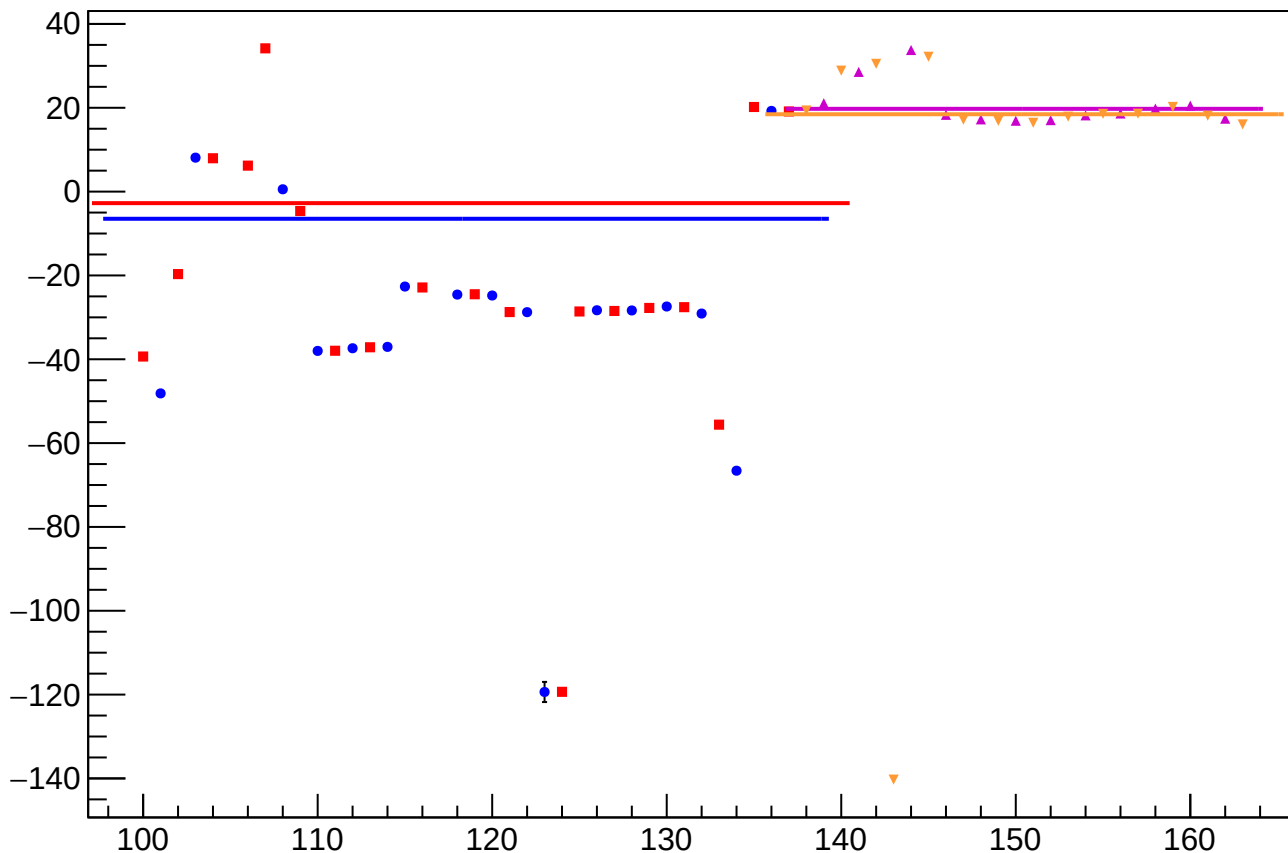
Left In: -9.766 $\pm$ 0.526  $\chi^2$ /NDF: 90.5/11

+ sign -1.543 $\pm$ 0.444  $\chi^2$ /NDF: 2368.4/30

All: -1.887 $\pm$ 0.316  $\chi^2$ /NDF: 4301.9/61

- sign -2.241 $\pm$ 0.451  $\chi^2$ /NDF: 1932.2/30

# reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $-6.482 \pm 0.046$   $\chi^2/\text{NDF}: 265804.1/16$

Left Out:  $18.455 \pm 0.024$   $\chi^2/\text{NDF}: 350105.5/13$

Right Out:  $-2.751 \pm 0.046$   $\chi^2/\text{NDF}: 266291.4/18$

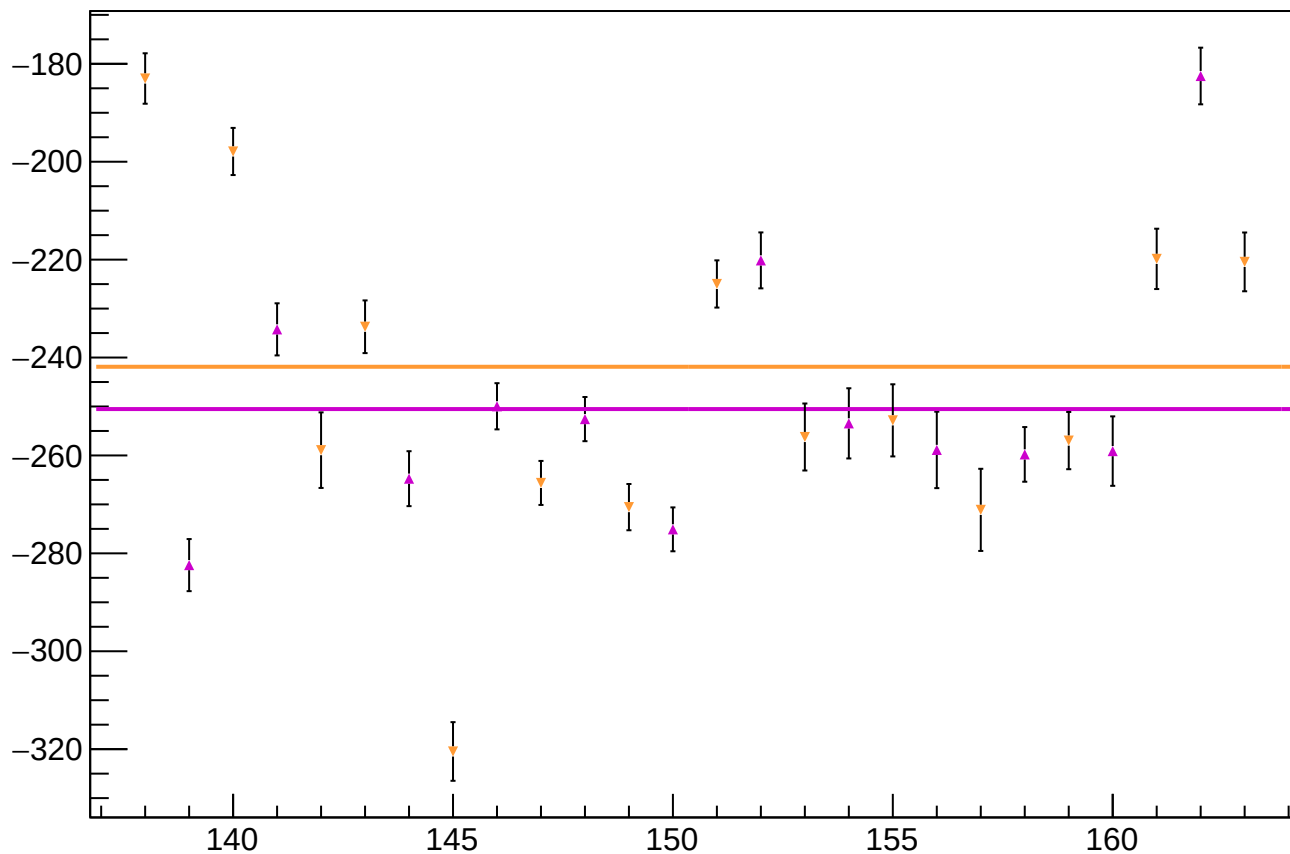
Left In:  $19.750 \pm 0.024$   $\chi^2/\text{NDF}: 27063.6/11$

+ sign  $13.076 \pm 0.021$   $\chi^2/\text{NDF}: 844782.9/30$

All:  $13.918 \pm 0.015$   $\chi^2/\text{NDF}: 1330115.7/61$

- sign  $14.765 \pm 0.022$   $\chi^2/\text{NDF}: 482239.9/30$

# reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -241.885+/-1.517  $\chi^2/\text{NDF}$ : 521.2/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -250.526+/-1.592  $\chi^2/\text{NDF}$ : 254.0/11

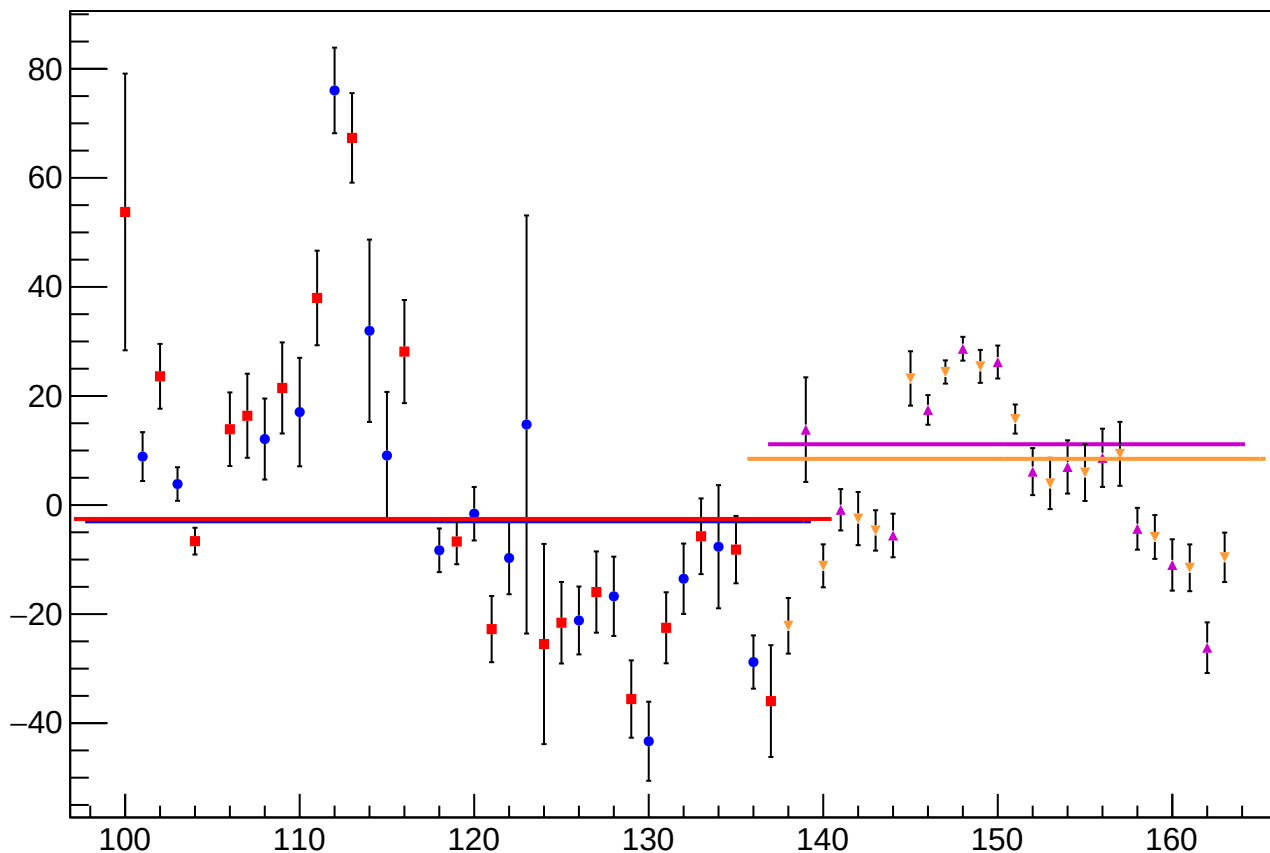
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -245.996+/-1.098  $\chi^2/\text{NDF}$ : 790.6/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $-2.981 \pm 1.450$   $\chi^2/\text{NDF}$ : 203.9/16

Left Out:  $8.478 \pm 0.998$   $\chi^2/\text{NDF}$ : 233.4/13

Right Out:  $-2.548 \pm 1.399$   $\chi^2/\text{NDF}$ : 218.1/18

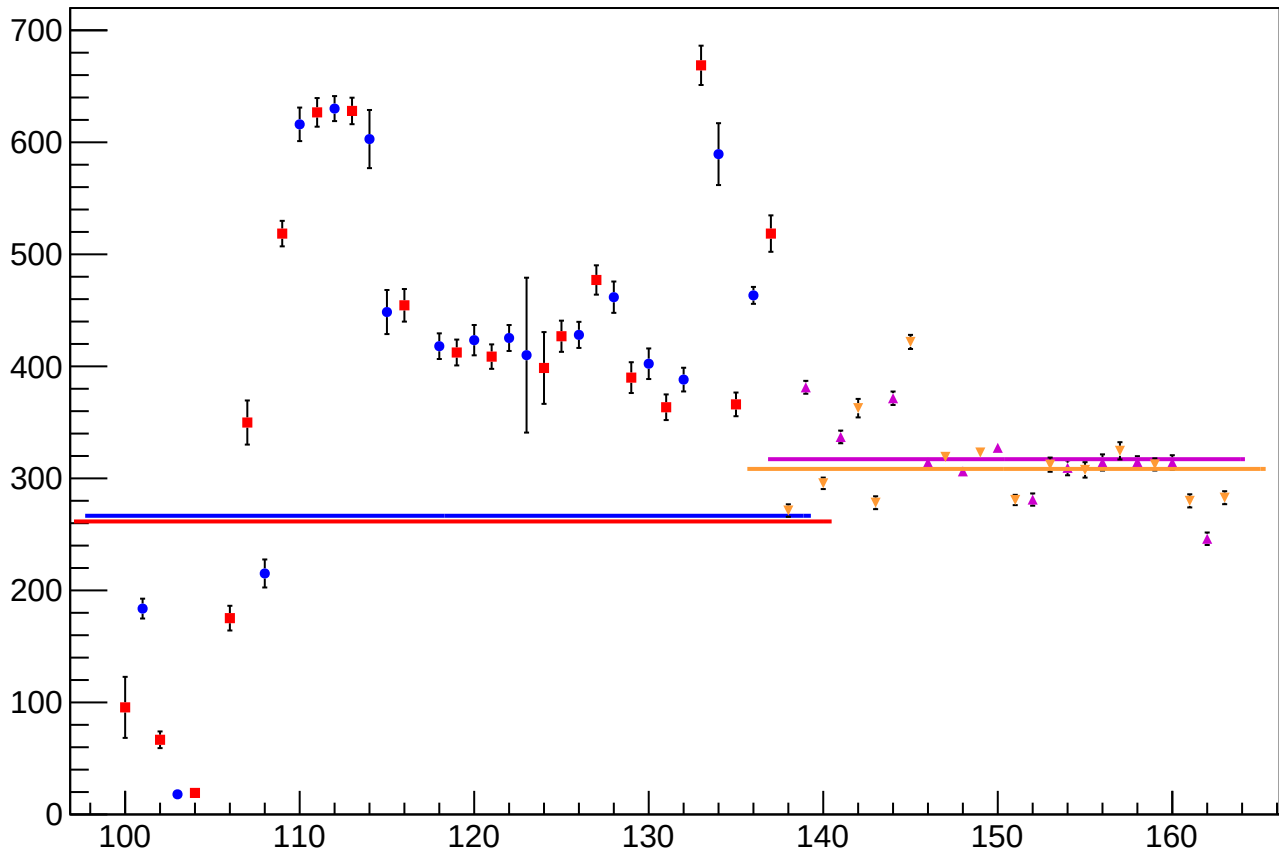
Left In:  $11.150 \pm 1.062$   $\chi^2/\text{NDF}$ : 227.3/11

+ sign  $4.796 \pm 0.822$   $\chi^2/\text{NDF}$ : 479.7/30

All:  $5.450 \pm 0.589$   $\chi^2/\text{NDF}$ : 987.2/61

- sign  $6.143 \pm 0.846$   $\chi^2/\text{NDF}$ : 506.2/30

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: 266.624 $\pm$ 2.477  $\chi^2$ /NDF: 7662.7/16

Left Out: 308.452 $\pm$ 1.489  $\chi^2$ /NDF: 548.2/13

Right Out: 261.551 $\pm$ 2.458  $\chi^2$ /NDF: 8208.2/18

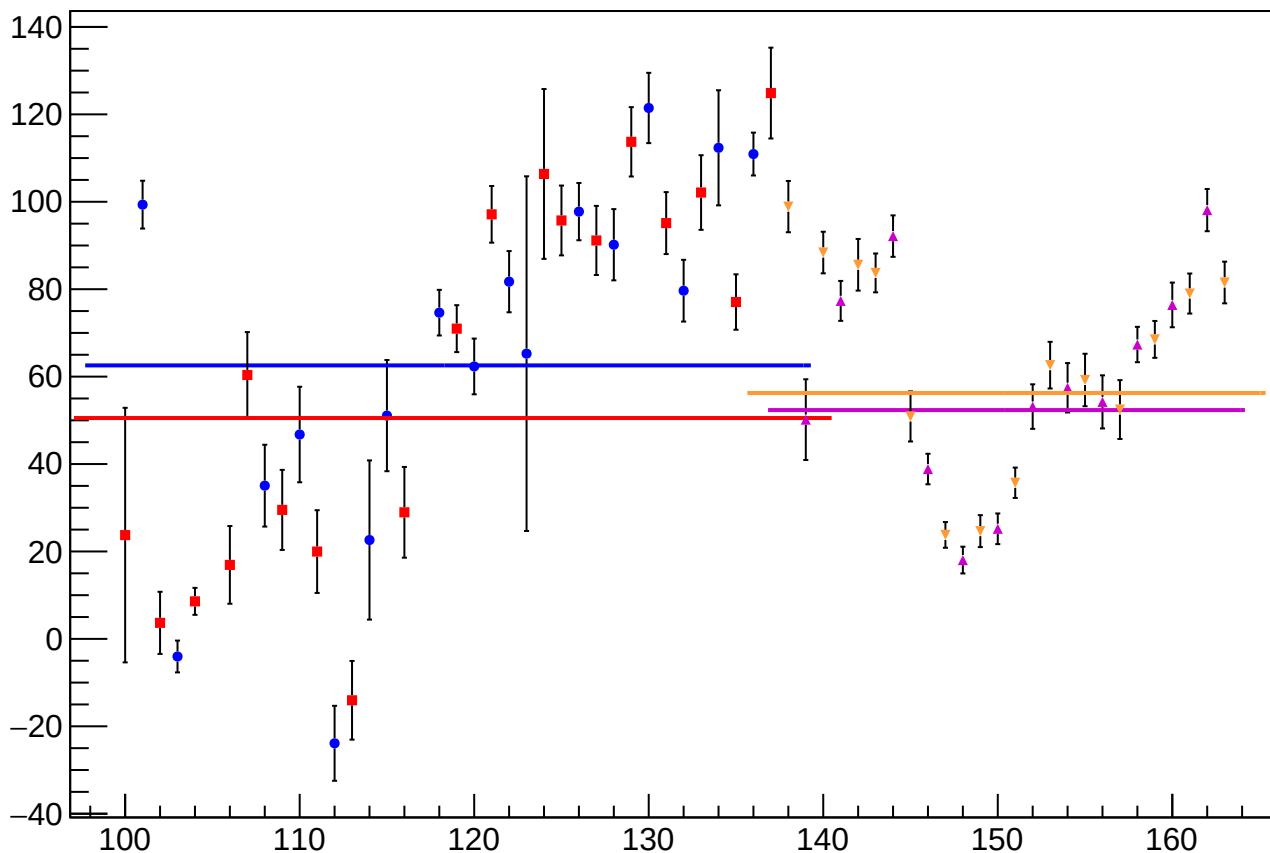
Left In: 317.144 $\pm$ 1.545  $\chi^2$ /NDF: 439.3/11

+ sign 297.354 $\pm$ 1.276  $\chi^2$ /NDF: 8420.4/30

All: 299.328 $\pm$ 0.913  $\chi^2$ /NDF: 17439.6/61

- sign 301.401 $\pm$ 1.308  $\chi^2$ /NDF: 9014.3/30

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 62.566+/-1.678  $\chi^2/\text{NDF}$ : 722.4/16

Left Out: 56.260+/-1.205  $\chi^2/\text{NDF}$ : 457.1/13

Right Out: 50.526+/-1.643  $\chi^2/\text{NDF}$ : 657.0/18

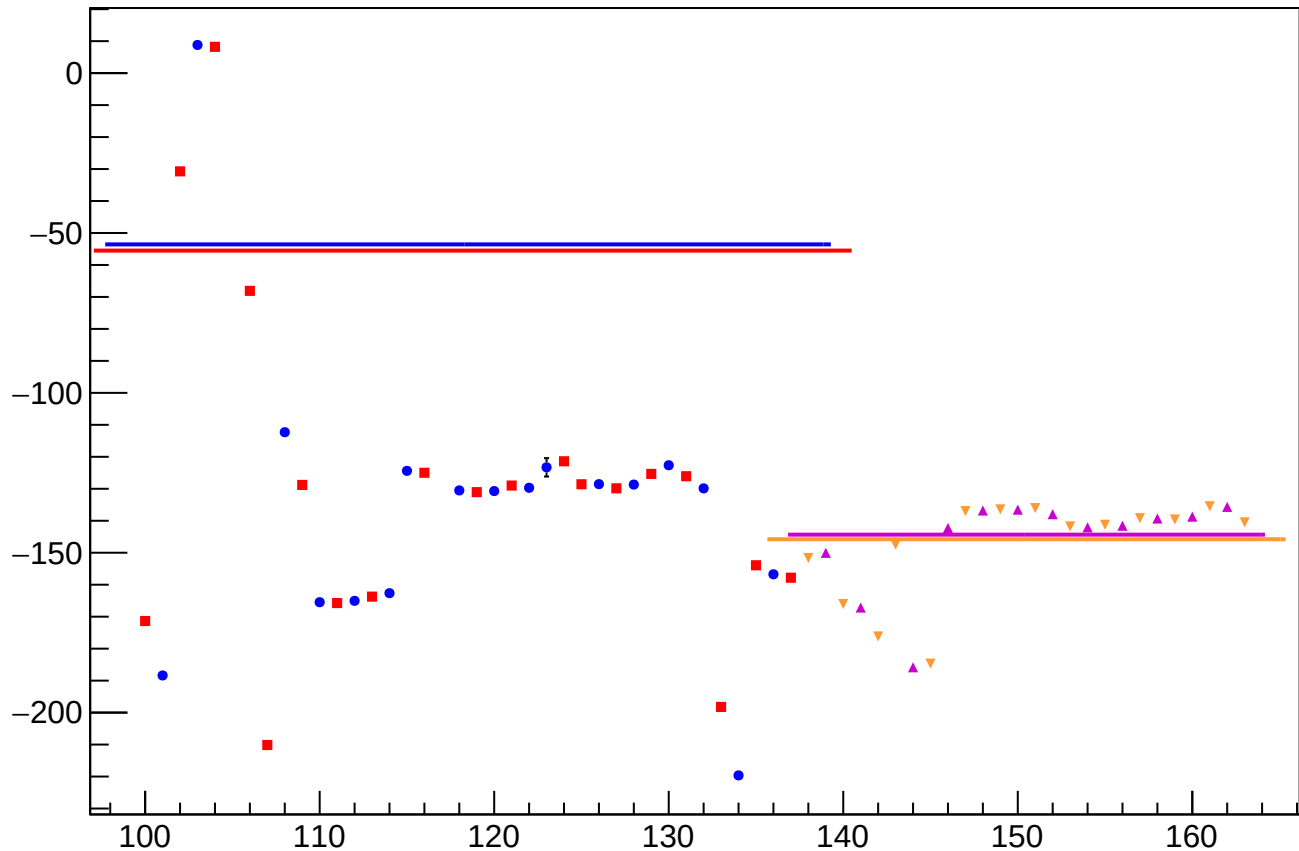
Left In: 52.348+/-1.276  $\chi^2/\text{NDF}$ : 427.8/11

+ sign 58.404+/-0.979  $\chi^2/\text{NDF}$ : 1188.9/30

All: 55.134+/-0.702  $\chi^2/\text{NDF}$ : 2297.4/61

- sign 51.663+/-1.008  $\chi^2/\text{NDF}$ : 1085.5/30

# reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-53.567 \pm 0.070$   $\chi^2/\text{NDF}$ : 1230233.3/16

Left Out:  $-145.784 \pm 0.060$   $\chi^2/\text{NDF}$ : 53634.4/13

Right Out:  $-55.502 \pm 0.072$   $\chi^2/\text{NDF}$ : 969632.0/18

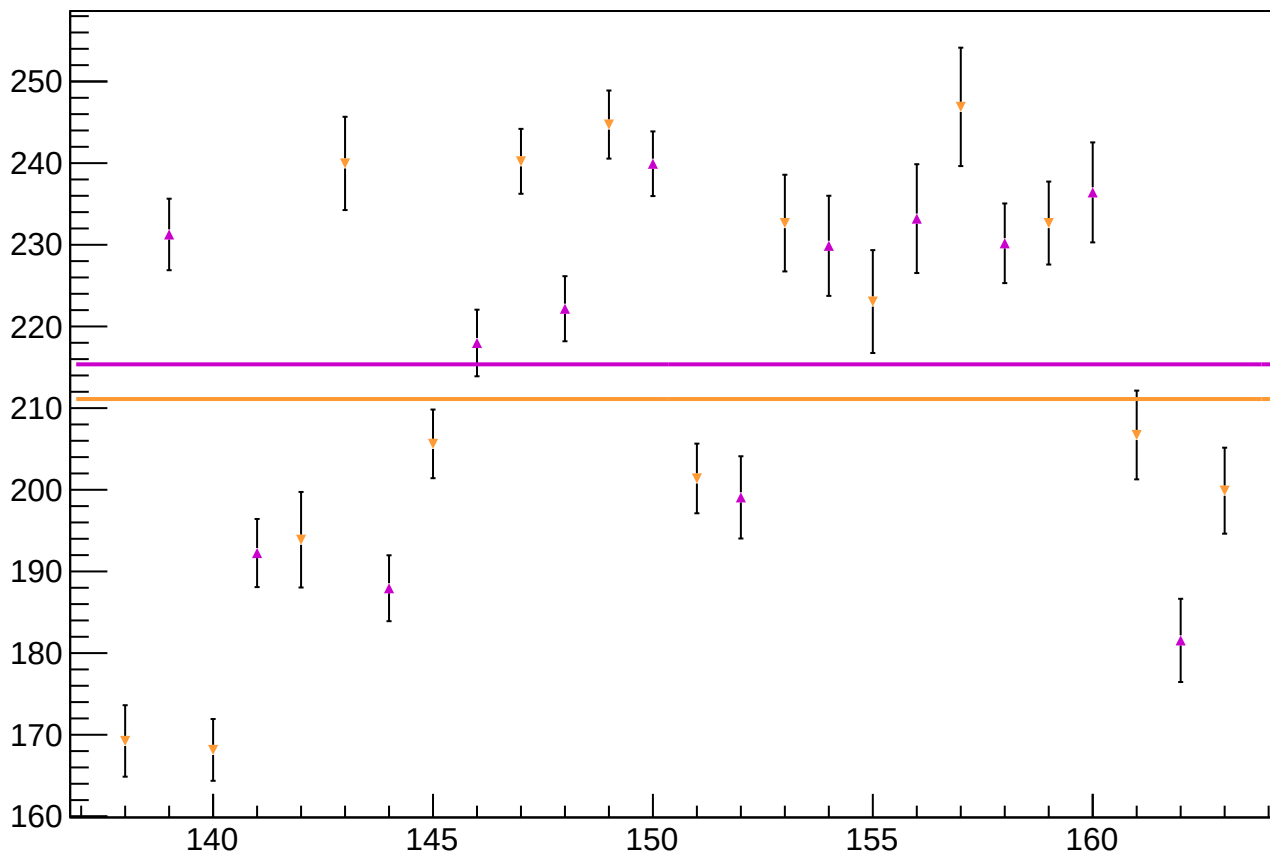
Left In:  $-144.344 \pm 0.061$   $\chi^2/\text{NDF}$ : 43295.3/11

+ sign  $-107.114 \pm 0.046$   $\chi^2/\text{NDF}$ : 2283787.0/30

All:  $-107.049 \pm 0.033$   $\chi^2/\text{NDF}$ : 4181250.5/61

- sign  $-106.981 \pm 0.047$   $\chi^2/\text{NDF}$ : 1897459.4/30

# reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 211.111+/-1.295  $\chi^2/\text{NDF}$ : 444.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

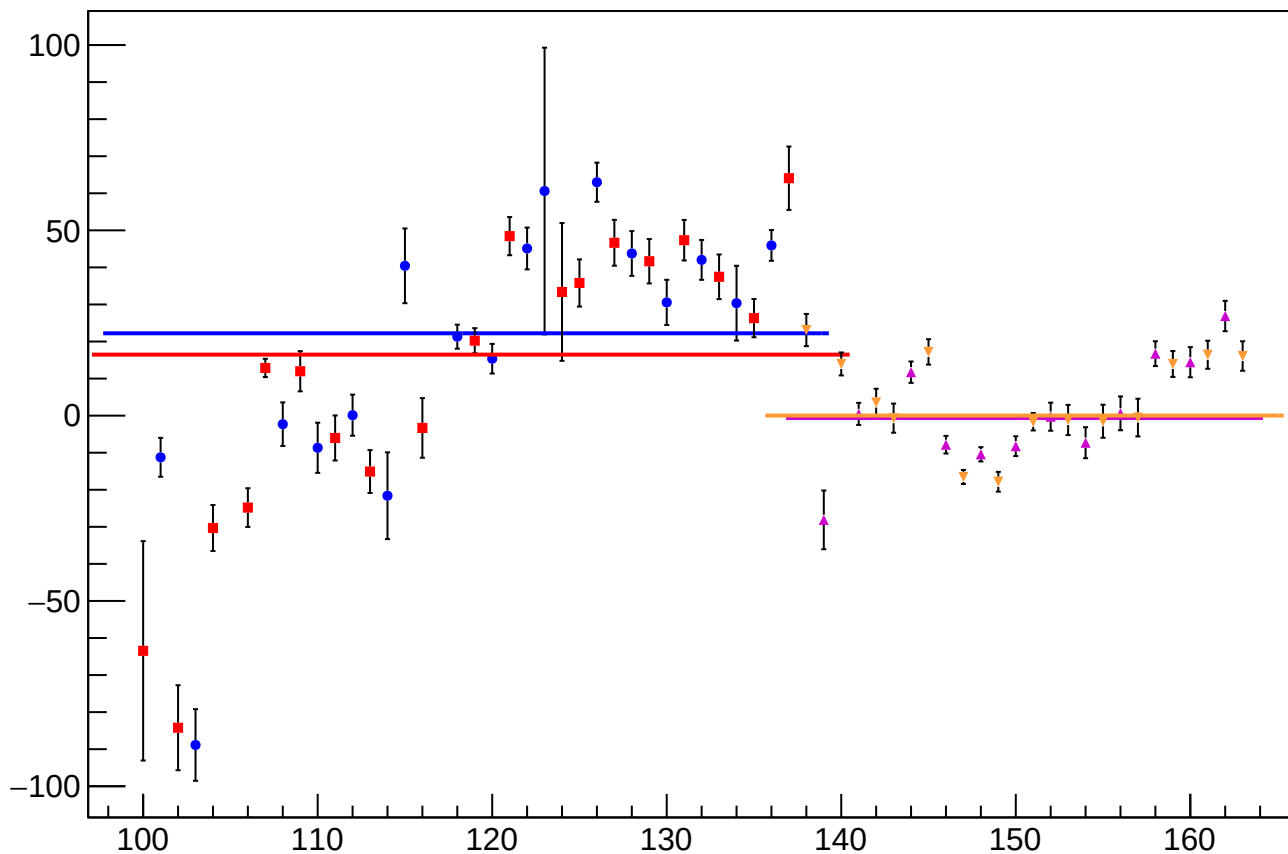
Left In: 215.361+/-1.344  $\chi^2/\text{NDF}$ : 220.2/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 213.158+/-0.933  $\chi^2/\text{NDF}$ : 670.1/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 22.221 $\pm$ 1.374  $\chi^2$ /NDF: 385.6/16

Left Out: 0.027 $\pm$ 0.862  $\chi^2$ /NDF: 248.1/13

Right Out: 16.466 $\pm$ 1.230  $\chi^2$ /NDF: 425.9/18

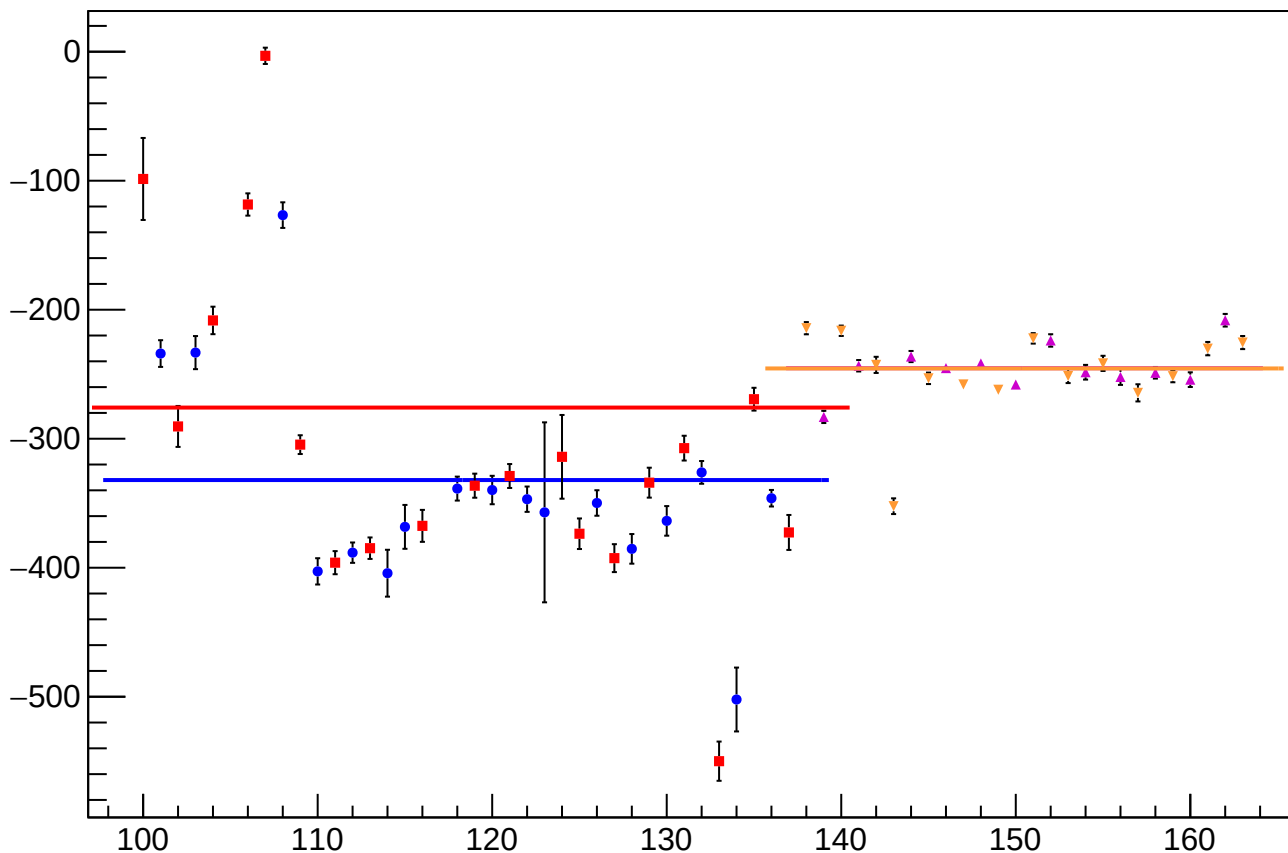
Left In: -0.628 $\pm$ 0.906  $\chi^2$ /NDF: 161.9/11

+ sign 6.294 $\pm$ 0.730  $\chi^2$ /NDF: 821.0/30

All: 5.840 $\pm$ 0.516  $\chi^2$ /NDF: 1534.9/61

- sign 5.386 $\pm$ 0.729  $\chi^2$ /NDF: 713.1/30

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-332.037 \pm 2.562$   $\chi^2/\text{NDF}$ : 784.9/16

Left Out:  $-245.528 \pm 1.277$   $\chi^2/\text{NDF}$ : 503.5/13

Right Out:  $-275.853 \pm 2.324$   $\chi^2/\text{NDF}$ : 3362.8/18

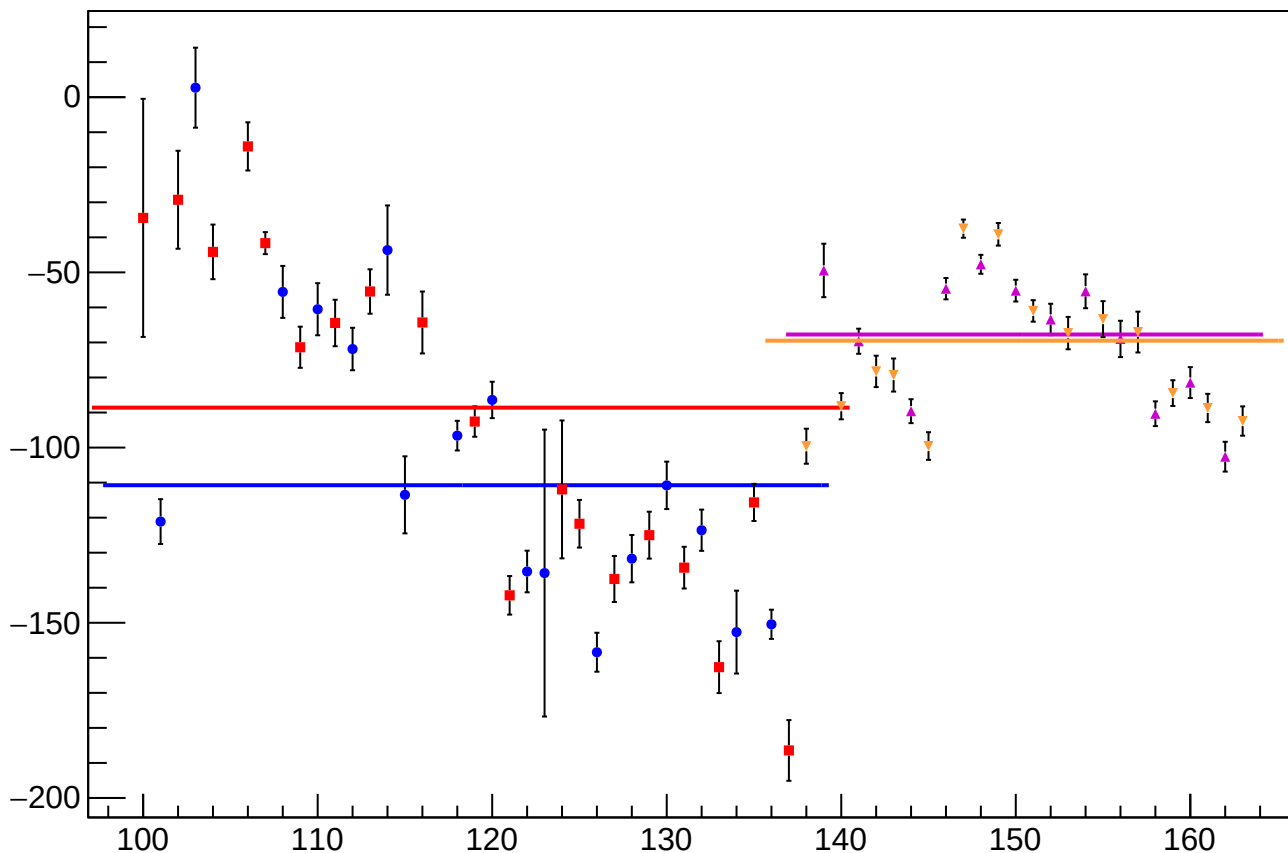
Left In:  $-245.350 \pm 1.312$   $\chi^2/\text{NDF}$ : 162.8/11

+ sign  $-262.736 \pm 1.143$   $\chi^2/\text{NDF}$ : 2201.8/30

All:  $-257.725 \pm 0.808$   $\chi^2/\text{NDF}$ : 5896.5/61

- sign  $-252.717 \pm 1.142$   $\chi^2/\text{NDF}$ : 3656.2/30

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-110.745 \pm 1.578$   $\chi^2/\text{NDF}$ : 513.4/16

Left Out:  $-69.483 \pm 1.038$   $\chi^2/\text{NDF}$ : 446.4/13

Right Out:  $-88.600 \pm 1.435$   $\chi^2/\text{NDF}$ : 969.7/18

Left In:  $-67.728 \pm 1.087$   $\chi^2/\text{NDF}$ : 262.2/11

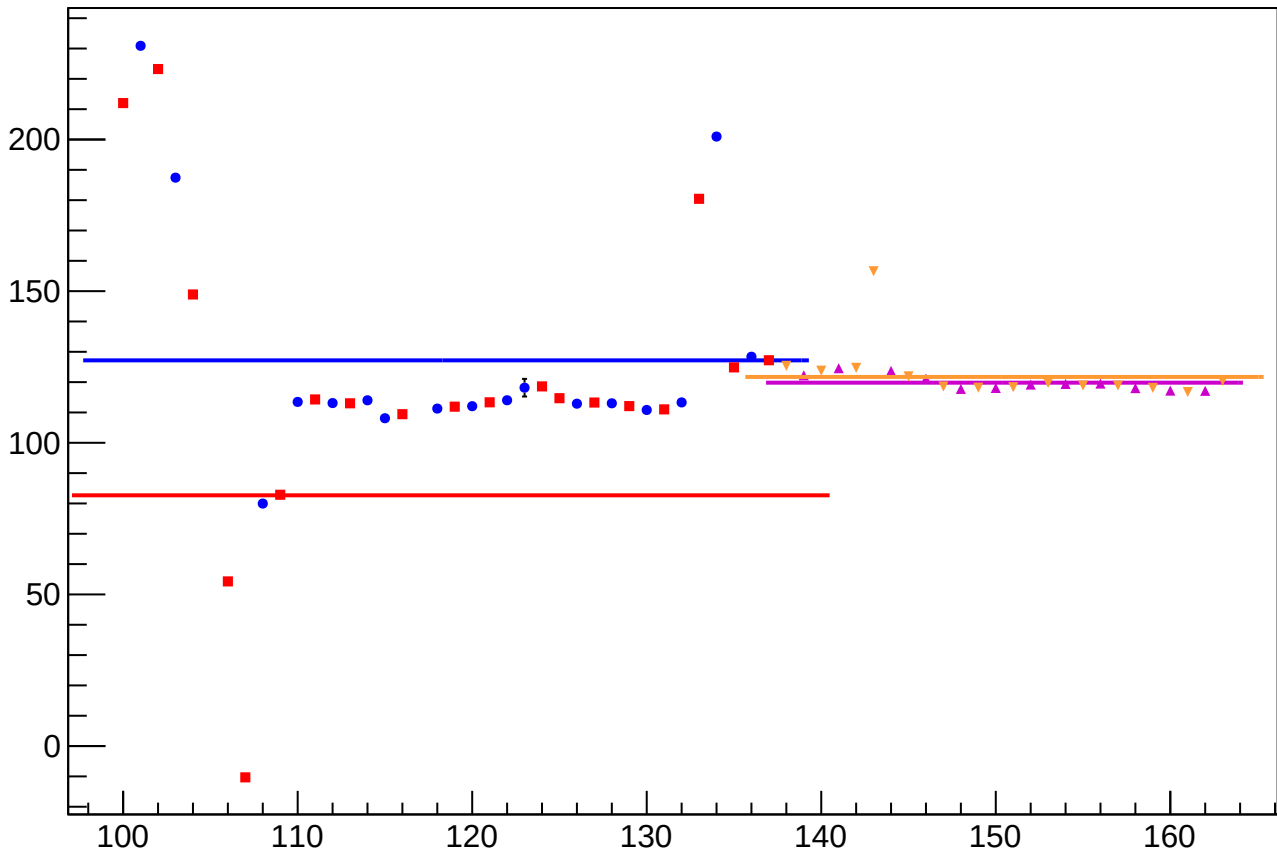
+ sign  $-81.949 \pm 0.867$   $\chi^2/\text{NDF}$ : 1437.2/30

All:  $-78.641 \pm 0.613$   $\chi^2/\text{NDF}$ : 2832.7/61

- sign  $-75.339 \pm 0.866$   $\chi^2/\text{NDF}$ : 1366.4/30



# reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 127.179 $\pm$ 0.089  $\chi^2$ /NDF: 188050.9/16

Left Out: 121.715 $\pm$ 0.051  $\chi^2$ /NDF: 23673.1/13

Right Out: 82.684 $\pm$ 0.075  $\chi^2$ /NDF: 765716.0/18

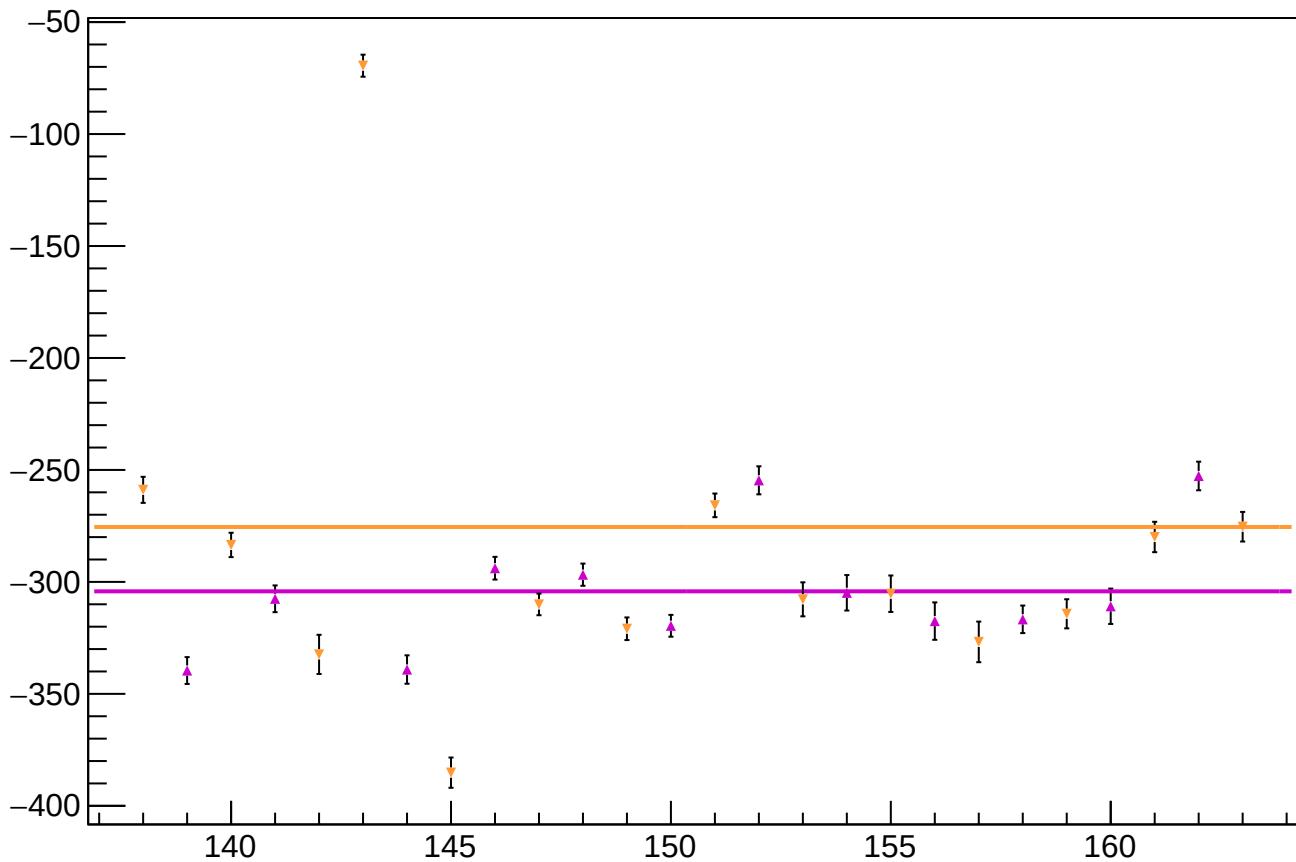
Left In: 119.820 $\pm$ 0.052  $\chi^2$ /NDF: 2170.2/11

+ sign 123.072 $\pm$ 0.044  $\chi^2$ /NDF: 214555.5/30

All: 115.172 $\pm$ 0.031  $\chi^2$ /NDF: 1208278.6/61

- sign 107.811 $\pm$ 0.043  $\chi^2$ /NDF: 932450.9/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $-275.466 \pm 1.643$   $\chi^2/\text{NDF}$ : 2301.7/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

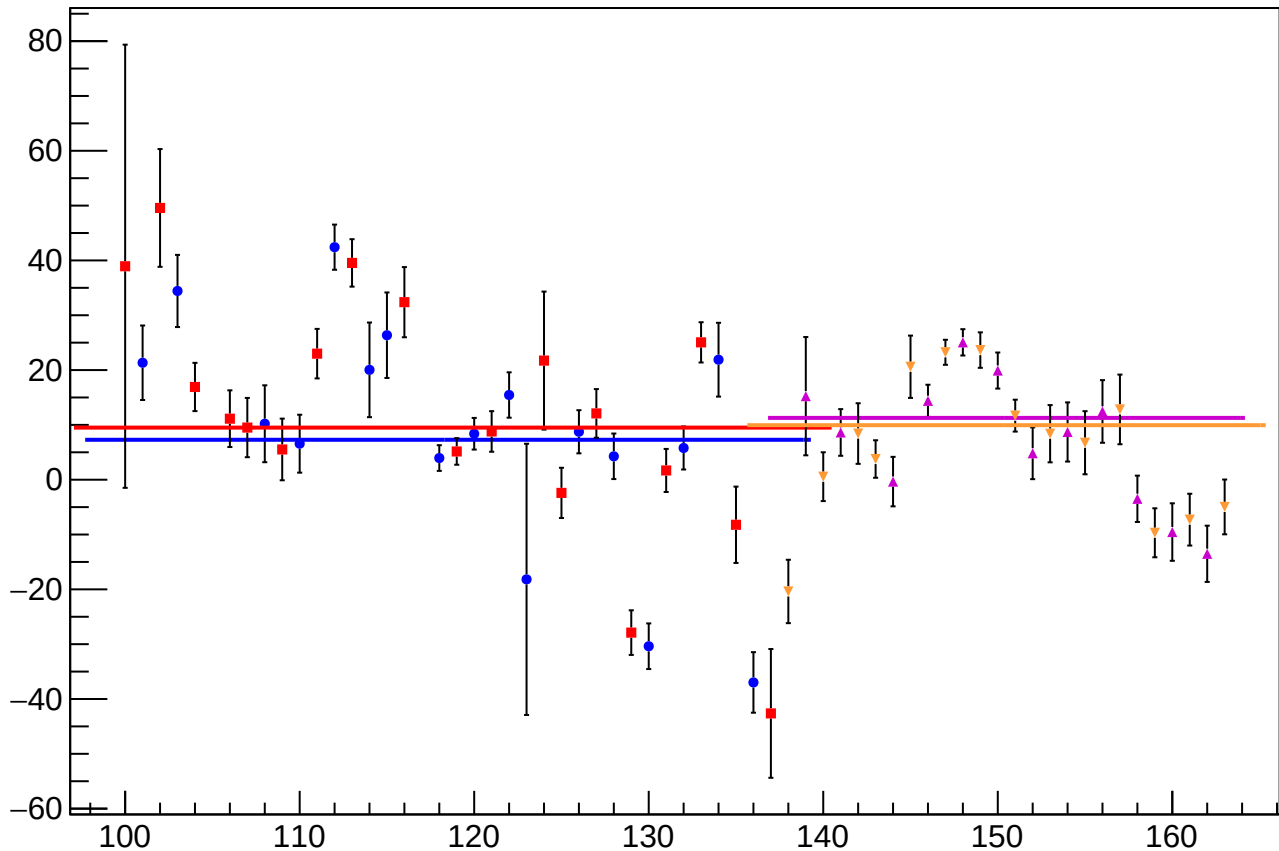
Left In:  $-304.215 \pm 1.753$   $\chi^2/\text{NDF}$ : 216.9/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-288.904 \pm 1.199$   $\chi^2/\text{NDF}$ : 2661.7/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $7.284 \pm 1.084$   $\chi^2/\text{NDF}$ : 261.0/16

Left Out:  $9.947 \pm 1.077$   $\chi^2/\text{NDF}$ : 133.1/13

Right Out:  $9.505 \pm 1.074$   $\chi^2/\text{NDF}$ : 231.5/18

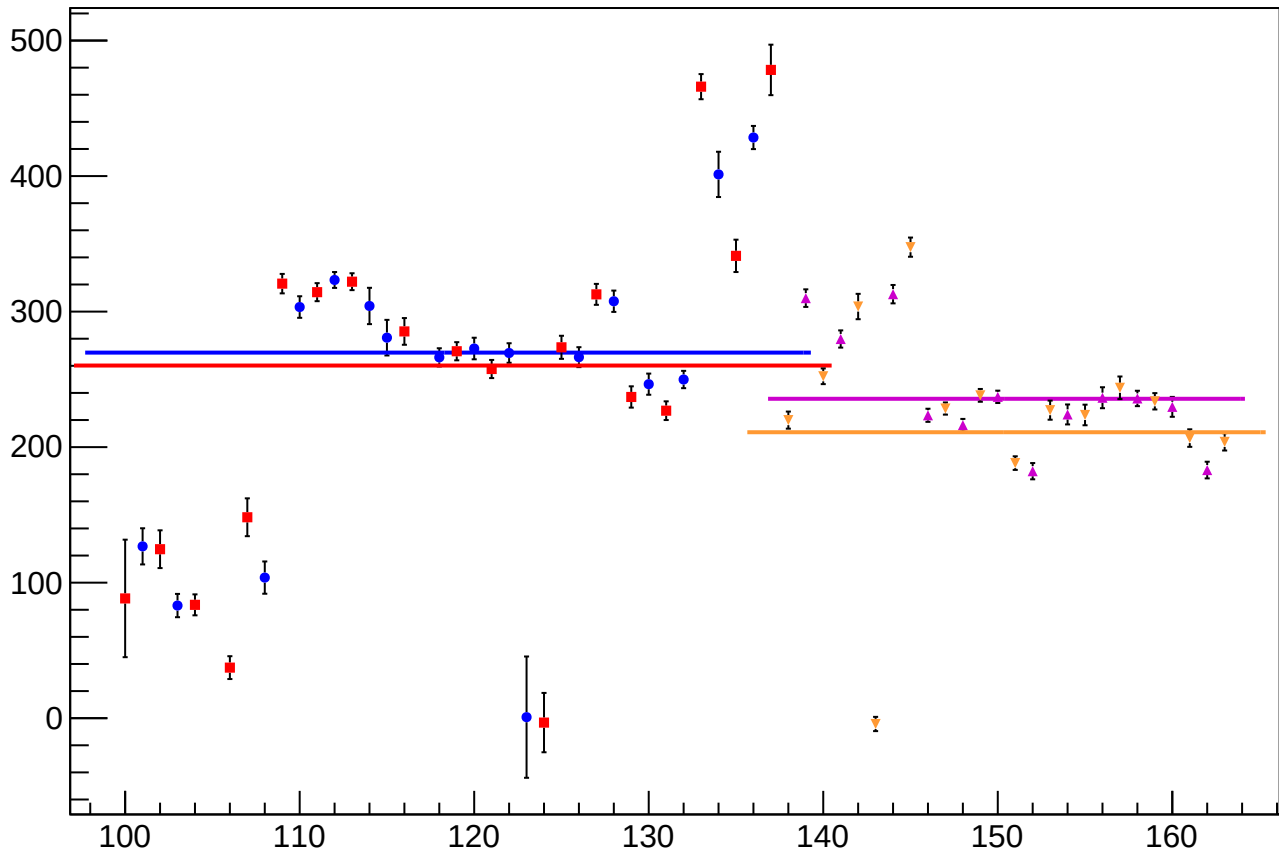
Left In:  $11.277 \pm 1.166$   $\chi^2/\text{NDF}$ : 101.6/11

+ sign  $8.623 \pm 0.764$   $\chi^2/\text{NDF}$ : 397.2/30

All:  $9.442 \pm 0.549$   $\chi^2/\text{NDF}$ : 733.9/61

- sign  $10.318 \pm 0.790$   $\chi^2/\text{NDF}$ : 334.4/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $269.748 \pm 2.071$   $\chi^2/\text{NDF}: 1374.1/16$

Left Out:  $210.993 \pm 1.613$   $\chi^2/\text{NDF}: 2309.0/13$

Right Out:  $260.206 \pm 1.978$   $\chi^2/\text{NDF}: 2541.6/18$

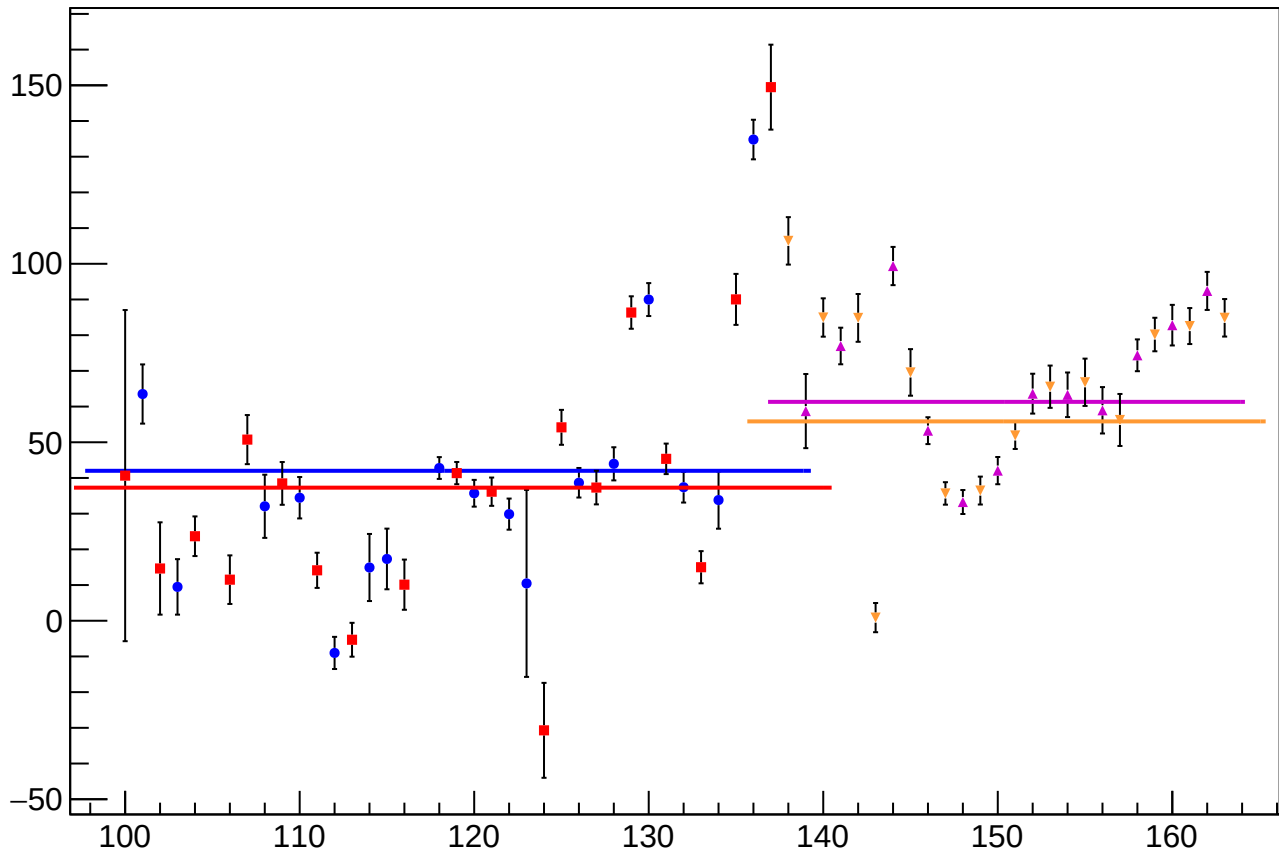
Left In:  $235.674 \pm 1.699$   $\chi^2/\text{NDF}: 488.3/11$

+ sign  $233.179 \pm 1.273$   $\chi^2/\text{NDF}: 4183.9/30$

All:  $239.555 \pm 0.906$   $\chi^2/\text{NDF}: 7353.0/61$

- sign  $246.091 \pm 1.289$   $\chi^2/\text{NDF}: 3118.4/30$

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 42.006+/-1.255  $\chi^2/\text{NDF}$ : 575.6/16

Left Out: 55.846+/-1.302  $\chi^2/\text{NDF}$ : 448.6/13

Right Out: 37.284+/-1.237  $\chi^2/\text{NDF}$ : 472.6/18

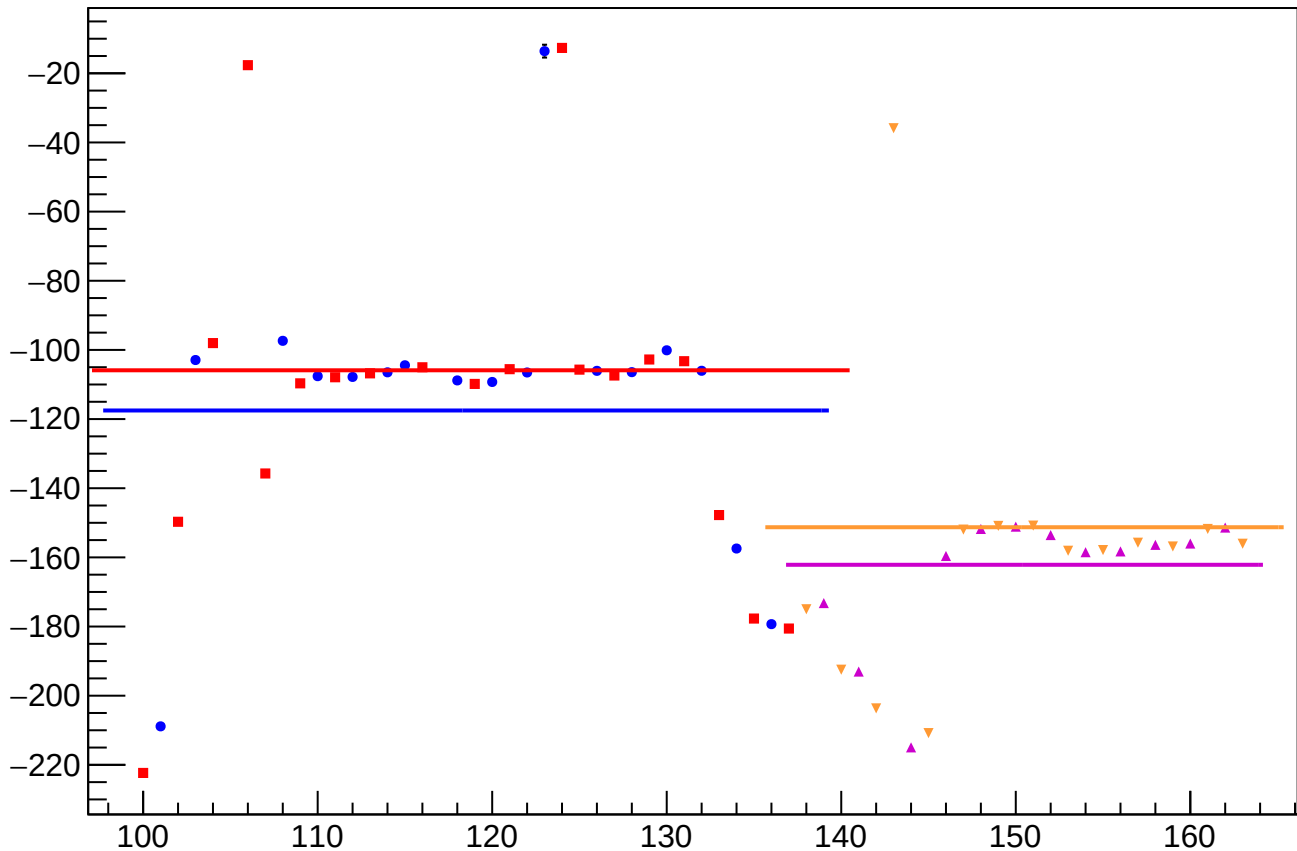
Left In: 61.319+/-1.403  $\chi^2/\text{NDF}$ : 217.0/11

+ sign 48.674+/-0.904  $\chi^2/\text{NDF}$ : 1082.7/30

All: 48.247+/-0.647  $\chi^2/\text{NDF}$ : 1937.9/61

- sign 47.798+/-0.928  $\chi^2/\text{NDF}$ : 854.7/30

# reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug



Right In:  $-117.516 \pm 0.078$   $\chi^2/\text{NDF}$ : 142016.6/16

Left Out:  $-151.282 \pm 0.065$   $\chi^2/\text{NDF}$ : 403619.3/13

Right Out:  $-105.892 \pm 0.073$   $\chi^2/\text{NDF}$ : 324304.4/18

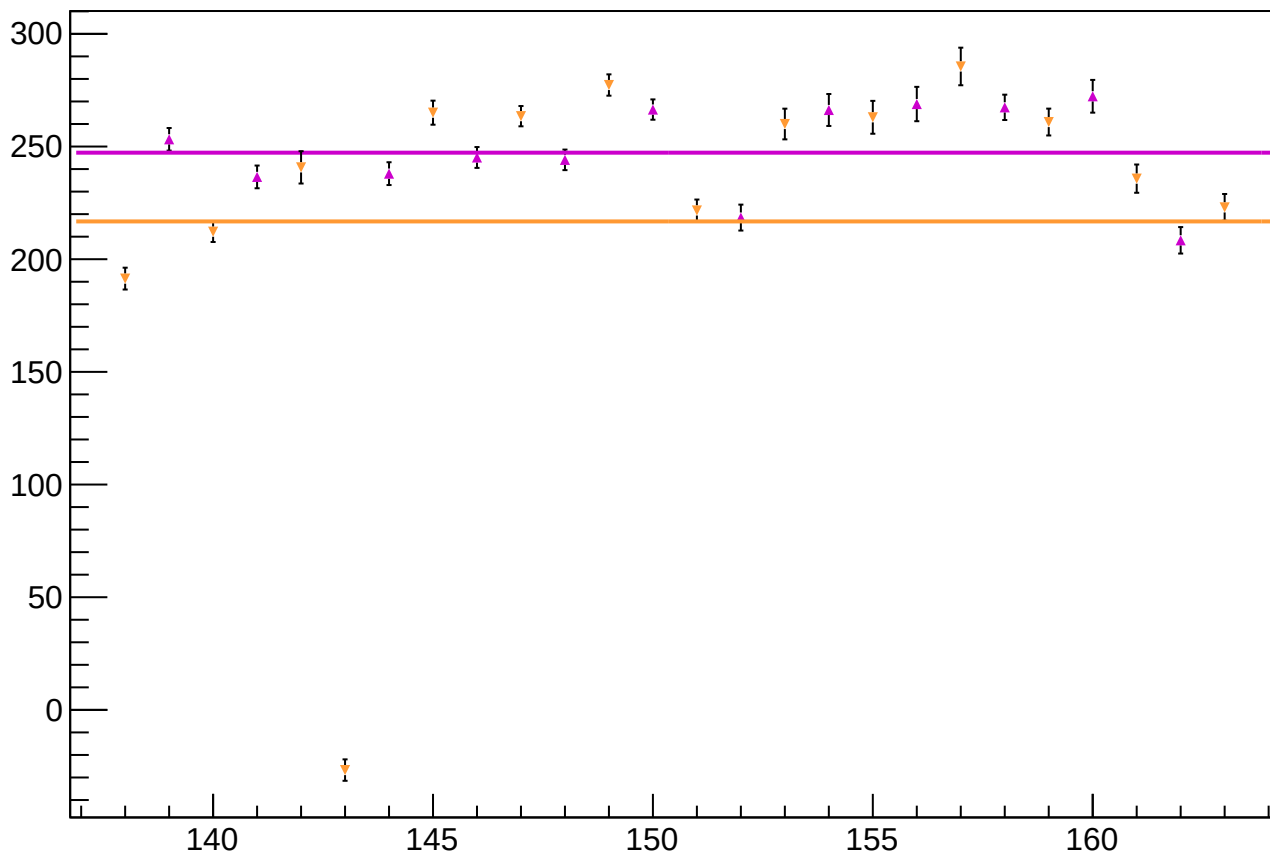
Left In:  $-162.143 \pm 0.067$   $\chi^2/\text{NDF}$ : 59452.7/11

+ sign  $-137.498 \pm 0.050$   $\chi^2/\text{NDF}$ : 656529.3/30

All:  $-136.829 \pm 0.035$   $\chi^2/\text{NDF}$ : 1362013.5/61

- sign  $-136.171 \pm 0.049$   $\chi^2/\text{NDF}$ : 705127.1/30

# reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Left Out:  $216.768 \pm 1.470$   $\chi^2/\text{NDF}$ : 3229.8/13

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

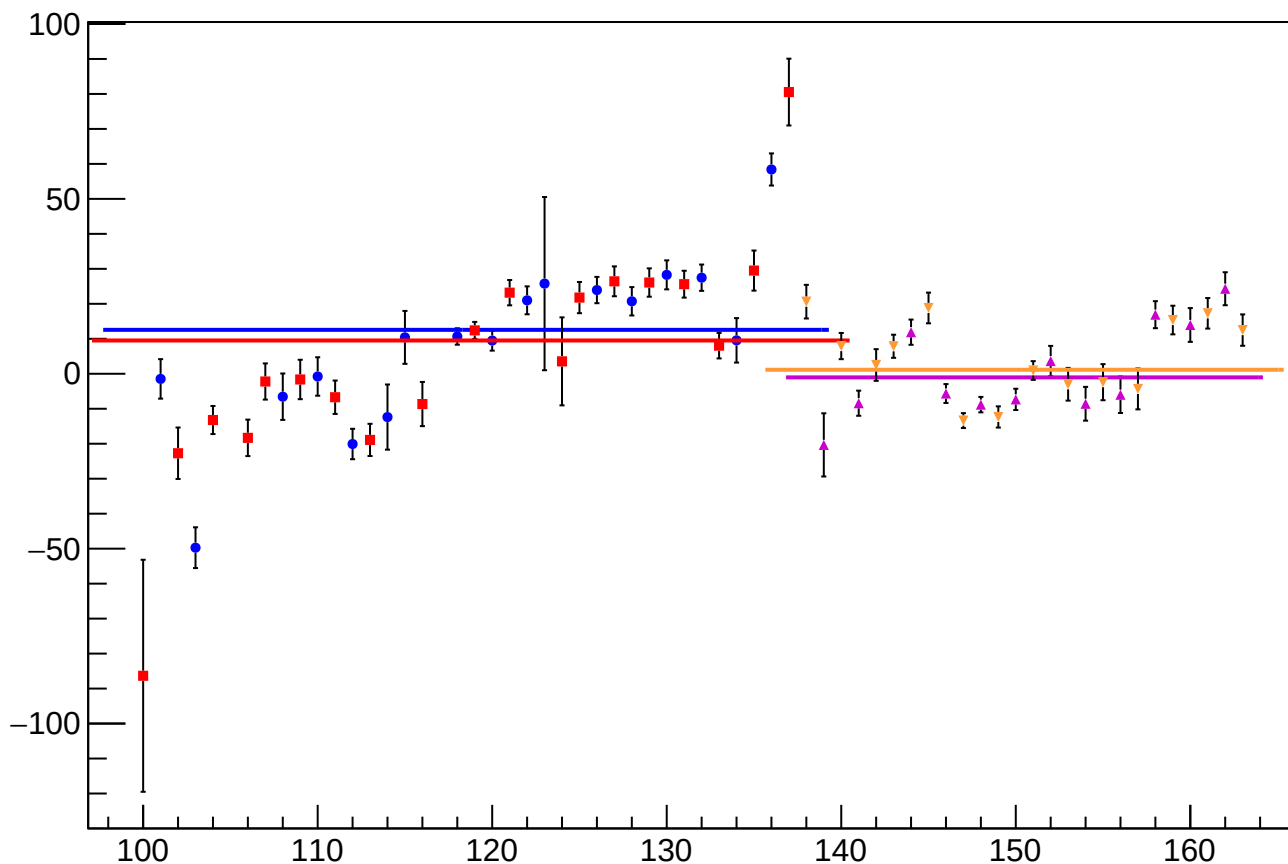
Left In:  $247.275 \pm 1.563$   $\chi^2/\text{NDF}$ : 136.8/11

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $231.091 \pm 1.071$   $\chi^2/\text{NDF}$ : 3568.8/25

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug



Right In: 12.561+/-1.056  $\chi^2/\text{NDF}$ : 347.7/16

Left Out: 1.149+/-0.976  $\chi^2/\text{NDF}$ : 140.6/13

Right Out: 9.519+/-1.051  $\chi^2/\text{NDF}$ : 296.2/18

Left In: -1.034+/-1.051  $\chi^2/\text{NDF}$ : 105.8/11

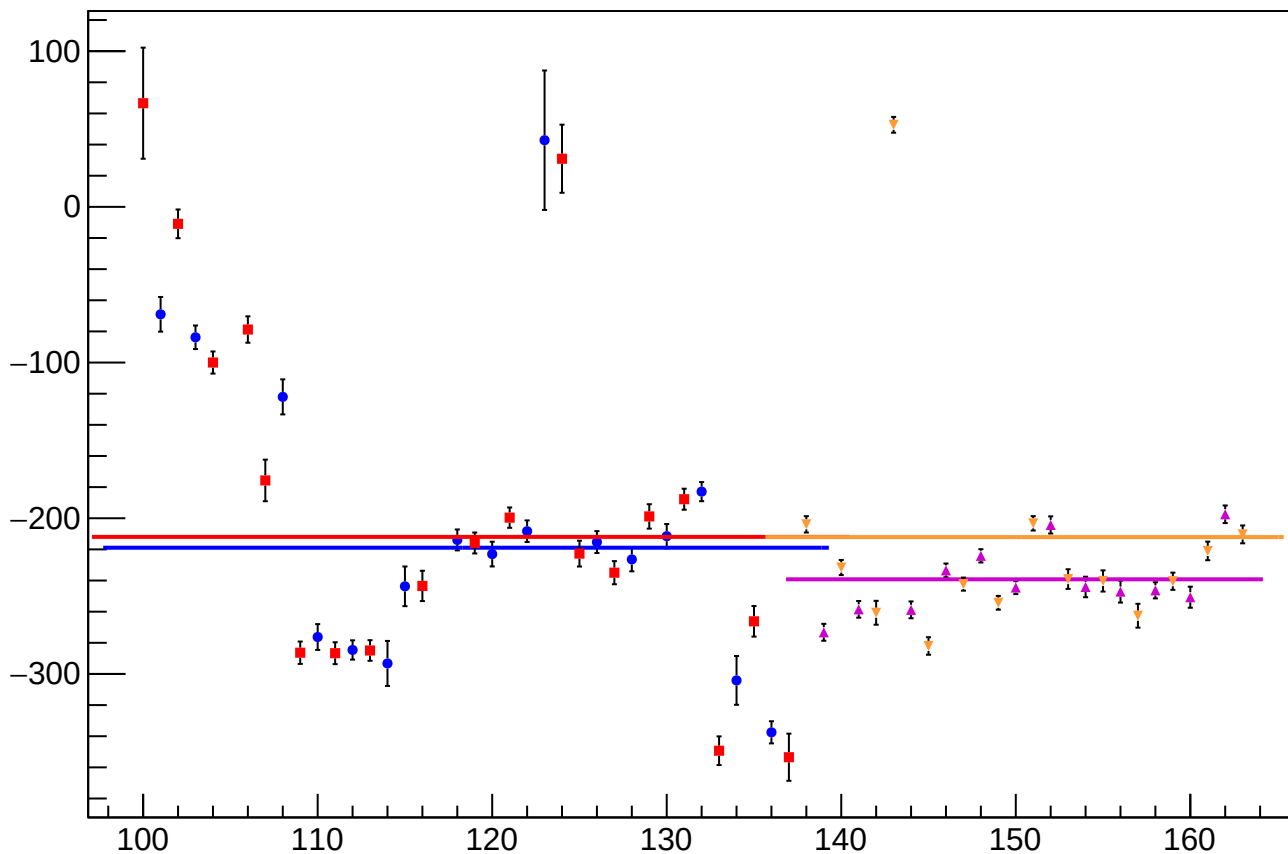
+ sign 6.410+/-0.717  $\chi^2/\text{NDF}$ : 551.3/30

All: 5.367+/-0.516  $\chi^2/\text{NDF}$ : 1008.1/61

- sign 4.247+/-0.743  $\chi^2/\text{NDF}$ : 452.5/30



# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug



Right In:  $-218.925 \pm 2.006$   $\chi^2/\text{NDF}$ : 1146.6/16

Left Out:  $-212.090 \pm 1.451$   $\chi^2/\text{NDF}$ : 3188.4/13

Right Out:  $-211.968 \pm 1.924$   $\chi^2/\text{NDF}$ : 1886.2/18

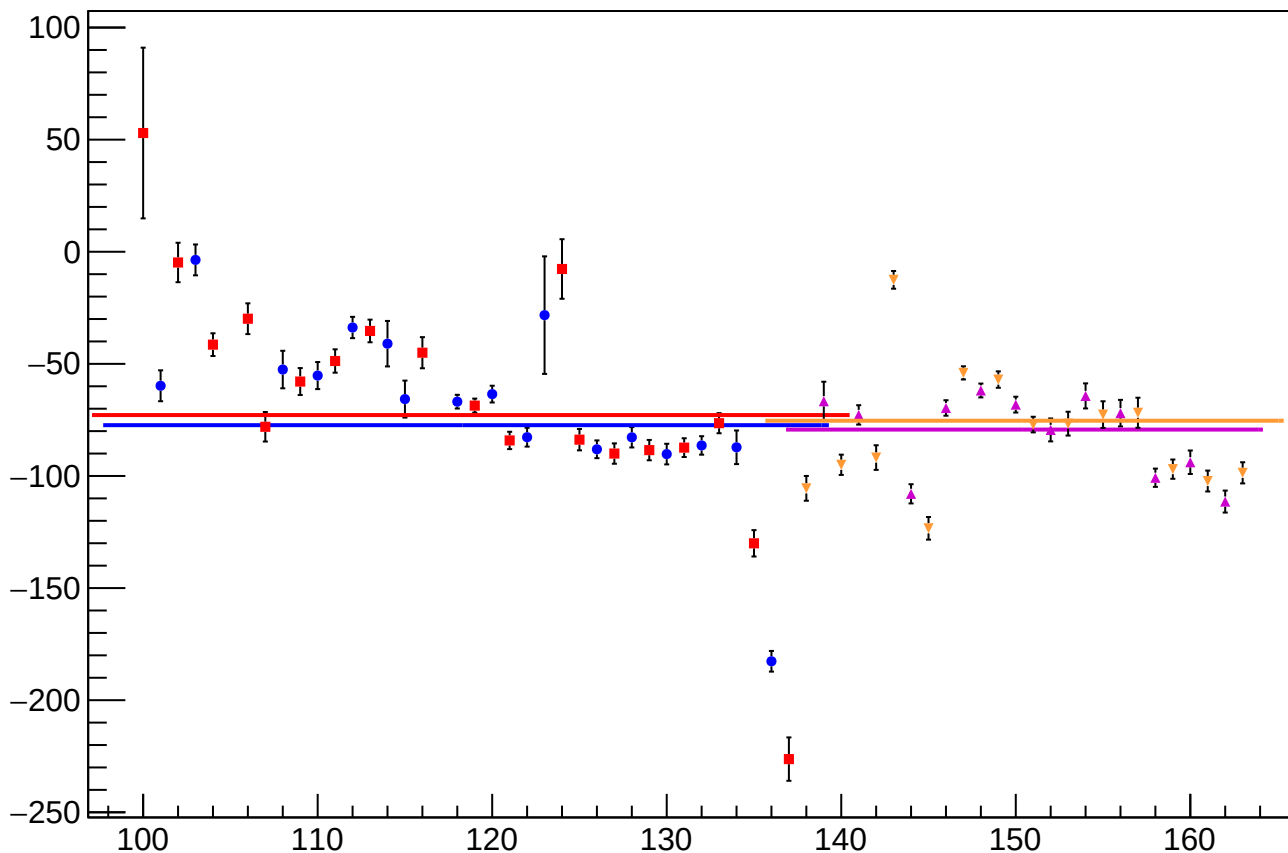
Left In:  $-239.218 \pm 1.522$   $\chi^2/\text{NDF}$ : 182.5/11

+ sign  $-214.437 \pm 1.176$   $\chi^2/\text{NDF}$ : 4342.7/30

All:  $-221.473 \pm 0.838$   $\chi^2/\text{NDF}$ : 6607.5/61

- sign  $-228.730 \pm 1.194$   $\chi^2/\text{NDF}$ : 2192.0/30

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-77.342 \pm 1.219$   $\chi^2/\text{NDF}$ : 817.2/16

Left Out:  $-75.357 \pm 1.177$   $\chi^2/\text{NDF}$ : 562.1/13

Right Out:  $-72.836 \pm 1.209$   $\chi^2/\text{NDF}$ : 672.9/18

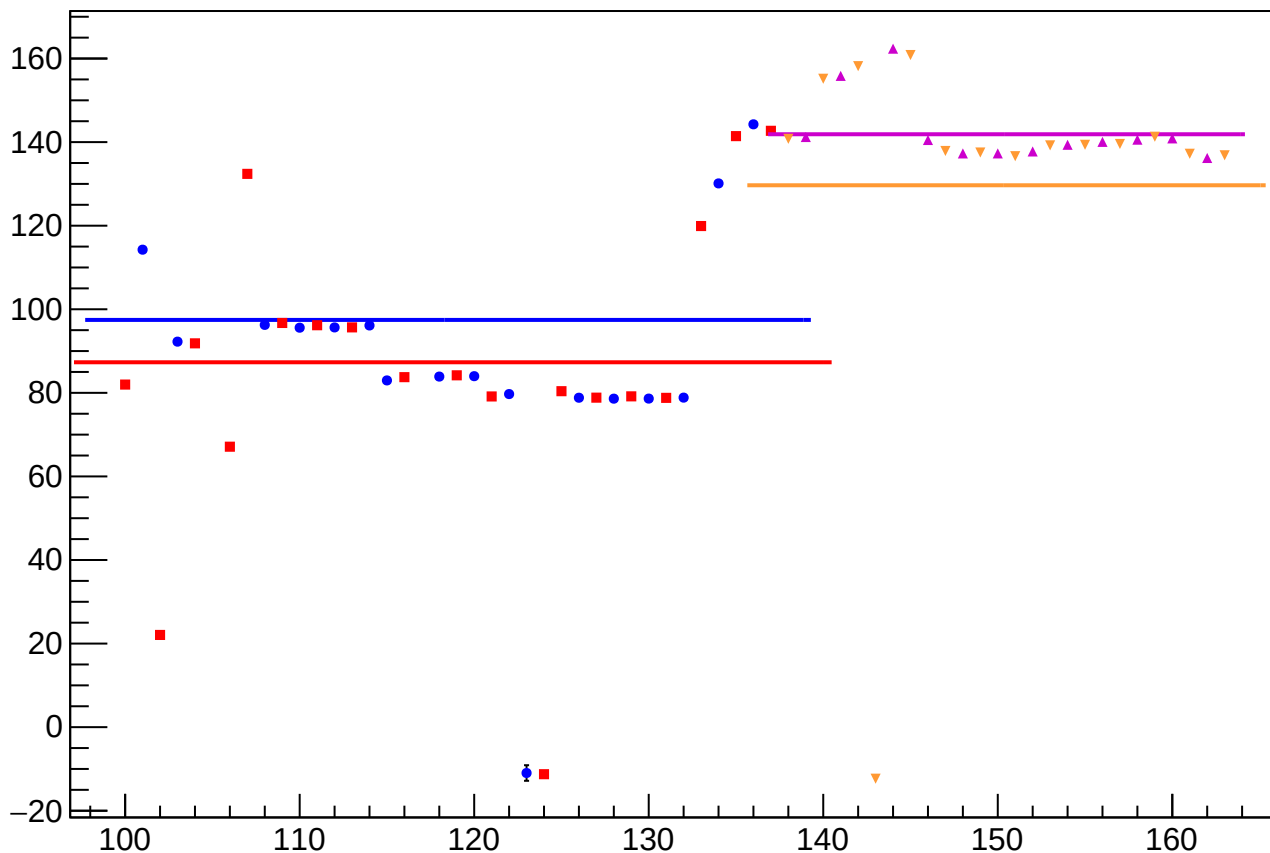
Left In:  $-79.311 \pm 1.263$   $\chi^2/\text{NDF}$ : 186.1/11

+ sign  $-76.315 \pm 0.847$   $\chi^2/\text{NDF}$ : 1380.7/30

All:  $-76.129 \pm 0.608$   $\chi^2/\text{NDF}$ : 2253.5/61

- sign  $-75.932 \pm 0.873$   $\chi^2/\text{NDF}$ : 872.7/30

# reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 97.452 $\pm$ 0.073  $\chi^2$ /NDF: 94476.4/16

Left Out: 129.672 $\pm$ 0.058  $\chi^2$ /NDF: 549514.9/13

Right Out: 87.315 $\pm$ 0.068  $\chi^2$ /NDF: 221837.7/18

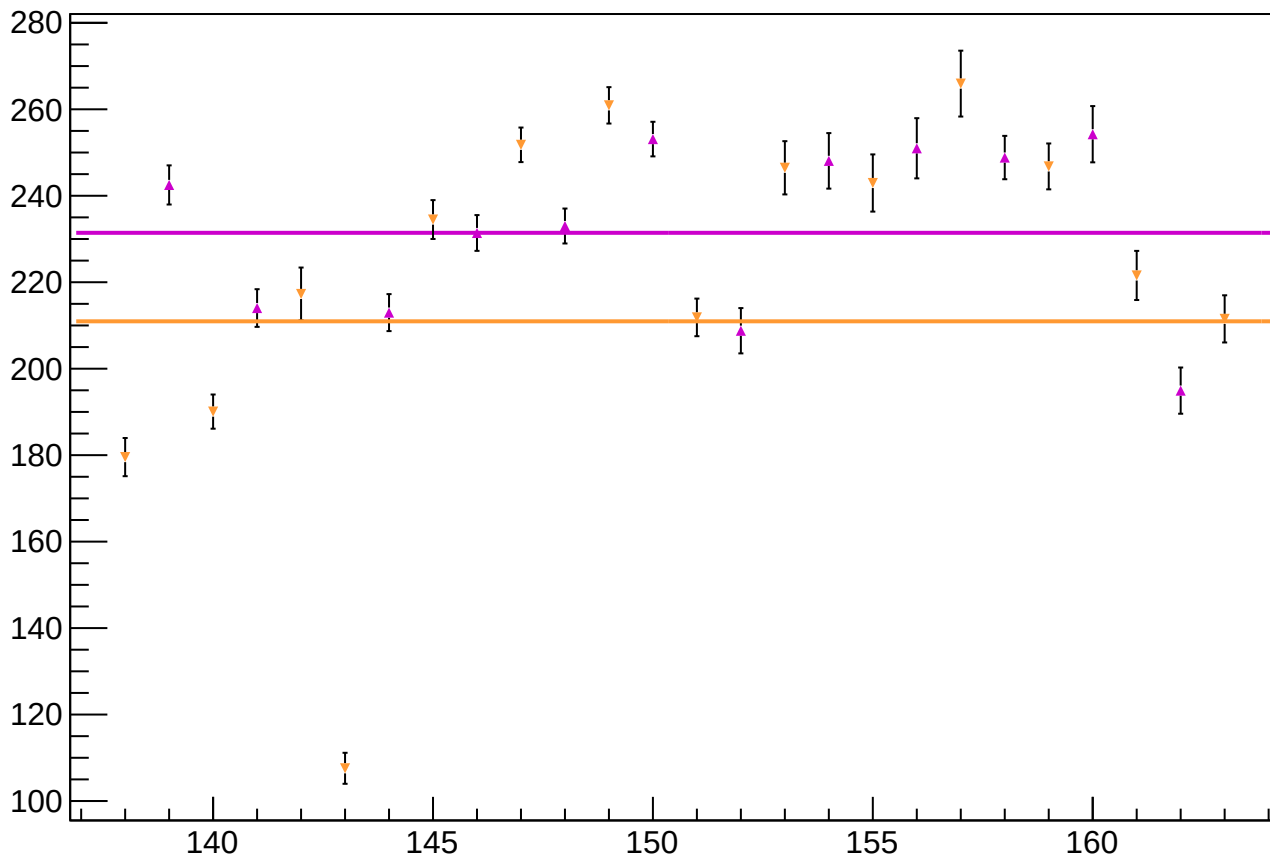
Left In: 141.882 $\pm$ 0.060  $\chi^2$ /NDF: 14232.4/11

+ sign 117.211 $\pm$ 0.046  $\chi^2$ /NDF: 762598.7/30

All: 117.570 $\pm$ 0.032  $\chi^2$ /NDF: 1357456.2/61

- sign 117.924 $\pm$ 0.045  $\chi^2$ /NDF: 594734.3/30

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 210.959+/-1.283  $\chi^2/\text{NDF}$ :1341.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

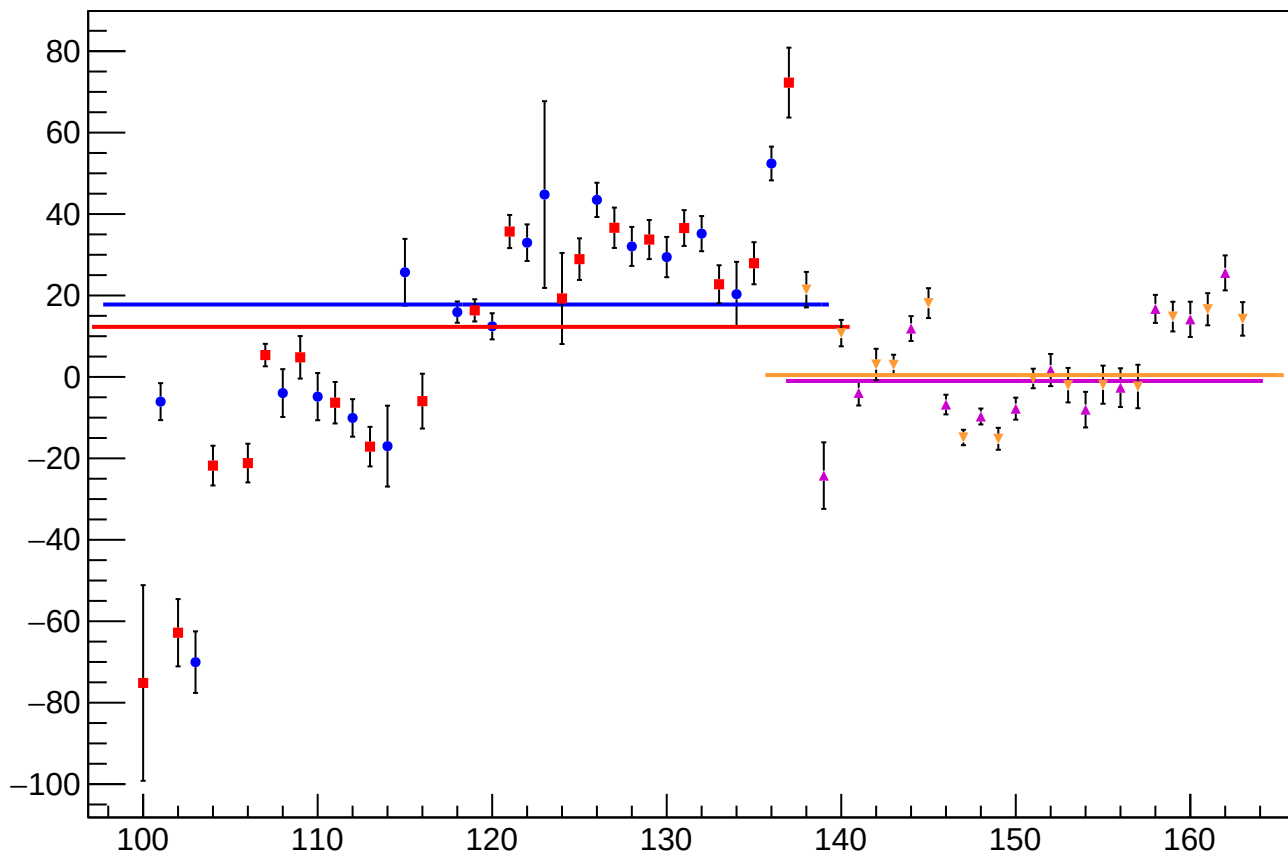
Left In: 231.430+/-1.389  $\chi^2/\text{NDF}$ :174.3/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 220.379+/-0.943  $\chi^2/\text{NDF}$ : 1633.2/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug



Right In: 17.786 $\pm$ 1.146  $\chi^2$ /NDF: 395.1/16

Left Out: 0.452 $\pm$ 0.852  $\chi^2$ /NDF: 201.8/13

Right Out: 12.294 $\pm$ 1.086  $\chi^2$ /NDF: 443.7/18

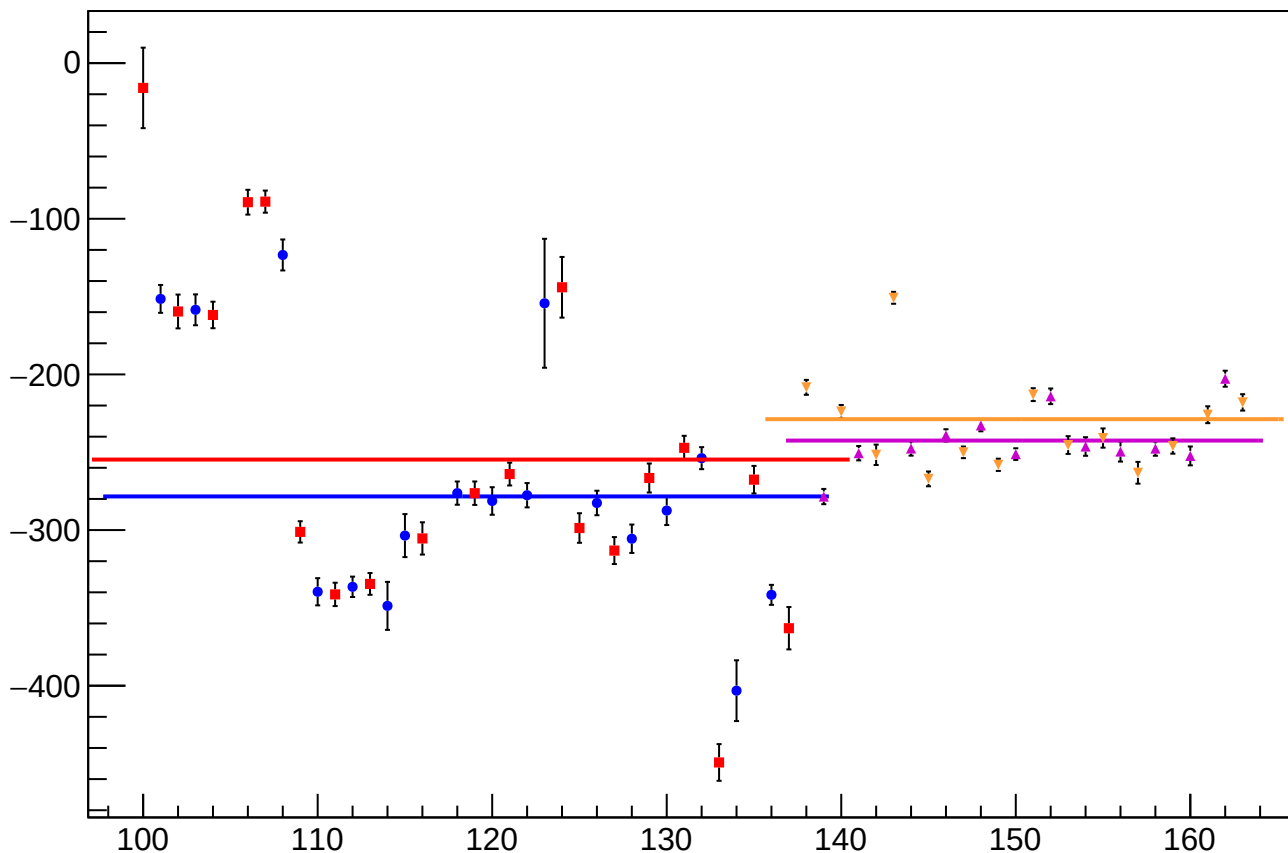
Left In: -0.992 $\pm$ 0.933  $\chi^2$ /NDF: 138.8/11

+ sign 6.619 $\pm$ 0.684  $\chi^2$ /NDF: 744.2/30

All: 5.668 $\pm$ 0.492  $\chi^2$ /NDF: 1416.9/61

- sign 4.650 $\pm$ 0.708  $\chi^2$ /NDF: 668.7/30

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug



Right In: -278.393+/-2.168  $\chi^2$ /NDF: 910.5/16

Left Out: -228.742+/-1.271  $\chi^2$ /NDF: 667.9/13

Right Out: -254.703+/-2.020  $\chi^2$ /NDF: 2038.5/18

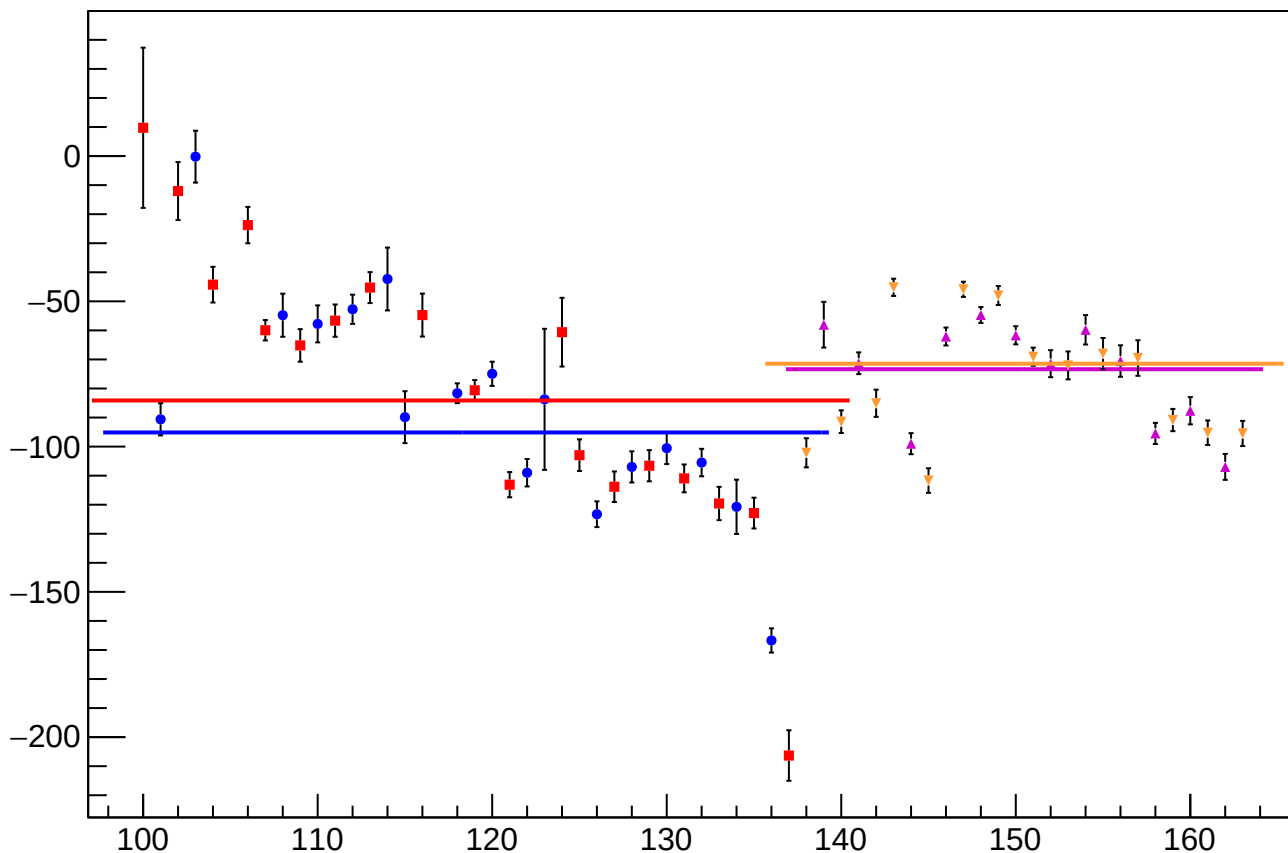
Left In: -242.502+/-1.355  $\chi^2$ /NDF: 168.2/11

+ sign -241.443+/-1.096  $\chi^2$ /NDF: 1968.9/30

All: -243.803+/-0.785  $\chi^2$ /NDF: 4210.3/61

- sign -246.288+/-1.125  $\chi^2$ /NDF: 2231.9/30

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug



Right In:  $-95.135 \pm 1.322$   $\chi^2/\text{NDF}$ : 674.9/16

Left Out:  $-71.465 \pm 1.028$   $\chi^2/\text{NDF}$ : 478.3/13

Right Out:  $-84.124 \pm 1.259$   $\chi^2/\text{NDF}$ : 782.9/18

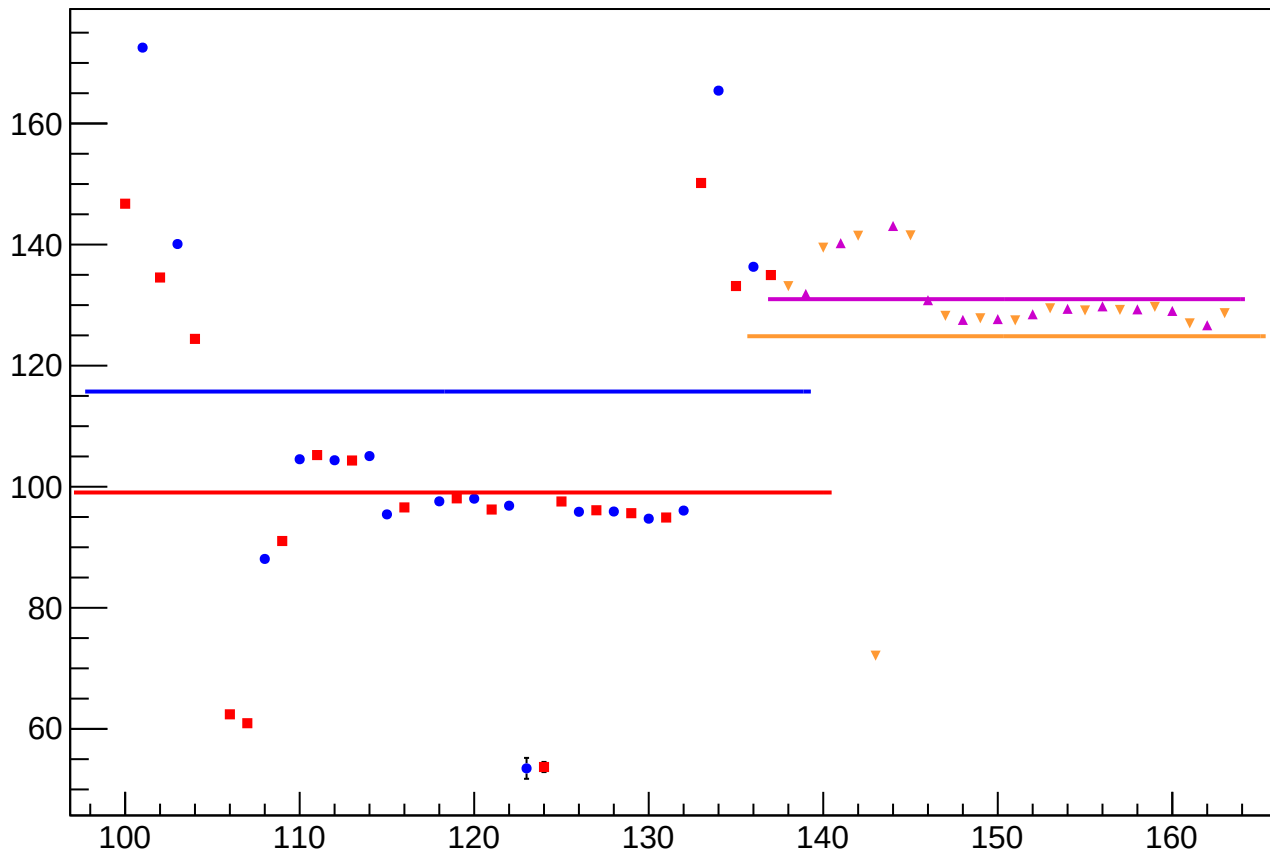
Left In:  $-73.368 \pm 1.122$   $\chi^2/\text{NDF}$ : 238.6/11

+ sign  $-80.380 \pm 0.812$   $\chi^2/\text{NDF}$ : 1352.9/30

All:  $-79.289 \pm 0.583$   $\chi^2/\text{NDF}$ : 2418.9/61

- sign  $-78.128 \pm 0.837$   $\chi^2/\text{NDF}$ : 1062.2/30

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug



Right In: 115.724 $\pm$ 0.078  $\chi^2$ /NDF: 106388.1/16

Left Out: 124.859 $\pm$ 0.051  $\chi^2$ /NDF: 141741.2/13

Right Out: 99.049 $\pm$ 0.069  $\chi^2$ /NDF: 173463.3/18

Left In: 130.981 $\pm$ 0.054  $\chi^2$ /NDF: 7865.2/11

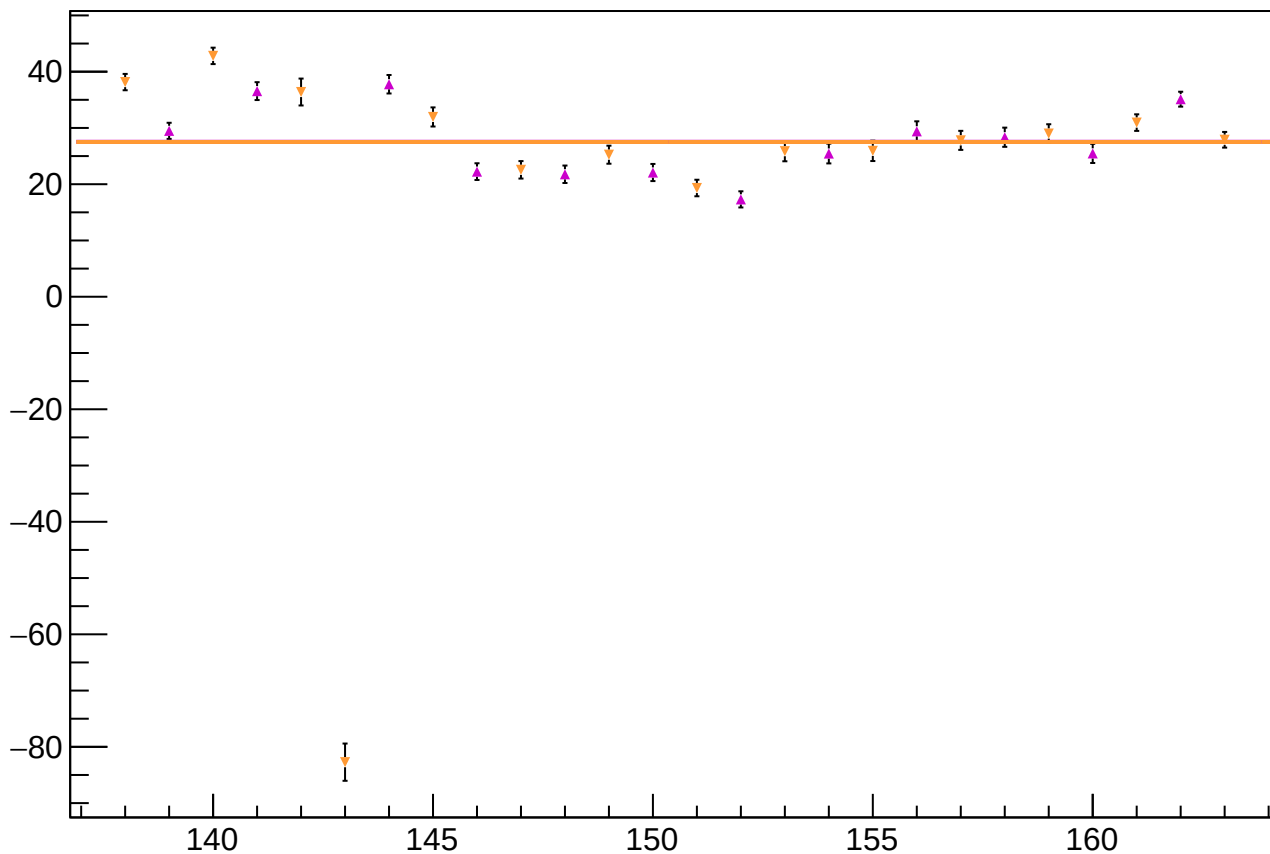
+ sign 122.118 $\pm$ 0.043  $\chi^2$ /NDF: 257736.0/30

All: 120.436 $\pm$ 0.030  $\chi^2$ /NDF: 576423.2/61

- sign 118.784 $\pm$ 0.042  $\chi^2$ /NDF: 315614.2/30



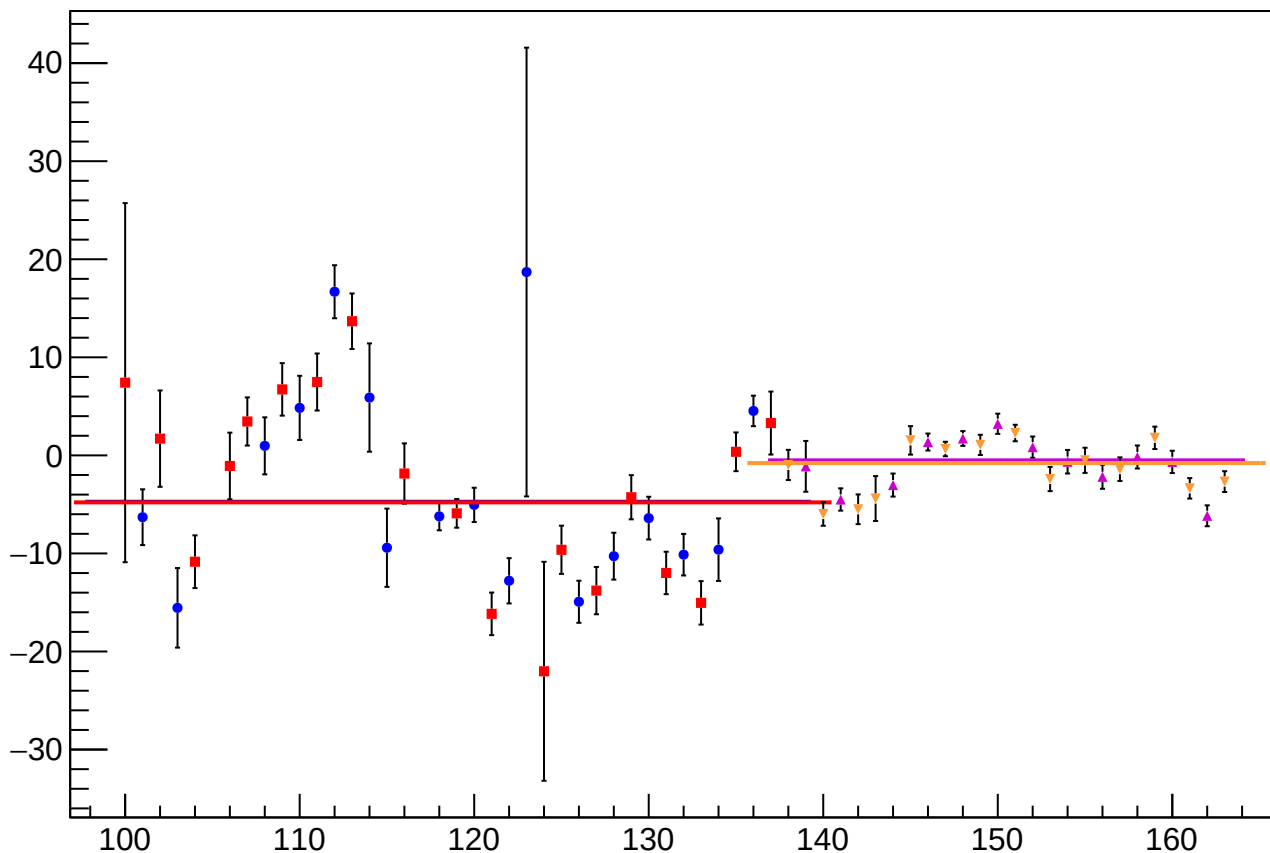
reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 27.506±/-0.441  $\chi^2$ /NDF:1344.2/13  
 Right Out: 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 27.537±/-0.450  $\chi^2$ /NDF:200.0/11

+ sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0  
 All: 27.521±/-0.315  $\chi^2$ /NDF: 1544.2/25  
 - sign 0.000±/-0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $-4.730 \pm 0.580$   $\chi^2/\text{NDF}$ : 174.8/16

Left Out:  $-0.783 \pm 0.302$   $\chi^2/\text{NDF}$ : 70.0/13

Right Out:  $-4.793 \pm 0.586$   $\chi^2/\text{NDF}$ : 193.5/18

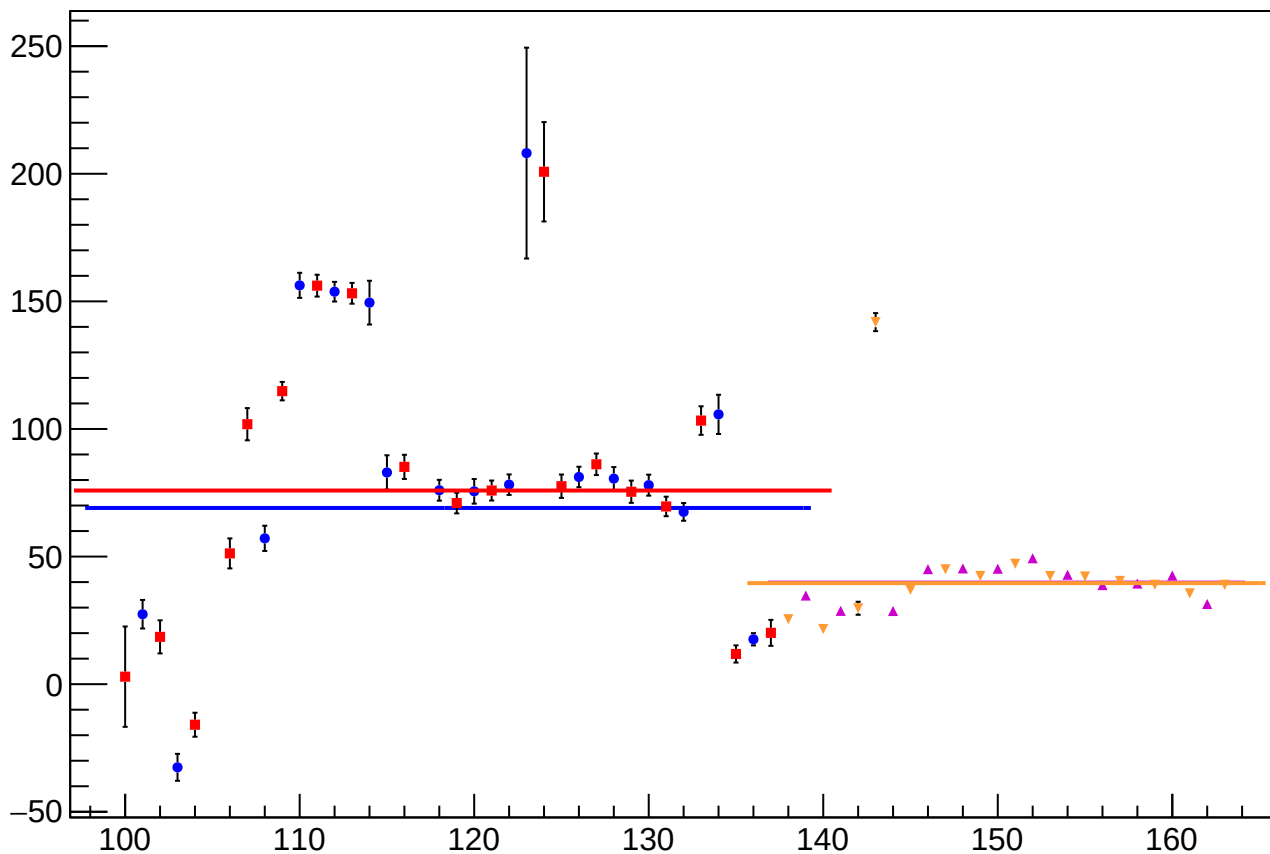
Left In:  $-0.508 \pm 0.312$   $\chi^2/\text{NDF}$ : 75.1/11

+ sign  $-1.628 \pm 0.268$   $\chi^2/\text{NDF}$ : 281.3/30

All:  $-1.544 \pm 0.192$   $\chi^2/\text{NDF}$ : 591.8/61

- sign  $-1.456 \pm 0.275$   $\chi^2/\text{NDF}$ : 310.3/30

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: 69.048+/-1.077  $\chi^2$ /NDF: 1847.9/16

Left Out: 39.593+/-0.430  $\chi^2$ /NDF:1129.4/13

Right Out: 75.878+/-1.069  $\chi^2$ /NDF: 1895.0/18

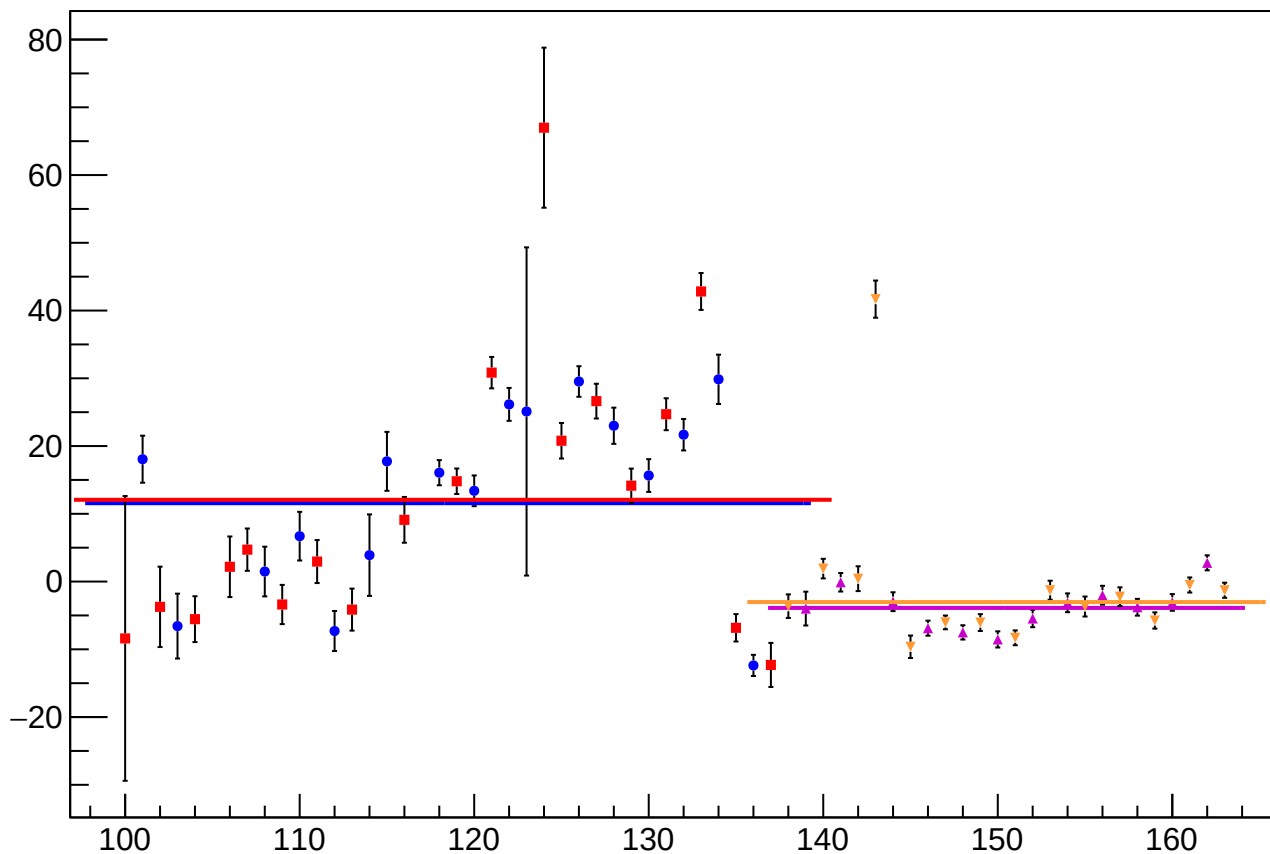
Left In: 39.800+/-0.437  $\chi^2$ /NDF:235.1/11

+ sign 43.652+/-0.400  $\chi^2$ /NDF: 3622.6/30

All: 44.296+/-0.284  $\chi^2$ /NDF: 6733.3/61

- sign 44.956+/-0.404  $\chi^2$ /NDF: 3105.4/30

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $11.565 \pm 0.658$   $\chi^2/\text{NDF}: 478.2/16$

Left Out:  $-3.024 \pm 0.357$   $\chi^2/\text{NDF}: 349.6/13$

Right Out:  $12.071 \pm 0.665$   $\chi^2/\text{NDF}: 543.3/18$

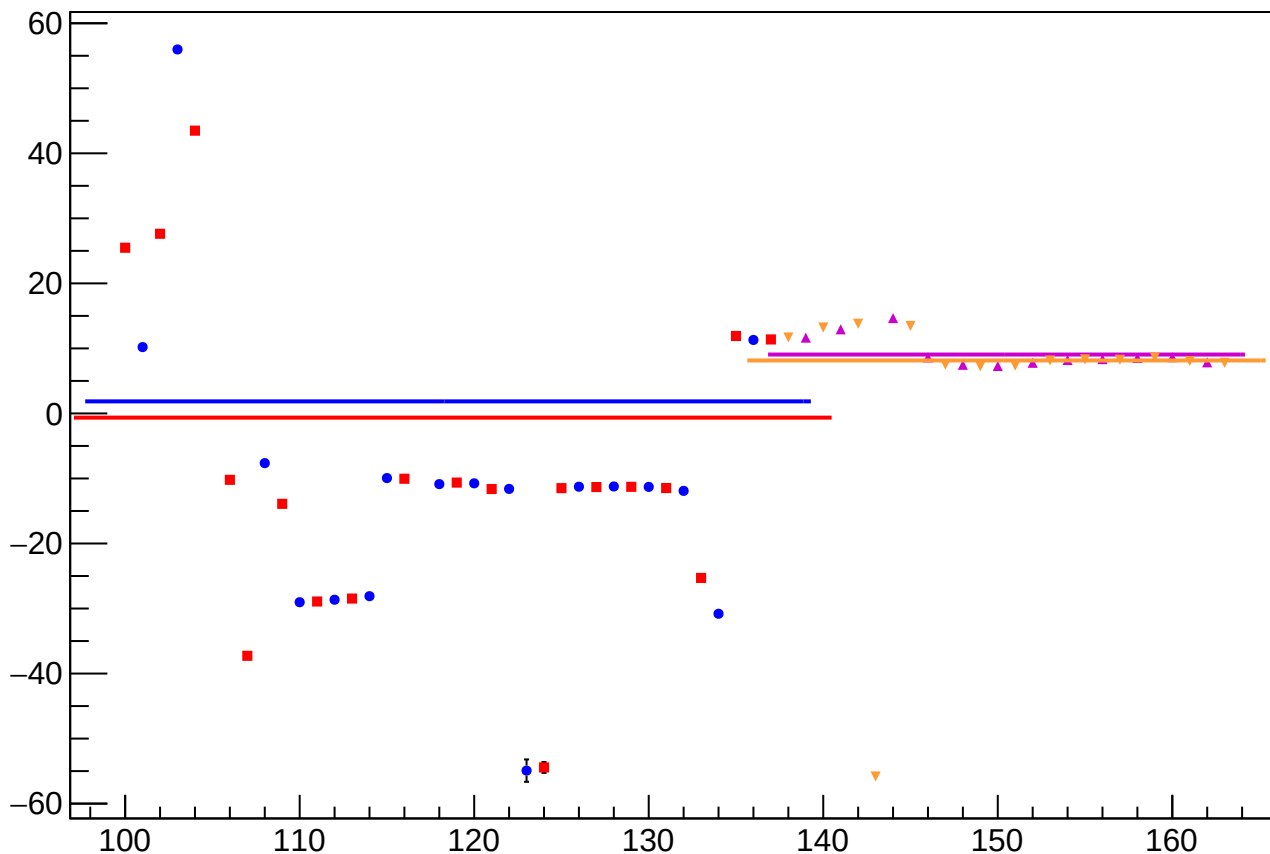
Left In:  $-3.891 \pm 0.368$   $\chi^2/\text{NDF}: 82.4/11$

+ sign  $0.287 \pm 0.314$   $\chi^2/\text{NDF}: 1207.6/30$

All:  $0.075 \pm 0.225$   $\chi^2/\text{NDF}: 2275.9/61$

- sign  $-0.148 \pm 0.322$   $\chi^2/\text{NDF}: 1067.4/30$

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug



Right In:  $1.855 \pm 0.037$   $\chi^2/\text{NDF}$ : 359414.1/16

Left Out:  $8.146 \pm 0.017$   $\chi^2/\text{NDF}$ : 222561.7/13

Right Out:  $-0.644 \pm 0.037$   $\chi^2/\text{NDF}$ : 361625.7/18

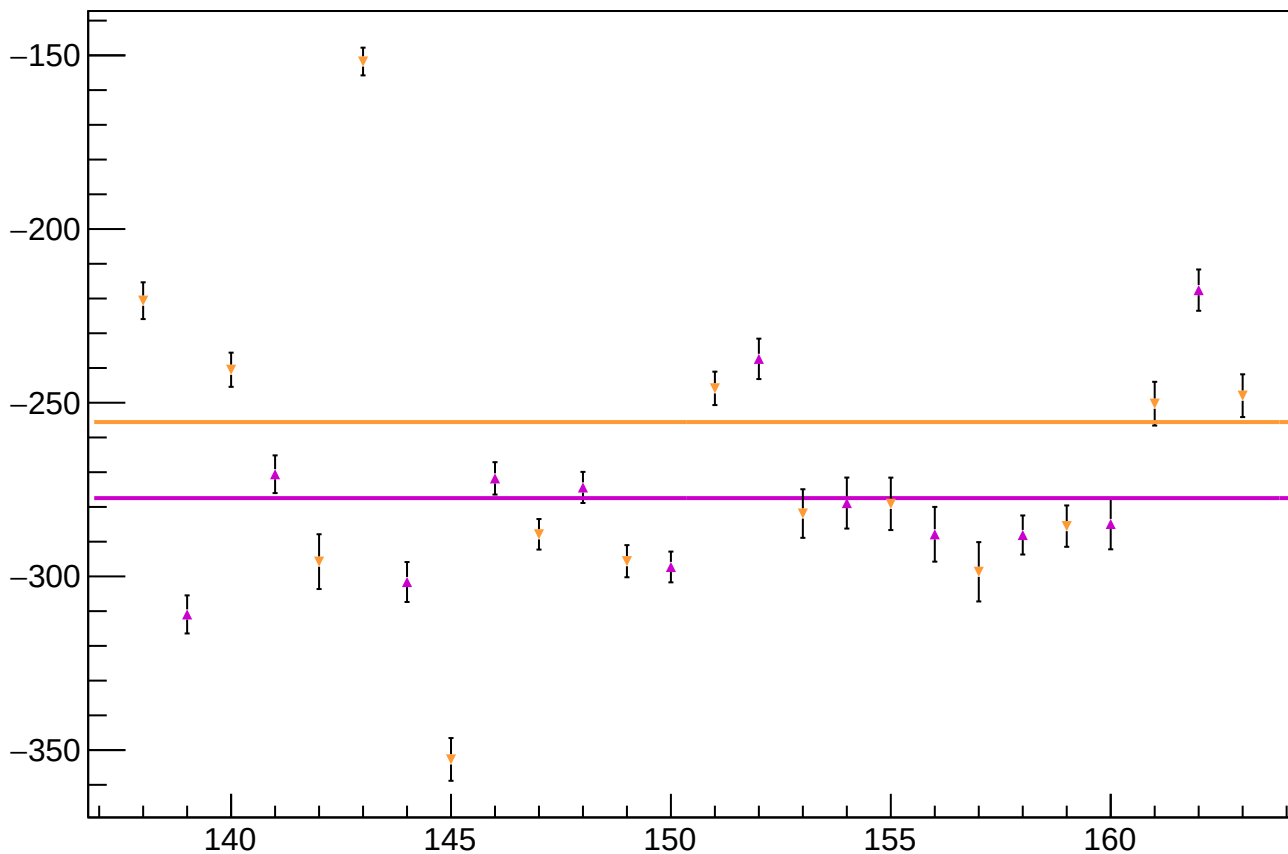
Left In:  $9.058 \pm 0.017$   $\chi^2/\text{NDF}$ : 13980.8/11

+ sign  $7.070 \pm 0.015$   $\chi^2/\text{NDF}$ : 605943.9/30

All:  $7.220 \pm 0.011$   $\chi^2/\text{NDF}$ : 1038391.6/61

- sign  $7.372 \pm 0.015$   $\chi^2/\text{NDF}$ : 432255.6/30

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -255.565+/-1.482  $\chi^2/\text{NDF}$ :1214.7/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

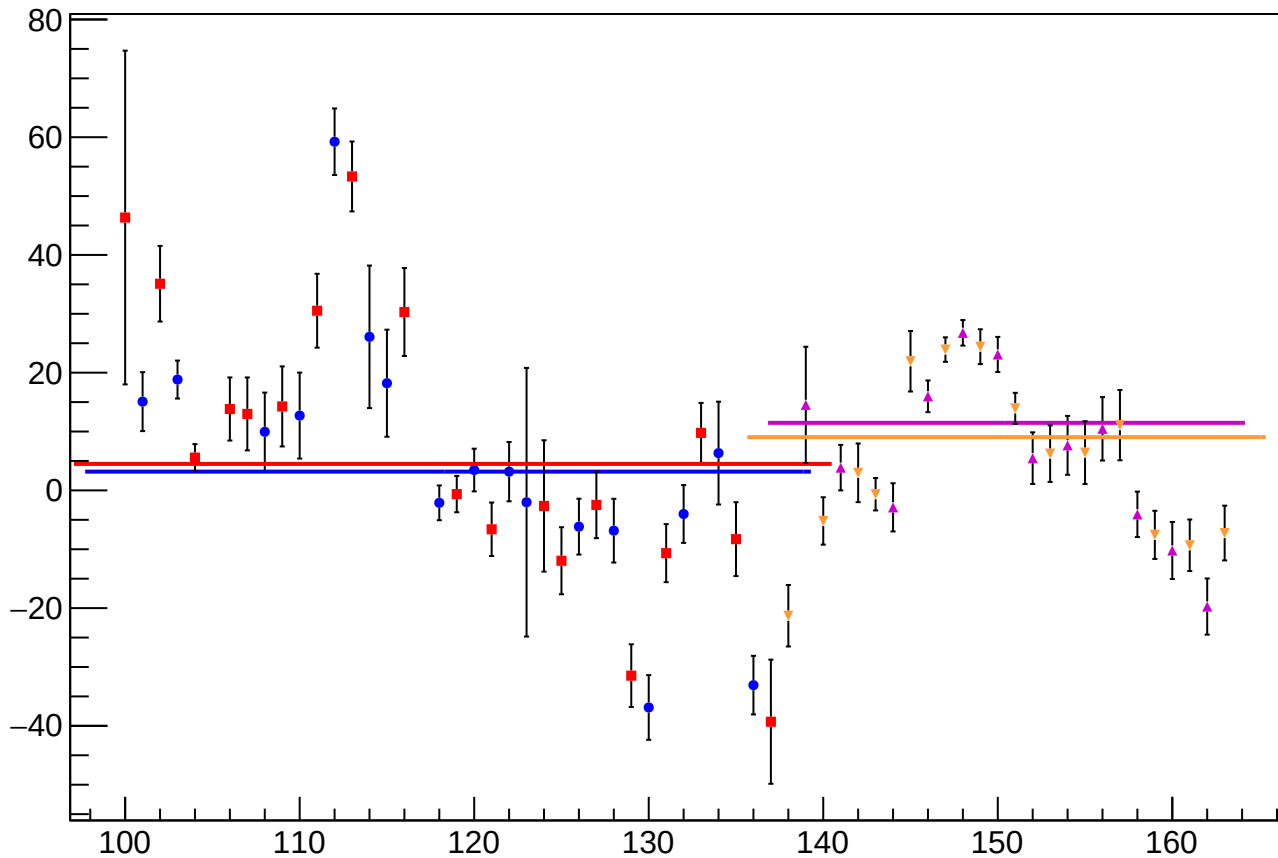
Left In: -277.458+/-1.607  $\chi^2/\text{NDF}$ :233.9/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -265.624+/-1.089  $\chi^2/\text{NDF}$ : 1548.9/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug



Right In:  $3.188 \pm 1.225$   $\chi^2/\text{NDF}$ : 255.6/16

Left Out:  $9.046 \pm 0.971$   $\chi^2/\text{NDF}$ : 194.8/13

Right Out:  $4.497 \pm 1.160$   $\chi^2/\text{NDF}$ : 225.4/18

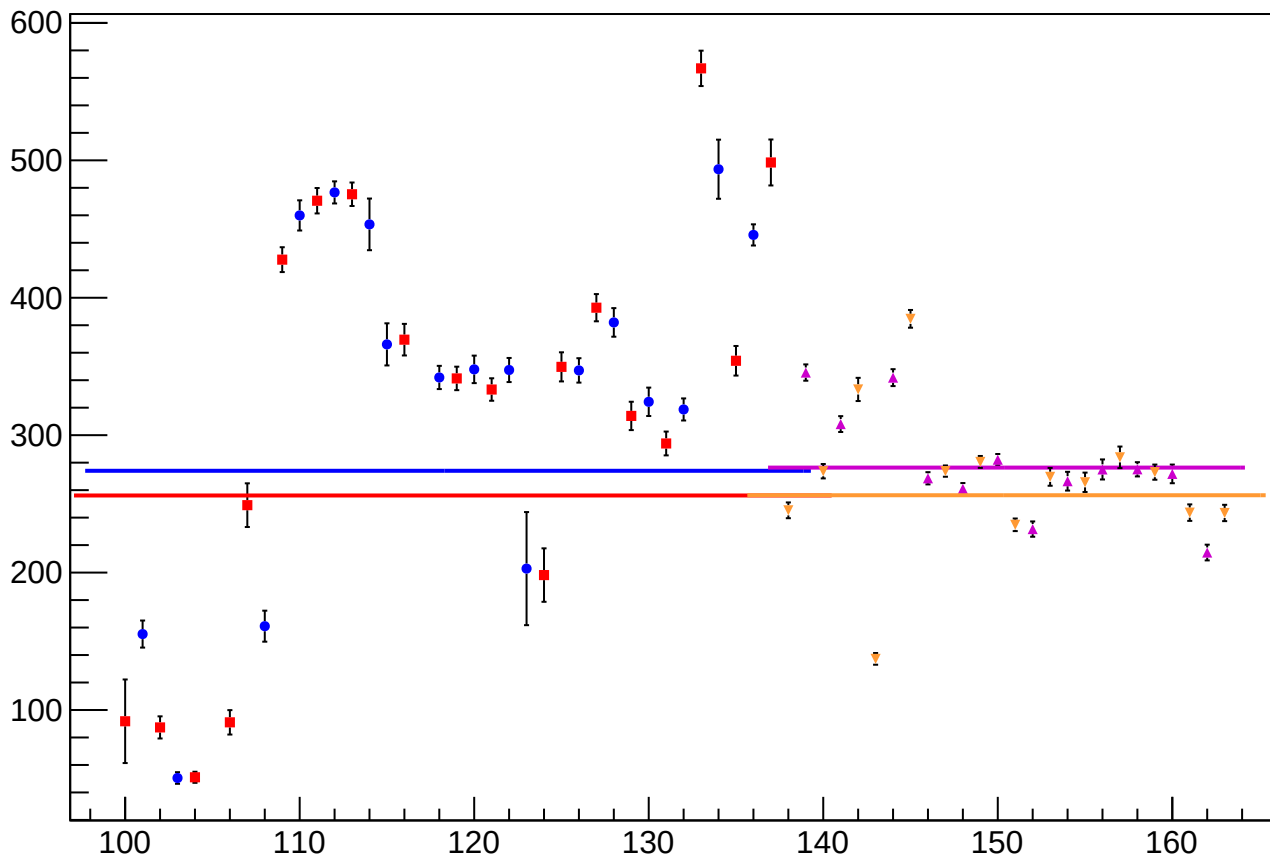
Left In:  $11.478 \pm 1.066$   $\chi^2/\text{NDF}$ : 165.3/11

+ sign  $6.786 \pm 0.761$   $\chi^2/\text{NDF}$ : 464.5/30

All:  $7.510 \pm 0.546$   $\chi^2/\text{NDF}$ : 876.8/61

- sign  $8.280 \pm 0.785$   $\chi^2/\text{NDF}$ : 410.4/30

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug



Right In:  $274.079 \pm 2.191$   $\chi^2/\text{NDF}: 5112.0/16$

Left Out:  $256.287 \pm 1.459$   $\chi^2/\text{NDF}: 1384.1/13$

Right Out:  $256.109 \pm 2.080$   $\chi^2/\text{NDF}: 6444.1/18$

Left In:  $276.403 \pm 1.558$   $\chi^2/\text{NDF}: 481.5/11$

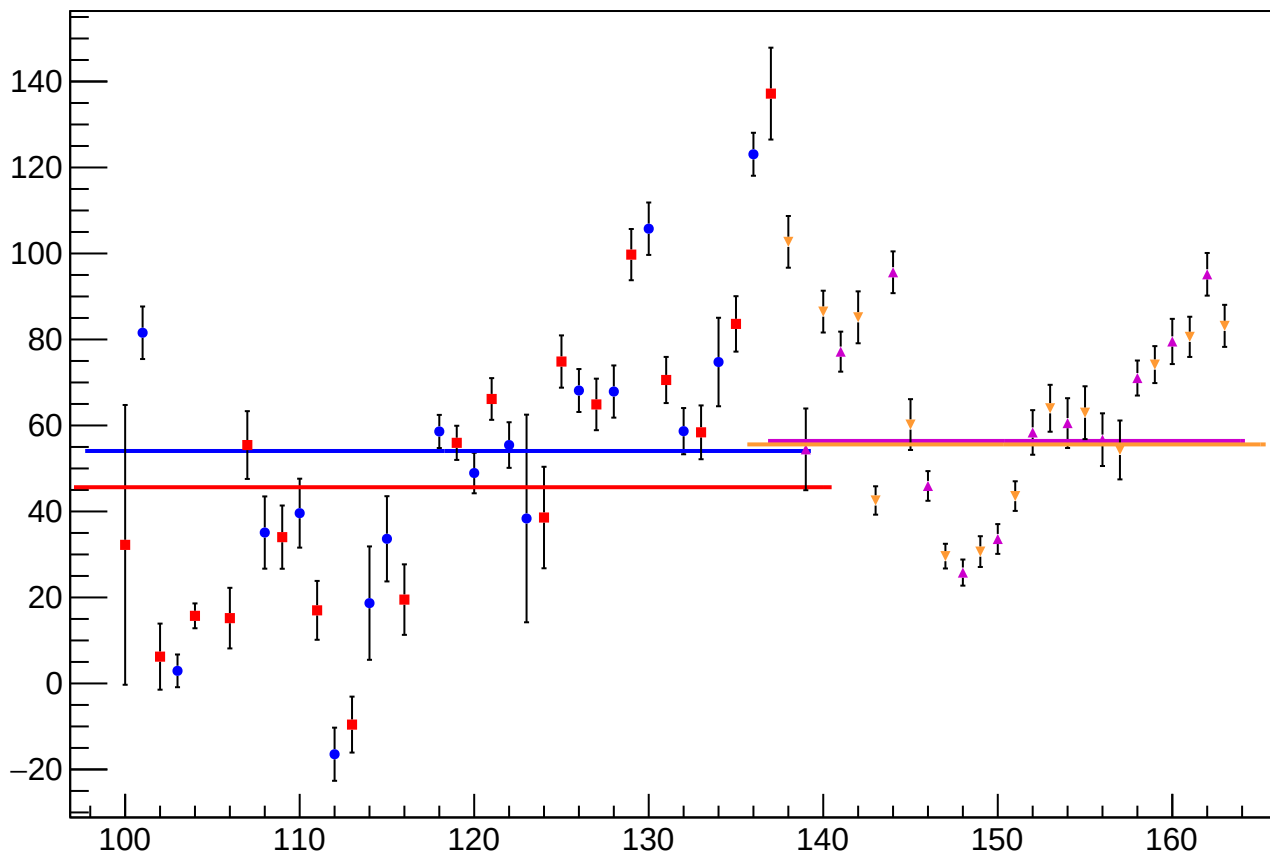
+ sign  $261.755 \pm 1.215$   $\chi^2/\text{NDF}: 6541.7/30$

All:  $265.337 \pm 0.870$   $\chi^2/\text{NDF}: 13546.1/61$

- sign  $269.112 \pm 1.247$   $\chi^2/\text{NDF}: 6986.5/30$



reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug



Right In: 54.065 $\pm$ 1.421  $\chi^2$ /NDF: 634.4/16

Left Out: 55.592 $\pm$ 1.175  $\chi^2$ /NDF:367.3/13

Right Out: 45.637 $\pm$ 1.359  $\chi^2$ /NDF: 530.8/18

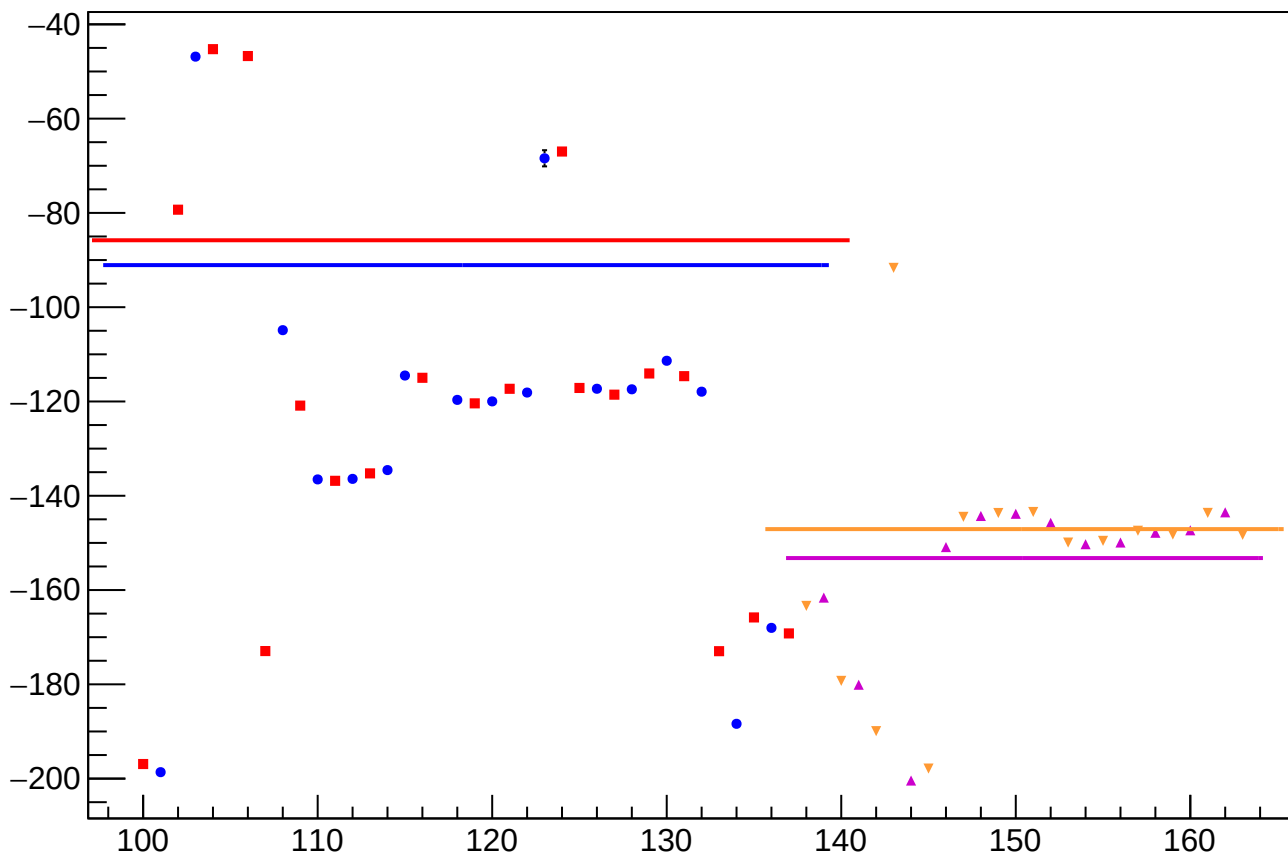
Left In: 56.398 $\pm$ 1.284  $\chi^2$ /NDF:333.3/11

+ sign 54.972 $\pm$ 0.905  $\chi^2$ /NDF: 1002.4/30

All: 53.202 $\pm$ 0.650  $\chi^2$ /NDF: 1907.5/61

- sign 51.321 $\pm$ 0.934  $\chi^2$ /NDF: 897.2/30

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug



Right In: -91.074 $\pm$ 0.068  $\chi^2$ /NDF: 534647.5/16

Left Out: -147.074 $\pm$ 0.059  $\chi^2$ /NDF:187072.7/13

Right Out: -85.803 $\pm$ 0.065  $\chi^2$ /NDF: 495895.1/18

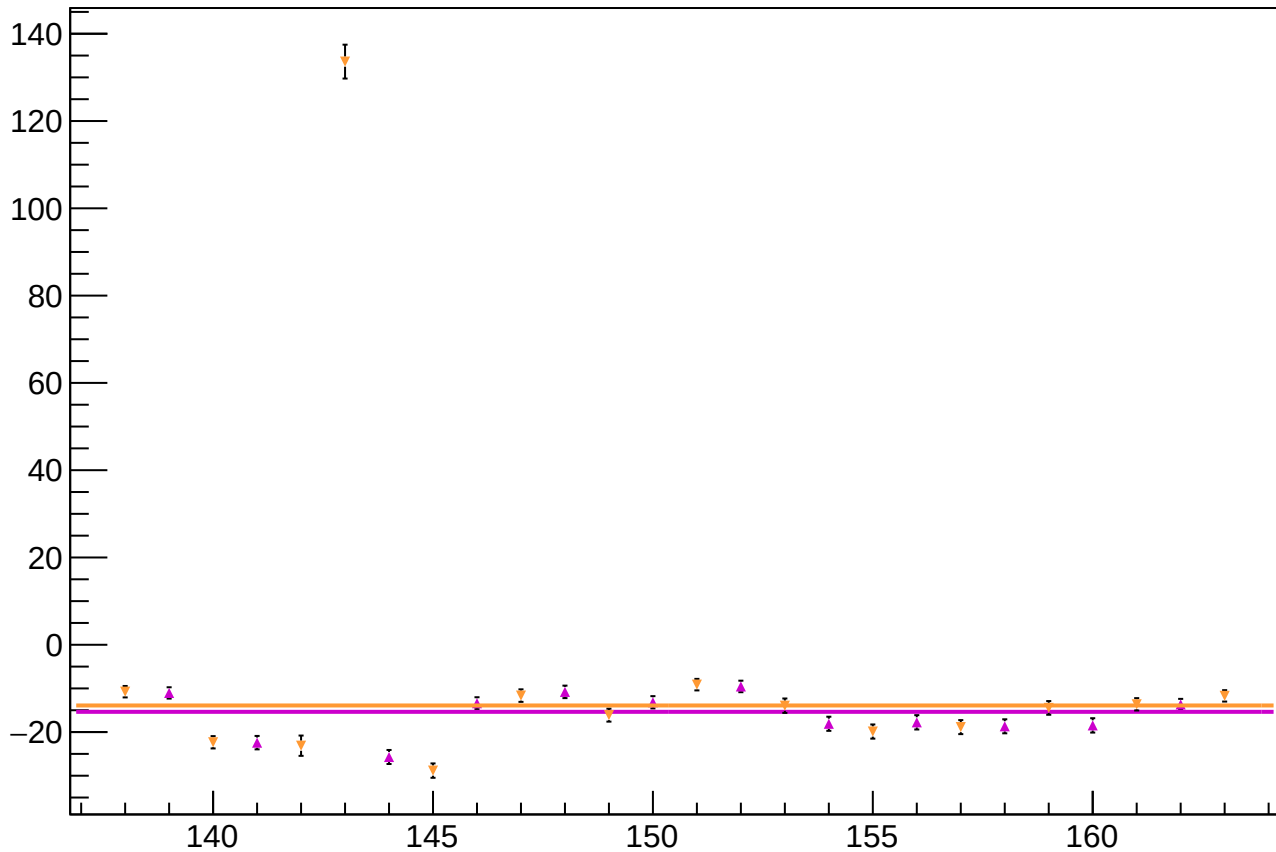
Left In: -153.216 $\pm$ 0.062  $\chi^2$ /NDF:55647.3/11

+ sign -122.974 $\pm$ 0.044  $\chi^2$ /NDF: 1113464.0/30

All: -122.089 $\pm$ 0.032  $\chi^2$ /NDF: 2229612.6/61

- sign -121.183 $\pm$ 0.045  $\chi^2$ /NDF: 1115340.8/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.906 $\pm$ 0.414  $\chi^2$ /NDF:1627.8/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

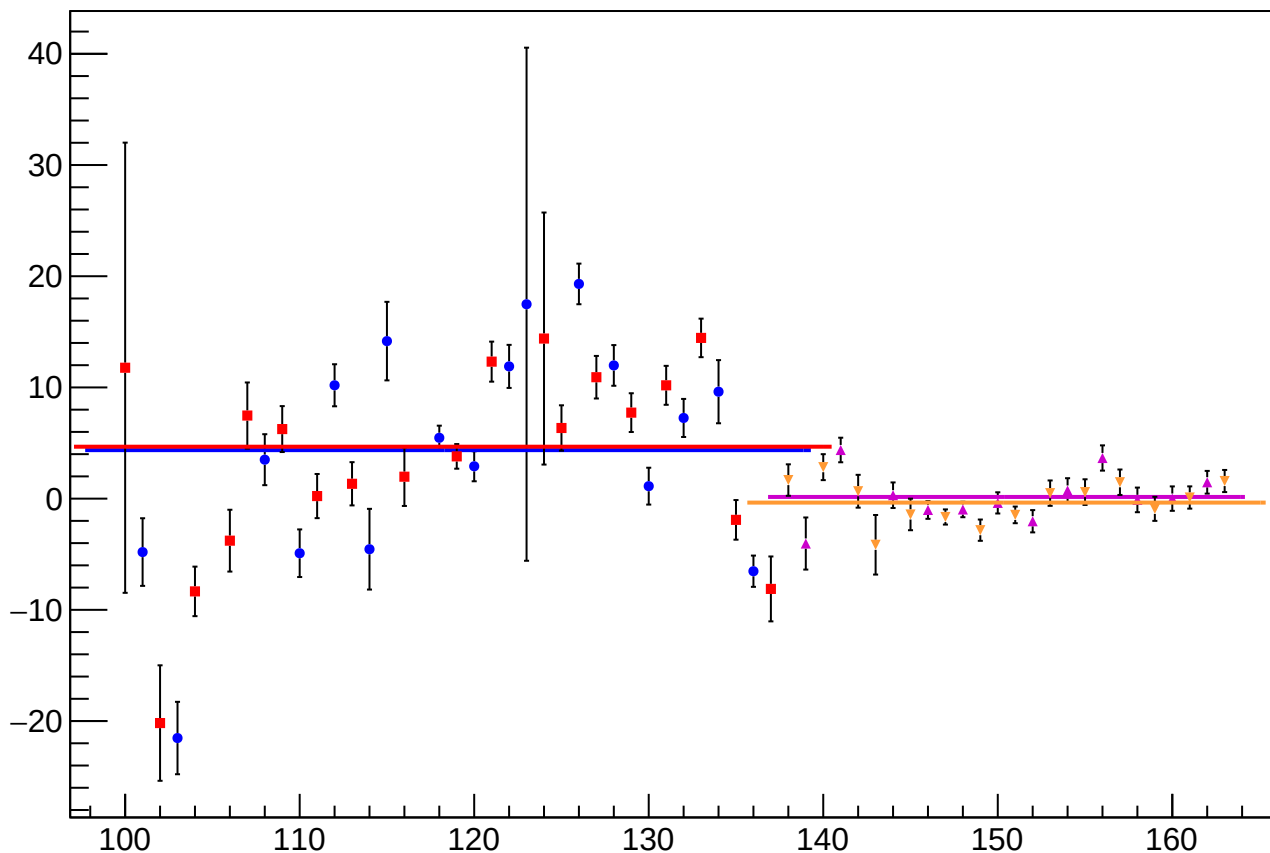
Left In: -15.364 $\pm$ 0.421  $\chi^2$ /NDF:122.3/11

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -14.622 $\pm$ 0.295  $\chi^2$ /NDF: 1756.2/25

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug



Right In:  $4.361 \pm 0.464$   $\chi^2/\text{NDF}$ : 286.5/16

Left Out:  $-0.356 \pm 0.283$   $\chi^2/\text{NDF}$ : 33.1/13

Right Out:  $4.670 \pm 0.474$   $\chi^2/\text{NDF}$ : 185.4/18

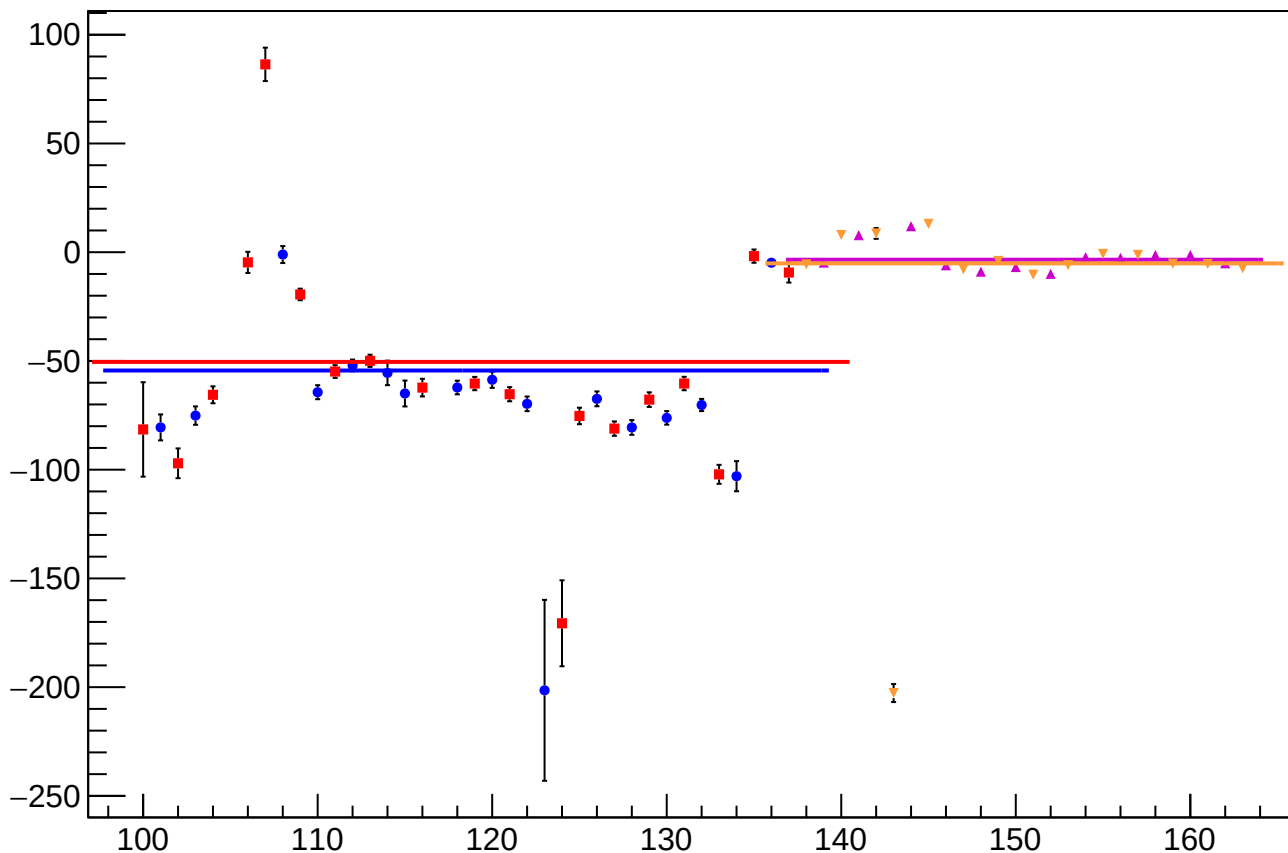
Left In:  $0.152 \pm 0.293$   $\chi^2/\text{NDF}$ : 39.2/11

+ sign  $0.920 \pm 0.241$   $\chi^2/\text{NDF}$ : 394.9/30

All:  $1.152 \pm 0.173$   $\chi^2/\text{NDF}$ : 687.1/61

- sign  $1.398 \pm 0.249$   $\chi^2/\text{NDF}$ : 290.3/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug



Right In: -54.392 $\pm$ 0.863  $\chi^2$ /NDF: 1013.4/16

Left Out: -5.137 $\pm$ 0.403  $\chi^2$ /NDF: 2533.5/13

Right Out: -50.441 $\pm$ 0.857  $\chi^2$ /NDF: 1324.7/18

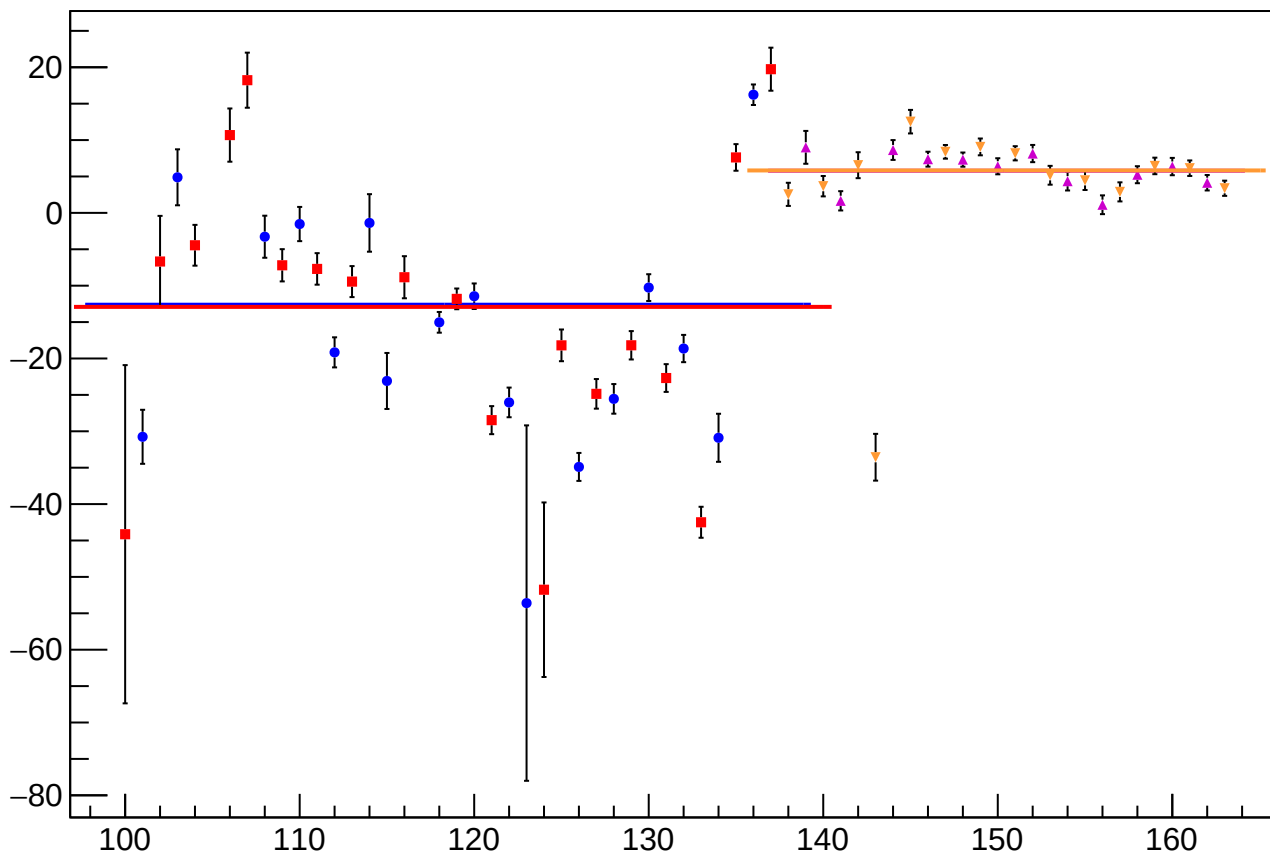
Left In: -3.455 $\pm$ 0.409  $\chi^2$ /NDF: 189.1/11

+ sign -13.960 $\pm$ 0.365  $\chi^2$ /NDF: 6223.8/30

All: -13.071 $\pm$ 0.260  $\chi^2$ /NDF: 10196.3/61

- sign -12.161 $\pm$ 0.369  $\chi^2$ /NDF: 3960.5/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug



Right In:  $-12.616 \pm 0.530$   $\chi^2/\text{NDF}$ : 788.2/16

Left Out:  $5.828 \pm 0.334$   $\chi^2/\text{NDF}$ : 207.8/13

Right Out:  $-12.912 \pm 0.538$   $\chi^2/\text{NDF}$ : 730.2/18

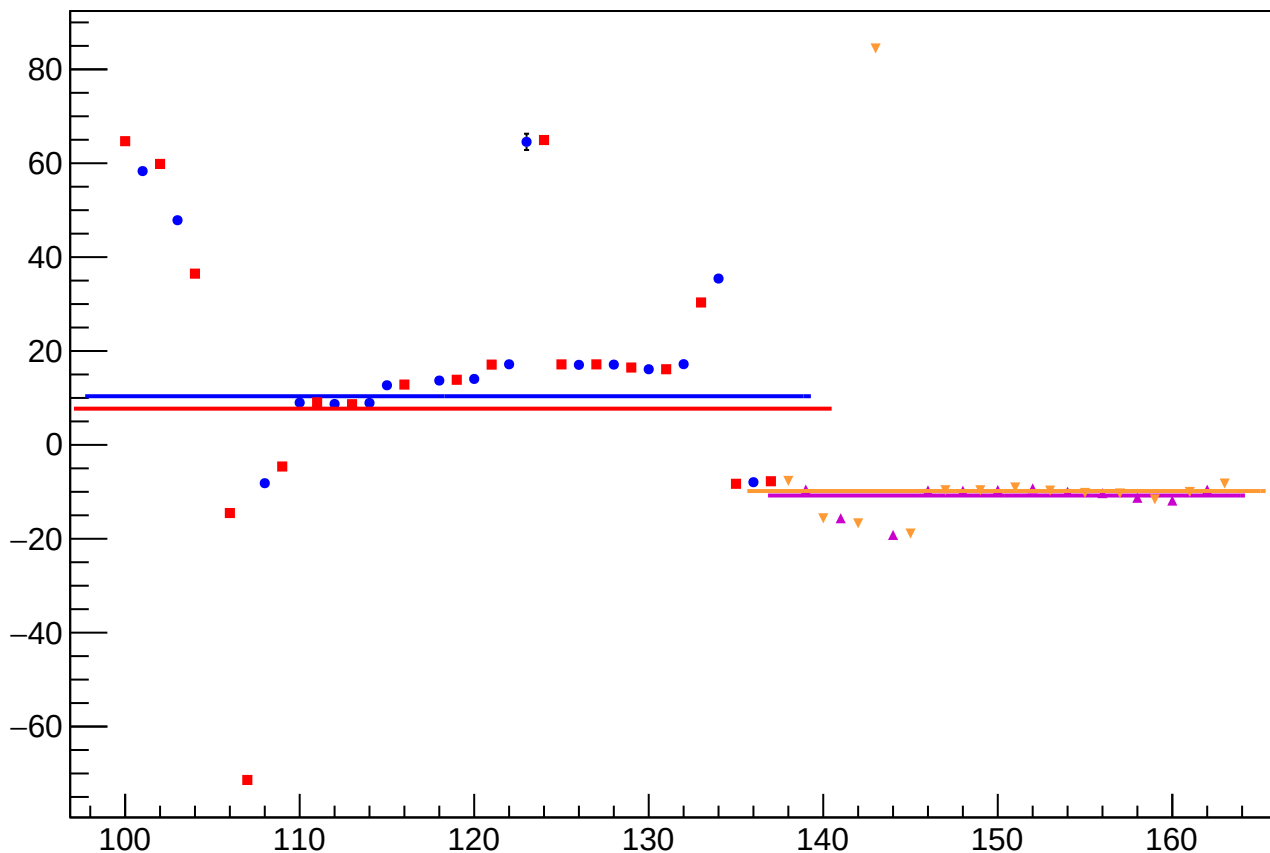
Left In:  $5.786 \pm 0.345$   $\chi^2/\text{NDF}$ : 42.5/11

+ sign  $0.586 \pm 0.283$   $\chi^2/\text{NDF}$ : 1862.3/30

All:  $0.464 \pm 0.203$   $\chi^2/\text{NDF}$ : 3490.5/61

- sign  $0.334 \pm 0.291$   $\chi^2/\text{NDF}$ : 1627.9/30

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug



Right In: 10.366+/-0.031  $\chi^2$ /NDF: 381003.5/16

Left Out: -9.827+/-0.016  $\chi^2$ /NDF: 356891.9/13

Right Out: 7.719+/-0.031  $\chi^2$ /NDF: 545085.7/18

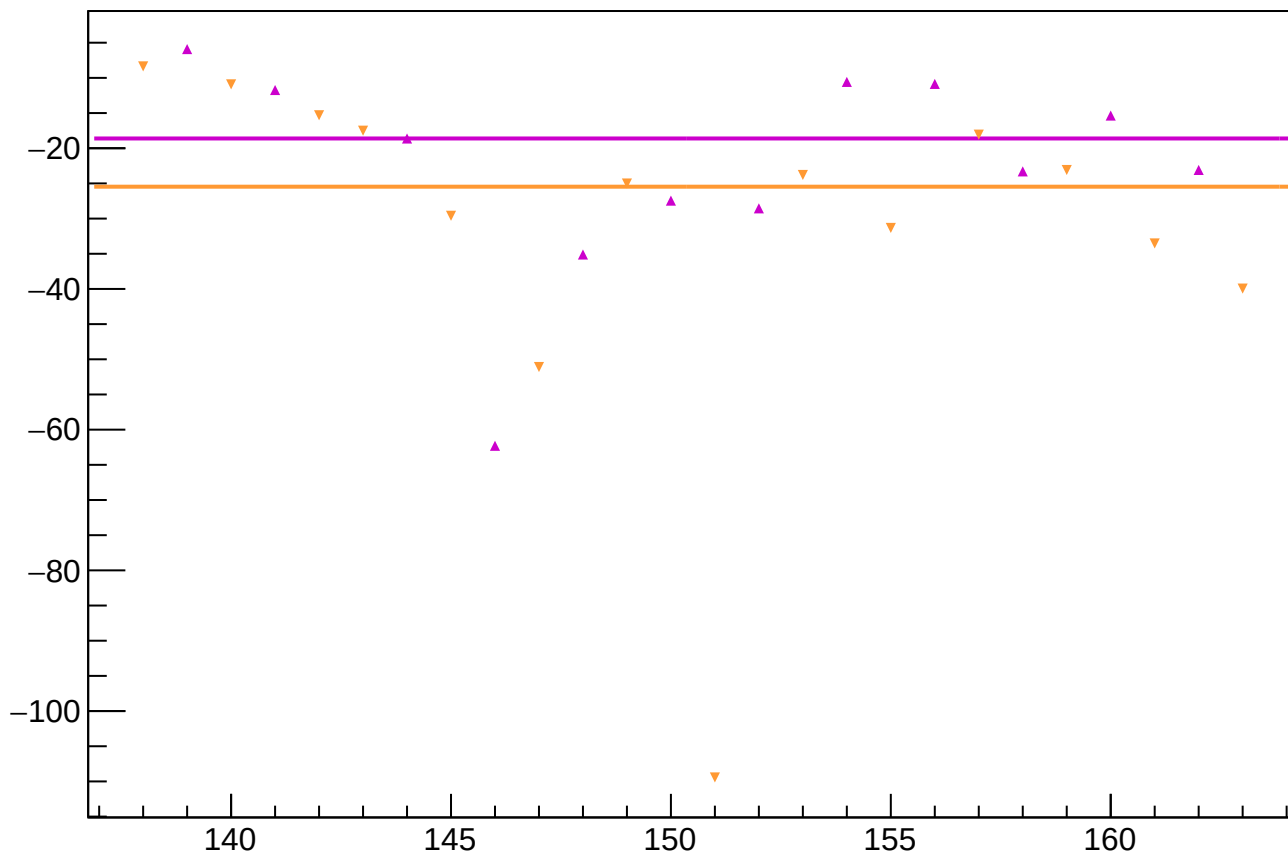
Left In: -10.786+/-0.016  $\chi^2$ /NDF: 21945.4/11

+ sign -5.595+/-0.014  $\chi^2$ /NDF: 1083519.3/30

All: -6.279+/-0.010  $\chi^2$ /NDF: 1933879.3/61

- sign -6.982+/-0.014  $\chi^2$ /NDF: 845504.8/30

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.466+/-0.069  $\chi^2/\text{NDF}$ : 56399.6/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.613+/-0.060  $\chi^2/\text{NDF}$ : 37464.7/11

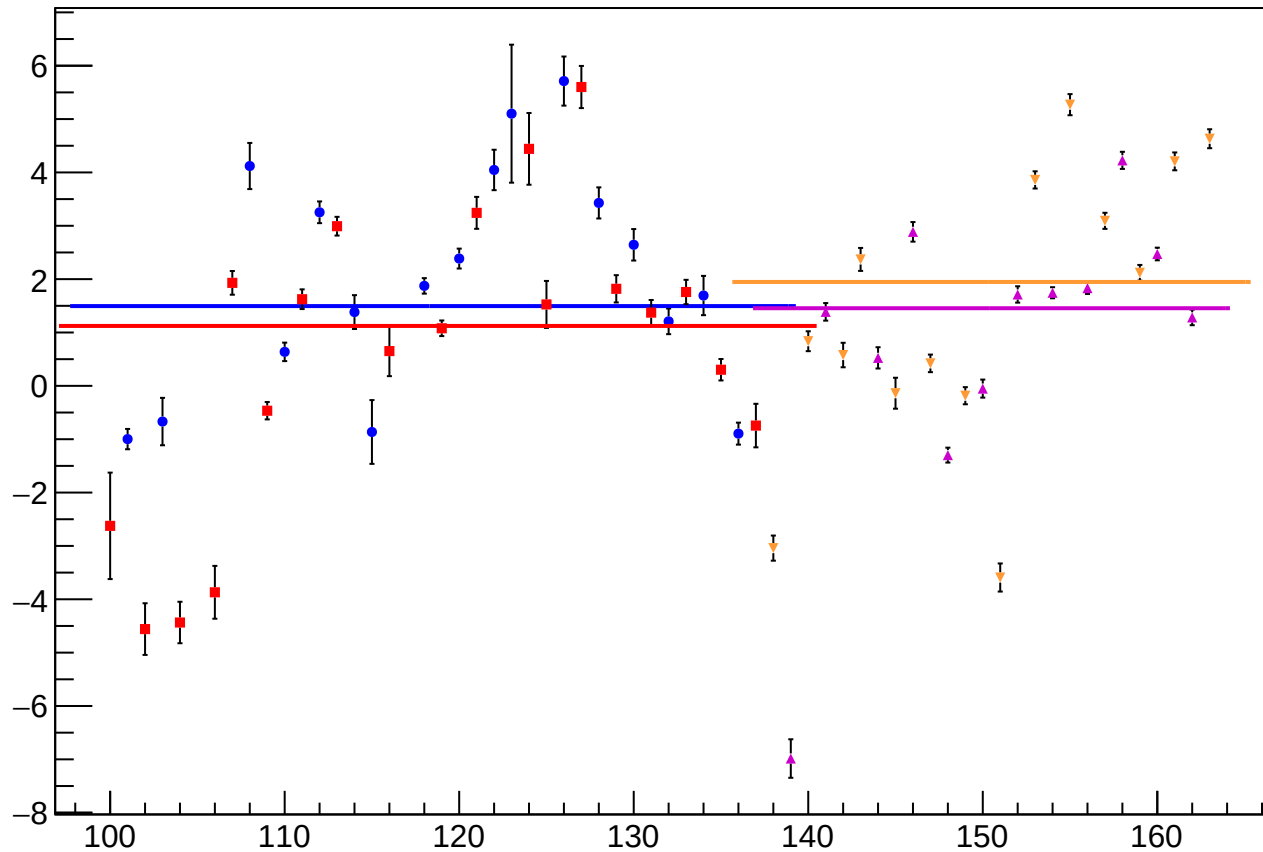
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.563+/-0.045  $\chi^2/\text{NDF}$ : 99493.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug



Right In: 1.495 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 708.8/16

Left Out: 1.947 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 2173.5/13

Right Out: 1.123 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 946.5/18

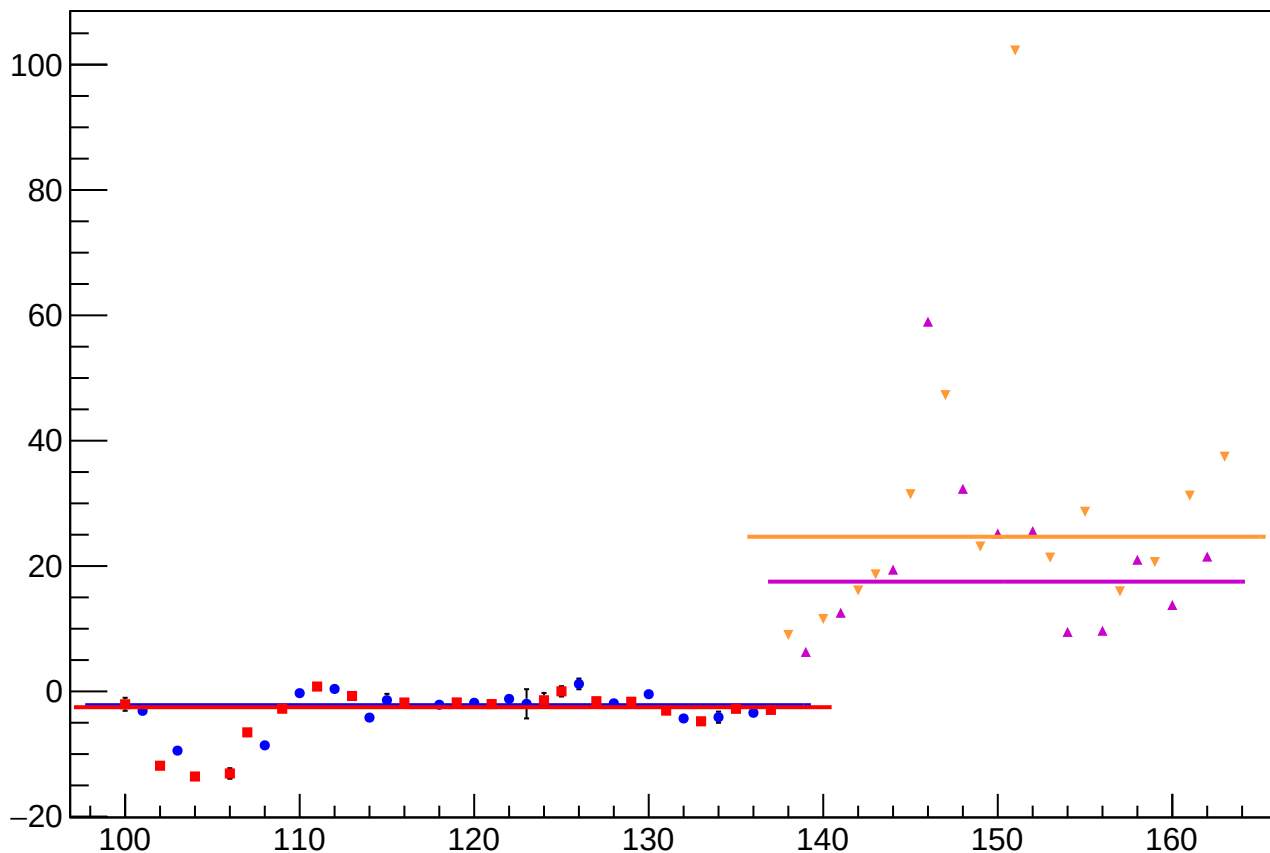
Left In: 1.455 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1493.2/11

+ sign 1.769 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 2915.5/30

All: 1.530 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 5446.1/61

- sign 1.341 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2461.0/30

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.200 \pm 0.111$   $\chi^2/\text{NDF}$ : 461.0/16

Left Out:  $24.675 \pm 0.067$   $\chi^2/\text{NDF}$ : 50474.9/13

Right Out:  $-2.520 \pm 0.099$   $\chi^2/\text{NDF}$ : 903.3/18

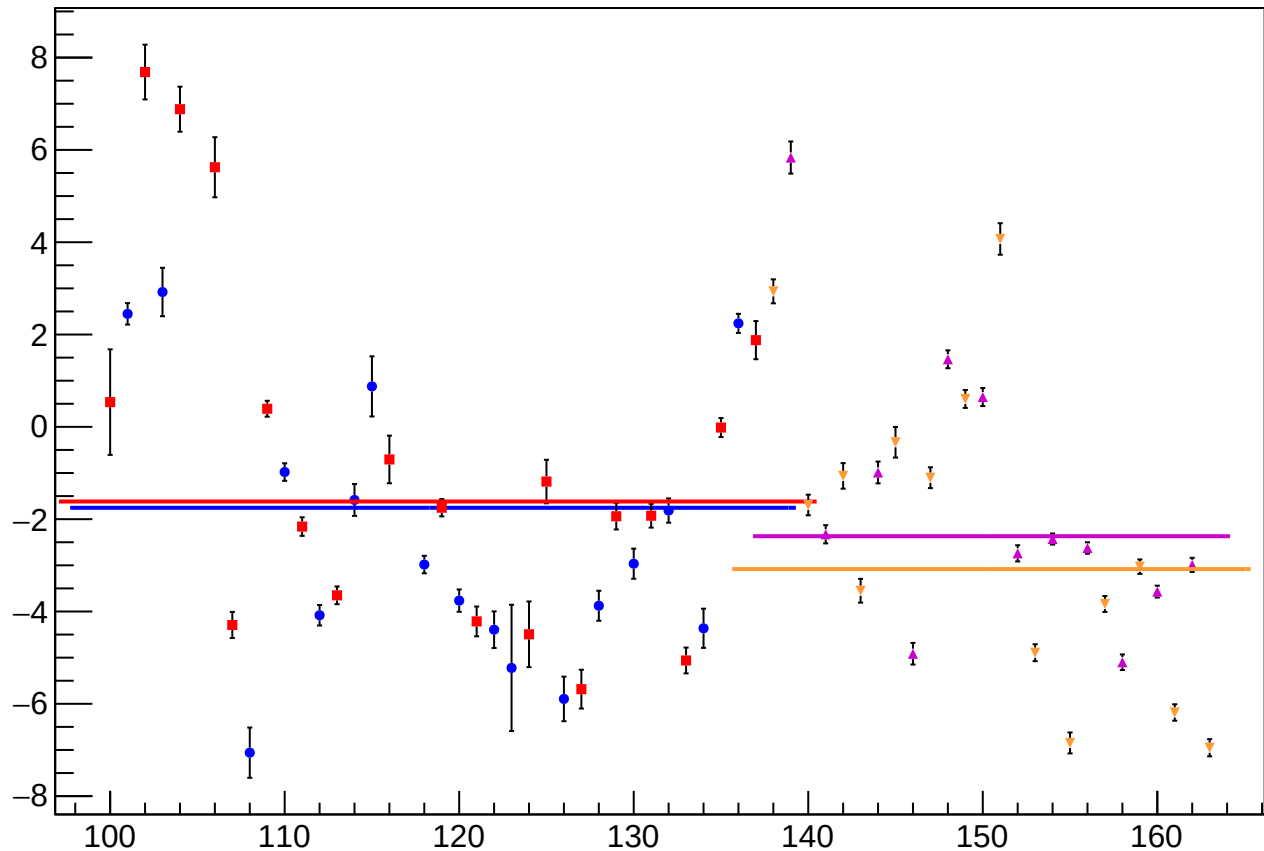
Left In:  $17.511 \pm 0.057$   $\chi^2/\text{NDF}$ : 35313.8/11

+ sign  $17.411 \pm 0.057$   $\chi^2/\text{NDF}$ : 94034.2/30

All:  $14.576 \pm 0.038$   $\chi^2/\text{NDF}$ : 165141.9/61

- sign  $12.459 \pm 0.050$   $\chi^2/\text{NDF}$ : 66861.2/30

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.753 \pm 0.070$   $\chi^2/\text{NDF}: 1345.0/16$

Left Out:  $-3.081 \pm 0.057$   $\chi^2/\text{NDF}: 2706.3/13$

Right Out:  $-1.617 \pm 0.066$   $\chi^2/\text{NDF}: 1487.5/18$

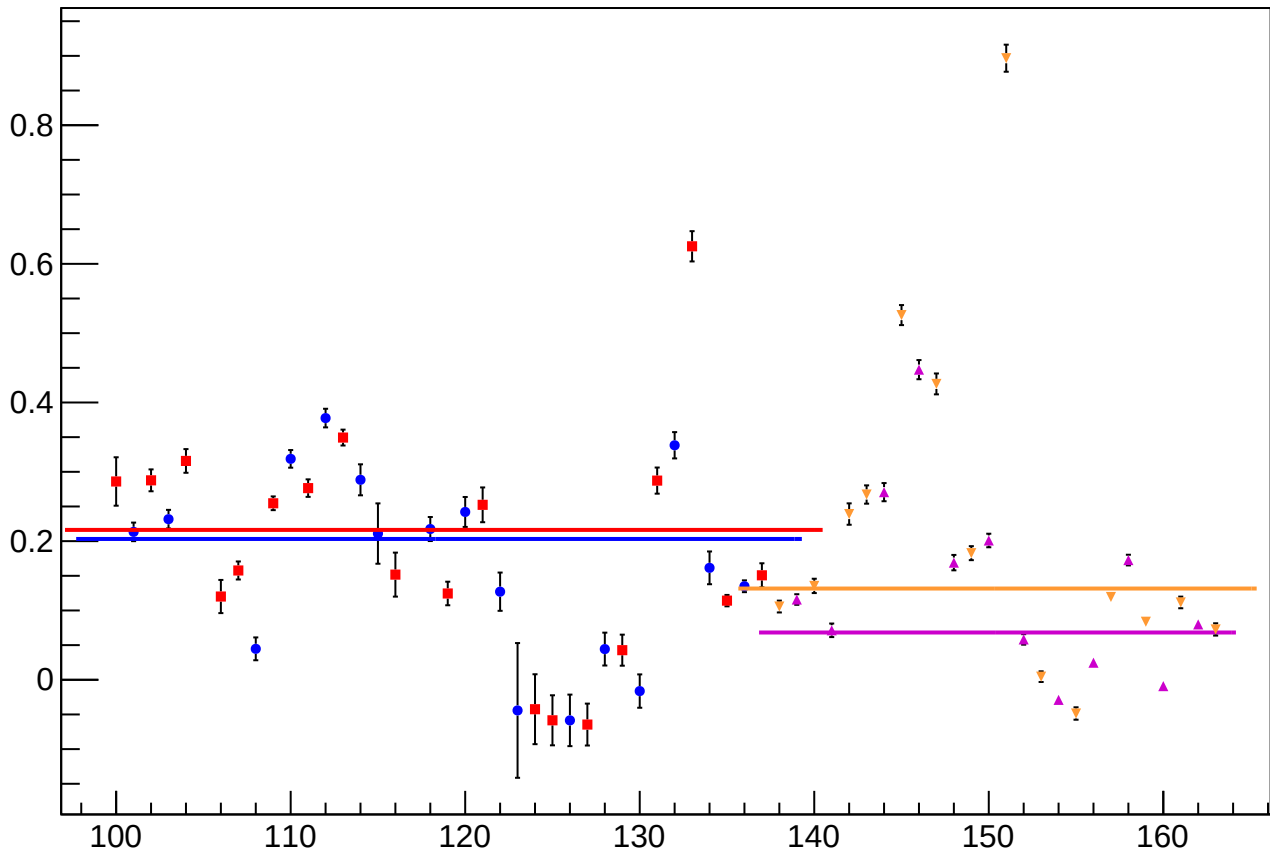
Left In:  $-2.369 \pm 0.048$   $\chi^2/\text{NDF}: 1710.4/11$

+ sign  $-2.558 \pm 0.044$   $\chi^2/\text{NDF}: 4267.6/30$

All:  $-2.303 \pm 0.029$   $\chi^2/\text{NDF}: 7609.5/61$

- sign  $-2.106 \pm 0.039$   $\chi^2/\text{NDF}: 3283.0/30$

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug



Right In:  $0.203 \pm 0.004$   $\chi^2/\text{NDF}$ : 677.2/16

Left Out:  $0.132 \pm 0.003$   $\chi^2/\text{NDF}$ : 3626.9/13

Right Out:  $0.216 \pm 0.004$   $\chi^2/\text{NDF}$ : 1067.3/18

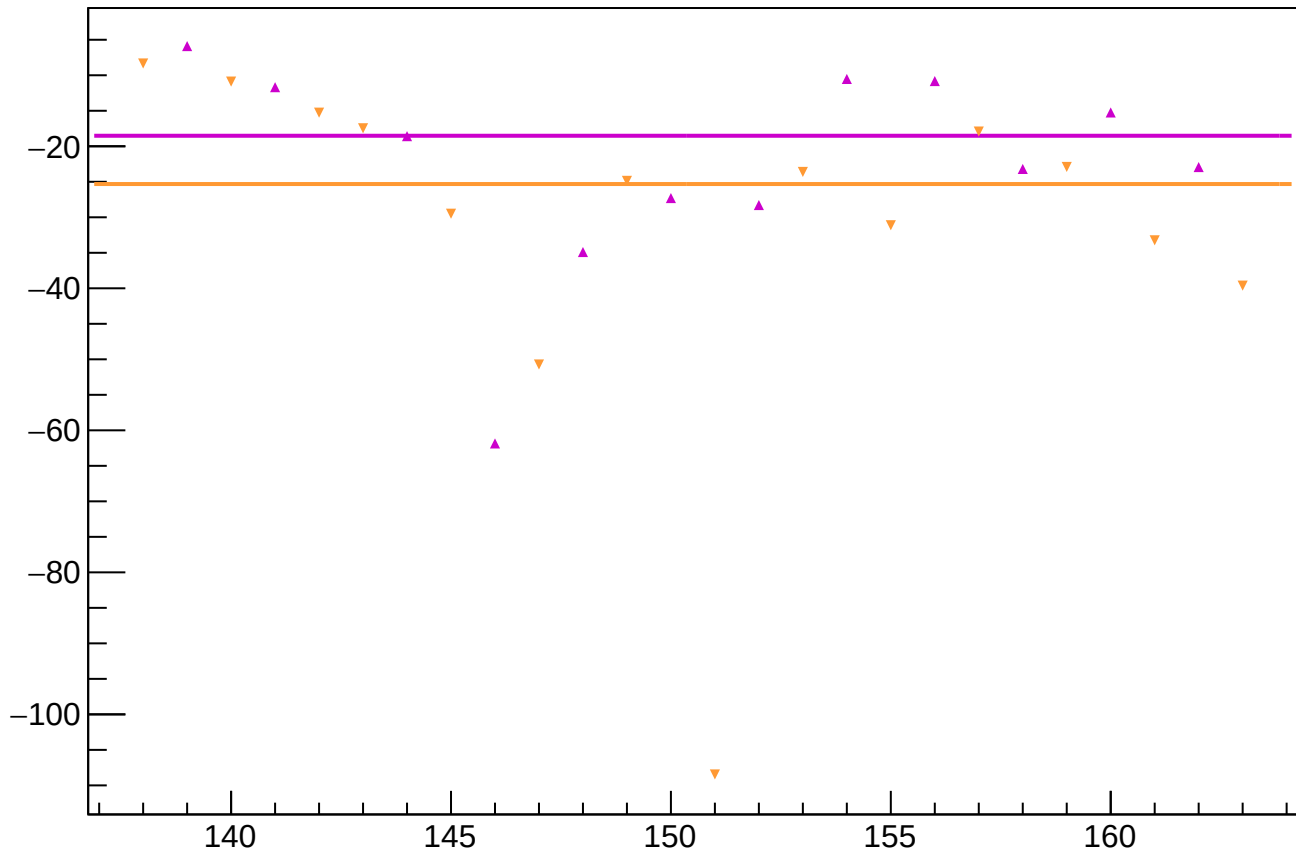
Left In:  $0.068 \pm 0.002$   $\chi^2/\text{NDF}$ : 2122.1/11

+ sign  $0.151 \pm 0.002$   $\chi^2/\text{NDF}$ : 4520.7/30

All:  $0.124 \pm 0.001$   $\chi^2/\text{NDF}$ : 9192.6/61

- sign  $0.105 \pm 0.002$   $\chi^2/\text{NDF}$ : 4400.6/30

# reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.317+/-0.068  $\chi^2/\text{NDF}$ : 56206.3/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

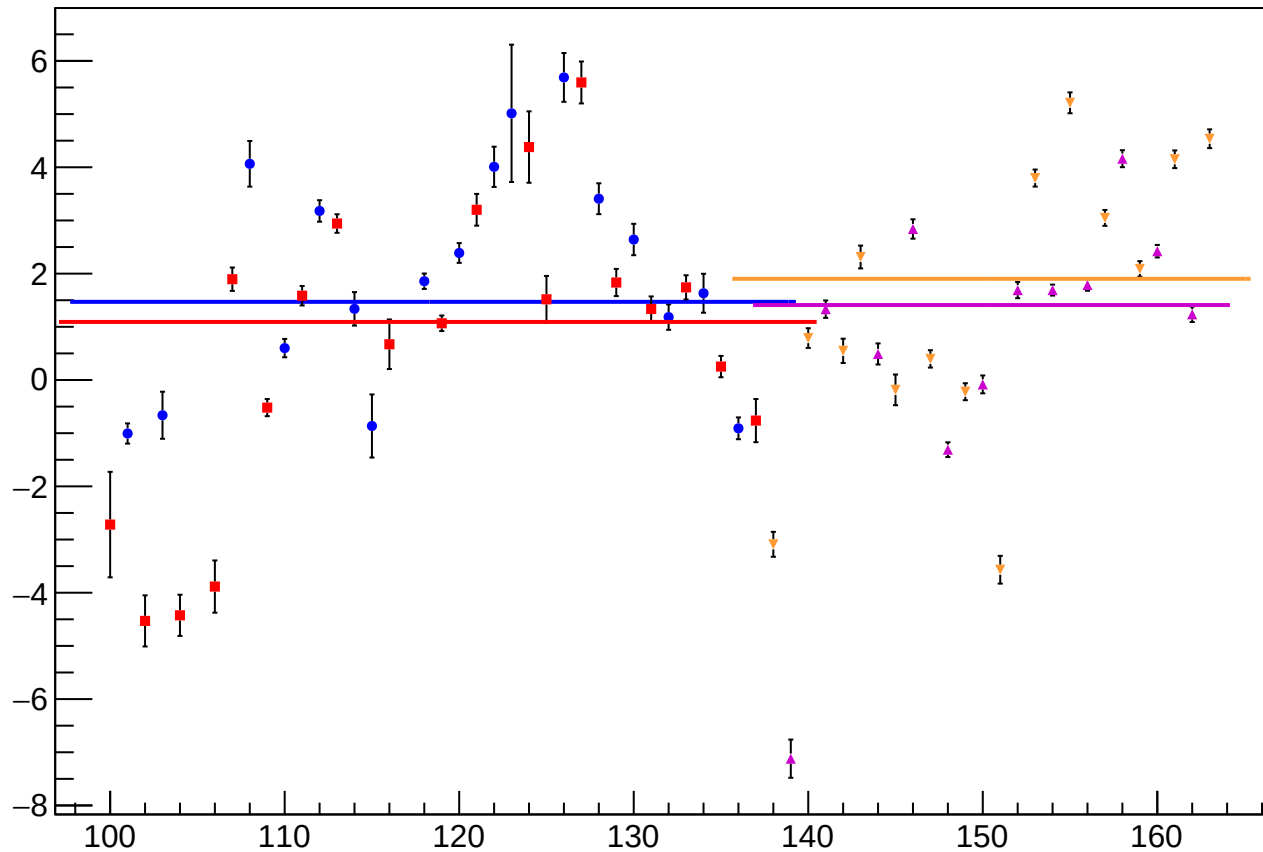
Left In: -18.518+/-0.060  $\chi^2/\text{NDF}$ : 37389.1/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.446+/-0.045  $\chi^2/\text{NDF}$ : 99204.7/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.470 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 707.9/16

Left Out: 1.903 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 2173.0/13

Right Out: 1.092 $\pm$ 0.058  $\chi^2/\text{NDF}$ : 952.1/18

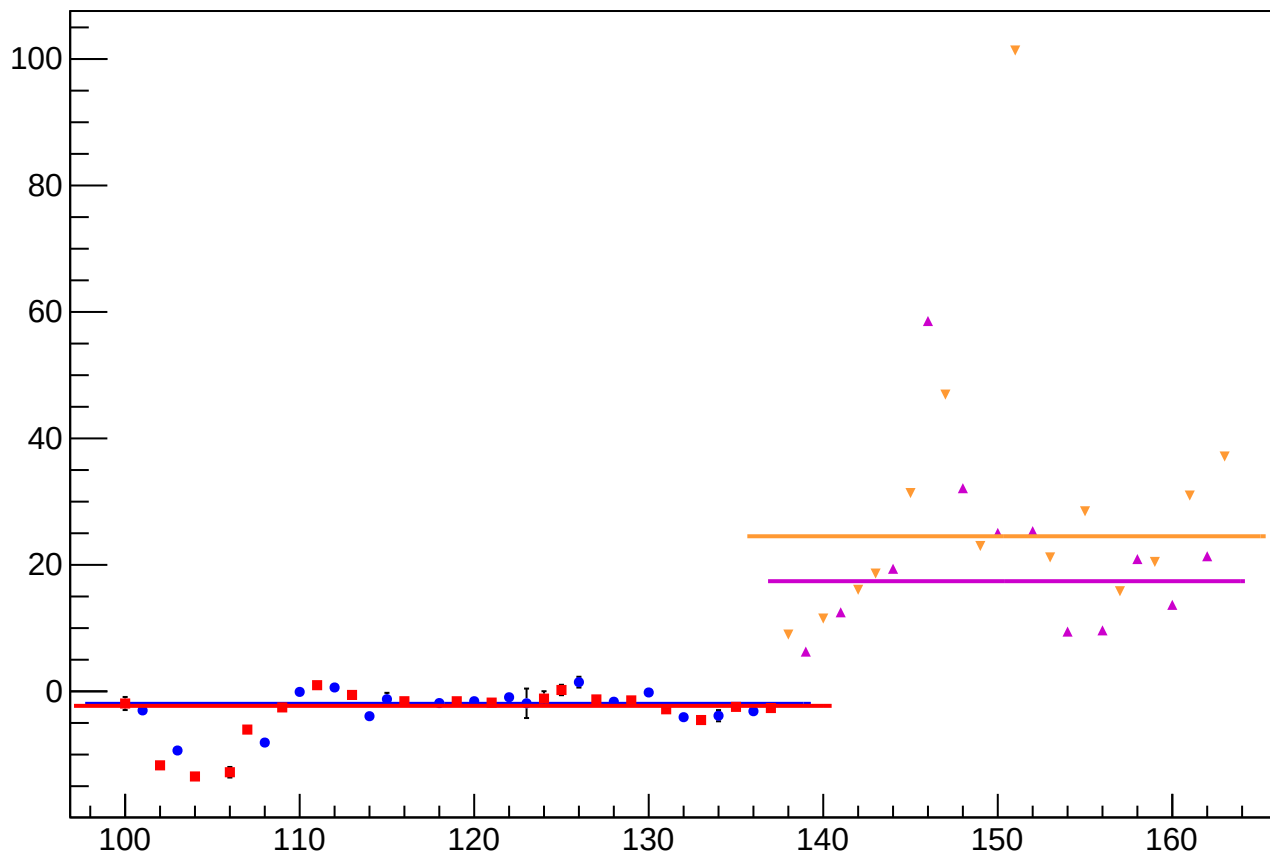
Left In: 1.409 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 1505.4/11

+ sign 1.732 $\pm$ 0.038  $\chi^2/\text{NDF}$ : 2911.7/30

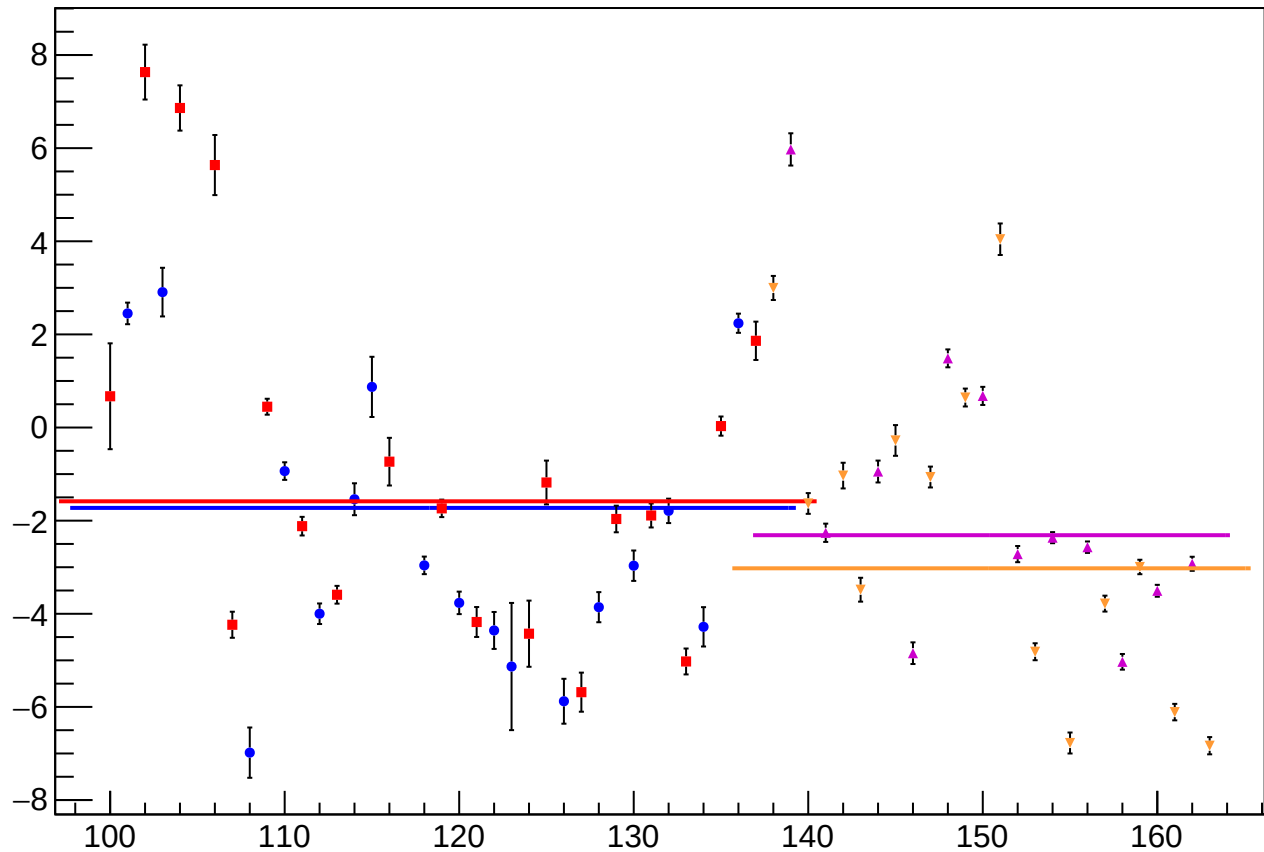
All: 1.491 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 5460.4/61

- sign 1.300 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 2477.2/30

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug



# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.726 \pm 0.070$   $\chi^2/\text{NDF}$ : 1341.5/16

Left Out:  $-3.023 \pm 0.056$   $\chi^2/\text{NDF}$ : 2704.5/13

Right Out:  $-1.584 \pm 0.065$   $\chi^2/\text{NDF}$ : 1492.8/18

Left In:  $-2.312 \pm 0.048$   $\chi^2/\text{NDF}$ : 1726.1/11

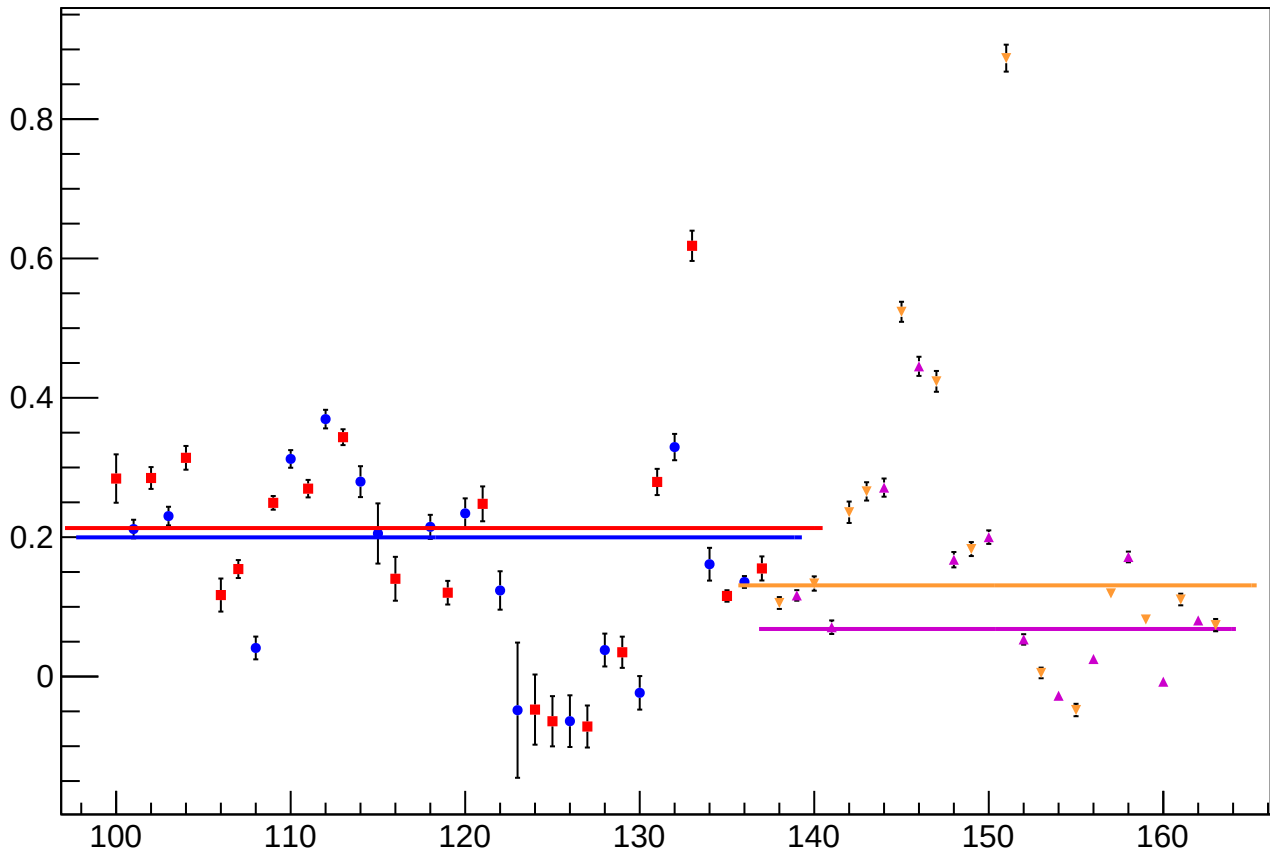
+ sign  $-2.513 \pm 0.044$   $\chi^2/\text{NDF}$ : 4254.6/30

All:  $-2.257 \pm 0.029$   $\chi^2/\text{NDF}$ : 7614.6/61

- sign  $-2.058 \pm 0.039$   $\chi^2/\text{NDF}$ : 3299.4/30



# reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug



Right In: 0.200 $\pm$ 0.004  $\chi^2$ /NDF: 662.5/16

Left Out: 0.131 $\pm$ 0.003  $\chi^2$ /NDF:3618.1/13

Right Out: 0.213 $\pm$ 0.004  $\chi^2$ /NDF: 1050.9/18

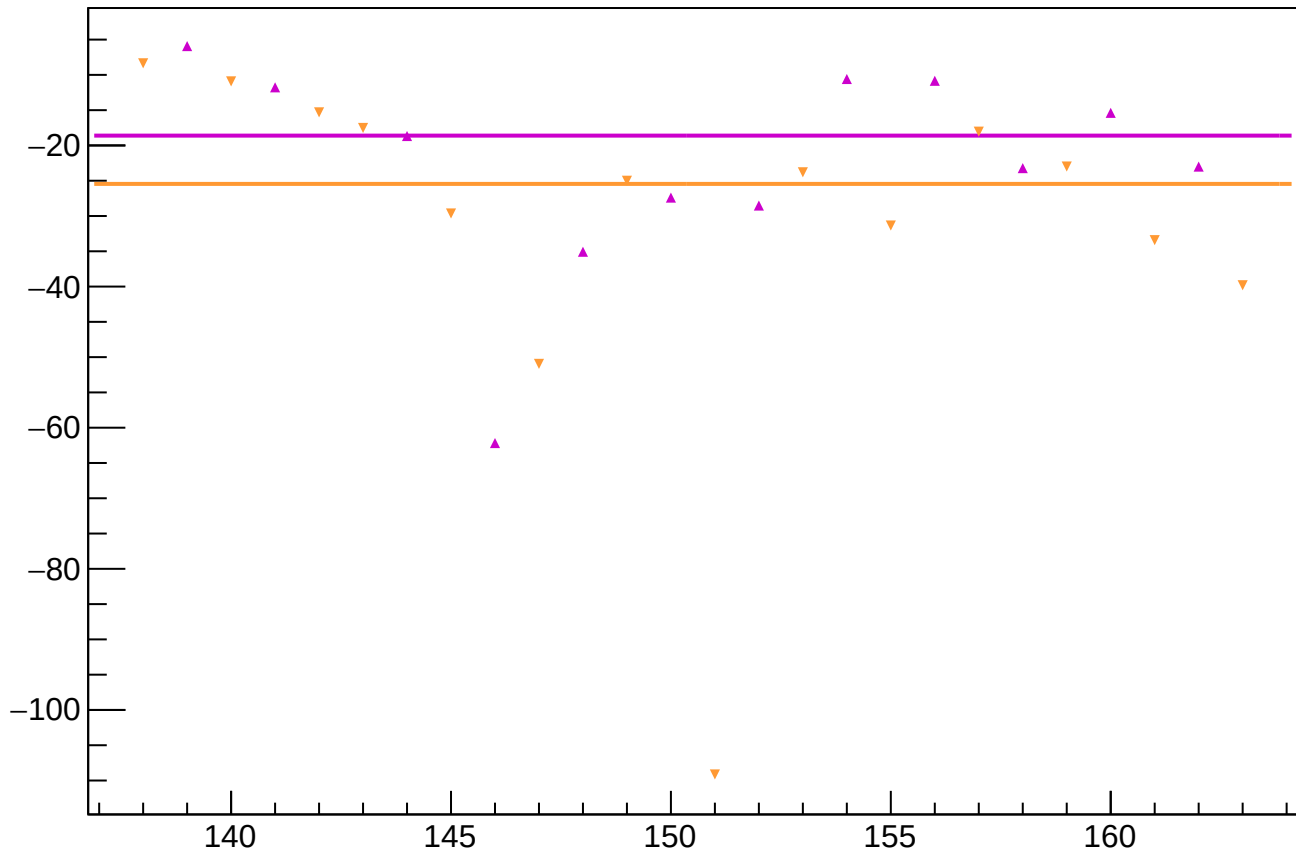
Left In: 0.068 $\pm$ 0.002  $\chi^2$ /NDF:2115.9/11

+ sign 0.150 $\pm$ 0.002  $\chi^2$ /NDF: 4483.9/30

All: 0.123 $\pm$ 0.001  $\chi^2$ /NDF: 9088.7/61

- sign 0.104 $\pm$ 0.002  $\chi^2$ /NDF: 4339.1/30

# reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug



Right In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -25.451 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 56330.1/13

Right Out: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

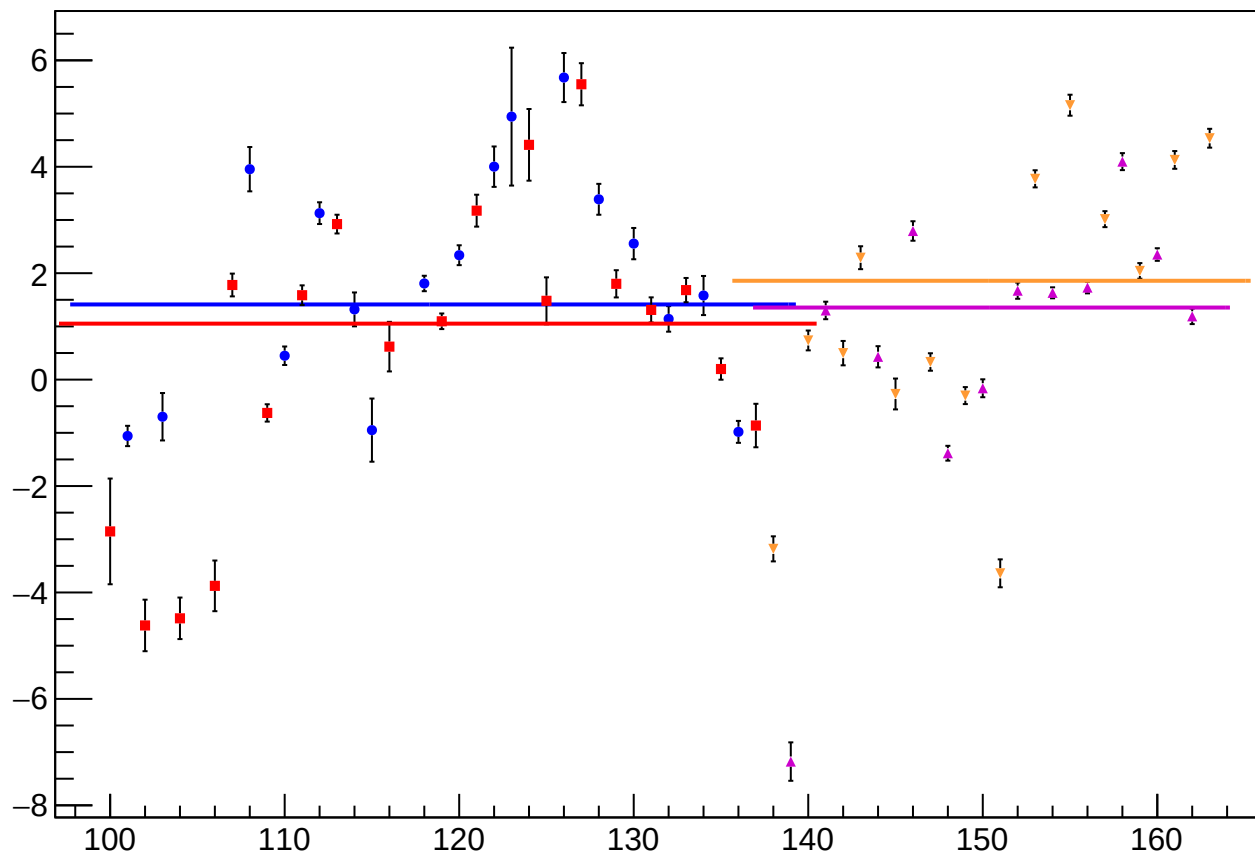
Left In: -18.607 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 37448.0/11

+ sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -21.552 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 99415.9/25

- sign 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug



Right In:  $1.413 \pm 0.061$   $\chi^2/\text{NDF}$ : 713.9/16

Left Out:  $1.858 \pm 0.049$   $\chi^2/\text{NDF}$ : 2191.4/13

Right Out:  $1.052 \pm 0.058$   $\chi^2/\text{NDF}$ : 963.3/18

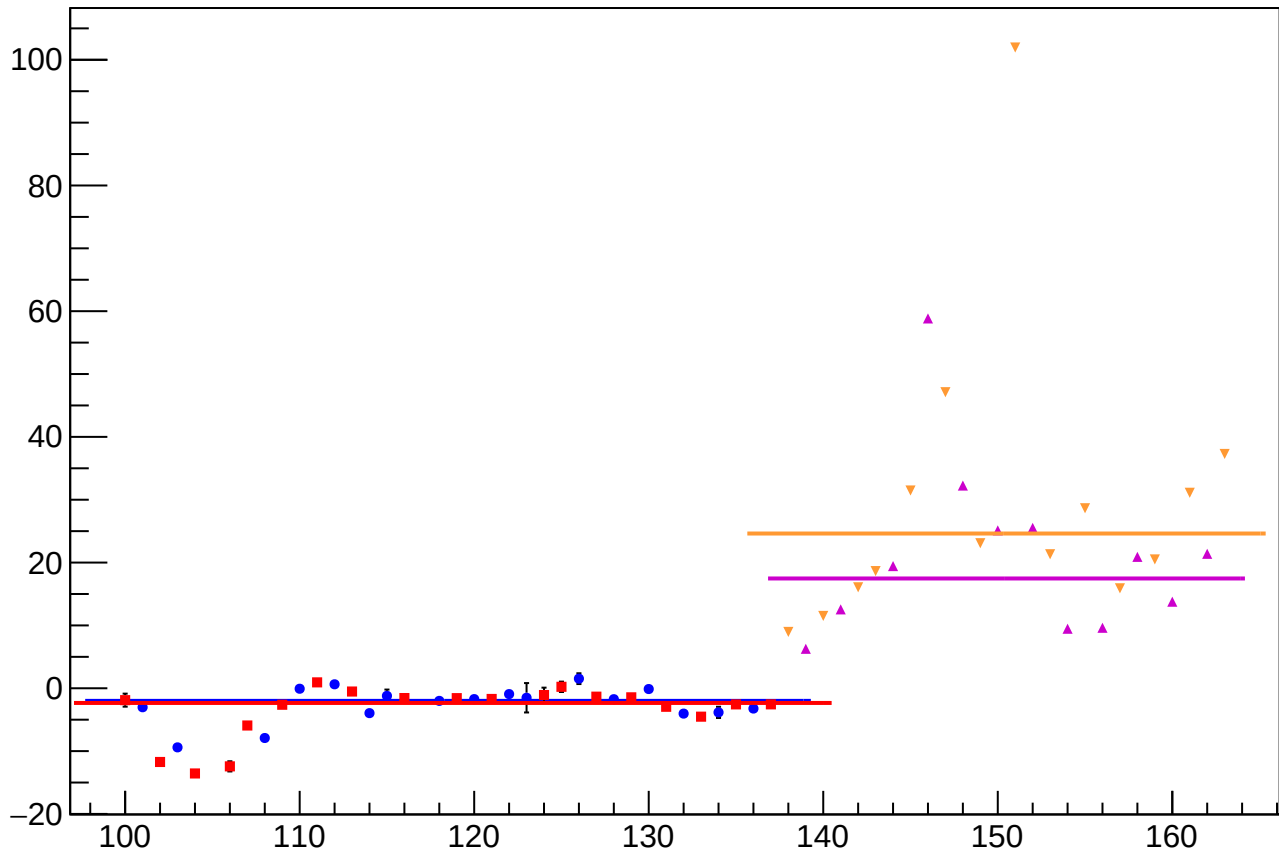
Left In:  $1.354 \pm 0.042$   $\chi^2/\text{NDF}$ : 1499.1/11

+ sign  $1.682 \pm 0.038$   $\chi^2/\text{NDF}$ : 2937.5/30

All:  $1.441 \pm 0.025$   $\chi^2/\text{NDF}$ : 5488.8/61

- sign  $1.250 \pm 0.034$   $\chi^2/\text{NDF}$ : 2480.3/30

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.006 \pm 0.111$   $\chi^2/\text{NDF}$ : 463.3/16

Left Out:  $24.622 \pm 0.067$   $\chi^2/\text{NDF}$ : 50435.5/13

Right Out:  $-2.336 \pm 0.099$   $\chi^2/\text{NDF}$ : 901.2/18

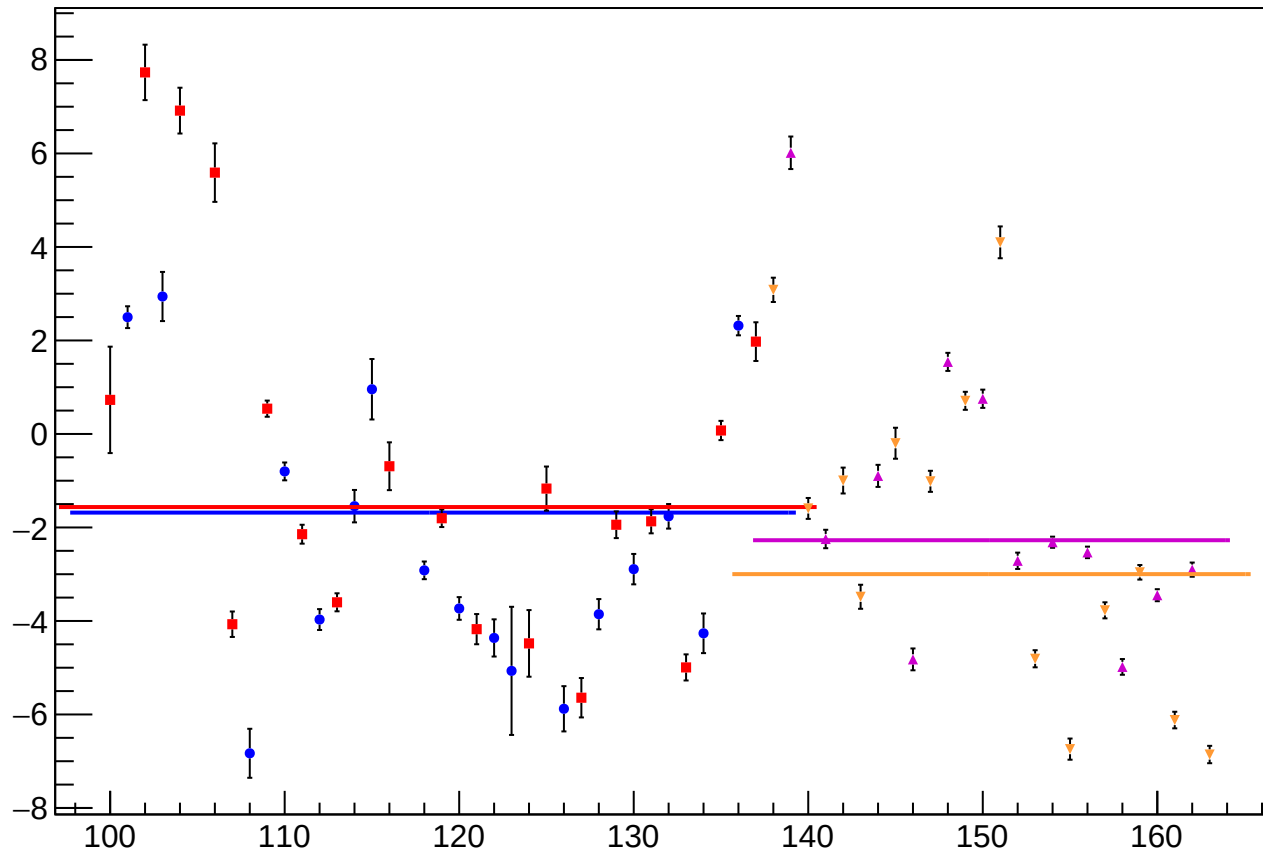
Left In:  $17.469 \pm 0.057$   $\chi^2/\text{NDF}$ : 35321.0/11

+ sign  $17.451 \pm 0.057$   $\chi^2/\text{NDF}$ : 93237.4/30

All:  $14.609 \pm 0.038$   $\chi^2/\text{NDF}$ : 163746.9/61

- sign  $12.488 \pm 0.050$   $\chi^2/\text{NDF}$ : 66231.1/30

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.682 \pm 0.070$   $\chi^2/\text{NDF}$ : 1347.8/16

Left Out:  $-2.998 \pm 0.057$   $\chi^2/\text{NDF}$ : 2729.1/13

Right Out:  $-1.563 \pm 0.066$   $\chi^2/\text{NDF}$ : 1504.7/18

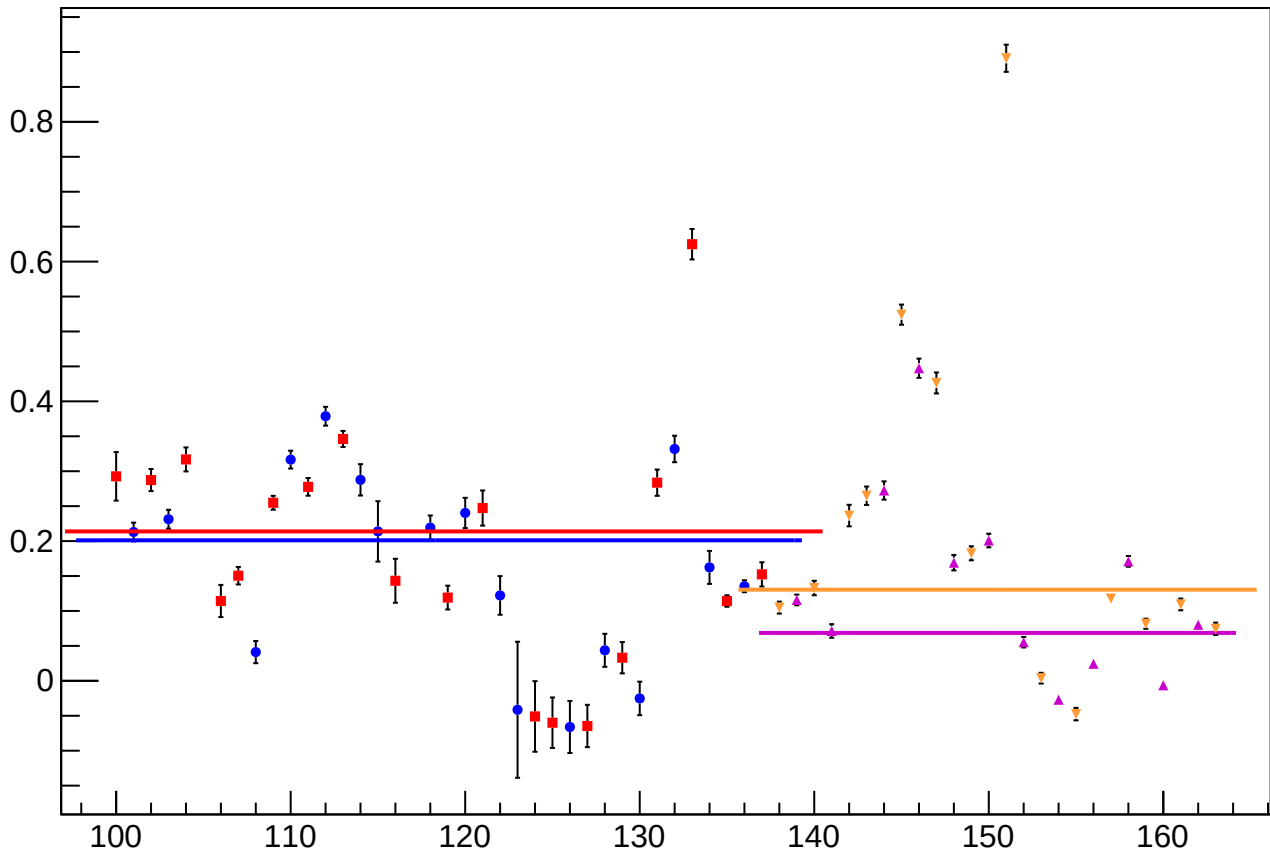
Left In:  $-2.273 \pm 0.048$   $\chi^2/\text{NDF}$ : 1721.2/11

+ sign  $-2.481 \pm 0.044$   $\chi^2/\text{NDF}$ : 4289.6/30

All:  $-2.224 \pm 0.029$   $\chi^2/\text{NDF}$ : 7651.8/61

- sign  $-2.025 \pm 0.039$   $\chi^2/\text{NDF}$ : 3301.9/30

# reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $0.201 \pm 0.004$   $\chi^2/\text{NDF}$ : 691.3/16

Left Out:  $0.130 \pm 0.003$   $\chi^2/\text{NDF}$ : 3609.9/13

Right Out:  $0.214 \pm 0.004$   $\chi^2/\text{NDF}$ : 1083.1/18

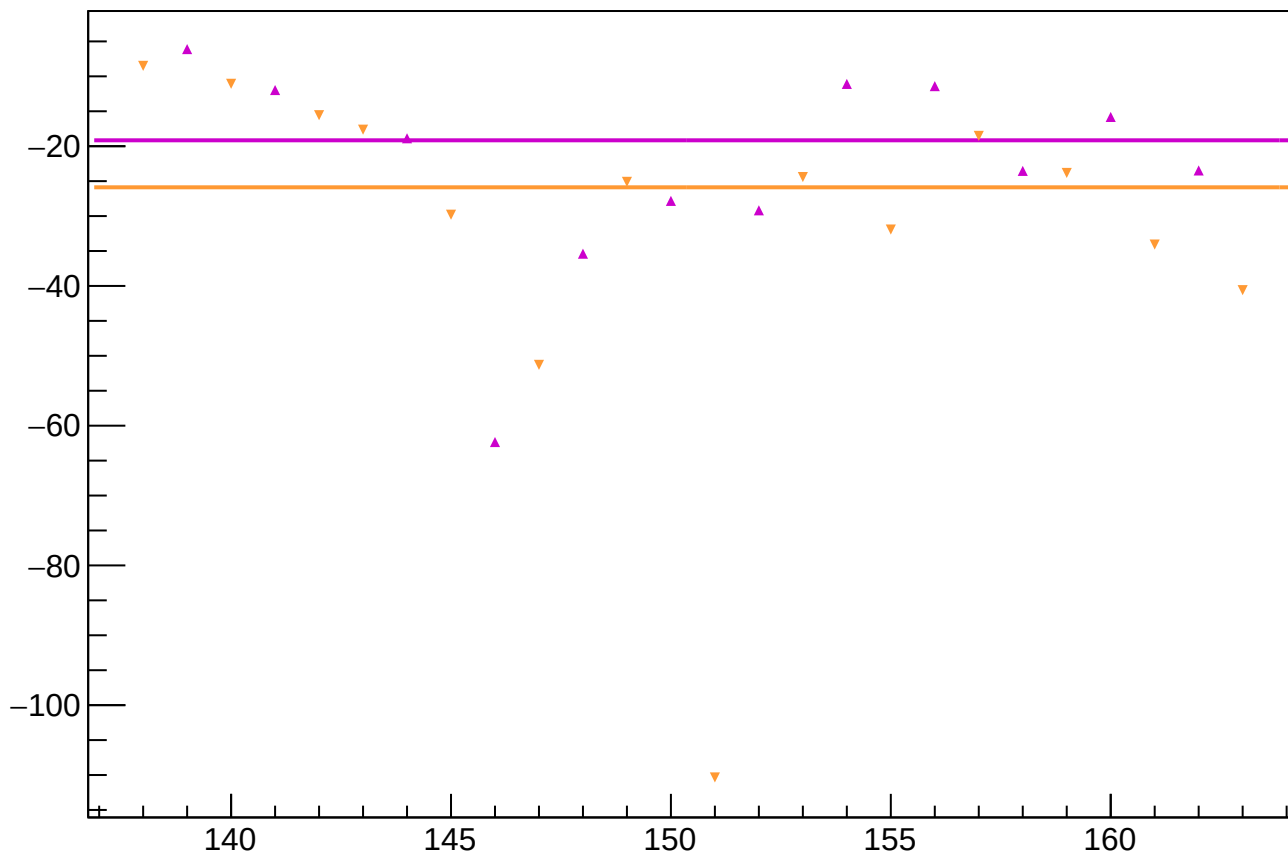
Left In:  $0.069 \pm 0.002$   $\chi^2/\text{NDF}$ : 2106.4/11

+ sign  $0.150 \pm 0.002$   $\chi^2/\text{NDF}$ : 4513.2/30

All:  $0.123 \pm 0.001$   $\chi^2/\text{NDF}$ : 9136.1/61

- sign  $0.104 \pm 0.002$   $\chi^2/\text{NDF}$ : 4363.6/30

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

Left Out: -25.883+/-0.070  $\chi^2/NDF$ :56258.8/13

Right Out: 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

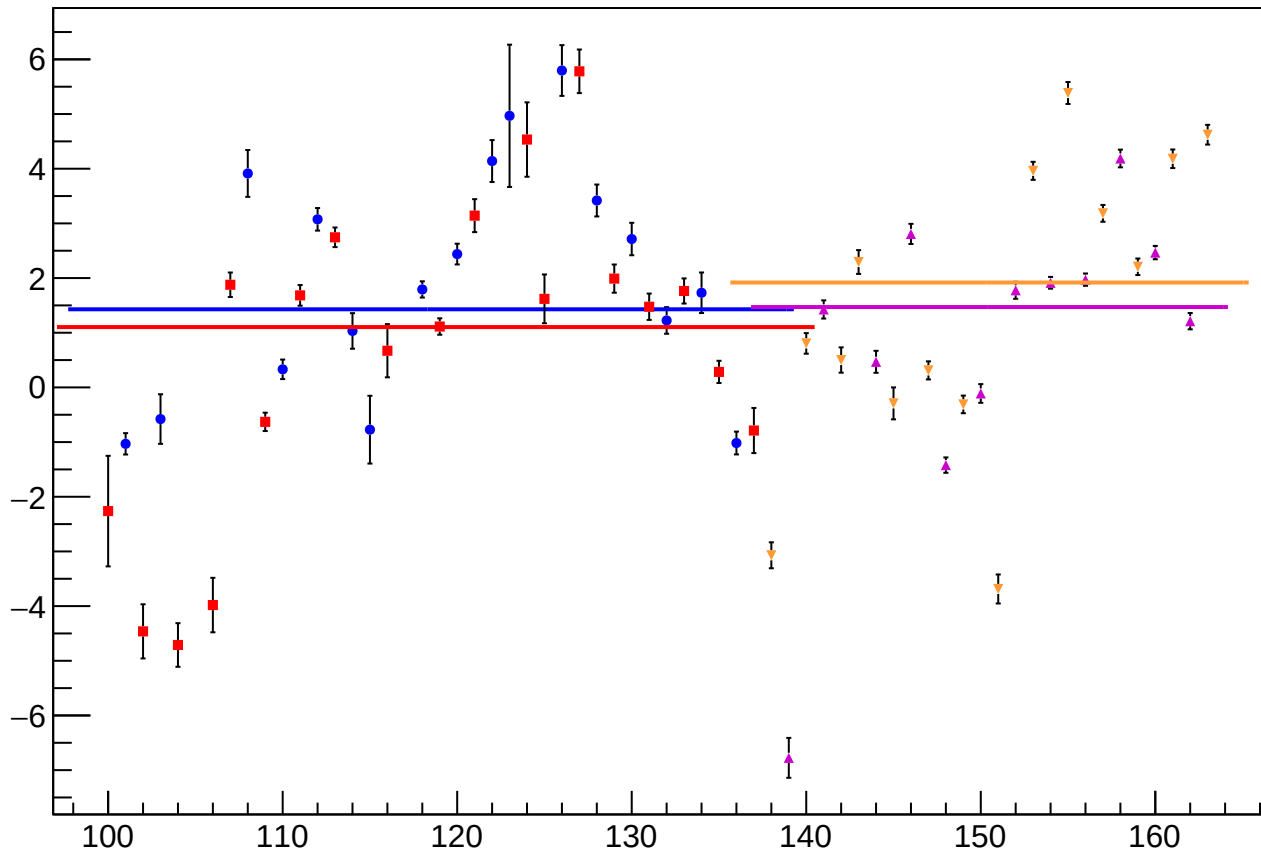
Left In: -19.155+/-0.061  $\chi^2/NDF$ :36359.7/11

+ sign 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

All: -22.076+/-0.046  $\chi^2/NDF$ : 97856.2/25

- sign 0.000+/-0.000  $\chi^2/NDF$ : 0.0/0

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug



Right In: 1.429 $\pm$ 0.062  $\chi^2/\text{NDF}$ : 711.4/16

Left Out: 1.919 $\pm$ 0.050  $\chi^2/\text{NDF}$ : 2230.6/13

Right Out: 1.104 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 936.5/18

Left In: 1.470 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 1487.4/11

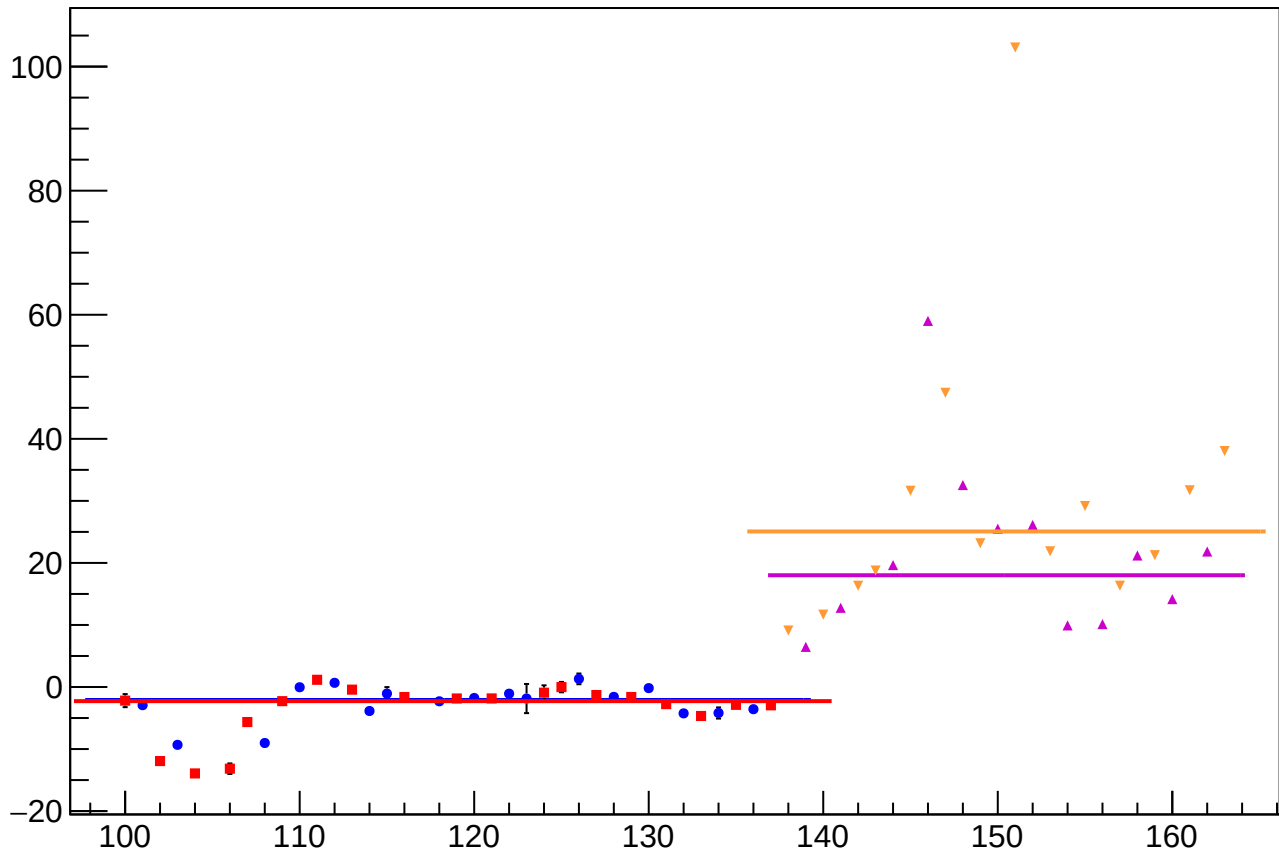
+ sign 1.726 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 2979.7/30

All: 1.514 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 5482.2/61

- sign 1.343 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 2448.9/30



reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.094 \pm 0.113$   $\chi^2/\text{NDF}: 486.5/16$

Left Out:  $25.071 \pm 0.068$   $\chi^2/\text{NDF}: 50215.3/13$

Right Out:  $-2.278 \pm 0.101$   $\chi^2/\text{NDF}: 918.6/18$

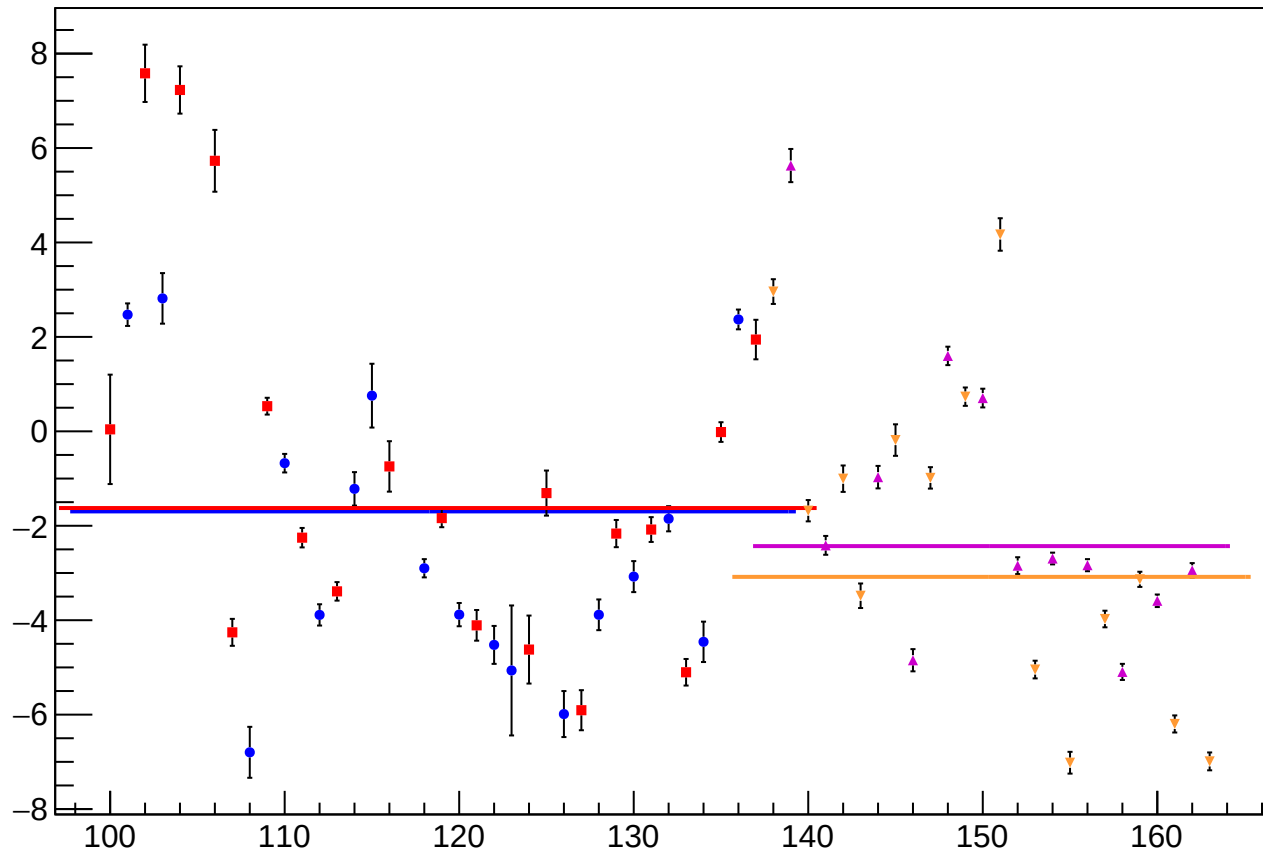
Left In:  $18.014 \pm 0.059$   $\chi^2/\text{NDF}: 34142.5/11$

+ sign  $17.761 \pm 0.058$   $\chi^2/\text{NDF}: 93248.0/30$

All:  $14.983 \pm 0.038$   $\chi^2/\text{NDF}: 162431.9/61$

- sign  $12.880 \pm 0.051$   $\chi^2/\text{NDF}: 65209.2/30$

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.696 \pm 0.072$   $\chi^2/\text{NDF}$ : 1333.3/16

Left Out:  $-3.082 \pm 0.058$   $\chi^2/\text{NDF}$ : 2767.3/13

Right Out:  $-1.624 \pm 0.067$   $\chi^2/\text{NDF}$ : 1467.3/18

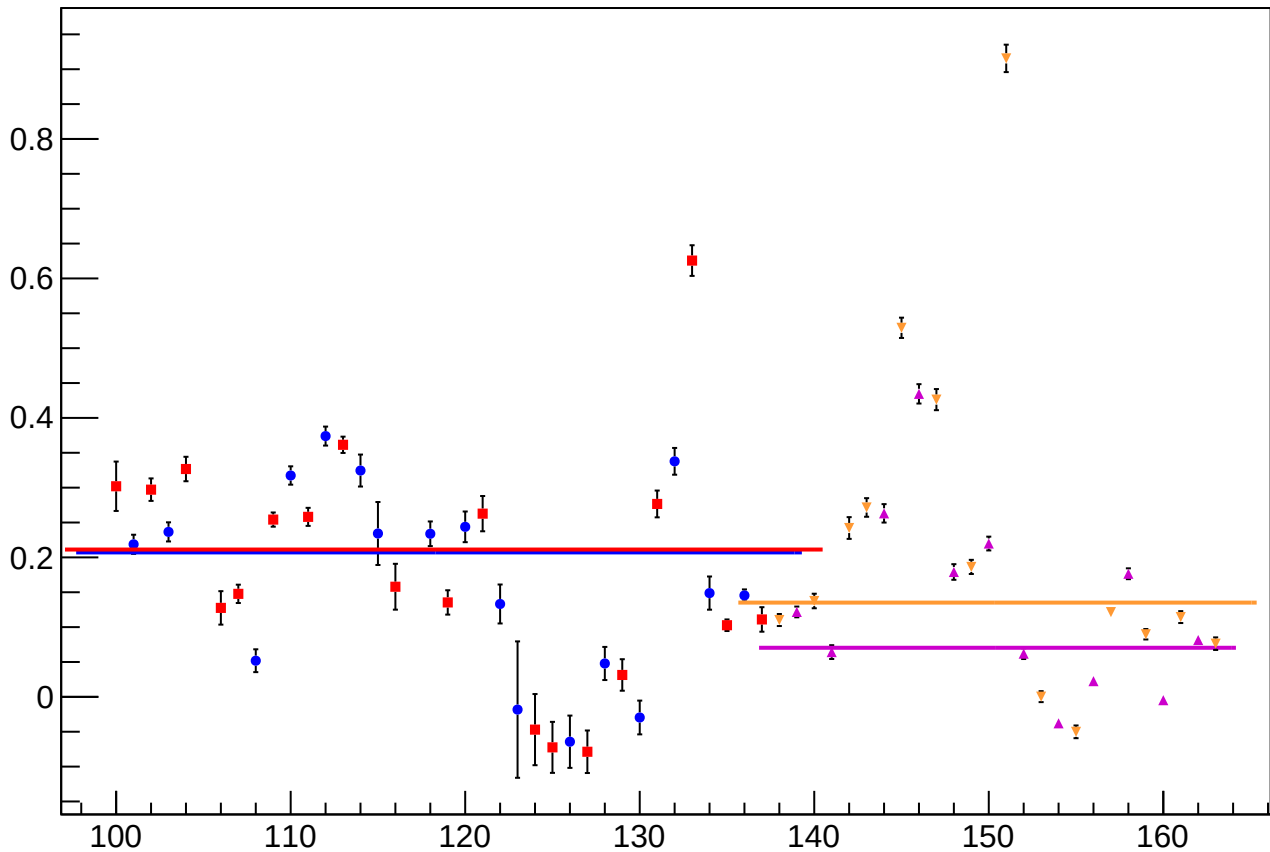
Left In:  $-2.431 \pm 0.049$   $\chi^2/\text{NDF}$ : 1695.7/11

+ sign  $-2.537 \pm 0.045$   $\chi^2/\text{NDF}$ : 4328.6/30

All:  $-2.319 \pm 0.030$   $\chi^2/\text{NDF}$ : 7628.0/61

- sign  $-2.147 \pm 0.040$   $\chi^2/\text{NDF}$ : 3256.9/30

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug



Right In:  $0.207 \pm 0.004$   $\chi^2/\text{NDF}$ : 656.3/16

Left Out:  $0.135 \pm 0.003$   $\chi^2/\text{NDF}$ : 3660.0/13

Right Out:  $0.211 \pm 0.004$   $\chi^2/\text{NDF}$ : 1145.7/18

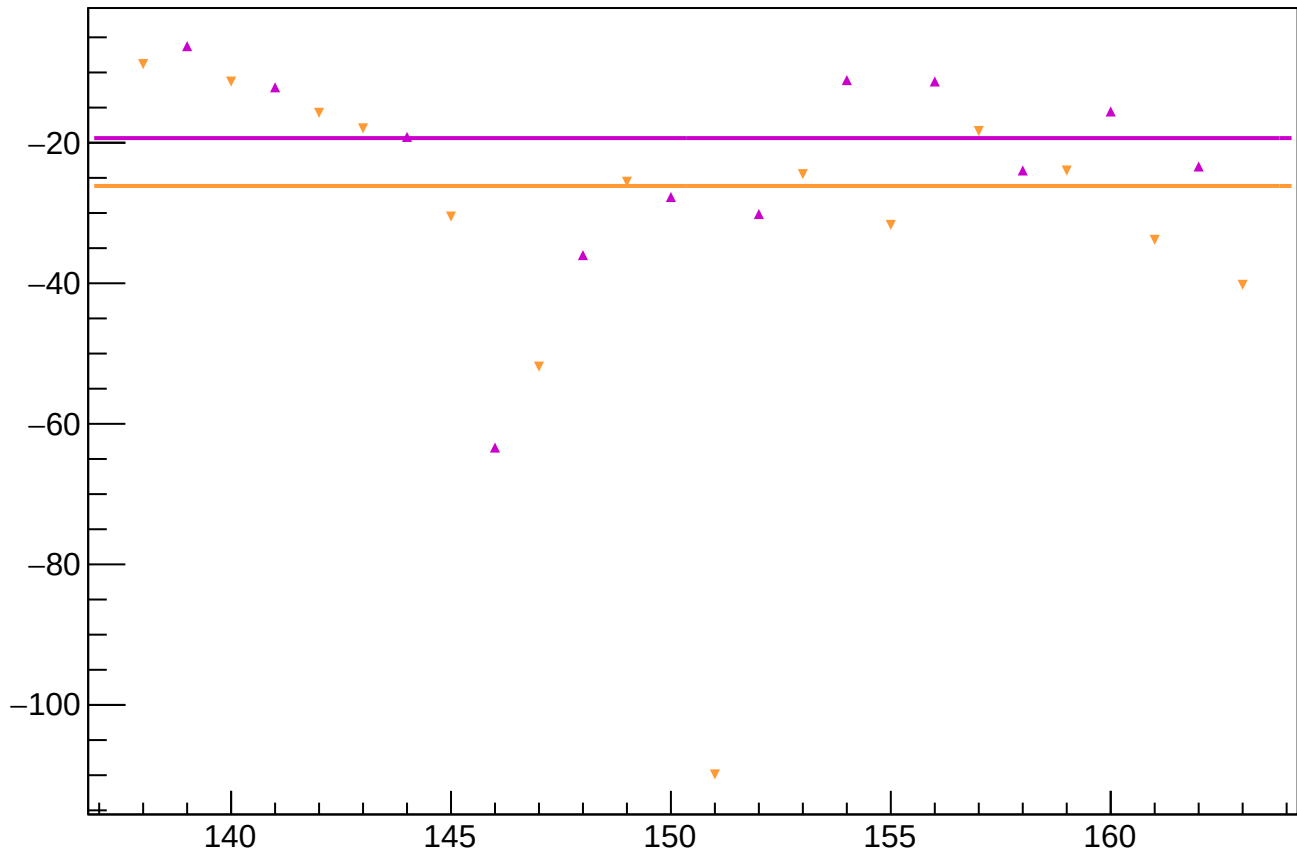
Left In:  $0.070 \pm 0.002$   $\chi^2/\text{NDF}$ : 2145.5/11

+ sign  $0.155 \pm 0.002$   $\chi^2/\text{NDF}$ : 4528.7/30

All:  $0.126 \pm 0.001$   $\chi^2/\text{NDF}$ : 9170.7/61

- sign  $0.105 \pm 0.002$   $\chi^2/\text{NDF}$ : 4347.7/30

# reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -26.150+/-0.071  $\chi^2/\text{NDF}$ : 54975.4/13

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

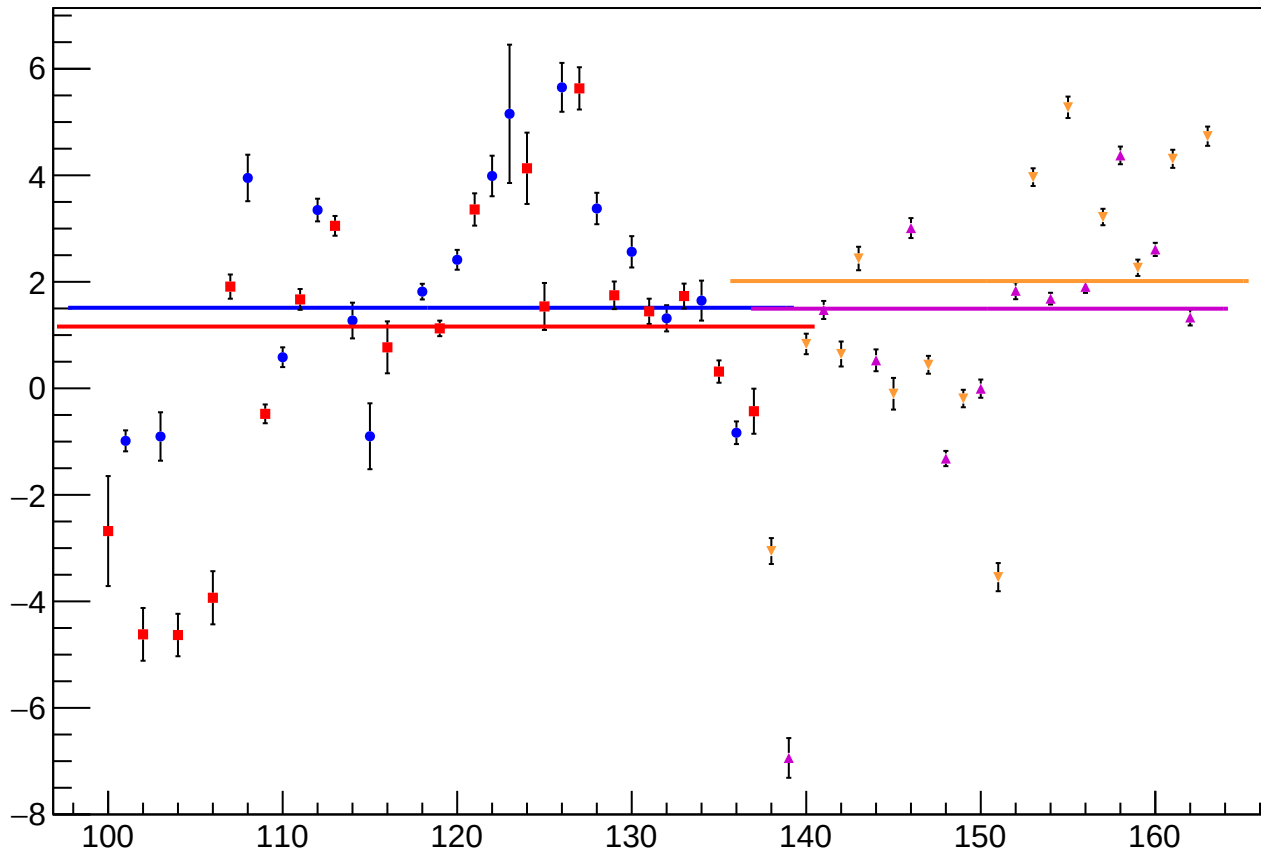
Left In: -19.339+/-0.062  $\chi^2/\text{NDF}$ : 36654.5/11

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -22.310+/-0.047  $\chi^2/\text{NDF}$ : 96858.0/25

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug



Right In: 1.513 $\pm$ 0.063  $\chi^2/\text{NDF}$ : 669.7/16

Left Out: 2.015 $\pm$ 0.051  $\chi^2/\text{NDF}$ : 2143.3/13

Right Out: 1.160 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 917.0/18

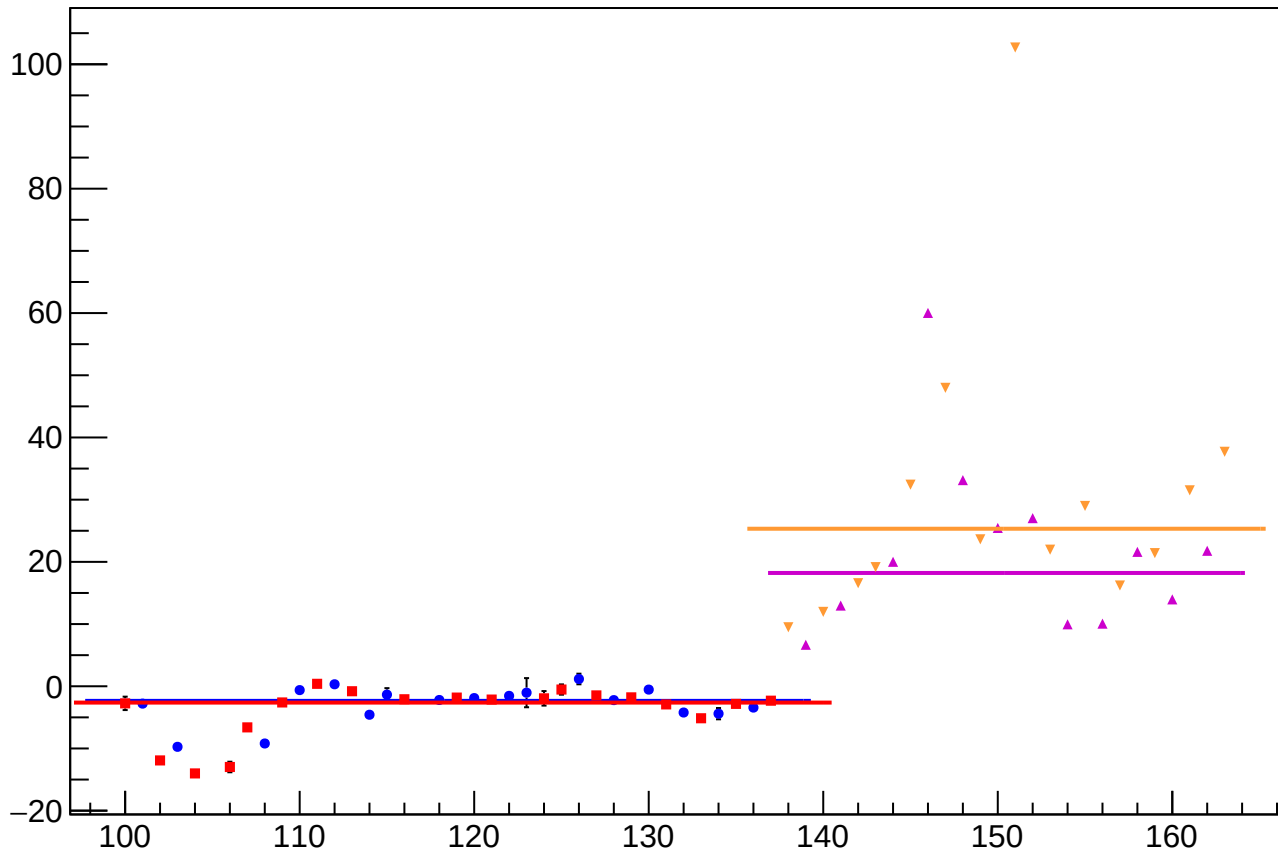
Left In: 1.496 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 1467.0/11

+ sign 1.817 $\pm$ 0.039  $\chi^2/\text{NDF}$ : 2851.8/30

All: 1.575 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 5324.7/61

- sign 1.379 $\pm$ 0.035  $\chi^2/\text{NDF}$ : 2404.4/30

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug



Right In:  $-2.350 \pm 0.114$   $\chi^2/\text{NDF}$ : 439.7/16

Left Out:  $25.327 \pm 0.069$   $\chi^2/\text{NDF}$ : 49216.8/13

Right Out:  $-2.624 \pm 0.103$   $\chi^2/\text{NDF}$ : 840.4/18

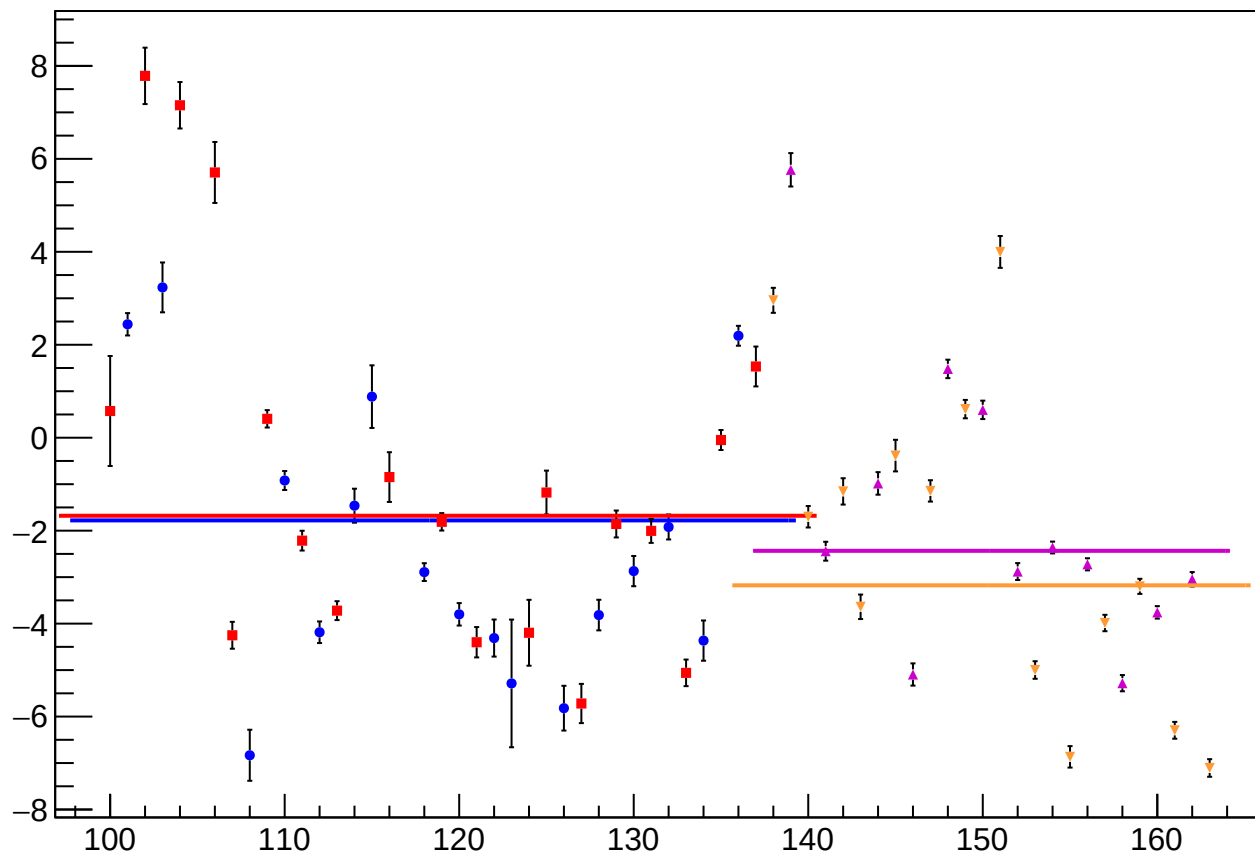
Left In:  $18.217 \pm 0.060$   $\chi^2/\text{NDF}$ : 34478.1/11

+ sign  $17.928 \pm 0.059$   $\chi^2/\text{NDF}$ : 92615.7/30

All:  $15.132 \pm 0.039$   $\chi^2/\text{NDF}$ : 162427.2/61

- sign  $12.993 \pm 0.052$   $\chi^2/\text{NDF}$ : 65860.1/30

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug



Right In:  $-1.779 \pm 0.072$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-3.176 \pm 0.058$   $\chi^2/\text{NDF}$ : 2661.1/13

Right Out:  $-1.679 \pm 0.068$   $\chi^2/\text{NDF}$ : 1429.6/18

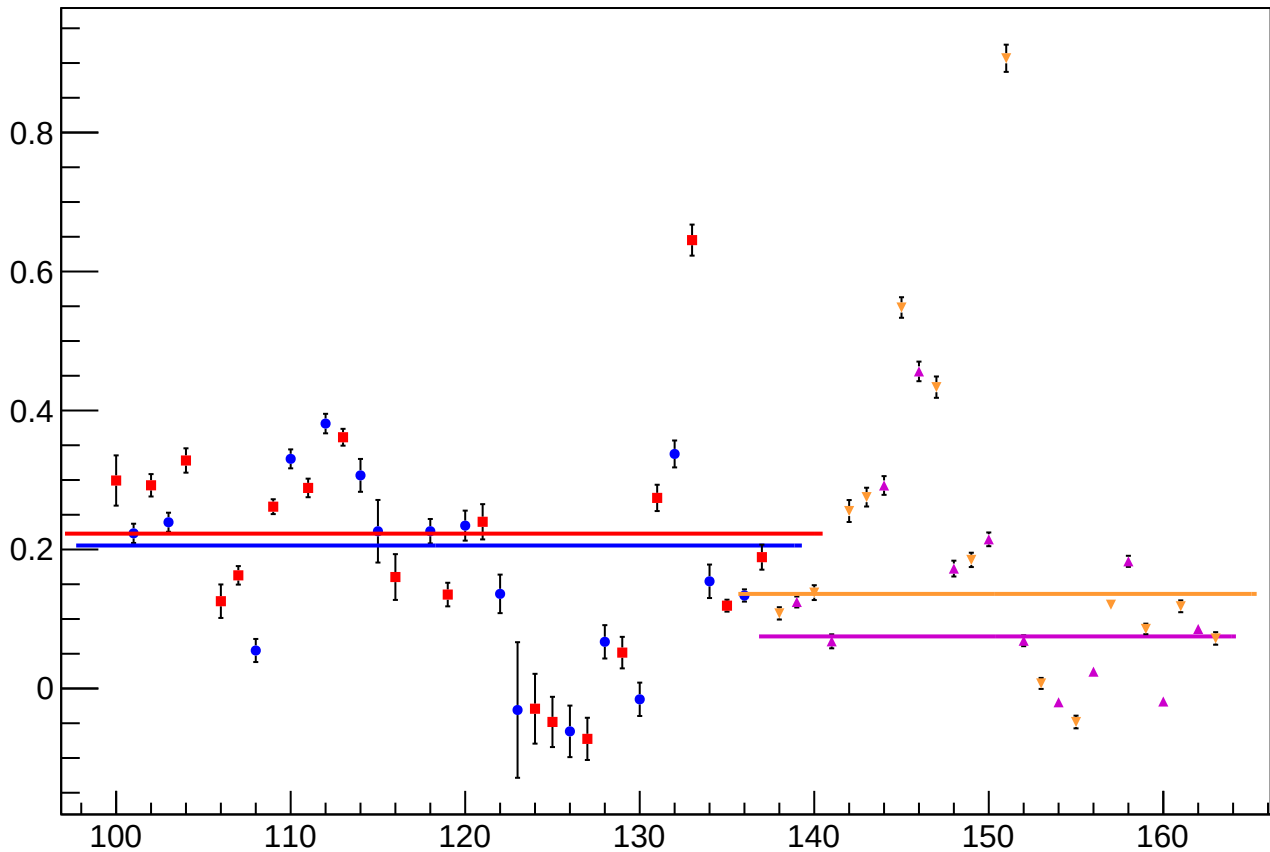
Left In:  $-2.434 \pm 0.050$   $\chi^2/\text{NDF}$ : 1692.9/11

+ sign  $-2.628 \pm 0.045$   $\chi^2/\text{NDF}$ : 4160.1/30

All:  $-2.371 \pm 0.030$   $\chi^2/\text{NDF}$ : 7419.8/61

- sign  $-2.168 \pm 0.040$   $\chi^2/\text{NDF}$ : 3202.2/30

# reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug



Right In:  $0.206 \pm 0.004$   $\chi^2/\text{NDF}$ : 651.8/16

Left Out:  $0.136 \pm 0.003$   $\chi^2/\text{NDF}$ : 3673.0/13

Right Out:  $0.223 \pm 0.004$   $\chi^2/\text{NDF}$ : 1042.2/18

Left In:  $0.075 \pm 0.002$   $\chi^2/\text{NDF}$ : 2143.7/11

+ sign  $0.155 \pm 0.002$   $\chi^2/\text{NDF}$ : 4518.8/30

All:  $0.130 \pm 0.001$   $\chi^2/\text{NDF}$ : 9047.9/61

- sign  $0.111 \pm 0.002$   $\chi^2/\text{NDF}$ : 4306.2/30