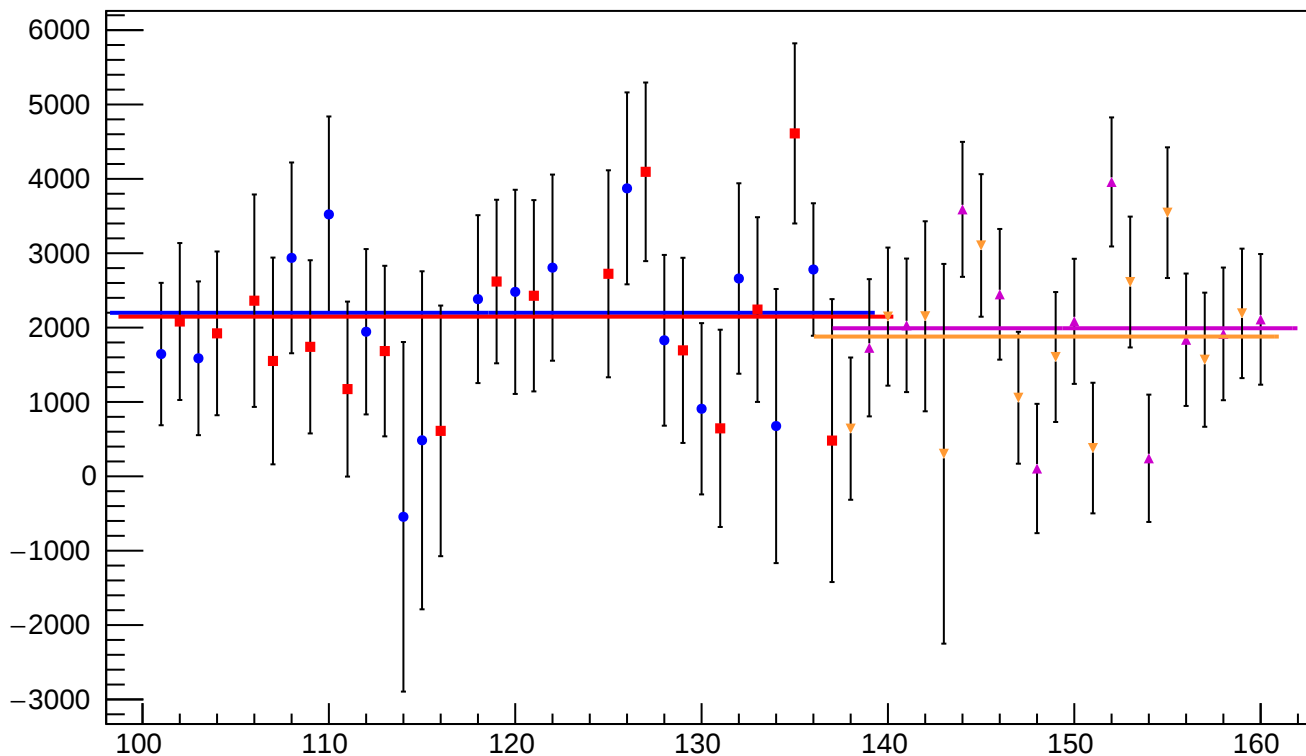


# dit\_asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2198.880+/-306.767

Left Out: 1879.379+/-276.061

Right Out: 2147.149+/-304.804

Left In: 1991.257+/-265.679

$\chi^2/\text{NDF}$ : 8.6/15

$\chi^2/\text{NDF}$ : 12.2/11

$\chi^2/\text{NDF}$ : 11.4/16

$\chi^2/\text{NDF}$ : 17.5/10

Left: 1937.461+/-191.429

Right: 2172.848+/-216.219

In: 2080.243+/-200.831

Out: 2000.047+/-204.614

All: 2040.893+/-143.328

$\chi^2/\text{NDF}$ : 29.9/22

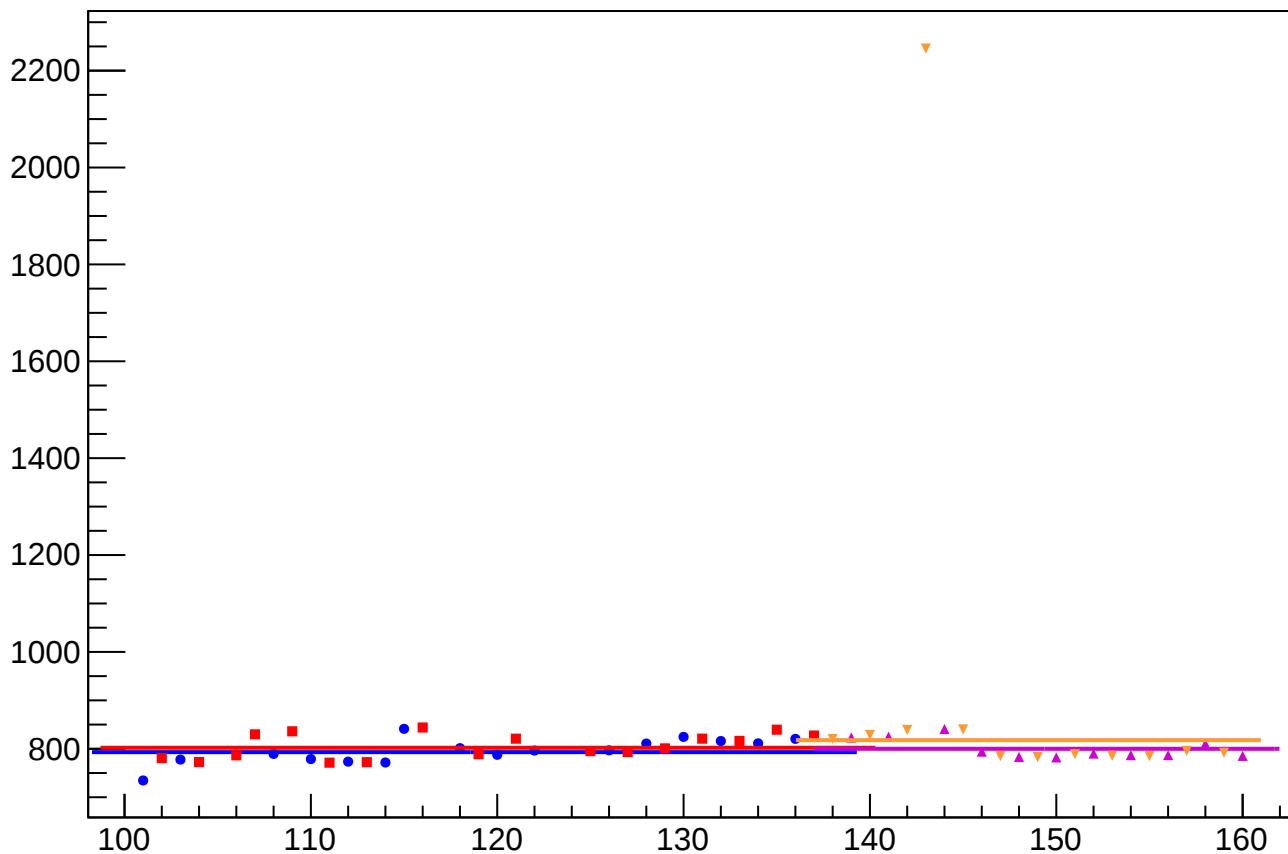
$\chi^2/\text{NDF}$ : 20.0/32

$\chi^2/\text{NDF}$ : 26.4/26

$\chi^2/\text{NDF}$ : 24.1/28

$\chi^2/\text{NDF}$ : 50.5/55

# dit\_asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In:  $793.091 \pm 0.217$   $\chi^2/\text{NDF}$ : 14703.0/15

Left Out:  $817.901 \pm 0.195$   $\chi^2/\text{NDF}$ : 643976.8/11

Right Out:  $802.148 \pm 0.216$   $\chi^2/\text{NDF}$ : 12723.5/16

Left In:  $799.991 \pm 0.188$   $\chi^2/\text{NDF}$ : 10586.8/10

Left:  $808.603 \pm 0.135$   $\chi^2/\text{NDF}$ : 658933.6/22

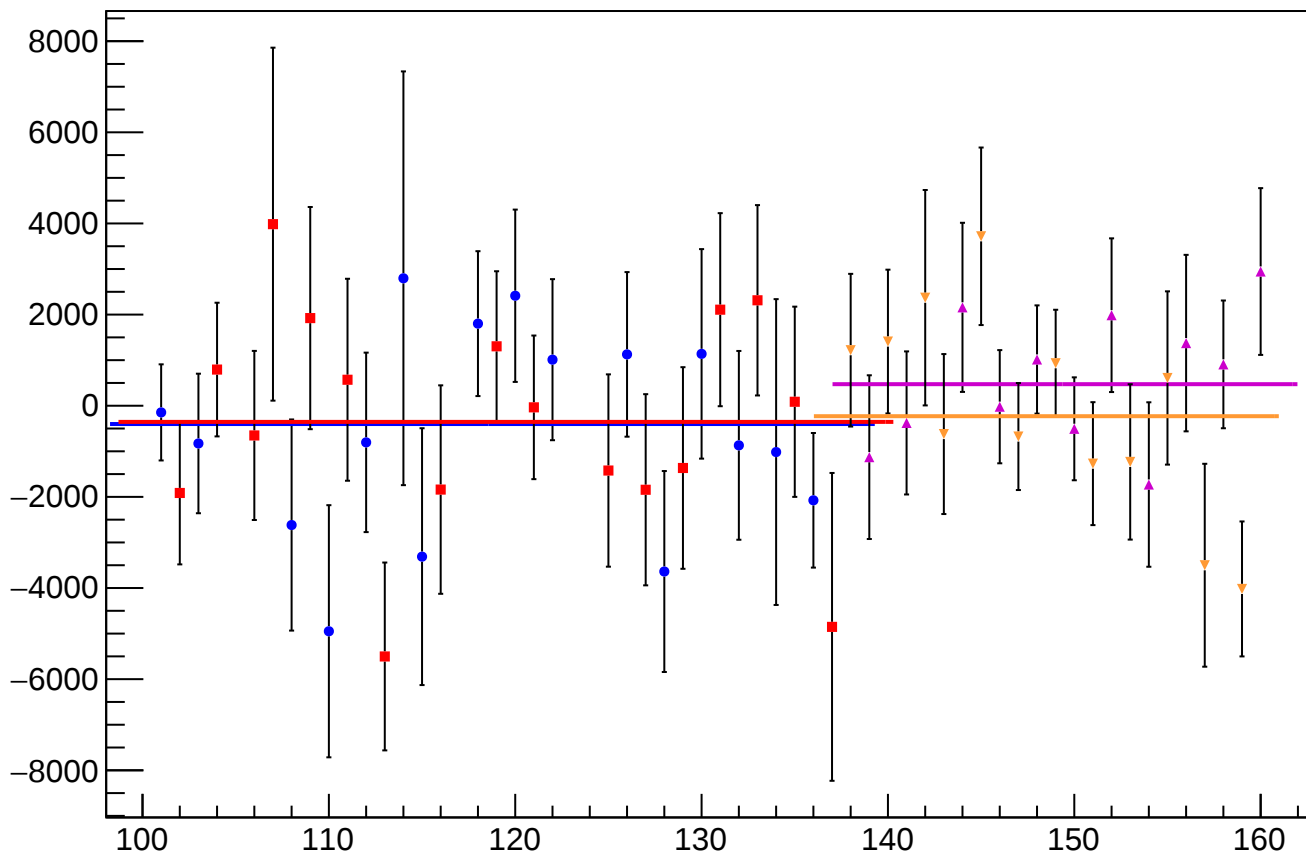
Right:  $797.648 \pm 0.153$   $\chi^2/\text{NDF}$ : 28303.8/32

In:  $797.034 \pm 0.142$   $\chi^2/\text{NDF}$ : 25868.1/26

Out:  $810.802 \pm 0.145$   $\chi^2/\text{NDF}$ : 659635.1/28

All:  $803.790 \pm 0.101$   $\chi^2/\text{NDF}$ : 690115.3/55

asym\_us\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -401.464 $\pm$ 468.669  $\chi^2/\text{NDF}$ : 14.8/15

Left Out: -229.702 $\pm$ 456.167  $\chi^2/\text{NDF}$ : 18.2/11

Right Out: -354.462 $\pm$ 486.525  $\chi^2/\text{NDF}$ : 17.4/16

Left In: 473.068 $\pm$ 452.622  $\chi^2/\text{NDF}$ : 7.5/10

Left: 124.424 $\pm$ 321.298  $\chi^2/\text{NDF}$ : 26.8/22

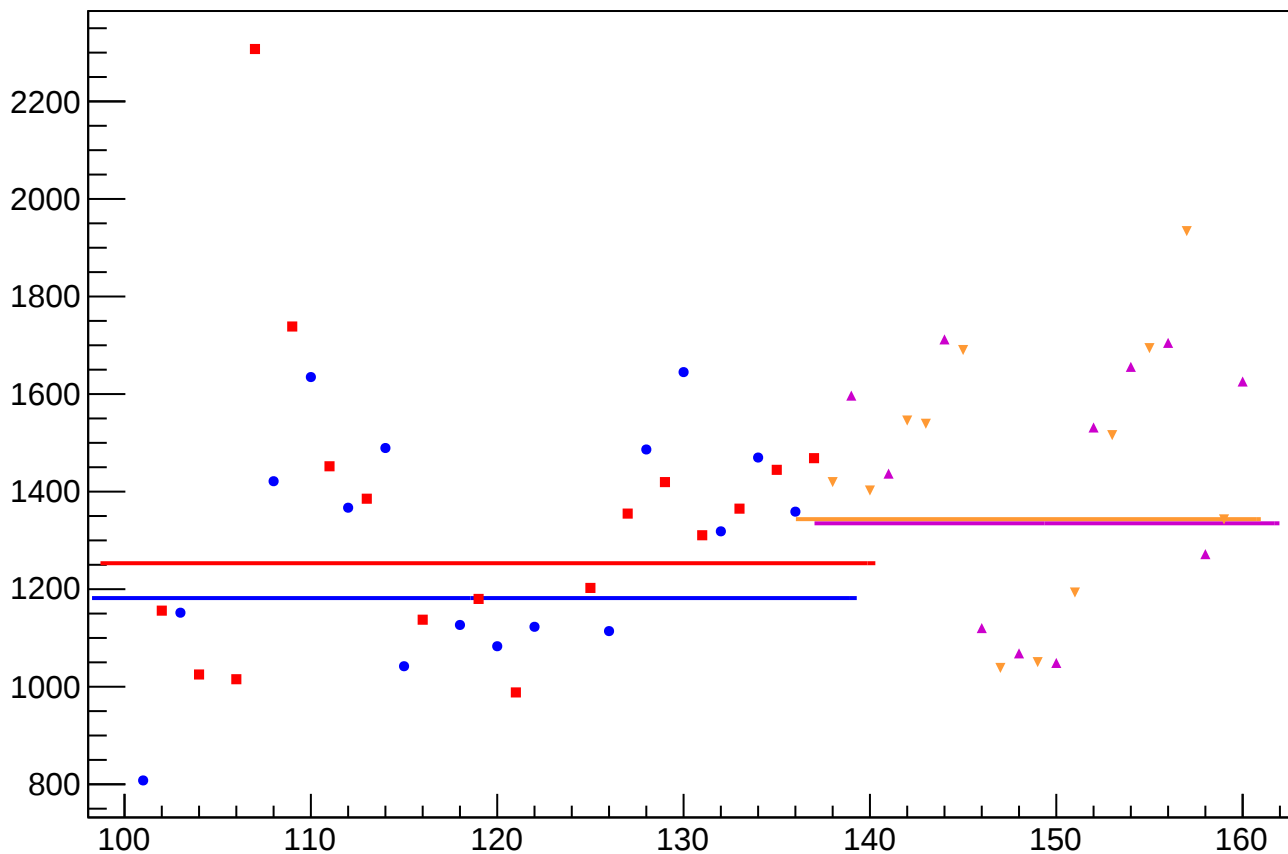
Right: -378.842 $\pm$ 337.535  $\chi^2/\text{NDF}$ : 32.2/32

In: 51.030 $\pm$ 325.577  $\chi^2/\text{NDF}$ : 24.1/26

Out: -288.069 $\pm$ 332.774  $\chi^2/\text{NDF}$ : 35.6/28

All: -114.813 $\pm$ 232.721  $\chi^2/\text{NDF}$ : 60.2/55

asym\_us\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1181.767+/-0.331  $\chi^2/\text{NDF}$ : 543493.3/15

Left Out: 1343.572+/-0.323  $\chi^2/\text{NDF}$ : 623498.9/11

Right Out: 1253.221+/-0.344  $\chi^2/\text{NDF}$ : 455640.3/16

Left In: 1335.044+/-0.320  $\chi^2/\text{NDF}$ : 640510.8/10

Left: 1339.275+/-0.227  $\chi^2/\text{NDF}$ : 1264361.9/22

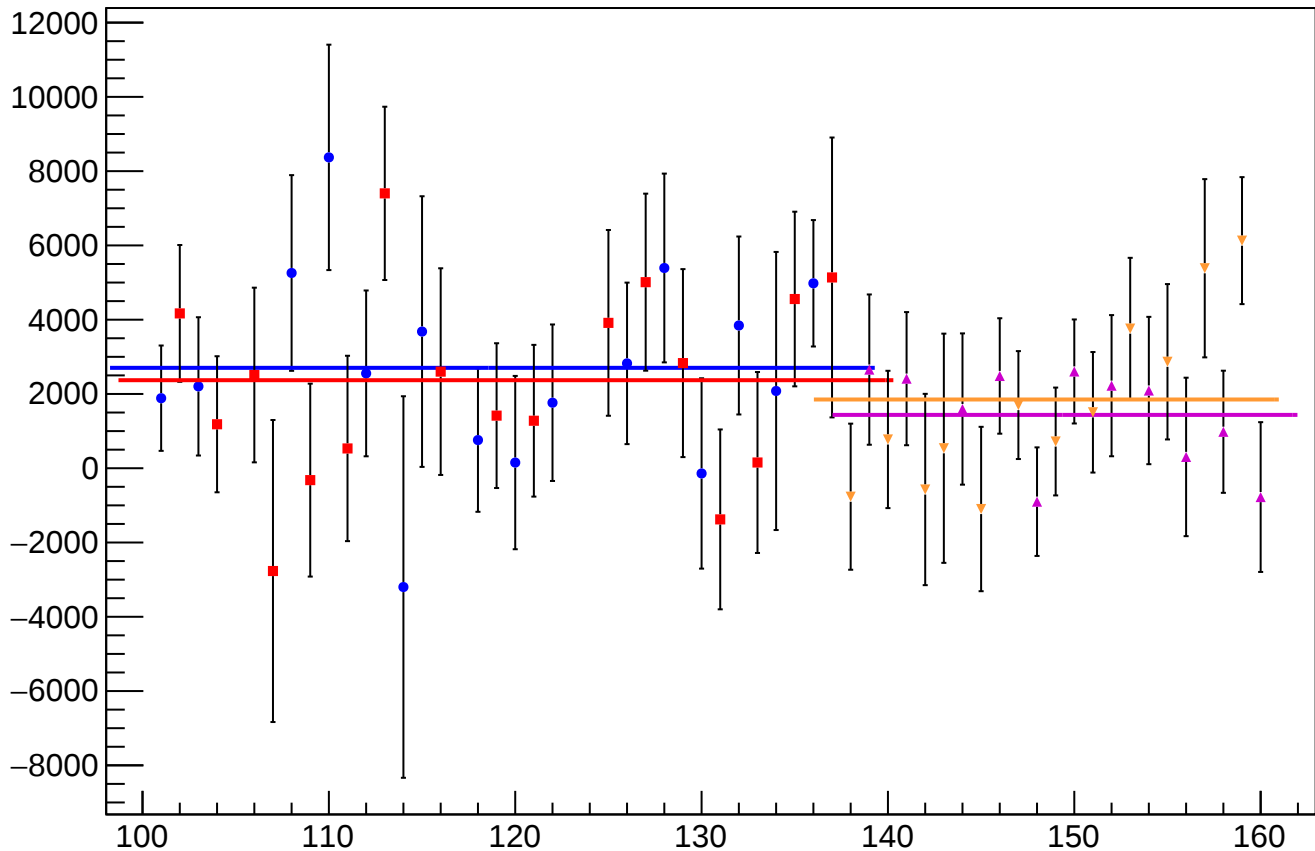
Right: 1216.159+/-0.239  $\chi^2/\text{NDF}$ : 1021509.6/32

In: 1261.074+/-0.230  $\chi^2/\text{NDF}$ : 1294688.7/26

Out: 1301.303+/-0.235  $\chi^2/\text{NDF}$ : 1115845.1/28

All: 1280.749+/-0.165  $\chi^2/\text{NDF}$ : 2425467.7/55

# asym\_us\_avg\_mean vs Slug, Sign Corrected



Right In: 2703.689+/-564.506  $\chi^2/\text{NDF}$ : 13.0/15

Left Out: 1851.121+/-545.690  $\chi^2/\text{NDF}$ : 15.3/11

Right Out: 2370.617+/-573.481  $\chi^2/\text{NDF}$ : 16.0/16

Left In: 1436.356+/-530.396  $\chi^2/\text{NDF}$ : 6.2/10

Left: 1637.844+/-380.339  $\chi^2/\text{NDF}$ : 21.8/22

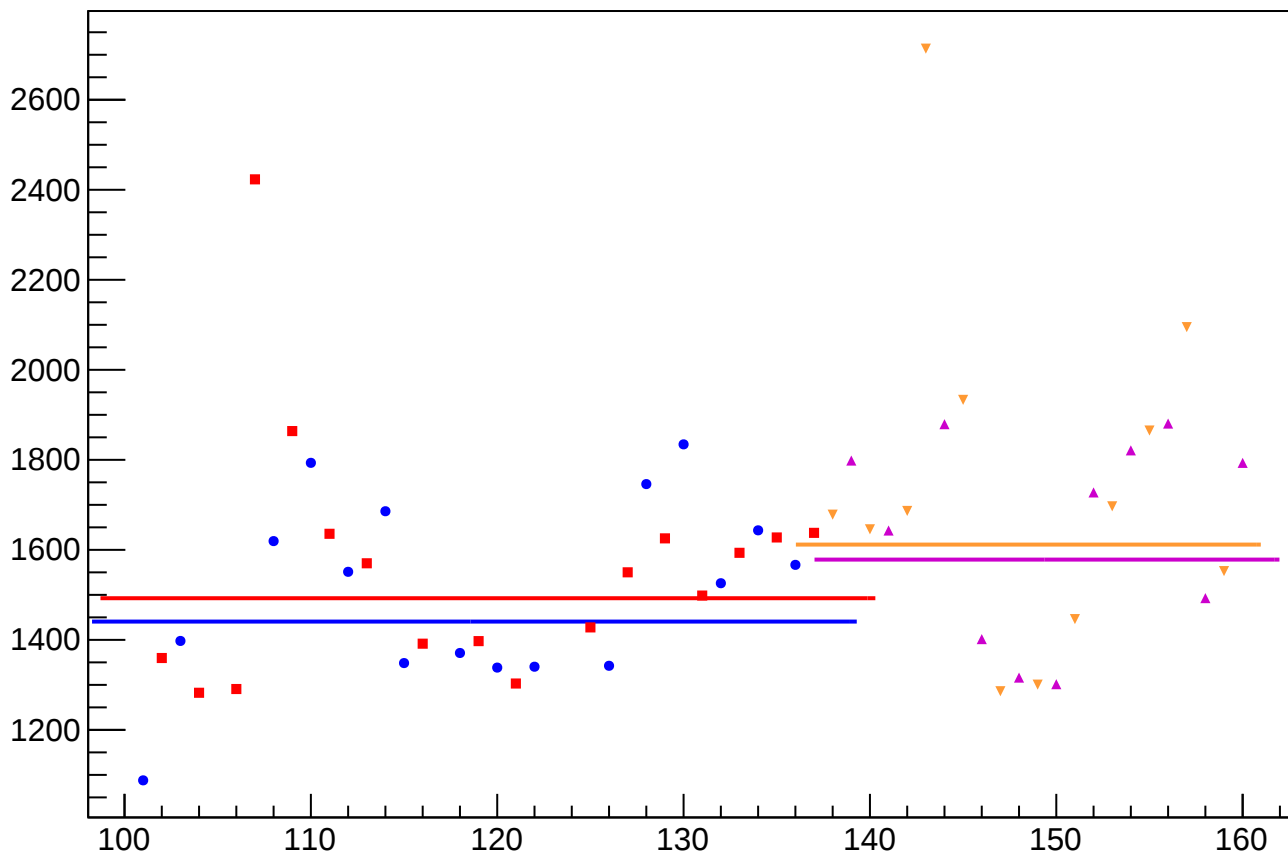
Right: 2539.780+/-402.301  $\chi^2/\text{NDF}$ : 29.2/32

In: 2030.579+/-386.543  $\chi^2/\text{NDF}$ : 21.9/26

Out: 2097.977+/-395.321  $\chi^2/\text{NDF}$ : 31.8/28

All: 2063.522+/-276.378  $\chi^2/\text{NDF}$ : 53.7/55

# asym\_us\_avg\_rms vs Slug, Sign Corrected



Right In: 1440.653+/-0.399  $\chi^2/\text{NDF}$ : 282262.6/15

Left Out: 1611.709+/-0.386  $\chi^2/\text{NDF}$ : 631787.5/11

Right Out: 1492.529+/-0.406  $\chi^2/\text{NDF}$ : 251506.2/16

Left In: 1578.353+/-0.375  $\chi^2/\text{NDF}$ : 348735.3/10

Left: 1594.557+/-0.269  $\chi^2/\text{NDF}$ : 984365.3/22

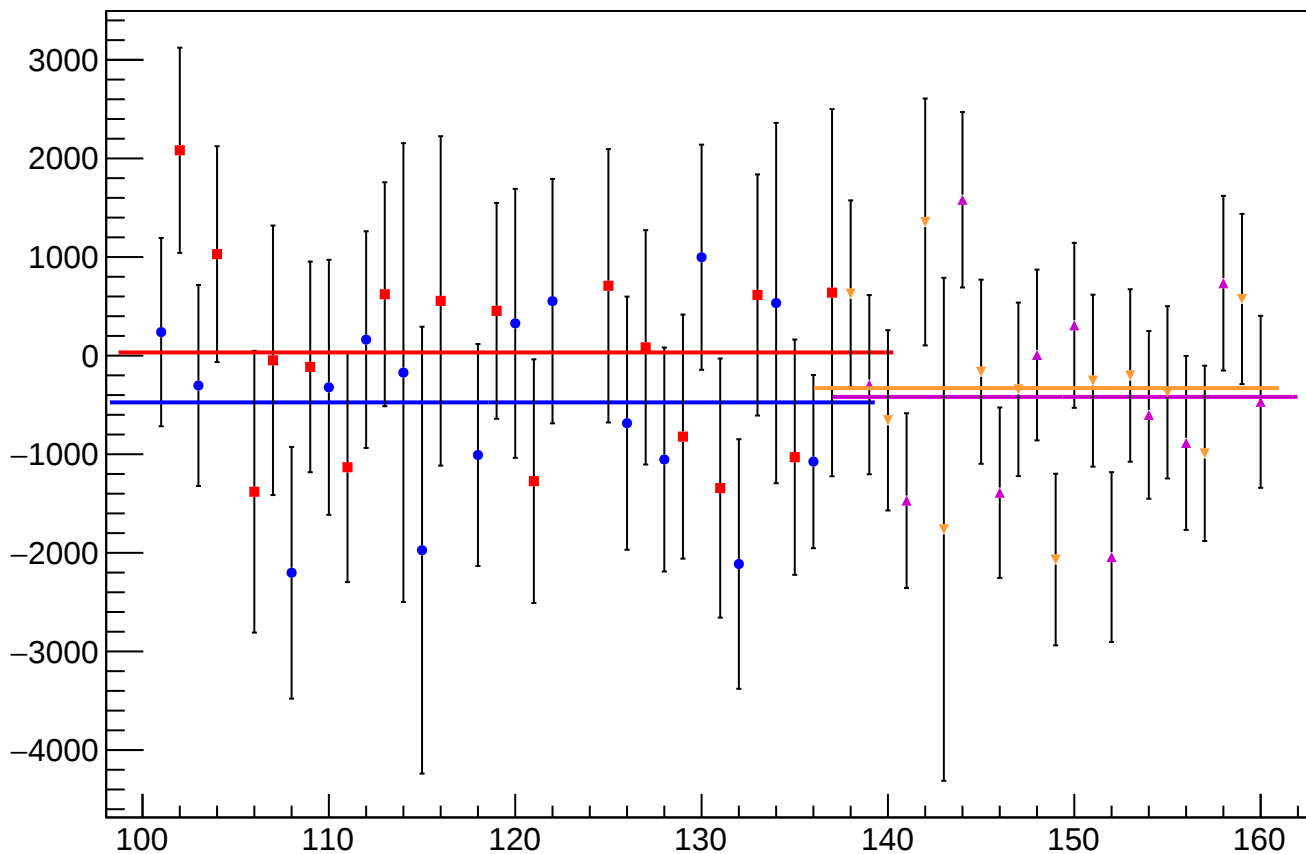
Right: 1466.182+/-0.284  $\chi^2/\text{NDF}$ : 542080.9/32

In: 1513.788+/-0.273  $\chi^2/\text{NDF}$ : 694203.9/26

Out: 1555.077+/-0.280  $\chi^2/\text{NDF}$ : 928625.1/28

All: 1533.969+/-0.195  $\chi^2/\text{NDF}$ : 1633982.1/55

# dit\_asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: -474.136+/-303.914  $\chi^2/\text{NDF}$ : 8.9/15

Left Out: -329.121+/-273.134  $\chi^2/\text{NDF}$ : 9.0/11

Right Out: 32.454+/-299.611  $\chi^2/\text{NDF}$ : 11.3/16

Left In: -418.313+/-263.028  $\chi^2/\text{NDF}$ : 14.3/10

Left: -375.398+/-189.461  $\chi^2/\text{NDF}$ : 23.4/22

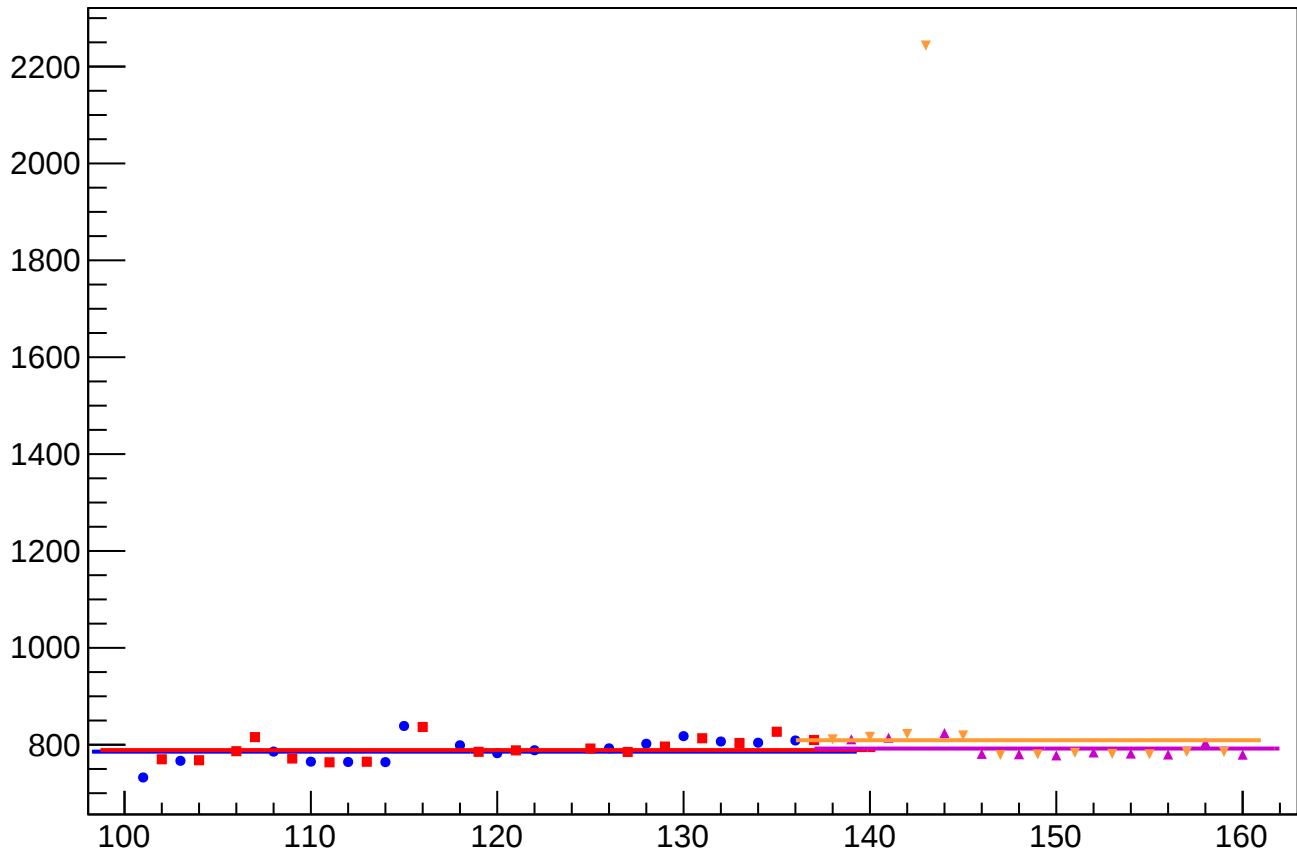
Right: -217.229+/-213.362  $\chi^2/\text{NDF}$ : 21.6/32

In: -442.219+/-198.885  $\chi^2/\text{NDF}$ : 23.2/26

Out: -165.013+/-201.848  $\chi^2/\text{NDF}$ : 21.1/28

All: -305.665+/-141.669  $\chi^2/\text{NDF}$ : 45.2/55

# dit\_asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In: 785.746 $\pm$ 0.215  $\chi^2$ /NDF: 13921.5/15

Left Out: 809.300 $\pm$ 0.193  $\chi^2$ /NDF: 646635.2/11

Right Out: 788.940 $\pm$ 0.212  $\chi^2$ /NDF: 9525.0/16

Left In: 792.134 $\pm$ 0.186  $\chi^2$ /NDF: 7661.4/10

Left: 800.394 $\pm$ 0.134  $\chi^2$ /NDF: 658395.2/22

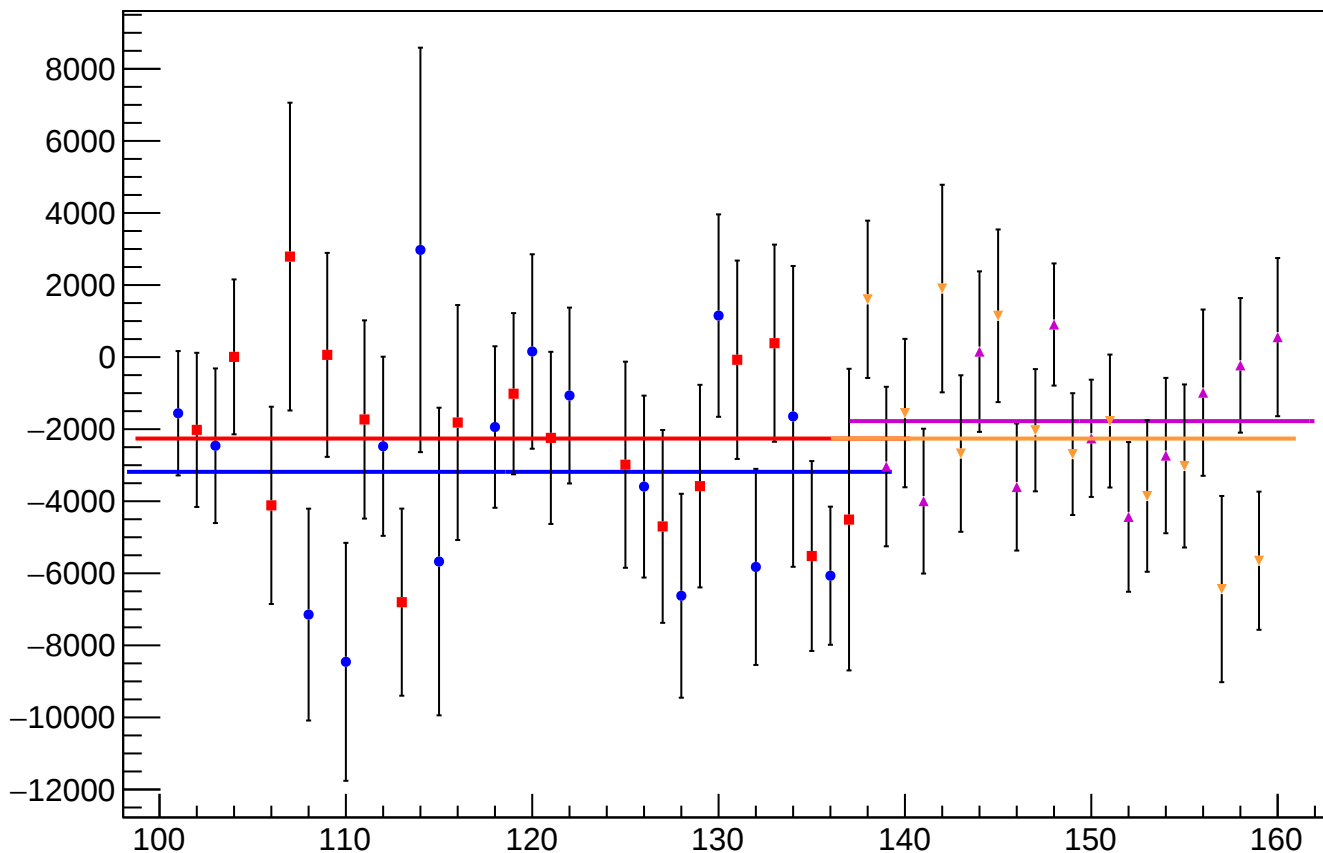
Right: 787.366 $\pm$ 0.151  $\chi^2$ /NDF: 23558.6/32

In: 789.398 $\pm$ 0.141  $\chi^2$ /NDF: 22088.2/26

Out: 800.059 $\pm$ 0.143  $\chi^2$ /NDF: 661203.9/28

All: 794.650 $\pm$ 0.100  $\chi^2$ /NDF: 686123.0/55

asym\_us\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -3184.522 $\pm$ 647.361  $\chi^2/\text{NDF}$ : 16.8/15

Left Out: -2260.996 $\pm$ 598.980  $\chi^2/\text{NDF}$ : 14.0/11

Right Out: -2260.241 $\pm$ 651.957  $\chi^2/\text{NDF}$ : 11.6/16

Left In: -1776.458 $\pm$ 594.516  $\chi^2/\text{NDF}$ : 9.7/10

Left: -2016.915 $\pm$ 421.956  $\chi^2/\text{NDF}$ : 24.0/22

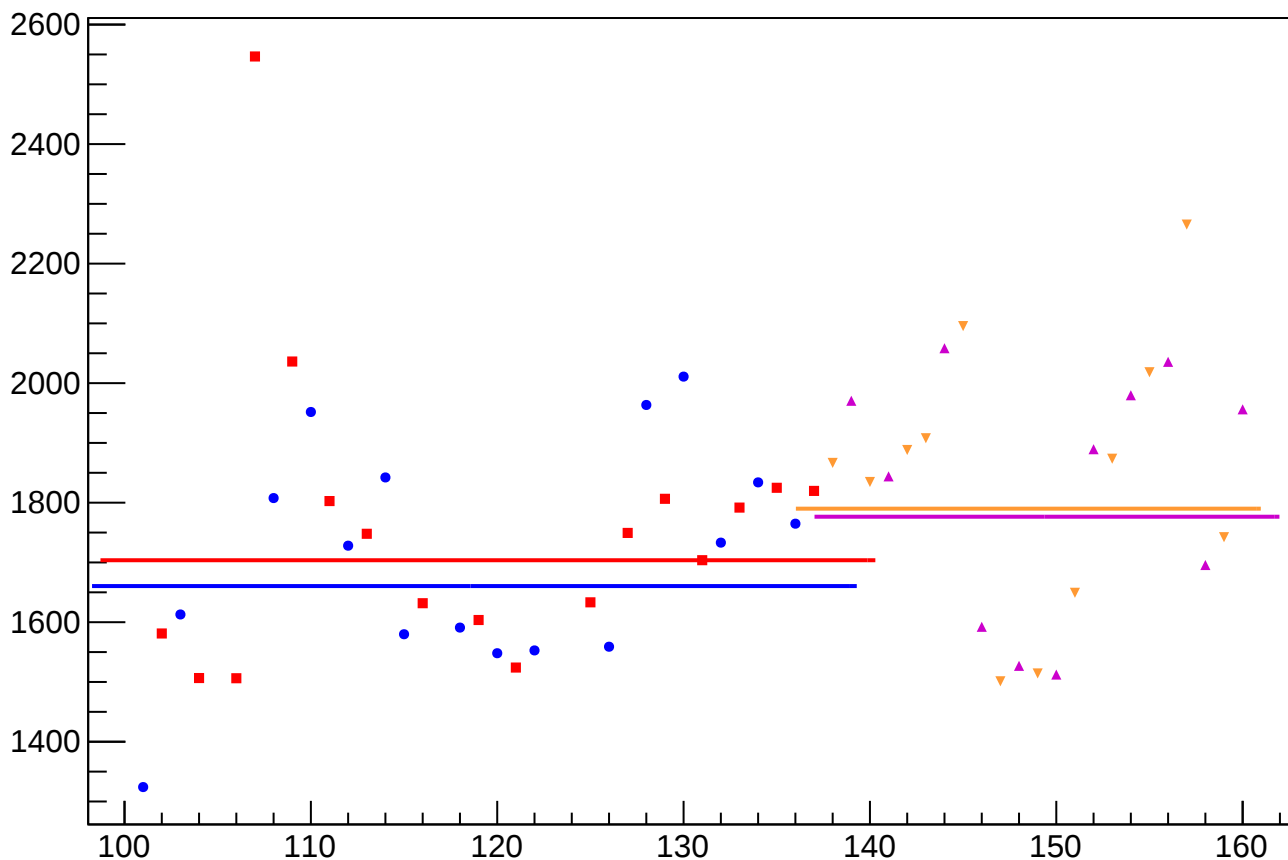
Right: -2725.651 $\pm$ 459.370  $\chi^2/\text{NDF}$ : 29.4/32

In: -2420.681 $\pm$ 437.879  $\chi^2/\text{NDF}$ : 29.1/26

Out: -2260.651 $\pm$ 441.085  $\chi^2/\text{NDF}$ : 25.6/28

All: -2341.250 $\pm$ 310.754  $\chi^2/\text{NDF}$ : 54.7/55

asym\_us\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1660.462+/-0.458  $\chi^2/\text{NDF}$ : 179206.0/15

Left Out: 1789.974+/-0.424  $\chi^2/\text{NDF}$ : 259433.3/11

Right Out: 1703.679+/-0.461  $\chi^2/\text{NDF}$ : 171025.5/16

Left In: 1776.503+/-0.420  $\chi^2/\text{NDF}$ : 233555.1/10

Left: 1783.188+/-0.298  $\chi^2/\text{NDF}$ : 493497.9/22

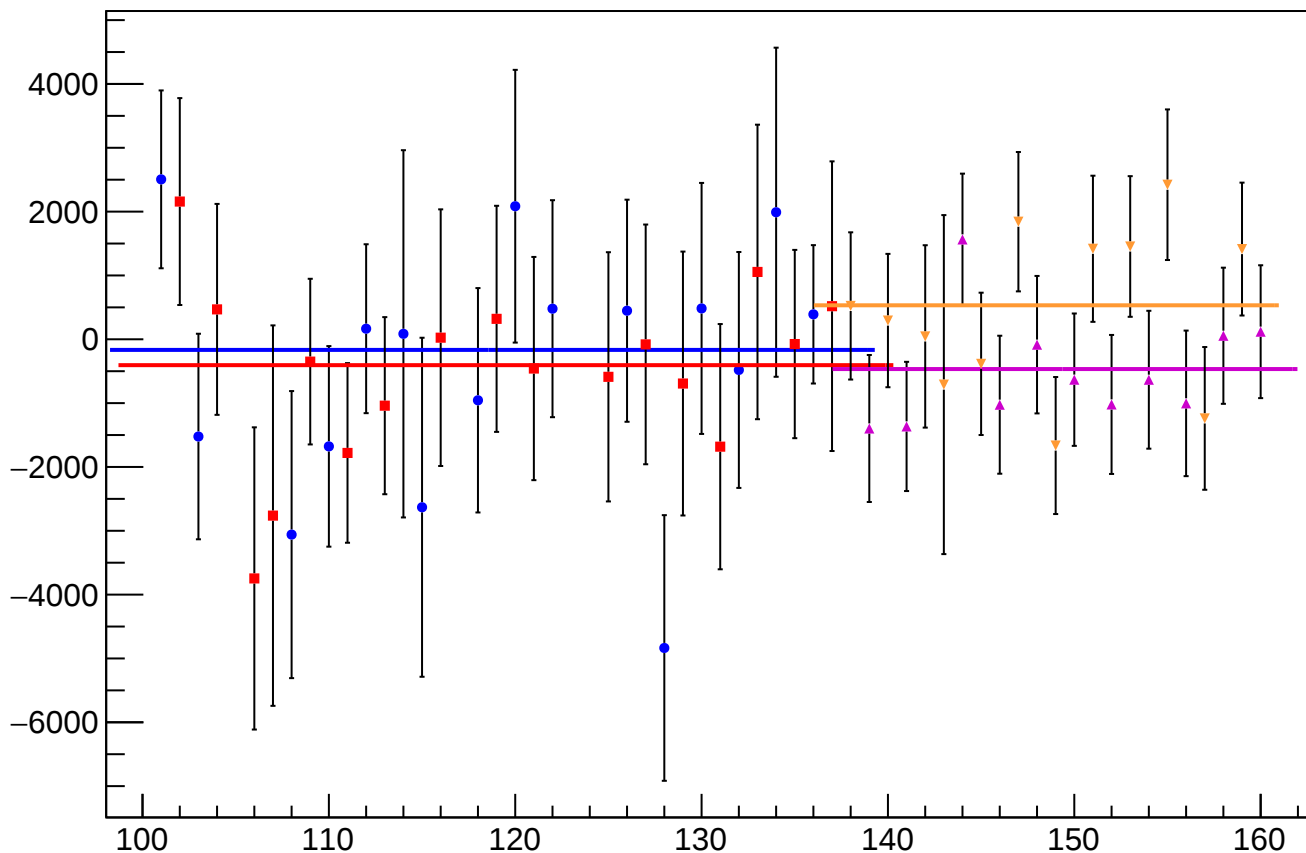
Right: 1681.918+/-0.325  $\chi^2/\text{NDF}$ : 354656.9/32

In: 1723.412+/-0.310  $\chi^2/\text{NDF}$ : 447622.7/26

Out: 1750.475+/-0.312  $\chi^2/\text{NDF}$ : 449459.9/28

All: 1736.844+/-0.220  $\chi^2/\text{NDF}$ : 900874.6/55

# asym\_us\_dd\_mean vs Slug, Sign Corrected



Right In: -166.359+/-432.680  $\chi^2/\text{NDF}$ : 15.6/15

Left Out: 532.489+/-336.313  $\chi^2/\text{NDF}$ : 13.8/11

Right Out: -405.286+/-428.618  $\chi^2/\text{NDF}$ : 7.9/16

Left In: -466.227+/-322.872  $\chi^2/\text{NDF}$ : 6.8/10

Left: 12.776+/-232.912  $\chi^2/\text{NDF}$ : 25.2/22

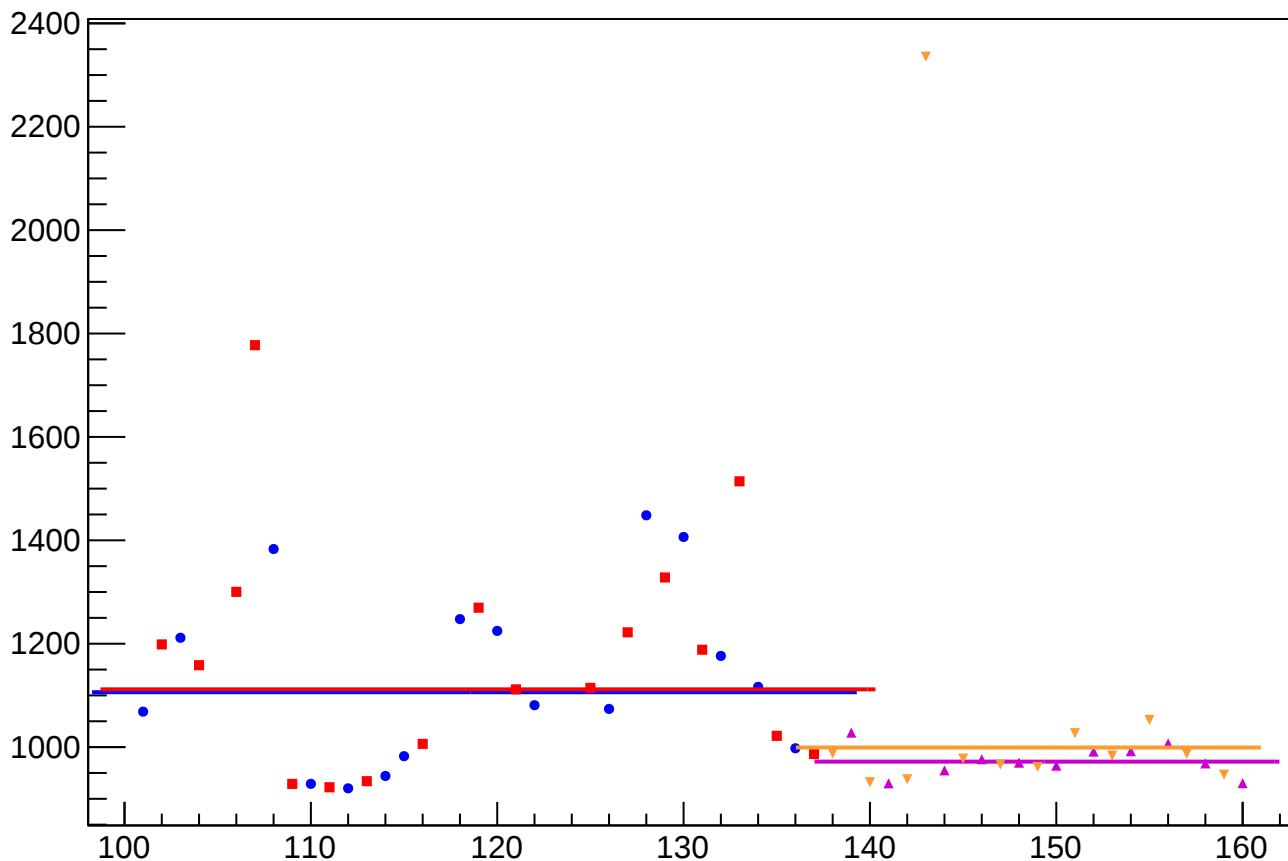
Right: -286.949+/-304.505  $\chi^2/\text{NDF}$ : 23.7/32

In: -358.972+/-258.767  $\chi^2/\text{NDF}$ : 22.7/26

Out: 175.140+/-264.587  $\chi^2/\text{NDF}$ : 24.6/28

All: -97.855+/-184.999  $\chi^2/\text{NDF}$ : 49.5/55

# asym\_us\_dd\_rms vs Slug, Sign Corrected



Right In:  $1106.159 \pm 0.306$   $\chi^2/\text{NDF}: 259917.7/15$

Left Out:  $999.255 \pm 0.238$   $\chi^2/\text{NDF}: 534751.8/11$

Right Out:  $1111.726 \pm 0.303$   $\chi^2/\text{NDF}: 356388.5/16$

Left In:  $971.904 \pm 0.228$   $\chi^2/\text{NDF}: 15370.6/10$

Left:  $985.022 \pm 0.165$   $\chi^2/\text{NDF}: 557006.2/22$

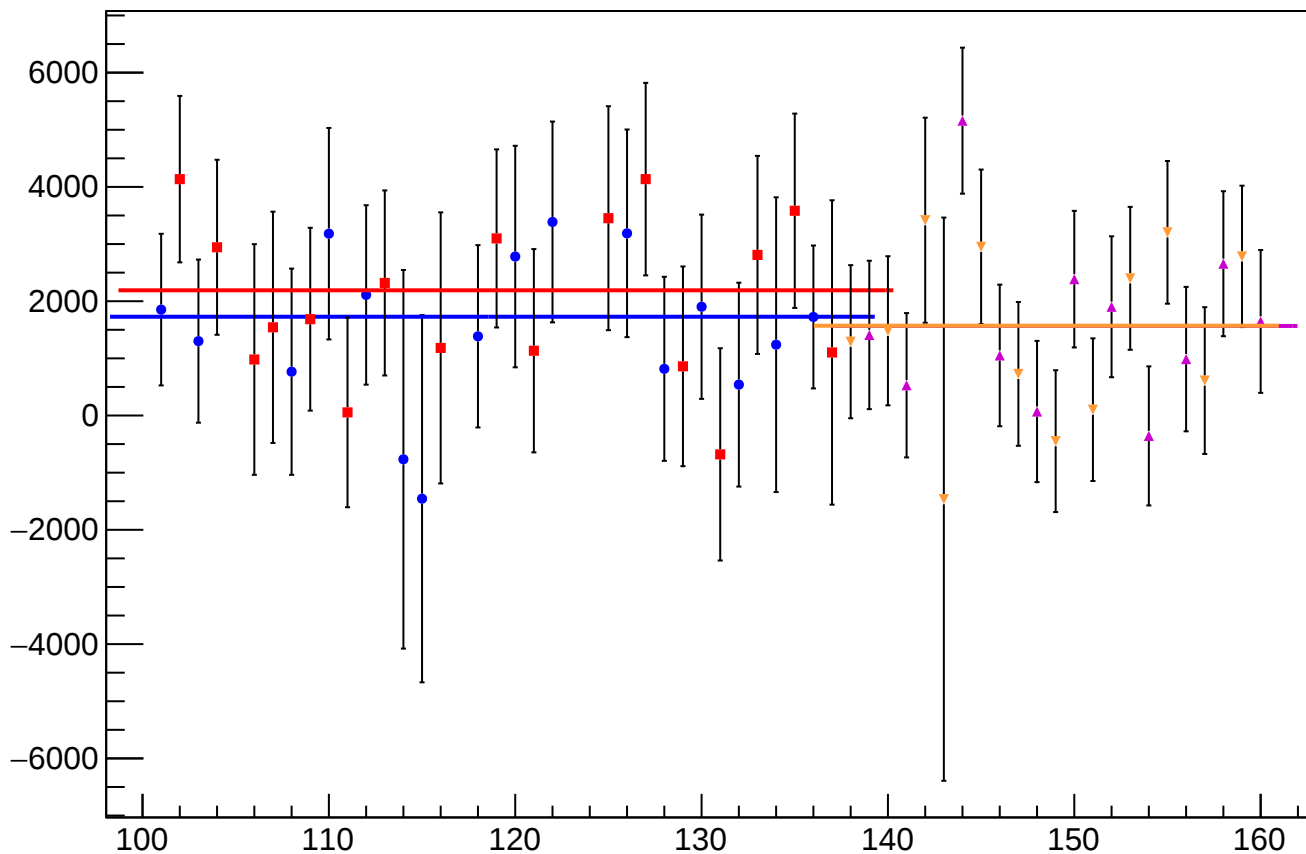
Right:  $1108.969 \pm 0.215$   $\chi^2/\text{NDF}: 616473.4/32$

In:  $1019.923 \pm 0.183$   $\chi^2/\text{NDF}: 398972.7/26$

Out:  $1042.114 \pm 0.187$   $\chi^2/\text{NDF}: 976374.6/28$

All:  $1030.772 \pm 0.131$   $\chi^2/\text{NDF}: 1382537.5/55$

# dit\_asym\_usl\_mean vs Slug, Sign Corrected



Right In: 1728.463 $\pm$ 429.803  $\chi^2/\text{NDF}$ : 5.3/15

Left Out: 1570.929 $\pm$ 391.995  $\chi^2/\text{NDF}$ : 10.7/11

Right Out: 2190.971 $\pm$ 427.222  $\chi^2/\text{NDF}$ : 10.8/16

Left In: 1567.133 $\pm$ 376.345  $\chi^2/\text{NDF}$ : 14.2/10

Left: 1568.954 $\pm$ 271.480  $\chi^2/\text{NDF}$ : 24.9/22

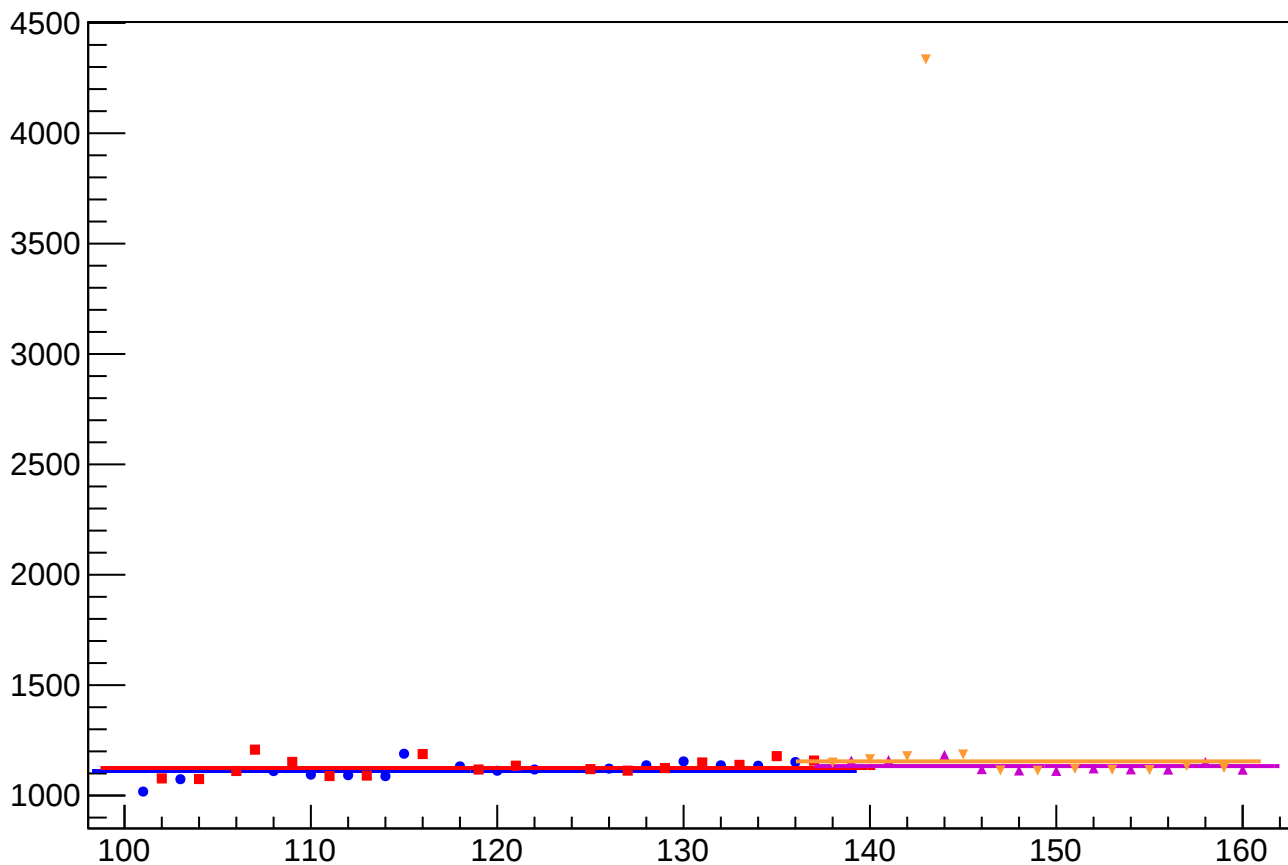
Right: 1961.110 $\pm$ 303.000  $\chi^2/\text{NDF}$ : 16.7/32

In: 1637.147 $\pm$ 283.141  $\chi^2/\text{NDF}$ : 19.6/26

Out: 1854.337 $\pm$ 288.834  $\chi^2/\text{NDF}$ : 22.6/28

All: 1743.581 $\pm$ 202.194  $\chi^2/\text{NDF}$ : 42.5/55

# dit\_asym\_usl\_rms vs Slug, Sign Corrected



Right In: 1111.042+/-0.304  $\chi^2/\text{NDF}$ : 18091.1/15

Left Out: 1154.792+/-0.277  $\chi^2/\text{NDF}$ : 845705.3/11

Right Out: 1124.514+/-0.302  $\chi^2/\text{NDF}$ : 14600.7/16

Left In: 1133.324+/-0.266  $\chi^2/\text{NDF}$ : 7738.1/10

Left: 1143.621+/-0.192  $\chi^2/\text{NDF}$ : 856564.8/22

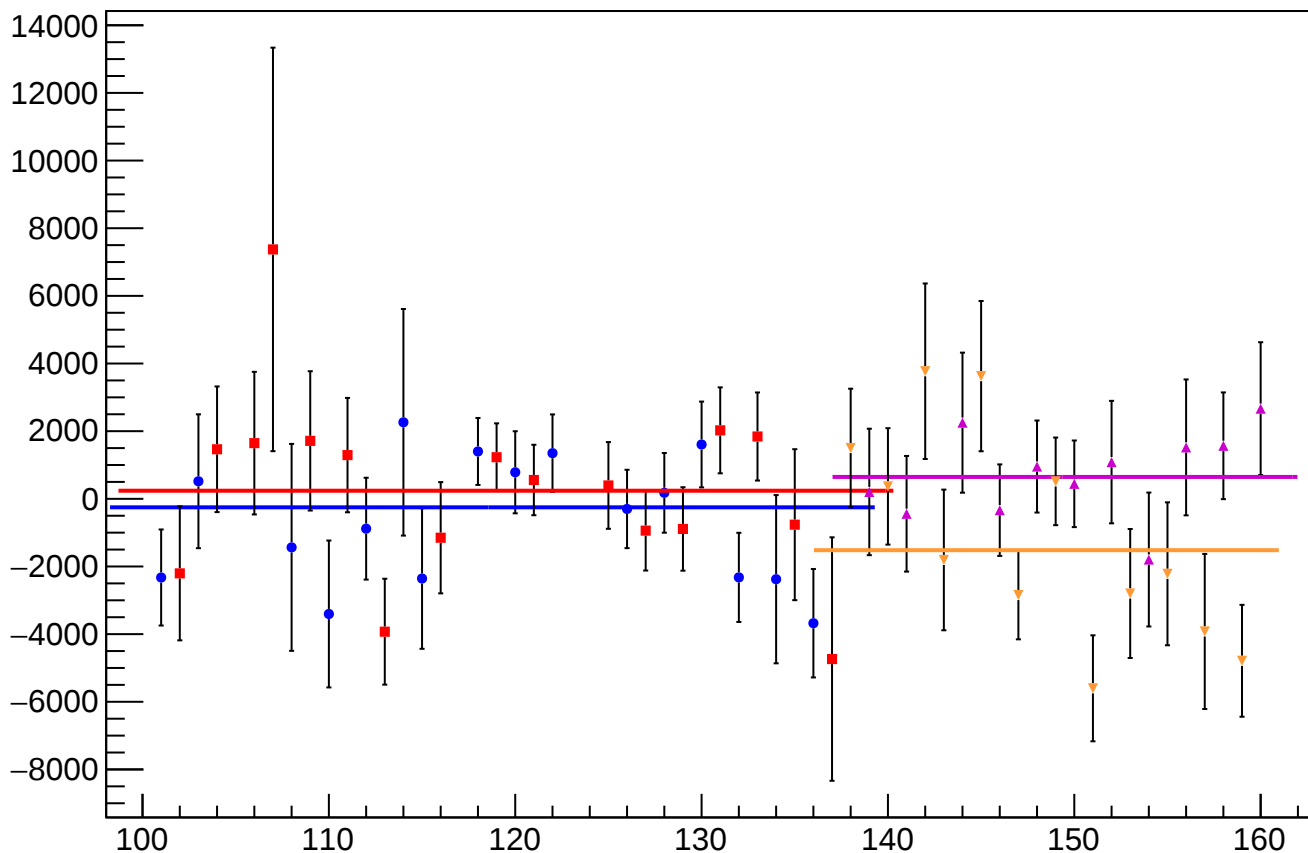
Right: 1117.819+/-0.214  $\chi^2/\text{NDF}$ : 33680.2/32

In: 1123.654+/-0.200  $\chi^2/\text{NDF}$ : 28871.5/26

Out: 1140.953+/-0.204  $\chi^2/\text{NDF}$ : 865759.8/28

All: 1132.131+/-0.143  $\chi^2/\text{NDF}$ : 898289.5/55

# asym\_usl\_correction\_mean vs Slug, Sign Corrected



Right In: -251.327 $\pm$ 364.951  $\chi^2/\text{NDF}$ : 21.8/15

Left Out: -1518.716 $\pm$ 507.264  $\chi^2/\text{NDF}$ : 29.6/11

Right Out: 239.863 $\pm$ 363.842  $\chi^2/\text{NDF}$ : 21.1/16

Left In: 647.237 $\pm$ 498.274  $\chi^2/\text{NDF}$ : 4.8/10

Left: -416.378 $\pm$ 355.469  $\chi^2/\text{NDF}$ : 43.7/22

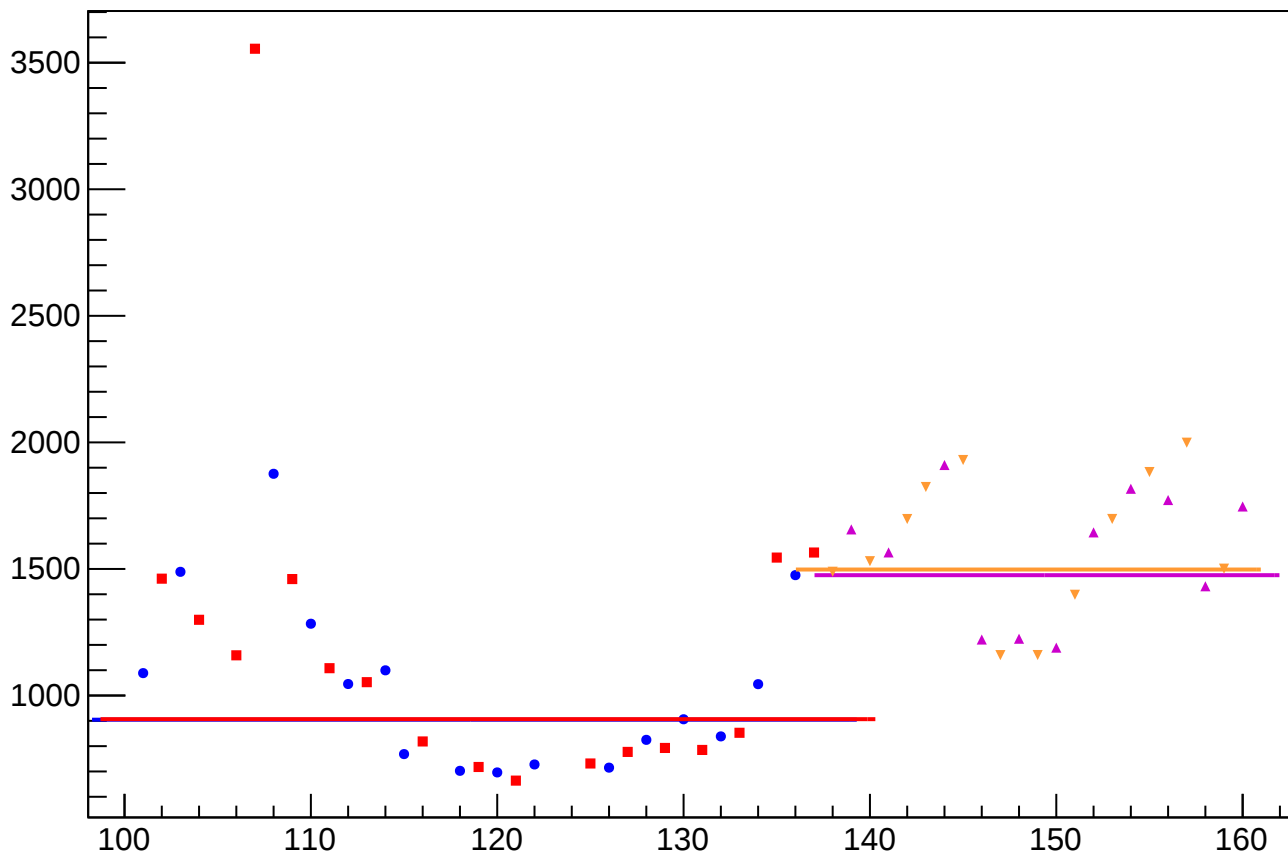
Right: -4.984 $\pm$ 257.666  $\chi^2/\text{NDF}$ : 43.8/32

In: 62.407 $\pm$ 294.425  $\chi^2/\text{NDF}$ : 28.8/26

Out: -357.529 $\pm$ 295.653  $\chi^2/\text{NDF}$ : 58.6/28

All: -146.687 $\pm$ 208.623  $\chi^2/\text{NDF}$ : 88.4/55

# asym\_usl\_correction\_rms vs Slug, Sign Corrected



Right In: 904.488 $\pm$ 0.258  $\chi^2$ /NDF: 1021094.8/15

Left Out: 1497.752 $\pm$ 0.359  $\chi^2$ /NDF: 598863.9/11

Right Out: 906.594 $\pm$ 0.257  $\chi^2$ /NDF: 1376076.4/16

Left In: 1475.411 $\pm$ 0.352  $\chi^2$ /NDF: 511682.6/10

Left: 1486.382 $\pm$ 0.251  $\chi^2$ /NDF: 1112521.0/22

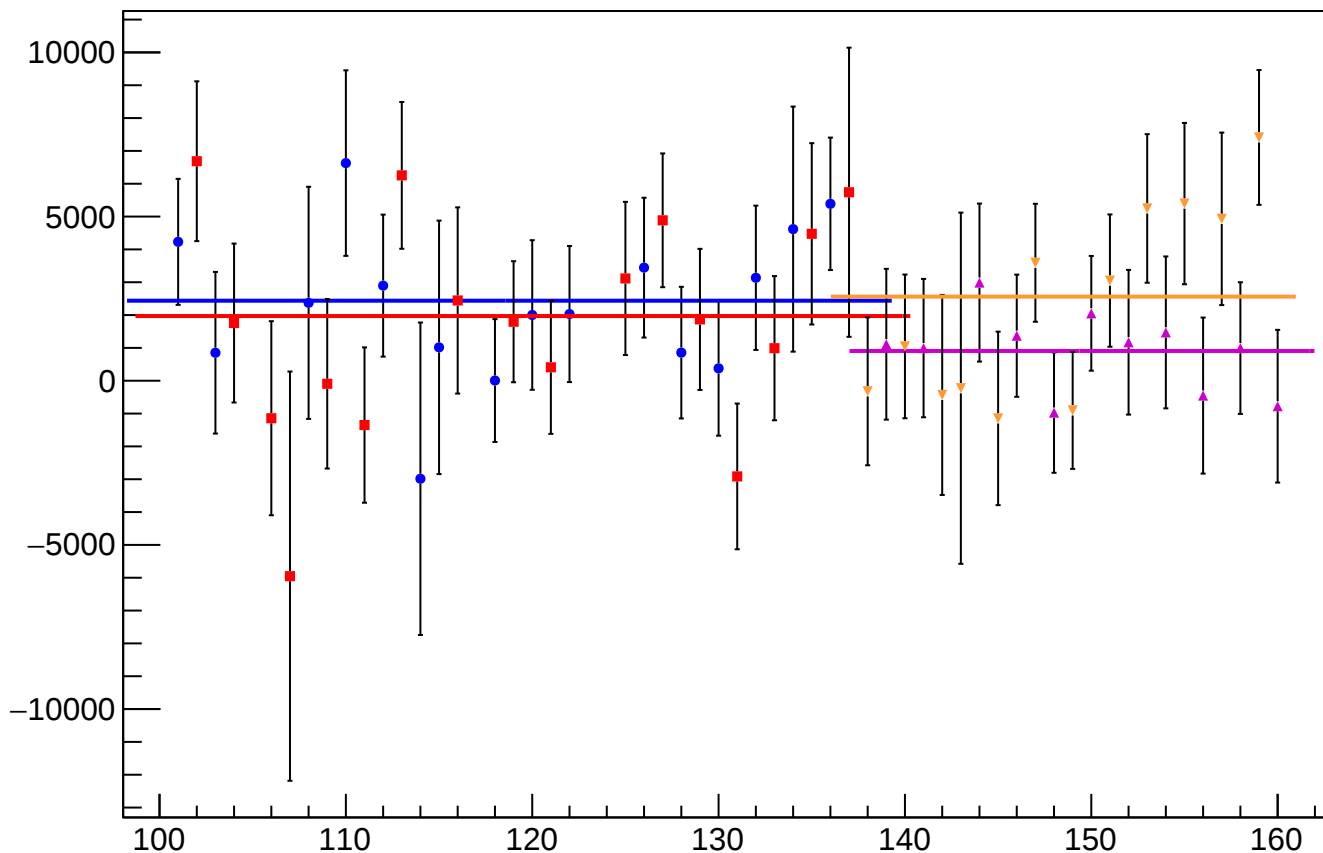
Right: 905.545 $\pm$ 0.182  $\chi^2$ /NDF: 2397204.6/32

In: 1103.826 $\pm$ 0.208  $\chi^2$ /NDF: 3241722.3/26

Out: 1107.412 $\pm$ 0.209  $\chi^2$ /NDF: 3768476.6/28

All: 1105.611 $\pm$ 0.148  $\chi^2$ /NDF: 7010346.6/55

# asym\_usl\_mean vs Slug, Sign Corrected



Right In: 2437.510 $\pm$ 586.231  $\chi^2/\text{NDF}$ : 11.2/15

Left Out: 2561.477 $\pm$ 658.526  $\chi^2/\text{NDF}$ : 18.6/11

Right Out: 1970.445 $\pm$ 586.663  $\chi^2/\text{NDF}$ : 22.3/16

Left In: 906.388 $\pm$ 631.812  $\chi^2/\text{NDF}$ : 3.2/10

Left: 1699.681 $\pm$ 455.910  $\chi^2/\text{NDF}$ : 25.1/22

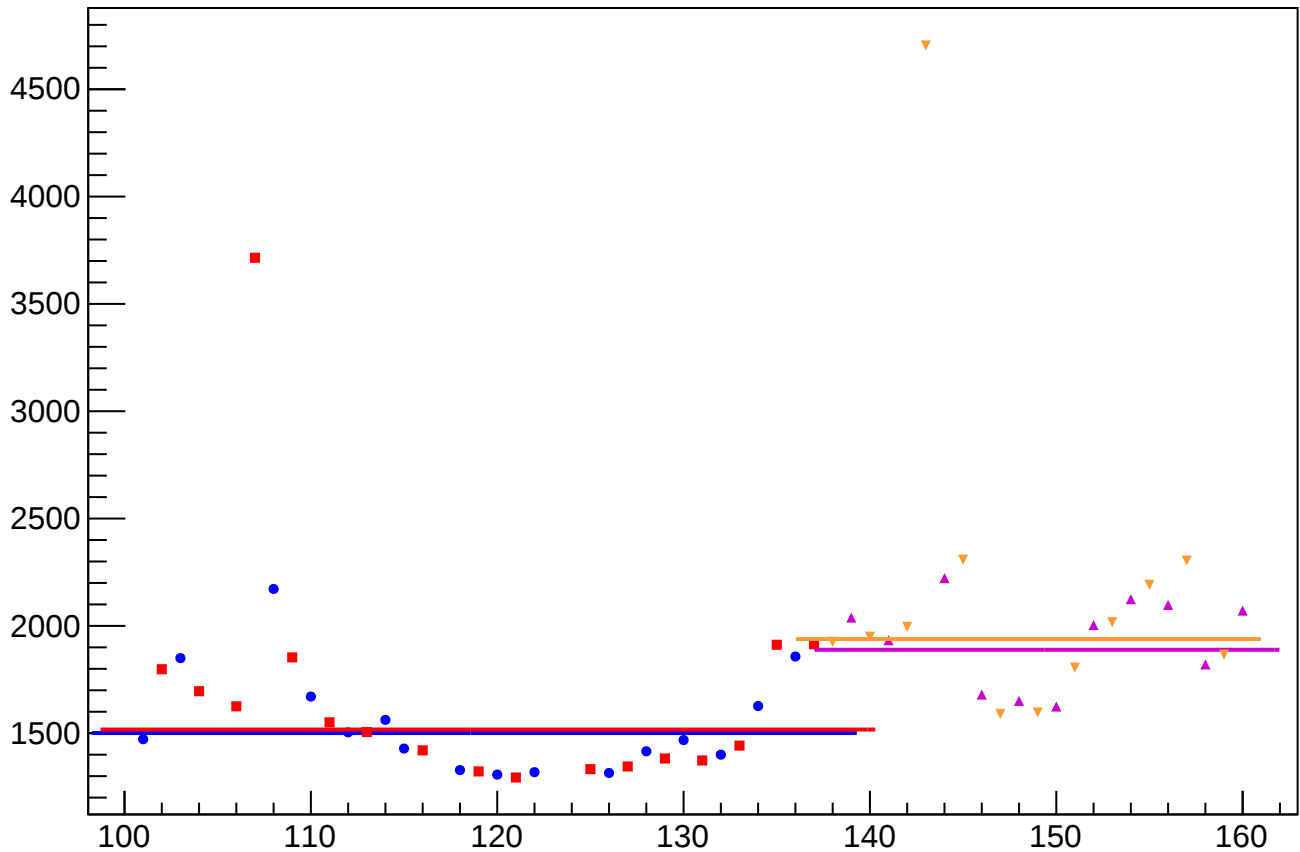
Right: 2204.149 $\pm$ 414.681  $\chi^2/\text{NDF}$ : 33.8/32

In: 1729.165 $\pm$ 429.739  $\chi^2/\text{NDF}$ : 17.6/26

Out: 2231.964 $\pm$ 438.046  $\chi^2/\text{NDF}$ : 41.4/28

All: 1975.752 $\pm$ 306.766  $\chi^2/\text{NDF}$ : 59.6/55

# asym\_usl\_rms vs Slug, Sign Corrected



Left:  $1912.669 \pm 0.322$   $\chi^2/\text{NDF}: 1012123.6/22$

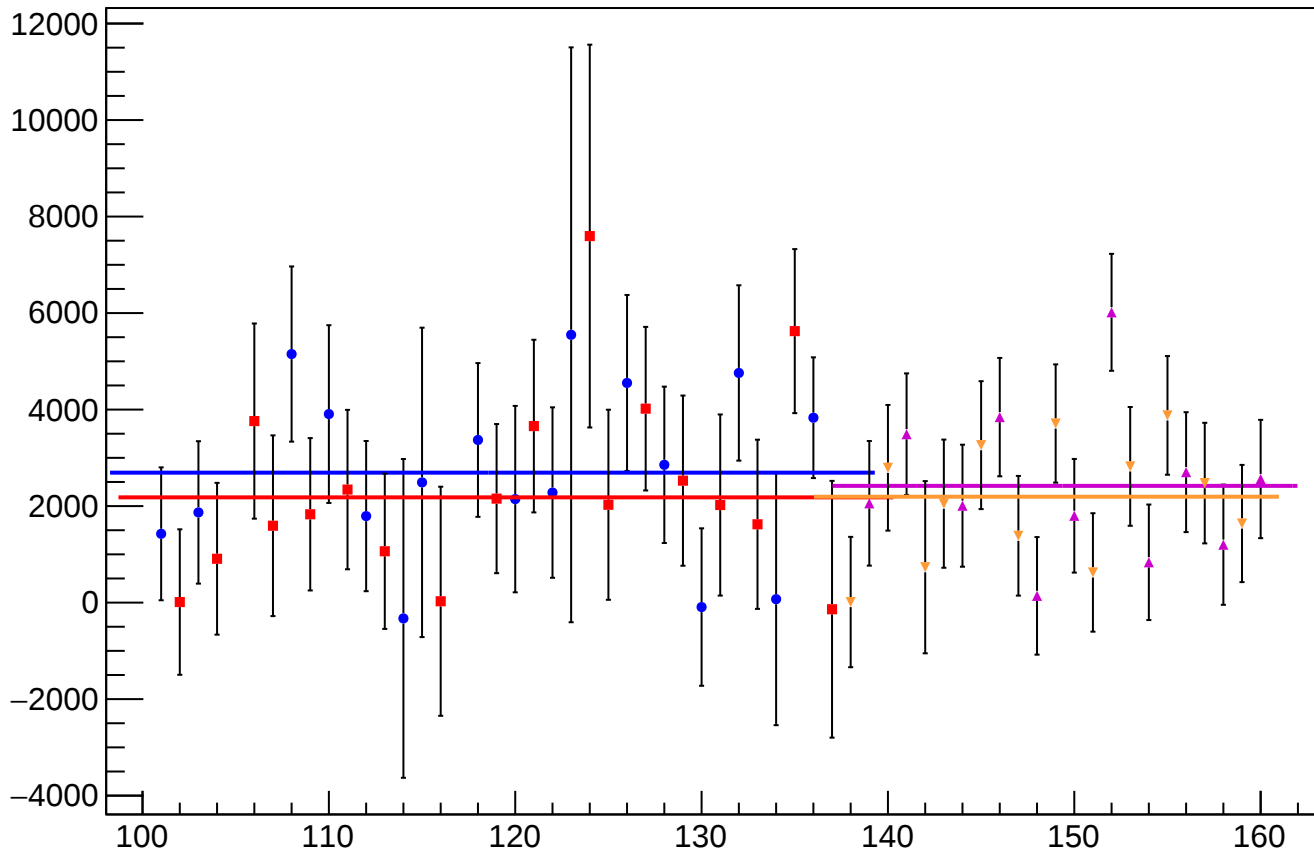
Right:  $1508.969 \pm 0.293$   $\chi^2/\text{NDF}: 732045.6/32$

In:  $1680.293 \pm 0.304$   $\chi^2/\text{NDF}: 870222.8/26$

Out:  $1703.641 \pm 0.310$   $\chi^2/\text{NDF}: 1729229.8/28$

All:  $1691.743 \pm 0.217$   $\chi^2/\text{NDF}: 2602348.0/55$

# dit\_asym\_usr\_mean vs Slug, Sign Corrected



Right In: 2692.998 $\pm$ 432.616  $\chi^2$ /NDF: 12.2/16

Left Out: 2194.446 $\pm$ 372.469  $\chi^2$ /NDF:10.1/11

Right Out: 2180.980 $\pm$ 425.451  $\chi^2$ /NDF: 13.5/17

Left In: 2419.282 $\pm$ 371.356  $\chi^2$ /NDF:17.6/10

Left: 2307.200 $\pm$ 262.981  $\chi^2$ /NDF: 27.9/22

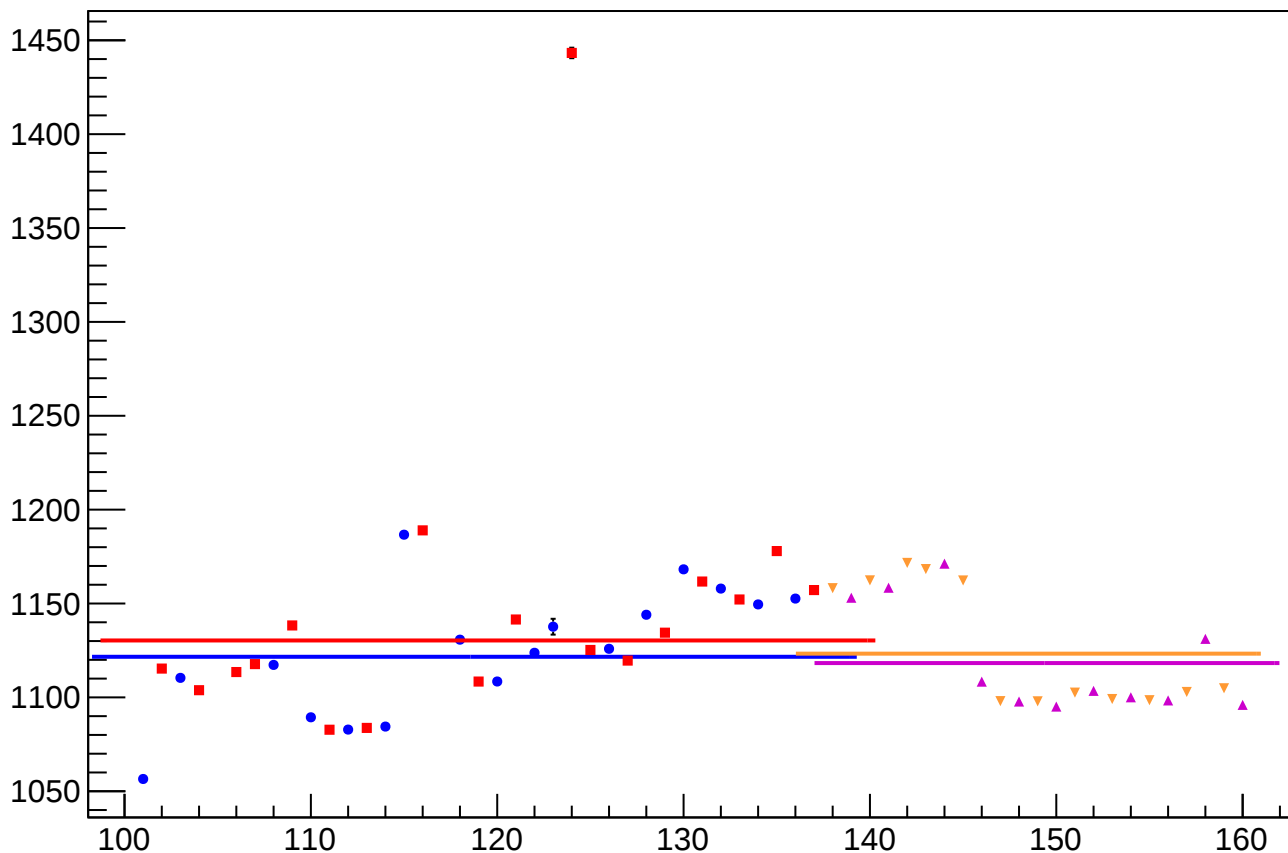
Right: 2432.714 $\pm$ 303.341  $\chi^2$ /NDF: 26.5/34

In: 2535.404 $\pm$ 281.780  $\chi^2$ /NDF:30.1/27

Out: 2188.603 $\pm$ 280.247  $\chi^2$ /NDF:23.7/29

All: 2361.057 $\pm$ 198.704  $\chi^2$ /NDF: 54.5/57

# dit\_asym\_usr\_rms vs Slug, Sign Corrected



Right In: 1121.626 $\pm$ 0.306  $\chi^2$ /NDF: 11980.2/16

Left Out: 1123.292 $\pm$ 0.263  $\chi^2$ /NDF:13471.0/11

Right Out: 1130.316 $\pm$ 0.301  $\chi^2$ /NDF: 21276.1/17

Left In: 1118.277 $\pm$ 0.263  $\chi^2$ /NDF:10607.7/10

Left: 1120.777 $\pm$ 0.186  $\chi^2$ /NDF: 24260.6/22

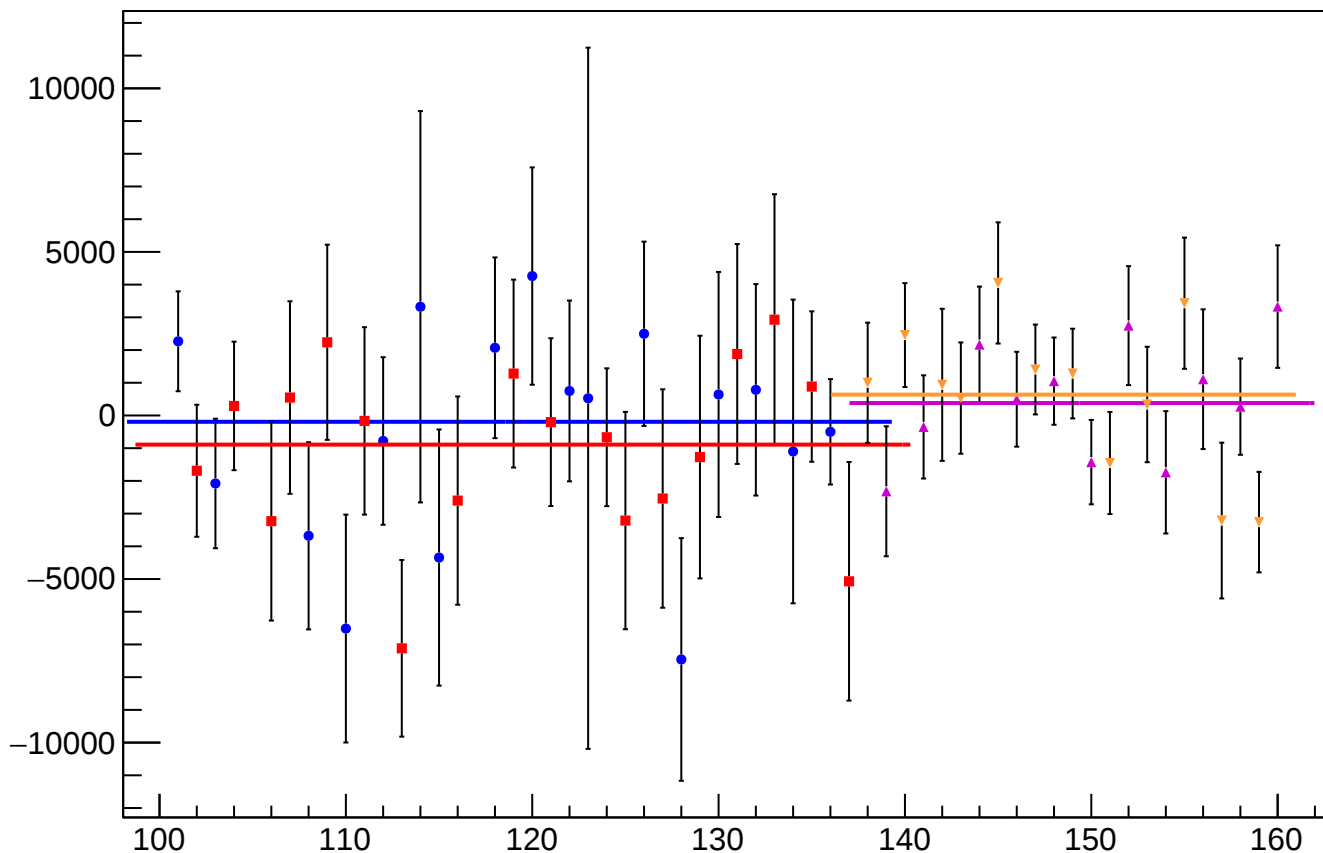
Right: 1126.044 $\pm$ 0.214  $\chi^2$ /NDF: 33666.6/34

In: 1119.698 $\pm$ 0.199  $\chi^2$ /NDF:22657.0/27

Out: 1126.339 $\pm$ 0.198  $\chi^2$ /NDF:35055.8/29

All: 1123.037 $\pm$ 0.141  $\chi^2$ /NDF: 58271.4/57

asym\_usr\_correction\_mean vs Slug, Sign Corrected



Right In: -193.332 $\pm$ 660.359  $\chi^2$ /NDF: 17.4/16

Left Out: 637.217 $\pm$ 490.437  $\chi^2$ /NDF:18.1/11

Right Out: -891.057 $\pm$ 649.405  $\chi^2$ /NDF: 13.1/17

Left In: 379.574 $\pm$ 489.863  $\chi^2$ /NDF:10.9/10

Left: 508.244 $\pm$ 346.588  $\chi^2$ /NDF: 29.1/22

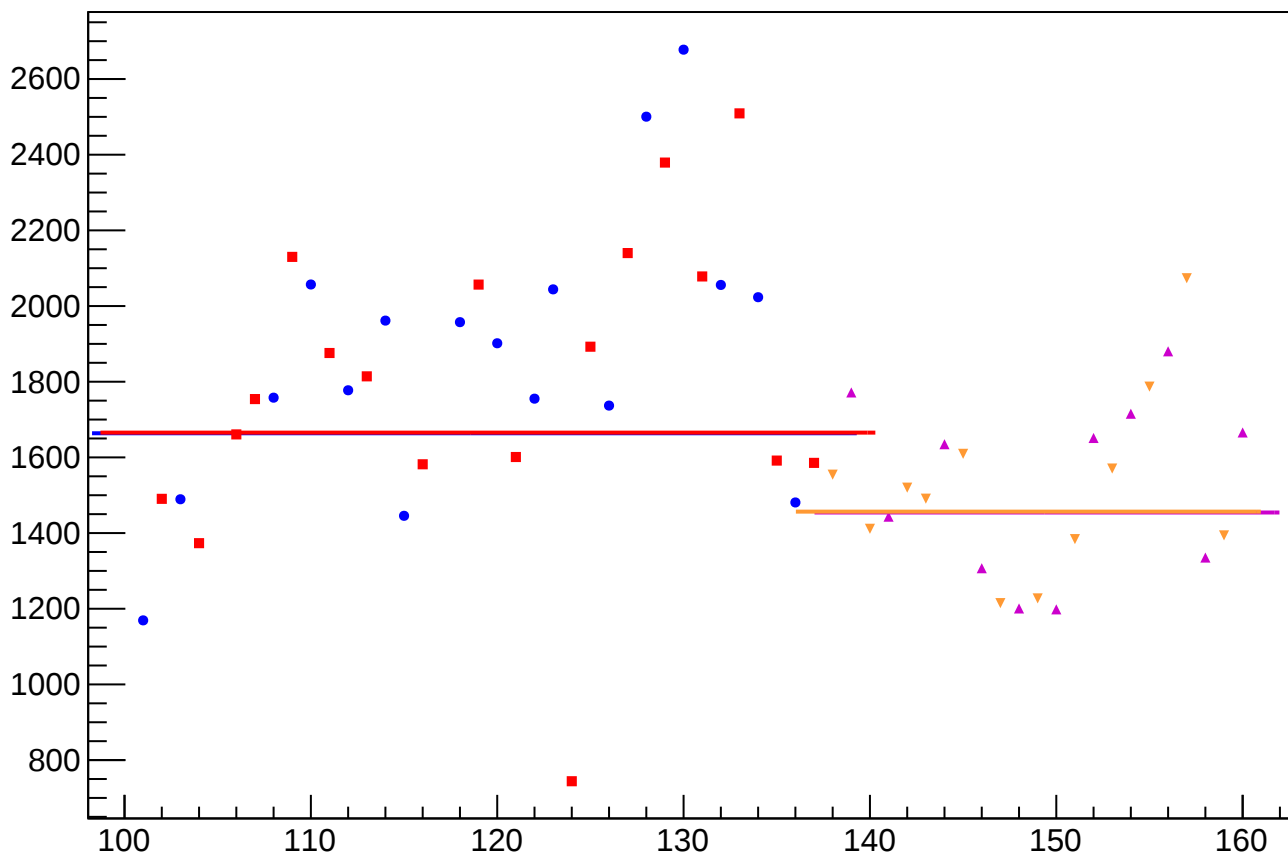
Right: -548.030 $\pm$ 463.023  $\chi^2$ /NDF: 31.0/34

In: 176.216 $\pm$ 393.431  $\chi^2$ /NDF:28.7/27

Out: 82.154 $\pm$ 391.369  $\chi^2$ /NDF:34.8/29

All: 128.938 $\pm$ 277.466  $\chi^2$ /NDF: 63.5/57

# asym\_usr\_correction\_rms vs Slug, Sign Corrected



Right In: 1663.779 $\pm$ 0.467  $\chi^2$ /NDF: 622477.6/16

Left Out: 1456.666 $\pm$ 0.347  $\chi^2$ /NDF: 345652.7/11

Right Out: 1665.466 $\pm$ 0.459  $\chi^2$ /NDF: 802791.6/17

Left In: 1454.367 $\pm$ 0.346  $\chi^2$ /NDF: 424194.7/10

Left: 1455.515 $\pm$ 0.245  $\chi^2$ /NDF: 769869.4/22

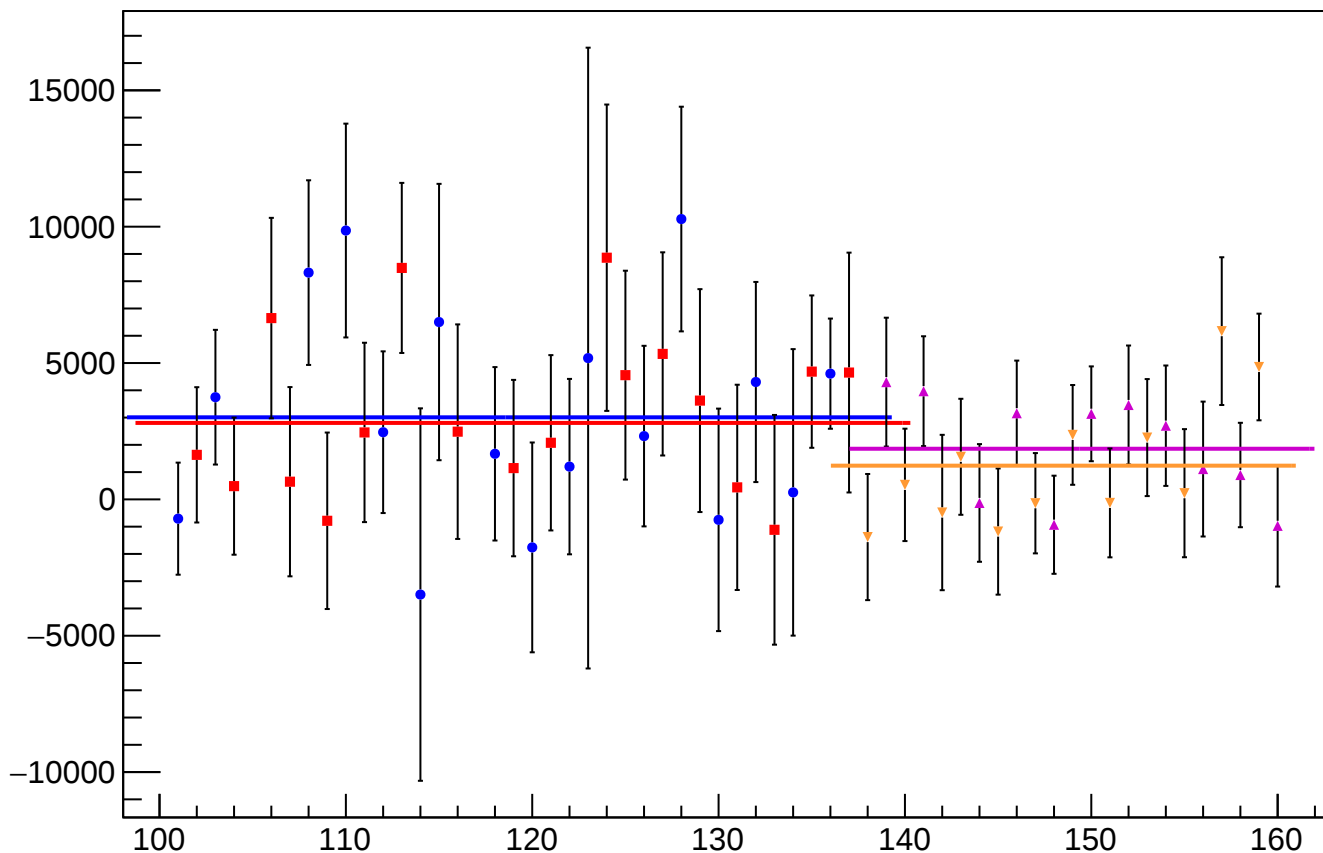
Right: 1664.637 $\pm$ 0.327  $\chi^2$ /NDF: 1425275.8/34

In: 1528.700 $\pm$ 0.278  $\chi^2$ /NDF: 1176408.6/27

Out: 1532.502 $\pm$ 0.277  $\chi^2$ /NDF: 1280108.2/29

All: 1530.611 $\pm$ 0.196  $\chi^2$ /NDF: 2456610.6/57

# asym\_usr\_mean vs Slug, Sign Corrected



Right In: 3009.190 $\pm$ 799.647  $\chi^2$ /NDF: 17.4/16

Left Out: 1236.409 $\pm$ 620.747  $\chi^2$ /NDF: 11.4/11

Right Out: 2803.971 $\pm$ 799.589  $\chi^2$ /NDF: 11.2/17

Left In: 1856.771 $\pm$ 619.914  $\chi^2$ /NDF: 9.1/10

Left: 1547.007 $\pm$ 438.639  $\chi^2$ /NDF: 21.0/22

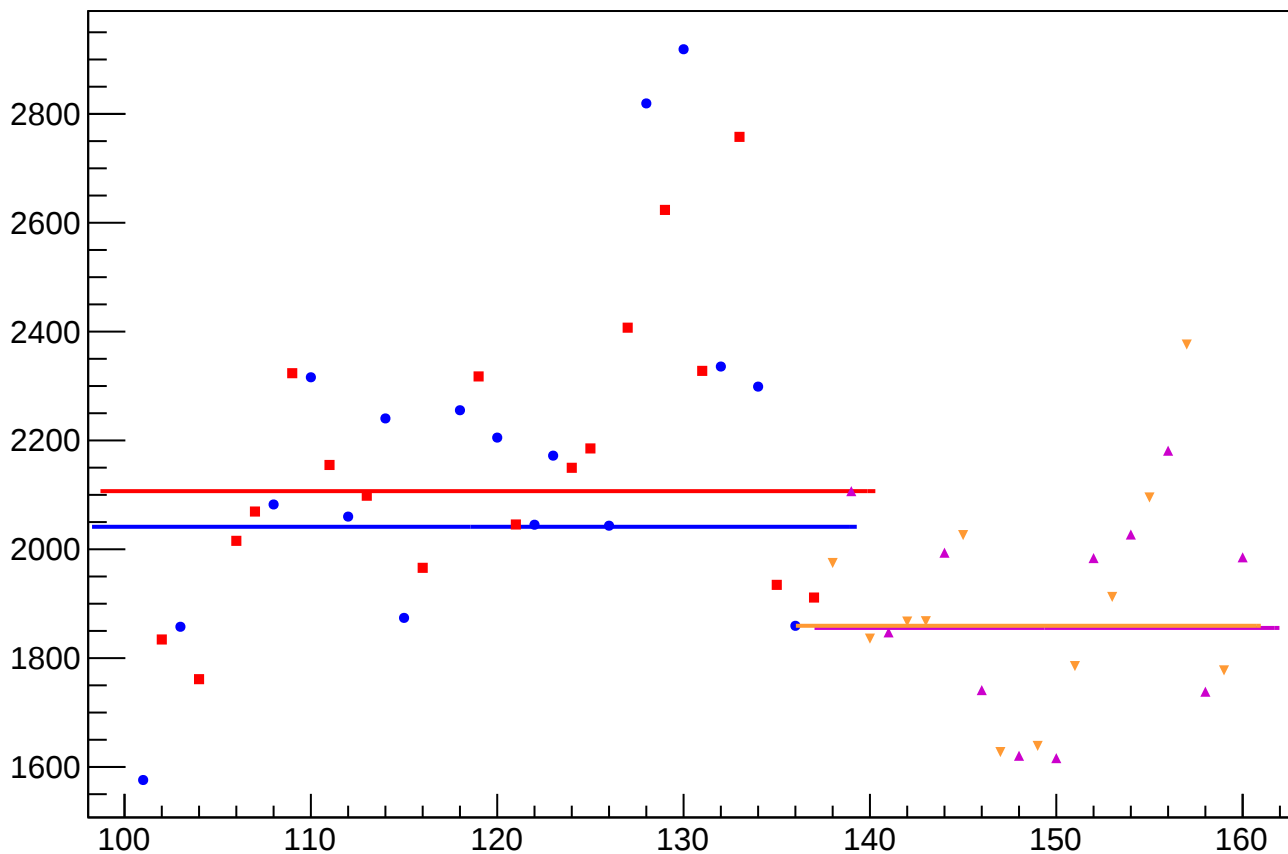
Right: 2906.573 $\pm$ 565.416  $\chi^2$ /NDF: 28.6/34

In: 2289.373 $\pm$ 489.934  $\chi^2$ /NDF: 27.7/27

Out: 1825.890 $\pm$ 490.331  $\chi^2$ /NDF: 25.0/29

All: 2057.819 $\pm$ 346.576  $\chi^2$ /NDF: 53.2/57

# asym\_usr\_rms vs Slug, Sign Corrected



Right In: 2041.348+/-0.565  $\chi^2/\text{NDF}$ : 338436.8/16

Left Out: 1859.445+/-0.439  $\chi^2/\text{NDF}$ : 177051.4/11

Right Out: 2106.845+/-0.565  $\chi^2/\text{NDF}$ : 196720.6/17

Left In: 1855.489+/-0.438  $\chi^2/\text{NDF}$ : 177826.0/10

Left: 1857.464+/-0.310  $\chi^2/\text{NDF}$ : 354918.1/22

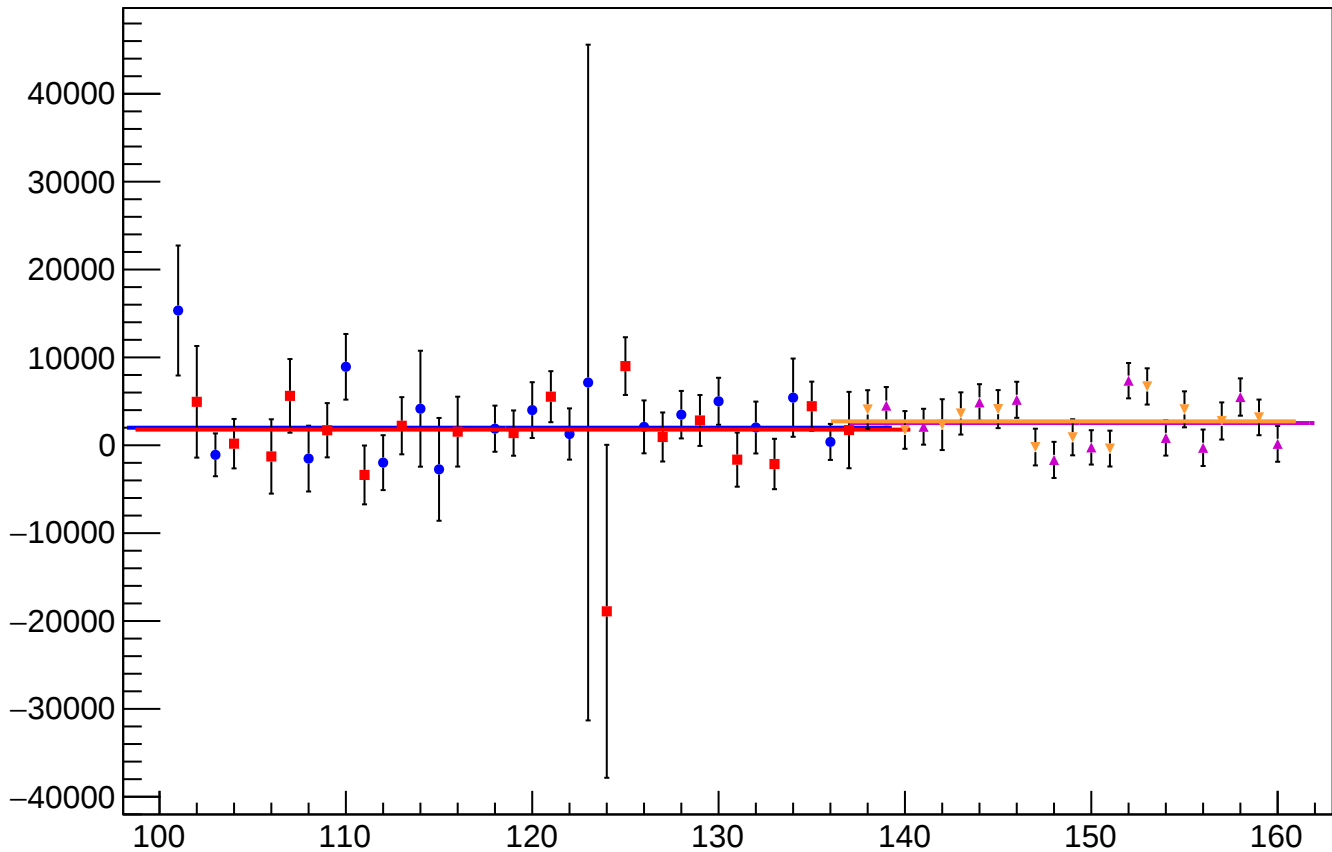
Right: 2074.099+/-0.400  $\chi^2/\text{NDF}$ : 541866.5/34

In: 1925.258+/-0.346  $\chi^2/\text{NDF}$ : 583748.7/27

Out: 1952.479+/-0.347  $\chi^2/\text{NDF}$ : 493238.4/29

All: 1938.858+/-0.245  $\chi^2/\text{NDF}$ : 1080071.7/57

# dit\_asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 1999.899+/-781.612  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: 2725.724+/-622.782  $\chi^2/\text{NDF}$ : 10.4/11

Right Out: 1781.823+/-781.836  $\chi^2/\text{NDF}$ : 16.3/17

Left In: 2532.758+/-617.816  $\chi^2/\text{NDF}$ : 21.6/10

Left: 2628.469+/-438.607  $\chi^2/\text{NDF}$ : 32.1/22

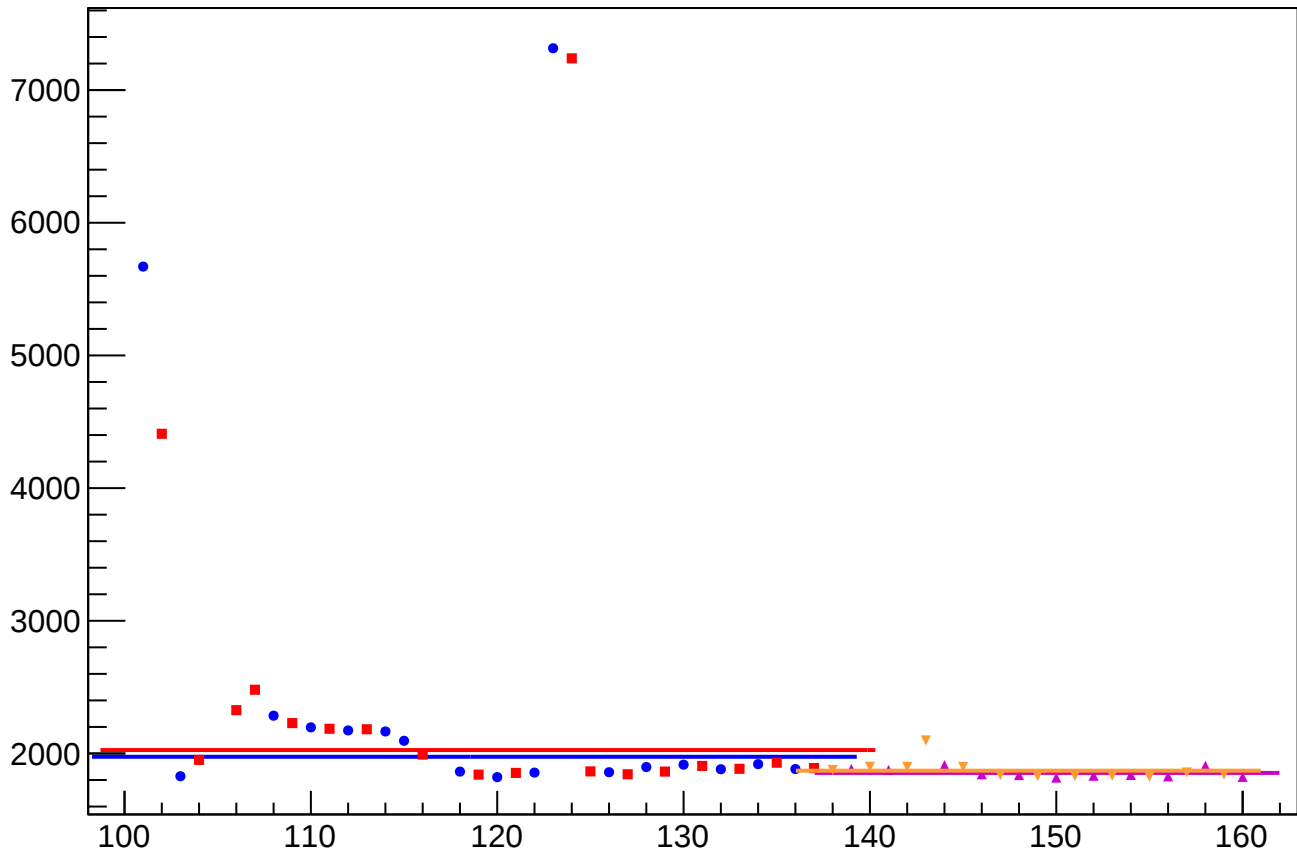
Right: 1890.892+/-552.762  $\chi^2/\text{NDF}$ : 31.1/34

In: 2327.854+/-484.686  $\chi^2/\text{NDF}$ : 36.7/27

Out: 2359.304+/-487.127  $\chi^2/\text{NDF}$ : 27.6/29

All: 2343.500+/-343.584  $\chi^2/\text{NDF}$ : 64.3/57

# dit\_asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 1975.109+/-0.553  $\chi^2/\text{NDF}$ : 599831.6/16

Left Out: 1870.371+/-0.440  $\chi^2/\text{NDF}$ : 23110.6/11

Right Out: 2025.871+/-0.553  $\chi^2/\text{NDF}$ : 535385.1/17

Left In: 1853.529+/-0.437  $\chi^2/\text{NDF}$ : 5421.1/10

Left: 1861.882+/-0.310  $\chi^2/\text{NDF}$ : 29268.9/22

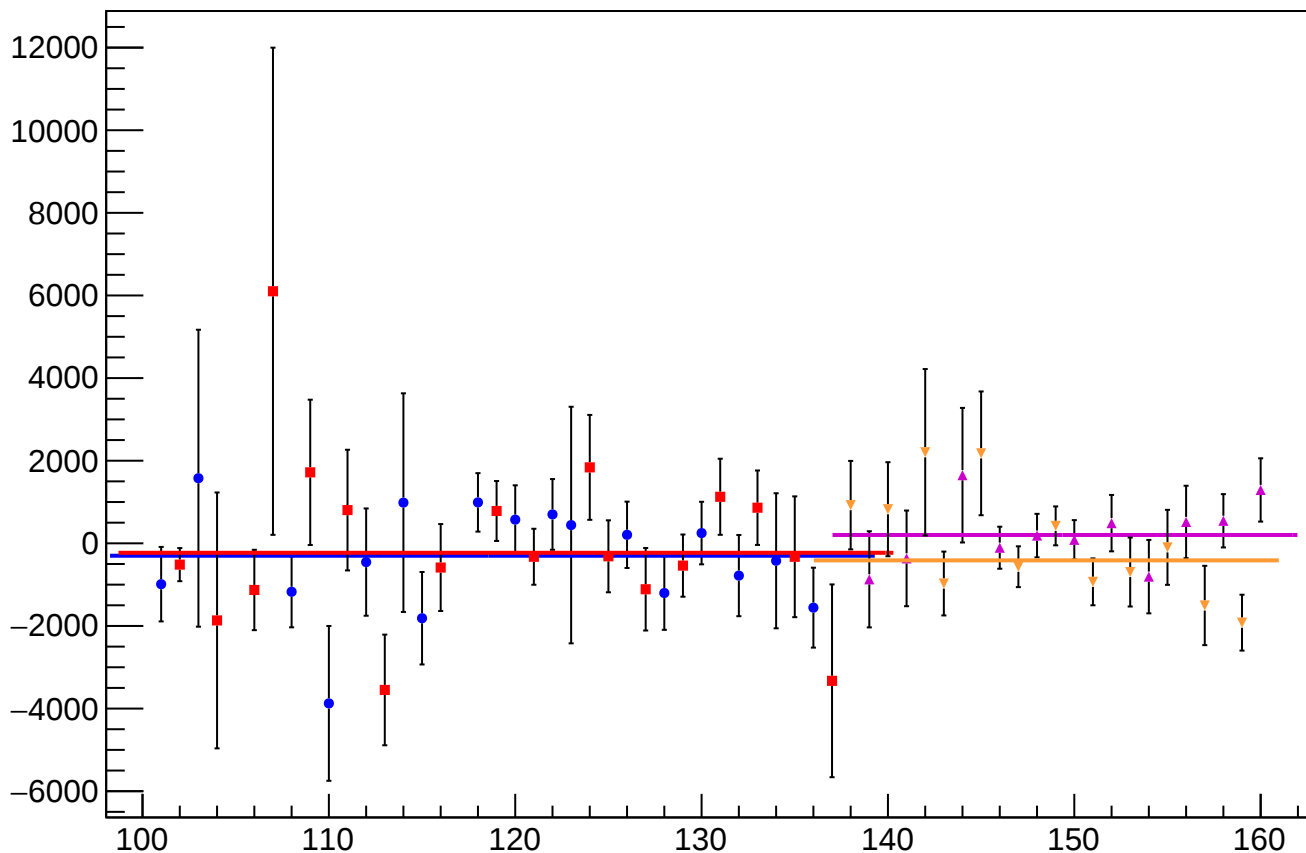
Right: 2000.483+/-0.391  $\chi^2/\text{NDF}$ : 1139433.4/34

In: 1900.281+/-0.343  $\chi^2/\text{NDF}$ : 635036.2/27

Out: 1930.736+/-0.344  $\chi^2/\text{NDF}$ : 606898.6/29

All: 1915.432+/-0.243  $\chi^2/\text{NDF}$ : 1245863.1/57

asym\_at1\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -299.990+/-246.615  $\chi^2/\text{NDF}$ : 17.3/16

Left Out: -412.251+/-214.948  $\chi^2/\text{NDF}$ : 18.5/11

Right Out: -228.794+/-215.624  $\chi^2/\text{NDF}$ : 21.8/17

Left In: 202.303+/-210.537  $\chi^2/\text{NDF}$ : 6.2/10

Left: -98.603+/-150.407  $\chi^2/\text{NDF}$ : 28.9/22

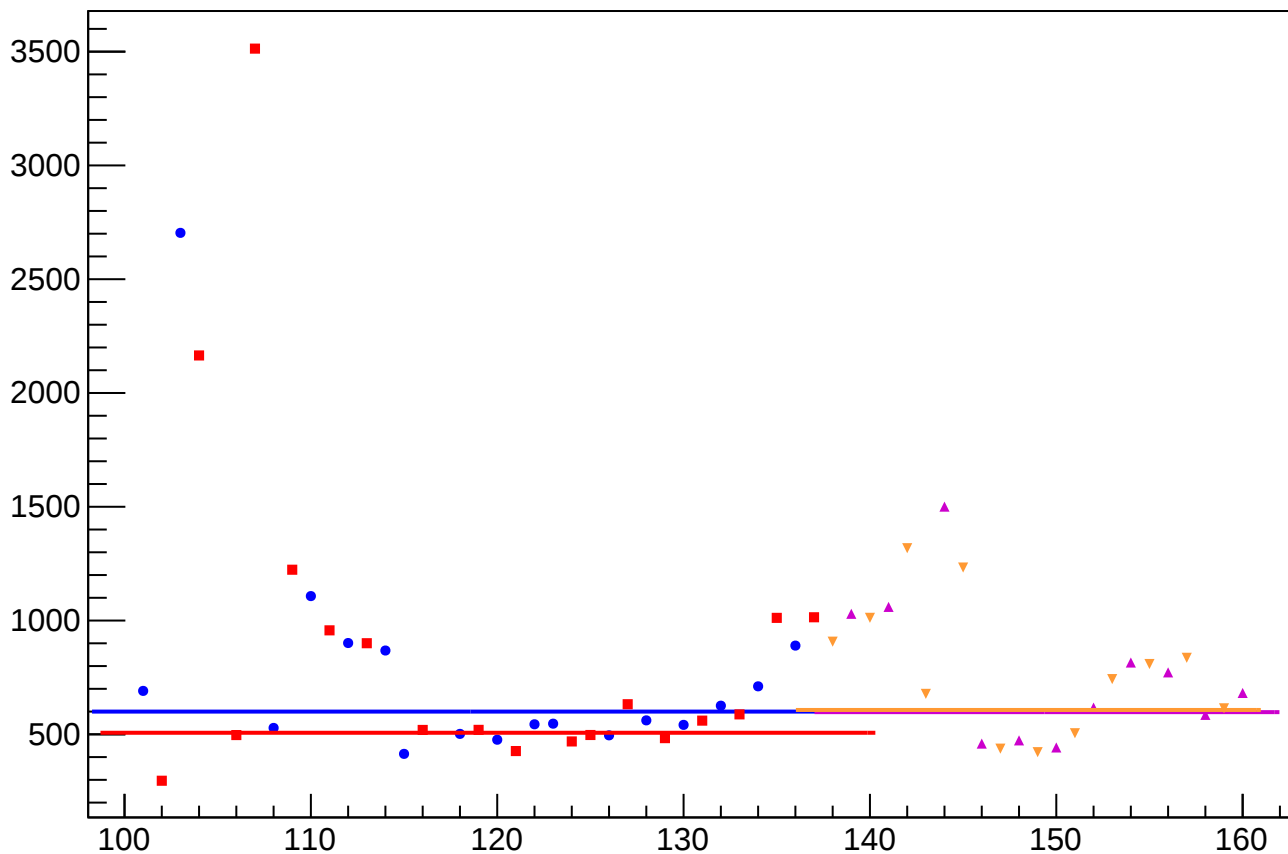
Right: -259.640+/-162.327  $\chi^2/\text{NDF}$ : 39.2/34

In: -9.448+/-160.123  $\chi^2/\text{NDF}$ : 26.0/27

Out: -320.810+/-152.230  $\chi^2/\text{NDF}$ : 40.7/29

All: -172.992+/-110.328  $\chi^2/\text{NDF}$ : 68.6/57

asym\_at1\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 599.953+/-0.174  $\chi^2/\text{NDF}$ : 1381049.4/16

Left Out: 607.083+/-0.152  $\chi^2/\text{NDF}$ :1903400.3/11

Right Out: 506.876+/-0.152  $\chi^2/\text{NDF}$ : 2760863.3/17

Left In: 597.526+/-0.149  $\chi^2/\text{NDF}$ :1907340.2/10

Left: 602.206+/-0.106  $\chi^2/\text{NDF}$ : 3812758.3/22

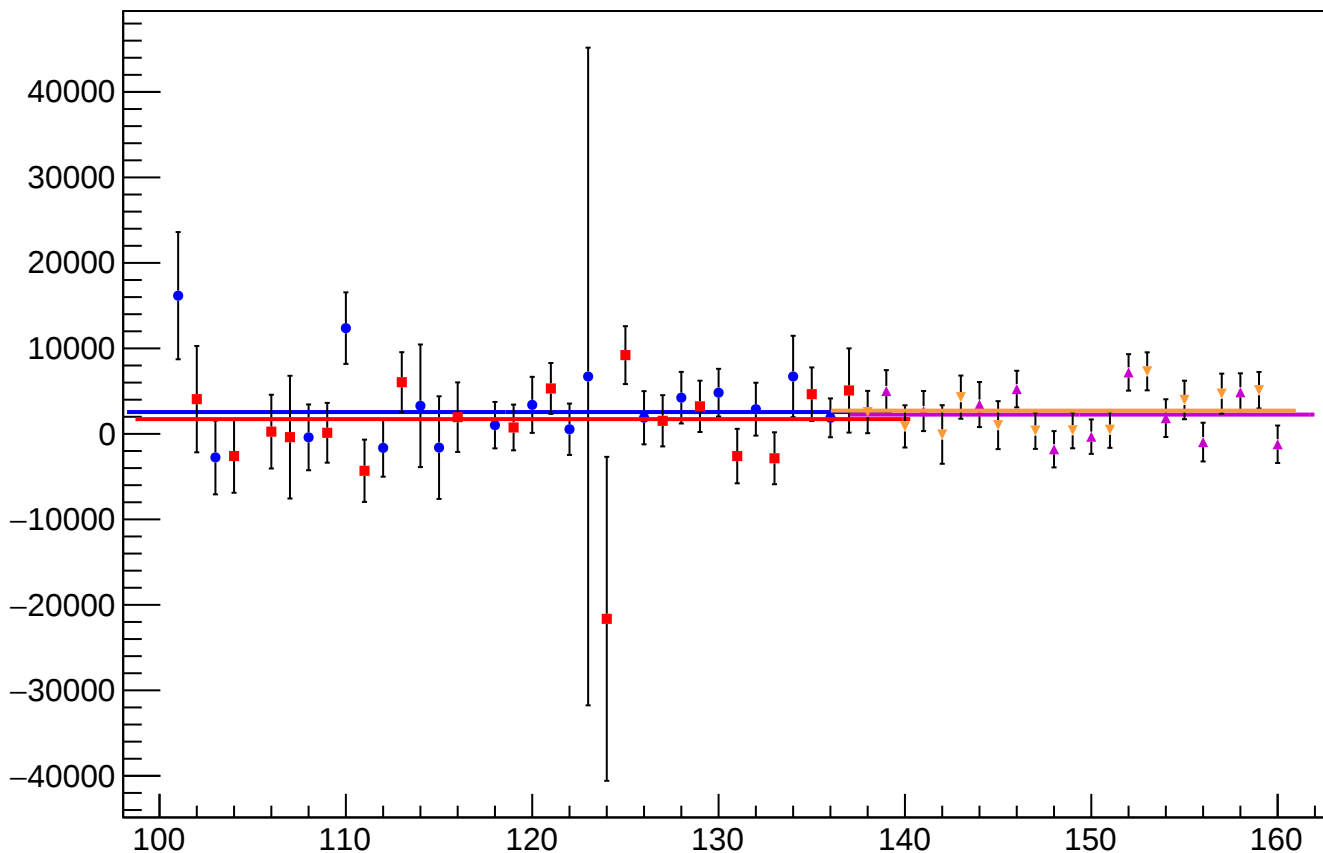
Right: 547.202+/-0.115  $\chi^2/\text{NDF}$ : 4303374.7/34

In: 598.549+/-0.113  $\chi^2/\text{NDF}$ :3288501.7/27

Out: 557.137+/-0.108  $\chi^2/\text{NDF}$ :4880918.5/29

All: 576.797+/-0.078  $\chi^2/\text{NDF}$ : 8239688.6/57

# asym\_at1\_avg\_mean vs Slug, Sign Corrected



Right In: 2553.597 $\pm$ 858.906  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 2720.920 $\pm$ 679.708  $\chi^2/\text{NDF}$ : 12.0/11

Right Out: 1727.074 $\pm$ 855.162  $\chi^2/\text{NDF}$ : 19.5/17

Left In: 2256.349 $\pm$ 672.595  $\chi^2/\text{NDF}$ : 20.0/10

Left: 2486.191 $\pm$ 478.091  $\chi^2/\text{NDF}$ : 32.3/22

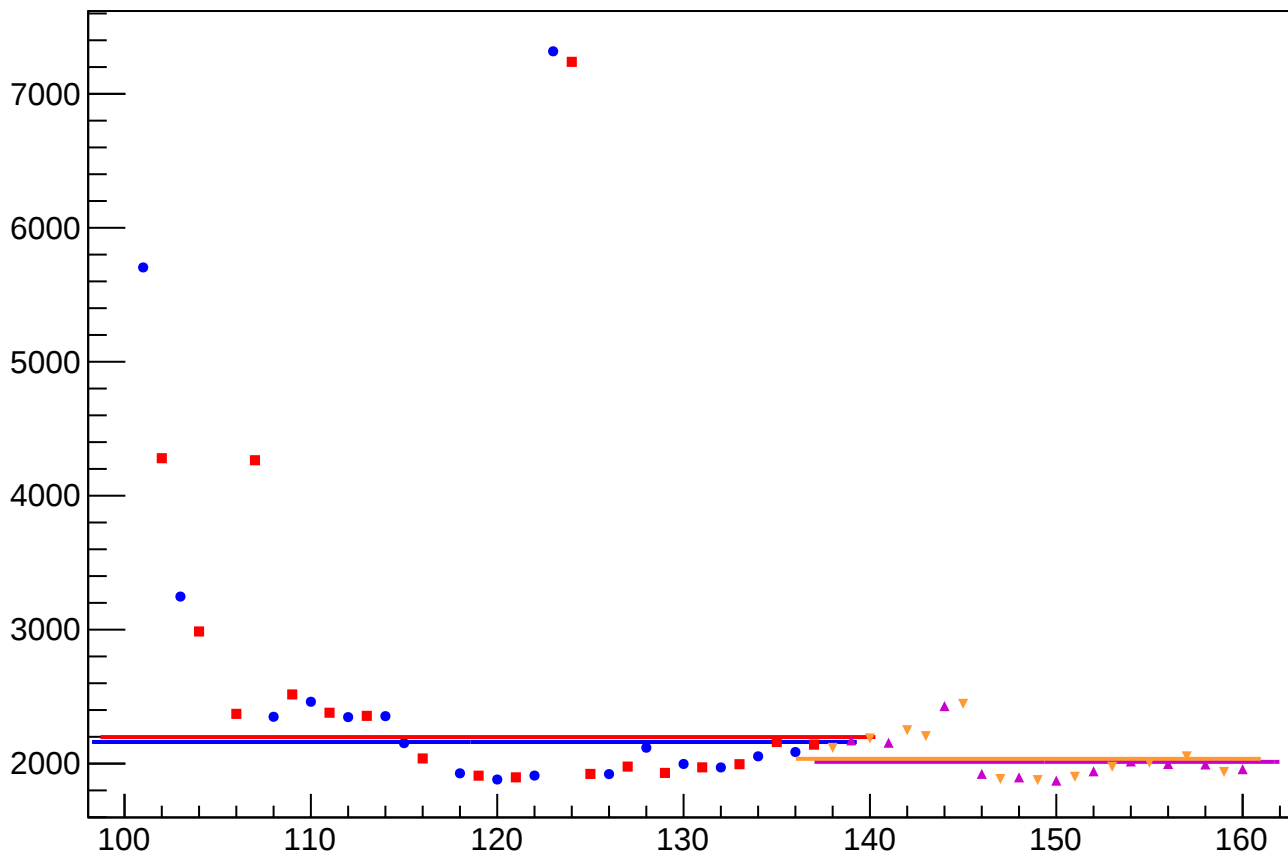
Right: 2138.530 $\pm$ 606.010  $\chi^2/\text{NDF}$ : 35.7/34

In: 2369.340 $\pm$ 529.550  $\chi^2/\text{NDF}$ : 35.8/27

Out: 2336.140 $\pm$ 532.102  $\chi^2/\text{NDF}$ : 32.4/29

All: 2352.819 $\pm$ 375.347  $\chi^2/\text{NDF}$ : 68.2/57

# asym\_at1\_avg\_rms vs Slug, Sign Corrected



Right In: 2161.418 $\pm$ 0.607  $\chi^2$ /NDF: 711253.3/16

Left Out: 2035.879 $\pm$ 0.481  $\chi^2$ /NDF:104752.4/11

Right Out: 2198.187 $\pm$ 0.605  $\chi^2$ /NDF: 733873.5/17

Left In: 2013.017 $\pm$ 0.476  $\chi^2$ /NDF:88676.6/10

Left: 2024.328 $\pm$ 0.338  $\chi^2$ /NDF: 194572.2/22

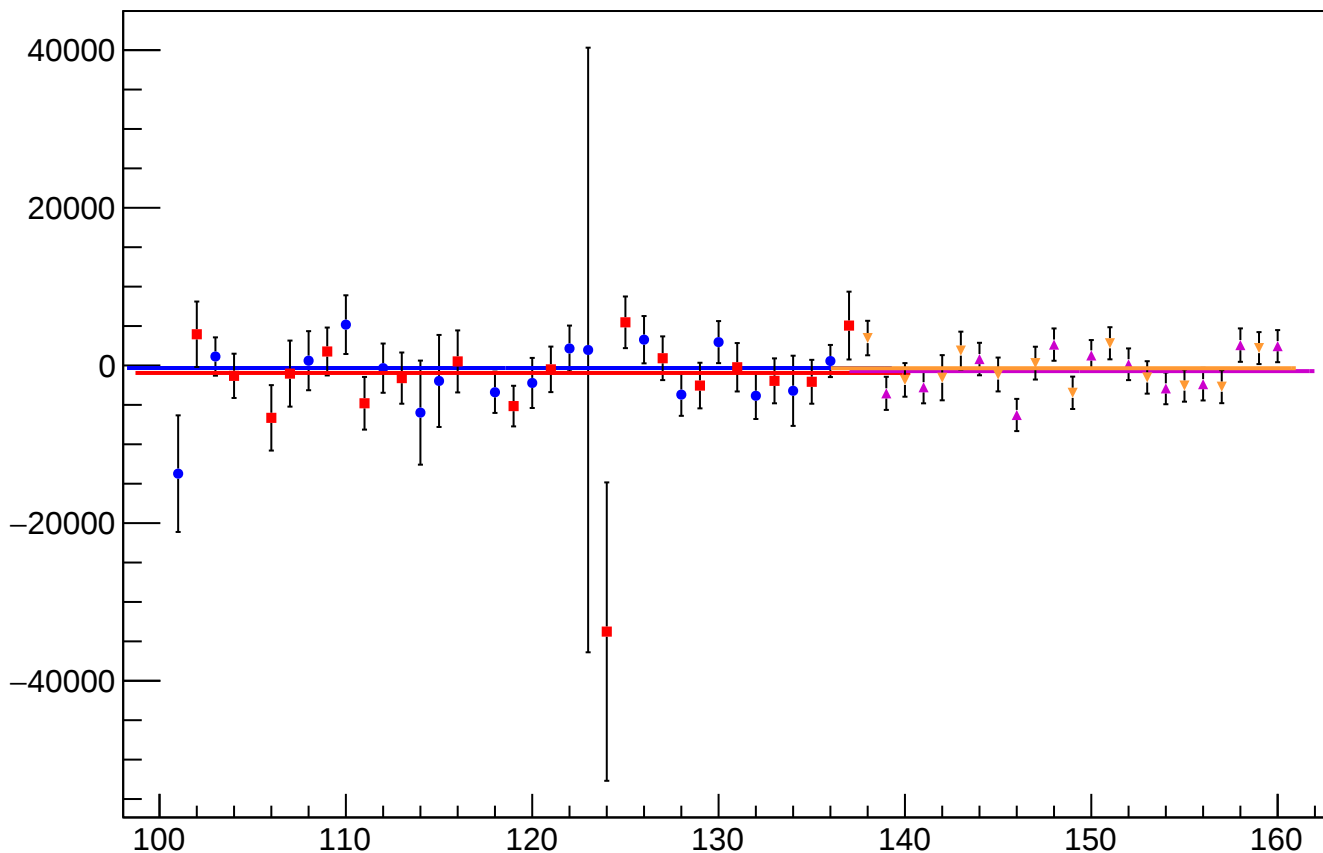
Right: 2179.883 $\pm$ 0.429  $\chi^2$ /NDF: 1446967.4/34

In: 2069.428 $\pm$ 0.374  $\chi^2$ /NDF:836940.0/27

Out: 2098.719 $\pm$ 0.376  $\chi^2$ /NDF:882779.0/29

All: 2084.003 $\pm$ 0.265  $\chi^2$ /NDF: 1722763.8/57

# dit\_asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -323.738+/-779.509  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: -351.063+/-620.593  $\chi^2/\text{NDF}$ :13.9/11

Right Out: -951.303+/-770.284  $\chi^2/\text{NDF}$ : 18.2/17

Left In: -718.902+/-616.170  $\chi^2/\text{NDF}$ :21.4/10

Left: -536.298+/-437.253  $\chi^2/\text{NDF}$ : 35.4/22

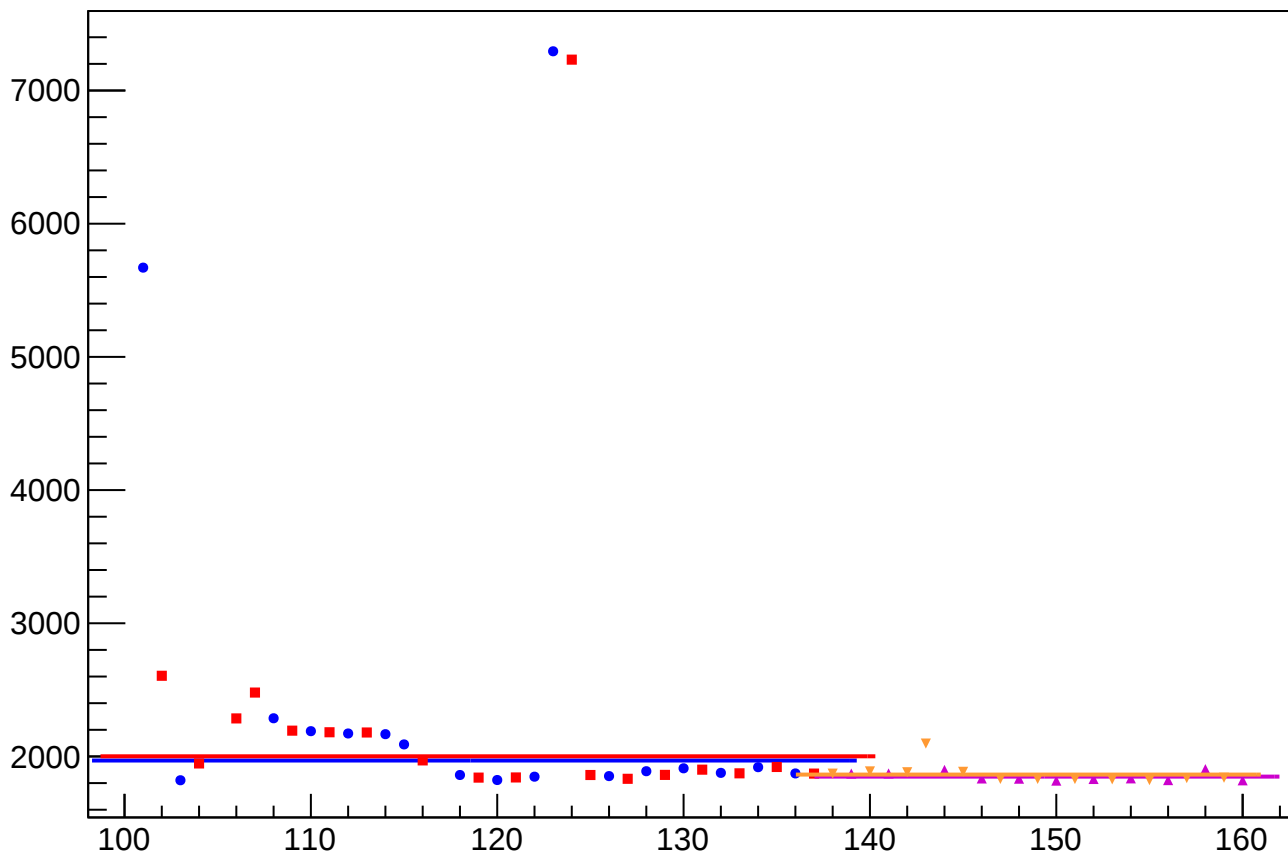
Right: -641.256+/-547.905  $\chi^2/\text{NDF}$ : 34.3/34

In: -566.942+/-483.390  $\chi^2/\text{NDF}$ :37.3/27

Out: -587.322+/-483.263  $\chi^2/\text{NDF}$ :32.4/29

All: -577.135+/-341.763  $\chi^2/\text{NDF}$ : 69.7/57

# dit\_asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 1969.494+/-0.551  $\chi^2/\text{NDF}$ : 602810.5/16

Left Out: 1863.873+/-0.439  $\chi^2/\text{NDF}$ : 22941.1/11

Right Out: 2001.177+/-0.545  $\chi^2/\text{NDF}$ : 290624.5/17

Left In: 1848.663+/-0.436  $\chi^2/\text{NDF}$ : 4740.6/10

Left: 1856.213+/-0.309  $\chi^2/\text{NDF}$ : 28286.8/22

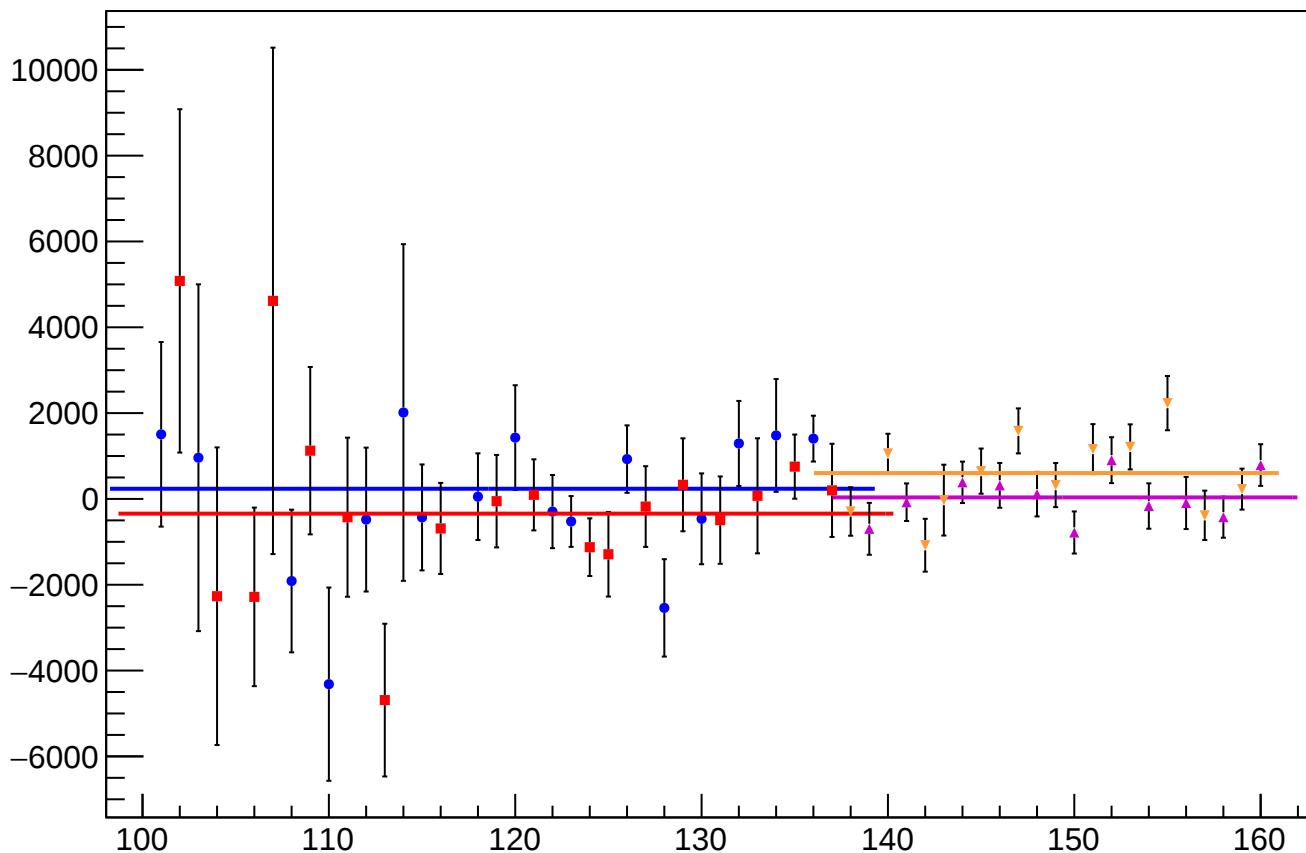
Right: 1985.524+/-0.387  $\chi^2/\text{NDF}$ : 895106.7/34

In: 1895.129+/-0.342  $\chi^2/\text{NDF}$ : 637127.2/27

Out: 1917.917+/-0.342  $\chi^2/\text{NDF}$ : 352100.3/29

All: 1906.526+/-0.242  $\chi^2/\text{NDF}$ : 991450.7/57

asym\_at1\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 236.864 $\pm$ 248.604  $\chi^2/\text{NDF}$ : 23.9/16

Left Out: 602.820 $\pm$ 159.075  $\chi^2/\text{NDF}$ : 27.8/11

Right Out: -342.796 $\pm$ 268.580  $\chi^2/\text{NDF}$ : 15.9/17

Left In: 34.962 $\pm$ 154.016  $\chi^2/\text{NDF}$ : 11.3/10

Left: 309.719 $\pm$ 110.651  $\chi^2/\text{NDF}$ : 45.7/22

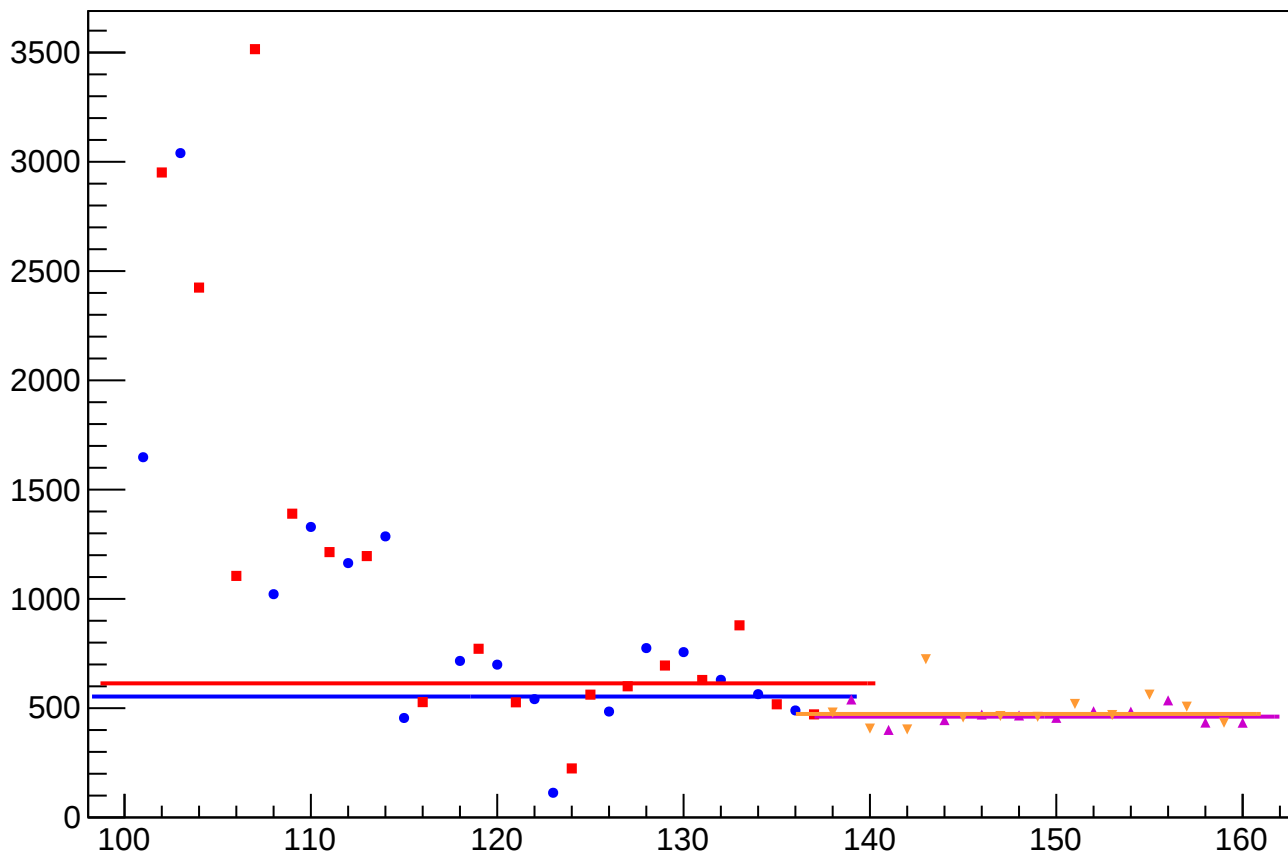
Right: -30.610 $\pm$ 182.443  $\chi^2/\text{NDF}$ : 42.3/34

In: 90.961 $\pm$ 130.927  $\chi^2/\text{NDF}$ : 35.6/27

Out: 357.247 $\pm$ 136.869  $\chi^2/\text{NDF}$ : 52.9/29

All: 218.198 $\pm$ 94.610  $\chi^2/\text{NDF}$ : 90.5/57

asym\_at1\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 553.280+/-0.176  $\chi^2/\text{NDF}$ : 3412747.4/16

Left Out: 473.573+/-0.112  $\chi^2/\text{NDF}$ : 329941.4/11

Right Out: 613.577+/-0.190  $\chi^2/\text{NDF}$ : 3476374.3/17

Left In: 461.267+/-0.109  $\chi^2/\text{NDF}$ : 126461.9/10

Left: 467.221+/-0.078  $\chi^2/\text{NDF}$ : 462580.9/22

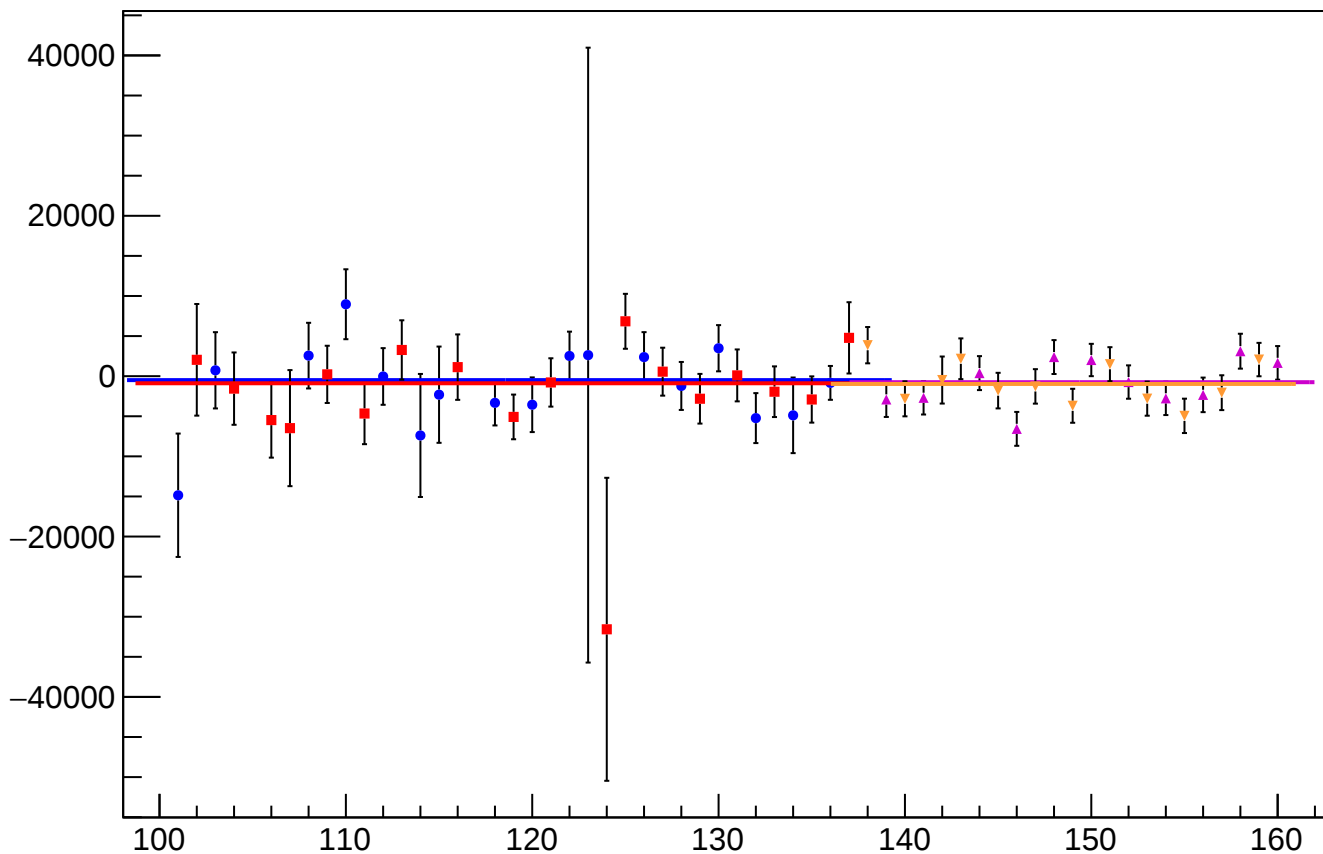
Right: 581.103+/-0.129  $\chi^2/\text{NDF}$ : 6943410.9/34

In: 486.787+/-0.093  $\chi^2/\text{NDF}$ : 3737195.8/27

Out: 509.931+/-0.097  $\chi^2/\text{NDF}$ : 4208638.8/29

All: 497.846+/-0.067  $\chi^2/\text{NDF}$ : 7975695.9/57

# asym\_at1\_dd\_mean vs Slug, Sign Corrected



Right In: -491.940+/-867.988  $\chi^2/\text{NDF}$ : 18.6/16

Left Out: -969.897+/-642.599  $\chi^2/\text{NDF}$ :16.6/11

Right Out: -884.654+/-869.140  $\chi^2/\text{NDF}$ : 17.3/17

Left In: -750.835+/-636.068  $\chi^2/\text{NDF}$ :19.7/10

Left: -859.247+/-452.059  $\chi^2/\text{NDF}$ : 36.4/22

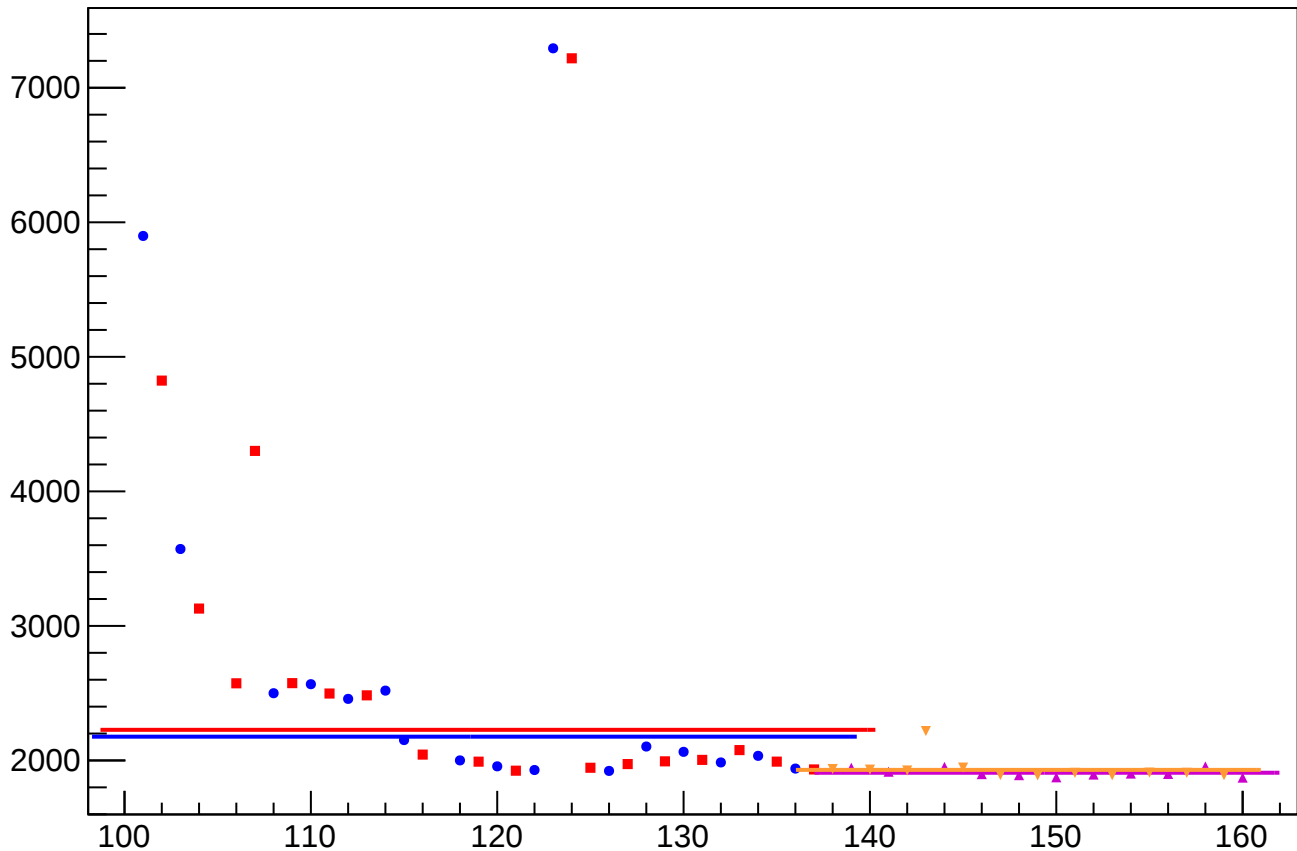
Right: -688.036+/-614.167  $\chi^2/\text{NDF}$ : 35.9/34

In: -660.381+/-513.057  $\chi^2/\text{NDF}$ :38.4/27

Out: -939.769+/-516.709  $\chi^2/\text{NDF}$ :33.8/29

All: -799.084+/-364.070  $\chi^2/\text{NDF}$ : 72.4/57

# asym\_at1\_dd\_rms vs Slug, Sign Corrected



Right In: 2176.746 $\pm$ 0.614  $\chi^2$ /NDF: 802677.9/16

Left Out: 1929.878 $\pm$ 0.454  $\chi^2$ /NDF: 29376.9/11

Right Out: 2227.688 $\pm$ 0.615  $\chi^2$ /NDF: 825665.5/17

Left In: 1908.617 $\pm$ 0.450  $\chi^2$ /NDF: 3850.3/10

Left: 1919.139 $\pm$ 0.320  $\chi^2$ /NDF: 34333.0/22

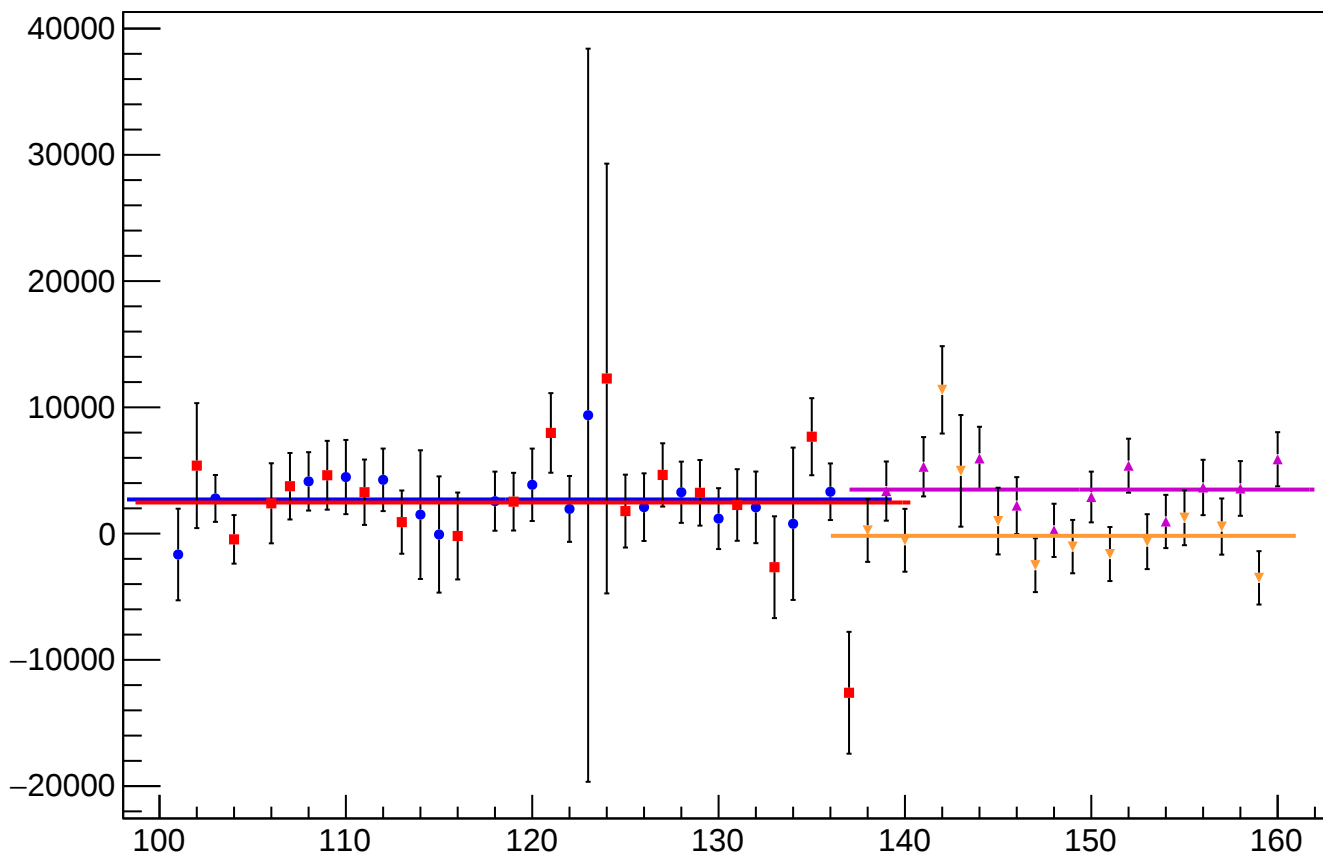
Right: 2202.183 $\pm$ 0.434  $\chi^2$ /NDF: 1631783.3/34

In: 2002.297 $\pm$ 0.363  $\chi^2$ /NDF: 930697.9/27

Out: 2035.135 $\pm$ 0.365  $\chi^2$ /NDF: 1006867.1/29

All: 2018.600 $\pm$ 0.257  $\chi^2$ /NDF: 1941632.5/57

# dit\_asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 2703.508 $\pm$ 673.898  $\chi^2$ /NDF: 4.0/16

Left Out: -176.810 $\pm$ 688.269  $\chi^2$ /NDF:17.6/11

Right Out: 2464.583 $\pm$ 683.276  $\chi^2$ /NDF: 23.2/17

Left In: 3486.308 $\pm$ 663.019  $\chi^2$ /NDF:7.8/10

Left: 1723.173 $\pm$ 477.502  $\chi^2$ /NDF: 40.1/22

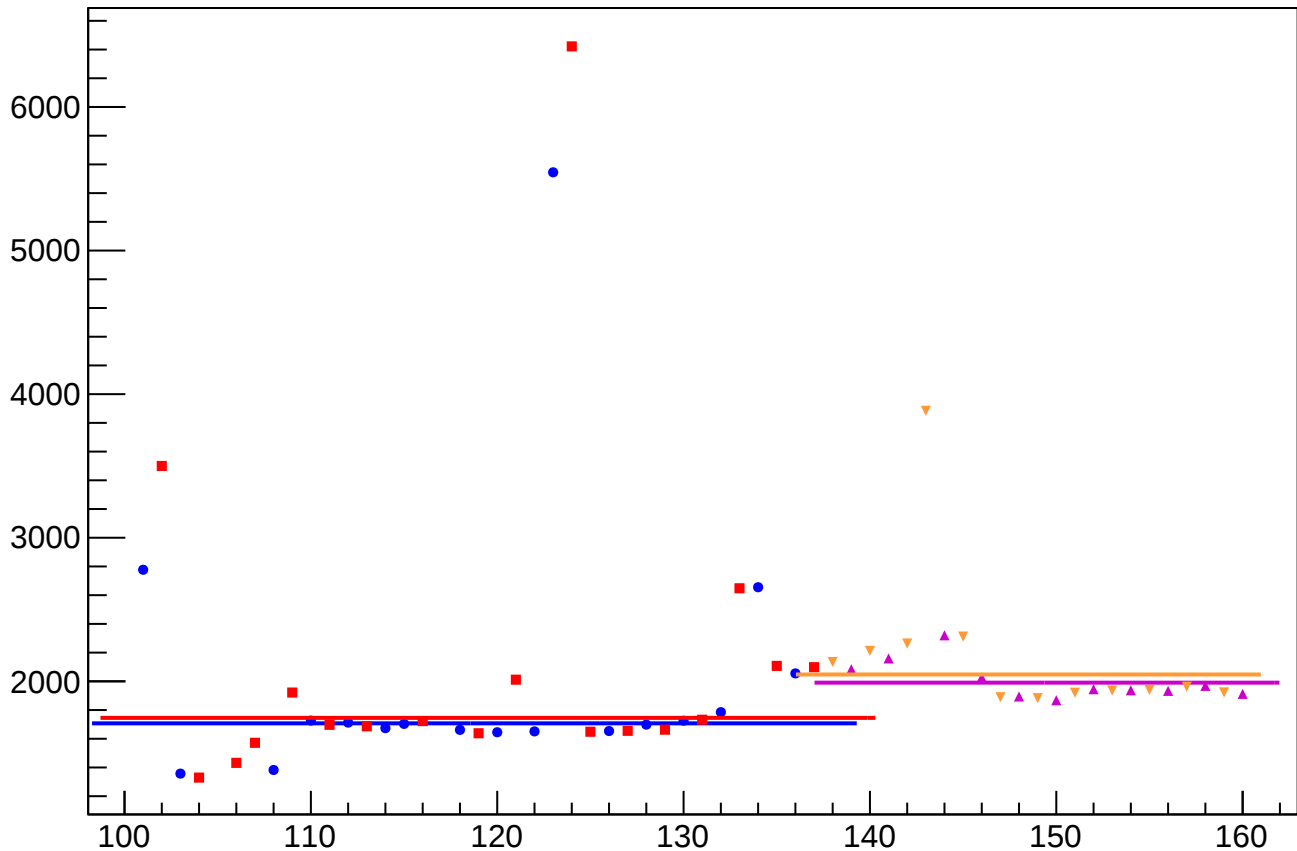
Right: 2585.697 $\pm$ 479.799  $\chi^2$ /NDF: 27.3/34

In: 3101.277 $\pm$ 472.625  $\chi^2$ /NDF:12.5/27

Out: 1153.502 $\pm$ 484.905  $\chi^2$ /NDF:48.2/29

All: 2152.365 $\pm$ 338.454  $\chi^2$ /NDF: 69.0/57

# dit\_asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In:  $1707.386 \pm 0.477$   $\chi^2/\text{NDF}: 422166.4/16$

Left Out:  $2047.587 \pm 0.487$   $\chi^2/\text{NDF}: 434323.5/11$

Right Out:  $1745.551 \pm 0.483$   $\chi^2/\text{NDF}: 699240.7/17$

Left In:  $1990.713 \pm 0.469$   $\chi^2/\text{NDF}: 66691.6/10$

Left:  $2018.087 \pm 0.338$   $\chi^2/\text{NDF}: 508098.5/22$

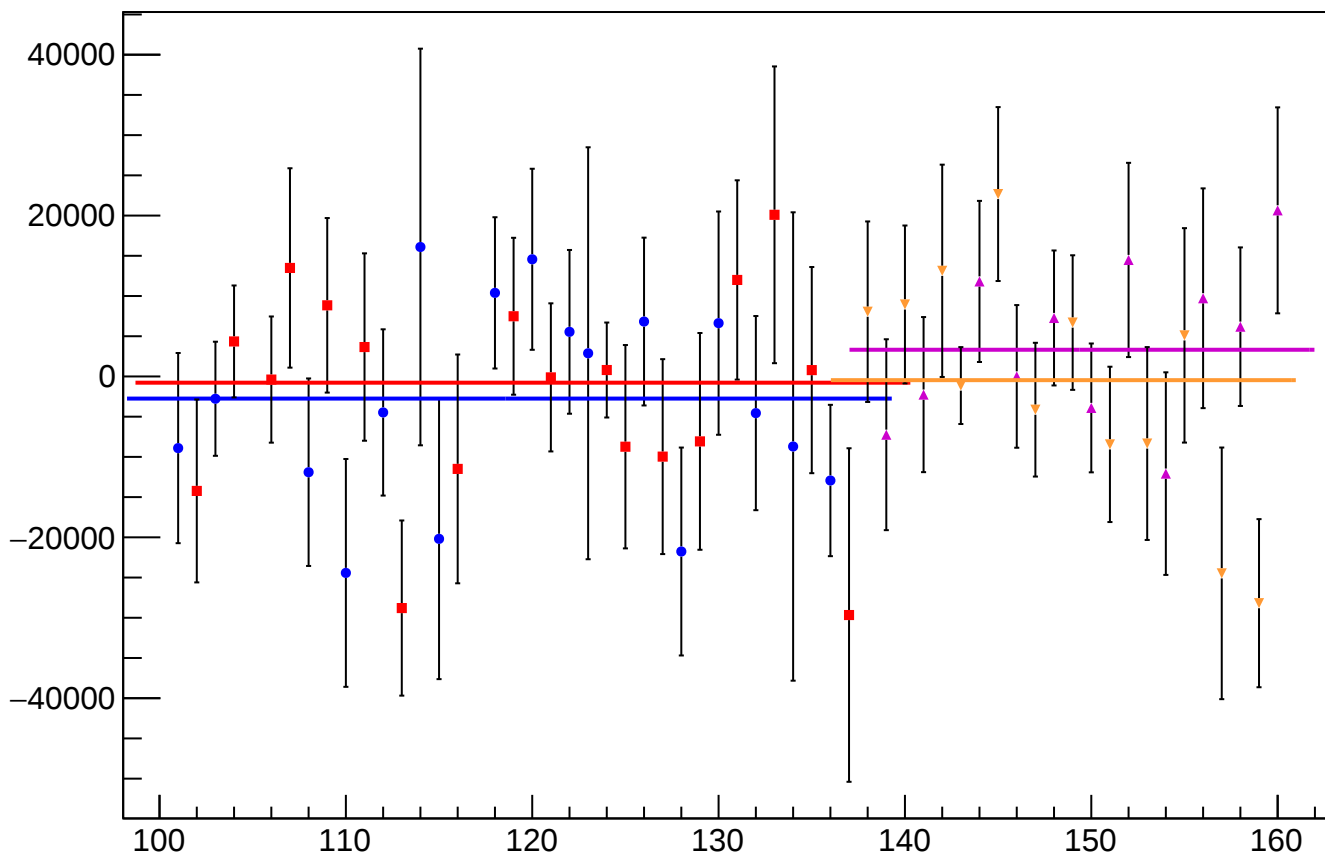
Right:  $1726.210 \pm 0.339$   $\chi^2/\text{NDF}: 1124571.0/34$

In:  $1851.355 \pm 0.334$   $\chi^2/\text{NDF}: 668495.8/27$

Out:  $1895.428 \pm 0.343$   $\chi^2/\text{NDF}: 1327594.7/29$

All:  $1872.829 \pm 0.239$   $\chi^2/\text{NDF}: 2004564.6/57$

asym\_at2\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -2750.725 $\pm$ 2842.399  $\chi^2/\text{NDF}$ : 14.6/16

Left Out: -460.966 $\pm$ 2656.482  $\chi^2/\text{NDF}$ : 18.8/11

Right Out: -774.921 $\pm$ 2440.788  $\chi^2/\text{NDF}$ : 17.7/17

Left In: 3319.312 $\pm$ 3082.200  $\chi^2/\text{NDF}$ : 7.5/10

Left: 1150.271 $\pm$ 2012.235  $\chi^2/\text{NDF}$ : 27.1/22

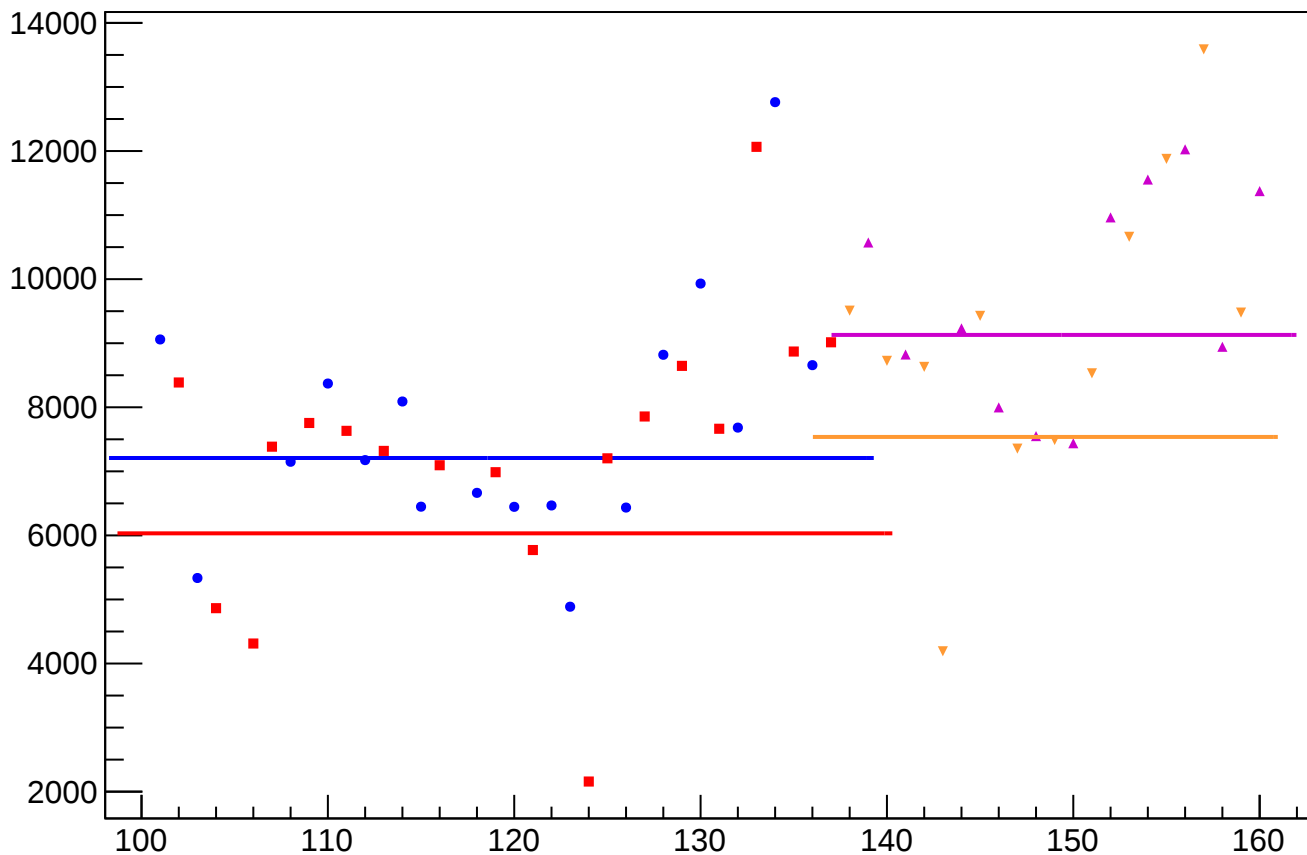
Right: -1613.491 $\pm$ 1851.753  $\chi^2/\text{NDF}$ : 32.6/34

In: 39.008 $\pm$ 2089.520  $\chi^2/\text{NDF}$ : 24.2/27

Out: -631.205 $\pm$ 1797.322  $\chi^2/\text{NDF}$ : 36.5/29

All: -346.200 $\pm$ 1362.595  $\chi^2/\text{NDF}$ : 60.8/57

asym\_at2\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 7208.346 $\pm$ 2.010  $\chi^2$ /NDF: 493749.9/16

Left Out: 7536.970 $\pm$ 1.878  $\chi^2$ /NDF: 1884218.5/11

Right Out: 6032.193 $\pm$ 1.726  $\chi^2$ /NDF: 1797562.8/17

Left In: 9129.544 $\pm$ 2.179  $\chi^2$ /NDF: 496917.7/10

Left: 8215.760 $\pm$ 1.423  $\chi^2$ /NDF: 2687510.0/22

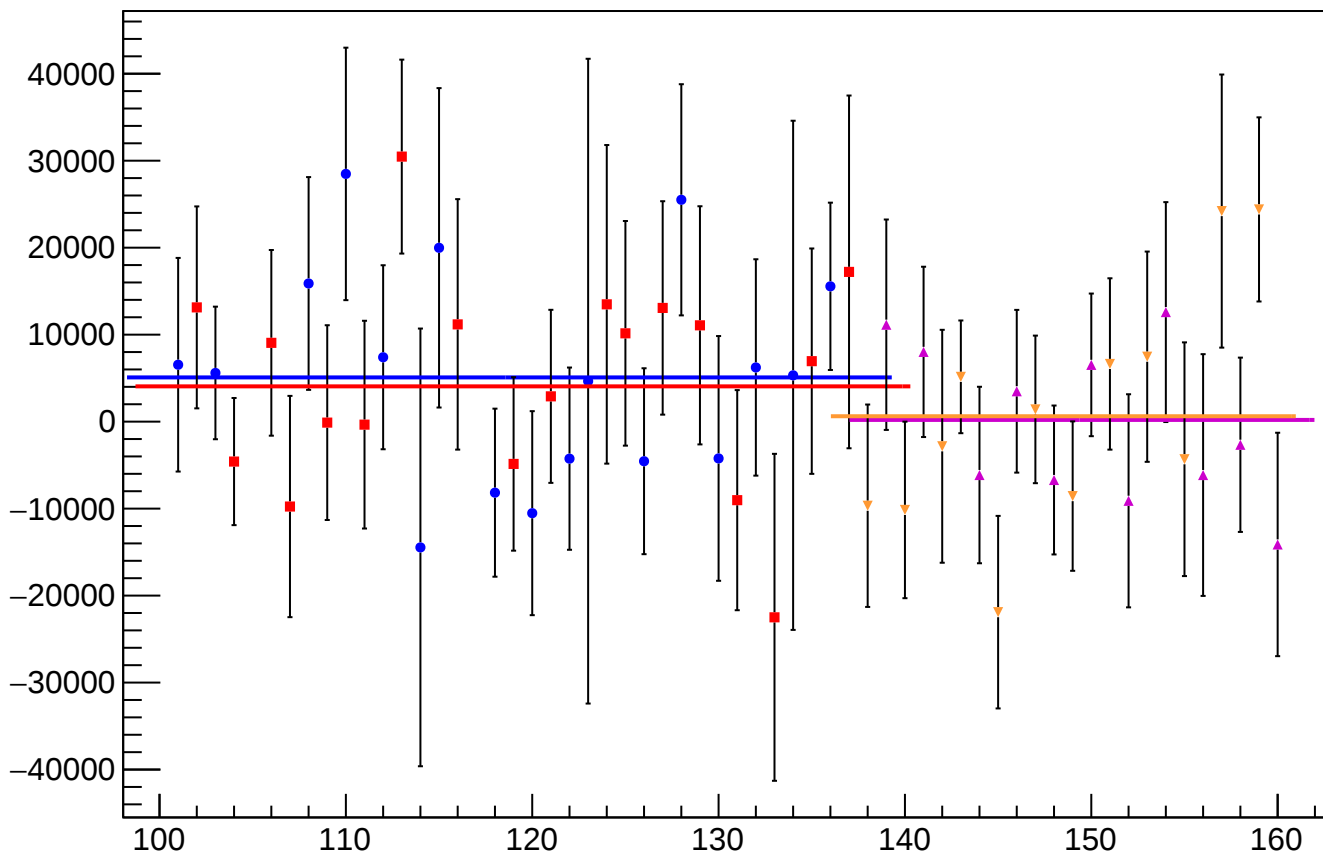
Right: 6531.375 $\pm$ 1.309  $\chi^2$ /NDF: 2488415.8/34

In: 8091.311 $\pm$ 1.478  $\chi^2$ /NDF: 1410596.3/27

Out: 6721.020 $\pm$ 1.271  $\chi^2$ /NDF: 4029759.8/29

All: 7303.731 $\pm$ 0.964  $\chi^2$ /NDF: 5934717.7/57

# asym\_at2\_avg\_mean vs Slug, Sign Corrected



Right In: 5084.628 $\pm$ 2955.245  $\chi^2$ /NDF: 14.0/16

Left Out: 620.306 $\pm$ 2913.691  $\chi^2$ /NDF:15.9/11

Right Out: 4055.589 $\pm$ 2800.076  $\chi^2$ /NDF: 15.2/17

Left In: 197.250 $\pm$ 3145.732  $\chi^2$ /NDF:6.3/10

Left: 424.955 $\pm$ 2137.621  $\chi^2$ /NDF: 22.2/22

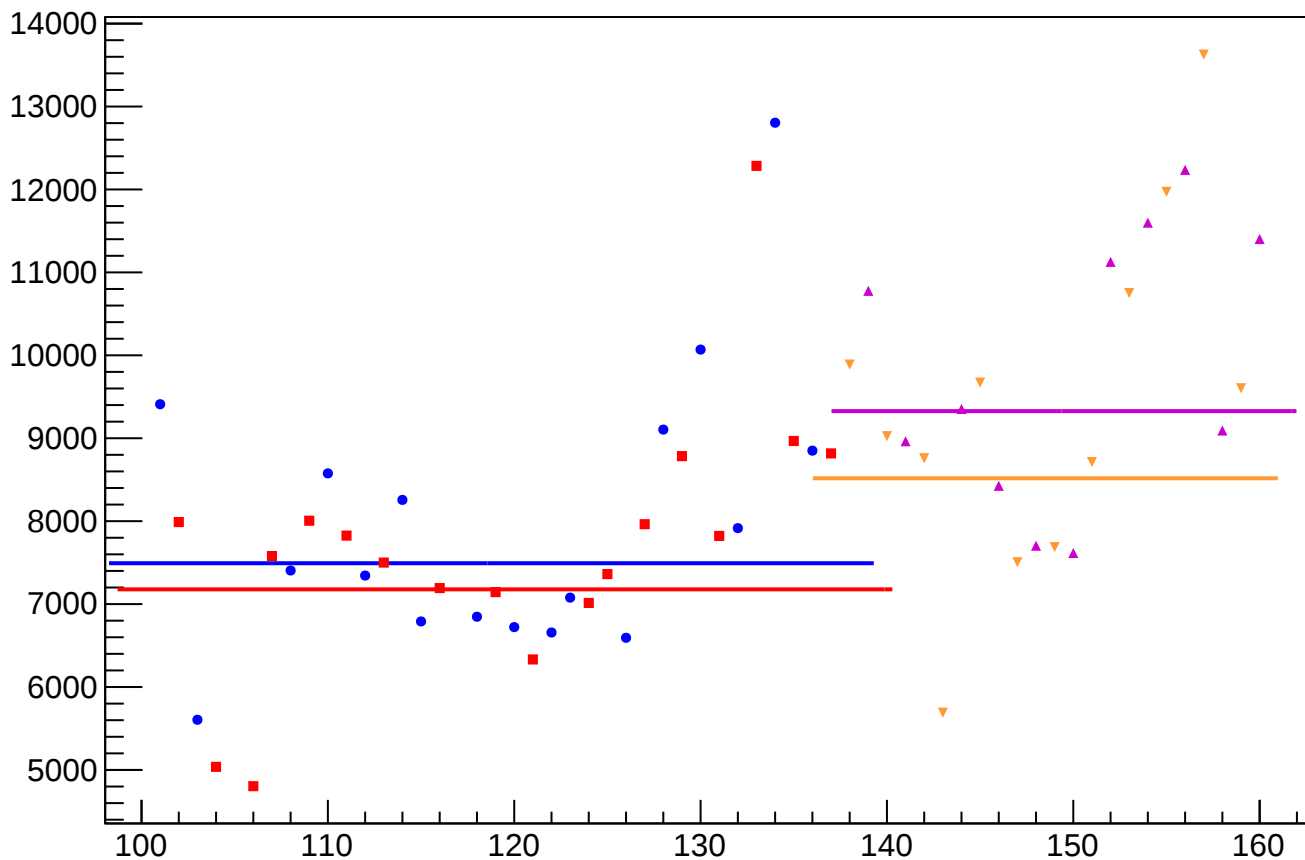
Right: 4542.385 $\pm$ 2032.595  $\chi^2$ /NDF: 29.2/34

In: 2793.386 $\pm$ 2153.869  $\chi^2$ /NDF:21.5/27

Out: 2406.229 $\pm$ 2018.924  $\chi^2$ /NDF:31.8/29

All: 2587.301 $\pm$ 1472.992  $\chi^2$ /NDF: 53.3/57

# asym\_at2\_avg\_rms vs Slug, Sign Corrected



Right In: 7492.918 $\pm$ 2.090  $\chi^2$ /NDF: 437084.4/16

Left Out: 8517.281 $\pm$ 2.060  $\chi^2$ /NDF: 917176.2/11

Right Out: 7177.811 $\pm$ 1.980  $\chi^2$ /NDF: 555902.2/17

Left In: 9327.298 $\pm$ 2.224  $\chi^2$ /NDF: 457803.7/10

Left: 8891.316 $\pm$ 1.512  $\chi^2$ /NDF: 1446355.4/22

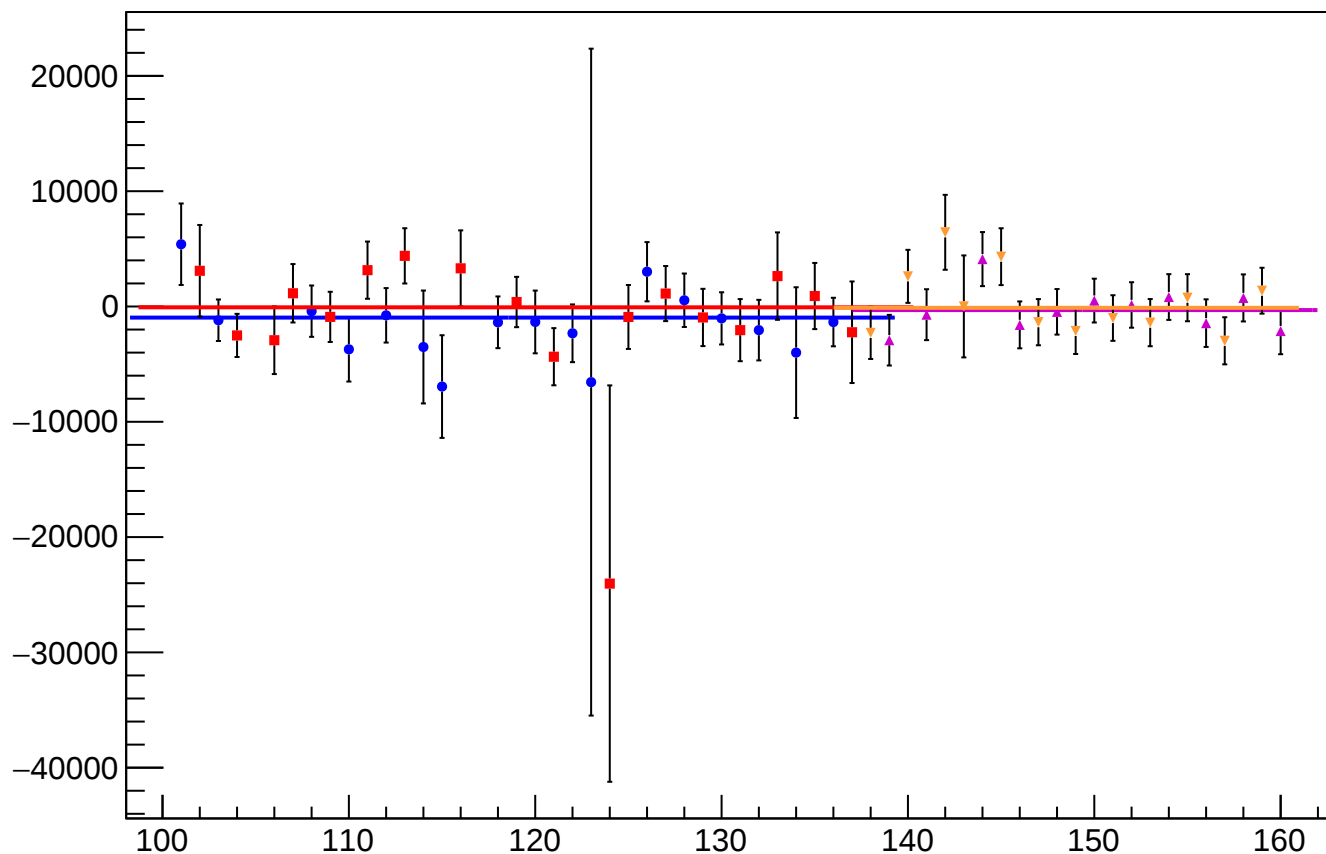
Right: 7326.859 $\pm$ 1.437  $\chi^2$ /NDF: 1004970.1/34

In: 8352.866 $\pm$ 1.523  $\chi^2$ /NDF: 1256154.0/27

Out: 7820.835 $\pm$ 1.427  $\chi^2$ /NDF: 1692845.8/29

All: 8069.649 $\pm$ 1.042  $\chi^2$ /NDF: 3013961.8/57

# dit\_asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: -962.541 $\pm$ 643.025  $\chi^2$ /NDF: 10.1/16

Left Out: -114.569 $\pm$ 642.600  $\chi^2$ /NDF:14.3/11

Right Out: -71.322 $\pm$ 634.426  $\chi^2$ /NDF: 16.7/17

Left In: -311.076 $\pm$ 619.843  $\chi^2$ /NDF:7.4/10

Left: -216.364 $\pm$ 446.124  $\chi^2$ /NDF: 21.7/22

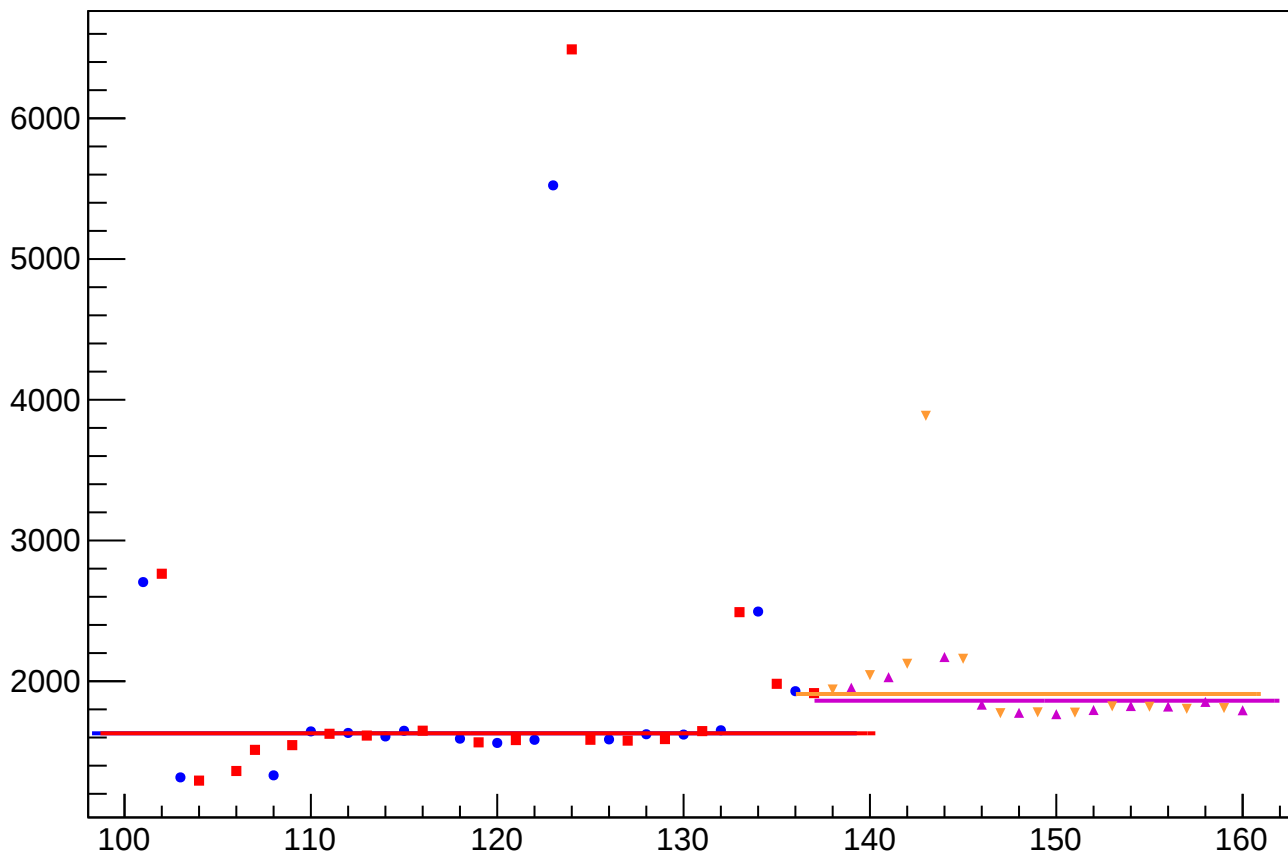
Right: -510.933 $\pm$ 451.616  $\chi^2$ /NDF: 27.8/34

In: -624.854 $\pm$ 446.266  $\chi^2$ /NDF:18.0/27

Out: -92.668 $\pm$ 451.469  $\chi^2$ /NDF:31.0/29

All: -361.846 $\pm$ 317.381  $\chi^2$ /NDF: 49.7/57

# dit\_asym\_at2\_dd\_rms vs Slug, Sign Corrected



Right In:  $1629.954 \pm 0.455$   $\chi^2/\text{NDF}: 408151.7/16$

Left Out:  $1909.365 \pm 0.454$   $\chi^2/\text{NDF}: 480933.2/11$

Right Out:  $1629.941 \pm 0.449$   $\chi^2/\text{NDF}: 557457.4/17$

Left In:  $1861.528 \pm 0.438$   $\chi^2/\text{NDF}: 65378.1/10$

Left:  $1884.584 \pm 0.315$   $\chi^2/\text{NDF}: 552052.8/22$

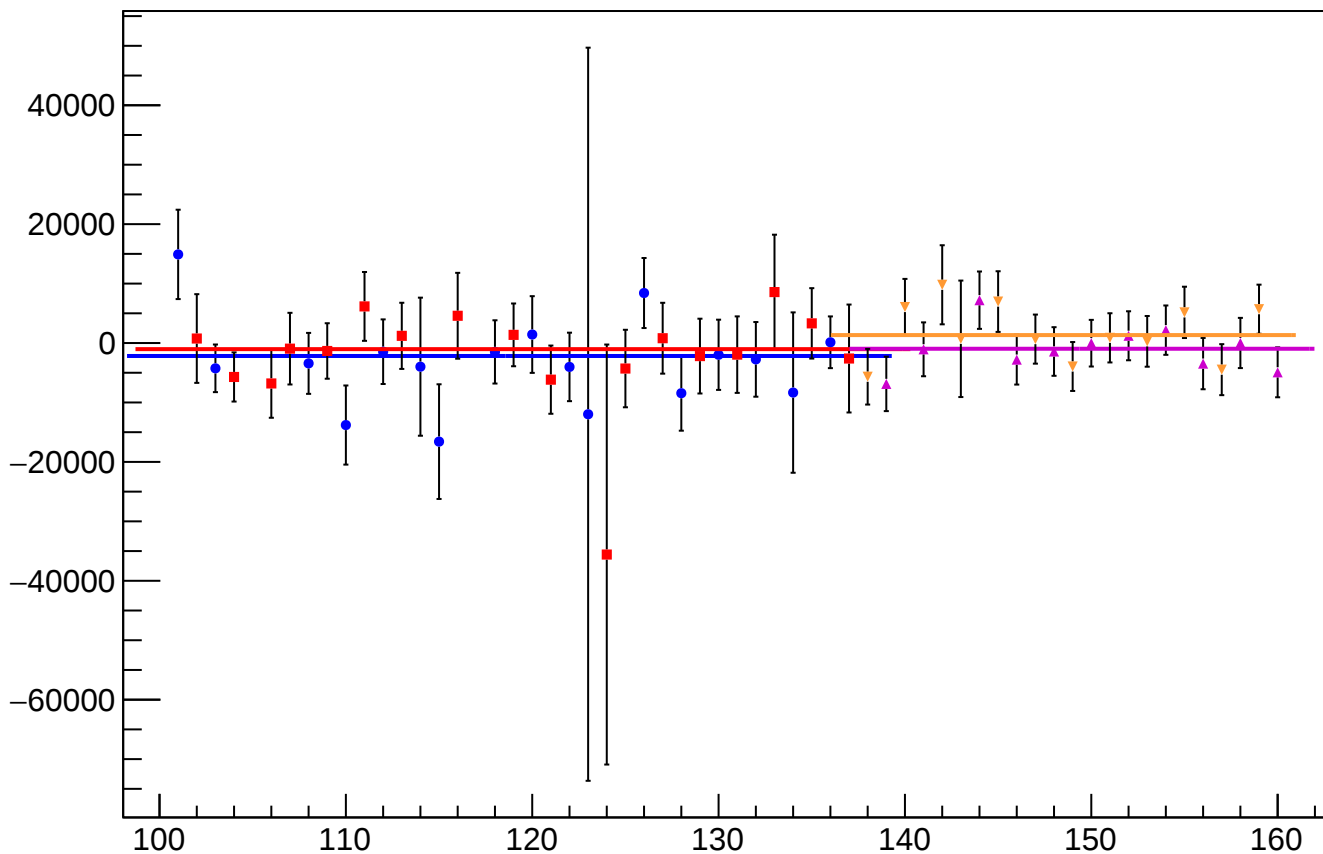
Right:  $1629.948 \pm 0.319$   $\chi^2/\text{NDF}: 965609.1/34$

In:  $1749.990 \pm 0.316$   $\chi^2/\text{NDF}: 607984.6/27$

Out:  $1767.864 \pm 0.319$   $\chi^2/\text{NDF}: 1229891.1/29$

All:  $1758.824 \pm 0.224$   $\chi^2/\text{NDF}: 1839461.4/57$

asym\_at2\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -2179.244+/-1493.026  $\chi^2/\text{NDF}$ : 16.0/16

Left Out: 1336.917+/-1336.966  $\chi^2/\text{NDF}$ : 11.6/11

Right Out: -1026.991+/-1442.331  $\chi^2/\text{NDF}$ : 8.6/17

Left In: -964.037+/-1286.453  $\chi^2/\text{NDF}$ : 6.9/10

Left: 142.153+/-927.003  $\chi^2/\text{NDF}$ : 20.0/22

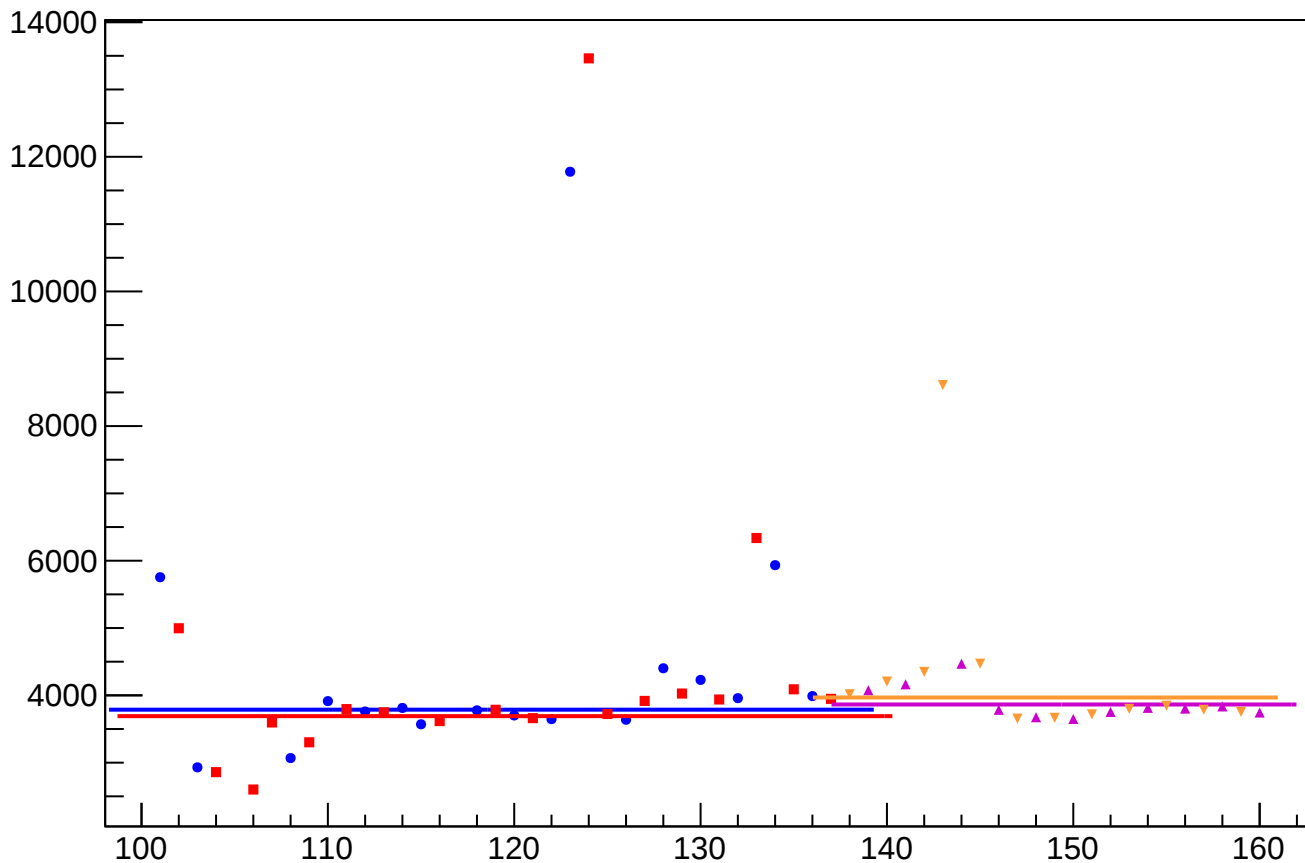
Right: -1583.224+/-1037.341  $\chi^2/\text{NDF}$ : 24.9/34

In: -1481.822+/-974.578  $\chi^2/\text{NDF}$ : 23.3/27

Out: 244.451+/-980.513  $\chi^2/\text{NDF}$ : 21.6/29

All: -623.925+/-691.220  $\chi^2/\text{NDF}$ : 46.4/57

asym\_at2\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 3787.301+/-1.056  $\chi^2/\text{NDF}$ : 392650.8/16

Left Out: 3967.998+/-0.945  $\chi^2/\text{NDF}$ : 523286.4/11

Right Out: 3691.246+/-1.020  $\chi^2/\text{NDF}$ : 555157.1/17

Left In: 3864.239+/-0.910  $\chi^2/\text{NDF}$ : 59358.2/10

Left: 3914.122+/-0.655  $\chi^2/\text{NDF}$ : 588899.3/22

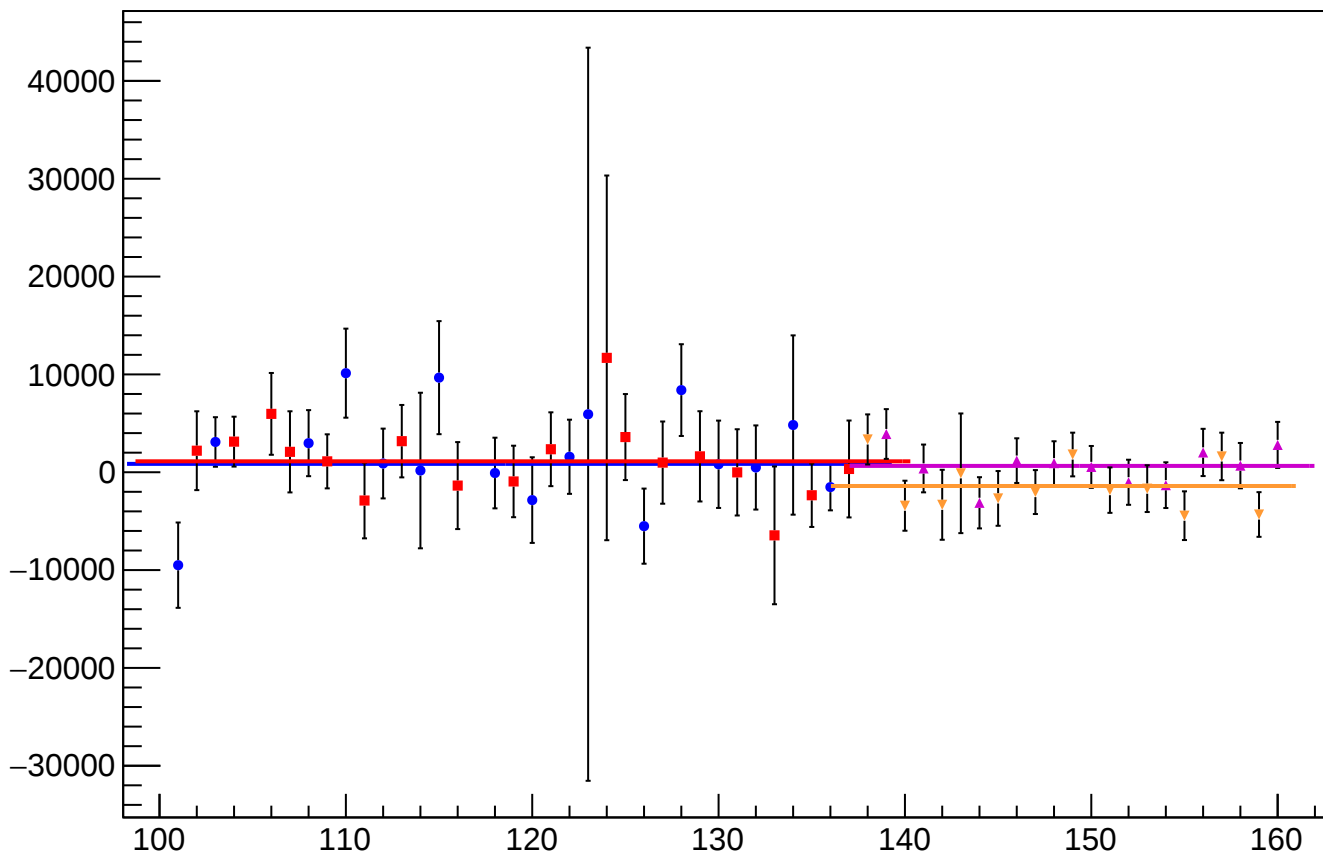
Right: 3737.614+/-0.734  $\chi^2/\text{NDF}$ : 952090.1/34

In: 3831.457+/-0.689  $\chi^2/\text{NDF}$ : 455057.0/27

Out: 3840.096+/-0.693  $\chi^2/\text{NDF}$ : 1118049.4/29

All: 3835.750+/-0.489  $\chi^2/\text{NDF}$ : 1573184.6/57

# asym\_at2\_dd\_mean vs Slug, Sign Corrected



Right In: 856.187 $\pm$ 964.743  $\chi^2$ /NDF: 20.7/16

Left Out: -1405.855 $\pm$ 741.119  $\chi^2$ /NDF: 11.5/11

Right Out: 1117.553 $\pm$ 927.195  $\chi^2$ /NDF: 7.3/17

Left In: 648.116 $\pm$ 709.245  $\chi^2$ /NDF: 6.2/10

Left: -333.752 $\pm$ 512.410  $\chi^2$ /NDF: 21.7/22

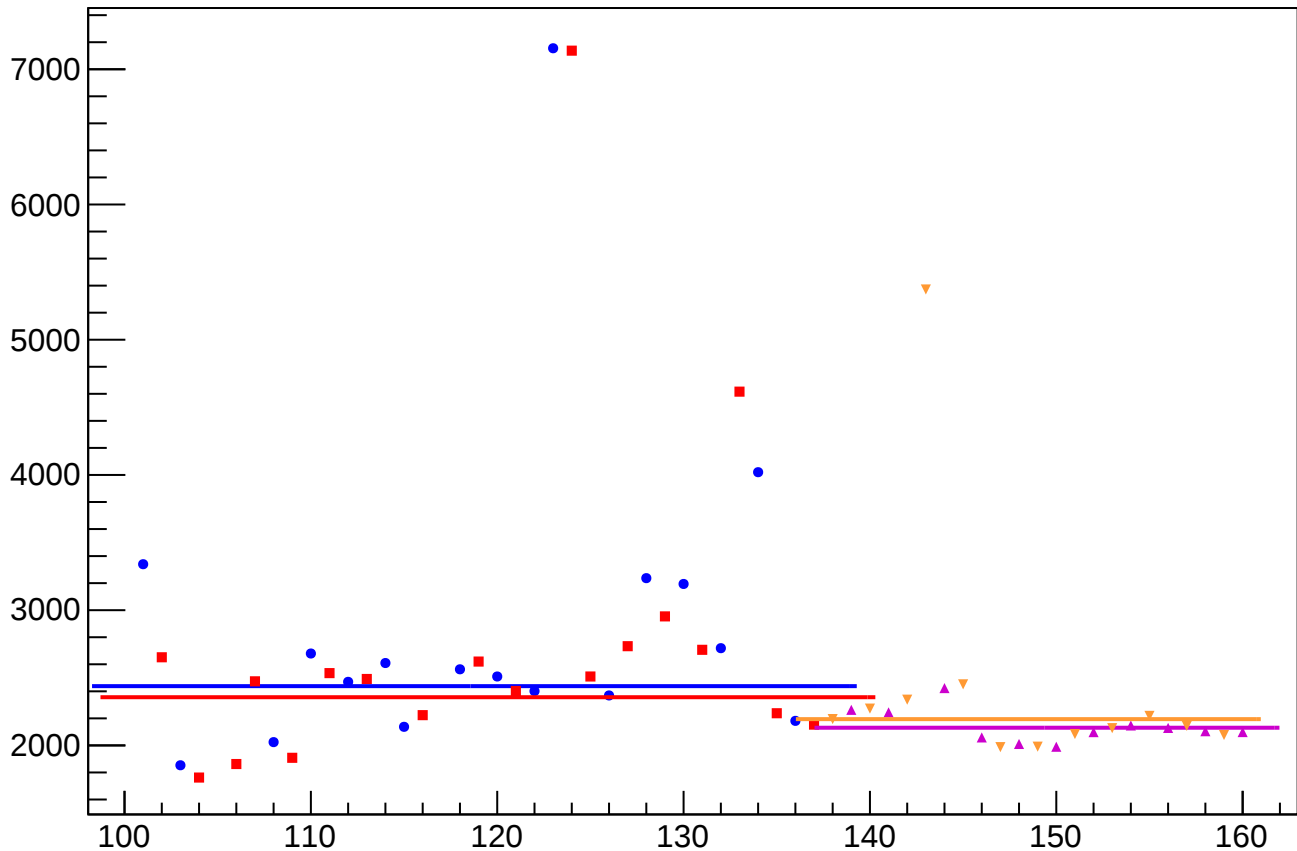
Right: 992.055 $\pm$ 668.506  $\chi^2$ /NDF: 28.0/34

In: 721.117 $\pm$ 571.439  $\chi^2$ /NDF: 26.9/27

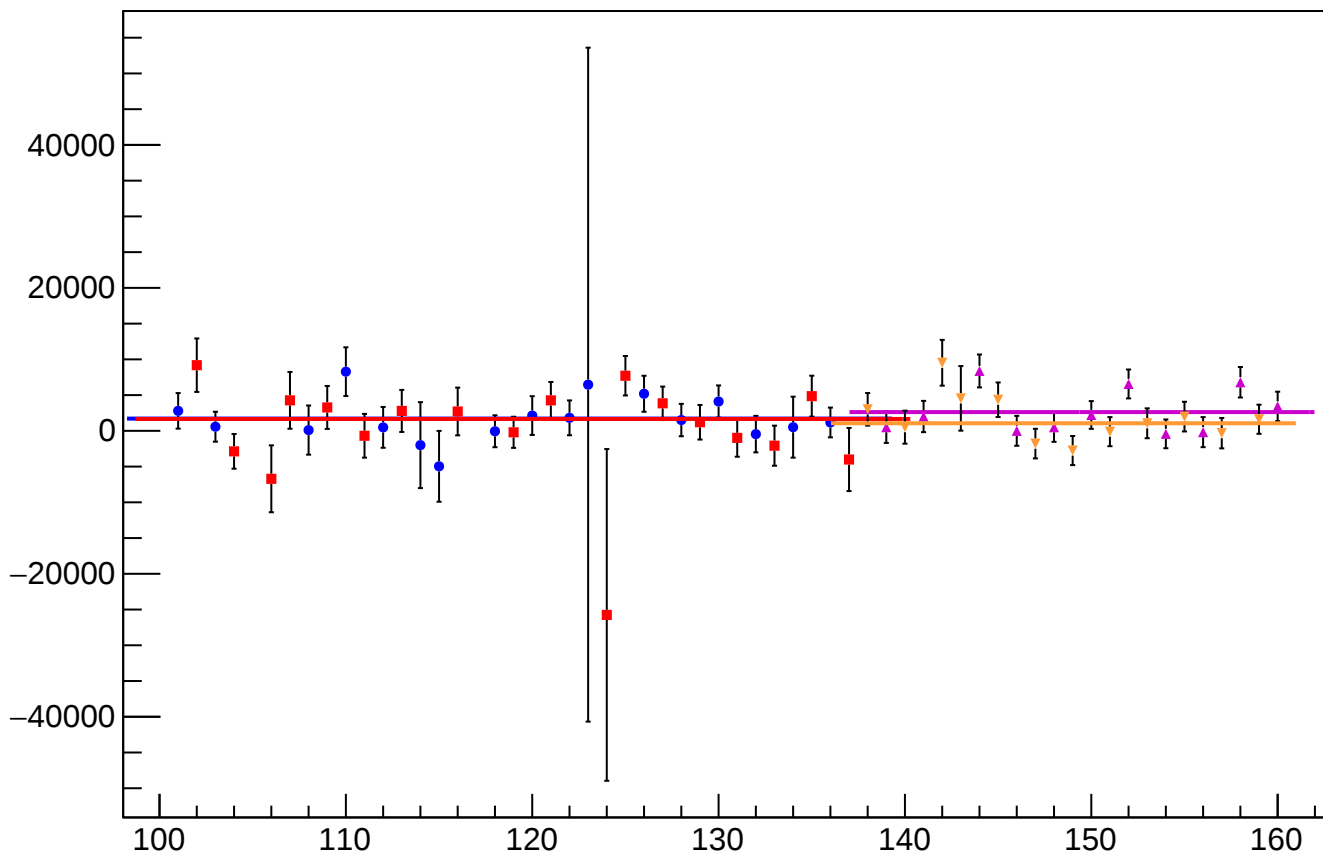
Out: -422.142 $\pm$ 578.911  $\chi^2$ /NDF: 23.3/29

All: 156.912 $\pm$ 406.684  $\chi^2$ /NDF: 52.1/57

# asym\_at2\_dd\_rms vs Slug, Sign Corrected



# dit\_asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 1712.566+/-667.149  $\chi^2/\text{NDF}$ : 11.4/16

Left Out: 1061.956+/-654.094  $\chi^2/\text{NDF}$ : 16.7/11

Right Out: 1665.369+/-695.701  $\chi^2/\text{NDF}$ : 26.8/17

Left In: 2621.993+/-631.041  $\chi^2/\text{NDF}$ : 21.8/10

Left: 1869.950+/-454.145  $\chi^2/\text{NDF}$ : 41.4/22

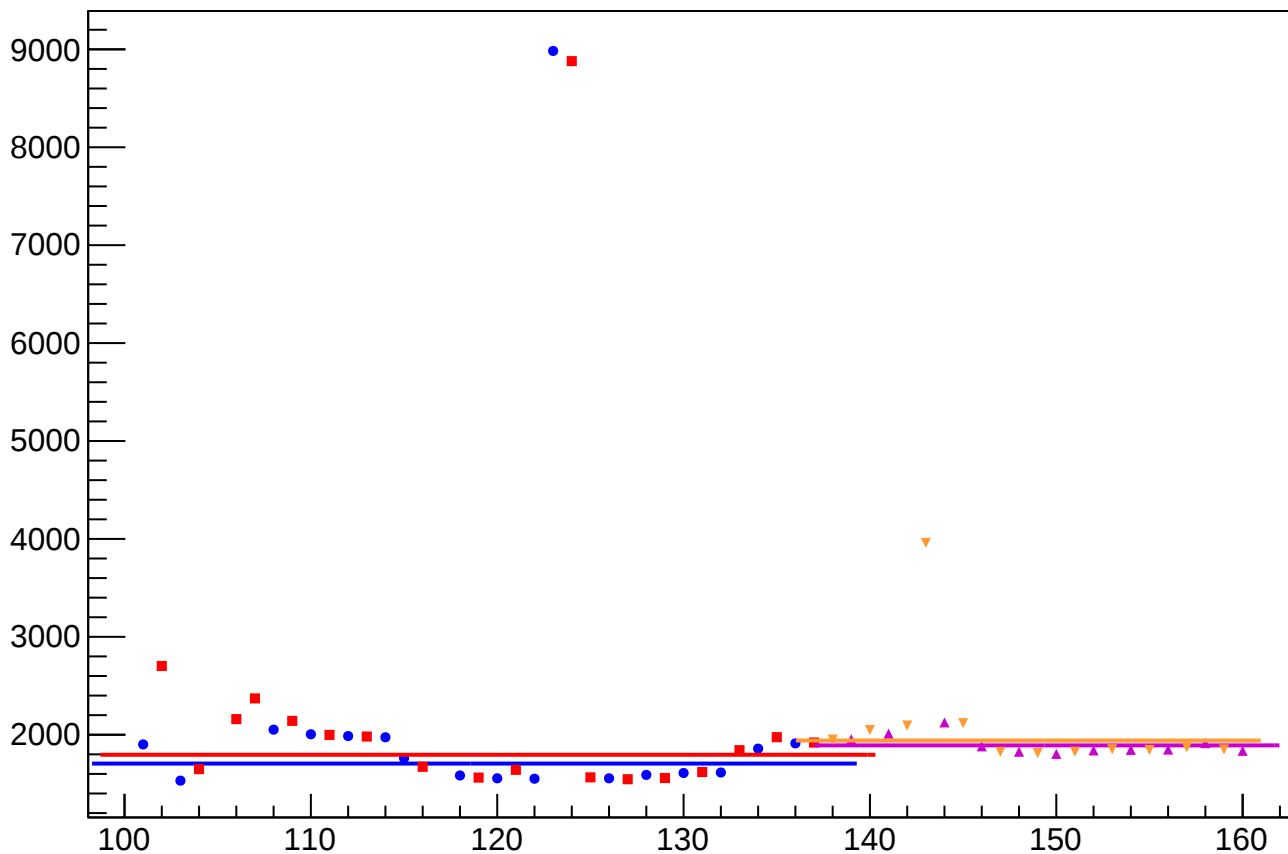
Right: 1689.956+/-481.523  $\chi^2/\text{NDF}$ : 38.2/34

In: 2192.556+/-458.447  $\chi^2/\text{NDF}$ : 34.1/27

Out: 1345.080+/-476.545  $\chi^2/\text{NDF}$ : 43.9/29

All: 1785.215+/-330.384  $\chi^2/\text{NDF}$ : 79.7/57

# dit\_asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 1705.624 $\pm$ 0.472  $\chi^2$ /NDF: 194174.2/16

Left Out: 1940.969 $\pm$ 0.463  $\chi^2$ /NDF: 453304.5/11

Right Out: 1795.574 $\pm$ 0.491  $\chi^2$ /NDF: 518805.1/17

Left In: 1891.399 $\pm$ 0.446  $\chi^2$ /NDF: 39353.5/10

Left: 1915.295 $\pm$ 0.321  $\chi^2$ /NDF: 498607.3/22

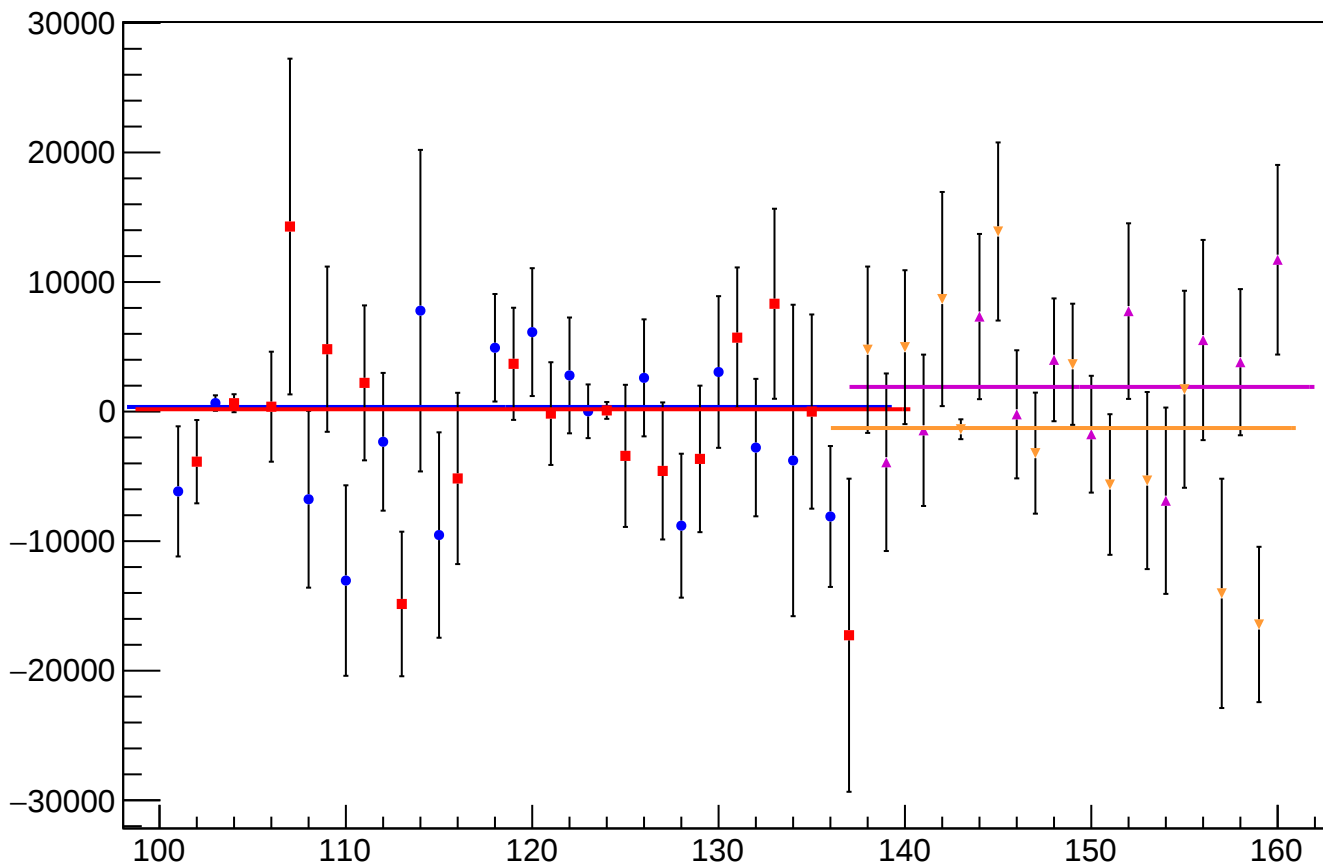
Right: 1748.814 $\pm$ 0.340  $\chi^2$ /NDF: 730436.4/34

In: 1803.674 $\pm$ 0.324  $\chi^2$ /NDF: 315378.0/27

Out: 1872.590 $\pm$ 0.337  $\chi^2$ /NDF: 1018584.5/29

All: 1836.834 $\pm$ 0.234  $\chi^2$ /NDF: 1355708.6/57

asym\_atl\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 357.025 $\pm$ 533.209  $\chi^2/\text{NDF}$ : 17.5/16

Left Out: -1269.412 $\pm$ 707.637  $\chi^2/\text{NDF}$ : 19.2/11

Right Out: 179.185 $\pm$ 446.995  $\chi^2/\text{NDF}$ : 18.5/17

Left In: 1903.983 $\pm$ 1773.956  $\chi^2/\text{NDF}$ : 7.2/10

Left: -833.770 $\pm$ 657.273  $\chi^2/\text{NDF}$ : 29.2/22

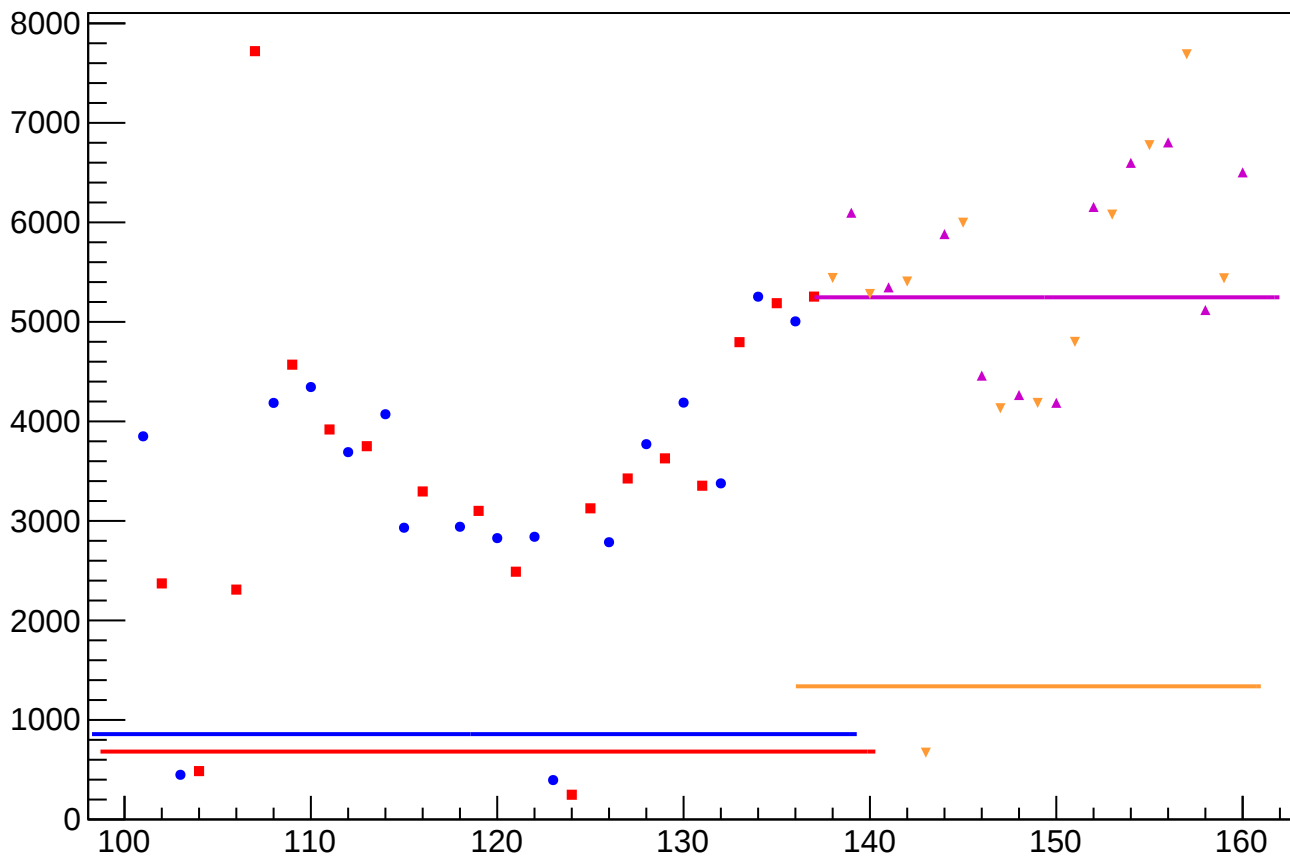
Right: 252.583 $\pm$ 342.551  $\chi^2/\text{NDF}$ : 36.1/34

In: 485.206 $\pm$ 510.641  $\chi^2/\text{NDF}$ : 25.4/27

Out: -233.968 $\pm$ 377.913  $\chi^2/\text{NDF}$ : 40.7/29

All: 20.537 $\pm$ 303.771  $\chi^2/\text{NDF}$ : 67.4/57

asym\_atl\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 857.472+/-0.377  $\chi^2/\text{NDF}$ : 8175260.6/16

Left Out: 1337.890+/-0.500  $\chi^2/\text{NDF}$ : 10837932.0/11

Right Out: 682.114+/-0.316  $\chi^2/\text{NDF}$ : 9378570.8/17

Left In: 5247.131+/-1.254  $\chi^2/\text{NDF}$ : 545868.1/10

Left: 1874.549+/-0.465  $\chi^2/\text{NDF}$ : 19762938.5/22

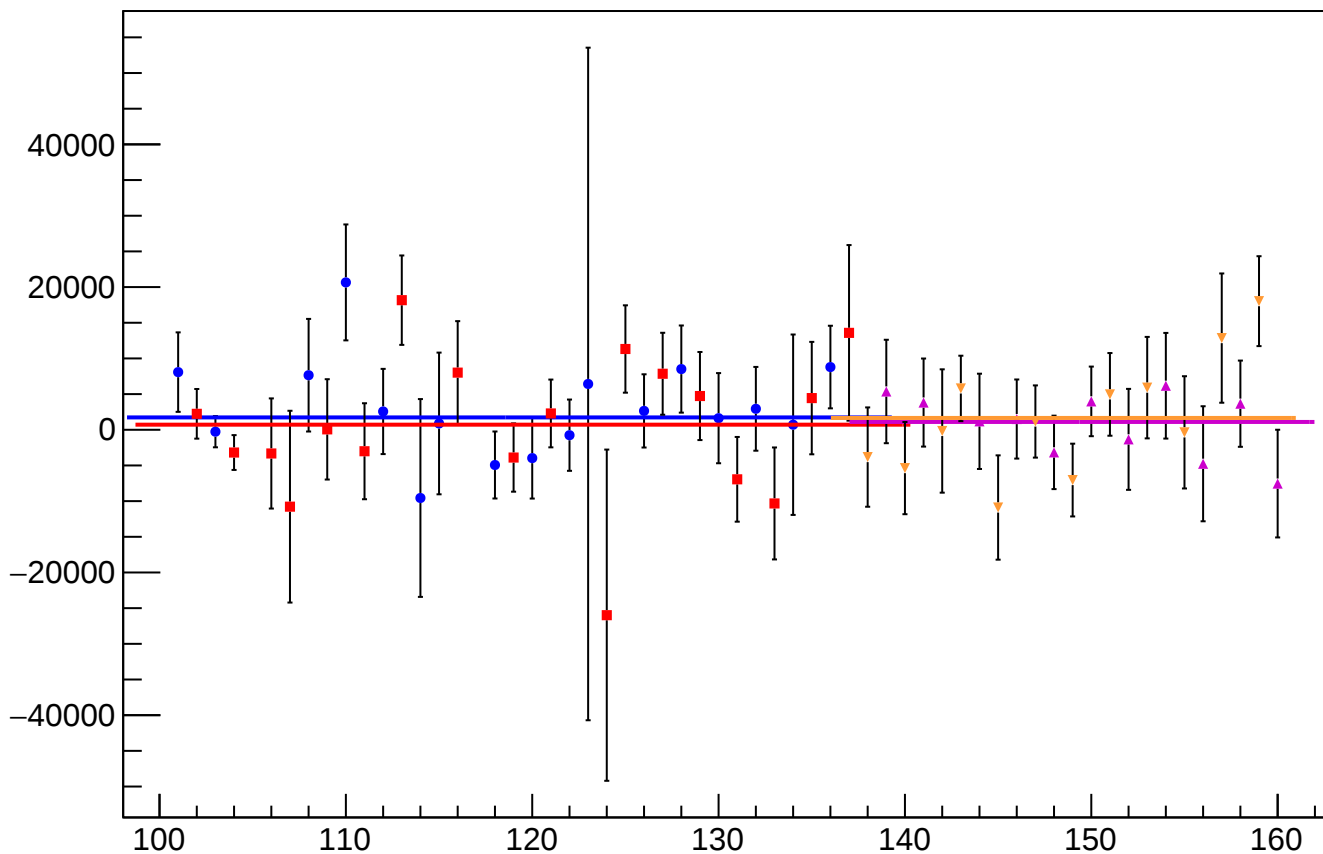
Right: 754.488+/-0.242  $\chi^2/\text{NDF}$ : 17680867.8/34

In: 1221.199+/-0.361  $\chi^2/\text{NDF}$ : 19952731.2/27

Out: 869.147+/-0.267  $\chi^2/\text{NDF}$ : 21444222.1/29

All: 993.734+/-0.215  $\chi^2/\text{NDF}$ : 42011169.1/57

# asym\_atl\_avg\_mean vs Slug, Sign Corrected



Right In: 1733.273+/-1304.606  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 1658.573+/-1810.998  $\chi^2/\text{NDF}$ : 17.6/11

Right Out: 715.502+/-1290.698  $\chi^2/\text{NDF}$ : 25.1/17

Left In: 1097.093+/-1894.579  $\chi^2/\text{NDF}$ : 4.2/10

Left: 1390.491+/-1309.120  $\chi^2/\text{NDF}$ : 21.8/22

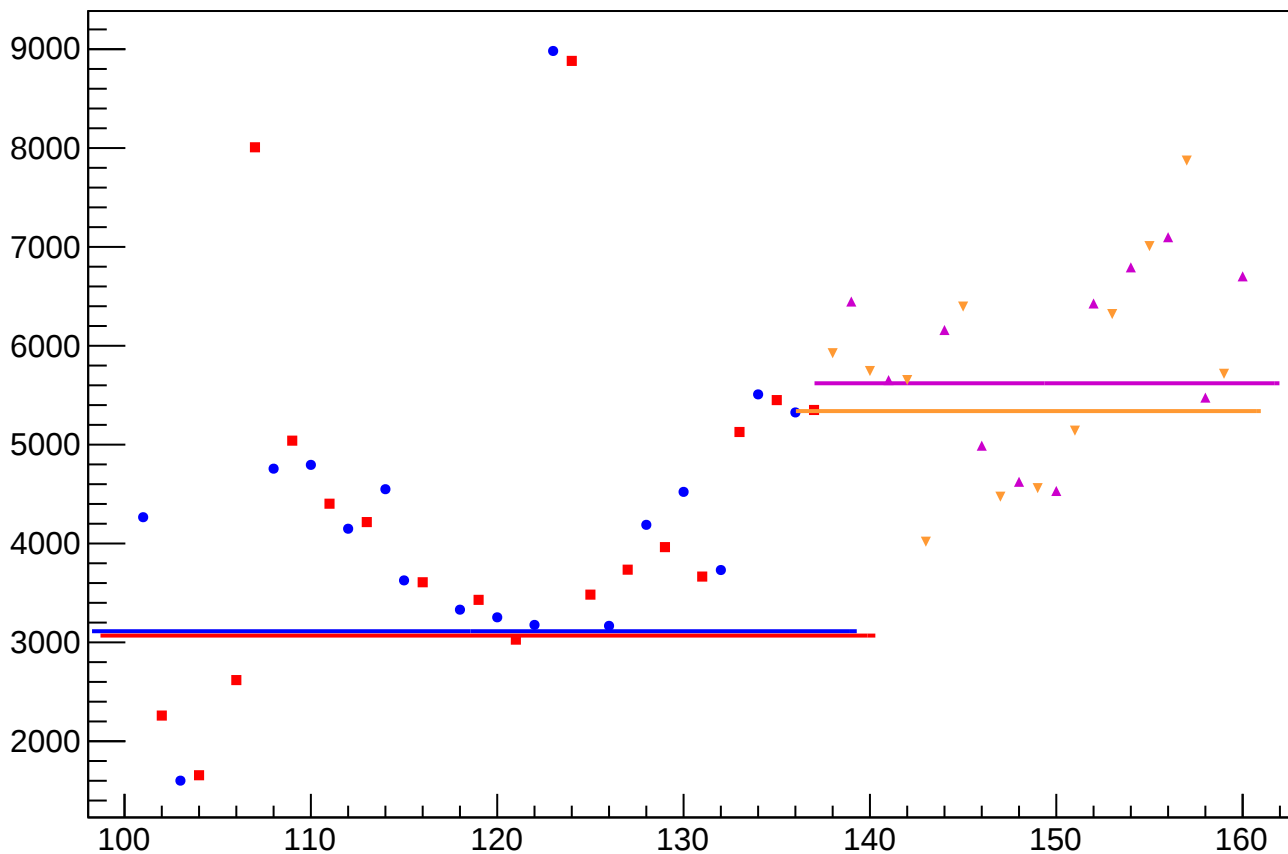
Right: 1218.933+/-917.539  $\chi^2/\text{NDF}$ : 40.3/34

In: 1528.644+/-1074.498  $\chi^2/\text{NDF}$ : 19.2/27

Out: 1033.170+/-1051.072  $\chi^2/\text{NDF}$ : 42.9/29

All: 1275.447+/-751.366  $\chi^2/\text{NDF}$ : 62.2/57

# asym\_atl\_avg\_rms vs Slug, Sign Corrected



Right In: 3112.686 $\pm$ 0.922  $\chi^2$ /NDF: 1884511.8/16

Left Out: 5339.363 $\pm$ 1.281  $\chi^2$ /NDF: 631921.4/11

Right Out: 3068.634 $\pm$ 0.899  $\chi^2$ /NDF: 2001632.3/17

Left In: 5620.707 $\pm$ 1.340  $\chi^2$ /NDF: 425325.3/10

Left: 5473.692 $\pm$ 0.926  $\chi^2$ /NDF: 1080293.2/22

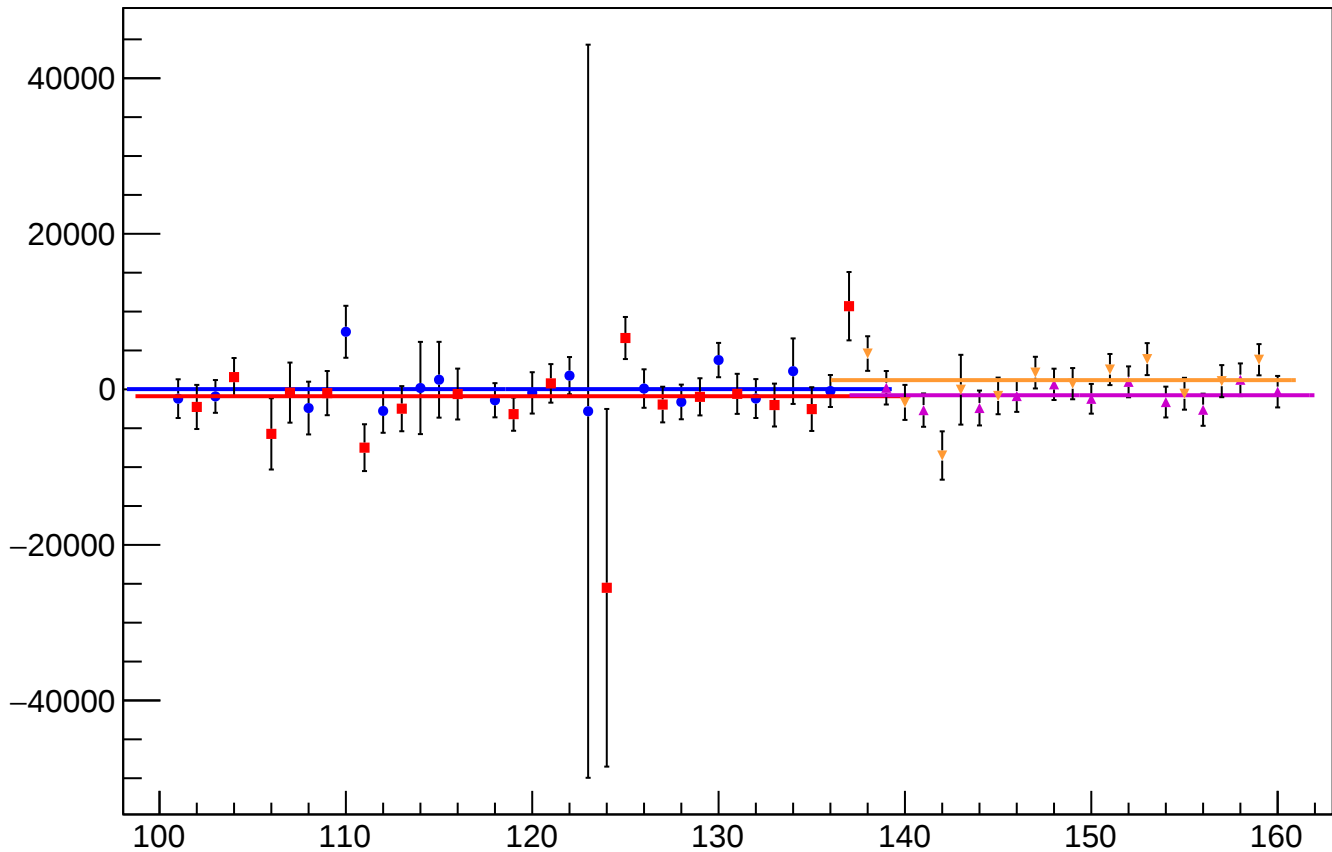
Right: 3090.101 $\pm$ 0.644  $\chi^2$ /NDF: 3887313.2/34

In: 3919.390 $\pm$ 0.760  $\chi^2$ /NDF: 4687338.7/27

Out: 3818.692 $\pm$ 0.736  $\chi^2$ /NDF: 4739244.6/29

All: 3867.439 $\pm$ 0.529  $\chi^2$ /NDF: 9435645.6/57

# dit\_asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: 29.102+/-658.403  $\chi^2/\text{NDF}$ : 11.8/16

Left Out: 1184.268+/-641.469  $\chi^2/\text{NDF}$ : 19.4/11

Right Out: -882.685+/-674.623  $\chi^2/\text{NDF}$ : 25.6/17

Left In: -757.768+/-619.310  $\chi^2/\text{NDF}$ : 4.8/10

Left: 179.127+/-445.546  $\chi^2/\text{NDF}$ : 29.0/22

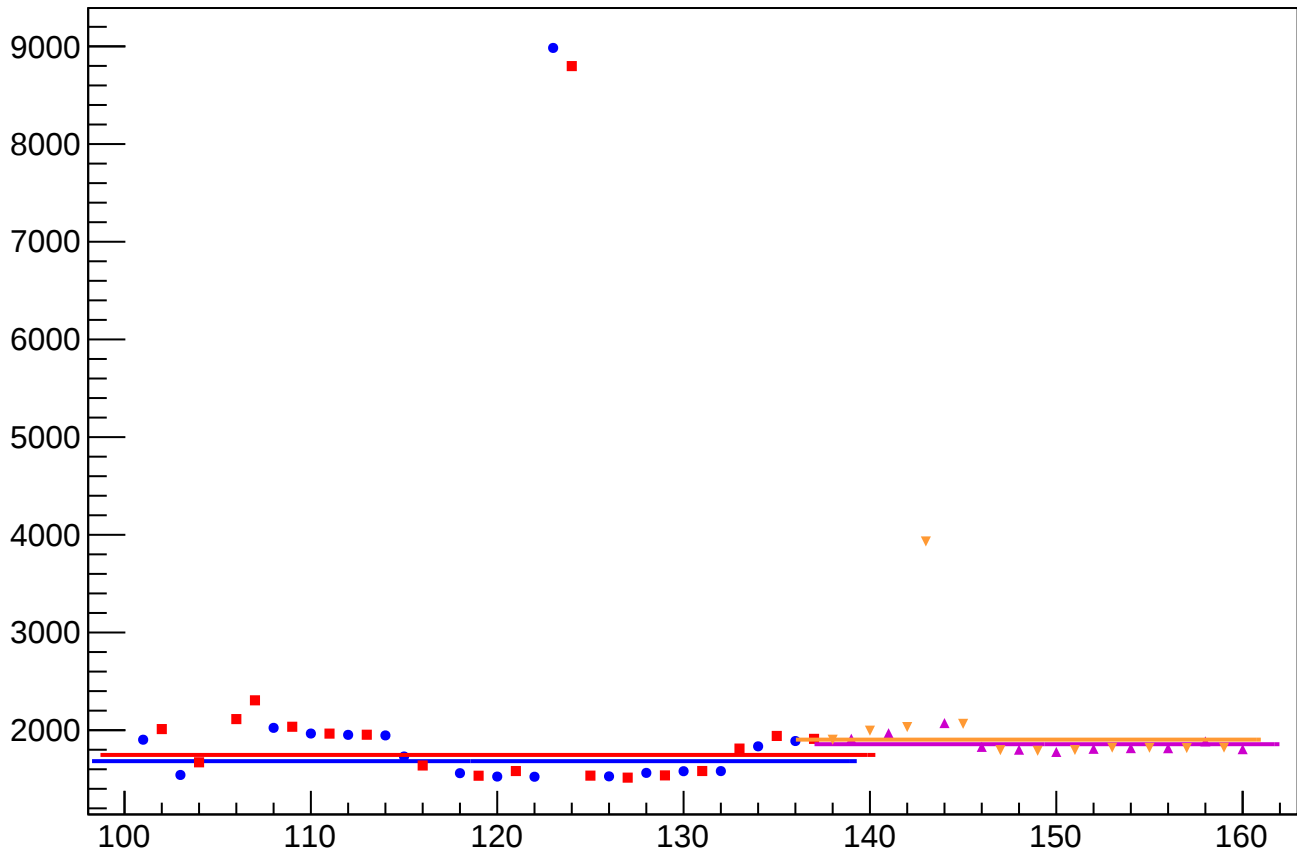
Right: -415.699+/-471.191  $\chi^2/\text{NDF}$ : 38.4/34

In: -388.386+/-451.106  $\chi^2/\text{NDF}$ : 17.4/27

Out: 202.827+/-464.866  $\chi^2/\text{NDF}$ : 50.0/29

All: -101.659+/-323.735  $\chi^2/\text{NDF}$ : 68.2/57

dit\_asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 1683.124+/-0.466  $\chi^2/\text{NDF}$ : 195857.2/16

Left Out: 1903.470+/-0.454  $\chi^2/\text{NDF}$ : 455989.8/11

Right Out: 1746.802+/-0.476  $\chi^2/\text{NDF}$ : 406724.0/17

Left In: 1856.612+/-0.438  $\chi^2/\text{NDF}$ : 35210.6/10

Left: 1879.218+/-0.315  $\chi^2/\text{NDF}$ : 496724.1/22

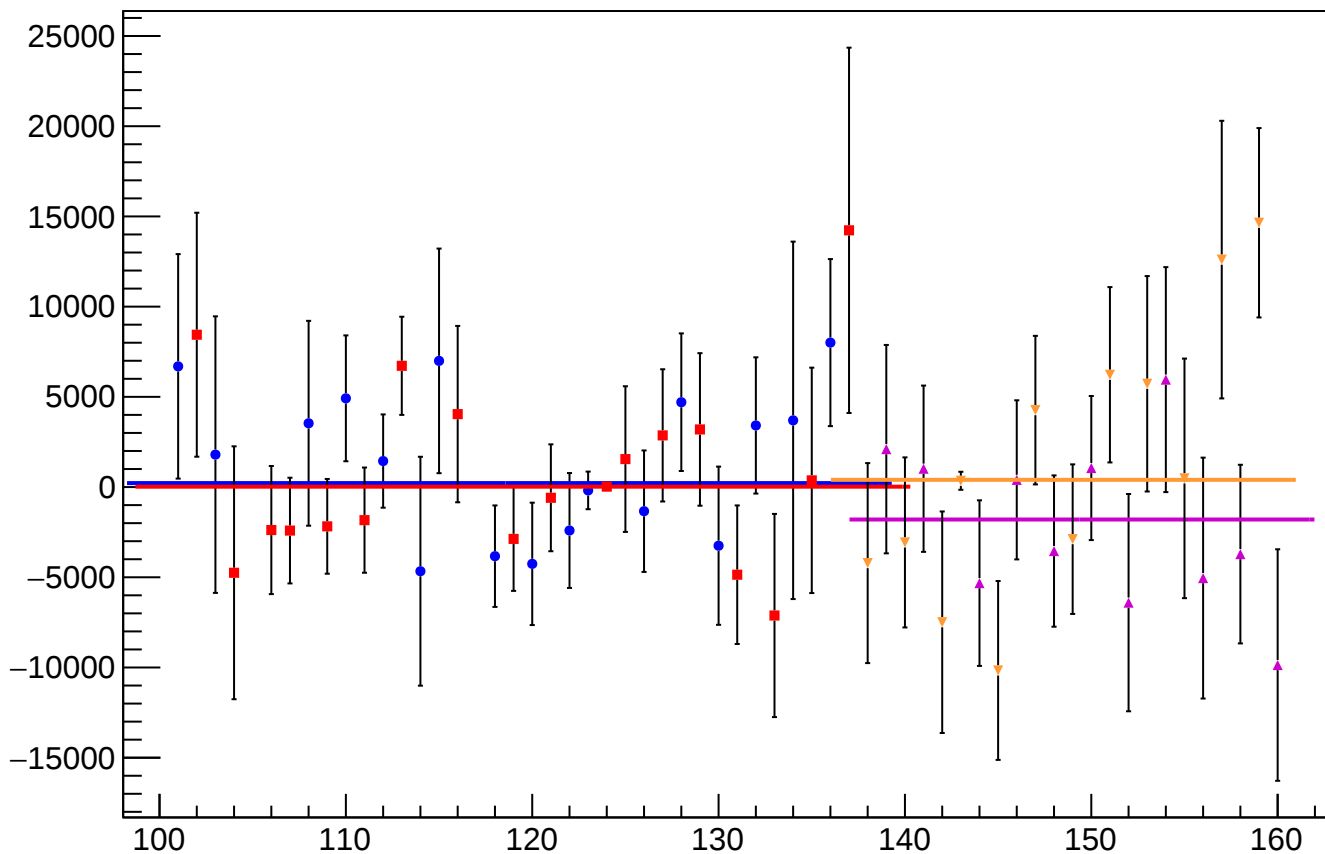
Right: 1714.259+/-0.333  $\chi^2/\text{NDF}$ : 611728.2/34

In: 1775.171+/-0.319  $\chi^2/\text{NDF}$ : 304743.5/27

Out: 1828.908+/-0.328  $\chi^2/\text{NDF}$ : 919491.9/29

All: 1801.260+/-0.229  $\chi^2/\text{NDF}$ : 1238014.1/57

asym\_atl\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 219.808 $\pm$ 720.915  $\chi^2$ /NDF: 15.8/16

Left Out: 400.543 $\pm$ 475.662  $\chi^2$ /NDF:21.1/11

Right Out: 21.945 $\pm$ 114.135  $\chi^2$ /NDF: 18.6/17

Left In: -1797.924 $\pm$ 1513.674  $\chi^2$ /NDF:6.5/10

Left: 202.957 $\pm$ 453.784  $\chi^2$ /NDF: 29.4/22

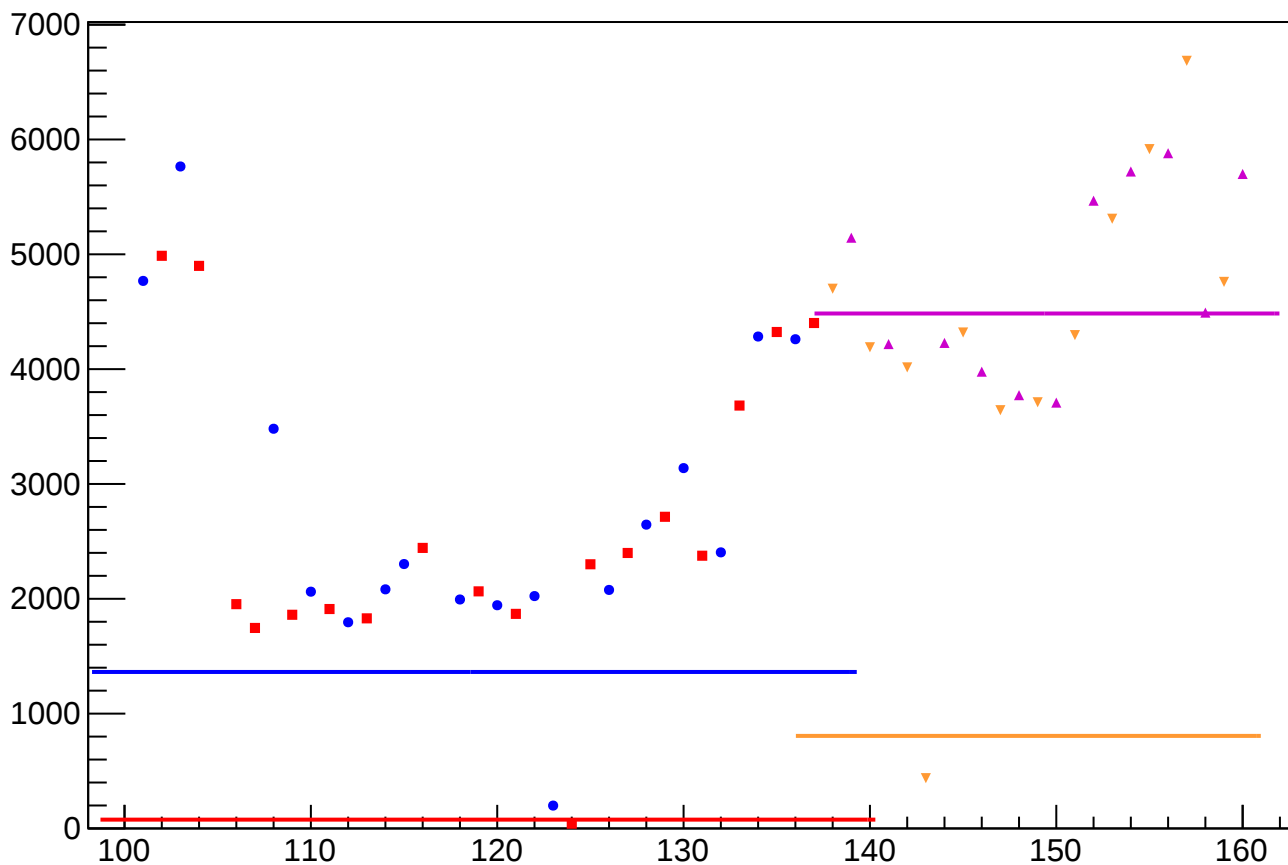
Right: 26.783 $\pm$ 112.731  $\chi^2$ /NDF: 34.5/34

In: -153.255 $\pm$ 650.866  $\chi^2$ /NDF:23.7/27

Out: 42.556 $\pm$ 110.985  $\chi^2$ /NDF:40.2/29

All: 37.023 $\pm$ 109.406  $\chi^2$ /NDF: 64.0/57

asym\_atl\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1362.842 $\pm$ 0.510  $\chi^2$ /NDF: 6235846.3/16

Left Out: 806.052 $\pm$ 0.336  $\chi^2$ /NDF: 12247412.4/11

Right Out: 76.832 $\pm$ 0.081  $\chi^2$ /NDF: 13114372.5/17

Left In: 4484.526 $\pm$ 1.070  $\chi^2$ /NDF: 489644.3/10

Left: 1136.651 $\pm$ 0.321  $\chi^2$ /NDF: 23486911.5/22

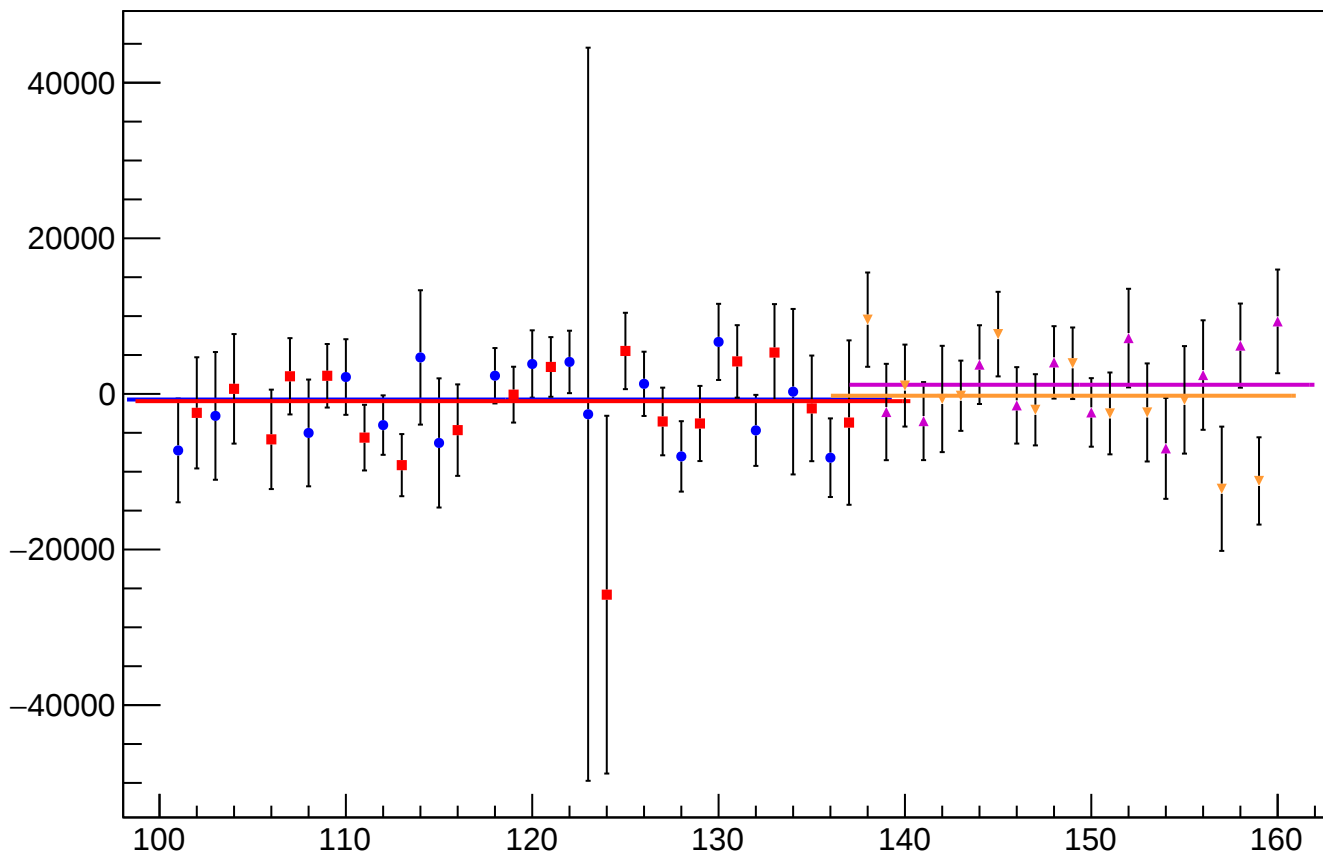
Right: 108.278 $\pm$ 0.080  $\chi^2$ /NDF: 25558892.3/34

In: 1940.017 $\pm$ 0.460  $\chi^2$ /NDF: 13659086.1/27

Out: 116.532 $\pm$ 0.078  $\chi^2$ /NDF: 29806439.4/29

All: 168.055 $\pm$ 0.077  $\chi^2$ /NDF: 58720220.2/57

# asym\_atl\_dd\_mean vs Slug, Sign Corrected



Right In: -721.483+/-1252.519  $\chi^2/\text{NDF}$ : 14.8/16

Left Out: -232.690+/-1596.430  $\chi^2/\text{NDF}$ :12.1/11

Right Out: -931.712+/-1194.458  $\chi^2/\text{NDF}$ : 14.9/17

Left In: 1175.230+/-1644.798  $\chi^2/\text{NDF}$ :7.7/10

Left: 450.264+/-1145.564  $\chi^2/\text{NDF}$ : 20.2/22

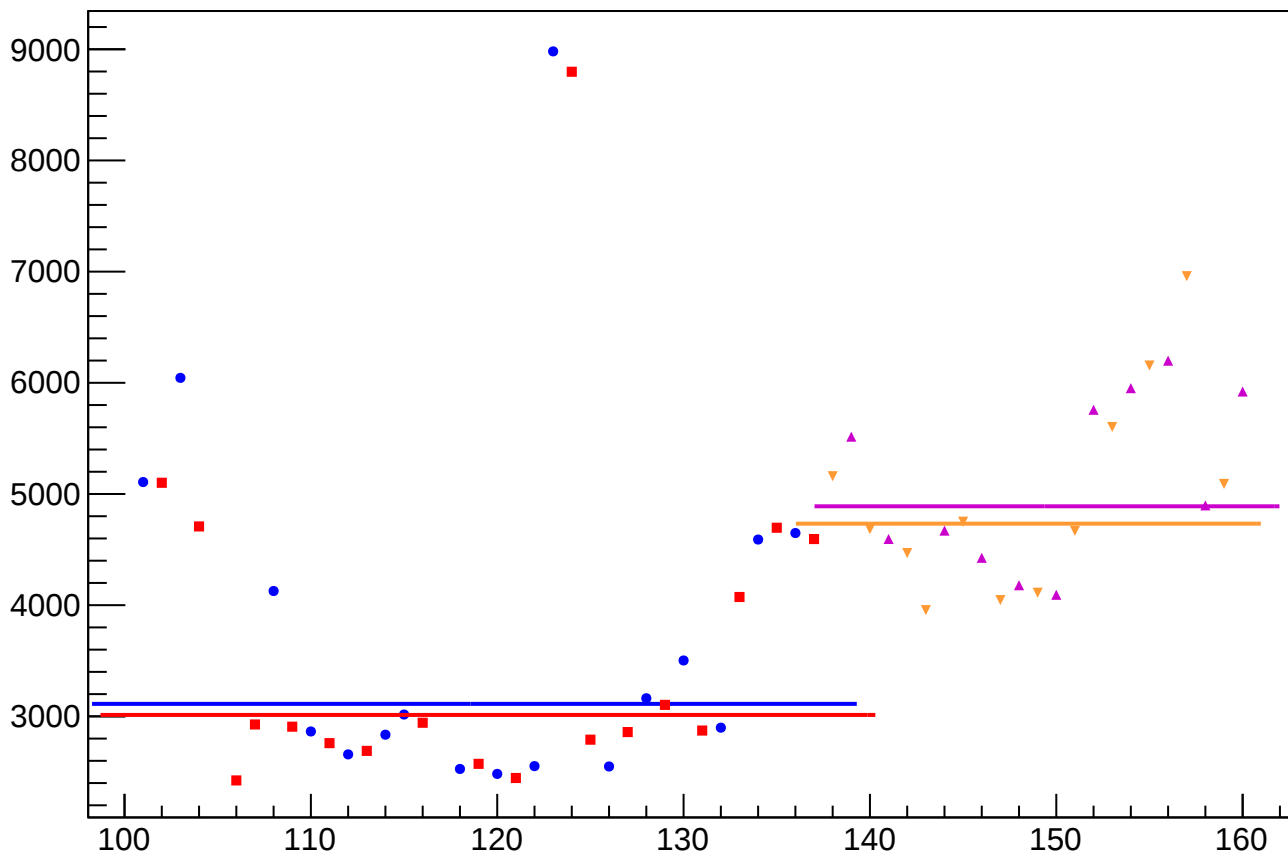
Right: -831.583+/-864.407  $\chi^2/\text{NDF}$ : 29.7/34

In: -25.307+/-996.486  $\chi^2/\text{NDF}$ :23.2/27

Out: -680.835+/-956.389  $\chi^2/\text{NDF}$ :27.2/29

All: -366.525+/-690.009  $\chi^2/\text{NDF}$ : 50.6/57

# asym\_atl\_dd\_rms vs Slug, Sign Corrected



Right In: 3112.232+/-0.886  $\chi^2/\text{NDF}$ : 958497.7/16

Left Out: 4733.101+/-1.129  $\chi^2/\text{NDF}$ : 440700.9/11

Right Out: 3012.763+/-0.834  $\chi^2/\text{NDF}$ : 774261.7/17

Left In: 4889.322+/-1.163  $\chi^2/\text{NDF}$ : 369164.9/10

Left: 4808.881+/-0.810  $\chi^2/\text{NDF}$ : 819156.0/22

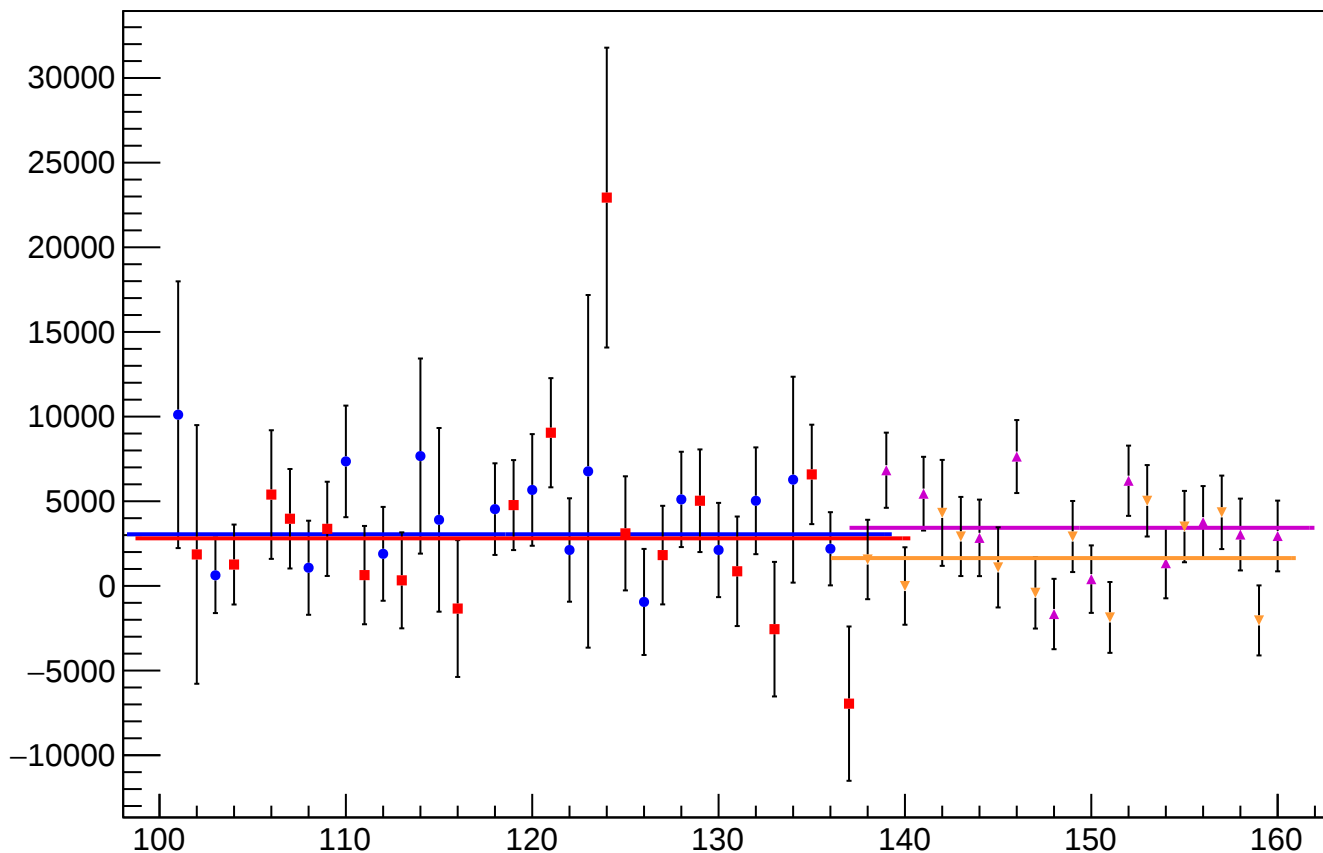
Right: 3059.514+/-0.607  $\chi^2/\text{NDF}$ : 1739444.6/34

In: 3764.497+/-0.705  $\chi^2/\text{NDF}$ : 2805407.2/27

Out: 3620.246+/-0.671  $\chi^2/\text{NDF}$ : 2717351.7/29

All: 3688.827+/-0.486  $\chi^2/\text{NDF}$ : 5544744.1/57

# dit\_asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 3049.083 $\pm$ 772.320  $\chi^2/\text{NDF}$ : 9.3/16

Left Out: 1643.072 $\pm$ 643.909  $\chi^2/\text{NDF}$ :13.8/11

Right Out: 2809.116 $\pm$ 766.213  $\chi^2/\text{NDF}$ : 22.0/17

Left In: 3431.212 $\pm$ 639.624  $\chi^2/\text{NDF}$ :18.3/10

Left: 2543.110 $\pm$ 453.790  $\chi^2/\text{NDF}$ : 36.0/22

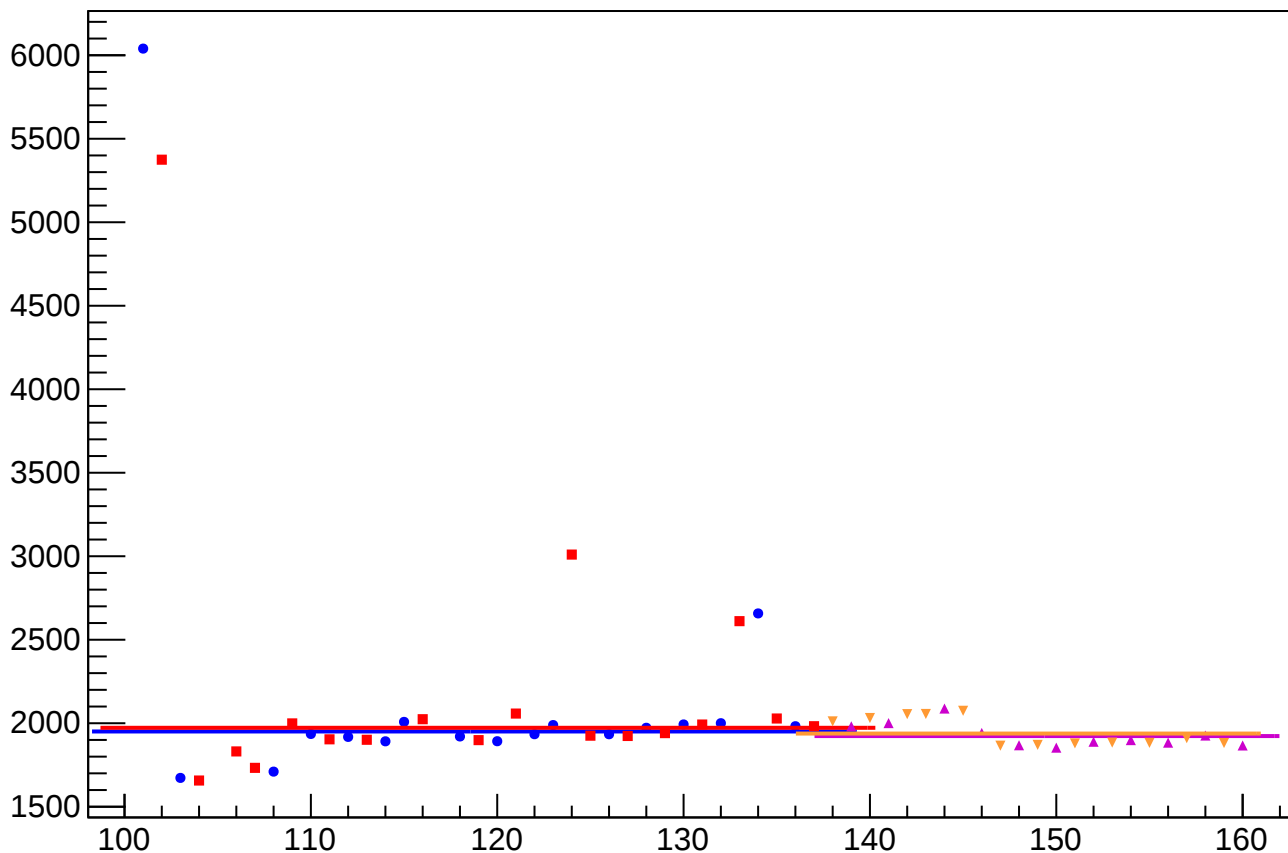
Right: 2928.147 $\pm$ 543.941  $\chi^2/\text{NDF}$ : 31.4/34

In: 3275.746 $\pm$ 492.618  $\chi^2/\text{NDF}$ :27.8/27

Out: 2125.715 $\pm$ 492.952  $\chi^2/\text{NDF}$ :37.2/29

All: 2701.120 $\pm$ 348.452  $\chi^2/\text{NDF}$ : 67.7/57

# dit\_asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 1950.692 $\pm$ 0.546  $\chi^2$ /NDF: 615165.3/16

Left Out: 1938.177 $\pm$ 0.455  $\chi^2$ /NDF:30241.3/11

Right Out: 1972.726 $\pm$ 0.541  $\chi^2$ /NDF: 535670.1/17

Left In: 1923.193 $\pm$ 0.452  $\chi^2$ /NDF:21495.5/10

Left: 1930.635 $\pm$ 0.321  $\chi^2$ /NDF: 52281.9/22

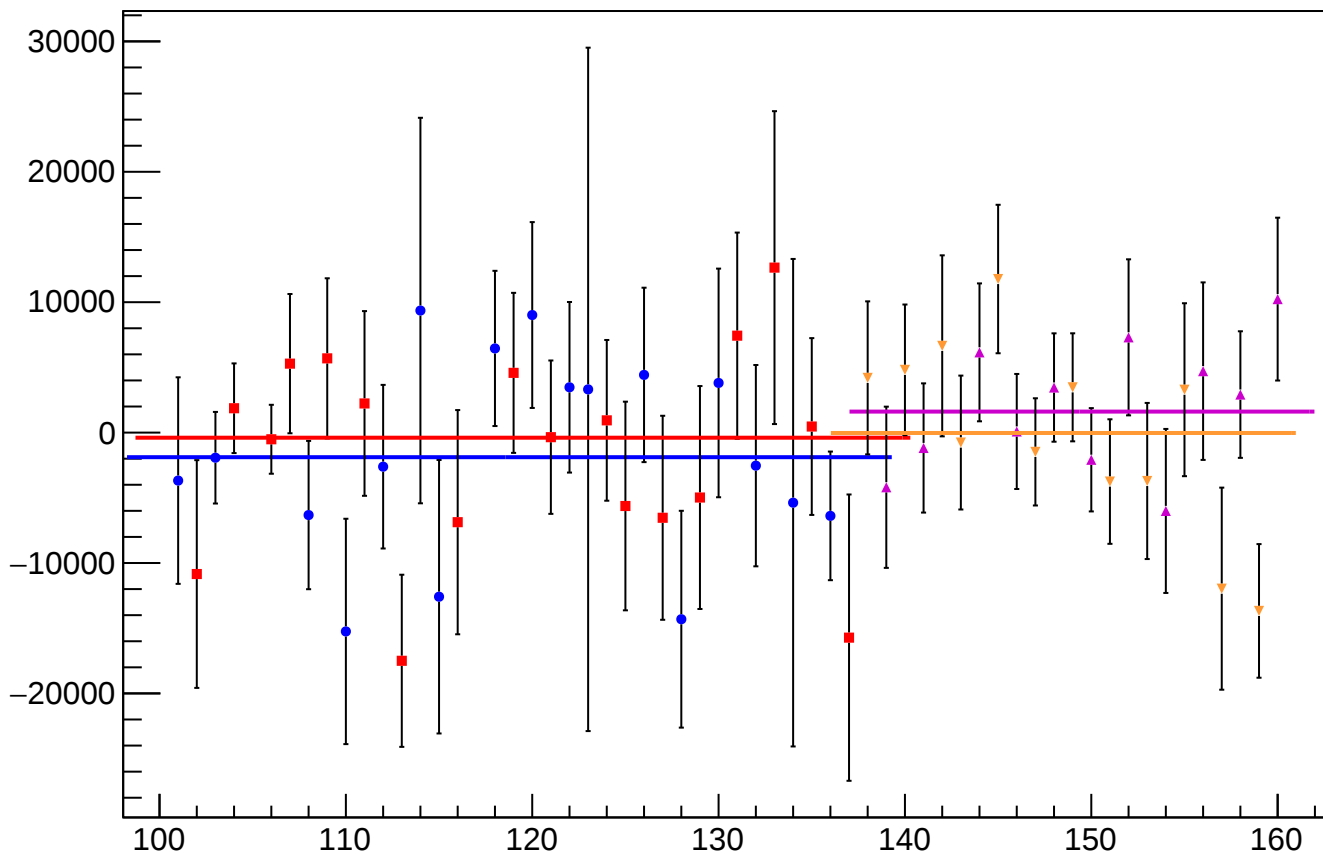
Right: 1961.803 $\pm$ 0.385  $\chi^2$ /NDF: 1151656.3/34

In: 1934.380 $\pm$ 0.348  $\chi^2$ /NDF:638164.7/27

Out: 1952.488 $\pm$ 0.348  $\chi^2$ /NDF:568296.2/29

All: 1943.430 $\pm$ 0.246  $\chi^2$ /NDF: 1207811.5/57

asym\_atr\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -1885.285 $\pm$ 1657.979  $\chi^2/\text{NDF}$ : 14.1/16

Left Out: -29.489 $\pm$ 1533.619  $\chi^2/\text{NDF}$ : 18.2/11

Right Out: -391.453 $\pm$ 1361.685  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 1610.950 $\pm$ 1545.537  $\chi^2/\text{NDF}$ : 7.7/10

Left: 784.381 $\pm$ 1088.622  $\chi^2/\text{NDF}$ : 26.5/22

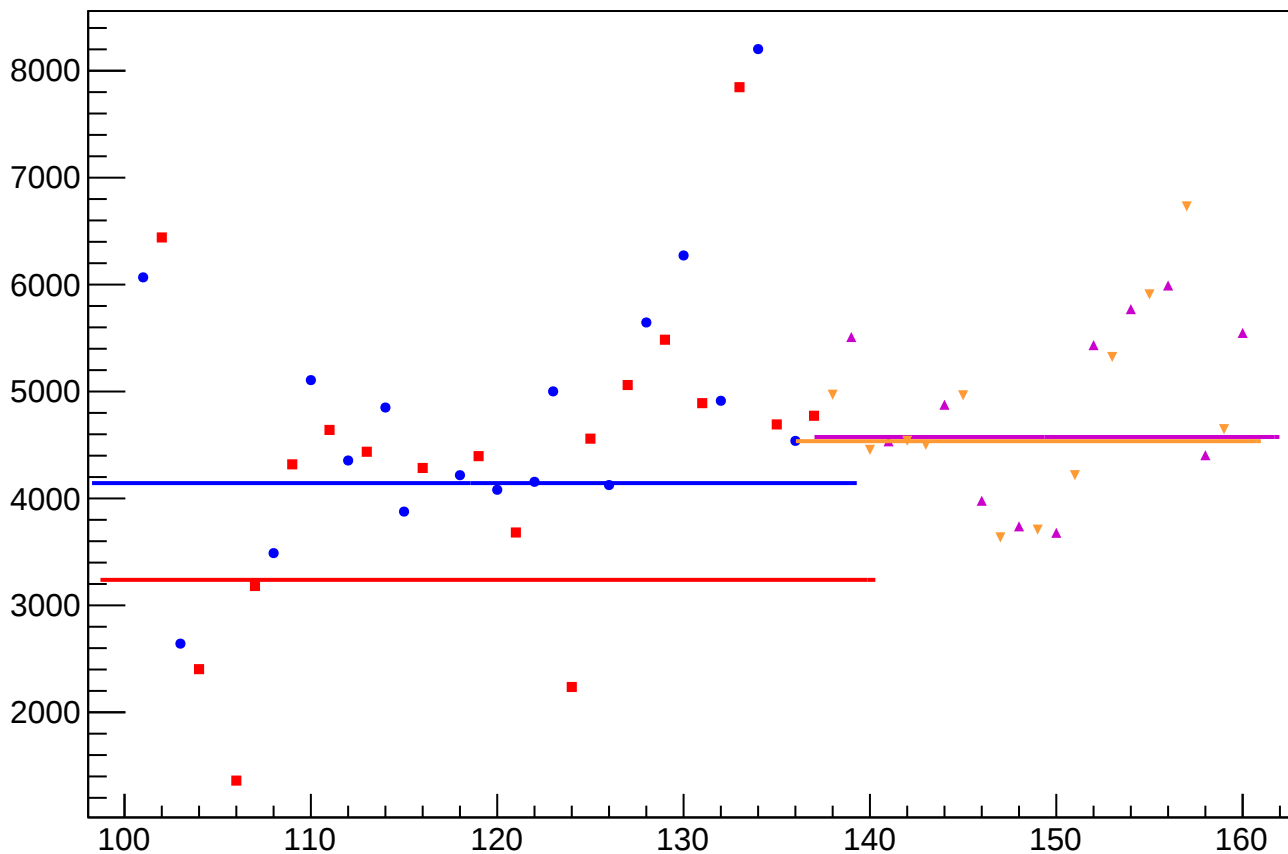
Right: -993.190 $\pm$ 1052.280  $\chi^2/\text{NDF}$ : 32.2/34

In: -14.602 $\pm$ 1130.522  $\chi^2/\text{NDF}$ : 24.2/27

Out: -231.890 $\pm$ 1018.241  $\chi^2/\text{NDF}$ : 35.8/29

All: -134.569 $\pm$ 756.596  $\chi^2/\text{NDF}$ : 60.0/57

asym\_atr\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 4143.478+/-1.172  $\chi^2/\text{NDF}$ : 855972.6/16

Left Out: 4535.634+/-1.084  $\chi^2/\text{NDF}$ : 489342.0/11

Right Out: 3238.590+/-0.963  $\chi^2/\text{NDF}$ : 2581960.1/17

Left In: 4574.853+/-1.093  $\chi^2/\text{NDF}$ : 523415.1/10

Left: 4555.091+/-0.770  $\chi^2/\text{NDF}$ : 1013406.0/22

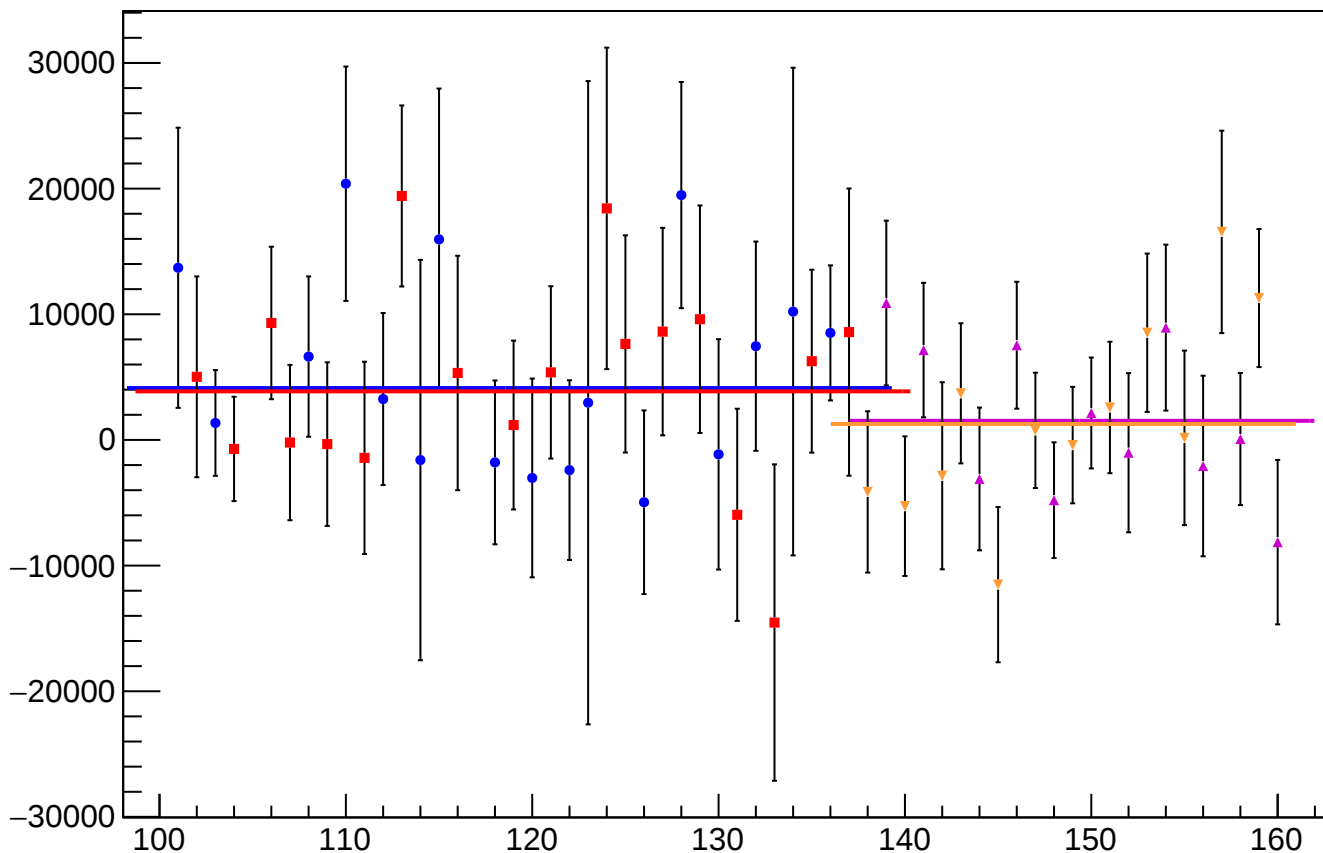
Right: 3603.092+/-0.744  $\chi^2/\text{NDF}$ : 3793704.0/34

In: 4374.288+/-0.799  $\chi^2/\text{NDF}$ : 1451828.0/27

Out: 3810.359+/-0.720  $\chi^2/\text{NDF}$ : 3871231.5/29

All: 4062.936+/-0.535  $\chi^2/\text{NDF}$ : 5597815.2/57

# asym\_atr\_avg\_mean vs Slug, Sign Corrected



Right In: 4126.632 $\pm$ 1863.062  $\chi^2$ /NDF: 13.7/16

Left Out: 1267.379 $\pm$ 1670.881  $\chi^2$ /NDF:15.4/11

Right Out: 3866.479 $\pm$ 1727.484  $\chi^2$ /NDF: 14.3/17

Left In: 1521.365 $\pm$ 1681.557  $\chi^2$ /NDF:11.1/10

Left: 1393.564 $\pm$ 1185.248  $\chi^2$ /NDF: 26.4/22

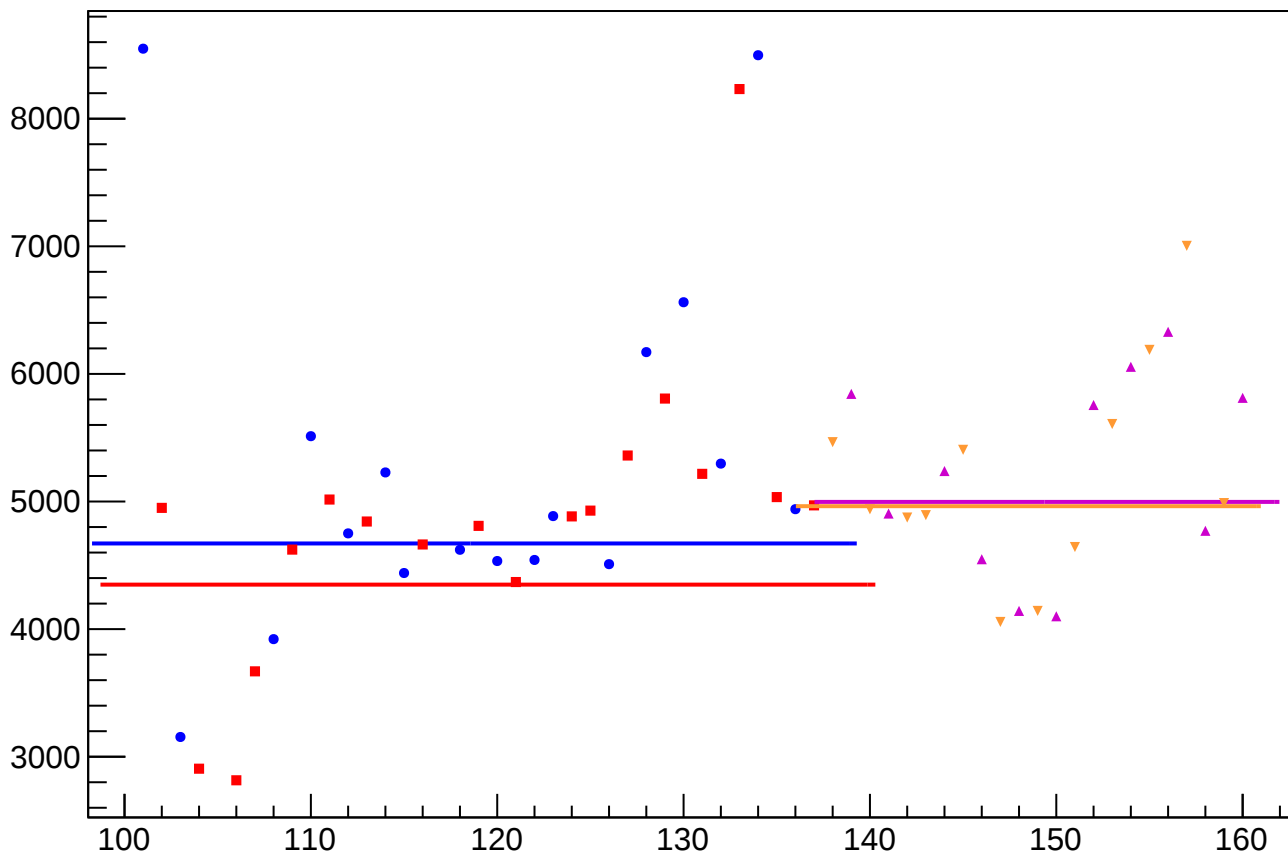
Right: 3986.746 $\pm$ 1266.737  $\chi^2$ /NDF: 27.9/34

In: 2690.943 $\pm$ 1248.291  $\chi^2$ /NDF:25.8/27

Out: 2523.651 $\pm$ 1201.004  $\chi^2$ /NDF:30.8/29

All: 2604.068 $\pm$ 865.472  $\chi^2$ /NDF: 56.6/57

# asym\_atr\_avg\_rms vs Slug, Sign Corrected



Right In: 4671.319+/-1.317  $\chi^2/\text{NDF}$ : 786112.0/16

Left Out: 4963.381+/-1.181  $\chi^2/\text{NDF}$ : 383095.0/11

Right Out: 4348.716+/-1.214  $\chi^2/\text{NDF}$ : 792425.3/17

Left In: 4997.021+/-1.189  $\chi^2/\text{NDF}$ : 388518.1/10

Left: 4980.094+/-0.838  $\chi^2/\text{NDF}$ : 772015.8/22

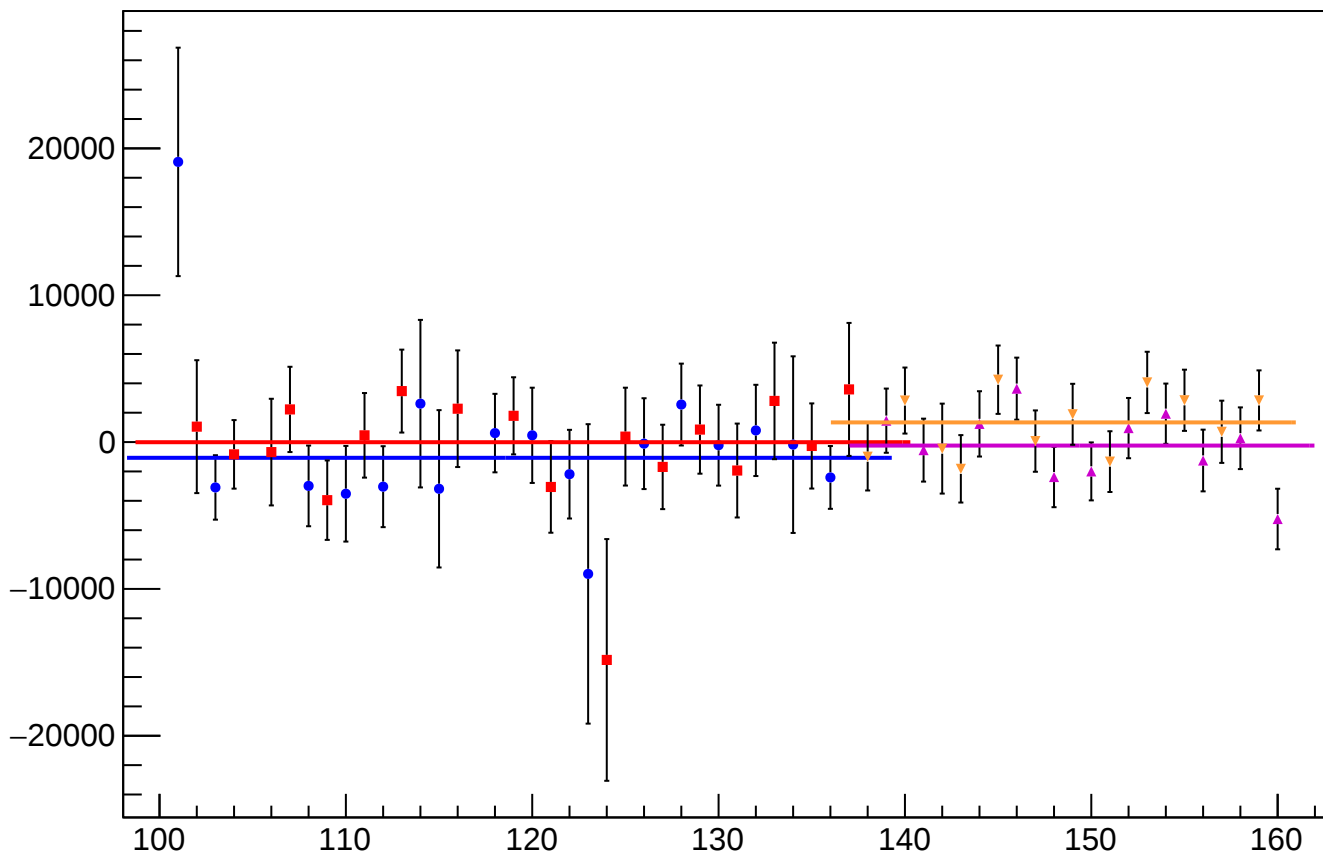
Right: 4496.923+/-0.893  $\chi^2/\text{NDF}$ : 1610954.9/34

In: 4850.804+/-0.883  $\chi^2/\text{NDF}$ : 1208314.1/27

Out: 4664.501+/-0.847  $\chi^2/\text{NDF}$ : 1307125.9/29

All: 4753.795+/-0.611  $\chi^2/\text{NDF}$ : 2538637.0/57

dit\_asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: -1071.254+/-762.970  $\chi^2/\text{NDF}$ : 13.7/16

Left Out: 1339.288+/-634.489  $\chi^2/\text{NDF}$ : 10.2/11

Right Out: -8.910+/-748.092  $\chi^2/\text{NDF}$ : 11.4/17

Left In: -237.897+/-631.215  $\chi^2/\text{NDF}$ : 13.9/10

Left: 546.615+/-447.489  $\chi^2/\text{NDF}$ : 27.3/22

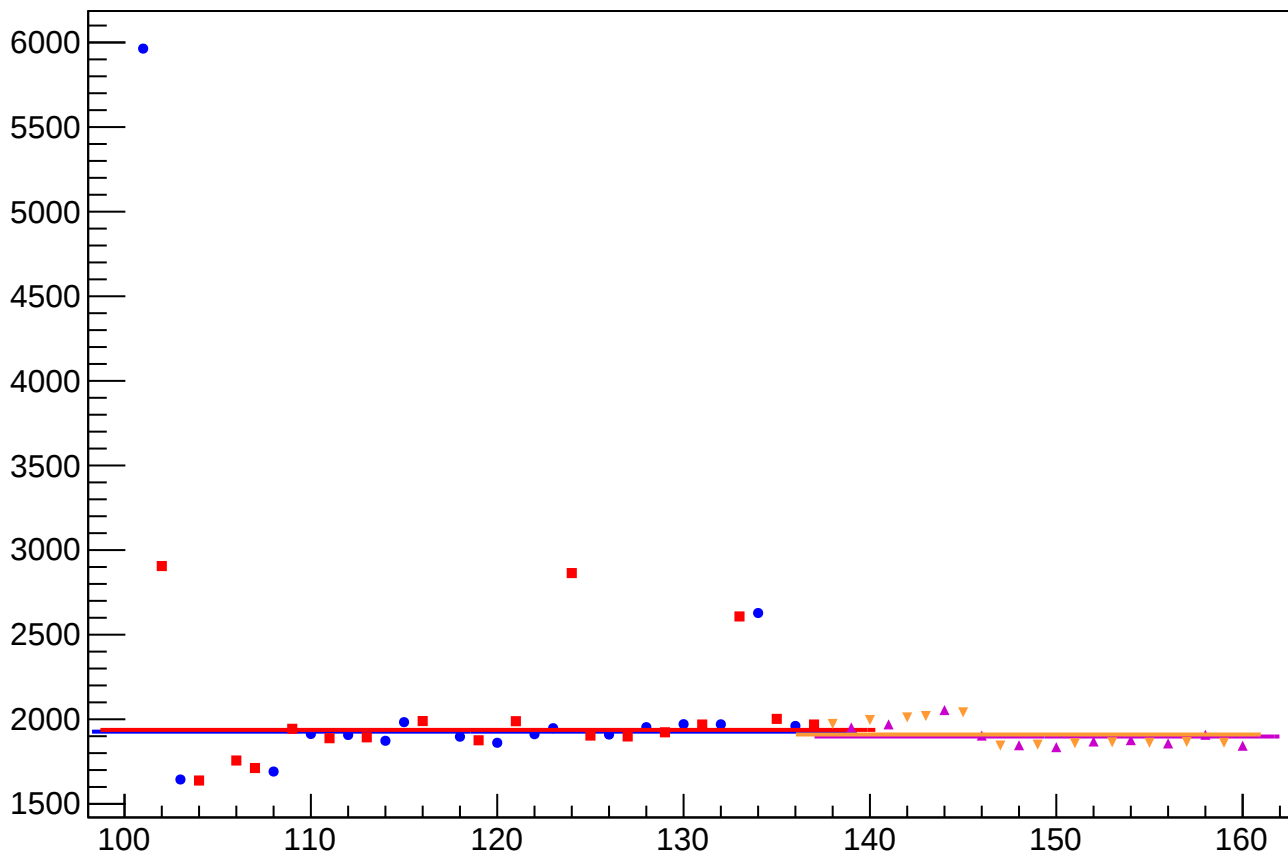
Right: -529.623+/-534.164  $\chi^2/\text{NDF}$ : 26.1/34

In: -576.517+/-486.350  $\chi^2/\text{NDF}$ : 28.4/27

Out: 775.223+/-483.885  $\chi^2/\text{NDF}$ : 23.5/29

All: 102.786+/-343.027  $\chi^2/\text{NDF}$ : 55.8/57

# dit\_asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 1926.890+/-0.540  $\chi^2/\text{NDF}$ : 617116.3/16

Left Out: 1910.117+/-0.449  $\chi^2/\text{NDF}$ : 26358.9/11

Right Out: 1937.280+/-0.529  $\chi^2/\text{NDF}$ : 229079.5/17

Left In: 1898.107+/-0.446  $\chi^2/\text{NDF}$ : 19455.7/10

Left: 1904.081+/-0.316  $\chi^2/\text{NDF}$ : 46174.8/22

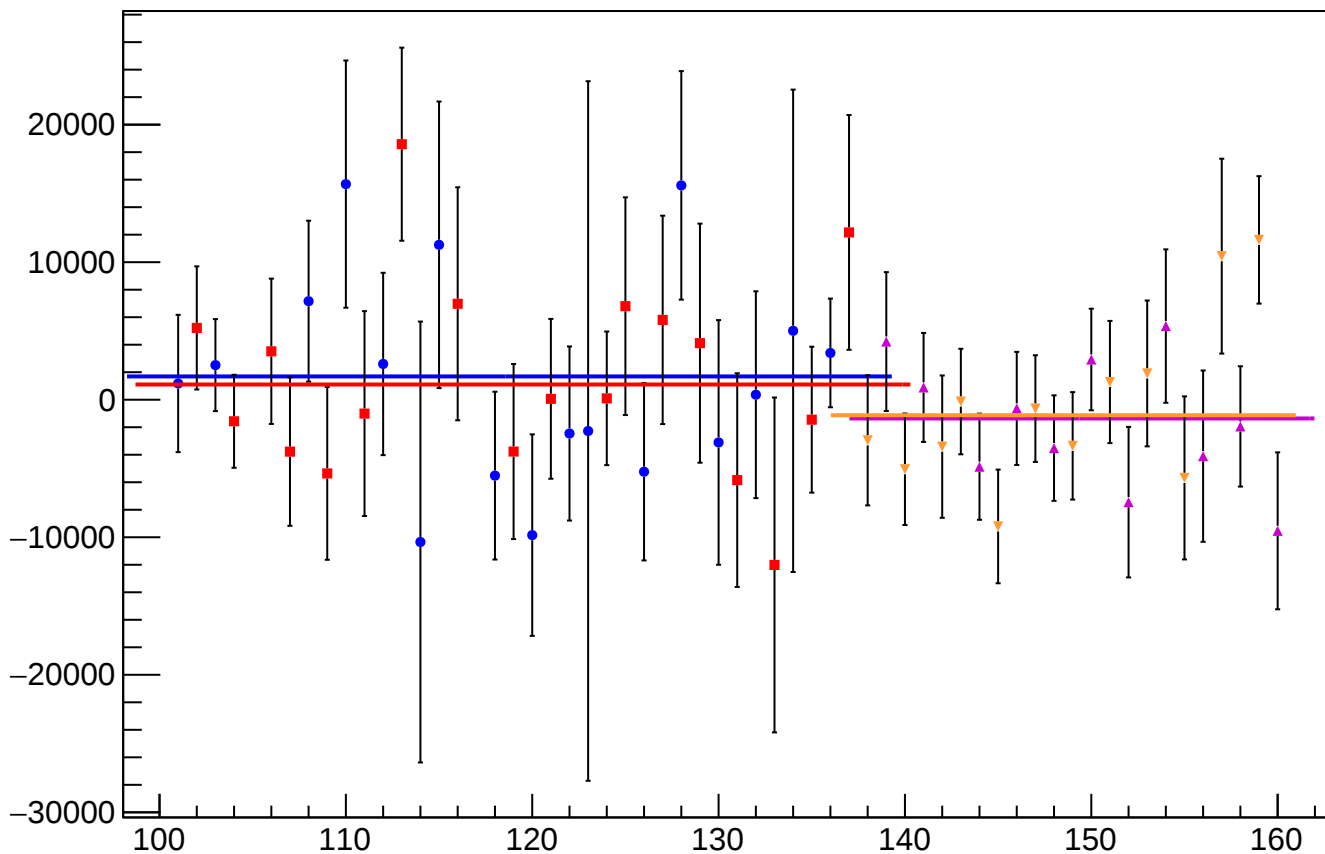
Right: 1932.191+/-0.378  $\chi^2/\text{NDF}$ : 846384.9/34

In: 1909.803+/-0.344  $\chi^2/\text{NDF}$ : 638261.8/27

Out: 1921.491+/-0.342  $\chi^2/\text{NDF}$ : 256973.3/29

All: 1915.679+/-0.243  $\chi^2/\text{NDF}$ : 895815.8/57

asym\_atr\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 1693.966+/-1551.941  $\chi^2/\text{NDF}$ : 13.6/16

Left Out: -1127.546+/-1310.120  $\chi^2/\text{NDF}$ : 17.0/11

Right Out: 1107.921+/-1412.697  $\chi^2/\text{NDF}$ : 15.9/17

Left In: -1362.143+/-1354.705  $\chi^2/\text{NDF}$ : 9.0/10

Left: -1240.920+/-941.762  $\chi^2/\text{NDF}$ : 26.0/22

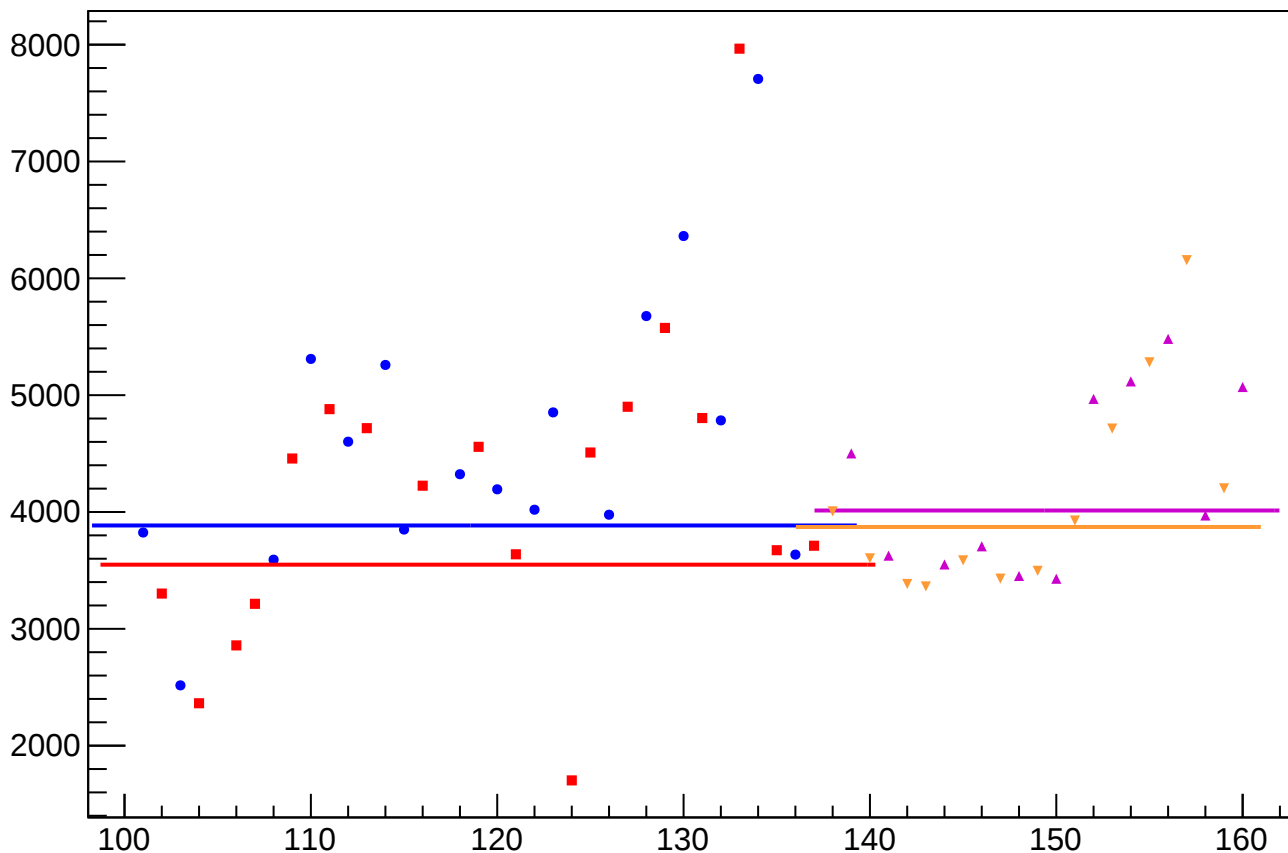
Right: 1373.479+/-1044.694  $\chi^2/\text{NDF}$ : 29.6/34

In: -40.517+/-1020.576  $\chi^2/\text{NDF}$ : 24.8/27

Out: -93.910+/-960.614  $\chi^2/\text{NDF}$ : 34.2/29

All: -68.828+/-699.494  $\chi^2/\text{NDF}$ : 59.0/57

asym\_atr\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 3884.603+/-1.097  $\chi^2/\text{NDF}$ : 826563.8/16

Left Out: 3871.695+/-0.926  $\chi^2/\text{NDF}$ : 499212.0/11

Right Out: 3549.133+/-0.999  $\chi^2/\text{NDF}$ : 1326947.7/17

Left In: 4012.828+/-0.958  $\chi^2/\text{NDF}$ : 489805.9/10

Left: 3939.901+/-0.666  $\chi^2/\text{NDF}$ : 1000234.5/22

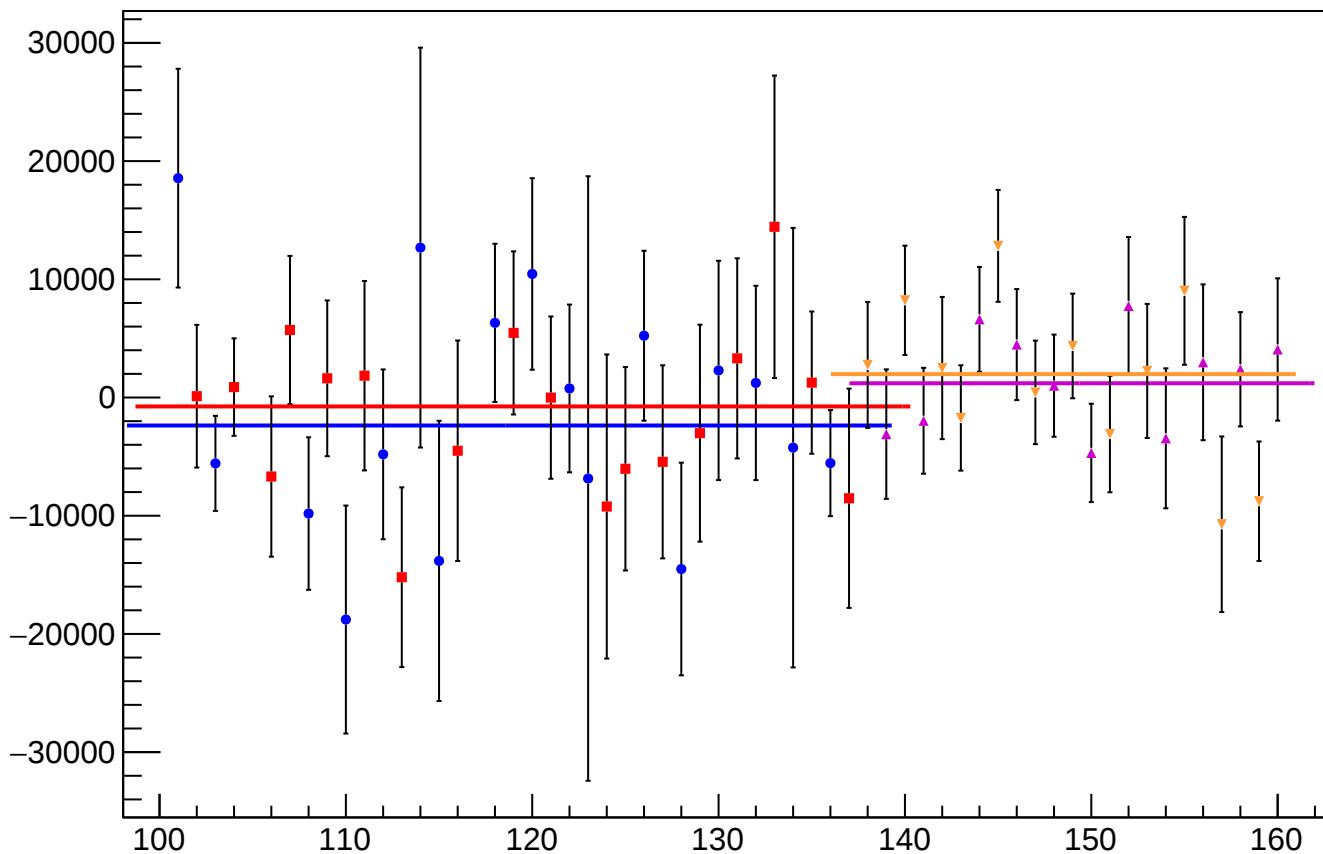
Right: 3701.146+/-0.739  $\chi^2/\text{NDF}$ : 2204616.7/34

In: 3957.377+/-0.722  $\chi^2/\text{NDF}$ : 1324118.4/27

Out: 3722.549+/-0.679  $\chi^2/\text{NDF}$ : 1882216.9/29

All: 3832.862+/-0.495  $\chi^2/\text{NDF}$ : 3262480.2/57

# asym\_atr\_dd\_mean vs Slug, Sign Corrected



Right In: -2367.526 $\pm$ 1801.942  $\chi^2$ /NDF: 20.1/16

Left Out: 1979.829 $\pm$ 1469.644  $\chi^2$ /NDF:18.0/11

Right Out: -755.757 $\pm$ 1693.103  $\chi^2$ /NDF: 10.5/17

Left In: 1205.002 $\pm$ 1504.148  $\chi^2$ /NDF:7.3/10

Left: 1601.404 $\pm$ 1051.182  $\chi^2$ /NDF: 25.5/22

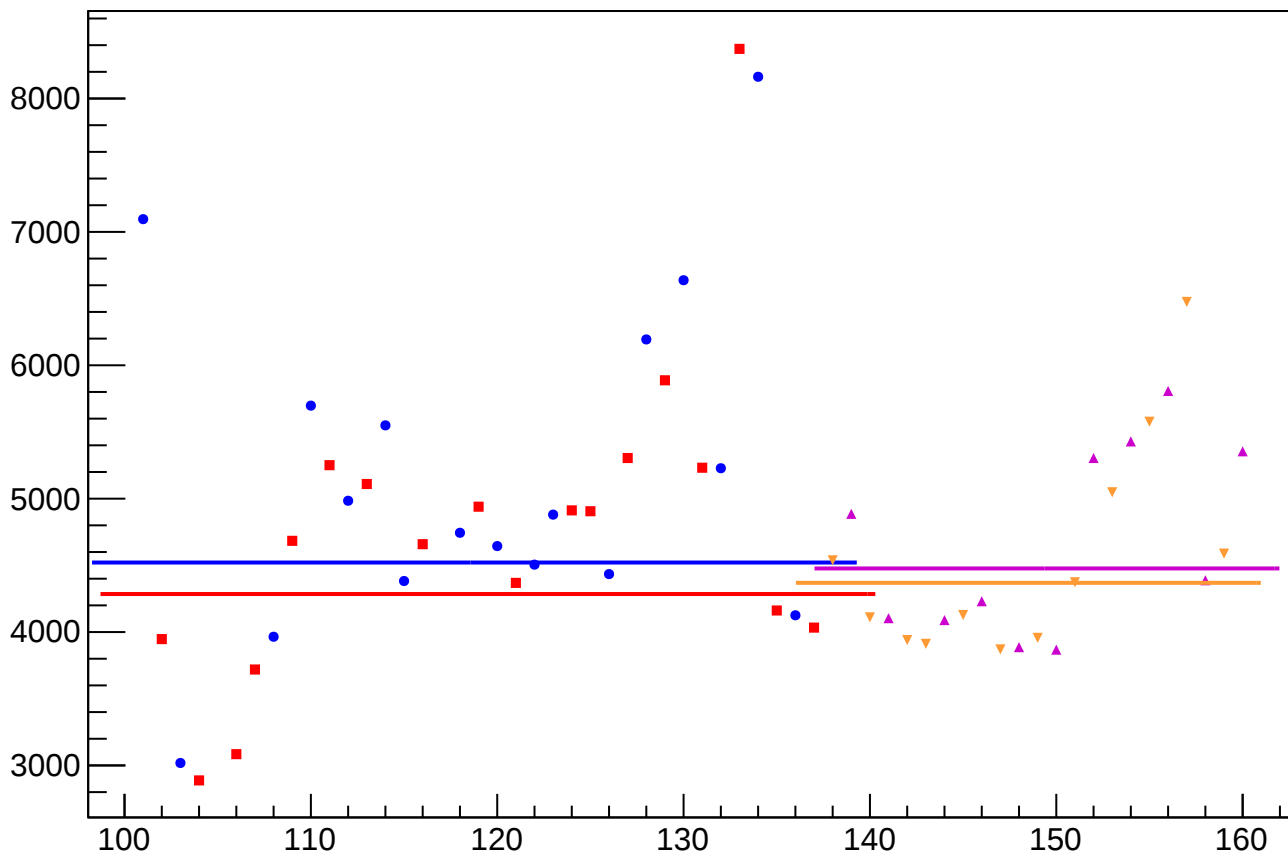
Right: -1511.498 $\pm$ 1233.889  $\chi^2$ /NDF: 31.1/34

In: -262.059 $\pm$ 1154.721  $\chi^2$ /NDF:29.8/27

Out: 804.354 $\pm$ 1109.851  $\chi^2$ /NDF:30.0/29

All: 292.269 $\pm$ 800.176  $\chi^2$ /NDF: 60.2/57

# asym\_atr\_dd\_rms vs Slug, Sign Corrected



Right In: 4521.230 $\pm$ 1.274  $\chi^2/\text{NDF}$ : 778675.0/16

Left Out: 4369.014 $\pm$ 1.039  $\chi^2/\text{NDF}$ : 355859.5/11

Right Out: 4285.069 $\pm$ 1.191  $\chi^2/\text{NDF}$ : 746400.9/17

Left In: 4476.885 $\pm$ 1.064  $\chi^2/\text{NDF}$ : 342619.3/10

Left: 4421.698 $\pm$ 0.743  $\chi^2/\text{NDF}$ : 703741.3/22

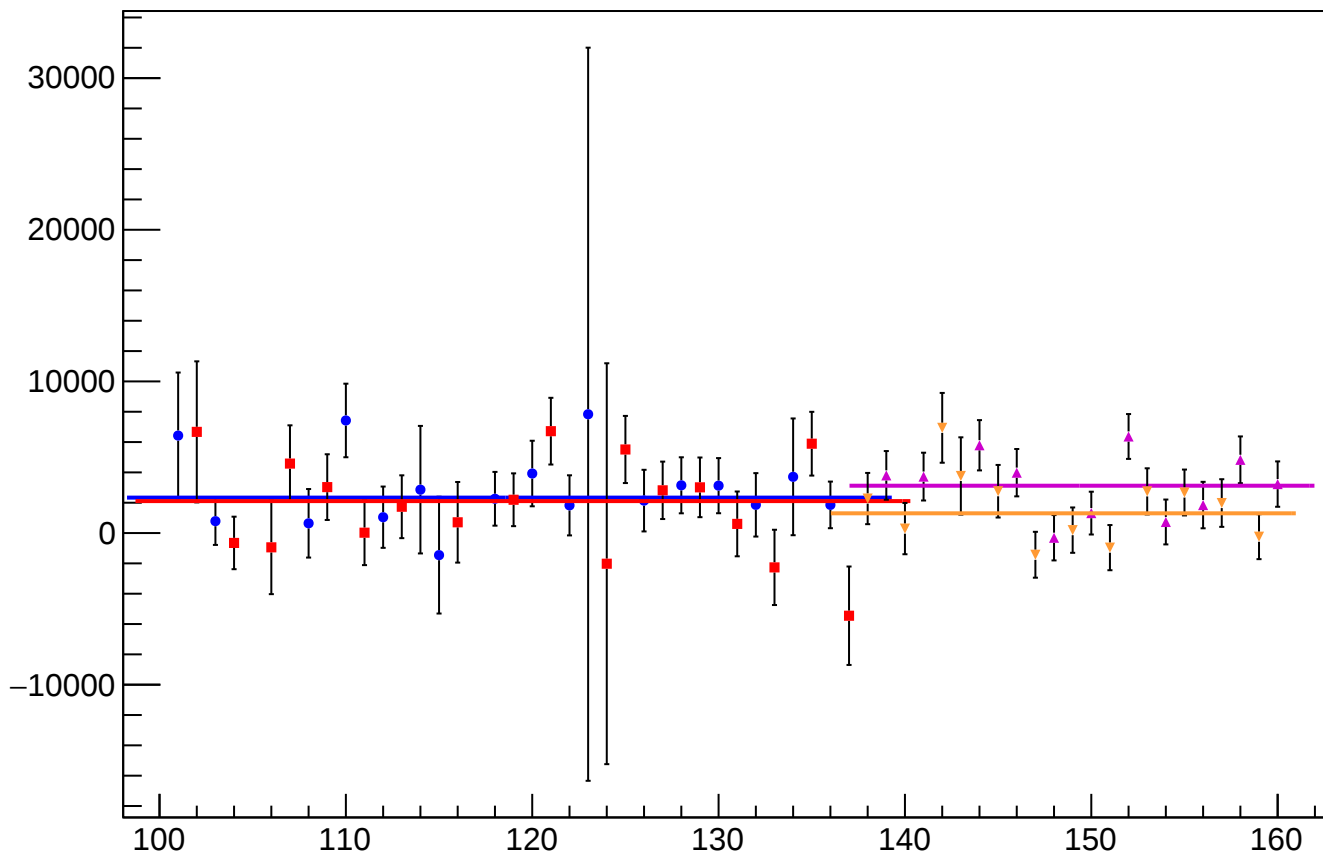
Right: 4395.146 $\pm$ 0.870  $\chi^2/\text{NDF}$ : 1543416.6/34

In: 4495.095 $\pm$ 0.817  $\chi^2/\text{NDF}$ : 1122008.1/27

Out: 4332.713 $\pm$ 0.783  $\chi^2/\text{NDF}$ : 1105082.2/29

All: 4410.493 $\pm$ 0.565  $\chi^2/\text{NDF}$ : 2247696.4/57

dit\_asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 2336.975 $\pm$ 531.132  $\chi^2$ /NDF: 9.6/16

Left Out: 1301.729 $\pm$ 474.481  $\chi^2$ /NDF:17.5/11

Right Out: 2107.117 $\pm$ 539.611  $\chi^2$ /NDF: 26.4/17

Left In: 3121.543 $\pm$ 460.219  $\chi^2$ /NDF:19.5/10

Left: 2239.397 $\pm$ 330.351  $\chi^2$ /NDF: 44.5/22

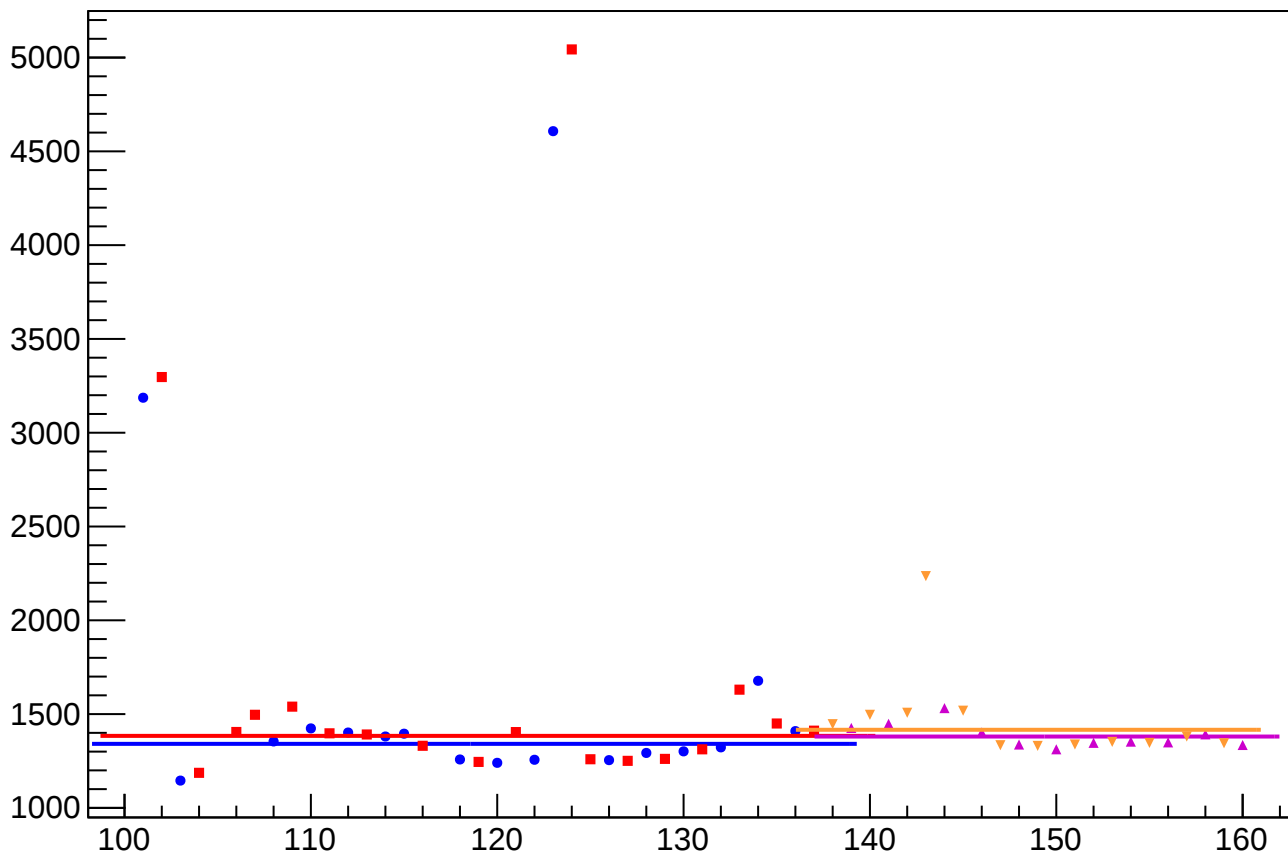
Right: 2223.866 $\pm$ 378.529  $\chi^2$ /NDF: 36.1/34

In: 2785.095 $\pm$ 347.813  $\chi^2$ /NDF:30.4/27

Out: 1652.910 $\pm$ 356.323  $\chi^2$ /NDF:45.1/29

All: 2232.682 $\pm$ 248.895  $\chi^2$ /NDF: 80.6/57

dit\_asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 1341.374+/-0.376  $\chi^2/\text{NDF}$ : 504272.1/16

Left Out: 1416.379+/-0.336  $\chi^2/\text{NDF}$ : 253415.2/11

Right Out: 1383.916+/-0.381  $\chi^2/\text{NDF}$ : 593846.2/17

Left In: 1380.371+/-0.325  $\chi^2/\text{NDF}$ : 33162.9/10

Left: 1397.826+/-0.234  $\chi^2/\text{NDF}$ : 292512.8/22

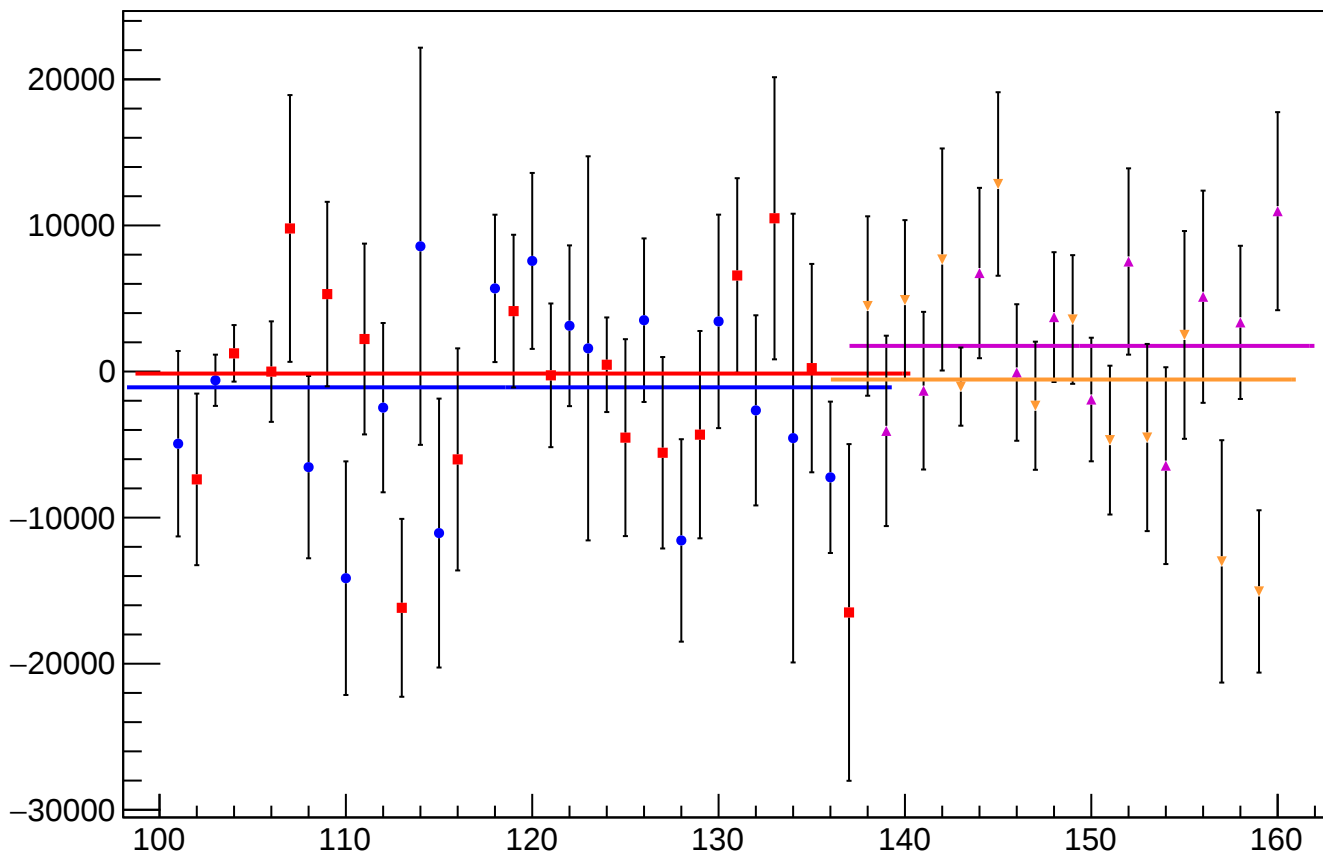
Right: 1362.318+/-0.268  $\chi^2/\text{NDF}$ : 1104435.3/34

In: 1363.648+/-0.246  $\chi^2/\text{NDF}$ : 543593.2/27

Out: 1402.217+/-0.252  $\chi^2/\text{NDF}$ : 851345.6/29

All: 1382.470+/-0.176  $\chi^2/\text{NDF}$ : 1406940.5/57

asym\_atl\_avg\_atr\_avg\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -1081.040+/-1212.382  $\chi^2/\text{NDF}$ : 15.0/16

Left Out: -546.726+/-1450.145  $\chi^2/\text{NDF}$ : 18.7/11

Right Out: -138.838+/-1129.319  $\chi^2/\text{NDF}$ : 18.0/17

Left In: 1755.461+/-1658.877  $\chi^2/\text{NDF}$ : 7.4/10

Left: 450.498+/-1091.793  $\chi^2/\text{NDF}$ : 27.2/22

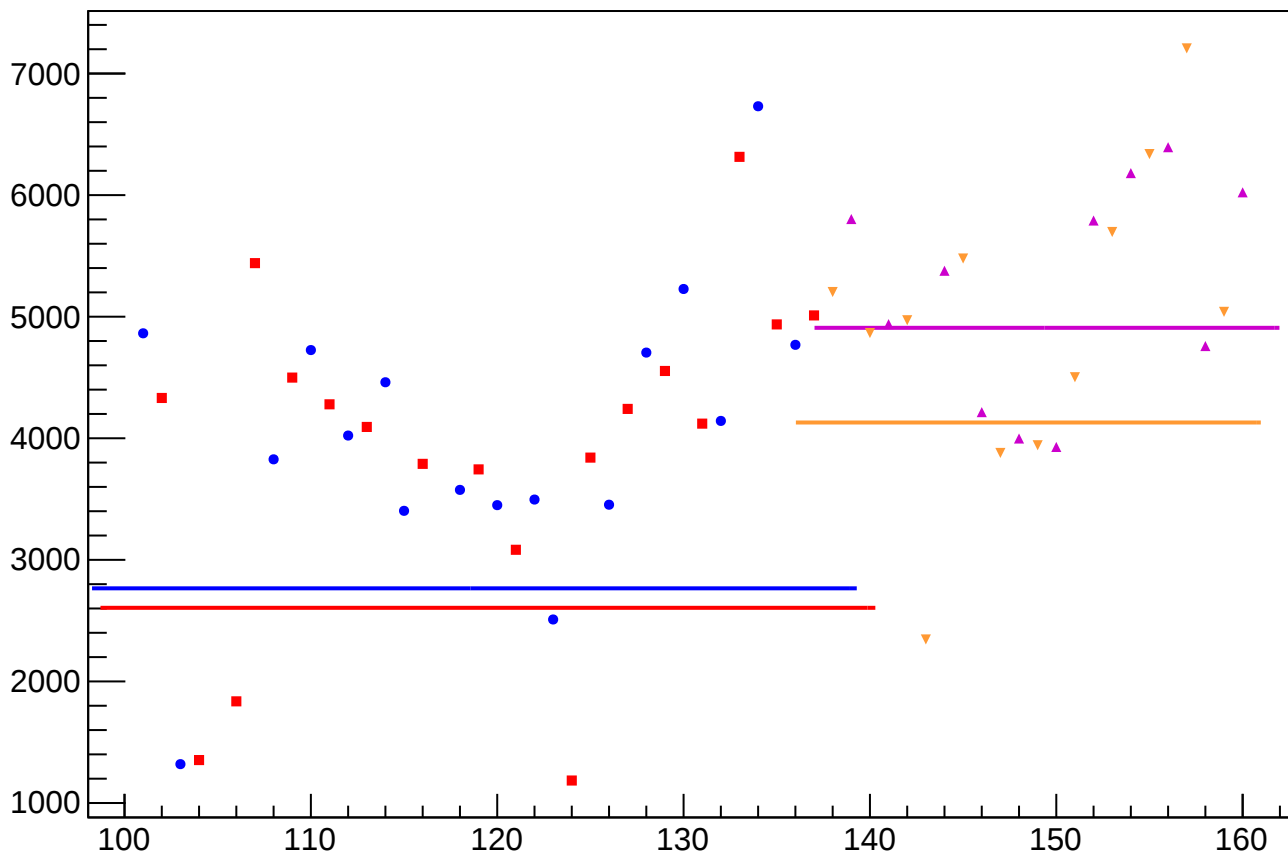
Right: -576.559+/-826.355  $\chi^2/\text{NDF}$ : 33.3/34

In: -93.464+/-978.831  $\chi^2/\text{NDF}$ : 24.3/27

Out: -292.823+/-891.005  $\chi^2/\text{NDF}$ : 36.8/29

All: -202.487+/-658.902  $\chi^2/\text{NDF}$ : 61.1/57

asym\_atl\_avg\_atr\_avg\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 2765.736 $\pm$ 0.857  $\chi^2$ /NDF: 2939083.2/16

Left Out: 4129.729 $\pm$ 1.025  $\chi^2$ /NDF: 1766517.5/11

Right Out: 2605.528 $\pm$ 0.799  $\chi^2$ /NDF: 3322334.9/17

Left In: 4908.499 $\pm$ 1.173  $\chi^2$ /NDF: 535180.9/10

Left: 4467.064 $\pm$ 0.772  $\chi^2$ /NDF: 2551547.5/22

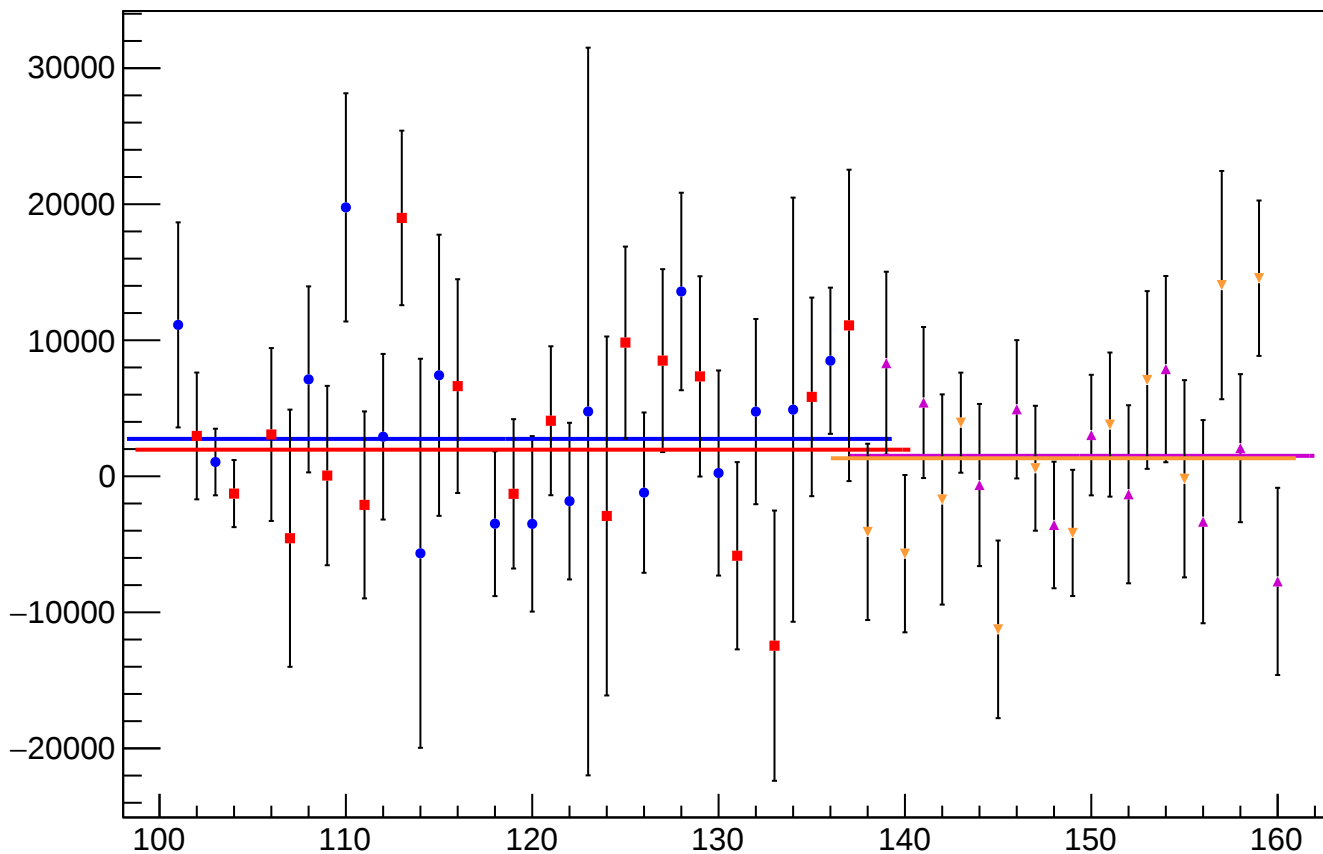
Right: 2679.956 $\pm$ 0.584  $\chi^2$ /NDF: 6280117.2/34

In: 3511.775 $\pm$ 0.692  $\chi^2$ /NDF: 5649398.8/27

Out: 3180.940 $\pm$ 0.630  $\chi^2$ /NDF: 6464219.3/29

All: 3330.853 $\pm$ 0.466  $\chi^2$ /NDF: 12238562.9/55

asym\_atl\_avg\_atr\_avg\_avg\_mean vs Slug, Sign Corrected



Right In: 2748.280+/-1446.638  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 1325.464+/-1612.351  $\chi^2/\text{NDF}$ : 16.7/11

Right Out: 1955.923+/-1384.301  $\chi^2/\text{NDF}$ : 17.8/17

Left In: 1504.707+/-1724.972  $\chi^2/\text{NDF}$ : 6.7/10

Left: 1409.044+/-1177.908  $\chi^2/\text{NDF}$ : 23.4/22

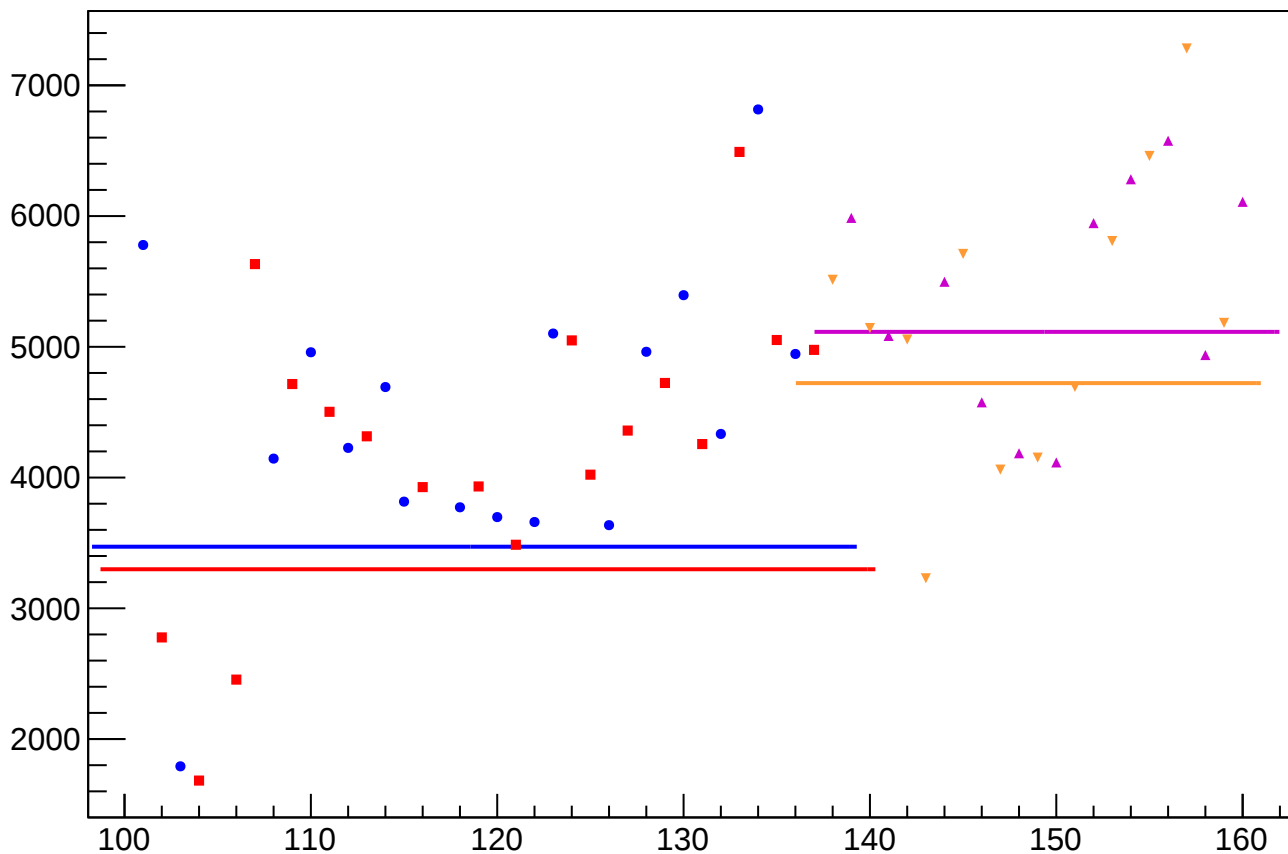
Right: 2334.662+/-1000.160  $\chi^2/\text{NDF}$ : 31.7/34

In: 2234.793+/-1108.438  $\chi^2/\text{NDF}$ : 20.8/27

Out: 1688.396+/-1050.304  $\chi^2/\text{NDF}$ : 34.5/29

All: 1946.891+/-762.400  $\chi^2/\text{NDF}$ : 55.5/57

asym\_atl\_avg\_atr\_avg\_avg\_rms vs Slug, Sign Corrected



Right In: 3471.154+/-1.023  $\chi^2/\text{NDF}$ : 1767892.8/16

Left Out: 4722.404+/-1.140  $\chi^2/\text{NDF}$ : 860372.4/11

Right Out: 3298.657+/-0.970  $\chi^2/\text{NDF}$ : 1886021.8/17

Left In: 5114.341+/-1.220  $\chi^2/\text{NDF}$ : 456694.3/10

Left: 4905.161+/-0.833  $\chi^2/\text{NDF}$ : 1372173.2/22

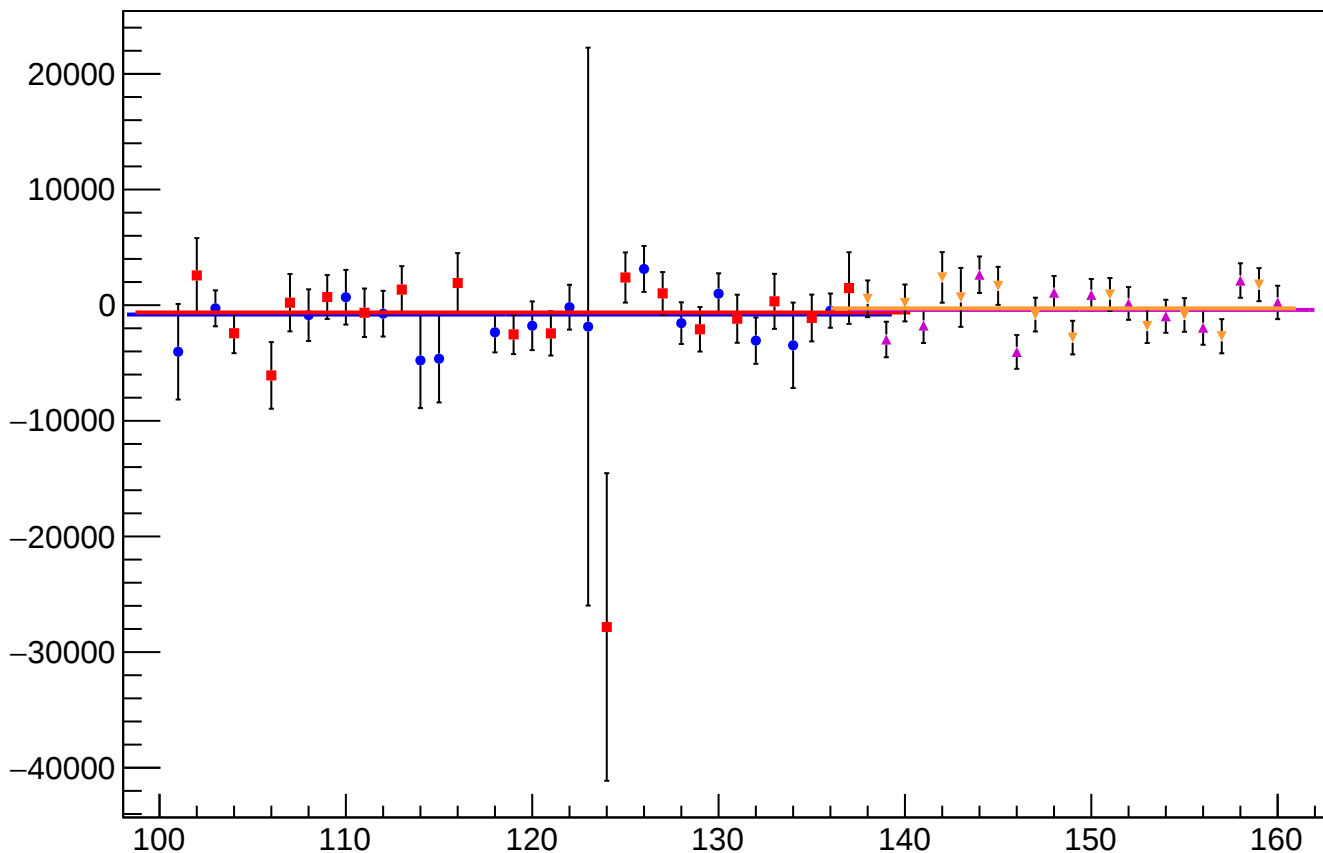
Right: 3380.318+/-0.704  $\chi^2/\text{NDF}$ : 3668889.8/34

In: 4149.627+/-0.784  $\chi^2/\text{NDF}$ : 3290081.8/27

Out: 3896.404+/-0.739  $\chi^2/\text{NDF}$ : 3651132.9/29

All: 4015.531+/-0.538  $\chi^2/\text{NDF}$ : 6996491.2/57

dit\_asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -809.017+/-518.190  $\chi^2/\text{NDF}$ : 11.2/16

Left Out: -276.483+/-454.486  $\chi^2/\text{NDF}$ :13.2/11

Right Out: -630.651+/-514.931  $\chi^2/\text{NDF}$ : 18.6/17

Left In: -408.717+/-441.639  $\chi^2/\text{NDF}$ :20.0/10

Left: -344.495+/-316.730  $\chi^2/\text{NDF}$ : 33.2/22

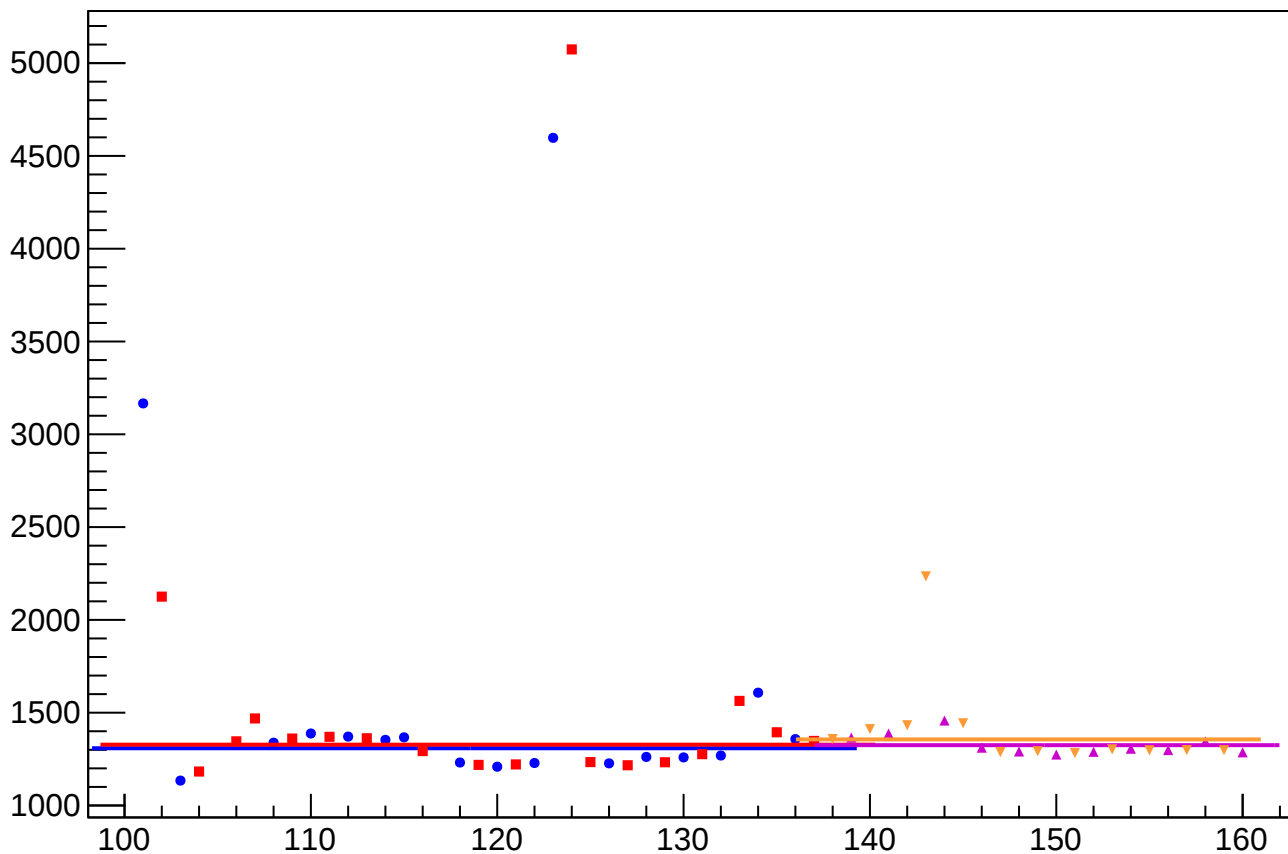
Right: -719.271+/-365.258  $\chi^2/\text{NDF}$ : 29.8/34

In: -577.142+/-336.125  $\chi^2/\text{NDF}$ :31.5/27

Out: -431.569+/-340.747  $\chi^2/\text{NDF}$ :32.1/29

All: -505.350+/-239.293  $\chi^2/\text{NDF}$ : 63.6/57

dit\_asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 1308.367+/-0.366  $\chi^2/\text{NDF}$ : 506545.0/16

Left Out: 1355.971+/-0.321  $\chi^2/\text{NDF}$ : 274136.4/11

Right Out: 1327.647+/-0.364  $\chi^2/\text{NDF}$ : 357330.6/17

Left In: 1324.958+/-0.312  $\chi^2/\text{NDF}$ : 27028.0/10

Left: 1340.020+/-0.224  $\chi^2/\text{NDF}$ : 305954.1/22

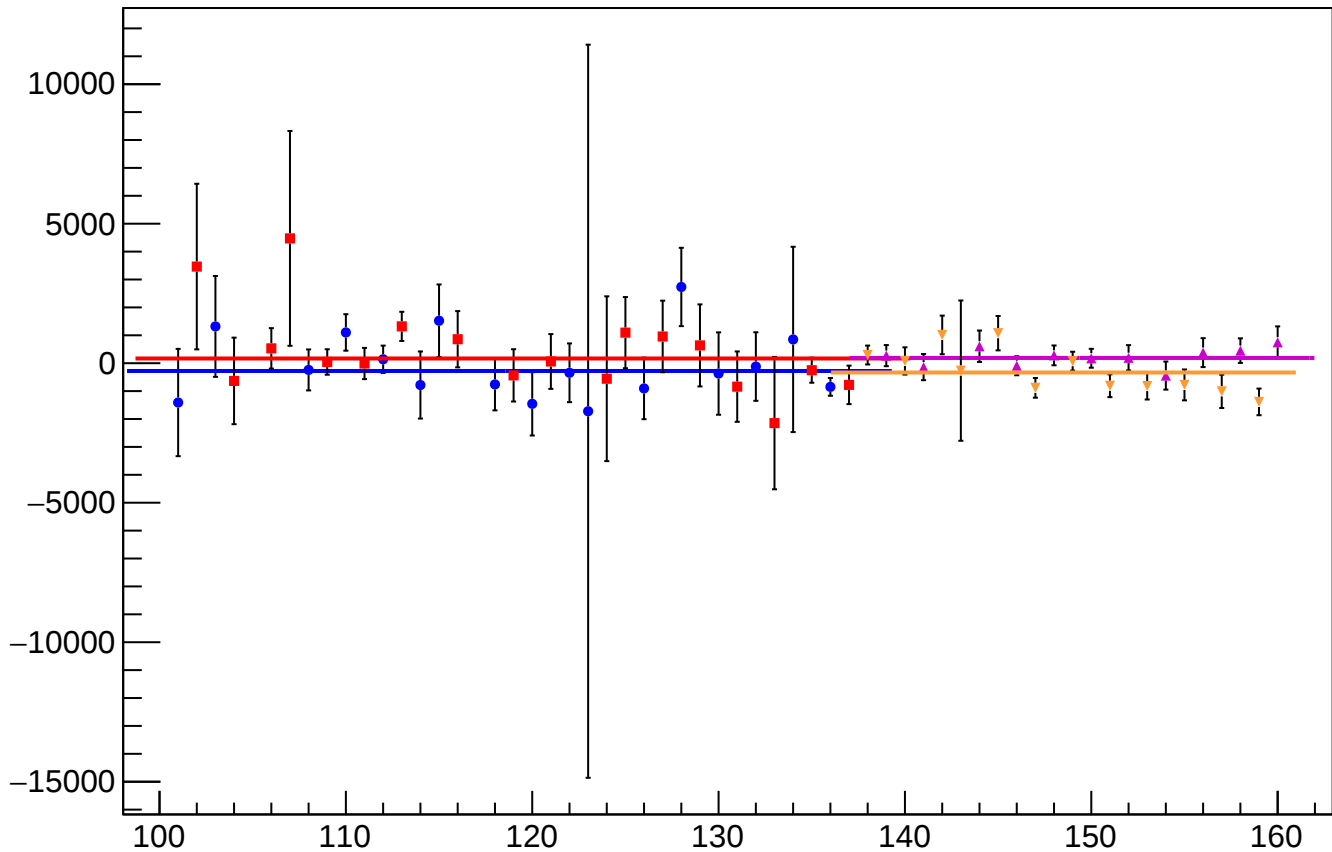
Right: 1318.067+/-0.258  $\chi^2/\text{NDF}$ : 865268.7/34

In: 1317.977+/-0.238  $\chi^2/\text{NDF}$ : 534760.7/27

Out: 1343.568+/-0.241  $\chi^2/\text{NDF}$ : 634868.6/29

All: 1330.598+/-0.169  $\chi^2/\text{NDF}$ : 1175346.6/57

asym\_atl\_avg\_atr\_avg\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -278.710+/-198.123  $\chi^2/\text{NDF}$ : 18.0/16

Left Out: -332.947+/-134.370  $\chi^2/\text{NDF}$ : 26.2/11

Right Out: 169.608+/-192.488  $\chi^2/\text{NDF}$ : 14.4/17

Left In: 187.698+/-128.252  $\chi^2/\text{NDF}$ : 4.9/10

Left: -60.503+/-92.775  $\chi^2/\text{NDF}$ : 39.0/22

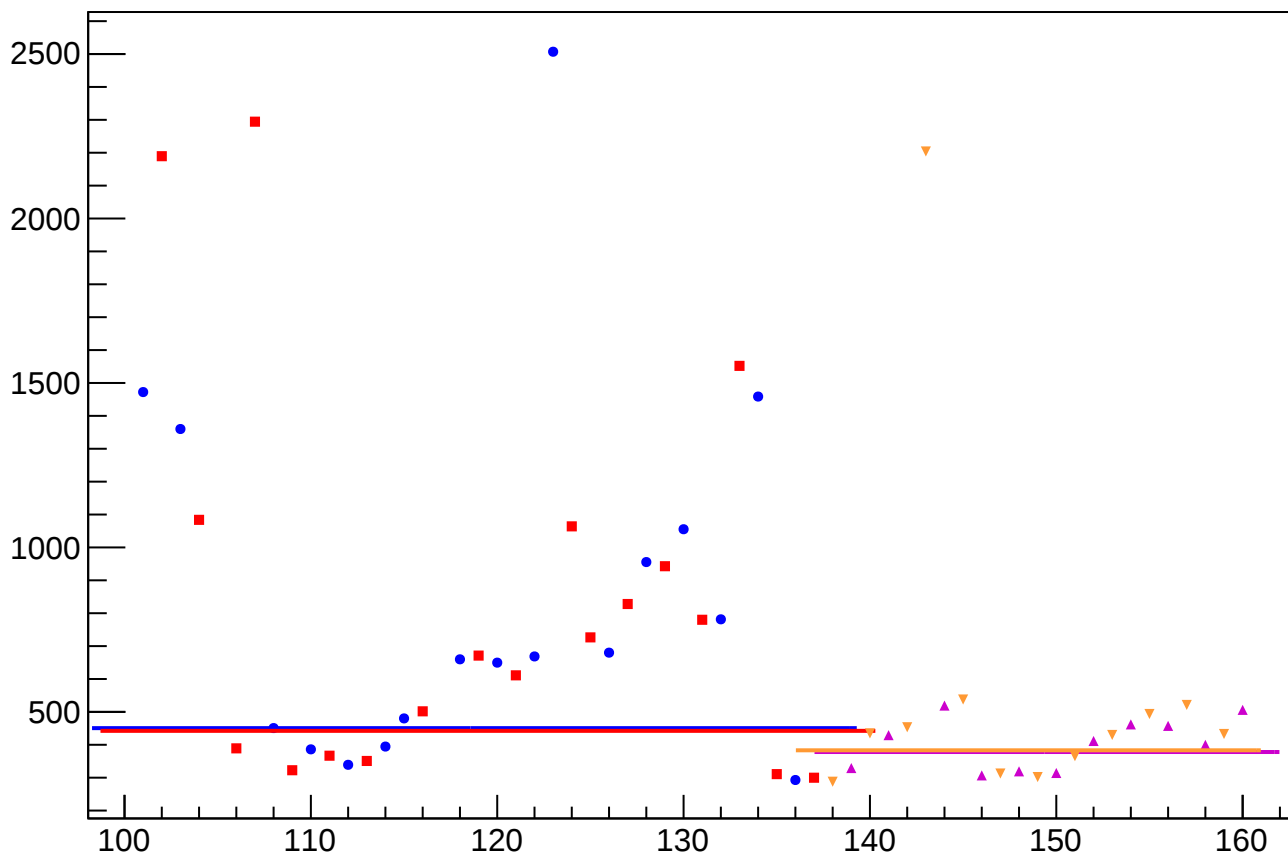
Right: -48.085+/-138.058  $\chi^2/\text{NDF}$ : 35.0/34

In: 49.968+/-107.663  $\chi^2/\text{NDF}$ : 26.8/27

Out: -168.290+/-110.180  $\chi^2/\text{NDF}$ : 45.2/29

All: -56.640+/-77.004  $\chi^2/\text{NDF}$ : 74.0/57

asym\_atl\_avg\_atr\_avg\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 450.595 $\pm$ 0.140  $\chi^2$ /NDF: 2997735.1/16

Left Out: 383.199 $\pm$ 0.095  $\chi^2$ /NDF:1803227.9/11

Right Out: 442.368 $\pm$ 0.136  $\chi^2$ /NDF: 3368329.0/17

Left In: 378.020 $\pm$ 0.091  $\chi^2$ /NDF:616326.7/10

Left: 380.489 $\pm$ 0.066  $\chi^2$ /NDF: 2421109.3/22

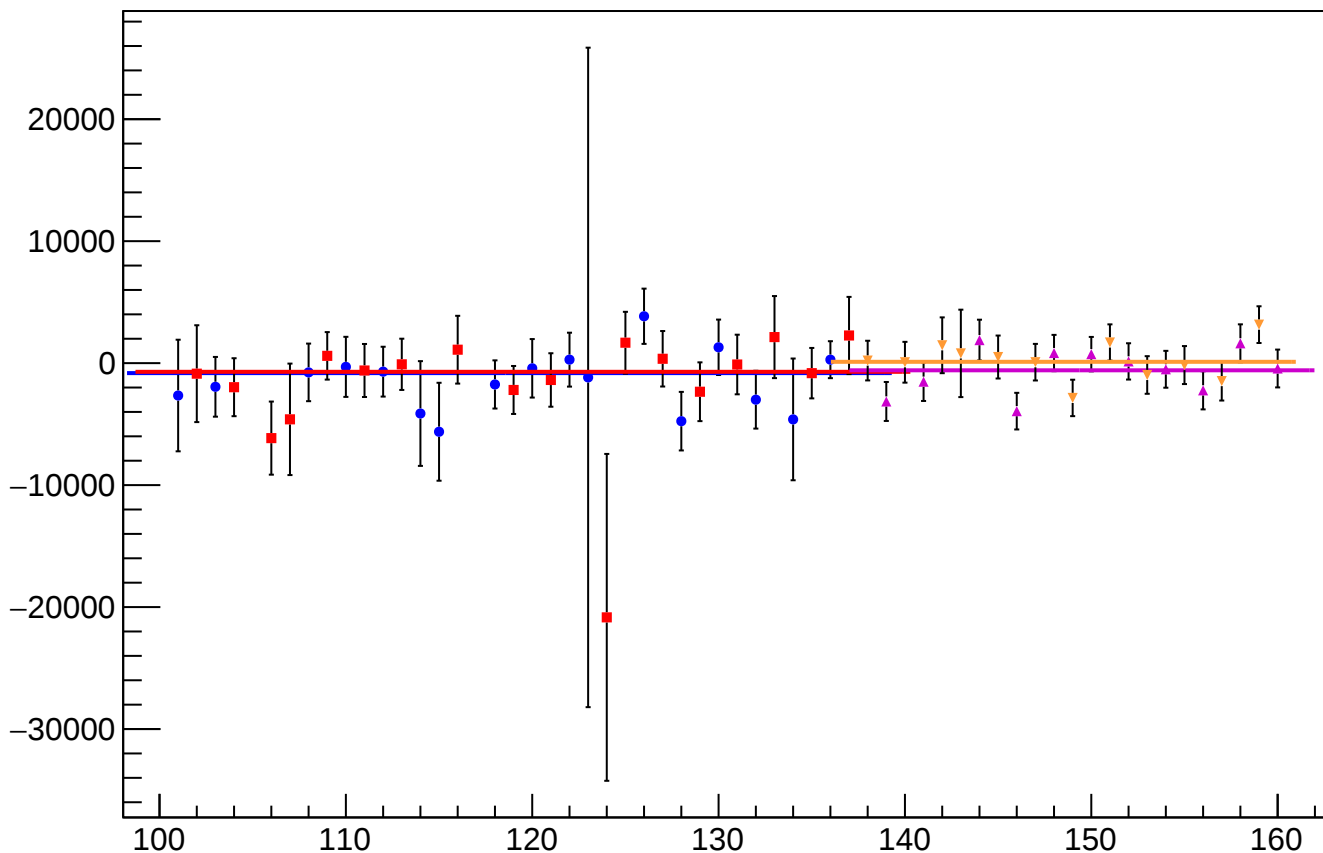
Right: 446.363 $\pm$ 0.098  $\chi^2$ /NDF: 6367838.5/34

In: 399.452 $\pm$ 0.076  $\chi^2$ /NDF:3803183.9/27

Out: 402.585 $\pm$ 0.078  $\chi^2$ /NDF:5298616.0/29

All: 400.982 $\pm$ 0.054  $\chi^2$ /NDF: 9102627.4/57

asym\_atl\_avg\_atr\_avg\_dd\_mean vs Slug, Sign Corrected



Right In: -817.110+/-601.150  $\chi^2$ /NDF: 12.7/16

Left Out: 108.870+/-479.998  $\chi^2$ /NDF:11.1/11

Right Out: -710.618+/-596.065  $\chi^2$ /NDF: 11.4/17

Left In: -587.989+/-462.561  $\chi^2$ /NDF:15.2/10

Left: -252.447+/-333.074  $\chi^2$ /NDF: 27.4/22

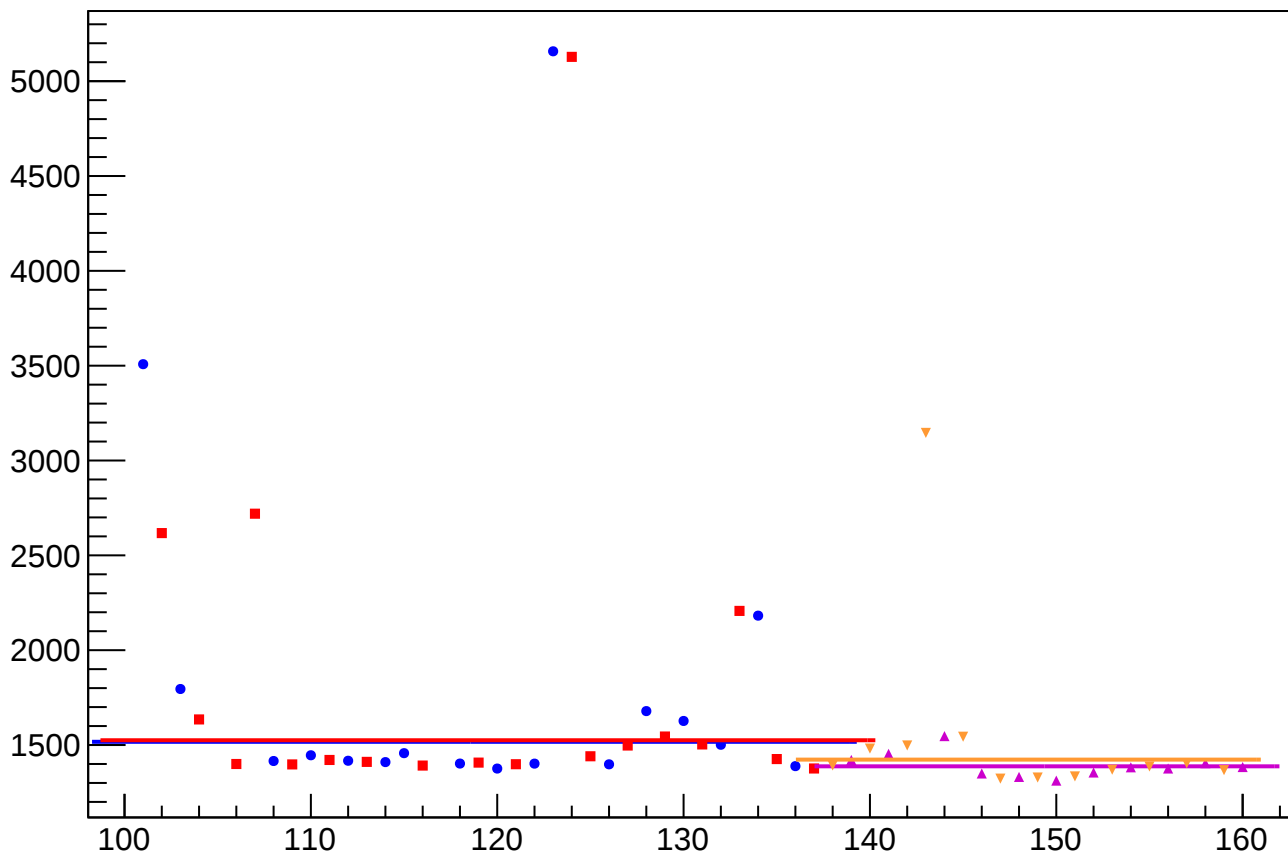
Right: -763.412+/-423.268  $\chi^2$ /NDF: 24.1/34

In: -673.196+/-366.596  $\chi^2$ /NDF:28.0/27

Out: -213.499+/-373.851  $\chi^2$ /NDF:23.7/29

All: -447.851+/-261.750  $\chi^2$ /NDF: 52.5/57

asym\_atl\_avg\_atr\_avg\_dd\_rms vs Slug, Sign Corrected



Right In: 1516.935+/-0.425  $\chi^2/\text{NDF}$ : 541039.6/16

Left Out: 1423.038+/-0.339  $\chi^2/\text{NDF}$ : 507265.1/11

Right Out: 1525.099+/-0.421  $\chi^2/\text{NDF}$ : 571929.2/17

Left In: 1387.671+/-0.327  $\chi^2/\text{NDF}$ : 33566.2/10

Left: 1404.701+/-0.236  $\chi^2/\text{NDF}$ : 546461.0/22

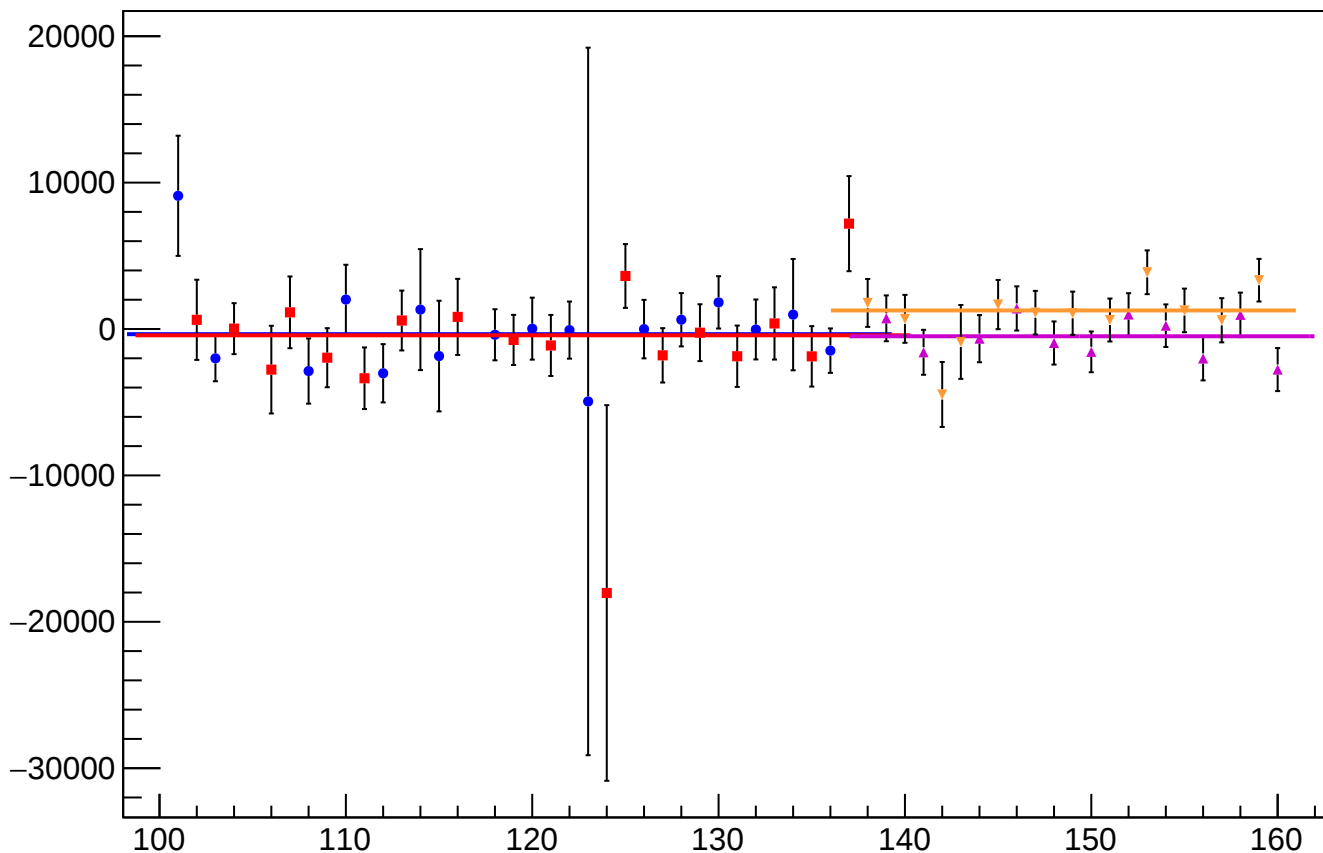
Right: 1521.052+/-0.299  $\chi^2/\text{NDF}$ : 1113154.8/34

In: 1435.743+/-0.259  $\chi^2/\text{NDF}$ : 632690.0/27

Out: 1463.187+/-0.264  $\chi^2/\text{NDF}$ : 1114764.5/29

All: 1449.196+/-0.185  $\chi^2/\text{NDF}$ : 1752949.0/57

dit\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In: -353.131+/-523.324  $\chi^2/\text{NDF}$ : 13.4/16

Left Out: 1268.937+/-463.993  $\chi^2/\text{NDF}$ :13.2/11

Right Out: -429.167+/-522.342  $\chi^2/\text{NDF}$ : 16.8/17

Left In: -496.399+/-450.823  $\chi^2/\text{NDF}$ :9.0/10

Left: 360.860+/-323.335  $\chi^2/\text{NDF}$ : 29.7/22

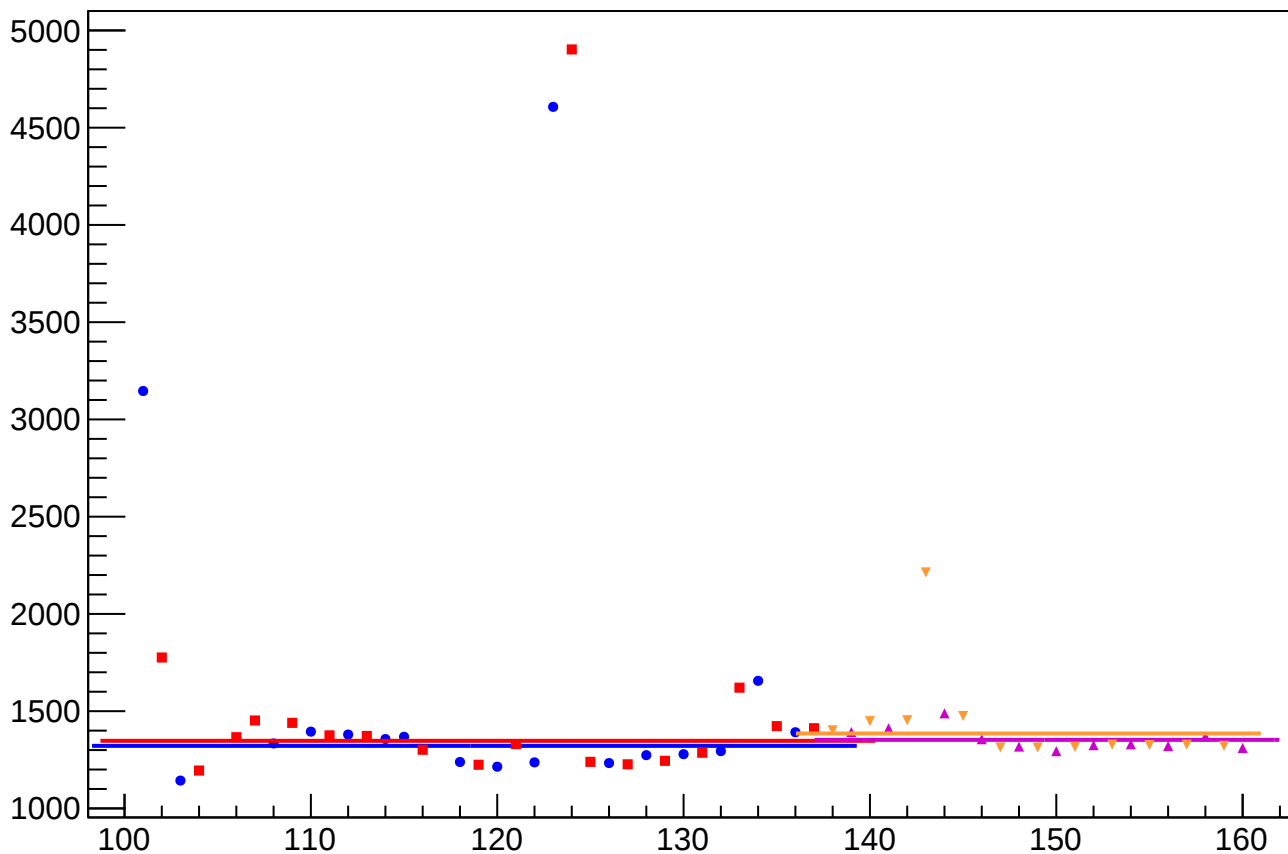
Right: -391.220+/-369.698  $\chi^2/\text{NDF}$ : 30.3/34

In: -435.369+/-341.560  $\chi^2/\text{NDF}$ :22.5/27

Out: 519.990+/-346.895  $\chi^2/\text{NDF}$ :35.9/29

All: 34.909+/-243.384  $\chi^2/\text{NDF}$ : 62.3/57

dit\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 1321.703 $\pm$ 0.370  $\chi^2$ /NDF: 502245.7/16

Left Out: 1385.264 $\pm$ 0.328  $\chi^2$ /NDF: 252813.2/11

Right Out: 1347.646 $\pm$ 0.369  $\chi^2$ /NDF: 286301.2/17

Left In: 1352.614 $\pm$ 0.319  $\chi^2$ /NDF: 27178.9/10

Left: 1368.469 $\pm$ 0.229  $\chi^2$ /NDF: 285086.0/22

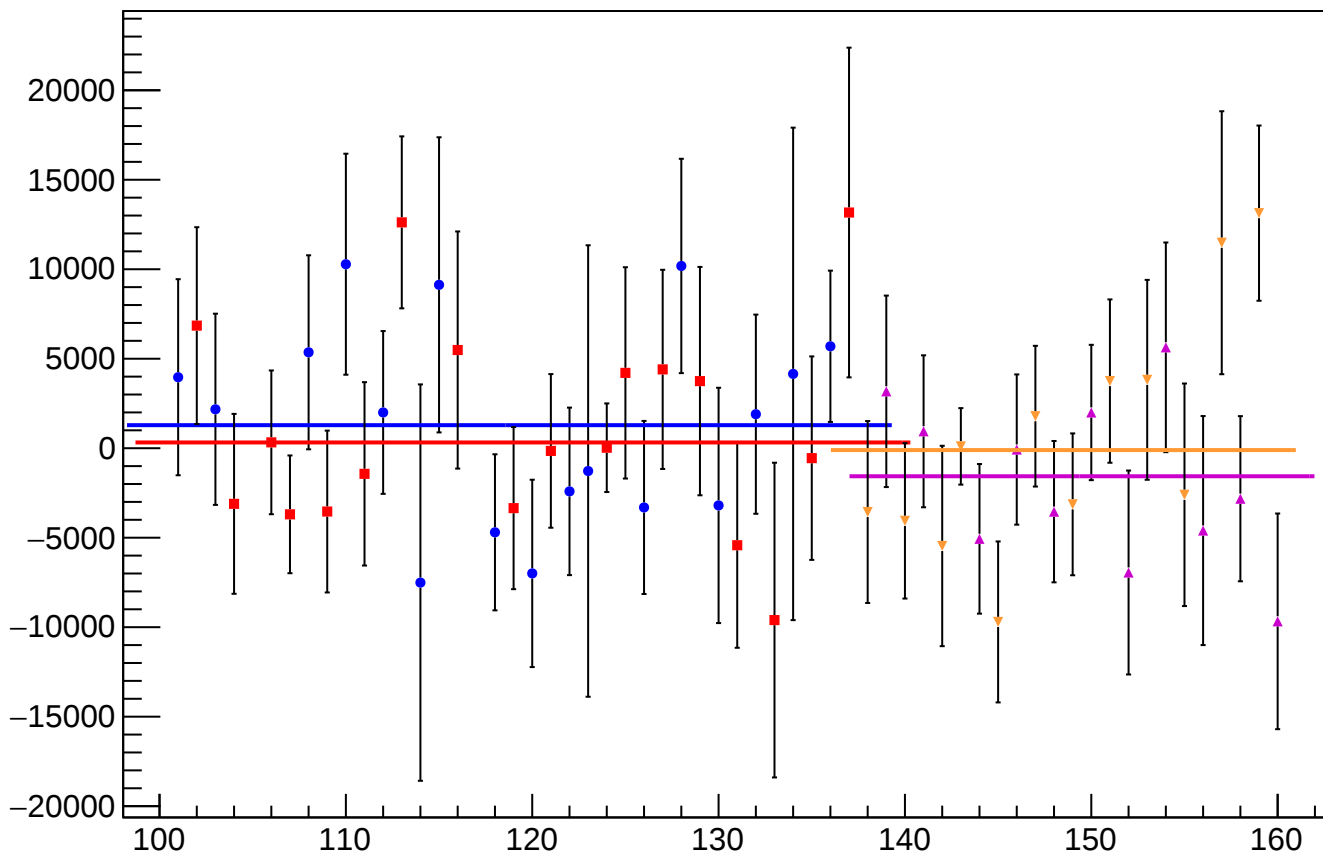
Right: 1334.706 $\pm$ 0.261  $\chi^2$ /NDF: 791010.5/34

In: 1339.446 $\pm$ 0.242  $\chi^2$ /NDF: 533430.2/27

Out: 1368.662 $\pm$ 0.245  $\chi^2$ /NDF: 544915.9/29

All: 1353.831 $\pm$ 0.172  $\chi^2$ /NDF: 1085551.0/57

asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 1287.495+/-1375.853  $\chi^2/\text{NDF}$ : 14.3/16

Left Out: -105.260+/-1206.904  $\chi^2/\text{NDF}$ : 18.8/11

Right Out: 321.508+/-1105.580  $\chi^2/\text{NDF}$ : 17.6/17

Left In: -1566.792+/-1417.888  $\chi^2/\text{NDF}$ : 7.6/10

Left: -719.300+/-919.044  $\chi^2/\text{NDF}$ : 27.0/22

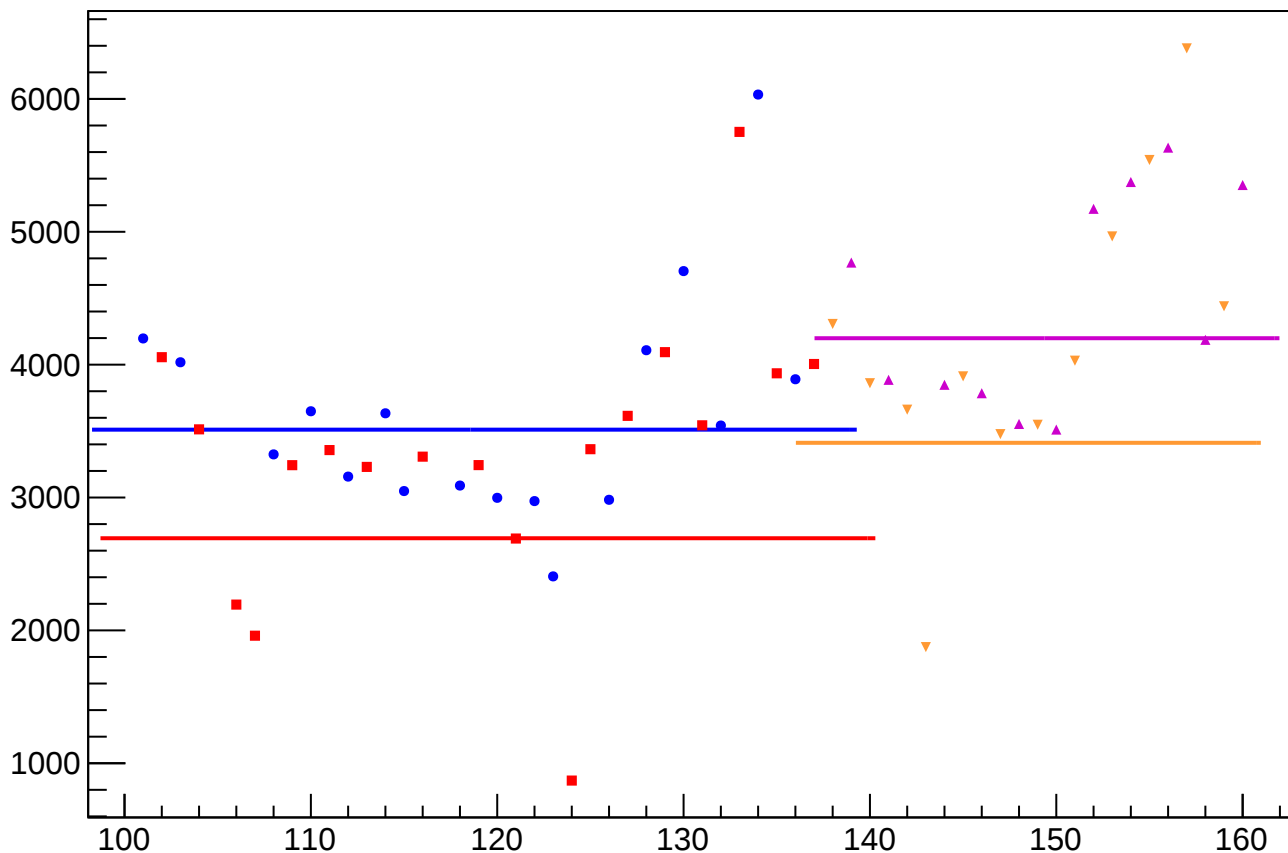
Right: 700.521+/-861.814  $\chi^2/\text{NDF}$ : 32.1/34

In: -96.712+/-987.401  $\chi^2/\text{NDF}$ : 24.0/27

Out: 126.788+/-815.235  $\chi^2/\text{NDF}$ : 36.4/29

All: 36.191+/-628.654  $\chi^2/\text{NDF}$ : 60.4/57

asym\_atl\_dd\_atr\_dd\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 3510.799 $\pm$ 0.973  $\chi^2$ /NDF: 344054.4/16

Left Out: 3411.841 $\pm$ 0.853  $\chi^2$ /NDF:1990187.6/11

Right Out: 2693.503 $\pm$ 0.782  $\chi^2$ /NDF: 2125842.2/17

Left In: 4199.019 $\pm$ 1.003  $\chi^2$ /NDF:499422.2/10

Left: 3742.562 $\pm$ 0.650  $\chi^2$ /NDF: 2847062.4/22

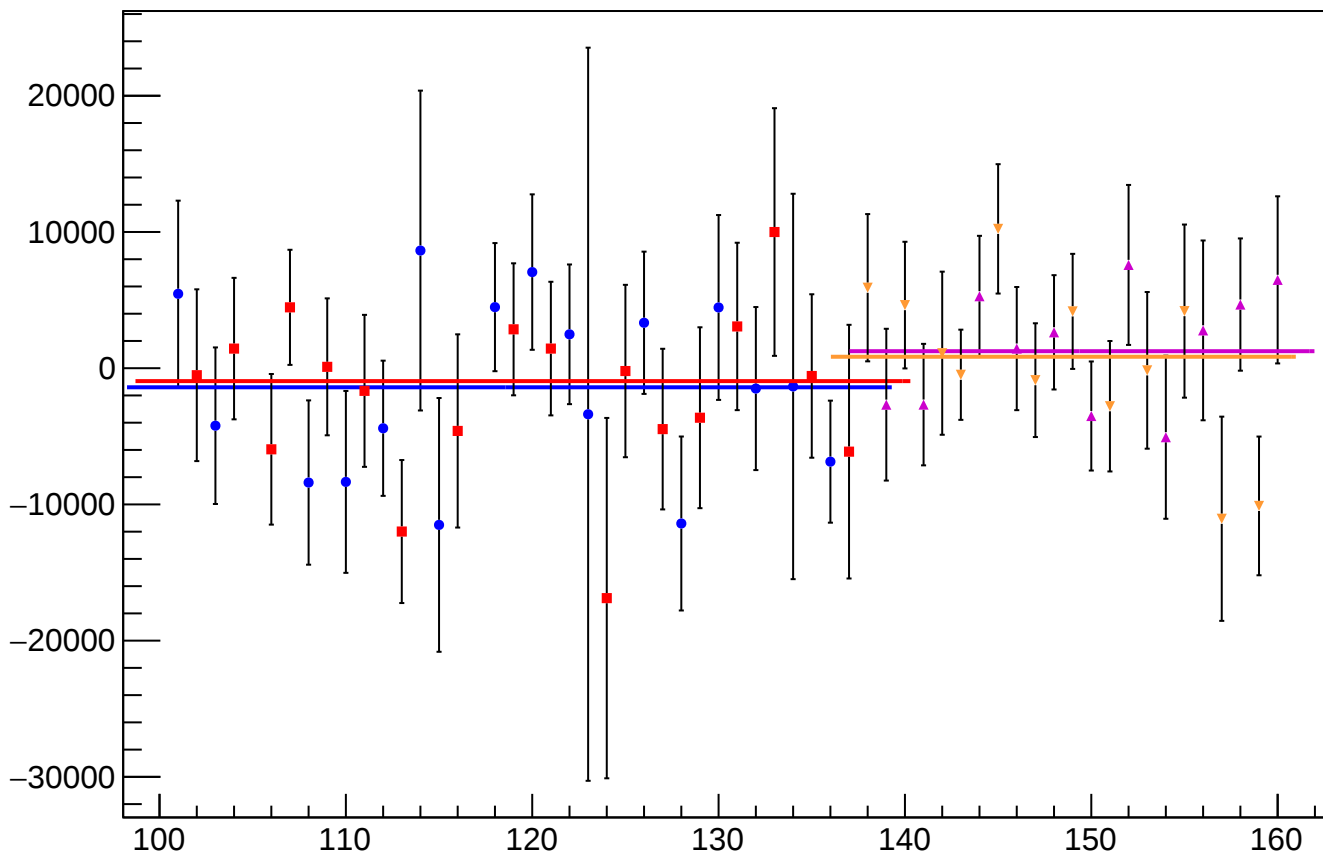
Right: 3014.176 $\pm$ 0.609  $\chi^2$ /NDF: 2898733.2/34

In: 3844.556 $\pm$ 0.698  $\chi^2$ /NDF:1086162.2/27

Out: 3021.257 $\pm$ 0.576  $\chi^2$ /NDF:4501266.5/29

All: 3354.986 $\pm$ 0.445  $\chi^2$ /NDF: 6414256.5/57

asym\_atl\_dd\_atr\_dd\_avg\_mean vs Slug, Sign Corrected



Right In:  $-1401.442 \pm 1504.149$   $\chi^2/\text{NDF}: 15.8/16$

Left Out:  $841.219 \pm 1397.043$   $\chi^2/\text{NDF}: 14.4/11$

Right Out:  $-947.960 \pm 1382.709$   $\chi^2/\text{NDF}: 12.5/17$

Left In:  $1248.496 \pm 1490.146$   $\chi^2/\text{NDF}: 7.2/10$

Left:  $1031.738 \pm 1019.184$   $\chi^2/\text{NDF}: 21.6/22$

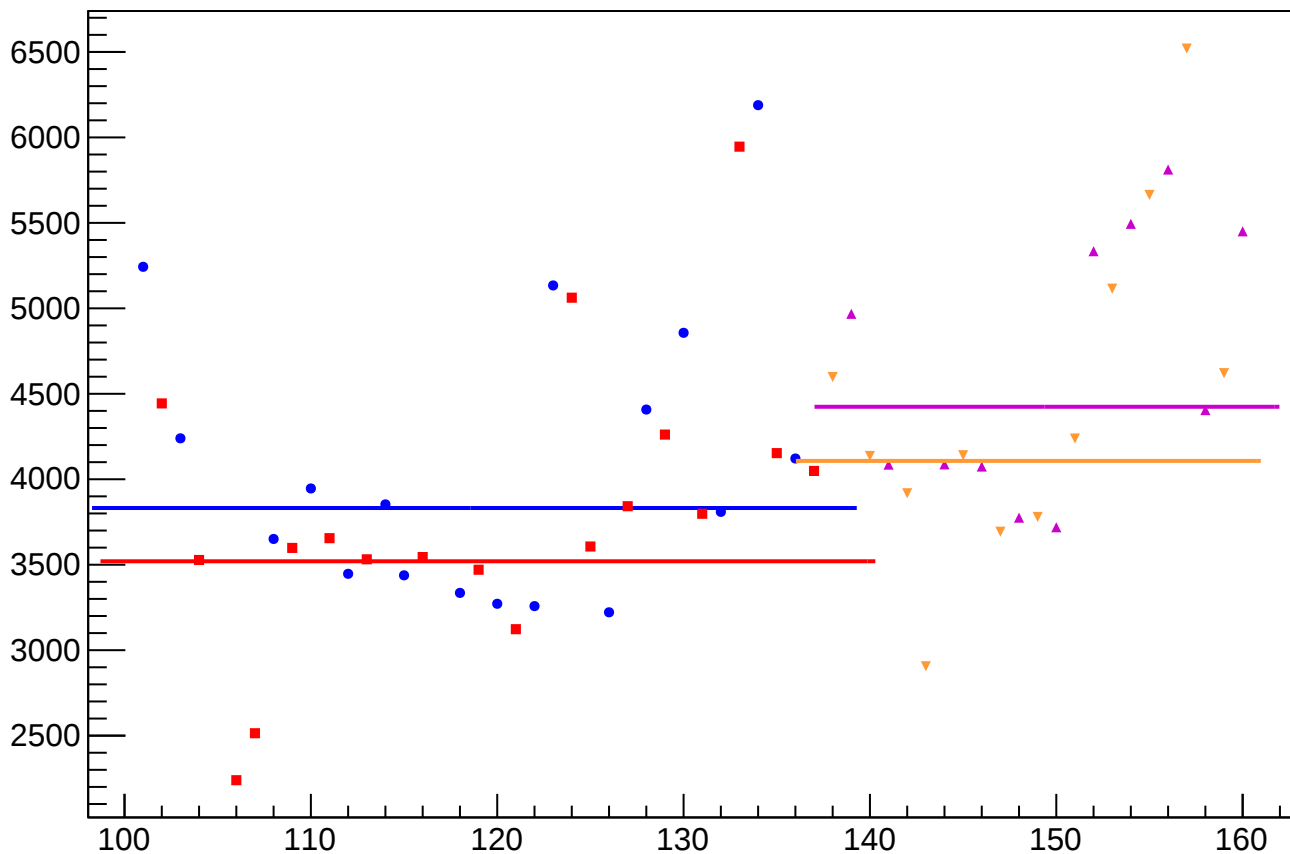
Right:  $-1155.658 \pm 1017.952$   $\chi^2/\text{NDF}: 28.3/34$

In:  $-64.080 \pm 1058.609$   $\chi^2/\text{NDF}: 24.5/27$

Out:  $-62.596 \pm 982.752$   $\chi^2/\text{NDF}: 27.7/29$

All:  $-63.283 \pm 720.236$   $\chi^2/\text{NDF}: 52.3/57$

asym\_atl\_dd\_atr\_dd\_avg\_rms vs Slug, Sign Corrected



Right In: 3831.818 $\pm$ 1.064  $\chi^2$ /NDF: 337707.1/16

Left Out: 4107.387 $\pm$ 0.988  $\chi^2$ /NDF: 724199.0/11

Right Out: 3520.188 $\pm$ 0.969  $\chi^2$ /NDF: 544143.8/17

Left In: 4424.102 $\pm$ 1.054  $\chi^2$ /NDF: 420363.3/10

Left: 4255.542 $\pm$ 0.721  $\chi^2$ /NDF: 1192645.8/22

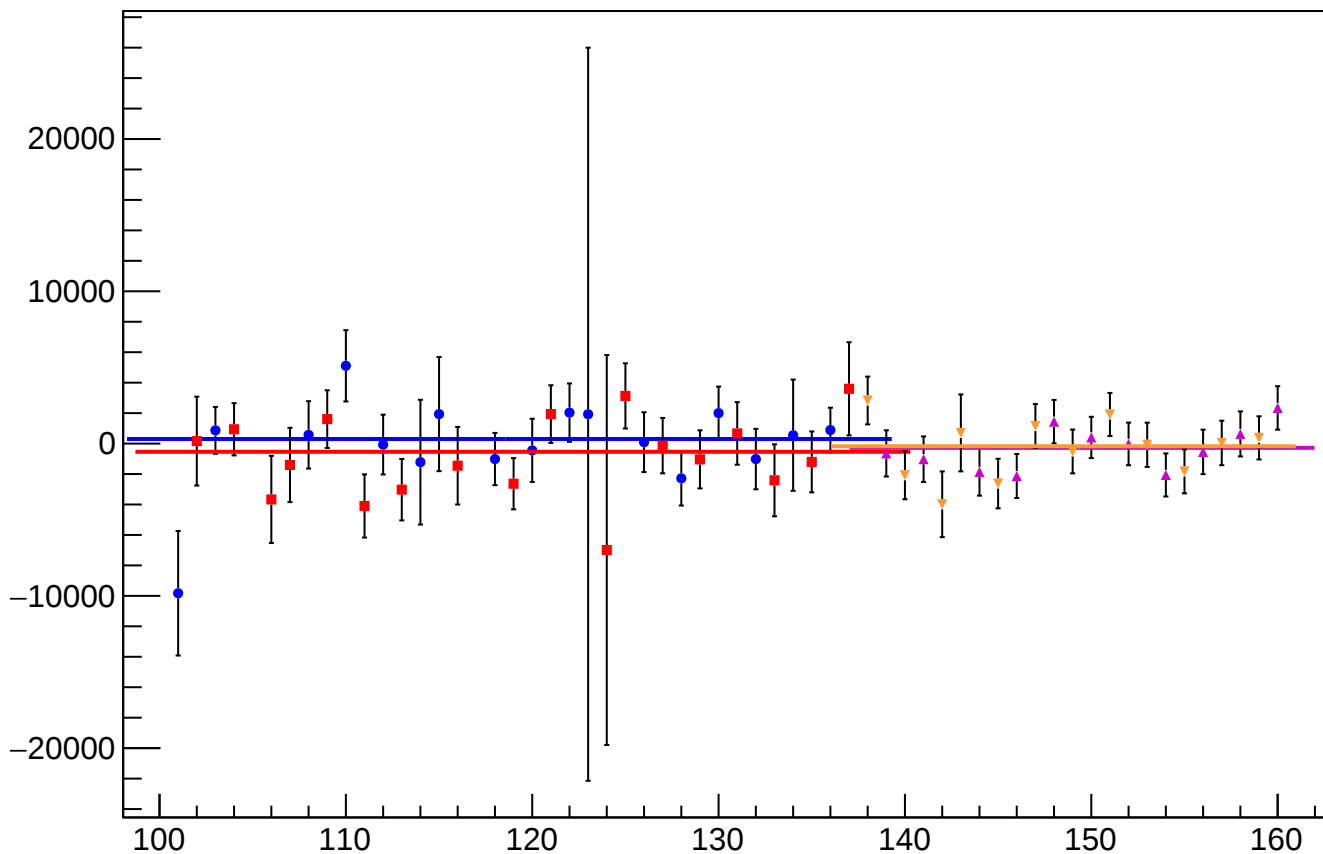
Right: 3661.502 $\pm$ 0.716  $\chi^2$ /NDF: 928771.8/34

In: 4130.722 $\pm$ 0.749  $\chi^2$ /NDF: 914576.9/27

Out: 3808.065 $\pm$ 0.692  $\chi^2$ /NDF: 1448451.4/29

All: 3956.675 $\pm$ 0.508  $\chi^2$ /NDF: 2463254.0/57

dit\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In:  $301.968 \pm 512.834$   $\chi^2/\text{NDF}$ : 16.1/16

Left Out:  $-174.907 \pm 449.819$   $\chi^2/\text{NDF}$ : 15.2/11

Right Out:  $-537.727 \pm 508.684$   $\chi^2/\text{NDF}$ : 17.5/17

Left In:  $-278.077 \pm 437.025$   $\chi^2/\text{NDF}$ : 10.1/10

Left:  $-227.980 \pm 313.449$   $\chi^2/\text{NDF}$ : 25.3/22

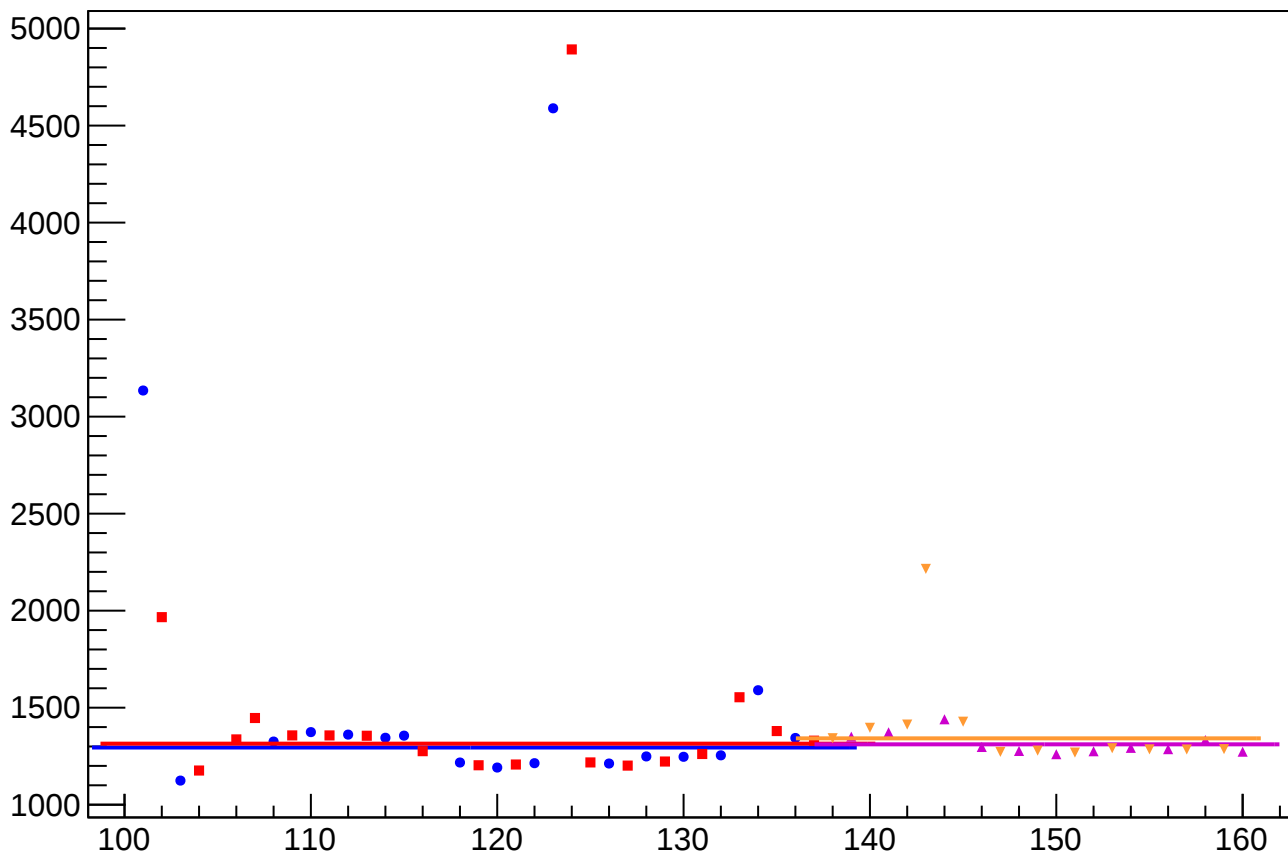
Right:  $-121.291 \pm 361.152$   $\chi^2/\text{NDF}$ : 34.9/34

In:  $-34.055 \pm 332.629$   $\chi^2/\text{NDF}$ : 26.9/27

Out:  $-334.119 \pm 336.969$   $\chi^2/\text{NDF}$ : 33.0/29

All:  $-182.142 \pm 236.724$   $\chi^2/\text{NDF}$ : 60.3/57

dit\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1294.729+/-0.363  $\chi^2/\text{NDF}$ : 507803.9/16

Left Out: 1341.936+/-0.318  $\chi^2/\text{NDF}$ : 274798.4/11

Right Out: 1314.588+/-0.360  $\chi^2/\text{NDF}$ : 333838.6/17

Left In: 1311.103+/-0.309  $\chi^2/\text{NDF}$ : 26706.2/10

Left: 1326.075+/-0.222  $\chi^2/\text{NDF}$ : 306338.6/22

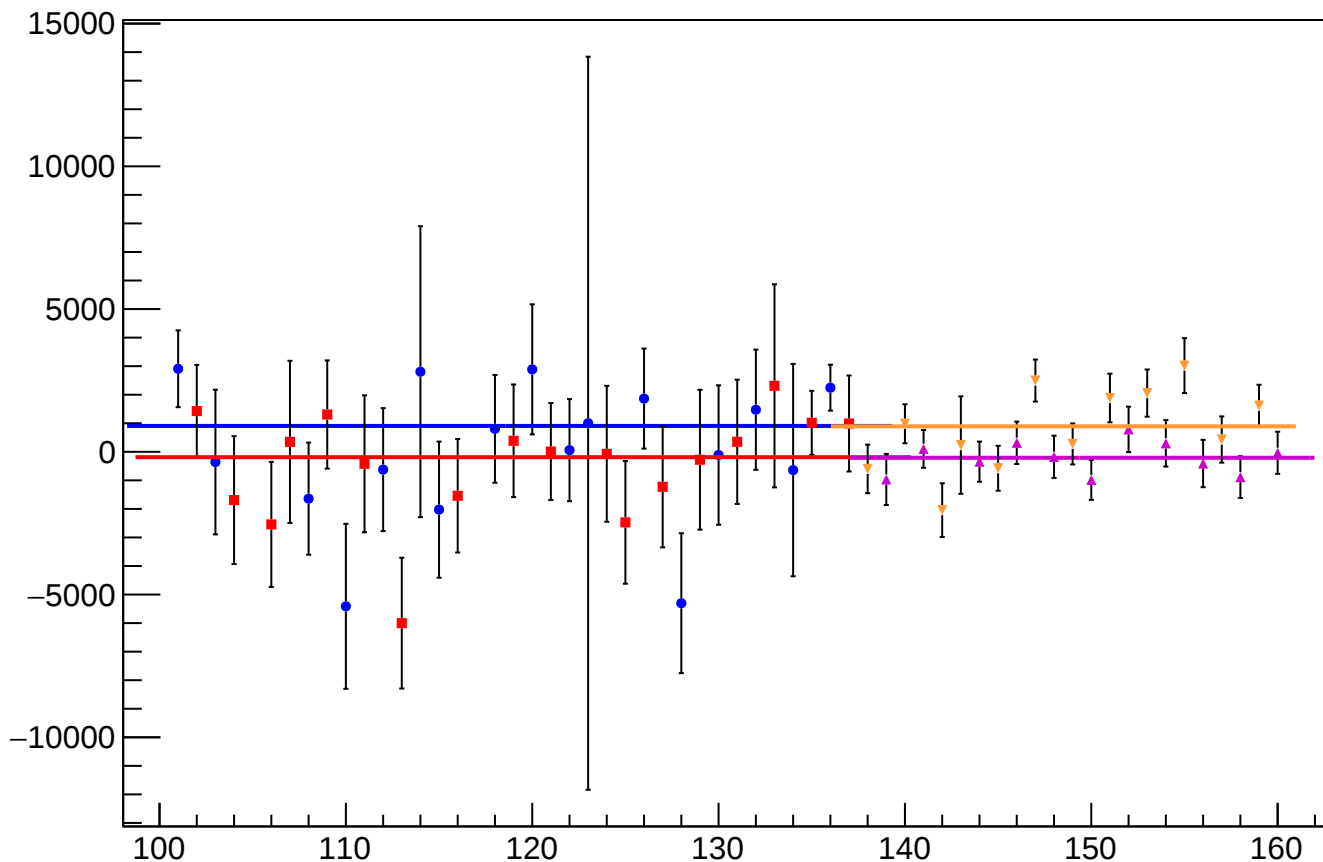
Right: 1304.740+/-0.255  $\chi^2/\text{NDF}$ : 843154.3/34

In: 1304.215+/-0.235  $\chi^2/\text{NDF}$ : 535691.2/27

Out: 1329.935+/-0.238  $\chi^2/\text{NDF}$ : 611881.1/29

All: 1316.908+/-0.167  $\chi^2/\text{NDF}$ : 1153474.0/57

asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 906.688+/-455.840  $\chi^2/\text{NDF}$ : 22.0/16

Left Out: 893.298+/-237.475  $\chi^2/\text{NDF}$ :31.5/11

Right Out: -188.170+/-464.537  $\chi^2/\text{NDF}$ : 13.8/17

Left In: -208.138+/-226.605  $\chi^2/\text{NDF}$ :5.6/10

Left: 316.796+/-163.942  $\chi^2/\text{NDF}$ : 48.4/22

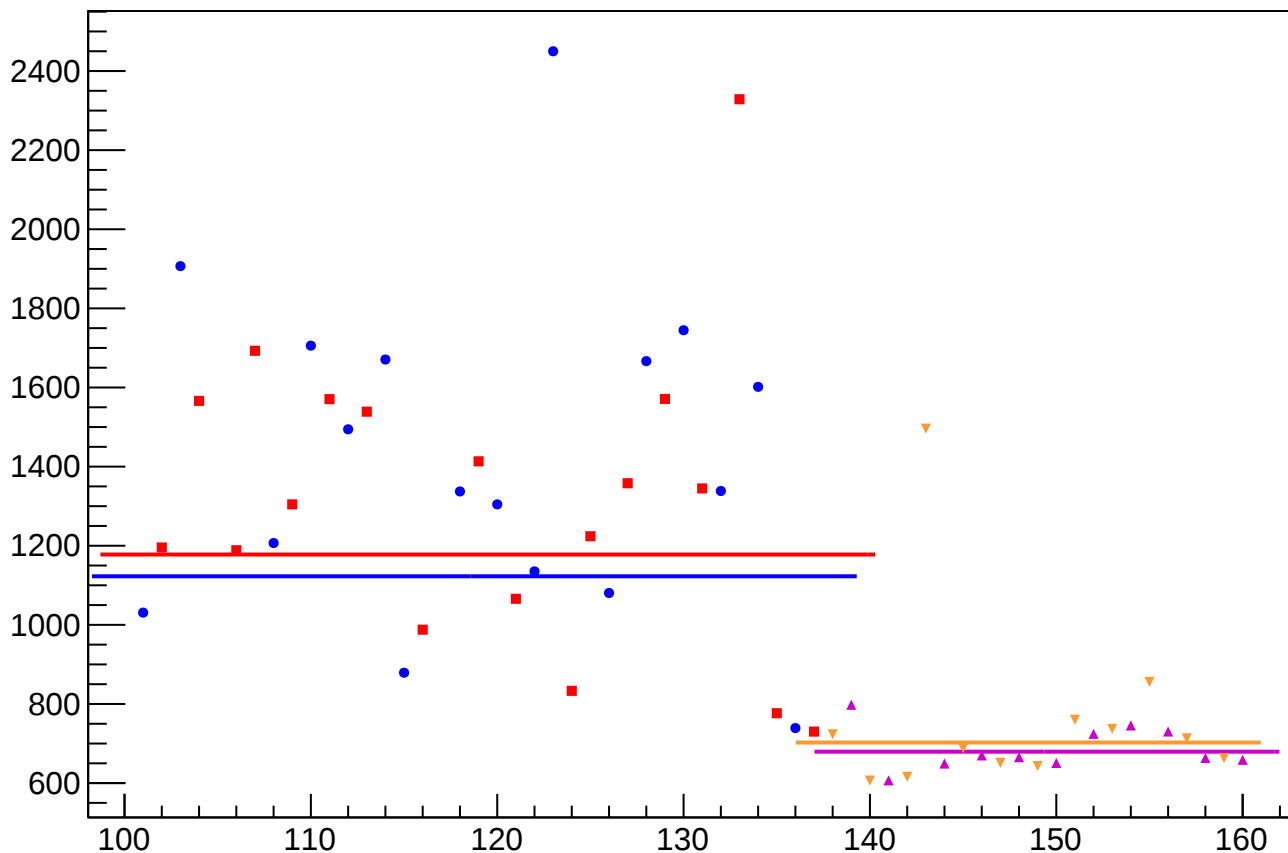
Right: 369.604+/-325.359  $\chi^2/\text{NDF}$ : 38.7/34

In: 12.771+/-202.916  $\chi^2/\text{NDF}$ :32.4/27

Out: 669.230+/-211.448  $\chi^2/\text{NDF}$ :49.6/29

All: 327.489+/-146.406  $\chi^2/\text{NDF}$ : 87.1/57

asym\_atl\_dd\_atr\_dd\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1122.773+/-0.322  $\chi^2/\text{NDF}$ : 1187996.4/16

Left Out: 702.629+/-0.168  $\chi^2/\text{NDF}$ : 583709.9/11

Right Out: 1177.797+/-0.328  $\chi^2/\text{NDF}$ : 1021710.1/17

Left In: 679.403+/-0.160  $\chi^2/\text{NDF}$ : 96765.5/10

Left: 690.472+/-0.116  $\chi^2/\text{NDF}$ : 690489.6/22

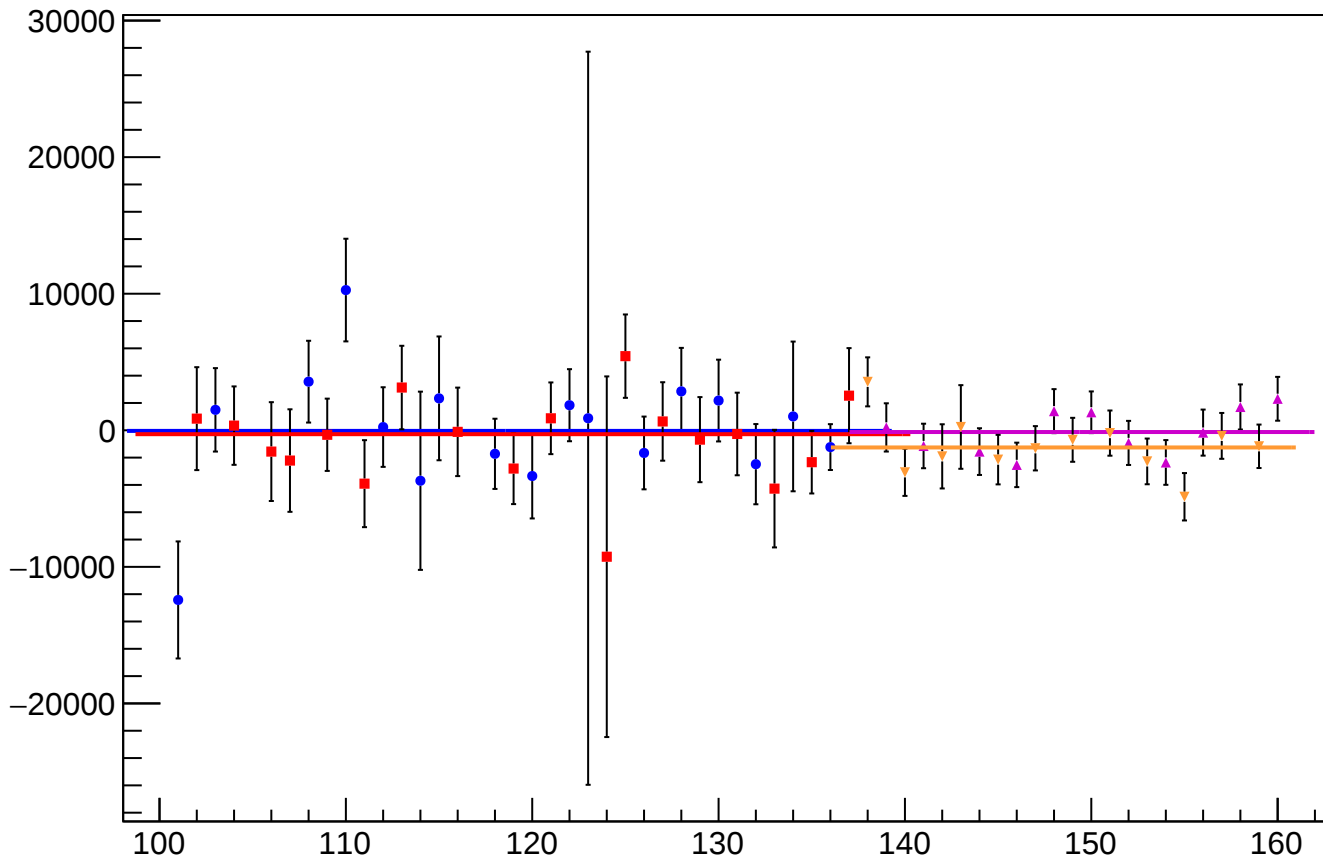
Right: 1149.765+/-0.230  $\chi^2/\text{NDF}$ : 2224002.1/34

In: 767.259+/-0.143  $\chi^2/\text{NDF}$ : 2801913.6/27

Out: 801.079+/-0.150  $\chi^2/\text{NDF}$ : 3264448.1/29

All: 783.473+/-0.104  $\chi^2/\text{NDF}$ : 6092997.2/57

asym\_atl\_dd\_atr\_dd\_dd\_mean vs Slug, Sign Corrected



Right In:  $-44.367 \pm 747.588$   $\chi^2/\text{NDF}: 23.2/16$

Left Out:  $-1257.113 \pm 512.442$   $\chi^2/\text{NDF}: 14.3/11$

Right Out:  $-285.373 \pm 735.391$   $\chi^2/\text{NDF}: 10.6/17$

Left In:  $-126.960 \pm 494.246$   $\chi^2/\text{NDF}: 10.7/10$

Left:  $-671.616 \pm 355.744$   $\chi^2/\text{NDF}: 27.6/22$

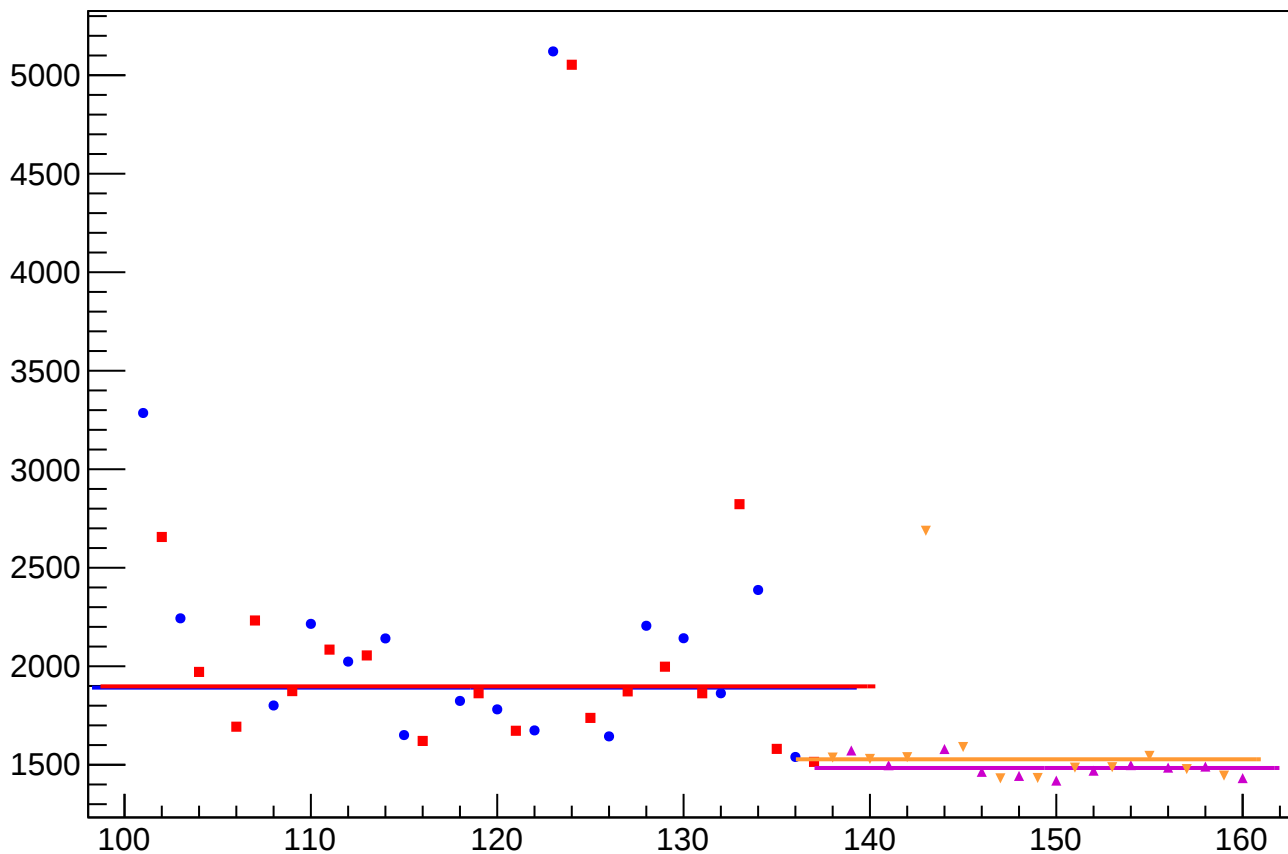
Right:  $-166.852 \pm 524.259$   $\chi^2/\text{NDF}: 33.9/34$

In:  $-101.840 \pm 412.290$   $\chi^2/\text{NDF}: 34.0/27$

Out:  $-939.492 \pm 420.434$   $\chi^2/\text{NDF}: 26.1/29$

All:  $-512.474 \pm 294.370$   $\chi^2/\text{NDF}: 62.1/57$

asym\_atl\_dd\_atr\_dd\_dd\_rms vs Slug, Sign Corrected



Right In: 1891.668+/-0.529  $\chi^2/\text{NDF}$ : 469088.3/16

Left Out: 1527.877+/-0.362  $\chi^2/\text{NDF}$ : 313263.5/11

Right Out: 1898.010+/-0.520  $\chi^2/\text{NDF}$ : 423694.9/17

Left In: 1483.753+/-0.349  $\chi^2/\text{NDF}$ : 18982.1/10

Left: 1505.018+/-0.252  $\chi^2/\text{NDF}$ : 339927.6/22

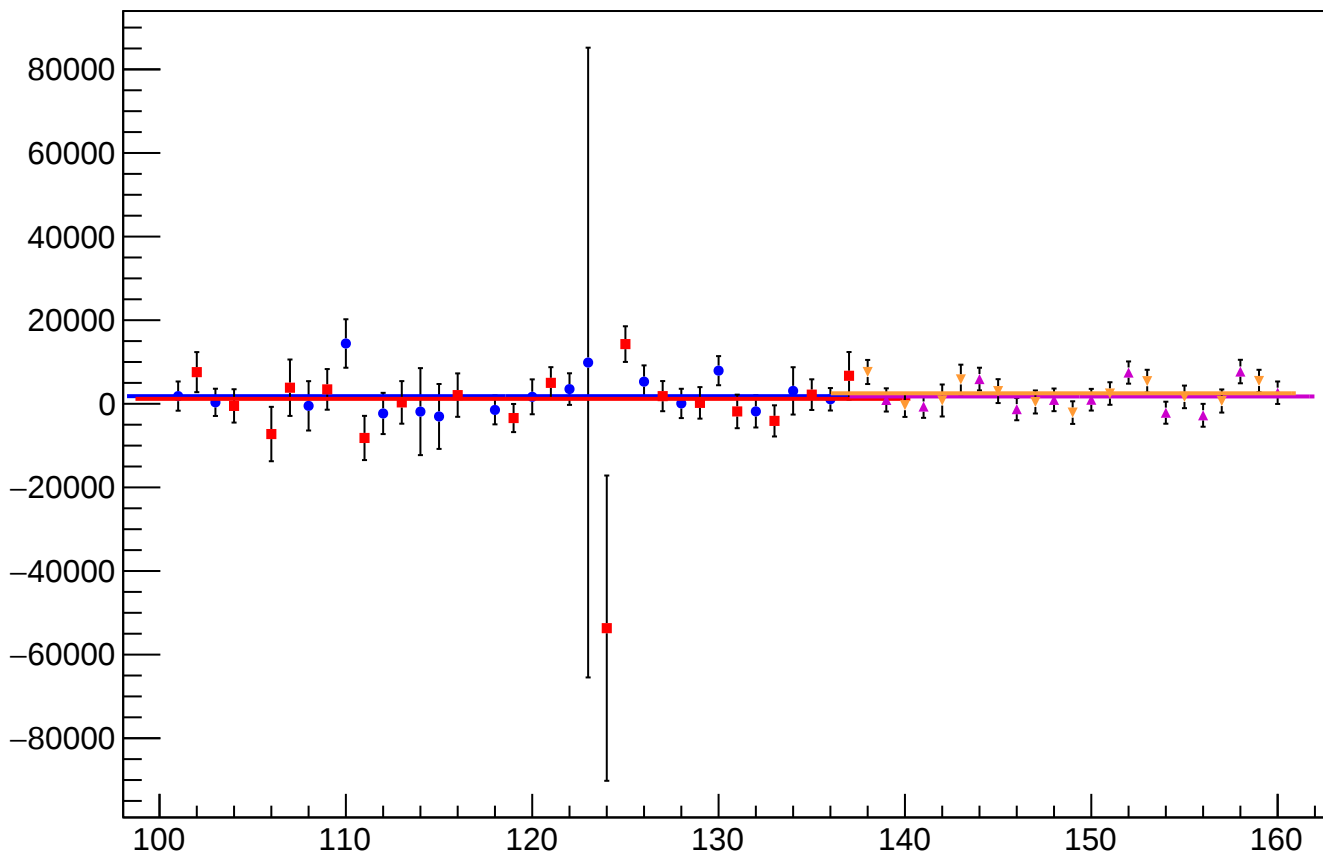
Right: 1894.891+/-0.371  $\chi^2/\text{NDF}$ : 892856.4/34

In: 1607.819+/-0.292  $\chi^2/\text{NDF}$ : 902419.8/27

Out: 1648.860+/-0.297  $\chi^2/\text{NDF}$ : 1078013.4/29

All: 1627.939+/-0.208  $\chi^2/\text{NDF}$ : 1990148.3/57

# dit\_asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1825.042+/-1010.167  $\chi^2$ /NDF: 12.6/16

Left Out: 2512.300+/-826.100  $\chi^2$ /NDF:11.6/11

Right Out: 1182.804+/-1049.924  $\chi^2$ /NDF: 25.5/17

Left In: 1753.172+/-813.075  $\chi^2$ /NDF:18.8/10

Left: 2126.704+/-579.481  $\chi^2$ /NDF: 30.9/22

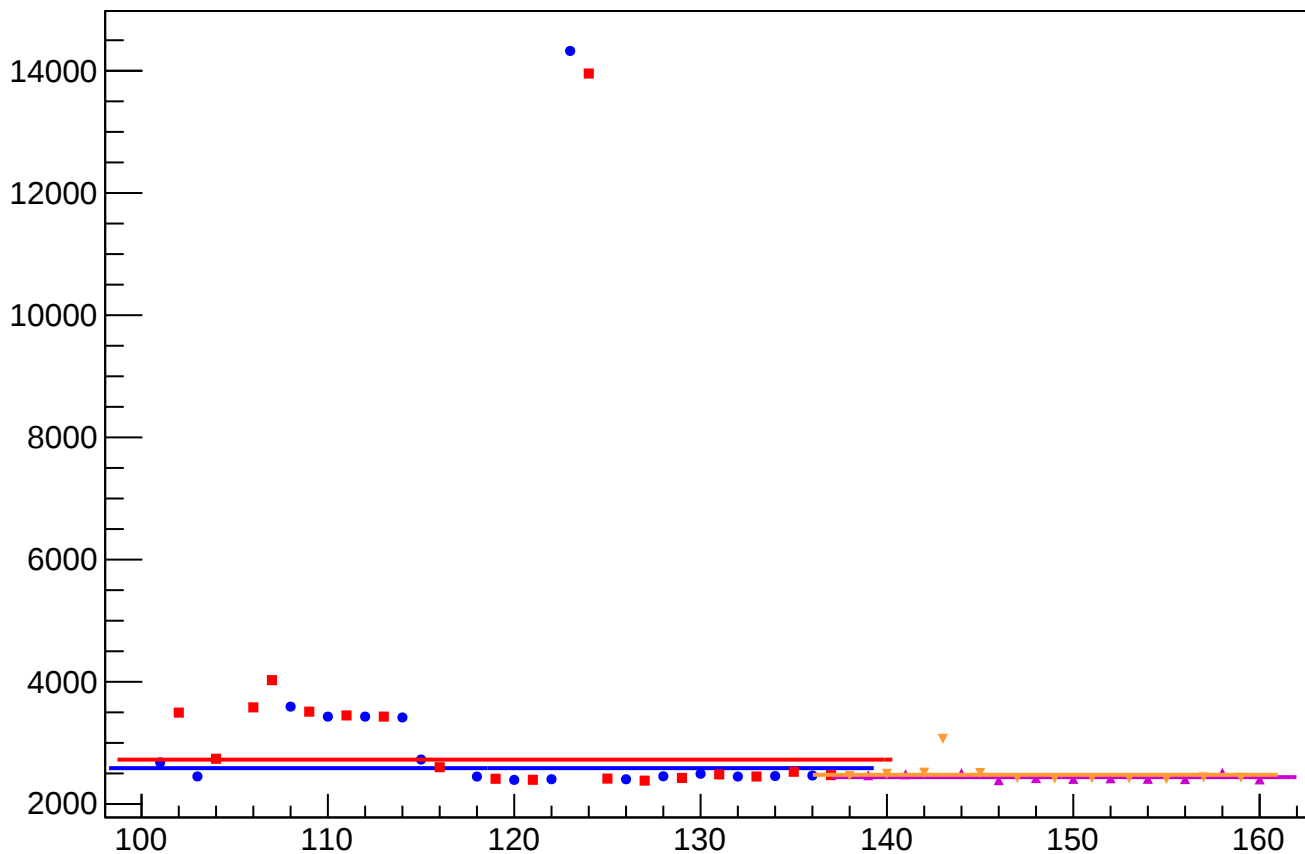
Right: 1516.312+/-727.946  $\chi^2$ /NDF: 38.2/34

In: 1781.428+/-633.391  $\chi^2$ /NDF:31.4/27

Out: 2003.945+/-649.229  $\chi^2$ /NDF:38.1/29

All: 1889.939+/-453.371  $\chi^2$ /NDF: 69.5/57

# dit\_asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2586.978+/-0.714  $\chi^2/\text{NDF}$ : 254112.7/16

Left Out: 2478.065+/-0.584  $\chi^2/\text{NDF}$ : 62281.6/11

Right Out: 2726.457+/-0.742  $\chi^2/\text{NDF}$ : 580850.1/17

Left In: 2439.818+/-0.575  $\chi^2/\text{NDF}$ : 5421.1/10

Left: 2458.637+/-0.410  $\chi^2/\text{NDF}$ : 69880.3/22

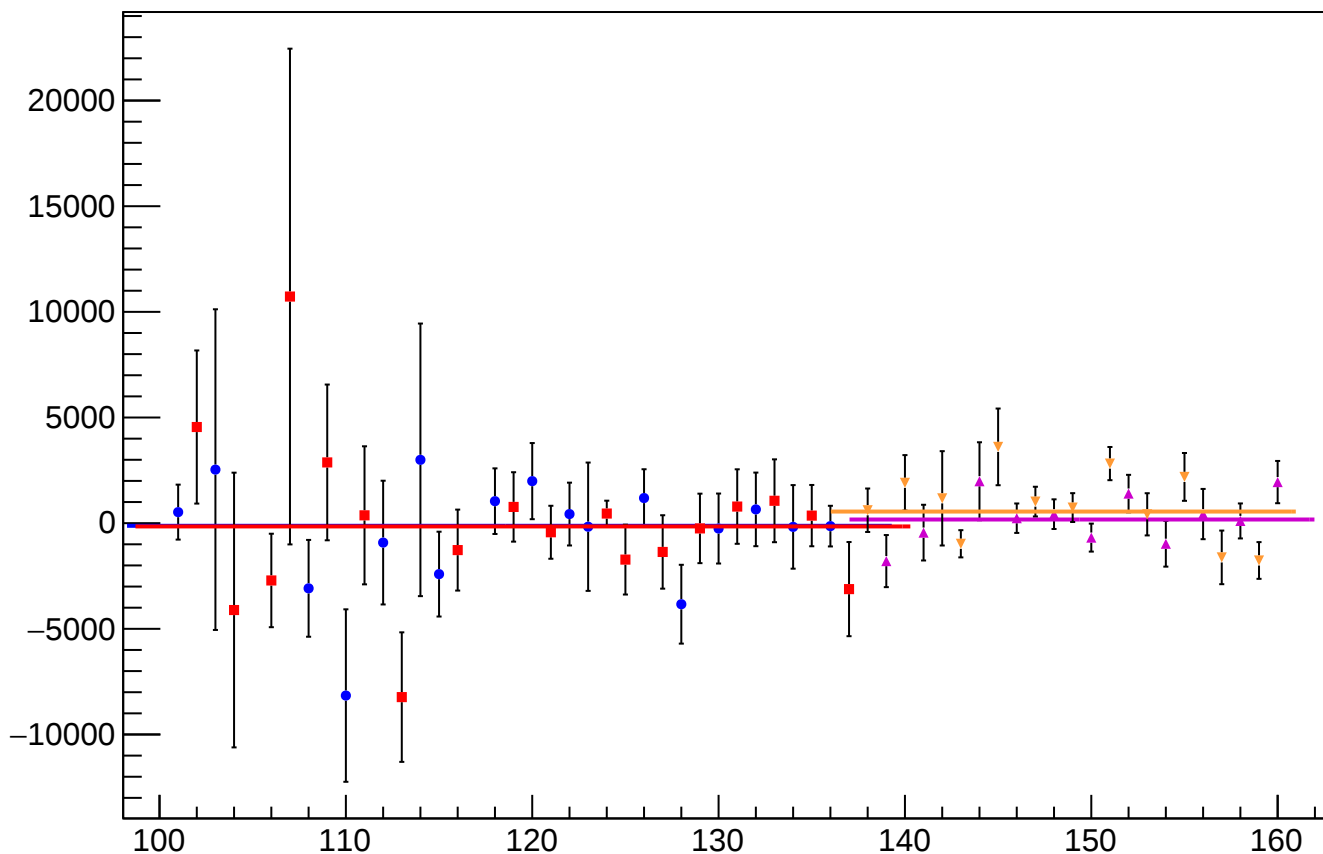
Right: 2654.027+/-0.515  $\chi^2/\text{NDF}$ : 853292.0/34

In: 2497.674+/-0.448  $\chi^2/\text{NDF}$ : 285291.6/27

Out: 2573.042+/-0.459  $\chi^2/\text{NDF}$ : 712270.2/29

All: 2534.427+/-0.321  $\chi^2/\text{NDF}$ : 1011371.1/57

asym\_atl1\_correction\_mean vs Slug, Sign Corrected



Right In: -124.472+/-430.760  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: 549.927+/-267.605  $\chi^2/\text{NDF}$ :30.6/11

Right Out: -154.579+/-380.922  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 173.278+/-275.344  $\chi^2/\text{NDF}$ :11.8/10

Left: 366.970+/-191.903  $\chi^2/\text{NDF}$ : 43.4/22

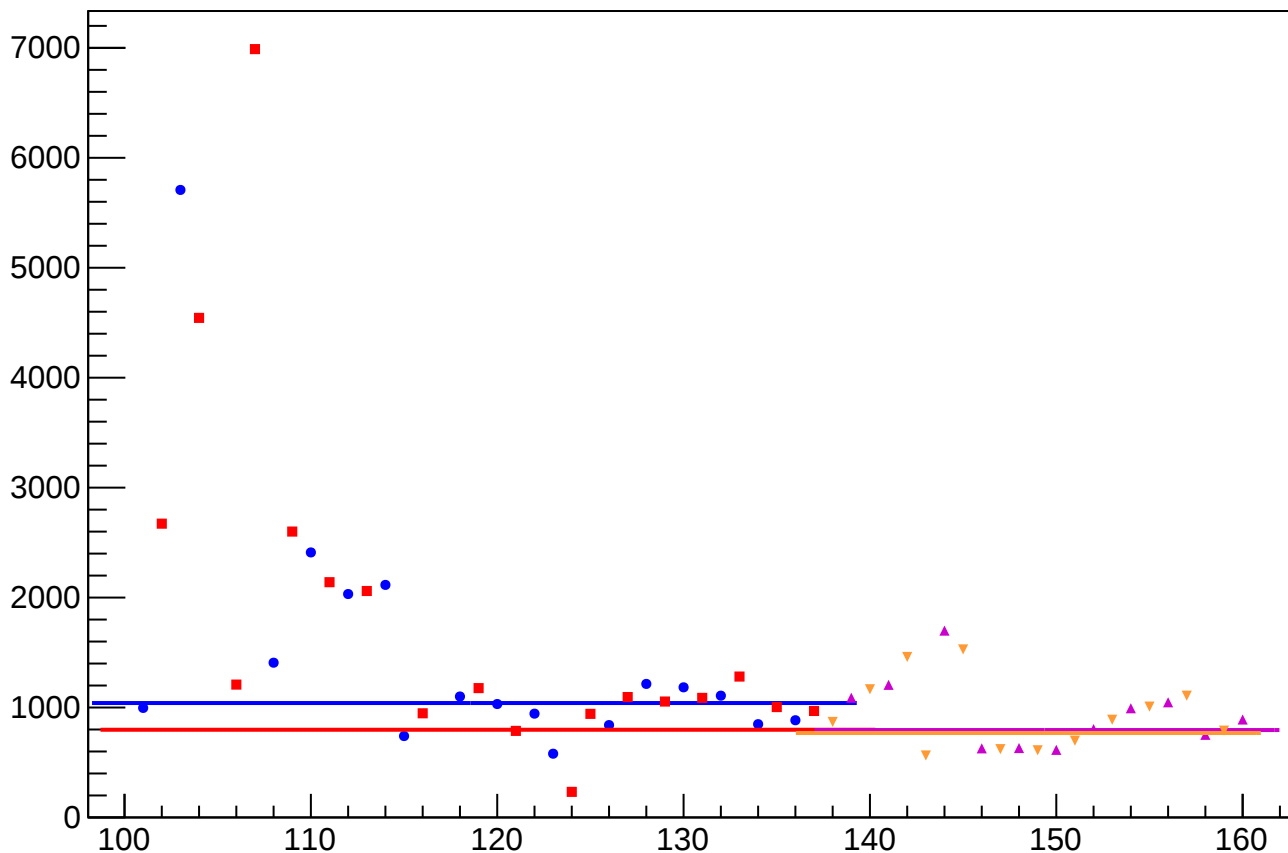
Right: -141.367+/-285.354  $\chi^2/\text{NDF}$ : 32.3/34

In: 86.911+/-231.998  $\chi^2/\text{NDF}$ :26.8/27

Out: 317.125+/-218.971  $\chi^2/\text{NDF}$ :50.5/29

All: 208.663+/-159.242  $\chi^2/\text{NDF}$ : 77.8/57

# asym\_atl1\_correction\_rms vs Slug, Sign Corrected



Right In: 1040.760+/-0.305     $\chi^2/\text{NDF}$ : 1573034.8/16

Left Out: 768.391+/-0.189     $\chi^2/\text{NDF}$ : 1420656.7/11

Right Out: 797.732+/-0.269     $\chi^2/\text{NDF}$ : 5174332.0/17

Left In: 795.146+/-0.195     $\chi^2/\text{NDF}$ : 1341835.2/10

Left: 781.388+/-0.136     $\chi^2/\text{NDF}$ : 2772202.8/22

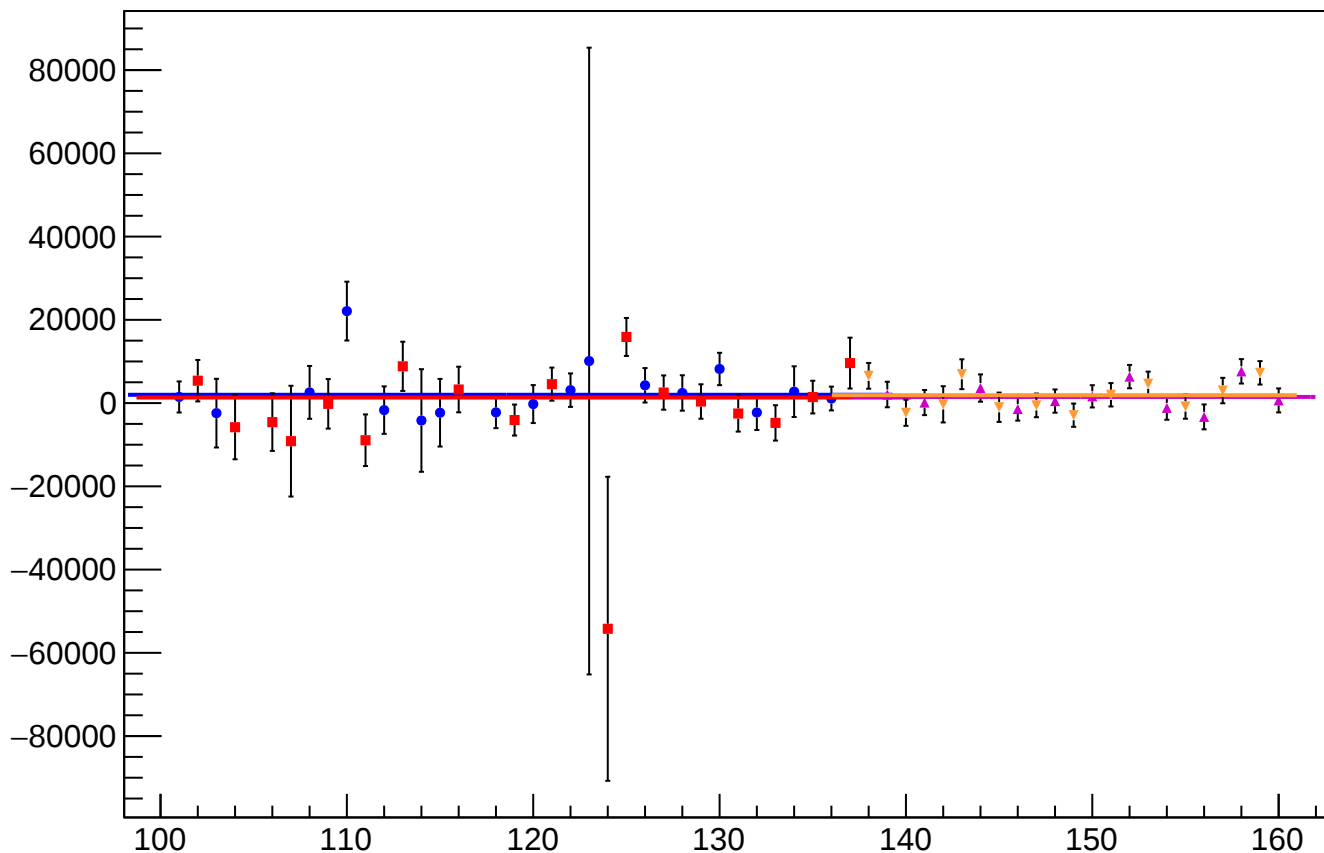
Right: 904.380+/-0.202     $\chi^2/\text{NDF}$ : 7104613.1/34

In: 866.391+/-0.164     $\chi^2/\text{NDF}$ : 3376487.0/27

Out: 778.087+/-0.155     $\chi^2/\text{NDF}$ : 6602933.2/29

All: 819.690+/-0.113     $\chi^2/\text{NDF}$ : 10132657.0/57

# asym\_atl1\_mean vs Slug, Sign Corrected



Right In: 1996.263+/-1155.054  $\chi^2/\text{NDF}$ : 14.9/16

Left Out: 1899.149+/-889.548  $\chi^2/\text{NDF}$ :16.2/11

Right Out: 1336.627+/-1193.730  $\chi^2/\text{NDF}$ : 27.5/17

Left In: 1481.629+/-875.626  $\chi^2/\text{NDF}$ :12.8/10

Left: 1687.096+/-624.025  $\chi^2/\text{NDF}$ : 29.1/22

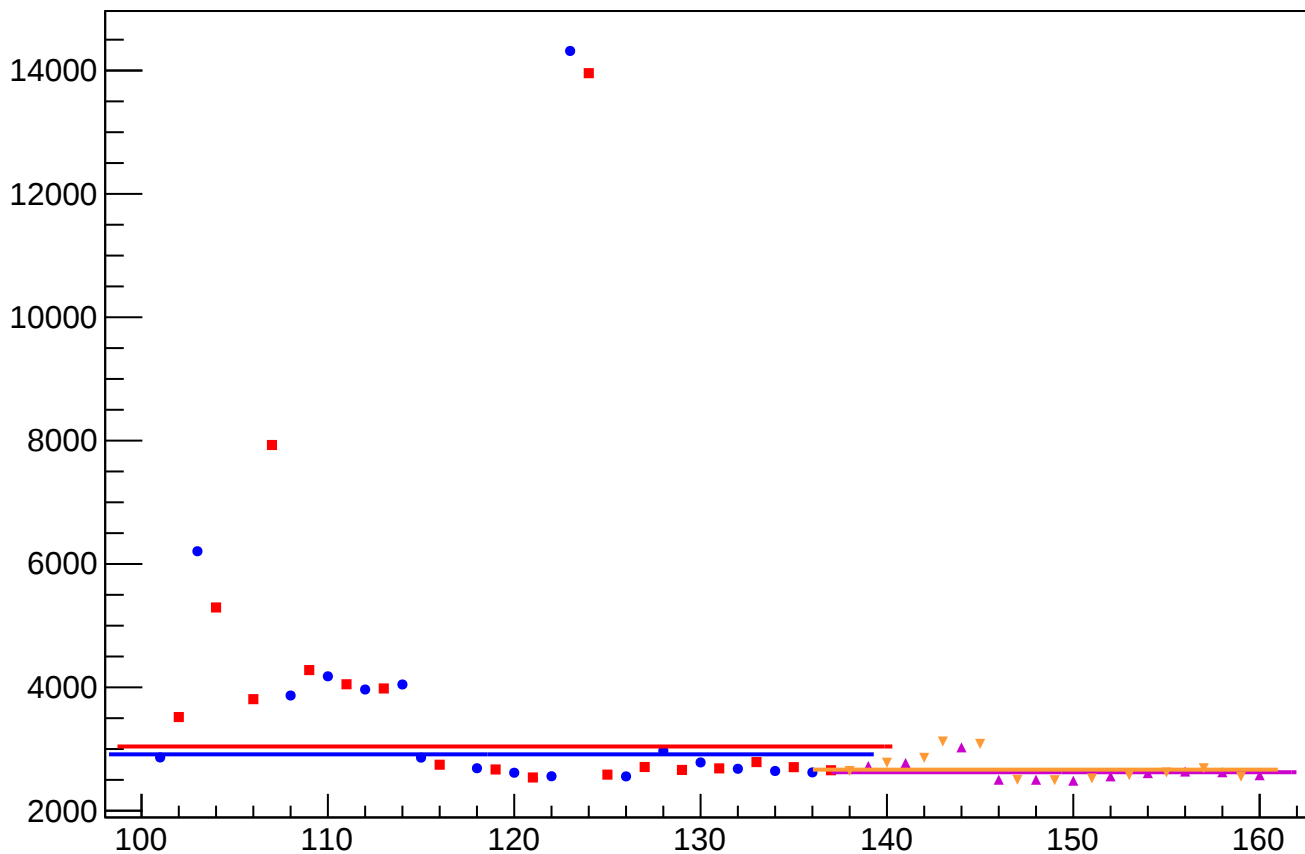
Right: 1677.304+/-830.083  $\chi^2/\text{NDF}$ : 42.6/34

In: 1669.447+/-697.785  $\chi^2/\text{NDF}$ :27.9/27

Out: 1698.308+/-713.284  $\chi^2/\text{NDF}$ :43.8/29

All: 1683.560+/-498.798  $\chi^2/\text{NDF}$ : 71.7/57

# asym\_atl1\_rms vs Slug, Sign Corrected



Right In: 2913.875+/-0.817  $\chi^2/\text{NDF}$ : 638984.6/16

Left Out: 2665.690+/-0.629  $\chi^2/\text{NDF}$ : 92107.2/11

Right Out: 3041.227+/-0.844  $\chi^2/\text{NDF}$ : 1003583.4/17

Left In: 2623.786+/-0.619  $\chi^2/\text{NDF}$ : 51996.1/10

Left: 2644.407+/-0.441  $\chi^2/\text{NDF}$ : 146357.3/22

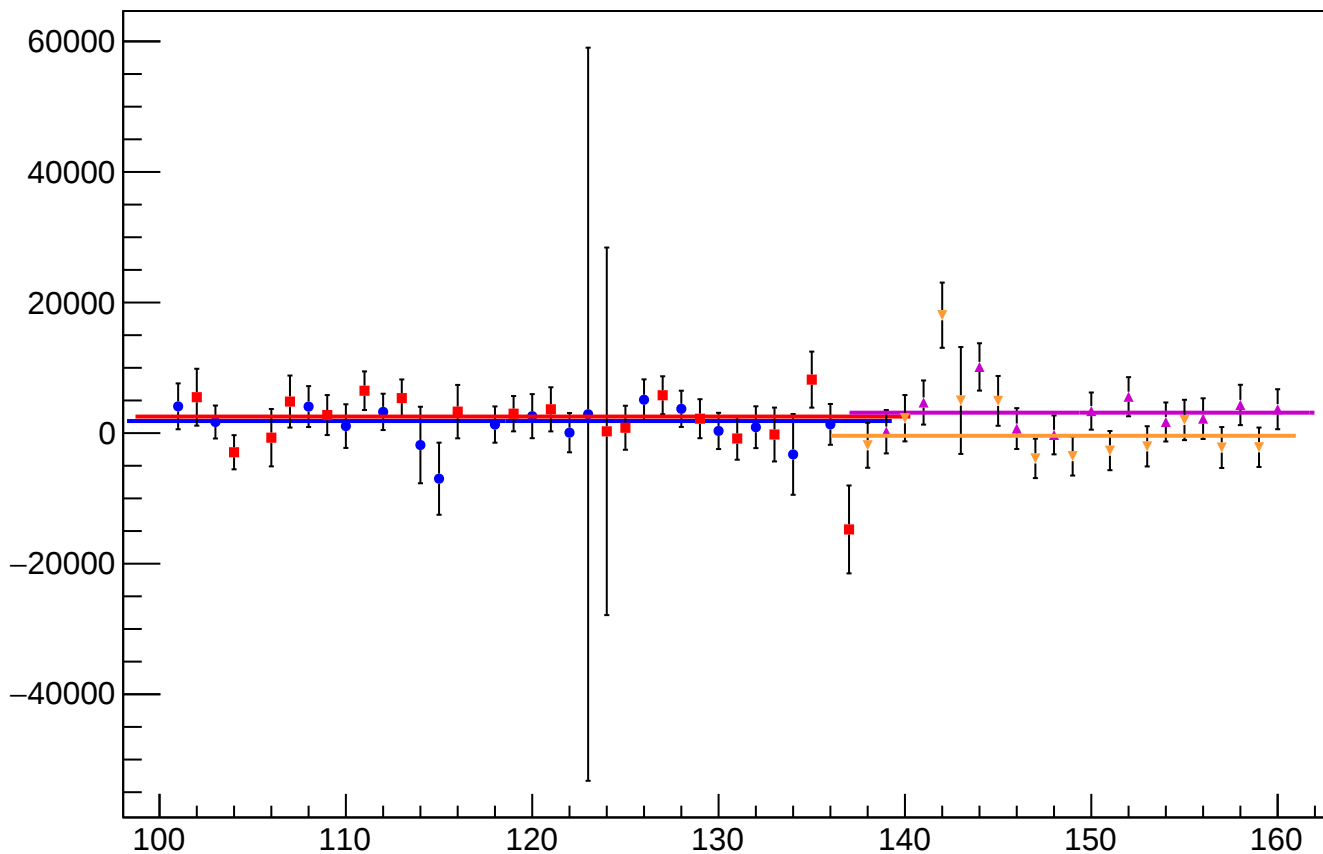
Right: 2975.455+/-0.587  $\chi^2/\text{NDF}$ : 1654324.2/34

In: 2729.655+/-0.493  $\chi^2/\text{NDF}$ : 771092.0/27

Out: 2799.770+/-0.504  $\chi^2/\text{NDF}$ : 1222956.3/29

All: 2763.943+/-0.353  $\chi^2/\text{NDF}$ : 2003923.3/57

# dit\_asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 1850.093+/-806.760  $\chi^2/\text{NDF}$ : 7.3/16

Left Out: -407.093+/-979.022  $\chi^2/\text{NDF}$ :21.4/11

Right Out: 2535.163+/-819.322  $\chi^2/\text{NDF}$ : 20.0/17

Left In: 3131.312+/-940.899  $\chi^2/\text{NDF}$ :7.8/10

Left: 1432.343+/-678.393  $\chi^2/\text{NDF}$ : 36.0/22

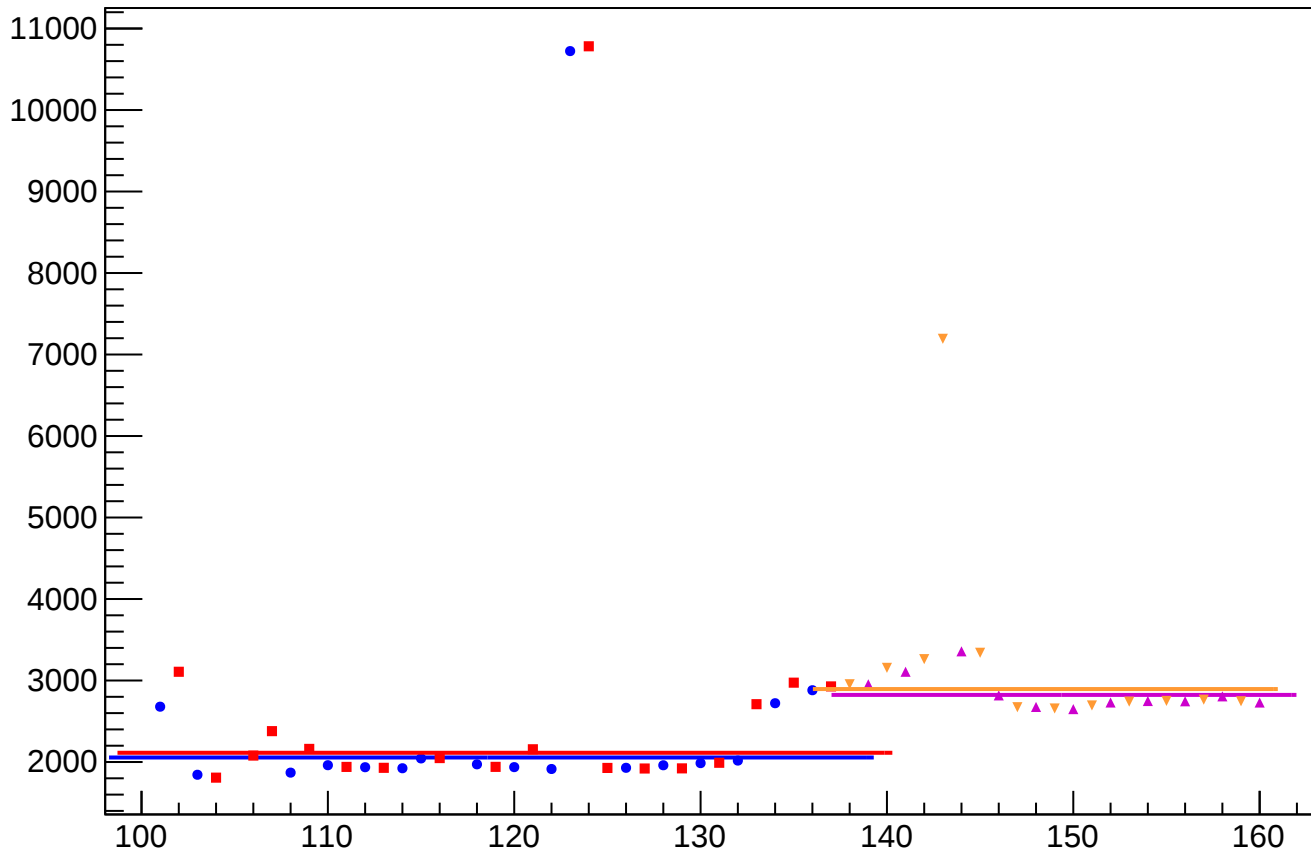
Right: 2187.336+/-574.855  $\chi^2/\text{NDF}$ : 27.6/34

In: 2392.940+/-612.449  $\chi^2/\text{NDF}$ :16.1/27

Out: 1323.275+/-628.324  $\chi^2/\text{NDF}$ :46.7/29

All: 1871.791+/-438.572  $\chi^2/\text{NDF}$ : 64.3/57

# dit\_asym\_atl2\_rms vs Slug, Sign Corrected



Right In:  $2055.447 \pm 0.570$   $\chi^2/\text{NDF}$ : 316383.7/16

Left Out:  $2895.225 \pm 0.692$   $\chi^2/\text{NDF}$ : 651073.2/11

Right Out:  $2113.304 \pm 0.578$   $\chi^2/\text{NDF}$ : 532006.4/17

Left In:  $2823.355 \pm 0.665$   $\chi^2/\text{NDF}$ : 79481.5/10

Left:  $2857.864 \pm 0.480$   $\chi^2/\text{NDF}$ : 736157.7/22

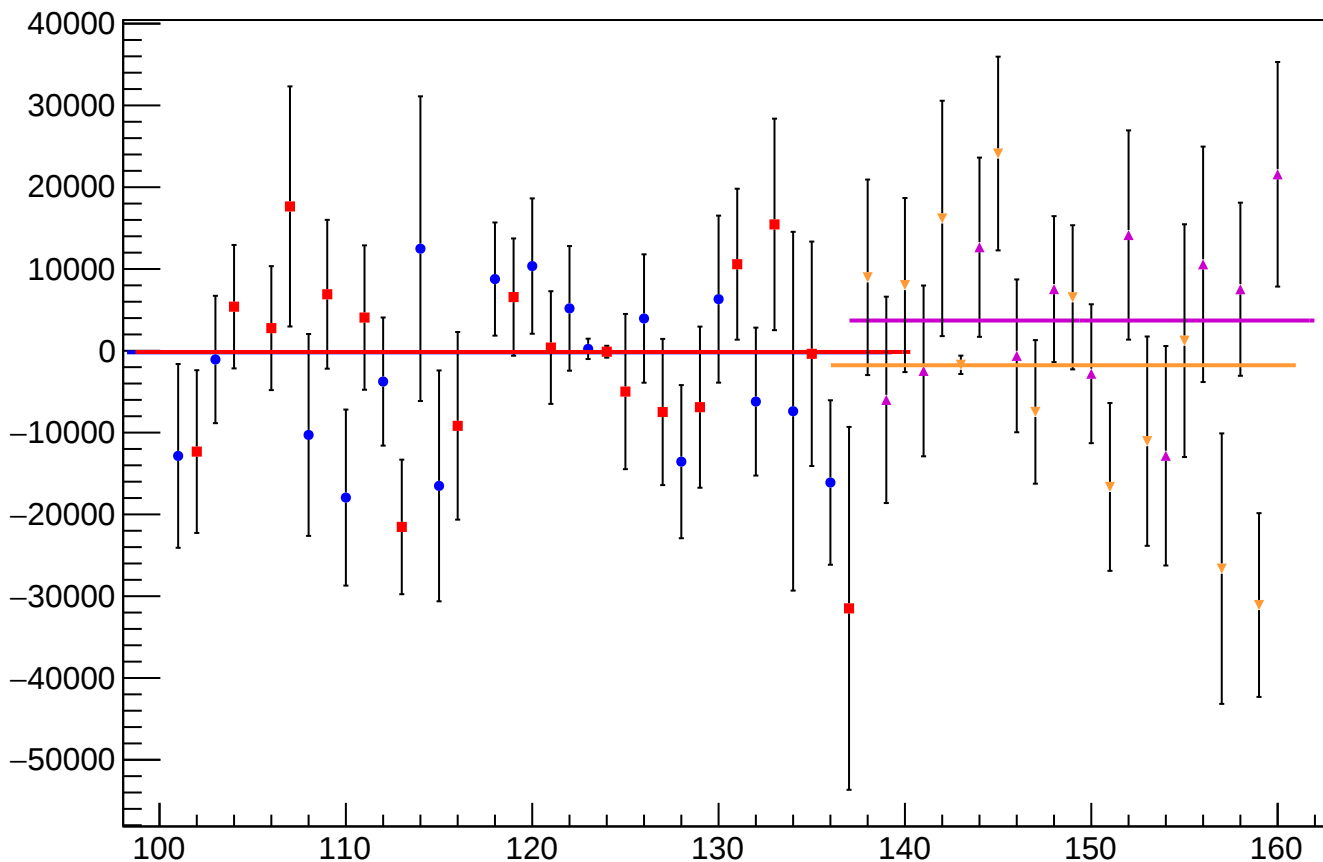
Right:  $2083.972 \pm 0.406$   $\chi^2/\text{NDF}$ : 853461.4/34

In:  $2380.806 \pm 0.433$   $\chi^2/\text{NDF}$ : 1163605.9/27

Out:  $2434.801 \pm 0.444$   $\chi^2/\text{NDF}$ : 1934297.6/29

All:  $2407.137 \pm 0.310$   $\chi^2/\text{NDF}$ : 3105484.2/57

asym\_atl2\_correction\_mean vs Slug, Sign Corrected



Right In: -185.246+/-1100.780  $\chi^2/\text{NDF}$ : 16.4/16

Left Out: -1764.055+/-1066.153  $\chi^2/\text{NDF}$ : 21.0/11

Right Out: -141.935+/-690.979  $\chi^2/\text{NDF}$ : 19.0/17

Left In: 3701.548+/-3289.506  $\chi^2/\text{NDF}$ : 6.8/10

Left: -1244.494+/-1014.214  $\chi^2/\text{NDF}$ : 30.4/22

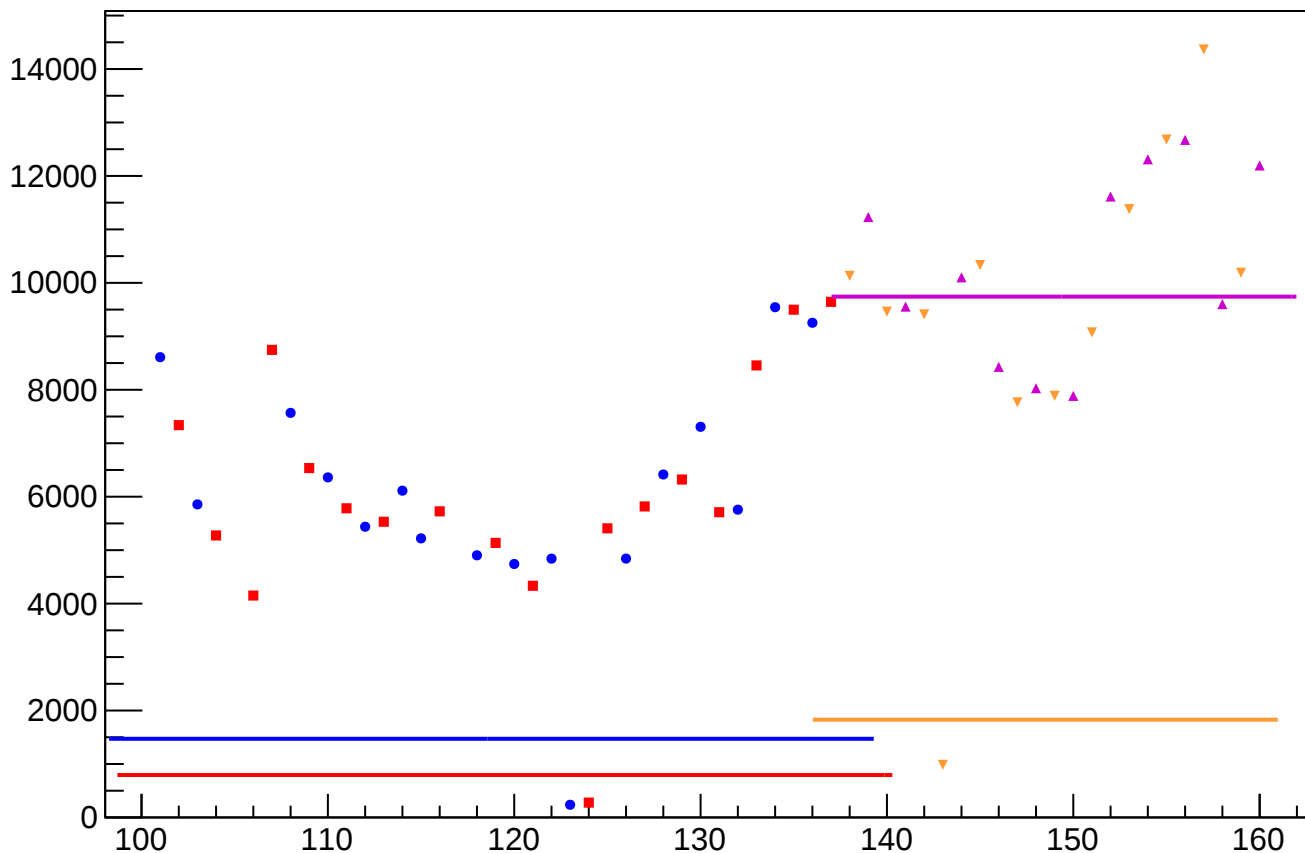
Right: -154.177+/-585.233  $\chi^2/\text{NDF}$ : 35.3/34

In: 206.166+/-1043.883  $\chi^2/\text{NDF}$ : 24.5/27

Out: -621.749+/-579.849  $\chi^2/\text{NDF}$ : 41.6/29

All: -426.530+/-506.897  $\chi^2/\text{NDF}$ : 66.6/57

# asym\_atl2\_correction\_rms vs Slug, Sign Corrected



Right In: 1471.609+/-0.778

$\chi^2/\text{NDF}$ : 9788255.4/16

Left: 2581.060+/-0.717

$\chi^2/\text{NDF}$ : 23084327.9/22

Left Out: 1828.823+/-0.754

$\chi^2/\text{NDF}$ : 12107545.9/11

Right: 985.285+/-0.414

$\chi^2/\text{NDF}$ : 21755031.4/34

Right Out: 793.659+/-0.489

$\chi^2/\text{NDF}$ : 11422584.5/17

In: 2304.473+/-0.738

$\chi^2/\text{NDF}$ : 21660630.2/27

Out: 1099.855+/-0.410

$\chi^2/\text{NDF}$ : 24857854.2/29

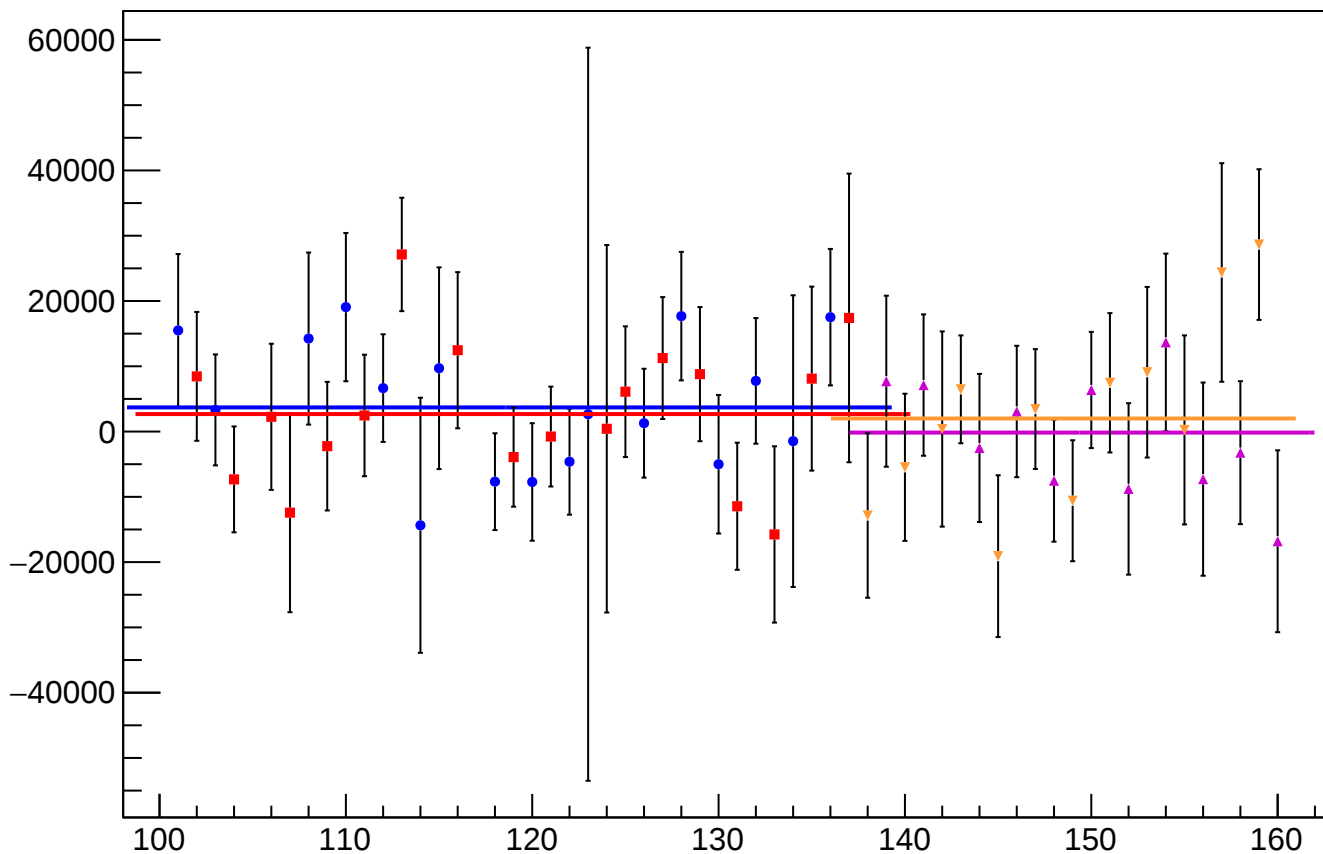
Left In: 9742.111+/-2.326

$\chi^2/\text{NDF}$ : 503026.8/10

All: 1383.898+/-0.358

$\chi^2/\text{NDF}$ : 48553814.3/5

# asym\_atl2\_mean vs Slug, Sign Corrected



Right In: 3698.440+/-2517.949  $\chi^2/\text{NDF}$ : 14.4/16

Left Out: 2001.686+/-3265.229  $\chi^2/\text{NDF}$ : 14.6/11

Right Out: 2679.483+/-2428.648  $\chi^2/\text{NDF}$ : 18.5/17

Left In: -155.830+/-3422.850  $\chi^2/\text{NDF}$ : 5.3/10

Left: 973.747+/-2362.623  $\chi^2/\text{NDF}$ : 20.1/22

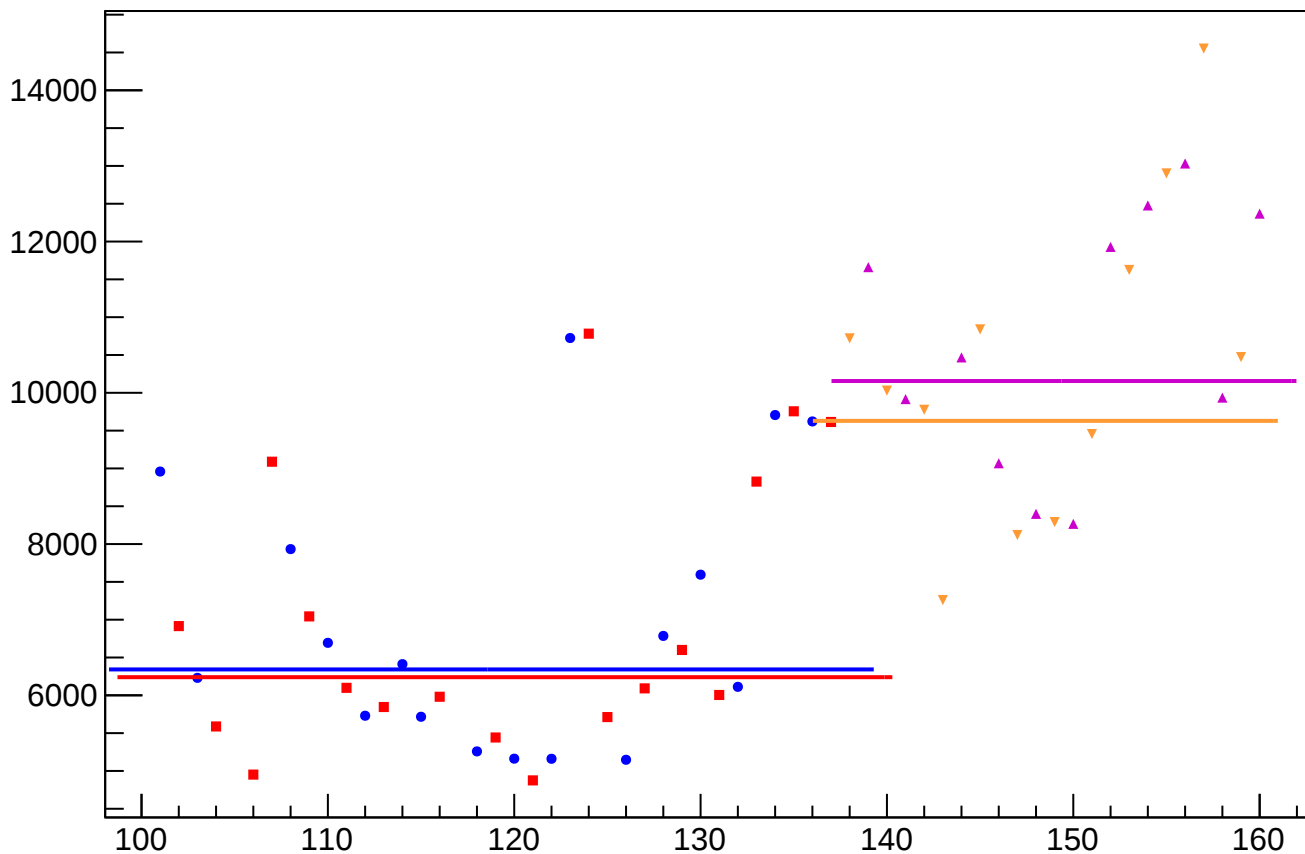
Right: 3170.572+/-1748.031  $\chi^2/\text{NDF}$ : 33.0/34

In: 2345.074+/-2028.264  $\chi^2/\text{NDF}$ : 20.5/27

Out: 2438.066+/-1948.711  $\chi^2/\text{NDF}$ : 33.1/29

All: 2393.430+/-1405.229  $\chi^2/\text{NDF}$ : 53.7/57

# asym\_atl2\_rms vs Slug, Sign Corrected



Right In: 6342.327+/-1.780  $\chi^2/\text{NDF}$ : 593668.9/16

Left Out: 9628.836+/-2.309  $\chi^2/\text{NDF}$ : 629988.0/11

Right Out: 6239.726+/-1.717  $\chi^2/\text{NDF}$ : 529243.7/17

Left In: 10155.900+/-2.420  $\chi^2/\text{NDF}$ : 434642.3/10

Left: 9879.953+/-1.671  $\chi^2/\text{NDF}$ : 1089458.4/22

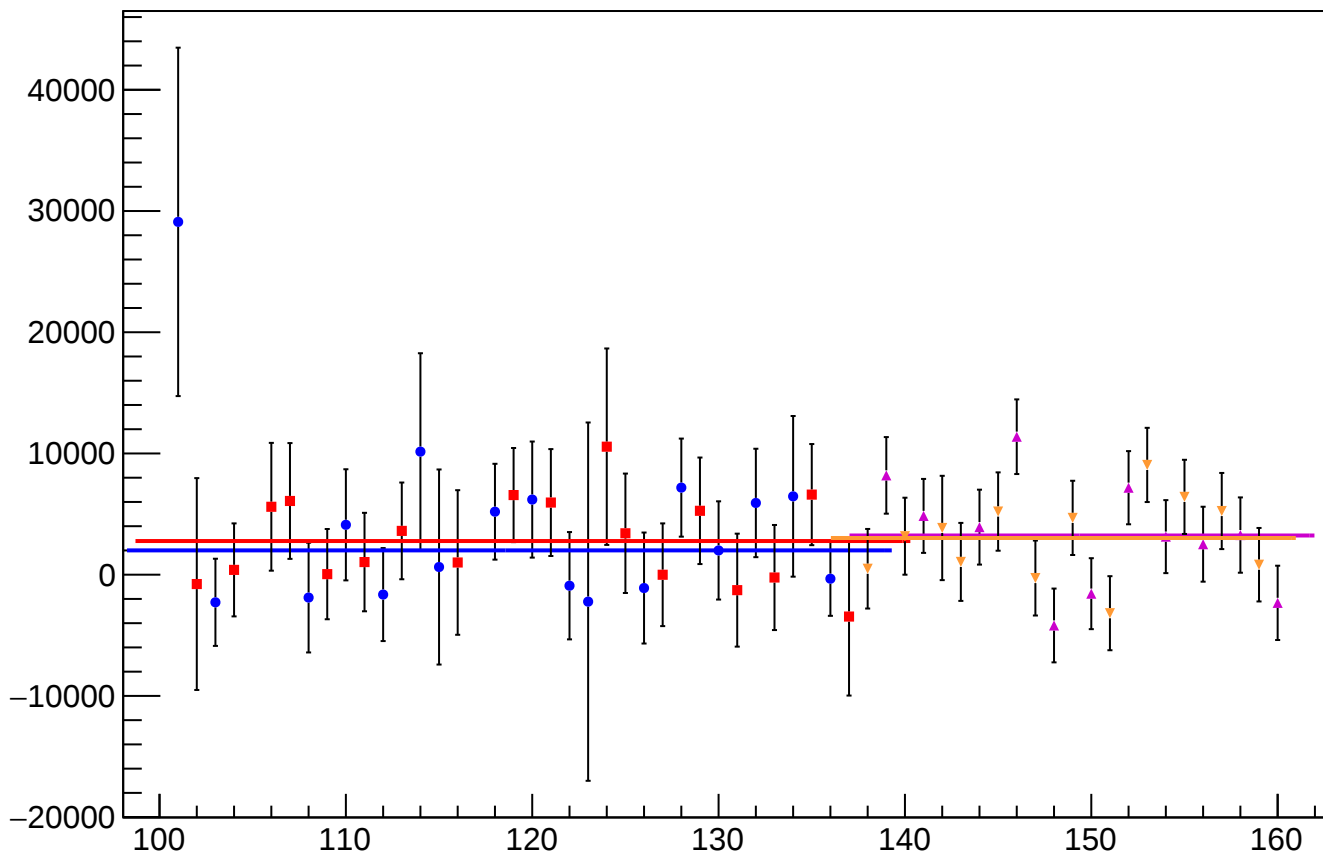
Right: 6289.173+/-1.236  $\chi^2/\text{NDF}$ : 1124633.0/34

In: 7681.394+/-1.434  $\chi^2/\text{NDF}$ : 2639234.5/27

Out: 7446.781+/-1.378  $\chi^2/\text{NDF}$ : 2546479.4/29

All: 7559.394+/-0.994  $\chi^2/\text{NDF}$ : 5199629.5/57

# dit\_asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2004.589 $\pm$ 1125.432  $\chi^2/\text{NDF}$ : 13.7/16

Left Out: 3027.120 $\pm$ 920.344  $\chi^2/\text{NDF}$ : 13.2/11

Right Out: 2776.042 $\pm$ 1086.812  $\chi^2/\text{NDF}$ : 8.3/17

Left In: 3233.028 $\pm$ 921.624  $\chi^2/\text{NDF}$ : 23.5/10

Left: 3129.931 $\pm$ 651.234  $\chi^2/\text{NDF}$ : 36.7/22

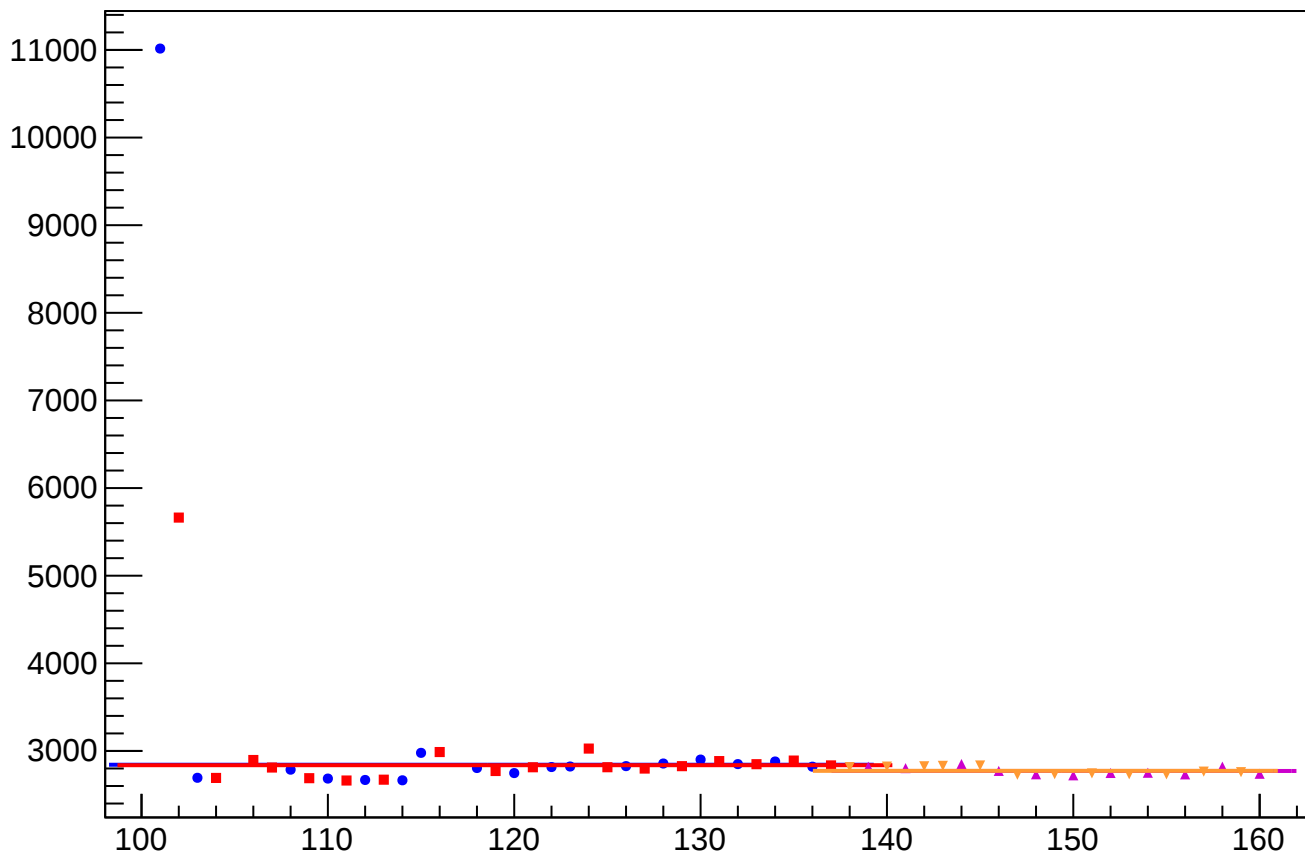
Right: 2403.779 $\pm$ 781.789  $\chi^2/\text{NDF}$ : 22.3/34

In: 2739.913 $\pm$ 713.044  $\chi^2/\text{NDF}$ : 37.9/27

Out: 2922.263 $\pm$ 702.344  $\chi^2/\text{NDF}$ : 21.5/29

All: 2832.466 $\pm$ 500.372  $\chi^2/\text{NDF}$ : 59.4/57

# dit\_asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2842.628+/-0.796  $\chi^2/\text{NDF}$ : 660305.1/16

Left Out: 2772.992+/-0.651  $\chi^2/\text{NDF}$ : 4108.6/11

Right Out: 2837.439+/-0.768  $\chi^2/\text{NDF}$ : 226421.9/17

Left In: 2771.488+/-0.652  $\chi^2/\text{NDF}$ : 4166.0/10

Left: 2772.241+/-0.460  $\chi^2/\text{NDF}$ : 8277.2/22

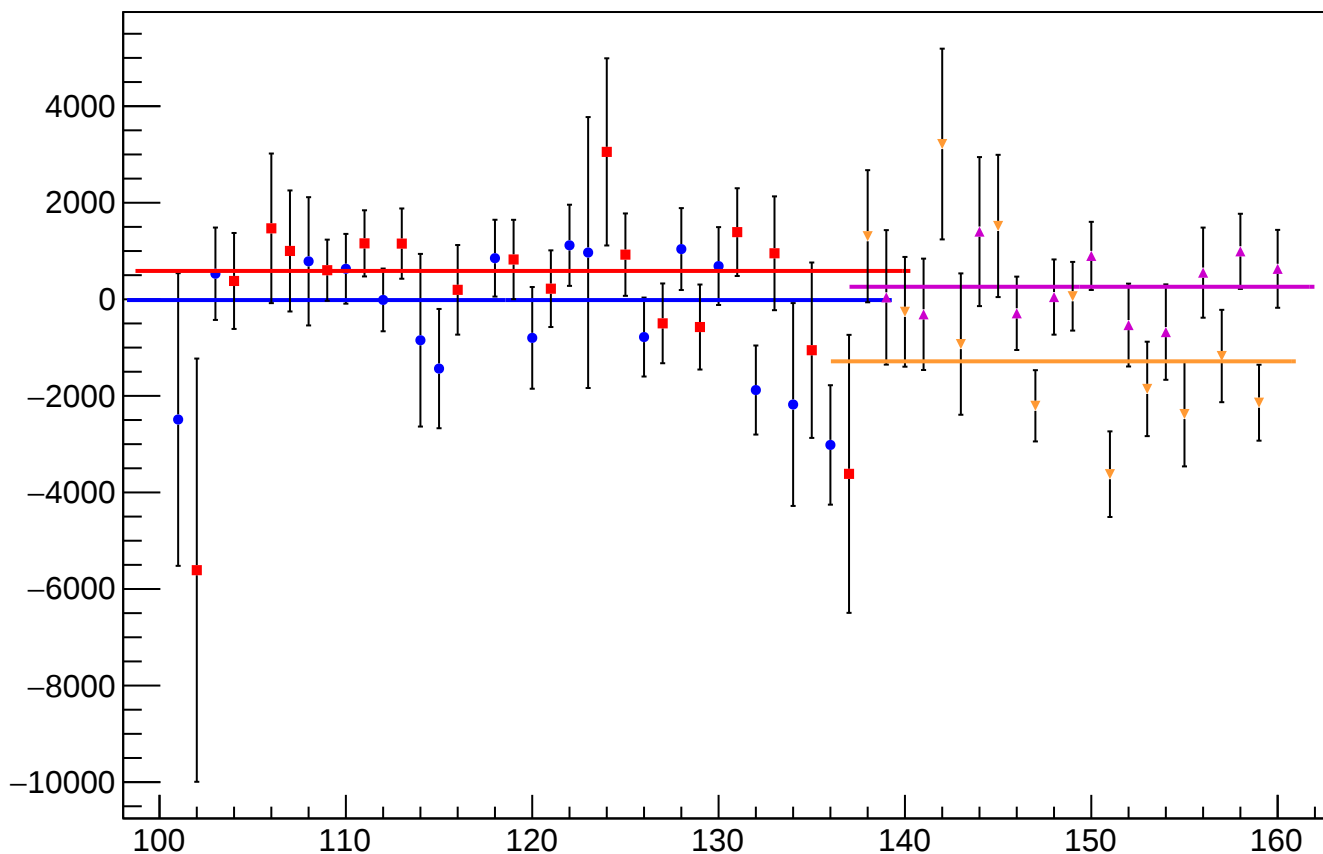
Right: 2839.943+/-0.553  $\chi^2/\text{NDF}$ : 886749.0/34

In: 2800.045+/-0.504  $\chi^2/\text{NDF}$ : 669254.5/27

Out: 2799.907+/-0.497  $\chi^2/\text{NDF}$ : 234626.2/29

All: 2799.975+/-0.354  $\chi^2/\text{NDF}$ : 903880.8/57

# asym\_atr1\_correction\_mean vs Slug, Sign Corrected



Right In: -15.631 $\pm$ 238.862  $\chi^2/\text{NDF}$ : 21.6/16

Left Out: -1284.551 $\pm$ 286.538  $\chi^2/\text{NDF}$ : 27.9/11

Right Out: 587.609 $\pm$ 225.811  $\chi^2/\text{NDF}$ : 13.3/17

Left In: 259.735 $\pm$ 269.236  $\chi^2/\text{NDF}$ : 5.2/10

Left: -464.379 $\pm$ 196.210  $\chi^2/\text{NDF}$ : 48.5/22

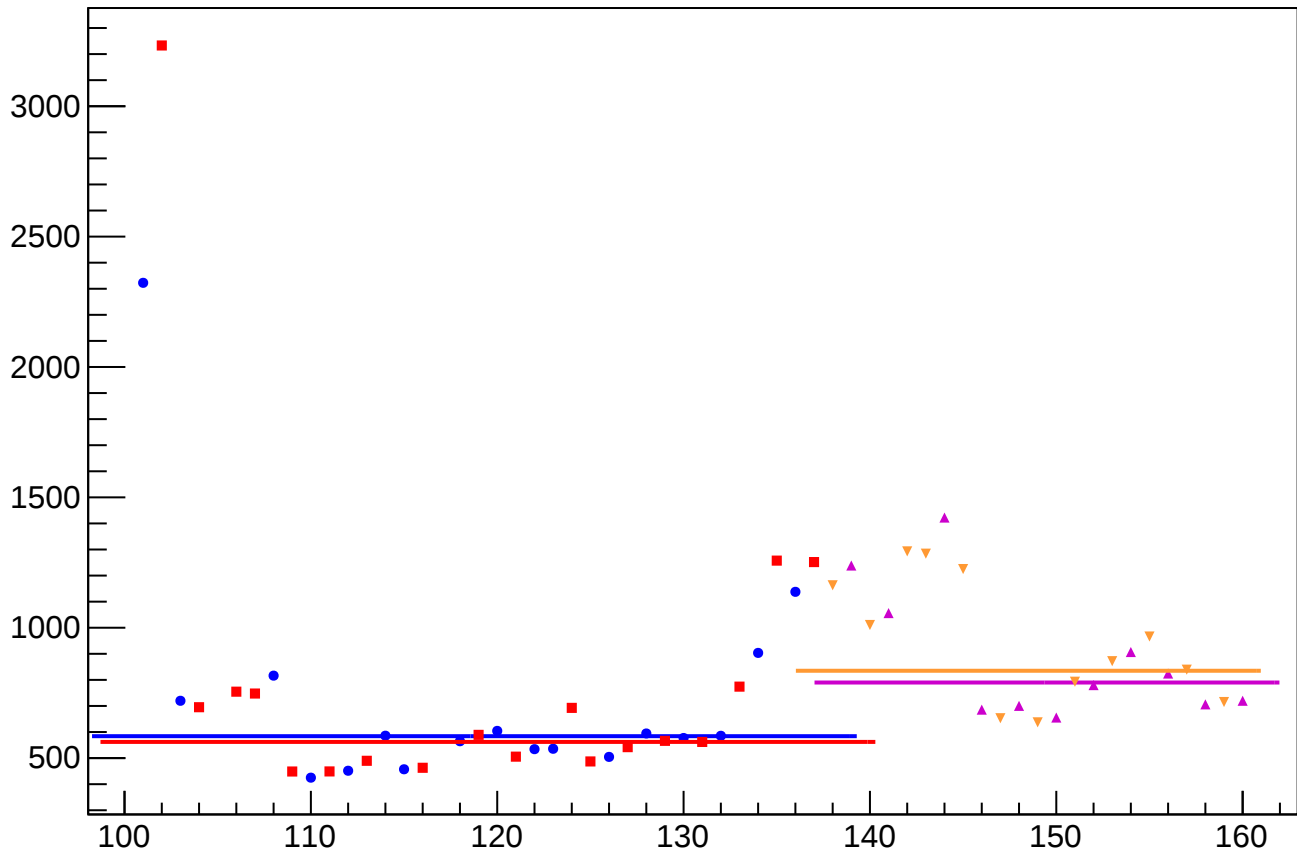
Right: 302.919 $\pm$ 164.093  $\chi^2/\text{NDF}$ : 38.3/34

In: 105.650 $\pm$ 178.679  $\chi^2/\text{NDF}$ : 27.4/27

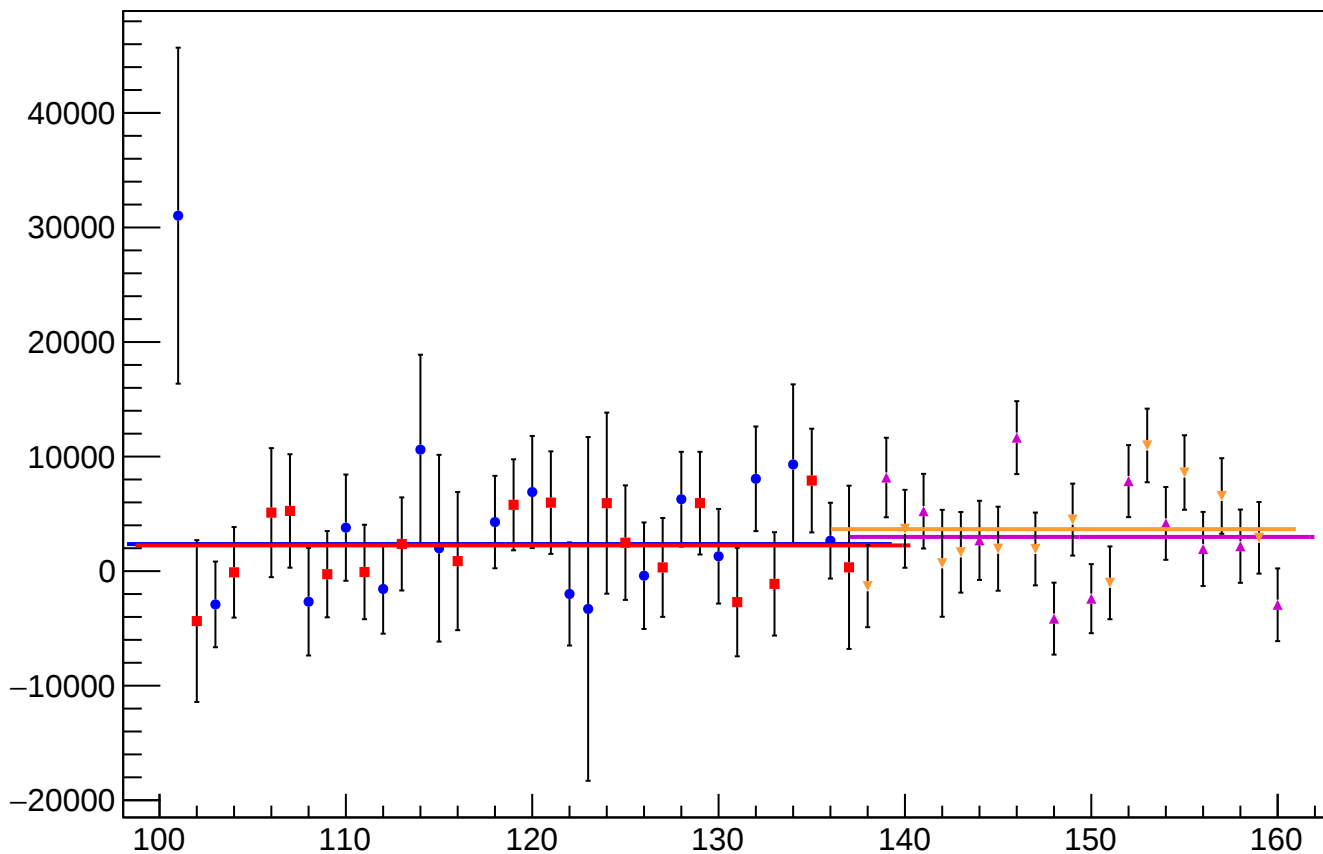
Out: -129.646 $\pm$ 177.356  $\chi^2/\text{NDF}$ : 67.6/29

All: -12.872 $\pm$ 125.875  $\chi^2/\text{NDF}$ : 95.8/57

# asym\_atr1\_correction\_rms vs Slug, Sign Corrected



# asym\_atr1\_mean vs Slug, Sign Corrected



Right In: 2362.798 $\pm$ 1159.943  $\chi^2$ /NDF: 15.1/16

Left Out: 3664.817 $\pm$ 975.625  $\chi^2$ /NDF:13.8/11

Right Out: 2245.410 $\pm$ 1111.935  $\chi^2$ /NDF: 8.5/17

Left In: 2985.990 $\pm$ 969.553  $\chi^2$ /NDF:24.7/10

Left: 3323.285 $\pm$ 687.714  $\chi^2$ /NDF: 38.7/22

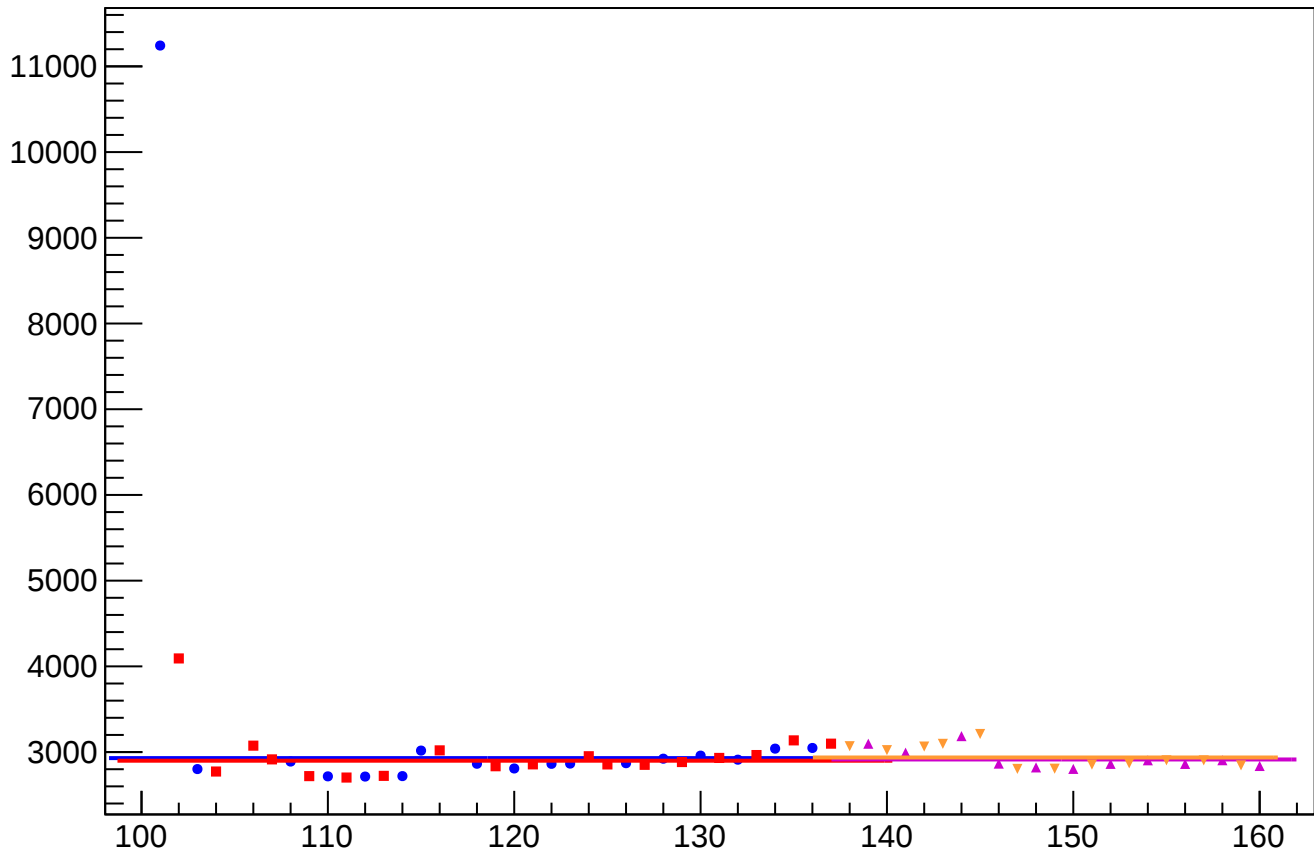
Right: 2301.625 $\pm$ 802.692  $\chi^2$ /NDF: 23.6/34

In: 2729.669 $\pm$ 743.905  $\chi^2$ /NDF:39.9/27

Out: 3047.402 $\pm$ 733.355  $\chi^2$ /NDF:23.2/29

All: 2890.805 $\pm$ 522.251  $\chi^2$ /NDF: 63.2/57

# asym\_atr1\_rms vs Slug, Sign Corrected



Right In: 2929.654+/-0.820  $\chi^2/\text{NDF}$ : 662629.0/16

Left Out: 2936.747+/-0.690  $\chi^2/\text{NDF}$ : 32107.5/11

Right Out: 2899.431+/-0.786  $\chi^2/\text{NDF}$ : 83543.1/17

Left In: 2913.740+/-0.686  $\chi^2/\text{NDF}$ : 26312.6/10

Left: 2925.172+/-0.486  $\chi^2/\text{NDF}$ : 58979.7/22

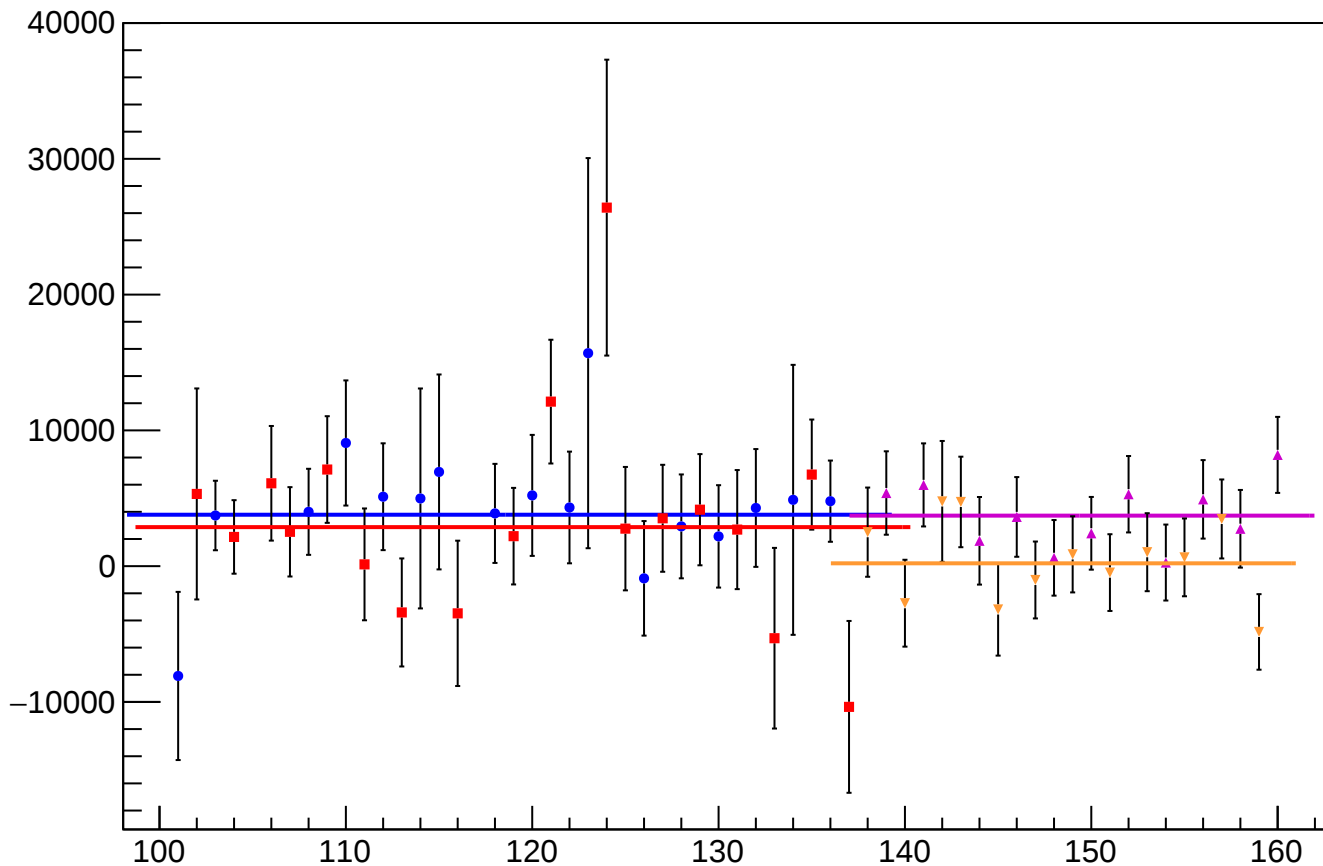
Right: 2913.904+/-0.568  $\chi^2/\text{NDF}$ : 746879.7/34

In: 2920.285+/-0.526  $\chi^2/\text{NDF}$ : 689163.2/27

Out: 2920.515+/-0.519  $\chi^2/\text{NDF}$ : 116923.3/29

All: 2920.402+/-0.369  $\chi^2/\text{NDF}$ : 806086.6/57

# dit\_asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 3787.840 $\pm$ 1008.120  $\chi^2$ /NDF: 7.7/16

Left Out: 208.982 $\pm$ 882.236  $\chi^2$ /NDF:10.2/11

Right Out: 2874.691 $\pm$ 1004.077  $\chi^2$ /NDF: 22.0/17

Left In: 3720.944 $\pm$ 871.354  $\chi^2$ /NDF:7.3/10

Left: 1986.756 $\pm$ 619.952  $\chi^2$ /NDF: 25.5/22

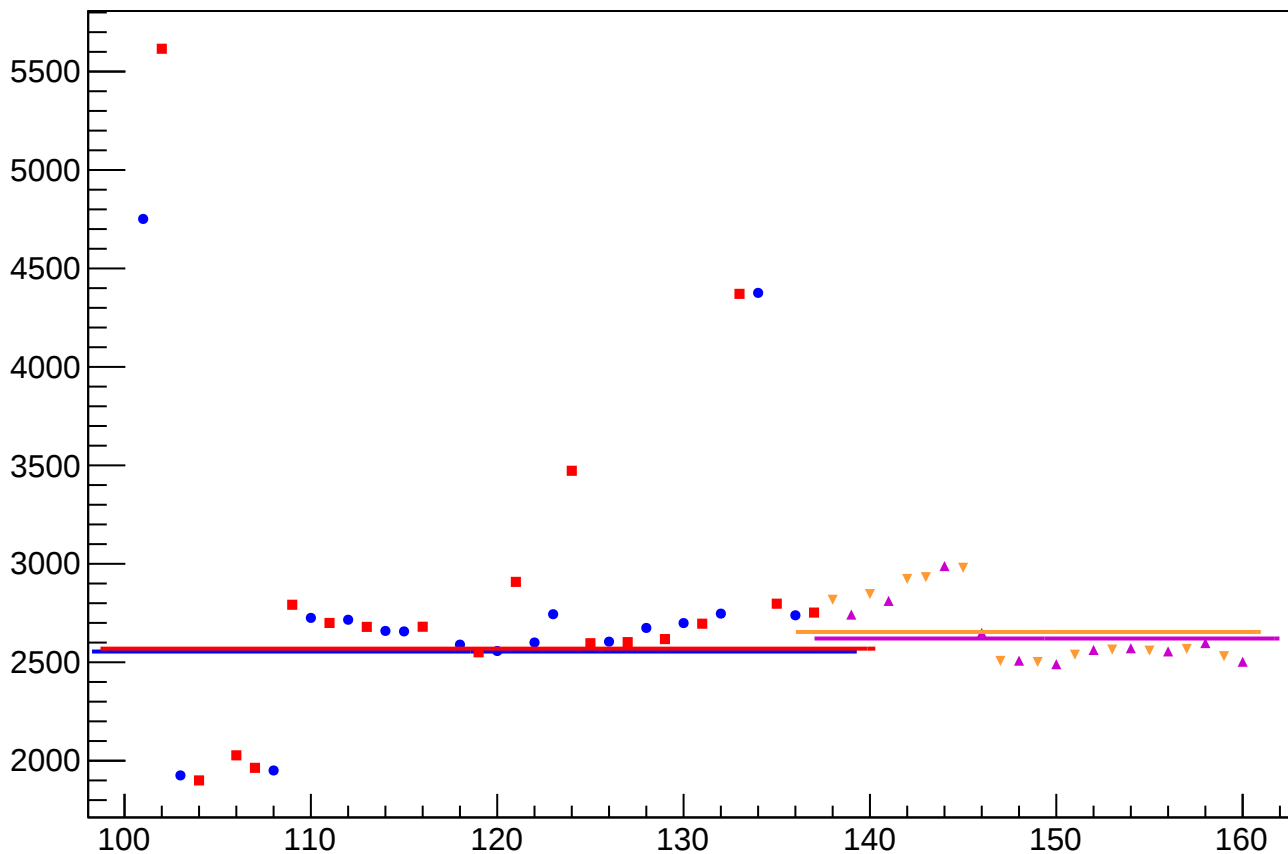
Right: 3329.431 $\pm$ 711.415  $\chi^2$ /NDF: 30.2/34

In: 3749.550 $\pm$ 659.233  $\chi^2$ /NDF:15.1/27

Out: 1370.368 $\pm$ 662.749  $\chi^2$ /NDF:36.2/29

All: 2566.288 $\pm$ 467.386  $\chi^2$ /NDF: 57.7/57

dit\_asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 2554.537 $\pm$ 0.713  $\chi^2$ /NDF: 536626.0/16

Left Out: 2653.968 $\pm$ 0.624  $\chi^2$ /NDF: 76257.2/11

Right Out: 2569.256 $\pm$ 0.710  $\chi^2$ /NDF: 723332.1/17

Left In: 2620.653 $\pm$ 0.616  $\chi^2$ /NDF: 51330.9/10

Left: 2637.104 $\pm$ 0.438  $\chi^2$ /NDF: 129031.7/22

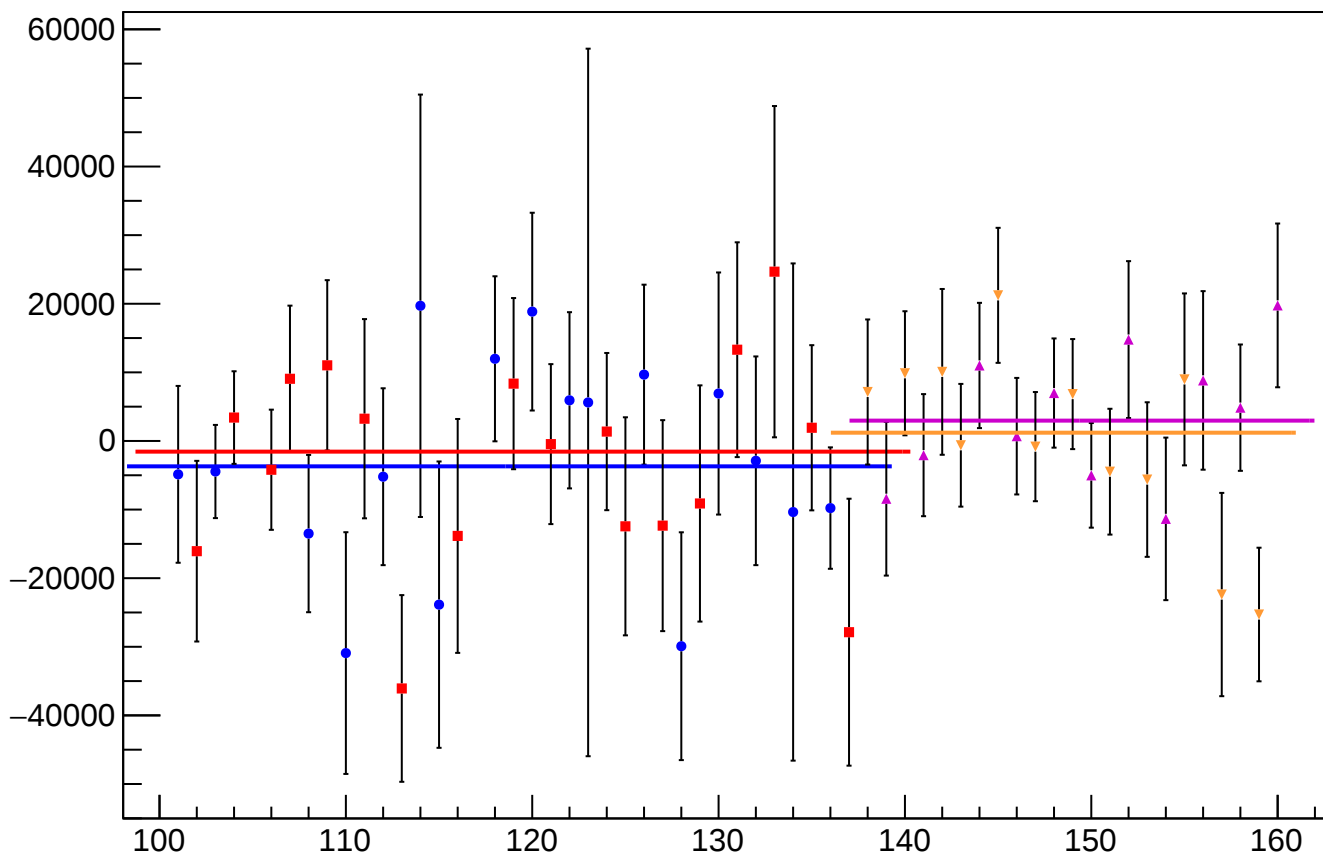
Right: 2561.929 $\pm$ 0.503  $\chi^2$ /NDF: 1260172.2/34

In: 2592.381 $\pm$ 0.466  $\chi^2$ /NDF: 592880.8/27

Out: 2617.044 $\pm$ 0.469  $\chi^2$ /NDF: 807626.7/29

All: 2604.649 $\pm$ 0.330  $\chi^2$ /NDF: 1401900.0/57

asym\_atr2\_correction\_mean vs Slug, Sign Corrected



Right In: -3699.522 $\pm$ 3217.843  $\chi^2/\text{NDF}$ : 13.8/16

Left Out: 1205.764 $\pm$ 2846.317  $\chi^2/\text{NDF}$ : 17.6/11

Right Out: -1555.707 $\pm$ 2911.769  $\chi^2/\text{NDF}$ : 16.8/17

Left In: 2964.931 $\pm$ 2899.464  $\chi^2/\text{NDF}$ : 8.3/10

Left: 2069.077 $\pm$ 2031.180  $\chi^2/\text{NDF}$ : 26.1/22

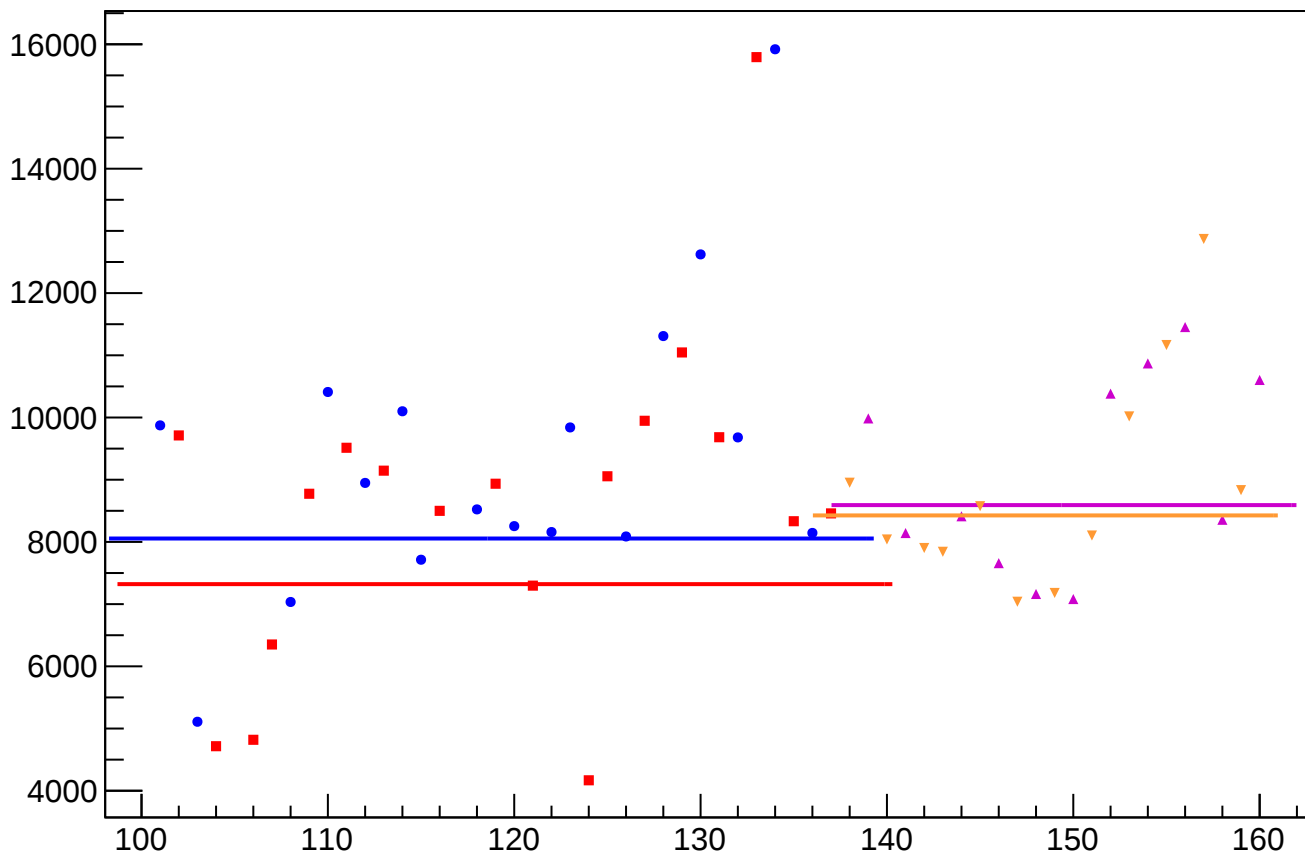
Right: -2520.832 $\pm$ 2159.052  $\chi^2/\text{NDF}$ : 30.8/34

In: -21.377 $\pm$ 2154.021  $\chi^2/\text{NDF}$ : 24.5/27

Out: -143.586 $\pm$ 2035.396  $\chi^2/\text{NDF}$ : 34.8/29

All: -85.939 $\pm$ 1479.402  $\chi^2/\text{NDF}$ : 59.3/57

asym\_atr2\_correction\_rms vs Slug, Sign Corrected



Right In: 8054.772 $\pm$ 2.275  $\chi^2$ /NDF: 820763.4/16

Left Out: 8426.075 $\pm$ 2.013  $\chi^2$ /NDF: 451904.8/11

Right Out: 7321.428 $\pm$ 2.059  $\chi^2$ /NDF: 1335956.4/17

Left In: 8591.903 $\pm$ 2.050  $\chi^2$ /NDF: 481852.2/10

Left: 8507.455 $\pm$ 1.436  $\chi^2$ /NDF: 937088.5/22

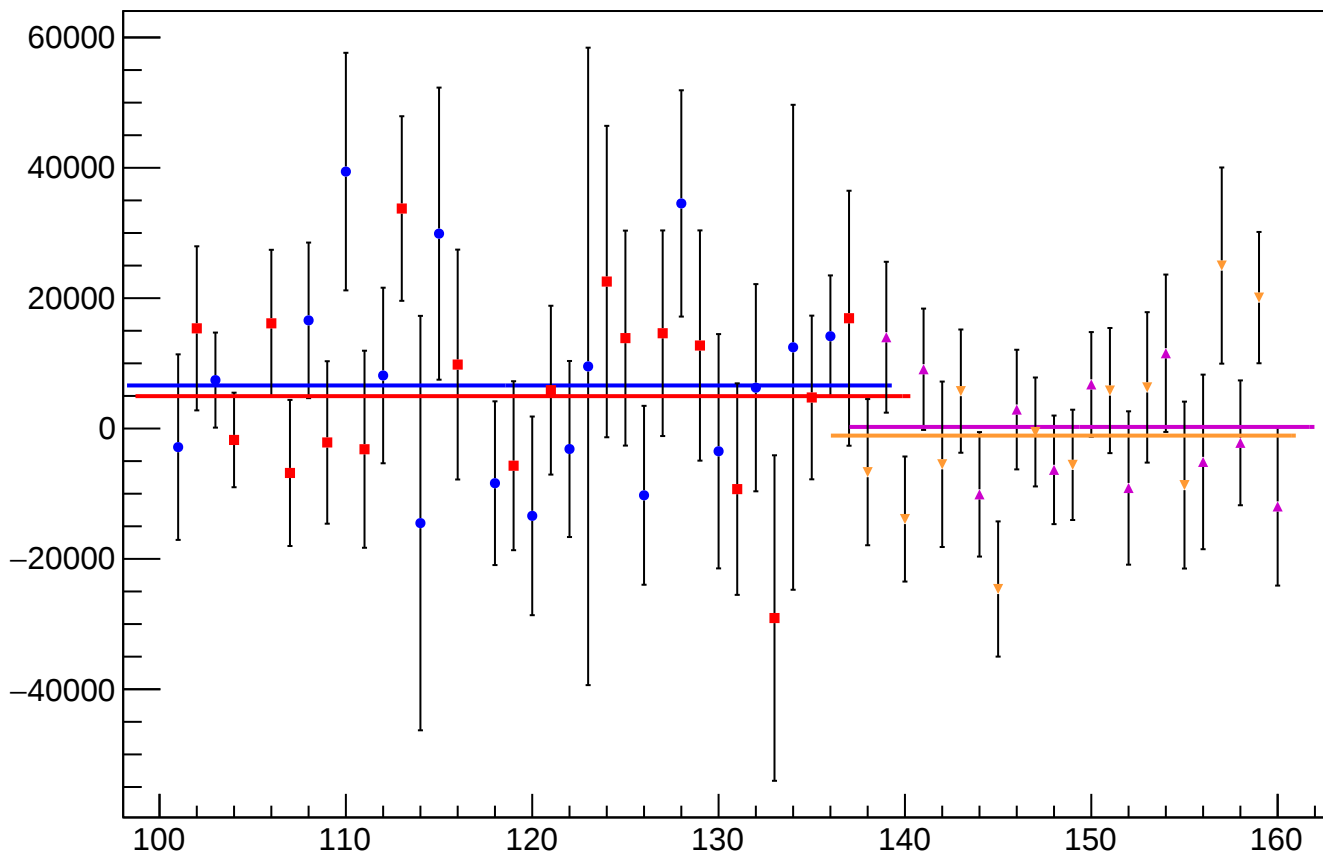
Right: 7651.572 $\pm$ 1.527  $\chi^2$ /NDF: 2213832.0/34

In: 8351.217 $\pm$ 1.523  $\chi^2$ /NDF: 1333371.1/27

Out: 7886.306 $\pm$ 1.439  $\chi^2$ /NDF: 1935056.8/29

All: 8105.608 $\pm$ 1.046  $\chi^2$ /NDF: 3317648.3/57

# asym\_atr2\_mean vs Slug, Sign Corrected



Right In: 6607.332+/-3395.867  $\chi^2/\text{NDF}$ : 14.7/16

Left Out: -1085.328+/-2981.139  $\chi^2/\text{NDF}$ : 16.8/11

Right Out: 4967.799+/-3176.866  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 245.391+/-3027.265  $\chi^2/\text{NDF}$ : 7.6/10

Left: -430.184+/-2124.104  $\chi^2/\text{NDF}$ : 24.5/22

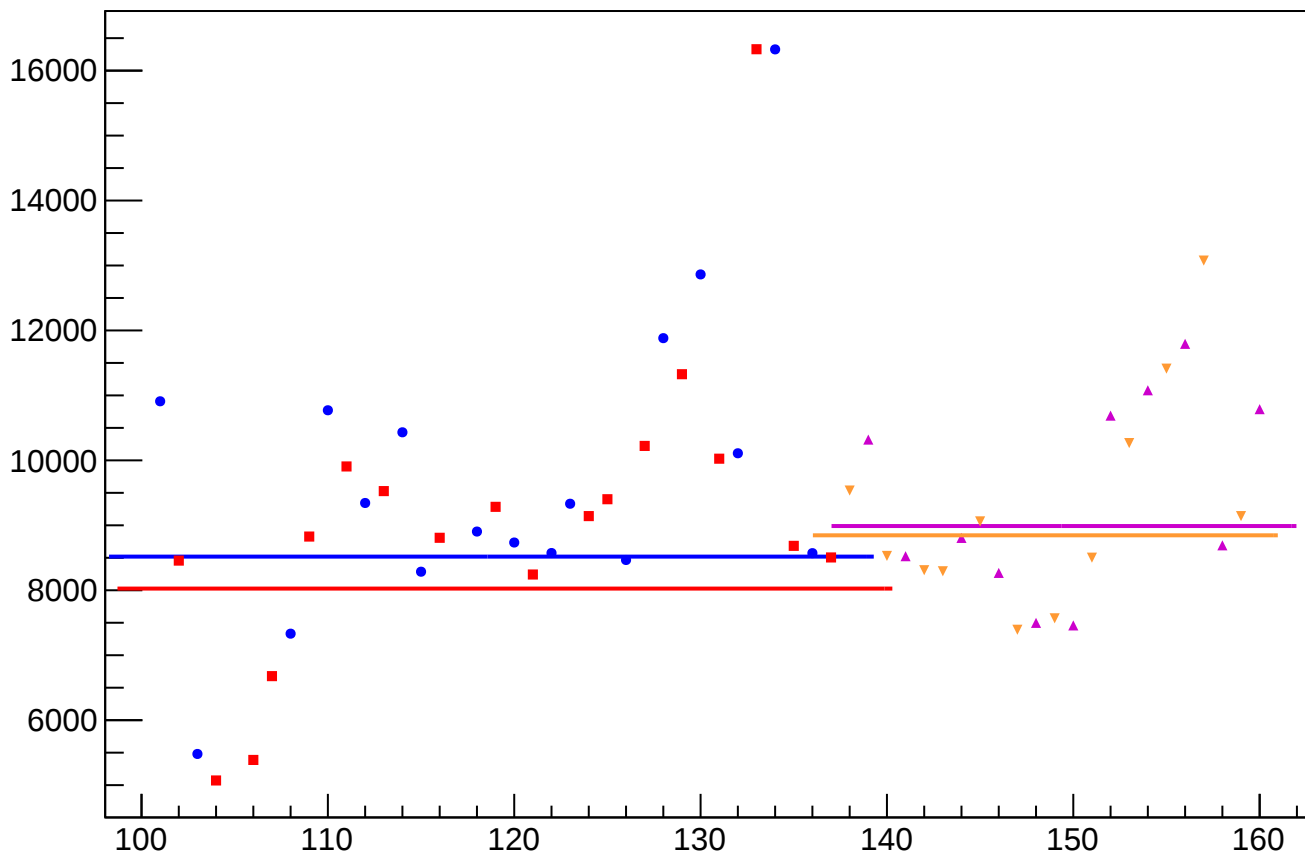
Right: 5732.997+/-2319.944  $\chi^2/\text{NDF}$ : 28.4/34

In: 3062.469+/-2259.724  $\chi^2/\text{NDF}$ : 24.3/27

Out: 1749.037+/-2173.886  $\chi^2/\text{NDF}$ : 32.3/29

All: 2380.334+/-1566.637  $\chi^2/\text{NDF}$ : 56.7/57

# asym\_atr2\_rms vs Slug, Sign Corrected



Right In: 8518.273 $\pm$ 2.401  $\chi^2/\text{NDF}$ : 771995.0/16

Left Out: 8846.076 $\pm$ 2.108  $\chi^2/\text{NDF}$ : 400072.3/11

Right Out: 8026.045 $\pm$ 2.246  $\chi^2/\text{NDF}$ : 942657.8/17

Left In: 8988.948 $\pm$ 2.141  $\chi^2/\text{NDF}$ : 416453.8/10

Left: 8916.415 $\pm$ 1.502  $\chi^2/\text{NDF}$ : 818787.7/22

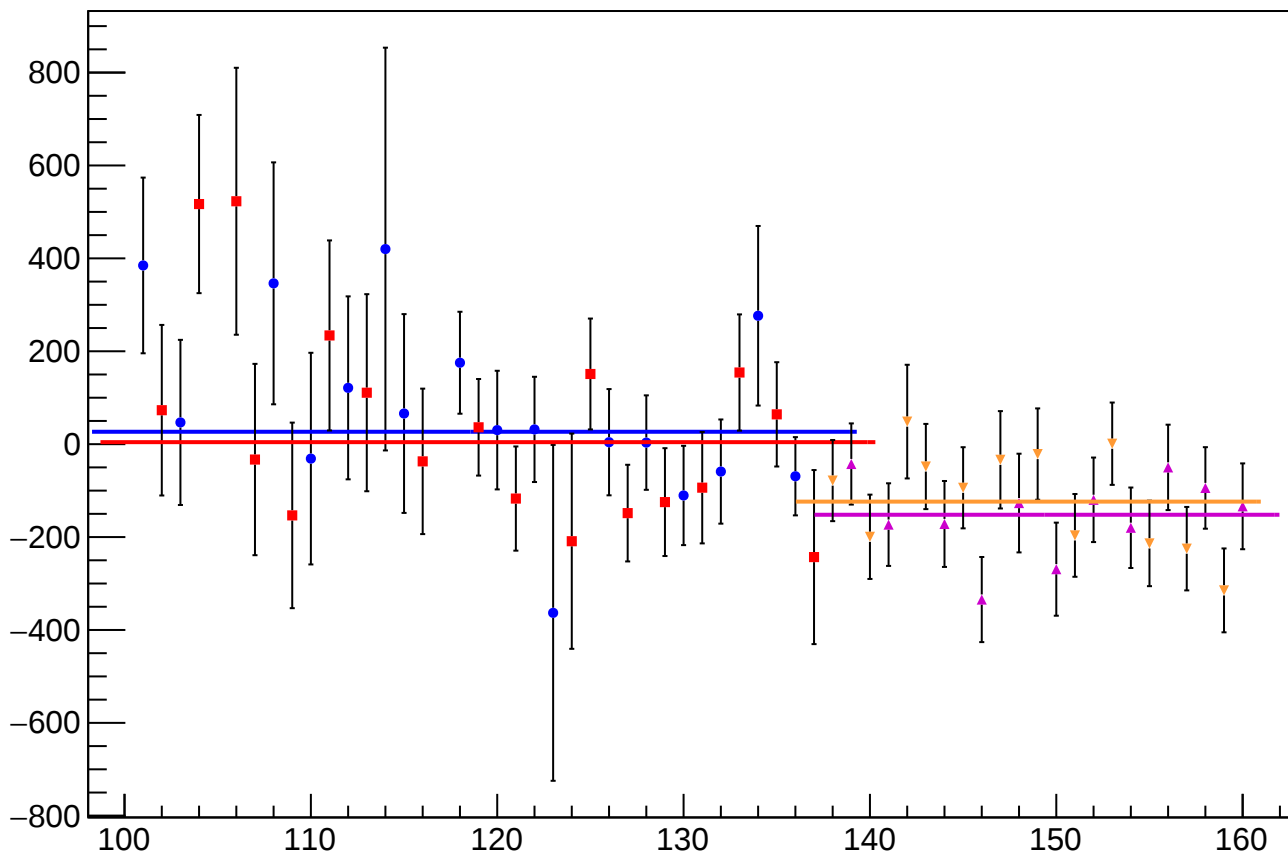
Right: 8255.767 $\pm$ 1.640  $\chi^2/\text{NDF}$ : 1737062.4/34

In: 8780.532 $\pm$ 1.598  $\chi^2/\text{NDF}$ : 1209857.1/27

Out: 8462.083 $\pm$ 1.537  $\chi^2/\text{NDF}$ : 1413592.9/29

All: 8615.142 $\pm$ 1.108  $\chi^2/\text{NDF}$ : 2644078.6/57

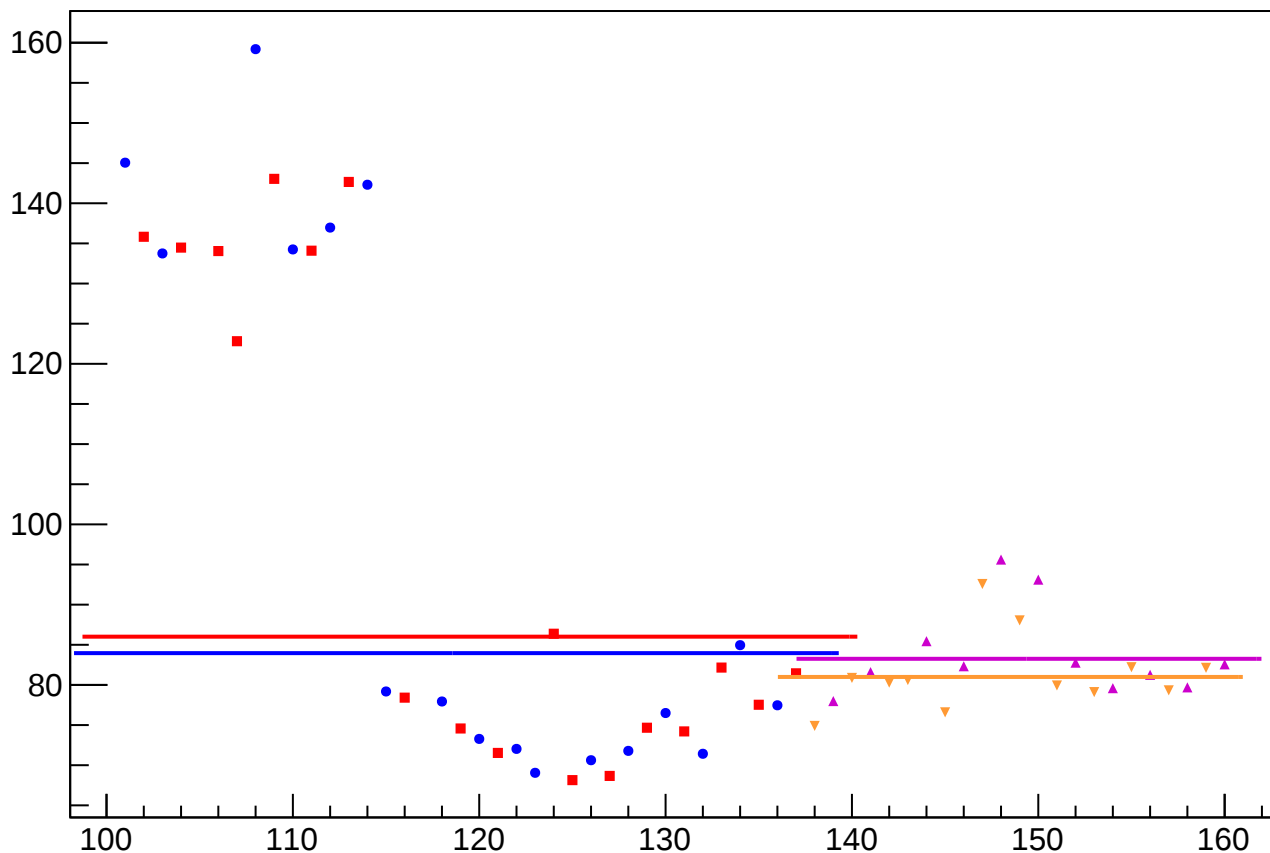
# dit\_asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 26.713 $\pm$ 33.626  $\chi^2/\text{NDF}$ : 14.5/16  
Left Out: -123.663 $\pm$ 26.904  $\chi^2/\text{NDF}$ : 14.9/11  
Right Out: 4.338 $\pm$ 33.842  $\chi^2/\text{NDF}$ : 23.9/17  
Left In: -151.976 $\pm$ 27.724  $\chi^2/\text{NDF}$ : 9.0/10

Left: -137.395 $\pm$ 19.307  $\chi^2/\text{NDF}$ : 24.4/22  
Right: 15.597 $\pm$ 23.853  $\chi^2/\text{NDF}$ : 38.7/34  
In: -79.664 $\pm$ 21.391  $\chi^2/\text{NDF}$ : 40.3/27  
Out: -74.094 $\pm$ 21.060  $\chi^2/\text{NDF}$ : 47.6/29  
All: -76.836 $\pm$ 15.007  $\chi^2/\text{NDF}$ : 88.0/57

# dit\_asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 83.961+/-0.024  $\chi^2/\text{NDF}$ : 960253.6/16

Left Out: 80.994+/-0.019  $\chi^2/\text{NDF}$ : 52183.2/11

Right Out: 86.012+/-0.024  $\chi^2/\text{NDF}$ : 1026404.0/17

Left In: 83.254+/-0.020  $\chi^2/\text{NDF}$ : 63704.1/10

Left: 82.090+/-0.014  $\chi^2/\text{NDF}$ : 122732.5/22

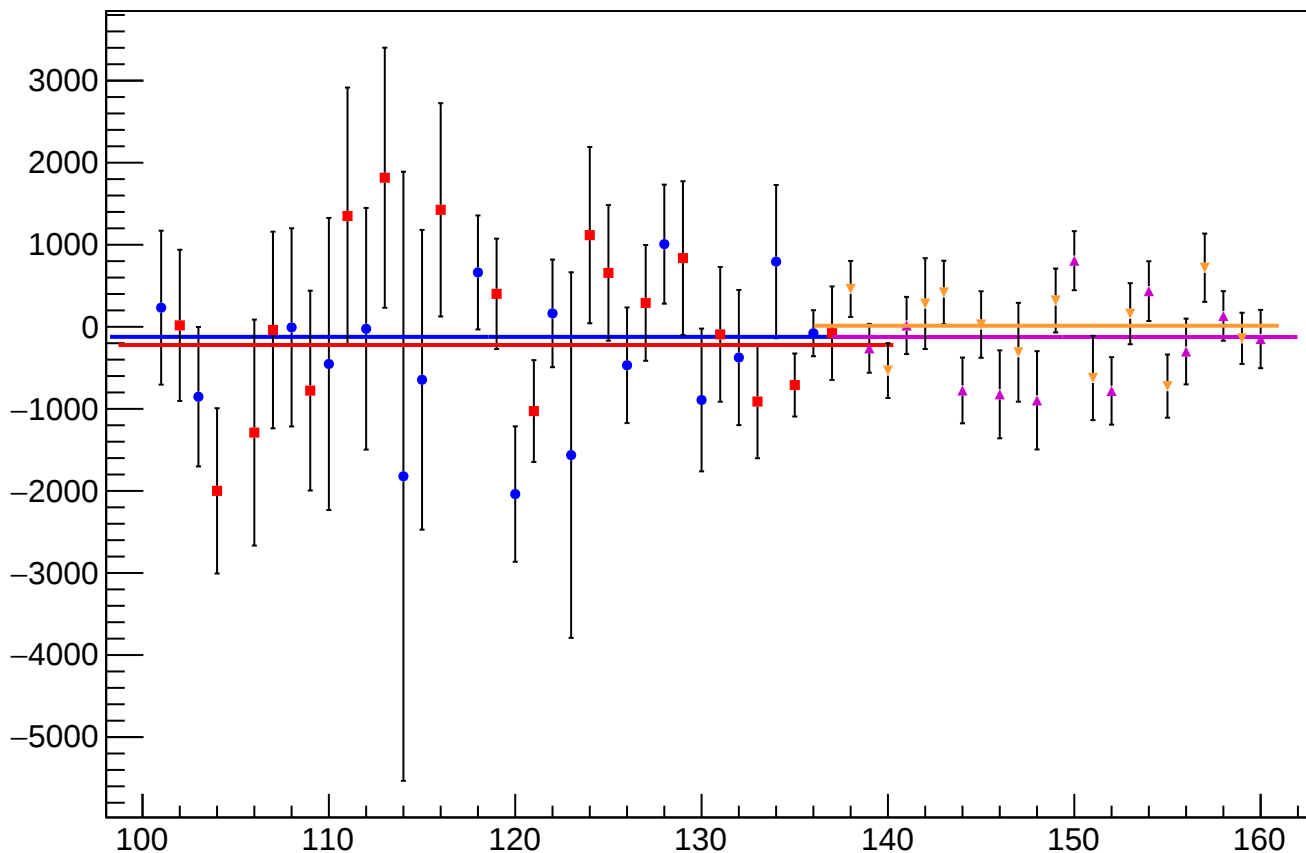
Right: 84.980+/-0.017  $\chi^2/\text{NDF}$ : 1990355.7/34

In: 83.540+/-0.015  $\chi^2/\text{NDF}$ : 1024483.0/27

Out: 82.937+/-0.015  $\chi^2/\text{NDF}$ : 1105529.4/29

All: 83.234+/-0.011  $\chi^2/\text{NDF}$ : 2130818.7/57

asym\_sam1\_correction\_mean vs Slug, Sign Corrected



Right In: -122.410 $\pm$ 179.587  $\chi^2/\text{NDF}$ : 13.0/16

Left Out: 12.870 $\pm$ 114.156  $\chi^2/\text{NDF}$ :15.1/11

Right Out: -221.525 $\pm$ 185.098  $\chi^2/\text{NDF}$ : 18.0/17

Left In: -124.444 $\pm$ 113.002  $\chi^2/\text{NDF}$ :18.9/10

Left: -56.484 $\pm$ 80.310  $\chi^2/\text{NDF}$ : 34.7/22

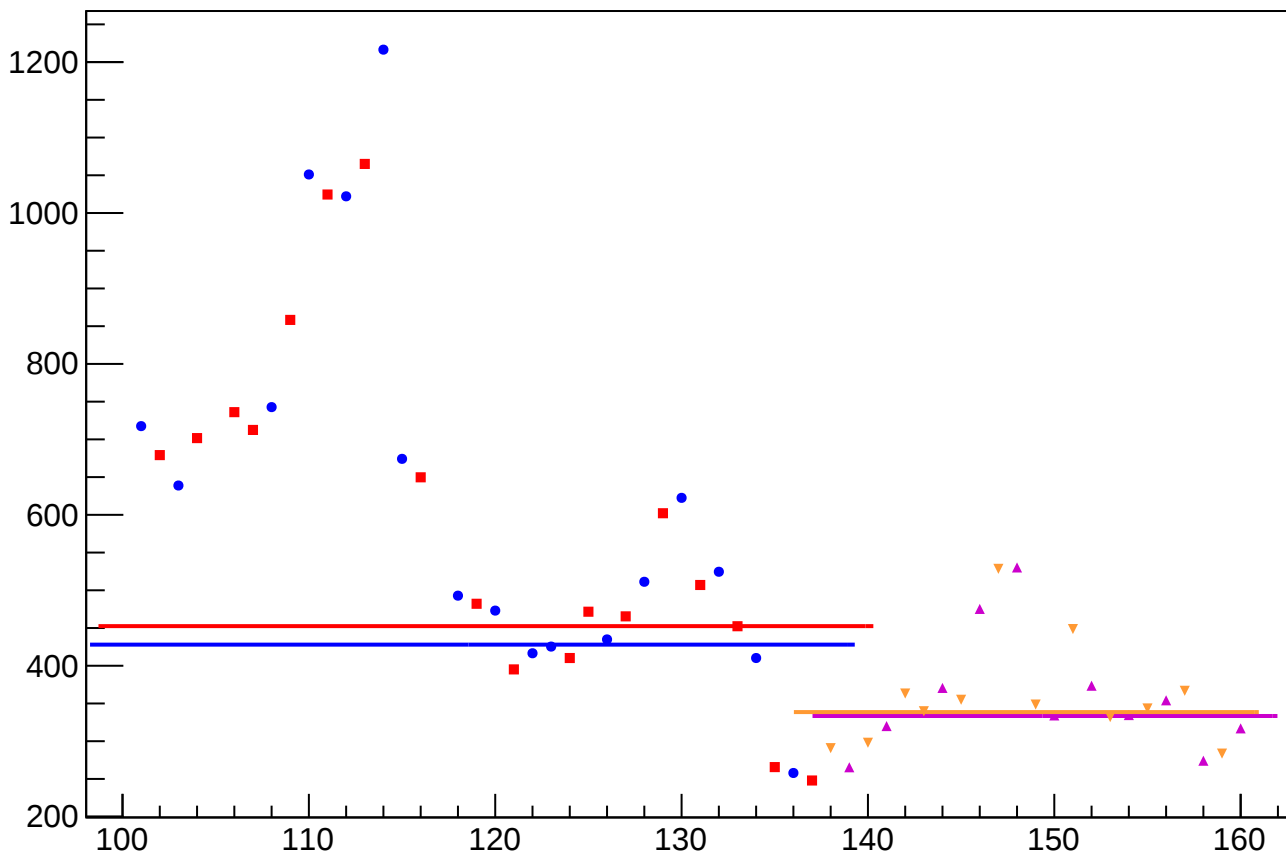
Right: -170.470 $\pm$ 128.892  $\chi^2/\text{NDF}$ : 31.2/34

In: -123.867 $\pm$ 95.643  $\chi^2/\text{NDF}$ :31.9/27

Out: -51.718 $\pm$ 97.163  $\chi^2/\text{NDF}$ :34.3/29

All: -88.361 $\pm$ 68.161  $\chi^2/\text{NDF}$ : 66.5/57

asym\_sam1\_correction\_rms vs Slug, Sign Corrected



Right In: 427.986+/-0.127  $\chi^2/\text{NDF}$ : 2062245.9/16

Left Out: 338.600+/-0.081  $\chi^2/\text{NDF}$ : 439913.5/11

Right Out: 452.508+/-0.131  $\chi^2/\text{NDF}$ : 2073032.9/17

Left In: 333.409+/-0.080  $\chi^2/\text{NDF}$ : 586430.2/10

Left: 335.978+/-0.057  $\chi^2/\text{NDF}$ : 1028431.9/22

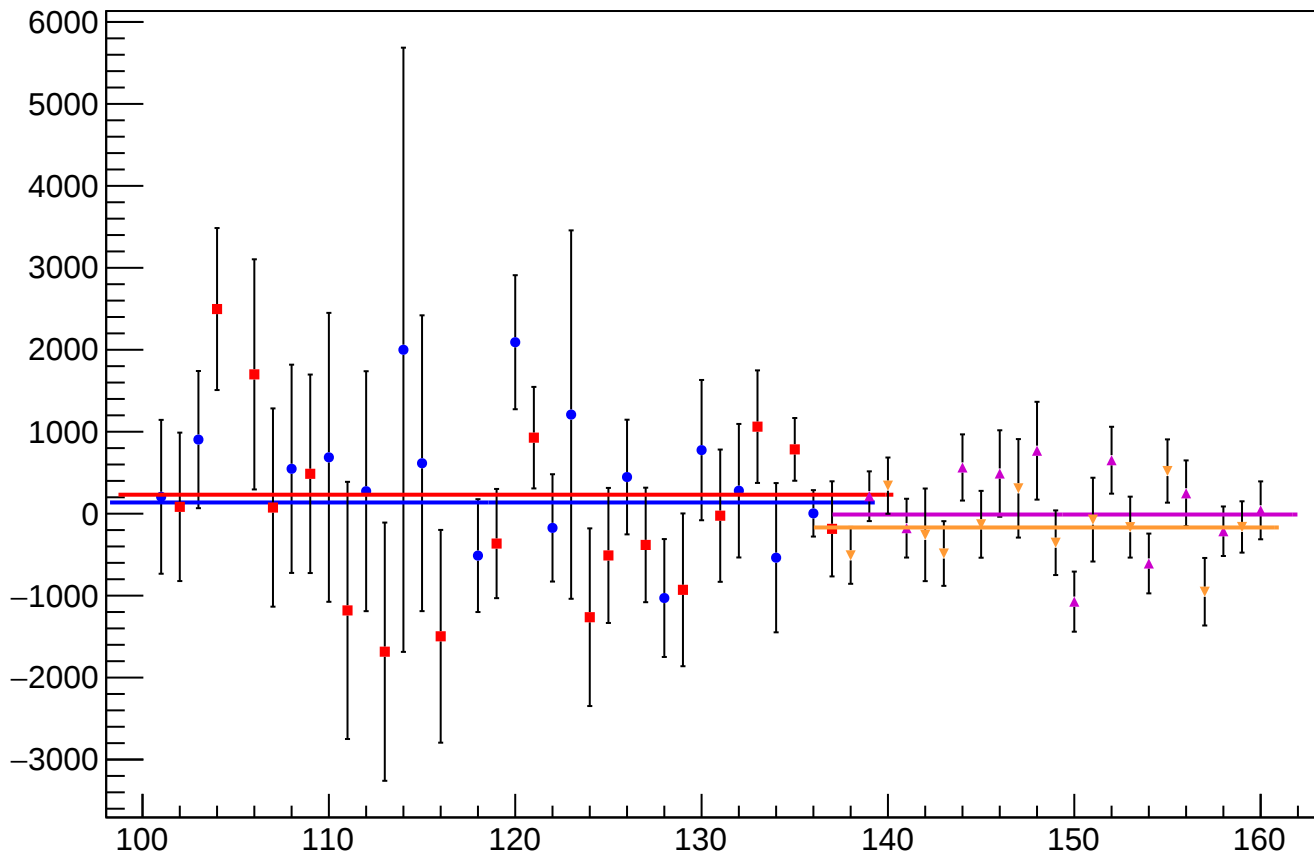
Right: 439.876+/-0.091  $\chi^2/\text{NDF}$ : 4153360.2/34

In: 360.235+/-0.068  $\chi^2/\text{NDF}$ : 3046029.1/27

Out: 369.987+/-0.069  $\chi^2/\text{NDF}$ : 3061652.8/29

All: 365.034+/-0.048  $\chi^2/\text{NDF}$ : 6117915.6/57

# asym\_sam1\_mean vs Slug, Sign Corrected



Right In: 136.810 $\pm$ 179.609  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: -168.242 $\pm$ 115.155  $\chi^2/\text{NDF}$ : 11.5/11

Right Out: 231.586 $\pm$ 184.578  $\chi^2/\text{NDF}$ : 21.8/17

Left In: -10.273 $\pm$ 113.754  $\chi^2/\text{NDF}$ : 20.0/10

Left: -88.291 $\pm$ 80.927  $\chi^2/\text{NDF}$ : 32.5/22

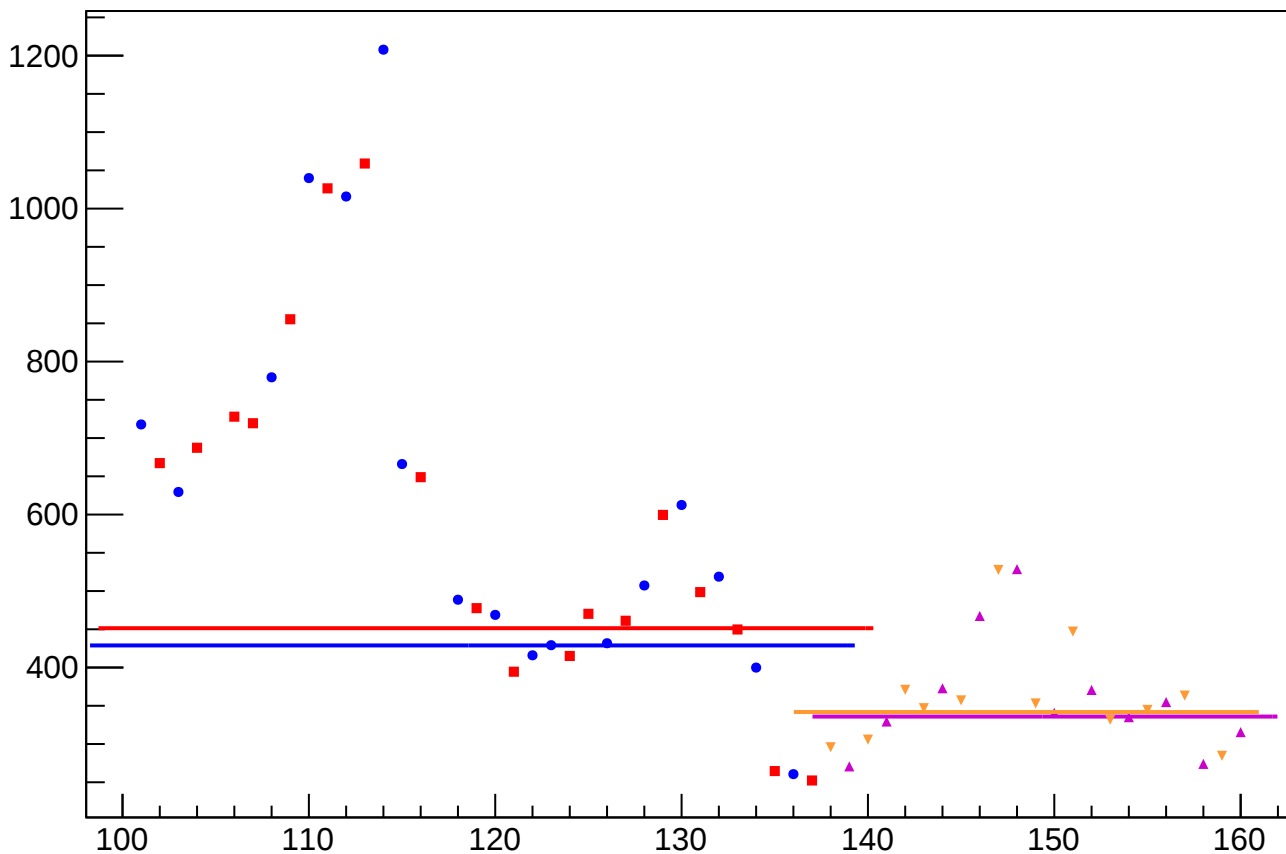
Right: 182.905 $\pm$ 128.724  $\chi^2/\text{NDF}$ : 34.5/34

In: 31.835 $\pm$ 96.101  $\chi^2/\text{NDF}$ : 33.1/27

Out: -56.220 $\pm$ 97.700  $\chi^2/\text{NDF}$ : 36.7/29

All: -11.466 $\pm$ 68.512  $\chi^2/\text{NDF}$ : 70.2/57

# asym\_sam1\_rms vs Slug, Sign Corrected



Right In: 428.889 $\pm$ 0.127  $\chi^2/\text{NDF}$ : 2010592.5/16

Left Out: 341.868 $\pm$ 0.081  $\chi^2/\text{NDF}$ : 416820.0/11

Right Out: 451.411 $\pm$ 0.131  $\chi^2/\text{NDF}$ : 2030742.8/17

Left In: 335.891 $\pm$ 0.080  $\chi^2/\text{NDF}$ : 552420.6/10

Left: 338.843 $\pm$ 0.057  $\chi^2/\text{NDF}$ : 971967.4/22

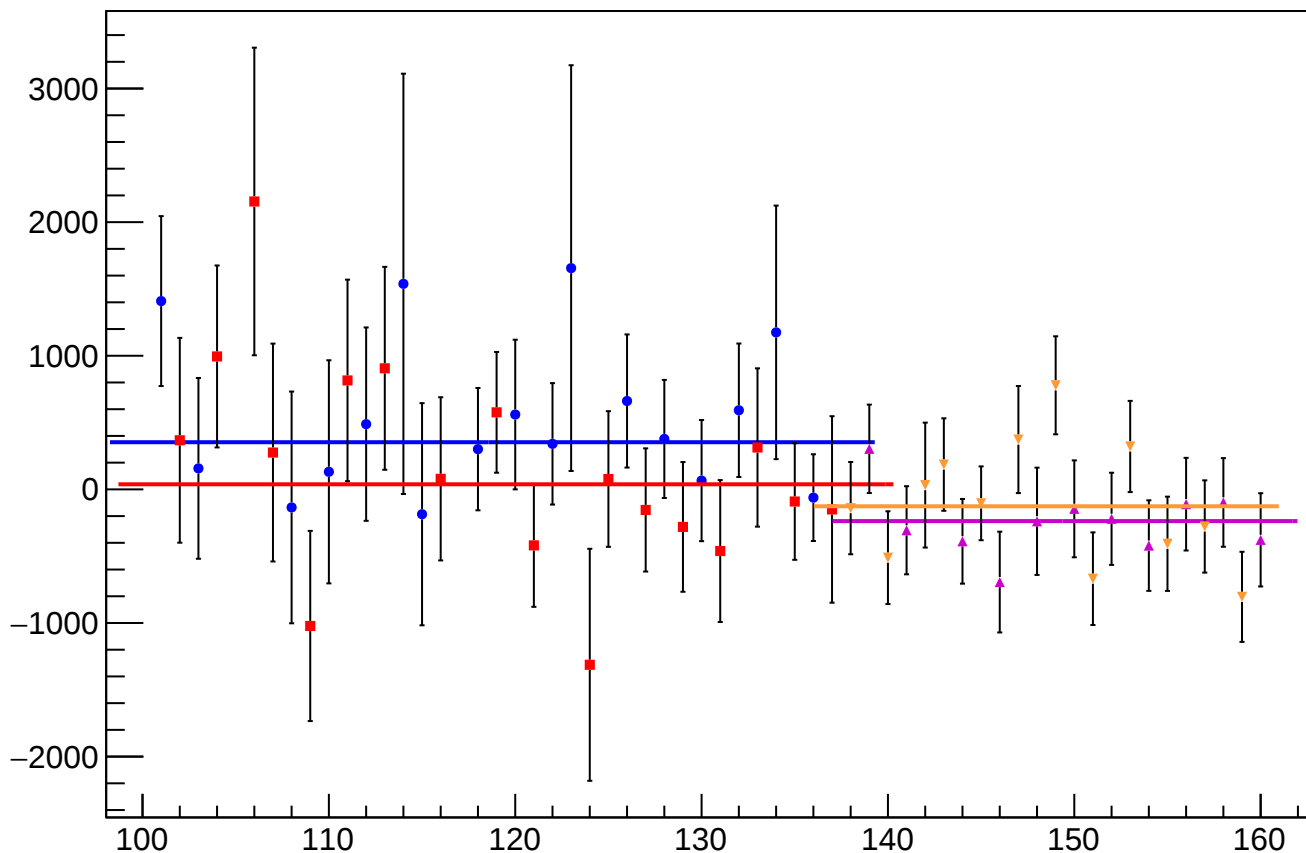
Right: 439.843 $\pm$ 0.091  $\chi^2/\text{NDF}$ : 4056629.4/34

In: 362.516 $\pm$ 0.068  $\chi^2/\text{NDF}$ : 2945700.6/27

Out: 372.559 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 2954626.4/29

All: 367.455 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 5911069.6/57

# dit\_asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 352.927 $\pm$ 137.298  $\chi^2/\text{NDF}$ : 8.5/16

Left Out: -126.521 $\pm$ 100.764  $\chi^2/\text{NDF}$ :18.8/11

Right Out: 37.982 $\pm$ 139.023  $\chi^2/\text{NDF}$ : 16.9/17

Left In: -237.414 $\pm$ 104.341  $\chi^2/\text{NDF}$ :5.2/10

Left: -180.034 $\pm$ 72.482  $\chi^2/\text{NDF}$ : 24.7/22

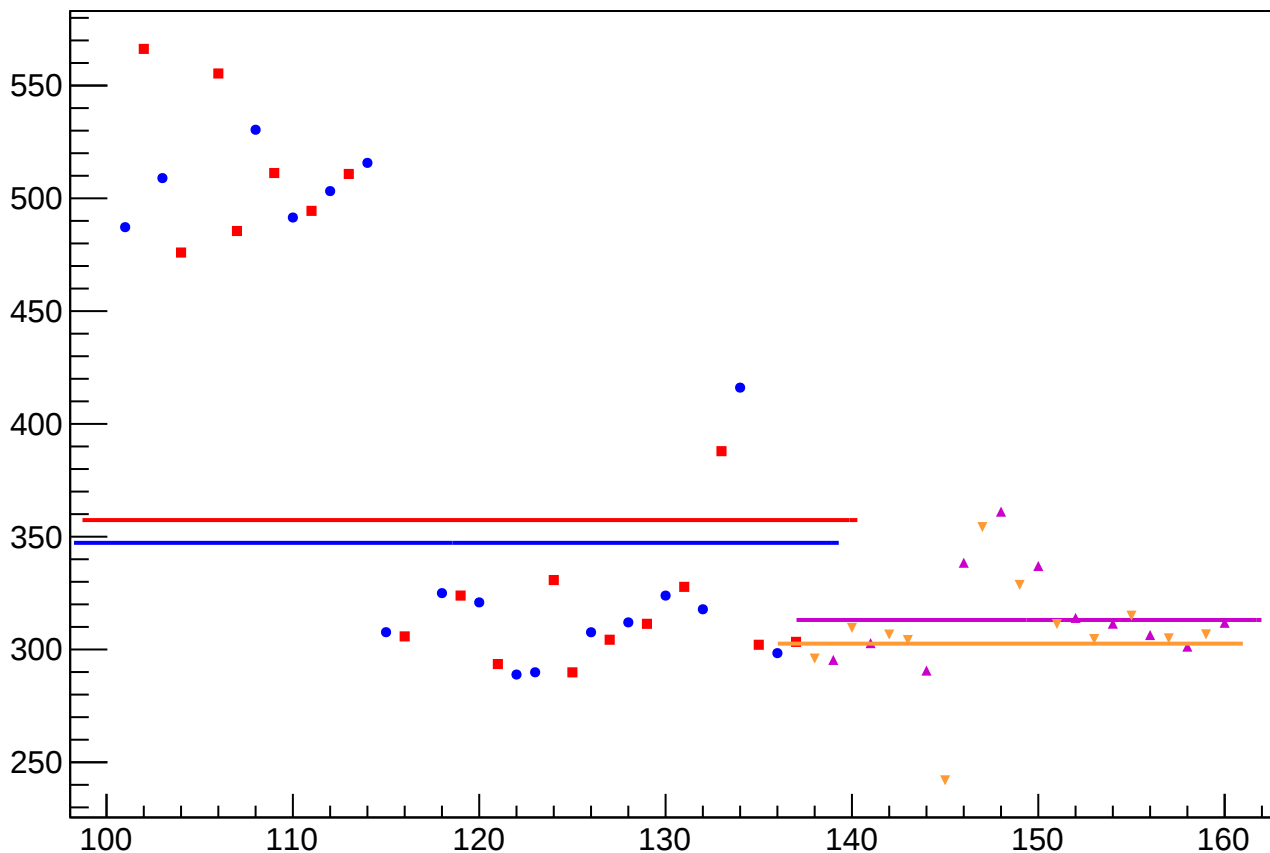
Right: 197.421 $\pm$ 97.689  $\chi^2/\text{NDF}$ : 28.1/34

In: -21.289 $\pm$ 83.074  $\chi^2/\text{NDF}$ :25.5/27

Out: -69.865 $\pm$ 81.587  $\chi^2/\text{NDF}$ :36.7/29

All: -46.016 $\pm$ 58.209  $\chi^2/\text{NDF}$ : 62.3/57

# dit\_asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 347.280+/-0.097  $\chi^2/\text{NDF}$ : 618906.8/16

Left Out: 302.593+/-0.071  $\chi^2/\text{NDF}$ : 145501.7/11

Right Out: 357.365+/-0.098  $\chi^2/\text{NDF}$ : 759938.5/17

Left In: 313.083+/-0.074  $\chi^2/\text{NDF}$ : 67418.7/10

Left: 307.655+/-0.051  $\chi^2/\text{NDF}$ : 223379.6/22

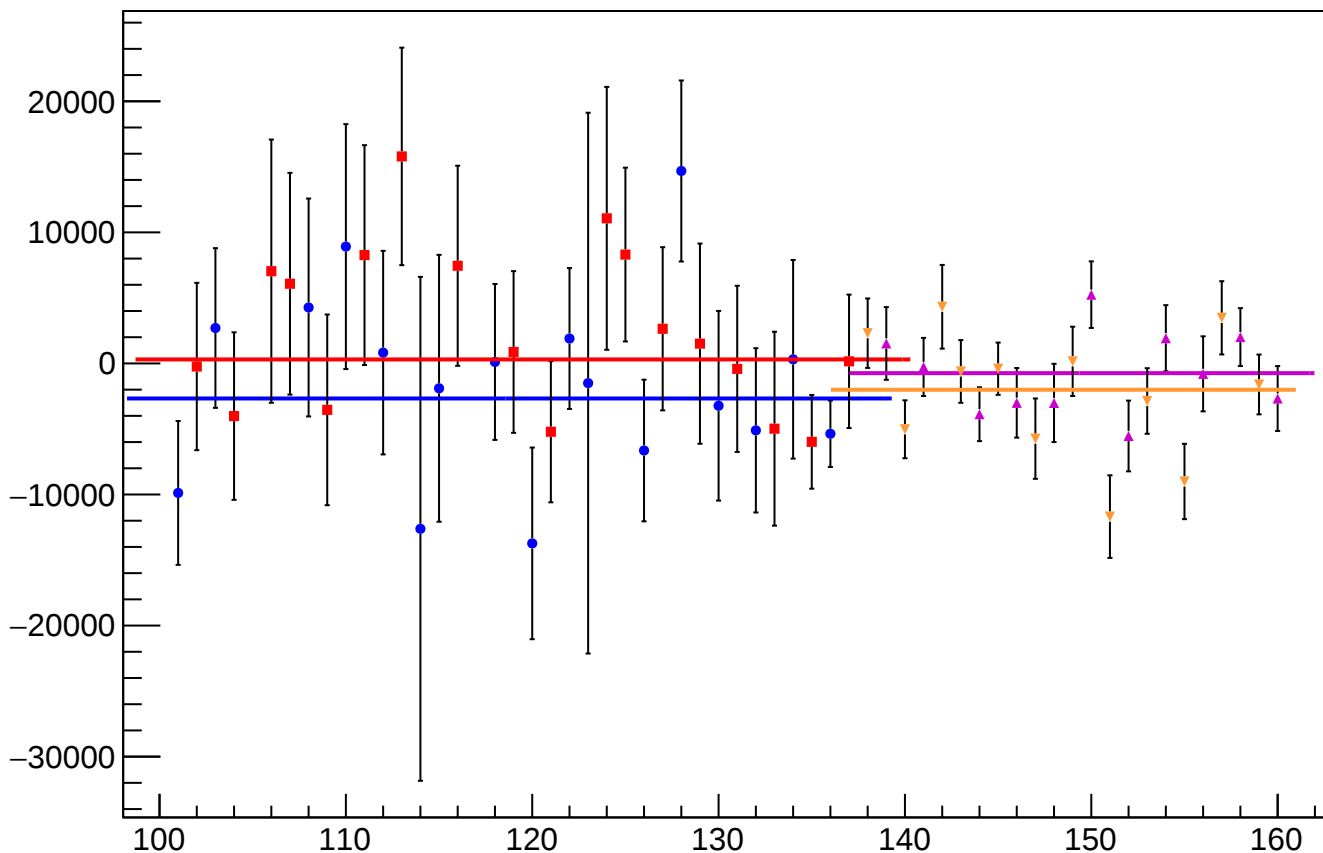
Right: 352.259+/-0.069  $\chi^2/\text{NDF}$ : 1384173.3/34

In: 325.602+/-0.059  $\chi^2/\text{NDF}$ : 764975.6/27

Out: 321.457+/-0.058  $\chi^2/\text{NDF}$ : 1108958.4/29

All: 323.492+/-0.041  $\chi^2/\text{NDF}$ : 1876469.2/57

asym\_sam2\_correction\_mean vs Slug, Sign Corrected



Right In: -2674.025 $\pm$ 1456.188  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -2008.402 $\pm$ 740.595  $\chi^2/\text{NDF}$ : 31.0/11

Right Out: 304.817 $\pm$ 1517.834  $\chi^2/\text{NDF}$ : 14.4/17

Left In: -740.476 $\pm$ 753.050  $\chi^2/\text{NDF}$ : 16.3/10

Left: -1385.012 $\pm$ 528.028  $\chi^2/\text{NDF}$ : 48.7/22

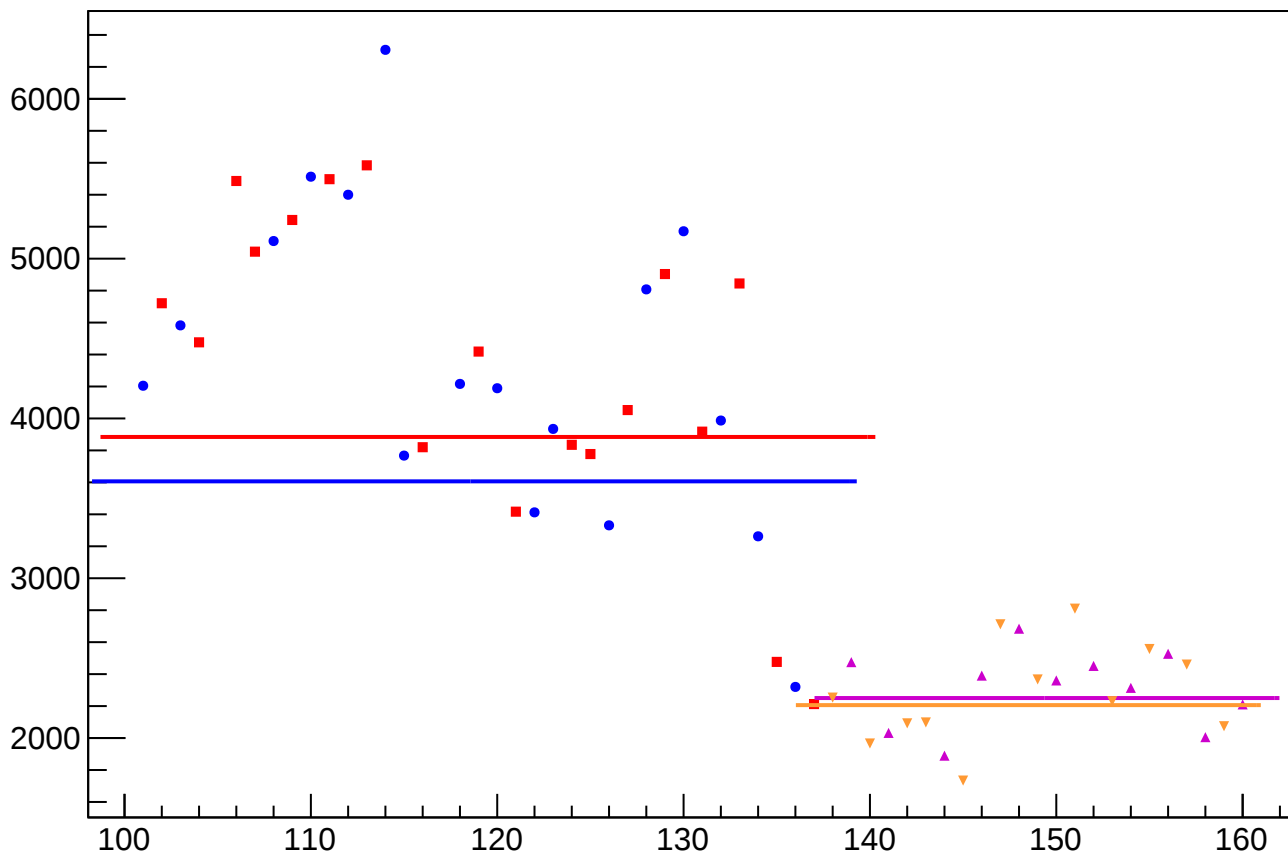
Right: -1246.323 $\pm$ 1050.798  $\chi^2/\text{NDF}$ : 33.1/34

In: -1148.461 $\pm$ 668.901  $\chi^2/\text{NDF}$ : 34.5/27

Out: -1563.583 $\pm$ 665.591  $\chi^2/\text{NDF}$ : 47.2/29

All: -1357.052 $\pm$ 471.810  $\chi^2/\text{NDF}$ : 81.9/57

asym\_sam2\_correction\_rms vs Slug, Sign Corrected



Right In: 3606.359+/-1.030  $\chi^2/\text{NDF}$ : 1092516.6/16

Left Out: 2206.014+/-0.524  $\chi^2/\text{NDF}$ : 331551.0/11

Right Out: 3884.203+/-1.073  $\chi^2/\text{NDF}$ : 994574.5/17

Left In: 2250.347+/-0.532  $\chi^2/\text{NDF}$ : 201845.5/10

Left: 2227.811+/-0.373  $\chi^2/\text{NDF}$ : 536920.2/22

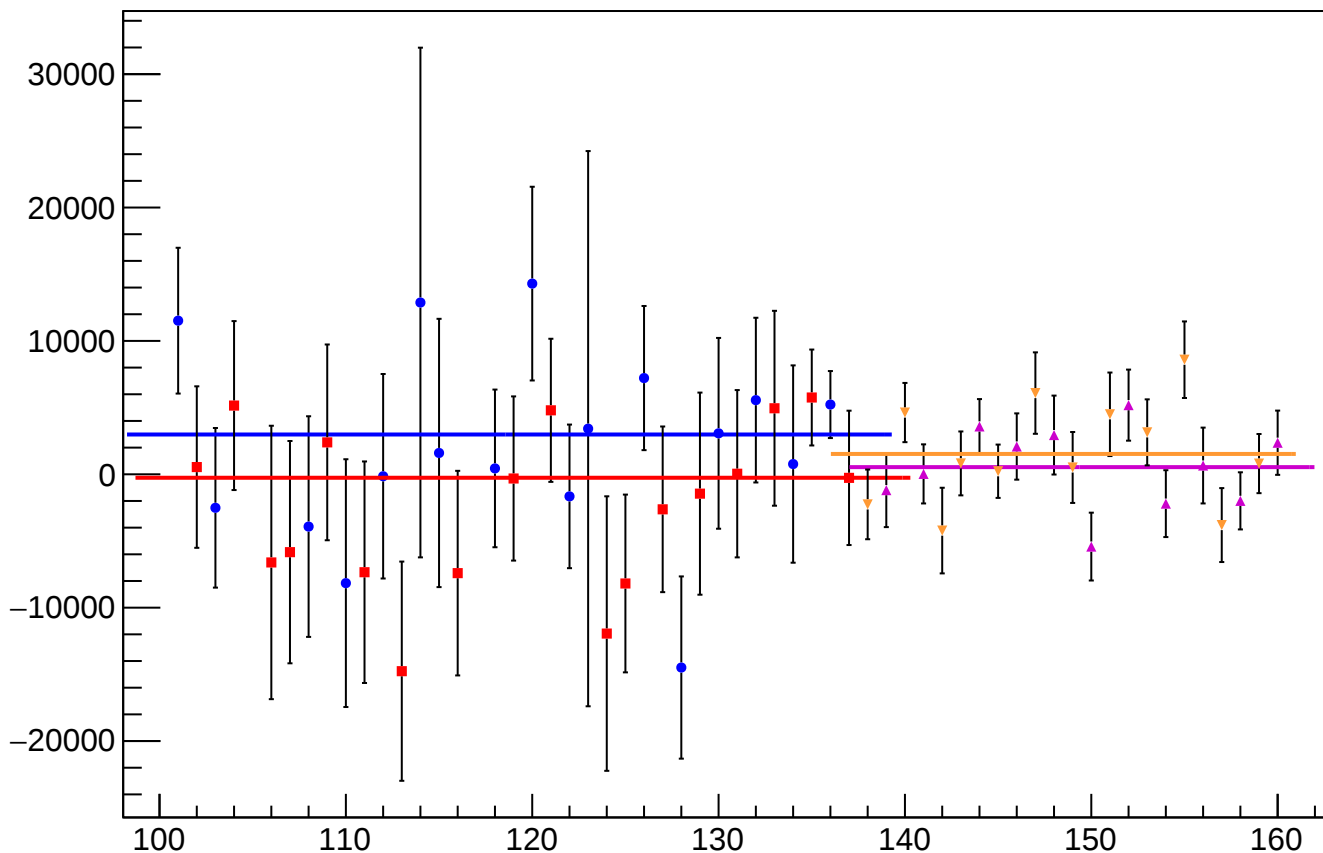
Right: 3739.524+/-0.743  $\chi^2/\text{NDF}$ : 2121988.0/34

In: 2536.470+/-0.473  $\chi^2/\text{NDF}$ : 2662713.2/27

Out: 2528.720+/-0.471  $\chi^2/\text{NDF}$ : 3300896.0/29

All: 2532.576+/-0.334  $\chi^2/\text{NDF}$ : 5963744.1/57

# asym\_sam2\_mean vs Slug, Sign Corrected



Right In: 2983.609+/-1443.630  $\chi^2/\text{NDF}$ : 17.4/16

Left Out: 1525.436+/-737.200  $\chi^2/\text{NDF}$ : 21.3/11

Right Out: -259.721+/-1510.344  $\chi^2/\text{NDF}$ : 13.5/17

Left In: 537.016+/-741.943  $\chi^2/\text{NDF}$ : 15.4/10

Left: 1034.395+/-522.948  $\chi^2/\text{NDF}$ : 37.6/22

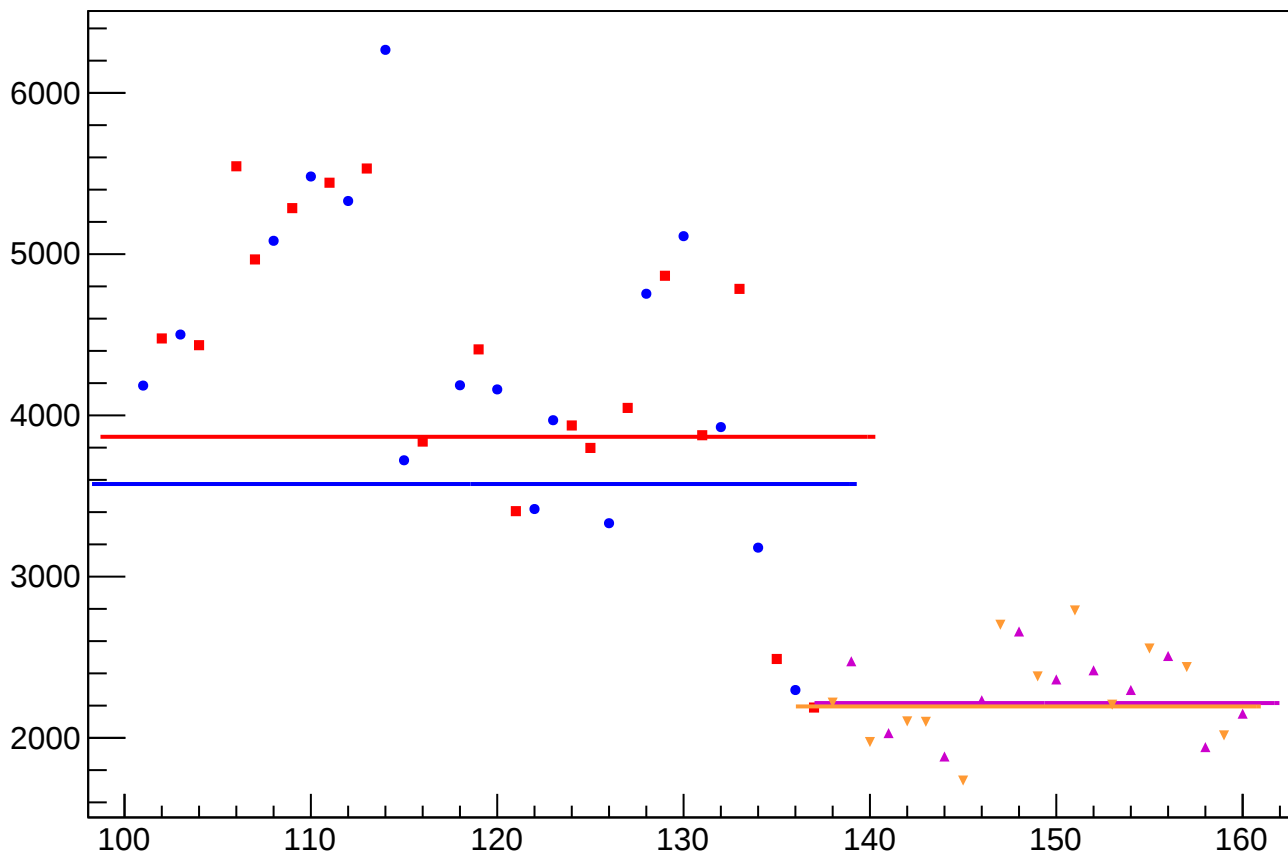
Right: 1435.156+/-1043.589  $\chi^2/\text{NDF}$ : 33.3/34

In: 1048.222+/-659.893  $\chi^2/\text{NDF}$ : 35.1/27

Out: 1181.966+/-662.495  $\chi^2/\text{NDF}$ : 36.0/29

All: 1114.831+/-467.532  $\chi^2/\text{NDF}$ : 71.1/57

# asym\_sam2\_rms vs Slug, Sign Corrected



Right In: 3574.362 $\pm$ 1.021  $\chi^2$ /NDF: 1091350.4/16

Left Out: 2194.949 $\pm$ 0.521  $\chi^2$ /NDF:327775.8/11

Right Out: 3867.232 $\pm$ 1.068  $\chi^2$ /NDF: 968137.9/17

Left In: 2215.915 $\pm$ 0.525  $\chi^2$ /NDF:204448.2/10

Left: 2205.365 $\pm$ 0.370  $\chi^2$ /NDF: 533027.7/22

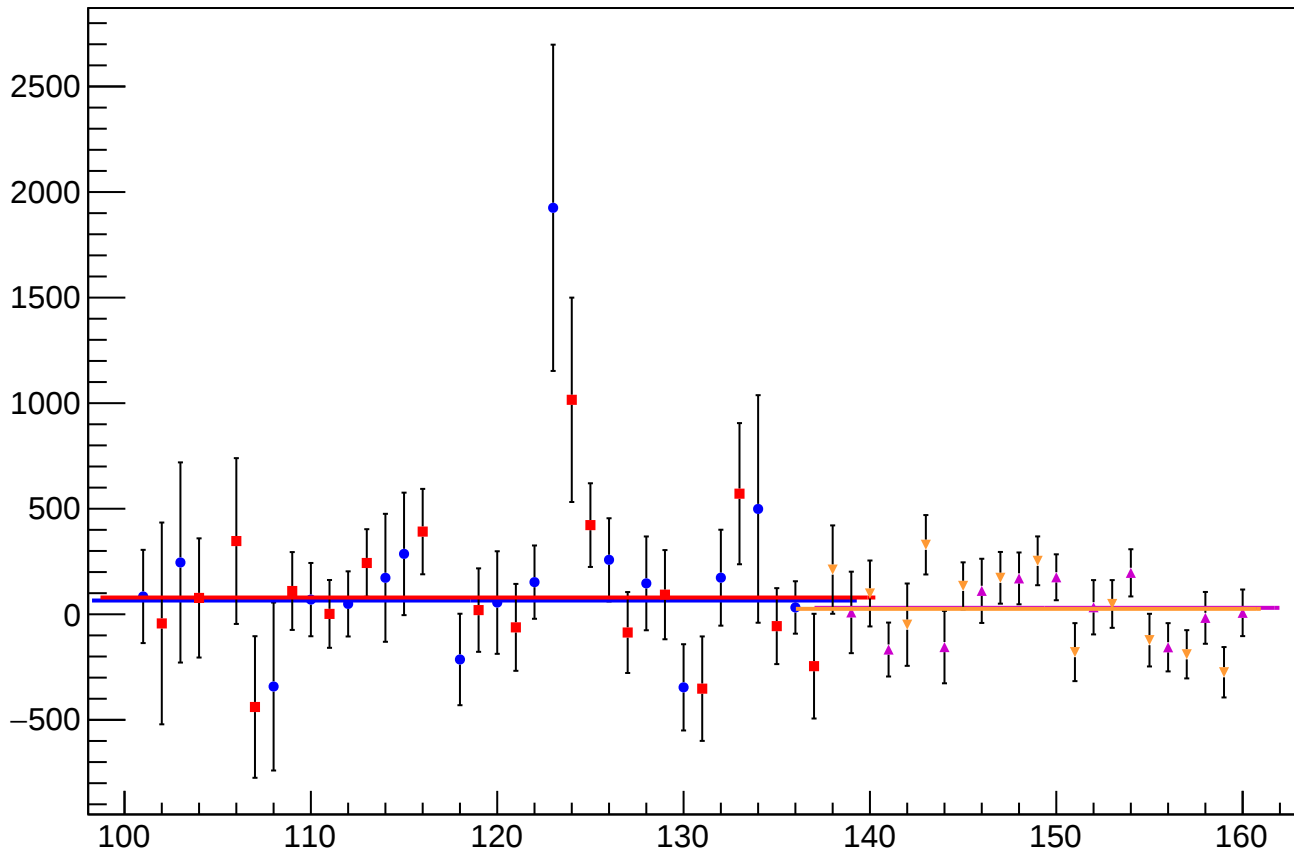
Right: 3714.186 $\pm$ 0.738  $\chi^2$ /NDF: 2098786.6/34

In: 2499.758 $\pm$ 0.467  $\chi^2$ /NDF:2696707.3/27

Out: 2516.702 $\pm$ 0.468  $\chi^2$ /NDF:3276036.1/29

All: 2508.197 $\pm$ 0.331  $\chi^2$ /NDF: 5973400.2/57

# dit\_asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 65.225 $\pm$ 52.700  $\chi^2/\text{NDF}$ : 15.7/16

Left Out: 25.828 $\pm$ 37.662  $\chi^2/\text{NDF}$ : 25.6/11

Right Out: 79.473 $\pm$ 52.344  $\chi^2/\text{NDF}$ : 22.2/17

Left In: 30.585 $\pm$ 38.297  $\chi^2/\text{NDF}$ : 12.0/10

Left: 28.167 $\pm$ 26.853  $\chi^2/\text{NDF}$ : 37.6/22

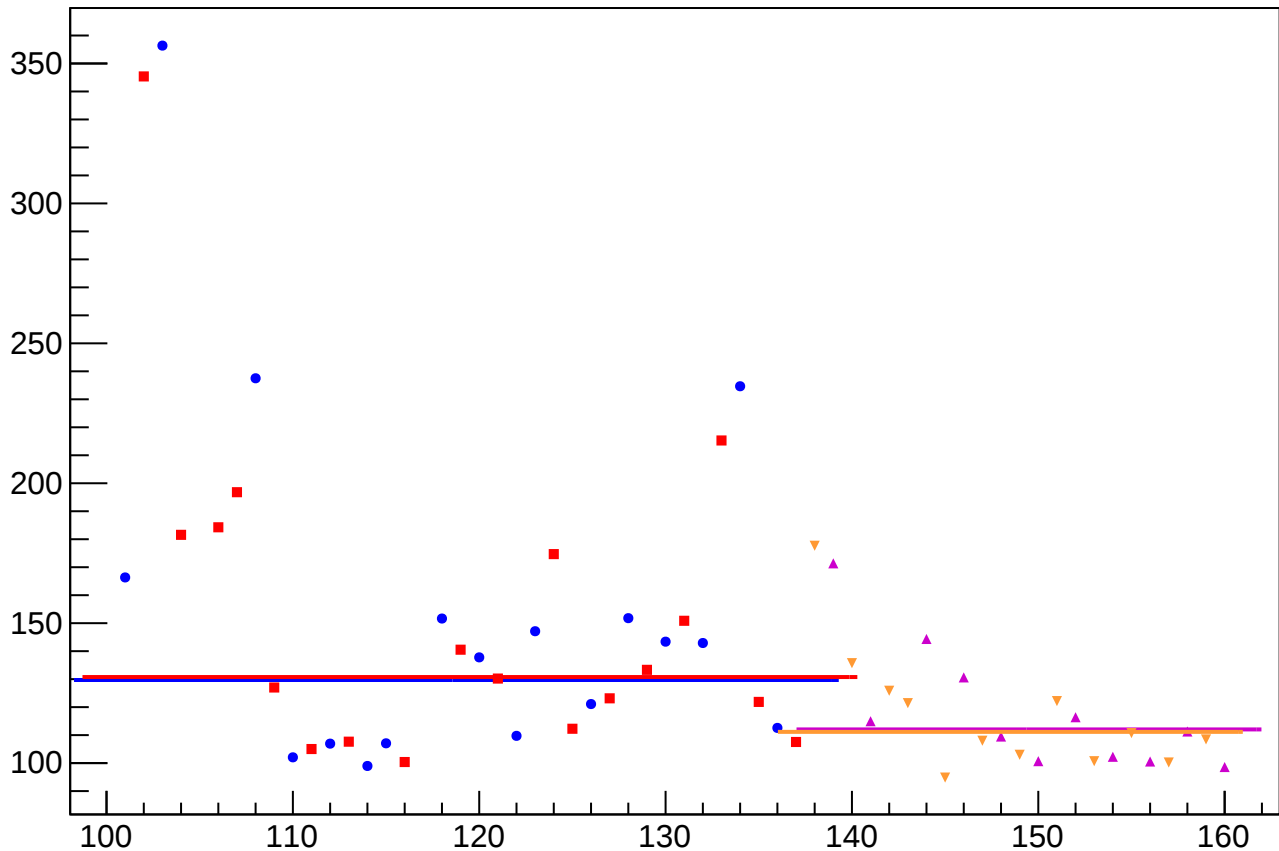
Right: 72.397 $\pm$ 37.138  $\chi^2/\text{NDF}$ : 37.9/34

In: 42.556 $\pm$ 30.981  $\chi^2/\text{NDF}$ : 28.0/27

Out: 44.126 $\pm$ 30.571  $\chi^2/\text{NDF}$ : 48.5/29

All: 43.352 $\pm$ 21.760  $\chi^2/\text{NDF}$ : 76.5/57

# dit\_asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 129.697 $\pm$ 0.037  $\chi^2$ /NDF: 989682.4/16

Left Out: 111.163 $\pm$ 0.027  $\chi^2$ /NDF: 377175.0/11

Right Out: 130.751 $\pm$ 0.037  $\chi^2$ /NDF: 927534.3/17

Left In: 112.034 $\pm$ 0.027  $\chi^2$ /NDF: 381132.8/10

Left: 111.591 $\pm$ 0.019  $\chi^2$ /NDF: 758833.4/22

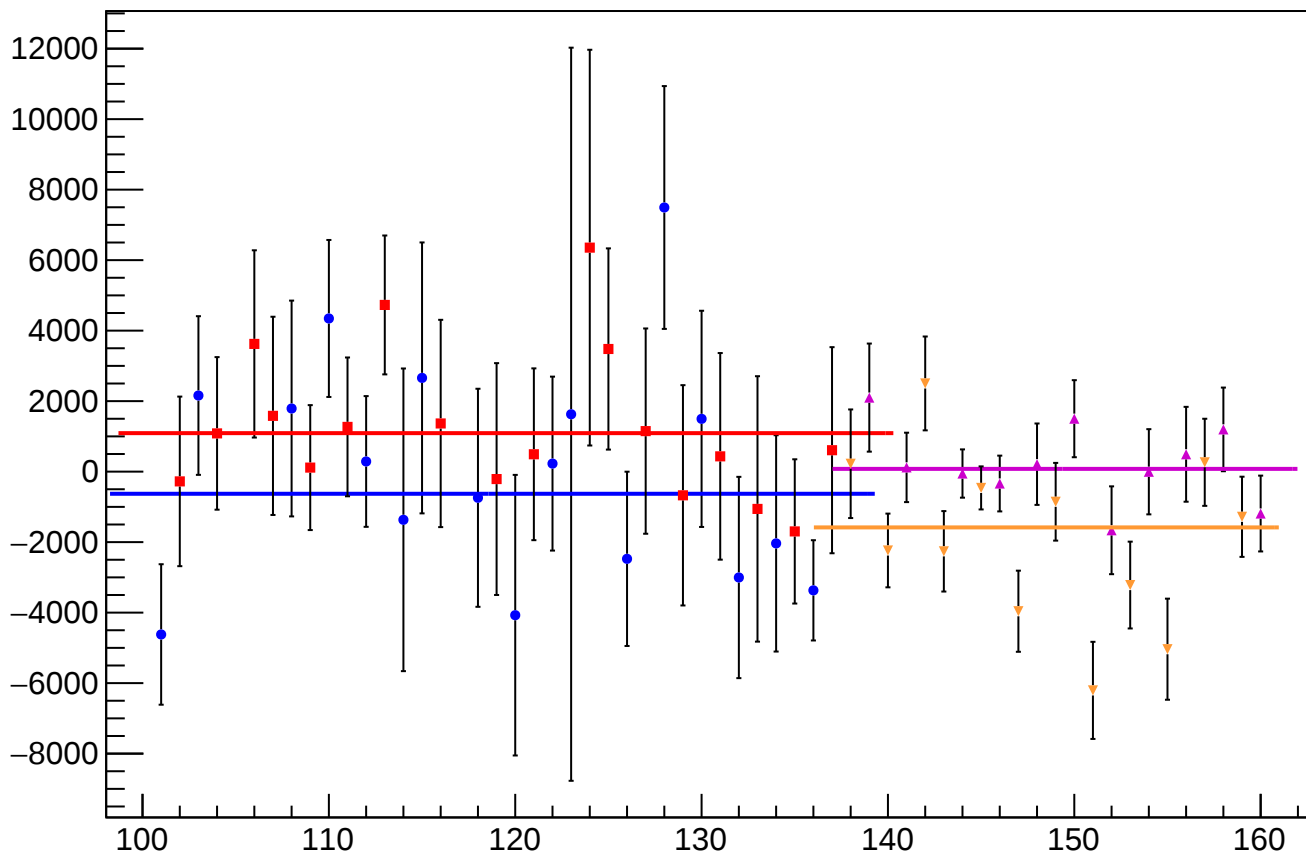
Right: 130.228 $\pm$ 0.026  $\chi^2$ /NDF: 1917619.9/34

In: 118.138 $\pm$ 0.022  $\chi^2$ /NDF: 1517834.8/27

Out: 117.845 $\pm$ 0.022  $\chi^2$ /NDF: 1489257.5/29

All: 117.989 $\pm$ 0.015  $\chi^2$ /NDF: 3007183.0/57

asym\_sam3\_correction\_mean vs Slug, Sign Corrected



Right In:  $-628.175 \pm 621.486$   $\chi^2/\text{NDF}: 24.3/16$

Left Out:  $-1582.434 \pm 315.808$   $\chi^2/\text{NDF}: 40.7/11$

Right Out:  $1091.945 \pm 599.483$   $\chi^2/\text{NDF}: 9.4/17$

Left In:  $78.083 \pm 312.669$   $\chi^2/\text{NDF}: 8.1/10$

Left:  $-743.882 \pm 222.192$   $\chi^2/\text{NDF}: 62.8/22$

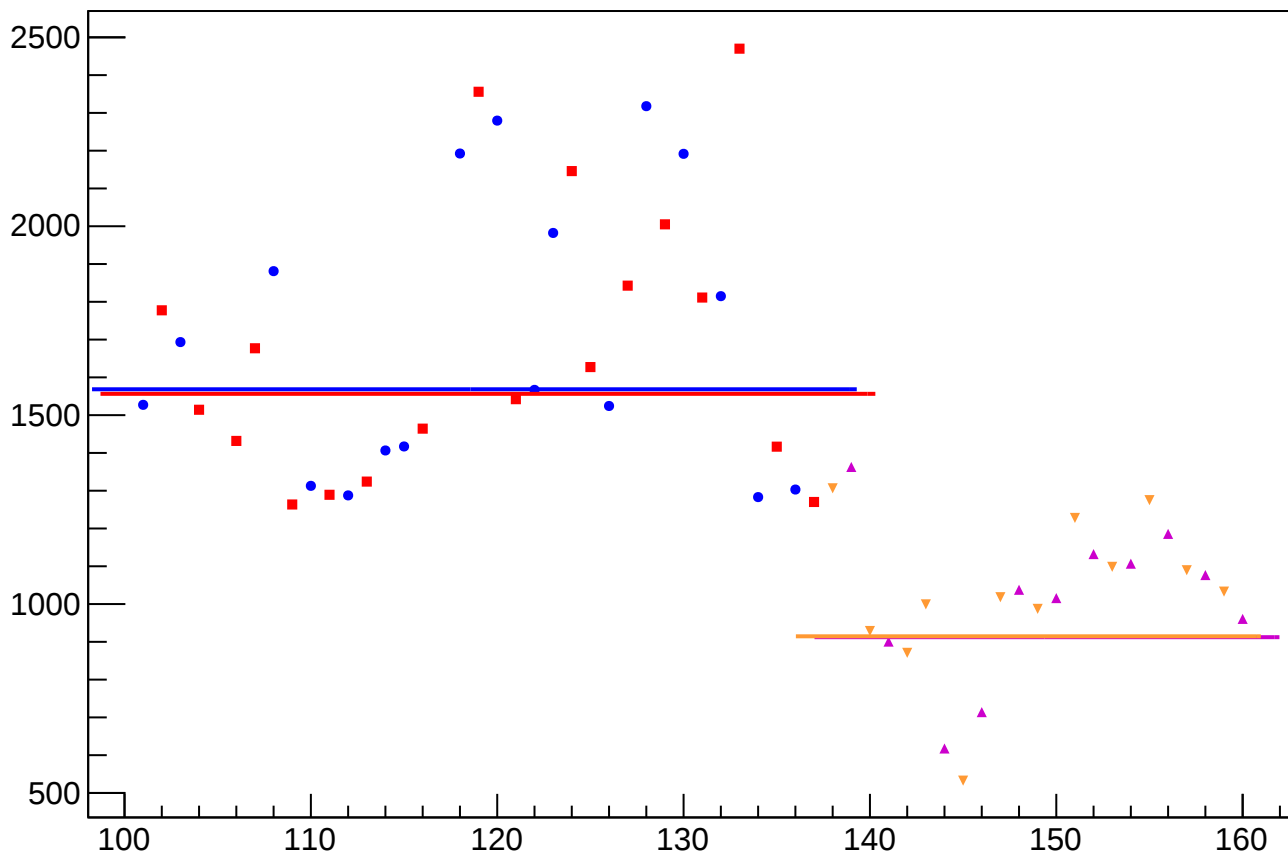
Right:  $262.874 \pm 431.468$   $\chi^2/\text{NDF}: 37.6/34$

In:  $-64.570 \pm 279.312$   $\chi^2/\text{NDF}: 33.4/27$

Out:  $-1001.472 \pm 279.408$   $\chi^2/\text{NDF}: 65.7/29$

All:  $-532.860 \pm 197.537$   $\chi^2/\text{NDF}: 104.7/57$

asym\_sam3\_correction\_rms vs Slug, Sign Corrected



Right In: 1568.480 $\pm$ 0.439  $\chi^2$ /NDF: 534197.6/16

Left Out: 914.620 $\pm$ 0.223  $\chi^2$ /NDF:1285962.6/11

Right Out: 1556.423 $\pm$ 0.424  $\chi^2$ /NDF: 510453.6/17

Left In: 912.317 $\pm$ 0.221  $\chi^2$ /NDF:949545.1/10

Left: 913.457 $\pm$ 0.157  $\chi^2$ /NDF: 2235561.4/22

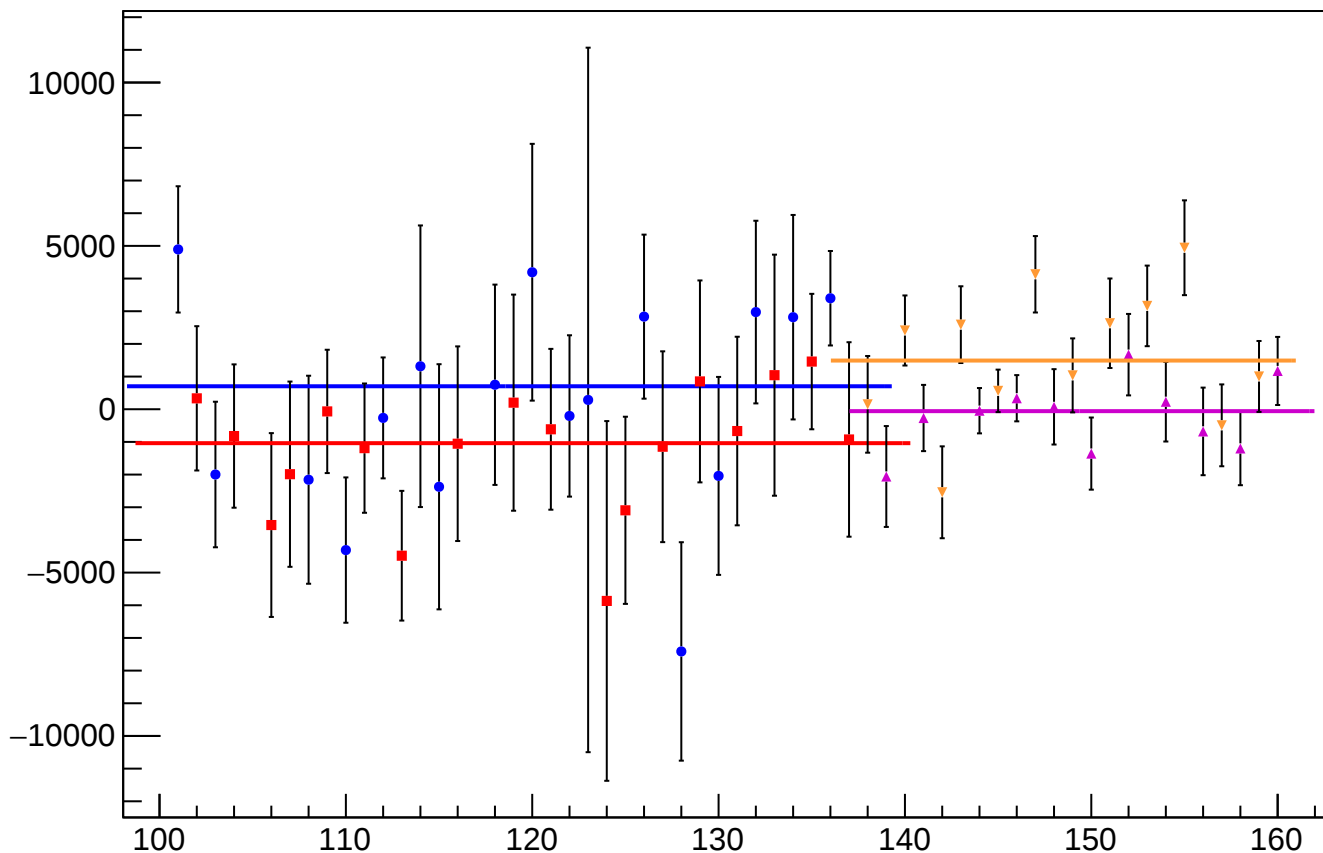
Right: 1562.235 $\pm$ 0.305  $\chi^2$ /NDF: 1045041.2/34

In: 1044.851 $\pm$ 0.198  $\chi^2$ /NDF:3262851.1/27

Out: 1054.040 $\pm$ 0.198  $\chi^2$ /NDF:3590794.1/29

All: 1049.444 $\pm$ 0.140  $\chi^2$ /NDF: 6854727.2/57

# asym\_sam3\_mean vs Slug, Sign Corrected



Right In: 703.057+/-620.618  $\chi^2/\text{NDF}$ : 26.0/16

Left Out: 1490.118+/-323.013  $\chi^2/\text{NDF}$ :28.9/11

Right Out: -1038.423+/-604.250  $\chi^2/\text{NDF}$ : 8.2/17

Left In: -58.395+/-306.780  $\chi^2/\text{NDF}$ :8.0/10

Left: 675.975+/-222.443  $\chi^2/\text{NDF}$ : 49.0/22

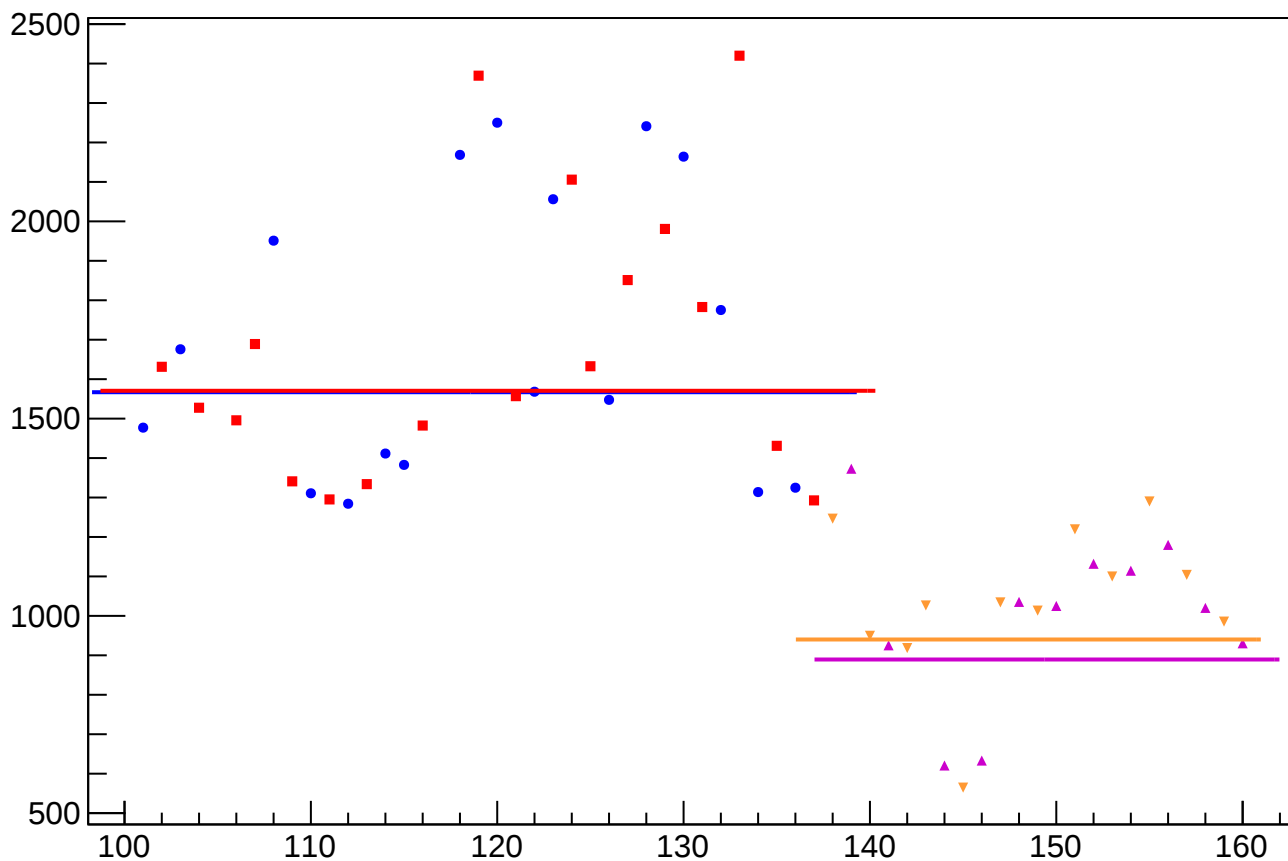
Right: -190.951+/-432.940  $\chi^2/\text{NDF}$ : 38.2/34

In: 91.127+/-275.015  $\chi^2/\text{NDF}$ :35.2/27

Out: 928.146+/-284.865  $\chi^2/\text{NDF}$ :50.7/29

All: 494.915+/-197.855  $\chi^2/\text{NDF}$ : 90.4/57

# asym\_sam3\_rms vs Slug, Sign Corrected



Right In: 1566.937 $\pm$ 0.439  $\chi^2/\text{NDF}$ : 499846.2/16

Left Out: 940.125 $\pm$ 0.228  $\chi^2/\text{NDF}$ : 1056067.1/11

Right Out: 1570.549 $\pm$ 0.427  $\chi^2/\text{NDF}$ : 439261.0/17

Left In: 889.405 $\pm$ 0.217  $\chi^2/\text{NDF}$ : 1091462.5/10

Left: 913.459 $\pm$ 0.157  $\chi^2/\text{NDF}$ : 2173455.5/22

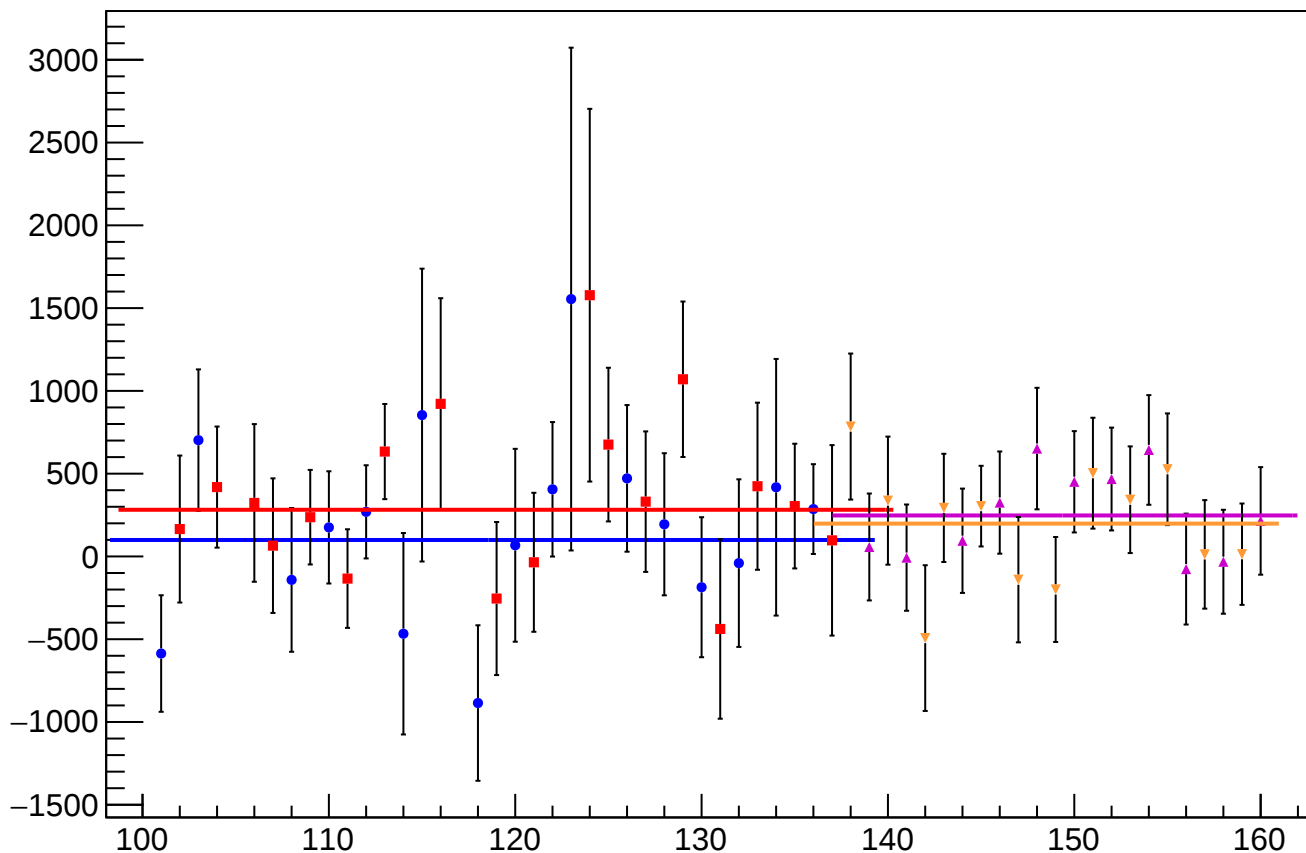
Right: 1568.791 $\pm$ 0.306  $\chi^2/\text{NDF}$ : 939142.0/34

In: 1022.448 $\pm$ 0.194  $\chi^2/\text{NDF}$ : 3506880.2/27

Out: 1080.238 $\pm$ 0.201  $\chi^2/\text{NDF}$ : 3188498.8/29

All: 1050.327 $\pm$ 0.140  $\chi^2/\text{NDF}$ : 6737981.3/57

# dit\_asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 99.387 $\pm$ 103.463  $\chi^2$ /NDF: 15.9/16

Left Out: 198.356 $\pm$ 96.474  $\chi^2$ /NDF: 9.7/11

Right Out: 281.830 $\pm$ 97.880  $\chi^2$ /NDF: 13.7/17

Left In: 247.561 $\pm$ 97.128  $\chi^2$ /NDF: 6.6/10

Left: 222.793 $\pm$ 68.448  $\chi^2$ /NDF: 16.4/22

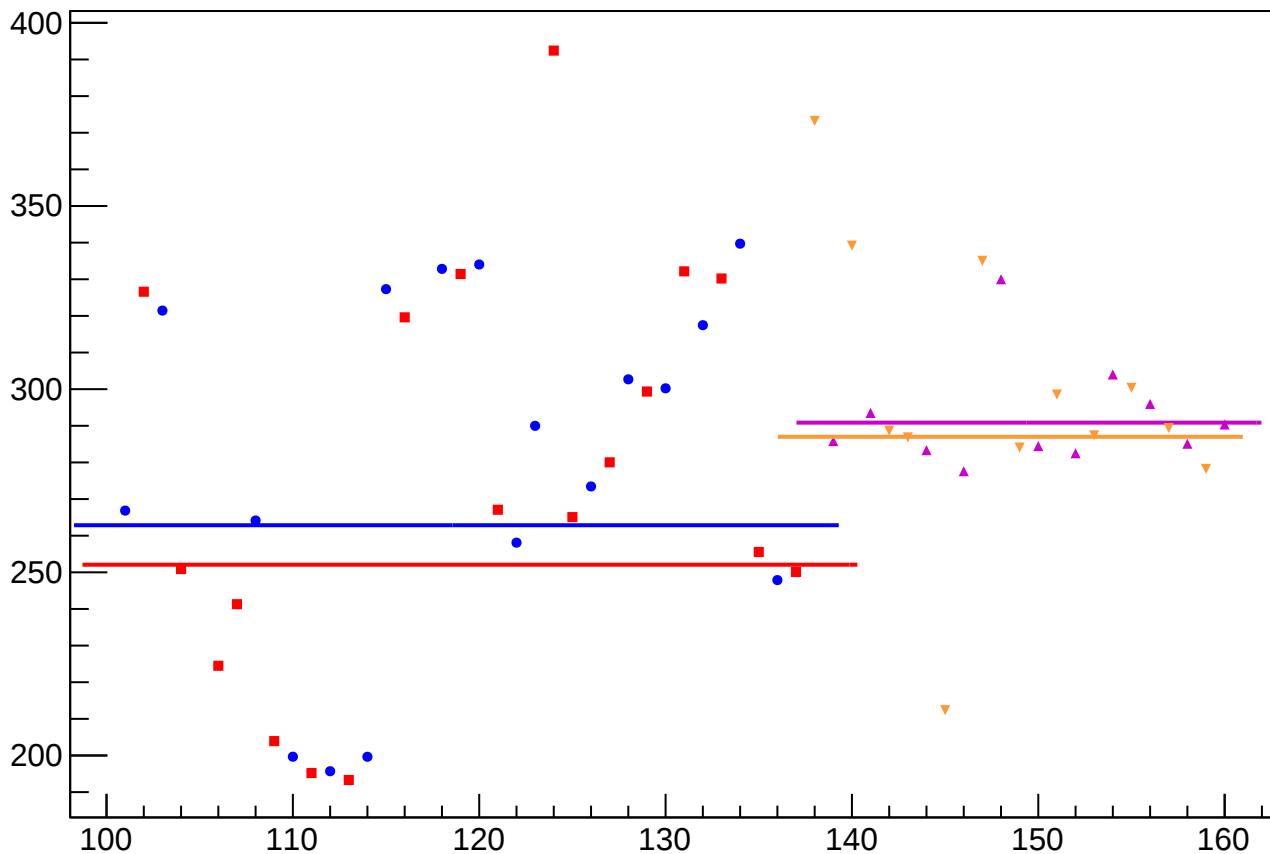
Right: 195.664 $\pm$ 71.104  $\chi^2$ /NDF: 31.3/34

In: 178.150 $\pm$ 70.814  $\chi^2$ /NDF: 23.6/27

Out: 239.489 $\pm$ 68.709  $\chi^2$ /NDF: 23.8/29

All: 209.744 $\pm$ 49.312  $\chi^2$ /NDF: 47.8/57

# dit\_asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 262.856 $\pm$ 0.073  $\chi^2$ /NDF: 411698.3/16

Left Out: 287.000 $\pm$ 0.068  $\chi^2$ /NDF: 340188.5/11

Right Out: 252.079 $\pm$ 0.069  $\chi^2$ /NDF: 515150.4/17

Left In: 290.866 $\pm$ 0.069  $\chi^2$ /NDF: 34822.7/10

Left: 288.920 $\pm$ 0.048  $\chi^2$ /NDF: 376606.9/22

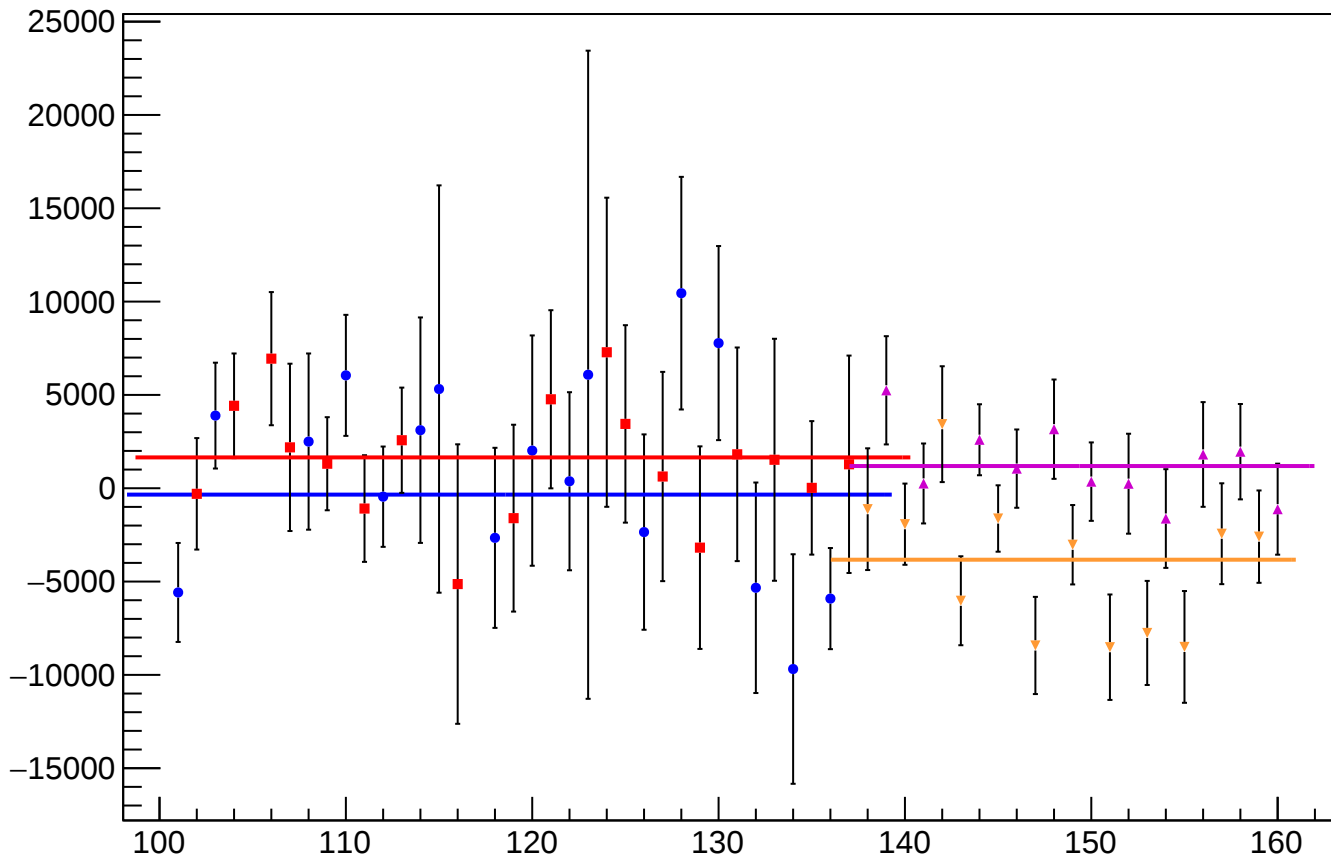
Right: 257.169 $\pm$ 0.050  $\chi^2$ /NDF: 938300.0/34

In: 277.745 $\pm$ 0.050  $\chi^2$ /NDF: 524437.3/27

Out: 269.792 $\pm$ 0.049  $\chi^2$ /NDF: 984461.2/29

All: 273.649 $\pm$ 0.035  $\chi^2$ /NDF: 1521892.7/57

asym\_sam4\_correction\_mean vs Slug, Sign Corrected



Right In:  $-341.538 \pm 1004.635$   $\chi^2/\text{NDF}$ : 24.4/16

Left Out:  $-3829.215 \pm 718.771$   $\chi^2/\text{NDF}$ : 20.3/11

Right Out:  $1651.954 \pm 929.858$   $\chi^2/\text{NDF}$ : 7.9/17

Left In:  $1189.379 \pm 718.063$   $\chi^2/\text{NDF}$ : 5.7/10

Left:  $-1317.444 \pm 507.998$   $\chi^2/\text{NDF}$ : 50.4/22

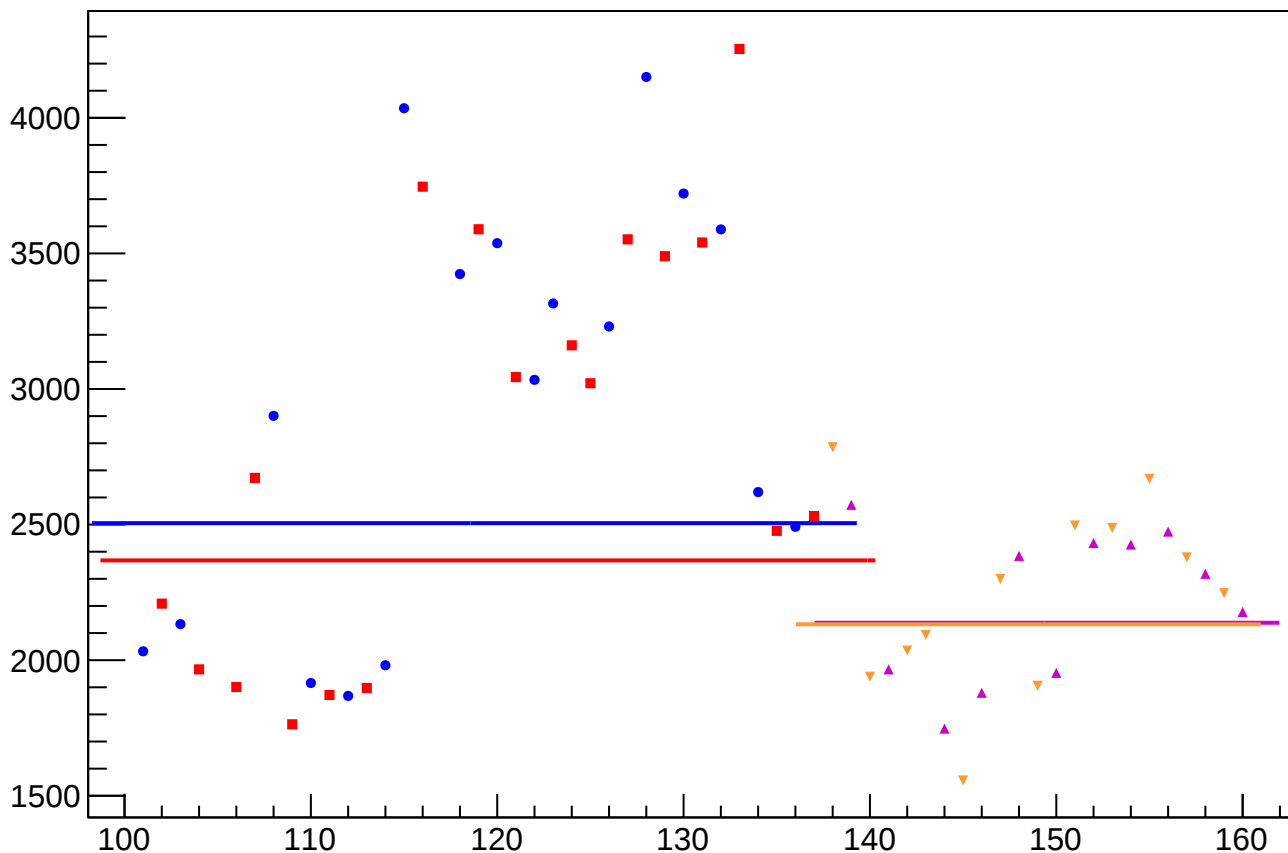
Right:  $732.150 \pm 682.415$   $\chi^2/\text{NDF}$ : 34.5/34

In:  $671.732 \pm 584.184$   $\chi^2/\text{NDF}$ : 31.7/27

Out:  $-1779.106 \pm 568.681$   $\chi^2/\text{NDF}$ : 50.0/29

All:  $-586.638 \pm 407.488$   $\chi^2/\text{NDF}$ : 90.7/57

asym\_sam4\_correction\_rms vs Slug, Sign Corrected



Right In: 2505.329+/-0.710  $\chi^2/\text{NDF}$ : 864133.9/16

Left Out: 2132.323+/-0.508  $\chi^2/\text{NDF}$ : 490091.8/11

Right Out: 2368.003+/-0.658  $\chi^2/\text{NDF}$ : 1030879.9/17

Left In: 2138.040+/-0.508  $\chi^2/\text{NDF}$ : 292226.3/10

Left: 2135.184+/-0.359  $\chi^2/\text{NDF}$ : 782381.4/22

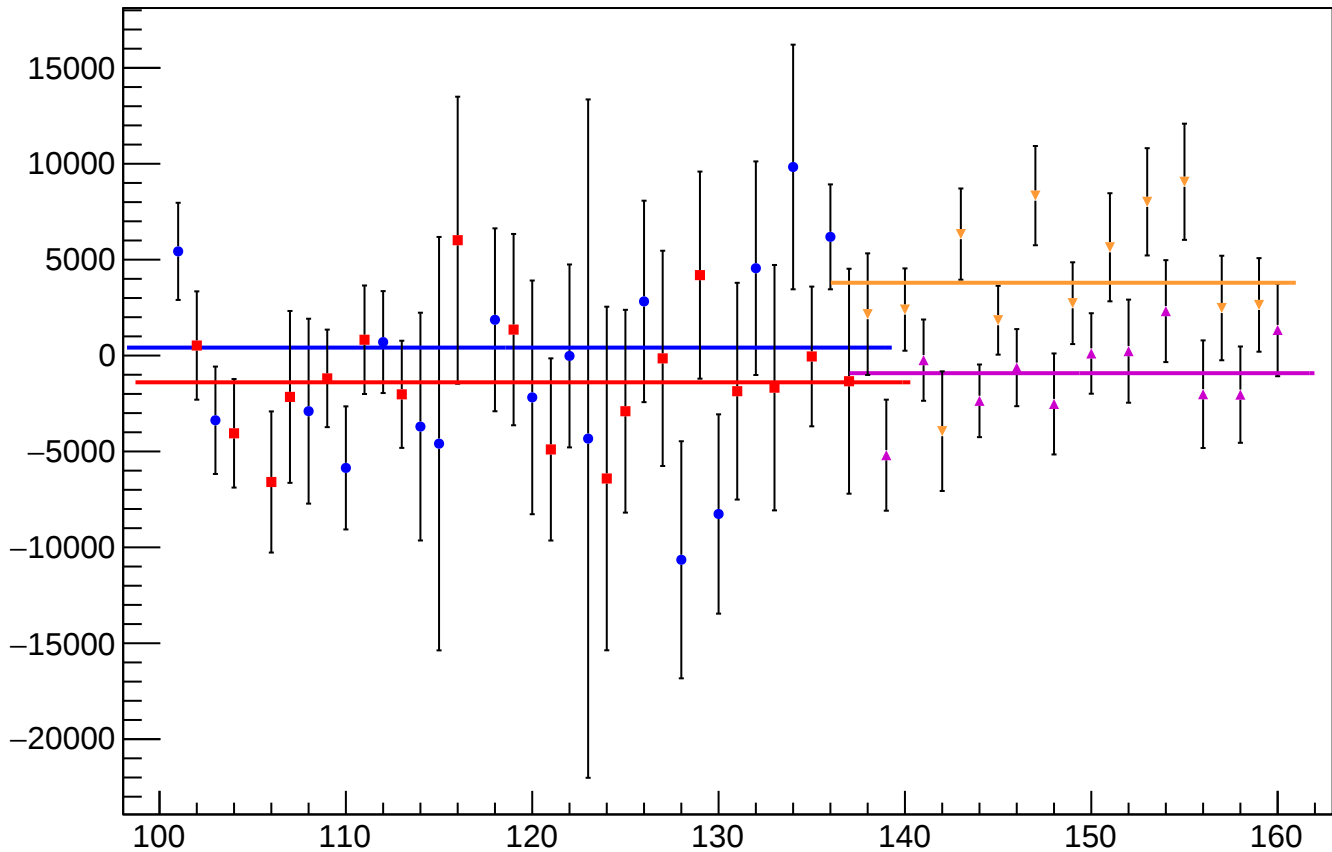
Right: 2431.366+/-0.483  $\chi^2/\text{NDF}$ : 1915141.0/34

In: 2262.231+/-0.413  $\chi^2/\text{NDF}$ : 1333290.9/27

Out: 2220.474+/-0.402  $\chi^2/\text{NDF}$ : 1601397.7/29

All: 2240.791+/-0.288  $\chi^2/\text{NDF}$ : 2939935.3/57

# asym\_sam4\_mean vs Slug, Sign Corrected



Right In: 415.549 $\pm$ 994.913  $\chi^2$ /NDF: 24.5/16

Left Out: 3795.852 $\pm$ 717.733  $\chi^2$ /NDF:18.7/11

Right Out: -1394.660 $\pm$ 928.996  $\chi^2$ /NDF: 7.5/17

Left In: -918.483 $\pm$ 711.139  $\chi^2$ /NDF:6.4/10

Left: 1416.928 $\pm$ 505.166  $\chi^2$ /NDF: 46.8/22

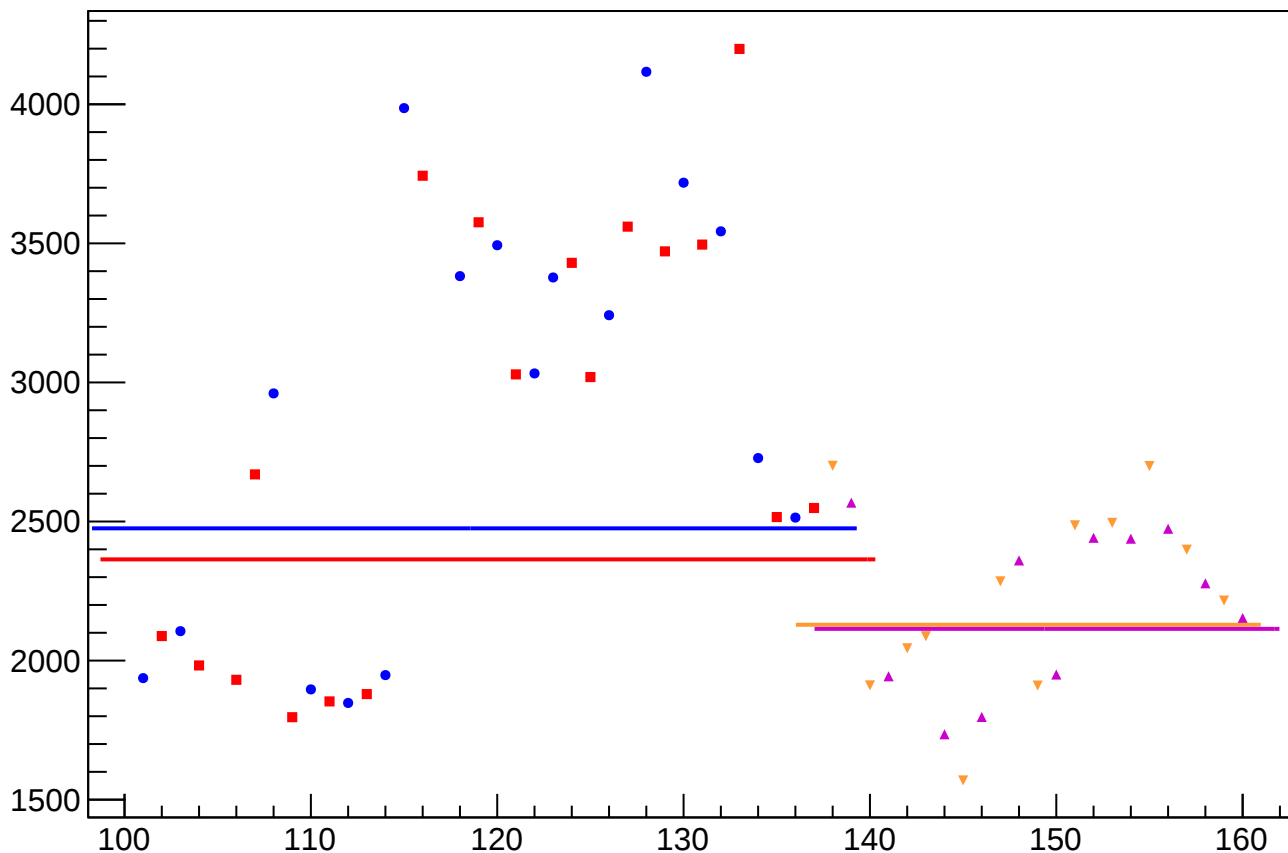
Right: -551.504 $\pm$ 679.008  $\chi^2$ /NDF: 33.8/34

In: -467.388 $\pm$ 578.544  $\chi^2$ /NDF:32.1/27

Out: 1855.717 $\pm$ 567.969  $\chi^2$ /NDF:45.8/29

All: 715.589 $\pm$ 405.302  $\chi^2$ /NDF: 86.1/57

# asym\_sam4\_rms vs Slug, Sign Corrected



Right In: 2475.435 $\pm$ 0.704  $\chi^2/\text{NDF}$ : 913073.5/16

Left Out: 2128.875 $\pm$ 0.508  $\chi^2/\text{NDF}$ : 470000.9/11

Right Out: 2363.907 $\pm$ 0.657  $\chi^2/\text{NDF}$ : 1026875.6/17

Left In: 2114.061 $\pm$ 0.503  $\chi^2/\text{NDF}$ : 322925.5/10

Left: 2121.399 $\pm$ 0.357  $\chi^2/\text{NDF}$ : 793356.4/22

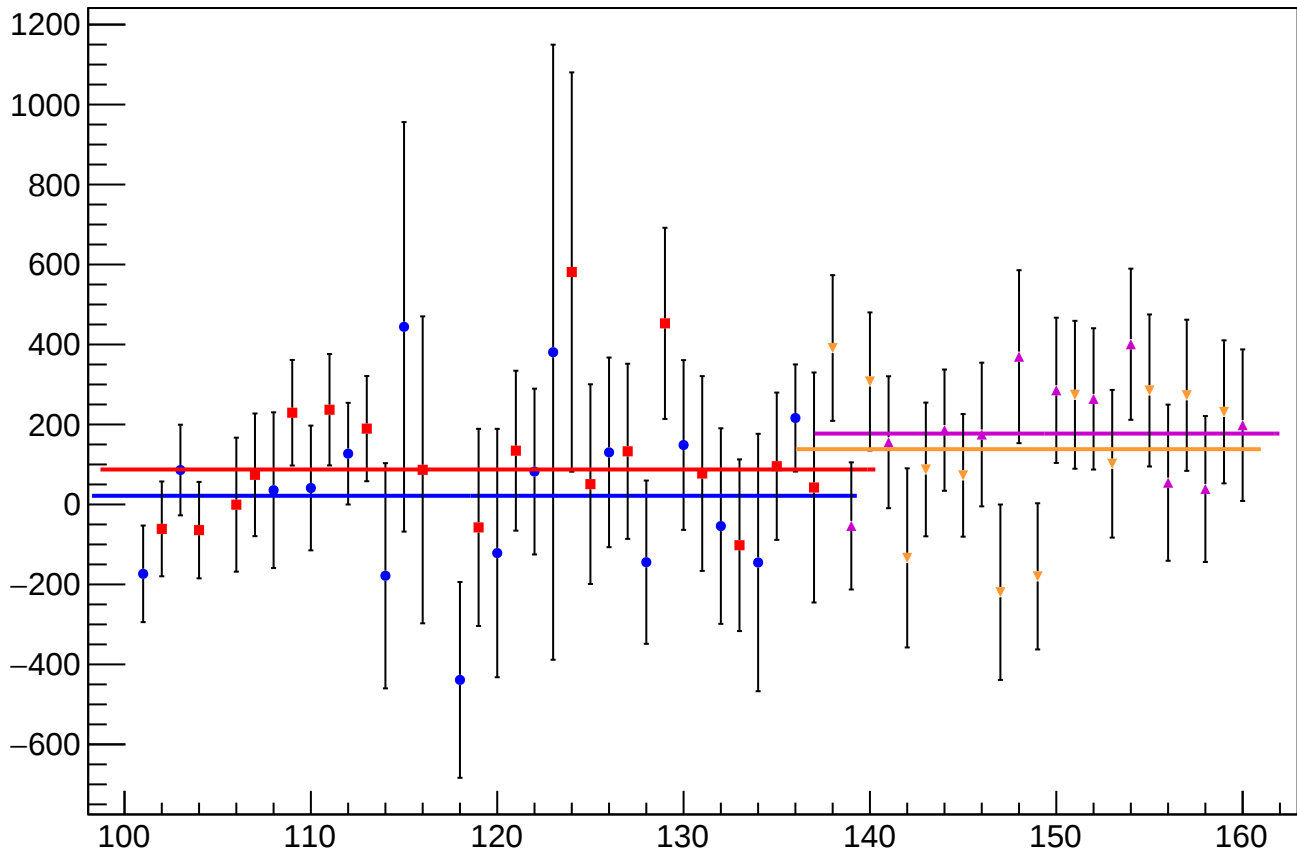
Right: 2415.854 $\pm$ 0.480  $\chi^2/\text{NDF}$ : 1953375.1/34

In: 2236.257 $\pm$ 0.409  $\chi^2/\text{NDF}$ : 1410636.2/27

Out: 2216.726 $\pm$ 0.402  $\chi^2/\text{NDF}$ : 1577040.9/29

All: 2226.312 $\pm$ 0.287  $\chi^2/\text{NDF}$ : 2988837.8/57

# dit\_asym\_sam5\_mean vs Slug, Sign Corrected



Right In: 21.649 $\pm$ 45.157  $\chi^2/\text{NDF}$ : 12.6/16

Left Out: 138.228 $\pm$ 52.838  $\chi^2/\text{NDF}$ : 12.3/11

Right Out: 87.439 $\pm$ 41.826  $\chi^2/\text{NDF}$ : 10.9/17

Left In: 177.211 $\pm$ 53.706  $\chi^2/\text{NDF}$ : 5.9/10

Left: 157.402 $\pm$ 37.665  $\chi^2/\text{NDF}$ : 18.5/22

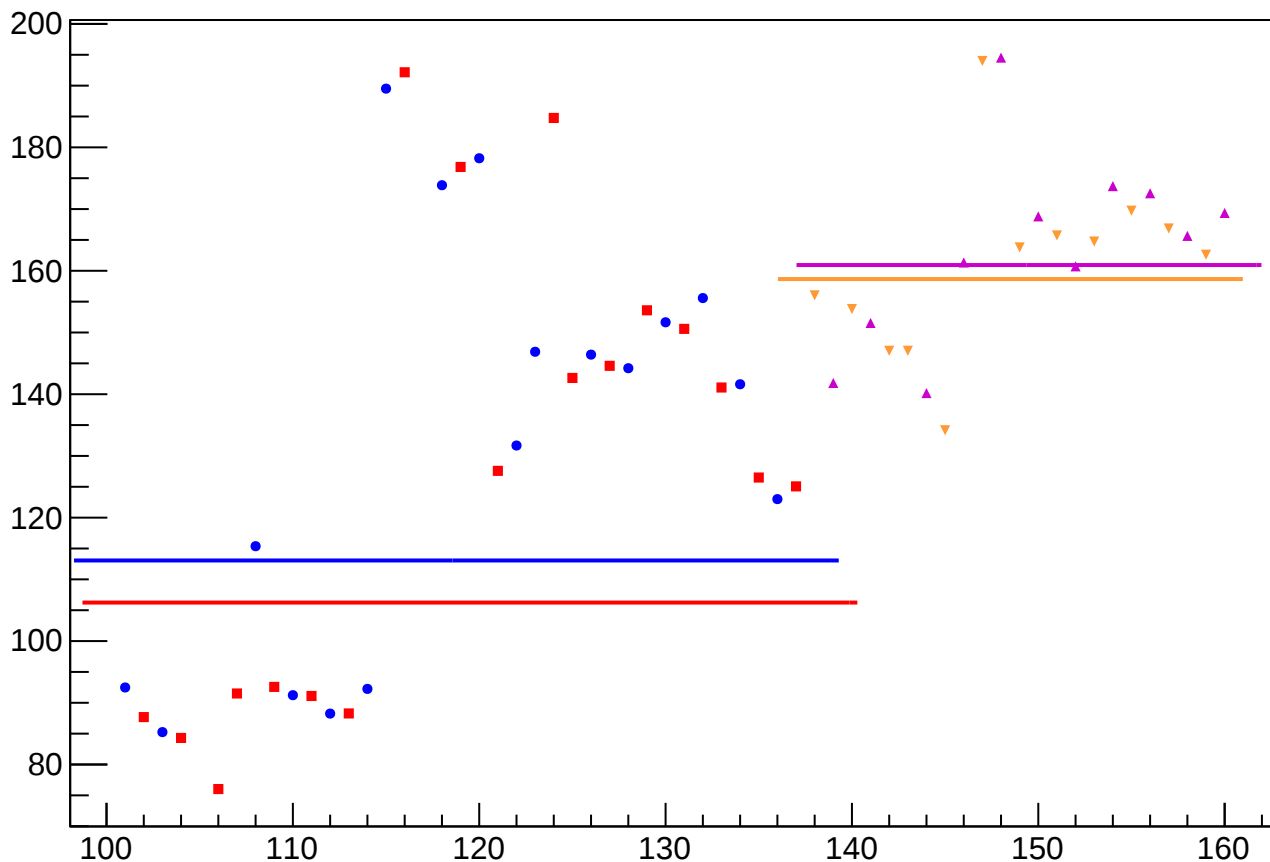
Right: 57.059 $\pm$ 30.686  $\chi^2/\text{NDF}$ : 24.7/34

In: 86.077 $\pm$ 34.563  $\chi^2/\text{NDF}$ : 23.4/27

Out: 107.004 $\pm$ 32.795  $\chi^2/\text{NDF}$ : 23.8/29

All: 97.090 $\pm$ 23.790  $\chi^2/\text{NDF}$ : 47.4/57

# dit\_asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 113.059+/-0.032  $\chi^2/\text{NDF}$ : 820795.9/16

Left Out: 158.659+/-0.037  $\chi^2/\text{NDF}$ :138280.4/11

Right Out: 106.240+/-0.030  $\chi^2/\text{NDF}$ : 951702.9/17

Left In: 160.932+/-0.038  $\chi^2/\text{NDF}$ :146461.1/10

Left: 159.777+/-0.027  $\chi^2/\text{NDF}$ : 286561.0/22

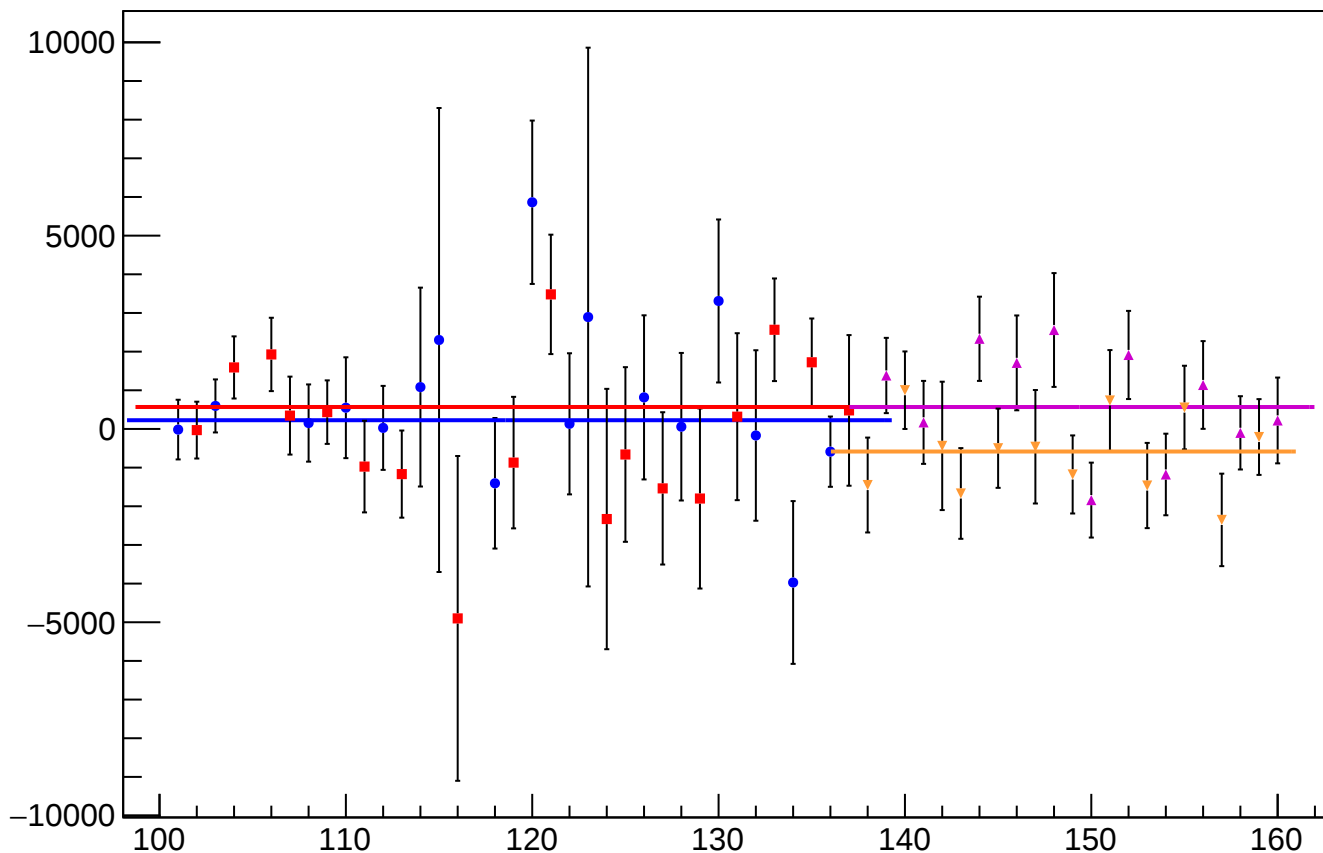
Right: 109.389+/-0.022  $\chi^2/\text{NDF}$ : 1797042.6/34

In: 132.886+/-0.024  $\chi^2/\text{NDF}$ :1898236.8/27

Out: 126.434+/-0.023  $\chi^2/\text{NDF}$ :2300110.3/29

All: 129.491+/-0.017  $\chi^2/\text{NDF}$ : 4235027.7/57

asym\_sam5\_correction\_mean vs Slug, Sign Corrected



Right In: 225.635+/-321.412  $\chi^2/\text{NDF}$ : 16.0/16

Left Out: -583.649+/-330.553  $\chi^2/\text{NDF}$ : 9.3/11

Right Out: 568.109+/-290.500  $\chi^2/\text{NDF}$ : 21.0/17

Left In: 567.386+/-327.424  $\chi^2/\text{NDF}$ : 17.3/10

Left: -2.658+/-232.622  $\chi^2/\text{NDF}$ : 32.8/22

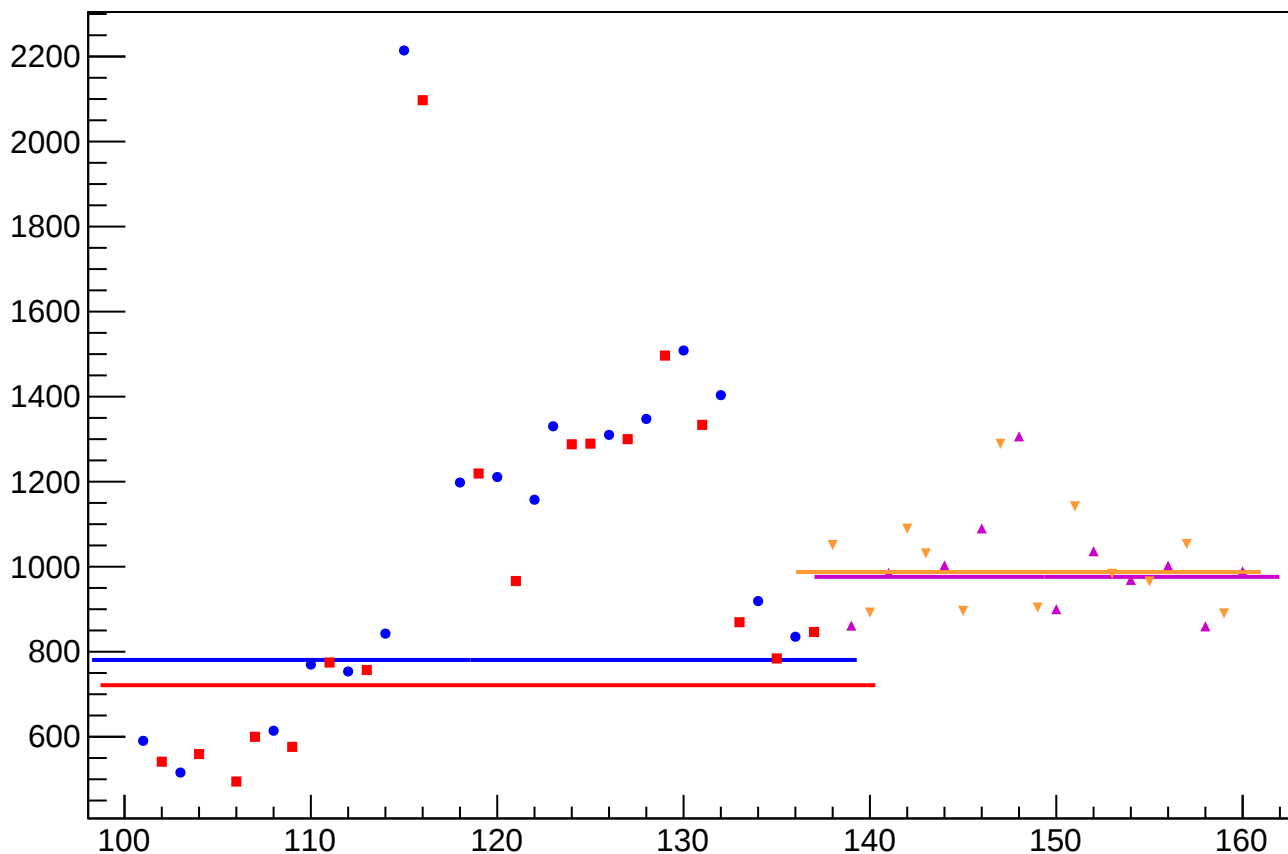
Right: 414.129+/-215.517  $\chi^2/\text{NDF}$ : 37.6/34

In: 393.344+/-229.368  $\chi^2/\text{NDF}$ : 33.8/27

Out: 66.201+/-218.209  $\chi^2/\text{NDF}$ : 37.1/29

All: 221.621+/-158.095  $\chi^2/\text{NDF}$ : 72.0/57

asym\_sam5\_correction\_rms vs Slug, Sign Corrected



Right In: 780.700 $\pm$ 0.227  $\chi^2$ /NDF: 1609510.2/16

Left Out: 987.518 $\pm$ 0.234  $\chi^2$ /NDF:202582.3/11

Right Out: 721.264 $\pm$ 0.205  $\chi^2$ /NDF: 1626627.9/17

Left In: 976.038 $\pm$ 0.232  $\chi^2$ /NDF:196697.9/10

Left: 981.723 $\pm$ 0.164  $\chi^2$ /NDF: 400497.7/22

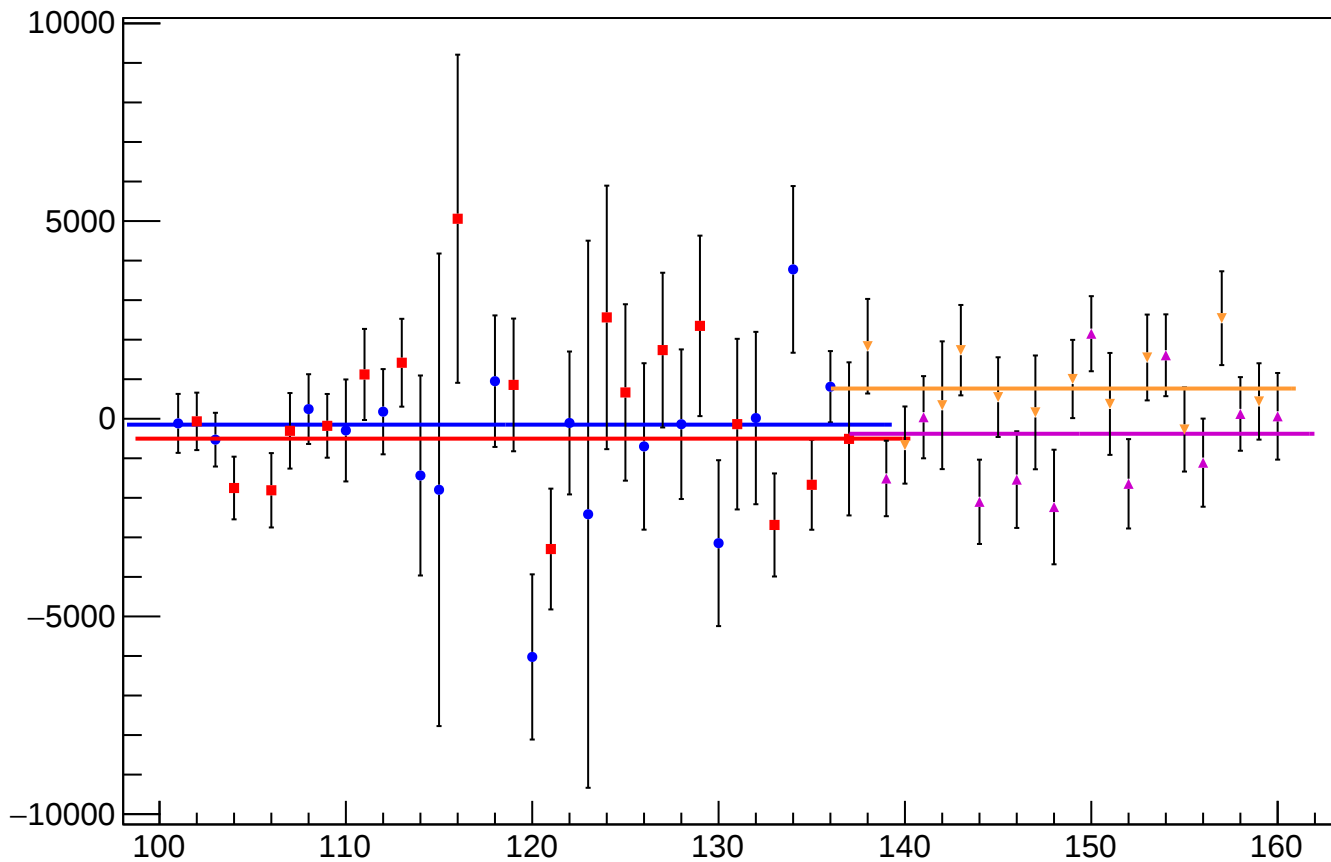
Right: 747.987 $\pm$ 0.152  $\chi^2$ /NDF: 3273780.9/34

In: 876.559 $\pm$ 0.162  $\chi^2$ /NDF:2168724.5/27

Out: 837.291 $\pm$ 0.154  $\chi^2$ /NDF:2561349.8/29

All: 855.947 $\pm$ 0.112  $\chi^2$ /NDF: 4760845.5/57

# asym\_sam5\_mean vs Slug, Sign Corrected



Right In:  $-149.163 \pm 312.963$   $\chi^2/\text{NDF}: 16.1/16$

Left Out:  $764.206 \pm 324.396$   $\chi^2/\text{NDF}: 7.9/11$

Right Out:  $-503.162 \pm 285.781$   $\chi^2/\text{NDF}: 23.6/17$

Left In:  $-379.768 \pm 321.653$   $\chi^2/\text{NDF}: 19.6/10$

Left:  $187.363 \pm 228.407$   $\chi^2/\text{NDF}: 33.8/22$

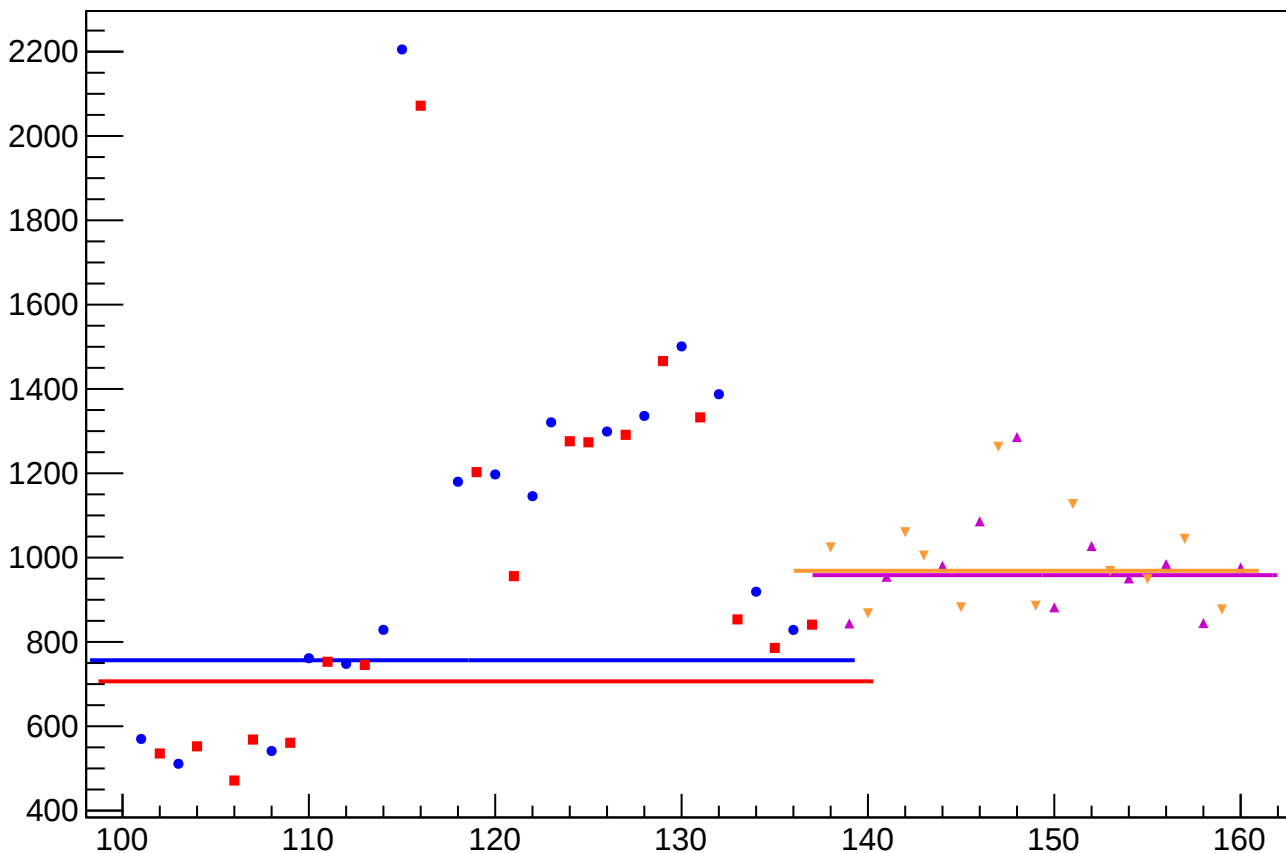
Right:  $-342.200 \pm 211.034$   $\chi^2/\text{NDF}: 40.4/34$

In:  $-261.308 \pm 224.308$   $\chi^2/\text{NDF}: 36.0/27$

Out:  $50.637 \pm 214.437$   $\chi^2/\text{NDF}: 40.2/29$

All:  $-98.321 \pm 155.002$   $\chi^2/\text{NDF}: 77.2/57$

# asym\_sam5\_rms vs Slug, Sign Corrected



Right In: 756.539+/-0.221  $\chi^2/\text{NDF}$ : 1713642.0/16

Left Out: 968.783+/-0.229  $\chi^2/\text{NDF}$ : 203299.7/11

Right Out: 706.550+/-0.202  $\chi^2/\text{NDF}$ : 1670007.9/17

Left In: 958.383+/-0.227  $\chi^2/\text{NDF}$ : 205743.5/10

Left: 963.539+/-0.162  $\chi^2/\text{NDF}$ : 410079.8/22

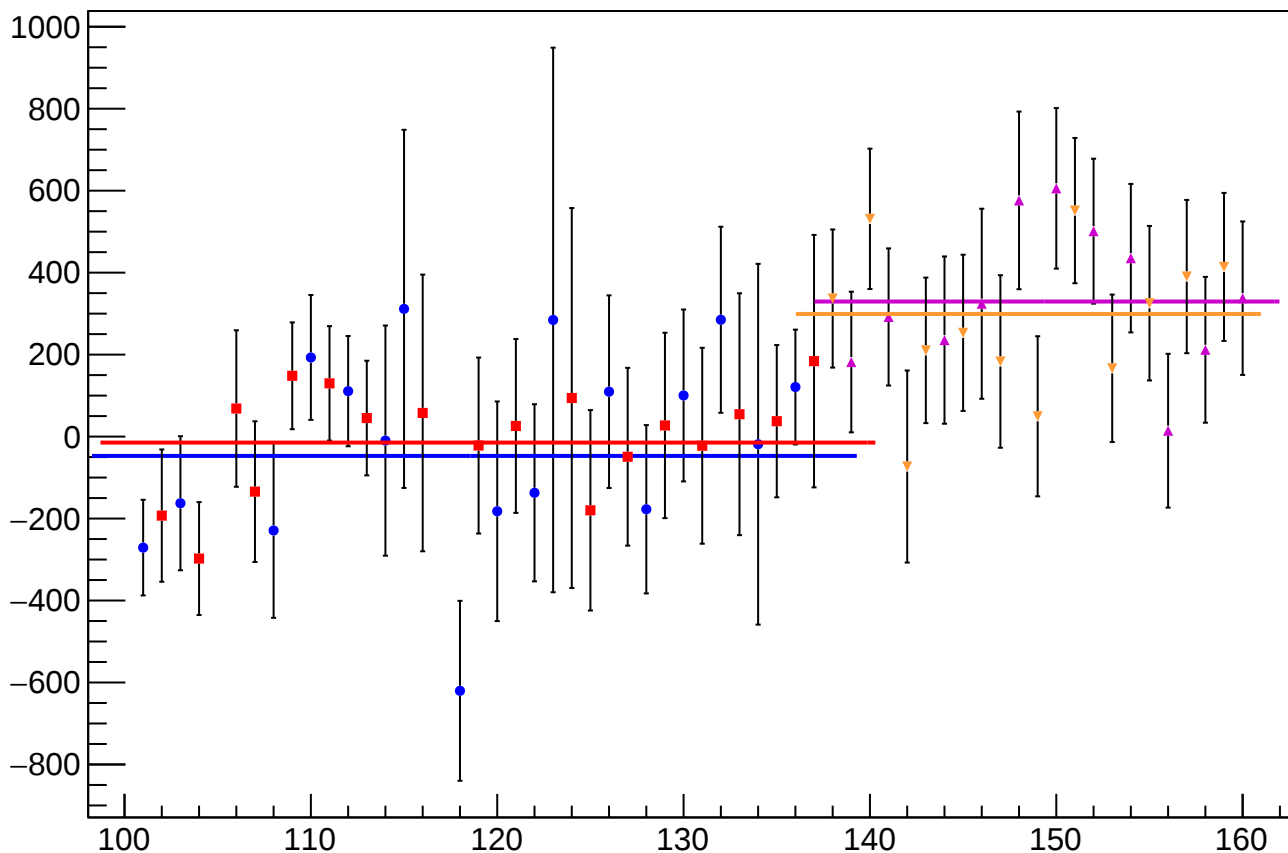
Right: 729.280+/-0.149  $\chi^2/\text{NDF}$ : 3411474.4/34

In: 854.697+/-0.159  $\chi^2/\text{NDF}$ : 2323950.7/27

Out: 821.137+/-0.152  $\chi^2/\text{NDF}$ : 2609153.9/29

All: 837.163+/-0.110  $\chi^2/\text{NDF}$ : 4956496.5/57

# dit\_asym\_sam6\_mean vs Slug, Sign Corrected



Right In:  $-47.157 \pm 47.269$   $\chi^2/\text{NDF}: 21.9/16$

Left Out:  $299.222 \pm 53.781$   $\chi^2/\text{NDF}: 9.9/11$

Right Out:  $-14.620 \pm 44.849$   $\chi^2/\text{NDF}: 10.1/17$

Left In:  $329.532 \pm 56.735$   $\chi^2/\text{NDF}: 8.8/10$

Left:  $313.567 \pm 39.031$   $\chi^2/\text{NDF}: 18.9/22$

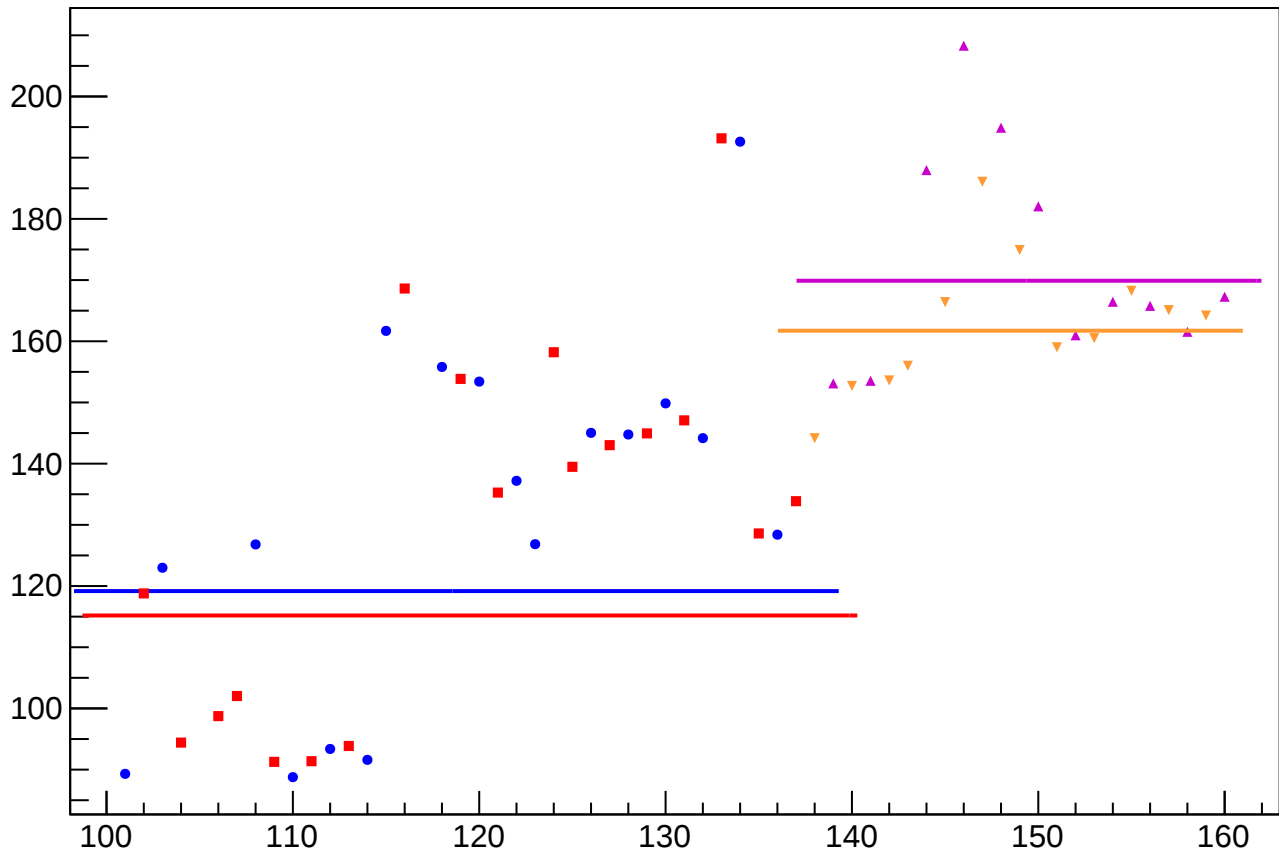
Right:  $-30.035 \pm 32.535$   $\chi^2/\text{NDF}: 32.3/34$

In:  $107.183 \pm 36.316$   $\chi^2/\text{NDF}: 56.7/27$

Out:  $114.112 \pm 34.444$   $\chi^2/\text{NDF}: 40.1/29$

All:  $110.831 \pm 24.991$   $\chi^2/\text{NDF}: 96.9/57$

# dit\_asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 119.175 $\pm$ 0.033  $\chi^2$ /NDF: 615304.2/16

Left Out: 161.727 $\pm$ 0.038  $\chi^2$ /NDF: 72816.5/11

Right Out: 115.188 $\pm$ 0.032  $\chi^2$ /NDF: 675564.7/17

Left In: 169.889 $\pm$ 0.040  $\chi^2$ /NDF: 154666.3/10

Left: 165.590 $\pm$ 0.028  $\chi^2$ /NDF: 249287.8/22

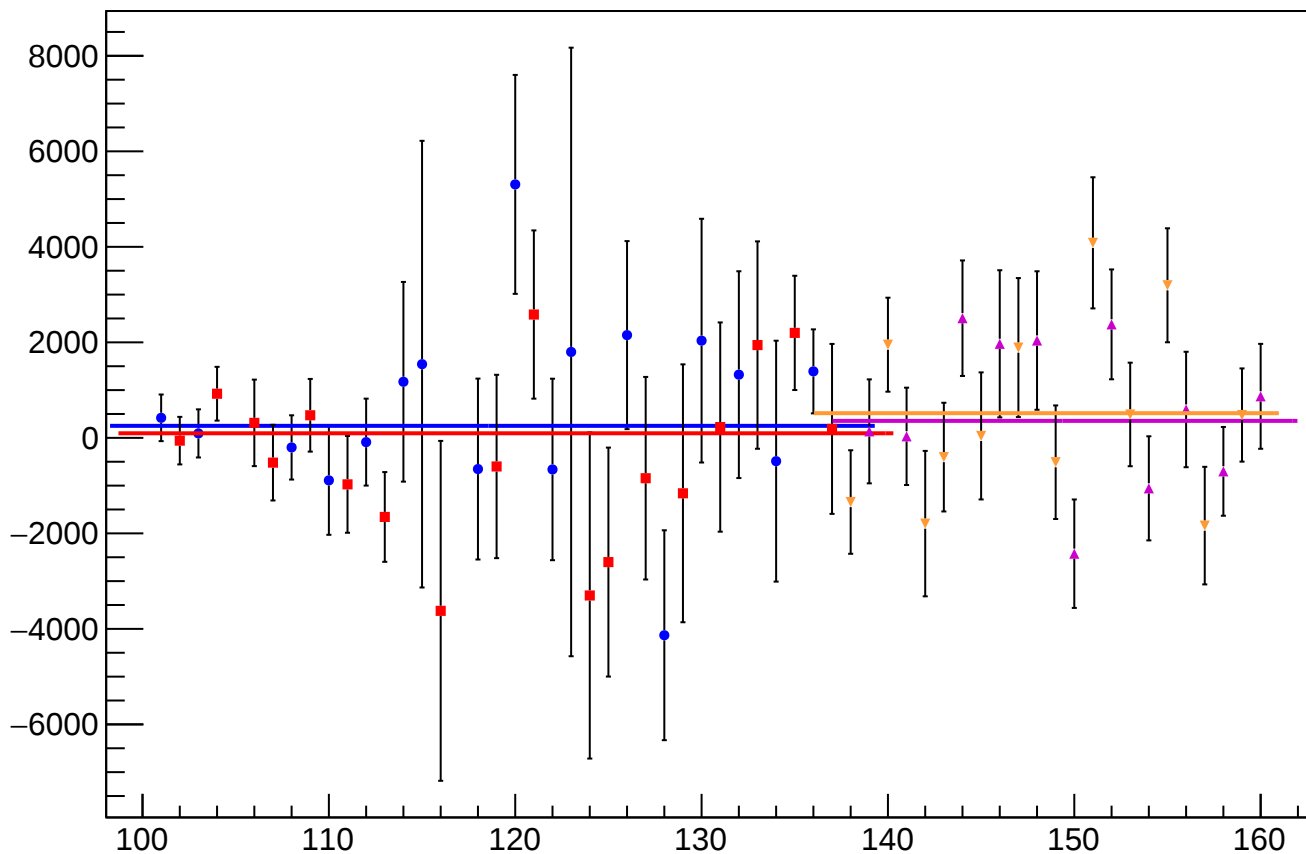
Right: 117.077 $\pm$ 0.023  $\chi^2$ /NDF: 1298359.0/34

In: 139.954 $\pm$ 0.026  $\chi^2$ /NDF: 1713242.2/27

Out: 134.277 $\pm$ 0.024  $\chi^2$ /NDF: 1631731.4/29

All: 136.966 $\pm$ 0.018  $\chi^2$ /NDF: 3370702.3/57

asym\_sam6\_correction\_mean vs Slug, Sign Corrected



Right In: 251.733 $\pm$ 252.819  $\chi^2$ /NDF: 14.9/16

Left Out: 516.549 $\pm$ 340.518  $\chi^2$ /NDF:25.2/11

Right Out: 95.805 $\pm$ 245.748  $\chi^2$ /NDF: 17.5/17

Left In: 355.606 $\pm$ 344.412  $\chi^2$ /NDF:18.1/10

Left: 436.993 $\pm$ 242.147  $\chi^2$ /NDF: 43.4/22

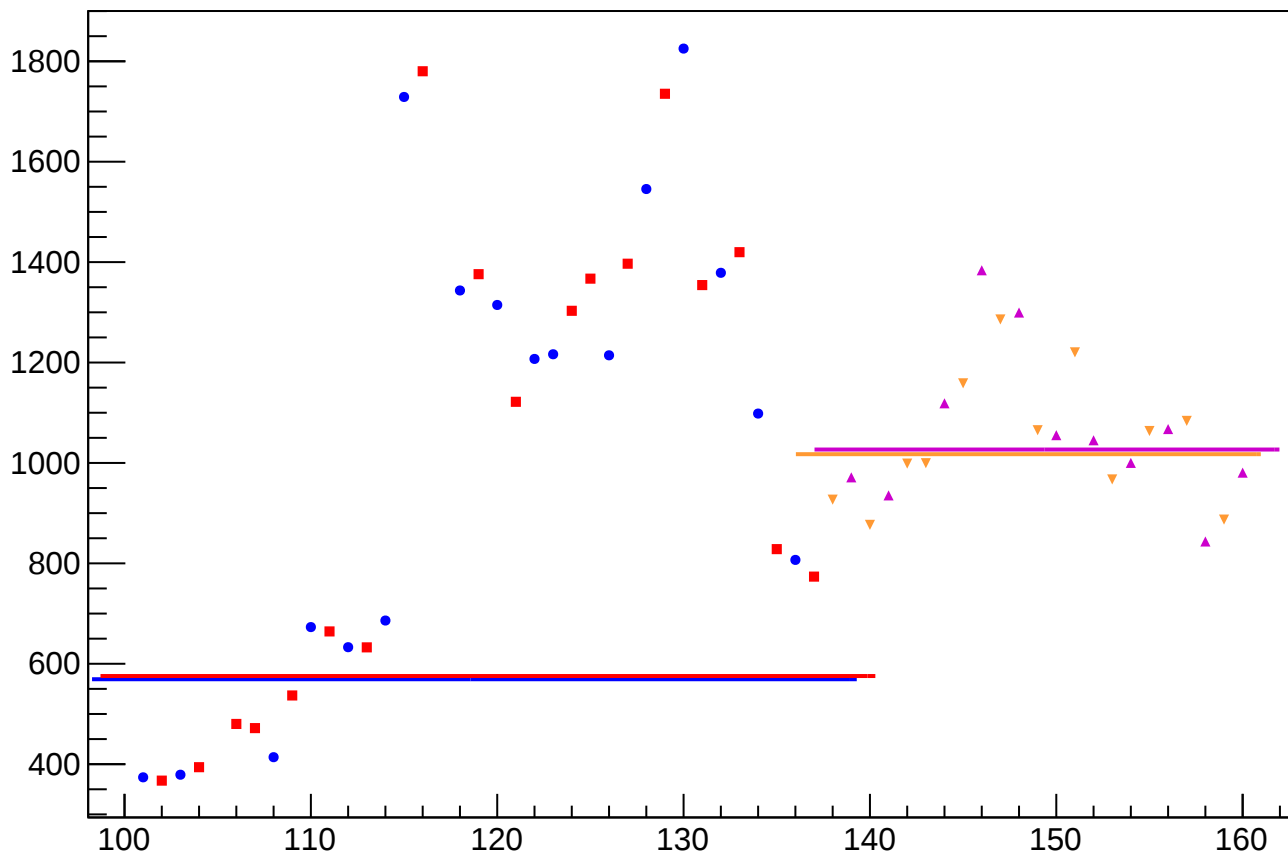
Right: 171.557 $\pm$ 176.217  $\chi^2$ /NDF: 32.5/34

In: 288.105 $\pm$ 203.804  $\chi^2$ /NDF:33.0/27

Out: 239.895 $\pm$ 199.273  $\chi^2$ /NDF:43.7/29

All: 263.458 $\pm$ 142.482  $\chi^2$ /NDF: 76.7/57

asym\_sam6\_correction\_rms vs Slug, Sign Corrected



Right In: 569.200 $\pm$ 0.179  $\chi^2$ /NDF: 3267047.1/16

Left Out: 1017.444 $\pm$ 0.241  $\chi^2$ /NDF:241762.5/11

Right Out: 575.584 $\pm$ 0.174  $\chi^2$ /NDF: 3058273.5/17

Left In: 1026.715 $\pm$ 0.244  $\chi^2$ /NDF:297433.6/10

Left: 1022.027 $\pm$ 0.171  $\chi^2$ /NDF: 539928.9/22

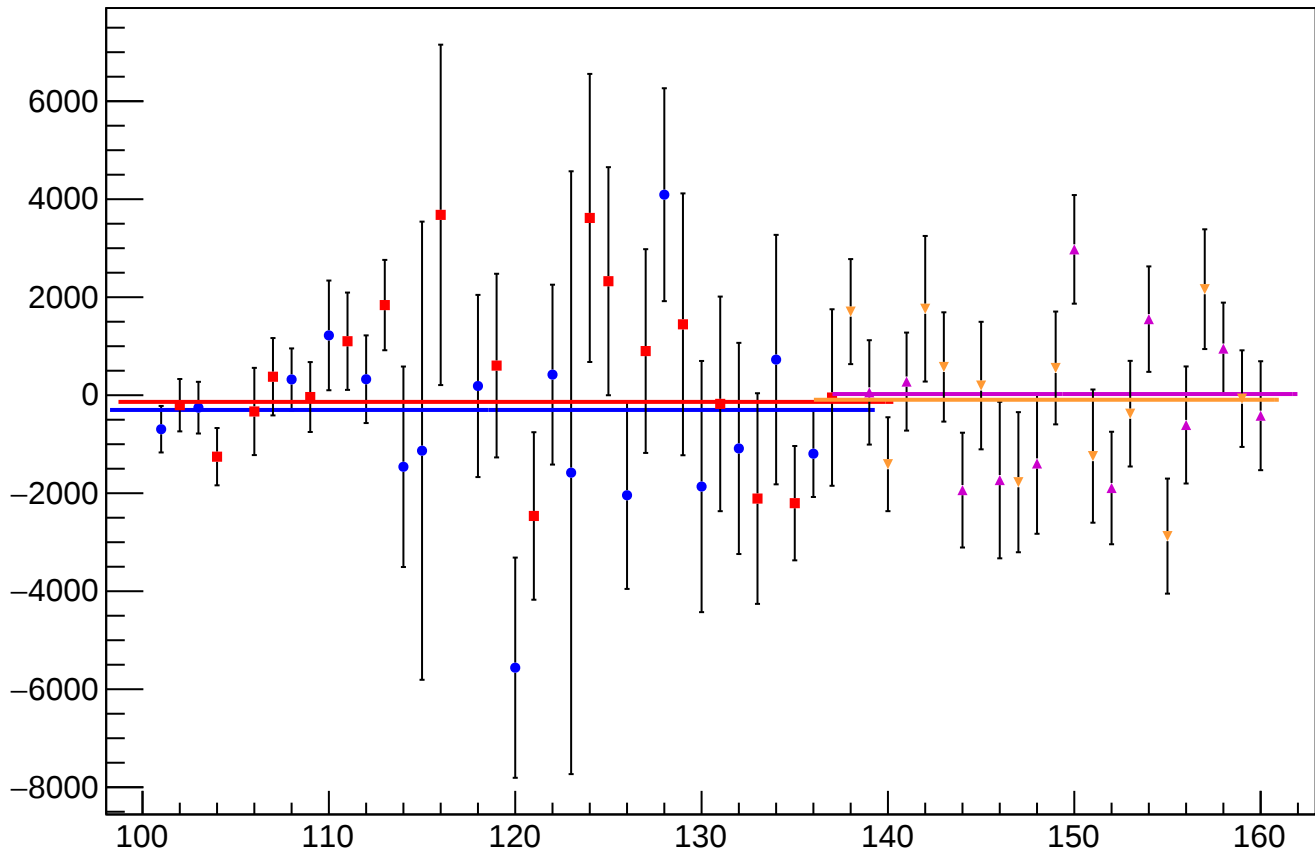
Right: 572.482 $\pm$ 0.125  $\chi^2$ /NDF: 6325976.2/34

In: 729.404 $\pm$ 0.144  $\chi^2$ /NDF:5857936.1/27

Out: 726.906 $\pm$ 0.141  $\chi^2$ /NDF:5514350.8/29

All: 728.127 $\pm$ 0.101  $\chi^2$ /NDF: 11372440.5/57

# asym\_sam6\_mean vs Slug, Sign Corrected



Right In: -300.652+/-250.302  $\chi^2/\text{NDF}$ : 16.7/16

Left Out: -92.635+/-335.622  $\chi^2/\text{NDF}$ :18.2/11

Right Out: -136.107+/-247.692  $\chi^2/\text{NDF}$ : 20.9/17

Left In: 24.075+/-341.591  $\chi^2/\text{NDF}$ :18.4/10

Left: -35.308+/-239.403  $\chi^2/\text{NDF}$ : 36.6/22

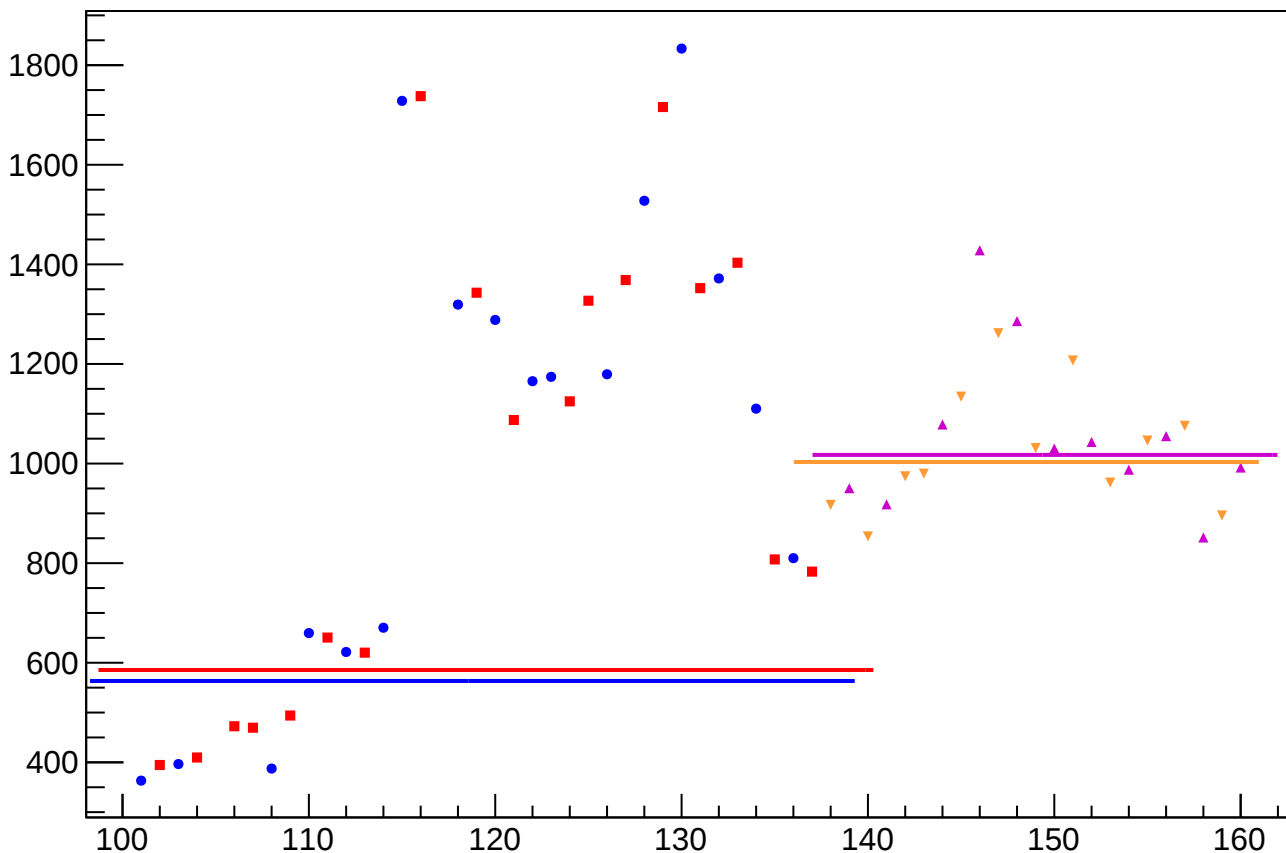
Right: -217.517+/-176.060  $\chi^2/\text{NDF}$ : 37.8/34

In: -187.208+/-201.901  $\chi^2/\text{NDF}$ :35.7/27

Out: -120.778+/-199.295  $\chi^2/\text{NDF}$ :39.1/29

All: -153.562+/-141.835  $\chi^2/\text{NDF}$ : 74.8/57

# asym\_sam6\_rms vs Slug, Sign Corrected



Right In: 563.393 $\pm$ 0.177  $\chi^2/\text{NDF}$ : 3259045.7/16

Left Out: 1003.124 $\pm$ 0.237  $\chi^2/\text{NDF}$ : 231635.0/11

Right Out: 585.438 $\pm$ 0.175  $\chi^2/\text{NDF}$ : 2818143.7/17

Left In: 1017.371 $\pm$ 0.242  $\chi^2/\text{NDF}$ : 303768.8/10

Left: 1010.122 $\pm$ 0.169  $\chi^2/\text{NDF}$ : 537173.9/22

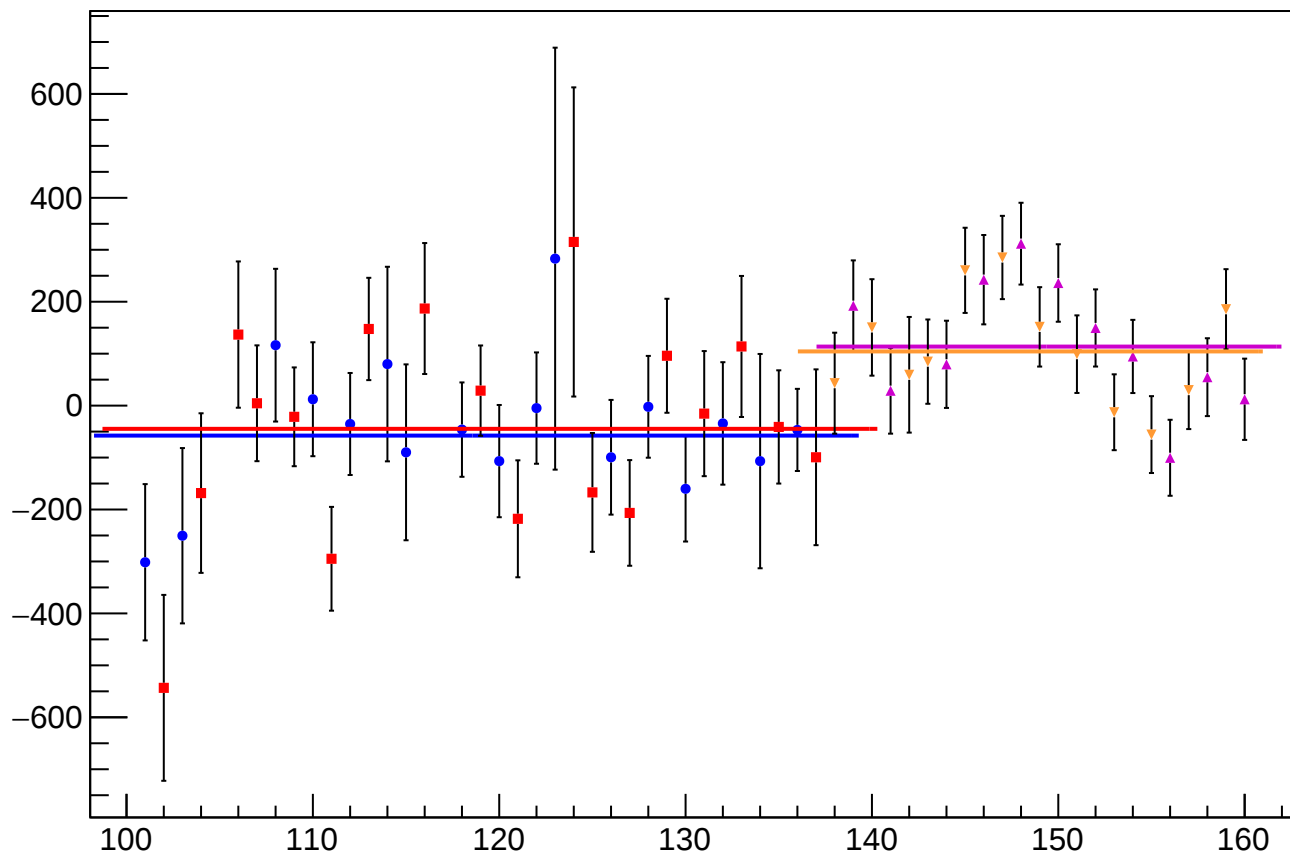
Right: 574.531 $\pm$ 0.124  $\chi^2/\text{NDF}$ : 6085027.9/34

In: 721.991 $\pm$ 0.143  $\chi^2/\text{NDF}$ : 5861255.3/27

Out: 732.717 $\pm$ 0.141  $\chi^2/\text{NDF}$ : 5055155.5/29

All: 727.424 $\pm$ 0.100  $\chi^2/\text{NDF}$ : 10919269.6/57

# dit\_asym\_sam7\_mean vs Slug, Sign Corrected



Right In: -57.709 $\pm$ 28.693  $\chi^2/\text{NDF}$ : 9.1/16

Left Out: 104.326 $\pm$ 23.406  $\chi^2/\text{NDF}$ :19.3/11

Right Out: -44.693 $\pm$ 27.711  $\chi^2/\text{NDF}$ : 35.2/17

Left In: 113.637 $\pm$ 23.523  $\chi^2/\text{NDF}$ :24.5/10

Left: 108.958 $\pm$ 16.592  $\chi^2/\text{NDF}$ : 43.9/22

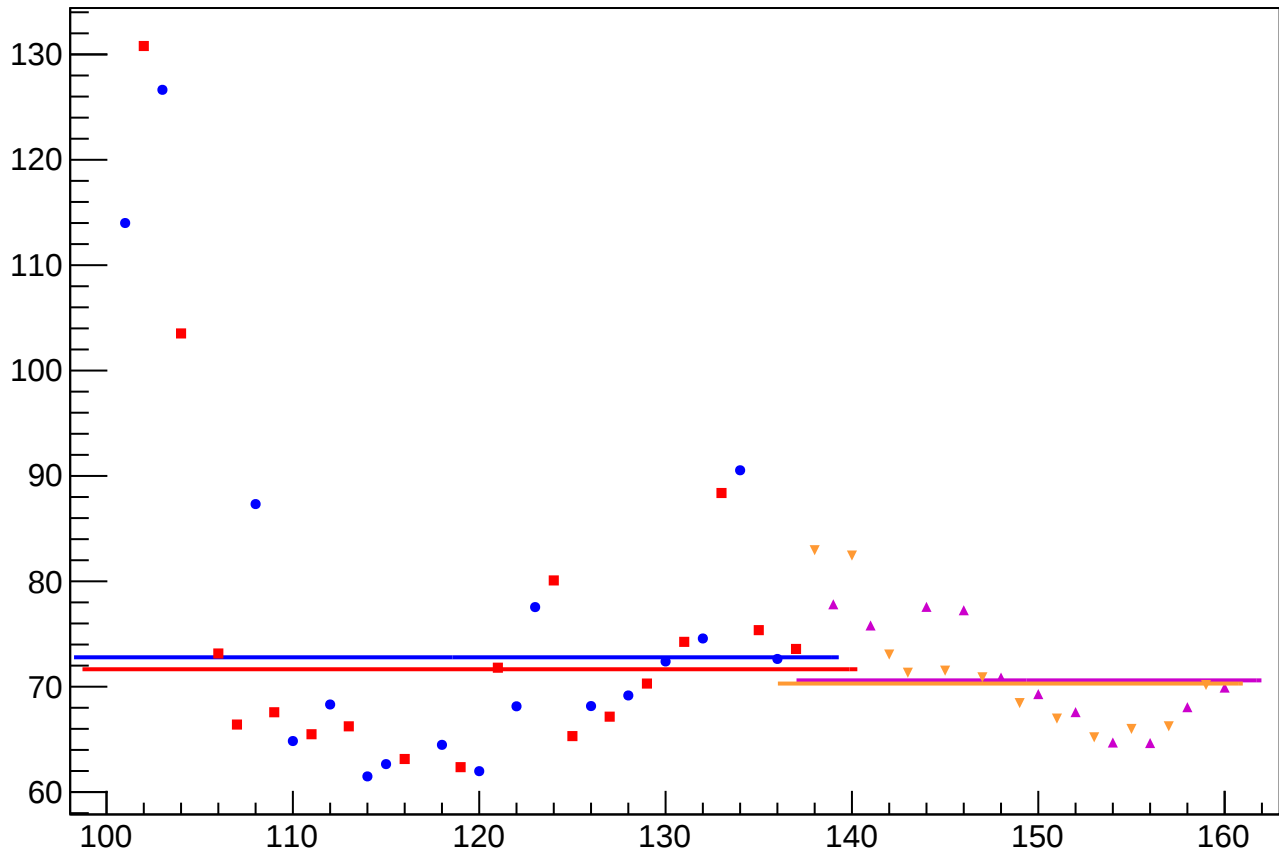
Right: -50.974 $\pm$ 19.933  $\chi^2/\text{NDF}$ : 44.4/34

In: 44.765 $\pm$ 18.191  $\chi^2/\text{NDF}$ :54.9/27

Out: 42.280 $\pm$ 17.881  $\chi^2/\text{NDF}$ :71.4/29

All: 43.501 $\pm$ 12.752  $\chi^2/\text{NDF}$ : 126.3/57

# dit\_asym\_sam7\_rms vs Slug, Sign Corrected



Right In: 72.790 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 464772.9/16

Left Out: 70.298 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 97777.0/11

Right Out: 71.655 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 404376.9/17

Left In: 70.600 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 81043.1/10

Left: 70.448 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 178985.8/22

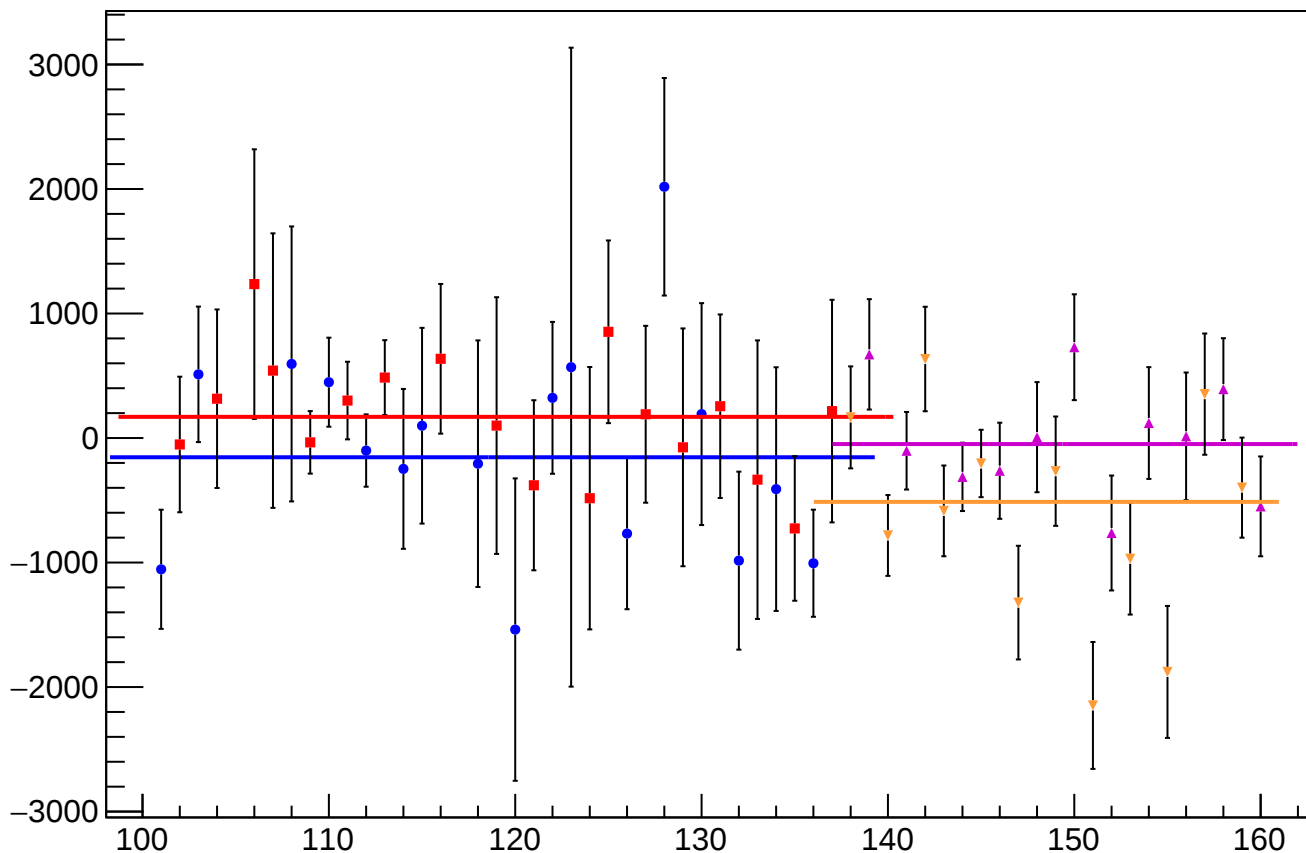
Right: 72.203 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 870767.9/34

In: 71.480 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 552782.4/27

Out: 70.863 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 504953.9/29

All: 71.166 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 1058906.9/57

asym\_sam7\_correction\_mean vs Slug, Sign Corrected



Right In: -154.404+/-140.700  $\chi^2/\text{NDF}$ : 23.2/16

Left Out: -512.793+/-115.386  $\chi^2/\text{NDF}$ :36.9/11

Right Out: 170.028+/-126.220  $\chi^2/\text{NDF}$ : 8.4/17

Left In: -48.464+/-118.102  $\chi^2/\text{NDF}$ :12.5/10

Left: -286.029+/-82.534  $\chi^2/\text{NDF}$ : 57.4/22

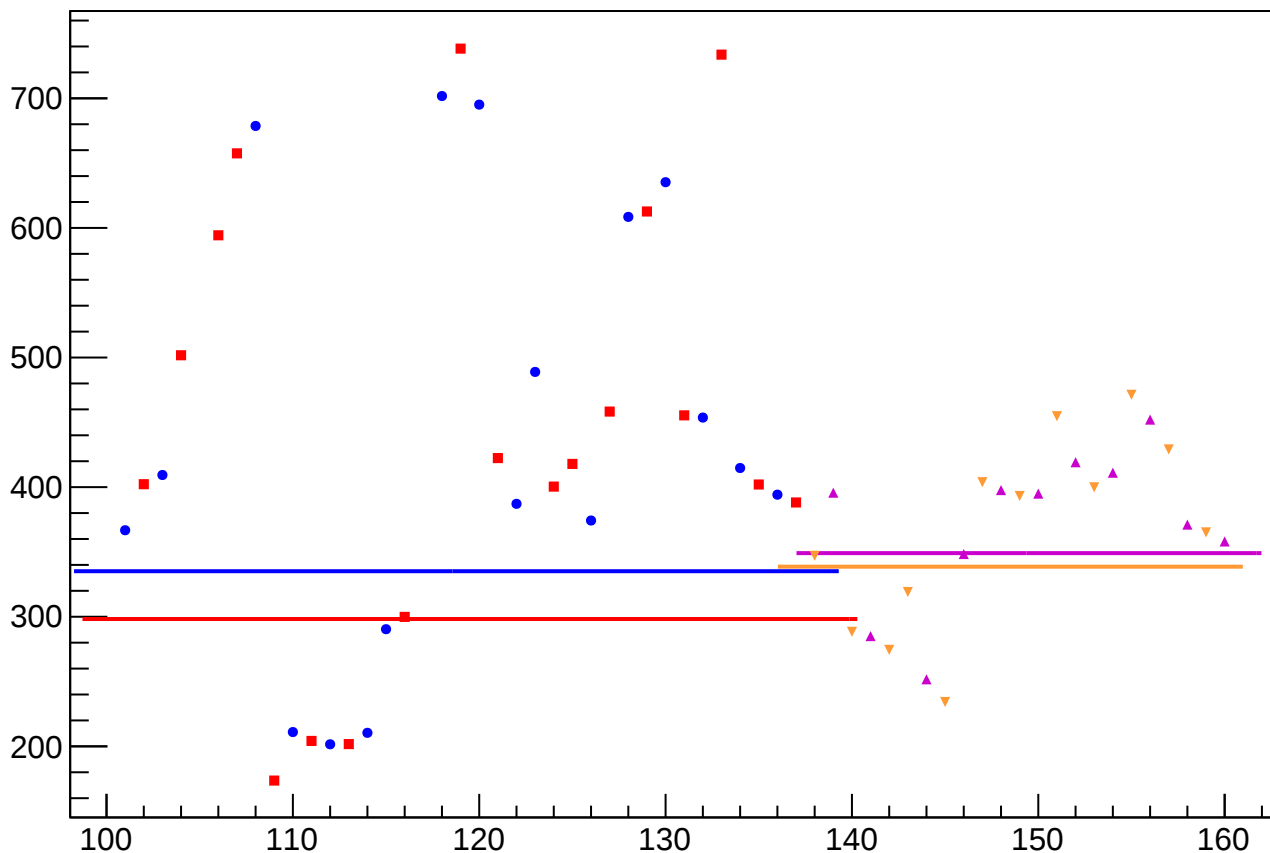
Right: 25.360+/-93.955  $\chi^2/\text{NDF}$ : 34.5/34

In: -92.253+/-90.458  $\chi^2/\text{NDF}$ :36.1/27

Out: -201.942+/-85.163  $\chi^2/\text{NDF}$ :61.3/29

All: -150.402+/-62.007  $\chi^2/\text{NDF}$ : 98.1/57

asym\_sam7\_correction\_rms vs Slug, Sign Corrected



Right In: 335.134+/-0.099  $\chi^2/\text{NDF}$ : 1994045.2/16

Left Out: 338.635+/-0.082  $\chi^2/\text{NDF}$ : 814883.8/11

Right Out: 298.253+/-0.089  $\chi^2/\text{NDF}$ : 2776555.9/17

Left In: 349.091+/-0.084  $\chi^2/\text{NDF}$ : 577855.5/10

Left: 343.741+/-0.058  $\chi^2/\text{NDF}$ : 1400760.3/22

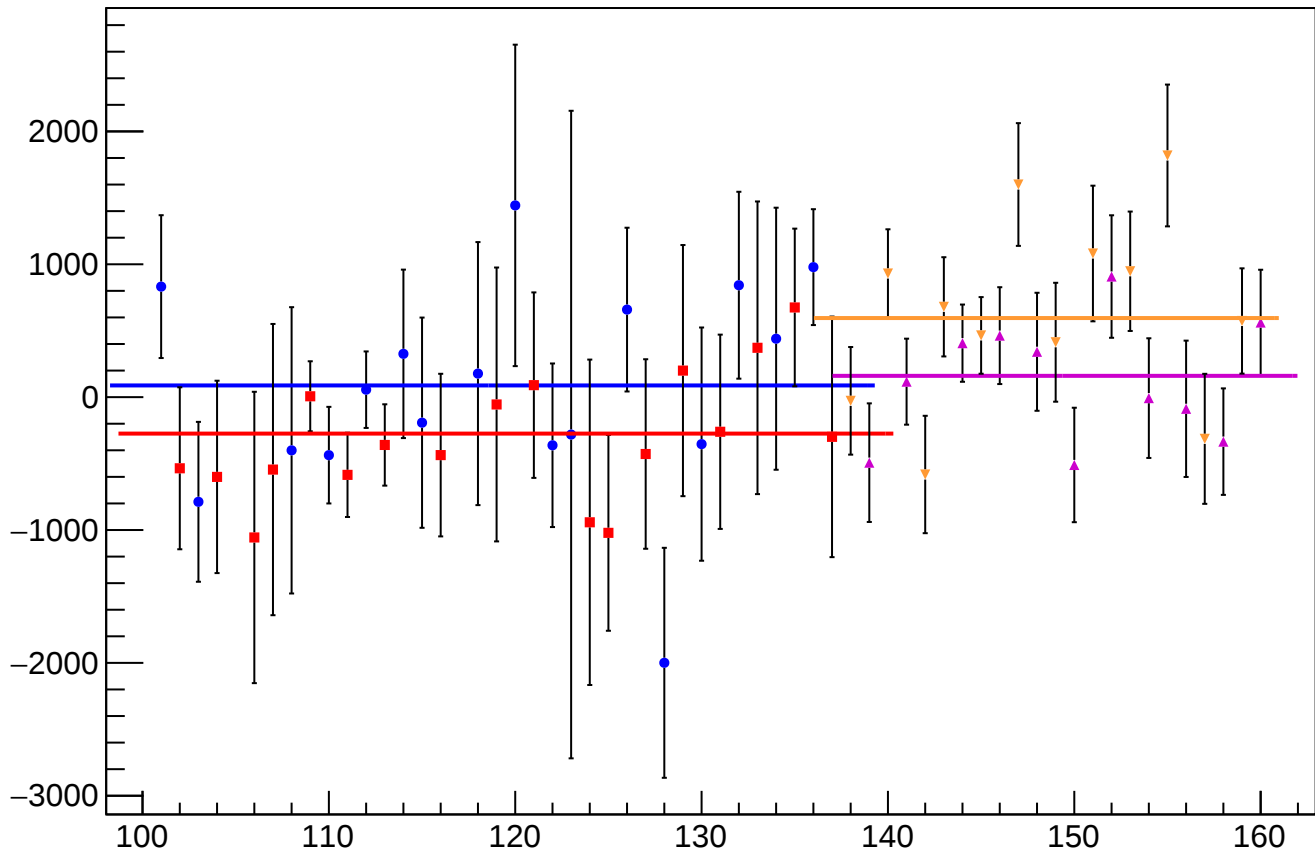
Right: 314.699+/-0.066  $\chi^2/\text{NDF}$ : 4846742.5/34

In: 343.322+/-0.064  $\chi^2/\text{NDF}$ : 2583445.6/27

Out: 320.251+/-0.060  $\chi^2/\text{NDF}$ : 3702954.1/29

All: 331.092+/-0.044  $\chi^2/\text{NDF}$ : 6355365.9/57

# asym\_sam7\_mean vs Slug, Sign Corrected



Right In: 88.115 $\pm$ 143.018  $\chi^2/\text{NDF}$ : 20.8/16

Left Out: 595.325 $\pm$ 117.864  $\chi^2/\text{NDF}$ :25.9/11

Right Out: -274.340 $\pm$ 129.866  $\chi^2/\text{NDF}$ : 8.0/17

Left In: 160.365 $\pm$ 119.192  $\chi^2/\text{NDF}$ :11.7/10

Left: 380.281 $\pm$ 83.808  $\chi^2/\text{NDF}$ : 44.3/22

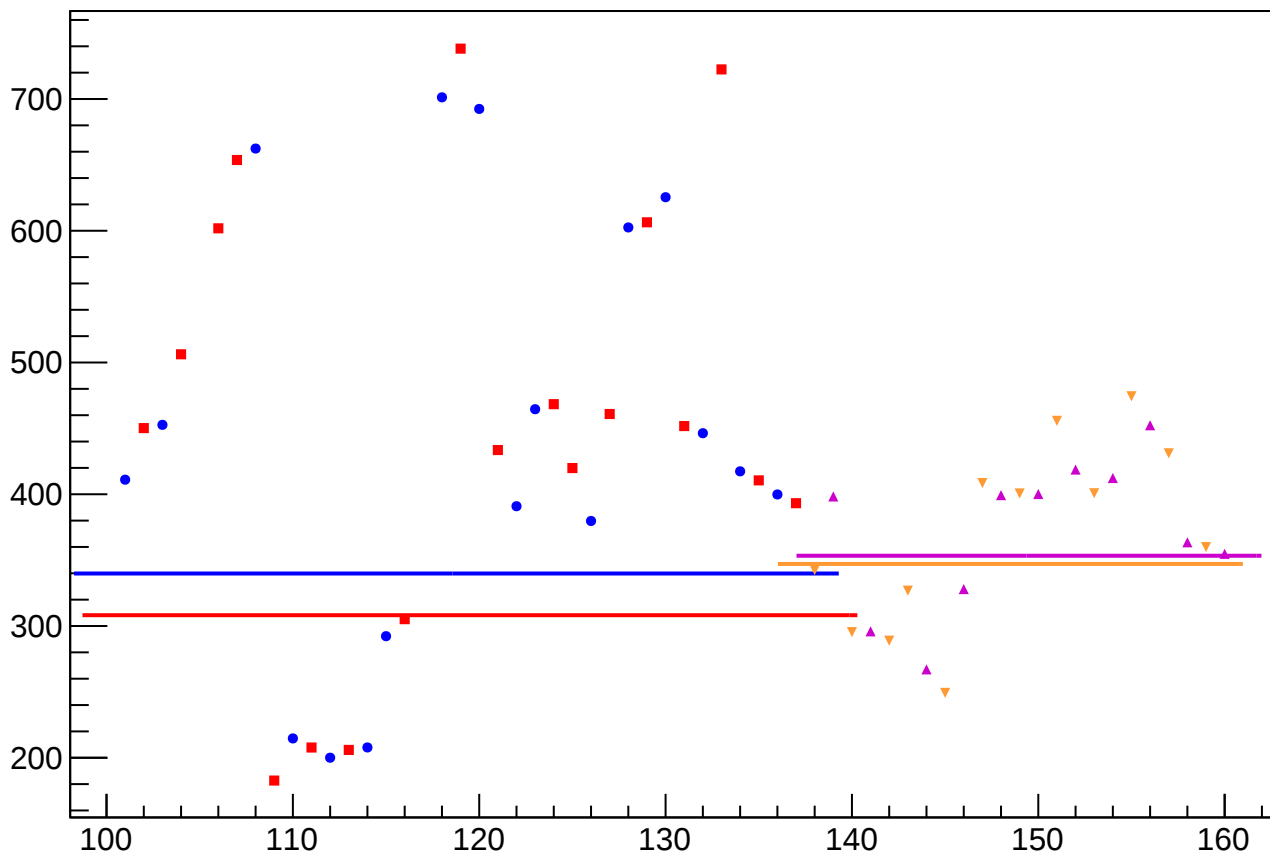
Right: -110.540 $\pm$ 96.143  $\chi^2/\text{NDF}$ : 32.4/34

In: 130.751 $\pm$ 91.563  $\chi^2/\text{NDF}$ :32.7/27

Out: 202.527 $\pm$ 87.278  $\chi^2/\text{NDF}$ :58.5/29

All: 168.358 $\pm$ 63.175  $\chi^2/\text{NDF}$ : 91.5/57

# asym\_sam7\_rms vs Slug, Sign Corrected



Right In:  $339.850 \pm 0.101$   $\chi^2/\text{NDF}$ : 2043522.4/16

Left Out:  $347.104 \pm 0.083$   $\chi^2/\text{NDF}$ : 677466.3/11

Right Out:  $308.199 \pm 0.092$   $\chi^2/\text{NDF}$ : 2698828.8/17

Left In:  $353.333 \pm 0.084$   $\chi^2/\text{NDF}$ : 464468.2/10

Left:  $350.184 \pm 0.059$   $\chi^2/\text{NDF}$ : 1144696.4/22

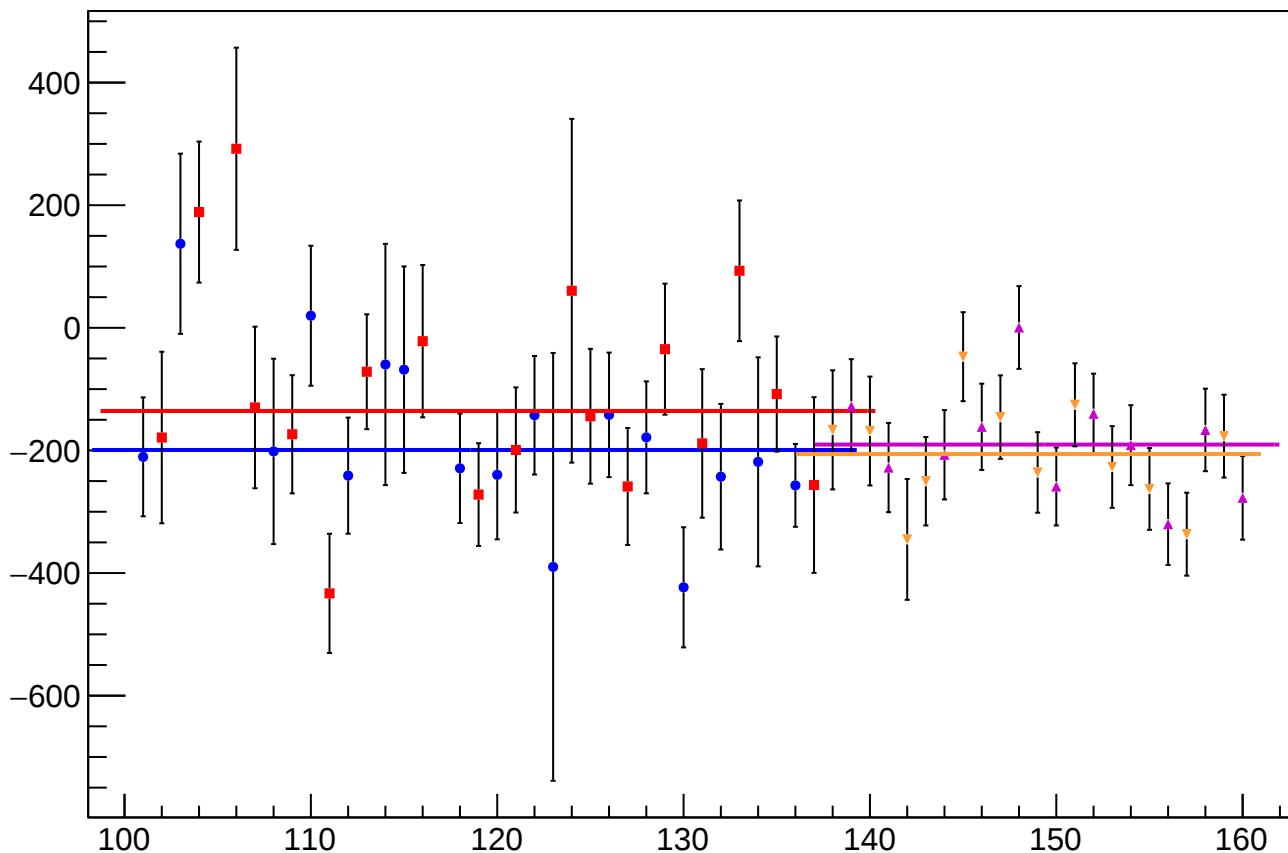
Right:  $322.502 \pm 0.068$   $\chi^2/\text{NDF}$ : 4796037.7/34

In:  $347.807 \pm 0.065$   $\chi^2/\text{NDF}$ : 2518481.1/27

Out:  $329.532 \pm 0.062$   $\chi^2/\text{NDF}$ : 3474717.7/29

All:  $338.232 \pm 0.045$   $\chi^2/\text{NDF}$ : 6034941.4/57

# dit\_asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -199.252 $\pm$ 26.515  $\chi^2/\text{NDF}$ : 17.6/16

Left Out: -205.883 $\pm$ 20.984  $\chi^2/\text{NDF}$ : 14.7/11

Right Out: -135.623 $\pm$ 26.252  $\chi^2/\text{NDF}$ : 36.7/17

Left In: -190.413 $\pm$ 20.647  $\chi^2/\text{NDF}$ : 16.4/10

Left: -198.023 $\pm$ 14.718  $\chi^2/\text{NDF}$ : 31.4/22

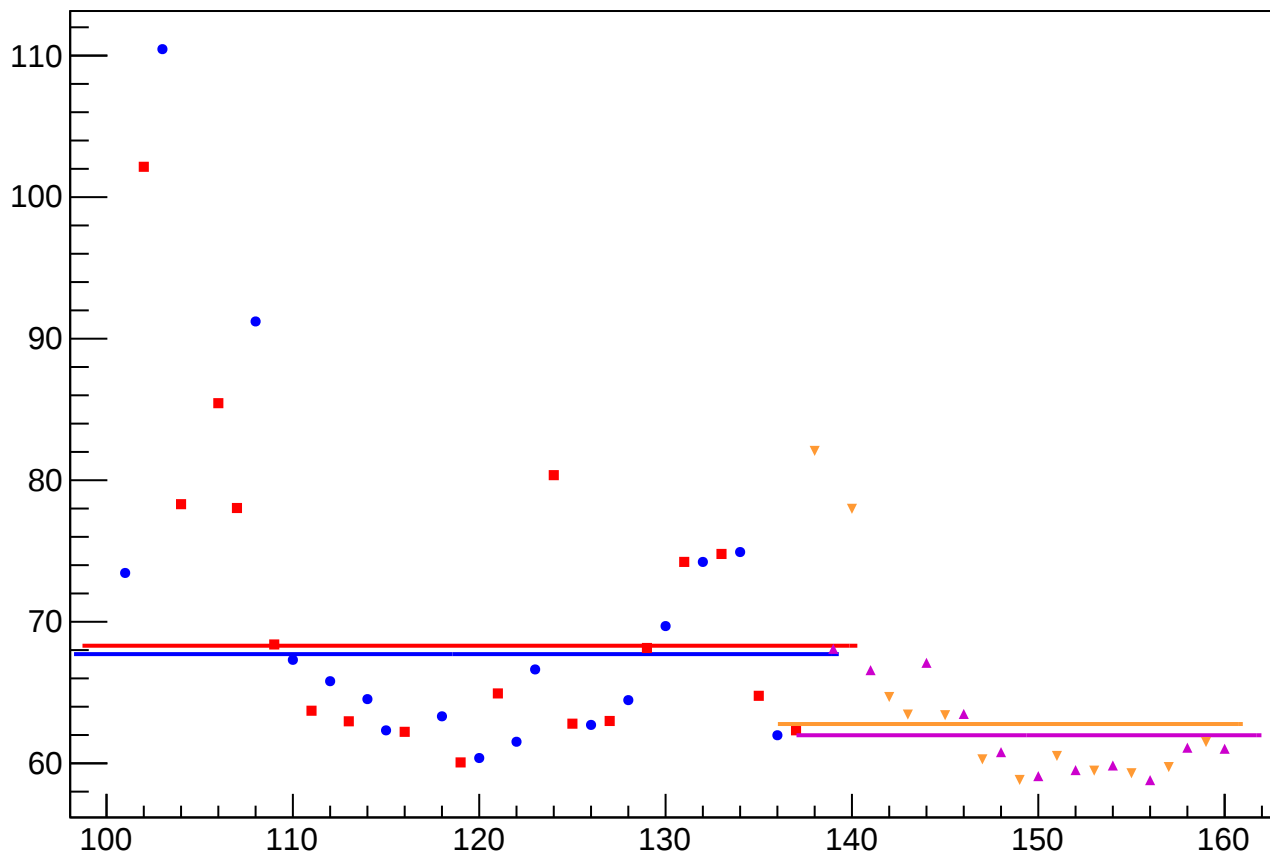
Right: -167.121 $\pm$ 18.655  $\chi^2/\text{NDF}$ : 57.2/34

In: -193.750 $\pm$ 16.291  $\chi^2/\text{NDF}$ : 34.1/27

Out: -178.493 $\pm$ 16.391  $\chi^2/\text{NDF}$ : 55.7/29

All: -186.168 $\pm$ 11.555  $\chi^2/\text{NDF}$ : 90.2/57

# dit\_asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 67.715 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 282892.5/16

Left Out: 62.777 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 165883.9/11

Right Out: 68.308 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 234314.0/17

Left In: 61.983 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 46382.3/10

Left: 62.374 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 213719.7/22

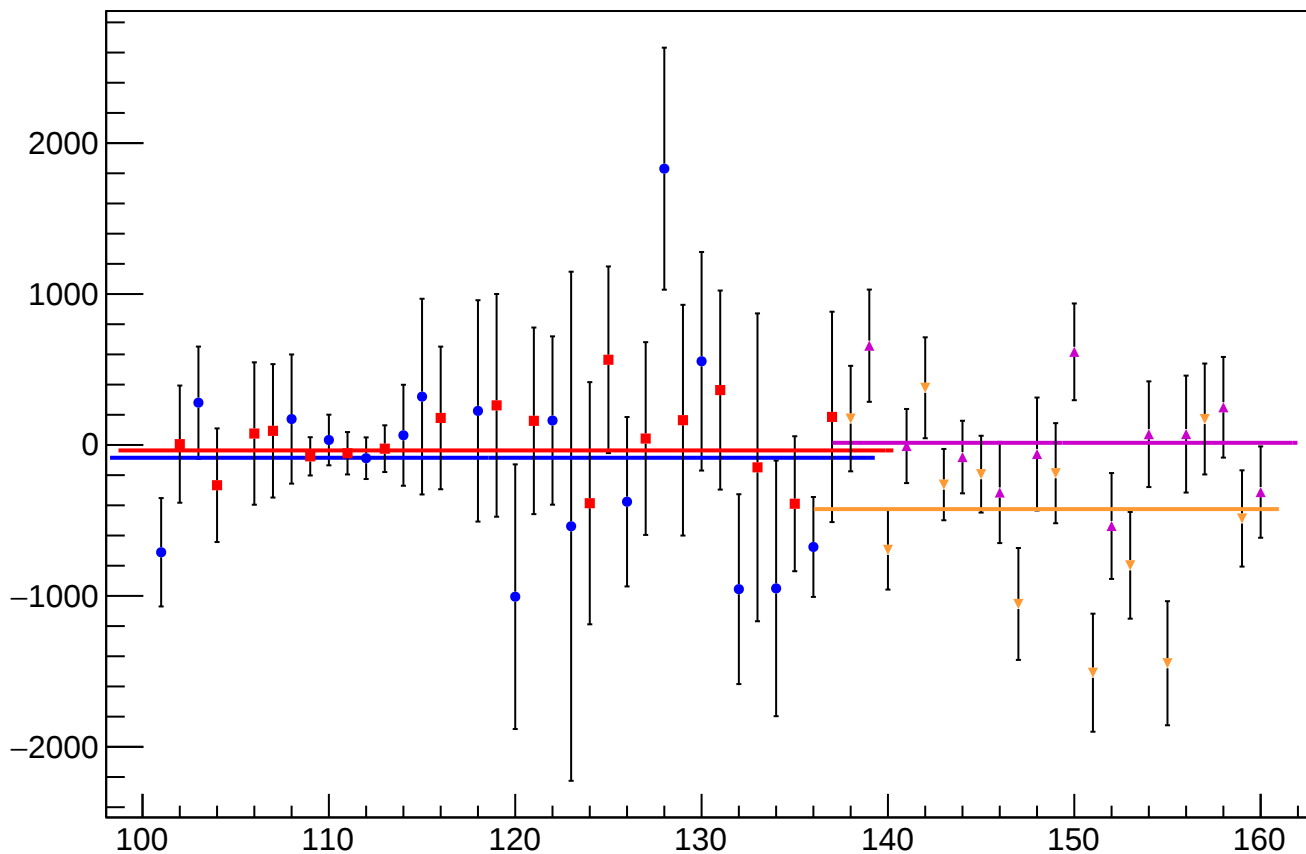
Right: 68.015 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 517711.7/34

In: 64.147 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 387459.5/27

Out: 64.933 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 454373.9/29

All: 64.538 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 844148.7/57

asym\_sam8\_correction\_mean vs Slug, Sign Corrected



Right In: -84.759 $\pm$ 82.667  $\chi^2/\text{NDF}$ : 19.9/16

Left Out: -424.941 $\pm$ 91.679  $\chi^2/\text{NDF}$ : 32.1/11

Right Out: -36.132 $\pm$ 69.750  $\chi^2/\text{NDF}$ : 3.4/17

Left In: 14.275 $\pm$ 95.452  $\chi^2/\text{NDF}$ : 11.9/10

Left: -214.185 $\pm$ 66.121  $\chi^2/\text{NDF}$ : 55.0/22

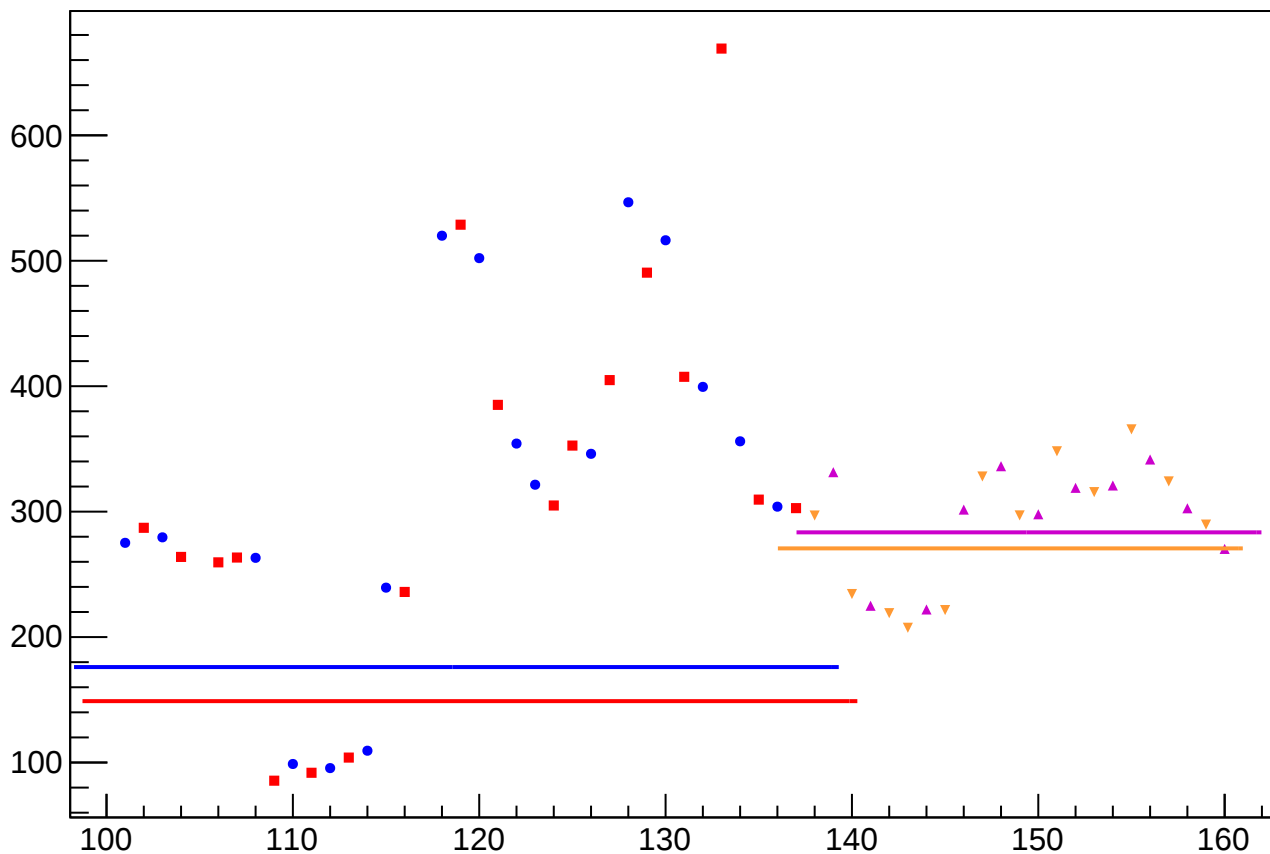
Right: -56.354 $\pm$ 53.310  $\chi^2/\text{NDF}$ : 23.5/34

In: -42.314 $\pm$ 62.490  $\chi^2/\text{NDF}$ : 32.4/27

Out: -178.676 $\pm$ 55.511  $\chi^2/\text{NDF}$ : 46.9/29

All: -118.532 $\pm$ 41.501  $\chi^2/\text{NDF}$ : 82.0/57

asym\_sam8\_correction\_rms vs Slug, Sign Corrected



Right In: 176.096+/-0.058  $\chi^2/\text{NDF}$ : 4223651.6/16

Left Out: 270.701+/-0.065  $\chi^2/\text{NDF}$ : 642105.6/11

Right Out: 148.932+/-0.049  $\chi^2/\text{NDF}$ : 4770916.6/17

Left In: 283.488+/-0.067  $\chi^2/\text{NDF}$ : 425922.0/10

Left: 276.837+/-0.047  $\chi^2/\text{NDF}$ : 1086696.6/22

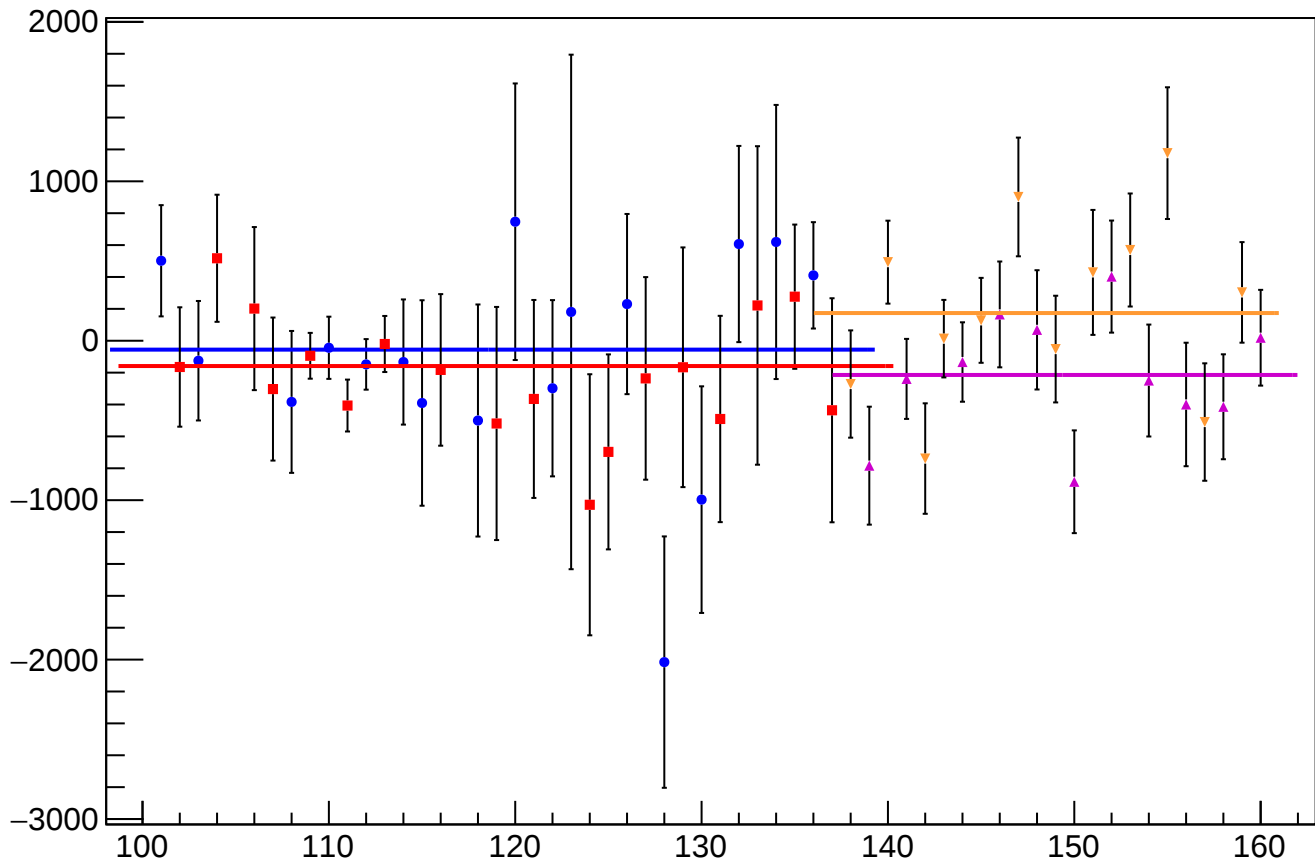
Right: 160.228+/-0.038  $\chi^2/\text{NDF}$ : 9120718.3/34

In: 222.124+/-0.044  $\chi^2/\text{NDF}$ : 6096173.7/27

Out: 193.575+/-0.039  $\chi^2/\text{NDF}$ : 7647791.7/29

All: 206.167+/-0.029  $\chi^2/\text{NDF}$ : 13977288.7/57

# asym\_sam8\_mean vs Slug, Sign Corrected



Right In: -55.724 $\pm$ 90.572  $\chi^2/\text{NDF}$ : 17.1/16

Left Out: 173.737 $\pm$ 92.509  $\chi^2/\text{NDF}$ : 26.1/11

Right Out: -158.676 $\pm$ 77.072  $\chi^2/\text{NDF}$ : 10.4/17

Left In: -214.592 $\pm$ 96.069  $\chi^2/\text{NDF}$ : 13.0/10

Left: -13.100 $\pm$ 66.637  $\chi^2/\text{NDF}$ : 47.6/22

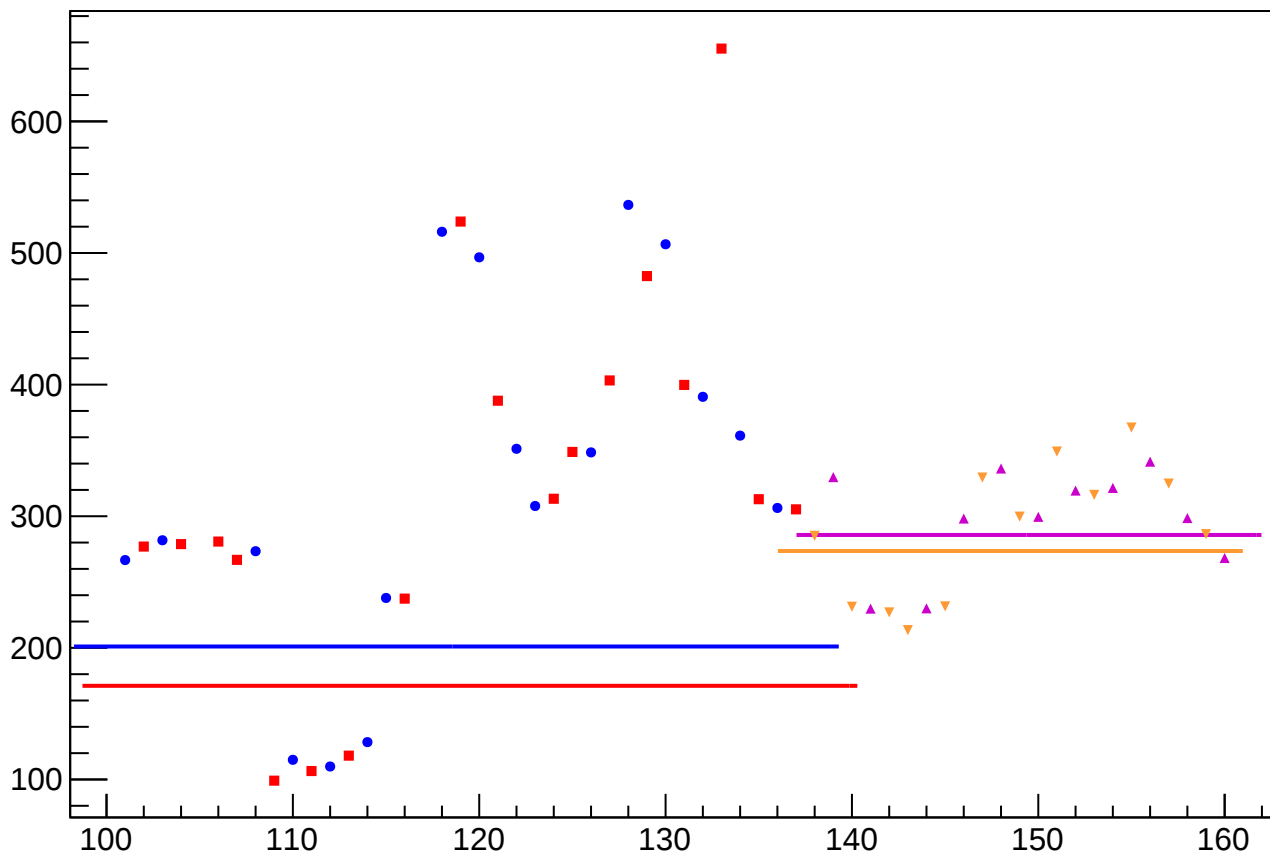
Right: -115.437 $\pm$ 58.697  $\chi^2/\text{NDF}$ : 28.3/34

In: -130.483 $\pm$ 65.902  $\chi^2/\text{NDF}$ : 31.6/27

Out: -22.480 $\pm$ 59.214  $\chi^2/\text{NDF}$ : 44.1/29

All: -70.725 $\pm$ 44.046  $\chi^2/\text{NDF}$ : 77.2/57

# asym\_sam8\_rms vs Slug, Sign Corrected



Right In: 201.036 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 3433026.4/16

Left Out: 273.599 $\pm$ 0.065  $\chi^2/\text{NDF}$ :569357.8/11

Right Out: 171.159 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 4065598.7/17

Left In: 285.777 $\pm$ 0.068  $\chi^2/\text{NDF}$ :361104.7/10

Left: 279.458 $\pm$ 0.047  $\chi^2/\text{NDF}$ : 947136.7/22

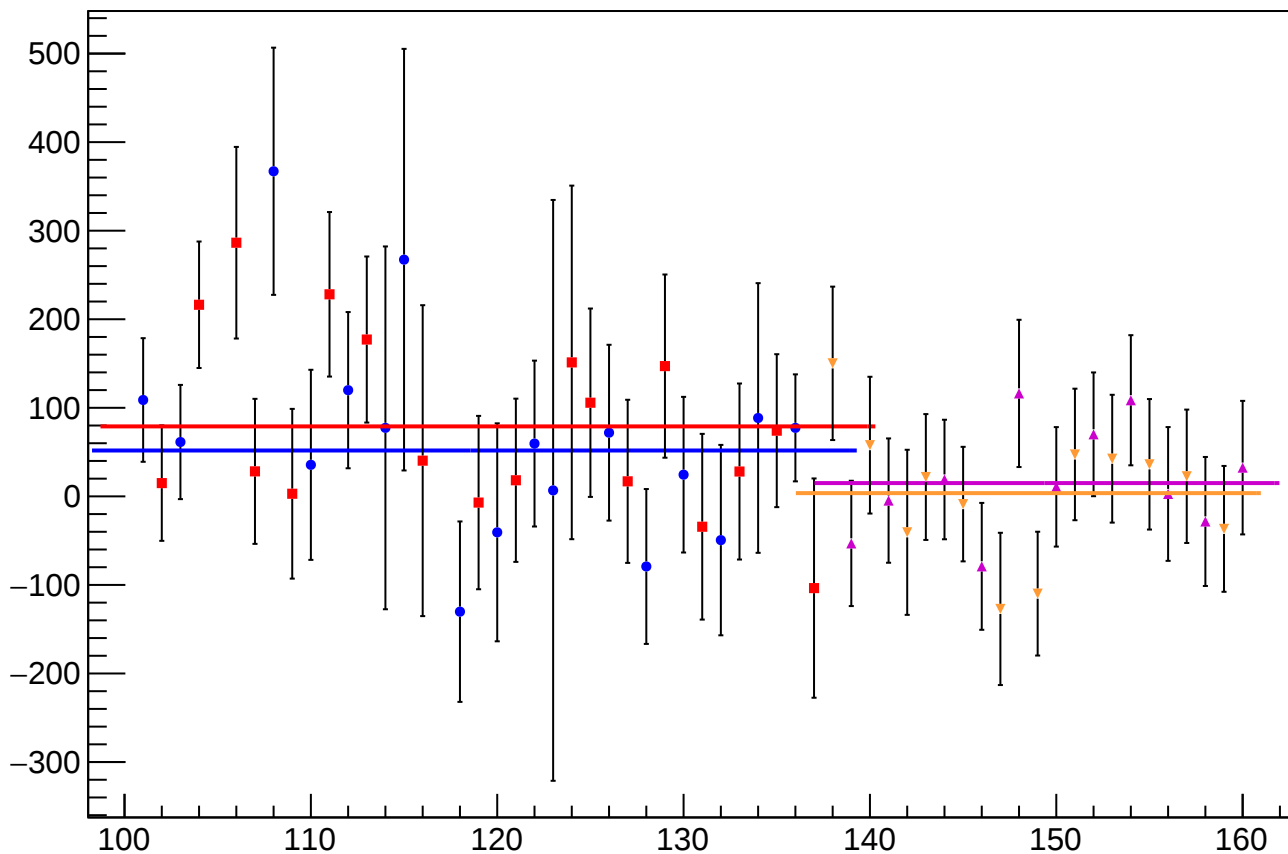
Right: 183.707 $\pm$ 0.042  $\chi^2/\text{NDF}$ : 7624855.0/34

In: 240.913 $\pm$ 0.047  $\chi^2/\text{NDF}$ :4617983.0/27

Out: 213.130 $\pm$ 0.042  $\chi^2/\text{NDF}$ :6082592.7/29

All: 225.541 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 10897243.9/57

dit\_asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 51.799 $\pm$ 23.538  $\chi^2/\text{NDF}$ : 14.5/16

Left Out: 3.652 $\pm$ 21.693  $\chi^2/\text{NDF}$ : 9.8/11

Right Out: 79.008 $\pm$ 22.499  $\chi^2/\text{NDF}$ : 19.0/17

Left In: 15.007 $\pm$ 21.764  $\chi^2/\text{NDF}$ : 6.9/10

Left: 9.311 $\pm$ 15.364  $\chi^2/\text{NDF}$ : 16.9/22

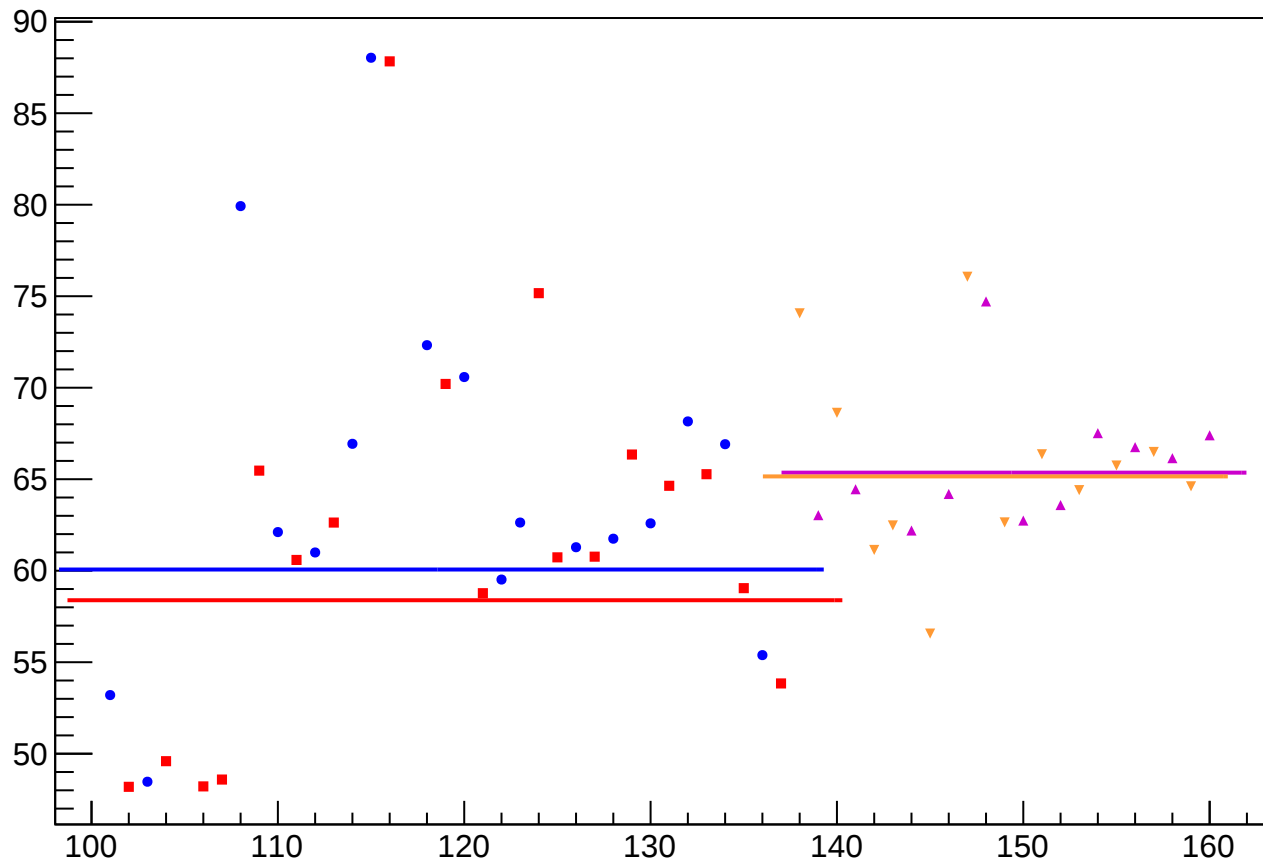
Right: 66.018 $\pm$ 16.264  $\chi^2/\text{NDF}$ : 34.2/34

In: 31.965 $\pm$ 15.980  $\chi^2/\text{NDF}$ : 22.7/27

Out: 39.956 $\pm$ 15.616  $\chi^2/\text{NDF}$ : 34.6/29

All: 36.052 $\pm$ 11.169  $\chi^2/\text{NDF}$ : 57.5/57

dit\_asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 60.065 $\pm$ 0.017  $\chi^2$ /NDF: 229098.7/16

Left Out: 65.153 $\pm$ 0.015  $\chi^2$ /NDF:103481.8/11

Right Out: 58.387 $\pm$ 0.016  $\chi^2$ /NDF: 275017.2/17

Left In: 65.359 $\pm$ 0.015  $\chi^2$ /NDF:41149.1/10

Left: 65.256 $\pm$ 0.011  $\chi^2$ /NDF: 144720.3/22

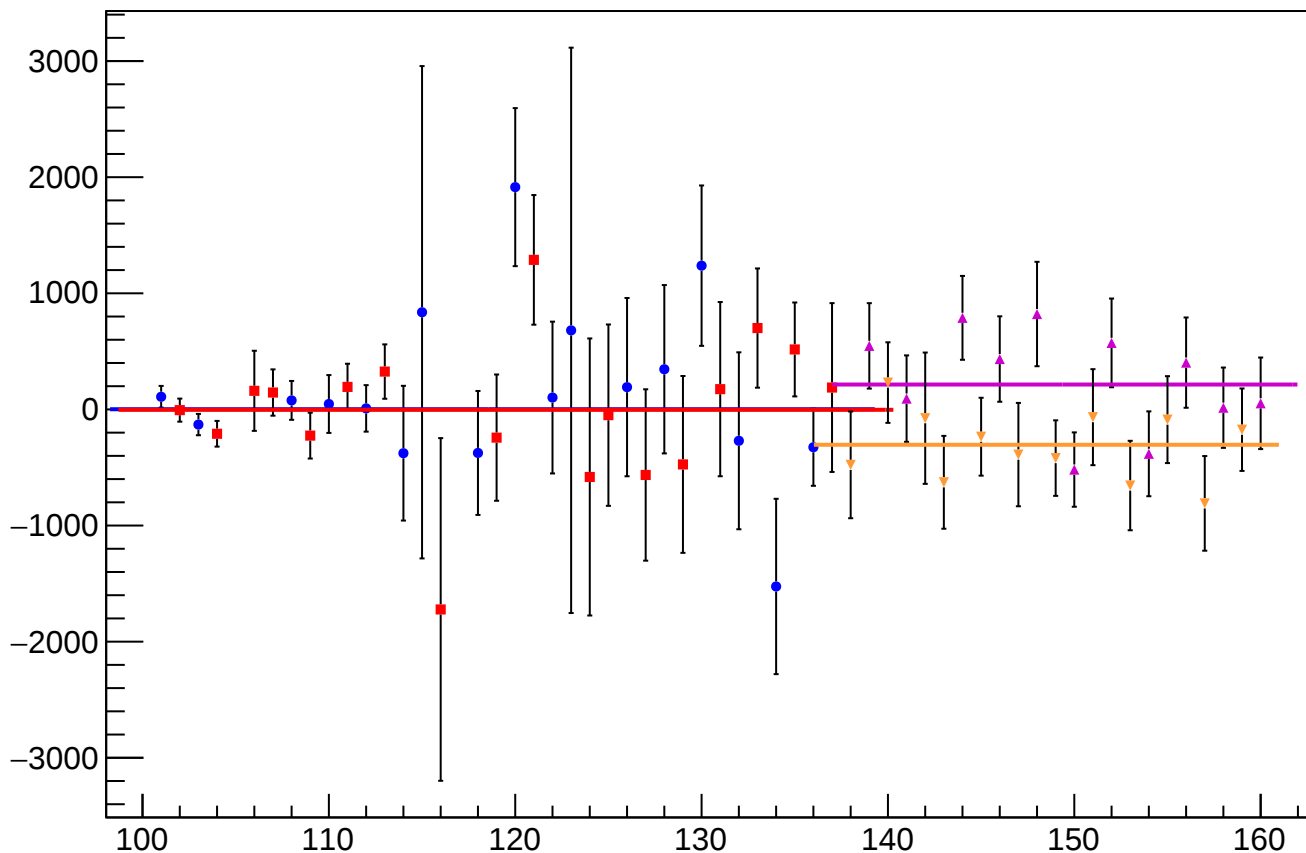
Right: 59.188 $\pm$ 0.012  $\chi^2$ /NDF: 509429.8/34

In: 62.919 $\pm$ 0.011  $\chi^2$ /NDF:324773.3/27

Out: 61.893 $\pm$ 0.011  $\chi^2$ /NDF:472239.1/29

All: 62.394 $\pm$ 0.008  $\chi^2$ /NDF: 801224.9/57

asym\_sam\_15\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: 1.581 $\pm$ 54.284  $\chi^2$ /NDF: 21.4/16

Left Out: -304.478 $\pm$ 112.148  $\chi^2$ /NDF: 6.7/11

Right Out: -3.242 $\pm$ 56.611  $\chi^2$ /NDF: 20.2/17

Left In: 214.396 $\pm$ 111.723  $\chi^2$ /NDF: 15.1/10

Left: -44.056 $\pm$ 79.150  $\chi^2$ /NDF: 32.6/22

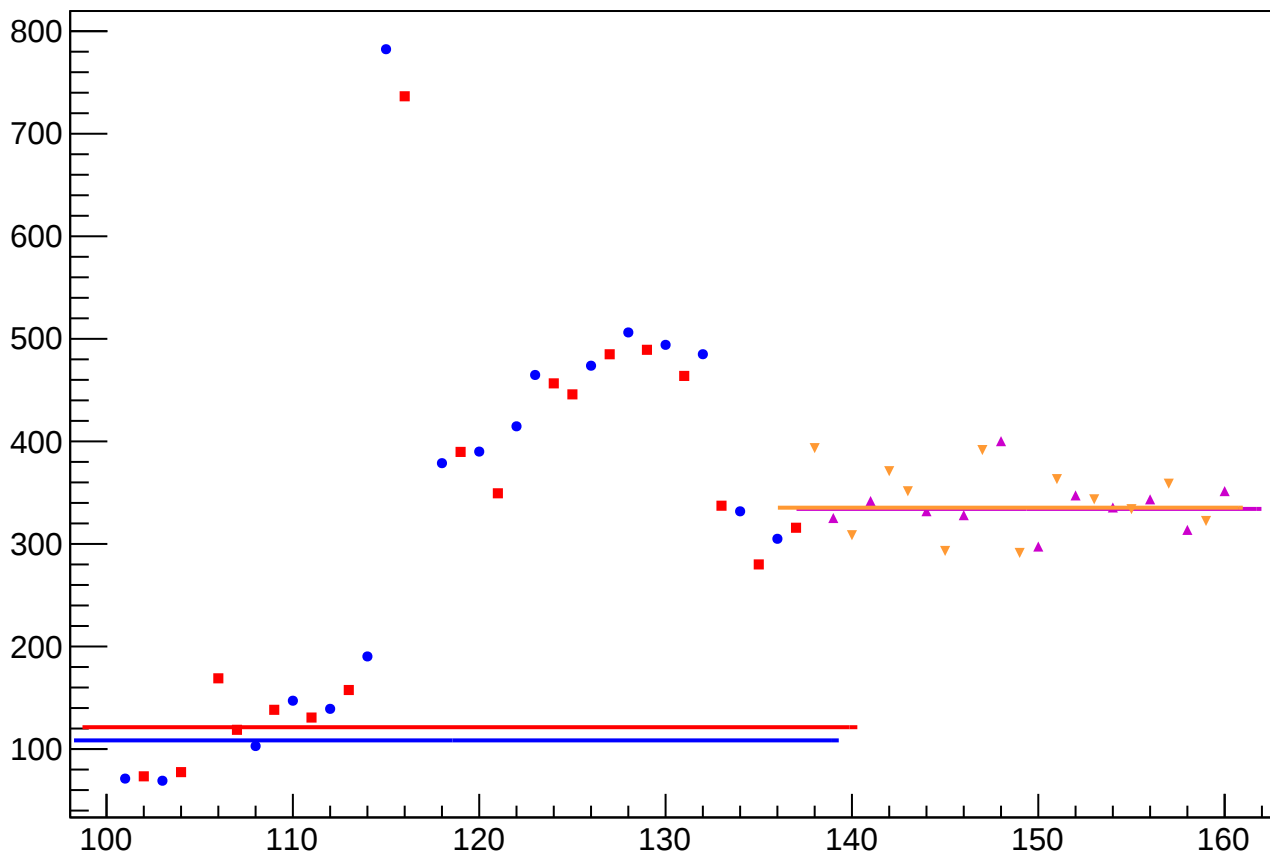
Right: -0.730 $\pm$ 39.182  $\chi^2$ /NDF: 41.6/34

In: 42.226 $\pm$ 48.826  $\chi^2$ /NDF: 39.5/27

Out: -64.414 $\pm$ 50.538  $\chi^2$ /NDF: 32.7/29

All: -9.257 $\pm$ 35.115  $\chi^2$ /NDF: 74.5/57

asym\_sam\_15\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 108.445+/-0.038  $\chi^2/\text{NDF}$ : 5404107.9/16

Left Out: 335.364+/-0.079  $\chi^2/\text{NDF}$ : 174638.2/11

Right Out: 121.303+/-0.040  $\chi^2/\text{NDF}$ : 4731568.2/17

Left In: 334.165+/-0.079  $\chi^2/\text{NDF}$ : 86527.5/10

Left: 334.762+/-0.056  $\chi^2/\text{NDF}$ : 261280.3/22

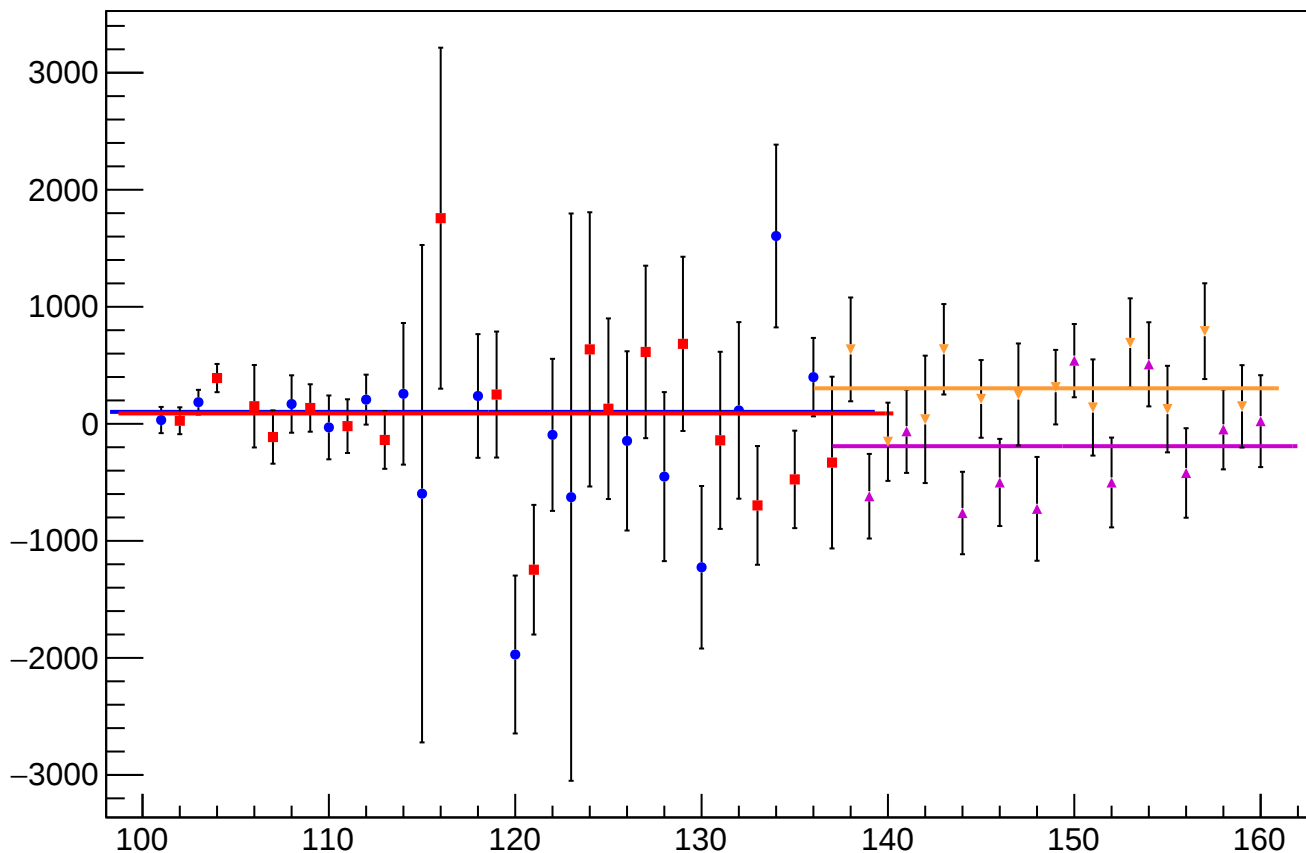
Right: 114.604+/-0.028  $\chi^2/\text{NDF}$ : 10189429.3/34

In: 151.556+/-0.035  $\chi^2/\text{NDF}$ : 12095126.3/27

Out: 164.772+/-0.036  $\chi^2/\text{NDF}$ : 10713051.4/29

All: 157.936+/-0.025  $\chi^2/\text{NDF}$ : 22878930.0/57

# asym\_sam\_15\_avg\_mean vs Slug, Sign Corrected



Right In: 102.221+/-63.127  $\chi^2/\text{NDF}$ : 20.3/16

Left Out: 303.670+/-110.104  $\chi^2/\text{NDF}$ : 6.5/11

Right Out: 88.841+/-62.230  $\chi^2/\text{NDF}$ : 21.7/17

Left In: -191.035+/-110.066  $\chi^2/\text{NDF}$ : 17.0/10

Left: 56.232+/-77.842  $\chi^2/\text{NDF}$ : 33.7/22

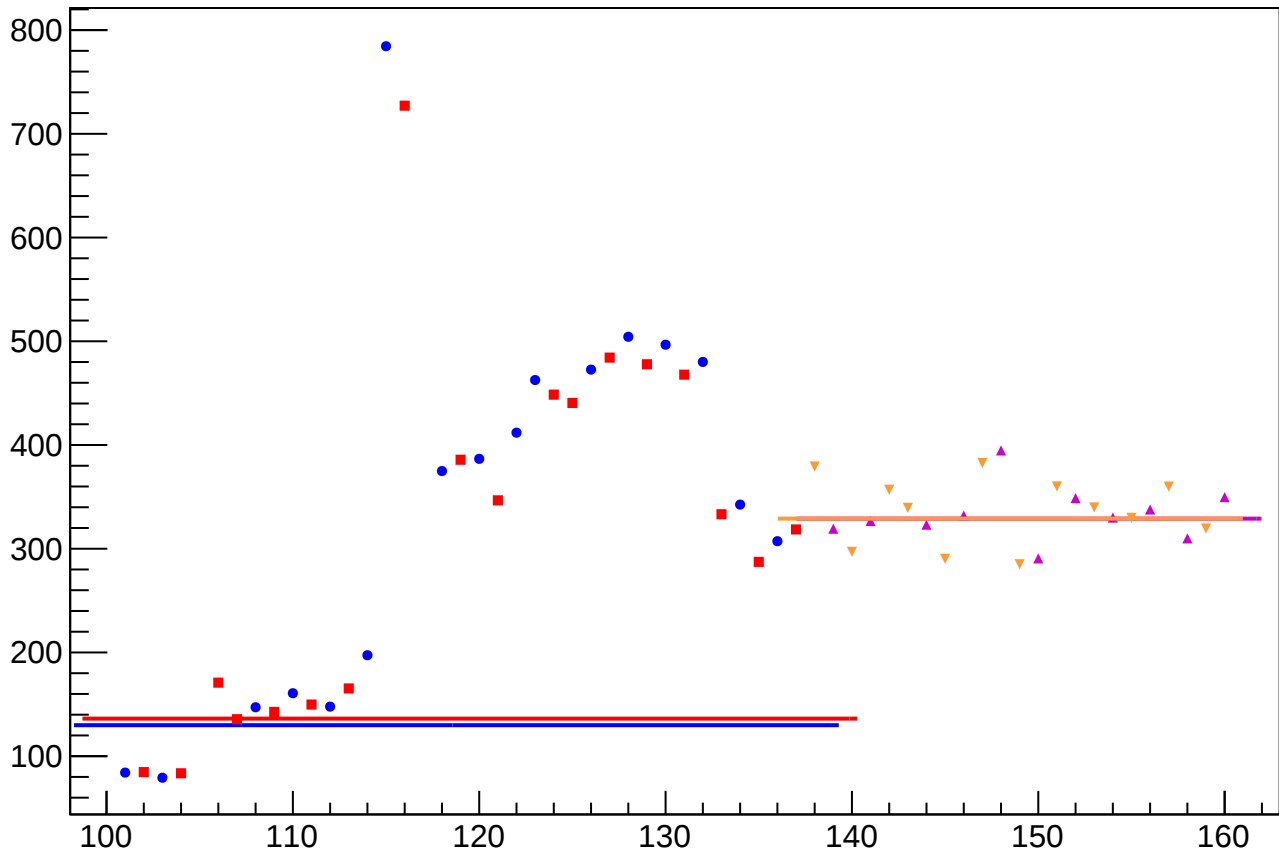
Right: 95.435+/-44.317  $\chi^2/\text{NDF}$ : 42.0/34

In: 29.632+/-54.760  $\chi^2/\text{NDF}$ : 42.6/27

Out: 140.852+/-54.176  $\chi^2/\text{NDF}$ : 31.2/29

All: 85.839+/-38.513  $\chi^2/\text{NDF}$ : 75.9/57

# asym\_sam\_15\_avg\_rms vs Slug, Sign Corrected



Right In: 129.884+/-0.045  $\chi^2/\text{NDF}$ : 4829521.2/16

Left Out: 329.045+/-0.078  $\chi^2/\text{NDF}$ : 172197.0/11

Right Out: 136.225+/-0.044  $\chi^2/\text{NDF}$ : 4282800.2/17

Left In: 329.011+/-0.078  $\chi^2/\text{NDF}$ : 94343.0/10

Left: 329.028+/-0.055  $\chi^2/\text{NDF}$ : 266540.1/22

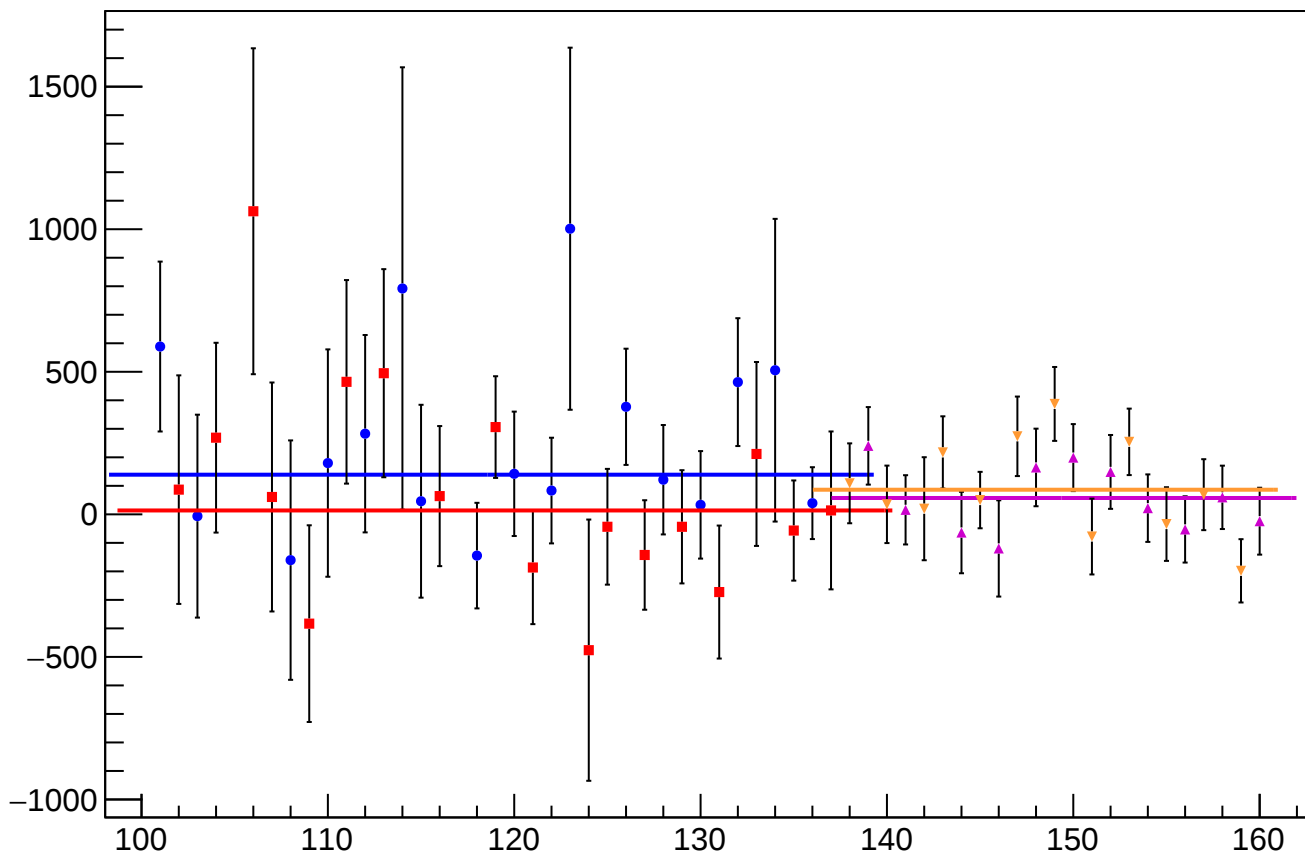
Right: 133.100+/-0.031  $\chi^2/\text{NDF}$ : 9122555.3/34

In: 179.173+/-0.039  $\chi^2/\text{NDF}$ : 9849649.5/27

Out: 182.908+/-0.038  $\chi^2/\text{NDF}$ : 9103725.4/29

All: 181.060+/-0.027  $\chi^2/\text{NDF}$ : 18958076.2/57

dit\_asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In:  $139.093 \pm 57.982$   $\chi^2/\text{NDF}: 13.1/16$

Left Out:  $86.363 \pm 36.585$   $\chi^2/\text{NDF}: 19.8/11$

Right Out:  $13.637 \pm 60.127$   $\chi^2/\text{NDF}: 16.4/17$

Left In:  $57.379 \pm 38.041$   $\chi^2/\text{NDF}: 7.8/10$

Left:  $72.437 \pm 26.369$   $\chi^2/\text{NDF}: 27.8/22$

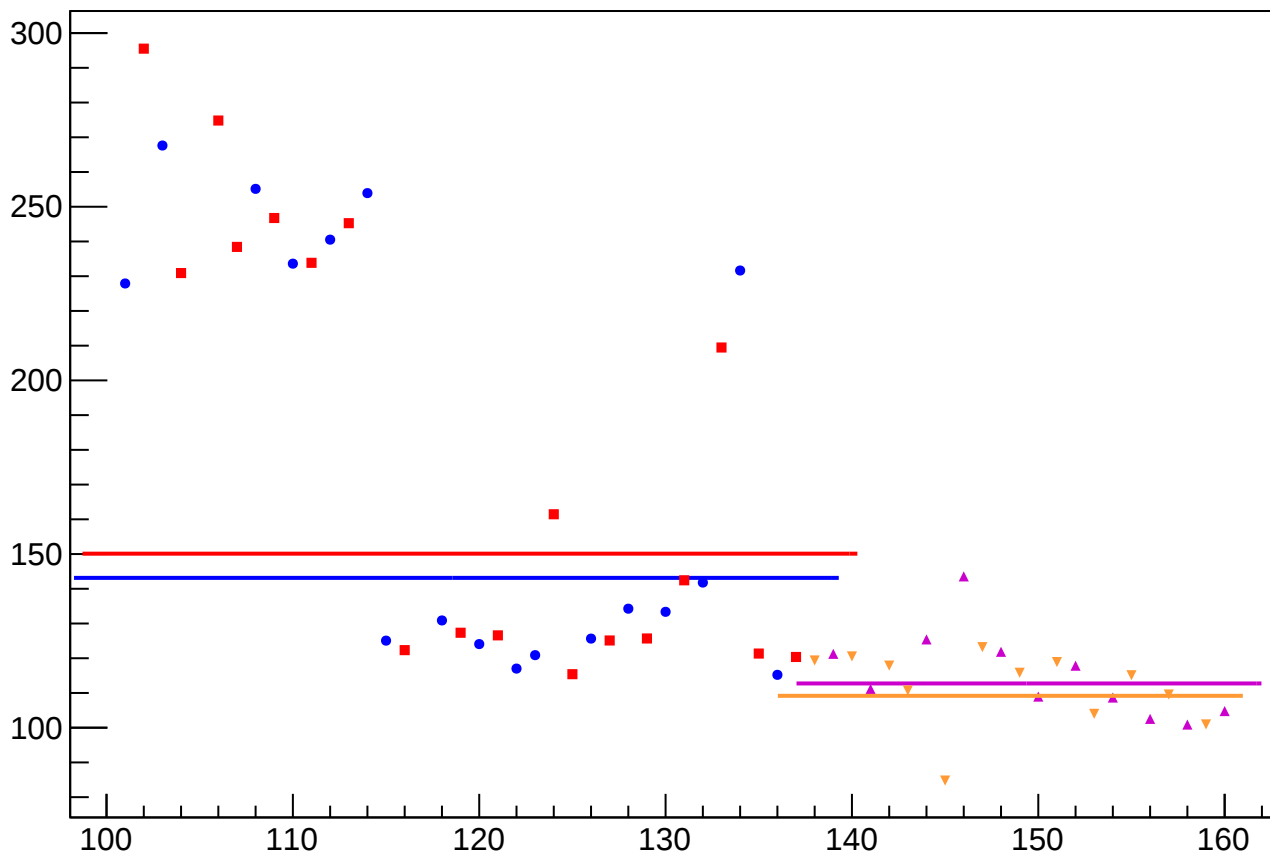
Right:  $78.643 \pm 41.737$   $\chi^2/\text{NDF}: 31.8/34$

In:  $81.969 \pm 31.807$   $\chi^2/\text{NDF}: 22.3/27$

Out:  $66.713 \pm 31.254$   $\chi^2/\text{NDF}: 37.3/29$

All:  $74.207 \pm 22.293$   $\chi^2/\text{NDF}: 59.6/57$

dit\_asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 143.140 $\pm$ 0.041  $\chi^2/\text{NDF}$ : 1101269.0/16

Left Out: 109.179 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 206364.9/11

Right Out: 150.109 $\pm$ 0.043  $\chi^2/\text{NDF}$ : 1332775.0/17

Left In: 112.740 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 154472.3/10

Left: 110.890 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 369939.2/22

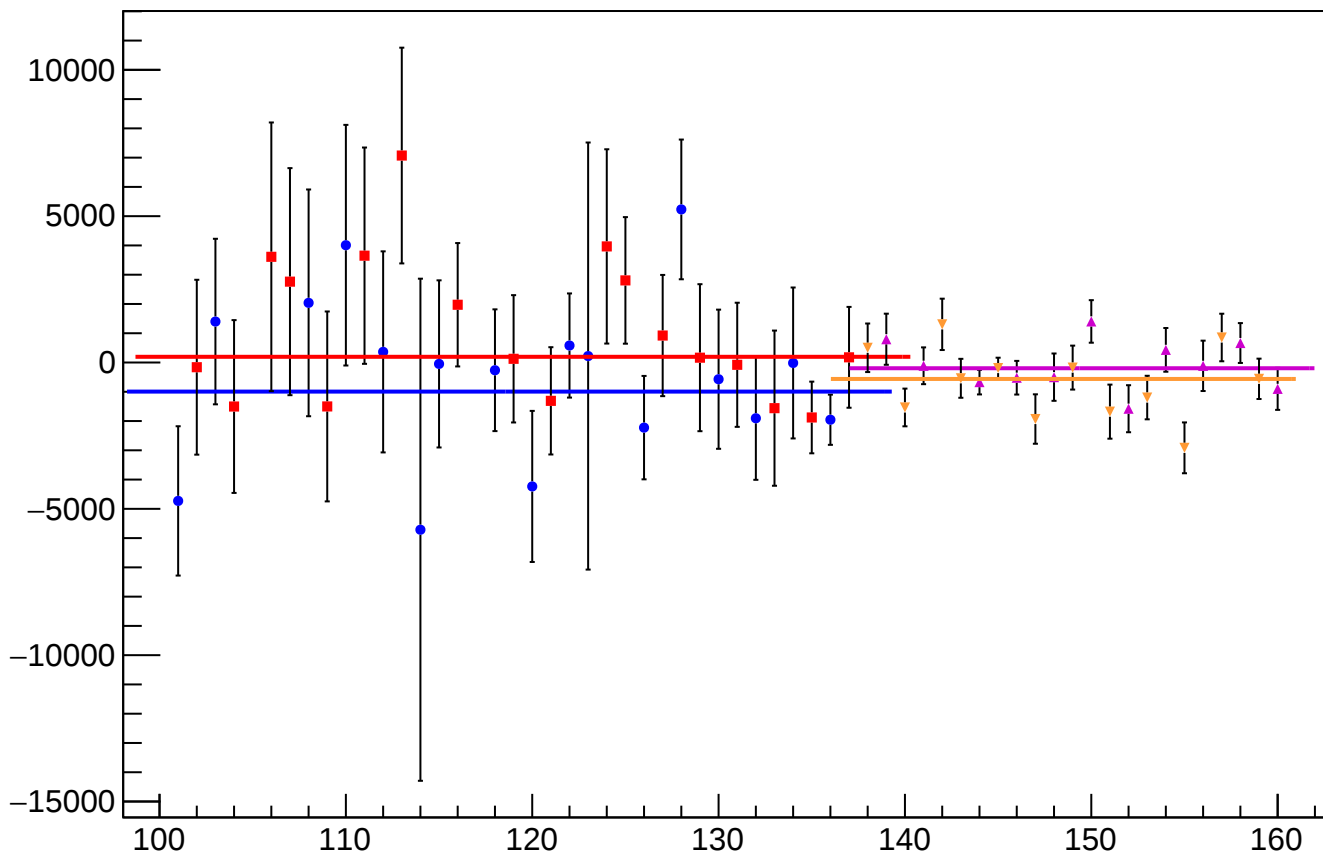
Right: 146.498 $\pm$ 0.030  $\chi^2/\text{NDF}$ : 2447968.1/34

In: 121.888 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 1640083.7/27

Out: 120.238 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 2215506.8/29

All: 121.048 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 3858327.9/57

asym\_sam\_26\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-993.785 \pm 516.463$   $\chi^2/\text{NDF}: 16.9/16$

Left Out:  $-561.867 \pm 194.167$   $\chi^2/\text{NDF}: 25.0/11$

Right Out:  $195.049 \pm 543.821$   $\chi^2/\text{NDF}: 13.5/17$

Left In:  $-195.883 \pm 201.105$   $\chi^2/\text{NDF}: 14.1/10$

Left:  $-385.297 \pm 139.685$   $\chi^2/\text{NDF}: 40.9/22$

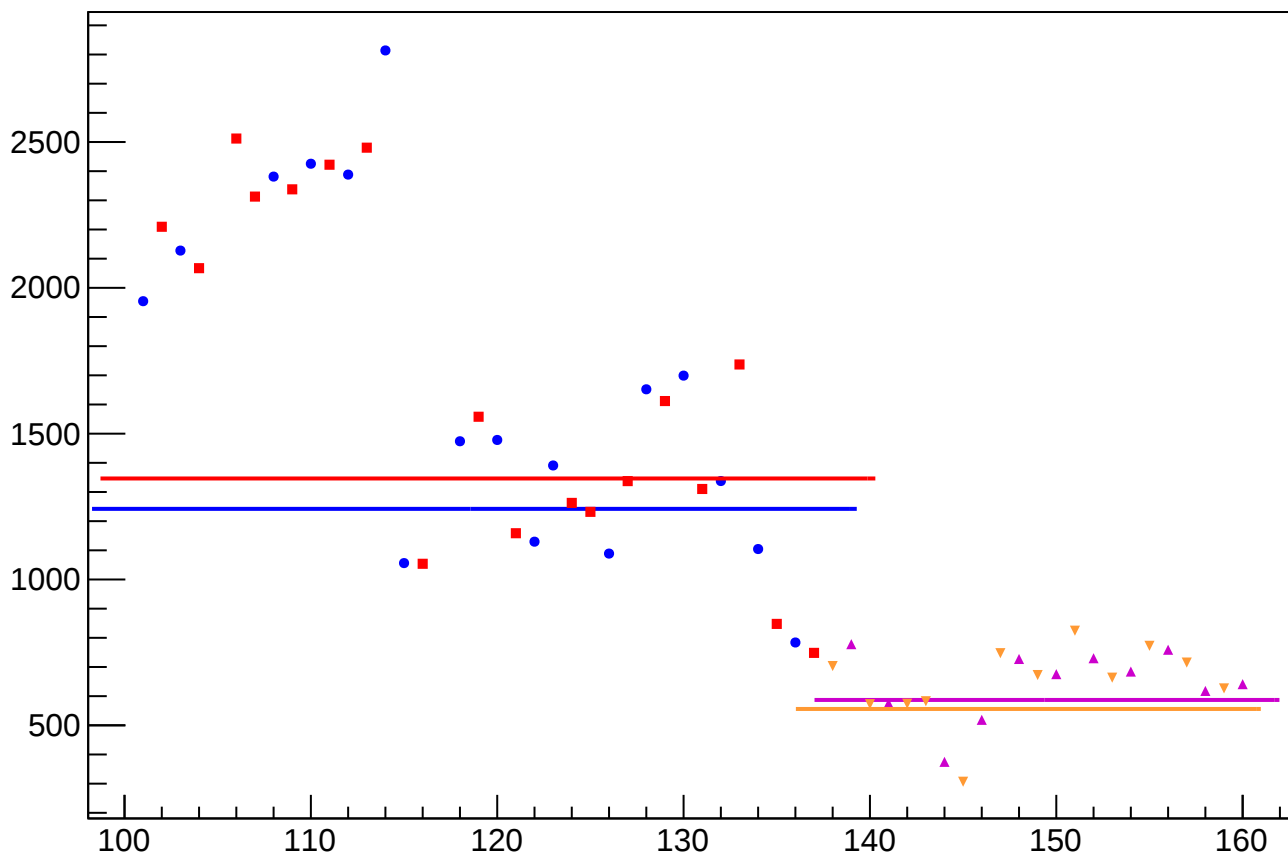
Right:  $-430.023 \pm 374.493$   $\chi^2/\text{NDF}: 33.0/34$

In:  $-300.935 \pm 187.399$   $\chi^2/\text{NDF}: 33.1/27$

Out:  $-476.286 \pm 182.861$   $\chi^2/\text{NDF}: 40.3/29$

All:  $-390.760 \pm 130.877$   $\chi^2/\text{NDF}: 73.9/57$

asym\_sam\_26\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1242.172 $\pm$ 0.365  $\chi^2$ /NDF: 1767422.8/16

Left Out: 556.086 $\pm$ 0.137  $\chi^2$ /NDF: 1647194.9/11

Right Out: 1346.340 $\pm$ 0.385  $\chi^2$ /NDF: 1809161.2/17

Left In: 586.989 $\pm$ 0.142  $\chi^2$ /NDF: 916467.7/10

Left: 570.995 $\pm$ 0.099  $\chi^2$ /NDF: 2588104.6/22

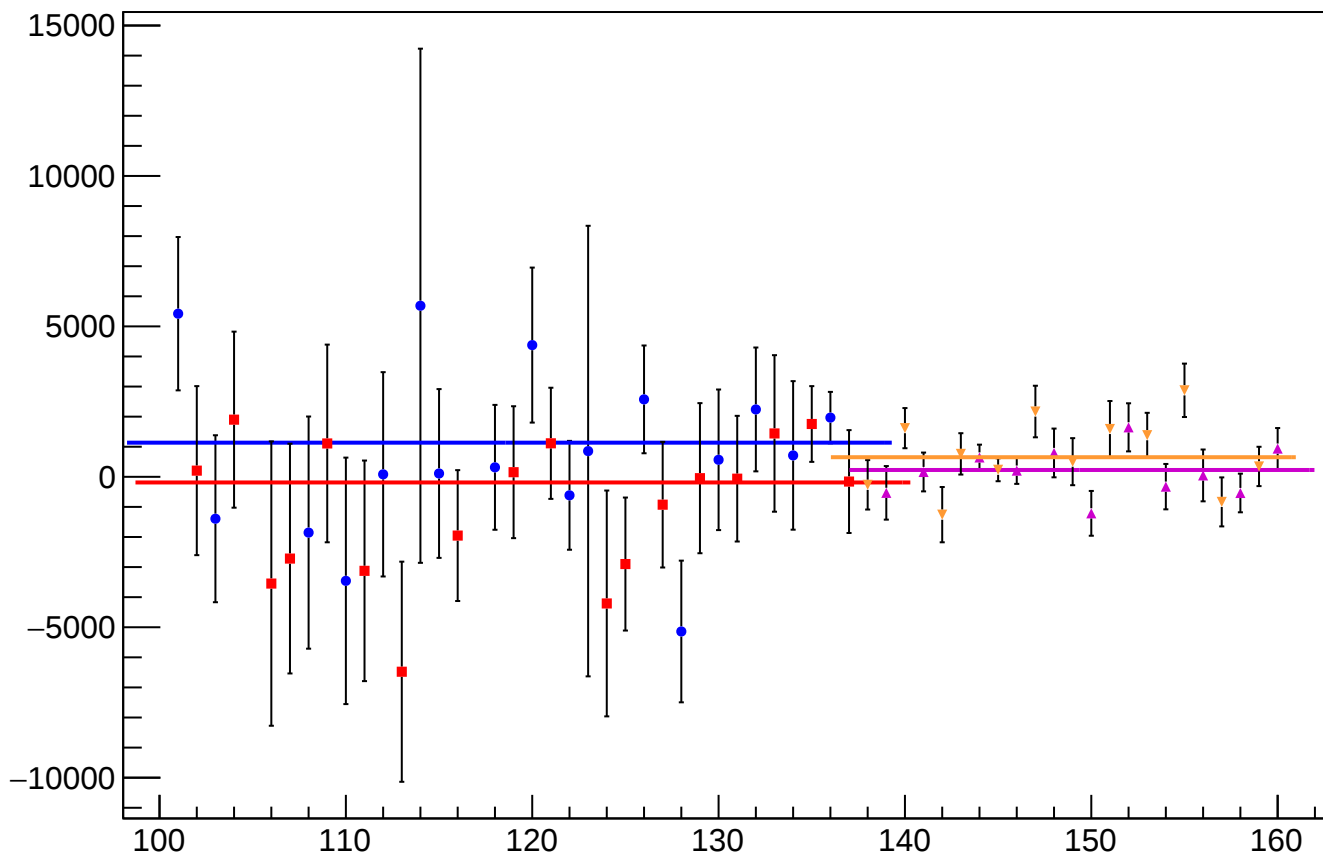
Right: 1291.570 $\pm$ 0.265  $\chi^2$ /NDF: 3615166.4/34

In: 673.251 $\pm$ 0.133  $\chi^2$ /NDF: 5478793.1/27

Out: 645.436 $\pm$ 0.129  $\chi^2$ /NDF: 7202139.3/29

All: 659.002 $\pm$ 0.093  $\chi^2$ /NDF: 12703502.3/57

asym\_sam\_26\_avg\_mean vs Slug, Sign Corrected



Right In: 1135.222 $\pm$ 513.770  $\chi^2$ /NDF: 17.8/16

Left Out: 651.726 $\pm$ 199.972  $\chi^2$ /NDF: 23.9/11

Right Out: -187.508 $\pm$ 548.191  $\chi^2$ /NDF: 12.0/17

Left In: 227.332 $\pm$ 192.812  $\chi^2$ /NDF: 12.2/10

Left: 431.795 $\pm$ 138.801  $\chi^2$ /NDF: 38.4/22

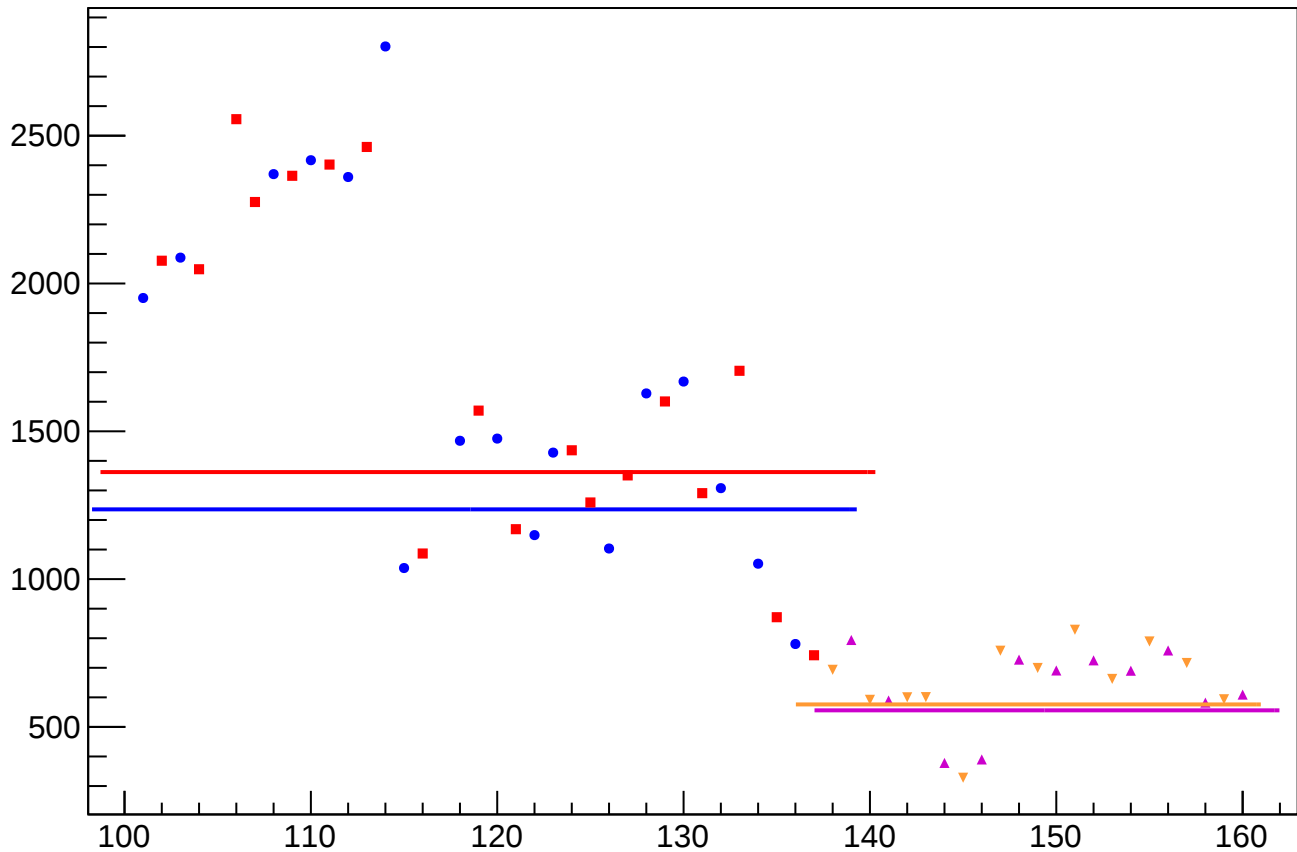
Right: 516.685 $\pm$ 374.869  $\chi^2$ /NDF: 32.9/34

In: 339.415 $\pm$ 180.518  $\chi^2$ /NDF: 32.7/27

Out: 553.166 $\pm$ 187.863  $\chi^2$ /NDF: 37.9/29

All: 442.030 $\pm$ 130.165  $\chi^2$ /NDF: 71.3/57

# asym\_sam\_26\_avg\_rms vs Slug, Sign Corrected



Right In: 1235.939 $\pm$ 0.363  $\chi^2$ /NDF: 1745716.2/16

Left Out: 576.079 $\pm$ 0.141  $\chi^2$ /NDF:1383684.8/11

Right Out: 1362.092 $\pm$ 0.388  $\chi^2$ /NDF: 1709253.2/17

Left In: 556.064 $\pm$ 0.136  $\chi^2$ /NDF:1215579.0/10

Left: 565.707 $\pm$ 0.098  $\chi^2$ /NDF: 2609647.4/22

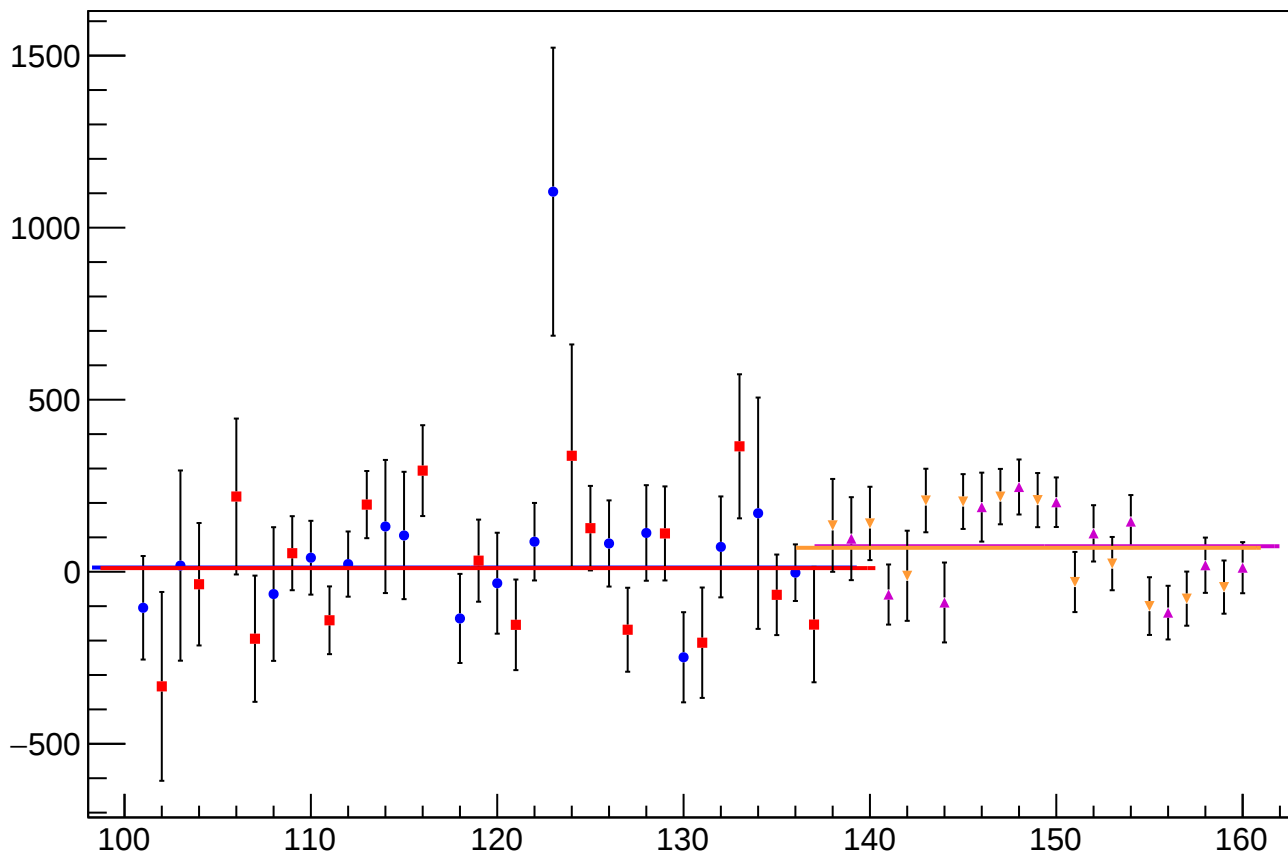
Right: 1294.931 $\pm$ 0.265  $\chi^2$ /NDF: 3511356.6/34

In: 639.997 $\pm$ 0.128  $\chi^2$ /NDF:6031199.9/27

Out: 668.389 $\pm$ 0.133  $\chi^2$ /NDF:6721787.3/29

All: 653.627 $\pm$ 0.092  $\chi^2$ /NDF: 12776738.8/57

dit\_asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 12.308 $\pm$ 33.228  $\chi^2$ /NDF: 15.4/16

Left Out: 69.623 $\pm$ 25.312  $\chi^2$ /NDF:24.1/11

Right Out: 10.591 $\pm$ 32.606  $\chi^2$ /NDF: 26.7/17

Left In: 74.182 $\pm$ 25.473  $\chi^2$ /NDF:22.0/10

Left: 71.888 $\pm$ 17.955  $\chi^2$ /NDF: 46.1/22

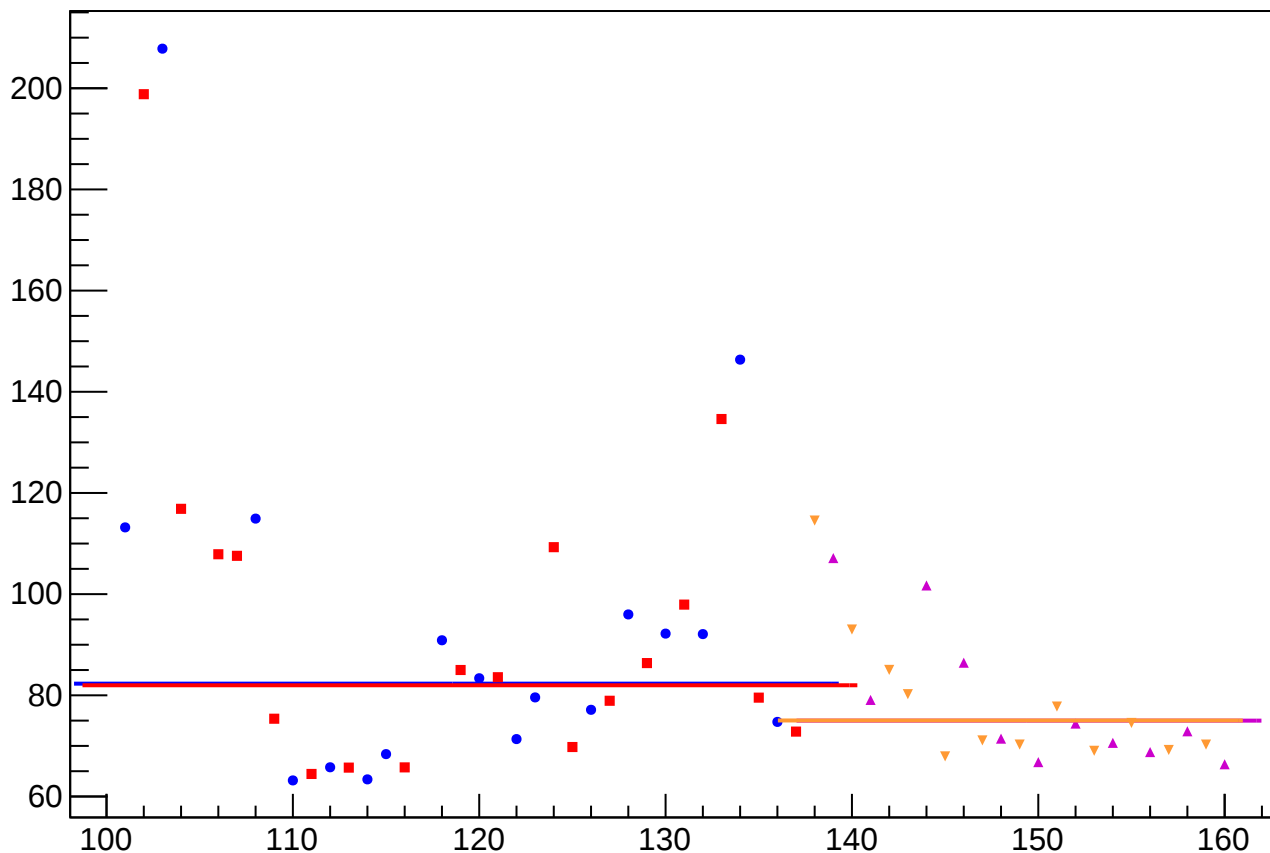
Right: 11.434 $\pm$ 23.273  $\chi^2$ /NDF: 42.1/34

In: 51.279 $\pm$ 20.216  $\chi^2$ /NDF:39.6/27

Out: 47.425 $\pm$ 19.994  $\chi^2$ /NDF:52.9/29

All: 49.331 $\pm$ 14.216  $\chi^2$ /NDF: 92.5/57

dit\_asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 82.306 $\pm$ 0.023  $\chi^2$ /NDF: 868742.4/16

Left Out: 75.029 $\pm$ 0.018  $\chi^2$ /NDF: 307056.4/11

Right Out: 81.987 $\pm$ 0.023  $\chi^2$ /NDF: 853217.2/17

Left In: 74.995 $\pm$ 0.018  $\chi^2$ /NDF: 356086.0/10

Left: 75.012 $\pm$ 0.013  $\chi^2$ /NDF: 663144.2/22

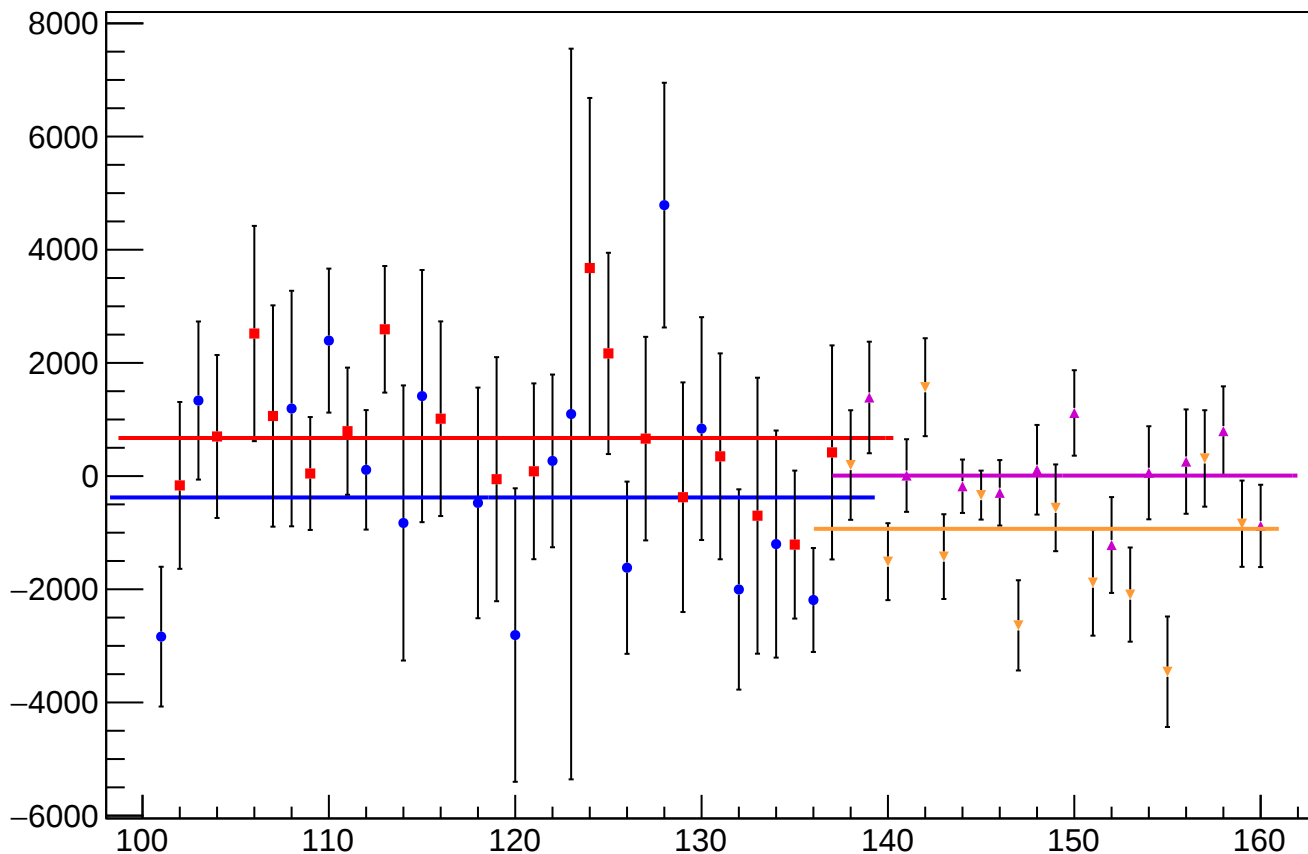
Right: 82.144 $\pm$ 0.016  $\chi^2$ /NDF: 1722053.3/34

In: 77.701 $\pm$ 0.014  $\chi^2$ /NDF: 1285811.6/27

Out: 77.645 $\pm$ 0.014  $\chi^2$ /NDF: 1217116.1/29

All: 77.673 $\pm$ 0.010  $\chi^2$ /NDF: 2502935.4/57

asym\_sam\_37\_avg\_correction\_mean vs Slug, Sign Corrected



Right In:  $-377.330 \pm 383.897$   $\chi^2/\text{NDF}: 24.5/16$

Left Out:  $-931.602 \pm 214.684$   $\chi^2/\text{NDF}: 29.4/11$

Right Out:  $673.192 \pm 368.624$   $\chi^2/\text{NDF}: 9.4/17$

Left In:  $8.882 \pm 214.045$   $\chi^2/\text{NDF}: 9.2/10$

Left:  $-459.957 \pm 151.578$   $\chi^2/\text{NDF}: 48.2/22$

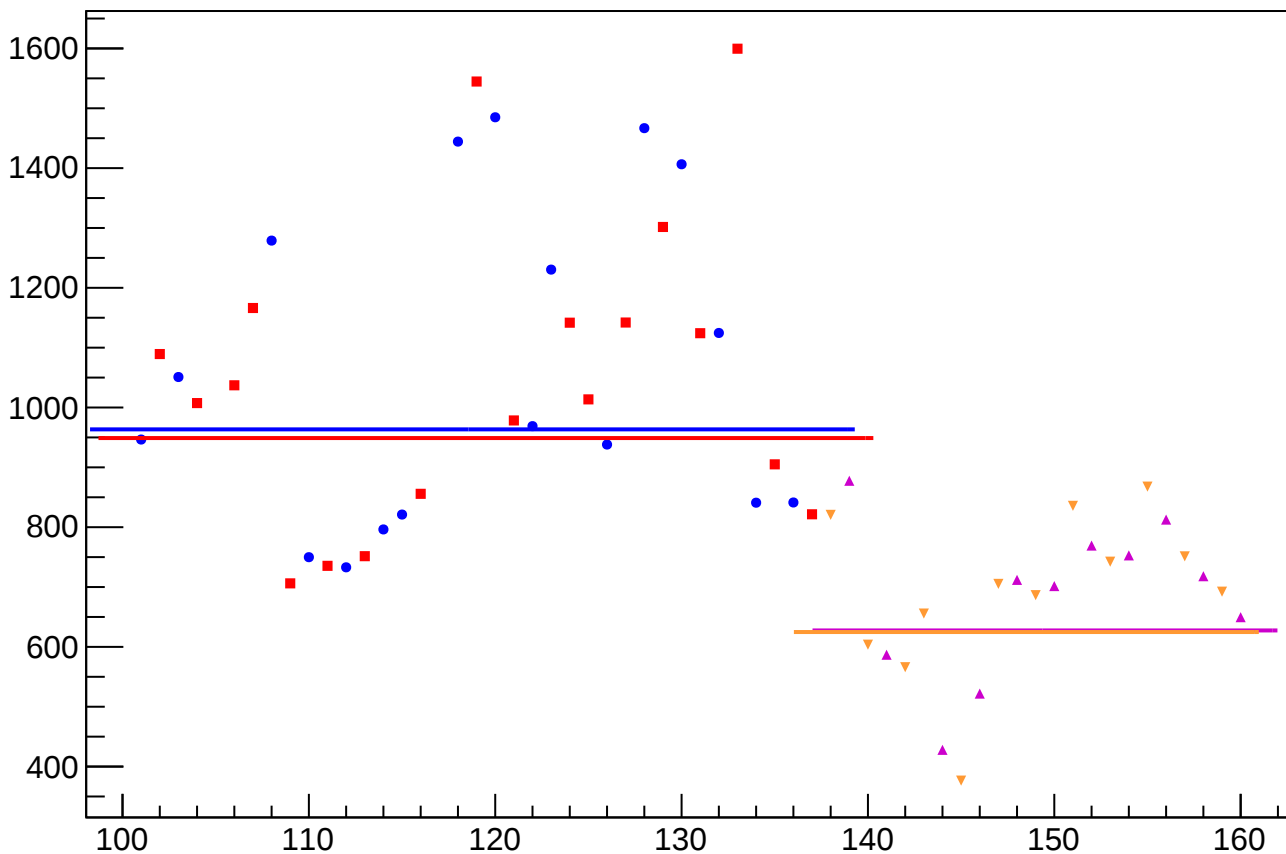
Right:  $169.244 \pm 265.892$   $\chi^2/\text{NDF}: 37.7/34$

In:  $-82.707 \pm 186.950$   $\chi^2/\text{NDF}: 34.4/27$

Out:  $-525.146 \pm 185.516$   $\chi^2/\text{NDF}: 52.9/29$

All:  $-305.630 \pm 131.683$   $\chi^2/\text{NDF}: 90.2/57$

asym\_sam\_37\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 963.469+/-0.271  $\chi^2/\text{NDF}$ : 688873.3/16

Left Out: 624.823+/-0.152  $\chi^2/\text{NDF}$ : 1113015.3/11

Right Out: 948.947+/-0.261  $\chi^2/\text{NDF}$ : 729378.3/17

Left In: 627.470+/-0.151  $\chi^2/\text{NDF}$ : 814473.2/10

Left: 626.150+/-0.107  $\chi^2/\text{NDF}$ : 1927641.0/22

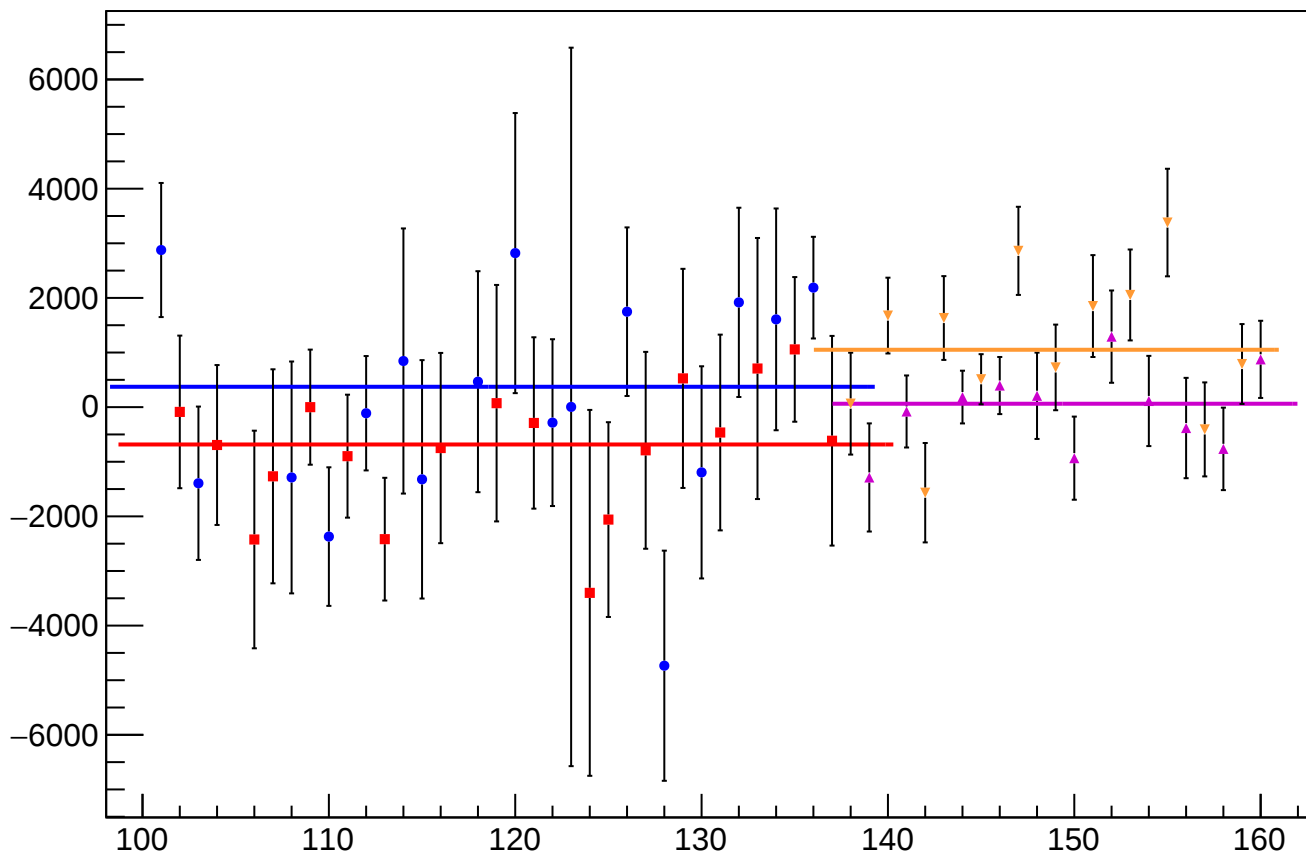
Right: 955.914+/-0.188  $\chi^2/\text{NDF}$ : 1419740.5/34

In: 707.152+/-0.132  $\chi^2/\text{NDF}$ : 2672081.8/27

Out: 706.916+/-0.131  $\chi^2/\text{NDF}$ : 2997034.8/29

All: 707.033+/-0.093  $\chi^2/\text{NDF}$ : 5669118.3/57

asym\_sam\_37\_avg\_mean vs Slug, Sign Corrected



Right In: 372.896+/-383.661  $\chi^2/\text{NDF}$ : 25.3/16

Left Out: 1050.605+/-218.810  $\chi^2/\text{NDF}$ : 28.1/11

Right Out: -683.612+/-372.418  $\chi^2/\text{NDF}$ : 7.8/17

Left In: 62.267+/-211.264  $\chi^2/\text{NDF}$ : 9.0/10

Left: 539.101+/-151.984  $\chi^2/\text{NDF}$ : 47.7/22

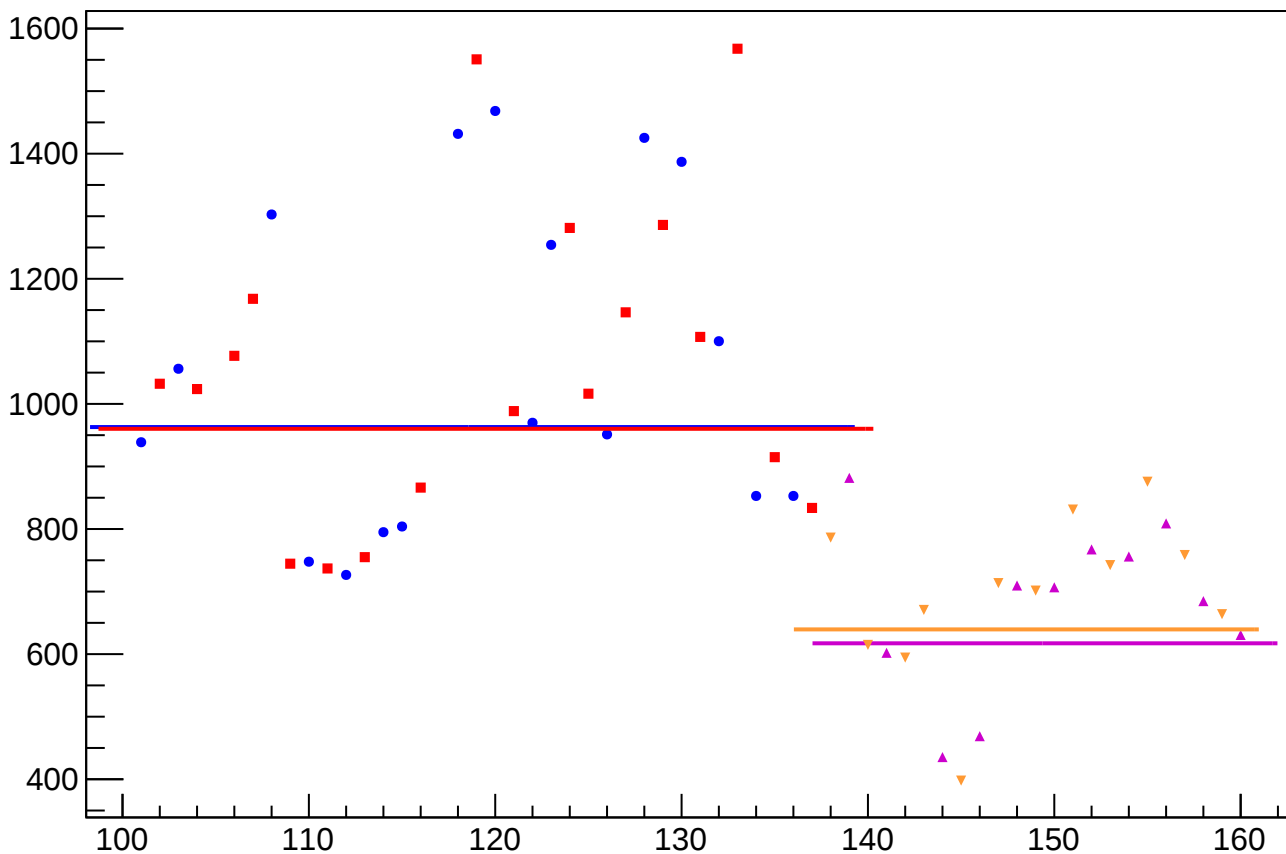
Right: -171.066+/-267.226  $\chi^2/\text{NDF}$ : 36.9/34

In: 134.541+/-185.062  $\chi^2/\text{NDF}$ : 34.8/27

Out: 605.575+/-188.657  $\chi^2/\text{NDF}$ : 52.0/29

All: 365.527+/-132.111  $\chi^2/\text{NDF}$ : 90.0/57

# asym\_sam\_37\_avg\_rms vs Slug, Sign Corrected



Right In: 962.971 $\pm$ 0.271  $\chi^2$ /NDF: 667521.9/16

Left Out: 639.530 $\pm$ 0.155  $\chi^2$ /NDF: 914538.6/11

Right Out: 960.218 $\pm$ 0.263  $\chi^2$ /NDF: 671009.3/17

Left In: 617.295 $\pm$ 0.149  $\chi^2$ /NDF: 867250.4/10

Left: 628.023 $\pm$ 0.107  $\chi^2$ /NDF: 1792477.4/22

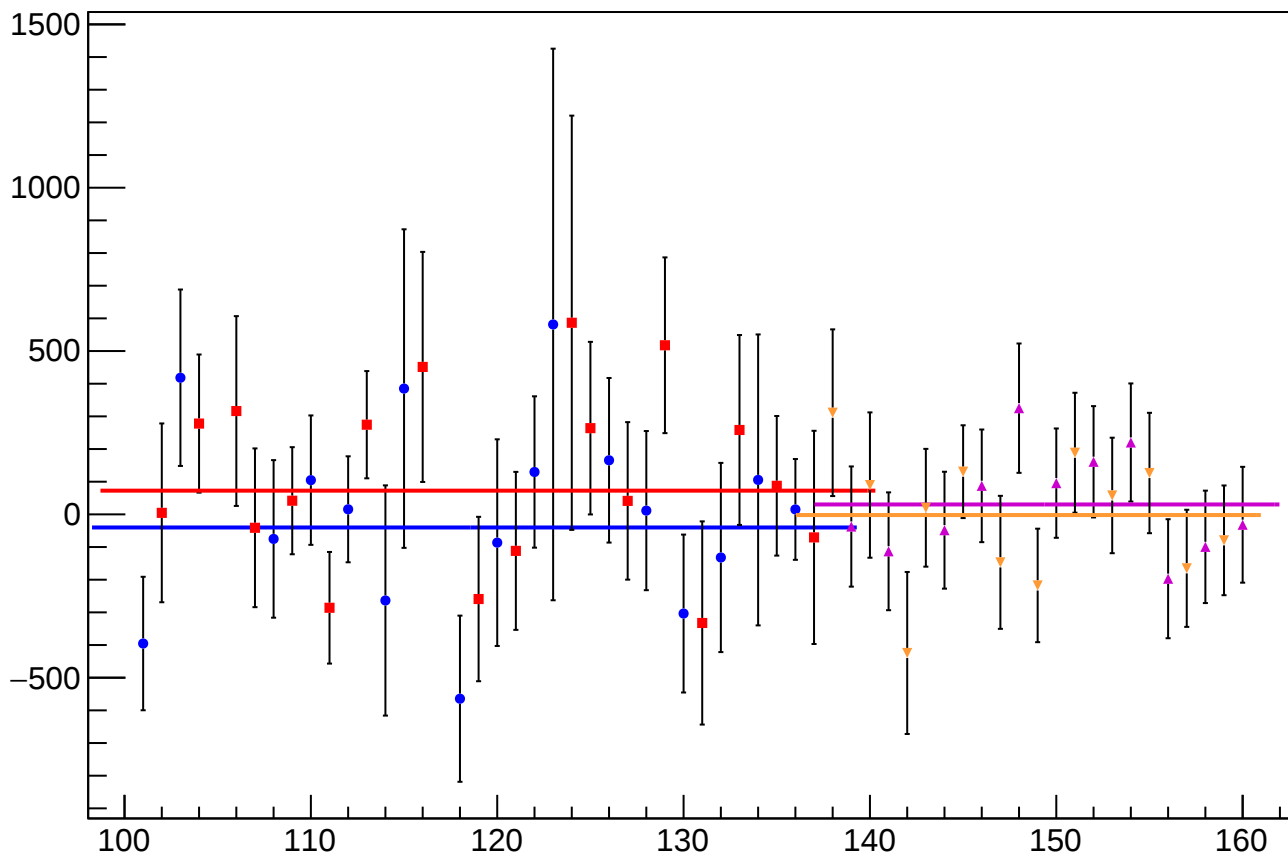
Right: 961.553 $\pm$ 0.189  $\chi^2$ /NDF: 1338584.2/34

In: 697.723 $\pm$ 0.131  $\chi^2$ /NDF: 2780586.8/27

Out: 721.824 $\pm$ 0.133  $\chi^2$ /NDF: 2687964.4/29

All: 709.542 $\pm$ 0.093  $\chi^2$ /NDF: 5485185.3/57

dit\_asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: -40.122 $\pm$ 59.256  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: -2.089 $\pm$ 53.673  $\chi^2/\text{NDF}$ : 10.2/11

Right Out: 72.607 $\pm$ 56.313  $\chi^2/\text{NDF}$ : 17.6/17

Left In: 30.335 $\pm$ 53.671  $\chi^2/\text{NDF}$ : 7.4/10

Left: 14.124 $\pm$ 37.952  $\chi^2/\text{NDF}$ : 17.8/22

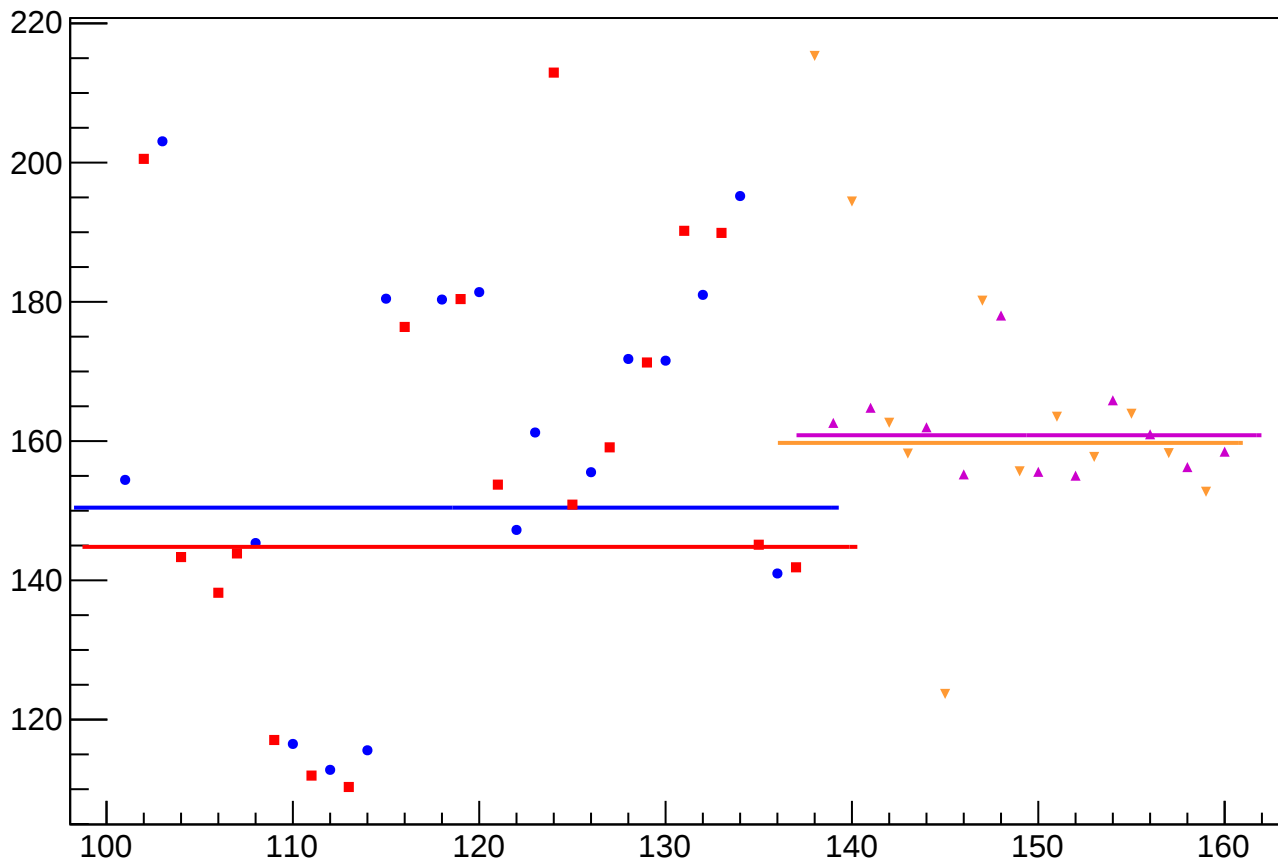
Right: 19.111 $\pm$ 40.820  $\chi^2/\text{NDF}$ : 34.8/34

In: -1.417 $\pm$ 39.779  $\chi^2/\text{NDF}$ : 23.5/27

Out: 33.467 $\pm$ 38.852  $\chi^2/\text{NDF}$ : 28.7/29

All: 16.436 $\pm$ 27.795  $\chi^2/\text{NDF}$ : 52.6/57

dit\_asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 150.442 $\pm$ 0.042  $\chi^2$ /NDF: 400121.4/16

Left Out: 159.742 $\pm$ 0.038  $\chi^2$ /NDF:299805.3/11

Right Out: 144.807 $\pm$ 0.040  $\chi^2$ /NDF: 503863.1/17

Left In: 160.842 $\pm$ 0.038  $\chi^2$ /NDF:26040.8/10

Left: 160.292 $\pm$ 0.027  $\chi^2$ /NDF: 326266.1/22

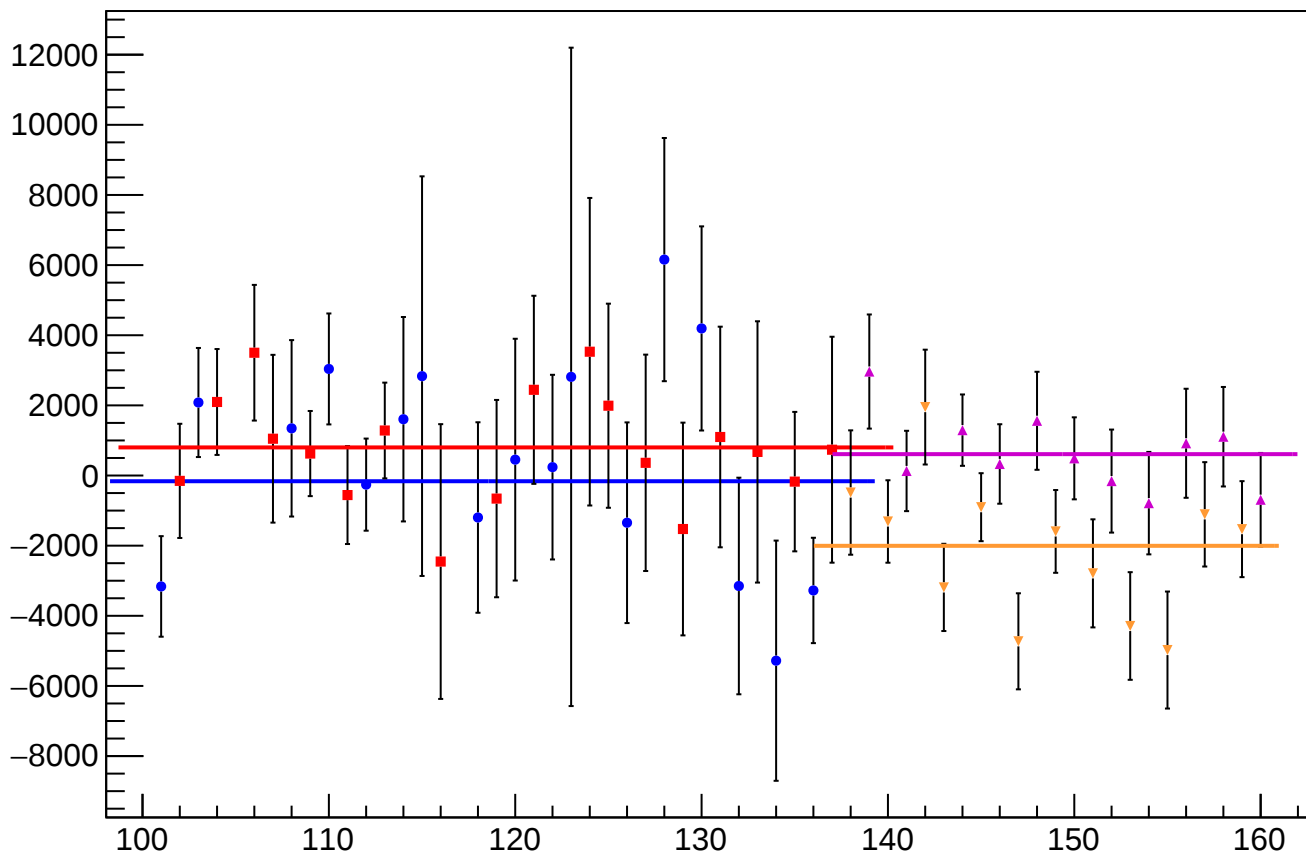
Right: 147.481 $\pm$ 0.029  $\chi^2$ /NDF: 913486.7/34

In: 156.155 $\pm$ 0.028  $\chi^2$ /NDF:460004.7/27

Out: 152.633 $\pm$ 0.027  $\chi^2$ /NDF:877377.0/29

All: 154.352 $\pm$ 0.020  $\chi^2$ /NDF: 1345405.7/57

asym\_sam\_48\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -162.807+/-533.165  $\chi^2/\text{NDF}$ : 25.1/16

Left Out: -2004.495+/-390.214  $\chi^2/\text{NDF}$ :19.3/11

Right Out: 801.139+/-486.610  $\chi^2/\text{NDF}$ : 6.9/17

Left In: 609.480+/-391.248  $\chi^2/\text{NDF}$ :5.6/10

Left: -700.966+/-276.288  $\chi^2/\text{NDF}$ : 47.3/22

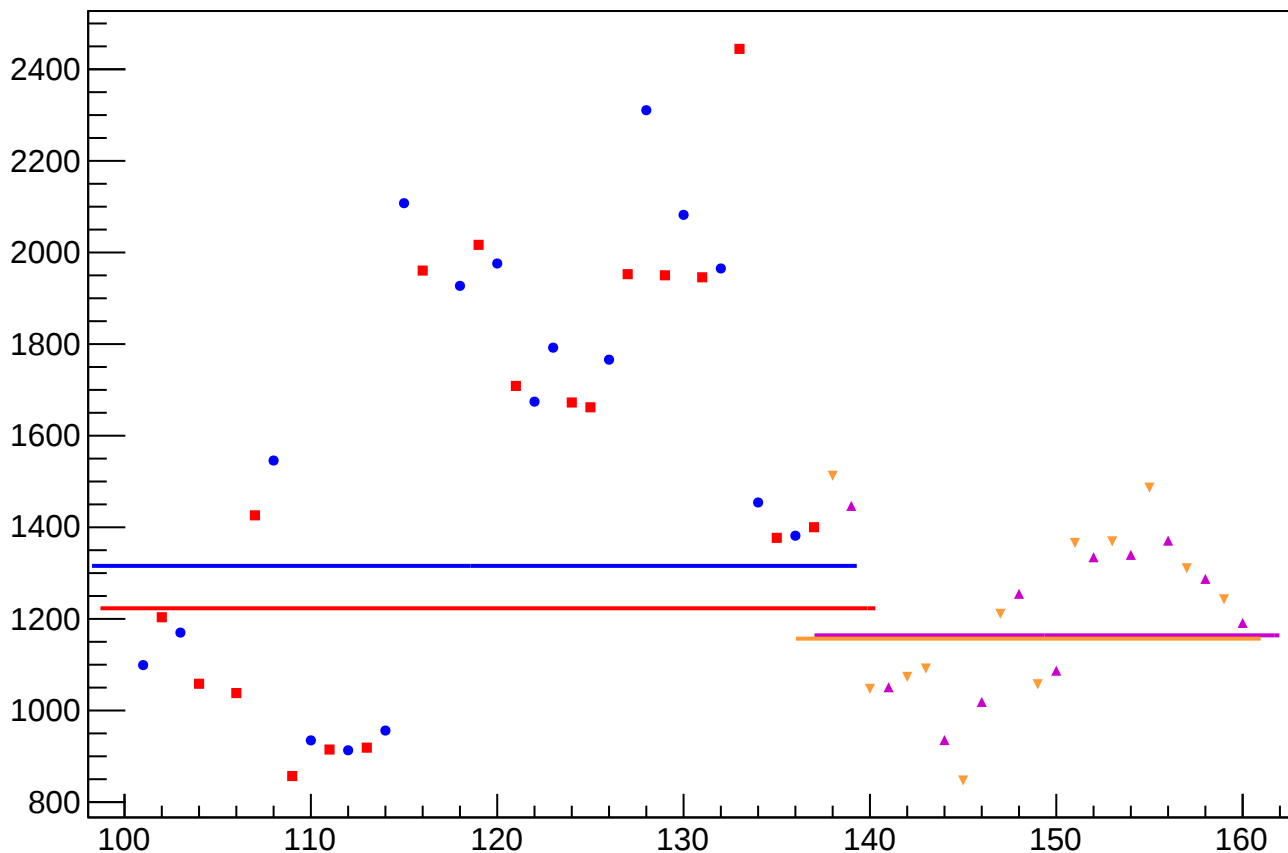
Right: 363.081+/-359.419  $\chi^2/\text{NDF}$ : 33.7/34

In: 339.169+/-315.431  $\chi^2/\text{NDF}$ :32.0/27

Out: -906.439+/-304.423  $\chi^2/\text{NDF}$ :46.4/29

All: -305.748+/-219.048  $\chi^2/\text{NDF}$ : 86.5/57

asym\_sam\_48\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1315.784 $\pm$ 0.377  $\chi^2$ /NDF: 1118346.6/16

Left Out: 1156.923 $\pm$ 0.276  $\chi^2$ /NDF: 512395.3/11

Right Out: 1223.179 $\pm$ 0.344  $\chi^2$ /NDF: 1363055.0/17

Left In: 1164.112 $\pm$ 0.277  $\chi^2$ /NDF: 338068.2/10

Left: 1160.508 $\pm$ 0.195  $\chi^2$ /NDF: 850802.1/22

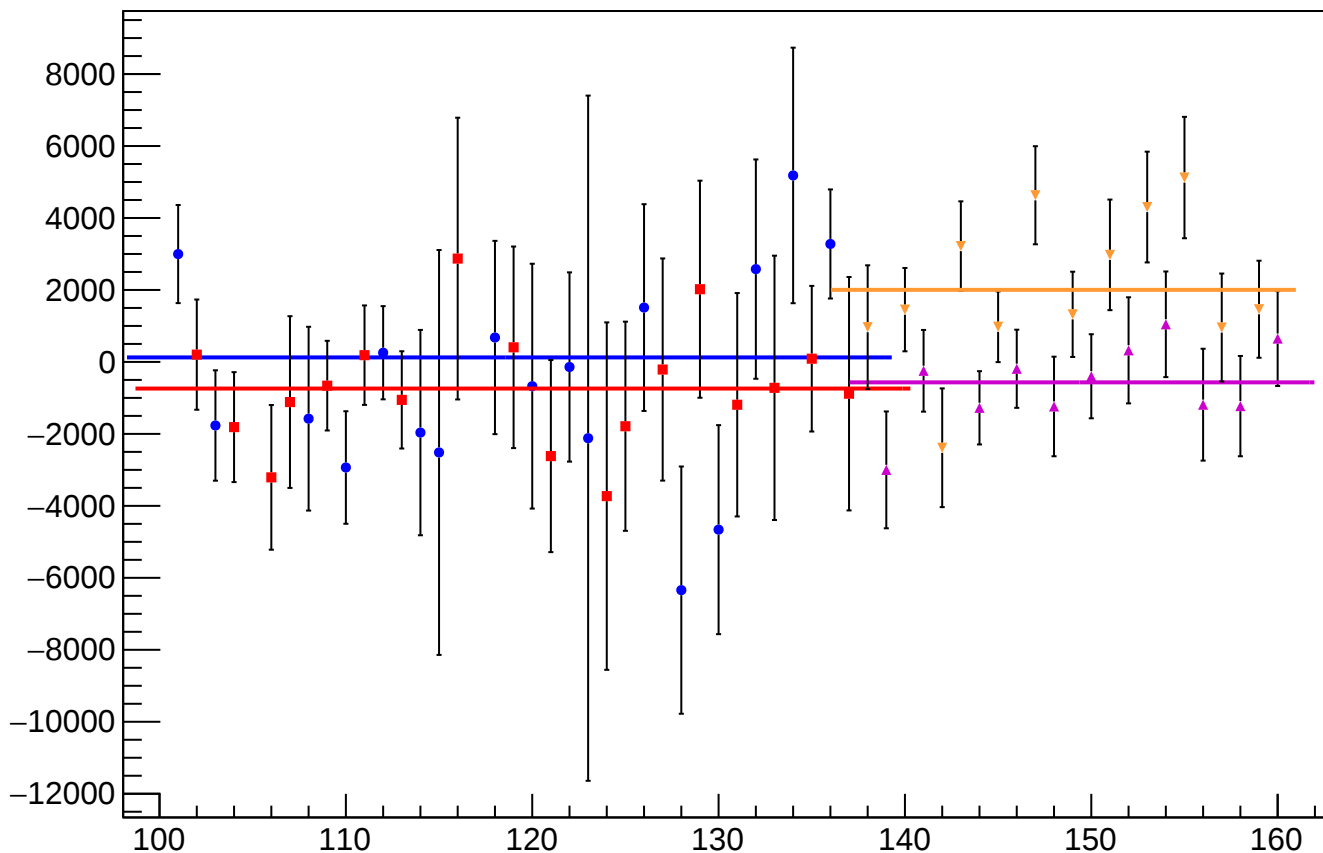
Right: 1265.263 $\pm$ 0.254  $\chi^2$ /NDF: 2514318.9/34

In: 1217.200 $\pm$ 0.223  $\chi^2$ /NDF: 1561616.3/27

Out: 1182.854 $\pm$ 0.215  $\chi^2$ /NDF: 1898016.9/29

All: 1199.417 $\pm$ 0.155  $\chi^2$ /NDF: 3471910.5/57

asym\_sam\_48\_avg\_mean vs Slug, Sign Corrected



Right In: 125.377+/-526.801  $\chi^2/\text{NDF}$ : 24.7/16

Left Out: 2003.072+/-389.933  $\chi^2/\text{NDF}$ : 20.5/11

Right Out: -739.954+/-486.808  $\chi^2/\text{NDF}$ : 6.0/17

Left In: -567.825+/-387.729  $\chi^2/\text{NDF}$ : 6.0/10

Left: 710.335+/-274.942  $\chi^2/\text{NDF}$ : 48.3/22

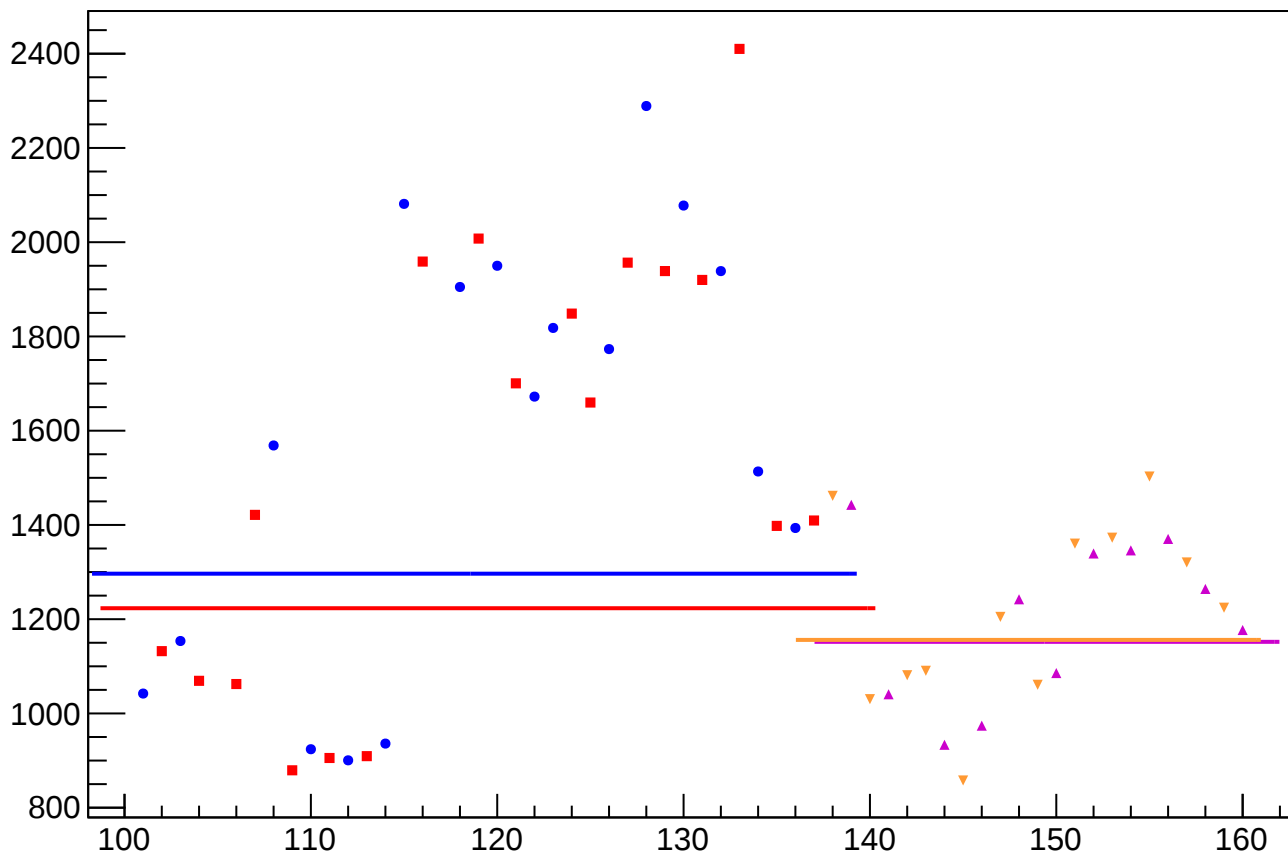
Right: -341.379+/-357.529  $\chi^2/\text{NDF}$ : 32.1/34

In: -324.257+/-312.268  $\chi^2/\text{NDF}$ : 31.8/27

Out: 930.991+/-304.338  $\chi^2/\text{NDF}$ : 45.8/29

All: 319.507+/-217.949  $\chi^2/\text{NDF}$ : 85.9/57

# asym\_sam\_48\_avg\_rms vs Slug, Sign Corrected



Right In: 1296.573+/-0.373  $\chi^2/\text{NDF}$ : 1175465.2/16

Left Out: 1156.048+/-0.276  $\chi^2/\text{NDF}$ : 485015.6/11

Right Out: 1223.274+/-0.344  $\chi^2/\text{NDF}$ : 1346689.2/17

Left In: 1151.953+/-0.274  $\chi^2/\text{NDF}$ : 364567.3/10

Left: 1153.989+/-0.194  $\chi^2/\text{NDF}$ : 849693.9/22

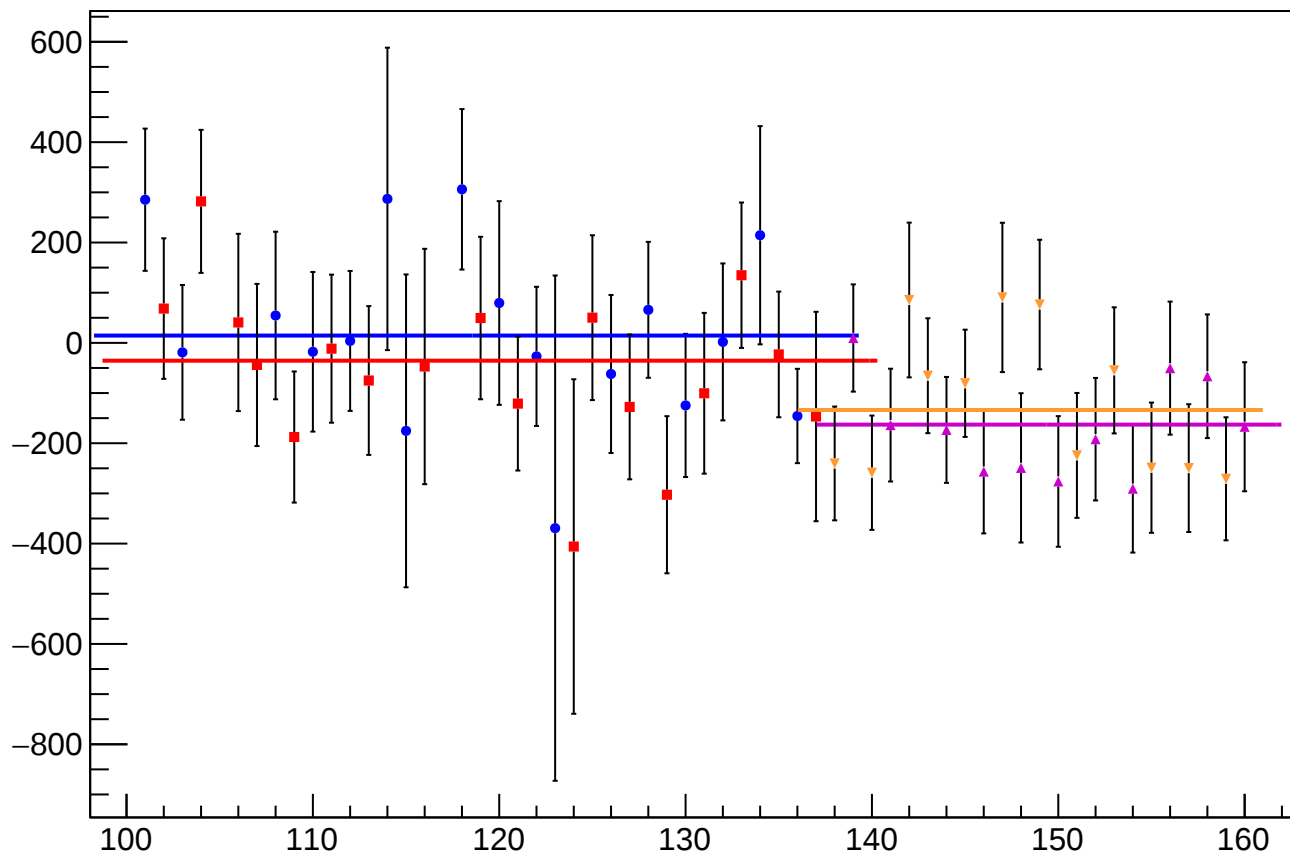
Right: 1257.036+/-0.253  $\chi^2/\text{NDF}$ : 2543039.6/34

In: 1202.768+/-0.221  $\chi^2/\text{NDF}$ : 1637800.3/27

Out: 1182.323+/-0.215  $\chi^2/\text{NDF}$ : 1854939.1/29

All: 1192.282+/-0.154  $\chi^2/\text{NDF}$ : 3497136.3/57

# dit\_asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 14.577 $\pm$ 38.017  $\chi^2/\text{NDF}$ : 14.2/16

Left Out: -133.794 $\pm$ 35.775  $\chi^2/\text{NDF}$ :13.4/11

Right Out: -35.475 $\pm$ 36.728  $\chi^2/\text{NDF}$ : 14.5/17

Left In: -162.888 $\pm$ 36.798  $\chi^2/\text{NDF}$ :6.7/10

Left: -147.931 $\pm$ 25.651  $\chi^2/\text{NDF}$ : 20.4/22

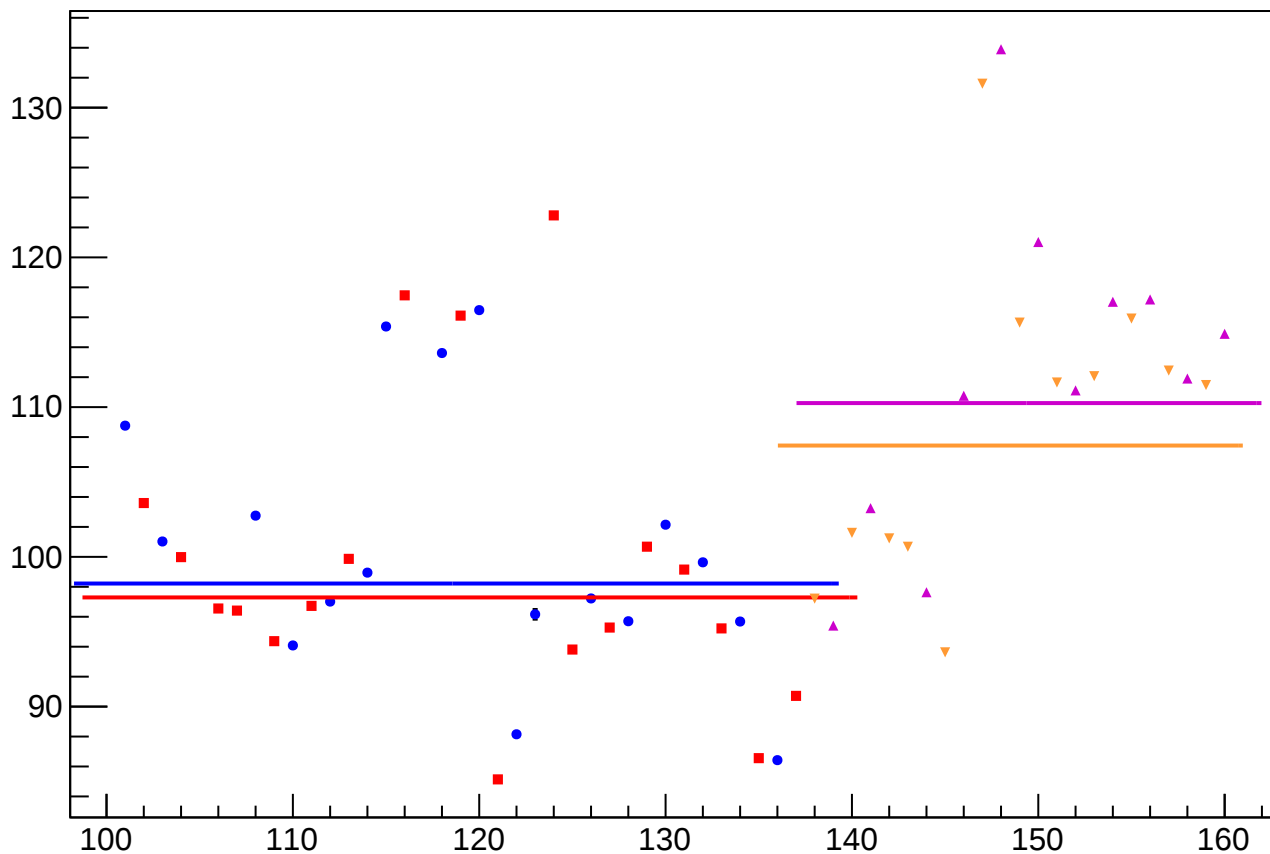
Right: -11.312 $\pm$ 26.414  $\chi^2/\text{NDF}$ : 29.6/34

In: -77.045 $\pm$ 26.441  $\chi^2/\text{NDF}$ :32.1/27

Out: -85.927 $\pm$ 25.627  $\chi^2/\text{NDF}$ :31.6/29

All: -81.625 $\pm$ 18.402  $\chi^2/\text{NDF}$ : 63.8/57

dit\_asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 98.219+/-0.027  $\chi^2/\text{NDF}$ : 100510.4/16

Left Out: 107.434+/-0.025  $\chi^2/\text{NDF}$ : 144741.0/11

Right Out: 97.290+/-0.026  $\chi^2/\text{NDF}$ : 96216.6/17

Left In: 110.270+/-0.026  $\chi^2/\text{NDF}$ : 153379.8/10

Left: 108.812+/-0.018  $\chi^2/\text{NDF}$ : 304227.5/22

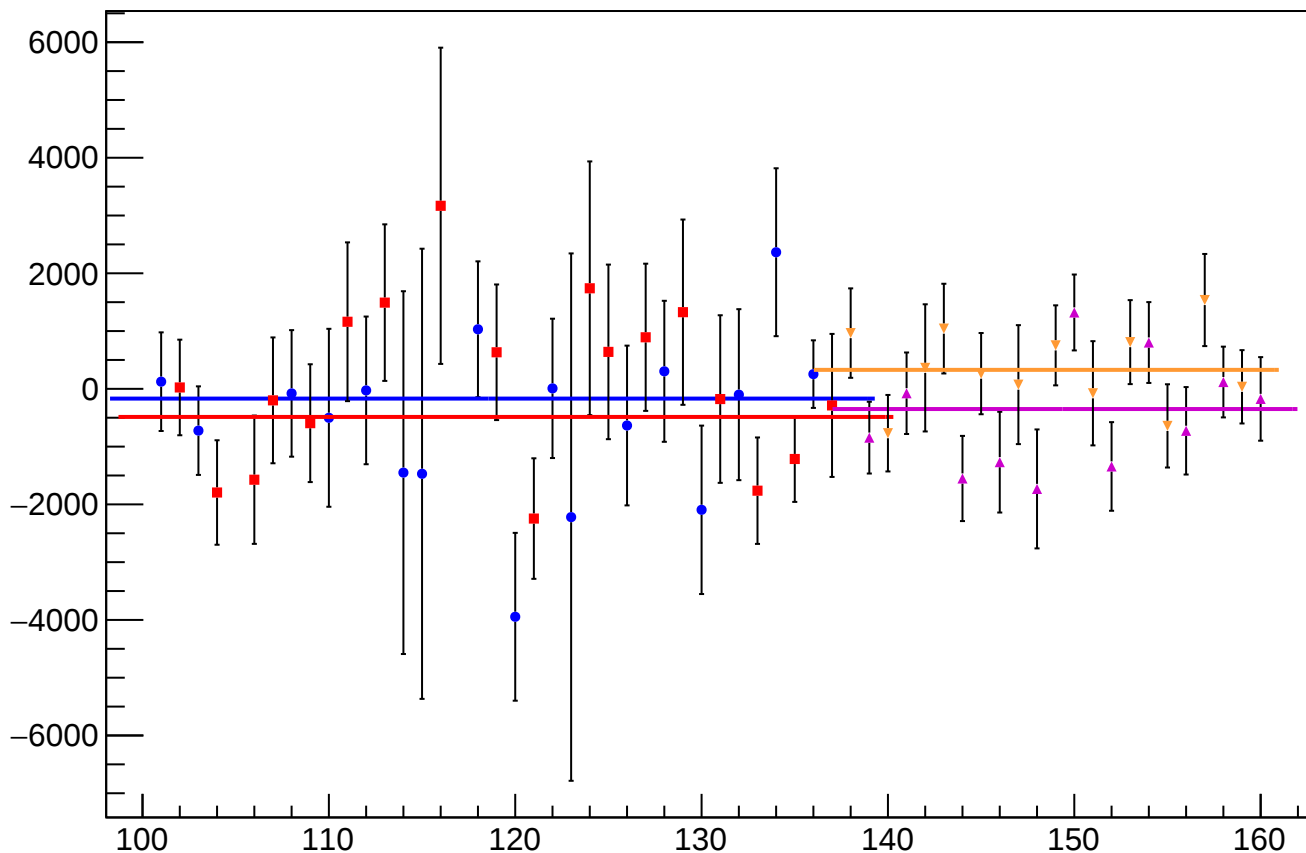
Right: 97.739+/-0.019  $\chi^2/\text{NDF}$ : 197344.2/34

In: 104.441+/-0.019  $\chi^2/\text{NDF}$ : 357645.9/27

Out: 102.496+/-0.018  $\chi^2/\text{NDF}$ : 319241.2/29

All: 103.438+/-0.013  $\chi^2/\text{NDF}$ : 682468.3/57

asym\_sam\_15\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-168.802 \pm 282.178$   $\chi^2/\text{NDF}: 14.6/16$

Left Out:  $328.469 \pm 220.386$   $\chi^2/\text{NDF}: 9.7/11$

Right Out:  $-486.312 \pm 268.010$   $\chi^2/\text{NDF}: 19.6/17$

Left In:  $-349.577 \pm 217.798$   $\chi^2/\text{NDF}: 18.1/10$

Left:  $-14.558 \pm 154.913$   $\chi^2/\text{NDF}: 32.6/22$

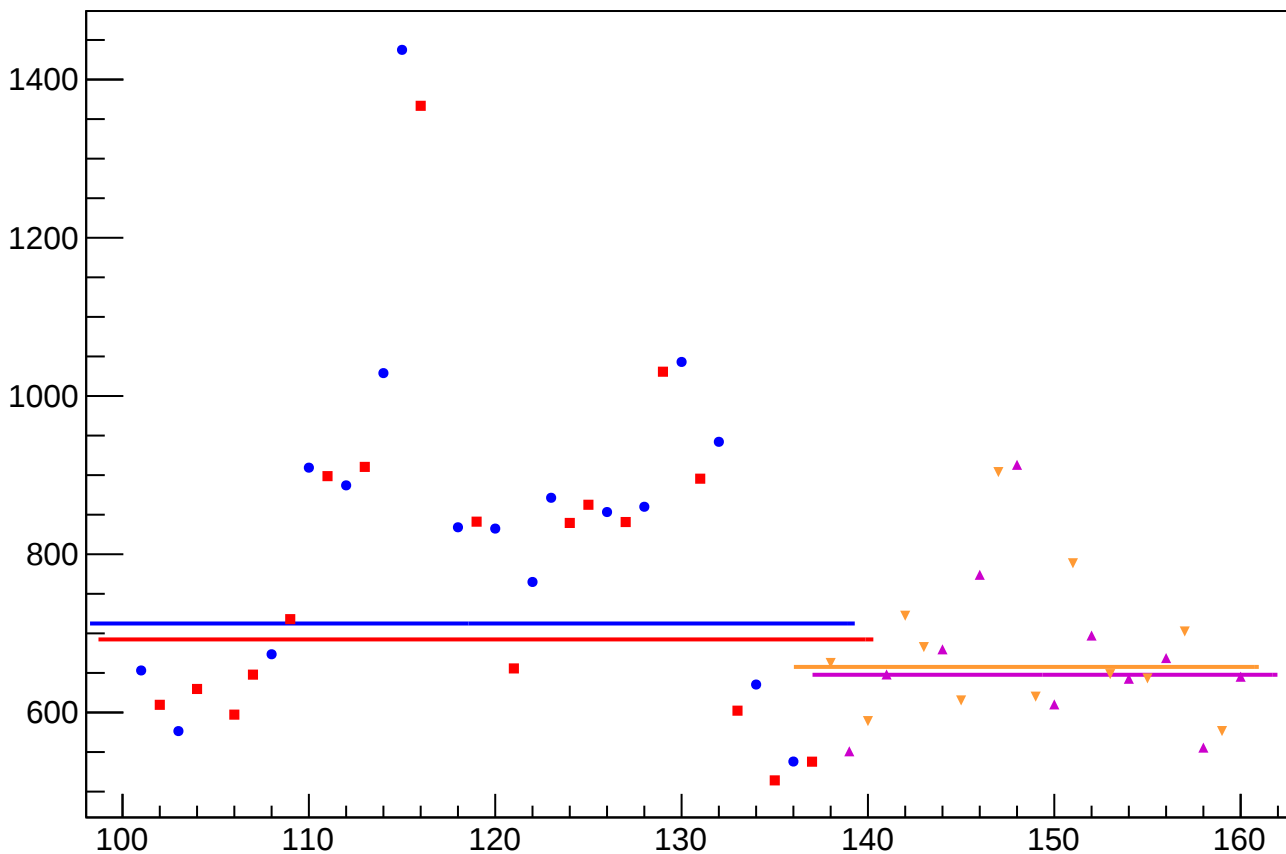
Right:  $-335.728 \pm 194.327$   $\chi^2/\text{NDF}: 34.9/34$

In:  $-282.088 \pm 172.414$   $\chi^2/\text{NDF}: 33.0/27$

Out:  $-0.220 \pm 170.225$   $\chi^2/\text{NDF}: 34.8/29$

All:  $-139.353 \pm 121.133$   $\chi^2/\text{NDF}: 69.1/57$

asym\_sam\_15\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 712.476 $\pm$ 0.200  $\chi^2$ /NDF: 660520.6/16

Left Out: 657.600 $\pm$ 0.156  $\chi^2$ /NDF: 240302.9/11

Right Out: 692.342 $\pm$ 0.190  $\chi^2$ /NDF: 656953.1/17

Left In: 647.666 $\pm$ 0.154  $\chi^2$ /NDF: 288891.9/10

Left: 652.575 $\pm$ 0.110  $\chi^2$ /NDF: 531250.4/22

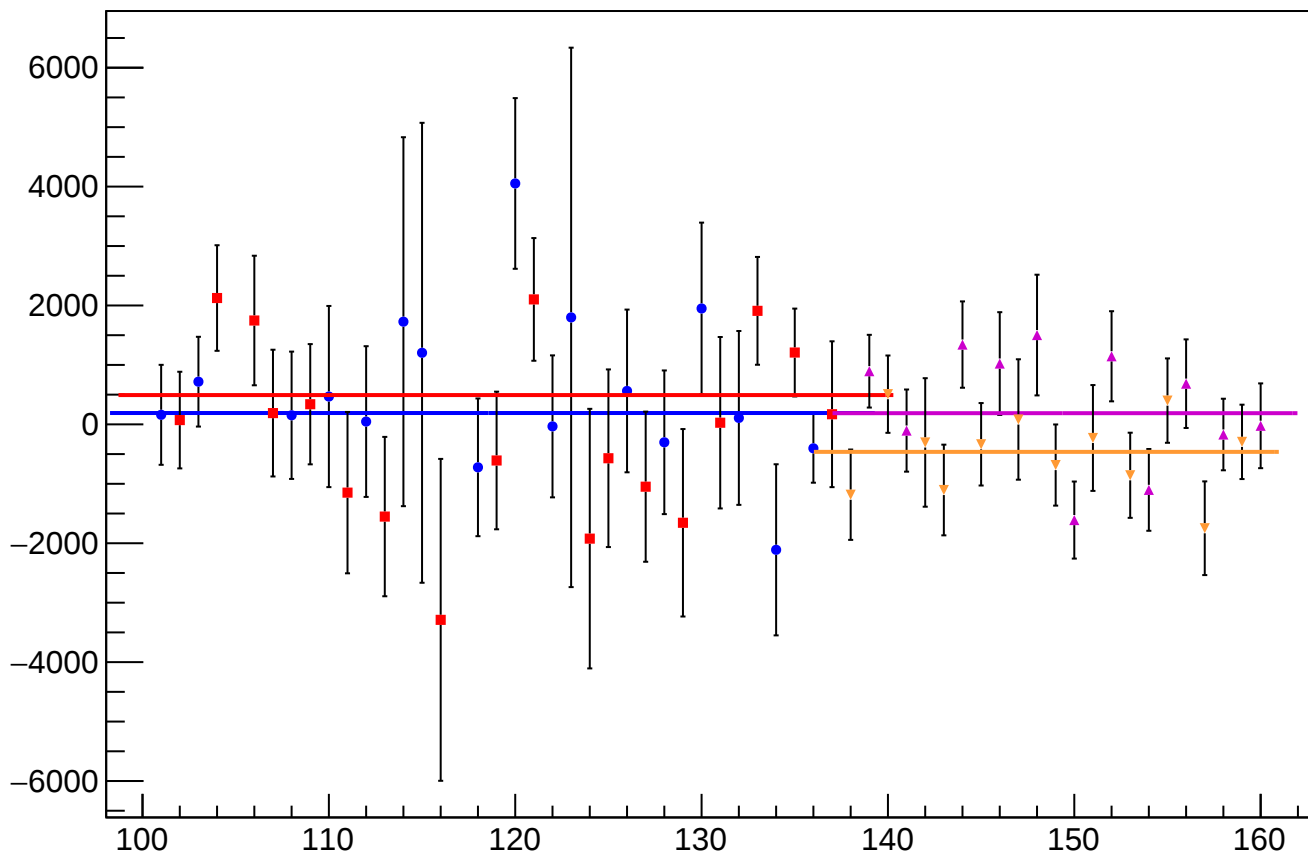
Right: 701.891 $\pm$ 0.137  $\chi^2$ /NDF: 1322826.7/34

In: 671.862 $\pm$ 0.122  $\chi^2$ /NDF: 1015527.0/27

Out: 671.615 $\pm$ 0.120  $\chi^2$ /NDF: 917306.1/29

All: 671.737 $\pm$ 0.086  $\chi^2$ /NDF: 1932835.2/57

# asym\_sam\_15\_dd\_mean vs Slug, Sign Corrected



Right In: 190.880 $\pm$ 278.670  $\chi^2$ /NDF: 14.2/16

Left Out: -462.681 $\pm$ 217.038  $\chi^2$ /NDF:8.9/11

Right Out: 492.784 $\pm$ 264.629  $\chi^2$ /NDF: 22.8/17

Left In: 188.109 $\pm$ 214.527  $\chi^2$ /NDF:20.3/10

Left: -133.500 $\pm$ 152.573  $\chi^2$ /NDF: 33.7/22

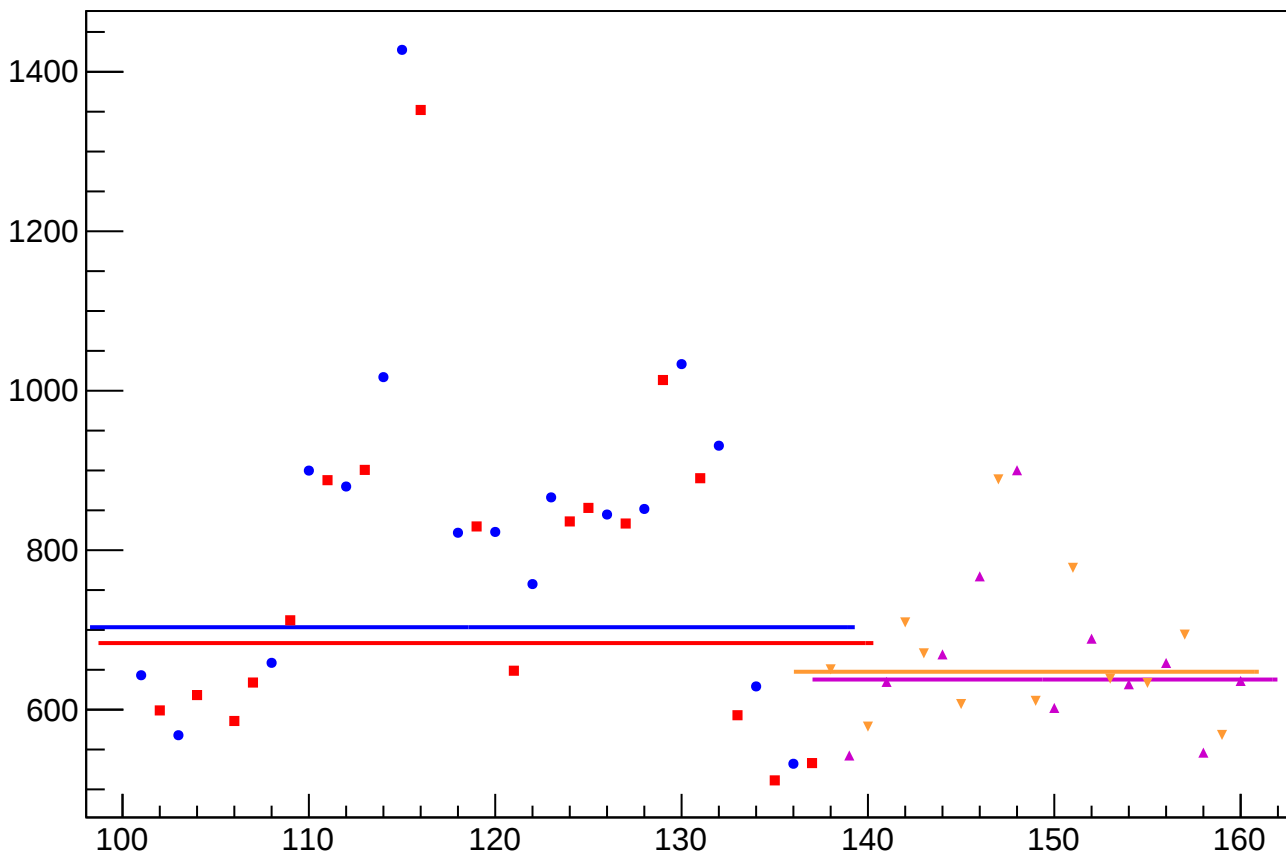
Right: 349.629 $\pm$ 191.893  $\chi^2$ /NDF: 37.6/34

In: 189.140 $\pm$ 169.990  $\chi^2$ /NDF:34.5/27

Out: -78.442 $\pm$ 167.815  $\chi^2$ /NDF:39.4/29

All: 53.626 $\pm$ 119.425  $\chi^2$ /NDF: 75.2/57

# asym\_sam\_15\_dd\_rms vs Slug, Sign Corrected



Right In: 703.406+/-0.197  $\chi^2/\text{NDF}$ : 666885.8/16

Left Out: 647.544+/-0.153  $\chi^2/\text{NDF}$ : 239840.8/11

Right Out: 683.493+/-0.187  $\chi^2/\text{NDF}$ : 659356.0/17

Left In: 637.769+/-0.152  $\chi^2/\text{NDF}$ : 294143.7/10

Left: 642.600+/-0.108  $\chi^2/\text{NDF}$ : 536036.2/22

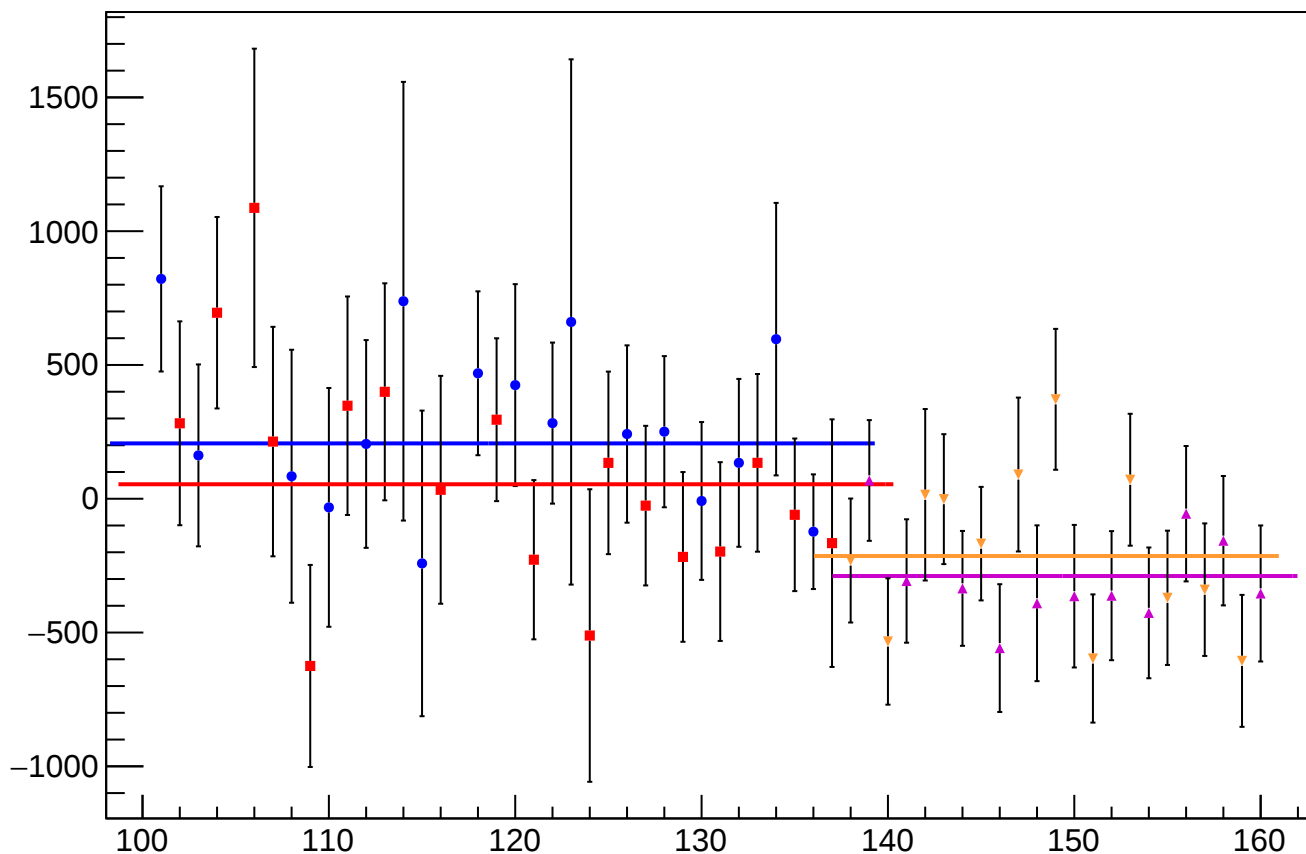
Right: 692.935+/-0.136  $\chi^2/\text{NDF}$ : 1331611.8/34

In: 662.193+/-0.120  $\chi^2/\text{NDF}$ : 1030696.5/27

Out: 662.001+/-0.119  $\chi^2/\text{NDF}$ : 921262.5/29

All: 662.096+/-0.084  $\chi^2/\text{NDF}$ : 1951960.3/57

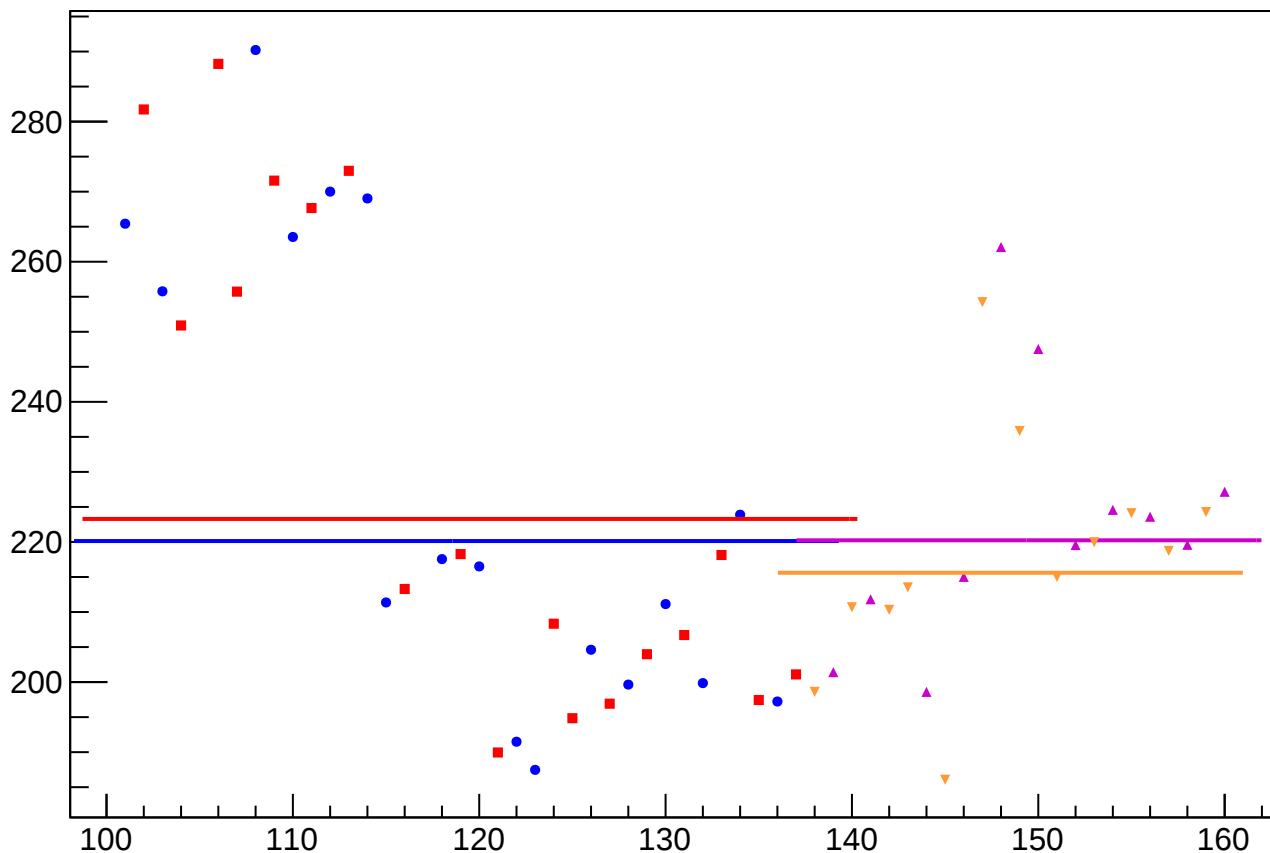
# dit\_asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $206.874 \pm 85.632$   $\chi^2/\text{NDF}: 9.5/16$   
 Left Out:  $-214.061 \pm 71.704$   $\chi^2/\text{NDF}: 16.3/11$   
 Right Out:  $54.185 \pm 85.192$   $\chi^2/\text{NDF}: 15.7/17$   
 Left In:  $-288.813 \pm 73.379$   $\chi^2/\text{NDF}: 5.7/10$

Left:  $-250.574 \pm 51.284$   $\chi^2/\text{NDF}: 22.5/22$   
 Right:  $130.137 \pm 60.395$   $\chi^2/\text{NDF}: 26.8/34$   
 In:  $-78.940 \pm 55.720$   $\chi^2/\text{NDF}: 34.5/27$   
 Out:  $-102.830 \pm 54.859$   $\chi^2/\text{NDF}: 37.8/29$   
 All:  $-91.071 \pm 39.092$   $\chi^2/\text{NDF}: 72.3/57$

dit\_asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 220.133 $\pm$ 0.061  $\chi^2$ /NDF: 228444.0/16

Left Out: 215.607 $\pm$ 0.051  $\chi^2$ /NDF:104712.7/11

Right Out: 223.287 $\pm$ 0.060  $\chi^2$ /NDF: 272255.2/17

Left In: 220.237 $\pm$ 0.052  $\chi^2$ /NDF:102712.8/10

Left: 217.869 $\pm$ 0.036  $\chi^2$ /NDF: 211500.1/22

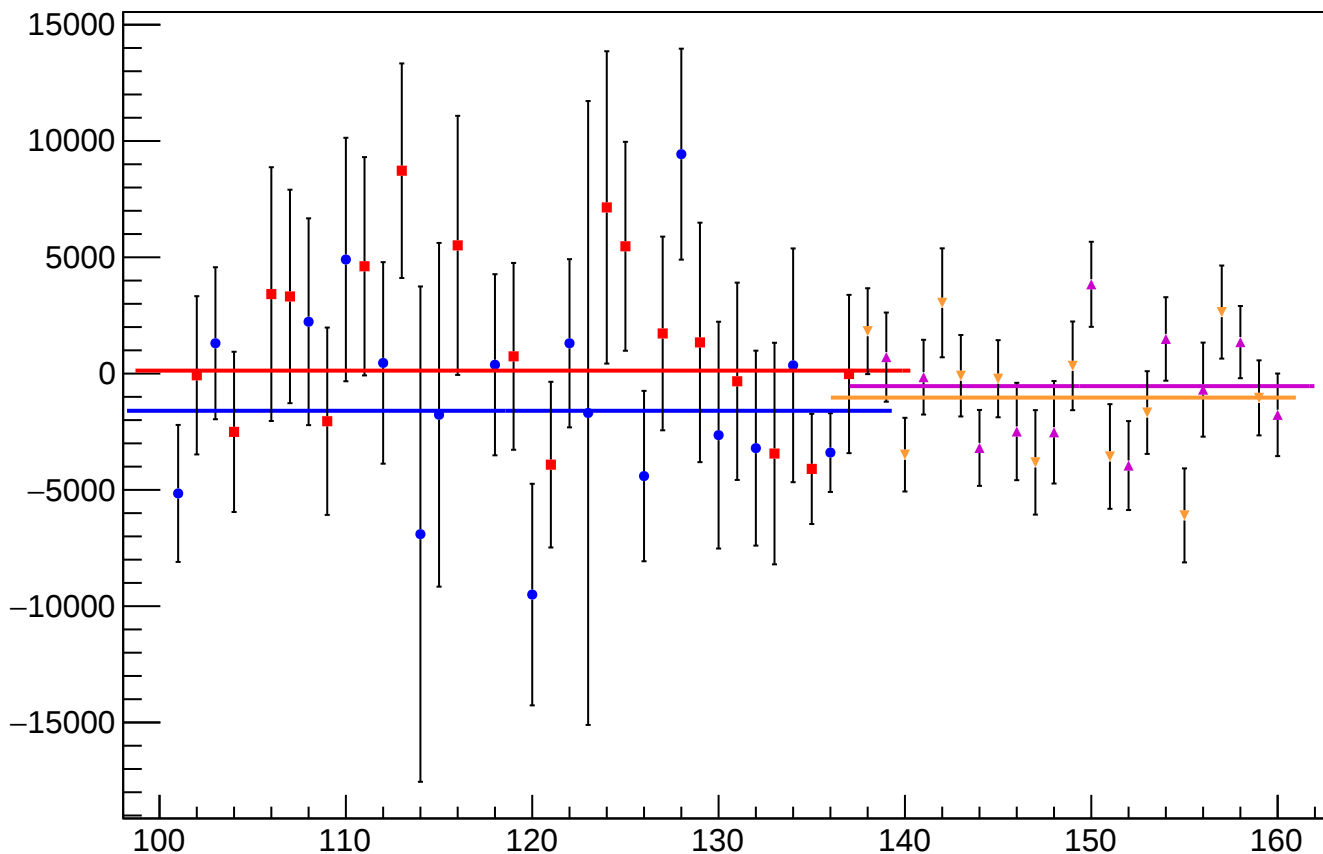
Right: 221.718 $\pm$ 0.043  $\chi^2$ /NDF: 502063.5/34

In: 220.193 $\pm$ 0.039  $\chi^2$ /NDF:331158.6/27

Out: 218.792 $\pm$ 0.039  $\chi^2$ /NDF:386484.0/29

All: 219.481 $\pm$ 0.028  $\chi^2$ /NDF: 718285.1/57

asym\_sam\_26\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -1599.045 $\pm$ 921.042  $\chi^2$ /NDF: 16.6/16

Left Out: -1032.221 $\pm$ 539.989  $\chi^2$ /NDF:21.4/11

Right Out: 127.760 $\pm$ 949.094  $\chi^2$ /NDF: 14.8/17

Left In: -539.088 $\pm$ 548.104  $\chi^2$ /NDF:17.0/10

Left: -789.332 $\pm$ 384.667  $\chi^2$ /NDF: 38.8/22

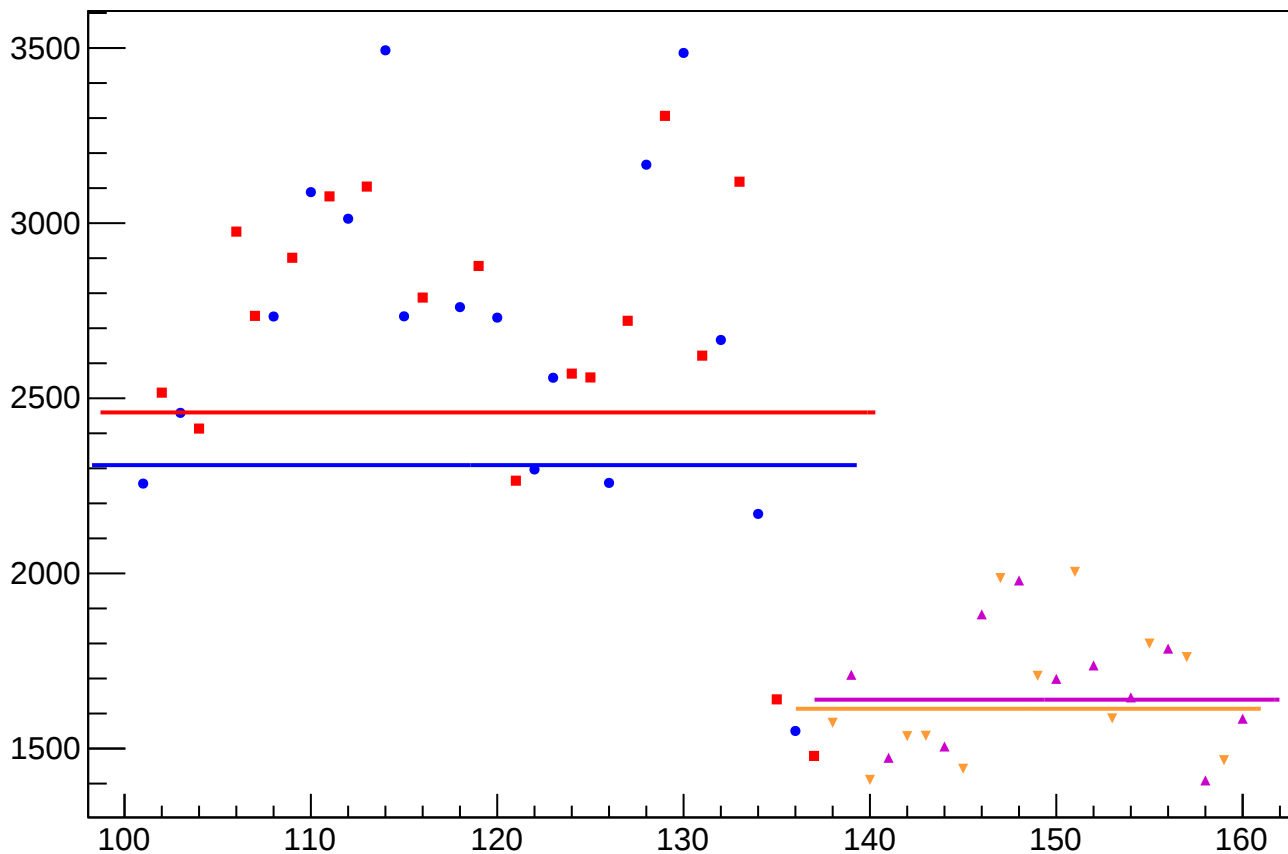
Right: -761.539 $\pm$ 660.970  $\chi^2$ /NDF: 33.2/34

In: -816.288 $\pm$ 471.012  $\chi^2$ /NDF:34.6/27

Out: -748.553 $\pm$ 469.341  $\chi^2$ /NDF:37.4/29

All: -782.300 $\pm$ 332.464  $\chi^2$ /NDF: 72.0/57

asym\_sam\_26\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 2309.132 $\pm$ 0.651  $\chi^2$ /NDF: 800728.2/16

Left Out: 1613.608 $\pm$ 0.382  $\chi^2$ /NDF: 226497.7/11

Right Out: 2459.603 $\pm$ 0.671  $\chi^2$ /NDF: 668179.2/17

Left In: 1639.569 $\pm$ 0.388  $\chi^2$ /NDF: 175990.9/10

Left: 1626.395 $\pm$ 0.272  $\chi^2$ /NDF: 404765.5/22

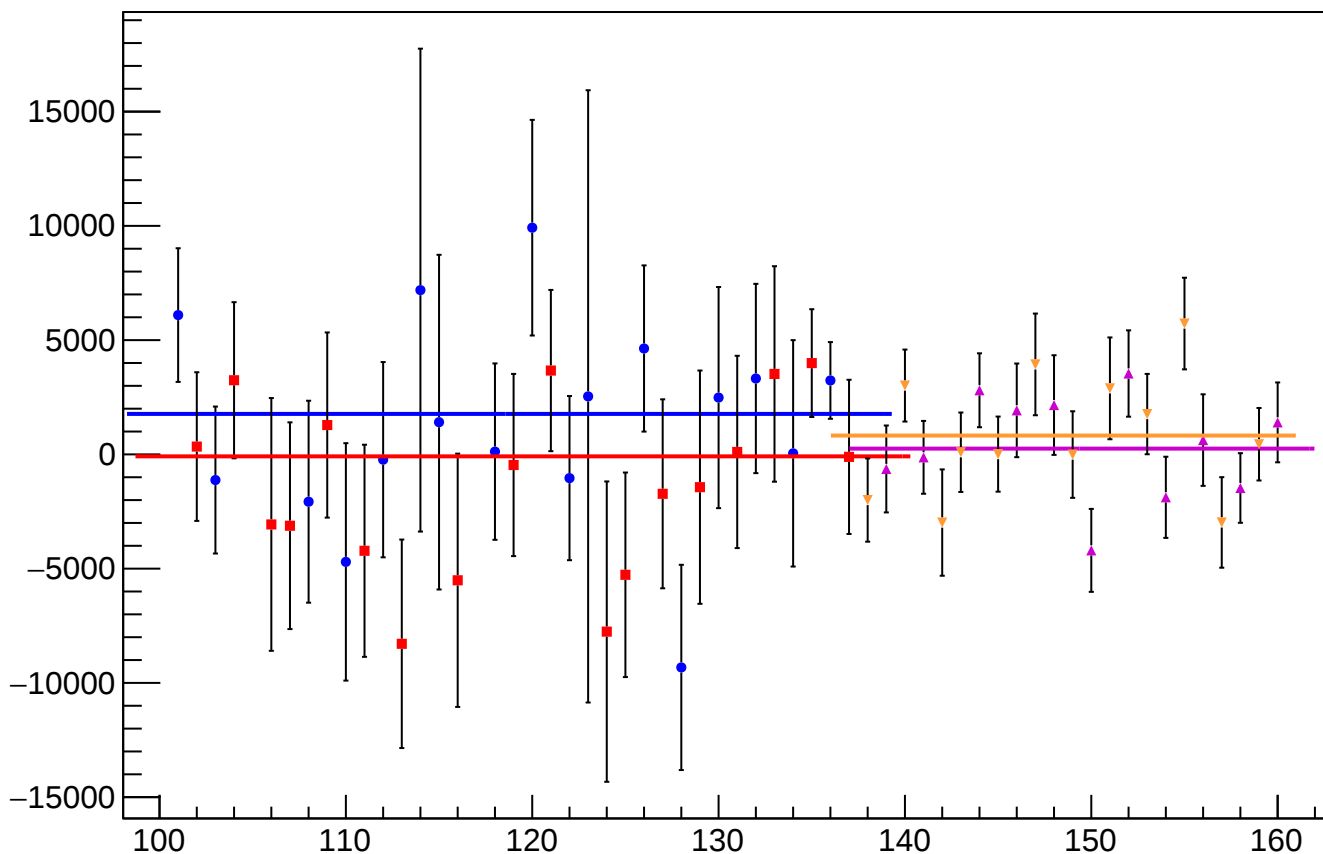
Right: 2382.111 $\pm$ 0.467  $\chi^2$ /NDF: 1494797.0/34

In: 1814.673 $\pm$ 0.333  $\chi^2$ /NDF: 1757254.3/27

Out: 1820.492 $\pm$ 0.332  $\chi^2$ /NDF: 2095159.5/29

All: 1817.593 $\pm$ 0.235  $\chi^2$ /NDF: 3852567.0/57

asym\_sam\_26\_dd\_mean vs Slug, Sign Corrected



Right In: 1771.279 $\pm$ 912.328  $\chi^2$ /NDF: 17.3/16

Left Out: 824.496 $\pm$ 534.690  $\chi^2$ /NDF: 20.4/11

Right Out: -86.080 $\pm$ 939.852  $\chi^2$ /NDF: 14.5/17

Left In: 252.523 $\pm$ 541.530  $\chi^2$ /NDF: 16.4/10

Left: 542.145 $\pm$ 380.478  $\chi^2$ /NDF: 37.4/22

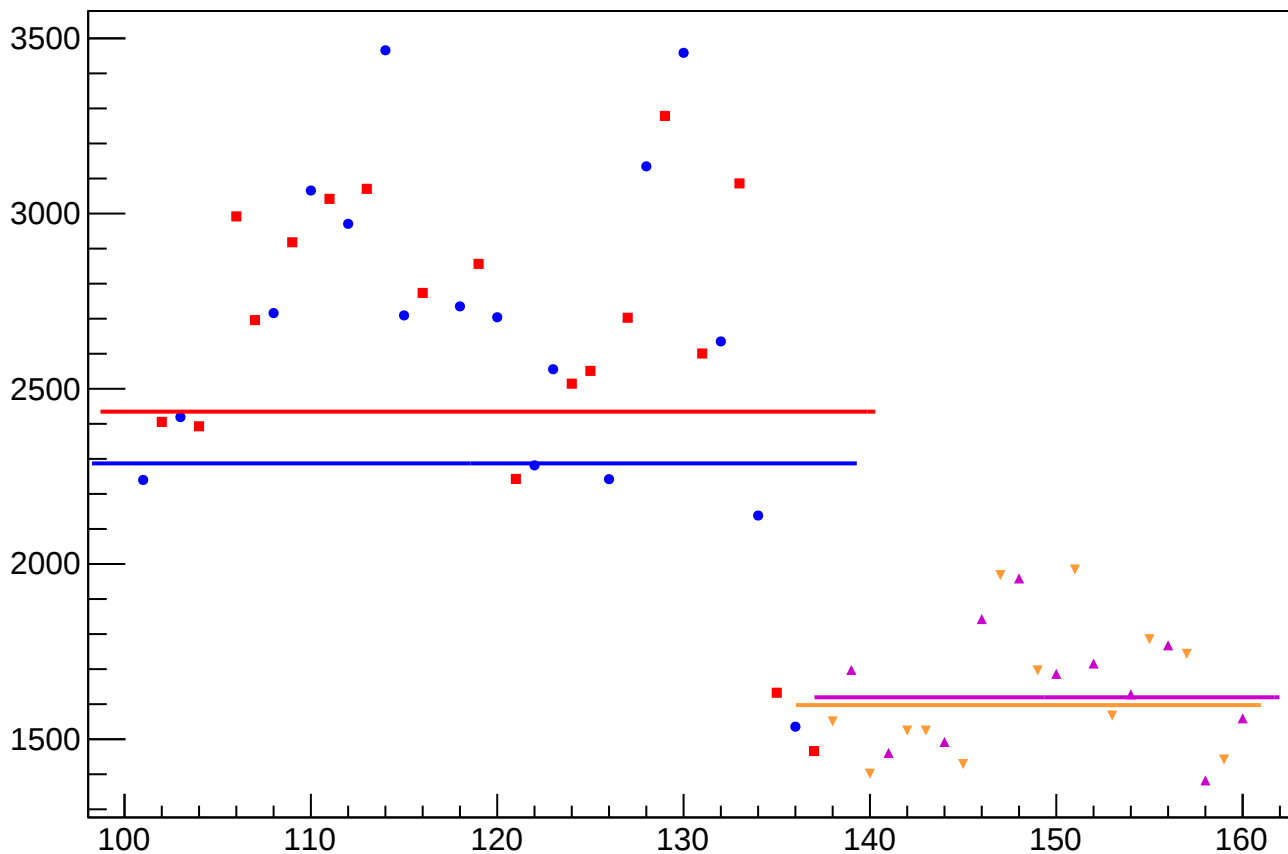
Right: 870.195 $\pm$ 654.628  $\chi^2$ /NDF: 33.8/34

In: 648.209 $\pm$ 465.674  $\chi^2$ /NDF: 35.8/27

Out: 601.845 $\pm$ 464.745  $\chi^2$ /NDF: 35.6/29

All: 624.980 $\pm$ 328.952  $\chi^2$ /NDF: 71.4/57

# asym\_sam\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 2287.102+/-0.645  $\chi^2/\text{NDF}$ : 799399.0/16

Left Out: 1597.413+/-0.378  $\chi^2/\text{NDF}$ : 228234.9/11

Right Out: 2434.786+/-0.665  $\chi^2/\text{NDF}$ : 666938.3/17

Left In: 1619.655+/-0.383  $\chi^2/\text{NDF}$ : 177583.6/10

Left: 1608.393+/-0.269  $\chi^2/\text{NDF}$ : 407526.9/22

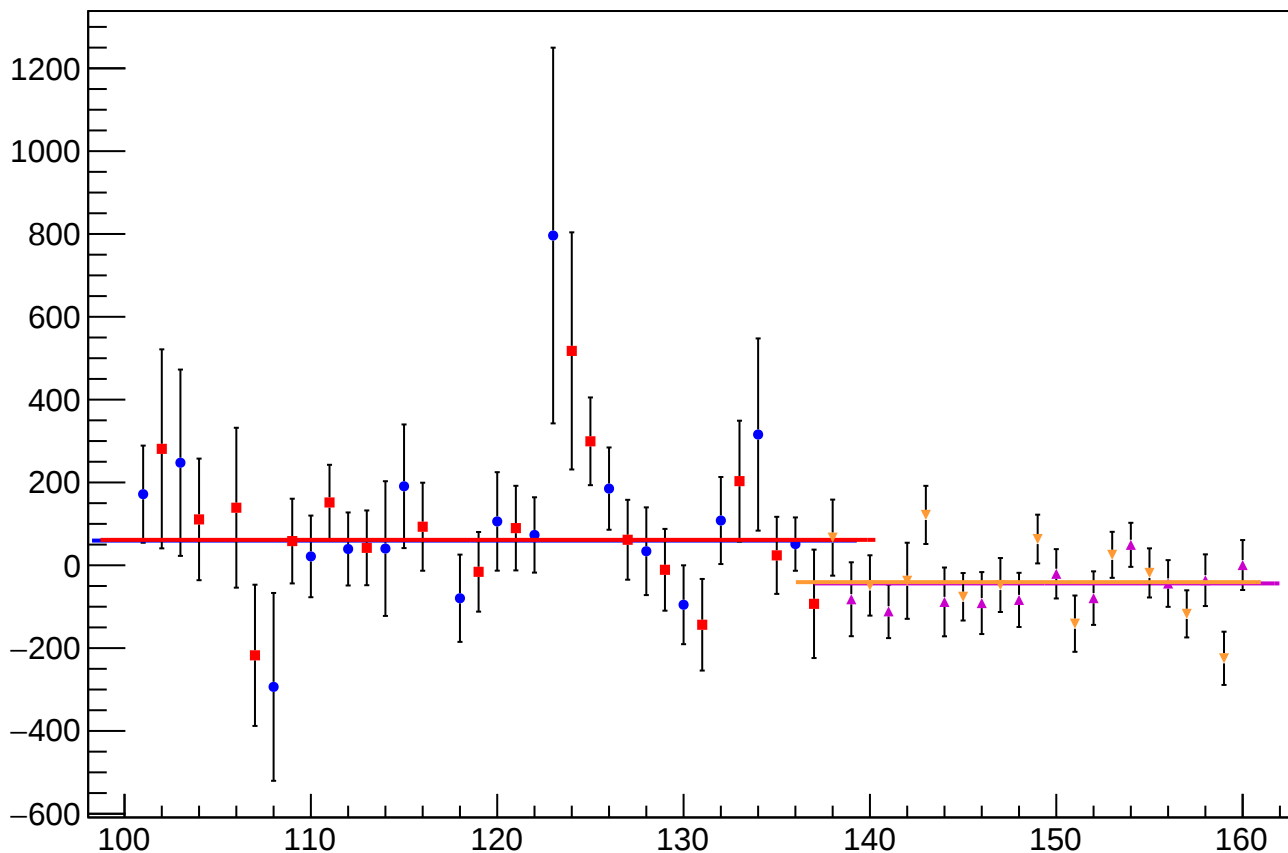
Right: 2358.750+/-0.463  $\chi^2/\text{NDF}$ : 1491762.6/34

In: 1793.547+/-0.329  $\chi^2/\text{NDF}$ : 1768535.6/27

Out: 1802.165+/-0.329  $\chi^2/\text{NDF}$ : 2094598.5/29

All: 1797.865+/-0.233  $\chi^2/\text{NDF}$ : 3863477.2/57

# dit\_asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In: 59.656 $\pm$ 27.080  $\chi^2/\text{NDF}$ : 15.3/16

Left Out: -40.689 $\pm$ 18.789  $\chi^2/\text{NDF}$ :24.0/11

Right Out: 61.399 $\pm$ 27.011  $\chi^2/\text{NDF}$ : 19.7/17

Left In: -43.790 $\pm$ 19.452  $\chi^2/\text{NDF}$ :6.4/10

Left: -42.186 $\pm$ 13.514  $\chi^2/\text{NDF}$ : 30.4/22

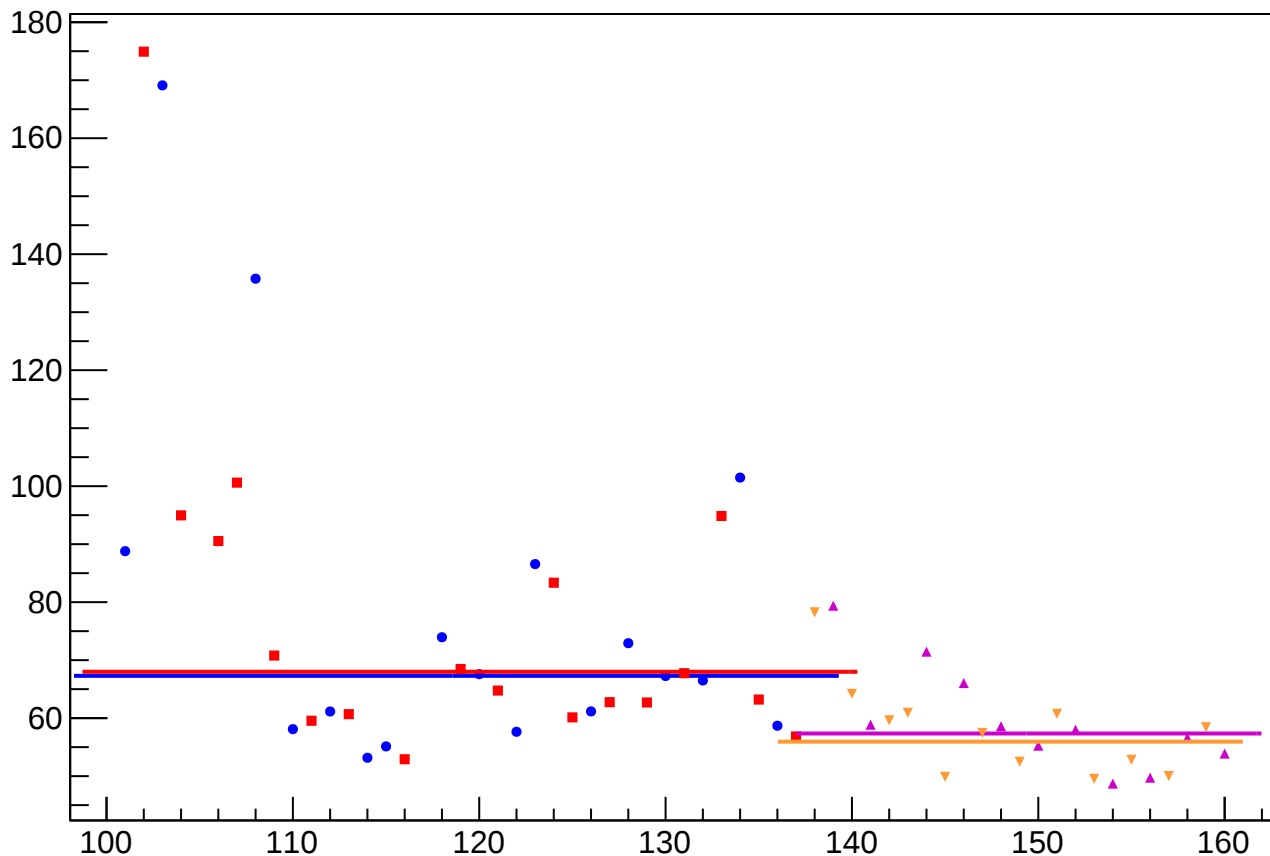
Right: 60.530 $\pm$ 19.124  $\chi^2/\text{NDF}$ : 35.0/34

In: -8.580 $\pm$ 15.799  $\chi^2/\text{NDF}$ :31.4/27

Out: -7.399 $\pm$ 15.424  $\chi^2/\text{NDF}$ :53.3/29

All: -7.976 $\pm$ 11.037  $\chi^2/\text{NDF}$ : 84.7/57

dit\_asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 67.297 $\pm$ 0.019  $\chi^2$ /NDF: 841352.2/16

Left Out: 55.946 $\pm$ 0.013  $\chi^2$ /NDF: 254104.7/11

Right Out: 67.998 $\pm$ 0.019  $\chi^2$ /NDF: 754329.7/17

Left In: 57.352 $\pm$ 0.014  $\chi^2$ /NDF: 307388.7/10

Left: 56.625 $\pm$ 0.010  $\chi^2$ /NDF: 566897.5/22

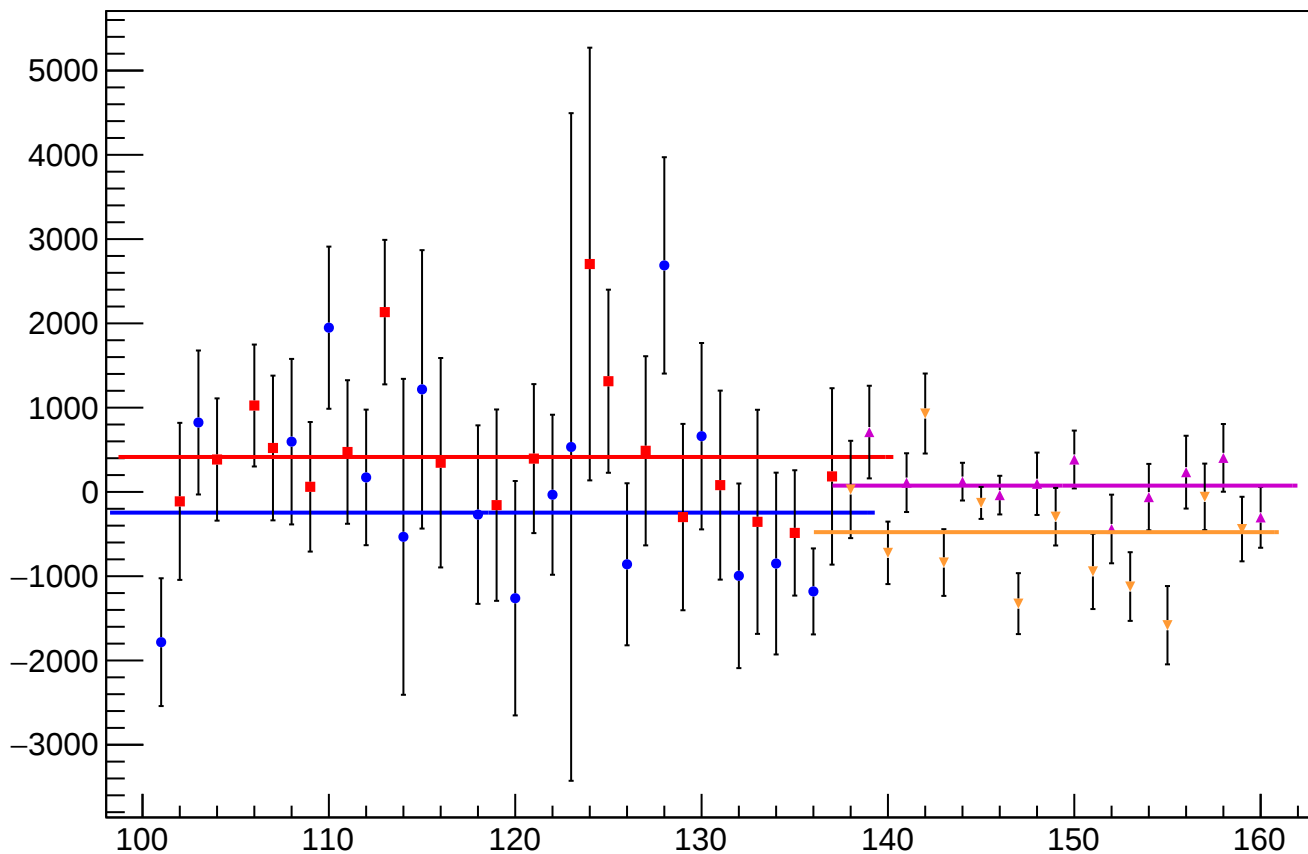
Right: 67.648 $\pm$ 0.014  $\chi^2$ /NDF: 1596354.2/34

In: 60.737 $\pm$ 0.011  $\chi^2$ /NDF: 1326674.2/27

Out: 59.876 $\pm$ 0.011  $\chi^2$ /NDF: 1276775.4/29

All: 60.296 $\pm$ 0.008  $\chi^2$ /NDF: 2606488.9/57

asym\_sam\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -245.631 $\pm$ 235.404  $\chi^2$ /NDF: 23.8/16

Left Out: -477.247 $\pm$ 103.141  $\chi^2$ /NDF:30.3/11

Right Out: 414.725 $\pm$ 222.788  $\chi^2$ /NDF: 9.4/17

Left In: 74.834 $\pm$ 100.999  $\chi^2$ /NDF:6.1/10

Left: -195.414 $\pm$ 72.162  $\chi^2$ /NDF: 51.0/22

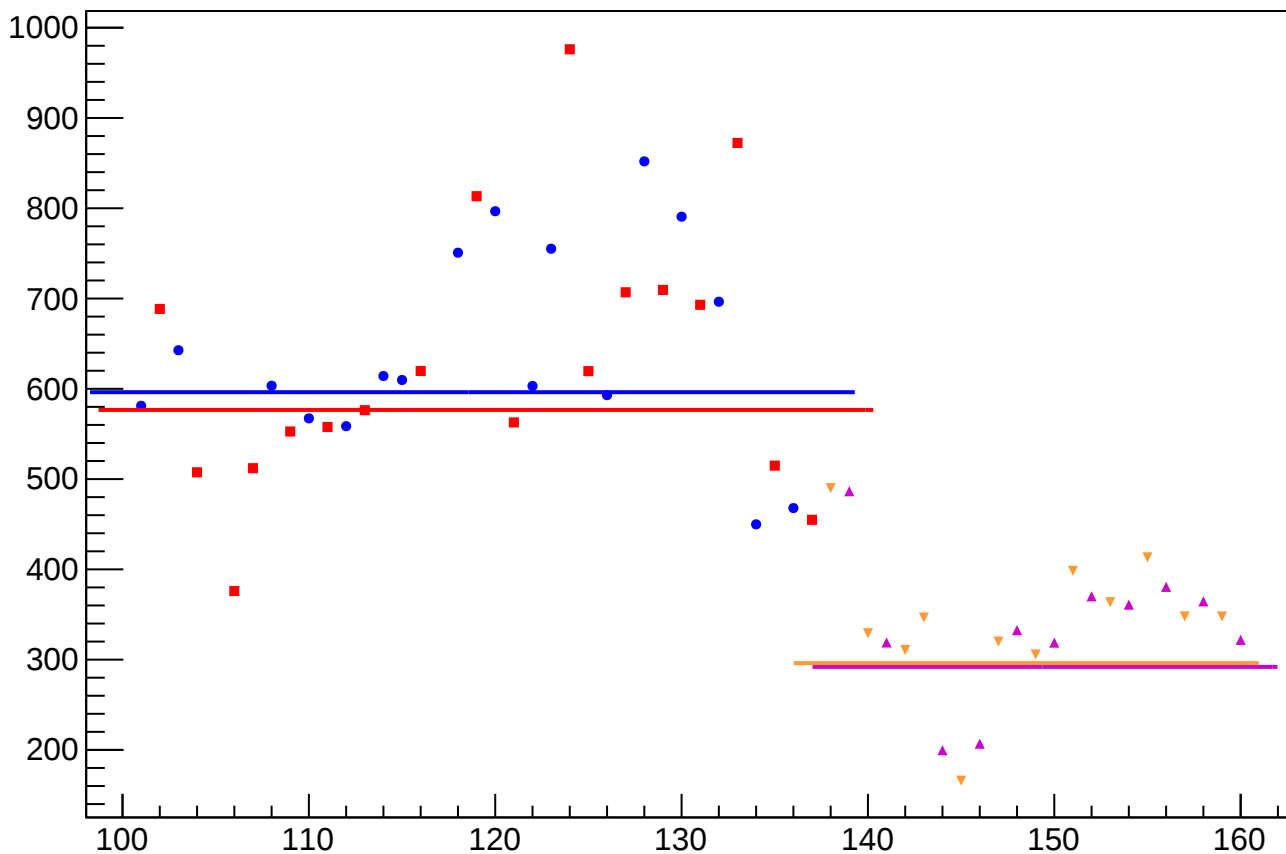
Right: 102.716 $\pm$ 161.811  $\chi^2$ /NDF: 37.3/34

In: 25.014 $\pm$ 92.817  $\chi^2$ /NDF:31.4/27

Out: -319.816 $\pm$ 93.597  $\chi^2$ /NDF:52.9/29

All: -145.957 $\pm$ 65.905  $\chi^2$ /NDF: 91.2/57

asym\_sam\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 596.246+/-0.166  $\chi^2/\text{NDF}$ : 422153.3/16

Left Out: 296.138+/-0.073  $\chi^2/\text{NDF}$ :1584878.4/11

Right Out: 576.614+/-0.158  $\chi^2/\text{NDF}$ : 573658.2/17

Left In: 291.981+/-0.071  $\chi^2/\text{NDF}$ :1213265.2/10

Left: 294.016+/-0.051  $\chi^2/\text{NDF}$ : 2799801.9/22

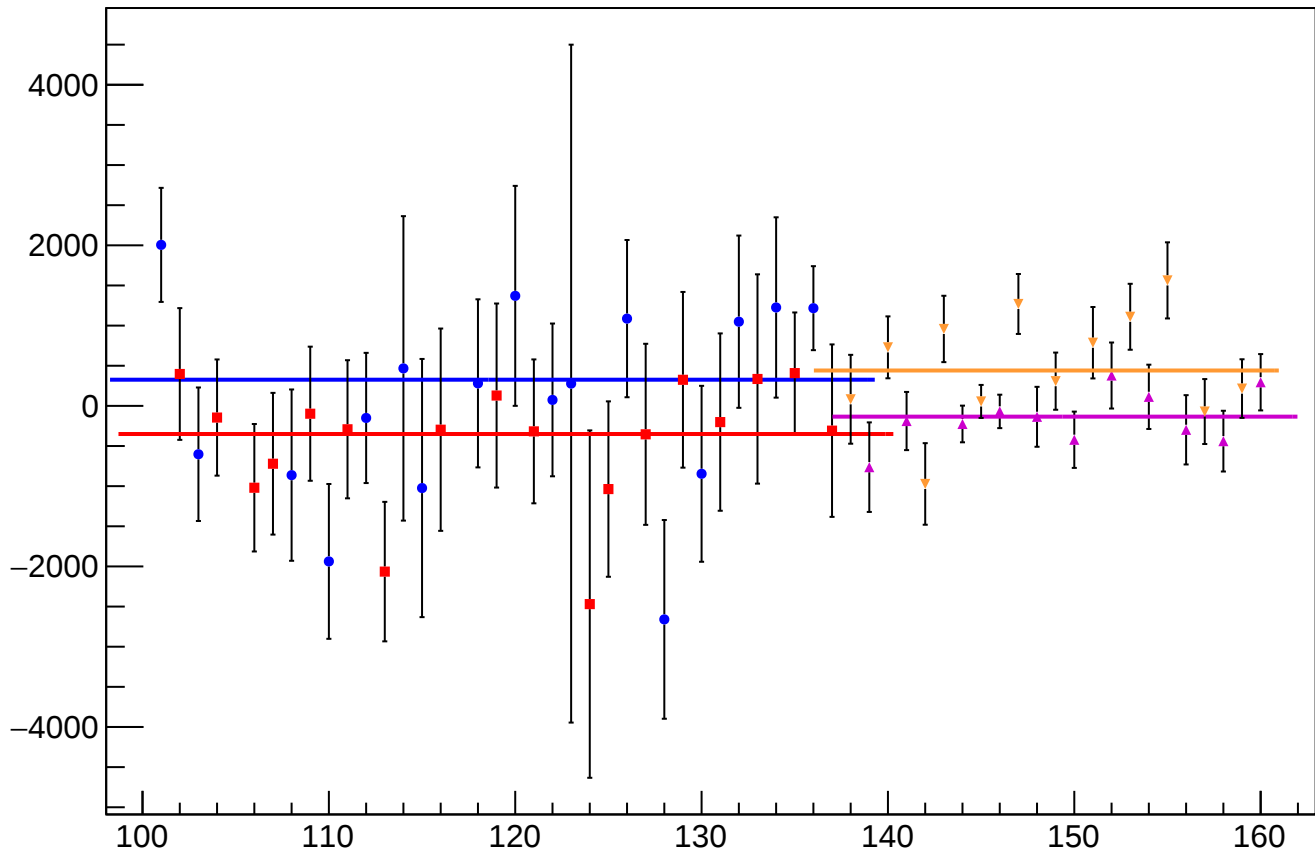
Right: 585.890+/-0.114  $\chi^2/\text{NDF}$ : 1003148.8/34

In: 339.283+/-0.066  $\chi^2/\text{NDF}$ :4457201.2/27

Out: 345.642+/-0.066  $\chi^2/\text{NDF}$ :4768908.3/29

All: 342.436+/-0.047  $\chi^2/\text{NDF}$ : 9230763.7/57

# asym\_sam\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $326.077 \pm 235.599$   $\chi^2/\text{NDF}: 26.9/16$

Left Out:  $440.792 \pm 106.935$   $\chi^2/\text{NDF}: 29.7/11$

Right Out:  $-350.392 \pm 225.254$   $\chi^2/\text{NDF}: 9.0/17$

Left In:  $-134.079 \pm 99.511$   $\chi^2/\text{NDF}: 6.4/10$

Left:  $132.712 \pm 72.848$   $\chi^2/\text{NDF}: 51.6/22$

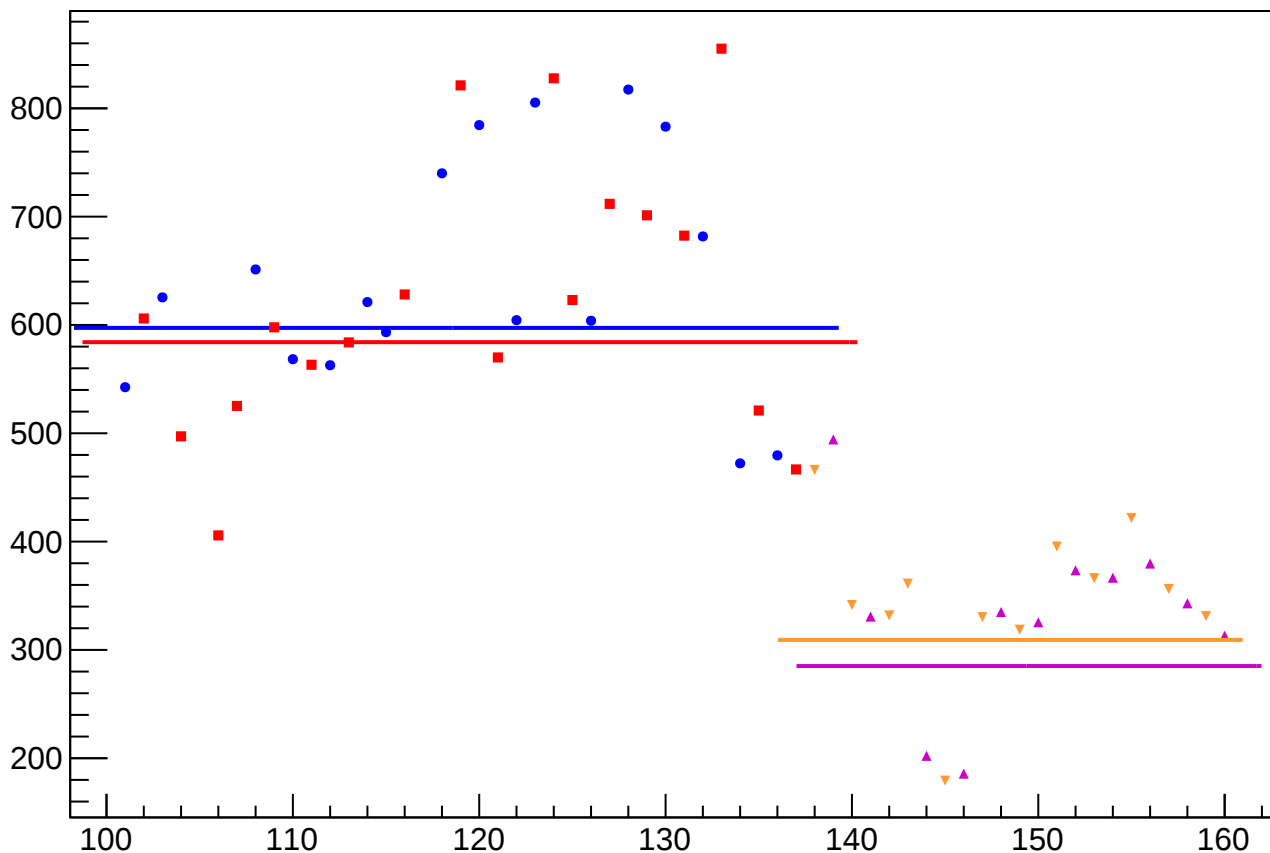
Right:  $-27.335 \pm 162.813$   $\chi^2/\text{NDF}: 40.2/34$

In:  $-64.415 \pm 91.670$   $\chi^2/\text{NDF}: 36.5/27$

Out:  $295.279 \pm 96.602$   $\chi^2/\text{NDF}: 48.8/29$

All:  $106.016 \pm 66.495$   $\chi^2/\text{NDF}: 92.6/57$

# asym\_sam\_37\_dd\_rms vs Slug, Sign Corrected



Right In:  $597.298 \pm 0.167$   $\chi^2/\text{NDF}$ : 363658.5/16

Left Out:  $309.227 \pm 0.076$   $\chi^2/\text{NDF}$ : 1276496.4/11

Right Out:  $584.112 \pm 0.159$   $\chi^2/\text{NDF}$ : 446882.7/17

Left In:  $285.110 \pm 0.070$   $\chi^2/\text{NDF}$ : 1424801.4/10

Left:  $296.302 \pm 0.052$   $\chi^2/\text{NDF}$ : 2755813.1/22

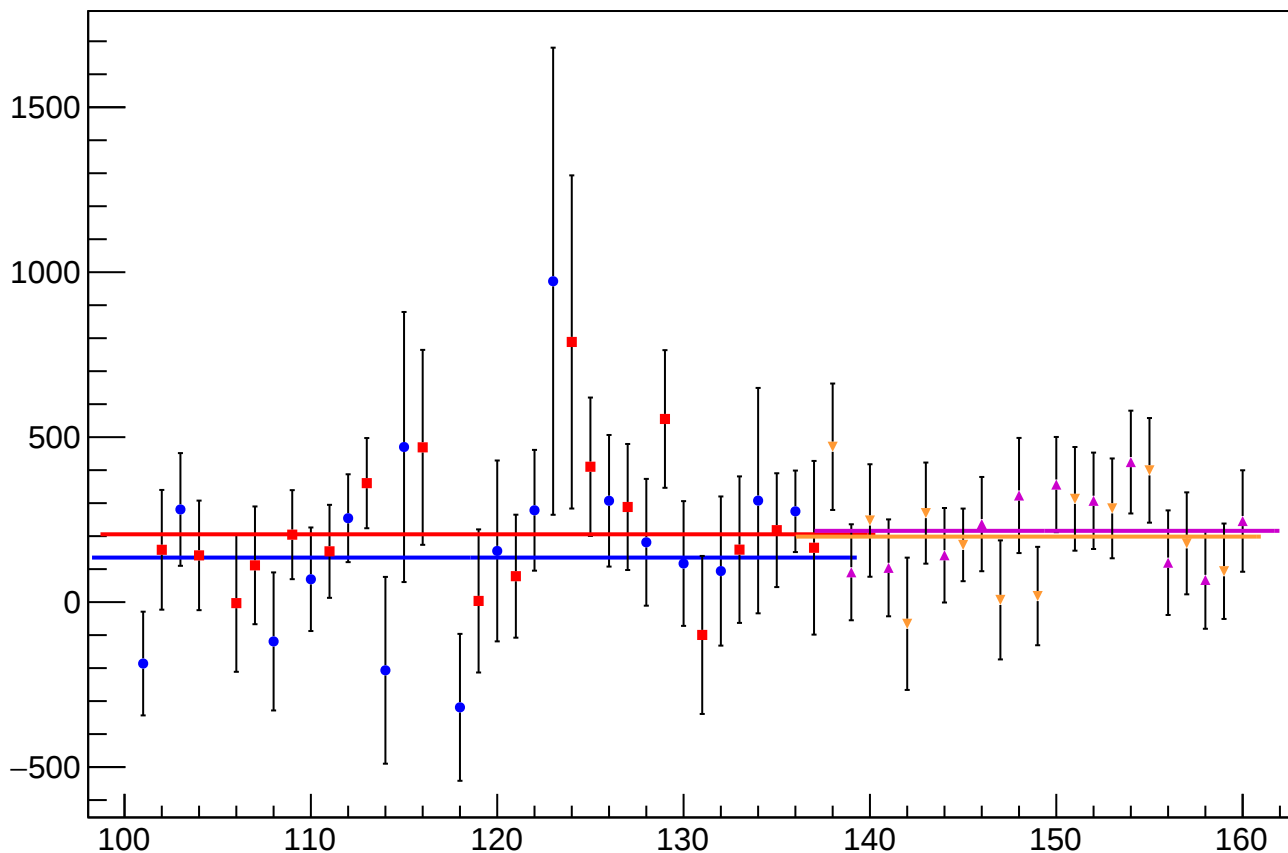
Right:  $590.409 \pm 0.115$   $\chi^2/\text{NDF}$ : 813814.1/34

In:  $332.373 \pm 0.065$   $\chi^2/\text{NDF}$ : 4768493.9/27

Out:  $359.783 \pm 0.068$   $\chi^2/\text{NDF}$ : 4154020.7/29

All:  $345.360 \pm 0.047$   $\chi^2/\text{NDF}$ : 9007241.4/57

dit\_asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 135.029 $\pm$ 47.025  $\chi^2$ /NDF: 18.1/16

Left Out: 198.535 $\pm$ 44.677  $\chi^2$ /NDF: 9.7/11

Right Out: 205.590 $\pm$ 44.536  $\chi^2$ /NDF: 12.0/17

Left In: 216.070 $\pm$ 45.272  $\chi^2$ /NDF: 6.5/10

Left: 207.187 $\pm$ 31.800  $\chi^2$ /NDF: 16.3/22

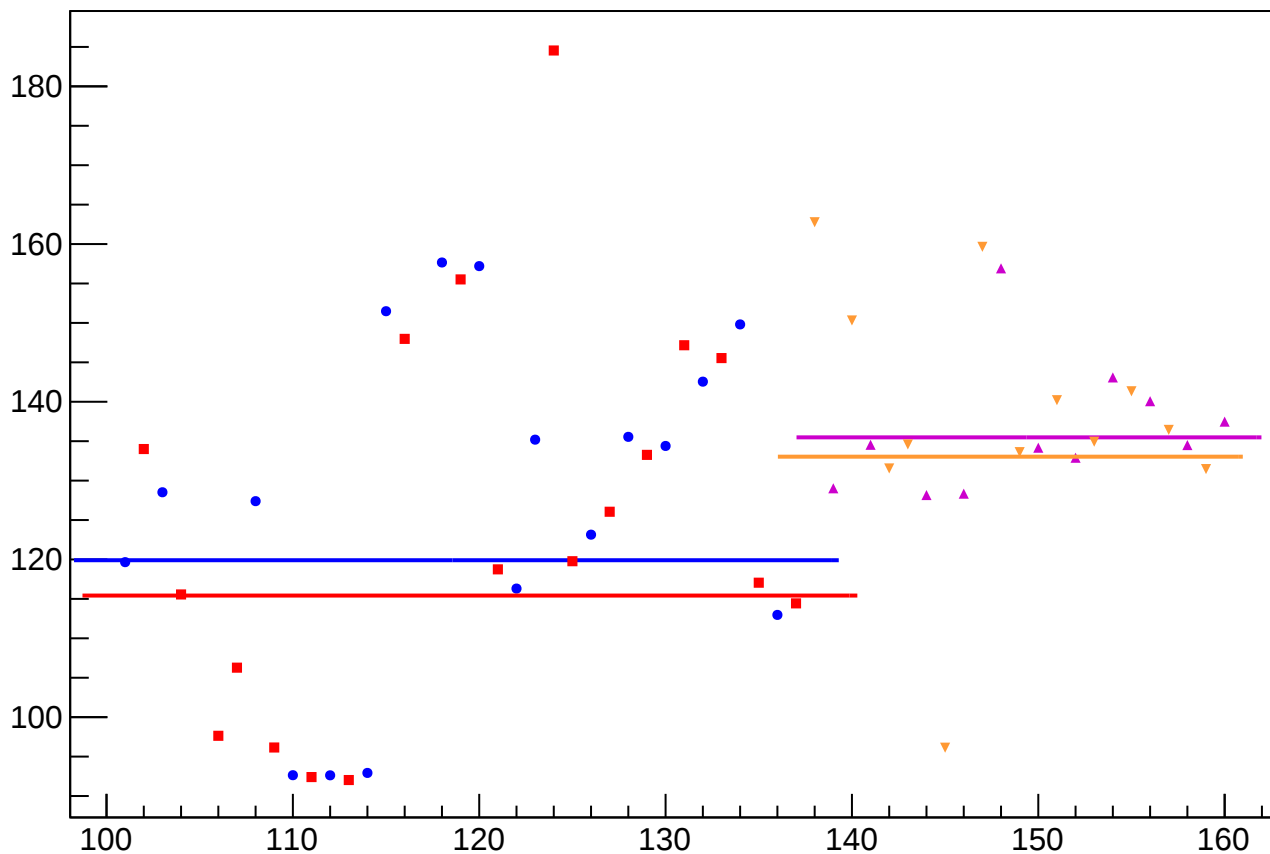
Right: 172.226 $\pm$ 32.336  $\chi^2$ /NDF: 31.3/34

In: 177.088 $\pm$ 32.614  $\chi^2$ /NDF: 26.1/27

Out: 202.074 $\pm$ 31.541  $\chi^2$ /NDF: 21.7/29

All: 189.999 $\pm$ 22.673  $\chi^2$ /NDF: 48.2/57

dit\_asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 119.903 $\pm$ 0.033  $\chi^2$ /NDF: 345510.5/16

Left Out: 133.036 $\pm$ 0.032  $\chi^2$ /NDF: 348569.9/11

Right Out: 115.422 $\pm$ 0.031  $\chi^2$ /NDF: 418100.5/17

Left In: 135.485 $\pm$ 0.032  $\chi^2$ /NDF: 52057.8/10

Left: 134.244 $\pm$ 0.022  $\chi^2$ /NDF: 403594.7/22

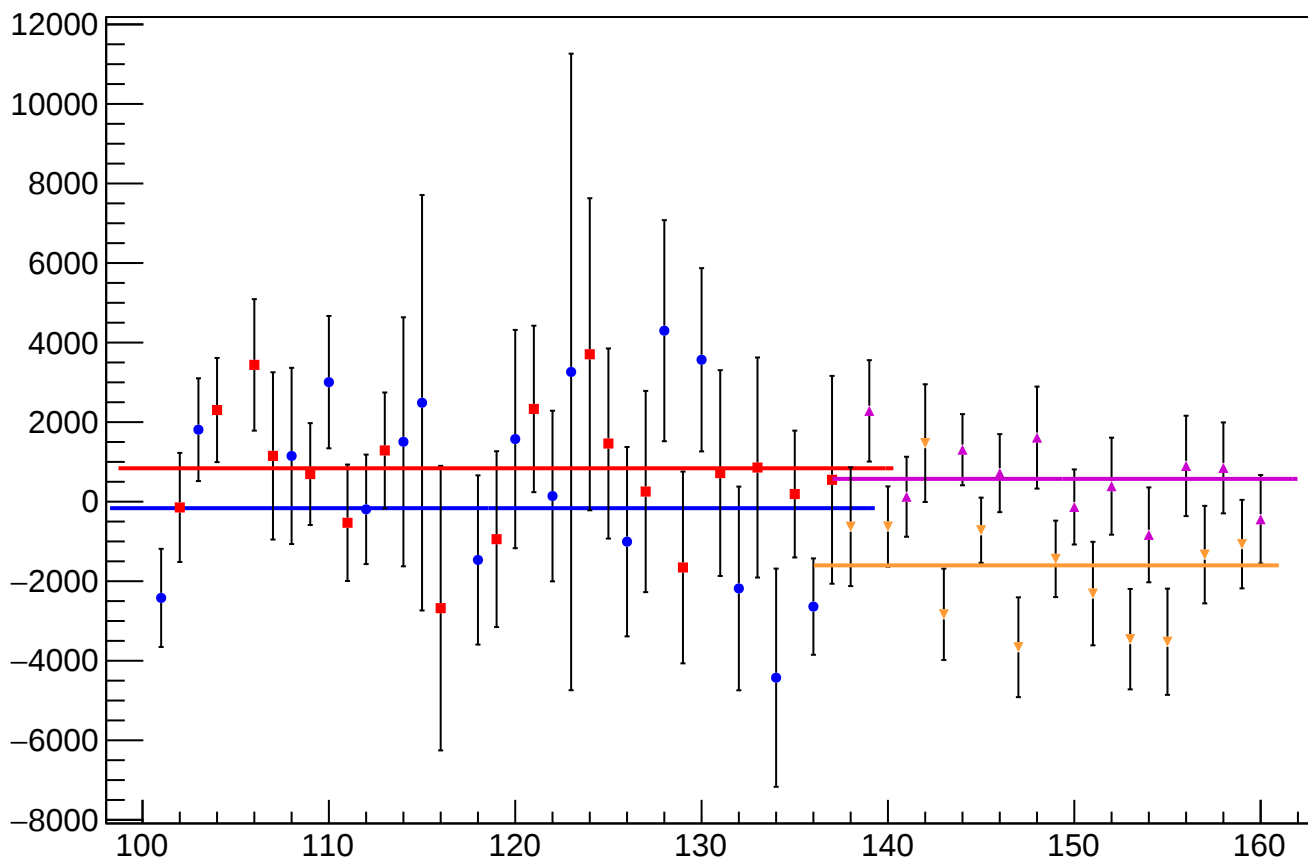
Right: 117.541 $\pm$ 0.023  $\chi^2$ /NDF: 773185.8/34

In: 127.990 $\pm$ 0.023  $\chi^2$ /NDF: 511536.6/27

Out: 124.201 $\pm$ 0.022  $\chi^2$ /NDF: 922586.8/29

All: 126.032 $\pm$ 0.016  $\chi^2$ /NDF: 1448074.9/57

asym\_sam\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -163.538 $\pm$ 469.592  $\chi^2$ /NDF: 23.7/16

Left Out: -1601.535 $\pm$ 331.505  $\chi^2$ /NDF:15.5/11

Right Out: 839.187 $\pm$ 440.476  $\chi^2$ /NDF: 9.3/17

Left In: 572.668 $\pm$ 329.731  $\chi^2$ /NDF:6.3/10

Left: -508.599 $\pm$ 233.780  $\chi^2$ /NDF: 43.4/22

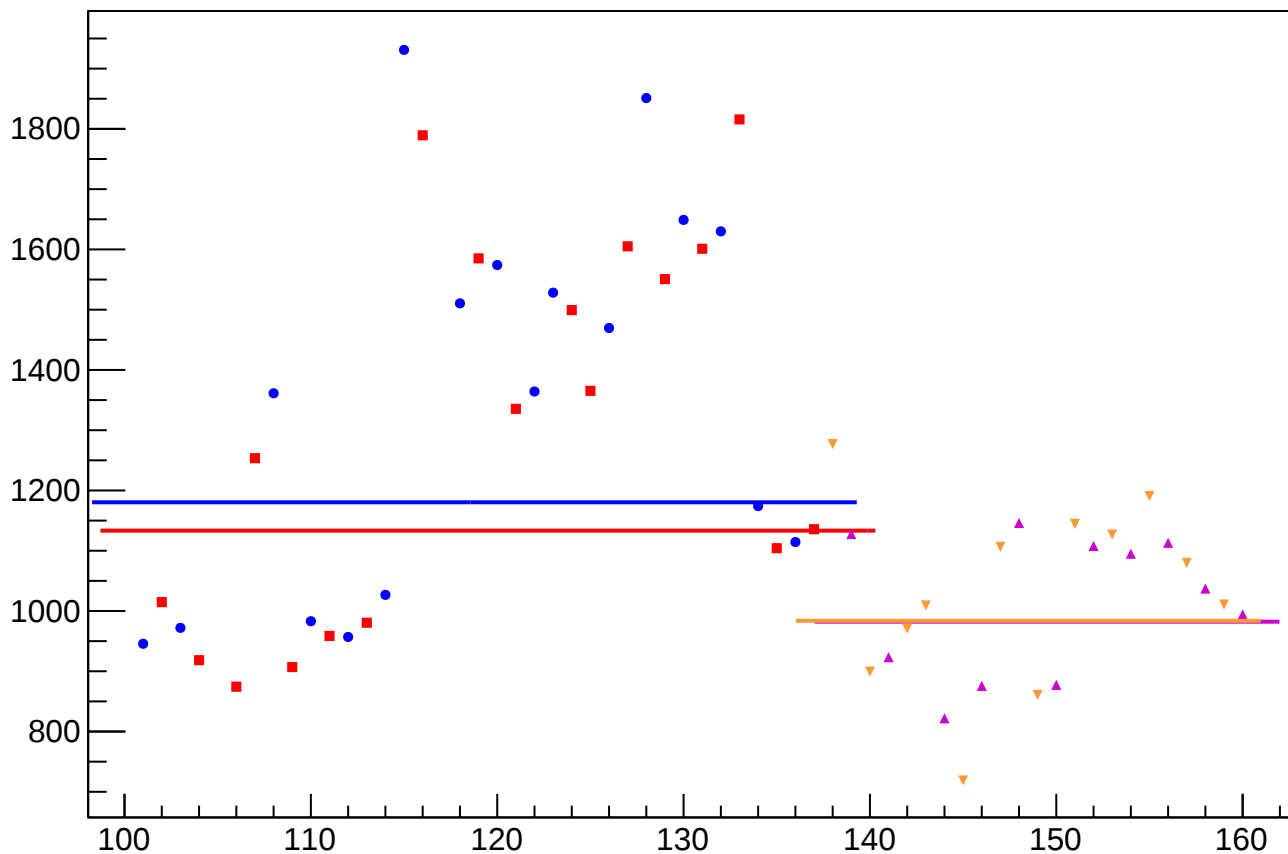
Right: 369.872 $\pm$ 321.264  $\chi^2$ /NDF: 35.4/34

In: 329.555 $\pm$ 269.851  $\chi^2$ /NDF:31.6/27

Out: -718.967 $\pm$ 264.872  $\chi^2$ /NDF:44.4/29

All: -204.468 $\pm$ 189.029  $\chi^2$ /NDF: 83.7/57

asym\_sam\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1180.403 $\pm$ 0.332  $\chi^2$ /NDF: 668845.5/16

Left Out: 983.740 $\pm$ 0.234  $\chi^2$ /NDF: 470257.6/11

Right Out: 1133.347 $\pm$ 0.311  $\chi^2$ /NDF: 760395.8/17

Left In: 982.272 $\pm$ 0.233  $\chi^2$ /NDF: 243431.8/10

Left: 983.002 $\pm$ 0.165  $\chi^2$ /NDF: 713709.1/22

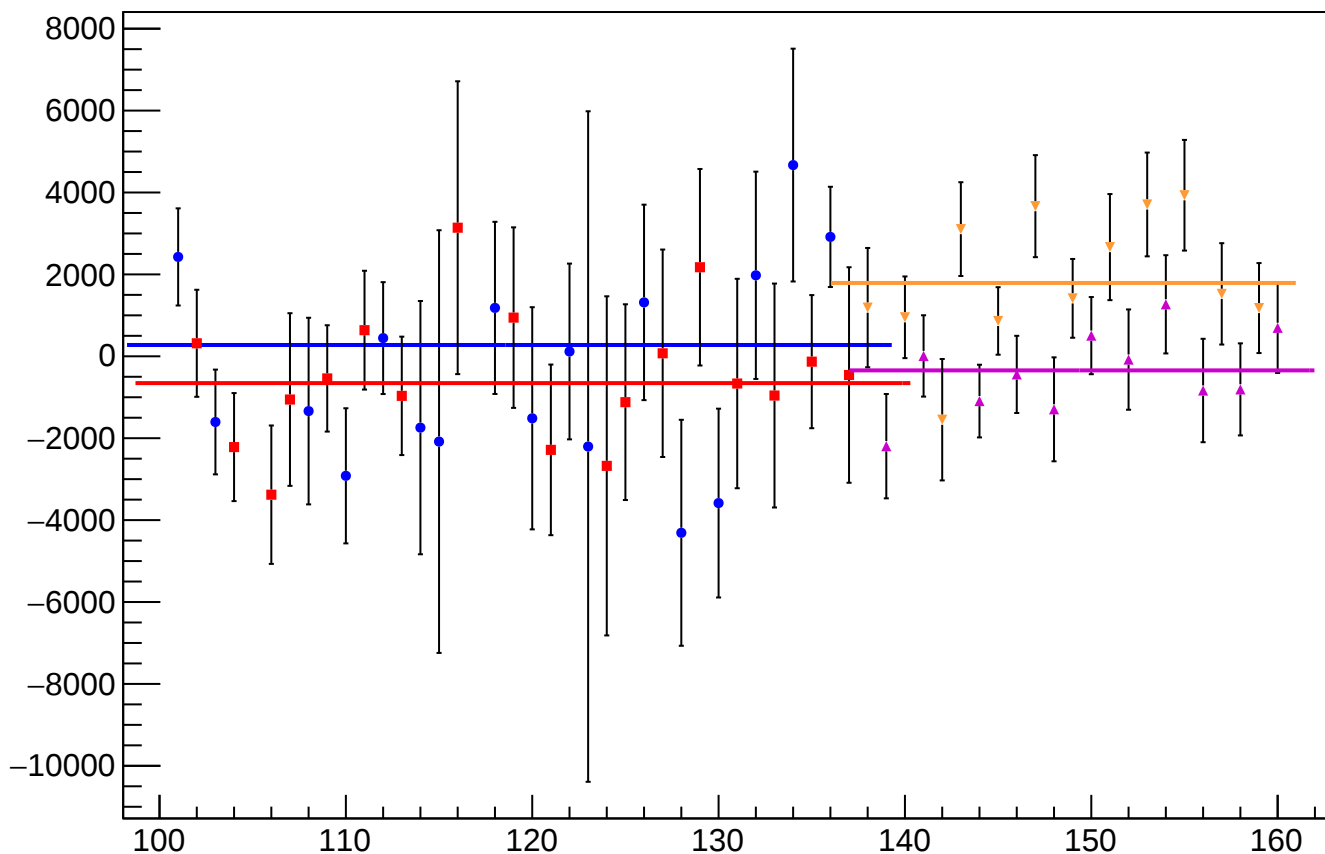
Right: 1155.371 $\pm$ 0.227  $\chi^2$ /NDF: 1439924.5/34

In: 1047.699 $\pm$ 0.191  $\chi^2$ /NDF: 1150742.4/27

Out: 1037.838 $\pm$ 0.187  $\chi^2$ /NDF: 1377945.2/29

All: 1042.677 $\pm$ 0.134  $\chi^2$ /NDF: 2530047.8/57

# asym\_sam\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 276.422 $\pm$ 466.424  $\chi^2/\text{NDF}$ : 24.3/16

Left Out: 1791.094 $\pm$ 330.792  $\chi^2/\text{NDF}$ :16.6/11

Right Out: -654.406 $\pm$ 439.824  $\chi^2/\text{NDF}$ : 9.6/17

Left In: -344.005 $\pm$ 326.575  $\chi^2/\text{NDF}$ :7.4/10

Left: 709.848 $\pm$ 232.400  $\chi^2/\text{NDF}$ : 45.1/22

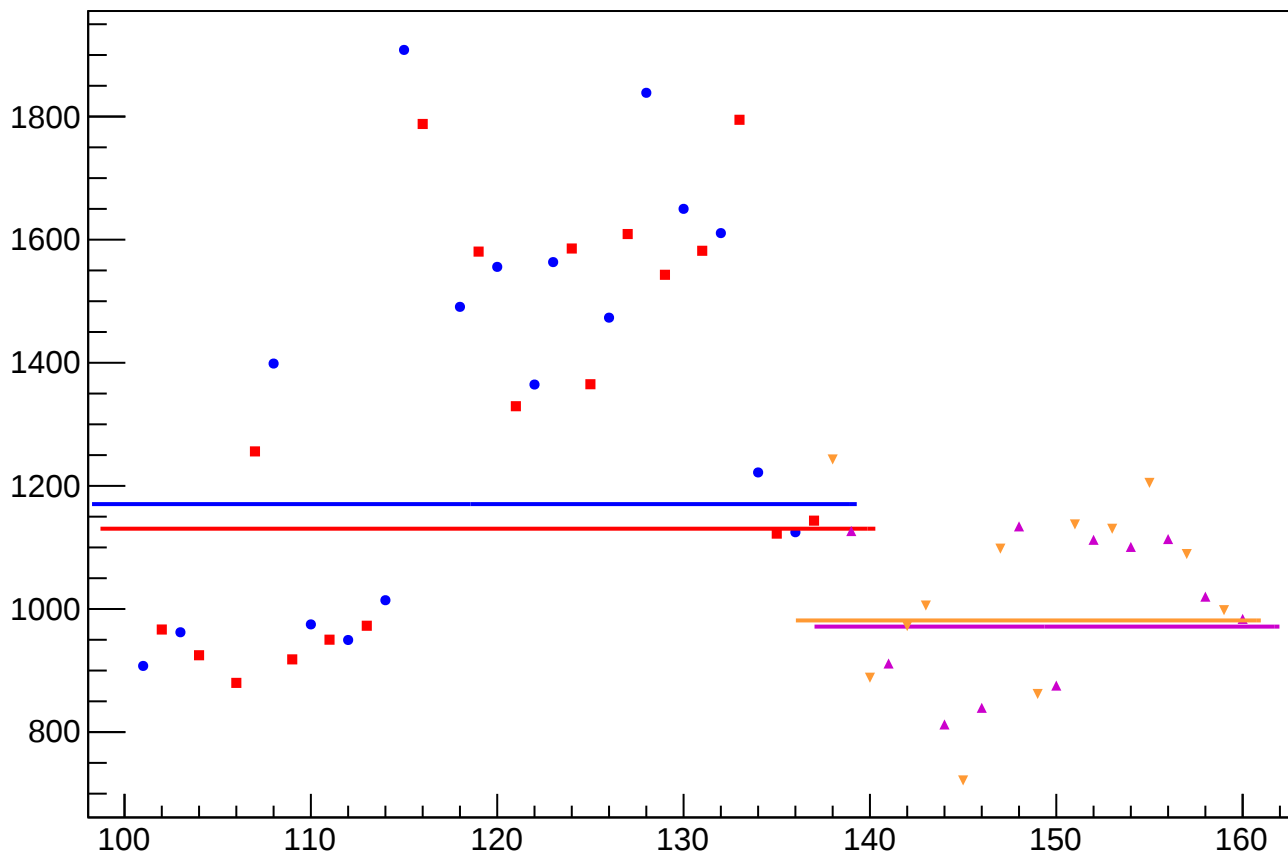
Right: -216.291 $\pm$ 319.993  $\chi^2/\text{NDF}$ : 36.0/34

In: -139.907 $\pm$ 267.520  $\chi^2/\text{NDF}$ :32.9/27

Out: 907.559 $\pm$ 264.367  $\chi^2/\text{NDF}$ :45.9/29

All: 390.035 $\pm$ 188.040  $\chi^2/\text{NDF}$ : 86.6/57

# asym\_sam\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 1170.404 $\pm$ 0.330  $\chi^2$ /NDF: 705486.8/16

Left Out: 981.394 $\pm$ 0.234  $\chi^2$ /NDF: 457044.8/11

Right Out: 1130.456 $\pm$ 0.311  $\chi^2$ /NDF: 763027.2/17

Left In: 971.379 $\pm$ 0.231  $\chi^2$ /NDF: 273153.8/10

Left: 976.322 $\pm$ 0.164  $\chi^2$ /NDF: 731126.8/22

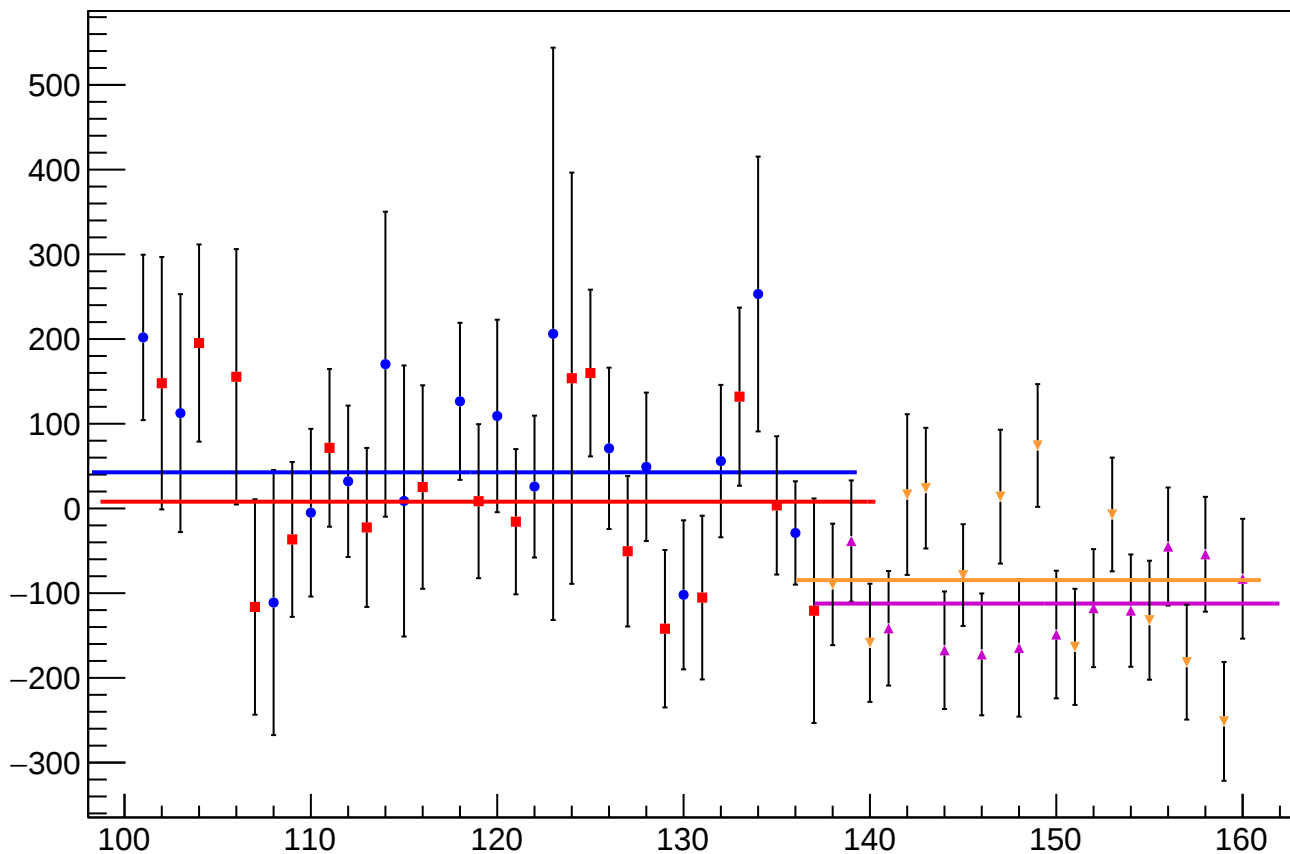
Right: 1149.259 $\pm$ 0.226  $\chi^2$ /NDF: 1476279.7/34

In: 1036.851 $\pm$ 0.189  $\chi^2$ /NDF: 1222999.4/27

Out: 1035.249 $\pm$ 0.187  $\chi^2$ /NDF: 1366800.8/29

All: 1036.040 $\pm$ 0.133  $\chi^2$ /NDF: 2589836.5/57

dit\_asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In:  $42.674 \pm 24.701$   $\chi^2/\text{NDF}: 12.0/16$

Left Out:  $-84.595 \pm 20.435$   $\chi^2/\text{NDF}: 21.8/11$

Right Out:  $7.995 \pm 24.492$   $\chi^2/\text{NDF}: 15.8/17$

Left In:  $-112.274 \pm 21.323$   $\chi^2/\text{NDF}: 5.1/10$

Left:  $-97.846 \pm 14.754$   $\chi^2/\text{NDF}: 27.7/22$

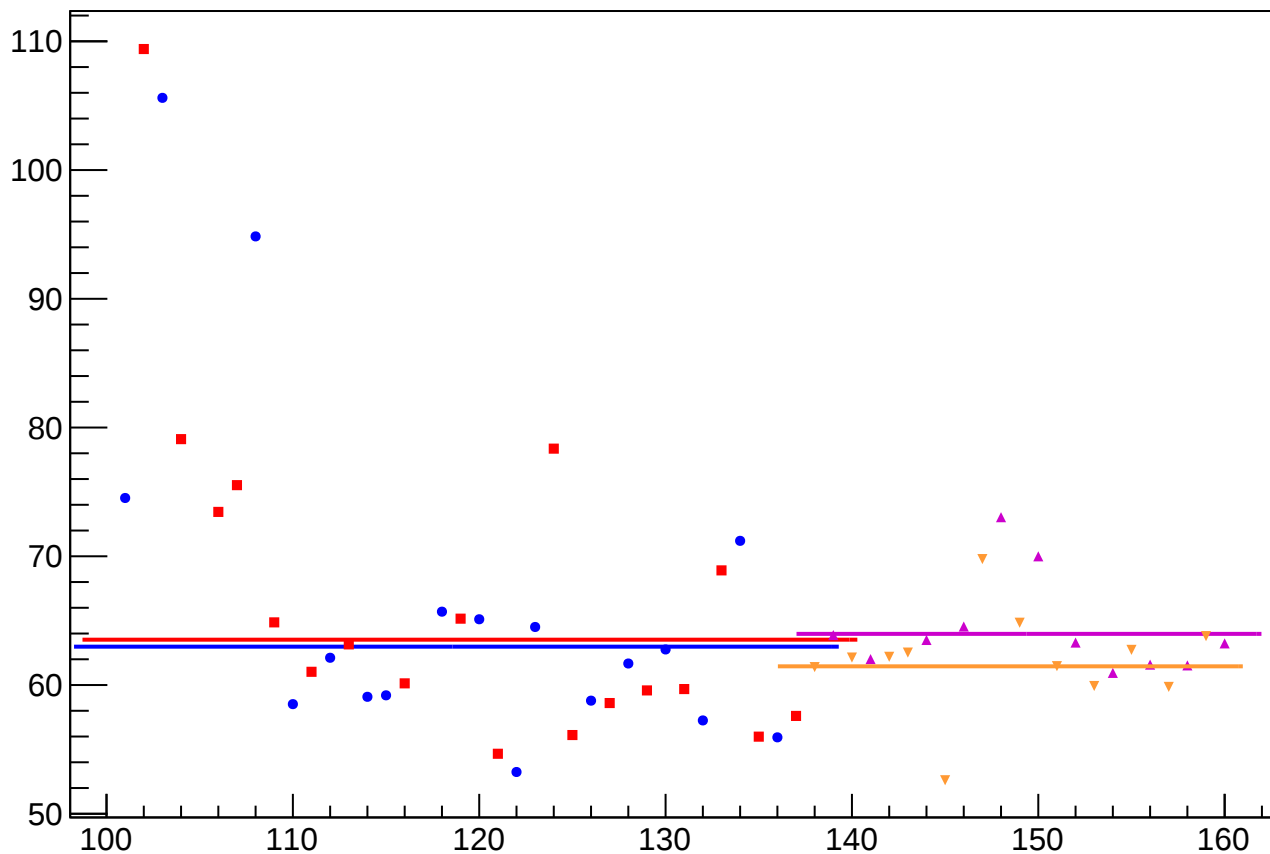
Right:  $25.187 \pm 17.392$   $\chi^2/\text{NDF}: 28.8/34$

In:  $-46.112 \pm 16.141$   $\chi^2/\text{NDF}: 39.6/27$

Out:  $-46.594 \pm 15.691$   $\chi^2/\text{NDF}: 46.0/29$

All:  $-46.360 \pm 11.251$   $\chi^2/\text{NDF}: 85.6/57$

dit\_asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 62.980 $\pm$ 0.017  $\chi^2$ /NDF: 375263.3/16

Left Out: 61.452 $\pm$ 0.014  $\chi^2$ /NDF: 75839.4/11

Right Out: 63.522 $\pm$ 0.017  $\chi^2$ /NDF: 335430.9/17

Left In: 63.974 $\pm$ 0.015  $\chi^2$ /NDF: 49143.3/10

Left: 62.659 $\pm$ 0.010  $\chi^2$ /NDF: 139560.8/22

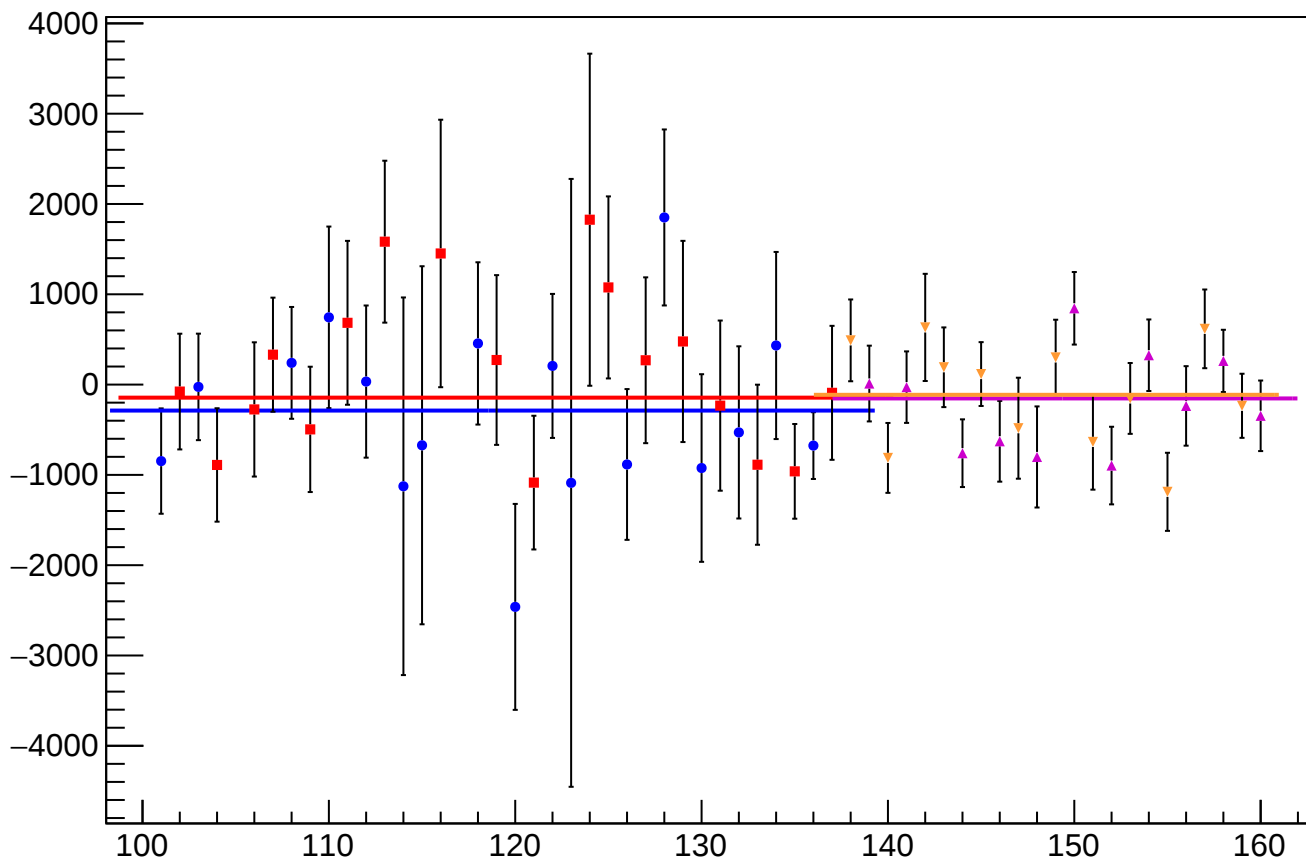
Right: 63.253 $\pm$ 0.012  $\chi^2$ /NDF: 711180.0/34

In: 63.550 $\pm$ 0.011  $\chi^2$ /NDF: 426261.3/27

Out: 62.302 $\pm$ 0.011  $\chi^2$ /NDF: 419692.0/29

All: 62.908 $\pm$ 0.008  $\chi^2$ /NDF: 852097.3/57

asym\_sam\_13\_57\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -287.682 $\pm$ 189.888  $\chi^2$ /NDF: 15.4/16

Left Out: -113.229 $\pm$ 123.947  $\chi^2$ /NDF:19.0/11

Right Out: -144.624 $\pm$ 187.777  $\chi^2$ /NDF: 16.1/17

Left In: -153.383 $\pm$ 123.580  $\chi^2$ /NDF:17.7/10

Left: -133.366 $\pm$ 87.514  $\chi^2$ /NDF: 36.8/22

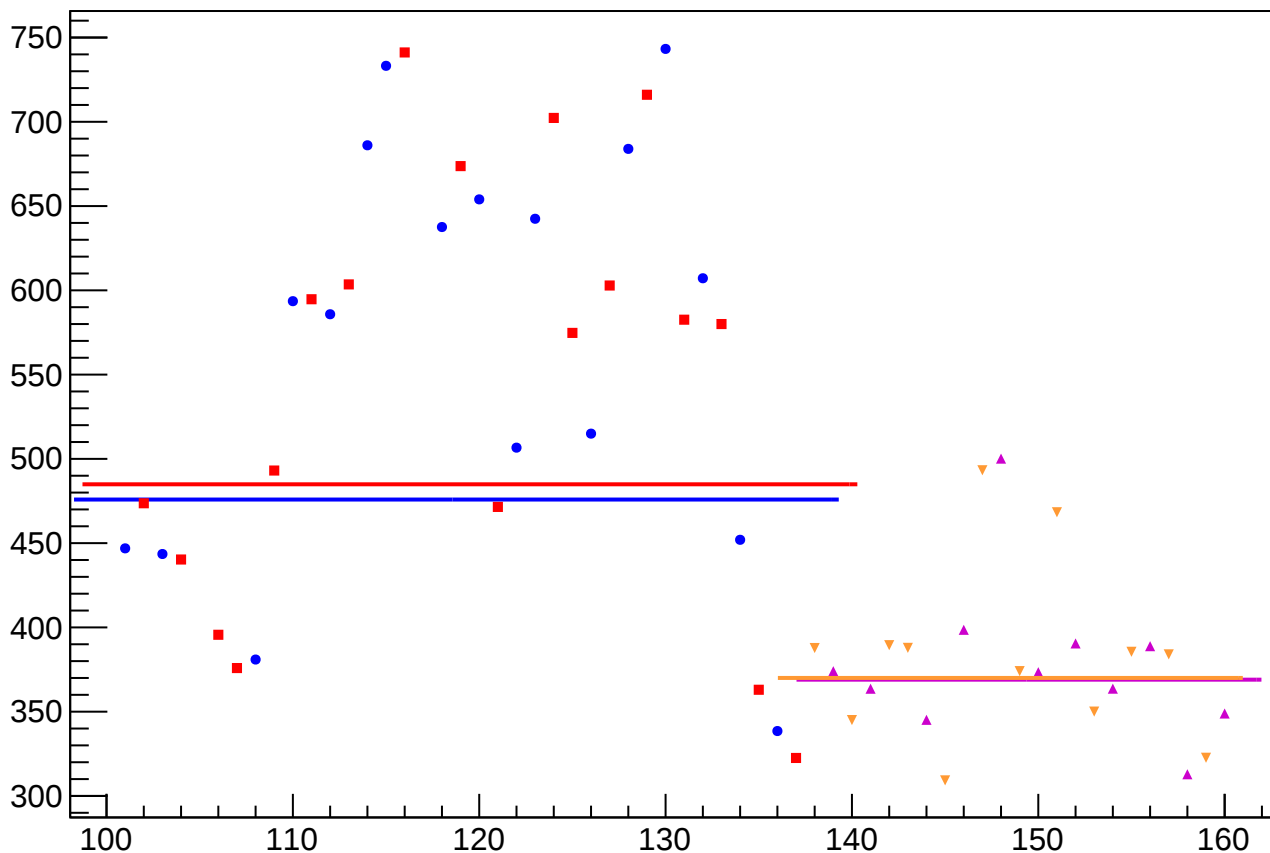
Right: -215.353 $\pm$ 133.518  $\chi^2$ /NDF: 31.7/34

In: -193.341 $\pm$ 103.577  $\chi^2$ /NDF:33.4/27

Out: -122.756 $\pm$ 103.444  $\chi^2$ /NDF:35.1/29

All: -158.003 $\pm$ 73.193  $\chi^2$ /NDF: 68.7/57

asym\_sam\_13\_57\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 475.871+/-0.134  $\chi^2/\text{NDF}$ : 837808.5/16

Left Out: 370.017+/-0.088  $\chi^2/\text{NDF}$ : 287844.5/11

Right Out: 484.914+/-0.133  $\chi^2/\text{NDF}$ : 716315.8/17

Left In: 368.992+/-0.087  $\chi^2/\text{NDF}$ : 195304.7/10

Left: 369.503+/-0.062  $\chi^2/\text{NDF}$ : 483217.8/22

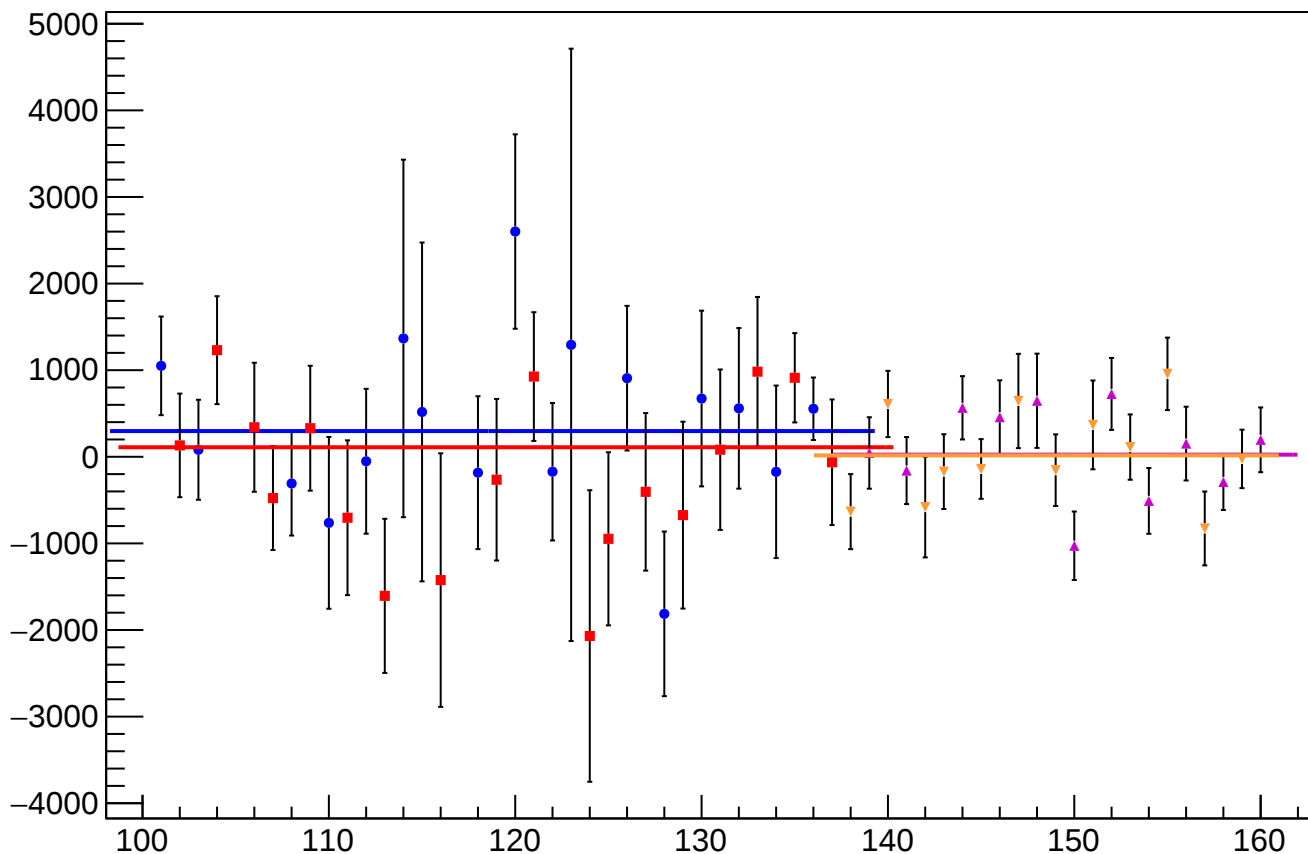
Right: 480.443+/-0.094  $\chi^2/\text{NDF}$ : 1556417.6/34

In: 400.792+/-0.073  $\chi^2/\text{NDF}$ : 1478202.1/27

Out: 404.886+/-0.073  $\chi^2/\text{NDF}$ : 1525710.2/29

All: 402.841+/-0.052  $\chi^2/\text{NDF}$ : 3005476.8/57

asym\_sam\_13\_57\_dd\_mean vs Slug, Sign Corrected



Right In: 296.984 $\pm$ 185.975  $\chi^2$ /NDF: 15.9/16

Left Out: 16.408 $\pm$ 120.414  $\chi^2$ /NDF:17.1/11

Right Out: 110.141 $\pm$ 184.400  $\chi^2$ /NDF: 18.5/17

Left In: 24.570 $\pm$ 119.306  $\chi^2$ /NDF:17.9/10

Left: 20.527 $\pm$ 84.751  $\chi^2$ /NDF: 35.0/22

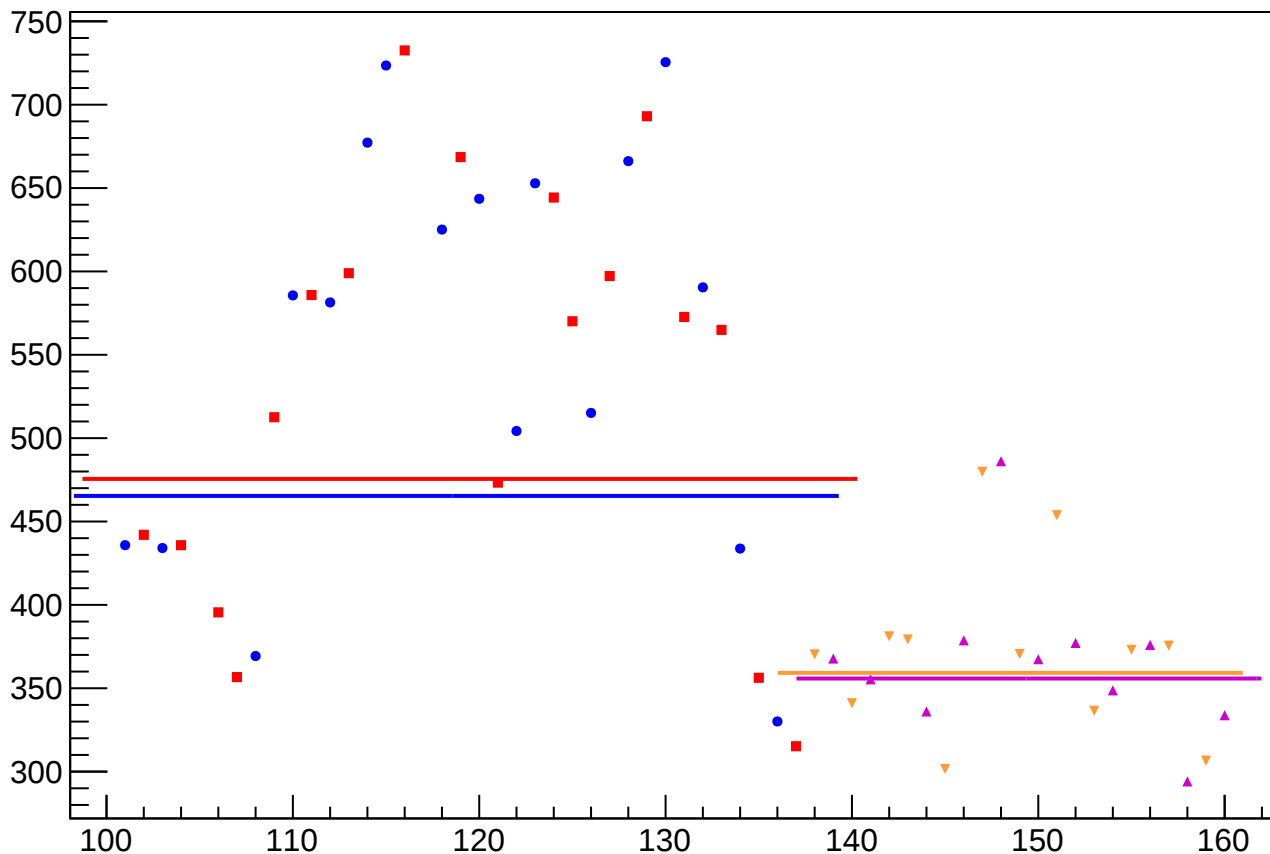
Right: 202.768 $\pm$ 130.944  $\chi^2$ /NDF: 34.9/34

In: 103.994 $\pm$ 100.419  $\chi^2$ /NDF:35.3/27

Out: 44.428 $\pm$ 100.822  $\chi^2$ /NDF:35.9/29

All: 74.330 $\pm$ 71.149  $\chi^2$ /NDF: 71.3/57

asym\_sam\_13\_57\_dd\_rms vs Slug, Sign Corrected



Right In: 465.356+/-0.132  $\chi^2/\text{NDF}$ : 860420.4/16

Left Out: 359.225+/-0.085  $\chi^2/\text{NDF}$ : 297796.8/11

Right Out: 475.559+/-0.130  $\chi^2/\text{NDF}$ : 740849.9/17

Left In: 355.841+/-0.084  $\chi^2/\text{NDF}$ : 219651.0/10

Left: 357.517+/-0.060  $\chi^2/\text{NDF}$ : 518245.0/22

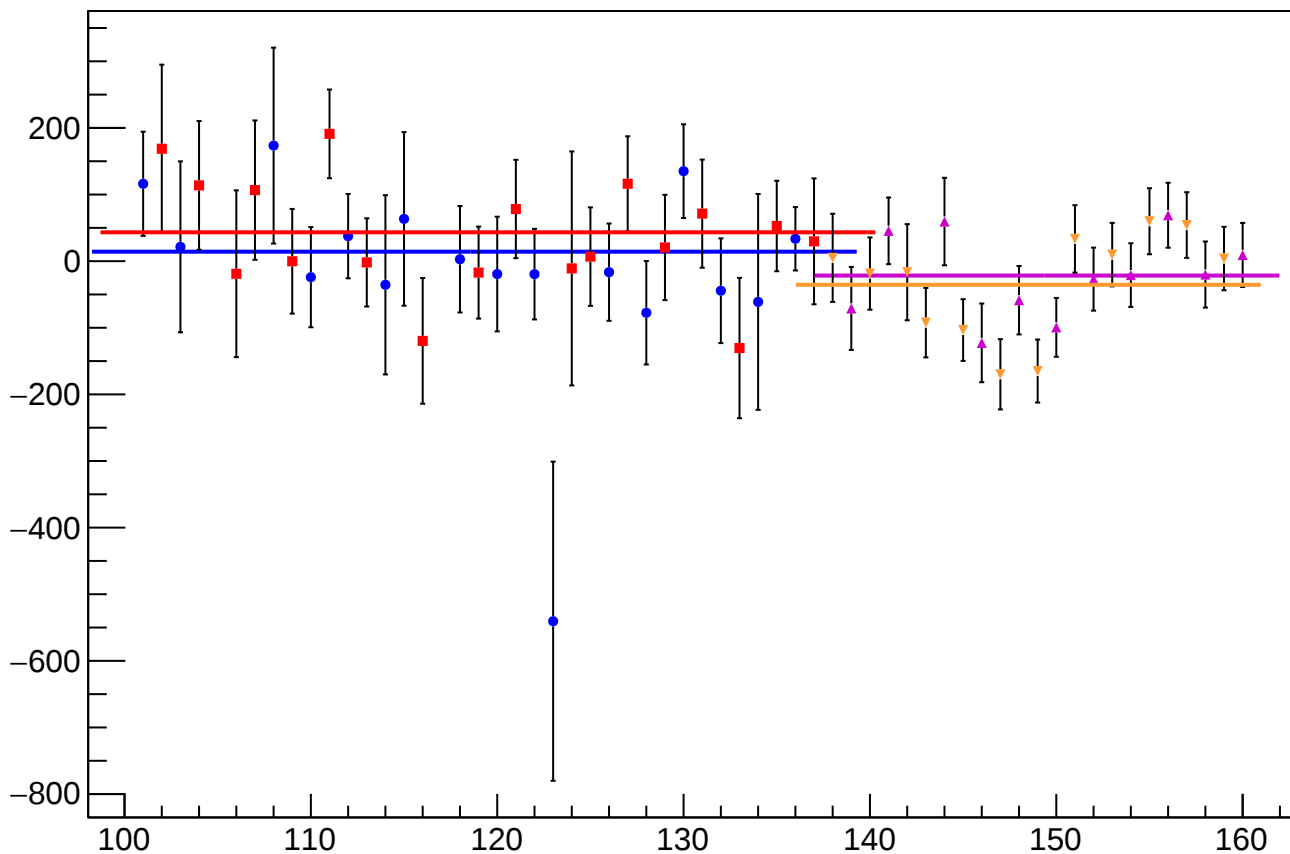
Right: 470.501+/-0.093  $\chi^2/\text{NDF}$ : 1604306.1/34

In: 387.770+/-0.071  $\chi^2/\text{NDF}$ : 1571398.5/27

Out: 394.002+/-0.071  $\chi^2/\text{NDF}$ : 1596700.0/29

All: 390.874+/-0.050  $\chi^2/\text{NDF}$ : 3171934.0/57

dit\_asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In:  $14.253 \pm 19.867$   $\chi^2/\text{NDF}$ : 14.8/16

Left Out:  $-35.503 \pm 14.922$   $\chi^2/\text{NDF}$ : 28.3/11

Right Out:  $43.336 \pm 19.650$   $\chi^2/\text{NDF}$ : 16.2/17

Left In:  $-21.612 \pm 15.410$   $\chi^2/\text{NDF}$ : 14.4/10

Left:  $-28.781 \pm 10.720$   $\chi^2/\text{NDF}$ : 43.1/22

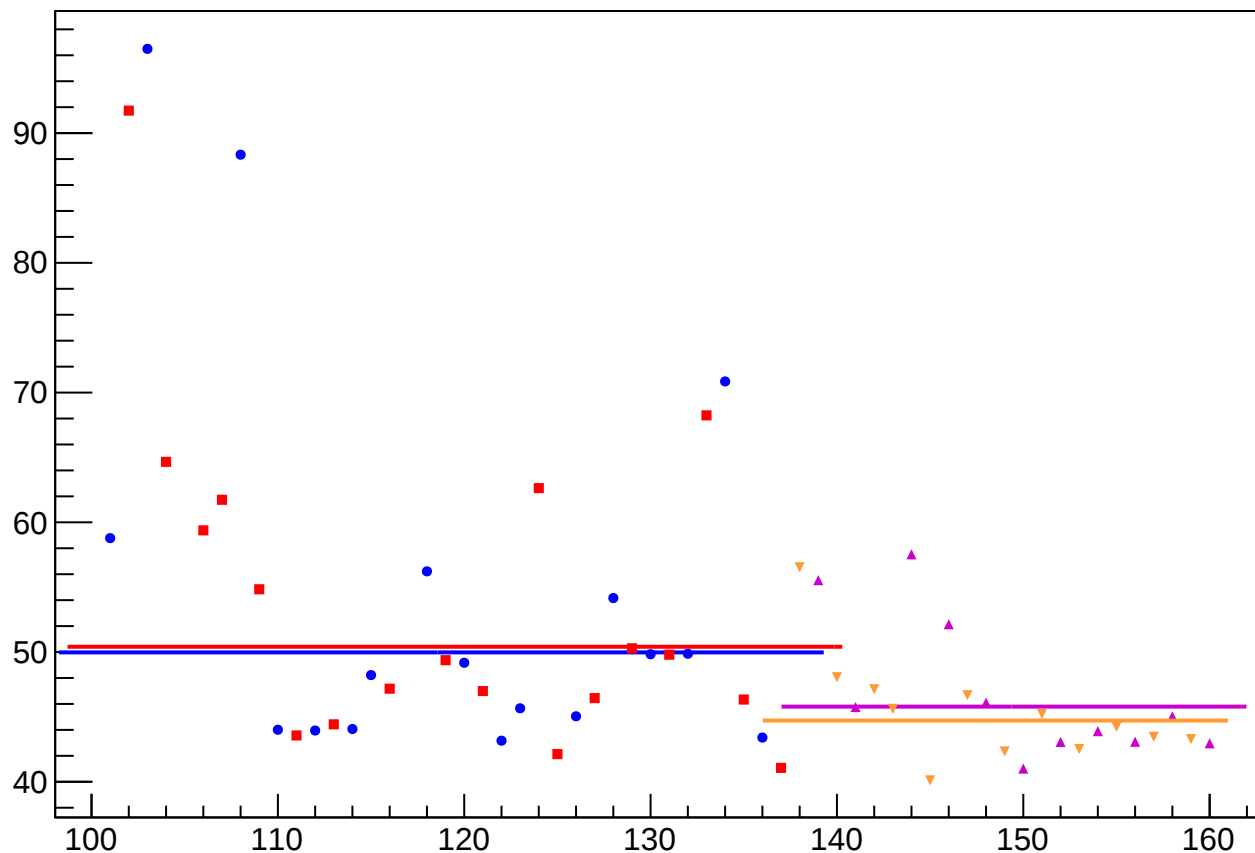
Right:  $28.954 \pm 13.971$   $\chi^2/\text{NDF}$ : 32.0/34

In:  $-8.140 \pm 12.176$   $\chi^2/\text{NDF}$ : 31.2/27

Out:  $-6.667 \pm 11.884$   $\chi^2/\text{NDF}$ : 54.7/29

All:  $-7.386 \pm 8.505$   $\chi^2/\text{NDF}$ : 85.9/57

dit\_asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 49.973 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 578750.7/16

Left Out: 44.721 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 109509.2/11

Right Out: 50.408 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 467481.4/17

Left In: 45.794 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 182734.6/10

Left: 45.240 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 297248.1/22

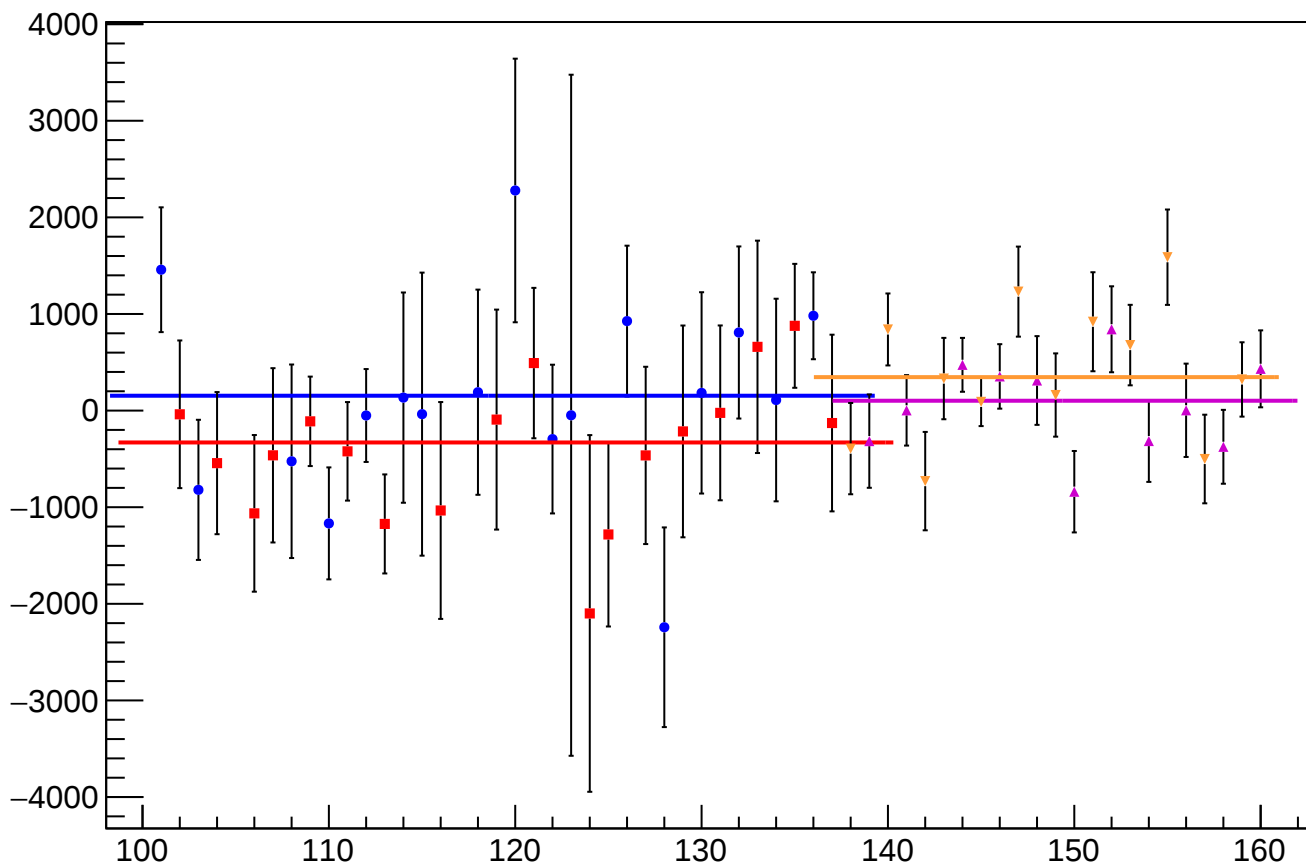
Right: 50.193 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 1046716.4/34

In: 47.364 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 816752.8/27

Out: 46.801 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 683257.6/29

All: 47.075 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 1502198.9/57

asym\_sam\_15\_37\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 153.842 $\pm$ 189.963  $\chi^2$ /NDF: 24.8/16

Left Out: 346.274 $\pm$ 117.611  $\chi^2$ /NDF:25.1/11

Right Out: -329.952 $\pm$ 179.795  $\chi^2$ /NDF: 12.1/17

Left In: 101.973 $\pm$ 117.784  $\chi^2$ /NDF:14.4/10

Left: 224.304 $\pm$ 83.225  $\chi^2$ /NDF: 41.7/22

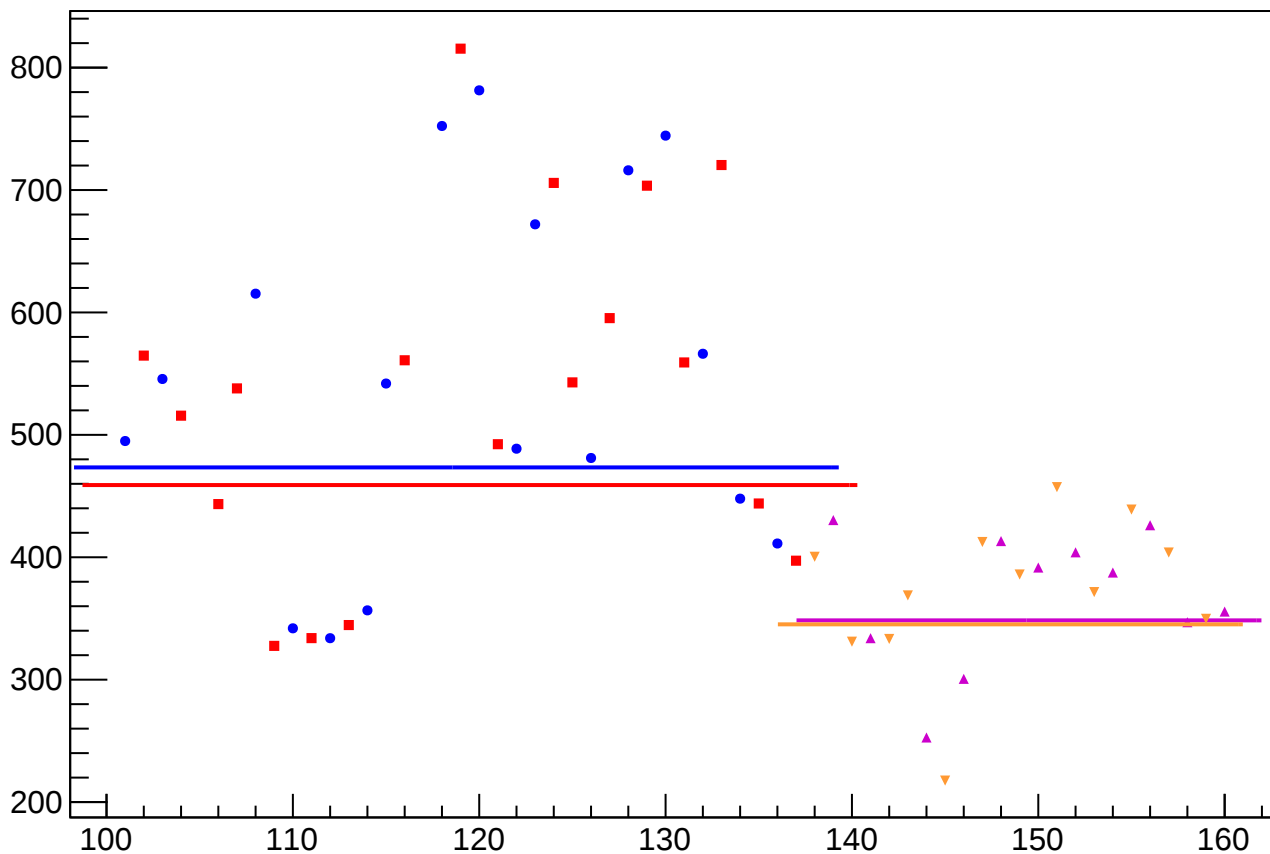
Right: -101.350 $\pm$ 130.581  $\chi^2$ /NDF: 40.3/34

In: 116.376 $\pm$ 100.104  $\chi^2$ /NDF:39.2/27

Out: 143.629 $\pm$ 98.423  $\chi^2$ /NDF:47.1/29

All: 130.233 $\pm$ 70.182  $\chi^2$ /NDF: 86.4/57

asym\_sam\_15\_37\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 473.406+/-0.134  $\chi^2/\text{NDF}$ : 914927.8/16

Left Out: 345.205+/-0.083  $\chi^2/\text{NDF}$ : 825254.0/11

Right Out: 458.988+/-0.127  $\chi^2/\text{NDF}$ : 1006257.2/17

Left In: 348.446+/-0.083  $\chi^2/\text{NDF}$ : 498551.6/10

Left: 346.823+/-0.059  $\chi^2/\text{NDF}$ : 1324564.0/22

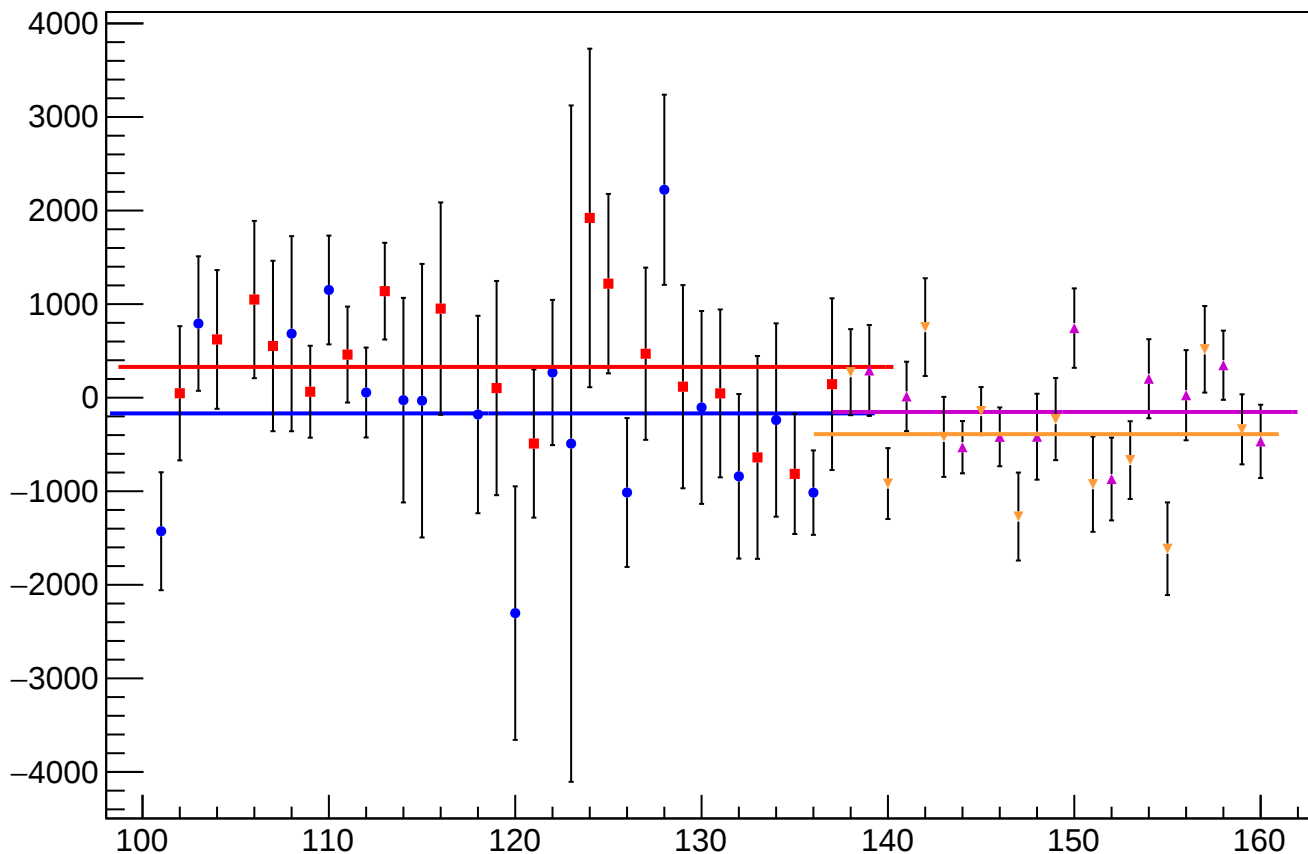
Right: 465.801+/-0.092  $\chi^2/\text{NDF}$ : 1927262.4/34

In: 383.147+/-0.071  $\chi^2/\text{NDF}$ : 2038589.9/27

Out: 379.303+/-0.070  $\chi^2/\text{NDF}$ : 2392475.0/29

All: 381.192+/-0.050  $\chi^2/\text{NDF}$ : 4432564.5/57

asym\_sam\_15\_37\_dd\_mean vs Slug, Sign Corrected



Right In: -168.049+/-189.758  $\chi^2/\text{NDF}$ : 25.4/16

Left Out: -389.607+/-118.479  $\chi^2/\text{NDF}$ :24.9/11

Right Out: 328.598+/-181.559  $\chi^2/\text{NDF}$ : 11.1/17

Left In: -152.713+/-116.600  $\chi^2/\text{NDF}$ :14.3/10

Left: -269.266+/-83.105  $\chi^2/\text{NDF}$ : 41.2/22

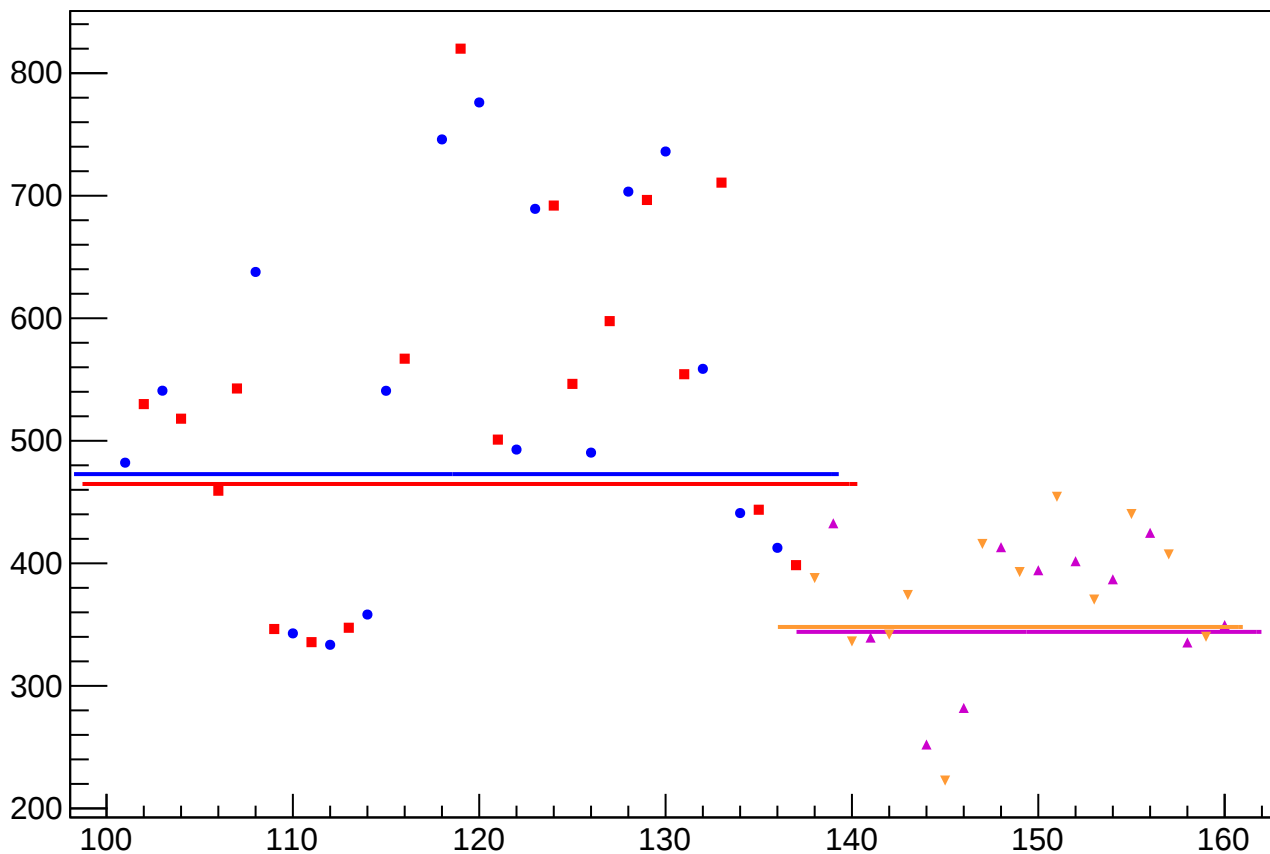
Right: 91.236+/-131.185  $\chi^2/\text{NDF}$ : 40.1/34

In: -156.916+/-99.344  $\chi^2/\text{NDF}$ :39.7/27

Out: -175.107+/-99.222  $\chi^2/\text{NDF}$ :47.0/29

All: -166.023+/-70.204  $\chi^2/\text{NDF}$ : 86.7/57

# asym\_sam\_15\_37\_dd\_rms vs Slug, Sign Corrected



Right In: 472.820 $\pm$ 0.134  $\chi^2$ /NDF: 896373.5/16

Left Out: 348.076 $\pm$ 0.084  $\chi^2$ /NDF: 759206.6/11

Right Out: 464.761 $\pm$ 0.128  $\chi^2$ /NDF: 914781.1/17

Left In: 344.059 $\pm$ 0.082  $\chi^2$ /NDF: 546994.0/10

Left: 346.035 $\pm$ 0.059  $\chi^2$ /NDF: 1307367.9/22

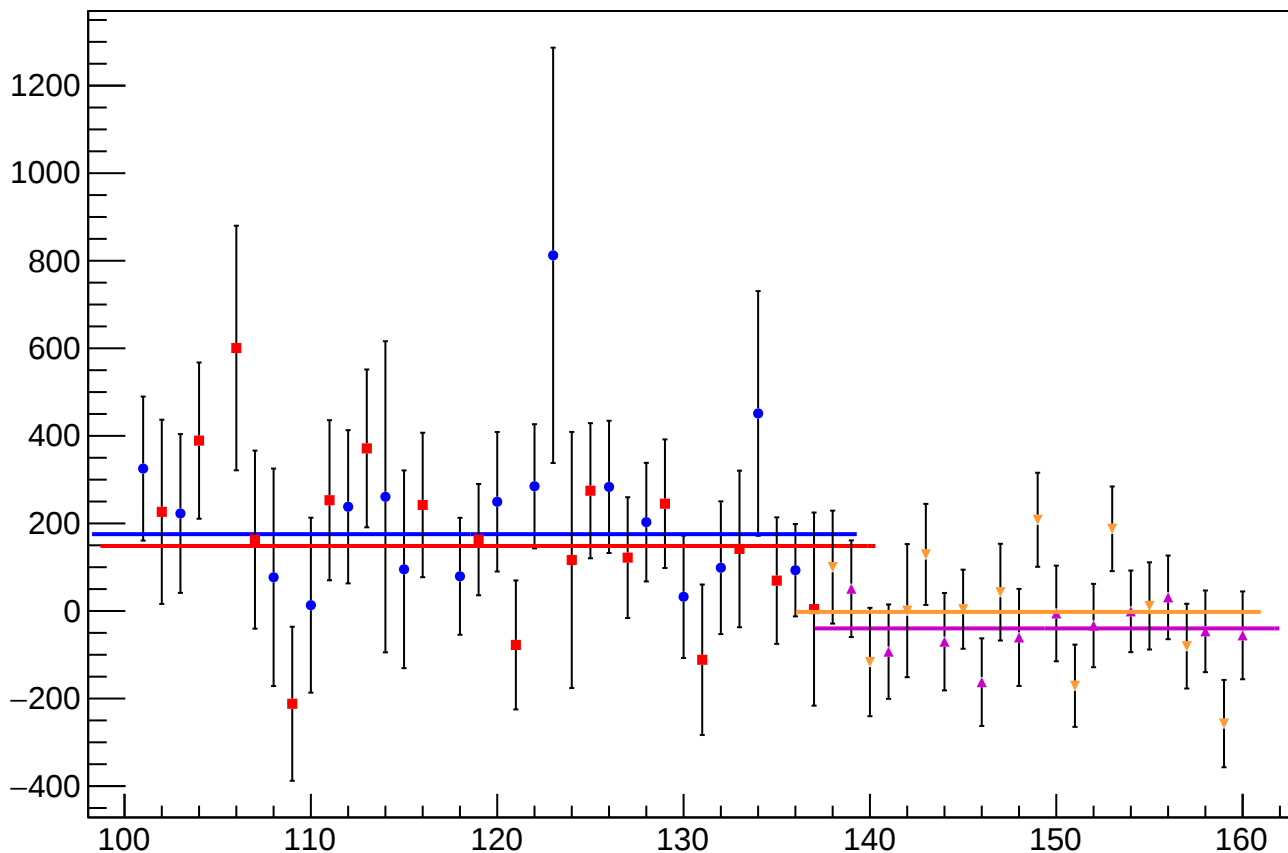
Right: 468.612 $\pm$ 0.093  $\chi^2$ /NDF: 1813037.9/34

In: 379.351 $\pm$ 0.070  $\chi^2$ /NDF: 2111833.3/27

Out: 382.925 $\pm$ 0.070  $\chi^2$ /NDF: 2253351.6/29

All: 381.140 $\pm$ 0.050  $\chi^2$ /NDF: 4366480.9/57

dit\_asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In:  $175.468 \pm 40.358$   $\chi^2/\text{NDF}: 8.6/16$

Left Out:  $-2.157 \pm 30.664$   $\chi^2/\text{NDF}: 21.1/11$

Right Out:  $148.445 \pm 40.332$   $\chi^2/\text{NDF}: 17.5/17$

Left In:  $-39.822 \pm 30.668$   $\chi^2/\text{NDF}: 3.4/10$

Left:  $-20.987 \pm 21.684$   $\chi^2/\text{NDF}: 25.2/22$

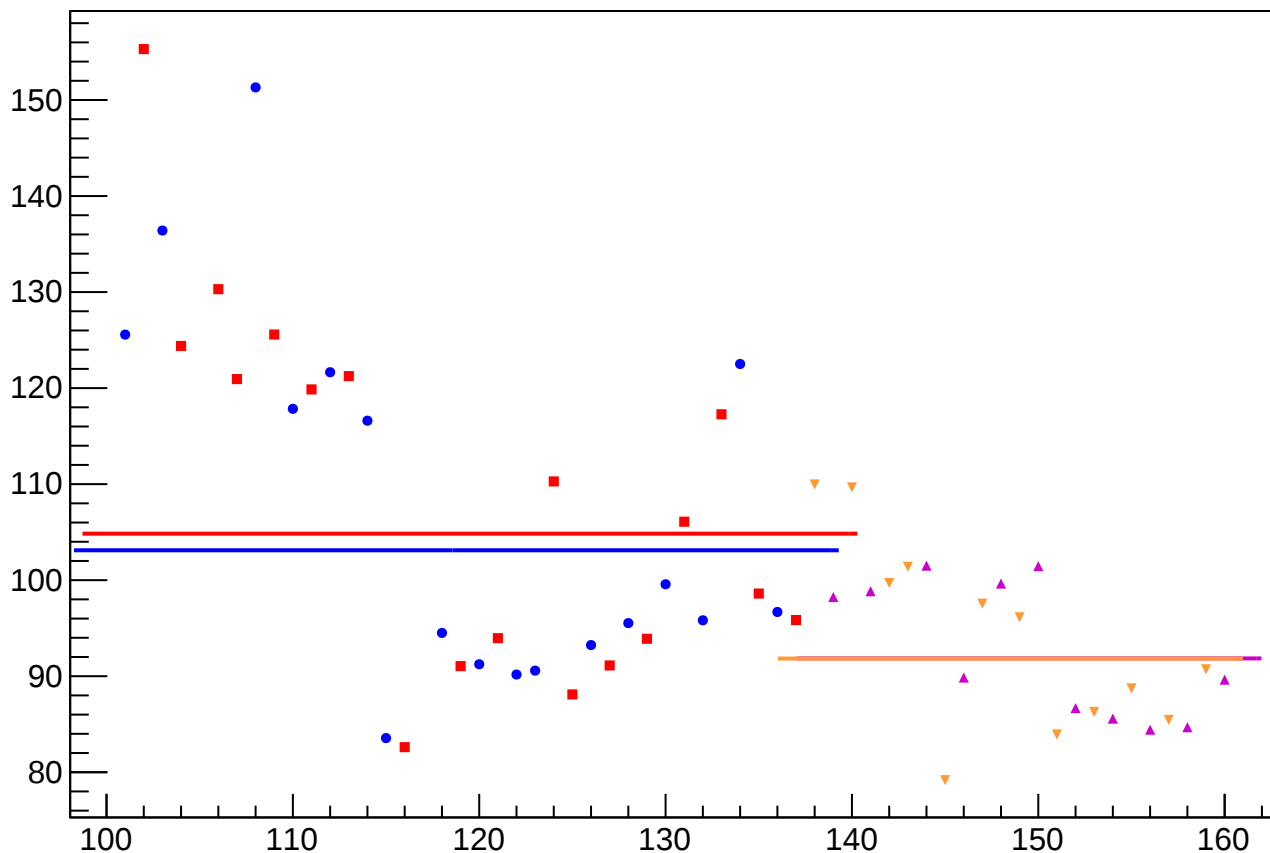
Right:  $161.947 \pm 28.528$   $\chi^2/\text{NDF}: 26.3/34$

In:  $38.987 \pm 24.418$   $\chi^2/\text{NDF}: 30.0/27$

Out:  $53.009 \pm 24.410$   $\chi^2/\text{NDF}: 47.4/29$

All:  $46.000 \pm 17.263$   $\chi^2/\text{NDF}: 77.6/57$

dit\_asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 103.112 $\pm$ 0.029  $\chi^2$ /NDF: 306438.5/16

Left Out: 91.837 $\pm$ 0.022  $\chi^2$ /NDF:179654.7/11

Right Out: 104.844 $\pm$ 0.029  $\chi^2$ /NDF: 368677.3/17

Left In: 91.852 $\pm$ 0.022  $\chi^2$ /NDF:96168.4/10

Left: 91.844 $\pm$ 0.015  $\chi^2$ /NDF: 275823.3/22

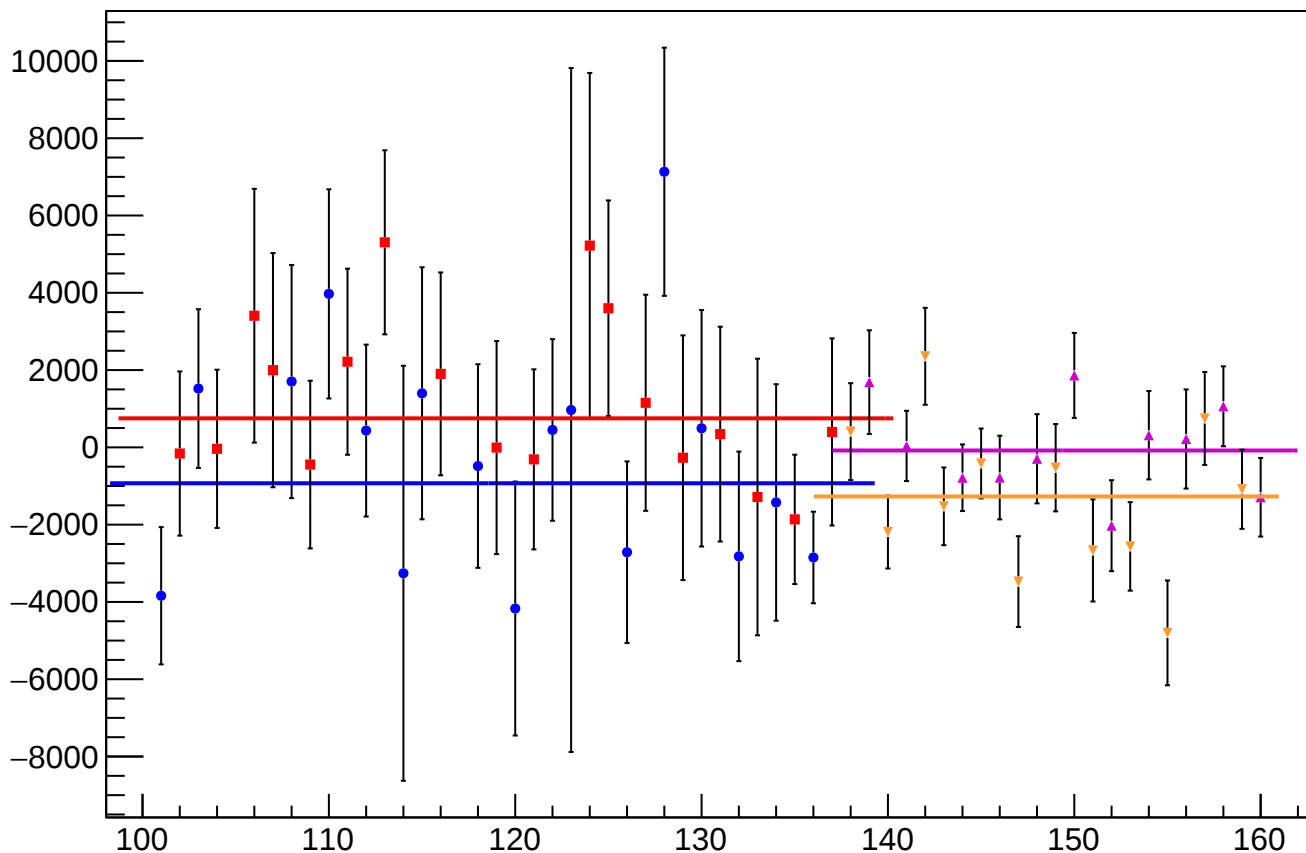
Right: 103.979 $\pm$ 0.020  $\chi^2$ /NDF: 676958.3/34

In: 95.974 $\pm$ 0.017  $\chi^2$ /NDF:501311.2/27

Out: 96.601 $\pm$ 0.017  $\chi^2$ /NDF:680147.6/29

All: 96.288 $\pm$ 0.012  $\chi^2$ /NDF: 1182120.3/57

asym\_sam\_24\_68\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: -928.932 $\pm$ 586.968  $\chi^2$ /NDF: 20.9/16

Left Out: -1270.764 $\pm$ 322.146  $\chi^2$ /NDF:28.0/11

Right Out: 751.262 $\pm$ 594.960  $\chi^2$ /NDF: 10.9/17

Left In: -80.612 $\pm$ 323.850  $\chi^2$ /NDF:11.5/10

Left: -678.827 $\pm$ 228.392  $\chi^2$ /NDF: 46.4/22

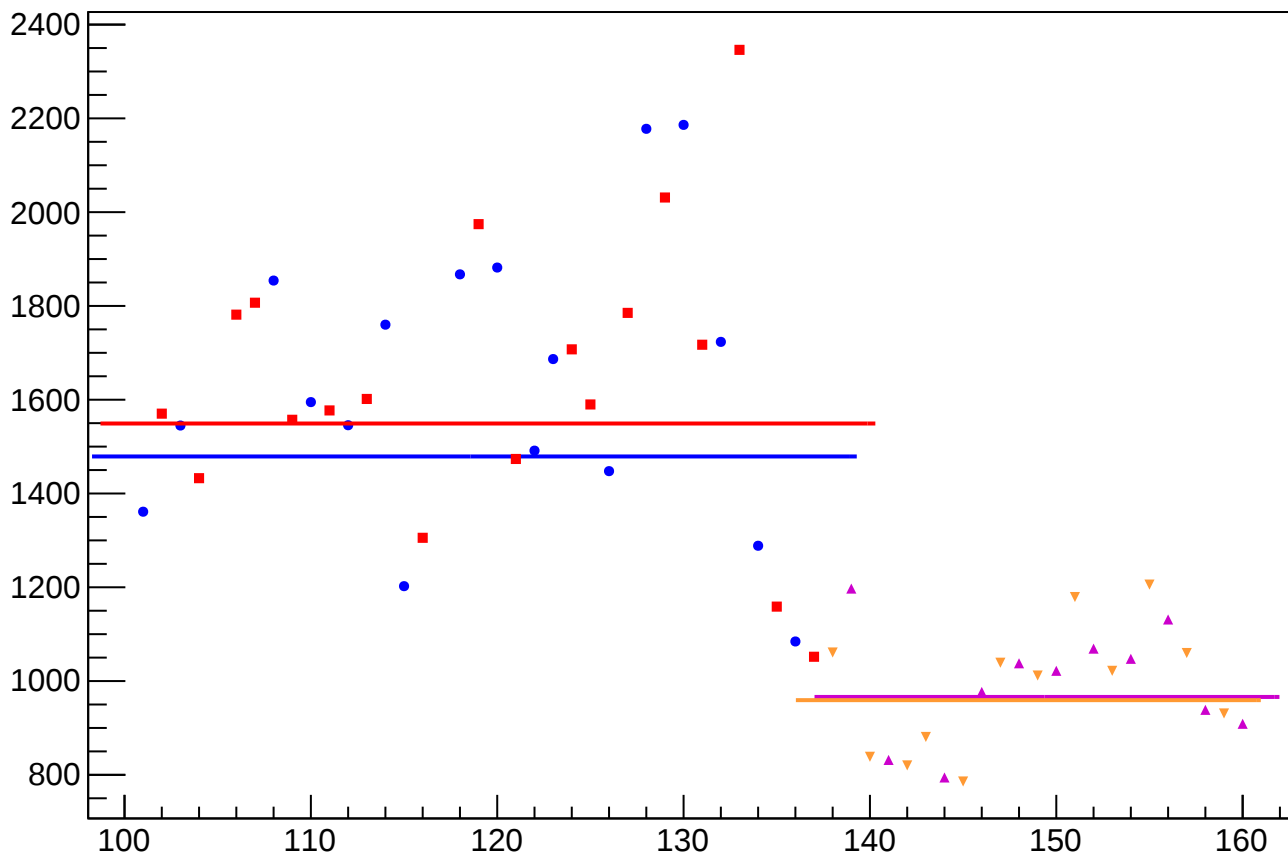
Right: -100.195 $\pm$ 417.846  $\chi^2$ /NDF: 35.8/34

In: -278.584 $\pm$ 283.555  $\chi^2$ /NDF:34.0/27

Out: -812.349 $\pm$ 283.285  $\chi^2$ /NDF:47.9/29

All: -545.720 $\pm$ 200.408  $\chi^2$ /NDF: 83.7/57

asym\_sam\_24\_68\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 1478.991+/-0.415  $\chi^2/\text{NDF}$ : 589620.8/16

Left Out: 959.291+/-0.228  $\chi^2/\text{NDF}$ : 312701.1/11

Right Out: 1549.266+/-0.421  $\chi^2/\text{NDF}$ : 462557.8/17

Left In: 966.127+/-0.229  $\chi^2/\text{NDF}$ : 261763.8/10

Left: 962.691+/-0.161  $\chi^2/\text{NDF}$ : 574912.8/22

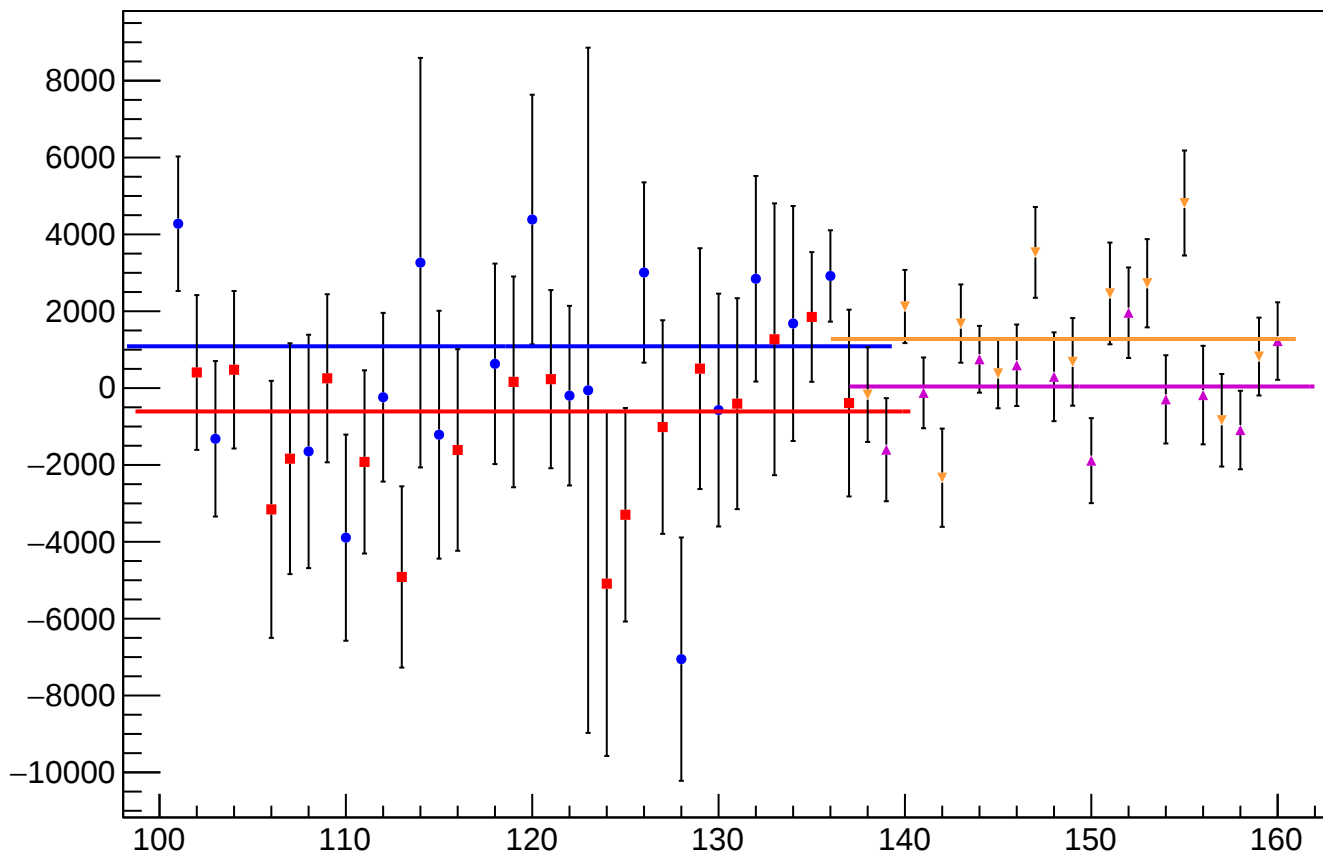
Right: 1513.653+/-0.295  $\chi^2/\text{NDF}$ : 1066318.9/34

In: 1085.814+/-0.201  $\chi^2/\text{NDF}$ : 2021940.6/27

Out: 1093.044+/-0.200  $\chi^2/\text{NDF}$ : 2296032.6/29

All: 1089.432+/-0.142  $\chi^2/\text{NDF}$ : 4318624.1/57

asym\_sam\_24\_68\_dd\_mean vs Slug, Sign Corrected



Right In: 1087.987 $\pm$ 583.326  $\chi^2$ /NDF: 21.8/16

Left Out: 1277.587 $\pm$ 323.294  $\chi^2$ /NDF:27.6/11

Right Out: -607.930 $\pm$ 591.550  $\chi^2$ /NDF: 9.9/17

Left In: 41.848 $\pm$ 323.685  $\chi^2$ /NDF:10.9/10

Left: 660.463 $\pm$ 228.742  $\chi^2$ /NDF: 45.8/22

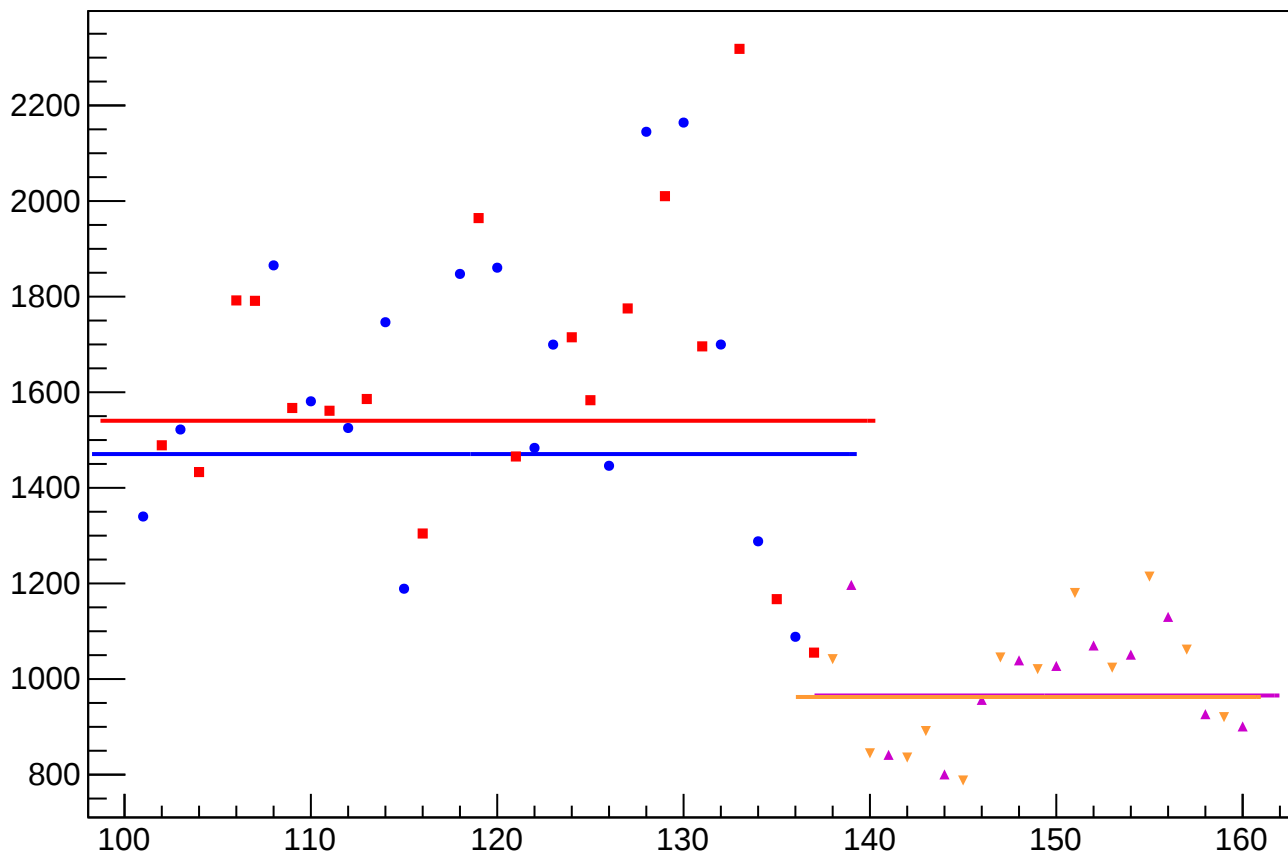
Right: 251.899 $\pm$ 415.351  $\chi^2$ /NDF: 35.9/34

In: 288.130 $\pm$ 283.031  $\chi^2$ /NDF:35.2/27

Out: 843.937 $\pm$ 283.691  $\chi^2$ /NDF:45.3/29

All: 565.386 $\pm$ 200.366  $\chi^2$ /NDF: 82.5/57

# asym\_sam\_24\_68\_dd\_rms vs Slug, Sign Corrected



Right In: 1470.683 $\pm$ 0.412  $\chi^2/\text{NDF}$ : 567728.4/16

Left Out: 962.496 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 302167.7/11

Right Out: 1540.341 $\pm$ 0.418  $\chi^2/\text{NDF}$ : 442804.3/17

Left In: 965.607 $\pm$ 0.229  $\chi^2/\text{NDF}$ : 253476.5/10

Left: 964.050 $\pm$ 0.162  $\chi^2/\text{NDF}$ : 555736.8/22

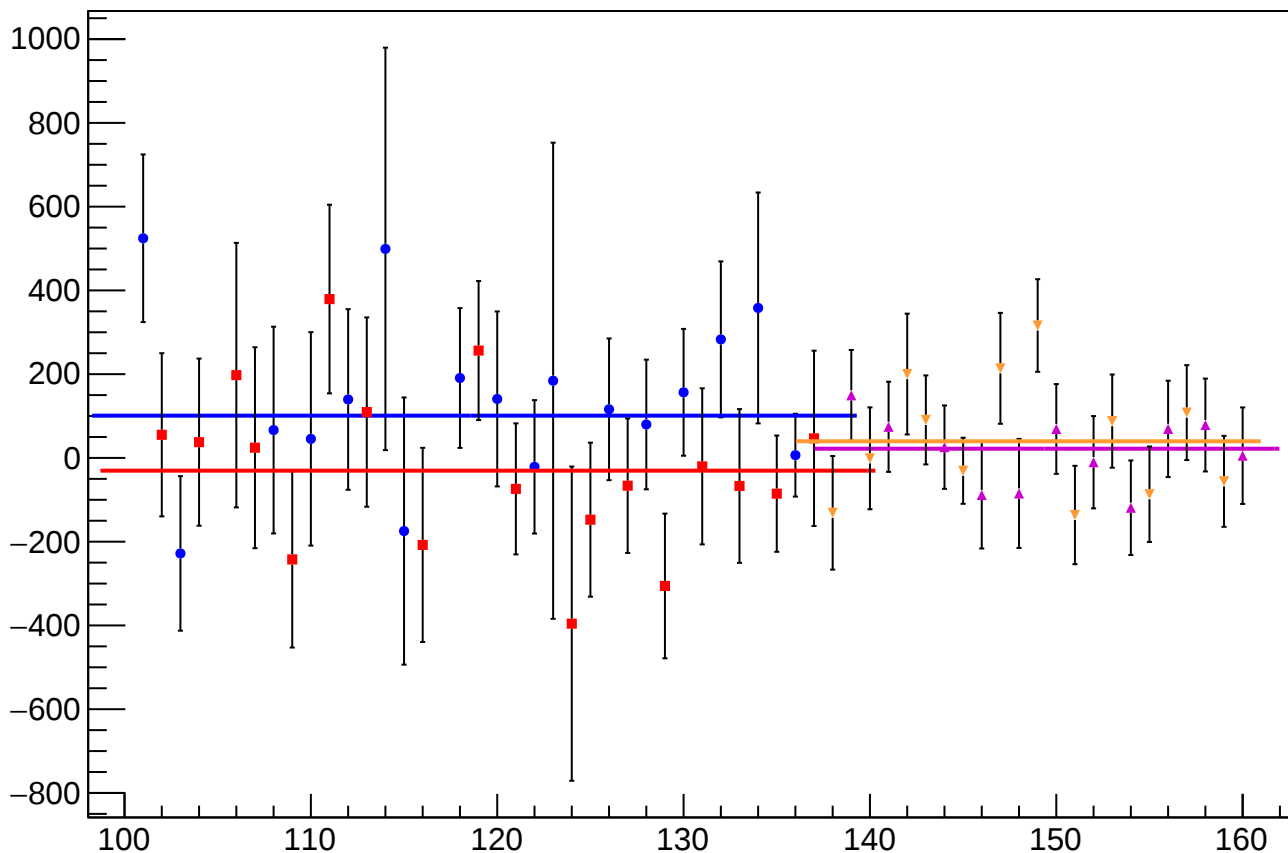
Right: 1505.024 $\pm$ 0.294  $\chi^2/\text{NDF}$ : 1024593.2/34

In: 1084.512 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 1967618.6/27

Out: 1095.394 $\pm$ 0.201  $\chi^2/\text{NDF}$ : 2214461.6/29

All: 1089.941 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 4183554.9/57

dit\_asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In:  $100.918 \pm 45.284$   $\chi^2/\text{NDF}: 13.0/16$

Left Out:  $39.798 \pm 32.428$   $\chi^2/\text{NDF}: 16.8/11$

Right Out:  $-30.411 \pm 45.710$   $\chi^2/\text{NDF}: 13.5/17$

Left In:  $21.997 \pm 33.847$   $\chi^2/\text{NDF}: 5.3/10$

Left:  $31.278 \pm 23.415$   $\chi^2/\text{NDF}: 22.2/22$

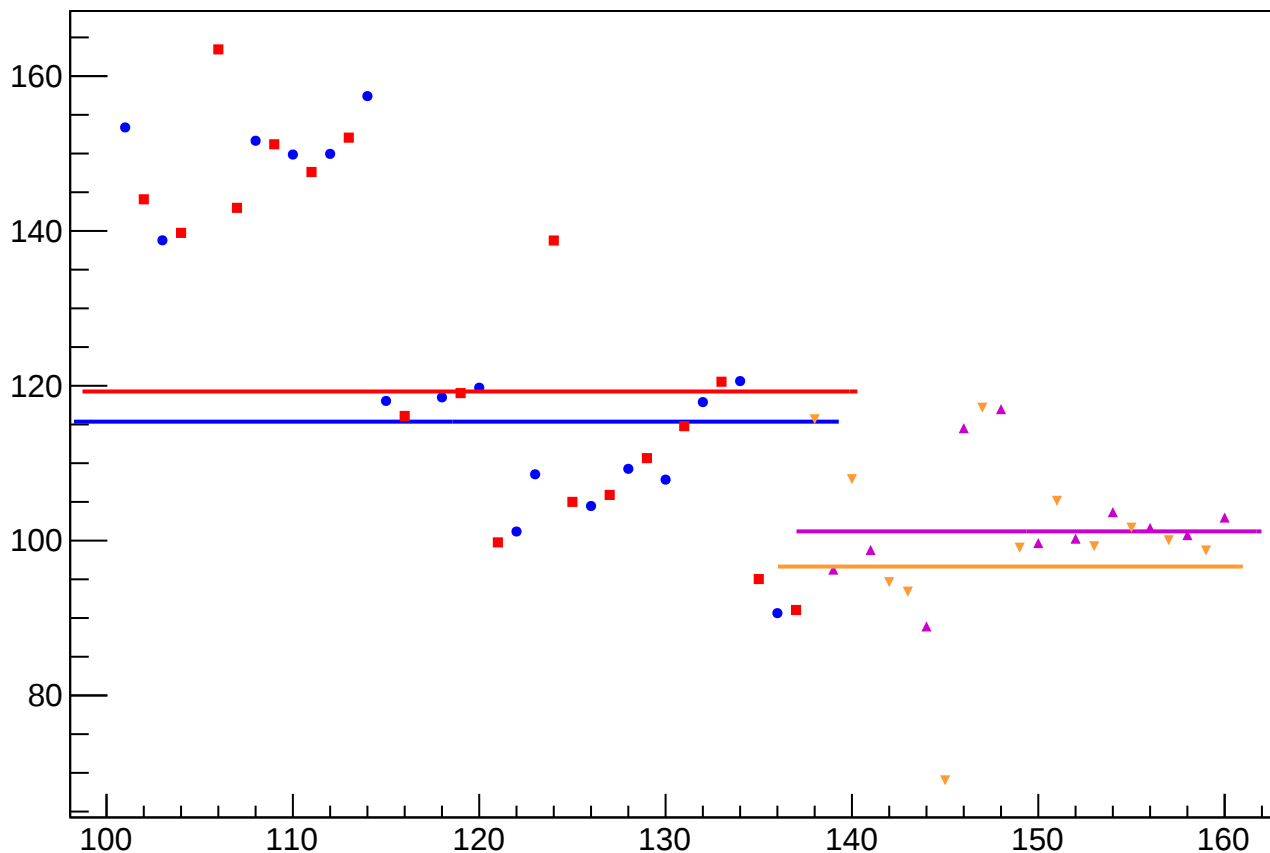
Right:  $35.869 \pm 32.170$   $\chi^2/\text{NDF}: 30.7/34$

In:  $50.284 \pm 27.111$   $\chi^2/\text{NDF}: 20.3/27$

Out:  $16.293 \pm 26.448$   $\chi^2/\text{NDF}: 31.8/29$

All:  $32.868 \pm 18.932$   $\chi^2/\text{NDF}: 52.9/57$

dit\_asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 115.366 $\pm$ 0.032  $\chi^2$ /NDF: 411362.6/16

Left Out: 96.650 $\pm$ 0.023  $\chi^2$ /NDF:370715.6/11

Right Out: 119.263 $\pm$ 0.032  $\chi^2$ /NDF: 398318.1/17

Left In: 101.192 $\pm$ 0.024  $\chi^2$ /NDF:88812.0/10

Left: 98.824 $\pm$ 0.017  $\chi^2$ /NDF: 478309.6/22

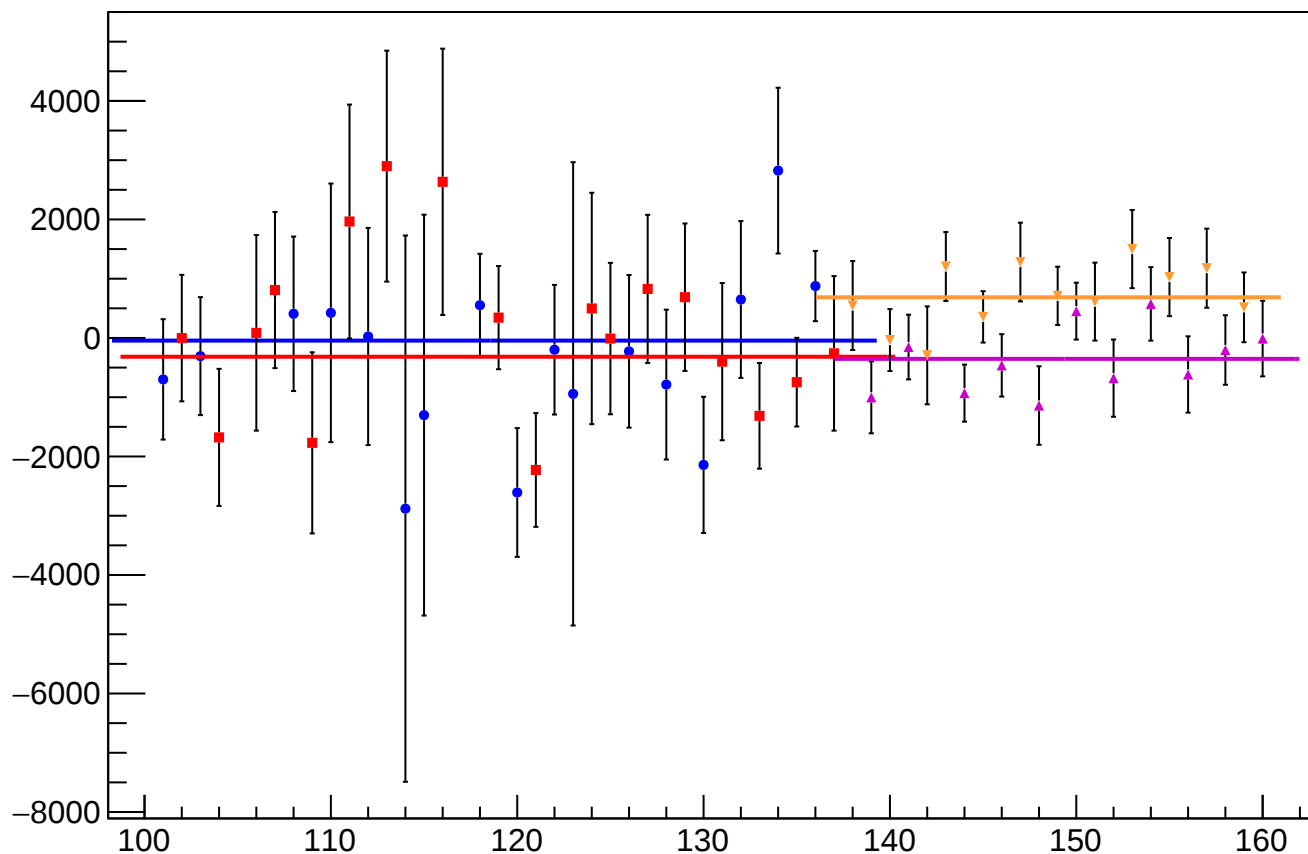
Right: 117.296 $\pm$ 0.023  $\chi^2$ /NDF: 817014.4/34

In: 106.273 $\pm$ 0.019  $\chi^2$ /NDF:625889.9/27

Out: 104.220 $\pm$ 0.019  $\chi^2$ /NDF:1094629.2/29

All: 105.221 $\pm$ 0.013  $\chi^2$ /NDF: 1726390.8/57

asym\_sam\_26\_48\_dd\_correction\_mean vs Slug, Sign Corrected



Right In:  $-44.553 \pm 286.284$   $\chi^2/\text{NDF}: 17.9/16$

Left Out:  $686.114 \pm 172.456$   $\chi^2/\text{NDF}: 8.0/11$

Right Out:  $-316.976 \pm 283.113$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $-352.706 \pm 173.186$   $\chi^2/\text{NDF}: 10.0/10$

Left:  $168.896 \pm 122.202$   $\chi^2/\text{NDF}: 36.0/22$

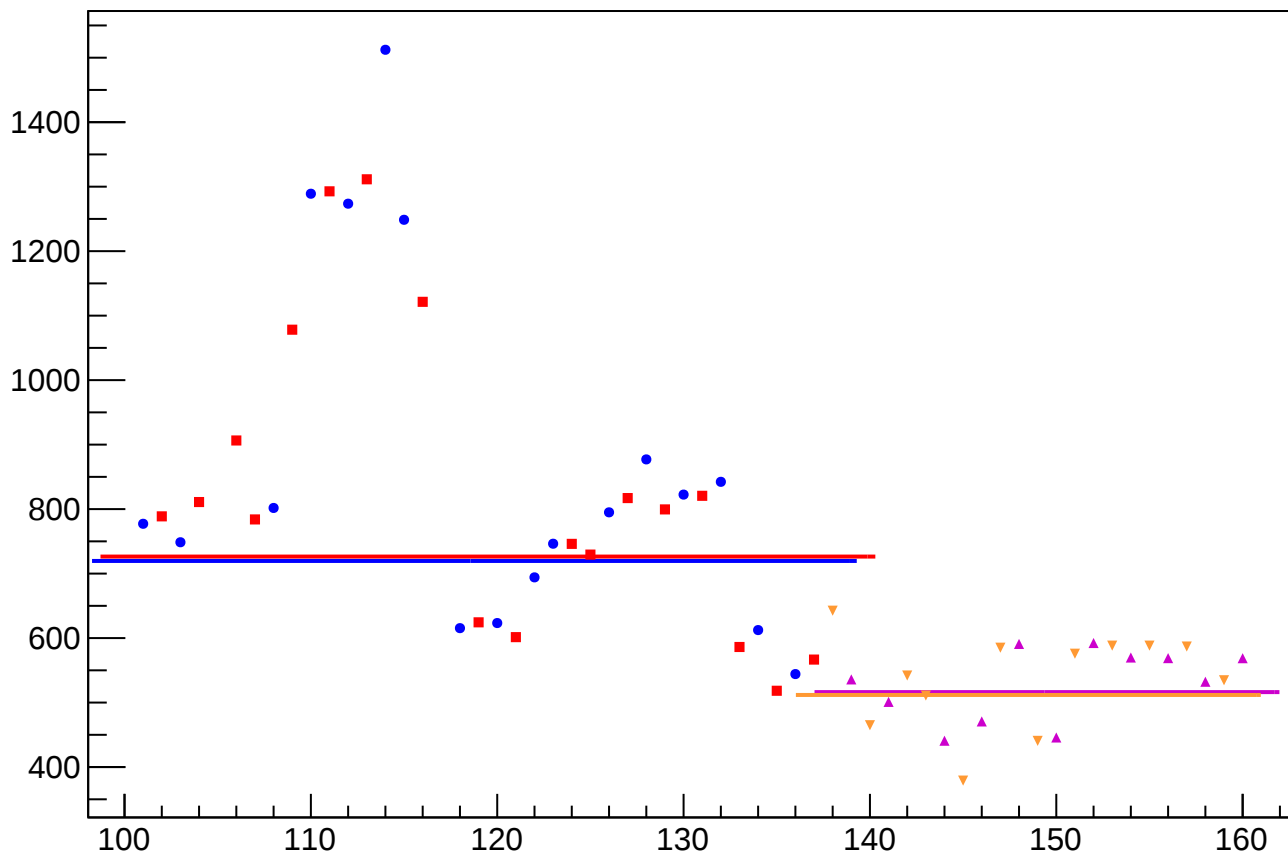
Right:  $-182.282 \pm 201.303$   $\chi^2/\text{NDF}: 35.1/34$

In:  $-270.148 \pm 148.181$   $\chi^2/\text{NDF}: 28.7/27$

Out:  $414.643 \pm 147.283$   $\chi^2/\text{NDF}: 33.9/29$

All:  $74.330 \pm 104.461$   $\chi^2/\text{NDF}: 73.4/57$

asym\_sam\_26\_48\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 719.606+/-0.202  $\chi^2/\text{NDF}$ : 746949.1/16

Left Out: 511.804+/-0.122  $\chi^2/\text{NDF}$ : 434494.7/11

Right Out: 726.397+/-0.200  $\chi^2/\text{NDF}$ : 880989.6/17

Left In: 516.226+/-0.122  $\chi^2/\text{NDF}$ : 206755.1/10

Left: 514.006+/-0.086  $\chi^2/\text{NDF}$ : 641904.5/22

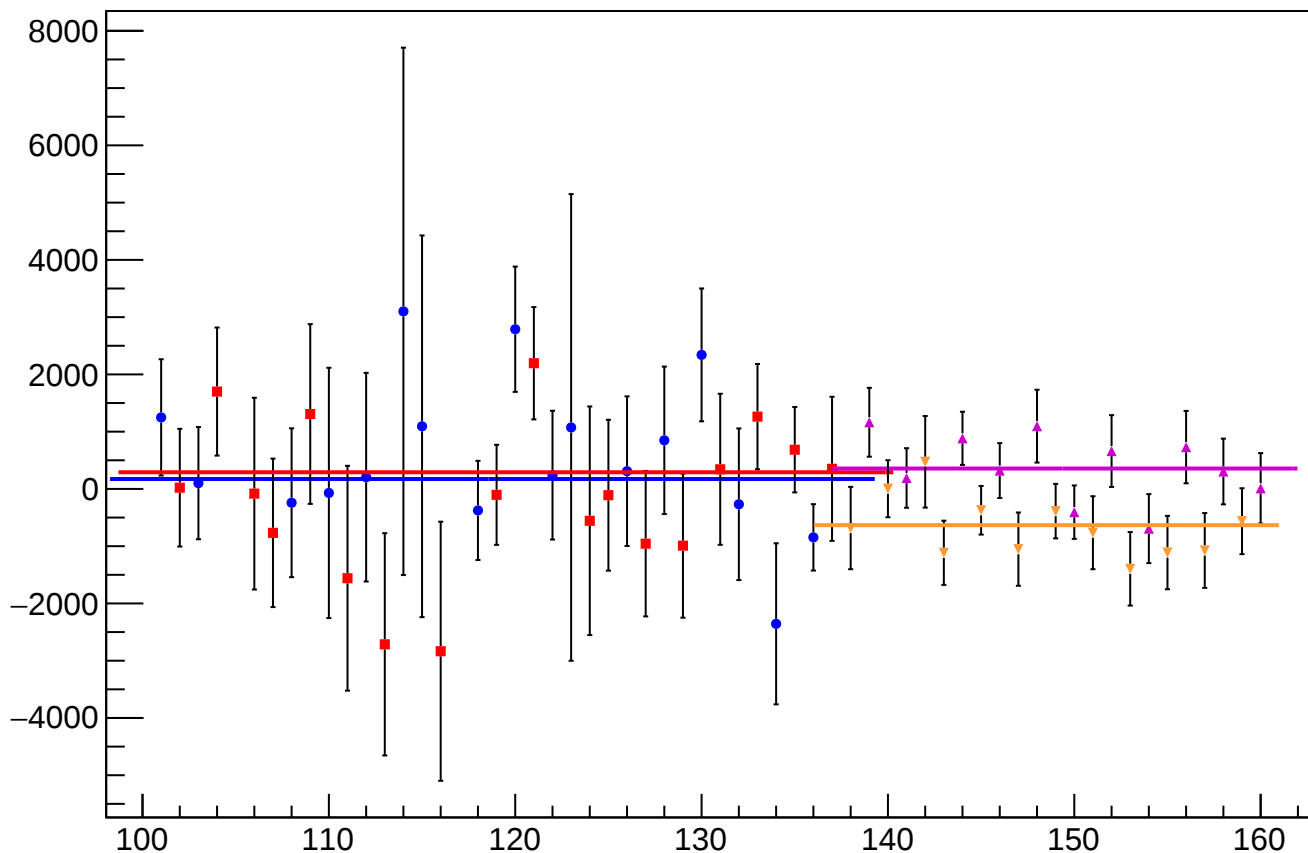
Right: 723.039+/-0.142  $\chi^2/\text{NDF}$ : 1628507.7/34

In: 570.714+/-0.105  $\chi^2/\text{NDF}$ : 1692653.6/27

Out: 569.880+/-0.104  $\chi^2/\text{NDF}$ : 2153566.6/29

All: 570.295+/-0.074  $\chi^2/\text{NDF}$ : 3846252.0/57

# asym\_sam\_26\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 173.182 $\pm$ 285.672  $\chi^2$ /NDF: 18.1/16

Left Out: -632.851 $\pm$ 167.143  $\chi^2$ /NDF:7.8/11

Right Out: 290.799 $\pm$ 283.545  $\chi^2$ /NDF: 15.6/17

Left In: 356.220 $\pm$ 166.639  $\chi^2$ /NDF:11.2/10

Left: -136.822 $\pm$ 118.009  $\chi^2$ /NDF: 36.6/22

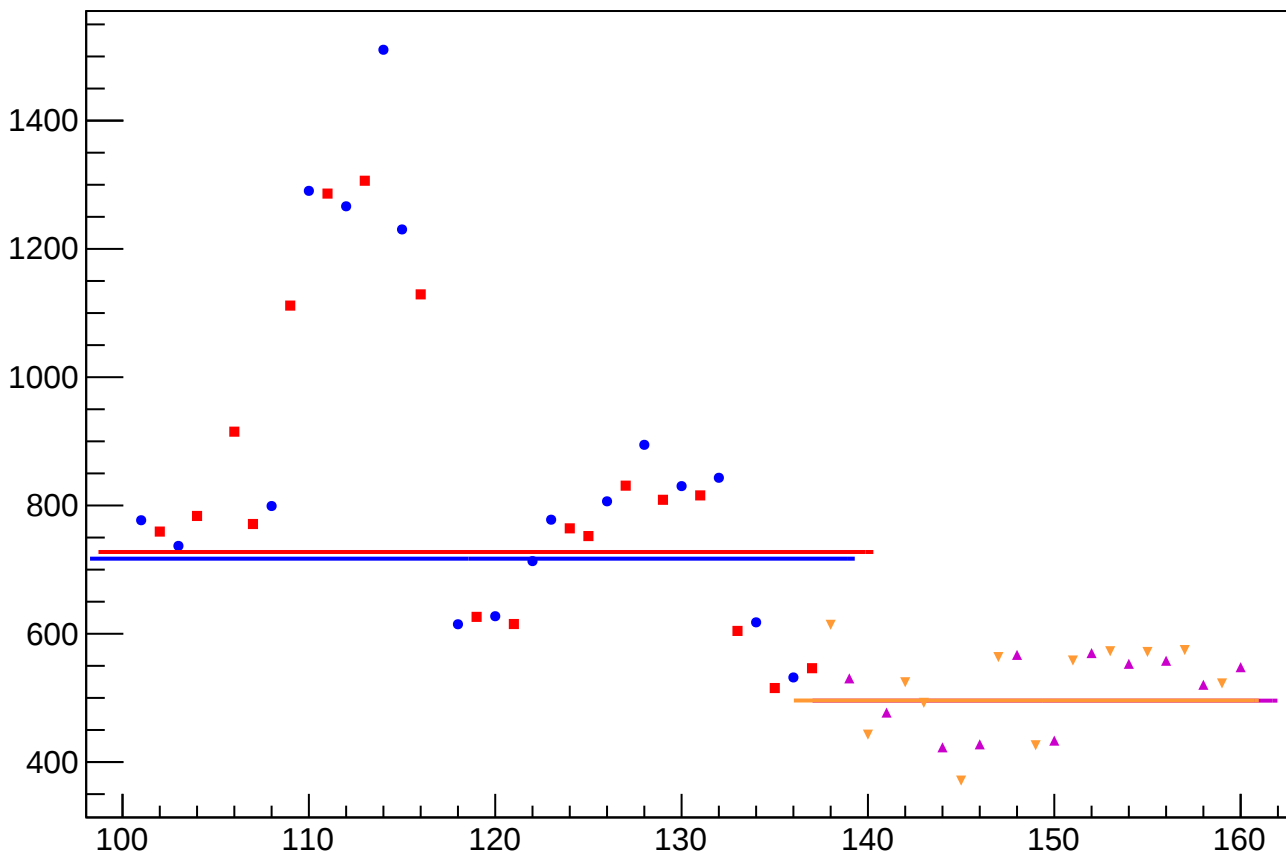
Right: 232.430 $\pm$ 201.245  $\chi^2$ /NDF: 33.8/34

In: 309.750 $\pm$ 143.940  $\chi^2$ /NDF:29.6/27

Out: -394.665 $\pm$ 143.988  $\chi^2$ /NDF:31.4/29

All: -42.339 $\pm$ 101.798  $\chi^2$ /NDF: 72.9/57

# asym\_sam\_26\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 717.083 $\pm$ 0.202  $\chi^2/\text{NDF}$ : 782449.4/16

Left Out: 495.954 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 426362.4/11

Right Out: 727.490 $\pm$ 0.200  $\chi^2/\text{NDF}$ : 881036.5/17

Left In: 495.733 $\pm$ 0.118  $\chi^2/\text{NDF}$ : 243268.7/10

Left: 495.843 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 669632.9/22

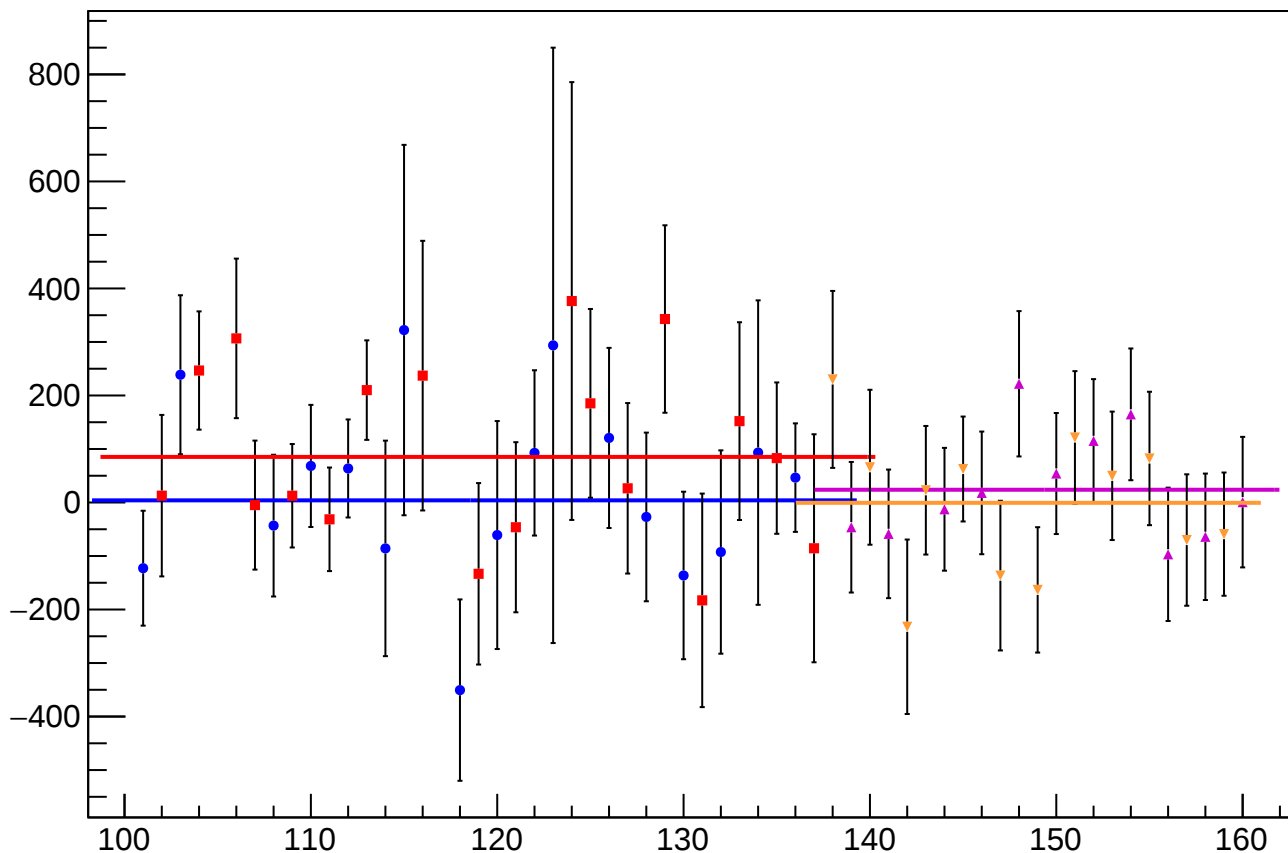
Right: 722.325 $\pm$ 0.142  $\chi^2/\text{NDF}$ : 1664822.9/34

In: 551.929 $\pm$ 0.102  $\chi^2/\text{NDF}$ : 1921624.7/27

Out: 555.661 $\pm$ 0.102  $\chi^2/\text{NDF}$ : 2297085.1/29

All: 553.794 $\pm$ 0.072  $\chi^2/\text{NDF}$ : 4219382.0/57

dit\_asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



Right In:  $4.011 \pm 35.950$   $\chi^2/\text{NDF}: 12.7/16$

Left Out:  $-0.574 \pm 36.282$   $\chi^2/\text{NDF}: 9.7/11$

Right Out:  $85.205 \pm 33.413$   $\chi^2/\text{NDF}: 17.4/17$

Left In:  $23.829 \pm 36.151$   $\chi^2/\text{NDF}: 6.6/10$

Left:  $11.671 \pm 25.609$   $\chi^2/\text{NDF}: 16.5/22$

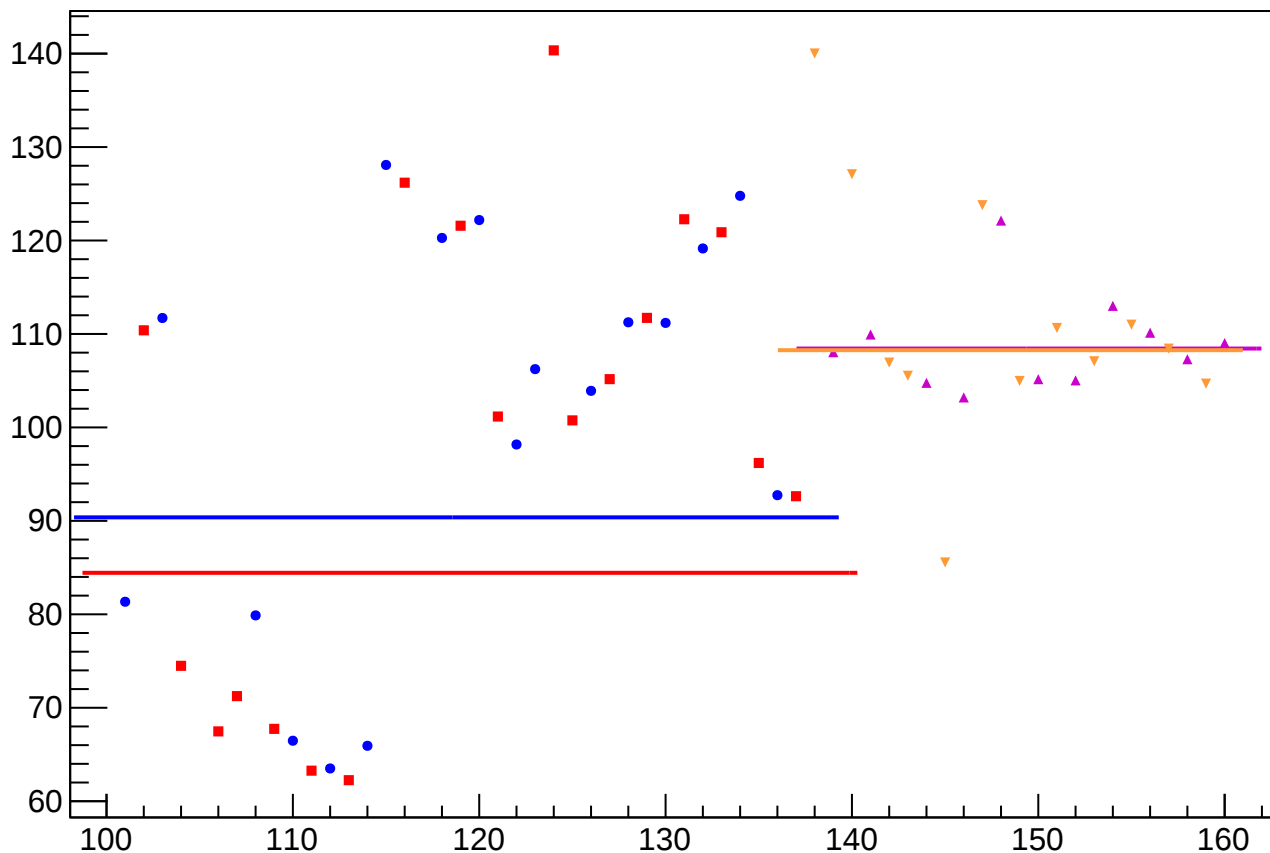
Right:  $47.574 \pm 24.474$   $\chi^2/\text{NDF}: 32.8/34$

In:  $13.865 \pm 25.491$   $\chi^2/\text{NDF}: 19.4/27$

Out:  $45.840 \pm 24.578$   $\chi^2/\text{NDF}: 30.1/29$

All:  $30.436 \pm 17.693$   $\chi^2/\text{NDF}: 50.3/57$

dit\_asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



Right In: 90.375 $\pm$ 0.025  $\chi^2$ /NDF: 654139.7/16

Left Out: 108.263 $\pm$ 0.026  $\chi^2$ /NDF: 246075.3/11

Right Out: 84.442 $\pm$ 0.024  $\chi^2$ /NDF: 870835.6/17

Left In: 108.439 $\pm$ 0.026  $\chi^2$ /NDF: 33649.3/10

Left: 108.351 $\pm$ 0.018  $\chi^2$ /NDF: 279748.3/22

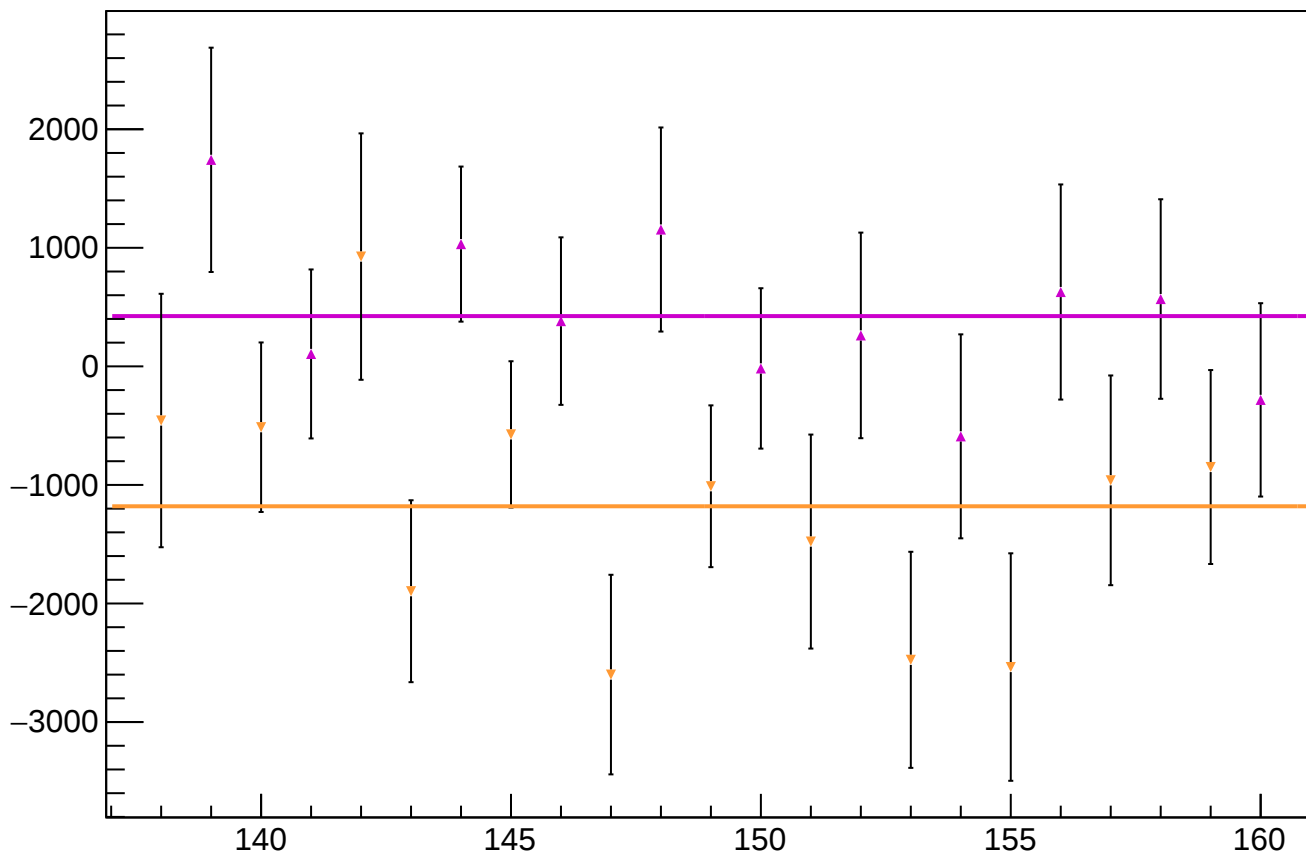
Right: 87.192 $\pm$ 0.017  $\chi^2$ /NDF: 1554203.3/34

In: 99.357 $\pm$ 0.018  $\chi^2$ /NDF: 938861.9/27

Out: 95.374 $\pm$ 0.017  $\chi^2$ /NDF: 1583399.9/29

All: 97.293 $\pm$ 0.013  $\chi^2$ /NDF: 2547569.8/57

asym\_sam\_1548\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1180.119+/-236.127  $\chi^2/\text{NDF}$ :14.5/11

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

Left In: 424.034+/-237.180  $\chi^2/\text{NDF}$ :6.4/10

Left: -381.611+/-167.338  $\chi^2/\text{NDF}$ : 43.9/22

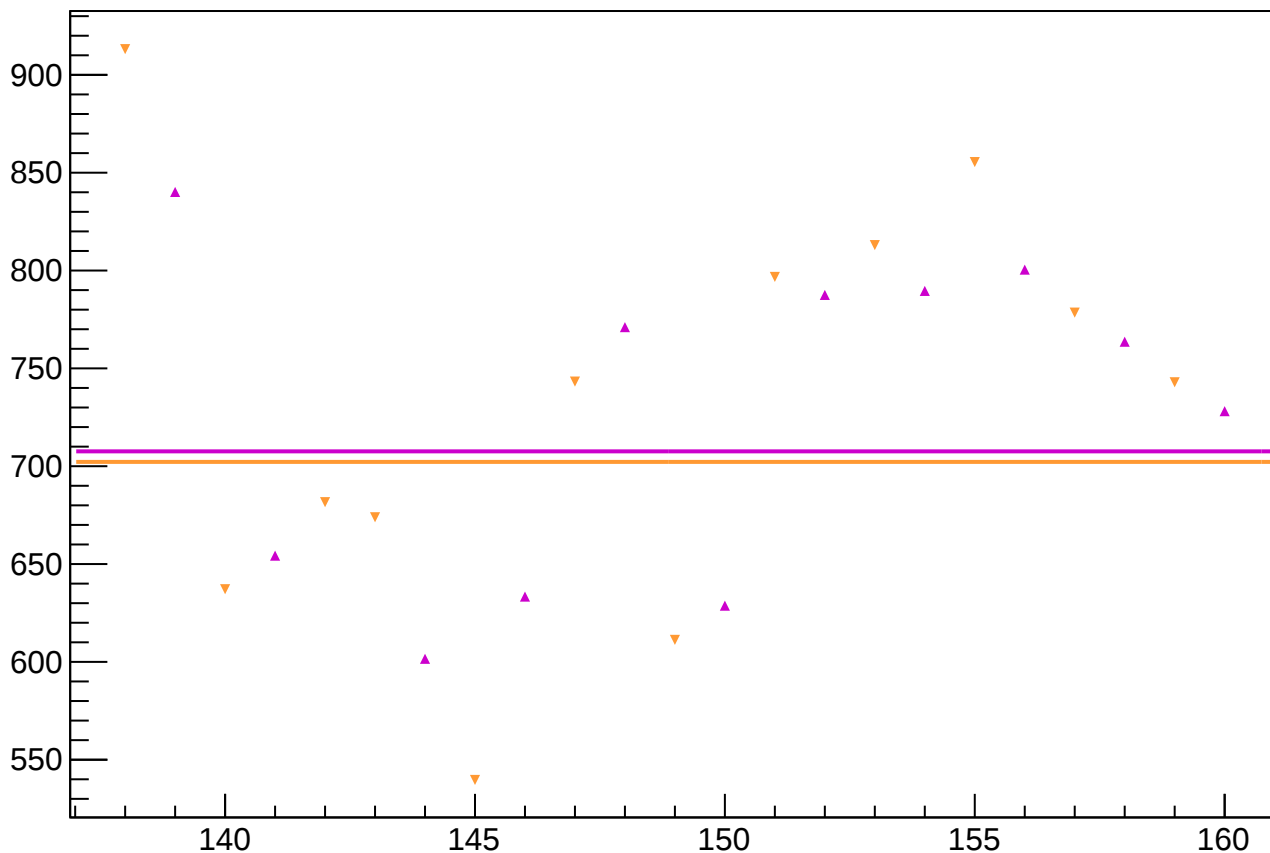
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 424.034+/-237.180  $\chi^2/\text{NDF}$ :6.4/10

Out: -1180.119+/-236.127  $\chi^2/\text{NDF}$ :14.5/11

All: -381.611+/-167.338  $\chi^2/\text{NDF}$ : 43.9/22

asym\_sam\_1548\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 702.206+/-0.167  $\chi^2/\text{NDF}$ :399438.1/11

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

Left In: 707.592+/-0.168  $\chi^2/\text{NDF}$ :229437.7/10

Left: 704.887+/-0.118  $\chi^2/\text{NDF}$ : 629393.6/22

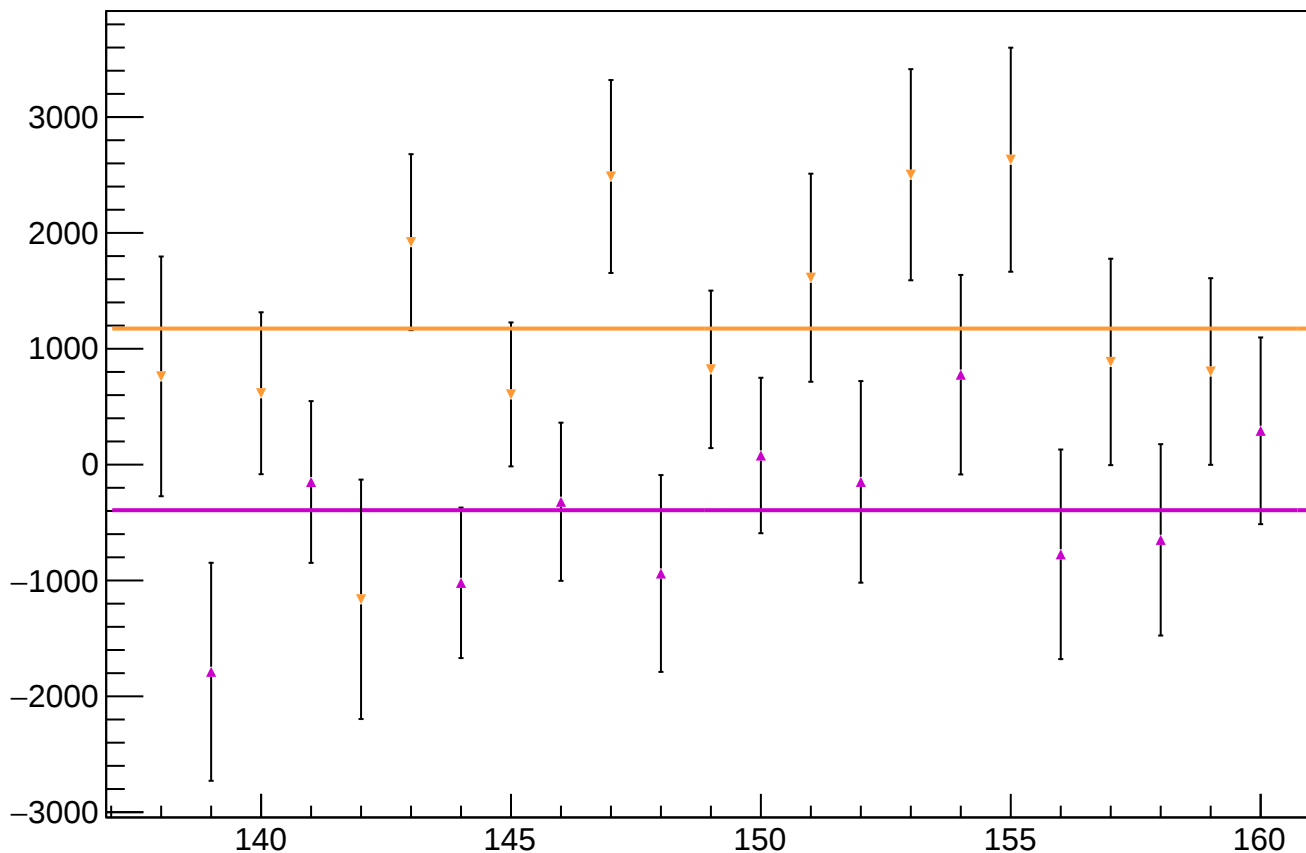
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 707.592+/-0.168  $\chi^2/\text{NDF}$ :229437.7/10

Out: 702.206+/-0.167  $\chi^2/\text{NDF}$ :399438.1/11

All: 704.887+/-0.118  $\chi^2/\text{NDF}$ : 629393.6/22

# asym\_sam\_1548\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1174.485+/-234.603  $\chi^2/\text{NDF}$ :15.4/11

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

Left In: -393.312+/-234.374  $\chi^2/\text{NDF}$ :7.1/10

Left: 389.823+/-165.808  $\chi^2/\text{NDF}$ : 44.9/22

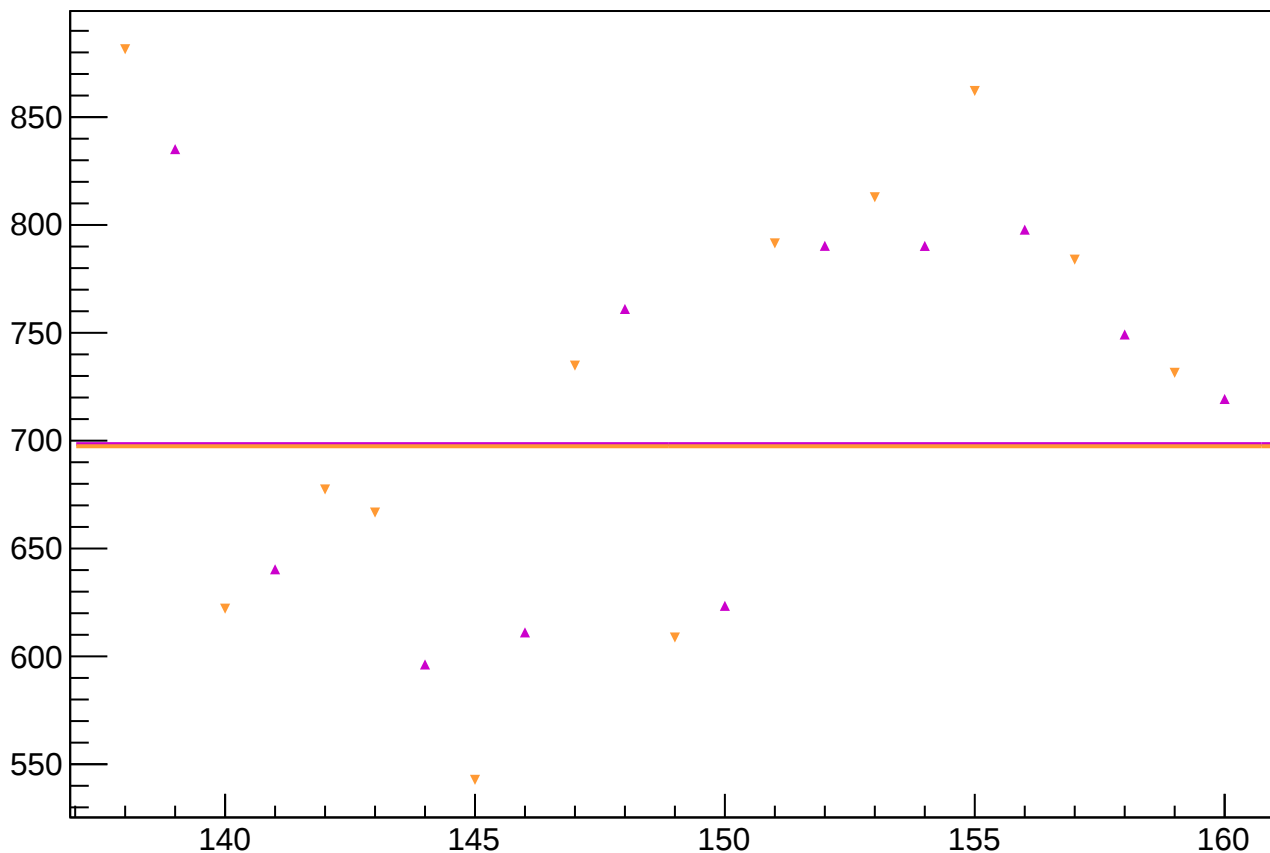
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -393.312+/-234.374  $\chi^2/\text{NDF}$ :7.1/10

Out: 1174.485+/-234.603  $\chi^2/\text{NDF}$ :15.4/11

All: 389.823+/-165.808  $\chi^2/\text{NDF}$ : 44.9/22

# asym\_sam\_1548\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 697.407+/-0.166  $\chi^2/\text{NDF}$ :387132.9/11

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

Left In: 698.393+/-0.166  $\chi^2/\text{NDF}$ :252334.2/10

Left: 697.900+/-0.117  $\chi^2/\text{NDF}$ : 639484.8/22

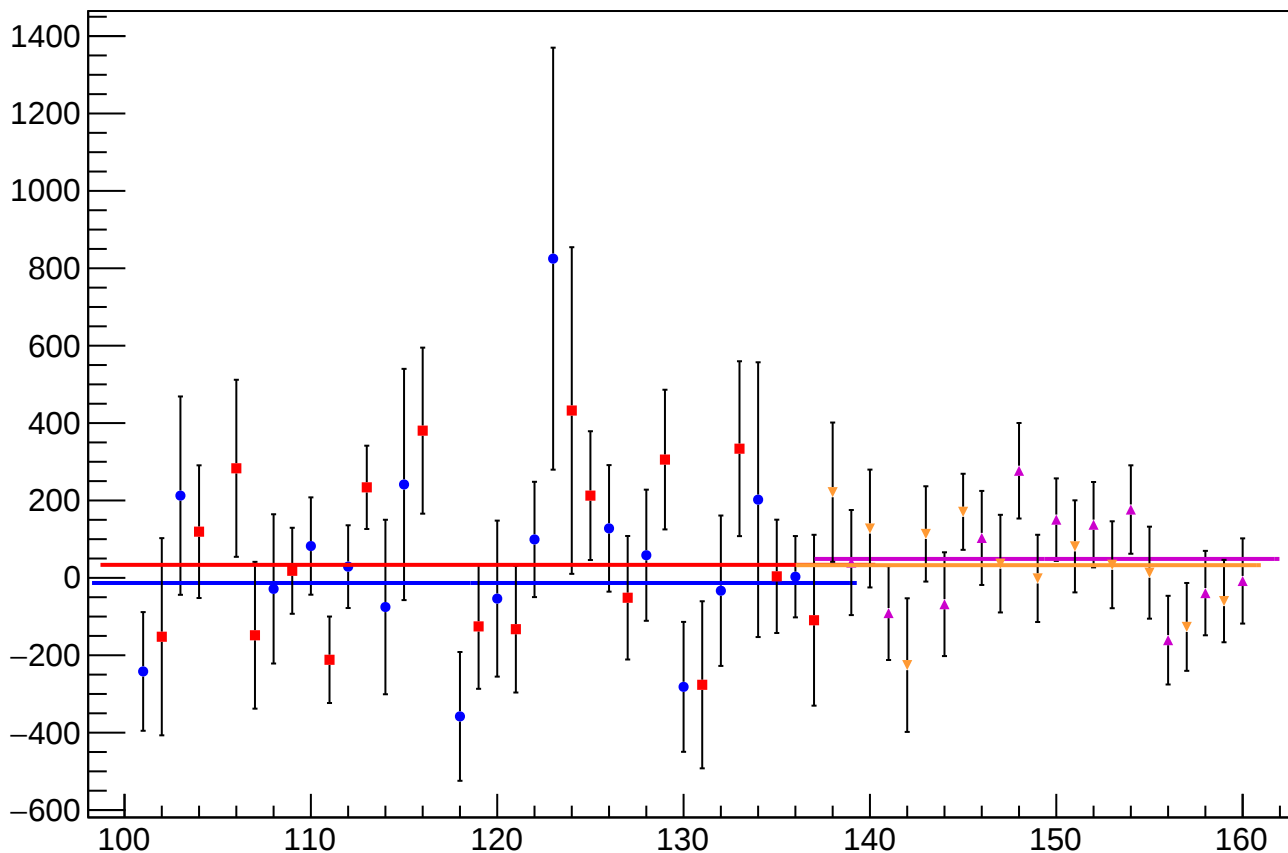
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 698.393+/-0.166  $\chi^2/\text{NDF}$ :252334.2/10

Out: 697.407+/-0.166  $\chi^2/\text{NDF}$ :387132.9/11

All: 697.900+/-0.117  $\chi^2/\text{NDF}$ : 639484.8/22

dit\_asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



Right In:  $-13.215 \pm 40.554$   $\chi^2/\text{NDF}$ : 15.7/16

Left Out:  $32.802 \pm 35.241$   $\chi^2/\text{NDF}$ : 9.1/11

Right Out:  $33.637 \pm 38.891$   $\chi^2/\text{NDF}$ : 24.7/17

Left In:  $48.940 \pm 35.342$   $\chi^2/\text{NDF}$ : 12.8/10

Left:  $40.848 \pm 24.955$   $\chi^2/\text{NDF}$ : 22.0/22

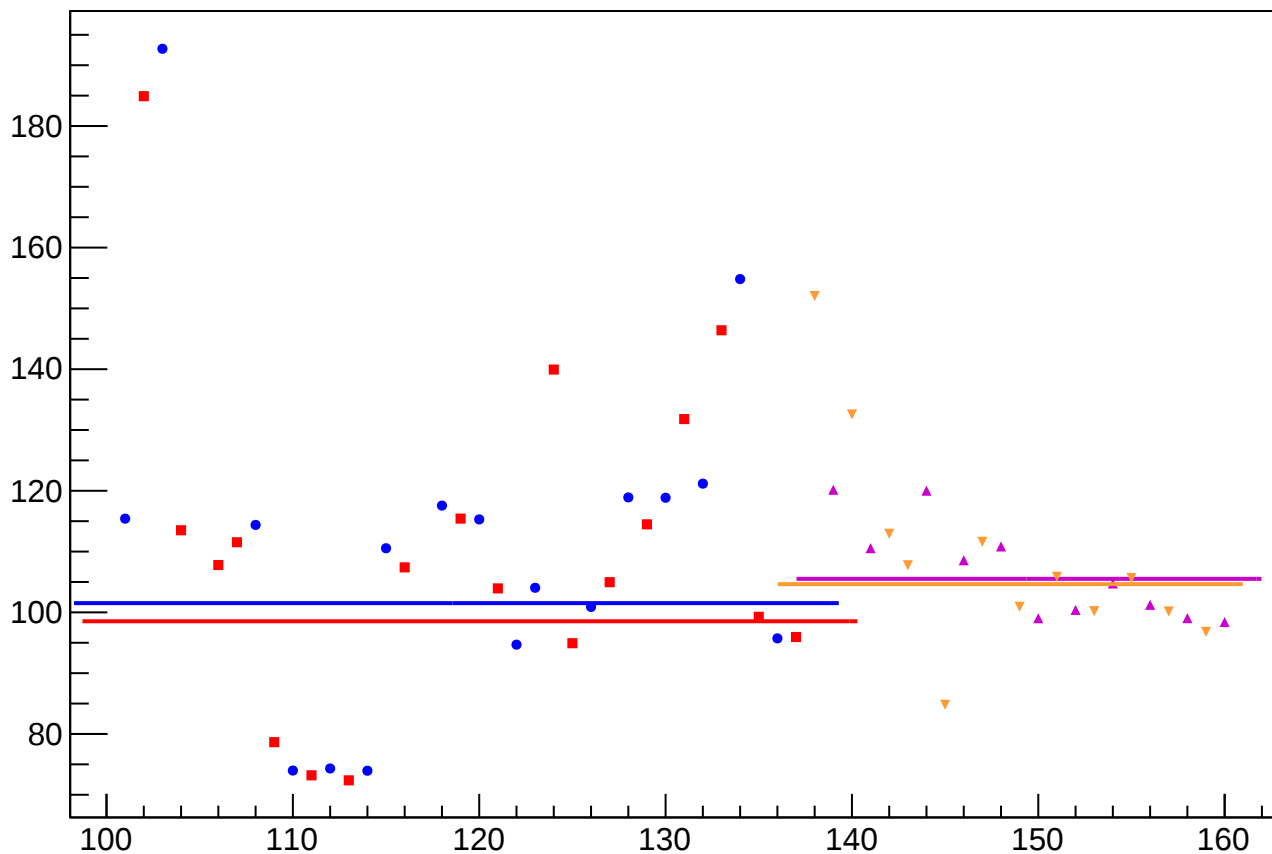
Right:  $11.191 \pm 28.070$   $\chi^2/\text{NDF}$ : 41.1/34

In:  $22.110 \pm 26.644$   $\chi^2/\text{NDF}$ : 29.8/27

Out:  $33.178 \pm 26.115$   $\chi^2/\text{NDF}$ : 33.8/29

All:  $27.755 \pm 18.650$   $\chi^2/\text{NDF}$ : 63.7/57

dit\_asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



Right In: 101.519 $\pm$ 0.029  $\chi^2/\text{NDF}$ : 681713.7/16

Left Out: 104.646 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 319081.2/11

Right Out: 98.537 $\pm$ 0.028  $\chi^2/\text{NDF}$ : 746979.4/17

Left In: 105.514 $\pm$ 0.025  $\chi^2/\text{NDF}$ : 84996.4/10

Left: 105.079 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 404681.9/22

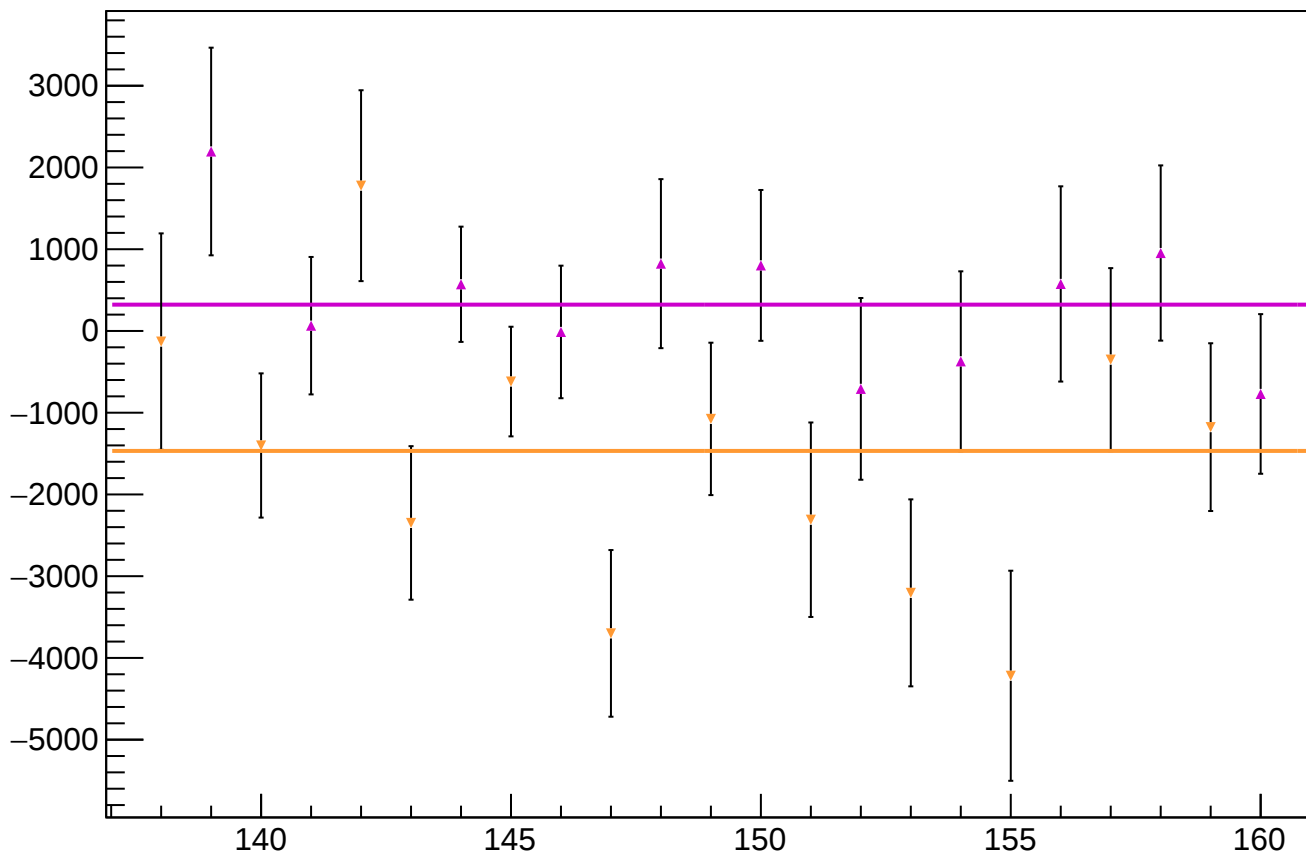
Right: 99.965 $\pm$ 0.020  $\chi^2/\text{NDF}$ : 1434328.3/34

In: 103.789 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 777738.2/27

Out: 101.891 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1093161.5/29

All: 102.821 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 1876076.3/57

asym\_sam\_3748\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -1467.550+/-290.096  $\chi^2/\text{NDF}$ :24.7/11

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

Left In: 322.010+/-289.501  $\chi^2/\text{NDF}$ :6.0/10

Left: -570.934+/-204.918  $\chi^2/\text{NDF}$ : 49.7/22

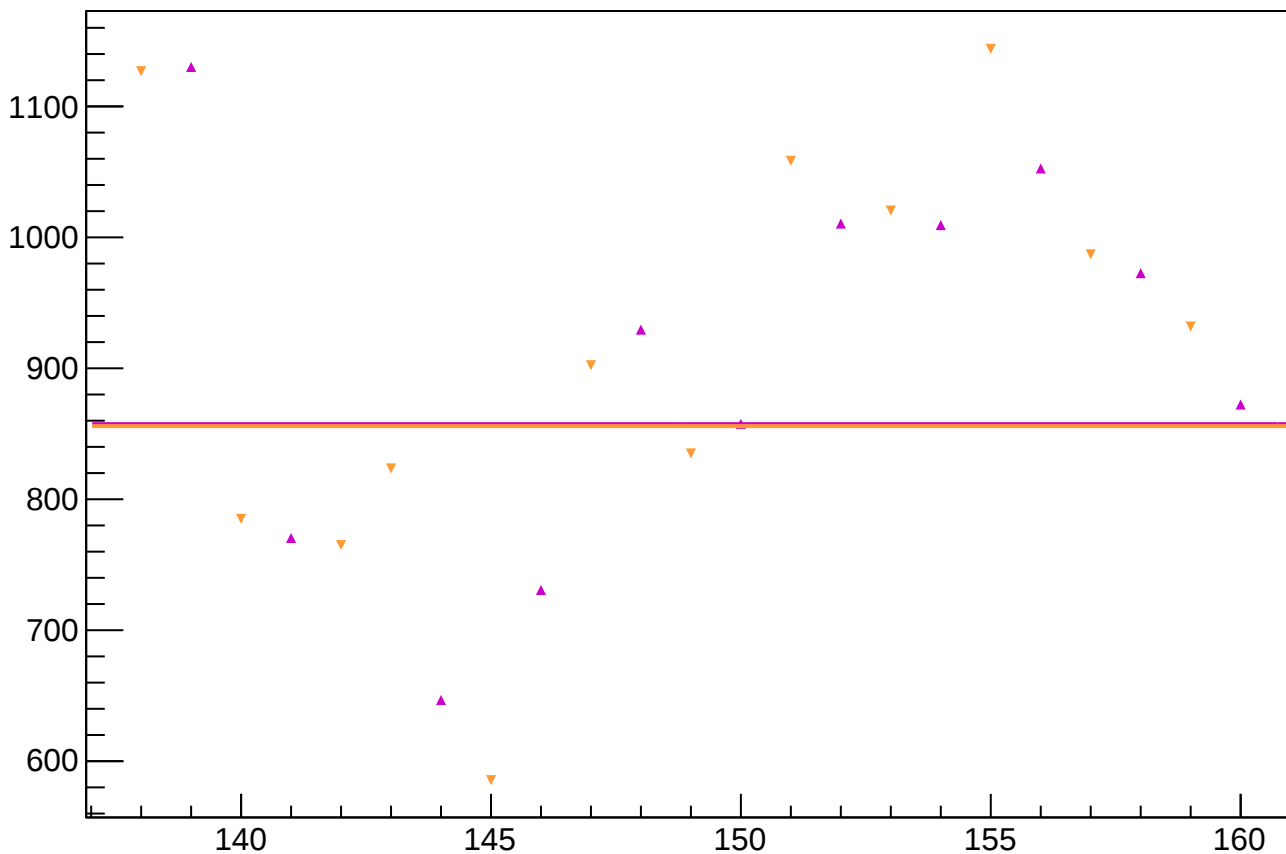
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 322.010+/-289.501  $\chi^2/\text{NDF}$ :6.0/10

Out: -1467.550+/-290.096  $\chi^2/\text{NDF}$ :24.7/11

All: -570.934+/-204.918  $\chi^2/\text{NDF}$ : 49.7/22

asym\_sam\_3748\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 855.850+/-0.205  $\chi^2/\text{NDF}$ : 679837.1/11

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

Left In: 857.344+/-0.205  $\chi^2/\text{NDF}$ : 503818.4/10

Left: 856.599+/-0.145  $\chi^2/\text{NDF}$ : 1183682.1/22

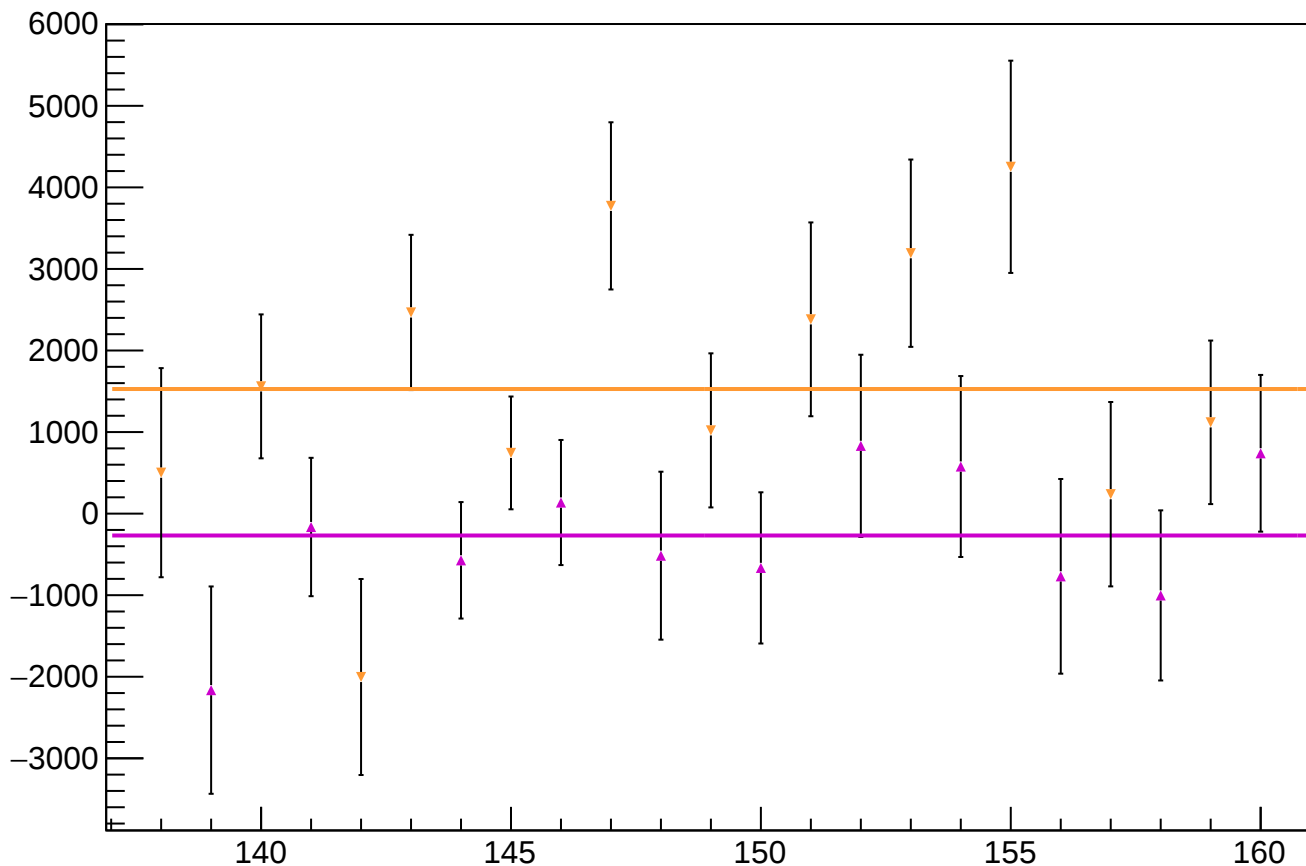
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 857.344+/-0.205  $\chi^2/\text{NDF}$ : 503818.4/10

Out: 855.850+/-0.205  $\chi^2/\text{NDF}$ : 679837.1/11

All: 856.599+/-0.145  $\chi^2/\text{NDF}$ : 1183682.1/22

asym\_sam\_3748\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 1527.886+/-292.498  $\chi^2/\text{NDF}$ :25.1/11

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

Left In: -268.210+/-287.518  $\chi^2/\text{NDF}$ :6.3/10

Left: 614.419+/-205.044  $\chi^2/\text{NDF}$ : 50.5/22

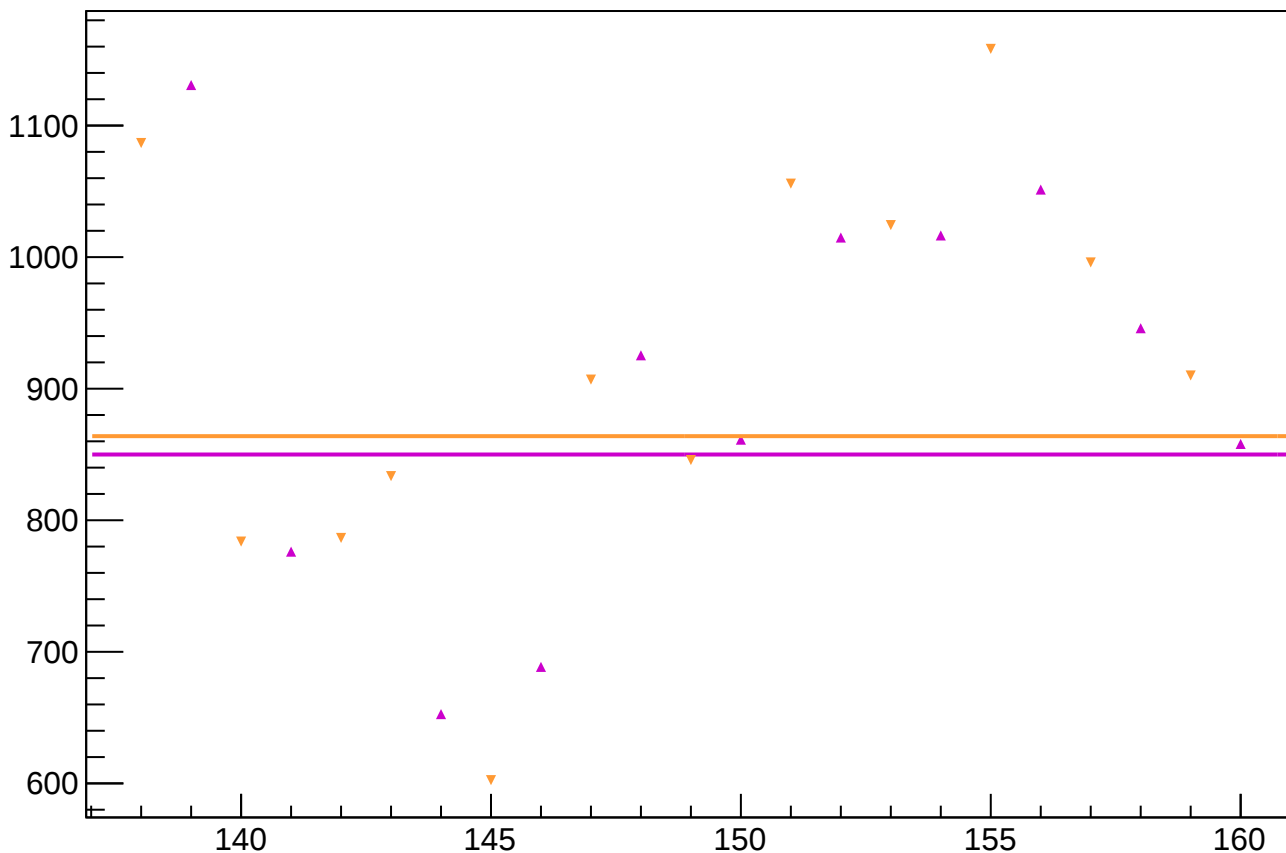
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -268.210+/-287.518  $\chi^2/\text{NDF}$ :6.3/10

Out: 1527.886+/-292.498  $\chi^2/\text{NDF}$ :25.1/11

All: 614.419+/-205.044  $\chi^2/\text{NDF}$ : 50.5/22

asym\_sam\_3748\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 863.917+/-0.207  $\chi^2/\text{NDF}$ : 602498.0/11

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

Left In: 849.972+/-0.203  $\chi^2/\text{NDF}$ : 527801.0/10

Left: 856.825+/-0.145  $\chi^2/\text{NDF}$ : 1132610.8/22

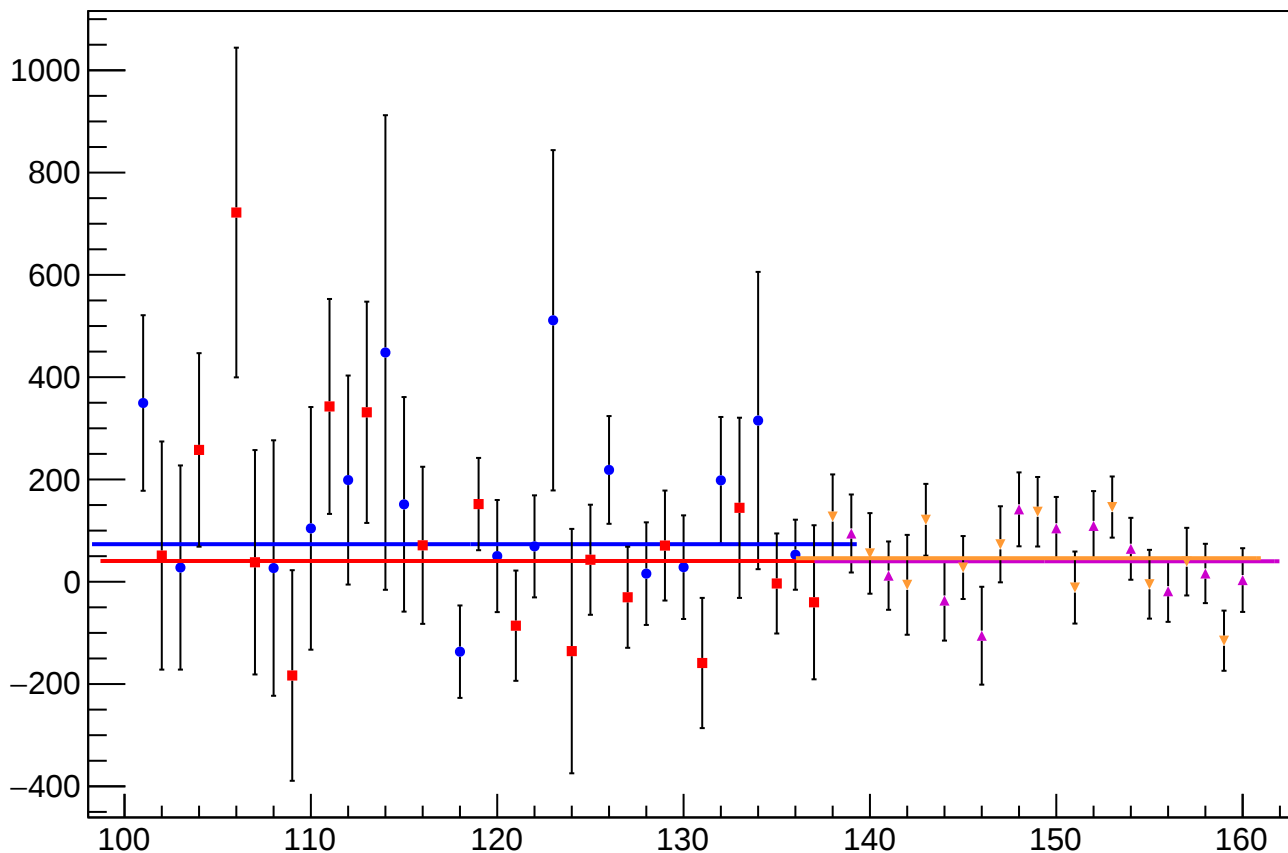
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 849.972+/-0.203  $\chi^2/\text{NDF}$ : 527801.0/10

Out: 863.917+/-0.207  $\chi^2/\text{NDF}$ : 602498.0/11

All: 856.825+/-0.145  $\chi^2/\text{NDF}$ : 1132610.8/22

# dit\_asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



Right In: 73.448 $\pm$ 31.060  $\chi^2$ /NDF: 15.3/16

Left Out: 46.056 $\pm$ 20.009  $\chi^2$ /NDF:16.0/11

Right Out: 40.594 $\pm$ 32.745  $\chi^2$ /NDF: 18.2/17

Left In: 40.035 $\pm$ 20.211  $\chi^2$ /NDF:9.7/10

Left: 43.076 $\pm$ 14.219  $\chi^2$ /NDF: 25.7/22

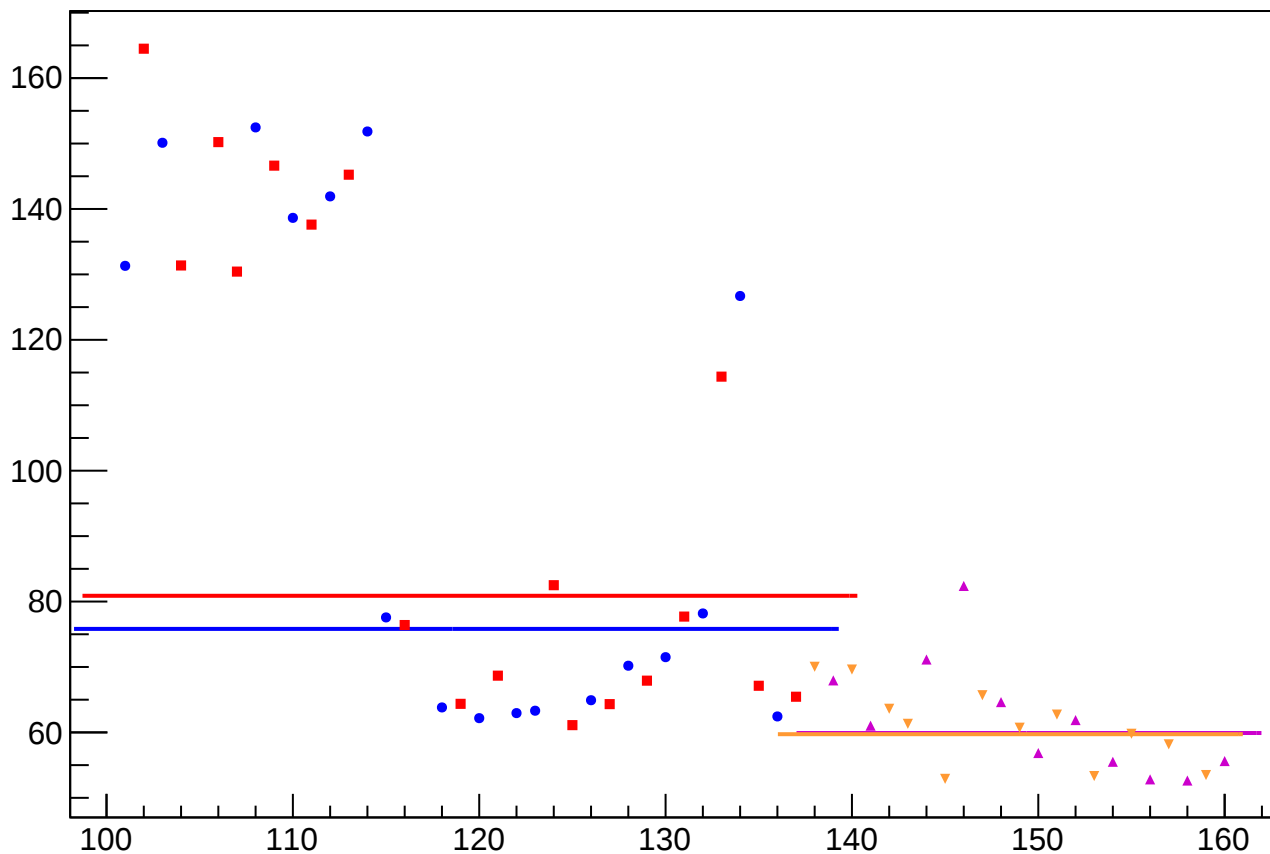
Right: 57.887 $\pm$ 22.535  $\chi^2$ /NDF: 34.0/34

In: 49.973 $\pm$ 16.940  $\chi^2$ /NDF:25.8/27

Out: 44.571 $\pm$ 17.074  $\chi^2$ /NDF:34.2/29

All: 47.294 $\pm$ 12.025  $\chi^2$ /NDF: 60.1/57

dit\_asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



Right In: 75.820 $\pm$ 0.022  $\chi^2$ /NDF: 1349961.8/16

Left Out: 59.727 $\pm$ 0.014  $\chi^2$ /NDF: 154863.0/11

Right Out: 80.881 $\pm$ 0.023  $\chi^2$ /NDF: 1526044.5/17

Left In: 59.909 $\pm$ 0.014  $\chi^2$ /NDF: 268862.4/10

Left: 59.817 $\pm$ 0.010  $\chi^2$ /NDF: 423806.9/22

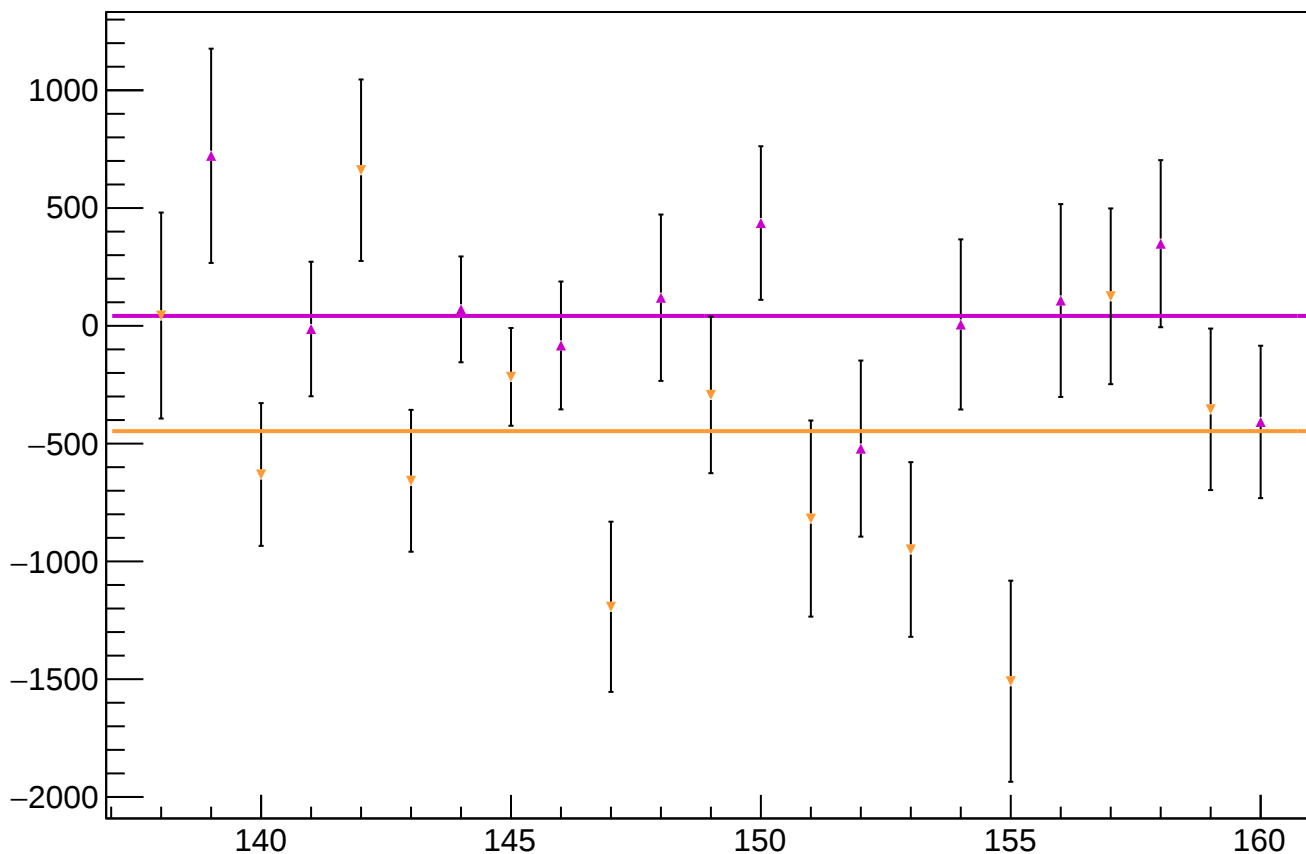
Right: 78.217 $\pm$ 0.016  $\chi^2$ /NDF: 2901160.0/34

In: 64.641 $\pm$ 0.012  $\chi^2$ /NDF: 1987540.6/27

Out: 65.478 $\pm$ 0.012  $\chi^2$ /NDF: 2288688.5/29

All: 65.057 $\pm$ 0.009  $\chi^2$ /NDF: 4278651.2/57

asym\_sam\_1526\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -446.942+/-96.198  $\chi^2/\text{NDF}$ :27.3/11

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

Left In: 42.109+/-97.021  $\chi^2/\text{NDF}$ :9.0/10

Left: -204.500+/-68.311  $\chi^2/\text{NDF}$ : 49.2/22

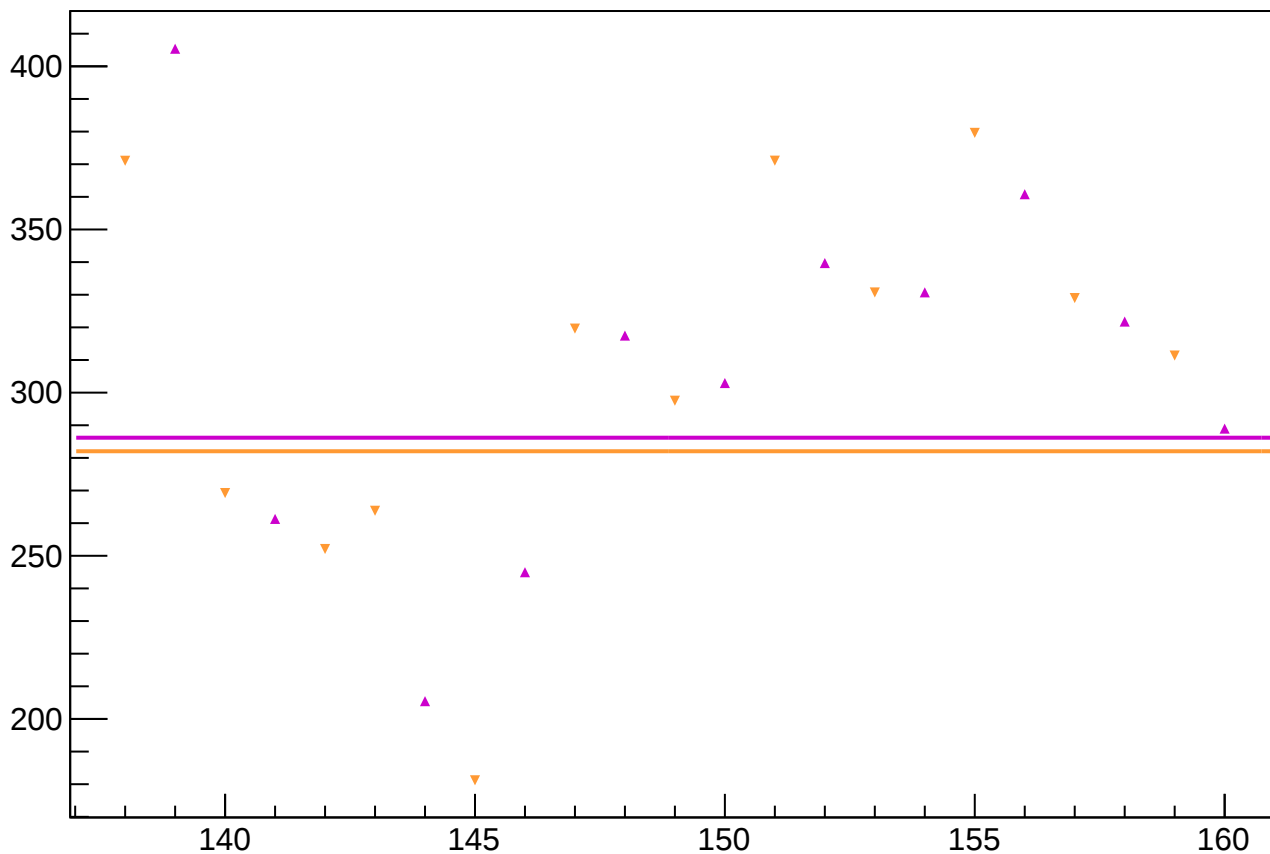
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 42.109+/-97.021  $\chi^2/\text{NDF}$ :9.0/10

Out: -446.942+/-96.198  $\chi^2/\text{NDF}$ :27.3/11

All: -204.500+/-68.311  $\chi^2/\text{NDF}$ : 49.2/22

asym\_sam\_1526\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 282.037+/-0.068  $\chi^2/\text{NDF}$ : 880910.3/11

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

Left In: 286.187+/-0.069  $\chi^2/\text{NDF}$ : 636456.7/10

Left: 284.094+/-0.048  $\chi^2/\text{NDF}$ : 1519211.5/22

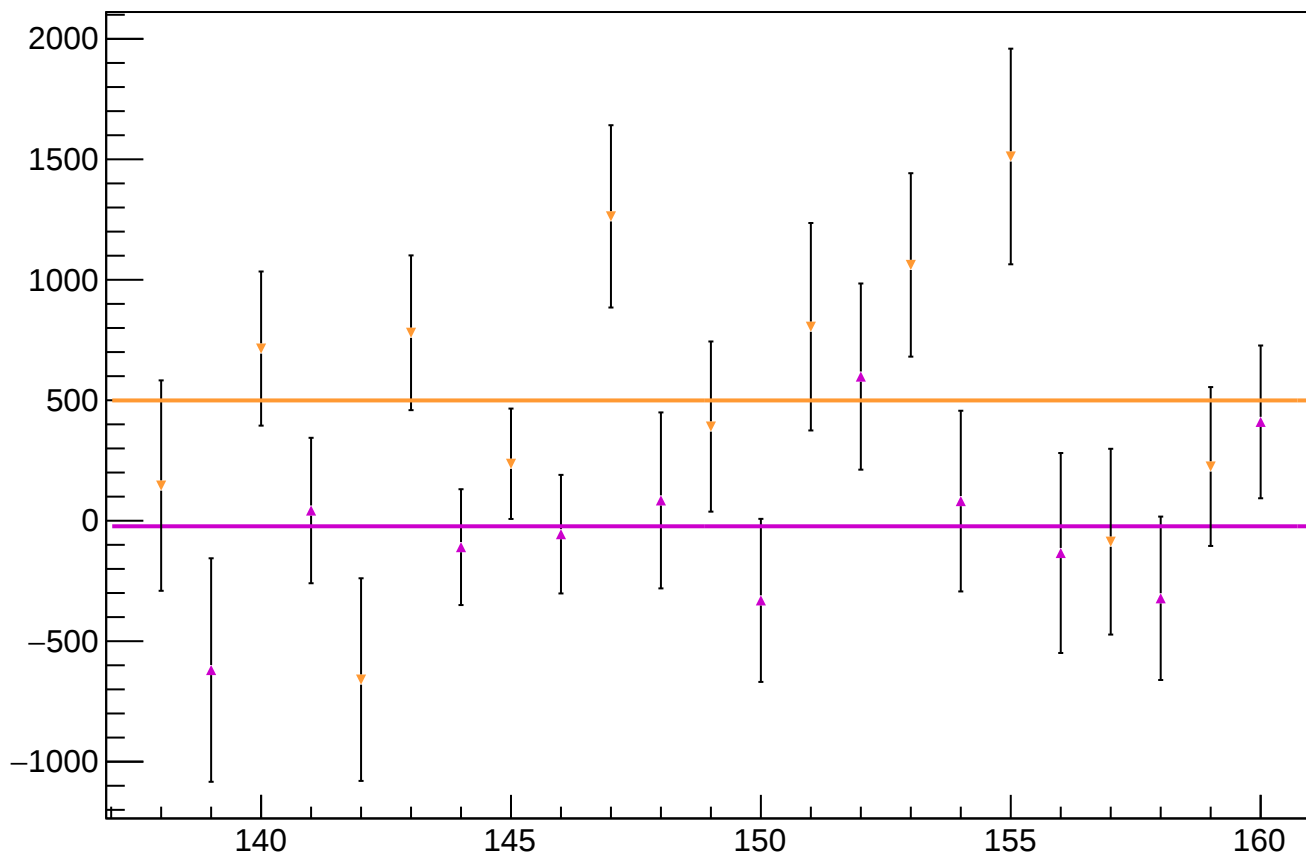
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 286.187+/-0.069  $\chi^2/\text{NDF}$ : 636456.7/10

Out: 282.037+/-0.068  $\chi^2/\text{NDF}$ : 880910.3/11

All: 284.094+/-0.048  $\chi^2/\text{NDF}$ : 1519211.5/22

asym\_sam\_1526\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 499.295 $\pm$ 101.200  $\chi^2$ /NDF:25.8/11

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

Left In: -23.055 $\pm$ 98.085  $\chi^2$ /NDF:8.1/10

Left: 229.956 $\pm$ 70.432  $\chi^2$ /NDF: 47.6/22

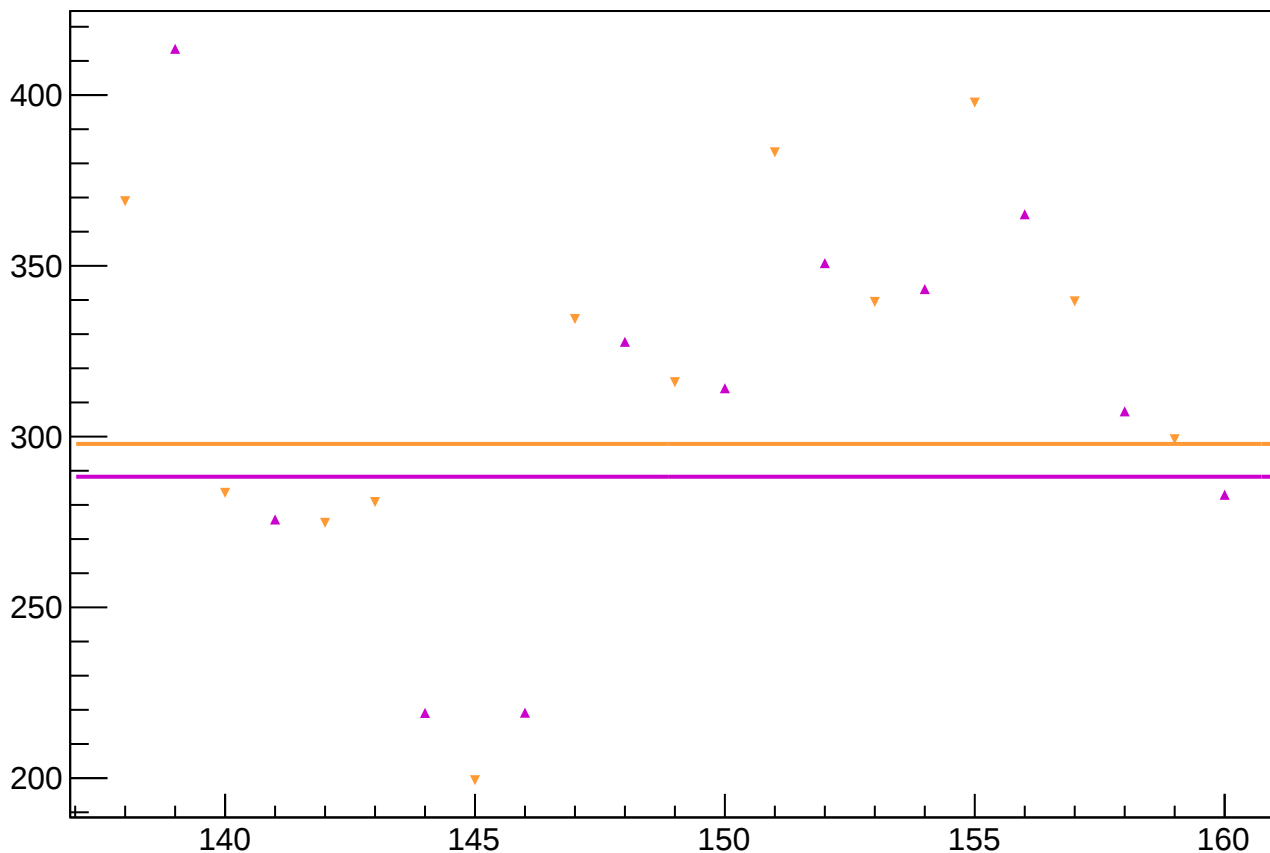
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -23.055 $\pm$ 98.085  $\chi^2$ /NDF:8.1/10

Out: 499.295 $\pm$ 101.200  $\chi^2$ /NDF:25.8/11

All: 229.956 $\pm$ 70.432  $\chi^2$ /NDF: 47.6/22

# asym\_sam\_1526\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 297.864+/-0.072  $\chi^2/\text{NDF}$ : 687788.6/11

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

Left In: 288.254+/-0.069  $\chi^2/\text{NDF}$ : 678522.2/10

Left: 292.909+/-0.050  $\chi^2/\text{NDF}$ : 1375610.2/22

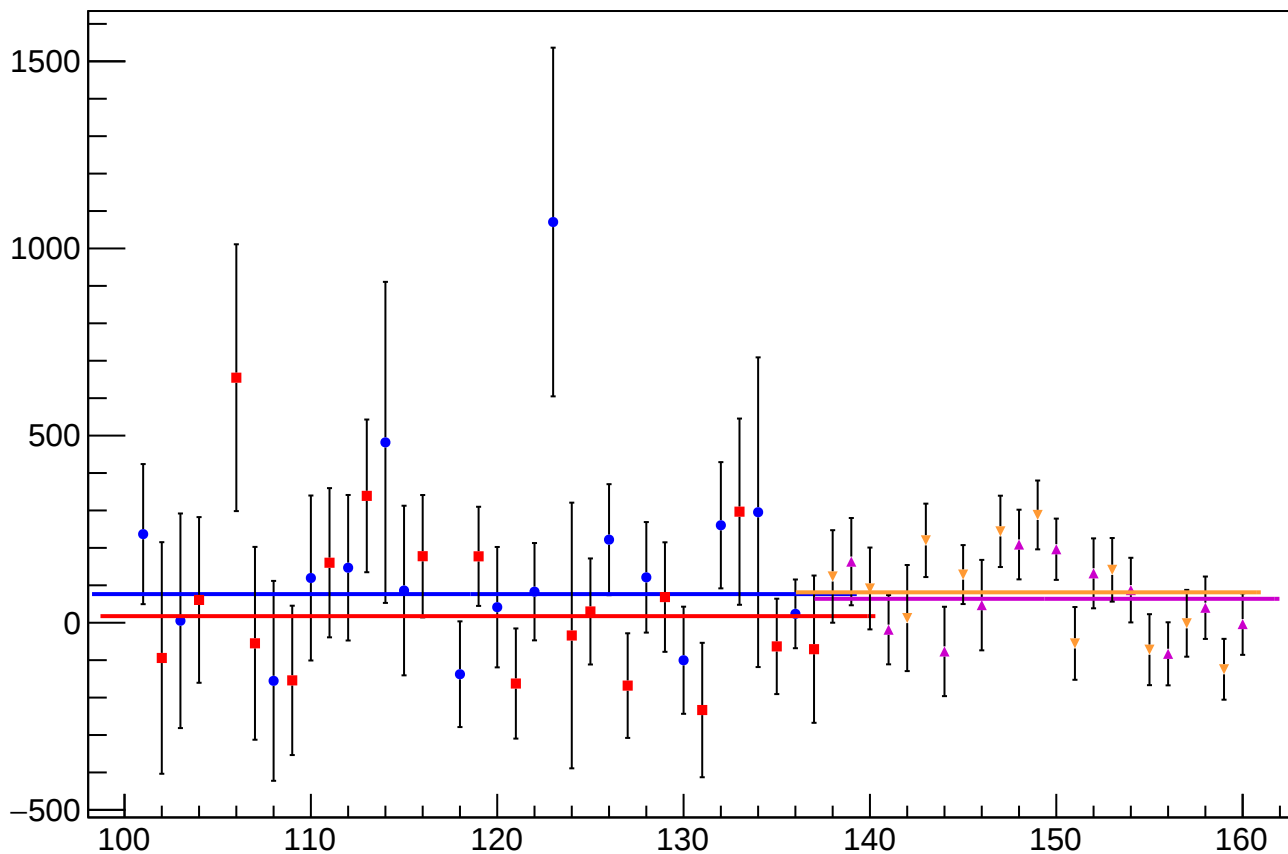
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 288.254+/-0.069  $\chi^2/\text{NDF}$ : 678522.2/10

Out: 297.864+/-0.072  $\chi^2/\text{NDF}$ : 687788.6/11

All: 292.909+/-0.050  $\chi^2/\text{NDF}$ : 1375610.2/22

dit\_asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



Right In: 76.503 $\pm$ 41.558  $\chi^2$ /NDF: 13.9/16

Left Out: 81.258 $\pm$ 27.474  $\chi^2$ /NDF:23.0/11

Right Out: 17.605 $\pm$ 42.297  $\chi^2$ /NDF: 16.8/17

Left In: 63.896 $\pm$ 28.004  $\chi^2$ /NDF:12.4/10

Left: 72.743 $\pm$ 19.612  $\chi^2$ /NDF: 35.6/22

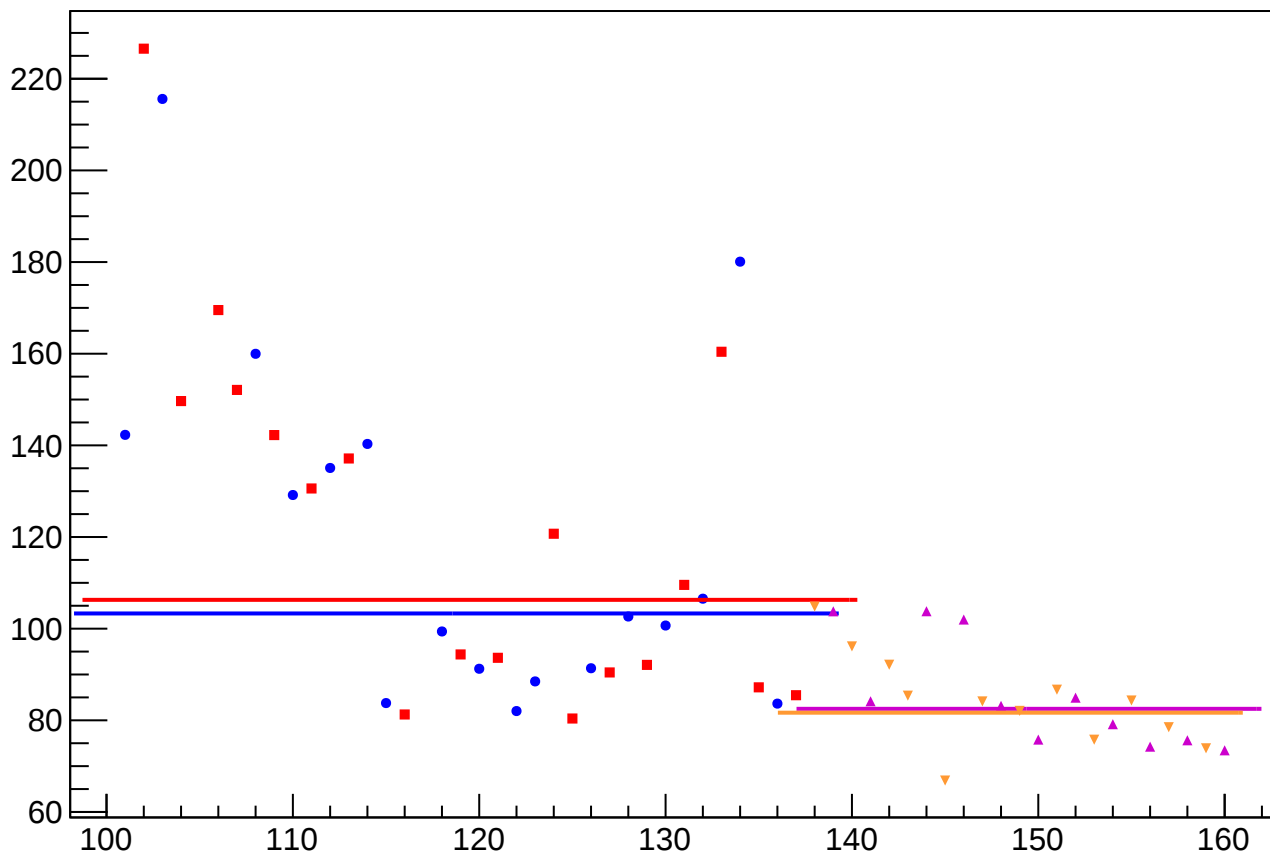
Right: 47.573 $\pm$ 29.644  $\chi^2$ /NDF: 31.7/34

In: 67.833 $\pm$ 23.223  $\chi^2$ /NDF:26.3/27

Out: 62.371 $\pm$ 23.040  $\chi^2$ /NDF:41.5/29

All: 65.080 $\pm$ 16.356  $\chi^2$ /NDF: 67.8/57

dit\_asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



Right In: 103.318 $\pm$ 0.029  $\chi^2$ /NDF: 837801.7/16

Left Out: 81.665 $\pm$ 0.019  $\chi^2$ /NDF:228370.5/11

Right Out: 106.289 $\pm$ 0.030  $\chi^2$ /NDF: 1000708.3/17

Left In: 82.507 $\pm$ 0.020  $\chi^2$ /NDF:257836.5/10

Left: 82.078 $\pm$ 0.014  $\chi^2$ /NDF: 487127.5/22

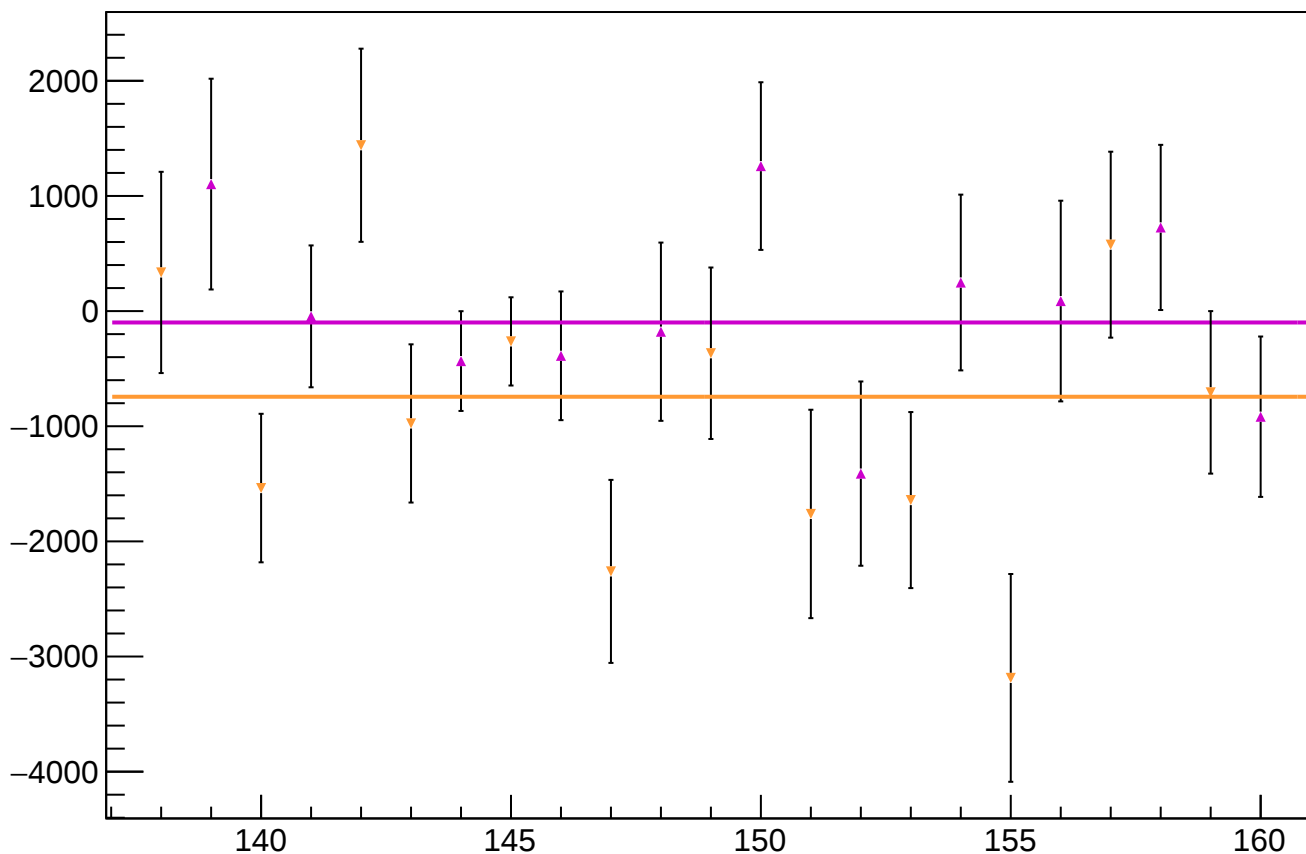
Right: 104.777 $\pm$ 0.021  $\chi^2$ /NDF: 1843531.0/34

In: 89.006 $\pm$ 0.016  $\chi^2$ /NDF:1440554.9/27

Out: 88.972 $\pm$ 0.016  $\chi^2$ /NDF:1705765.7/29

All: 88.989 $\pm$ 0.012  $\chi^2$ /NDF: 3146322.8/57

asym\_sam\_3726\_avg\_correction\_mean vs Slug, Sign Corrected



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

Left Out:  $-743.876 \pm 199.380$   $\chi^2/\text{NDF}: 28.1/11$

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

Left In:  $-98.876 \pm 201.965$   $\chi^2/\text{NDF}: 11.7/10$

Left:  $-425.530 \pm 141.888$   $\chi^2/\text{NDF}: 45.0/22$

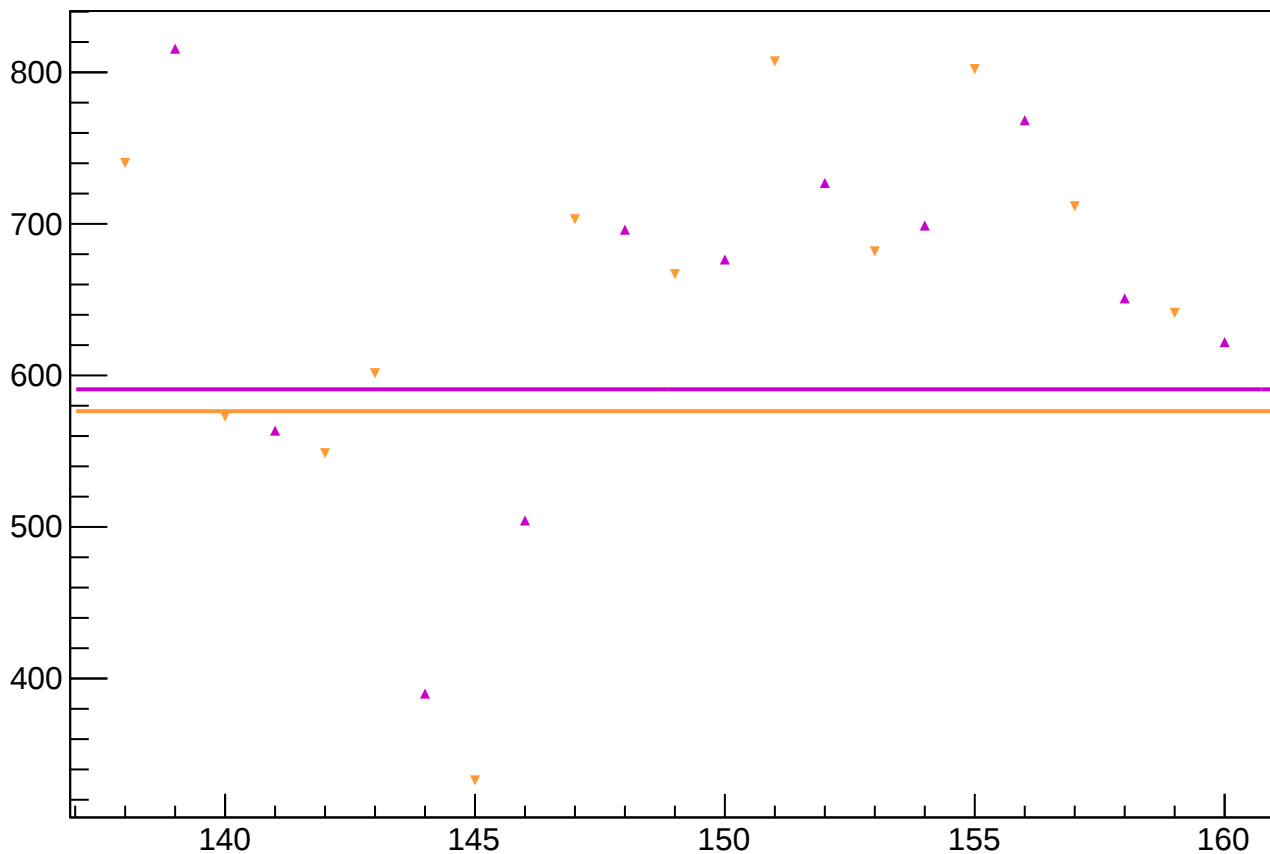
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-98.876 \pm 201.965$   $\chi^2/\text{NDF}: 11.7/10$

Out:  $-743.876 \pm 199.380$   $\chi^2/\text{NDF}: 28.1/11$

All:  $-425.530 \pm 141.888$   $\chi^2/\text{NDF}: 45.0/22$

asym\_sam\_3726\_avg\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 576.406+/-0.141  $\chi^2/\text{NDF}$ :1330581.9/11

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

Left In: 590.832+/-0.143  $\chi^2/\text{NDF}$ :866037.3/10

Left: 583.526+/-0.100  $\chi^2/\text{NDF}$ : 2201786.8/22

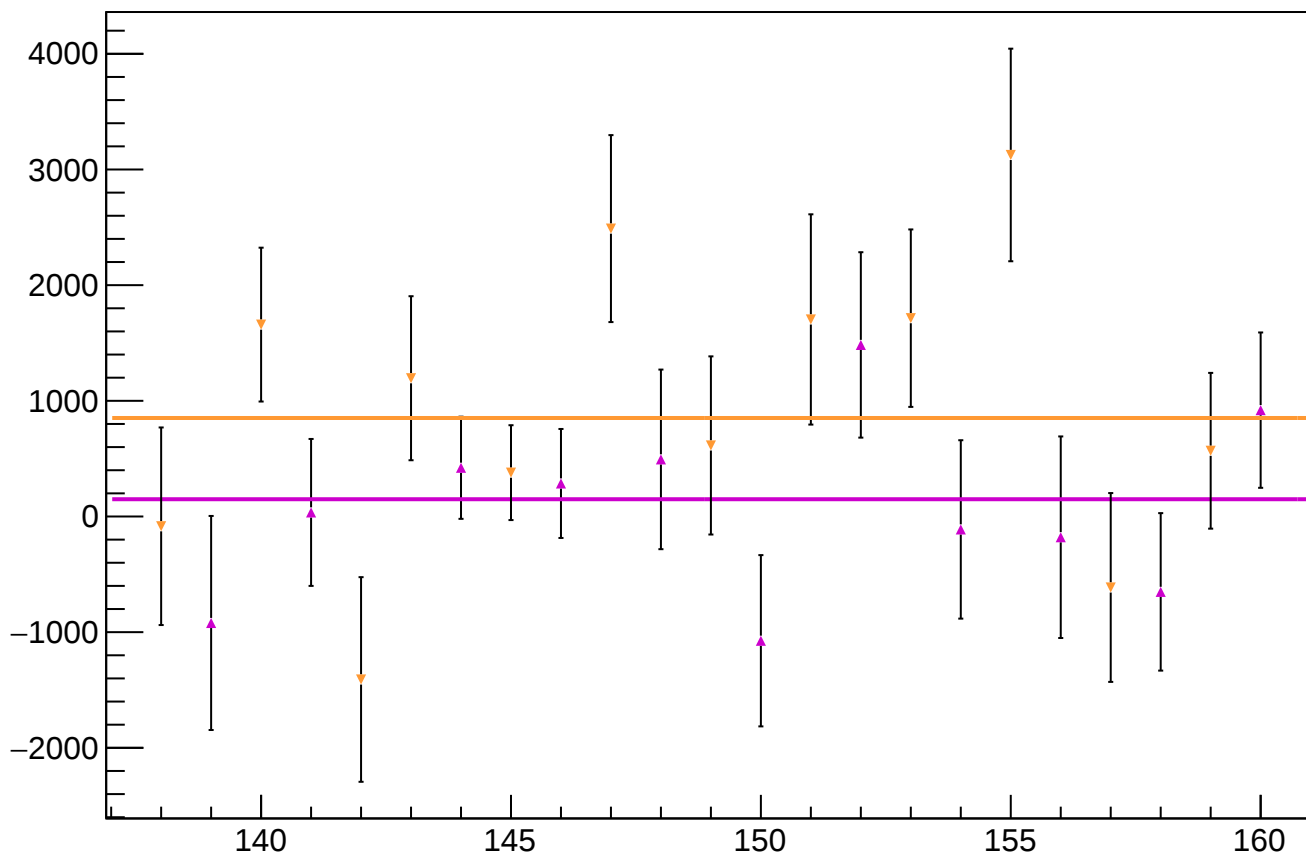
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 590.832+/-0.143  $\chi^2/\text{NDF}$ :866037.3/10

Out: 576.406+/-0.141  $\chi^2/\text{NDF}$ :1330581.9/11

All: 583.526+/-0.100  $\chi^2/\text{NDF}$ : 2201786.8/22

# asym\_sam\_3726\_avg\_mean vs Slug, Sign Corrected



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

Left Out: 851.593+/-204.705  $\chi^2/\text{NDF}$ : 26.6/11

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

Left In: 149.274+/-197.287  $\chi^2/\text{NDF}$ : 10.5/10

Left: 487.480+/-142.053  $\chi^2/\text{NDF}$ : 43.2/22

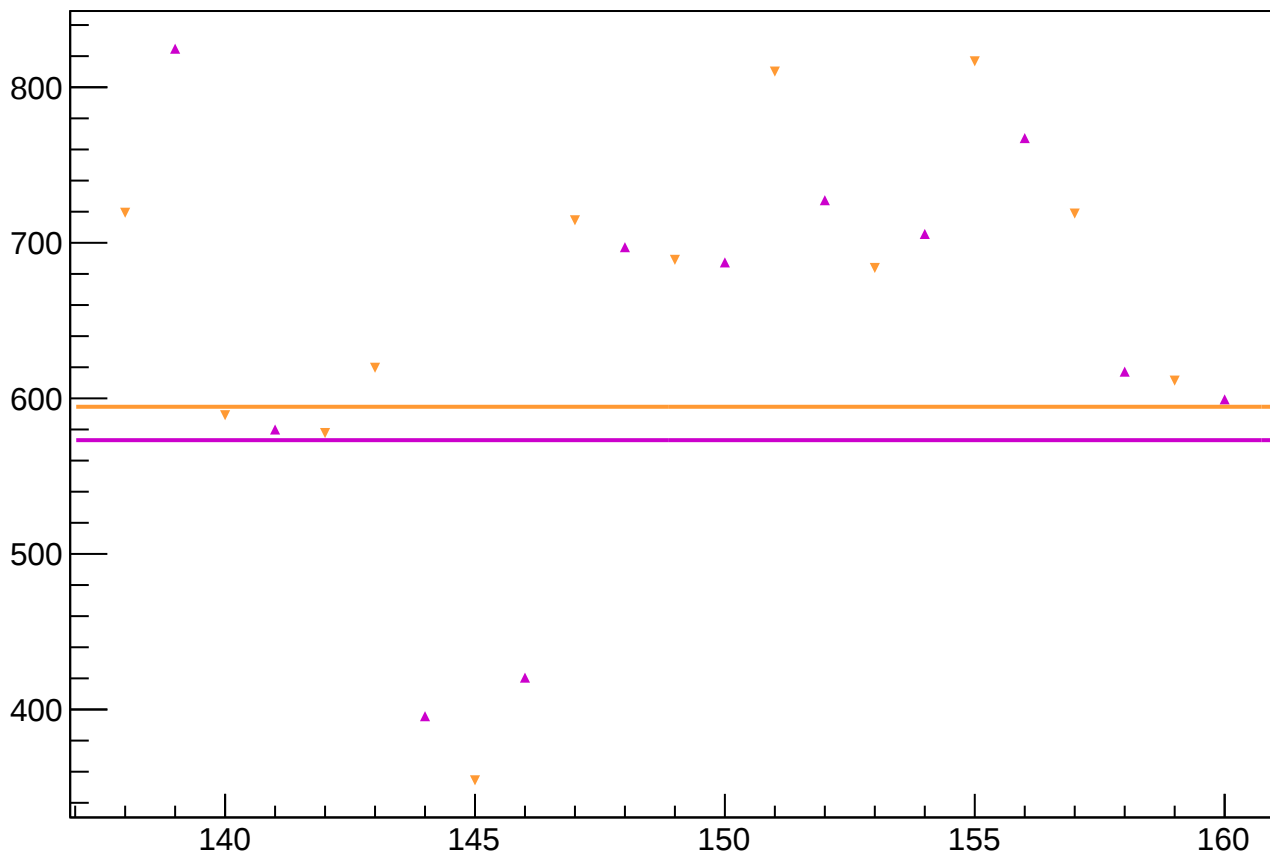
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 149.274+/-197.287  $\chi^2/\text{NDF}$ : 10.5/10

Out: 851.593+/-204.705  $\chi^2/\text{NDF}$ : 26.6/11

All: 487.480+/-142.053  $\chi^2/\text{NDF}$ : 43.2/22

asym\_sam\_3726\_avg\_rms vs Slug, Sign Corrected



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

Left Out: 594.601+/-0.145  $\chi^2/\text{NDF}$ :1109970.8/11

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

Left In: 573.132+/-0.140  $\chi^2/\text{NDF}$ :1023675.4/10

Left: 583.471+/-0.100  $\chi^2/\text{NDF}$ : 2145052.0/22

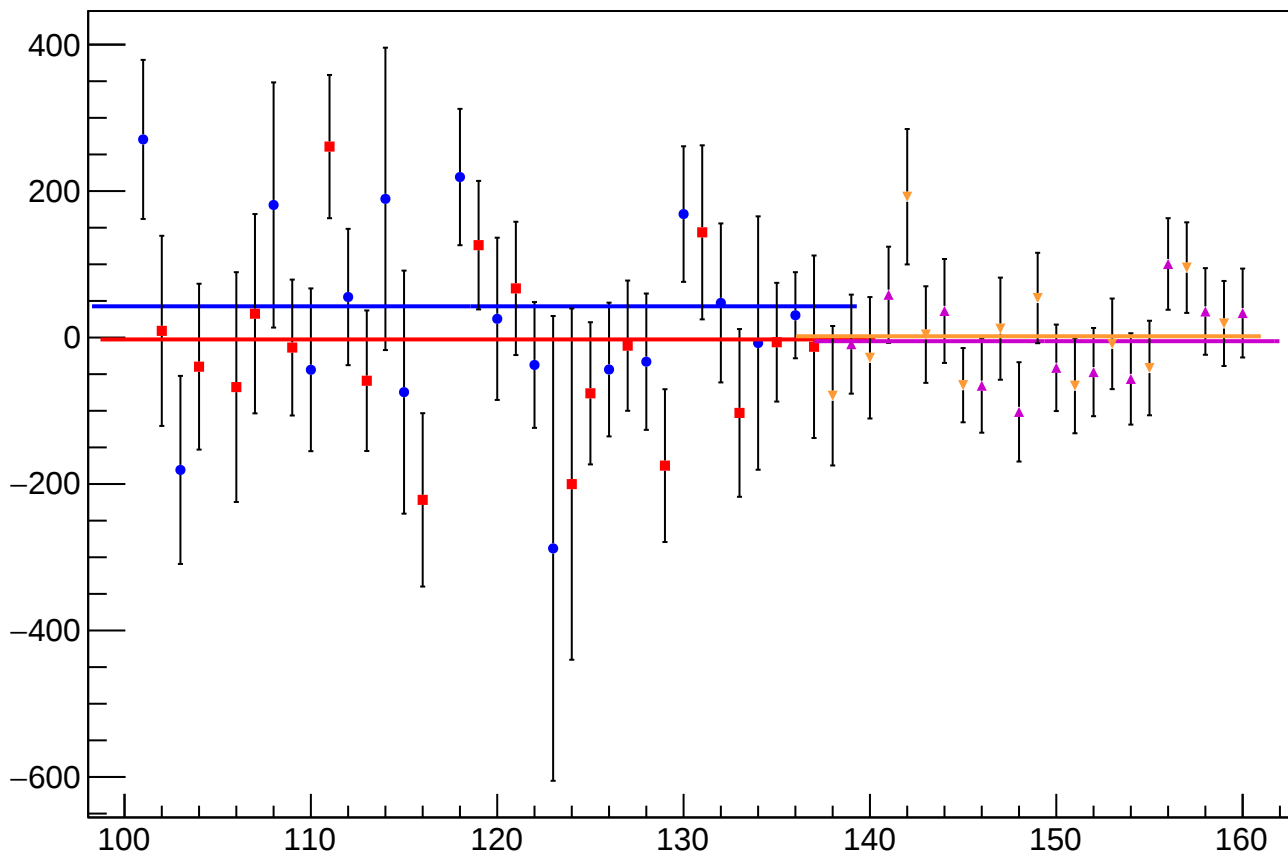
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 573.132+/-0.140  $\chi^2/\text{NDF}$ :1023675.4/10

Out: 594.601+/-0.145  $\chi^2/\text{NDF}$ :1109970.8/11

All: 583.471+/-0.100  $\chi^2/\text{NDF}$ : 2145052.0/22

dit\_asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 42.654 $\pm$ 25.486  $\chi^2/\text{NDF}$ : 18.9/16

Left Out: 1.754 $\pm$ 19.045  $\chi^2/\text{NDF}$ : 11.5/11

Right Out: -2.576 $\pm$ 25.088  $\chi^2/\text{NDF}$ : 20.4/17

Left In: -4.972 $\pm$ 19.097  $\chi^2/\text{NDF}$ : 9.5/10

Left: -1.600 $\pm$ 13.485  $\chi^2/\text{NDF}$ : 21.1/22

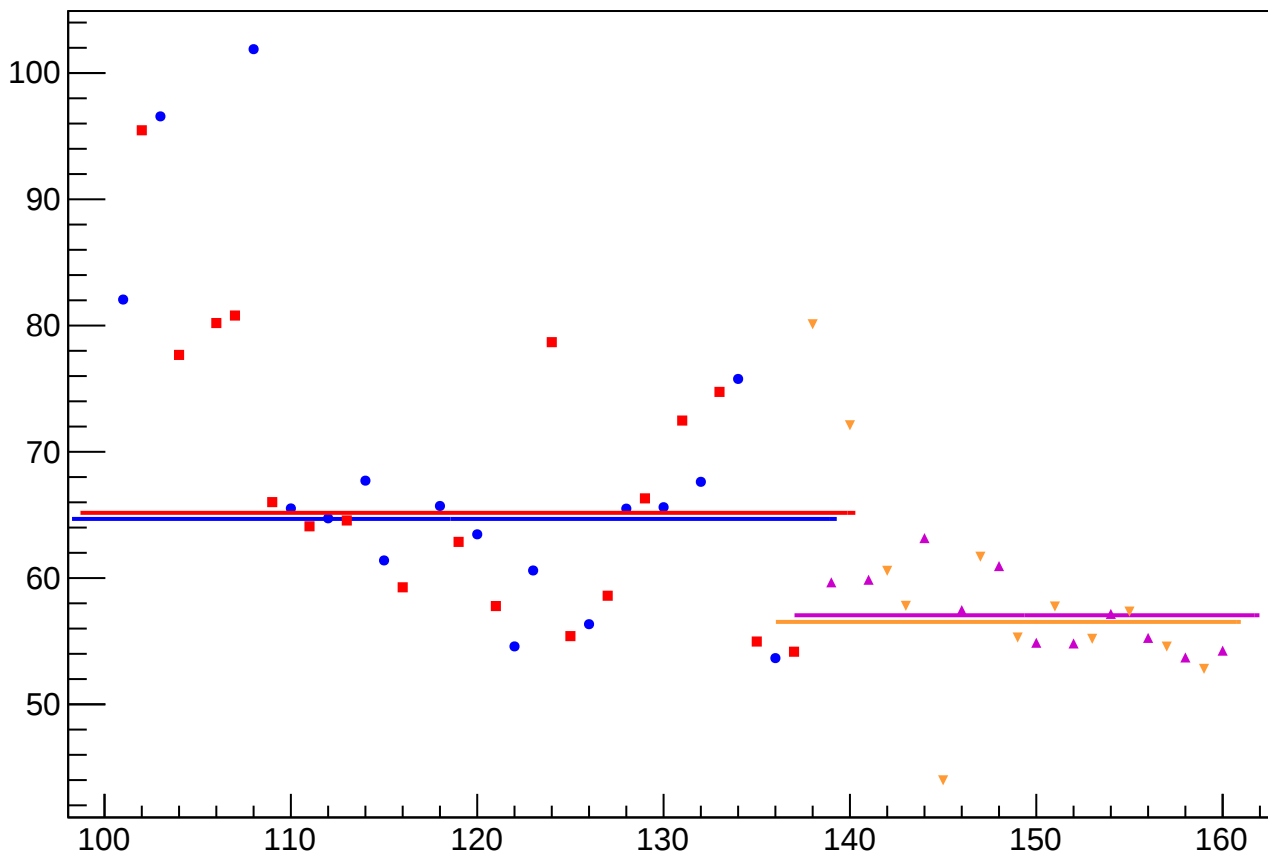
Right: 19.683 $\pm$ 17.879  $\chi^2/\text{NDF}$ : 40.9/34

In: 12.153 $\pm$ 15.282  $\chi^2/\text{NDF}$ : 30.6/27

Out: 0.171 $\pm$ 15.169  $\chi^2/\text{NDF}$ : 32.0/29

All: 6.118 $\pm$ 10.766  $\chi^2/\text{NDF}$ : 62.8/57

dit\_asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 64.685 $\pm$ 0.018  $\chi^2$ /NDF: 400187.1/16

Left Out: 56.529 $\pm$ 0.013  $\chi^2$ /NDF:344239.9/11

Right Out: 65.167 $\pm$ 0.018  $\chi^2$ /NDF: 304580.7/17

Left In: 57.054 $\pm$ 0.014  $\chi^2$ /NDF:45931.0/10

Left: 56.791 $\pm$ 0.010  $\chi^2$ /NDF: 390928.6/22

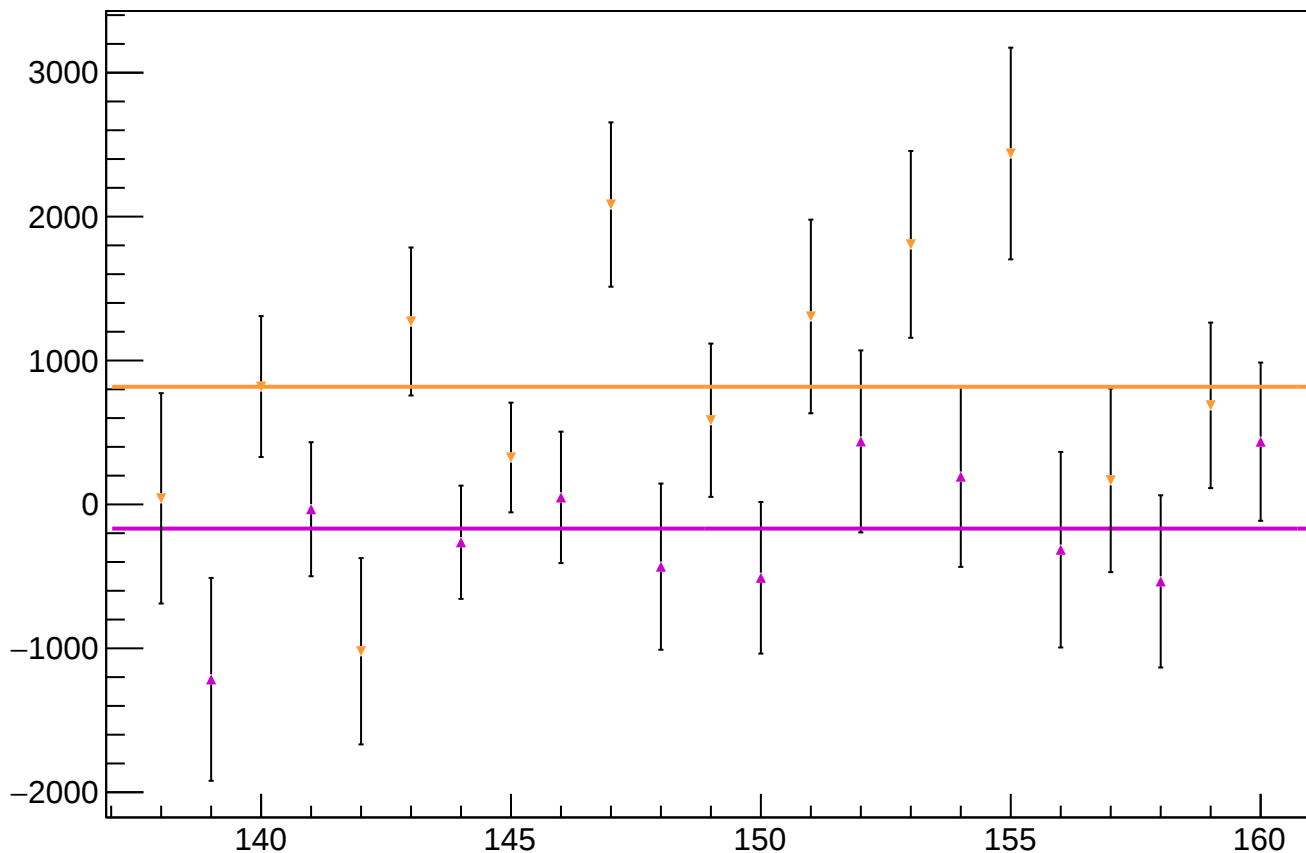
Right: 64.930 $\pm$ 0.013  $\chi^2$ /NDF: 705130.8/34

In: 59.798 $\pm$ 0.011  $\chi^2$ /NDF:560961.0/27

Out: 59.687 $\pm$ 0.011  $\chi^2$ /NDF:799240.4/29

All: 59.742 $\pm$ 0.008  $\chi^2$ /NDF: 1360254.5/57

asym\_sam\_15\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 817.633+/-163.080  $\chi^2/\text{NDF}$ : 25.5/11

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

Left In: -167.796+/-162.664  $\chi^2/\text{NDF}$ : 6.1/10

Left: 323.661+/-115.167  $\chi^2/\text{NDF}$ : 49.9/22

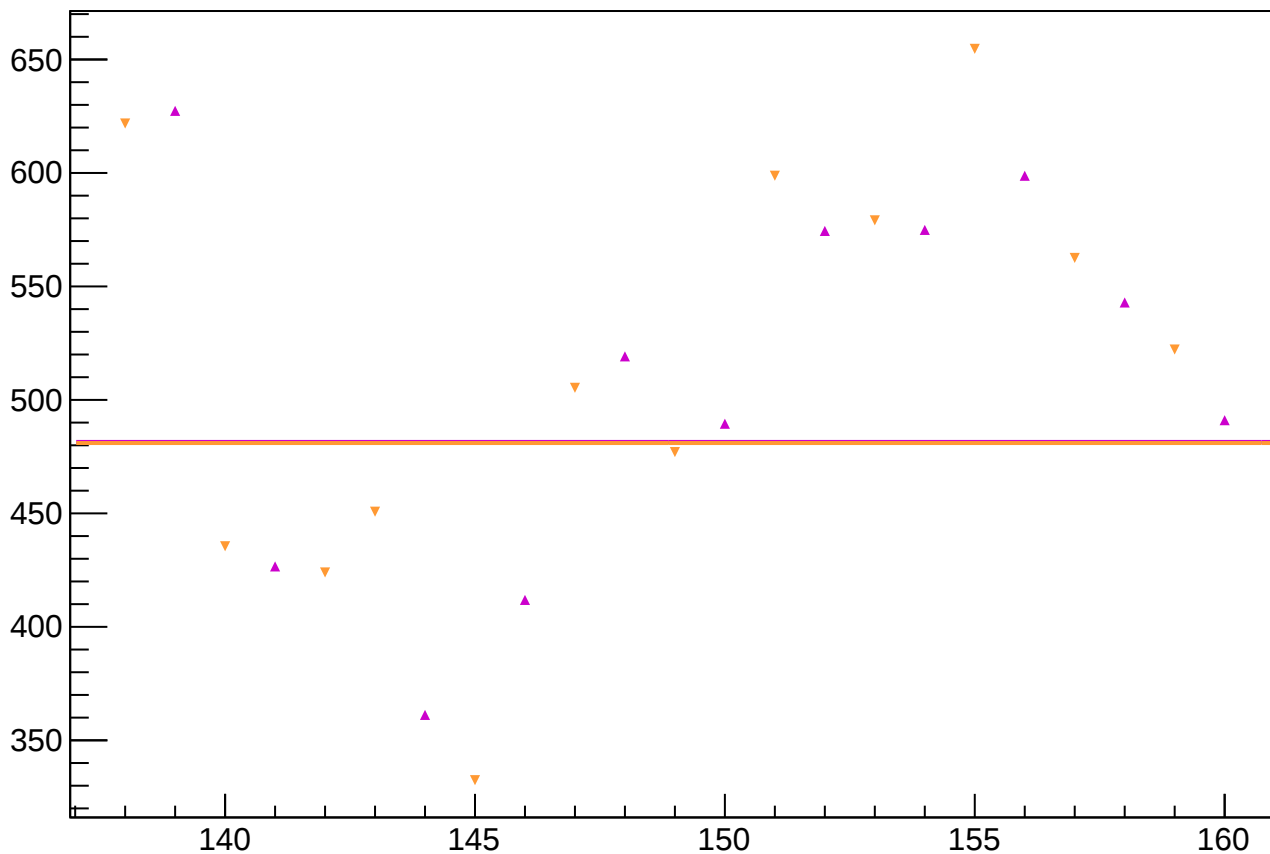
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -167.796+/-162.664  $\chi^2/\text{NDF}$ : 6.1/10

Out: 817.633+/-163.080  $\chi^2/\text{NDF}$ : 25.5/11

All: 323.661+/-115.167  $\chi^2/\text{NDF}$ : 49.9/22

asym\_sam\_15\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 480.997+/-0.115  $\chi^2/\text{NDF}$ : 683049.6/11

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

Left In: 481.481+/-0.115  $\chi^2/\text{NDF}$ : 524665.2/10

Left: 481.240+/-0.081  $\chi^2/\text{NDF}$ : 1207723.6/22

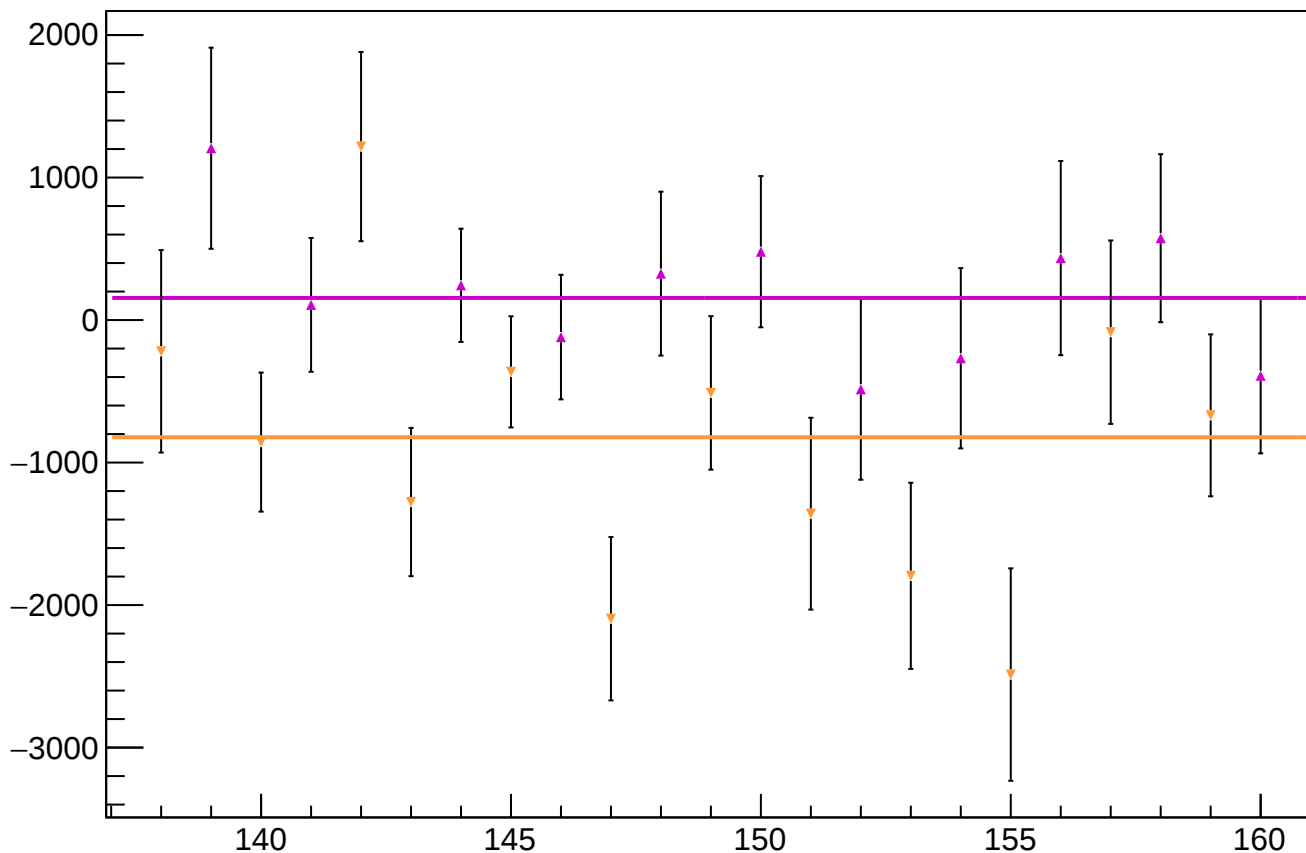
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 481.481+/-0.115  $\chi^2/\text{NDF}$ : 524665.2/10

Out: 480.997+/-0.115  $\chi^2/\text{NDF}$ : 683049.6/11

All: 481.240+/-0.081  $\chi^2/\text{NDF}$ : 1207723.6/22

asym\_sam\_15\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -822.128+/-164.229  $\chi^2/\text{NDF}$ : 26.8/11

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

Left In: 155.212+/-162.056  $\chi^2/\text{NDF}$ : 6.3/10

Left: -326.950+/-115.352  $\chi^2/\text{NDF}$ : 51.0/22

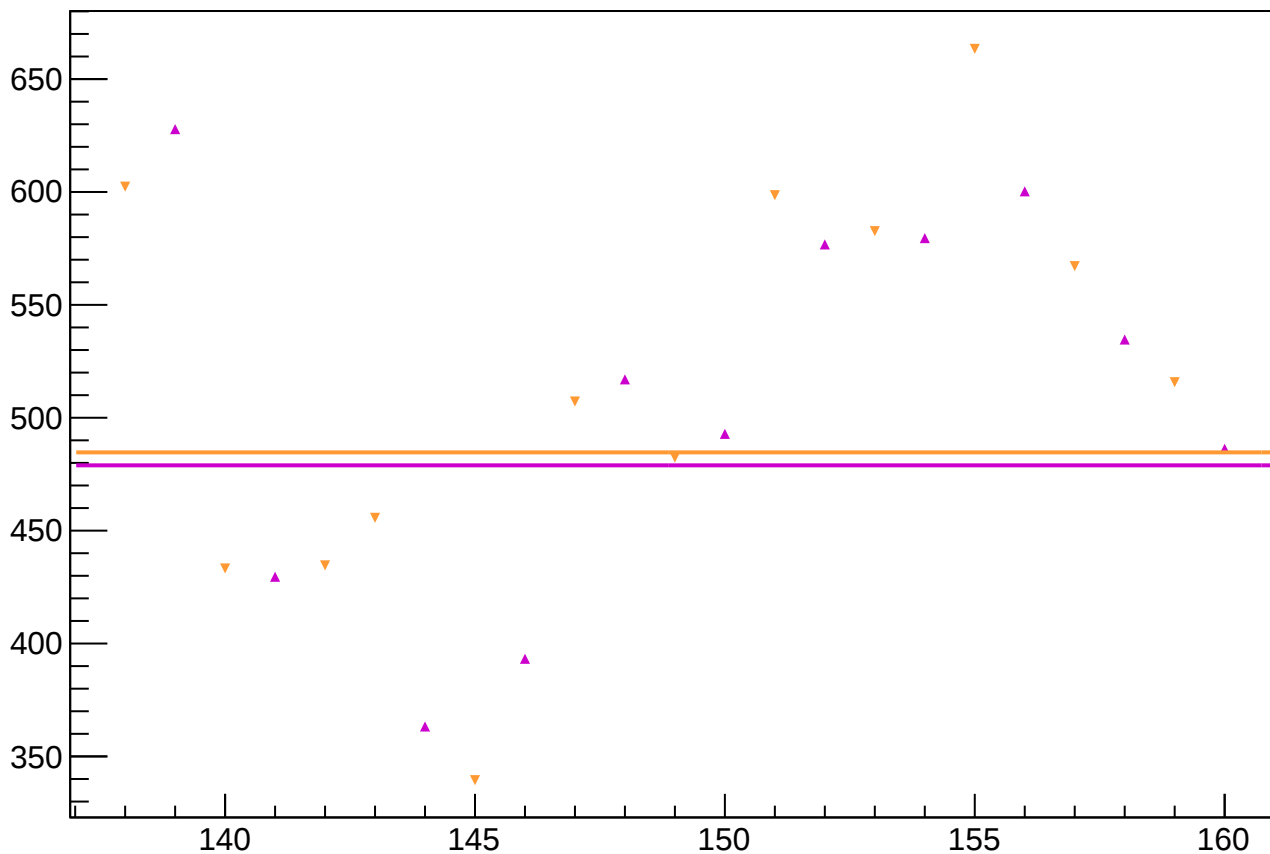
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 155.212+/-162.056  $\chi^2/\text{NDF}$ : 6.3/10

Out: -822.128+/-164.229  $\chi^2/\text{NDF}$ : 26.8/11

All: -326.950+/-115.352  $\chi^2/\text{NDF}$ : 51.0/22

asym\_sam\_15\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 484.667+/-0.116  $\chi^2/\text{NDF}$ :631182.7/11

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

Left In: 478.923+/-0.115  $\chi^2/\text{NDF}$ :547503.1/10

Left: 481.757+/-0.082  $\chi^2/\text{NDF}$ : 1179925.1/22

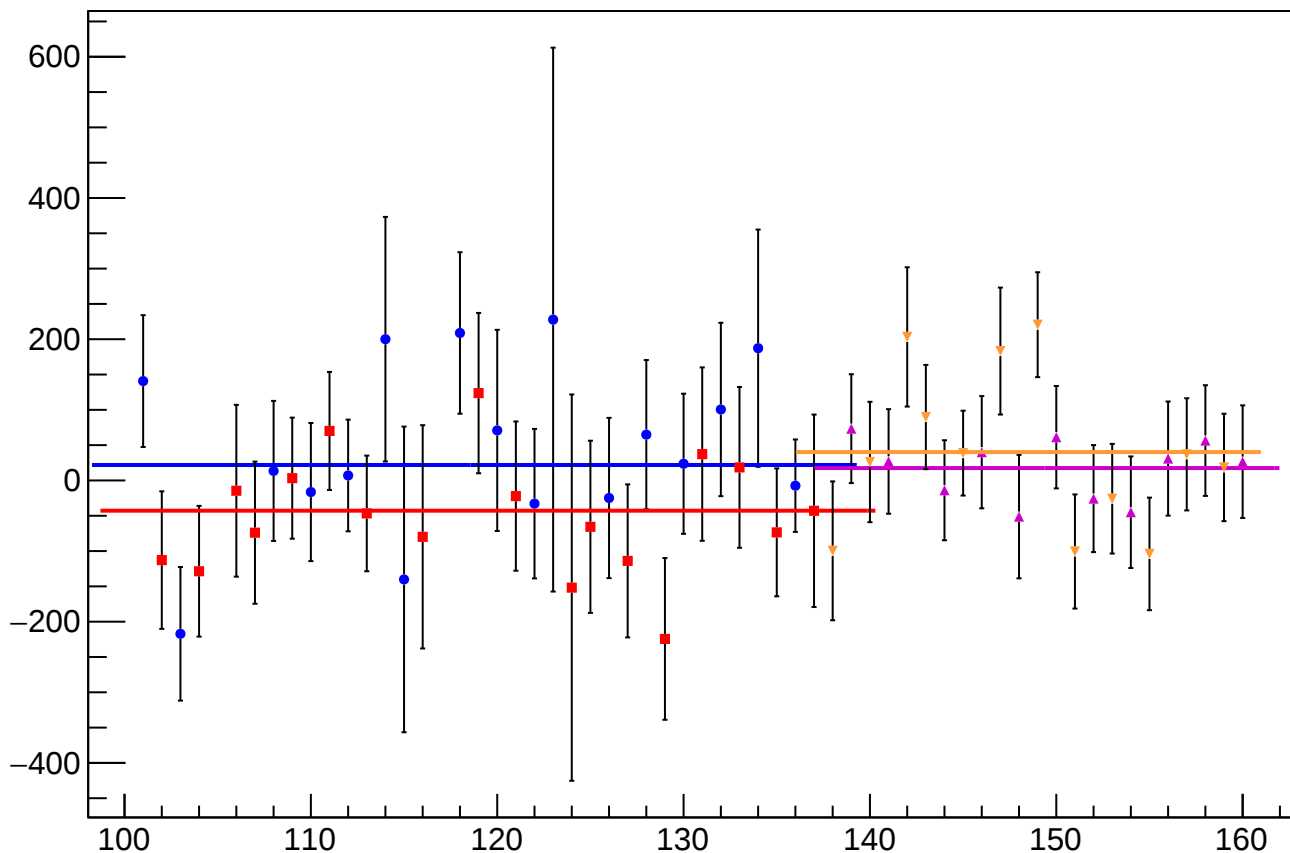
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 478.923+/-0.115  $\chi^2/\text{NDF}$ :547503.1/10

Out: 484.667+/-0.116  $\chi^2/\text{NDF}$ :631182.7/11

All: 481.757+/-0.082  $\chi^2/\text{NDF}$ : 1179925.1/22

dit\_asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



Right In: 21.908 $\pm$ 26.055  $\chi^2$ /NDF: 15.1/16

Left Out: 40.182 $\pm$ 22.838  $\chi^2$ /NDF:20.8/11

Right Out: -42.817 $\pm$ 25.116  $\chi^2$ /NDF: 9.9/17

Left In: 17.535 $\pm$ 23.332  $\chi^2$ /NDF:3.0/10

Left: 29.101 $\pm$ 16.321  $\chi^2$ /NDF: 24.3/22

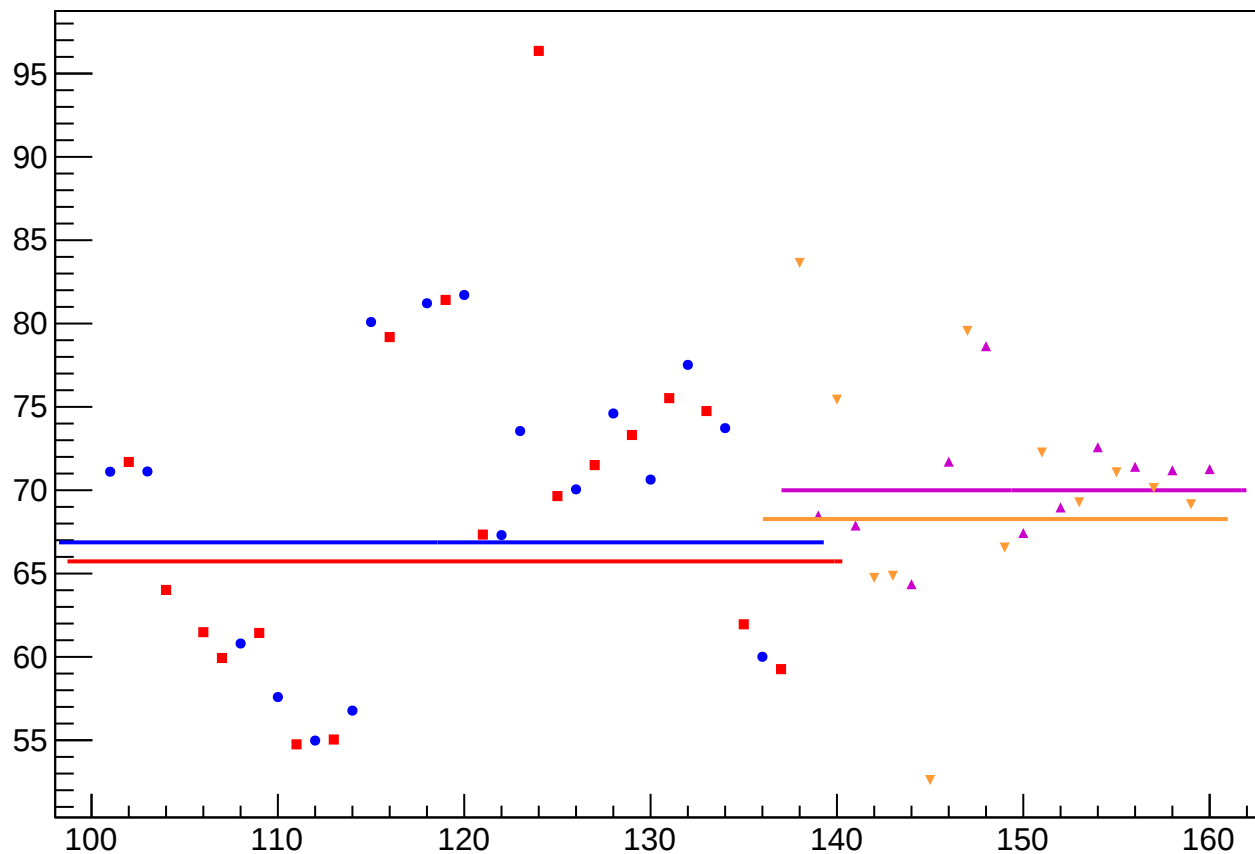
Right: -11.642 $\pm$ 18.082  $\chi^2$ /NDF: 28.1/34

In: 19.481 $\pm$ 17.382  $\chi^2$ /NDF:18.1/27

Out: 2.617 $\pm$ 16.897  $\chi^2$ /NDF:36.6/29

All: 10.811 $\pm$ 12.116  $\chi^2$ /NDF: 55.2/57

dit\_asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



Right In: 66.872 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 202515.6/16

Left Out: 68.270 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 247323.2/11

Right Out: 65.731 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 218867.5/17

Left In: 69.996 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 42137.0/10

Left: 69.115 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 295052.2/22

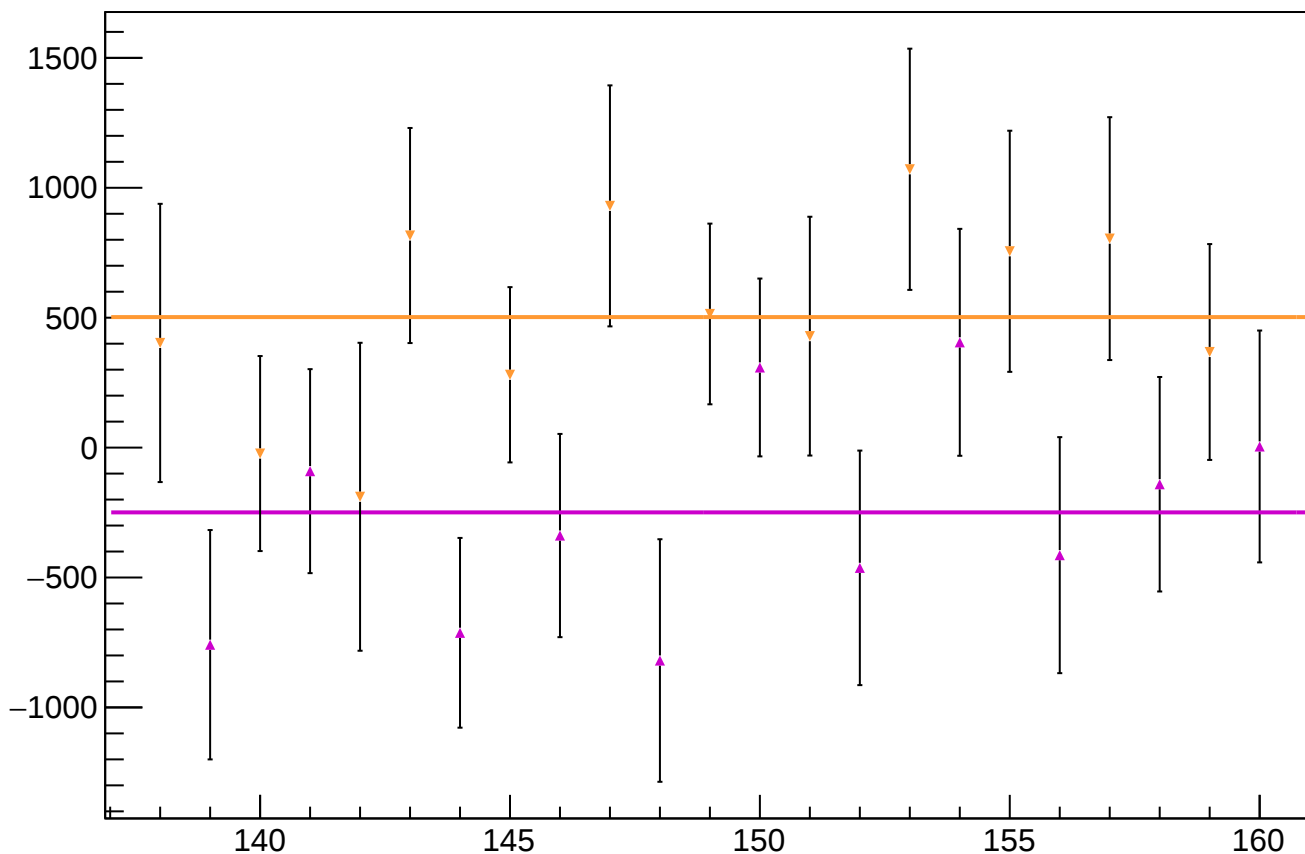
Right: 66.280 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 423373.0/34

In: 68.606 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 260611.5/27

Out: 67.121 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 477382.4/29

All: 67.842 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 745502.6/57

asym\_sam\_37\_48\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 502.317+/-123.684  $\chi^2/\text{NDF}$ :7.6/11

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

Left In: -249.341+/-124.348  $\chi^2/\text{NDF}$ :10.3/10

Left: 128.502+/-87.692  $\chi^2/\text{NDF}$ : 36.2/22

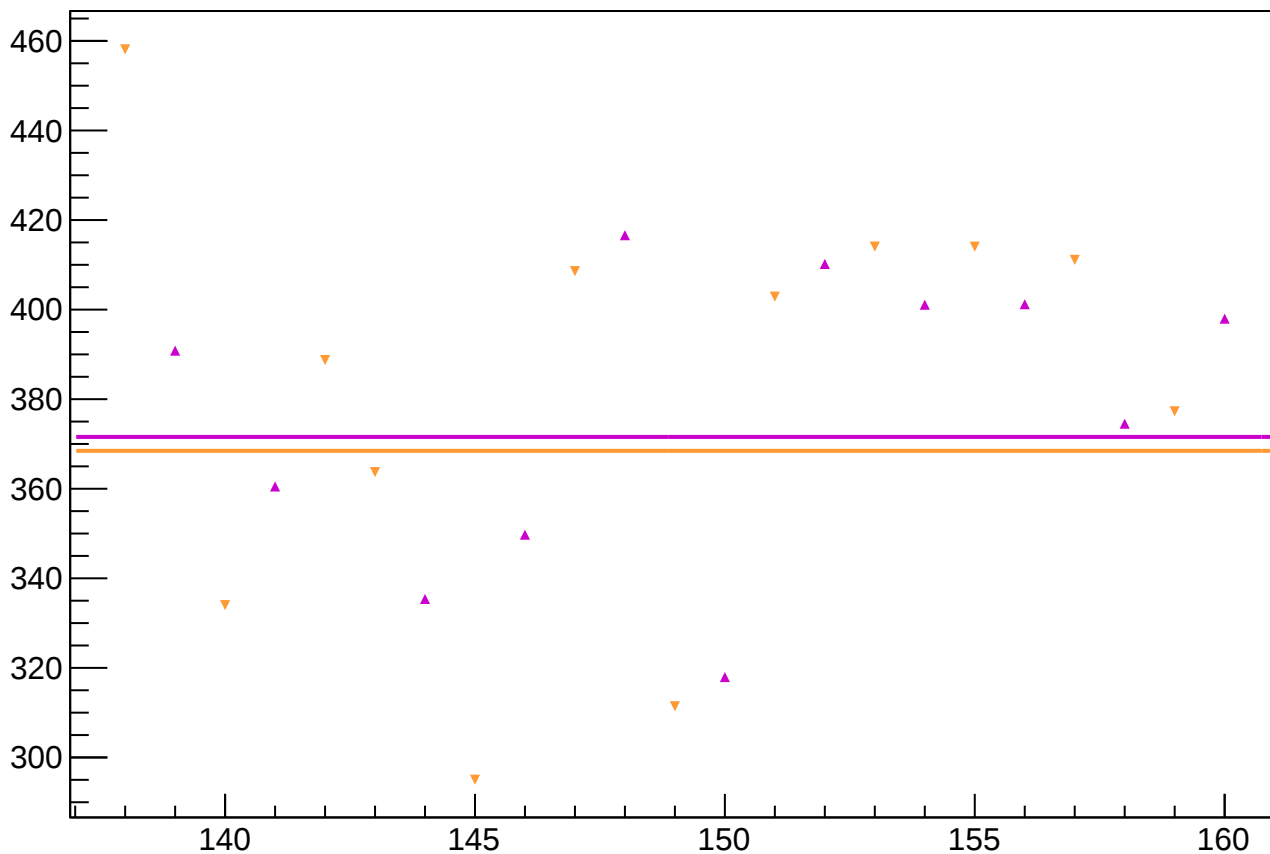
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -249.341+/-124.348  $\chi^2/\text{NDF}$ :10.3/10

Out: 502.317+/-123.684  $\chi^2/\text{NDF}$ :7.6/11

All: 128.502+/-87.692  $\chi^2/\text{NDF}$ : 36.2/22

asym\_sam\_37\_48\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 368.467+/-0.087  $\chi^2/\text{NDF}$ :306498.7/11

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

Left In: 371.574+/-0.088  $\chi^2/\text{NDF}$ :138384.4/10

Left: 370.012+/-0.062  $\chi^2/\text{NDF}$ : 445510.9/22

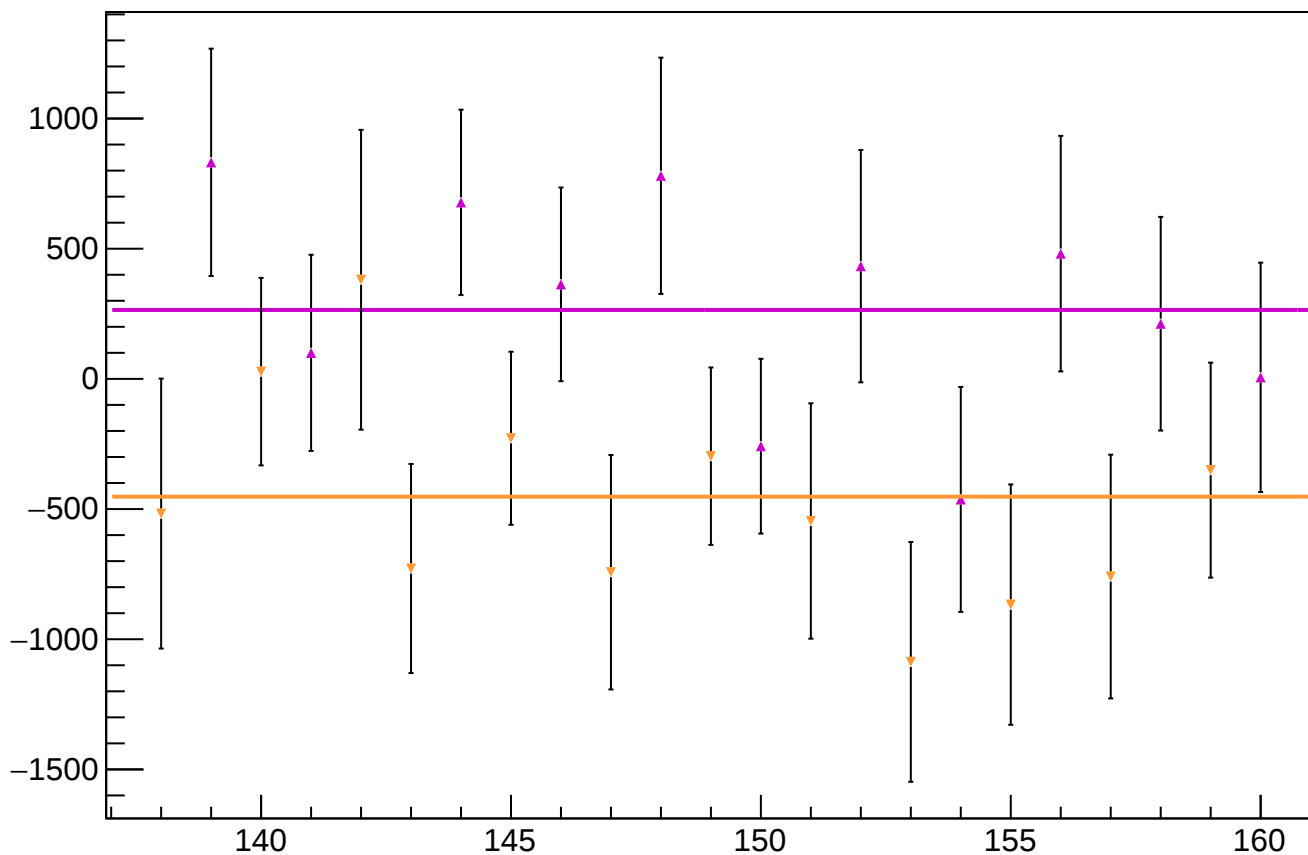
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 371.574+/-0.088  $\chi^2/\text{NDF}$ :138384.4/10

Out: 368.467+/-0.087  $\chi^2/\text{NDF}$ :306498.7/11

All: 370.012+/-0.062  $\chi^2/\text{NDF}$ : 445510.9/22

asym\_sam\_37\_48\_dd\_mean vs Slug, Sign Corrected



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

Left Out:  $-452.291 \pm 121.280$   $\chi^2/\text{NDF}: 8.7/11$

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

Left In:  $264.786 \pm 121.712$   $\chi^2/\text{NDF}: 10.6/10$

Left:  $-95.029 \pm 85.910$   $\chi^2/\text{NDF}: 36.7/22$

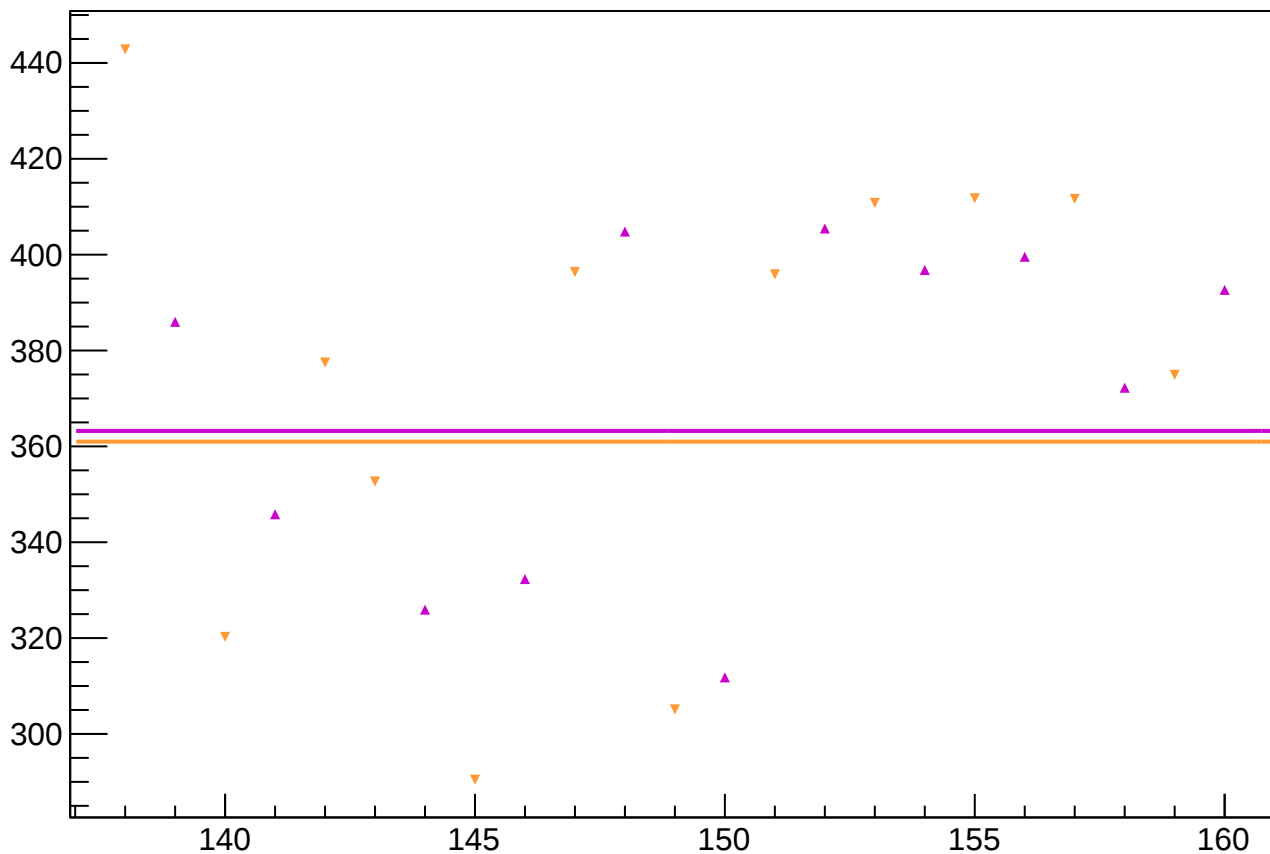
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $264.786 \pm 121.712$   $\chi^2/\text{NDF}: 10.6/10$

Out:  $-452.291 \pm 121.280$   $\chi^2/\text{NDF}: 8.7/11$

All:  $-95.029 \pm 85.910$   $\chi^2/\text{NDF}: 36.7/22$

asym\_sam\_37\_48\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 360.985+/-0.086  $\chi^2/\text{NDF}$ : 319387.3/11

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

Left In: 363.224+/-0.086  $\chi^2/\text{NDF}$ : 162003.7/10

Left: 362.100+/-0.061  $\chi^2/\text{NDF}$ : 481730.4/22

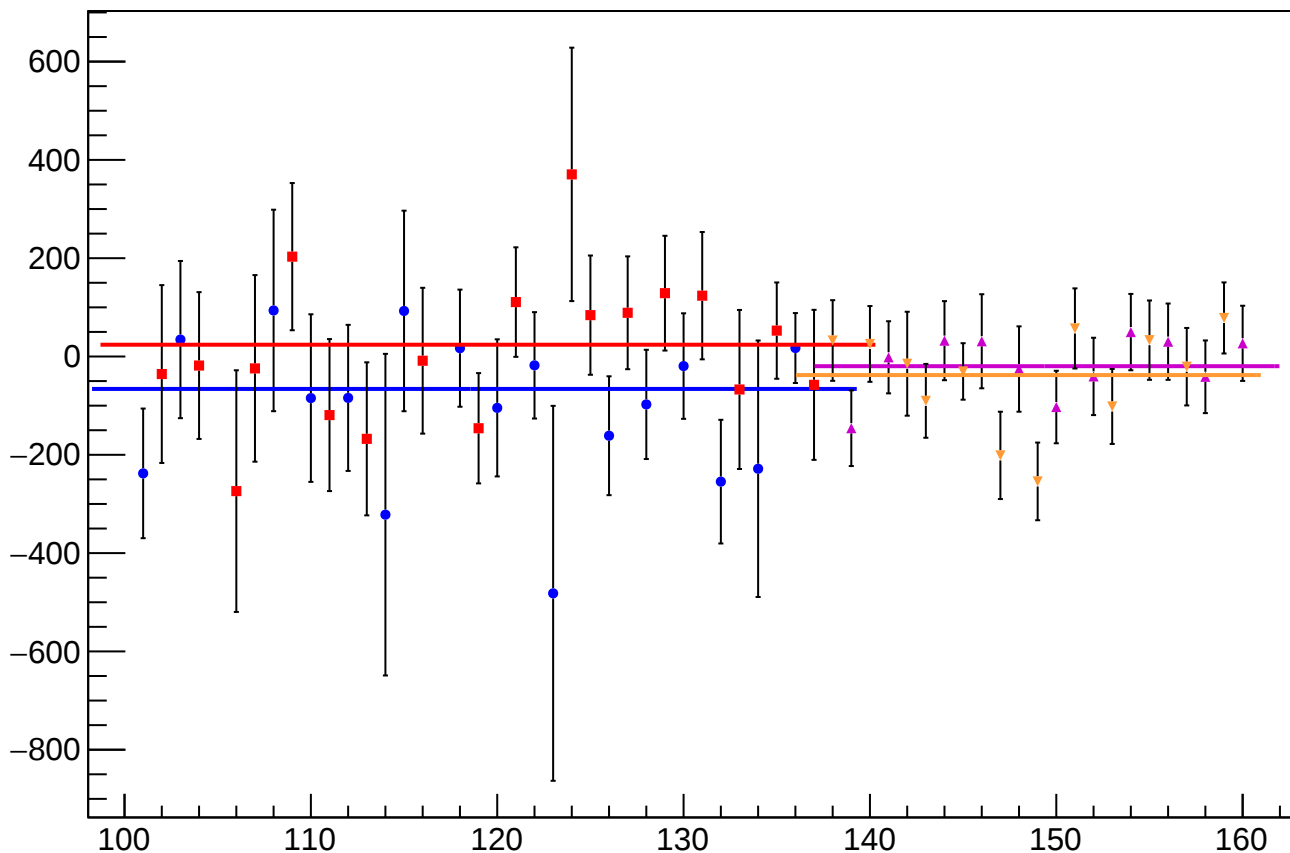
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 363.224+/-0.086  $\chi^2/\text{NDF}$ : 162003.7/10

Out: 360.985+/-0.086  $\chi^2/\text{NDF}$ : 319387.3/11

All: 362.100+/-0.061  $\chi^2/\text{NDF}$ : 481730.4/22

dit\_asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $-65.974 \pm 32.289$   $\chi^2/\text{NDF}: 10.8/16$

Left Out:  $-37.796 \pm 22.352$   $\chi^2/\text{NDF}: 18.3/11$

Right Out:  $23.979 \pm 32.790$   $\chi^2/\text{NDF}: 12.9/17$

Left In:  $-19.707 \pm 23.691$   $\chi^2/\text{NDF}: 6.5/10$

Left:  $-29.277 \pm 16.258$   $\chi^2/\text{NDF}: 25.1/22$

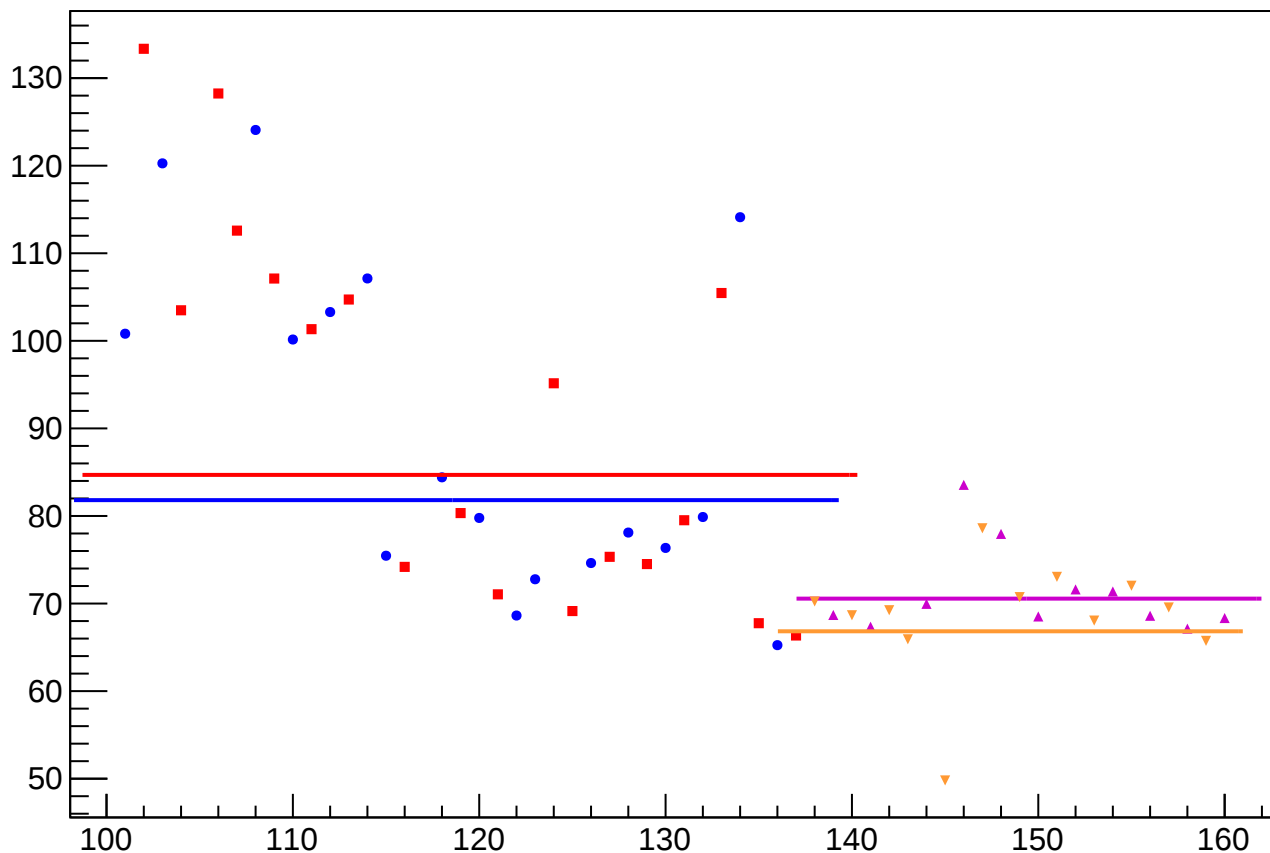
Right:  $-21.690 \pm 23.007$   $\chi^2/\text{NDF}: 27.5/34$

In:  $-35.898 \pm 19.101$   $\chi^2/\text{NDF}: 18.6/27$

Out:  $-18.197 \pm 18.469$   $\chi^2/\text{NDF}: 33.7/29$

All:  $-26.750 \pm 13.277$   $\chi^2/\text{NDF}: 52.7/57$

dit\_asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 81.809 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 507195.8/16

Left Out: 66.831 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 244867.5/11

Right Out: 84.691 $\pm$ 0.023  $\chi^2/\text{NDF}$ : 615927.4/17

Left In: 70.561 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 65819.4/10

Left: 68.588 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 336914.5/22

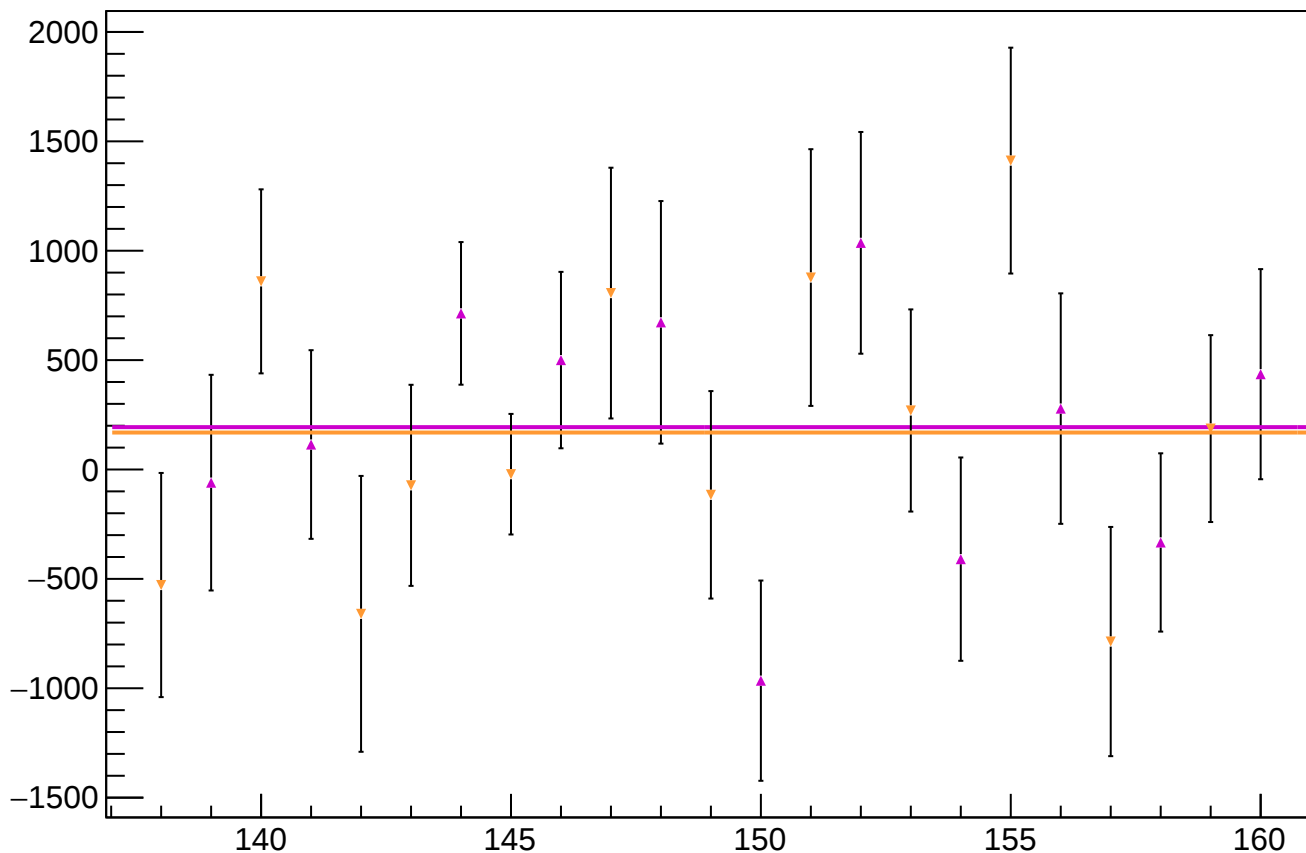
Right: 83.228 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 1130968.2/34

In: 74.497 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 730763.7/27

Out: 72.497 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 1265882.1/29

All: 73.464 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 2007978.2/57

asym\_sam\_15\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: 168.975+/-131.492  $\chi^2/\text{NDF}$ :19.3/11

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

Left In: 193.611+/-134.148  $\chi^2/\text{NDF}$ :17.0/10

Left: 181.047+/-93.904  $\chi^2/\text{NDF}$ : 36.3/22

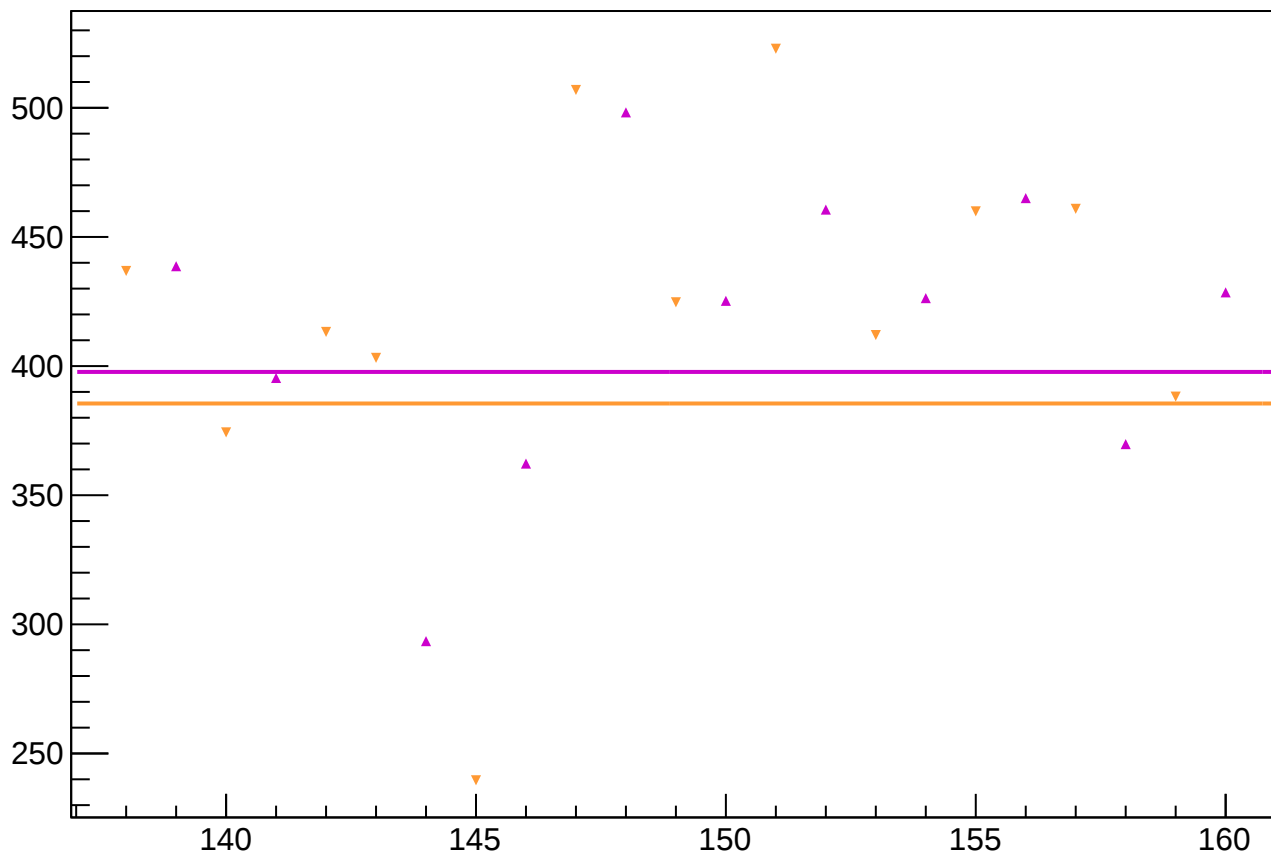
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 193.611+/-134.148  $\chi^2/\text{NDF}$ :17.0/10

Out: 168.975+/-131.492  $\chi^2/\text{NDF}$ :19.3/11

All: 181.047+/-93.904  $\chi^2/\text{NDF}$ : 36.3/22

asym\_sam\_15\_26\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 385.516+/-0.093  $\chi^2/\text{NDF}$ : 891444.1/11

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

Left In: 397.740+/-0.095  $\chi^2/\text{NDF}$ : 395461.3/10

Left: 391.506+/-0.066  $\chi^2/\text{NDF}$ : 1295375.0/22

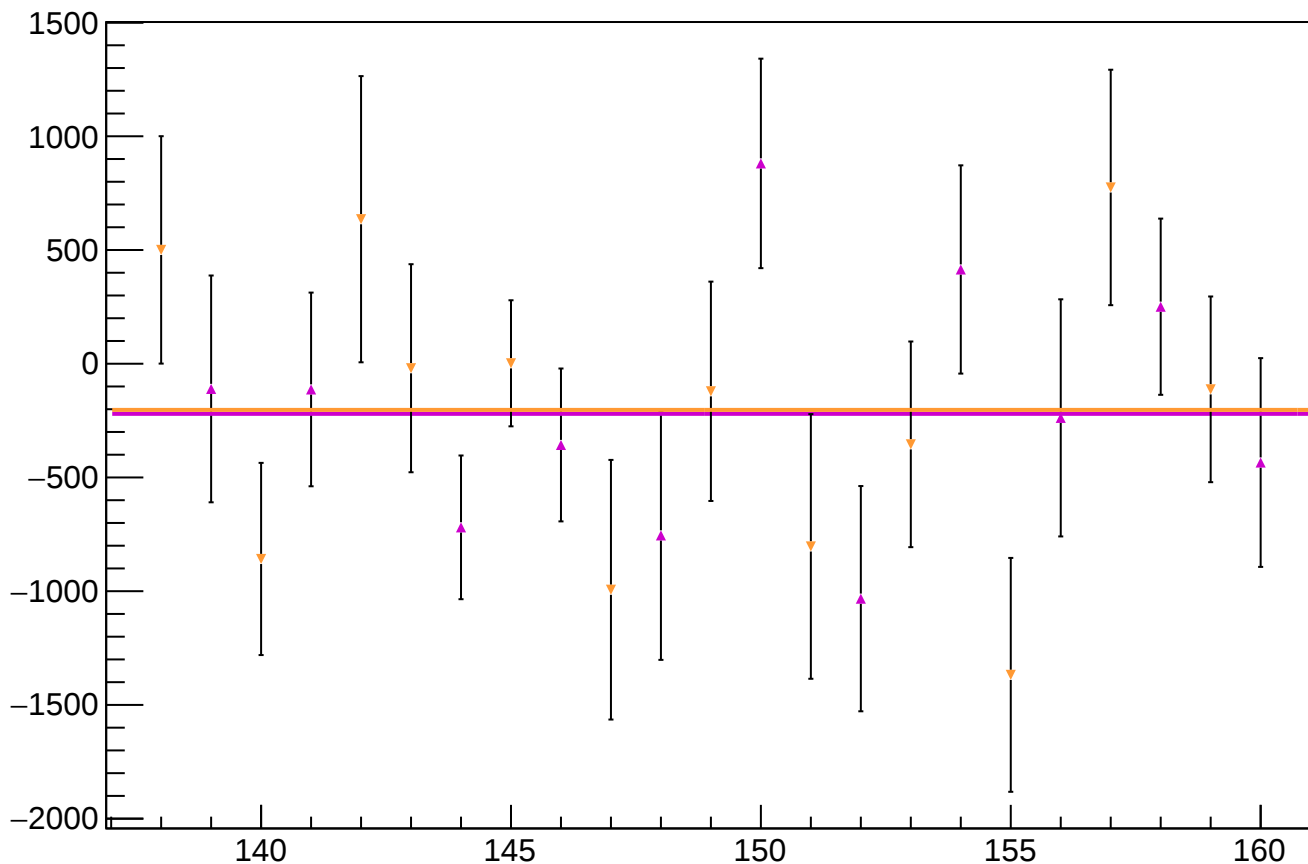
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 397.740+/-0.095  $\chi^2/\text{NDF}$ : 395461.3/10

Out: 385.516+/-0.093  $\chi^2/\text{NDF}$ : 891444.1/11

All: 391.506+/-0.066  $\chi^2/\text{NDF}$ : 1295375.0/22

asym\_sam\_15\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: -202.938+/-130.551  $\chi^2/\text{NDF}$ :18.7/11

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

Left In: -220.295+/-128.650  $\chi^2/\text{NDF}$ :15.8/10

Left: -211.744+/-91.634  $\chi^2/\text{NDF}$ : 34.5/22

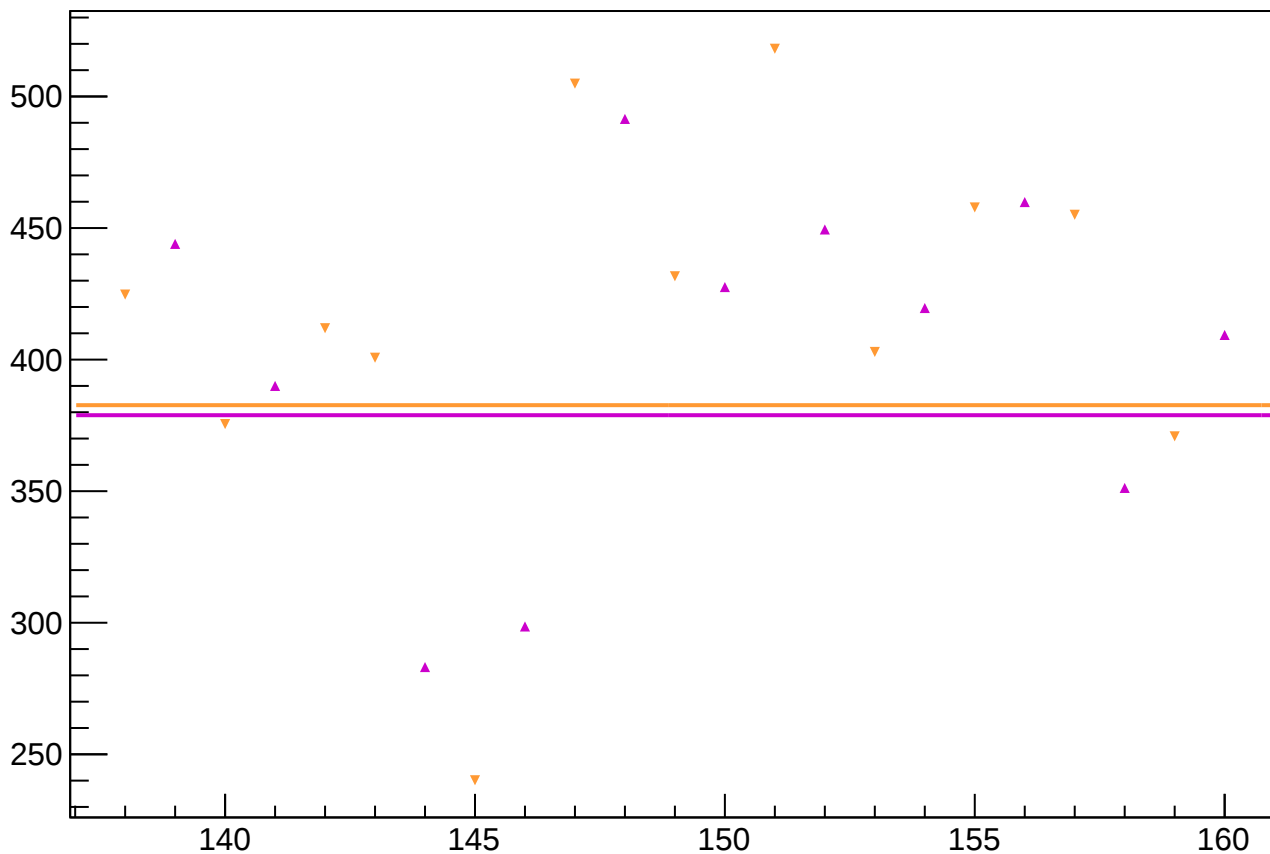
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -220.295+/-128.650  $\chi^2/\text{NDF}$ :15.8/10

Out: -202.938+/-130.551  $\chi^2/\text{NDF}$ :18.7/11

All: -211.744+/-91.634  $\chi^2/\text{NDF}$ : 34.5/22

asym\_sam\_15\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 382.686+/-0.092  $\chi^2/\text{NDF}$ :859632.9/11

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

Left In: 378.874+/-0.091  $\chi^2/\text{NDF}$ :564133.2/10

Left: 380.752+/-0.065  $\chi^2/\text{NDF}$ : 1424631.5/22

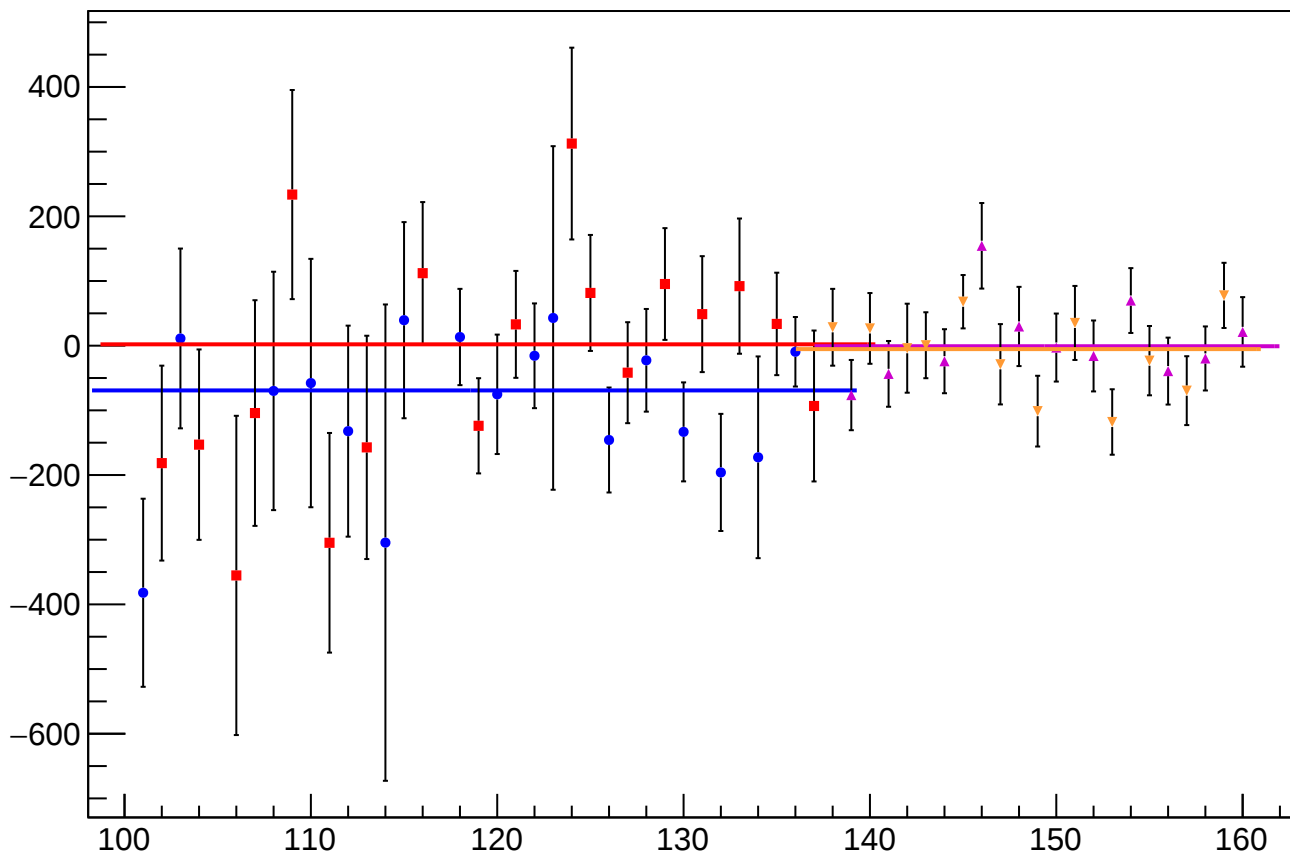
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 378.874+/-0.091  $\chi^2/\text{NDF}$ :564133.2/10

Out: 382.686+/-0.092  $\chi^2/\text{NDF}$ :859632.9/11

All: 380.752+/-0.065  $\chi^2/\text{NDF}$ : 1424631.5/22

dit\_asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



Right In:  $-69.188 \pm 24.260$   $\chi^2/\text{NDF}$ : 13.5/16

Left Out:  $-5.313 \pm 15.457$   $\chi^2/\text{NDF}$ : 16.8/11

Right Out:  $2.082 \pm 25.187$   $\chi^2/\text{NDF}$ : 23.8/17

Left In:  $-0.866 \pm 16.121$   $\chi^2/\text{NDF}$ : 11.5/10

Left:  $-3.183 \pm 11.157$   $\chi^2/\text{NDF}$ : 28.4/22

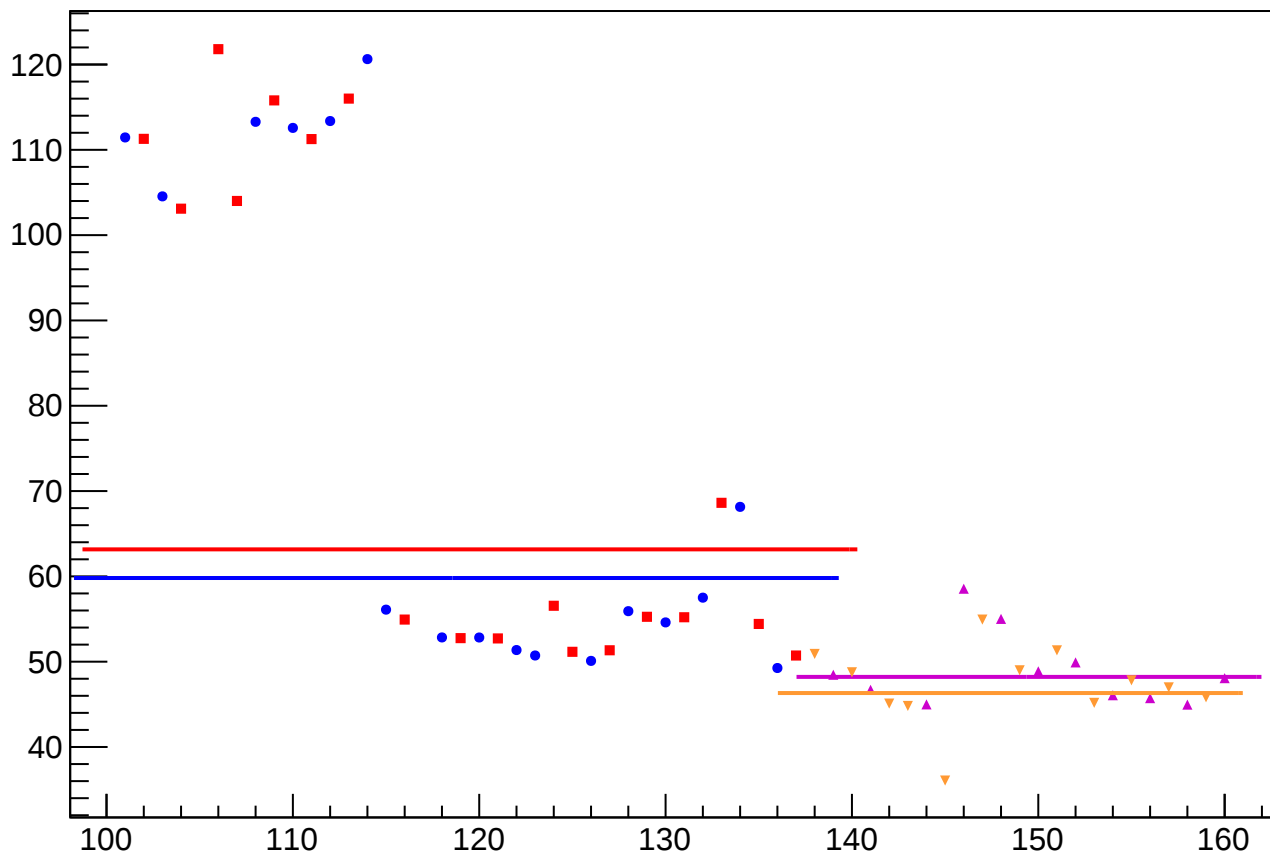
Right:  $-34.889 \pm 17.473$   $\chi^2/\text{NDF}$ : 41.4/34

In:  $-21.793 \pm 13.427$   $\chi^2/\text{NDF}$ : 30.5/27

Out:  $-3.290 \pm 13.174$   $\chi^2/\text{NDF}$ : 40.6/29

All:  $-12.366 \pm 9.403$   $\chi^2/\text{NDF}$ : 72.1/57

dit\_asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



Right In: 59.809 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 1229983.3/16

Left Out: 46.325 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 203528.8/11

Right Out: 63.166 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 1387305.6/17

Left In: 48.218 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 102928.9/10

Left: 47.231 $\pm$ 0.008  $\chi^2/\text{NDF}$ : 320821.6/22

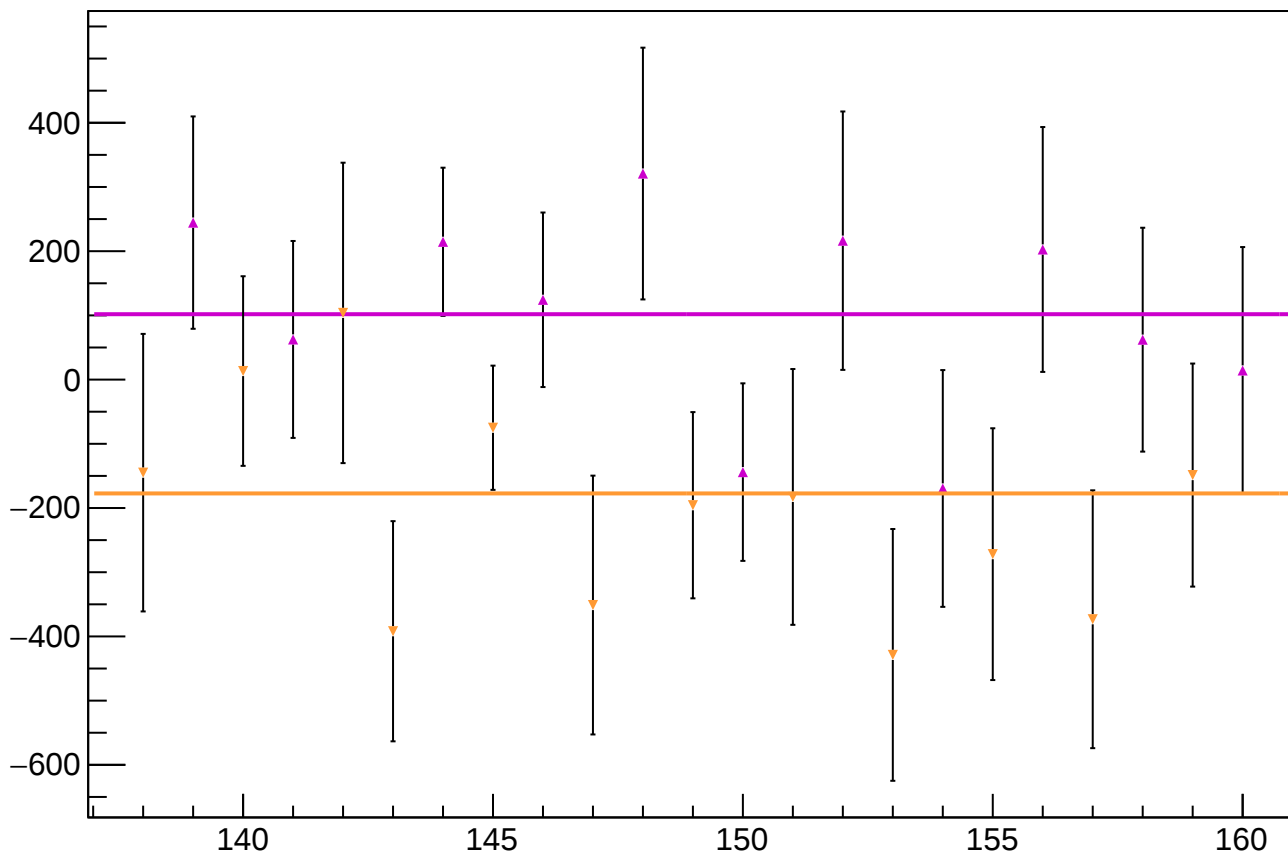
Right: 61.424 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 2635717.1/34

In: 51.768 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 1649623.5/27

Out: 50.932 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 2240348.2/29

All: 51.342 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 3893920.9/57

asym\_sam\_37\_26\_dd\_correction\_mean vs Slug, Sign Corrected



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

Left Out: -177.283+/-48.014  $\chi^2/\text{NDF}$ : 9.4/11

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

Left In: 101.861+/-48.323  $\chi^2/\text{NDF}$ : 9.2/10

Left: -38.608+/-34.060  $\chi^2/\text{NDF}$ : 35.5/22

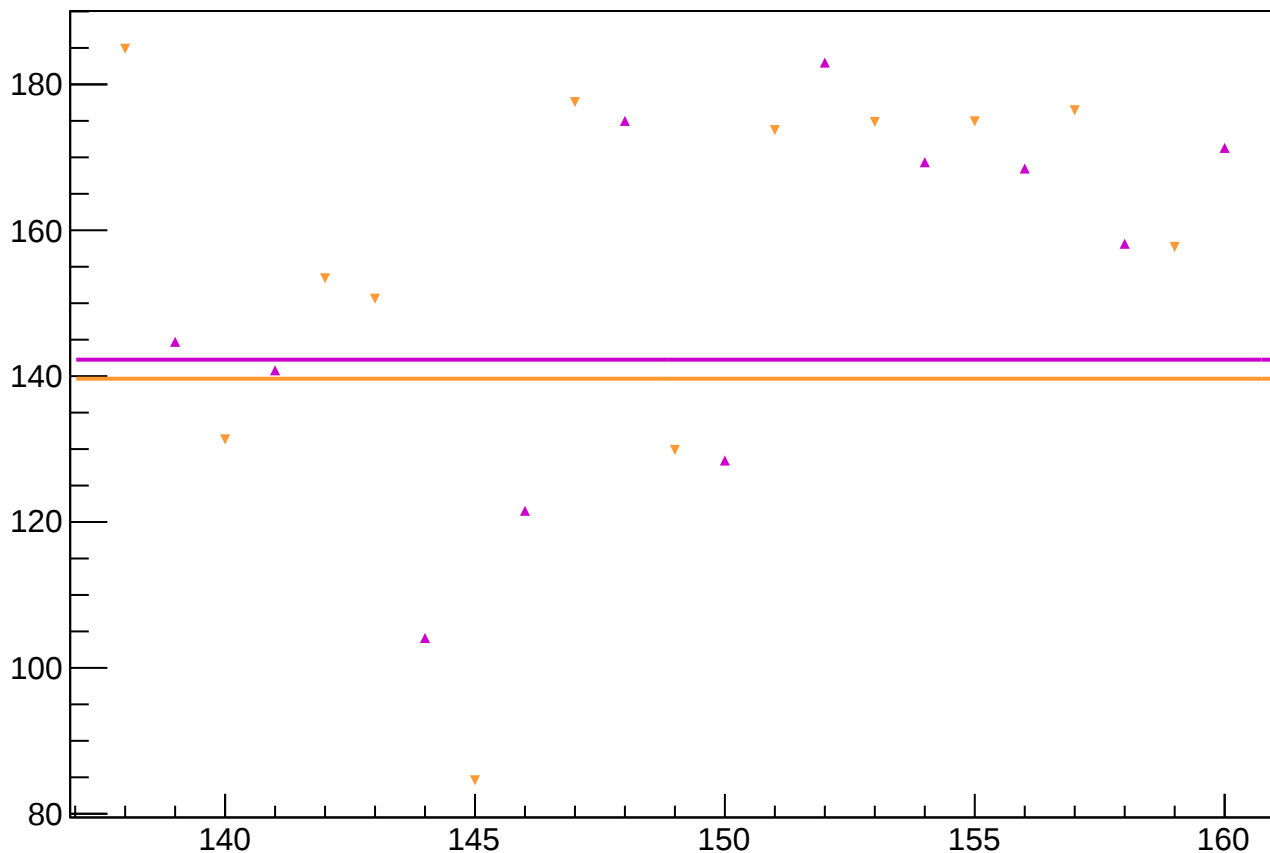
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 101.861+/-48.323  $\chi^2/\text{NDF}$ : 9.2/10

Out: -177.283+/-48.014  $\chi^2/\text{NDF}$ : 9.4/11

All: -38.608+/-34.060  $\chi^2/\text{NDF}$ : 35.5/22

asym\_sam\_37\_26\_dd\_correction\_rms vs Slug, Sign Corrected



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

Left Out: 139.649+/-0.034  $\chi^2/\text{NDF}$ :1113613.5/11

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

Left In: 142.261+/-0.034  $\chi^2/\text{NDF}$ :566757.3/10

Left: 140.947+/-0.024  $\chi^2/\text{NDF}$ : 1683310.6/22

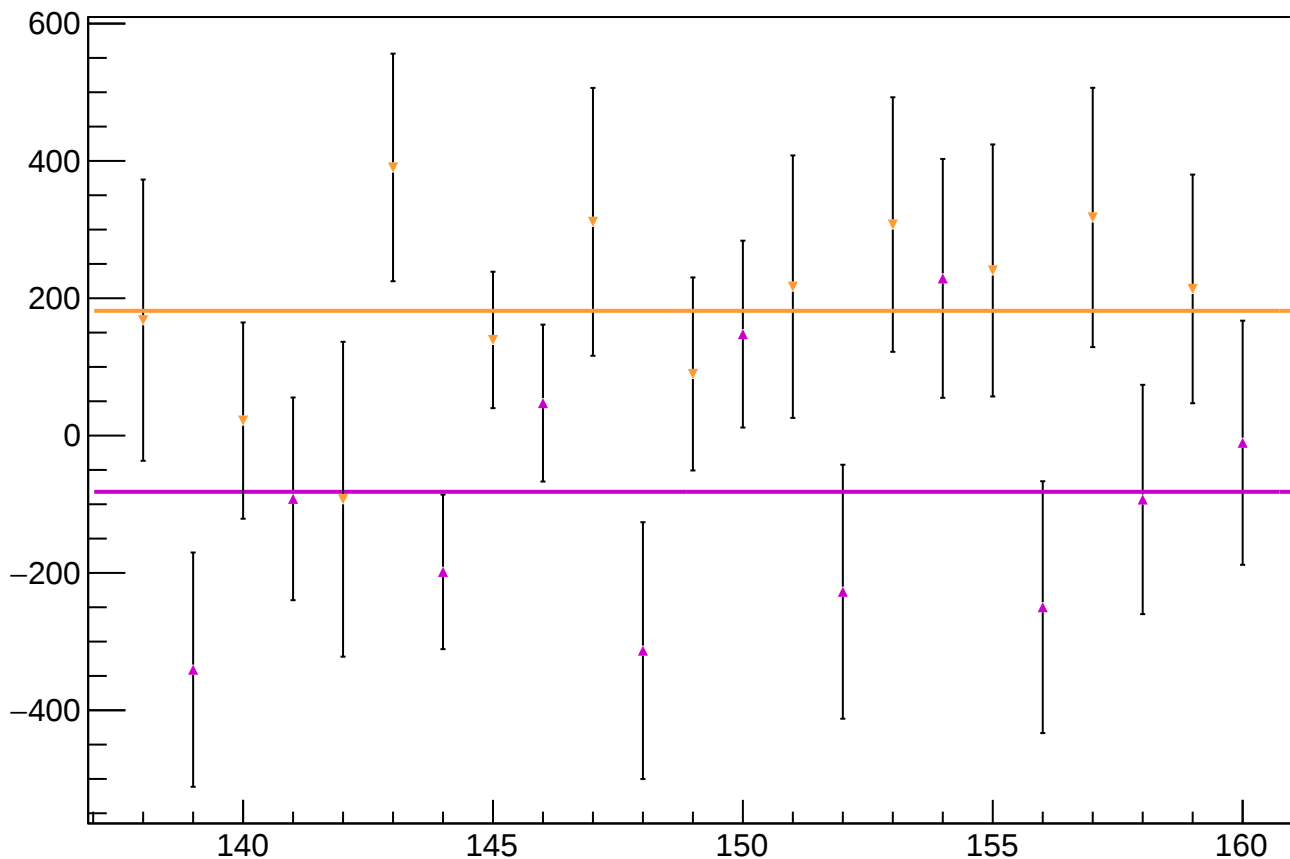
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 142.261+/-0.034  $\chi^2/\text{NDF}$ :566757.3/10

Out: 139.649+/-0.034  $\chi^2/\text{NDF}$ :1113613.5/11

All: 140.947+/-0.024  $\chi^2/\text{NDF}$ : 1683310.6/22

asym\_sam\_37\_26\_dd\_mean vs Slug, Sign Corrected



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

Left Out: 181.726+/-46.787  $\chi^2/\text{NDF}$ : 6.5/11

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

Left In: -81.872+/-45.740  $\chi^2/\text{NDF}$ : 13.9/10

Left: 46.946+/-32.707  $\chi^2/\text{NDF}$ : 36.6/22

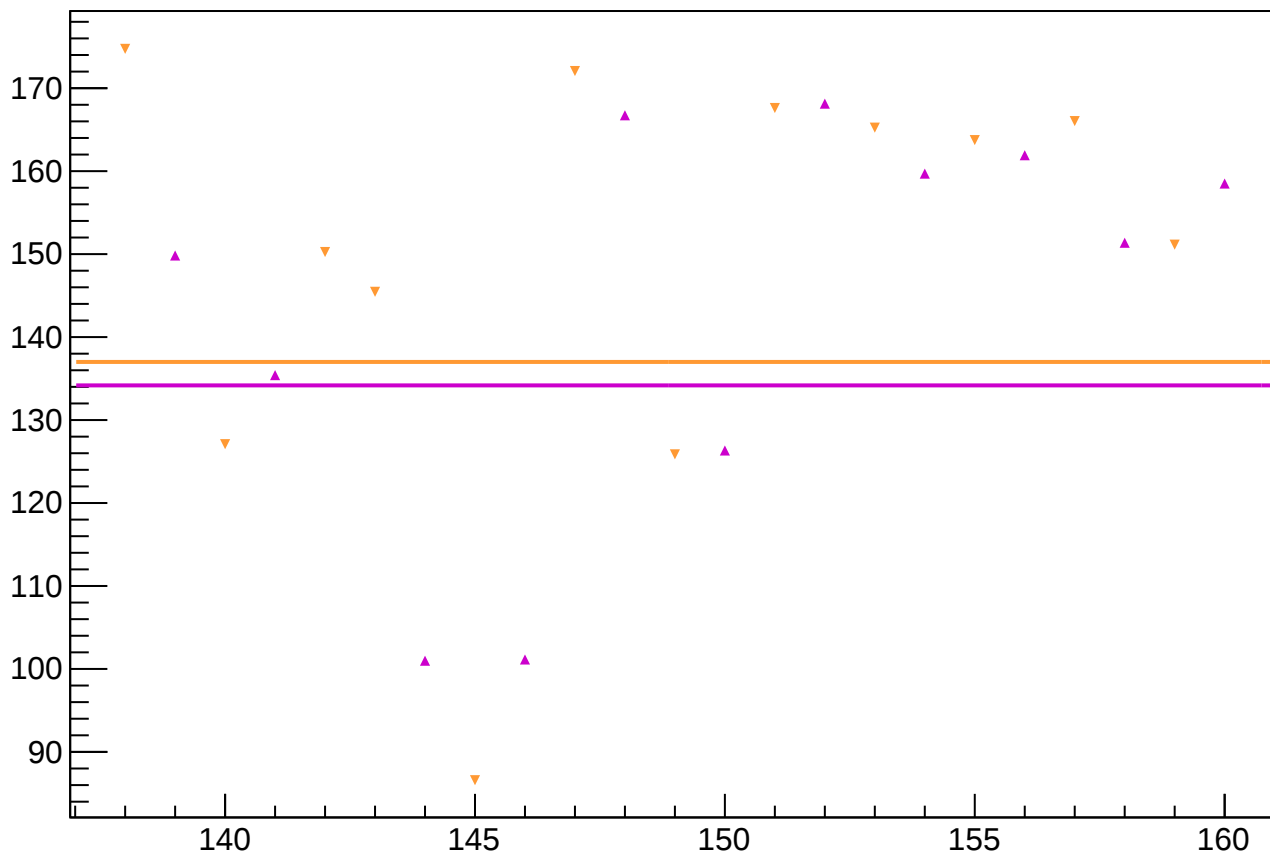
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -81.872+/-45.740  $\chi^2/\text{NDF}$ : 13.9/10

Out: 181.726+/-46.787  $\chi^2/\text{NDF}$ : 6.5/11

All: 46.946+/-32.707  $\chi^2/\text{NDF}$ : 36.6/22

asym\_sam\_37\_26\_dd\_rms vs Slug, Sign Corrected



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

Left Out: 137.004+/-0.033  $\chi^2/\text{NDF}$ : 883777.5/11

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

Left In: 134.177+/-0.032  $\chi^2/\text{NDF}$ : 640299.1/10

Left: 135.559+/-0.023  $\chi^2/\text{NDF}$ : 1527810.7/22

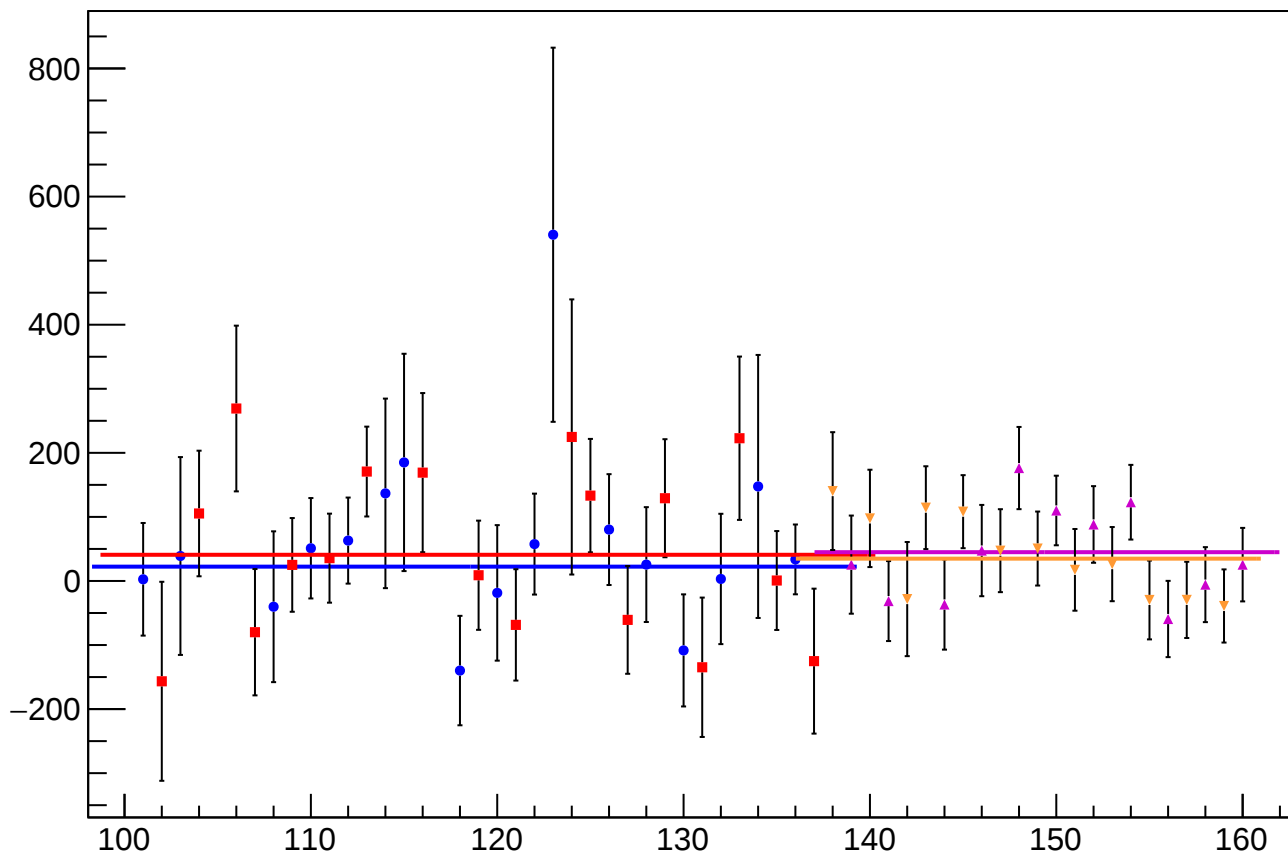
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 134.177+/-0.032  $\chi^2/\text{NDF}$ : 640299.1/10

Out: 137.004+/-0.033  $\chi^2/\text{NDF}$ : 883777.5/11

All: 135.559+/-0.023  $\chi^2/\text{NDF}$ : 1527810.7/22

dit\_asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 22.361 $\pm$ 22.625  $\chi^2$ /NDF: 12.6/16

Left Out: 34.834 $\pm$ 18.568  $\chi^2$ /NDF: 9.8/11

Right Out: 40.867 $\pm$ 22.136  $\chi^2$ /NDF: 24.2/17

Left In: 44.938 $\pm$ 18.702  $\chi^2$ /NDF: 14.8/10

Left: 39.850 $\pm$ 13.177  $\chi^2$ /NDF: 24.7/22

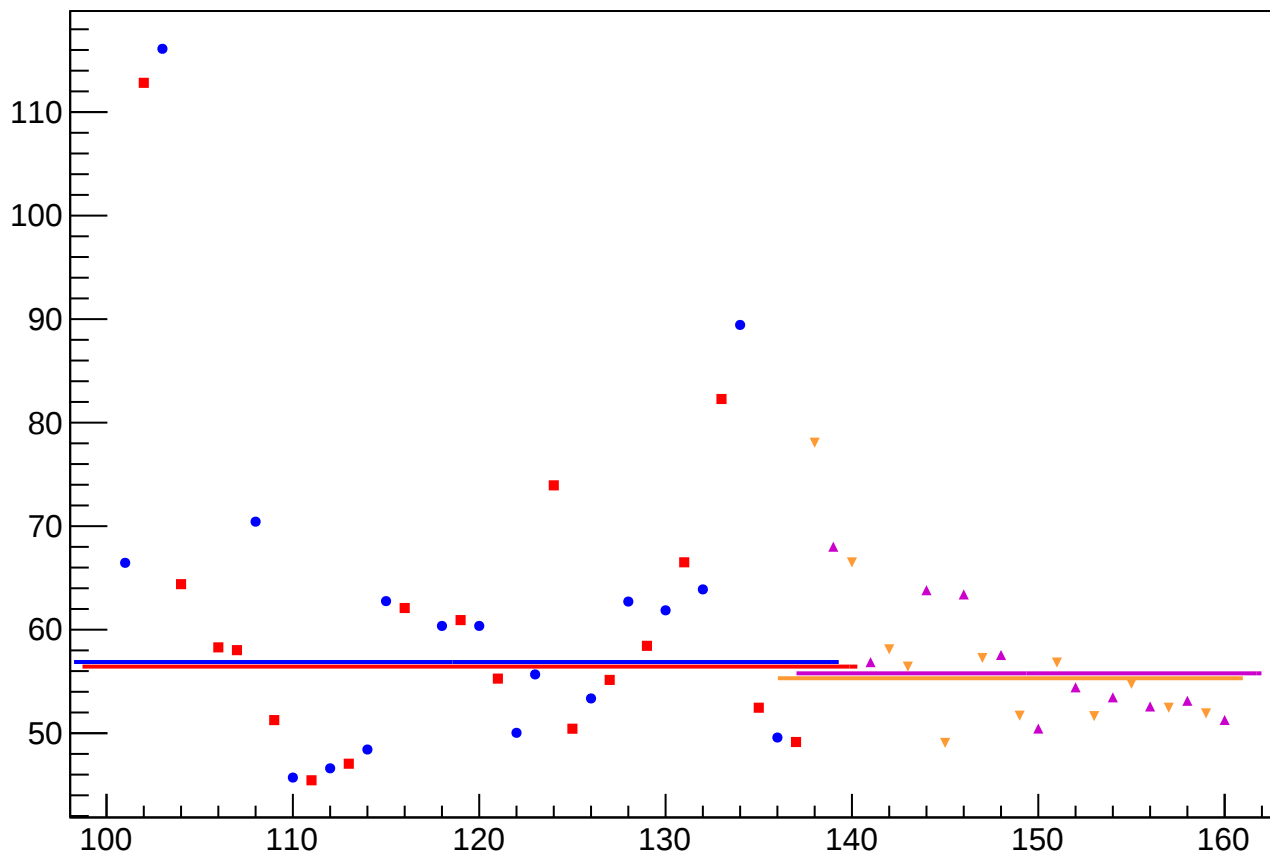
Right: 31.816 $\pm$ 15.823  $\chi^2$ /NDF: 37.1/34

In: 35.774 $\pm$ 14.415  $\chi^2$ /NDF: 28.0/27

Out: 37.326 $\pm$ 14.226  $\chi^2$ /NDF: 34.1/29

All: 36.560 $\pm$ 10.125  $\chi^2$ /NDF: 62.0/57

dit\_asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 56.879 $\pm$ 0.016  $\chi^2$ /NDF: 575487.1/16

Left Out: 55.310 $\pm$ 0.013  $\chi^2$ /NDF: 223000.3/11

Right Out: 56.434 $\pm$ 0.016  $\chi^2$ /NDF: 520456.9/17

Left In: 55.783 $\pm$ 0.013  $\chi^2$ /NDF: 147674.8/10

Left: 55.545 $\pm$ 0.009  $\chi^2$ /NDF: 371320.8/22

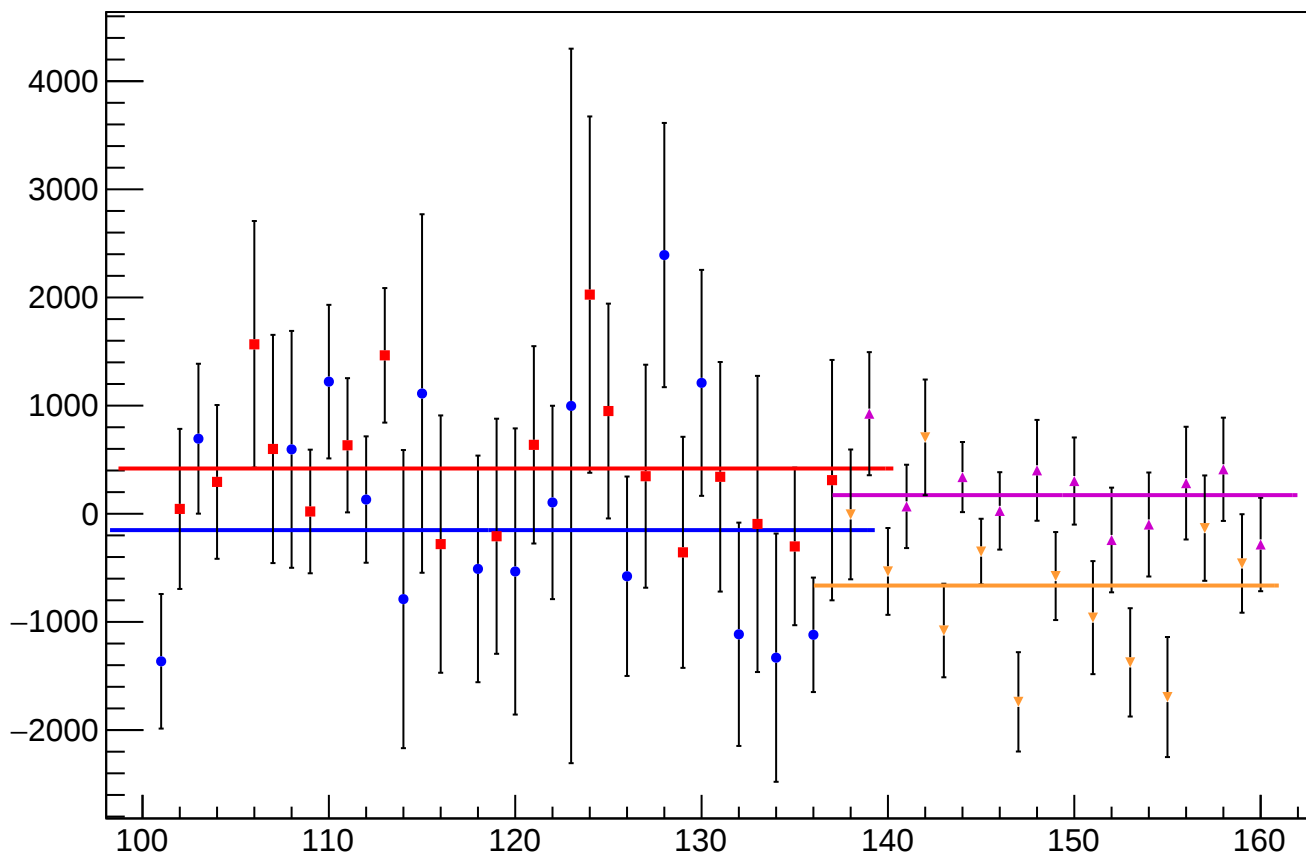
Right: 56.652 $\pm$ 0.011  $\chi^2$ /NDF: 1096338.8/34

In: 56.228 $\pm$ 0.010  $\chi^2$ /NDF: 725948.1/27

Out: 55.774 $\pm$ 0.010  $\chi^2$ /NDF: 746486.3/29

All: 55.998 $\pm$ 0.007  $\chi^2$ /NDF: 1473439.0/57

asym\_sam\_1357\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -151.194+/-212.448  $\chi^2/\text{NDF}$ : 22.4/16

Left Out: -663.555+/-129.754  $\chi^2/\text{NDF}$ : 22.6/11

Right Out: 418.554+/-205.061  $\chi^2/\text{NDF}$ : 8.4/17

Left In: 172.339+/-129.188  $\chi^2/\text{NDF}$ : 5.1/10

Left: -243.779+/-91.549  $\chi^2/\text{NDF}$ : 48.5/22

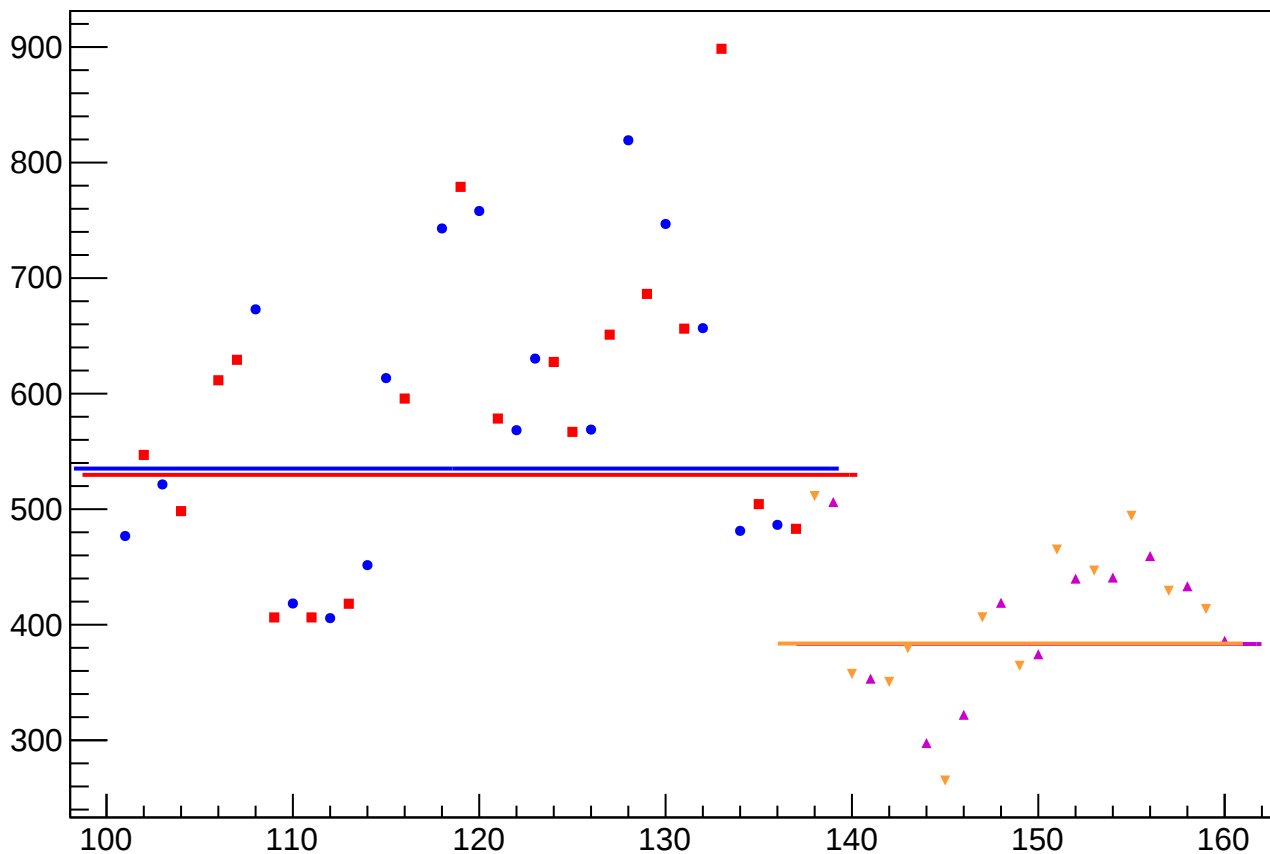
Right: 143.757+/-147.542  $\chi^2/\text{NDF}$ : 34.6/34

In: 85.000+/-110.382  $\chi^2/\text{NDF}$ : 29.2/27

Out: -354.169+/-109.647  $\chi^2/\text{NDF}$ : 50.9/29

All: -136.050+/-77.791  $\chi^2/\text{NDF}$ : 88.0/57

asym\_sam\_1357\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 535.137 $\pm$ 0.150  $\chi^2$ /NDF: 596084.8/16

Left Out: 383.722 $\pm$ 0.092  $\chi^2$ /NDF: 607653.9/11

Right Out: 529.720 $\pm$ 0.145  $\chi^2$ /NDF: 646725.7/17

Left In: 383.303 $\pm$ 0.091  $\chi^2$ /NDF: 437031.0/10

Left: 383.512 $\pm$ 0.065  $\chi^2$ /NDF: 1044695.4/22

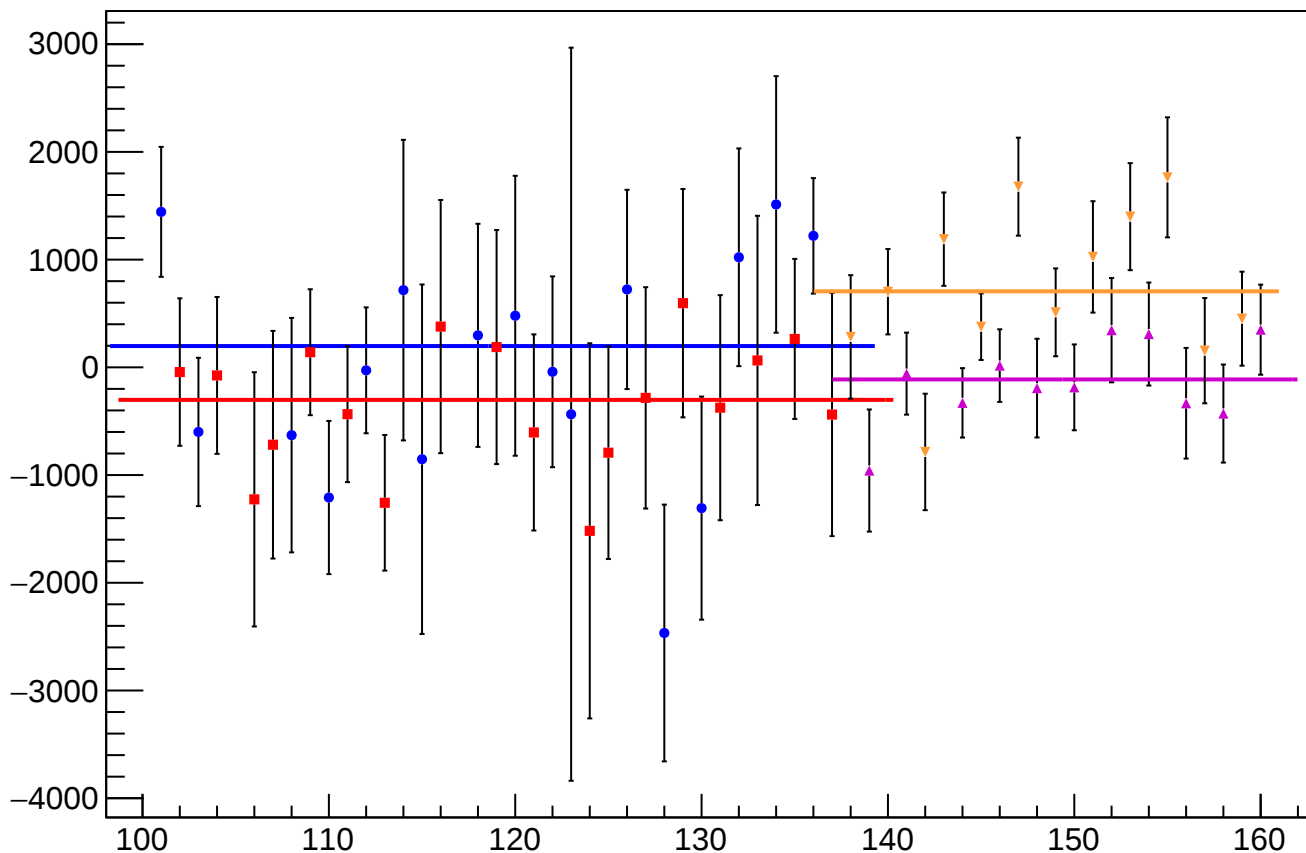
Right: 532.333 $\pm$ 0.104  $\chi^2$ /NDF: 1243483.8/34

In: 424.291 $\pm$ 0.078  $\chi^2$ /NDF: 1778904.2/27

Out: 425.464 $\pm$ 0.078  $\chi^2$ /NDF: 1978325.9/29

All: 424.882 $\pm$ 0.055  $\chi^2$ /NDF: 3757343.8/57

asym\_sam\_1357\_avg\_mean vs Slug, Sign Corrected



Right In: 197.561 $\pm$ 211.480  $\chi^2$ /NDF: 23.9/16

Left Out: 705.738 $\pm$ 129.145  $\chi^2$ /NDF:22.9/11

Right Out: -301.856 $\pm$ 205.700  $\chi^2$ /NDF: 6.7/17

Left In: -112.391 $\pm$ 126.502  $\chi^2$ /NDF:6.5/10

Left: 288.214 $\pm$ 90.370  $\chi^2$ /NDF: 49.8/22

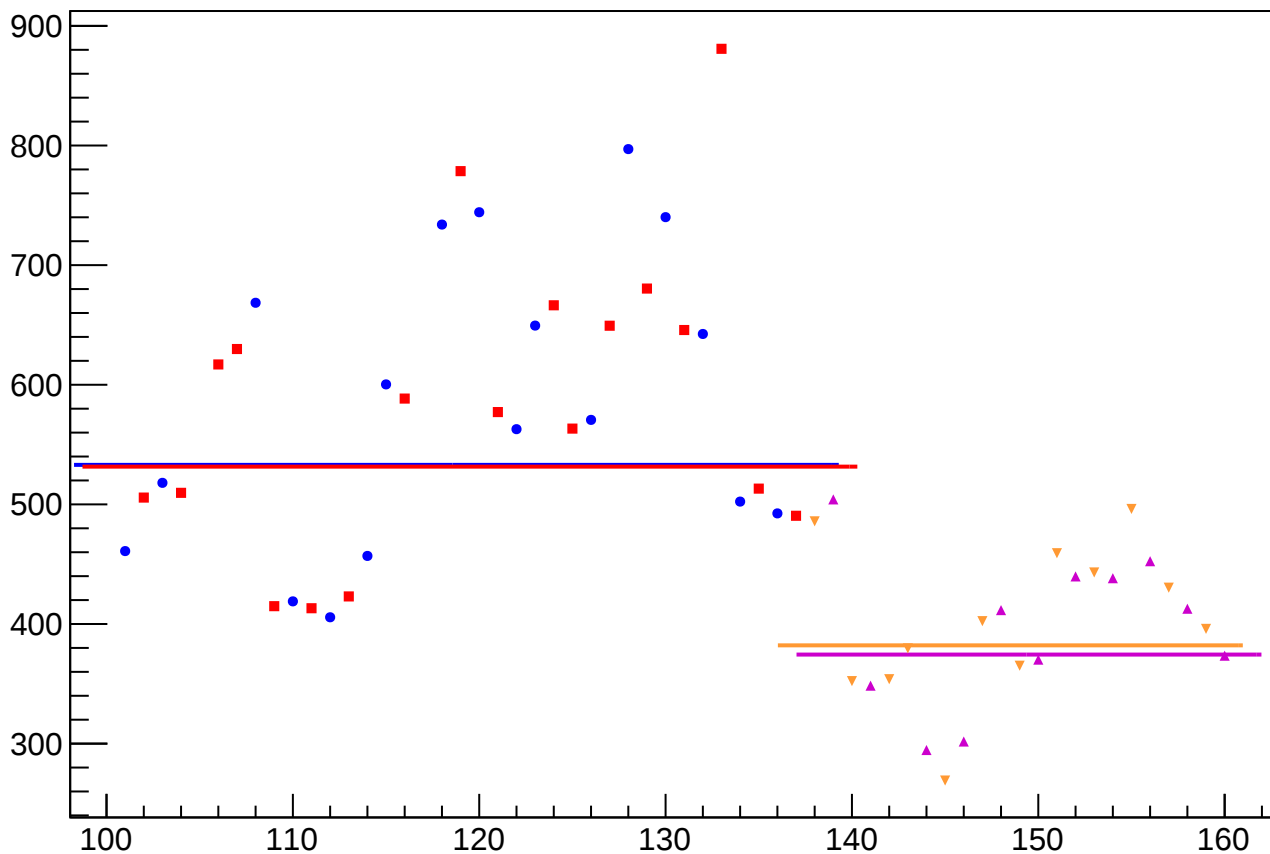
Right: -59.066 $\pm$ 147.453  $\chi^2$ /NDF: 33.5/34

In: -30.713 $\pm$ 108.562  $\chi^2$ /NDF:32.0/27

Out: 420.861 $\pm$ 109.375  $\chi^2$ /NDF:46.8/29

All: 193.388 $\pm$ 77.051  $\chi^2$ /NDF: 87.4/57

asym\_sam\_1357\_avg\_rms vs Slug, Sign Corrected



Right In: 533.031 $\pm$ 0.150  $\chi^2$ /NDF: 566851.1/16

Left Out: 382.158 $\pm$ 0.091  $\chi^2$ /NDF: 537716.4/11

Right Out: 531.559 $\pm$ 0.145  $\chi^2$ /NDF: 597920.9/17

Left In: 374.446 $\pm$ 0.089  $\chi^2$ /NDF: 475593.7/10

Left: 378.222 $\pm$ 0.064  $\chi^2$ /NDF: 1016950.6/22

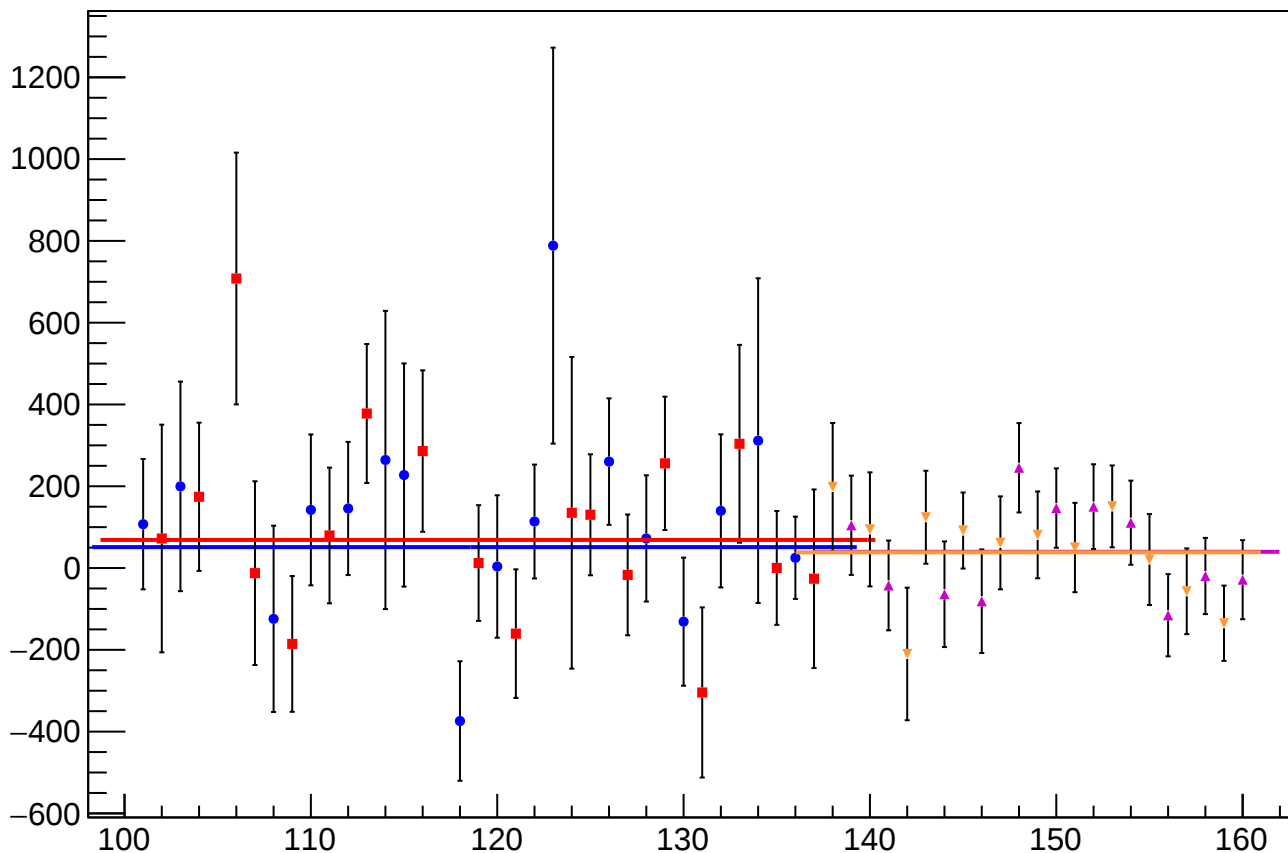
Right: 532.275 $\pm$ 0.104  $\chi^2$ /NDF: 1164821.8/34

In: 416.236 $\pm$ 0.077  $\chi^2$ /NDF: 1870732.2/27

Out: 424.399 $\pm$ 0.077  $\chi^2$ /NDF: 1892382.9/29

All: 420.287 $\pm$ 0.054  $\chi^2$ /NDF: 3768725.8/57

dit\_asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 51.166 $\pm$ 42.416  $\chi^2$ /NDF: 17.4/16

Left Out: 38.428 $\pm$ 32.226  $\chi^2$ /NDF:10.3/11

Right Out: 68.779 $\pm$ 42.803  $\chi^2$ /NDF: 20.4/17

Left In: 39.684 $\pm$ 32.077  $\chi^2$ /NDF:12.0/10

Left: 39.059 $\pm$ 22.734  $\chi^2$ /NDF: 22.4/22

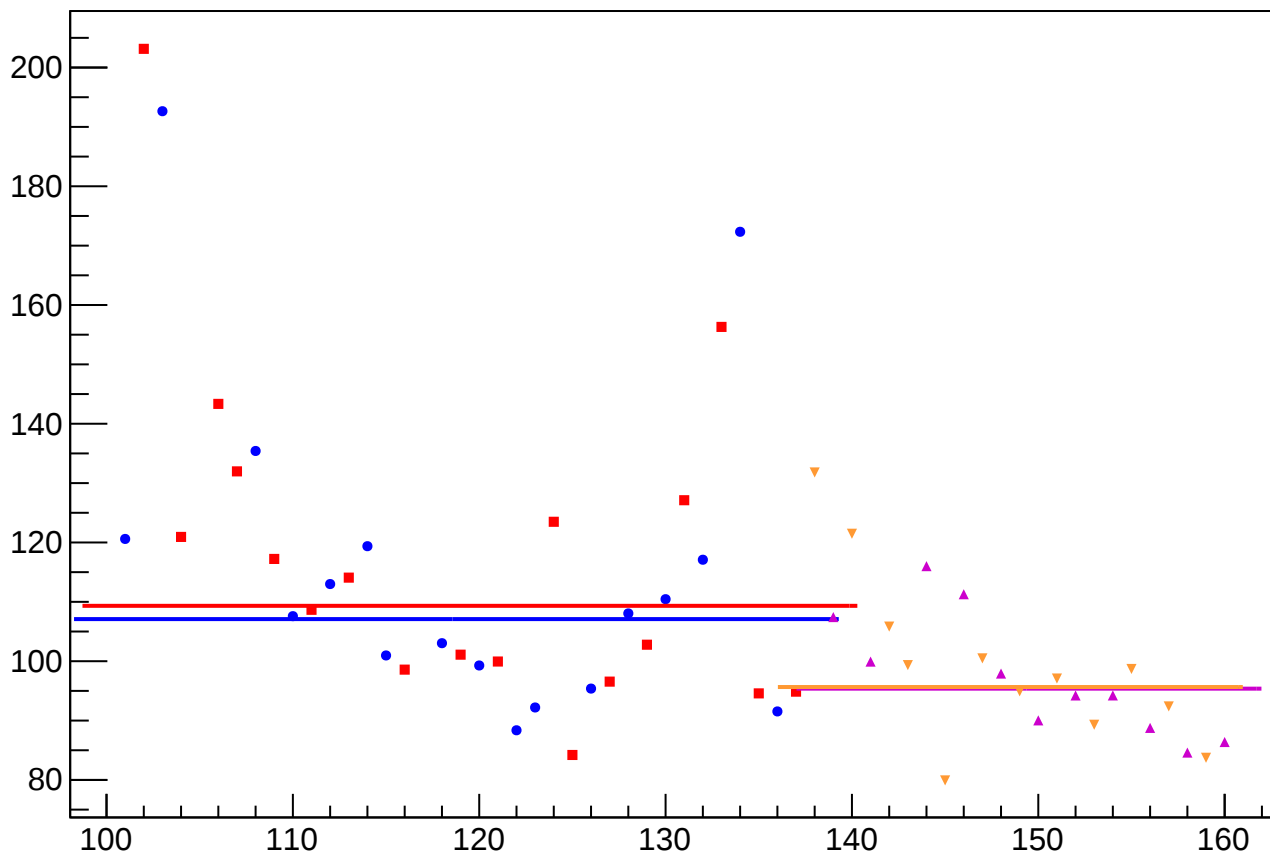
Right: 59.892 $\pm$ 30.129  $\chi^2$ /NDF: 37.8/34

In: 43.861 $\pm$ 25.585  $\chi^2$ /NDF:29.5/27

Out: 49.408 $\pm$ 25.745  $\chi^2$ /NDF:31.0/29

All: 46.617 $\pm$ 18.148  $\chi^2$ /NDF: 60.5/57

dit\_asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 107.094 $\pm$ 0.030  $\chi^2$ /NDF: 437755.4/16

Left Out: 95.651 $\pm$ 0.023  $\chi^2$ /NDF: 291615.7/11

Right Out: 109.329 $\pm$ 0.030  $\chi^2$ /NDF: 506023.6/17

Left In: 95.377 $\pm$ 0.023  $\chi^2$ /NDF: 166037.9/10

Left: 95.513 $\pm$ 0.016  $\chi^2$ /NDF: 457726.4/22

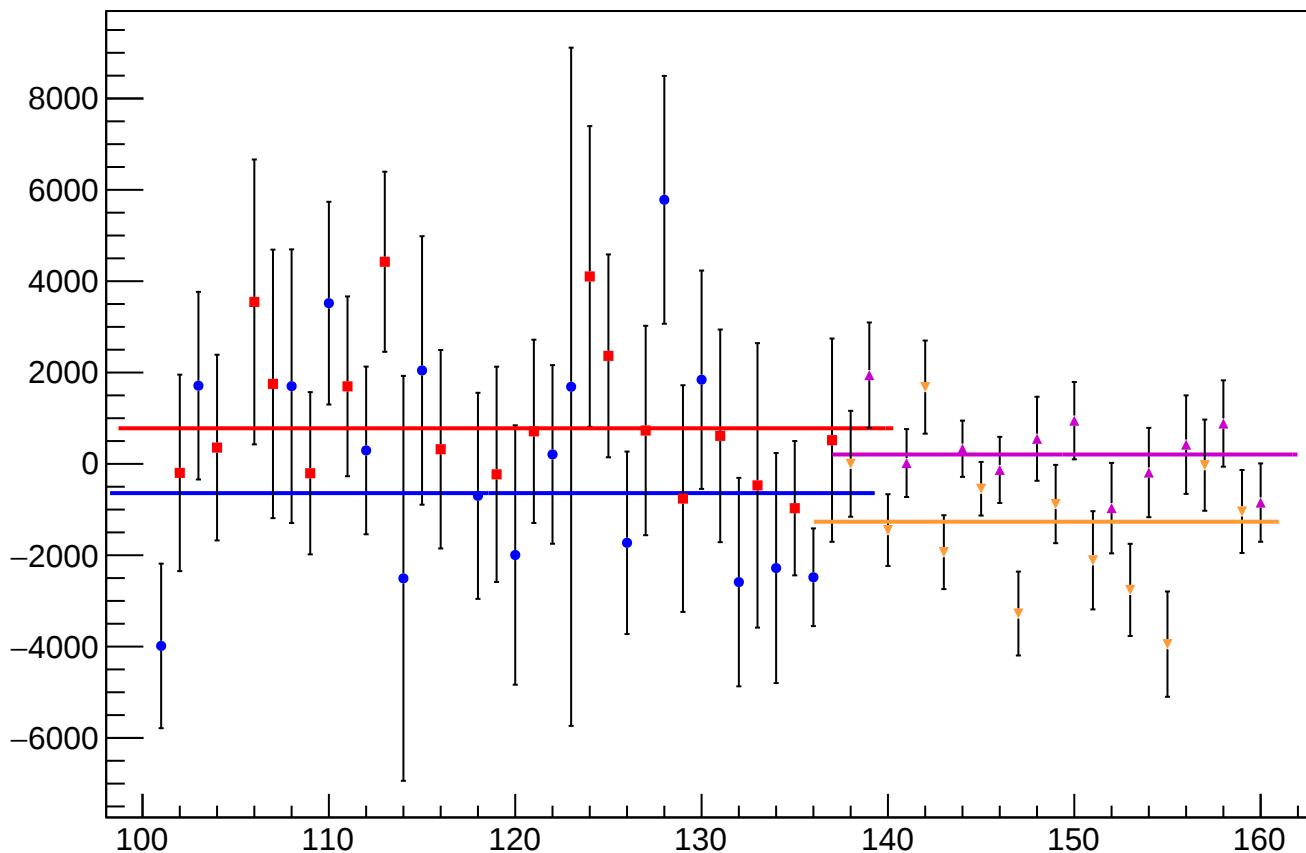
Right: 108.201 $\pm$ 0.021  $\chi^2$ /NDF: 946531.4/34

In: 99.640 $\pm$ 0.018  $\chi^2$ /NDF: 700879.6/27

Out: 100.599 $\pm$ 0.018  $\chi^2$ /NDF: 927988.3/29

All: 100.117 $\pm$ 0.013  $\chi^2$ /NDF: 1630265.4/57

asym\_sam\_2468\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -639.847 $\pm$ 519.248  $\chi^2$ /NDF: 21.8/16

Left Out: -1265.925 $\pm$ 257.185  $\chi^2$ /NDF:26.6/11

Right Out: 779.450 $\pm$ 516.450  $\chi^2$ /NDF: 8.8/17

Left In: 205.943 $\pm$ 257.475  $\chi^2$ /NDF:7.1/10

Left: -530.821 $\pm$ 181.960  $\chi^2$ /NDF: 50.1/22

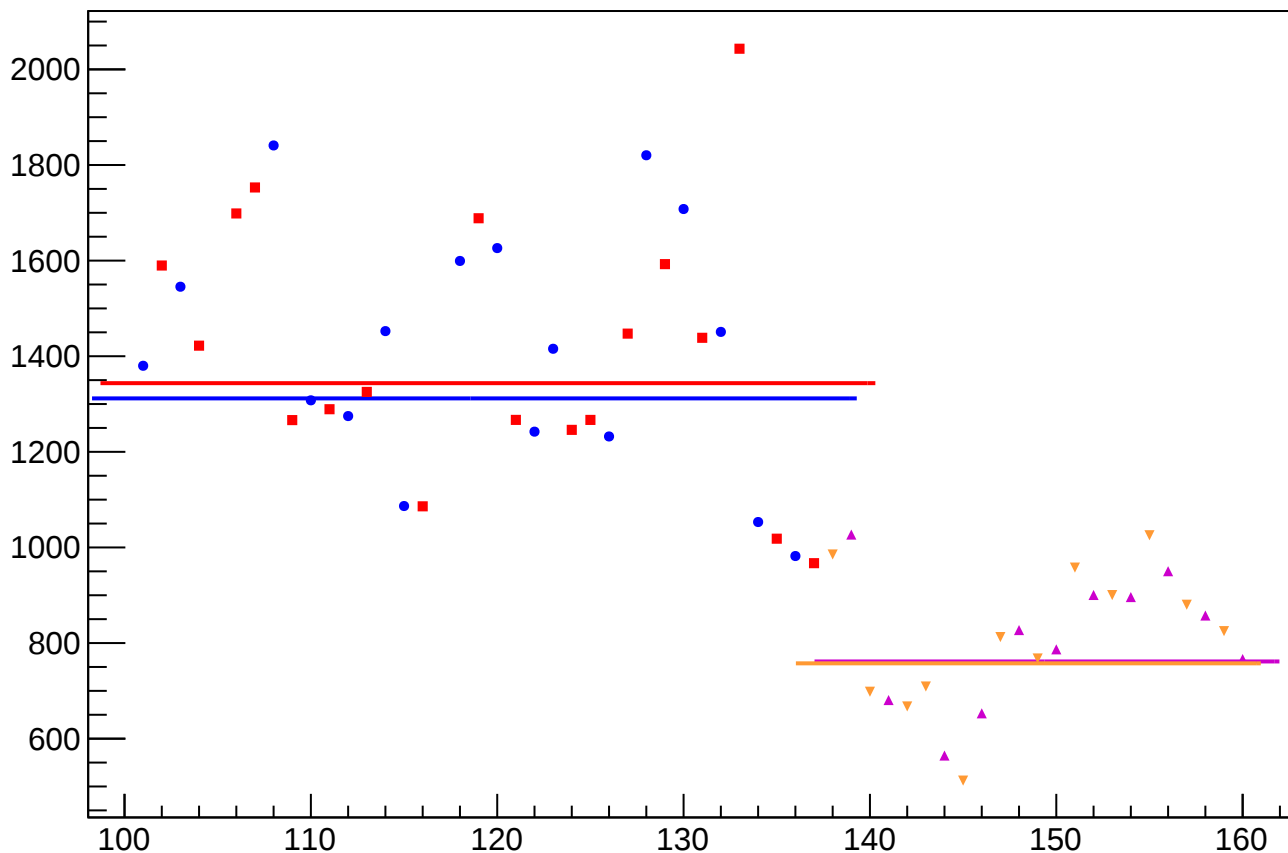
Right: 73.635 $\pm$ 366.171  $\chi^2$ /NDF: 34.4/34

In: 39.023 $\pm$ 230.673  $\chi^2$ /NDF:31.0/27

Out: -859.486 $\pm$ 230.218  $\chi^2$ /NDF:48.0/29

All: -411.118 $\pm$ 162.950  $\chi^2$ /NDF: 86.6/57

asym\_sam\_2468\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 1311.795+/-0.367  $\chi^2/\text{NDF}$ : 512676.0/16

Left Out: 757.563+/-0.182  $\chi^2/\text{NDF}$ : 726614.4/11

Right Out: 1343.659+/-0.365  $\chi^2/\text{NDF}$ : 461009.9/17

Left In: 761.520+/-0.182  $\chi^2/\text{NDF}$ : 550131.3/10

Left: 759.539+/-0.129  $\chi^2/\text{NDF}$ : 1276982.2/22

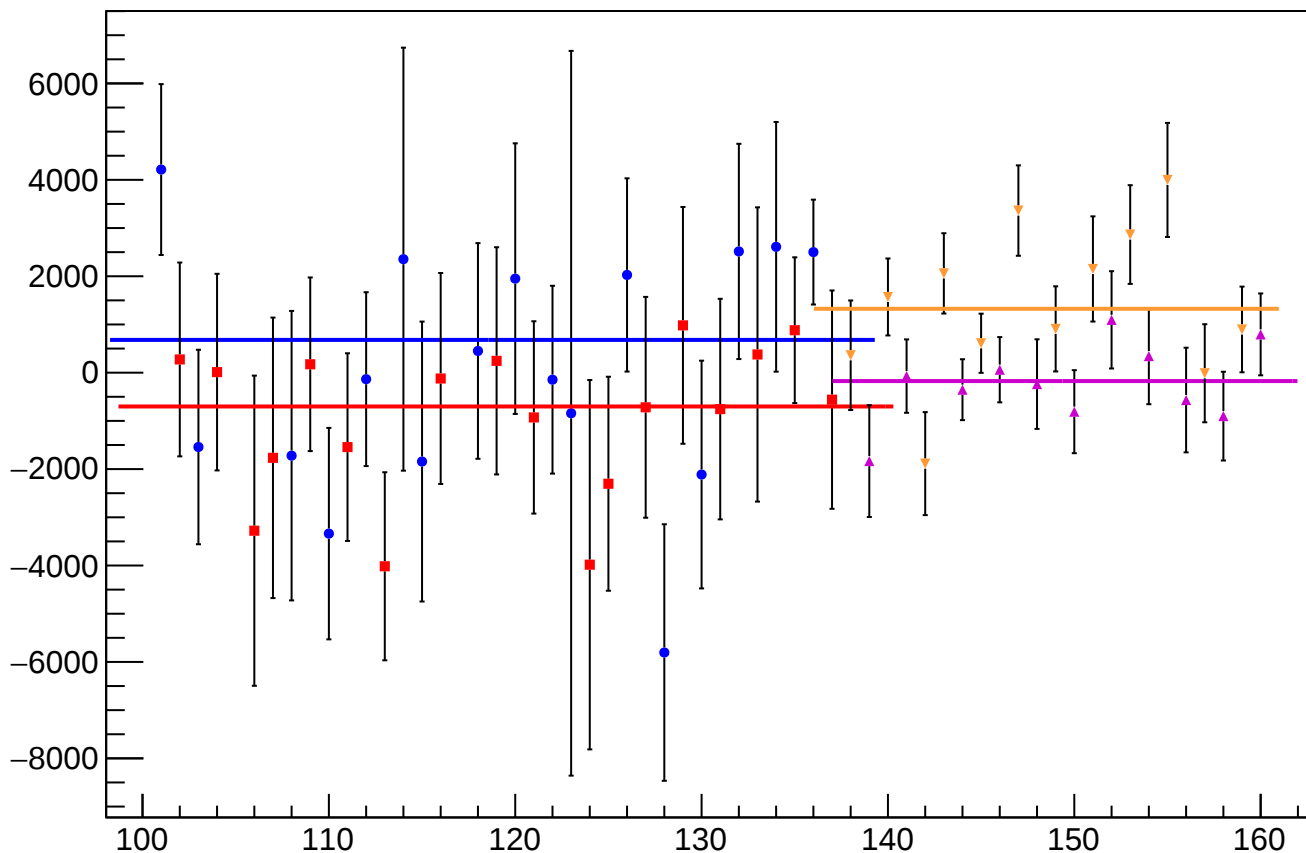
Right: 1327.813+/-0.259  $\chi^2/\text{NDF}$ : 977472.0/34

In: 870.119+/-0.163  $\chi^2/\text{NDF}$ : 2865677.0/27

Out: 874.027+/-0.163  $\chi^2/\text{NDF}$ : 3251573.0/29

All: 872.077+/-0.115  $\chi^2/\text{NDF}$ : 6117537.6/57

asym\_sam\_2468\_avg\_mean vs Slug, Sign Corrected



Right In: 679.925+/-517.508  $\chi^2/\text{NDF}$ : 22.6/16

Left Out: 1325.243+/-262.788  $\chi^2/\text{NDF}$ :26.8/11

Right Out: -700.930+/-517.319  $\chi^2/\text{NDF}$ : 7.6/17

Left In: -174.121+/-257.626  $\chi^2/\text{NDF}$ :6.7/10

Left: 560.692+/-183.967  $\chi^2/\text{NDF}$ : 50.2/22

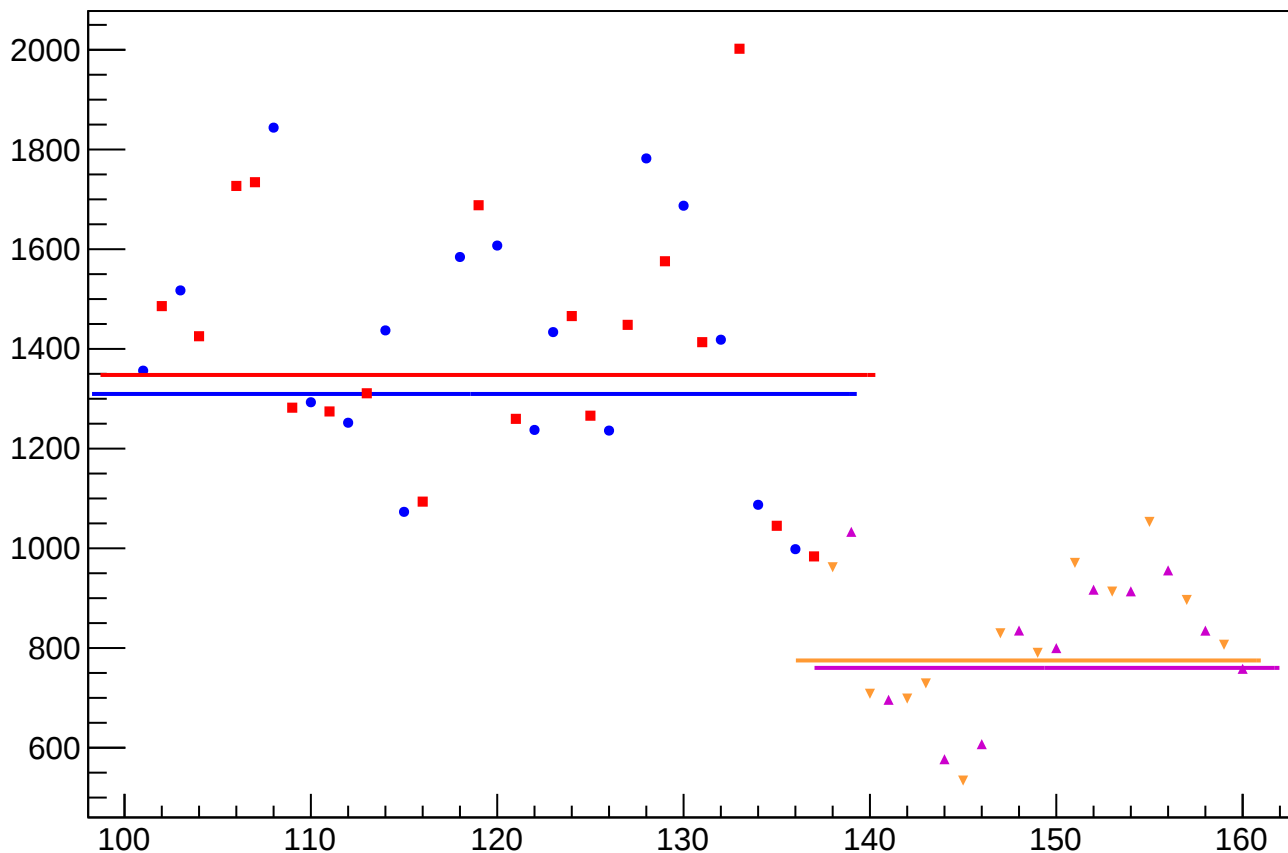
Right: -10.753+/-365.867  $\chi^2/\text{NDF}$ : 33.8/34

In: -4.502+/-230.629  $\chi^2/\text{NDF}$ :31.5/27

Out: 909.645+/-234.292  $\chi^2/\text{NDF}$ :46.7/29

All: 445.369+/-164.359  $\chi^2/\text{NDF}$ : 85.9/57

# asym\_sam\_2468\_avg\_rms vs Slug, Sign Corrected



Right In: 1309.654+/-0.366  $\chi^2/\text{NDF}$ : 459314.8/16

Left Out: 775.039+/-0.186  $\chi^2/\text{NDF}$ : 642302.2/11

Right Out: 1347.768+/-0.366  $\chi^2/\text{NDF}$ : 405345.0/17

Left In: 760.145+/-0.182  $\chi^2/\text{NDF}$ : 586426.9/10

Left: 767.444+/-0.130  $\chi^2/\text{NDF}$ : 1232005.2/22

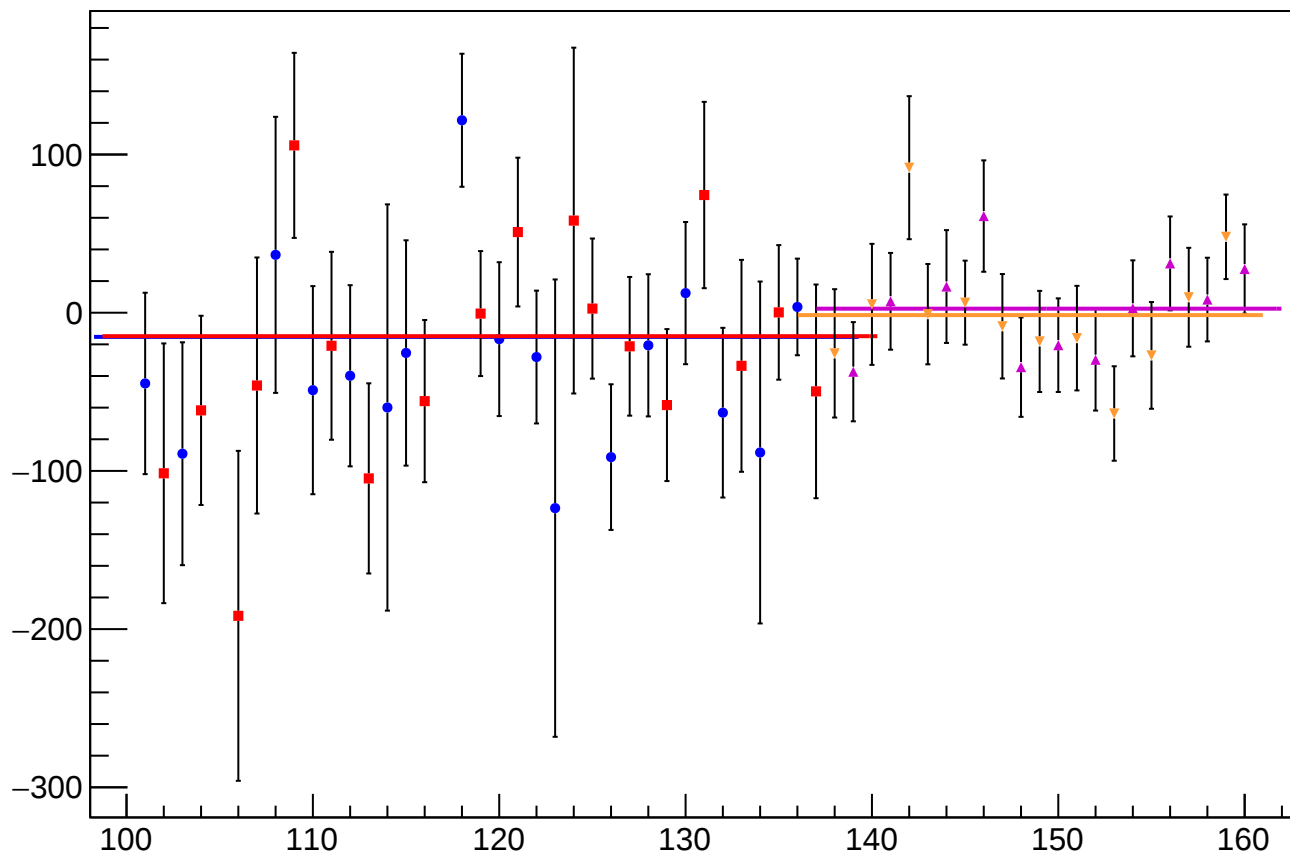
Right: 1328.718+/-0.259  $\chi^2/\text{NDF}$ : 870085.9/34

In: 869.280+/-0.163  $\chi^2/\text{NDF}$ : 2852884.7/27

Out: 892.514+/-0.166  $\chi^2/\text{NDF}$ : 2996212.3/29

All: 880.714+/-0.116  $\chi^2/\text{NDF}$ : 5859085.6/57

dit\_asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In:  $-15.281 \pm 12.907$   $\chi^2/\text{NDF}$ : 18.3/16

Left Out:  $-1.510 \pm 9.354$   $\chi^2/\text{NDF}$ : 13.7/11

Right Out:  $-14.839 \pm 13.097$   $\chi^2/\text{NDF}$ : 18.2/17

Left In:  $2.553 \pm 9.242$   $\chi^2/\text{NDF}$ : 9.3/10

Left:  $0.546 \pm 6.574$   $\chi^2/\text{NDF}$ : 23.1/22

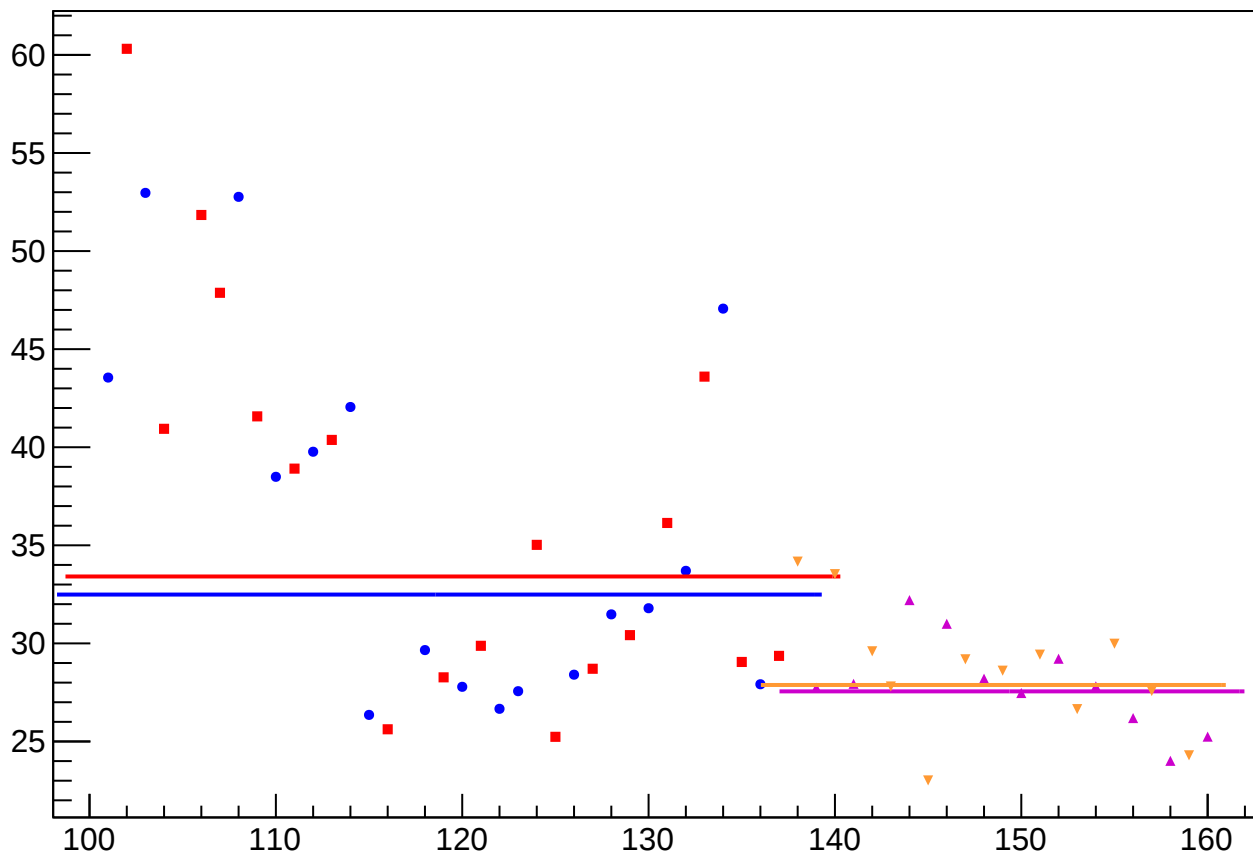
Right:  $-15.063 \pm 9.193$   $\chi^2/\text{NDF}$ : 36.5/34

In:  $-3.491 \pm 7.514$   $\chi^2/\text{NDF}$ : 28.9/27

Out:  $-6.012 \pm 7.612$   $\chi^2/\text{NDF}$ : 32.6/29

All:  $-4.735 \pm 5.348$   $\chi^2/\text{NDF}$ : 61.5/57

dit\_asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 32.489 $\pm$ 0.009  $\chi^2$ /NDF: 594480.9/16

Left Out: 27.880 $\pm$ 0.007  $\chi^2$ /NDF: 217718.4/11

Right Out: 33.411 $\pm$ 0.009  $\chi^2$ /NDF: 725189.8/17

Left In: 27.554 $\pm$ 0.007  $\chi^2$ /NDF: 113380.0/10

Left: 27.715 $\pm$ 0.005  $\chi^2$ /NDF: 332329.1/22

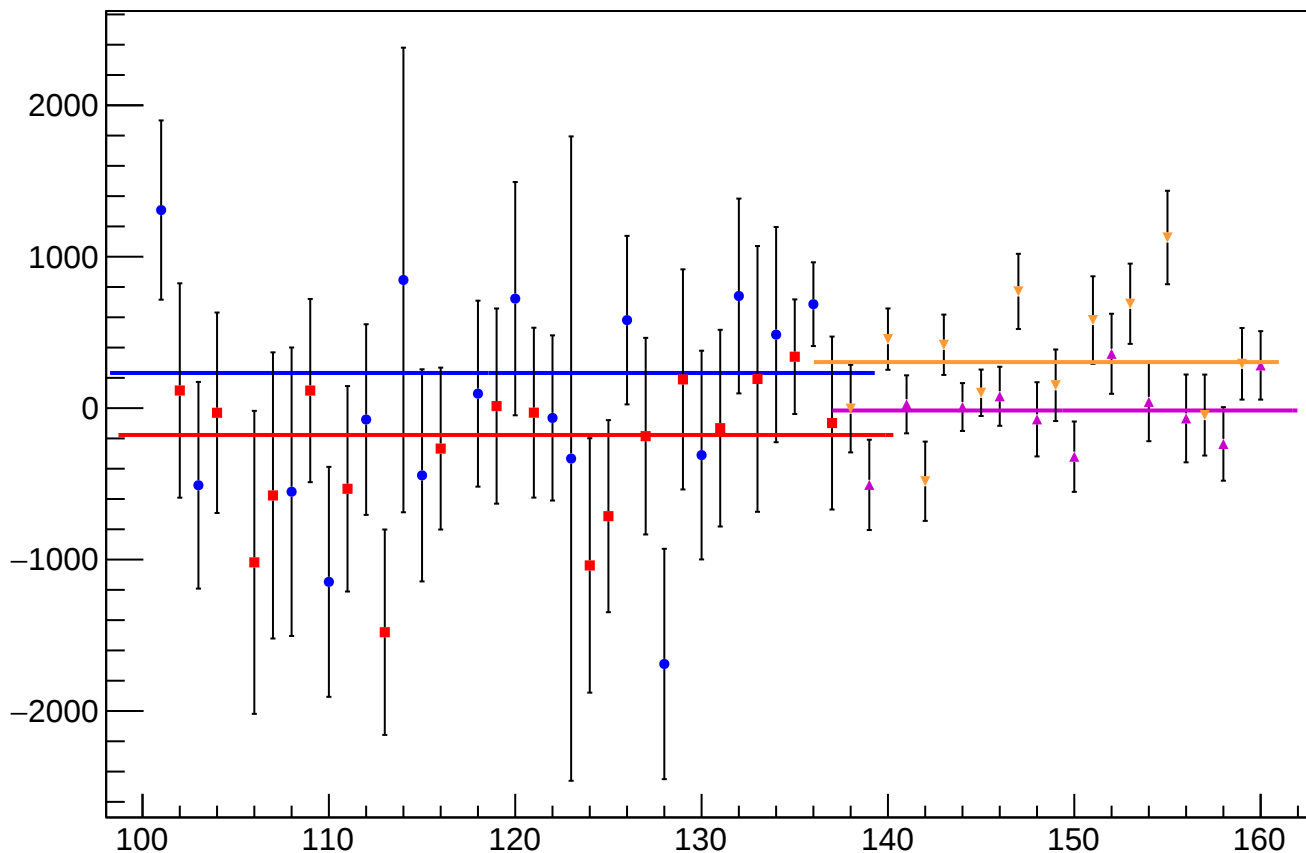
Right: 32.943 $\pm$ 0.007  $\chi^2$ /NDF: 1324698.1/34

In: 29.226 $\pm$ 0.005  $\chi^2$ /NDF: 901169.8/27

Out: 29.748 $\pm$ 0.005  $\chi^2$ /NDF: 1179114.1/29

All: 29.484 $\pm$ 0.004  $\chi^2$ /NDF: 2085043.3/57

asym\_sam\_1357\_2468\_dd\_correction\_mean vs Slug, Sign Corrected



Right In: 232.332 $\pm$ 148.607  $\chi^2$ /NDF: 21.5/16

Left Out: 304.081 $\pm$ 67.198  $\chi^2$ /NDF:28.6/11

Right Out: -177.151 $\pm$ 150.003  $\chi^2$ /NDF: 9.6/17

Left In: -15.459 $\pm$ 67.786  $\chi^2$ /NDF:9.4/10

Left: 145.704 $\pm$ 47.723  $\chi^2$ /NDF: 49.3/22

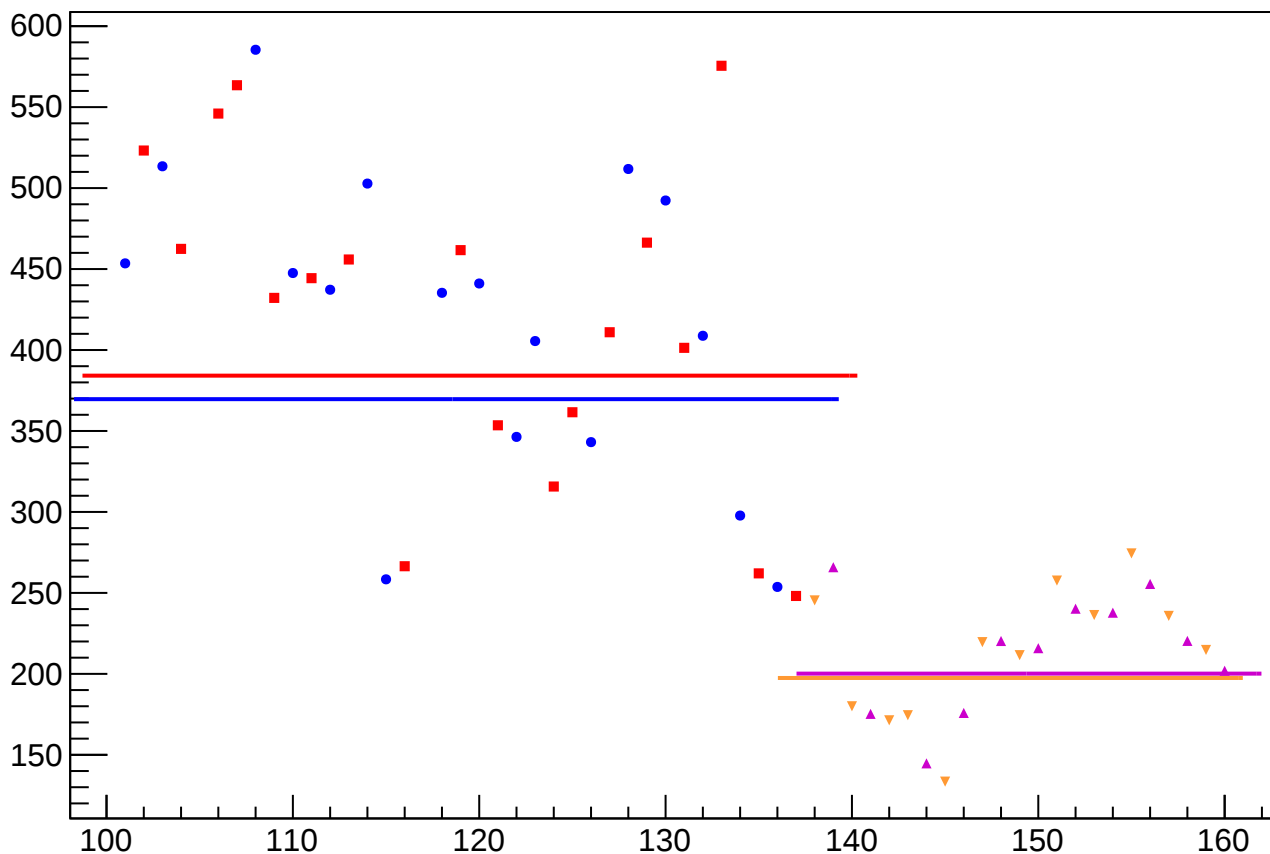
Right: 29.504 $\pm$ 105.571  $\chi^2$ /NDF: 34.8/34

In: 27.218 $\pm$ 61.673  $\chi^2$ /NDF:33.2/27

Out: 223.648 $\pm$ 61.325  $\chi^2$ /NDF:46.8/29

All: 125.988 $\pm$ 43.486  $\chi^2$ /NDF: 85.1/57

asym\_sam\_1357\_2468\_dd\_correction\_rms vs Slug, Sign Corrected



Right In: 369.650 $\pm$ 0.105  $\chi^2$ /NDF: 902775.2/16

Left Out: 197.463 $\pm$ 0.048  $\chi^2$ /NDF: 794310.0/11

Right Out: 384.171 $\pm$ 0.106  $\chi^2$ /NDF: 874993.4/17

Left In: 200.150 $\pm$ 0.048  $\chi^2$ /NDF: 605507.3/10

Left: 198.795 $\pm$ 0.034  $\chi^2$ /NDF: 1401402.5/22

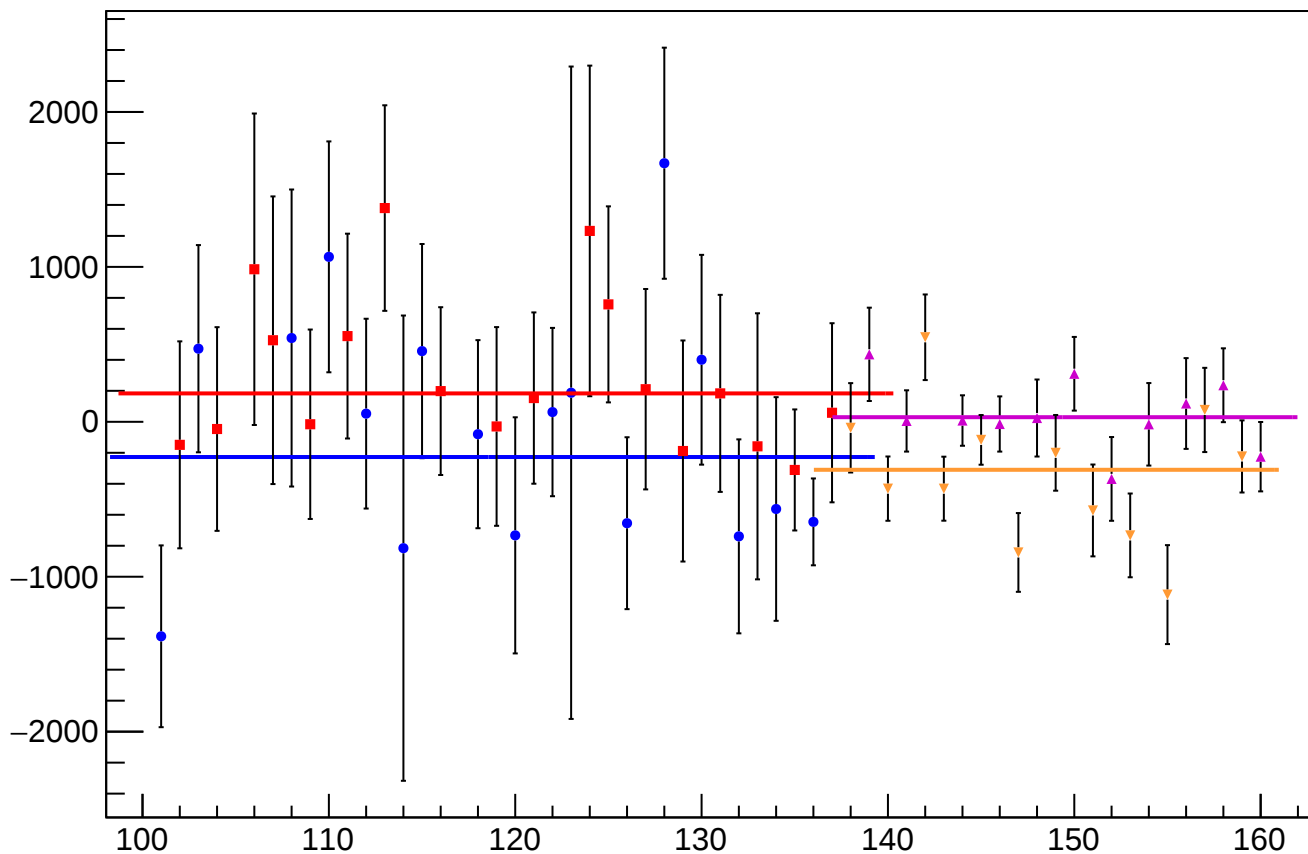
Right: 376.842 $\pm$ 0.075  $\chi^2$ /NDF: 1787228.1/34

In: 229.343 $\pm$ 0.044  $\chi^2$ /NDF: 3662039.3/27

Out: 228.669 $\pm$ 0.043  $\chi^2$ /NDF: 4249953.6/29

All: 229.004 $\pm$ 0.031  $\chi^2$ /NDF: 7912113.0/57

asym\_sam\_1357\_2468\_dd\_mean vs Slug, Sign Corrected



Right In:  $-227.279 \pm 147.923$   $\chi^2/\text{NDF}: 21.8/16$

Left Out:  $-309.711 \pm 69.046$   $\chi^2/\text{NDF}: 29.0/11$

Right Out:  $183.318 \pm 150.486$   $\chi^2/\text{NDF}: 8.8/17$

Left In:  $29.827 \pm 67.945$   $\chi^2/\text{NDF}: 7.6/10$

Left:  $-137.216 \pm 48.429$   $\chi^2/\text{NDF}: 48.9/22$

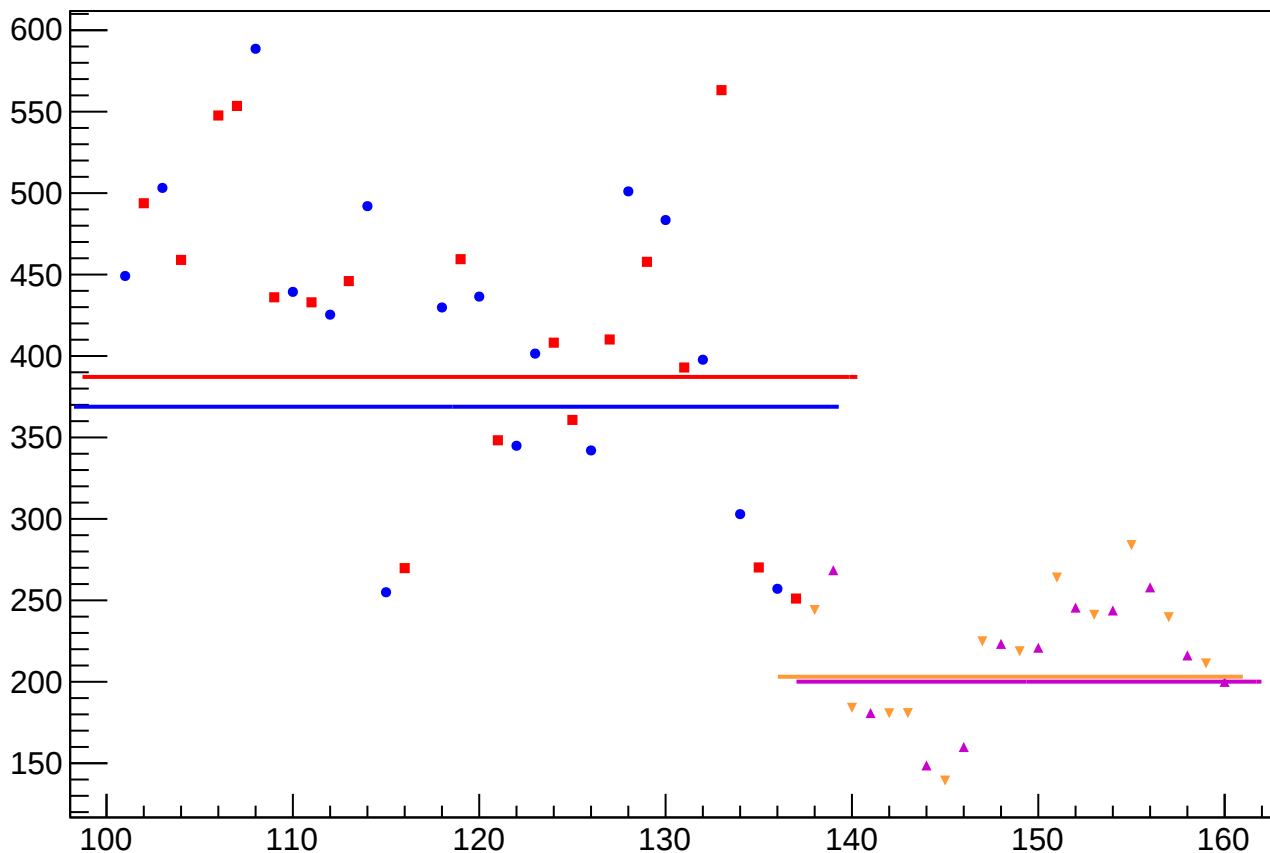
Right:  $-25.507 \pm 105.492$   $\chi^2/\text{NDF}: 34.4/34$

In:  $-14.968 \pm 61.743$   $\chi^2/\text{NDF}: 32.0/27$

Out:  $-223.972 \pm 62.755$   $\chi^2/\text{NDF}: 46.6/29$

All:  $-117.771 \pm 44.013$   $\chi^2/\text{NDF}: 84.2/57$

asym\_sam\_1357\_2468\_dd\_rms vs Slug, Sign Corrected



Right In: 368.864 $\pm$ 0.105  $\chi^2/\text{NDF}$ : 829732.0/16

Left Out: 203.102 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 723260.1/11

Right Out: 387.165 $\pm$ 0.106  $\chi^2/\text{NDF}$ : 758108.0/17

Left In: 200.082 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 653395.2/10

Left: 201.568 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 1378600.0/22

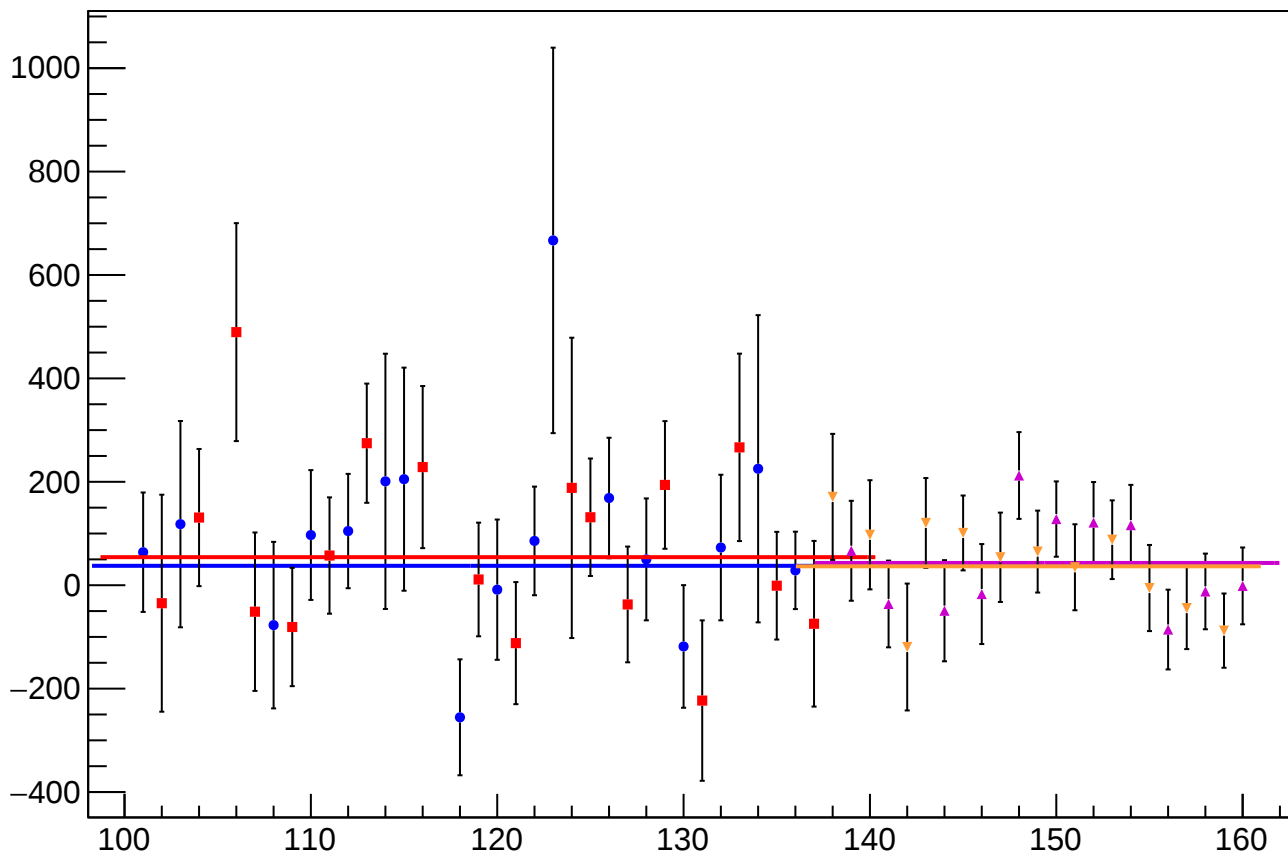
Right: 377.857 $\pm$ 0.075  $\chi^2/\text{NDF}$ : 1602884.1/34

In: 229.488 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 3633298.0/27

Out: 235.112 $\pm$ 0.044  $\chi^2/\text{NDF}$ : 3953075.9/29

All: 232.254 $\pm$ 0.031  $\chi^2/\text{NDF}$ : 7594535.1/57

dit\_asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 37.535 $\pm$ 31.460  $\chi^2$ /NDF: 15.8/16

Left Out: 36.581 $\pm$ 24.587  $\chi^2$ /NDF: 9.8/11

Right Out: 54.274 $\pm$ 31.489  $\chi^2$ /NDF: 21.8/17

Left In: 43.075 $\pm$ 24.580  $\chi^2$ /NDF: 13.2/10

Left: 39.829 $\pm$ 17.383  $\chi^2$ /NDF: 23.1/22

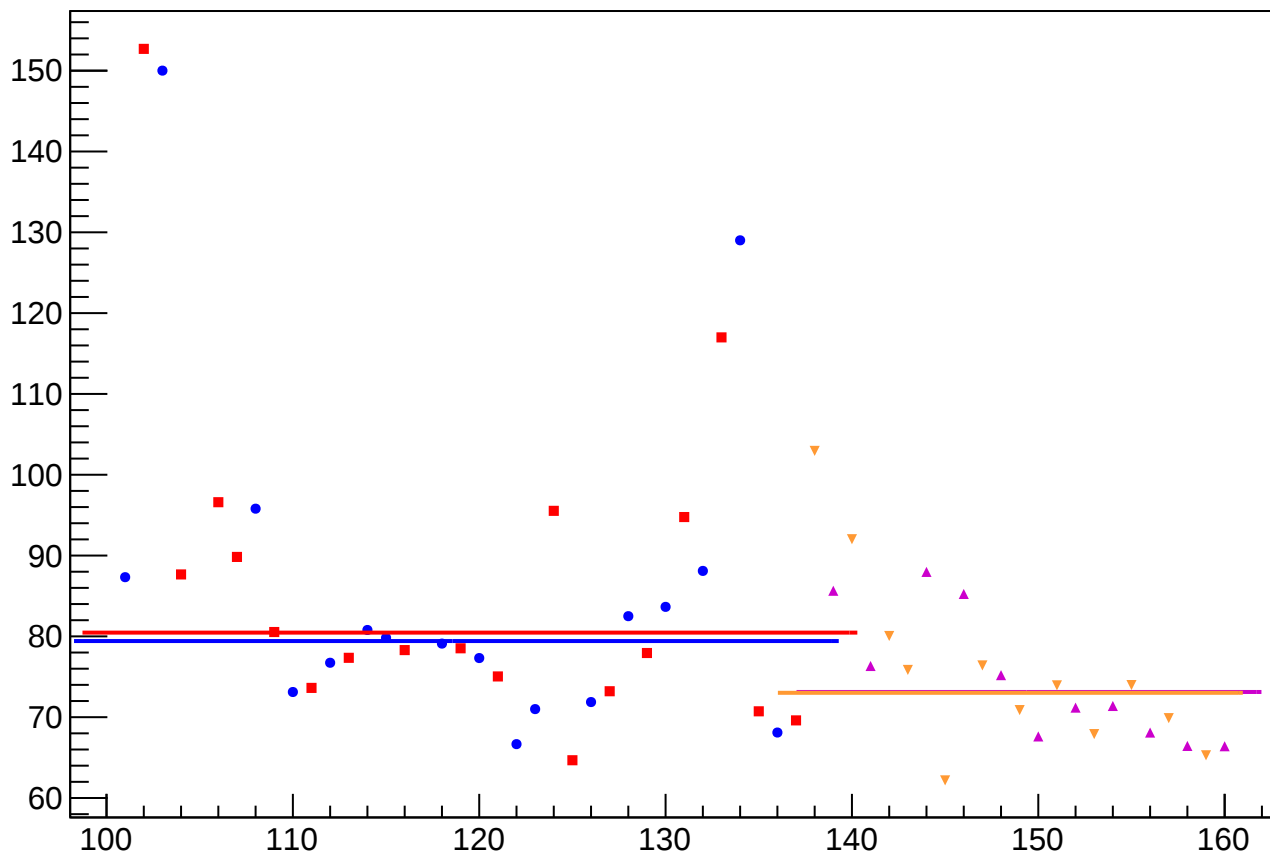
Right: 45.897 $\pm$ 22.256  $\chi^2$ /NDF: 37.8/34

In: 40.975 $\pm$ 19.369  $\chi^2$ /NDF: 29.1/27

Out: 43.282 $\pm$ 19.379  $\chi^2$ /NDF: 31.8/29

All: 42.128 $\pm$ 13.700  $\chi^2$ /NDF: 60.9/57

dit\_asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 79.421 $\pm$ 0.022  $\chi^2$ /NDF: 439047.1/16

Left Out: 73.017 $\pm$ 0.017  $\chi^2$ /NDF: 279328.7/11

Right Out: 80.465 $\pm$ 0.022  $\chi^2$ /NDF: 454376.0/17

Left In: 73.120 $\pm$ 0.017  $\chi^2$ /NDF: 170497.4/10

Left: 73.068 $\pm$ 0.012  $\chi^2$ /NDF: 449843.5/22

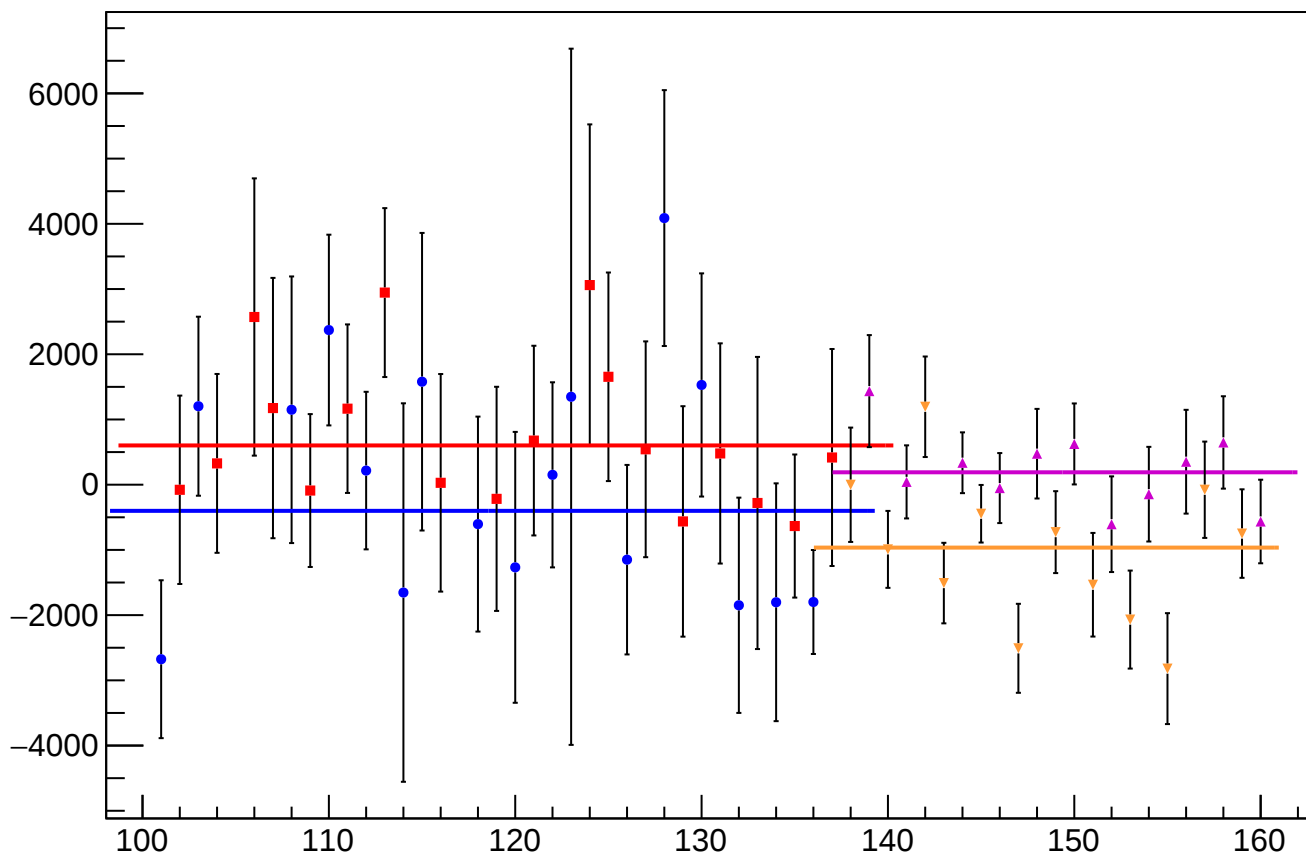
Right: 79.943 $\pm$ 0.016  $\chi^2$ /NDF: 894523.3/34

In: 75.508 $\pm$ 0.014  $\chi^2$ /NDF: 659374.6/27

Out: 75.838 $\pm$ 0.014  $\chi^2$ /NDF: 803220.4/29

All: 75.673 $\pm$ 0.010  $\chi^2$ /NDF: 1462884.9/57

asym\_sam\_12345678\_avg\_correction\_mean vs Slug, Sign Corrected



Right In: -401.047 $\pm$ 368.480  $\chi^2$ /NDF: 21.9/16

Left Out: -964.509 $\pm$ 192.310  $\chi^2$ /NDF:25.5/11

Right Out: 601.891 $\pm$ 363.668  $\chi^2$ /NDF: 8.7/17

Left In: 190.032 $\pm$ 192.124  $\chi^2$ /NDF:6.4/10

Left: -386.681 $\pm$ 135.918  $\chi^2$ /NDF: 49.9/22

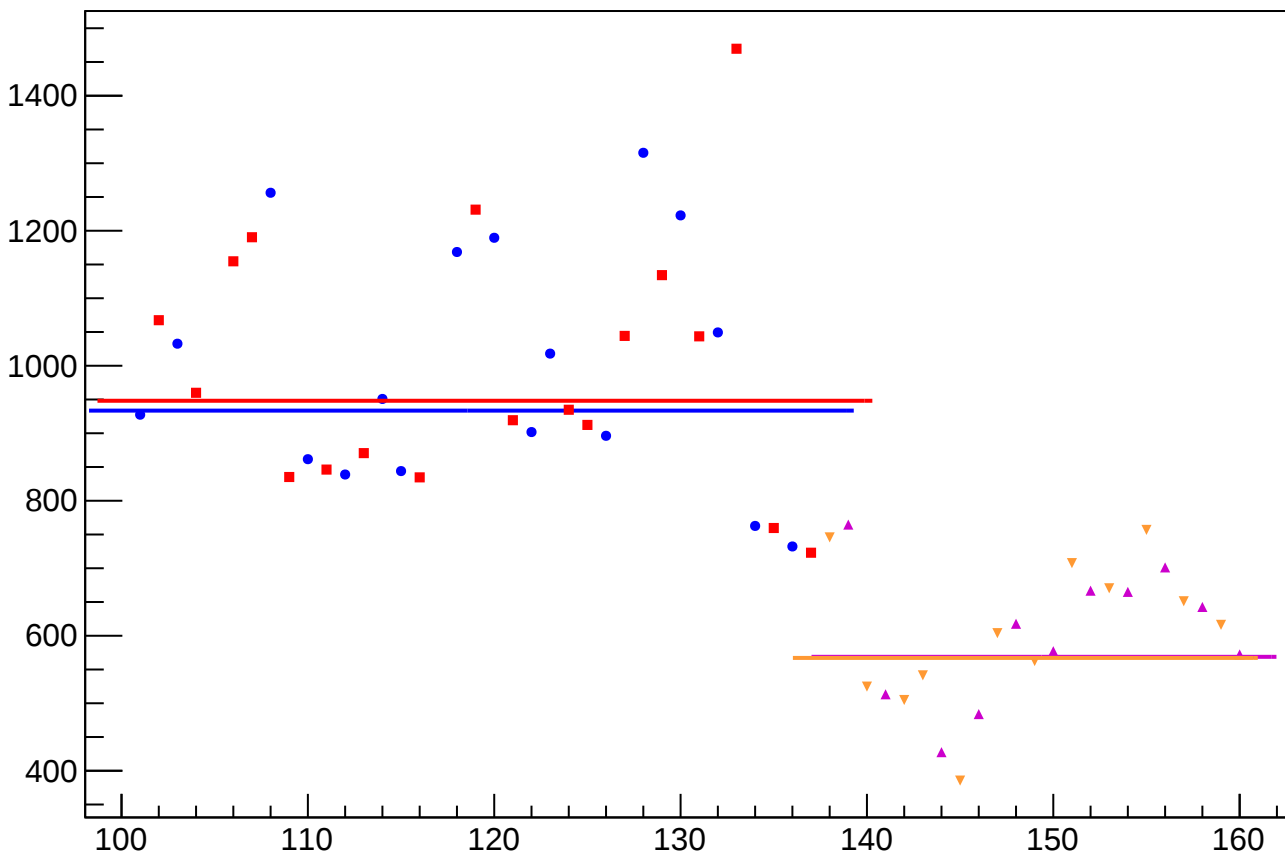
Right: 107.014 $\pm$ 258.836  $\chi^2$ /NDF: 34.4/34

In: 63.691 $\pm$ 170.358  $\chi^2$ /NDF:30.3/27

Out: -622.207 $\pm$ 170.004  $\chi^2$ /NDF:48.6/29

All: -279.972 $\pm$ 120.336  $\chi^2$ /NDF: 87.1/57

asym\_sam\_12345678\_avg\_correction\_rms vs Slug, Sign Corrected



Right In: 933.530 $\pm$ 0.261  $\chi^2$ /NDF: 442321.9/16

Left Out: 567.166 $\pm$ 0.136  $\chi^2$ /NDF: 690569.6/11

Right Out: 948.131 $\pm$ 0.257  $\chi^2$ /NDF: 405153.7/17

Left In: 568.798 $\pm$ 0.136  $\chi^2$ /NDF: 515916.1/10

Left: 567.983 $\pm$ 0.096  $\chi^2$ /NDF: 1206557.7/22

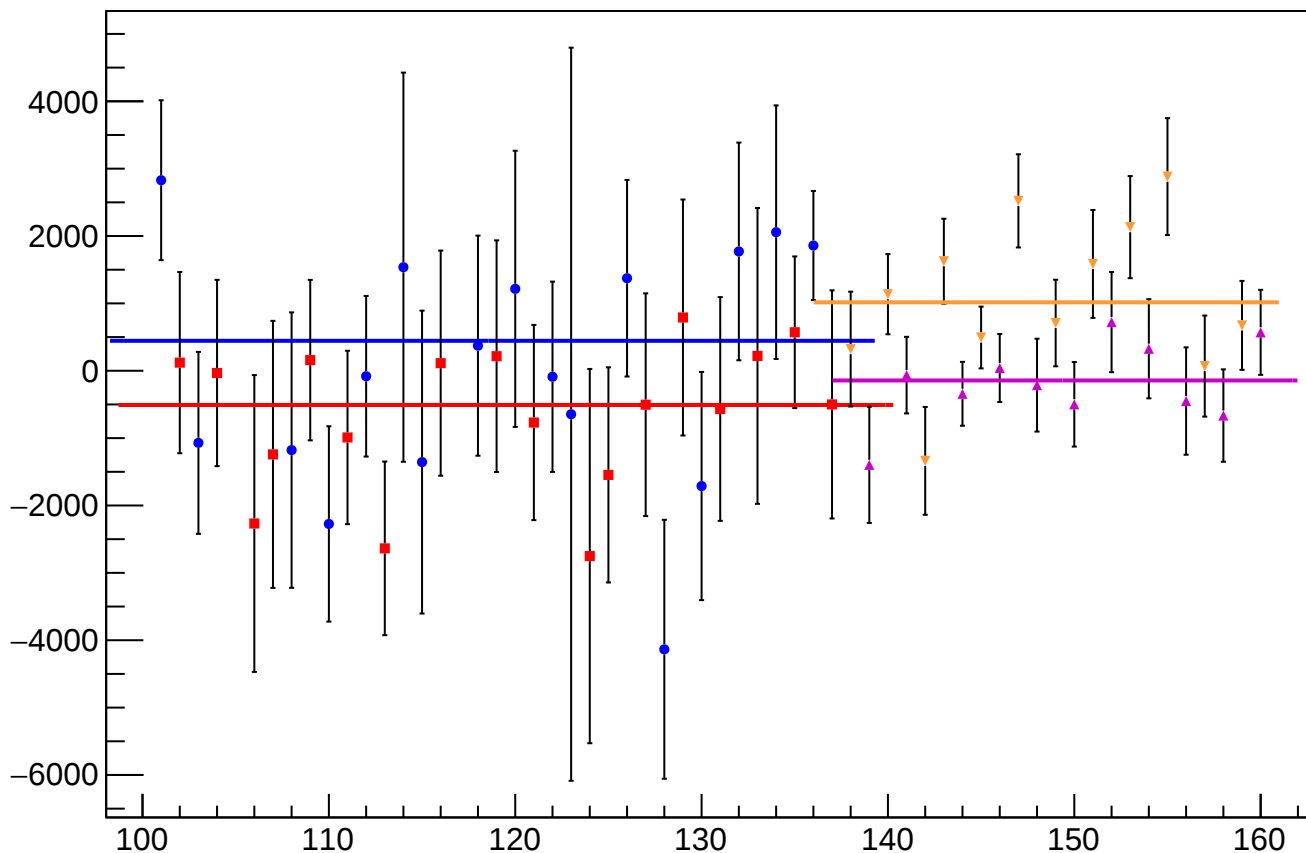
Right: 940.927 $\pm$ 0.183  $\chi^2$ /NDF: 849066.3/34

In: 646.758 $\pm$ 0.120  $\chi^2$ /NDF: 2498922.7/27

Out: 650.418 $\pm$ 0.120  $\chi^2$ /NDF: 2810881.5/29

All: 648.592 $\pm$ 0.085  $\chi^2$ /NDF: 5310266.7/57

asym\_sam\_12345678\_avg\_mean vs Slug, Sign Corrected



Right In: 444.669+/-367.099  $\chi^2/\text{NDF}$ : 22.9/16

Left Out: 1015.846+/-195.207  $\chi^2/\text{NDF}$ :25.7/11

Right Out: -508.221+/-364.112  $\chi^2/\text{NDF}$ : 7.3/17

Left In: -143.896+/-191.262  $\chi^2/\text{NDF}$ :6.5/10

Left: 424.137+/-136.616  $\chi^2/\text{NDF}$ : 50.3/22

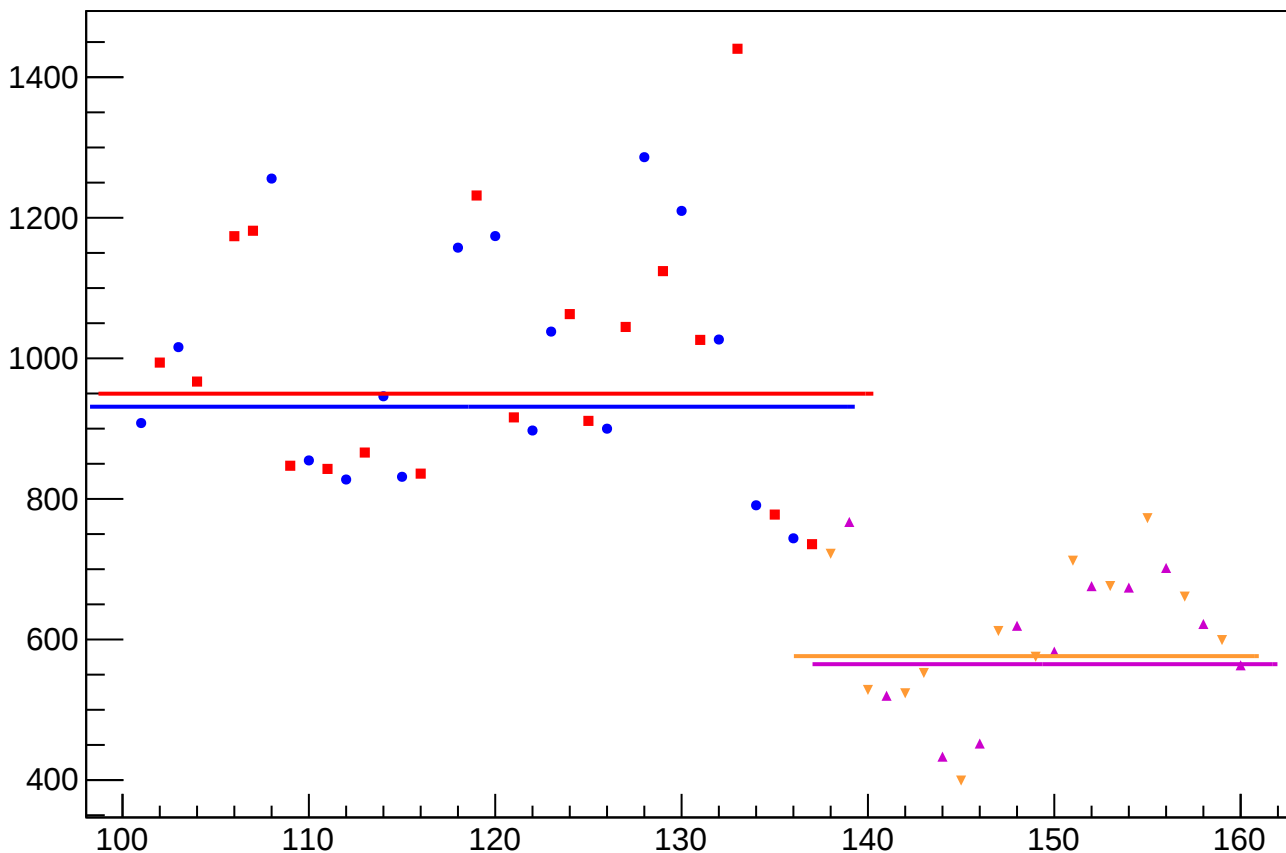
Right: -35.668+/-258.516  $\chi^2/\text{NDF}$ : 33.6/34

In: -18.239+/-169.621  $\chi^2/\text{NDF}$ :31.5/27

Out: 675.590+/-172.042  $\chi^2/\text{NDF}$ :46.6/29

All: 323.758+/-120.787  $\chi^2/\text{NDF}$ : 86.3/57

asym\_sam\_12345678\_avg\_rms vs Slug, Sign Corrected



Right In: 931.203 $\pm$ 0.260  $\chi^2/\text{NDF}$ : 400242.2/16

Left Out: 576.348 $\pm$ 0.138  $\chi^2/\text{NDF}$ : 608844.6/11

Right Out: 949.740 $\pm$ 0.257  $\chi^2/\text{NDF}$ : 365550.8/17

Left In: 564.892 $\pm$ 0.135  $\chi^2/\text{NDF}$ : 552586.6/10

Left: 570.503 $\pm$ 0.097  $\chi^2/\text{NDF}$ : 1164945.9/22

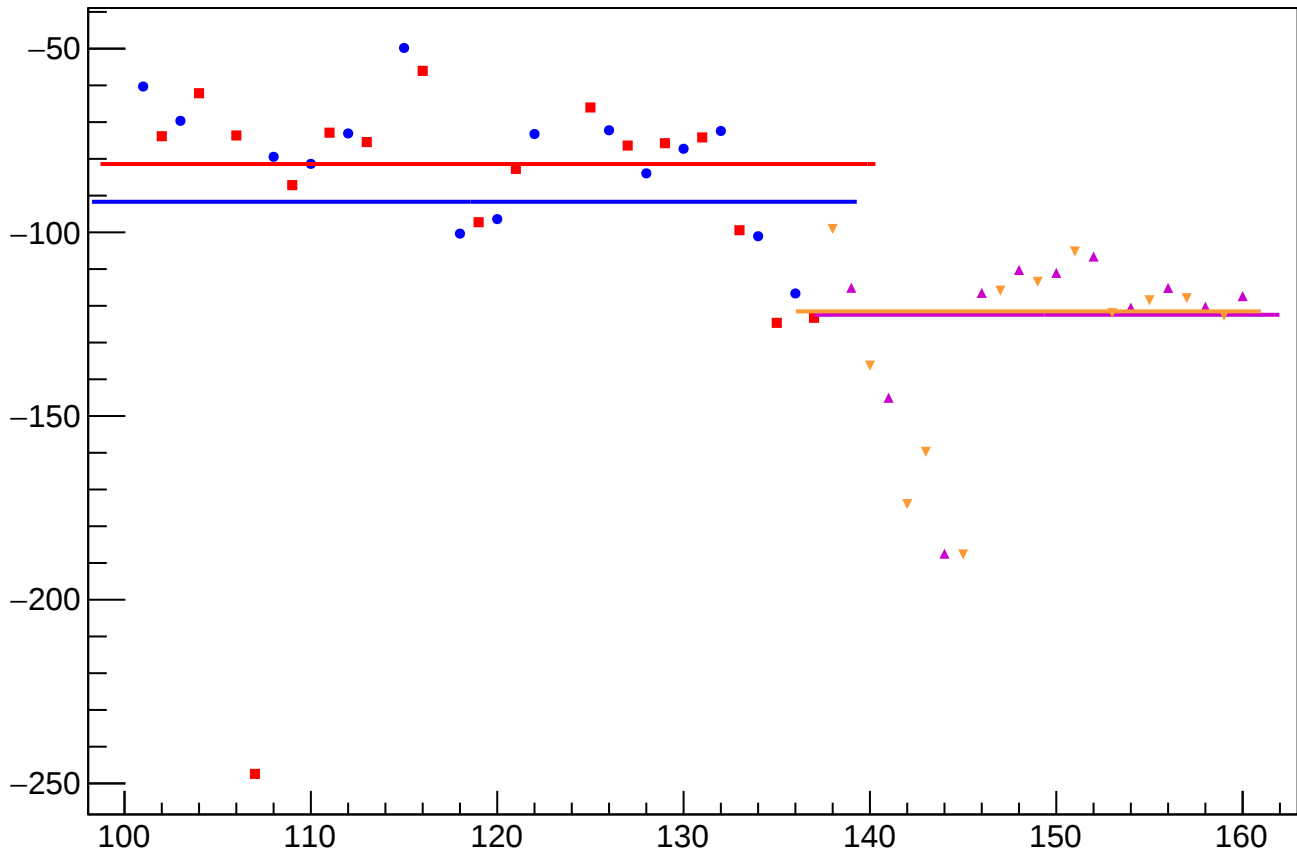
Right: 940.547 $\pm$ 0.183  $\chi^2/\text{NDF}$ : 768363.9/34

In: 643.098 $\pm$ 0.120  $\chi^2/\text{NDF}$ : 2519088.1/27

Out: 659.710 $\pm$ 0.122  $\chi^2/\text{NDF}$ : 2608081.8/29

All: 651.286 $\pm$ 0.085  $\chi^2/\text{NDF}$ : 5136625.0/57

# dit\_usl\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-91.679 \pm 0.070$   $\chi^2/\text{NDF}$ : 64621.9/14

Left Out:  $-121.510 \pm 0.084$   $\chi^2/\text{NDF}$ : 21814.0/11

Right Out:  $-81.406 \pm 0.098$   $\chi^2/\text{NDF}$ : 41708.8/16

Left In:  $-122.440 \pm 0.079$   $\chi^2/\text{NDF}$ : 42422.9/10

Left:  $-122.009 \pm 0.058$   $\chi^2/\text{NDF}$ : 64301.9/22

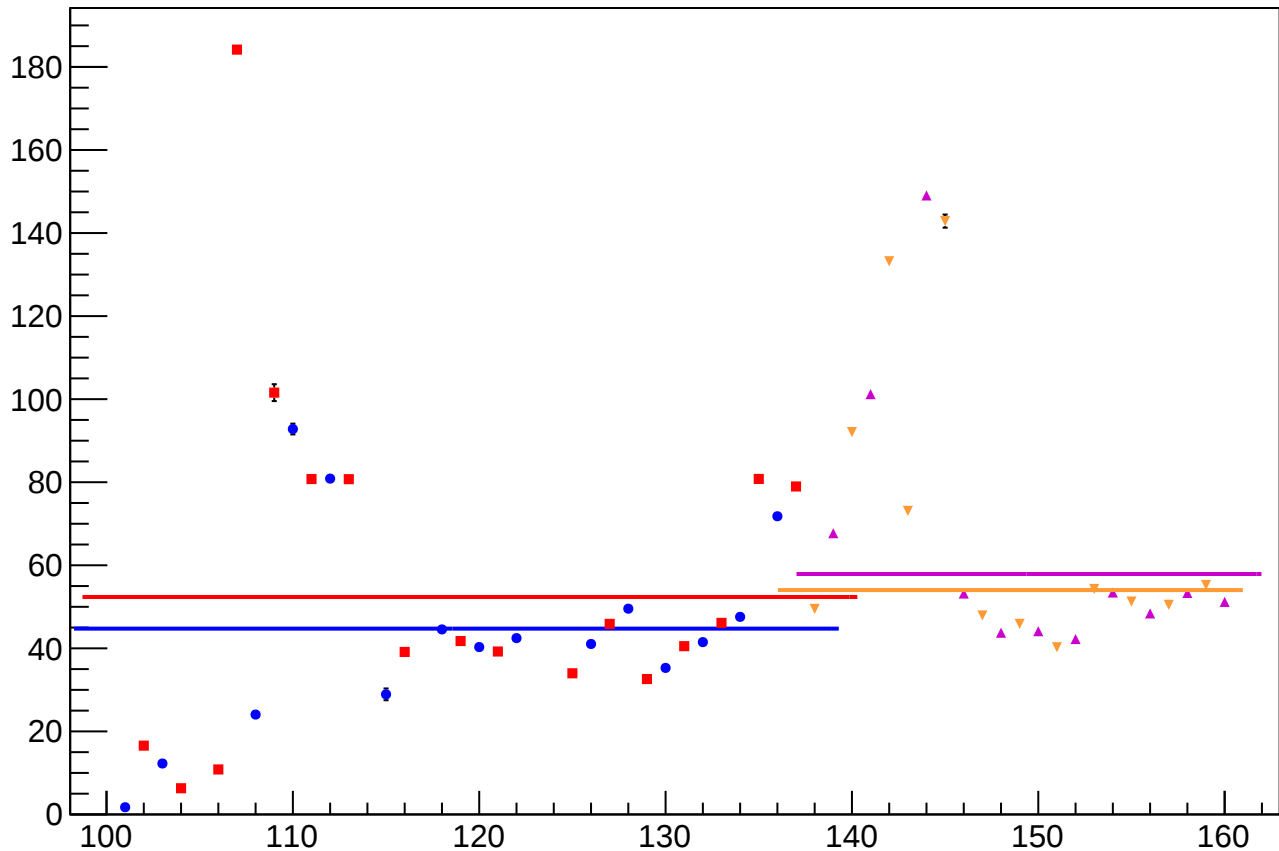
Right:  $-88.221 \pm 0.057$   $\chi^2/\text{NDF}$ : 113551.1/31

In:  $-105.317 \pm 0.052$   $\chi^2/\text{NDF}$ : 192331.4/25

Out:  $-104.507 \pm 0.064$   $\chi^2/\text{NDF}$ : 159073.9/28

All:  $-104.993 \pm 0.041$   $\chi^2/\text{NDF}$ : 351501.0/54

# dit\_usl\_4eX\_slope vs Slug, Sign Corrected



Right In: 44.745 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 84697.9/14

Left Out: 54.030 $\pm$ 0.069  $\chi^2/\text{NDF}$ : 41535.2/11

Right Out: 52.367 $\pm$ 0.113  $\chi^2/\text{NDF}$ : 69285.2/16

Left In: 57.903 $\pm$ 0.067  $\chi^2/\text{NDF}$ : 106764.9/10

Left: 56.006 $\pm$ 0.048  $\chi^2/\text{NDF}$ : 149916.1/22

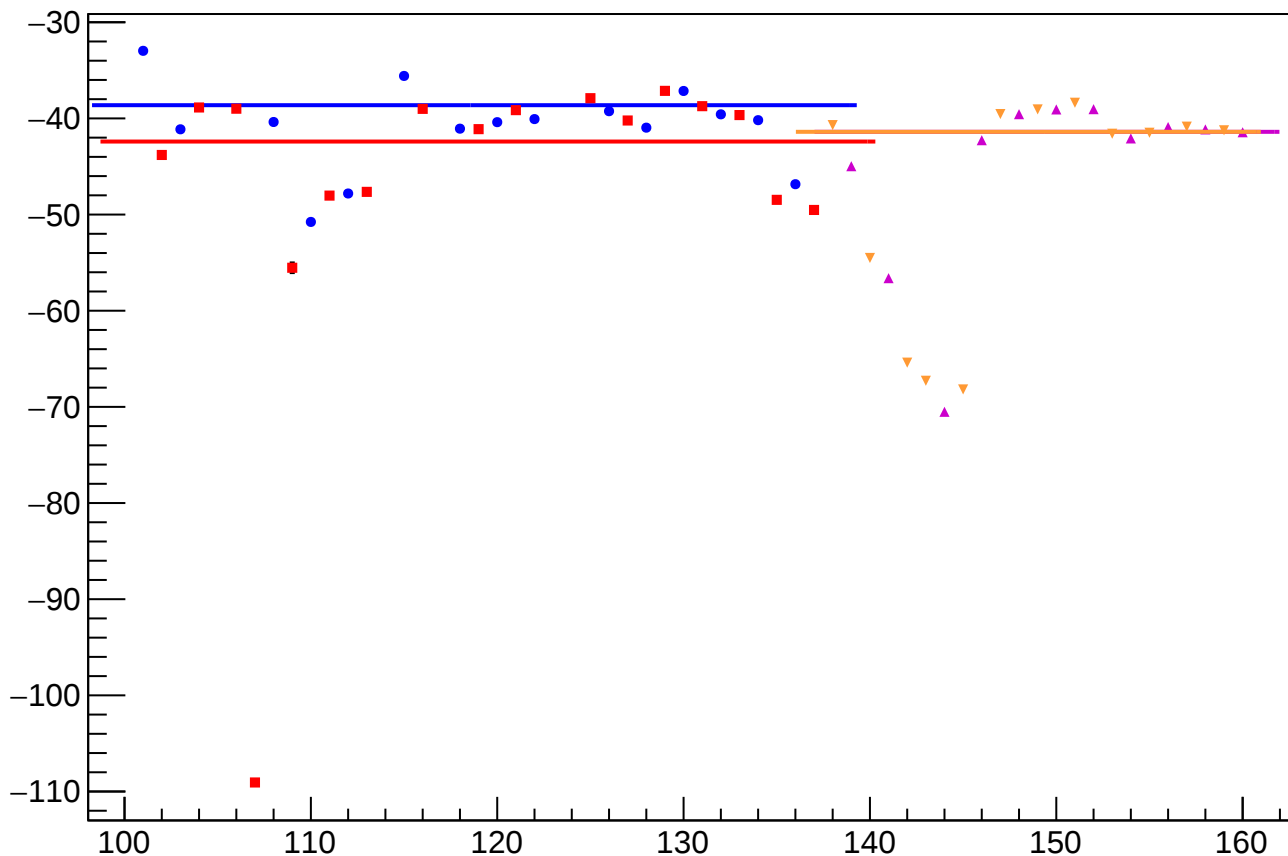
Right: 46.456 $\pm$ 0.053  $\chi^2/\text{NDF}$ : 157538.4/31

In: 50.619 $\pm$ 0.045  $\chi^2/\text{NDF}$ : 212531.5/25

Out: 53.577 $\pm$ 0.059  $\chi^2/\text{NDF}$ : 110979.3/28

All: 51.715 $\pm$ 0.036  $\chi^2/\text{NDF}$ : 325107.9/54

# dit\_usl\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-38.625 \pm 0.008$   $\chi^2/\text{NDF}: 240108.7/14$

Left Out:  $-41.394 \pm 0.009$   $\chi^2/\text{NDF}: 185303.1/11$

Right Out:  $-42.406 \pm 0.021$   $\chi^2/\text{NDF}: 269138.5/16$

Left In:  $-41.396 \pm 0.010$   $\chi^2/\text{NDF}: 142430.8/10$

Left:  $-41.395 \pm 0.007$   $\chi^2/\text{NDF}: 327733.9/22$

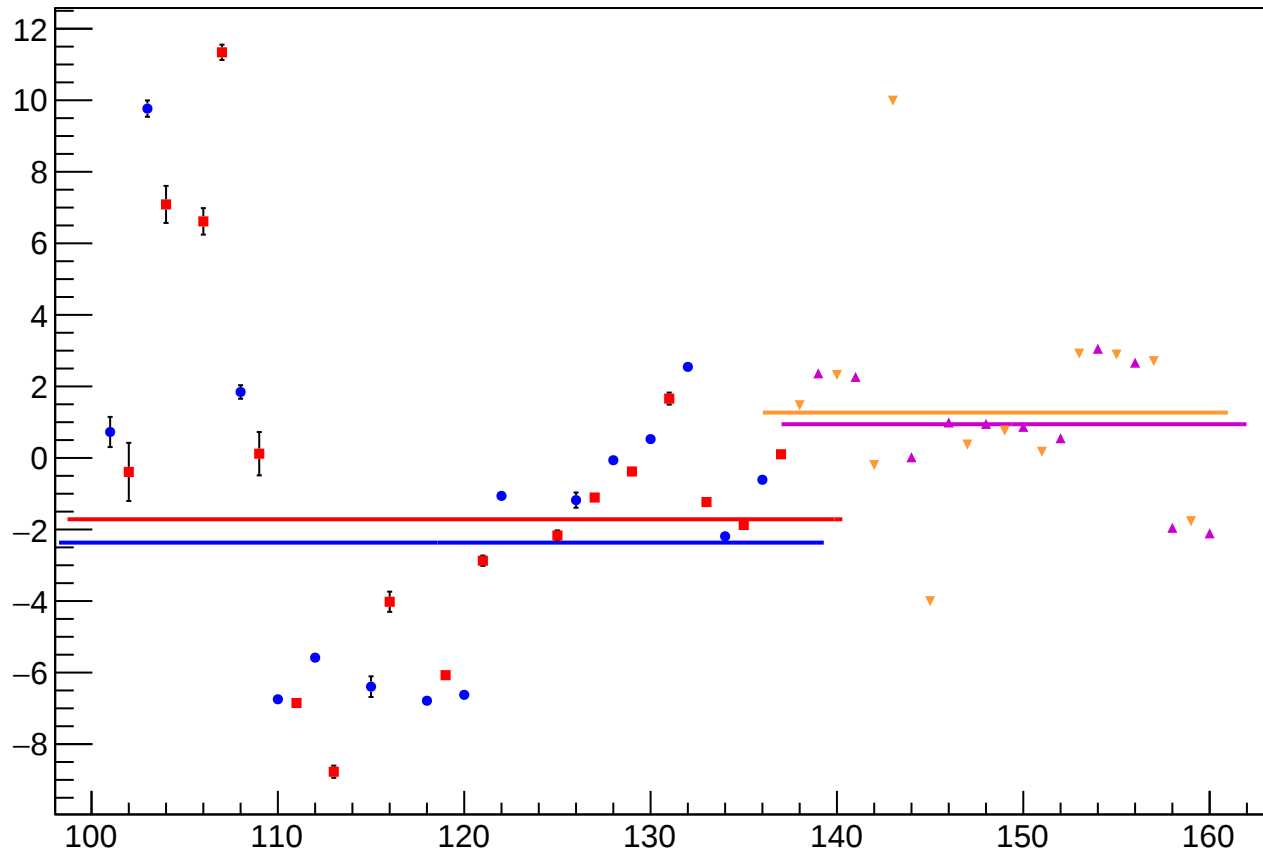
Right:  $-39.121 \pm 0.008$   $\chi^2/\text{NDF}: 536660.1/31$

In:  $-39.693 \pm 0.006$   $\chi^2/\text{NDF}: 425808.1/25$

Out:  $-41.558 \pm 0.009$   $\chi^2/\text{NDF}: 456336.6/28$

All:  $-40.371 \pm 0.005$   $\chi^2/\text{NDF}: 912269.7/54$

# dit\_usl\_4aY\_slope vs Slug, Sign Corrected



Right In: -2.367 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 28797.3/14

Left Out: 1.268 $\pm$ 0.010  $\chi^2/\text{NDF}$ :38570.5/11

Right Out: -1.715 $\pm$ 0.027  $\chi^2/\text{NDF}$ : 12719.3/16

Left In: 0.943 $\pm$ 0.009  $\chi^2/\text{NDF}$ :36691.2/10

Left: 1.087 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 75837.8/22

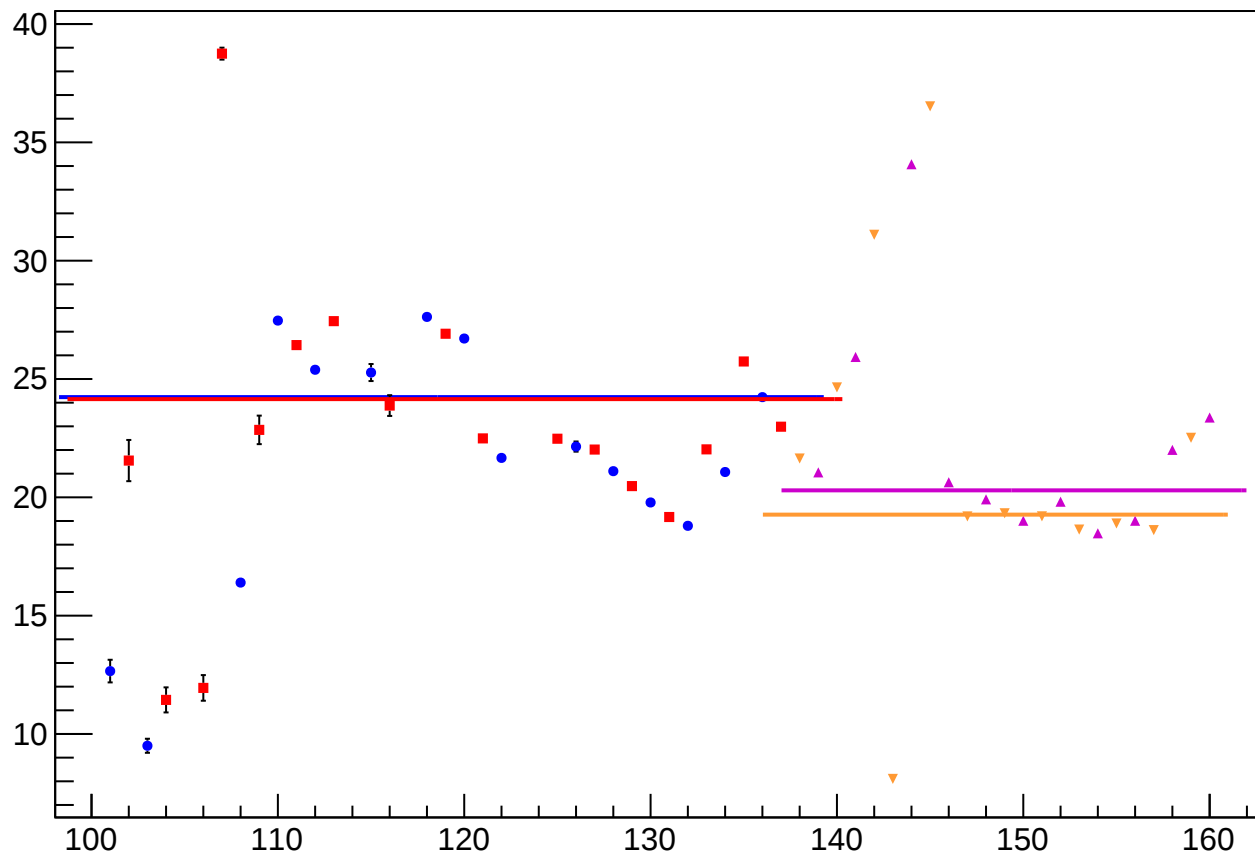
Right: -2.227 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 41975.5/31

In: -0.024 $\pm$ 0.008  $\chi^2/\text{NDF}$ :104624.5/25

Out: 0.901 $\pm$ 0.009  $\chi^2/\text{NDF}$ :62000.0/28

All: 0.338 $\pm$ 0.006  $\chi^2/\text{NDF}$ : 172423.2/54

# dit\_usl\_4eY\_slope vs Slug, Sign Corrected



Right In: 24.235 $\pm$ 0.022  $\chi^2$ /NDF: 21896.9/14

Left Out: 19.269 $\pm$ 0.010  $\chi^2$ /NDF:48070.0/11

Right Out: 24.150 $\pm$ 0.024  $\chi^2$ /NDF: 13222.6/16

Left In: 20.295 $\pm$ 0.009  $\chi^2$ /NDF:66121.3/10

Left: 19.859 $\pm$ 0.007  $\chi^2$ /NDF: 119958.6/22

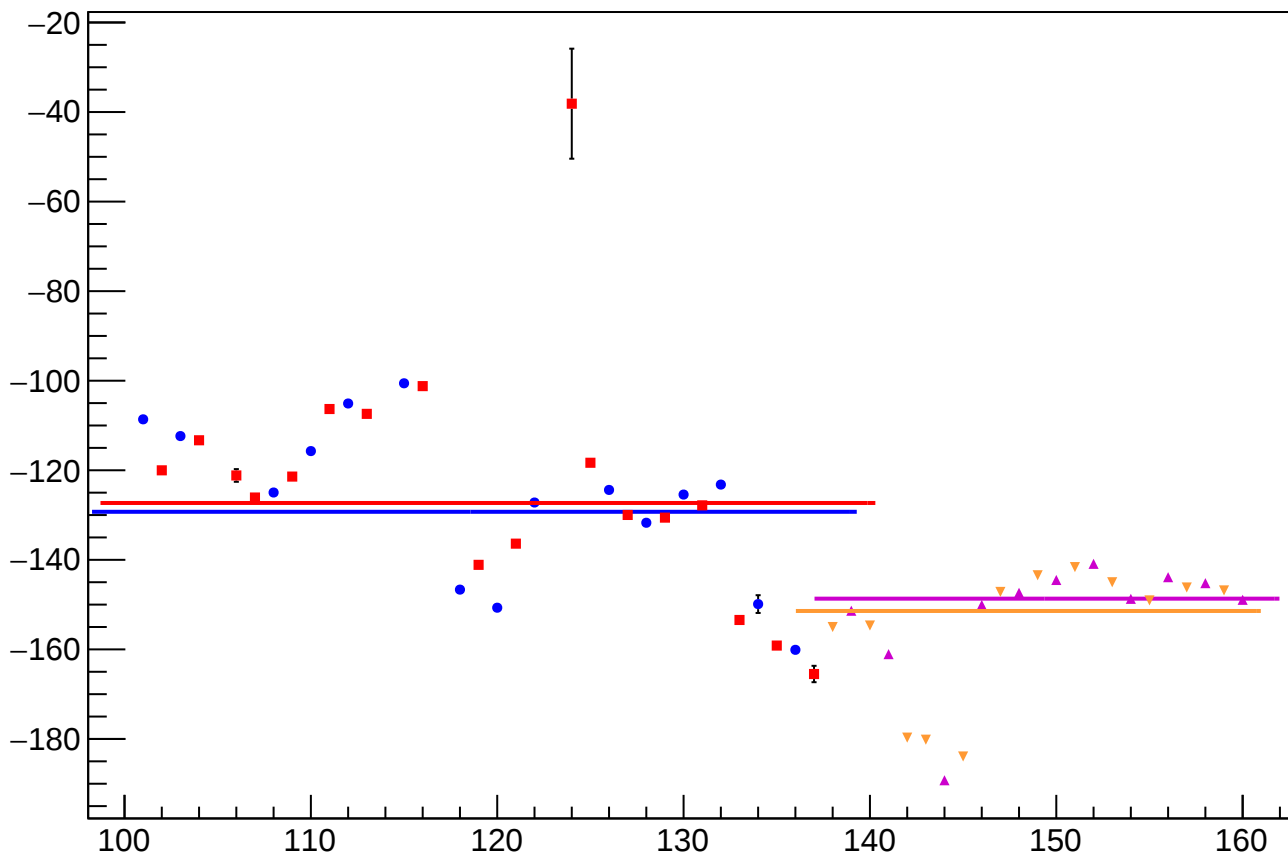
Right: 24.197 $\pm$ 0.016  $\chi^2$ /NDF: 35126.2/31

In: 20.838 $\pm$ 0.008  $\chi^2$ /NDF:115617.1/25

Out: 20.002 $\pm$ 0.009  $\chi^2$ /NDF:95382.3/28

All: 20.480 $\pm$ 0.006  $\chi^2$ /NDF: 215478.2/54

# dit\_usr\_4aX\_slope vs Slug, Sign Corrected



Right In: -129.272 $\pm$ 0.088  $\chi^2$ /NDF: 35109.7/14

Left Out: -151.422 $\pm$ 0.073  $\chi^2$ /NDF: 25393.4/11

Right Out: -127.303 $\pm$ 0.084  $\chi^2$ /NDF: 29597.3/17

Left In: -148.670 $\pm$ 0.063  $\chi^2$ /NDF: 20820.7/10

Left: -149.839 $\pm$ 0.048  $\chi^2$ /NDF: 47026.0/22

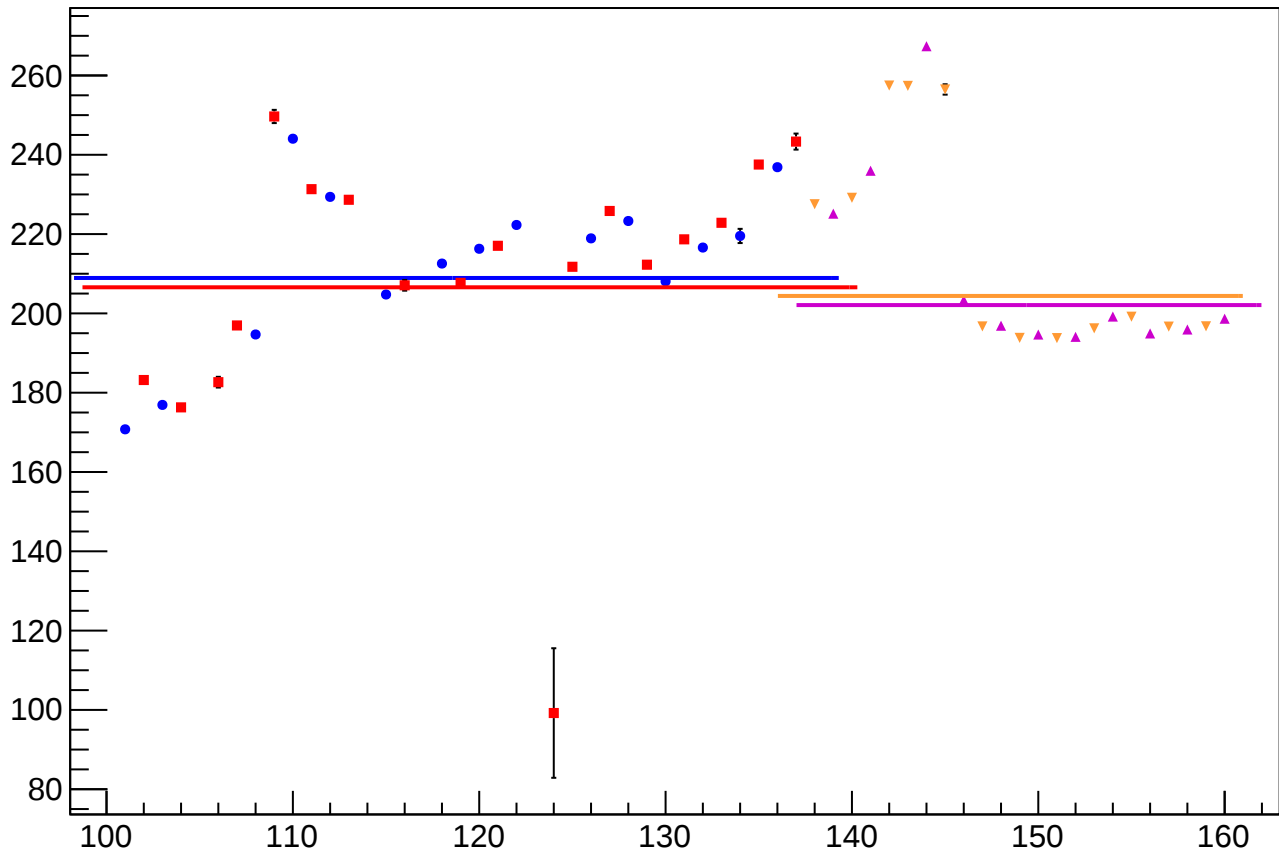
Right: -128.248 $\pm$ 0.061  $\chi^2$ /NDF: 64968.8/32

In: -142.083 $\pm$ 0.051  $\chi^2$ /NDF: 88184.8/25

Out: -141.049 $\pm$ 0.055  $\chi^2$ /NDF: 101623.5/29

All: -141.606 $\pm$ 0.038  $\chi^2$ /NDF: 189996.8/55

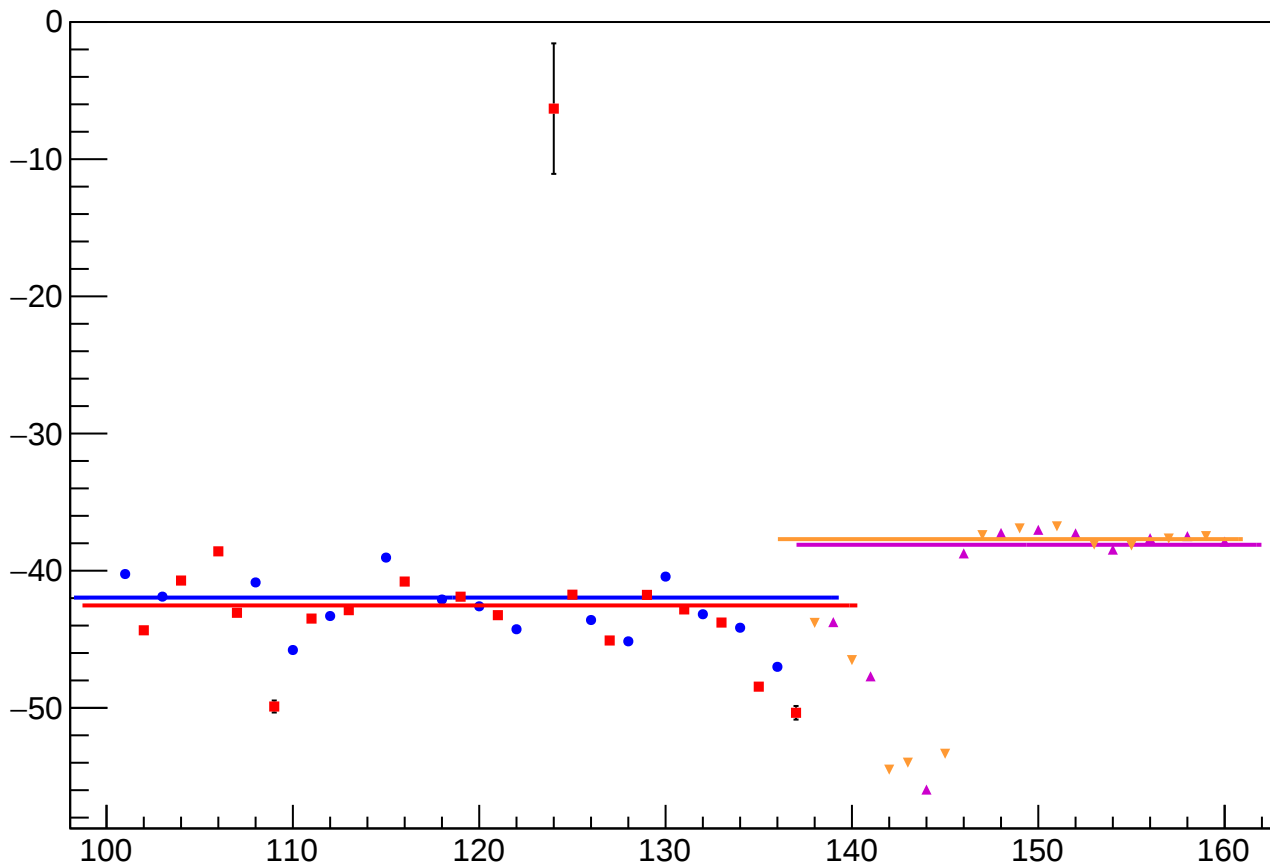
# dit\_usr\_4eX\_slope vs Slug, Sign Corrected



Right In: 208.934 $\pm$ 0.089  $\chi^2/\text{NDF}$ : 44684.8/14  
 Left Out: 204.401 $\pm$ 0.060  $\chi^2/\text{NDF}$ : 99152.0/11  
 Right Out: 206.581 $\pm$ 0.083  $\chi^2/\text{NDF}$ : 48210.8/17  
 Left In: 202.096 $\pm$ 0.054  $\chi^2/\text{NDF}$ : 74642.1/10

Left: 203.138 $\pm$ 0.040  $\chi^2/\text{NDF}$ : 174603.6/22  
 Right: 207.675 $\pm$ 0.061  $\chi^2/\text{NDF}$ : 93267.6/32  
 In: 203.953 $\pm$ 0.046  $\chi^2/\text{NDF}$ : 123606.9/25  
 Out: 205.147 $\pm$ 0.049  $\chi^2/\text{NDF}$ : 147814.3/29  
 All: 204.523 $\pm$ 0.034  $\chi^2/\text{NDF}$ : 271736.3/55

# dit\_usr\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-41.959 \pm 0.016$   $\chi^2/\text{NDF}$ : 24229.7/14

Left Out:  $-37.698 \pm 0.005$   $\chi^2/\text{NDF}$ : 214731.8/11

Right Out:  $-42.532 \pm 0.021$   $\chi^2/\text{NDF}$ : 6137.0/17

Left In:  $-38.110 \pm 0.005$   $\chi^2/\text{NDF}$ : 128954.2/10

Left:  $-37.892 \pm 0.004$   $\chi^2/\text{NDF}$ : 346672.5/22

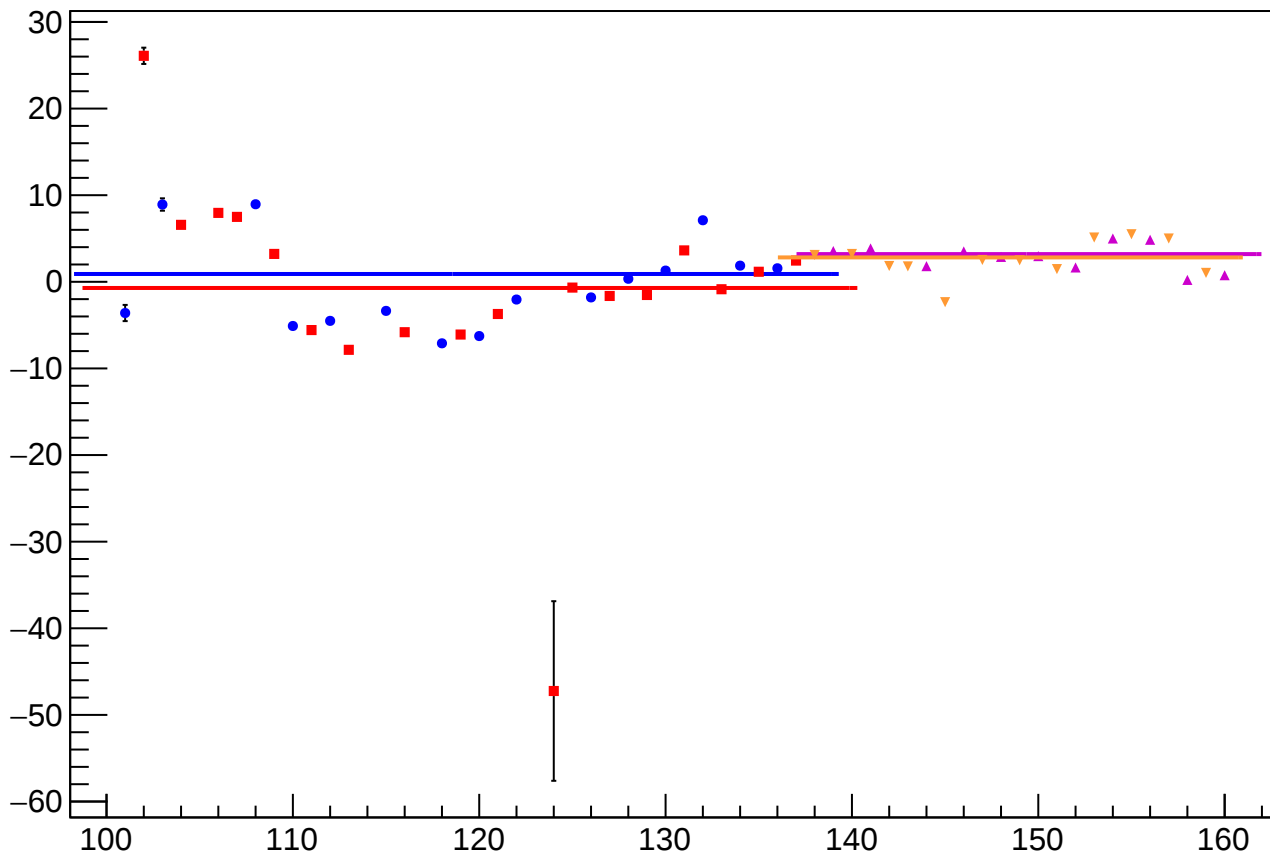
Right:  $-42.168 \pm 0.012$   $\chi^2/\text{NDF}$ : 30855.6/32

In:  $-38.534 \pm 0.005$   $\chi^2/\text{NDF}$ : 207324.3/25

Out:  $-37.983 \pm 0.005$   $\chi^2/\text{NDF}$ : 272411.7/29

All:  $-38.249 \pm 0.004$   $\chi^2/\text{NDF}$ : 485580.0/55

# dit\_usr\_4aY\_slope vs Slug, Sign Corrected



Right In:  $0.903 \pm 0.020$   $\chi^2/\text{NDF}: 21140.4/14$

Left Out:  $2.816 \pm 0.009$   $\chi^2/\text{NDF}: 35451.6/11$

Right Out:  $-0.711 \pm 0.024$   $\chi^2/\text{NDF}: 30723.8/17$

Left In:  $3.200 \pm 0.009$   $\chi^2/\text{NDF}: 34774.2/10$

Left:  $3.016 \pm 0.006$   $\chi^2/\text{NDF}: 71097.4/22$

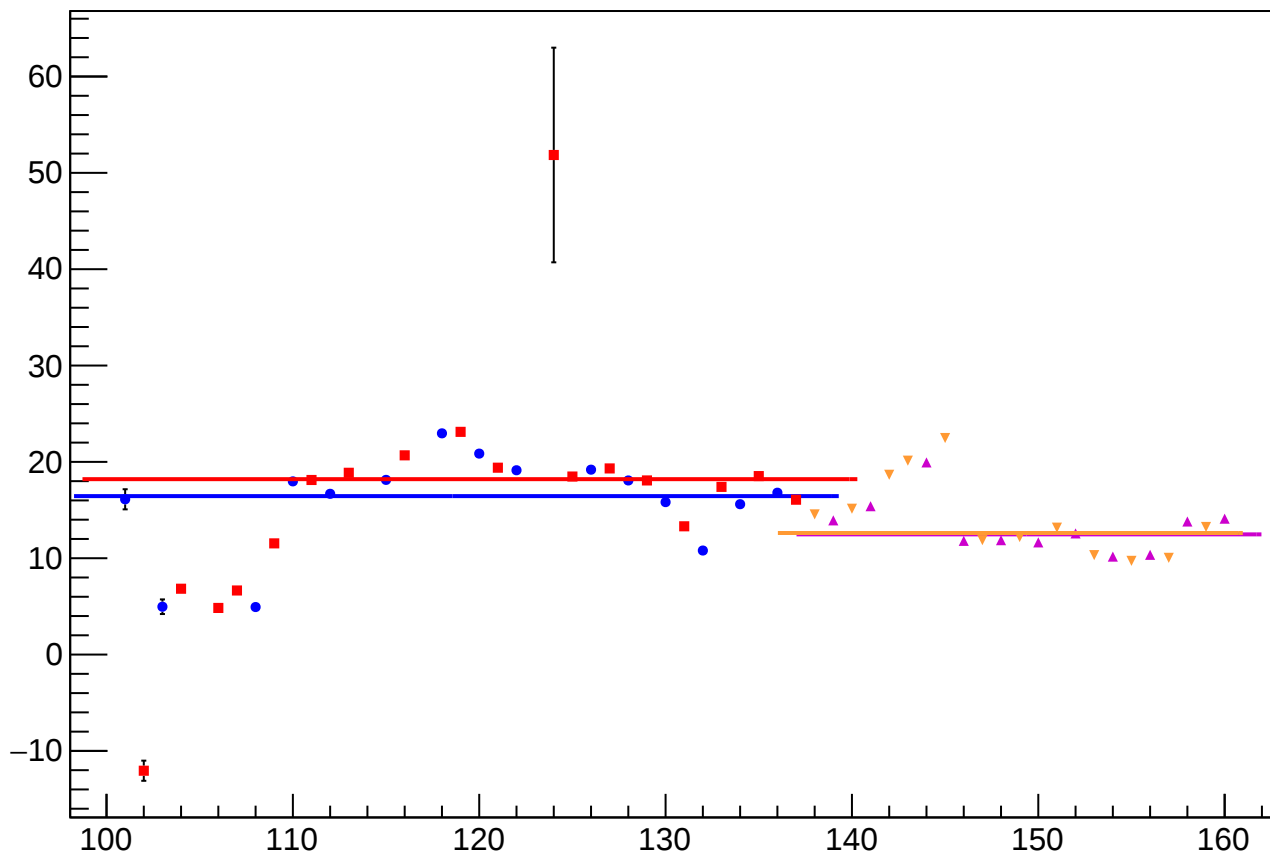
Right:  $0.250 \pm 0.015$   $\chi^2/\text{NDF}: 54492.0/32$

In:  $2.815 \pm 0.008$   $\chi^2/\text{NDF}: 66844.7/25$

Out:  $2.359 \pm 0.009$   $\chi^2/\text{NDF}: 84514.2/29$

All:  $2.602 \pm 0.006$   $\chi^2/\text{NDF}: 152808.0/55$

# dit\_usr\_4eY\_slope vs Slug, Sign Corrected



Right In: 16.447 $\pm$ 0.024  $\chi^2$ /NDF: 14183.1/14

Left Out: 12.619 $\pm$ 0.011  $\chi^2$ /NDF: 57954.8/11

Right Out: 18.207 $\pm$ 0.020  $\chi^2$ /NDF: 27493.7/17

Left In: 12.476 $\pm$ 0.011  $\chi^2$ /NDF: 26129.0/10

Left: 12.548 $\pm$ 0.008  $\chi^2$ /NDF: 84169.3/22

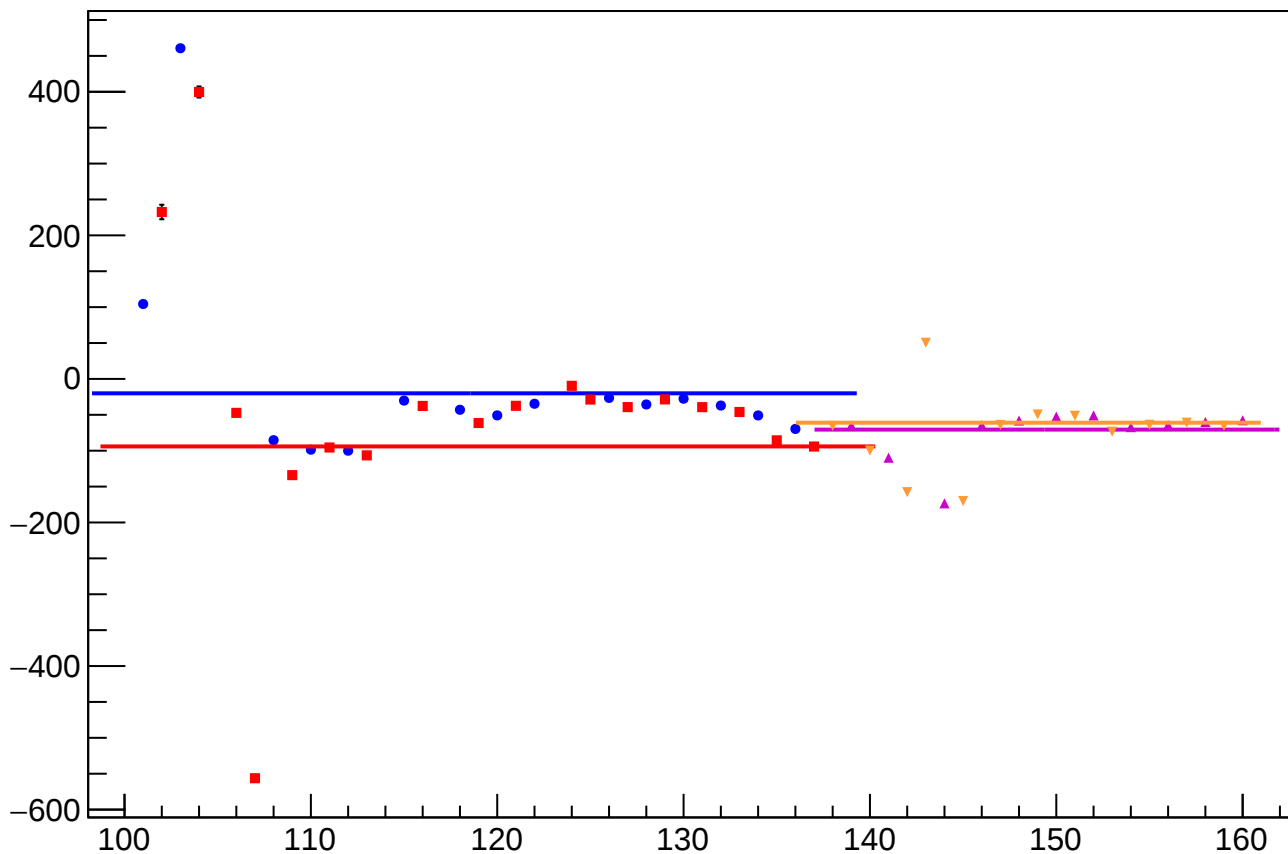
Right: 17.482 $\pm$ 0.016  $\chi^2$ /NDF: 44731.9/32

In: 13.143 $\pm$ 0.010  $\chi^2$ /NDF: 62339.5/25

Out: 13.853 $\pm$ 0.010  $\chi^2$ /NDF: 143731.3/29

All: 13.513 $\pm$ 0.007  $\chi^2$ /NDF: 208691.4/55

# dit\_atl1\_4aX\_slope vs Slug, Sign Corrected



Right In: -20.059+/-0.153  $\chi^2/\text{NDF}$ : 441461.8/14

Left Out: -60.996+/-0.133  $\chi^2/\text{NDF}$ : 45117.9/11

Right Out: -94.050+/-0.012  $\chi^2/\text{NDF}$ : 87487.7/17

Left In: -70.626+/-0.153  $\chi^2/\text{NDF}$ : 35983.4/10

Left: -65.136+/-0.100  $\chi^2/\text{NDF}$ : 83357.5/22

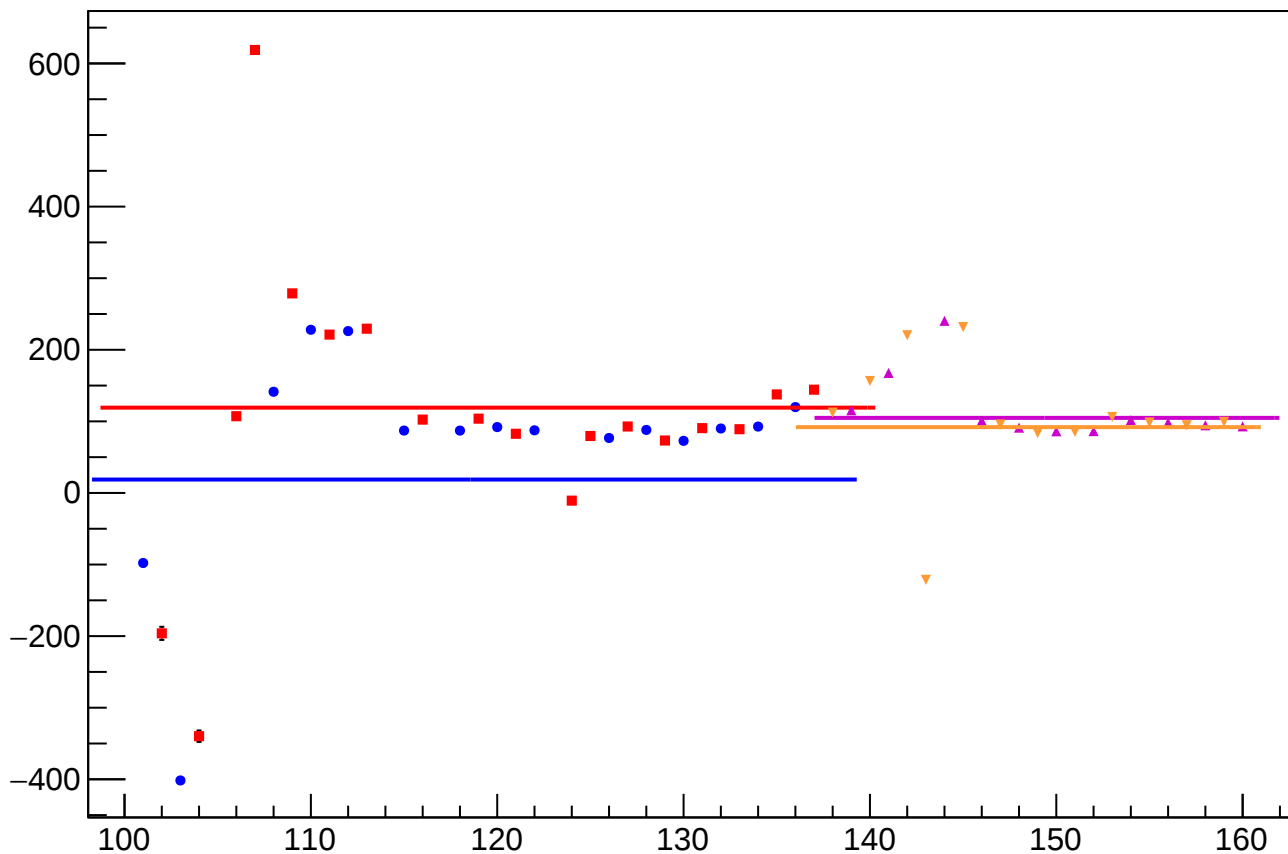
Right: -93.566+/-0.012  $\chi^2/\text{NDF}$ : 760844.5/32

In: -45.353+/-0.108  $\chi^2/\text{NDF}$ : 531980.5/25

Out: -93.764+/-0.012  $\chi^2/\text{NDF}$ : 193892.5/29

All: -93.139+/-0.012  $\chi^2/\text{NDF}$ : 923220.9/55

# dit\_atl1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $18.731 \pm 0.152$   $\chi^2/\text{NDF}$ : 1101803.8/14

Left Out:  $91.934 \pm 0.112$   $\chi^2/\text{NDF}$ : 167295.6/11

Right Out:  $119.167 \pm 0.199$   $\chi^2/\text{NDF}$ : 87450.0/17

Left In:  $104.896 \pm 0.131$   $\chi^2/\text{NDF}$ : 57062.9/10

Left:  $97.413 \pm 0.085$   $\chi^2/\text{NDF}$ : 229978.7/22

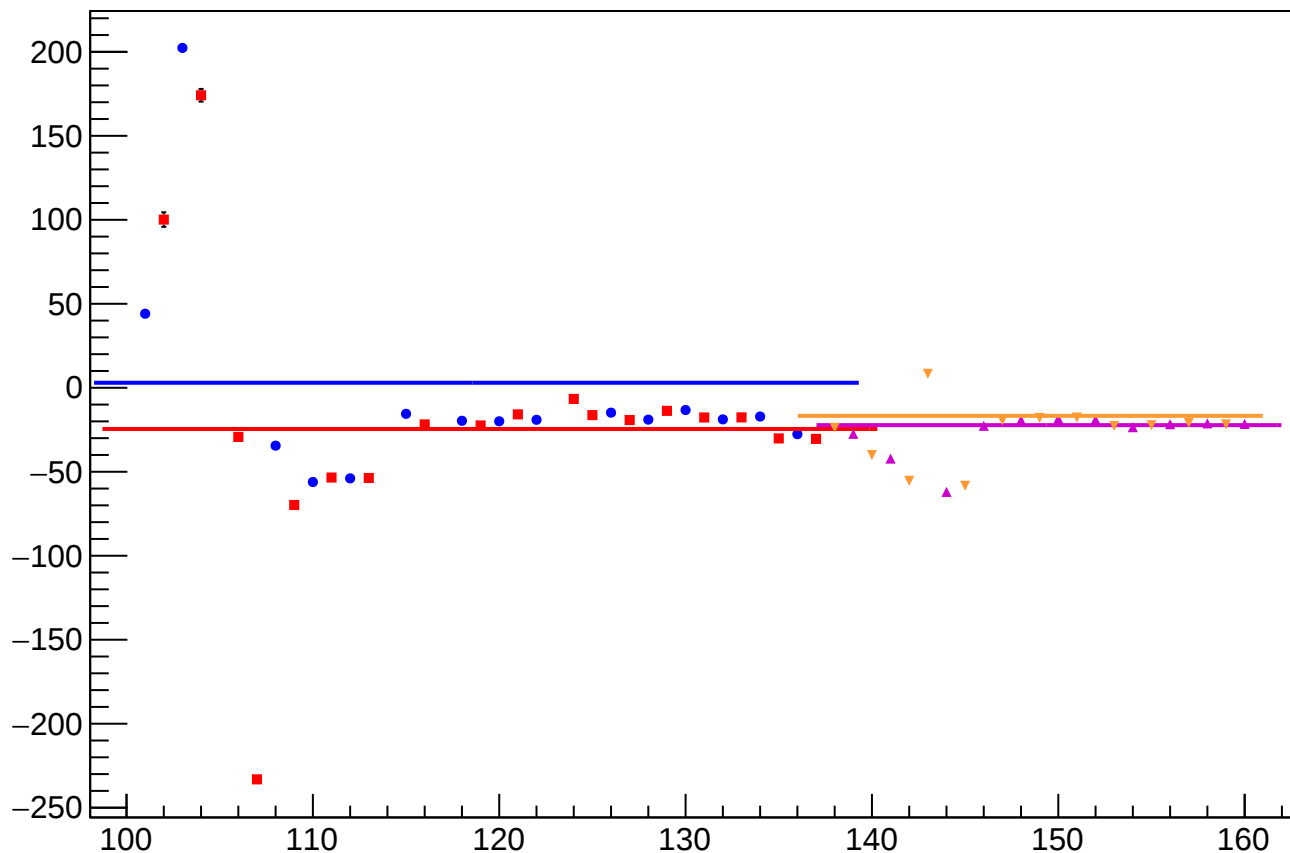
Right:  $55.701 \pm 0.121$   $\chi^2/\text{NDF}$ : 1349806.5/32

In:  $68.071 \pm 0.099$   $\chi^2/\text{NDF}$ : 1342694.1/25

Out:  $98.509 \pm 0.098$   $\chi^2/\text{NDF}$ : 268916.1/29

All:  $83.523 \pm 0.070$   $\chi^2/\text{NDF}$ : 1659195.0/55

# dit\_atl1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $2.991 \pm 0.027$   $\chi^2/\text{NDF}: 3496745.8/14$

Left Out:  $-16.709 \pm 0.016$   $\chi^2/\text{NDF}: 568132.5/11$

Right Out:  $-24.533 \pm 0.044$   $\chi^2/\text{NDF}: 176488.8/17$

Left In:  $-22.242 \pm 0.019$   $\chi^2/\text{NDF}: 117478.7/10$

Left:  $-18.916 \pm 0.012$   $\chi^2/\text{NDF}: 736357.4/22$

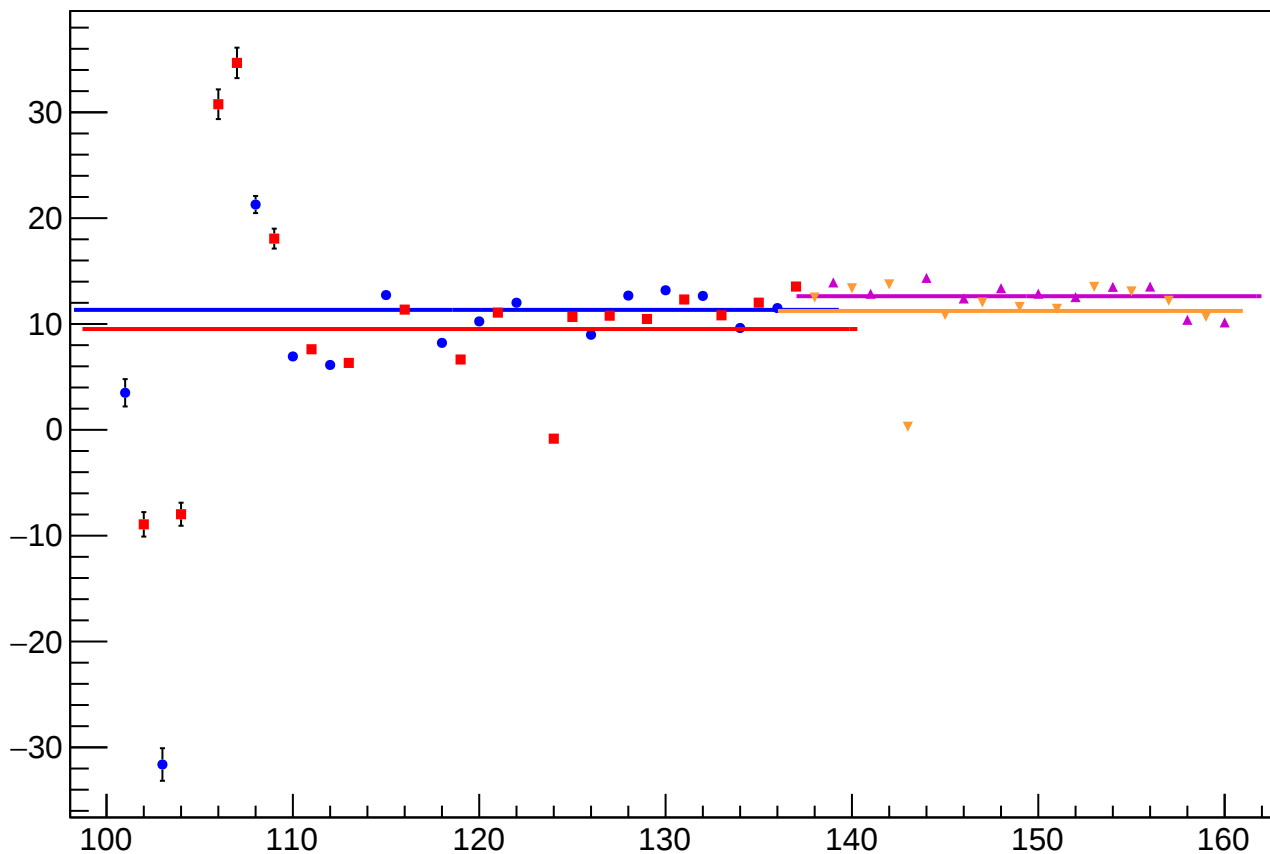
Right:  $-4.585 \pm 0.023$   $\chi^2/\text{NDF}: 3961708.4/32$

In:  $-13.812 \pm 0.016$   $\chi^2/\text{NDF}: 4200759.8/25$

Out:  $-17.587 \pm 0.015$   $\chi^2/\text{NDF}: 773173.6/29$

All:  $-15.815 \pm 0.011$   $\chi^2/\text{NDF}: 5005250.2/55$

# dit\_atl1\_4aY\_slope vs Slug, Sign Corrected



Right In: 11.334 $\pm$ 0.037  $\chi^2$ /NDF: 2406.0/14

Left Out: 11.234 $\pm$ 0.021  $\chi^2$ /NDF:27906.7/11

Right Out: 9.524 $\pm$ 0.048  $\chi^2$ /NDF: 4066.9/17

Left In: 12.625 $\pm$ 0.018  $\chi^2$ /NDF:4529.0/10

Left: 12.038 $\pm$ 0.014  $\chi^2$ /NDF: 35011.7/22

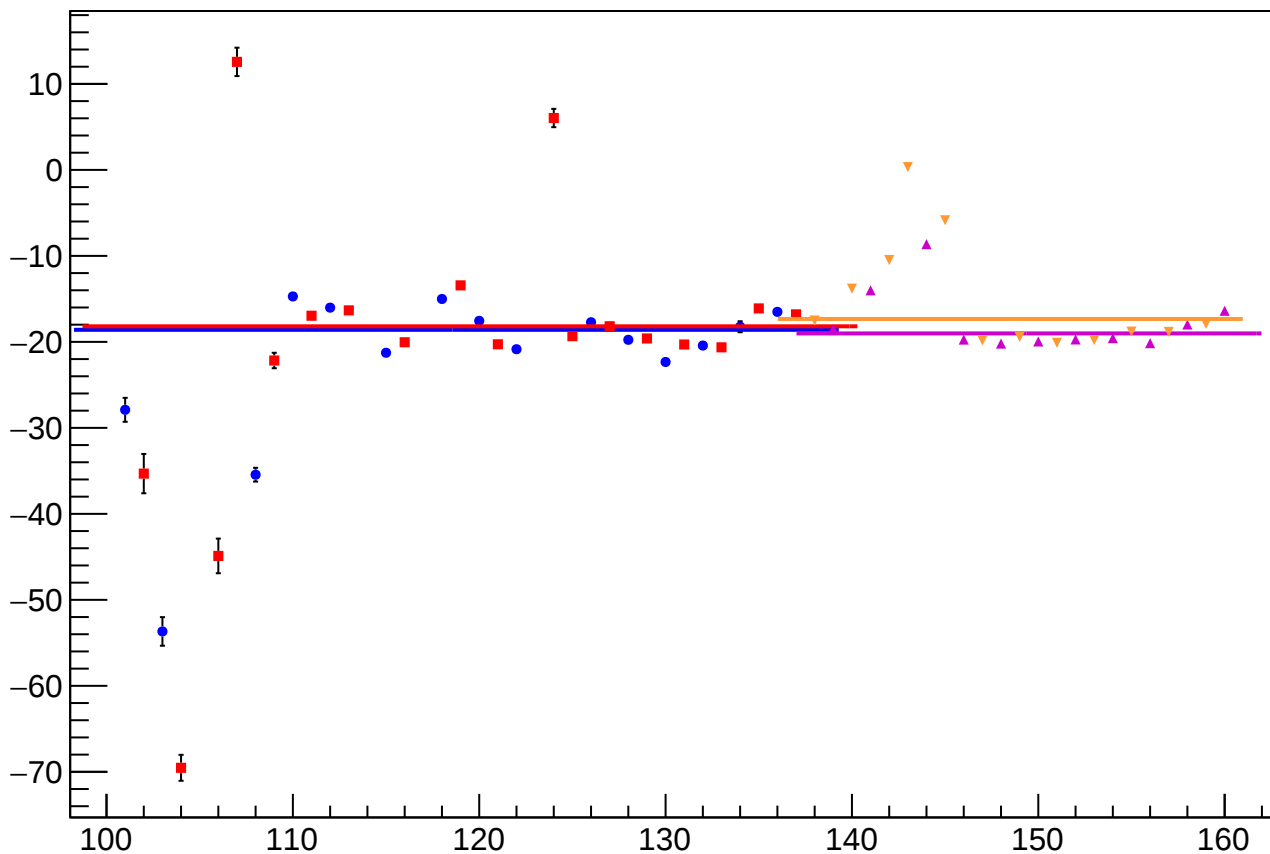
Right: 10.651 $\pm$ 0.029  $\chi^2$ /NDF: 7358.3/32

In: 12.386 $\pm$ 0.016  $\chi^2$ /NDF:7907.2/25

Out: 10.963 $\pm$ 0.019  $\chi^2$ /NDF:33040.9/29

All: 11.796 $\pm$ 0.012  $\chi^2$ /NDF: 44195.2/55

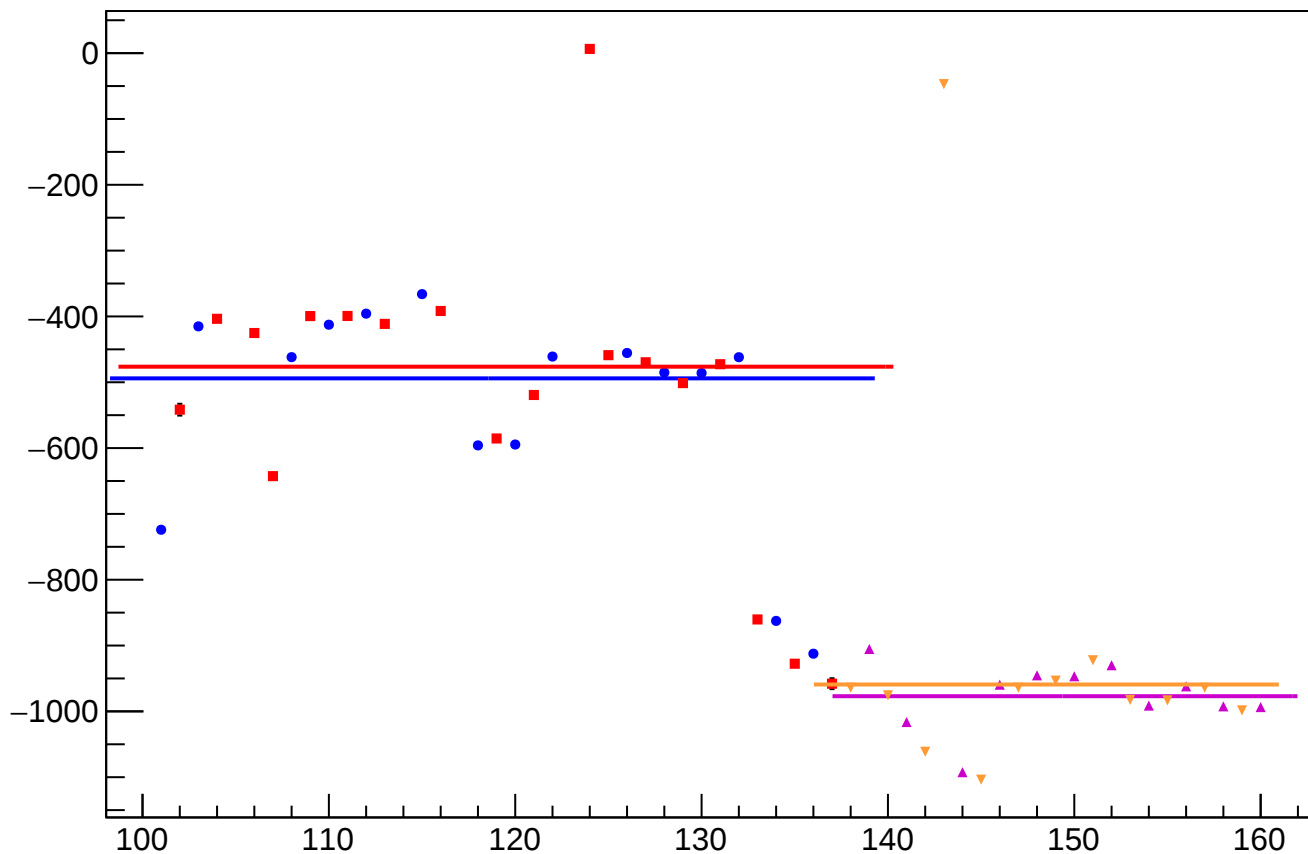
# dit\_atl1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-18.597 \pm 0.037$   $\chi^2/\text{NDF}$ : 6189.1/14  
 Left Out:  $-17.335 \pm 0.023$   $\chi^2/\text{NDF}$ : 43953.7/11  
 Right Out:  $-18.189 \pm 0.049$   $\chi^2/\text{NDF}$ : 4881.1/17  
 Left In:  $-19.016 \pm 0.020$   $\chi^2/\text{NDF}$ : 8104.5/10

Left:  $-18.269 \pm 0.015$   $\chi^2/\text{NDF}$ : 55122.2/22  
 Right:  $-18.450 \pm 0.030$   $\chi^2/\text{NDF}$ : 11113.5/32  
 In:  $-18.920 \pm 0.018$   $\chi^2/\text{NDF}$ : 14391.7/25  
 Out:  $-17.483 \pm 0.021$   $\chi^2/\text{NDF}$ : 49081.7/29  
 All:  $-18.306 \pm 0.013$   $\chi^2/\text{NDF}$ : 66265.2/55

# dit\_atl2\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-494.081 \pm 0.232$   $\chi^2/\text{NDF}: 325996.5/14$

Left Out:  $-959.180 \pm 0.228$   $\chi^2/\text{NDF}: 312167.8/11$

Right Out:  $-476.348 \pm 0.185$   $\chi^2/\text{NDF}: 594116.3/17$

Left In:  $-976.961 \pm 0.210$   $\chi^2/\text{NDF}: 22835.8/10$

Left:  $-968.815 \pm 0.154$   $\chi^2/\text{NDF}: 338292.4/22$

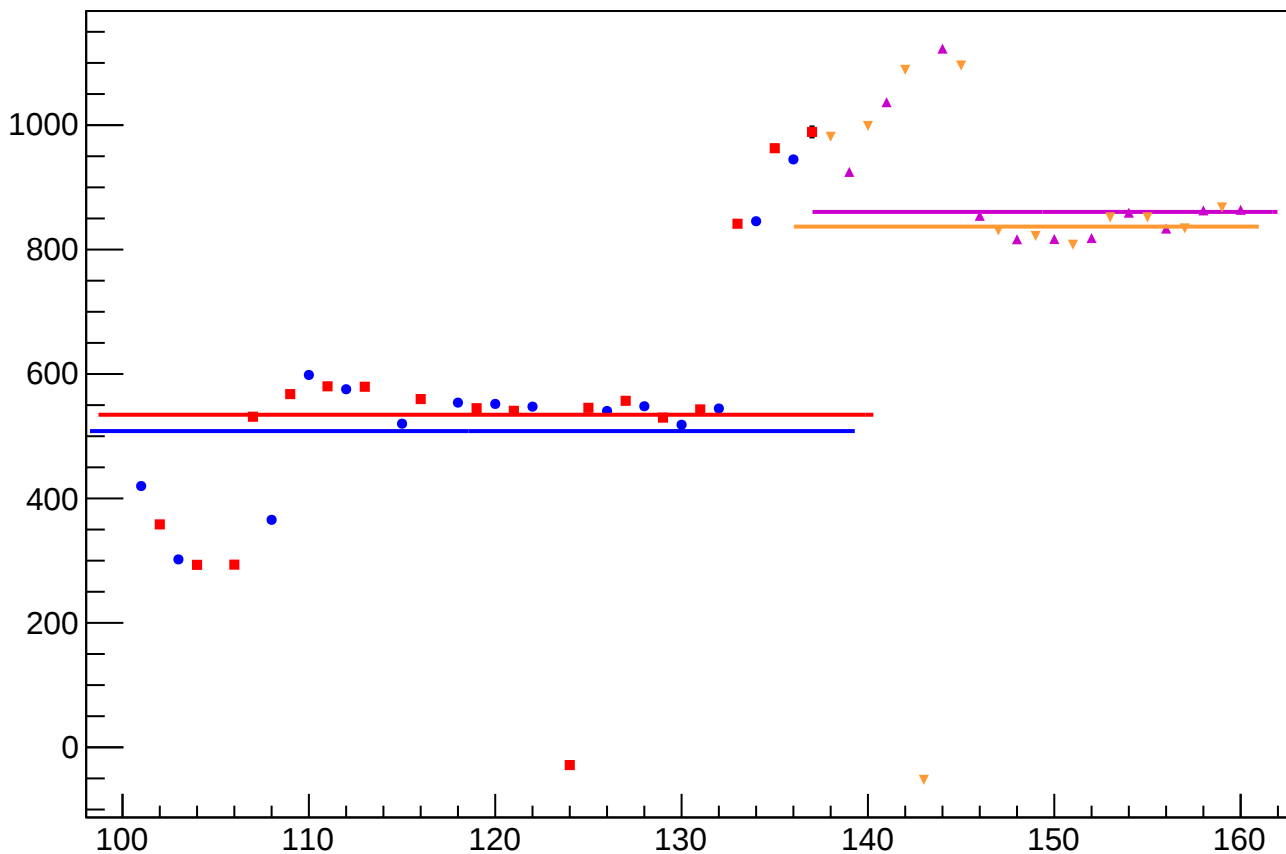
Right:  $-483.243 \pm 0.145$   $\chi^2/\text{NDF}: 923680.3/32$

In:  $-759.762 \pm 0.156$   $\chi^2/\text{NDF}: 2730364.8/25$

Out:  $-667.964 \pm 0.144$   $\chi^2/\text{NDF}: 3605779.8/29$

All:  $-710.225 \pm 0.106$   $\chi^2/\text{NDF}: 6523821.8/55$

# dit\_atl2\_4eX\_slope vs Slug, Sign Corrected



Right In: 508.267 $\pm$ 0.222  $\chi^2$ /NDF: 439489.9/14

Left Out: 836.915 $\pm$ 0.185  $\chi^2$ /NDF: 413344.2/11

Right Out: 534.536 $\pm$ 0.217  $\chi^2$ /NDF: 368263.1/17

Left In: 860.546 $\pm$ 0.180  $\chi^2$ /NDF: 86301.7/10

Left: 849.012 $\pm$ 0.129  $\chi^2$ /NDF: 508036.6/22

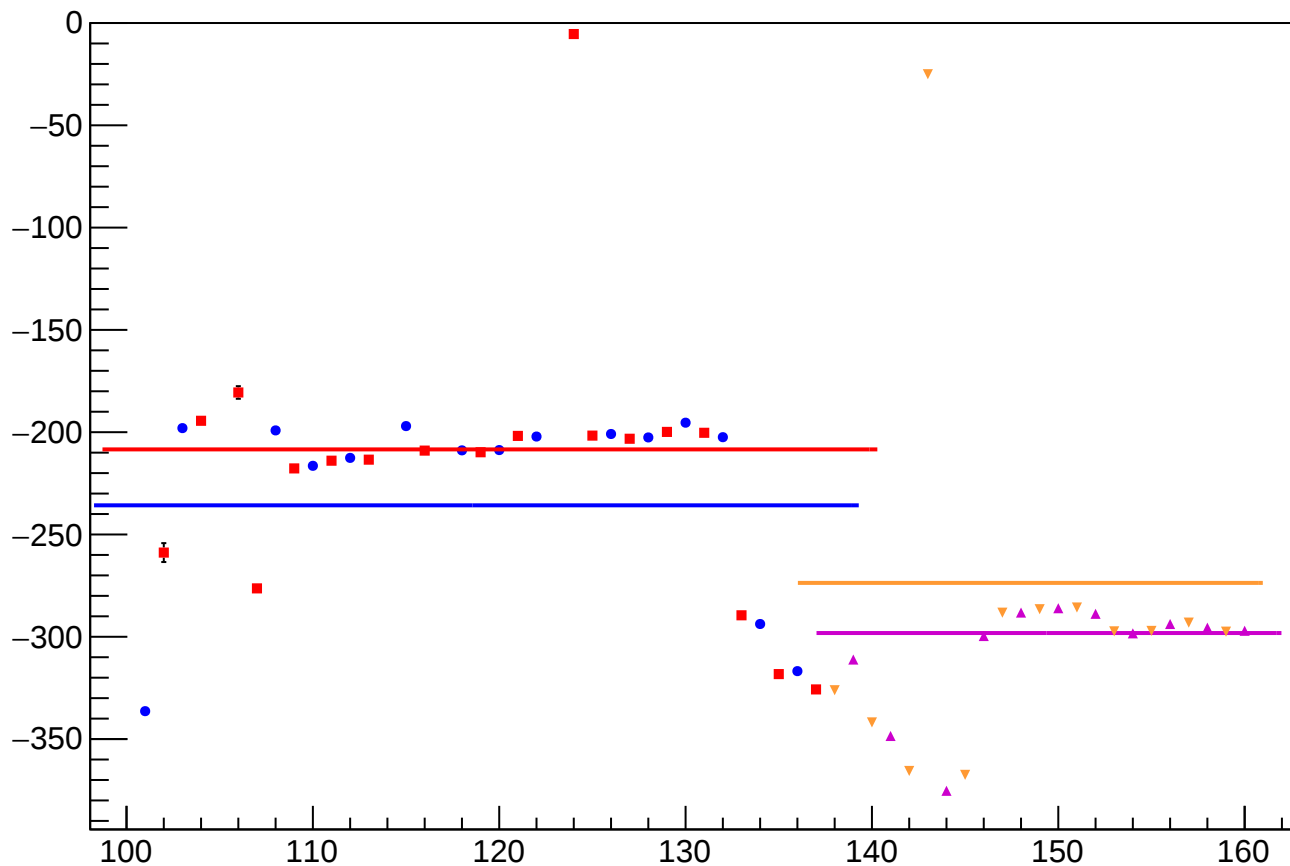
Right: 521.671 $\pm$ 0.155  $\chi^2$ /NDF: 814918.8/32

In: 720.347 $\pm$ 0.140  $\chi^2$ /NDF: 2046242.8/25

Out: 710.100 $\pm$ 0.141  $\chi^2$ /NDF: 1907174.0/29

All: 715.253 $\pm$ 0.099  $\chi^2$ /NDF: 3956086.1/55

# dit\_atl2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-235.748 \pm 0.055$   $\chi^2/\text{NDF}: 876219.5/14$

Left Out:  $-273.665 \pm 0.029$   $\chi^2/\text{NDF}: 6307524.3/11$

Right Out:  $-208.413 \pm 0.047$   $\chi^2/\text{NDF}: 375009.3/17$

Left In:  $-298.170 \pm 0.030$   $\chi^2/\text{NDF}: 227089.2/10$

Left:  $-285.391 \pm 0.021$   $\chi^2/\text{NDF}: 6882446.8/22$

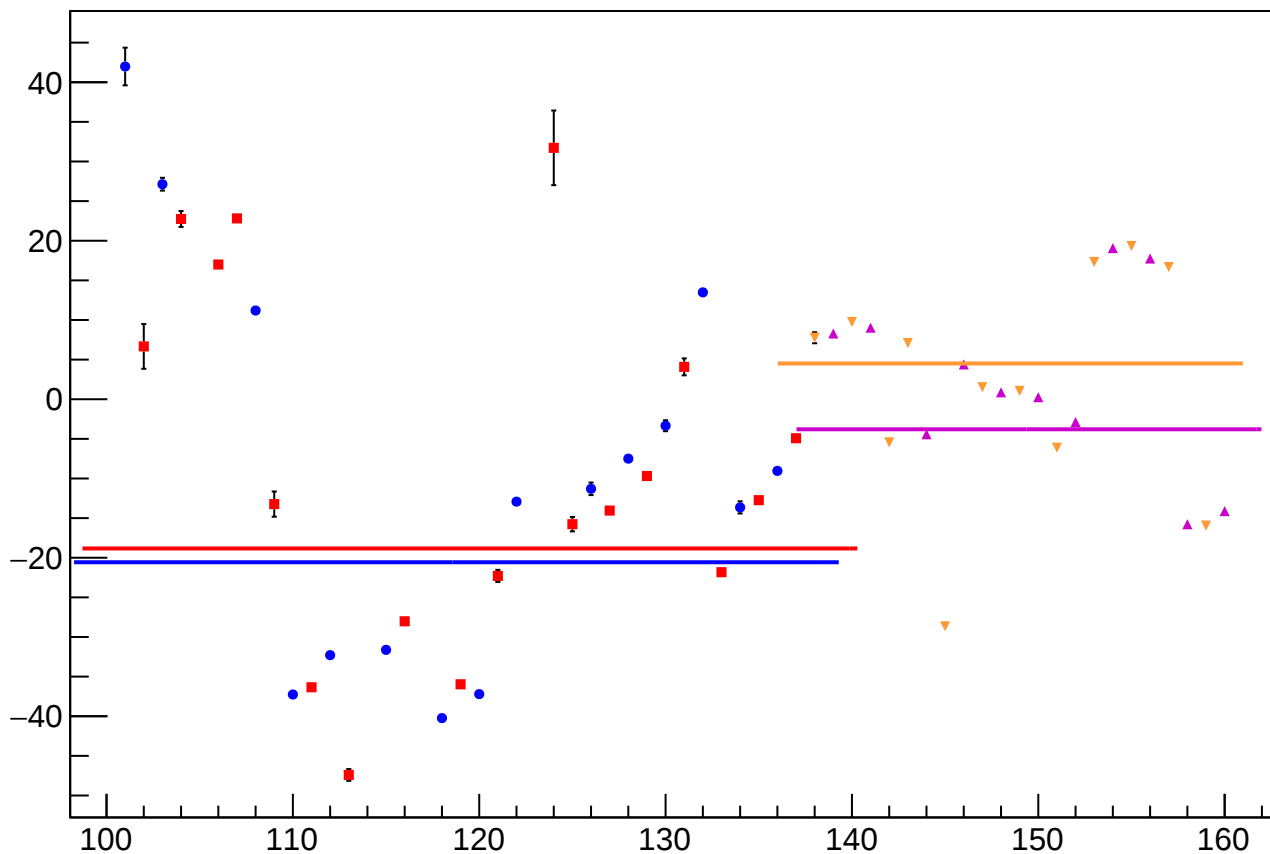
Right:  $-219.823 \pm 0.036$   $\chi^2/\text{NDF}: 1393978.3/32$

In:  $-283.942 \pm 0.026$   $\chi^2/\text{NDF}: 2089776.2/25$

Out:  $-255.762 \pm 0.024$   $\chi^2/\text{NDF}: 8096492.8/29$

All:  $-268.812 \pm 0.018$   $\chi^2/\text{NDF}: 10799690.7/5$

# dit\_atl2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-20.569 \pm 0.071$   $\chi^2/\text{NDF}$ : 63404.0/14

Left Out:  $4.515 \pm 0.032$   $\chi^2/\text{NDF}$ : 155751.7/11

Right Out:  $-18.831 \pm 0.108$   $\chi^2/\text{NDF}$ : 20855.1/17

Left In:  $-3.789 \pm 0.024$   $\chi^2/\text{NDF}$ : 261291.0/10

Left:  $-0.770 \pm 0.019$   $\chi^2/\text{NDF}$ : 459804.8/22

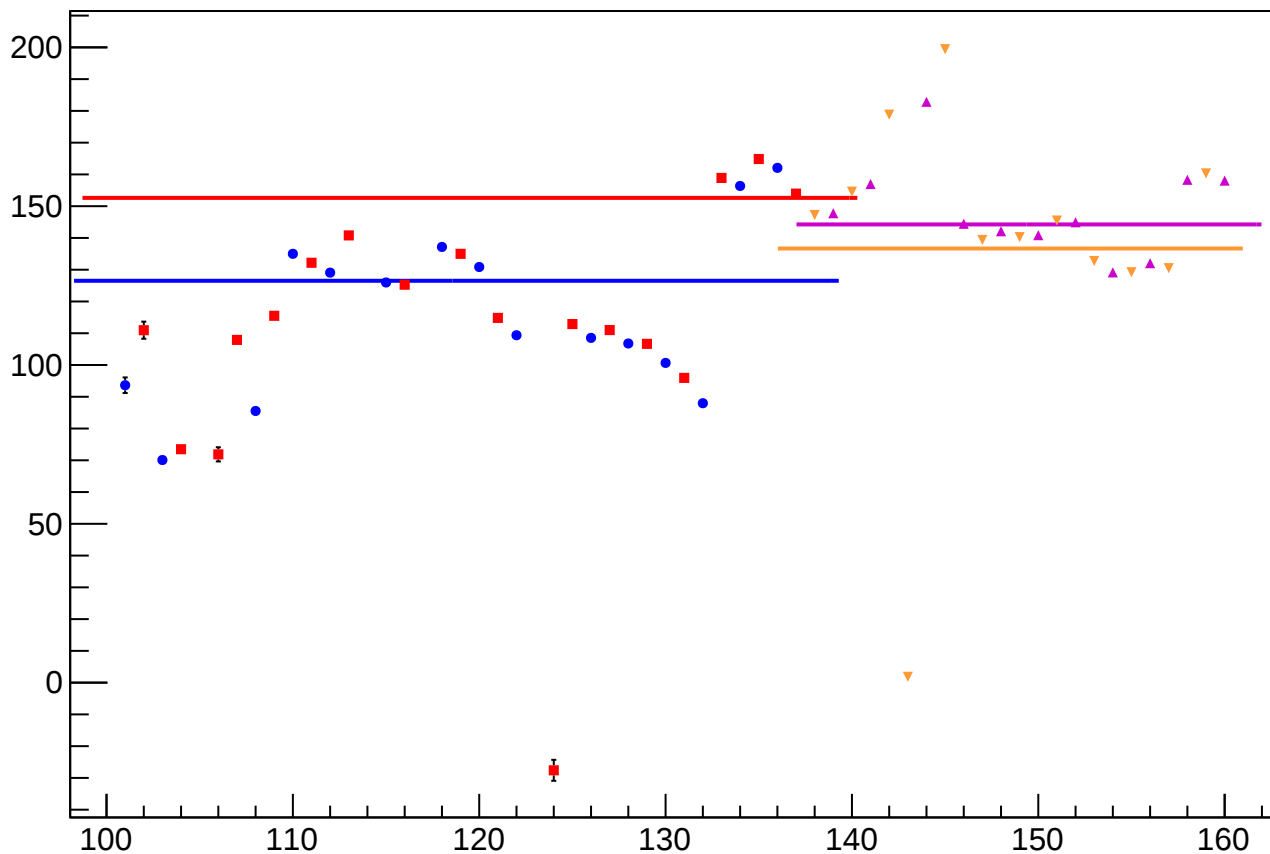
Right:  $-20.041 \pm 0.060$   $\chi^2/\text{NDF}$ : 84439.6/32

In:  $-5.523 \pm 0.023$   $\chi^2/\text{NDF}$ : 374306.6/25

Out:  $2.627 \pm 0.031$   $\chi^2/\text{NDF}$ : 219550.2/29

All:  $-2.606 \pm 0.018$   $\chi^2/\text{NDF}$ : 639064.7/55

# dit\_atl2\_4eY\_slope vs Slug, Sign Corrected



Right In: 126.517 $\pm$ 0.084  $\chi^2$ /NDF: 114967.3/14

Left Out: 136.678 $\pm$ 0.042  $\chi^2$ /NDF:440229.7/11

Right Out: 152.620 $\pm$ 0.030  $\chi^2$ /NDF: 74022.9/17

Left In: 144.256 $\pm$ 0.033  $\chi^2$ /NDF:117757.7/10

Left: 141.320 $\pm$ 0.026  $\chi^2$ /NDF: 578215.6/22

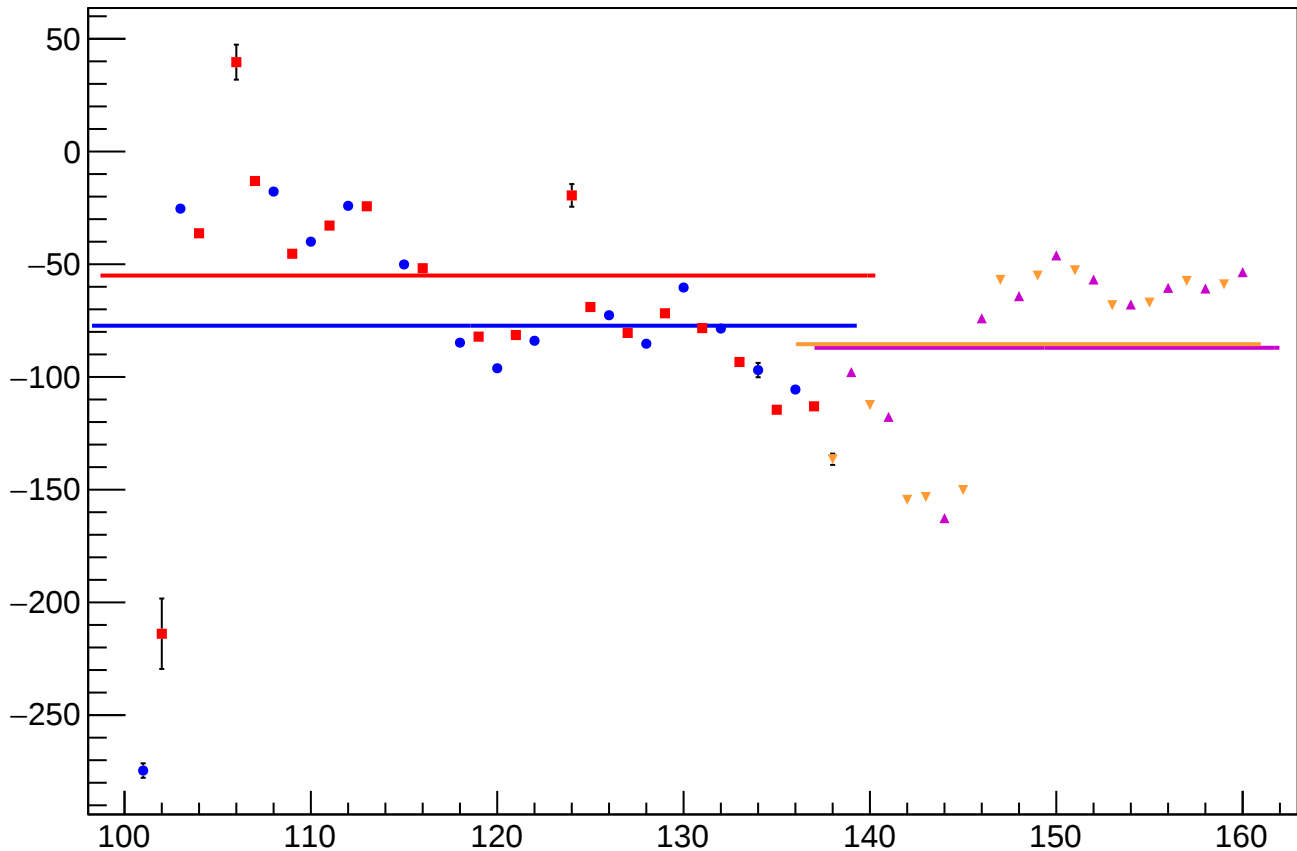
Right: 149.605 $\pm$ 0.029  $\chi^2$ /NDF: 274404.9/32

In: 141.863 $\pm$ 0.031  $\chi^2$ /NDF:271307.4/25

Out: 147.099 $\pm$ 0.025  $\chi^2$ /NDF:609788.4/29

All: 145.070 $\pm$ 0.019  $\chi^2$ /NDF: 898737.4/55

# dit\_atr1\_4aX\_slope vs Slug, Sign Corrected



Right In:  $-77.260 \pm 0.146$   $\chi^2/\text{NDF}$ : 30356.0/14

Left Out:  $-85.467 \pm 0.165$   $\chi^2/\text{NDF}$ : 53319.9/11

Right Out:  $-55.005 \pm 0.190$   $\chi^2/\text{NDF}$ : 23629.0/17

Left In:  $-87.048 \pm 0.161$   $\chi^2/\text{NDF}$ : 53029.0/10

Left:  $-86.275 \pm 0.115$   $\chi^2/\text{NDF}$ : 106395.9/22

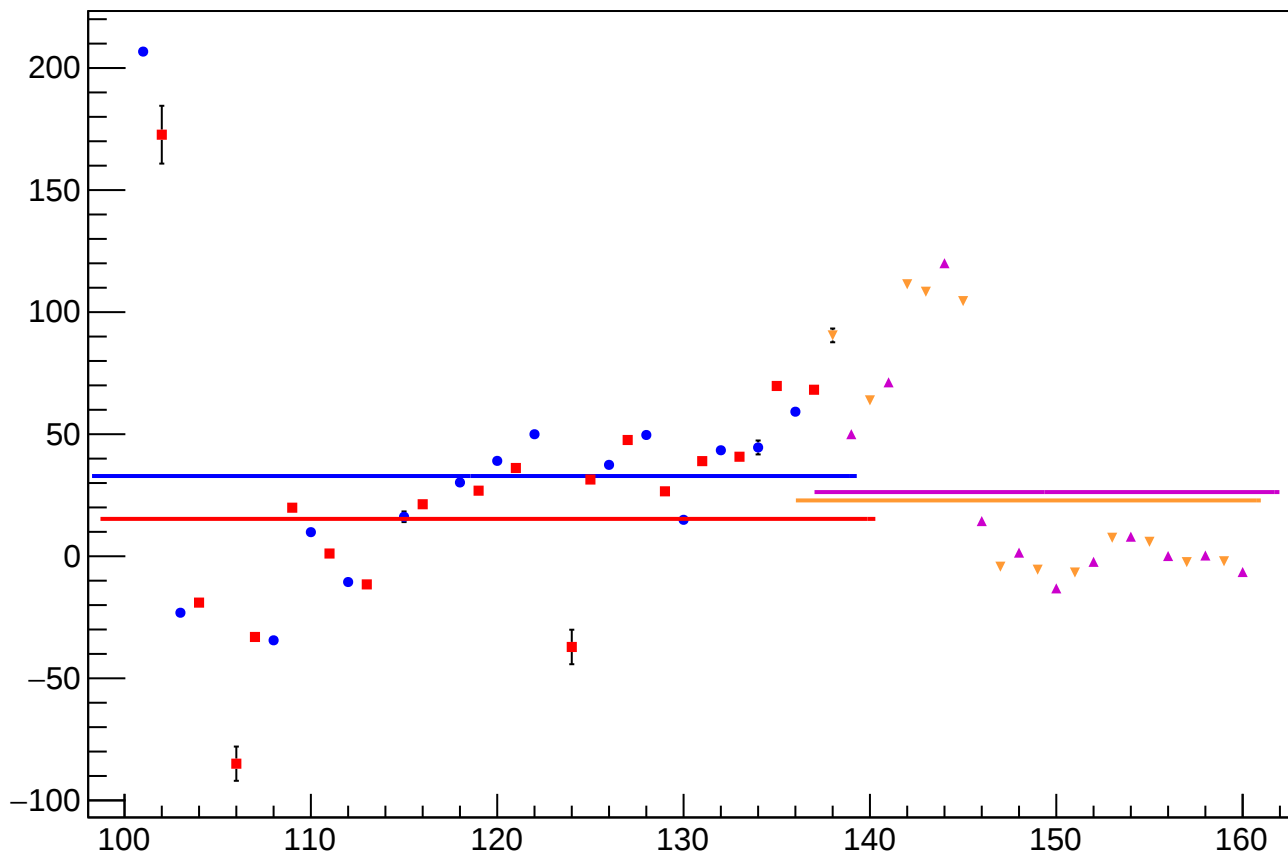
Right:  $-68.980 \pm 0.116$   $\chi^2/\text{NDF}$ : 62576.3/32

In:  $-81.681 \pm 0.108$   $\chi^2/\text{NDF}$ : 85402.5/25

Out:  $-72.403 \pm 0.125$   $\chi^2/\text{NDF}$ : 91589.3/29

All:  $-77.682 \pm 0.082$   $\chi^2/\text{NDF}$ : 180146.4/55

# dit\_atr1\_4eX\_slope vs Slug, Sign Corrected



Right In: 32.869 $\pm$ 0.146  $\chi^2$ /NDF: 31393.7/14

Left Out: 22.872 $\pm$ 0.143  $\chi^2$ /NDF: 85169.5/11

Right Out: 15.309 $\pm$ 0.210  $\chi^2$ /NDF: 16746.0/17

Left In: 26.292 $\pm$ 0.143  $\chi^2$ /NDF: 81416.1/10

Left: 24.588 $\pm$ 0.101  $\chi^2$ /NDF: 166872.0/22

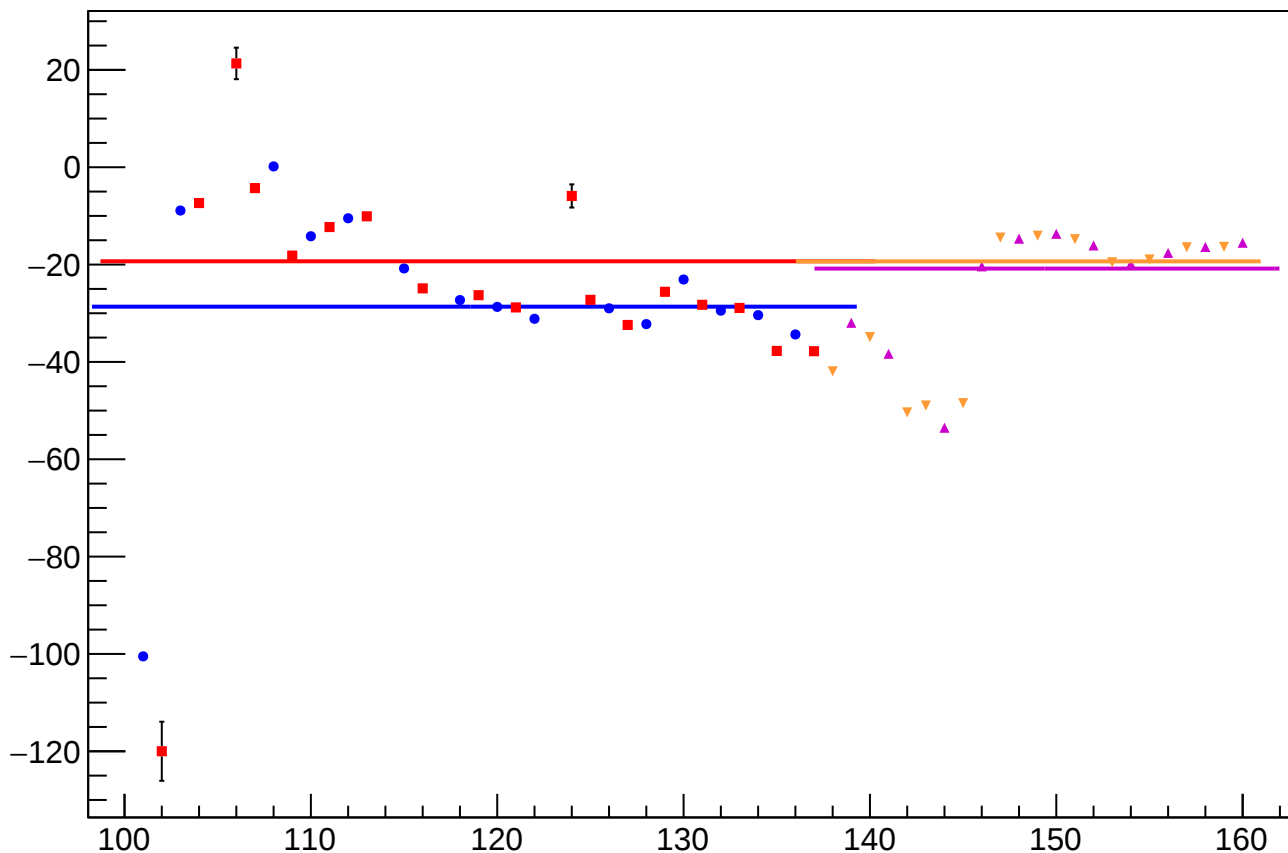
Right: 27.134 $\pm$ 0.120  $\chi^2$ /NDF: 52862.9/32

In: 29.504 $\pm$ 0.102  $\chi^2$ /NDF: 113847.7/25

Out: 20.467 $\pm$ 0.118  $\chi^2$ /NDF: 102802.9/29

All: 25.646 $\pm$ 0.077  $\chi^2$ /NDF: 219998.6/55

# dit\_atr1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-28.648 \pm 0.034$   $\chi^2/\text{NDF}$ : 113441.9/14

Left Out:  $-19.339 \pm 0.019$   $\chi^2/\text{NDF}$ : 214041.3/11

Right Out:  $-19.325 \pm 0.039$   $\chi^2/\text{NDF}$ : 56579.1/17

Left In:  $-20.821 \pm 0.020$   $\chi^2/\text{NDF}$ : 179918.7/10

Left:  $-20.015 \pm 0.014$   $\chi^2/\text{NDF}$ : 396810.0/22

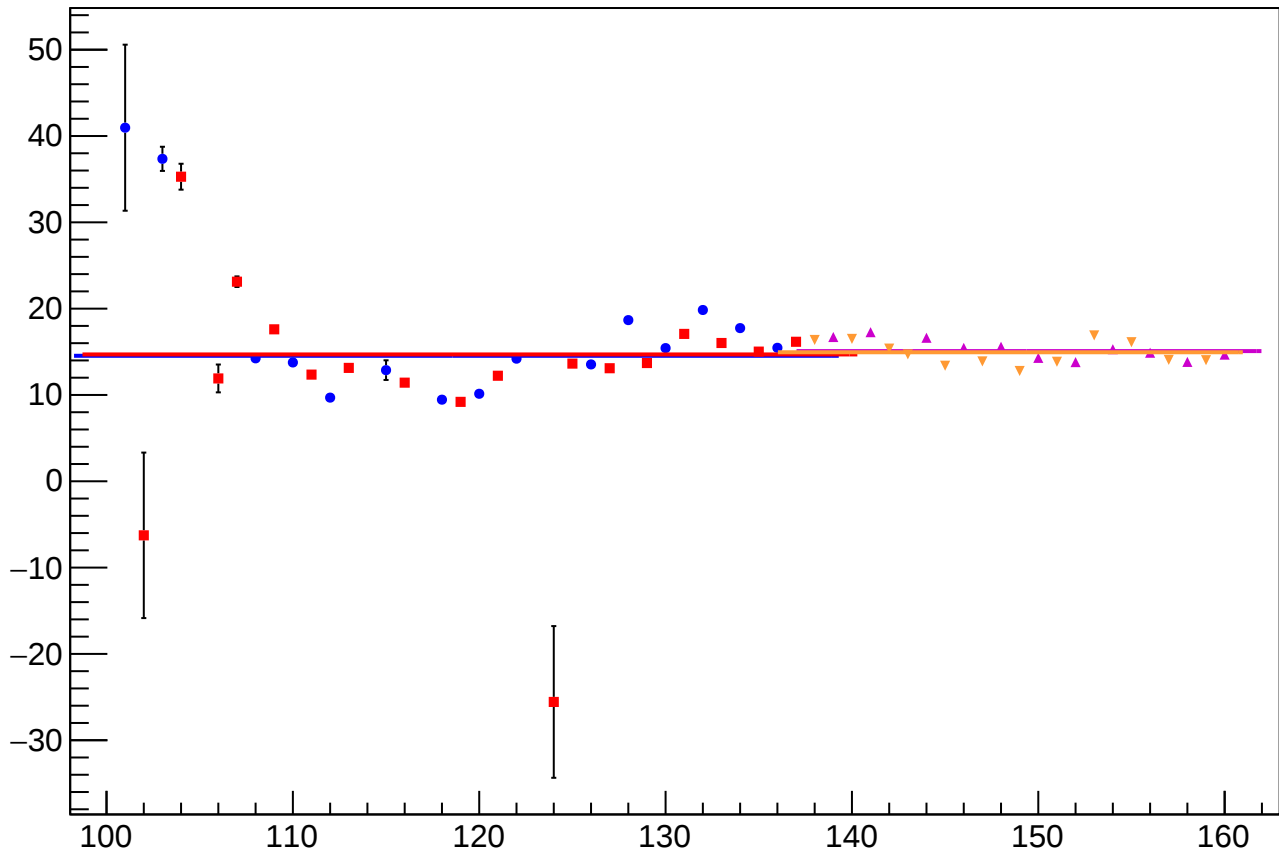
Right:  $-24.627 \pm 0.026$   $\chi^2/\text{NDF}$ : 201944.0/32

In:  $-22.881 \pm 0.018$   $\chi^2/\text{NDF}$ : 331800.6/25

Out:  $-19.337 \pm 0.017$   $\chi^2/\text{NDF}$ : 270620.5/29

All:  $-21.041 \pm 0.012$   $\chi^2/\text{NDF}$ : 623522.5/55

# dit\_atr1\_4aY\_slope vs Slug, Sign Corrected



Right In: 14.539+/-0.030  $\chi^2/\text{NDF}$ : 12071.8/14

Left Out: 14.947+/-0.020  $\chi^2/\text{NDF}$ : 4794.9/11

Right Out: 14.695+/-0.044  $\chi^2/\text{NDF}$ : 1633.0/17

Left In: 15.082+/-0.018  $\chi^2/\text{NDF}$ : 3476.8/10

Left: 15.020+/-0.013  $\chi^2/\text{NDF}$ : 8297.4/22

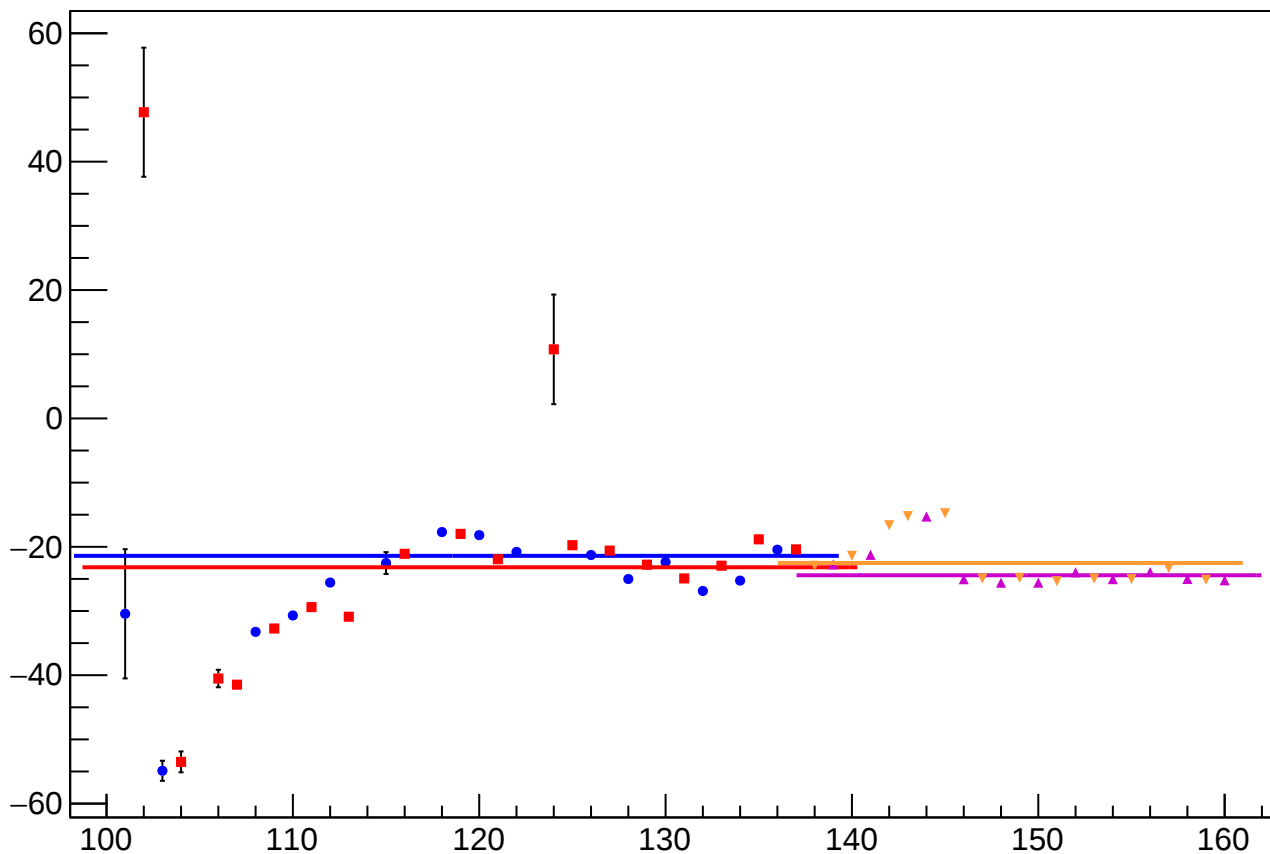
Right: 14.589+/-0.025  $\chi^2/\text{NDF}$ : 13713.5/32

In: 14.937+/-0.015  $\chi^2/\text{NDF}$ : 15792.0/25

Out: 14.905+/-0.018  $\chi^2/\text{NDF}$ : 6455.9/29

All: 14.923+/-0.012  $\chi^2/\text{NDF}$ : 22249.8/55

# dit\_atr1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-21.406 \pm 0.036$   $\chi^2/\text{NDF}: 9686.6/14$

Left Out:  $-22.521 \pm 0.023$   $\chi^2/\text{NDF}: 26738.5/11$

Right Out:  $-23.186 \pm 0.051$   $\chi^2/\text{NDF}: 9126.8/17$

Left In:  $-24.432 \pm 0.020$   $\chi^2/\text{NDF}: 7685.3/10$

Left:  $-23.612 \pm 0.015$   $\chi^2/\text{NDF}: 38220.9/22$

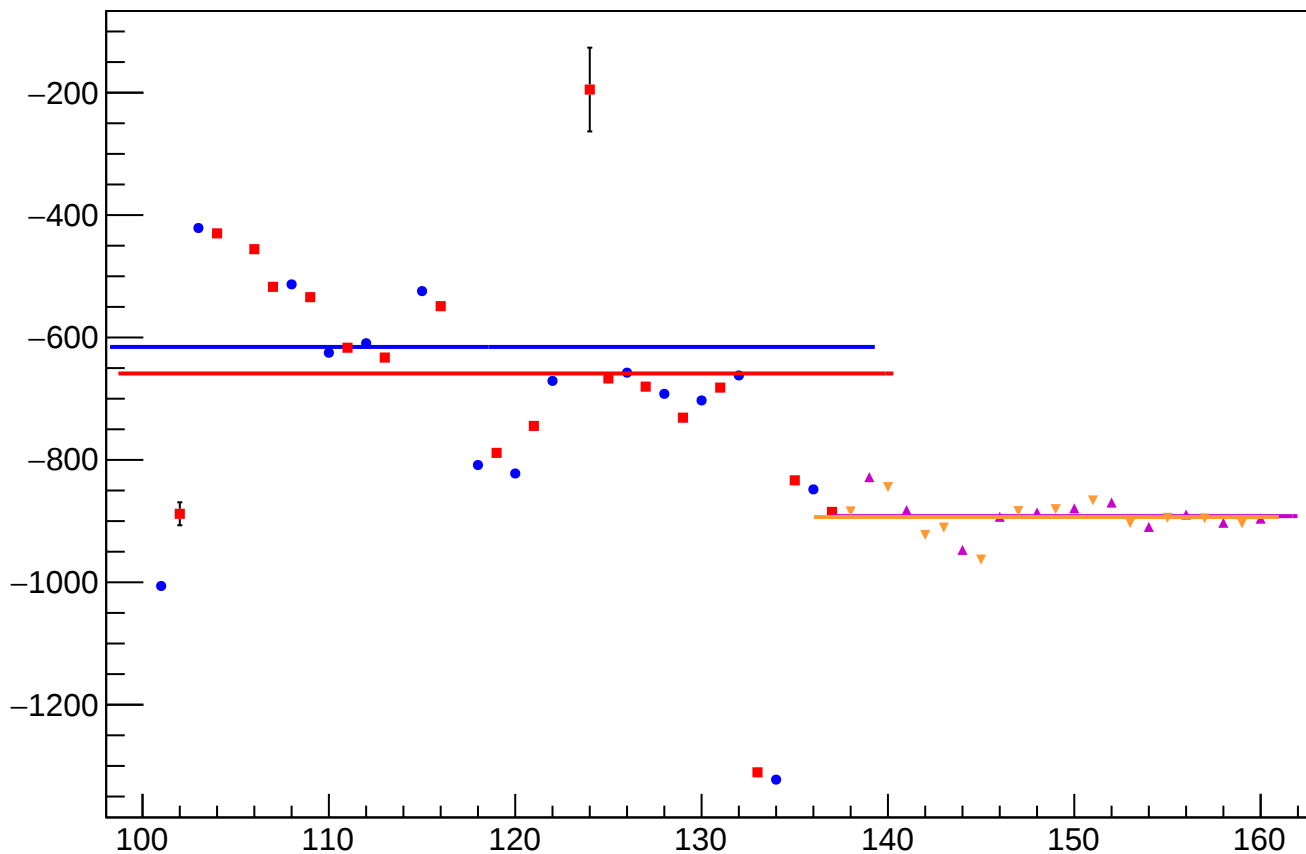
Right:  $-21.987 \pm 0.029$   $\chi^2/\text{NDF}: 19630.5/32$

In:  $-23.688 \pm 0.018$   $\chi^2/\text{NDF}: 22828.0/25$

Out:  $-22.637 \pm 0.021$   $\chi^2/\text{NDF}: 36005.1/29$

All:  $-23.260 \pm 0.014$   $\chi^2/\text{NDF}: 60278.7/55$

# dit\_atr2\_4aX\_slope vs Slug, Sign Corrected



Right In: -615.419+/-0.238  $\chi^2/\text{NDF}$ : 382819.1/14

Left Out: -893.347+/-0.183  $\chi^2/\text{NDF}$ : 11780.2/11

Right Out: -658.787+/-0.256  $\chi^2/\text{NDF}$ : 385262.6/17

Left In: -891.877+/-0.159  $\chi^2/\text{NDF}$ : 13057.4/10

Left: -892.510+/-0.120  $\chi^2/\text{NDF}$ : 24874.6/22

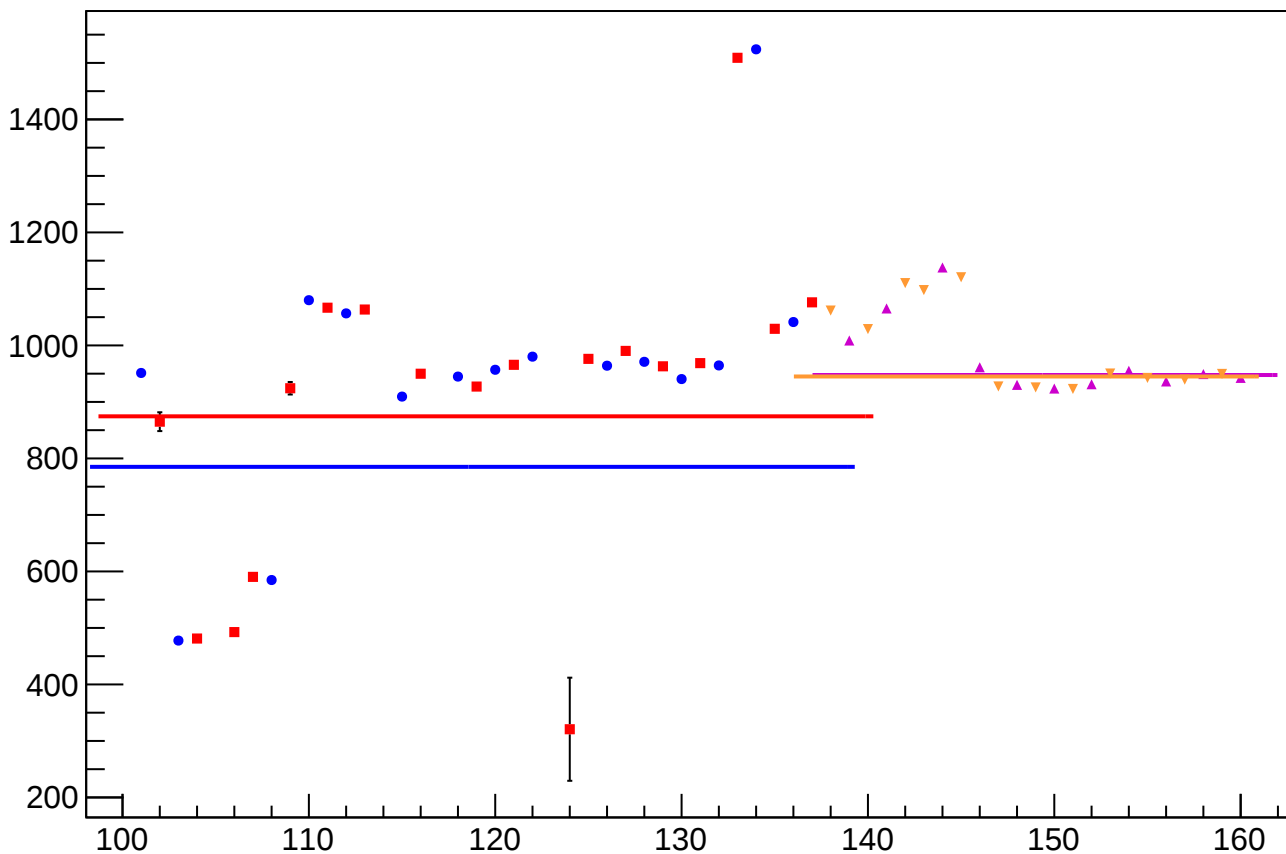
Right: -635.464+/-0.174  $\chi^2/\text{NDF}$ : 783480.4/32

In: -806.611+/-0.132  $\chi^2/\text{NDF}$ : 1332138.3/25

Out: -814.426+/-0.149  $\chi^2/\text{NDF}$ : 952802.0/29

All: -810.054+/-0.099  $\chi^2/\text{NDF}$ : 2286485.9/55

# dit\_atr2\_4eX\_slope vs Slug, Sign Corrected



Right In: 785.095+/-0.228  $\chi^2/\text{NDF}$ : 886147.1/14

Left Out: 945.018+/-0.148  $\chi^2/\text{NDF}$ : 68151.7/11

Right Out: 874.516+/-0.261  $\chi^2/\text{NDF}$ : 842565.5/17

Left In: 947.623+/-0.131  $\chi^2/\text{NDF}$ : 73913.6/10

Left: 946.476+/-0.098  $\chi^2/\text{NDF}$ : 142238.5/22

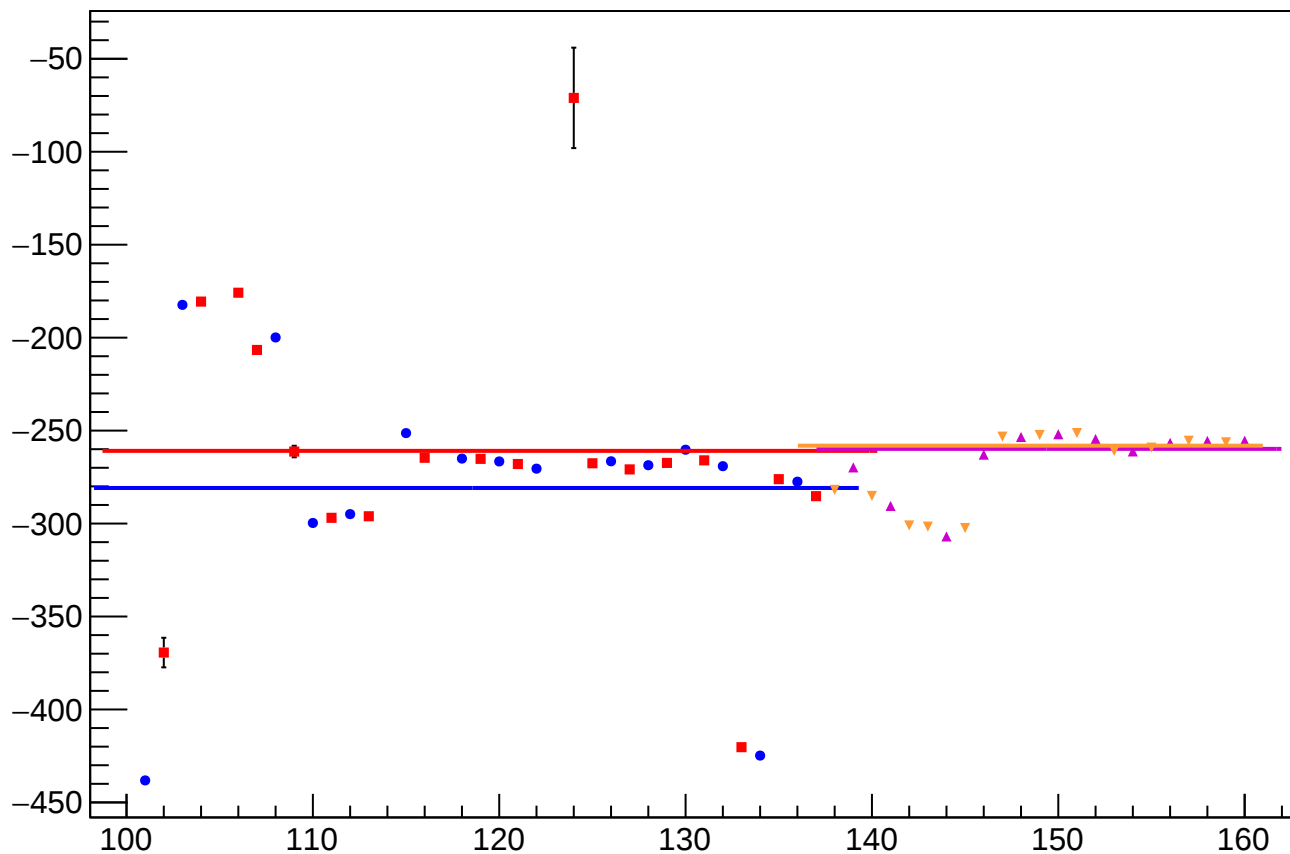
Right: 823.762+/-0.172  $\chi^2/\text{NDF}$ : 1795202.4/32

In: 907.133+/-0.114  $\chi^2/\text{NDF}$ : 1341482.6/25

Out: 927.870+/-0.129  $\chi^2/\text{NDF}$ : 965826.6/29

All: 916.222+/-0.085  $\chi^2/\text{NDF}$ : 2321858.2/55

# dit\_atr2\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $-280.856 \pm 0.059$   $\chi^2/\text{NDF}: 873611.1/14$

Left Out:  $-258.099 \pm 0.024$   $\chi^2/\text{NDF}: 156915.2/11$

Right Out:  $-260.897 \pm 0.068$   $\chi^2/\text{NDF}: 347717.5/17$

Left In:  $-259.824 \pm 0.024$   $\chi^2/\text{NDF}: 177344.6/10$

Left:  $-258.983 \pm 0.017$   $\chi^2/\text{NDF}: 336853.6/22$

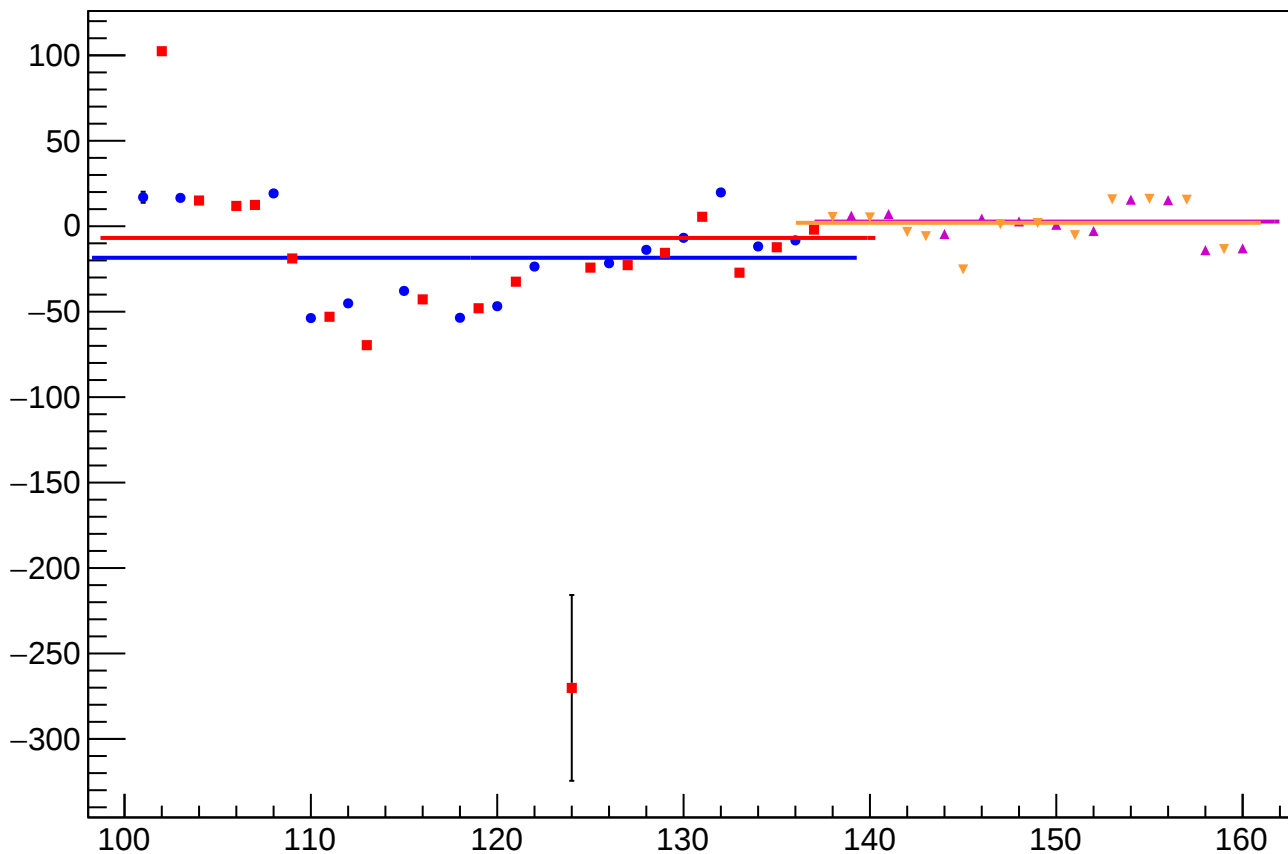
Right:  $-272.298 \pm 0.044$   $\chi^2/\text{NDF}: 1271185.3/32$

In:  $-262.775 \pm 0.022$   $\chi^2/\text{NDF}: 1161955.3/25$

Out:  $-258.418 \pm 0.023$   $\chi^2/\text{NDF}: 506152.1/29$

All:  $-260.685 \pm 0.016$   $\chi^2/\text{NDF}: 1687050.3/55$

# dit\_atr2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-18.452 \pm 0.091$   $\chi^2/\text{NDF}: 46574.6/14$

Left Out:  $2.003 \pm 0.029$   $\chi^2/\text{NDF}: 188560.3/11$

Right Out:  $-6.843 \pm 0.065$   $\chi^2/\text{NDF}: 50023.0/17$

Left In:  $2.723 \pm 0.023$   $\chi^2/\text{NDF}: 256026.4/10$

Left:  $2.437 \pm 0.018$   $\chi^2/\text{NDF}: 444960.2/22$

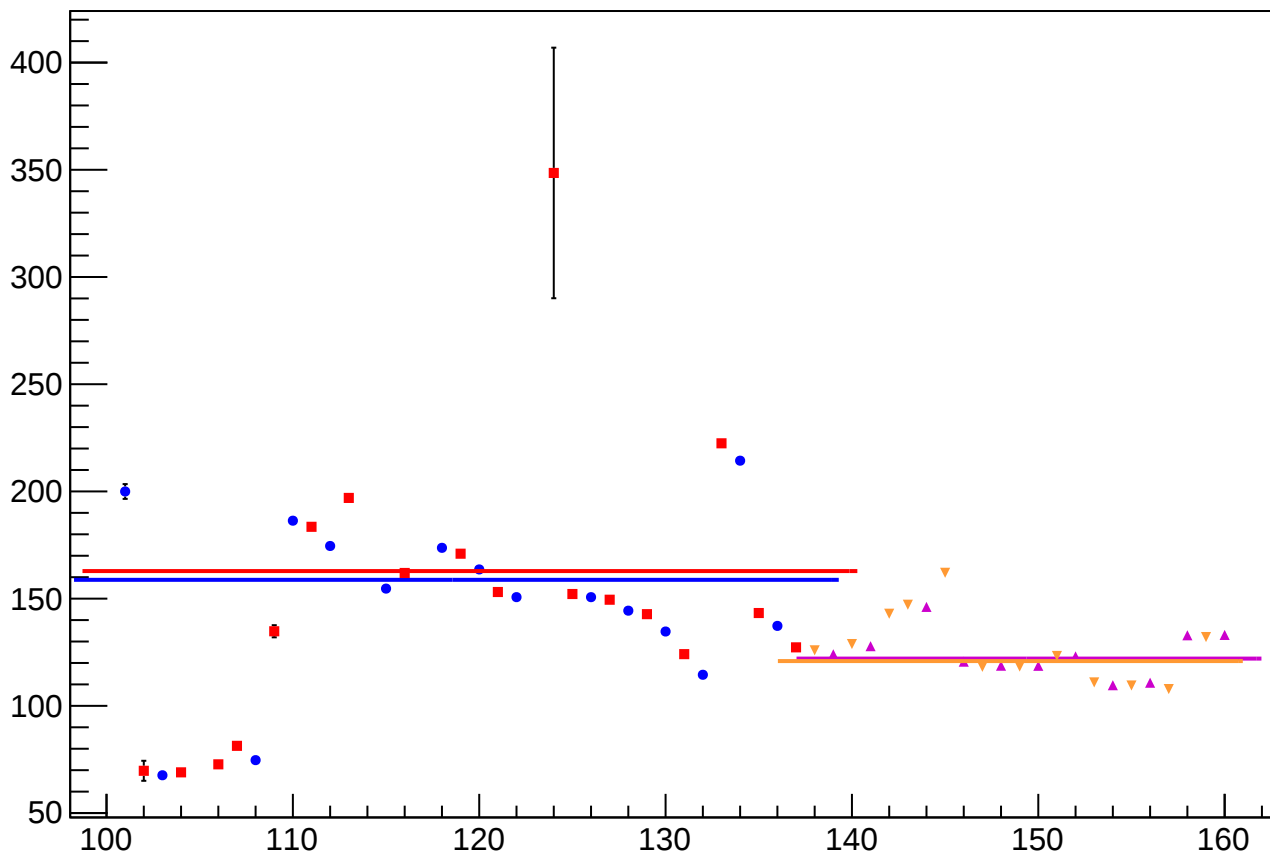
Right:  $-10.715 \pm 0.053$   $\chi^2/\text{NDF}: 107378.5/32$

In:  $1.409 \pm 0.023$   $\chi^2/\text{NDF}: 353085.2/25$

Out:  $0.525 \pm 0.026$   $\chi^2/\text{NDF}: 254215.5/29$

All:  $1.032 \pm 0.017$   $\chi^2/\text{NDF}: 607944.1/55$

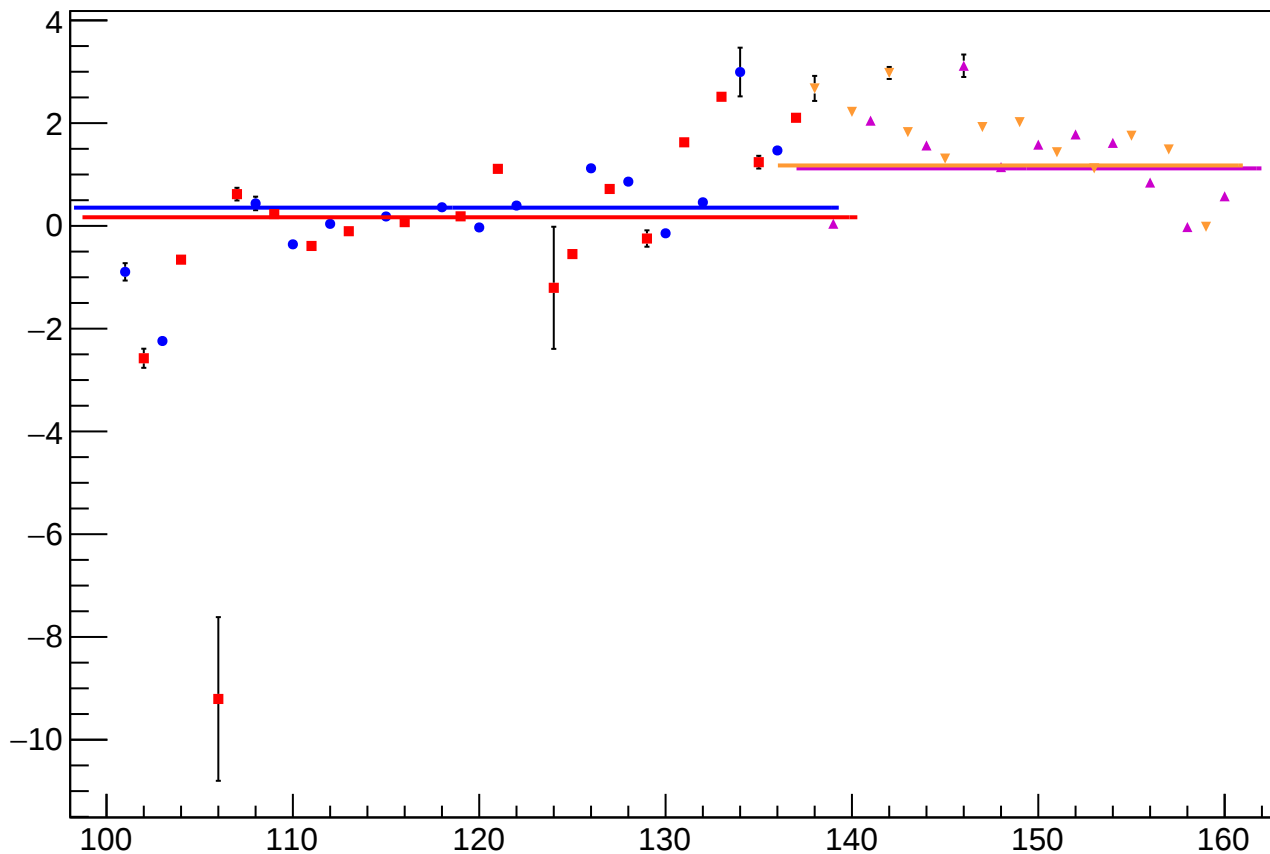
# dit\_atr2\_4eY\_slope vs Slug, Sign Corrected



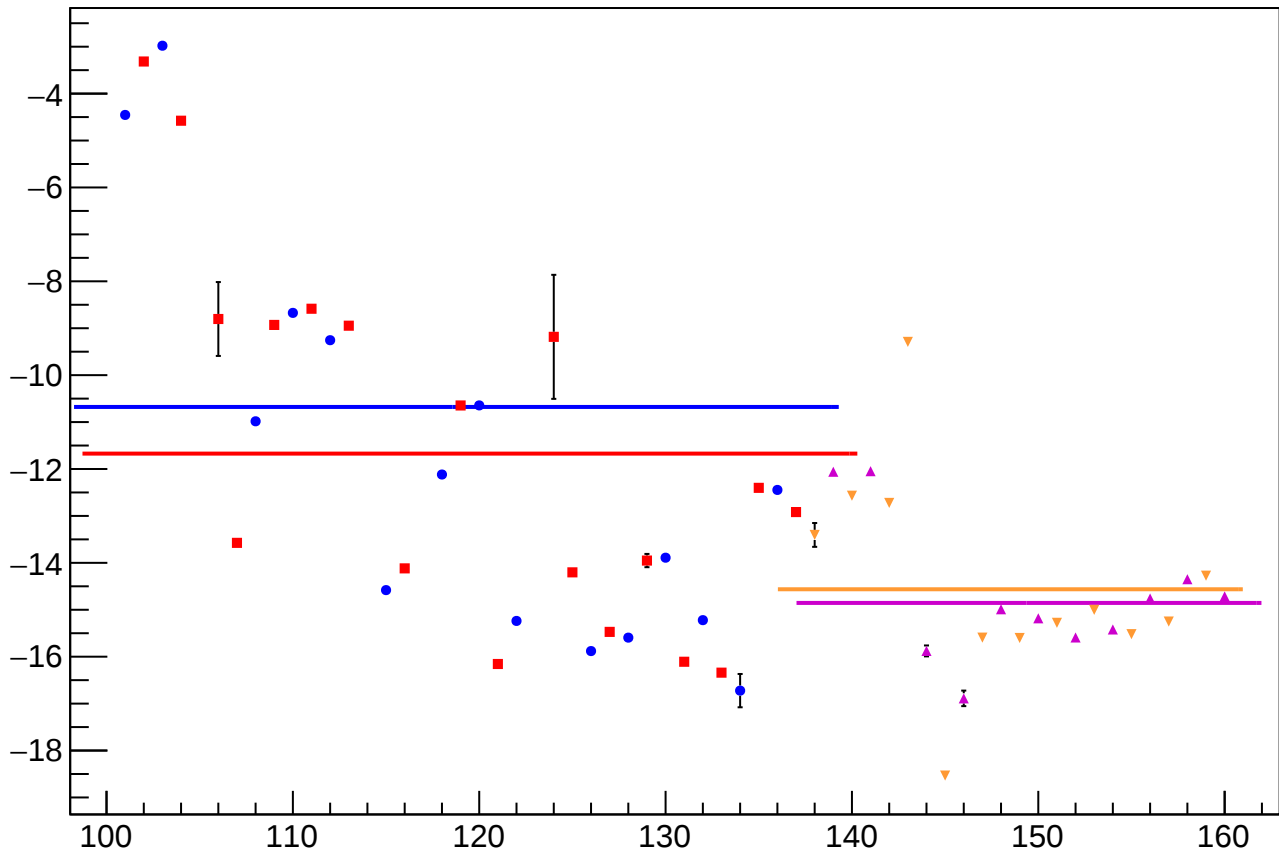
Right In: 158.772 $\pm$ 0.088  $\chi^2/\text{NDF}$ : 159016.5/14  
 Left Out: 120.881 $\pm$ 0.034  $\chi^2/\text{NDF}$ :103076.4/11  
 Right Out: 162.856 $\pm$ 0.093  $\chi^2/\text{NDF}$ : 156176.8/17  
 Left In: 122.041 $\pm$ 0.030  $\chi^2/\text{NDF}$ :96135.3/10

Left: 121.536 $\pm$ 0.022  $\chi^2/\text{NDF}$ : 199879.9/22  
 Right: 160.702 $\pm$ 0.064  $\chi^2/\text{NDF}$ : 316204.3/32  
 In: 125.749 $\pm$ 0.028  $\chi^2/\text{NDF}$ :410694.7/25  
 Out: 125.736 $\pm$ 0.032  $\chi^2/\text{NDF}$ :438373.8/29  
 All: 125.743 $\pm$ 0.021  $\chi^2/\text{NDF}$ : 849068.6/55

# dit\_sam1\_4aX\_slope vs Slug, Sign Corrected



# dit\_sam1\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-10.678 \pm 0.010$   $\chi^2/\text{NDF}: 226791.0/14$

Left Out:  $-14.563 \pm 0.010$   $\chi^2/\text{NDF}: 29242.1/11$

Right Out:  $-11.672 \pm 0.012$   $\chi^2/\text{NDF}: 107844.6/17$

Left In:  $-14.854 \pm 0.008$   $\chi^2/\text{NDF}: 11372.0/10$

Left:  $-14.746 \pm 0.006$   $\chi^2/\text{NDF}: 41101.3/22$

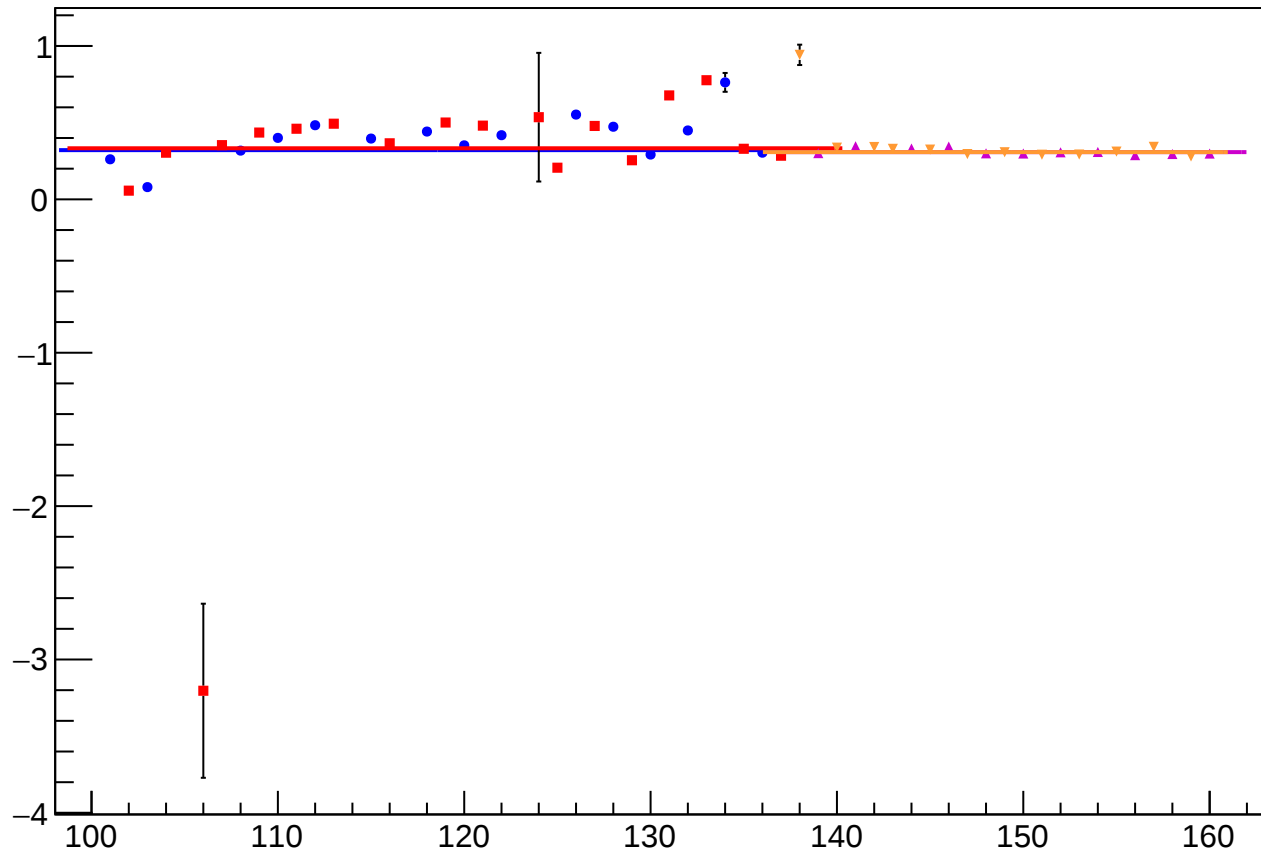
Right:  $-11.113 \pm 0.008$   $\chi^2/\text{NDF}: 338735.1/32$

In:  $-13.272 \pm 0.006$   $\chi^2/\text{NDF}: 340737.5/25$

Out:  $-13.272 \pm 0.008$   $\chi^2/\text{NDF}: 171213.6/29$

All:  $-13.272 \pm 0.005$   $\chi^2/\text{NDF}: 511951.1/55$

# dit\_sam1\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.321 \pm 0.001$   $\chi^2/\text{NDF}: 4017.7/14$

Left Out:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}: 3622.9/11$

Right Out:  $0.333 \pm 0.001$   $\chi^2/\text{NDF}: 4170.0/17$

Left In:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}: 1972.0/10$

Left:  $0.308 \pm 0.000$   $\chi^2/\text{NDF}: 5594.9/22$

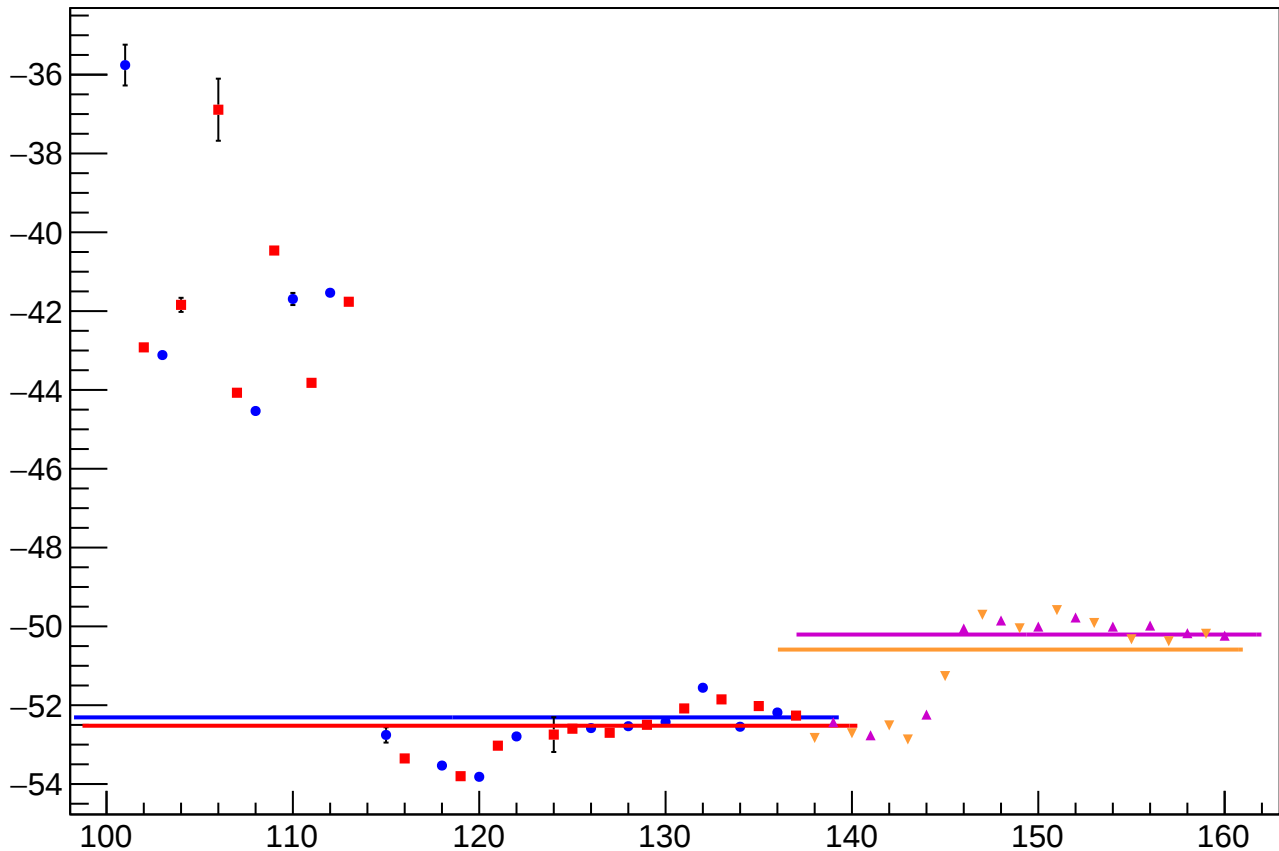
Right:  $0.325 \pm 0.001$   $\chi^2/\text{NDF}: 8247.8/32$

In:  $0.309 \pm 0.000$   $\chi^2/\text{NDF}: 6160.4/25$

Out:  $0.310 \pm 0.000$   $\chi^2/\text{NDF}: 8162.0/29$

All:  $0.310 \pm 0.000$   $\chi^2/\text{NDF}: 14324.0/55$

# dit\_sam1\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-52.309 \pm 0.004$   $\chi^2/\text{NDF}$ : 53459.2/14

Left Out:  $-50.588 \pm 0.003$   $\chi^2/\text{NDF}$ : 203435.6/11

Right Out:  $-52.521 \pm 0.005$   $\chi^2/\text{NDF}$ : 76616.3/17

Left In:  $-50.207 \pm 0.002$   $\chi^2/\text{NDF}$ : 154991.6/10

Left:  $-50.324 \pm 0.001$   $\chi^2/\text{NDF}$ : 374345.6/22

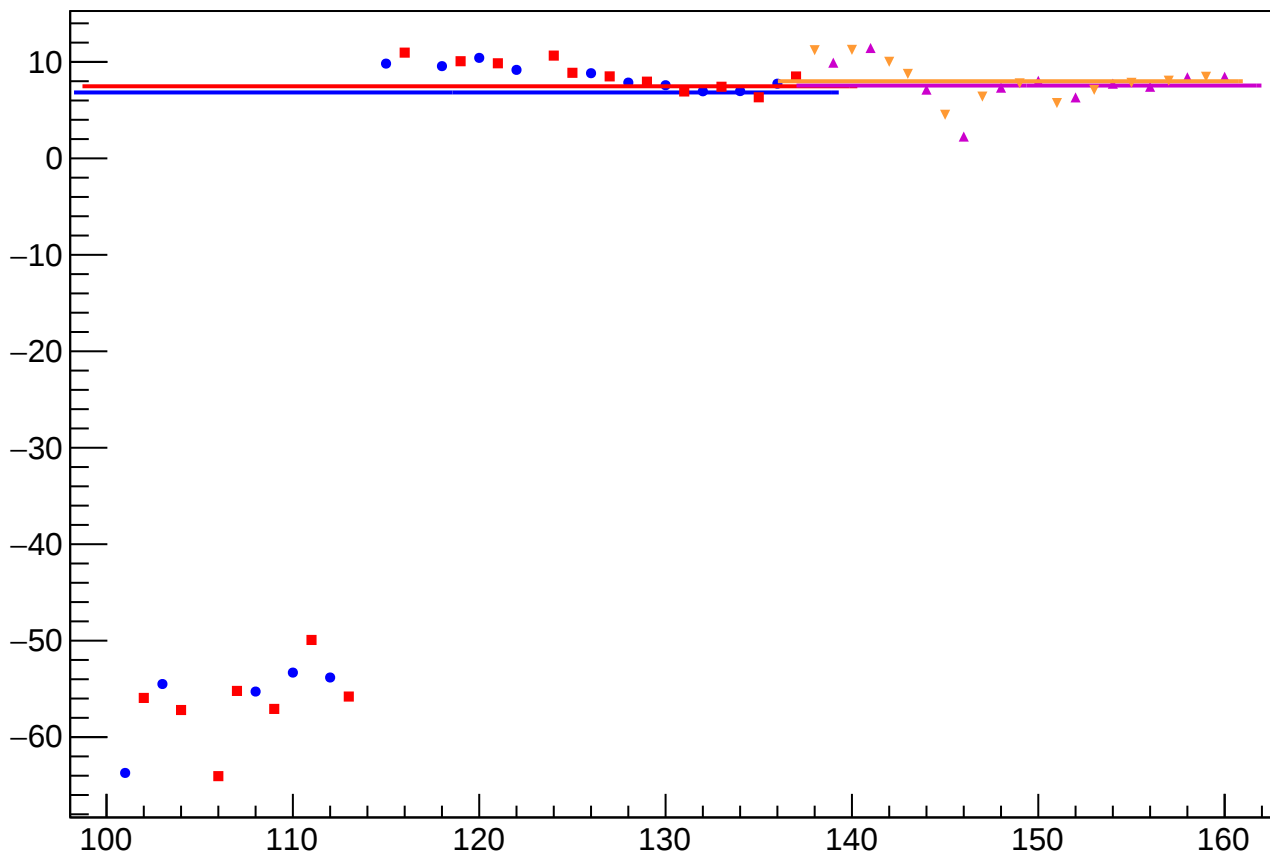
Right:  $-52.410 \pm 0.003$   $\chi^2/\text{NDF}$ : 131177.9/32

In:  $-50.471 \pm 0.002$   $\chi^2/\text{NDF}$ : 406802.7/25

Out:  $-51.033 \pm 0.002$   $\chi^2/\text{NDF}$ : 415627.3/29

All:  $-50.658 \pm 0.001$   $\chi^2/\text{NDF}$ : 865630.6/55

# dit\_sam1\_4eY\_slope vs Slug, Sign Corrected



Right In:  $6.834 \pm 0.005$   $\chi^2/\text{NDF}: 990576.4/14$

Left Out:  $7.997 \pm 0.005$   $\chi^2/\text{NDF}: 78028.3/11$

Right Out:  $7.474 \pm 0.009$   $\chi^2/\text{NDF}: 1195498.7/17$

Left In:  $7.551 \pm 0.004$   $\chi^2/\text{NDF}: 99330.2/10$

Left:  $7.724 \pm 0.003$   $\chi^2/\text{NDF}: 182824.6/22$

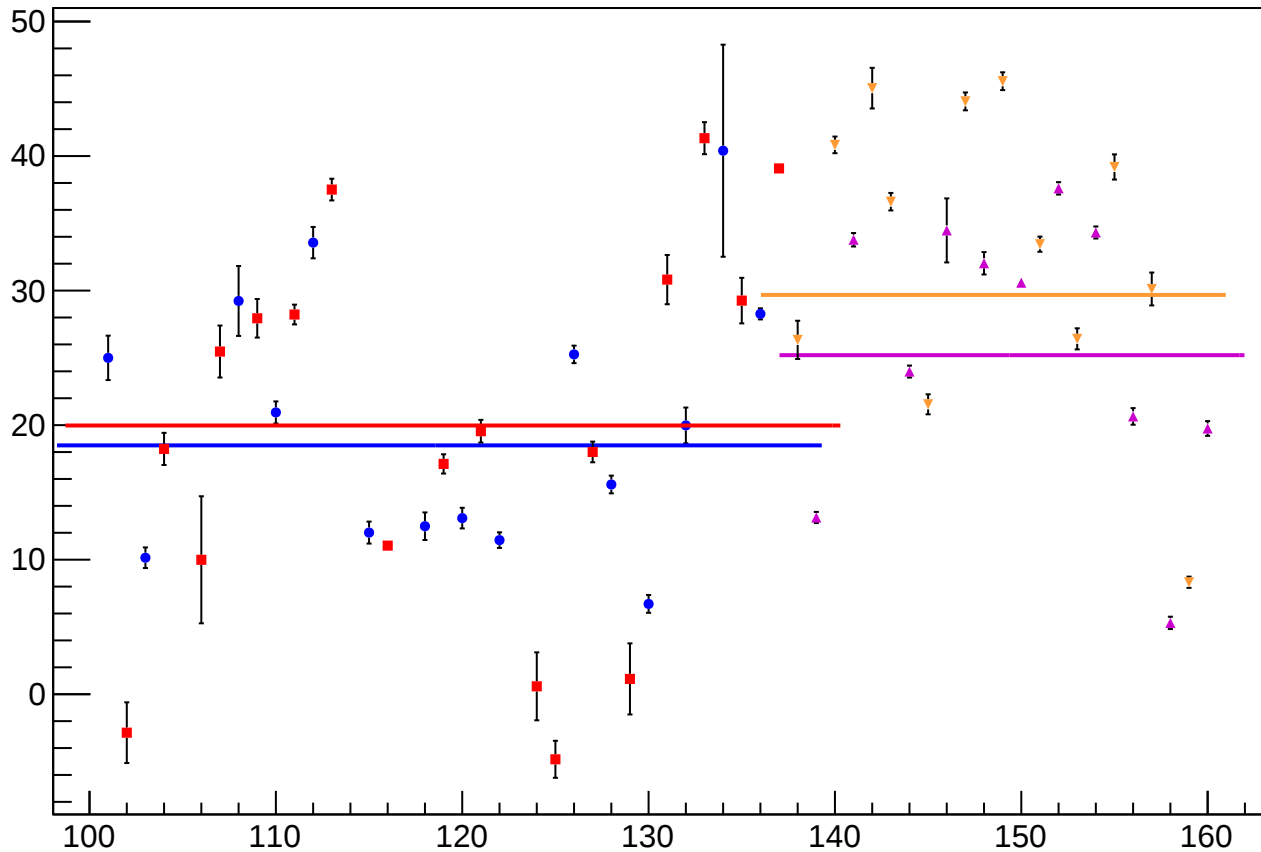
Right:  $6.980 \pm 0.004$   $\chi^2/\text{NDF}: 2189734.1/32$

In:  $7.295 \pm 0.003$   $\chi^2/\text{NDF}: 1102822.0/25$

Out:  $7.890 \pm 0.004$   $\chi^2/\text{NDF}: 1276044.4/29$

All:  $7.498 \pm 0.002$   $\chi^2/\text{NDF}: 2392043.1/55$

# dit\_sam2\_4aX\_slope vs Slug, Sign Corrected



Right In: 18.496+/-0.200  $\chi^2/\text{NDF}$ : 1636.7/14

Left Out: 29.678+/-0.202  $\chi^2/\text{NDF}$ : 4497.9/11

Right Out: 19.974+/-0.130  $\chi^2/\text{NDF}$ : 9201.3/17

Left In: 25.200+/-0.147  $\chi^2/\text{NDF}$ : 4679.5/10

Left: 26.752+/-0.119  $\chi^2/\text{NDF}$ : 9499.9/22

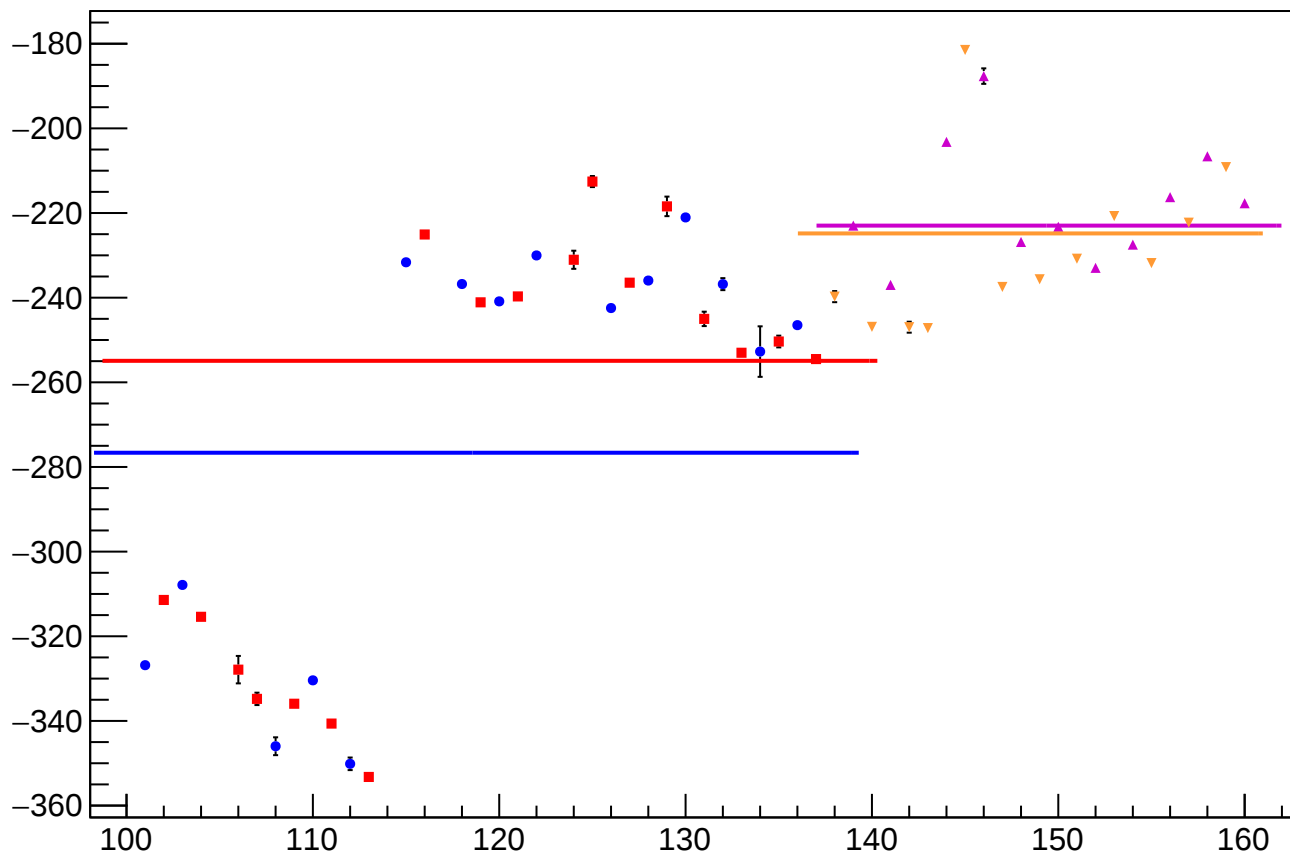
Right: 19.534+/-0.109  $\chi^2/\text{NDF}$ : 10876.3/32

In: 22.855+/-0.118  $\chi^2/\text{NDF}$ : 7046.3/25

Out: 22.830+/-0.109  $\chi^2/\text{NDF}$ : 15334.7/29

All: 22.841+/-0.080  $\chi^2/\text{NDF}$ : 22381.1/55

# dit\_sam2\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-276.636 \pm 0.148$   $\chi^2/\text{NDF}: 77119.6/14$

Left Out:  $-224.822 \pm 0.162$   $\chi^2/\text{NDF}: 13664.2/11$

Right Out:  $-254.921 \pm 0.071$   $\chi^2/\text{NDF}: 71945.8/17$

Left In:  $-222.976 \pm 0.126$   $\chi^2/\text{NDF}: 4692.7/10$

Left:  $-223.670 \pm 0.100$   $\chi^2/\text{NDF}: 18437.7/22$

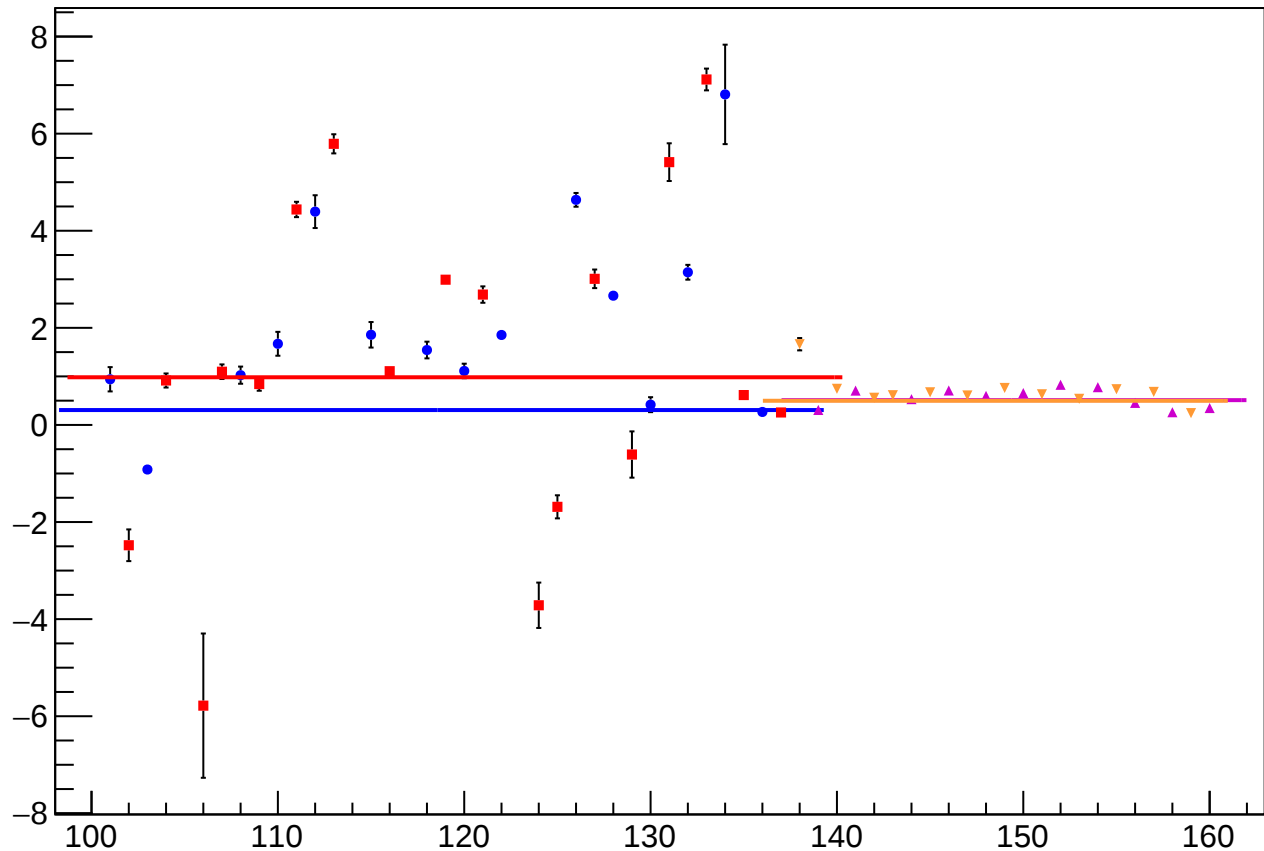
Right:  $-259.025 \pm 0.064$   $\chi^2/\text{NDF}: 166632.3/32$

In:  $-245.593 \pm 0.096$   $\chi^2/\text{NDF}: 158332.2/25$

Out:  $-250.061 \pm 0.065$   $\chi^2/\text{NDF}: 114444.1/29$

All:  $-248.646 \pm 0.054$   $\chi^2/\text{NDF}: 274262.6/55$

# dit\_sam2\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.307 $\pm$ 0.007  $\chi^2$ /NDF: 2787.0/14

Left Out: 0.498 $\pm$ 0.002  $\chi^2$ /NDF: 7499.6/11

Right Out: 0.982 $\pm$ 0.015  $\chi^2$ /NDF: 3374.7/17

Left In: 0.511 $\pm$ 0.002  $\chi^2$ /NDF: 12080.7/10

Left: 0.506 $\pm$ 0.002  $\chi^2$ /NDF: 19595.9/22

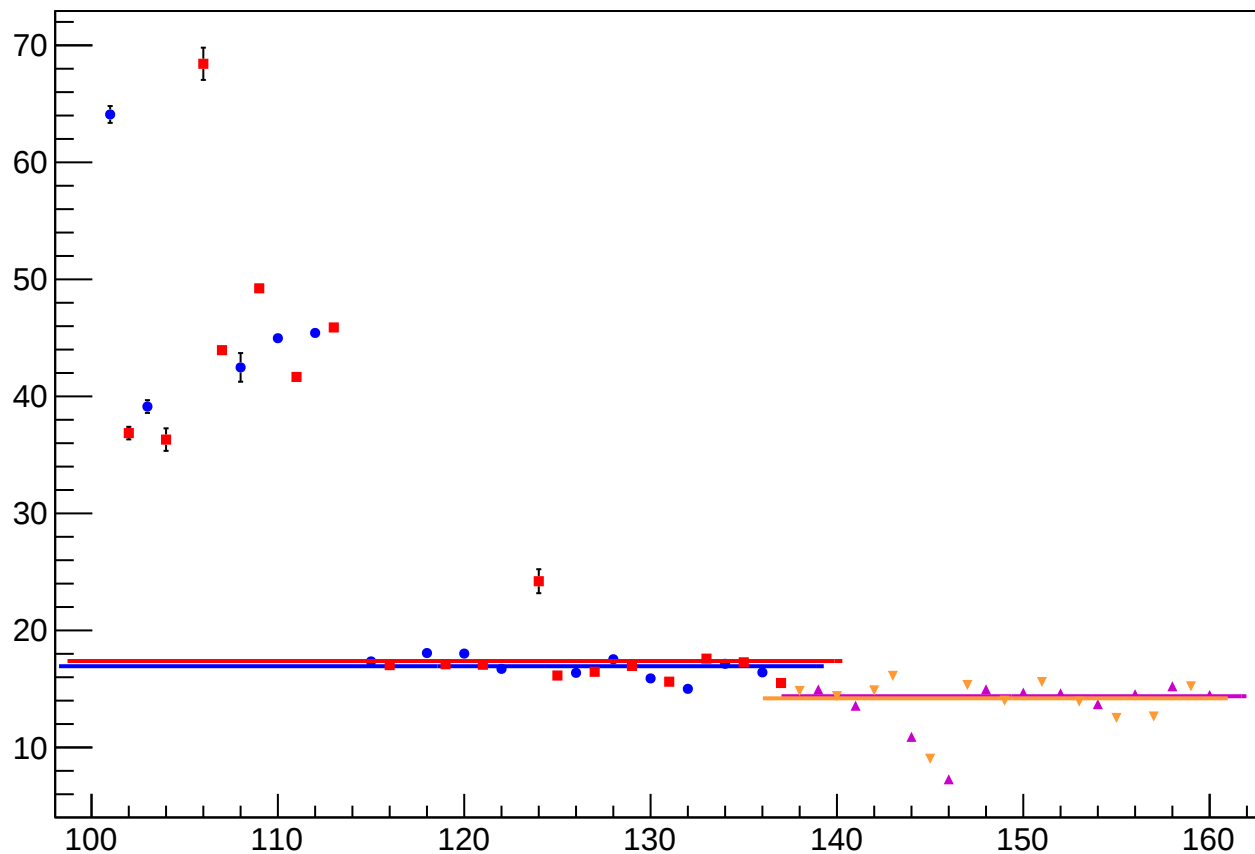
Right: 0.421 $\pm$ 0.006  $\chi^2$ /NDF: 7919.2/32

In: 0.493 $\pm$ 0.002  $\chi^2$ /NDF: 15730.4/25

Out: 0.512 $\pm$ 0.002  $\chi^2$ /NDF: 11930.7/29

All: 0.500 $\pm$ 0.002  $\chi^2$ /NDF: 27696.8/55

# dit\_sam2\_4aY\_slope vs Slug, Sign Corrected



Right In:  $16.941 \pm 0.013$   $\chi^2/\text{NDF}: 29019.8/14$

Left Out:  $14.197 \pm 0.010$   $\chi^2/\text{NDF}: 49692.0/11$

Right Out:  $17.385 \pm 0.018$   $\chi^2/\text{NDF}: 61131.5/17$

Left In:  $14.377 \pm 0.010$   $\chi^2/\text{NDF}: 8107.0/10$

Left:  $14.289 \pm 0.007$   $\chi^2/\text{NDF}: 57962.0/22$

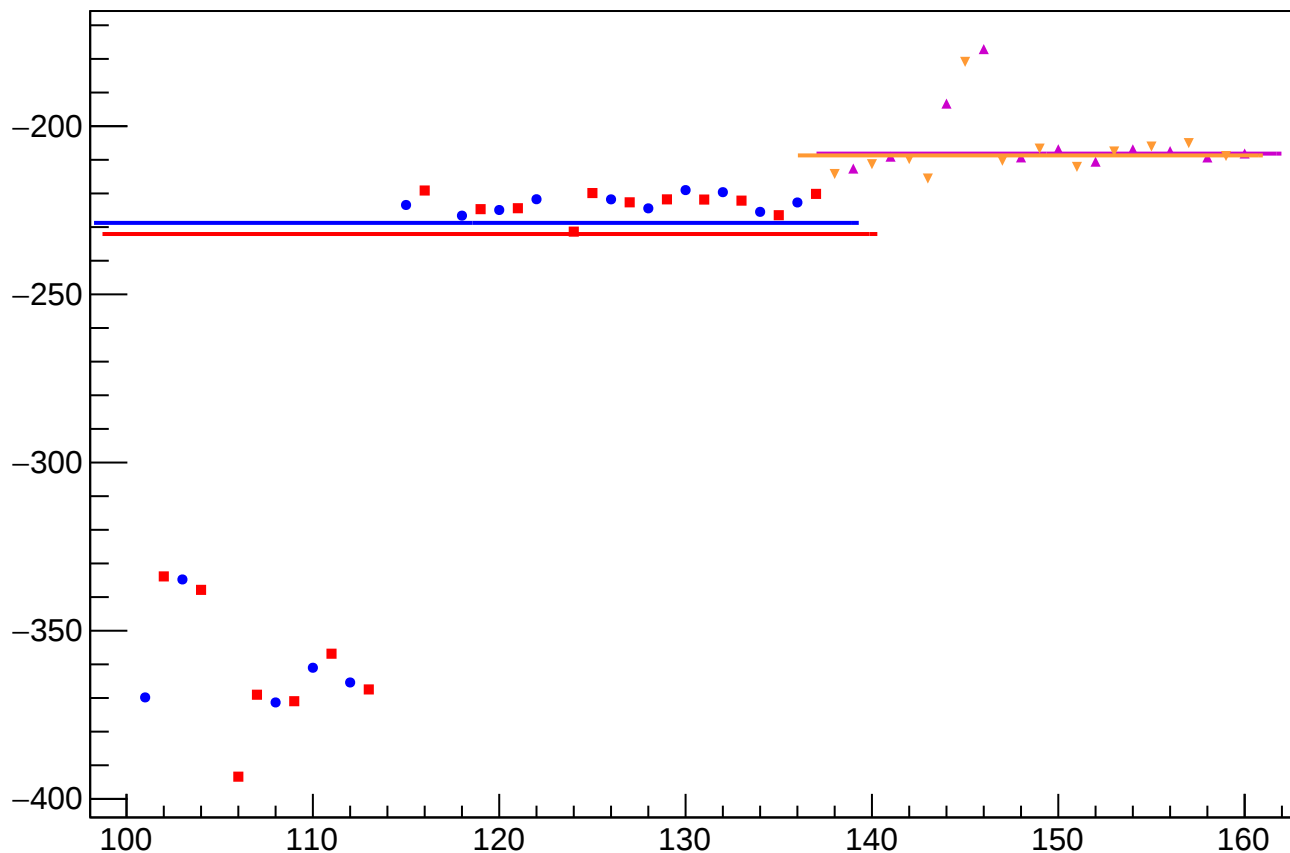
Right:  $17.096 \pm 0.010$   $\chi^2/\text{NDF}: 90566.4/32$

In:  $15.321 \pm 0.008$   $\chi^2/\text{NDF}: 62220.4/25$

Out:  $14.978 \pm 0.009$   $\chi^2/\text{NDF}: 135627.4/29$

All:  $15.168 \pm 0.006$   $\chi^2/\text{NDF}: 198707.1/55$

# dit\_sam2\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-228.749 \pm 0.035$   $\chi^2/\text{NDF}$ : 657578.5/14

Left Out:  $-208.690 \pm 0.021$   $\chi^2/\text{NDF}$ : 73730.8/11

Right Out:  $-232.058 \pm 0.041$   $\chi^2/\text{NDF}$ : 791526.5/17

Left In:  $-208.157 \pm 0.019$   $\chi^2/\text{NDF}$ : 14329.4/10

Left:  $-208.396 \pm 0.014$   $\chi^2/\text{NDF}$ : 88415.1/22

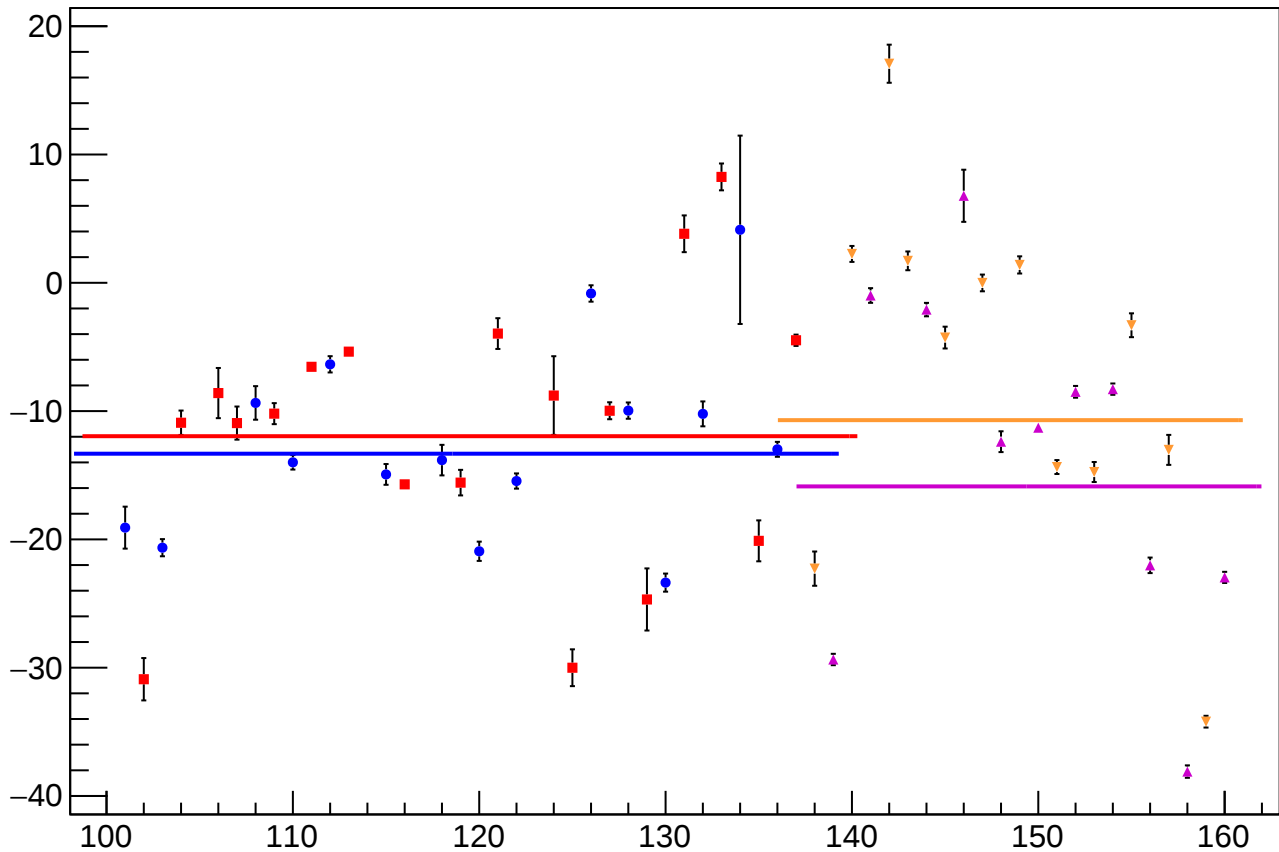
Right:  $-230.117 \pm 0.027$   $\chi^2/\text{NDF}$ : 1452870.5/32

In:  $-212.886 \pm 0.017$   $\chi^2/\text{NDF}$ : 943424.9/25

Out:  $-213.499 \pm 0.019$   $\chi^2/\text{NDF}$ : 1119492.3/29

All:  $-213.156 \pm 0.012$   $\chi^2/\text{NDF}$ : 2063516.4/55

# dit\_sam3\_4aX\_slope vs Slug, Sign Corrected



Left: -14.089  $\pm$  0.122  $\chi^2/\text{NDF}$ : 10601.3/22

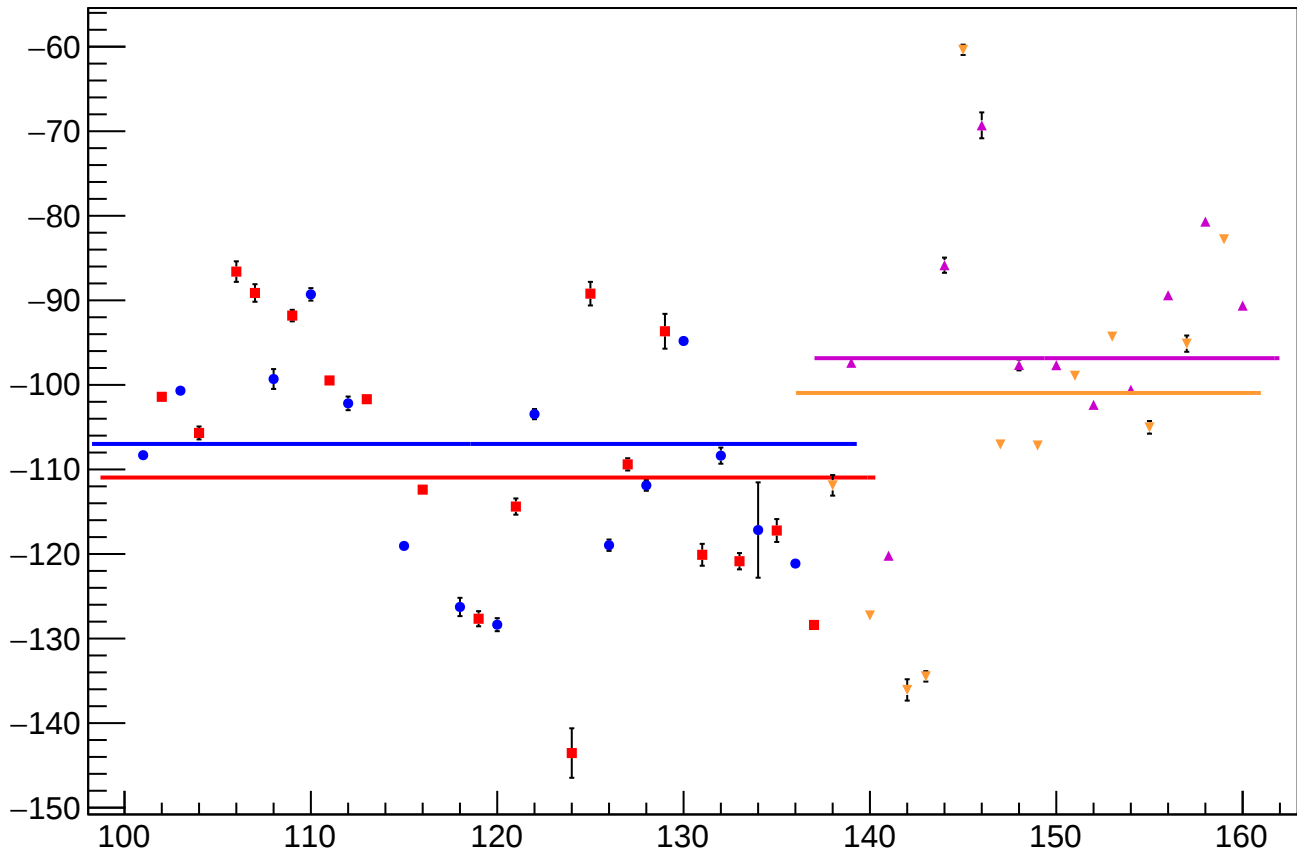
Right: -12.301  $\pm$  0.097  $\chi^2/\text{NDF}$ : 3537.3/32

In: -14.907  $\pm$  0.119  $\chi^2/\text{NDF}$ : 6756.0/25

Out: -11.673  $\pm$  0.099  $\chi^2/\text{NDF}$ : 7077.6/29

All: -12.996  $\pm$  0.076  $\chi^2/\text{NDF}$ : 14269.7/55

# dit\_sam3\_4eX\_slope vs Slug, Sign Corrected



Right In: -106.983+/-0.110  $\chi^2/\text{NDF}$ : 4658.3/14

Left Out: -100.952+/-0.165  $\chi^2/\text{NDF}$ :14017.2/11

Right Out: -110.955+/-0.050  $\chi^2/\text{NDF}$ : 10675.0/17

Left In: -96.840+/-0.126  $\chi^2/\text{NDF}$ :5247.5/10

Left: -98.351+/-0.100  $\chi^2/\text{NDF}$ : 19656.6/22

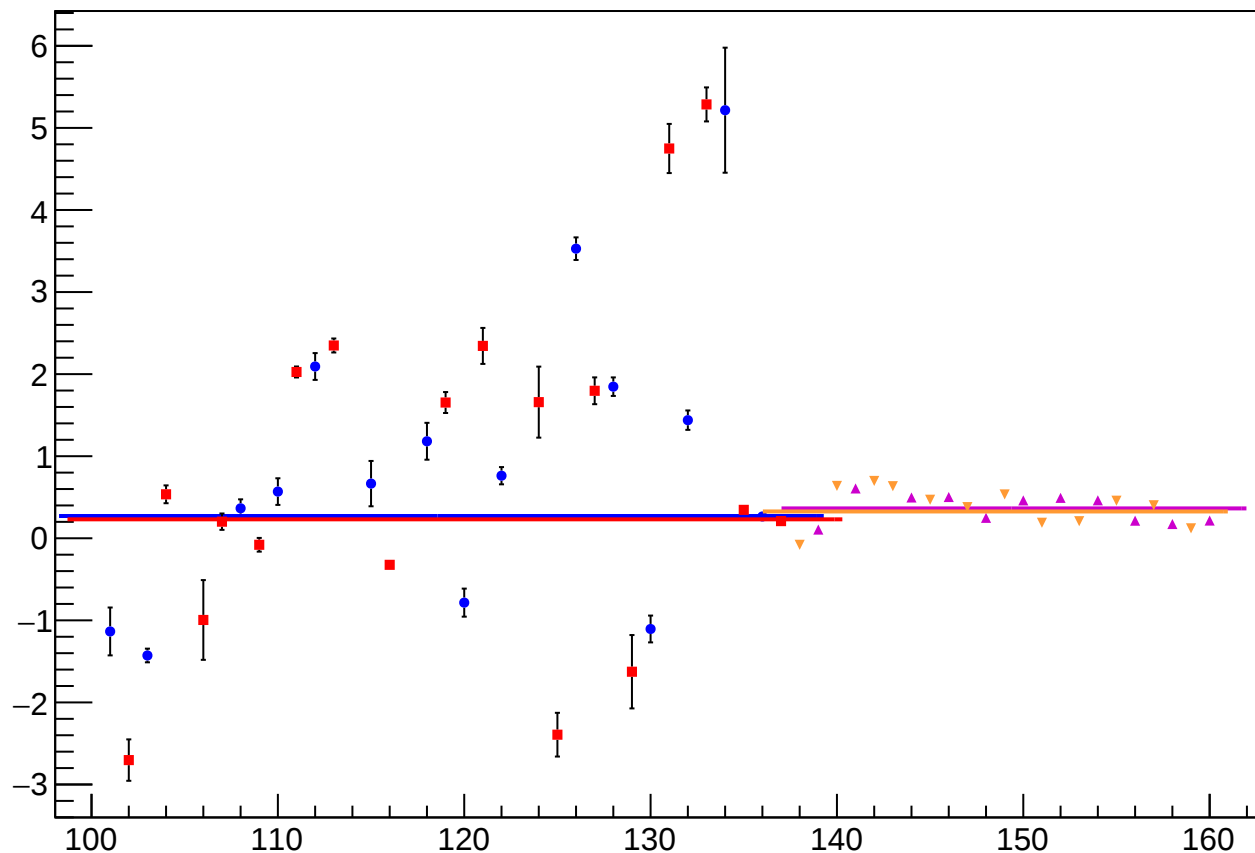
Right: -110.271+/-0.046  $\chi^2/\text{NDF}$ : 16412.2/32

In: -102.593+/-0.083  $\chi^2/\text{NDF}$ :13584.3/25

Out: -110.110+/-0.048  $\chi^2/\text{NDF}$ :28047.7/29

All: -108.220+/-0.042  $\chi^2/\text{NDF}$ : 47793.5/55

dit\_sam3\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.271 \pm 0.005$   $\chi^2/\text{NDF}: 1612.2/14$

Left Out:  $0.327 \pm 0.003$   $\chi^2/\text{NDF}: 6226.0/11$

Right Out:  $0.231 \pm 0.004$   $\chi^2/\text{NDF}: 2907.8/17$

Left In:  $0.364 \pm 0.002$   $\chi^2/\text{NDF}: 7164.5/10$

Left:  $0.350 \pm 0.002$   $\chi^2/\text{NDF}: 13506.7/22$

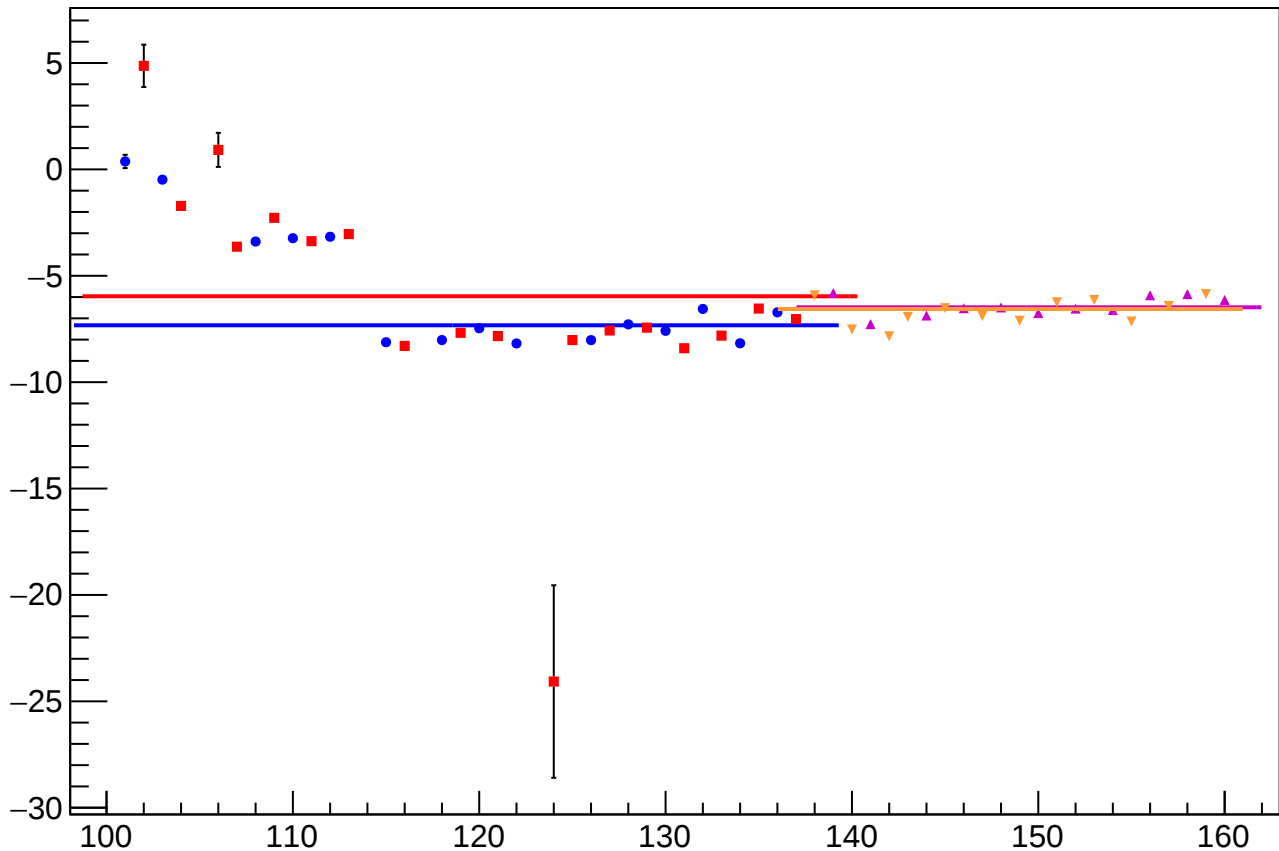
Right:  $0.247 \pm 0.003$   $\chi^2/\text{NDF}: 4554.2/32$

In:  $0.351 \pm 0.002$   $\chi^2/\text{NDF}: 9039.2/25$

Out:  $0.300 \pm 0.002$   $\chi^2/\text{NDF}: 9475.1/29$

All:  $0.330 \pm 0.001$   $\chi^2/\text{NDF}: 18799.9/55$

# dit\_sam3\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.327 \pm 0.008$   $\chi^2/\text{NDF}: 30494.2/14$

Left Out:  $-6.562 \pm 0.008$   $\chi^2/\text{NDF}: 4486.2/11$

Right Out:  $-5.964 \pm 0.009$   $\chi^2/\text{NDF}: 71807.1/17$

Left In:  $-6.481 \pm 0.006$   $\chi^2/\text{NDF}: 5227.2/10$

Left:  $-6.512 \pm 0.005$   $\chi^2/\text{NDF}: 9779.9/22$

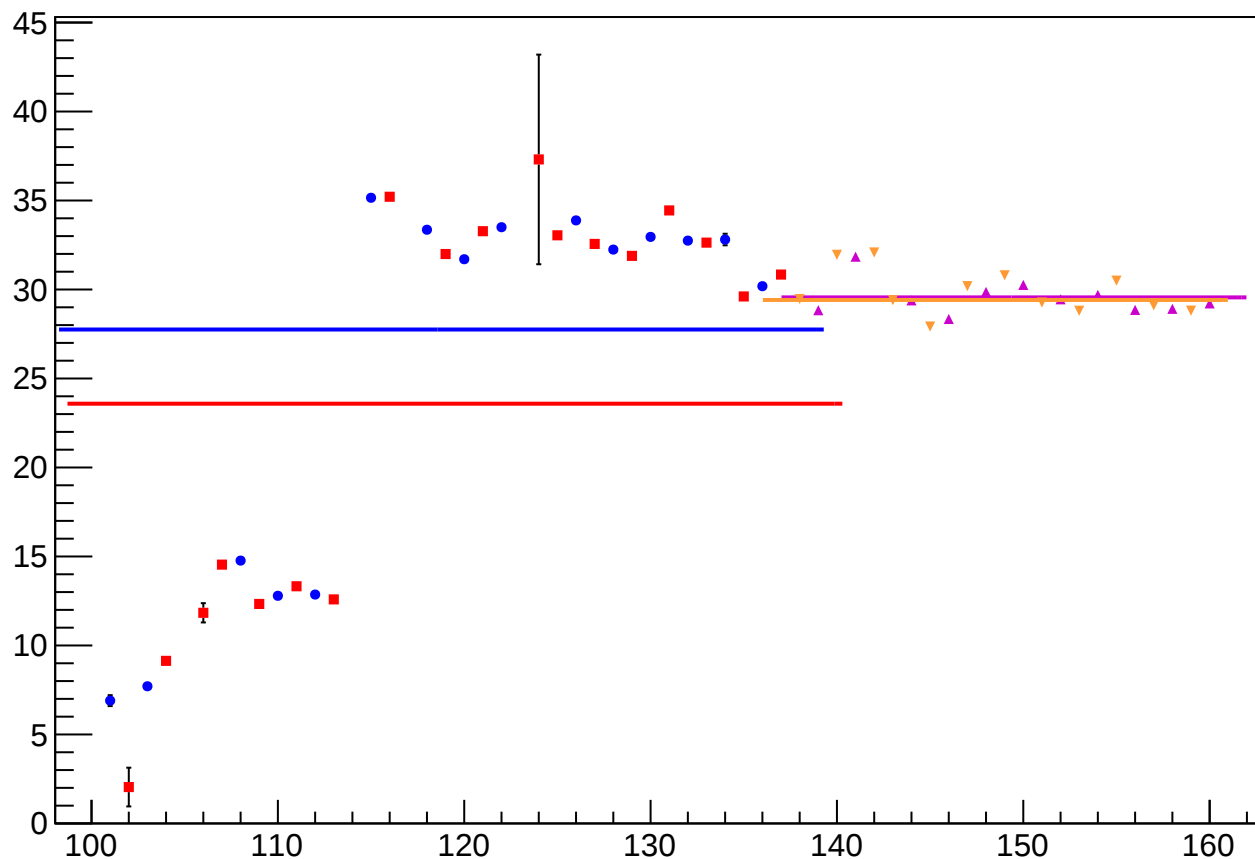
Right:  $-6.677 \pm 0.006$   $\chi^2/\text{NDF}: 114918.0/32$

In:  $-6.774 \pm 0.005$   $\chi^2/\text{NDF}: 42376.0/25$

Out:  $-6.295 \pm 0.006$   $\chi^2/\text{NDF}: 78870.5/29$

All:  $-6.576 \pm 0.004$   $\chi^2/\text{NDF}: 125152.7/55$

# dit\_sam3\_4eY\_slope vs Slug, Sign Corrected



Right In: 27.752 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 332926.6/14

Left Out: 29.412 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 7658.5/11

Right Out: 23.585 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 539616.2/17

Left In: 29.557 $\pm$ 0.011  $\chi^2/\text{NDF}$ : 2957.5/10

Left: 29.497 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 10685.9/22

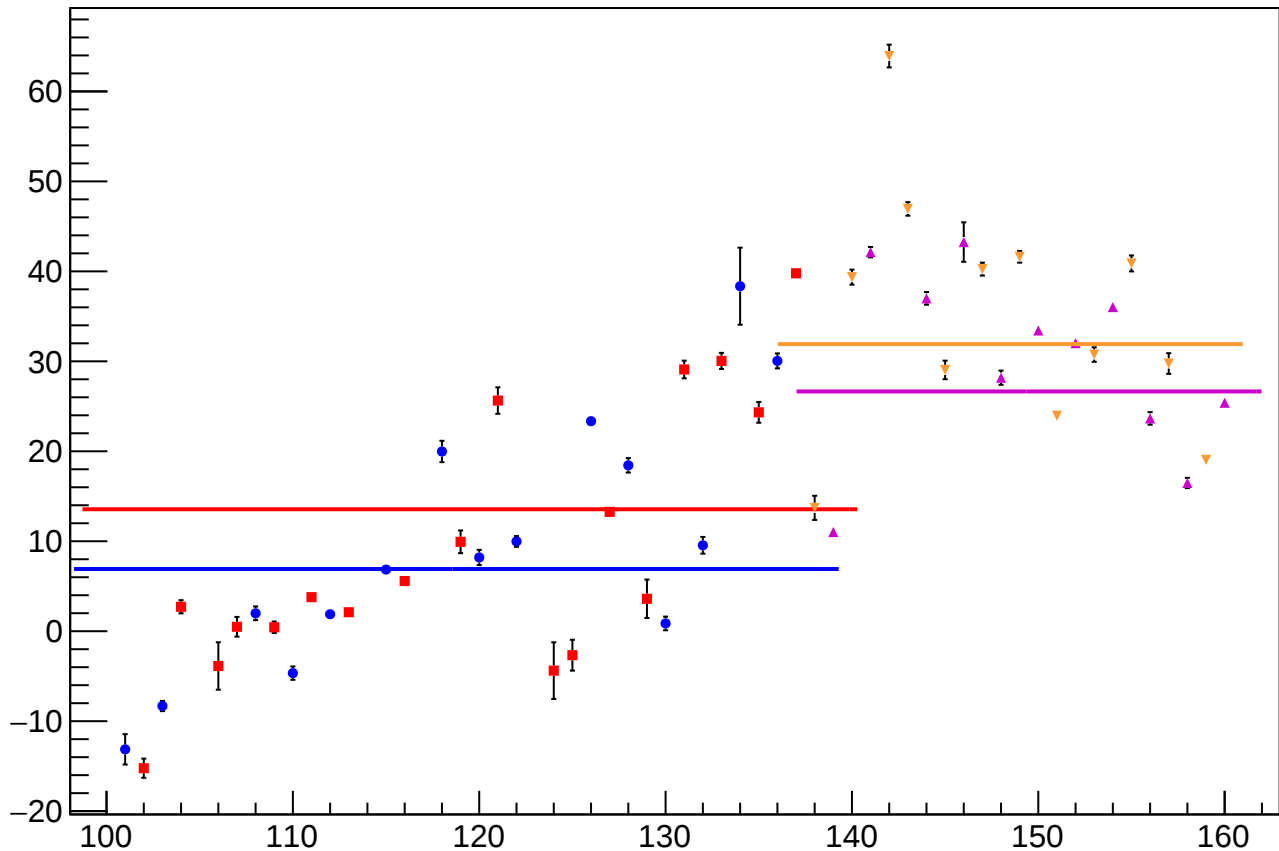
Right: 25.477 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 914478.1/32

In: 28.917 $\pm$ 0.009  $\chi^2/\text{NDF}$ : 345181.3/25

Out: 26.599 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 640669.2/29

All: 27.830 $\pm$ 0.007  $\chi^2/\text{NDF}$ : 1017274.4/55

# dit\_sam4\_4aX\_slope vs Slug, Sign Corrected



Right In:  $6.916 \pm 0.177$   $\chi^2/\text{NDF}: 3503.2/14$

Left Out:  $31.916 \pm 0.215$   $\chi^2/\text{NDF}: 2802.0/11$

Right Out:  $13.557 \pm 0.145$   $\chi^2/\text{NDF}: 11657.2/17$

Left In:  $26.650 \pm 0.149$   $\chi^2/\text{NDF}: 4624.0/10$

Left:  $28.353 \pm 0.122$   $\chi^2/\text{NDF}: 7832.7/22$

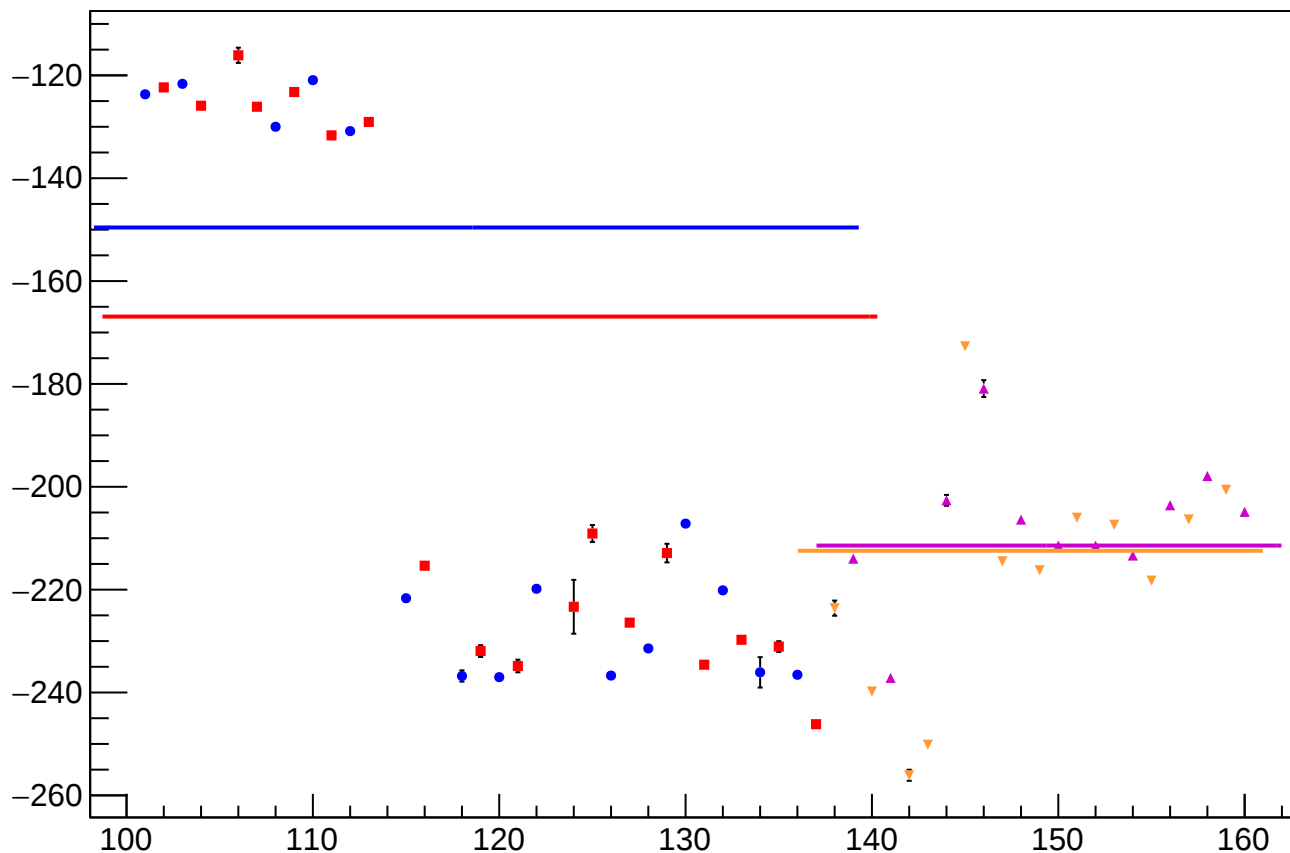
Right:  $10.880 \pm 0.112$   $\chi^2/\text{NDF}: 16004.9/32$

In:  $18.472 \pm 0.114$   $\chi^2/\text{NDF}: 15443.4/25$

Out:  $19.307 \pm 0.120$   $\chi^2/\text{NDF}: 19475.5/29$

All:  $18.866 \pm 0.083$   $\chi^2/\text{NDF}: 34944.4/55$

# dit\_sam4\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-149.580 \pm 0.101$   $\chi^2/\text{NDF}$ : 195091.5/14

Left Out:  $-212.441 \pm 0.173$   $\chi^2/\text{NDF}$ : 11343.3/11

Right Out:  $-166.899 \pm 0.101$   $\chi^2/\text{NDF}$ : 295489.9/17

Left In:  $-211.429 \pm 0.124$   $\chi^2/\text{NDF}$ : 5133.9/10

Left:  $-211.772 \pm 0.101$   $\chi^2/\text{NDF}$ : 16499.7/22

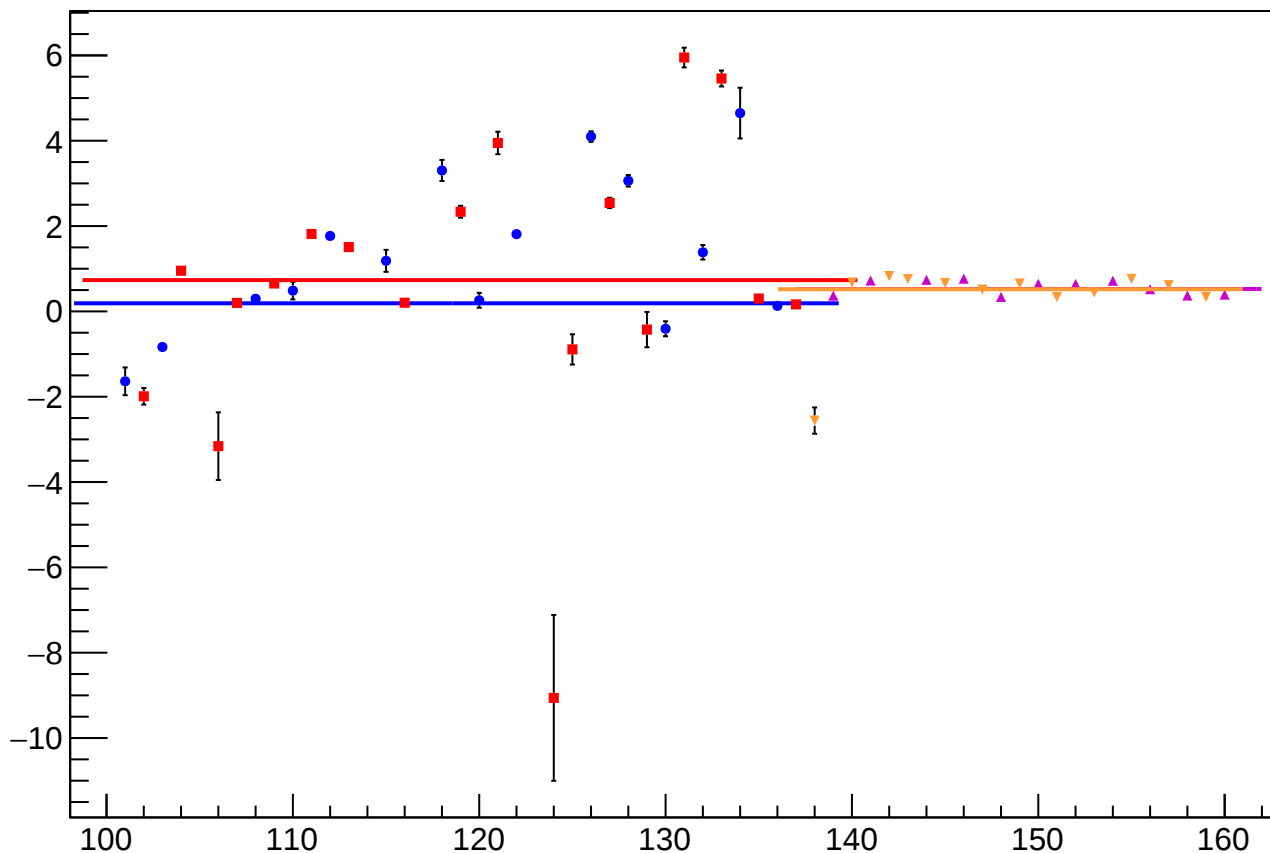
Right:  $-158.264 \pm 0.071$   $\chi^2/\text{NDF}$ : 505360.9/32

In:  $-174.169 \pm 0.078$   $\chi^2/\text{NDF}$ : 349685.7/25

Out:  $-178.372 \pm 0.087$   $\chi^2/\text{NDF}$ : 358472.9/29

All:  $-176.050 \pm 0.058$   $\chi^2/\text{NDF}$ : 709448.1/55

# dit\_sam4\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.190+/-0.009  $\chi^2/\text{NDF}$ : 2727.5/14

Left Out: 0.520+/-0.003  $\chi^2/\text{NDF}$ : 2994.6/11

Right Out: 0.733+/-0.020  $\chi^2/\text{NDF}$ : 2666.9/17

Left In: 0.525+/-0.003  $\chi^2/\text{NDF}$ : 3702.8/10

Left: 0.523+/-0.002  $\chi^2/\text{NDF}$ : 6699.2/22

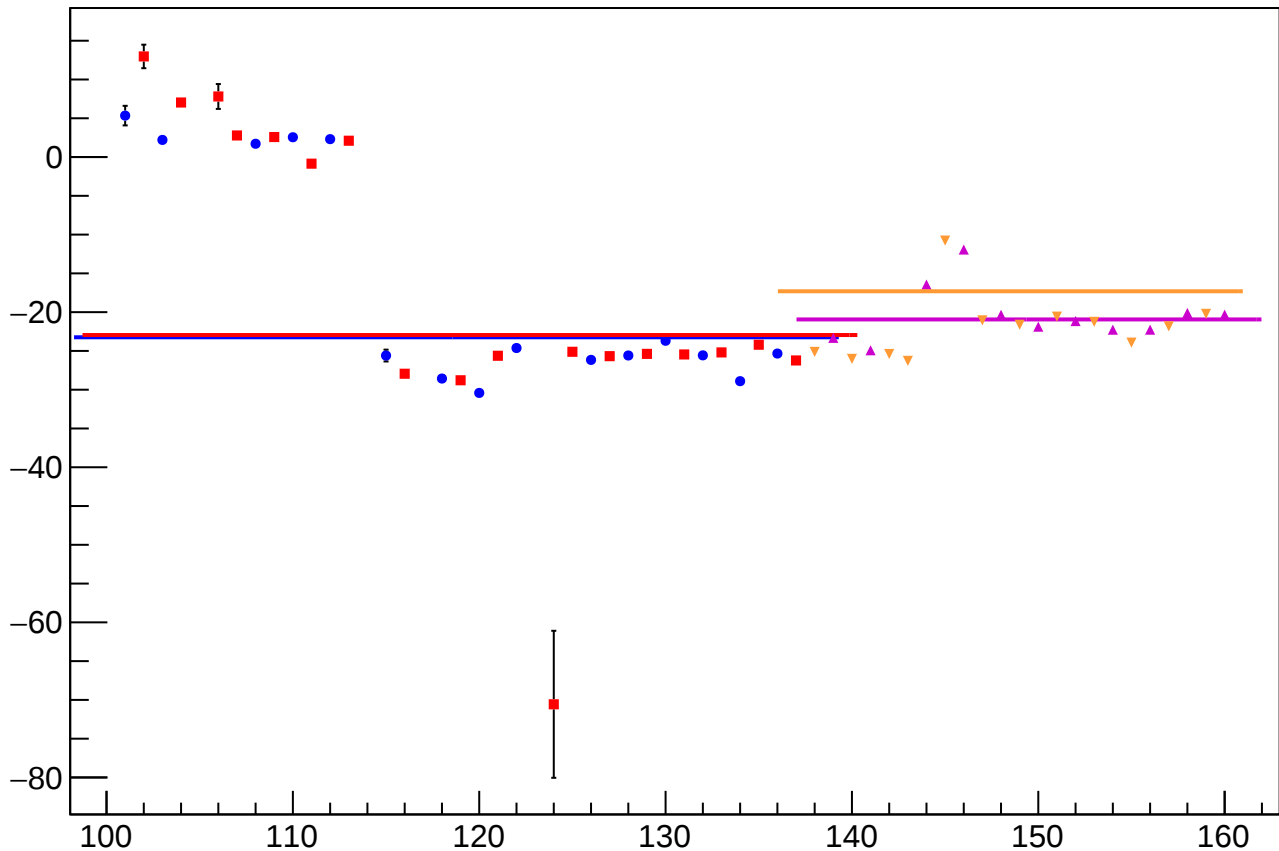
Right: 0.276+/-0.008  $\chi^2/\text{NDF}$ : 6029.4/32

In: 0.499+/-0.002  $\chi^2/\text{NDF}$ : 7829.9/25

Out: 0.525+/-0.003  $\chi^2/\text{NDF}$ : 5774.7/29

All: 0.508+/-0.002  $\chi^2/\text{NDF}$ : 13647.5/55

# dit\_sam4\_4aY\_slope vs Slug, Sign Corrected



Right In:  $-23.241 \pm 0.025$   $\chi^2/\text{NDF}: 103102.8/14$

Left Out:  $-17.308 \pm 0.017$   $\chi^2/\text{NDF}: 118046.5/11$

Right Out:  $-22.951 \pm 0.025$   $\chi^2/\text{NDF}: 108039.1/17$

Left In:  $-20.939 \pm 0.016$   $\chi^2/\text{NDF}: 10012.0/10$

Left:  $-19.197 \pm 0.012$   $\chi^2/\text{NDF}: 152757.4/22$

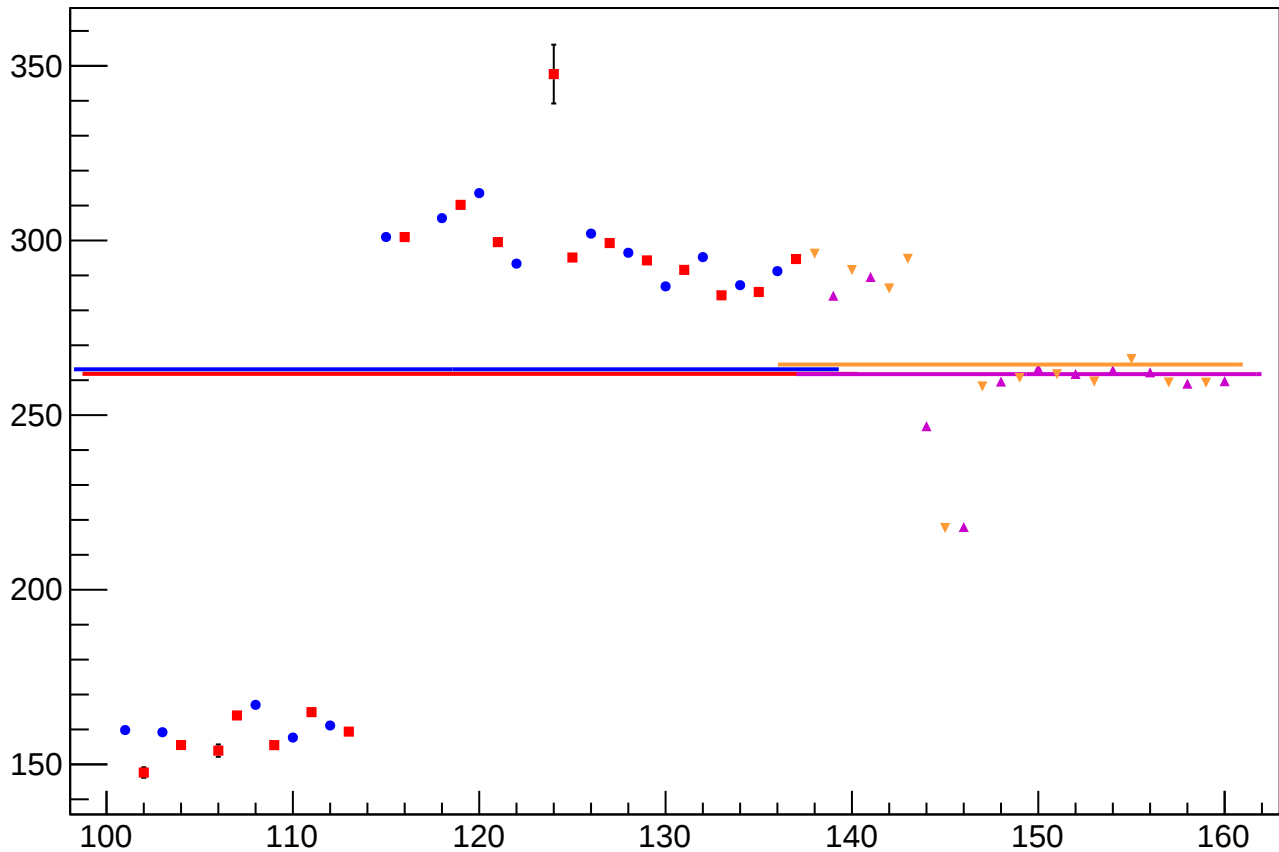
Right:  $-23.095 \pm 0.017$   $\chi^2/\text{NDF}: 211210.7/32$

In:  $-21.617 \pm 0.013$   $\chi^2/\text{NDF}: 119208.0/25$

Out:  $-19.074 \pm 0.014$   $\chi^2/\text{NDF}: 261968.2/29$

All:  $-20.381 \pm 0.010$   $\chi^2/\text{NDF}: 398580.8/55$

# dit\_sam4\_4eY\_slope vs Slug, Sign Corrected



Right In: 263.120+/-0.069  $\chi^2/\text{NDF}$ : 692885.4/14

Left Out: 264.489+/-0.040  $\chi^2/\text{NDF}$ : 191926.1/11

Right Out: 261.814+/-0.060  $\chi^2/\text{NDF}$ : 1006189.6/17

Left In: 261.736+/-0.034  $\chi^2/\text{NDF}$ : 36450.2/10

Left: 262.867+/-0.026  $\chi^2/\text{NDF}$ : 231122.2/22

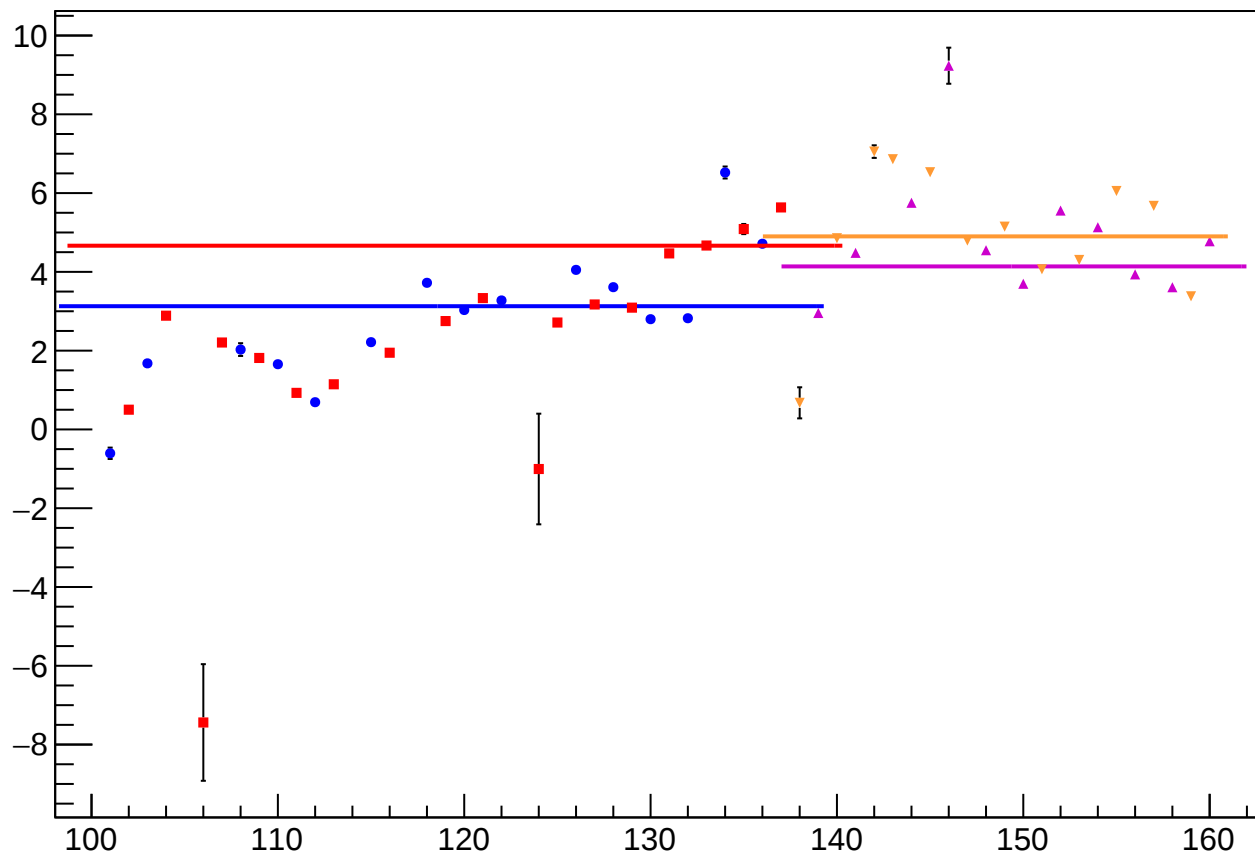
Right: 262.381+/-0.045  $\chi^2/\text{NDF}$ : 1699277.6/32

In: 262.002+/-0.030  $\chi^2/\text{NDF}$ : 729659.9/25

Out: 263.665+/-0.034  $\chi^2/\text{NDF}$ : 1199471.3/29

All: 262.749+/-0.022  $\chi^2/\text{NDF}$ : 1930486.4/55

# dit\_sam5\_4aX\_slope vs Slug, Sign Corrected



Right In:  $3.128 \pm 0.016$   $\chi^2/\text{NDF}: 5667.8/14$

Left Out:  $4.901 \pm 0.018$   $\chi^2/\text{NDF}: 2126.8/11$

Right Out:  $4.664 \pm 0.006$   $\chi^2/\text{NDF}: 66862.5/17$

Left In:  $4.138 \pm 0.016$   $\chi^2/\text{NDF}: 2685.7/10$

Left:  $4.485 \pm 0.012$   $\chi^2/\text{NDF}: 5840.3/22$

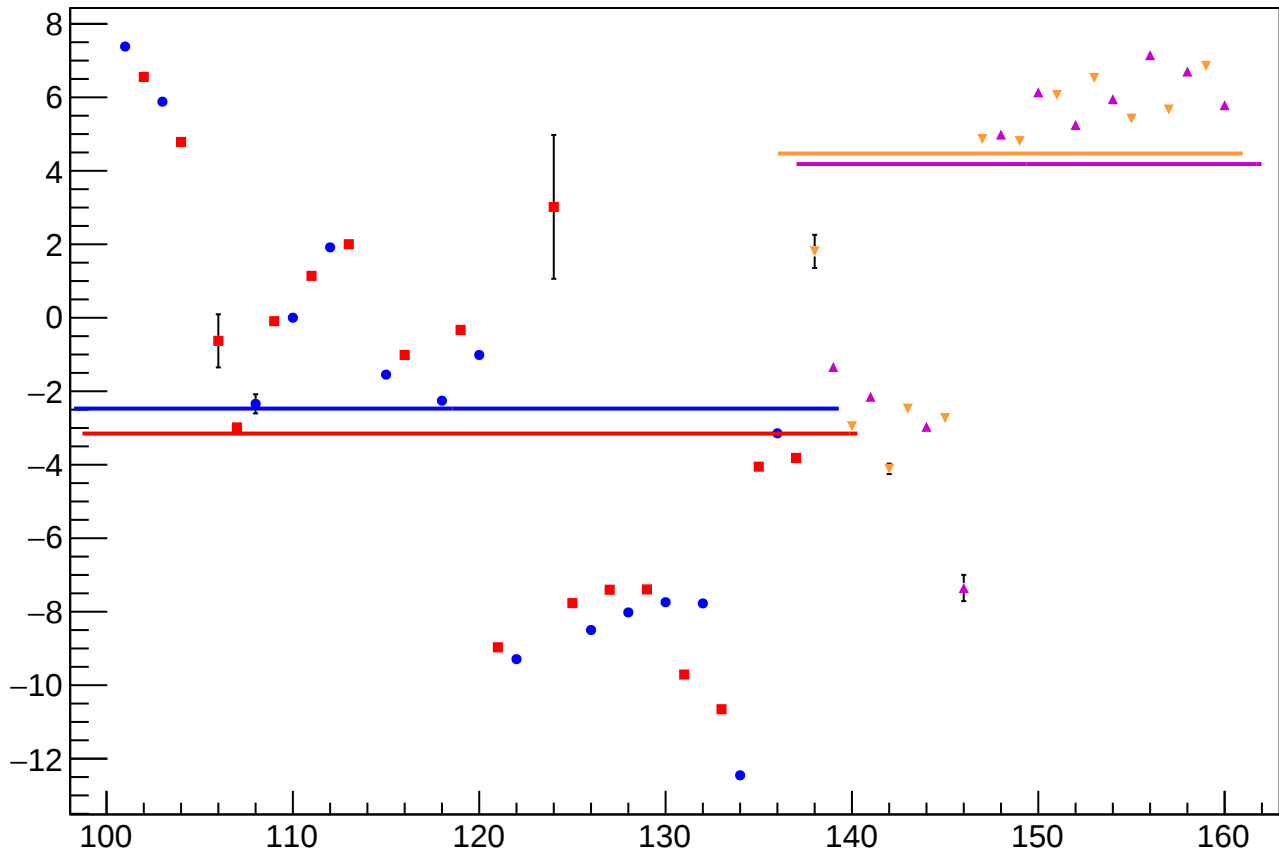
Right:  $4.450 \pm 0.006$   $\chi^2/\text{NDF}: 80704.7/32$

In:  $3.625 \pm 0.011$   $\chi^2/\text{NDF}: 10373.6/25$

Out:  $4.692 \pm 0.006$   $\chi^2/\text{NDF}: 69149.6/29$

All:  $4.457 \pm 0.005$   $\chi^2/\text{NDF}: 86552.0/55$

# dit\_sam5\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.471 \pm 0.014$   $\chi^2/\text{NDF}: 242579.9/14$

Left Out:  $4.471 \pm 0.014$   $\chi^2/\text{NDF}: 37205.4/11$

Right Out:  $-3.151 \pm 0.007$   $\chi^2/\text{NDF}: 247427.7/17$

Left In:  $4.184 \pm 0.014$   $\chi^2/\text{NDF}: 62354.4/10$

Left:  $4.321 \pm 0.010$   $\chi^2/\text{NDF}: 99769.8/22$

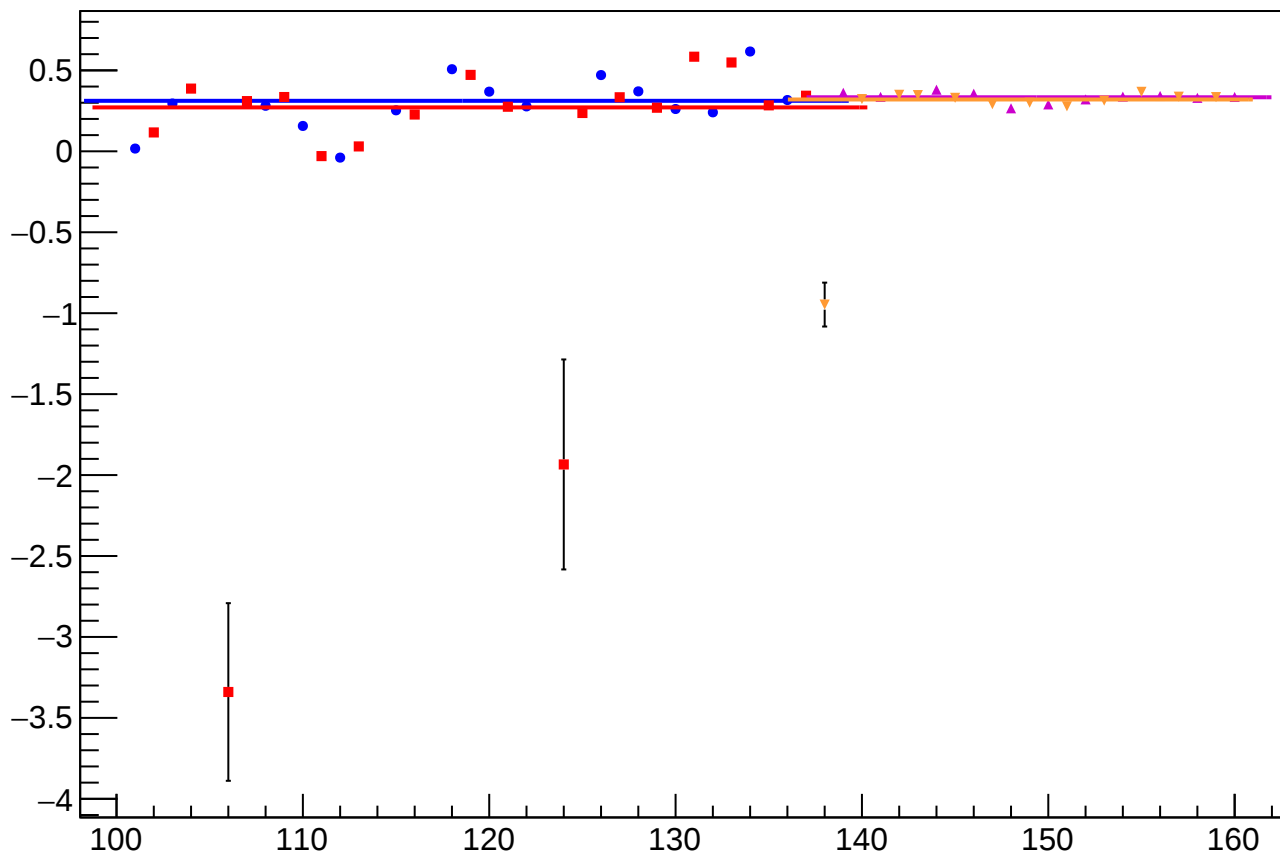
Right:  $-3.003 \pm 0.007$   $\chi^2/\text{NDF}: 491827.6/32$

In:  $0.965 \pm 0.010$   $\chi^2/\text{NDF}: 419861.8/25$

Out:  $-1.535 \pm 0.007$   $\chi^2/\text{NDF}: 507602.8/29$

All:  $-0.756 \pm 0.005$   $\chi^2/\text{NDF}: 972157.8/55$

# dit\_sam5\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.312 \pm 0.001$   $\chi^2/\text{NDF}: 1319.2/14$

Left Out:  $0.320 \pm 0.001$   $\chi^2/\text{NDF}: 1217.2/11$

Right Out:  $0.271 \pm 0.002$   $\chi^2/\text{NDF}: 6144.7/17$

Left In:  $0.334 \pm 0.001$   $\chi^2/\text{NDF}: 1942.9/10$

Left:  $0.327 \pm 0.001$   $\chi^2/\text{NDF}: 3336.3/22$

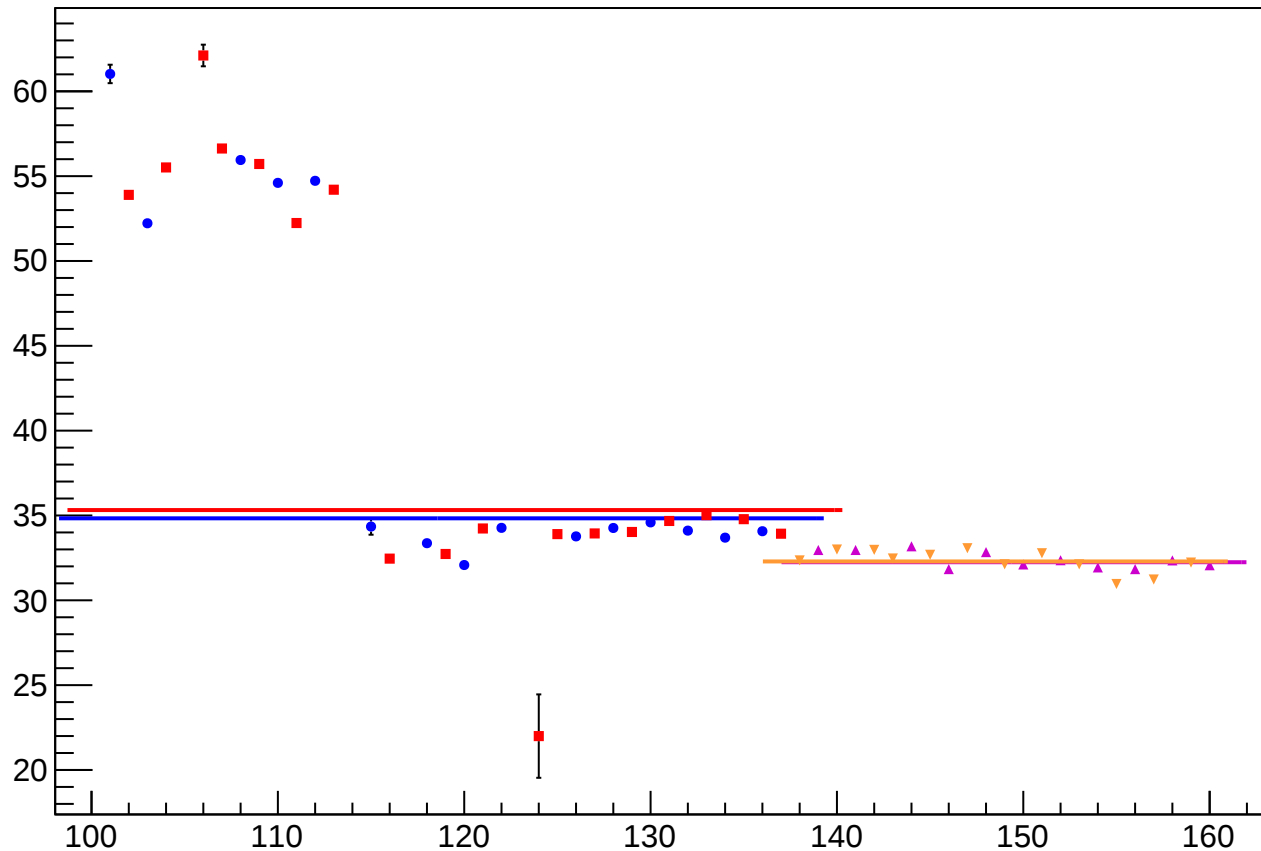
Right:  $0.301 \pm 0.001$   $\chi^2/\text{NDF}: 7735.2/32$

In:  $0.329 \pm 0.001$   $\chi^2/\text{NDF}: 3485.1/25$

Out:  $0.315 \pm 0.001$   $\chi^2/\text{NDF}: 7839.9/29$

All:  $0.322 \pm 0.000$   $\chi^2/\text{NDF}: 11544.9/55$

# dit\_sam5\_4aY\_slope vs Slug, Sign Corrected



Right In: 34.832 $\pm$ 0.009  $\chi^2$ /NDF: 245568.8/14

Left Out: 32.290 $\pm$ 0.005  $\chi^2$ /NDF: 3268.0/11

Right Out: 35.319 $\pm$ 0.010  $\chi^2$ /NDF: 261492.0/17

Left In: 32.244 $\pm$ 0.005  $\chi^2$ /NDF: 4841.6/10

Left: 32.264 $\pm$ 0.004  $\chi^2$ /NDF: 8151.1/22

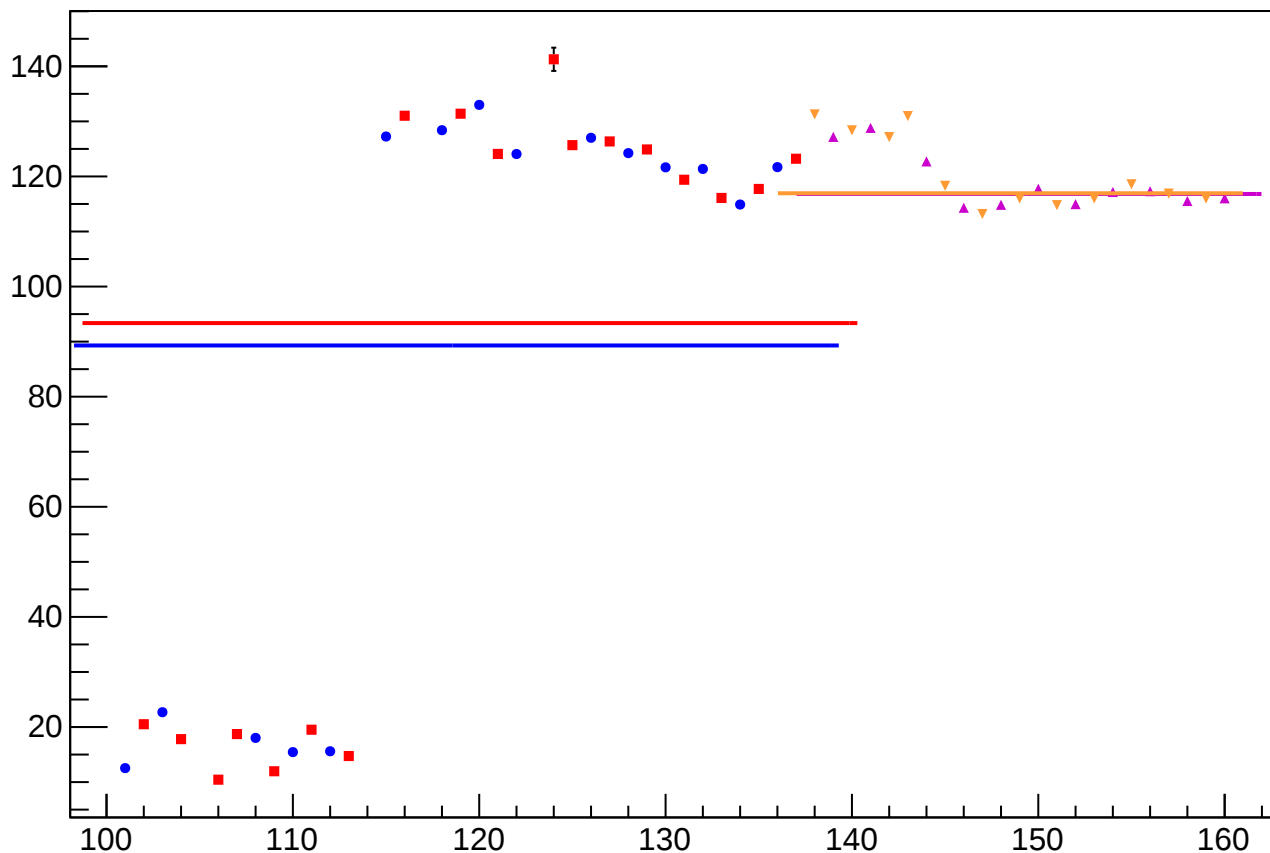
Right: 35.041 $\pm$ 0.007  $\chi^2$ /NDF: 508429.6/32

In: 32.835 $\pm$ 0.004  $\chi^2$ /NDF: 319940.6/25

Out: 32.974 $\pm$ 0.005  $\chi^2$ /NDF: 336456.6/29

All: 32.895 $\pm$ 0.003  $\chi^2$ /NDF: 656892.0/55

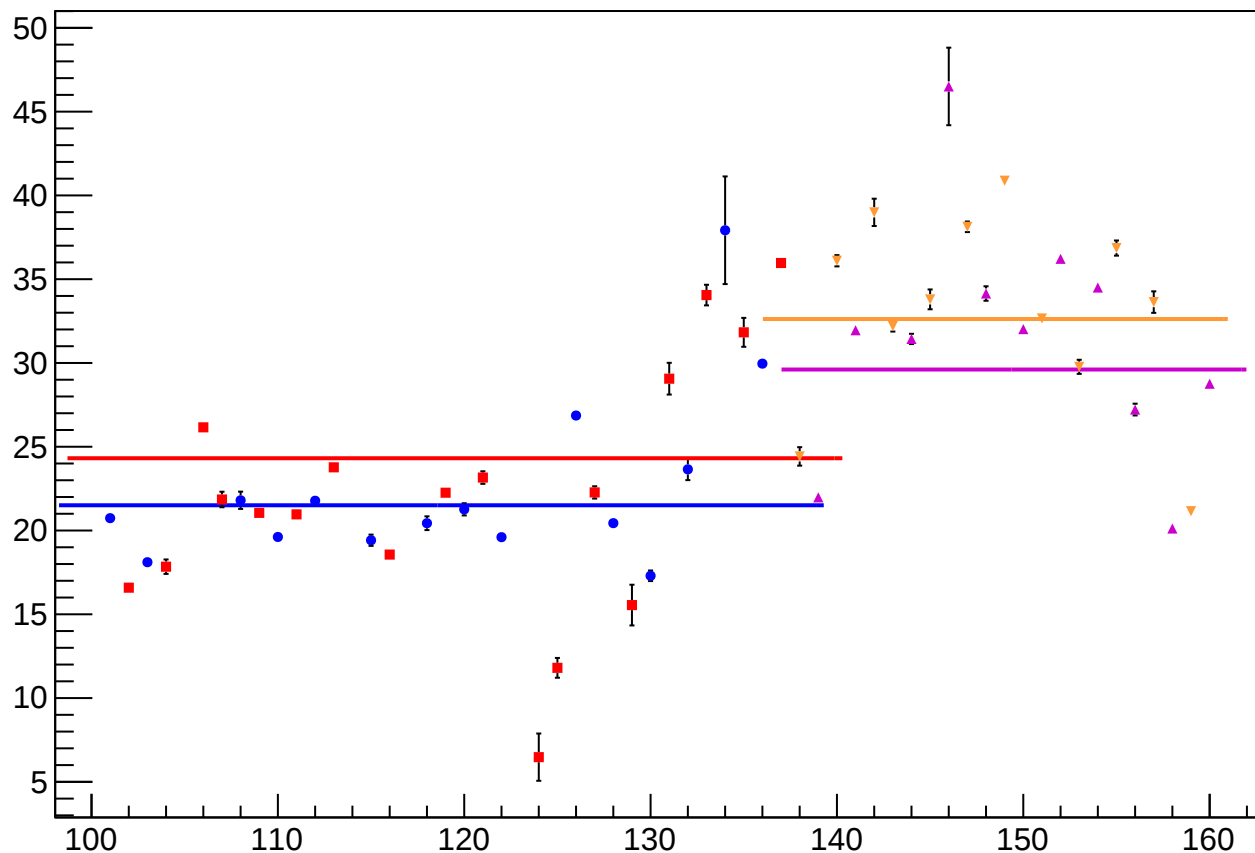
# dit\_sam5\_4eY\_slope vs Slug, Sign Corrected



Right In:  $89.302 \pm 0.027$   $\chi^2/\text{NDF}: 3034485.1/14$   
 Left Out:  $116.944 \pm 0.010$   $\chi^2/\text{NDF}: 118059.1/11$   
 Right Out:  $93.367 \pm 0.030$   $\chi^2/\text{NDF}: 2852493.6/17$   
 Left In:  $116.817 \pm 0.010$   $\chi^2/\text{NDF}: 41484.1/10$

Left:  $116.876 \pm 0.007$   $\chi^2/\text{NDF}: 159623.1/22$   
 Right:  $91.158 \pm 0.020$   $\chi^2/\text{NDF}: 5896996.6/32$   
 In:  $113.749 \pm 0.009$   $\chi^2/\text{NDF}: 3969465.6/25$   
 Out:  $114.424 \pm 0.010$   $\chi^2/\text{NDF}: 3524300.3/29$   
 All:  $114.064 \pm 0.007$   $\chi^2/\text{NDF}: 7496296.3/55$

# dit\_sam6\_4aX\_slope vs Slug, Sign Corrected



Right In:  $21.507 \pm 0.072$   $\chi^2/\text{NDF}: 2963.0/14$

Left Out:  $32.623 \pm 0.105$   $\chi^2/\text{NDF}: 3546.6/11$

Right Out:  $24.314 \pm 0.058$   $\chi^2/\text{NDF}: 14295.4/17$

Left In:  $29.609 \pm 0.081$   $\chi^2/\text{NDF}: 4059.1/10$

Left:  $30.738 \pm 0.064$   $\chi^2/\text{NDF}: 8120.5/22$

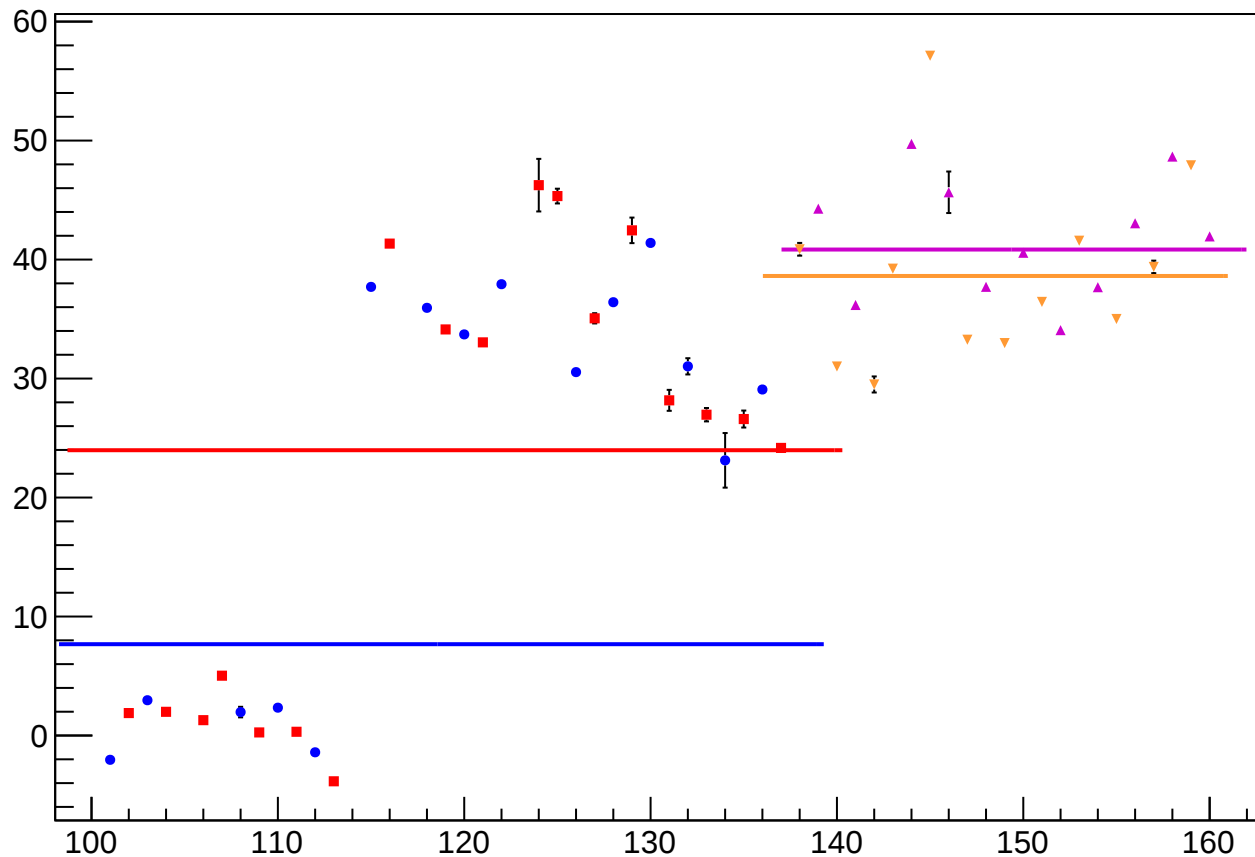
Right:  $23.204 \pm 0.045$   $\chi^2/\text{NDF}: 18169.2/32$

In:  $25.086 \pm 0.054$   $\chi^2/\text{NDF}: 12565.4/25$

Out:  $26.279 \pm 0.051$   $\chi^2/\text{NDF}: 22618.4/29$

All:  $25.716 \pm 0.037$   $\chi^2/\text{NDF}: 35441.3/55$

# dit\_sam6\_4eX\_slope vs Slug, Sign Corrected



Right In:  $7.675 \pm 0.045$   $\chi^2/\text{NDF}$ : 96442.5/14

Left Out:  $38.621 \pm 0.085$   $\chi^2/\text{NDF}$ : 6143.3/11

Right Out:  $23.977 \pm 0.008$   $\chi^2/\text{NDF}$ : 110564.0/17

Left In:  $40.842 \pm 0.067$   $\chi^2/\text{NDF}$ : 3650.0/10

Left:  $40.000 \pm 0.053$   $\chi^2/\text{NDF}$ : 10213.3/22

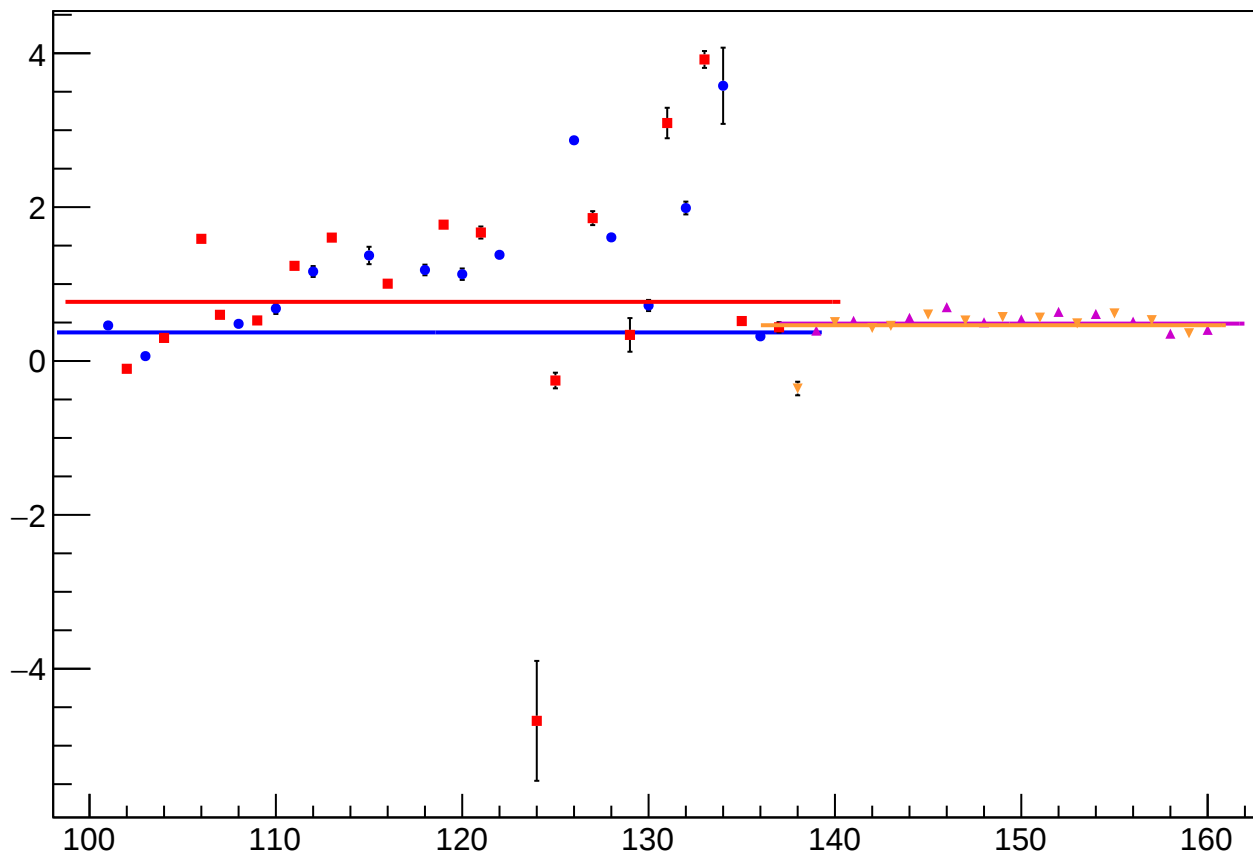
Right:  $23.461 \pm 0.008$   $\chi^2/\text{NDF}$ : 332774.6/32

In:  $18.111 \pm 0.037$   $\chi^2/\text{NDF}$ : 269254.8/25

Out:  $24.110 \pm 0.008$   $\chi^2/\text{NDF}$ : 145854.9/29

All:  $23.840 \pm 0.008$   $\chi^2/\text{NDF}$ : 439615.2/55

# dit\_sam6\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.372 $\pm$ 0.004  $\chi^2$ /NDF: 4748.7/14

Left Out: 0.465 $\pm$ 0.001  $\chi^2$ /NDF:4630.2/11

Right Out: 0.769 $\pm$ 0.007  $\chi^2$ /NDF: 4137.5/17

Left In: 0.486 $\pm$ 0.001  $\chi^2$ /NDF:6900.3/10

Left: 0.476 $\pm$ 0.001  $\chi^2$ /NDF: 11658.7/22

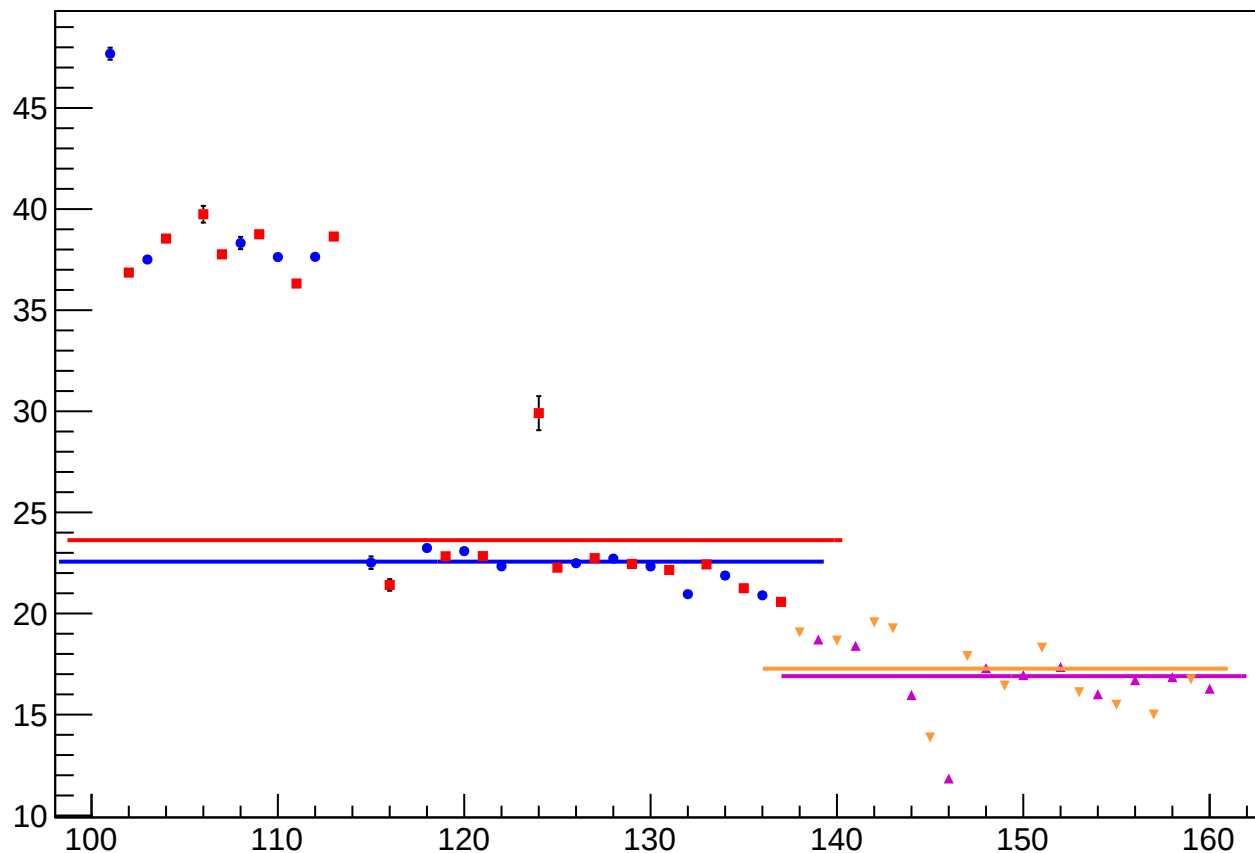
Right: 0.484 $\pm$ 0.004  $\chi^2$ /NDF: 11237.9/32

In: 0.477 $\pm$ 0.001  $\chi^2$ /NDF:12284.2/25

Out: 0.476 $\pm$ 0.001  $\chi^2$ /NDF:10616.4/29

All: 0.477 $\pm$ 0.001  $\chi^2$ /NDF: 22900.9/55

# dit\_sam6\_4aY\_slope vs Slug, Sign Corrected



Right In: 22.565 $\pm$ 0.010  $\chi^2$ /NDF: 92859.1/14

Left Out: 17.271 $\pm$ 0.008  $\chi^2$ /NDF: 44197.7/11

Right Out: 23.627 $\pm$ 0.011  $\chi^2$ /NDF: 123194.1/17

Left In: 16.901 $\pm$ 0.008  $\chi^2$ /NDF: 12992.7/10

Left: 17.096 $\pm$ 0.006  $\chi^2$ /NDF: 58258.8/22

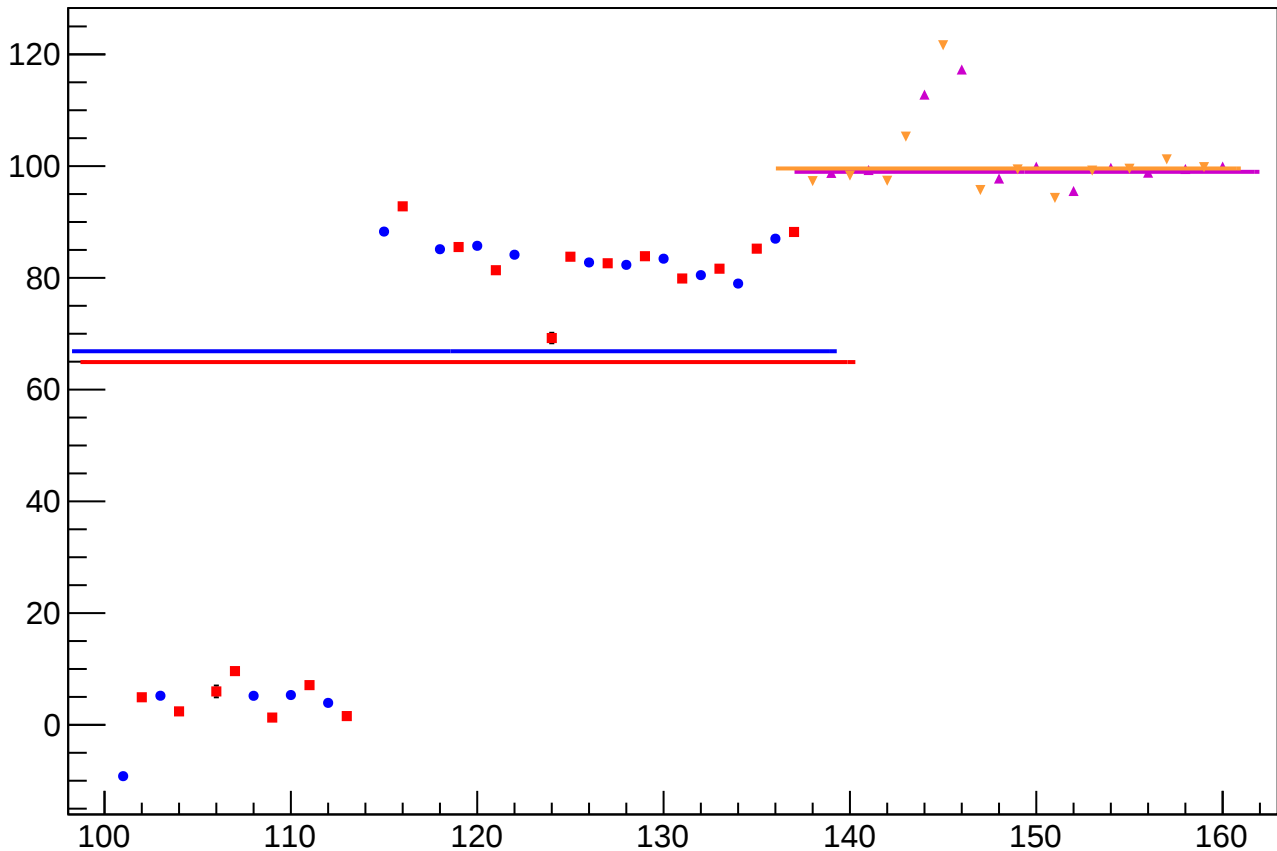
Right: 23.044 $\pm$ 0.008  $\chi^2$ /NDF: 220970.6/32

In: 19.136 $\pm$ 0.006  $\chi^2$ /NDF: 293477.3/25

Out: 19.341 $\pm$ 0.006  $\chi^2$ /NDF: 383723.4/29

All: 19.238 $\pm$ 0.005  $\chi^2$ /NDF: 677712.2/55

# dit\_sam6\_4eY\_slope vs Slug, Sign Corrected



Right In: 66.866 $\pm$ 0.027  $\chi^2$ /NDF: 1494212.3/14

Left Out: 99.580 $\pm$ 0.015  $\chi^2$ /NDF: 68579.7/11

Right Out: 64.929 $\pm$ 0.030  $\chi^2$ /NDF: 1334580.7/17

Left In: 98.978 $\pm$ 0.014  $\chi^2$ /NDF: 15024.4/10

Left: 99.262 $\pm$ 0.010  $\chi^2$ /NDF: 84459.9/22

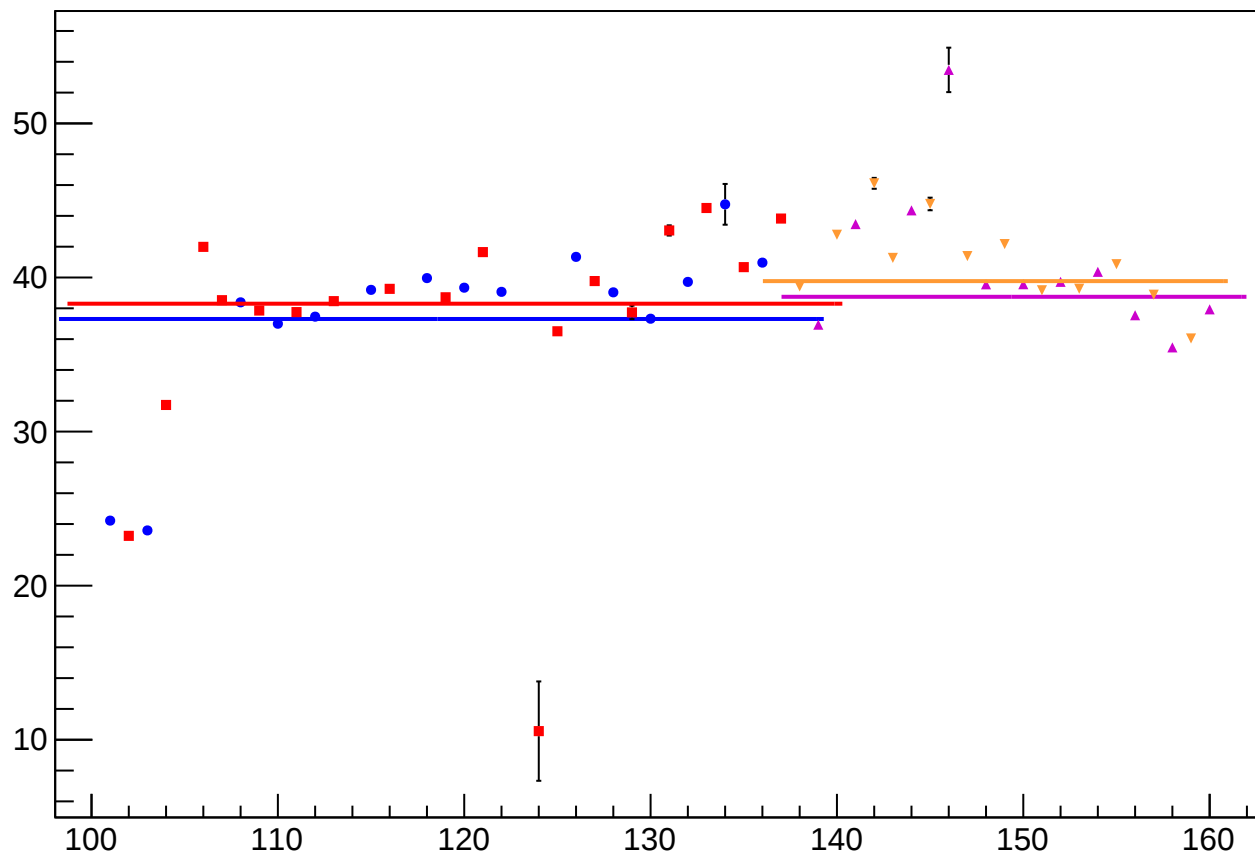
Right: 65.988 $\pm$ 0.020  $\chi^2$ /NDF: 2831116.5/32

In: 92.102 $\pm$ 0.013  $\chi^2$ /NDF: 2615897.8/25

Out: 92.600 $\pm$ 0.013  $\chi^2$ /NDF: 2488098.3/29

All: 92.335 $\pm$ 0.009  $\chi^2$ /NDF: 5104736.8/55

# dit\_sam7\_4aX\_slope vs Slug, Sign Corrected



Right In:  $37.308 \pm 0.023$   $\chi^2/\text{NDF}: 59580.0/14$

Left Out:  $39.765 \pm 0.040$   $\chi^2/\text{NDF}: 3623.7/11$

Right Out:  $38.300 \pm 0.021$   $\chi^2/\text{NDF}: 18840.0/17$

Left In:  $38.748 \pm 0.029$   $\chi^2/\text{NDF}: 5265.4/10$

Left:  $39.097 \pm 0.024$   $\chi^2/\text{NDF}: 9306.0/22$

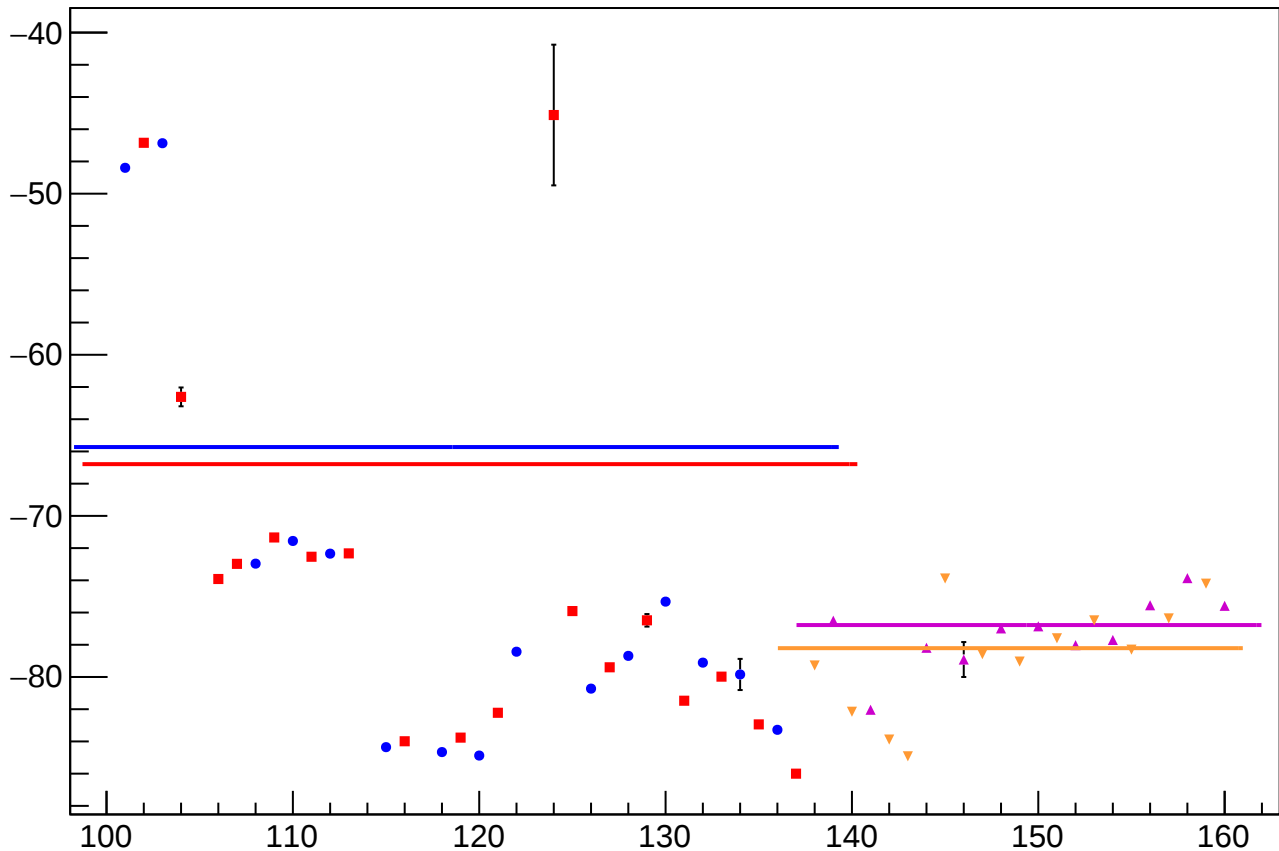
Right:  $37.862 \pm 0.015$   $\chi^2/\text{NDF}: 79451.9/32$

In:  $37.862 \pm 0.018$   $\chi^2/\text{NDF}: 66344.5/25$

Out:  $38.600 \pm 0.018$   $\chi^2/\text{NDF}: 23510.1/29$

All:  $38.227 \pm 0.013$   $\chi^2/\text{NDF}: 90676.9/55$

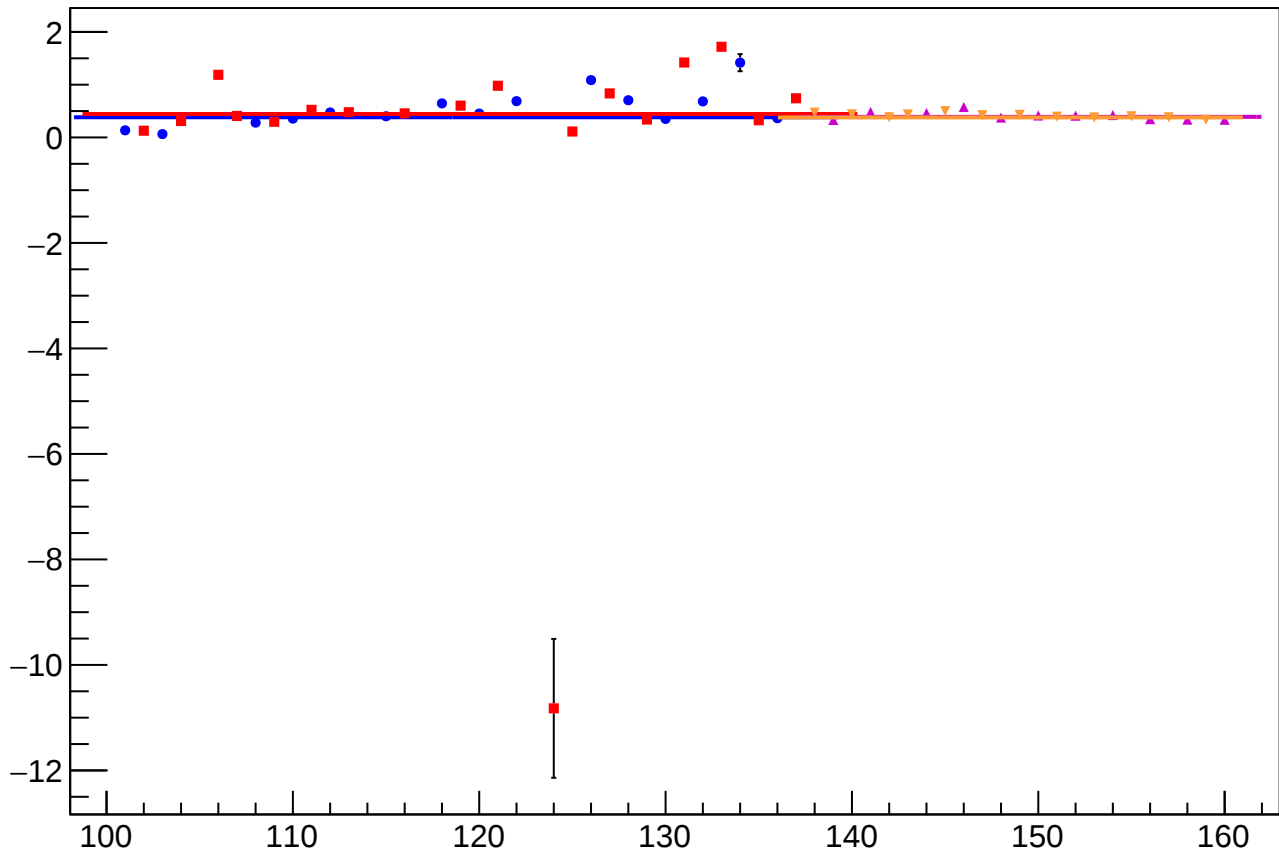
# dit\_sam7\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-65.728 \pm 0.017$   $\chi^2/\text{NDF}: 903051.8/14$   
 Left Out:  $-78.211 \pm 0.033$   $\chi^2/\text{NDF}: 10601.5/11$   
 Right Out:  $-66.788 \pm 0.016$   $\chi^2/\text{NDF}: 809356.5/17$   
 Left In:  $-76.776 \pm 0.023$   $\chi^2/\text{NDF}: 4724.4/10$

Left:  $-77.243 \pm 0.019$   $\chi^2/\text{NDF}: 16564.3/22$   
 Right:  $-66.292 \pm 0.012$   $\chi^2/\text{NDF}: 1714516.0/32$   
 In:  $-69.529 \pm 0.014$   $\chi^2/\text{NDF}: 1055691.8/25$   
 Out:  $-68.870 \pm 0.014$   $\chi^2/\text{NDF}: 915128.0/29$   
 All:  $-69.214 \pm 0.010$   $\chi^2/\text{NDF}: 1971930.9/55$

dit\_sam7\_11X12X\_slope vs Slug, Sign Corrected



Right In: 0.383 $\pm$ 0.002  $\chi^2$ /NDF: 8173.1/14

Left Out: 0.379 $\pm$ 0.001  $\chi^2$ /NDF: 4962.9/11

Right Out: 0.444 $\pm$ 0.004  $\chi^2$ /NDF: 2786.2/17

Left In: 0.390 $\pm$ 0.001  $\chi^2$ /NDF: 6096.7/10

Left: 0.385 $\pm$ 0.000  $\chi^2$ /NDF: 11224.0/22

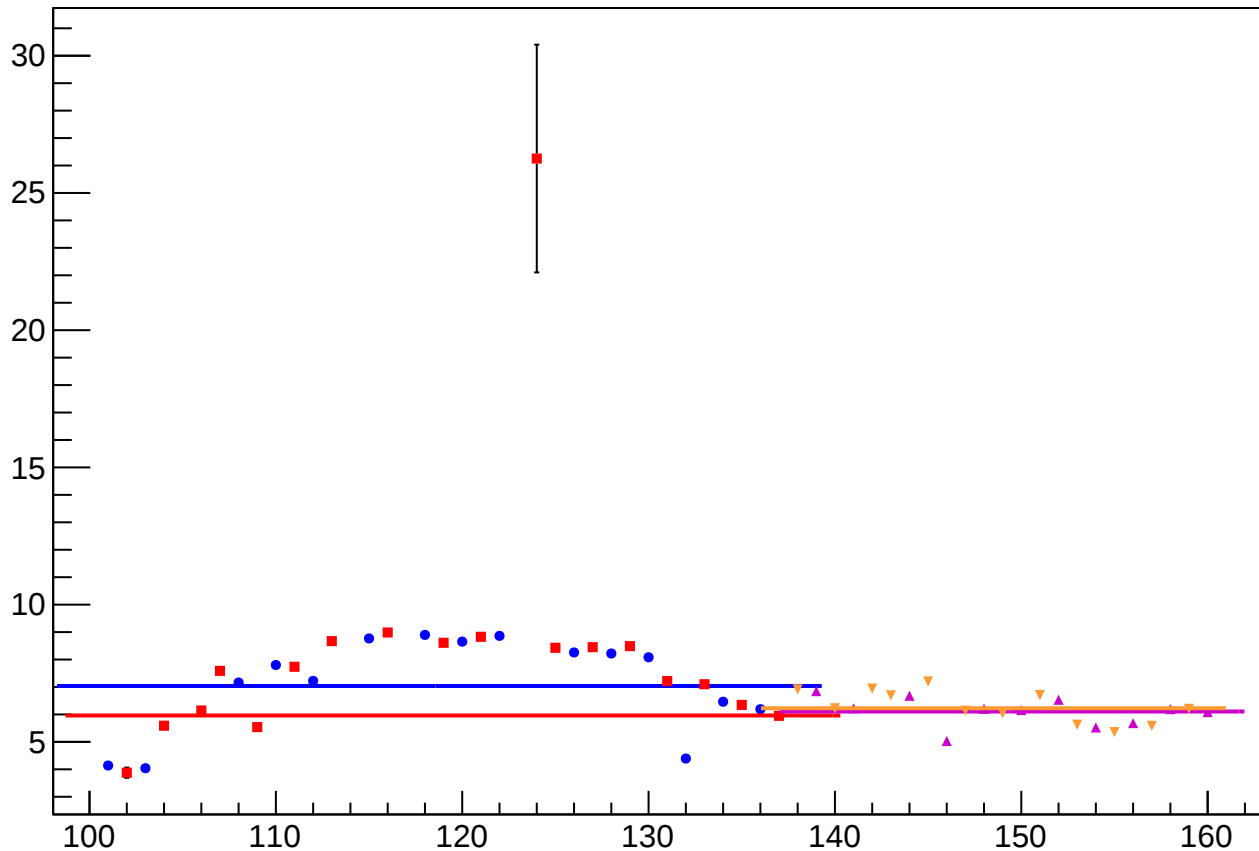
Right: 0.395 $\pm$ 0.002  $\chi^2$ /NDF: 11182.8/32

In: 0.389 $\pm$ 0.001  $\chi^2$ /NDF: 14283.7/25

Out: 0.381 $\pm$ 0.001  $\chi^2$ /NDF: 8055.4/29

All: 0.386 $\pm$ 0.000  $\chi^2$ /NDF: 22443.5/55

# dit\_sam7\_4aY\_slope vs Slug, Sign Corrected



Right In:  $7.036 \pm 0.005$   $\chi^2/\text{NDF}: 69905.1/14$

Left Out:  $6.226 \pm 0.002$   $\chi^2/\text{NDF}: 24701.2/11$

Right Out:  $5.962 \pm 0.000$   $\chi^2/\text{NDF}: 168372.8/17$

Left In:  $6.107 \pm 0.002$   $\chi^2/\text{NDF}: 27762.2/10$

Left:  $6.156 \pm 0.001$   $\chi^2/\text{NDF}: 54425.7/22$

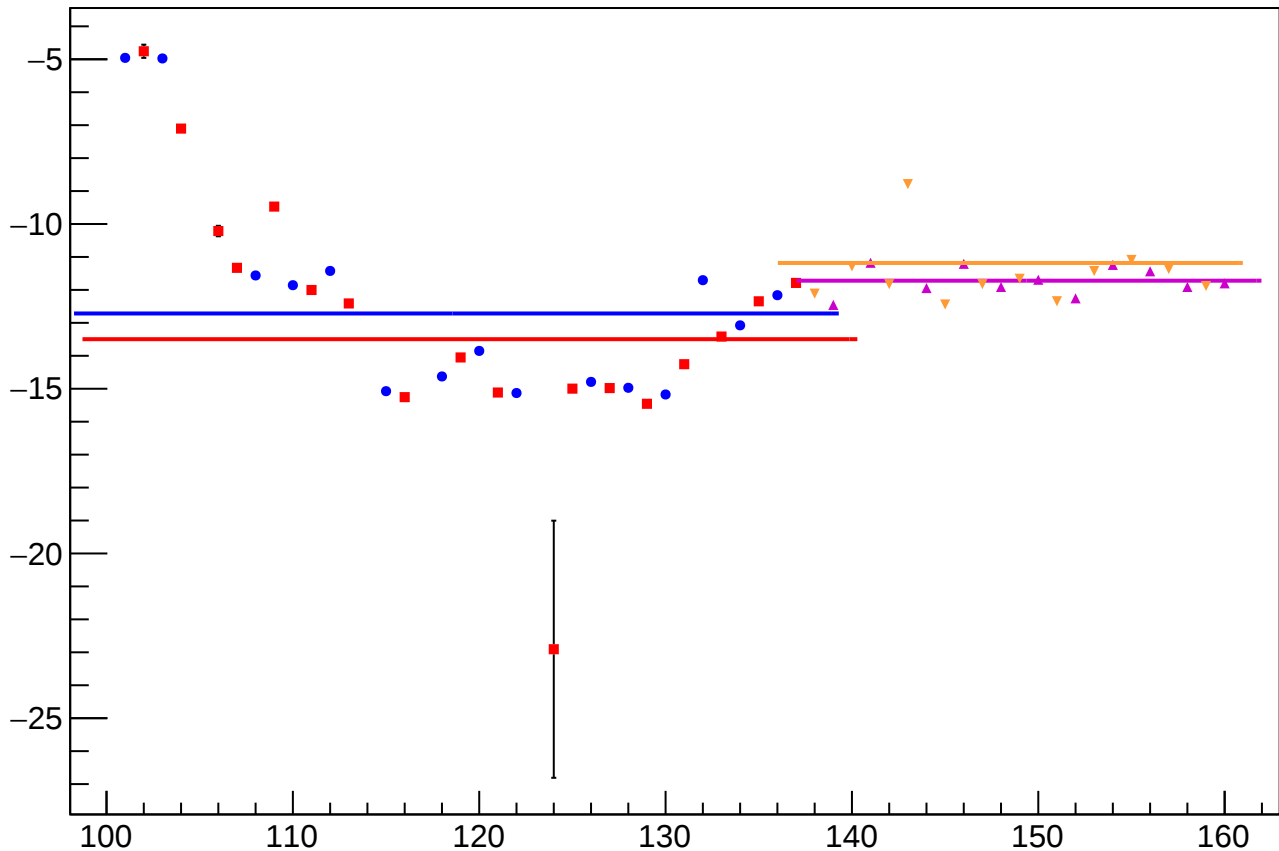
Right:  $5.970 \pm 0.000$   $\chi^2/\text{NDF}: 294275.6/32$

In:  $6.224 \pm 0.002$   $\chi^2/\text{NDF}: 134554.2/25$

Out:  $5.972 \pm 0.000$   $\chi^2/\text{NDF}: 209049.3/29$

All:  $5.987 \pm 0.000$   $\chi^2/\text{NDF}: 366898.7/55$

# dit\_sam7\_4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.715 \pm 0.006$   $\chi^2/\text{NDF}: 85219.4/14$

Left Out:  $-11.182 \pm 0.003$   $\chi^2/\text{NDF}: 191295.9/11$

Right Out:  $-13.496 \pm 0.006$   $\chi^2/\text{NDF}: 55753.8/17$

Left In:  $-11.720 \pm 0.002$   $\chi^2/\text{NDF}: 12301.1/10$

Left:  $-11.486 \pm 0.002$   $\chi^2/\text{NDF}: 225171.4/22$

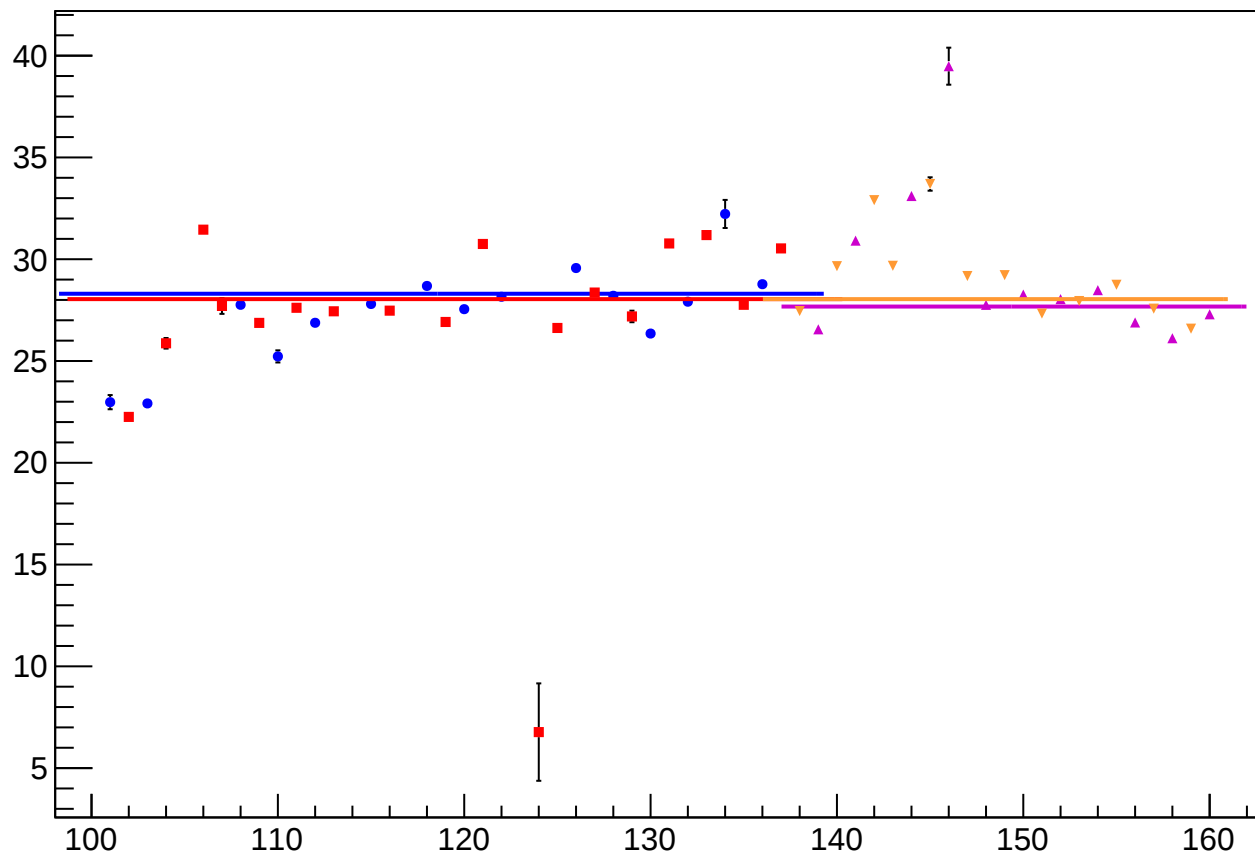
Right:  $-13.142 \pm 0.004$   $\chi^2/\text{NDF}: 149153.5/32$

In:  $-11.845 \pm 0.002$   $\chi^2/\text{NDF}: 118823.9/25$

Out:  $-11.606 \pm 0.002$   $\chi^2/\text{NDF}: 376502.1/29$

All:  $-11.737 \pm 0.002$   $\chi^2/\text{NDF}: 500360.7/55$

# dit\_sam8\_4aX\_slope vs Slug, Sign Corrected



Right In:  $28.304 \pm 0.023$   $\chi^2/\text{NDF}: 3400.0/14$

Left Out:  $28.040 \pm 0.023$   $\chi^2/\text{NDF}: 3306.2/11$

Right Out:  $28.040 \pm 0.030$   $\chi^2/\text{NDF}: 2561.5/17$

Left In:  $27.675 \pm 0.017$   $\chi^2/\text{NDF}: 4532.4/10$

Left:  $27.807 \pm 0.014$   $\chi^2/\text{NDF}: 7996.9/22$

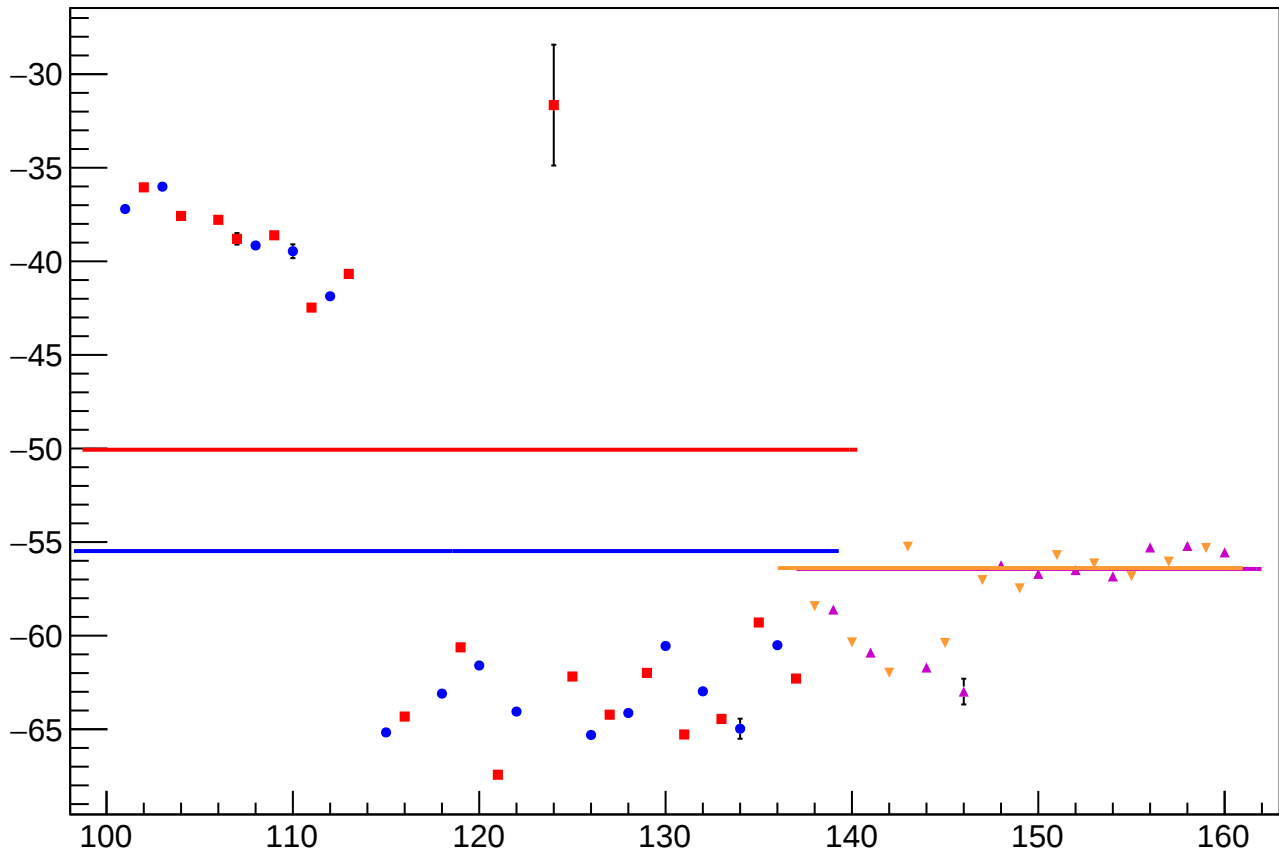
Right:  $28.207 \pm 0.018$   $\chi^2/\text{NDF}: 6009.6/32$

In:  $27.903 \pm 0.014$   $\chi^2/\text{NDF}: 8405.7/25$

Out:  $28.040 \pm 0.018$   $\chi^2/\text{NDF}: 5867.7/29$

All:  $27.953 \pm 0.011$   $\chi^2/\text{NDF}: 14308.5/55$

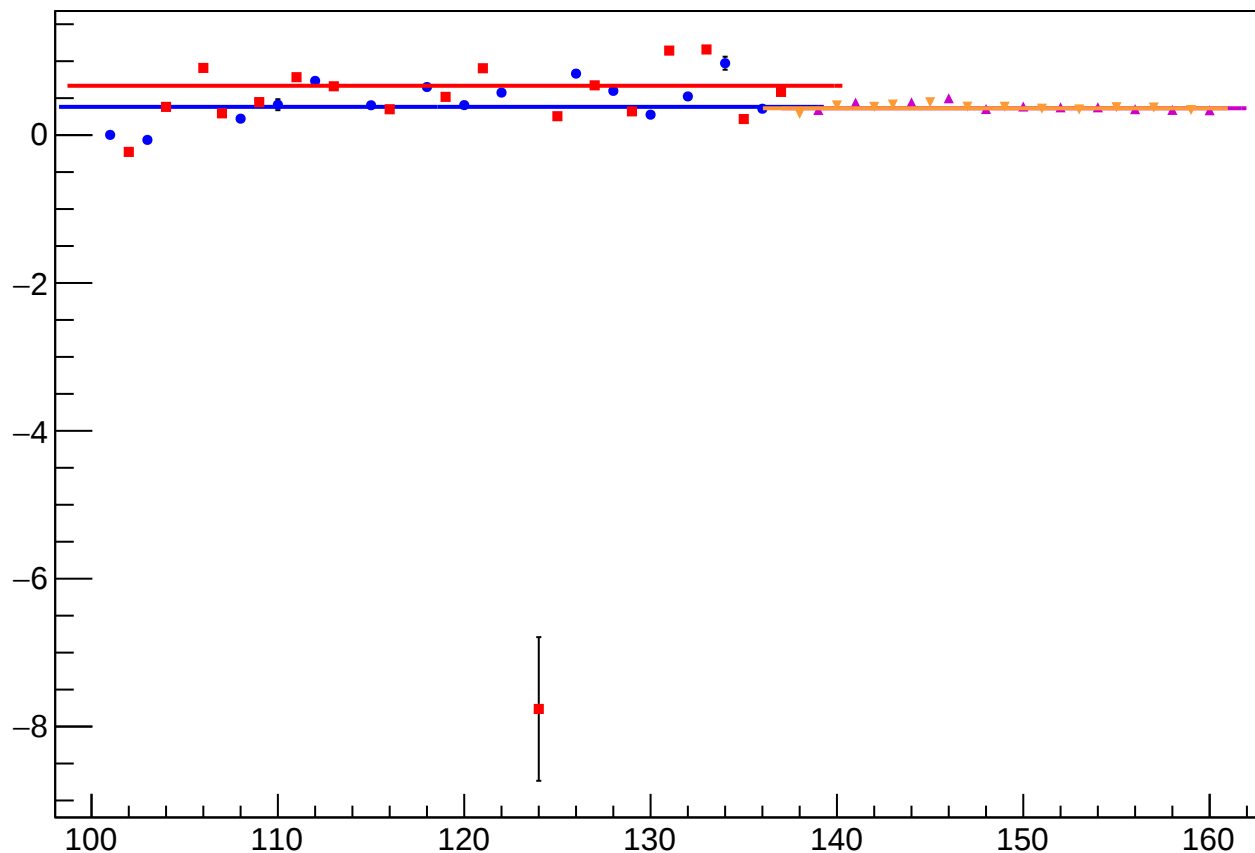
# dit\_sam8\_4eX\_slope vs Slug, Sign Corrected



Right In:  $-55.480 \pm 0.017$   $\chi^2/\text{NDF}: 595140.3/14$   
 Left Out:  $-56.388 \pm 0.020$   $\chi^2/\text{NDF}: 5555.4/11$   
 Right Out:  $-50.065 \pm 0.023$   $\chi^2/\text{NDF}: 340098.3/17$   
 Left In:  $-56.436 \pm 0.015$   $\chi^2/\text{NDF}: 7911.0/10$

Left:  $-56.419 \pm 0.012$   $\chi^2/\text{NDF}: 13470.1/22$   
 Right:  $-53.644 \pm 0.013$   $\chi^2/\text{NDF}: 971470.1/32$   
 In:  $-56.016 \pm 0.011$   $\chi^2/\text{NDF}: 604920.3/25$   
 Out:  $-53.722 \pm 0.015$   $\chi^2/\text{NDF}: 388887.1/29$   
 All:  $-55.217 \pm 0.009$   $\chi^2/\text{NDF}: 1009019.5/55$

# dit\_sam8\_11X12X\_slope vs Slug, Sign Corrected



Right In:  $0.382 \pm 0.002$   $\chi^2/\text{NDF}: 4595.8/14$

Left Out:  $0.363 \pm 0.000$   $\chi^2/\text{NDF}: 3425.4/11$

Right Out:  $0.668 \pm 0.005$   $\chi^2/\text{NDF}: 3704.8/17$

Left In:  $0.363 \pm 0.000$   $\chi^2/\text{NDF}: 4874.8/10$

Left:  $0.363 \pm 0.000$   $\chi^2/\text{NDF}: 8300.7/22$

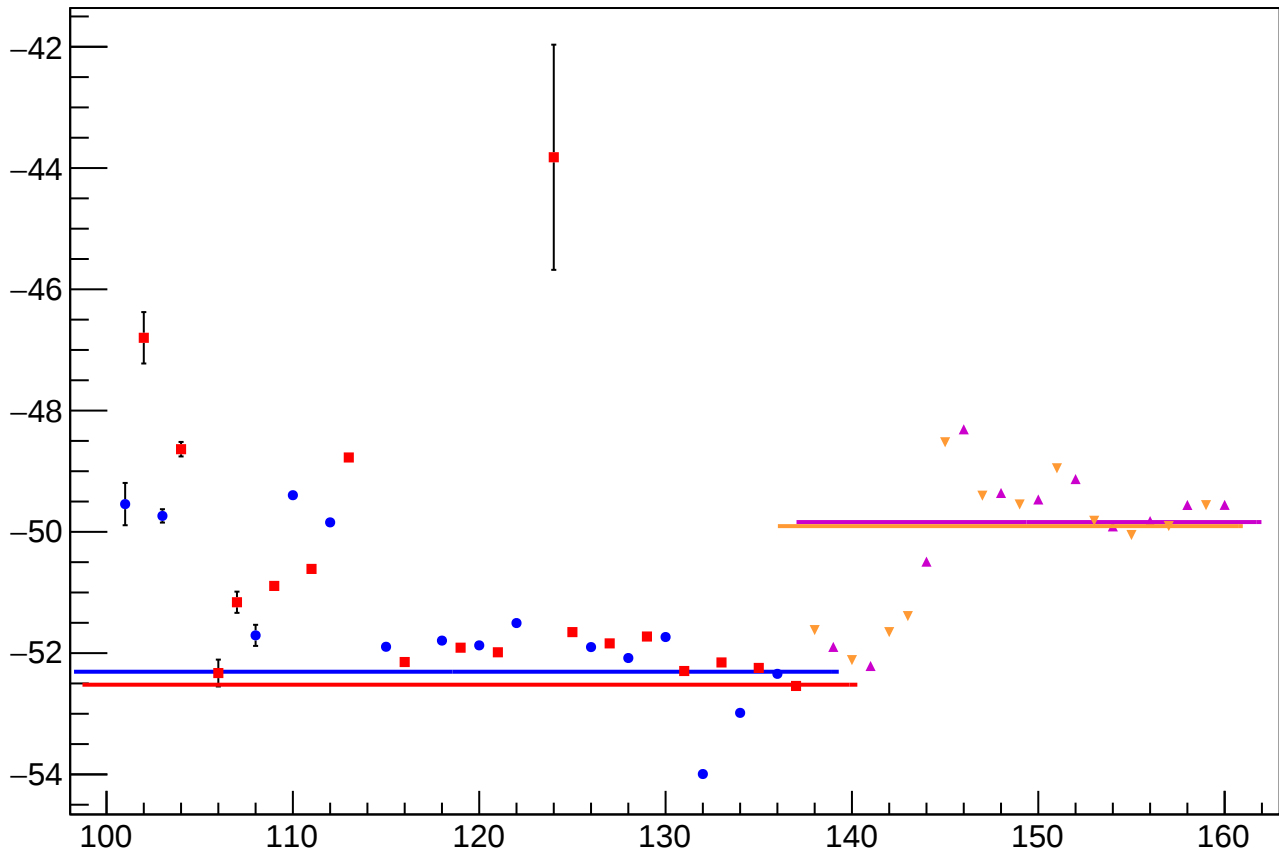
Right:  $0.413 \pm 0.002$   $\chi^2/\text{NDF}: 11721.4/32$

In:  $0.364 \pm 0.000$   $\chi^2/\text{NDF}: 9601.3/25$

Out:  $0.366 \pm 0.000$   $\chi^2/\text{NDF}: 11462.4/29$

All:  $0.365 \pm 0.000$   $\chi^2/\text{NDF}: 21069.5/55$

# dit\_sam8\_4aY\_slope vs Slug, Sign Corrected



Right In: -52.307 $\pm$ 0.004  $\chi^2$ /NDF: 25427.4/14

Left Out: -49.906 $\pm$ 0.002  $\chi^2$ /NDF: 158891.5/11

Right Out: -52.521 $\pm$ 0.001  $\chi^2$ /NDF: 14961.7/17

Left In: -49.838 $\pm$ 0.002  $\chi^2$ /NDF: 232394.5/10

Left: -49.867 $\pm$ 0.001  $\chi^2$ /NDF: 391999.6/22

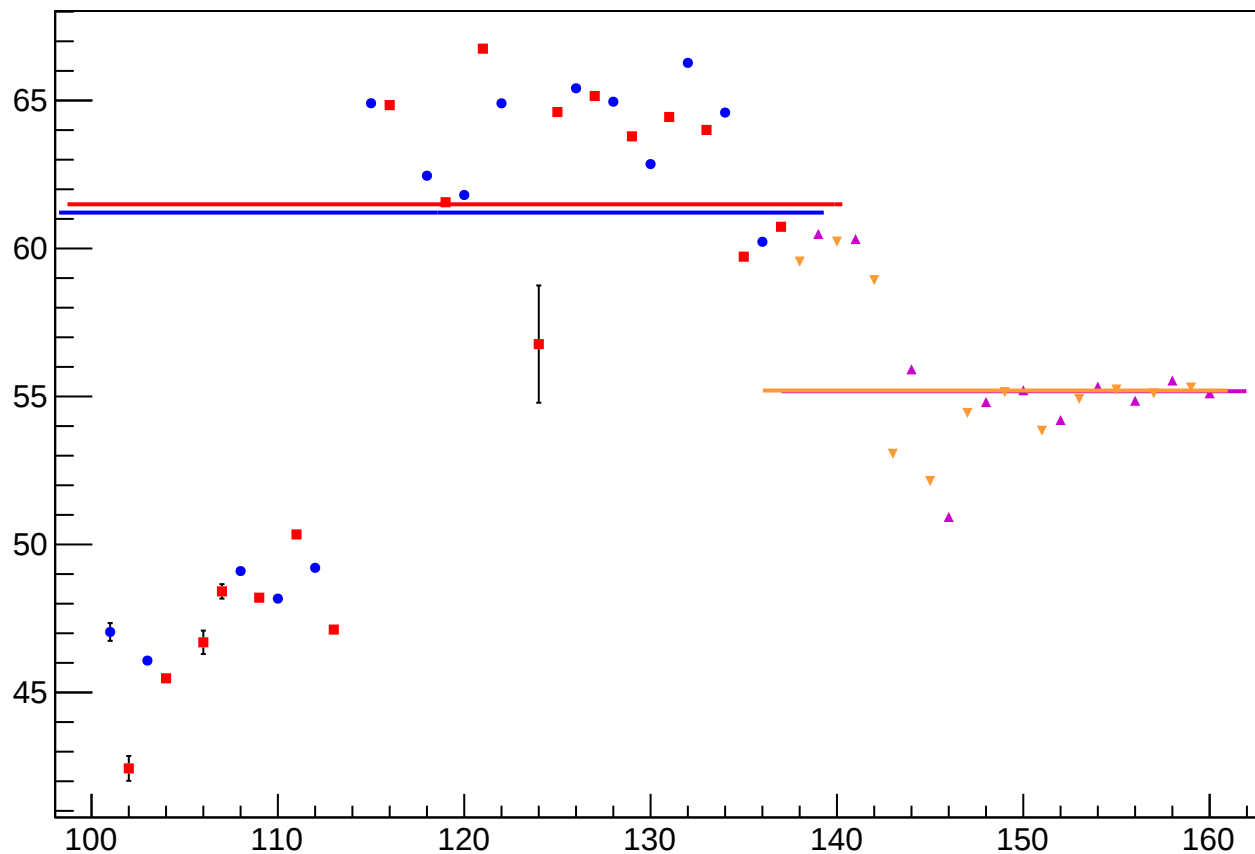
Right: -52.505 $\pm$ 0.001  $\chi^2$ /NDF: 43203.2/32

In: -50.217 $\pm$ 0.002  $\chi^2$ /NDF: 600370.4/25

Out: -51.862 $\pm$ 0.001  $\chi^2$ /NDF: 1589785.5/29

All: -51.397 $\pm$ 0.001  $\chi^2$ /NDF: 3030727.5/55

# dit\_sam8\_4eY\_slope vs Slug, Sign Corrected



Right In:  $61.213 \pm 0.010$   $\chi^2/\text{NDF}$ : 156624.5/14

Left Out:  $55.201 \pm 0.004$   $\chi^2/\text{NDF}$ : 194629.3/11

Right Out:  $61.493 \pm 0.007$   $\chi^2/\text{NDF}$ : 243479.8/17

Left In:  $55.177 \pm 0.003$   $\chi^2/\text{NDF}$ : 60987.3/10

Left:  $55.187 \pm 0.002$   $\chi^2/\text{NDF}$ : 255640.1/22

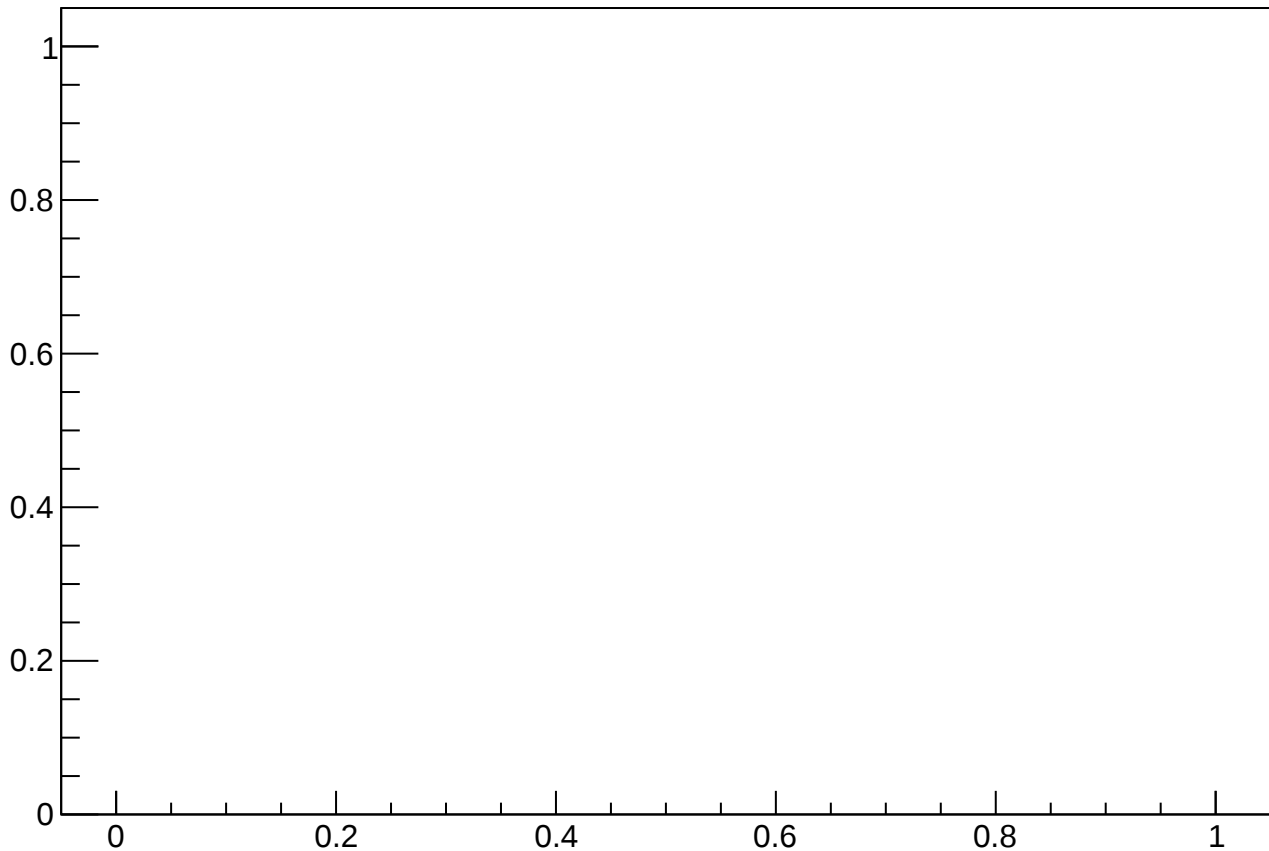
Right:  $61.405 \pm 0.006$   $\chi^2/\text{NDF}$ : 400649.5/32

In:  $55.719 \pm 0.003$   $\chi^2/\text{NDF}$ : 554035.5/25

Out:  $56.751 \pm 0.003$   $\chi^2/\text{NDF}$ : 1099317.5/29

All:  $56.177 \pm 0.002$   $\chi^2/\text{NDF}$ : 1706682.3/55

# dit\_4aX\_coil1\_mean vs Slug, Sign Corrected



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

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

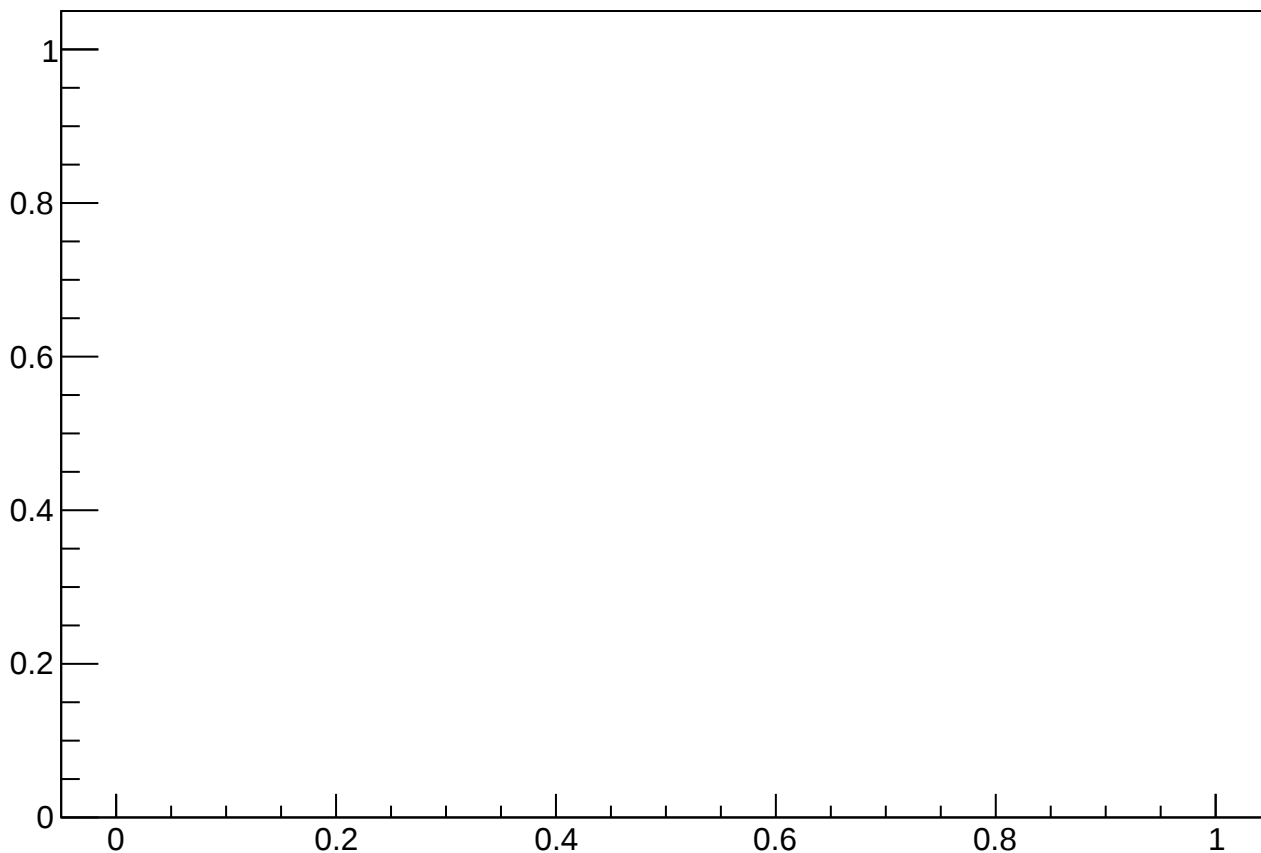
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aX\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

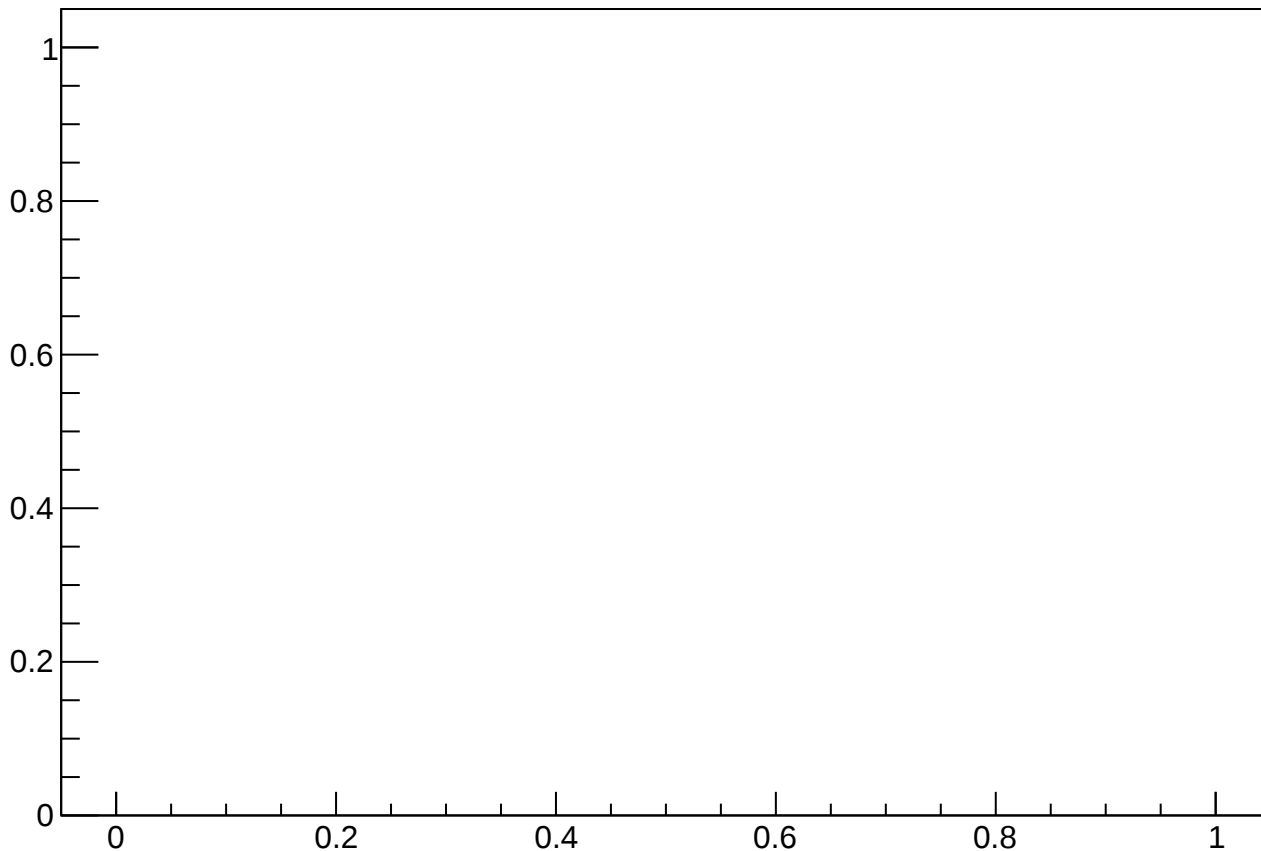
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

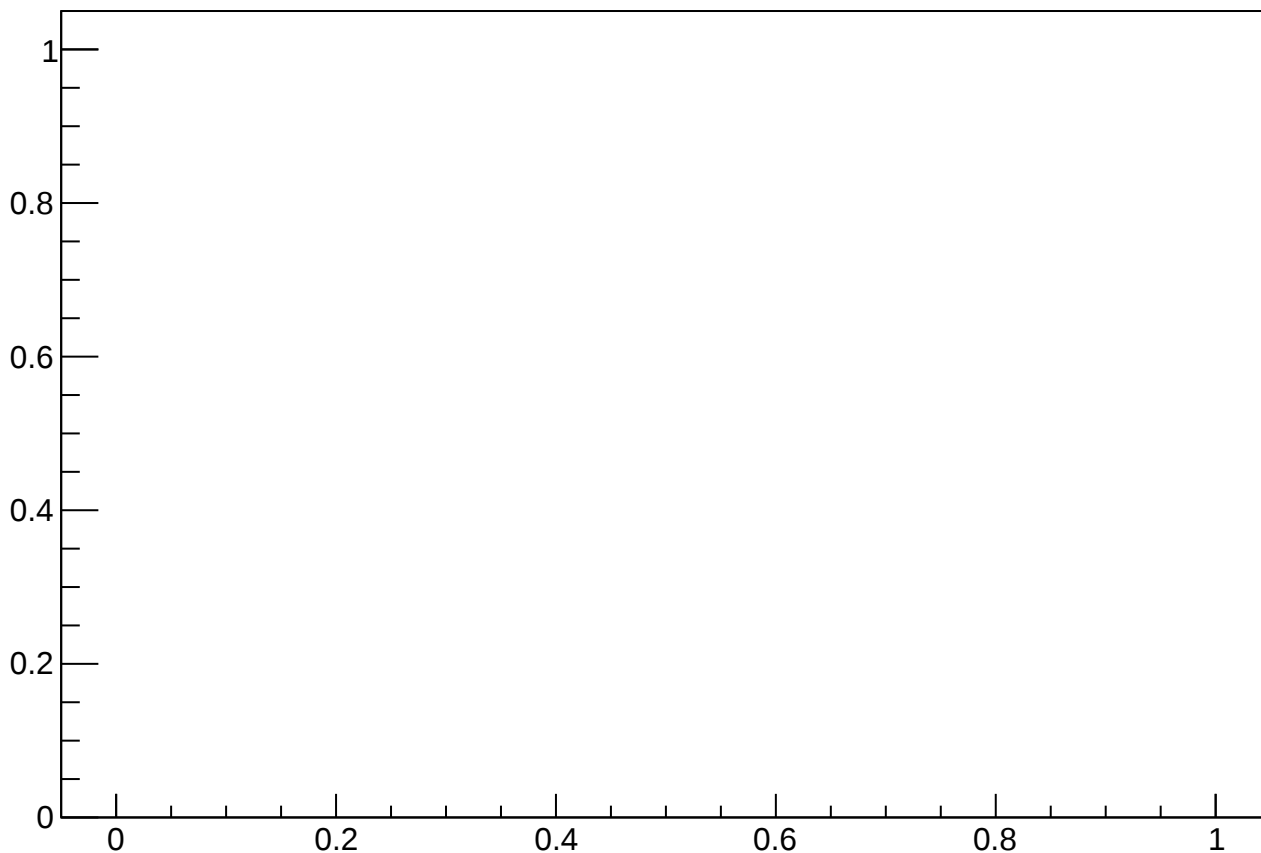
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil1\_mean vs Slug, Sign Corrected



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

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

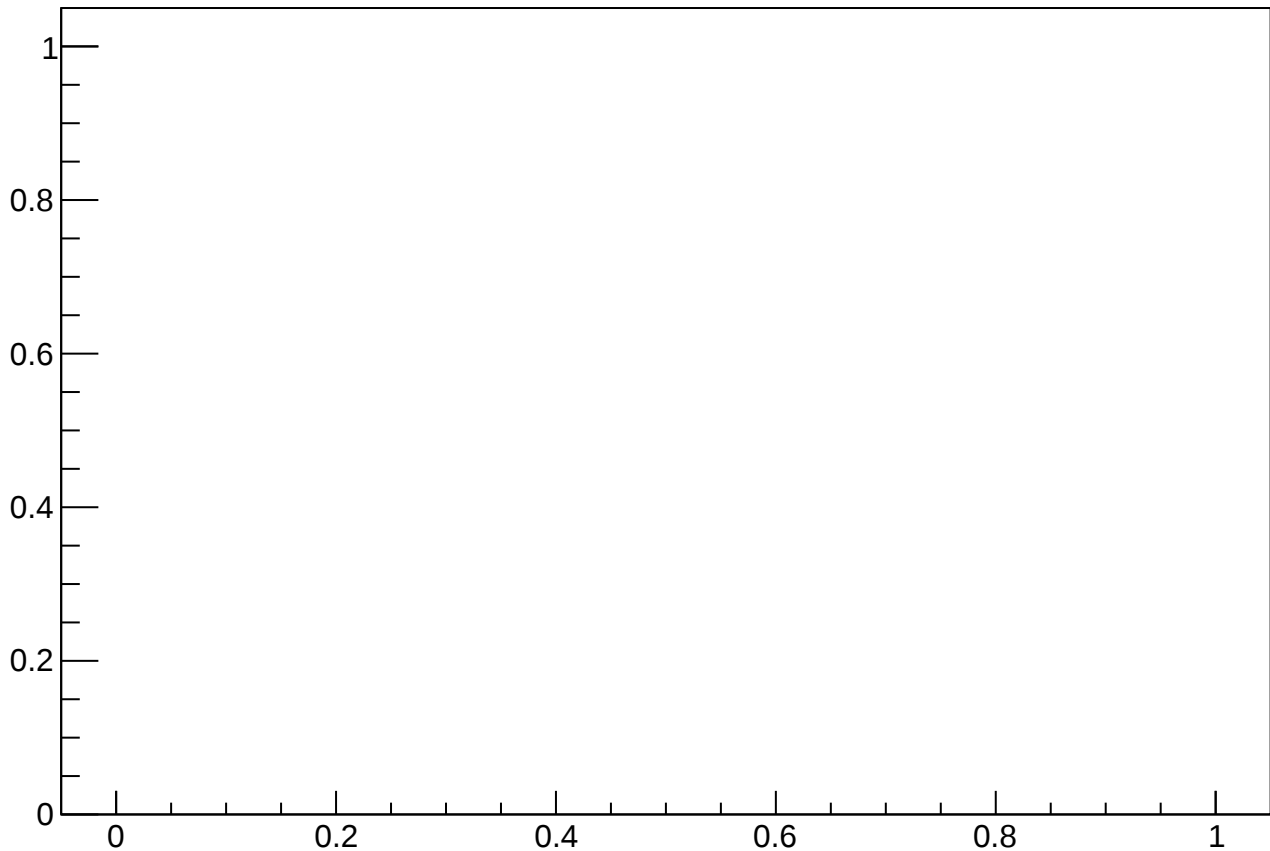
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

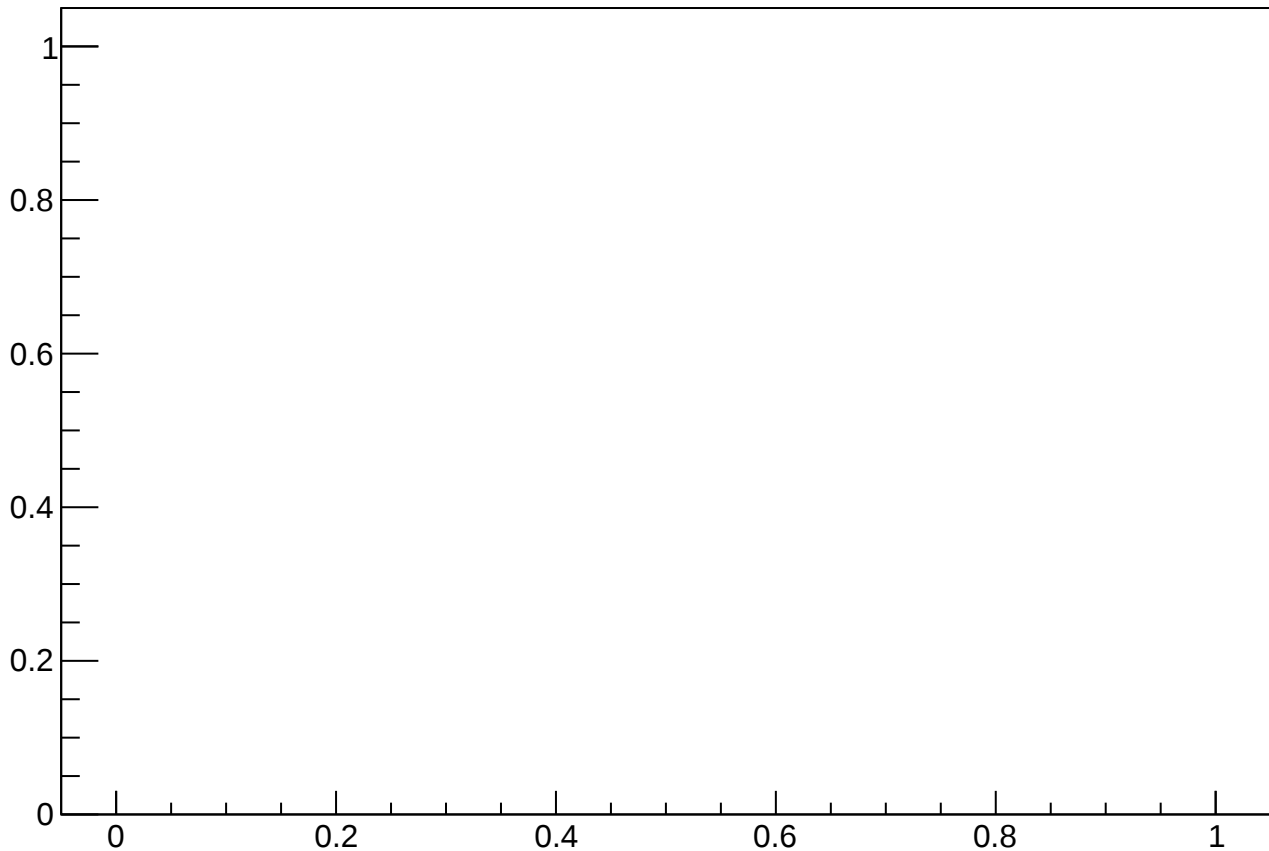
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eX\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

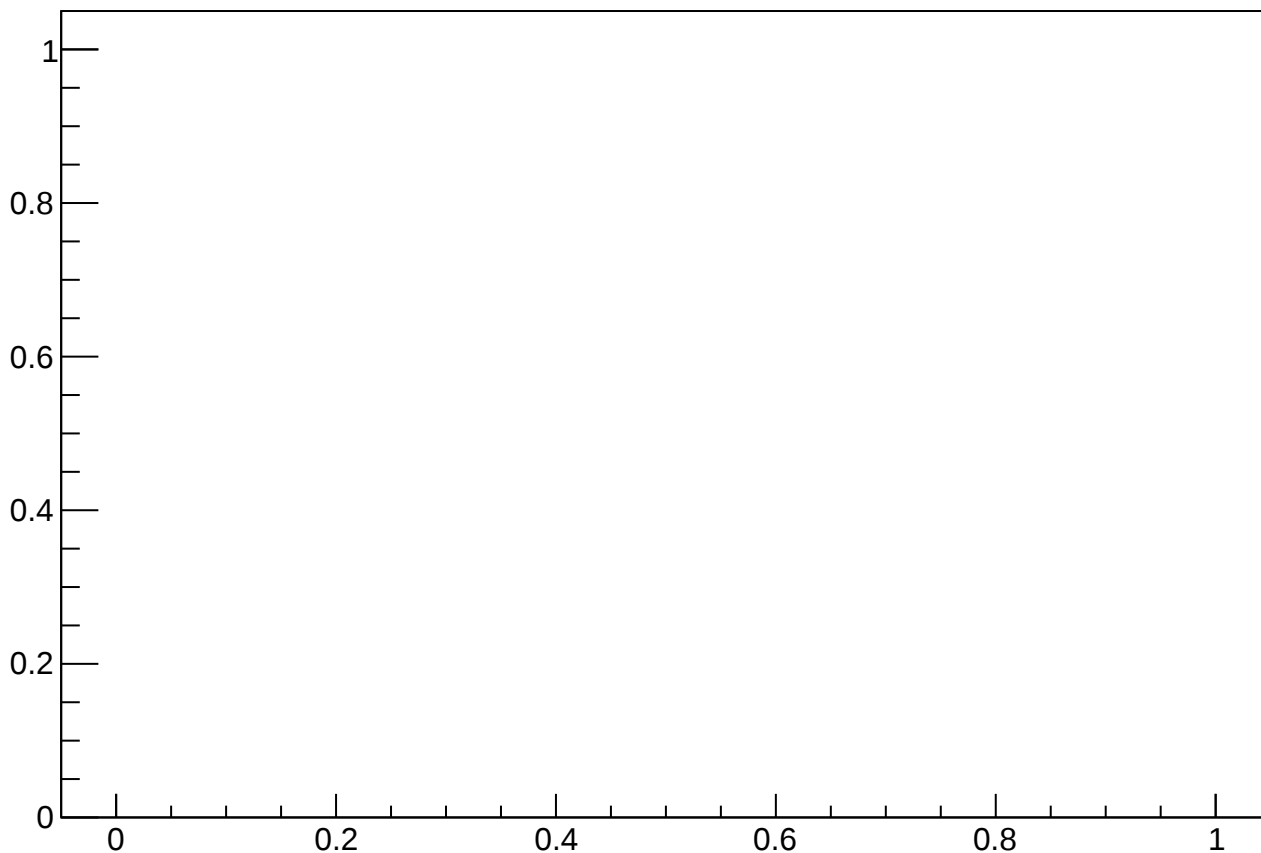
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_11X12X\_coil1\_mean vs Slug, Sign Corrected



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

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

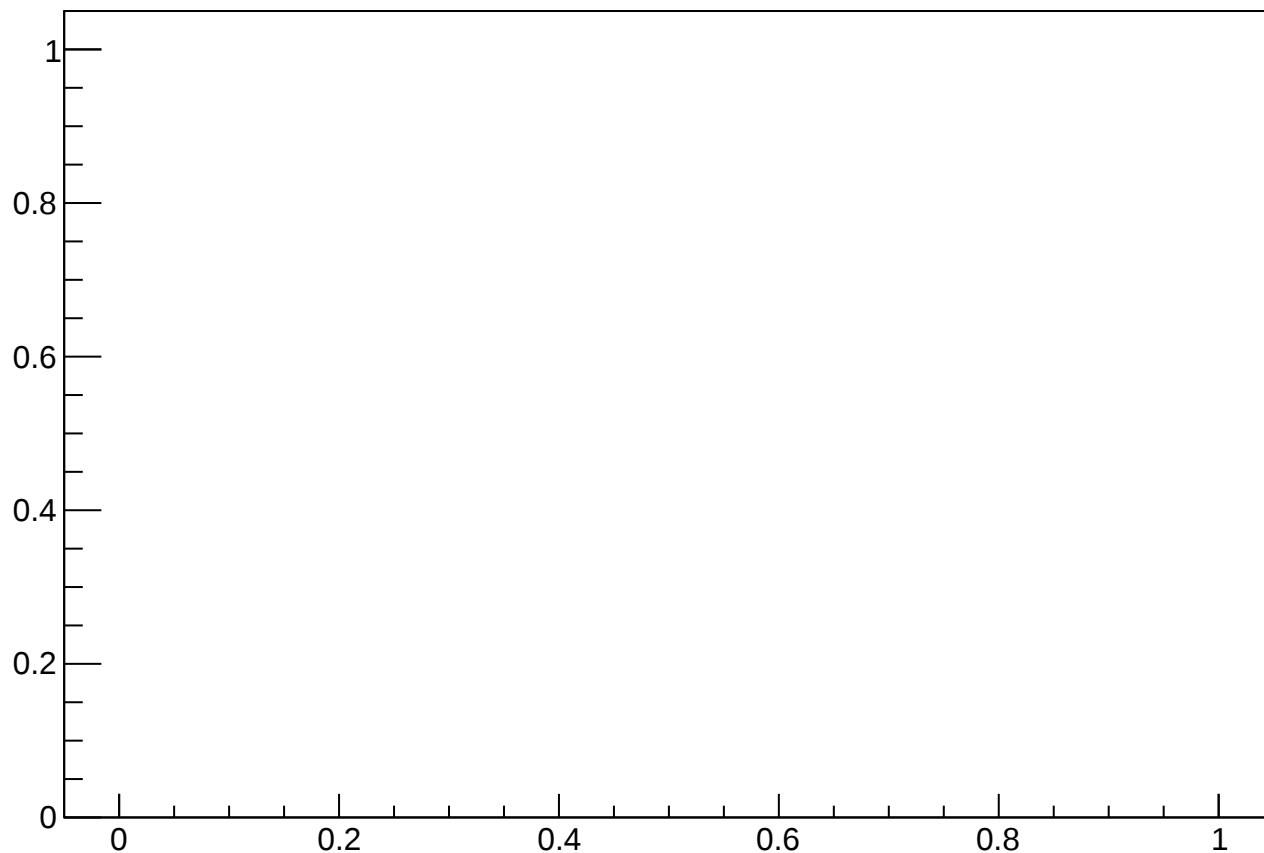
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

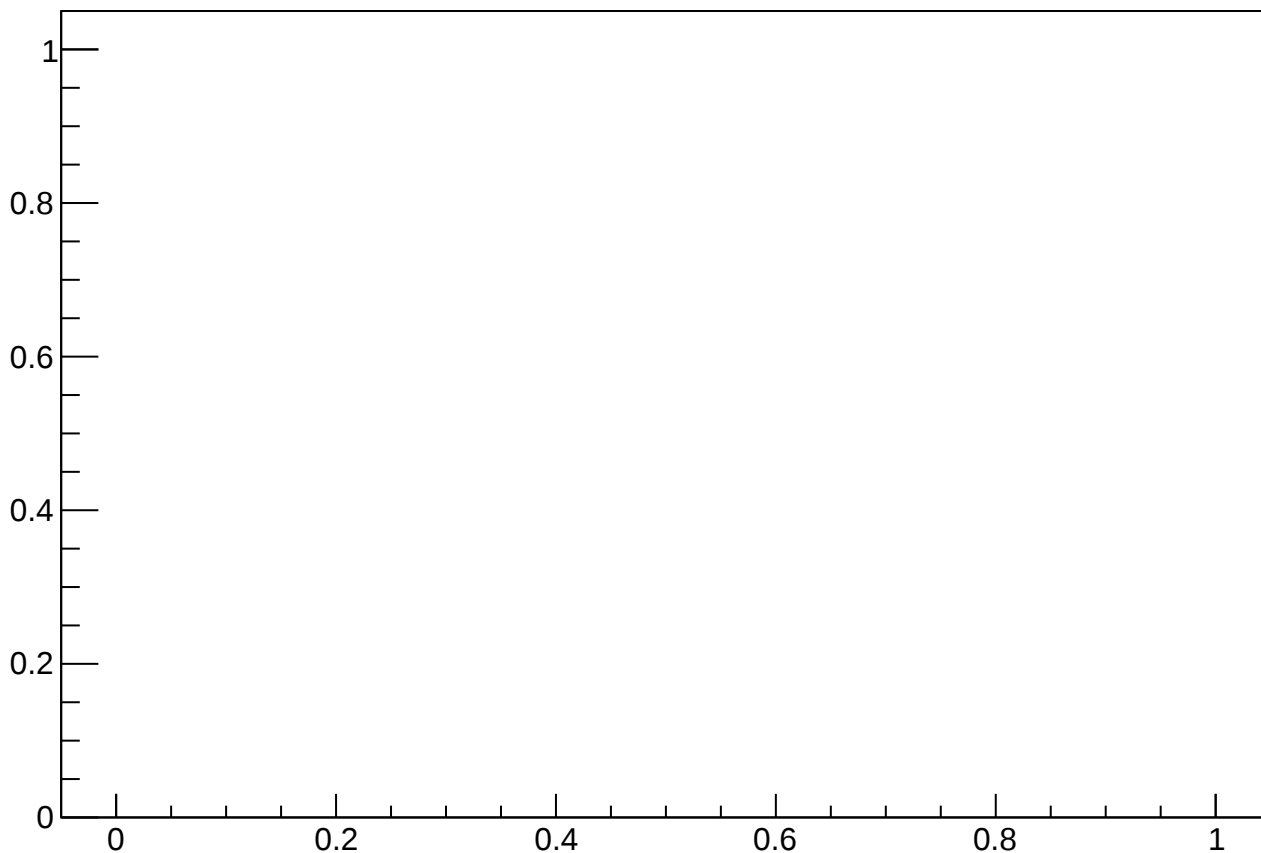
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

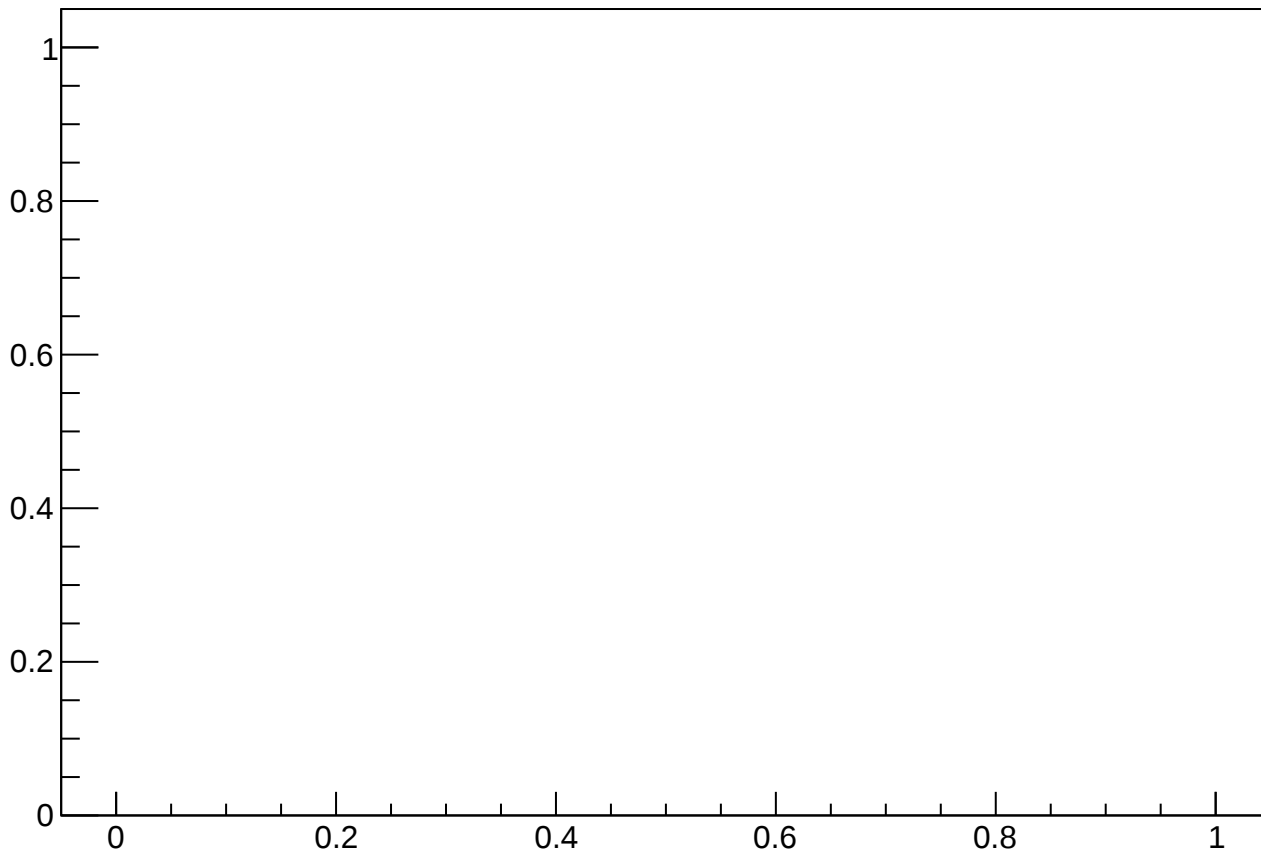
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil1\_mean vs Slug, Sign Corrected



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

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

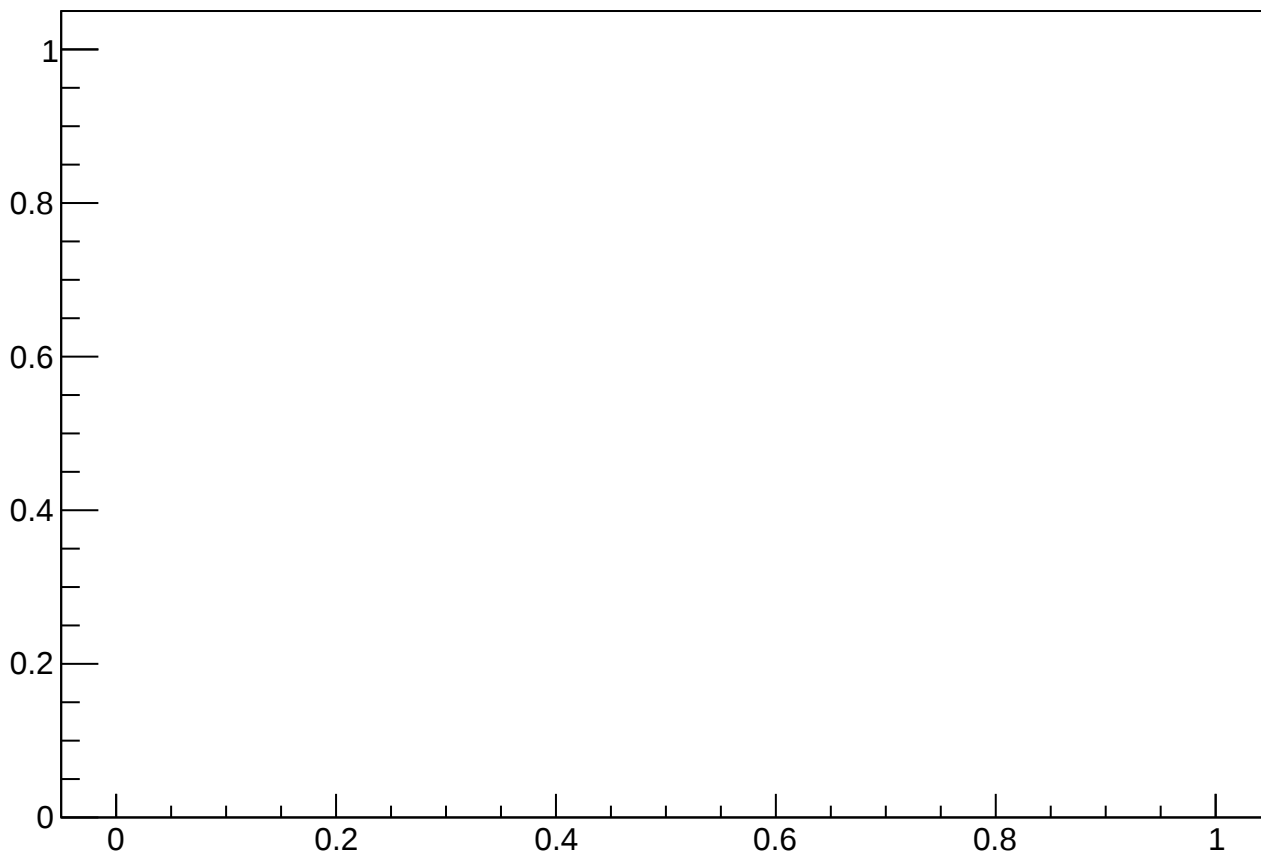
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aY\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

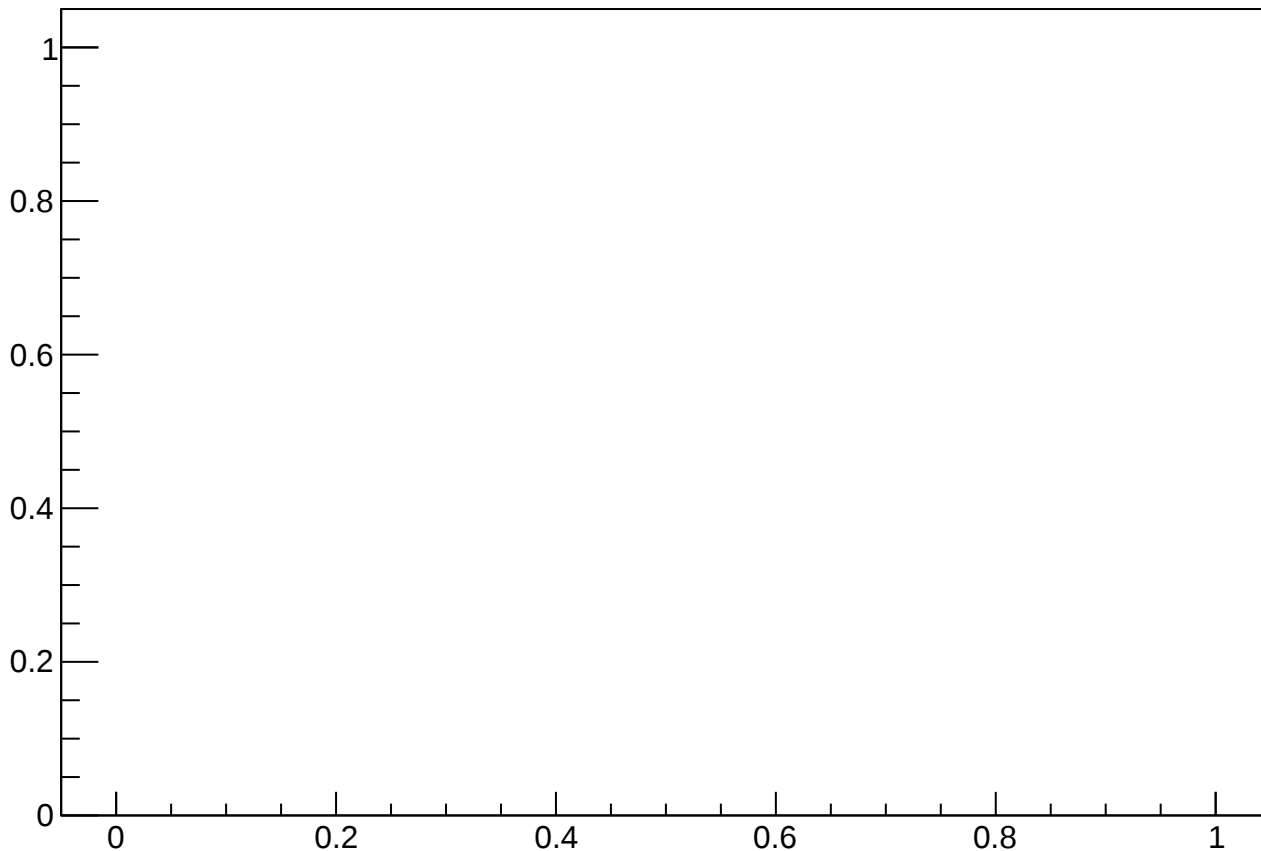
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

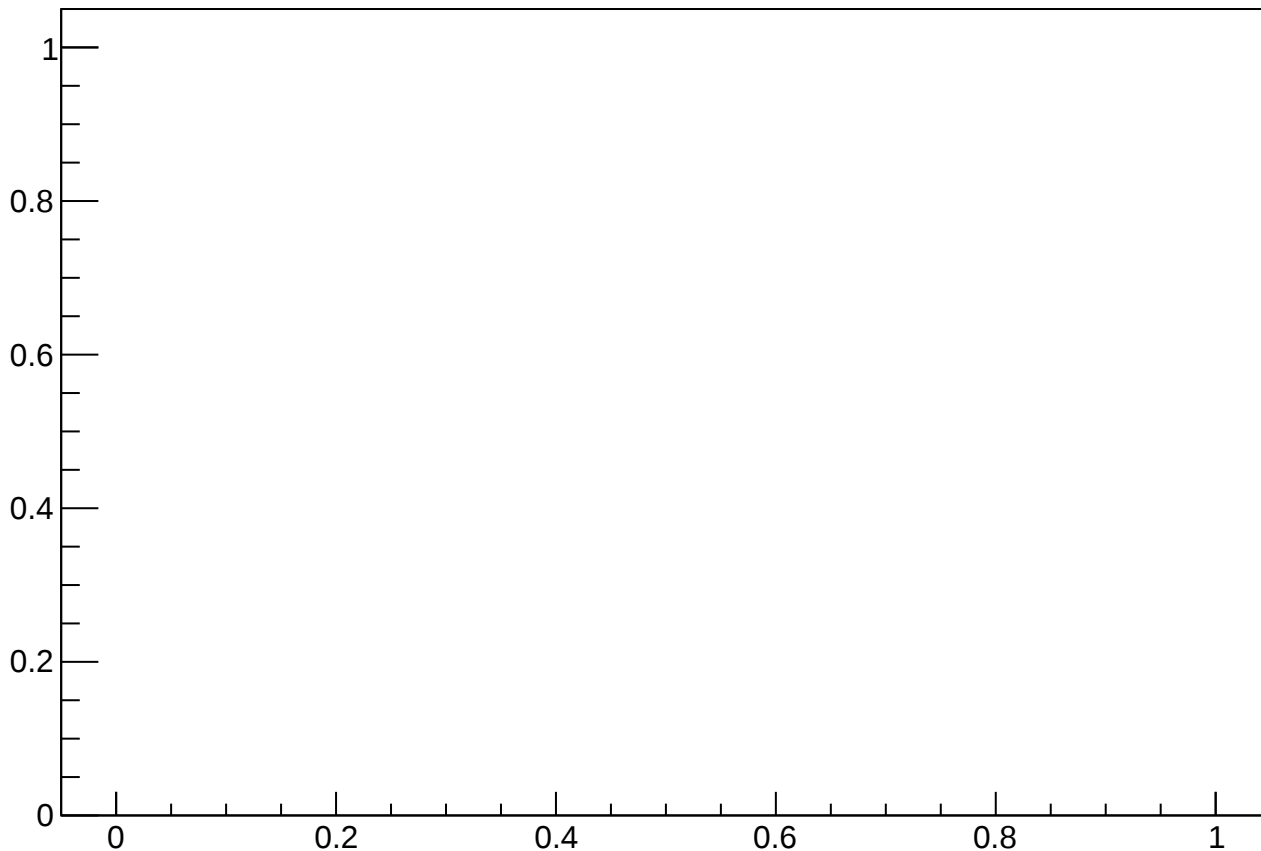
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil1\_mean vs Slug, Sign Corrected



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

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

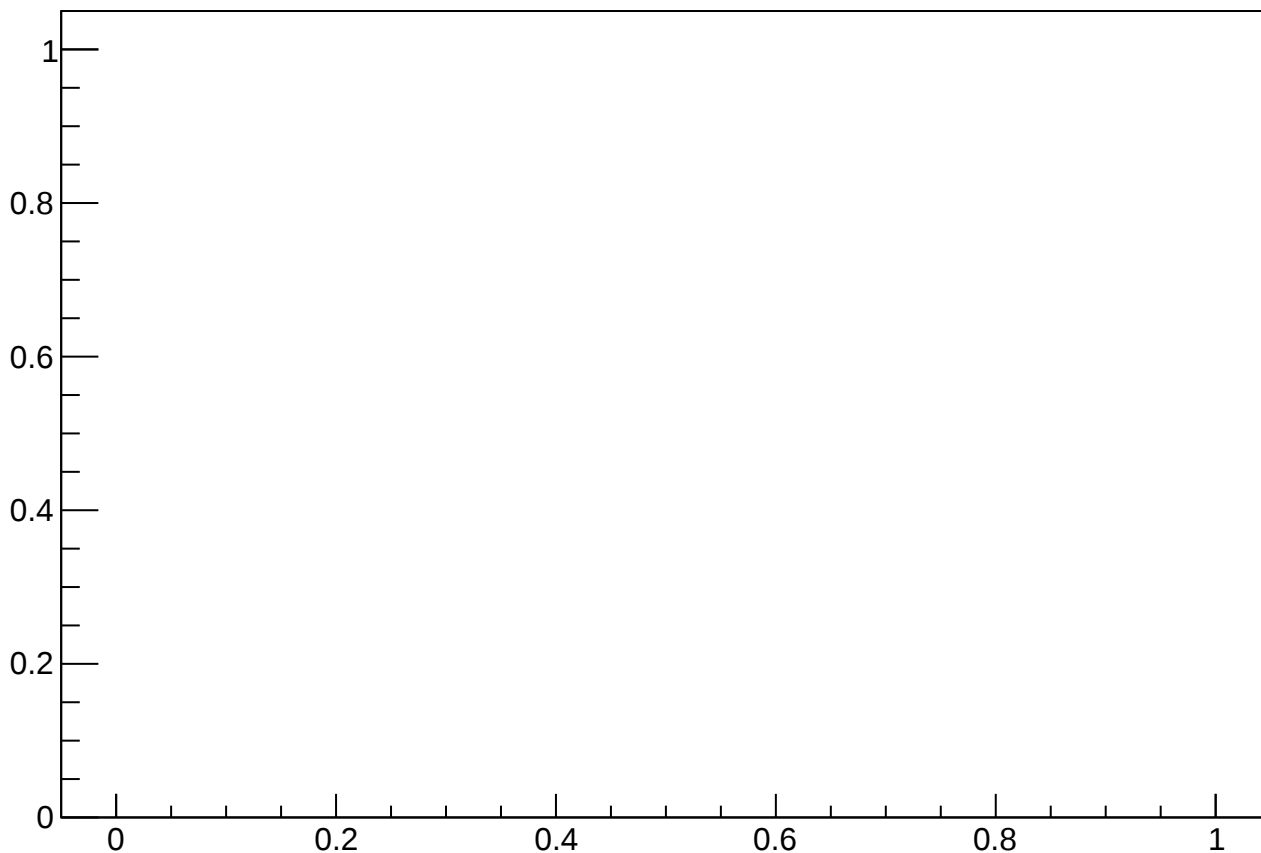
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

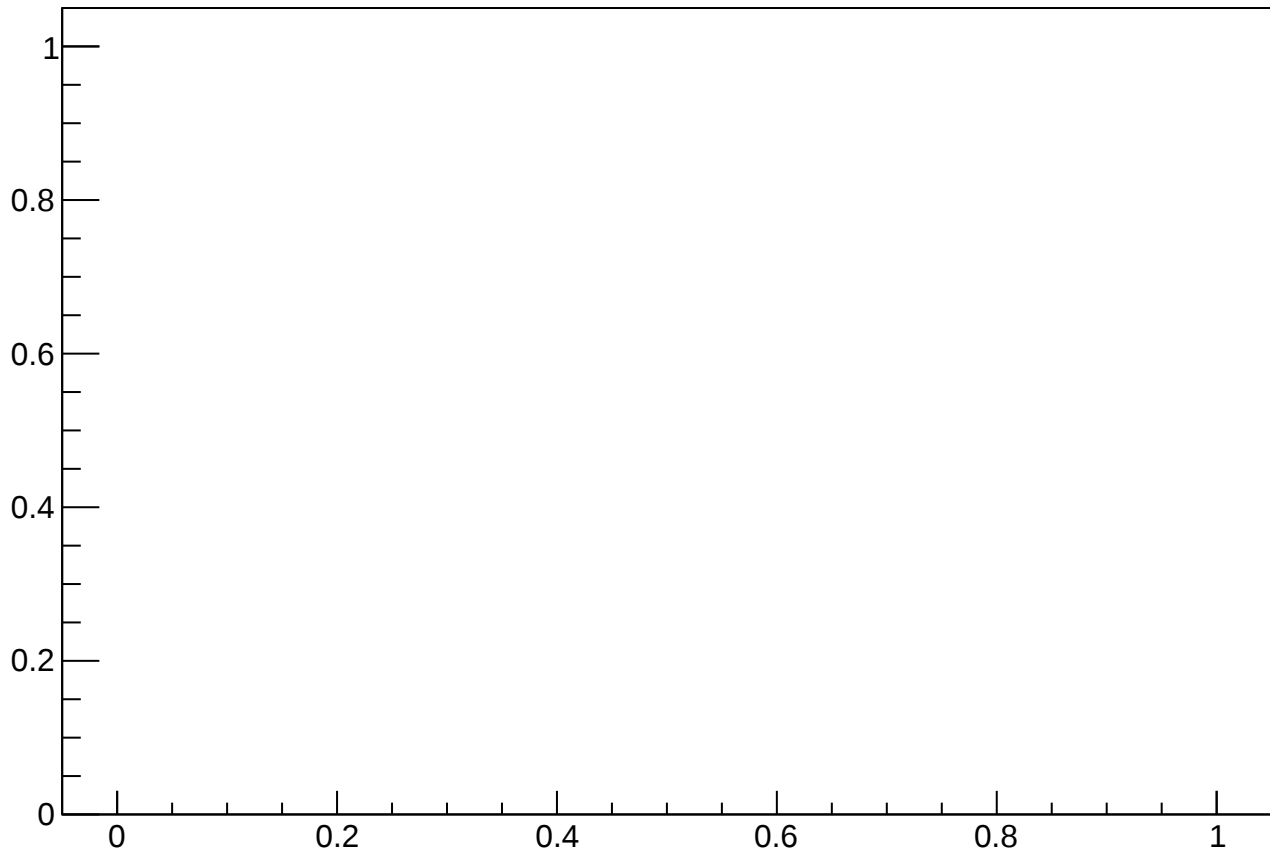
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eY\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

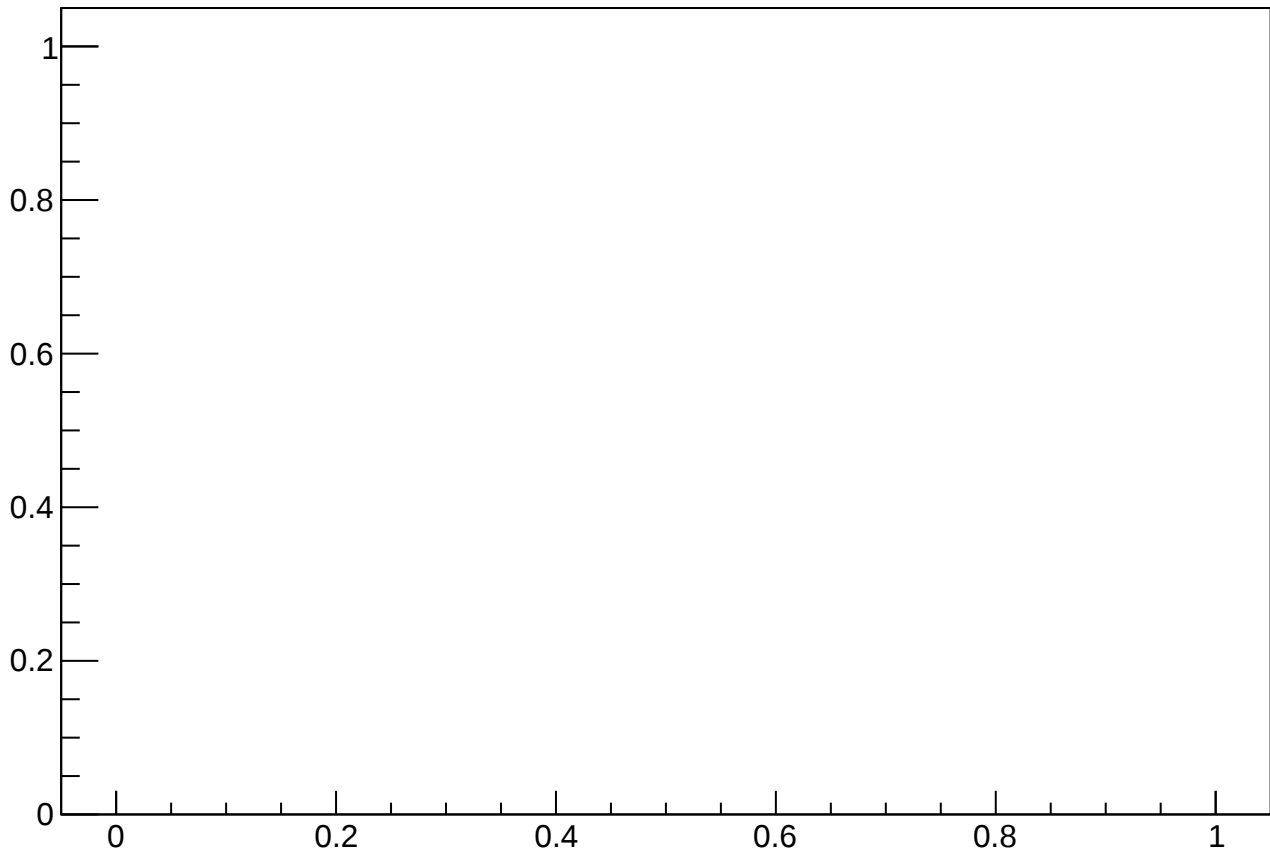
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usl\_coil1\_mean vs Slug, Sign Corrected



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

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

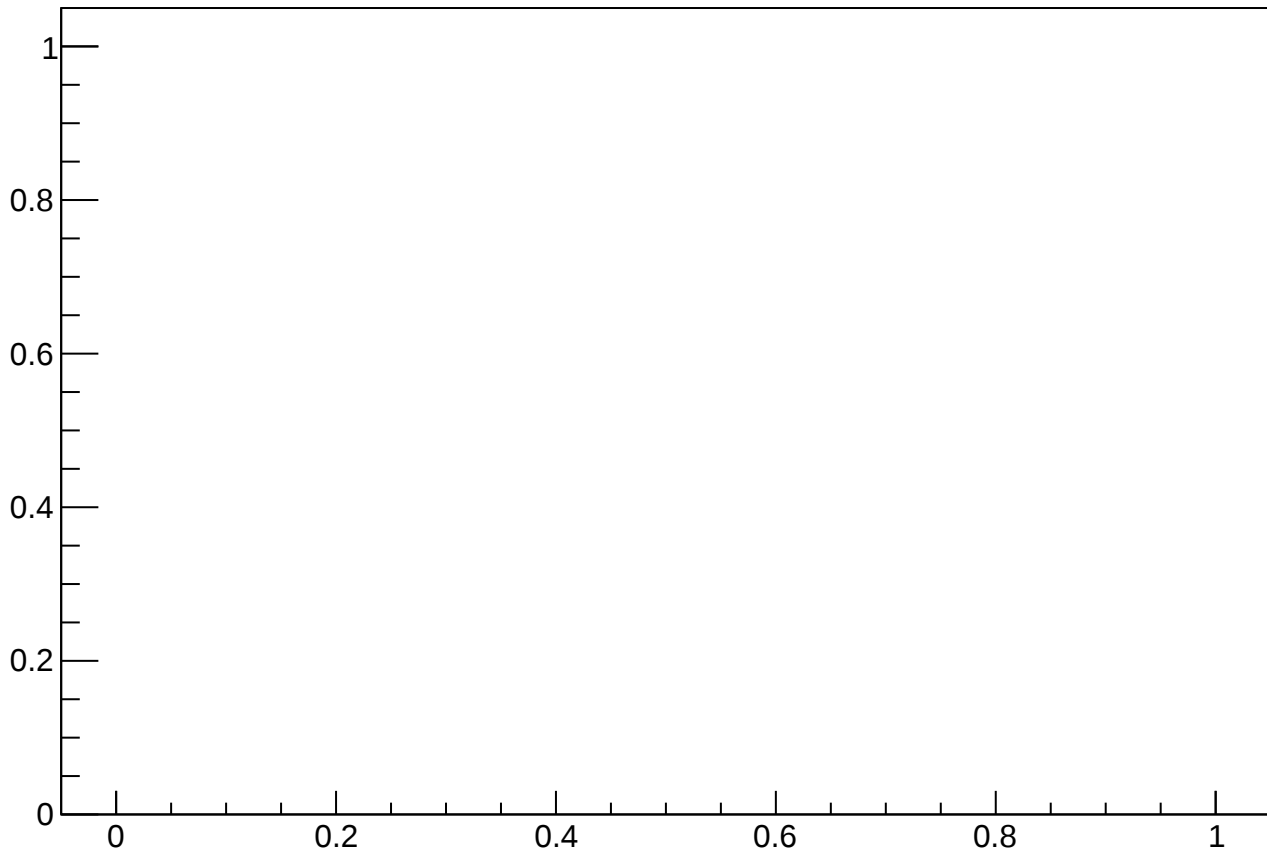
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usl\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

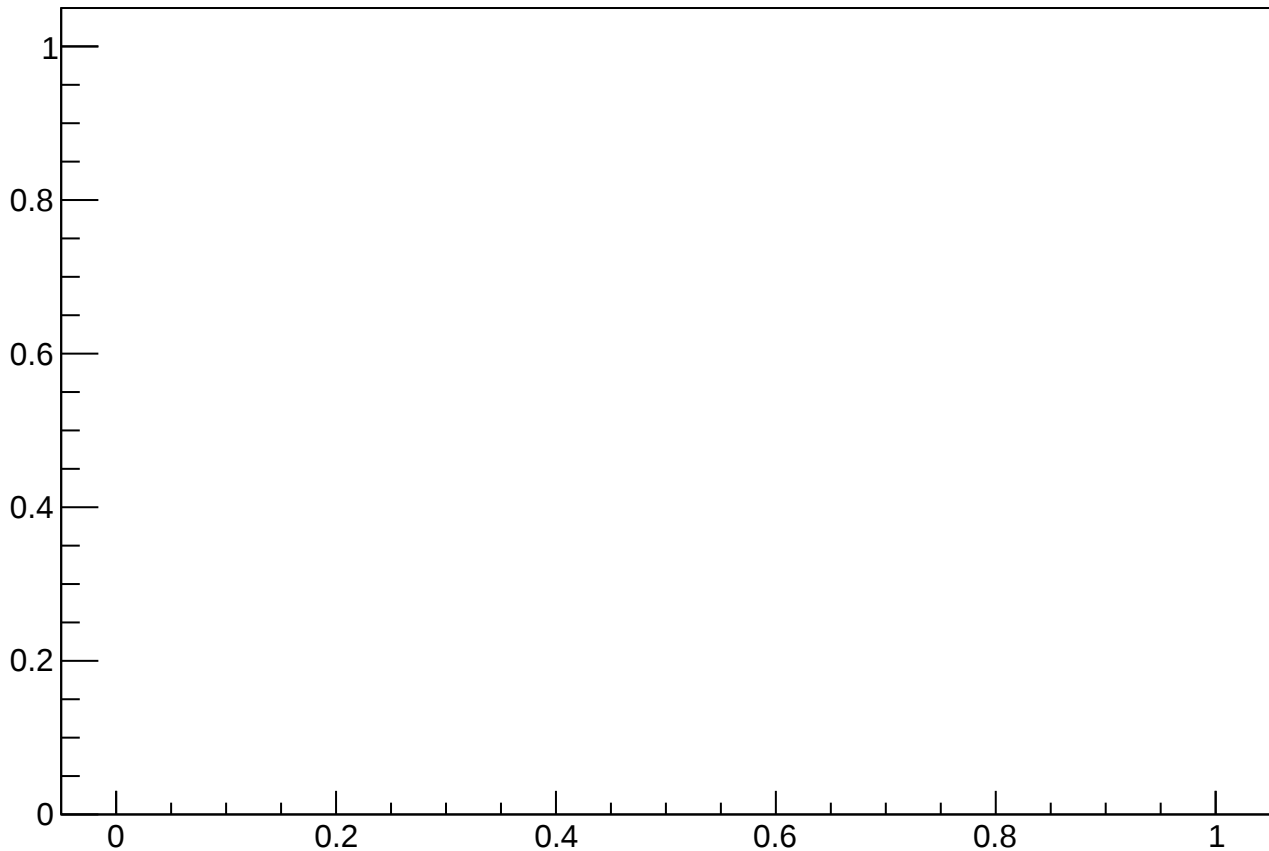
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usl\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

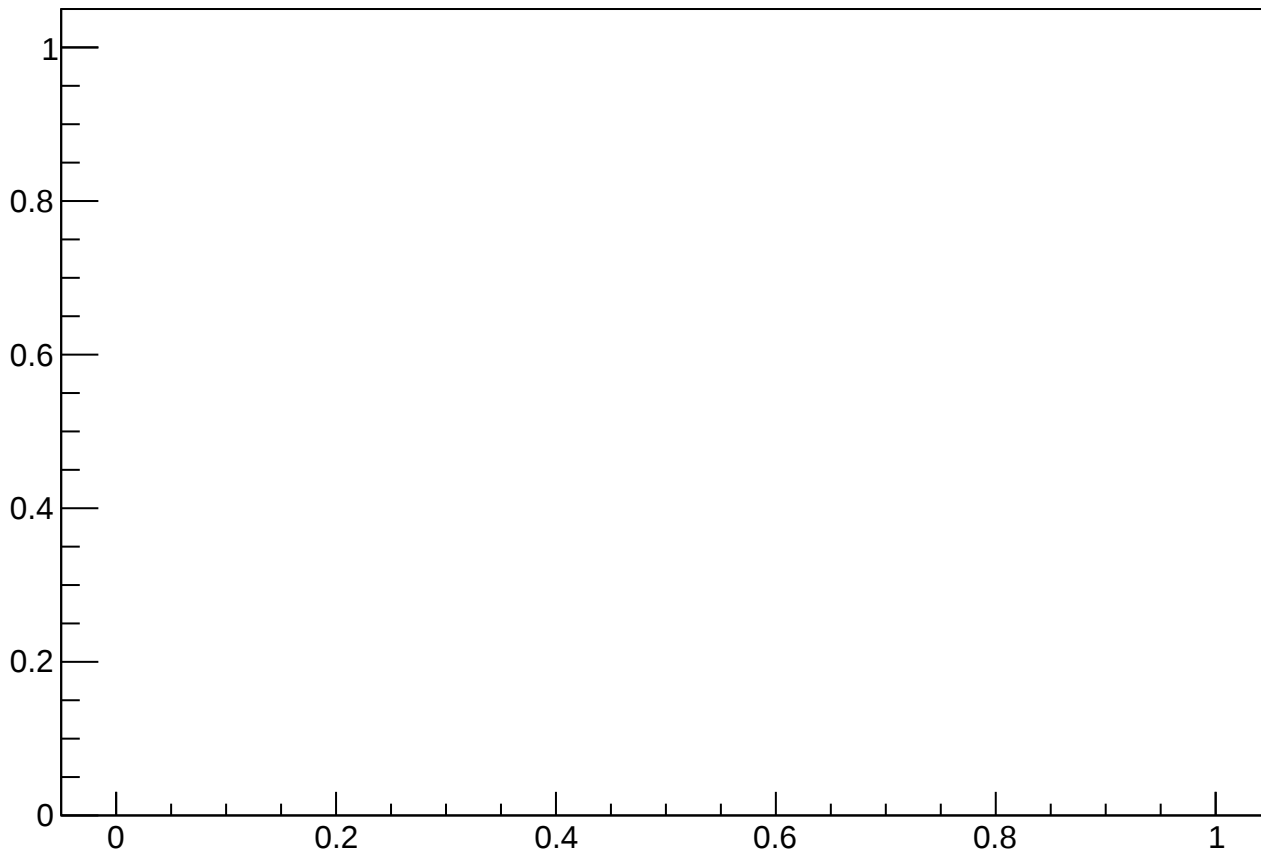
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil1\_mean vs Slug, Sign Corrected



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

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

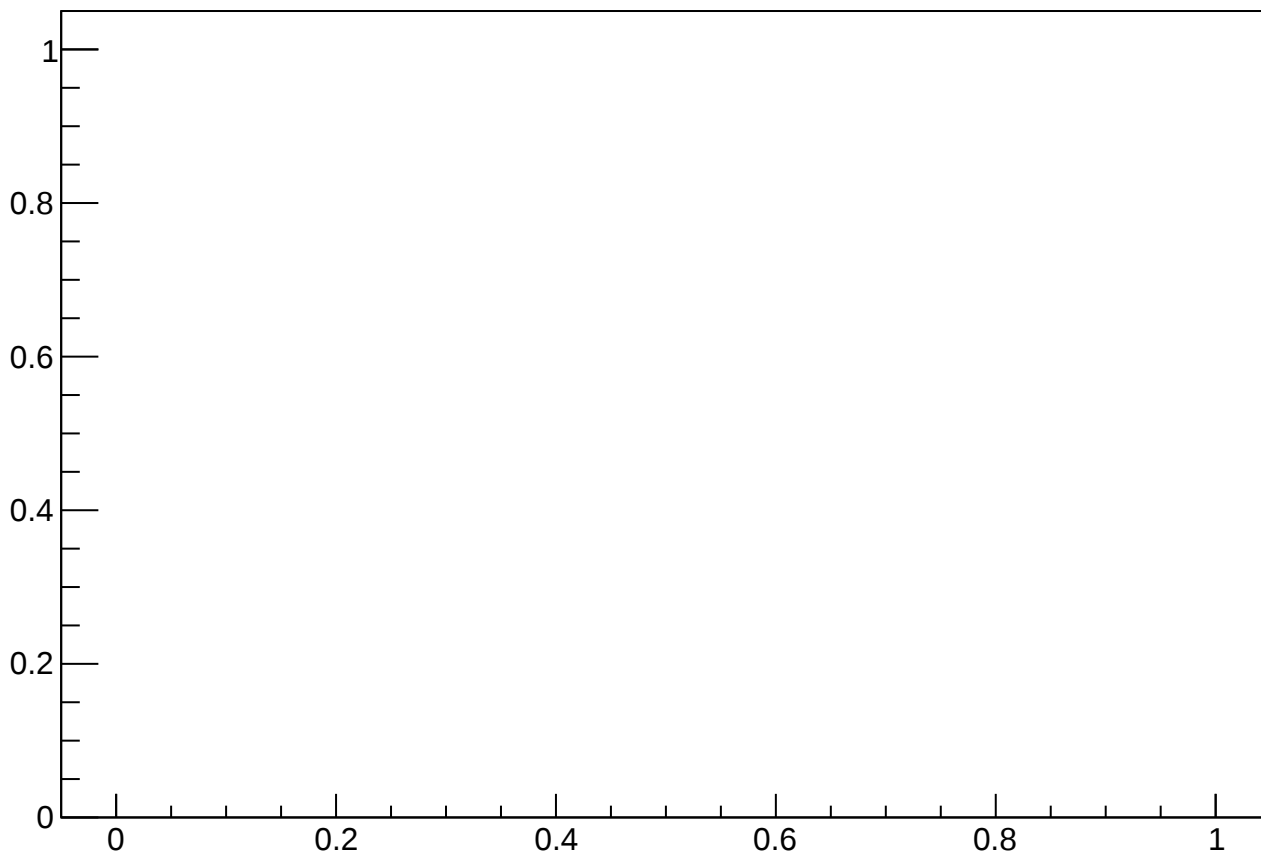
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

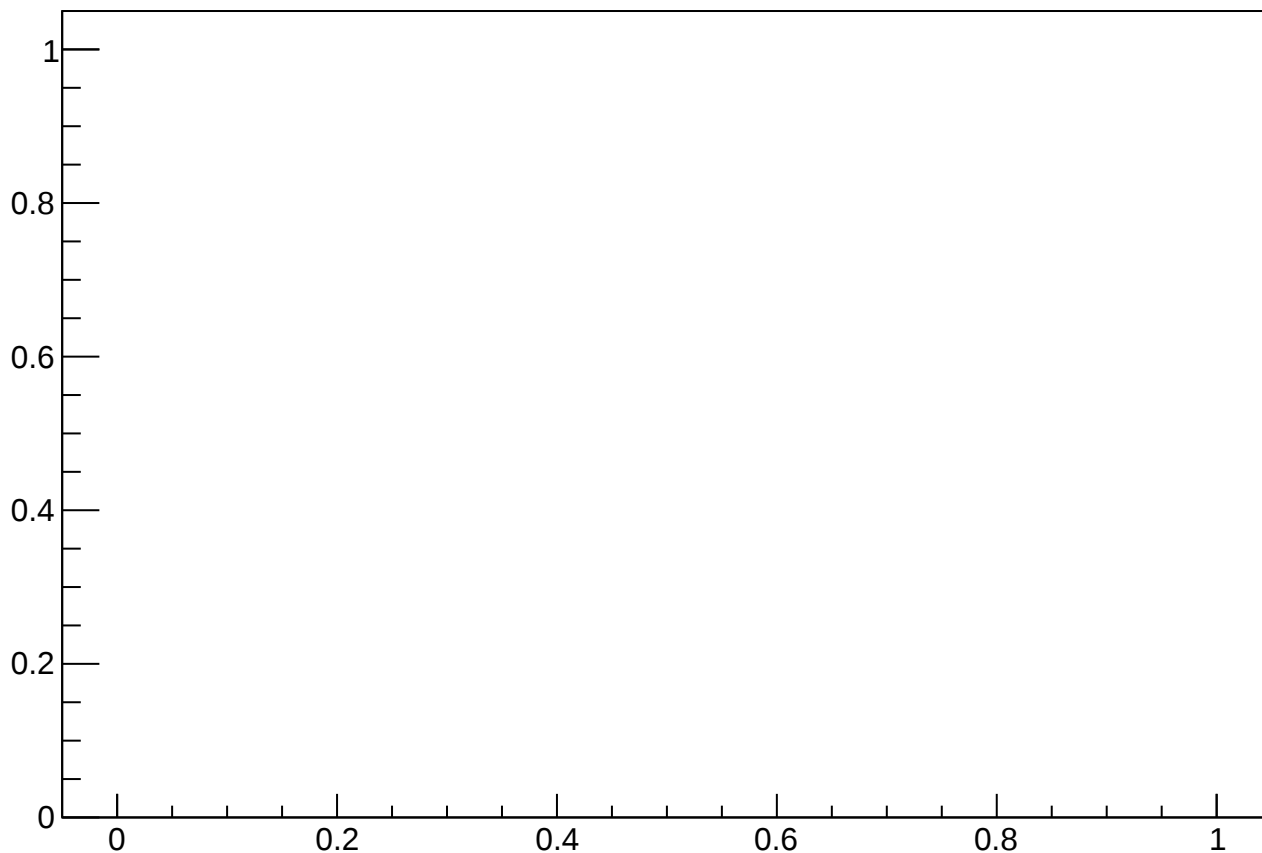
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

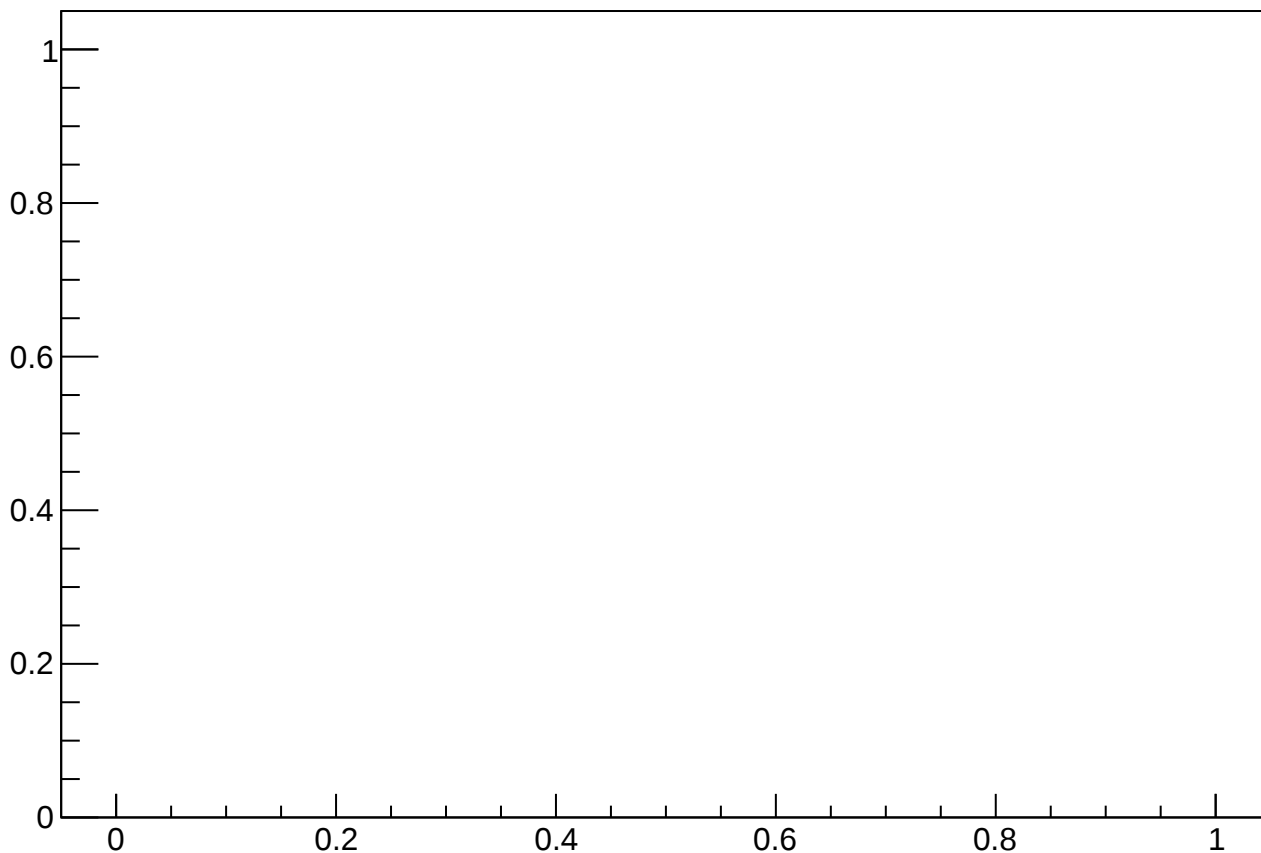
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl1\_coil1\_mean vs Slug, Sign Corrected



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

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

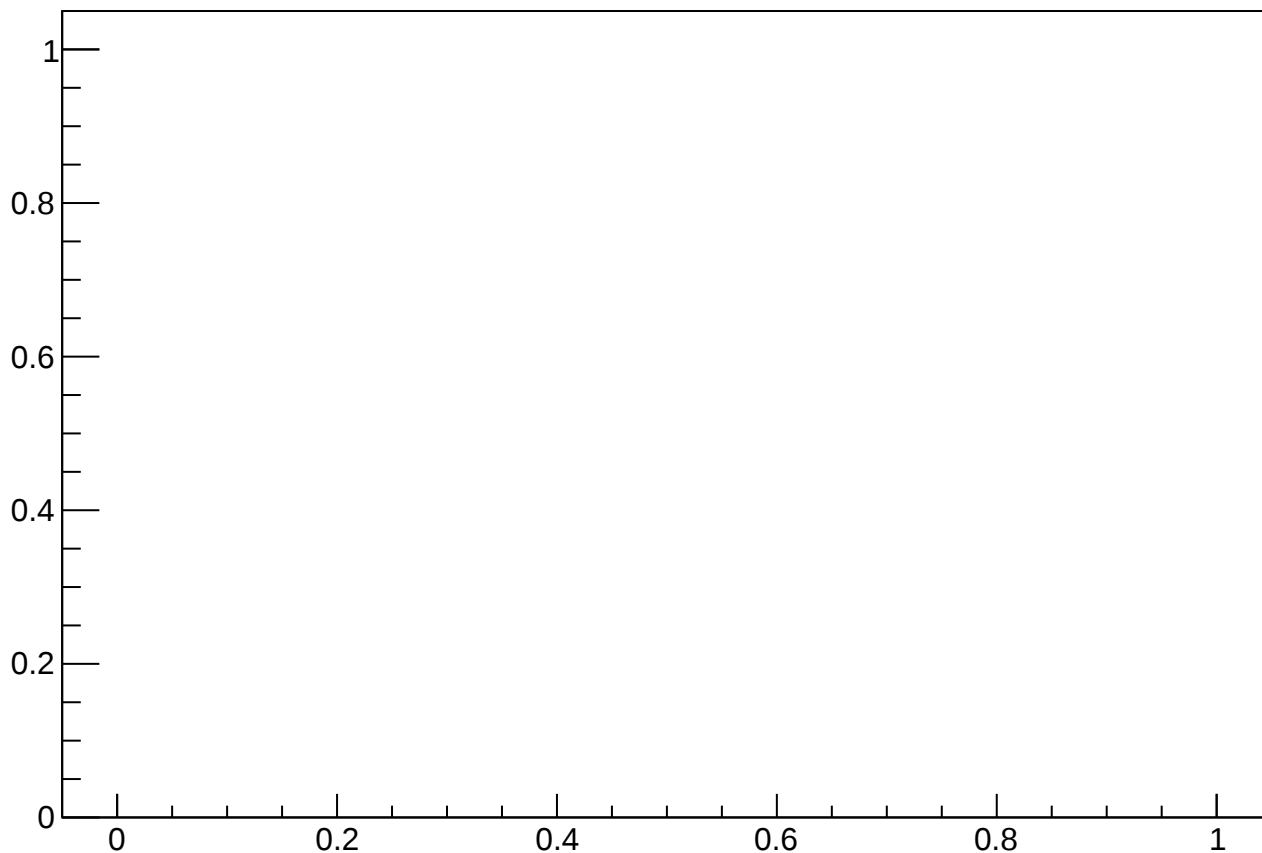
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl1\_coil1\_err\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

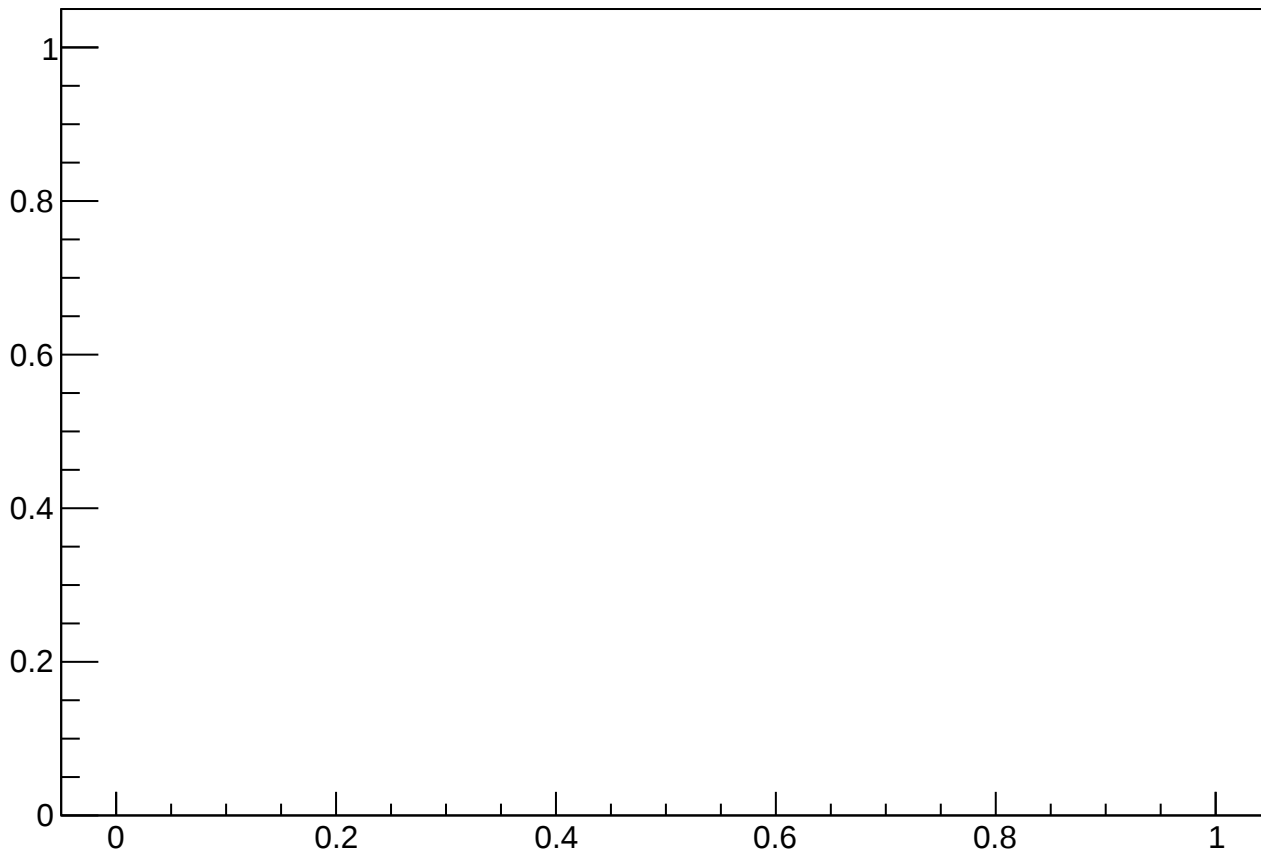
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

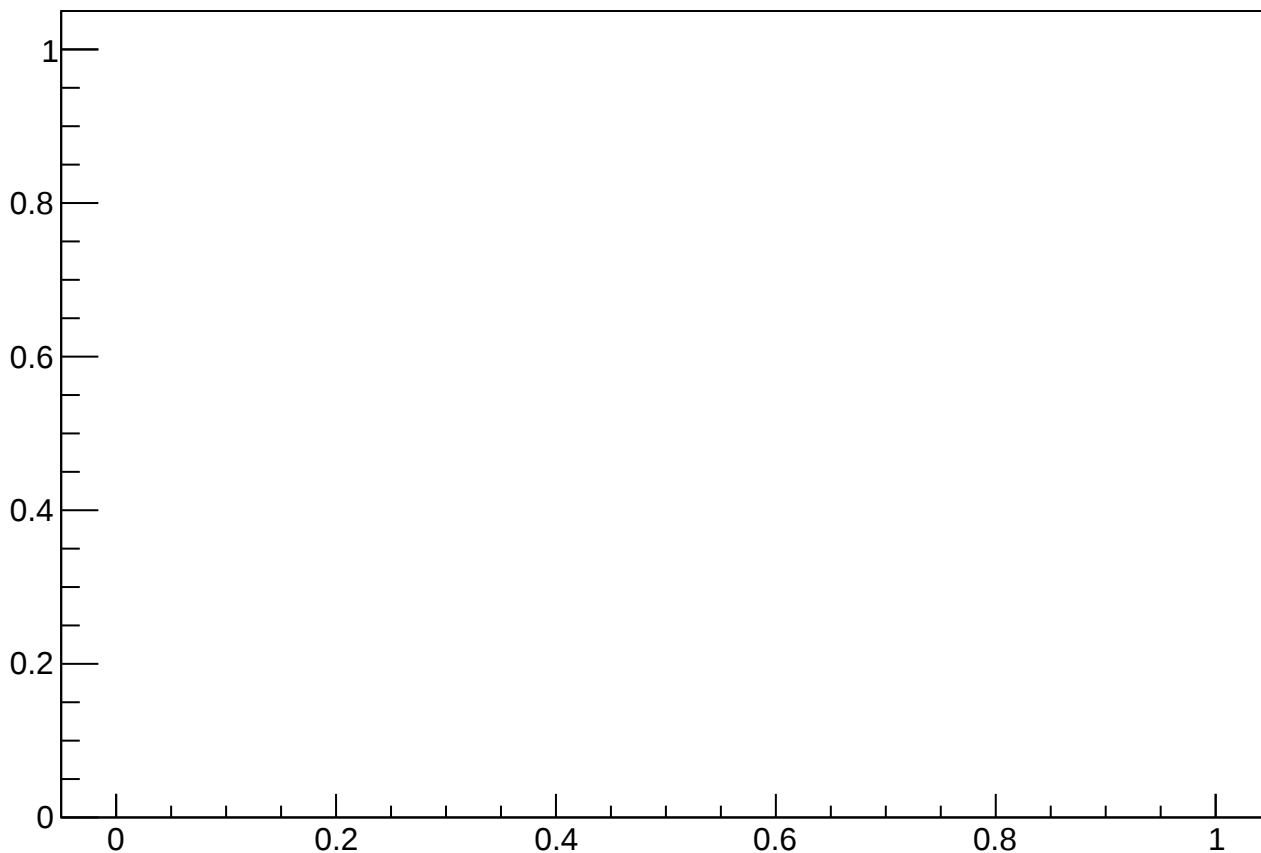
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil1\_mean vs Slug, Sign Corrected



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

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

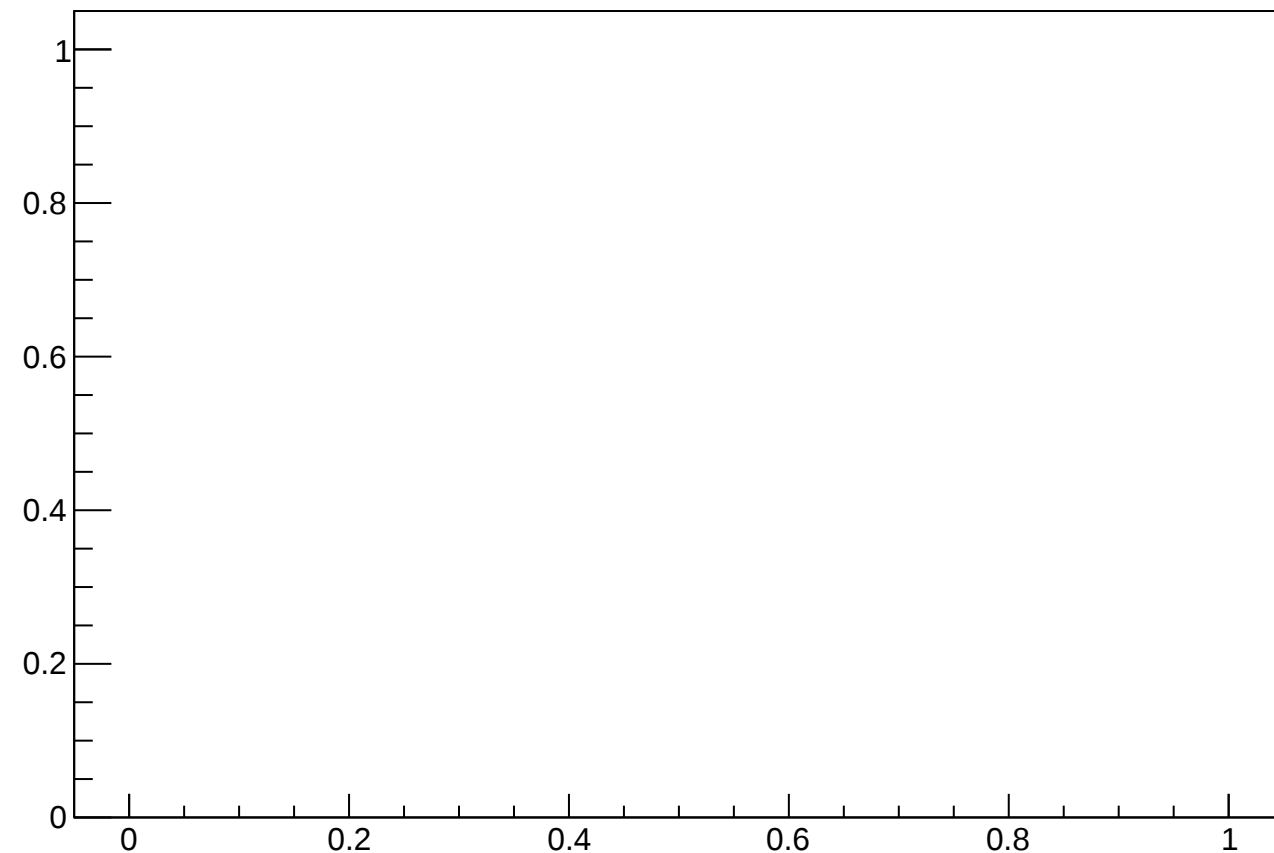
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

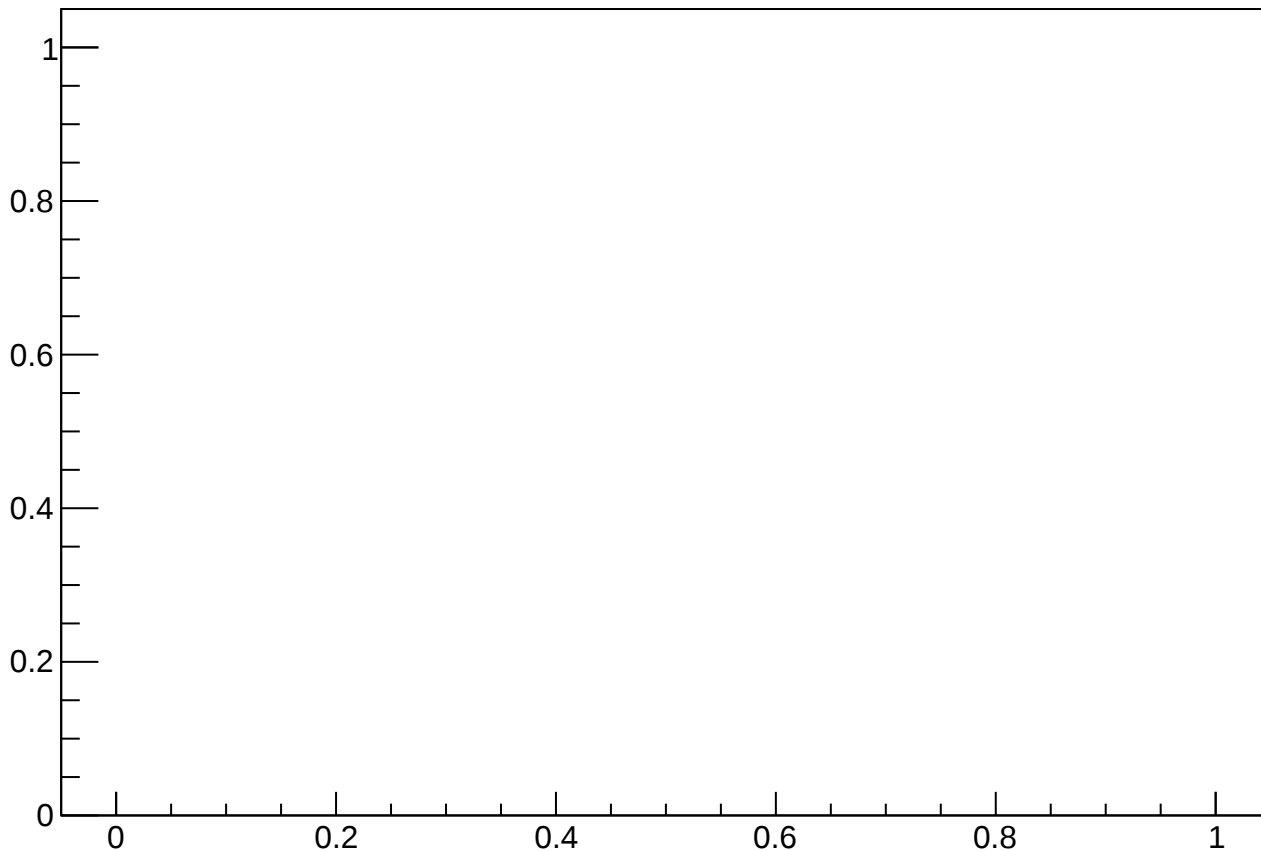
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

# dit\_atr1\_coil1\_mean vs Slug, Sign Corrected



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

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

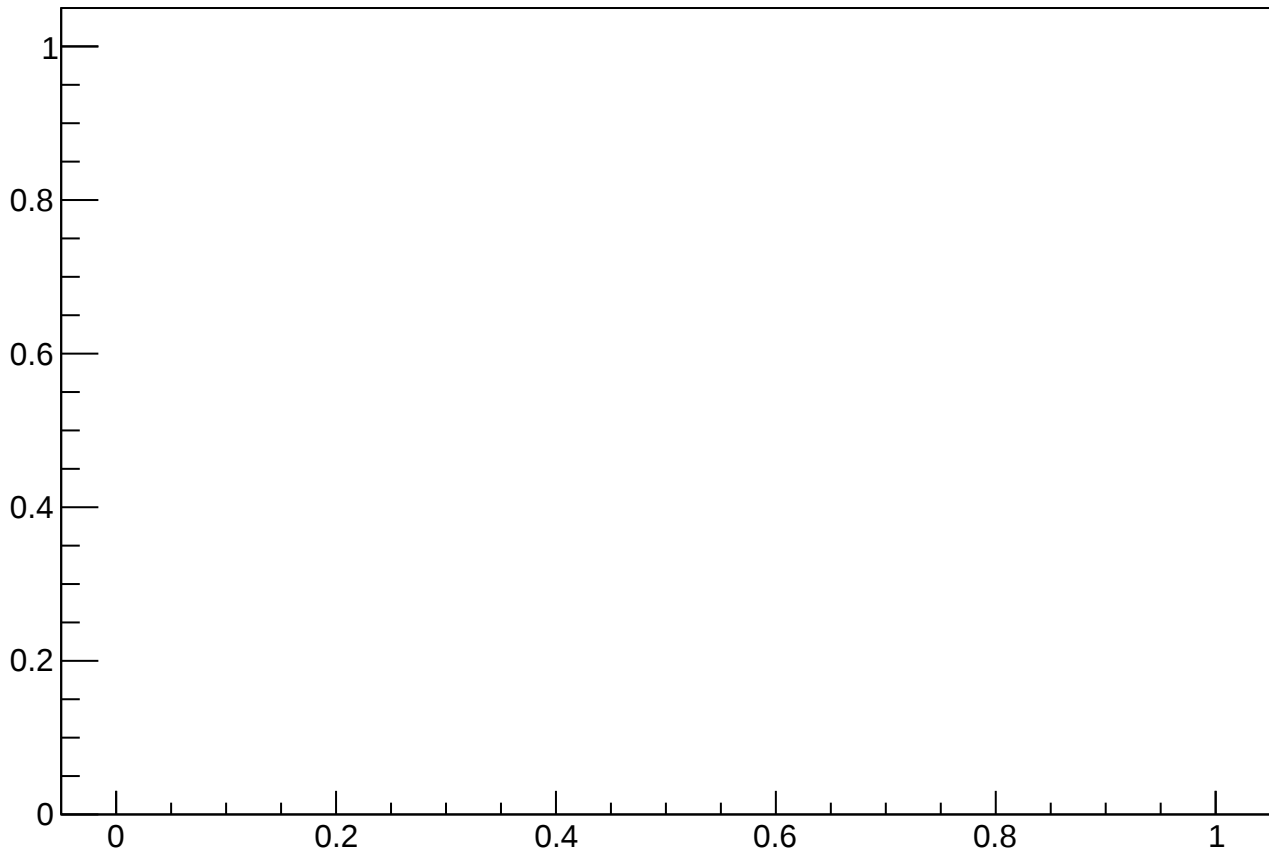
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr1\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

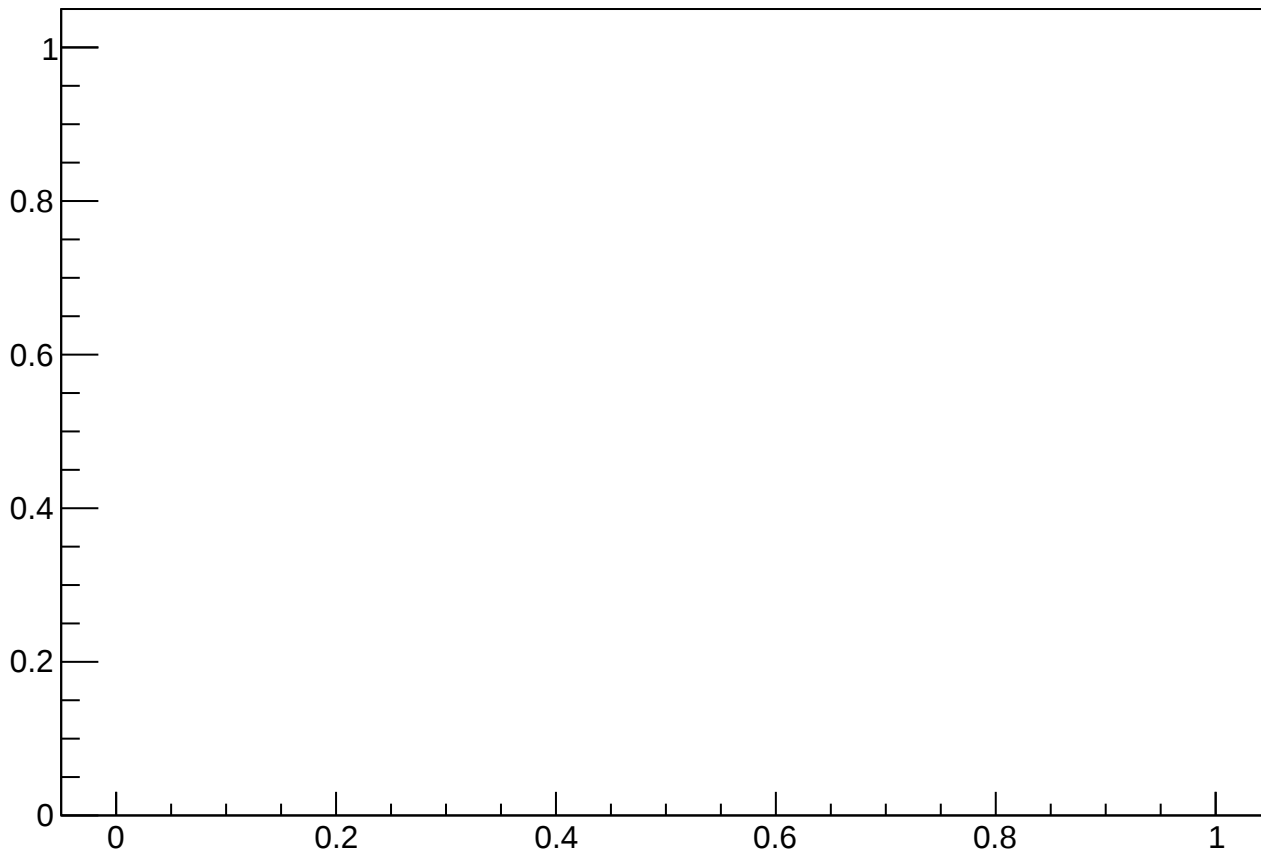
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

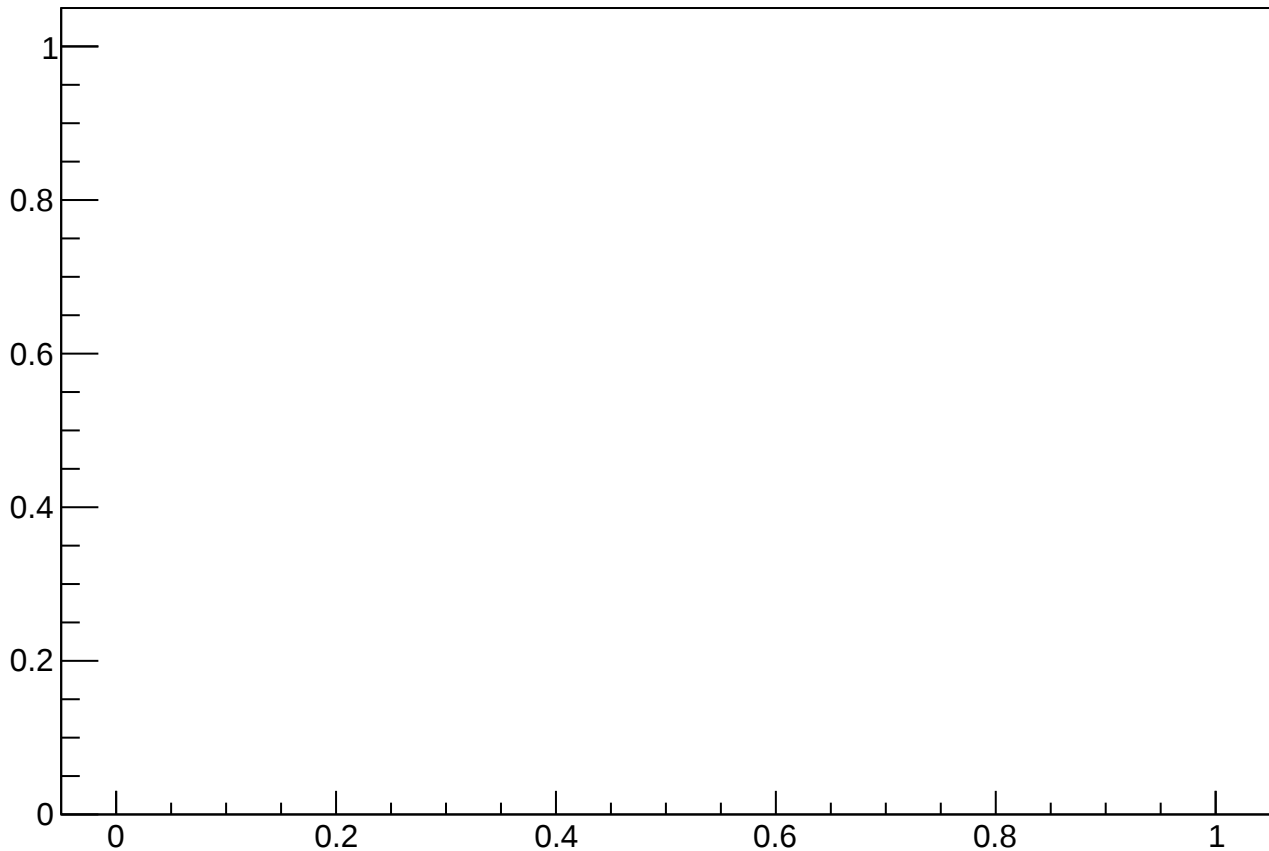
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr2\_coil1\_mean vs Slug, Sign Corrected



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

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

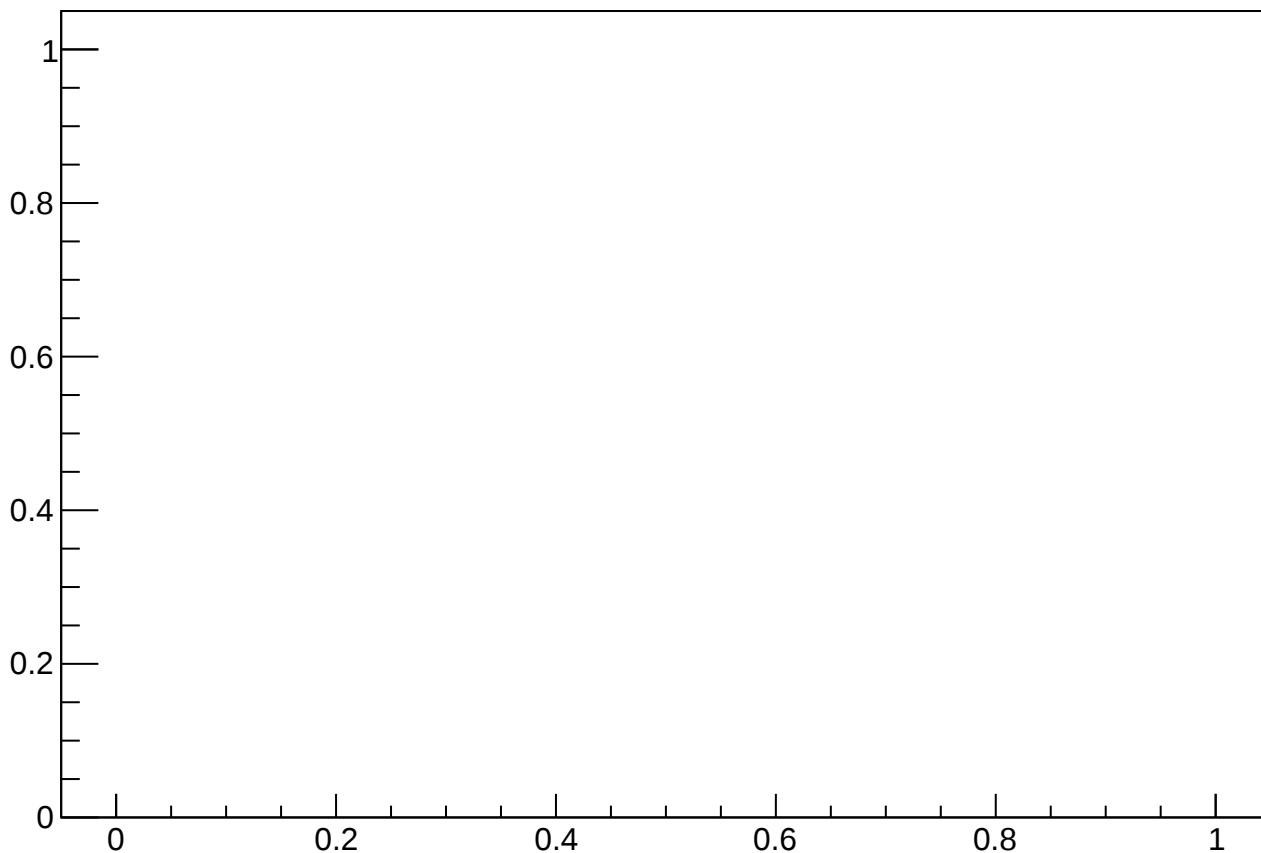
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr2\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

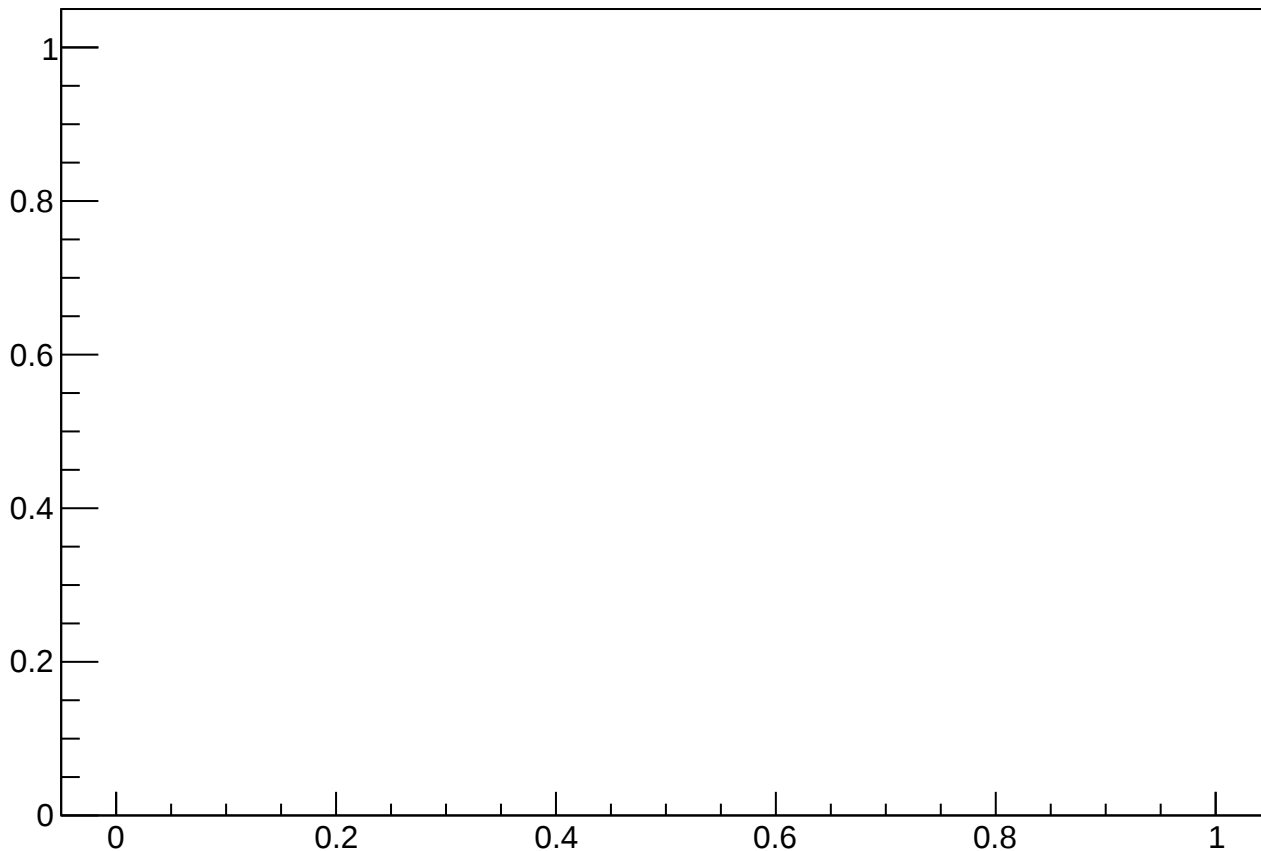
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

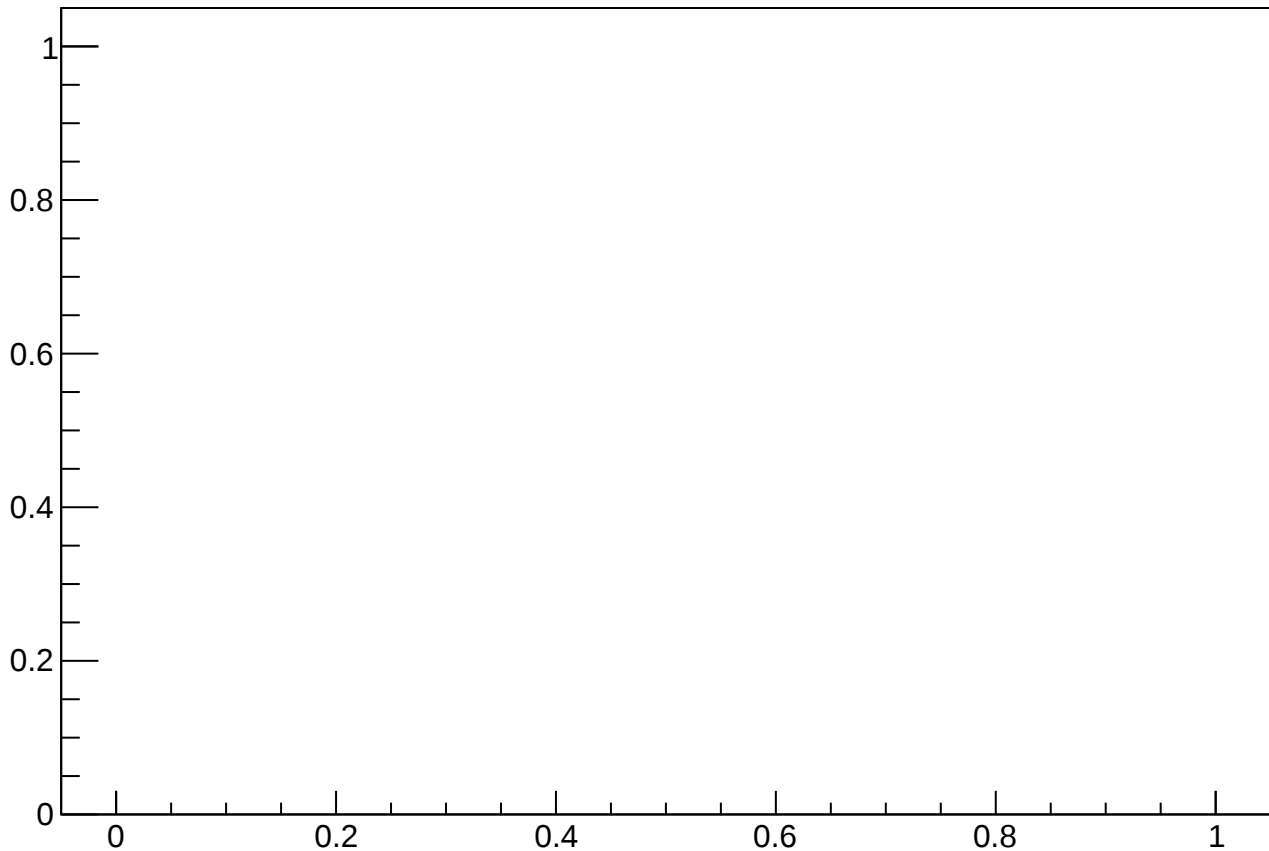
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam1\_coil1\_mean vs Slug, Sign Corrected



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

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

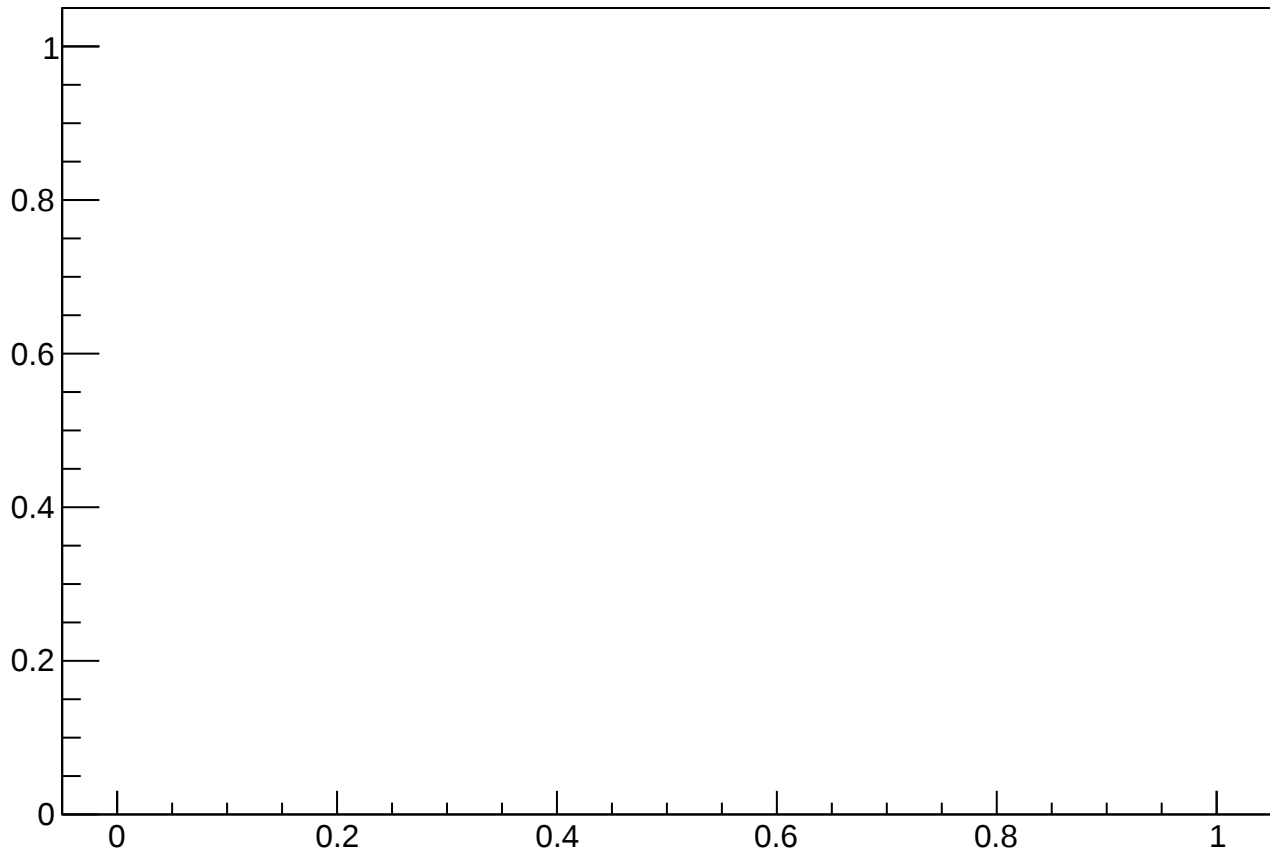
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam1\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

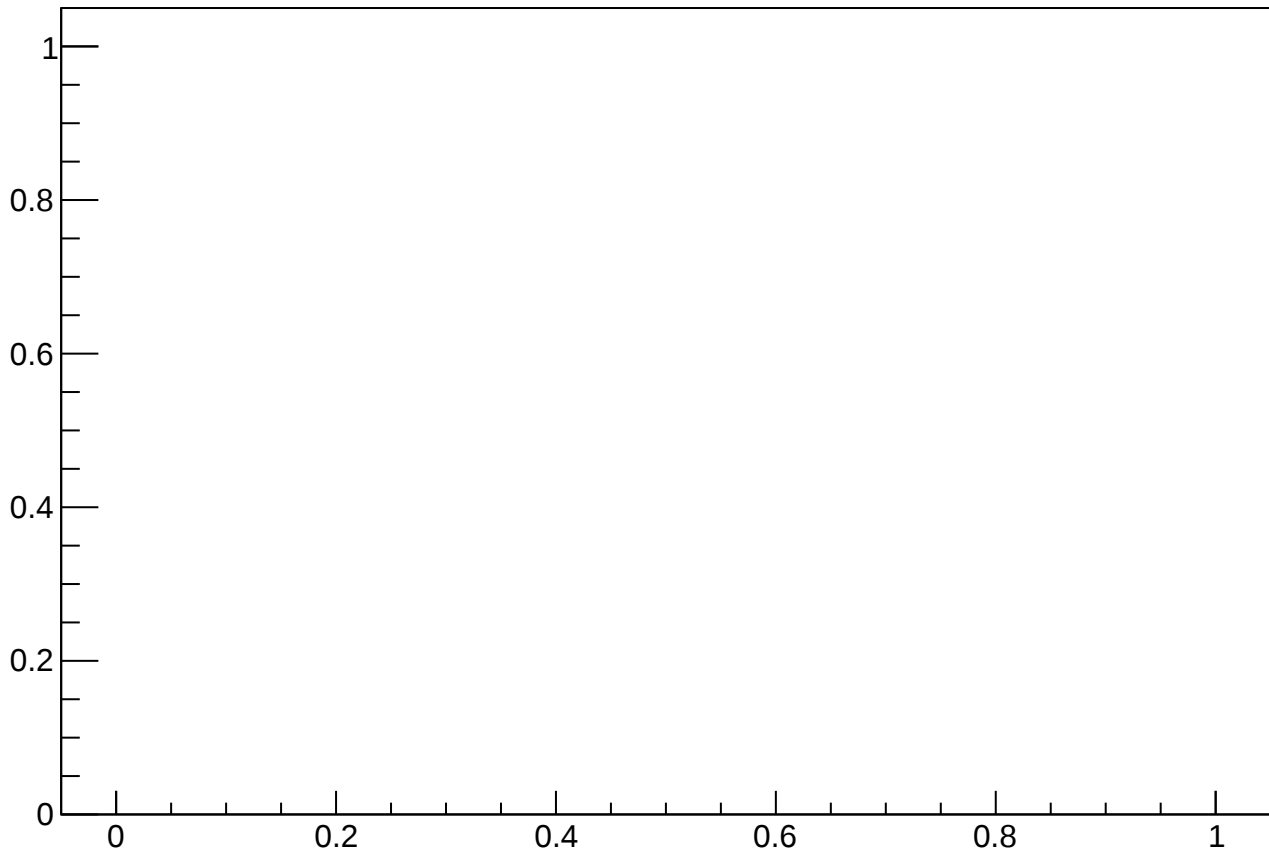
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam1\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

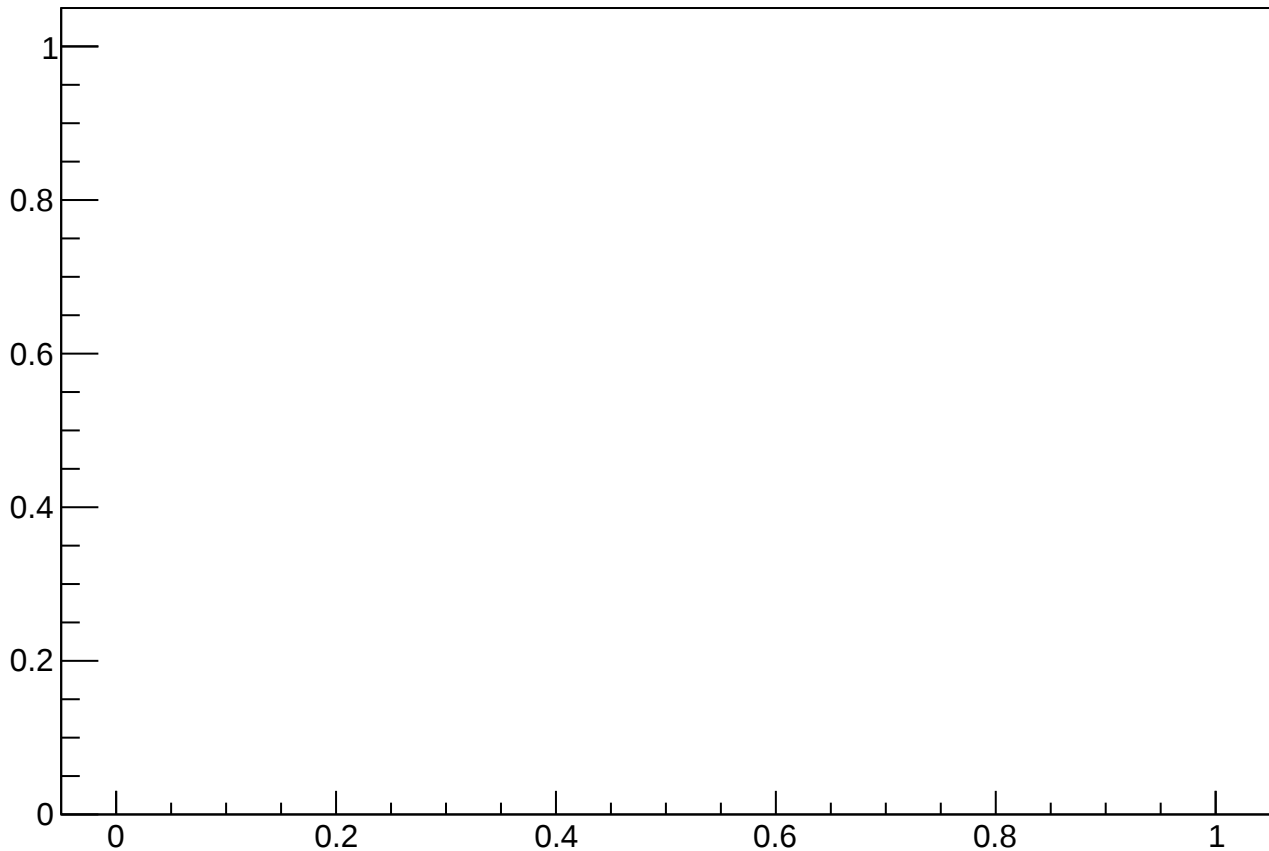
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam2\_coil1\_mean vs Slug, Sign Corrected



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

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

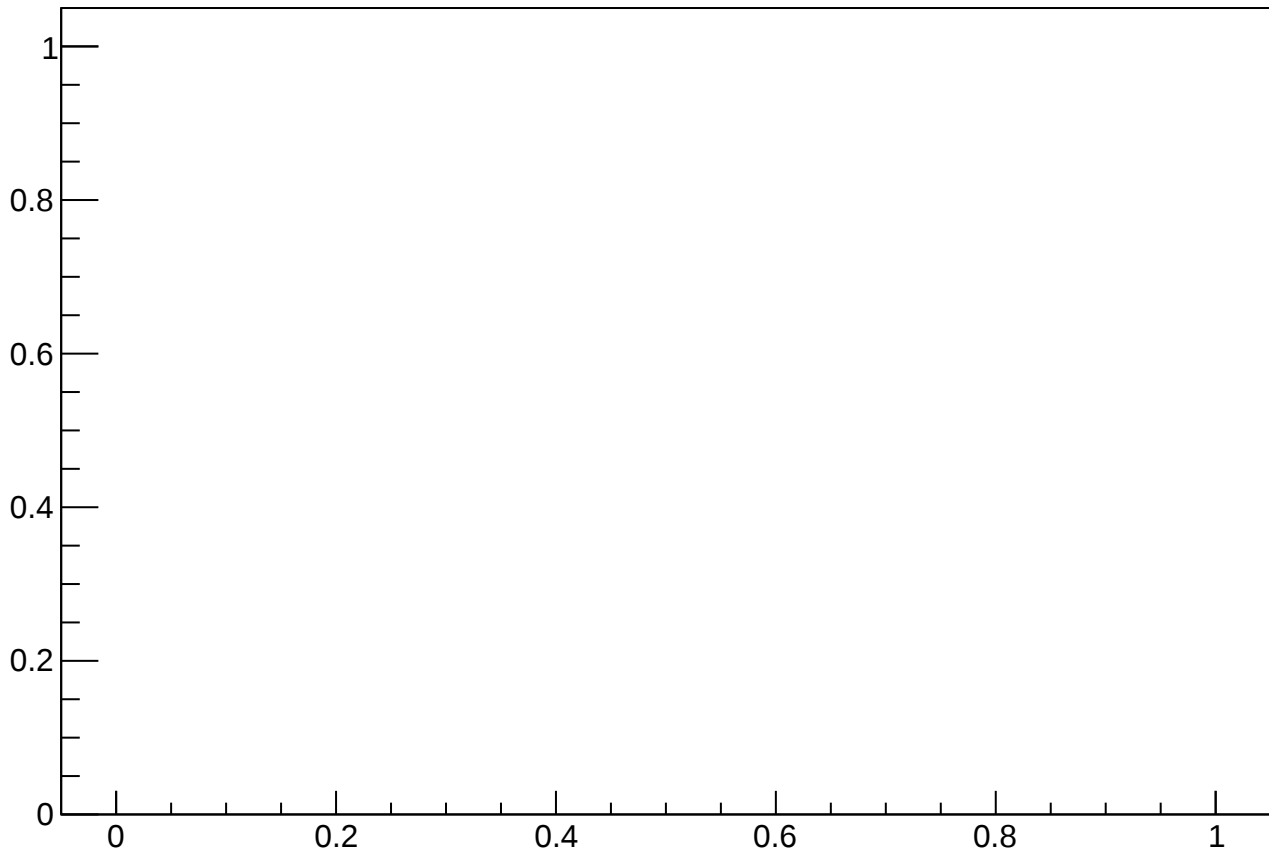
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam2\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

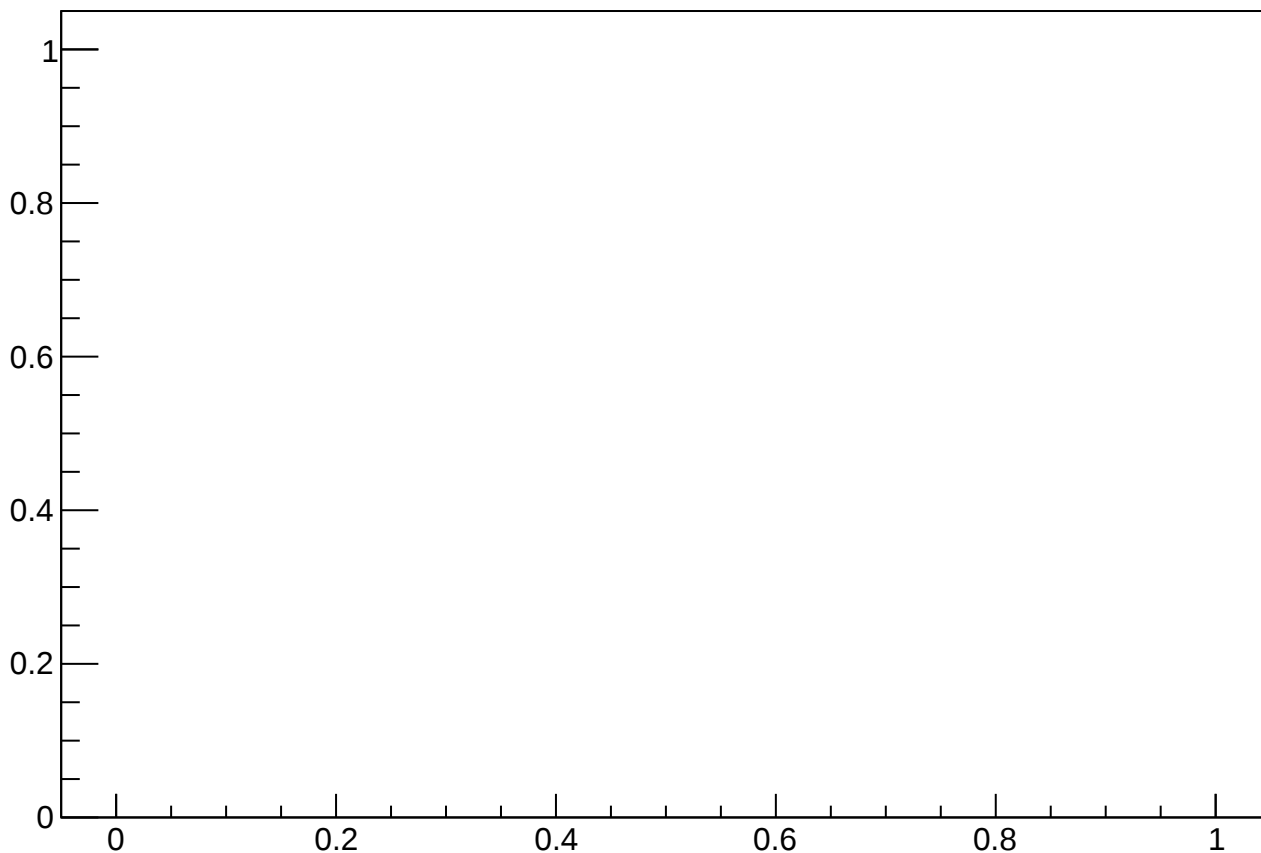
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam2\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

# dit\_sam3\_coil1\_mean vs Slug, Sign Corrected



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

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

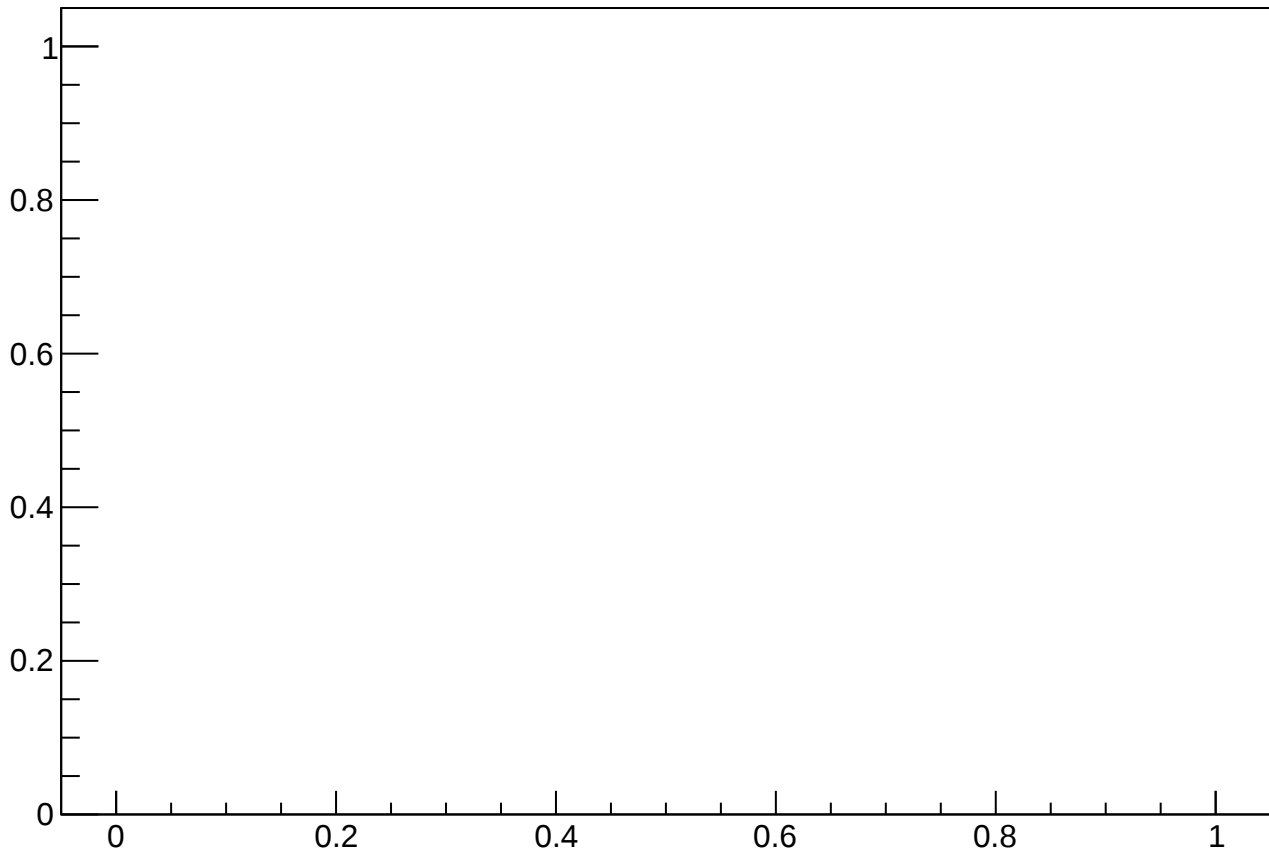
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam3\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

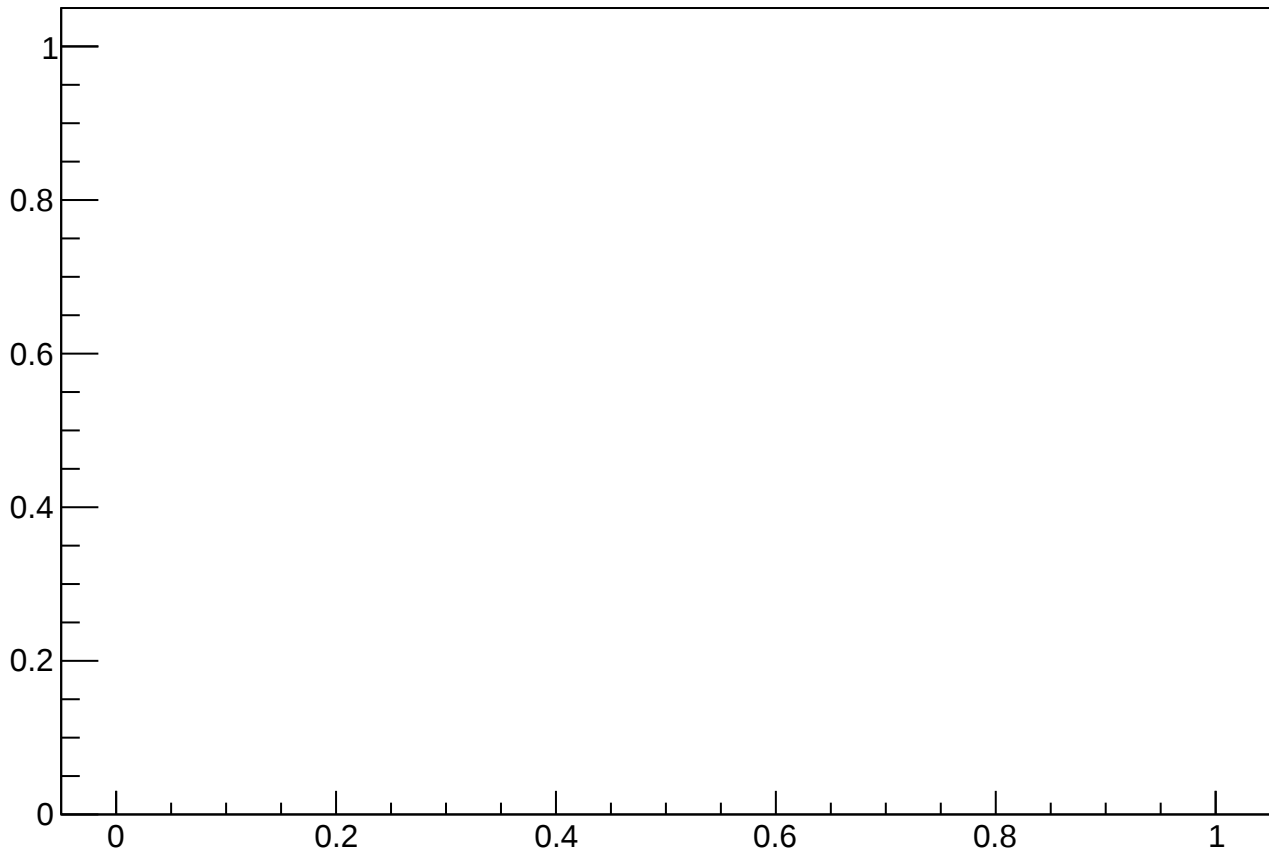
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam3\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

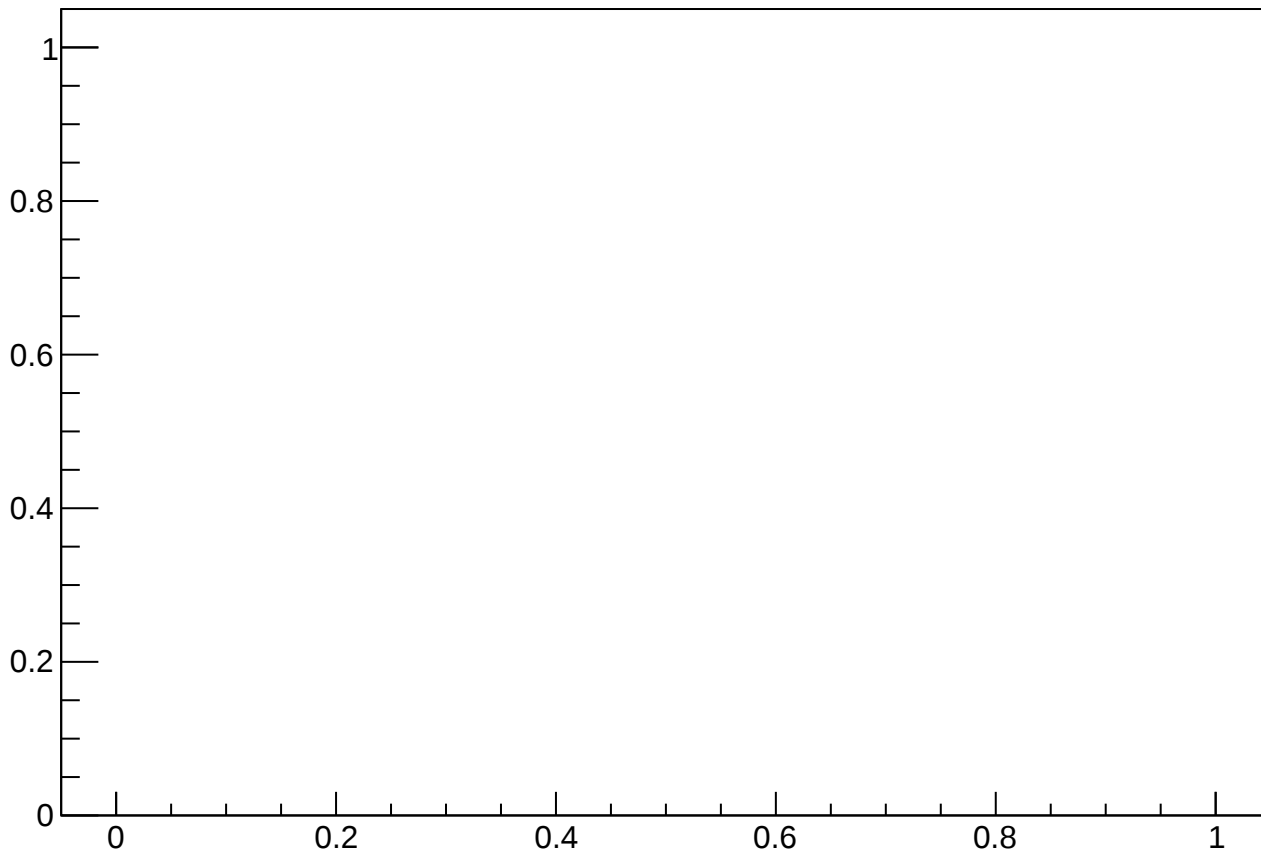
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam4\_coil1\_mean vs Slug, Sign Corrected



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

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

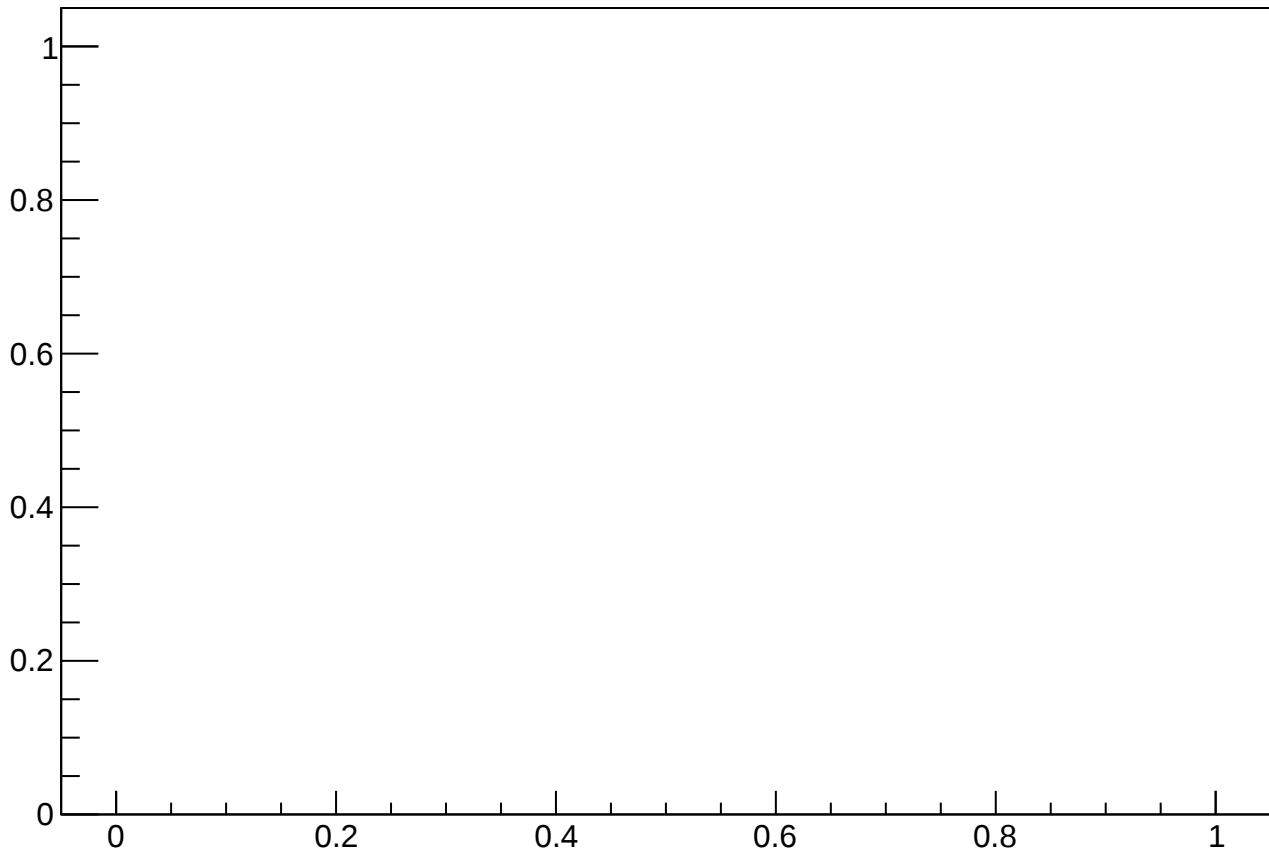
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam4\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

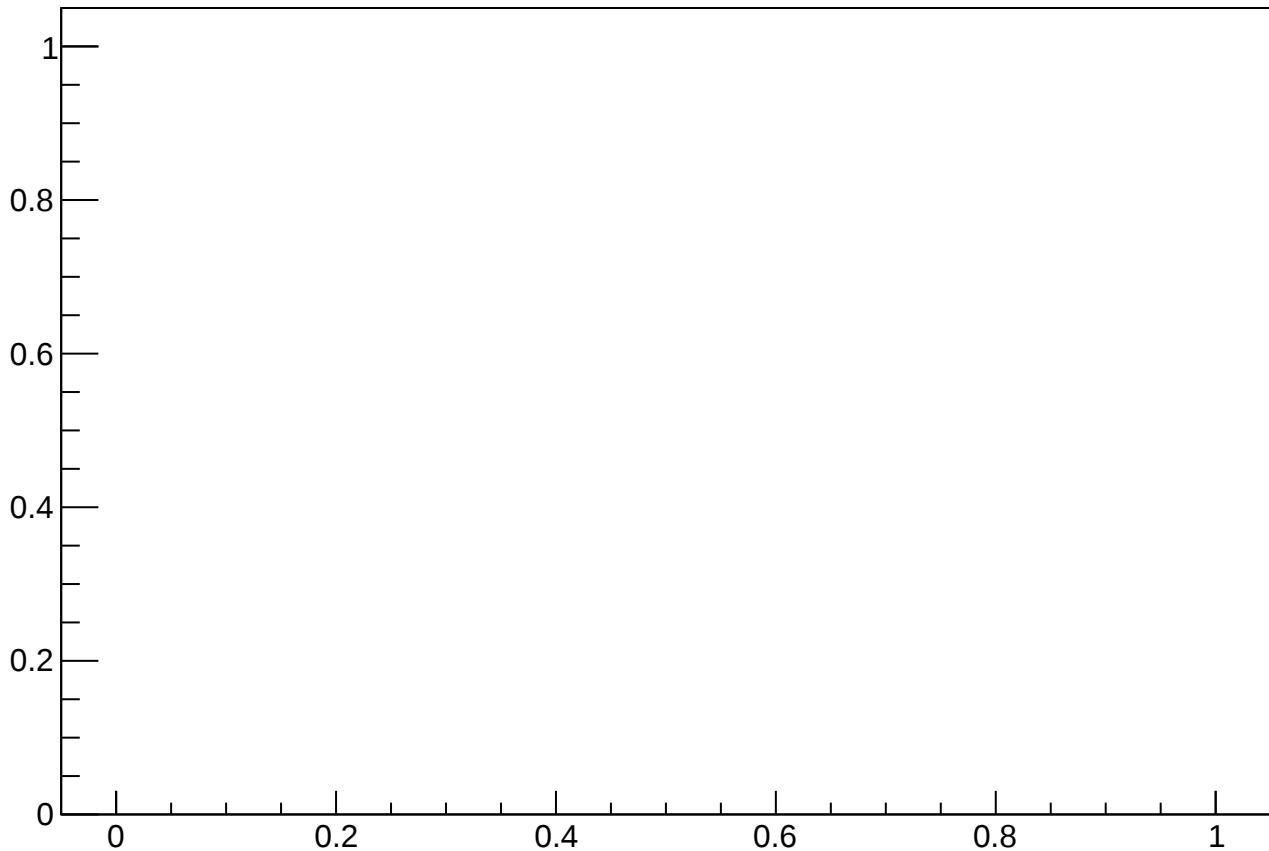
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam4\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

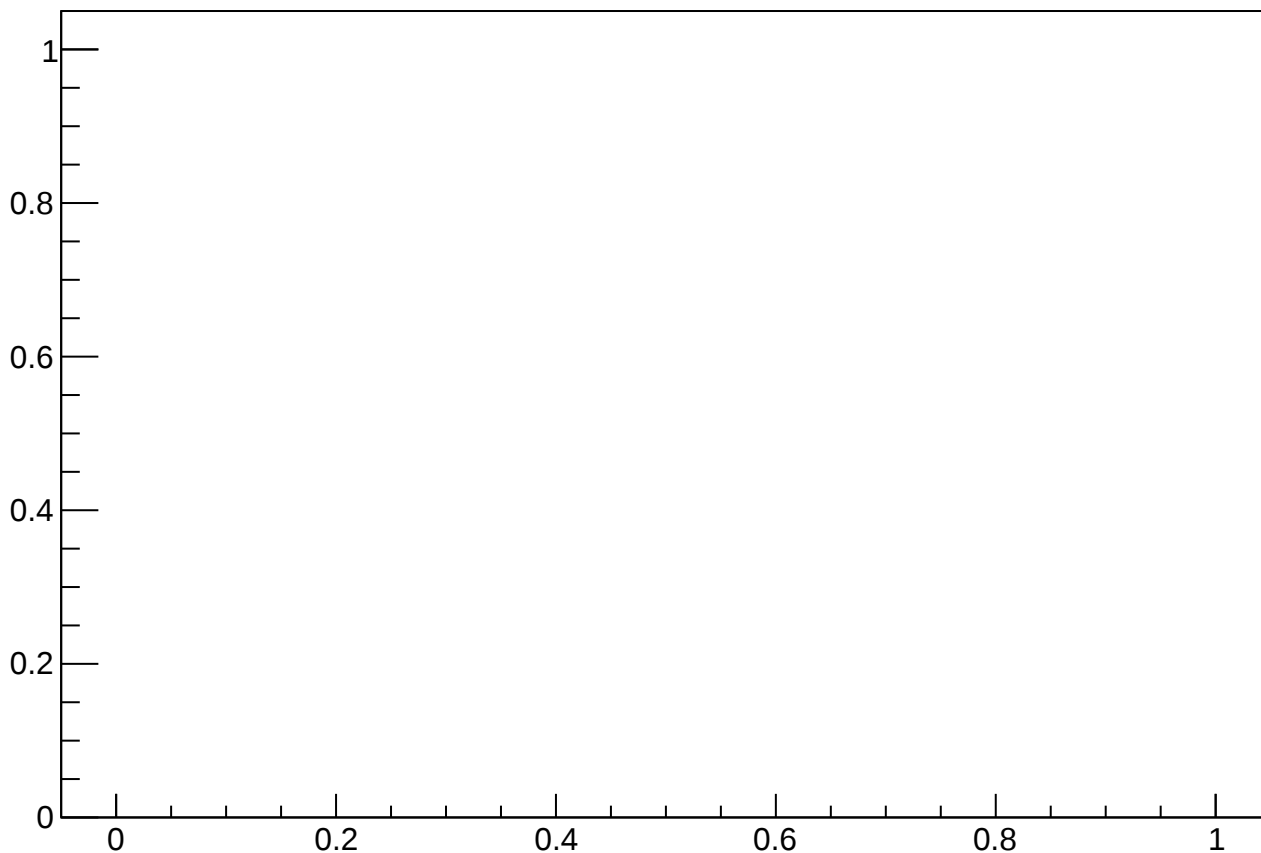
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam5\_coil1\_mean vs Slug, Sign Corrected



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

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

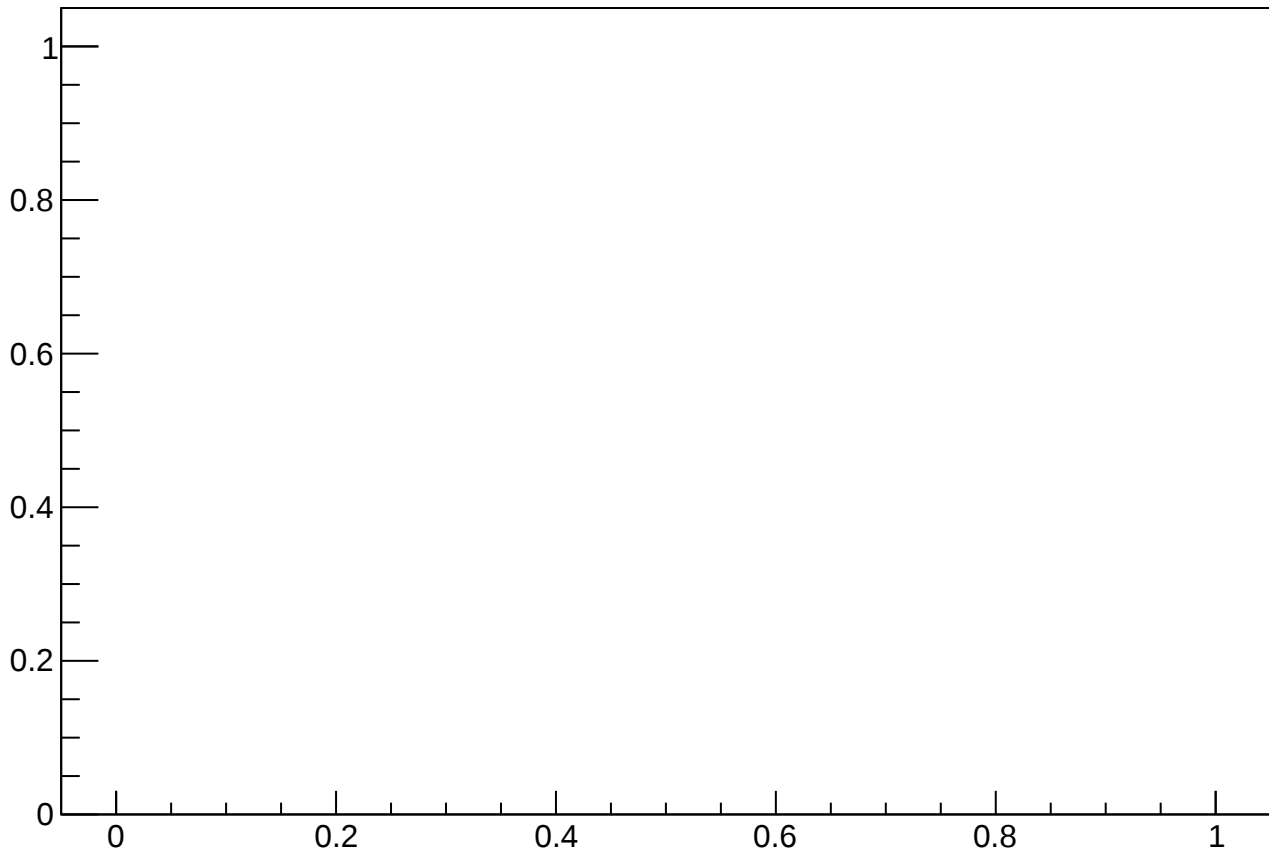
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam5\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

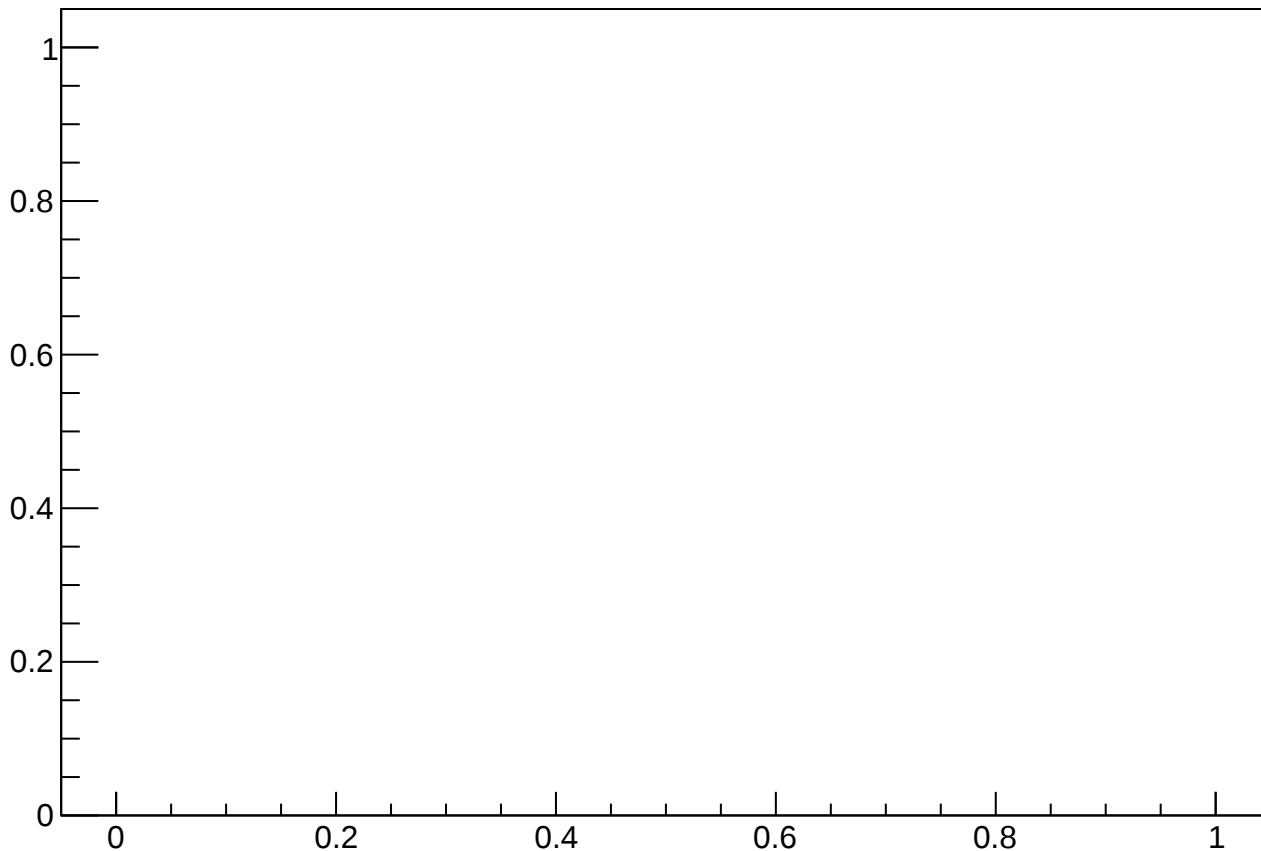
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam5\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

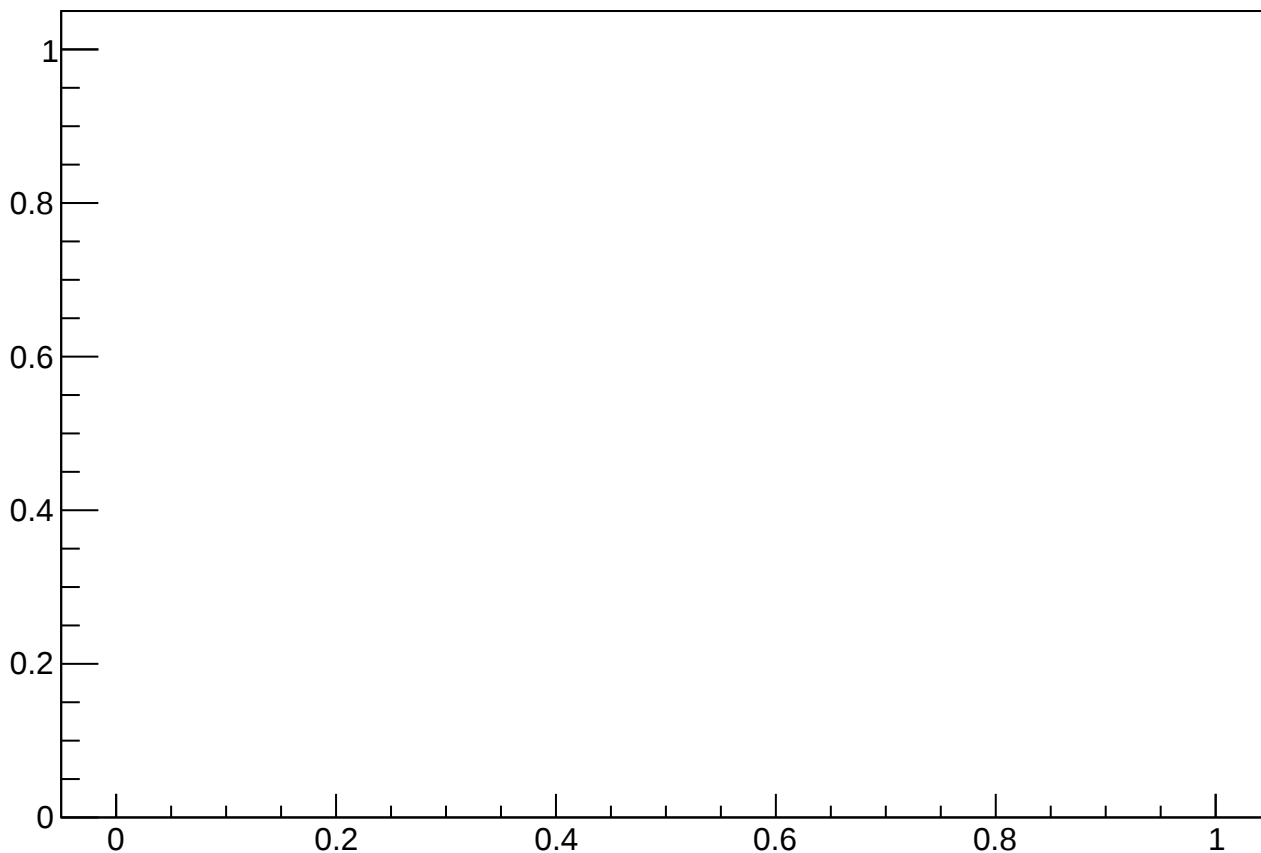
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam6\_coil1\_mean vs Slug, Sign Corrected



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

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

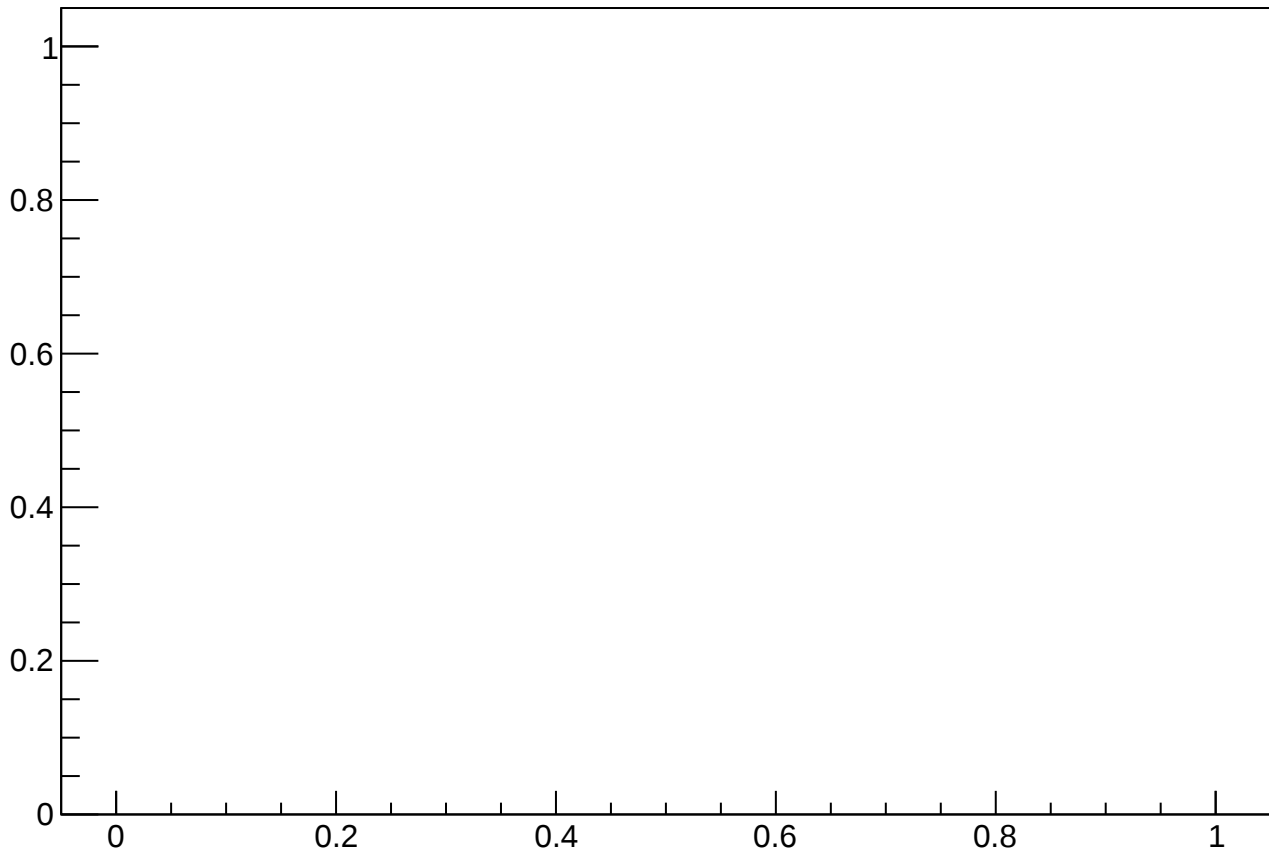
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_sam6\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

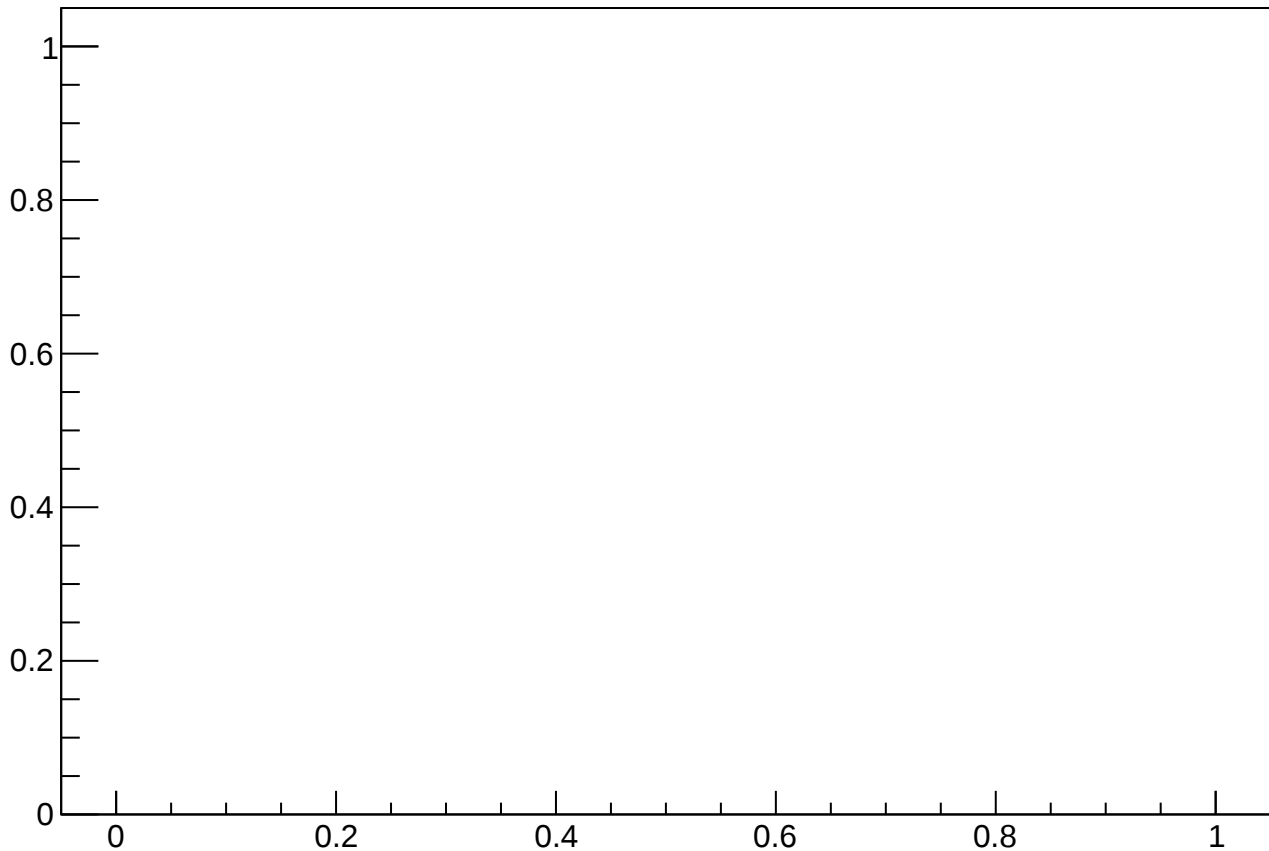
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam6\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

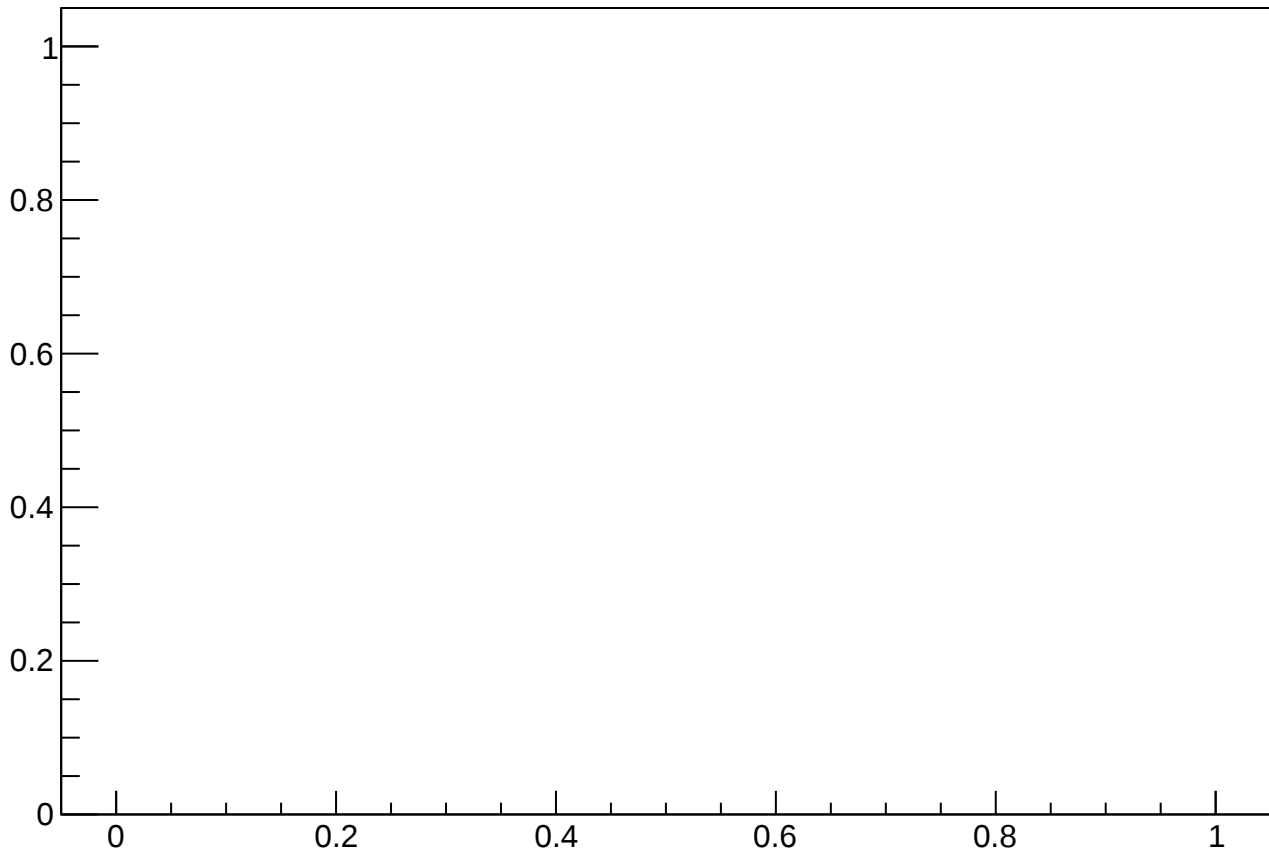
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam7\_coil1\_mean vs Slug, Sign Corrected



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

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

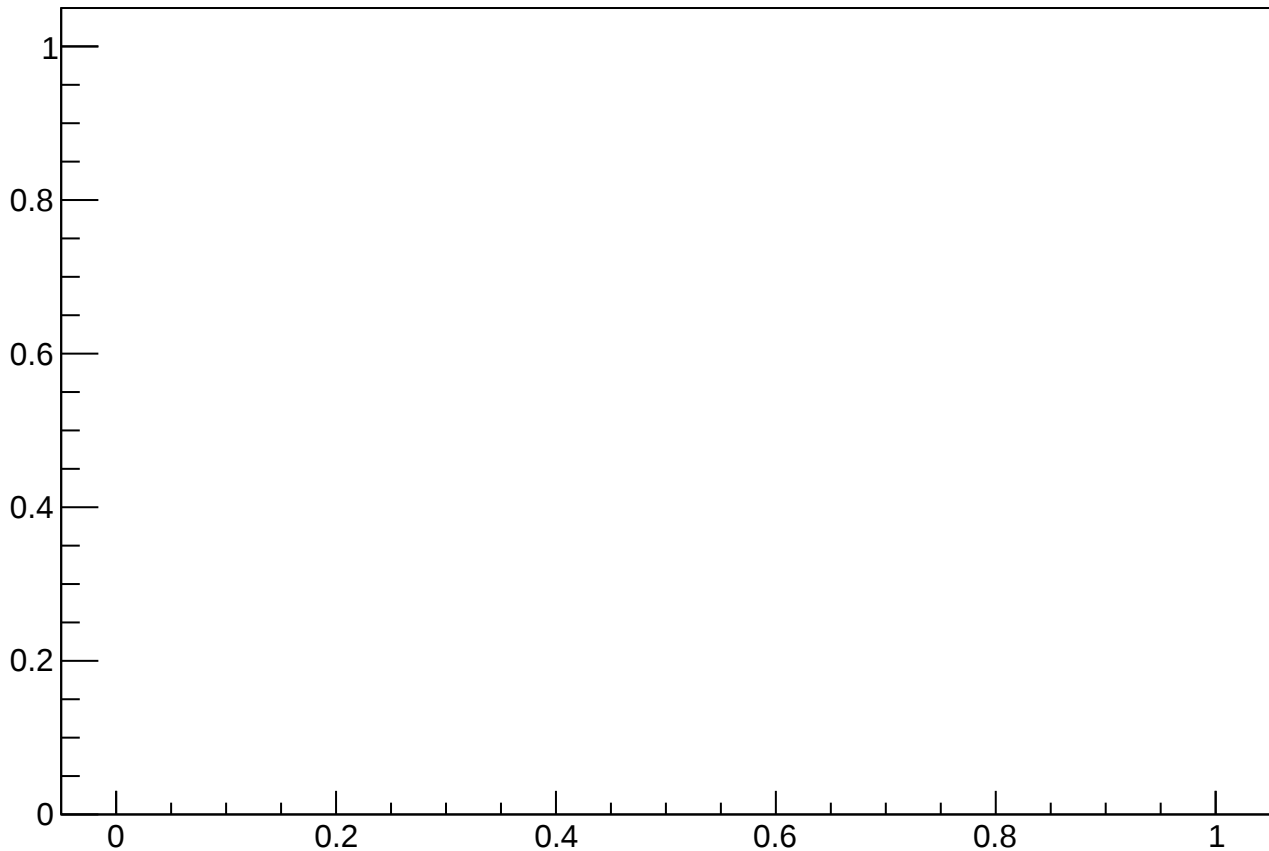
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam7\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

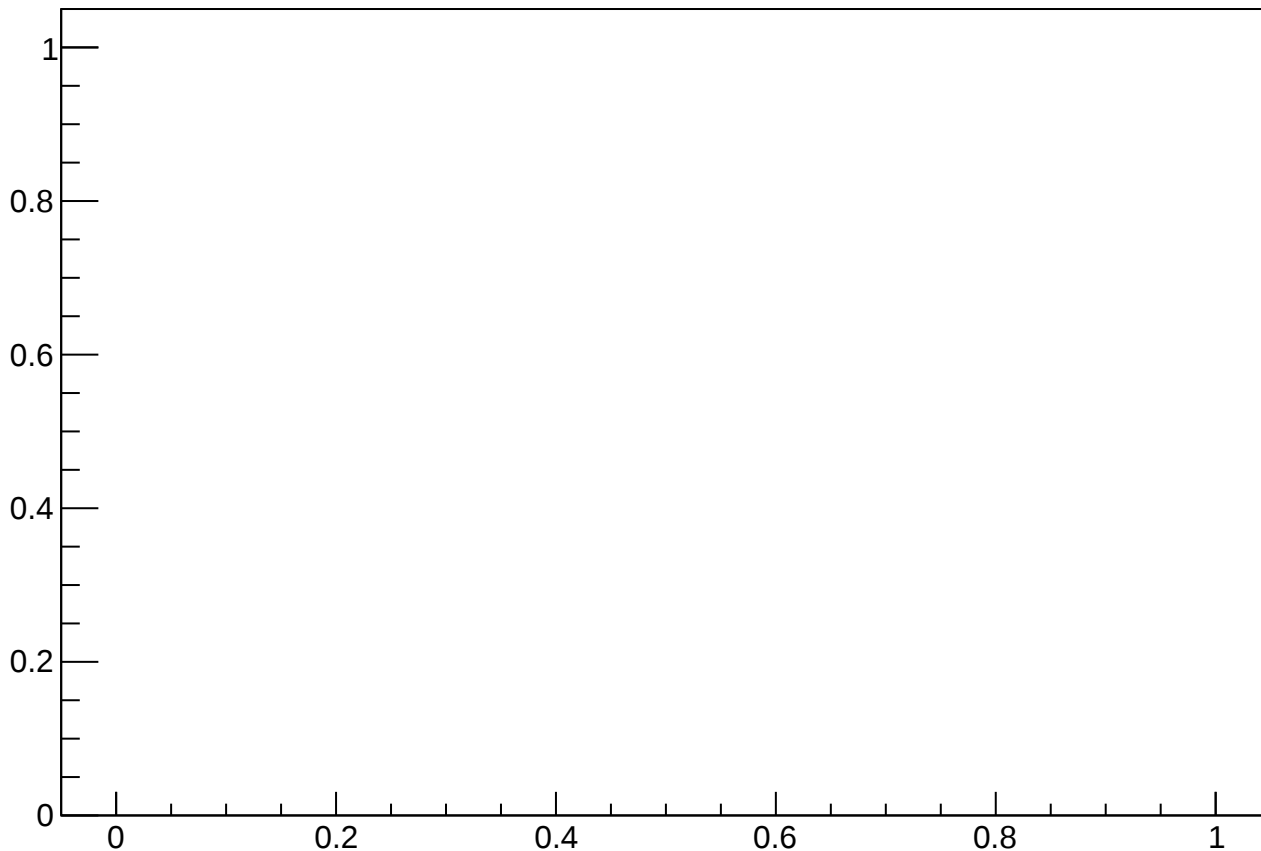
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam7\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

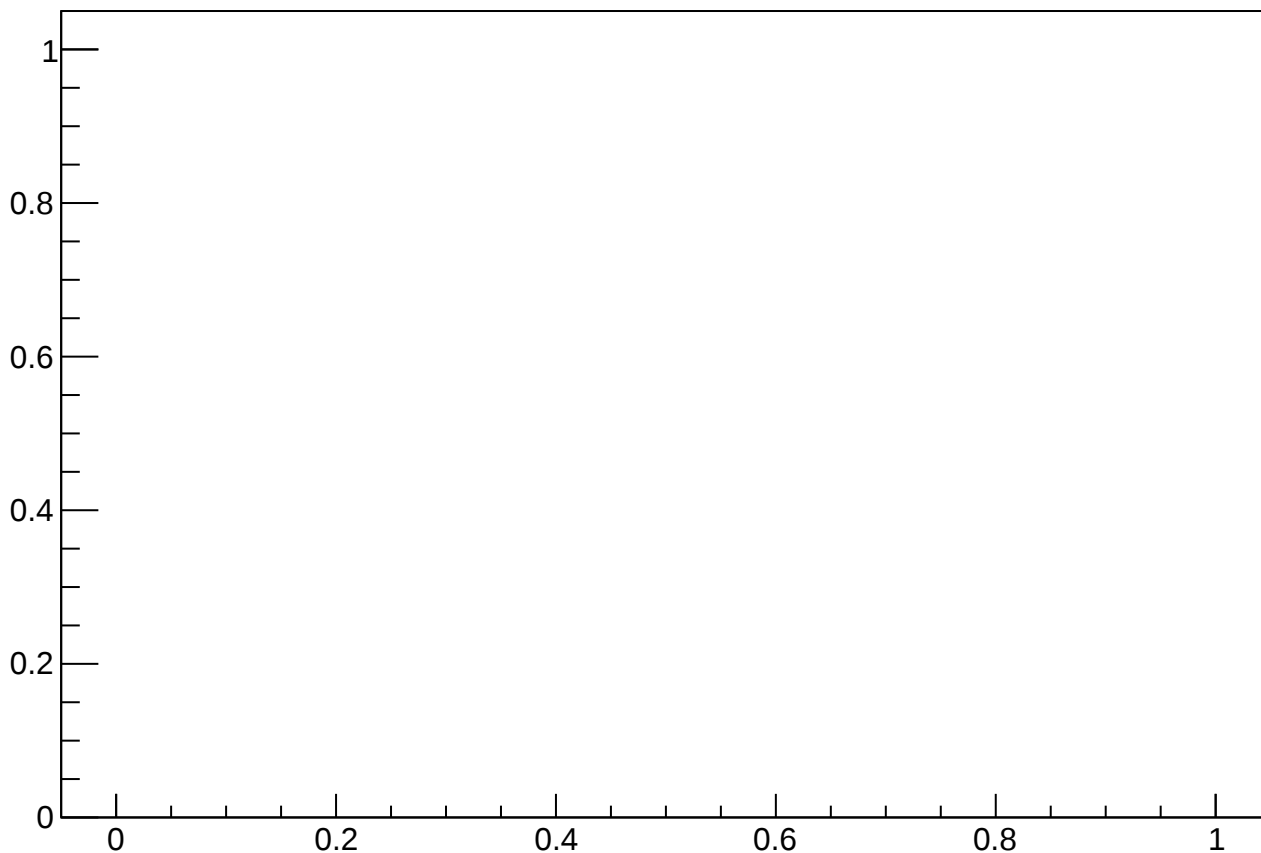
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam8\_coil1\_mean vs Slug, Sign Corrected



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

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

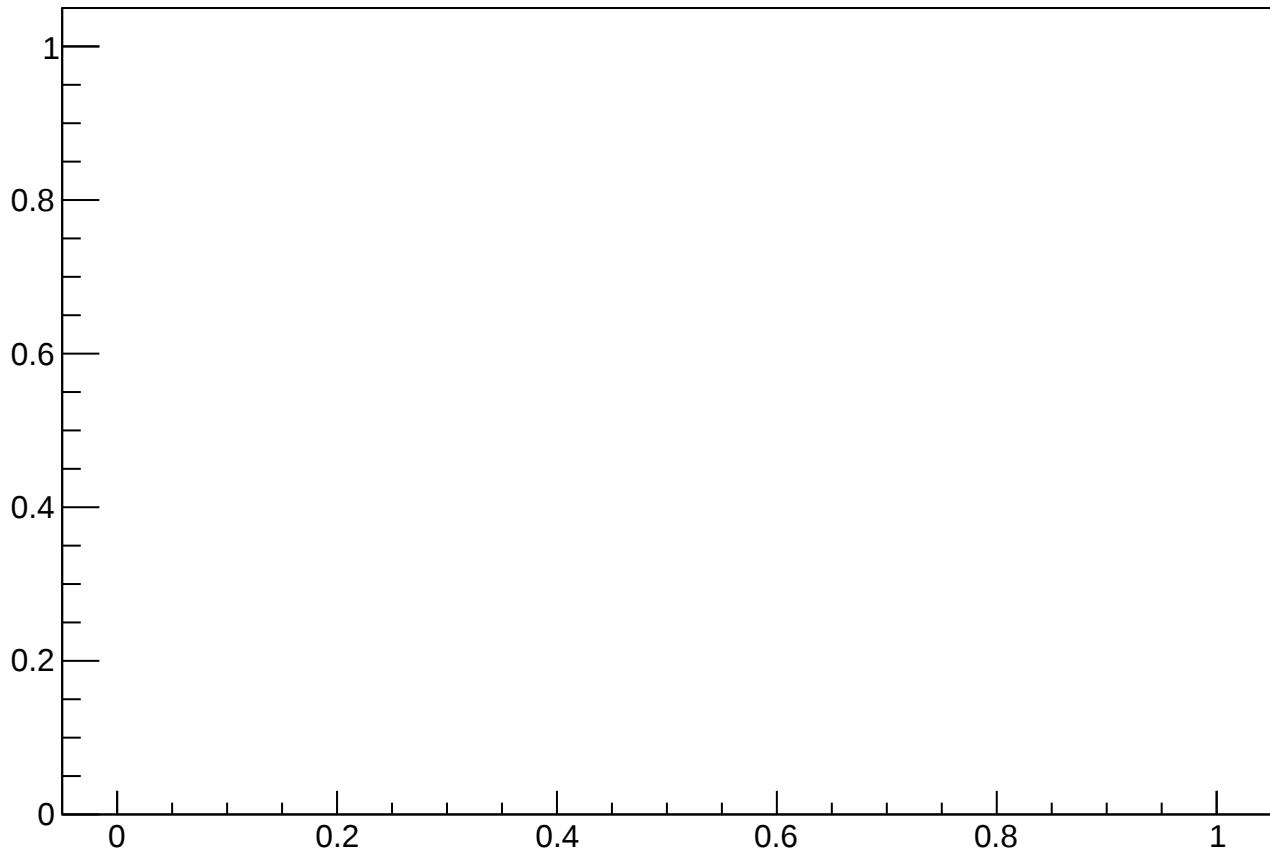
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam8\_coil1\_err\_mean vs Slug, Sign Corrected



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

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

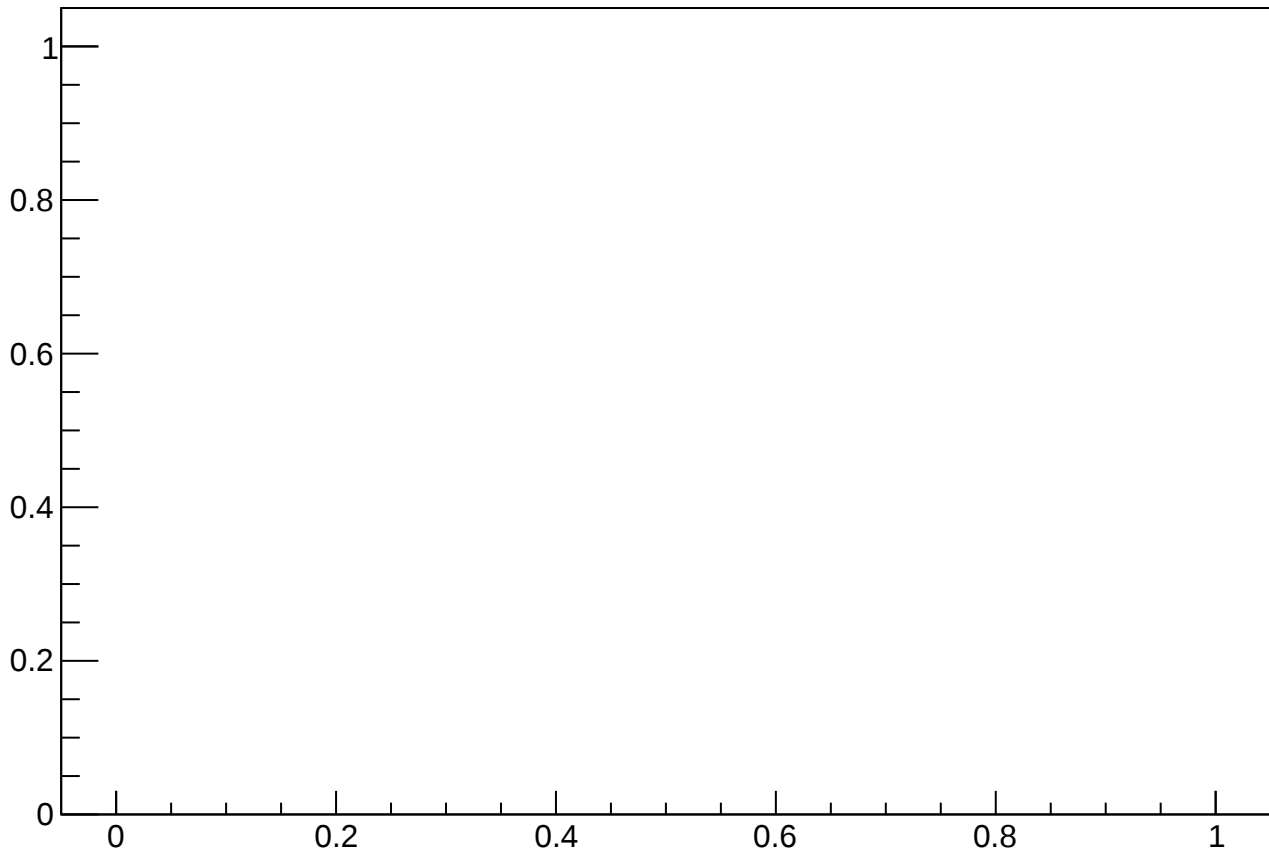
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam8\_coil1\_Ndata\_mean vs Slug, Sign Corrected



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

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

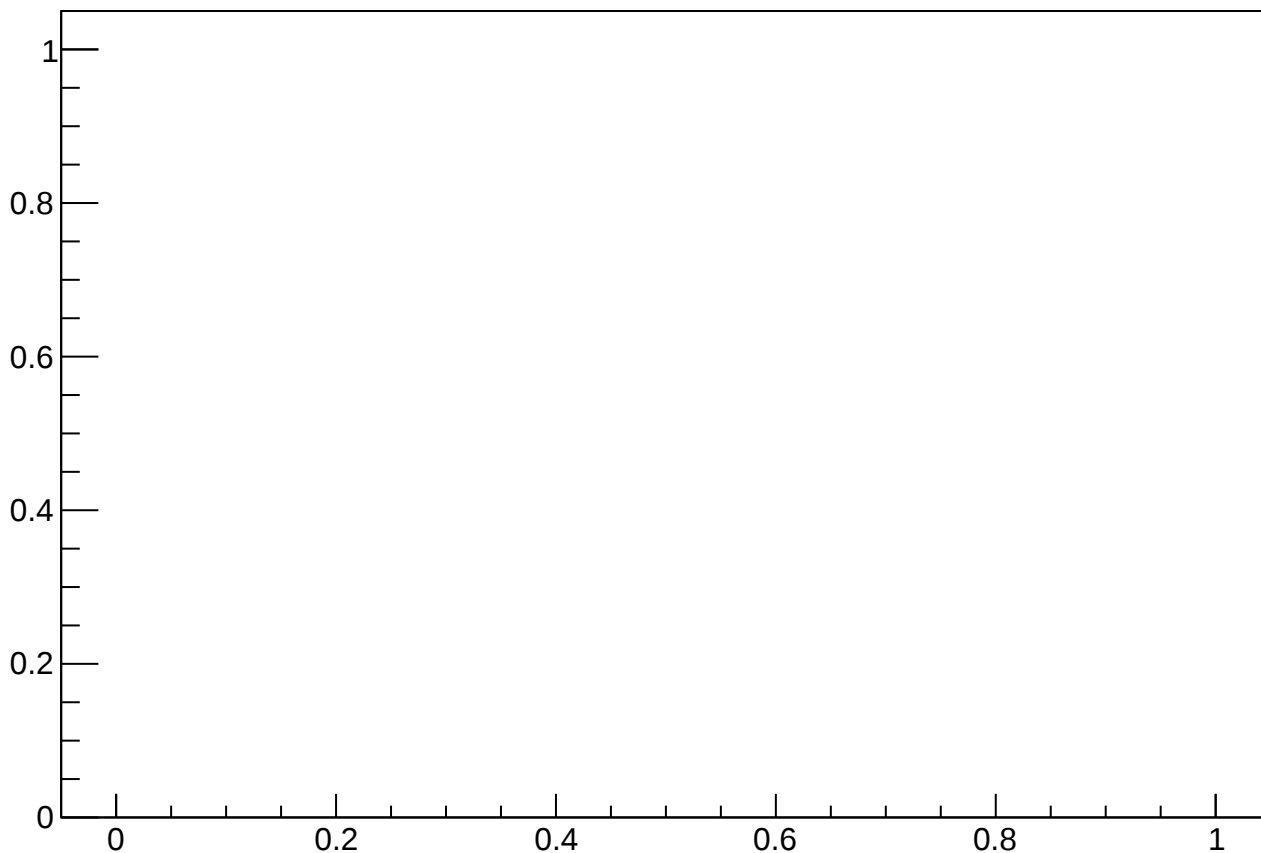
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aX\_coil3\_mean vs Slug, Sign Corrected



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

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

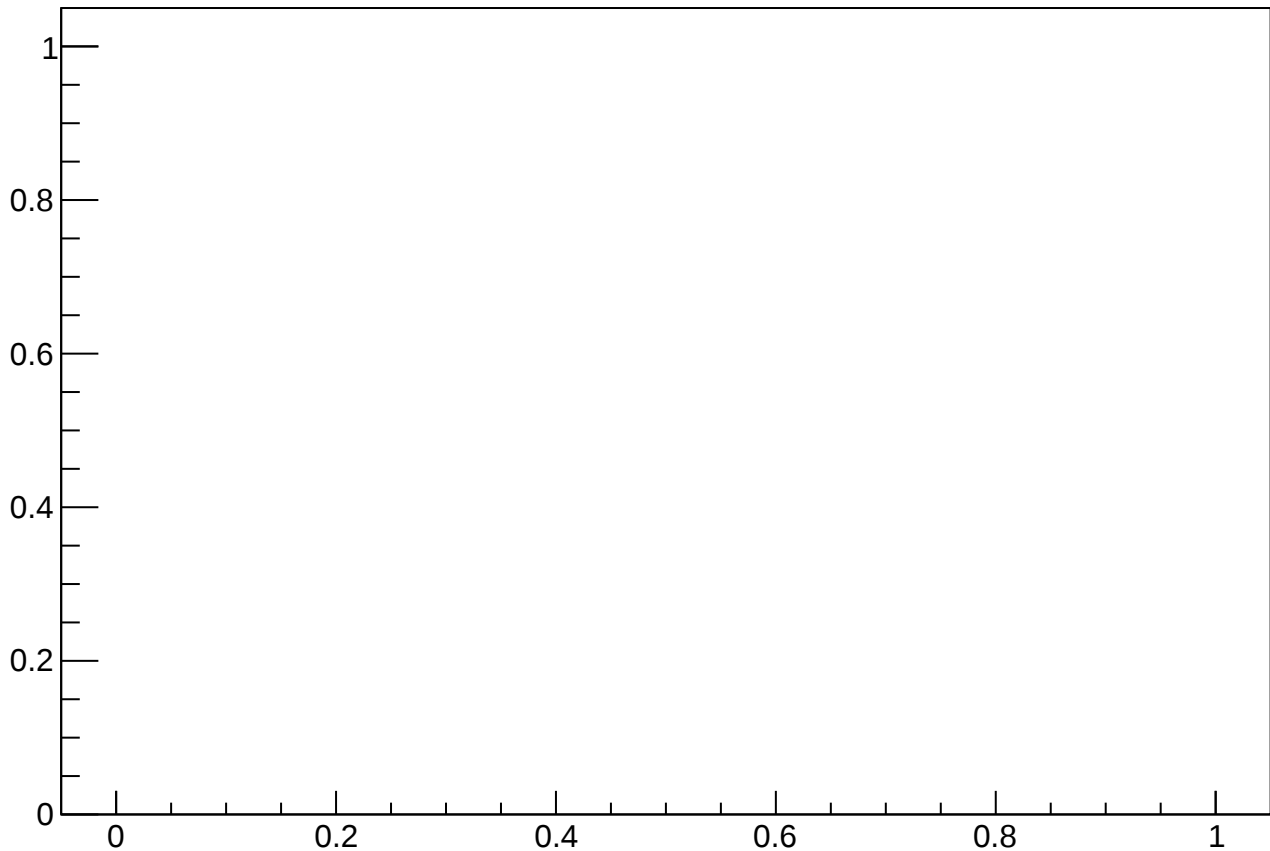
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aX\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

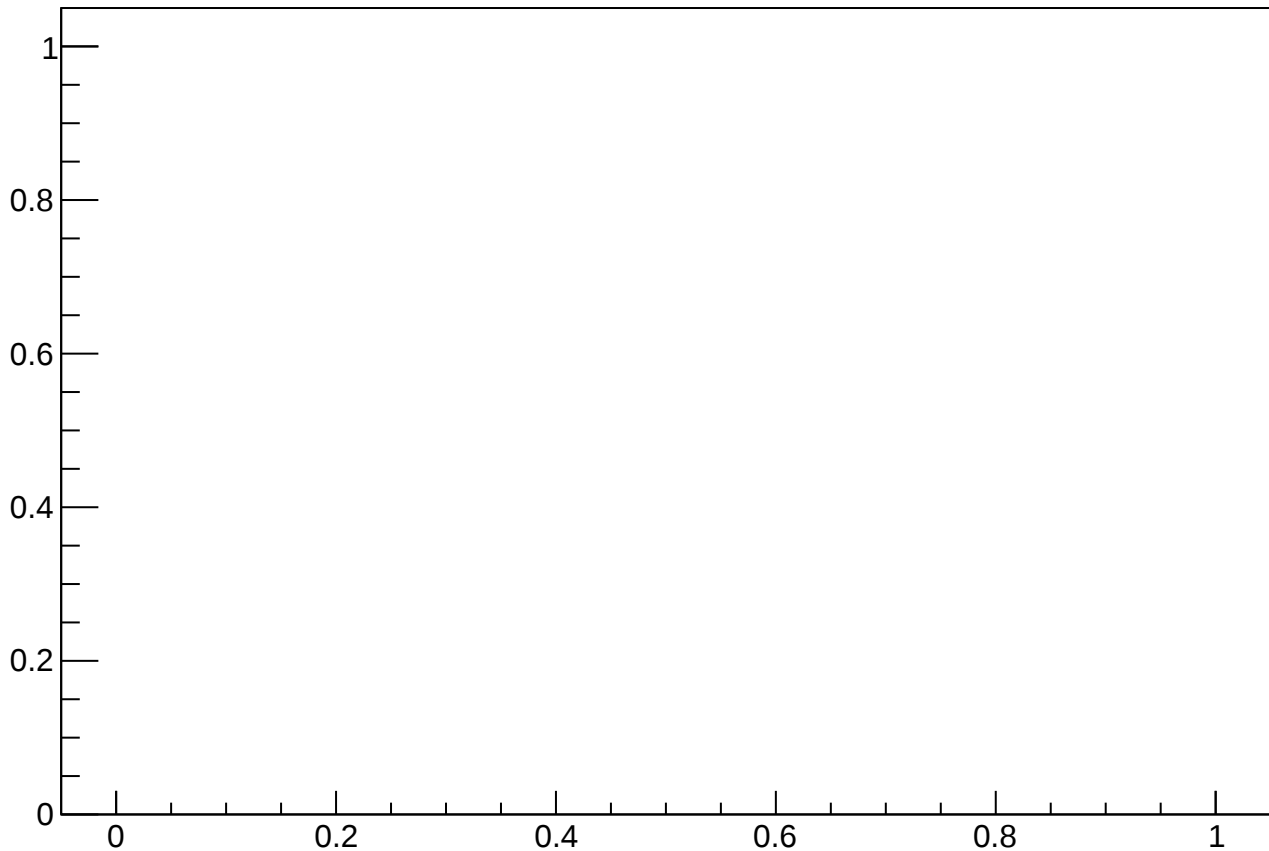
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

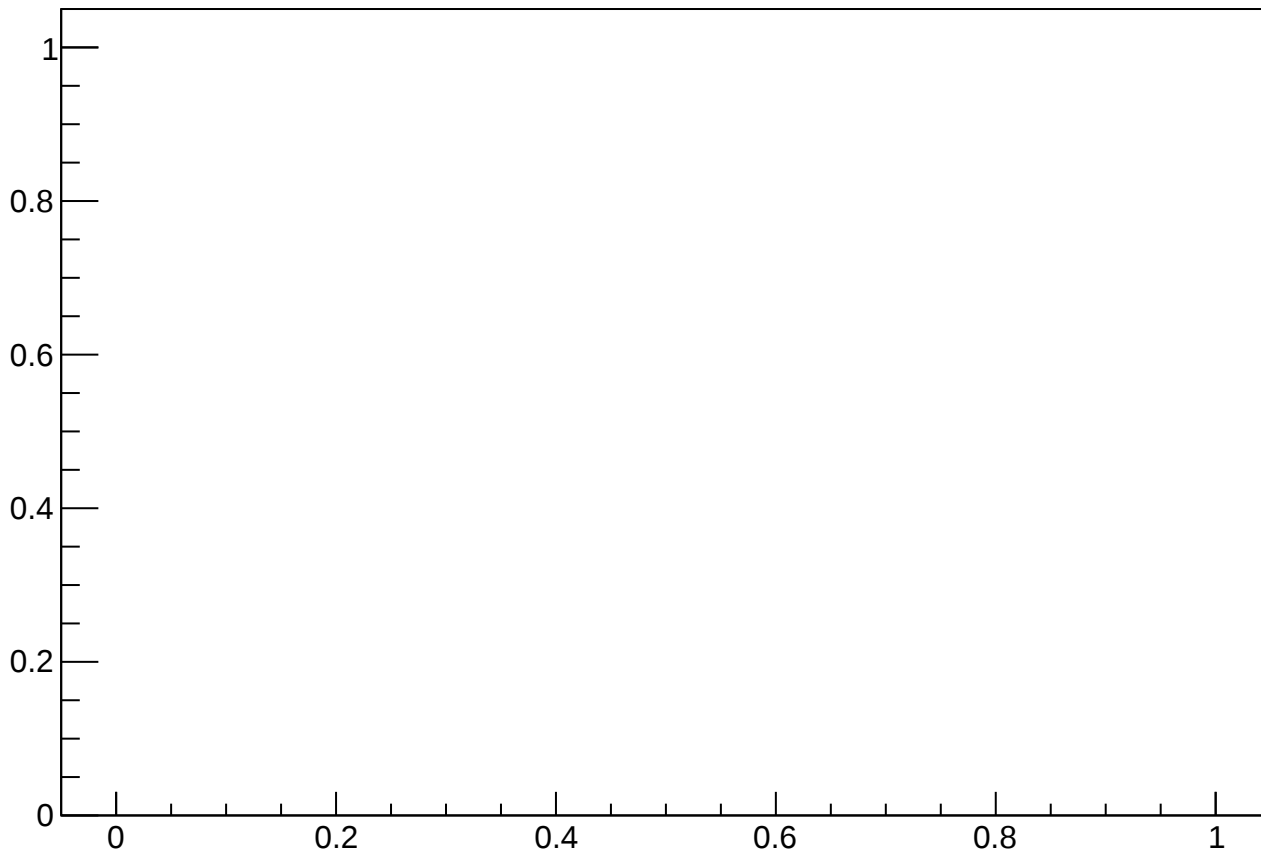
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil3\_mean vs Slug, Sign Corrected



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

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

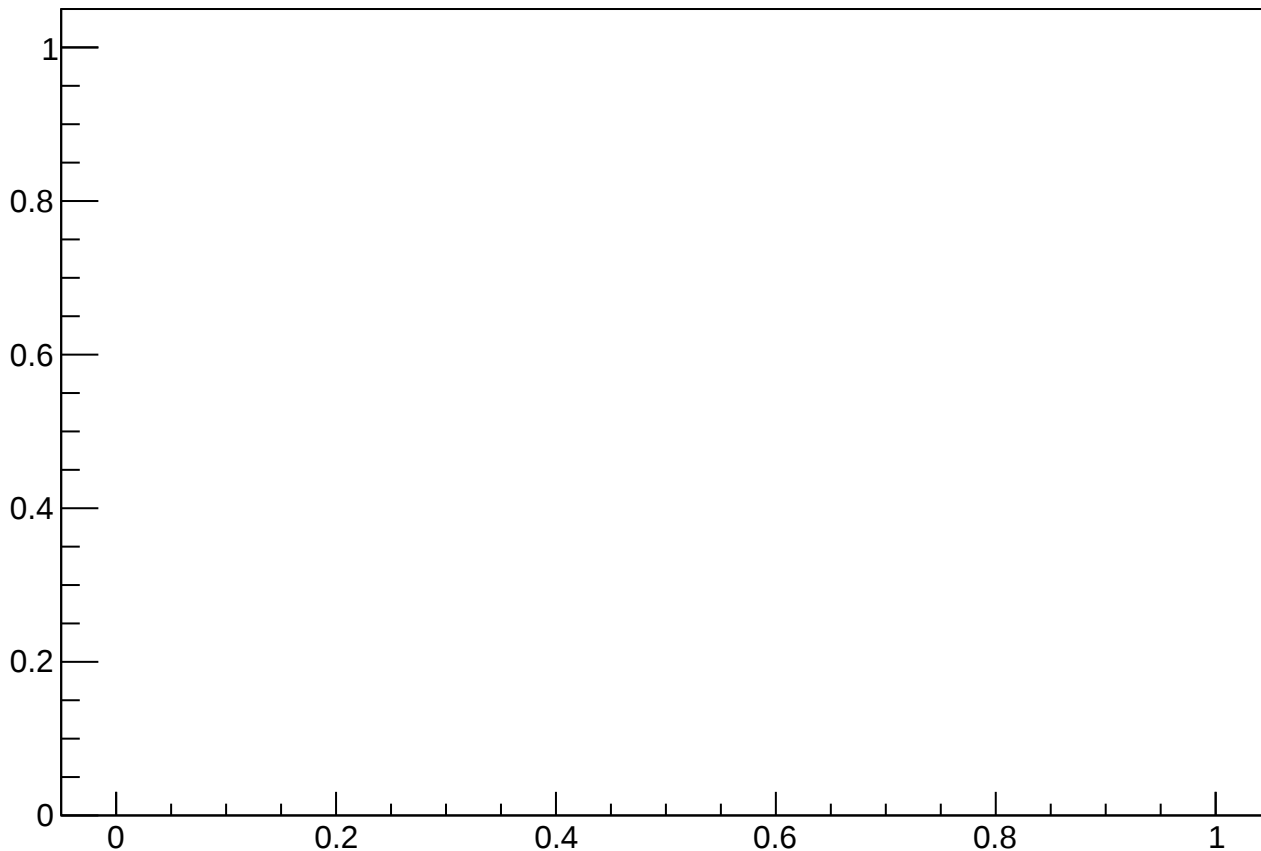
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

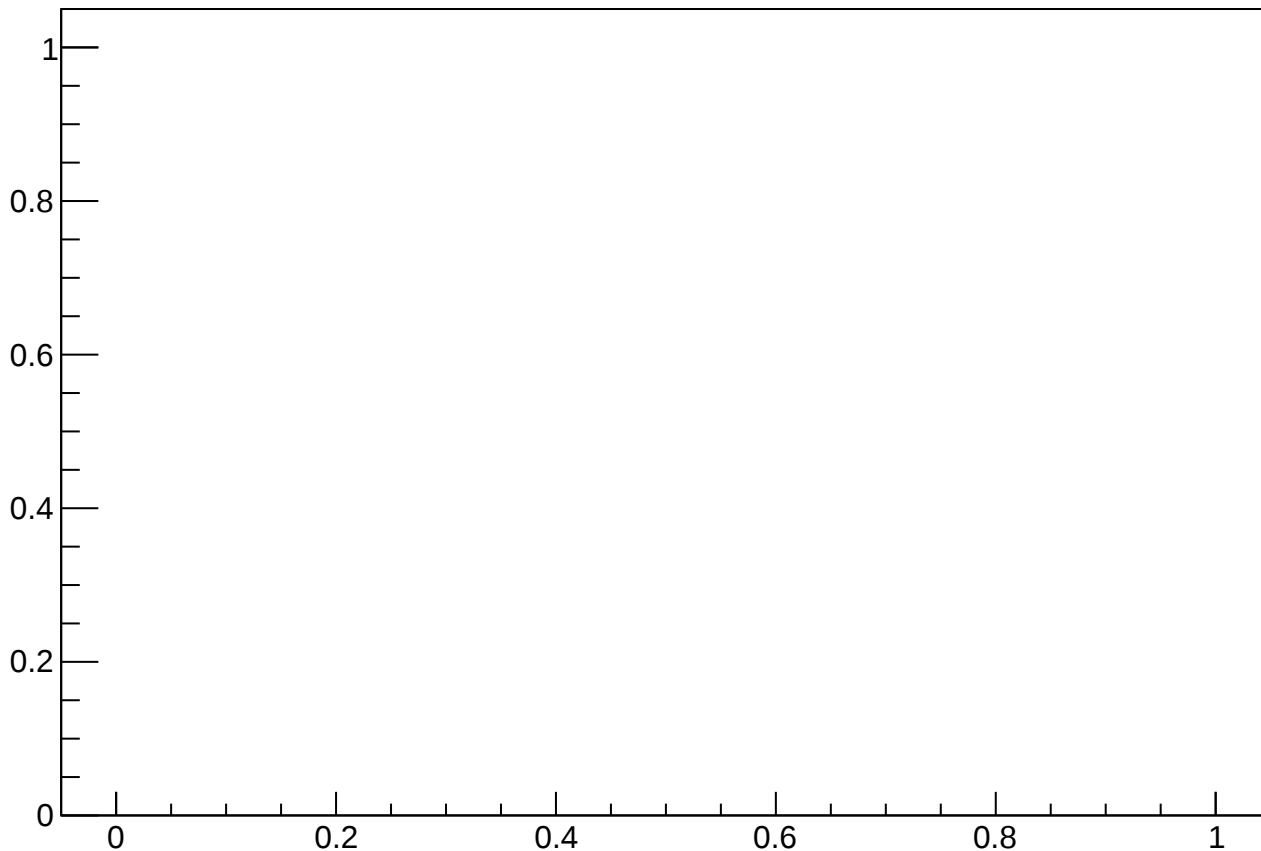
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eX\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

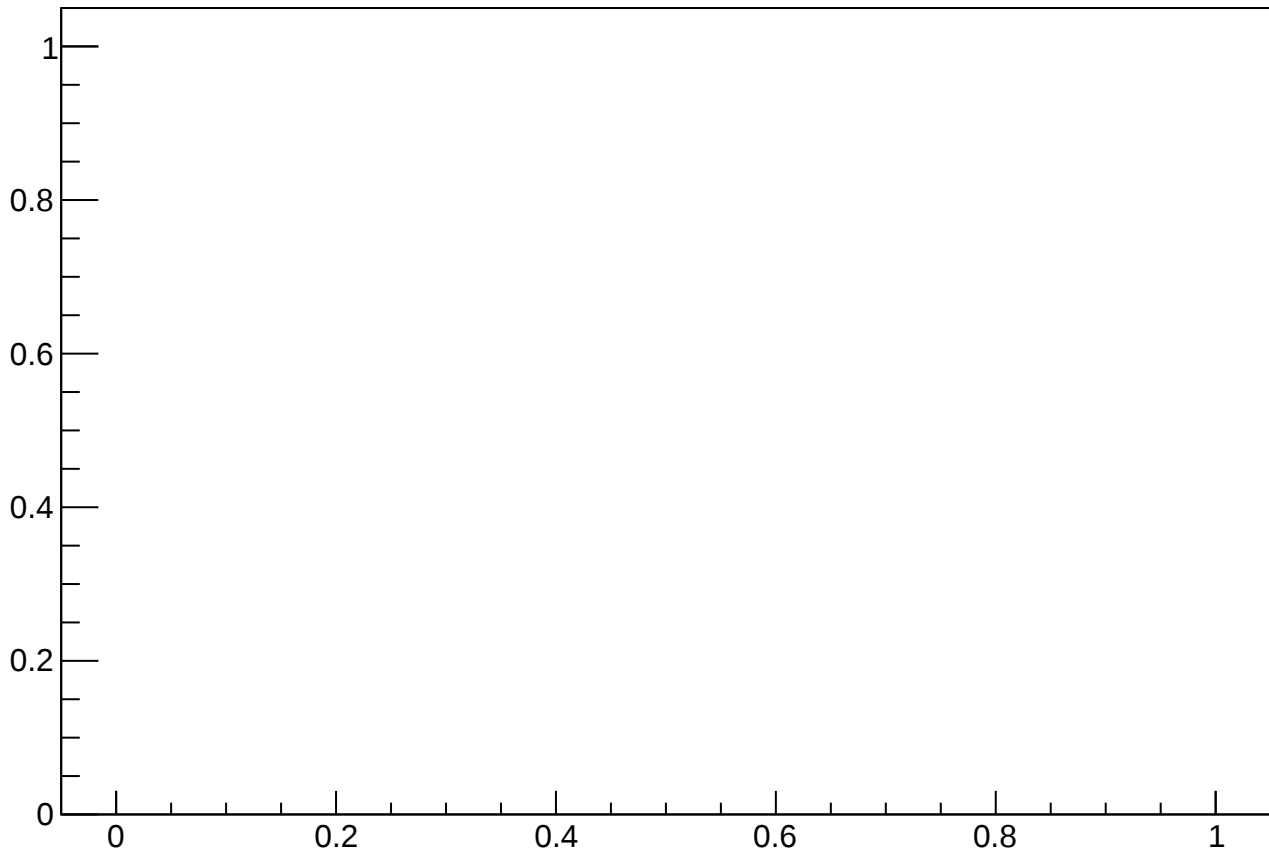
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_11X12X\_coil3\_mean vs Slug, Sign Corrected



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

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

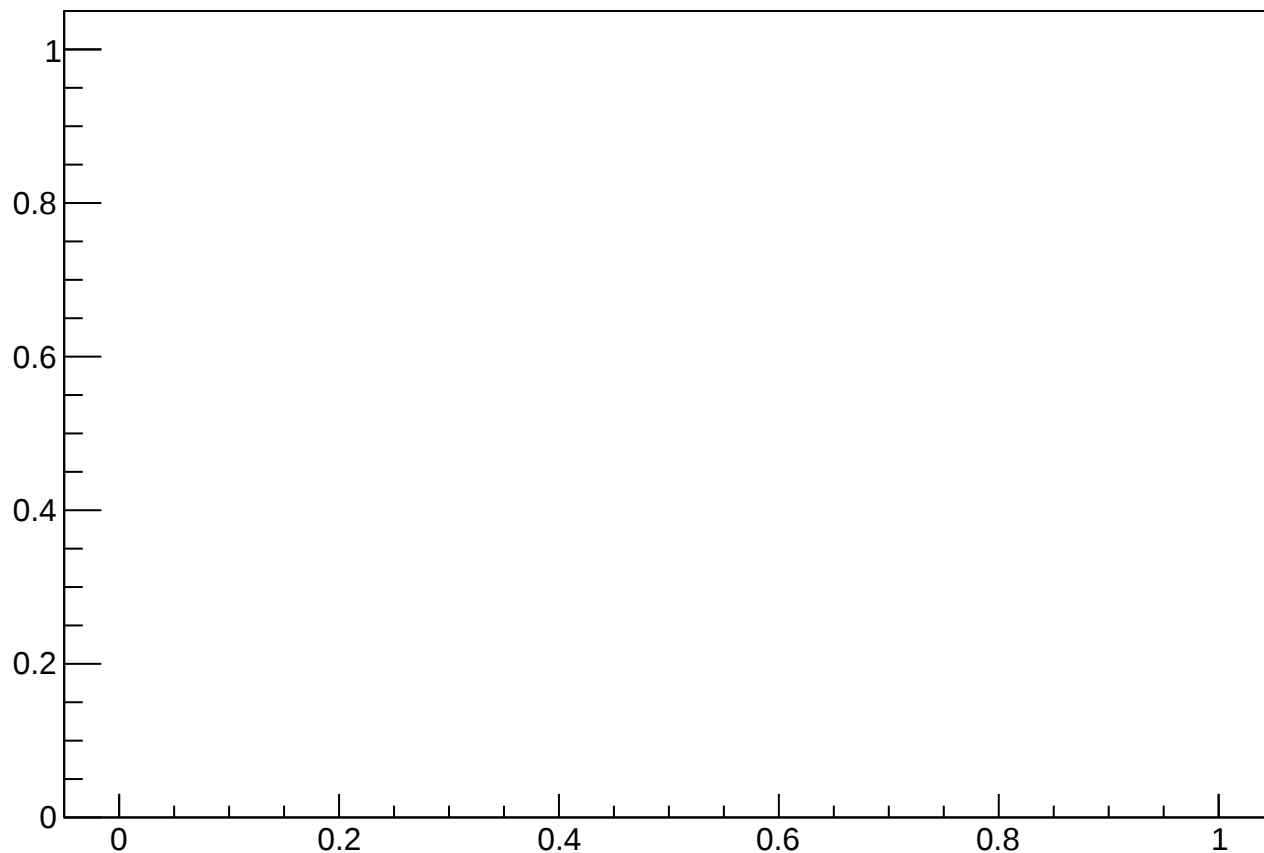
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

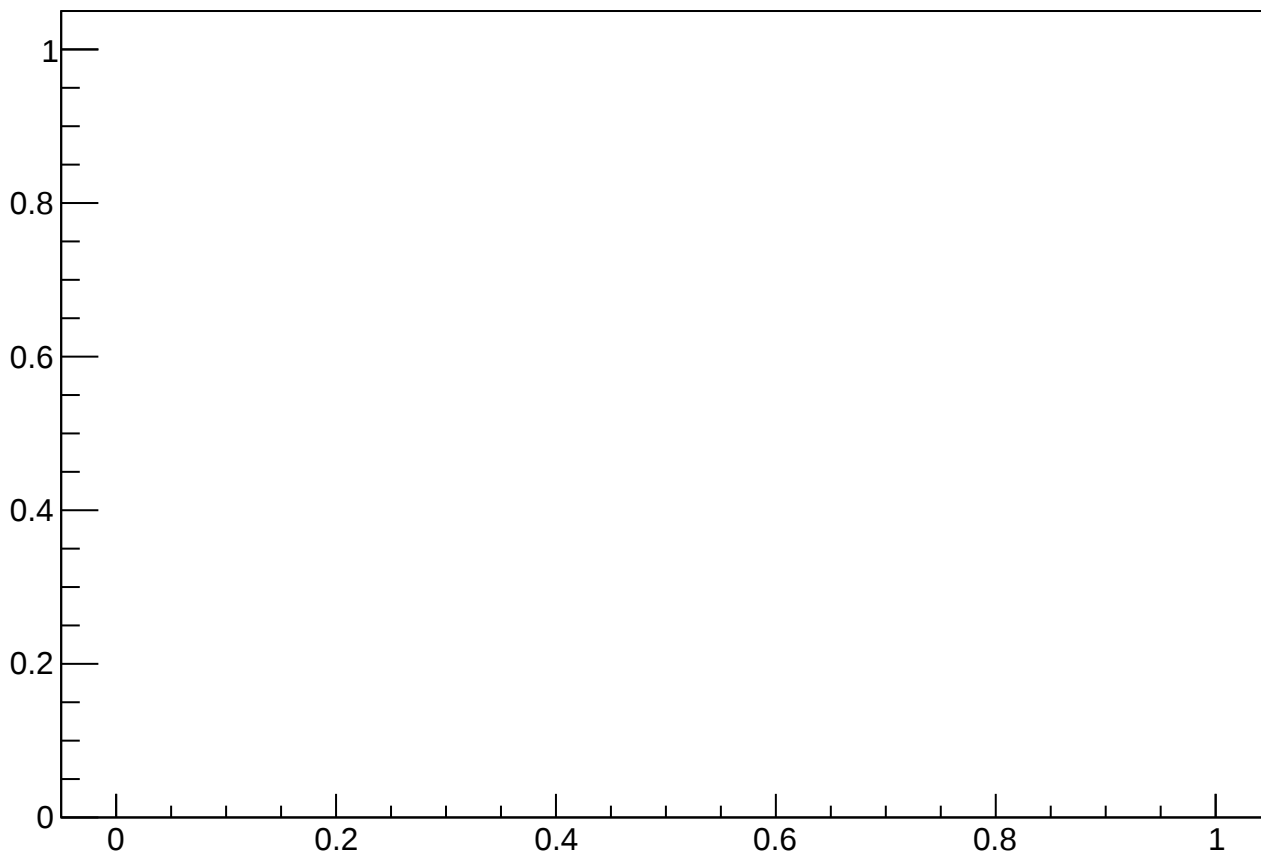
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

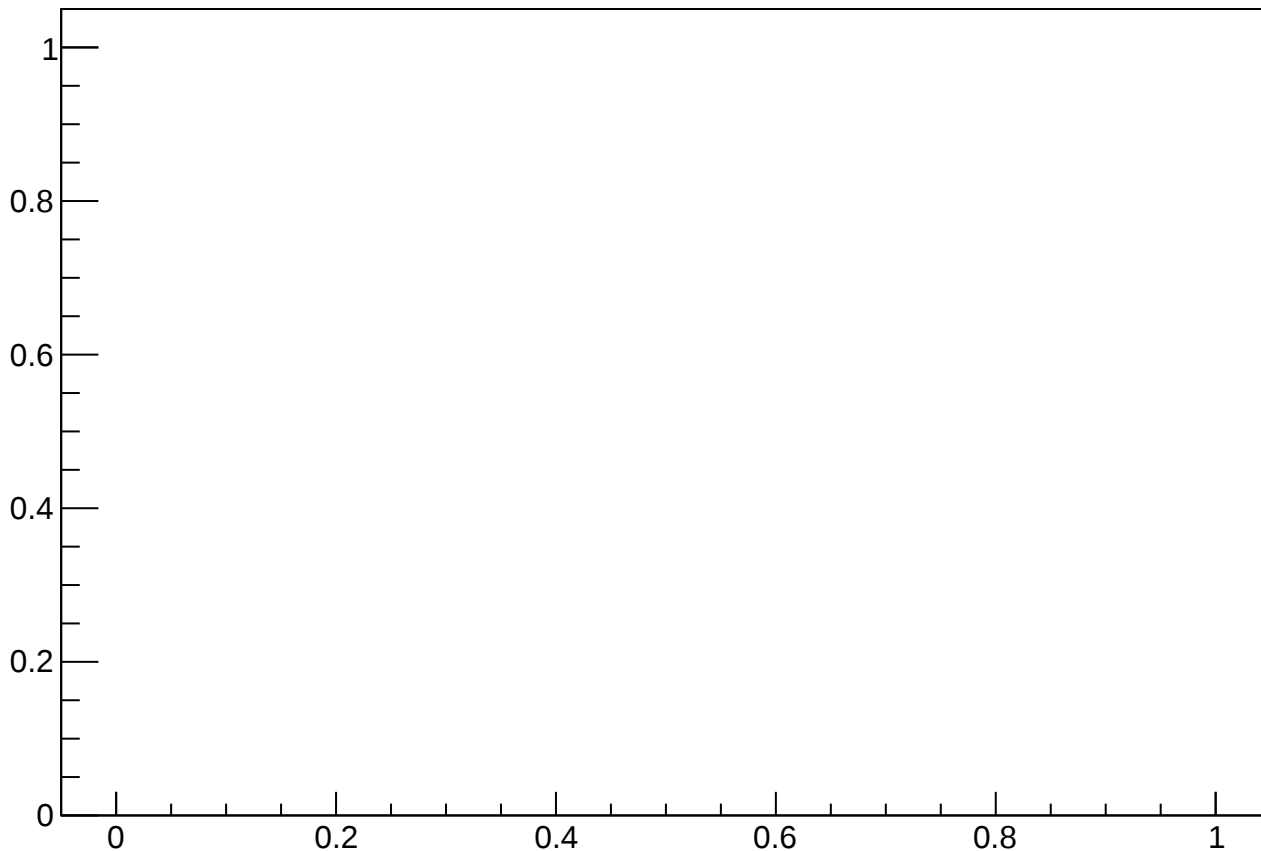
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil3\_mean vs Slug, Sign Corrected



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

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

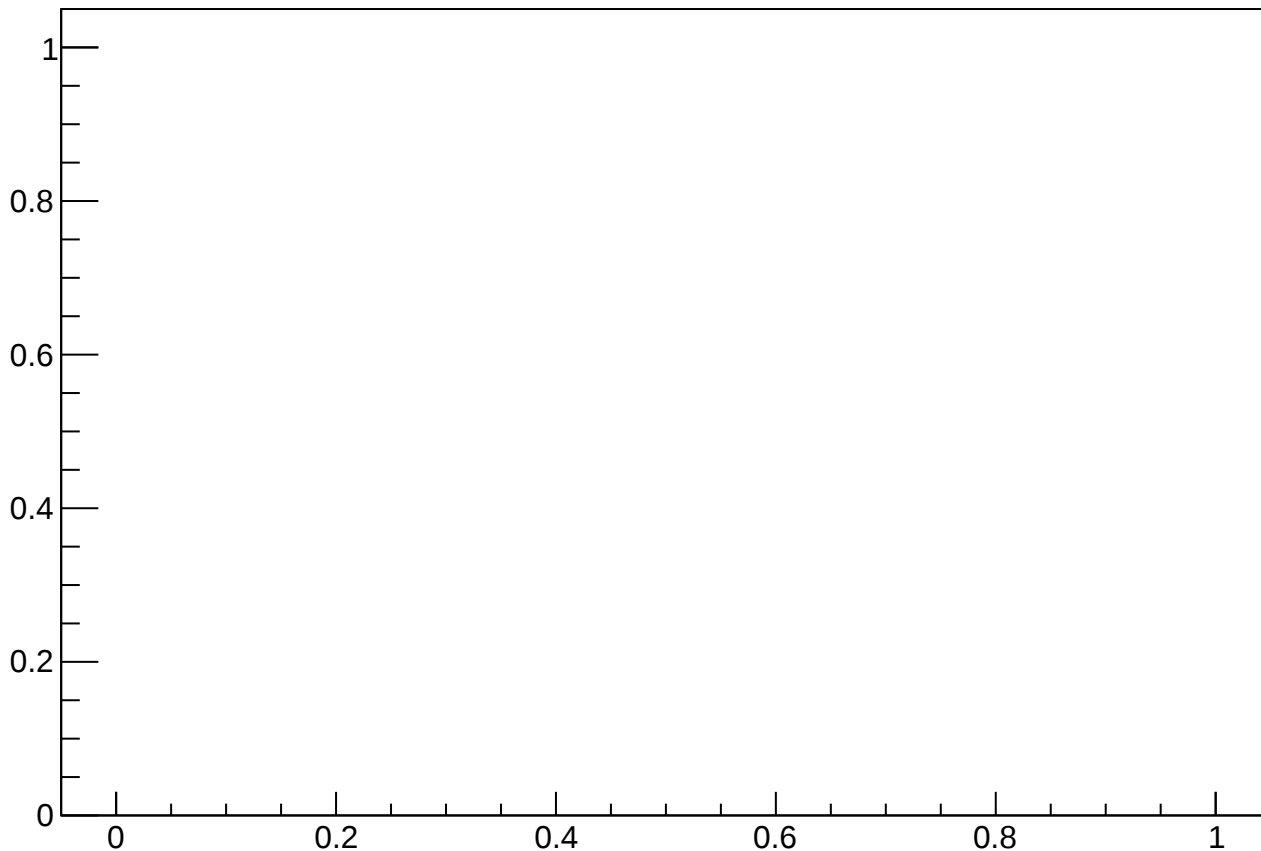
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aY\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

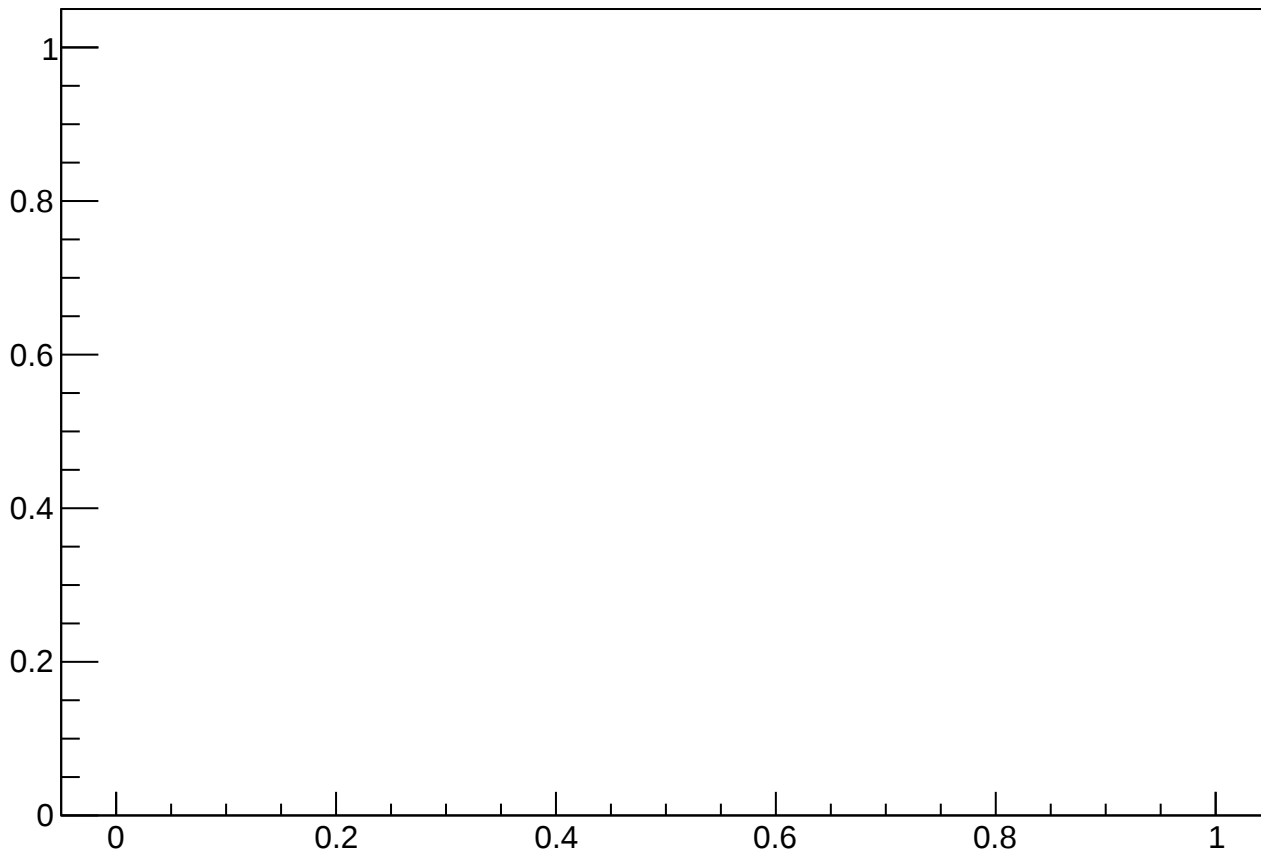
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

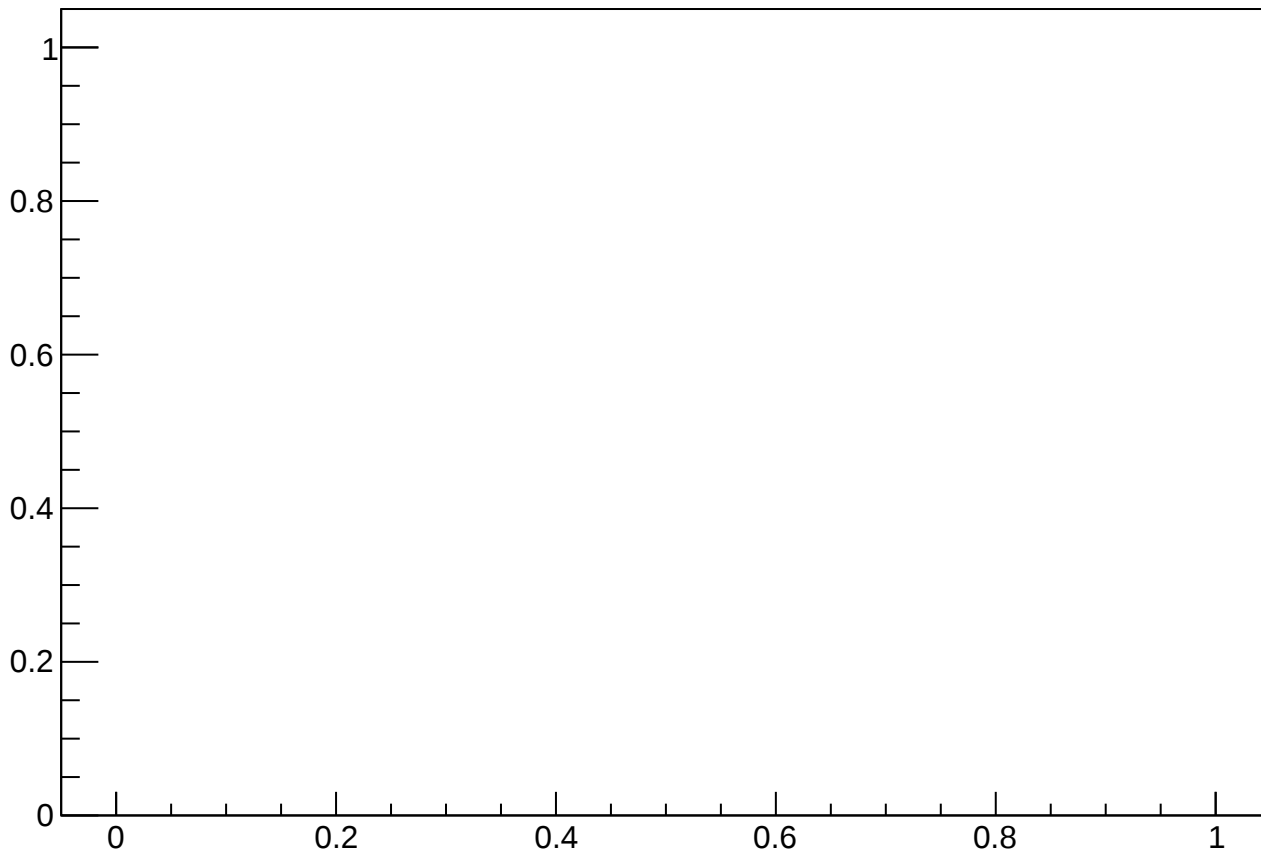
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil3\_mean vs Slug, Sign Corrected



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

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

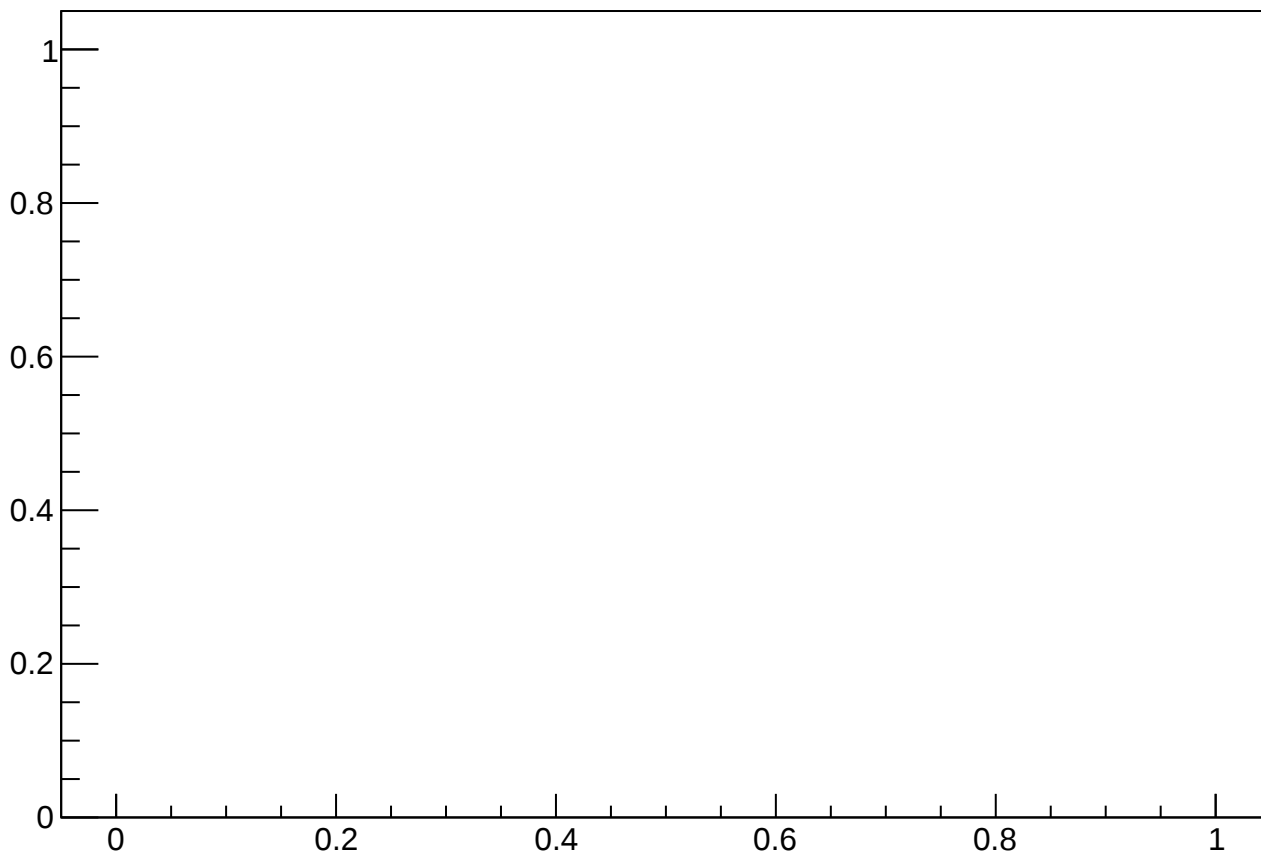
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eY\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

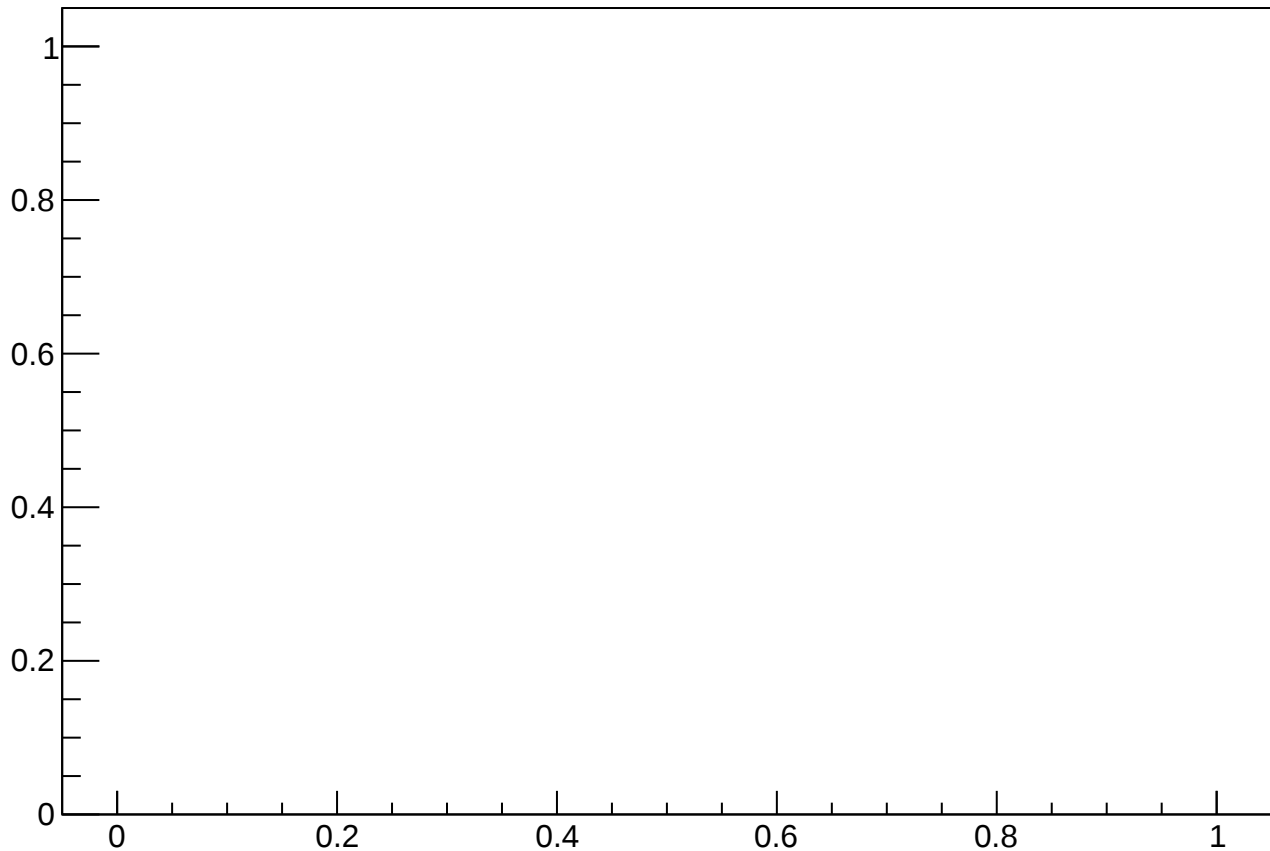
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eY\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

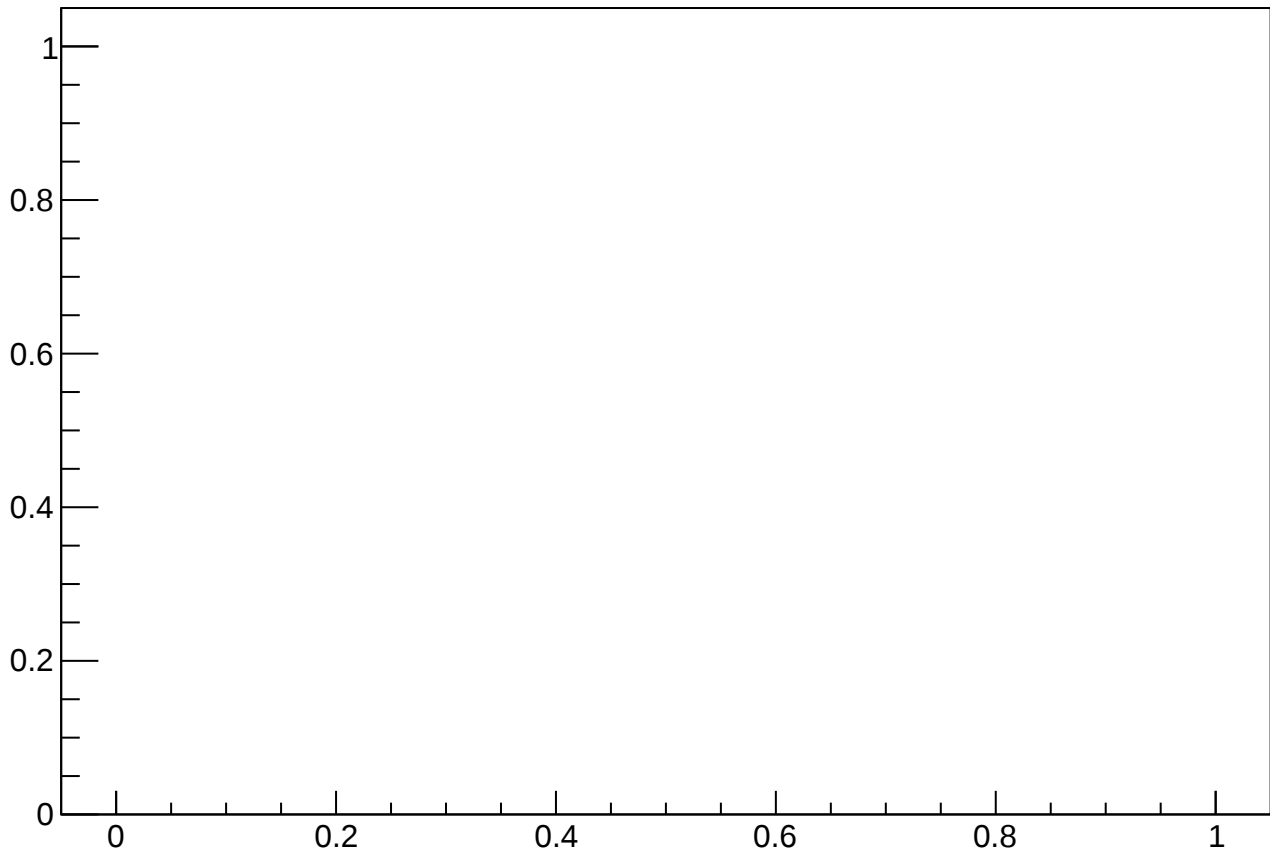
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usl\_coil3\_mean vs Slug, Sign Corrected



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

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

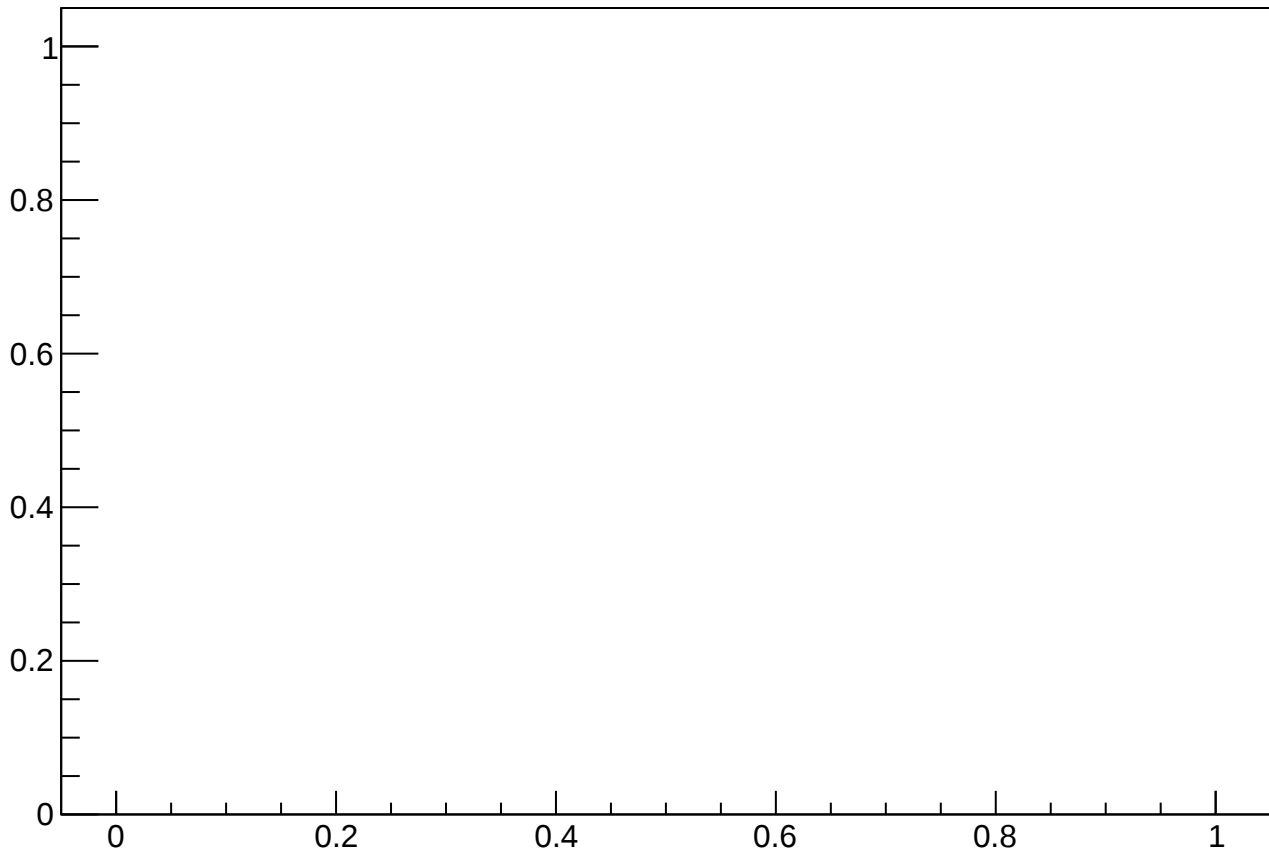
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usl\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

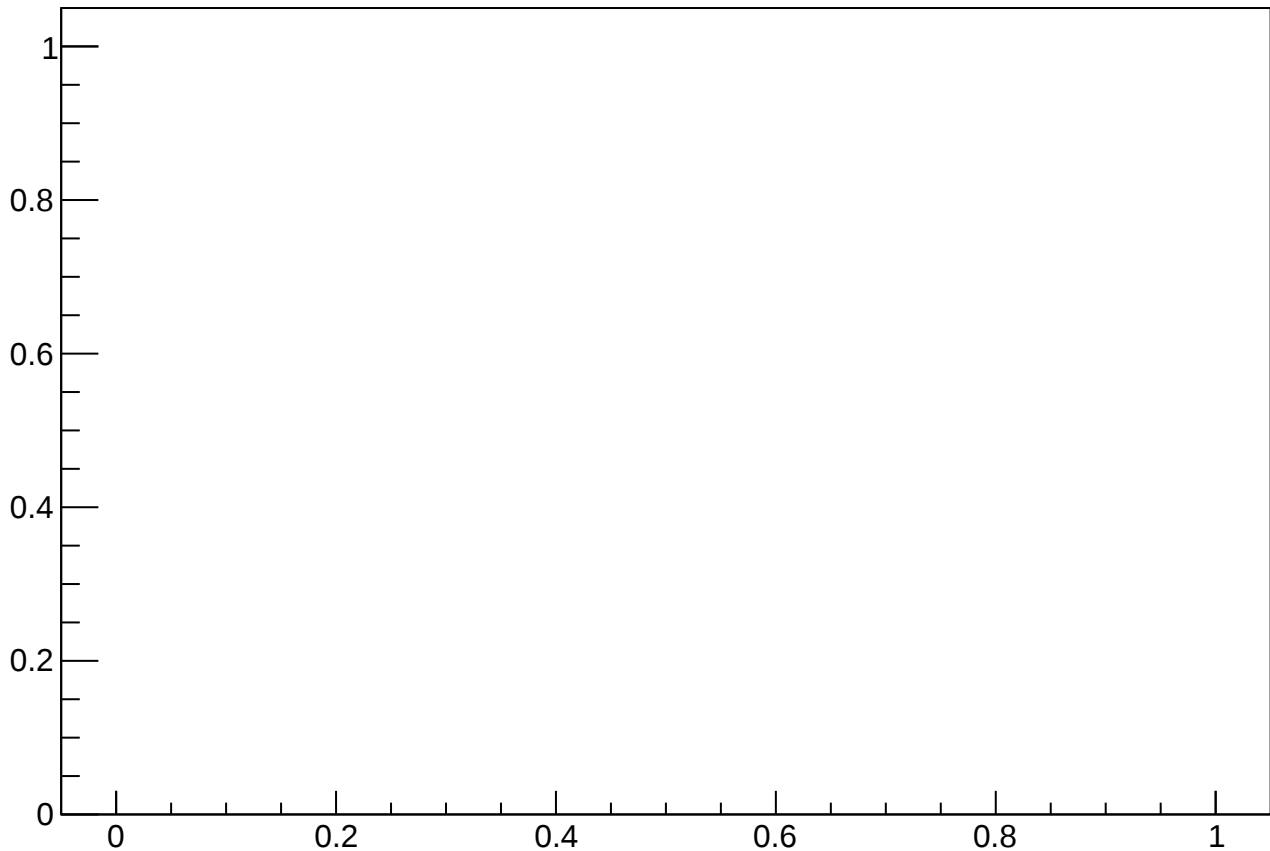
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usl\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

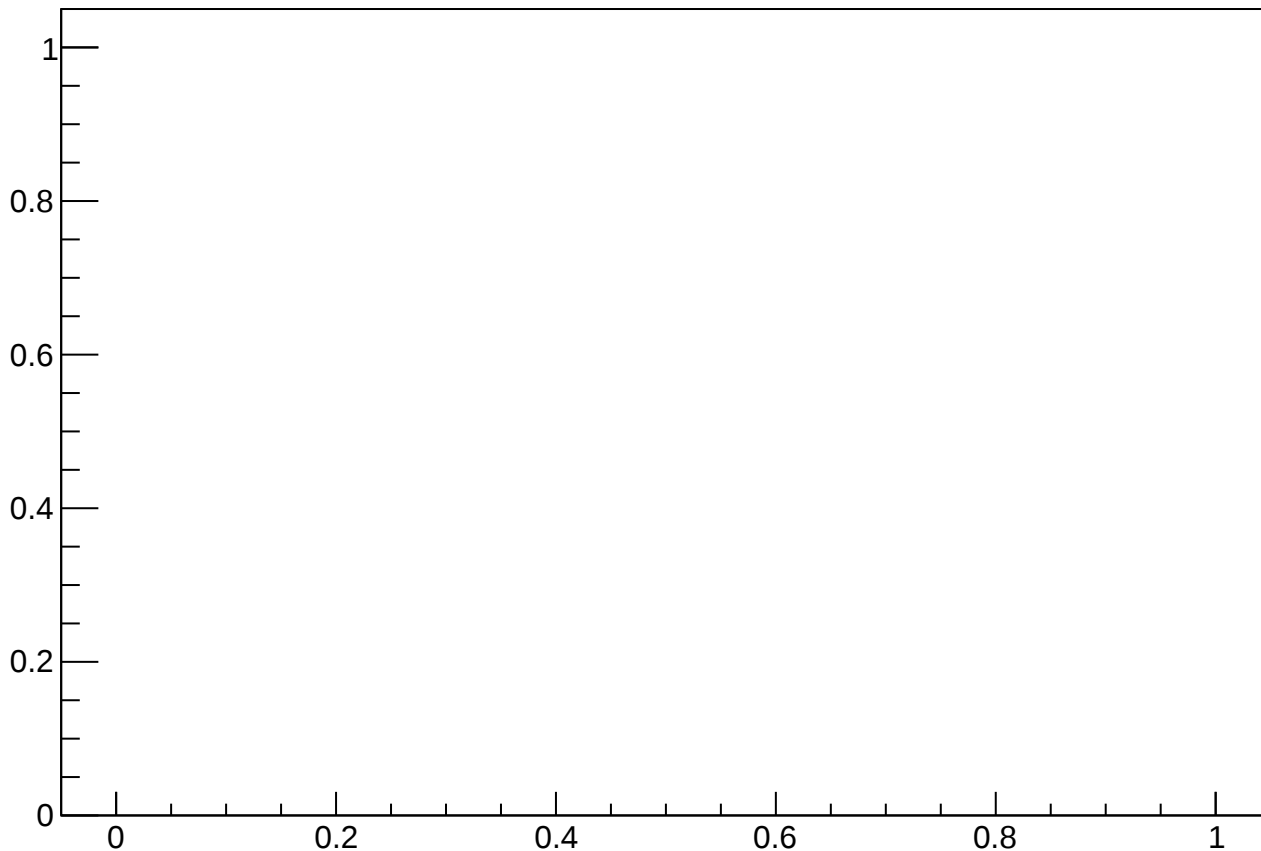
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usr\_coil3\_mean vs Slug, Sign Corrected



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

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

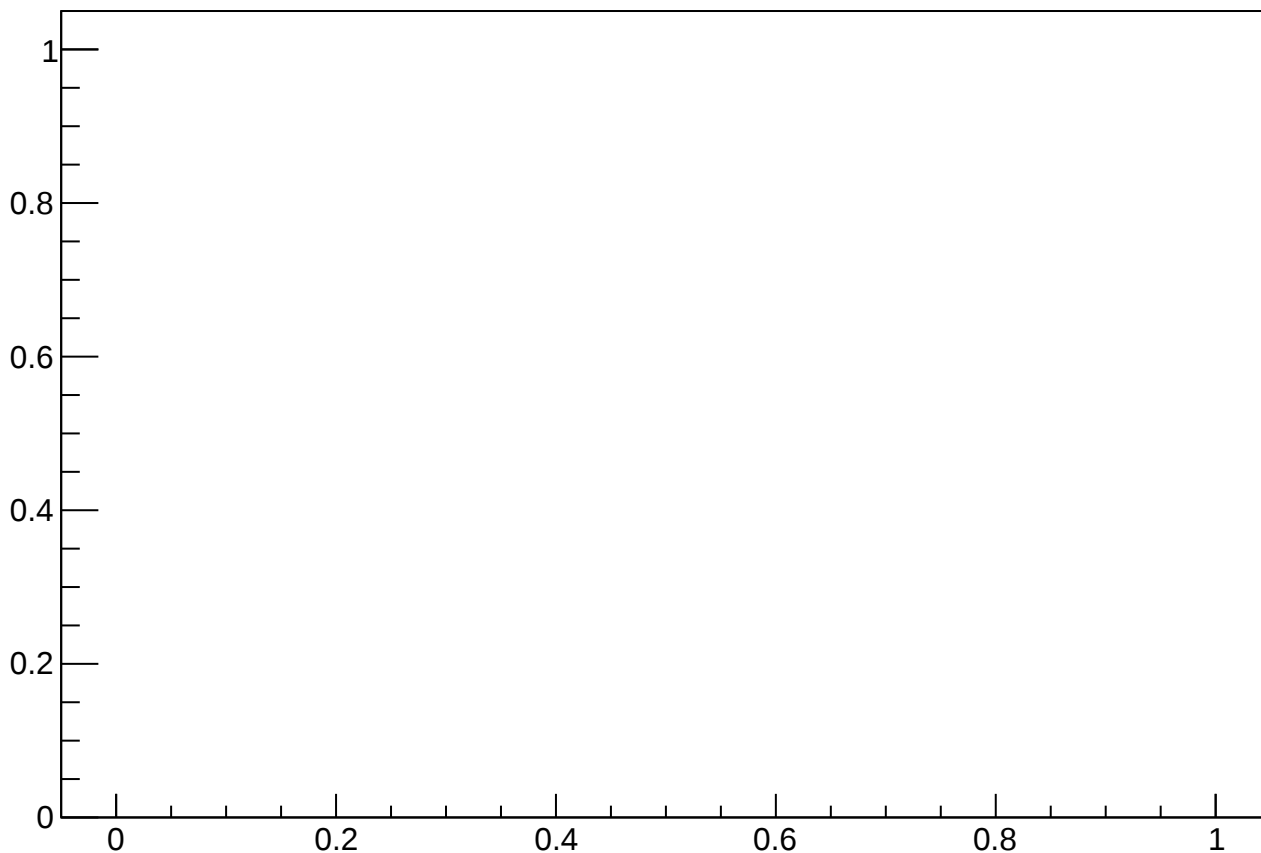
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

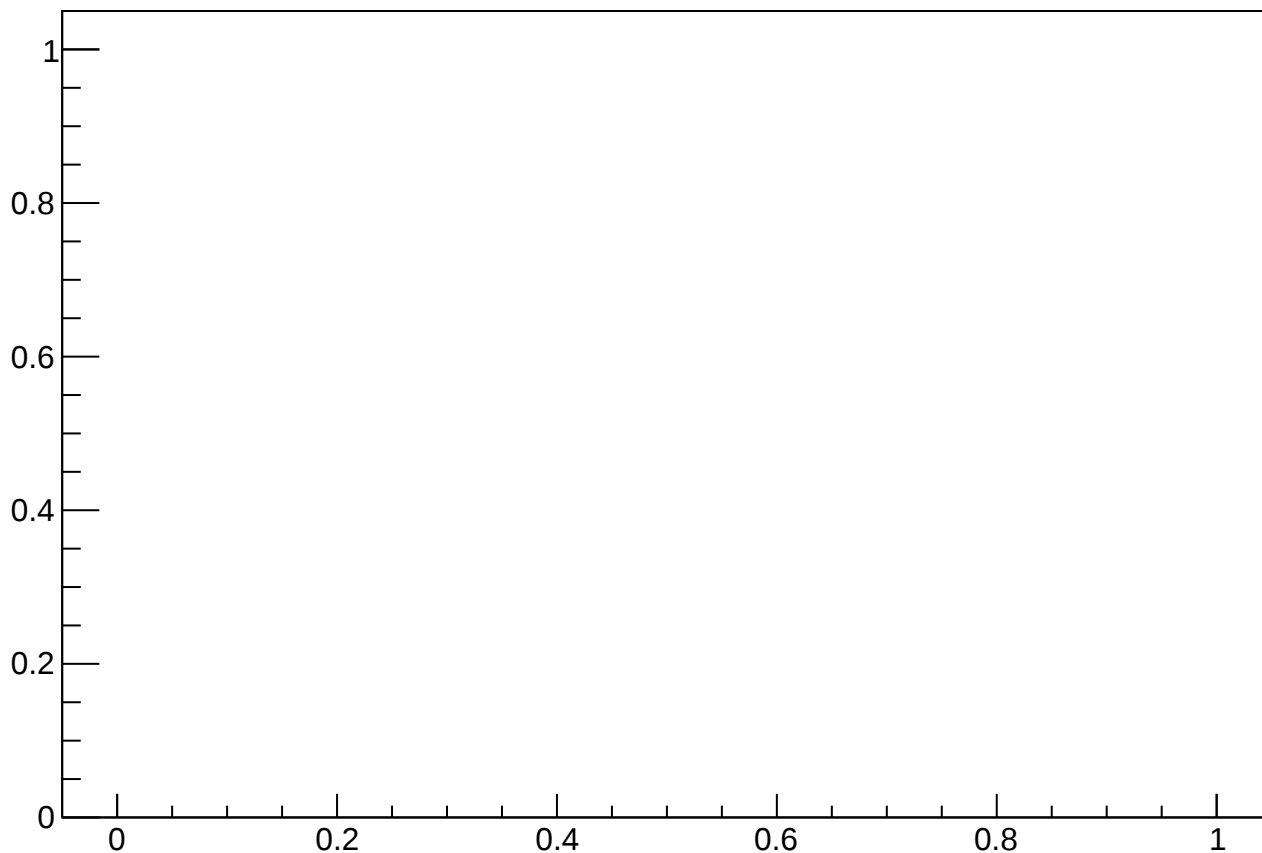
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

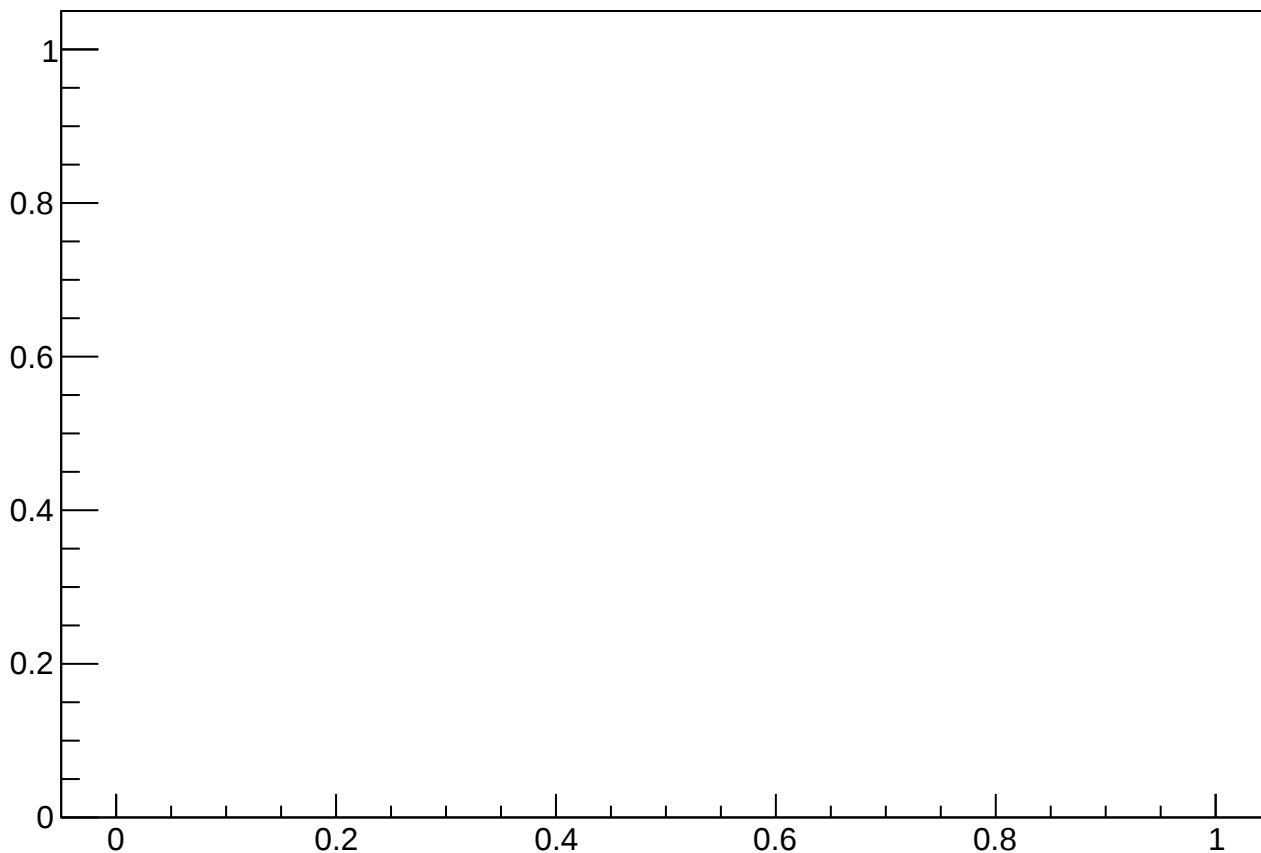
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl1\_coil3\_mean vs Slug, Sign Corrected



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

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

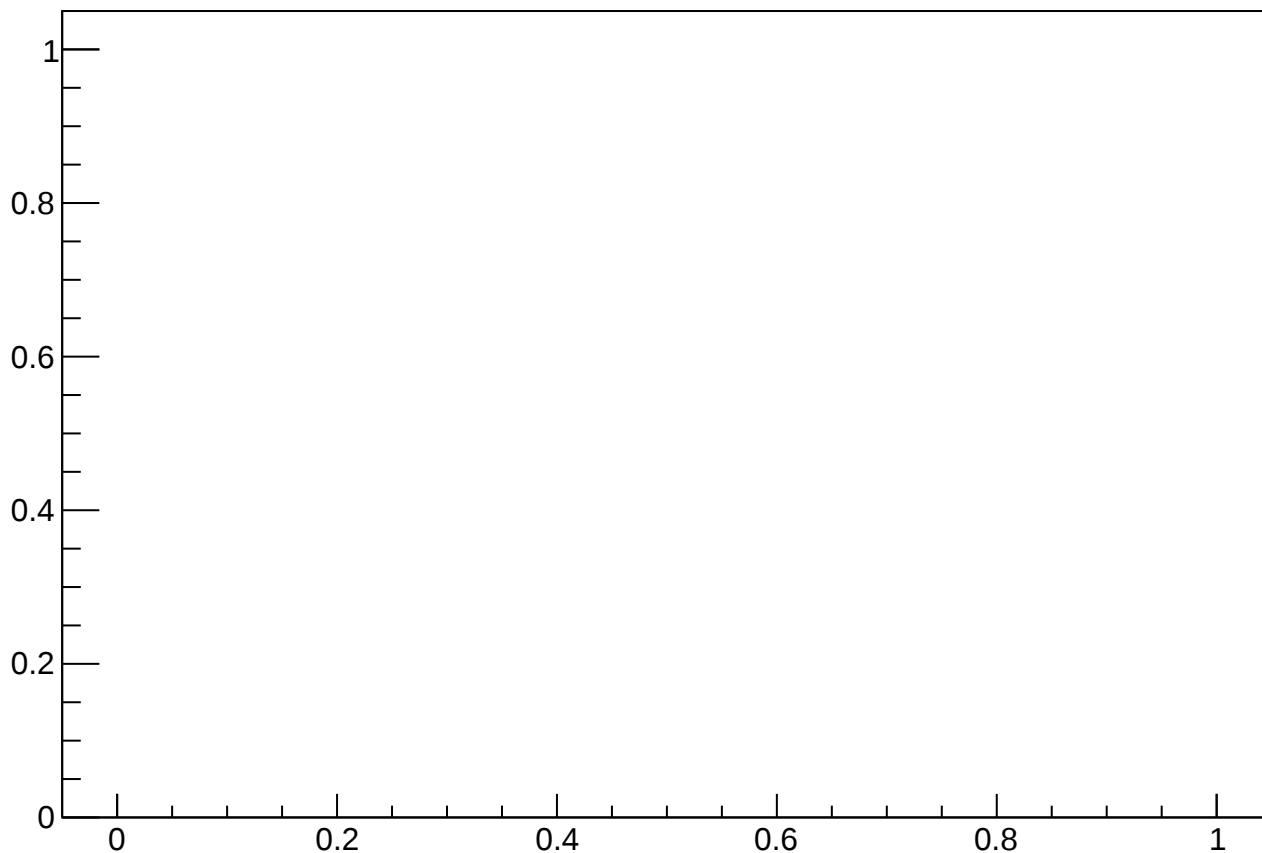
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl1\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

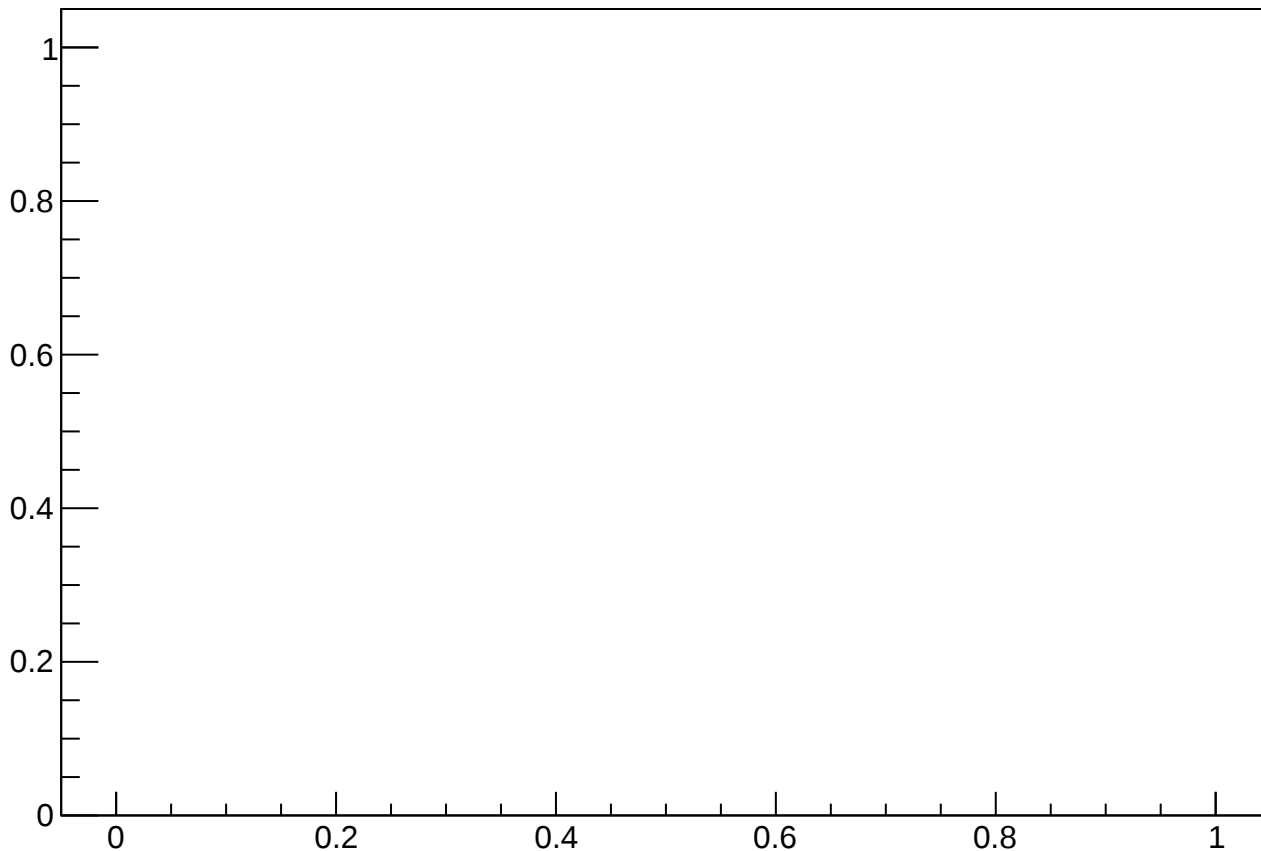
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

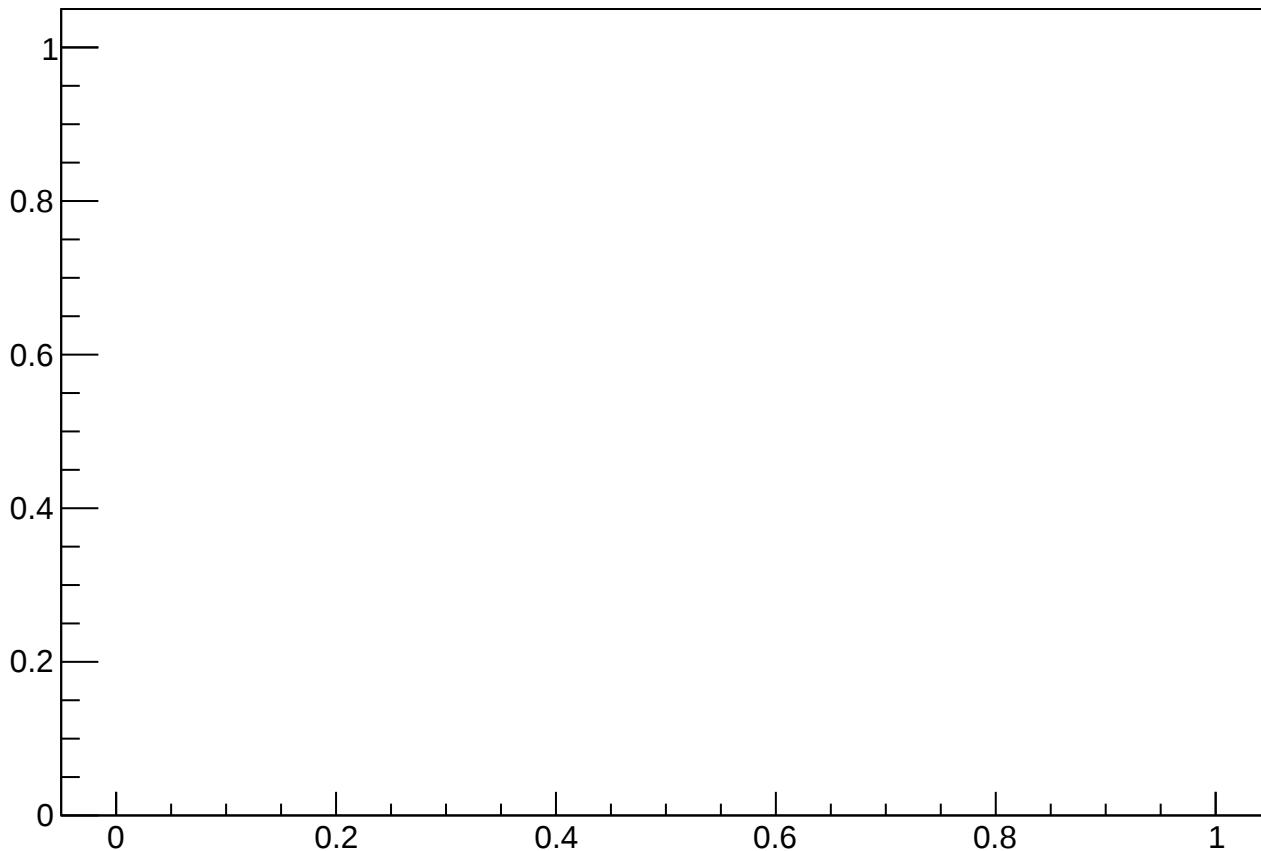
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl2\_coil3\_mean vs Slug, Sign Corrected



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

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

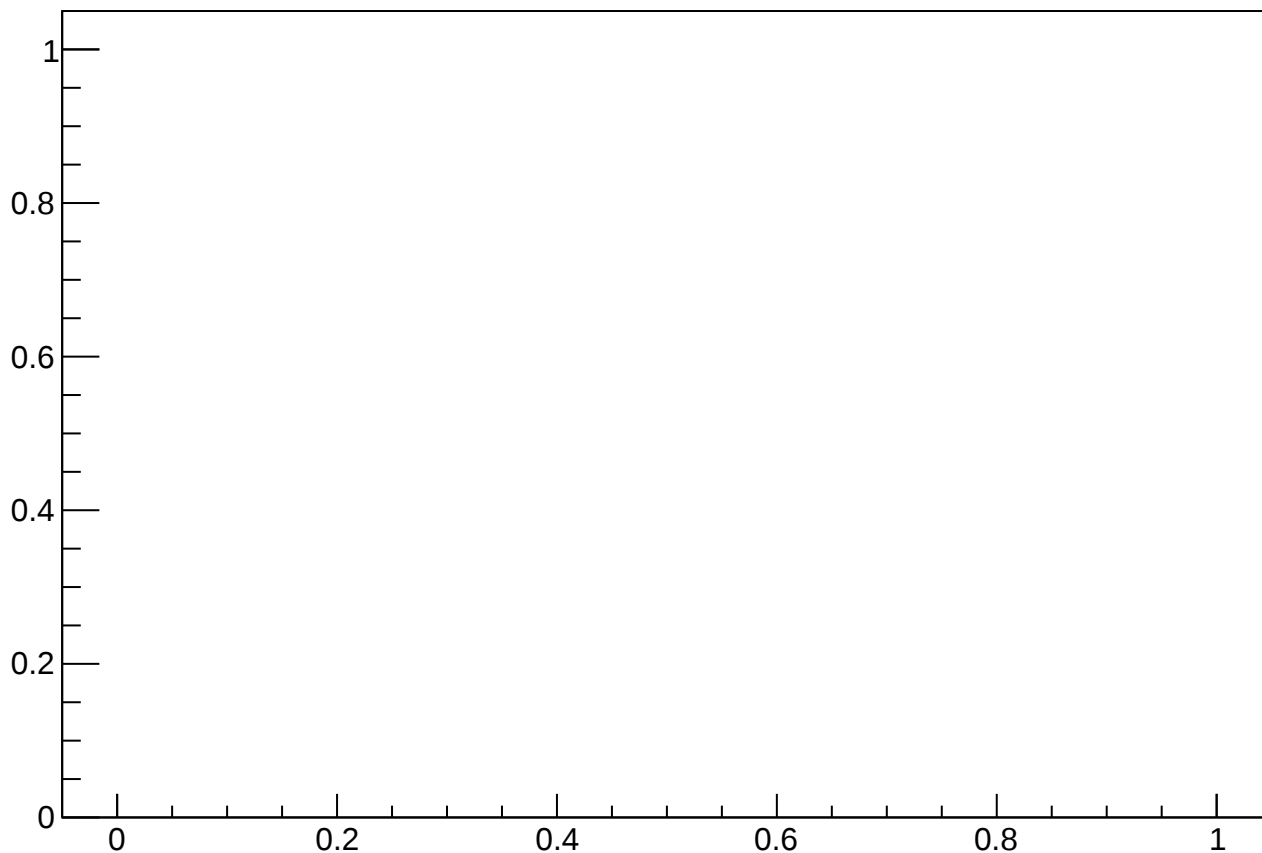
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

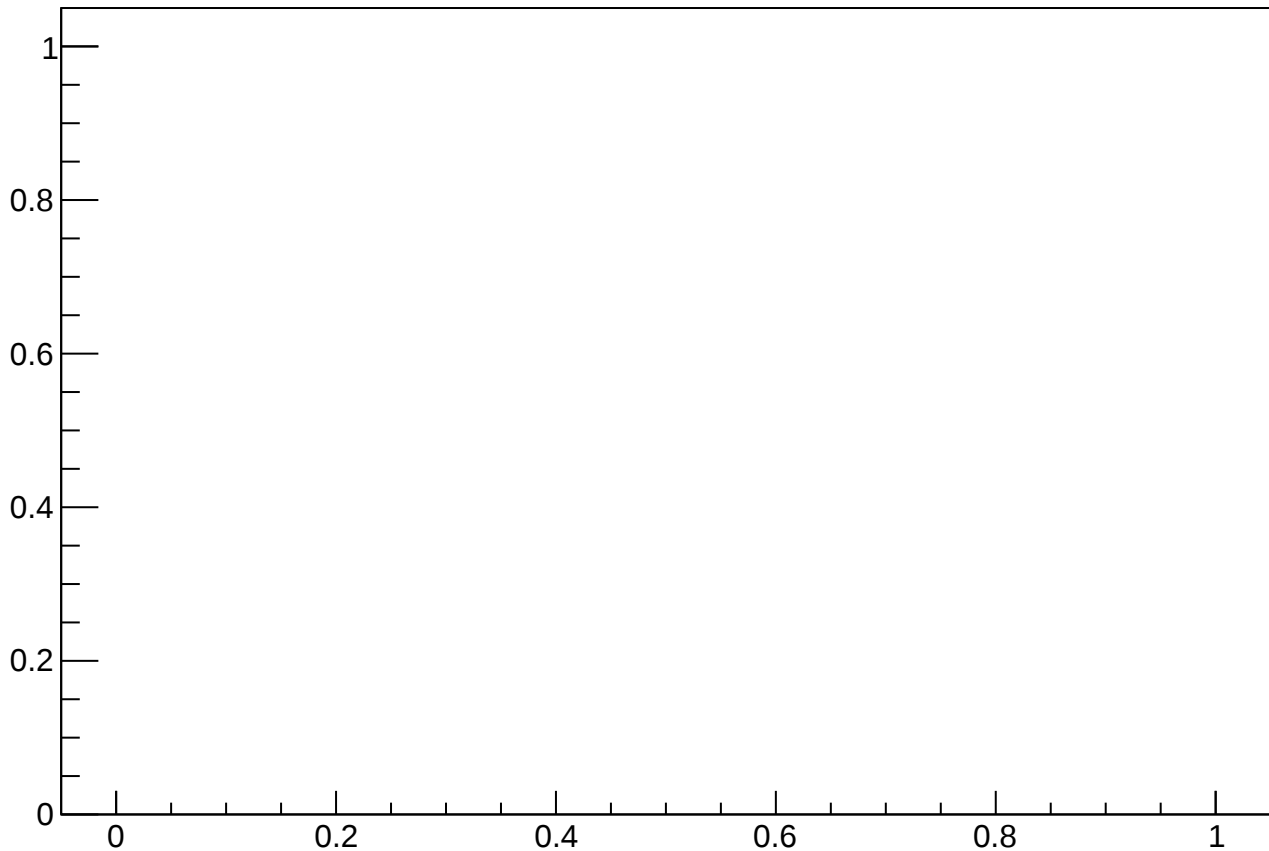
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

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

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

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

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

# dit\_atr1\_coil3\_mean vs Slug, Sign Corrected



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

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

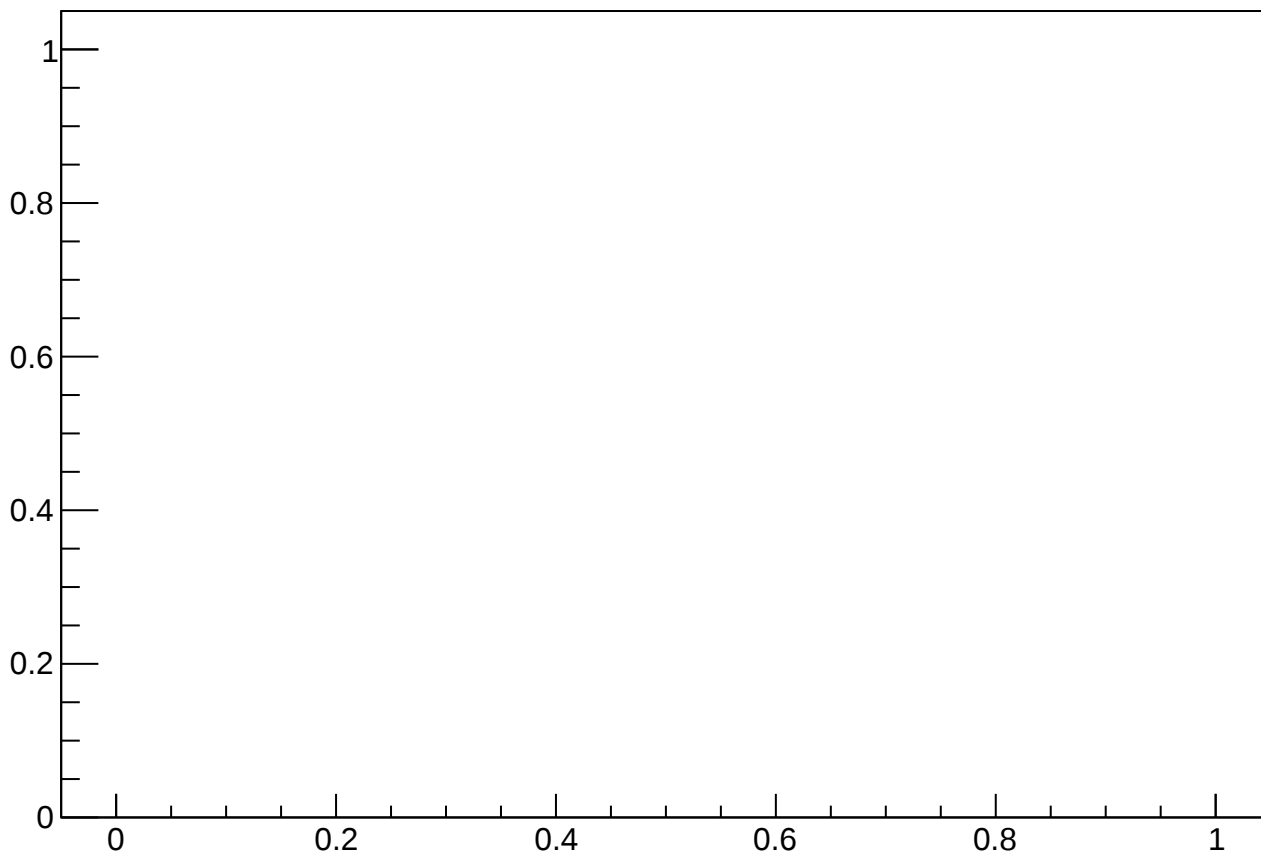
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr1\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

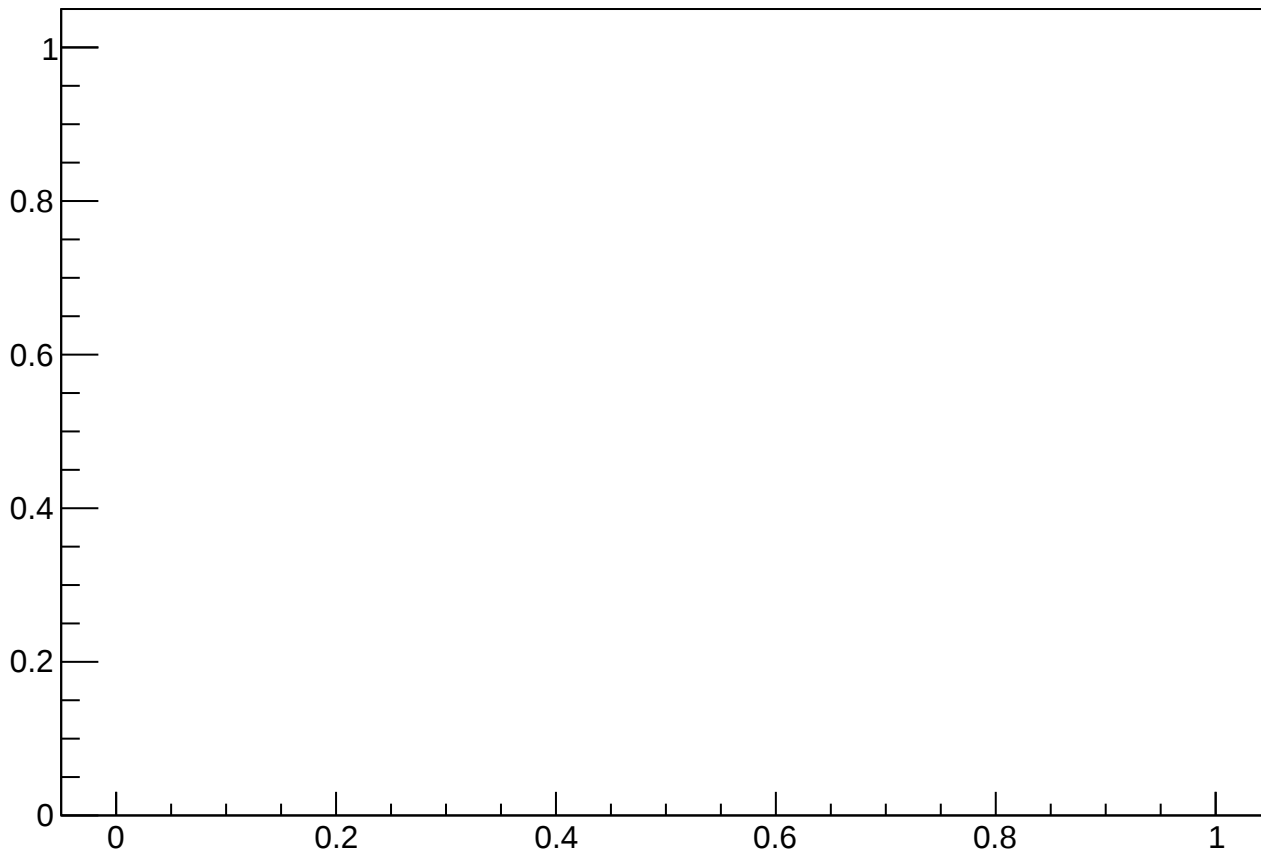
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

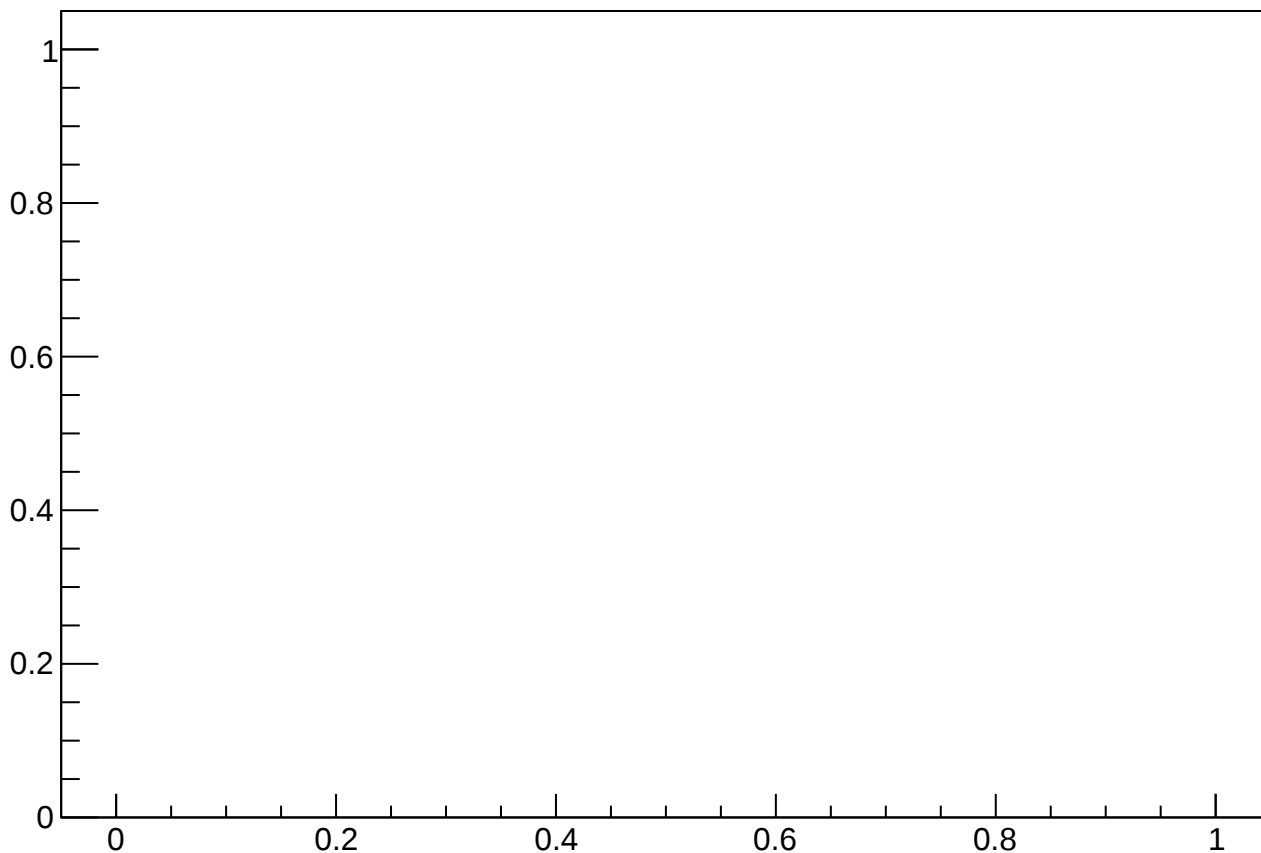
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr2\_coil3\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

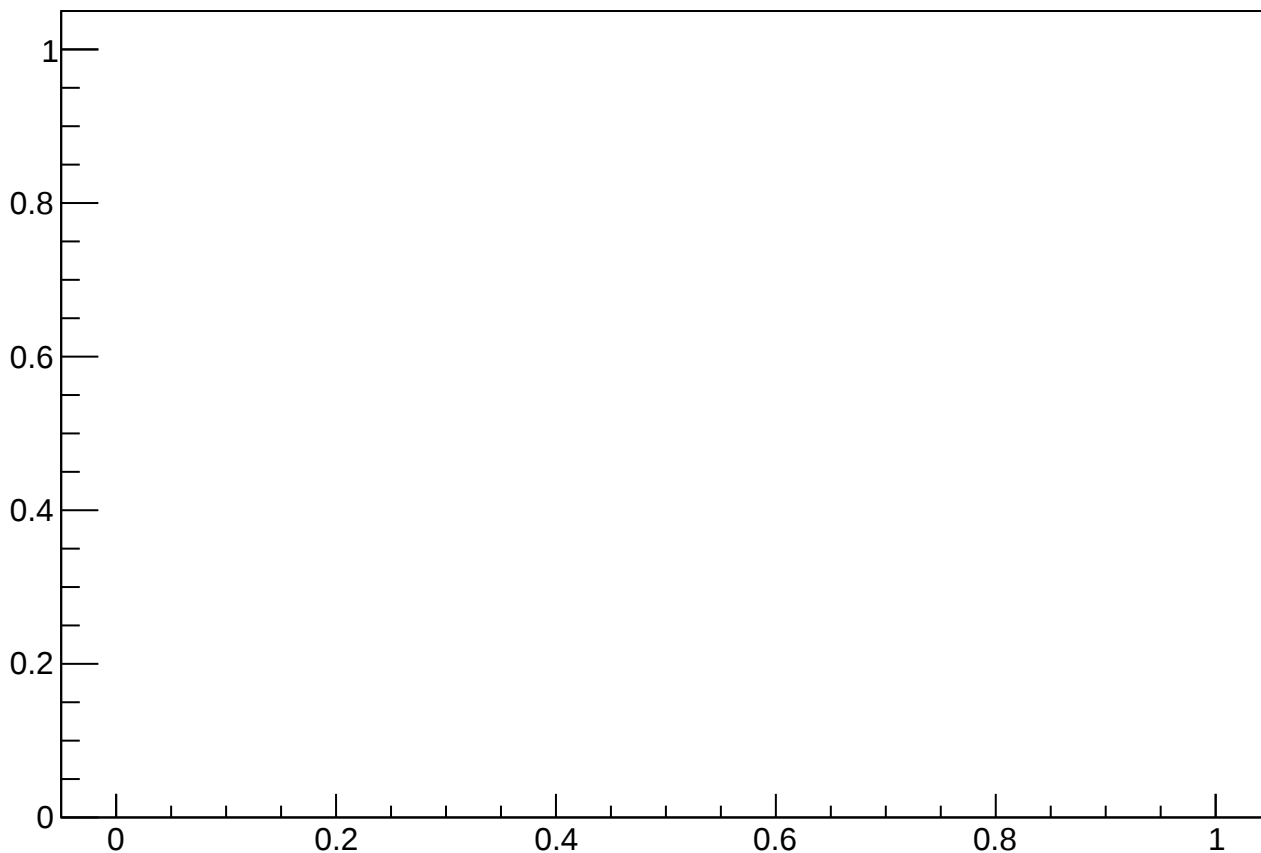
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_atr2\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

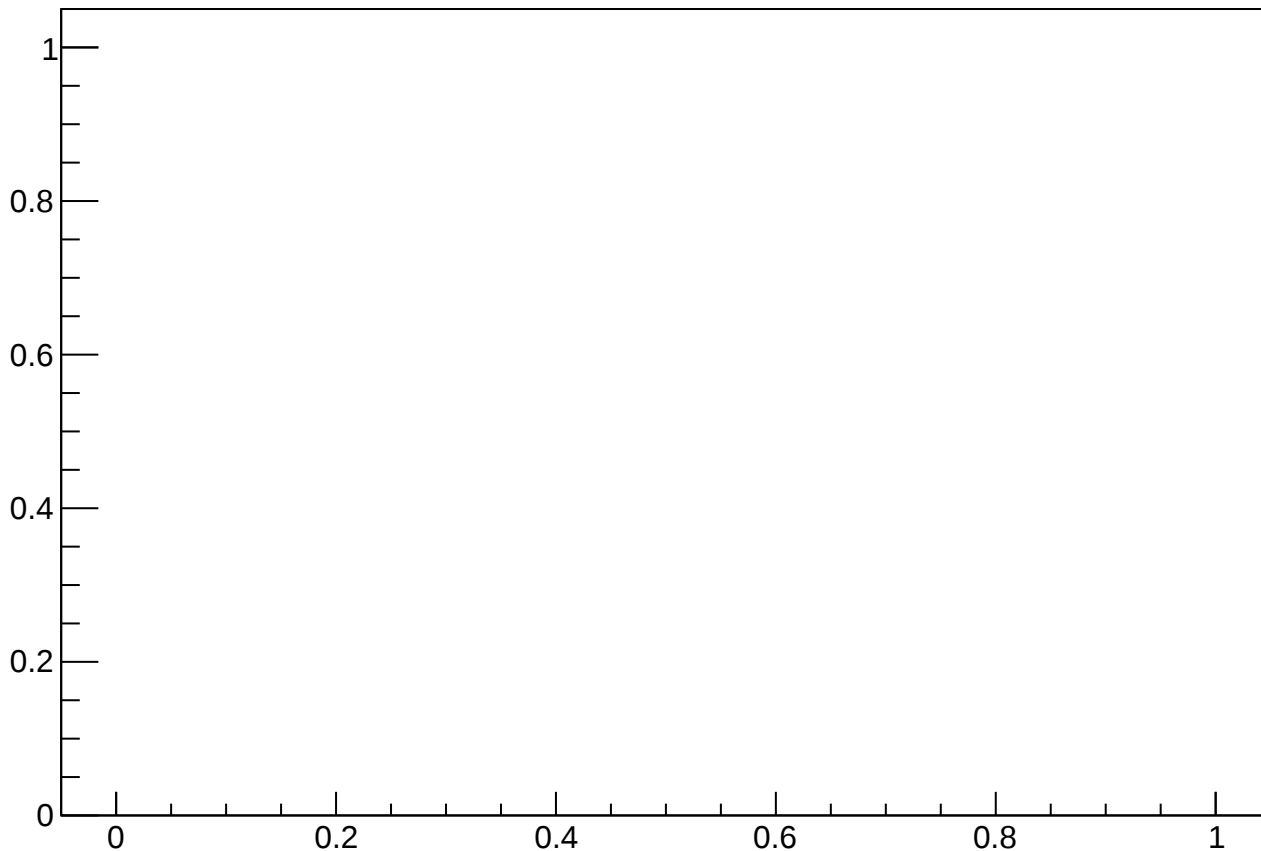
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

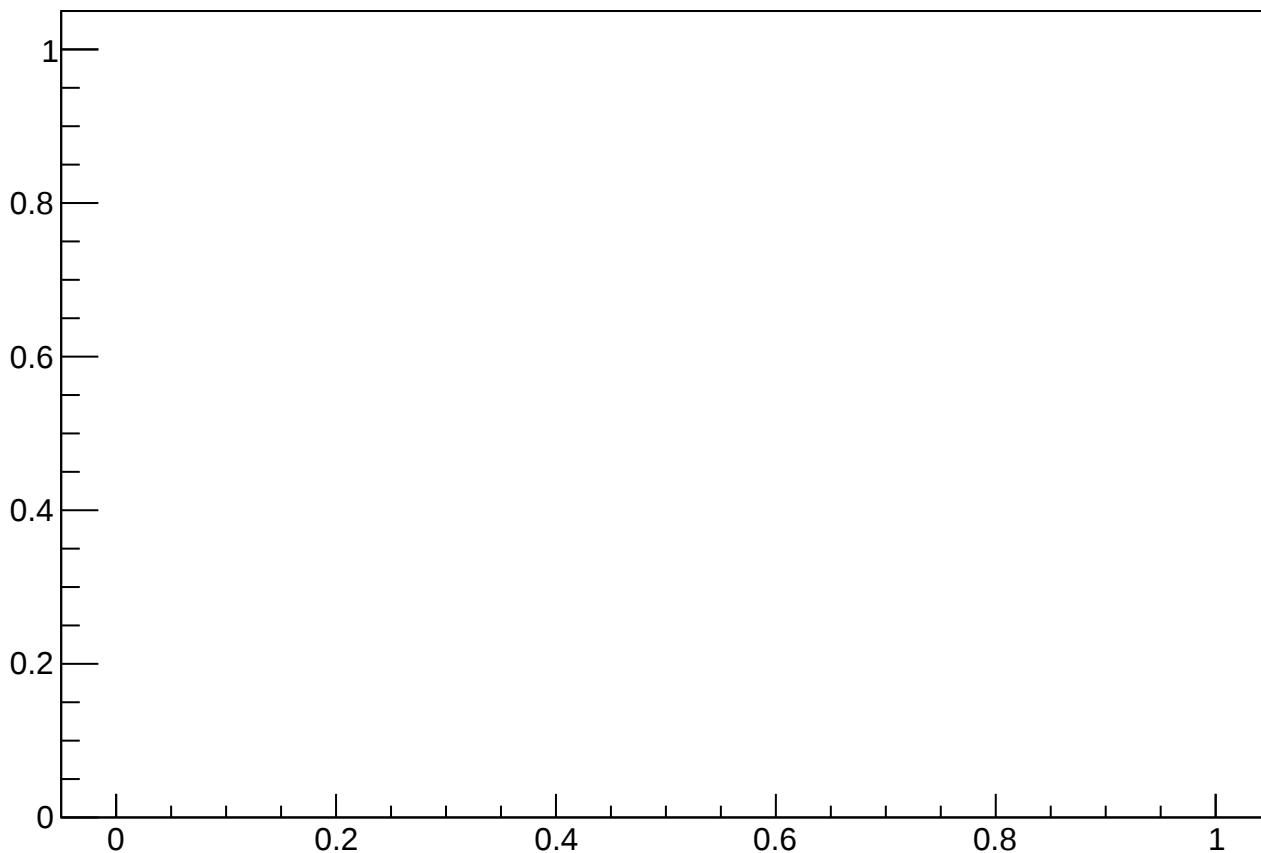
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam1\_coil3\_mean vs Slug, Sign Corrected



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

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

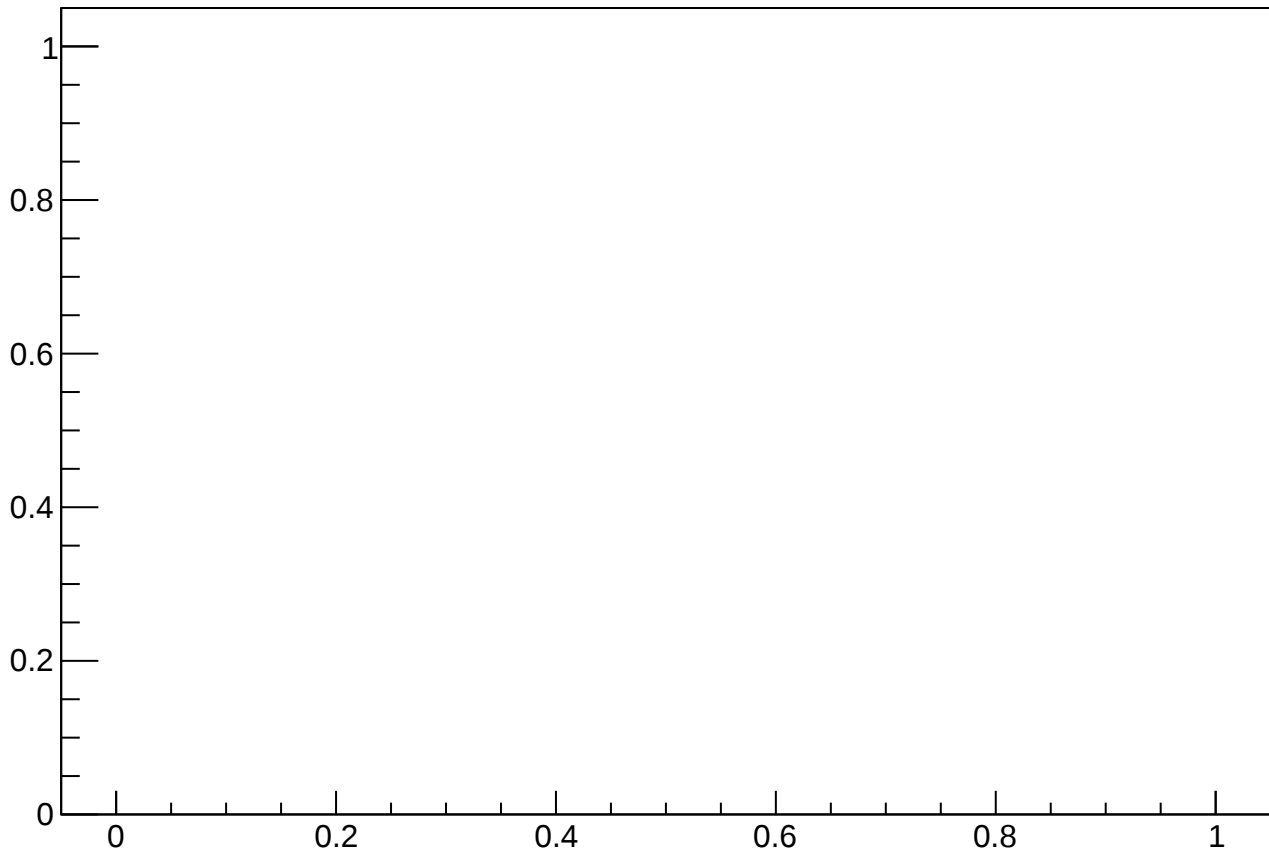
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam1\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

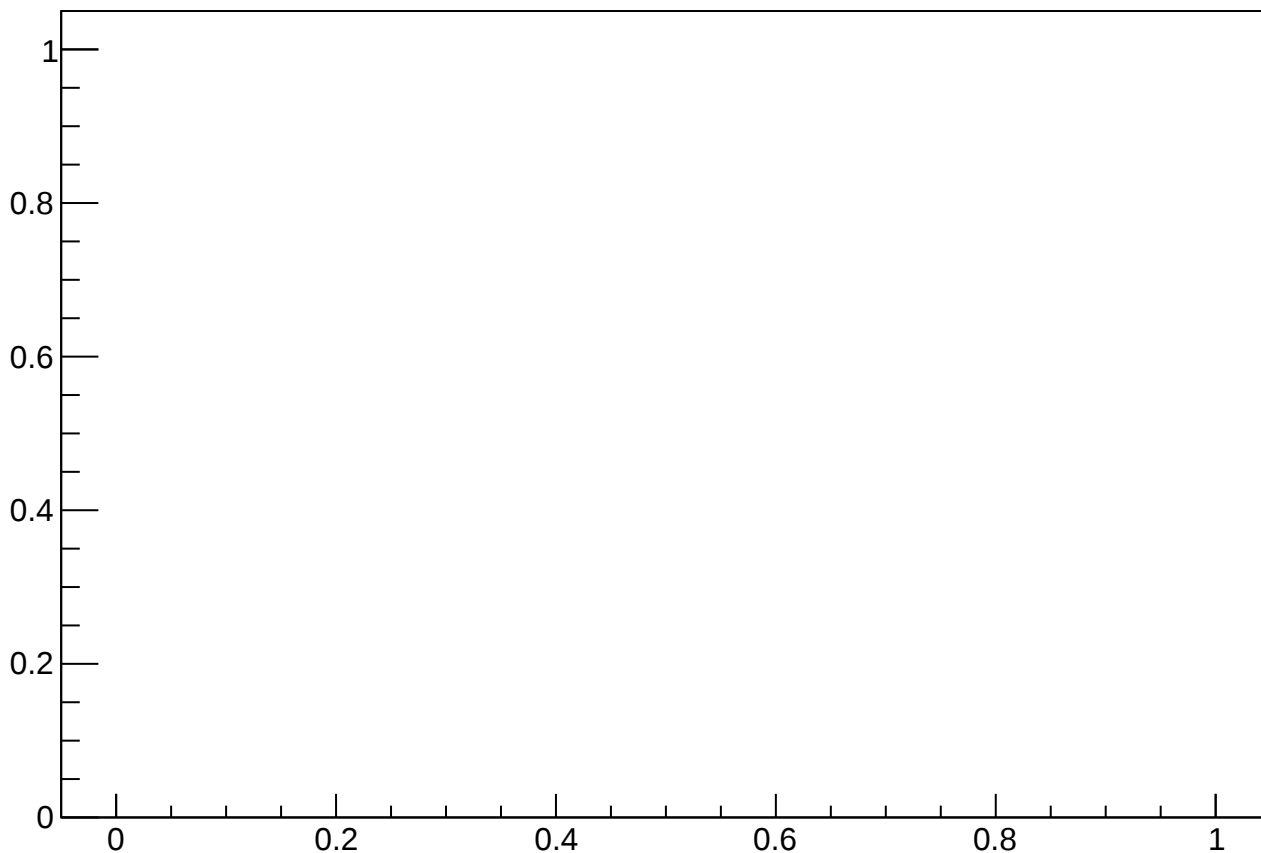
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam1\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

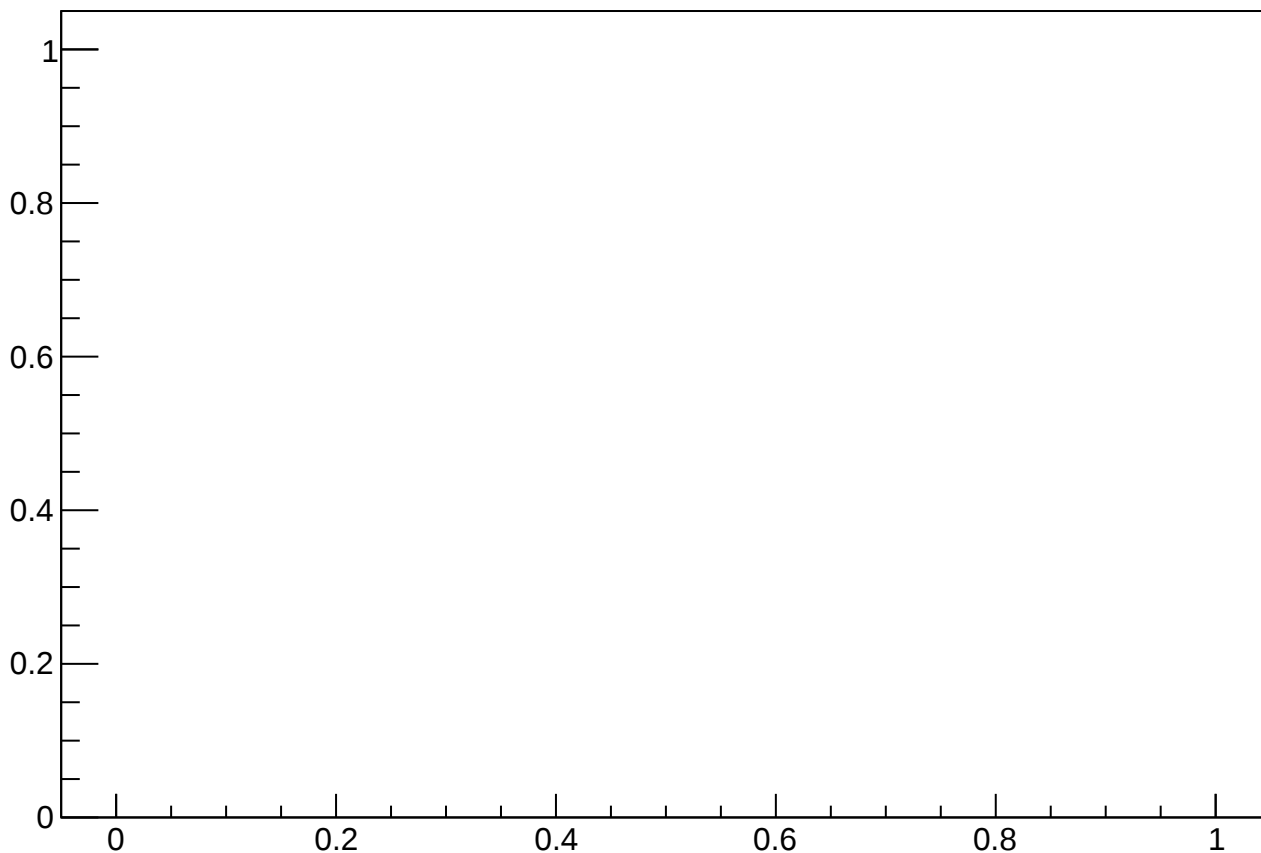
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam2\_coil3\_mean vs Slug, Sign Corrected



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

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

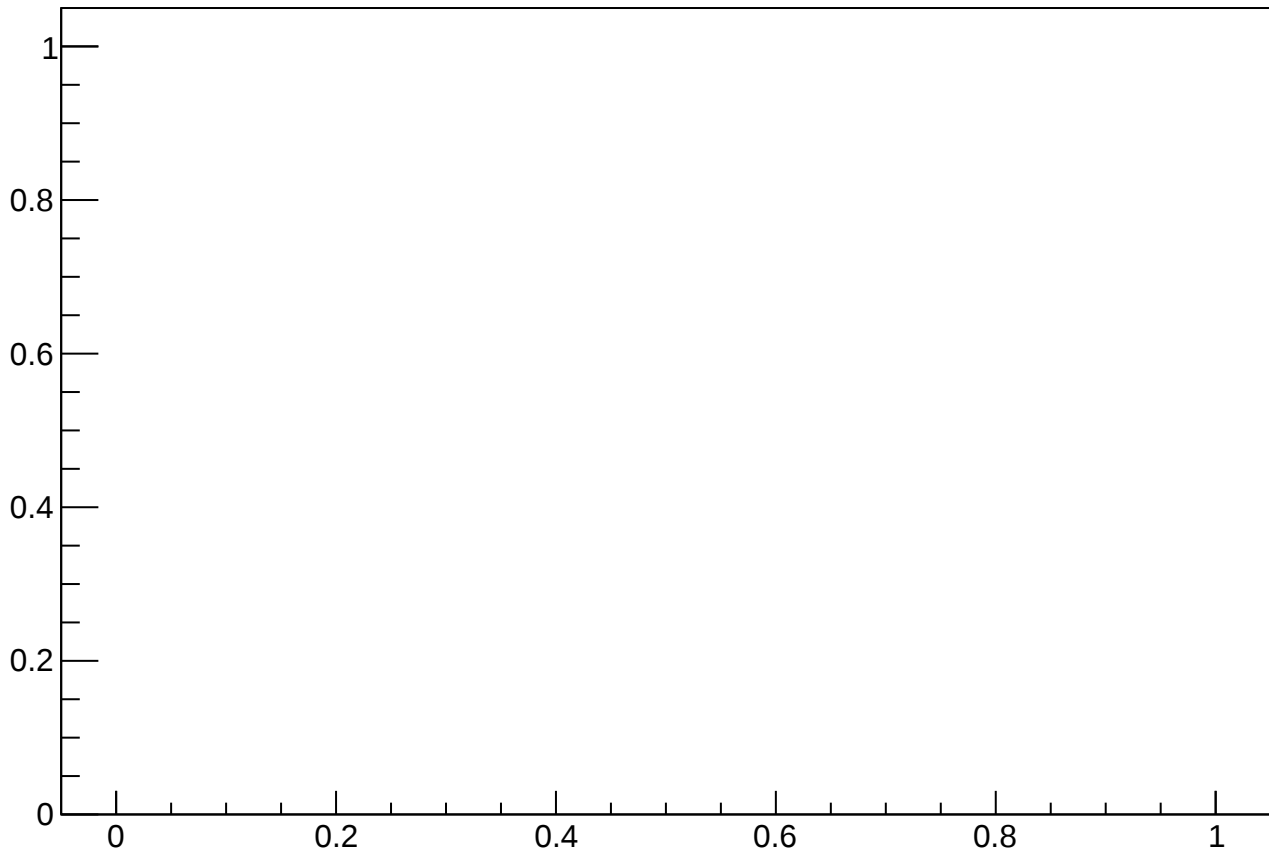
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam2\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

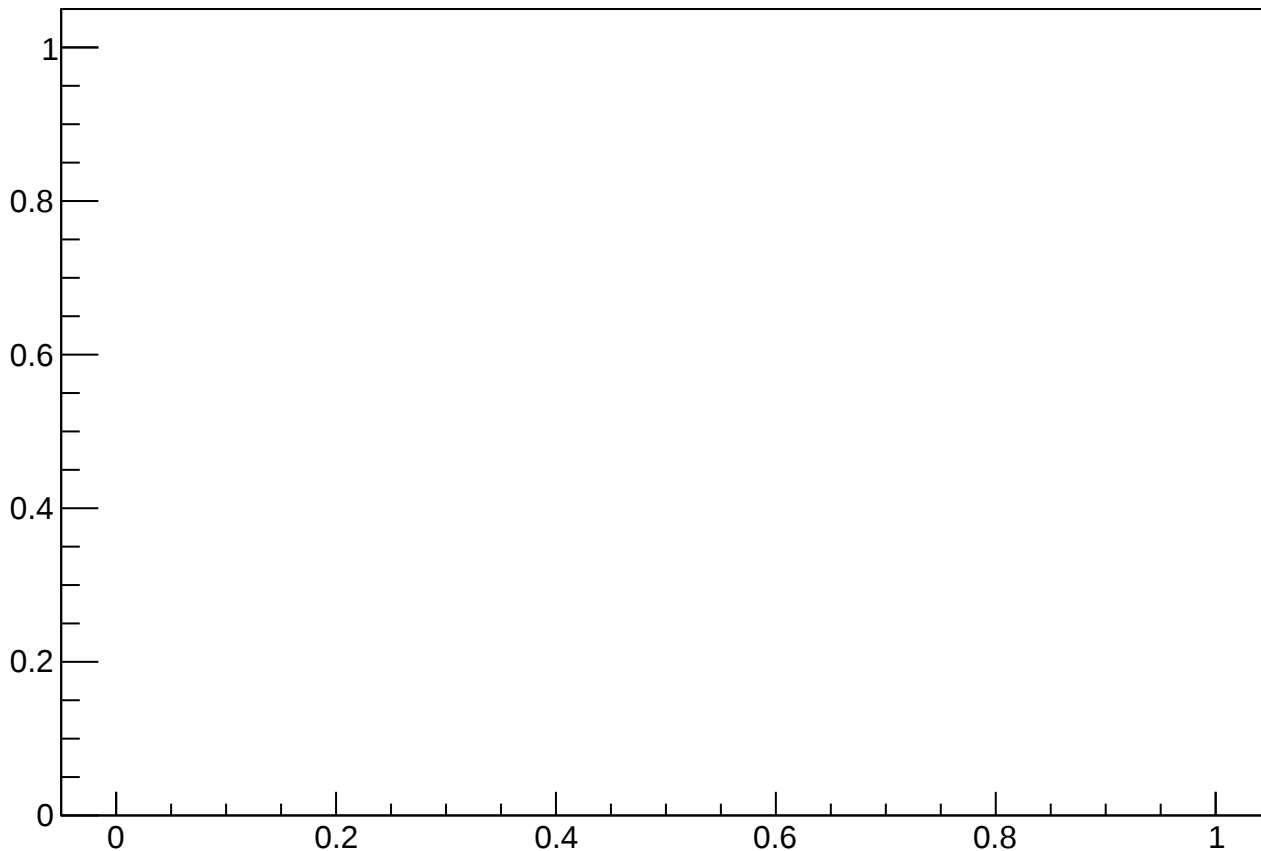
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam2\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

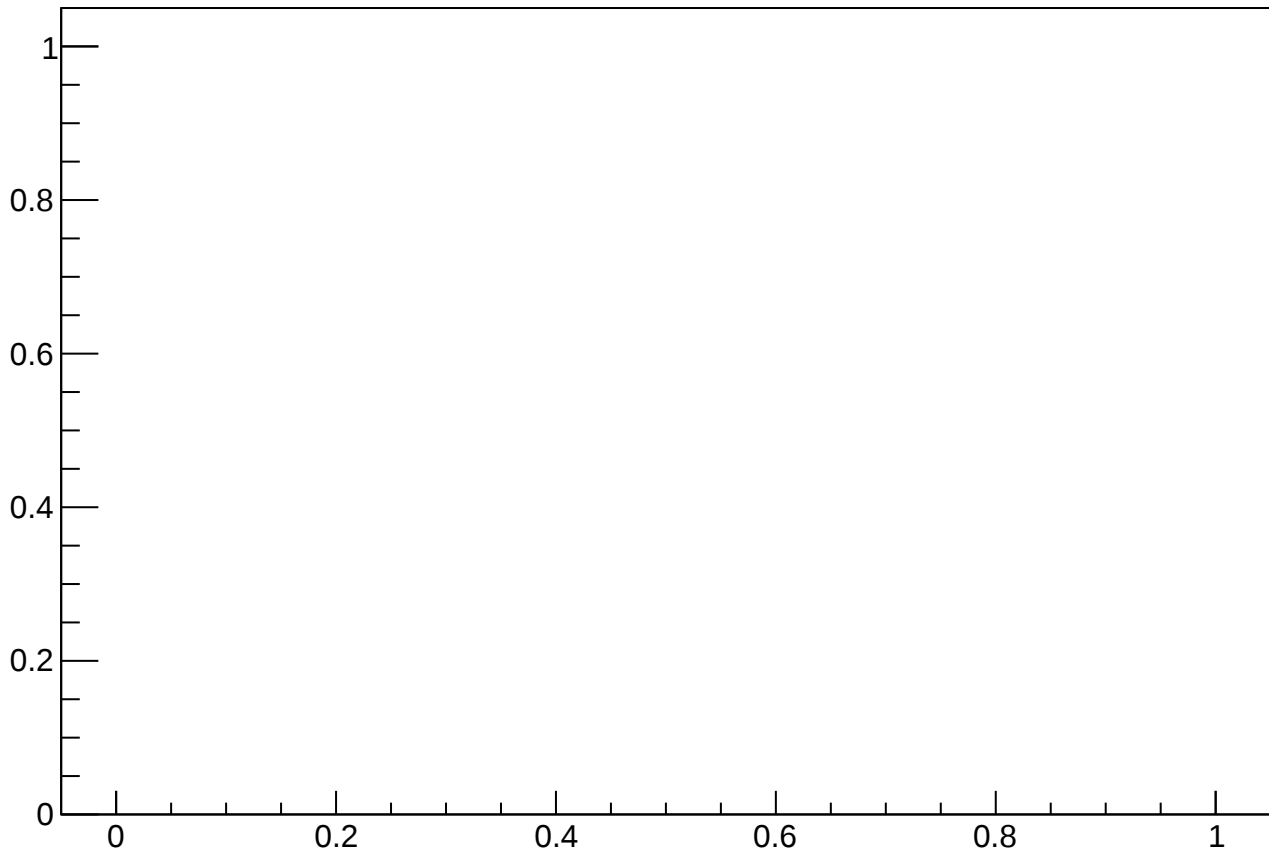
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil3\_mean vs Slug, Sign Corrected



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

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

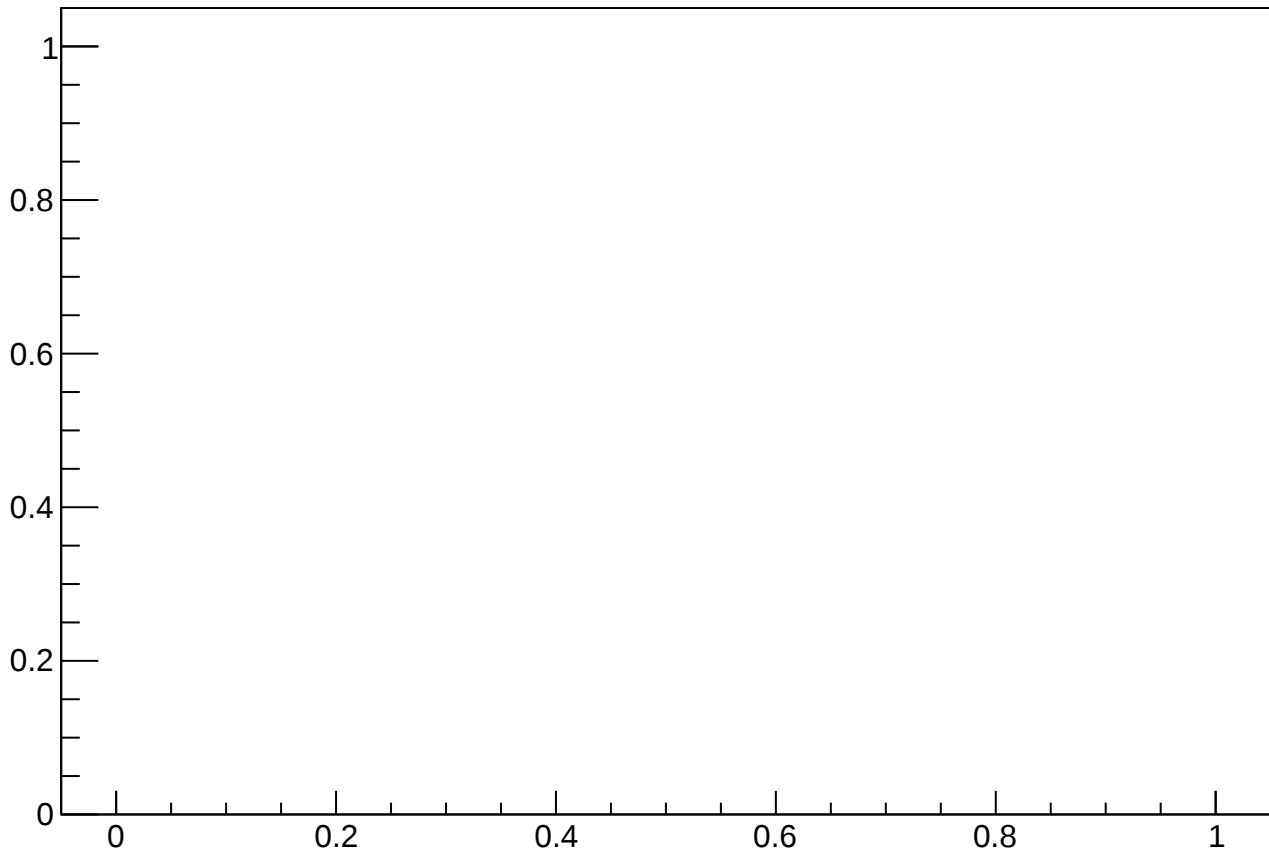
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_sam3\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

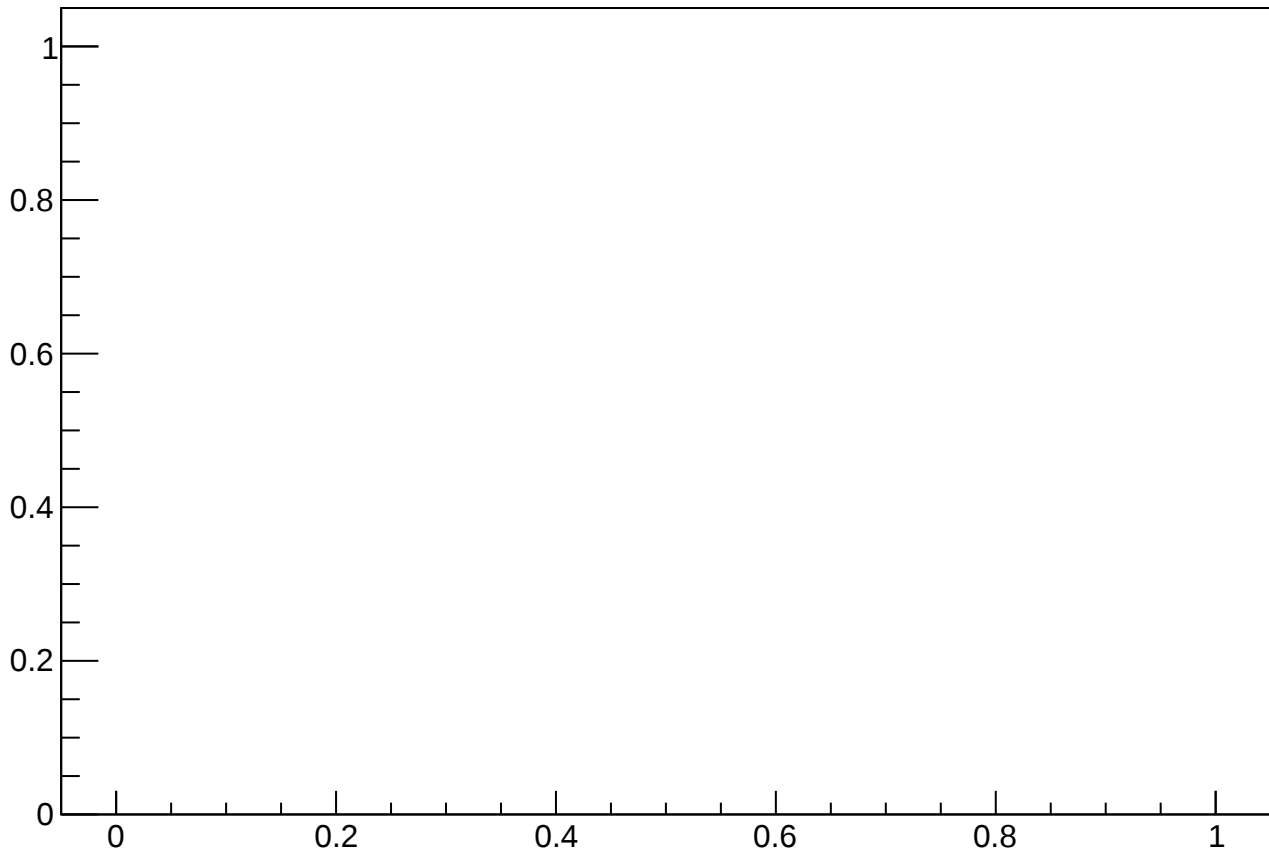
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam3\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

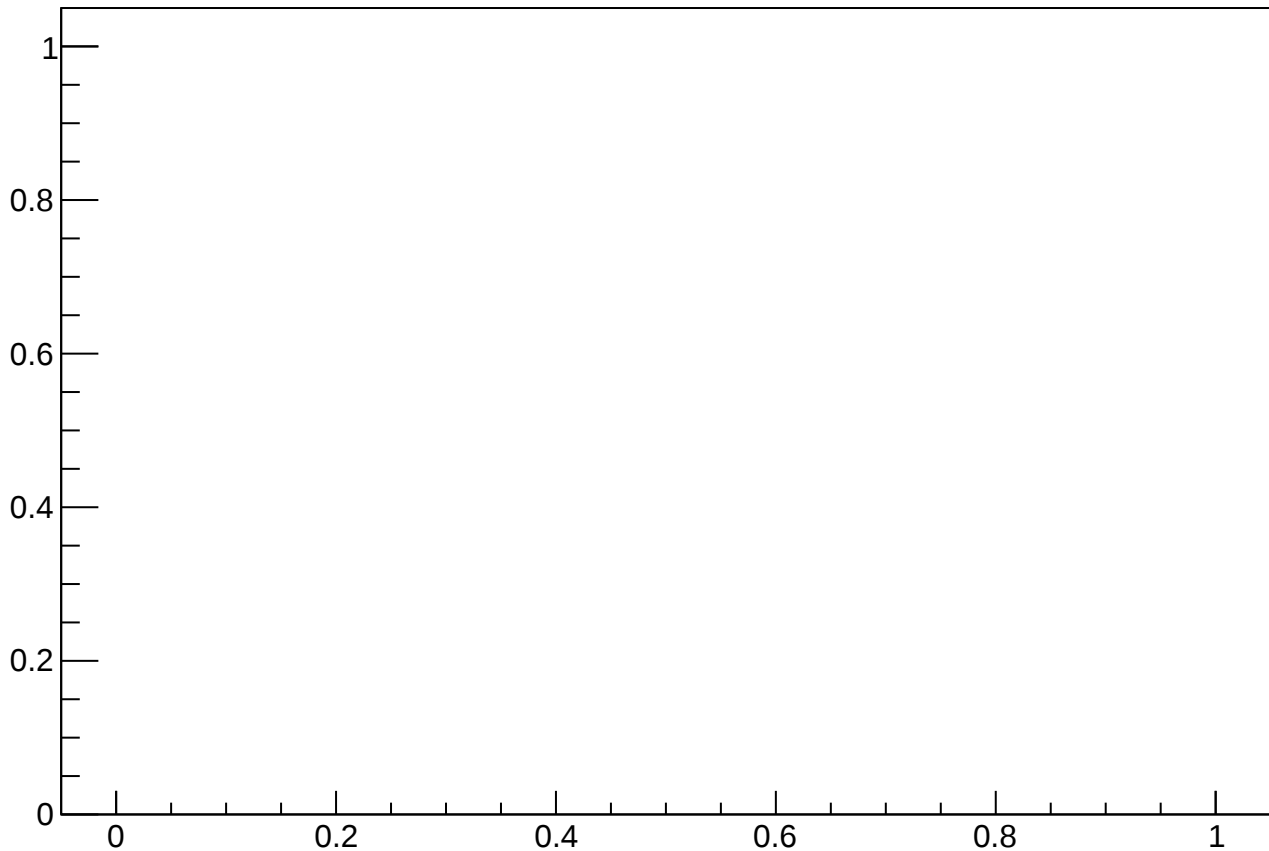
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam4\_coil3\_mean vs Slug, Sign Corrected



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

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

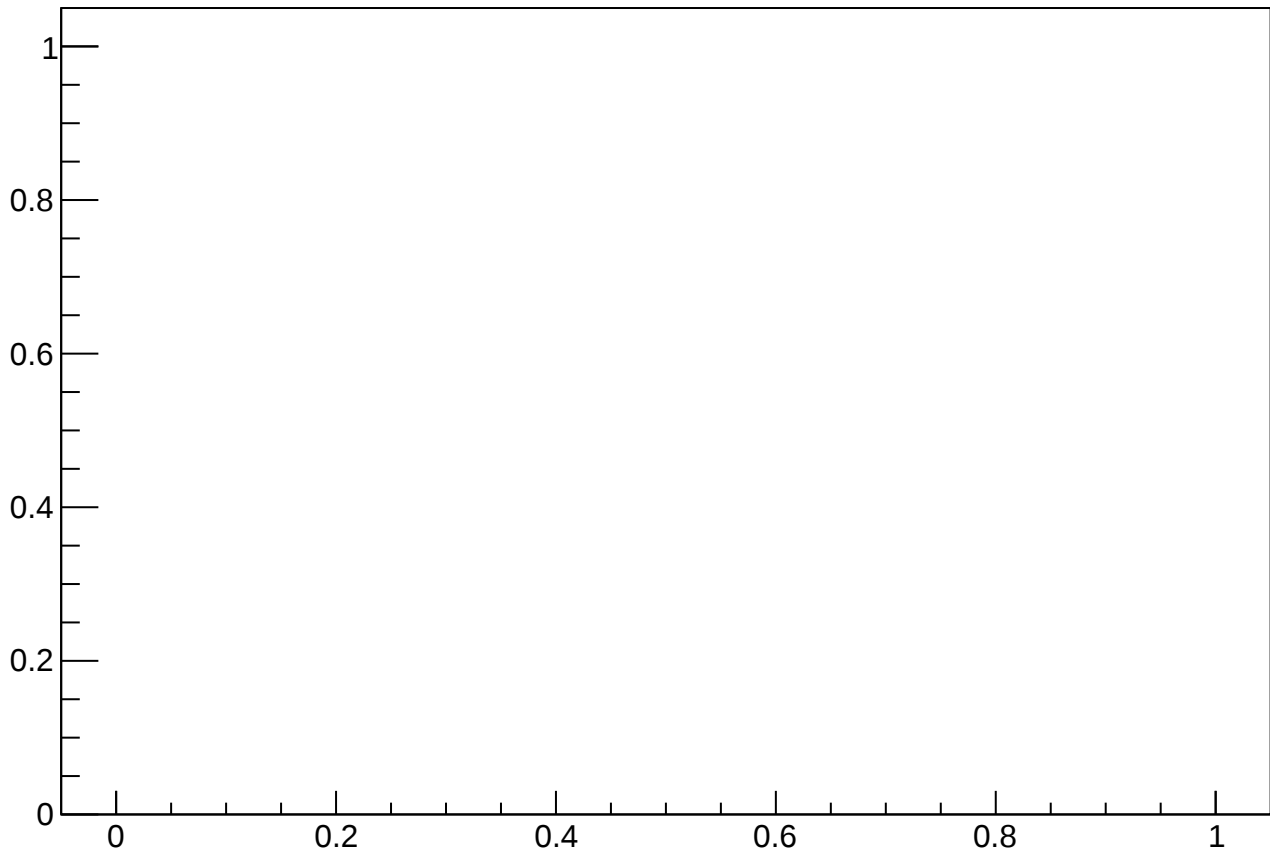
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam4\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

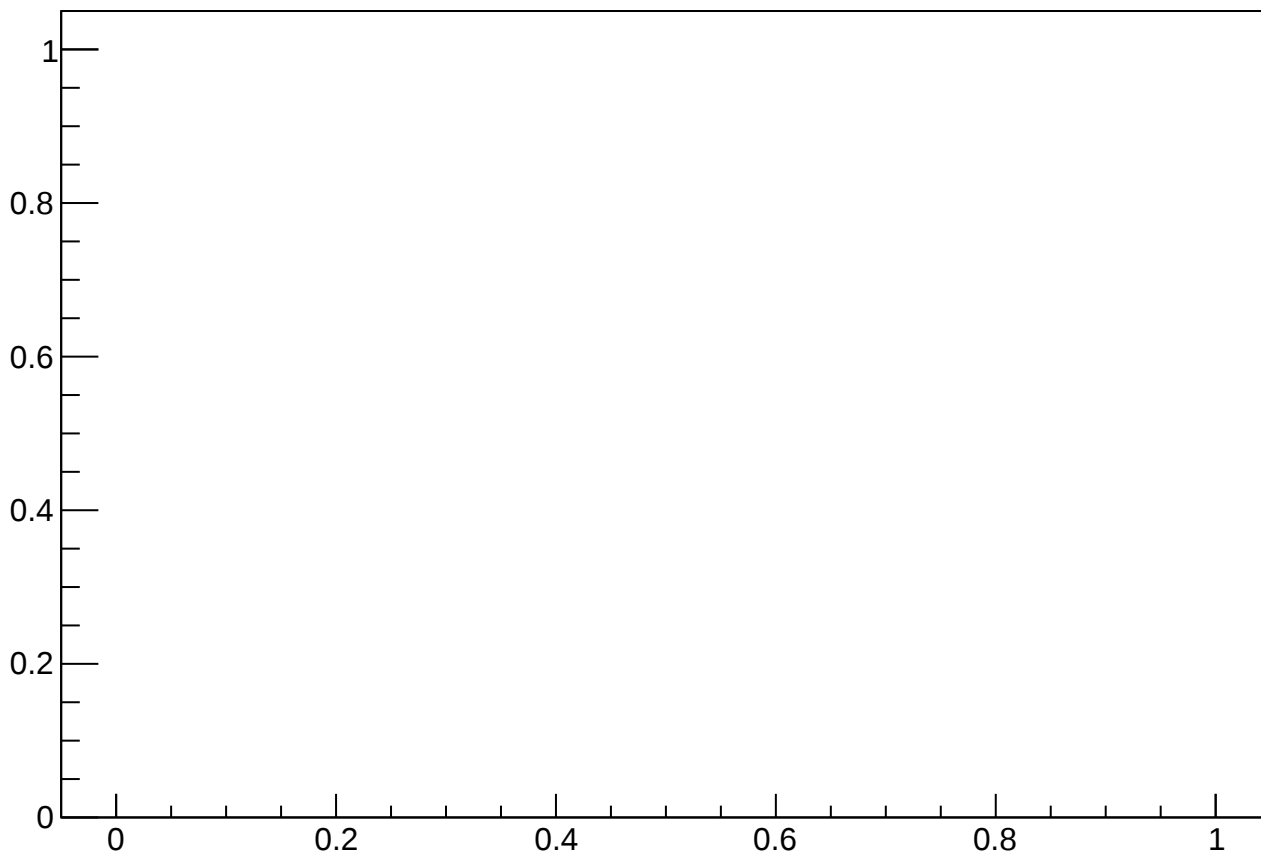
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam4\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

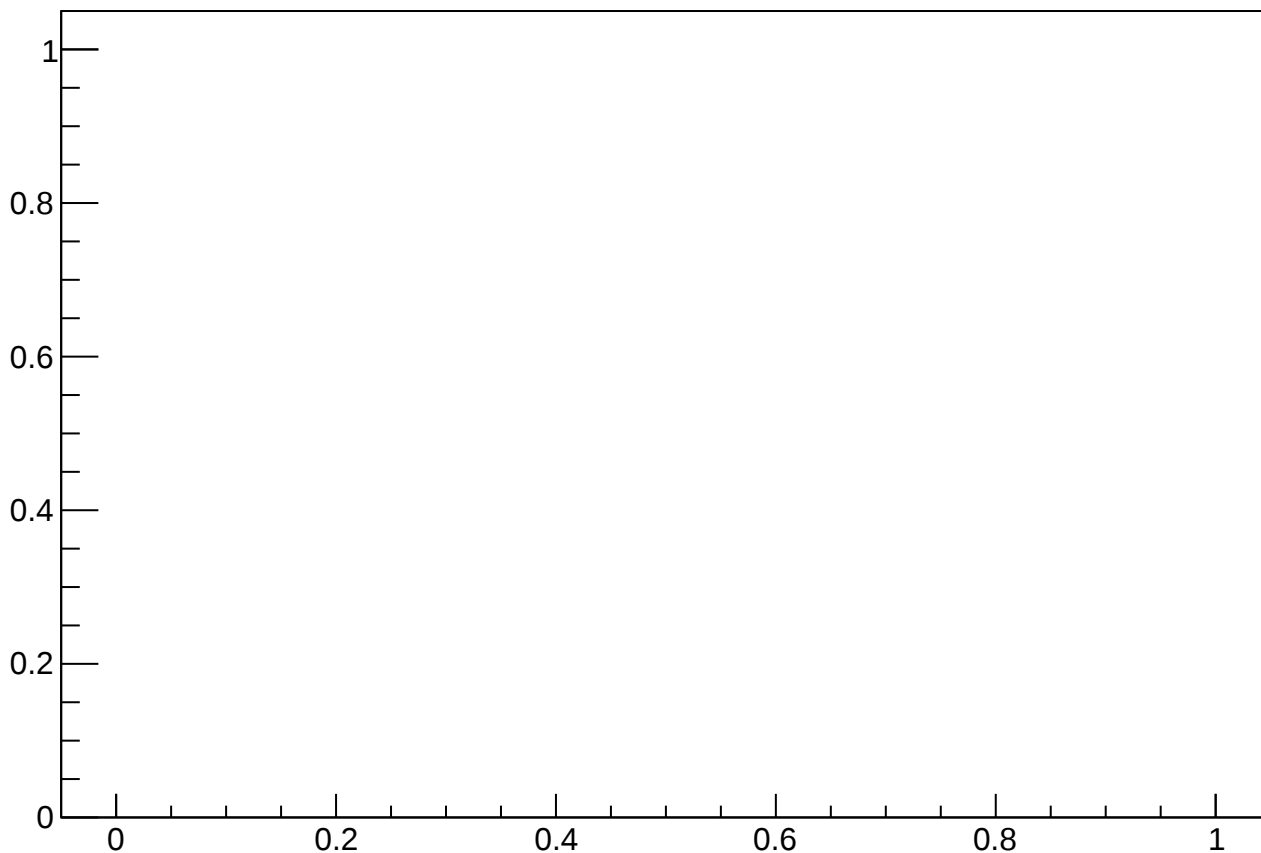
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam5\_coil3\_mean vs Slug, Sign Corrected



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

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

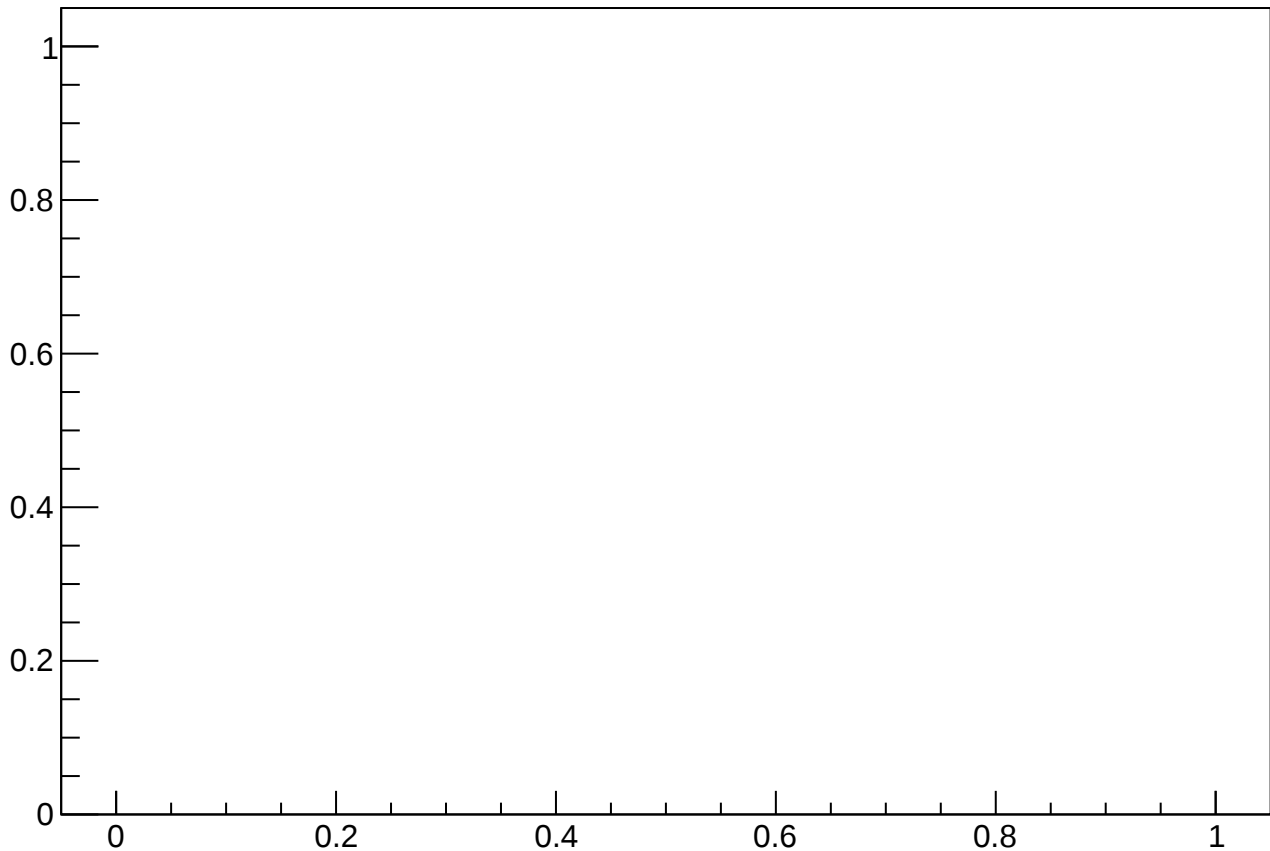
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam5\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

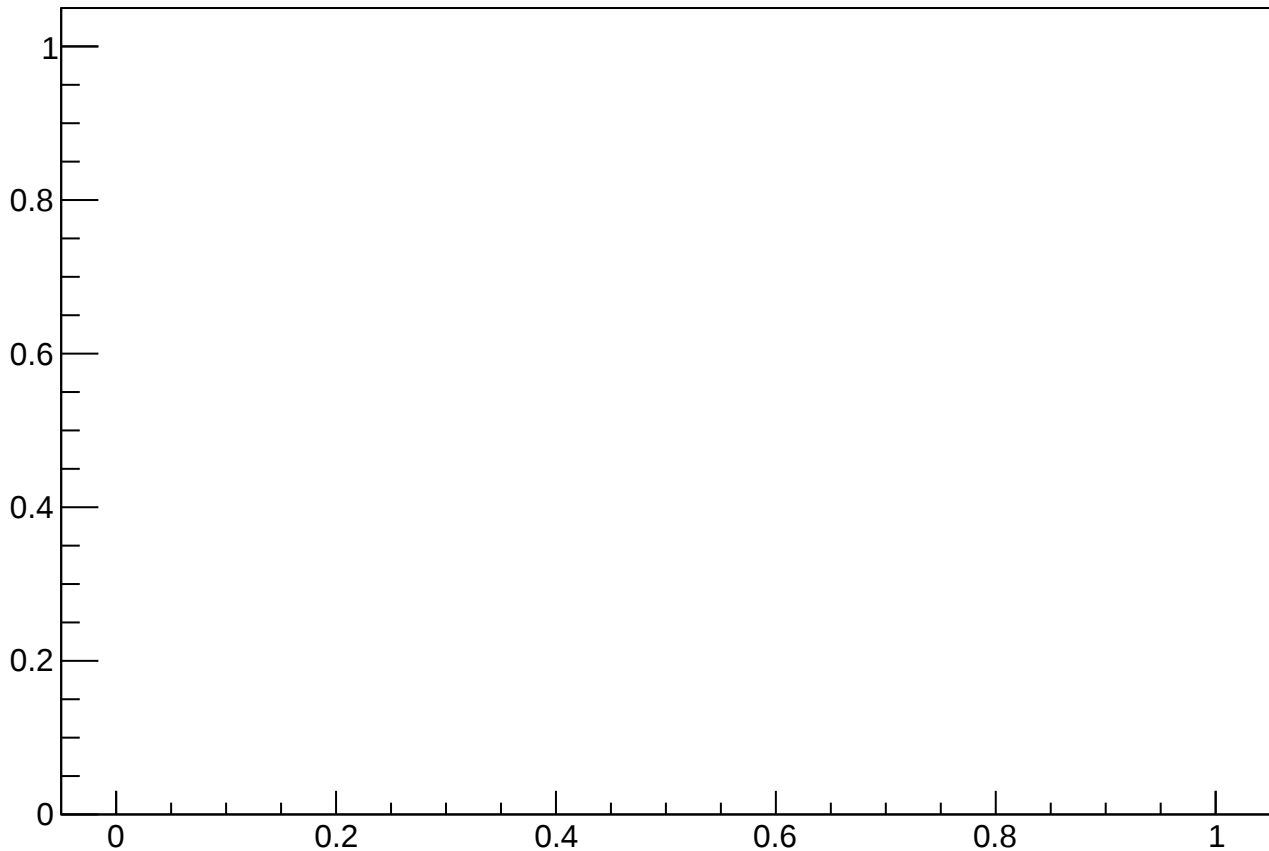
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam5\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

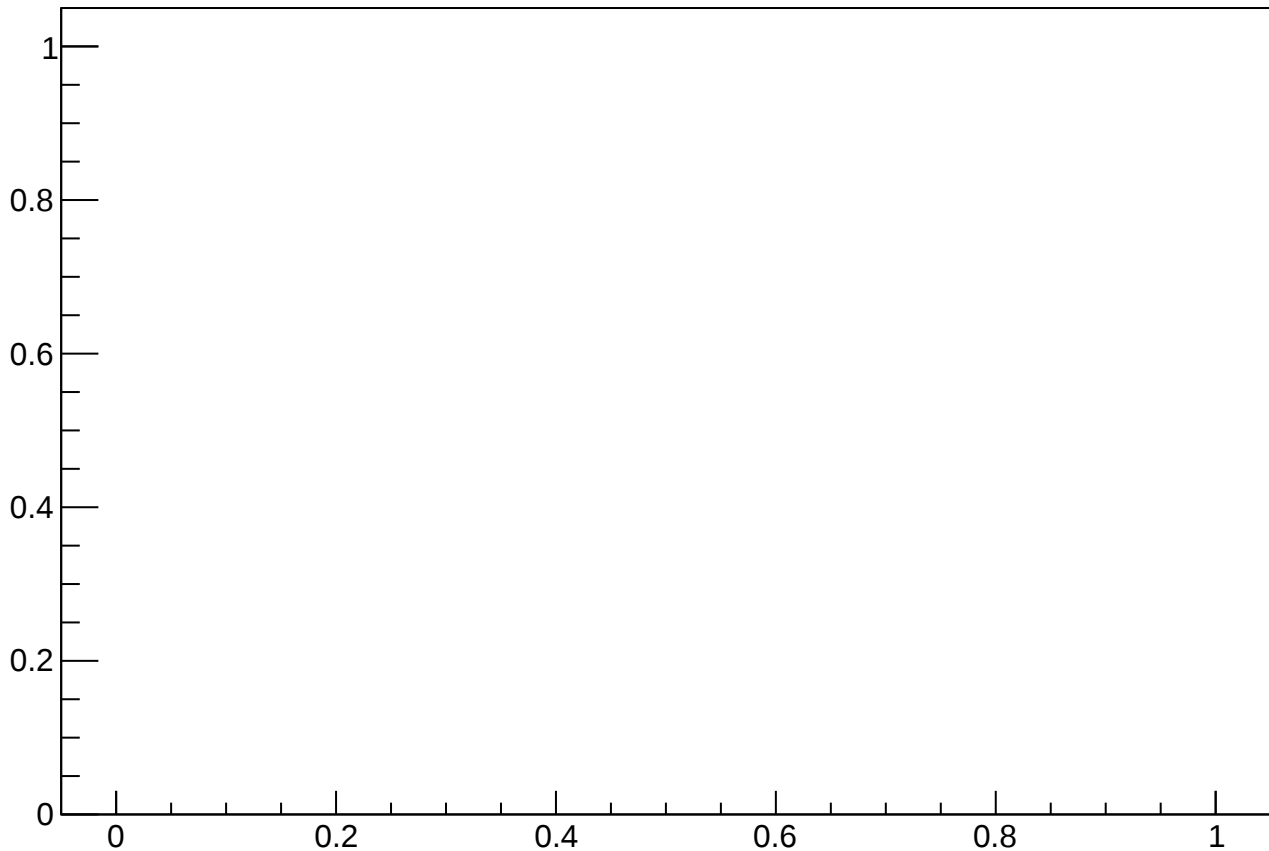
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam6\_coil3\_mean vs Slug, Sign Corrected



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

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

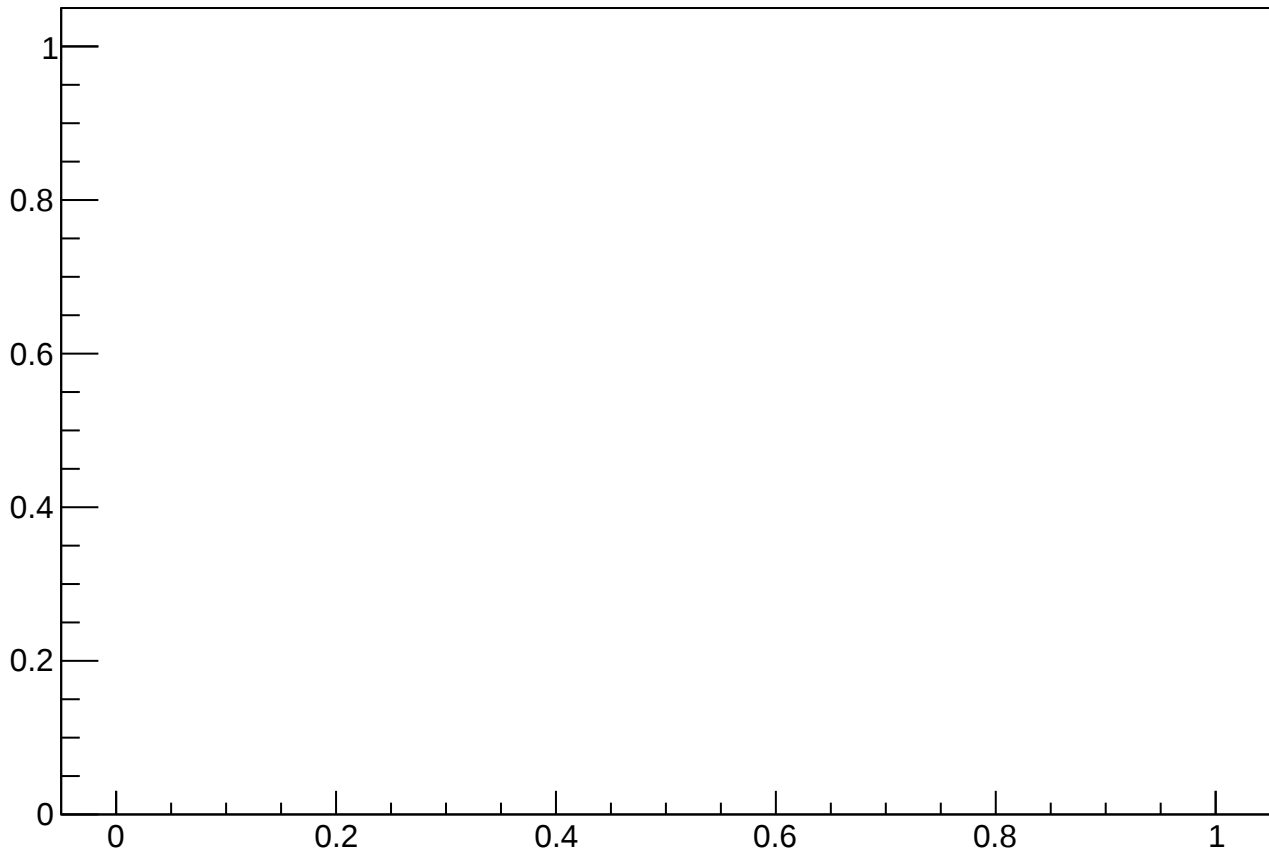
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam6\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

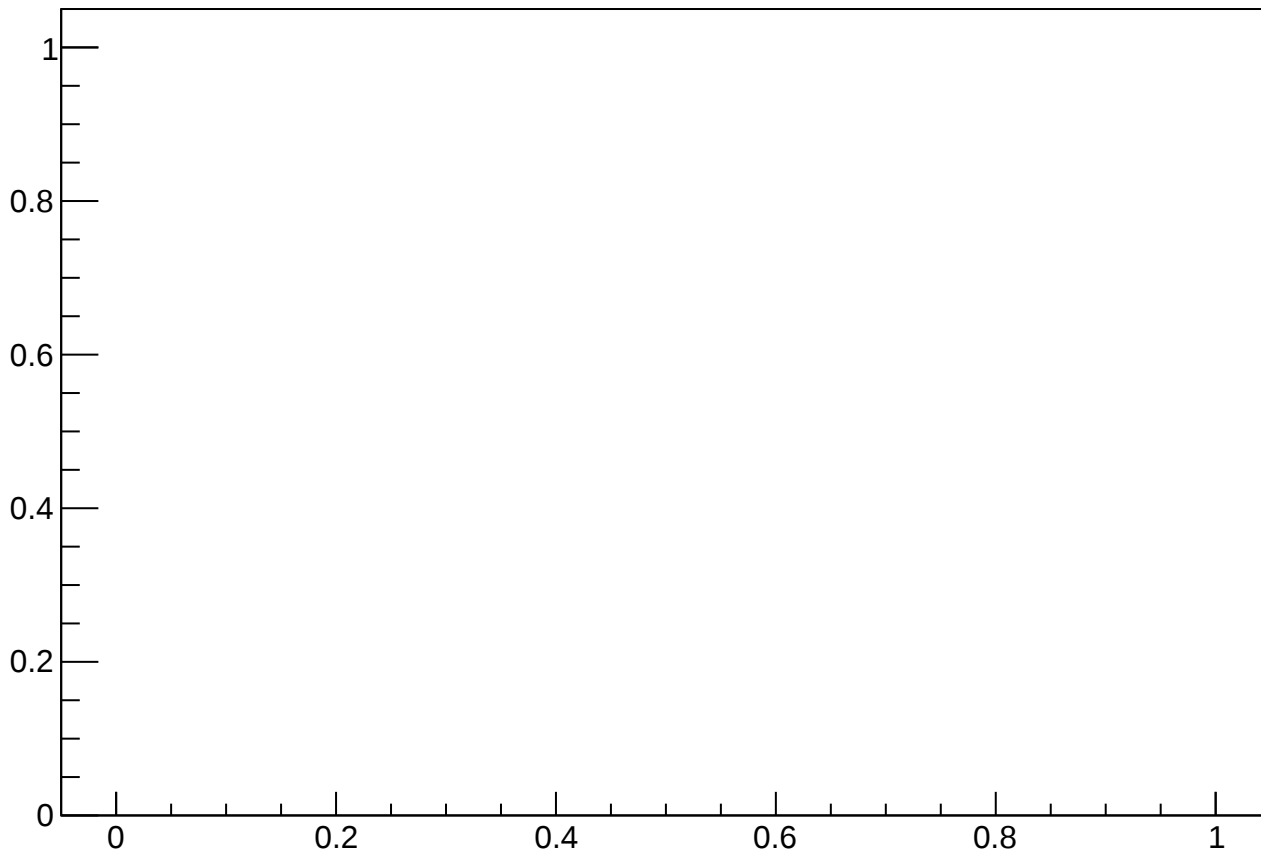
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam6\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

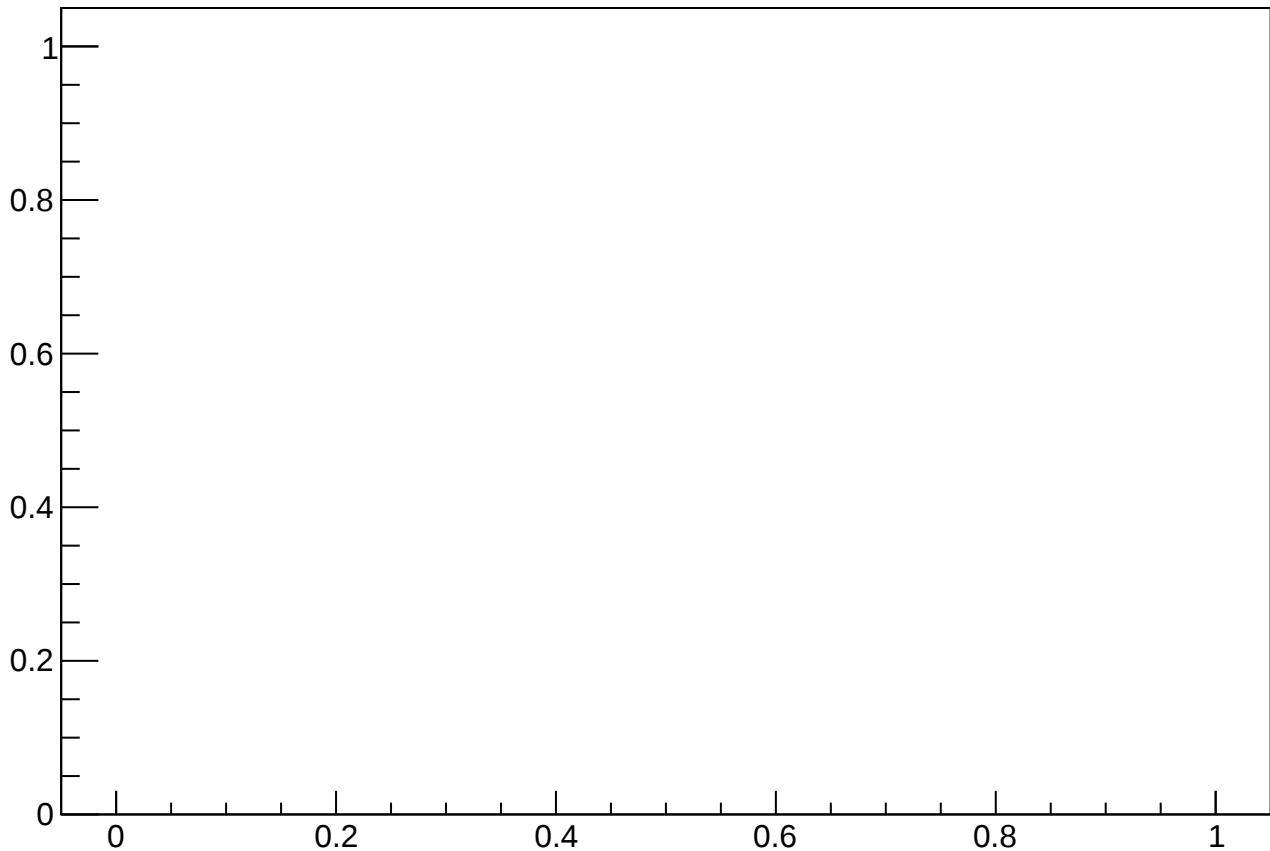
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam7\_coil3\_mean vs Slug, Sign Corrected



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

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

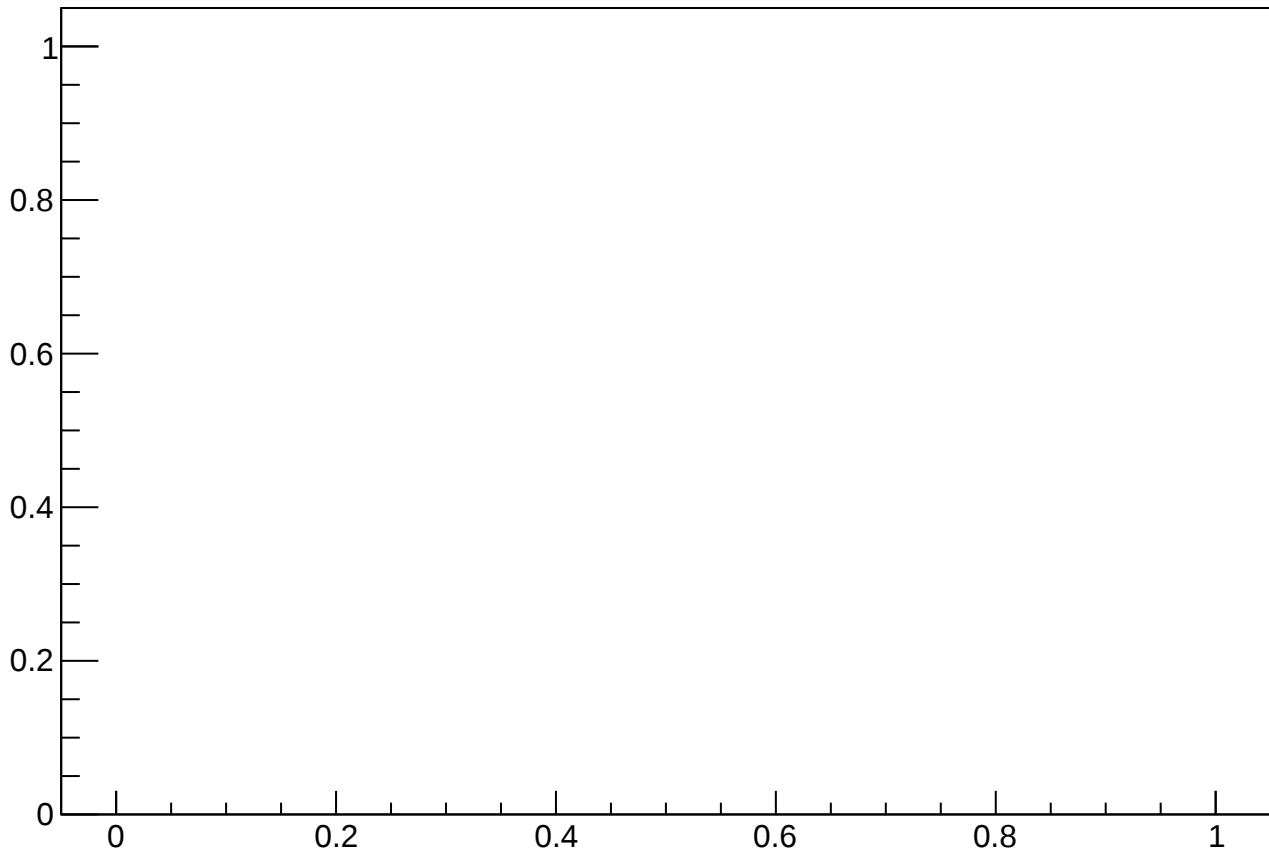
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_sam7\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

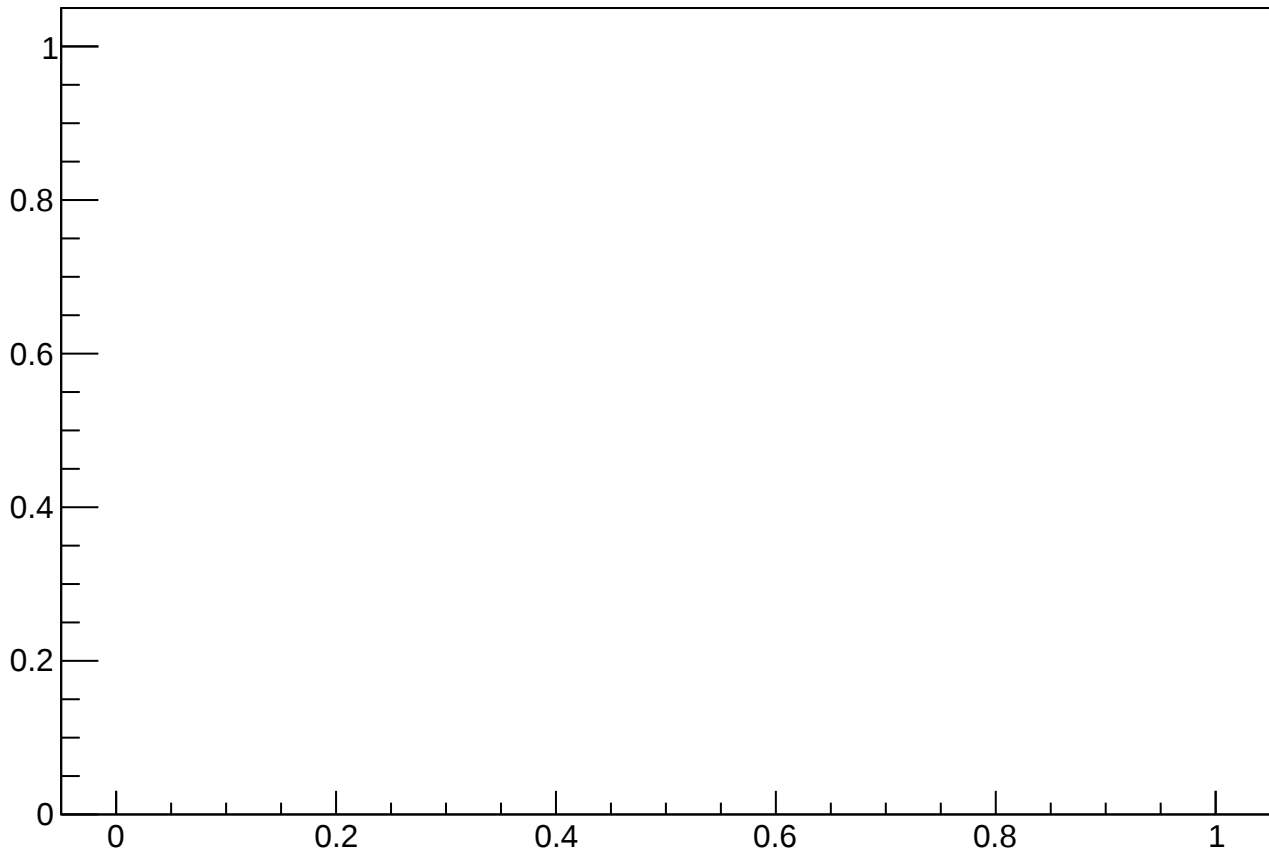
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam7\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

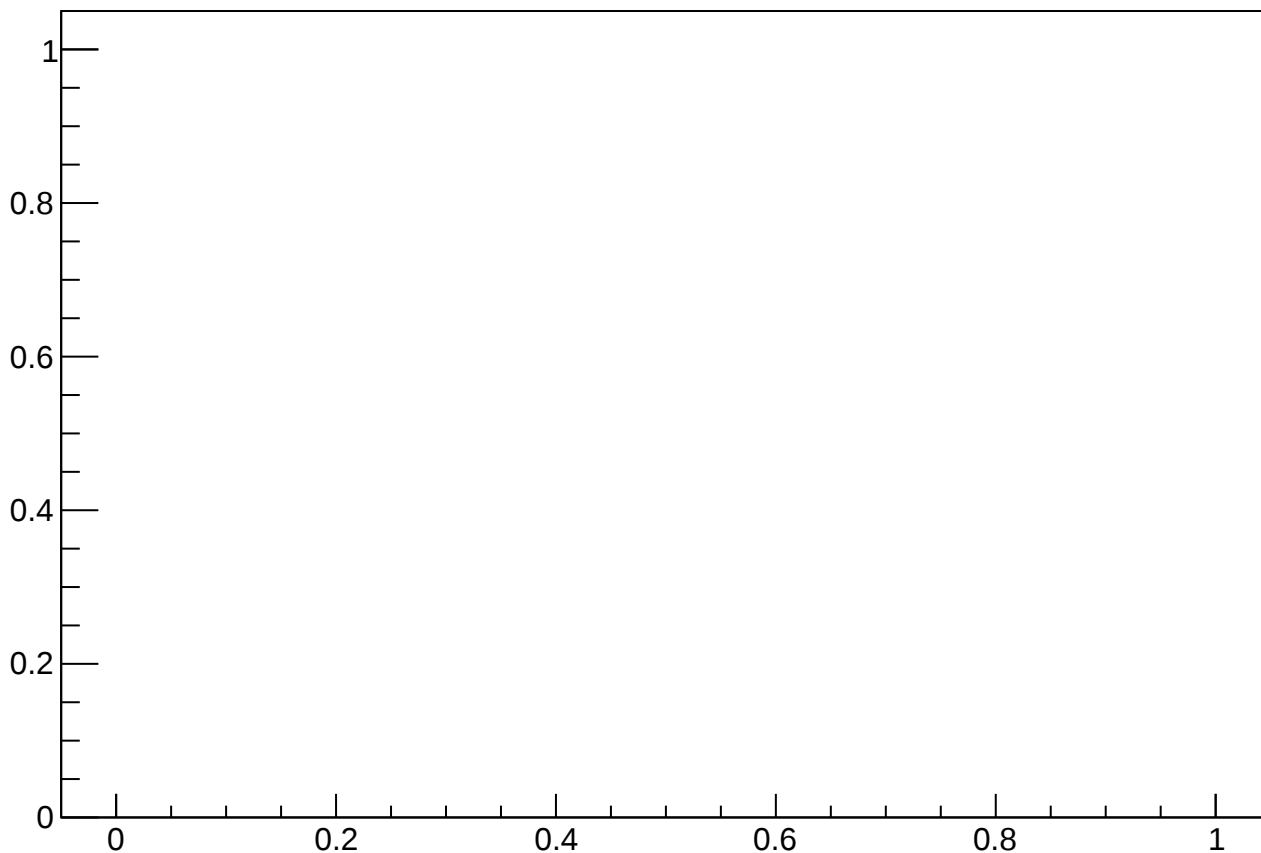
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_sam8\_coil3\_mean vs Slug, Sign Corrected



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

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

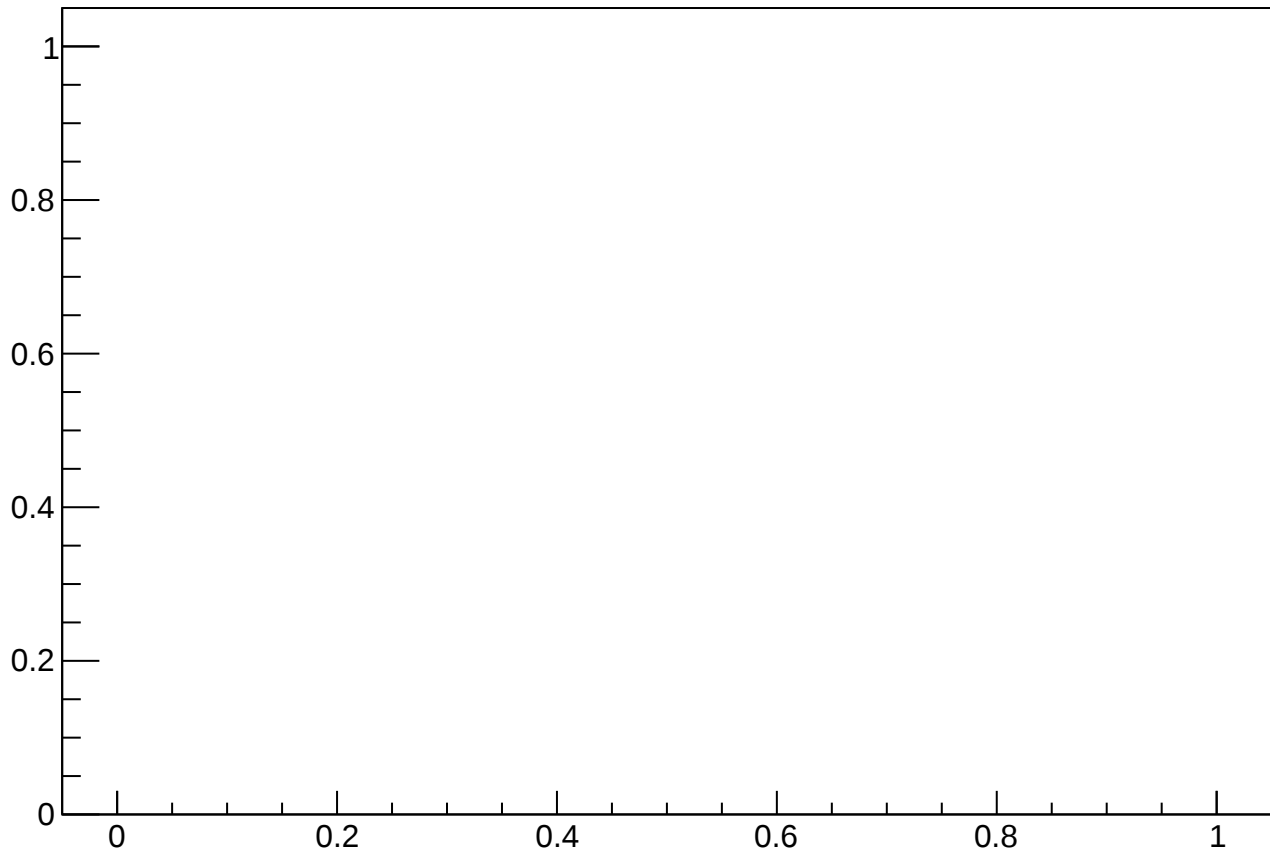
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

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

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

dit\_sam8\_coil3\_err\_mean vs Slug, Sign Corrected



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

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

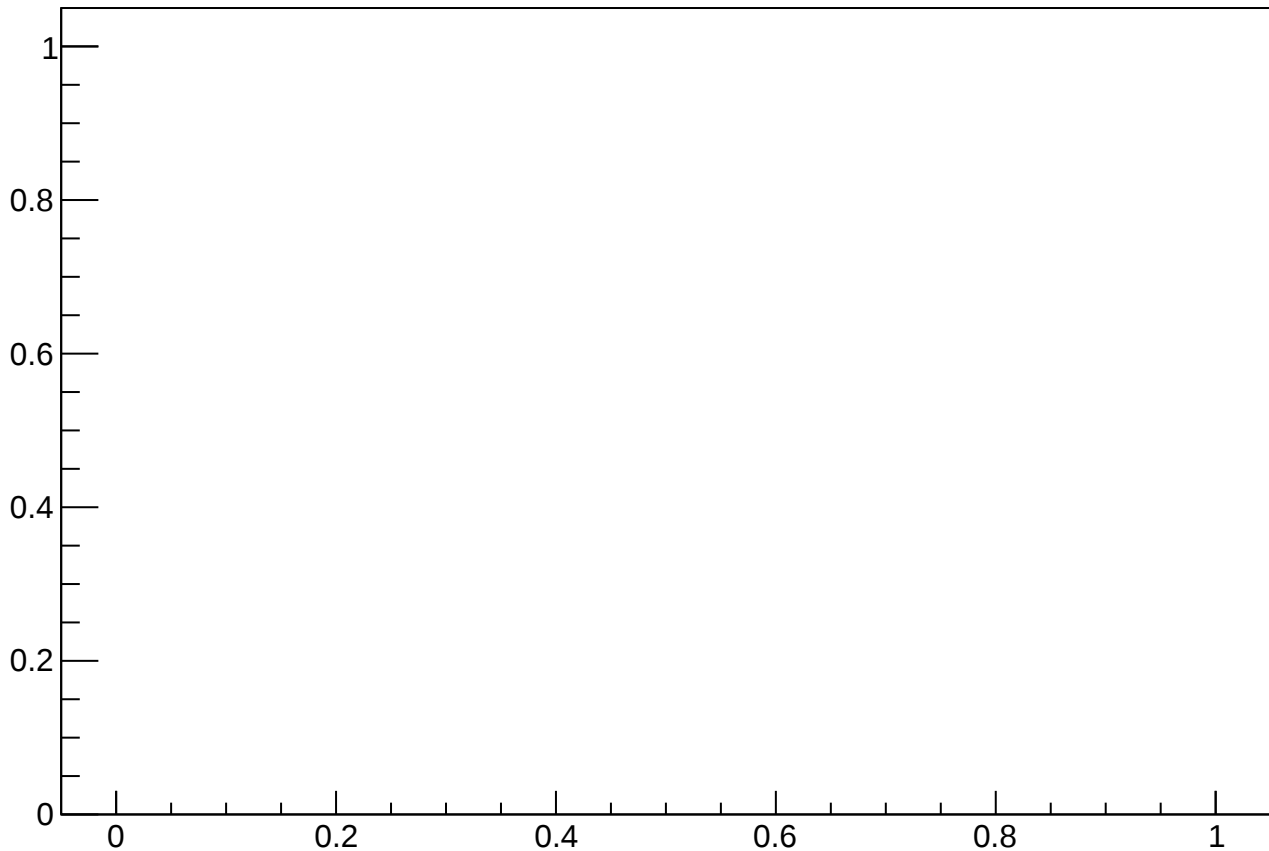
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_sam8\_coil3\_Ndata\_mean vs Slug, Sign Corrected



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

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

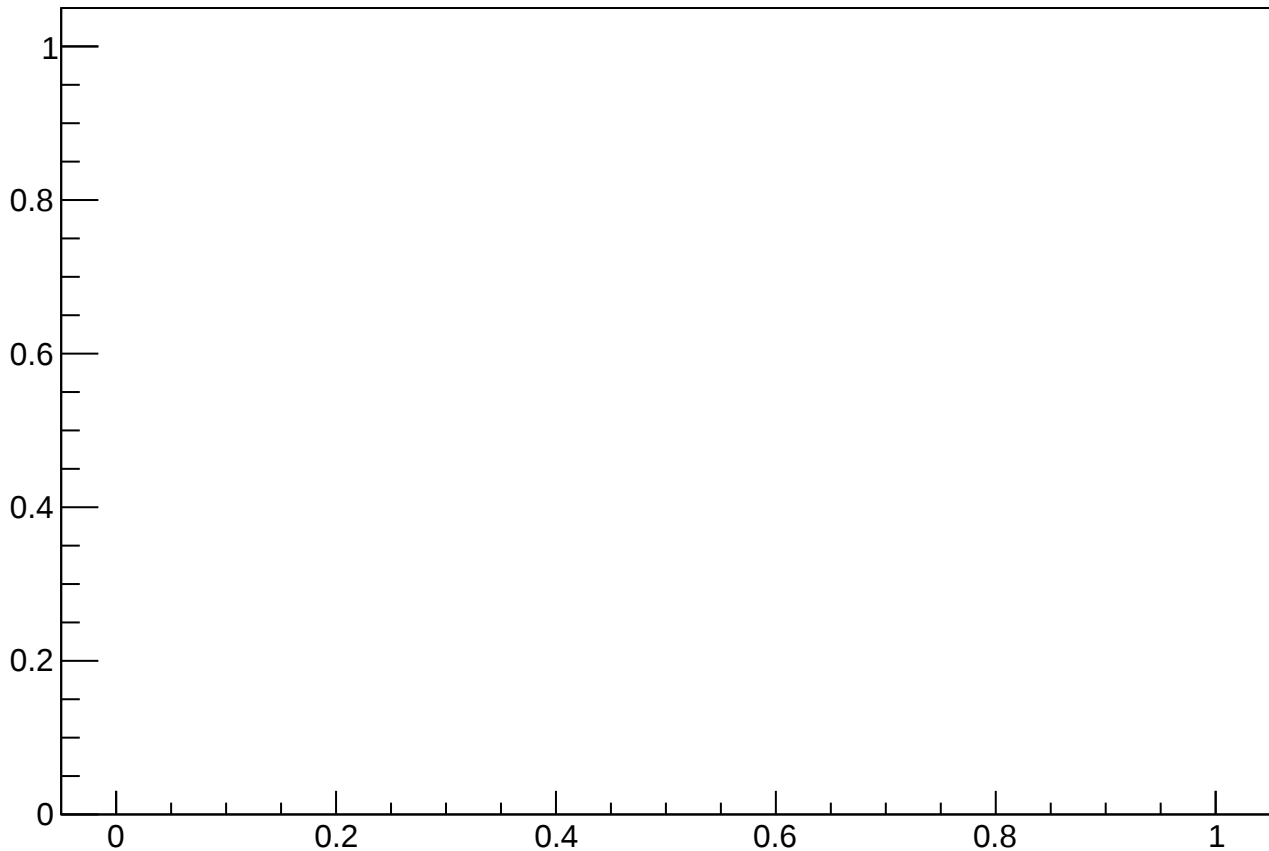
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aX\_coil7\_mean vs Slug, Sign Corrected



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

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

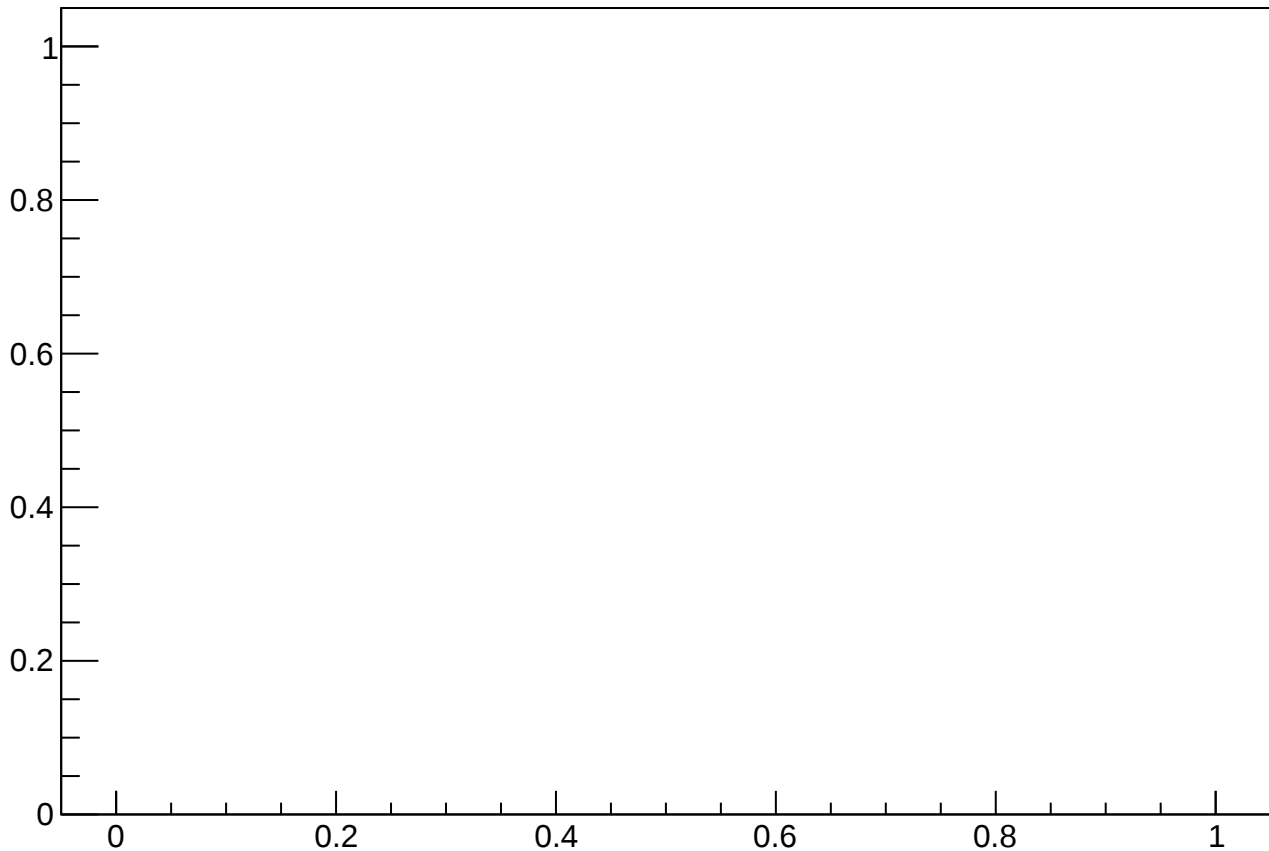
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aX\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

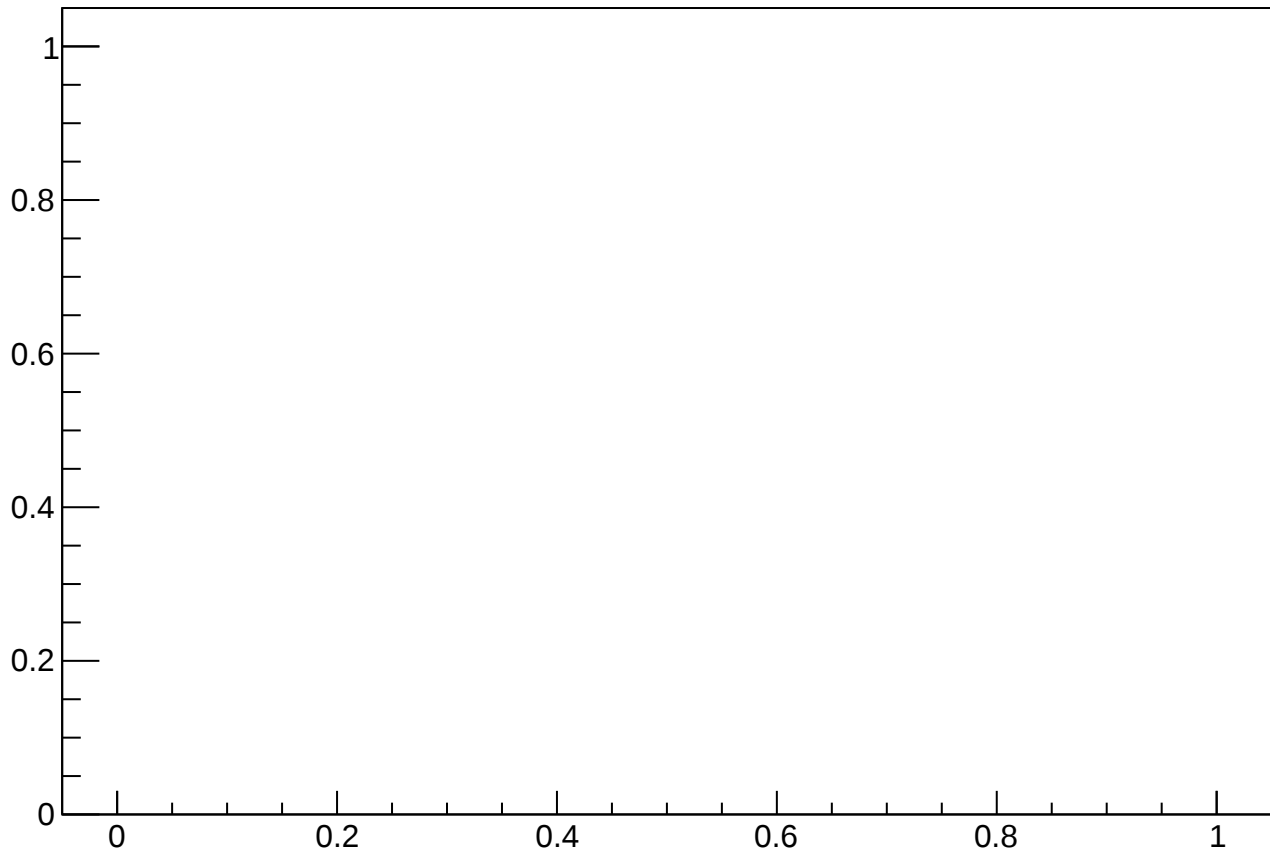
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

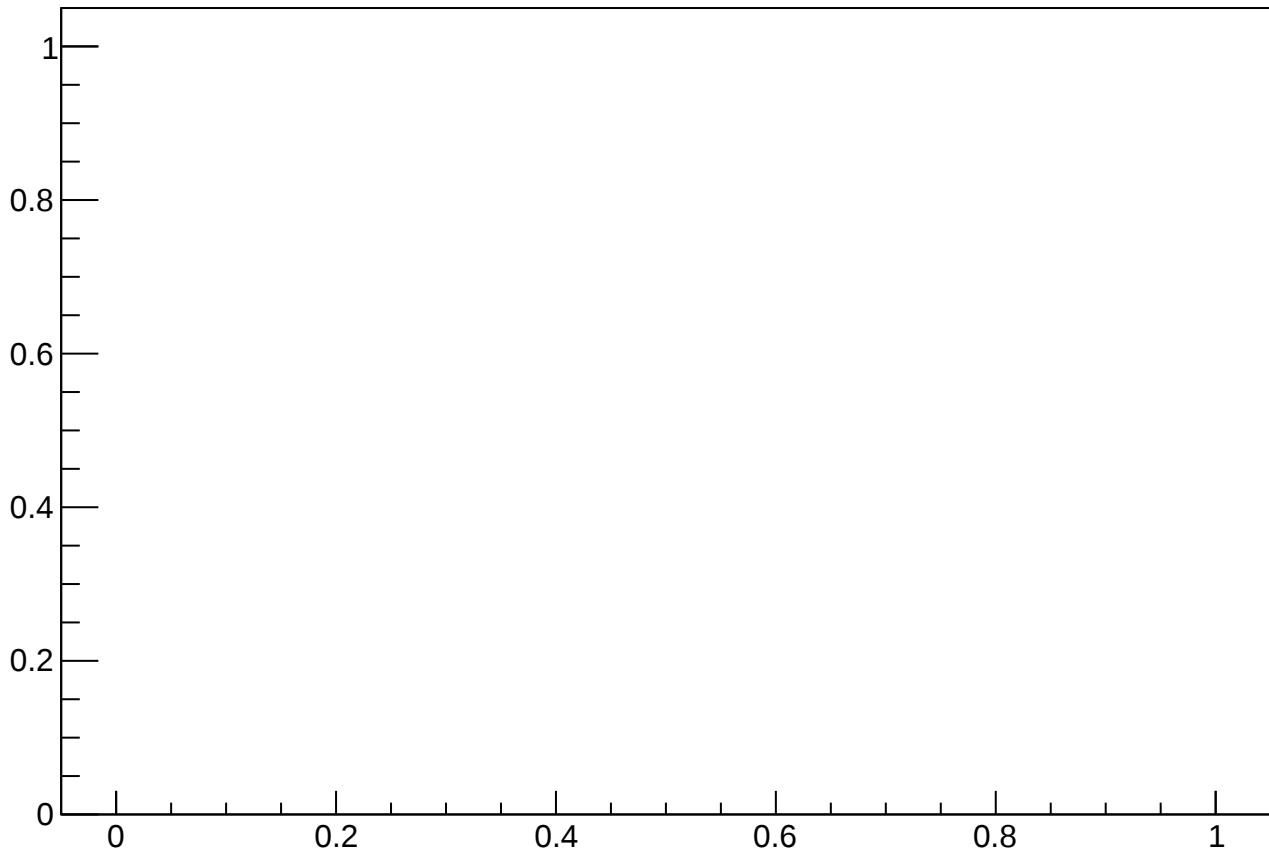
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil7\_mean vs Slug, Sign Corrected



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

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

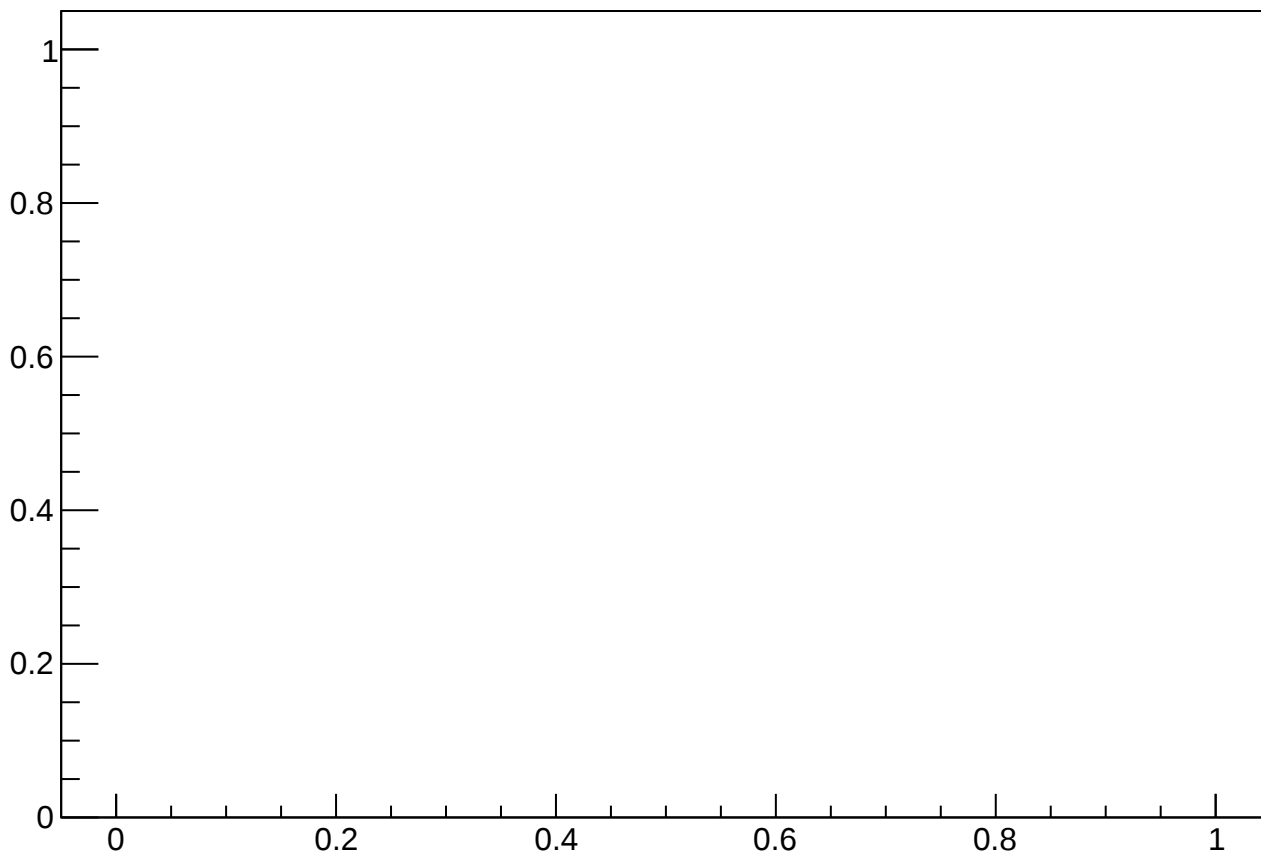
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eX\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

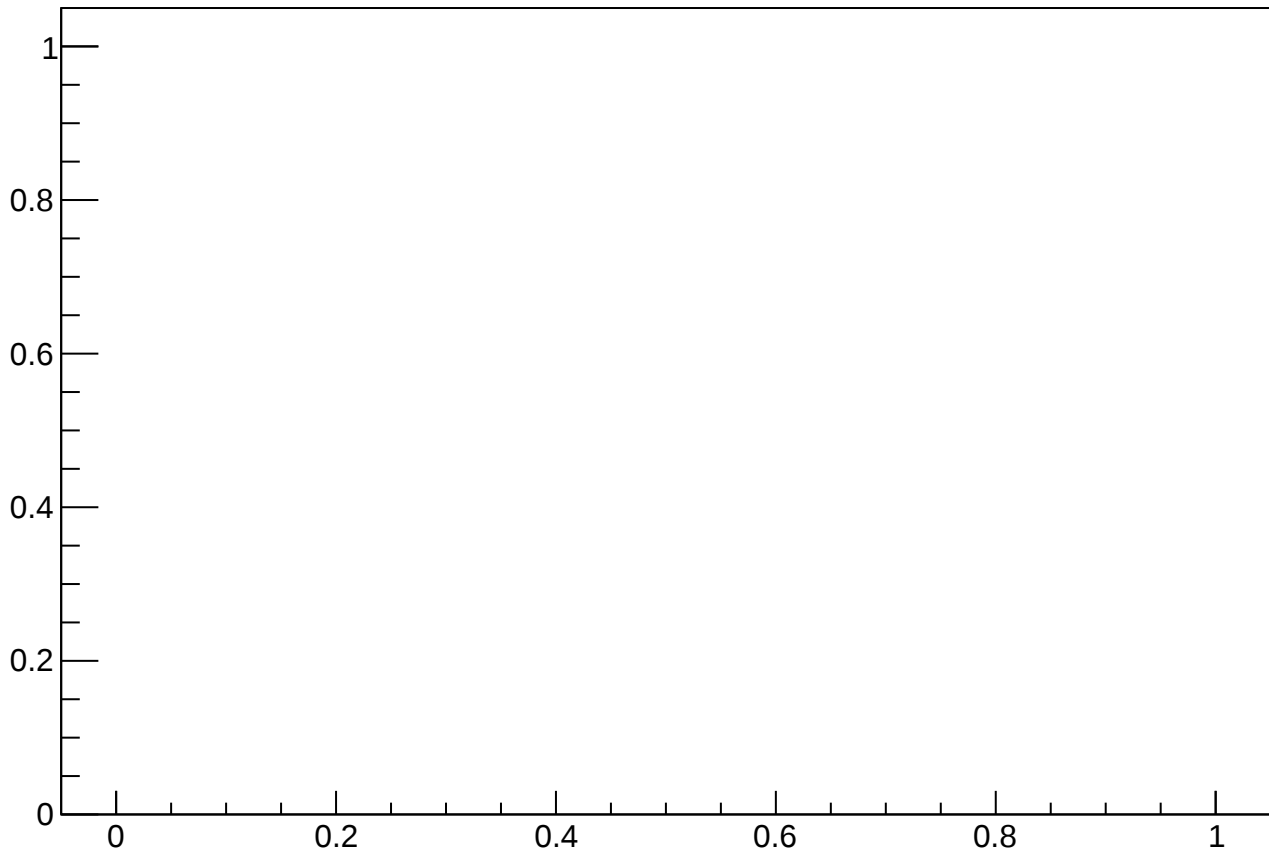
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eX\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

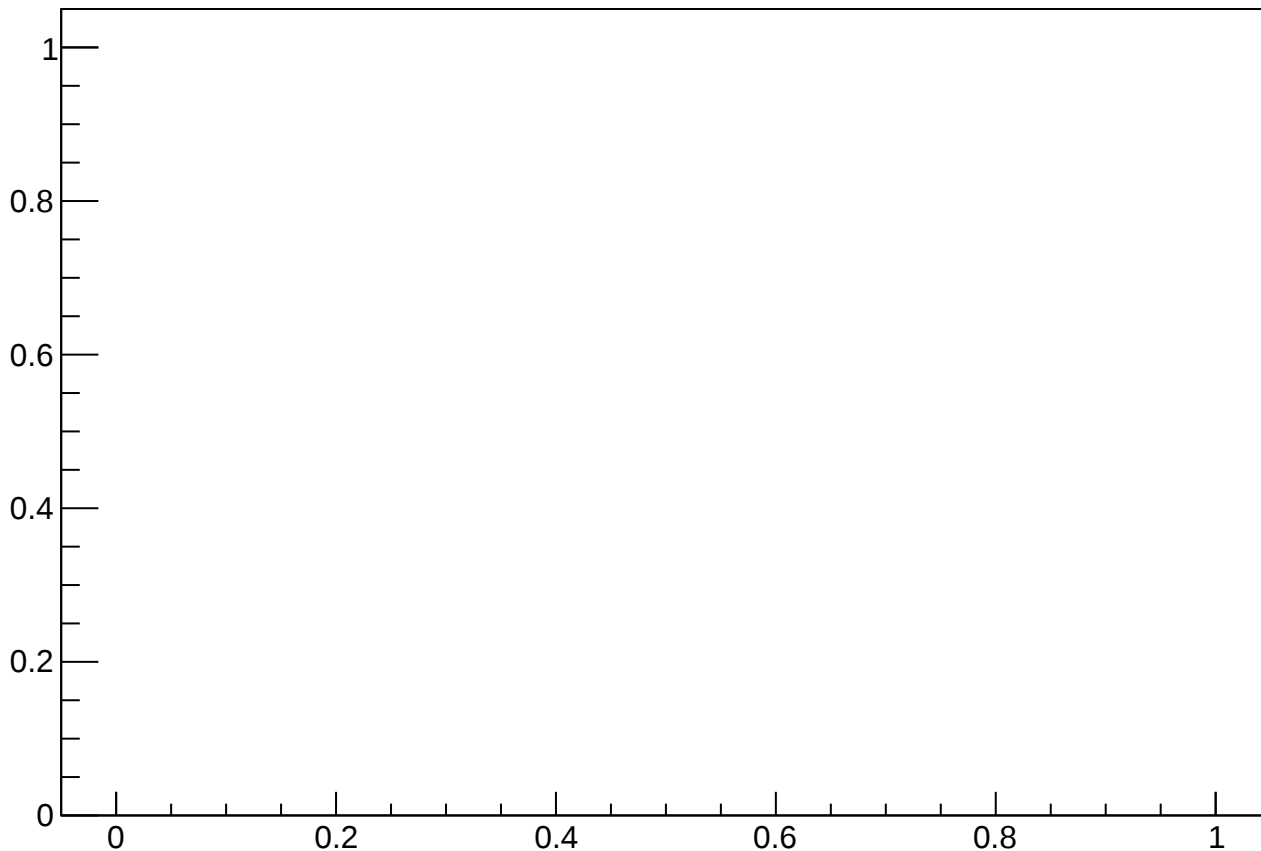
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_11X12X\_coil7\_mean vs Slug, Sign Corrected



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

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

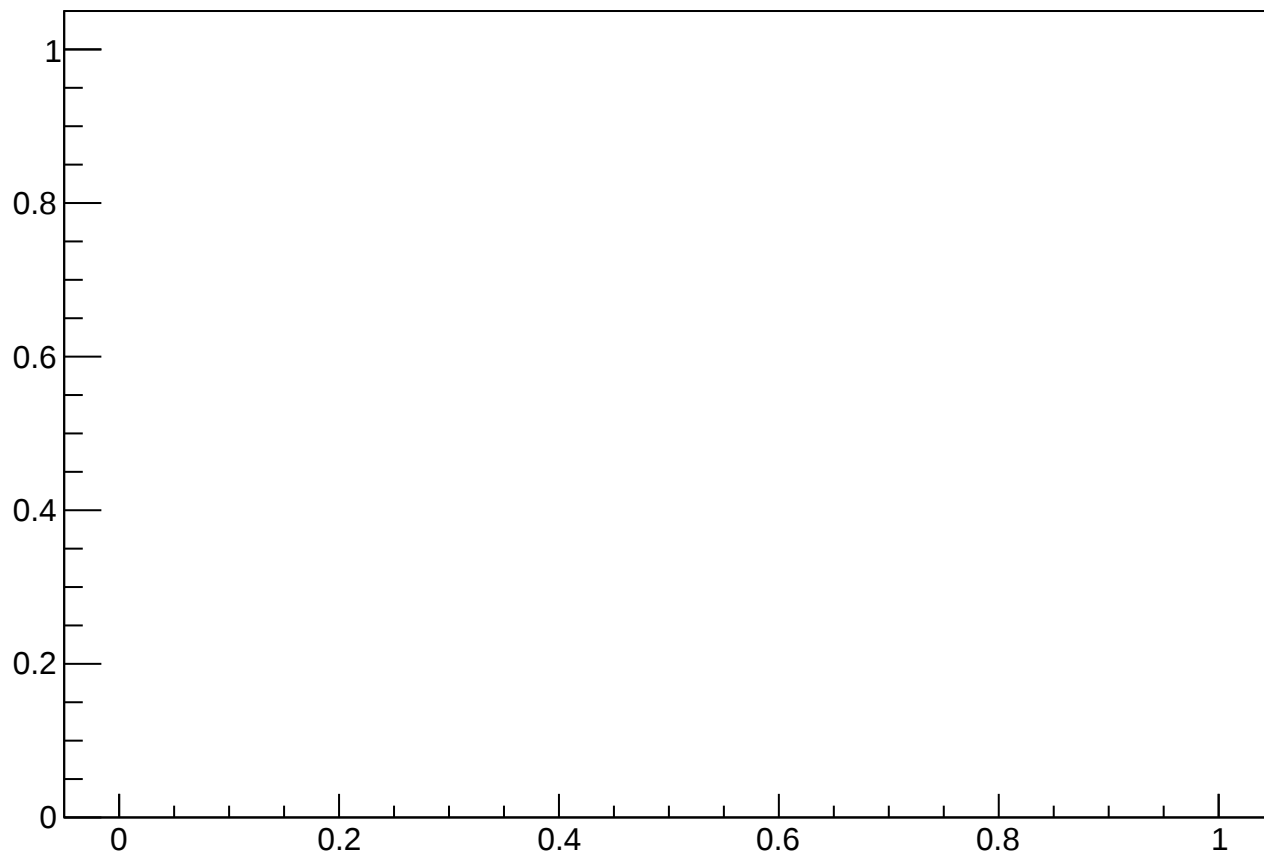
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

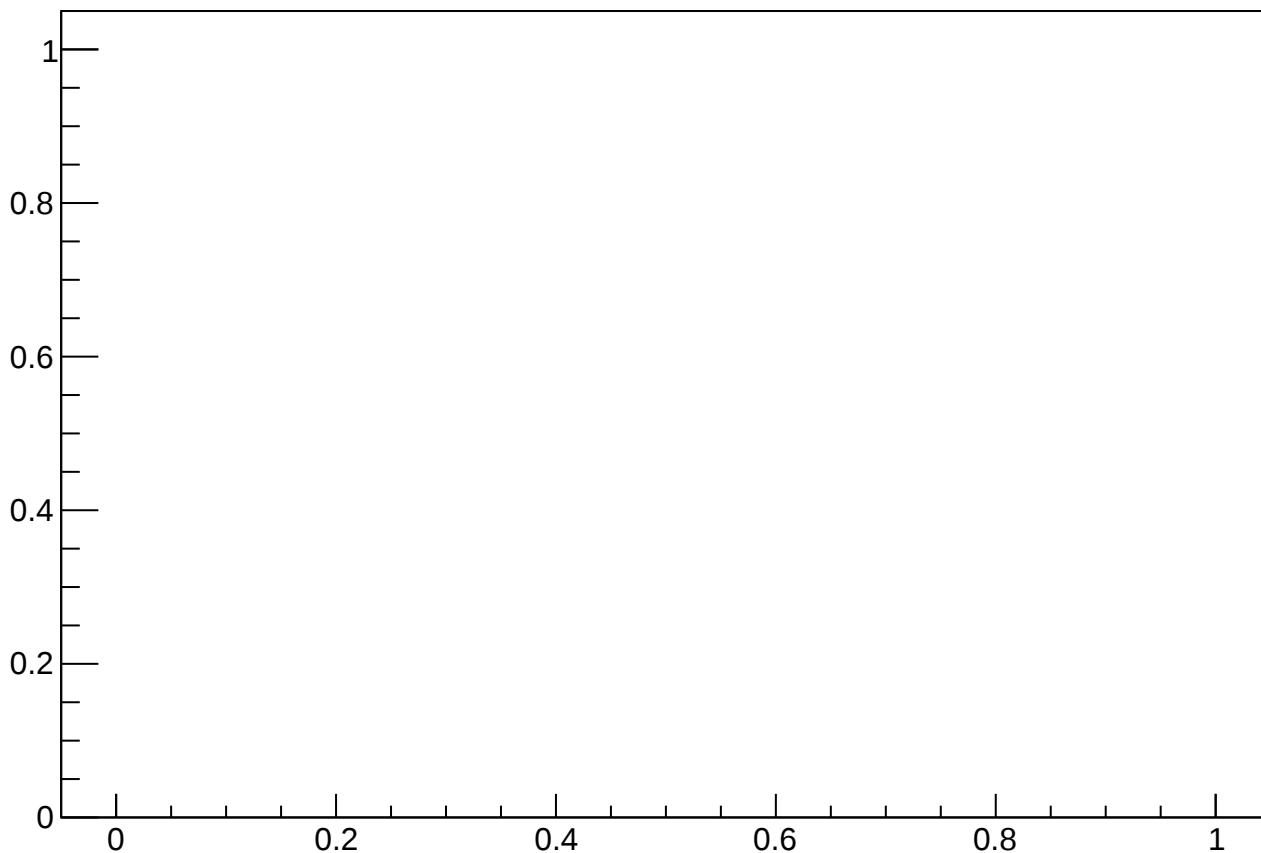
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_11X12X\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

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

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

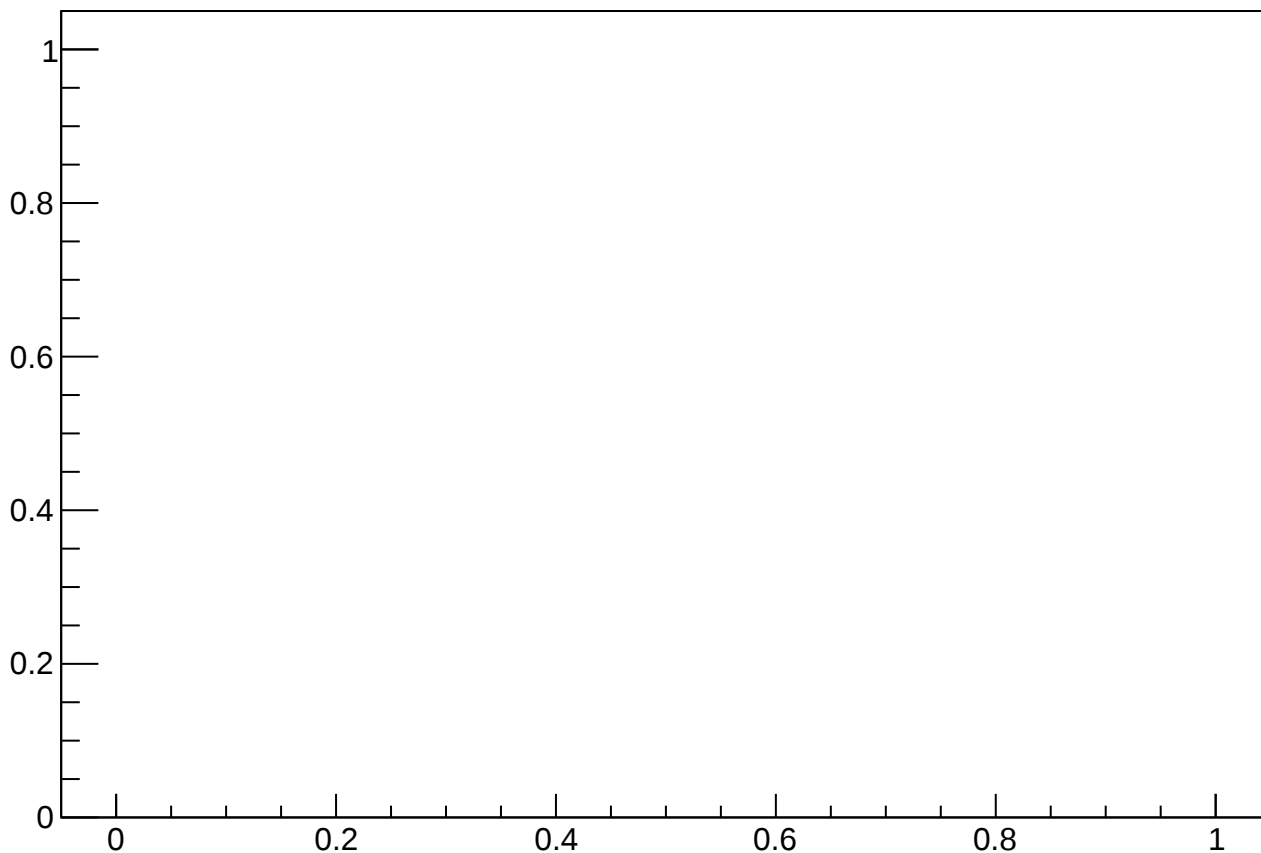
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_4aY\_coil7\_mean vs Slug, Sign Corrected



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

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

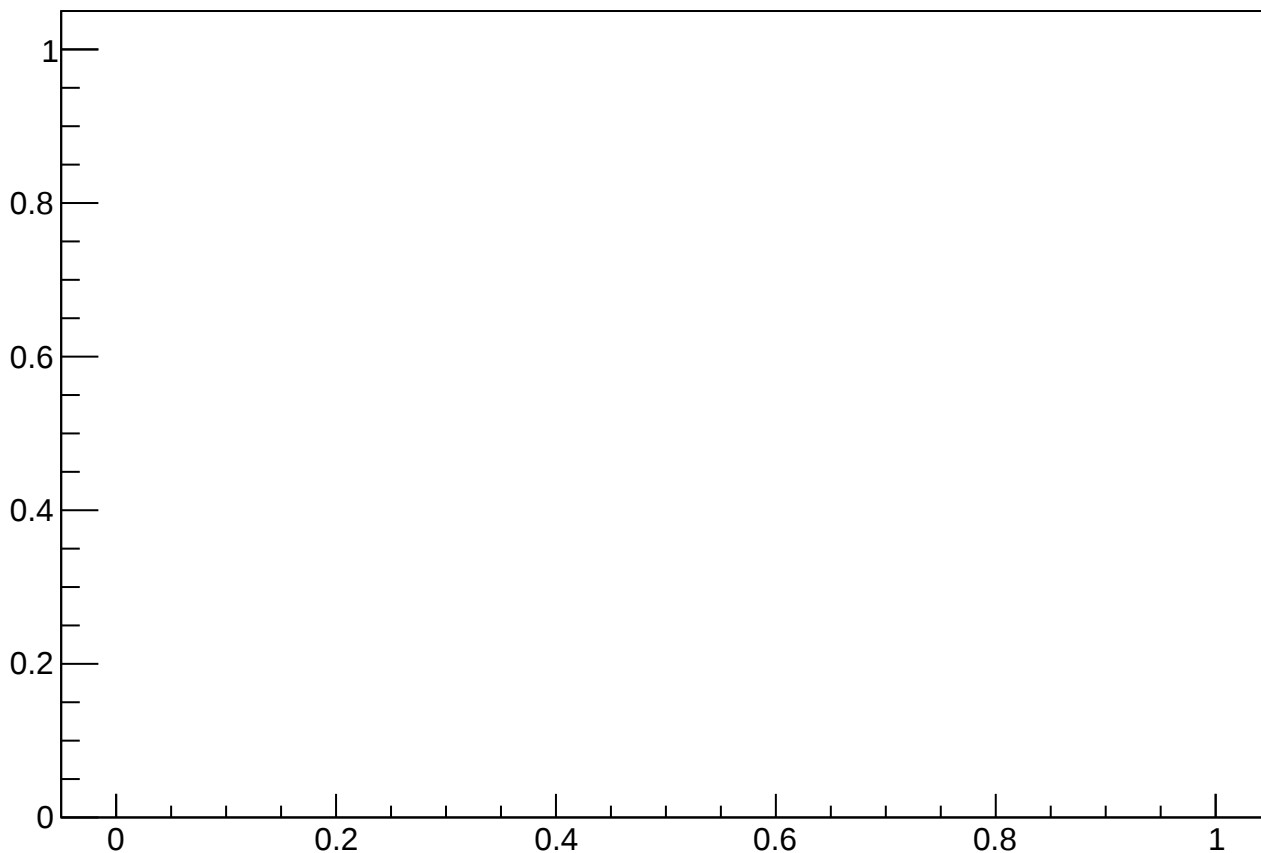
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4aY\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

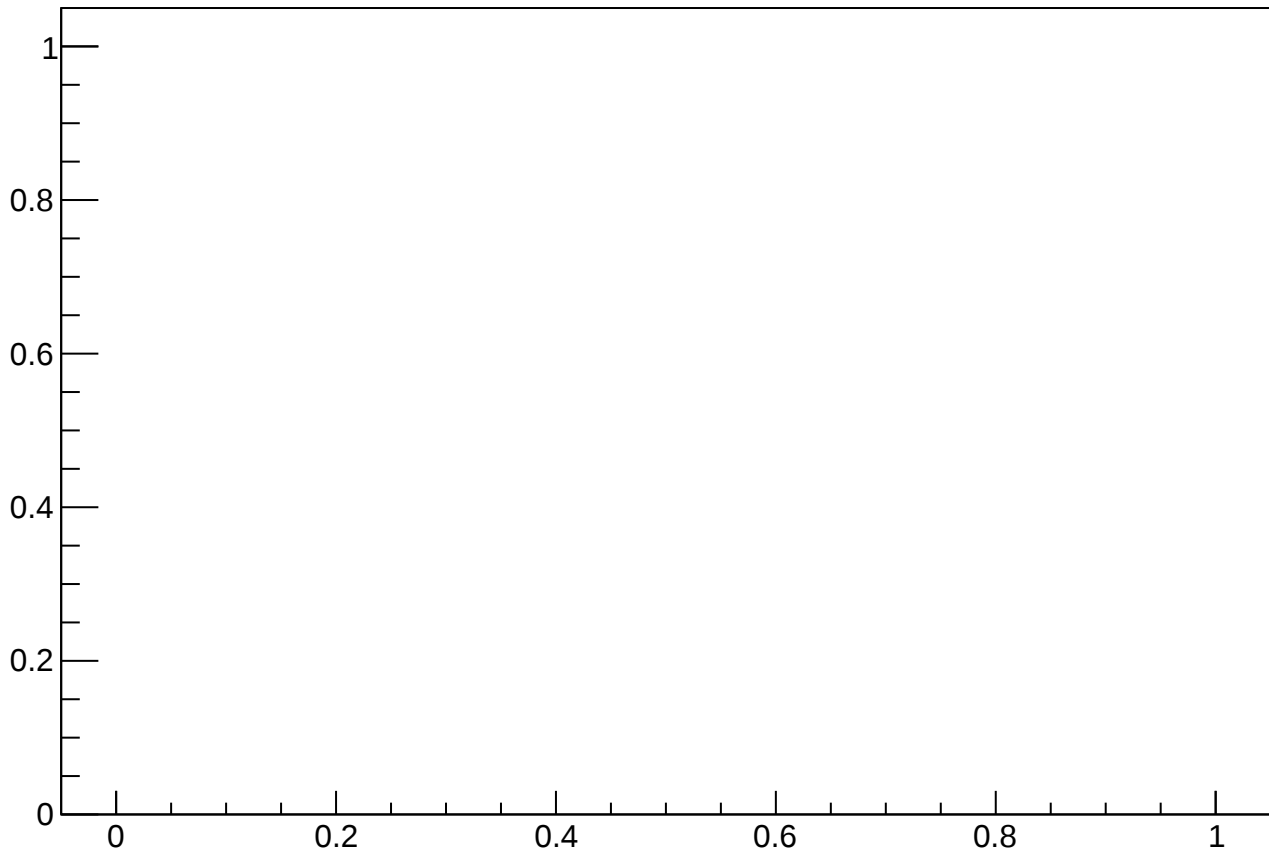
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4aY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

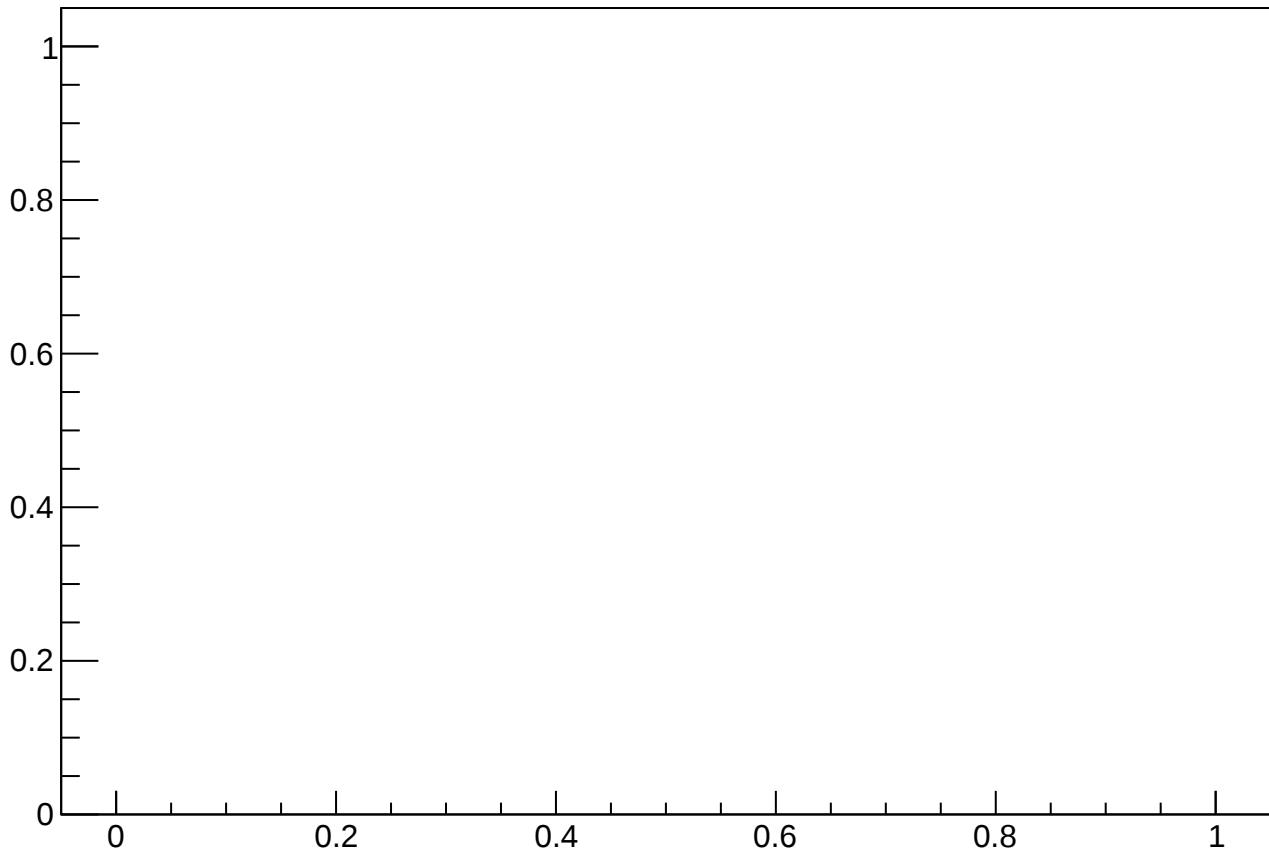
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil7\_mean vs Slug, Sign Corrected



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

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

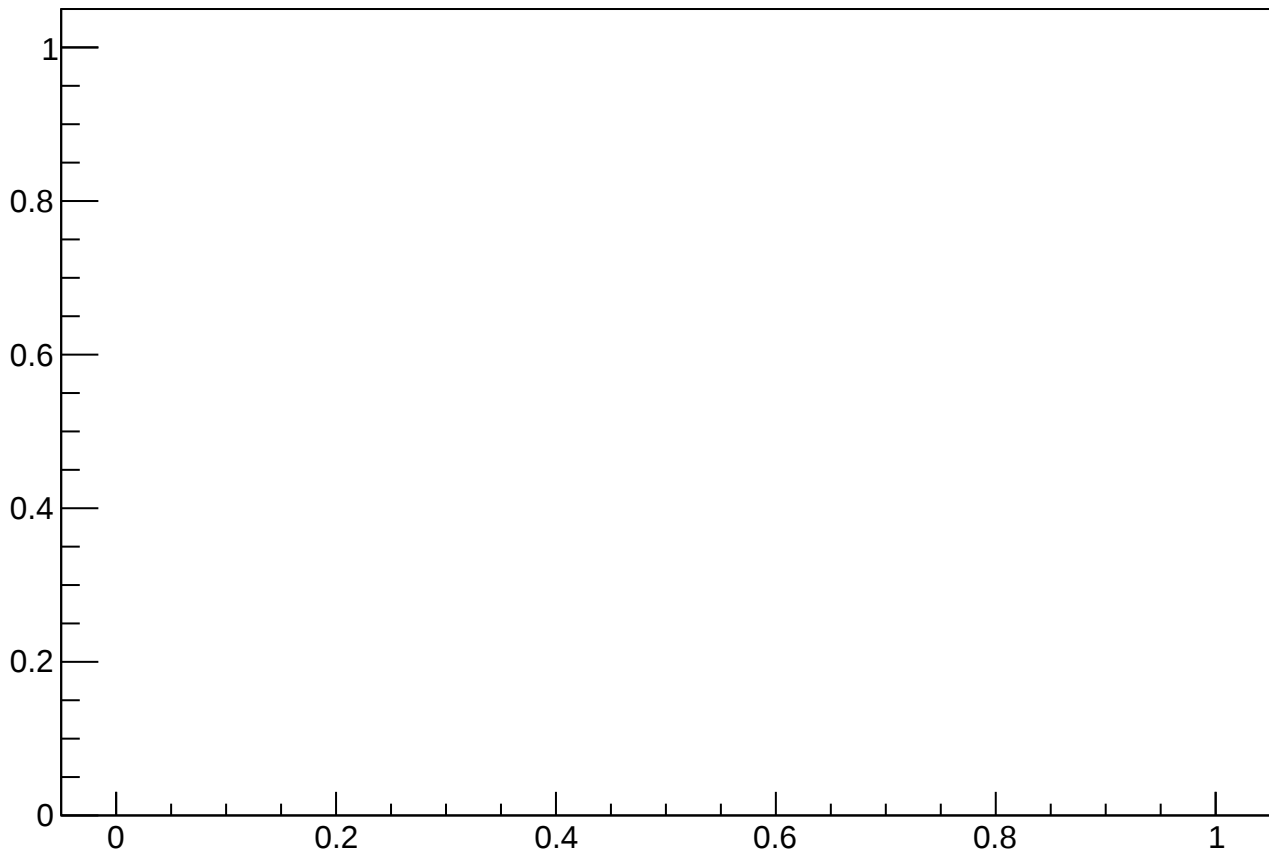
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_4eY\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

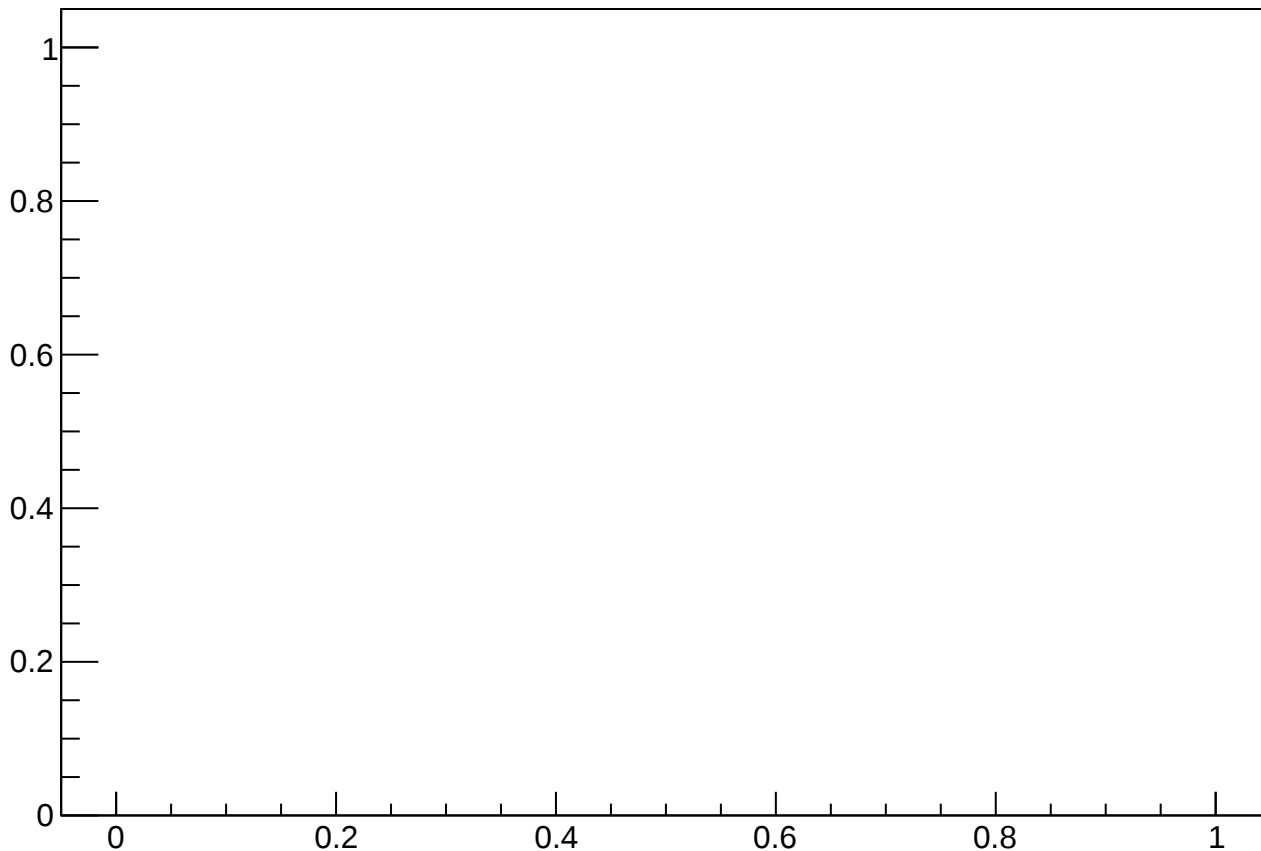
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_4eY\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

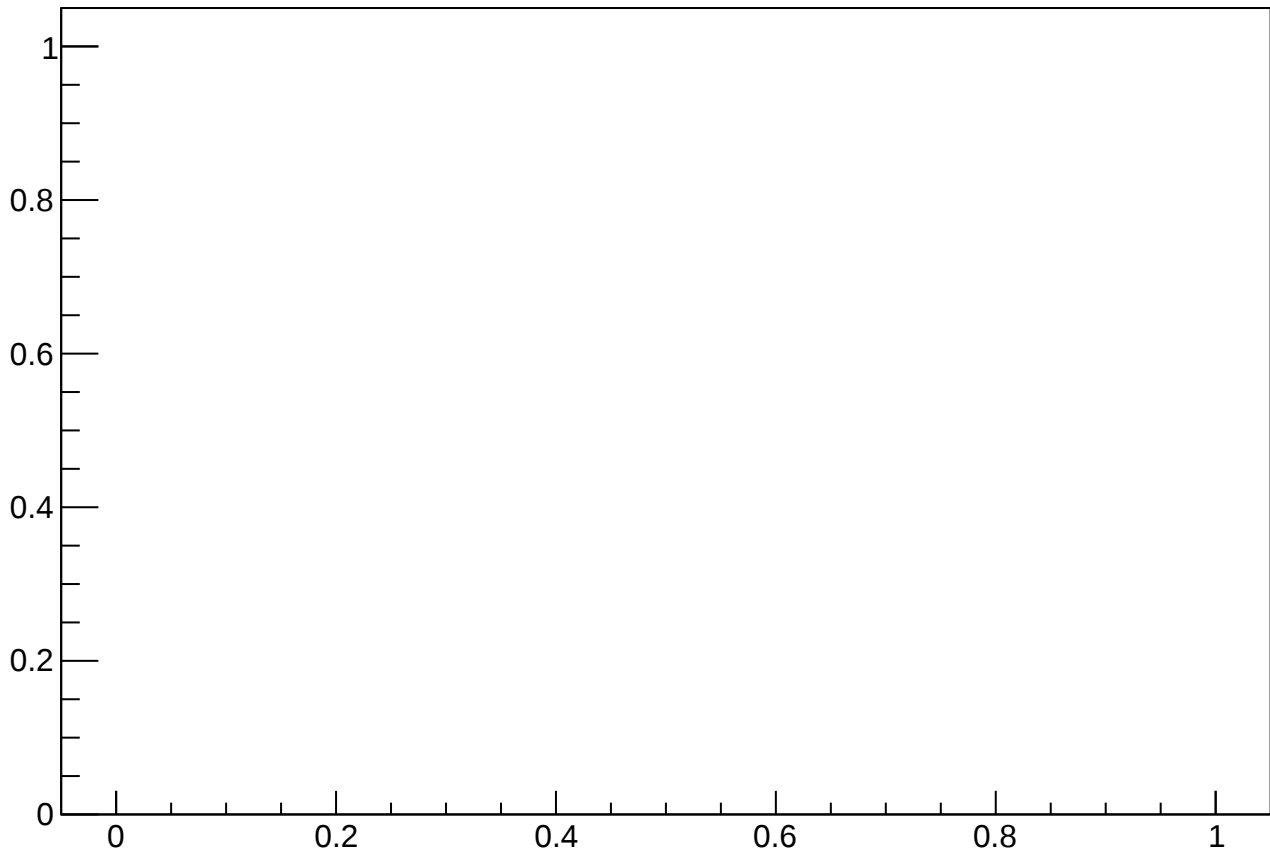
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usl\_coil7\_mean vs Slug, Sign Corrected



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

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

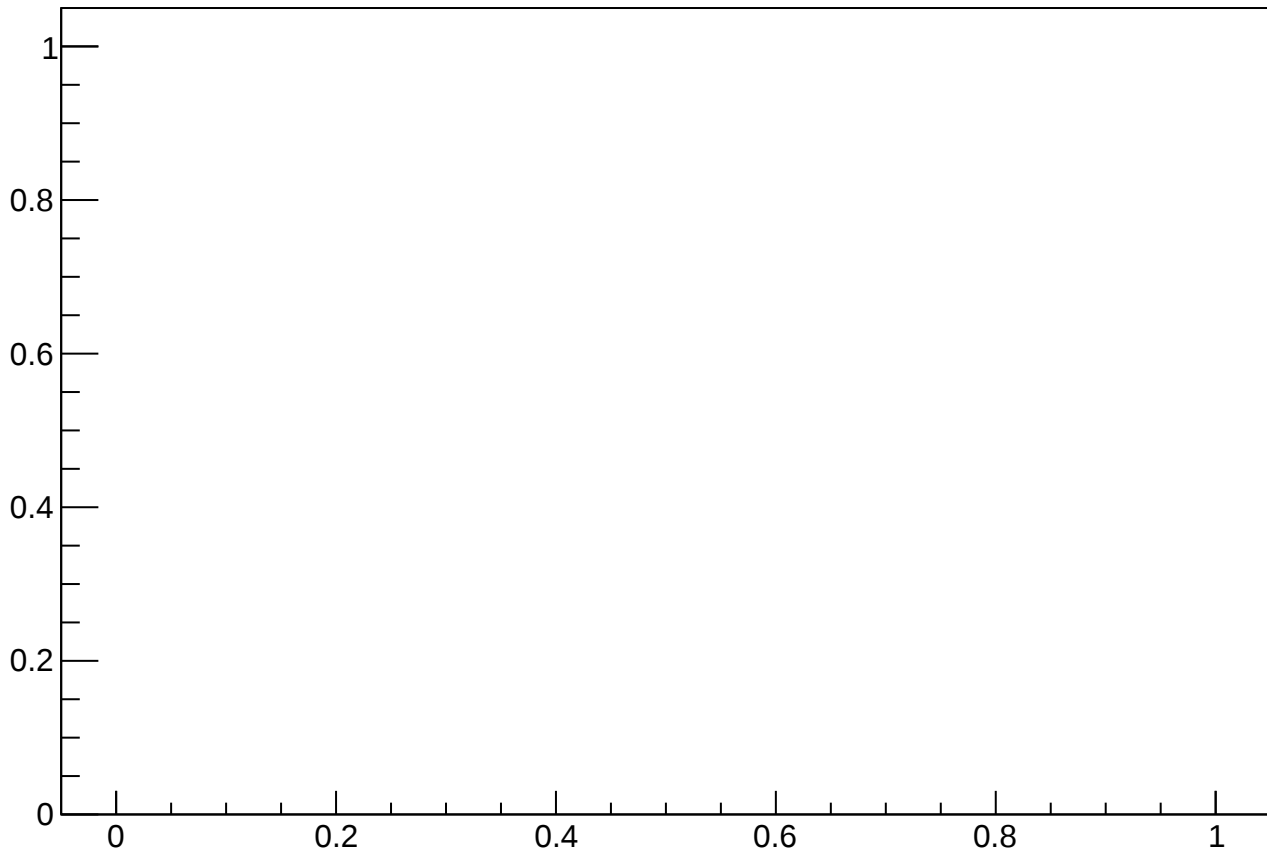
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usl\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

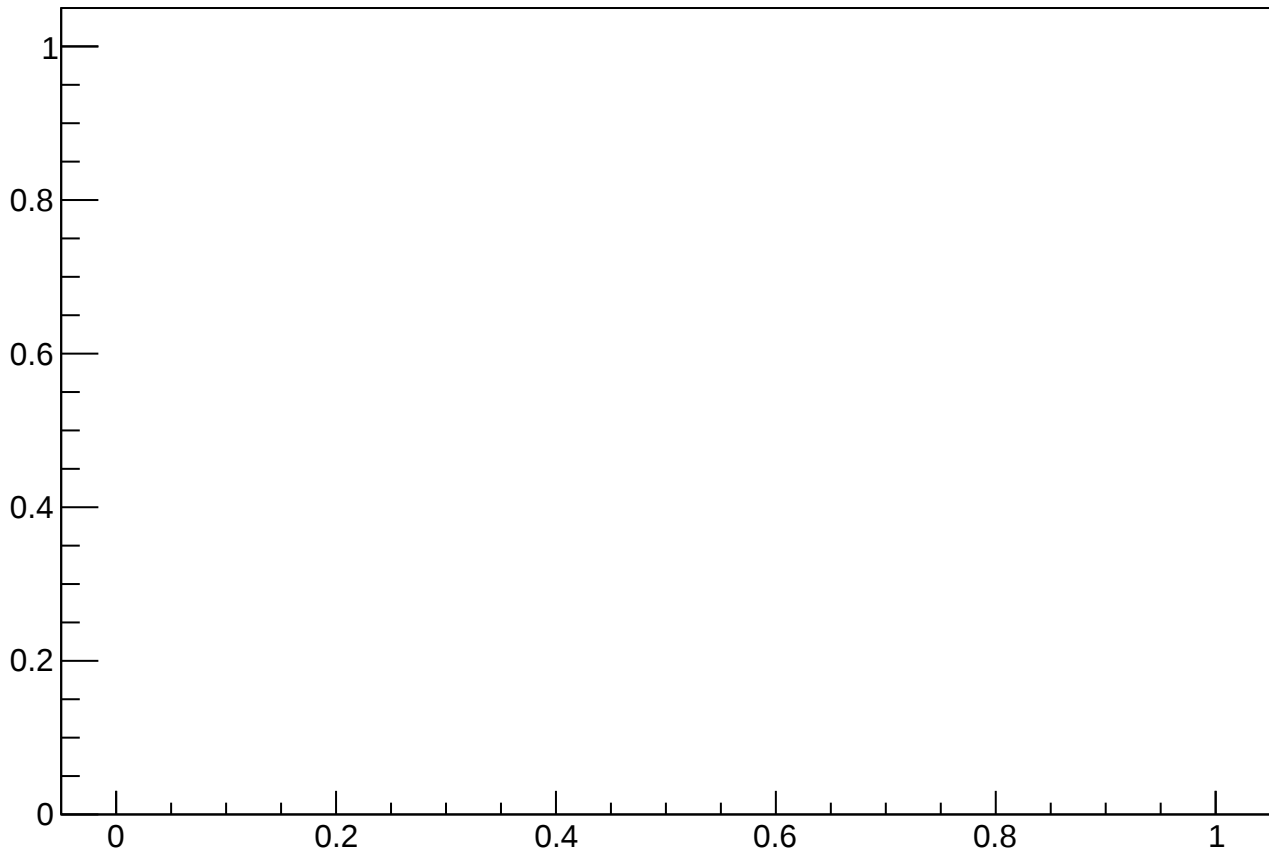
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usl\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

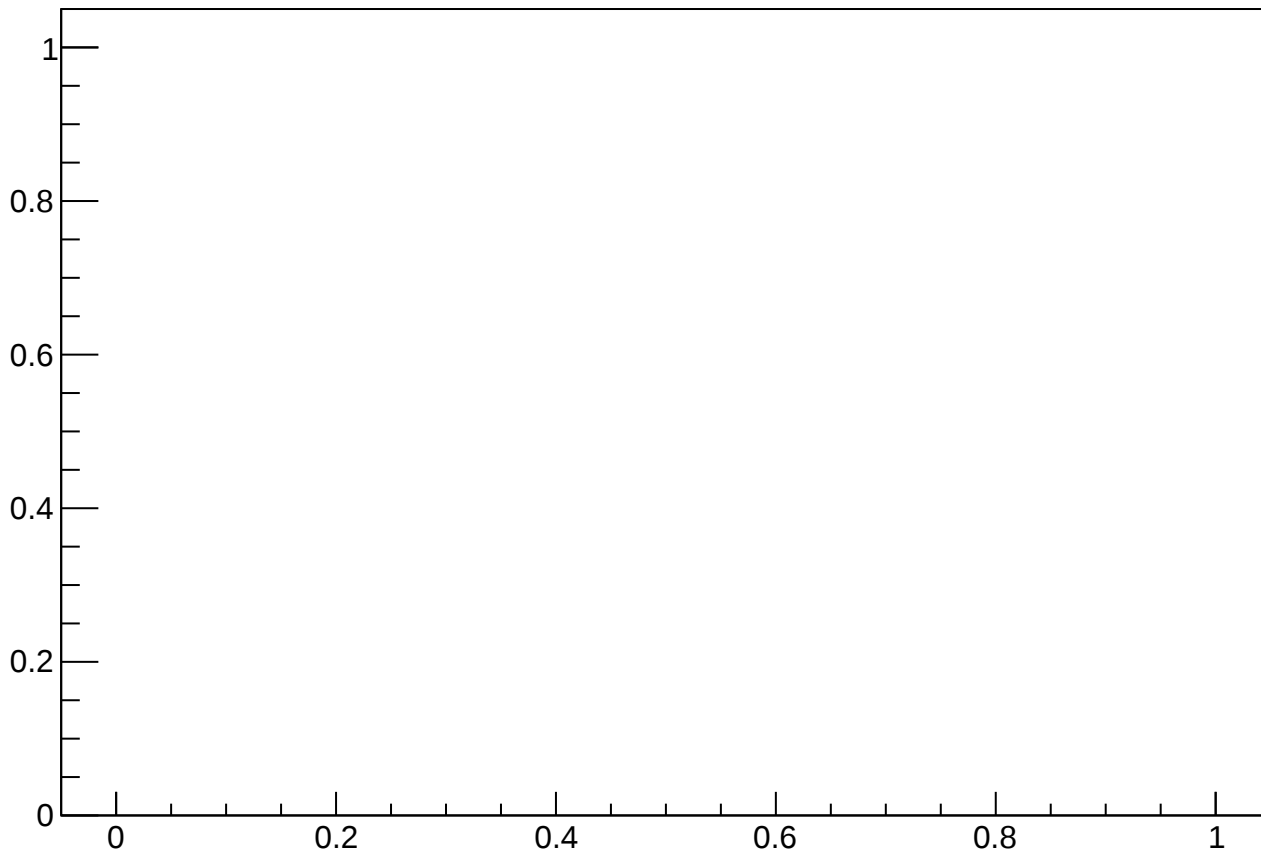
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_usr\_coil7\_mean vs Slug, Sign Corrected



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

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

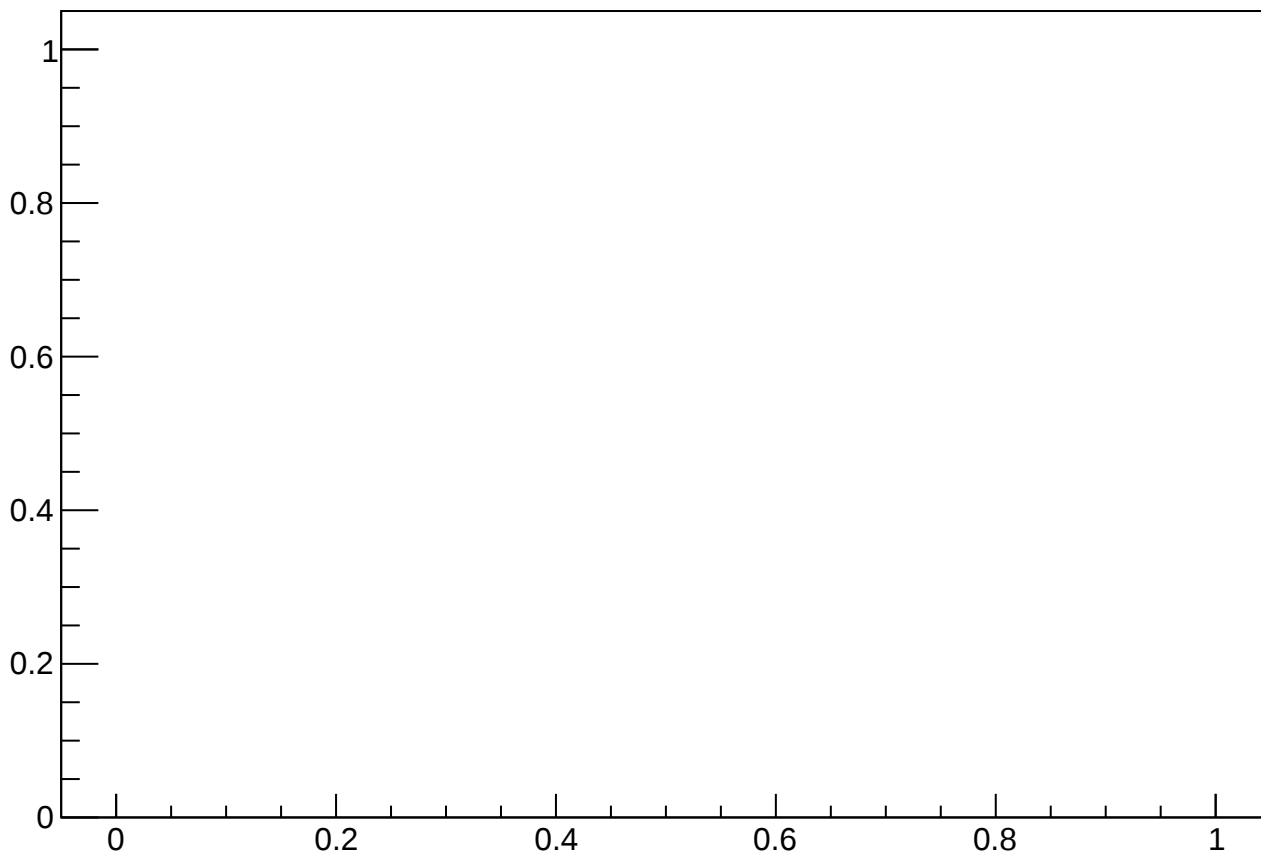
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

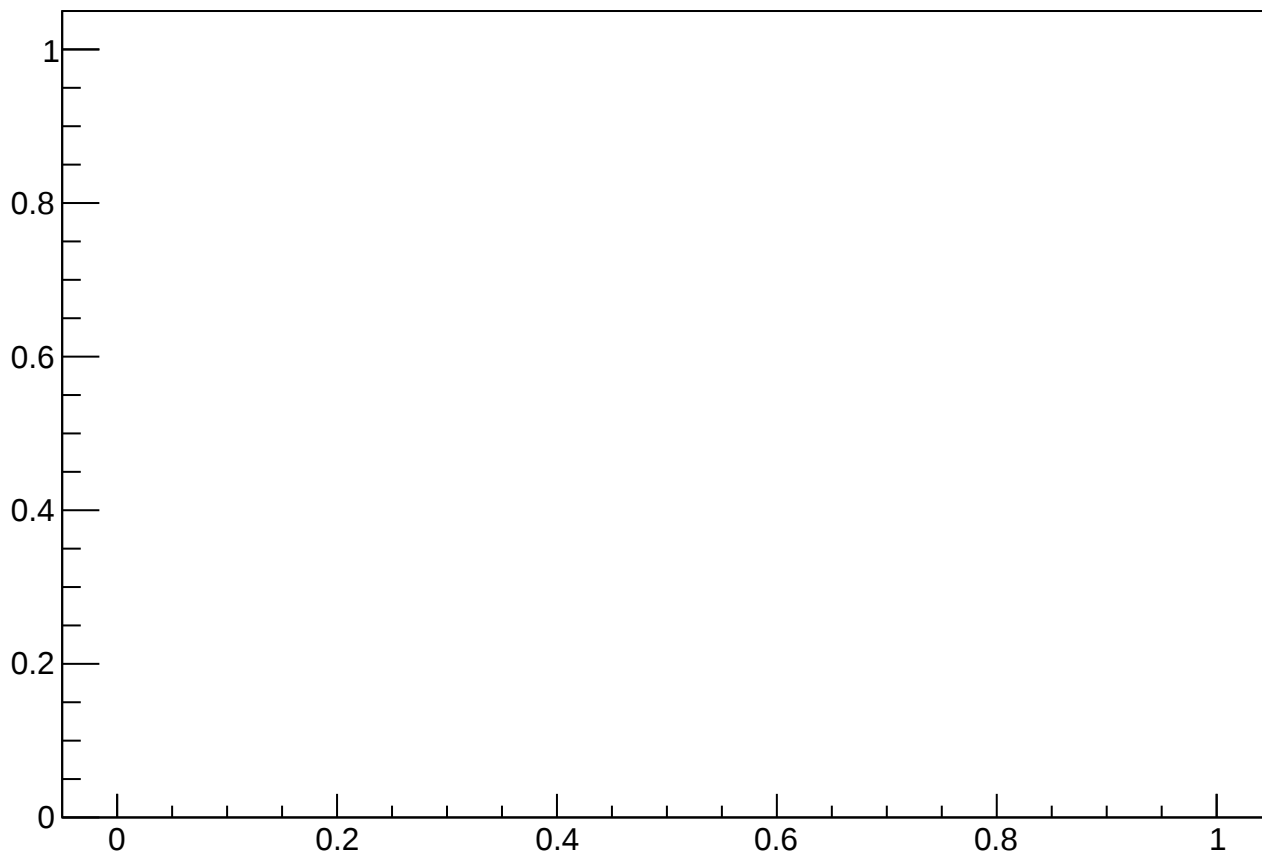
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_usr\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

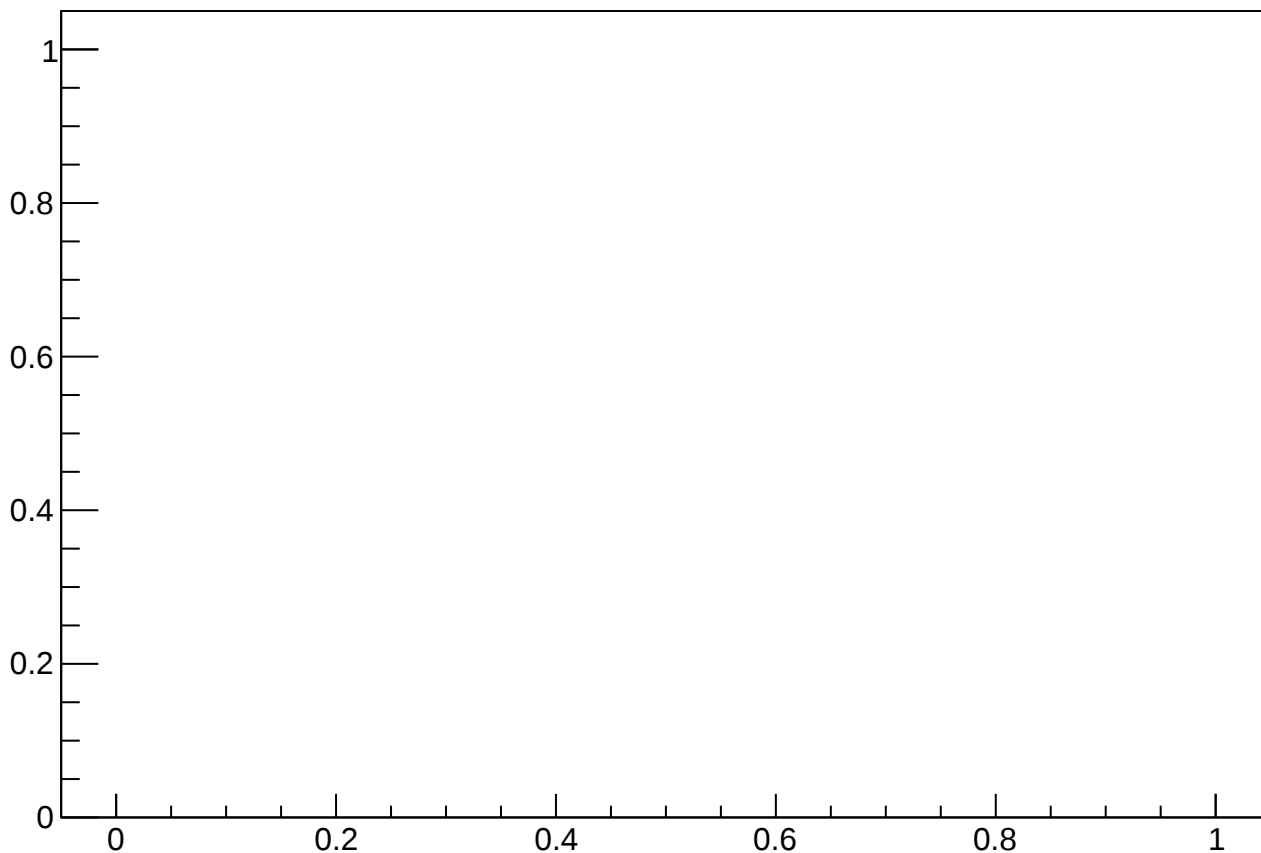
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl1\_coil7\_mean vs Slug, Sign Corrected



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

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

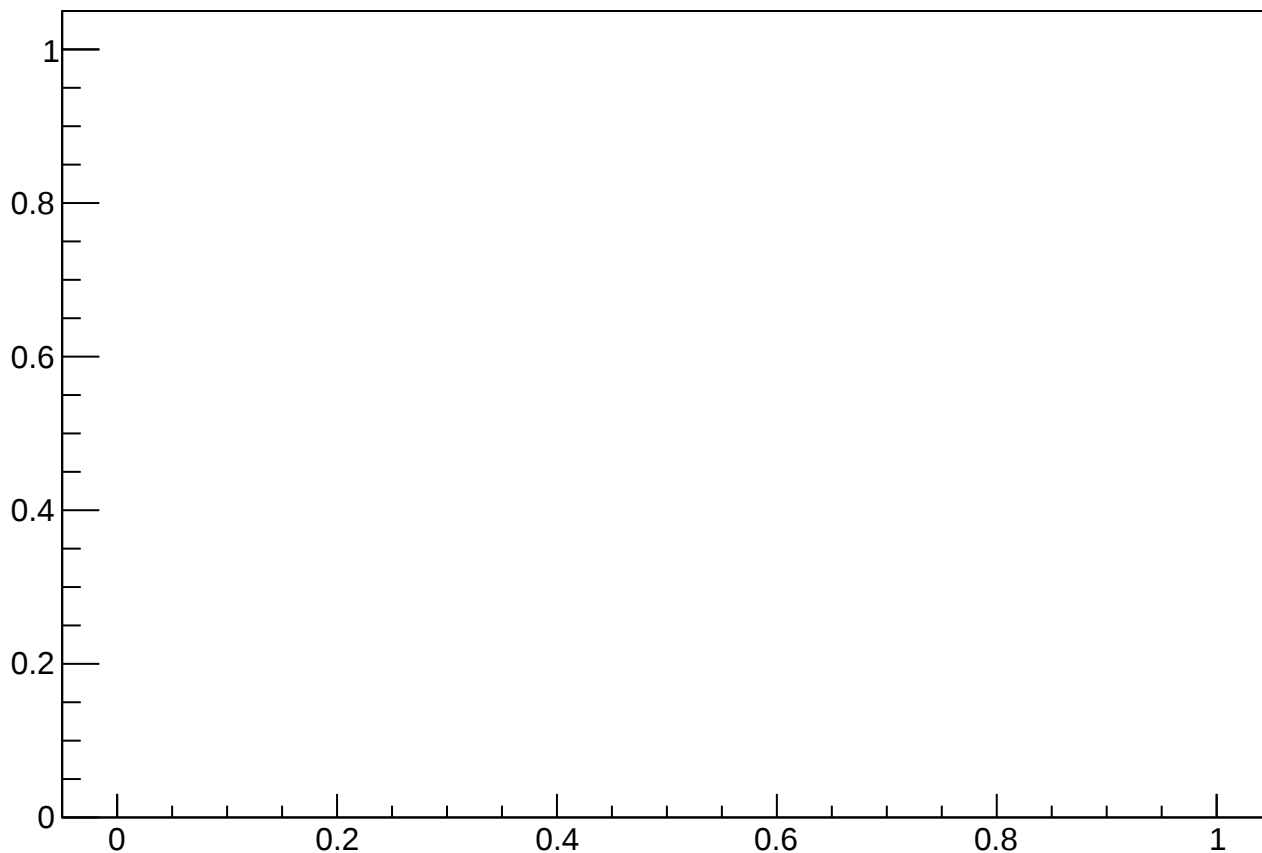
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl1\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

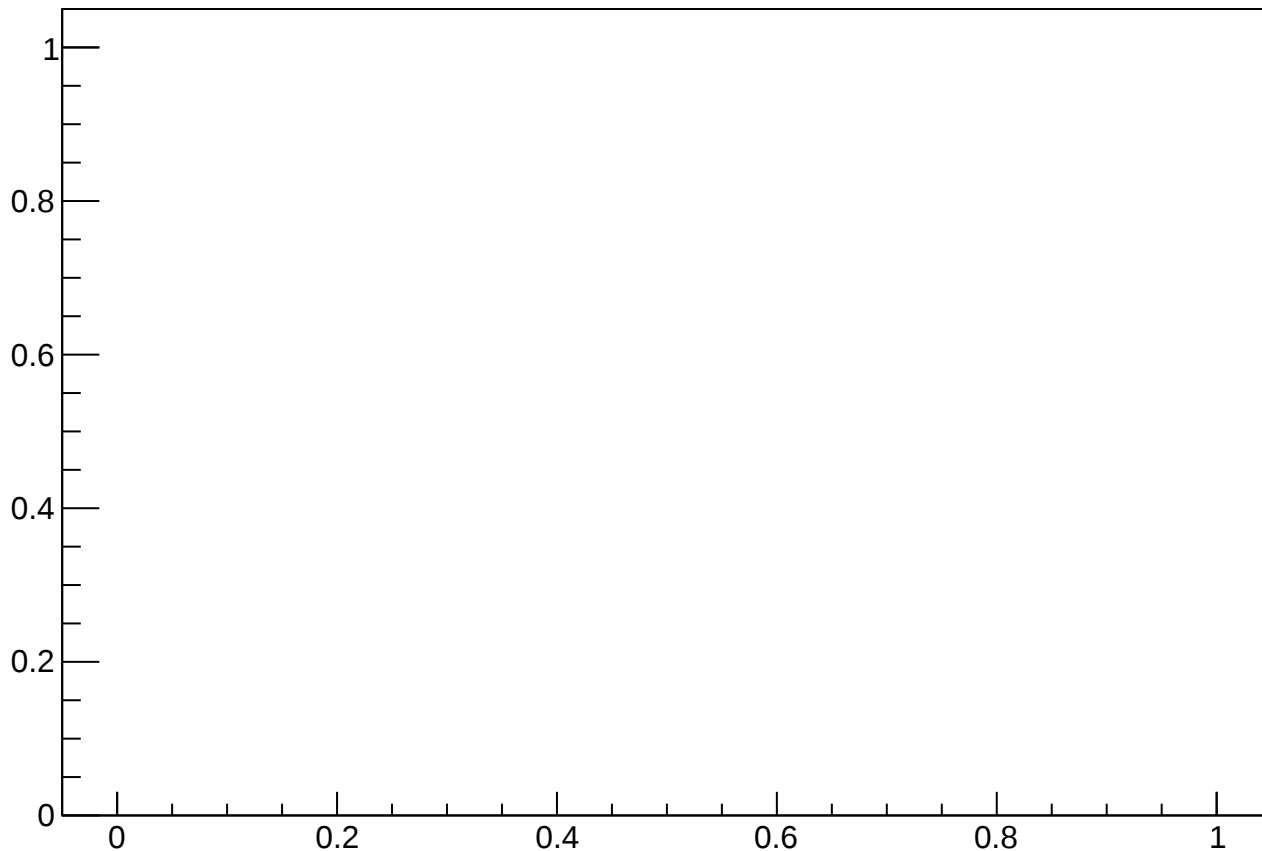
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

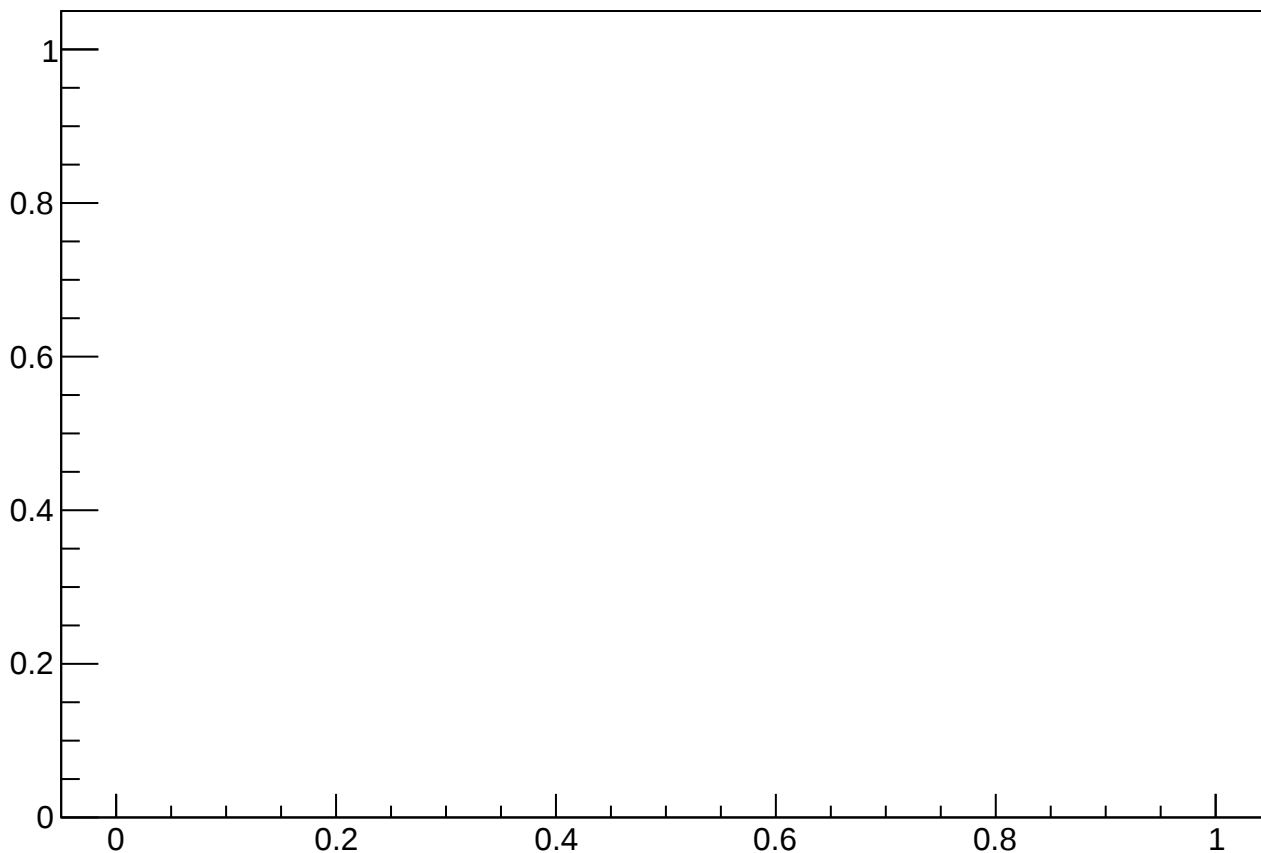
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atl2\_coil7\_mean vs Slug, Sign Corrected



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

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

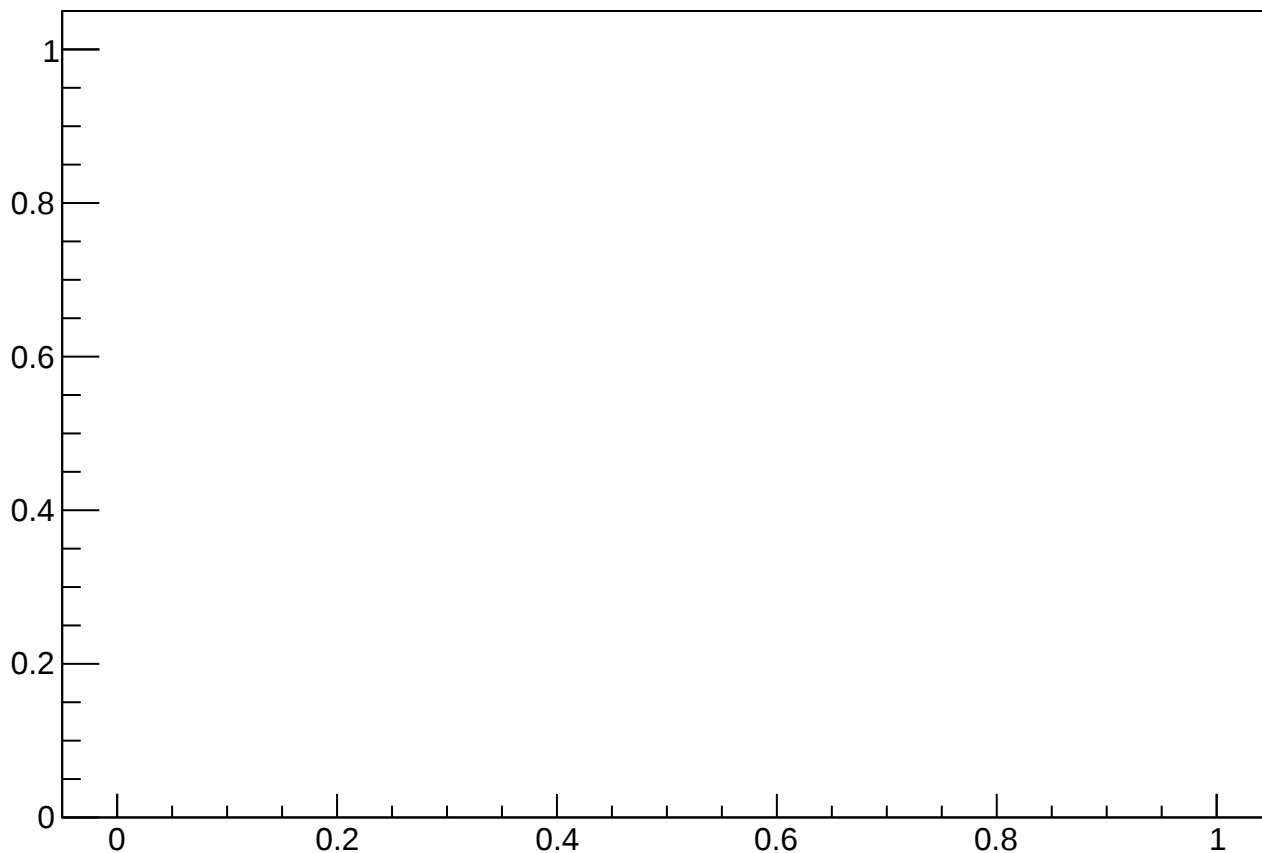
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

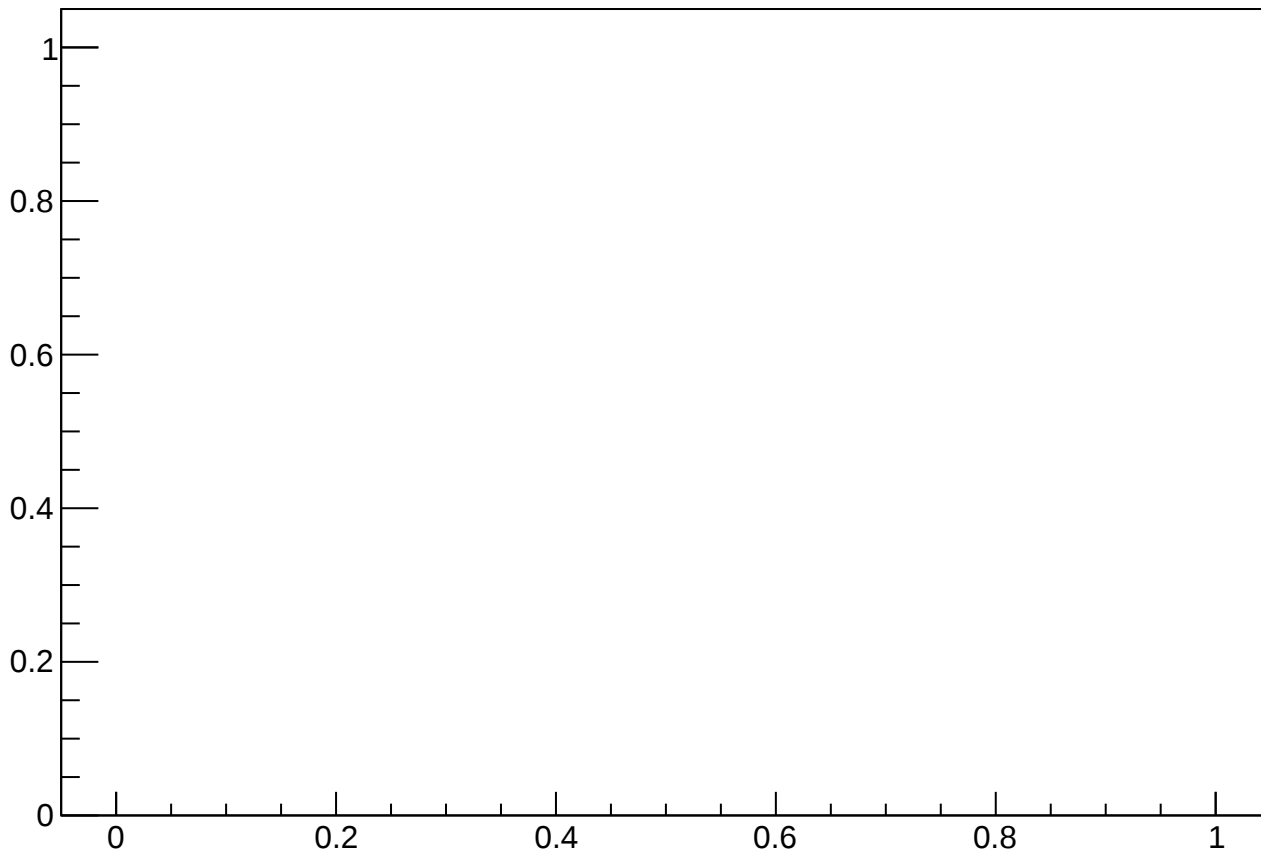
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atl2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

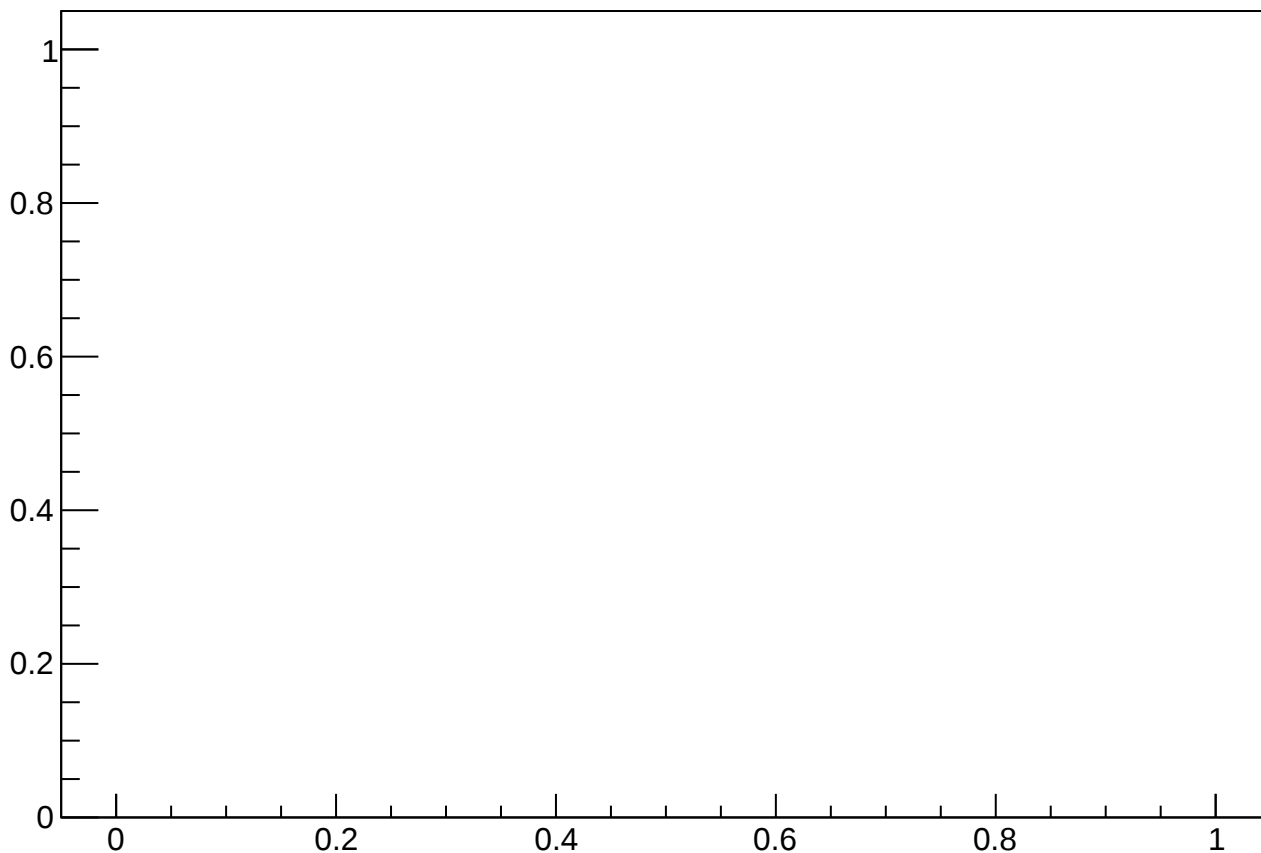
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr1\_coil7\_mean vs Slug, Sign Corrected



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

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

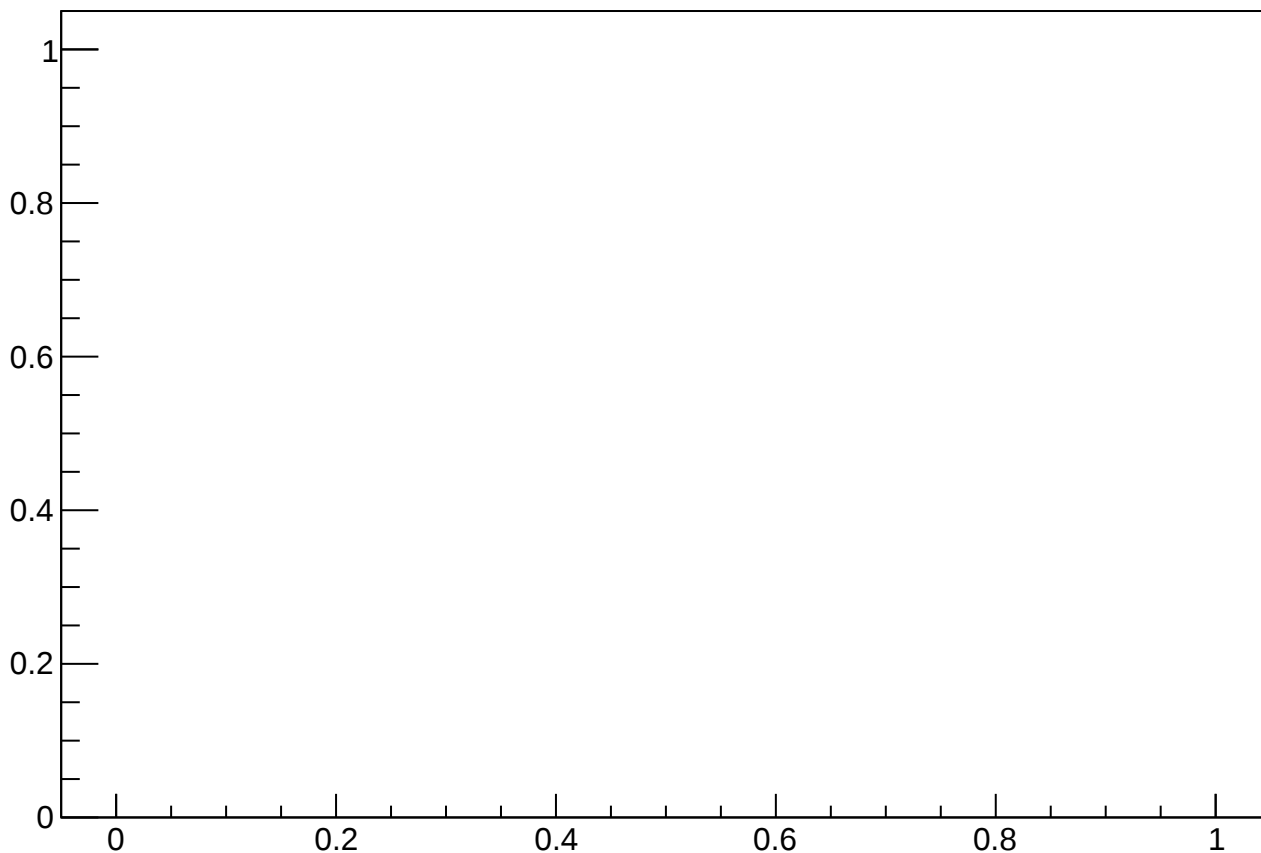
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr1\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

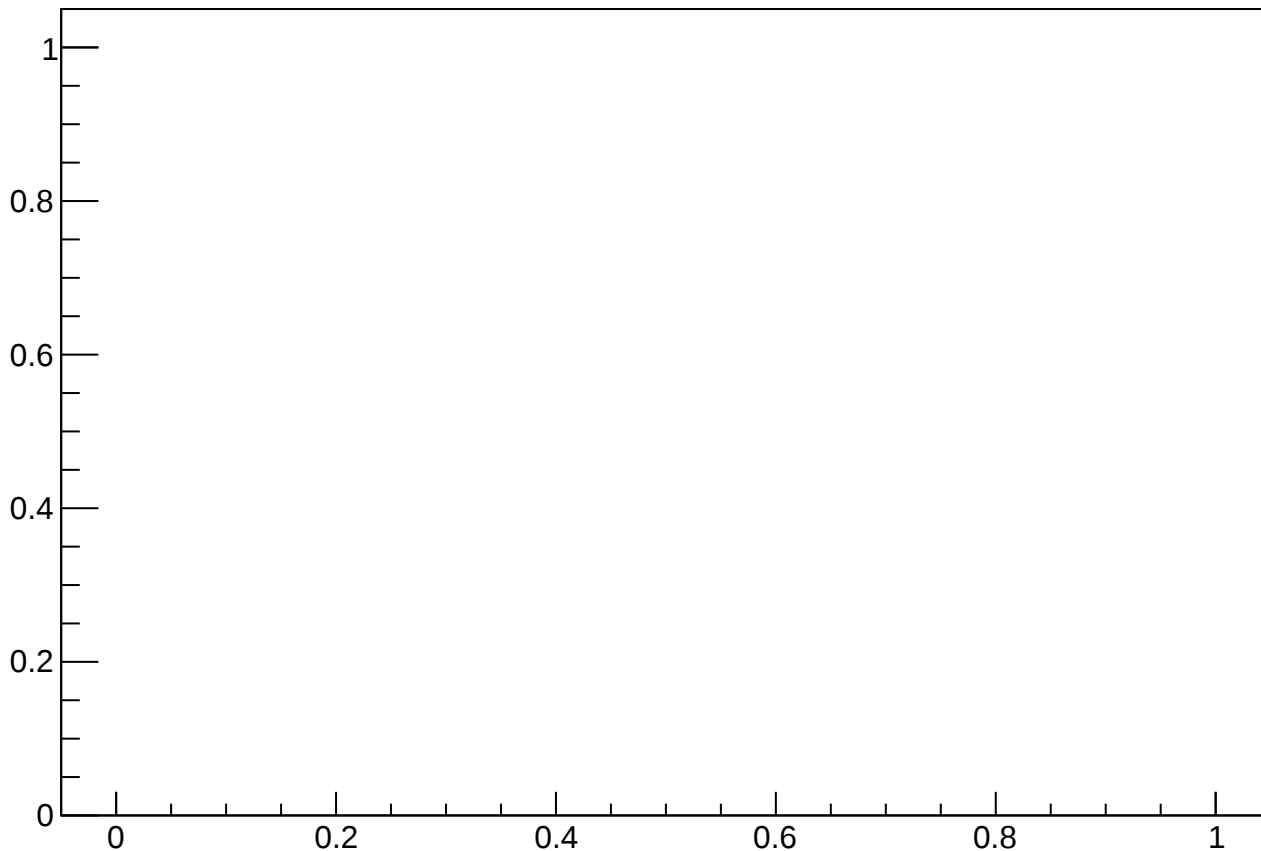
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

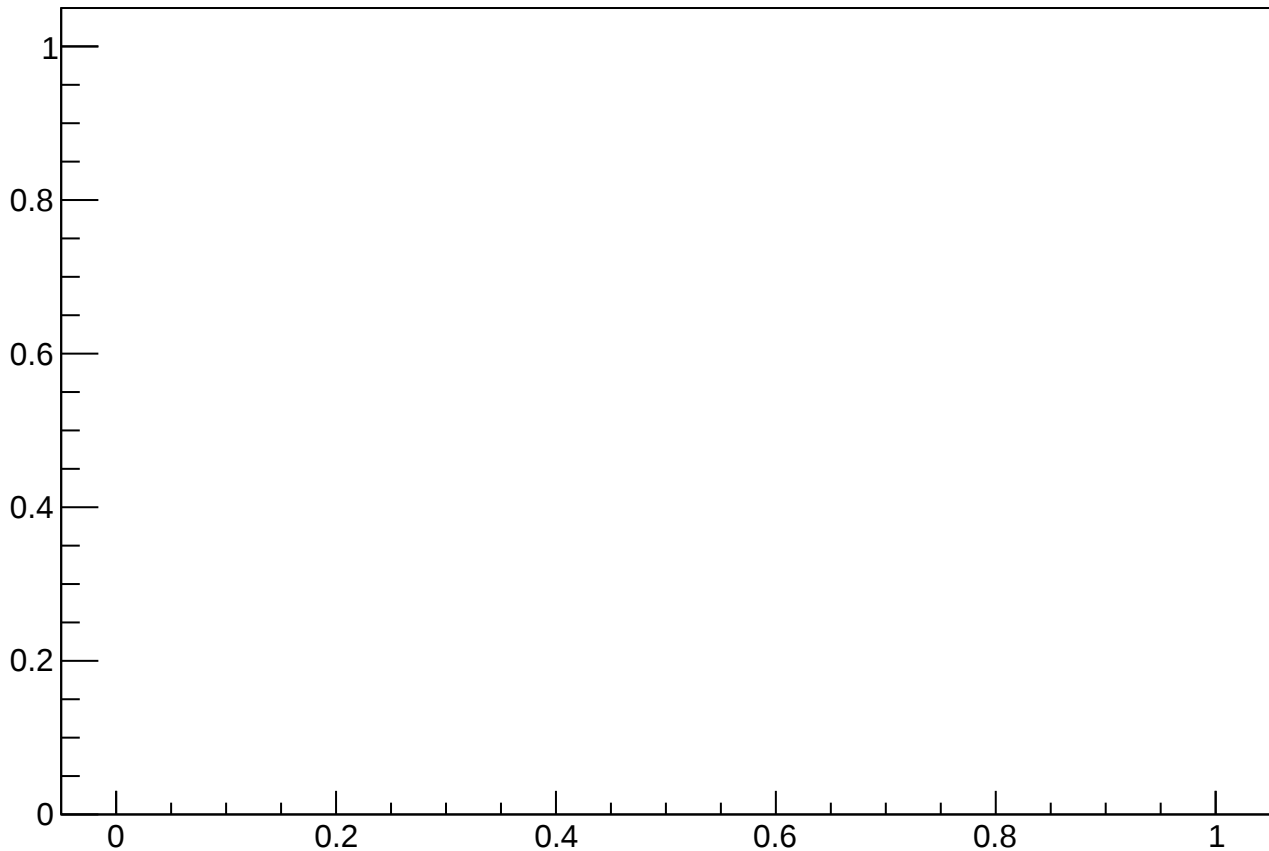
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr2\_coil7\_mean vs Slug, Sign Corrected



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

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

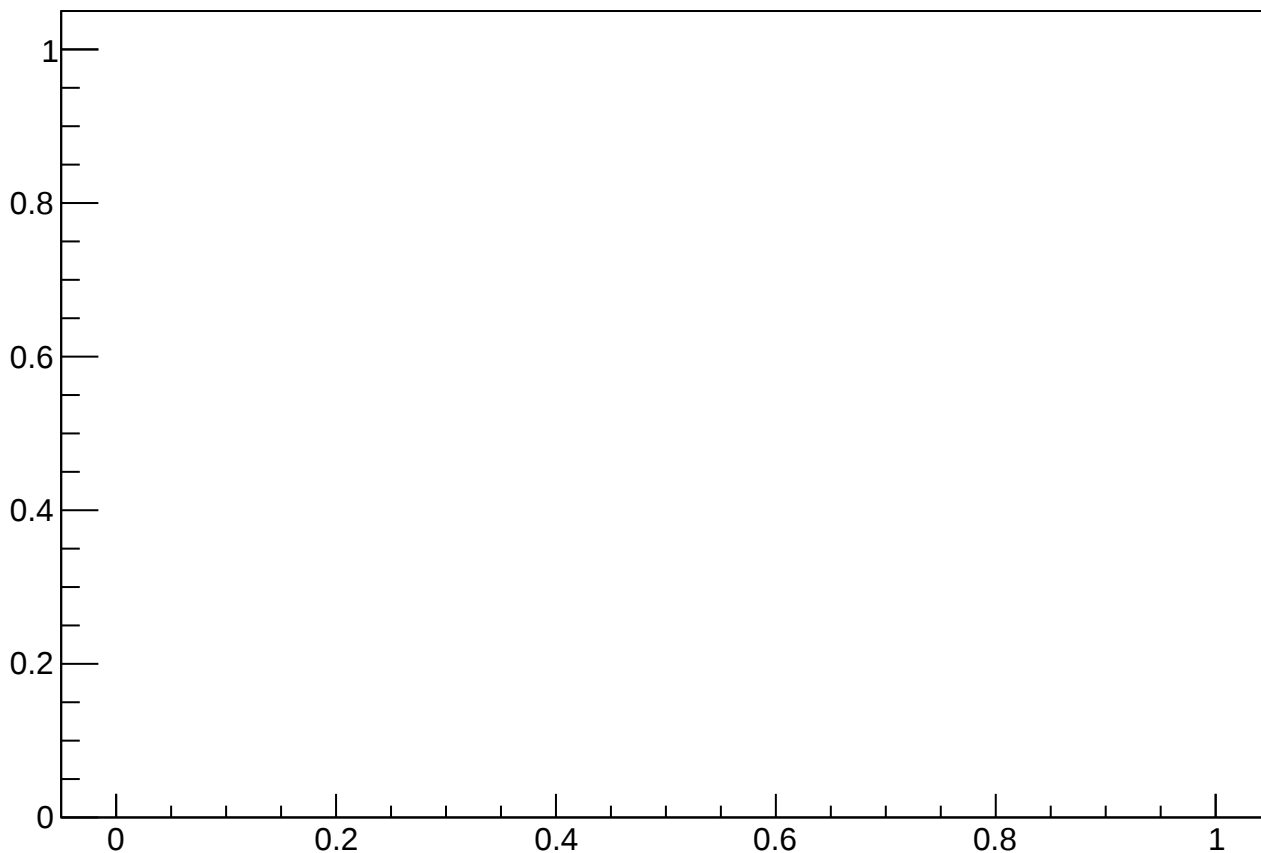
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

# dit\_atr2\_coil7\_err\_mean vs Slug, Sign Corrected



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

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

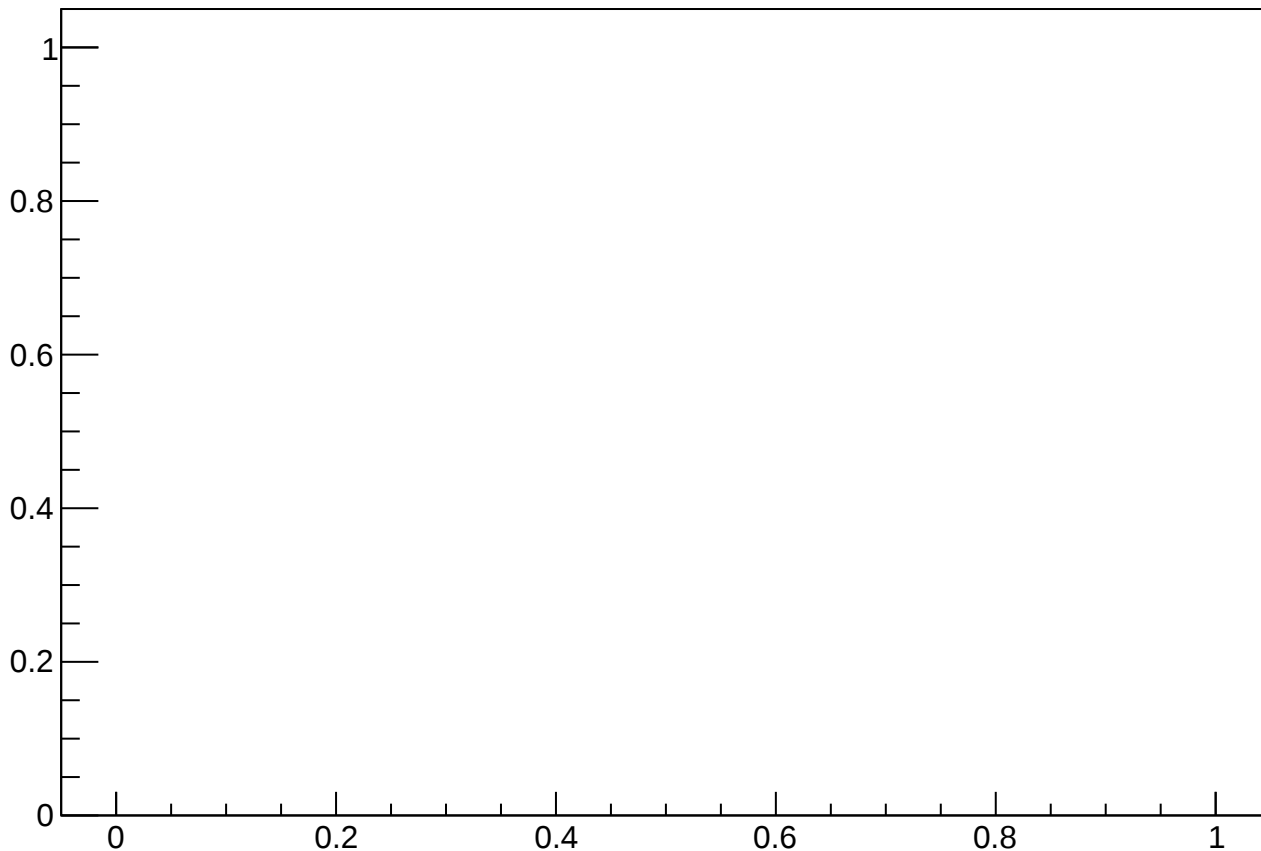
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

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

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

dit\_atr2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

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

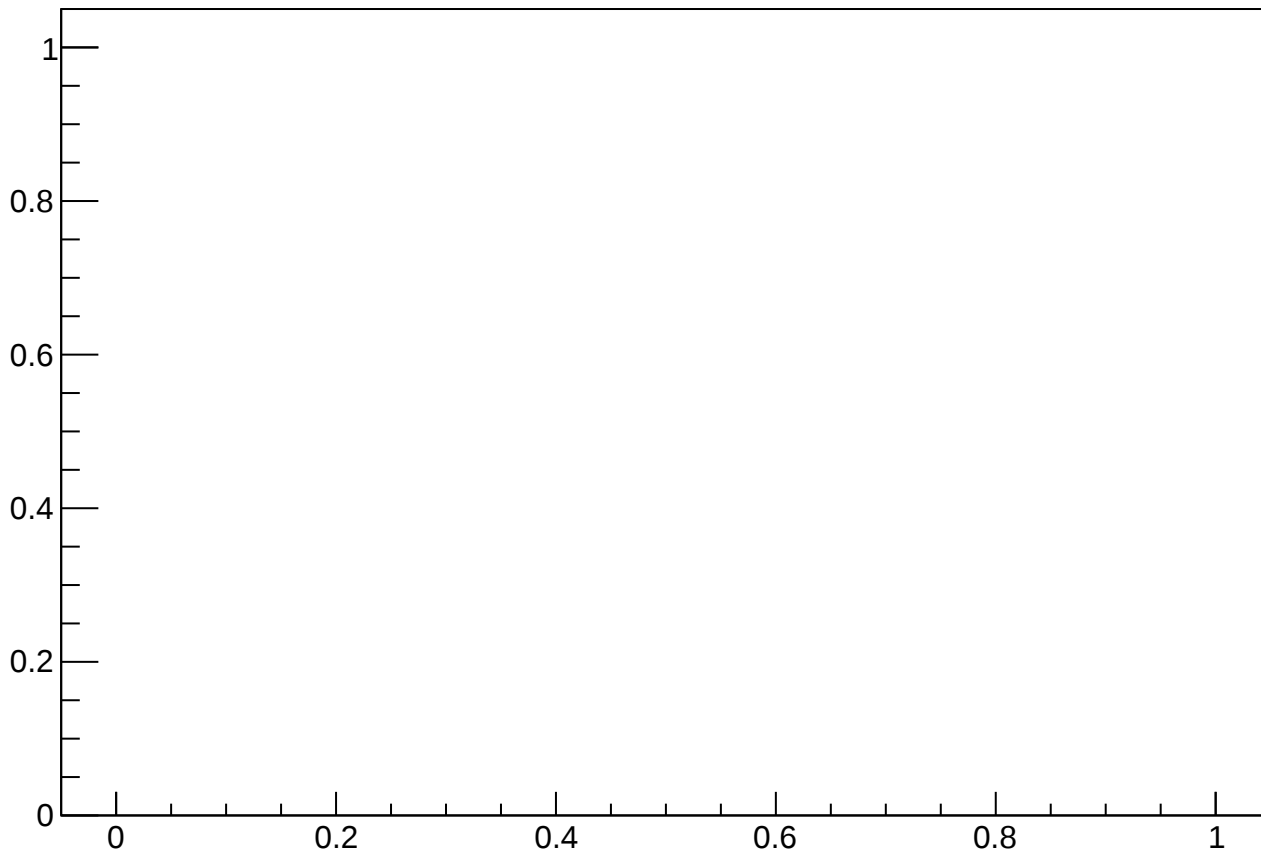
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

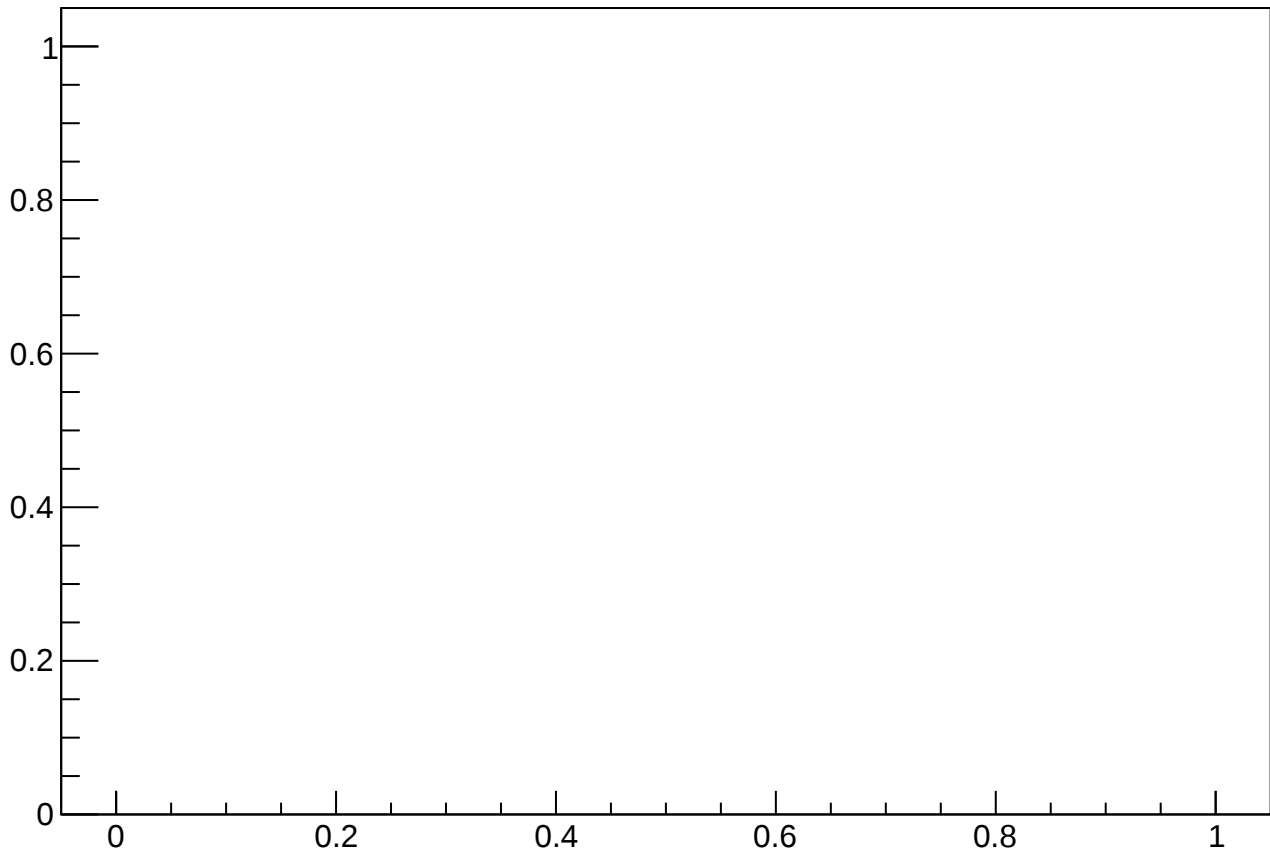
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

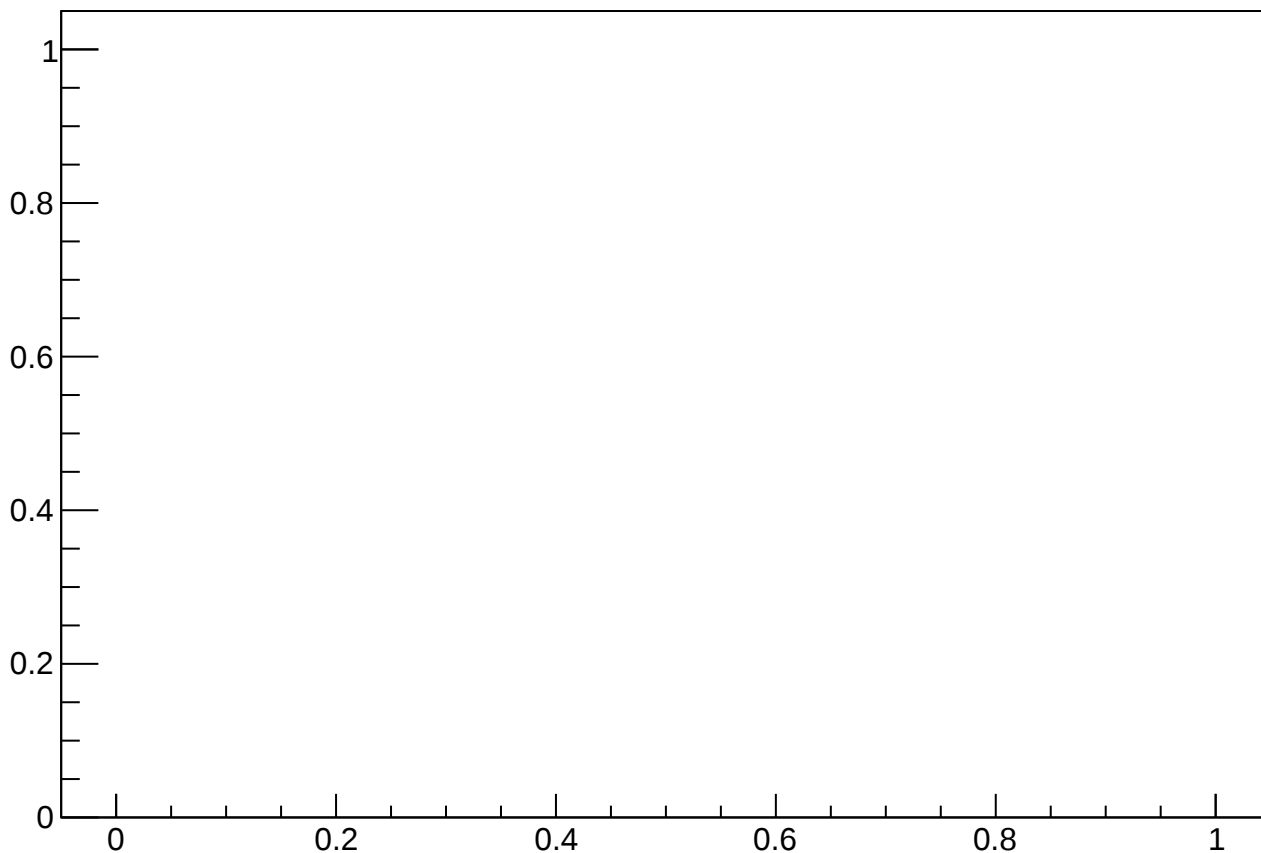
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

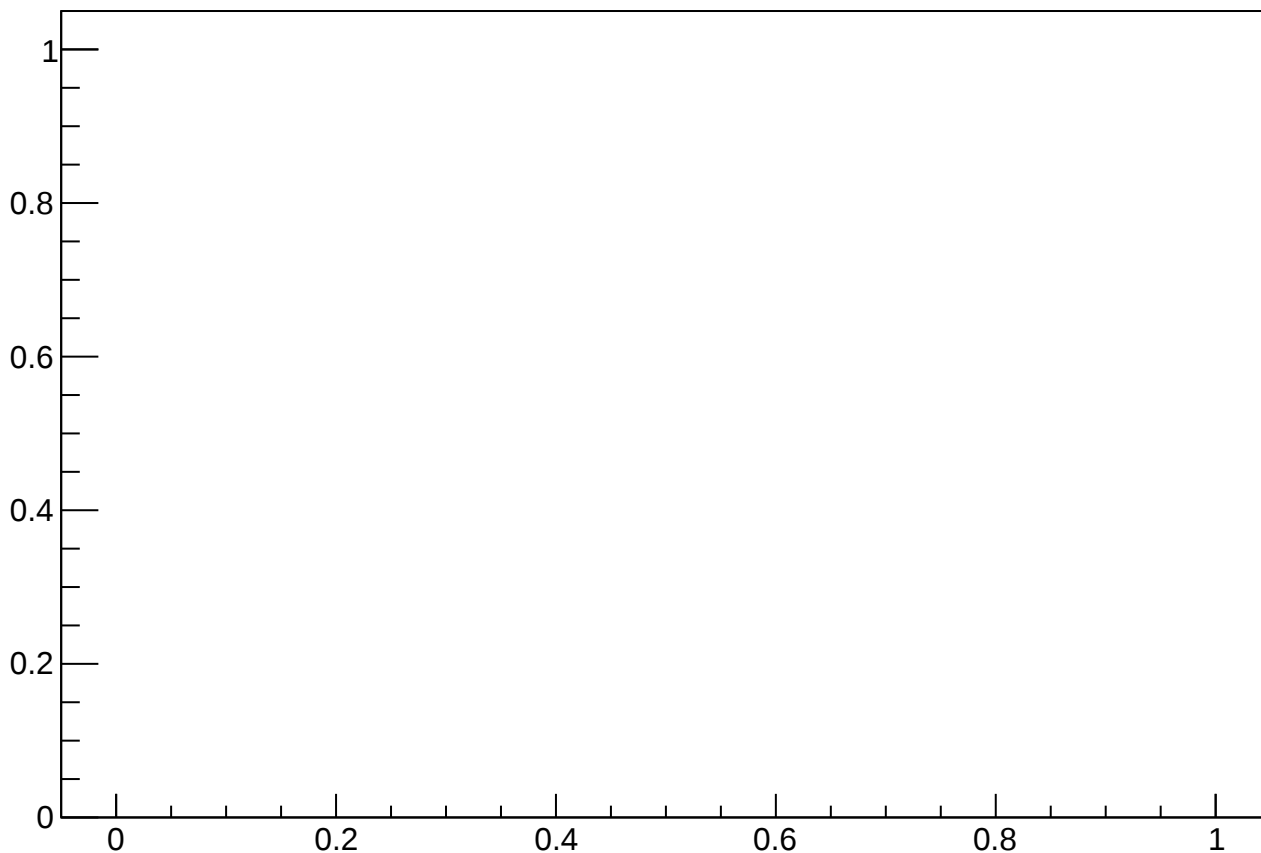
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

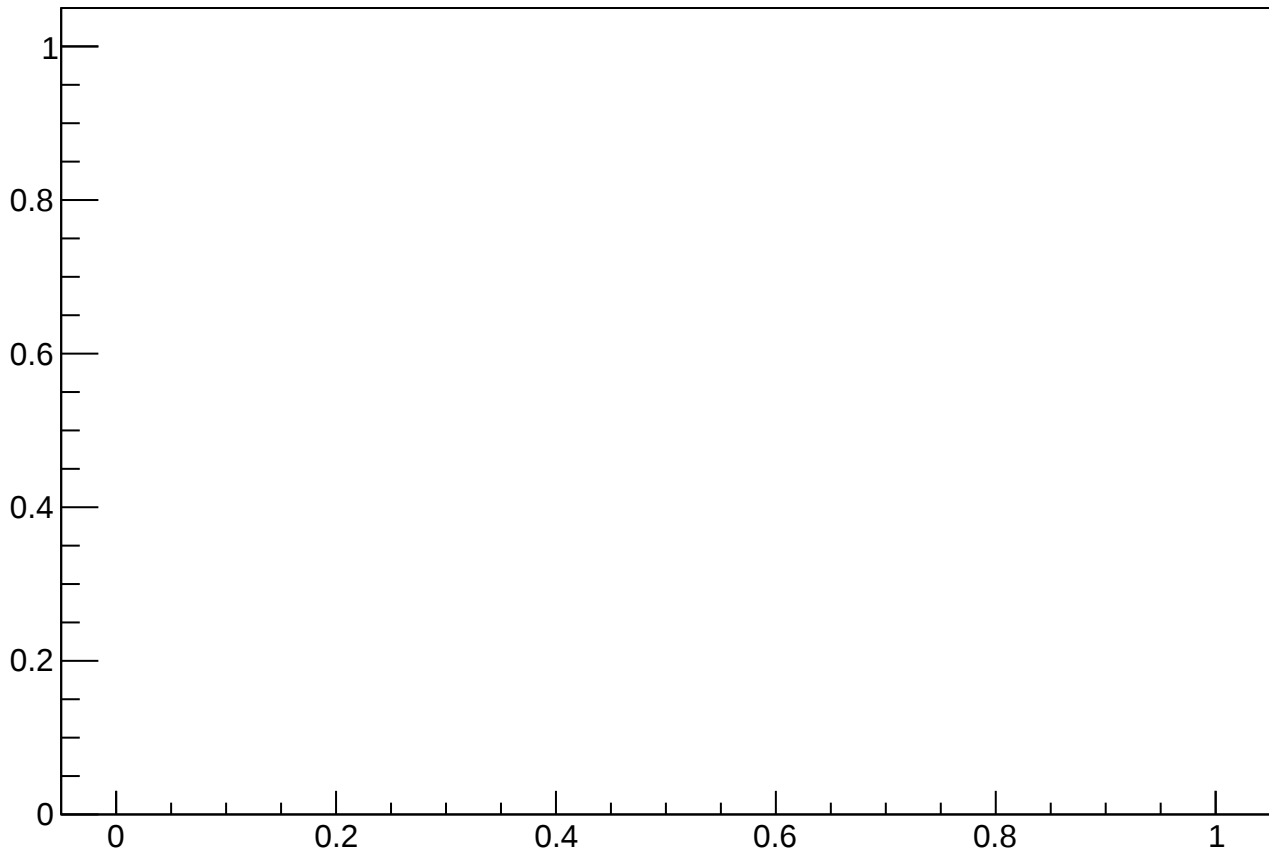
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

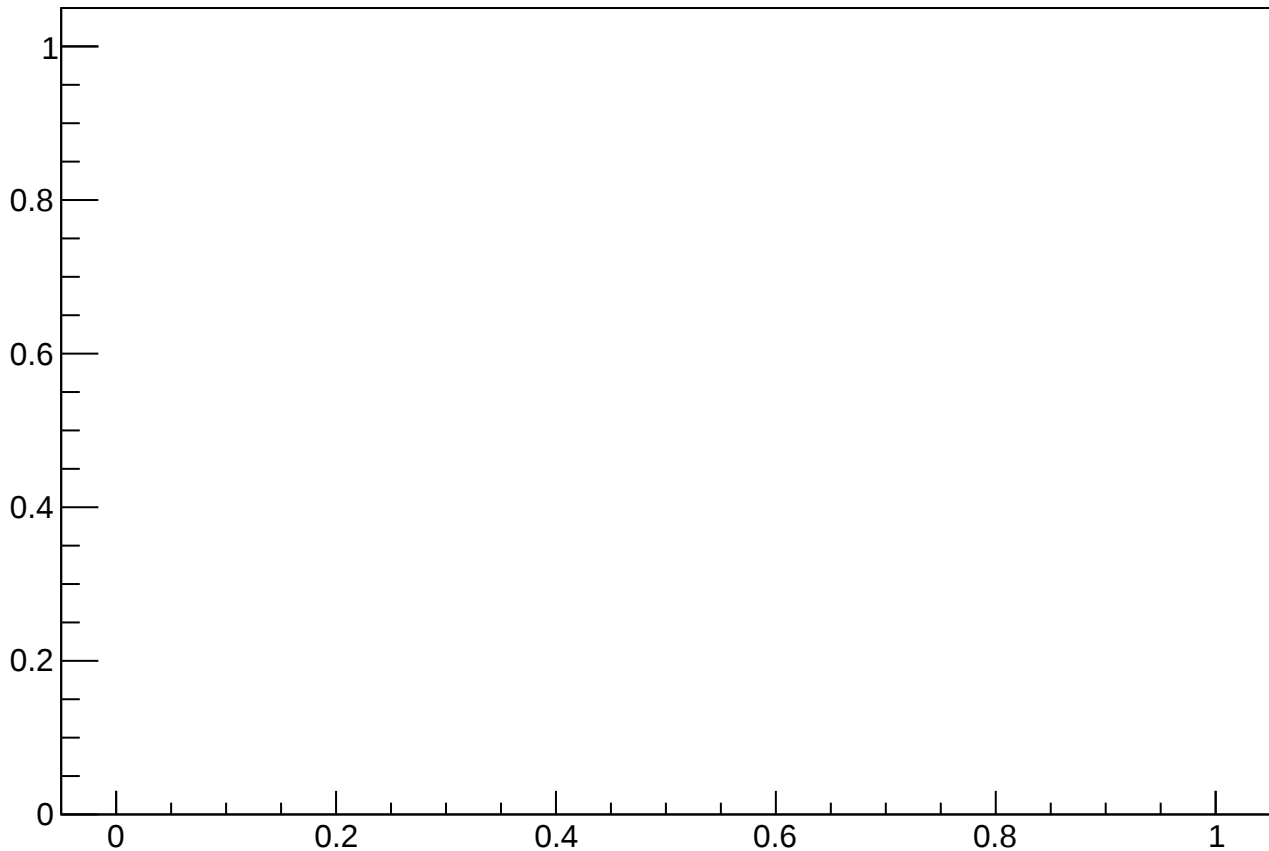
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

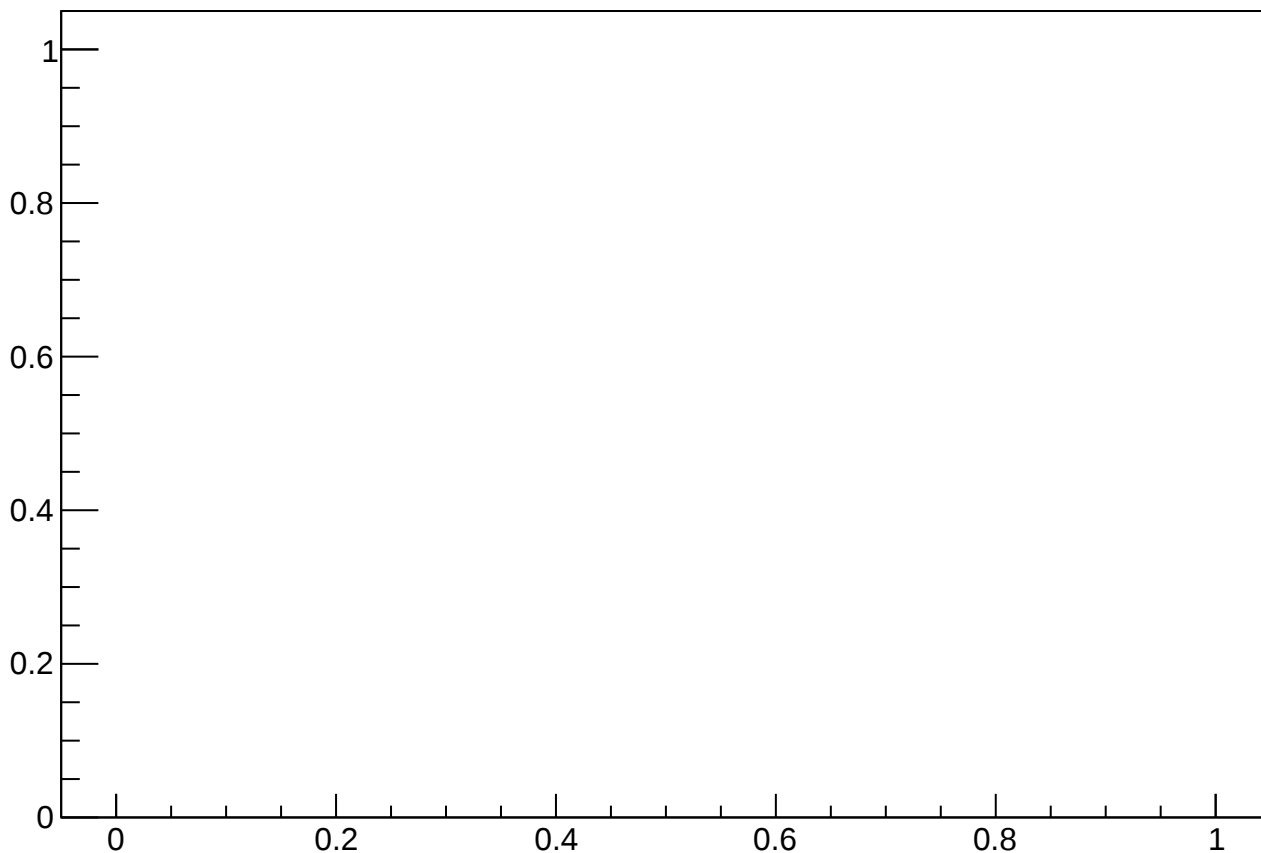
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

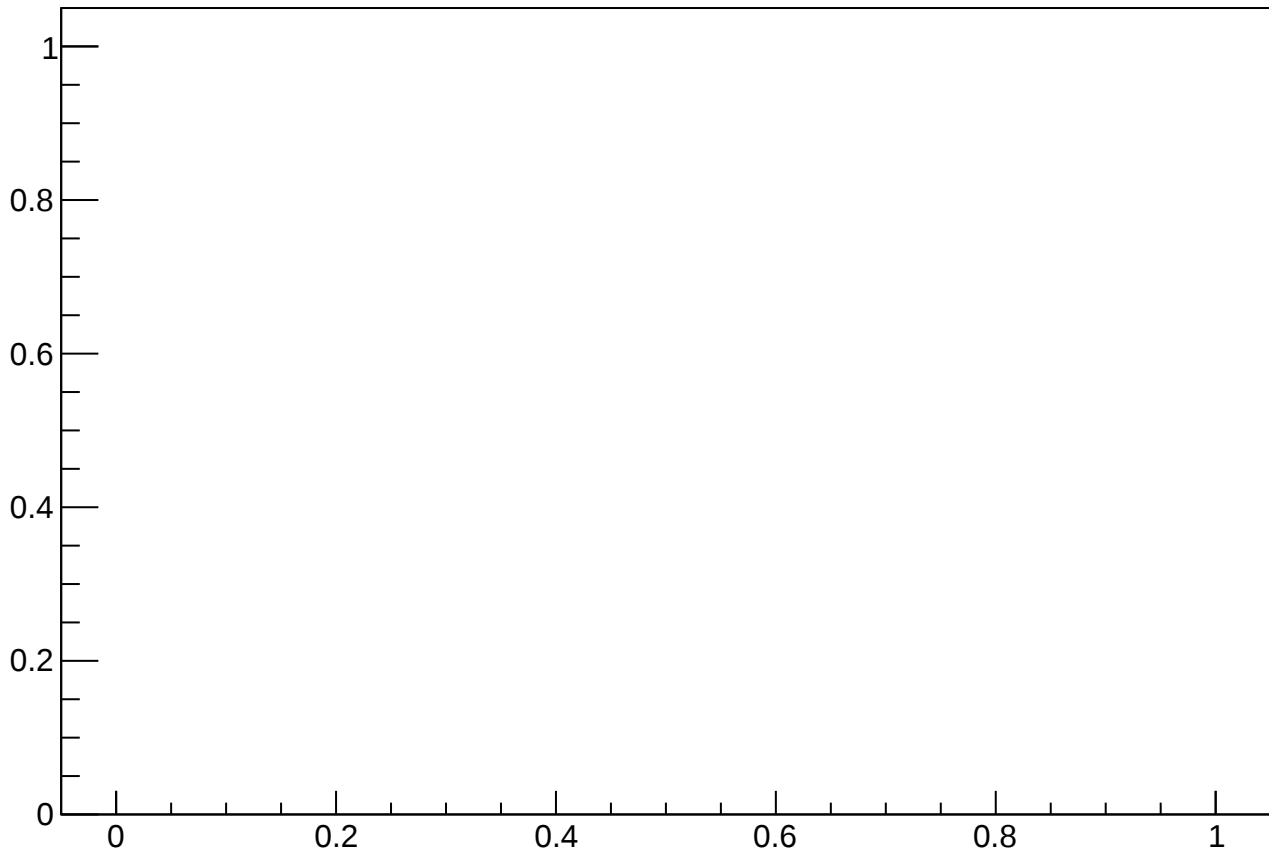
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

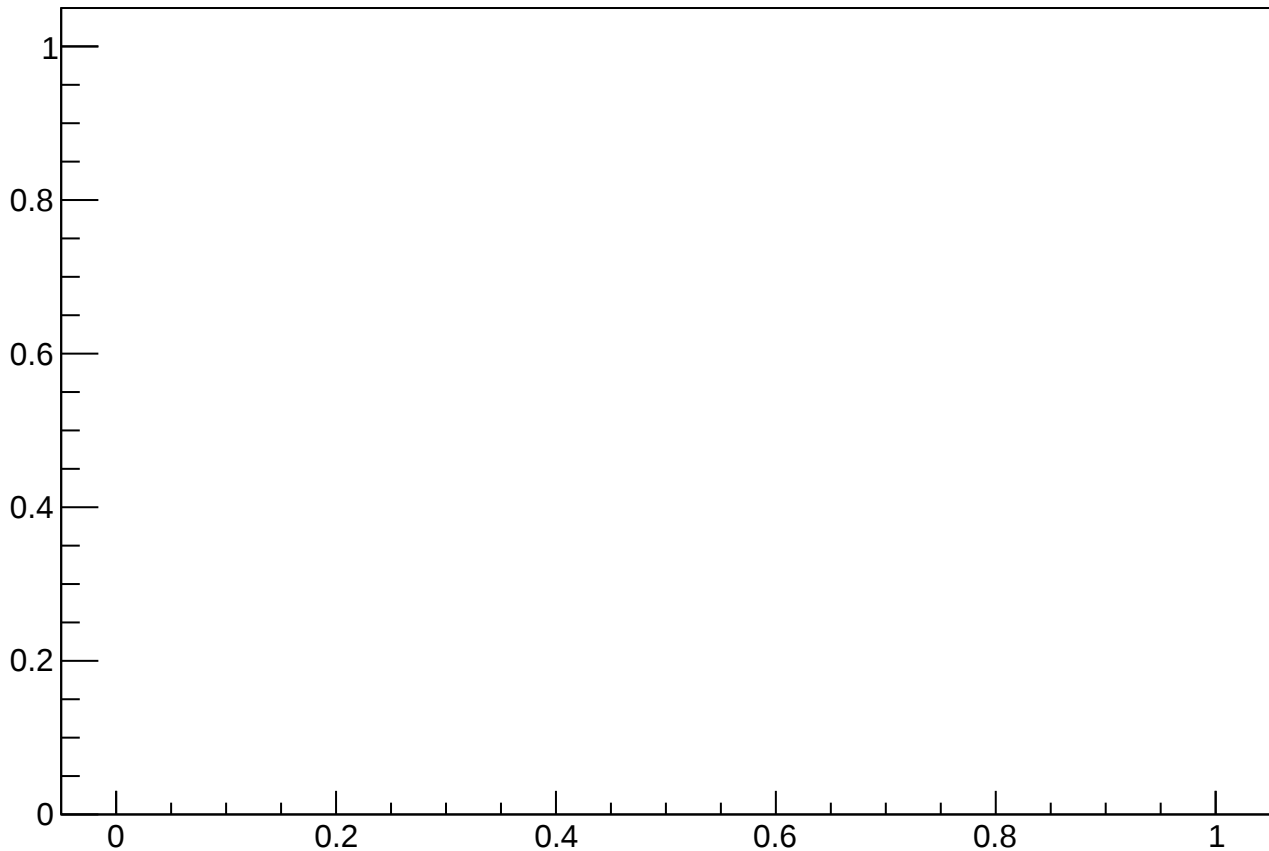
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

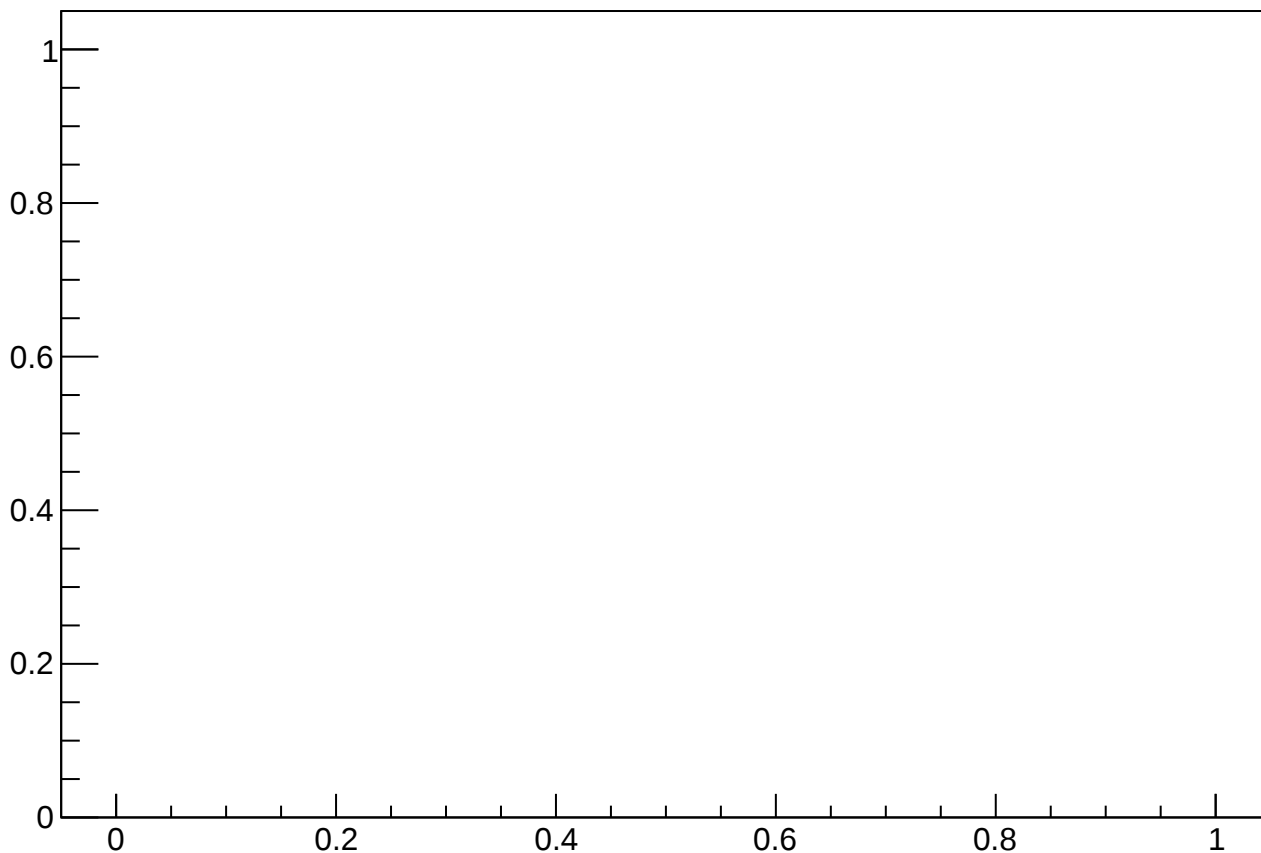
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

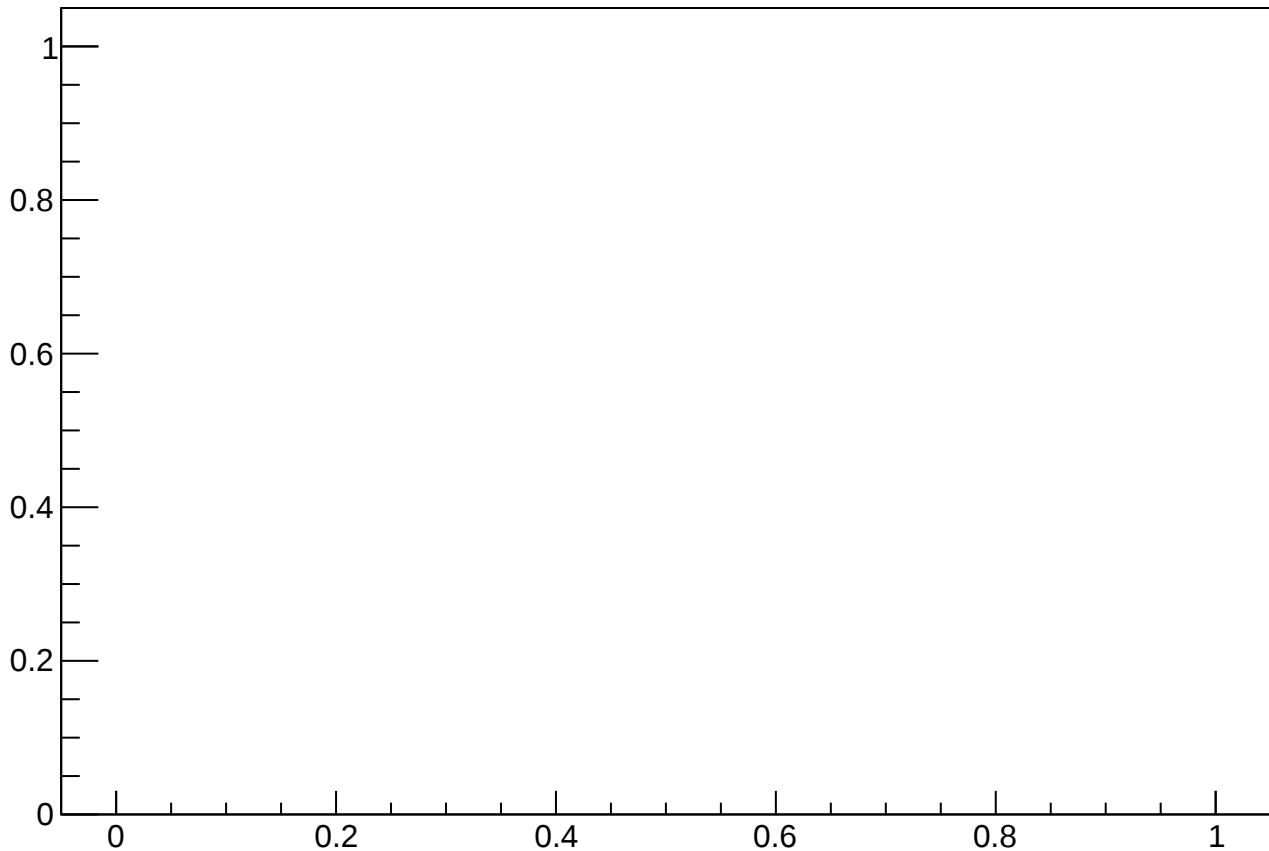
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

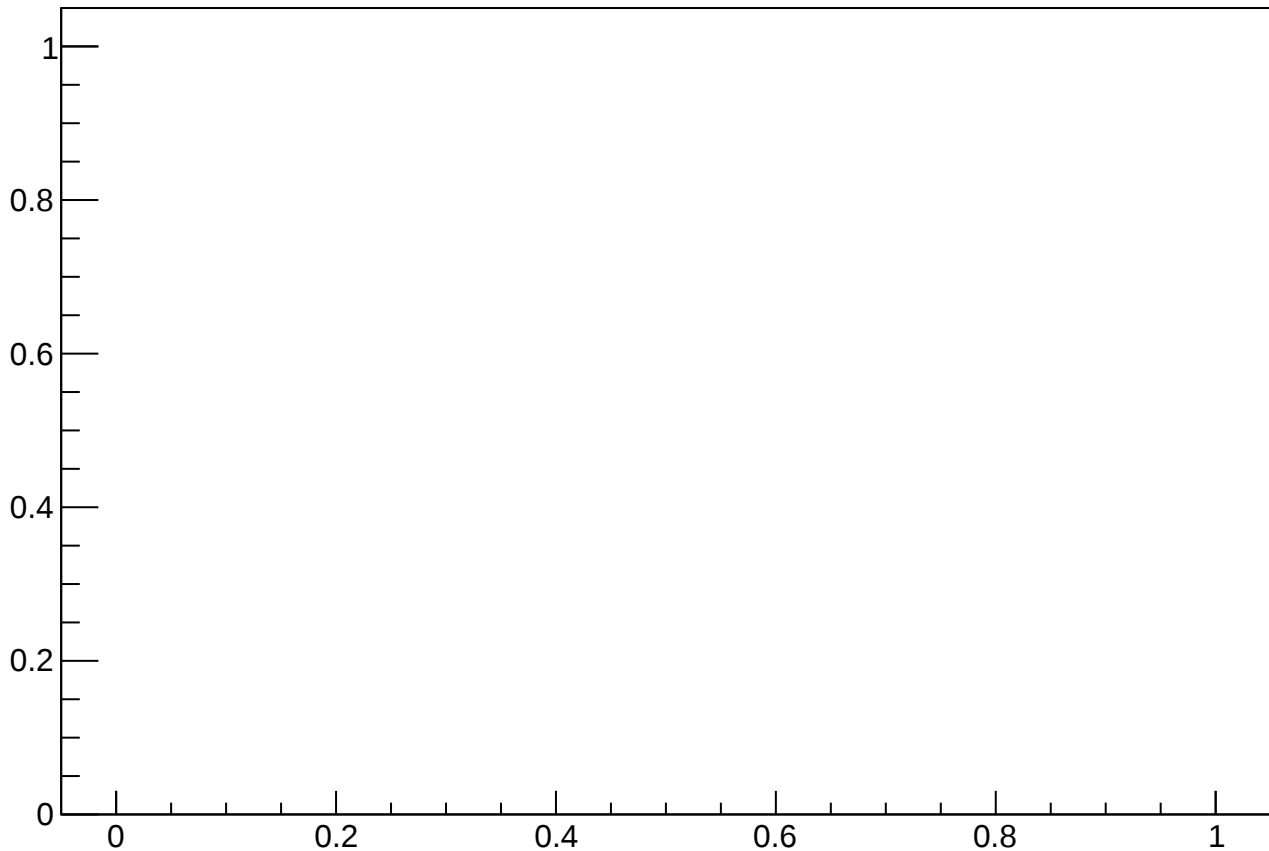
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

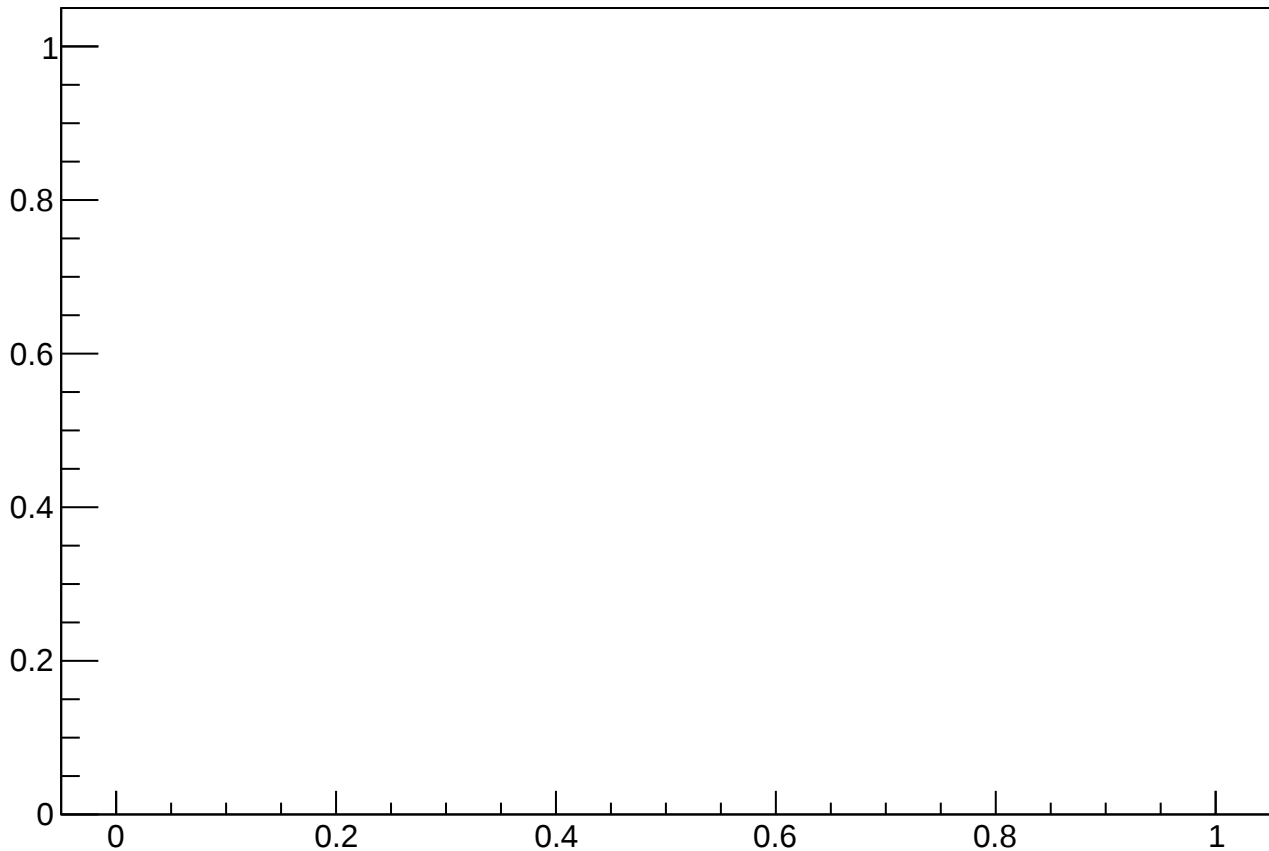
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

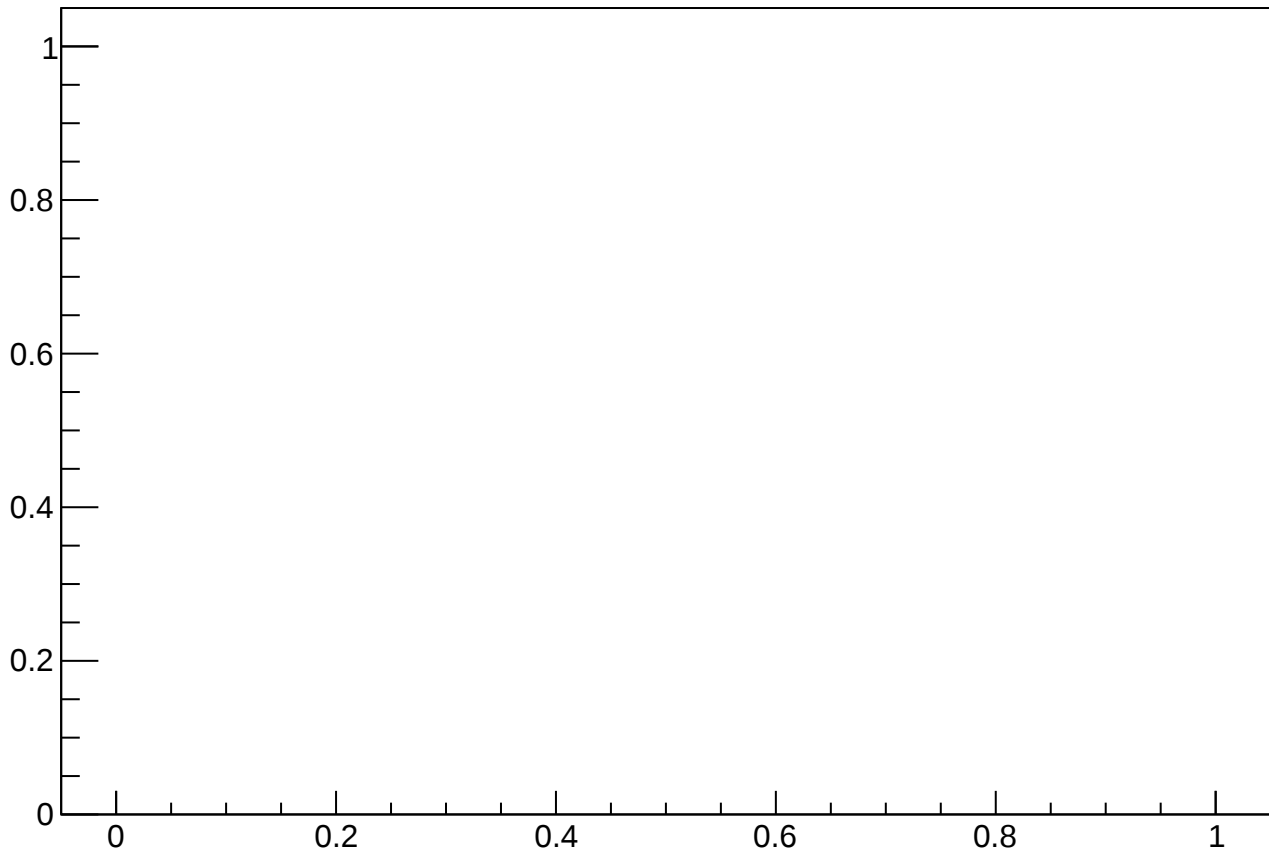
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

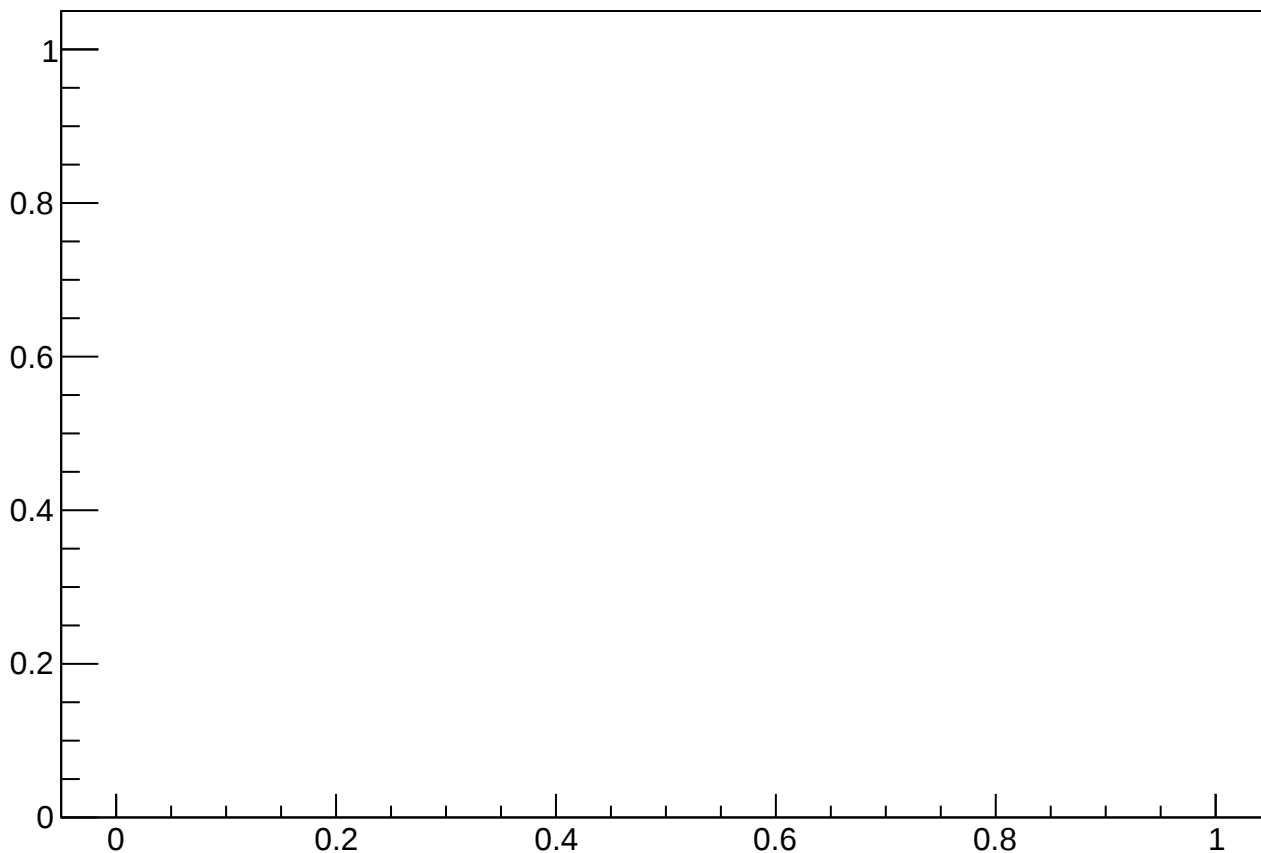
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

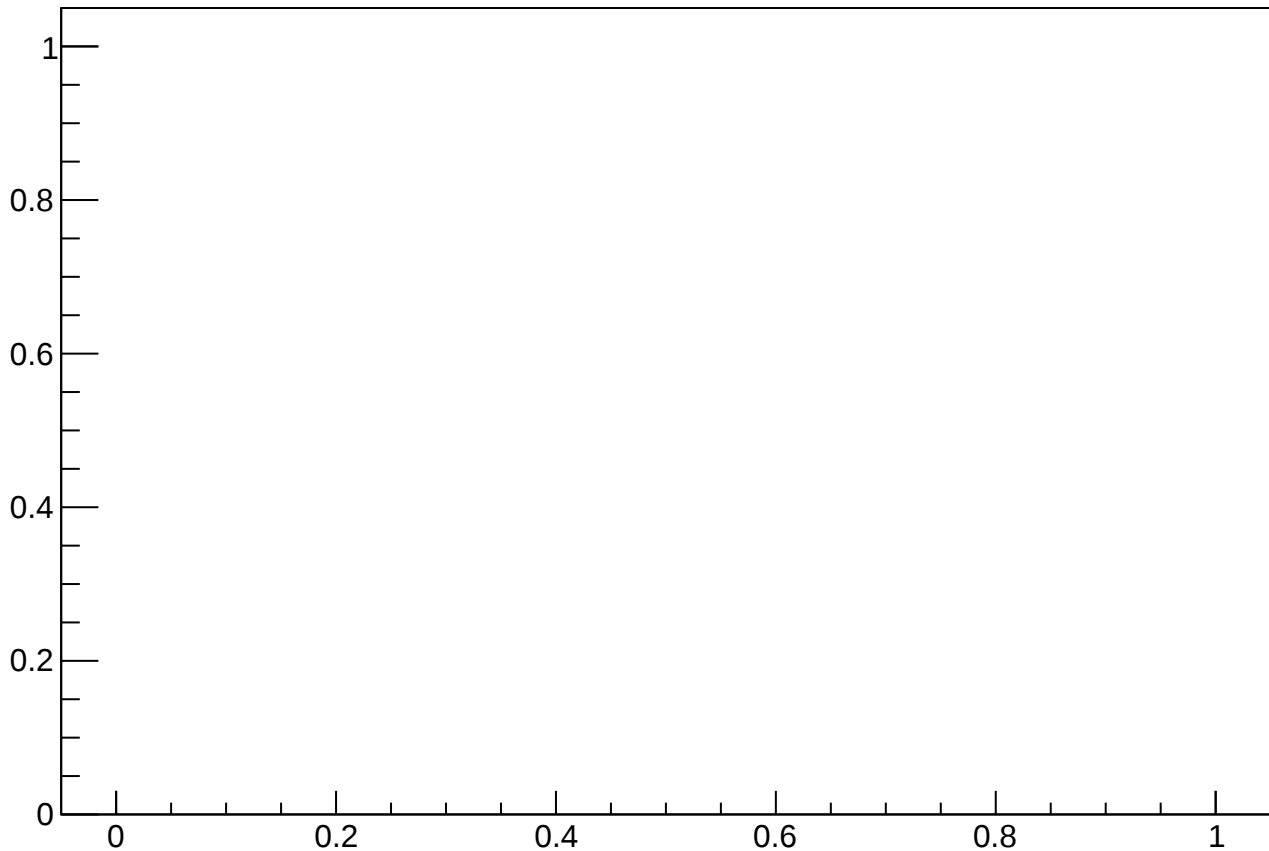
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

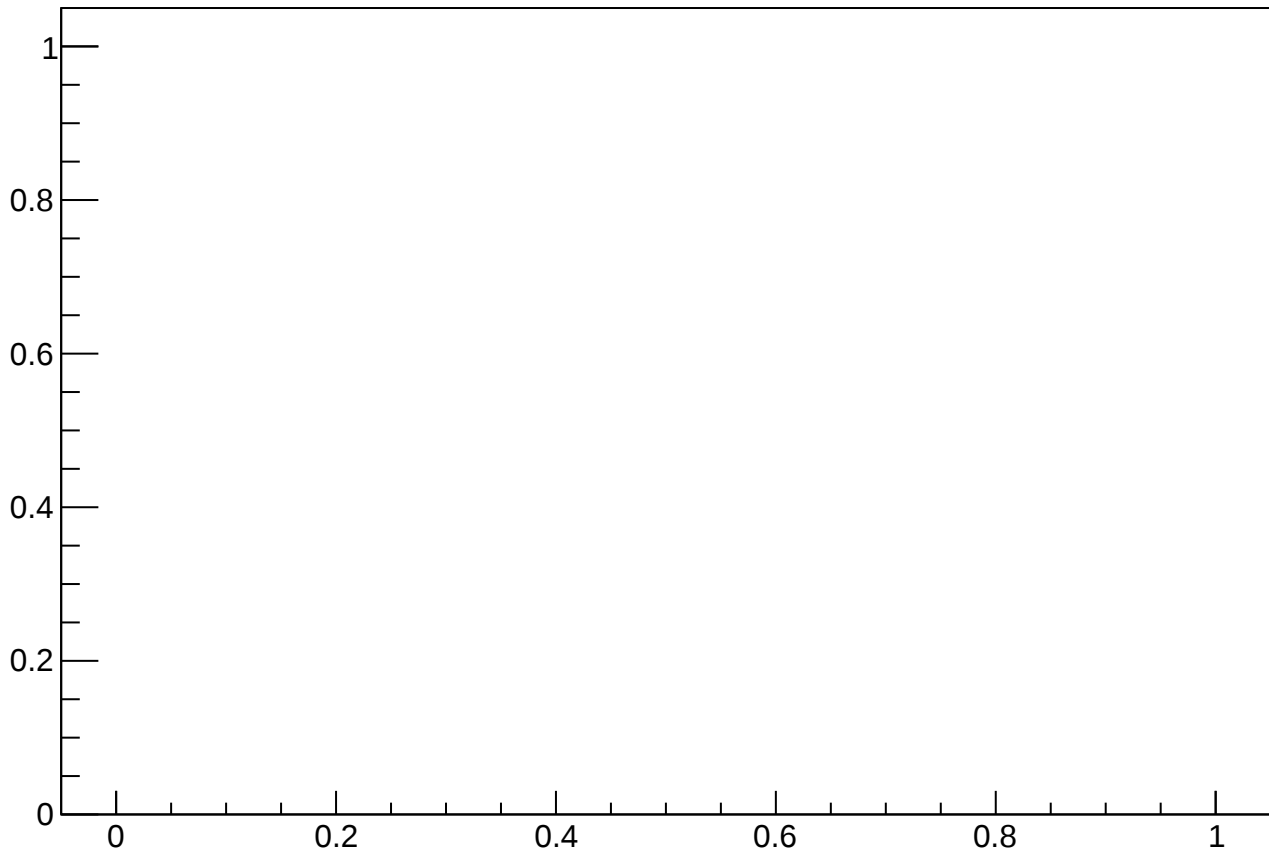
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

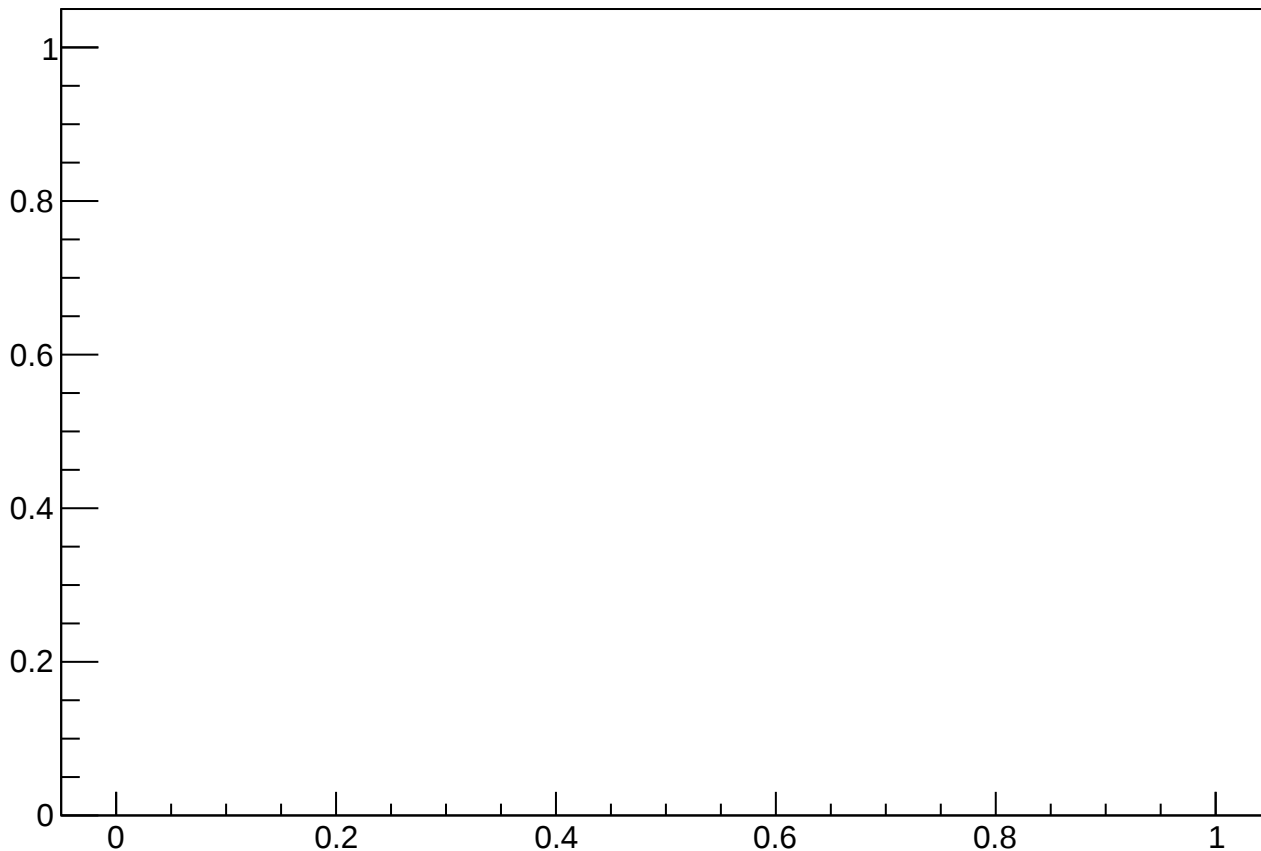
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil7\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

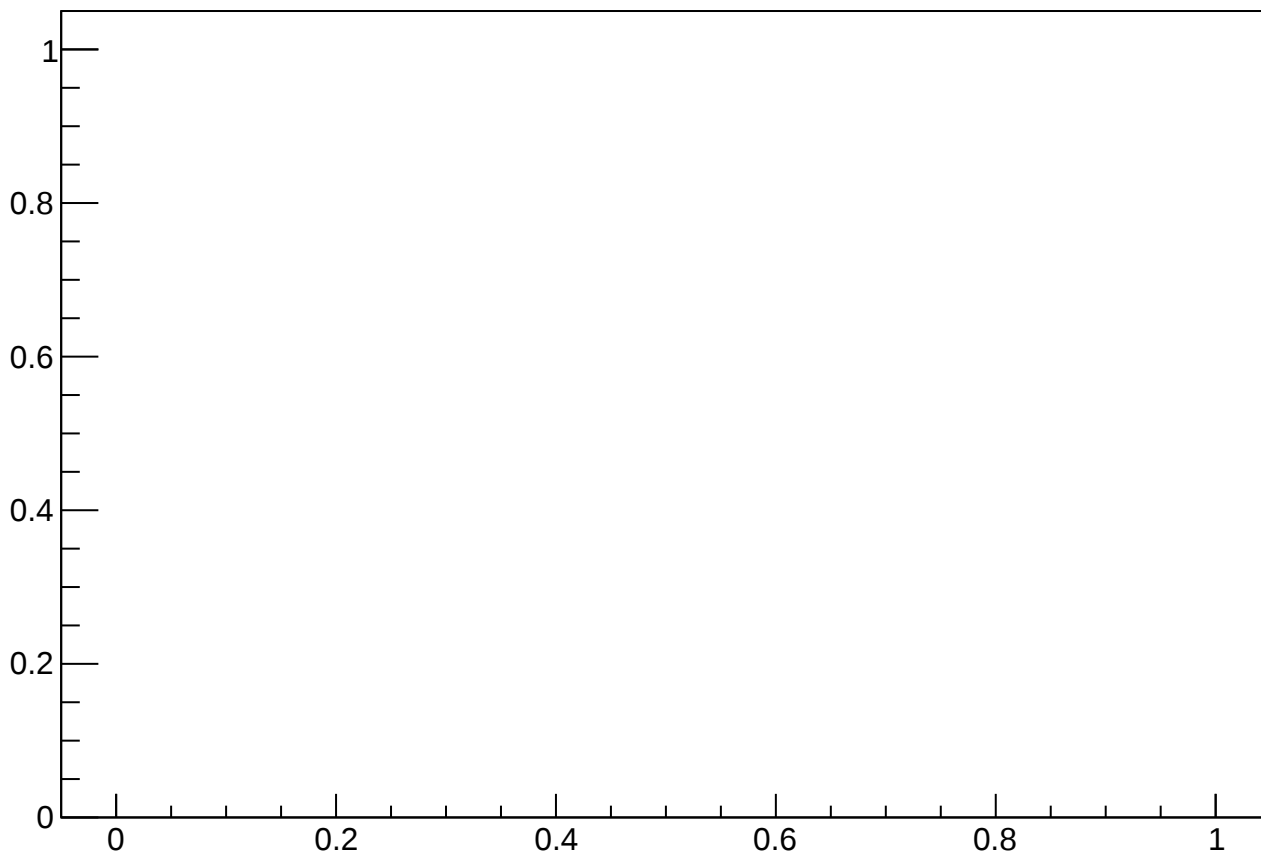
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam7\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

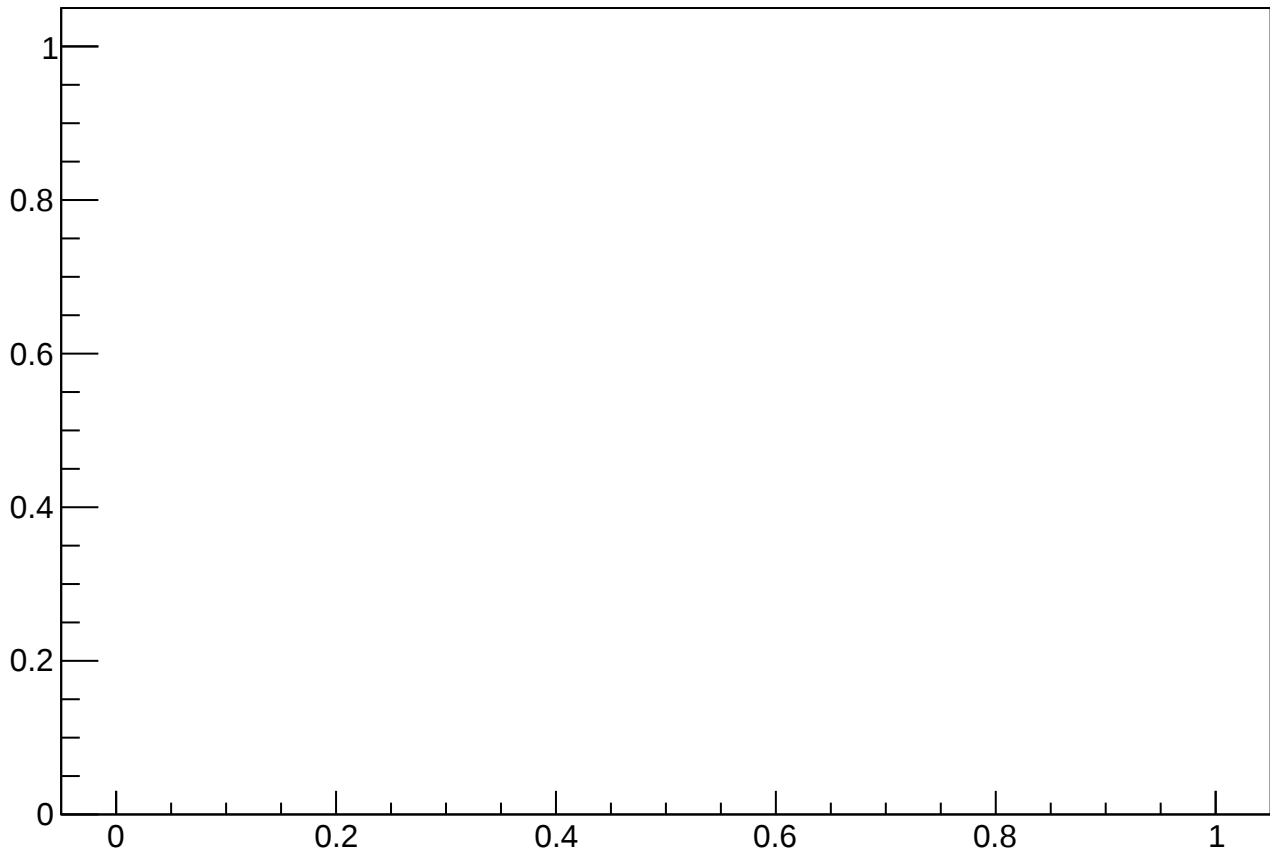
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

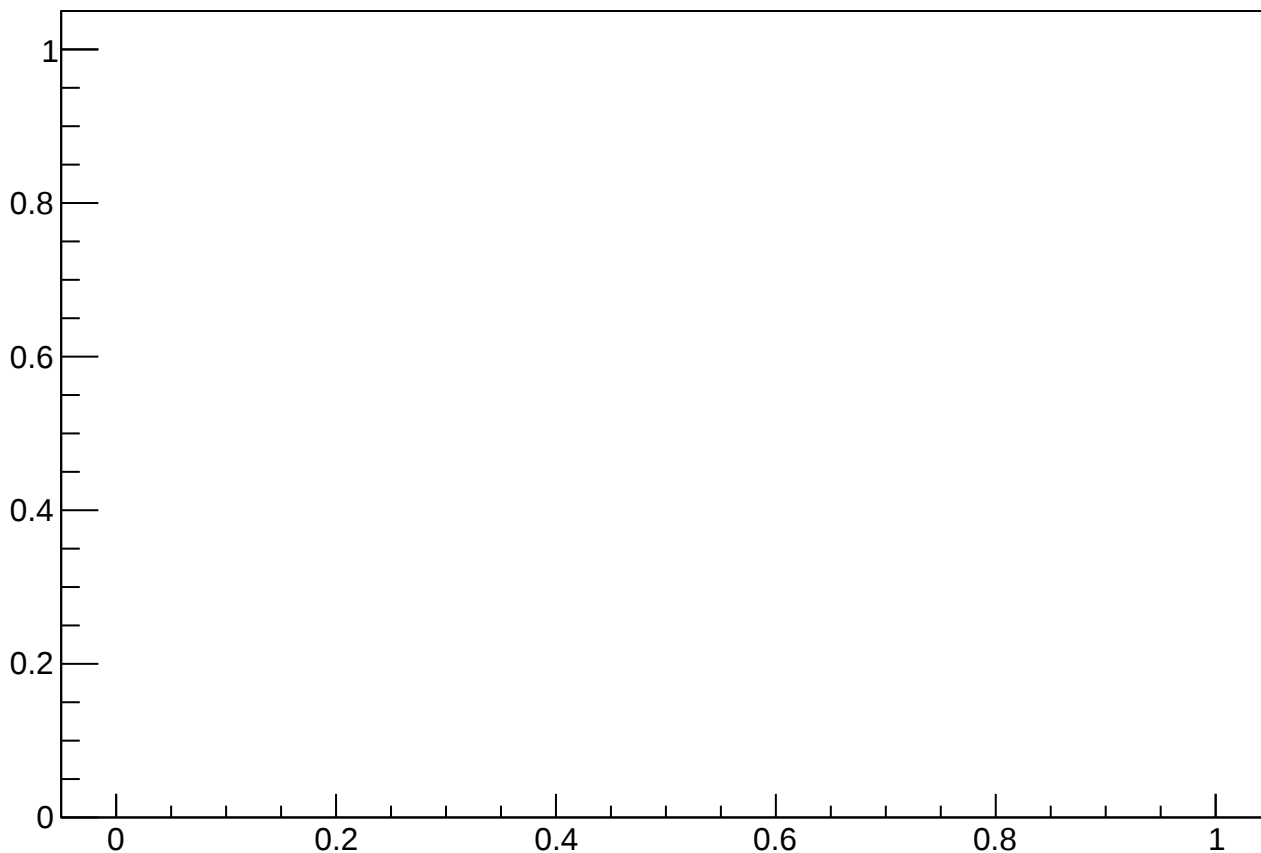
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

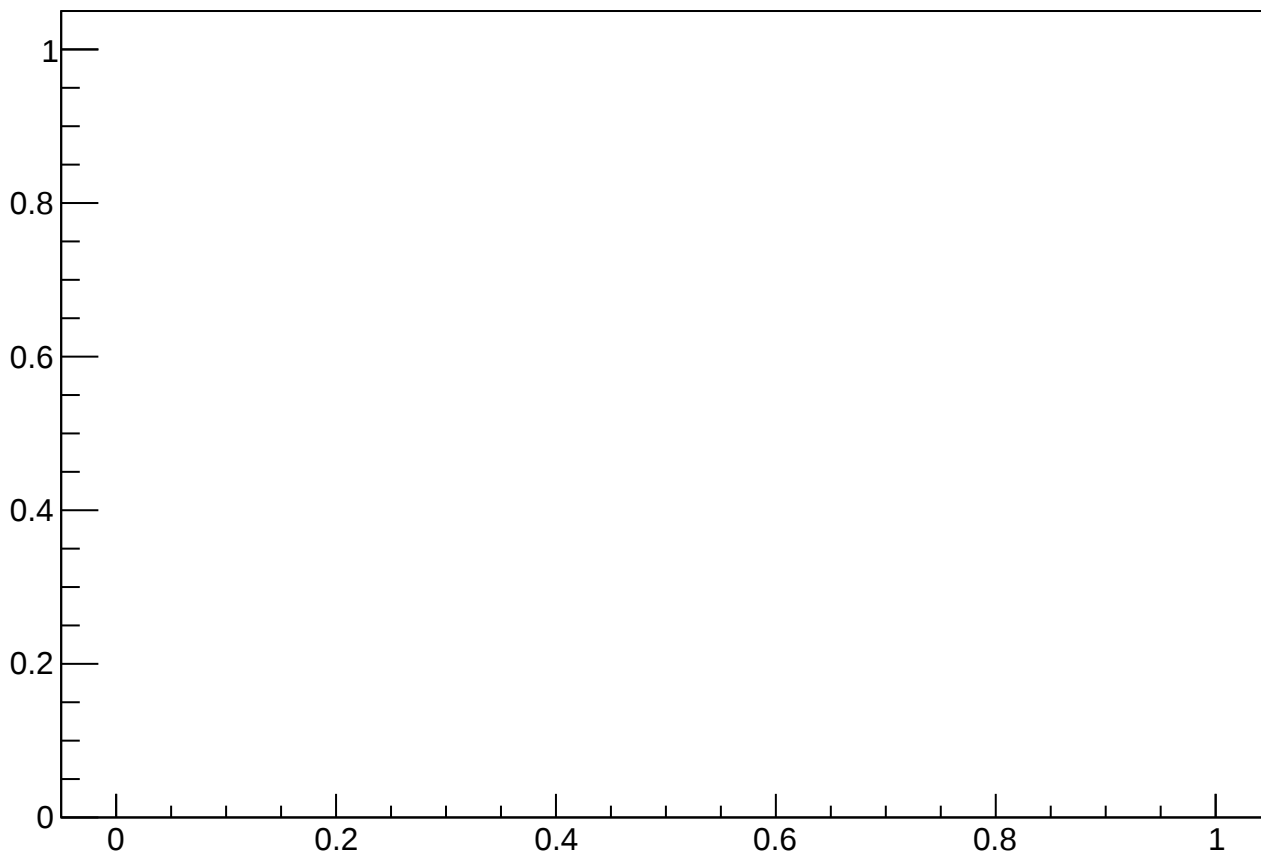
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil7\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

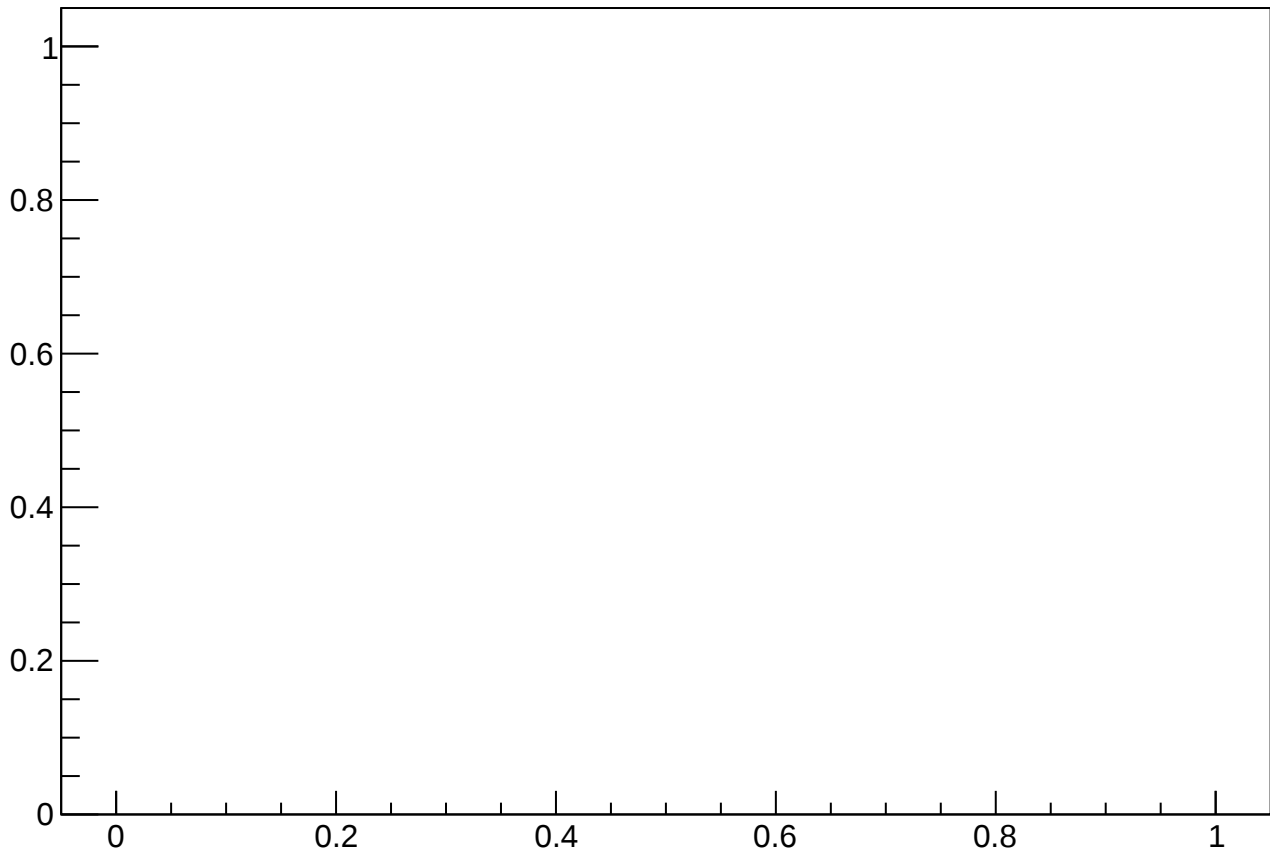
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil7\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

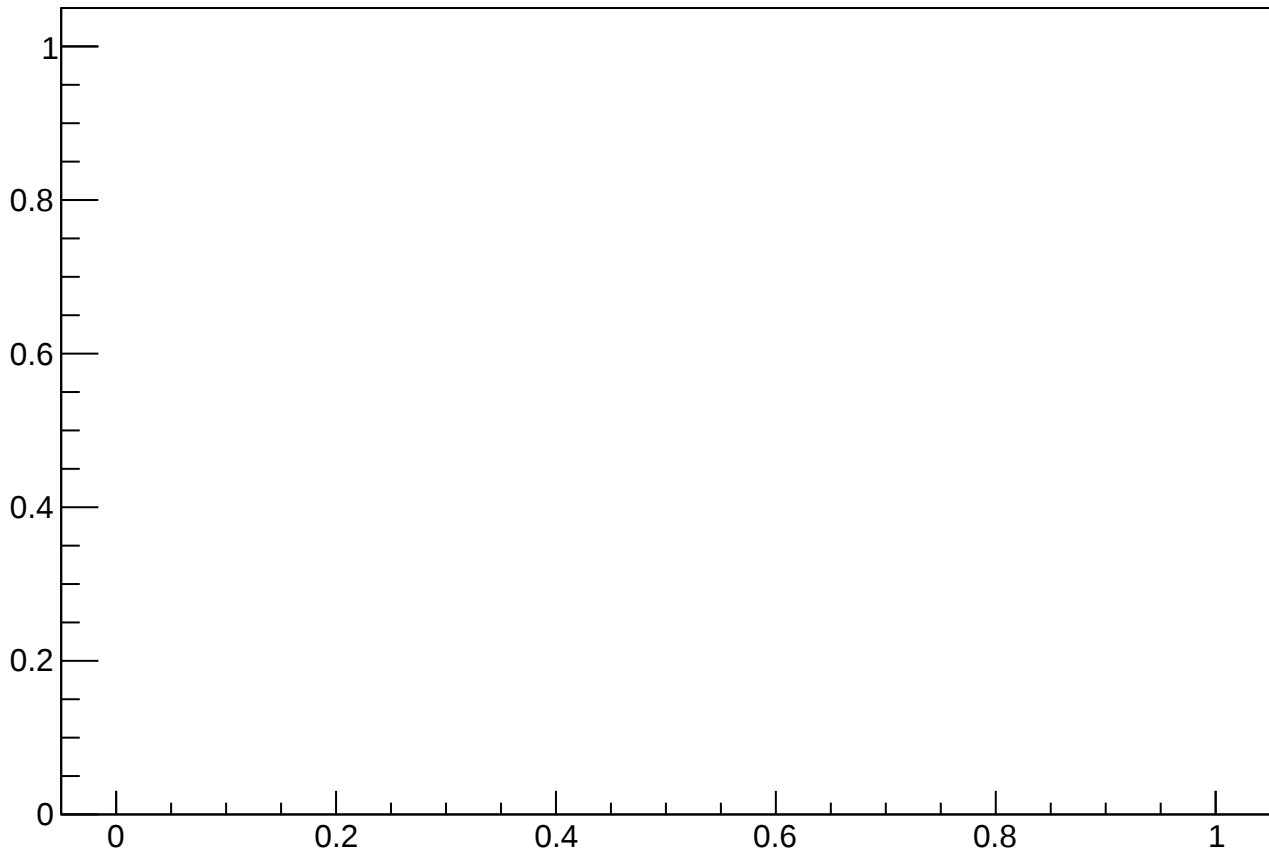
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil7\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

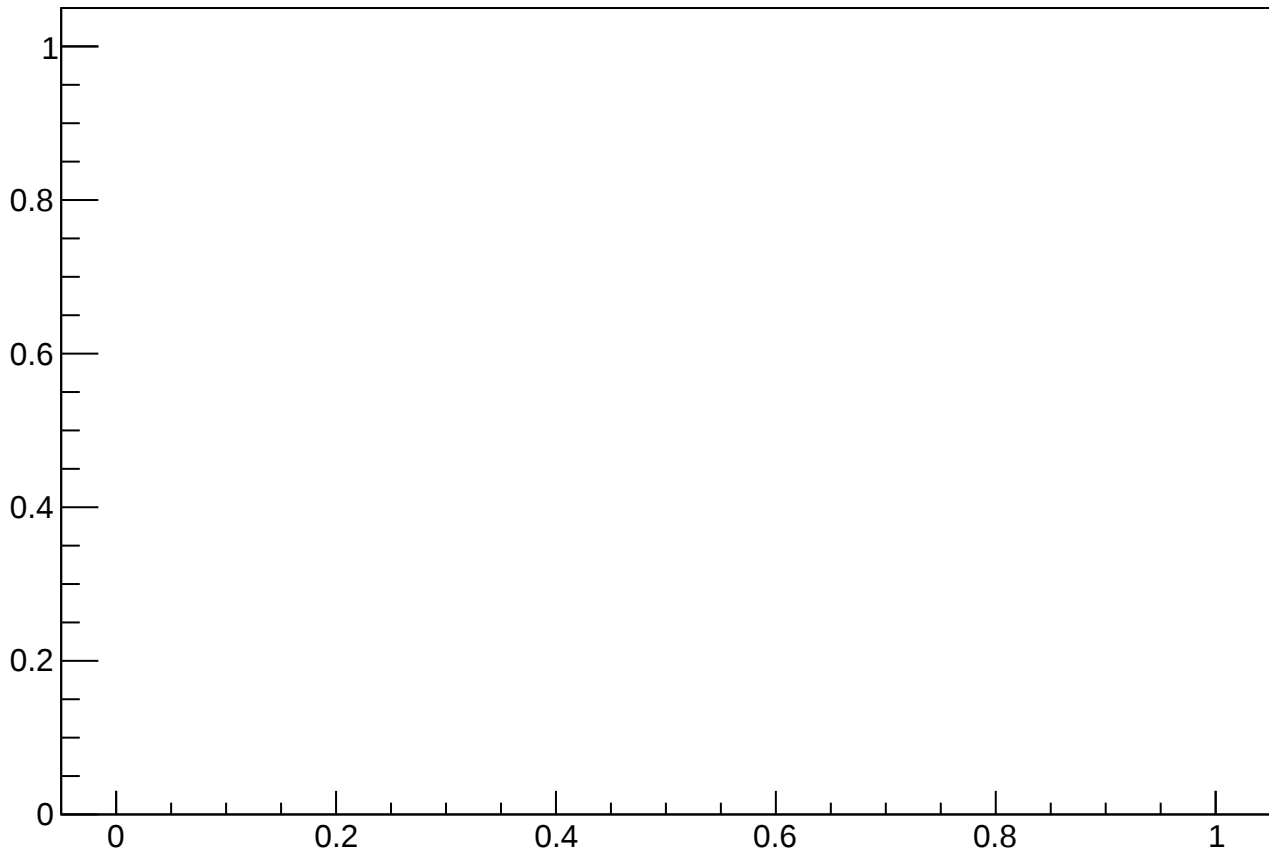
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

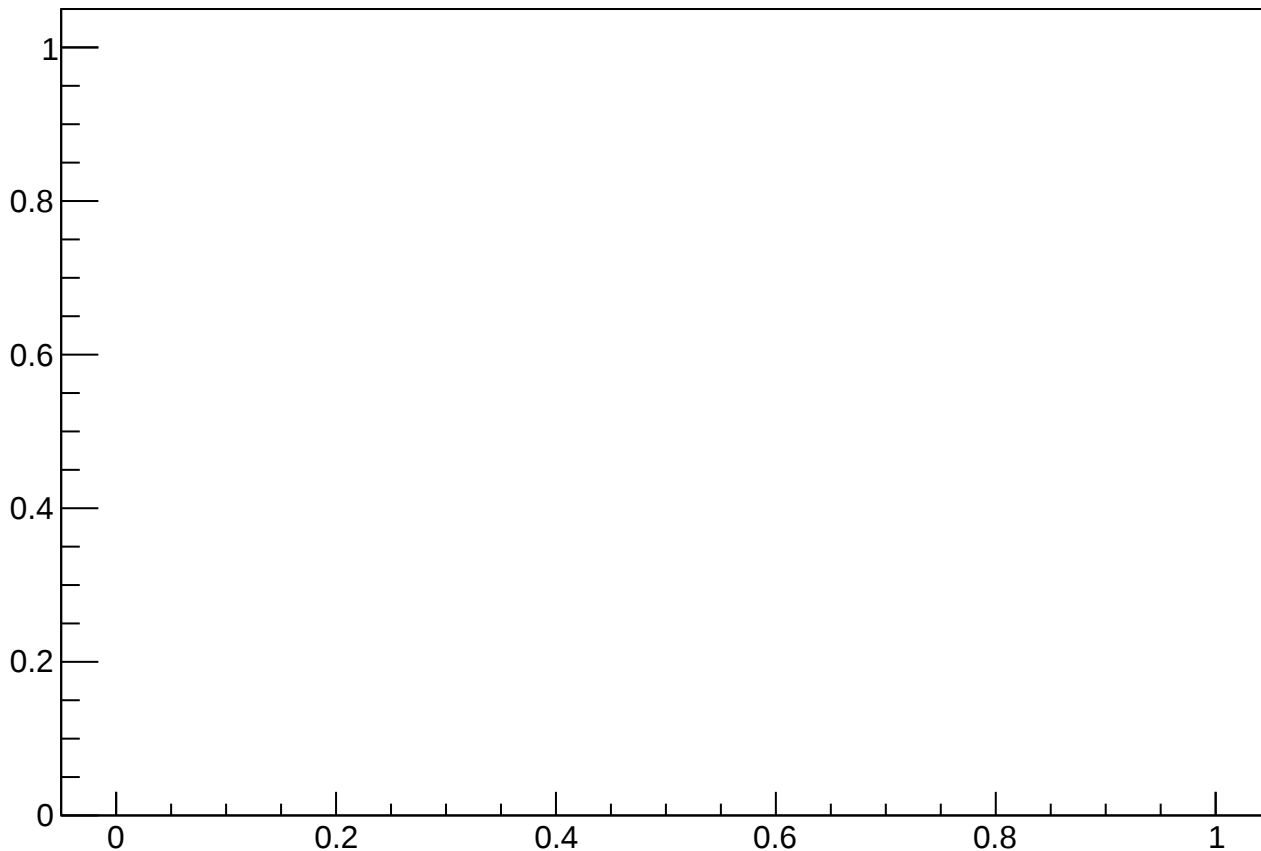
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

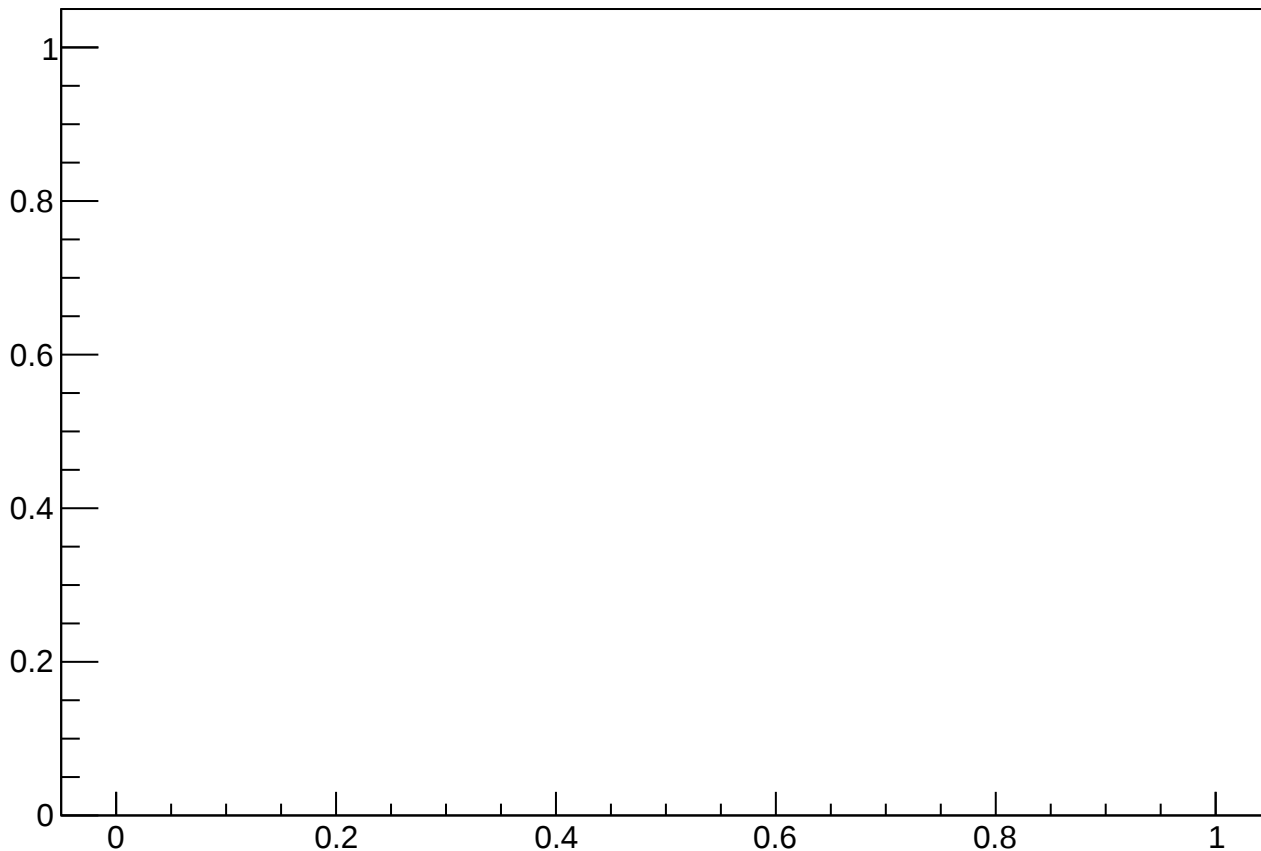
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

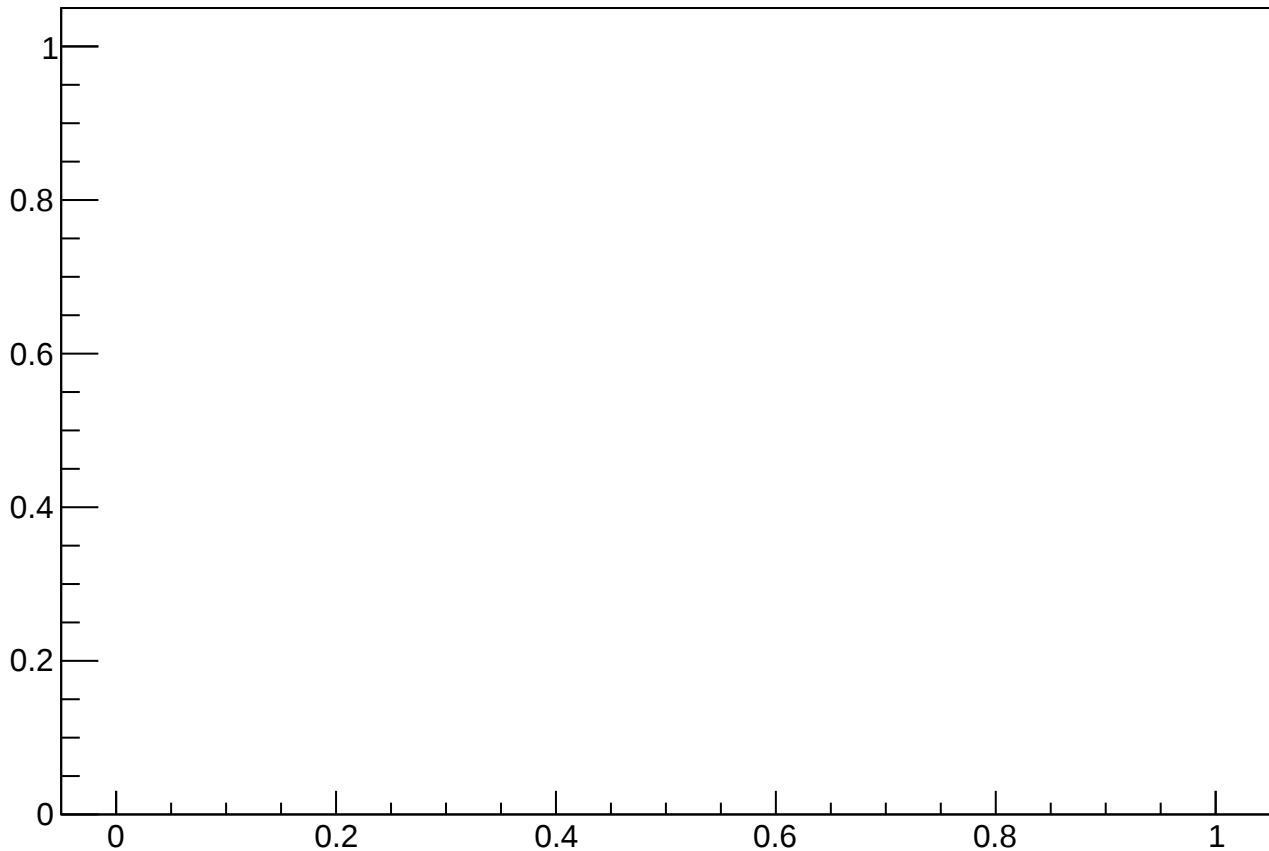
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_4eX\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

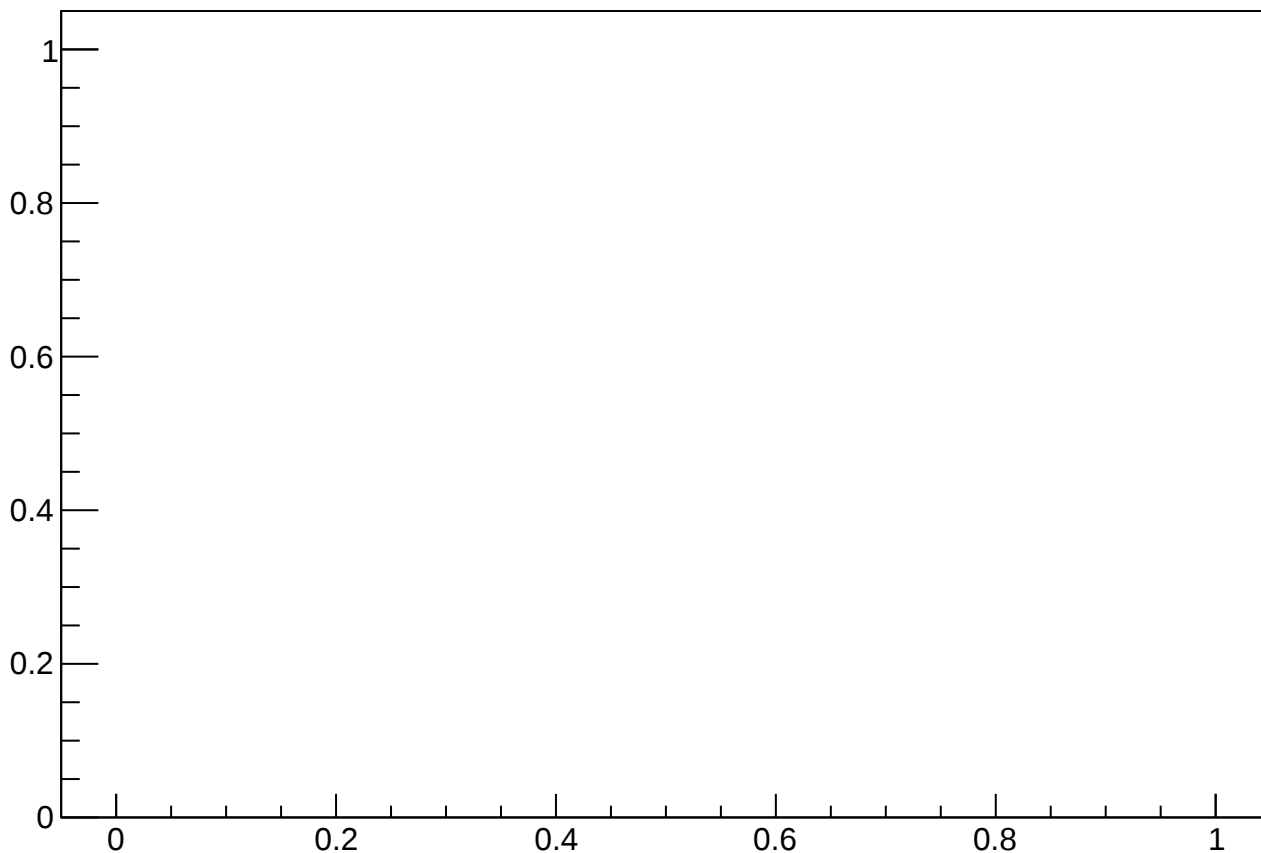
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

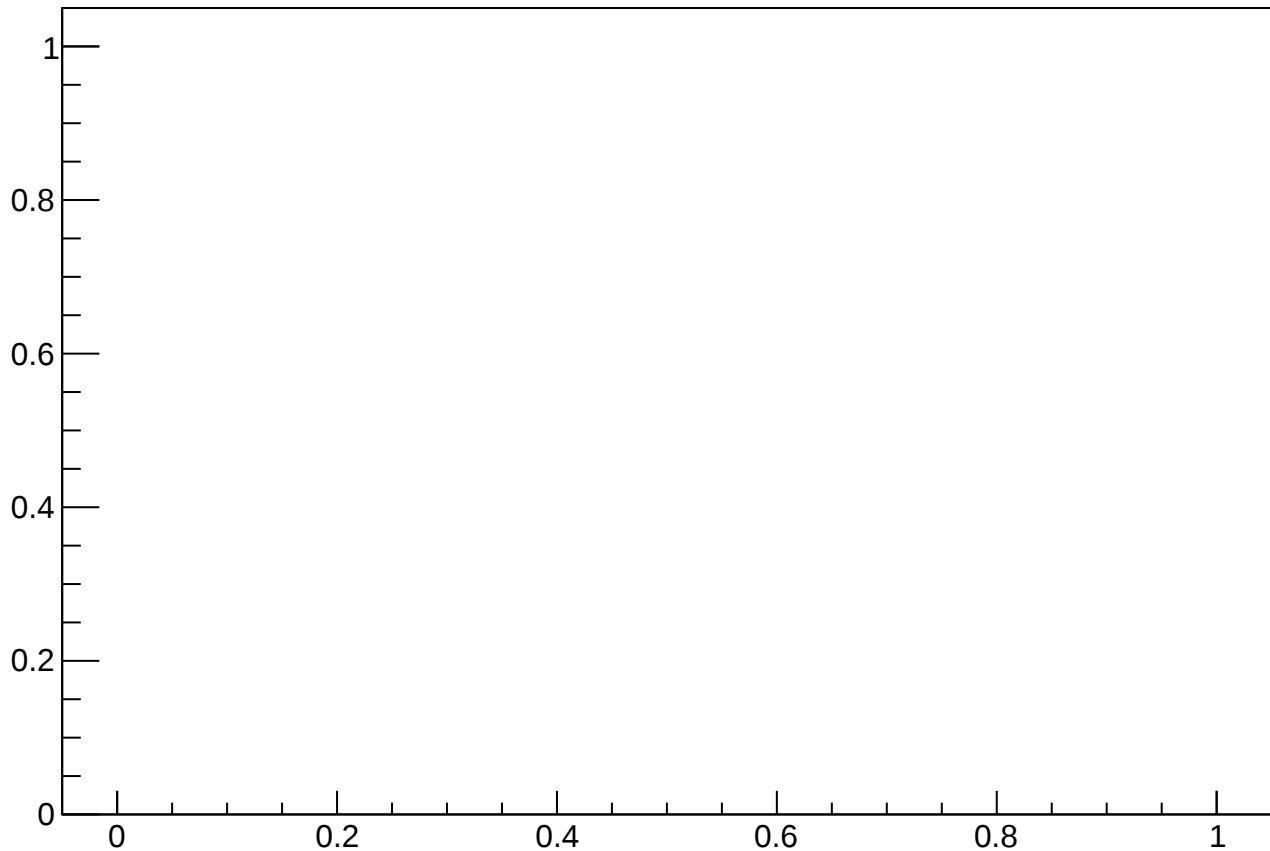
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eX\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

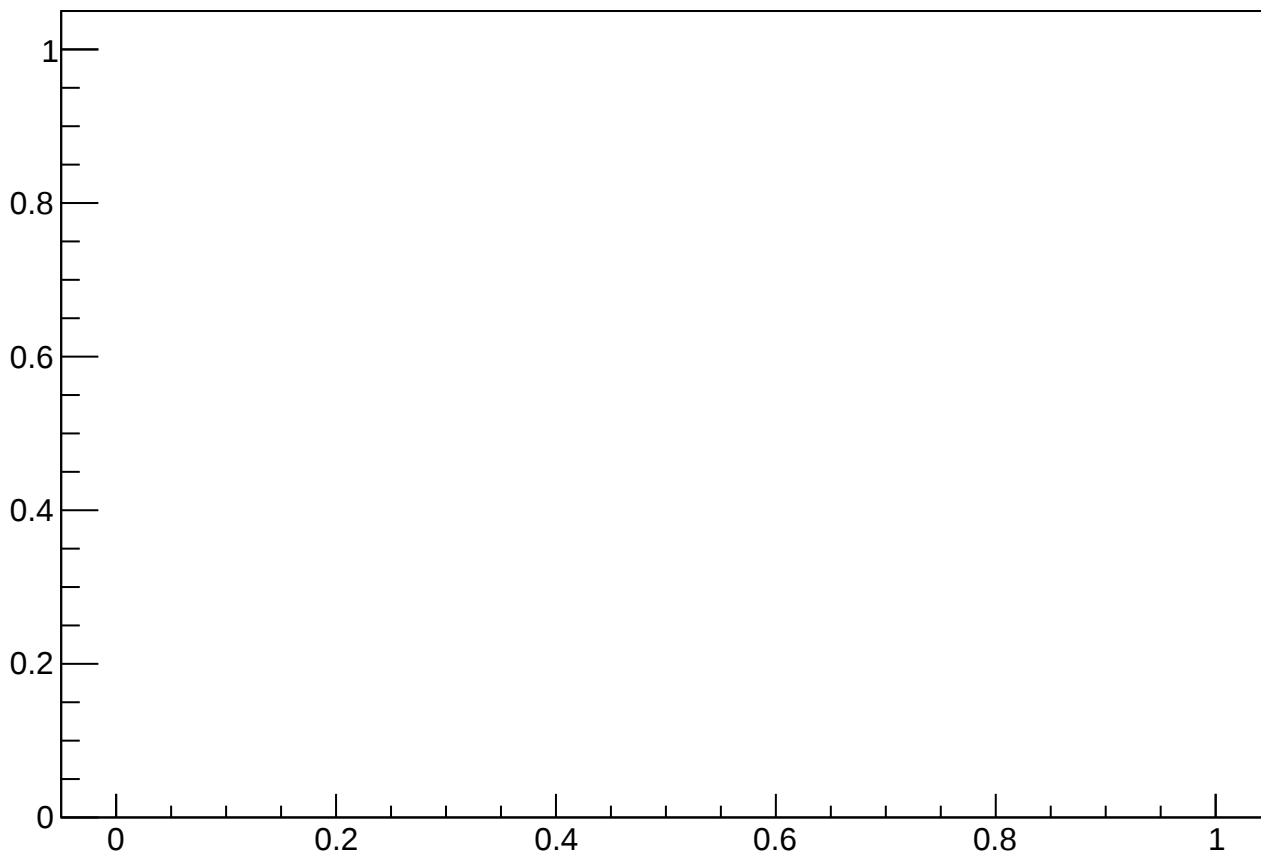
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_11X12X\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

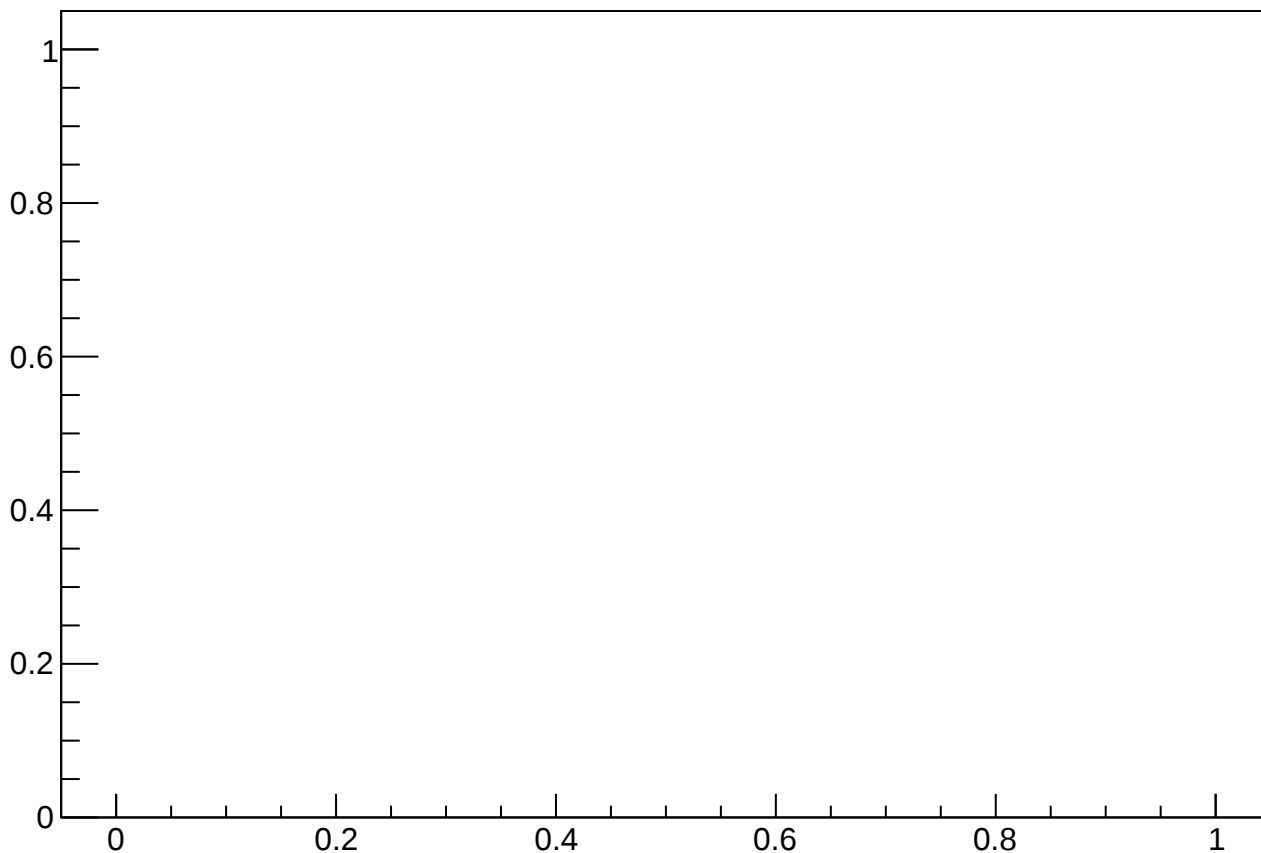
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

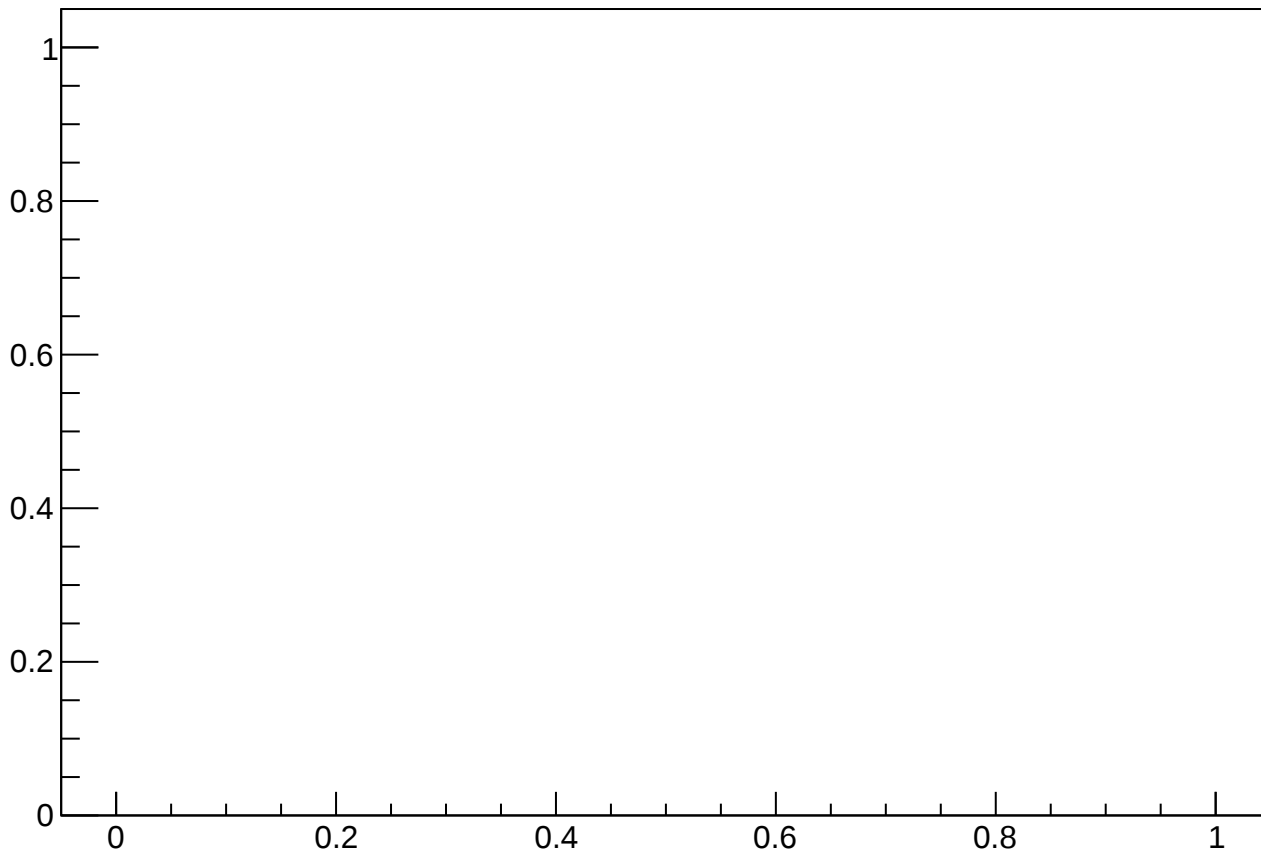
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

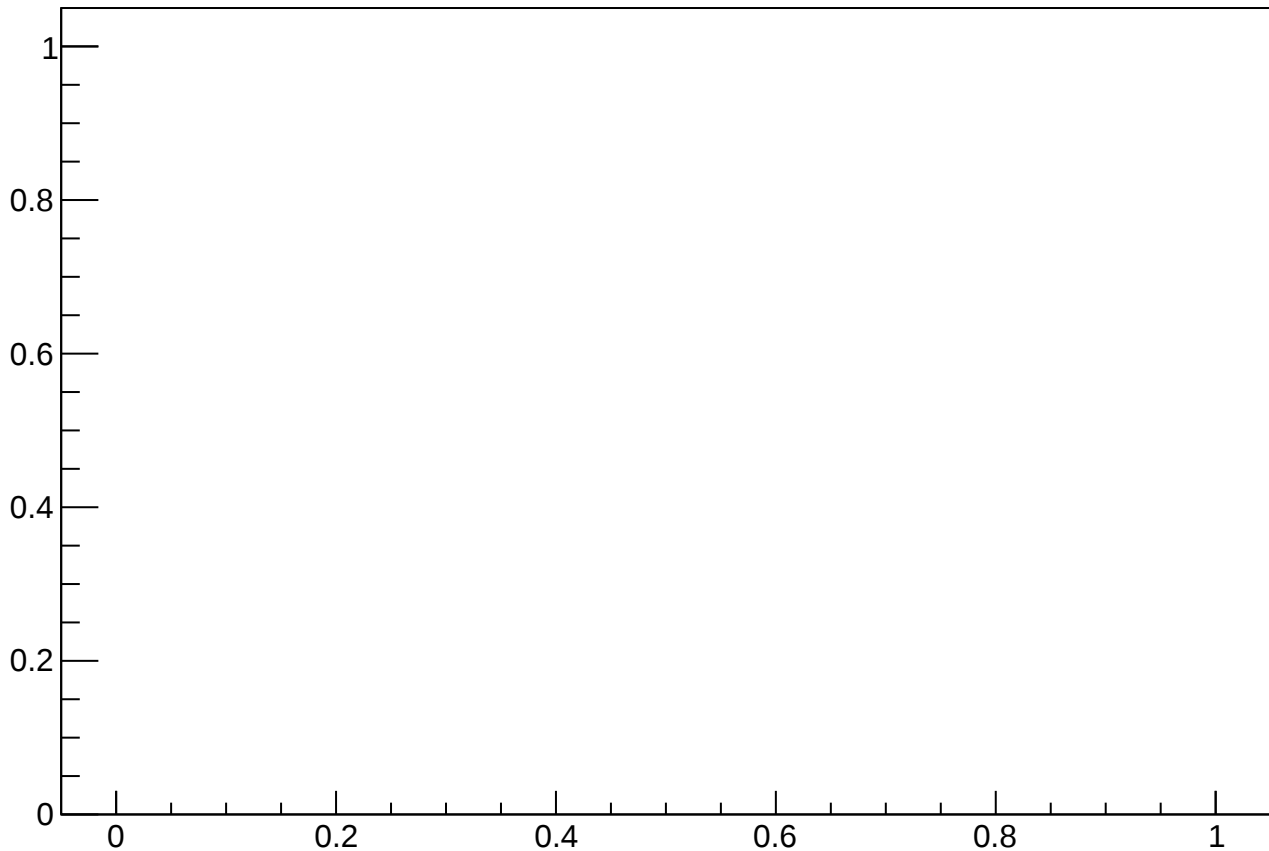
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aY\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

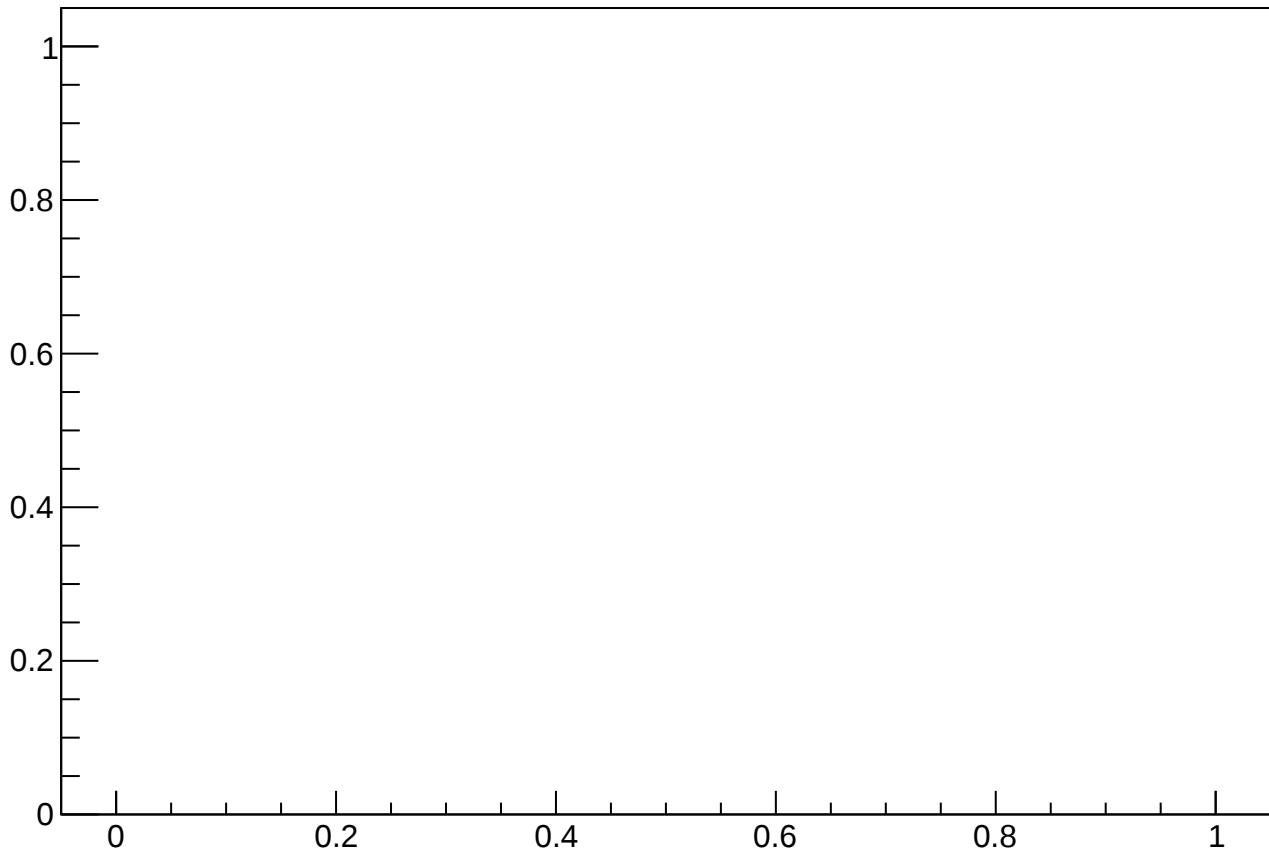
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aY\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

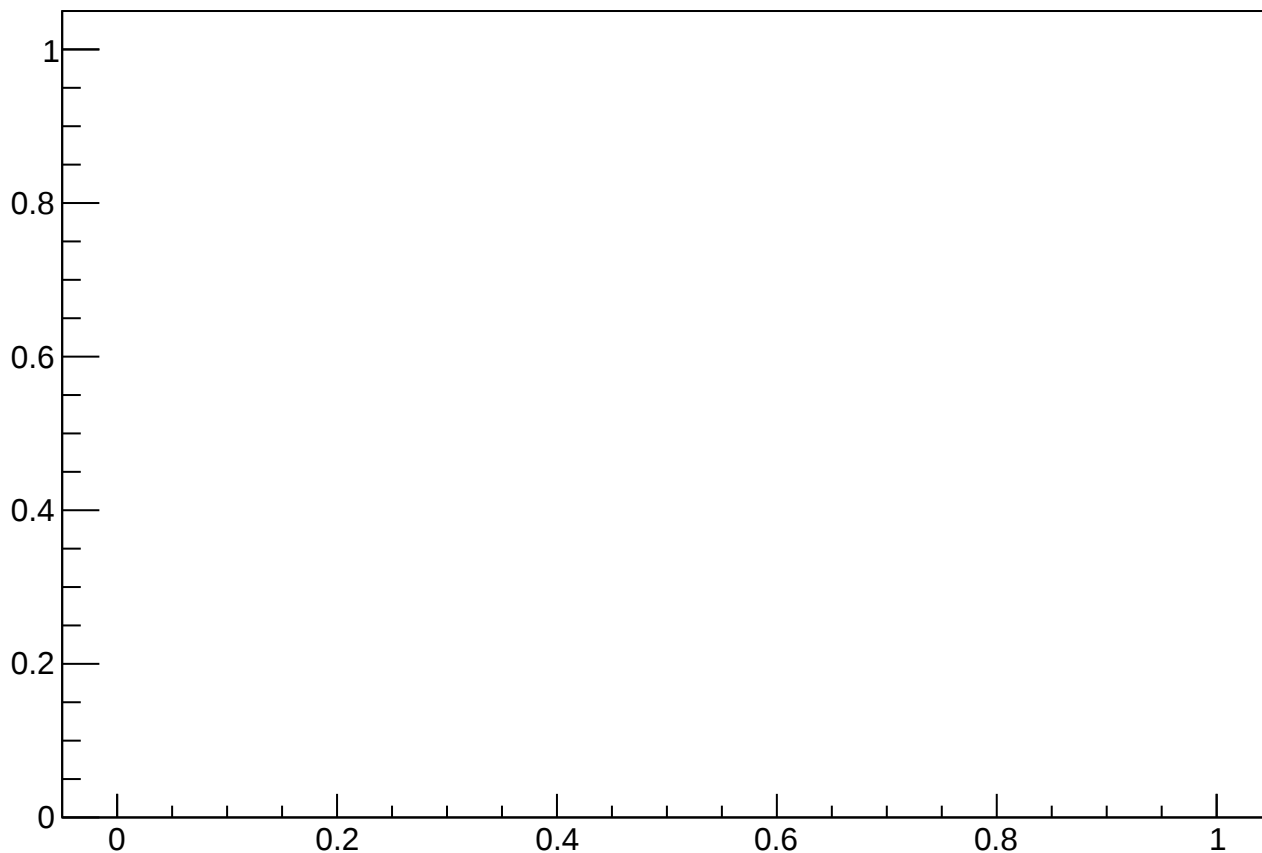
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

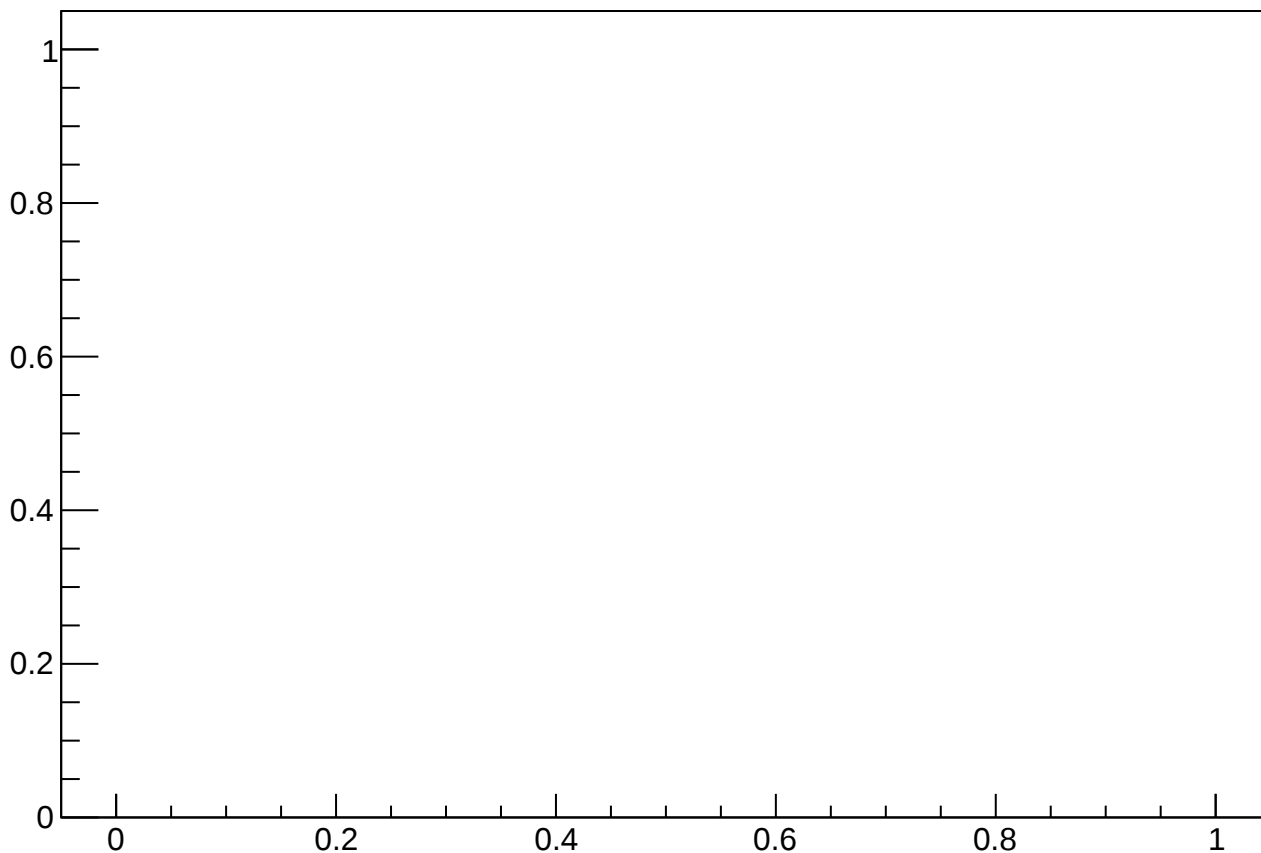
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eY\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

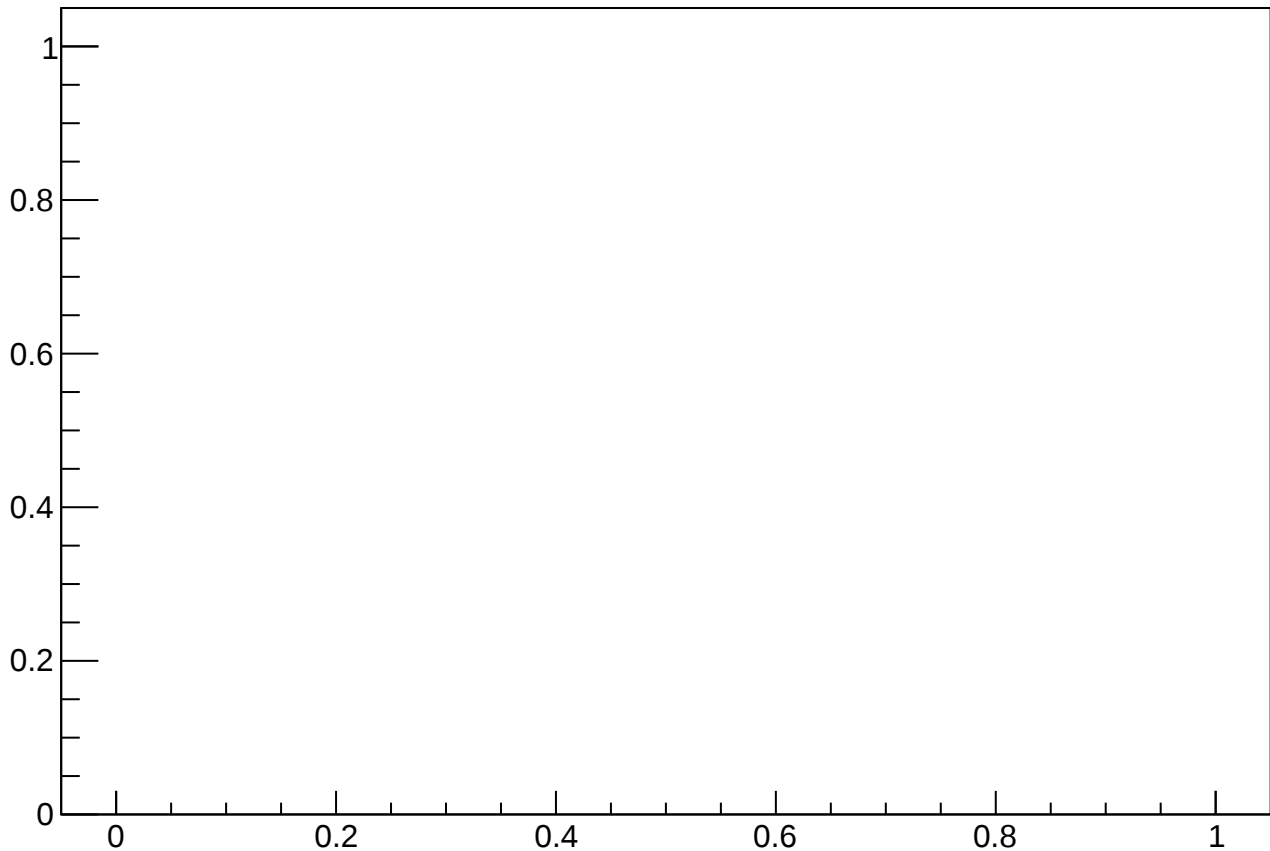
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eY\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

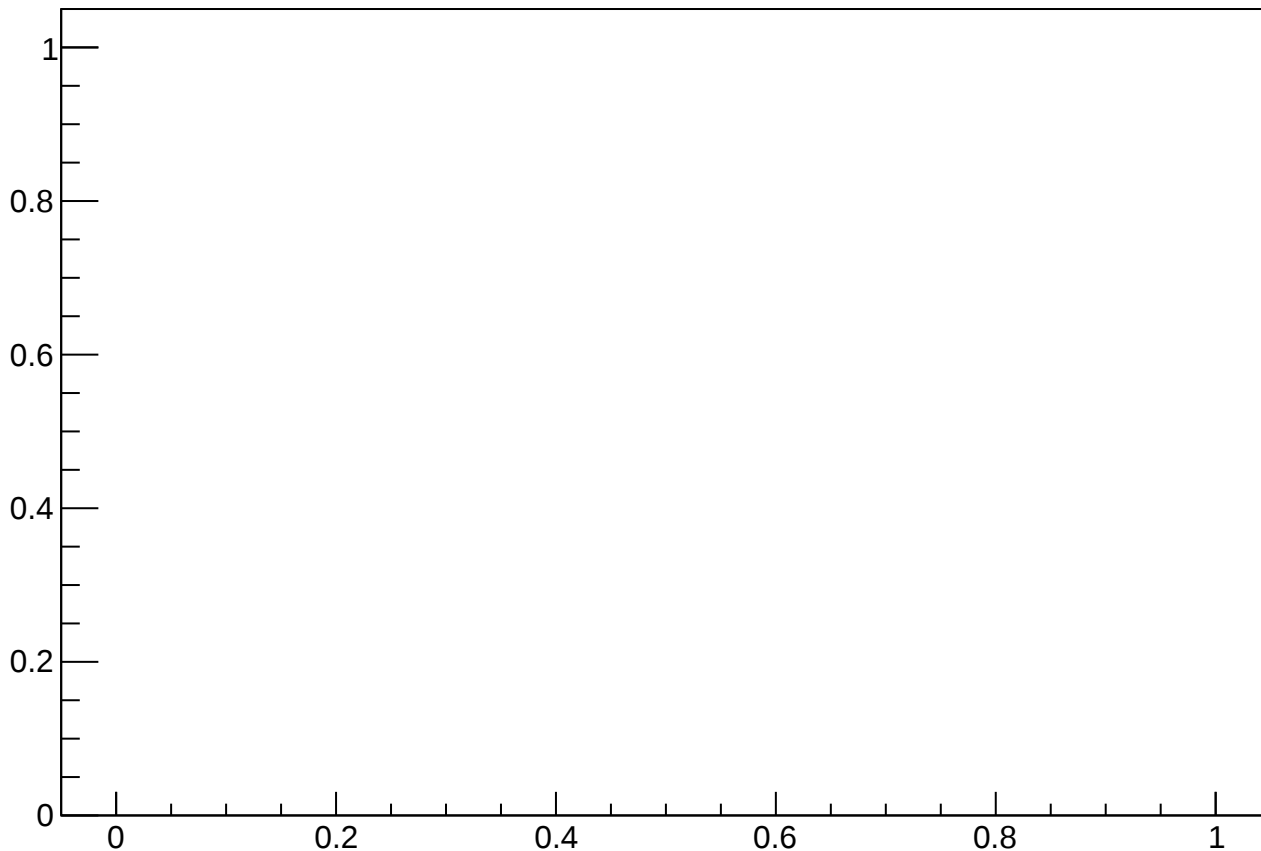
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

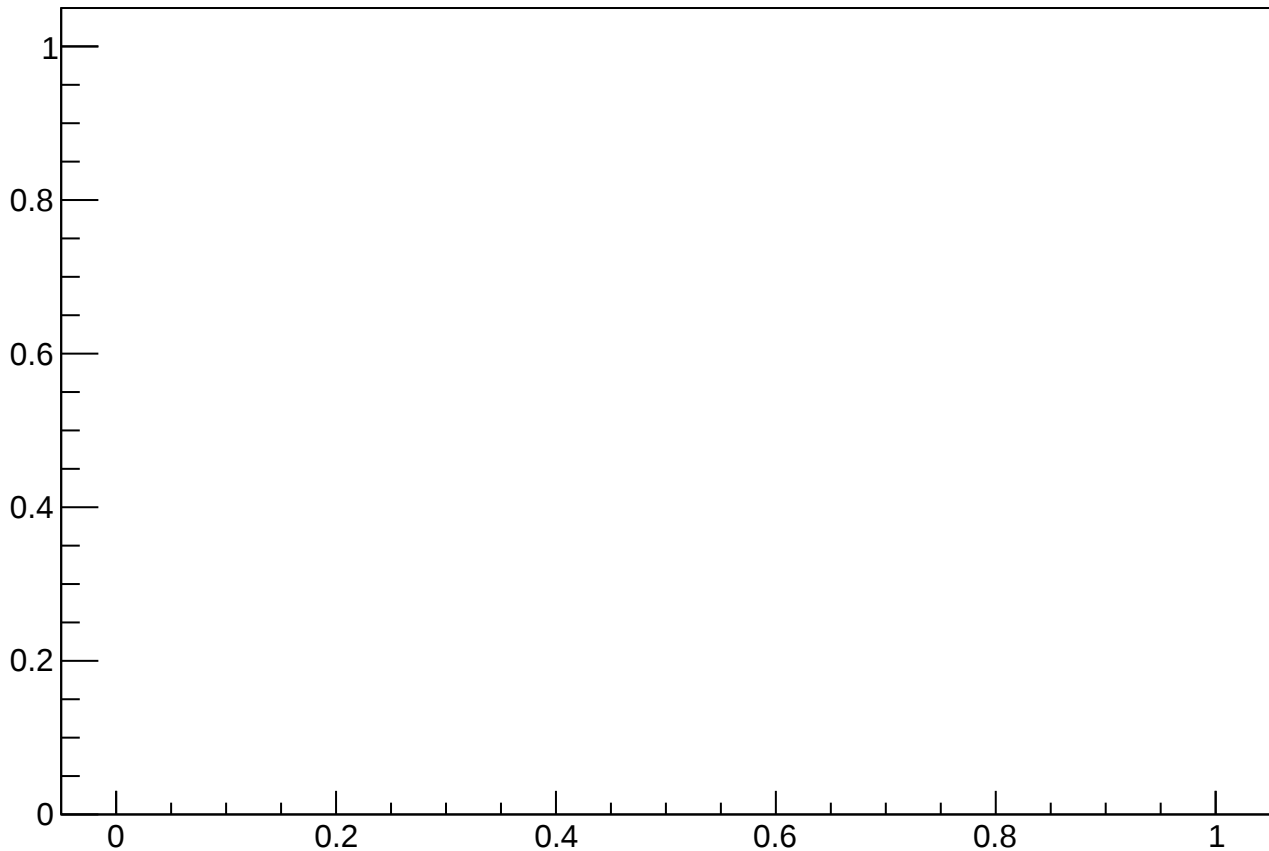
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

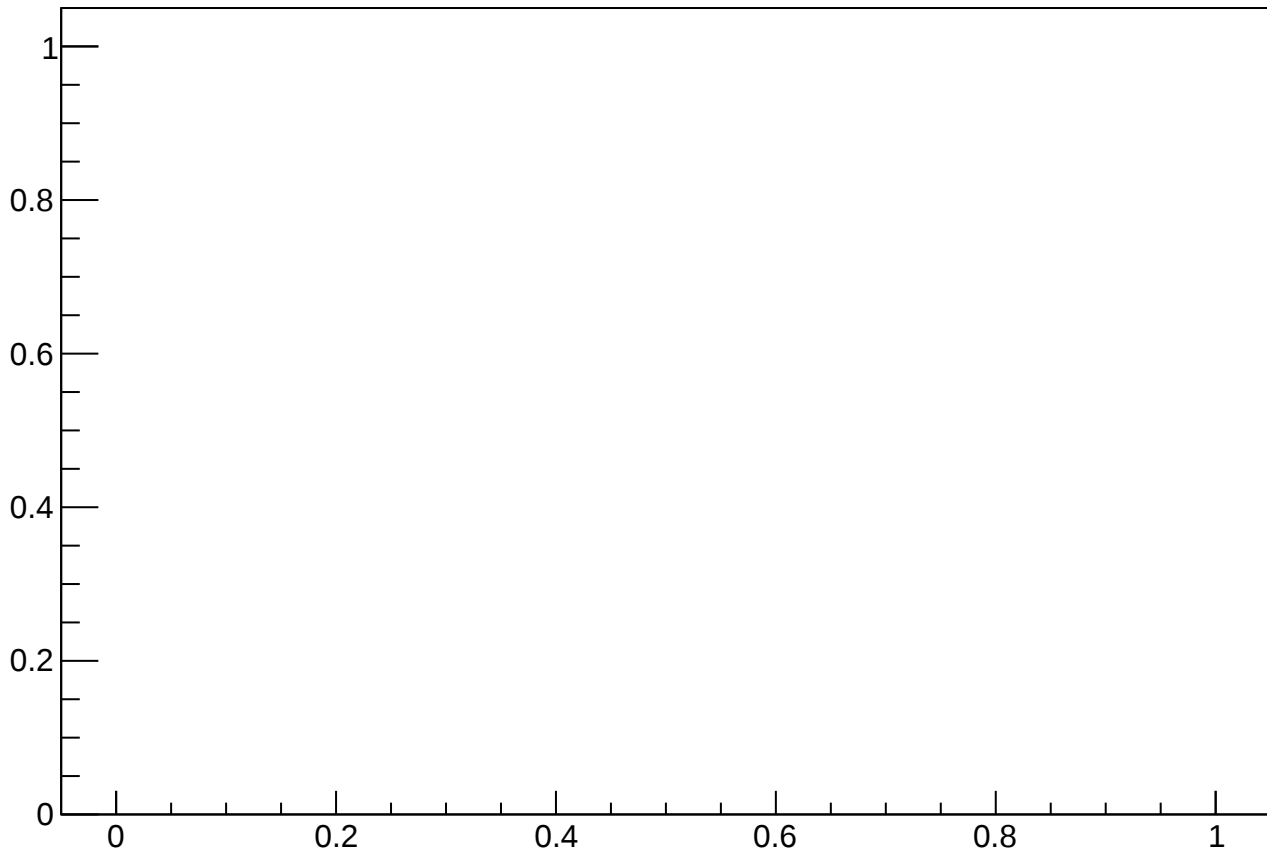
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

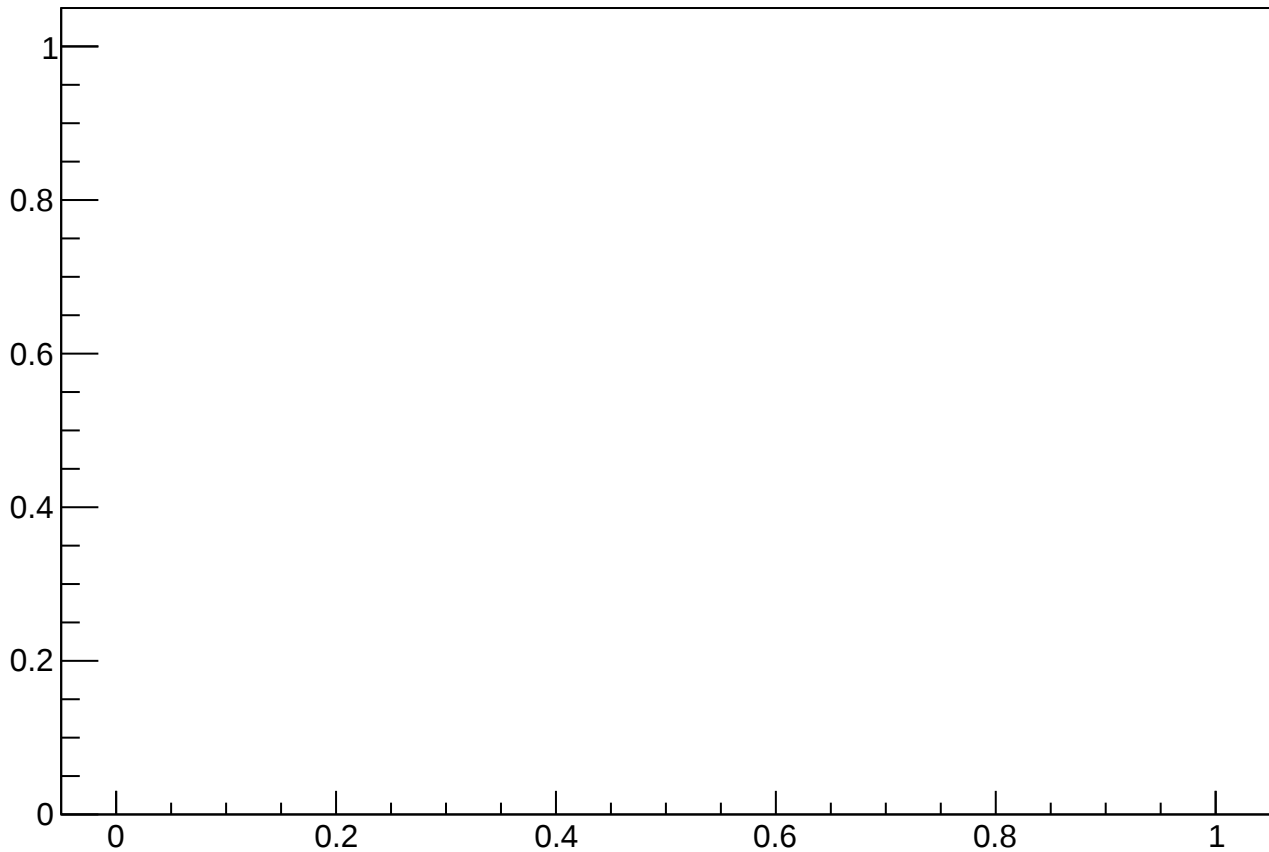
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

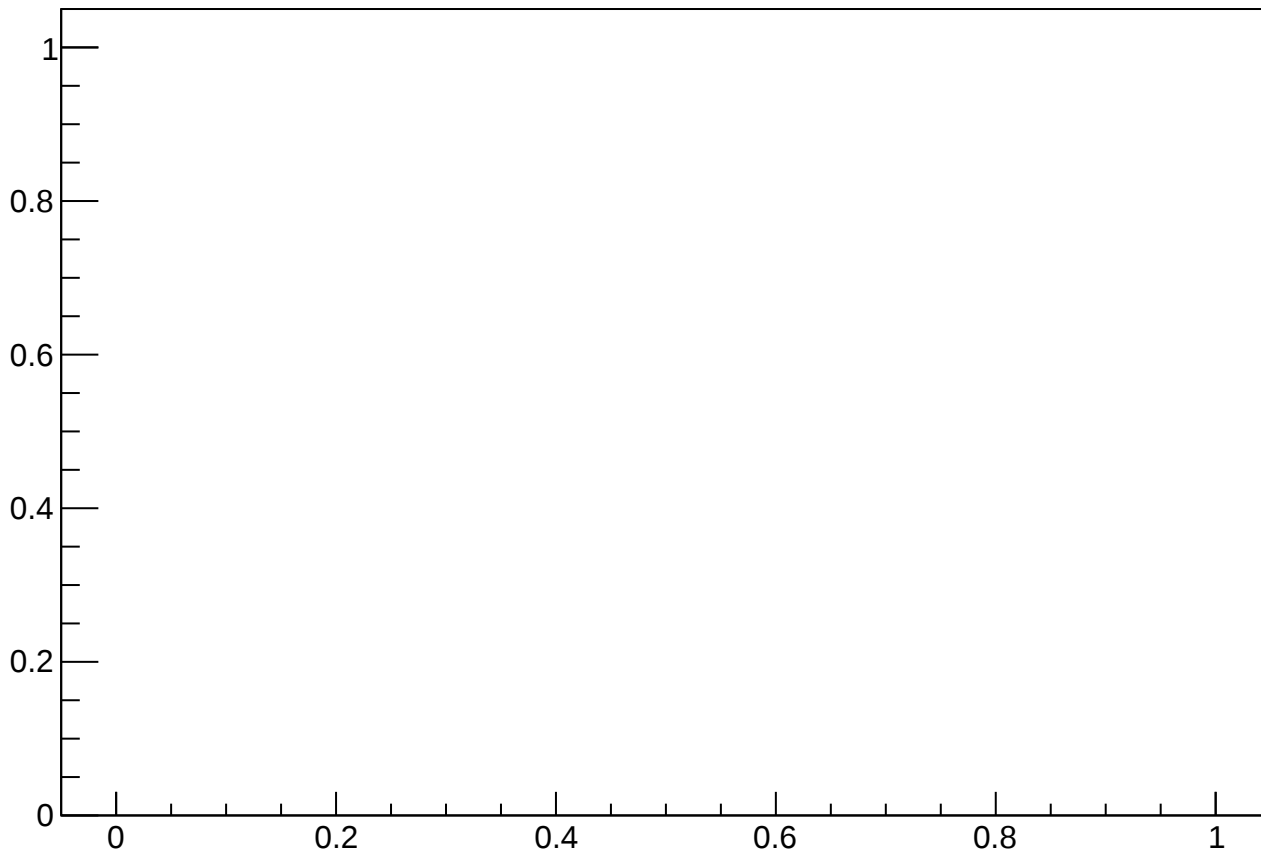
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

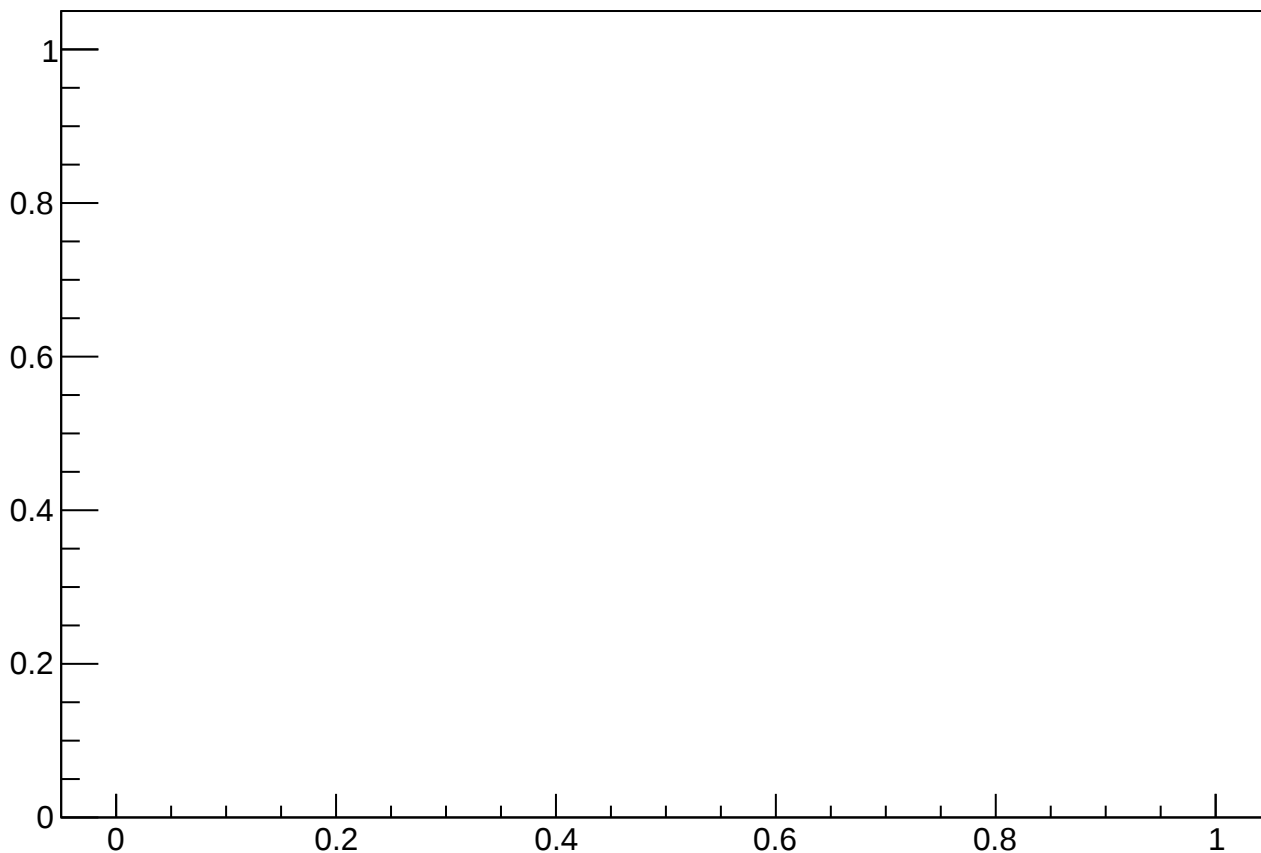
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

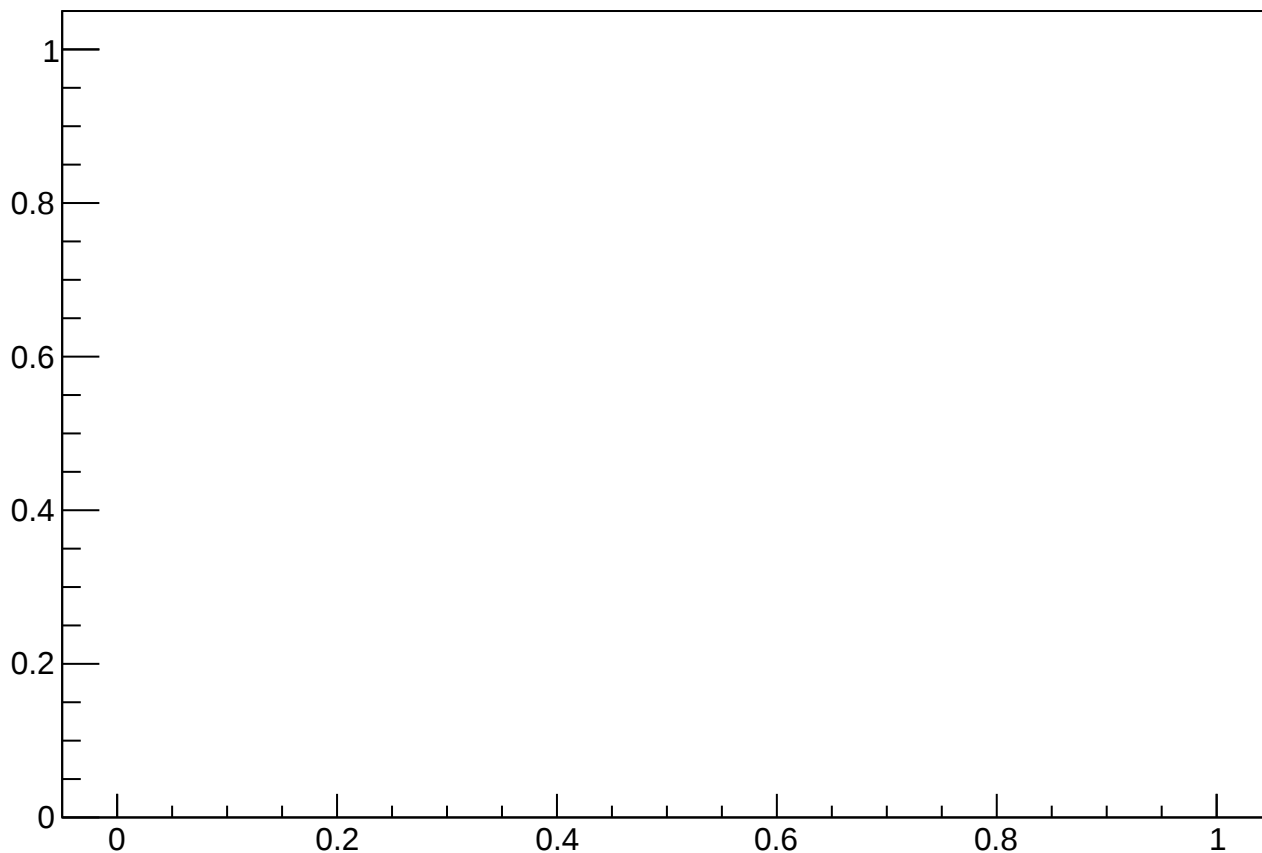
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

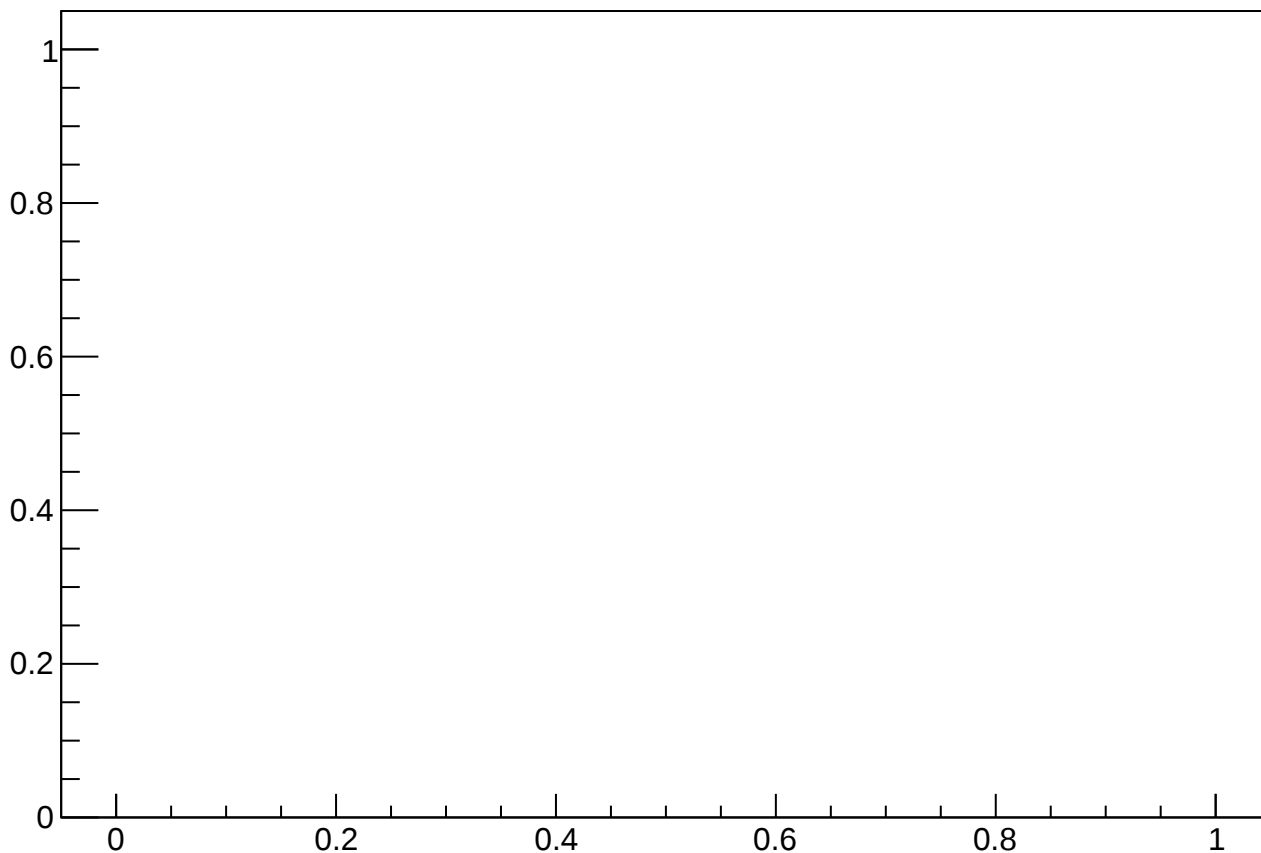
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl1\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

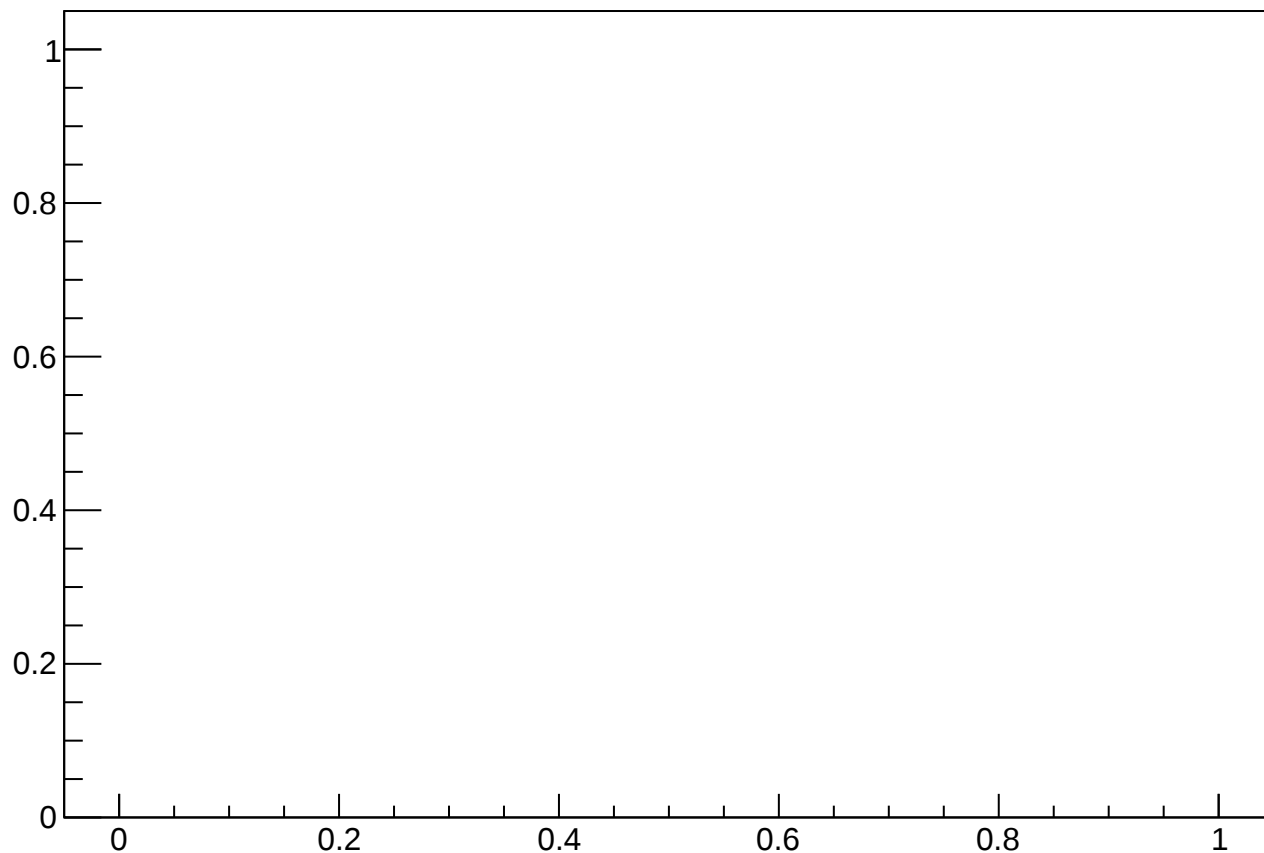
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil4\_err\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

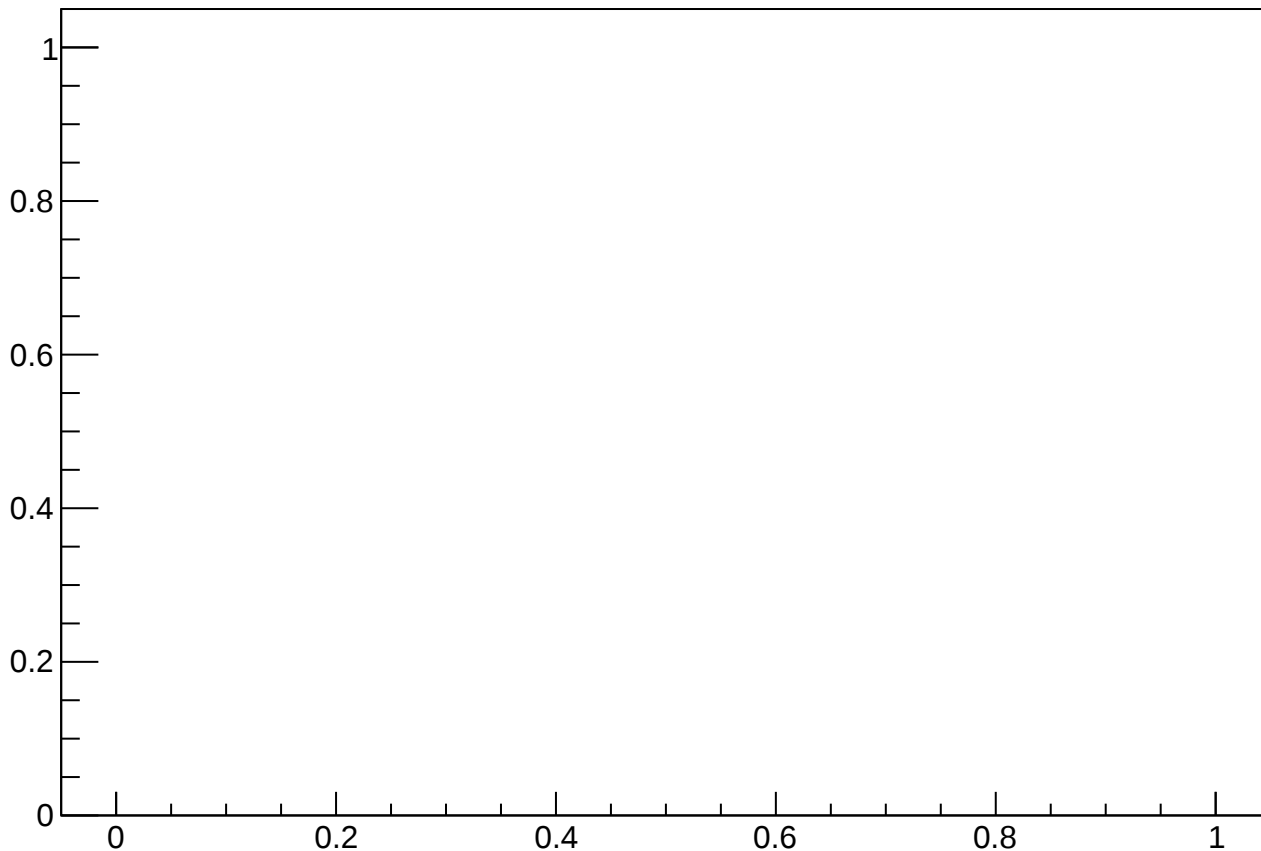
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

dit\_atl1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

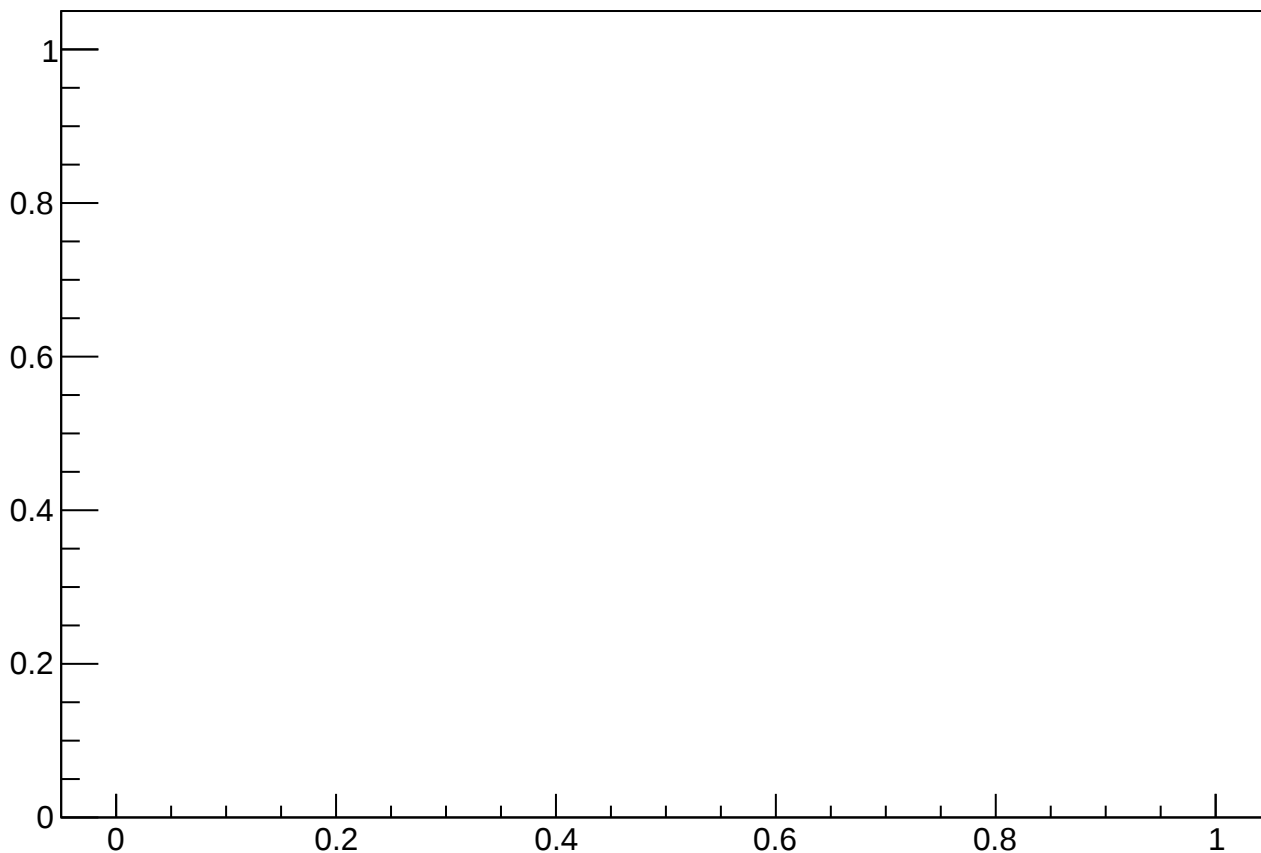
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

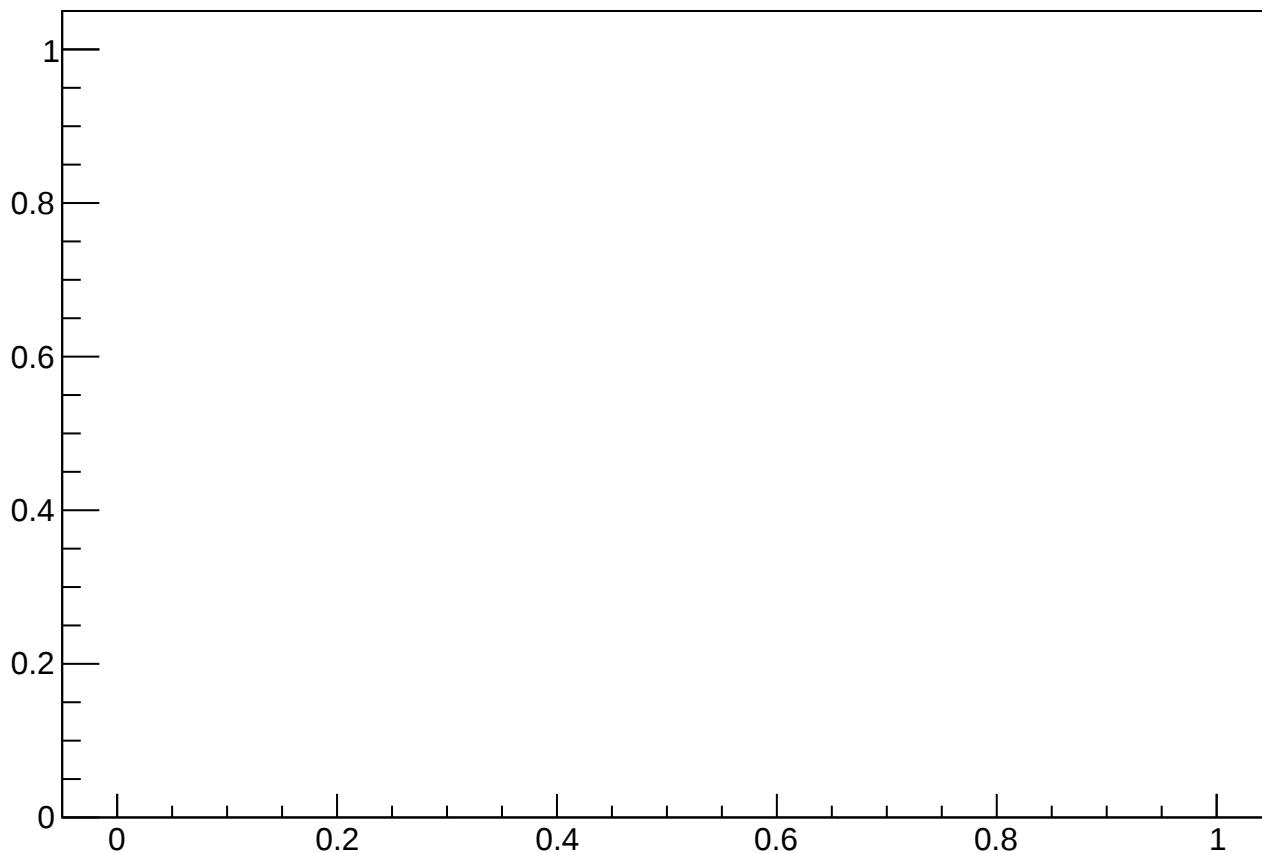
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

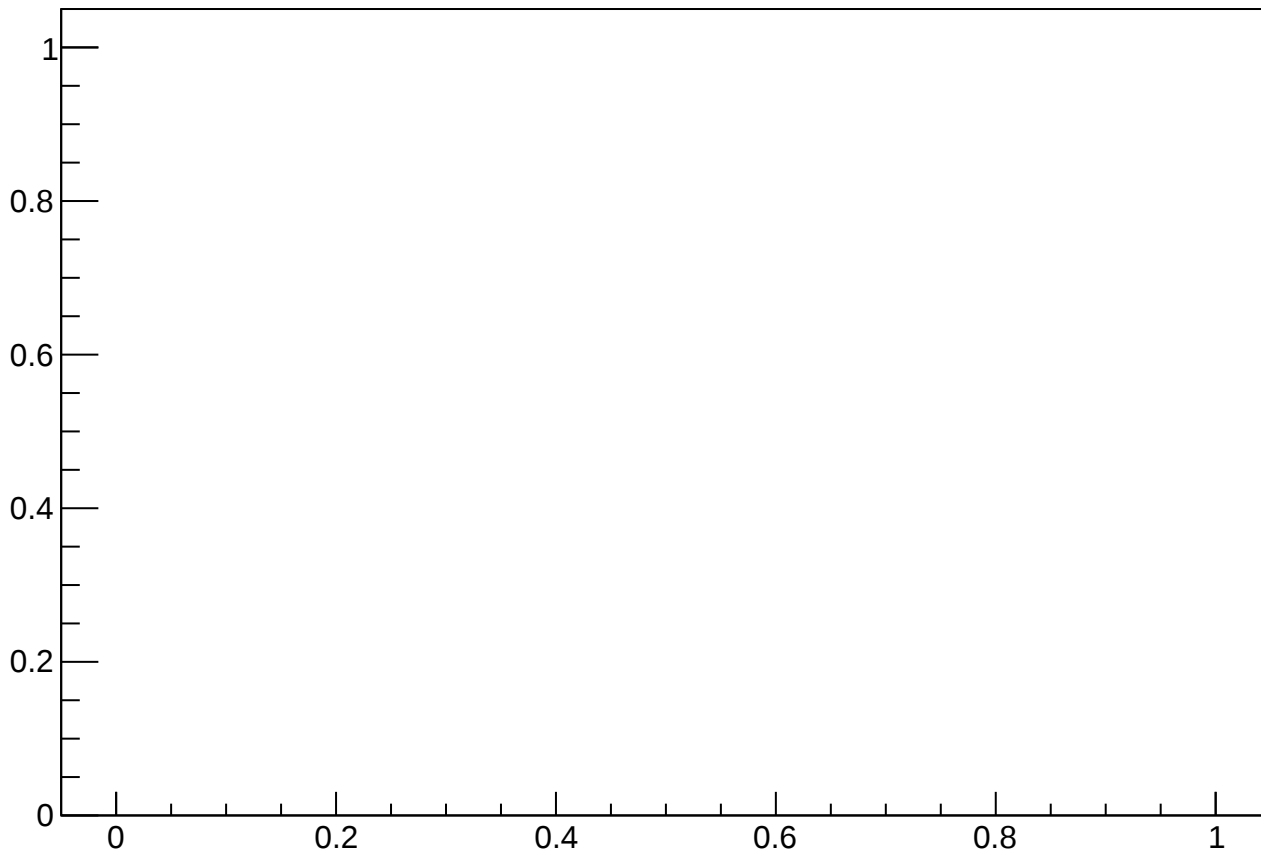
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

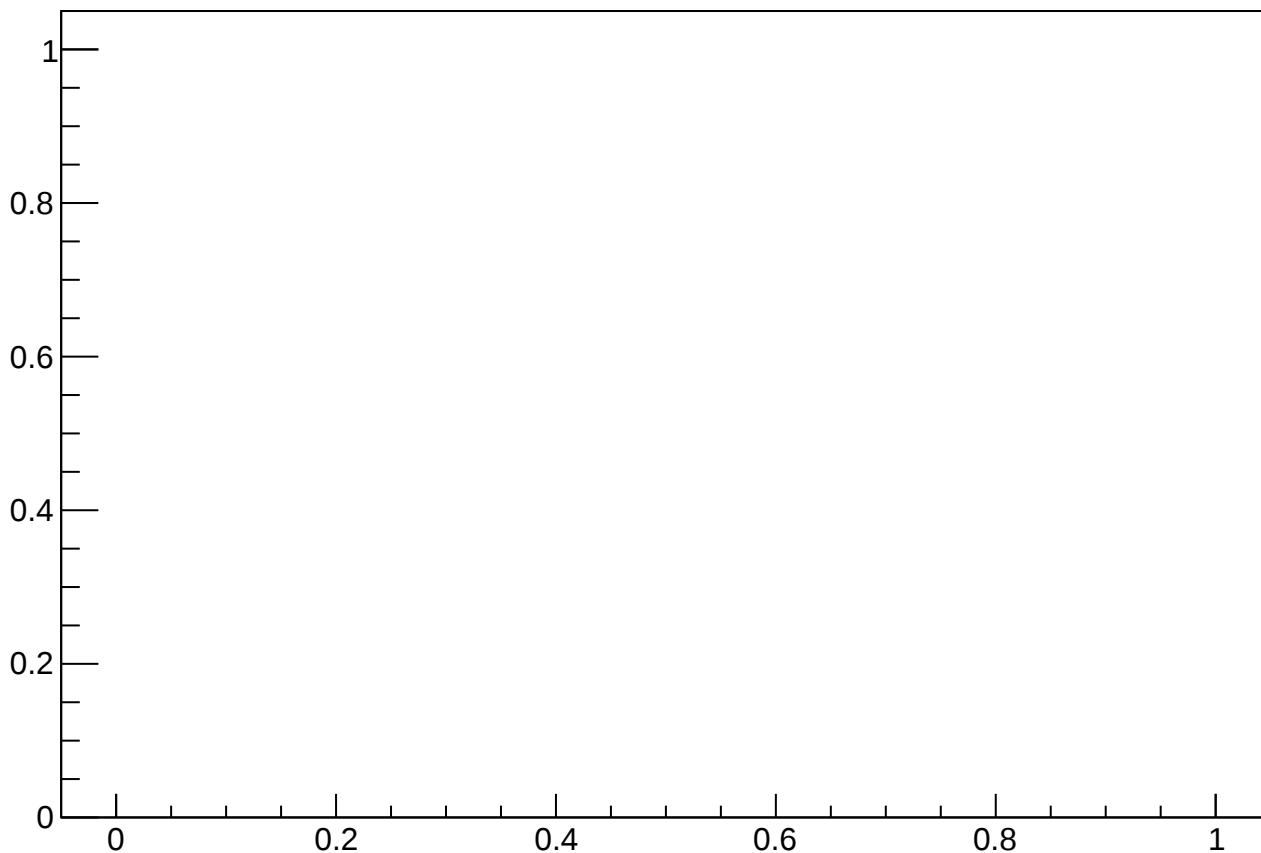
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

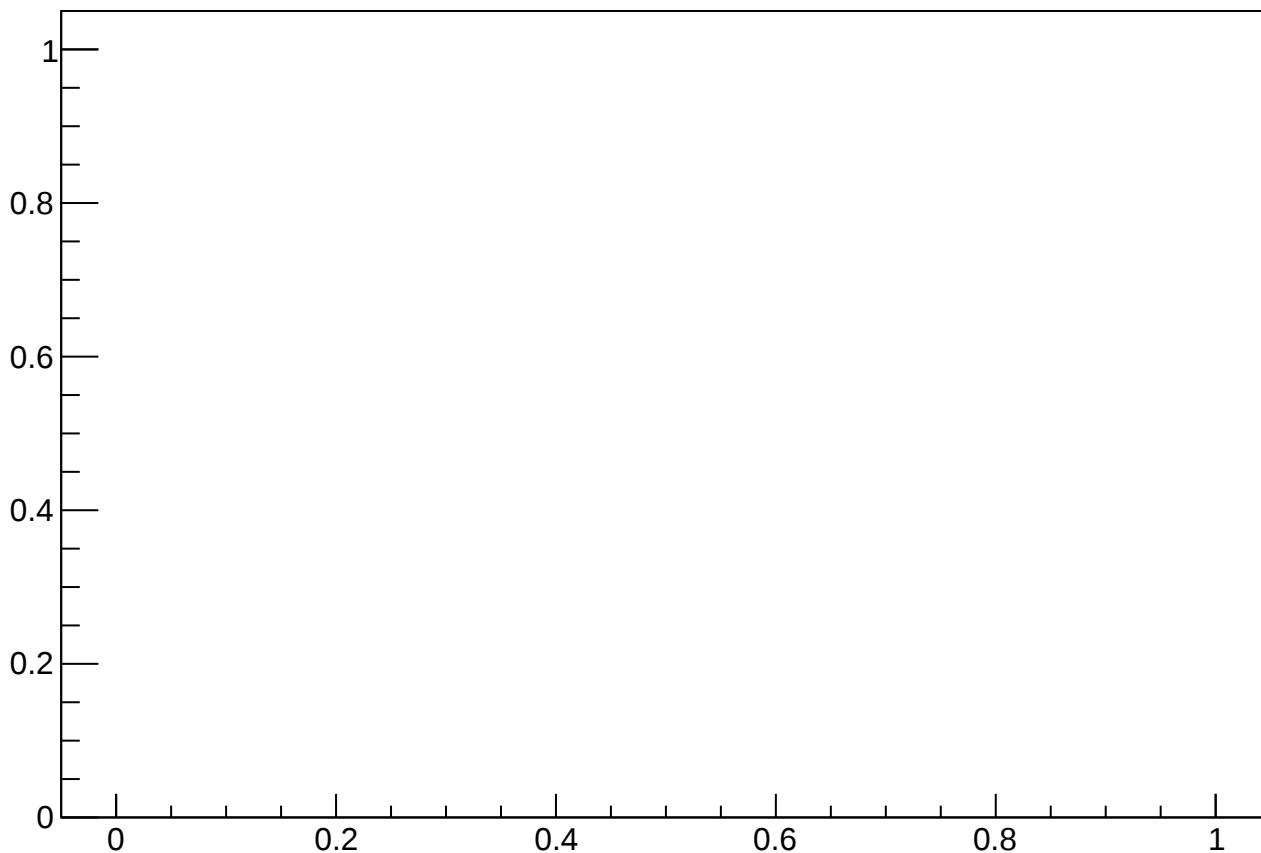
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr1\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

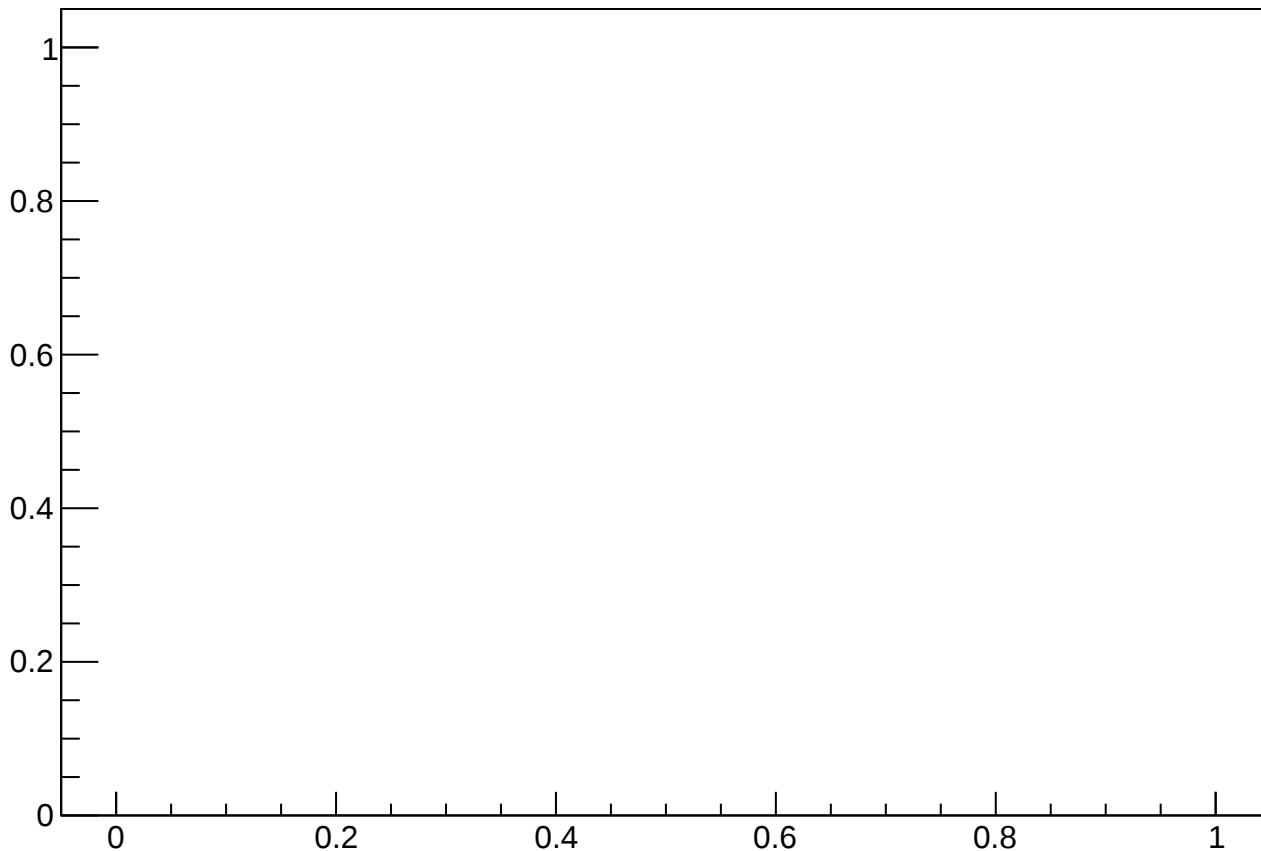
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

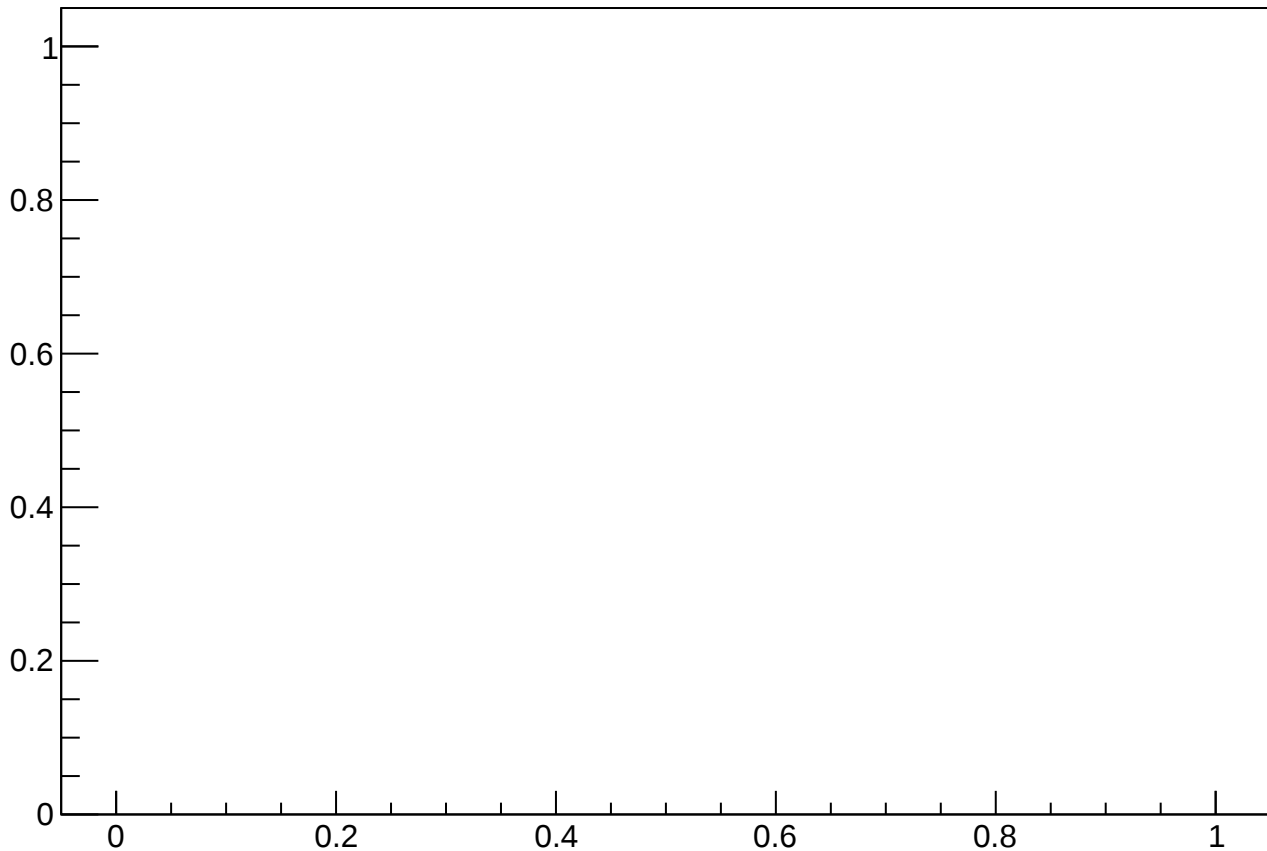
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

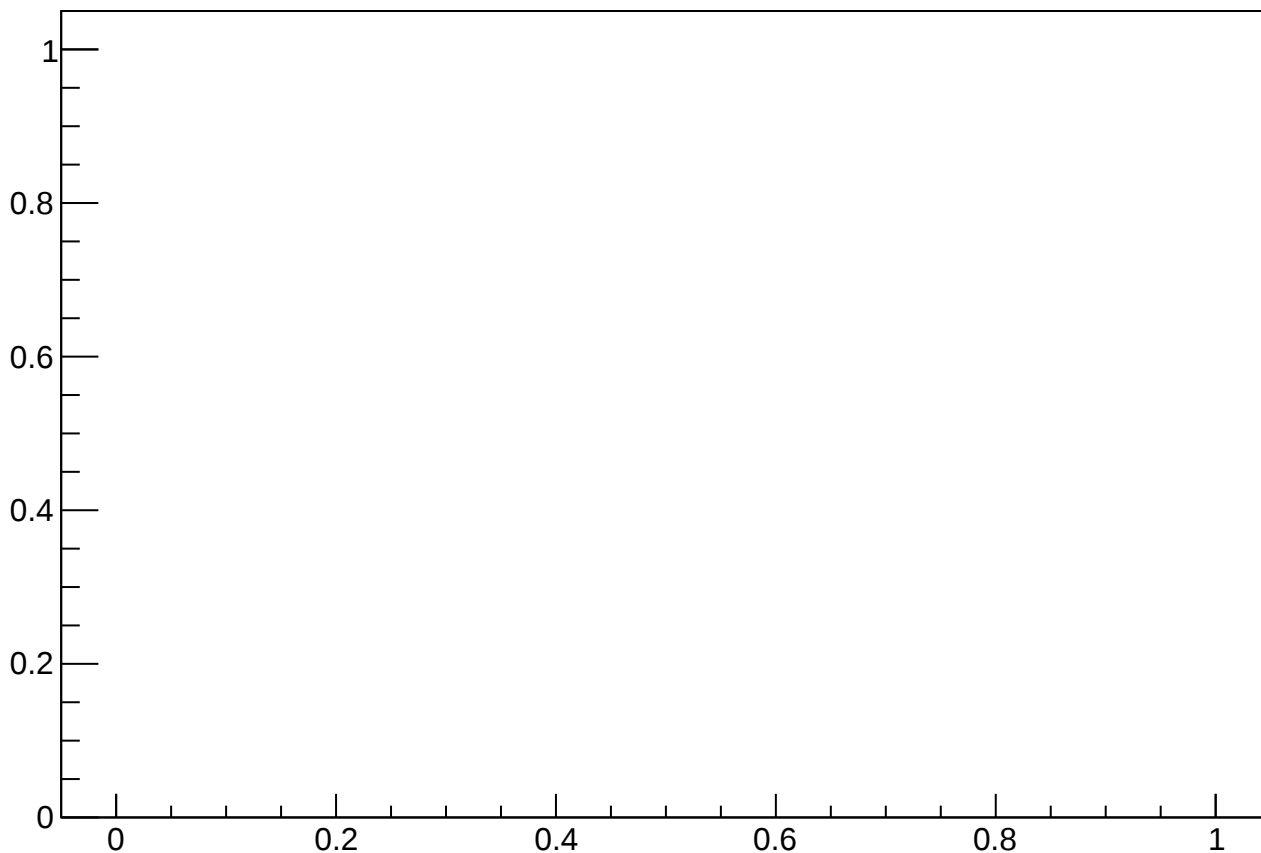
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

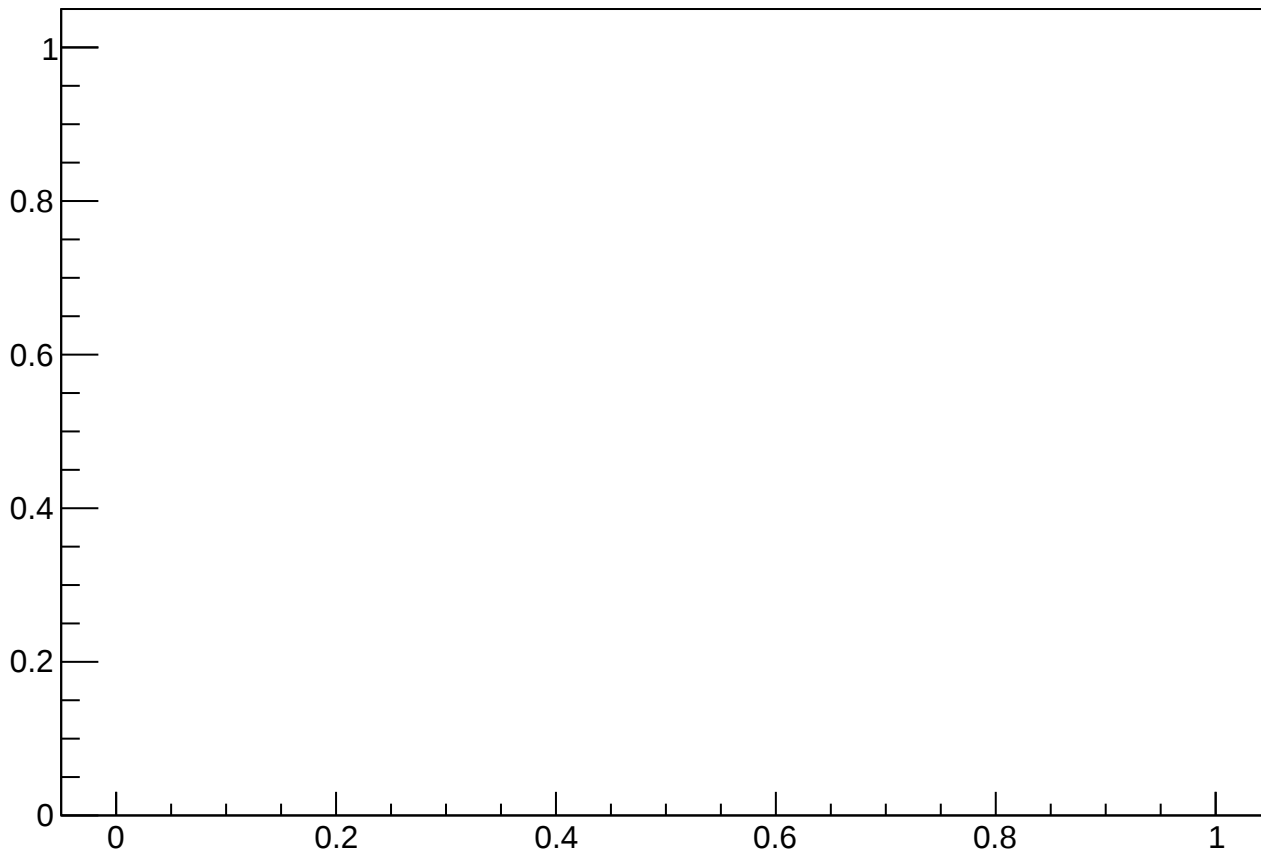
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

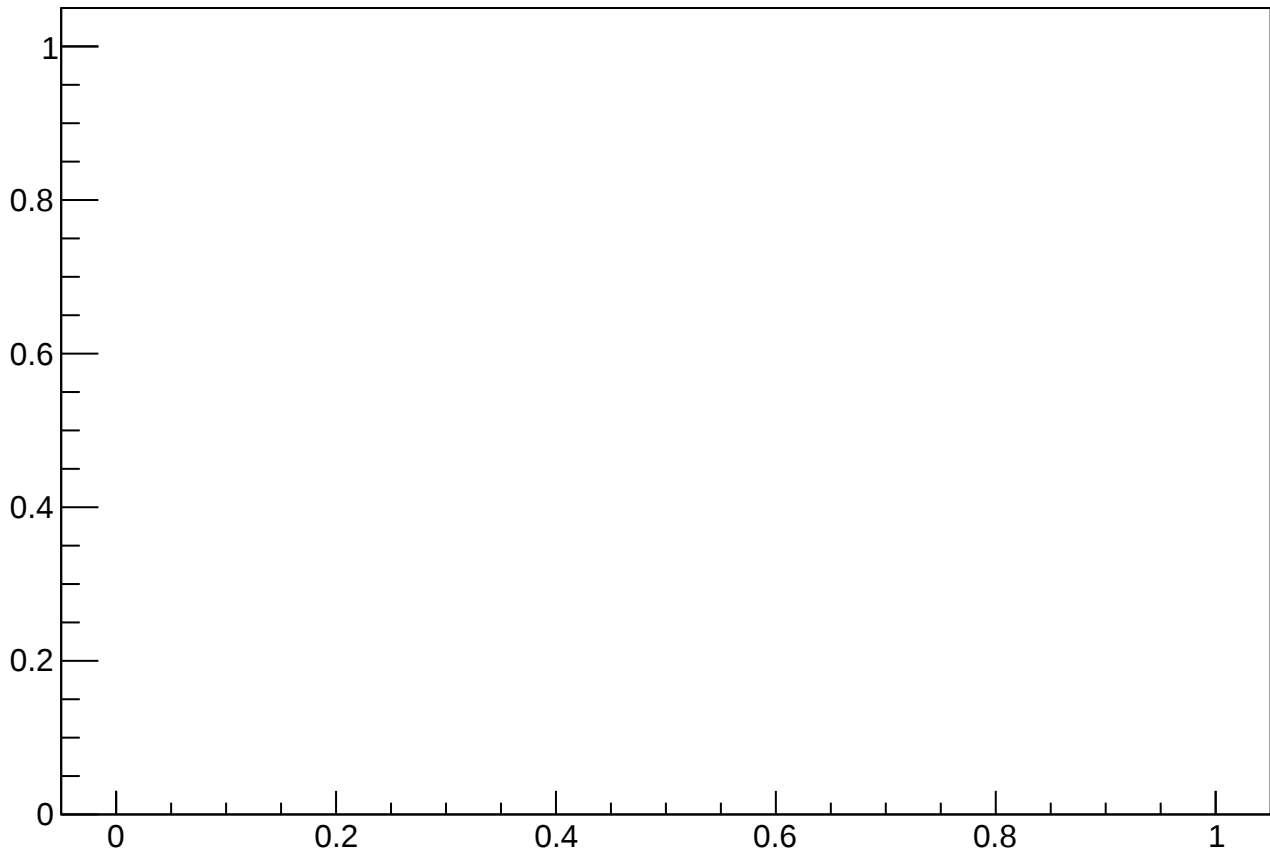
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam1\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

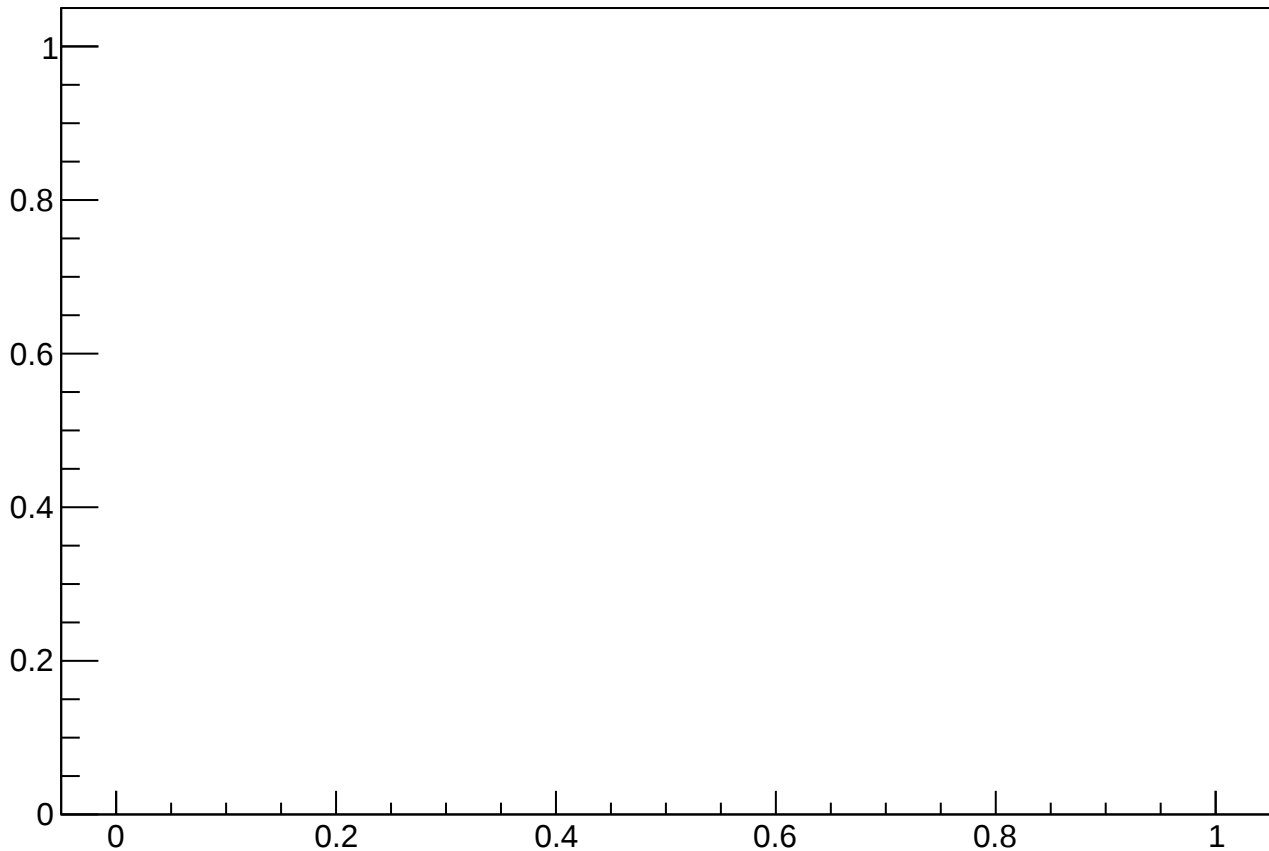
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

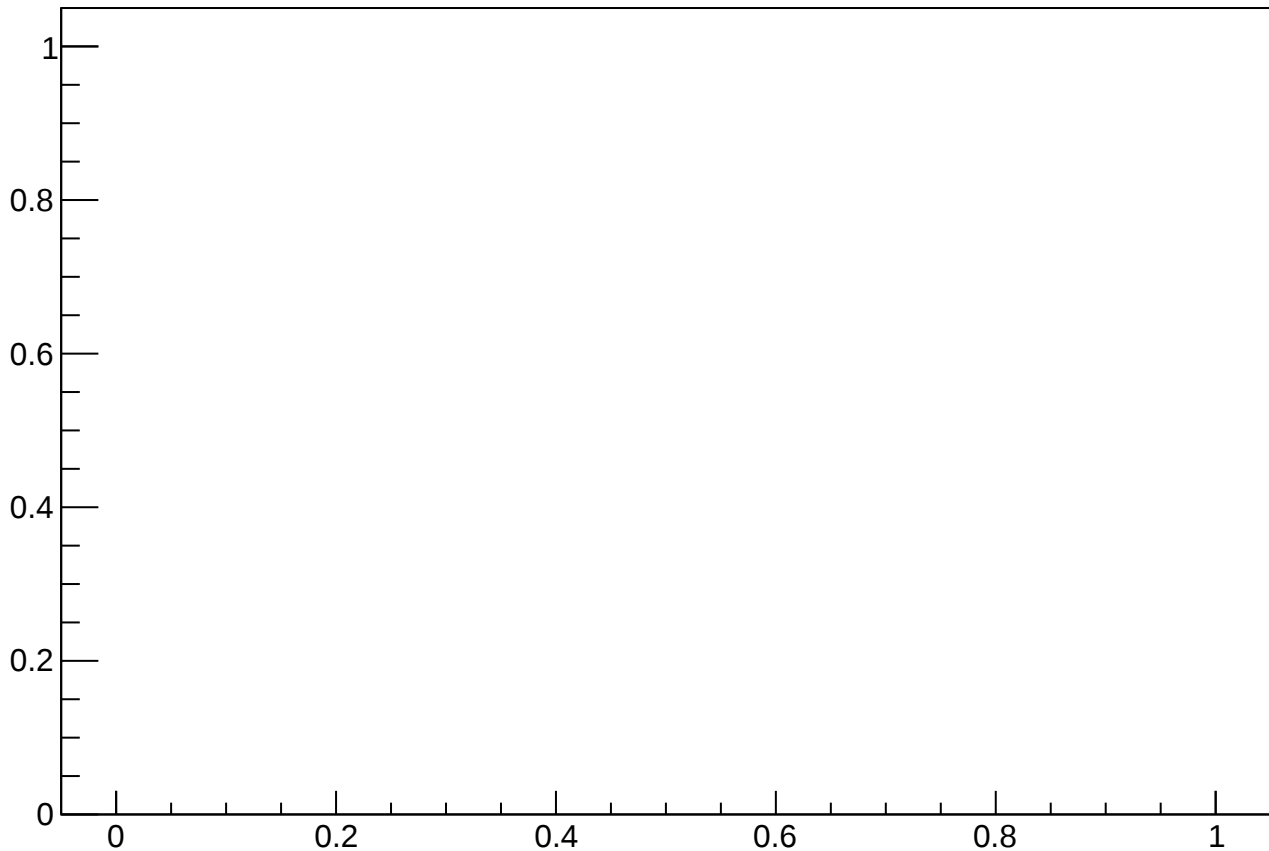
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

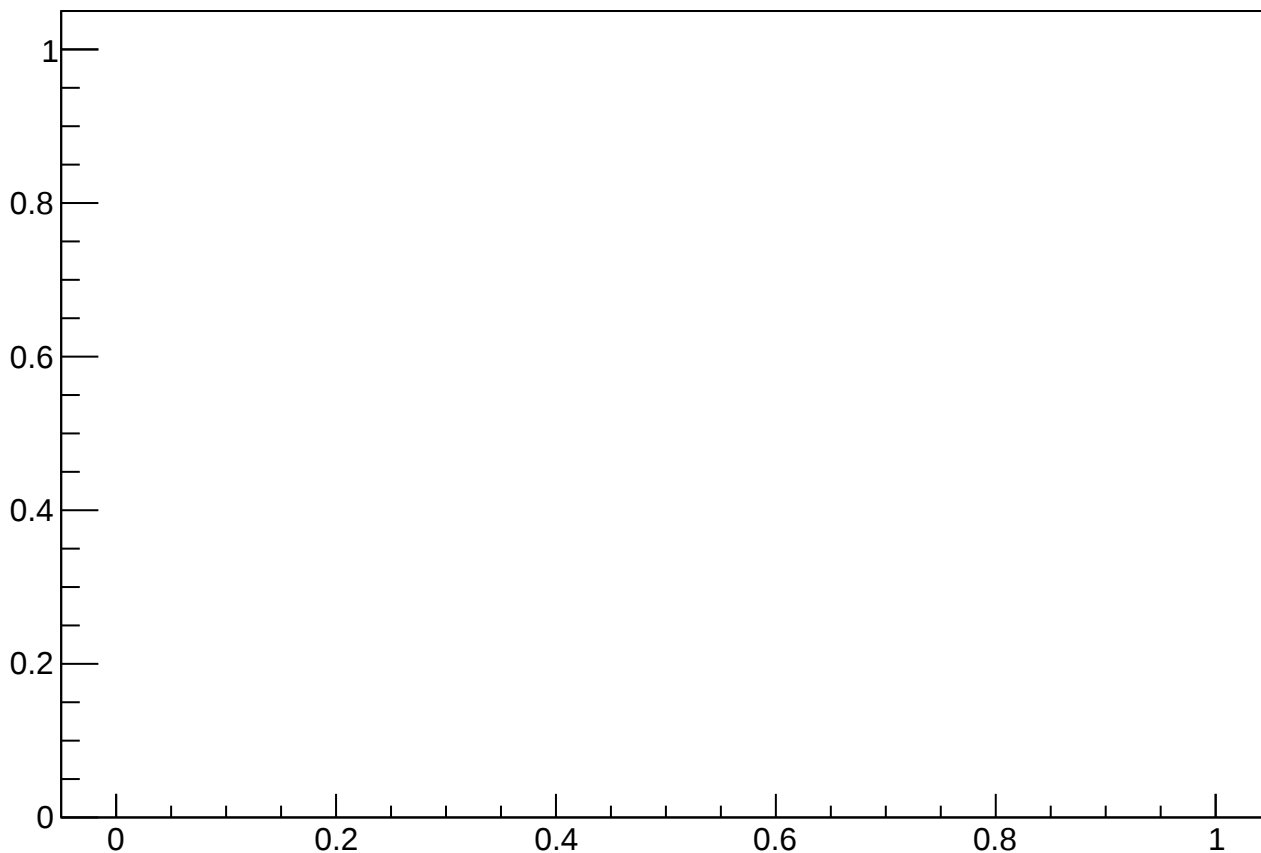
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

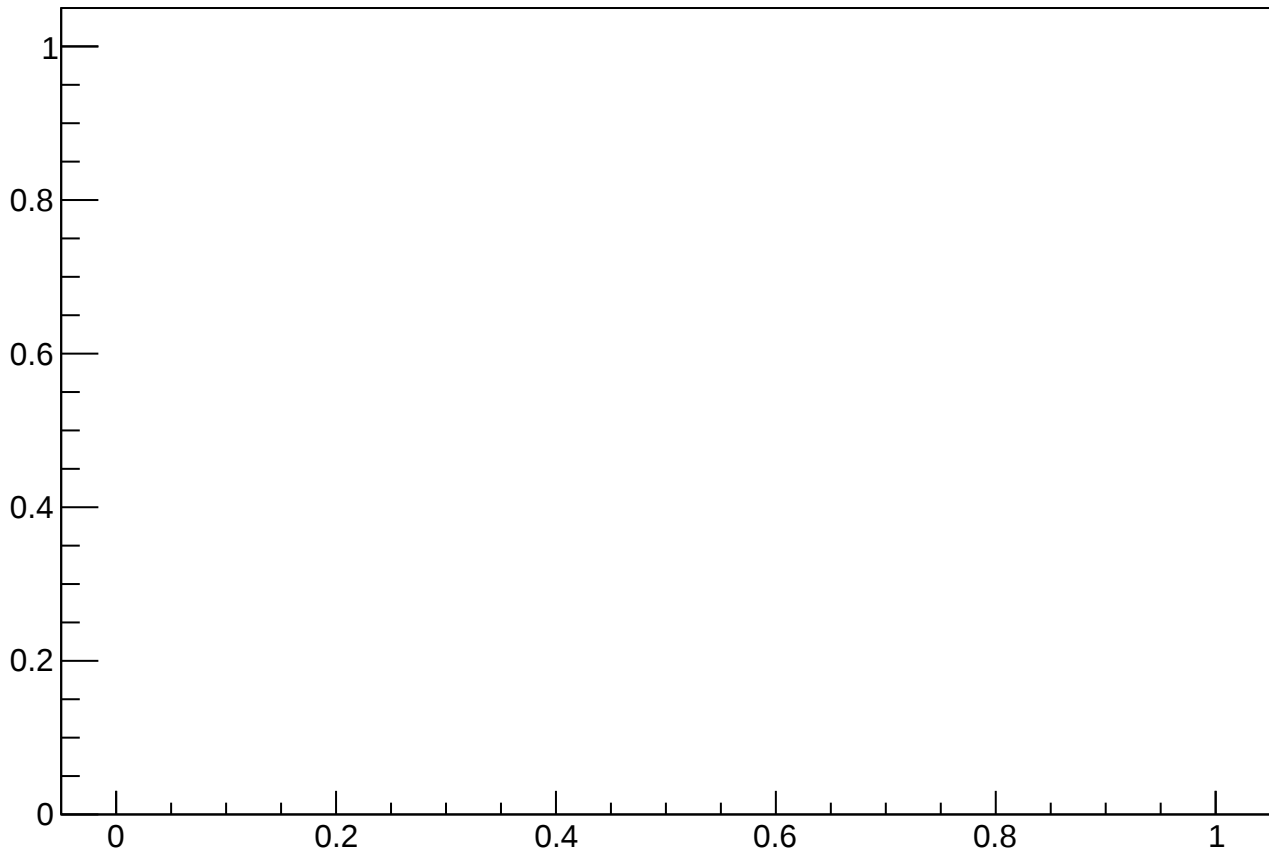
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

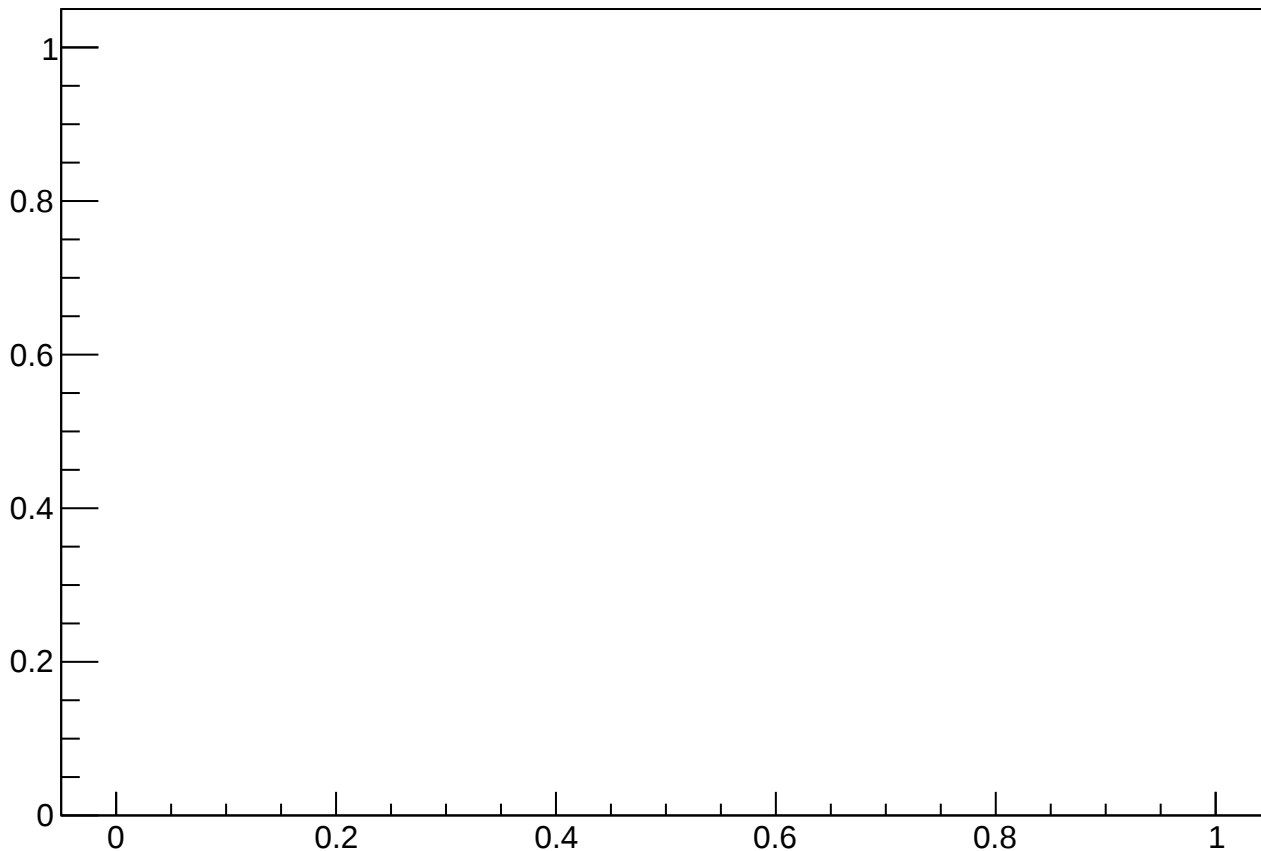
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil4\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

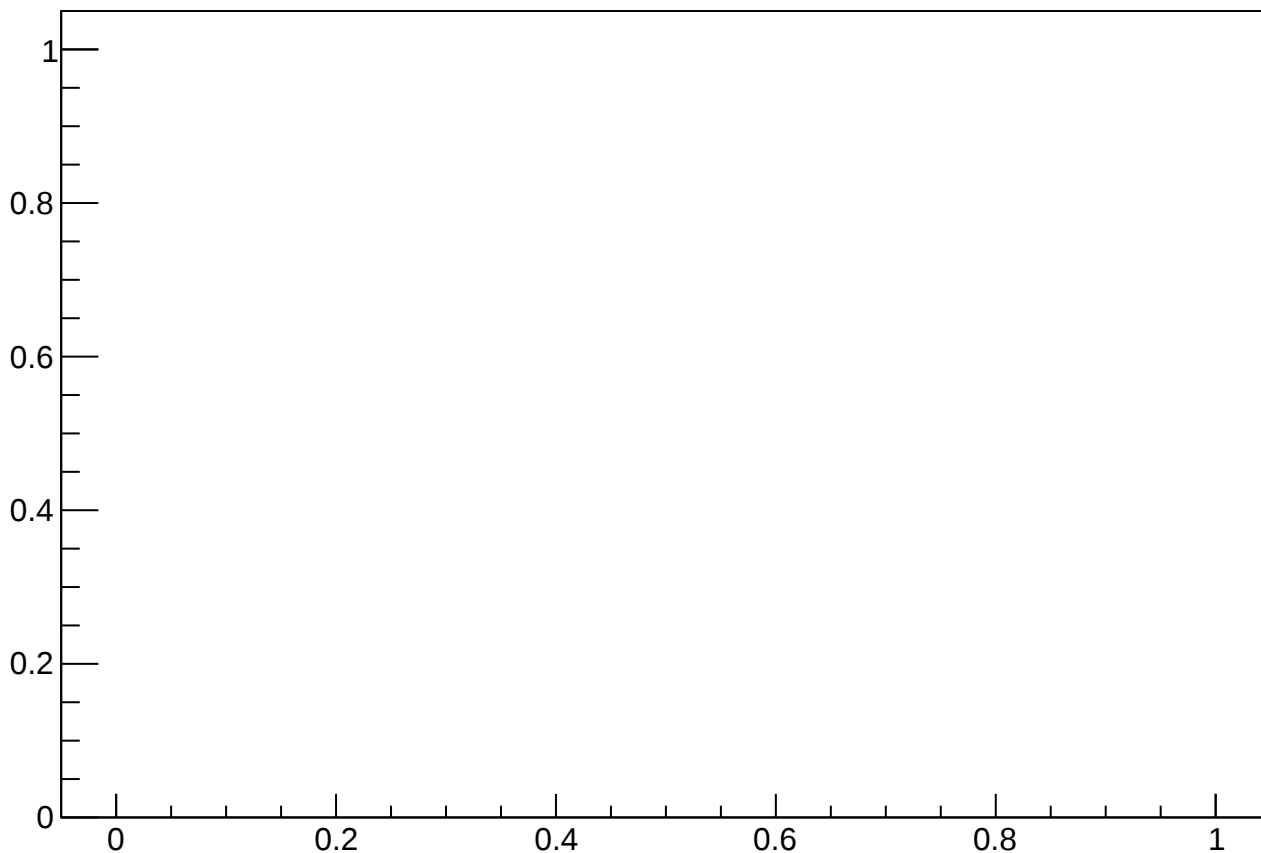
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_sam3\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

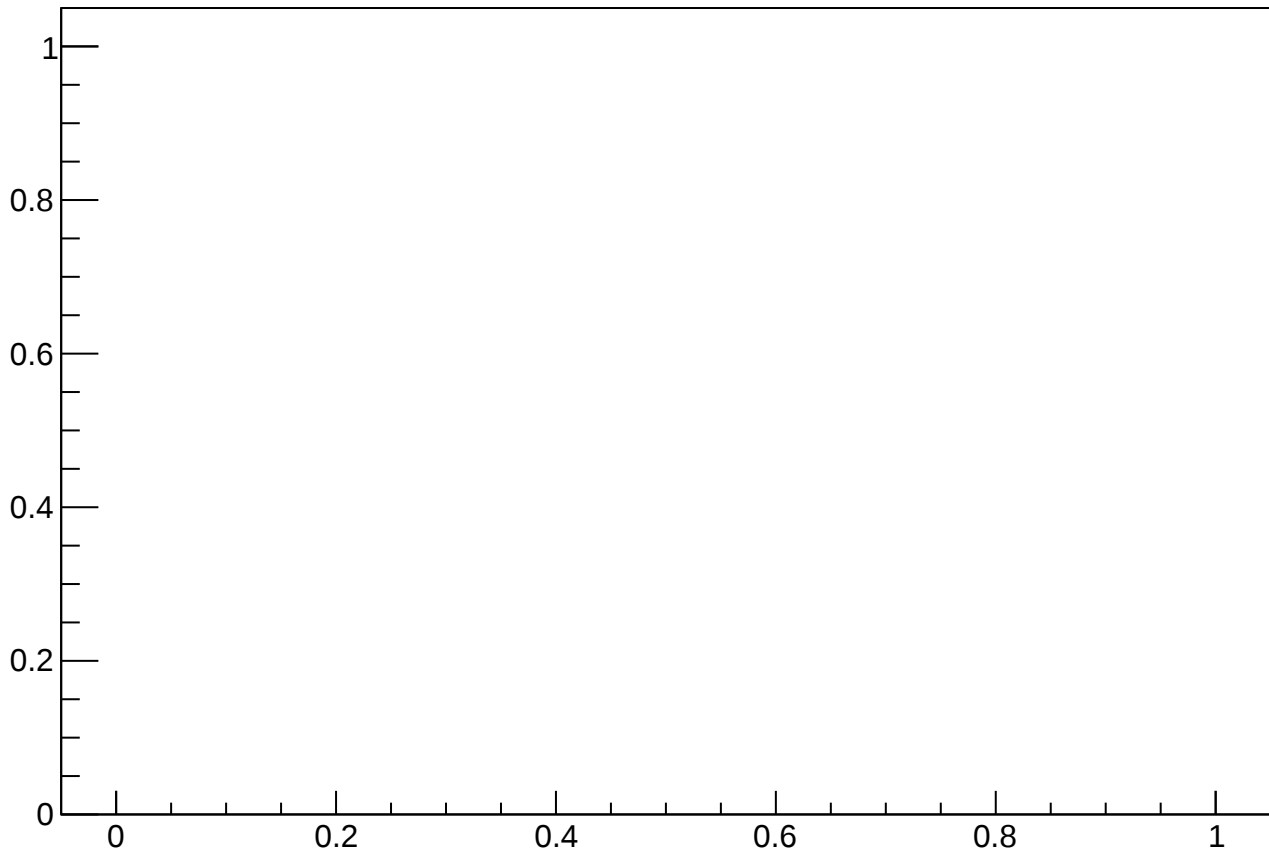
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

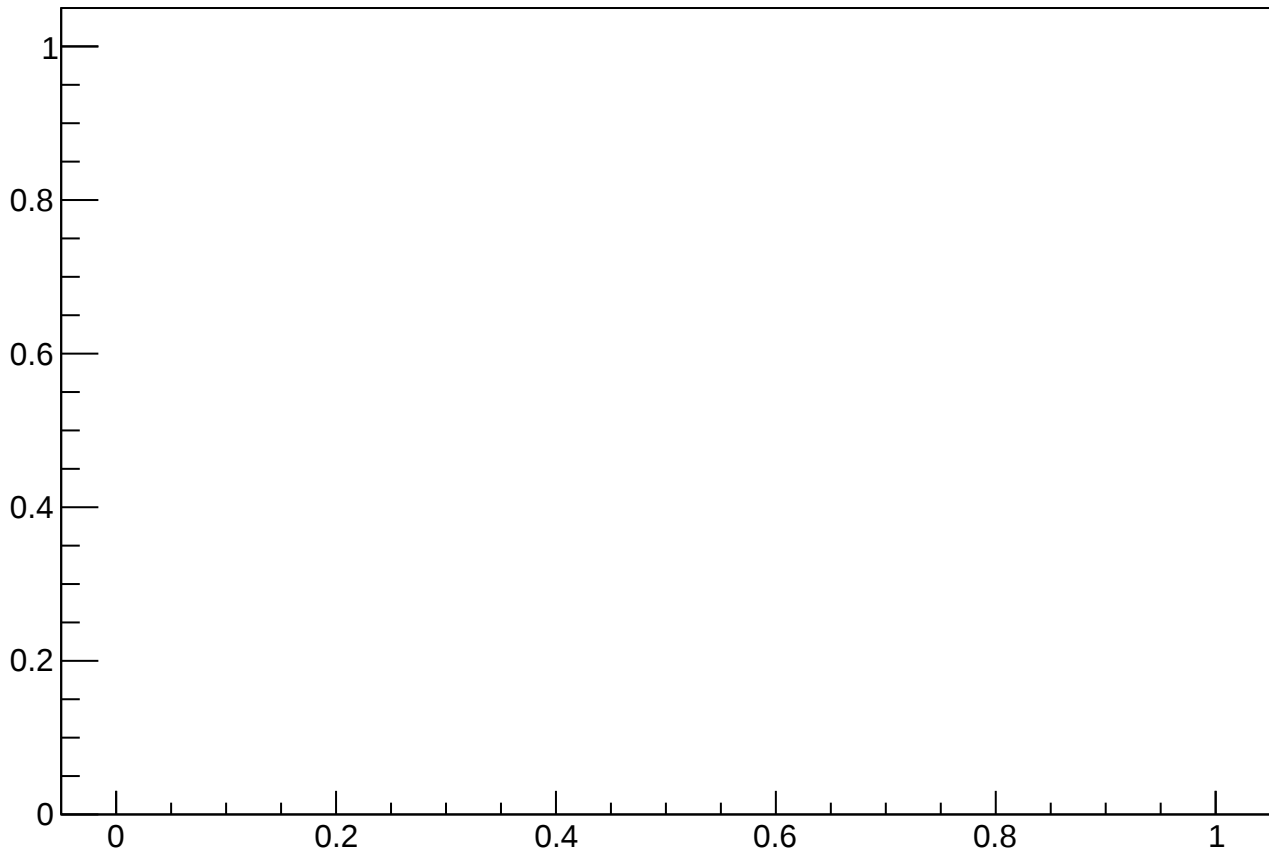
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

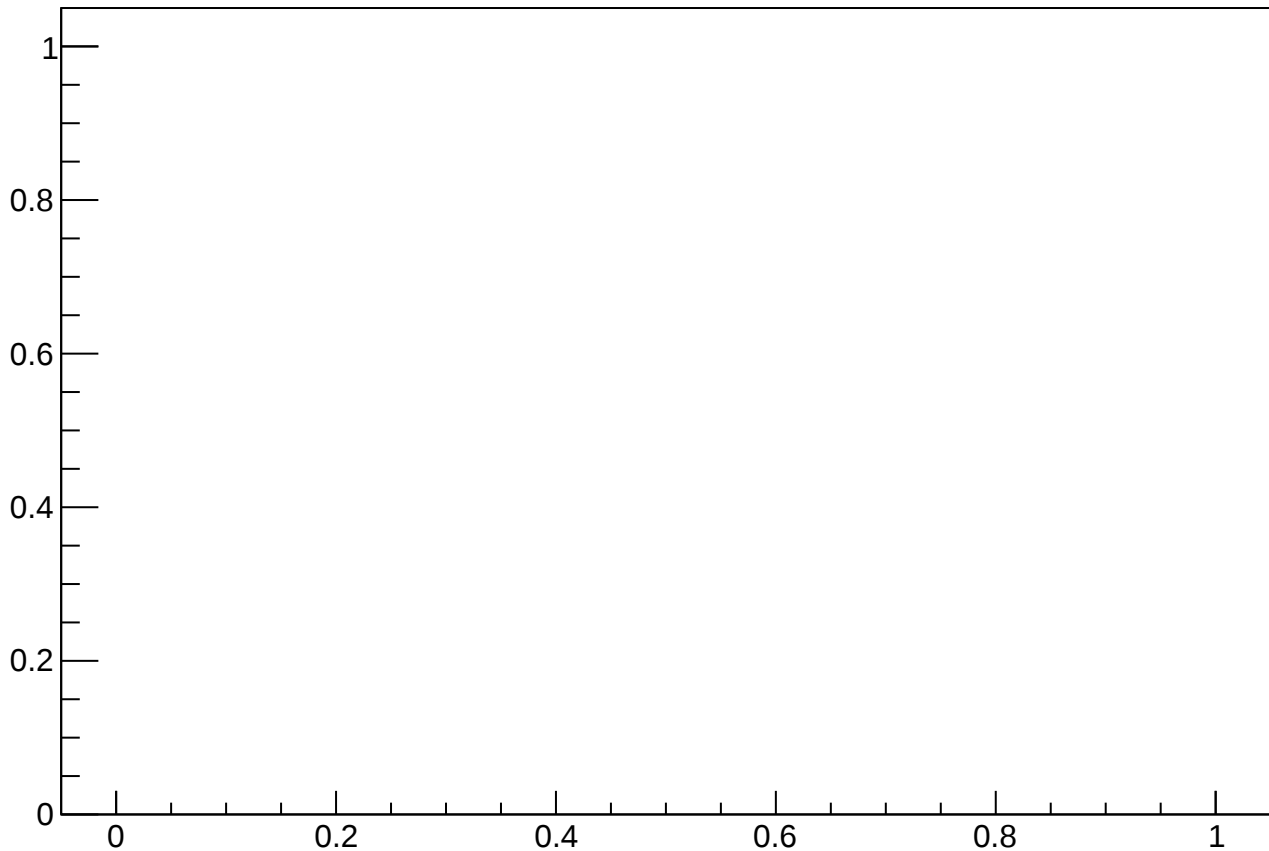
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

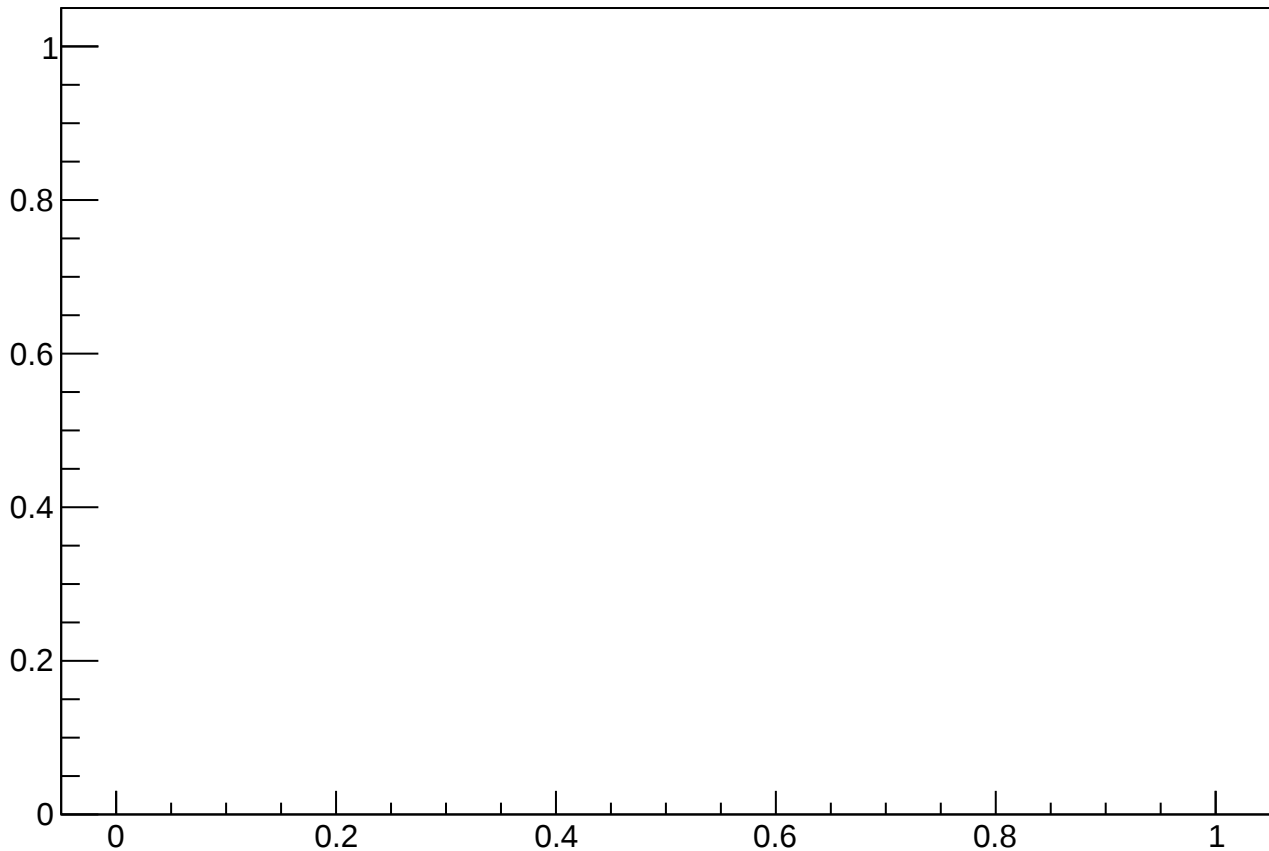
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

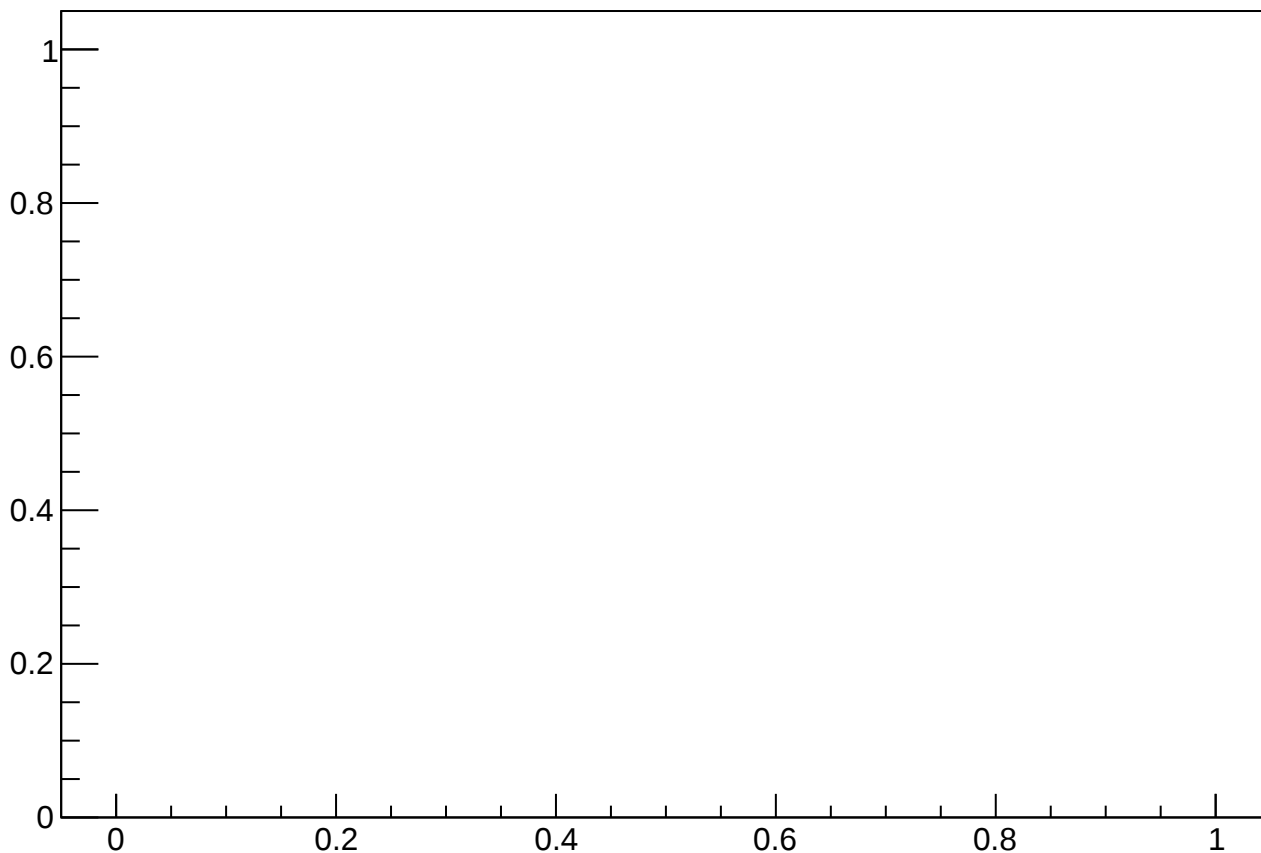
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

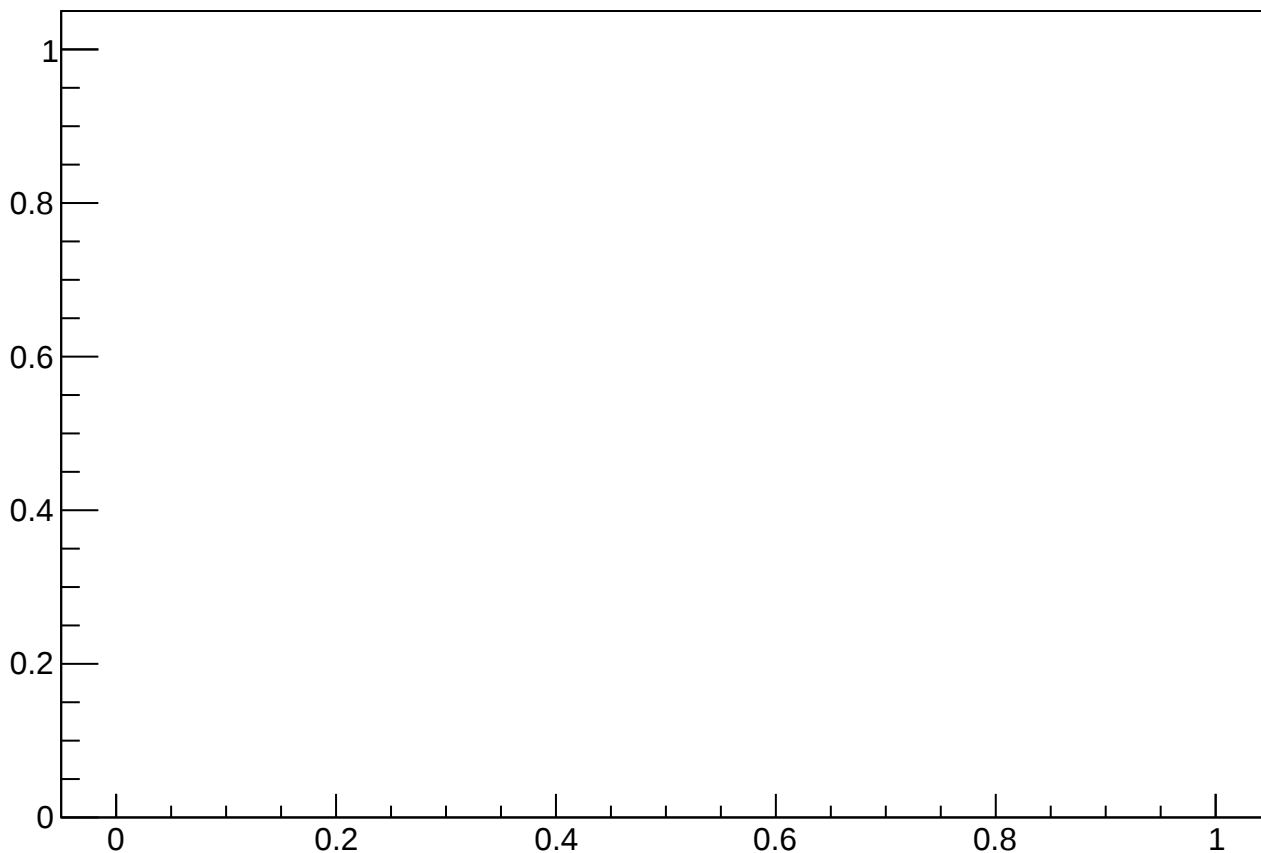
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

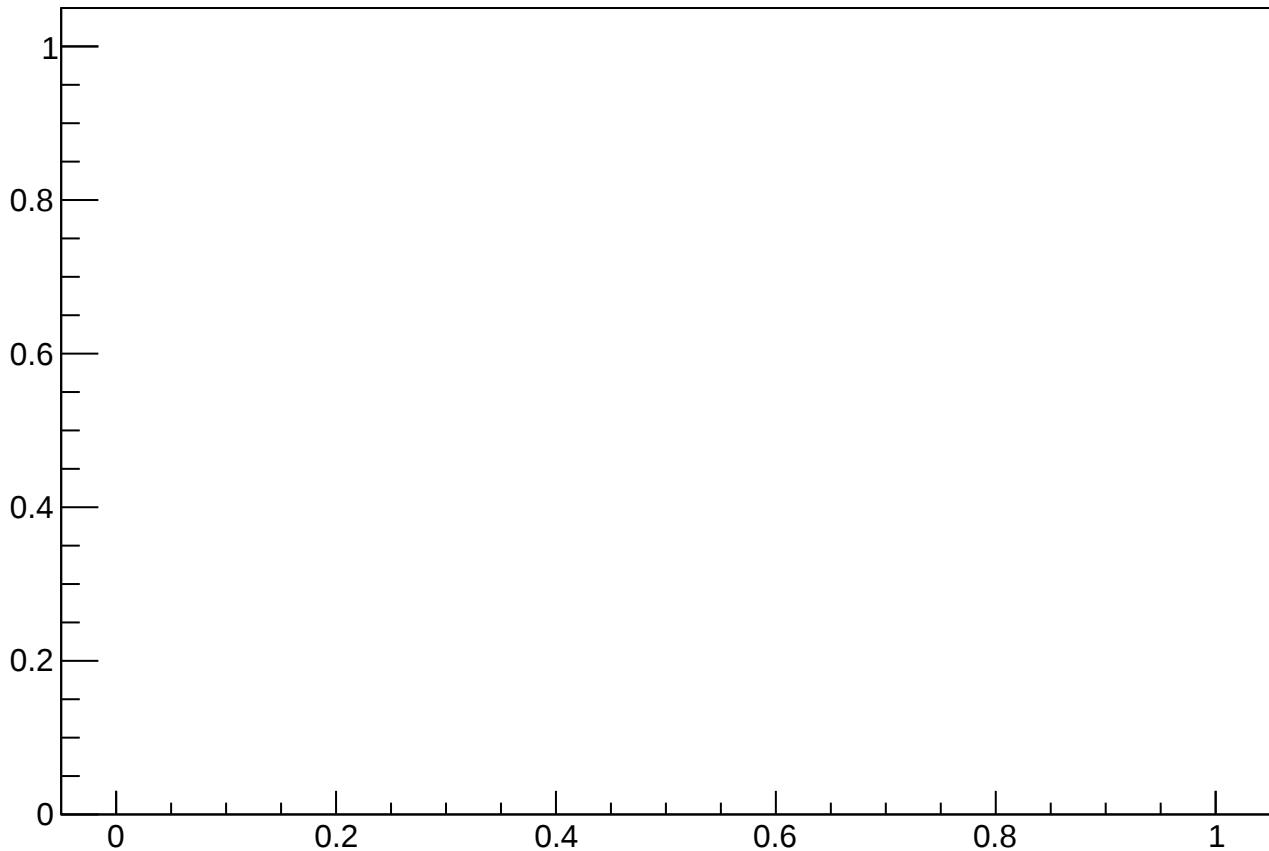
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

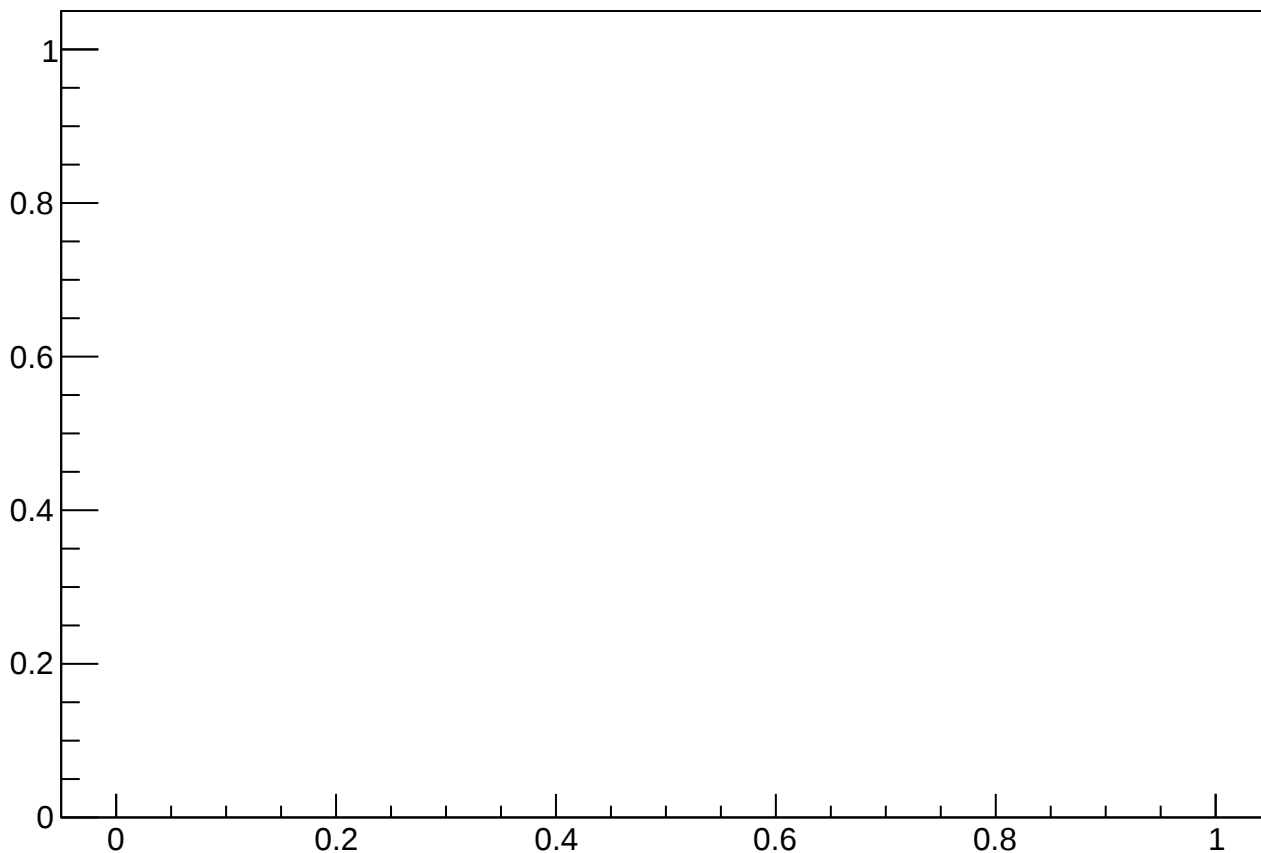
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

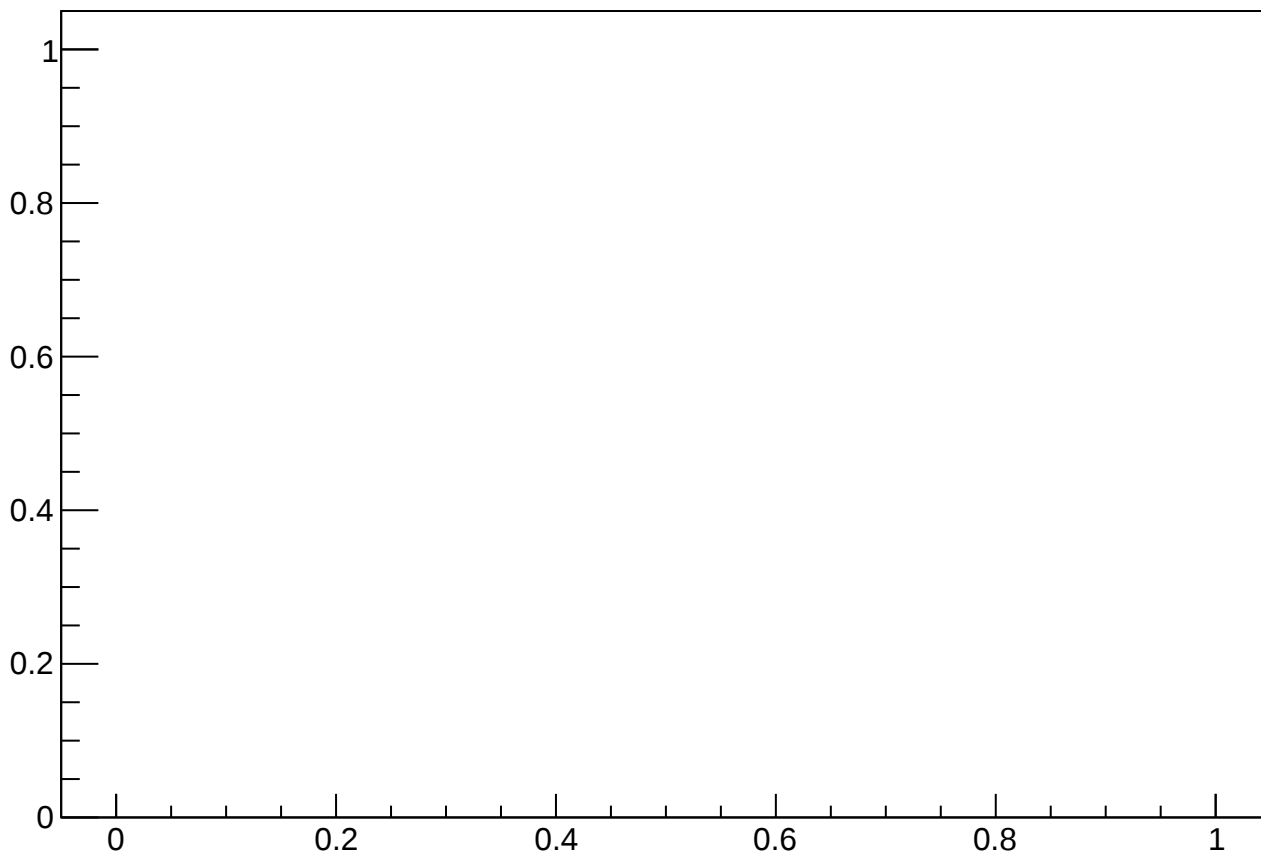
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

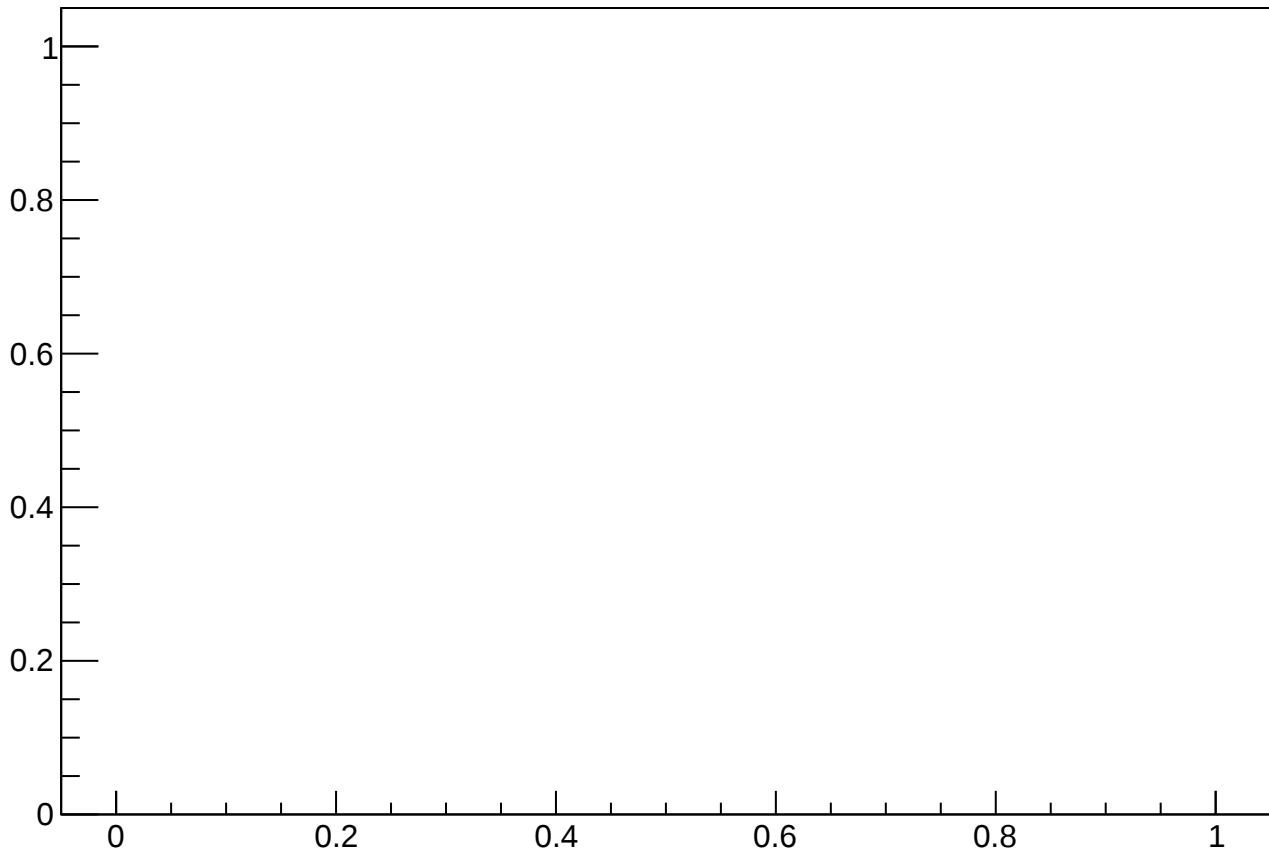
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

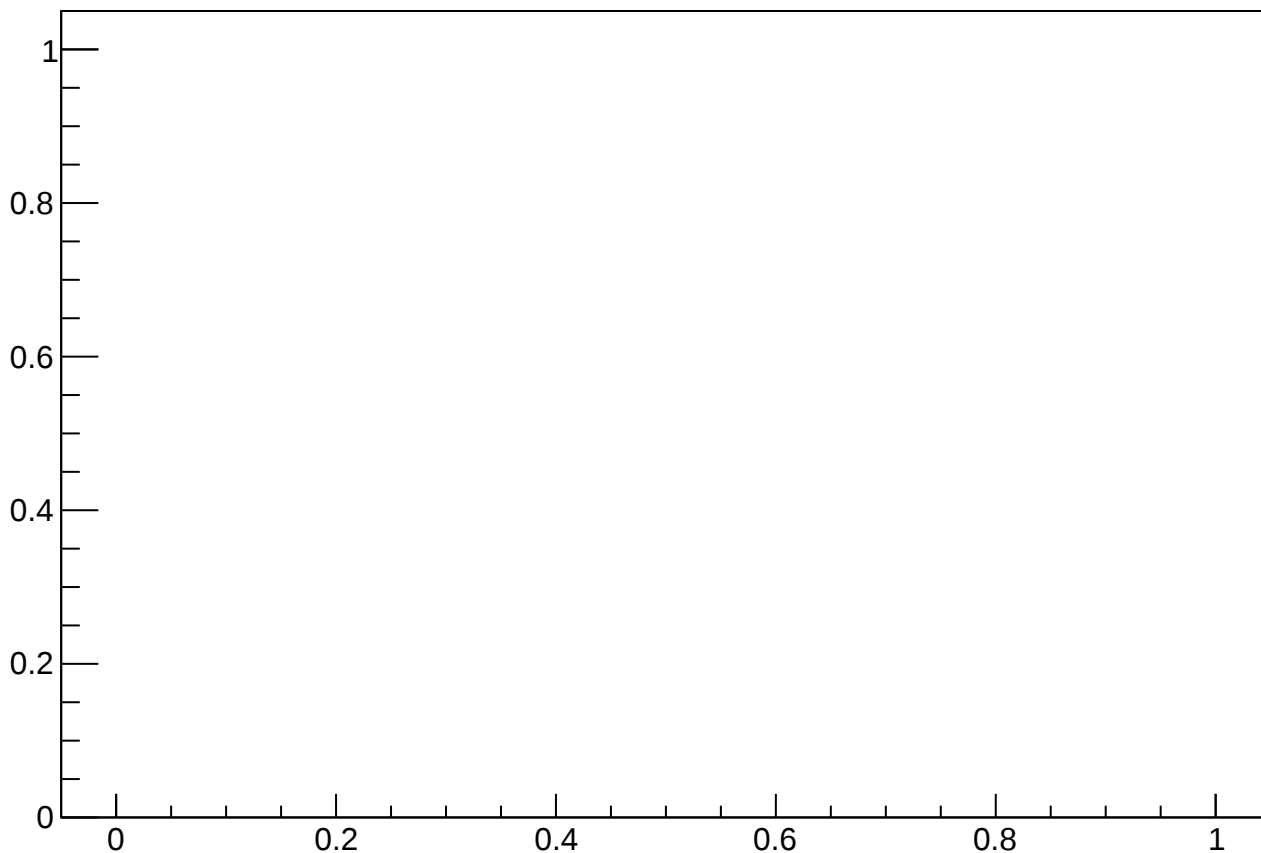
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

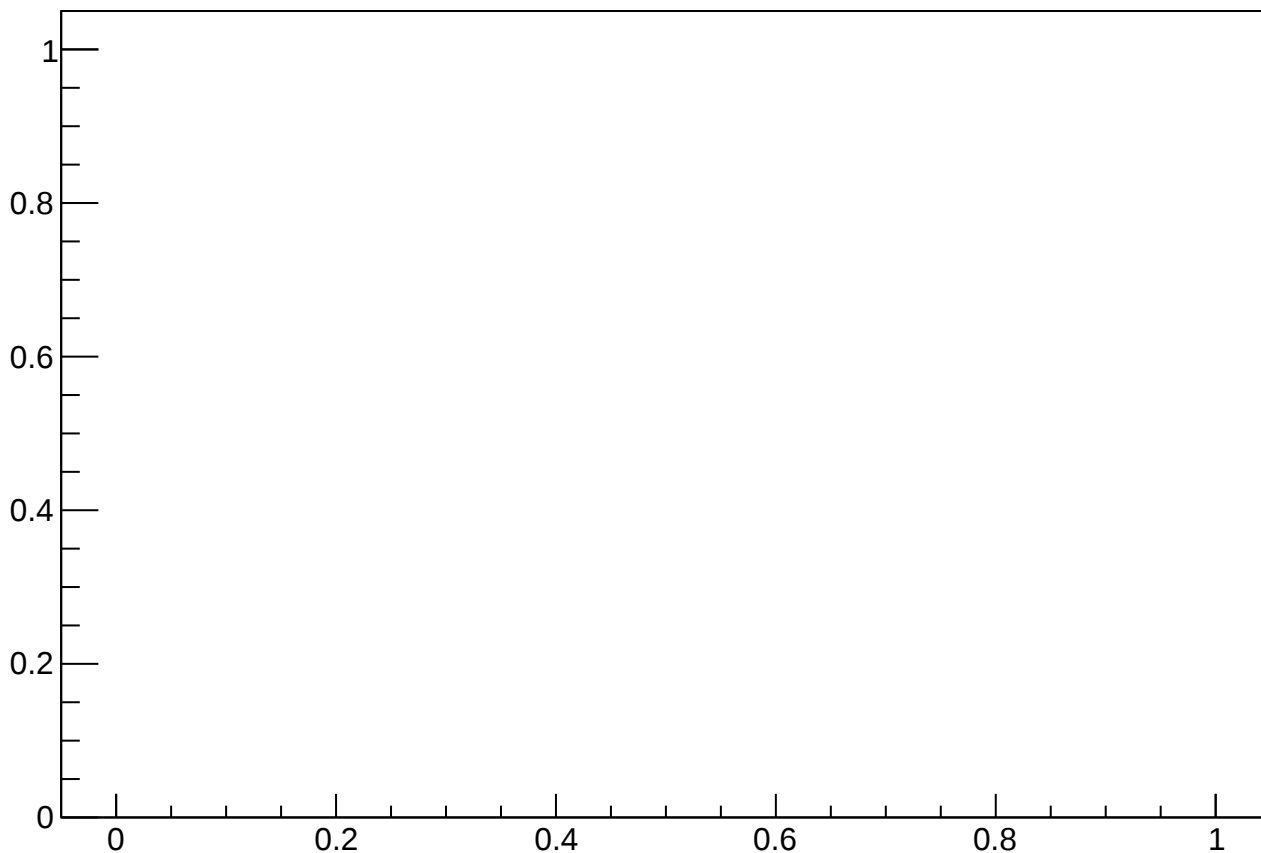
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

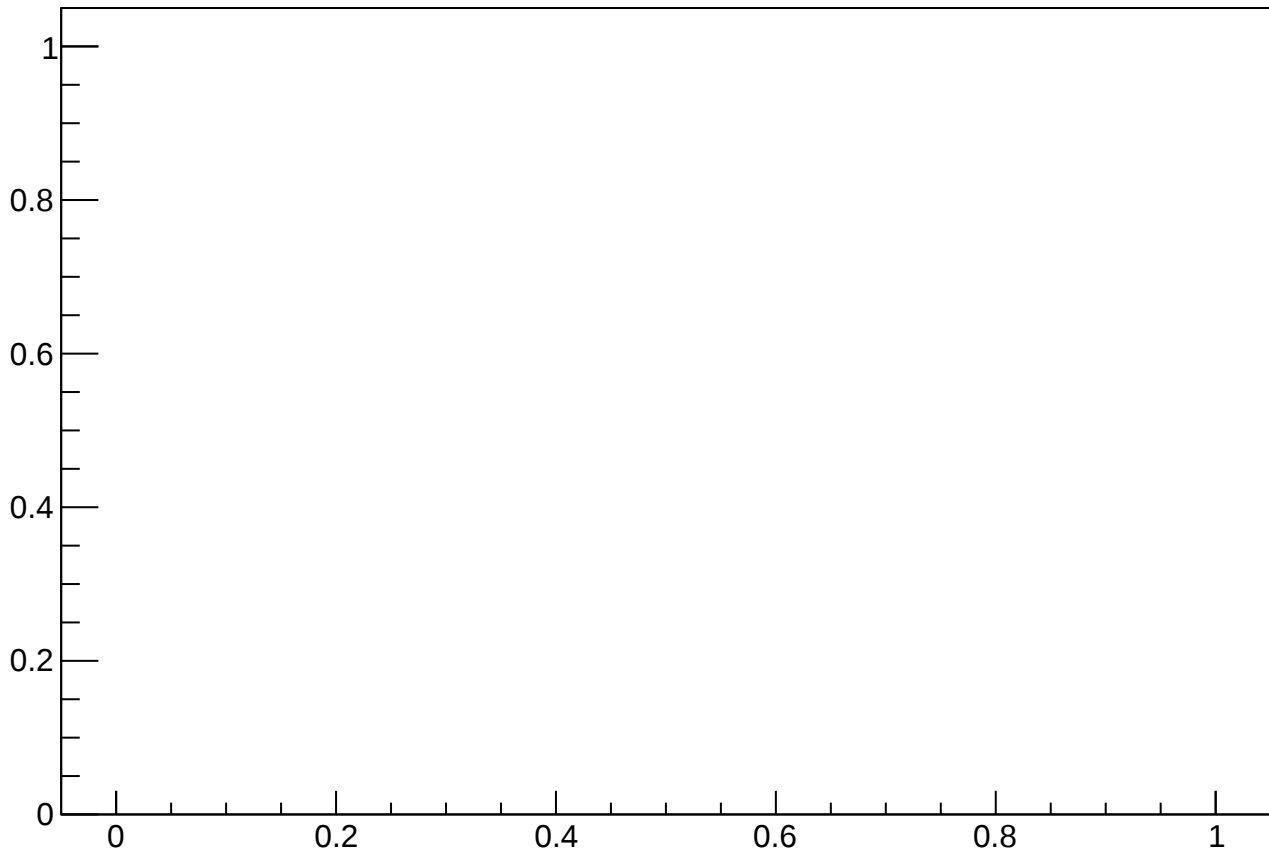
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

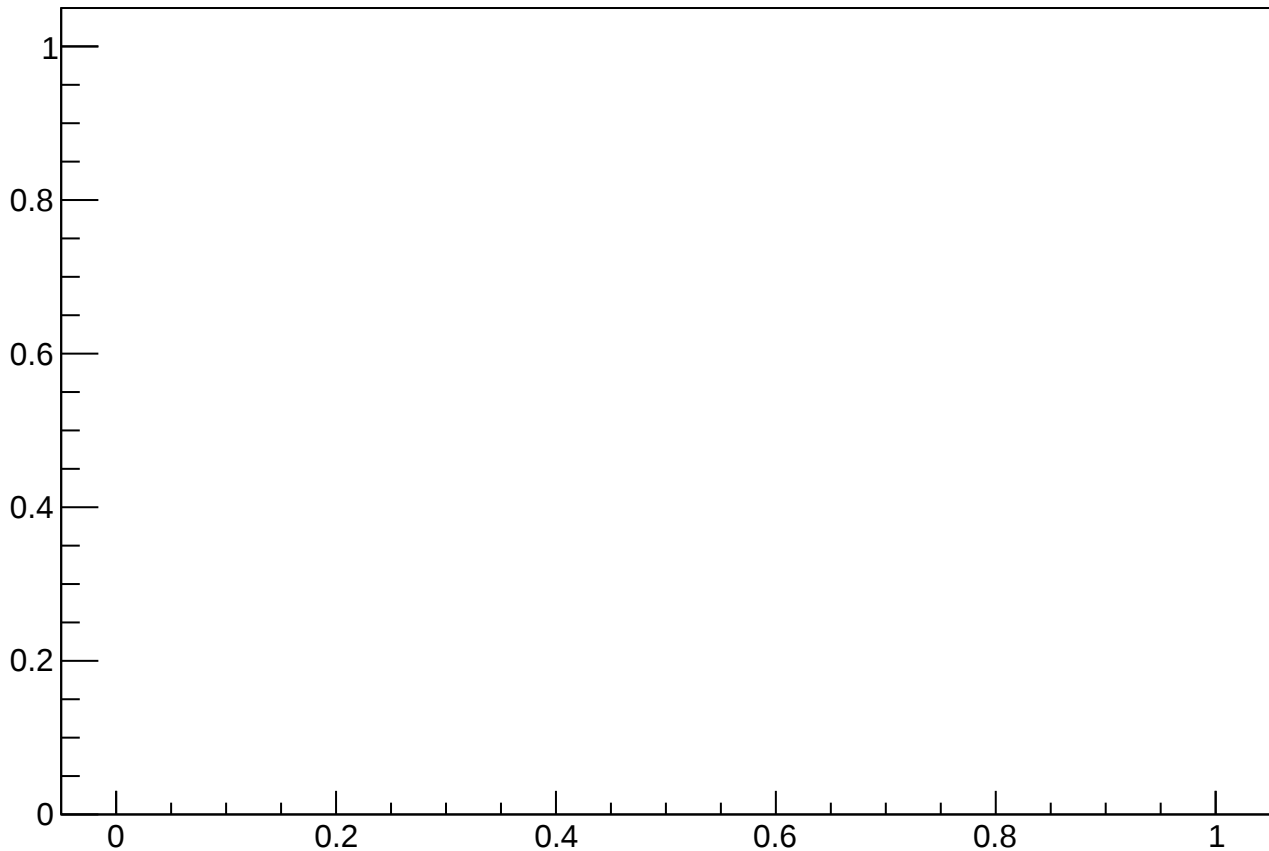
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

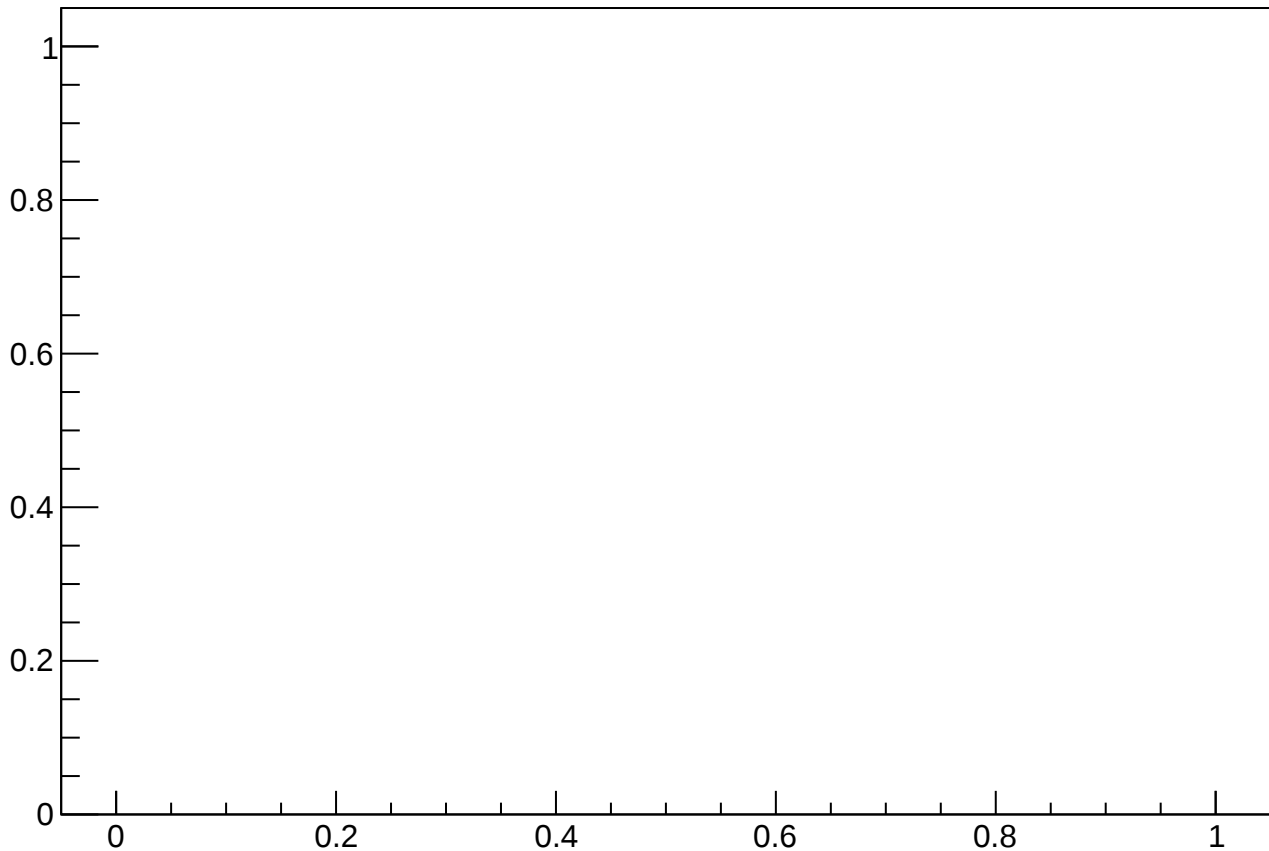
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil4\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

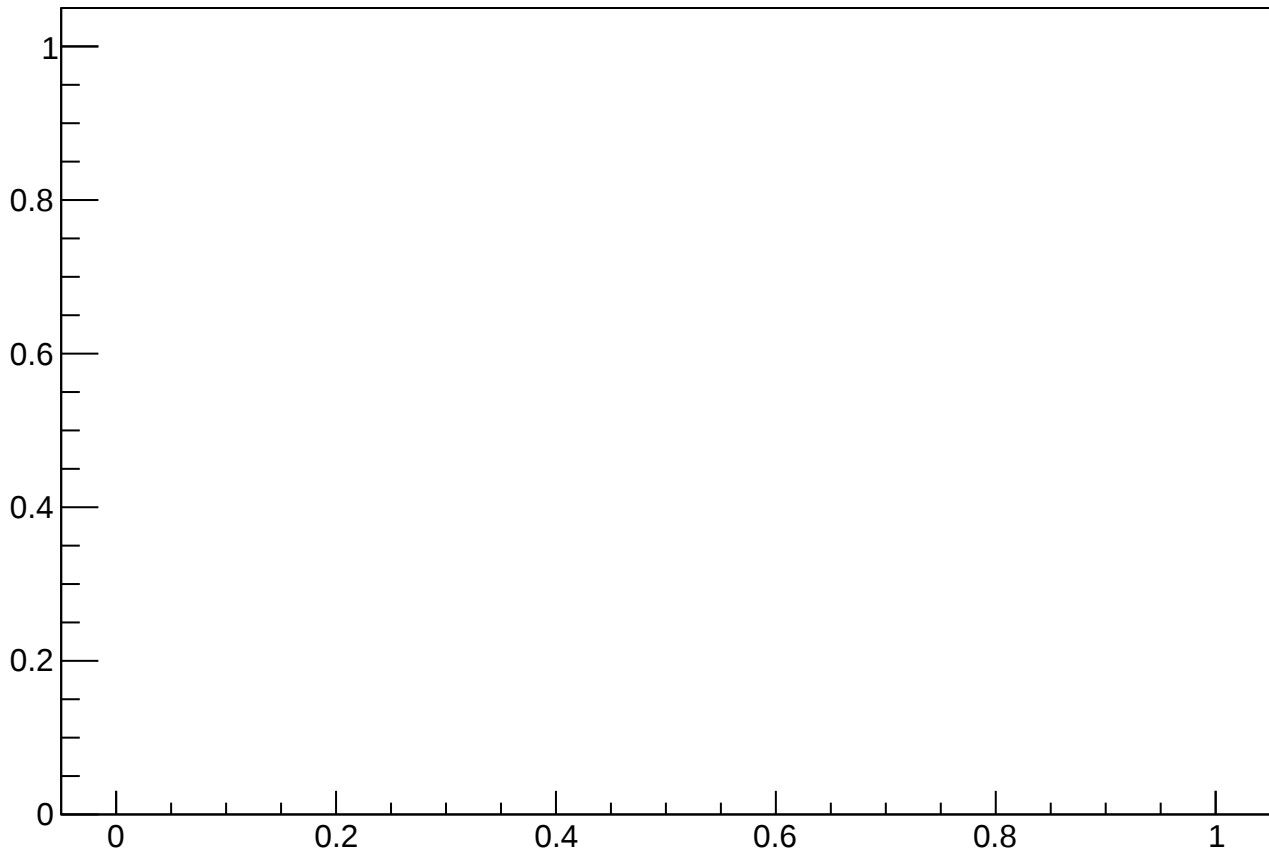
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil4\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

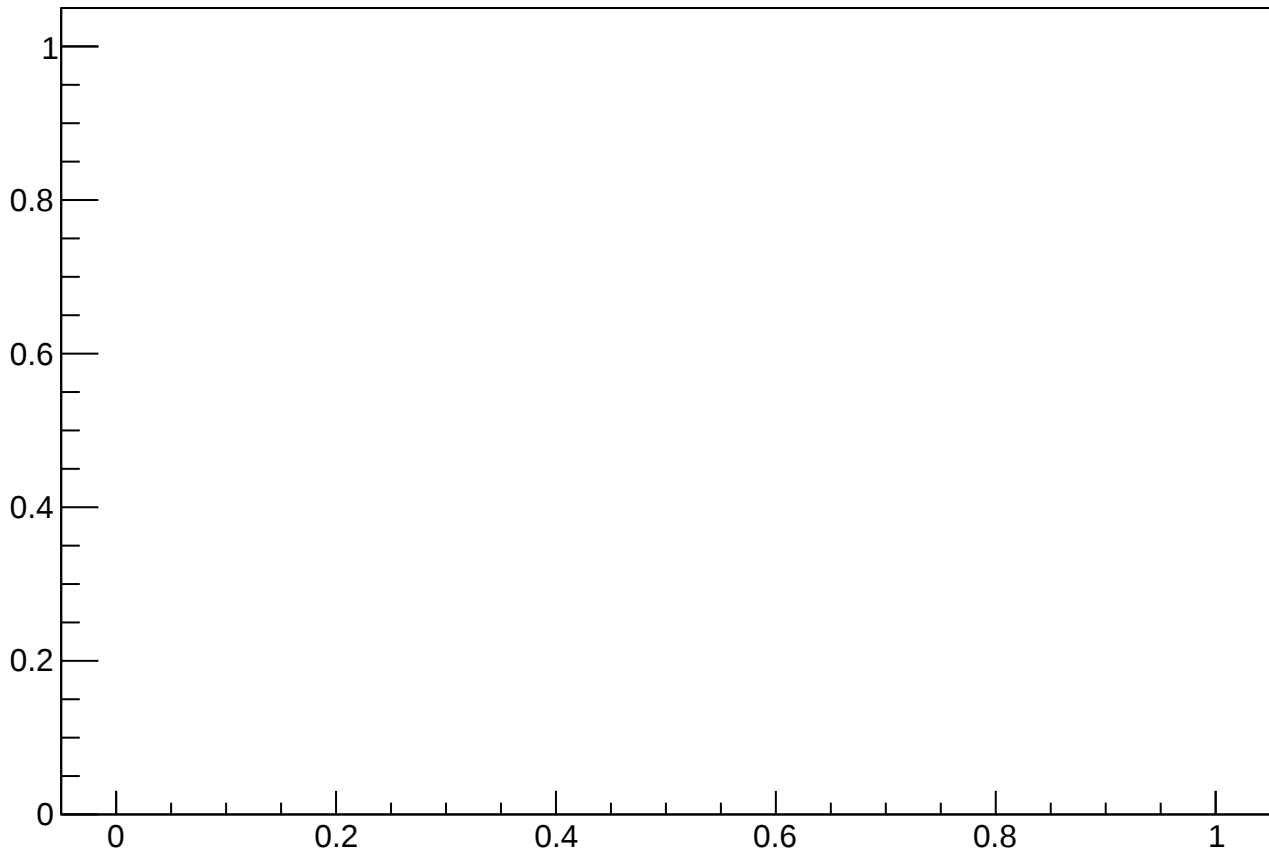
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil4\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

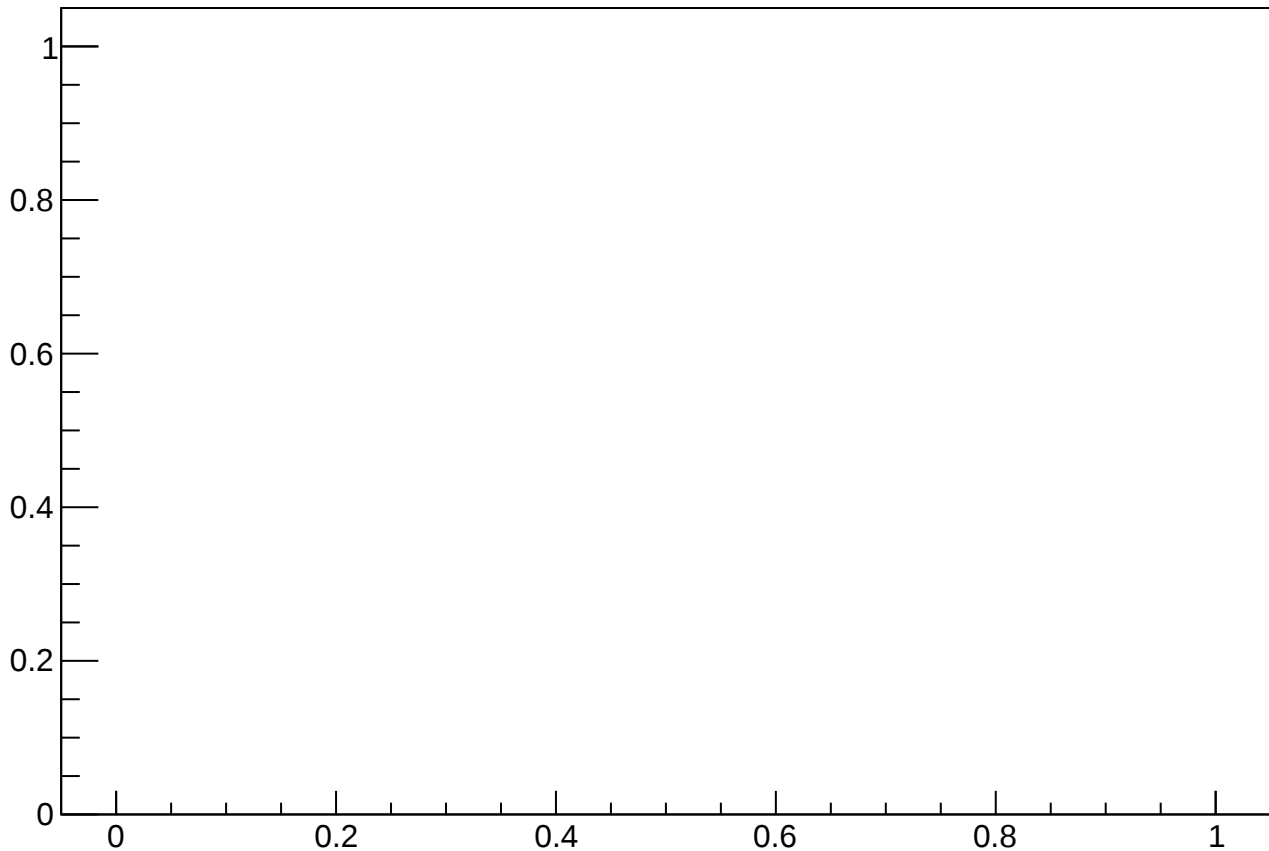
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

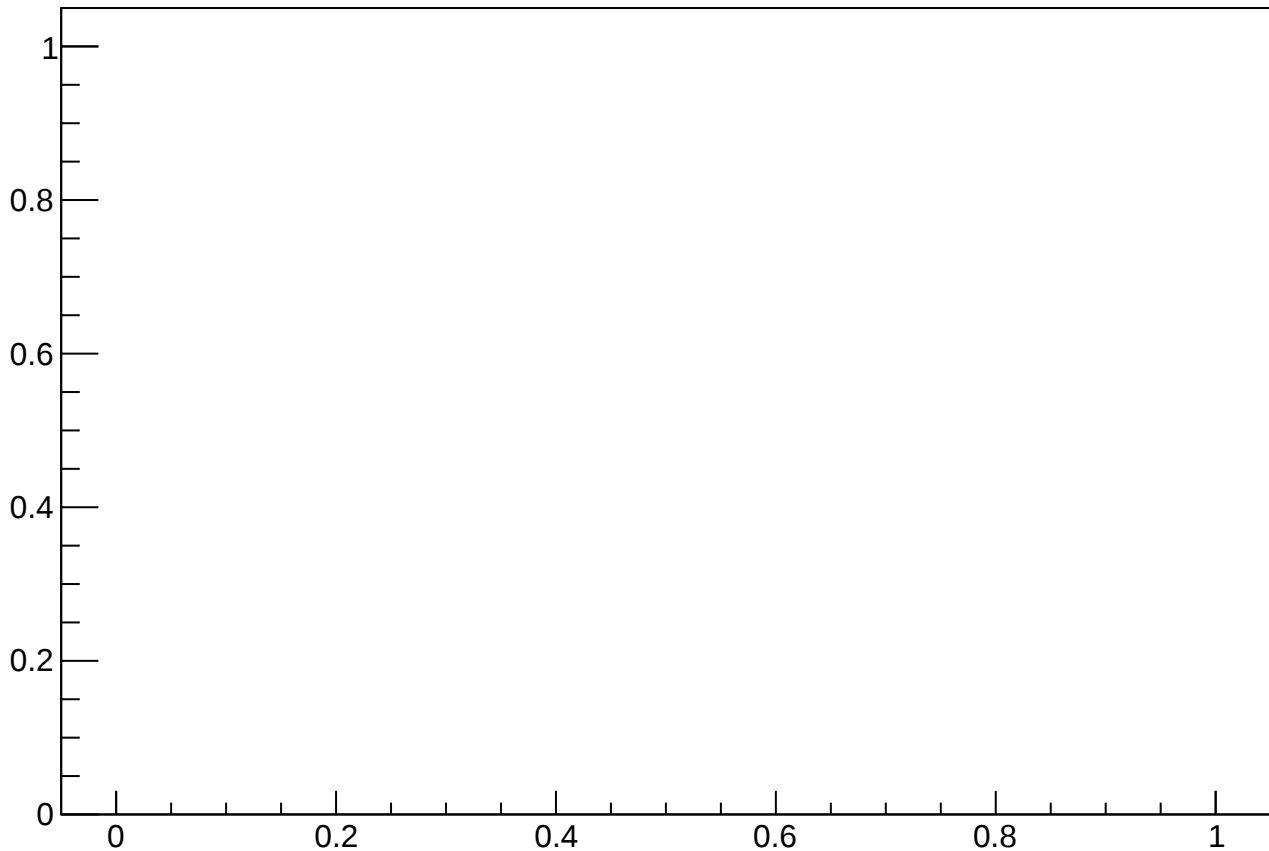
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aX\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

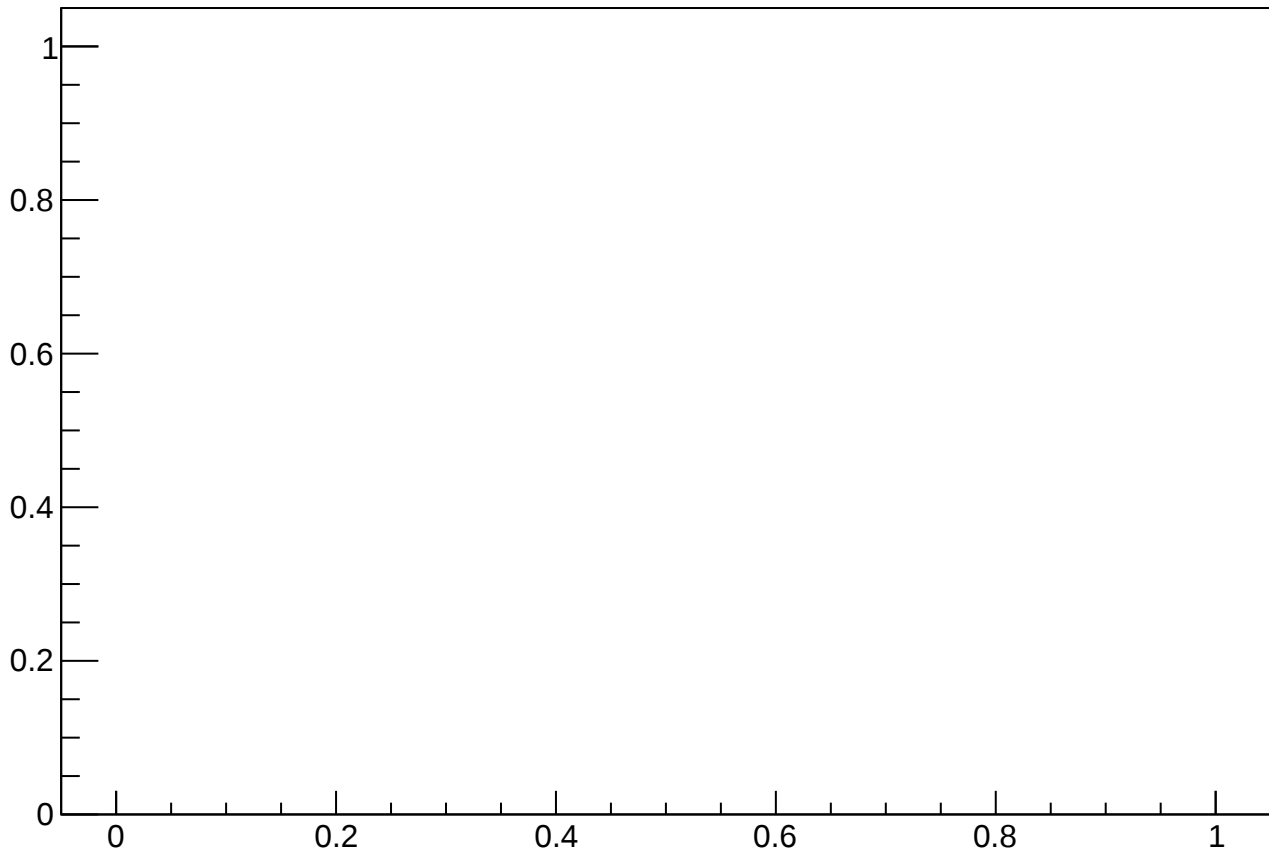
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

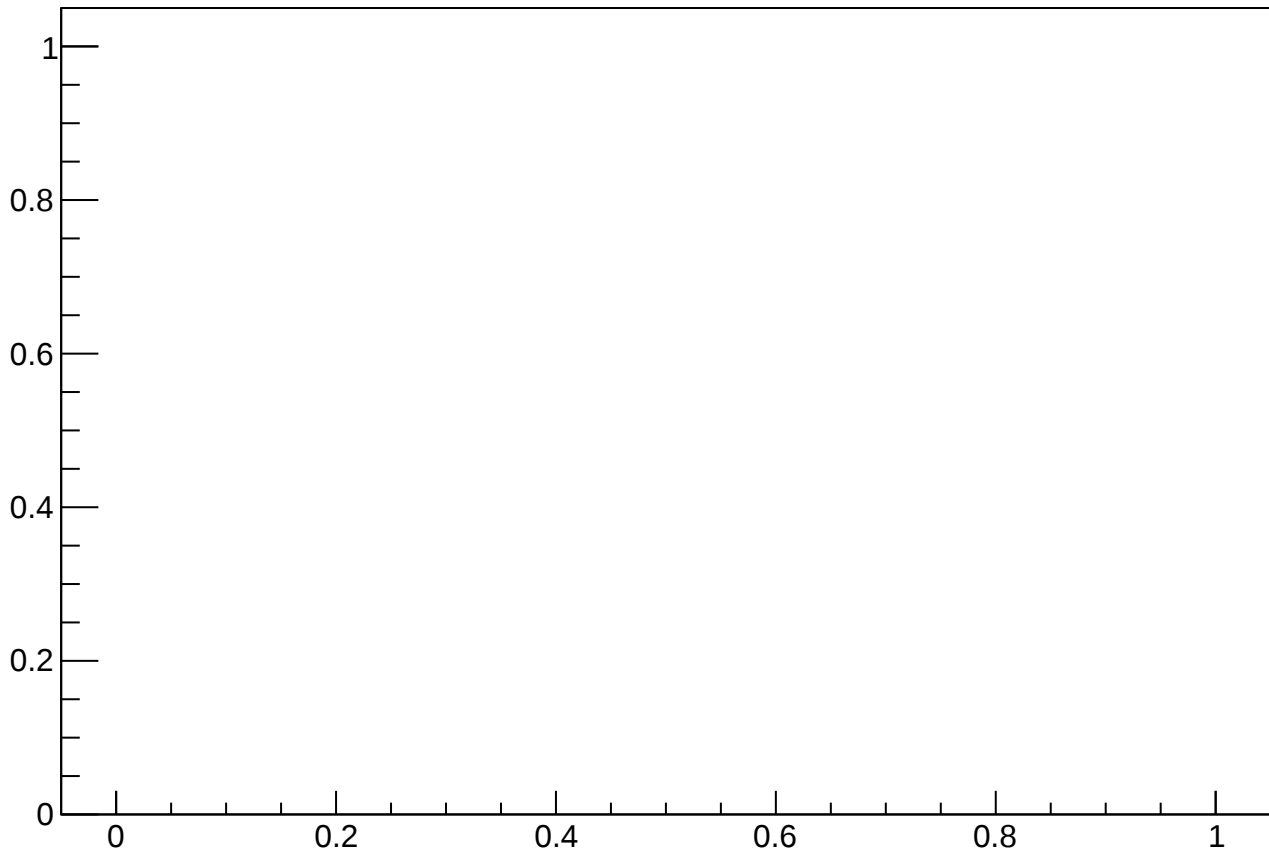
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

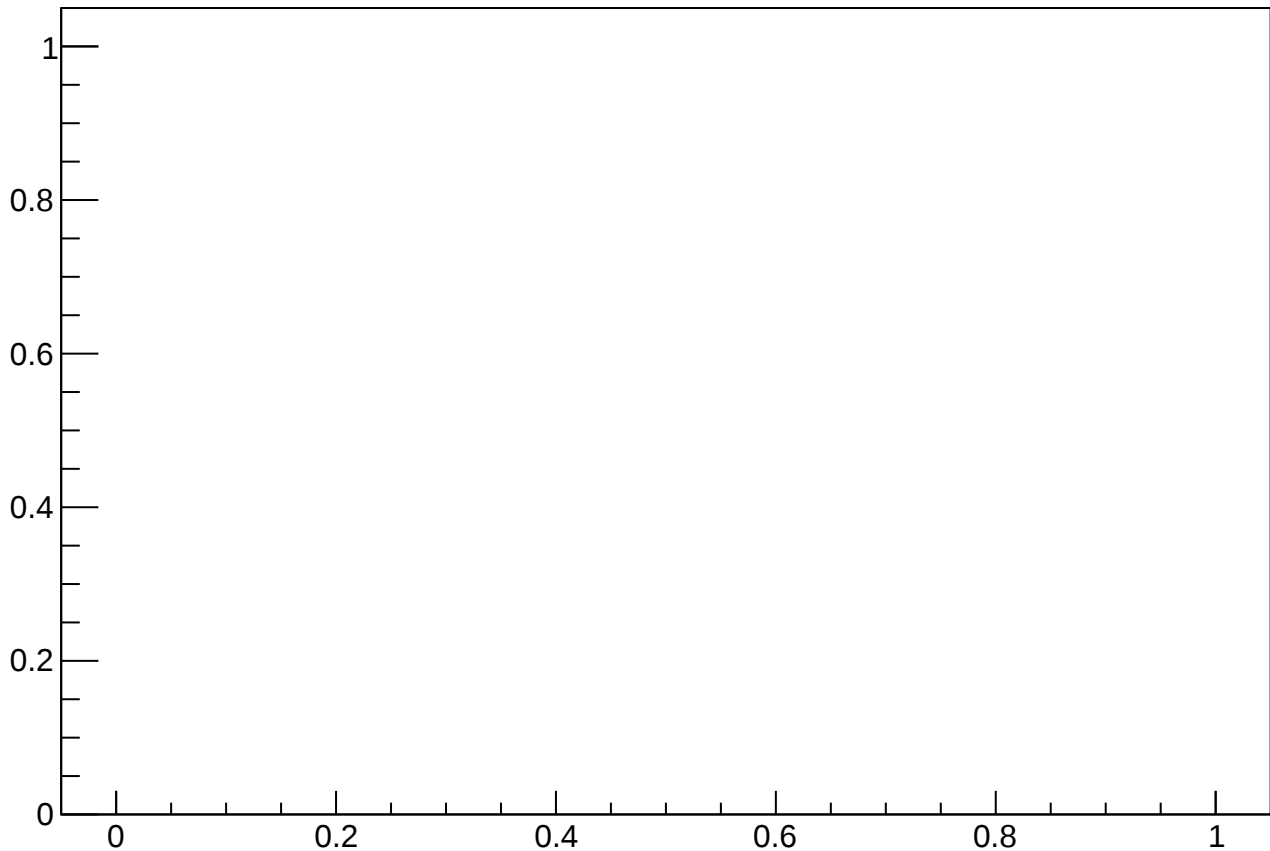
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eX\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

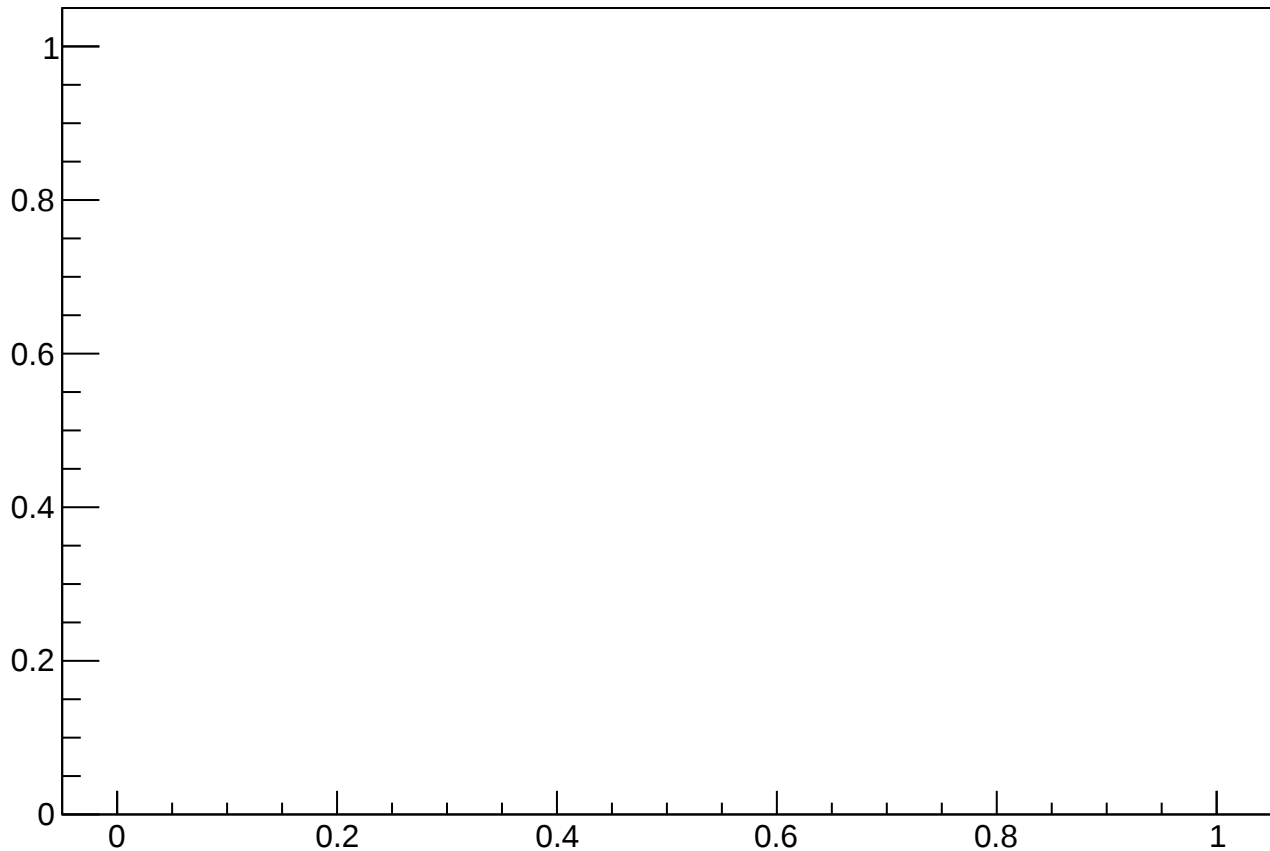
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eX\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

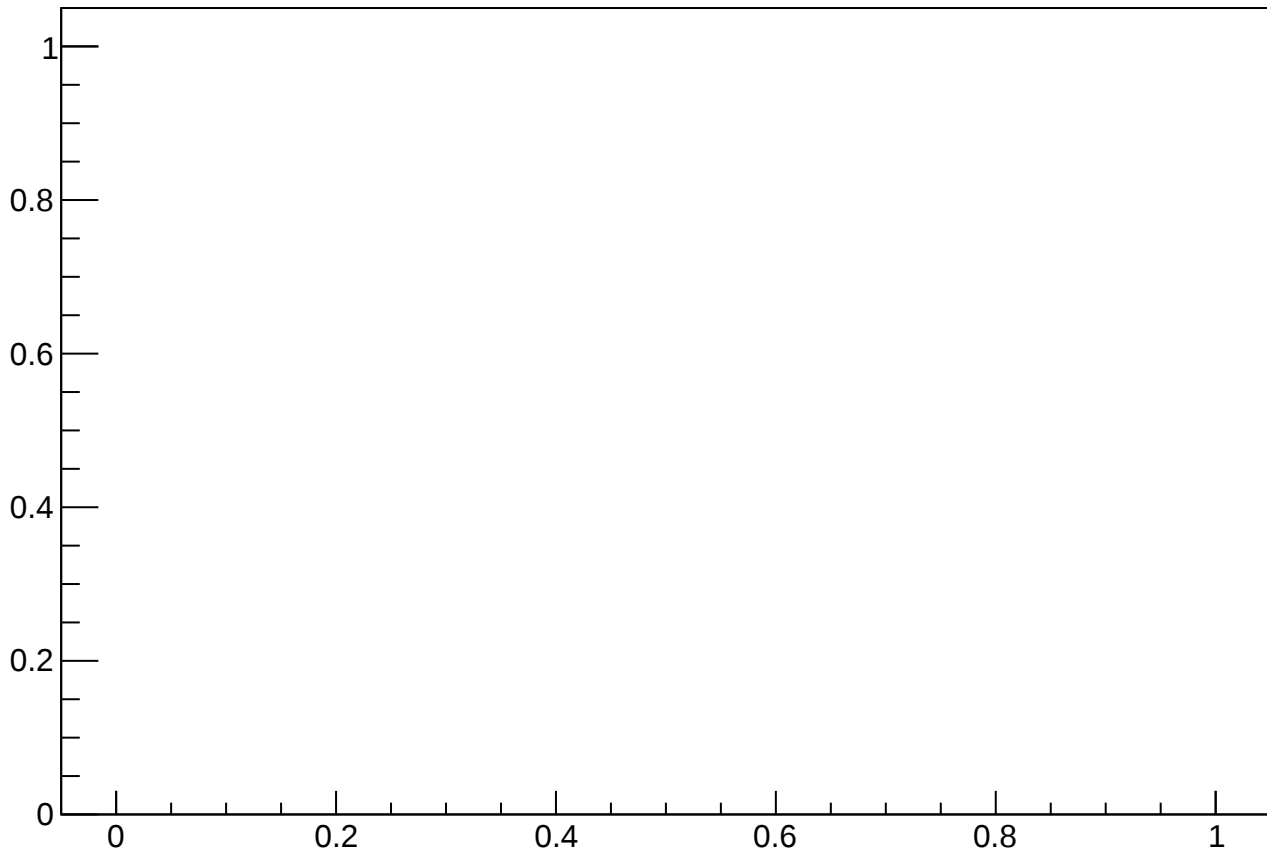
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_11X12X\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

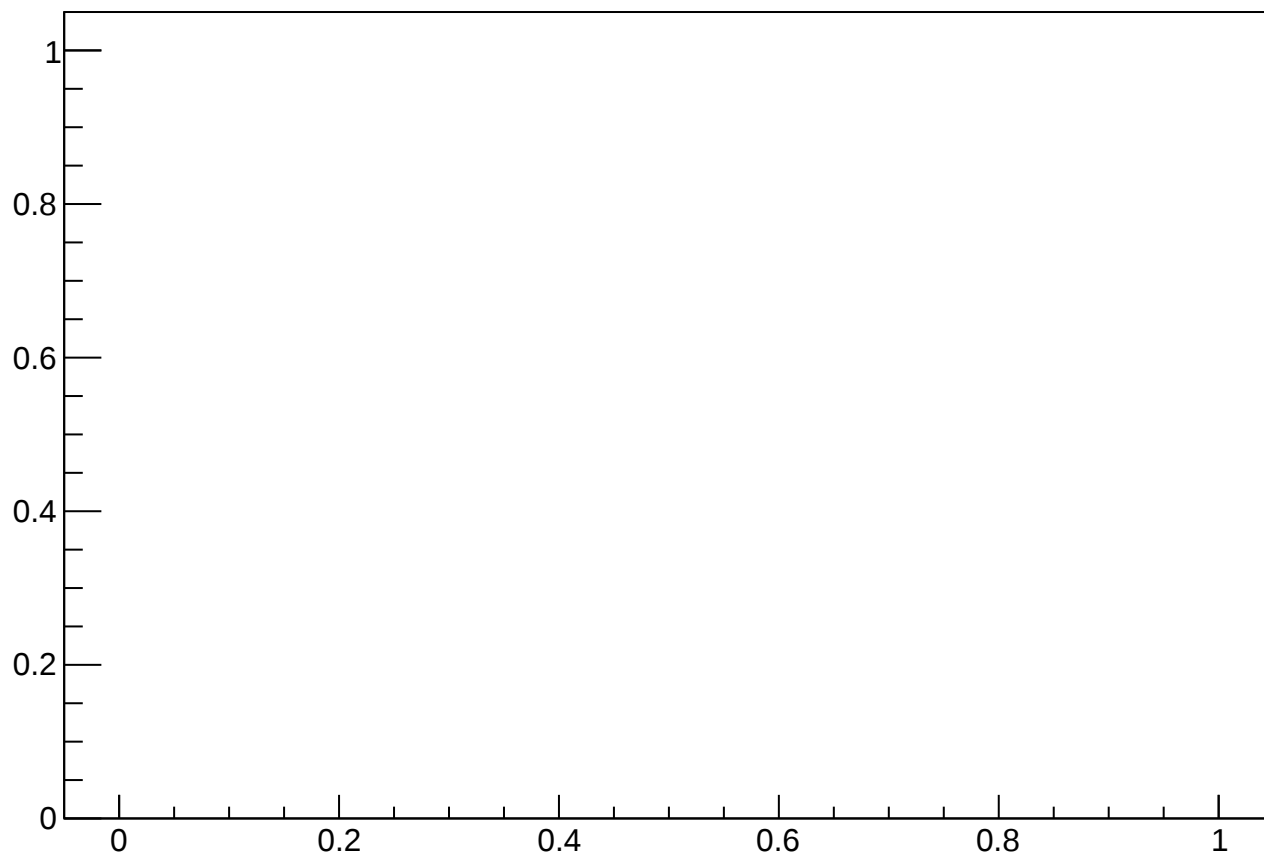
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

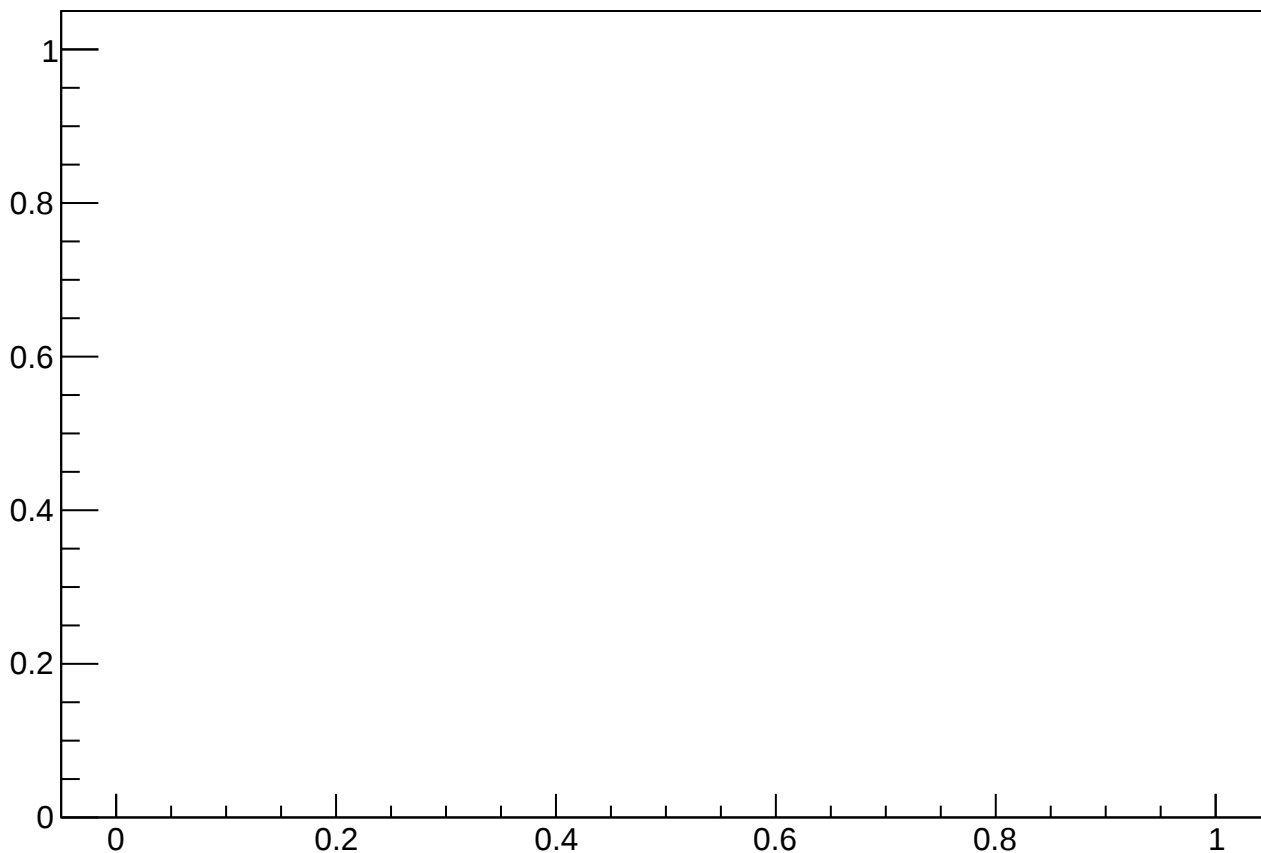
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_11X12X\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

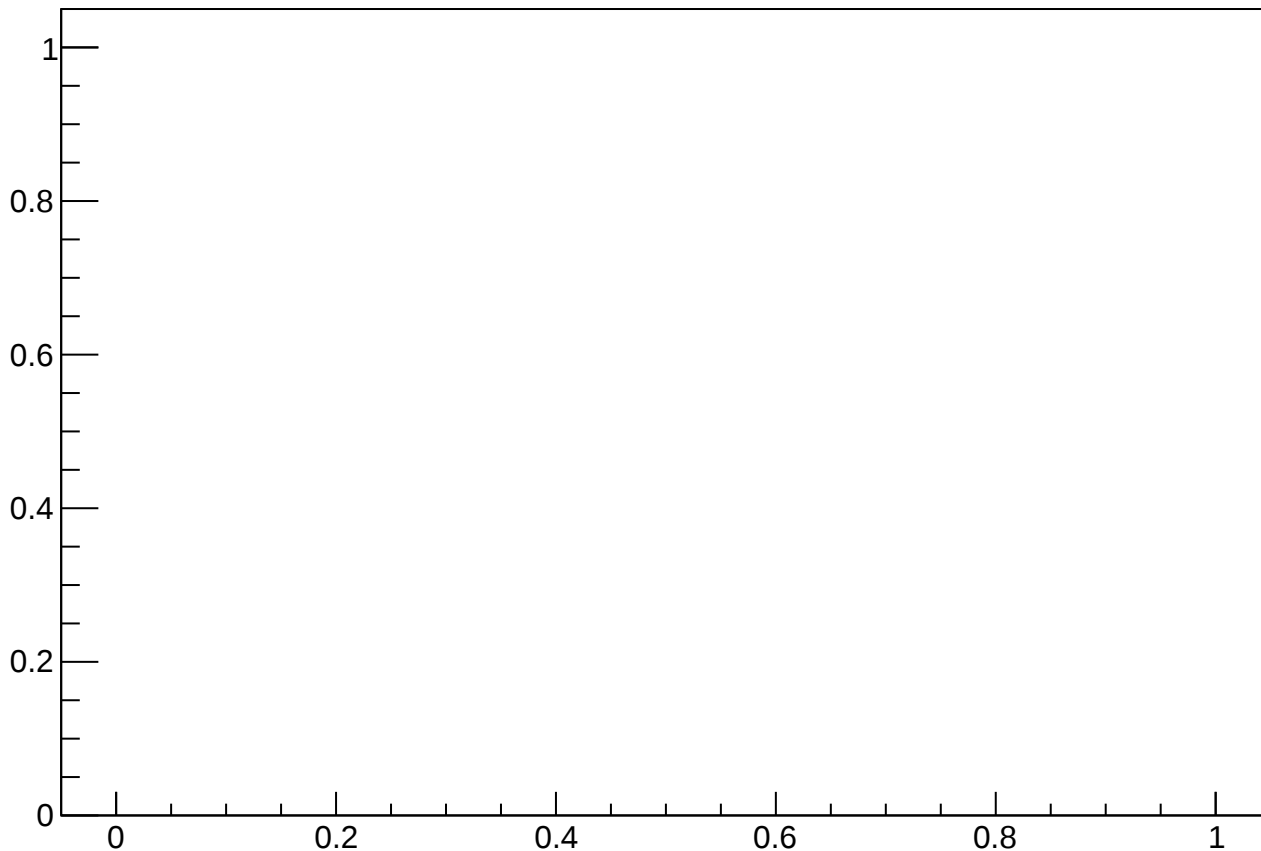
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aY\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

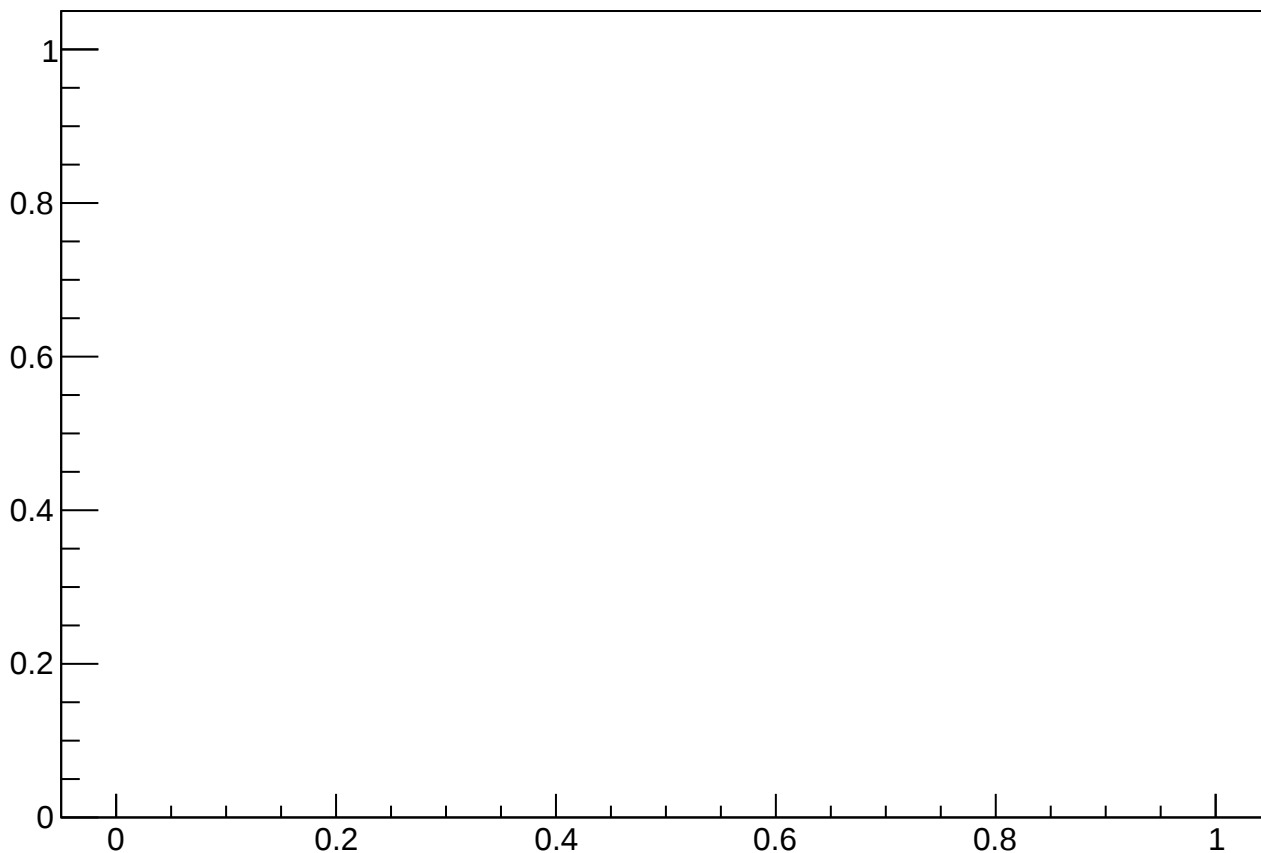
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4aY\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

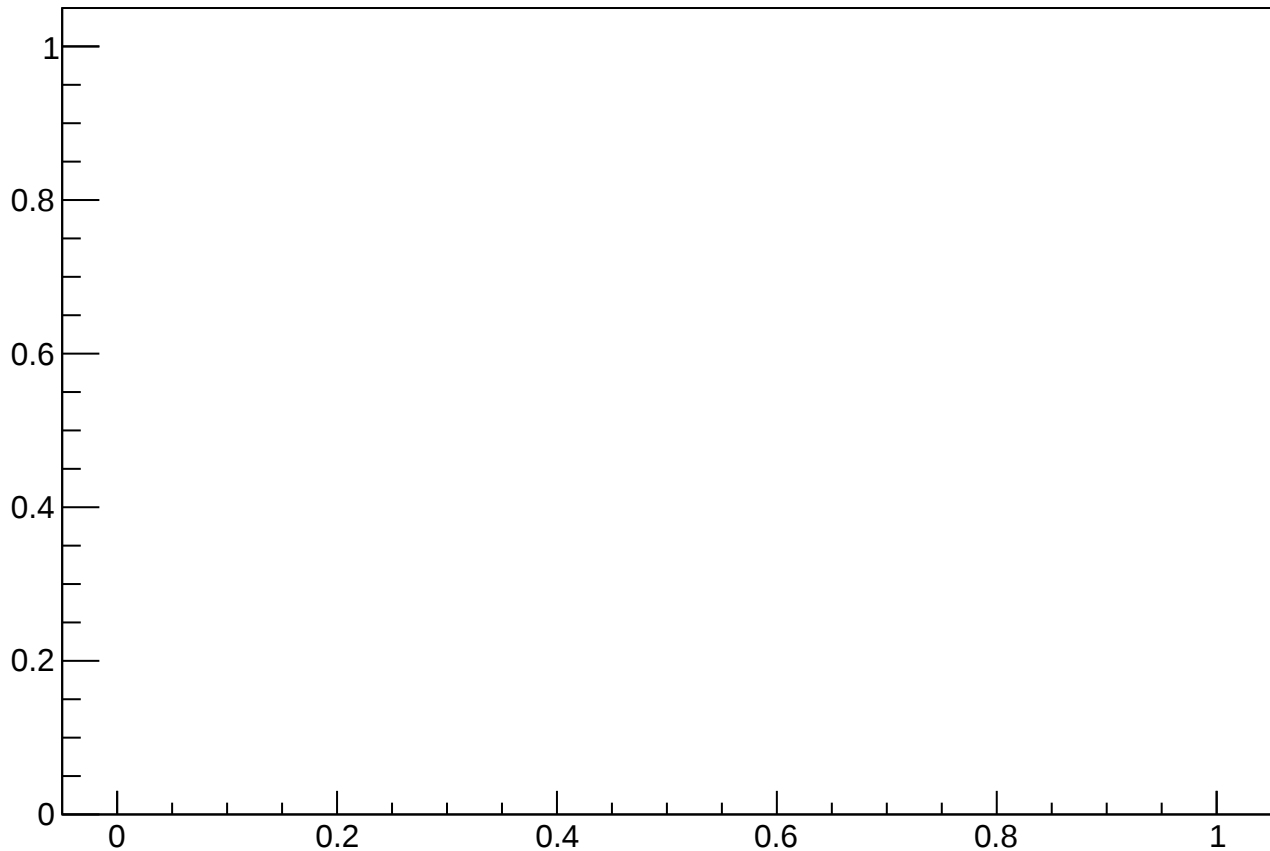
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4aY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

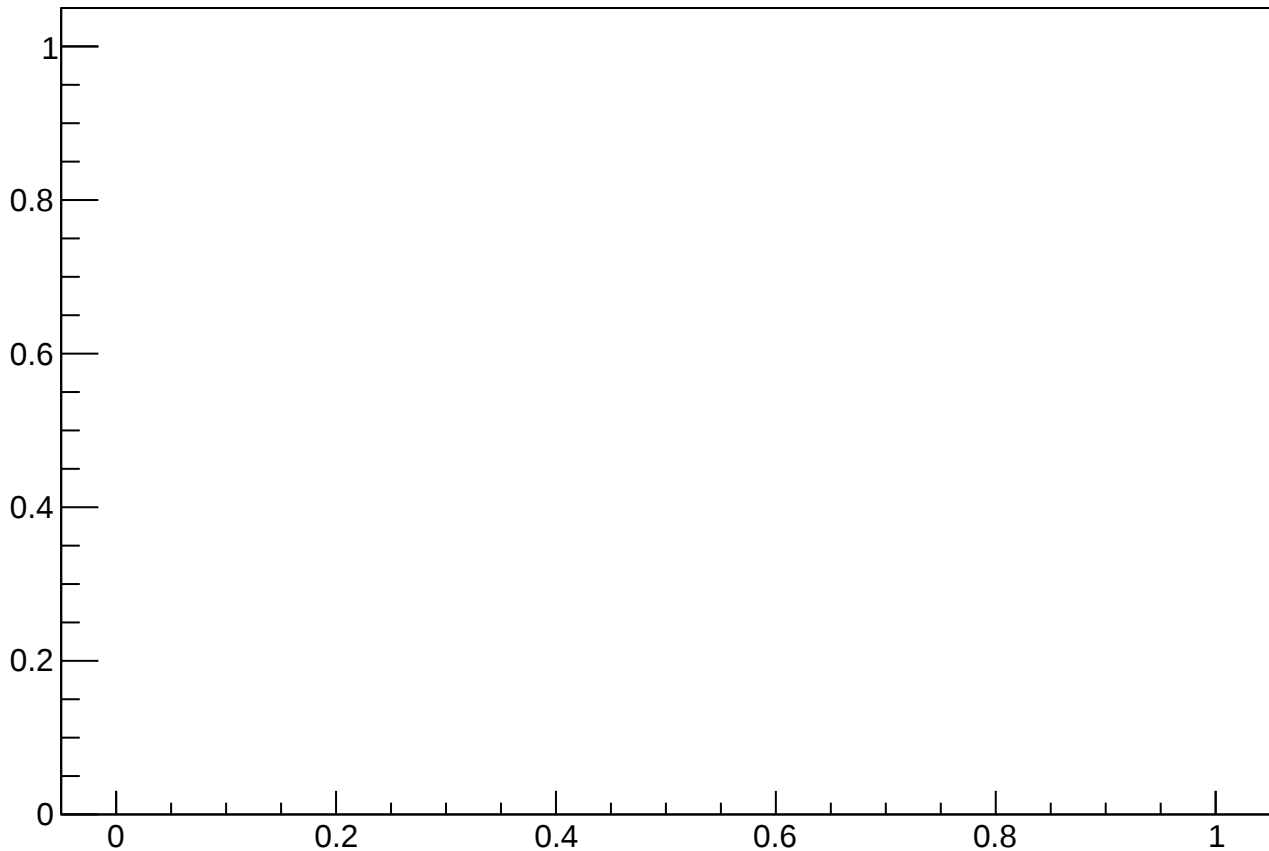
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_4eY\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

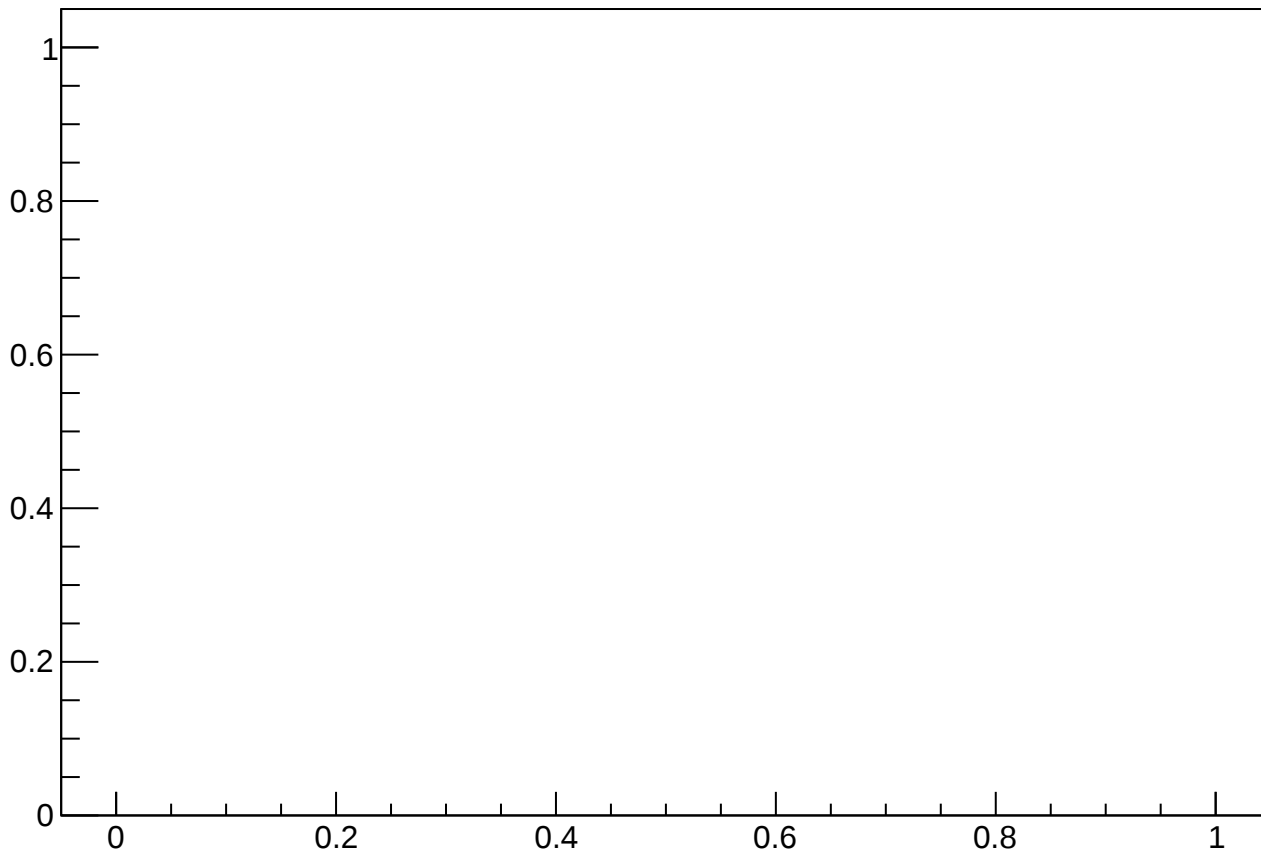
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

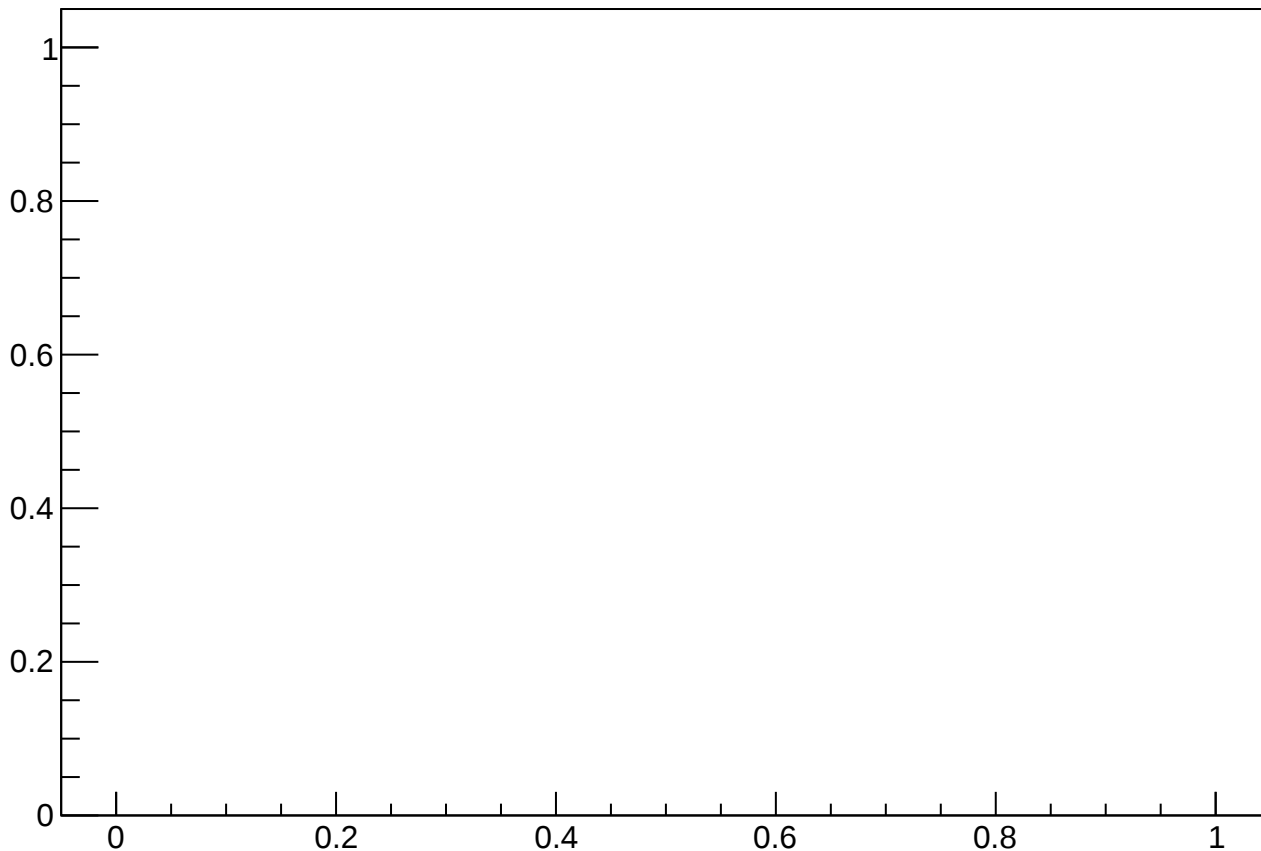
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_4eY\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

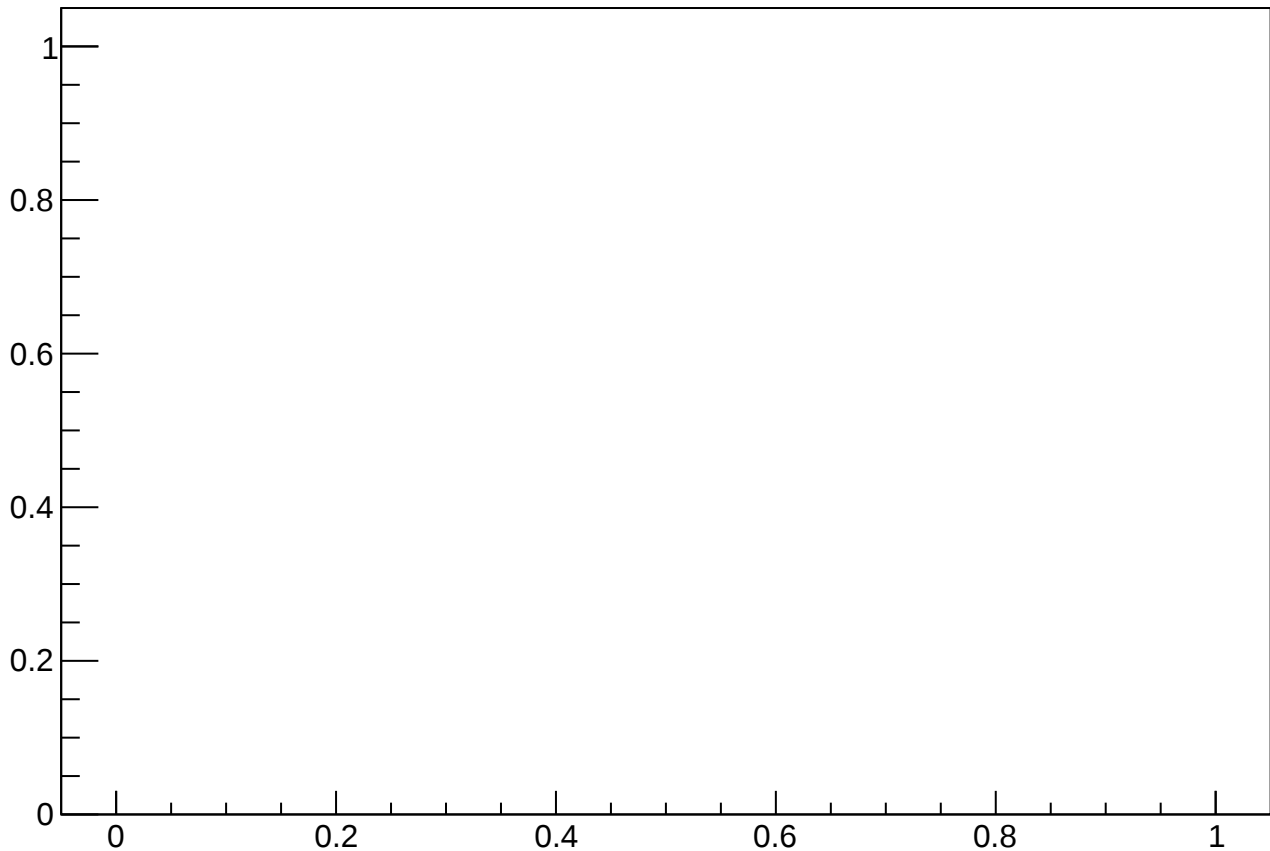
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usl\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

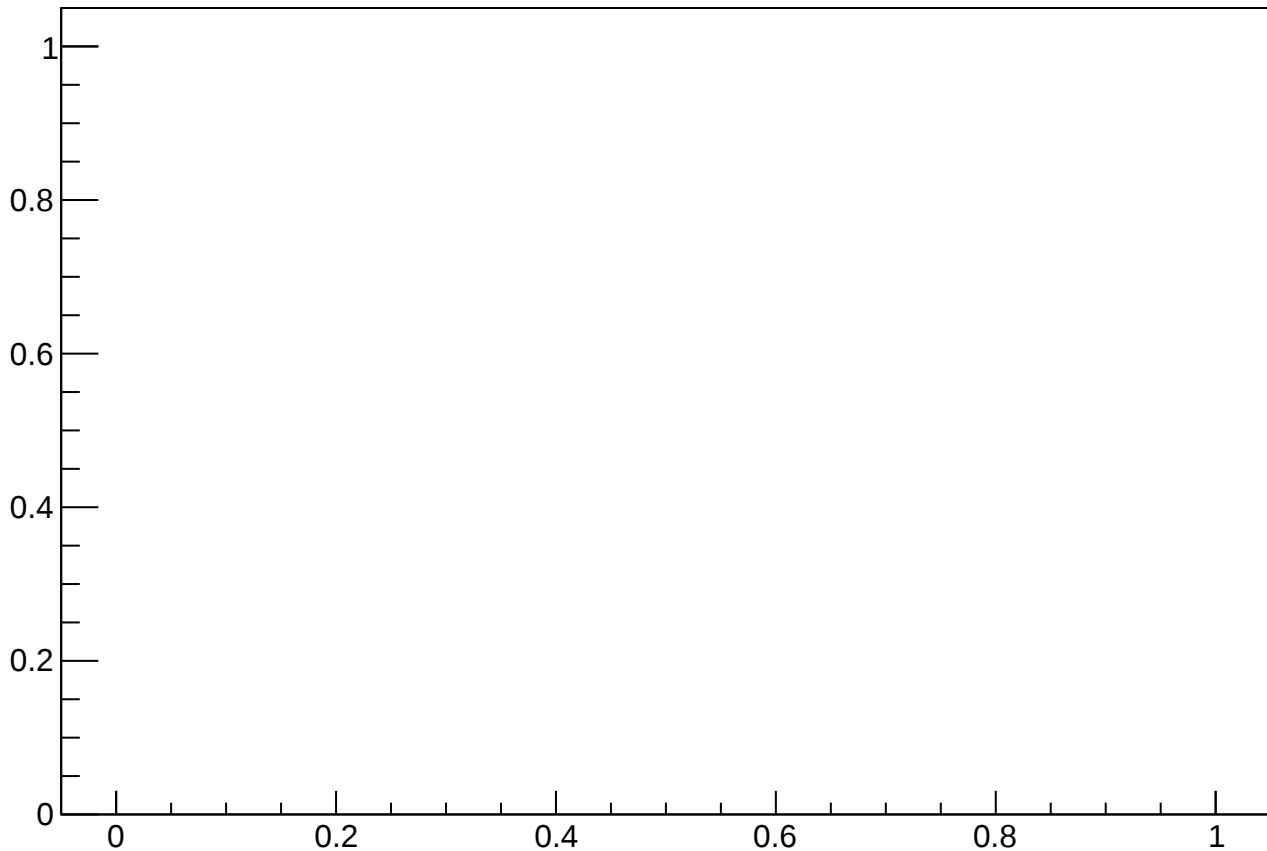
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

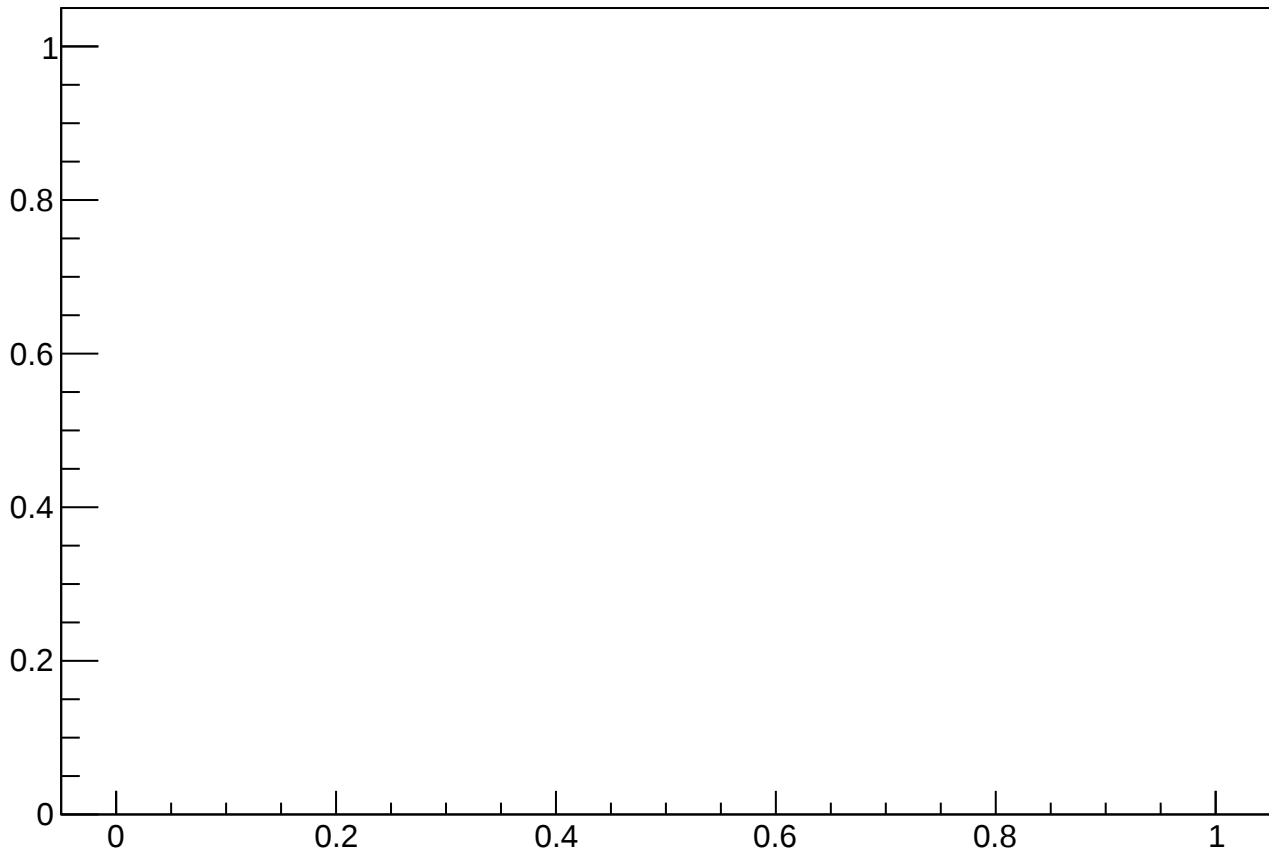
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_usl\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

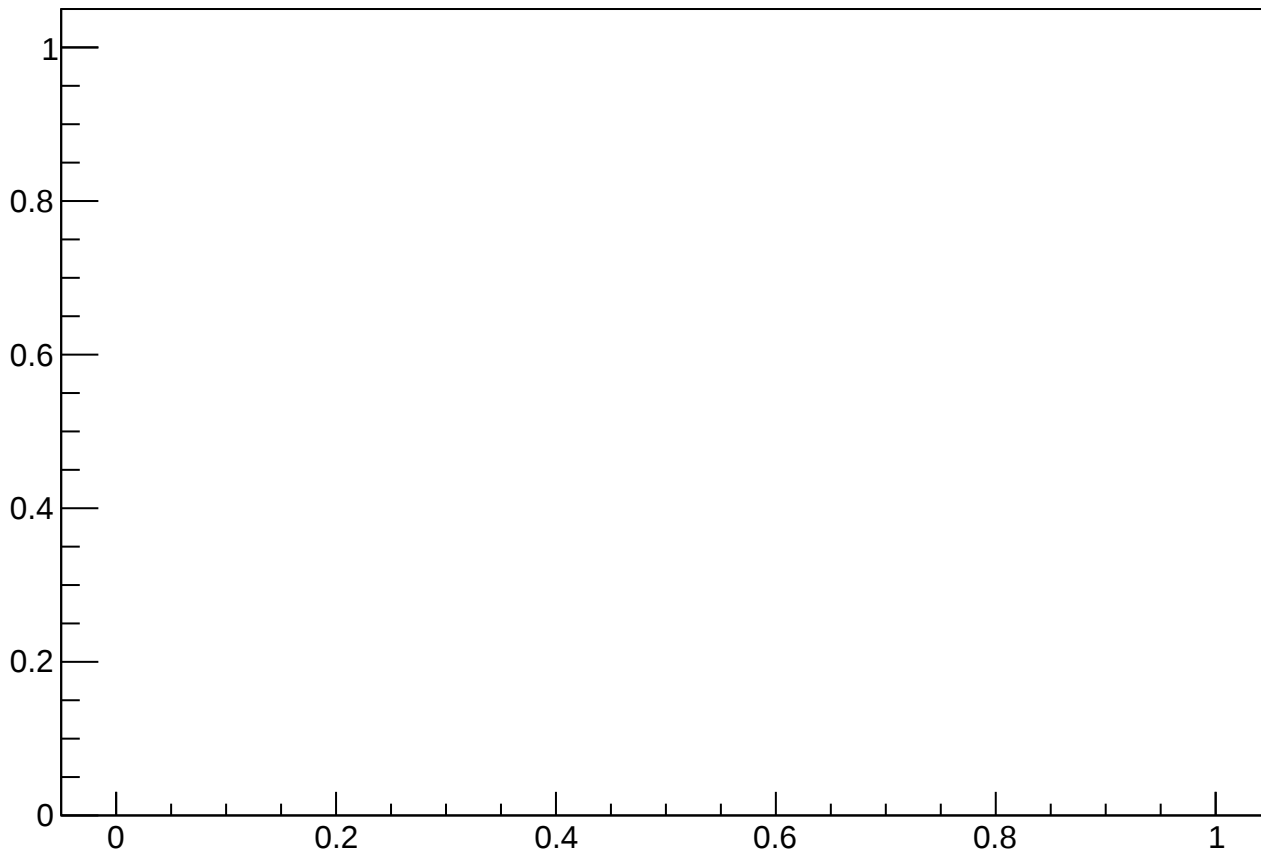
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_usr\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

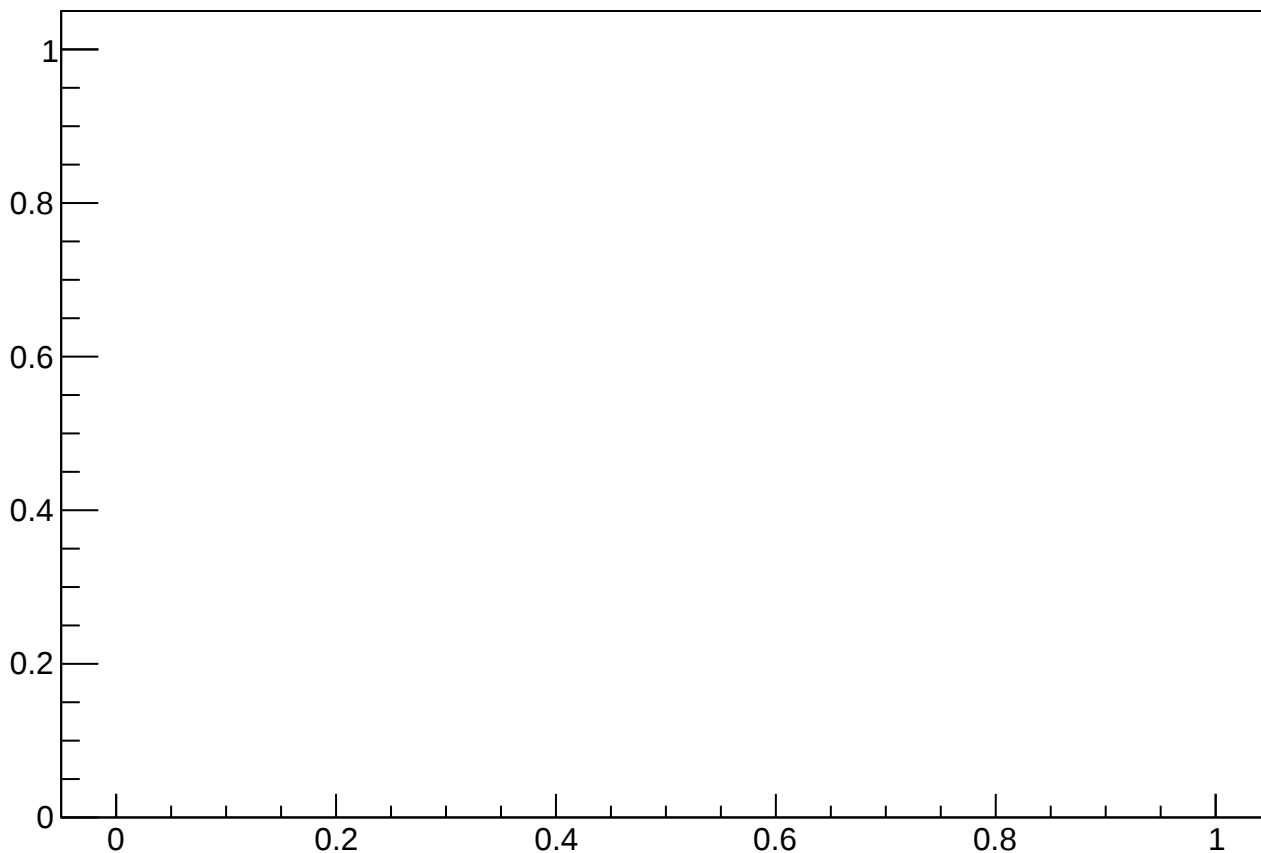
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

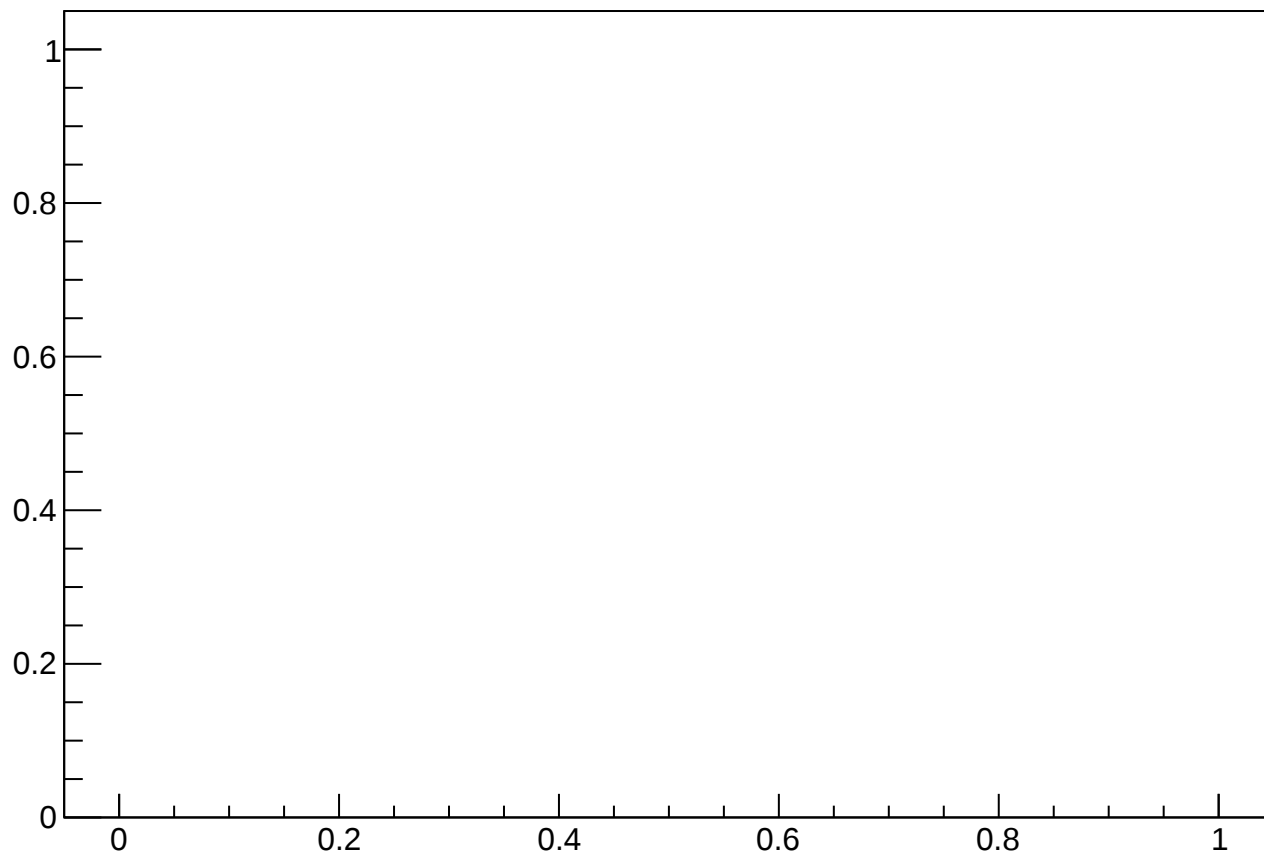
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_usr\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

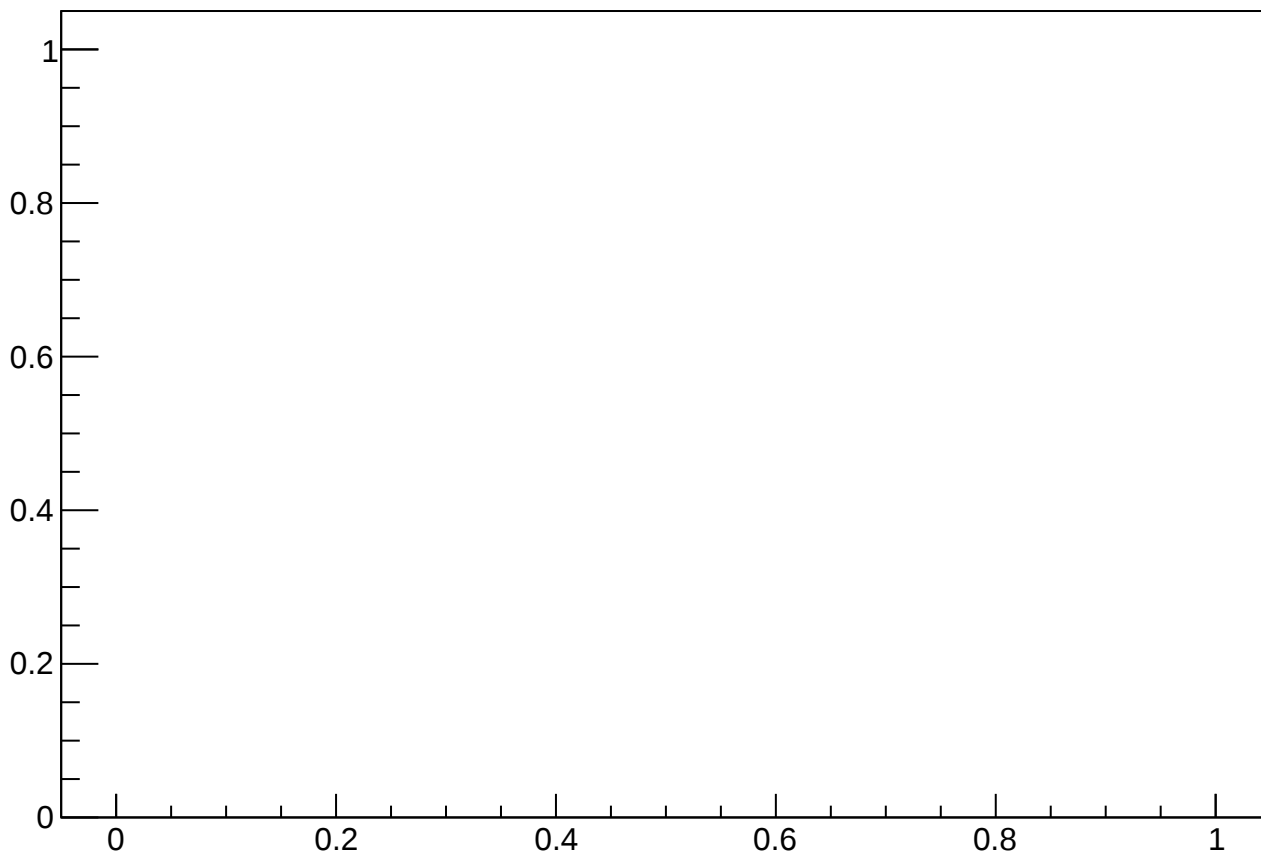
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atl1\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

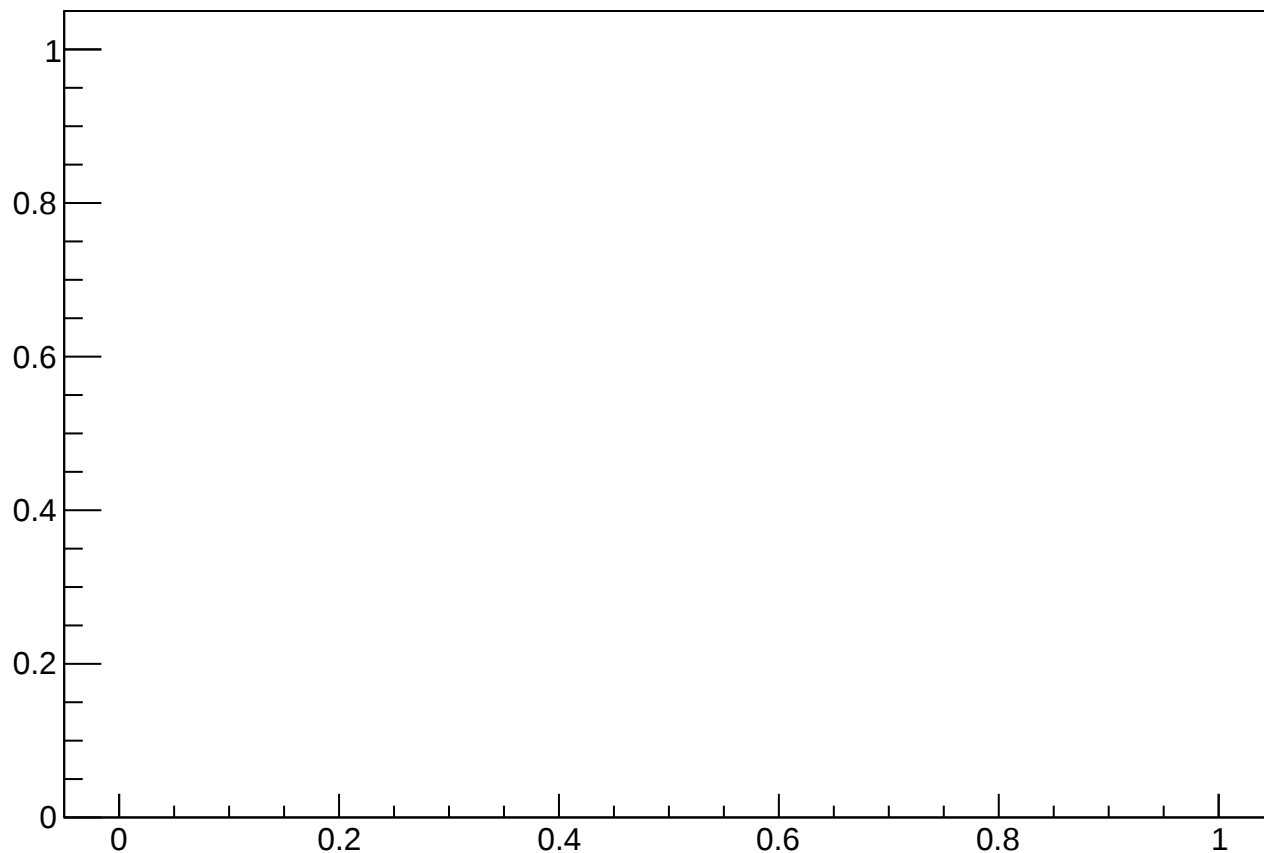
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

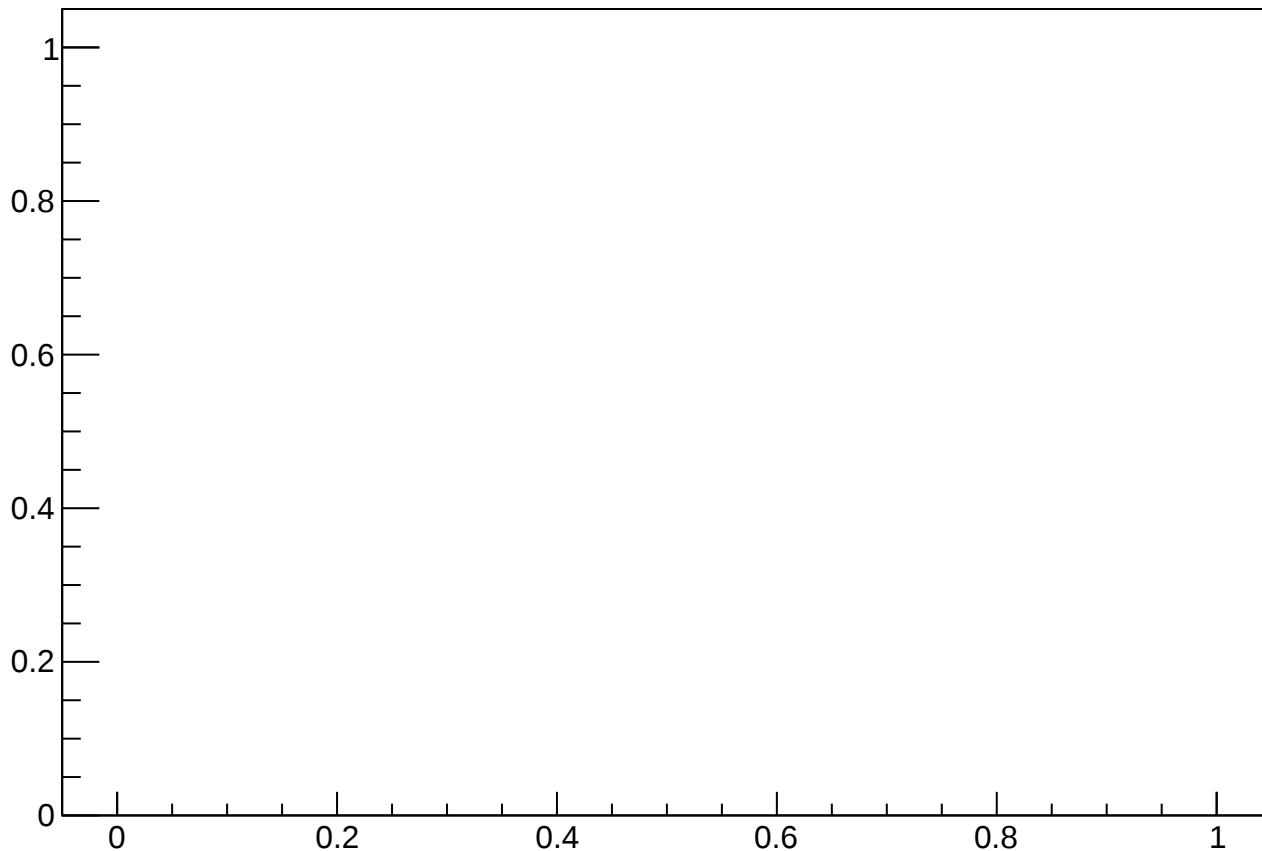
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Right Out: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

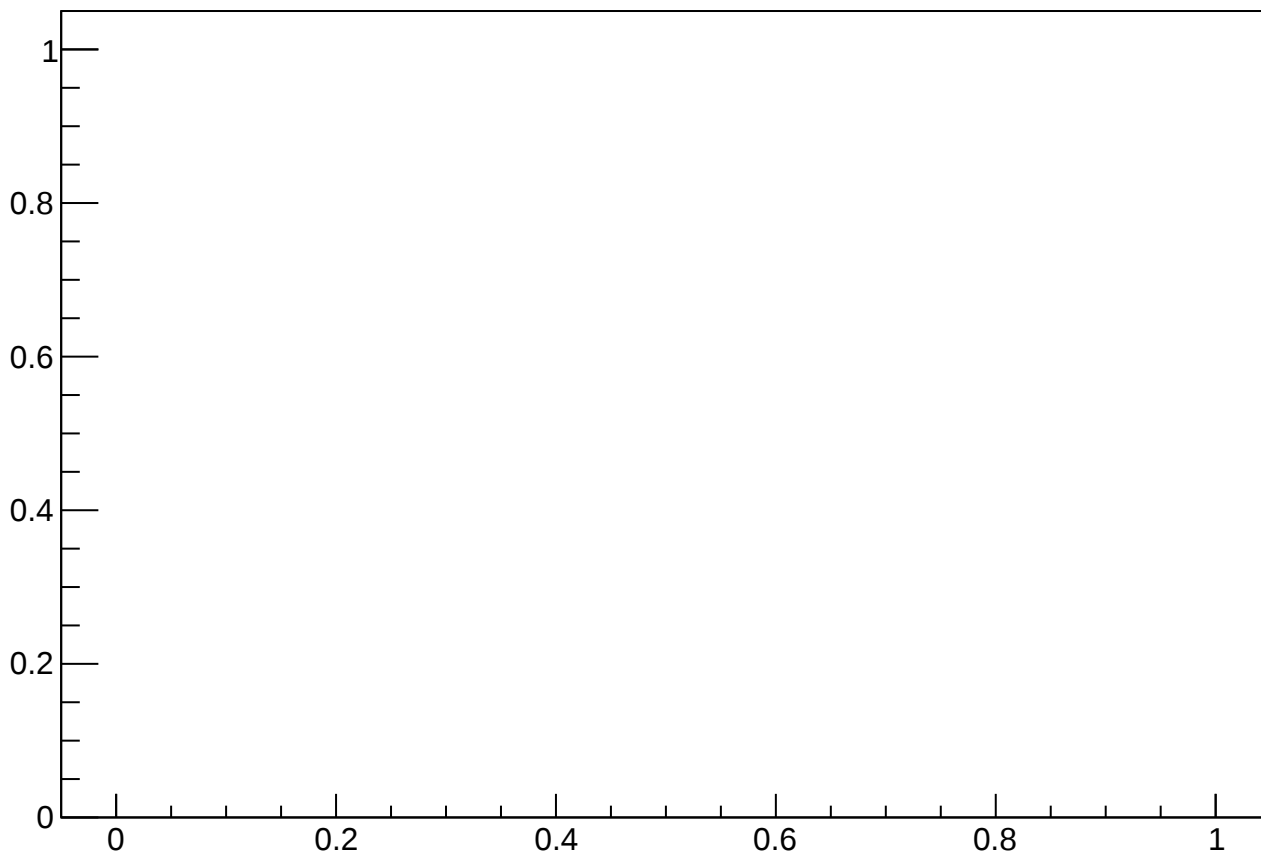
Right: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

In: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

Out: 0.000+/-0.000     $\chi^2$ /NDF:0.0/0

All: 0.000+/-0.000     $\chi^2$ /NDF: 0.0/0

# dit\_atl2\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

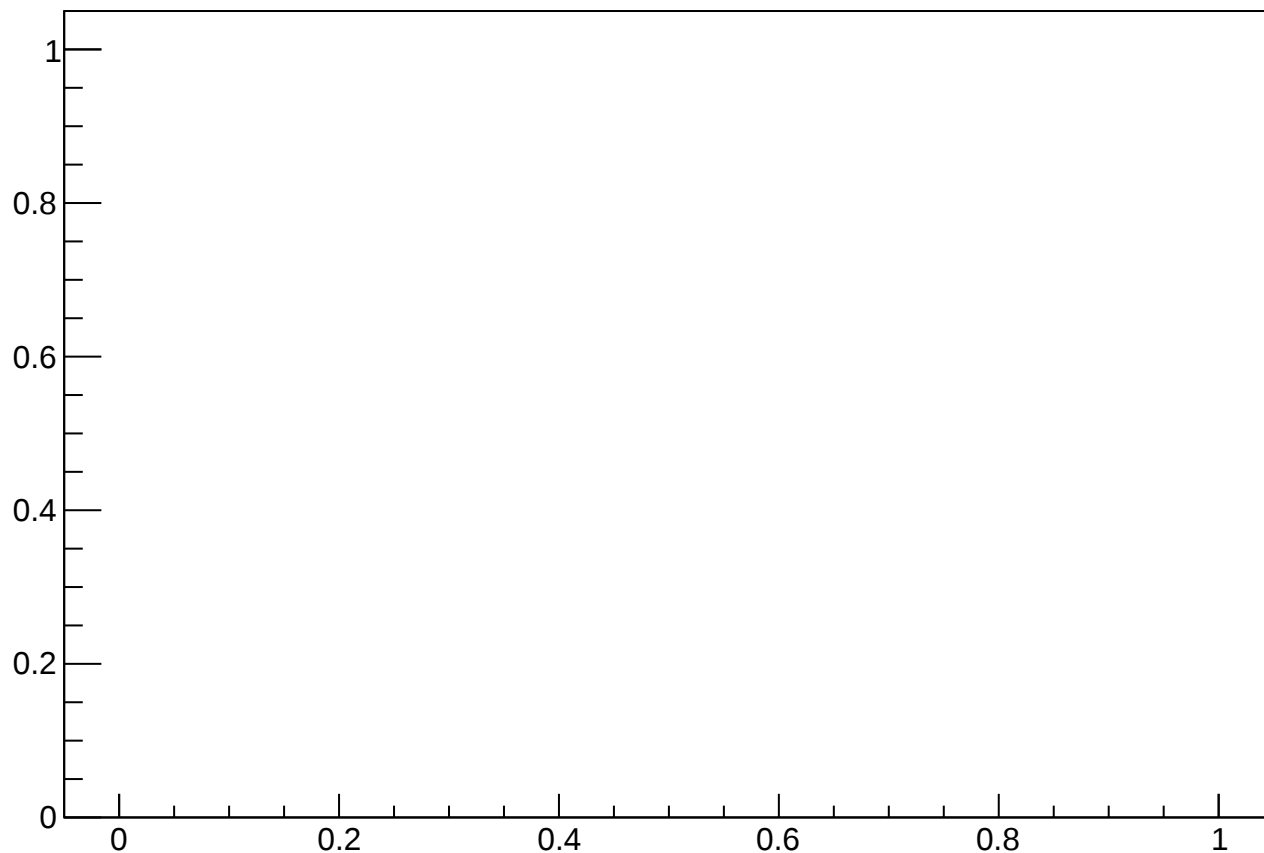
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

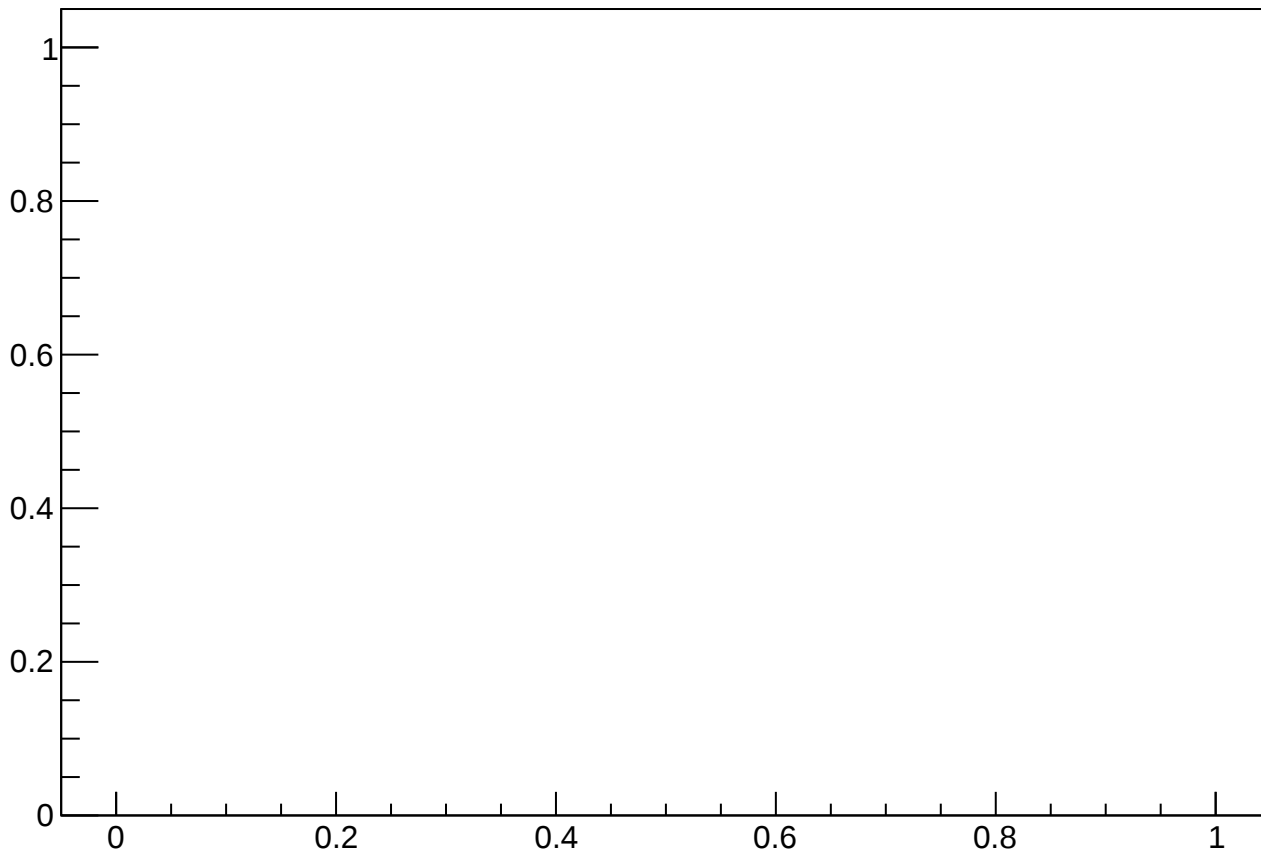
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atl2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

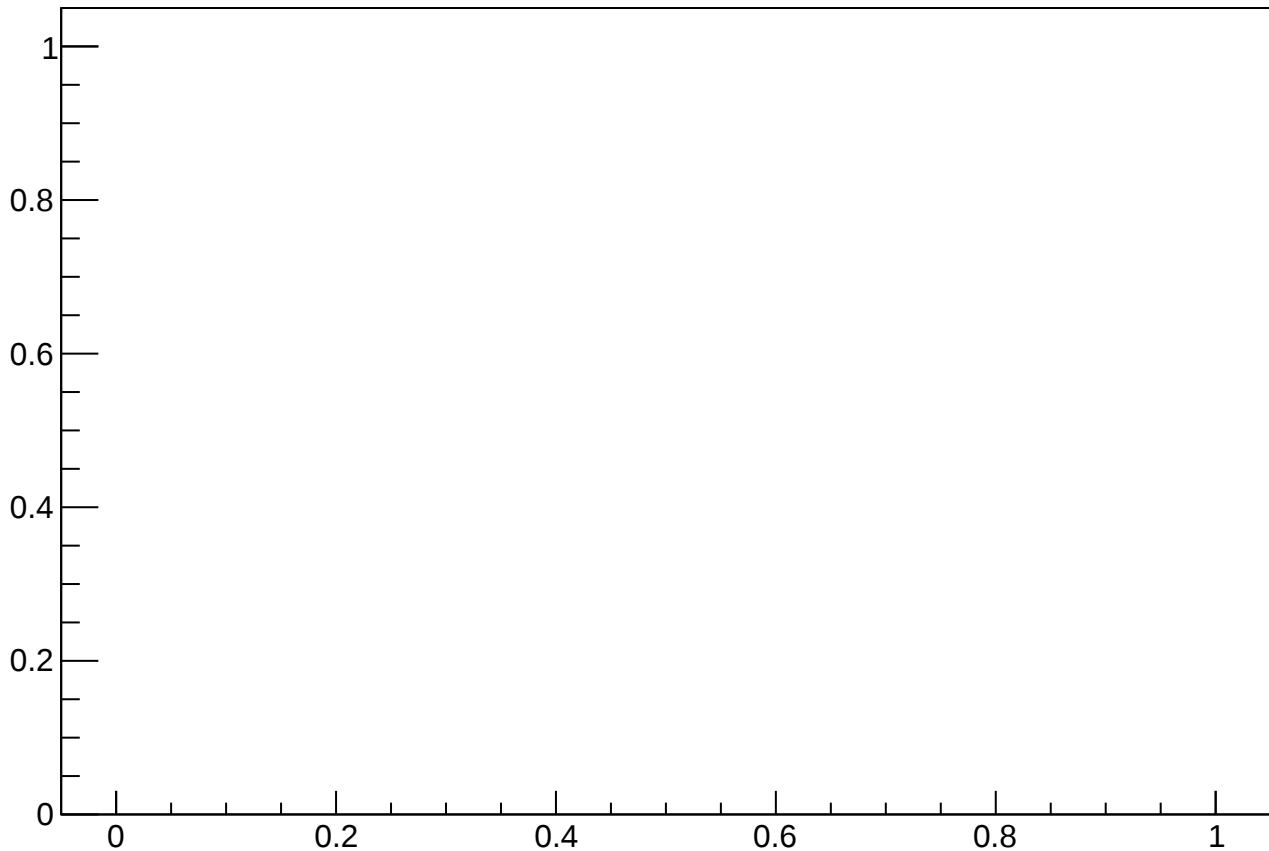
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

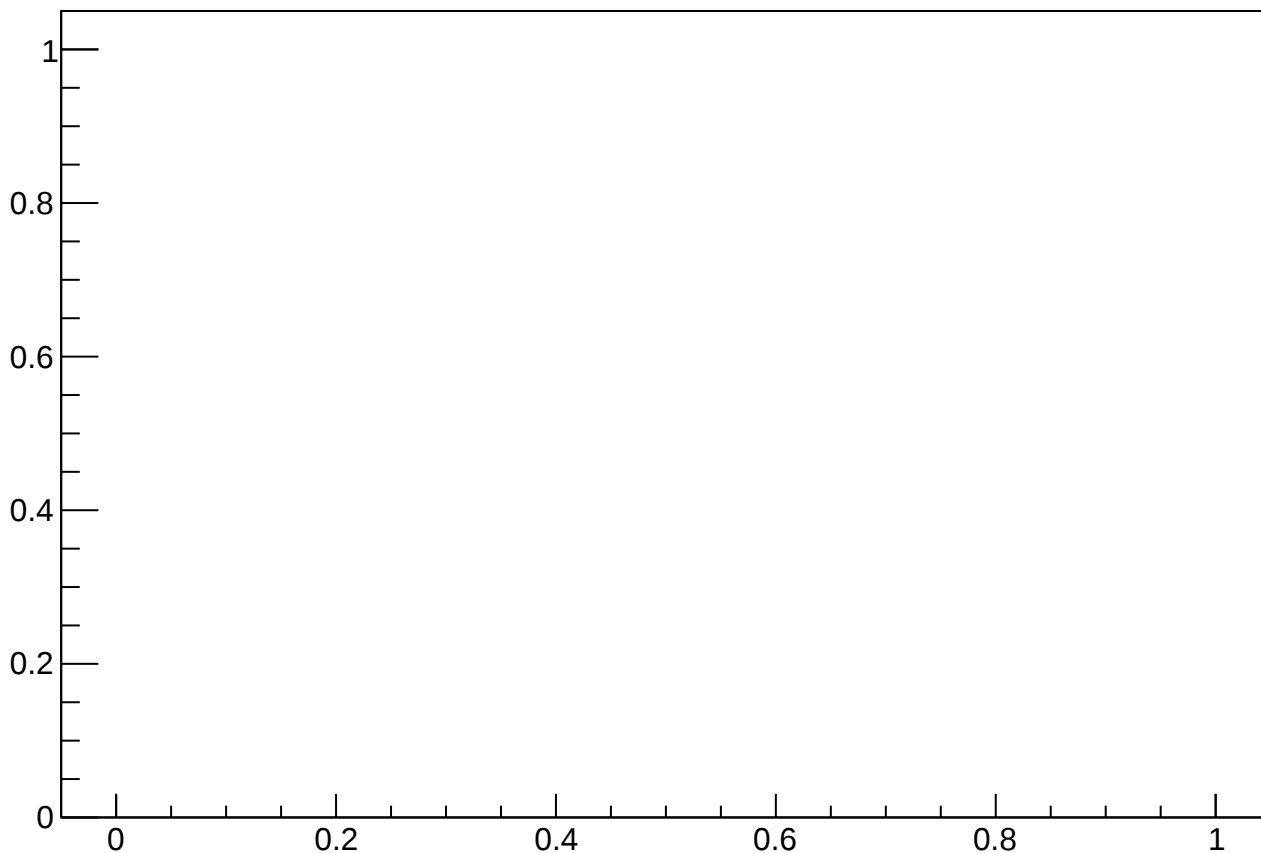
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

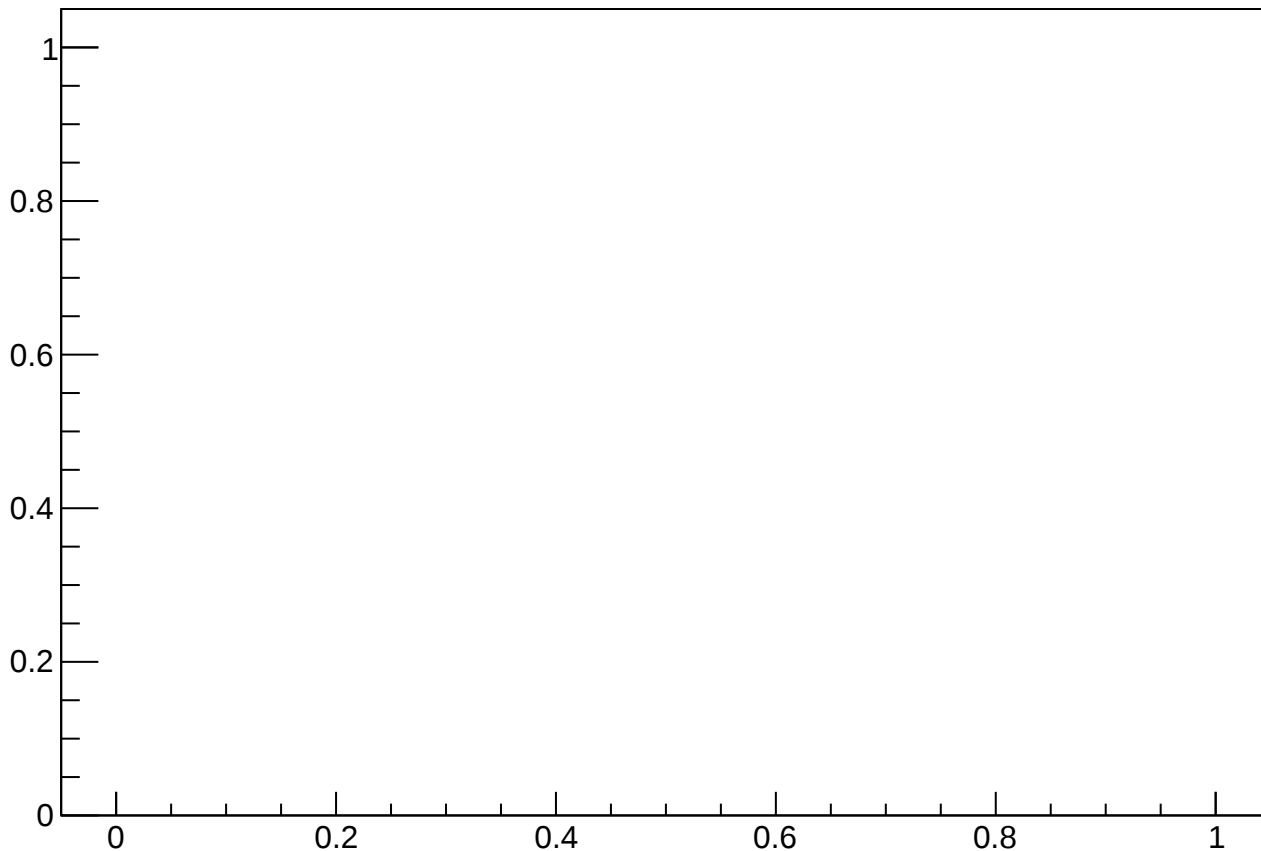
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

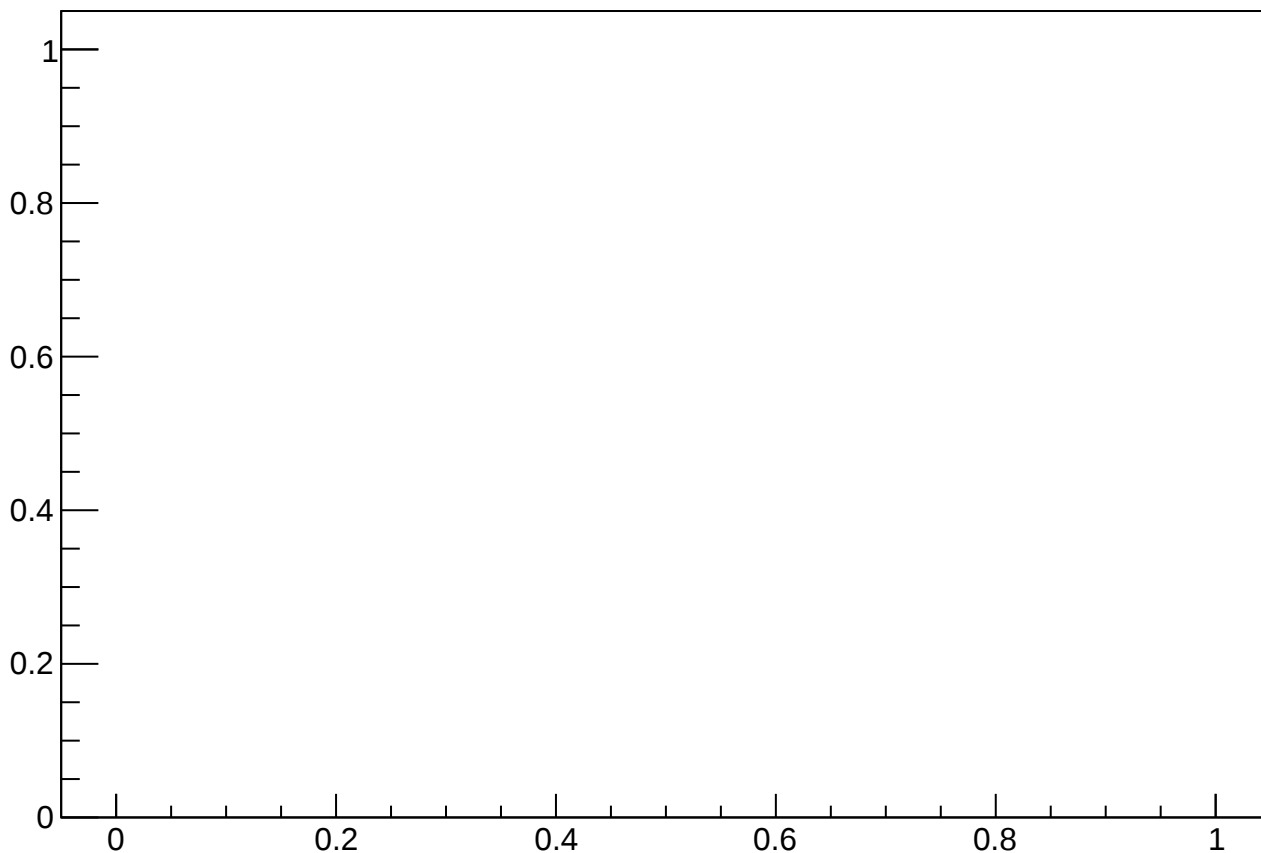
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_atr2\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

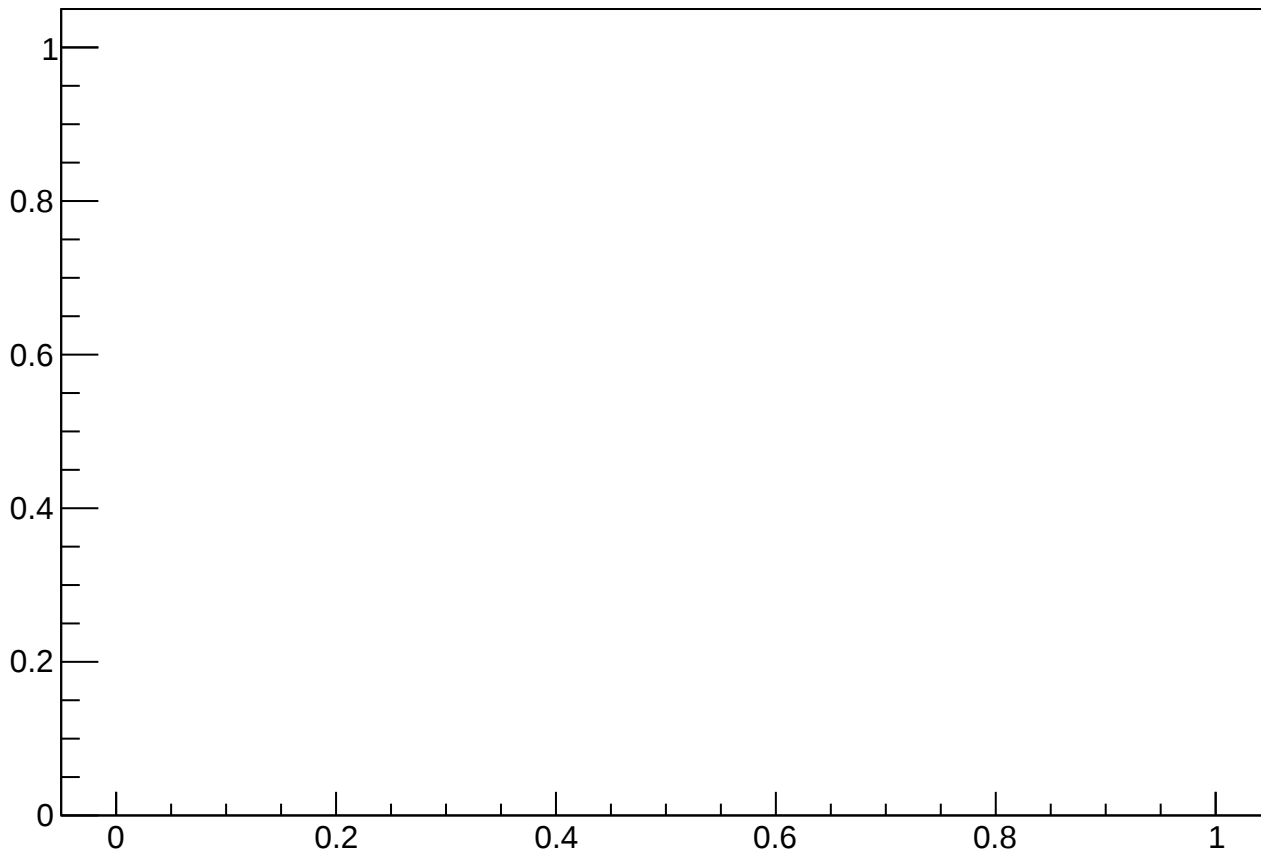
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_atr2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

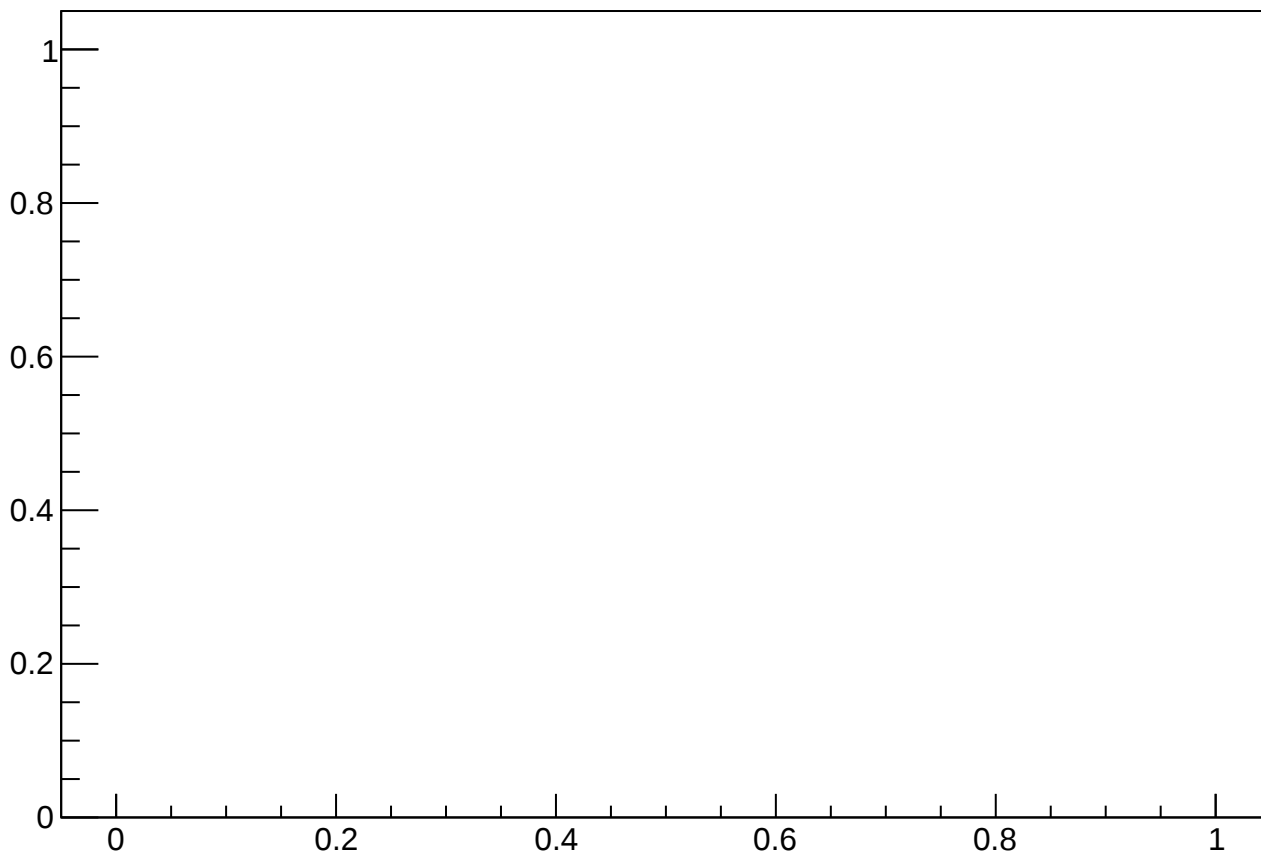
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam1\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

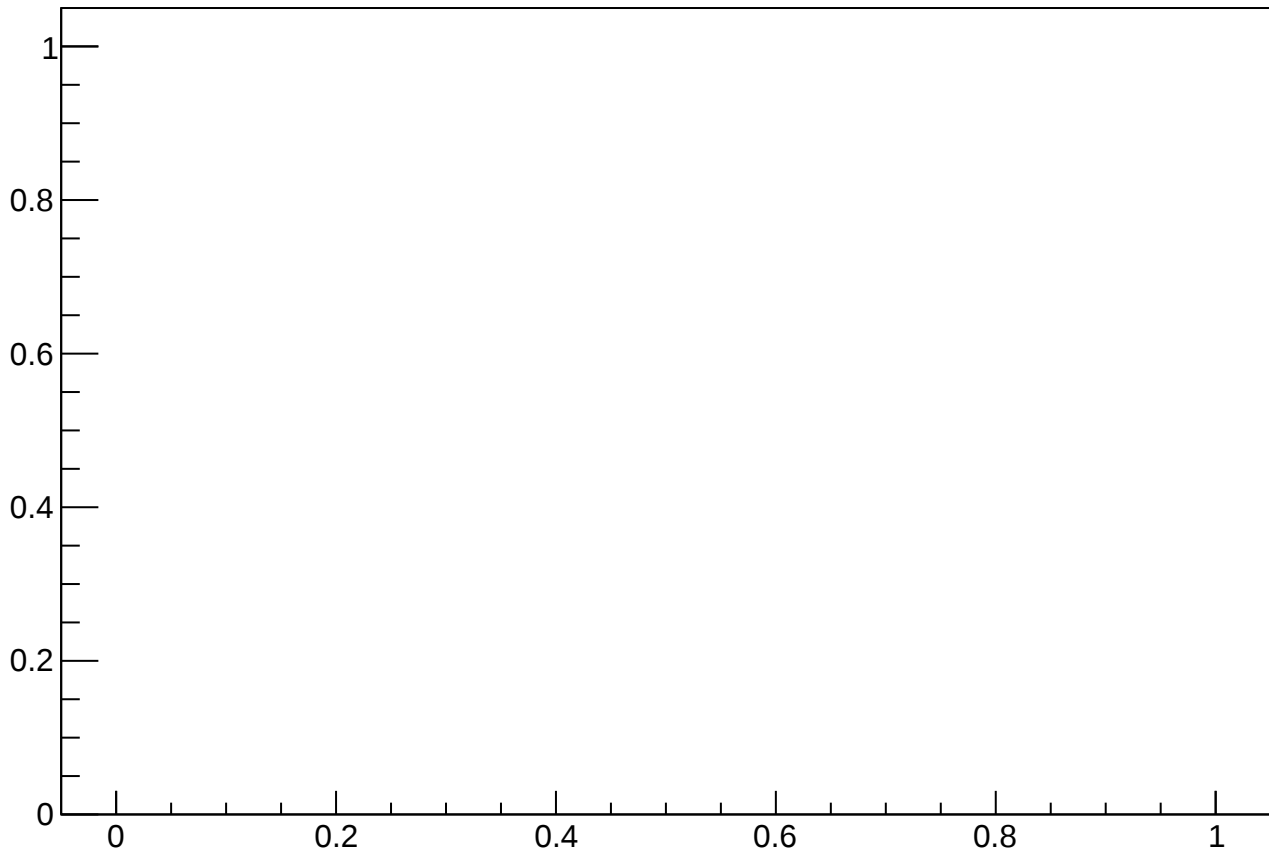
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

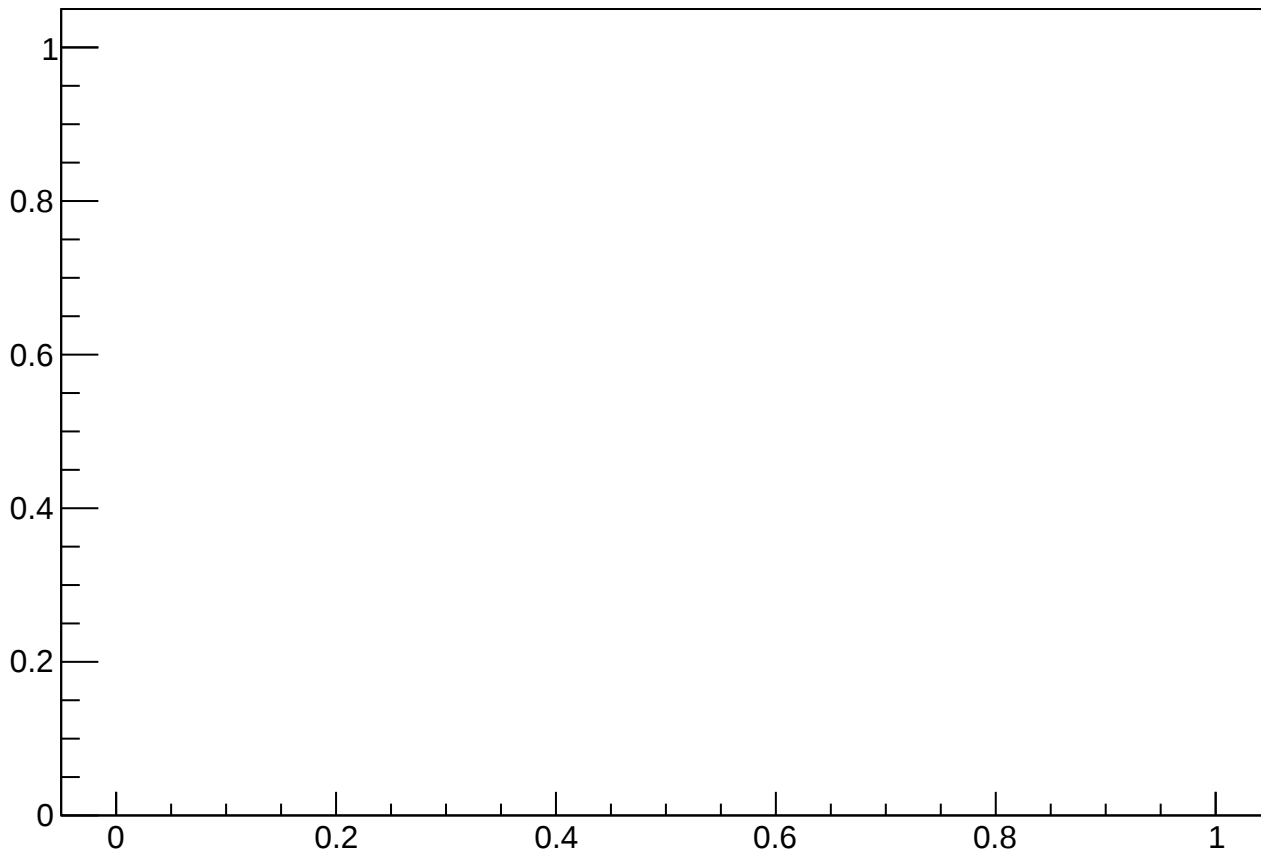
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam1\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

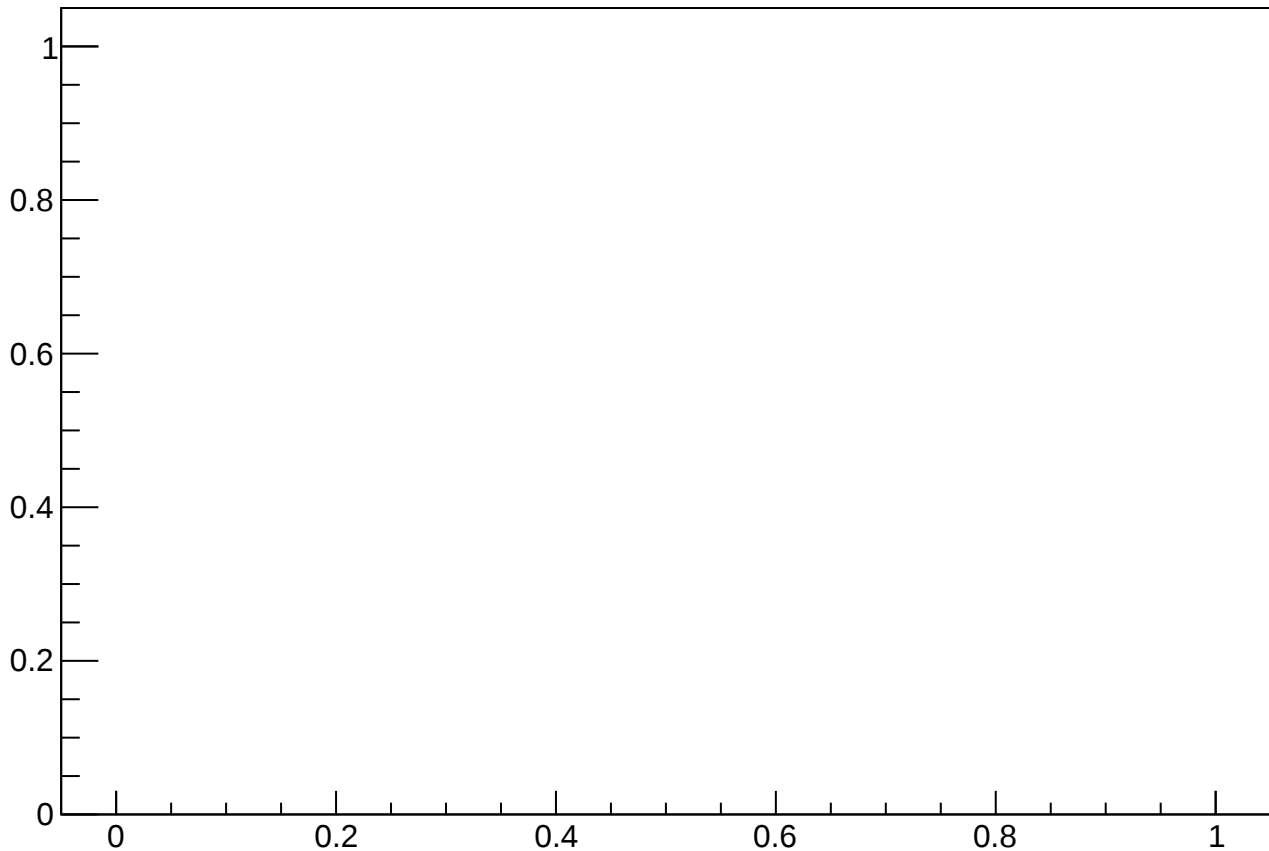
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam2\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

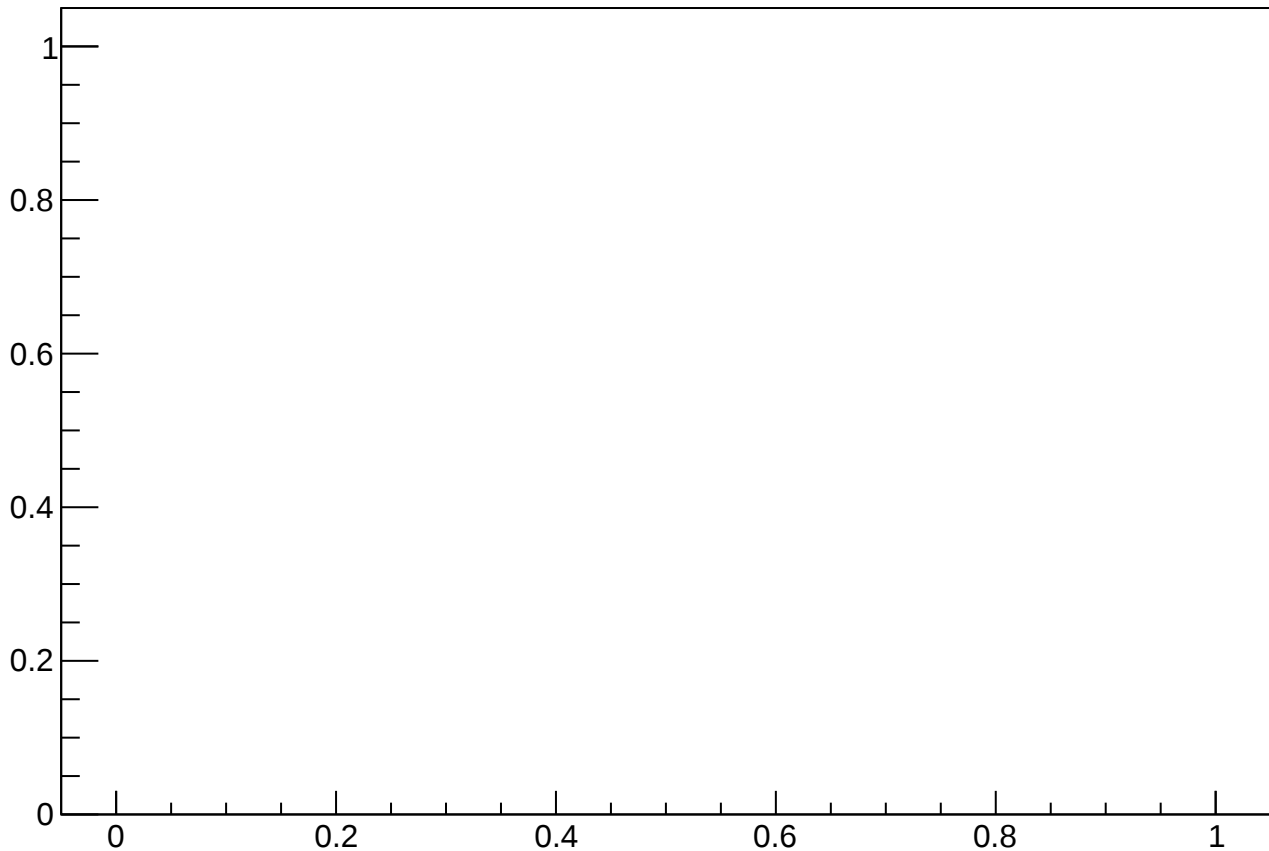
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam2\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

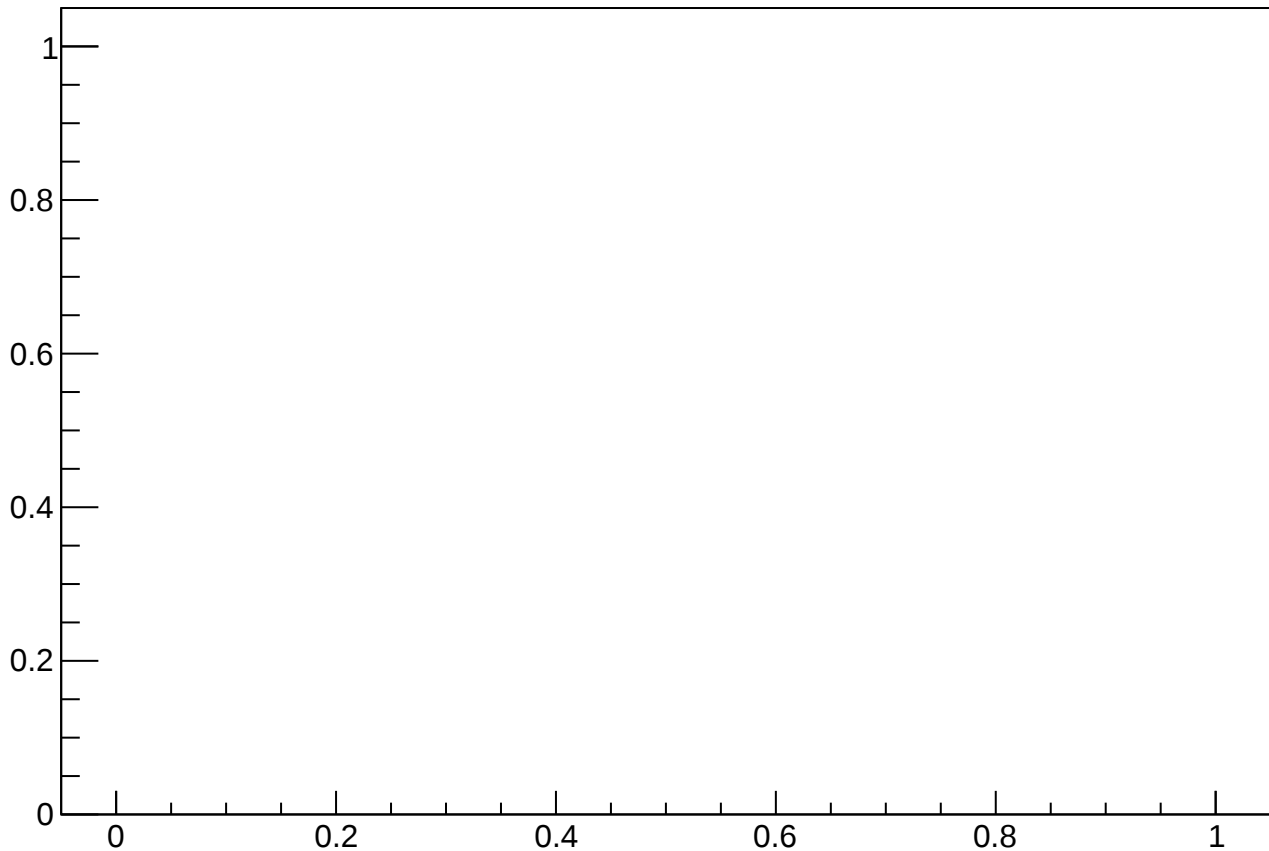
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam2\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

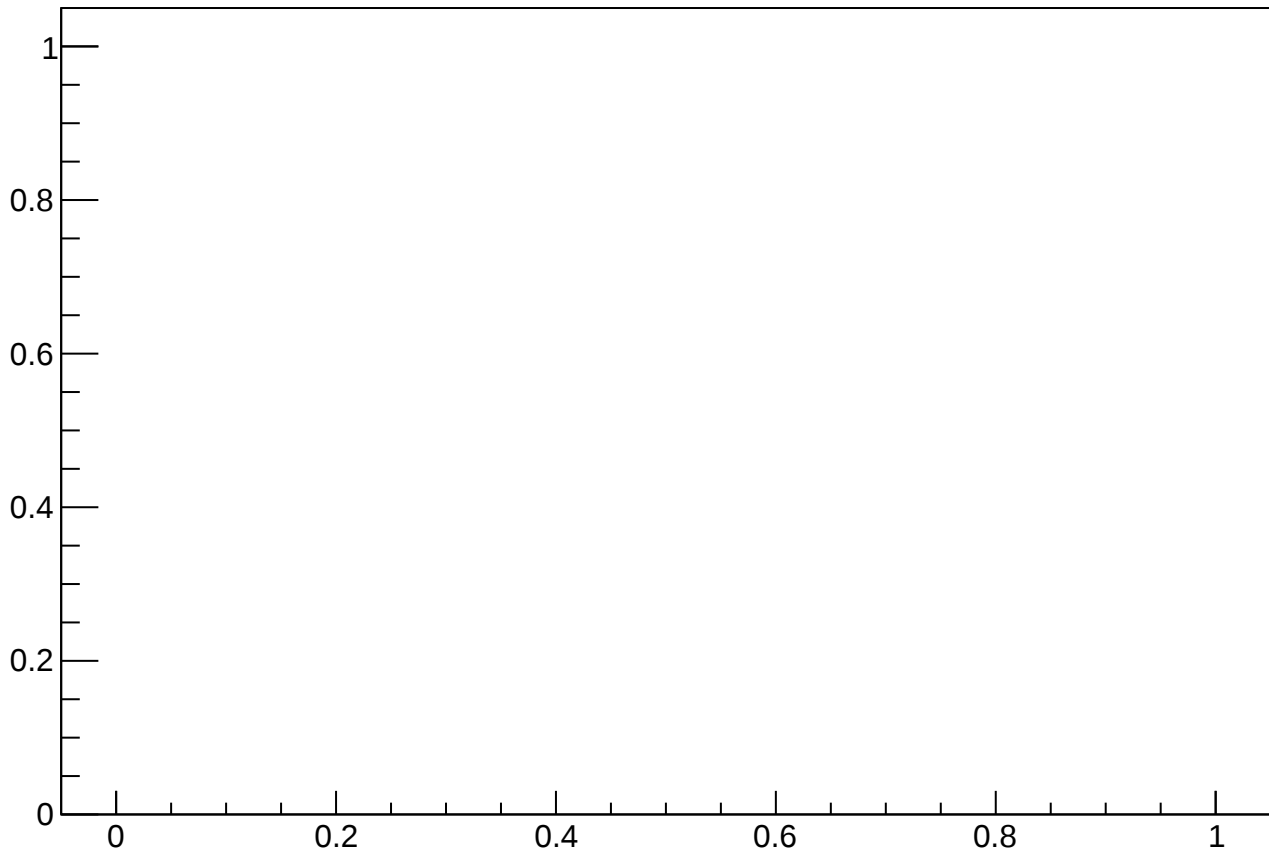
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam3\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

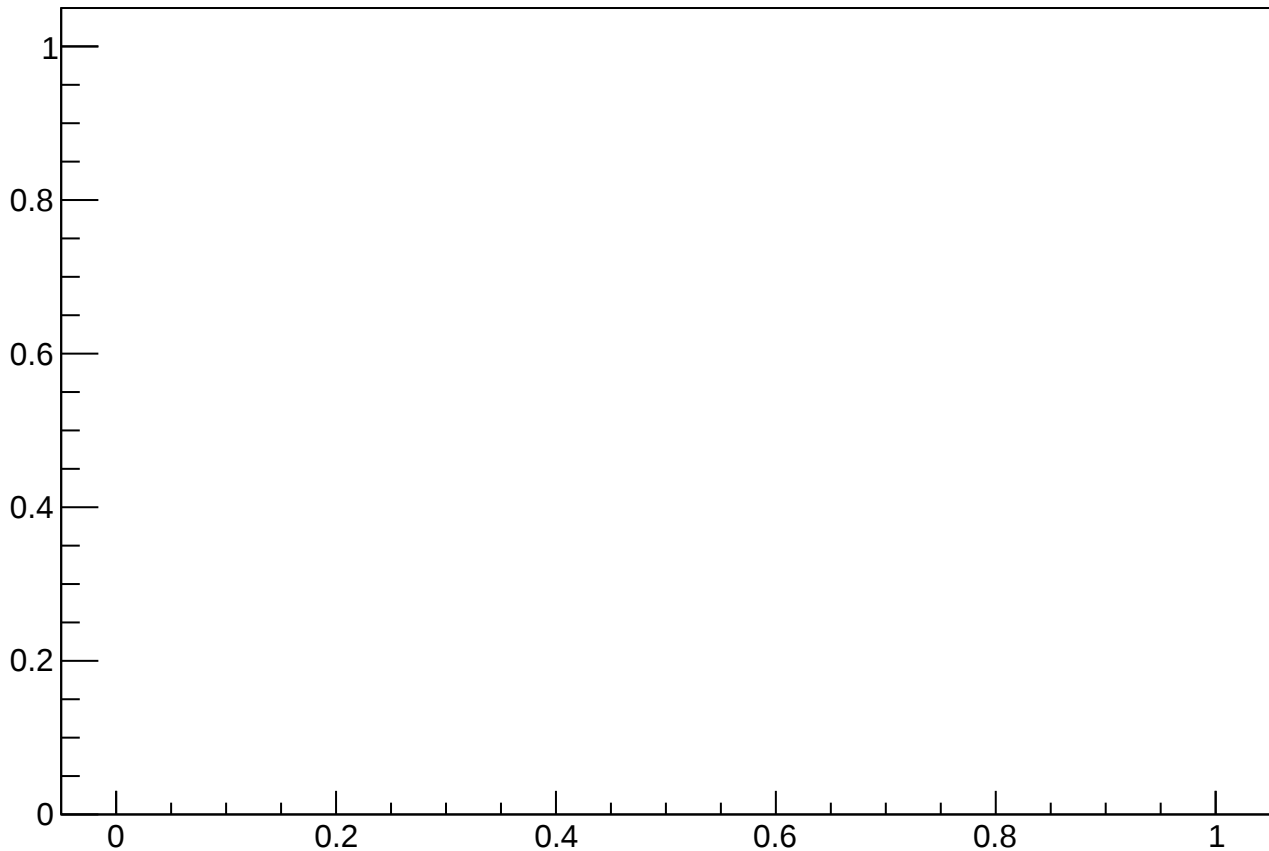
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

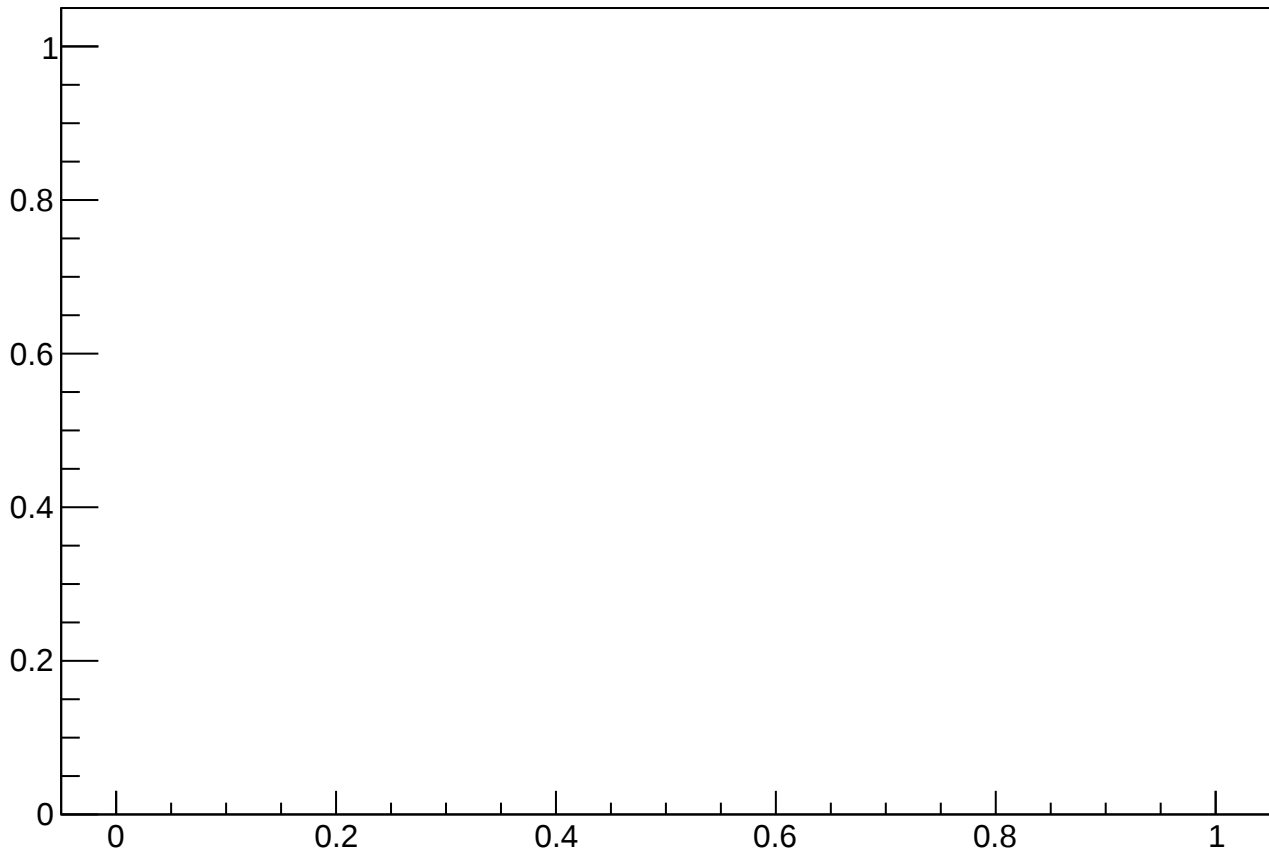
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam3\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

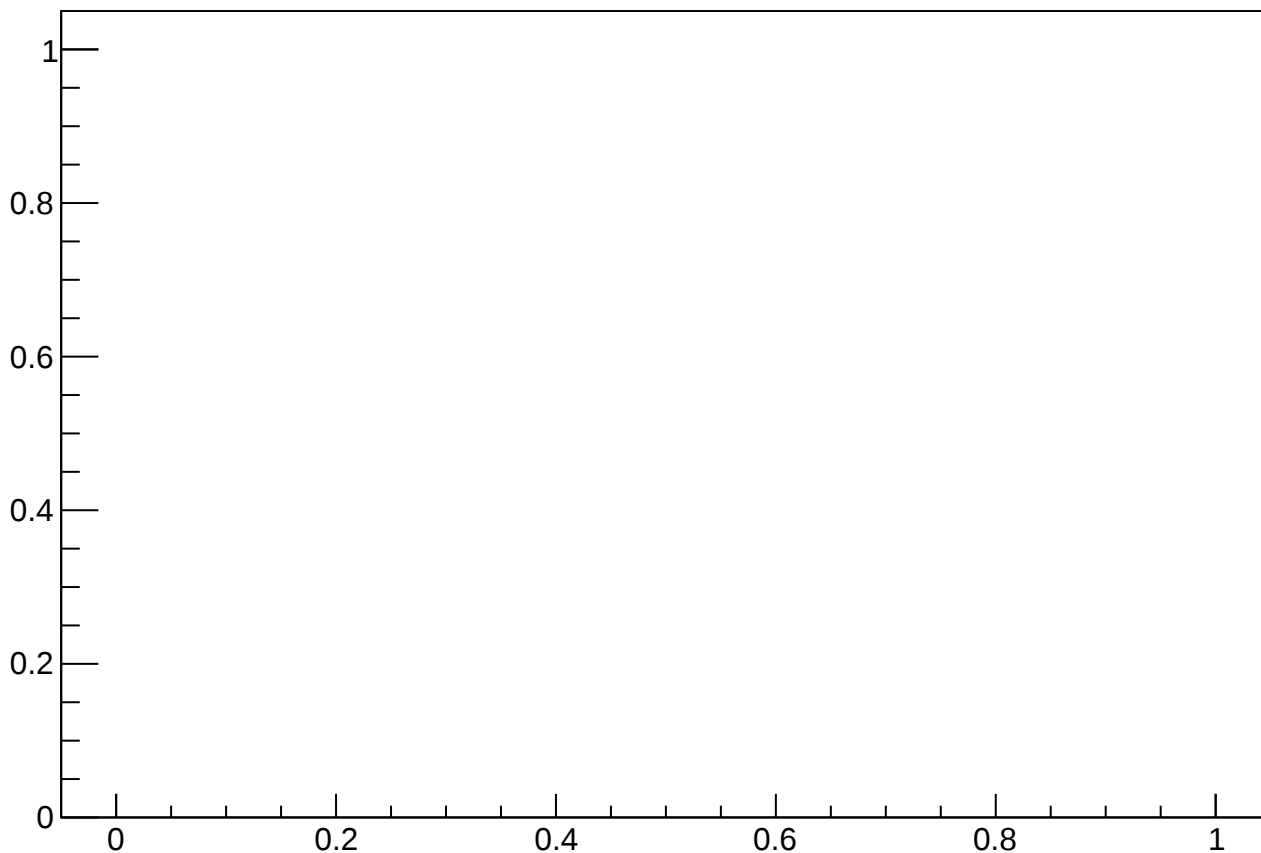
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam4\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

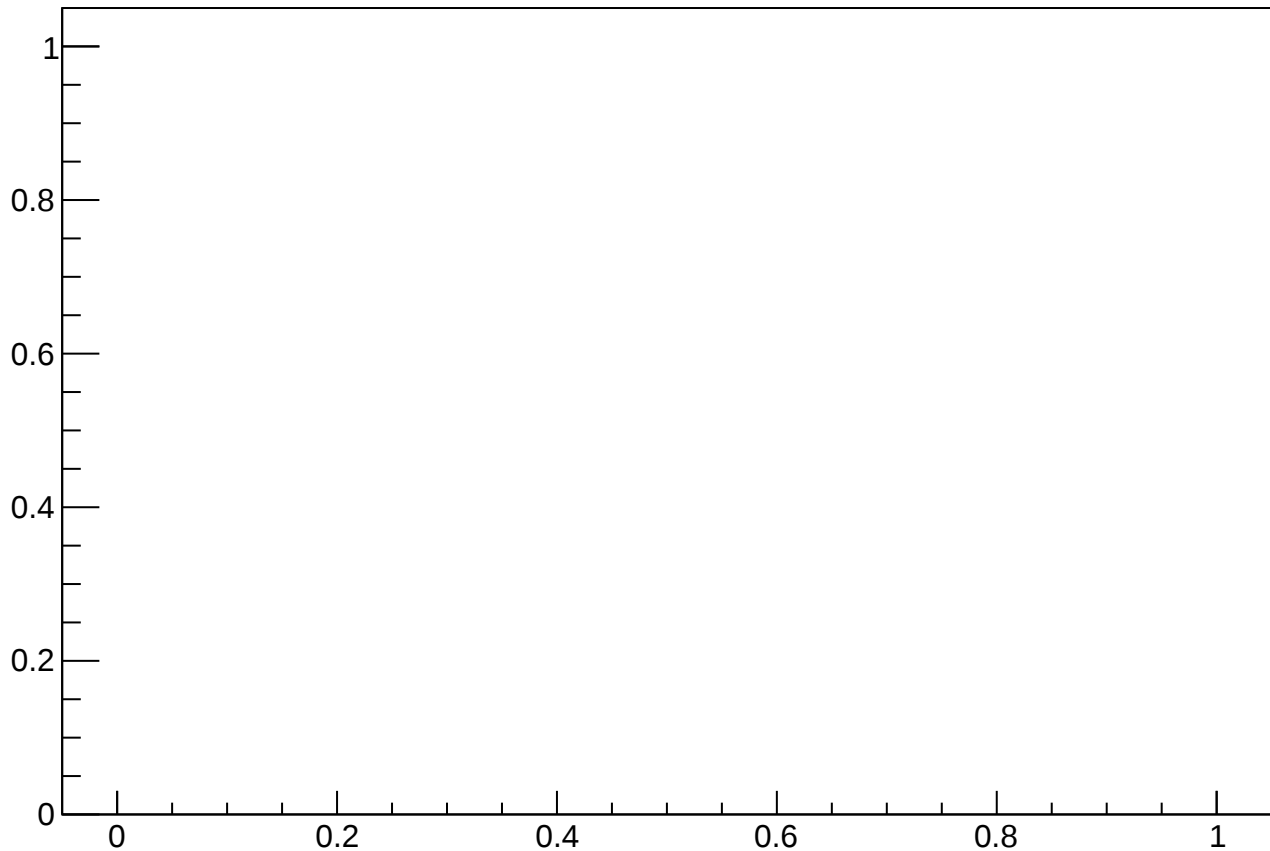
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

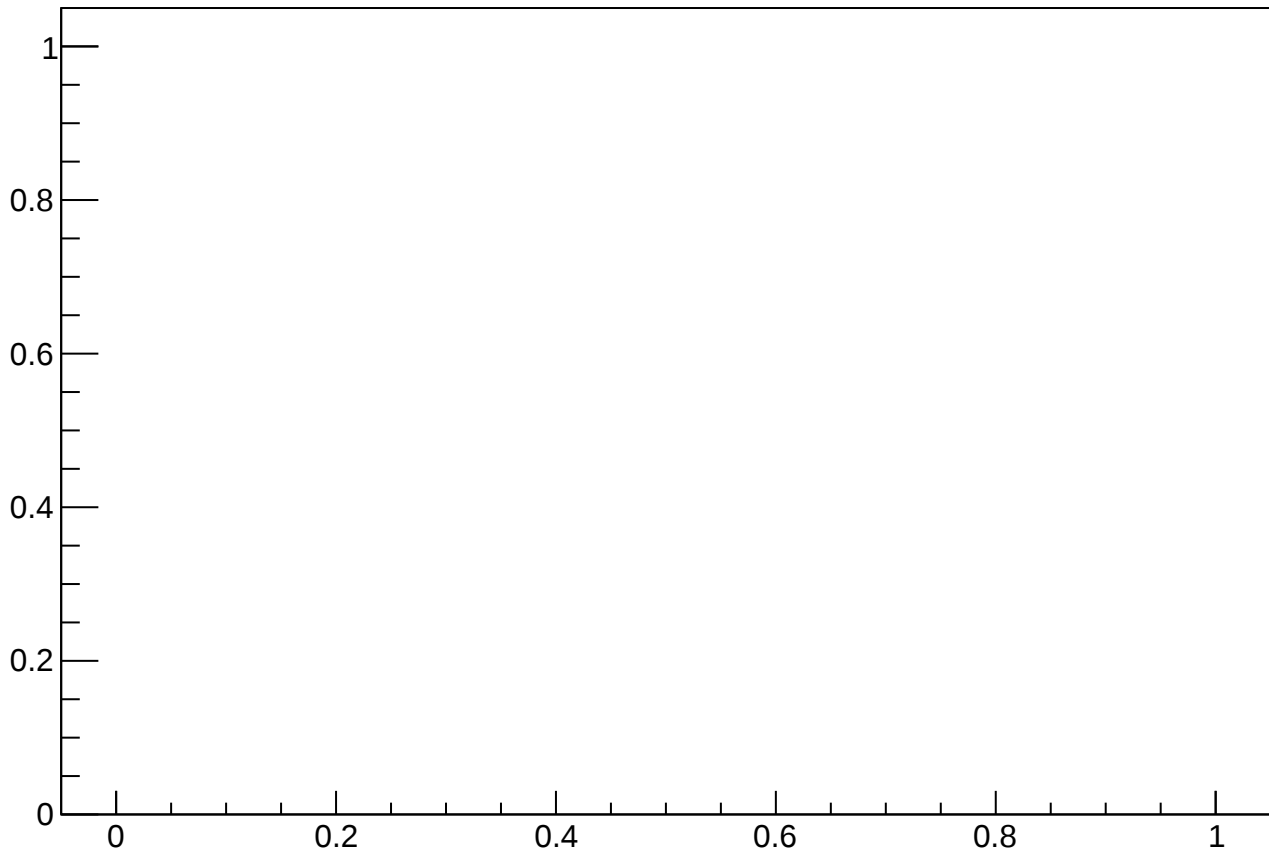
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam4\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

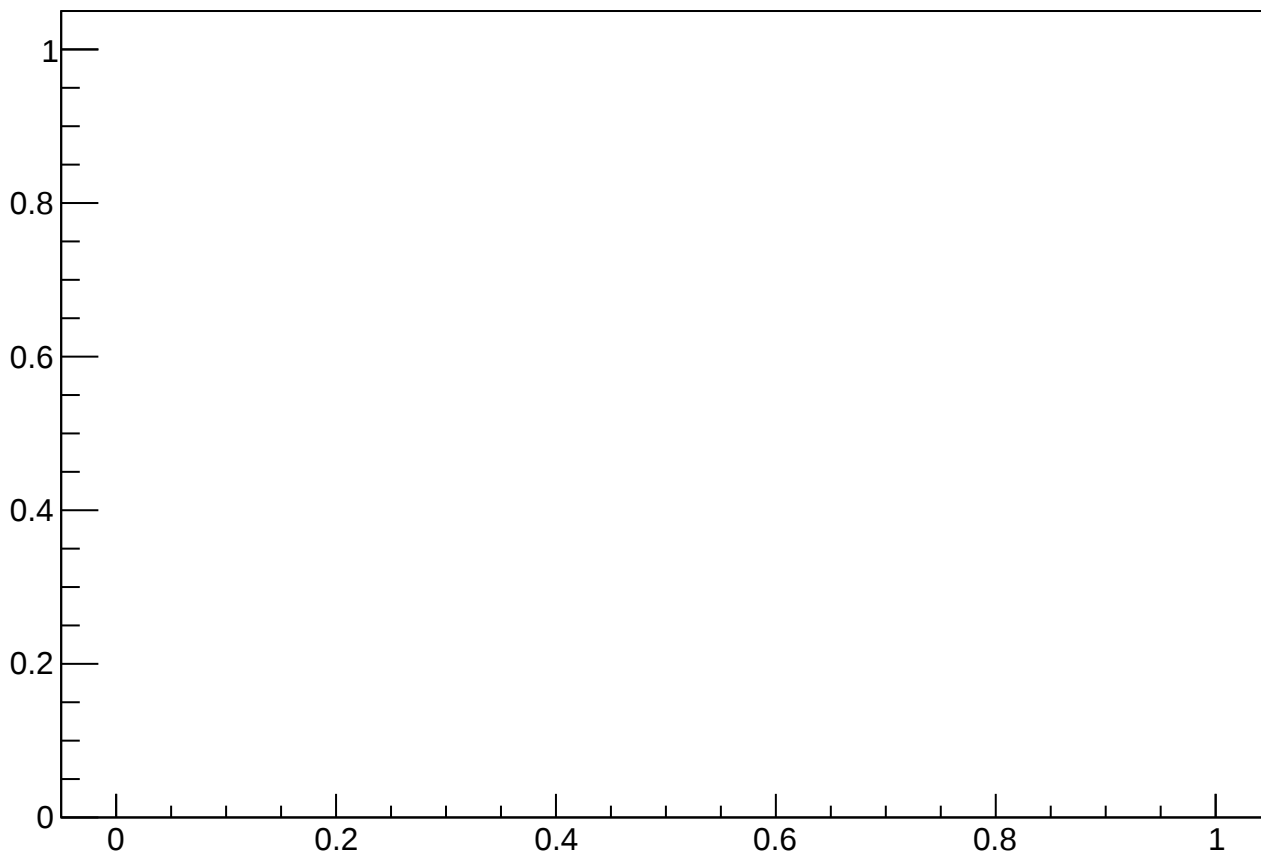
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam5\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

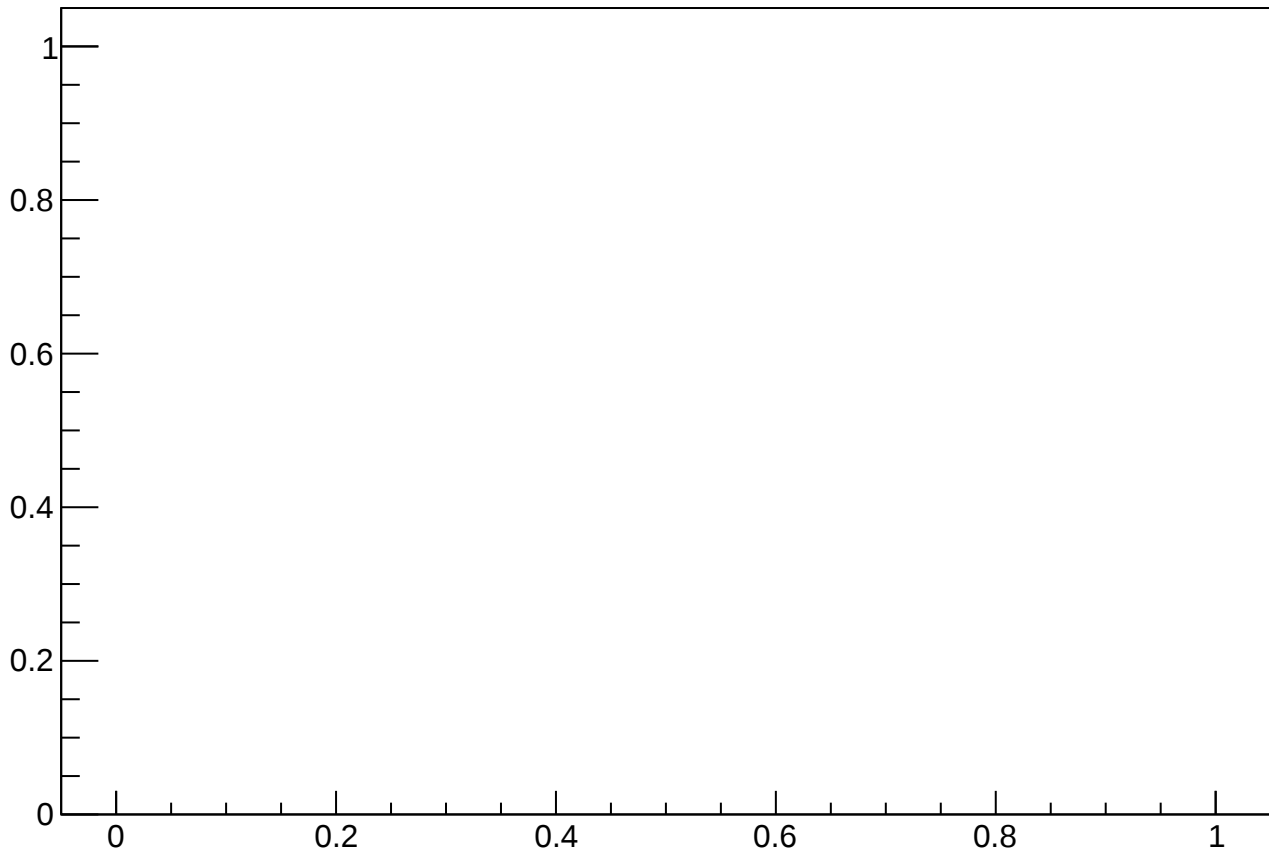
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

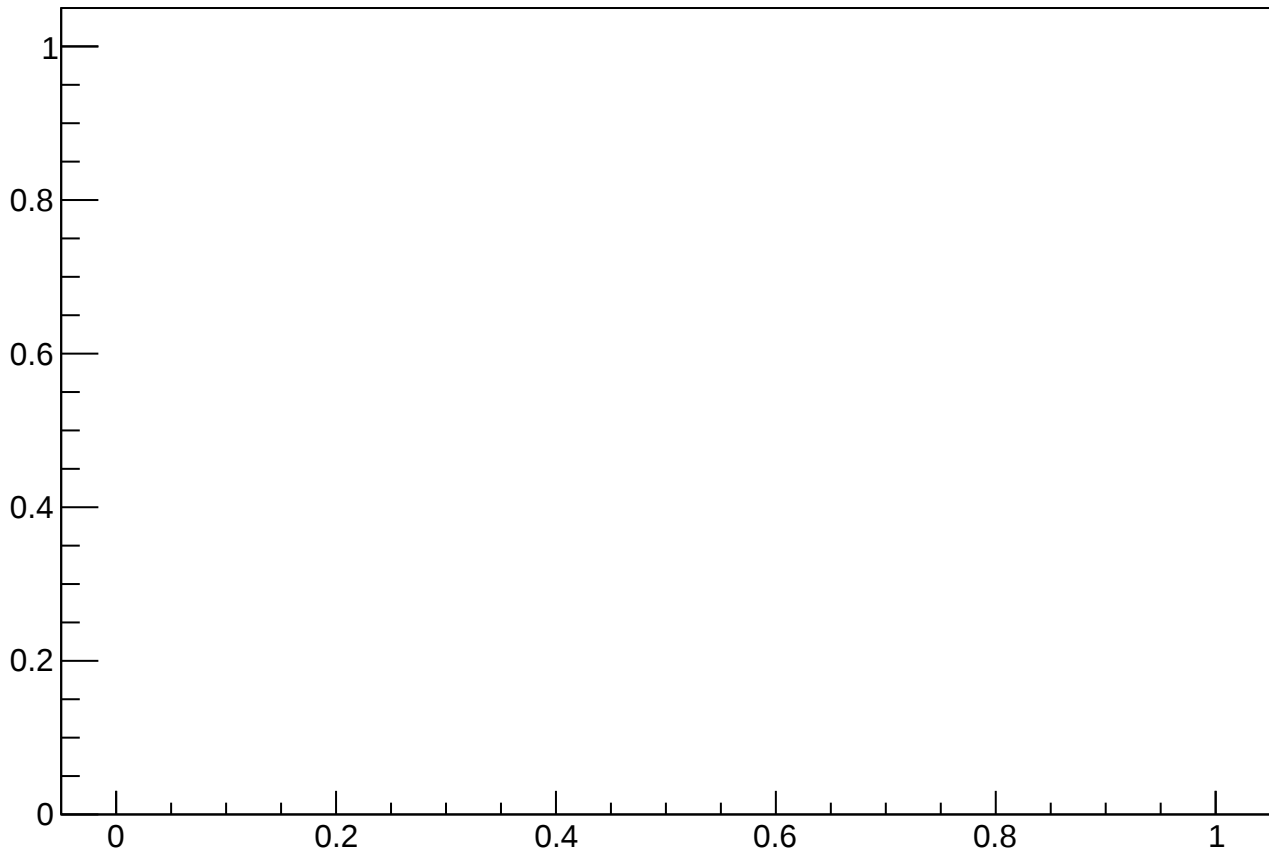
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam5\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

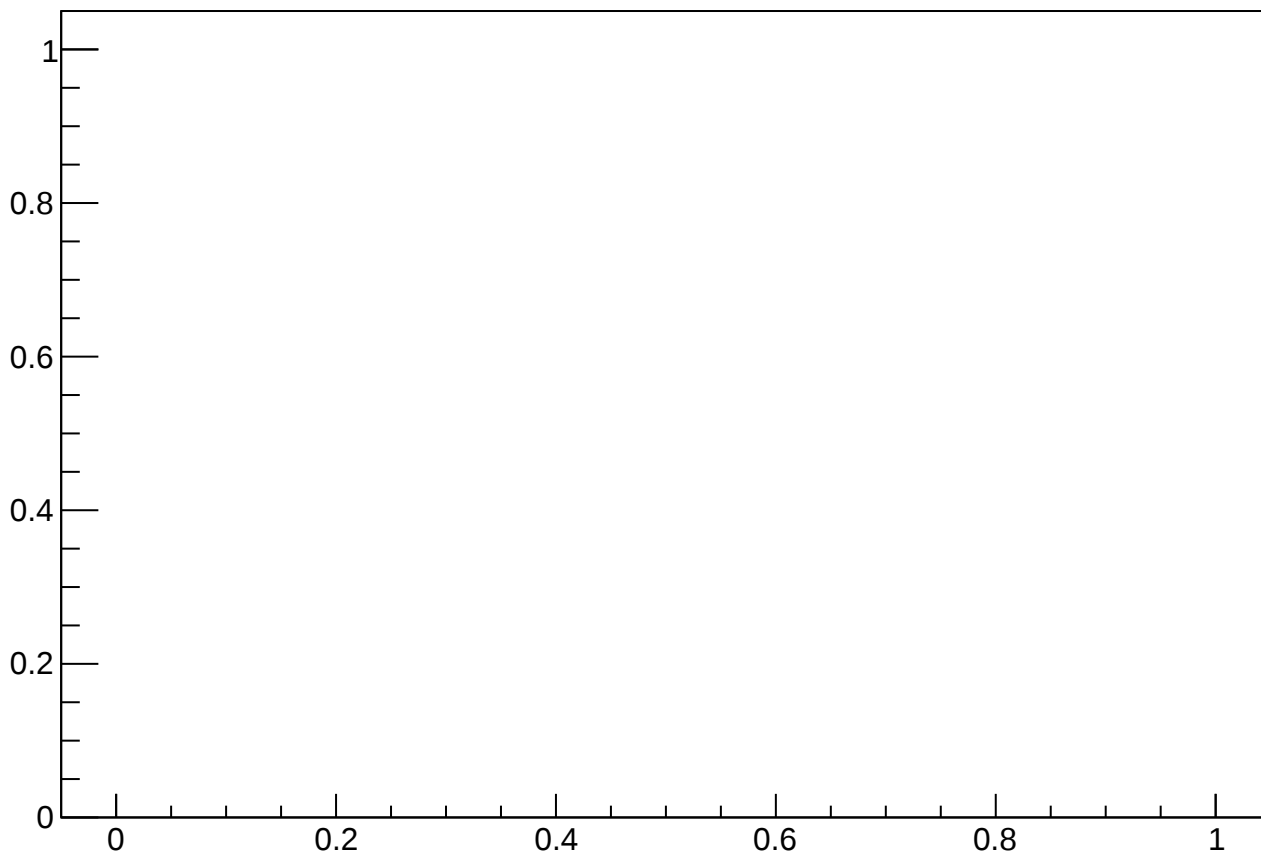
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam6\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

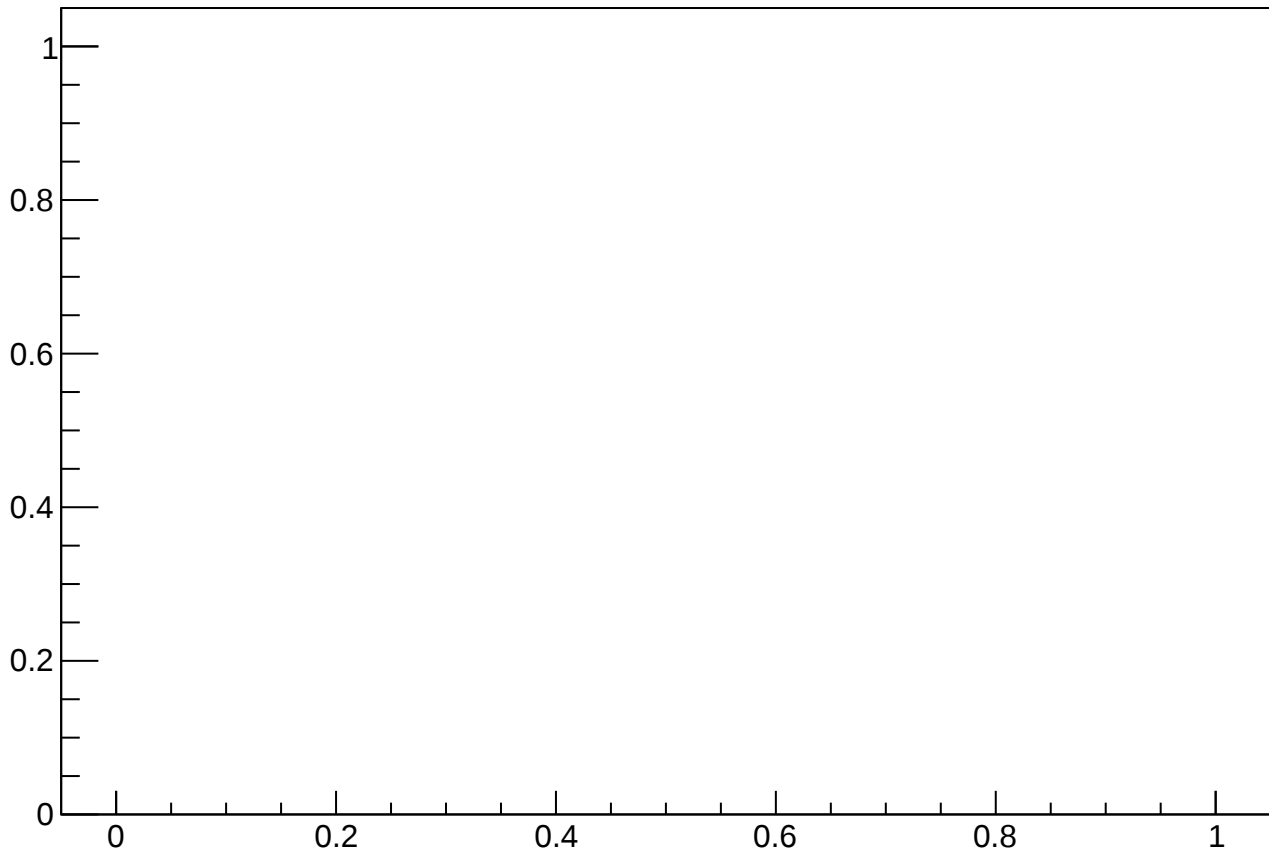
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

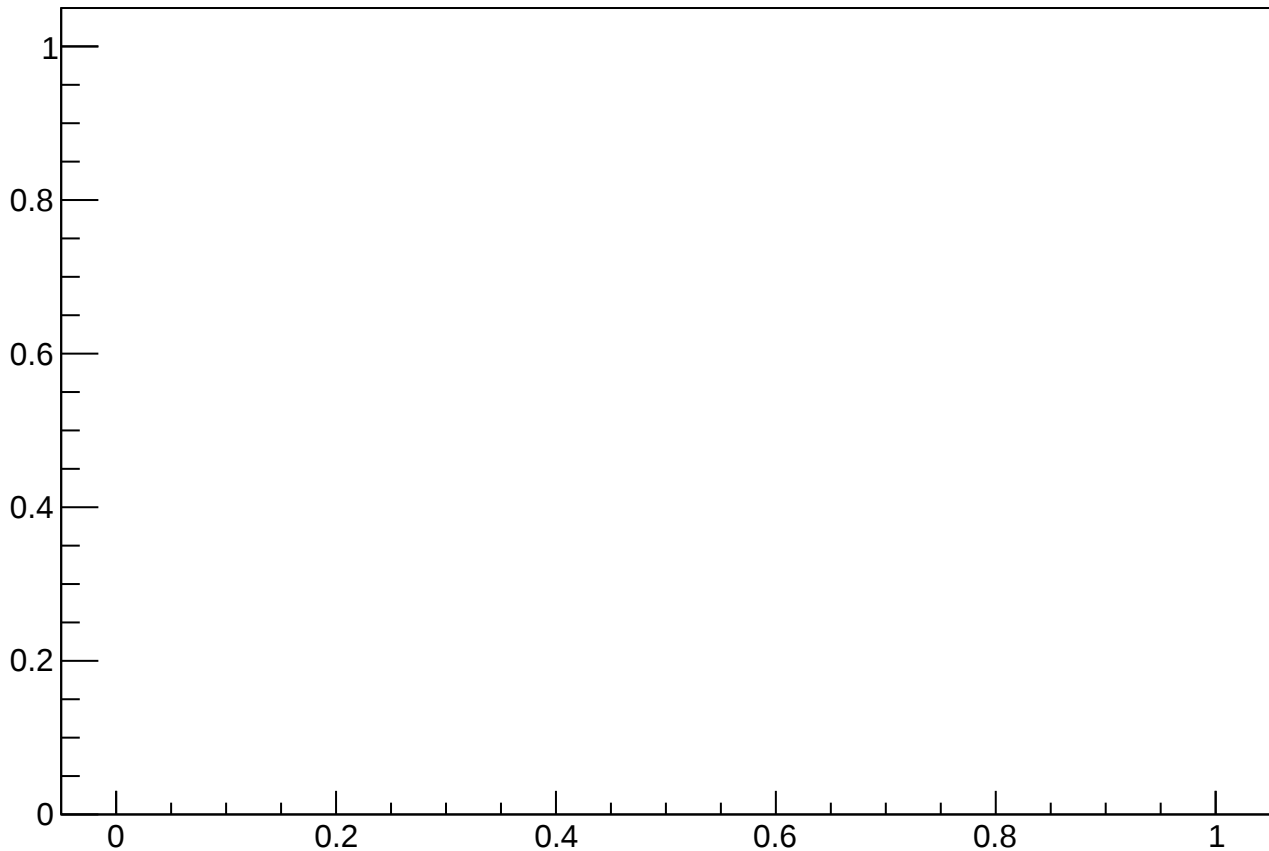
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam6\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

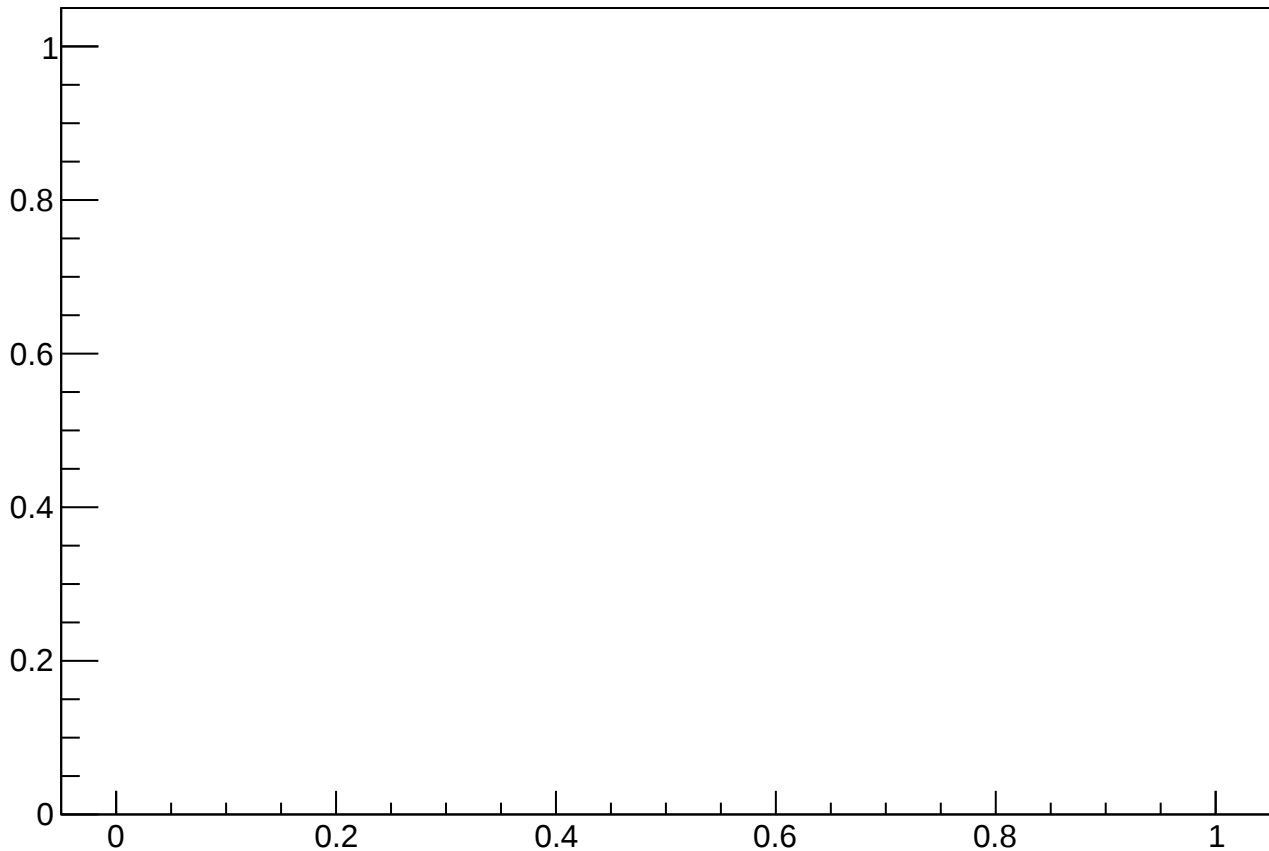
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam7\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

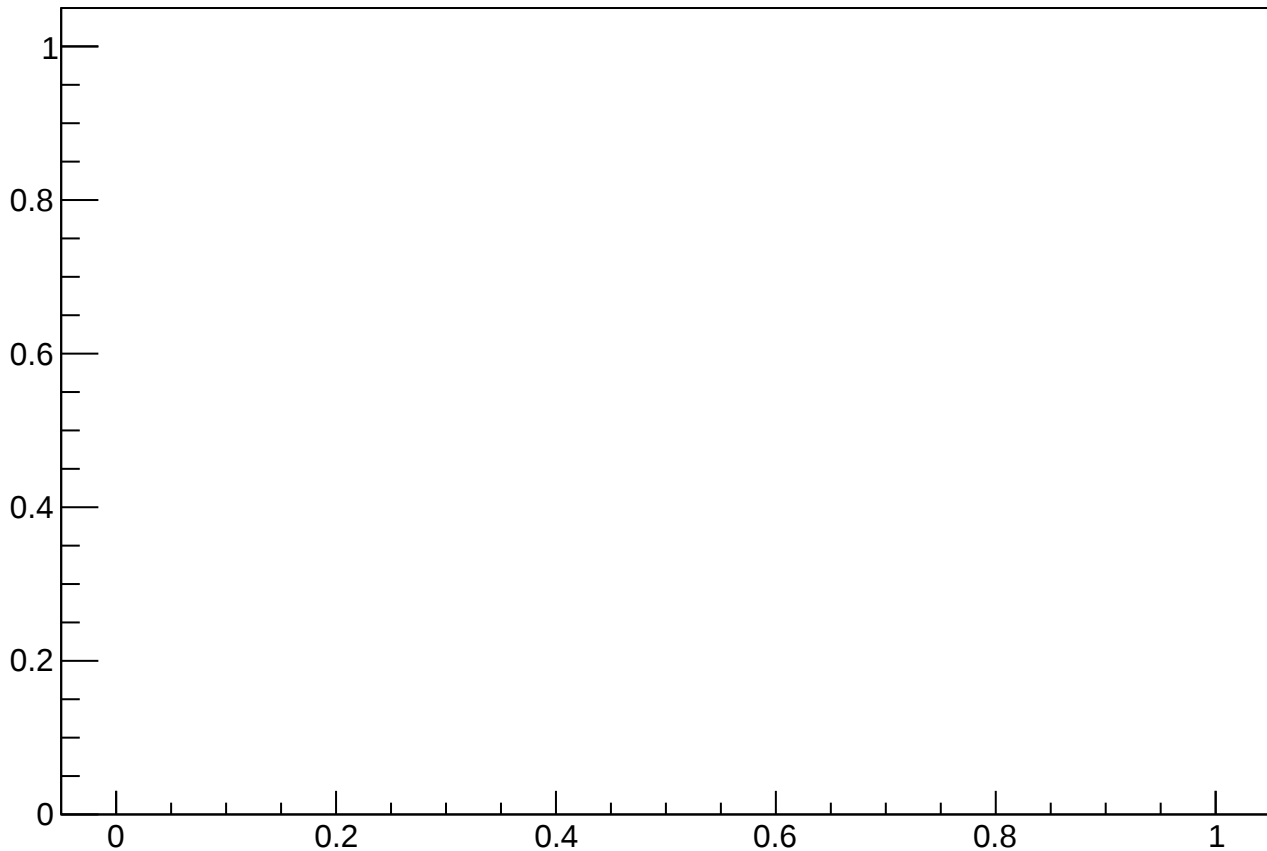
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

All: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

dit\_sam7\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

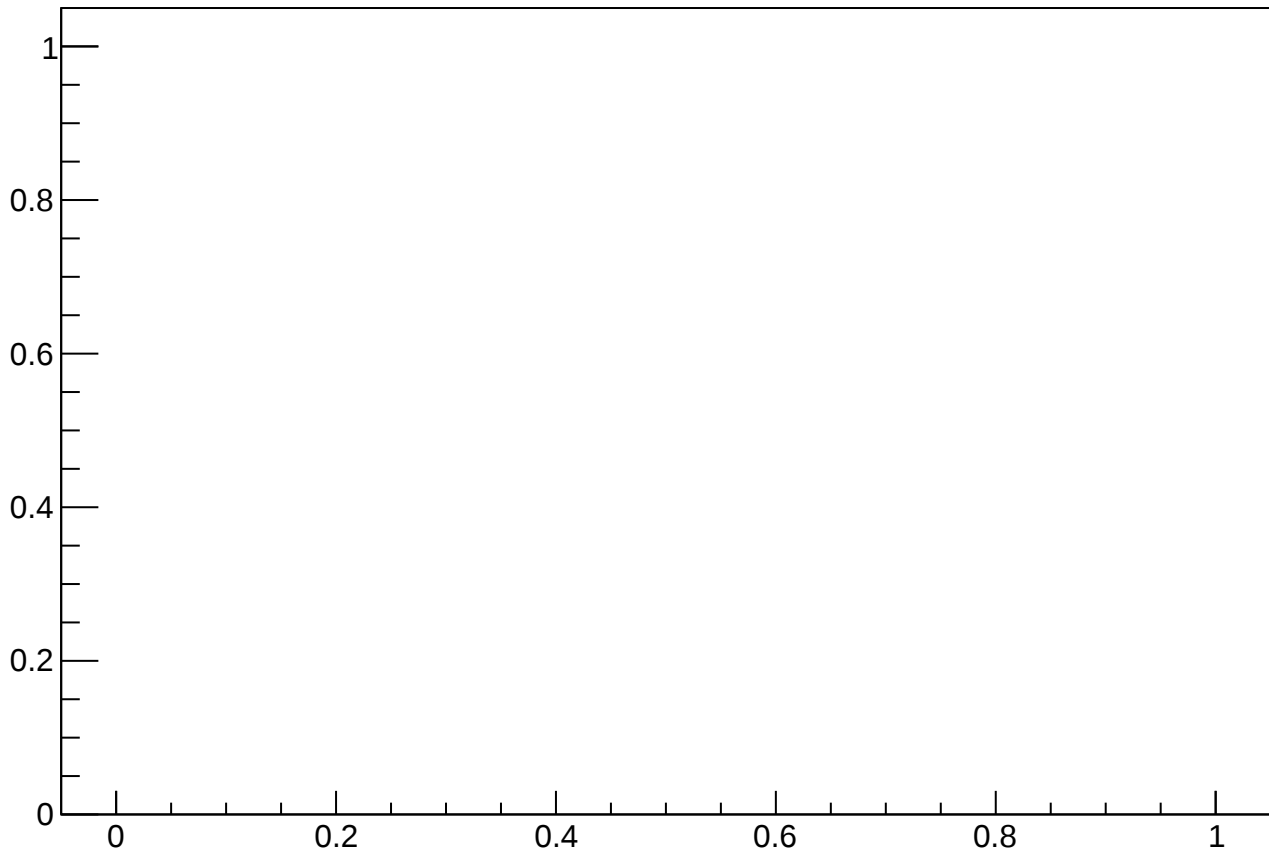
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam7\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

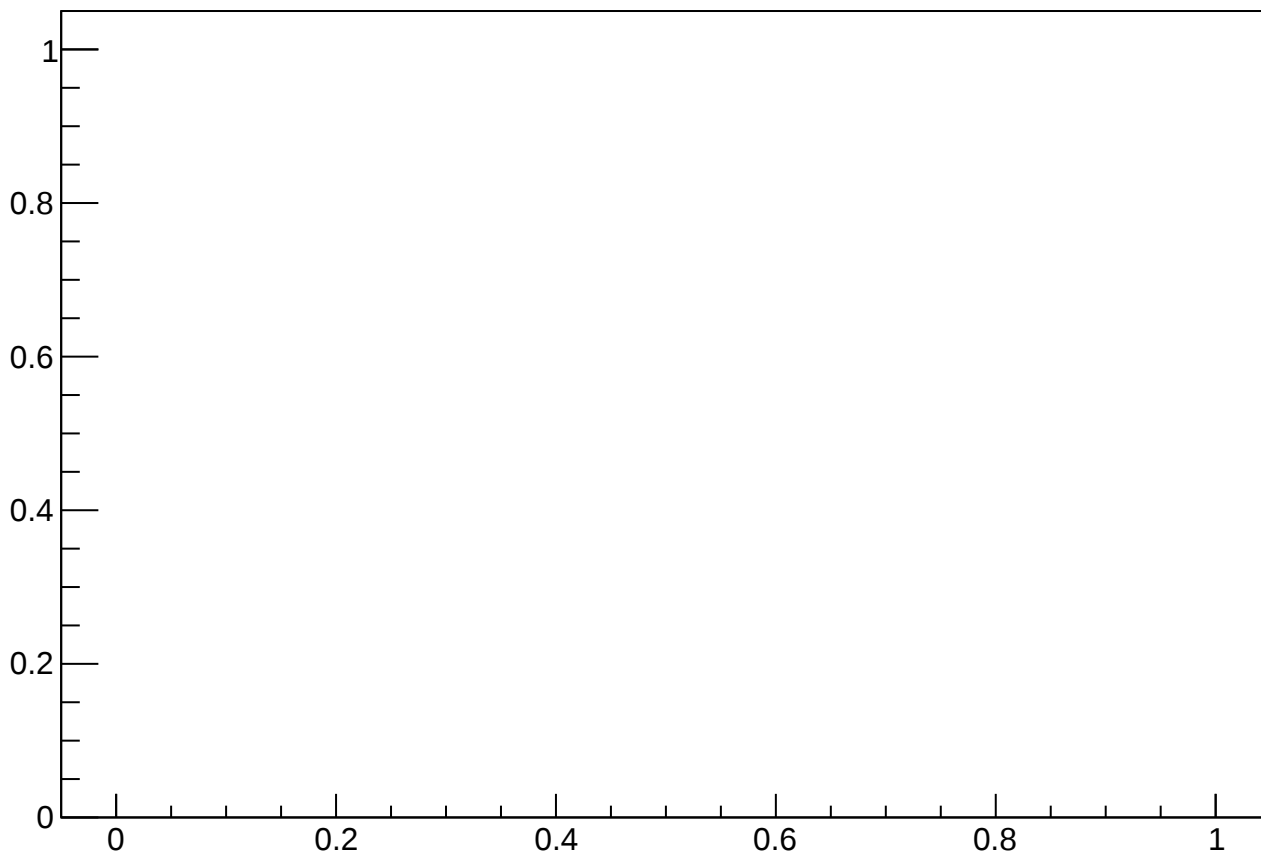
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_sam8\_coil6\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

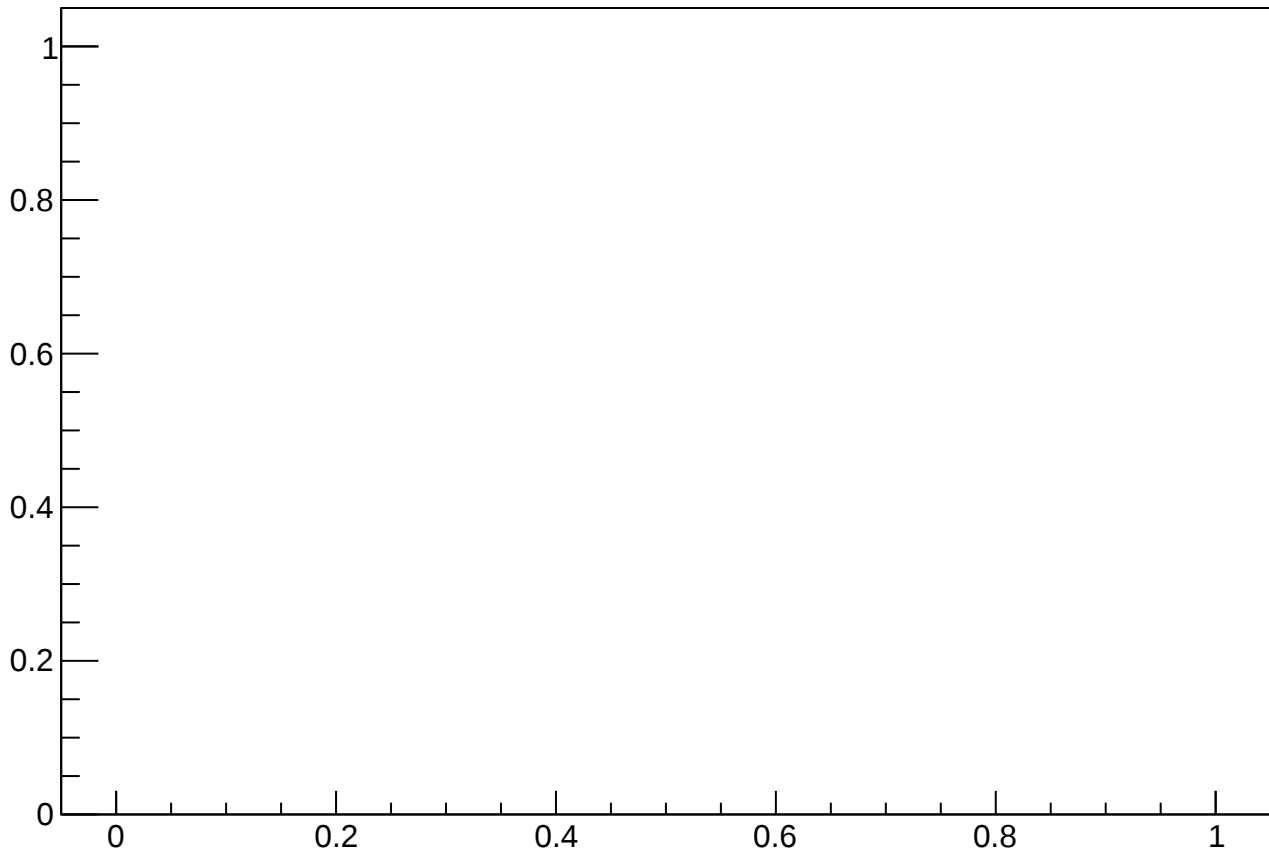
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil6\_err\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

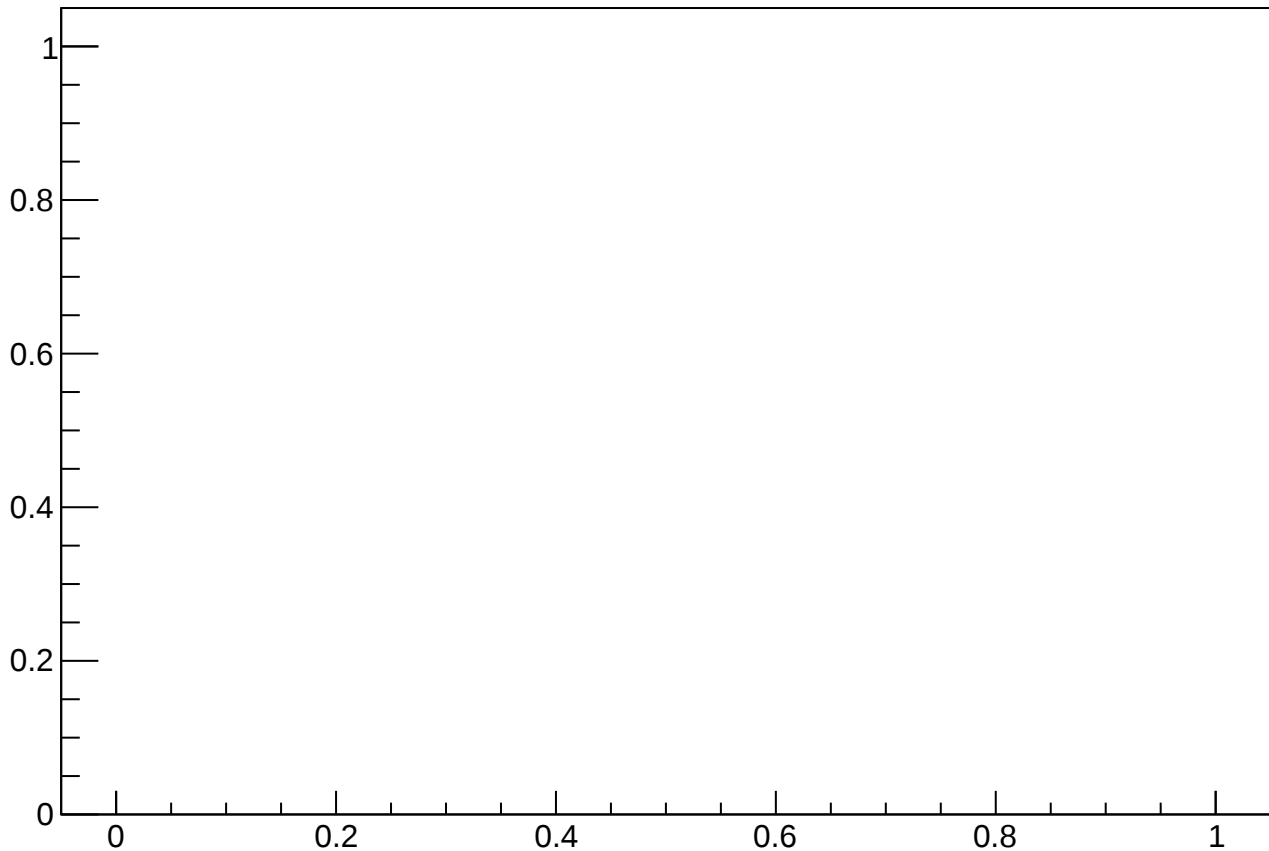
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_sam8\_coil6\_Ndata\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

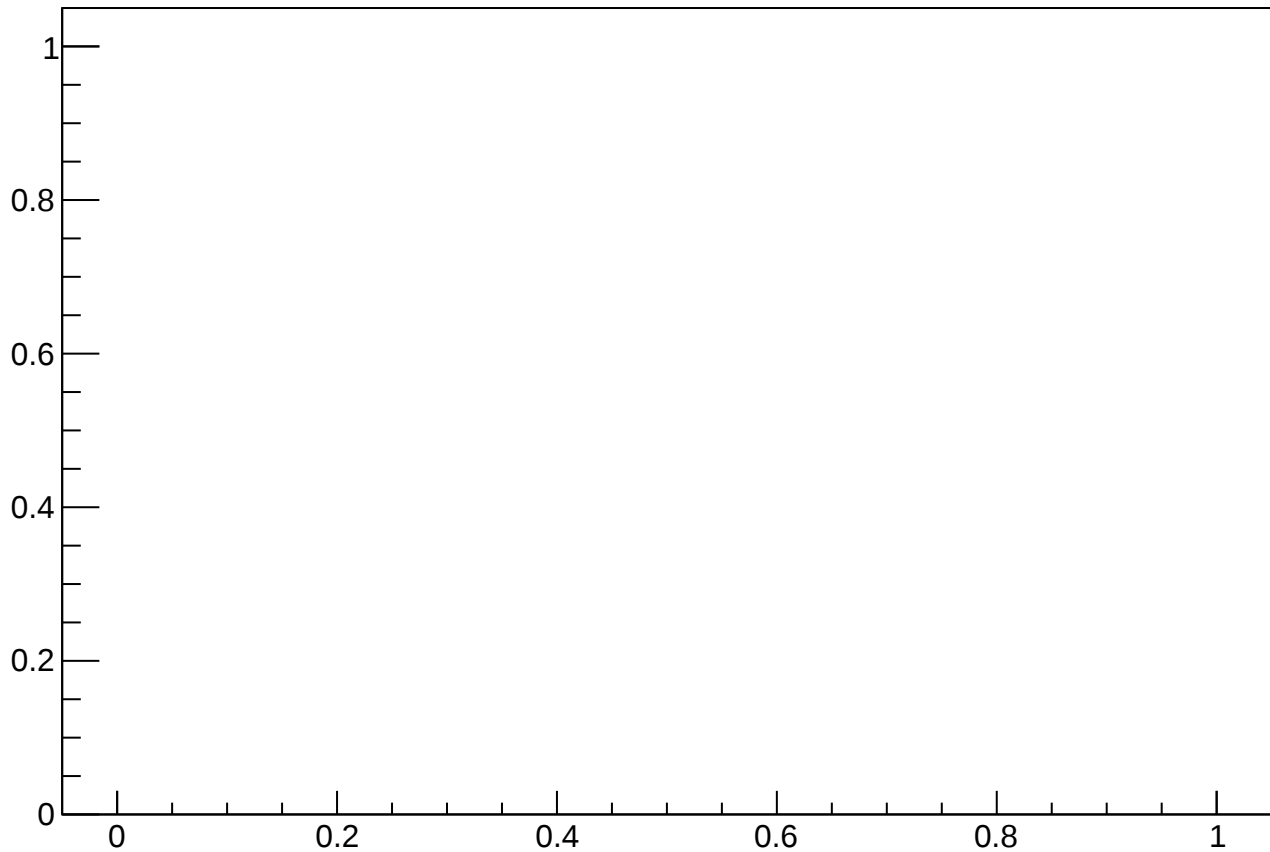
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

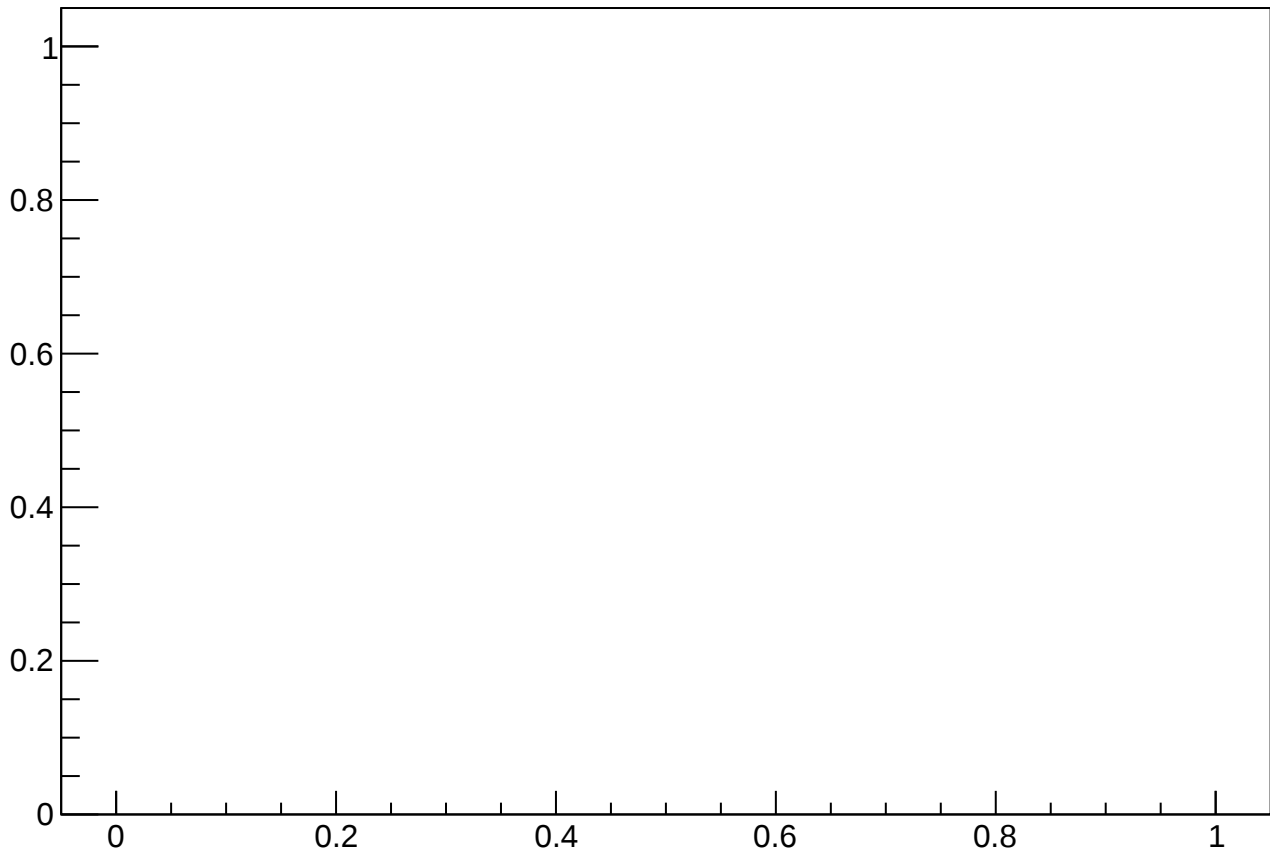
# dit\_run\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_run\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

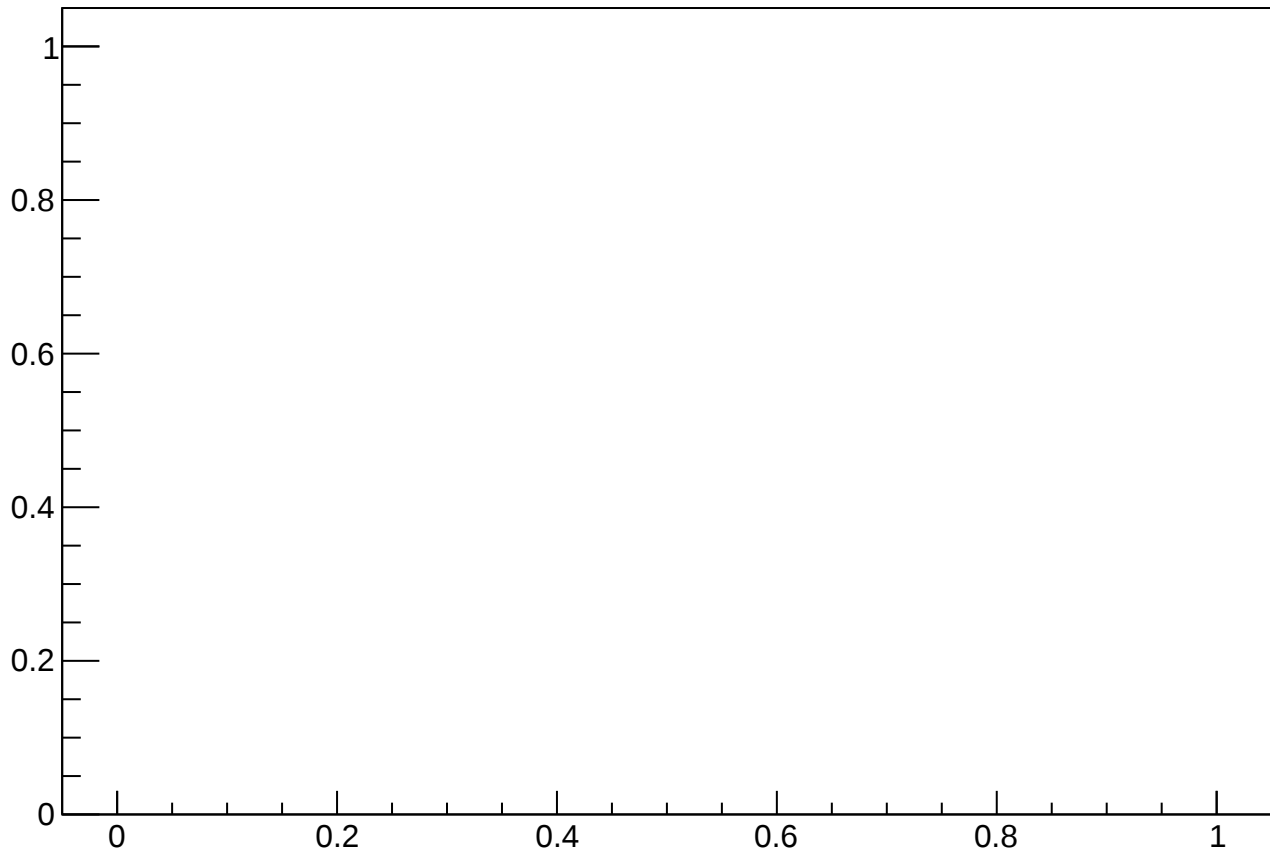
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

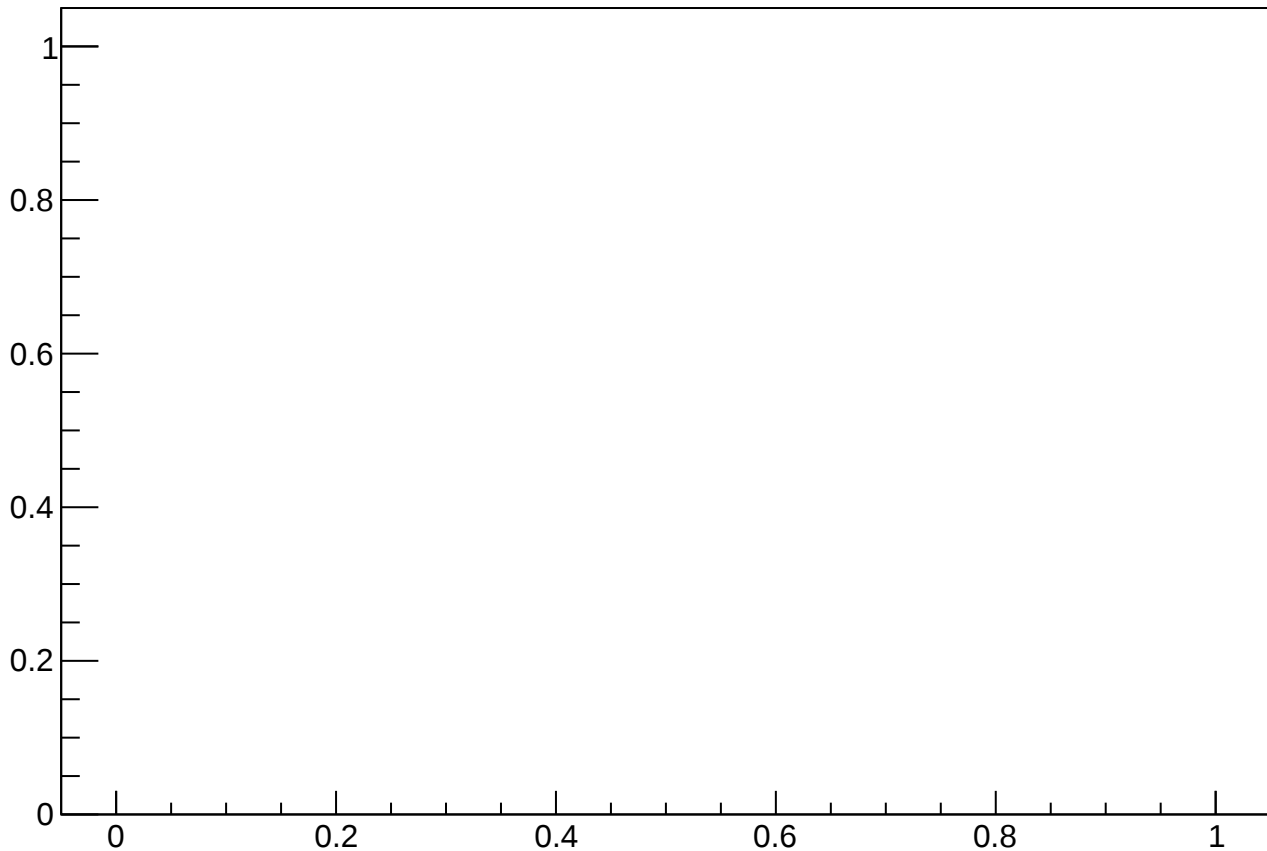
# dit\_slug\_slope vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

dit\_cyclenum\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

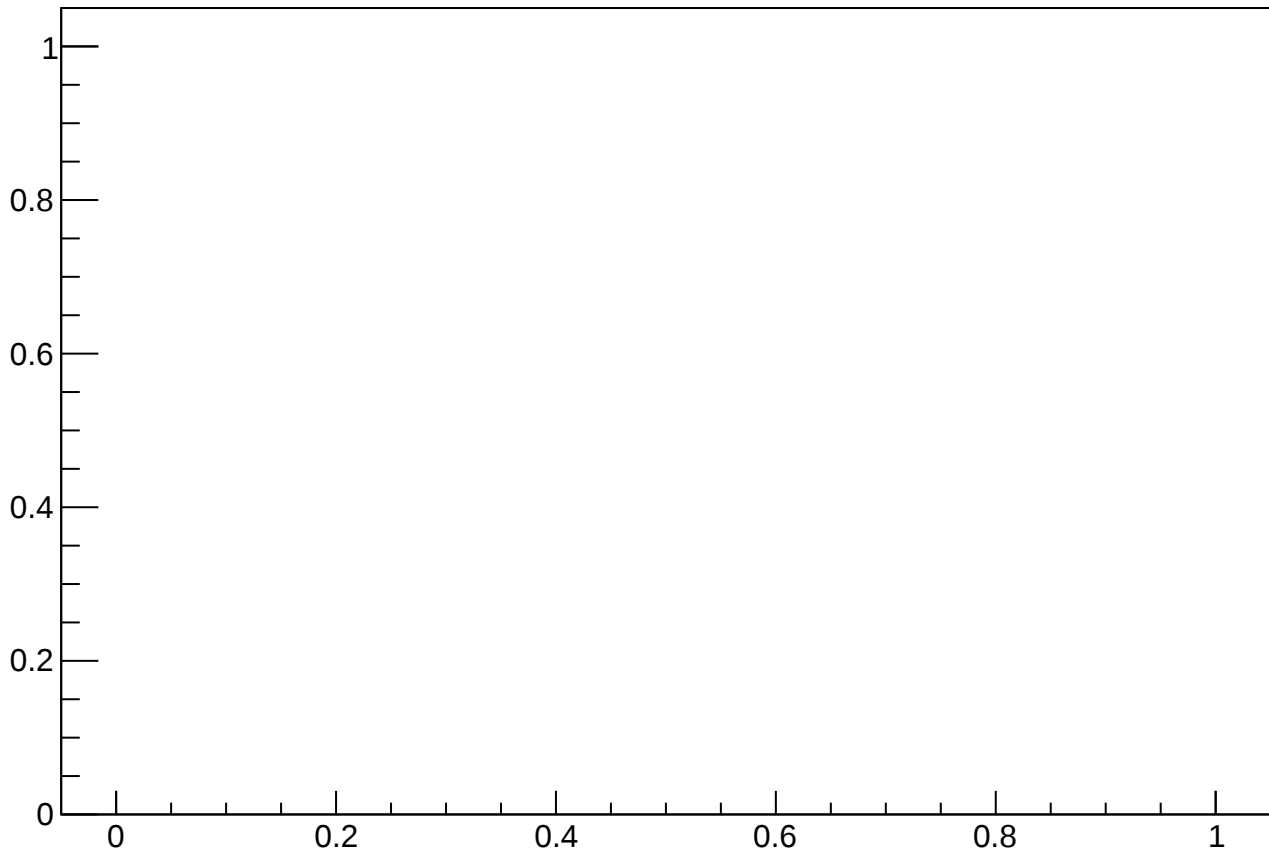
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_cyclenum\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

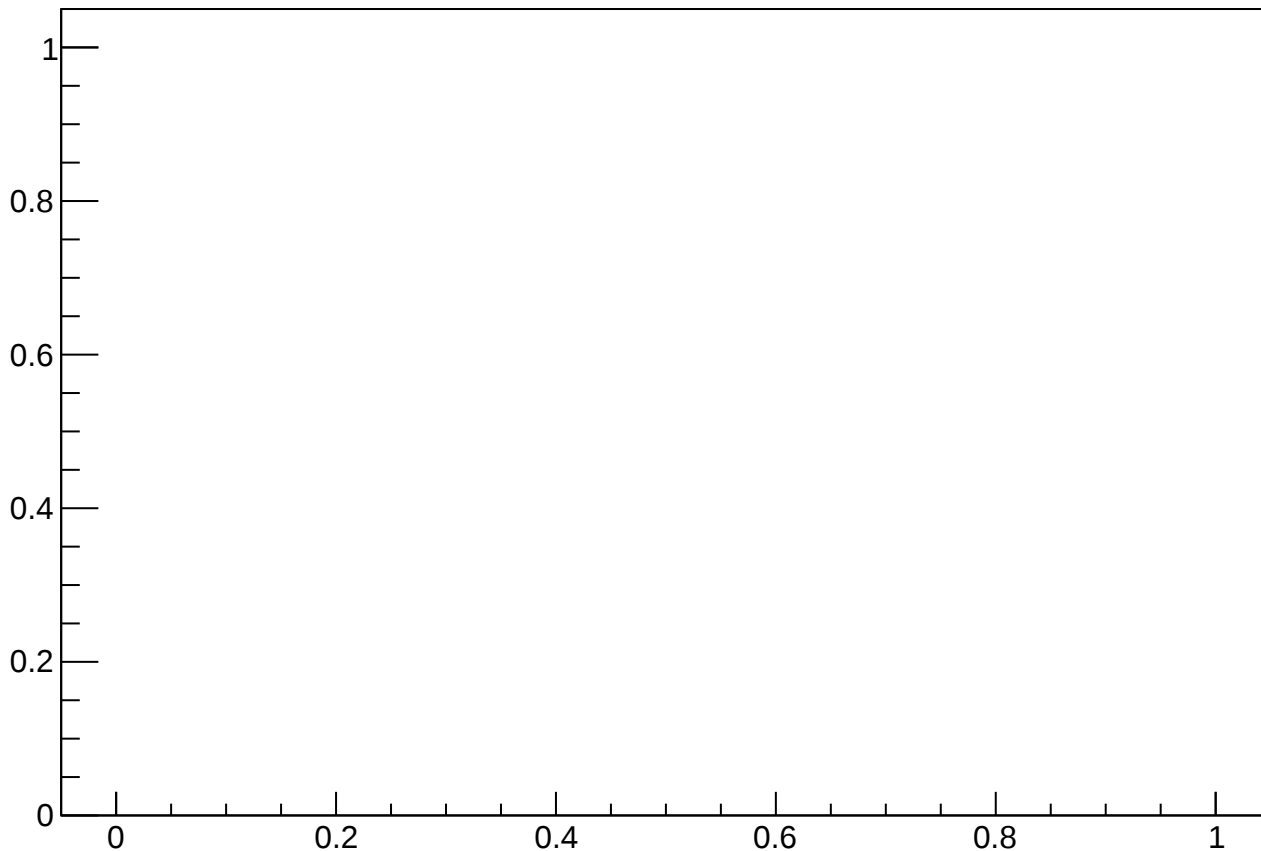
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata1\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

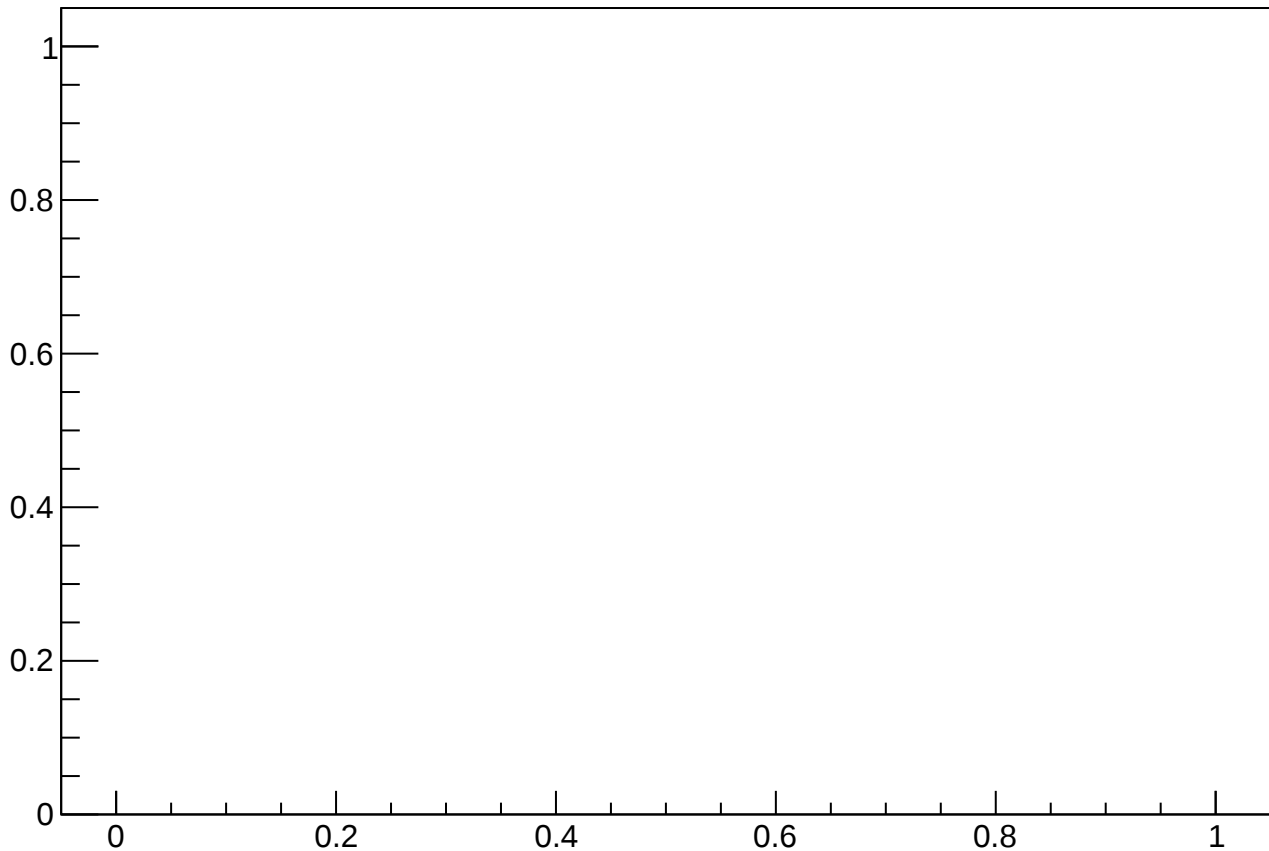
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata1\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

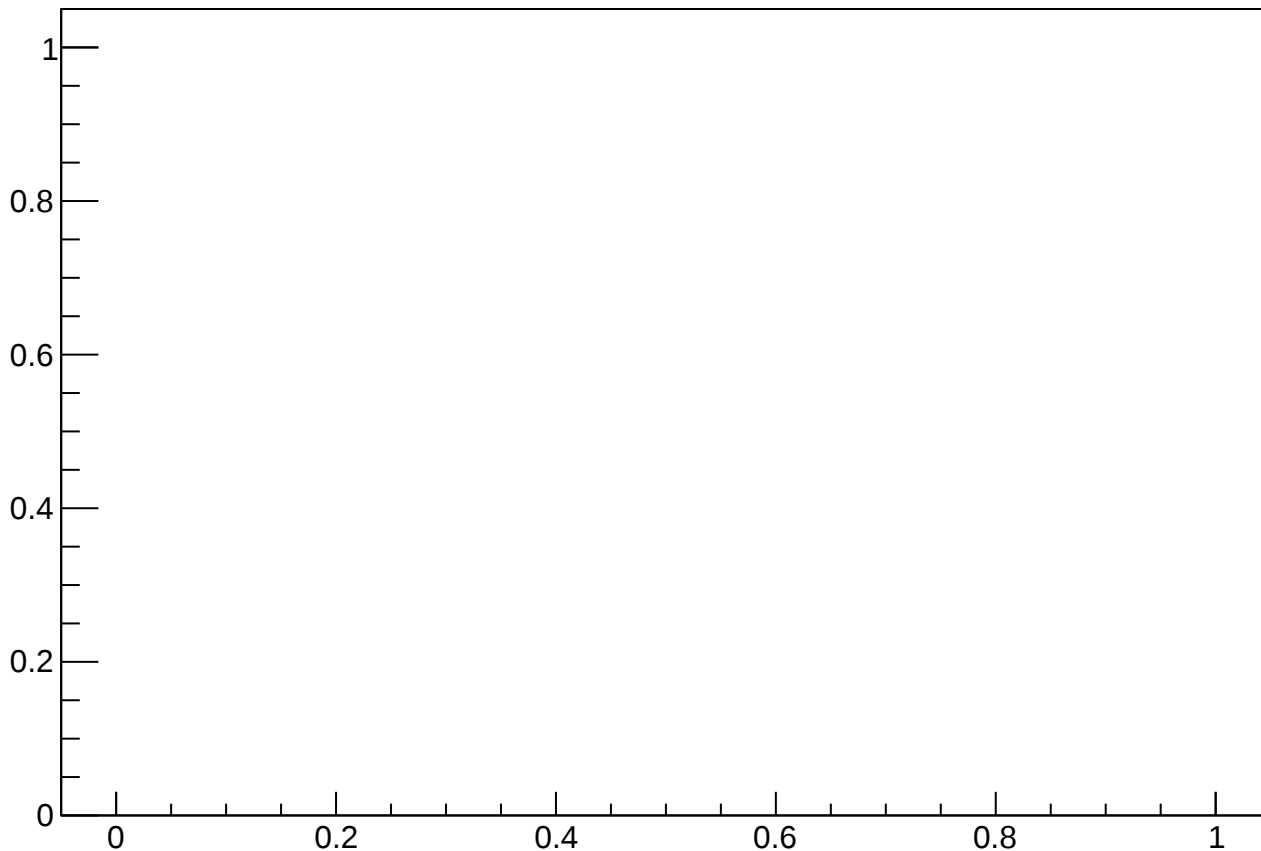
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_mean vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

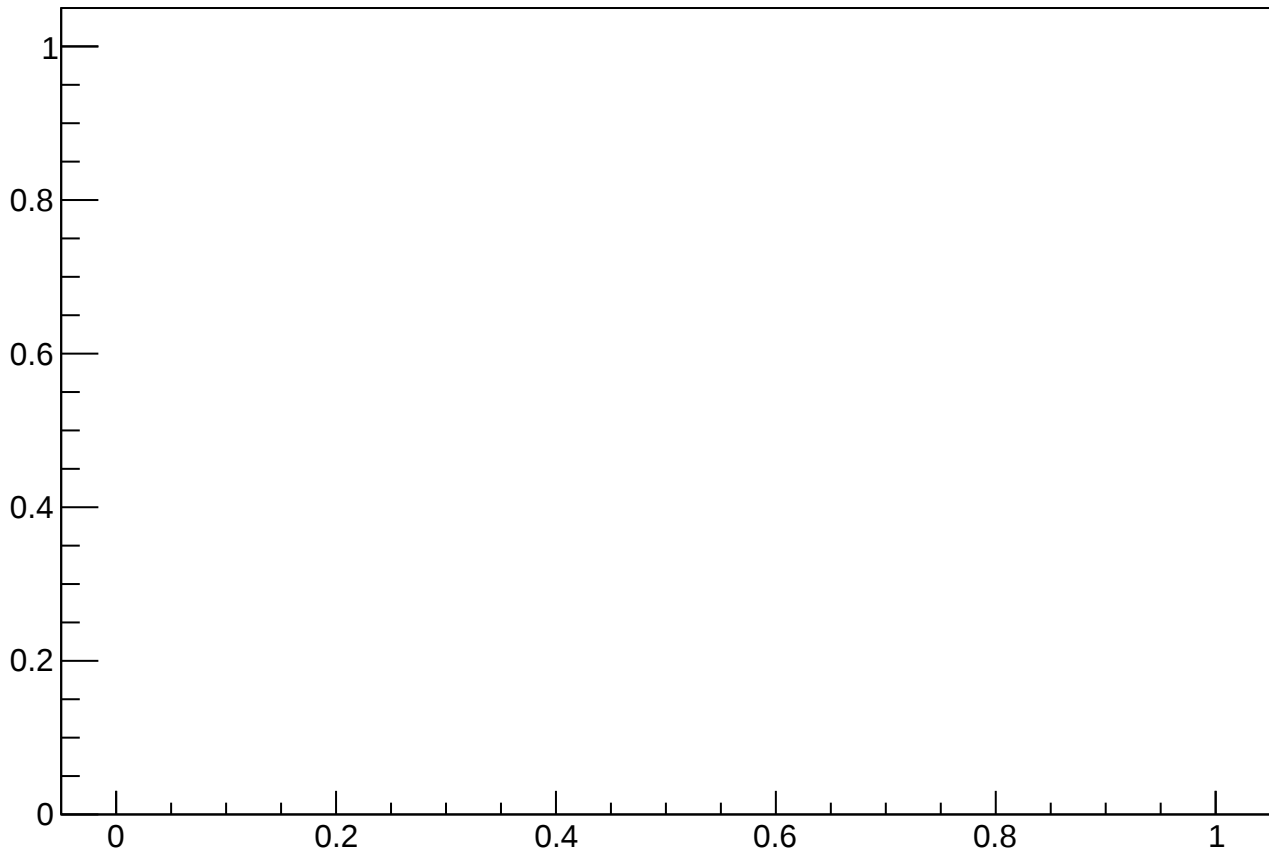
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

# dit\_scandata2\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

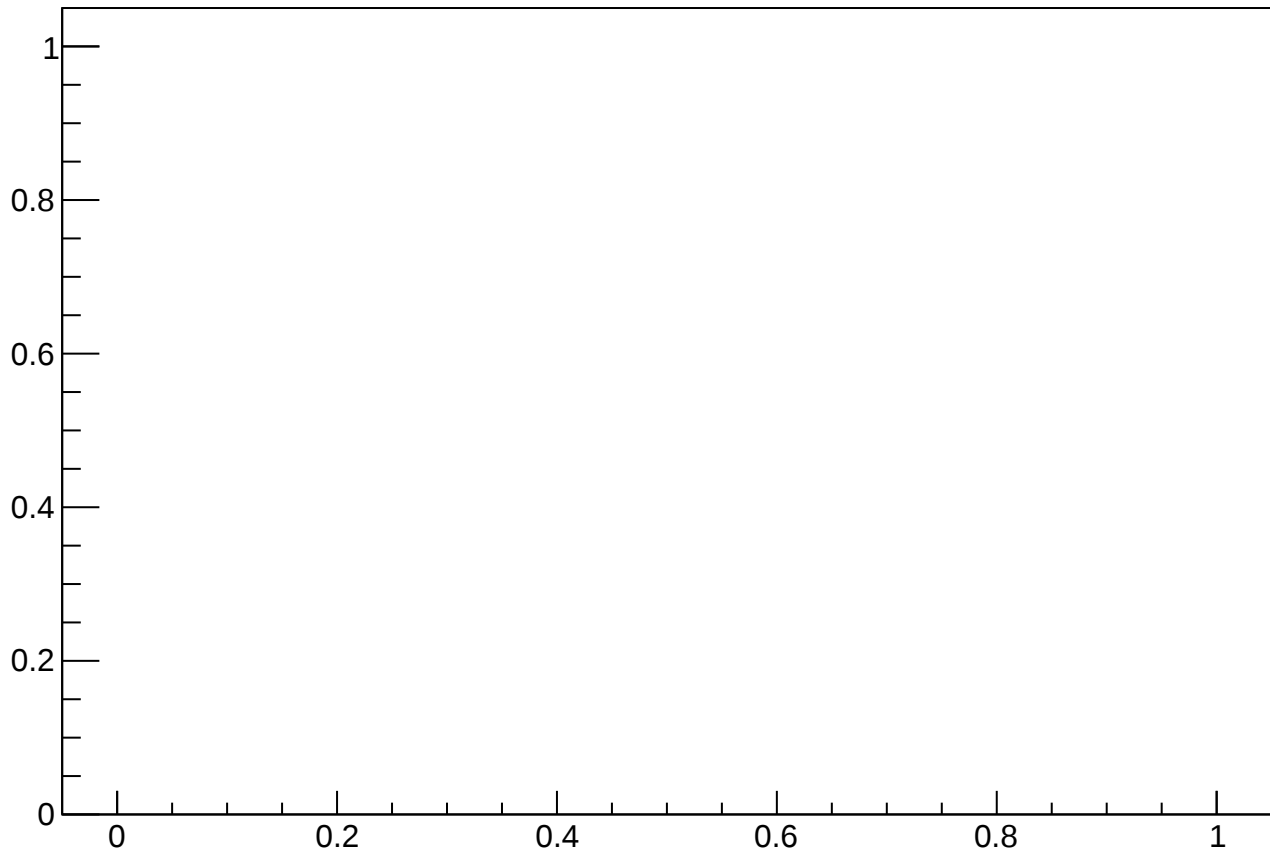
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

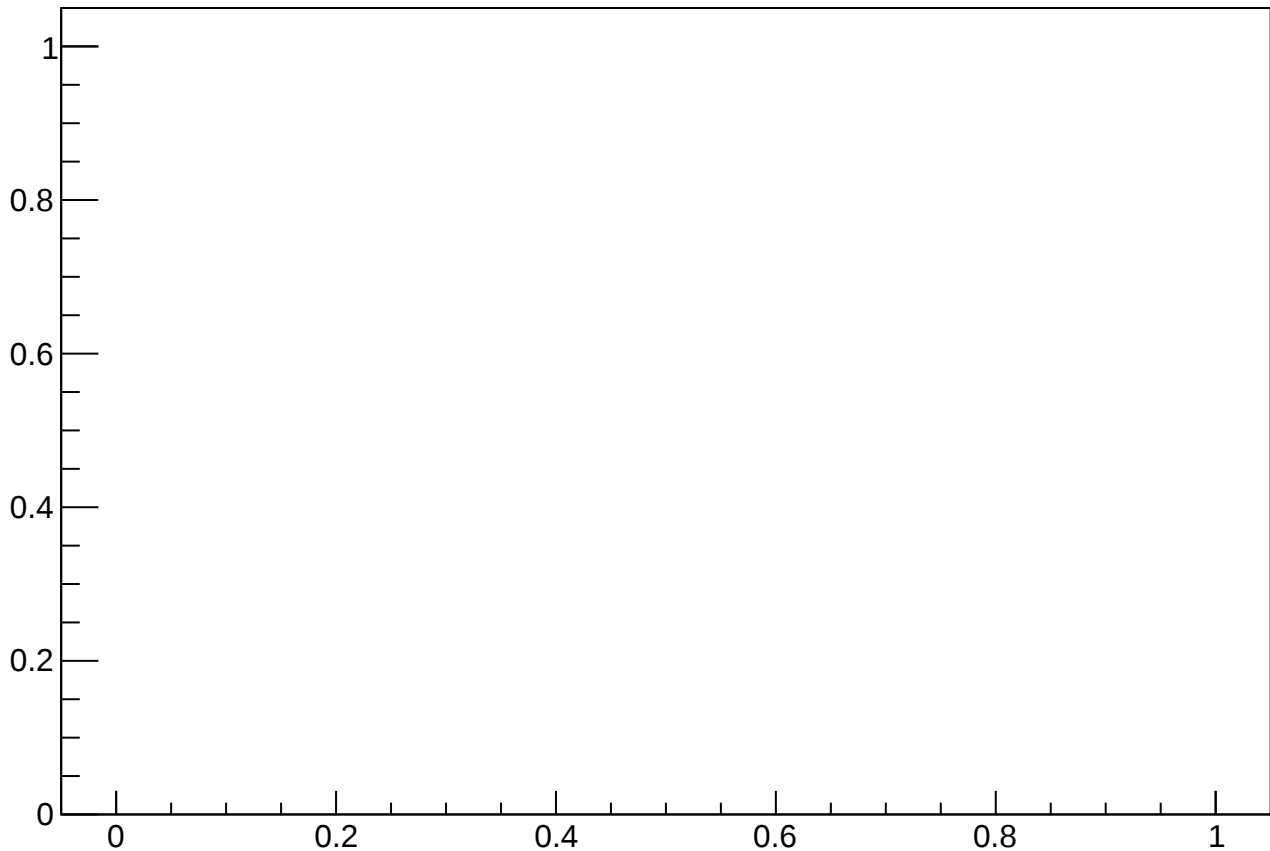
# dit\_flag\_mean vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Left: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Right: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0  
All: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# dit\_flag\_rms vs Slug, Sign Corrected



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

Left: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

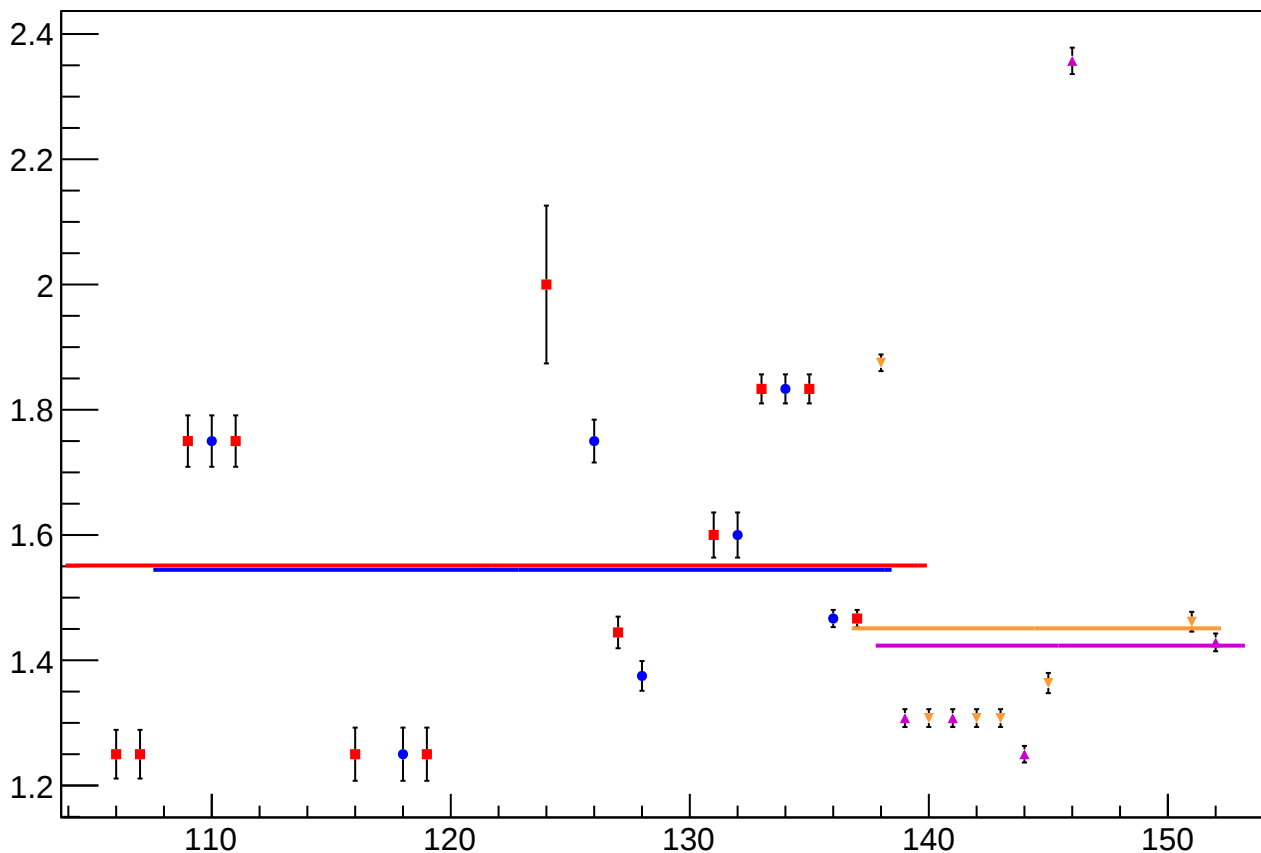
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# dit\_segment\_slope vs Slug, Sign Corrected



Right In: 1.544 $\pm$ 0.009  $\chi^2$ /NDF: 349.7/6

Left Out: 1.451 $\pm$ 0.006  $\chi^2$ /NDF:1360.0/5

Right Out: 1.551 $\pm$ 0.008  $\chi^2$ /NDF: 633.6/11

Left In: 1.423 $\pm$ 0.007  $\chi^2$ /NDF:2269.8/4

Left: 1.439 $\pm$ 0.004  $\chi^2$ /NDF: 3639.5/10

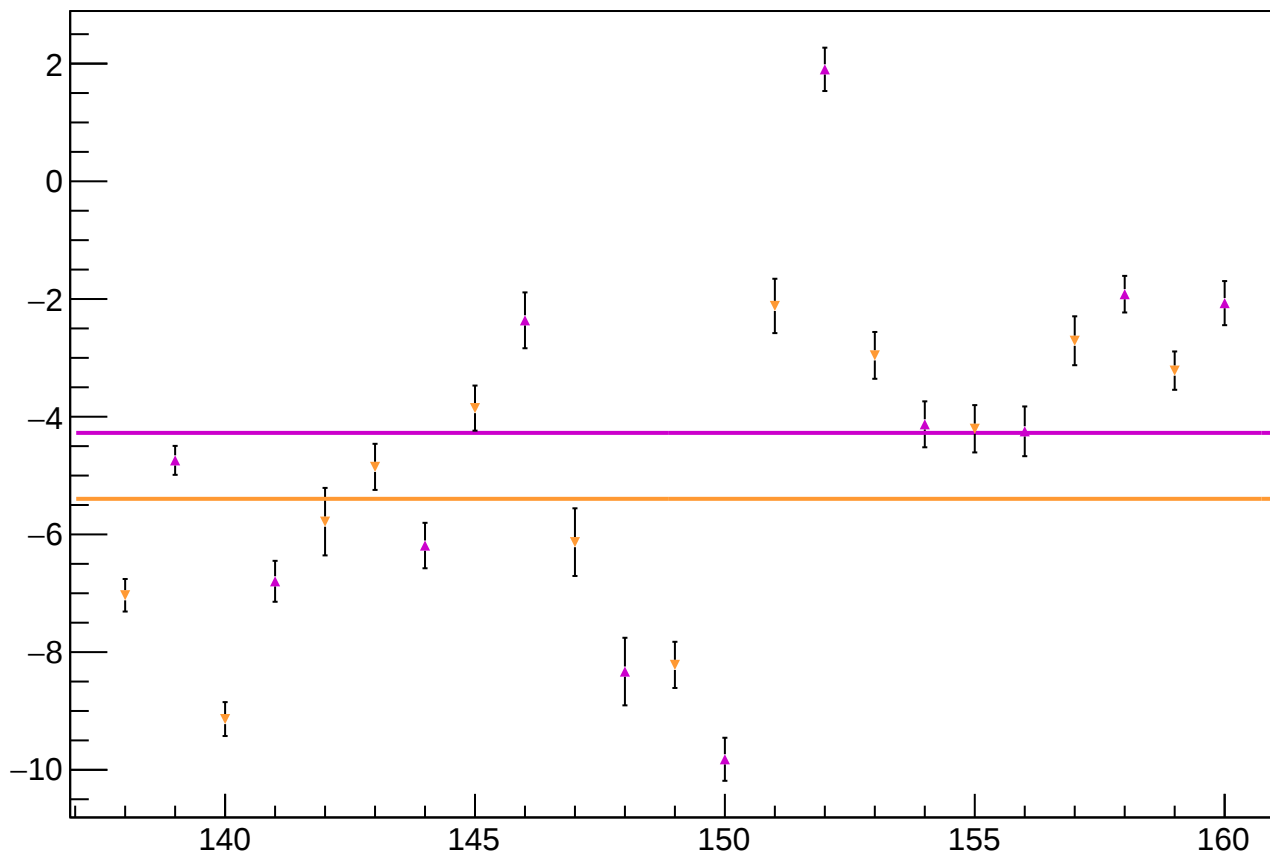
Right: 1.548 $\pm$ 0.006  $\chi^2$ /NDF: 983.5/18

In: 1.464 $\pm$ 0.005  $\chi^2$ /NDF:2732.9/11

Out: 1.486 $\pm$ 0.005  $\chi^2$ /NDF:2092.6/17

All: 1.476 $\pm$ 0.004  $\chi^2$ /NDF: 4834.2/29

reg\_asym\_sam1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



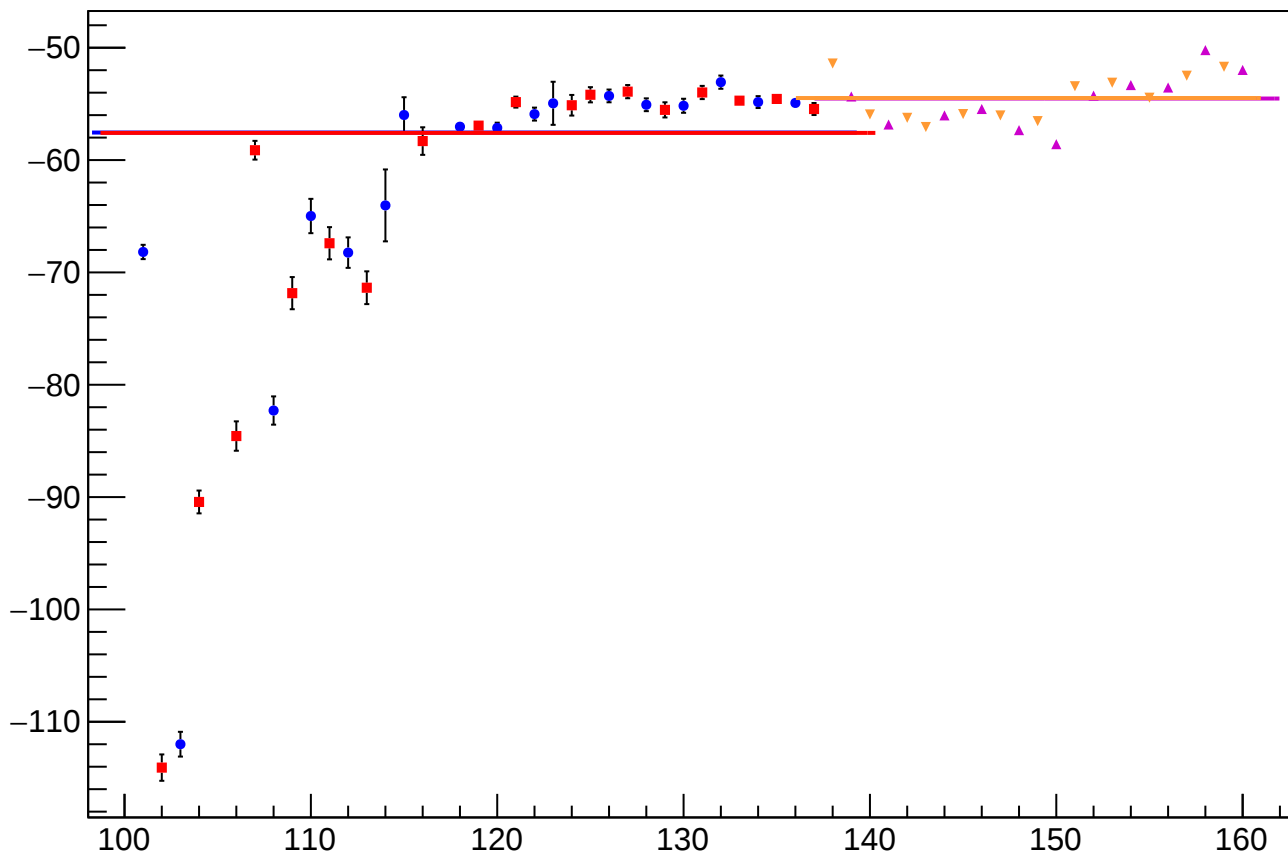
Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-5.395 \pm 0.109$   $\chi^2/\text{NDF}: 458.9/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-4.275 \pm 0.109$   $\chi^2/\text{NDF}: 750.3/10$

Left:  $-4.835 \pm 0.077$   $\chi^2/\text{NDF}: 1261.7/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-4.275 \pm 0.109$   $\chi^2/\text{NDF}: 750.3/10$   
 Out:  $-5.395 \pm 0.109$   $\chi^2/\text{NDF}: 458.9/11$

All:  $-4.835 \pm 0.077$   $\chi^2/\text{NDF}: 1261.7/22$

reg\_asym\_sam1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-57.549 \pm 0.142$   $\chi^2/\text{NDF}$ : 3460.4/16

Left Out:  $-54.478 \pm 0.080$   $\chi^2/\text{NDF}$ : 592.6/11

Right Out:  $-57.581 \pm 0.143$   $\chi^2/\text{NDF}$ : 4343.8/17

Left In:  $-54.522 \pm 0.082$   $\chi^2/\text{NDF}$ : 1021.4/10

Left:  $-54.500 \pm 0.057$   $\chi^2/\text{NDF}$ : 1614.1/22

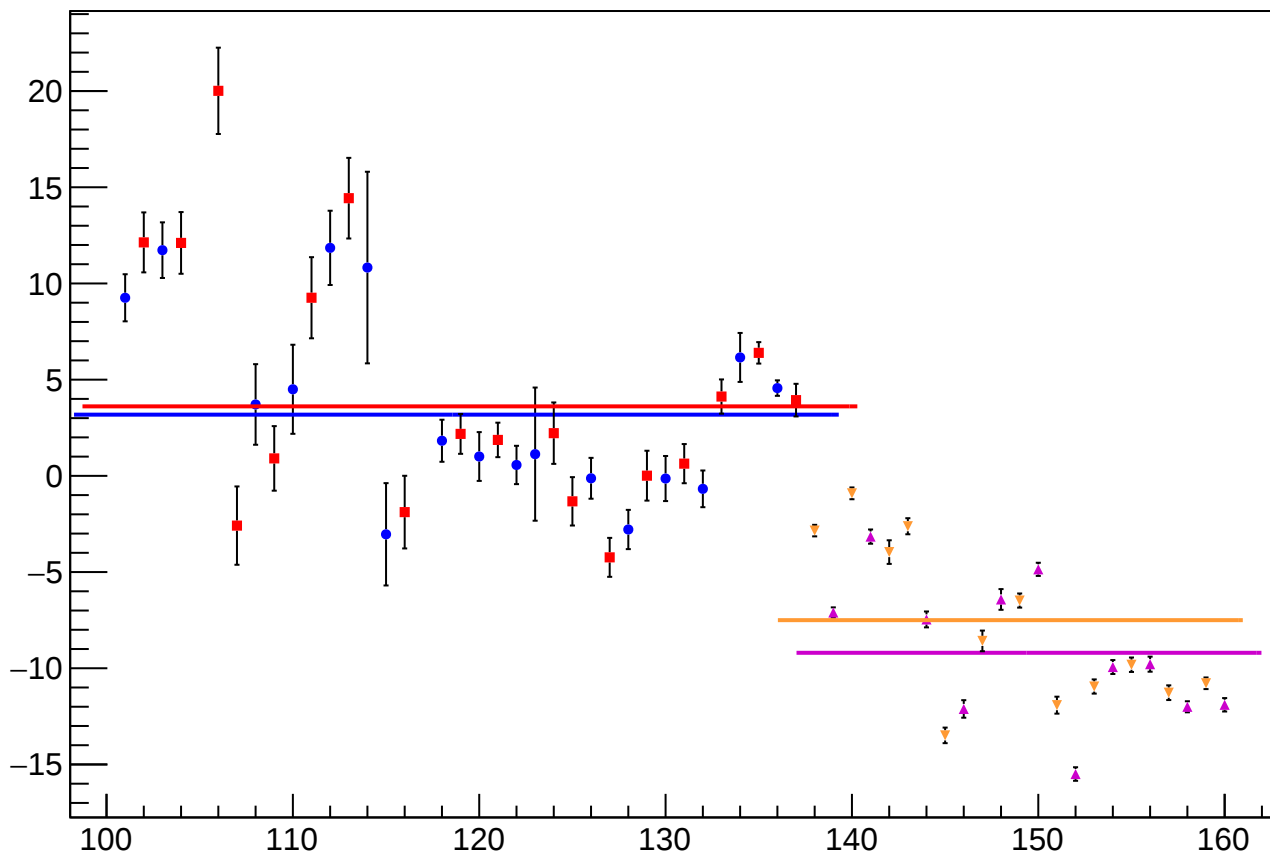
Right:  $-57.565 \pm 0.101$   $\chi^2/\text{NDF}$ : 7804.2/34

In:  $-55.282 \pm 0.071$   $\chi^2/\text{NDF}$ : 4824.0/27

Out:  $-55.221 \pm 0.070$   $\chi^2/\text{NDF}$ : 5294.8/29

All:  $-55.251 \pm 0.050$   $\chi^2/\text{NDF}$ : 10119.2/57

reg\_asym\_sam1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $3.181 \pm 0.258$   $\chi^2/\text{NDF}: 185.2/16$

Left Out:  $-7.500 \pm 0.109$   $\chi^2/\text{NDF}: 1543.0/11$

Right Out:  $3.612 \pm 0.268$   $\chi^2/\text{NDF}: 289.2/17$

Left In:  $-9.196 \pm 0.107$   $\chi^2/\text{NDF}: 1056.3/10$

Left:  $-8.359 \pm 0.076$   $\chi^2/\text{NDF}: 2722.4/22$

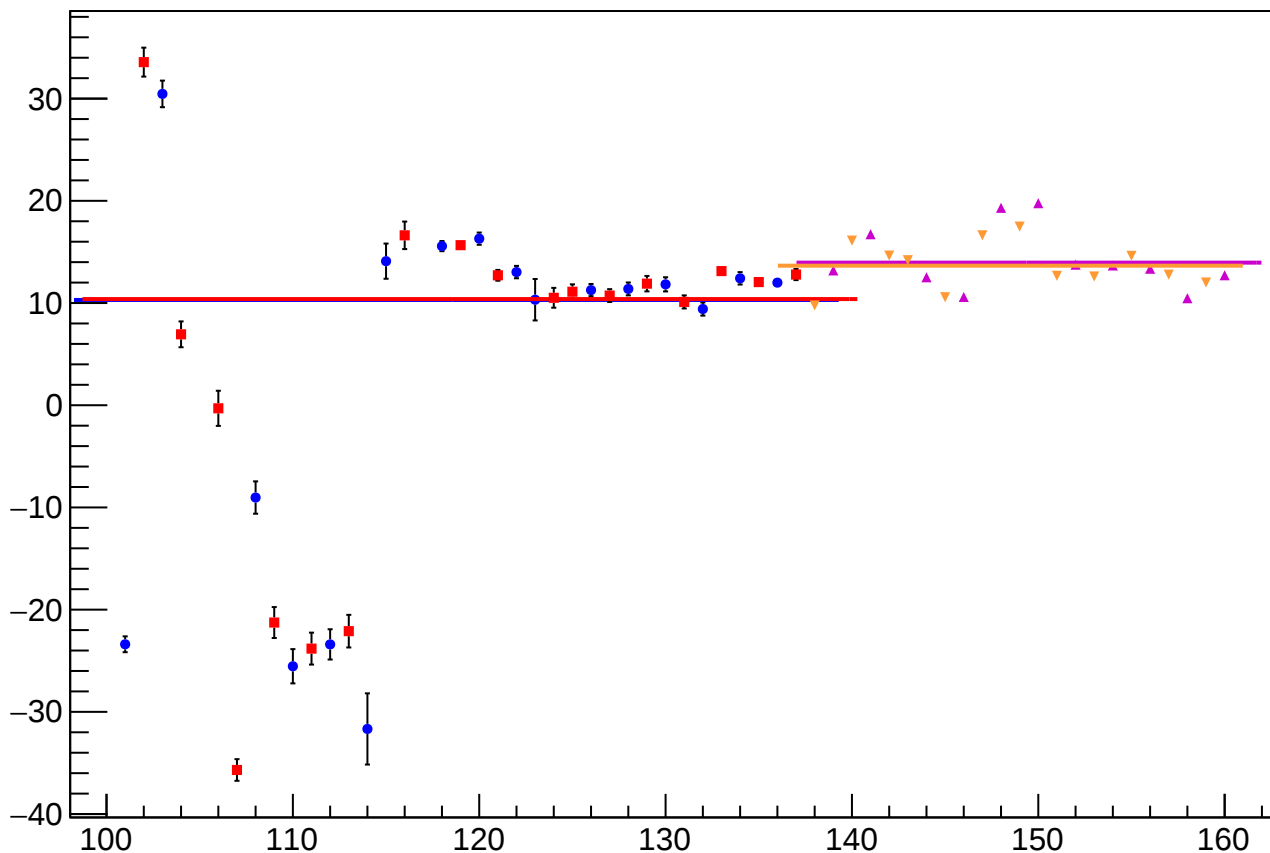
Right:  $3.388 \pm 0.186$   $\chi^2/\text{NDF}: 475.8/34$

In:  $-7.367 \pm 0.099$   $\chi^2/\text{NDF}: 3203.1/27$

Out:  $-5.926 \pm 0.101$   $\chi^2/\text{NDF}: 3309.3/29$

All:  $-6.658 \pm 0.071$   $\chi^2/\text{NDF}: 6616.1/57$

reg\_asym\_sam1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.301+/-0.157  $\chi^2/\text{NDF}$ : 3699.4/16

Left Out: 13.655+/-0.094  $\chi^2/\text{NDF}$ : 573.0/11

Right Out: 10.388+/-0.160  $\chi^2/\text{NDF}$ : 3786.4/17

Left In: 13.953+/-0.094  $\chi^2/\text{NDF}$ : 1040.5/10

Left: 13.804+/-0.066  $\chi^2/\text{NDF}$ : 1618.6/22

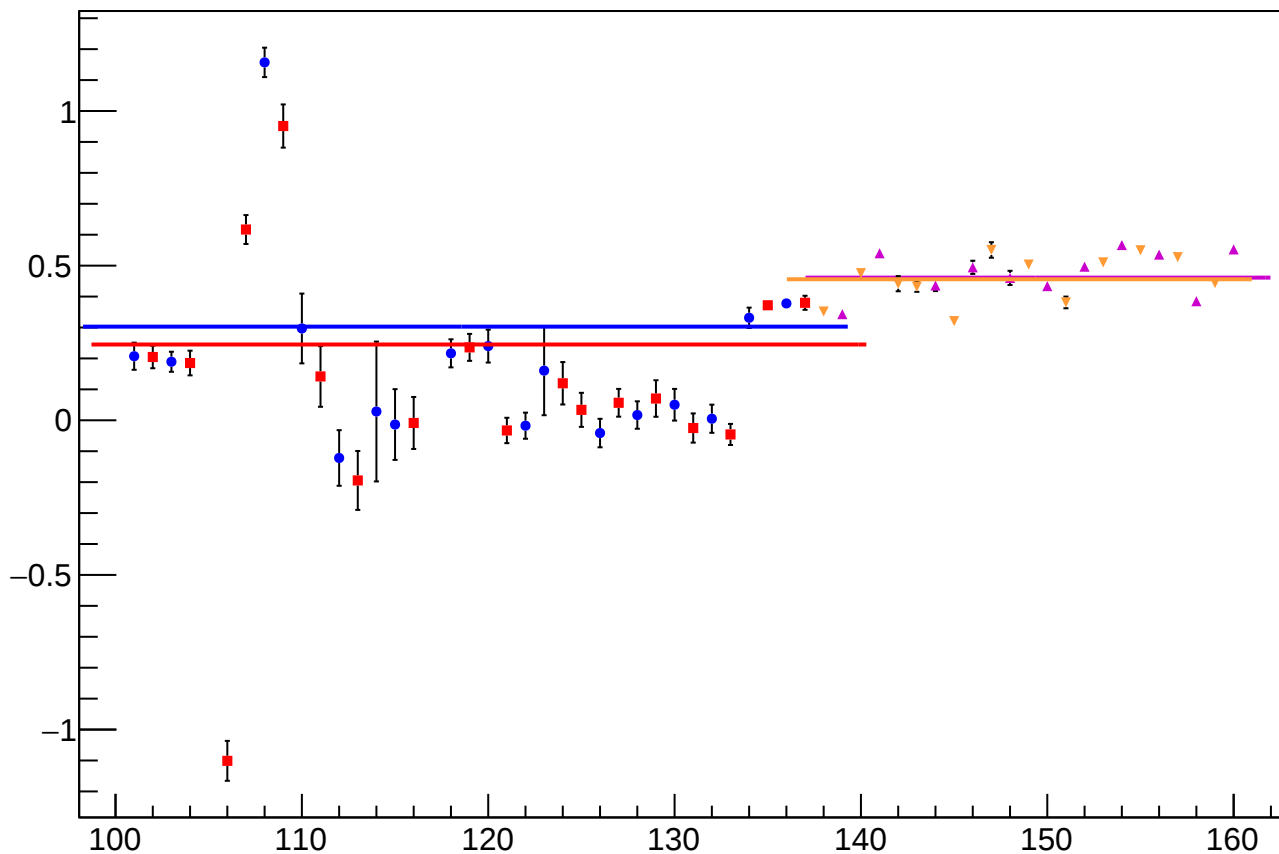
Right: 10.344+/-0.112  $\chi^2/\text{NDF}$ : 7485.9/34

In: 12.989+/-0.081  $\chi^2/\text{NDF}$ : 5138.4/27

Out: 12.819+/-0.081  $\chi^2/\text{NDF}$ : 4670.1/29

All: 12.905+/-0.057  $\chi^2/\text{NDF}$ : 9810.7/57

reg\_asym\_sam1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.303 \pm 0.008$   $\chi^2/\text{NDF}$ : 647.2/16

Left Out:  $0.456 \pm 0.004$   $\chi^2/\text{NDF}$ : 299.9/11

Right Out:  $0.245 \pm 0.009$   $\chi^2/\text{NDF}$ : 954.5/17

Left In:  $0.461 \pm 0.004$   $\chi^2/\text{NDF}$ : 408.5/10

Left:  $0.459 \pm 0.003$   $\chi^2/\text{NDF}$ : 709.2/22

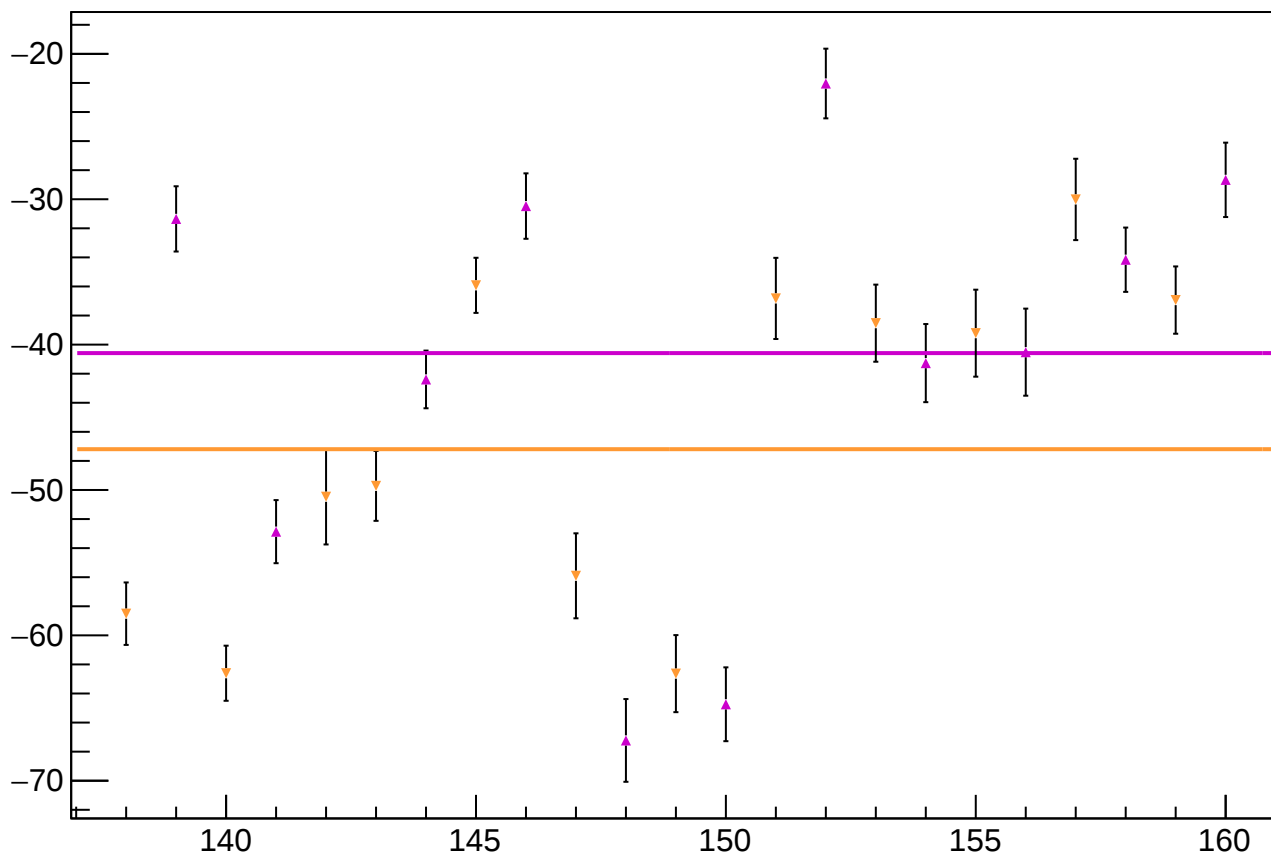
Right:  $0.275 \pm 0.006$   $\chi^2/\text{NDF}$ : 1625.6/34

In:  $0.430 \pm 0.004$   $\chi^2/\text{NDF}$ : 1355.8/27

Out:  $0.415 \pm 0.004$   $\chi^2/\text{NDF}$ : 1748.4/29

All:  $0.423 \pm 0.003$   $\chi^2/\text{NDF}$ : 3112.6/57

reg\_asym\_sam2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -47.193+/-0.708  $\chi^2/\text{NDF}$ :263.1/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -40.584+/-0.721  $\chi^2/\text{NDF}$ :338.2/10

Left: -43.950+/-0.505  $\chi^2/\text{NDF}$ : 644.0/22

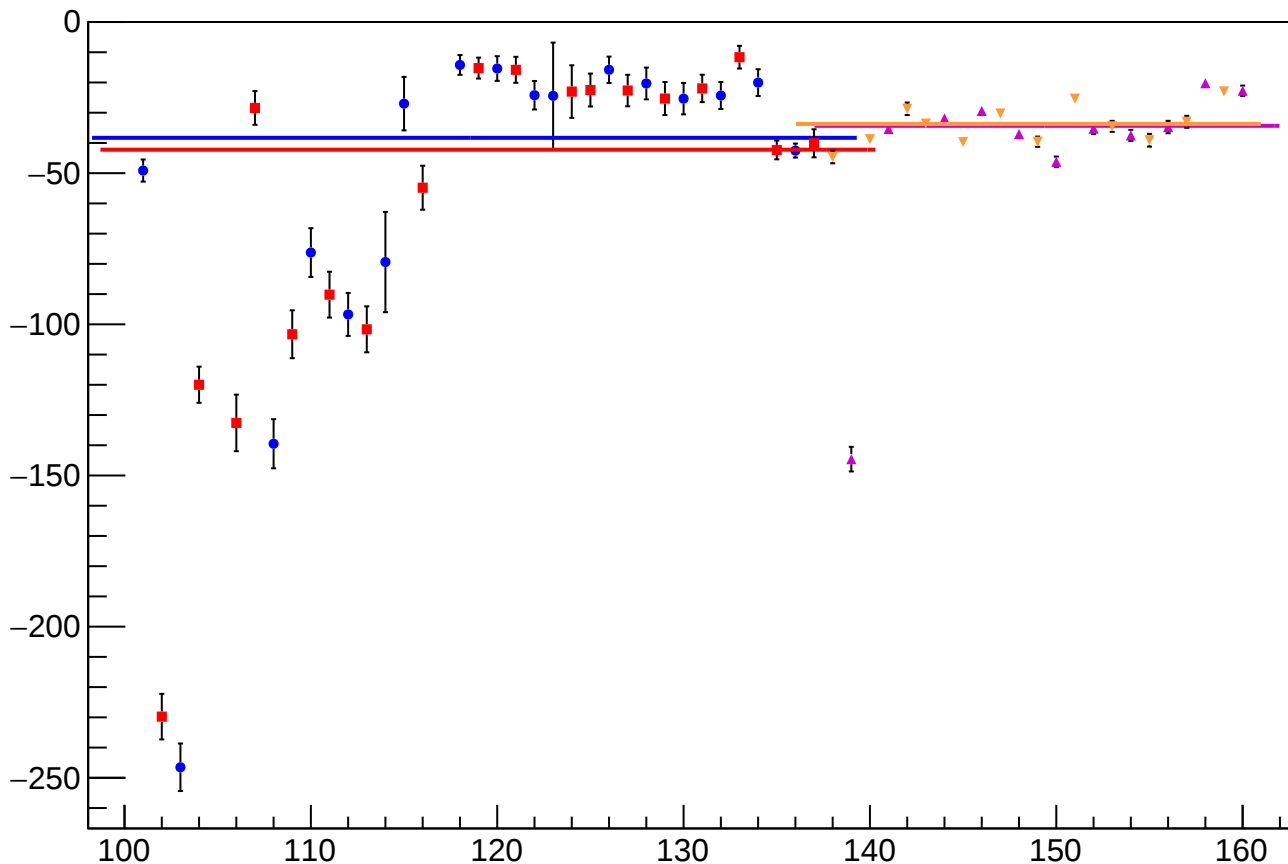
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -40.584+/-0.721  $\chi^2/\text{NDF}$ :338.2/10

Out: -47.193+/-0.708  $\chi^2/\text{NDF}$ :263.1/11

All: -43.950+/-0.505  $\chi^2/\text{NDF}$ : 644.0/22

reg\_asym\_sam2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-38.304 \pm 1.138$   $\chi^2/\text{NDF}: 1132.8/16$

Left Out:  $-33.729 \pm 0.495$   $\chi^2/\text{NDF}: 155.9/11$

Right Out:  $-42.231 \pm 1.210$   $\chi^2/\text{NDF}: 1278.1/17$

Left In:  $-34.331 \pm 0.501$   $\chi^2/\text{NDF}: 937.6/10$

Left:  $-34.026 \pm 0.352$   $\chi^2/\text{NDF}: 1094.2/22$

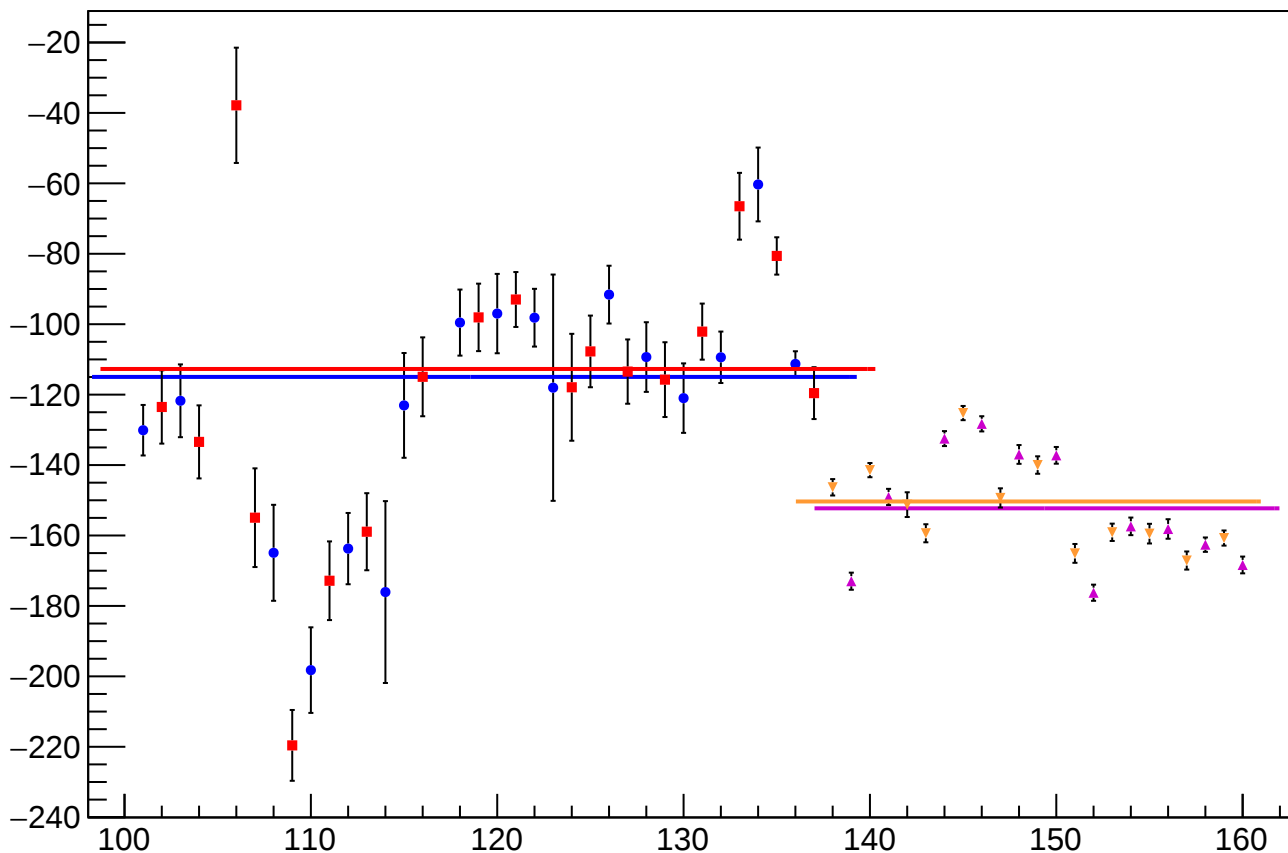
Right:  $-40.148 \pm 0.829$   $\chi^2/\text{NDF}: 2416.5/34$

In:  $-34.976 \pm 0.459$   $\chi^2/\text{NDF}: 2080.6/27$

Out:  $-34.948 \pm 0.458$   $\chi^2/\text{NDF}: 1476.3/29$

All:  $-34.962 \pm 0.324$   $\chi^2/\text{NDF}: 3556.9/57$

reg\_asym\_sam2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-114.969 \pm 2.075$   $\chi^2/\text{NDF}: 141.4/16$

Left Out:  $-150.339 \pm 0.706$   $\chi^2/\text{NDF}: 327.0/11$

Right Out:  $-112.713 \pm 2.210$   $\chi^2/\text{NDF}: 267.1/17$

Left In:  $-152.288 \pm 0.706$   $\chi^2/\text{NDF}: 547.1/10$

Left:  $-151.313 \pm 0.499$   $\chi^2/\text{NDF}: 877.9/22$

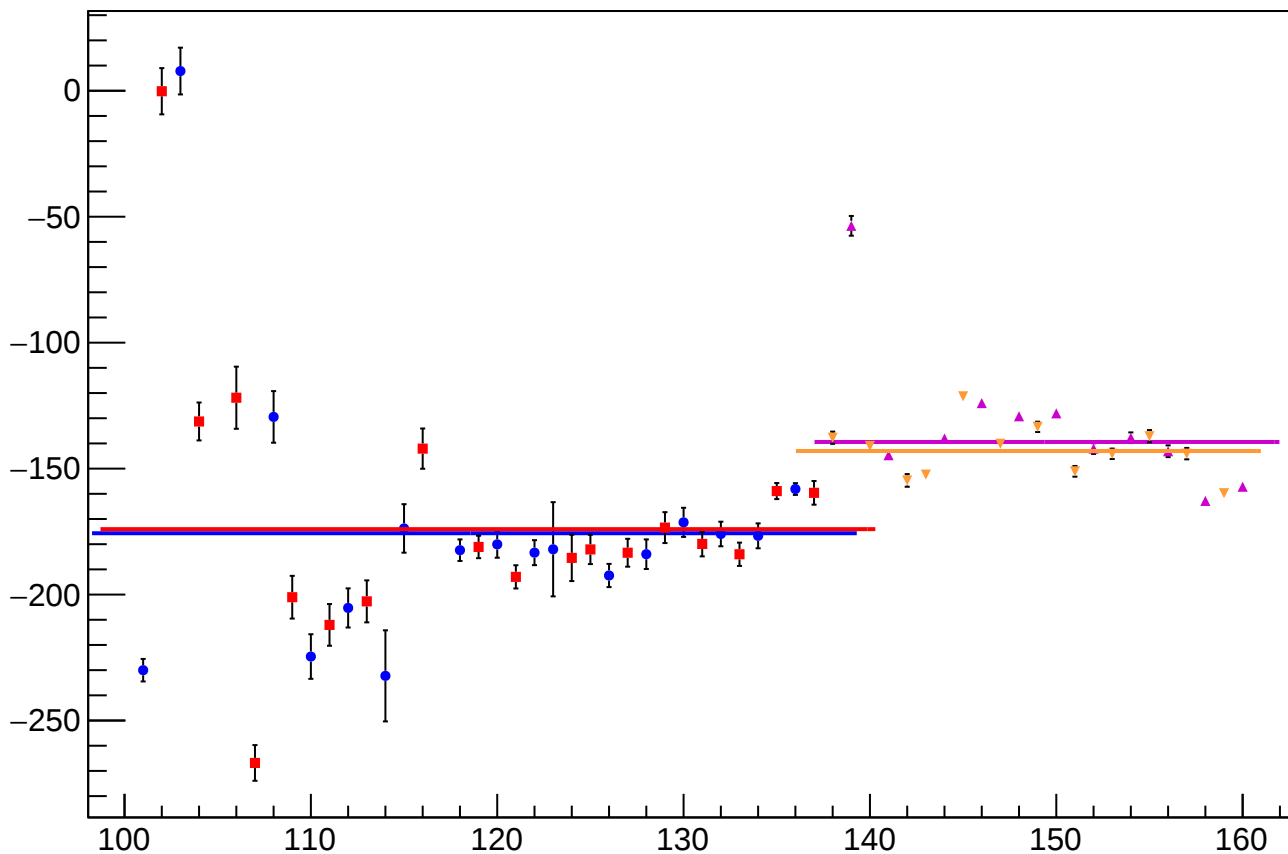
Right:  $-113.912 \pm 1.513$   $\chi^2/\text{NDF}: 409.1/34$

In:  $-148.417 \pm 0.668$   $\chi^2/\text{NDF}: 978.6/27$

Out:  $-146.857 \pm 0.672$   $\chi^2/\text{NDF}: 857.0/29$

All:  $-147.642 \pm 0.474$   $\chi^2/\text{NDF}: 1838.3/57$

reg\_asym\_sam2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-175.651 \pm 1.269$   $\chi^2/\text{NDF}$ : 692.1/16

Left Out:  $-143.014 \pm 0.589$   $\chi^2/\text{NDF}$ : 347.1/11

Right Out:  $-174.024 \pm 1.355$   $\chi^2/\text{NDF}$ : 703.5/17

Left In:  $-139.422 \pm 0.590$   $\chi^2/\text{NDF}$ : 936.9/10

Left:  $-141.222 \pm 0.417$   $\chi^2/\text{NDF}$ : 1302.6/22

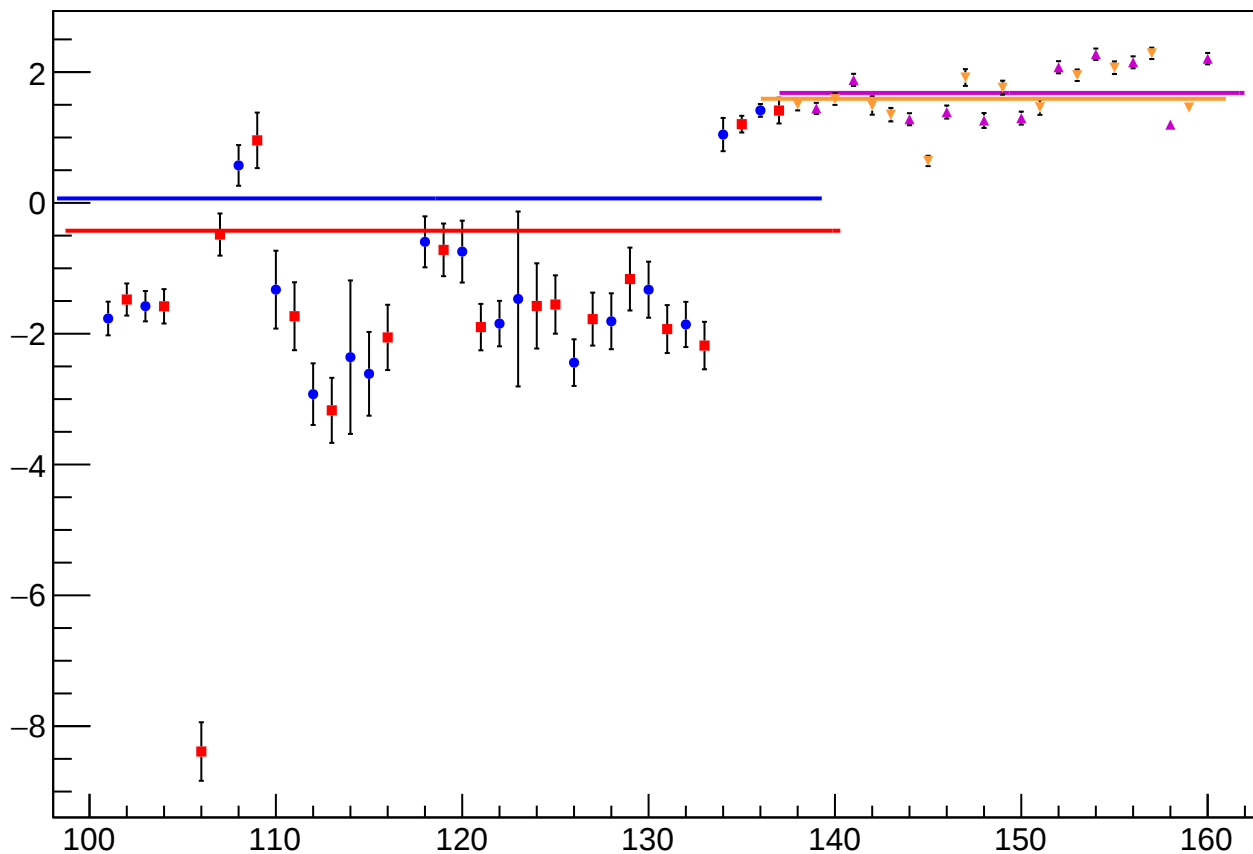
Right:  $-174.891 \pm 0.926$   $\chi^2/\text{NDF}$ : 1396.3/34

In:  $-145.869 \pm 0.535$   $\chi^2/\text{NDF}$ : 2298.9/27

Out:  $-147.944 \pm 0.540$   $\chi^2/\text{NDF}$ : 1491.0/29

All:  $-146.897 \pm 0.380$   $\chi^2/\text{NDF}$ : 3797.3/57

reg\_asym\_sam2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.068 $\pm$ 0.067  $\chi^2$ /NDF: 525.9/16

Left Out: 1.592 $\pm$ 0.028  $\chi^2$ /NDF:269.3/11

Right Out: -0.425 $\pm$ 0.071  $\chi^2$ /NDF: 742.9/17

Left In: 1.682 $\pm$ 0.027  $\chi^2$ /NDF:237.8/10

Left: 1.637 $\pm$ 0.019  $\chi^2$ /NDF: 512.4/22

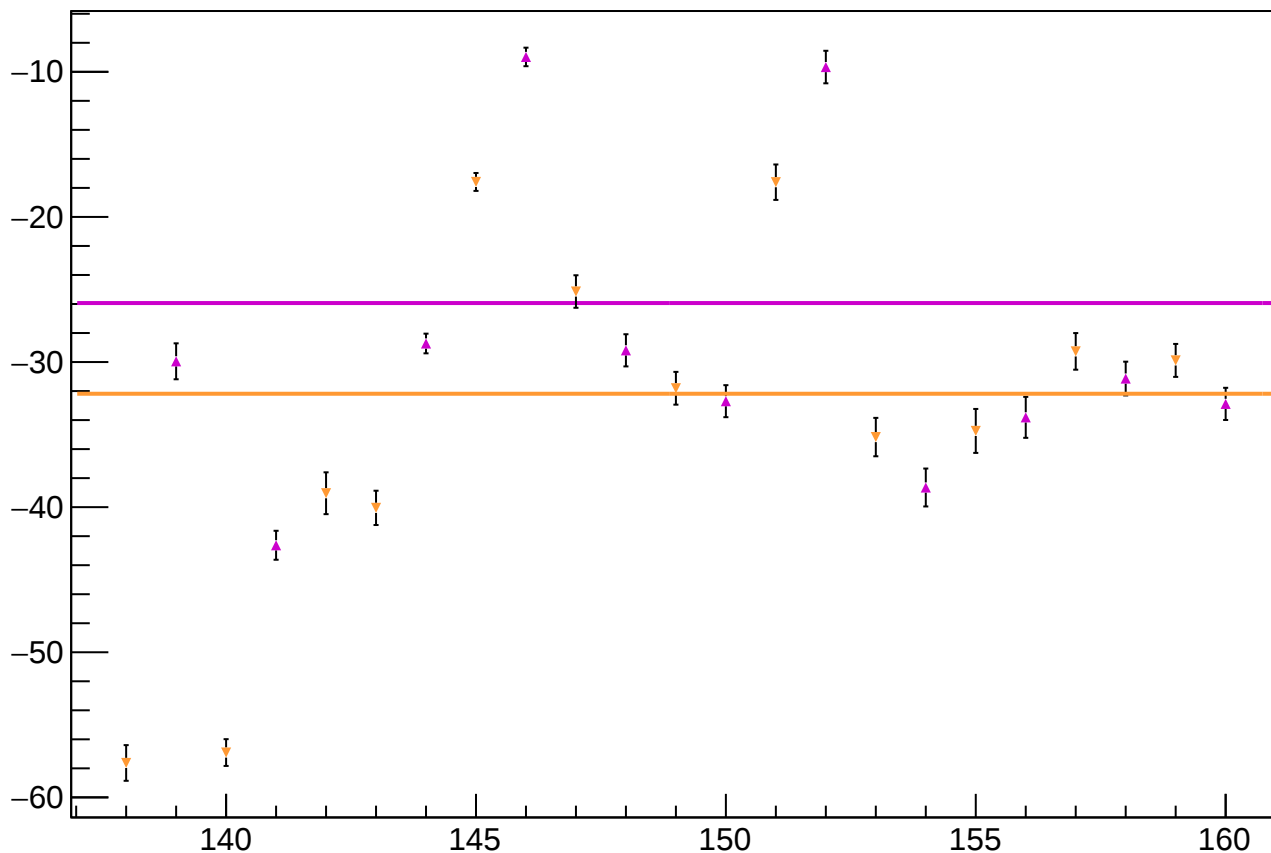
Right: -0.163 $\pm$ 0.049  $\chi^2$ /NDF: 1294.2/34

In: 1.450 $\pm$ 0.025  $\chi^2$ /NDF:1260.3/27

Out: 1.329 $\pm$ 0.026  $\chi^2$ /NDF:1709.4/29

All: 1.390 $\pm$ 0.018  $\chi^2$ /NDF: 2981.0/57

reg\_asym\_sam3\_diff\_bpm1X\_slope vs Slug, Sign Corrected

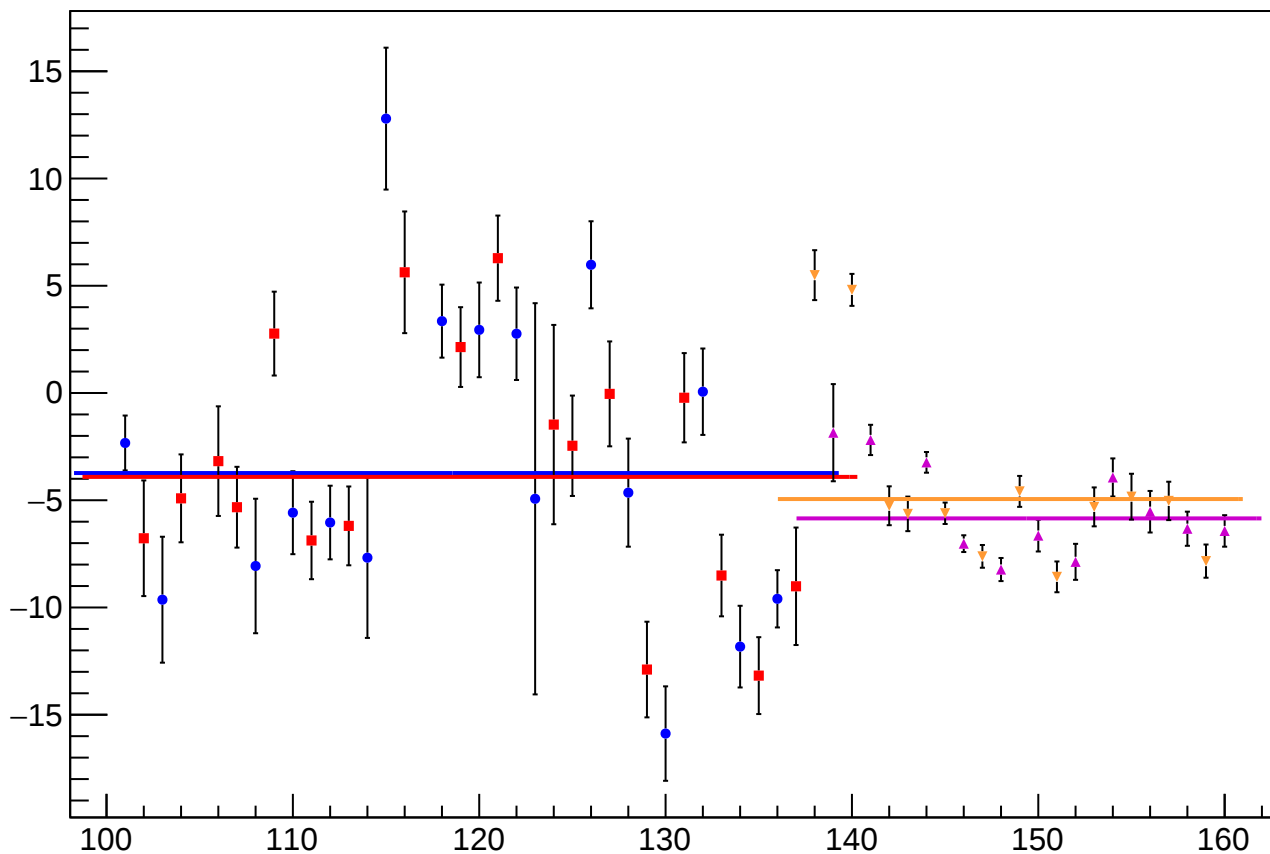


Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-32.185 \pm 0.311$   $\chi^2/\text{NDF}: 1972.4/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-25.935 \pm 0.297$   $\chi^2/\text{NDF}: 1454.3/10$

Left:  $-28.911 \pm 0.215$   $\chi^2/\text{NDF}: 3637.9/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-25.935 \pm 0.297$   $\chi^2/\text{NDF}: 1454.3/10$   
 Out:  $-32.185 \pm 0.311$   $\chi^2/\text{NDF}: 1972.4/11$

All:  $-28.911 \pm 0.215$   $\chi^2/\text{NDF}: 3637.9/22$

reg\_asym\_sam3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.732 \pm 0.496$   $\chi^2/\text{NDF}$ : 165.8/16

Left Out:  $-4.944 \pm 0.214$   $\chi^2/\text{NDF}$ : 319.6/11

Right Out:  $-3.912 \pm 0.507$   $\chi^2/\text{NDF}$ : 124.8/17

Left In:  $-5.847 \pm 0.198$   $\chi^2/\text{NDF}$ : 100.7/10

Left:  $-5.431 \pm 0.145$   $\chi^2/\text{NDF}$ : 429.8/22

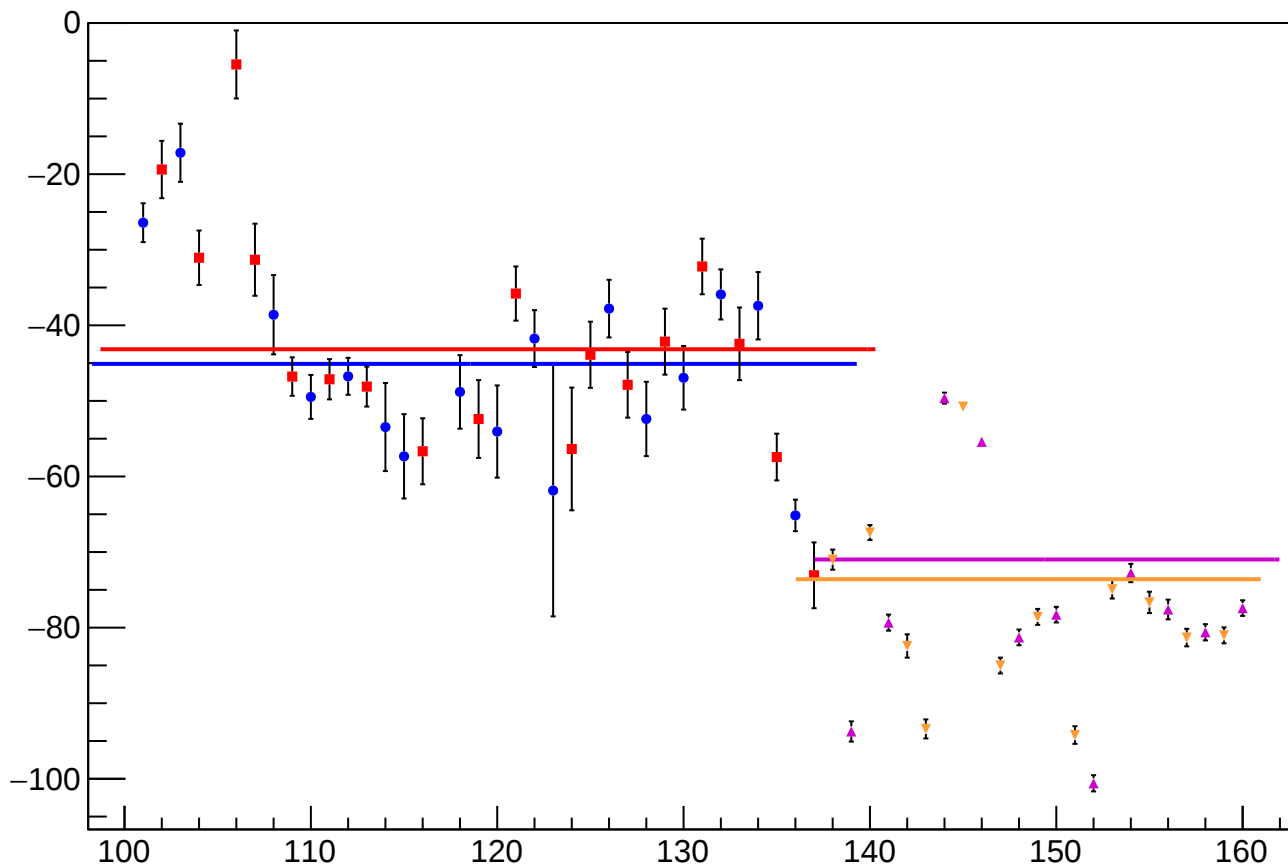
Right:  $-3.820 \pm 0.354$   $\chi^2/\text{NDF}$ : 290.7/34

In:  $-5.556 \pm 0.184$   $\chi^2/\text{NDF}$ : 282.2/27

Out:  $-4.787 \pm 0.198$   $\chi^2/\text{NDF}$ : 447.9/29

All:  $-5.199 \pm 0.135$   $\chi^2/\text{NDF}$ : 738.2/57

reg\_asym\_sam3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-45.102 \pm 0.883$   $\chi^2/\text{NDF}$ : 230.6/16

Left Out:  $-73.592 \pm 0.311$   $\chi^2/\text{NDF}$ : 2090.3/11

Right Out:  $-43.167 \pm 0.879$   $\chi^2/\text{NDF}$ : 232.9/17

Left In:  $-70.985 \pm 0.291$   $\chi^2/\text{NDF}$ : 2915.2/10

Left:  $-72.202 \pm 0.213$   $\chi^2/\text{NDF}$ : 5043.0/22

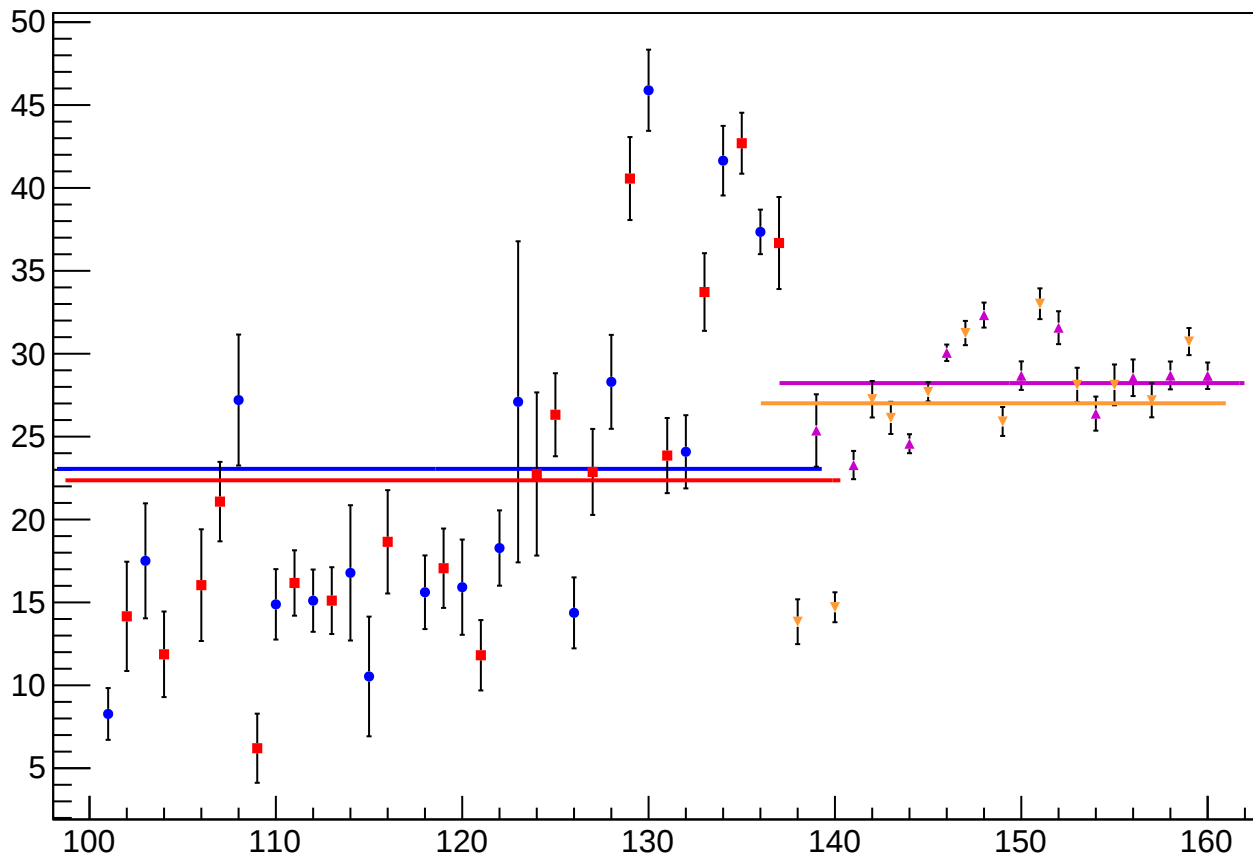
Right:  $-44.131 \pm 0.623$   $\chi^2/\text{NDF}$ : 465.9/34

In:  $-68.446 \pm 0.276$   $\chi^2/\text{NDF}$ : 3921.5/27

Out:  $-70.205 \pm 0.293$   $\chi^2/\text{NDF}$ : 3387.4/29

All:  $-69.273 \pm 0.201$   $\chi^2/\text{NDF}$ : 7328.0/57

reg\_asym\_sam3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.055 $\pm$ 0.557  $\chi^2$ /NDF: 461.1/16

Left Out: 27.011 $\pm$ 0.258  $\chi^2$ /NDF:382.8/11

Right Out: 22.365 $\pm$ 0.573  $\chi^2$ /NDF: 368.8/17

Left In: 28.229 $\pm$ 0.238  $\chi^2$ /NDF:134.9/10

Left: 27.667 $\pm$ 0.175  $\chi^2$ /NDF: 529.7/22

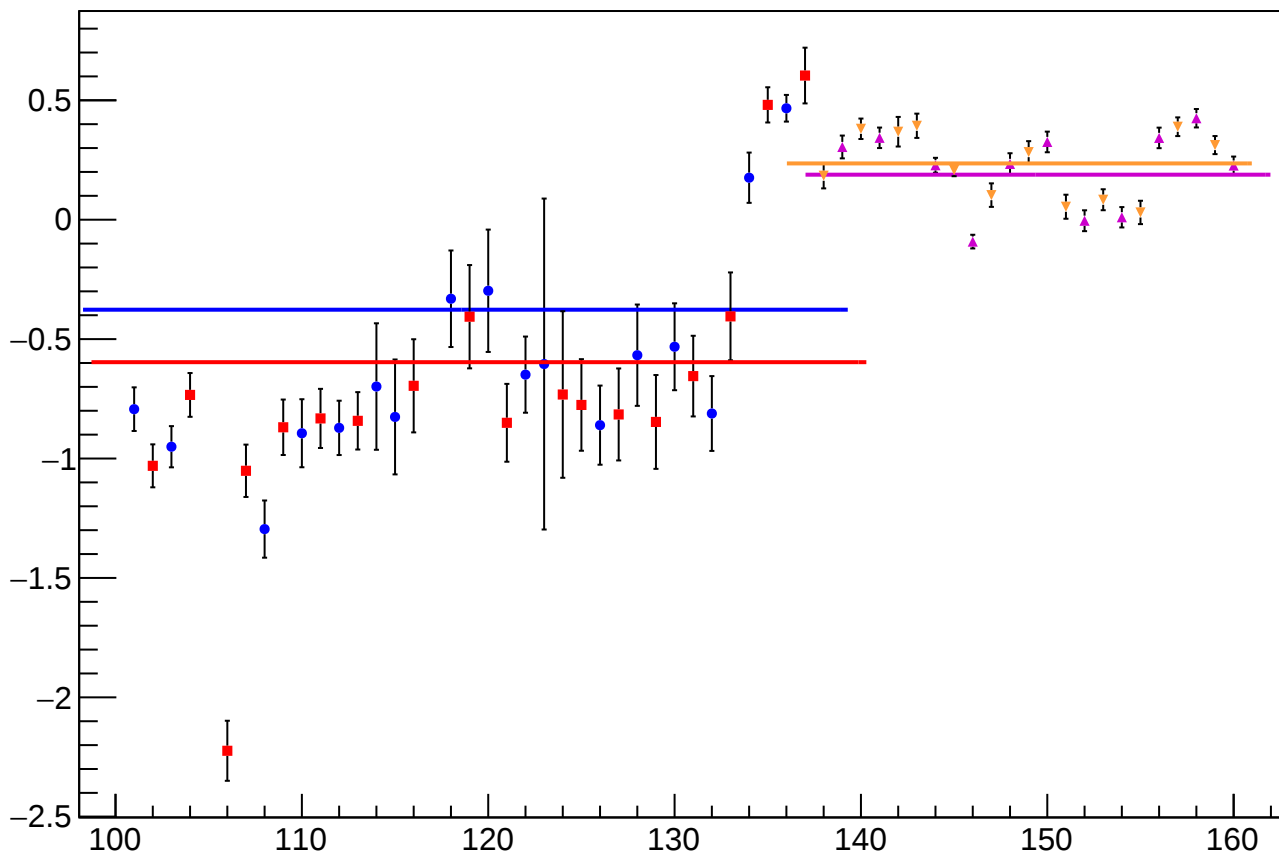
Right: 22.720 $\pm$ 0.399  $\chi^2$ /NDF: 830.6/34

In: 27.428 $\pm$ 0.219  $\chi^2$ /NDF:668.9/27

Out: 26.229 $\pm$ 0.235  $\chi^2$ /NDF:806.3/29

All: 26.870 $\pm$ 0.160  $\chi^2$ /NDF: 1489.1/57

reg\_asym\_sam3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.377 \pm 0.030$   $\chi^2/\text{NDF}: 437.4/16$

Left Out:  $0.236 \pm 0.012$   $\chi^2/\text{NDF}: 98.2/11$

Right Out:  $-0.597 \pm 0.030$   $\chi^2/\text{NDF}: 551.3/17$

Left In:  $0.188 \pm 0.012$   $\chi^2/\text{NDF}: 215.4/10$

Left:  $0.211 \pm 0.008$   $\chi^2/\text{NDF}: 321.4/22$

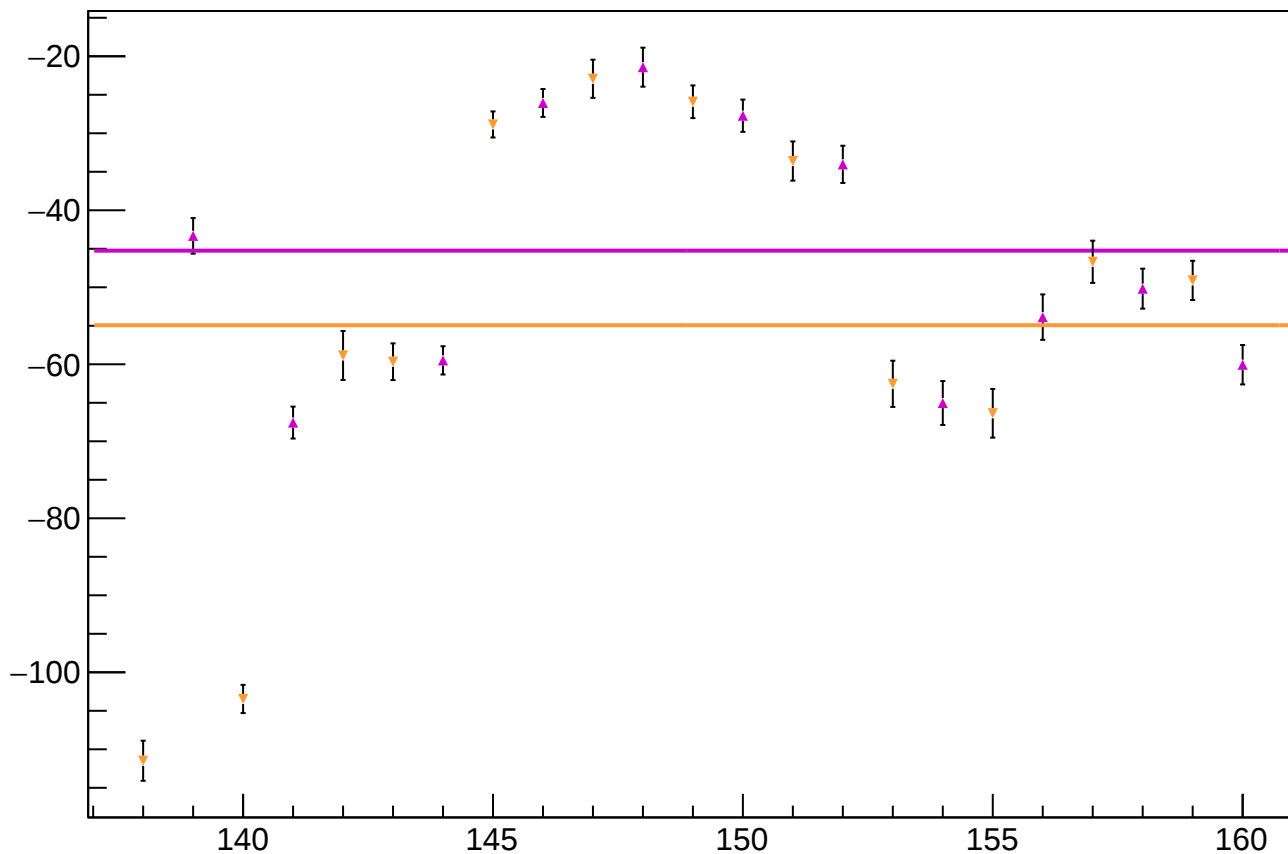
Right:  $-0.486 \pm 0.021$   $\chi^2/\text{NDF}: 1015.2/34$

In:  $0.114 \pm 0.011$   $\chi^2/\text{NDF}: 959.0/27$

Out:  $0.118 \pm 0.011$   $\chi^2/\text{NDF}: 1299.4/29$

All:  $0.116 \pm 0.008$   $\chi^2/\text{NDF}: 2258.5/57$

reg\_asym\_sam4\_diff\_bpm1X\_slope vs Slug, Sign Corrected



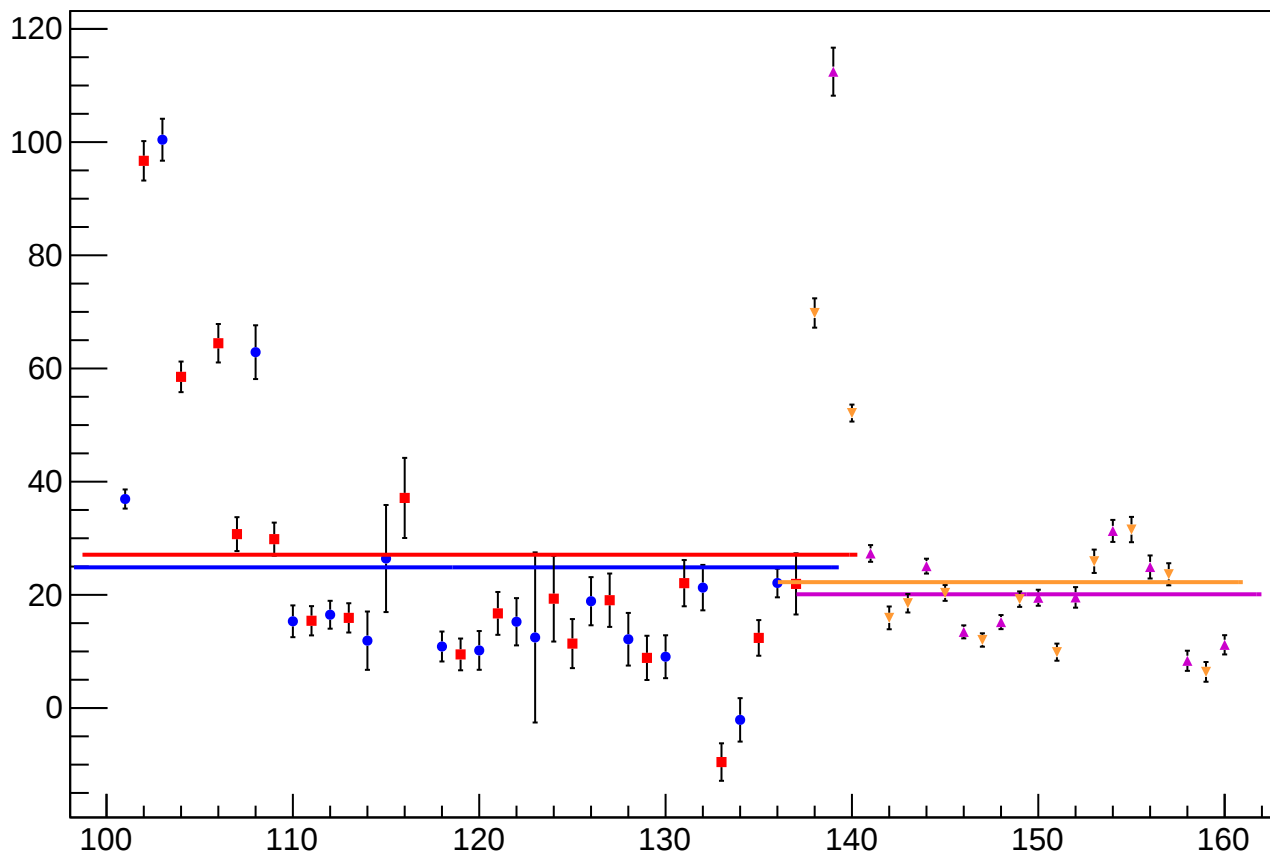
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -54.927+/-0.689  $\chi^2/\text{NDF}$ :1872.6/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -45.243+/-0.688  $\chi^2/\text{NDF}$ :562.9/10

Left: -50.073+/-0.487  $\chi^2/\text{NDF}$ : 2534.4/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -45.243+/-0.688  $\chi^2/\text{NDF}$ :562.9/10  
 Out: -54.927+/-0.689  $\chi^2/\text{NDF}$ :1872.6/11

All: -50.073+/-0.487  $\chi^2/\text{NDF}$ : 2534.4/22

reg\_asym\_sam4\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $24.863 \pm 0.802$   $\chi^2/\text{NDF}$ : 691.0/16

Left Out:  $22.246 \pm 0.475$   $\chi^2/\text{NDF}$ : 1000.4/11

Right Out:  $27.093 \pm 0.812$   $\chi^2/\text{NDF}$ : 930.9/17

Left In:  $20.100 \pm 0.473$   $\chi^2/\text{NDF}$ : 671.0/10

Left:  $21.171 \pm 0.335$   $\chi^2/\text{NDF}$ : 1681.7/22

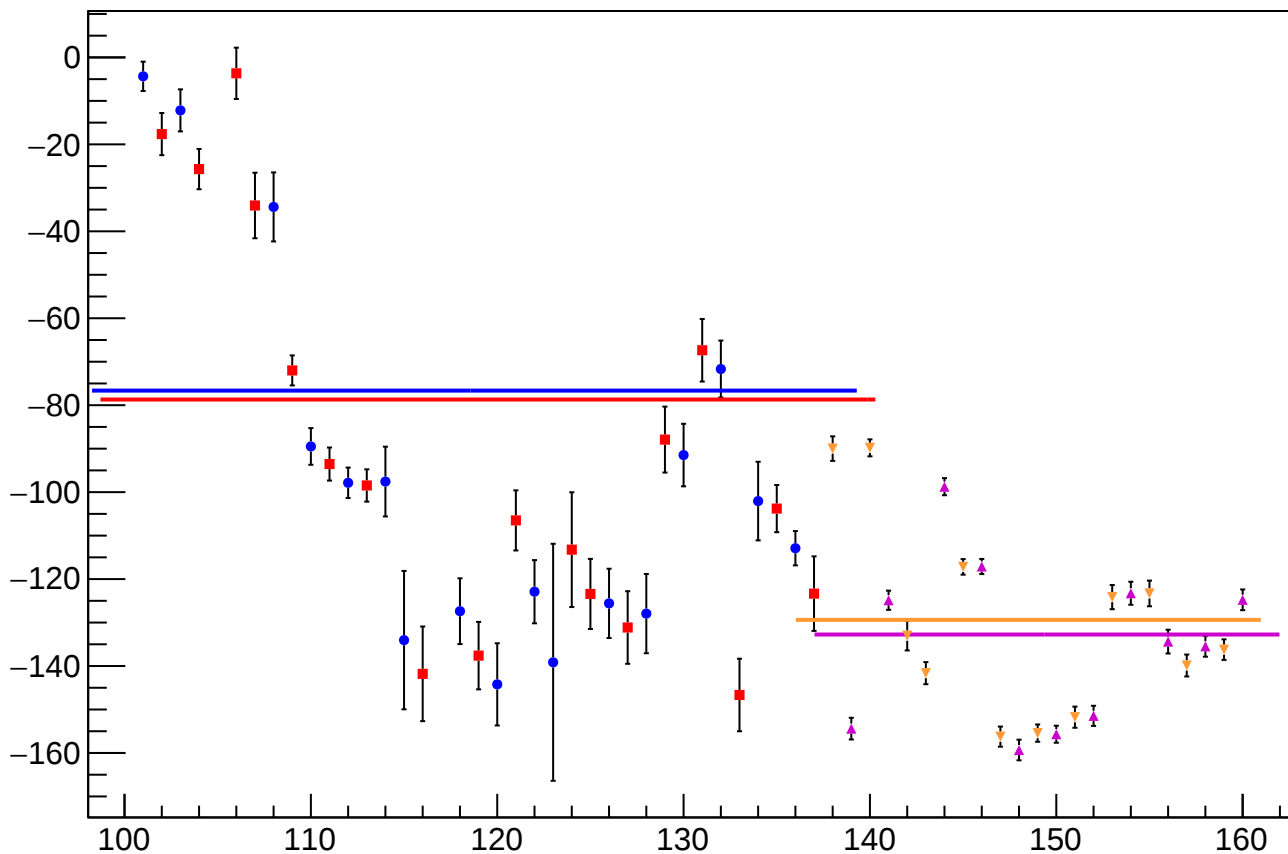
Right:  $25.964 \pm 0.570$   $\chi^2/\text{NDF}$ : 1625.8/34

In:  $21.331 \pm 0.408$   $\chi^2/\text{NDF}$ : 1388.2/27

Out:  $23.481 \pm 0.410$   $\chi^2/\text{NDF}$ : 1957.9/29

All:  $22.401 \pm 0.289$   $\chi^2/\text{NDF}$ : 3360.0/57

reg\_asym\_sam4\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-76.641 \pm 1.415$   $\chi^2/\text{NDF}: 1040.7/16$

Left Out:  $-129.380 \pm 0.685$   $\chi^2/\text{NDF}: 1101.3/11$

Right Out:  $-78.695 \pm 1.360$   $\chi^2/\text{NDF}: 836.5/17$

Left In:  $-132.753 \pm 0.673$   $\chi^2/\text{NDF}: 821.2/10$

Left:  $-131.096 \pm 0.480$   $\chi^2/\text{NDF}: 1934.8/22$

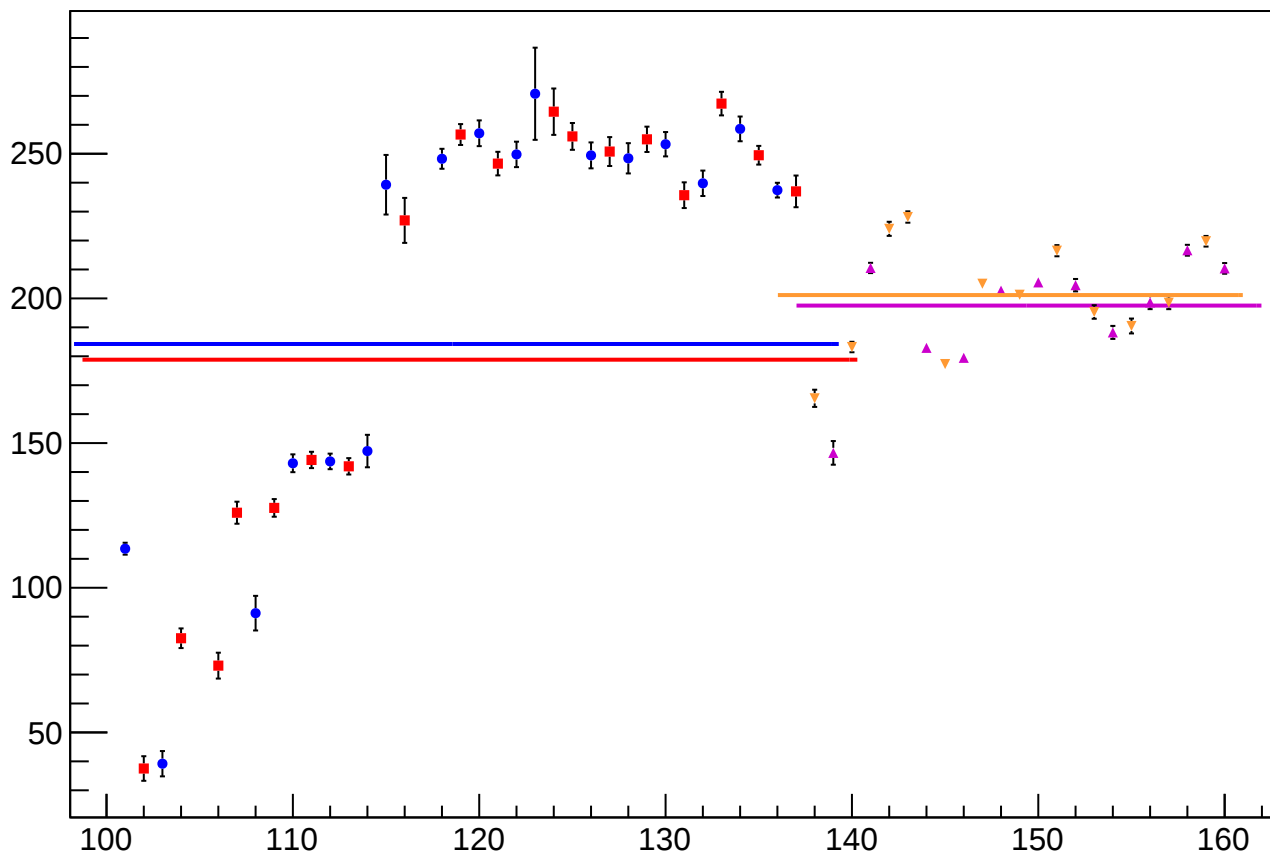
Right:  $-77.709 \pm 0.980$   $\chi^2/\text{NDF}: 1878.3/34$

In:  $-122.395 \pm 0.608$   $\chi^2/\text{NDF}: 3144.5/27$

Out:  $-119.118 \pm 0.612$   $\chi^2/\text{NDF}: 3045.6/29$

All:  $-120.767 \pm 0.431$   $\chi^2/\text{NDF}: 6204.5/57$

reg\_asym\_sam4\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 184.246 $\pm$ 0.915  $\chi^2$ /NDF: 5388.6/16

Left Out: 201.158 $\pm$ 0.570  $\chi^2$ /NDF: 935.7/11

Right Out: 178.822 $\pm$ 0.926  $\chi^2$ /NDF: 6171.0/17

Left In: 197.523 $\pm$ 0.562  $\chi^2$ /NDF: 668.7/10

Left: 199.316 $\pm$ 0.400  $\chi^2$ /NDF: 1625.0/22

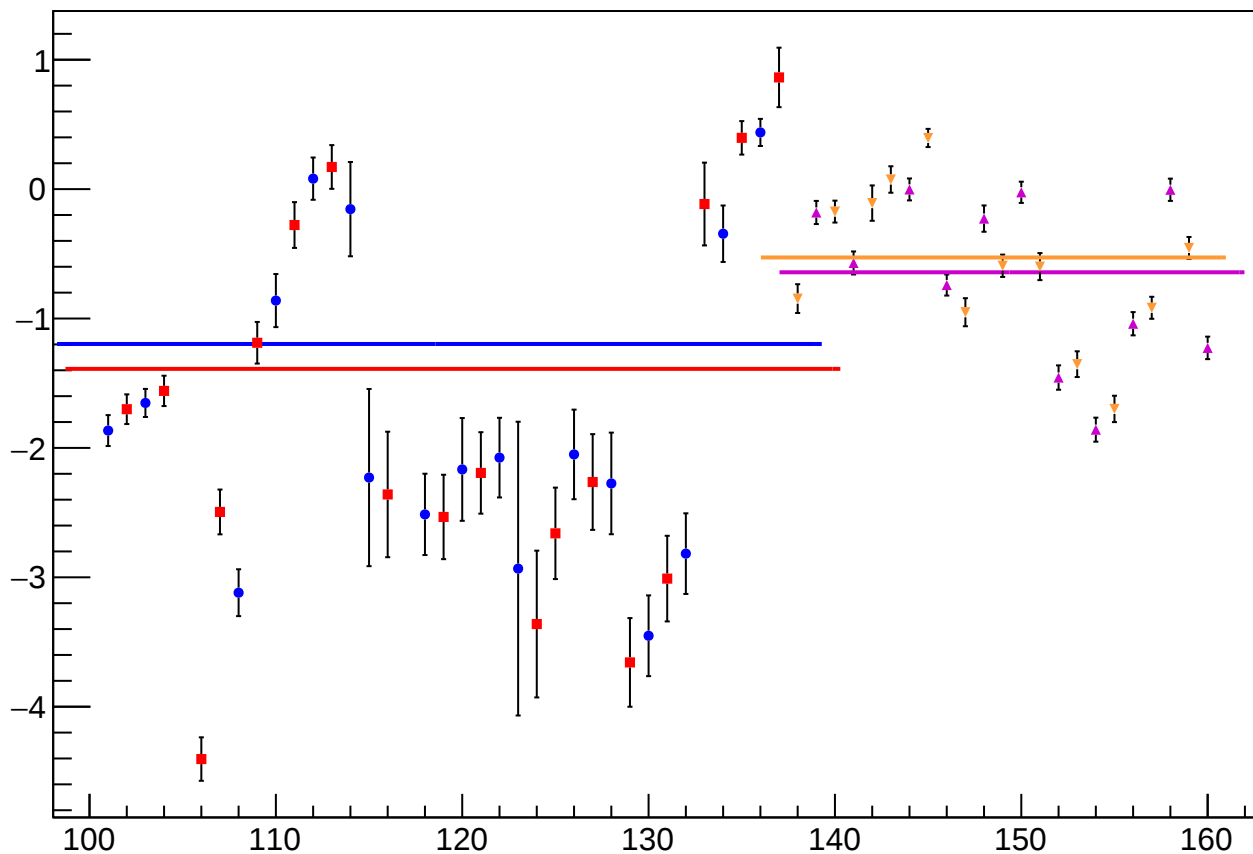
Right: 181.565 $\pm$ 0.651  $\chi^2$ /NDF: 11576.9/34

In: 193.885 $\pm$ 0.479  $\chi^2$ /NDF: 6210.0/27

Out: 195.018 $\pm$ 0.485  $\chi^2$ /NDF: 7528.8/29

All: 194.444 $\pm$ 0.341  $\chi^2$ /NDF: 13741.6/57

reg\_asym\_sam4\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-1.197 \pm 0.048$   $\chi^2/\text{NDF}$ : 621.5/16

Left Out:  $-0.528 \pm 0.027$   $\chi^2/\text{NDF}$ : 480.7/11

Right Out:  $-1.389 \pm 0.046$   $\chi^2/\text{NDF}$ : 922.2/17

Left In:  $-0.643 \pm 0.027$   $\chi^2/\text{NDF}$ : 525.2/10

Left:  $-0.586 \pm 0.019$   $\chi^2/\text{NDF}$ : 1014.9/22

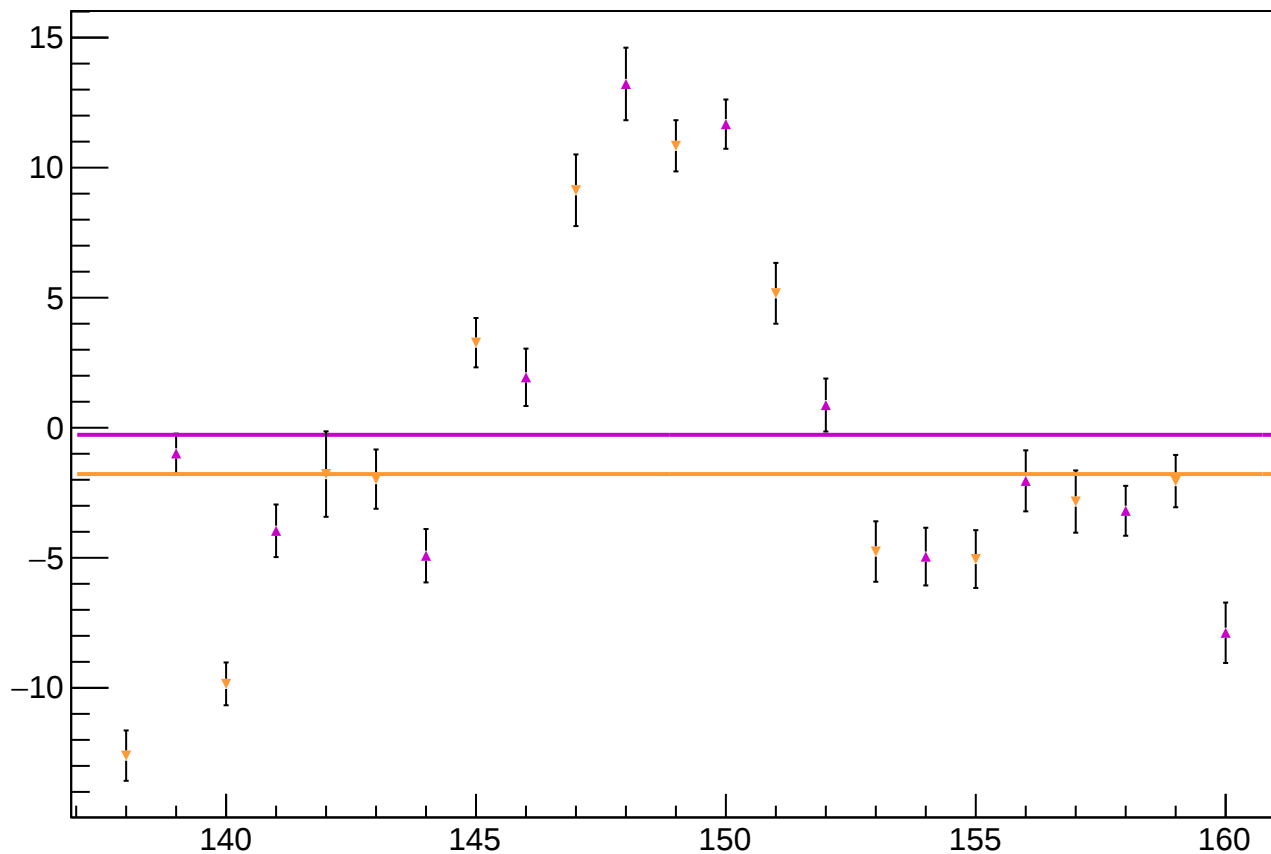
Right:  $-1.297 \pm 0.033$   $\chi^2/\text{NDF}$ : 1552.0/34

In:  $-0.773 \pm 0.023$   $\chi^2/\text{NDF}$ : 1248.1/27

Out:  $-0.750 \pm 0.023$   $\chi^2/\text{NDF}$ : 1662.2/29

All:  $-0.761 \pm 0.017$   $\chi^2/\text{NDF}$ : 2910.7/57

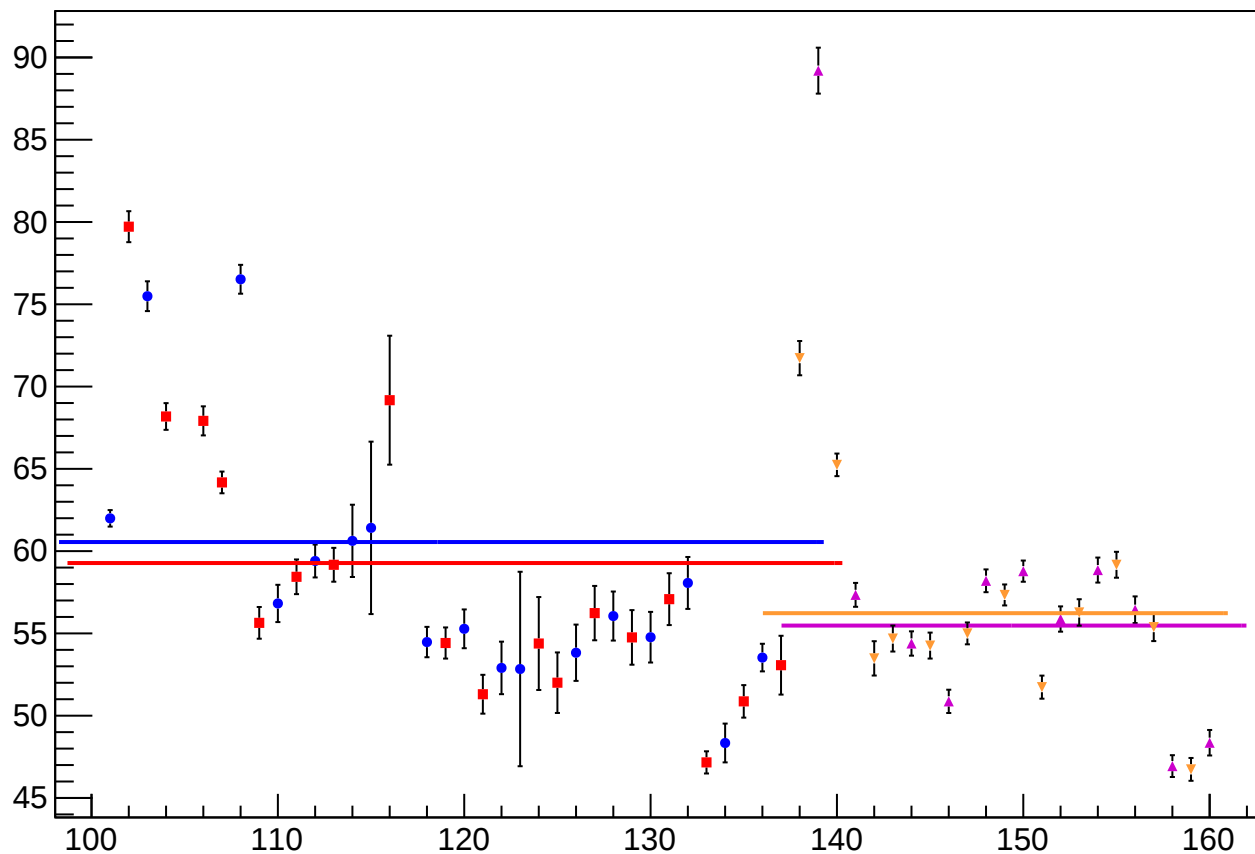
reg\_asym\_sam5\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.781+/-0.311  $\chi^2/\text{NDF}$ :528.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.272+/-0.309  $\chi^2/\text{NDF}$ :364.8/10

Left: -1.022+/-0.219  $\chi^2/\text{NDF}$ : 904.9/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.272+/-0.309  $\chi^2/\text{NDF}$ :364.8/10  
 Out: -1.781+/-0.311  $\chi^2/\text{NDF}$ :528.2/11  
 All: -1.022+/-0.219  $\chi^2/\text{NDF}$ : 904.9/22

reg\_asym\_sam5\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 60.552 $\pm$ 0.262  $\chi^2$ /NDF: 931.0/16

Left Out: 56.229 $\pm$ 0.221  $\chi^2$ /NDF: 660.6/11

Right Out: 59.276 $\pm$ 0.249  $\chi^2$ /NDF: 1274.8/17

Left In: 55.476 $\pm$ 0.226  $\chi^2$ /NDF: 948.0/10

Left: 55.861 $\pm$ 0.158  $\chi^2$ /NDF: 1614.3/22

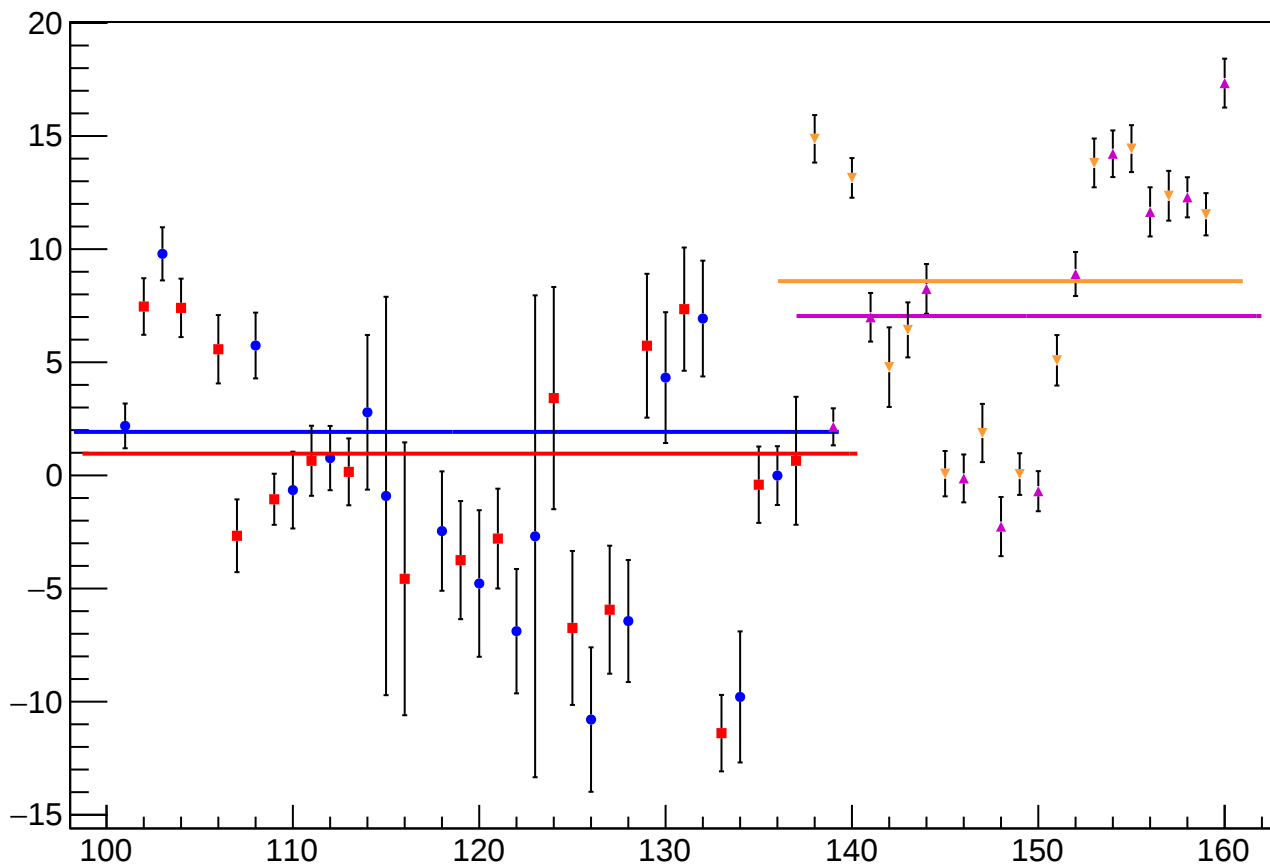
Right: 59.882 $\pm$ 0.180  $\chi^2$ /NDF: 2218.3/34

In: 57.641 $\pm$ 0.171  $\chi^2$ /NDF: 2094.6/27

Out: 57.569 $\pm$ 0.165  $\chi^2$ /NDF: 2019.3/29

All: 57.604 $\pm$ 0.119  $\chi^2$ /NDF: 4114.1/57

reg\_asym\_sam5\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $1.923 \pm 0.458$   $\chi^2/\text{NDF}: 121.1/16$

Left Out:  $8.586 \pm 0.308$   $\chi^2/\text{NDF}: 343.0/11$

Right Out:  $0.962 \pm 0.430$   $\chi^2/\text{NDF}: 150.1/17$

Left In:  $7.045 \pm 0.303$   $\chi^2/\text{NDF}: 405.7/10$

Left:  $7.803 \pm 0.216$   $\chi^2/\text{NDF}: 761.4/22$

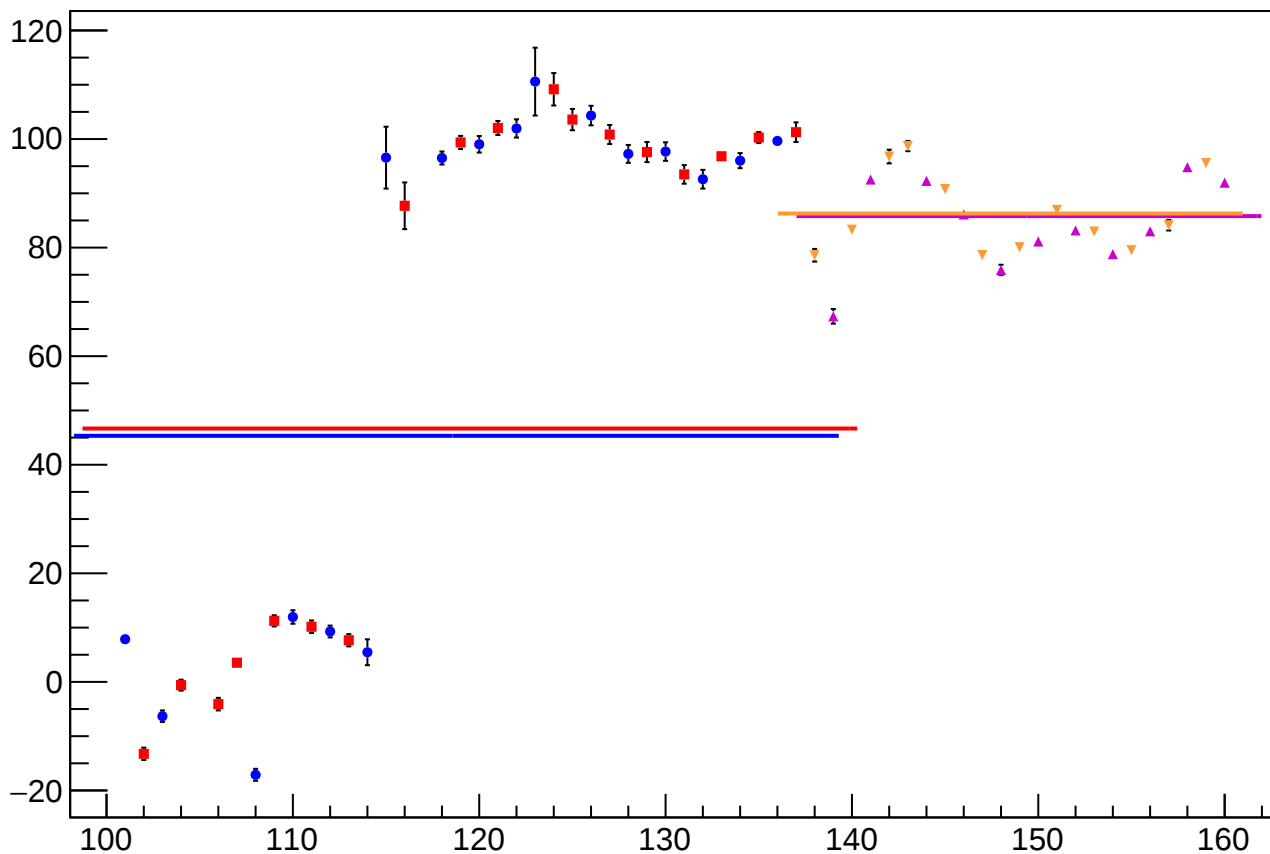
Right:  $1.411 \pm 0.313$   $\chi^2/\text{NDF}: 273.5/34$

In:  $5.488 \pm 0.253$   $\chi^2/\text{NDF}: 613.7/27$

Out:  $6.000 \pm 0.250$   $\chi^2/\text{NDF}: 701.1/29$

All:  $5.747 \pm 0.178$   $\chi^2/\text{NDF}: 1316.9/57$

reg\_asym\_sam5\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 45.331 $\pm$ 0.304  $\chi^2$ /NDF: 25006.9/16

Left Out: 86.280 $\pm$ 0.261  $\chi^2$ /NDF:697.9/11

Right Out: 46.673 $\pm$ 0.291  $\chi^2$ /NDF: 27896.8/17

Left In: 85.801 $\pm$ 0.262  $\chi^2$ /NDF:752.1/10

Left: 86.042 $\pm$ 0.185  $\chi^2$ /NDF: 1451.7/22

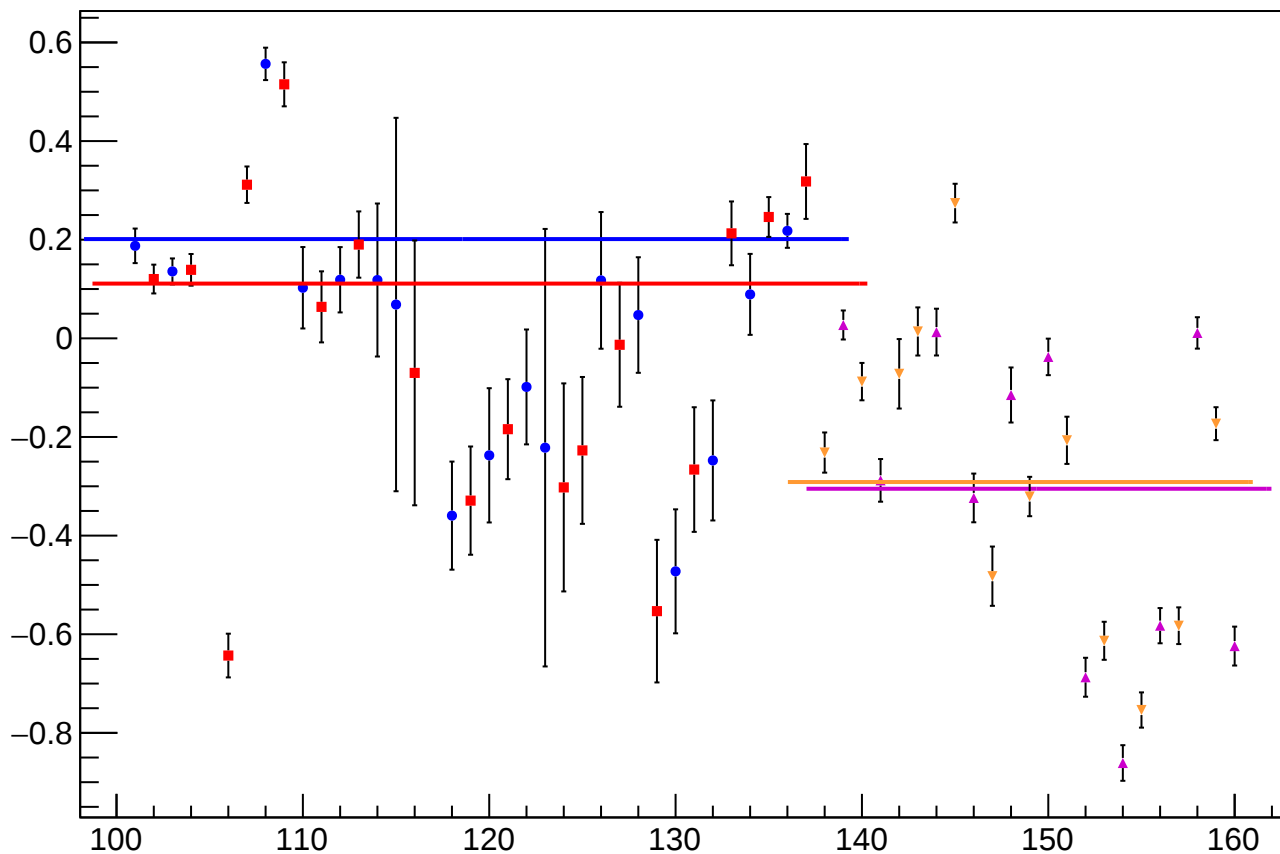
Right: 46.031 $\pm$ 0.210  $\chi^2$ /NDF: 52913.9/34

In: 68.520 $\pm$ 0.198  $\chi^2$ /NDF:35940.8/27

Out: 68.630 $\pm$ 0.194  $\chi^2$ /NDF:38881.1/29

All: 68.576 $\pm$ 0.139  $\chi^2$ /NDF: 74822.1/57

reg\_asym\_sam5\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.201 \pm 0.014$   $\chi^2/\text{NDF}$ : 217.3/16

Left Out:  $-0.291 \pm 0.012$   $\chi^2/\text{NDF}$ : 612.3/11

Right Out:  $0.111 \pm 0.013$   $\chi^2/\text{NDF}$ : 489.6/17

Left In:  $-0.305 \pm 0.012$   $\chi^2/\text{NDF}$ : 791.3/10

Left:  $-0.298 \pm 0.008$   $\chi^2/\text{NDF}$ : 1404.3/22

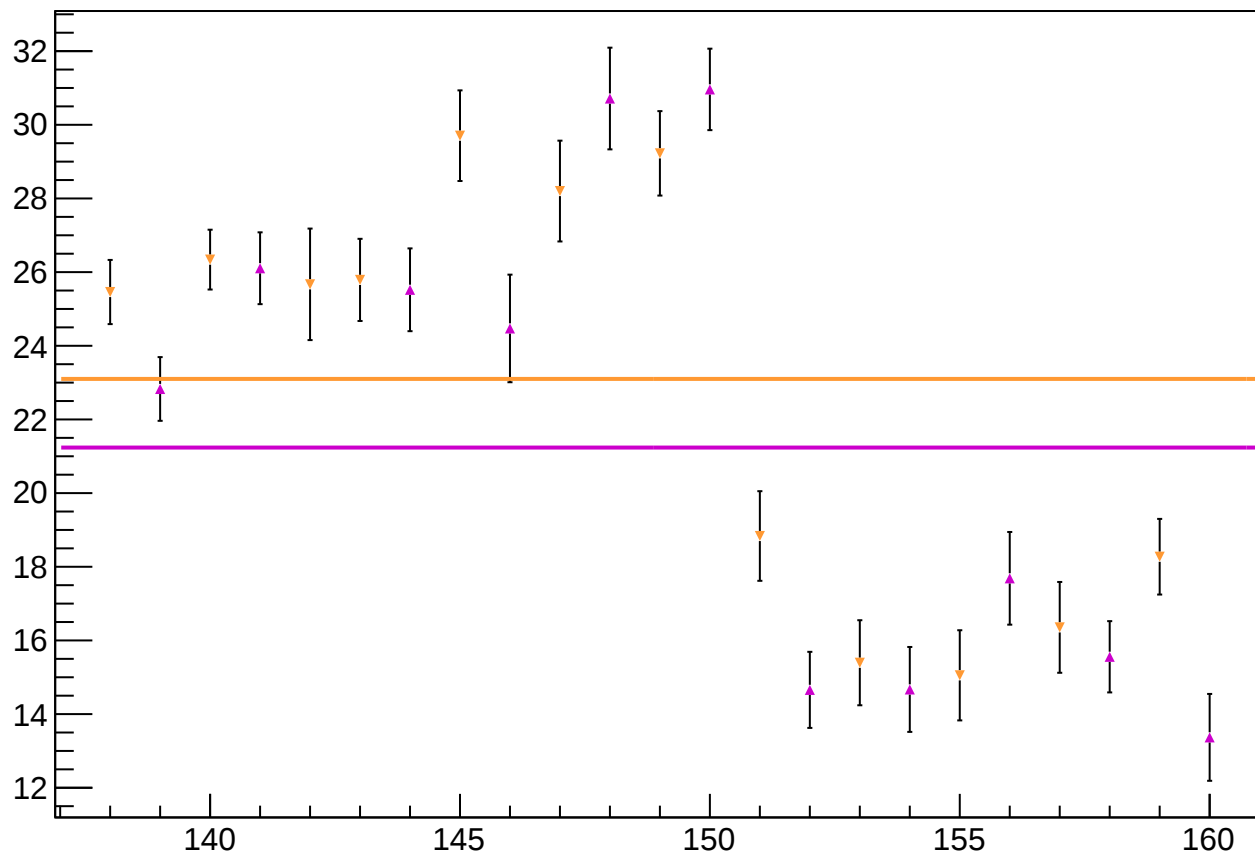
Right:  $0.153 \pm 0.010$   $\chi^2/\text{NDF}$ : 728.8/34

In:  $-0.099 \pm 0.009$   $\chi^2/\text{NDF}$ : 1780.6/27

Out:  $-0.109 \pm 0.009$   $\chi^2/\text{NDF}$ : 1613.1/29

All:  $-0.104 \pm 0.006$   $\chi^2/\text{NDF}$ : 3394.4/57

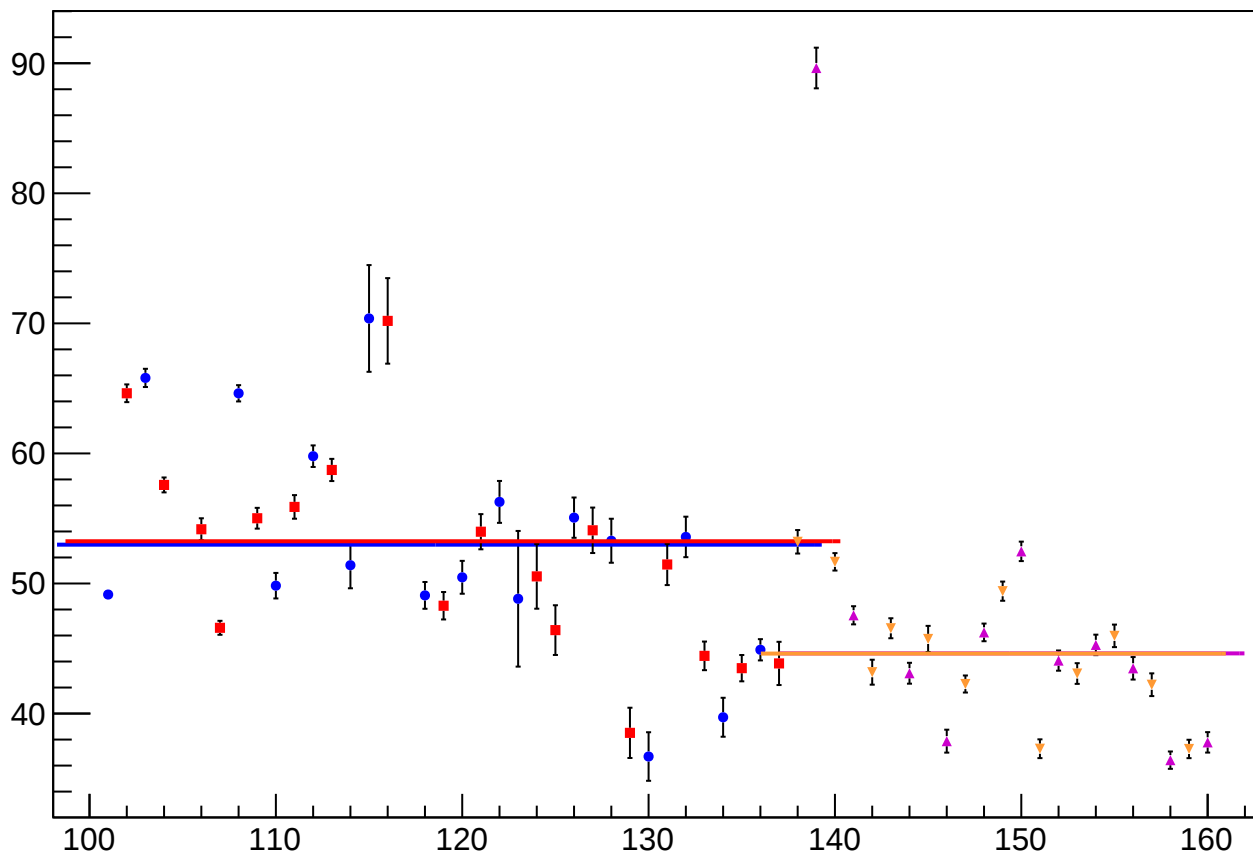
reg\_asym\_sam6\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 23.101+/-0.321  $\chi^2/\text{NDF}$ :255.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 21.237+/-0.331  $\chi^2/\text{NDF}$ :332.2/10

Left: 22.200+/-0.230  $\chi^2/\text{NDF}$ : 603.8/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 21.237+/-0.331  $\chi^2/\text{NDF}$ :332.2/10  
 Out: 23.101+/-0.321  $\chi^2/\text{NDF}$ :255.3/11  
 All: 22.200+/-0.230  $\chi^2/\text{NDF}$ : 603.8/22

reg\_asym\_sam6\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 52.985 $\pm$ 0.210  $\chi^2$ /NDF: 1197.9/16

Left Out: 44.611 $\pm$ 0.226  $\chi^2$ /NDF:490.3/11

Right Out: 53.248 $\pm$ 0.227  $\chi^2$ /NDF: 856.4/17

Left In: 44.626 $\pm$ 0.238  $\chi^2$ /NDF:1254.3/10

Left: 44.618 $\pm$ 0.164  $\chi^2$ /NDF: 1744.5/22

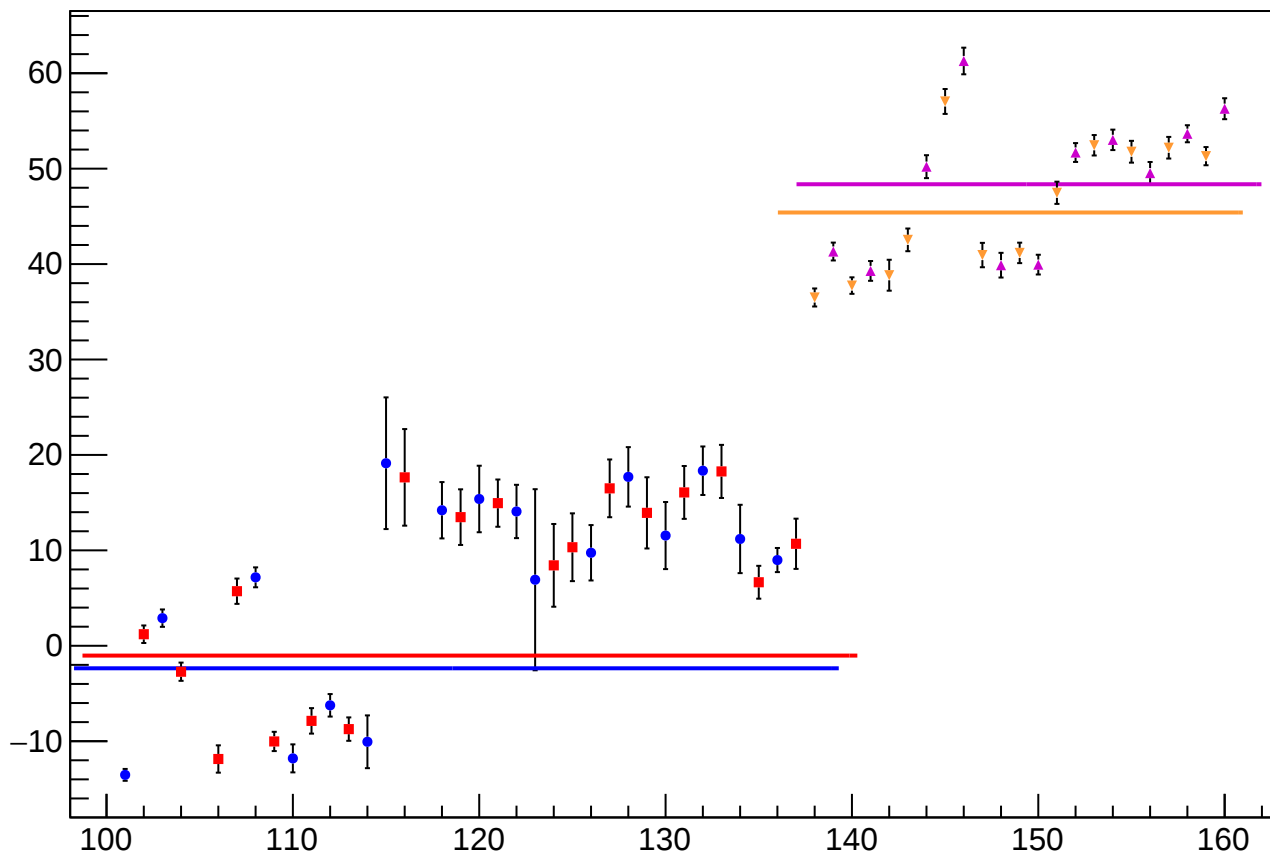
Right: 53.106 $\pm$ 0.154  $\chi^2$ /NDF: 2055.0/34

In: 49.311 $\pm$ 0.157  $\chi^2$ /NDF:3146.5/27

Out: 48.909 $\pm$ 0.160  $\chi^2$ /NDF:2071.4/29

All: 49.114 $\pm$ 0.112  $\chi^2$ /NDF: 5221.1/57

reg\_asym\_sam6\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.360 \pm 0.364$   $\chi^2/\text{NDF}$ : 837.7/16

Left Out:  $45.405 \pm 0.318$   $\chi^2/\text{NDF}$ : 448.5/11

Right Out:  $-1.028 \pm 0.380$   $\chi^2/\text{NDF}$ : 507.8/17

Left In:  $48.365 \pm 0.324$   $\chi^2/\text{NDF}$ : 449.1/10

Left:  $46.859 \pm 0.227$   $\chi^2/\text{NDF}$ : 940.0/22

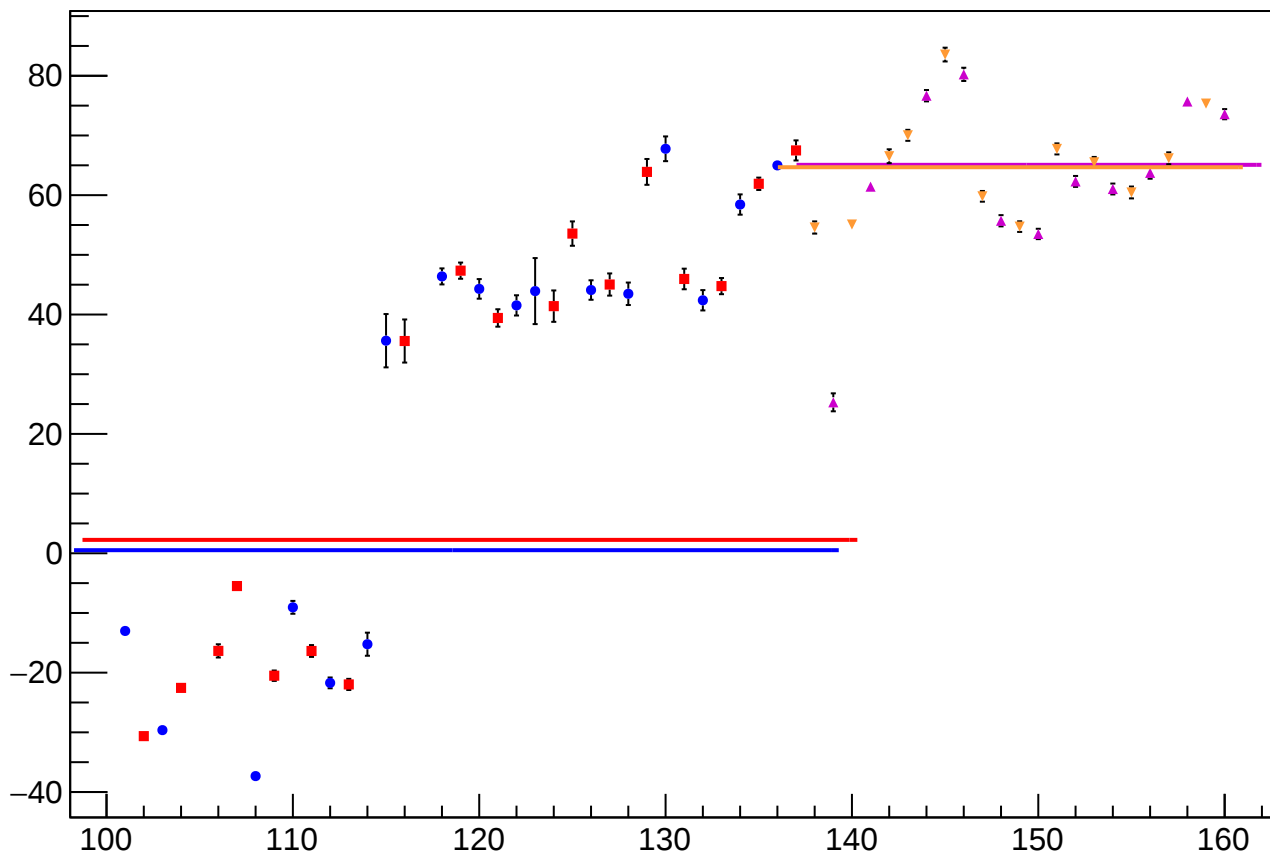
Right:  $-1.723 \pm 0.263$   $\chi^2/\text{NDF}$ : 1351.9/34

In:  $25.948 \pm 0.242$   $\chi^2/\text{NDF}$ : 12116.3/27

Out:  $26.273 \pm 0.244$   $\chi^2/\text{NDF}$ : 9723.5/29

All:  $26.109 \pm 0.172$   $\chi^2/\text{NDF}$ : 21840.7/57

reg\_asym\_sam6\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.518+/-0.247  $\chi^2/\text{NDF}$ : 18386.0/16

Left Out: 64.680+/-0.269  $\chi^2/\text{NDF}$ : 933.7/11

Right Out: 2.246+/-0.267  $\chi^2/\text{NDF}$ : 15377.0/17

Left In: 65.081+/-0.277  $\chi^2/\text{NDF}$ : 1687.8/10

Left: 64.875+/-0.193  $\chi^2/\text{NDF}$ : 2622.6/22

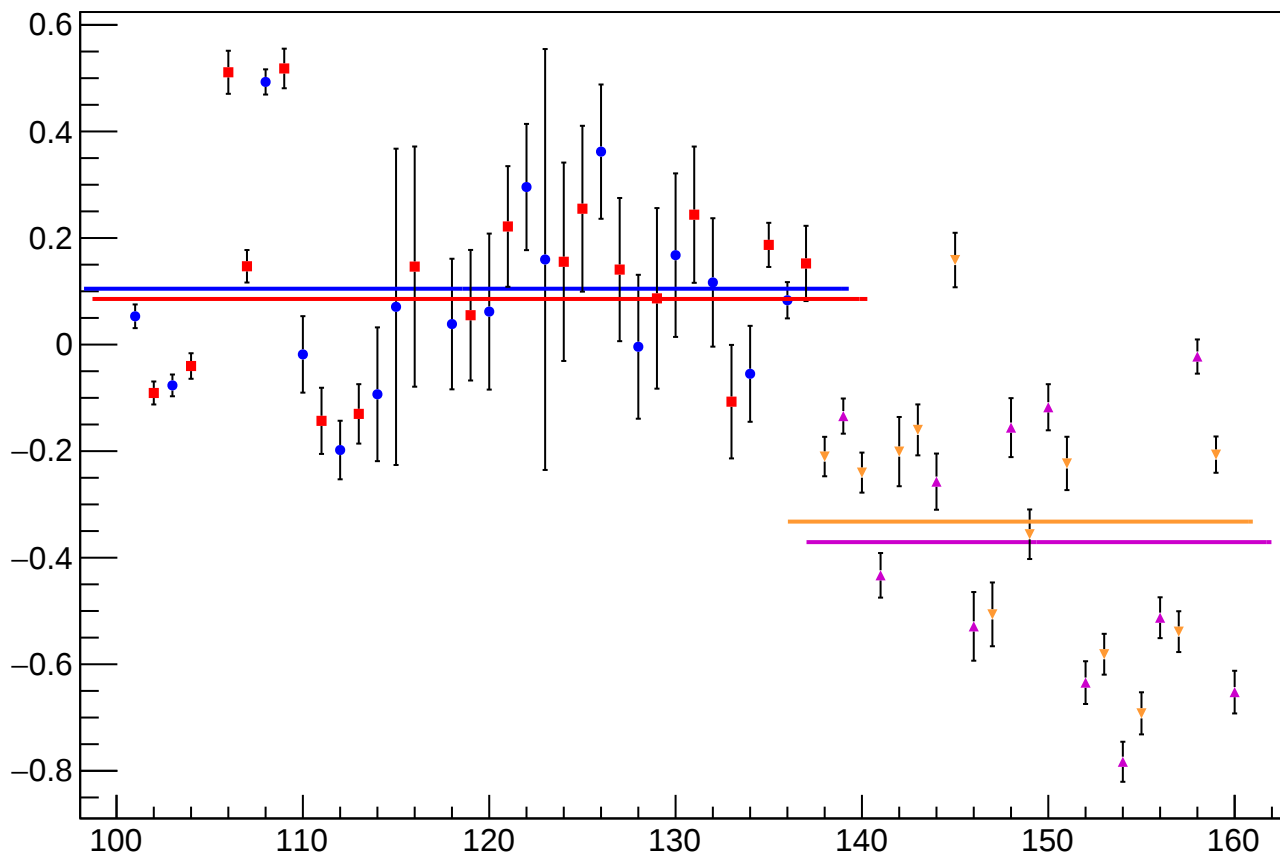
Right: 1.313+/-0.181  $\chi^2/\text{NDF}$ : 33785.6/34

In: 29.148+/-0.184  $\chi^2/\text{NDF}$ : 50389.8/27

Out: 33.327+/-0.189  $\chi^2/\text{NDF}$ : 43448.8/29

All: 31.179+/-0.132  $\chi^2/\text{NDF}$ : 94088.6/57

reg\_asym\_sam6\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.105 \pm 0.011$   $\chi^2/\text{NDF}: 400.8/16$

Left Out:  $-0.332 \pm 0.012$   $\chi^2/\text{NDF}: 307.4/11$

Right Out:  $0.086 \pm 0.011$   $\chi^2/\text{NDF}: 388.3/17$

Left In:  $-0.371 \pm 0.012$   $\chi^2/\text{NDF}: 457.9/10$

Left:  $-0.352 \pm 0.009$   $\chi^2/\text{NDF}: 770.2/22$

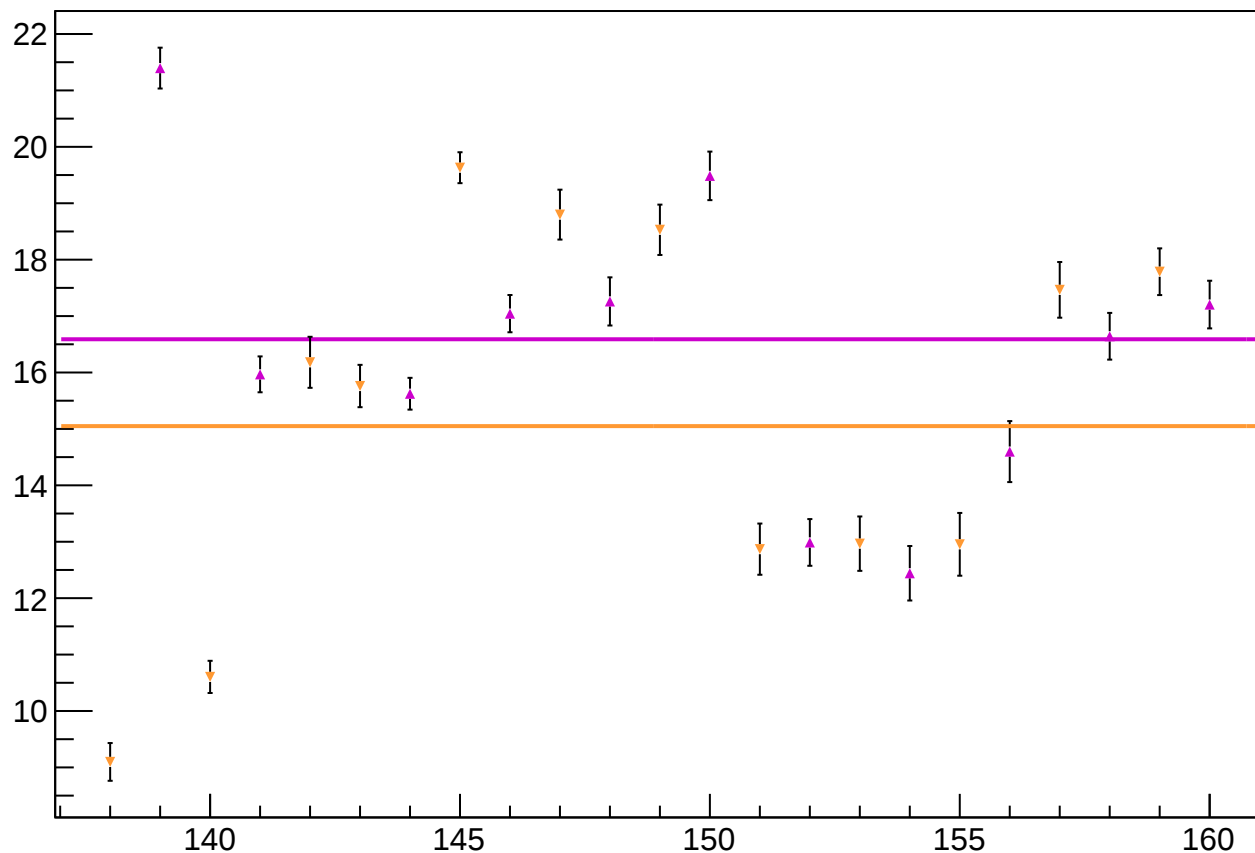
Right:  $0.095 \pm 0.008$   $\chi^2/\text{NDF}: 790.6/34$

In:  $-0.106 \pm 0.008$   $\chi^2/\text{NDF}: 1683.1/27$

Out:  $-0.100 \pm 0.008$   $\chi^2/\text{NDF}: 1326.8/29$

All:  $-0.103 \pm 0.006$   $\chi^2/\text{NDF}: 3010.2/57$

reg\_asym\_sam7\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.050+/-0.113  $\chi^2/\text{NDF}$ :1104.6/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 16.589+/-0.115  $\chi^2/\text{NDF}$ :406.6/10

Left: 15.800+/-0.081  $\chi^2/\text{NDF}$ : 1602.6/22

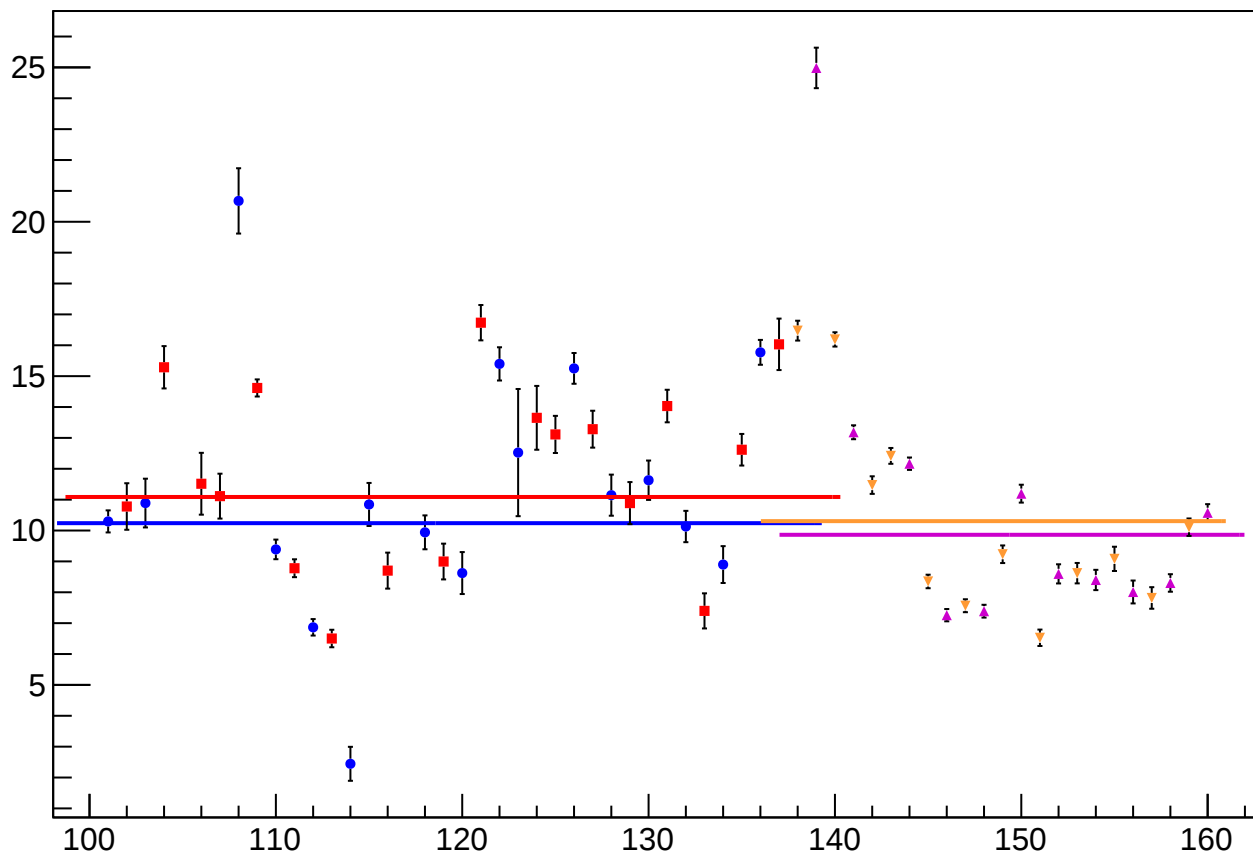
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 16.589+/-0.115  $\chi^2/\text{NDF}$ :406.6/10

Out: 15.050+/-0.113  $\chi^2/\text{NDF}$ :1104.6/11

All: 15.800+/-0.081  $\chi^2/\text{NDF}$ : 1602.6/22

reg\_asym\_sam7\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $10.238 \pm 0.119$   $\chi^2/\text{NDF}: 867.4/16$

Left Out:  $10.304 \pm 0.079$   $\chi^2/\text{NDF}: 1653.1/11$

Right Out:  $11.087 \pm 0.116$   $\chi^2/\text{NDF}: 801.0/17$

Left In:  $9.862 \pm 0.079$   $\chi^2/\text{NDF}: 1312.9/10$

Left:  $10.085 \pm 0.056$   $\chi^2/\text{NDF}: 2981.8/22$

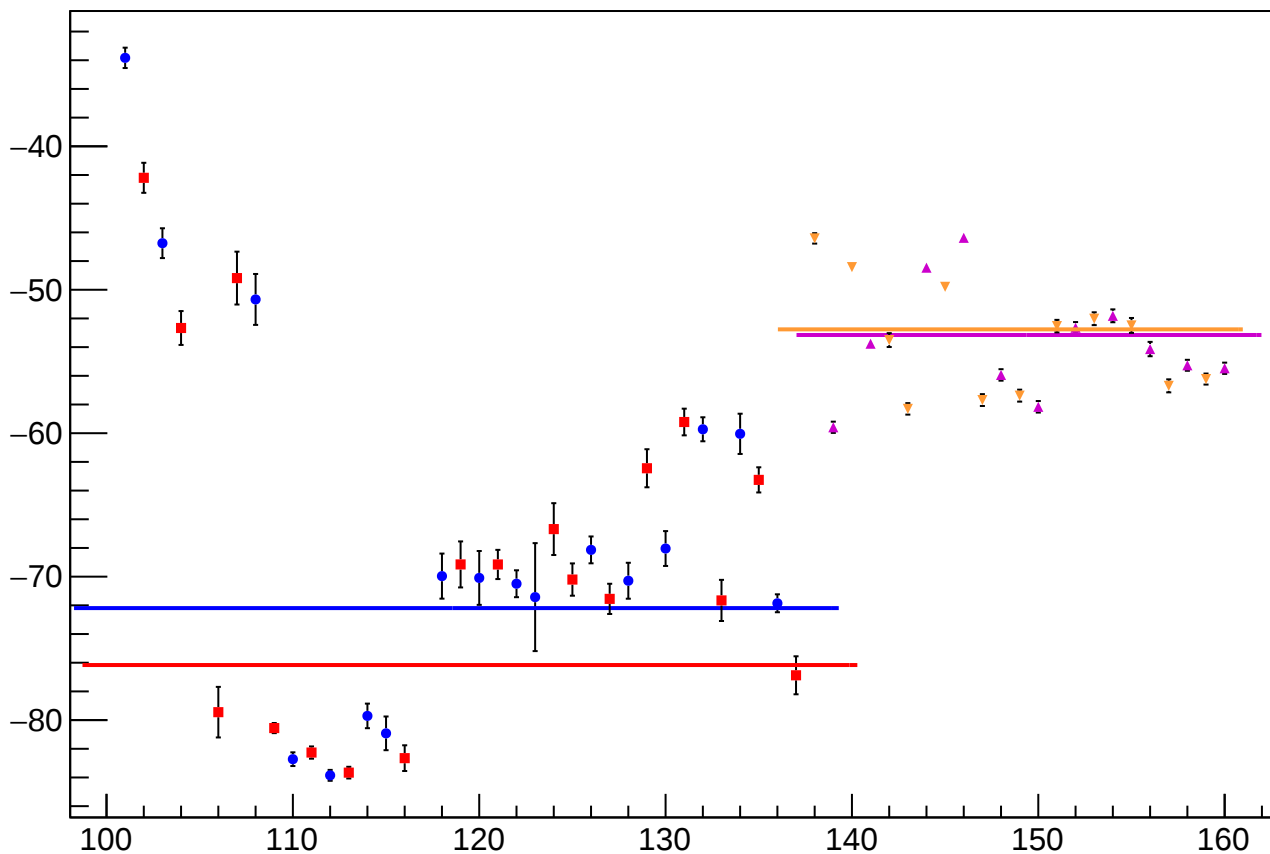
Right:  $10.672 \pm 0.083$   $\chi^2/\text{NDF}: 1694.4/34$

In:  $9.977 \pm 0.066$   $\chi^2/\text{NDF}: 2187.3/27$

Out:  $10.549 \pm 0.065$   $\chi^2/\text{NDF}: 2485.2/29$

All:  $10.267 \pm 0.046$   $\chi^2/\text{NDF}: 4710.5/57$

reg\_asym\_sam7\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-72.192 \pm 0.198$   $\chi^2/\text{NDF}: 5563.0/16$

Left Out:  $-52.761 \pm 0.113$   $\chi^2/\text{NDF}: 1232.0/11$

Right Out:  $-76.162 \pm 0.181$   $\chi^2/\text{NDF}: 3223.3/17$

Left In:  $-53.153 \pm 0.114$   $\chi^2/\text{NDF}: 1255.4/10$

Left:  $-52.956 \pm 0.080$   $\chi^2/\text{NDF}: 2493.4/22$

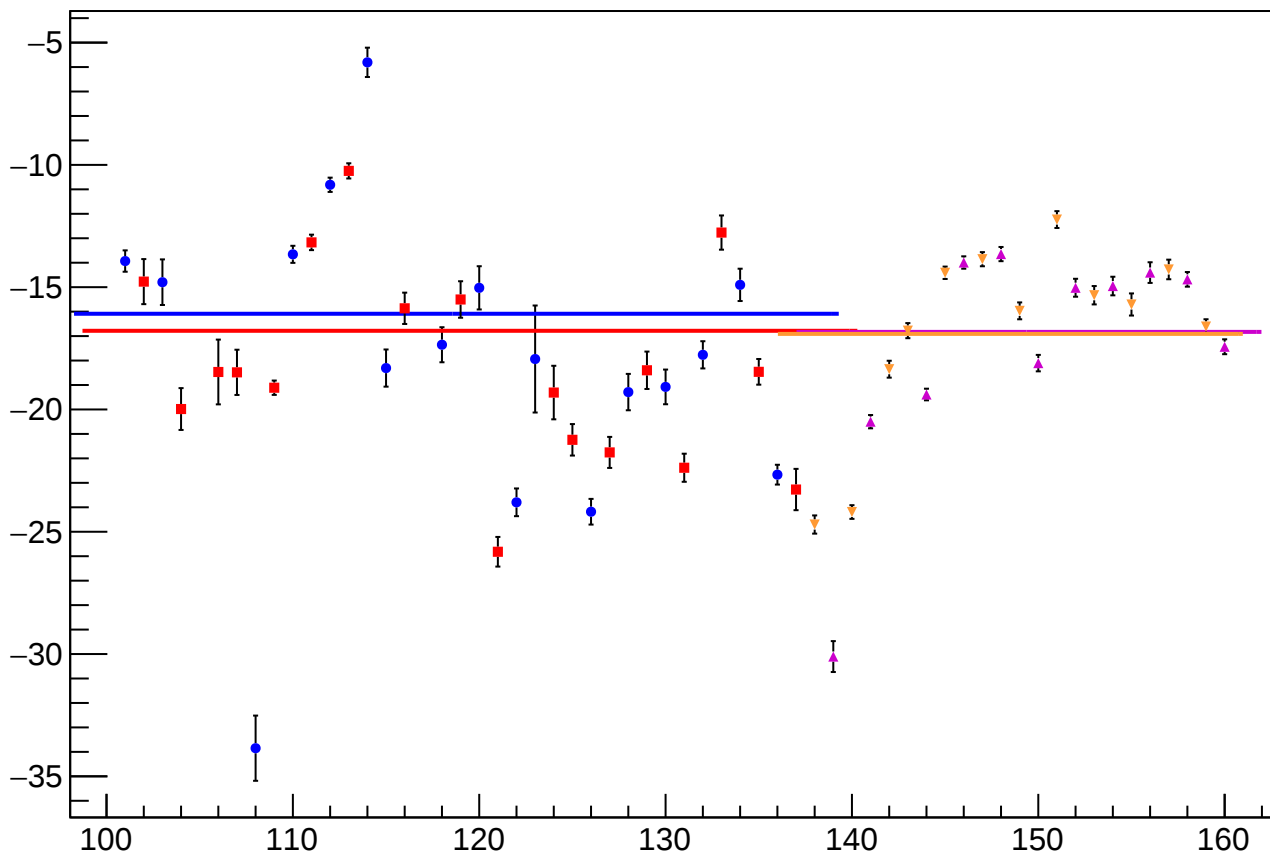
Right:  $-74.353 \pm 0.134$   $\chi^2/\text{NDF}: 9004.8/34$

In:  $-57.872 \pm 0.099$   $\chi^2/\text{NDF}: 13763.0/27$

Out:  $-59.338 \pm 0.096$   $\chi^2/\text{NDF}: 16441.2/29$

All:  $-58.624 \pm 0.069$   $\chi^2/\text{NDF}: 30317.4/57$

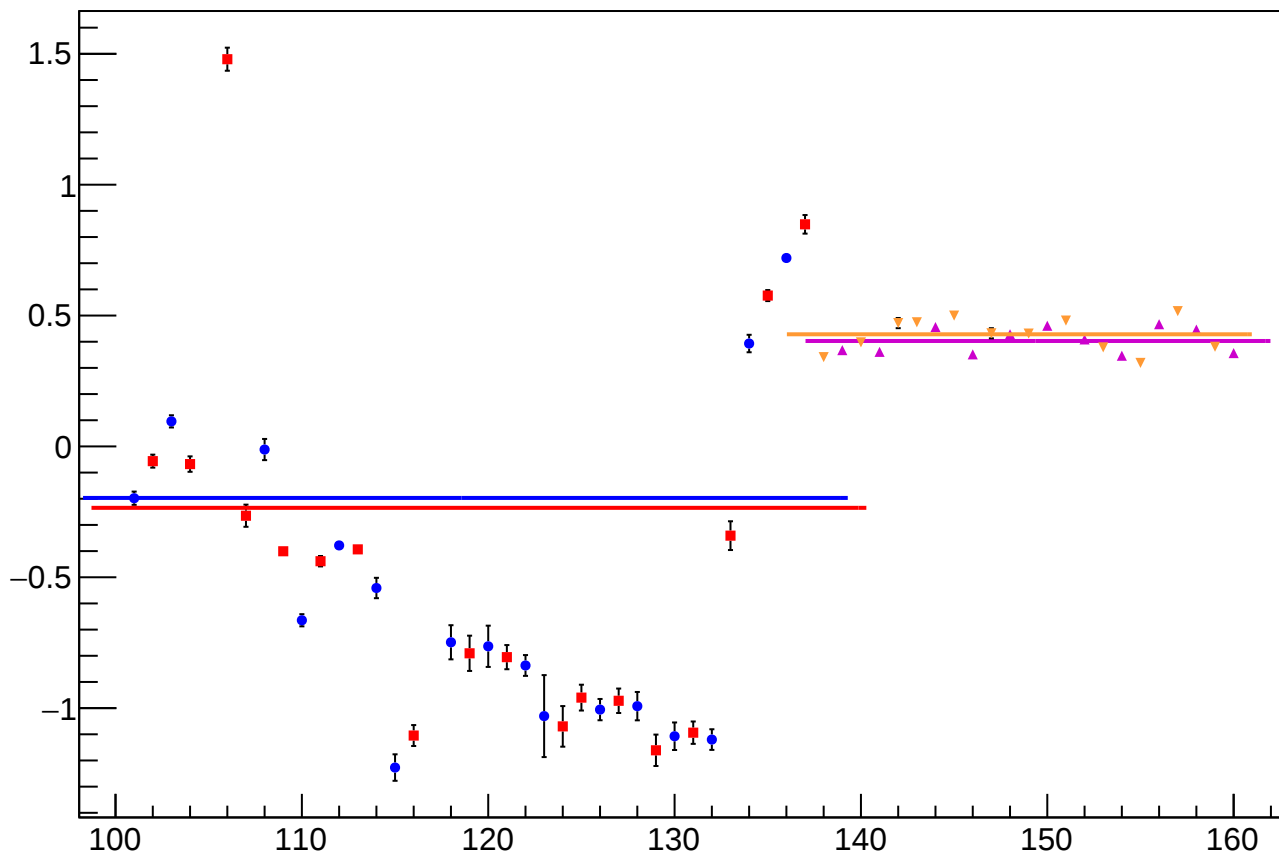
reg\_asym\_sam7\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: -16.087 $\pm$ 0.132  $\chi^2$ /NDF: 1621.7/16  
 Left Out: -16.910 $\pm$ 0.094  $\chi^2$ /NDF:1602.5/11  
 Right Out: -16.783 $\pm$ 0.128  $\chi^2$ /NDF: 1204.4/17  
 Left In: -16.828 $\pm$ 0.095  $\chi^2$ /NDF:1136.4/10

Left: -16.869 $\pm$ 0.067  $\chi^2$ /NDF: 2739.3/22  
 Right: -16.446 $\pm$ 0.092  $\chi^2$ /NDF: 2840.4/34  
 In: -16.578 $\pm$ 0.077  $\chi^2$ /NDF:2778.9/27  
 Out: -16.866 $\pm$ 0.076  $\chi^2$ /NDF:2807.5/29  
 All: -16.724 $\pm$ 0.054  $\chi^2$ /NDF: 5593.5/57

reg\_asym\_sam7\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}: 6329.9/16$

Left Out:  $0.428 \pm 0.004$   $\chi^2/\text{NDF}: 193.7/11$

Right Out:  $-0.235 \pm 0.007$   $\chi^2/\text{NDF}: 6204.9/17$

Left In:  $0.403 \pm 0.004$   $\chi^2/\text{NDF}: 106.9/10$

Left:  $0.416 \pm 0.003$   $\chi^2/\text{NDF}: 316.8/22$

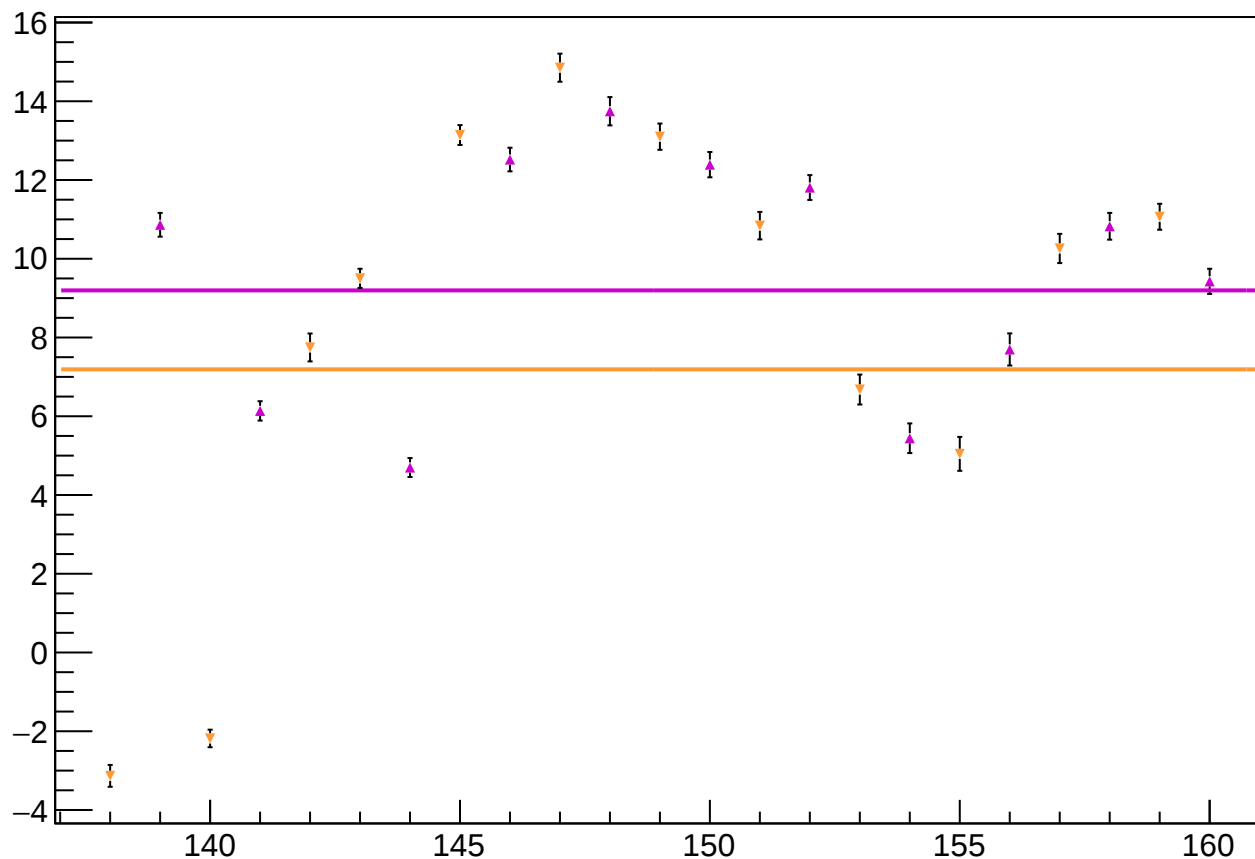
Right:  $-0.217 \pm 0.005$   $\chi^2/\text{NDF}: 12547.9/34$

In:  $0.246 \pm 0.004$   $\chi^2/\text{NDF}: 11099.9/27$

Out:  $0.243 \pm 0.004$   $\chi^2/\text{NDF}: 12521.7/29$

All:  $0.244 \pm 0.003$   $\chi^2/\text{NDF}: 23622.1/57$

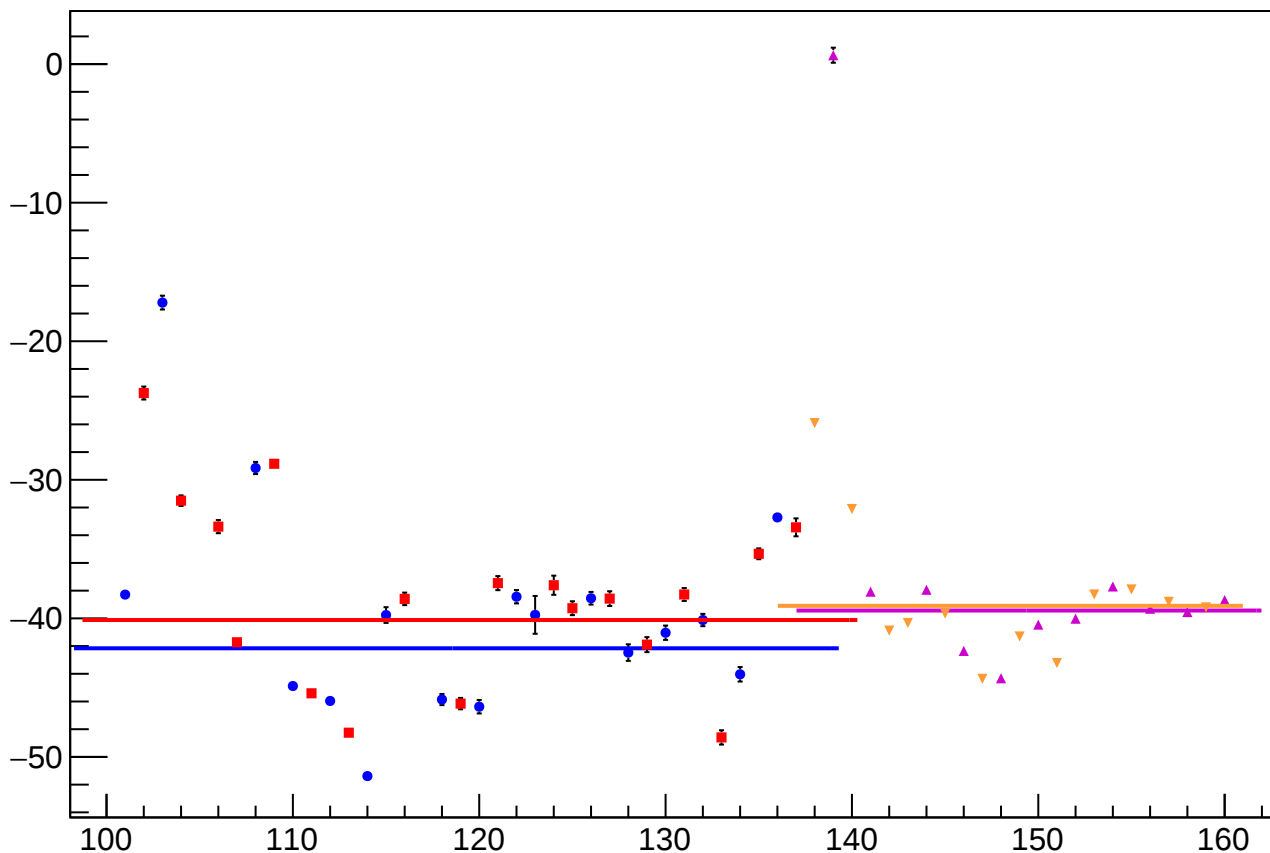
reg\_asym\_sam8\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.192+/-0.089  $\chi^2/\text{NDF}$ : 4922.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 9.196+/-0.093  $\chi^2/\text{NDF}$ : 1121.9/10

Left: 8.142+/-0.064  $\chi^2/\text{NDF}$ : 6287.0/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 9.196+/-0.093  $\chi^2/\text{NDF}$ : 1121.9/10  
 Out: 7.192+/-0.089  $\chi^2/\text{NDF}$ : 4922.3/11  
 All: 8.142+/-0.064  $\chi^2/\text{NDF}$ : 6287.0/22

reg\_asym\_sam8\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-42.160 \pm 0.078$   $\chi^2/\text{NDF}: 6570.6/16$

Left Out:  $-39.096 \pm 0.062$   $\chi^2/\text{NDF}: 5514.2/11$

Right Out:  $-40.120 \pm 0.073$   $\chi^2/\text{NDF}: 10884.6/17$

Left In:  $-39.435 \pm 0.065$   $\chi^2/\text{NDF}: 6657.5/10$

Left:  $-39.257 \pm 0.045$   $\chi^2/\text{NDF}: 12186.1/22$

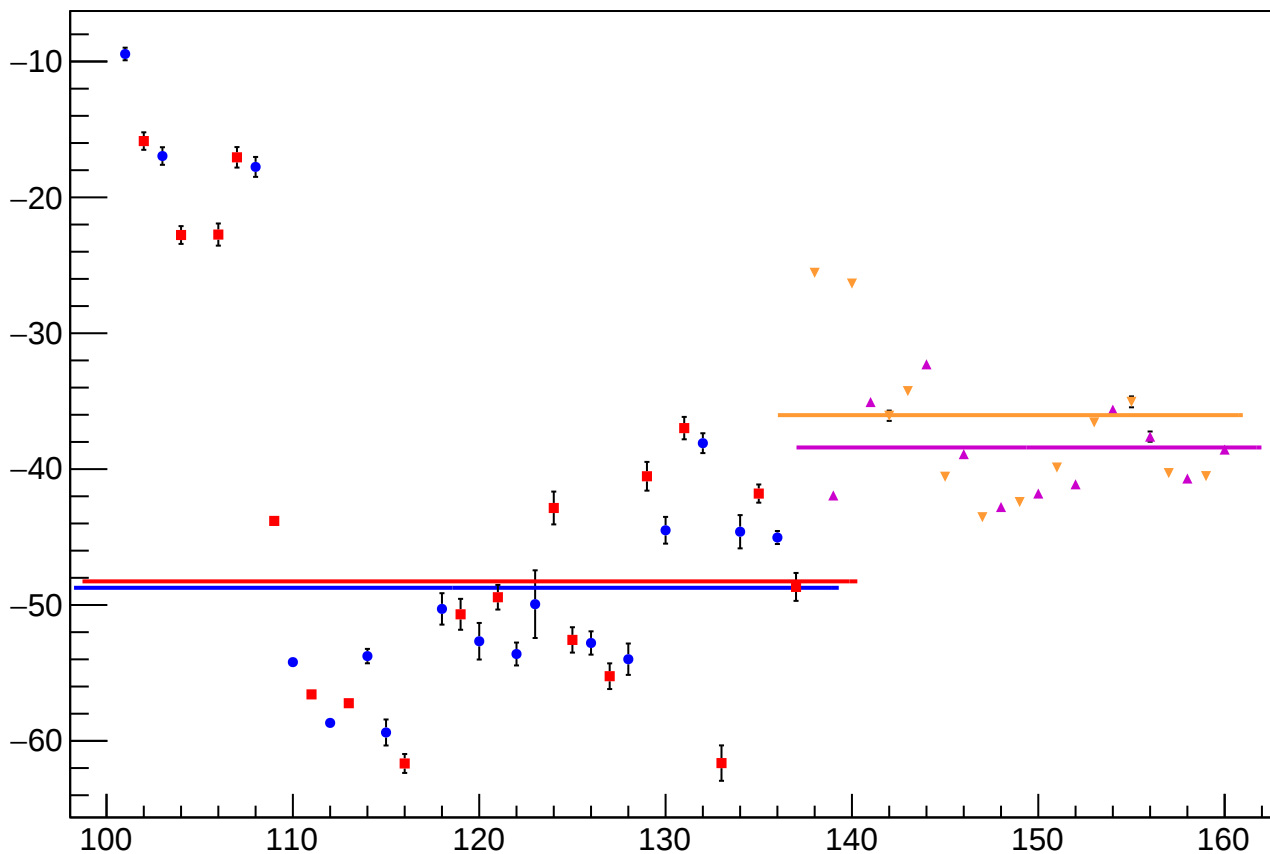
Right:  $-41.071 \pm 0.053$   $\chi^2/\text{NDF}: 17821.0/34$

In:  $-40.547 \pm 0.050$   $\chi^2/\text{NDF}: 13952.1/27$

Out:  $-39.523 \pm 0.047$   $\chi^2/\text{NDF}: 16514.0/29$

All:  $-40.006 \pm 0.034$   $\chi^2/\text{NDF}: 30689.9/57$

reg\_asym\_sam8\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-48.733 \pm 0.125$   $\chi^2/\text{NDF}$ : 14659.4/16

Left Out:  $-36.028 \pm 0.089$   $\chi^2/\text{NDF}$ : 4654.4/11

Right Out:  $-48.261 \pm 0.107$   $\chi^2/\text{NDF}$ : 11091.7/17

Left In:  $-38.406 \pm 0.092$   $\chi^2/\text{NDF}$ : 1346.5/10

Left:  $-37.180 \pm 0.064$   $\chi^2/\text{NDF}$ : 6346.9/22

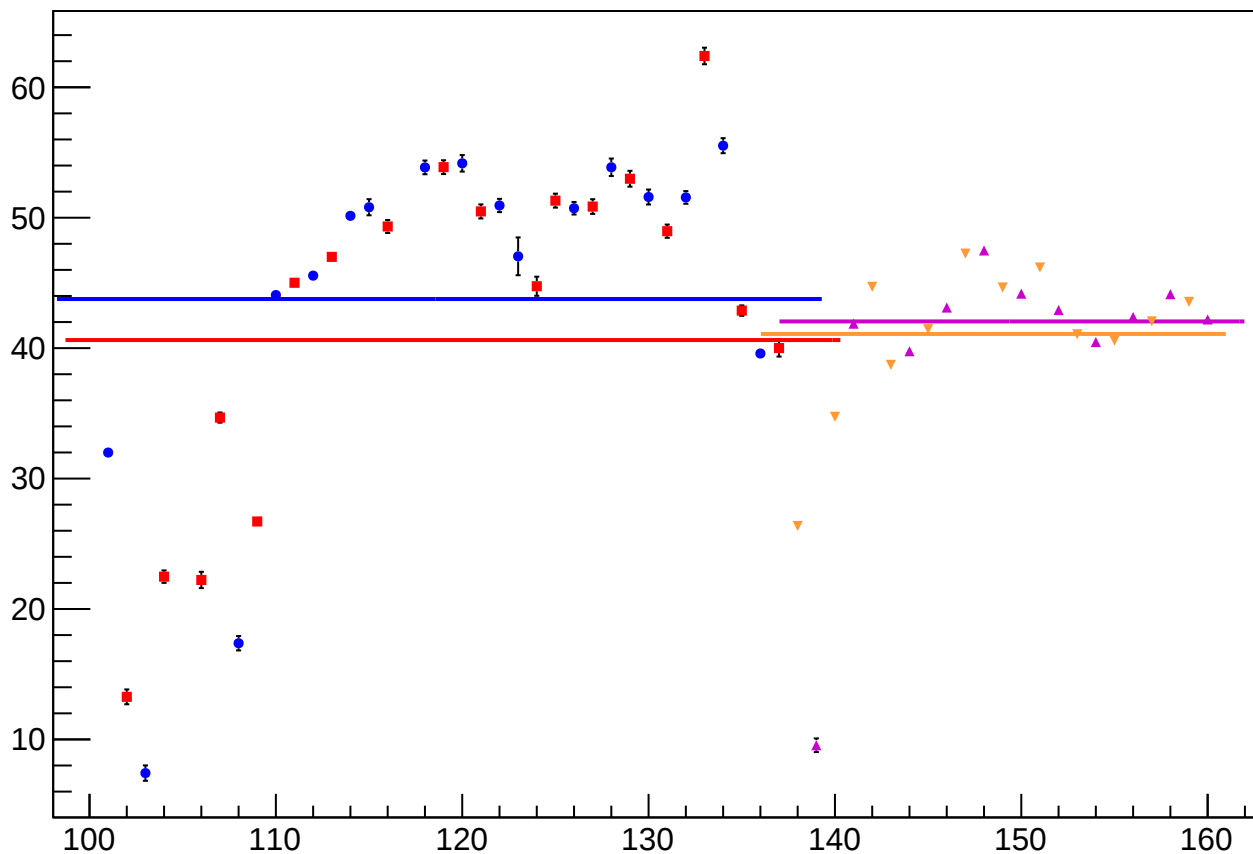
Right:  $-48.462 \pm 0.081$   $\chi^2/\text{NDF}$ : 25759.4/34

In:  $-42.037 \pm 0.074$   $\chi^2/\text{NDF}$ : 20454.2/27

Out:  $-41.006 \pm 0.069$   $\chi^2/\text{NDF}$ : 23435.1/29

All:  $-41.482 \pm 0.050$   $\chi^2/\text{NDF}$ : 43993.9/57

reg\_asym\_sam8\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 43.767 $\pm$ 0.087  $\chi^2$ /NDF: 10633.5/16

Left Out: 41.088 $\pm$ 0.074  $\chi^2$ /NDF:4782.7/11

Right Out: 40.620 $\pm$ 0.080  $\chi^2$ /NDF: 16957.4/17

Left In: 42.048 $\pm$ 0.077  $\chi^2$ /NDF:4665.4/10

Left: 41.551 $\pm$ 0.053  $\chi^2$ /NDF: 9529.6/22

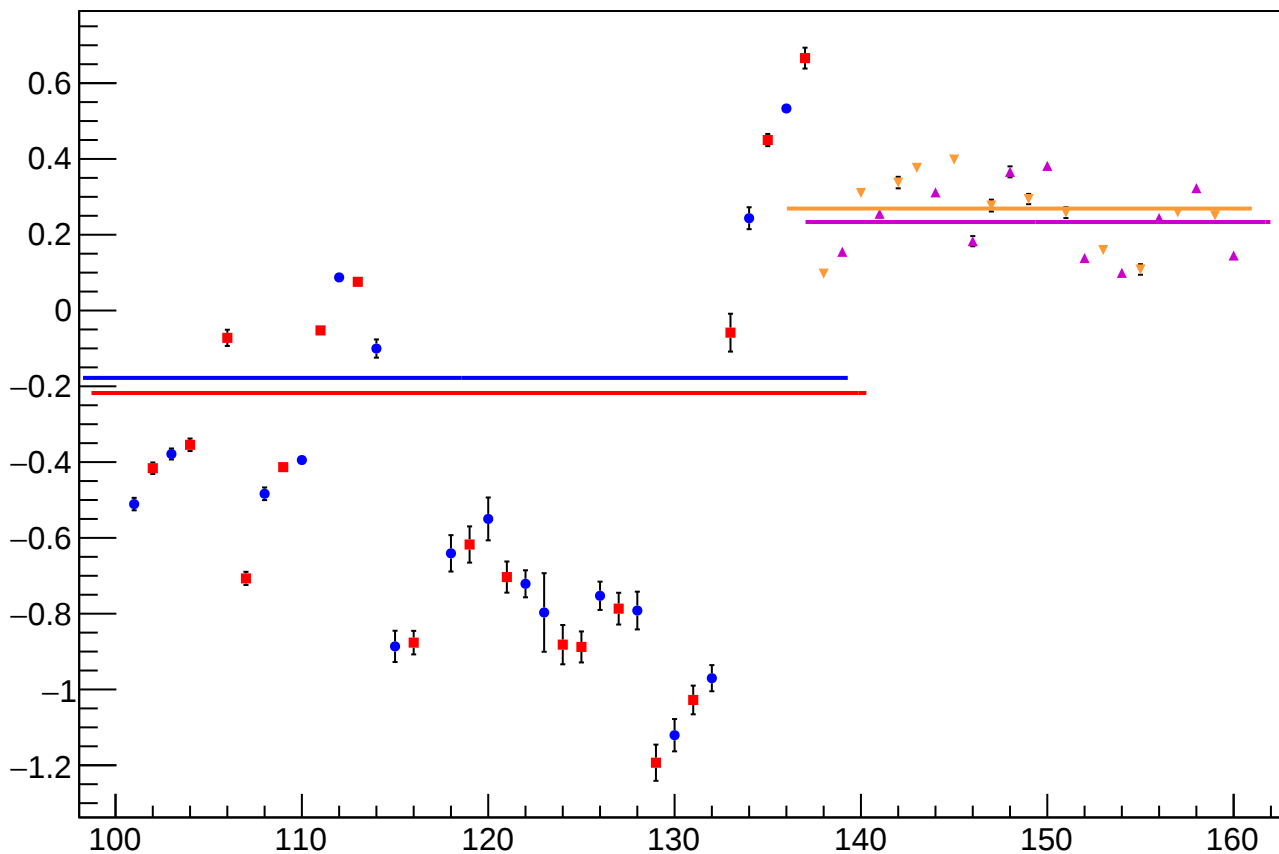
Right: 42.070 $\pm$ 0.059  $\chi^2$ /NDF: 28299.2/34

In: 42.801 $\pm$ 0.057  $\chi^2$ /NDF:15519.2/27

Out: 40.874 $\pm$ 0.054  $\chi^2$ /NDF:21758.5/29

All: 41.784 $\pm$ 0.039  $\chi^2$ /NDF: 37871.6/57

reg\_asym\_sam8\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.178 \pm 0.005$   $\chi^2/\text{NDF}$ : 7364.4/16

Left Out:  $0.269 \pm 0.004$   $\chi^2/\text{NDF}$ : 716.2/11

Right Out:  $-0.218 \pm 0.004$   $\chi^2/\text{NDF}$ : 7455.7/17

Left In:  $0.234 \pm 0.004$   $\chi^2/\text{NDF}$ : 644.9/10

Left:  $0.252 \pm 0.003$   $\chi^2/\text{NDF}$ : 1411.0/22

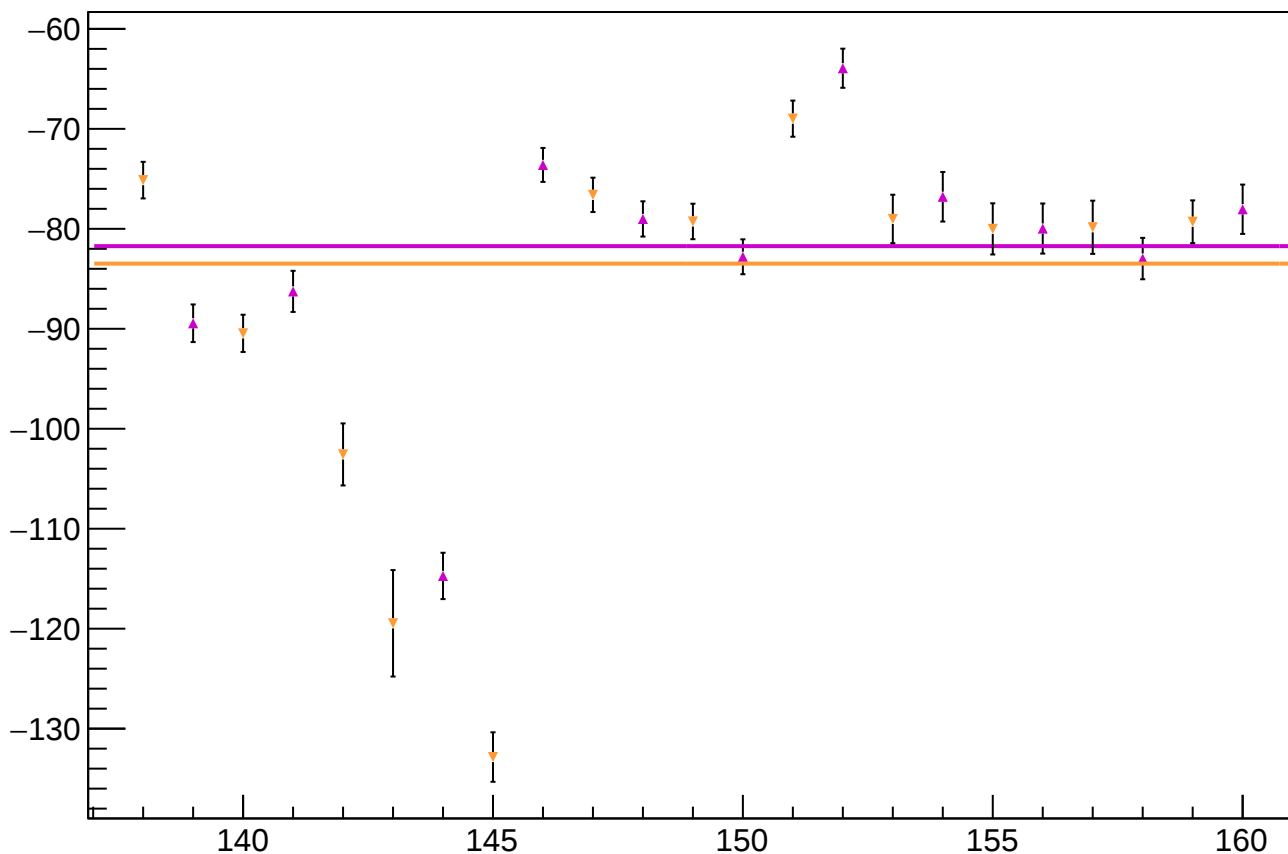
Right:  $-0.200 \pm 0.003$   $\chi^2/\text{NDF}$ : 14857.8/34

In:  $0.087 \pm 0.003$   $\chi^2/\text{NDF}$ : 12657.2/27

Out:  $0.074 \pm 0.003$   $\chi^2/\text{NDF}$ : 15811.0/29

All:  $0.080 \pm 0.002$   $\chi^2/\text{NDF}$ : 28478.5/57

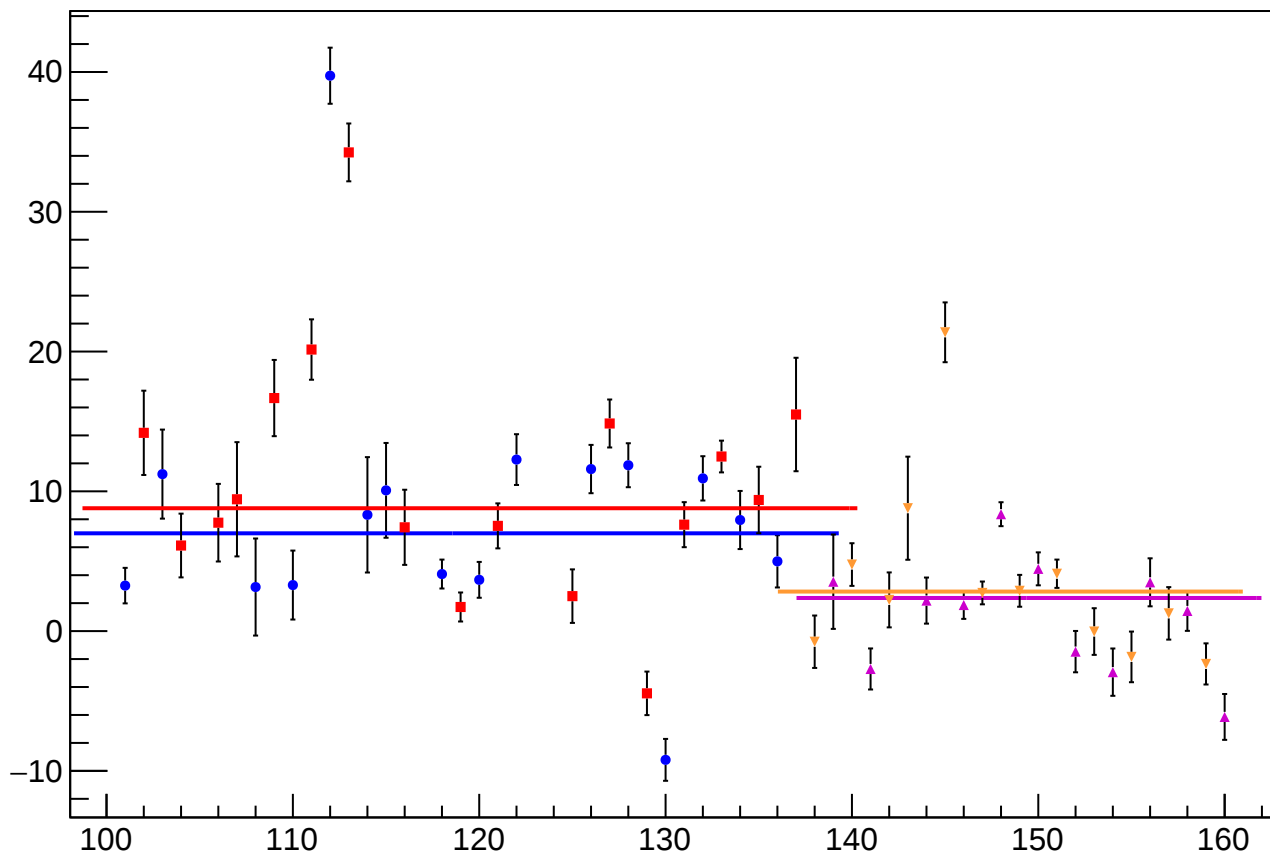
reg\_asym\_usl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out:  $-83.481 \pm 0.628$   $\chi^2/\text{NDF}$ : 612.7/11  
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 Left In:  $-81.734 \pm 0.611$   $\chi^2/\text{NDF}$ : 339.6/10

Left:  $-82.583 \pm 0.438$   $\chi^2/\text{NDF}$ : 956.3/22  
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0  
 In:  $-81.734 \pm 0.611$   $\chi^2/\text{NDF}$ : 339.6/10  
 Out:  $-83.481 \pm 0.628$   $\chi^2/\text{NDF}$ : 612.7/11  
 All:  $-82.583 \pm 0.438$   $\chi^2/\text{NDF}$ : 956.3/22

reg\_asym\_usl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 6.996 $\pm$ 0.434  $\chi^2/\text{NDF}$ : 445.3/15

Left Out: 2.828 $\pm$ 0.411  $\chi^2/\text{NDF}$ :107.4/11

Right Out: 8.790 $\pm$ 0.449  $\chi^2/\text{NDF}$ : 348.8/16

Left In: 2.369 $\pm$ 0.407  $\chi^2/\text{NDF}$ :108.8/10

Left: 2.597 $\pm$ 0.289  $\chi^2/\text{NDF}$ : 216.8/22

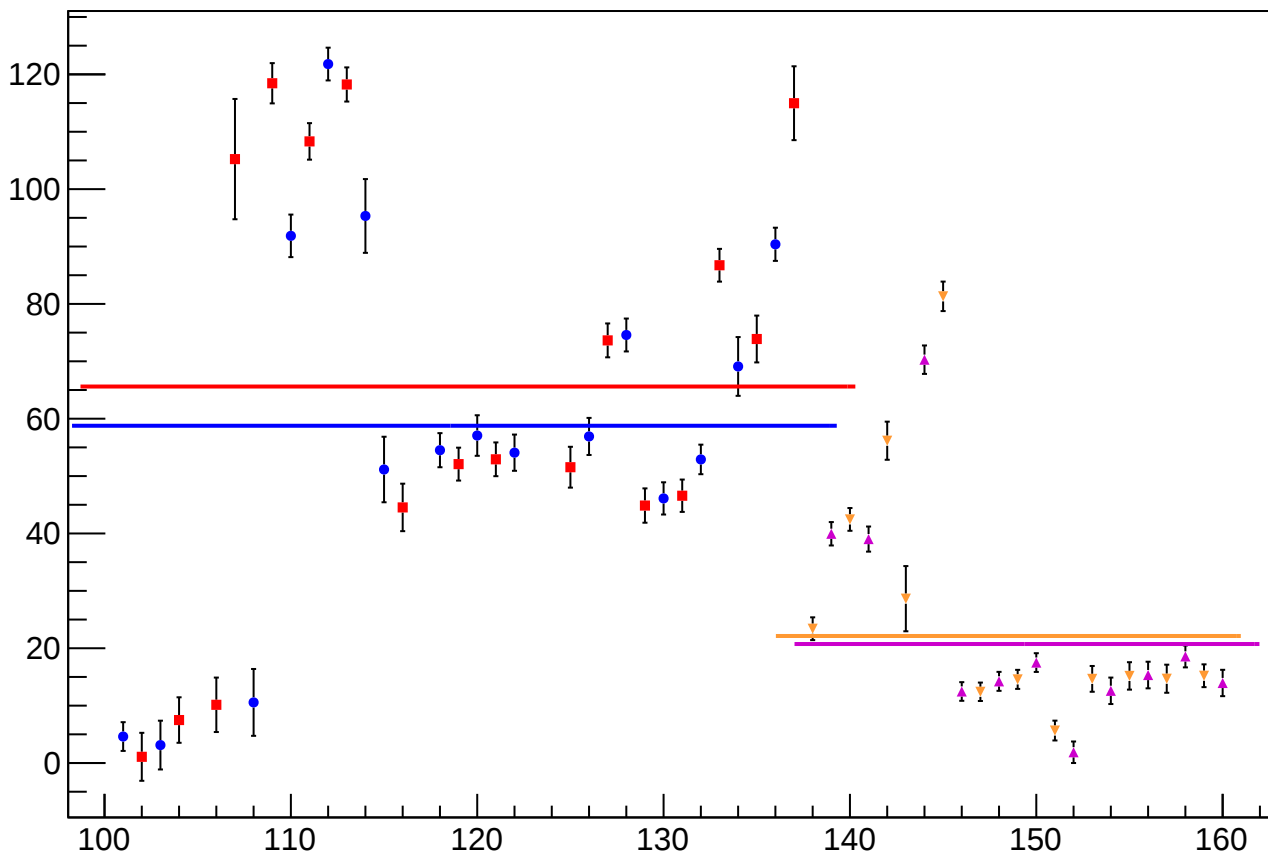
Right: 7.862 $\pm$ 0.312  $\chi^2/\text{NDF}$ : 802.4/32

In: 4.535 $\pm$ 0.297  $\chi^2/\text{NDF}$ :614.6/26

Out: 5.542 $\pm$ 0.303  $\chi^2/\text{NDF}$ :552.1/28

All: 5.028 $\pm$ 0.212  $\chi^2/\text{NDF}$ : 1172.3/55

reg\_asym\_usl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 58.770 $\pm$ 0.833  $\chi^2$ /NDF: 1493.3/15

Left Out: 22.137 $\pm$ 0.613  $\chi^2$ /NDF: 931.7/11

Right Out: 65.606 $\pm$ 0.845  $\chi^2$ /NDF: 1625.3/16

Left In: 20.738 $\pm$ 0.592  $\chi^2$ /NDF: 732.8/10

Left: 21.413 $\pm$ 0.426  $\chi^2$ /NDF: 1667.2/22

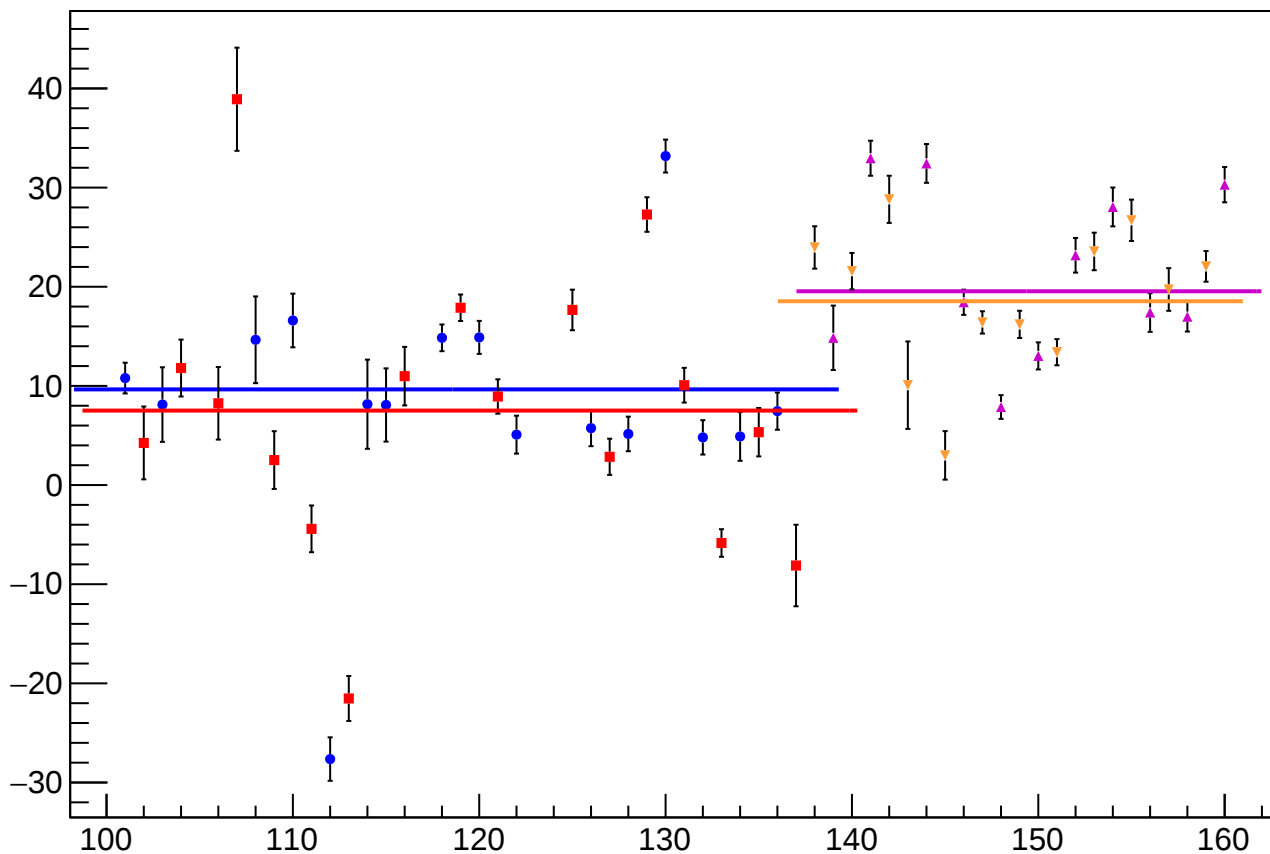
Right: 62.140 $\pm$ 0.593  $\chi^2$ /NDF: 3151.9/32

In: 33.499 $\pm$ 0.482  $\chi^2$ /NDF: 3611.5/26

Out: 37.132 $\pm$ 0.496  $\chi^2$ /NDF: 4291.6/28

All: 35.265 $\pm$ 0.346  $\chi^2$ /NDF: 7930.6/55

reg\_asym\_usl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $9.648 \pm 0.502$   $\chi^2/\text{NDF}: 553.6/15$

Left Out:  $18.537 \pm 0.503$   $\chi^2/\text{NDF}: 121.5/11$

Right Out:  $7.511 \pm 0.516$   $\chi^2/\text{NDF}: 564.3/16$

Left In:  $19.544 \pm 0.491$   $\chi^2/\text{NDF}: 285.8/10$

Left:  $19.053 \pm 0.352$   $\chi^2/\text{NDF}: 409.3/22$

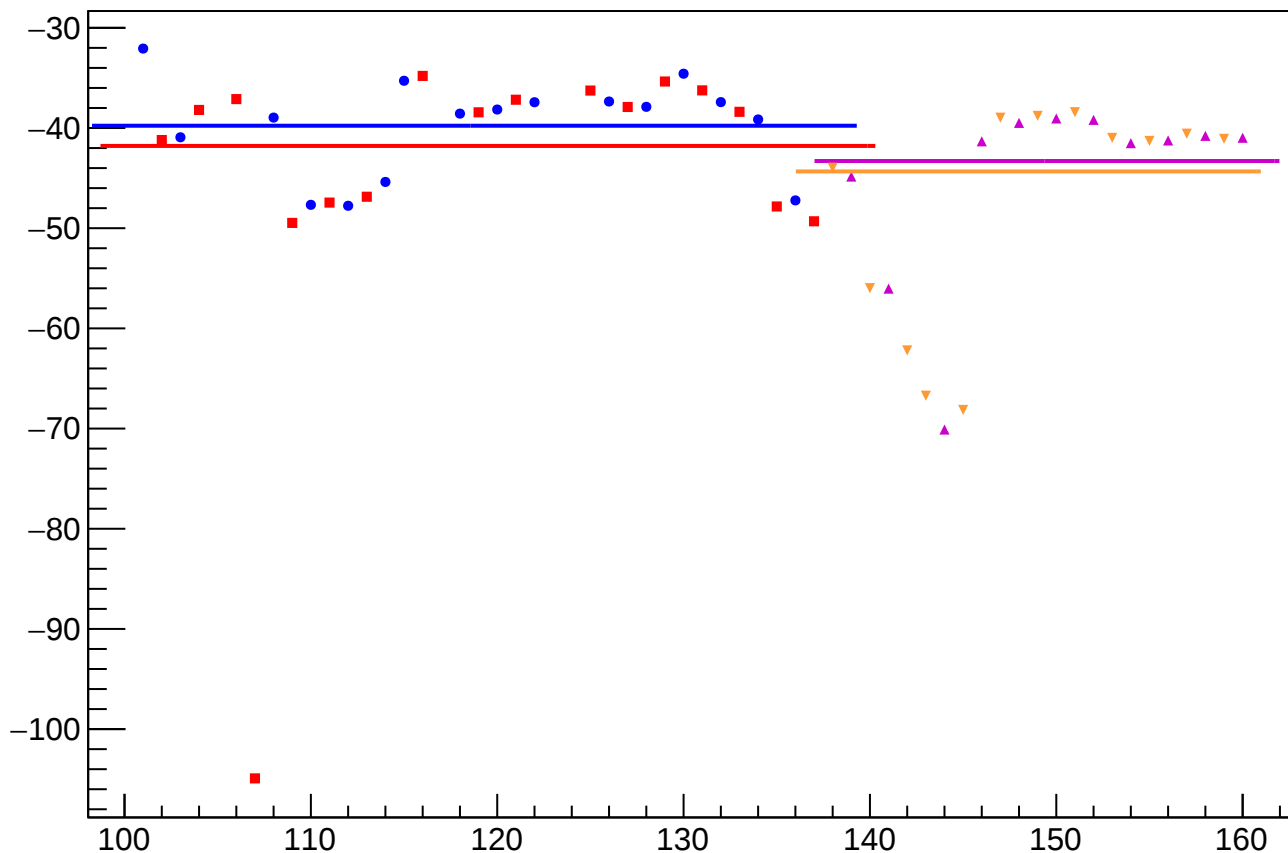
Right:  $8.610 \pm 0.360$   $\chi^2/\text{NDF}: 1126.7/32$

In:  $14.702 \pm 0.351$   $\chi^2/\text{NDF}: 1037.8/26$

Out:  $13.167 \pm 0.360$   $\chi^2/\text{NDF}: 919.5/28$

All:  $13.954 \pm 0.252$   $\chi^2/\text{NDF}: 1966.6/55$

reg\_asym\_usl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-39.771 \pm 0.031$   $\chi^2/\text{NDF}$ : 26176.5/15

Left Out:  $-44.334 \pm 0.025$   $\chi^2/\text{NDF}$ : 124934.4/11

Right Out:  $-41.787 \pm 0.031$   $\chi^2/\text{NDF}$ : 93008.7/16

Left In:  $-43.294 \pm 0.023$   $\chi^2/\text{NDF}$ : 95564.9/10

Left:  $-43.786 \pm 0.017$   $\chi^2/\text{NDF}$ : 221445.5/22

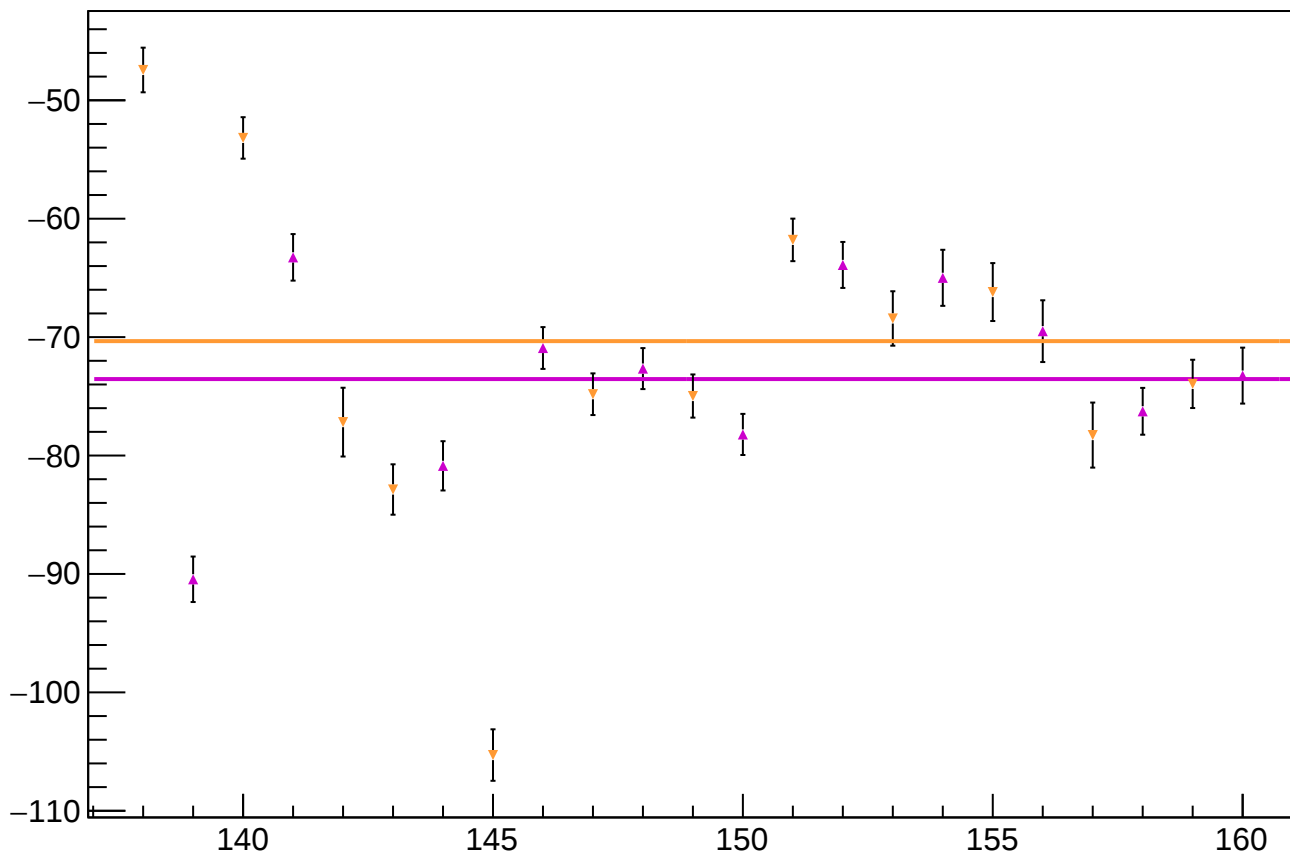
Right:  $-40.769 \pm 0.022$   $\chi^2/\text{NDF}$ : 121265.0/32

In:  $-42.030 \pm 0.019$   $\chi^2/\text{NDF}$ : 129964.9/26

Out:  $-43.368 \pm 0.019$   $\chi^2/\text{NDF}$ : 222027.7/28

All:  $-42.674 \pm 0.013$   $\chi^2/\text{NDF}$ : 354478.5/55

reg\_asym\_usr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-70.338 \pm 0.595$   $\chi^2/\text{NDF}: 592.9/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-73.543 \pm 0.600$   $\chi^2/\text{NDF}: 169.0/10$

Left:  $-71.927 \pm 0.423$   $\chi^2/\text{NDF}: 776.3/22$

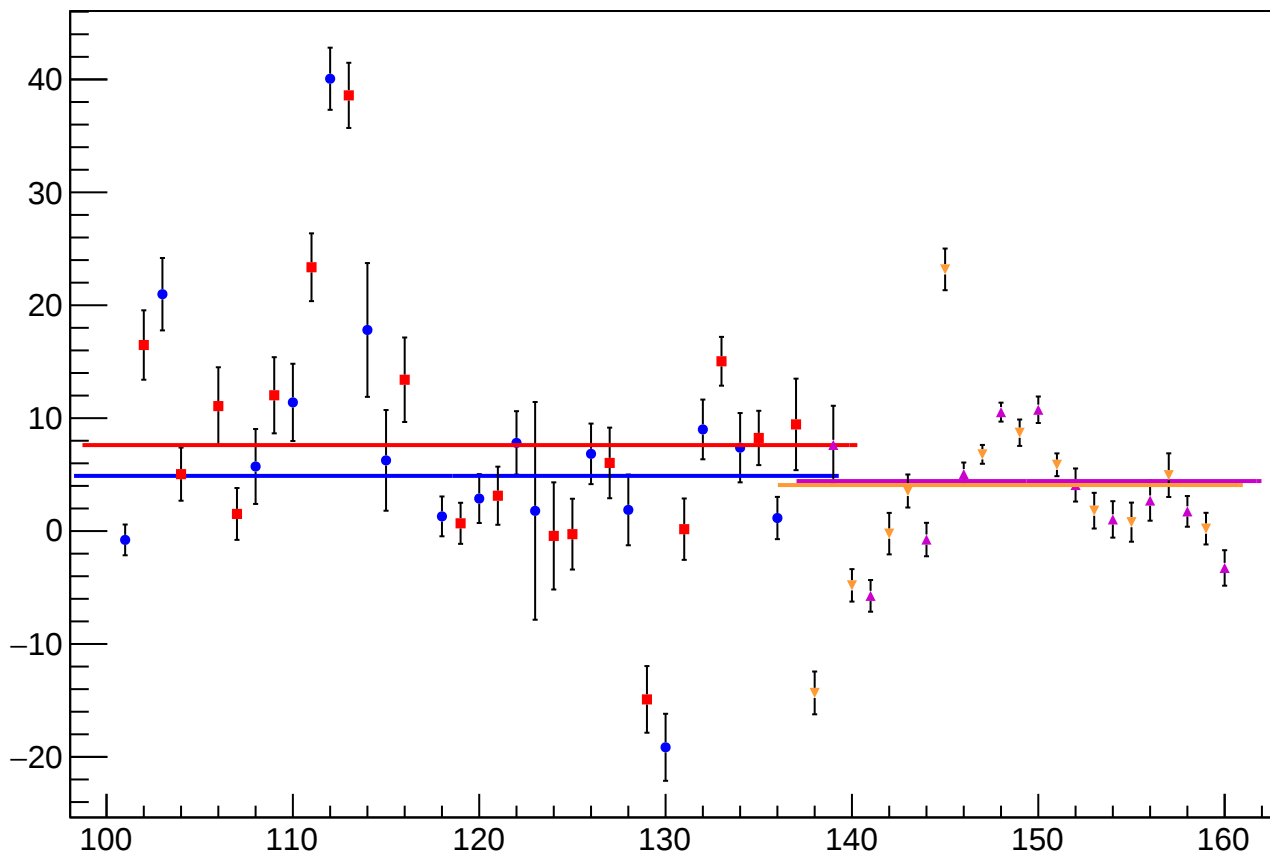
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-73.543 \pm 0.600$   $\chi^2/\text{NDF}: 169.0/10$

Out:  $-70.338 \pm 0.595$   $\chi^2/\text{NDF}: 592.9/11$

All:  $-71.927 \pm 0.423$   $\chi^2/\text{NDF}: 776.3/22$

reg\_asym\_usr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.888 \pm 0.622$   $\chi^2/\text{NDF}$ : 294.7/16

Left Out:  $4.075 \pm 0.393$   $\chi^2/\text{NDF}$ : 288.3/11

Right Out:  $7.615 \pm 0.652$   $\chi^2/\text{NDF}$ : 269.2/17

Left In:  $4.430 \pm 0.400$   $\chi^2/\text{NDF}$ : 181.2/10

Left:  $4.249 \pm 0.280$   $\chi^2/\text{NDF}$ : 469.9/22

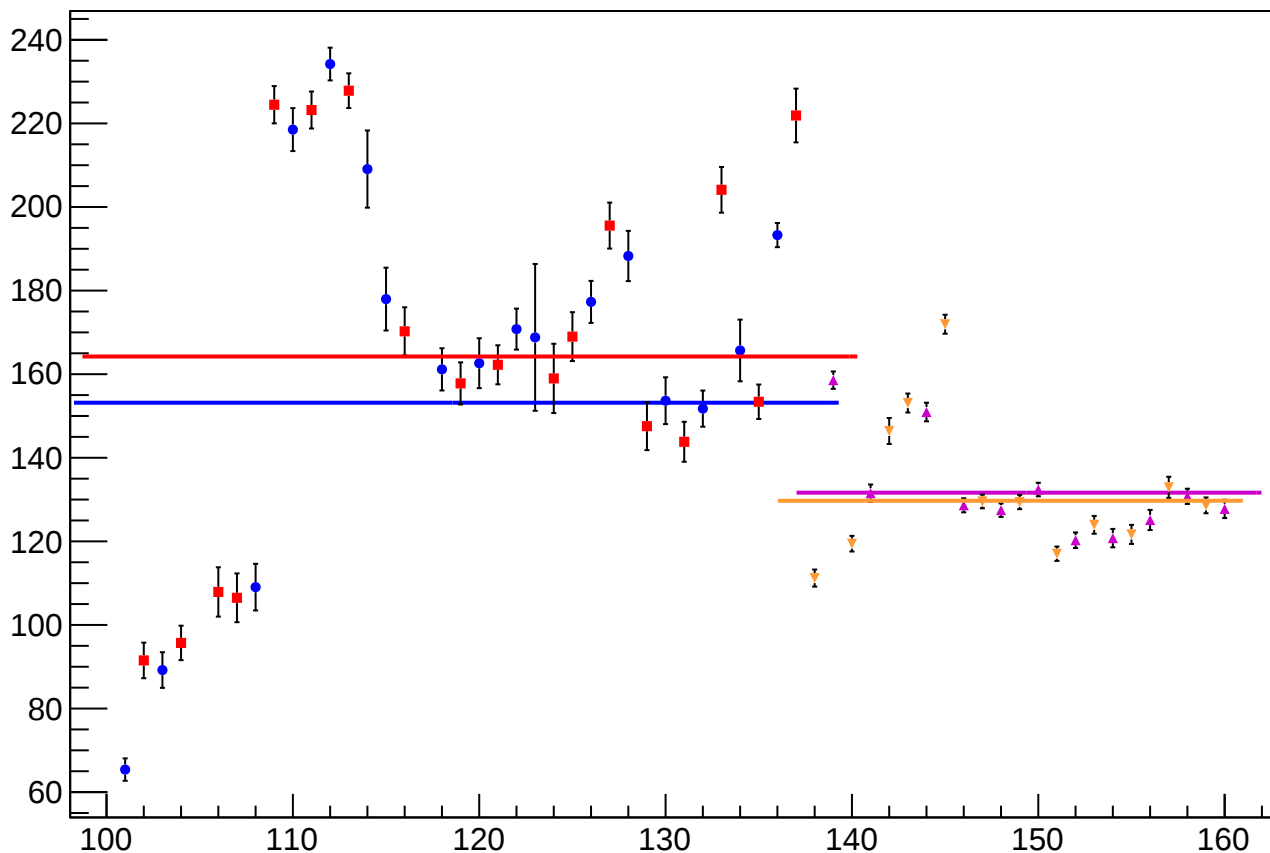
Right:  $6.187 \pm 0.450$   $\chi^2/\text{NDF}$ : 573.1/34

In:  $4.564 \pm 0.336$   $\chi^2/\text{NDF}$ : 476.3/27

Out:  $5.017 \pm 0.336$   $\chi^2/\text{NDF}$ : 579.1/29

All:  $4.791 \pm 0.238$   $\chi^2/\text{NDF}$ : 1056.3/57

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 153.174 $\pm$ 1.146  $\chi^2/\text{NDF}$ : 2264.3/16

Left Out: 129.714 $\pm$ 0.585  $\chi^2/\text{NDF}$ : 669.9/11

Right Out: 164.232 $\pm$ 1.183  $\chi^2/\text{NDF}$ : 1554.8/17

Left In: 131.653 $\pm$ 0.583  $\chi^2/\text{NDF}$ : 325.5/10

Left: 130.688 $\pm$ 0.413  $\chi^2/\text{NDF}$ : 1000.9/22

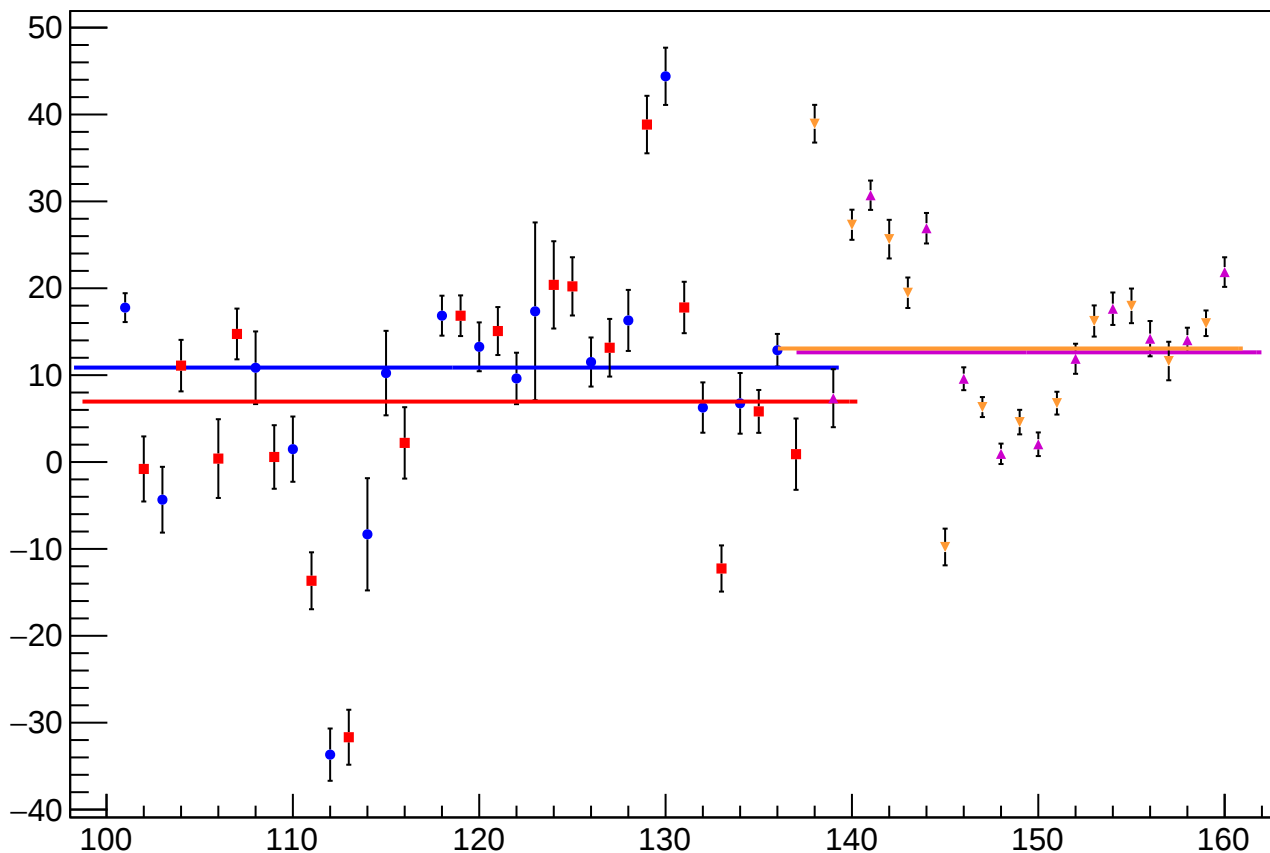
Right: 158.528 $\pm$ 0.823  $\chi^2/\text{NDF}$ : 3864.1/34

In: 136.070 $\pm$ 0.519  $\chi^2/\text{NDF}$ : 2869.9/27

Out: 136.496 $\pm$ 0.524  $\chi^2/\text{NDF}$ : 2908.6/29

All: 136.281 $\pm$ 0.369  $\chi^2/\text{NDF}$ : 5778.8/57

reg\_asym\_usr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $10.872 \pm 0.714$   $\chi^2/\text{NDF}$ : 386.7/16

Left Out:  $13.069 \pm 0.479$   $\chi^2/\text{NDF}$ : 478.7/11

Right Out:  $6.958 \pm 0.749$   $\chi^2/\text{NDF}$ : 422.3/17

Left In:  $12.625 \pm 0.482$   $\chi^2/\text{NDF}$ : 386.6/10

Left:  $12.848 \pm 0.340$   $\chi^2/\text{NDF}$ : 865.7/22

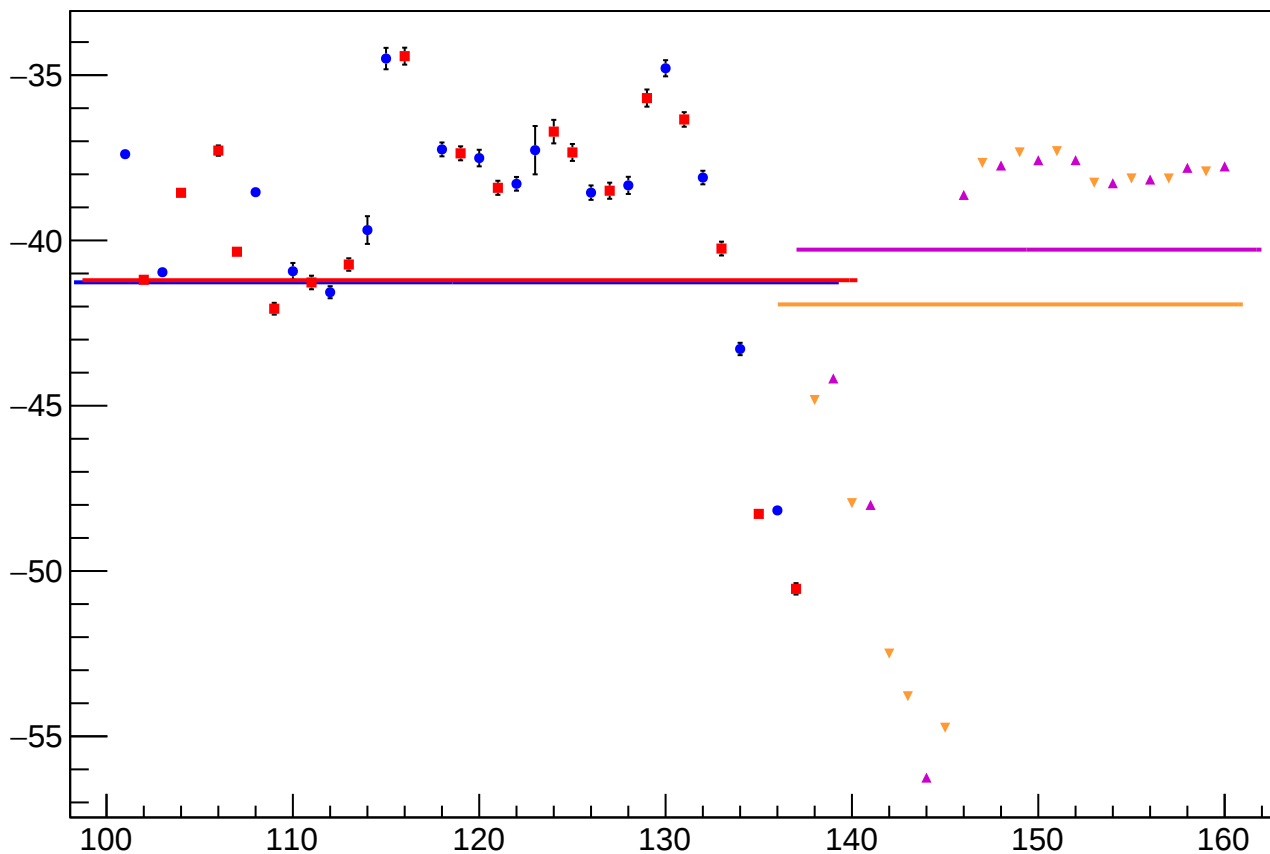
Right:  $9.008 \pm 0.517$   $\chi^2/\text{NDF}$ : 823.3/34

In:  $12.076 \pm 0.400$   $\chi^2/\text{NDF}$ : 777.4/27

Out:  $11.296 \pm 0.403$   $\chi^2/\text{NDF}$ : 948.2/29

All:  $11.690 \pm 0.284$   $\chi^2/\text{NDF}$ : 1727.5/57

reg\_asym\_usr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -41.267±/0.039  $\chi^2/\text{NDF}$ : 12581.8/16

Left Out: -41.935±/0.023  $\chi^2/\text{NDF}$ : 72071.3/11

Right Out: -41.204±/0.039  $\chi^2/\text{NDF}$ : 12008.6/17

Left In: -40.279±/0.023  $\chi^2/\text{NDF}$ : 46519.9/10

Left: -41.090±/0.016  $\chi^2/\text{NDF}$ : 121152.6/22

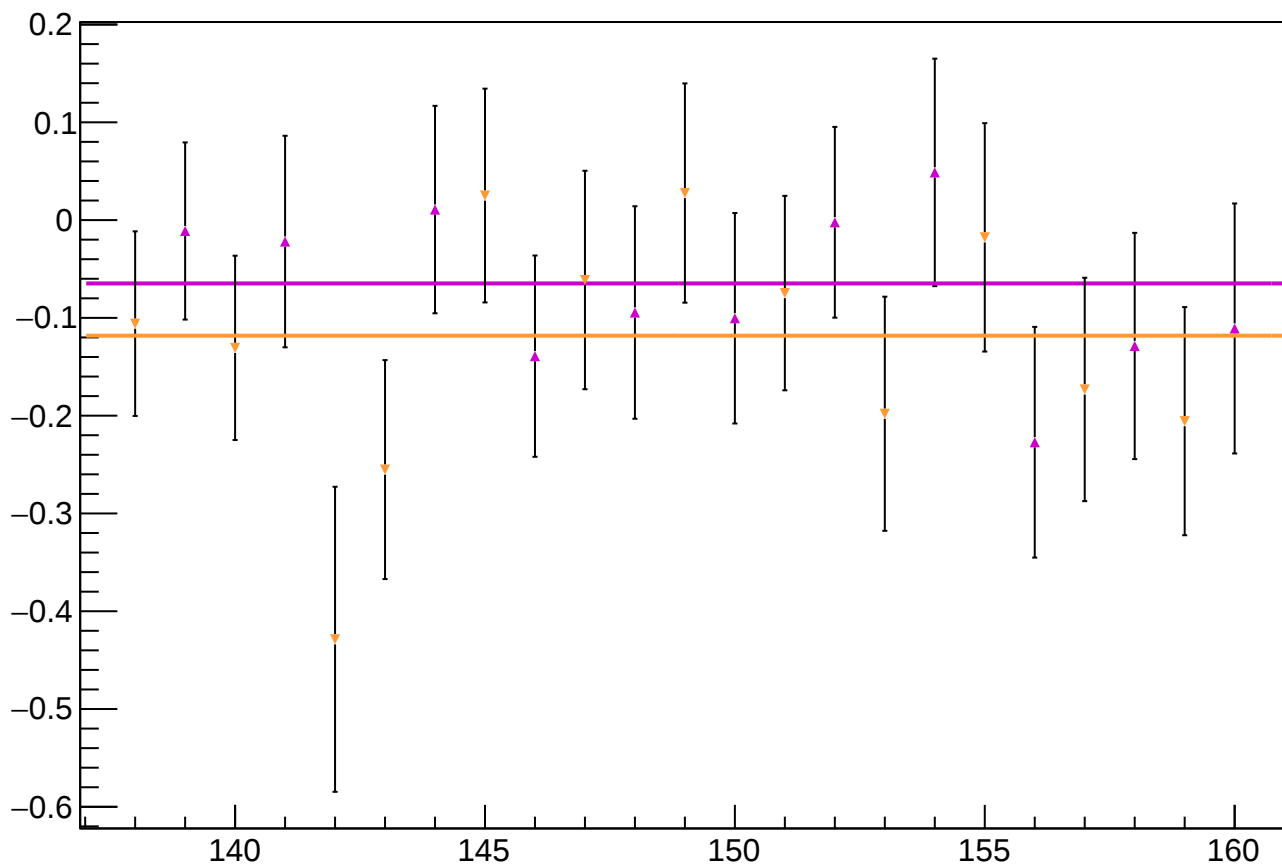
Right: -41.236±/0.027  $\chi^2/\text{NDF}$ : 24591.7/34

In: -40.537±/0.020  $\chi^2/\text{NDF}$ : 59587.8/27

Out: -41.741±/0.020  $\chi^2/\text{NDF}$ : 84340.2/29

All: -41.129±/0.014  $\chi^2/\text{NDF}$ : 145765.0/57

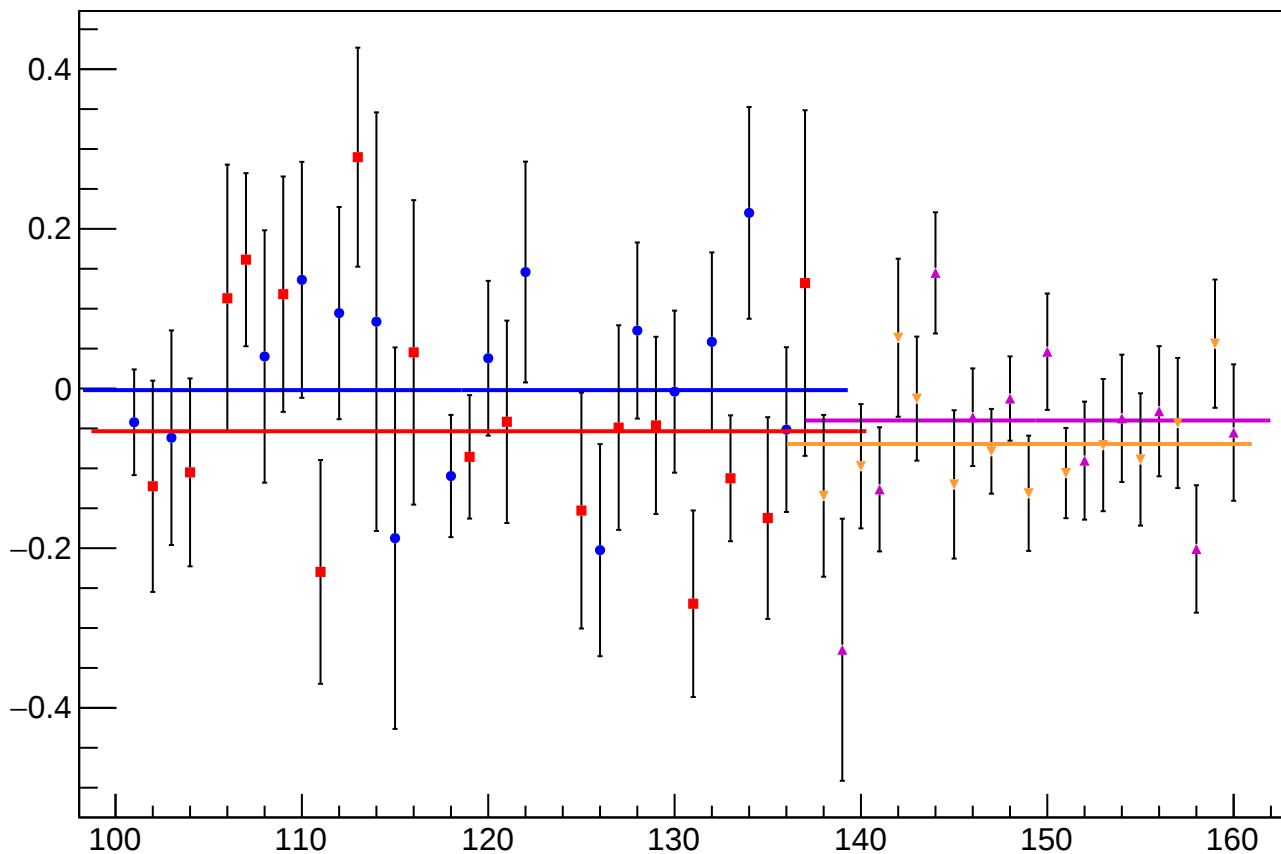
reg\_asym\_dsl\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-0.118 \pm 0.032$   $\chi^2/\text{NDF}: 11.3/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-0.065 \pm 0.032$   $\chi^2/\text{NDF}: 5.4/10$

Left:  $-0.092 \pm 0.023$   $\chi^2/\text{NDF}: 18.1/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-0.065 \pm 0.032$   $\chi^2/\text{NDF}: 5.4/10$   
 Out:  $-0.118 \pm 0.032$   $\chi^2/\text{NDF}: 11.3/11$   
 All:  $-0.092 \pm 0.023$   $\chi^2/\text{NDF}: 18.1/22$

reg\_asym\_dsl\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.002 \pm 0.028$   $\chi^2/\text{NDF}: 12.1/15$

Left Out:  $-0.069 \pm 0.022$   $\chi^2/\text{NDF}: 7.0/11$

Right Out:  $-0.054 \pm 0.029$   $\chi^2/\text{NDF}: 20.9/16$

Left In:  $-0.040 \pm 0.022$   $\chi^2/\text{NDF}: 16.5/10$

Left:  $-0.055 \pm 0.016$   $\chi^2/\text{NDF}: 24.3/22$

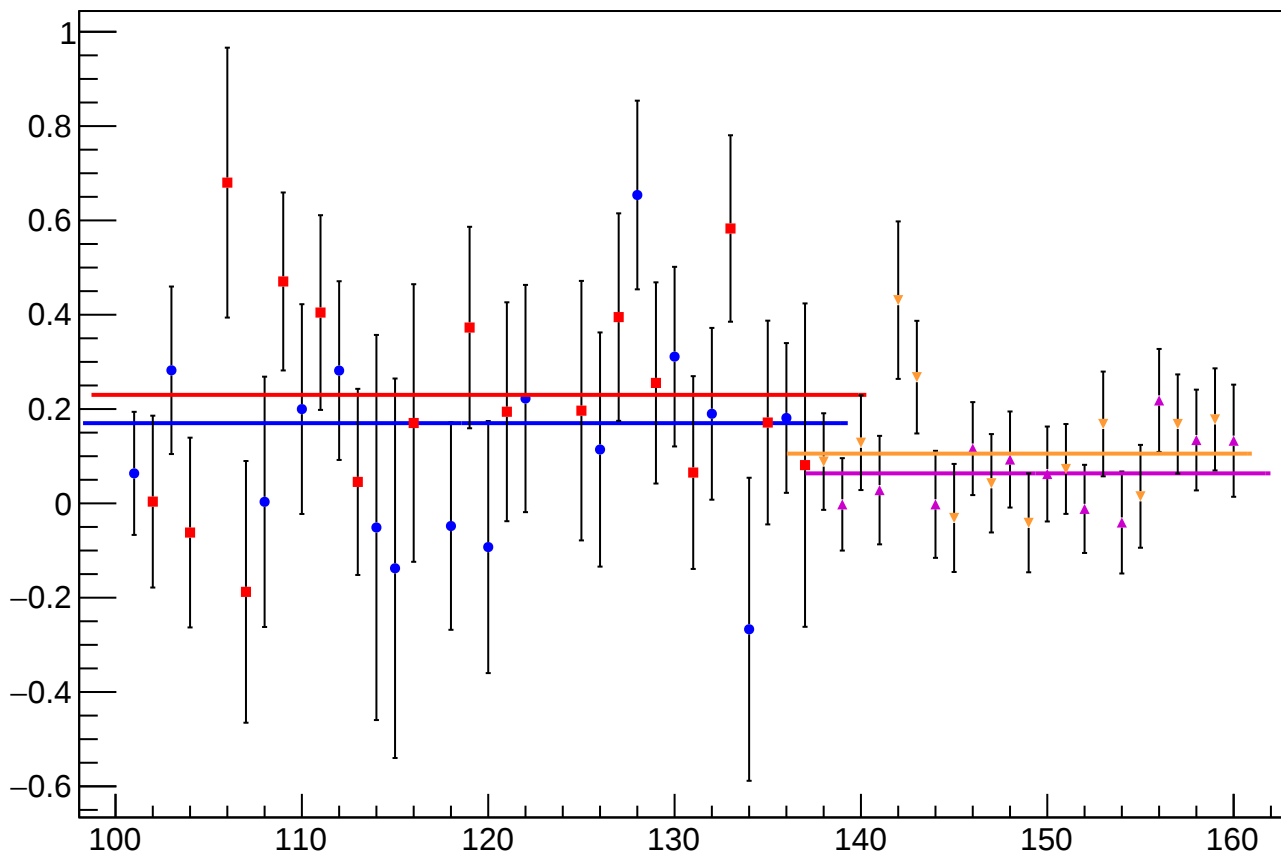
Right:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}: 34.6/32$

In:  $-0.025 \pm 0.018$   $\chi^2/\text{NDF}: 29.7/26$

Out:  $-0.064 \pm 0.017$   $\chi^2/\text{NDF}: 28.1/28$

All:  $-0.045 \pm 0.012$   $\chi^2/\text{NDF}: 60.2/55$

reg\_asym\_dsl\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $0.170 \pm 0.052$   $\chi^2/\text{NDF}: 13.0/15$

Left Out:  $0.105 \pm 0.031$   $\chi^2/\text{NDF}: 11.4/11$

Right Out:  $0.230 \pm 0.054$   $\chi^2/\text{NDF}: 16.8/16$

Left In:  $0.064 \pm 0.032$   $\chi^2/\text{NDF}: 5.6/10$

Left:  $0.085 \pm 0.022$   $\chi^2/\text{NDF}: 17.9/22$

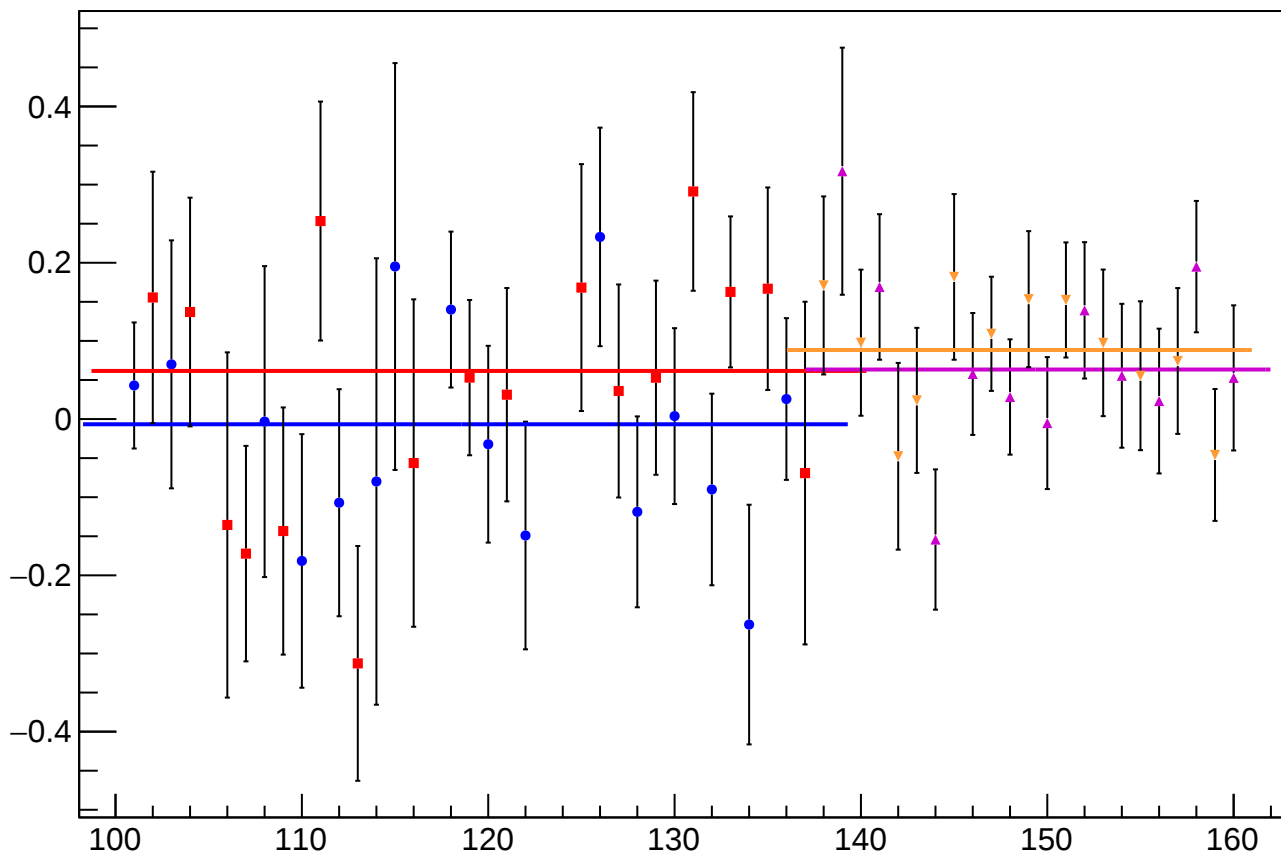
Right:  $0.199 \pm 0.038$   $\chi^2/\text{NDF}: 30.5/32$

In:  $0.092 \pm 0.027$   $\chi^2/\text{NDF}: 21.6/26$

Out:  $0.137 \pm 0.027$   $\chi^2/\text{NDF}: 32.2/28$

All:  $0.115 \pm 0.019$   $\chi^2/\text{NDF}: 55.2/55$

reg\_asym\_dsl\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.007 \pm 0.033$   $\chi^2/\text{NDF}$ : 13.2/15

Left Out:  $0.088 \pm 0.026$   $\chi^2/\text{NDF}$ : 7.2/11

Right Out:  $0.062 \pm 0.034$   $\chi^2/\text{NDF}$ : 20.0/16

Left In:  $0.063 \pm 0.027$   $\chi^2/\text{NDF}$ : 14.0/10

Left:  $0.076 \pm 0.019$   $\chi^2/\text{NDF}$ : 21.7/22

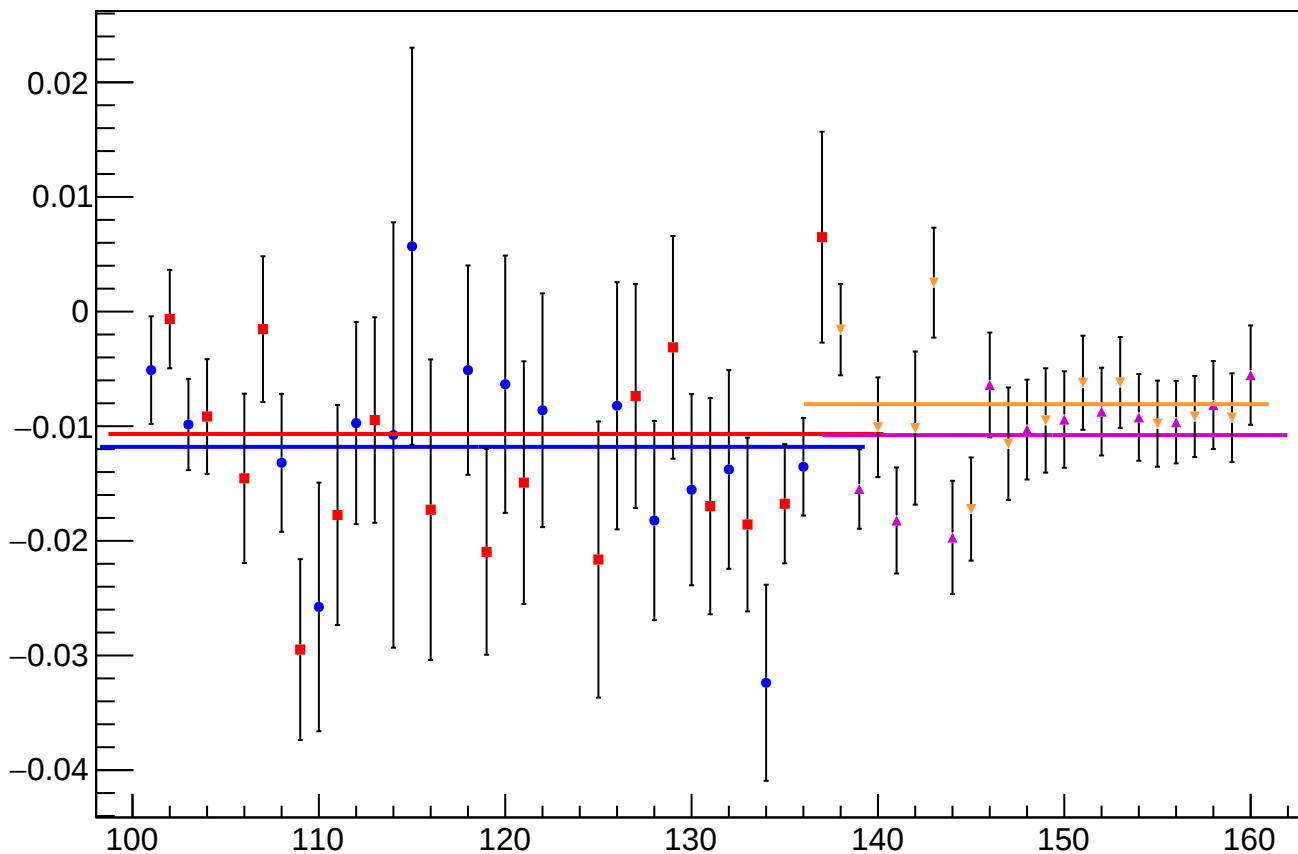
Right:  $0.026 \pm 0.023$   $\chi^2/\text{NDF}$ : 35.3/32

In:  $0.035 \pm 0.021$   $\chi^2/\text{NDF}$ : 30.0/26

Out:  $0.078 \pm 0.021$   $\chi^2/\text{NDF}$ : 27.5/28

All:  $0.057 \pm 0.015$   $\chi^2/\text{NDF}$ : 59.7/55

reg\_asym\_dsl\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.012 \pm 0.002$   $\chi^2/\text{NDF}$ : 12.8/15

Left Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}$ : 13.4/11

Right Out:  $-0.011 \pm 0.002$   $\chi^2/\text{NDF}$ : 23.8/16

Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 11.2/10

Left:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 27.0/22

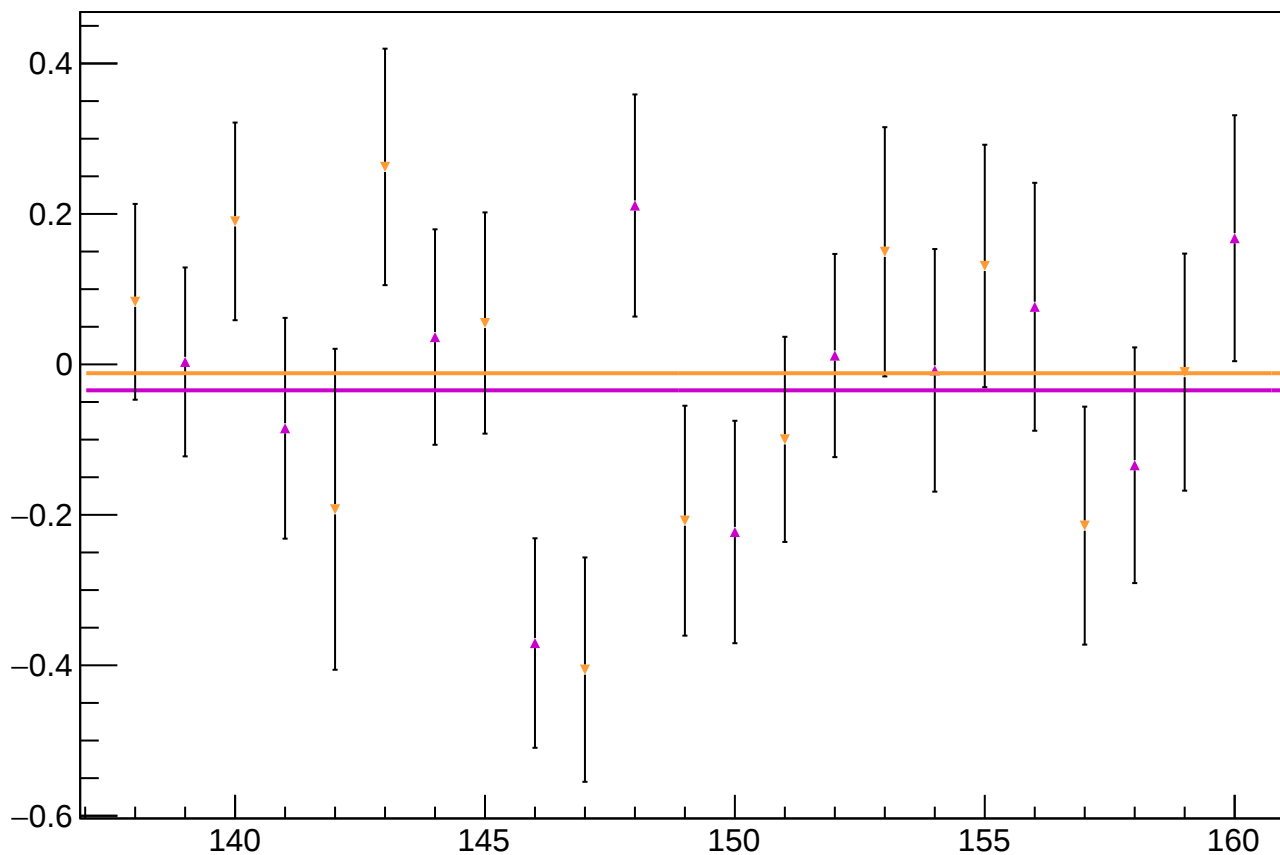
Right:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 36.8/32

In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}$ : 24.2/26

Out:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}$ : 38.6/28

All:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}$ : 65.2/55

reg\_asym\_dsr\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.012 $\pm$ 0.044  $\chi^2$ /NDF:19.3/11

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.034 $\pm$ 0.044  $\chi^2$ /NDF:13.2/10

Left: -0.023 $\pm$ 0.031  $\chi^2$ /NDF: 32.6/22

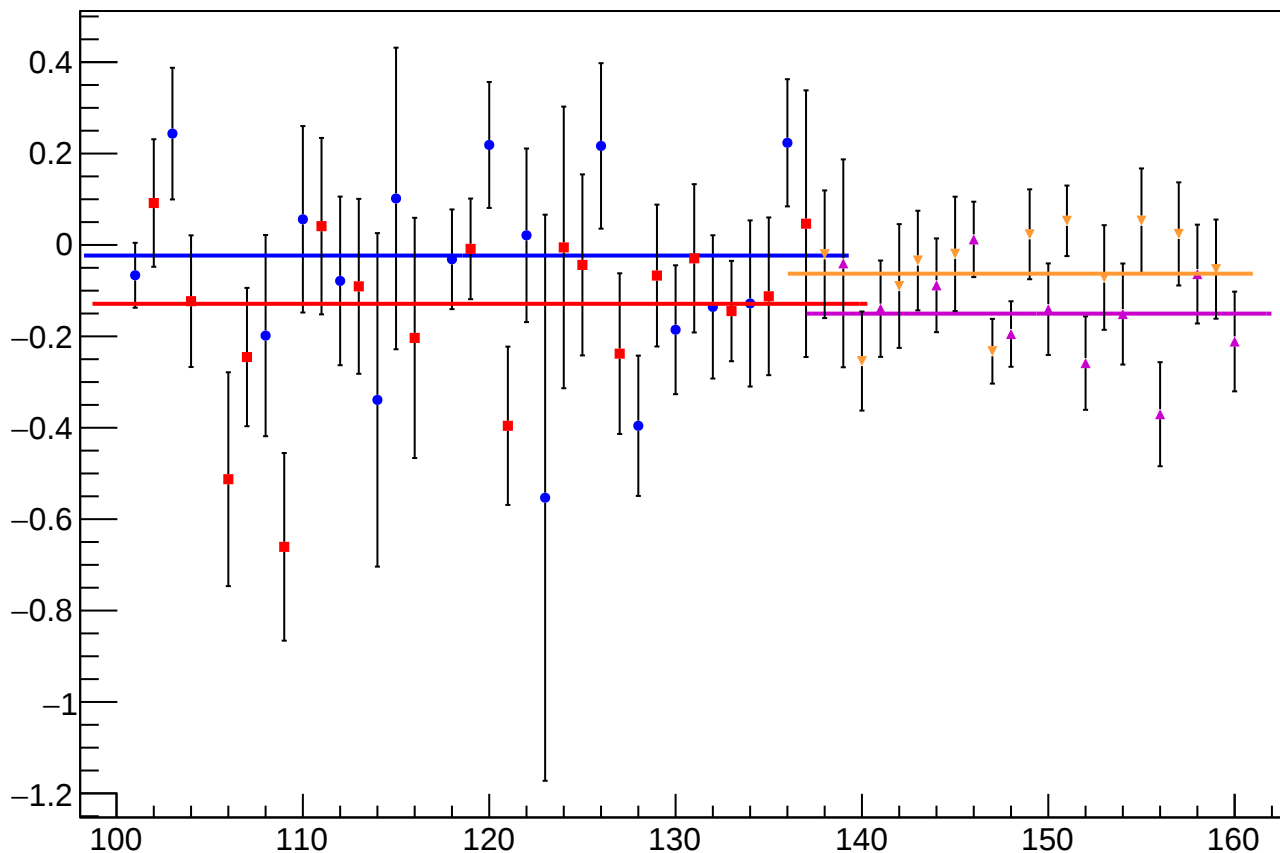
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.034 $\pm$ 0.044  $\chi^2$ /NDF:13.2/10

Out: -0.012 $\pm$ 0.044  $\chi^2$ /NDF:19.3/11

All: -0.023 $\pm$ 0.031  $\chi^2$ /NDF: 32.6/22

reg\_asym\_dsr\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.023 \pm 0.037$   $\chi^2/\text{NDF}: 22.4/16$

Left Out:  $-0.063 \pm 0.030$   $\chi^2/\text{NDF}: 13.8/11$

Right Out:  $-0.129 \pm 0.039$   $\chi^2/\text{NDF}: 18.6/17$

Left In:  $-0.150 \pm 0.031$   $\chi^2/\text{NDF}: 10.7/10$

Left:  $-0.105 \pm 0.021$   $\chi^2/\text{NDF}: 28.7/22$

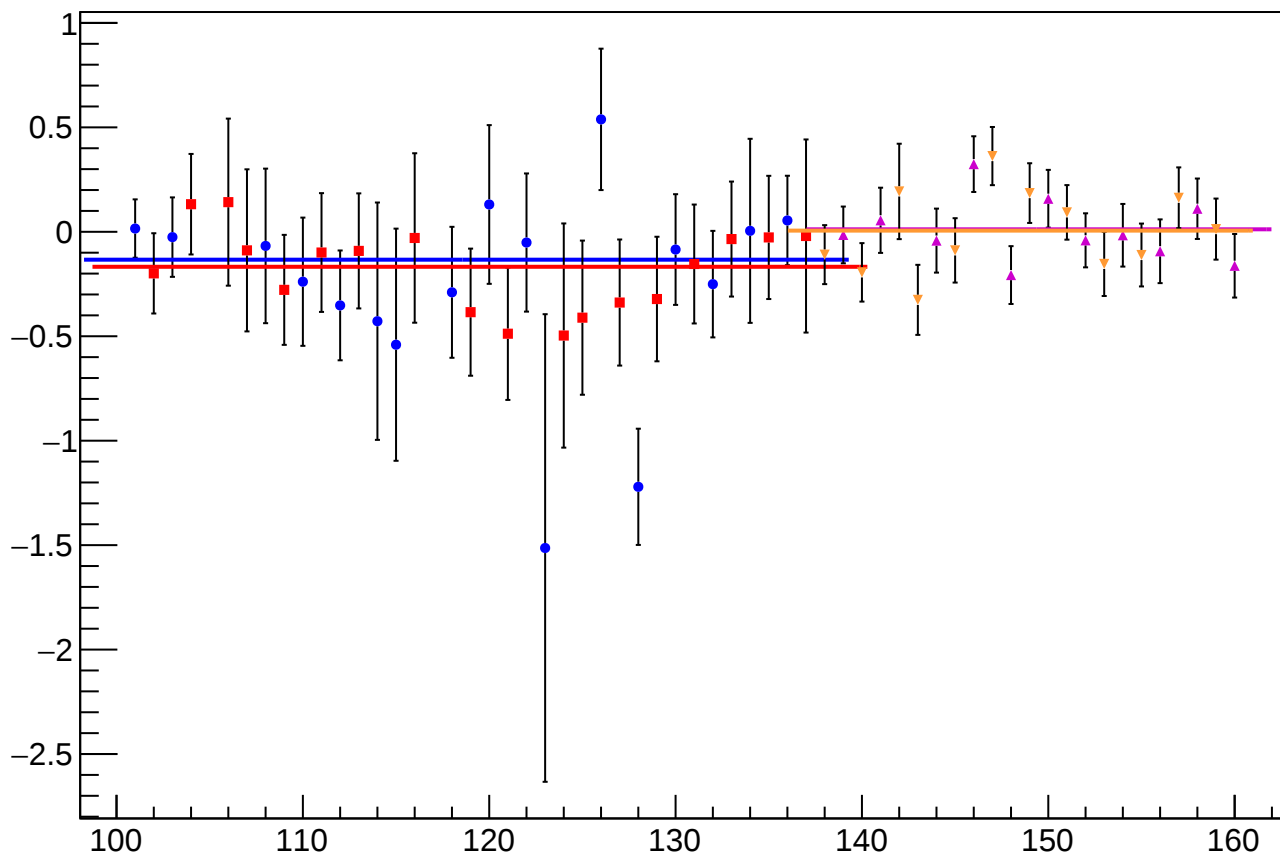
Right:  $-0.072 \pm 0.027$   $\chi^2/\text{NDF}: 44.9/34$

In:  $-0.098 \pm 0.023$   $\chi^2/\text{NDF}: 40.2/27$

Out:  $-0.087 \pm 0.024$   $\chi^2/\text{NDF}: 34.2/29$

All:  $-0.092 \pm 0.017$   $\chi^2/\text{NDF}: 74.5/57$

reg\_asym\_dsr\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-0.133 \pm 0.067$   $\chi^2/\text{NDF}$ : 25.7/16

Left Out:  $0.006 \pm 0.043$   $\chi^2/\text{NDF}$ : 19.1/11

Right Out:  $-0.167 \pm 0.071$   $\chi^2/\text{NDF}$ : 6.1/17

Left In:  $0.012 \pm 0.043$   $\chi^2/\text{NDF}$ : 11.8/10

Left:  $0.009 \pm 0.031$   $\chi^2/\text{NDF}$ : 30.9/22

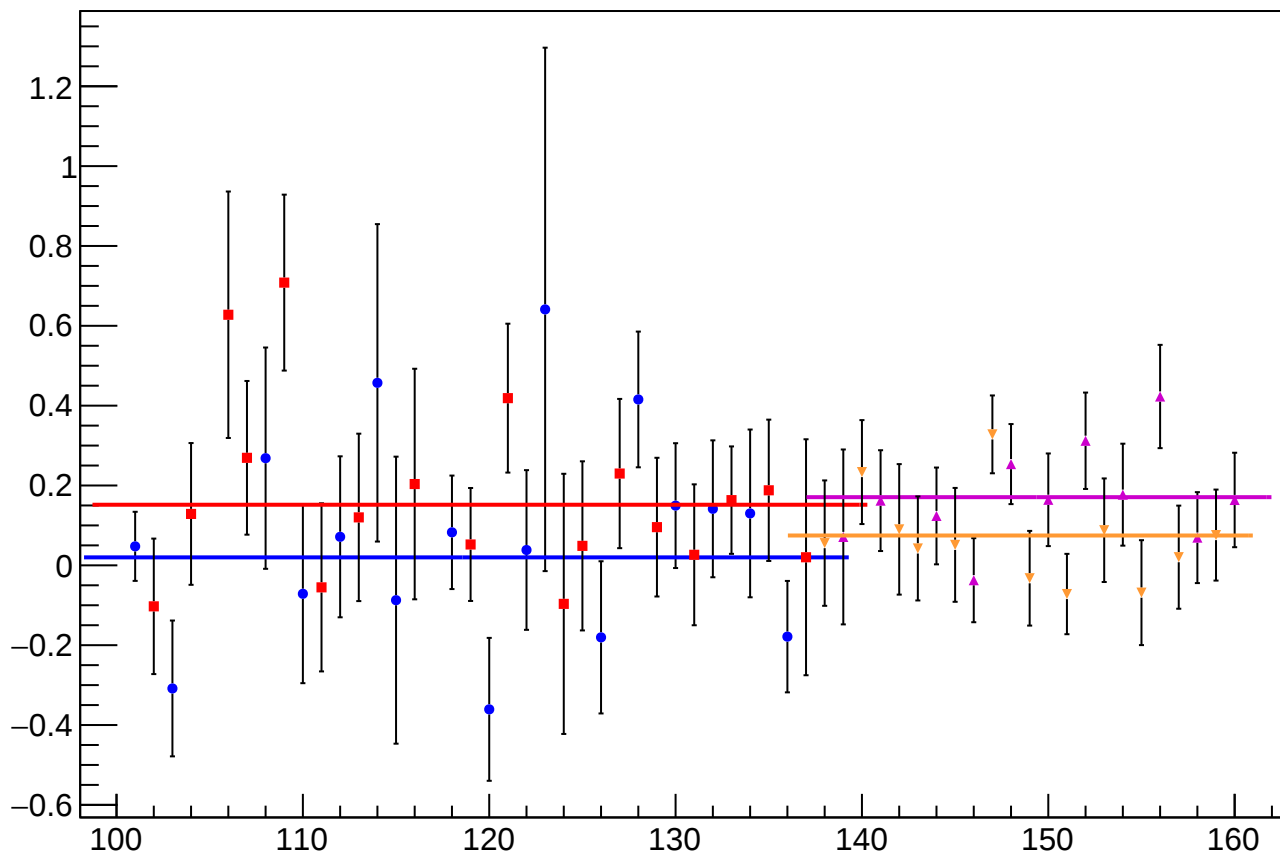
Right:  $-0.149 \pm 0.049$   $\chi^2/\text{NDF}$ : 32.0/34

In:  $-0.031 \pm 0.036$   $\chi^2/\text{NDF}$ : 40.9/27

Out:  $-0.041 \pm 0.037$   $\chi^2/\text{NDF}$ : 29.6/29

All:  $-0.036 \pm 0.026$   $\chi^2/\text{NDF}$ : 70.5/57

reg\_asym\_dsr\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.020 \pm 0.042$   $\chi^2/\text{NDF}: 21.8/16$

Left Out:  $0.075 \pm 0.036$   $\chi^2/\text{NDF}: 12.7/11$

Right Out:  $0.152 \pm 0.045$   $\chi^2/\text{NDF}: 16.8/17$

Left In:  $0.171 \pm 0.036$   $\chi^2/\text{NDF}: 10.9/10$

Left:  $0.122 \pm 0.026$   $\chi^2/\text{NDF}: 27.1/22$

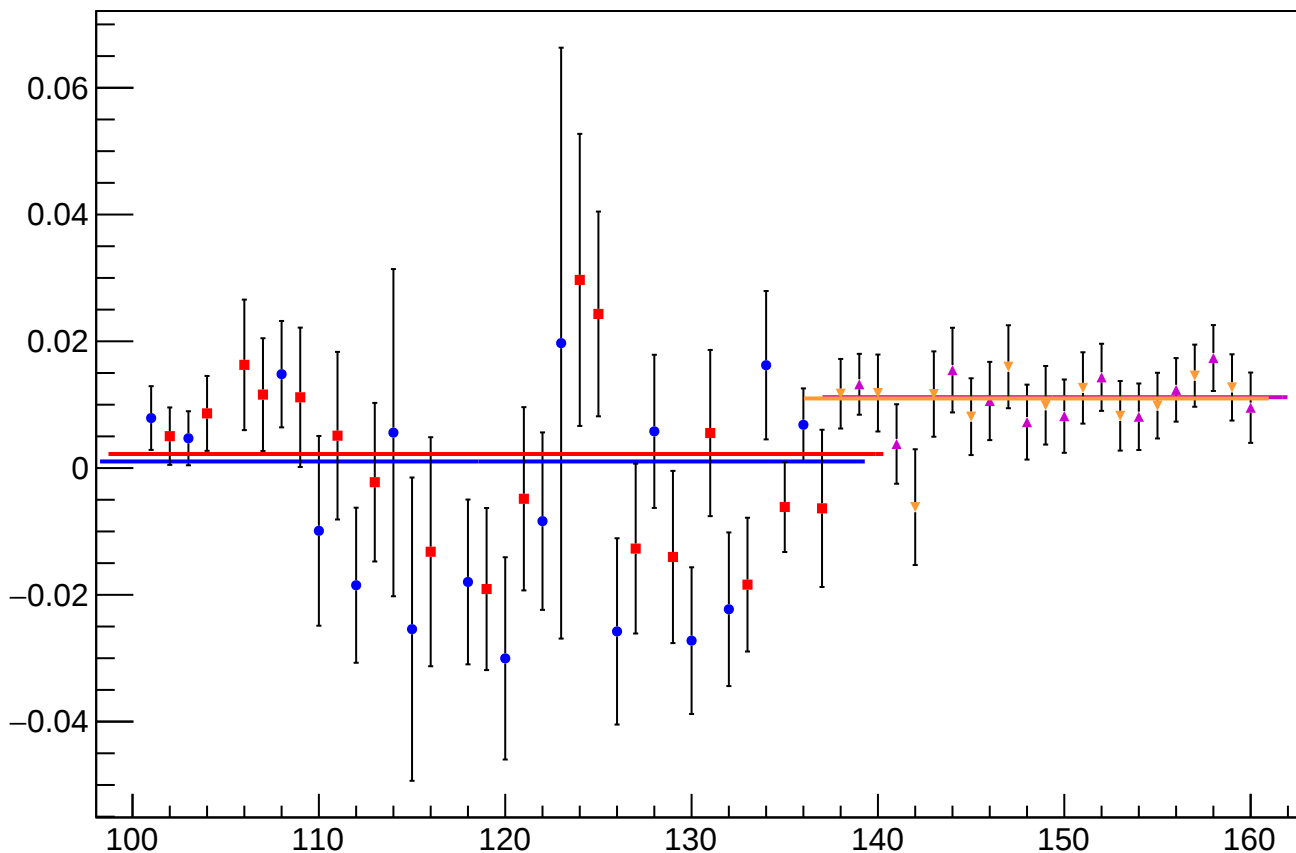
Right:  $0.081 \pm 0.031$   $\chi^2/\text{NDF}: 43.1/34$

In:  $0.107 \pm 0.028$   $\chi^2/\text{NDF}: 40.0/27$

Out:  $0.104 \pm 0.028$   $\chi^2/\text{NDF}: 31.2/29$

All:  $0.106 \pm 0.020$   $\chi^2/\text{NDF}: 71.3/57$

reg\_asym\_dsr\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.001 $\pm$ 0.002     $\chi^2/\text{NDF}$ : 32.0/16

Left Out: 0.011 $\pm$ 0.002     $\chi^2/\text{NDF}$ : 5.4/11

Right Out: 0.002 $\pm$ 0.002     $\chi^2/\text{NDF}$ : 20.8/17

Left In: 0.011 $\pm$ 0.002     $\chi^2/\text{NDF}$ : 4.9/10

Left: 0.011 $\pm$ 0.001     $\chi^2/\text{NDF}$ : 10.4/22

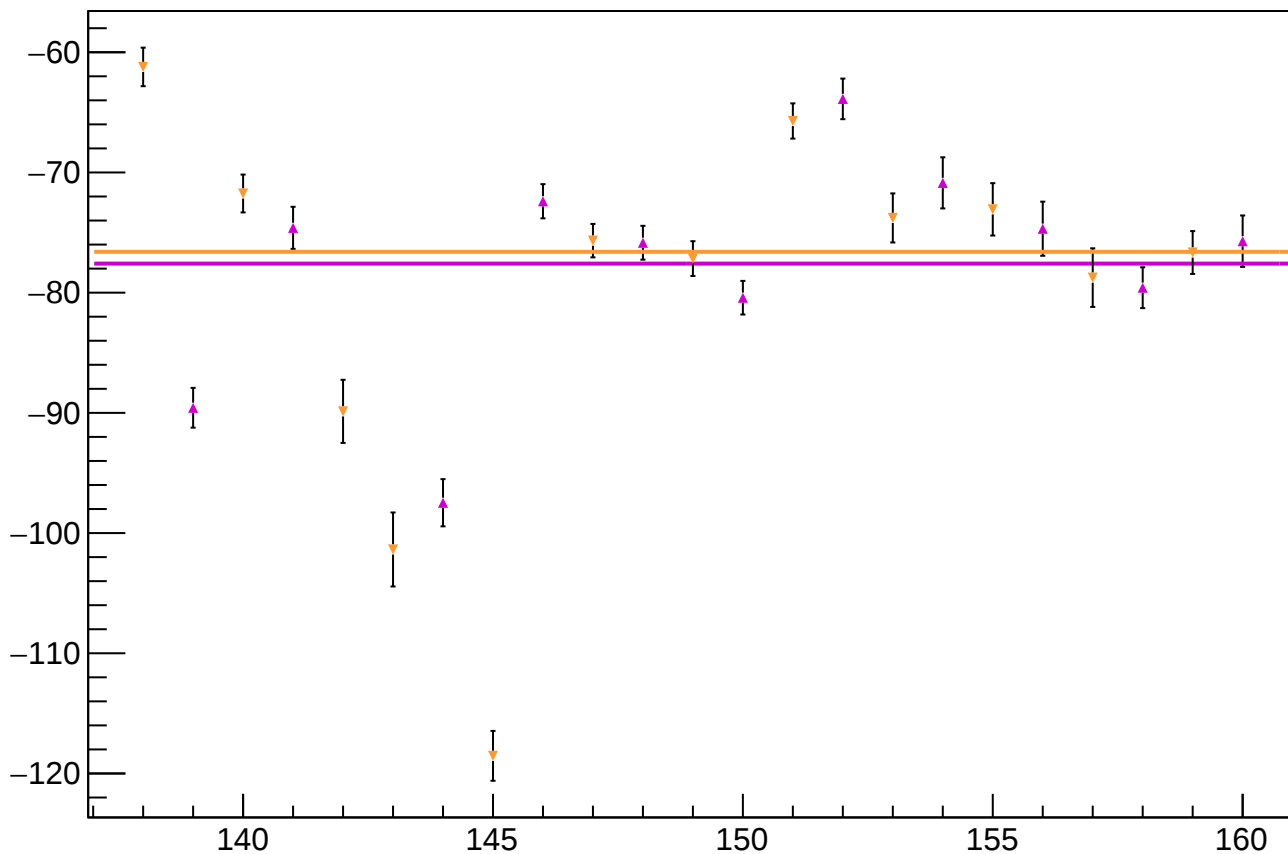
Right: 0.002 $\pm$ 0.002     $\chi^2/\text{NDF}$ : 53.0/34

In: 0.008 $\pm$ 0.001     $\chi^2/\text{NDF}$ : 50.2/27

Out: 0.008 $\pm$ 0.001     $\chi^2/\text{NDF}$ : 35.8/29

All: 0.008 $\pm$ 0.001     $\chi^2/\text{NDF}$ : 86.0/57

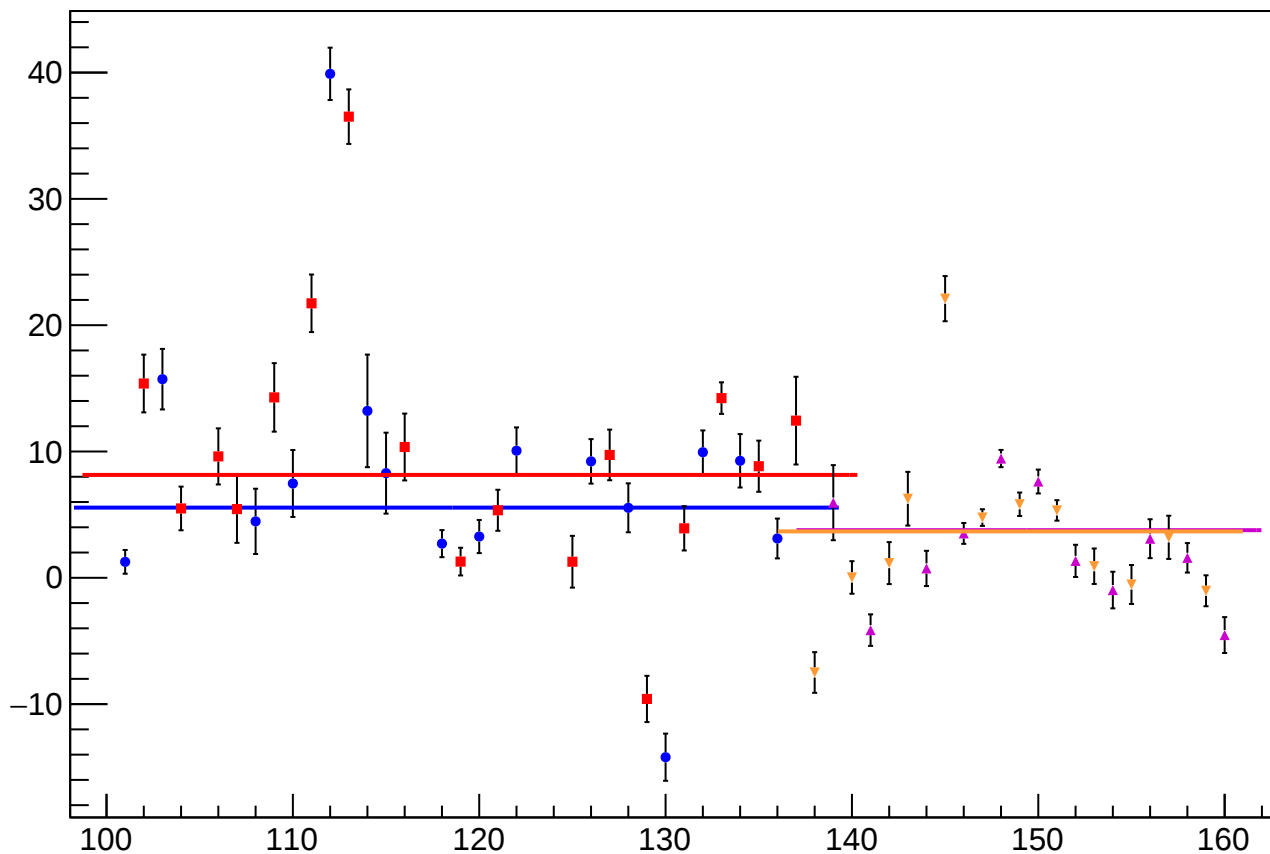
reg\_asym\_us\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-76.602 \pm 0.522$   $\chi^2/\text{NDF}: 661.2/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-77.583 \pm 0.513$   $\chi^2/\text{NDF}: 256.6/10$

Left:  $-77.100 \pm 0.366$   $\chi^2/\text{NDF}: 919.7/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-77.583 \pm 0.513$   $\chi^2/\text{NDF}: 256.6/10$   
 Out:  $-76.602 \pm 0.522$   $\chi^2/\text{NDF}: 661.2/11$   
 All:  $-77.100 \pm 0.366$   $\chi^2/\text{NDF}: 919.7/22$

reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 5.557 $\pm$ 0.424  $\chi^2$ /NDF: 462.0/15

Left Out: 3.676 $\pm$ 0.337  $\chi^2$ /NDF:204.4/11

Right Out: 8.146 $\pm$ 0.454  $\chi^2$ /NDF: 406.8/16

Left In: 3.771 $\pm$ 0.338  $\chi^2$ /NDF:183.4/10

Left: 3.723 $\pm$ 0.239  $\chi^2$ /NDF: 387.9/22

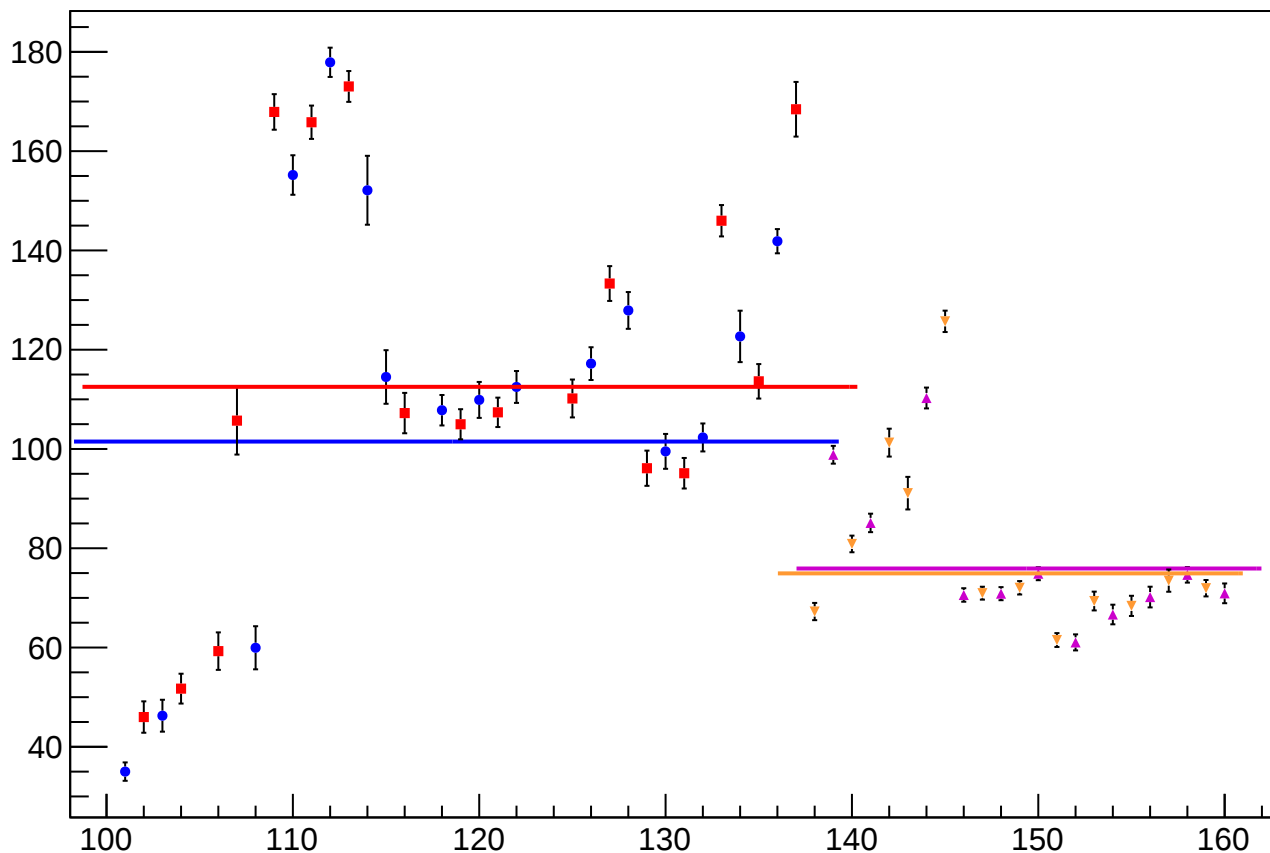
Right: 6.763 $\pm$ 0.310  $\chi^2$ /NDF: 886.1/32

In: 4.465 $\pm$ 0.264  $\chi^2$ /NDF:656.3/26

Out: 5.262 $\pm$ 0.271  $\chi^2$ /NDF:673.7/28

All: 4.854 $\pm$ 0.189  $\chi^2$ /NDF: 1334.4/55

reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 101.496 $\pm$ 0.808  $\chi^2$ /NDF: 2973.0/15

Left Out: 74.938 $\pm$ 0.509  $\chi^2$ /NDF:828.7/11

Right Out: 112.521 $\pm$ 0.843  $\chi^2$ /NDF: 2236.9/16

Left In: 75.920 $\pm$ 0.497  $\chi^2$ /NDF:607.3/10

Left: 75.441 $\pm$ 0.355  $\chi^2$ /NDF: 1438.0/22

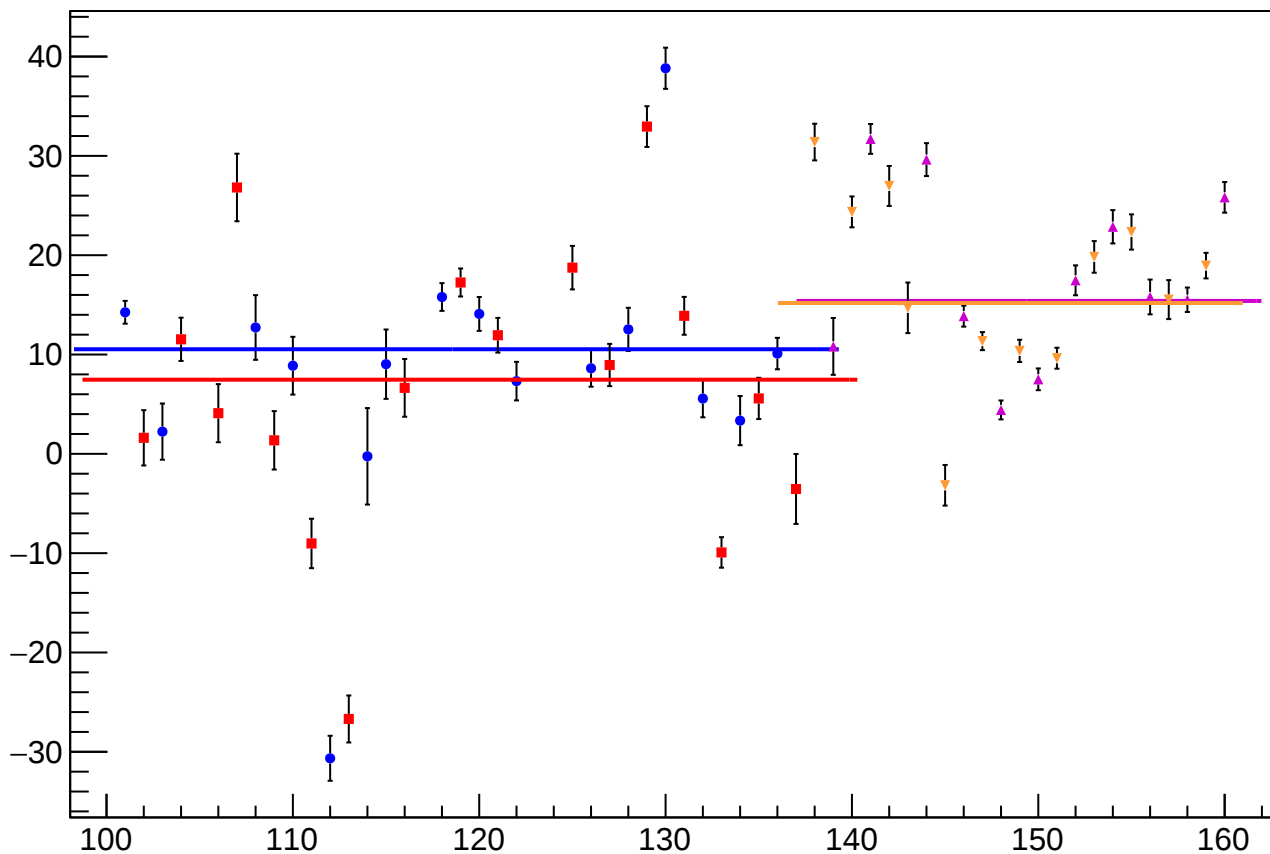
Right: 106.775 $\pm$ 0.583  $\chi^2$ /NDF: 5299.0/32

In: 82.930 $\pm$ 0.423  $\chi^2$ /NDF:4307.2/26

Out: 84.974 $\pm$ 0.436  $\chi^2$ /NDF:4521.8/28

All: 83.922 $\pm$ 0.304  $\chi^2$ /NDF: 8840.3/55

reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 10.532 $\pm$ 0.493  $\chi^2$ /NDF: 580.3/15

Left Out: 15.187 $\pm$ 0.414  $\chi^2$ /NDF: 324.1/11

Right Out: 7.466 $\pm$ 0.525  $\chi^2$ /NDF: 685.0/16

Left In: 15.396 $\pm$ 0.410  $\chi^2$ /NDF: 448.2/10

Left: 15.293 $\pm$ 0.291  $\chi^2$ /NDF: 772.5/22

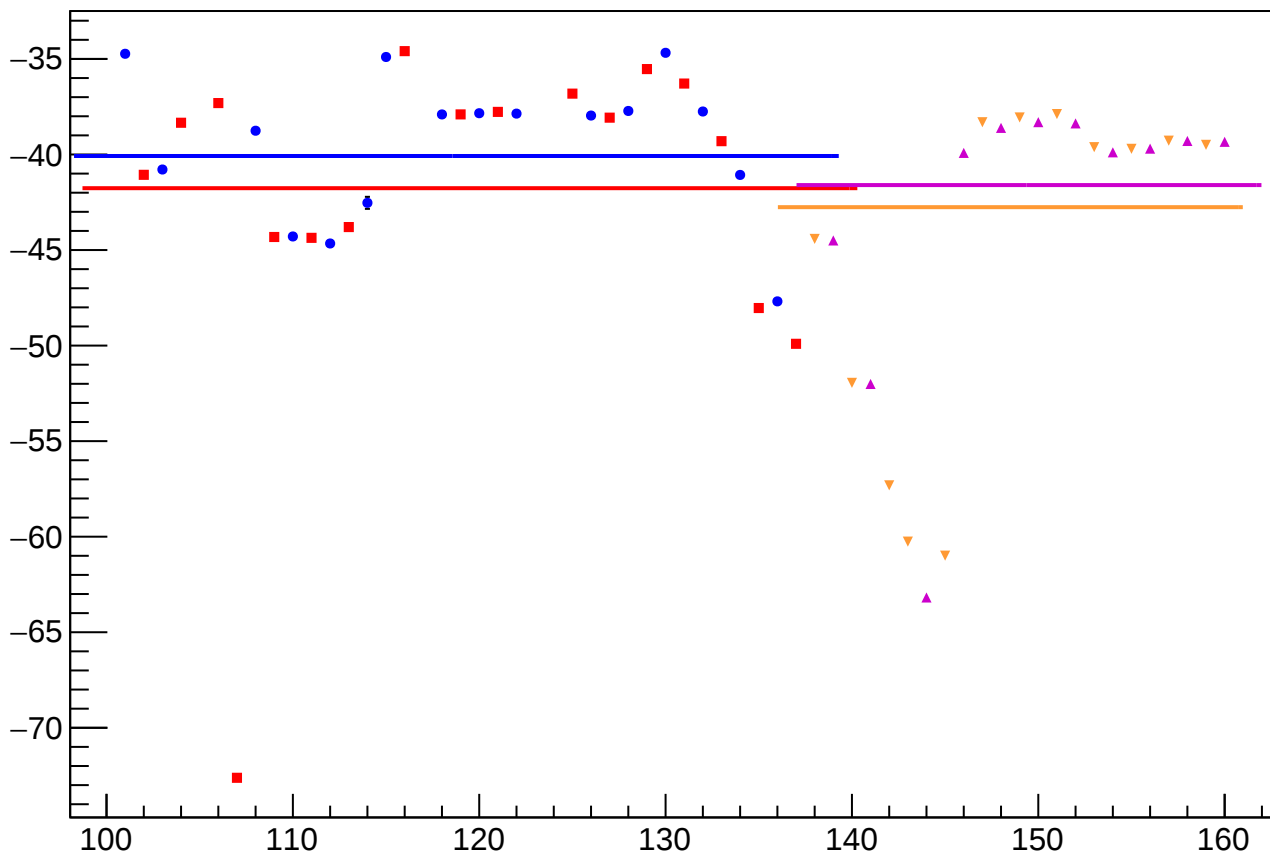
Right: 9.096 $\pm$ 0.359  $\chi^2$ /NDF: 1283.4/32

In: 13.409 $\pm$ 0.315  $\chi^2$ /NDF: 1086.2/26

Out: 12.225 $\pm$ 0.325  $\chi^2$ /NDF: 1142.4/28

All: 12.836 $\pm$ 0.226  $\chi^2$ /NDF: 2235.4/55

reg\_asym\_us\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -40.079 $\pm$ 0.028  $\chi^2$ /NDF: 25147.0/15

Left Out: -42.757 $\pm$ 0.021  $\chi^2$ /NDF:123462.3/11

Right Out: -41.764 $\pm$ 0.029  $\chi^2$ /NDF: 60249.3/16

Left In: -41.601 $\pm$ 0.020  $\chi^2$ /NDF:89649.0/10

Left: -42.153 $\pm$ 0.014  $\chi^2$ /NDF: 214771.1/22

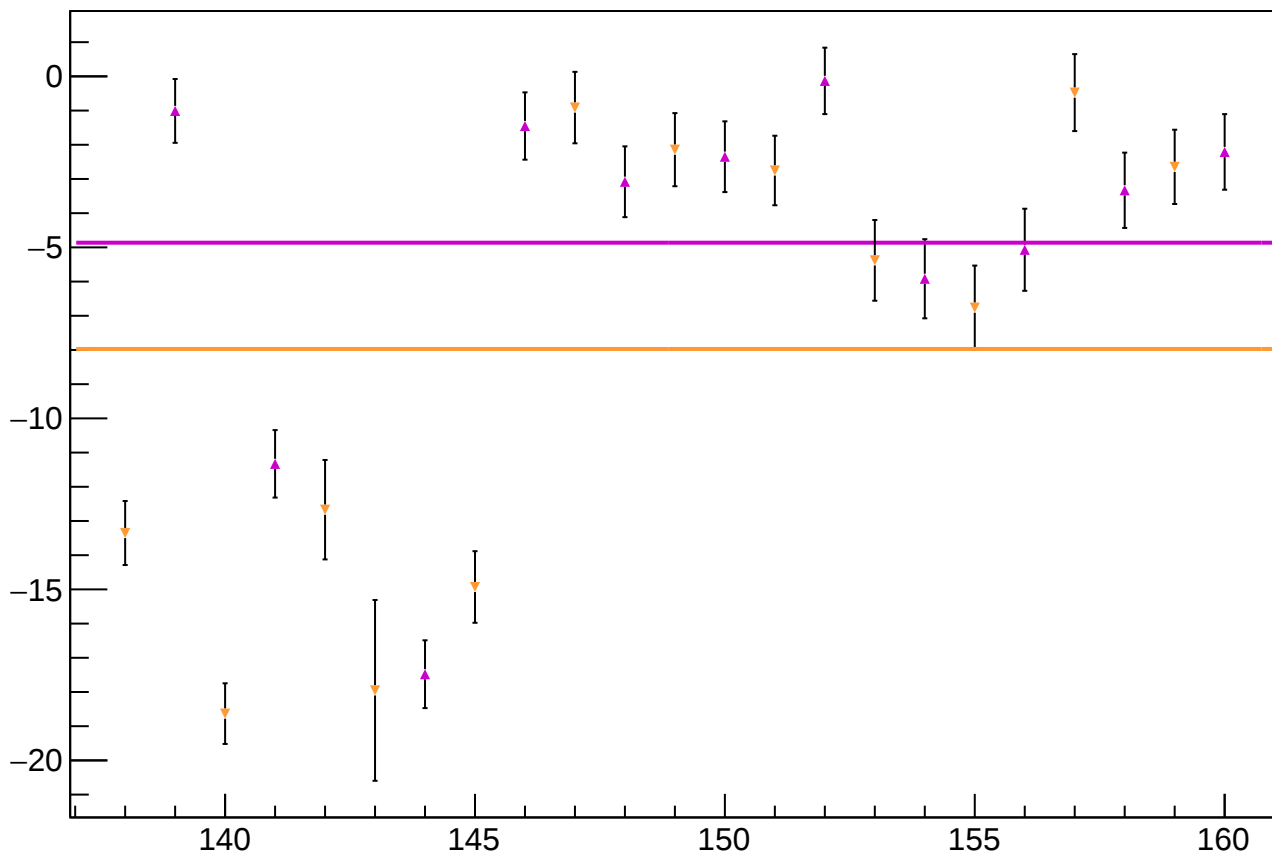
Right: -40.903 $\pm$ 0.020  $\chi^2$ /NDF: 87139.1/32

In: -41.105 $\pm$ 0.016  $\chi^2$ /NDF:116756.8/26

Out: -42.424 $\pm$ 0.017  $\chi^2$ /NDF:184499.2/28

All: -41.740 $\pm$ 0.012  $\chi^2$ /NDF: 304483.7/55

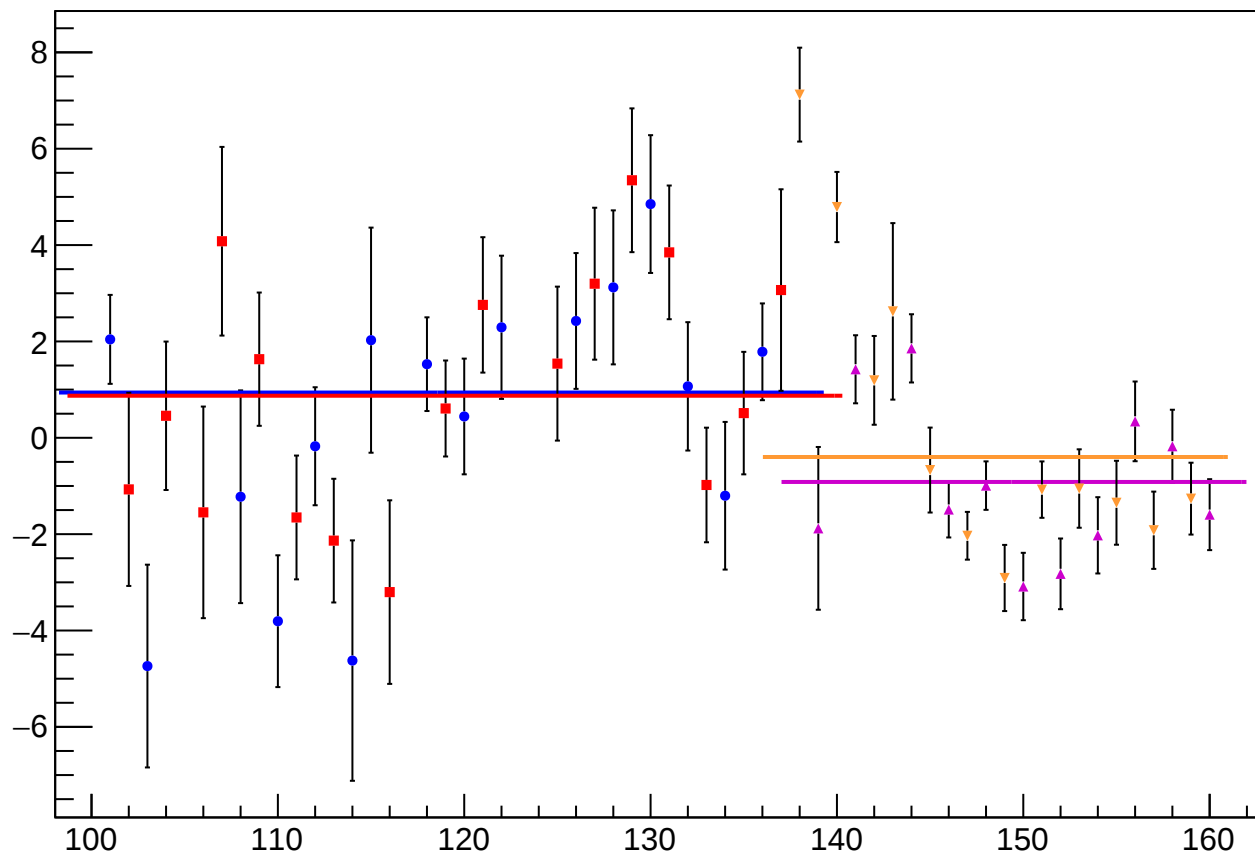
reg\_asym\_us\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-7.970 \pm 0.321$   $\chi^2/\text{NDF}: 422.5/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-4.863 \pm 0.312$   $\chi^2/\text{NDF}: 275.2/10$

Left:  $-6.376 \pm 0.224$   $\chi^2/\text{NDF}: 745.9/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-4.863 \pm 0.312$   $\chi^2/\text{NDF}: 275.2/10$   
 Out:  $-7.970 \pm 0.321$   $\chi^2/\text{NDF}: 422.5/11$   
 All:  $-6.376 \pm 0.224$   $\chi^2/\text{NDF}: 745.9/22$

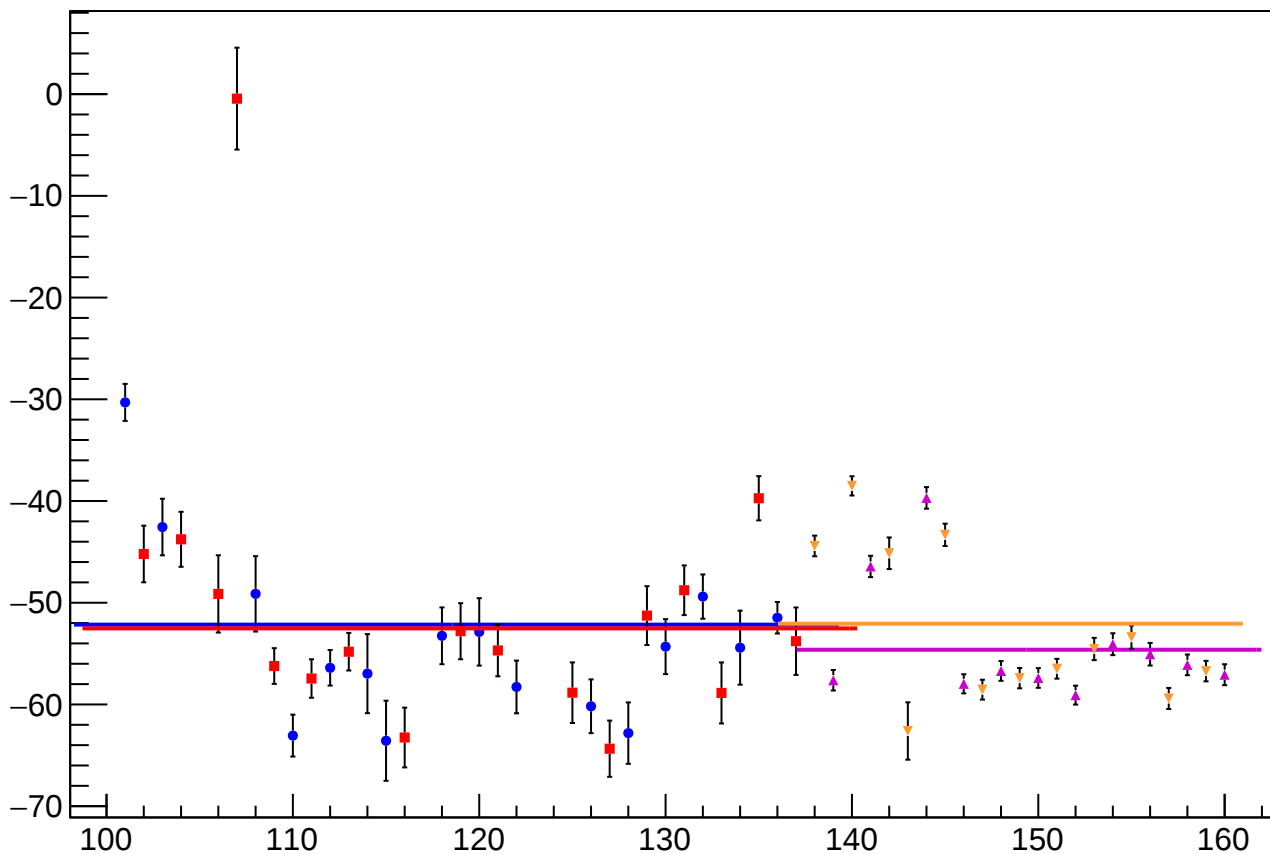
reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.939 \pm 0.339$   $\chi^2/\text{NDF}: 42.2/15$   
 Left Out:  $-0.399 \pm 0.218$   $\chi^2/\text{NDF}: 148.4/11$   
 Right Out:  $0.873 \pm 0.354$   $\chi^2/\text{NDF}: 40.6/16$   
 Left In:  $-0.917 \pm 0.214$   $\chi^2/\text{NDF}: 50.1/10$

Left:  $-0.663 \pm 0.153$   $\chi^2/\text{NDF}: 201.4/22$   
 Right:  $0.908 \pm 0.245$   $\chi^2/\text{NDF}: 82.8/32$   
 In:  $-0.387 \pm 0.181$   $\chi^2/\text{NDF}: 113.8/26$   
 Out:  $-0.048 \pm 0.186$   $\chi^2/\text{NDF}: 198.3/28$   
 All:  $-0.222 \pm 0.130$   $\chi^2/\text{NDF}: 313.8/55$

reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-52.154 \pm 0.613$   $\chi^2/\text{NDF}$ : 231.1/15

Left Out:  $-52.060 \pm 0.315$   $\chi^2/\text{NDF}$ : 531.3/11

Right Out:  $-52.523 \pm 0.618$   $\chi^2/\text{NDF}$ : 217.7/16

Left In:  $-54.619 \pm 0.305$   $\chi^2/\text{NDF}$ : 324.8/10

Left:  $-53.383 \pm 0.219$   $\chi^2/\text{NDF}$ : 890.2/22

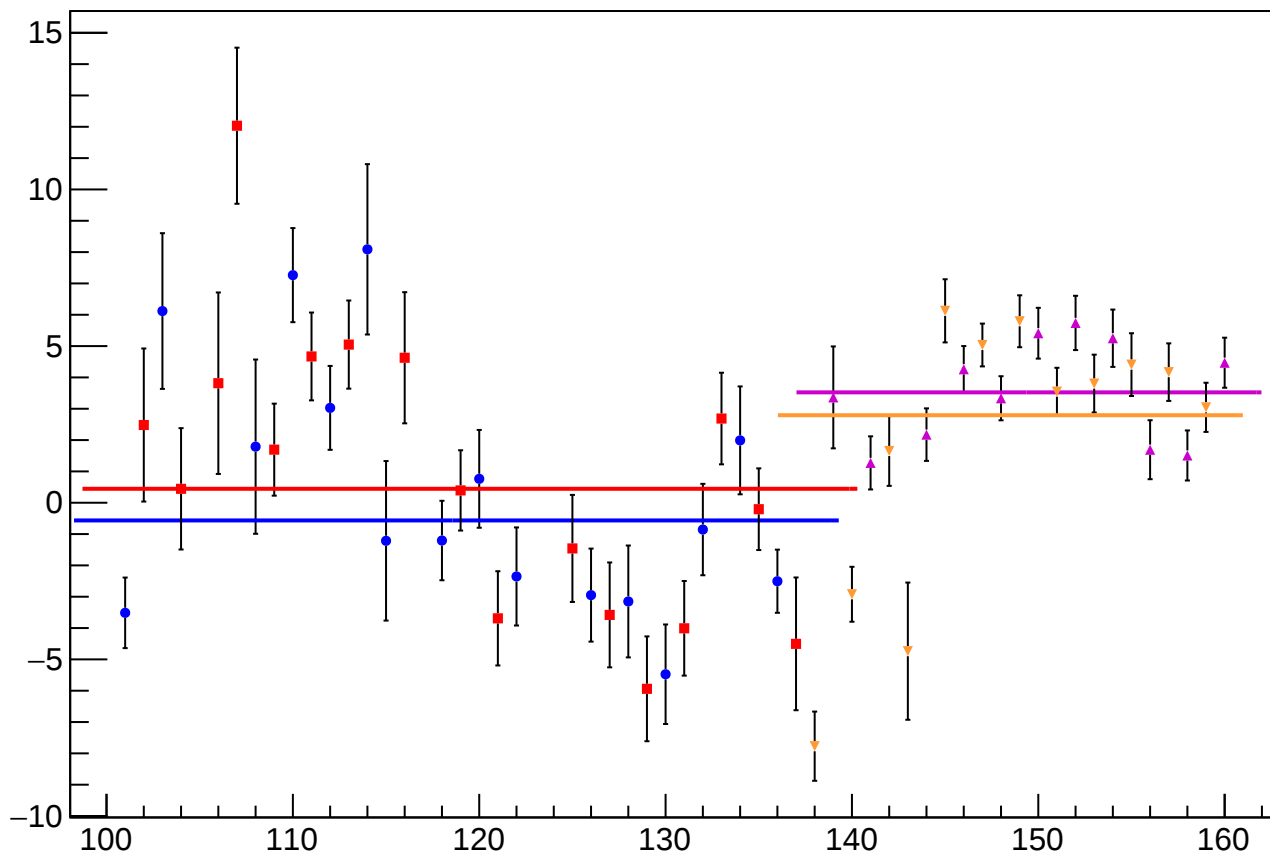
Right:  $-52.337 \pm 0.435$   $\chi^2/\text{NDF}$ : 449.0/32

In:  $-54.131 \pm 0.273$   $\chi^2/\text{NDF}$ : 568.8/26

Out:  $-52.155 \pm 0.281$   $\chi^2/\text{NDF}$ : 749.5/28

All:  $-53.171 \pm 0.196$   $\chi^2/\text{NDF}$ : 1343.7/55

reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.565 \pm 0.384$   $\chi^2/\text{NDF}$ : 81.8/15

Left Out:  $2.794 \pm 0.263$   $\chi^2/\text{NDF}$ : 188.7/11

Right Out:  $0.445 \pm 0.400$   $\chi^2/\text{NDF}$ : 94.1/16

Left In:  $3.523 \pm 0.255$   $\chi^2/\text{NDF}$ : 37.8/10

Left:  $3.170 \pm 0.183$   $\chi^2/\text{NDF}$ : 230.5/22

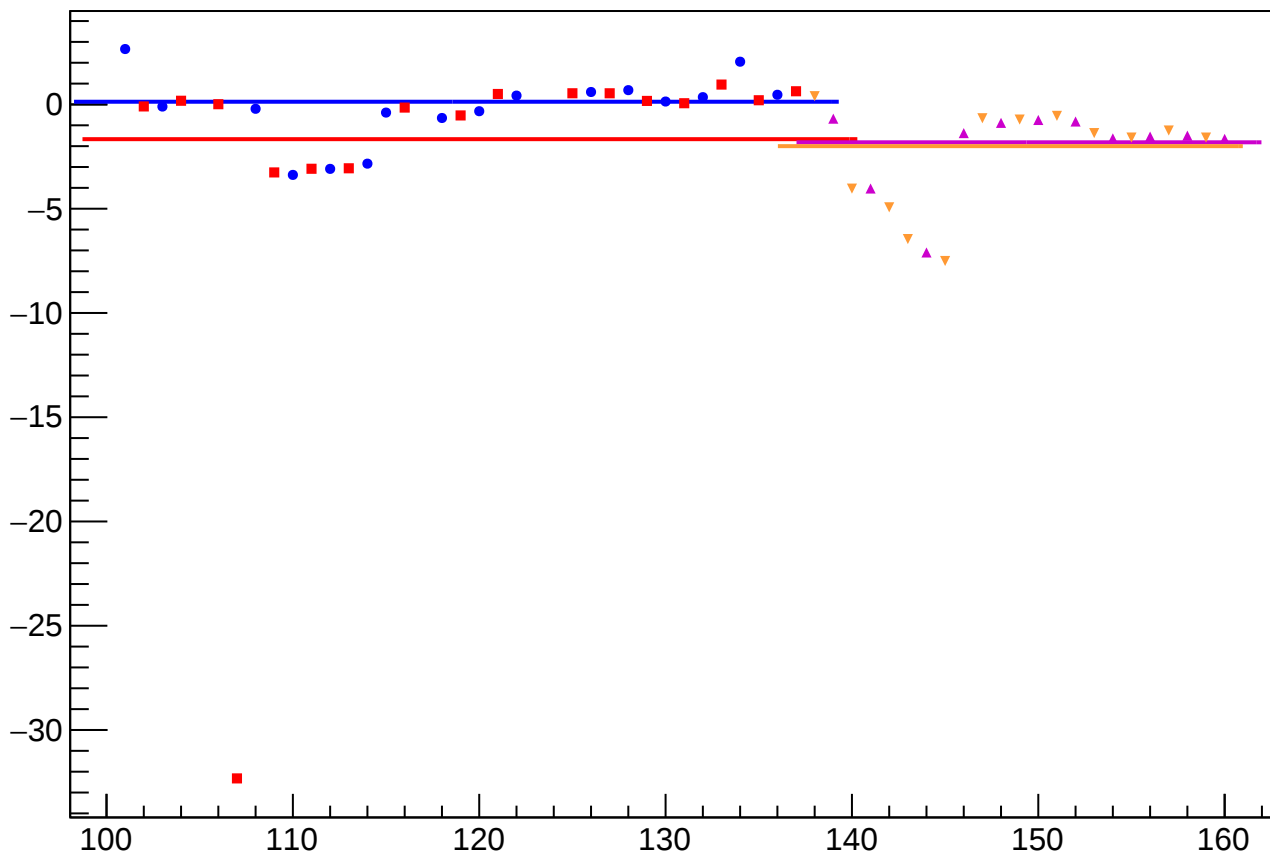
Right:  $-0.080 \pm 0.277$   $\chi^2/\text{NDF}$ : 179.3/32

In:  $2.272 \pm 0.213$   $\chi^2/\text{NDF}$ : 198.1/26

Out:  $2.084 \pm 0.220$   $\chi^2/\text{NDF}$ : 306.9/28

All:  $2.181 \pm 0.153$   $\chi^2/\text{NDF}$ : 505.4/55

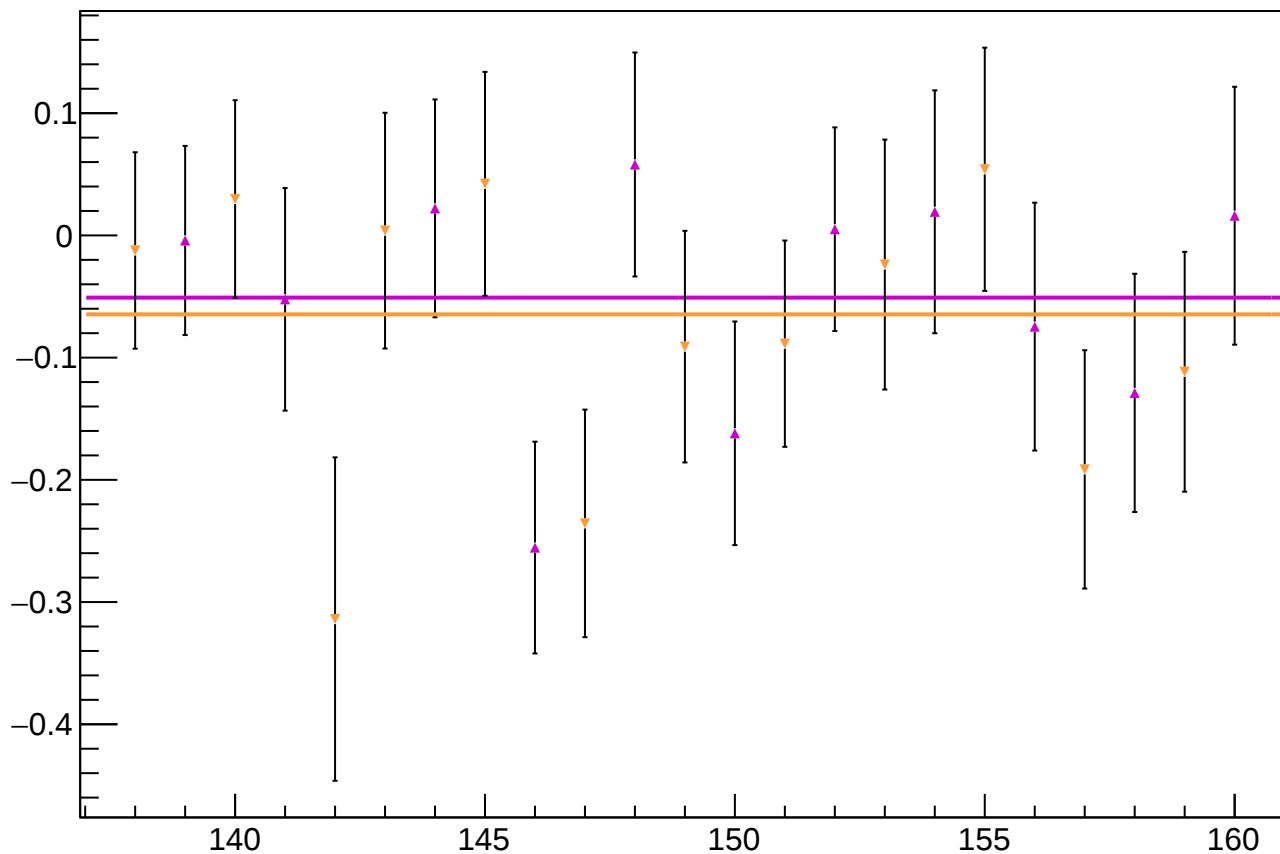
reg\_asym\_us\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.130 \pm 0.022$   $\chi^2/\text{NDF}: 5232.9/15$   
 Left Out:  $-2.000 \pm 0.012$   $\chi^2/\text{NDF}: 29987.9/11$   
 Right Out:  $-1.665 \pm 0.022$   $\chi^2/\text{NDF}: 77602.8/16$   
 Left In:  $-1.815 \pm 0.012$   $\chi^2/\text{NDF}: 18937.3/10$

Left:  $-1.904 \pm 0.009$   $\chi^2/\text{NDF}: 49041.8/22$   
 Right:  $-0.752 \pm 0.015$   $\chi^2/\text{NDF}: 86255.5/32$   
 In:  $-1.363 \pm 0.010$   $\chi^2/\text{NDF}: 30445.7/26$   
 Out:  $-1.919 \pm 0.011$   $\chi^2/\text{NDF}: 107768.5/28$   
 All:  $-1.631 \pm 0.007$   $\chi^2/\text{NDF}: 139598.3/55$

reg\_asym\_ds\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.065 $\pm$ 0.027  $\chi^2$ /NDF:14.2/11

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.051 $\pm$ 0.027  $\chi^2$ /NDF:11.5/10

Left: -0.058 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/22

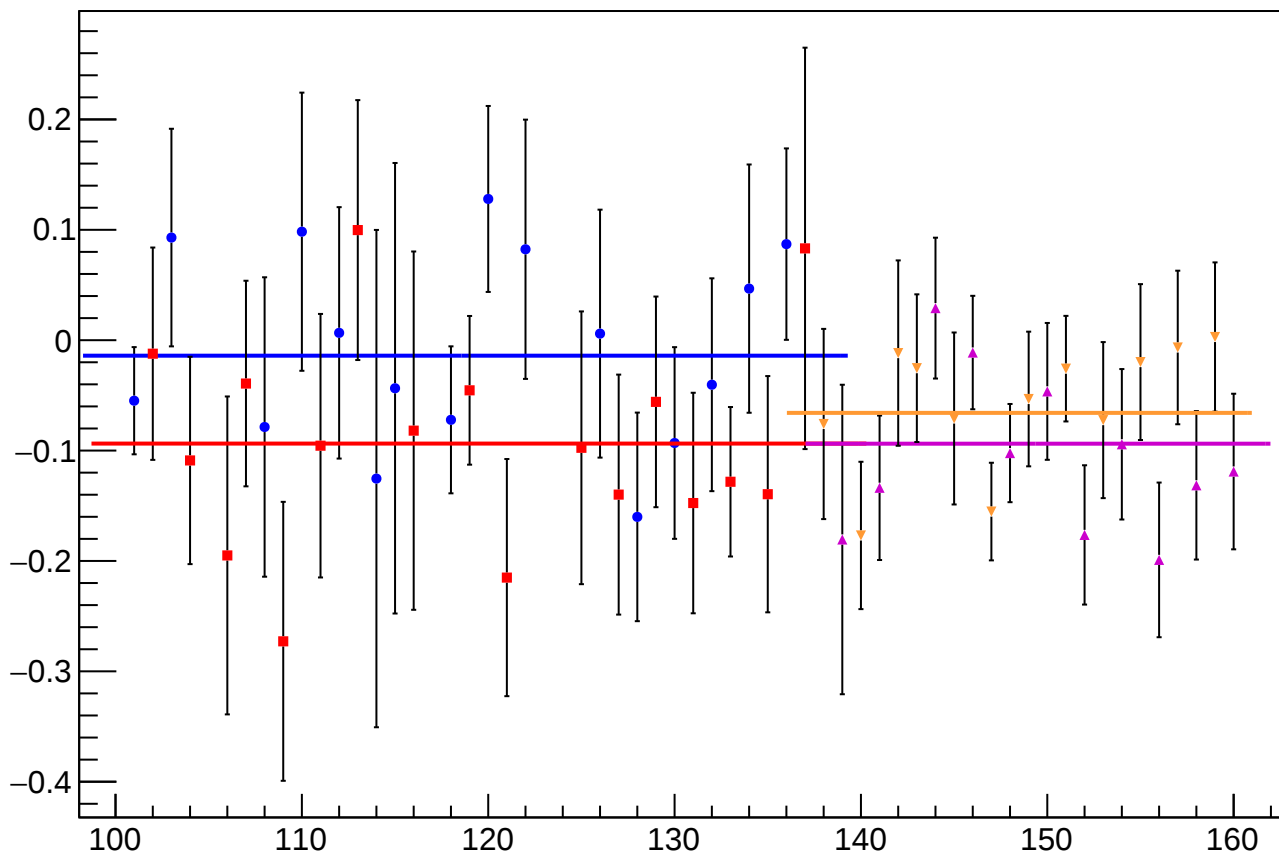
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: -0.051 $\pm$ 0.027  $\chi^2$ /NDF:11.5/10

Out: -0.065 $\pm$ 0.027  $\chi^2$ /NDF:14.2/11

All: -0.058 $\pm$ 0.019  $\chi^2$ /NDF: 25.9/22

reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.014 \pm 0.023$   $\chi^2/\text{NDF}: 12.5/15$

Left Out:  $-0.066 \pm 0.018$   $\chi^2/\text{NDF}: 10.6/11$

Right Out:  $-0.094 \pm 0.025$   $\chi^2/\text{NDF}: 10.1/16$

Left In:  $-0.094 \pm 0.019$   $\chi^2/\text{NDF}: 12.1/10$

Left:  $-0.079 \pm 0.013$   $\chi^2/\text{NDF}: 23.8/22$

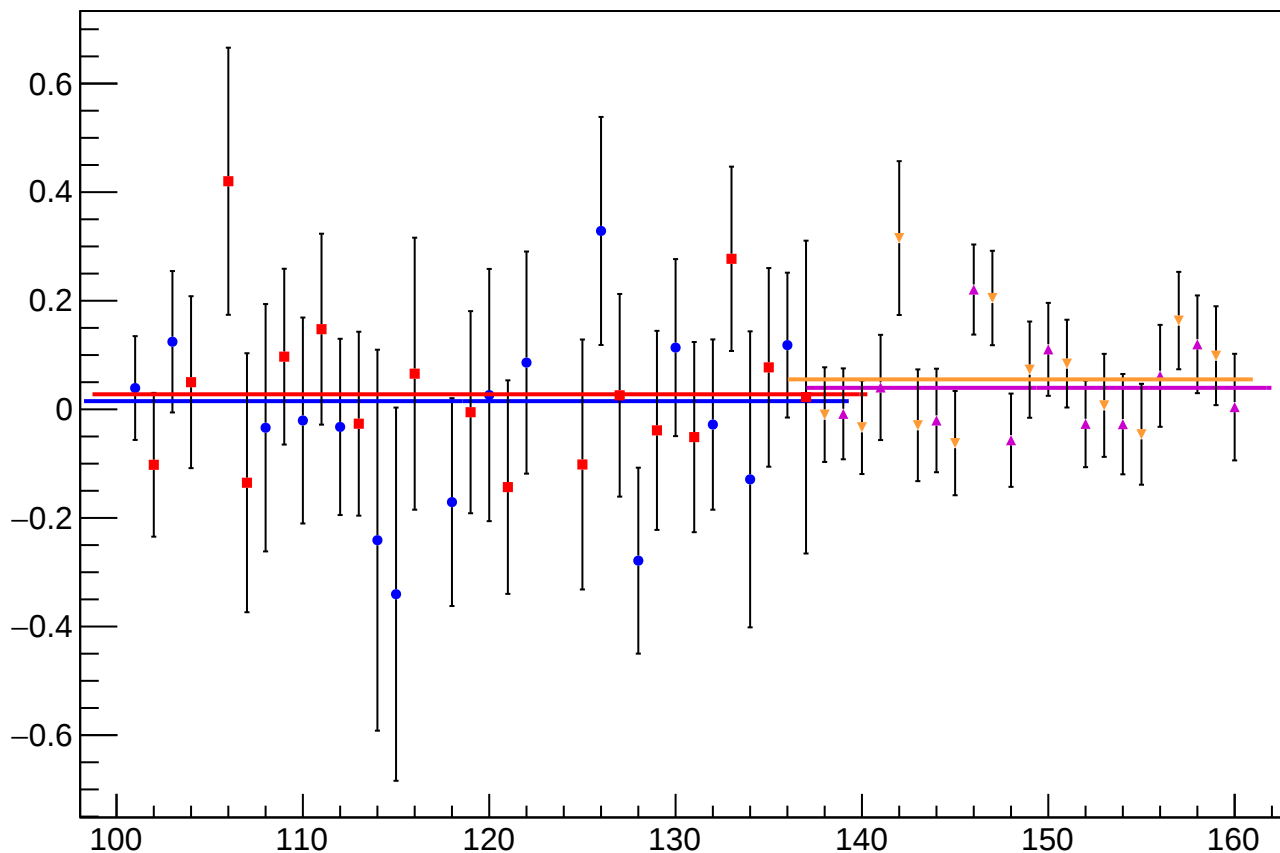
Right:  $-0.051 \pm 0.017$   $\chi^2/\text{NDF}: 28.1/32$

In:  $-0.062 \pm 0.015$   $\chi^2/\text{NDF}: 31.6/26$

Out:  $-0.076 \pm 0.015$   $\chi^2/\text{NDF}: 21.5/28$

All:  $-0.069 \pm 0.010$   $\chi^2/\text{NDF}: 53.5/55$

reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.015 $\pm$ 0.043  $\chi^2$ /NDF: 10.1/15

Left Out: 0.055 $\pm$ 0.027  $\chi^2$ /NDF:13.4/11

Right Out: 0.028 $\pm$ 0.045  $\chi^2$ /NDF: 8.4/16

Left In: 0.040 $\pm$ 0.027  $\chi^2$ /NDF:9.6/10

Left: 0.047 $\pm$ 0.019  $\chi^2$ /NDF: 23.2/22

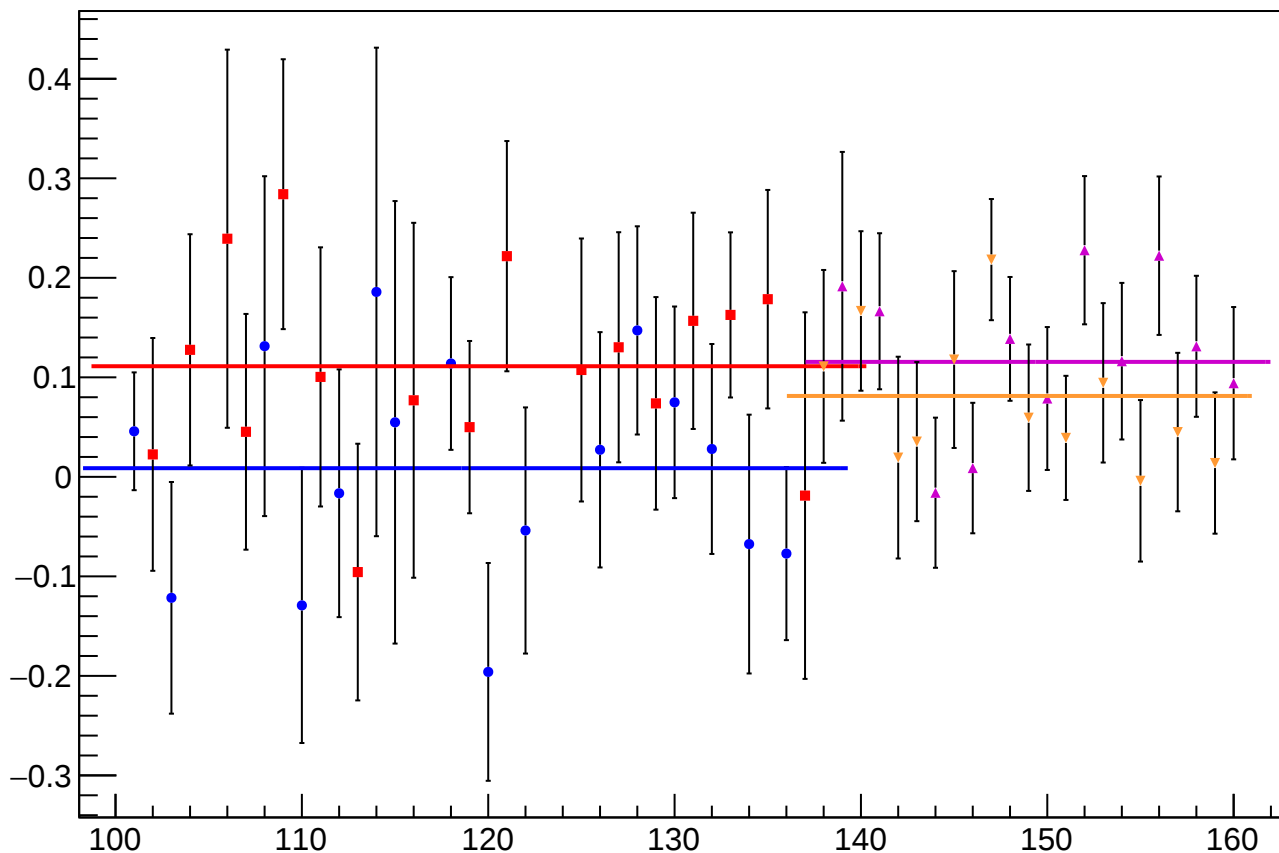
Right: 0.021 $\pm$ 0.031  $\chi^2$ /NDF: 18.6/32

In: 0.033 $\pm$ 0.023  $\chi^2$ /NDF:20.0/26

Out: 0.048 $\pm$ 0.023  $\chi^2$ /NDF:22.1/28

All: 0.040 $\pm$ 0.016  $\chi^2$ /NDF: 42.3/55

reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.009 \pm 0.027$   $\chi^2/\text{NDF}: 12.6/15$

Left Out:  $0.081 \pm 0.022$   $\chi^2/\text{NDF}: 10.0/11$

Right Out:  $0.111 \pm 0.029$   $\chi^2/\text{NDF}: 8.6/16$

Left In:  $0.116 \pm 0.023$   $\chi^2/\text{NDF}: 11.0/10$

Left:  $0.098 \pm 0.016$   $\chi^2/\text{NDF}: 22.1/22$

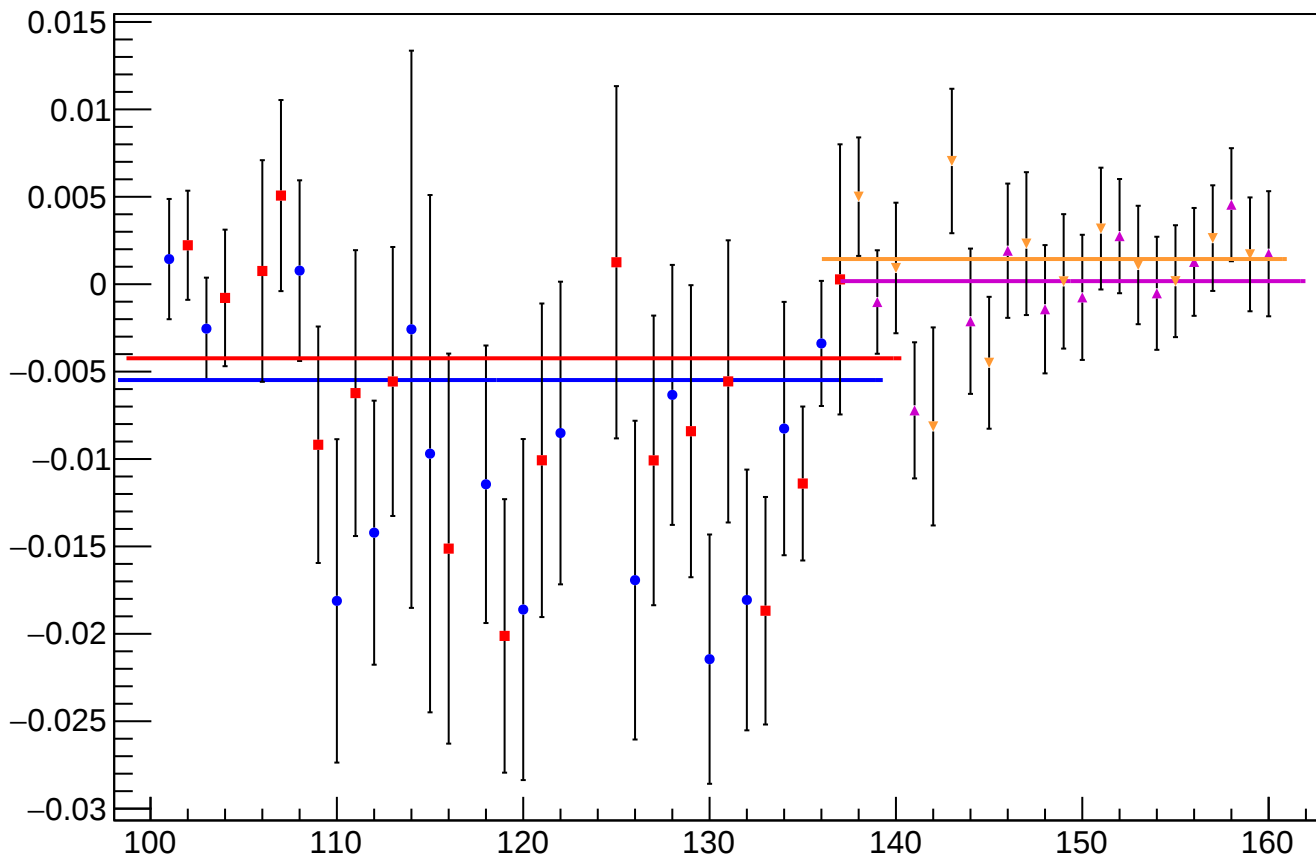
Right:  $0.057 \pm 0.020$   $\chi^2/\text{NDF}: 28.0/32$

In:  $0.071 \pm 0.017$   $\chi^2/\text{NDF}: 32.8/26$

Out:  $0.093 \pm 0.018$   $\chi^2/\text{NDF}: 19.2/28$

All:  $0.082 \pm 0.012$   $\chi^2/\text{NDF}: 52.8/55$

reg\_asym\_ds\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 22.3/15

Left Out:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 9.0/11

Right Out:  $-0.004 \pm 0.001$   $\chi^2/\text{NDF}$ : 23.7/16

Left In:  $0.000 \pm 0.001$   $\chi^2/\text{NDF}$ : 7.4/10

Left:  $0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 17.1/22

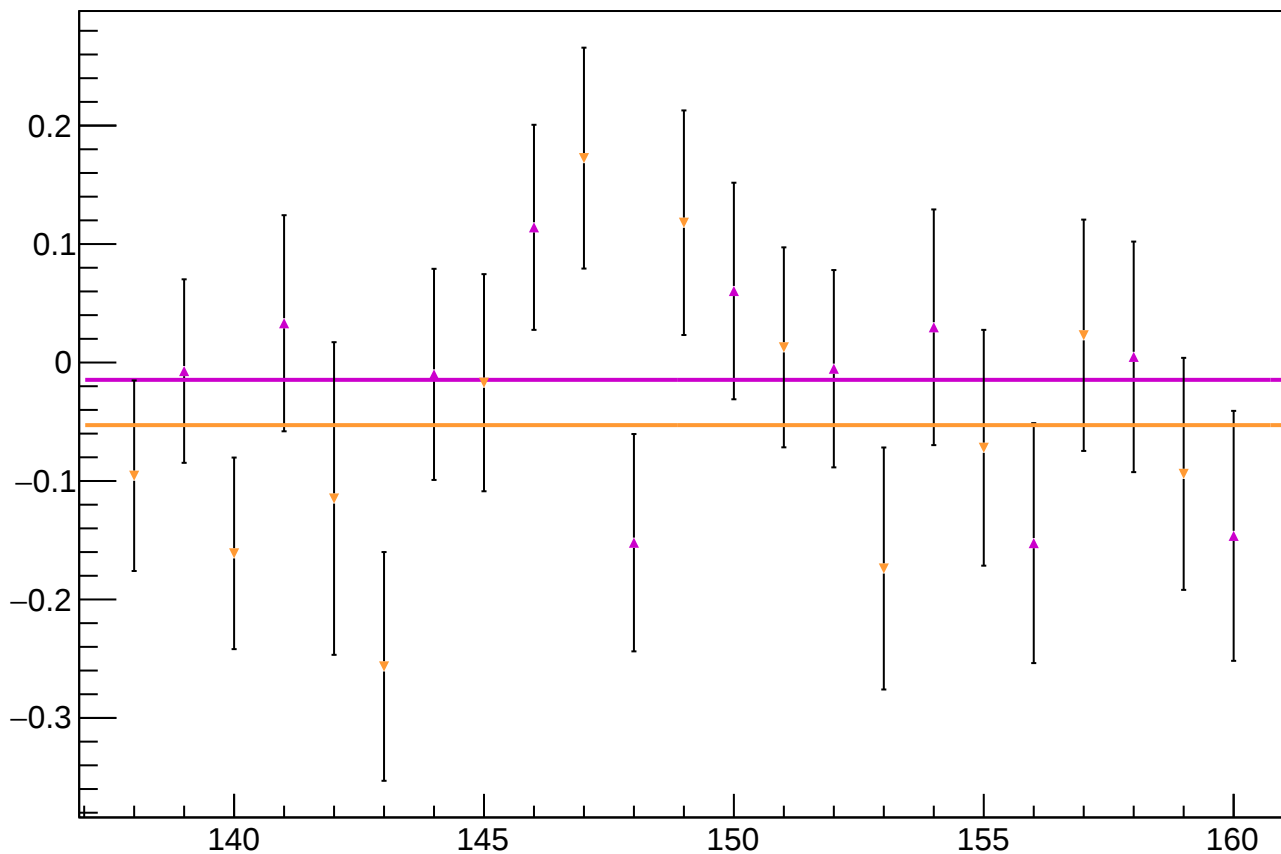
Right:  $-0.005 \pm 0.001$   $\chi^2/\text{NDF}$ : 46.3/32

In:  $-0.002 \pm 0.001$   $\chi^2/\text{NDF}$ : 39.8/26

Out:  $-0.000 \pm 0.001$   $\chi^2/\text{NDF}$ : 42.7/28

All:  $-0.001 \pm 0.001$   $\chi^2/\text{NDF}$ : 83.6/55

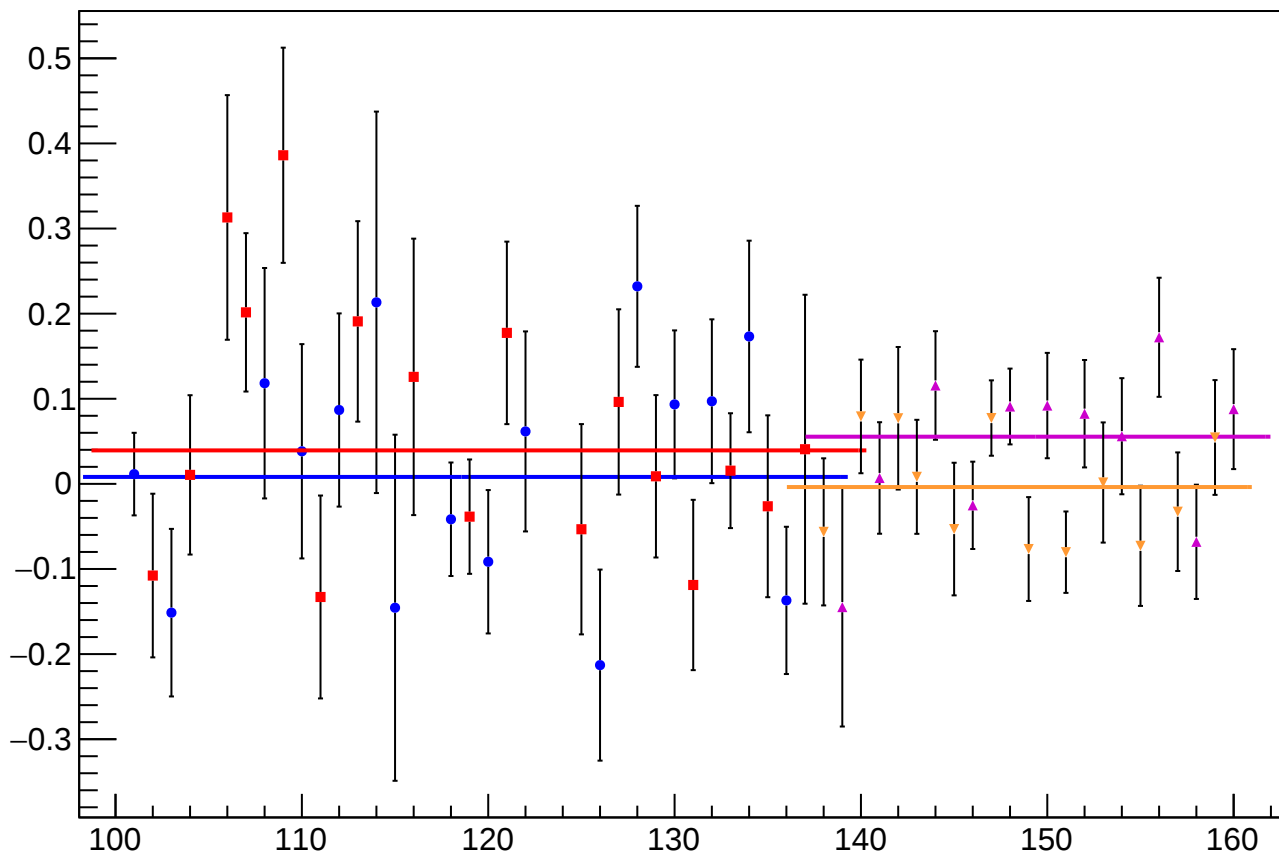
reg\_asym\_ds\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -0.053 $\pm$ 0.027  $\chi^2$ /NDF:18.8/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -0.015 $\pm$ 0.027  $\chi^2$ /NDF:9.1/10

Left: -0.034 $\pm$ 0.019  $\chi^2$ /NDF: 28.9/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -0.015 $\pm$ 0.027  $\chi^2$ /NDF:9.1/10  
 Out: -0.053 $\pm$ 0.027  $\chi^2$ /NDF:18.8/11  
 All: -0.034 $\pm$ 0.019  $\chi^2$ /NDF: 28.9/22

reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.008 \pm 0.023$   $\chi^2/\text{NDF}$ : 23.7/15

Left Out:  $-0.004 \pm 0.018$   $\chi^2/\text{NDF}$ : 12.5/11

Right Out:  $0.039 \pm 0.025$   $\chi^2/\text{NDF}$ : 27.6/16

Left In:  $0.055 \pm 0.019$   $\chi^2/\text{NDF}$ : 13.5/10

Left:  $0.025 \pm 0.013$   $\chi^2/\text{NDF}$ : 31.0/22

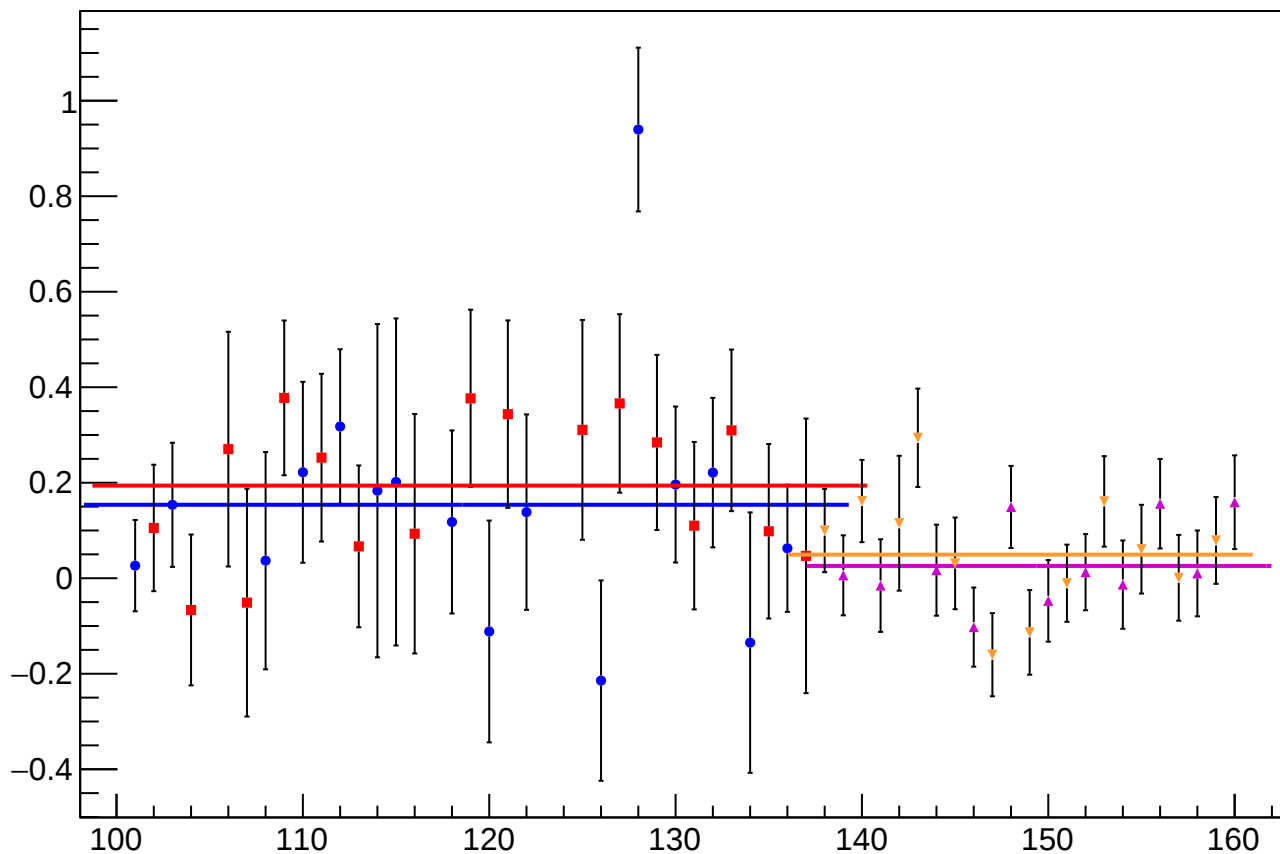
Right:  $0.023 \pm 0.017$   $\chi^2/\text{NDF}$ : 52.1/32

In:  $0.036 \pm 0.015$   $\chi^2/\text{NDF}$ : 39.6/26

Out:  $0.012 \pm 0.015$   $\chi^2/\text{NDF}$ : 42.0/28

All:  $0.024 \pm 0.010$   $\chi^2/\text{NDF}$ : 83.1/55

reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.154 $\pm$ 0.043  $\chi^2$ /NDF: 30.5/15

Left Out: 0.049 $\pm$ 0.027  $\chi^2$ /NDF:19.4/11

Right Out: 0.194 $\pm$ 0.045  $\chi^2$ /NDF: 10.6/16

Left In: 0.026 $\pm$ 0.027  $\chi^2$ /NDF:9.4/10

Left: 0.038 $\pm$ 0.019  $\chi^2$ /NDF: 29.3/22

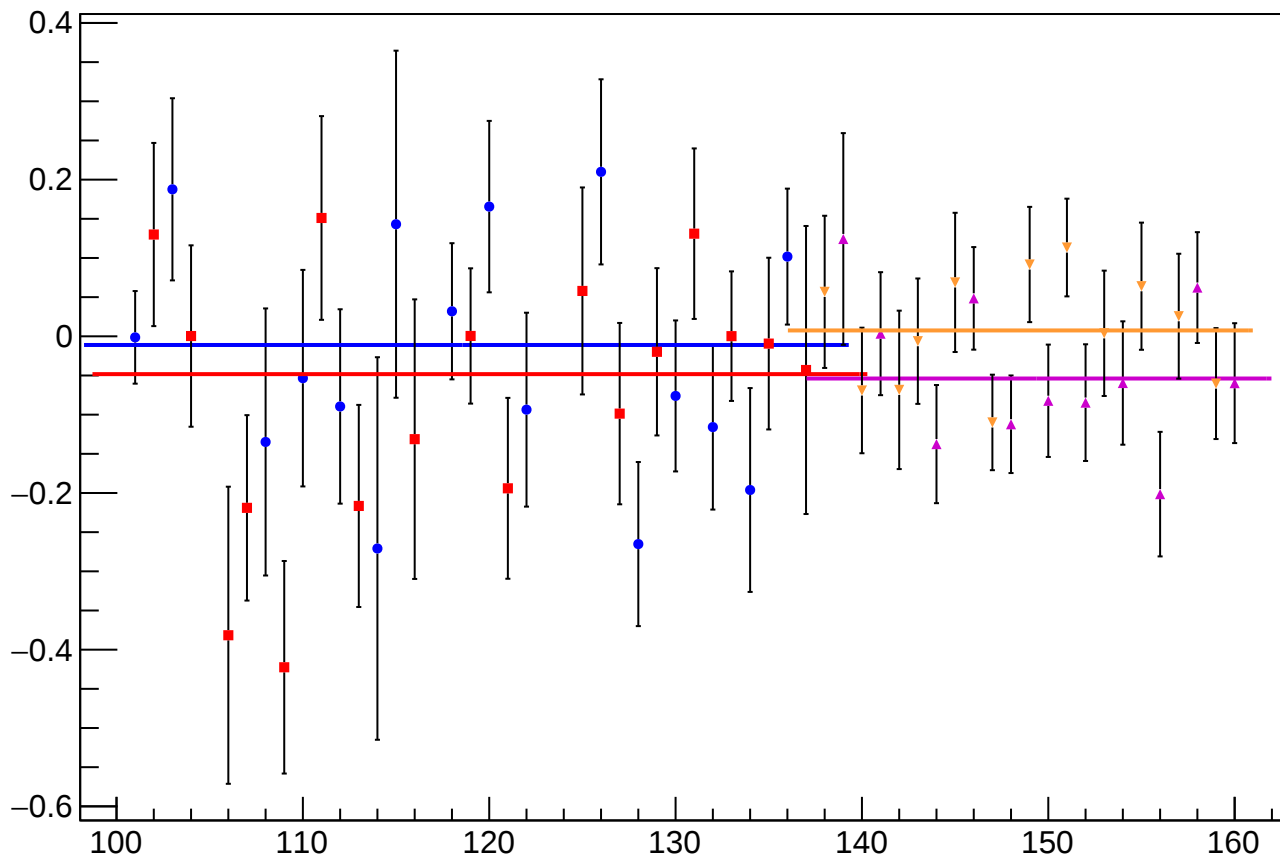
Right: 0.173 $\pm$ 0.031  $\chi^2$ /NDF: 41.5/32

In: 0.062 $\pm$ 0.023  $\chi^2$ /NDF:46.4/26

Out: 0.087 $\pm$ 0.023  $\chi^2$ /NDF:37.7/28

All: 0.074 $\pm$ 0.016  $\chi^2$ /NDF: 84.6/55

reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.011 \pm 0.027$   $\chi^2/\text{NDF}: 23.4/15$

Left Out:  $0.008 \pm 0.022$   $\chi^2/\text{NDF}: 11.6/11$

Right Out:  $-0.048 \pm 0.029$   $\chi^2/\text{NDF}: 25.6/16$

Left In:  $-0.054 \pm 0.023$   $\chi^2/\text{NDF}: 13.3/10$

Left:  $-0.023 \pm 0.016$   $\chi^2/\text{NDF}: 28.6/22$

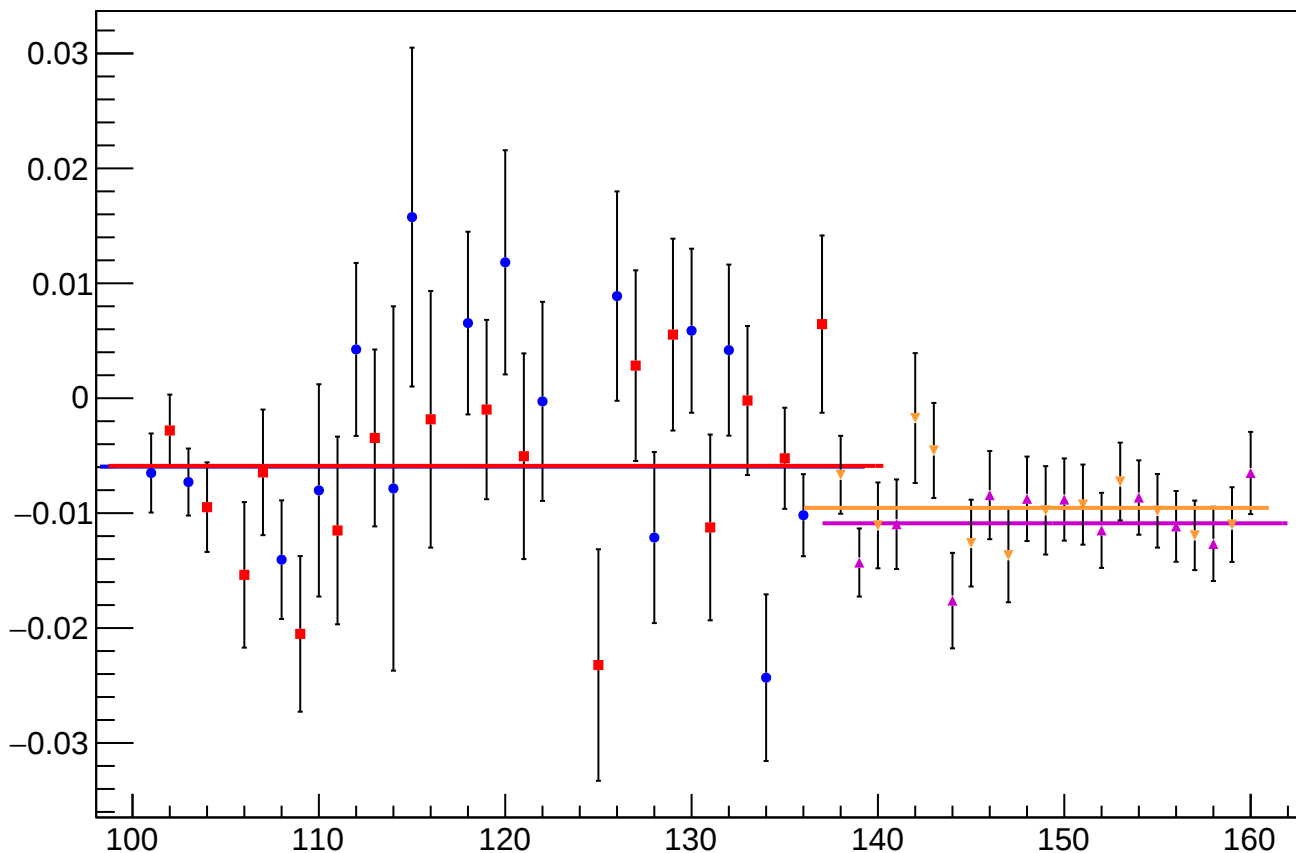
Right:  $-0.029 \pm 0.020$   $\chi^2/\text{NDF}: 49.9/32$

In:  $-0.036 \pm 0.017$   $\chi^2/\text{NDF}: 38.2/26$

Out:  $-0.014 \pm 0.018$   $\chi^2/\text{NDF}: 39.5/28$

All:  $-0.025 \pm 0.012$   $\chi^2/\text{NDF}: 78.6/55$

reg\_asym\_ds\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}: 28.7/15$

Left Out:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}: 7.2/11$

Right Out:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}: 19.6/16$

Left In:  $-0.011 \pm 0.001$   $\chi^2/\text{NDF}: 7.4/10$

Left:  $-0.010 \pm 0.001$   $\chi^2/\text{NDF}: 15.4/22$

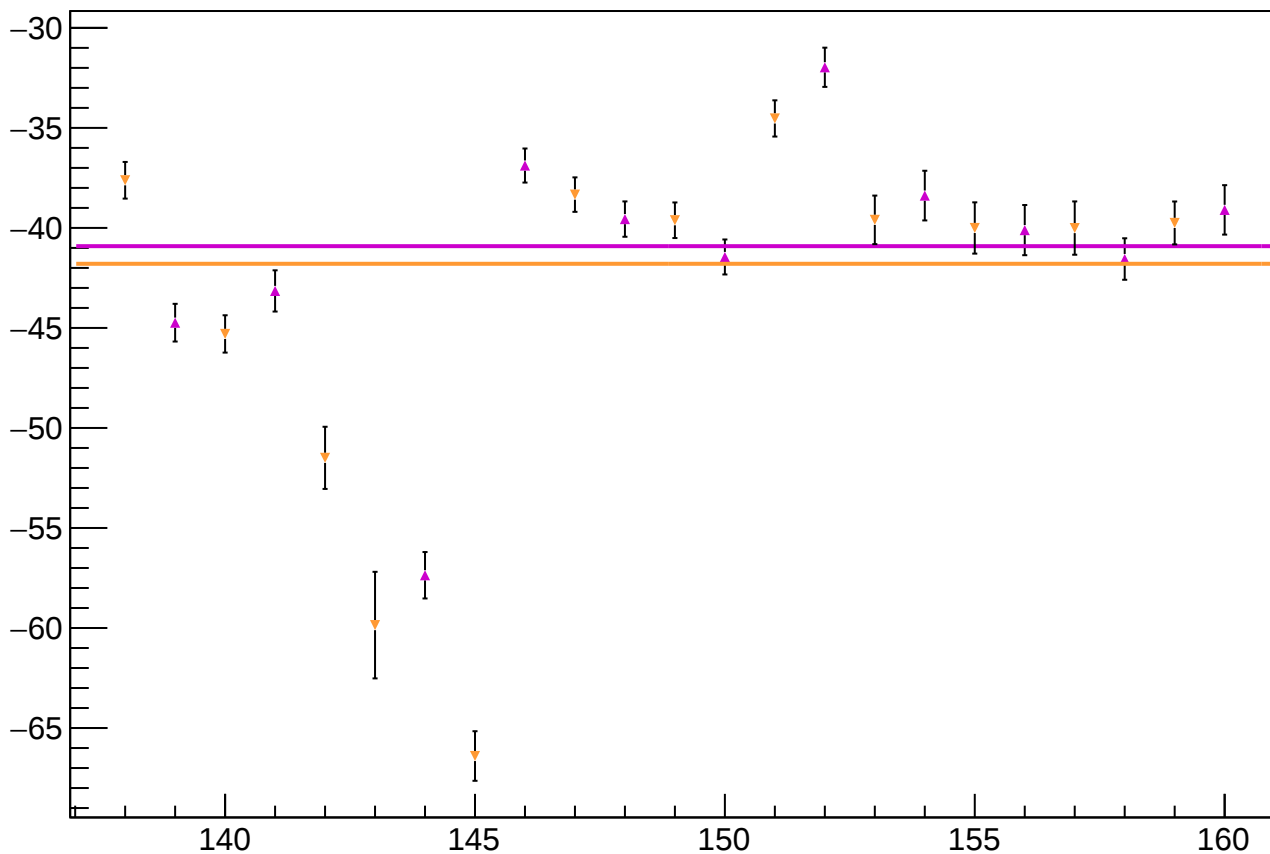
Right:  $-0.006 \pm 0.001$   $\chi^2/\text{NDF}: 48.3/32$

In:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}: 43.8/26$

Out:  $-0.008 \pm 0.001$   $\chi^2/\text{NDF}: 30.9/28$

All:  $-0.009 \pm 0.001$   $\chi^2/\text{NDF}: 75.3/55$

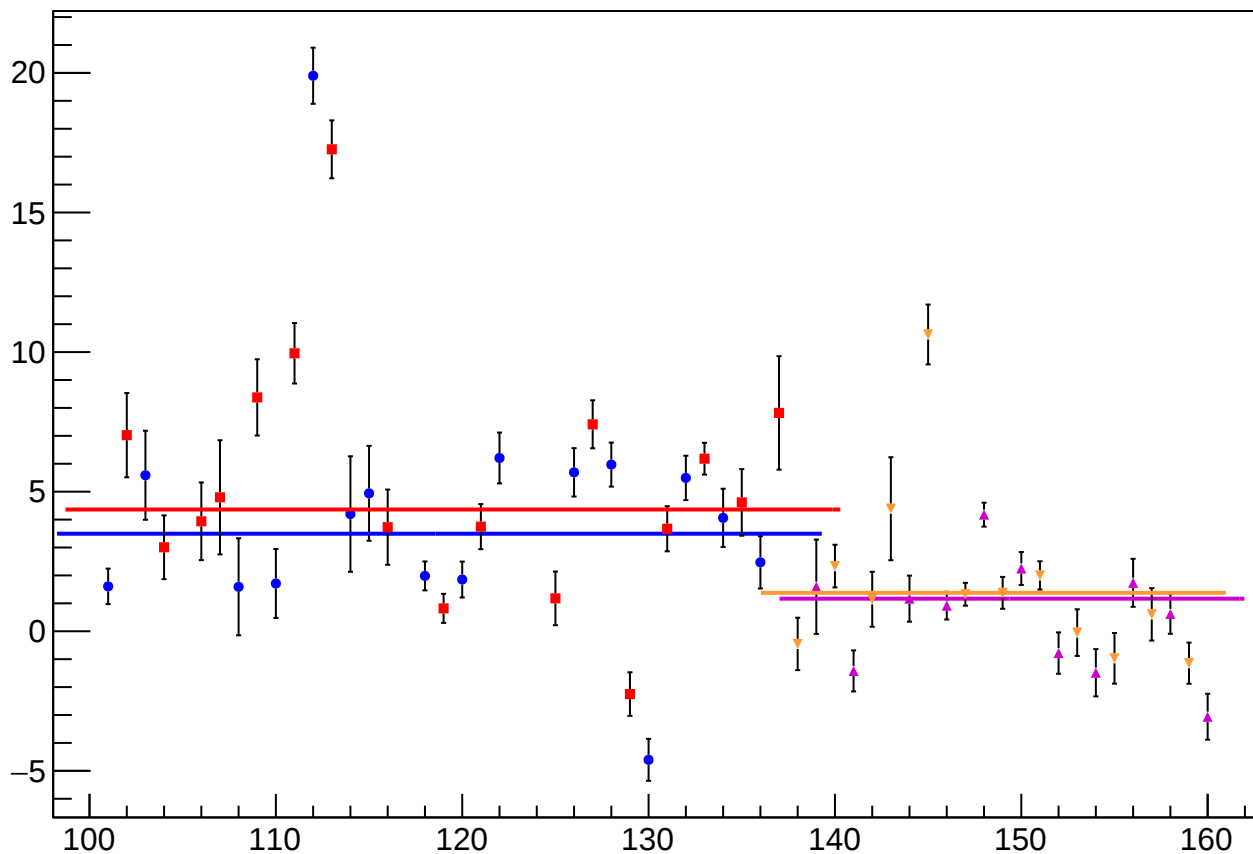
reg\_asym\_left\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



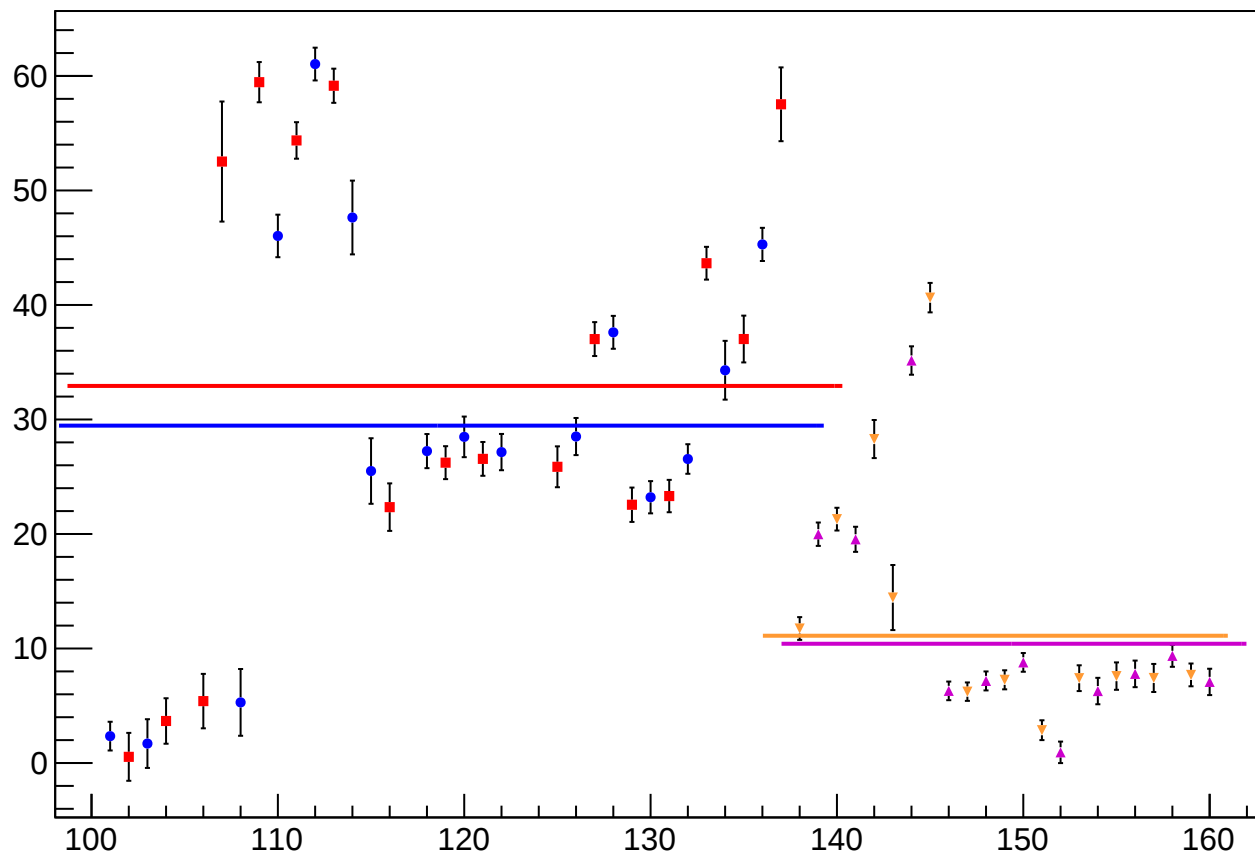
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.793+/-0.315  $\chi^2/\text{NDF}$ :611.0/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.912+/-0.306  $\chi^2/\text{NDF}$ :337.6/10

Left: -41.340+/-0.219  $\chi^2/\text{NDF}$ : 952.7/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -40.912+/-0.306  $\chi^2/\text{NDF}$ :337.6/10  
 Out: -41.793+/-0.315  $\chi^2/\text{NDF}$ :611.0/11  
 All: -41.340+/-0.219  $\chi^2/\text{NDF}$ : 952.7/22

reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.463 $\pm$ 0.418  $\chi^2$ /NDF: 1491.6/15

Left Out: 11.115 $\pm$ 0.307  $\chi^2$ /NDF:929.9/11

Right Out: 32.930 $\pm$ 0.423  $\chi^2$ /NDF: 1624.4/16

Left In: 10.414 $\pm$ 0.296  $\chi^2$ /NDF:728.8/10

Left: 10.752 $\pm$ 0.213  $\chi^2$ /NDF: 1661.5/22

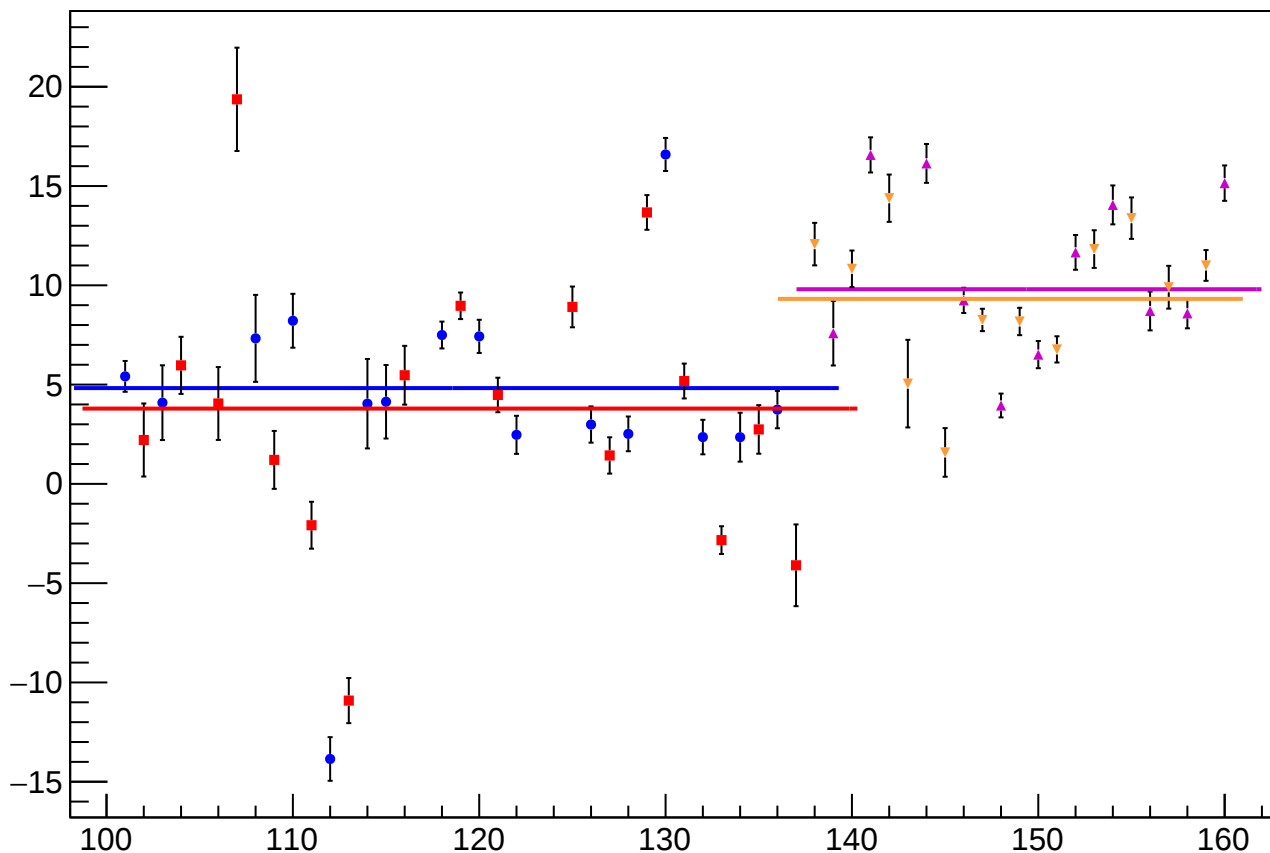
Right: 31.172 $\pm$ 0.297  $\chi^2$ /NDF: 3150.0/32

In: 16.800 $\pm$ 0.242  $\chi^2$ /NDF:3604.2/26

Out: 18.631 $\pm$ 0.249  $\chi^2$ /NDF:4293.5/28

All: 17.690 $\pm$ 0.173  $\chi^2$ /NDF: 7925.6/55

reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $4.824 \pm 0.252$   $\chi^2/\text{NDF}: 552.9/15$

Left Out:  $9.317 \pm 0.252$   $\chi^2/\text{NDF}: 119.4/11$

Right Out:  $3.792 \pm 0.259$   $\chi^2/\text{NDF}: 563.6/16$

Left In:  $9.803 \pm 0.246$   $\chi^2/\text{NDF}: 284.5/10$

Left:  $9.566 \pm 0.176$   $\chi^2/\text{NDF}: 405.8/22$

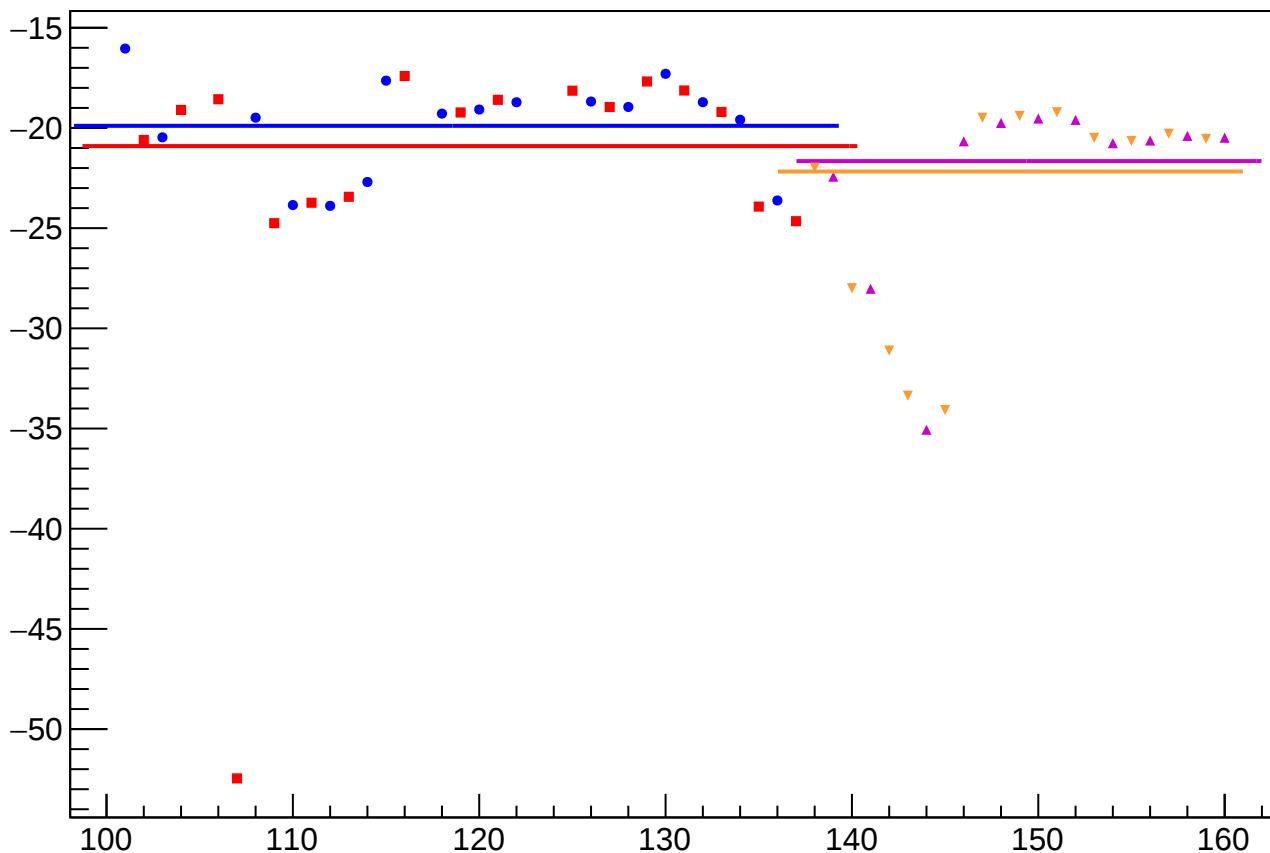
Right:  $4.323 \pm 0.180$   $\chi^2/\text{NDF}: 1124.7/32$

In:  $7.368 \pm 0.176$   $\chi^2/\text{NDF}: 1037.4/26$

Out:  $6.629 \pm 0.181$   $\chi^2/\text{NDF}: 916.7/28$

All:  $7.008 \pm 0.126$   $\chi^2/\text{NDF}: 1962.7/55$

reg\_asym\_left\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -19.892 $\pm$ 0.016  $\chi^2$ /NDF: 26092.3/15

Left Out: -22.173 $\pm$ 0.012  $\chi^2$ /NDF:124618.7/11

Right Out: -20.904 $\pm$ 0.016  $\chi^2$ /NDF: 92802.8/16

Left In: -21.653 $\pm$ 0.012  $\chi^2$ /NDF:95367.7/10

Left: -21.899 $\pm$ 0.008  $\chi^2$ /NDF: 220928.3/22

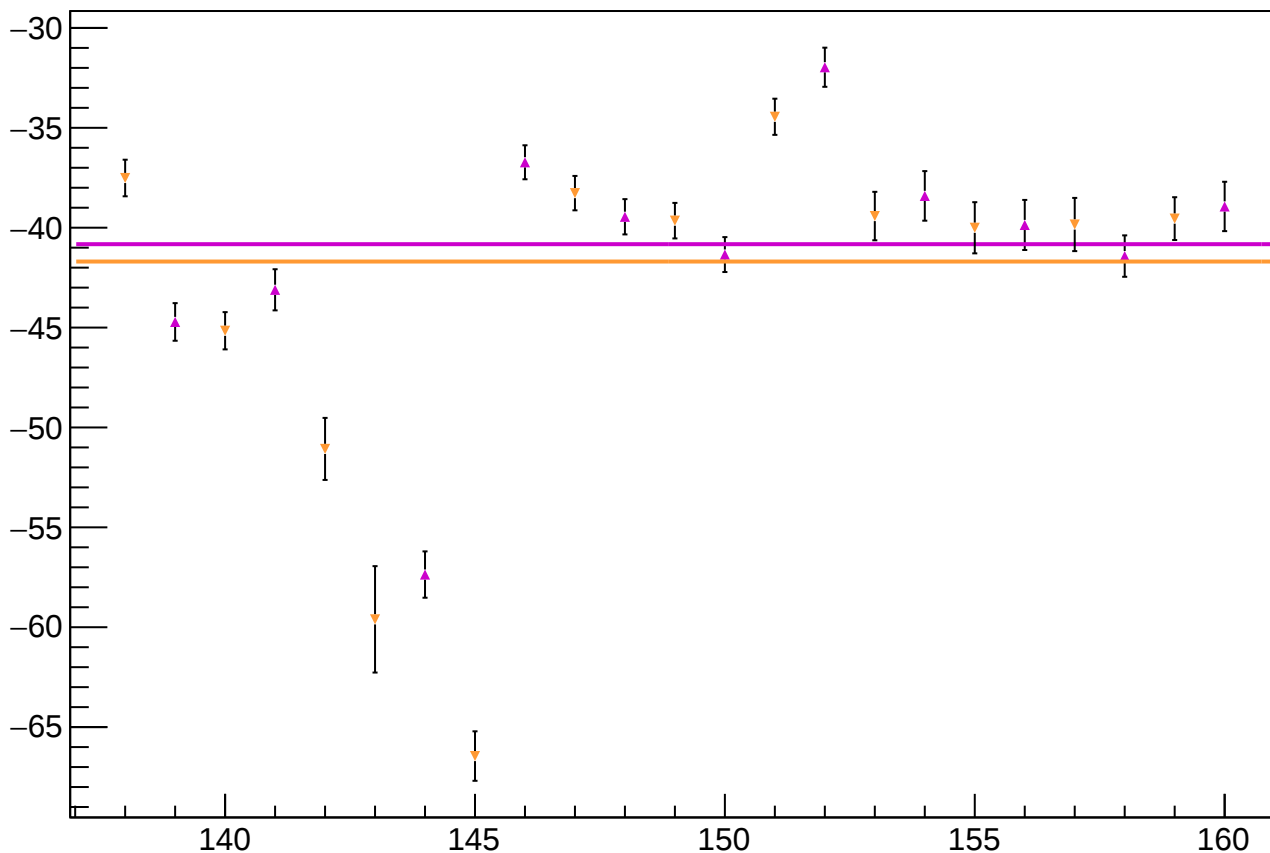
Right: -20.393 $\pm$ 0.011  $\chi^2$ /NDF: 120979.2/32

In: -21.022 $\pm$ 0.009  $\chi^2$ /NDF:129645.6/26

Out: -21.692 $\pm$ 0.010  $\chi^2$ /NDF:221463.3/28

All: -21.345 $\pm$ 0.007  $\chi^2$ /NDF: 353593.3/55

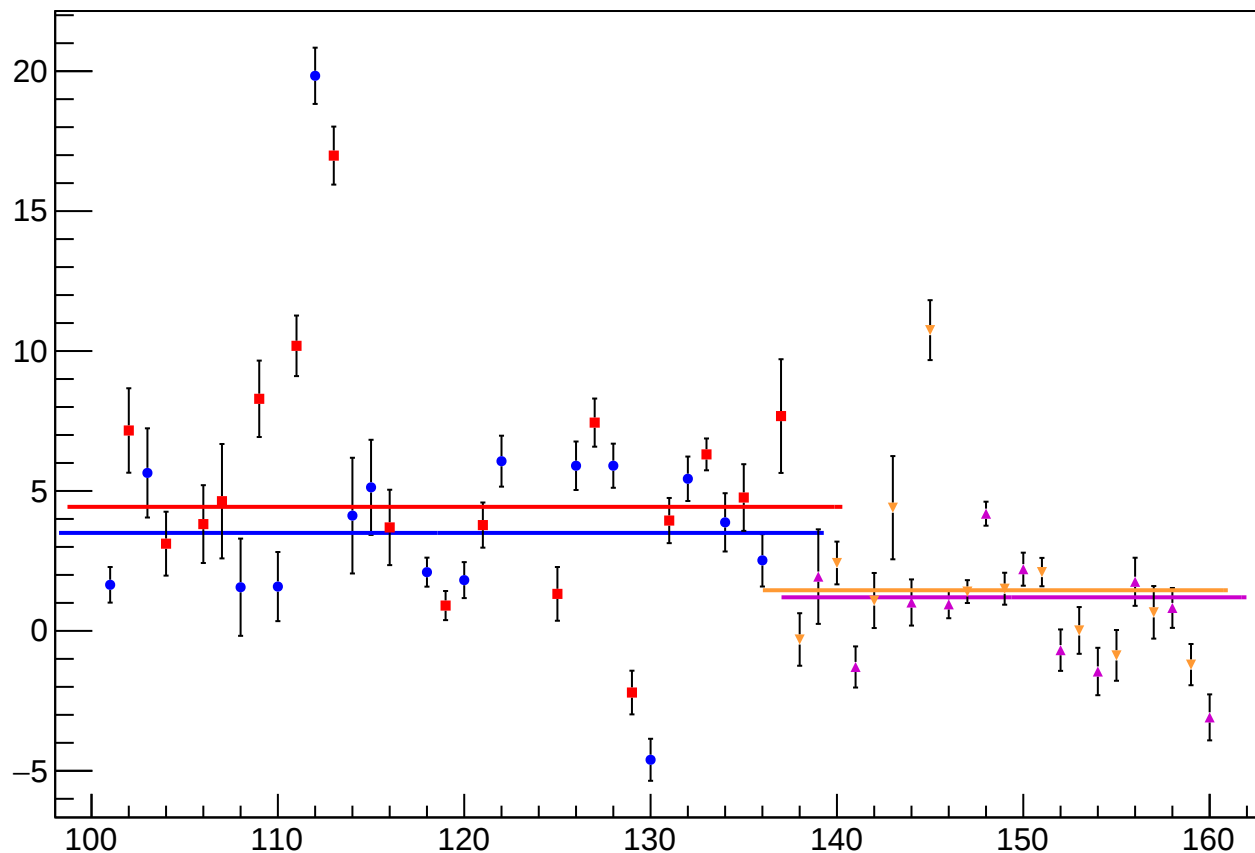
reg\_asym\_left\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -41.694+/-0.315  $\chi^2/\text{NDF}$ :612.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -40.825+/-0.306  $\chi^2/\text{NDF}$ :340.1/10

Left: -41.247+/-0.219  $\chi^2/\text{NDF}$ : 956.2/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -40.825+/-0.306  $\chi^2/\text{NDF}$ :340.1/10  
 Out: -41.694+/-0.315  $\chi^2/\text{NDF}$ :612.2/11  
 All: -41.247+/-0.219  $\chi^2/\text{NDF}$ : 956.2/22

reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.501 \pm 0.218$   $\chi^2/\text{NDF}$ : 441.9/15

Left Out:  $1.452 \pm 0.206$   $\chi^2/\text{NDF}$ : 108.1/11

Right Out:  $4.432 \pm 0.225$   $\chi^2/\text{NDF}$ : 343.6/16

Left In:  $1.200 \pm 0.204$   $\chi^2/\text{NDF}$ : 107.7/10

Left:  $1.325 \pm 0.145$   $\chi^2/\text{NDF}$ : 216.6/22

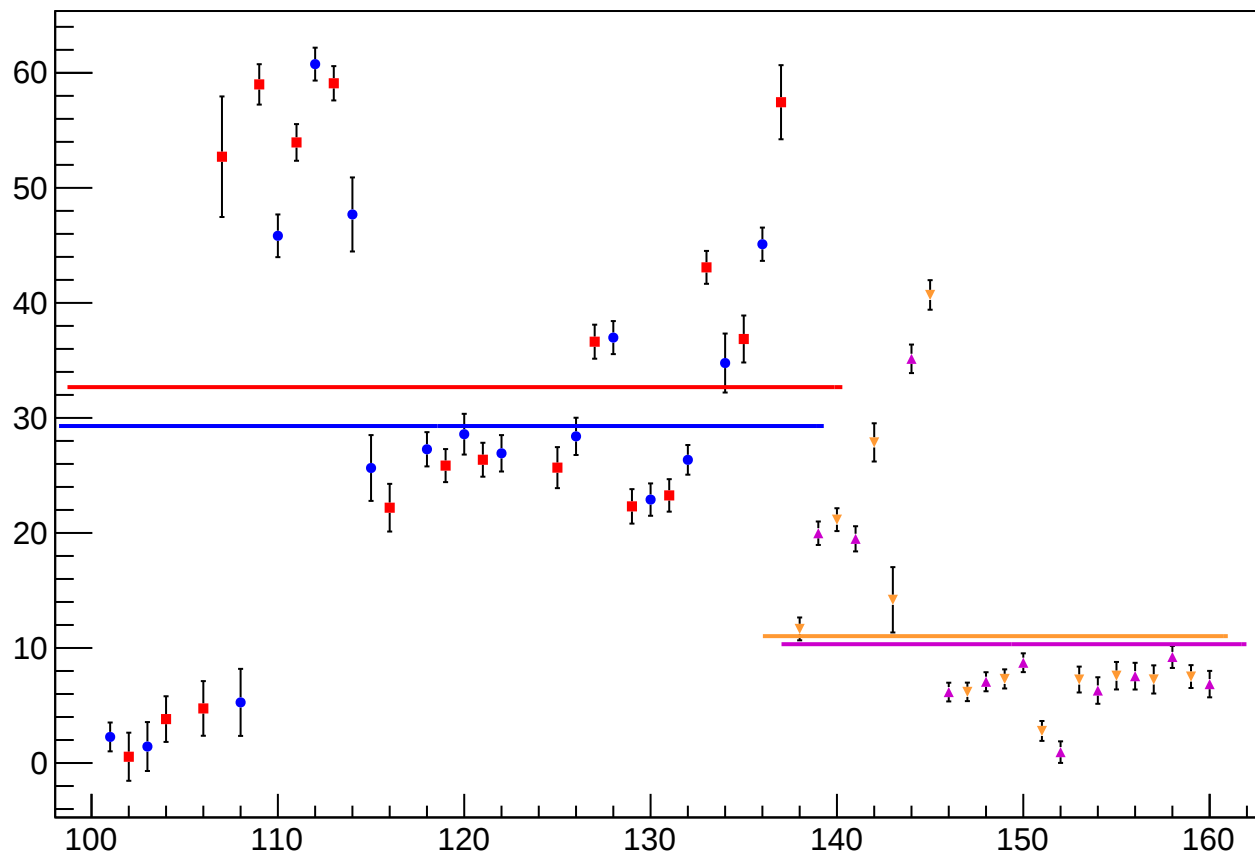
Right:  $3.951 \pm 0.156$   $\chi^2/\text{NDF}$ : 794.3/32

In:  $2.276 \pm 0.149$   $\chi^2/\text{NDF}$ : 609.2/26

Out:  $2.808 \pm 0.152$   $\chi^2/\text{NDF}$ : 547.2/28

All:  $2.536 \pm 0.106$   $\chi^2/\text{NDF}$ : 1162.6/55

reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 29.297 $\pm$ 0.417  $\chi^2$ /NDF: 1485.2/15

Left Out: 11.030 $\pm$ 0.307  $\chi^2$ /NDF: 929.5/11

Right Out: 32.679 $\pm$ 0.423  $\chi^2$ /NDF: 1614.8/16

Left In: 10.329 $\pm$ 0.296  $\chi^2$ /NDF: 733.6/10

Left: 10.667 $\pm$ 0.213  $\chi^2$ /NDF: 1665.8/22

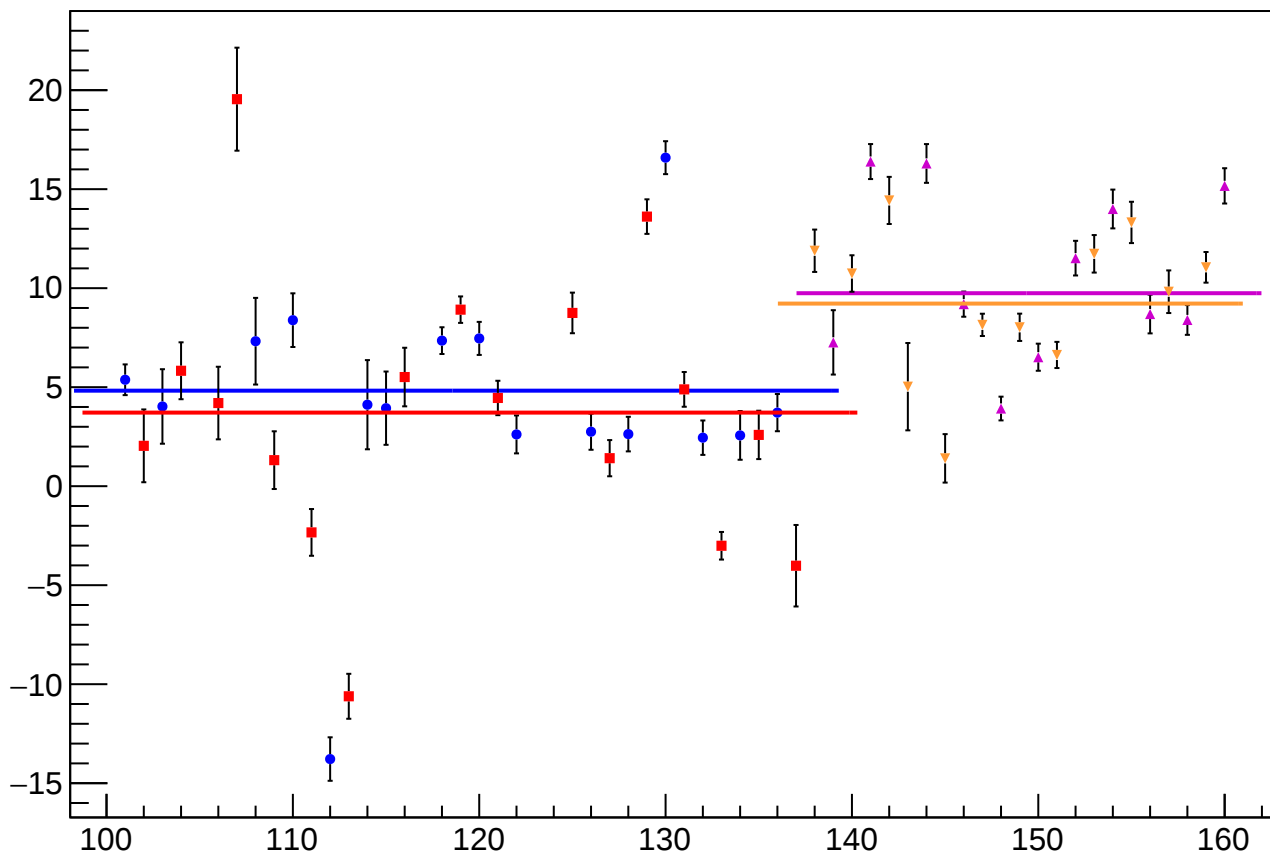
Right: 30.964 $\pm$ 0.297  $\chi^2$ /NDF: 3132.4/32

In: 16.688 $\pm$ 0.242  $\chi^2$ /NDF: 3592.6/26

Out: 18.490 $\pm$ 0.248  $\chi^2$ /NDF: 4259.3/28

All: 17.564 $\pm$ 0.173  $\chi^2$ /NDF: 7879.0/55

reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 4.824 $\pm$ 0.252  $\chi^2$ /NDF: 549.2/15

Left Out: 9.222 $\pm$ 0.252  $\chi^2$ /NDF:123.0/11

Right Out: 3.716 $\pm$ 0.259  $\chi^2$ /NDF: 559.9/16

Left In: 9.746 $\pm$ 0.246  $\chi^2$ /NDF:285.6/10

Left: 9.490 $\pm$ 0.176  $\chi^2$ /NDF: 410.8/22

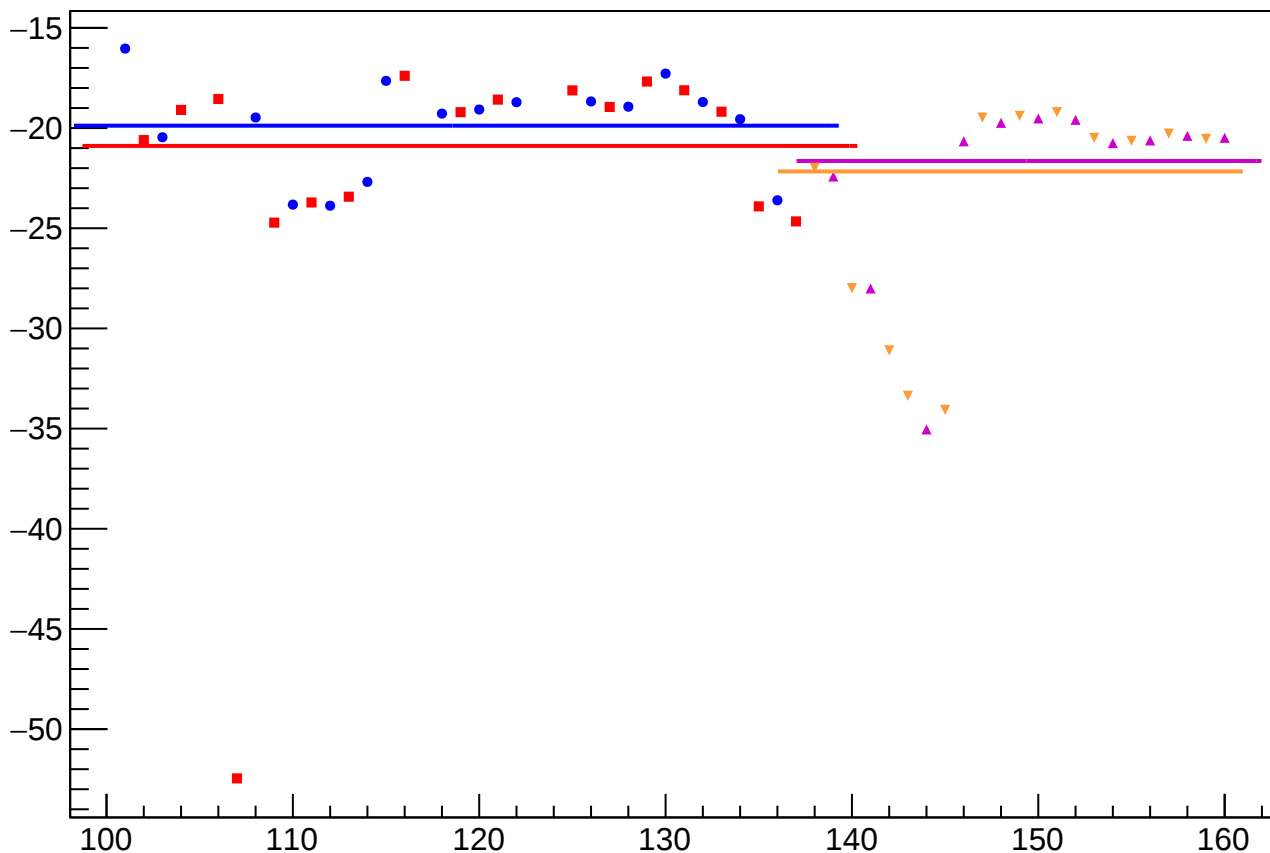
Right: 4.286 $\pm$ 0.180  $\chi^2$ /NDF: 1118.6/32

In: 7.339 $\pm$ 0.176  $\chi^2$ /NDF:1030.5/26

Out: 6.542 $\pm$ 0.181  $\chi^2$ /NDF:915.3/28

All: 6.951 $\pm$ 0.126  $\chi^2$ /NDF: 1955.8/55

reg\_asym\_left\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-19.880 \pm 0.016$   $\chi^2/\text{NDF}: 26082.0/15$

Left Out:  $-22.164 \pm 0.012$   $\chi^2/\text{NDF}: 124716.7/11$

Right Out:  $-20.891 \pm 0.016$   $\chi^2/\text{NDF}: 92913.6/16$

Left In:  $-21.643 \pm 0.012$   $\chi^2/\text{NDF}: 95303.7/10$

Left:  $-21.890 \pm 0.008$   $\chi^2/\text{NDF}: 220969.3/22$

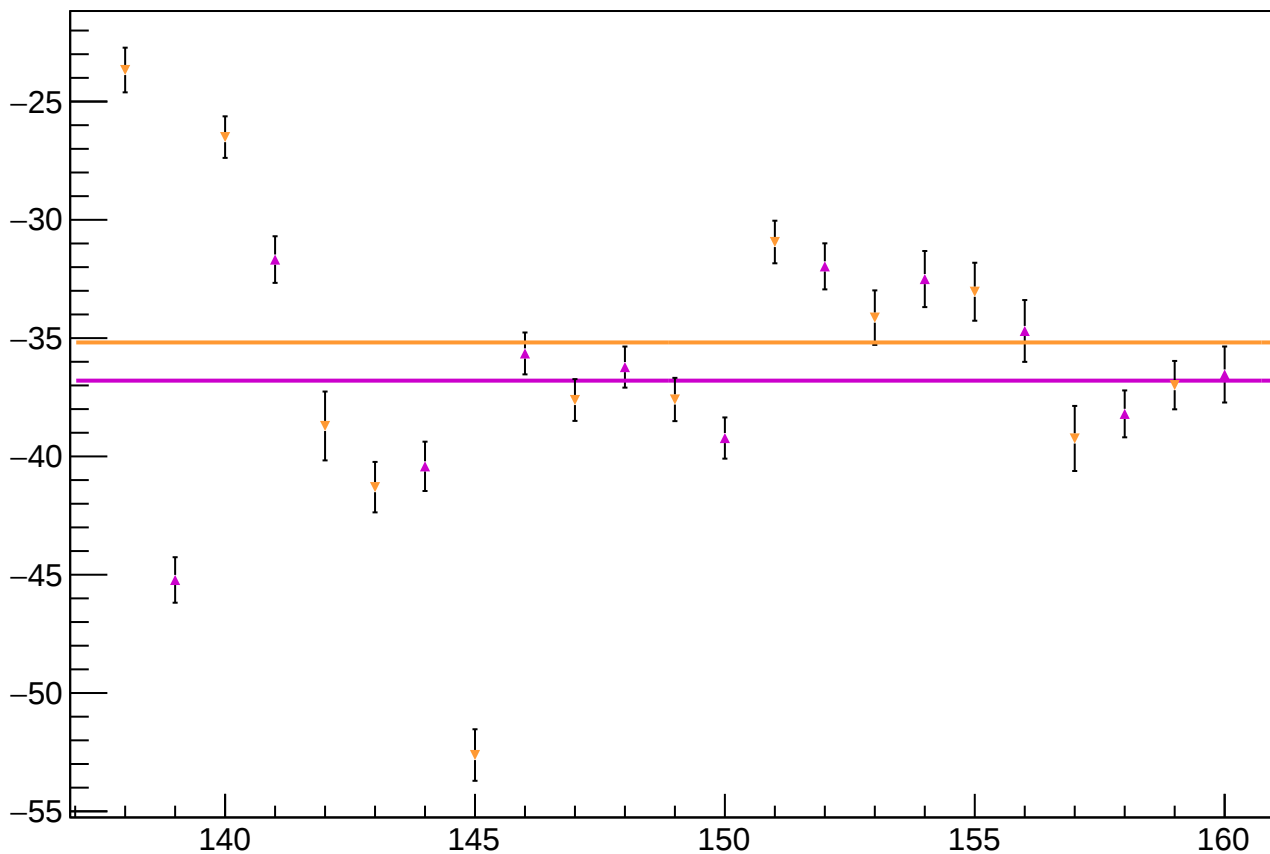
Right:  $-20.381 \pm 0.011$   $\chi^2/\text{NDF}: 121077.9/32$

In:  $-21.011 \pm 0.009$   $\chi^2/\text{NDF}: 129597.9/26$

Out:  $-21.682 \pm 0.010$   $\chi^2/\text{NDF}: 221705.7/28$

All:  $-21.334 \pm 0.007$   $\chi^2/\text{NDF}: 353795.4/55$

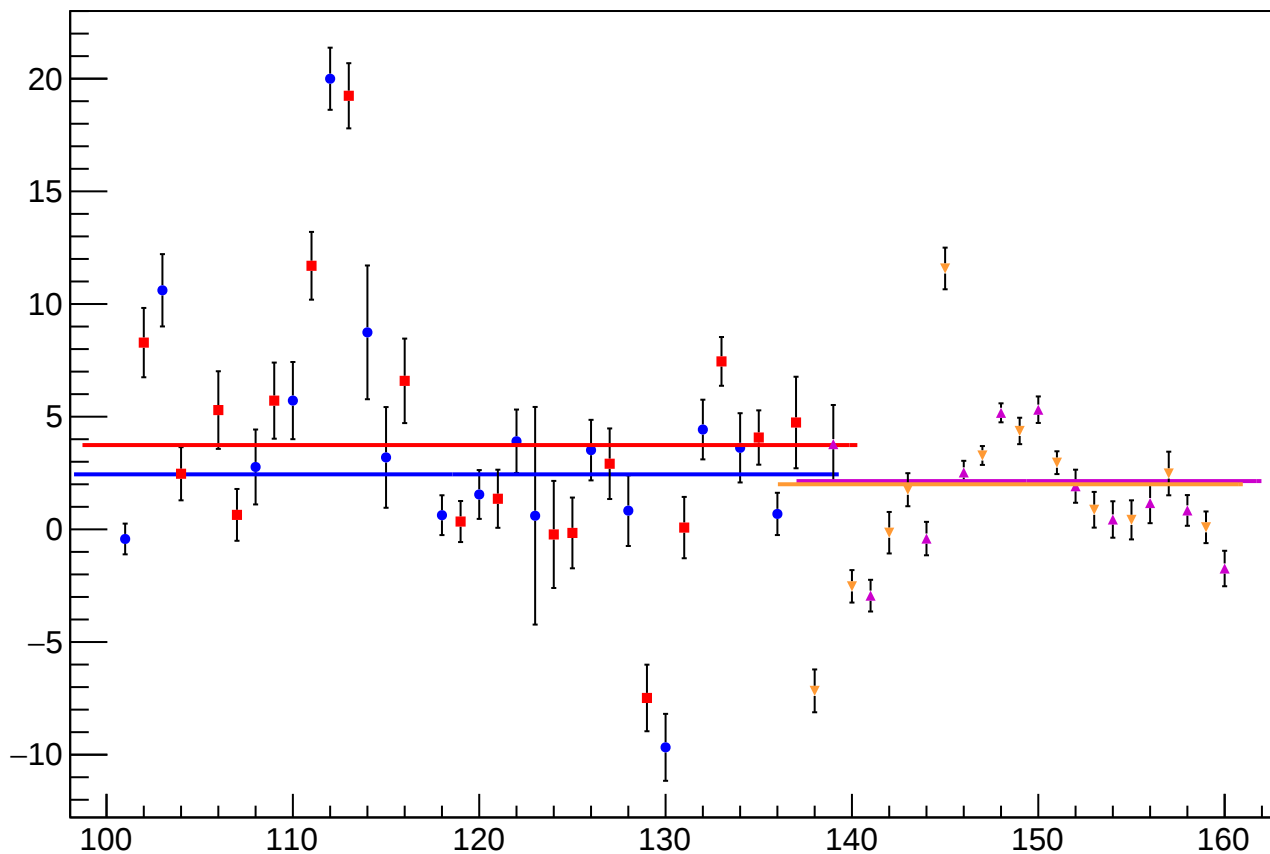
reg\_asym\_right\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.183+/-0.298  $\chi^2/\text{NDF}$ : 593.9/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -36.797+/-0.301  $\chi^2/\text{NDF}$ : 168.0/10

Left: -35.983+/-0.212  $\chi^2/\text{NDF}$ : 776.5/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -36.797+/-0.301  $\chi^2/\text{NDF}$ : 168.0/10  
 Out: -35.183+/-0.298  $\chi^2/\text{NDF}$ : 593.9/11  
 All: -35.983+/-0.212  $\chi^2/\text{NDF}$ : 776.5/22

reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.441 \pm 0.311$   $\chi^2/\text{NDF}: 294.7/16$

Left Out:  $2.001 \pm 0.197$   $\chi^2/\text{NDF}: 287.7/11$

Right Out:  $3.741 \pm 0.327$   $\chi^2/\text{NDF}: 268.1/17$

Left In:  $2.142 \pm 0.201$   $\chi^2/\text{NDF}: 179.9/10$

Left:  $2.071 \pm 0.141$   $\chi^2/\text{NDF}: 467.9/22$

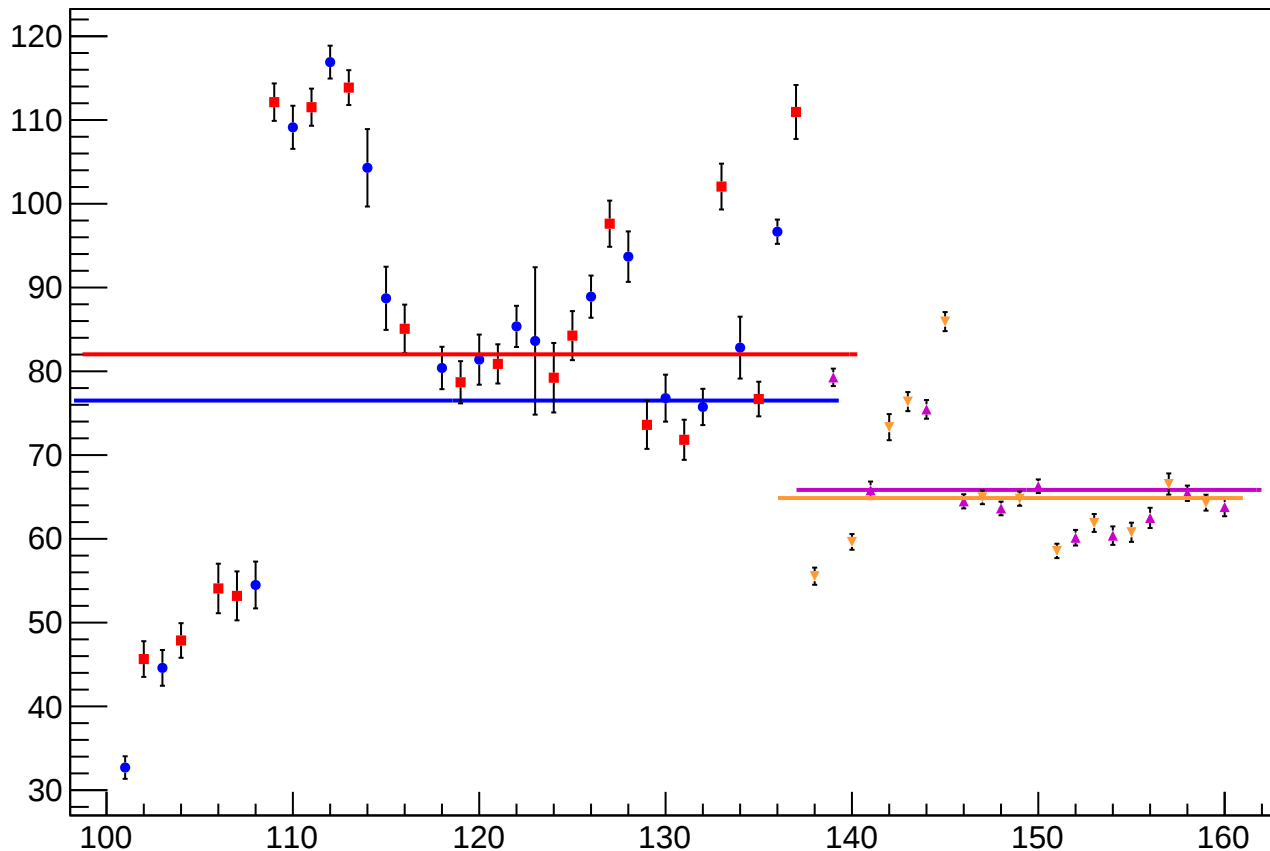
Right:  $3.060 \pm 0.225$   $\chi^2/\text{NDF}: 571.1/34$

In:  $2.230 \pm 0.169$   $\chi^2/\text{NDF}: 475.3/27$

Out:  $2.465 \pm 0.169$   $\chi^2/\text{NDF}: 576.6/29$

All:  $2.347 \pm 0.119$   $\chi^2/\text{NDF}: 1052.9/57$

reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.509 $\pm$ 0.574  $\chi^2$ /NDF: 2250.9/16

Left Out: 64.870 $\pm$ 0.293  $\chi^2$ /NDF: 665.9/11

Right Out: 82.029 $\pm$ 0.593  $\chi^2$ /NDF: 1548.0/17

Left In: 65.842 $\pm$ 0.292  $\chi^2$ /NDF: 324.4/10

Left: 65.358 $\pm$ 0.207  $\chi^2$ /NDF: 995.8/22

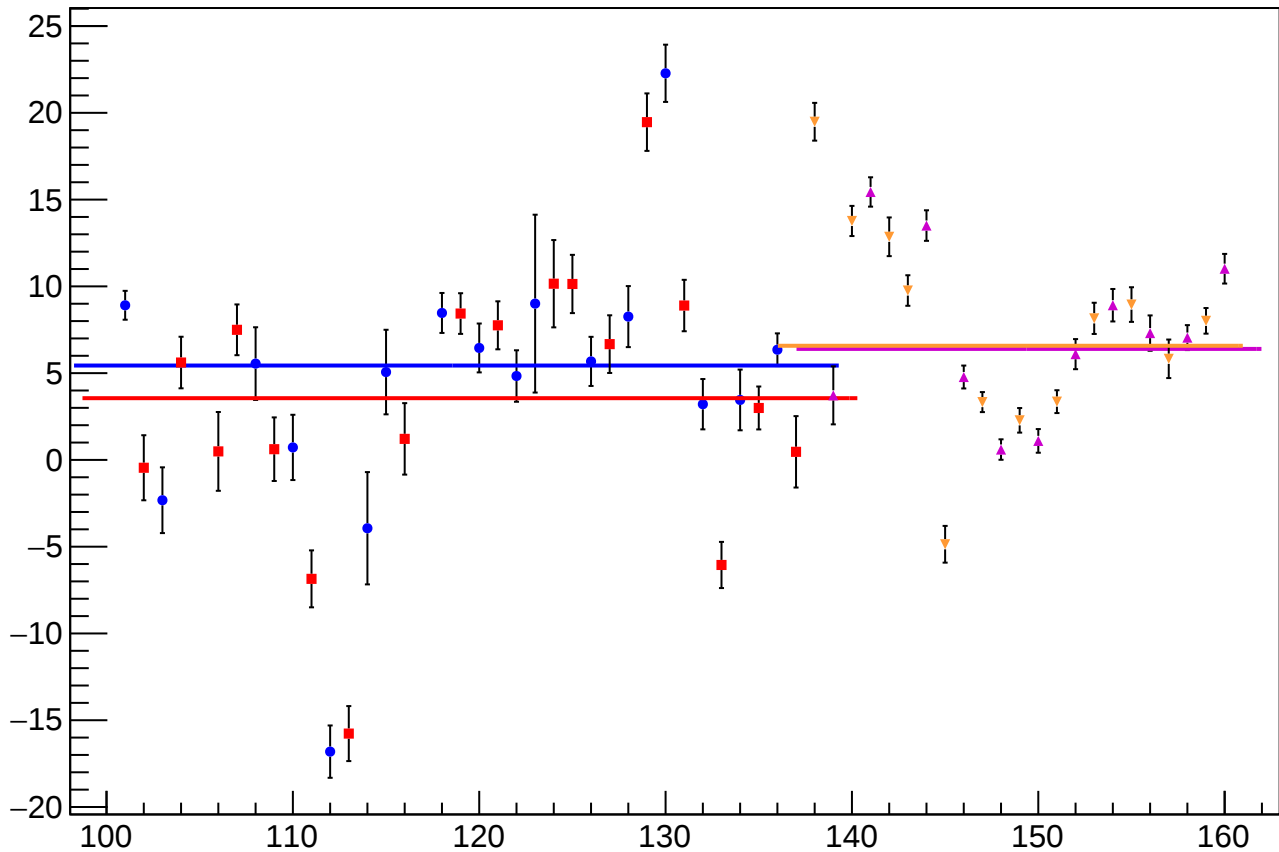
Right: 79.182 $\pm$ 0.412  $\chi^2$ /NDF: 3843.6/34

In: 68.034 $\pm$ 0.260  $\chi^2$ /NDF: 2849.6/27

Out: 68.246 $\pm$ 0.263  $\chi^2$ /NDF: 2887.3/29

All: 68.139 $\pm$ 0.185  $\chi^2$ /NDF: 5737.2/57

reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.439 \pm 0.358$   $\chi^2/\text{NDF}: 386.2/16$

Left Out:  $6.578 \pm 0.240$   $\chi^2/\text{NDF}: 476.2/11$

Right Out:  $3.557 \pm 0.375$   $\chi^2/\text{NDF}: 420.6/17$

Left In:  $6.396 \pm 0.242$   $\chi^2/\text{NDF}: 383.6/10$

Left:  $6.488 \pm 0.170$   $\chi^2/\text{NDF}: 860.1/22$

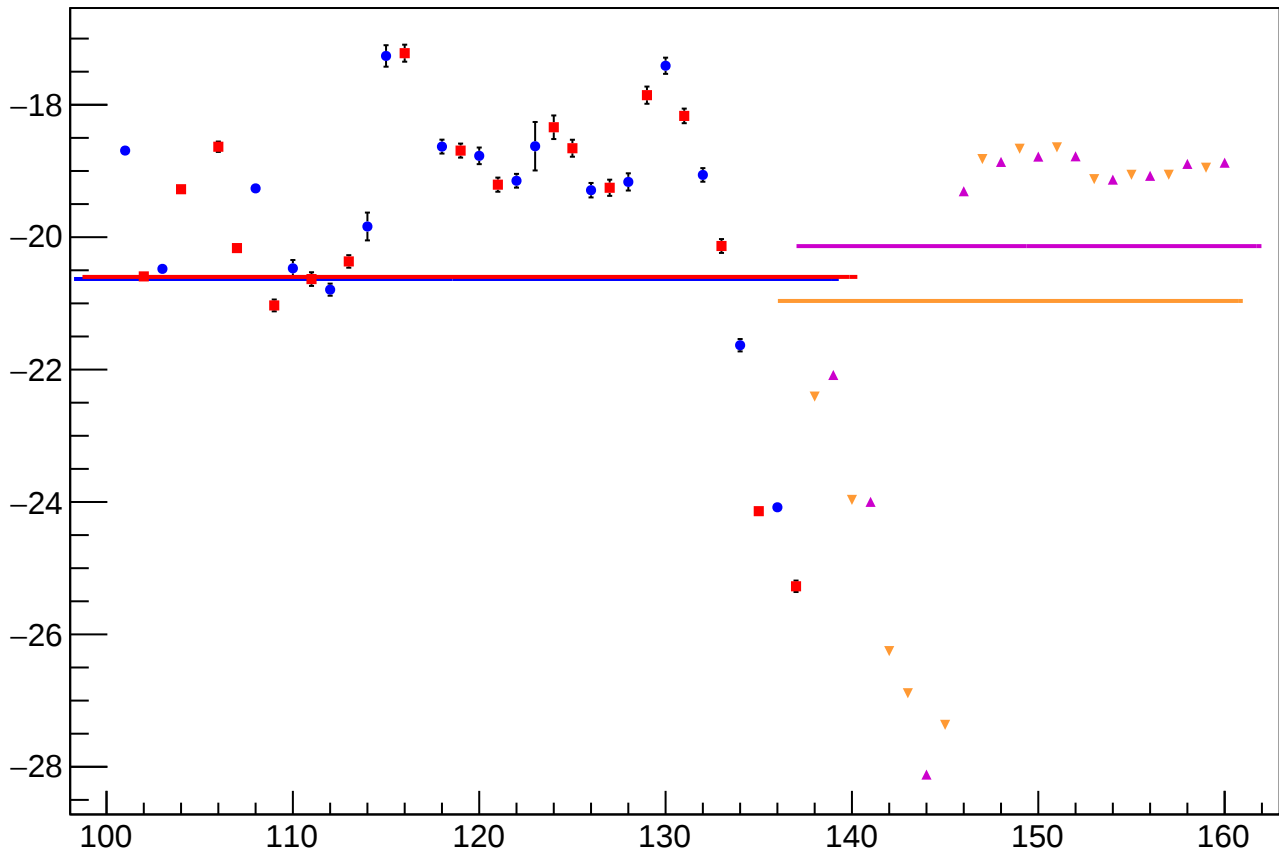
Right:  $4.542 \pm 0.259$   $\chi^2/\text{NDF}: 819.9/34$

In:  $6.096 \pm 0.200$   $\chi^2/\text{NDF}: 774.7/27$

Out:  $5.700 \pm 0.202$   $\chi^2/\text{NDF}: 942.8/29$

All:  $5.900 \pm 0.142$   $\chi^2/\text{NDF}: 1719.5/57$

reg\_asym\_right\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.631+/-0.019  $\chi^2/\text{NDF}$ : 12501.6/16

Left Out: -20.963+/-0.012  $\chi^2/\text{NDF}$ : 71774.6/11

Right Out: -20.600+/-0.019  $\chi^2/\text{NDF}$ : 11973.7/17

Left In: -20.135+/-0.011  $\chi^2/\text{NDF}$ : 46319.3/10

Left: -20.541+/-0.008  $\chi^2/\text{NDF}$ : 120643.7/22

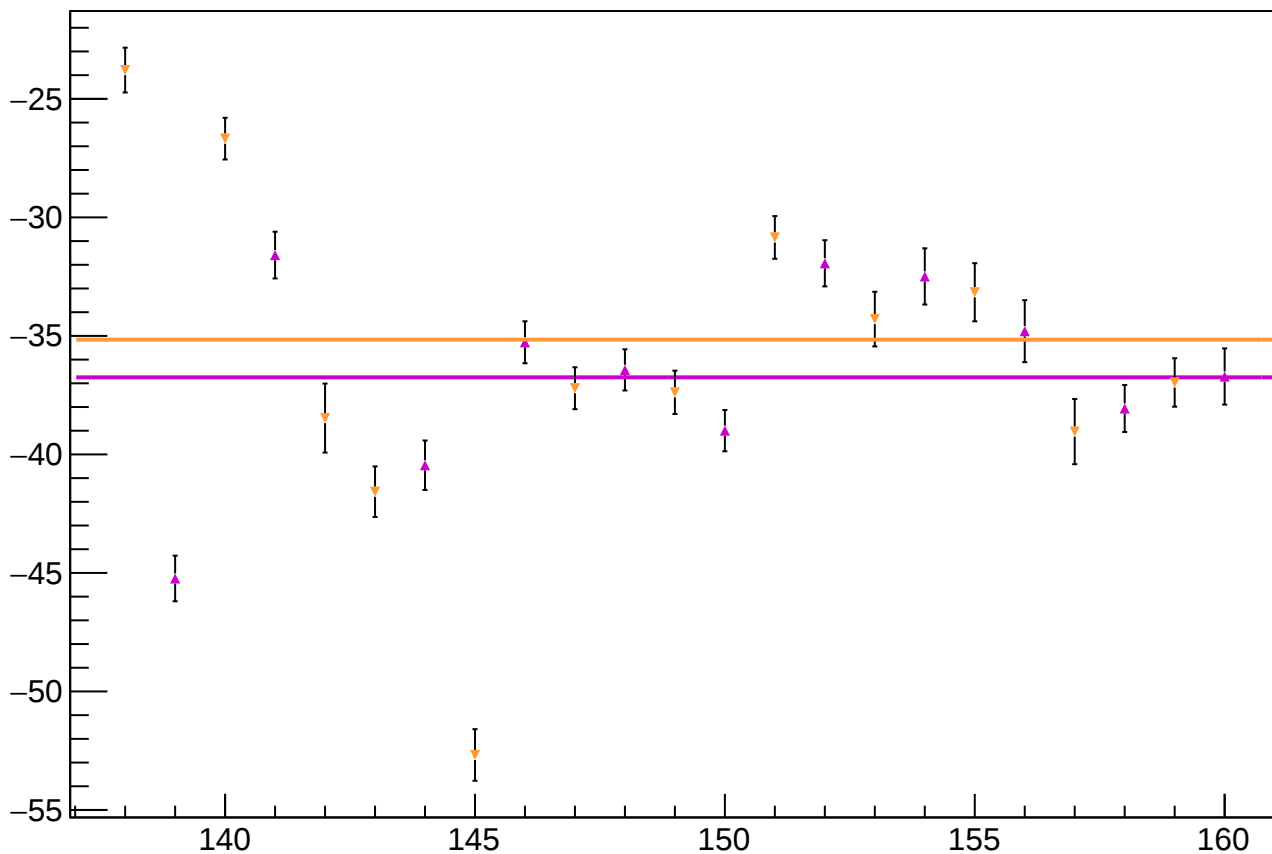
Right: -20.616+/-0.014  $\chi^2/\text{NDF}$ : 24476.6/34

In: -20.265+/-0.010  $\chi^2/\text{NDF}$ : 59310.1/27

Out: -20.867+/-0.010  $\chi^2/\text{NDF}$ : 84004.0/29

All: -20.560+/-0.007  $\chi^2/\text{NDF}$ : 145142.5/57

reg\_asym\_right\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.158+/-0.299  $\chi^2/\text{NDF}$ :586.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -36.748+/-0.301  $\chi^2/\text{NDF}$ :168.6/10

Left: -35.946+/-0.212  $\chi^2/\text{NDF}$ : 768.8/22

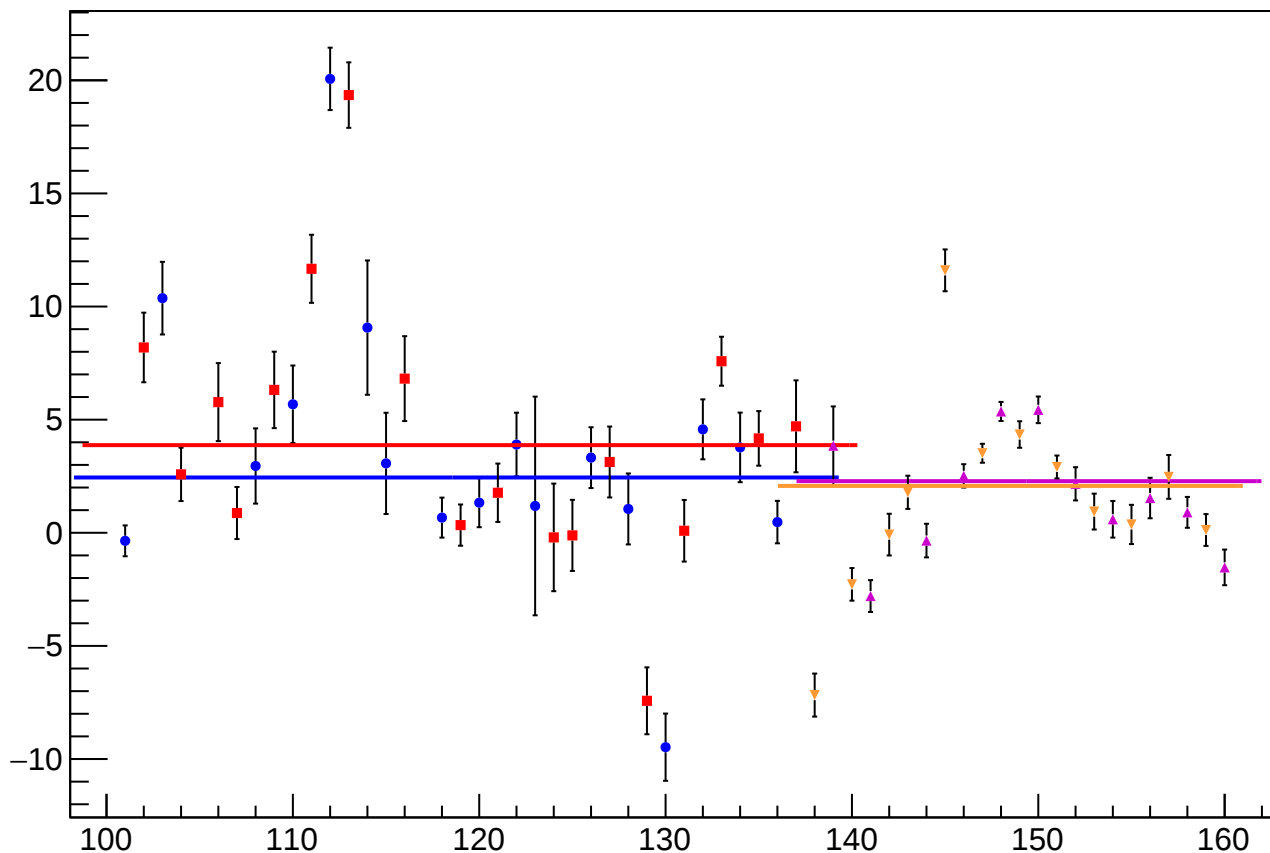
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -36.748+/-0.301  $\chi^2/\text{NDF}$ :168.6/10

Out: -35.158+/-0.299  $\chi^2/\text{NDF}$ :586.2/11

All: -35.946+/-0.212  $\chi^2/\text{NDF}$ : 768.8/22

reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $2.444 \pm 0.312$   $\chi^2/\text{NDF}$ : 292.7/16

Left Out:  $2.072 \pm 0.197$   $\chi^2/\text{NDF}$ : 286.1/11

Right Out:  $3.874 \pm 0.327$   $\chi^2/\text{NDF}$ : 268.3/17

Left In:  $2.282 \pm 0.201$   $\chi^2/\text{NDF}$ : 180.3/10

Left:  $2.175 \pm 0.141$   $\chi^2/\text{NDF}$ : 467.0/22

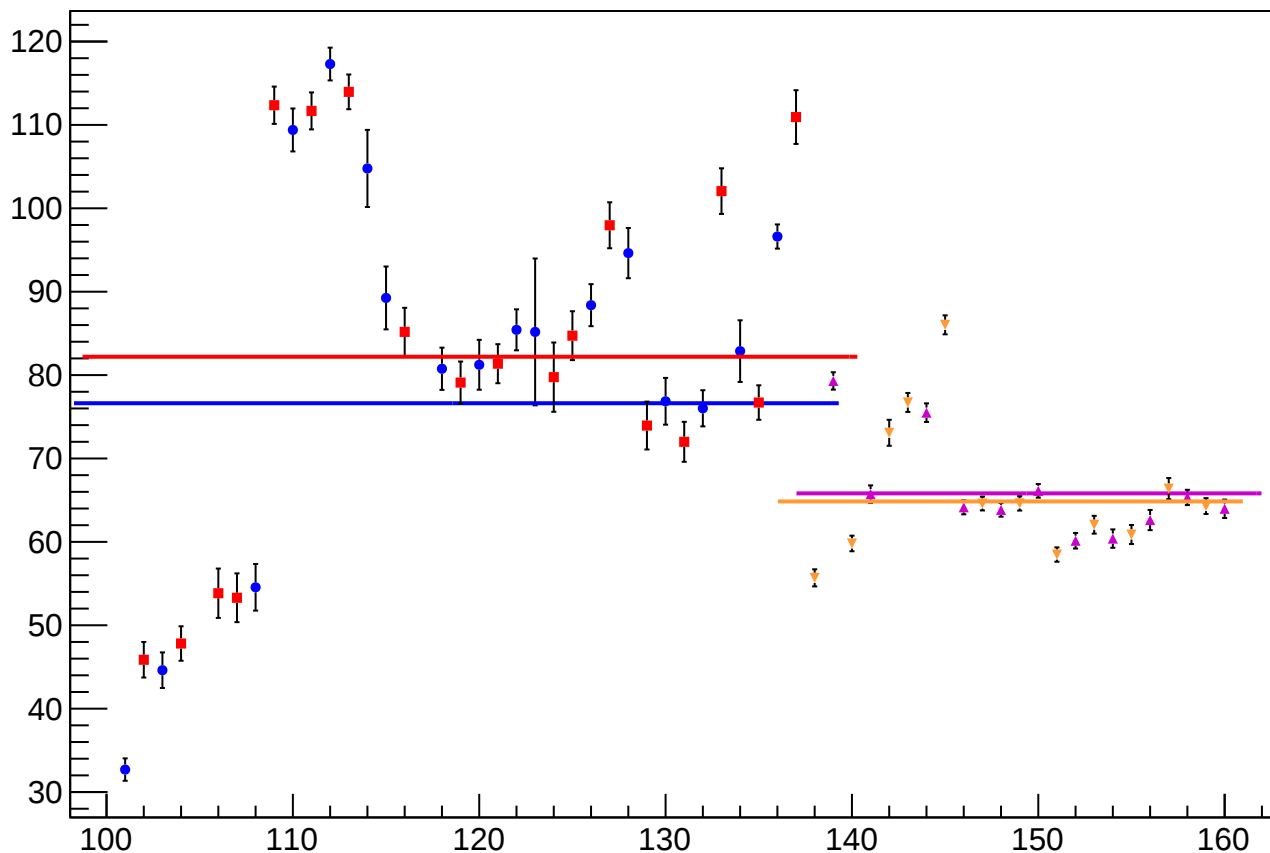
Right:  $3.125 \pm 0.226$   $\chi^2/\text{NDF}$ : 571.0/34

In:  $2.330 \pm 0.169$   $\chi^2/\text{NDF}$ : 473.2/27

Out:  $2.552 \pm 0.169$   $\chi^2/\text{NDF}$ : 576.7/29

All:  $2.441 \pm 0.119$   $\chi^2/\text{NDF}$ : 1050.8/57

reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 76.626 $\pm$ 0.574  $\chi^2$ /NDF: 2262.8/16

Left Out: 64.849 $\pm$ 0.293  $\chi^2$ /NDF: 667.7/11

Right Out: 82.201 $\pm$ 0.593  $\chi^2$ /NDF: 1550.2/17

Left In: 65.816 $\pm$ 0.292  $\chi^2$ /NDF: 324.0/10

Left: 65.335 $\pm$ 0.207  $\chi^2$ /NDF: 997.2/22

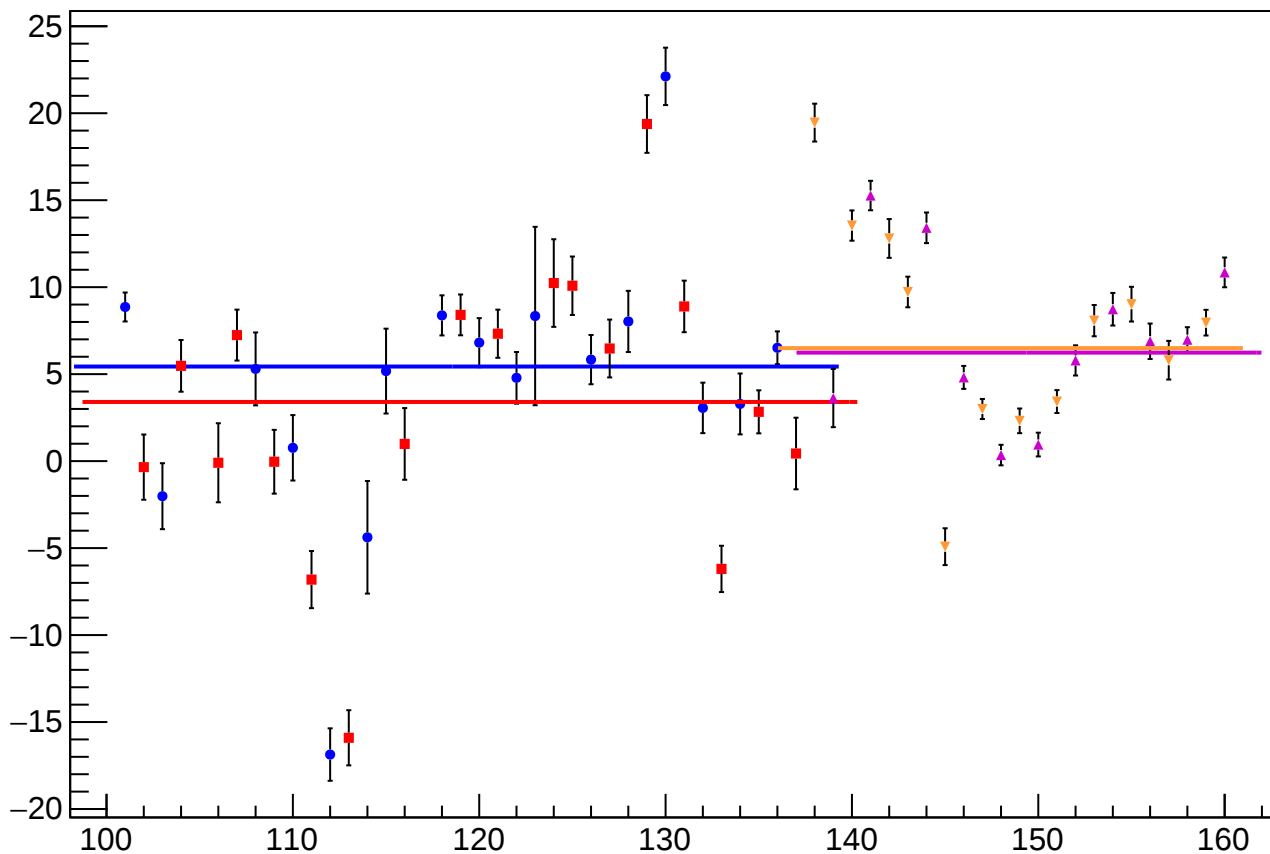
Right: 79.325 $\pm$ 0.413  $\chi^2$ /NDF: 3858.6/34

In: 68.038 $\pm$ 0.260  $\chi^2$ /NDF: 2868.1/27

Out: 68.263 $\pm$ 0.263  $\chi^2$ /NDF: 2905.8/29

All: 68.149 $\pm$ 0.185  $\chi^2$ /NDF: 5774.3/57

reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $5.437 \pm 0.358$   $\chi^2/\text{NDF}$ : 384.5/16

Left Out:  $6.496 \pm 0.240$   $\chi^2/\text{NDF}$ : 476.2/11

Right Out:  $3.401 \pm 0.375$   $\chi^2/\text{NDF}$ : 420.9/17

Left In:  $6.237 \pm 0.242$   $\chi^2/\text{NDF}$ : 385.0/10

Left:  $6.367 \pm 0.170$   $\chi^2/\text{NDF}$ : 861.8/22

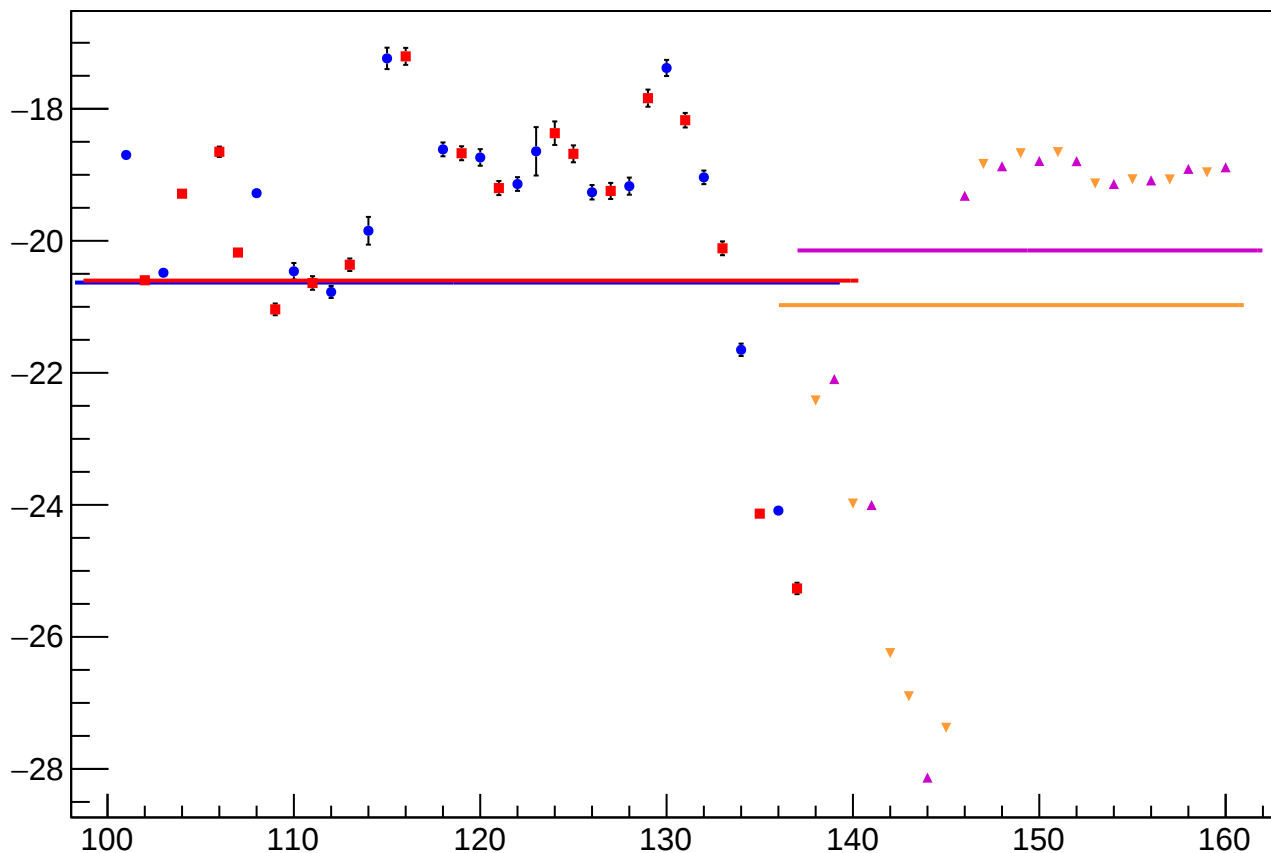
Right:  $4.467 \pm 0.259$   $\chi^2/\text{NDF}$ : 820.8/34

In:  $5.986 \pm 0.200$   $\chi^2/\text{NDF}$ : 773.0/27

Out:  $5.597 \pm 0.202$   $\chi^2/\text{NDF}$ : 945.3/29

All:  $5.794 \pm 0.142$   $\chi^2/\text{NDF}$ : 1720.1/57

reg\_asym\_right\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -20.632 $\pm$ 0.019  $\chi^2$ /NDF: 12543.2/16

Left Out: -20.974 $\pm$ 0.012  $\chi^2$ /NDF: 71618.0/11

Right Out: -20.603 $\pm$ 0.019  $\chi^2$ /NDF: 11925.8/17

Left In: -20.146 $\pm$ 0.011  $\chi^2$ /NDF: 46248.9/10

Left: -20.552 $\pm$ 0.008  $\chi^2$ /NDF: 120411.0/22

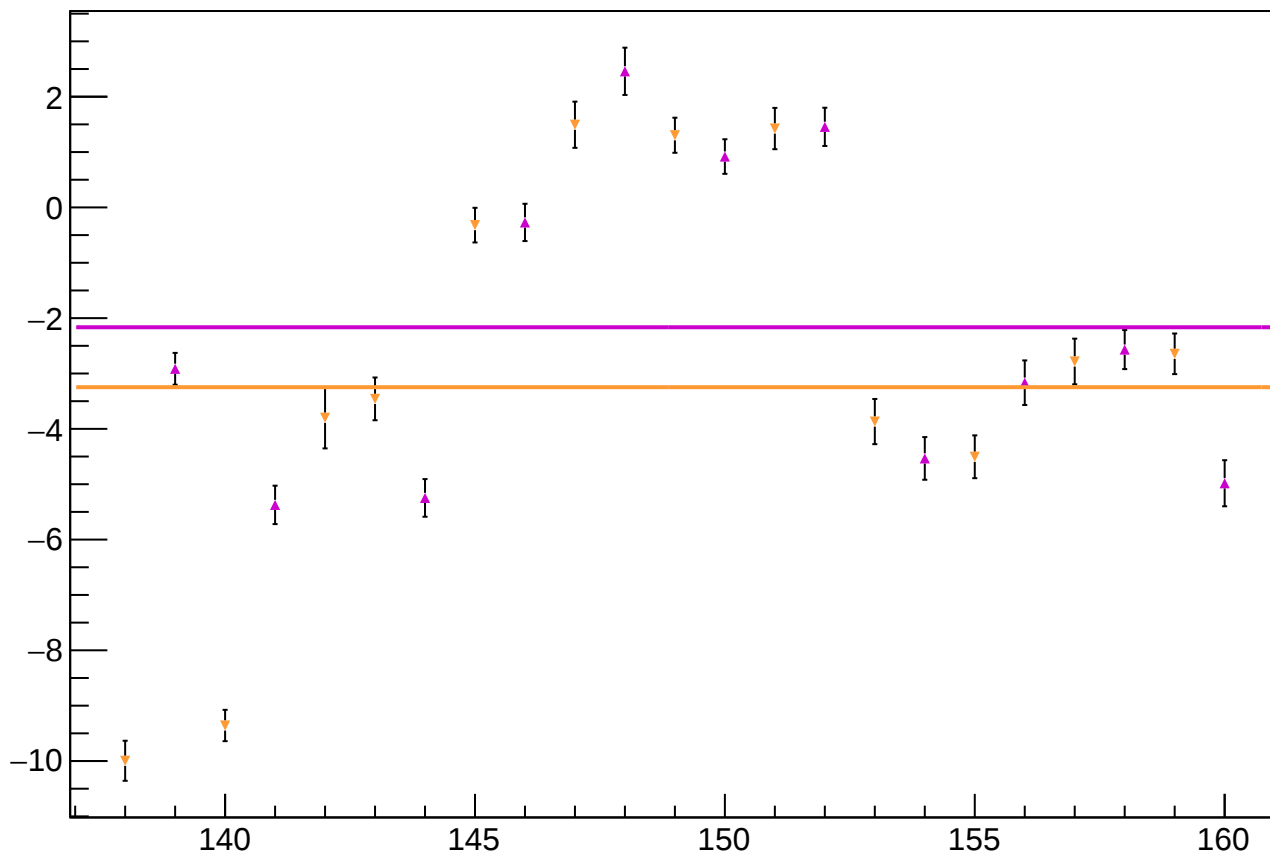
Right: -20.618 $\pm$ 0.014  $\chi^2$ /NDF: 24470.2/34

In: -20.273 $\pm$ 0.010  $\chi^2$ /NDF: 59260.8/27

Out: -20.875 $\pm$ 0.010  $\chi^2$ /NDF: 83810.4/29

All: -20.569 $\pm$ 0.007  $\chi^2$ /NDF: 144898.3/57

reg\_asym\_sam\_15\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.247+/-0.106  $\chi^2/\text{NDF}$ :1412.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.165+/-0.106  $\chi^2/\text{NDF}$ :621.9/10

Left: -2.707+/-0.075  $\chi^2/\text{NDF}$ : 2086.5/22

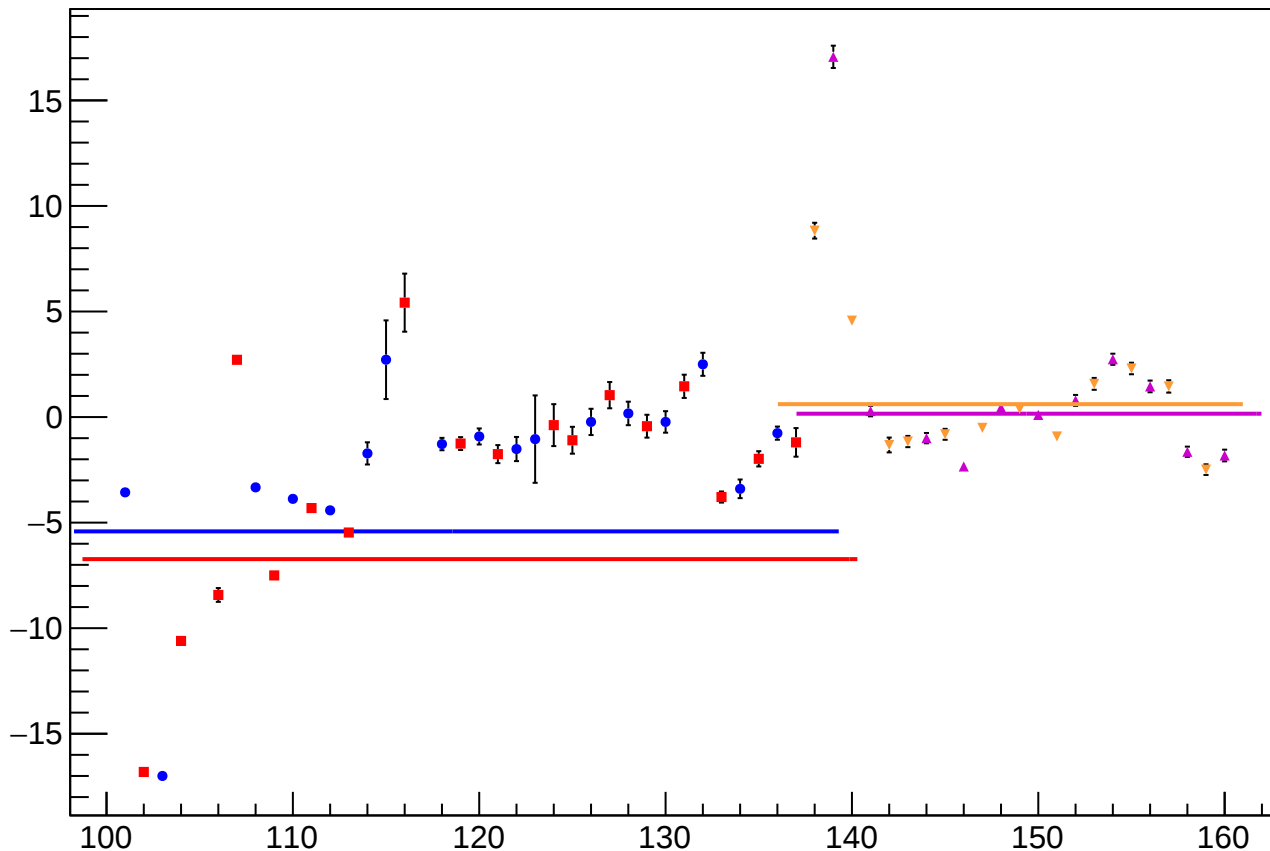
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -2.165+/-0.106  $\chi^2/\text{NDF}$ :621.9/10

Out: -3.247+/-0.106  $\chi^2/\text{NDF}$ :1412.4/11

All: -2.707+/-0.075  $\chi^2/\text{NDF}$ : 2086.5/22

reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-5.415 \pm 0.055$   $\chi^2/\text{NDF}$ : 9255.1/16

Left Out:  $0.611 \pm 0.074$   $\chi^2/\text{NDF}$ : 1158.5/11

Right Out:  $-6.729 \pm 0.060$   $\chi^2/\text{NDF}$ : 11217.0/17

Left In:  $0.159 \pm 0.076$   $\chi^2/\text{NDF}$ : 1412.0/10

Left:  $0.391 \pm 0.053$   $\chi^2/\text{NDF}$ : 2588.9/22

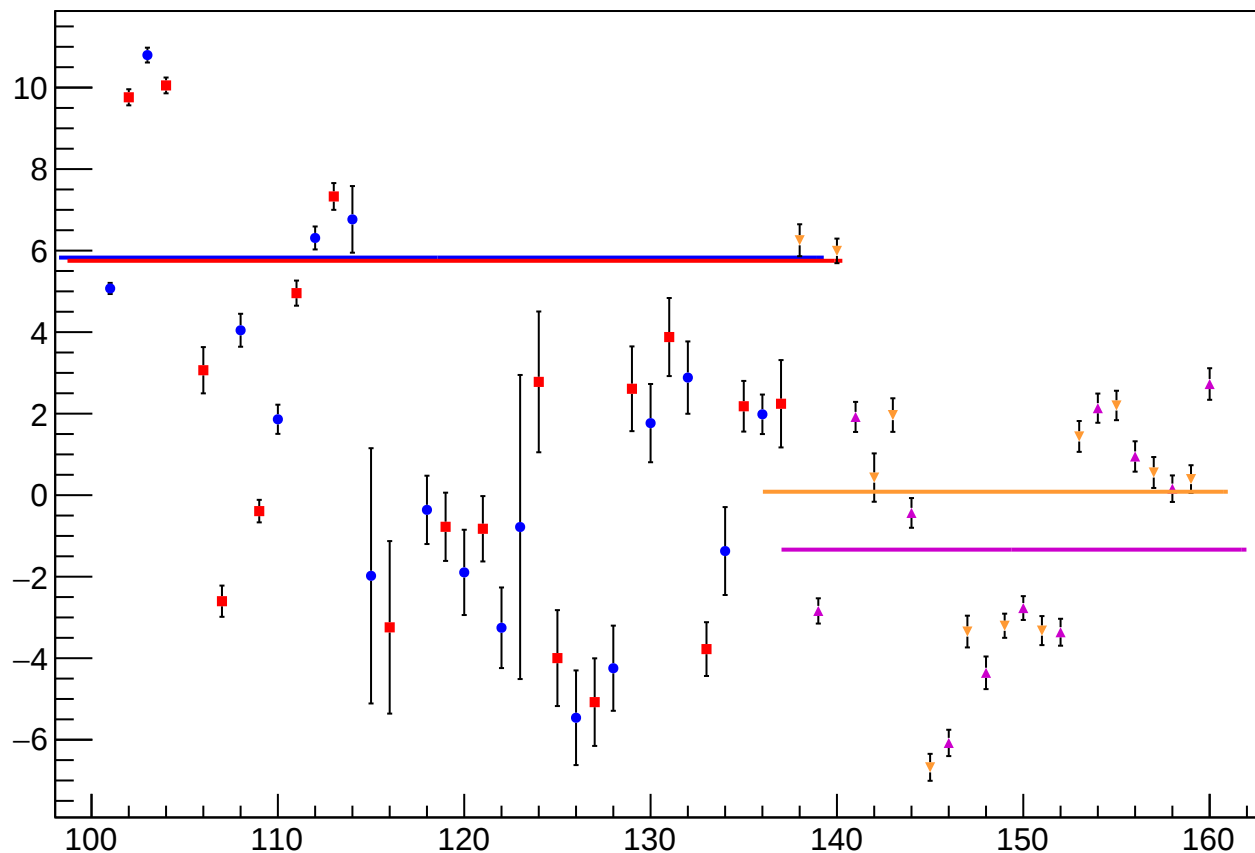
Right:  $-6.014 \pm 0.040$   $\chi^2/\text{NDF}$ : 20734.4/34

In:  $-3.495 \pm 0.044$   $\chi^2/\text{NDF}$ : 14236.3/27

Out:  $-3.811 \pm 0.046$   $\chi^2/\text{NDF}$ : 18361.2/29

All:  $-3.646 \pm 0.032$   $\chi^2/\text{NDF}$ : 32621.6/57

reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.829 \pm 0.090$   $\chi^2/\text{NDF}: 1448.3/16$

Left Out:  $0.084 \pm 0.105$   $\chi^2/\text{NDF}: 1412.8/11$

Right Out:  $5.750 \pm 0.096$   $\chi^2/\text{NDF}: 2511.0/17$

Left In:  $-1.336 \pm 0.104$   $\chi^2/\text{NDF}: 704.5/10$

Left:  $-0.632 \pm 0.074$   $\chi^2/\text{NDF}: 2210.4/22$

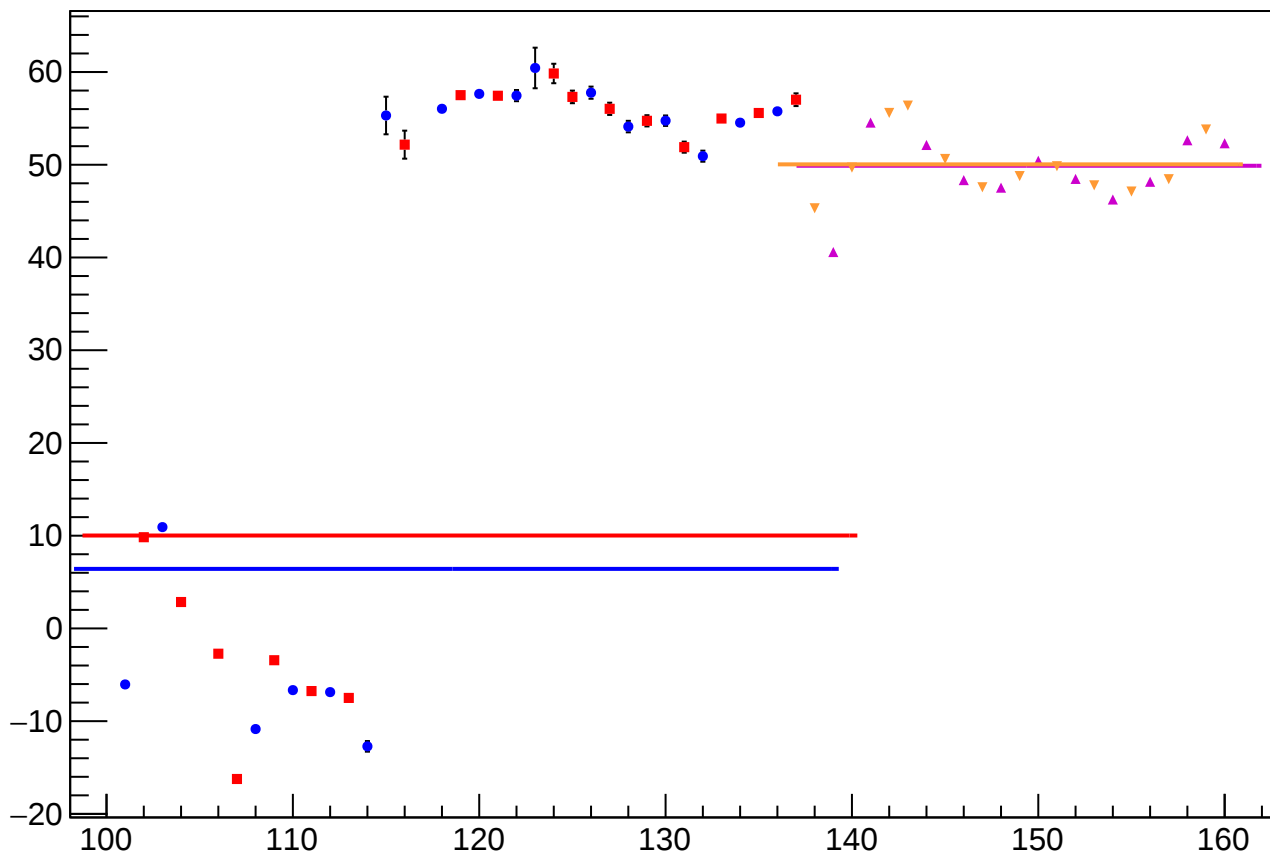
Right:  $5.792 \pm 0.066$   $\chi^2/\text{NDF}: 3959.6/34$

In:  $2.764 \pm 0.068$   $\chi^2/\text{NDF}: 4887.4/27$

Out:  $3.152 \pm 0.071$   $\chi^2/\text{NDF}: 5513.7/29$

All:  $2.949 \pm 0.049$   $\chi^2/\text{NDF}: 10416.8/57$

reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $6.421 \pm 0.065$   $\chi^2/\text{NDF}: 123109.7/16$

Left Out:  $50.042 \pm 0.088$   $\chi^2/\text{NDF}: 1161.7/11$

Right Out:  $10.019 \pm 0.071$   $\chi^2/\text{NDF}: 122082.4/17$

Left In:  $49.890 \pm 0.089$   $\chi^2/\text{NDF}: 1114.6/10$

Left:  $49.967 \pm 0.062$   $\chi^2/\text{NDF}: 2277.8/22$

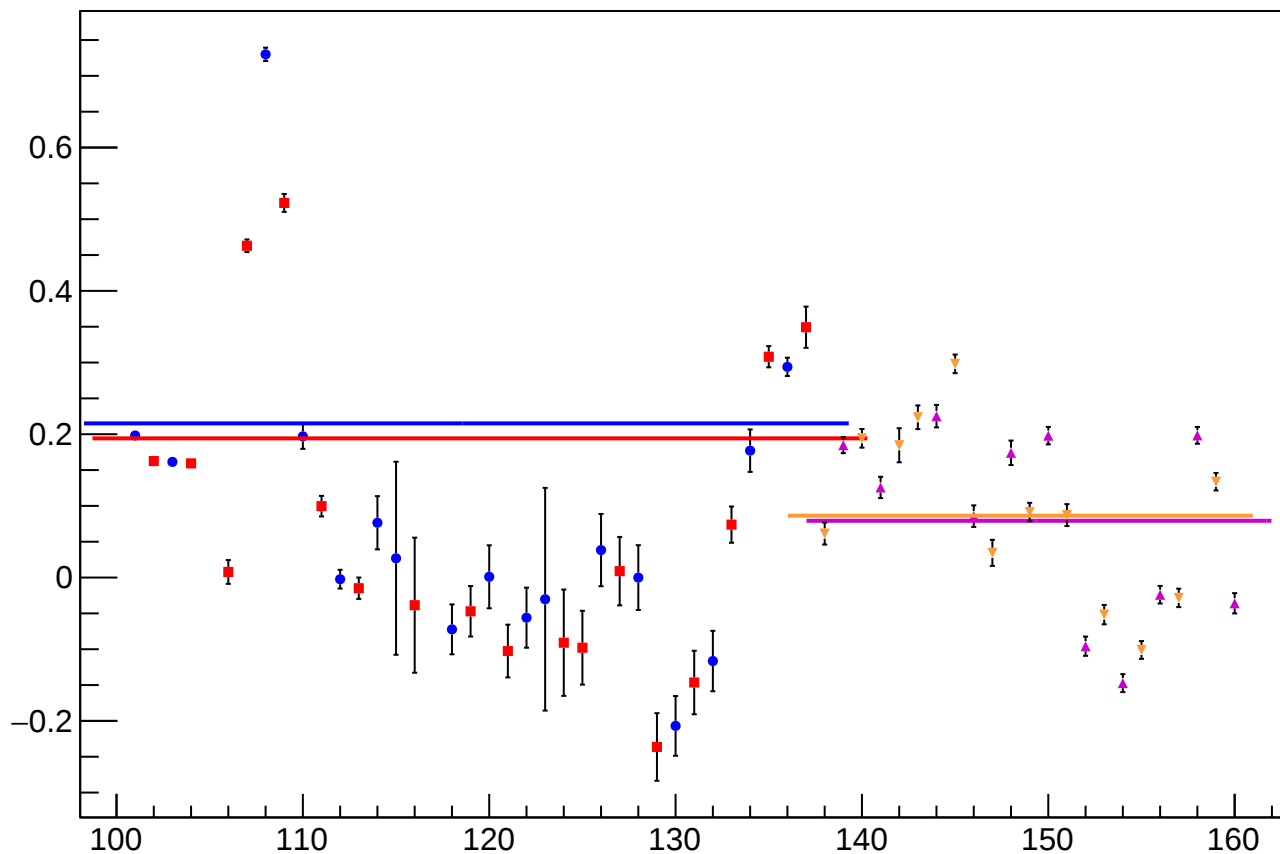
Right:  $8.061 \pm 0.048$   $\chi^2/\text{NDF}: 246600.2/34$

In:  $21.551 \pm 0.052$   $\chi^2/\text{NDF}: 281186.9/27$

Out:  $25.775 \pm 0.055$   $\chi^2/\text{NDF}: 249325.3/29$

All:  $23.553 \pm 0.038$   $\chi^2/\text{NDF}: 533607.3/57$

reg\_asym\_sam\_15\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.215 \pm 0.003$   $\chi^2/\text{NDF}$ : 3927.2/16

Left Out:  $0.086 \pm 0.004$   $\chi^2/\text{NDF}$ : 859.3/11

Right Out:  $0.194 \pm 0.003$   $\chi^2/\text{NDF}$ : 2520.1/17

Left In:  $0.079 \pm 0.004$   $\chi^2/\text{NDF}$ : 1048.7/10

Left:  $0.083 \pm 0.003$   $\chi^2/\text{NDF}$ : 1909.5/22

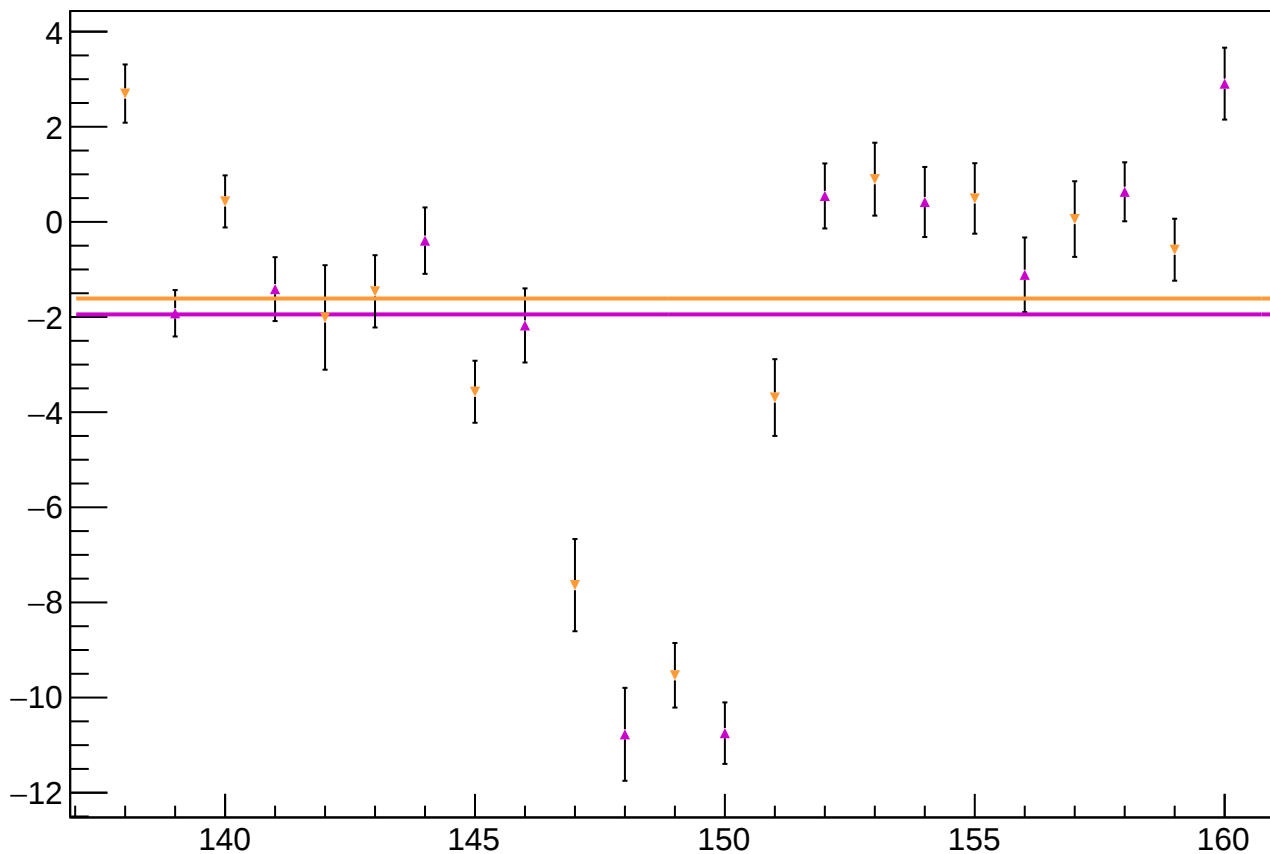
Right:  $0.205 \pm 0.002$   $\chi^2/\text{NDF}$ : 6475.9/34

In:  $0.171 \pm 0.002$   $\chi^2/\text{NDF}$ : 5752.4/27

Out:  $0.161 \pm 0.002$   $\chi^2/\text{NDF}$ : 3857.7/29

All:  $0.166 \pm 0.002$   $\chi^2/\text{NDF}$ : 9620.9/57

reg\_asym\_sam\_15\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected

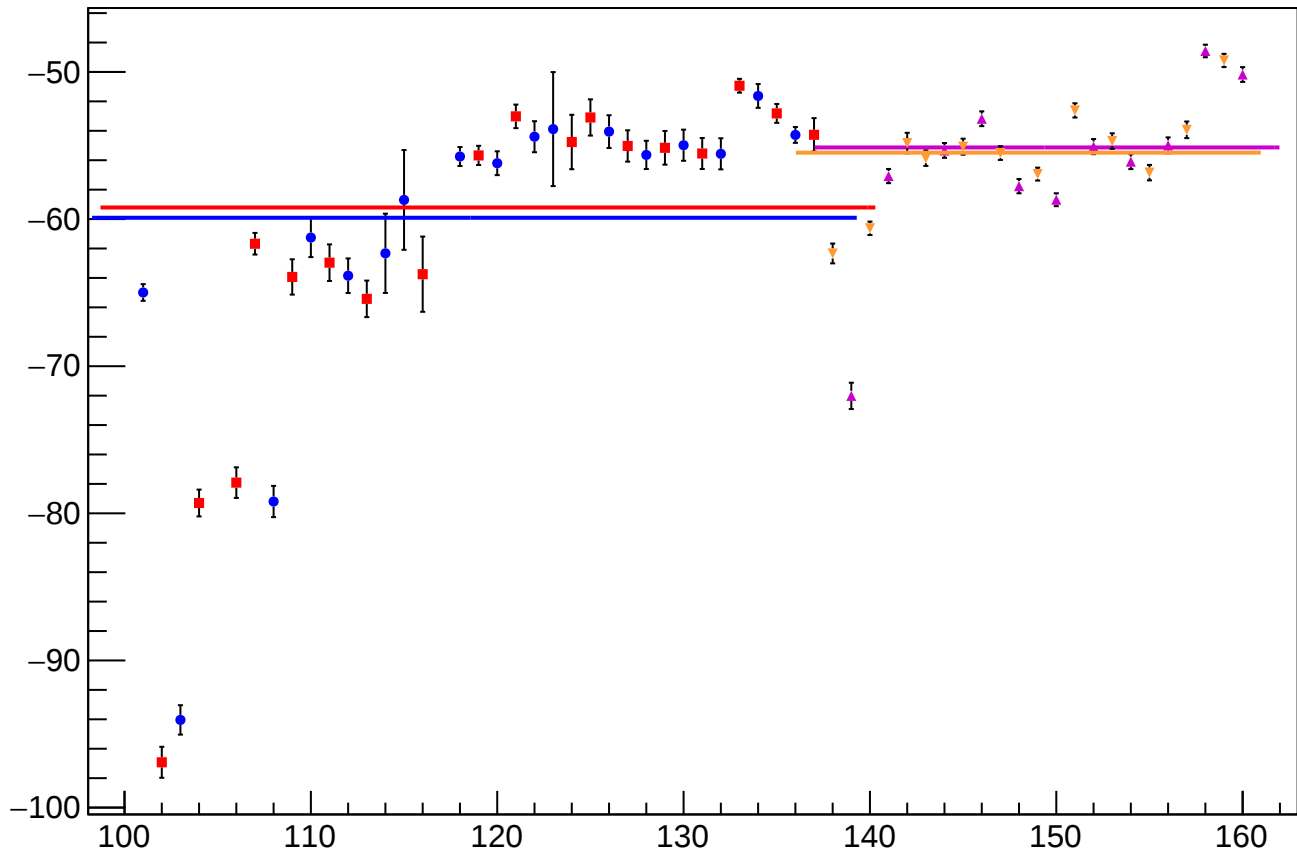


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -1.611+/-0.208  $\chi^2/\text{NDF}$ :279.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -1.945+/-0.206  $\chi^2/\text{NDF}$ :355.9/10

Left: -1.779+/-0.146  $\chi^2/\text{NDF}$ : 636.9/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -1.945+/-0.206  $\chi^2/\text{NDF}$ :355.9/10  
 Out: -1.611+/-0.208  $\chi^2/\text{NDF}$ :279.7/11

All: -1.779+/-0.146  $\chi^2/\text{NDF}$ : 636.9/22

reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-59.911 \pm 0.223$   $\chi^2/\text{NDF}$ : 1980.8/16

Left Out:  $-55.487 \pm 0.149$   $\chi^2/\text{NDF}$ : 488.3/11

Right Out:  $-59.212 \pm 0.212$   $\chi^2/\text{NDF}$ : 2742.9/17

Left In:  $-55.131 \pm 0.152$   $\chi^2/\text{NDF}$ : 815.7/10

Left:  $-55.313 \pm 0.106$   $\chi^2/\text{NDF}$ : 1306.8/22

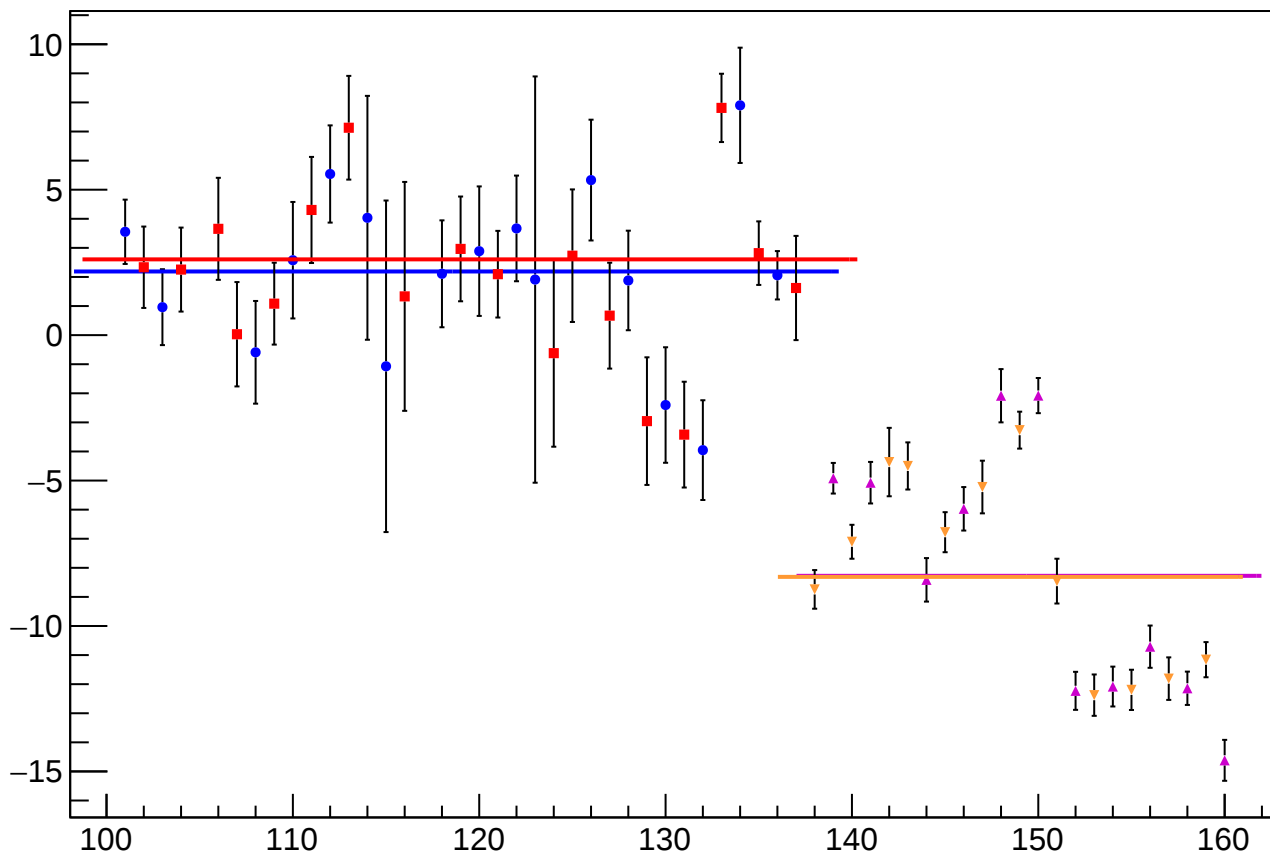
Right:  $-59.544 \pm 0.154$   $\chi^2/\text{NDF}$ : 4728.9/34

In:  $-56.645 \pm 0.126$   $\chi^2/\text{NDF}$ : 3109.8/27

Out:  $-56.712 \pm 0.122$   $\chi^2/\text{NDF}$ : 3437.7/29

All:  $-56.680 \pm 0.087$   $\chi^2/\text{NDF}$ : 6547.7/57

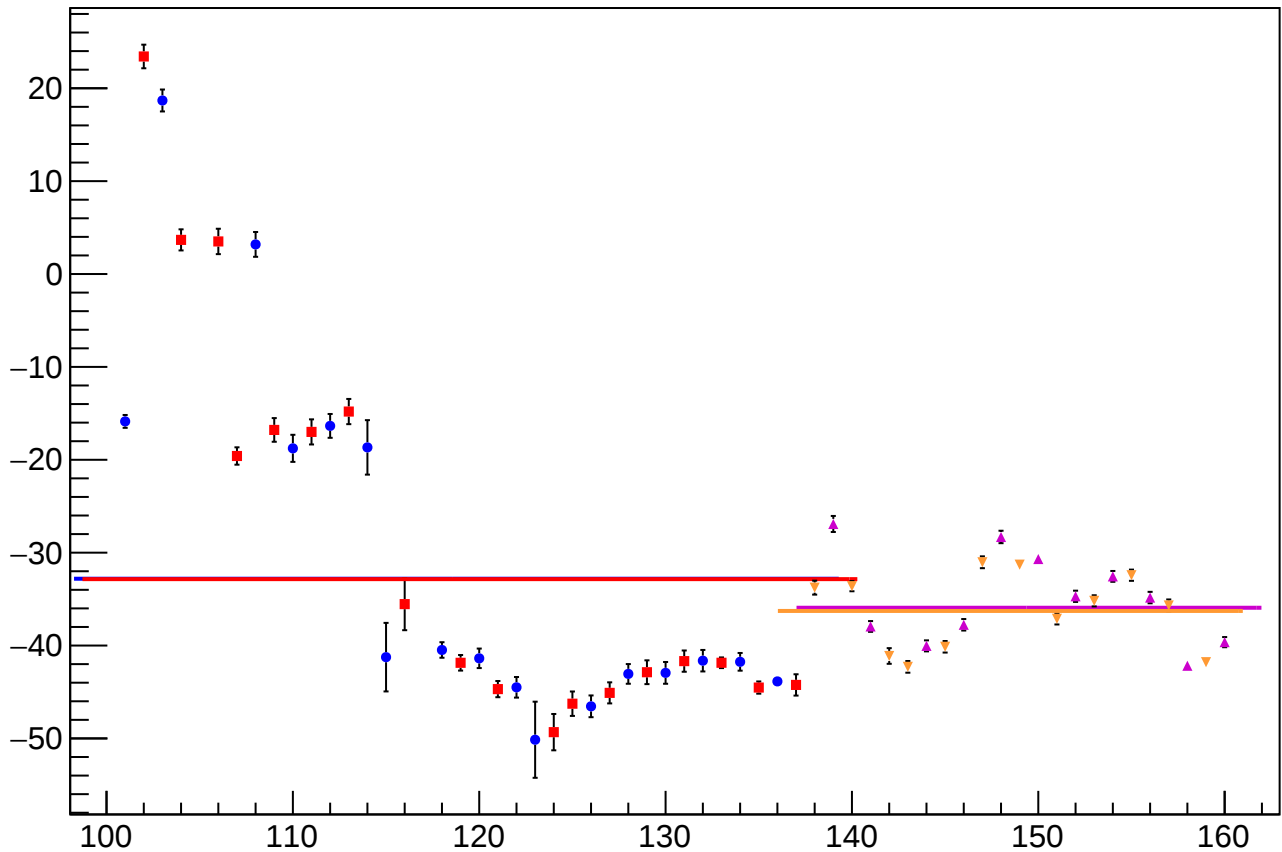
reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



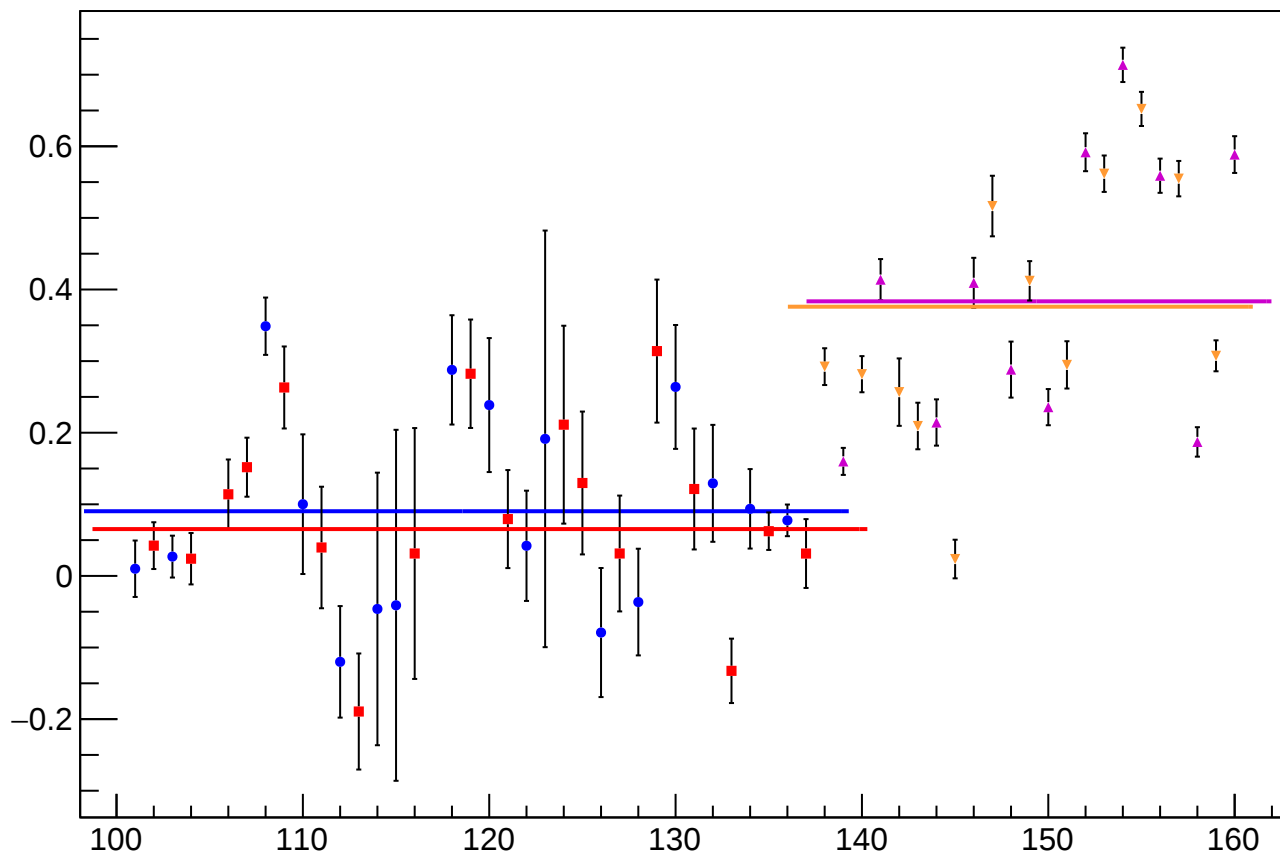
Right In:  $2.189 \pm 0.405$   $\chi^2/\text{NDF}: 39.1/16$   
 Left Out:  $-8.311 \pm 0.206$   $\chi^2/\text{NDF}: 227.2/11$   
 Right Out:  $2.605 \pm 0.391$   $\chi^2/\text{NDF}: 50.8/17$   
 Left In:  $-8.275 \pm 0.202$   $\chi^2/\text{NDF}: 426.5/10$

Left:  $-8.293 \pm 0.144$   $\chi^2/\text{NDF}: 653.6/22$   
 Right:  $2.404 \pm 0.281$   $\chi^2/\text{NDF}: 90.4/34$   
 In:  $-6.186 \pm 0.181$   $\chi^2/\text{NDF}: 1001.0/27$   
 Out:  $-5.943 \pm 0.182$   $\chi^2/\text{NDF}: 888.7/29$   
 All:  $-6.066 \pm 0.128$   $\chi^2/\text{NDF}: 1890.6/57$

reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



reg\_asym\_sam\_15\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.090 \pm 0.013$   $\chi^2/\text{NDF}: 79.4/16$

Left Out:  $0.376 \pm 0.008$   $\chi^2/\text{NDF}: 496.8/11$

Right Out:  $0.065 \pm 0.012$   $\chi^2/\text{NDF}: 65.7/17$

Left In:  $0.383 \pm 0.008$   $\chi^2/\text{NDF}: 669.6/10$

Left:  $0.380 \pm 0.006$   $\chi^2/\text{NDF}: 1166.8/22$

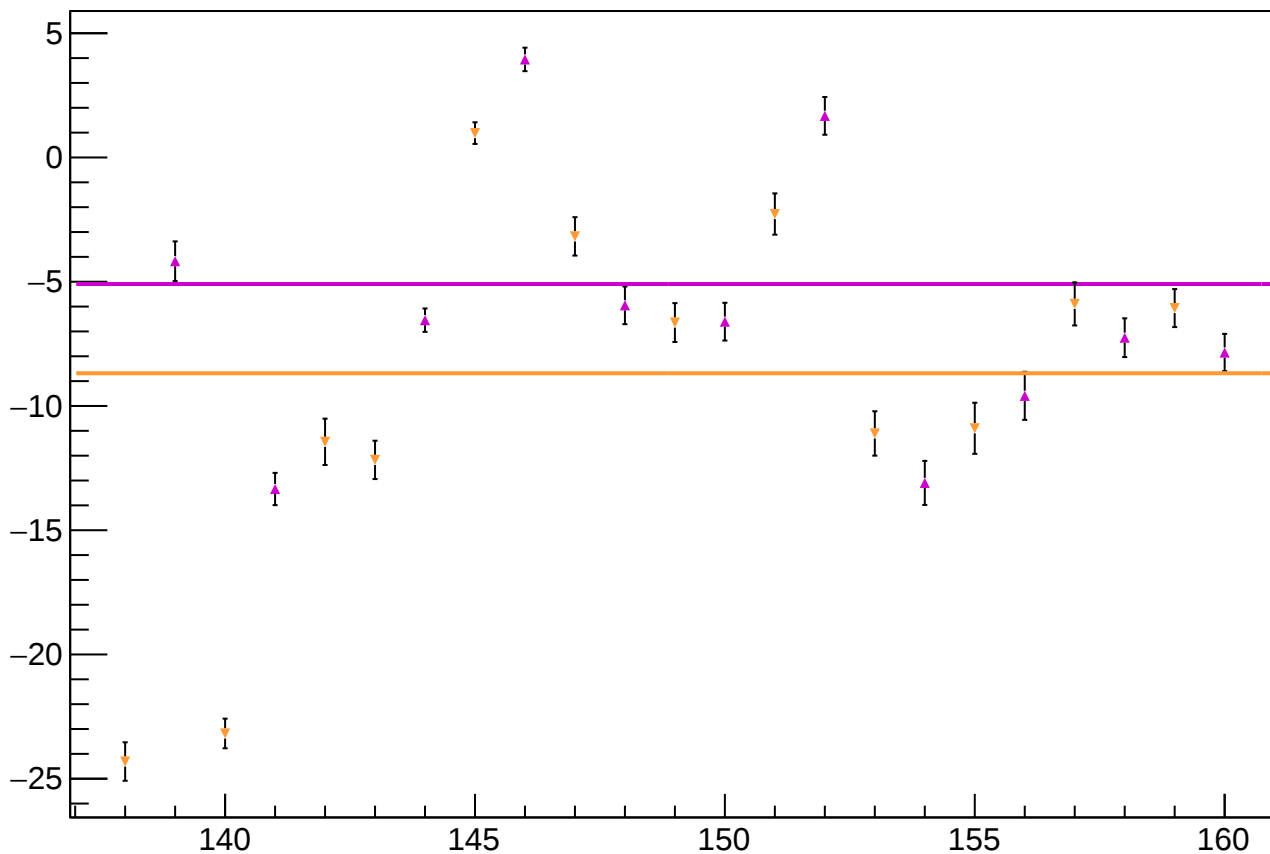
Right:  $0.077 \pm 0.009$   $\chi^2/\text{NDF}: 147.0/34$

In:  $0.305 \pm 0.007$   $\chi^2/\text{NDF}: 1137.0/27$

Out:  $0.284 \pm 0.007$   $\chi^2/\text{NDF}: 1014.4/29$

All:  $0.294 \pm 0.005$   $\chi^2/\text{NDF}: 2156.5/57$

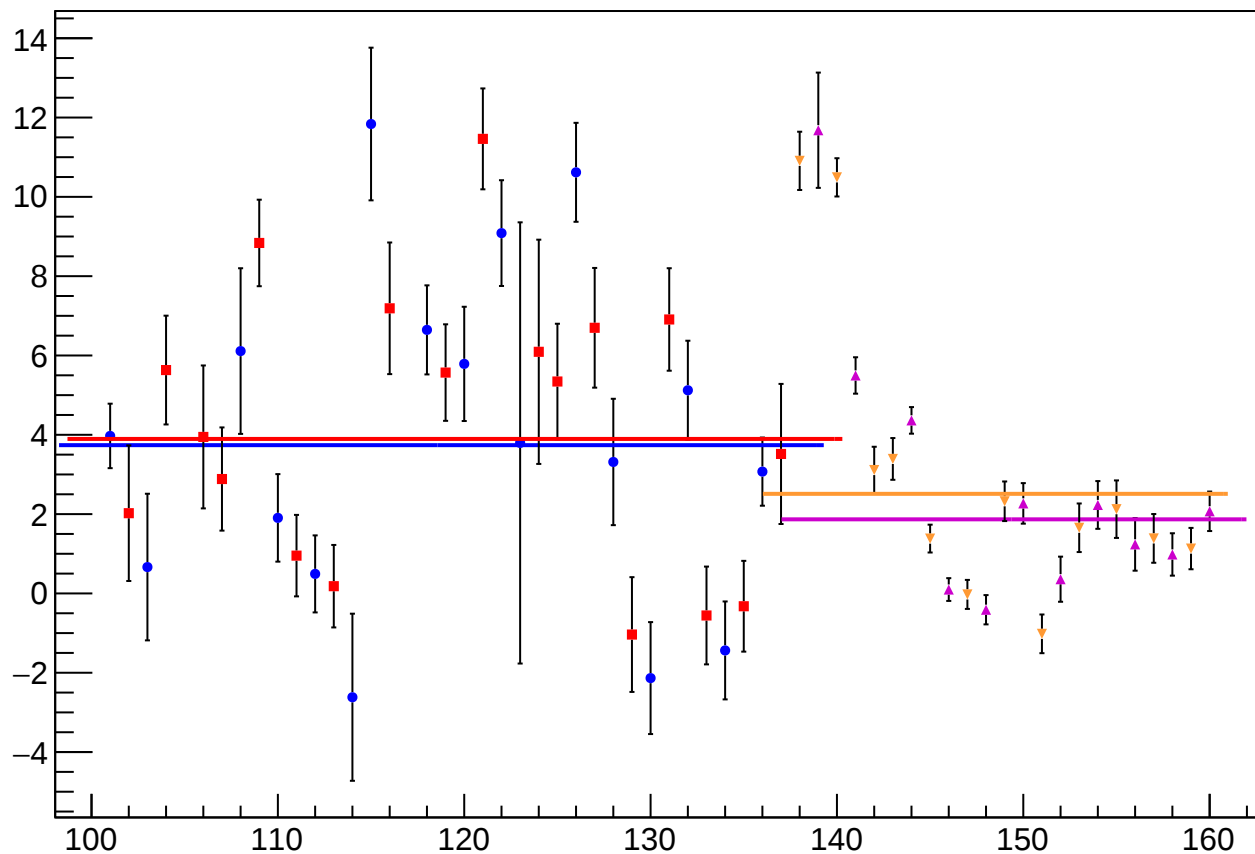
reg\_asym\_sam\_37\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -8.683+/-0.211  $\chi^2/\text{NDF}$ :1668.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.093+/-0.205  $\chi^2/\text{NDF}$ :747.1/10

Left: -6.837+/-0.147  $\chi^2/\text{NDF}$ : 2565.3/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.093+/-0.205  $\chi^2/\text{NDF}$ :747.1/10  
 Out: -8.683+/-0.211  $\chi^2/\text{NDF}$ :1668.7/11  
 All: -6.837+/-0.147  $\chi^2/\text{NDF}$ : 2565.3/22

reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 3.739 $\pm$ 0.309  $\chi^2$ /NDF: 136.9/16

Left Out: 2.511 $\pm$ 0.145  $\chi^2$ /NDF:531.6/11

Right Out: 3.896 $\pm$ 0.316  $\chi^2$ /NDF: 134.9/17

Left In: 1.868 $\pm$ 0.137  $\chi^2$ /NDF:251.5/10

Left: 2.172 $\pm$ 0.100  $\chi^2$ /NDF: 793.4/22

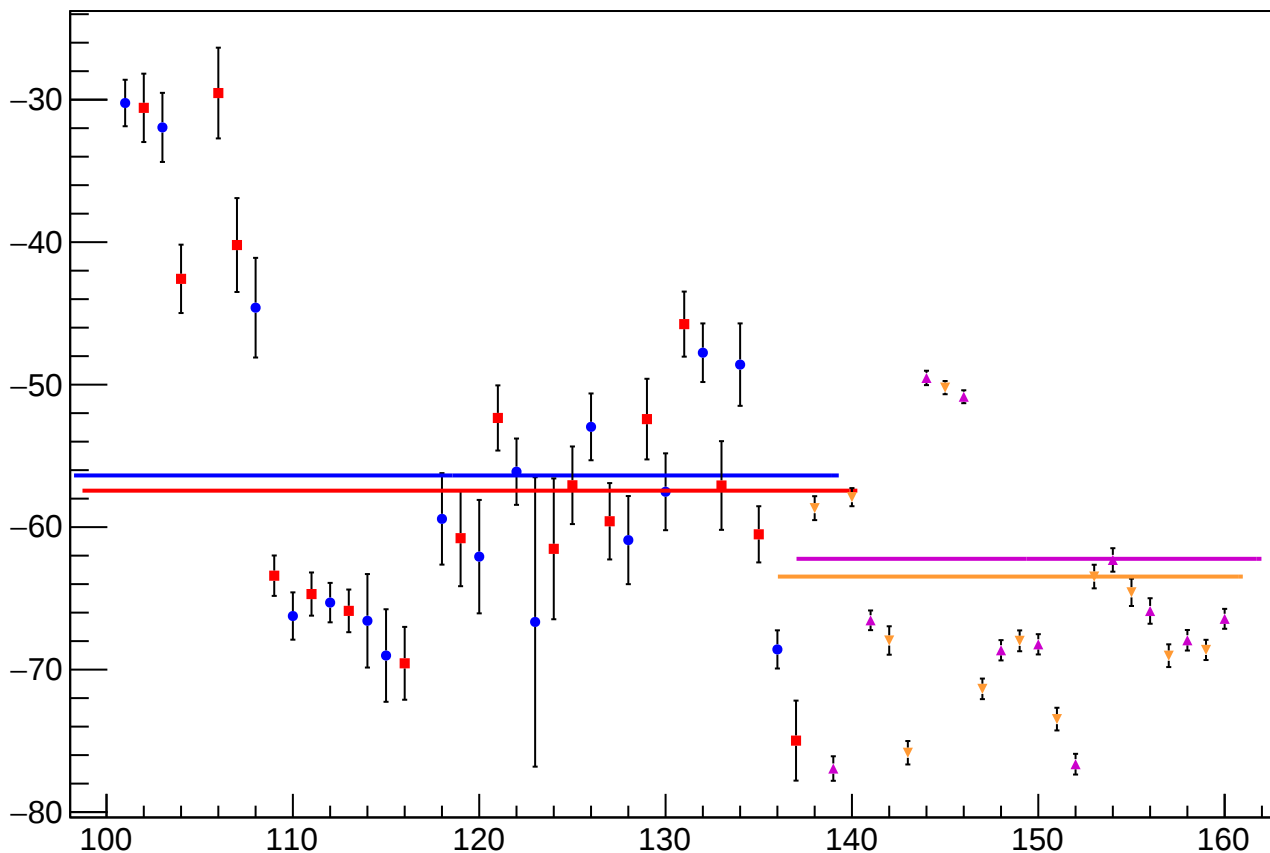
Right: 3.815 $\pm$ 0.221  $\chi^2$ /NDF: 271.9/34

In: 2.176 $\pm$ 0.125  $\chi^2$ /NDF:418.9/27

Out: 2.753 $\pm$ 0.132  $\chi^2$ /NDF:682.3/29

All: 2.450 $\pm$ 0.091  $\chi^2$ /NDF: 1111.2/57

reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-56.373 \pm 0.543$   $\chi^2/\text{NDF}: 587.6/16$

Left Out:  $-63.470 \pm 0.211$   $\chi^2/\text{NDF}: 1591.1/11$

Right Out:  $-57.440 \pm 0.537$   $\chi^2/\text{NDF}: 441.0/17$

Left In:  $-62.224 \pm 0.201$   $\chi^2/\text{NDF}: 2254.0/10$

Left:  $-62.817 \pm 0.145$   $\chi^2/\text{NDF}: 3863.4/22$

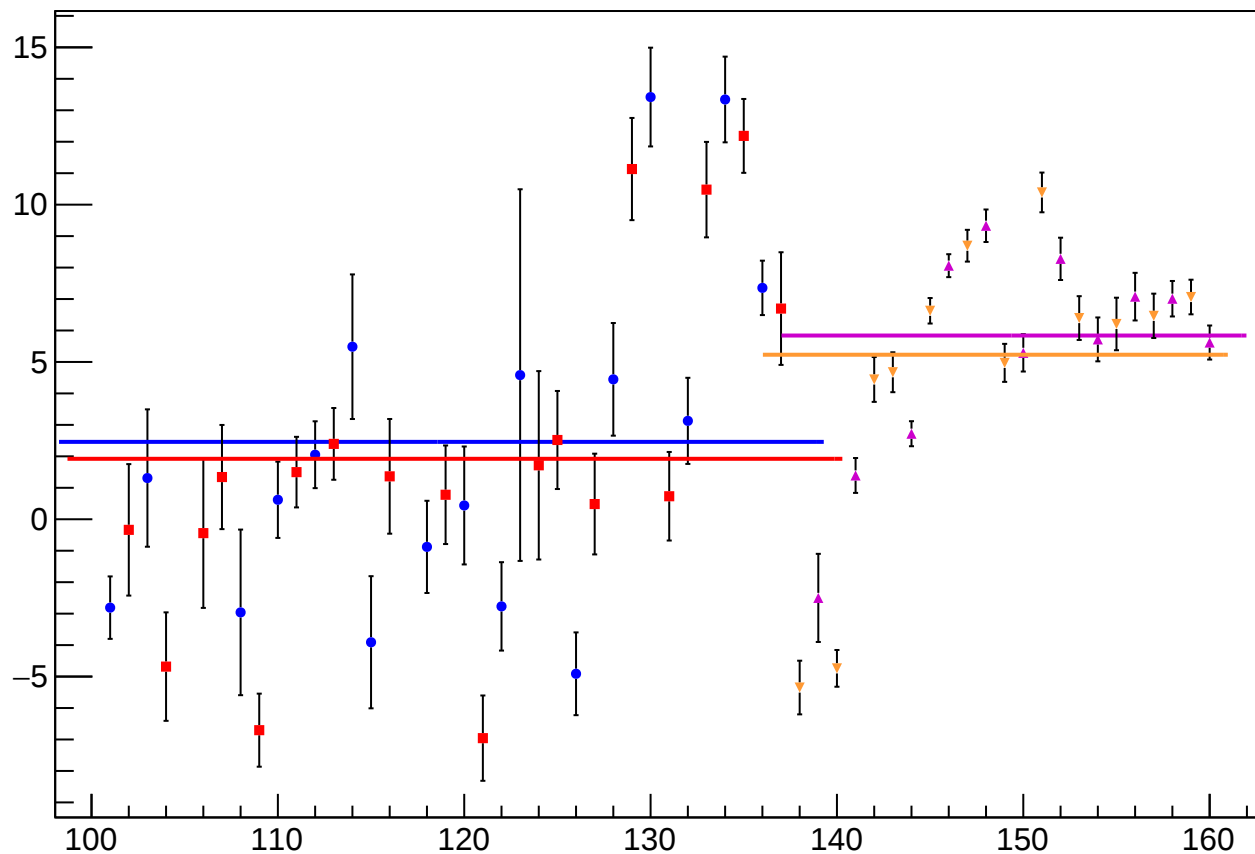
Right:  $-56.912 \pm 0.382$   $\chi^2/\text{NDF}: 1030.5/34$

In:  $-61.519 \pm 0.188$   $\chi^2/\text{NDF}: 2943.7/27$

Out:  $-62.665 \pm 0.196$   $\chi^2/\text{NDF}: 2141.4/29$

All:  $-62.069 \pm 0.136$   $\chi^2/\text{NDF}: 5102.8/57$

reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 2.460 $\pm$ 0.346  $\chi^2$ /NDF: 243.9/16

Left Out: 5.230 $\pm$ 0.175  $\chi^2$ /NDF:591.4/11

Right Out: 1.922 $\pm$ 0.355  $\chi^2$ /NDF: 265.1/17

Left In: 5.840 $\pm$ 0.165  $\chi^2$ /NDF:265.2/10

Left: 5.552 $\pm$ 0.120  $\chi^2$ /NDF: 863.0/22

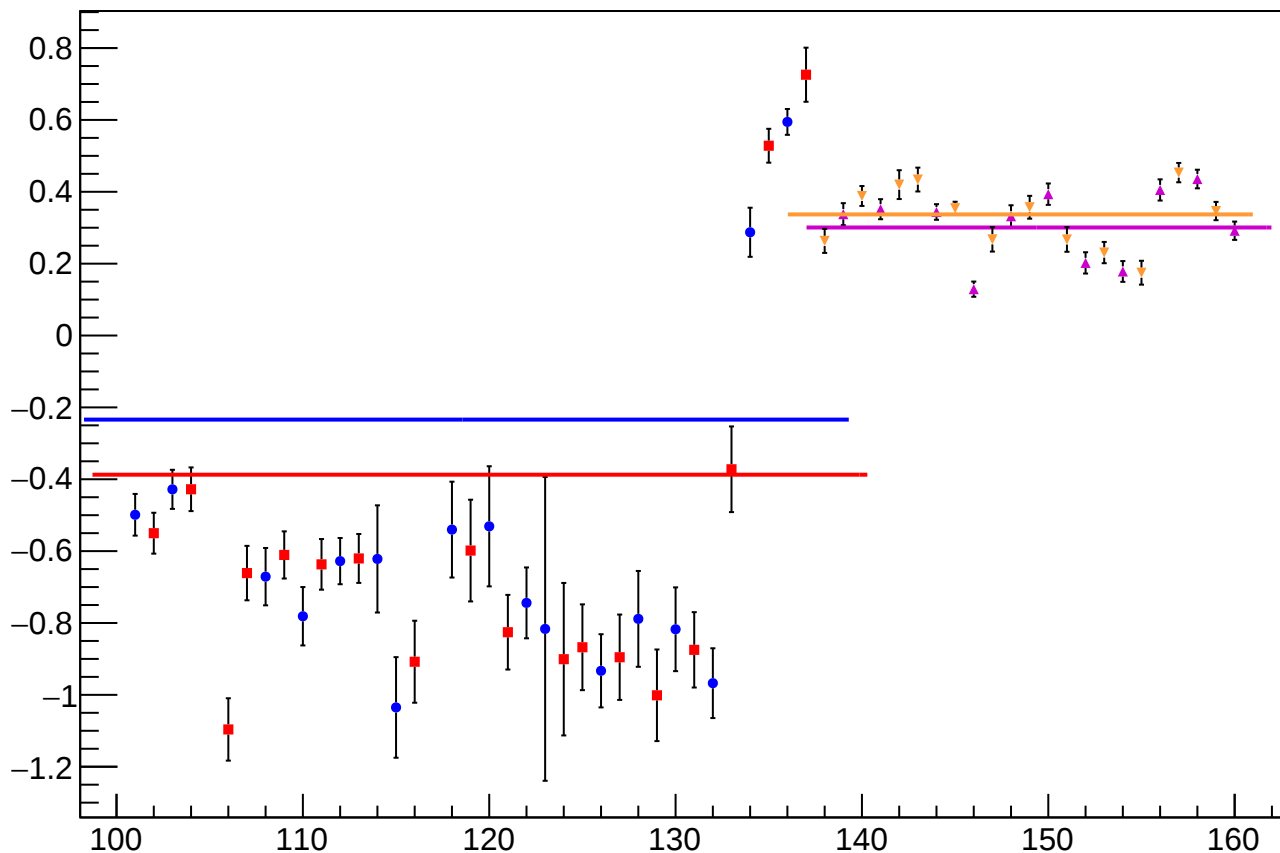
Right: 2.198 $\pm$ 0.248  $\chi^2$ /NDF: 510.2/34

In: 5.215 $\pm$ 0.149  $\chi^2$ /NDF:586.9/27

Out: 4.586 $\pm$ 0.157  $\chi^2$ /NDF:926.4/29

All: 4.916 $\pm$ 0.108  $\chi^2$ /NDF: 1521.7/57

reg\_asym\_sam\_37\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.234 \pm 0.019$   $\chi^2/\text{NDF}$ : 958.3/16

Left Out:  $0.337 \pm 0.008$   $\chi^2/\text{NDF}$ : 86.3/11

Right Out:  $-0.387 \pm 0.019$   $\chi^2/\text{NDF}$ : 846.6/17

Left In:  $0.301 \pm 0.008$   $\chi^2/\text{NDF}$ : 154.0/10

Left:  $0.318 \pm 0.006$   $\chi^2/\text{NDF}$ : 250.1/22

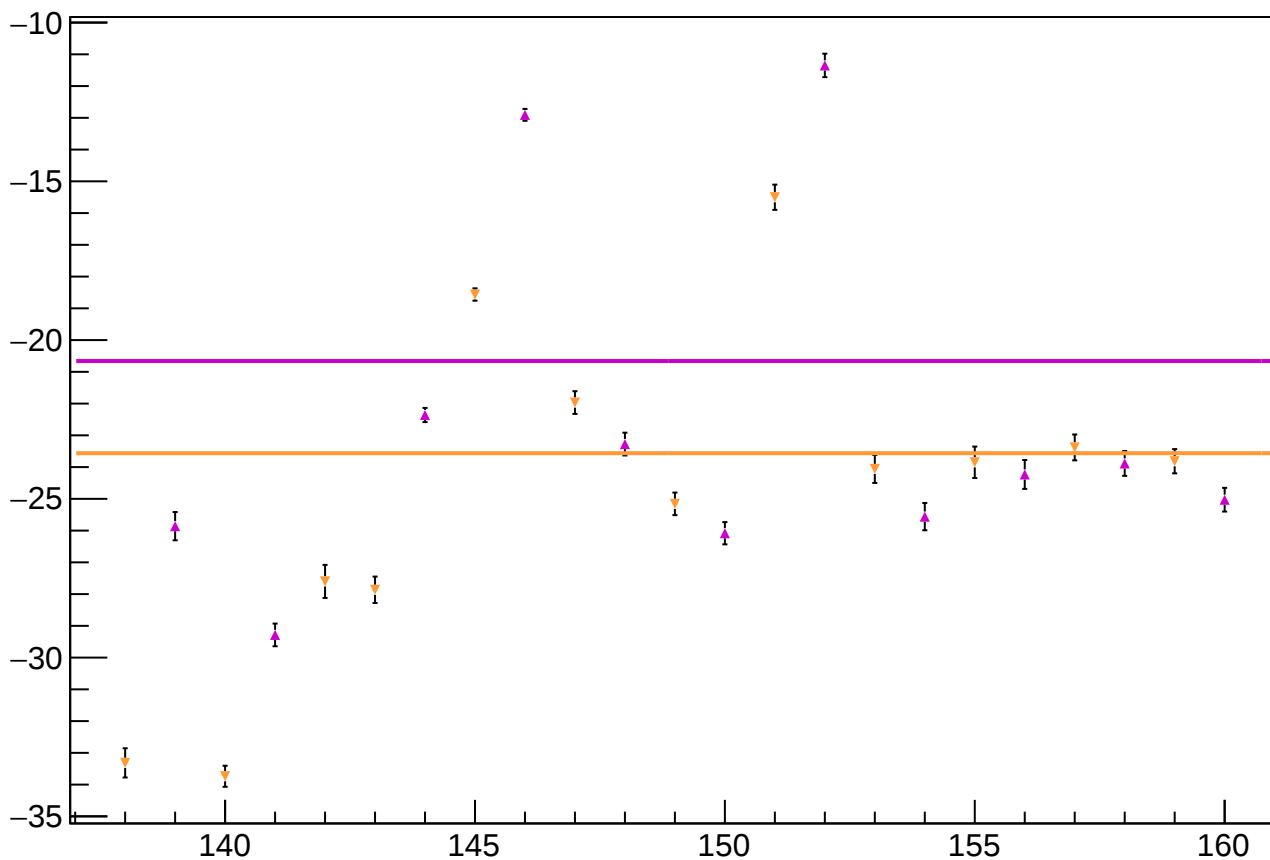
Right:  $-0.310 \pm 0.013$   $\chi^2/\text{NDF}$ : 1837.6/34

In:  $0.218 \pm 0.007$   $\chi^2/\text{NDF}$ : 1789.7/27

Out:  $0.220 \pm 0.008$   $\chi^2/\text{NDF}$ : 2151.6/29

All:  $0.219 \pm 0.005$   $\chi^2/\text{NDF}$ : 3941.4/57

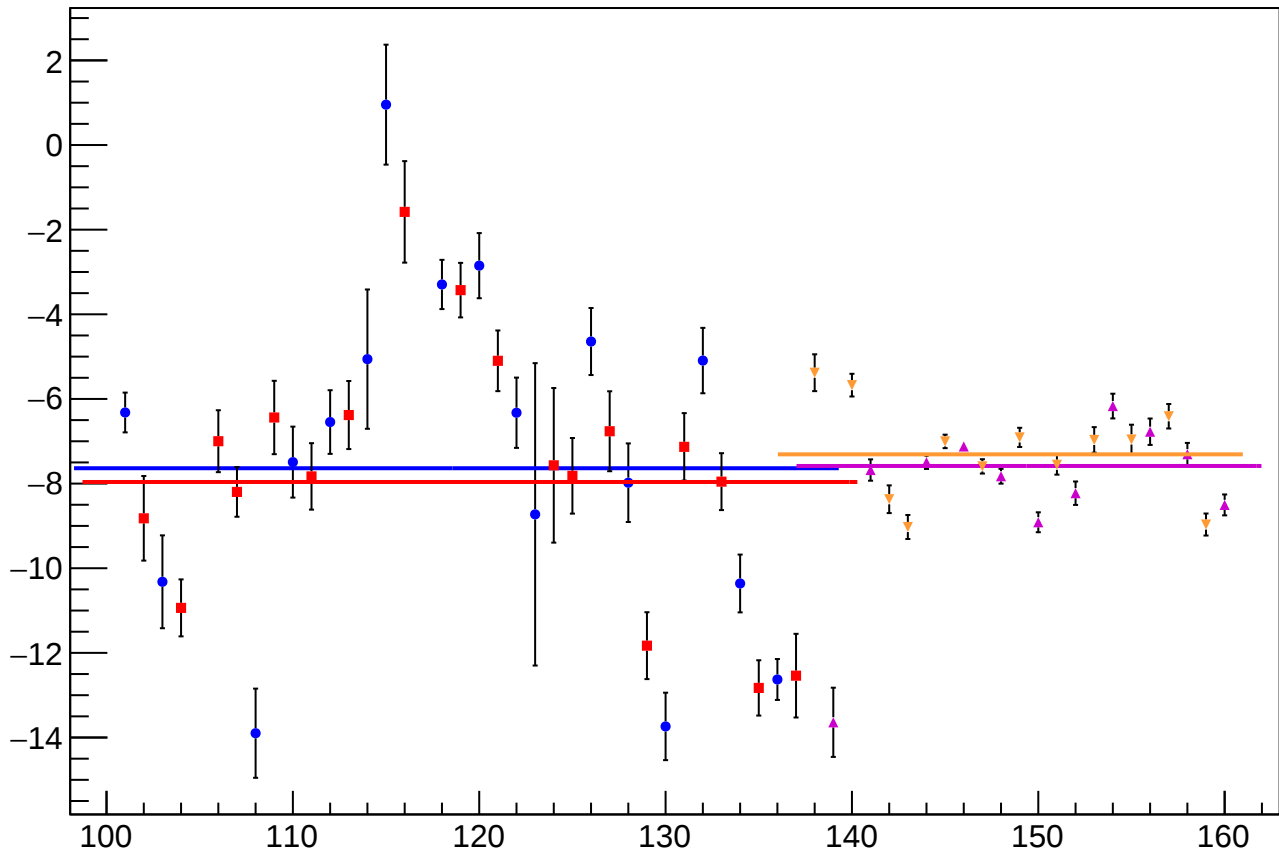
reg\_asym\_sam\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-23.562 \pm 0.103$   $\chi^2/\text{NDF}: 2667.4/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-20.659 \pm 0.096$   $\chi^2/\text{NDF}: 3812.8/10$

Left:  $-22.004 \pm 0.070$   $\chi^2/\text{NDF}: 6904.2/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-20.659 \pm 0.096$   $\chi^2/\text{NDF}: 3812.8/10$   
 Out:  $-23.562 \pm 0.103$   $\chi^2/\text{NDF}: 2667.4/11$   
 All:  $-22.004 \pm 0.070$   $\chi^2/\text{NDF}: 6904.2/22$

reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.637 \pm 0.186$   $\chi^2/\text{NDF}$ : 394.0/16

Left Out:  $-7.309 \pm 0.071$   $\chi^2/\text{NDF}$ : 167.3/11

Right Out:  $-7.962 \pm 0.186$   $\chi^2/\text{NDF}$ : 226.5/17

Left In:  $-7.584 \pm 0.064$   $\chi^2/\text{NDF}$ : 155.3/10

Left:  $-7.461 \pm 0.047$   $\chi^2/\text{NDF}$ : 330.9/22

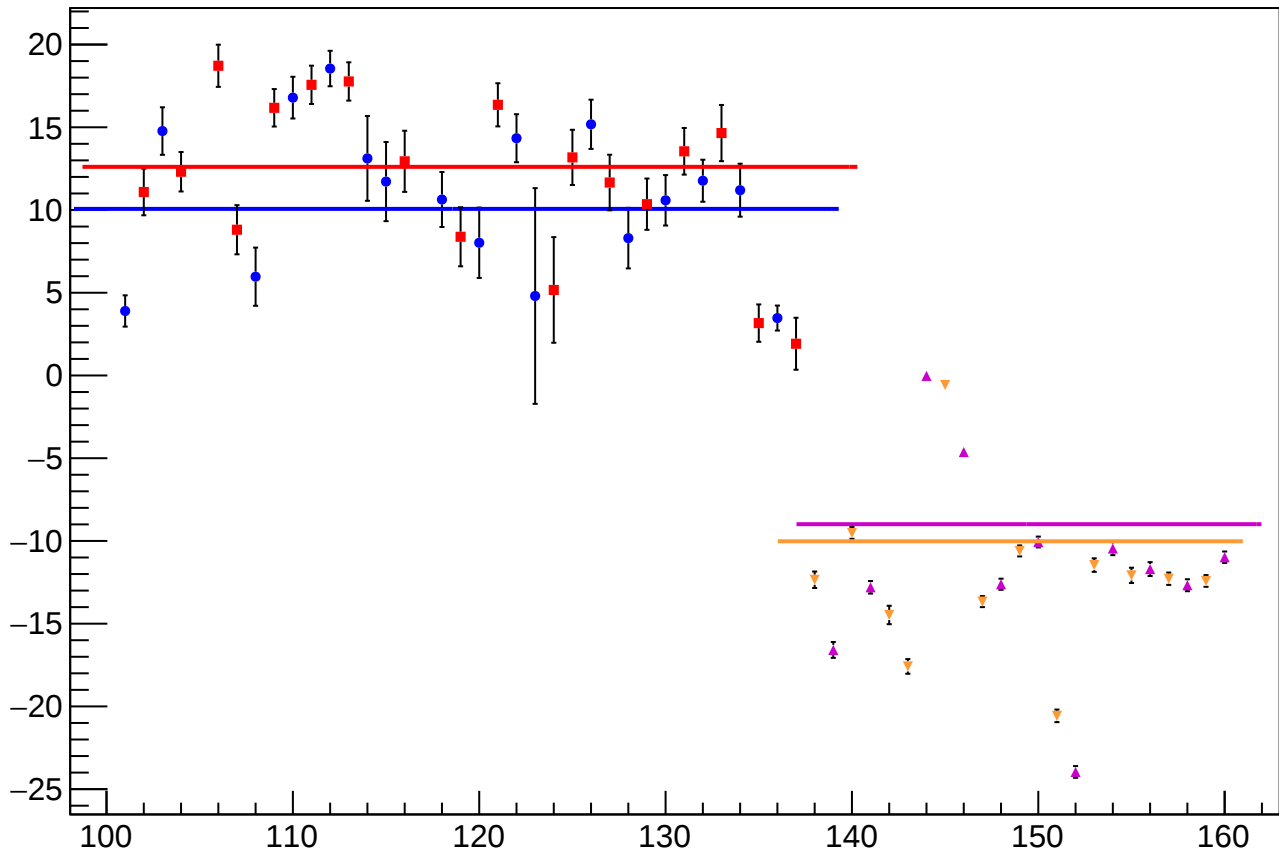
Right:  $-7.800 \pm 0.131$   $\chi^2/\text{NDF}$ : 622.1/34

In:  $-7.589 \pm 0.060$   $\chi^2/\text{NDF}$ : 549.4/27

Out:  $-7.392 \pm 0.066$   $\chi^2/\text{NDF}$ : 404.6/29

All:  $-7.500 \pm 0.045$   $\chi^2/\text{NDF}$ : 958.8/57

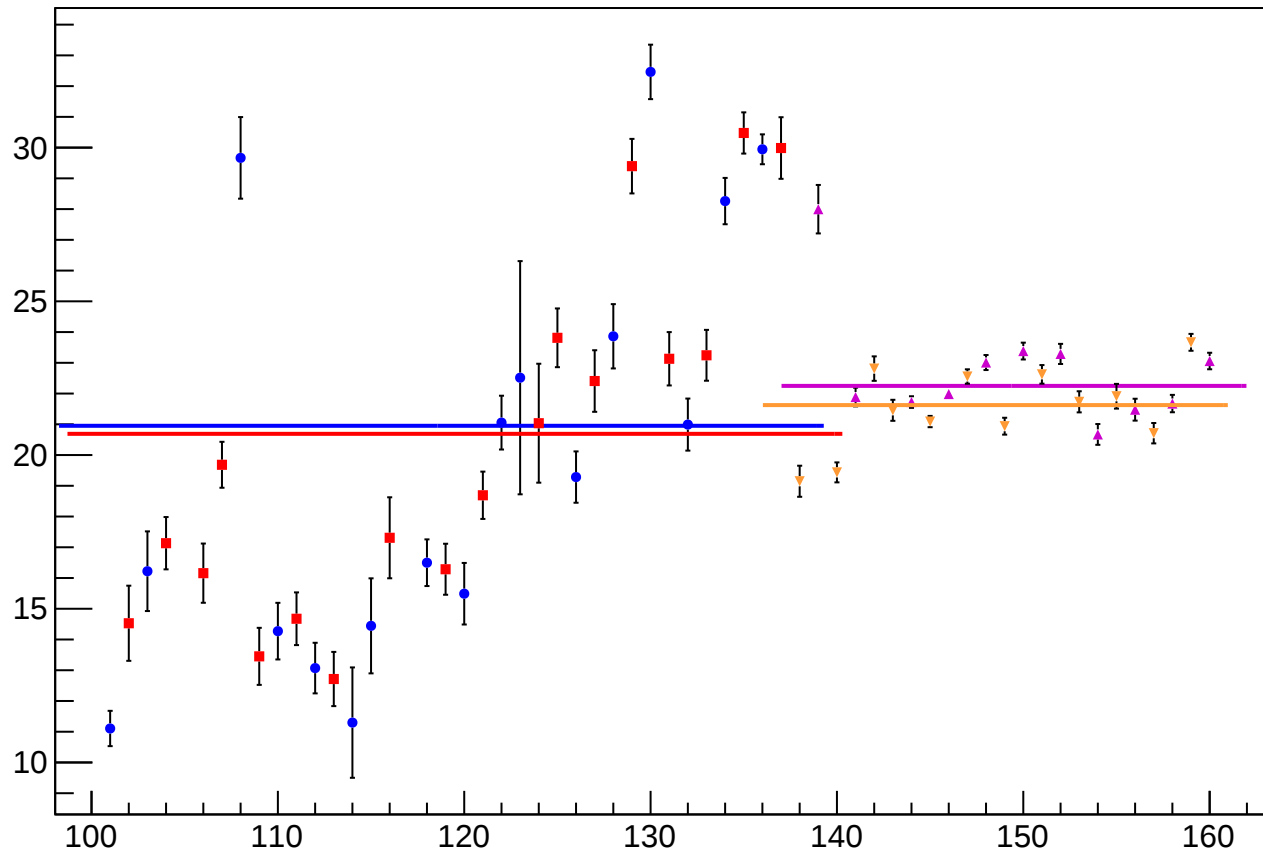
reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $10.068 \pm 0.337$   $\chi^2/\text{NDF}: 253.6/16$   
 Left Out:  $-10.019 \pm 0.103$   $\chi^2/\text{NDF}: 3484.5/11$   
 Right Out:  $12.609 \pm 0.333$   $\chi^2/\text{NDF}: 219.0/17$   
 Left In:  $-8.987 \pm 0.094$   $\chi^2/\text{NDF}: 4446.1/10$

Left:  $-9.456 \pm 0.069$   $\chi^2/\text{NDF}: 7985.5/22$   
 Right:  $11.355 \pm 0.237$   $\chi^2/\text{NDF}: 501.3/34$   
 In:  $-7.619 \pm 0.090$   $\chi^2/\text{NDF}: 7660.0/27$   
 Out:  $-8.051 \pm 0.098$   $\chi^2/\text{NDF}: 7916.7/29$   
 All:  $-7.817 \pm 0.067$   $\chi^2/\text{NDF}: 15587.1/57$

reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 20.951 $\pm$ 0.210  $\chi^2$ /NDF: 1222.8/16

Left Out: 21.625 $\pm$ 0.085  $\chi^2$ /NDF:183.6/11

Right Out: 20.690 $\pm$ 0.213  $\chi^2$ /NDF: 726.9/17

Left In: 22.249 $\pm$ 0.077  $\chi^2$ /NDF:142.2/10

Left: 21.969 $\pm$ 0.057  $\chi^2$ /NDF: 355.5/22

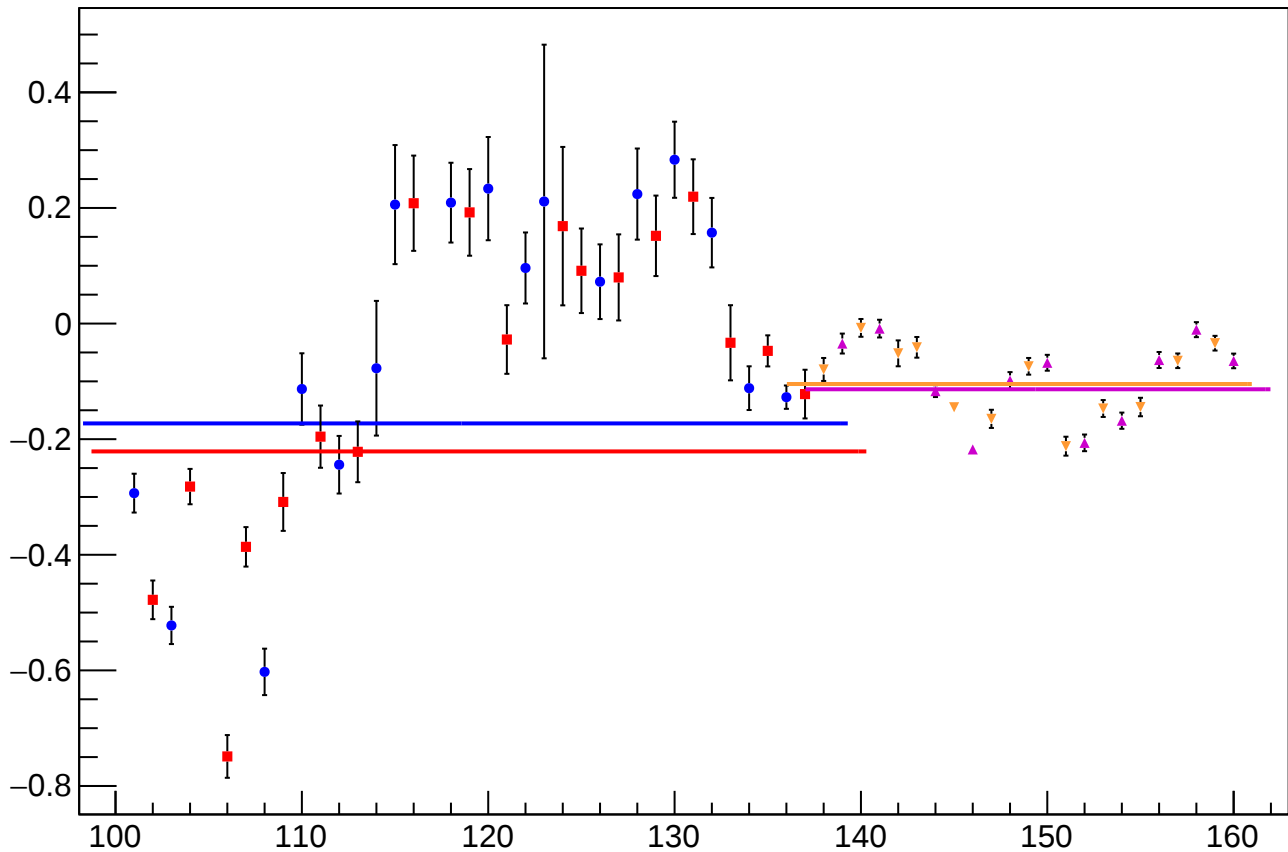
Right: 20.822 $\pm$ 0.149  $\chi^2$ /NDF: 1950.5/34

In: 22.096 $\pm$ 0.072  $\chi^2$ /NDF:1398.7/27

Out: 21.495 $\pm$ 0.079  $\chi^2$ /NDF:927.2/29

All: 21.823 $\pm$ 0.053  $\chi^2$ /NDF: 2357.3/57

reg\_asym\_sam\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.173 \pm 0.011$   $\chi^2/\text{NDF}$ : 460.3/16

Left Out:  $-0.105 \pm 0.004$   $\chi^2/\text{NDF}$ : 202.1/11

Right Out:  $-0.221 \pm 0.011$   $\chi^2/\text{NDF}$ : 535.1/17

Left In:  $-0.114 \pm 0.004$   $\chi^2/\text{NDF}$ : 380.0/10

Left:  $-0.109 \pm 0.003$   $\chi^2/\text{NDF}$ : 584.8/22

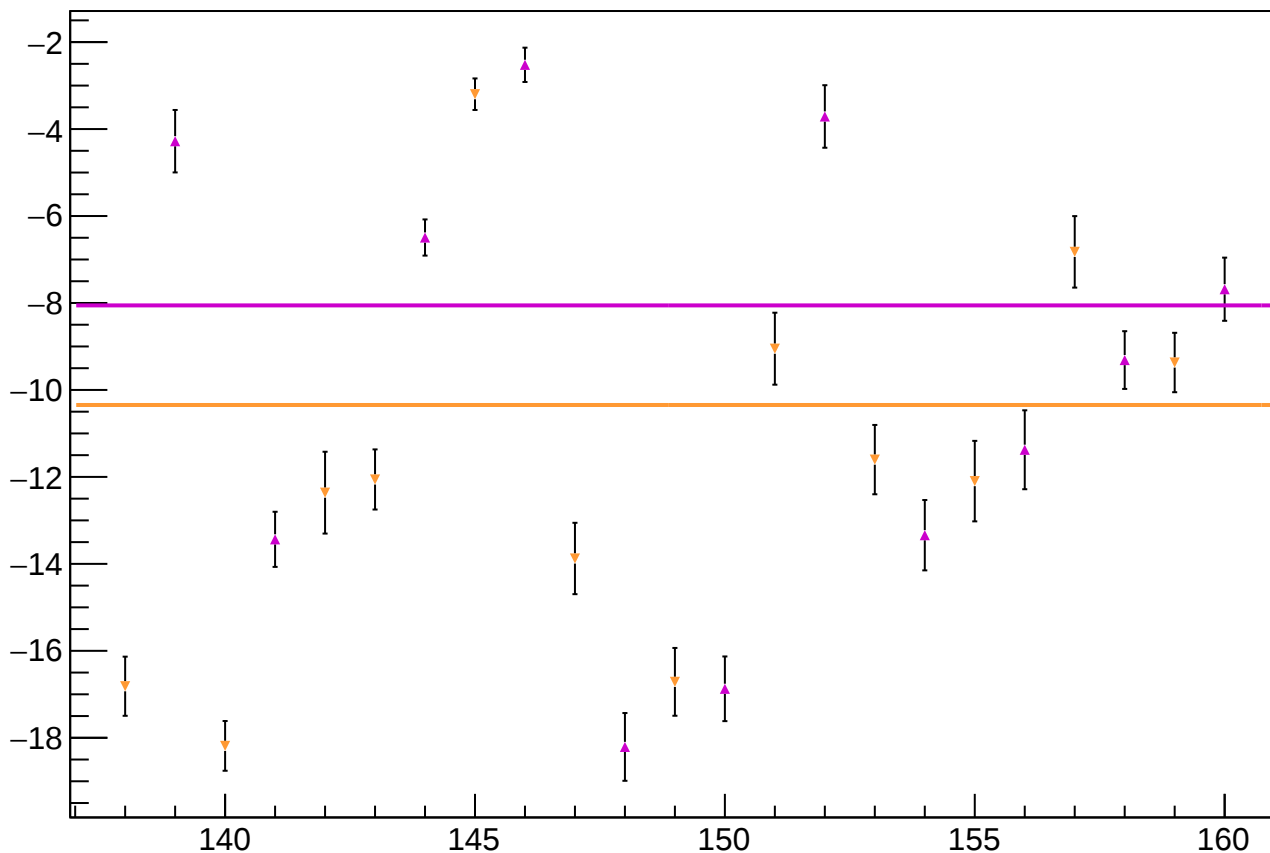
Right:  $-0.197 \pm 0.008$   $\chi^2/\text{NDF}$ : 1005.0/34

In:  $-0.120 \pm 0.004$   $\chi^2/\text{NDF}$ : 865.2/27

Out:  $-0.119 \pm 0.004$   $\chi^2/\text{NDF}$ : 836.8/29

All:  $-0.119 \pm 0.003$   $\chi^2/\text{NDF}$ : 1702.1/57

reg\_asym\_sam\_26\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -10.346+/-0.192  $\chi^2/\text{NDF}$ :791.5/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -8.056+/-0.186  $\chi^2/\text{NDF}$ :717.3/10

Left: -9.161+/-0.134  $\chi^2/\text{NDF}$ : 1582.1/22

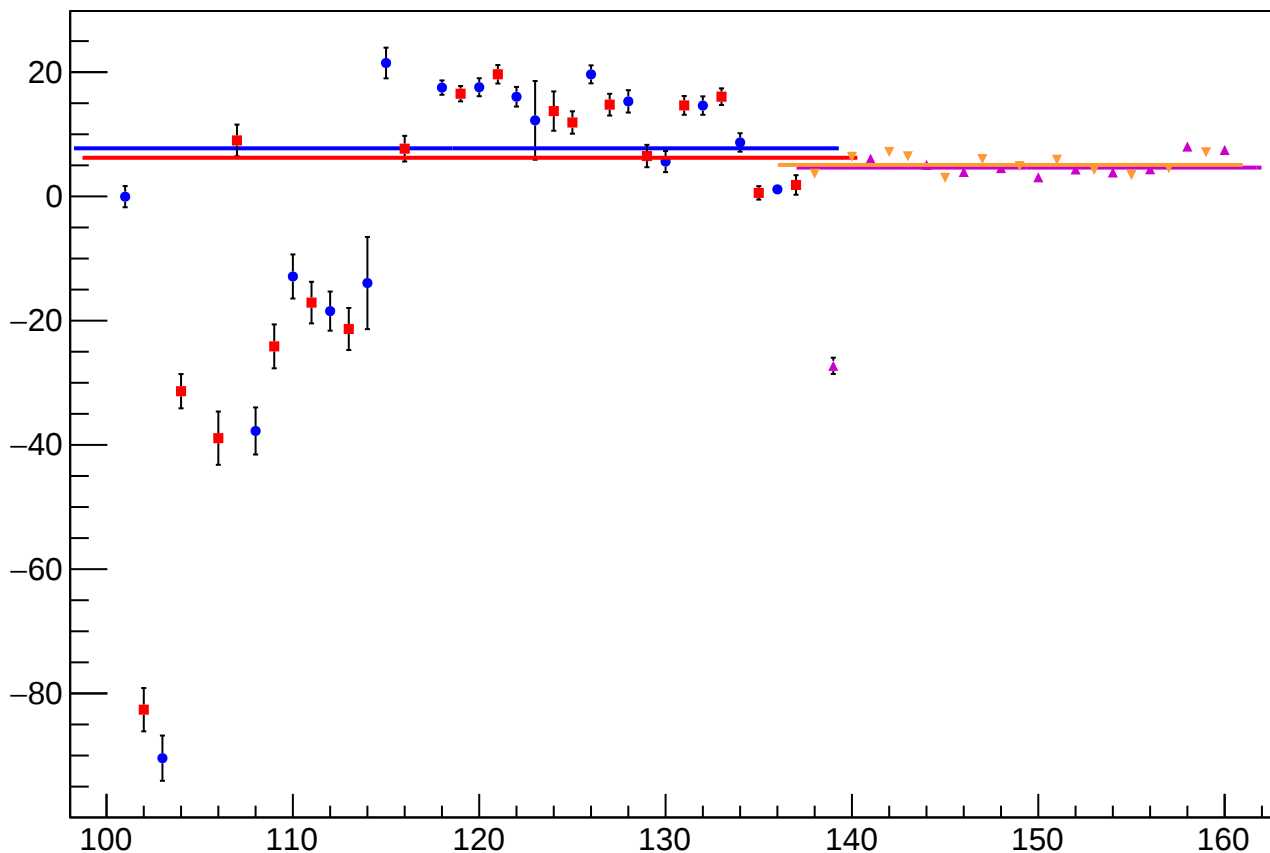
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -8.056+/-0.186  $\chi^2/\text{NDF}$ :717.3/10

Out: -10.346+/-0.192  $\chi^2/\text{NDF}$ :791.5/11

All: -9.161+/-0.134  $\chi^2/\text{NDF}$ : 1582.1/22

reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.742 \pm 0.403$   $\chi^2/\text{NDF}: 1358.9/16$

Left Out:  $5.068 \pm 0.135$   $\chi^2/\text{NDF}: 123.1/11$

Right Out:  $6.220 \pm 0.434$   $\chi^2/\text{NDF}: 1445.9/17$

Left In:  $4.639 \pm 0.127$   $\chi^2/\text{NDF}: 718.9/10$

Left:  $4.840 \pm 0.093$   $\chi^2/\text{NDF}: 847.3/22$

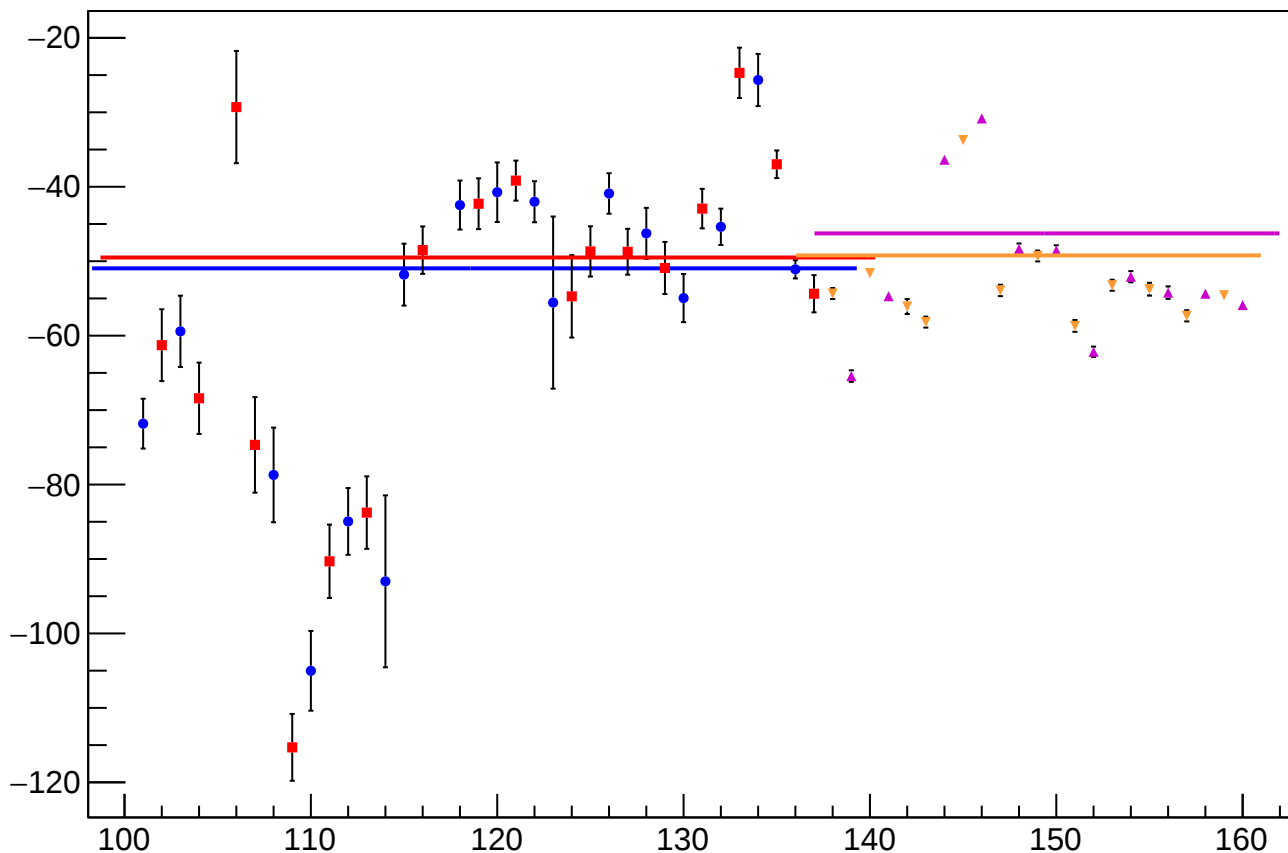
Right:  $7.037 \pm 0.295$   $\chi^2/\text{NDF}: 2811.4/34$

In:  $4.919 \pm 0.121$   $\chi^2/\text{NDF}: 2131.7/27$

Out:  $5.170 \pm 0.129$   $\chi^2/\text{NDF}: 1575.4/29$

All:  $5.036 \pm 0.088$   $\chi^2/\text{NDF}: 3709.1/57$

reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-50.959 \pm 0.738$   $\chi^2/\text{NDF}$ : 331.9/16

Left Out:  $-49.221 \pm 0.194$   $\chi^2/\text{NDF}$ : 2281.7/11

Right Out:  $-49.502 \pm 0.798$   $\chi^2/\text{NDF}$ : 506.4/17

Left In:  $-46.264 \pm 0.183$   $\chi^2/\text{NDF}$ : 3992.1/10

Left:  $-47.656 \pm 0.133$   $\chi^2/\text{NDF}$ : 6396.9/22

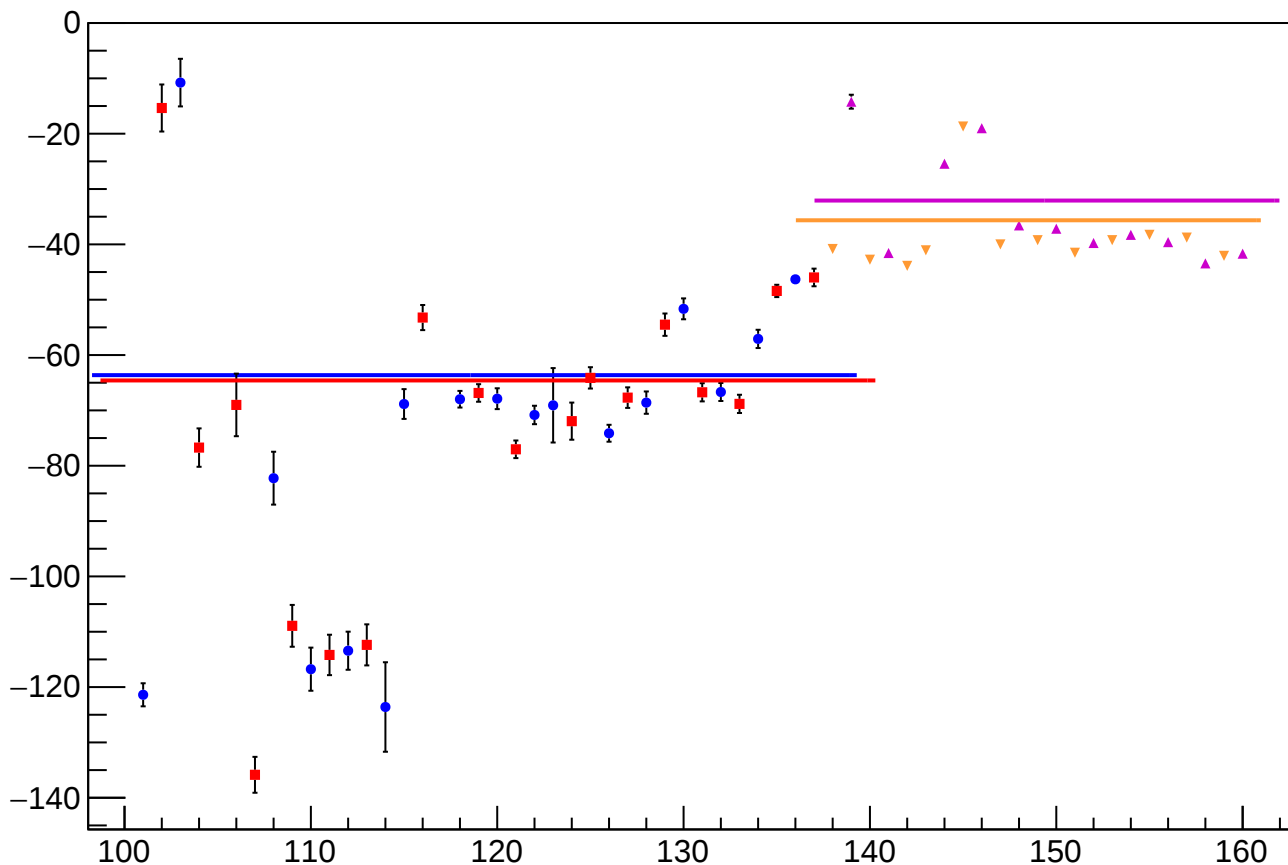
Right:  $-50.287 \pm 0.542$   $\chi^2/\text{NDF}$ : 840.1/34

In:  $-46.535 \pm 0.177$   $\chi^2/\text{NDF}$ : 4362.1/27

Out:  $-49.237 \pm 0.188$   $\chi^2/\text{NDF}$ : 2788.2/29

All:  $-47.806 \pm 0.129$   $\chi^2/\text{NDF}$ : 7259.3/57

reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-63.631 \pm 0.446$   $\chi^2/\text{NDF}$ : 2011.2/16

Left Out:  $-35.647 \pm 0.161$   $\chi^2/\text{NDF}$ : 3433.2/11

Right Out:  $-64.590 \pm 0.482$   $\chi^2/\text{NDF}$ : 1594.3/17

Left In:  $-32.081 \pm 0.151$   $\chi^2/\text{NDF}$ : 3988.7/10

Left:  $-33.751 \pm 0.110$   $\chi^2/\text{NDF}$ : 7681.9/22

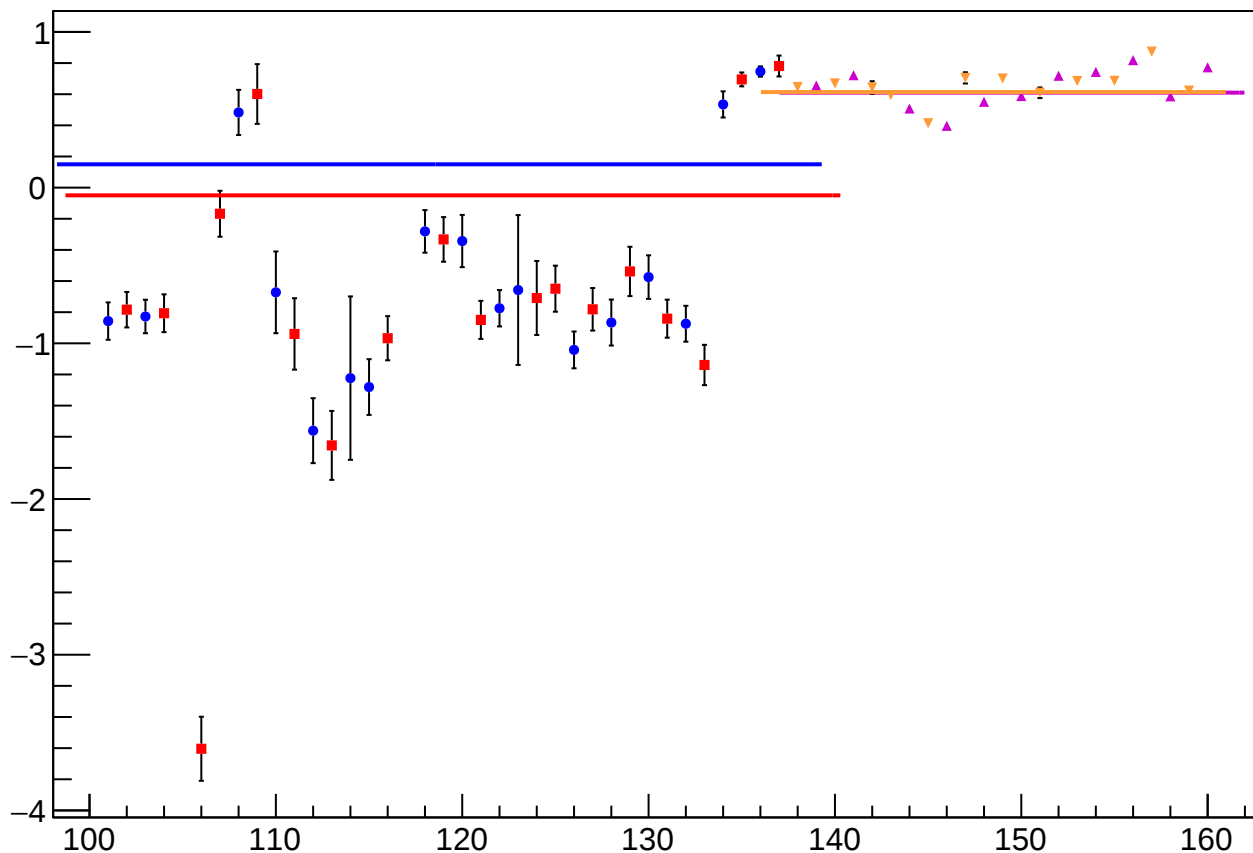
Right:  $-64.073 \pm 0.327$   $\chi^2/\text{NDF}$ : 3607.7/34

In:  $-35.341 \pm 0.143$   $\chi^2/\text{NDF}$ : 10490.0/27

Out:  $-38.559 \pm 0.153$   $\chi^2/\text{NDF}$ : 8268.2/29

All:  $-36.846 \pm 0.105$   $\chi^2/\text{NDF}$ : 18993.9/57

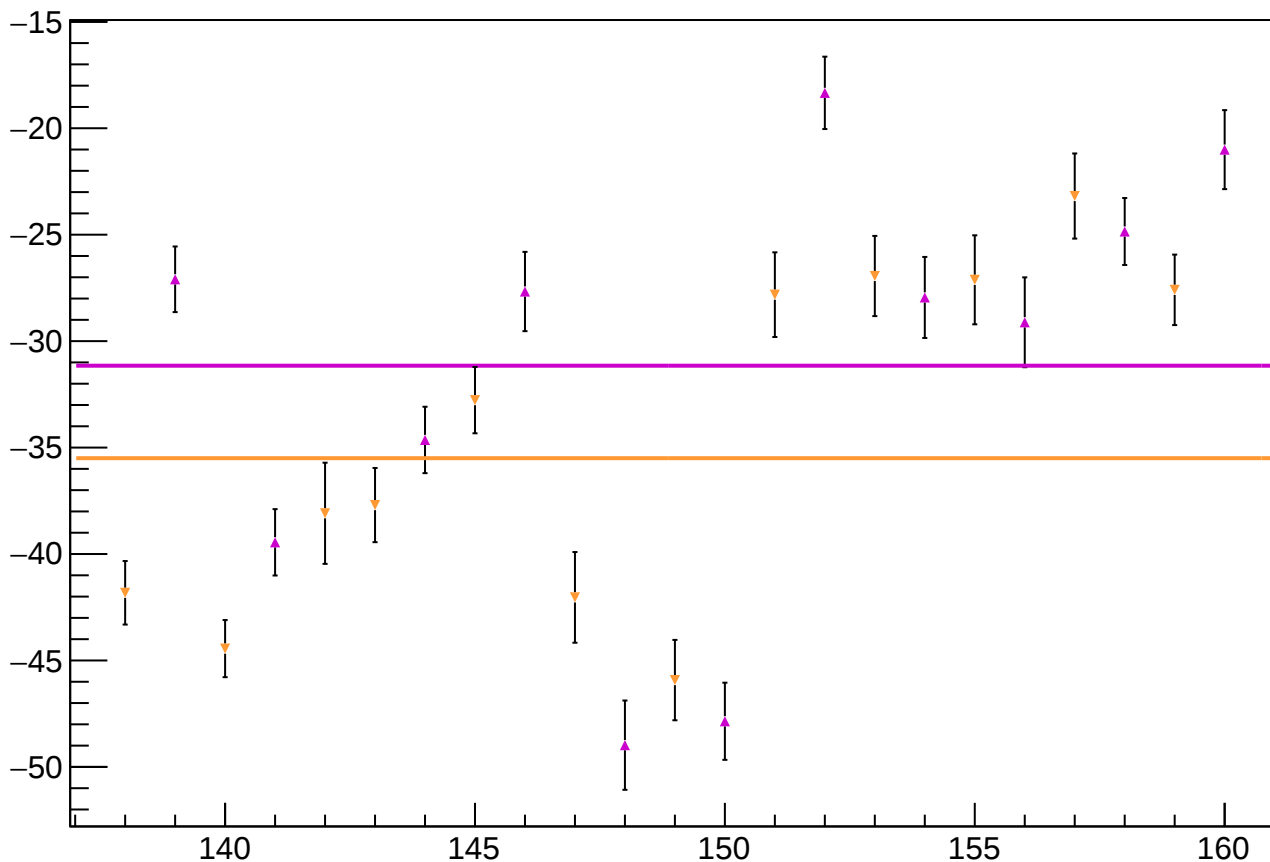
reg\_asym\_sam\_26\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.150 \pm 0.024$   $\chi^2/\text{NDF}$ : 989.2/16  
 Left Out:  $0.614 \pm 0.008$   $\chi^2/\text{NDF}$ : 310.9/11  
 Right Out:  $-0.050 \pm 0.026$   $\chi^2/\text{NDF}$ : 1154.0/17  
 Left In:  $0.610 \pm 0.007$   $\chi^2/\text{NDF}$ : 336.3/10

Left:  $0.612 \pm 0.005$   $\chi^2/\text{NDF}$ : 647.3/22  
 Right:  $0.059 \pm 0.018$   $\chi^2/\text{NDF}$ : 2174.6/34  
 In:  $0.570 \pm 0.007$   $\chi^2/\text{NDF}$ : 1662.0/27  
 Out:  $0.562 \pm 0.007$   $\chi^2/\text{NDF}$ : 2054.8/29  
 All:  $0.566 \pm 0.005$   $\chi^2/\text{NDF}$ : 3717.5/57

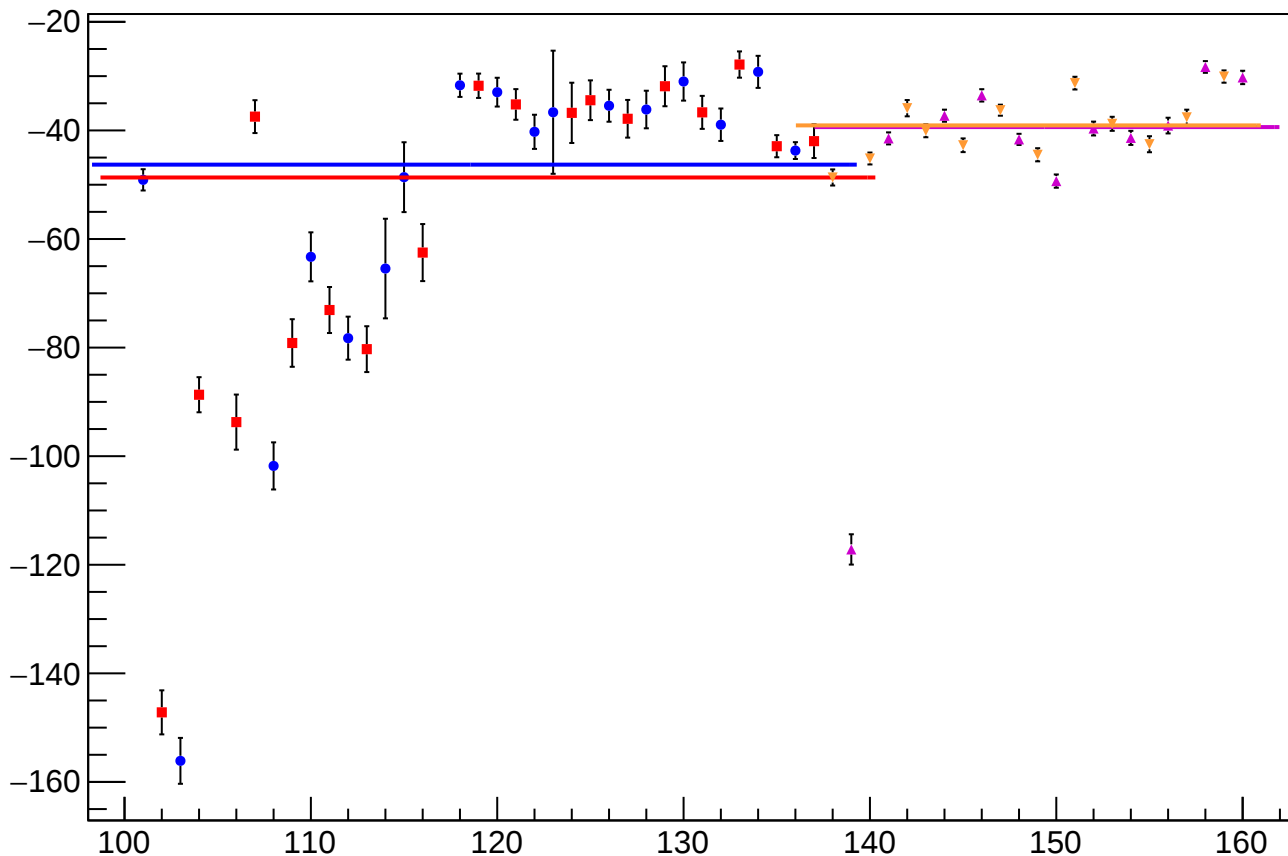
reg\_asym\_sam\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -35.498 $\pm$ 0.513  $\chi^2$ /NDF:220.6/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -31.153 $\pm$ 0.527  $\chi^2$ /NDF:307.6/10

Left: -33.384 $\pm$ 0.367  $\chi^2$ /NDF: 563.1/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -31.153 $\pm$ 0.527  $\chi^2$ /NDF:307.6/10  
 Out: -35.498 $\pm$ 0.513  $\chi^2$ /NDF:220.6/11  
 All: -33.384 $\pm$ 0.367  $\chi^2$ /NDF: 563.1/22

reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-46.301 \pm 0.723$   $\chi^2/\text{NDF}: 1084.0/16$

Left Out:  $-39.072 \pm 0.359$   $\chi^2/\text{NDF}: 227.1/11$

Right Out:  $-48.666 \pm 0.763$   $\chi^2/\text{NDF}: 1212.3/17$

Left In:  $-39.383 \pm 0.369$   $\chi^2/\text{NDF}: 1043.2/10$

Left:  $-39.223 \pm 0.257$   $\chi^2/\text{NDF}: 1270.6/22$

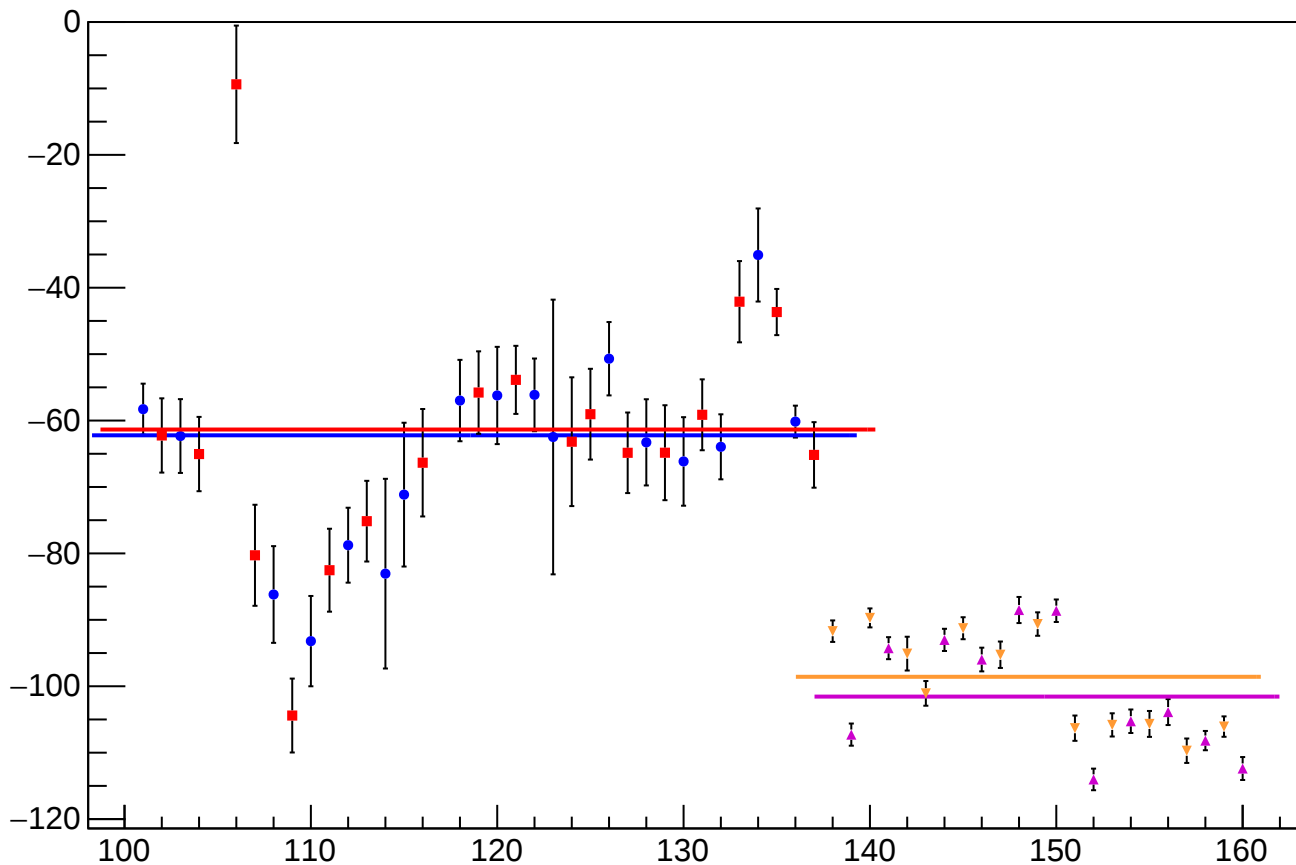
Right:  $-47.420 \pm 0.525$   $\chi^2/\text{NDF}: 2301.3/34$

In:  $-40.813 \pm 0.329$   $\chi^2/\text{NDF}: 2199.7/27$

Out:  $-40.809 \pm 0.325$   $\chi^2/\text{NDF}: 1568.7/29$

All:  $-40.811 \pm 0.231$   $\chi^2/\text{NDF}: 3768.4/57$

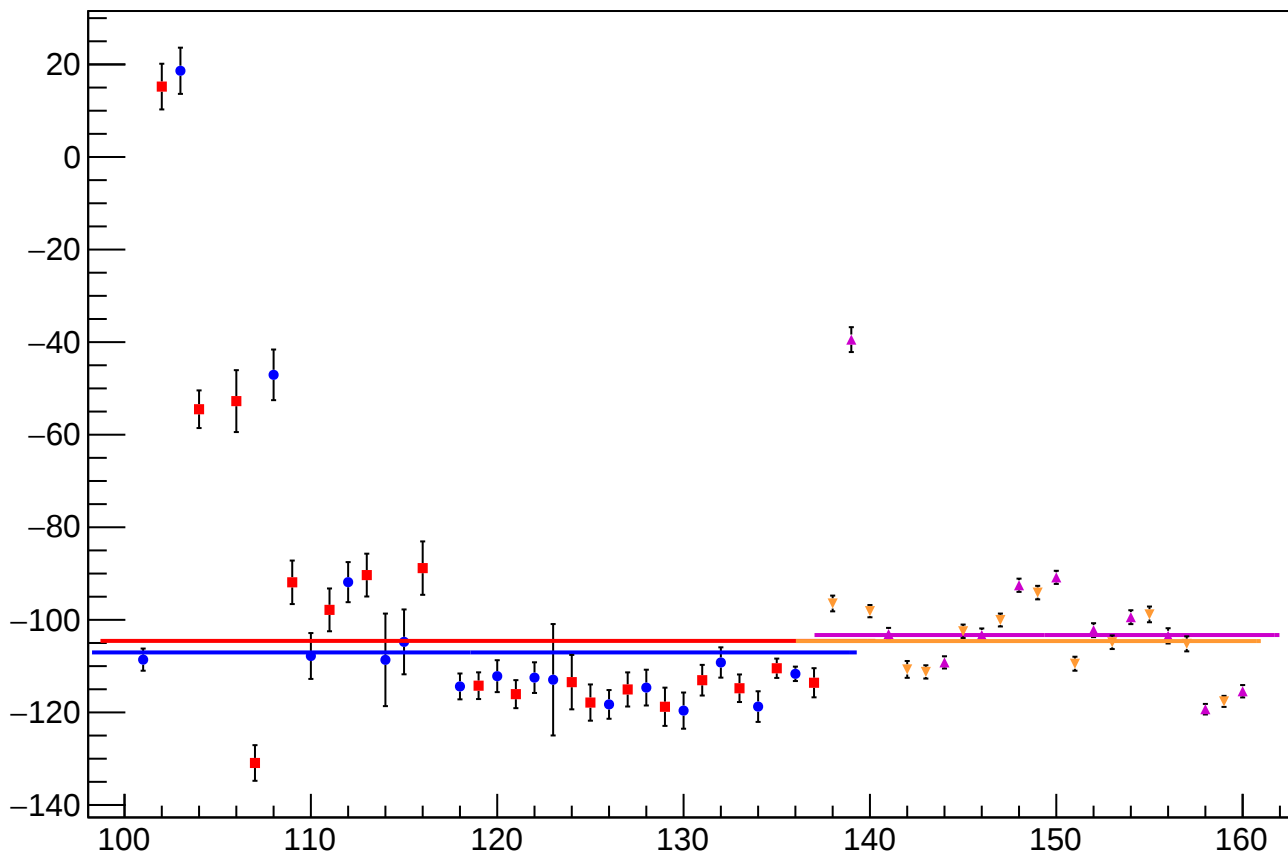
reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.221 \pm 1.312$   $\chi^2/\text{NDF}: 67.3/16$   
 Left Out:  $-98.575 \pm 0.510$   $\chi^2/\text{NDF}: 210.1/11$   
 Right Out:  $-61.350 \pm 1.383$   $\chi^2/\text{NDF}: 158.4/17$   
 Left In:  $-101.556 \pm 0.515$   $\chi^2/\text{NDF}: 294.0/10$

Left:  $-100.052 \pm 0.362$   $\chi^2/\text{NDF}: 521.1/22$   
 Right:  $-61.809 \pm 0.952$   $\chi^2/\text{NDF}: 225.9/34$   
 In:  $-96.306 \pm 0.479$   $\chi^2/\text{NDF}: 1140.6/27$   
 Out:  $-94.114 \pm 0.479$   $\chi^2/\text{NDF}: 1006.4/29$   
 All:  $-95.209 \pm 0.339$   $\chi^2/\text{NDF}: 2157.4/57$

reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-107.040 \pm 0.812$   $\chi^2/\text{NDF}$ : 827.8/16

Left Out:  $-104.588 \pm 0.427$   $\chi^2/\text{NDF}$ : 284.6/11

Right Out:  $-104.550 \pm 0.861$   $\chi^2/\text{NDF}$ : 967.4/17

Left In:  $-103.282 \pm 0.433$   $\chi^2/\text{NDF}$ : 1004.2/10

Left:  $-103.944 \pm 0.304$   $\chi^2/\text{NDF}$ : 1293.4/22

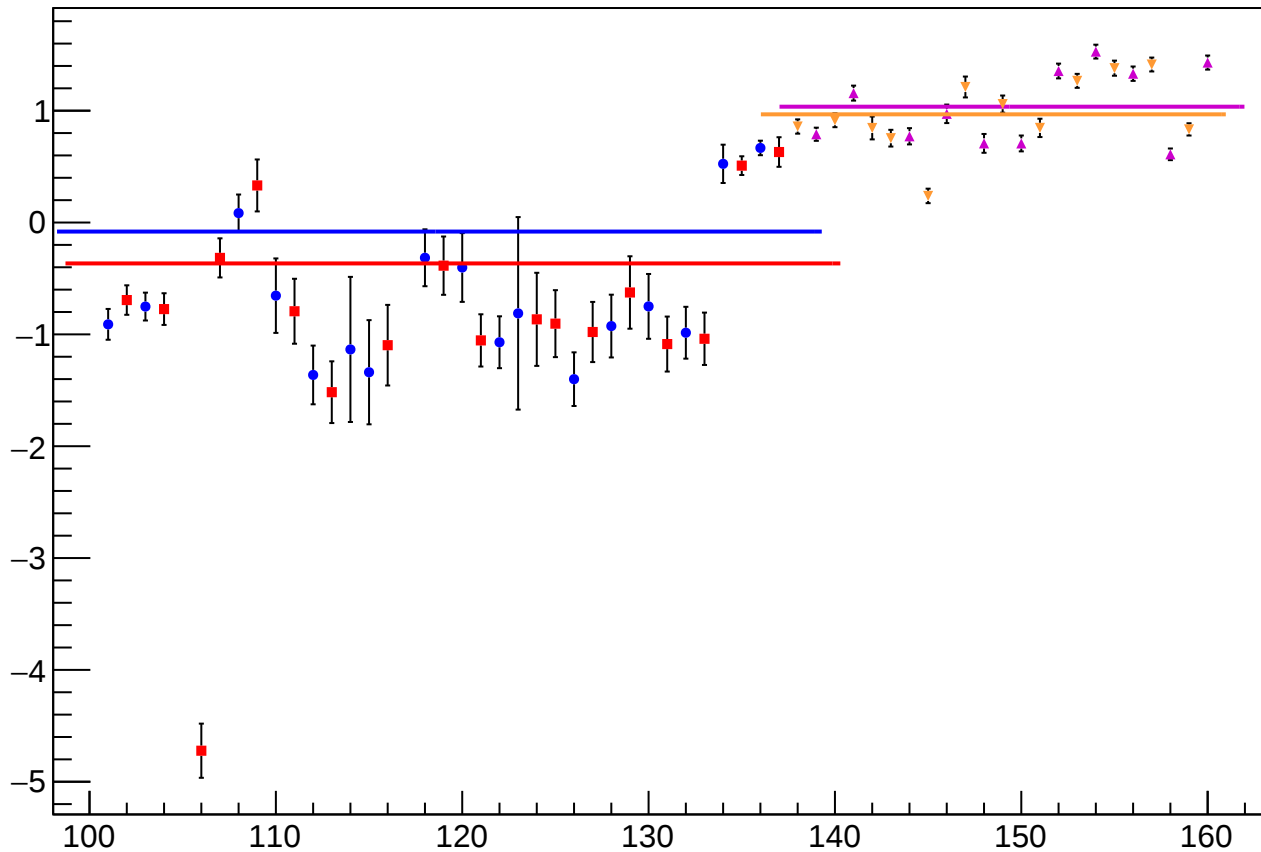
Right:  $-105.867 \pm 0.591$   $\chi^2/\text{NDF}$ : 1799.7/34

In:  $-104.114 \pm 0.382$   $\chi^2/\text{NDF}$ : 1848.8/27

Out:  $-104.580 \pm 0.383$   $\chi^2/\text{NDF}$ : 1252.0/29

All:  $-104.347 \pm 0.270$   $\chi^2/\text{NDF}$ : 3101.5/57

reg\_asym\_sam\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.081 \pm 0.042$   $\chi^2/\text{NDF}$ : 328.9/16

Left Out:  $0.967 \pm 0.020$   $\chi^2/\text{NDF}$ : 267.9/11

Right Out:  $-0.366 \pm 0.044$   $\chi^2/\text{NDF}$ : 572.8/17

Left In:  $1.036 \pm 0.020$   $\chi^2/\text{NDF}$ : 284.4/10

Left:  $1.002 \pm 0.014$   $\chi^2/\text{NDF}$ : 558.2/22

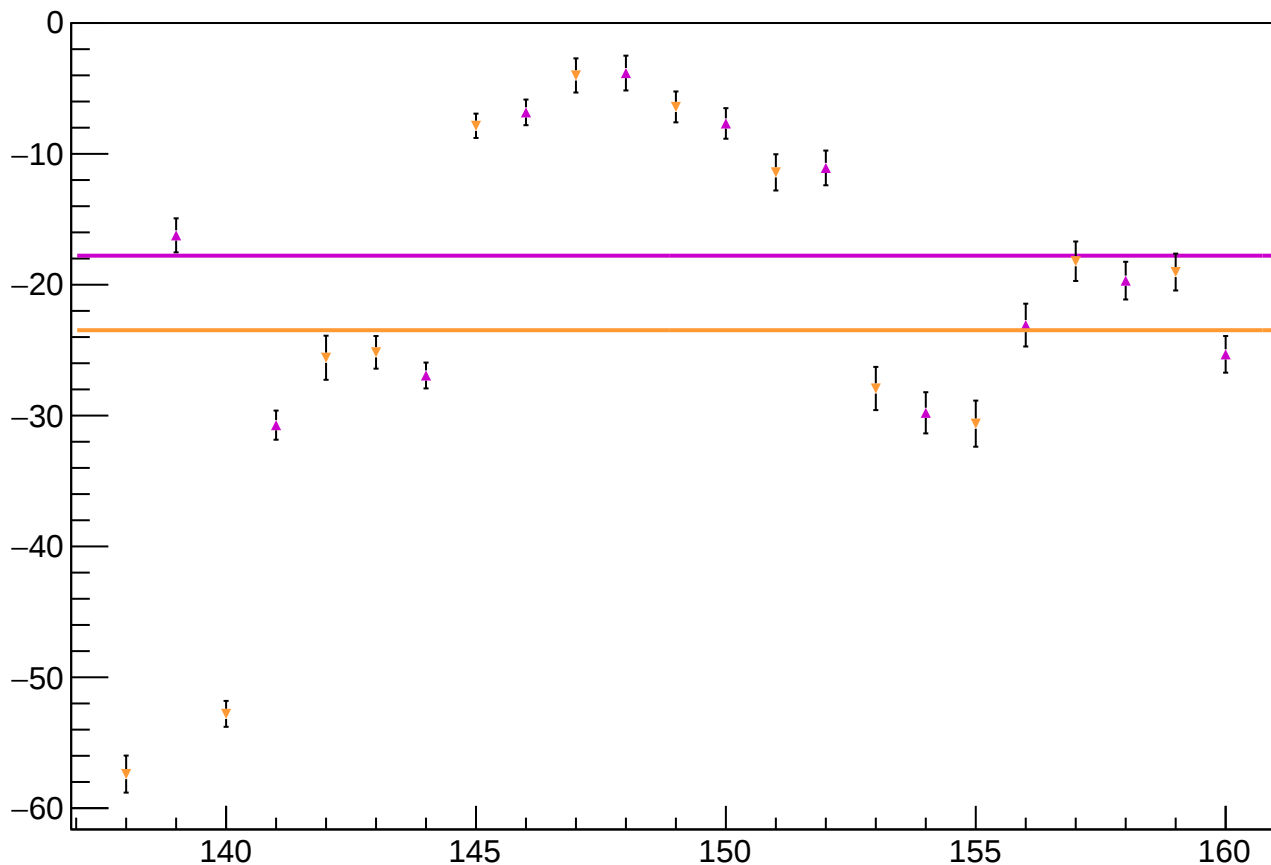
Right:  $-0.217 \pm 0.030$   $\chi^2/\text{NDF}$ : 923.5/34

In:  $0.833 \pm 0.018$   $\chi^2/\text{NDF}$ : 1186.5/27

Out:  $0.740 \pm 0.018$   $\chi^2/\text{NDF}$ : 1602.1/29

All:  $0.787 \pm 0.013$   $\chi^2/\text{NDF}$ : 2801.9/57

reg\_asym\_sam\_48\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.476+/-0.374  $\chi^2/\text{NDF}$ :2291.0/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -17.780+/-0.375  $\chi^2/\text{NDF}$ :658.0/10

Left: -20.633+/-0.265  $\chi^2/\text{NDF}$ : 3064.6/22

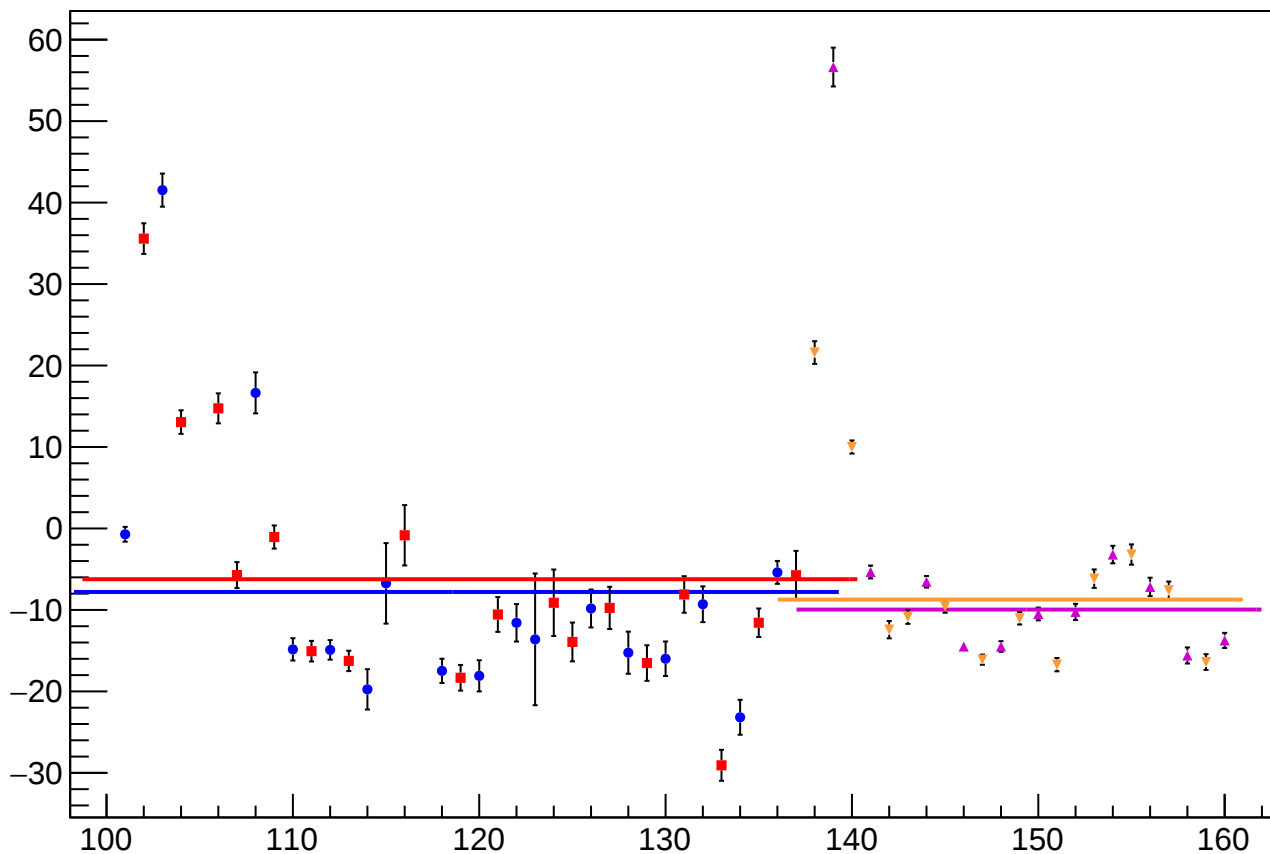
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.780+/-0.375  $\chi^2/\text{NDF}$ :658.0/10

Out: -23.476+/-0.374  $\chi^2/\text{NDF}$ :2291.0/11

All: -20.633+/-0.265  $\chi^2/\text{NDF}$ : 3064.6/22

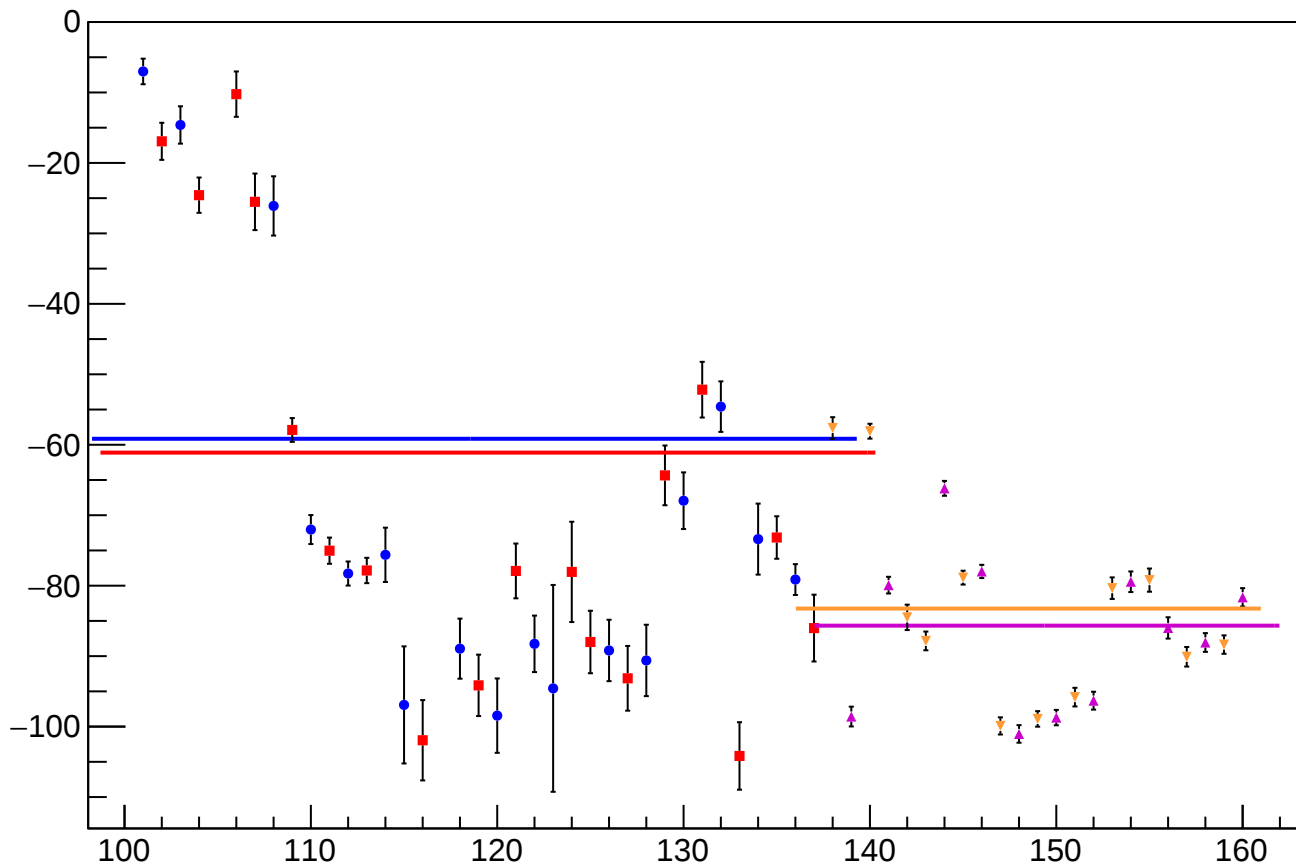
reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.794 \pm 0.428$   $\chi^2/\text{NDF}$ : 982.7/16  
 Left Out:  $-8.732 \pm 0.256$   $\chi^2/\text{NDF}$ : 1363.5/11  
 Right Out:  $-6.231 \pm 0.430$   $\chi^2/\text{NDF}$ : 1183.0/17  
 Left In:  $-9.956 \pm 0.256$   $\chi^2/\text{NDF}$ : 1038.2/10

Left:  $-9.345 \pm 0.181$   $\chi^2/\text{NDF}$ : 2413.1/22  
 Right:  $-7.016 \pm 0.303$   $\chi^2/\text{NDF}$ : 2172.3/34  
 In:  $-9.386 \pm 0.220$   $\chi^2/\text{NDF}$ : 2039.7/27  
 Out:  $-8.075 \pm 0.220$   $\chi^2/\text{NDF}$ : 2571.5/29  
 All:  $-8.732 \pm 0.156$   $\chi^2/\text{NDF}$ : 4628.9/57

reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Left:  $-84.476 \pm 0.262$   $\chi^2/\text{NDF} = 2341.1/22$

Right:  $-60.182 \pm 0.513$   $\chi^2/\text{NDF} = 3039.8/34$

Right In:  $-59.150 \pm 0.745$   $\chi^2/\text{NDF} = 1718.3/16$

Left Out:  $-83.245 \pm 0.373$   $\chi^2/\text{NDF} = 1408.9/11$

Right Out:  $-61.113 \pm 0.708$   $\chi^2/\text{NDF} = 1317.8/17$

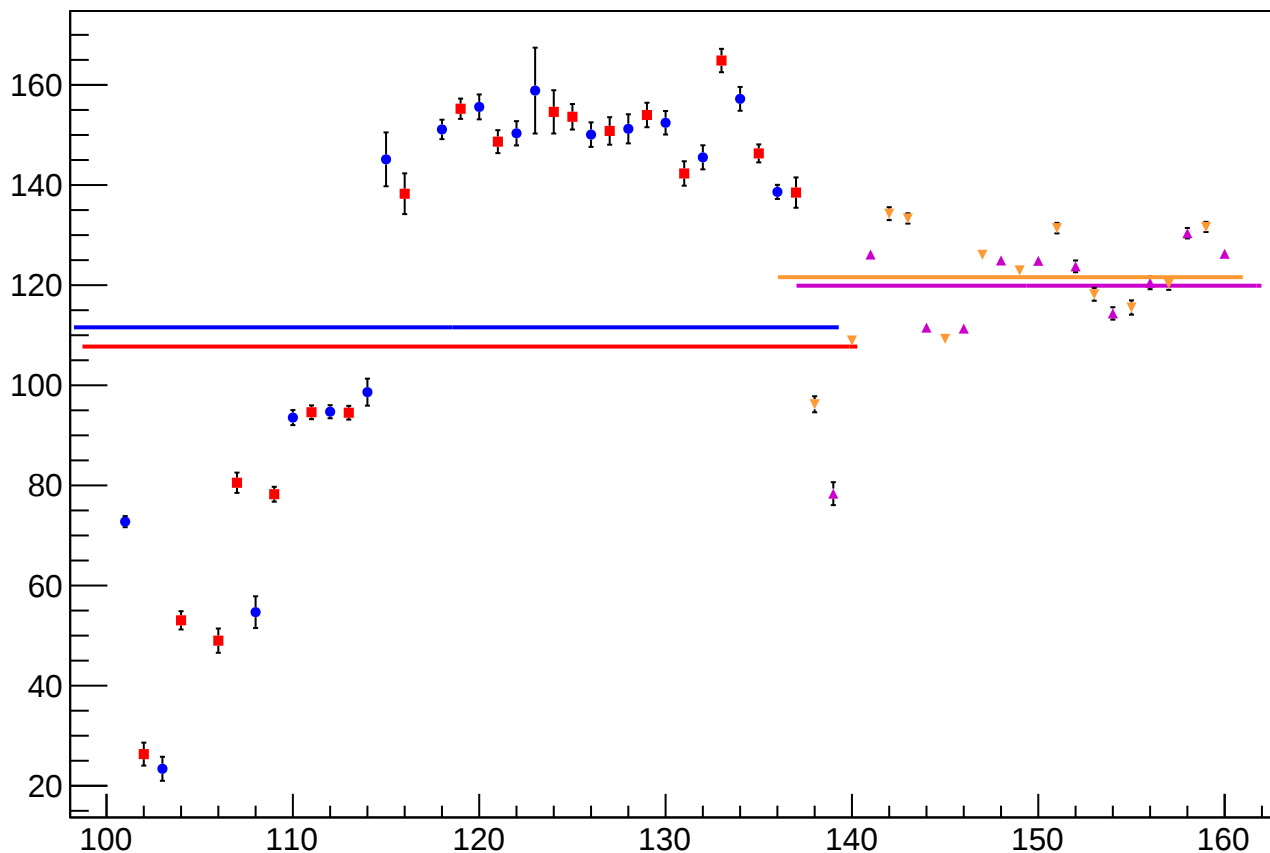
Left In:  $-85.673 \pm 0.367$   $\chi^2/\text{NDF} = 910.7/10$

In:  $-80.487 \pm 0.330$   $\chi^2/\text{NDF} = 3647.9/27$

Out:  $-78.439 \pm 0.330$   $\chi^2/\text{NDF} = 3492.2/29$

All:  $-79.464 \pm 0.233$   $\chi^2/\text{NDF} = 7159.5/57$

reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 111.580 $\pm$ 0.487  $\chi^2$ /NDF: 5946.0/16

Left Out: 121.595 $\pm$ 0.309  $\chi^2$ /NDF:1084.0/11

Right Out: 107.735 $\pm$ 0.489  $\chi^2$ /NDF: 6836.2/17

Left In: 119.894 $\pm$ 0.306  $\chi^2$ /NDF:827.6/10

Left: 120.735 $\pm$ 0.217  $\chi^2$ /NDF: 1926.9/22

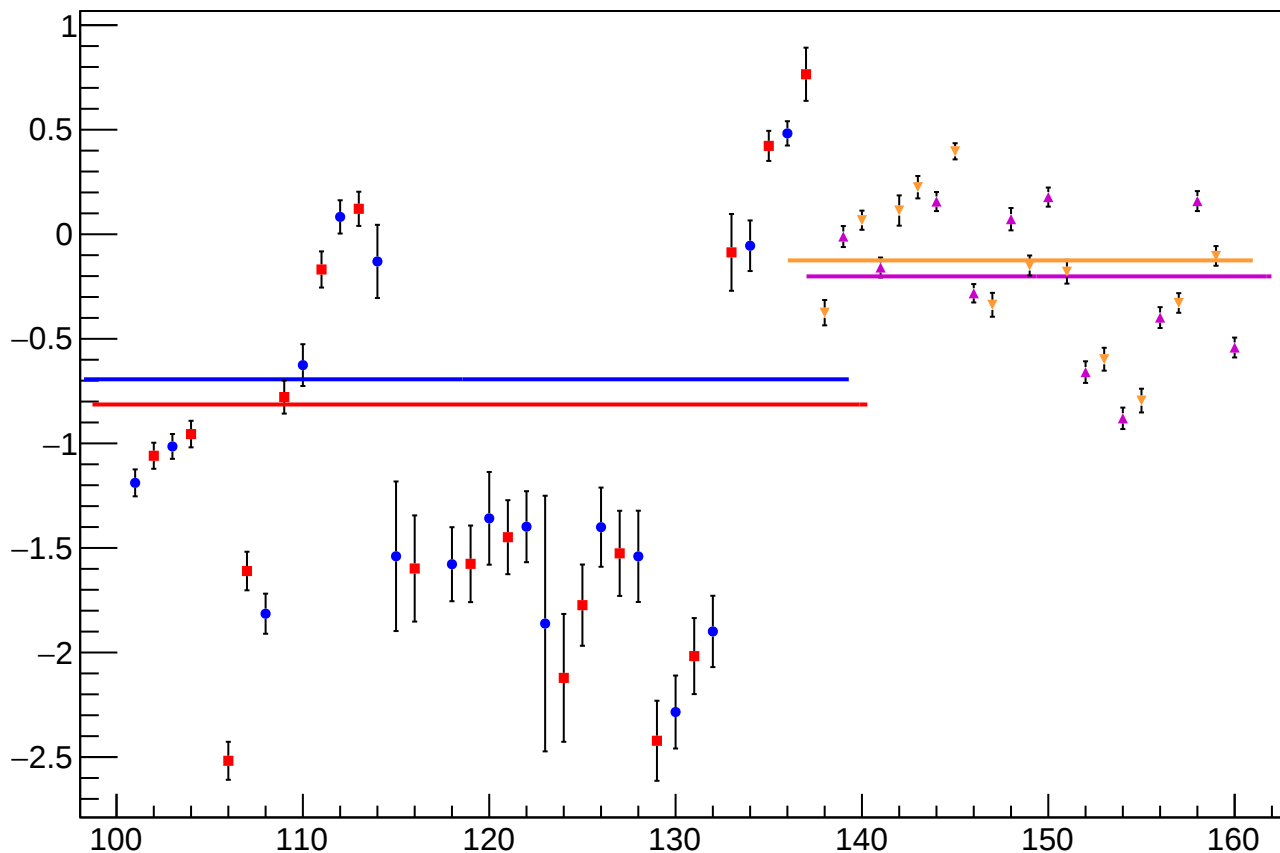
Right: 109.661 $\pm$ 0.345  $\chi^2$ /NDF: 12813.2/34

In: 117.550 $\pm$ 0.259  $\chi^2$ /NDF:6982.4/27

Out: 117.637 $\pm$ 0.261  $\chi^2$ /NDF:8495.2/29

All: 117.593 $\pm$ 0.184  $\chi^2$ /NDF: 15477.6/57

reg\_asym\_sam\_48\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.694 \pm 0.026$   $\chi^2/\text{NDF}$ : 990.7/16

Left Out:  $-0.125 \pm 0.015$   $\chi^2/\text{NDF}$ : 518.8/11

Right Out:  $-0.814 \pm 0.024$   $\chi^2/\text{NDF}$ : 1308.8/17

Left In:  $-0.201 \pm 0.015$   $\chi^2/\text{NDF}$ : 552.4/10

Left:  $-0.164 \pm 0.010$   $\chi^2/\text{NDF}$ : 1084.7/22

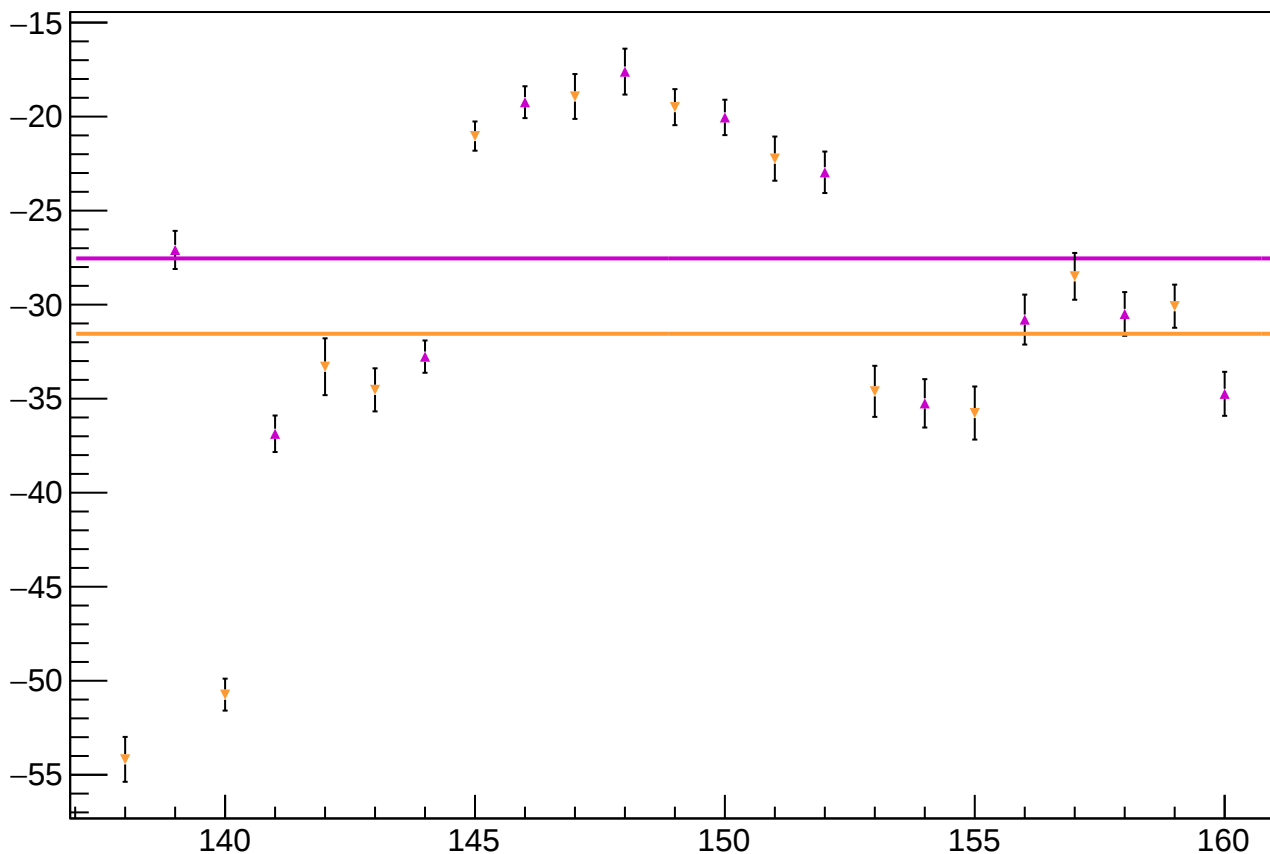
Right:  $-0.757 \pm 0.018$   $\chi^2/\text{NDF}$ : 2310.9/34

In:  $-0.321 \pm 0.013$   $\chi^2/\text{NDF}$ : 1818.7/27

Out:  $-0.309 \pm 0.013$   $\chi^2/\text{NDF}$ : 2407.7/29

All:  $-0.315 \pm 0.009$   $\chi^2/\text{NDF}$ : 4226.7/57

reg\_asym\_sam\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



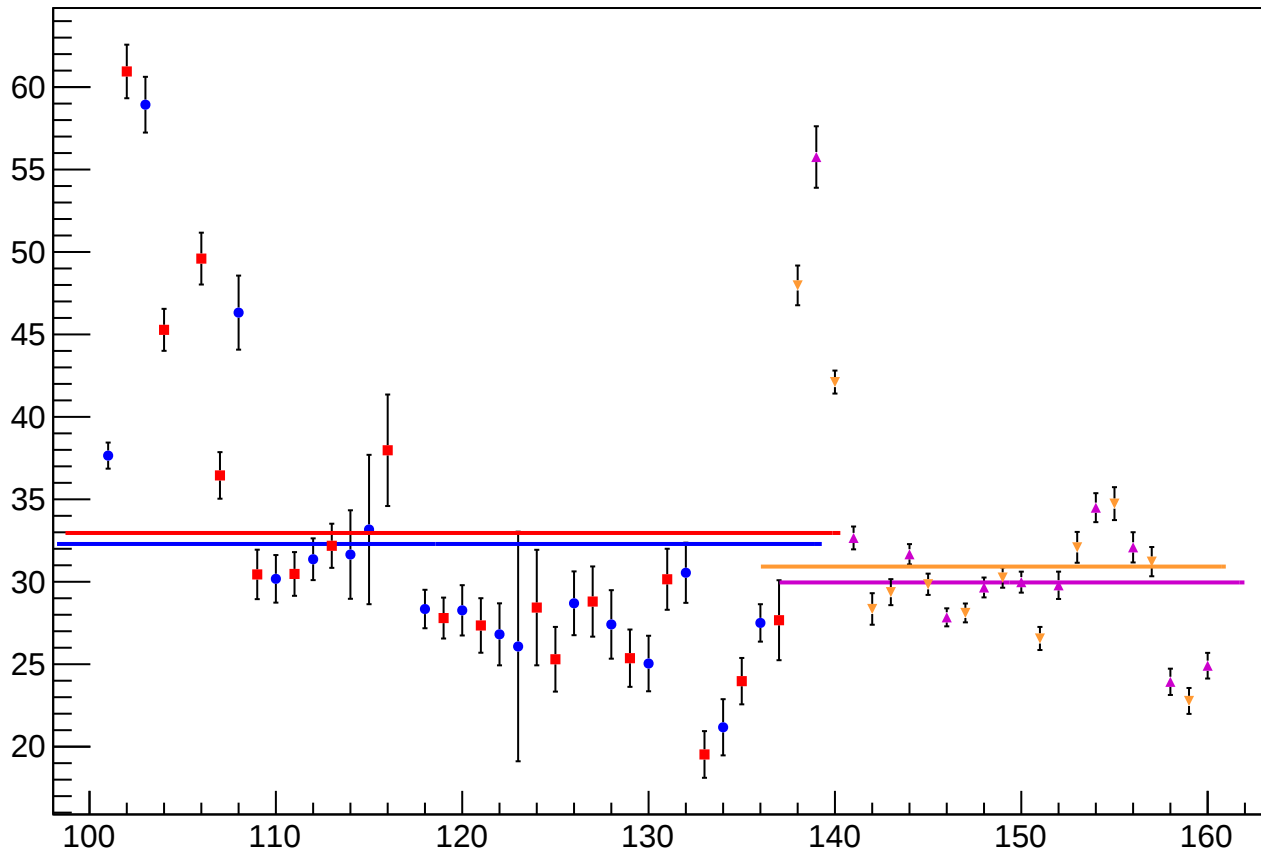
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -31.548+/-0.318  $\chi^2/\text{NDF}$ :1415.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -27.542+/-0.315  $\chi^2/\text{NDF}$ :458.8/10

Left: -29.531+/-0.224  $\chi^2/\text{NDF}$ : 1954.2/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -27.542+/-0.315  $\chi^2/\text{NDF}$ :458.8/10  
 Out: -31.548+/-0.318  $\chi^2/\text{NDF}$ :1415.3/11

All: -29.531+/-0.224  $\chi^2/\text{NDF}$ : 1954.2/22

reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 32.293 $\pm$ 0.373  $\chi^2$ /NDF: 452.5/16

Left Out: 30.922 $\pm$ 0.220  $\chi^2$ /NDF: 659.5/11

Right Out: 32.960 $\pm$ 0.380  $\chi^2$ /NDF: 724.0/17

Left In: 29.959 $\pm$ 0.220  $\chi^2$ /NDF: 360.7/10

Left: 30.439 $\pm$ 0.156  $\chi^2$ /NDF: 1029.9/22

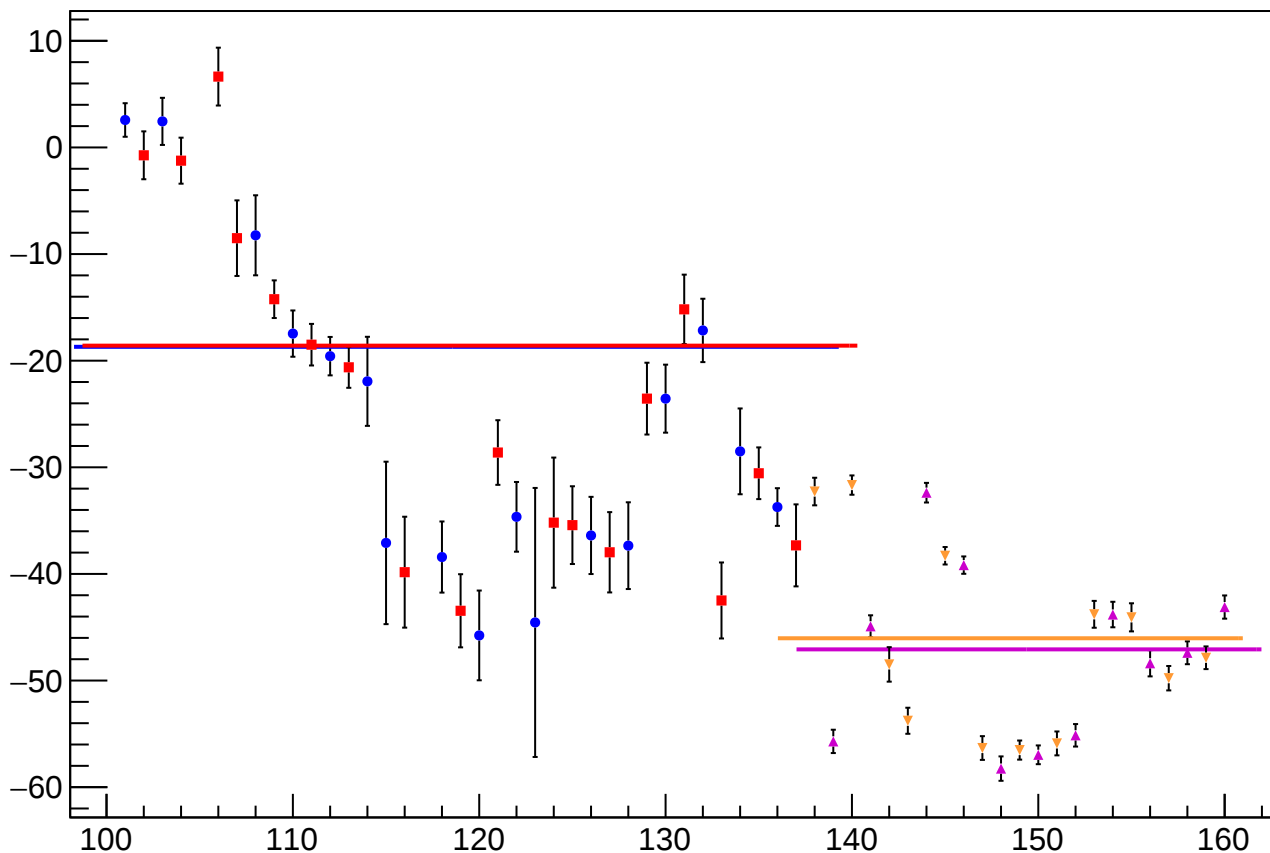
Right: 32.620 $\pm$ 0.266  $\chi^2$ /NDF: 1178.1/34

In: 30.559 $\pm$ 0.189  $\chi^2$ /NDF: 842.3/27

Out: 31.435 $\pm$ 0.191  $\chi^2$ /NDF: 1405.1/29

All: 30.994 $\pm$ 0.134  $\chi^2$ /NDF: 2258.1/57

reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-18.699 \pm 0.667$   $\chi^2/\text{NDF}: 519.1/16$

Left Out:  $-46.035 \pm 0.315$   $\chi^2/\text{NDF}: 815.3/11$

Right Out:  $-18.590 \pm 0.648$   $\chi^2/\text{NDF}: 461.3/17$

Left In:  $-47.077 \pm 0.309$   $\chi^2/\text{NDF}: 717.6/10$

Left:  $-46.567 \pm 0.221$   $\chi^2/\text{NDF}: 1538.5/22$

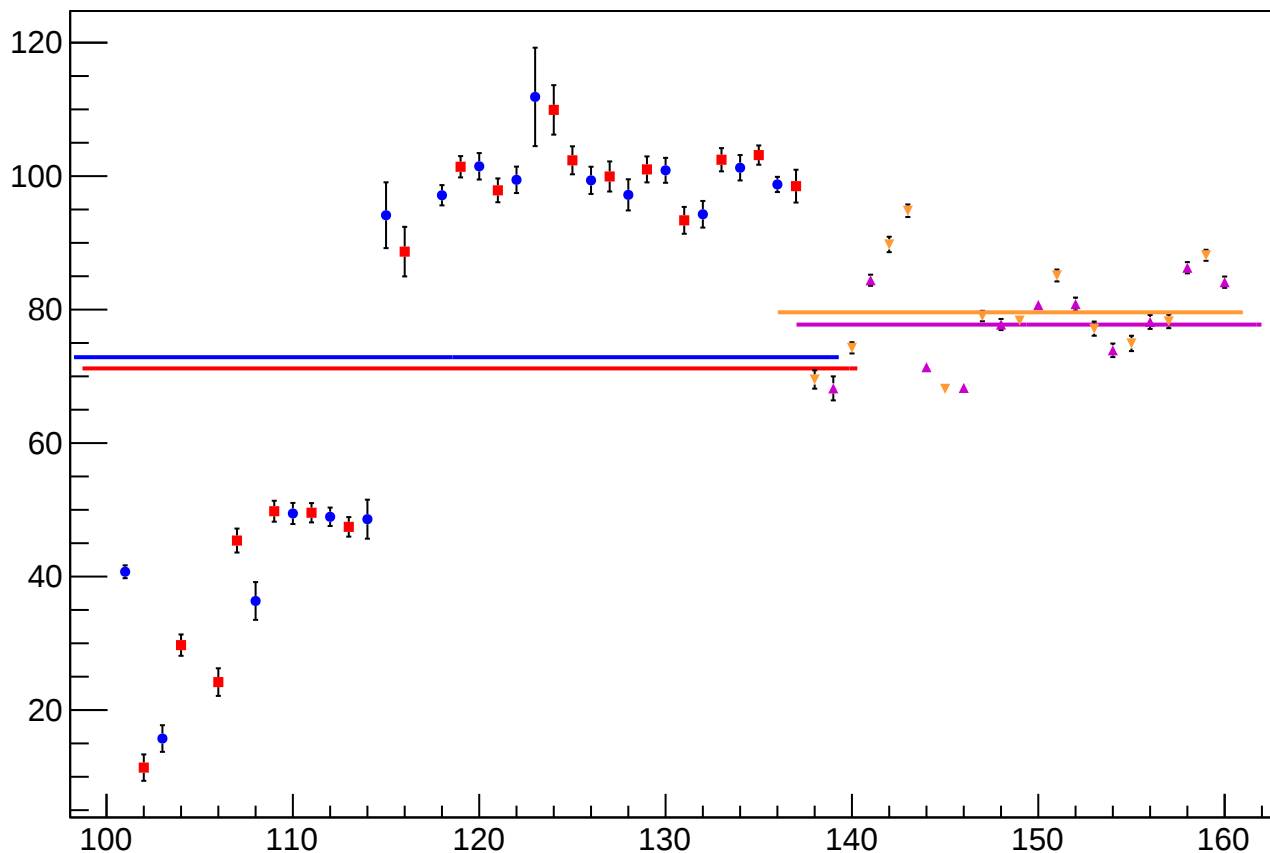
Right:  $-18.643 \pm 0.464$   $\chi^2/\text{NDF}: 980.4/34$

In:  $-42.063 \pm 0.280$   $\chi^2/\text{NDF}: 2729.1/27$

Out:  $-40.774 \pm 0.284$   $\chi^2/\text{NDF}: 2728.6/29$

All:  $-41.427 \pm 0.199$   $\chi^2/\text{NDF}: 5468.2/57$

reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 72.870 $\pm$ 0.427  $\chi^2$ /NDF: 4727.1/16

Left Out: 79.594 $\pm$ 0.264  $\chi^2$ /NDF: 841.4/11

Right Out: 71.190 $\pm$ 0.434  $\chi^2$ /NDF: 5375.1/17

Left In: 77.754 $\pm$ 0.260  $\chi^2$ /NDF: 565.5/10

Left: 78.660 $\pm$ 0.185  $\chi^2$ /NDF: 1431.7/22

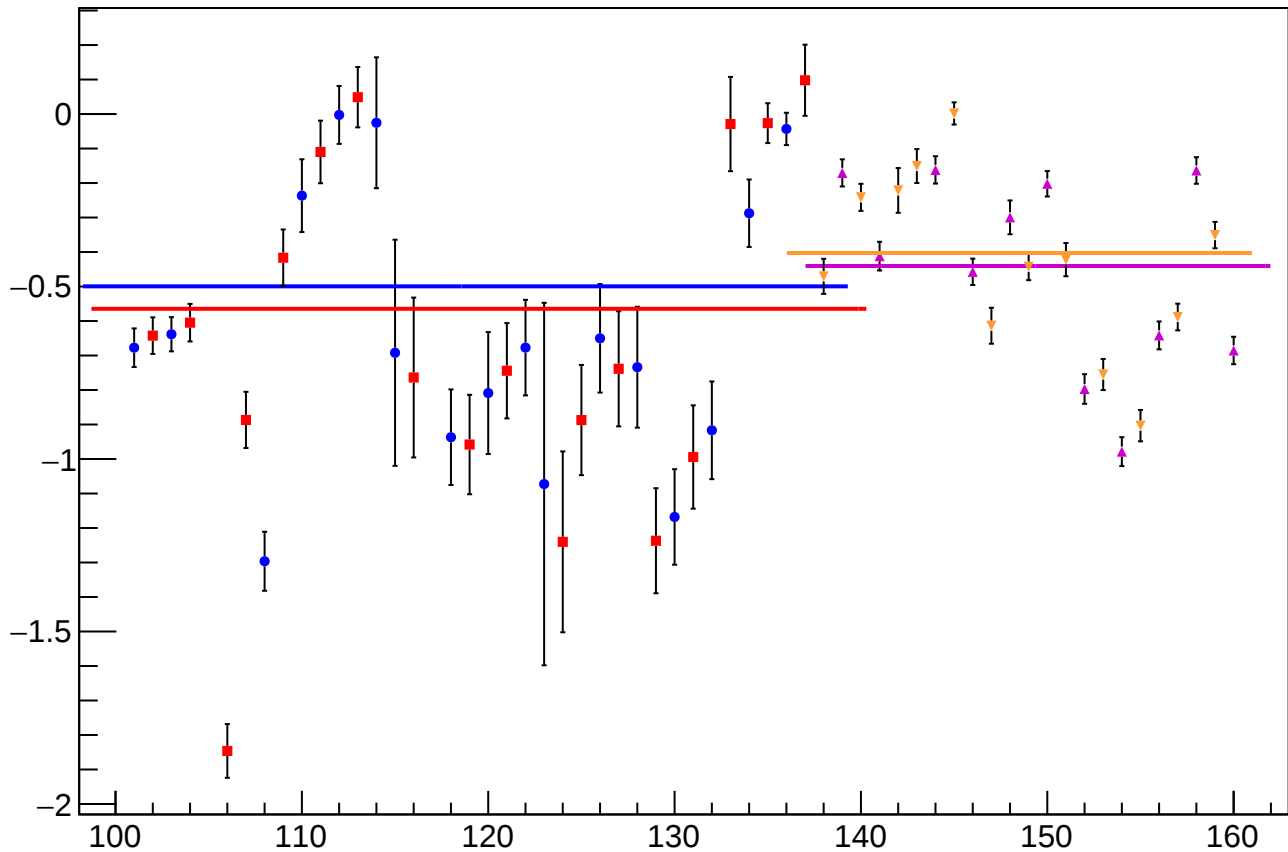
Right: 72.045 $\pm$ 0.304  $\chi^2$ /NDF: 10109.9/34

In: 76.434 $\pm$ 0.222  $\chi^2$ /NDF: 5388.3/27

Out: 77.331 $\pm$ 0.225  $\chi^2$ /NDF: 6490.5/29

All: 76.875 $\pm$ 0.158  $\chi^2$ /NDF: 11886.8/57

reg\_asym\_sam\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.500 \pm 0.022$   $\chi^2/\text{NDF}$ : 302.6/16

Left Out:  $-0.403 \pm 0.012$   $\chi^2/\text{NDF}$ : 435.6/11

Right Out:  $-0.565 \pm 0.022$   $\chi^2/\text{NDF}$ : 559.4/17

Left In:  $-0.441 \pm 0.012$   $\chi^2/\text{NDF}$ : 495.9/10

Left:  $-0.422 \pm 0.009$   $\chi^2/\text{NDF}$ : 936.2/22

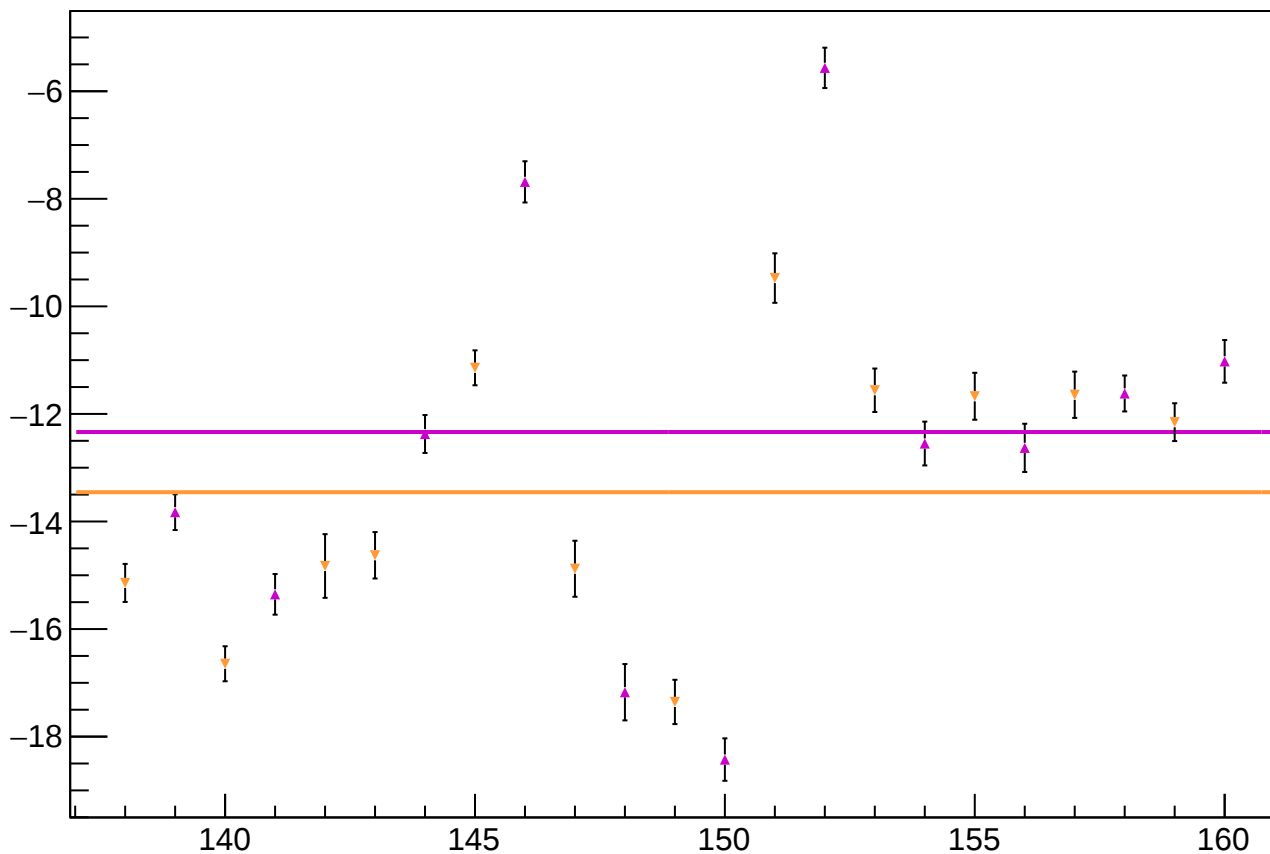
Right:  $-0.533 \pm 0.015$   $\chi^2/\text{NDF}$ : 866.4/34

In:  $-0.454 \pm 0.011$   $\chi^2/\text{NDF}$ : 803.9/27

Out:  $-0.443 \pm 0.011$   $\chi^2/\text{NDF}$ : 1037.3/29

All:  $-0.449 \pm 0.008$   $\chi^2/\text{NDF}$ : 1841.7/57

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



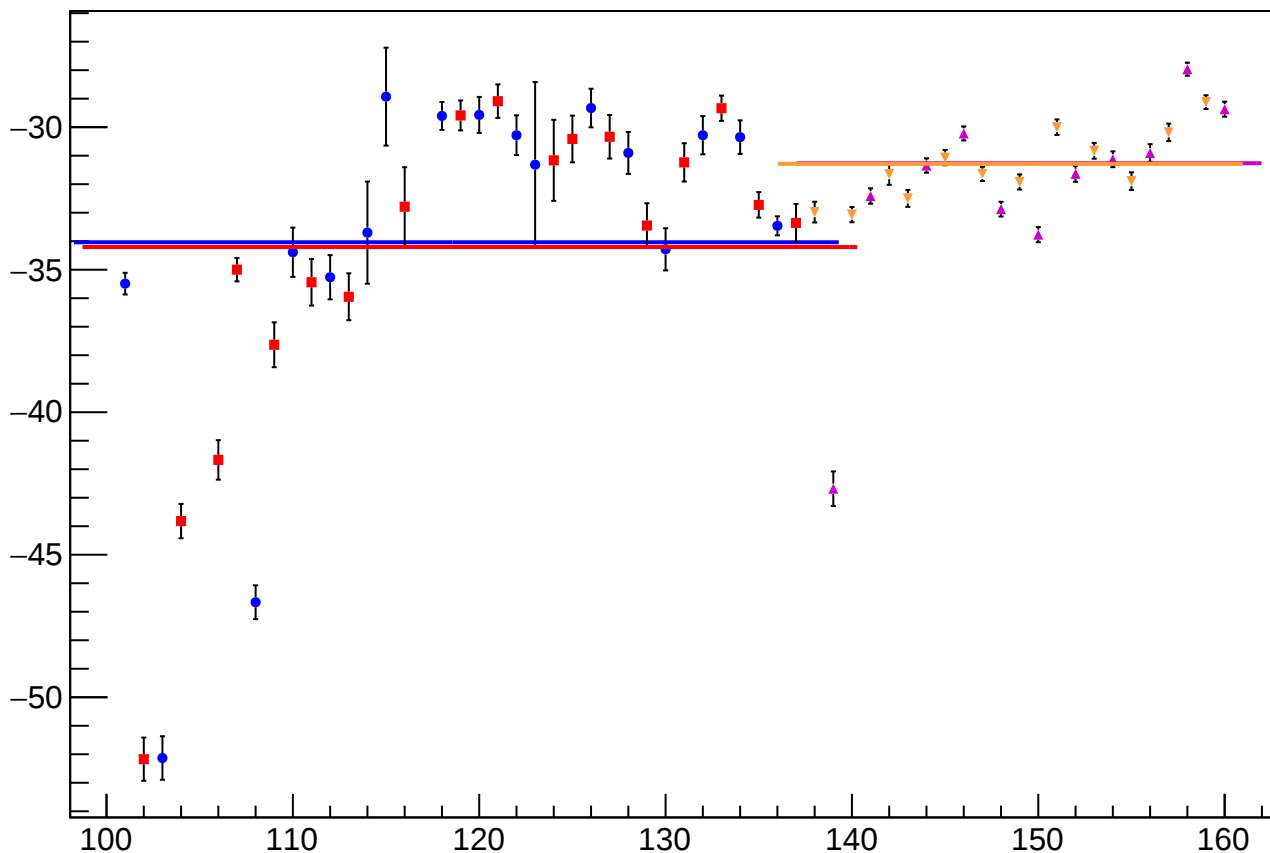
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -13.455+/-0.116  $\chi^2/\text{NDF}$ :424.5/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -12.336+/-0.116  $\chi^2/\text{NDF}$ :896.3/10

Left: -12.896+/-0.082  $\chi^2/\text{NDF}$ : 1367.4/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -12.336+/-0.116  $\chi^2/\text{NDF}$ :896.3/10  
 Out: -13.455+/-0.116  $\chi^2/\text{NDF}$ :424.5/11

All: -12.896+/-0.082  $\chi^2/\text{NDF}$ : 1367.4/22

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-34.038 \pm 0.151$   $\chi^2/\text{NDF}: 1342.9/16$

Left Out:  $-31.286 \pm 0.082$   $\chi^2/\text{NDF}: 213.8/11$

Right Out:  $-34.205 \pm 0.151$   $\chi^2/\text{NDF}: 1320.7/17$

Left In:  $-31.265 \pm 0.083$   $\chi^2/\text{NDF}: 778.8/10$

Left:  $-31.275 \pm 0.058$   $\chi^2/\text{NDF}: 992.6/22$

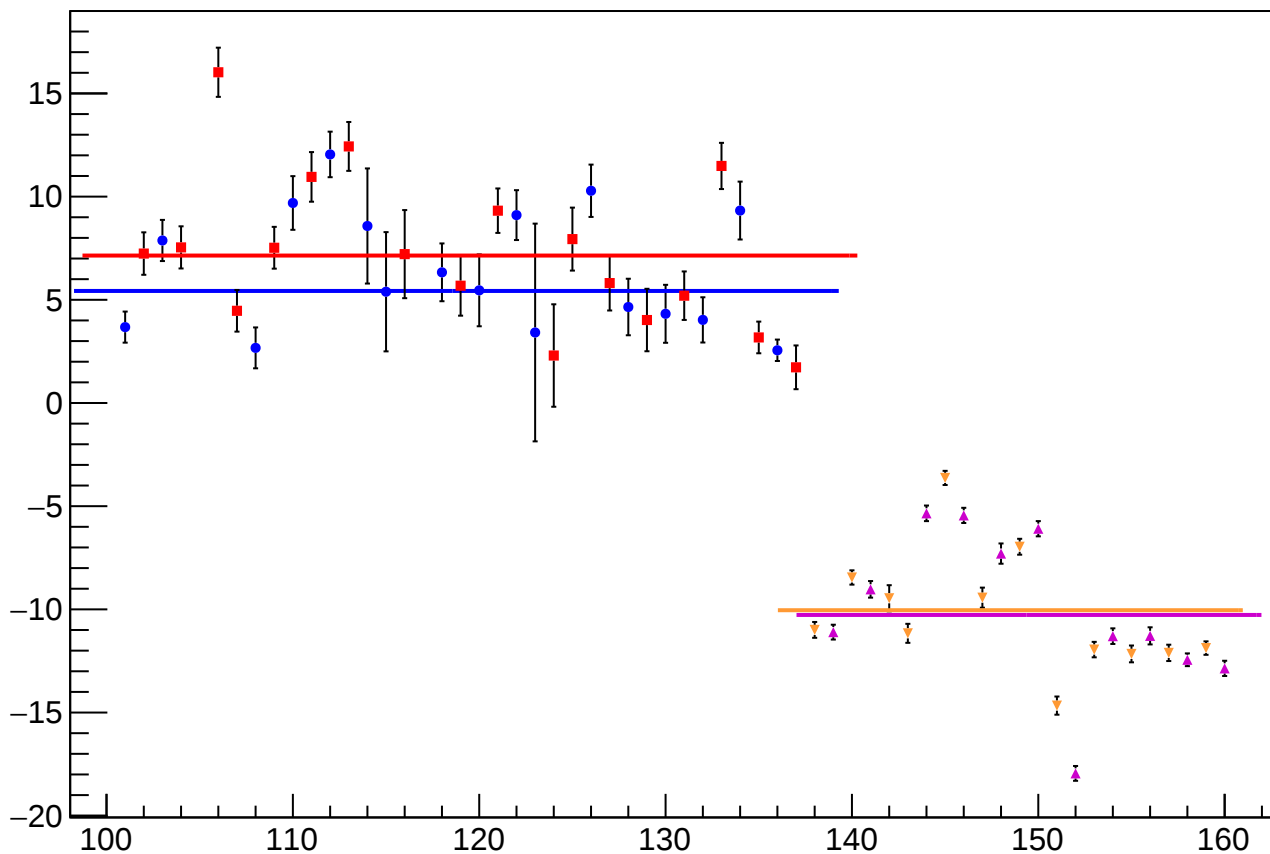
Right:  $-34.121 \pm 0.107$   $\chi^2/\text{NDF}: 2664.3/34$

In:  $-31.904 \pm 0.072$   $\chi^2/\text{NDF}: 2381.7/27$

Out:  $-31.953 \pm 0.072$   $\chi^2/\text{NDF}: 1823.5/29$

All:  $-31.928 \pm 0.051$   $\chi^2/\text{NDF}: 4205.5/57$

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $5.429 \pm 0.270$   $\chi^2/\text{NDF}$ : 132.6/16

Left Out:  $-10.041 \pm 0.115$   $\chi^2/\text{NDF}$ : 670.6/11

Right Out:  $7.144 \pm 0.275$   $\chi^2/\text{NDF}$ : 177.9/17

Left In:  $-10.271 \pm 0.113$   $\chi^2/\text{NDF}$ : 1090.8/10

Left:  $-10.158 \pm 0.081$   $\chi^2/\text{NDF}$ : 1763.4/22

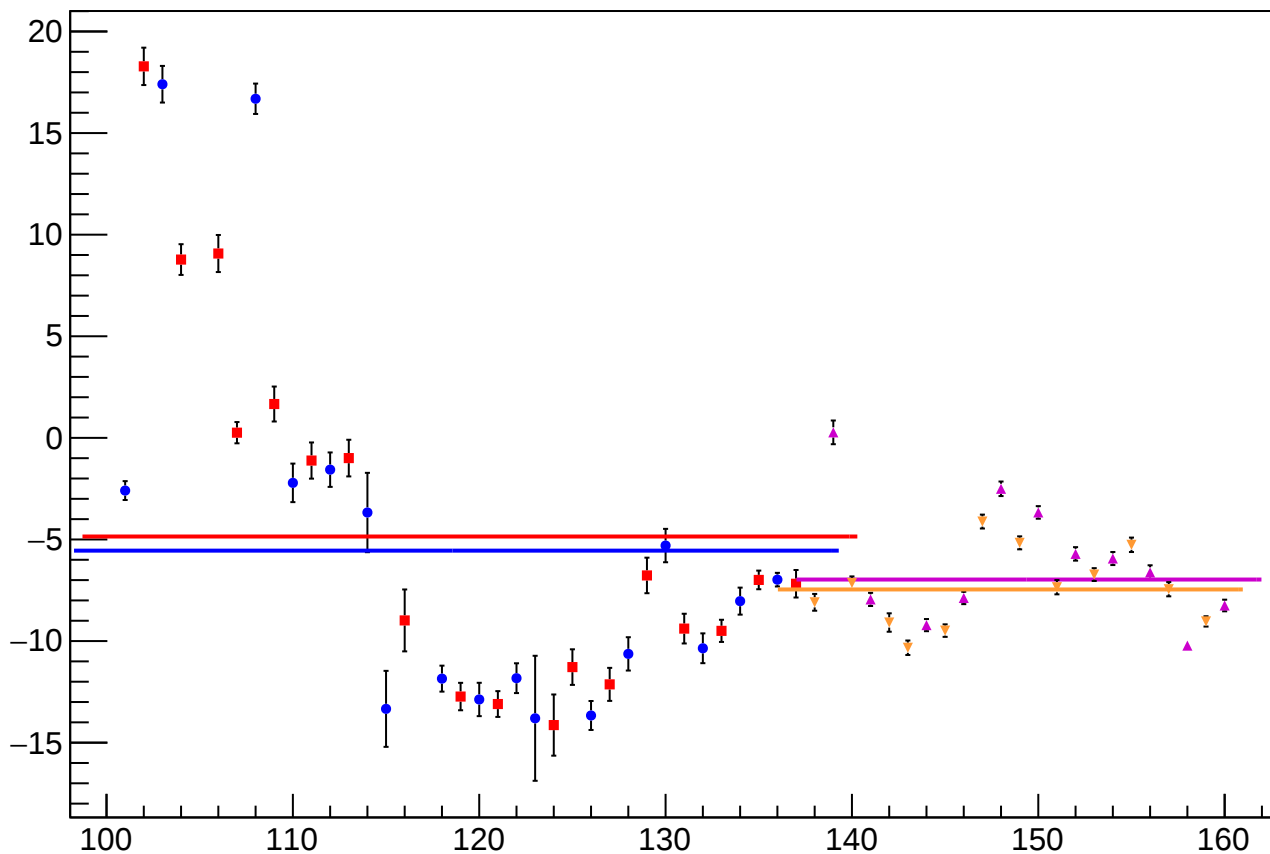
Right:  $6.271 \pm 0.193$   $\chi^2/\text{NDF}$ : 330.3/34

In:  $-7.926 \pm 0.104$   $\chi^2/\text{NDF}$ : 4101.9/27

Out:  $-7.490 \pm 0.106$   $\chi^2/\text{NDF}$ : 4175.7/29

All:  $-7.711 \pm 0.074$   $\chi^2/\text{NDF}$ : 8286.1/57

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-5.550 \pm 0.170$   $\chi^2/\text{NDF}$ : 2126.6/16

Left Out:  $-7.460 \pm 0.097$   $\chi^2/\text{NDF}$ : 352.9/11

Right Out:  $-4.854 \pm 0.173$   $\chi^2/\text{NDF}$ : 2013.1/17

Left In:  $-6.972 \pm 0.096$   $\chi^2/\text{NDF}$ : 723.2/10

Left:  $-7.214 \pm 0.068$   $\chi^2/\text{NDF}$ : 1089.0/22

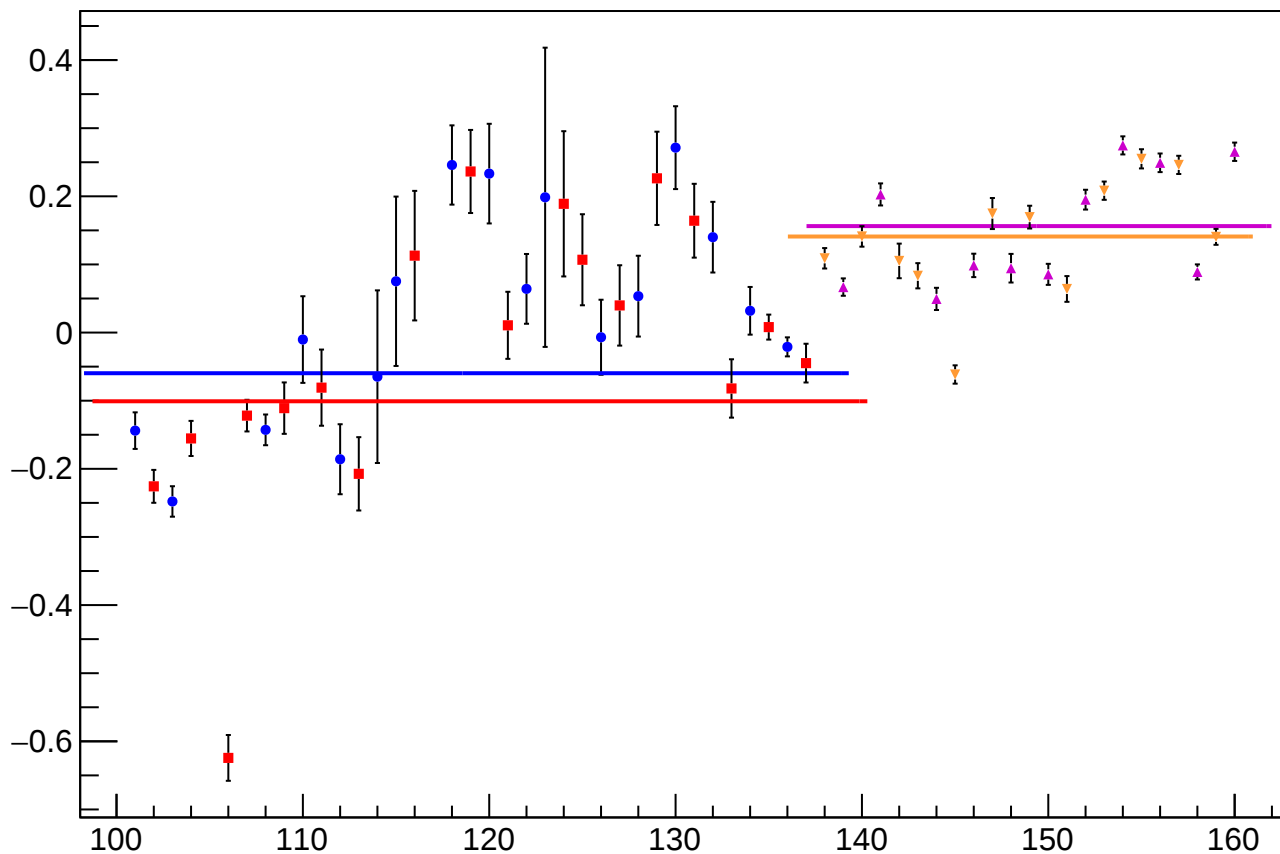
Right:  $-5.208 \pm 0.121$   $\chi^2/\text{NDF}$ : 4147.9/34

In:  $-6.629 \pm 0.084$   $\chi^2/\text{NDF}$ : 2902.8/27

Out:  $-6.838 \pm 0.084$   $\chi^2/\text{NDF}$ : 2539.1/29

All:  $-6.732 \pm 0.059$   $\chi^2/\text{NDF}$ : 5445.0/57

reg\_asym\_sam\_13\_57\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.060 \pm 0.008$   $\chi^2/\text{NDF}$ : 216.6/16

Left Out:  $0.141 \pm 0.004$   $\chi^2/\text{NDF}$ : 417.4/11

Right Out:  $-0.101 \pm 0.008$   $\chi^2/\text{NDF}$ : 428.4/17

Left In:  $0.156 \pm 0.004$   $\chi^2/\text{NDF}$ : 376.9/10

Left:  $0.149 \pm 0.003$   $\chi^2/\text{NDF}$ : 800.4/22

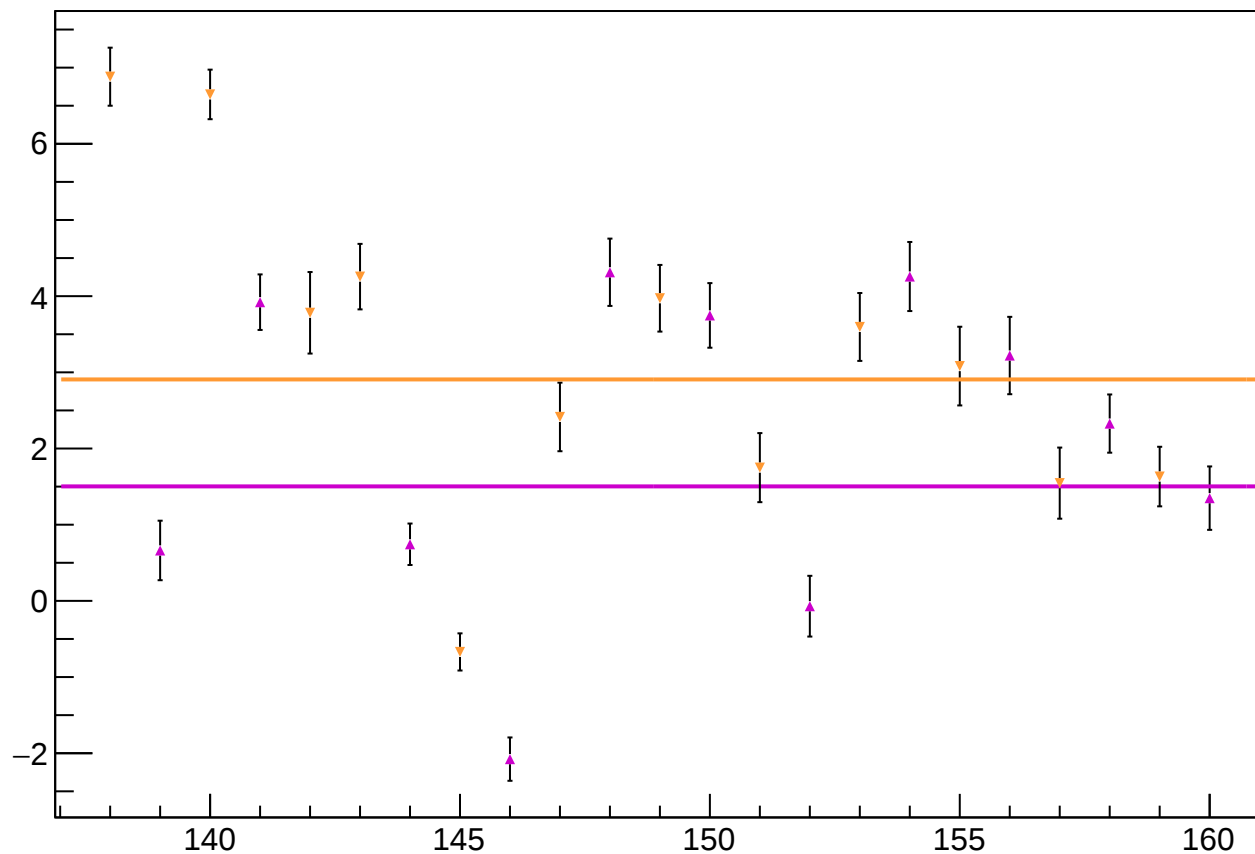
Right:  $-0.080 \pm 0.006$   $\chi^2/\text{NDF}$ : 656.9/34

In:  $0.111 \pm 0.004$   $\chi^2/\text{NDF}$ : 1115.5/27

Out:  $0.089 \pm 0.004$   $\chi^2/\text{NDF}$ : 1488.6/29

All:  $0.100 \pm 0.003$   $\chi^2/\text{NDF}$ : 2620.1/57

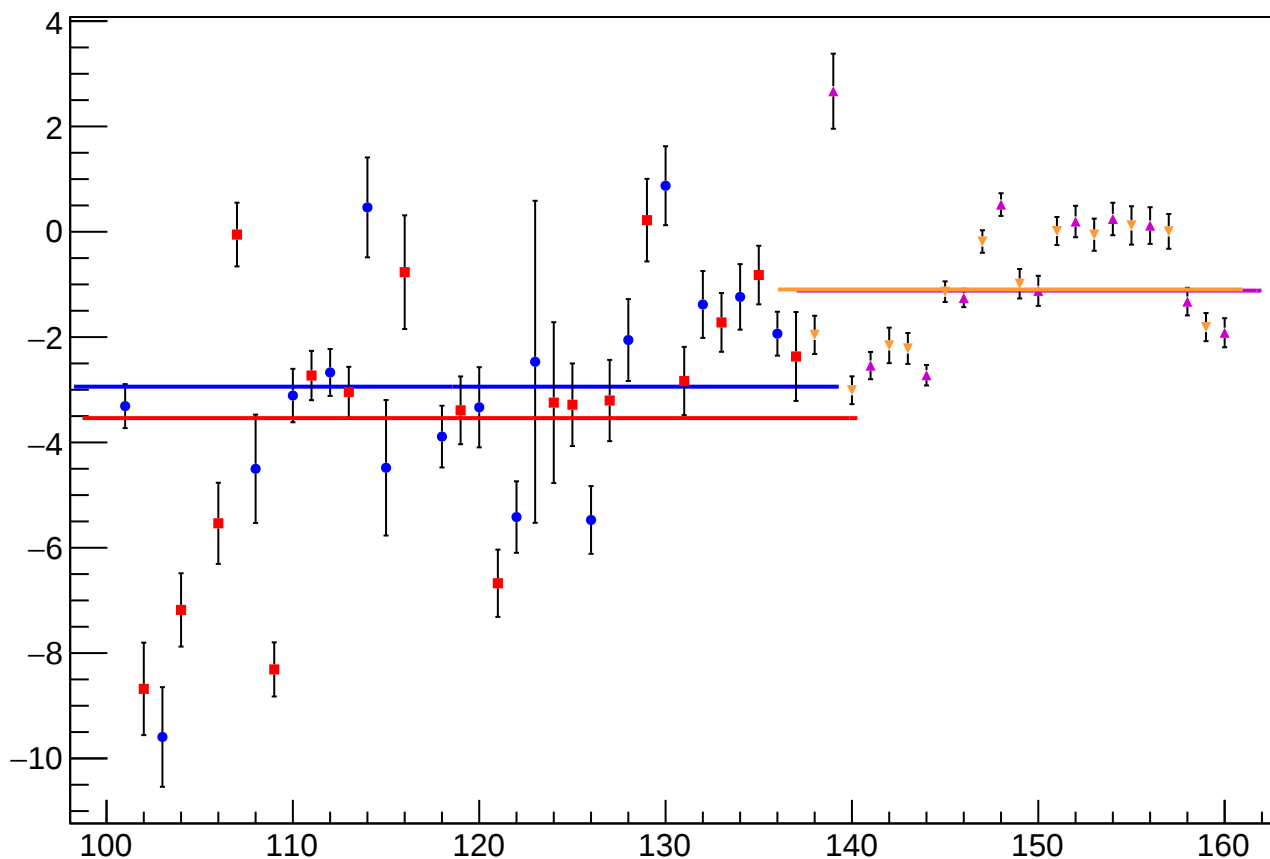
reg\_asym\_sam\_15\_37\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 2.907 $\pm$ 0.114  $\chi^2$ /NDF:504.0/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 1.503 $\pm$ 0.113  $\chi^2$ /NDF:352.0/10

Left: 2.199 $\pm$ 0.080  $\chi^2$ /NDF: 932.5/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 1.503 $\pm$ 0.113  $\chi^2$ /NDF:352.0/10  
 Out: 2.907 $\pm$ 0.114  $\chi^2$ /NDF:504.0/11  
 All: 2.199 $\pm$ 0.080  $\chi^2$ /NDF: 932.5/22

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.941 \pm 0.154$   $\chi^2/\text{NDF}$ : 145.6/16

Left Out:  $-1.096 \pm 0.079$   $\chi^2/\text{NDF}$ : 159.4/11

Right Out:  $-3.538 \pm 0.155$   $\chi^2/\text{NDF}$ : 283.6/17

Left In:  $-1.117 \pm 0.077$   $\chi^2/\text{NDF}$ : 245.4/10

Left:  $-1.107 \pm 0.055$   $\chi^2/\text{NDF}$ : 404.8/22

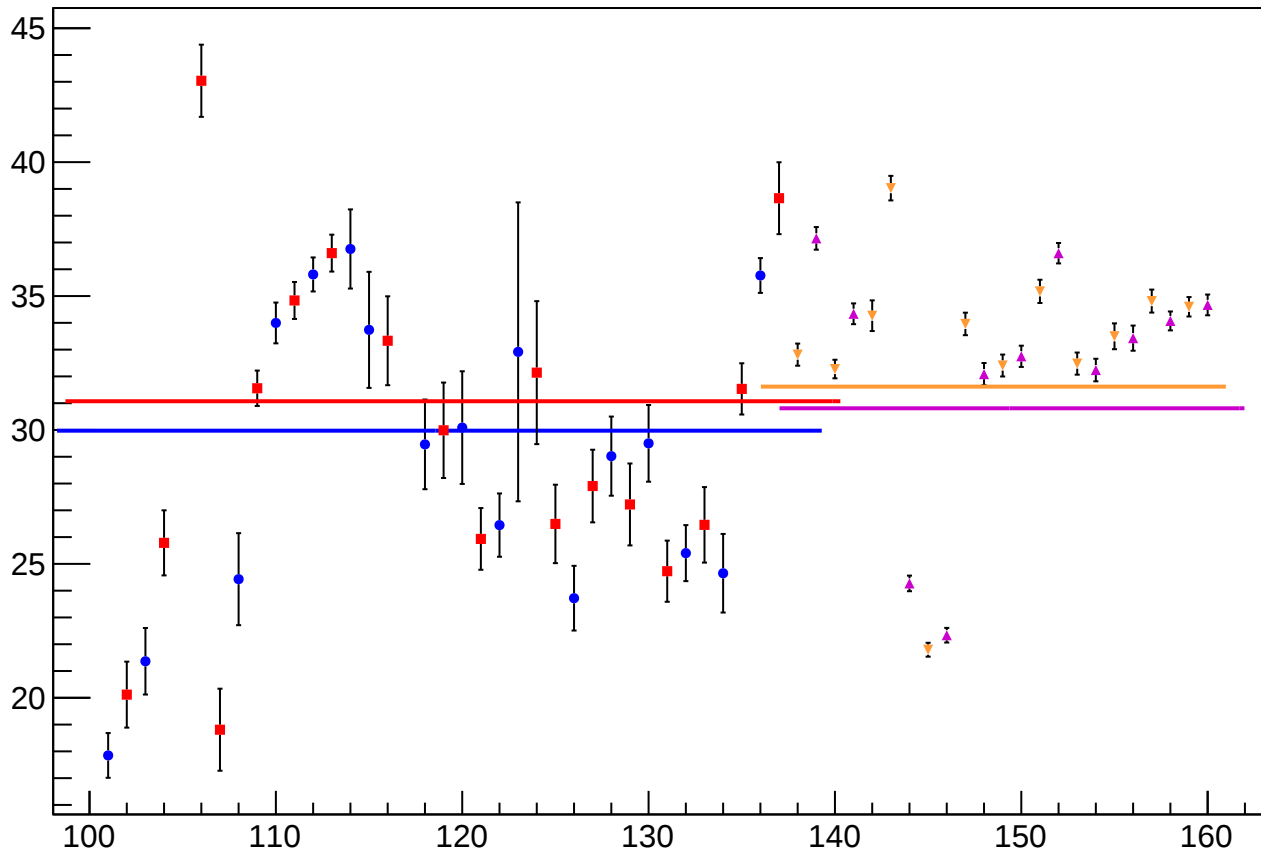
Right:  $-3.239 \pm 0.109$   $\chi^2/\text{NDF}$ : 436.6/34

In:  $-1.482 \pm 0.069$   $\chi^2/\text{NDF}$ : 502.9/27

Out:  $-1.606 \pm 0.071$   $\chi^2/\text{NDF}$ : 640.3/29

All:  $-1.543 \pm 0.049$   $\chi^2/\text{NDF}$ : 1144.8/57

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $29.974 \pm 0.267$   $\chi^2/\text{NDF}: 553.9/16$

Left Out:  $31.619 \pm 0.114$   $\chi^2/\text{NDF}: 1969.9/11$

Right Out:  $31.073 \pm 0.260$   $\chi^2/\text{NDF}: 453.4/17$

Left In:  $30.810 \pm 0.111$   $\chi^2/\text{NDF}: 2265.3/10$

Left:  $31.203 \pm 0.079$   $\chi^2/\text{NDF}: 4261.1/22$

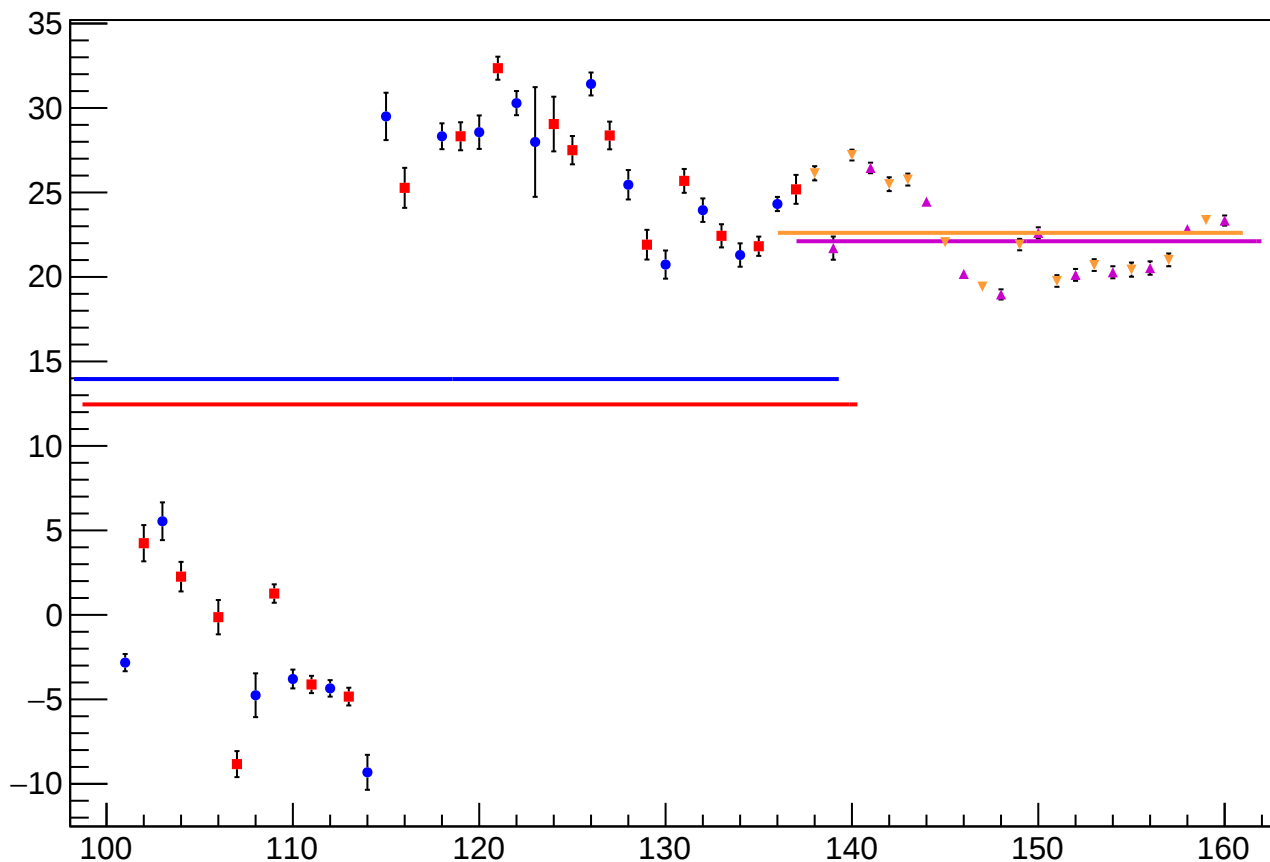
Right:  $30.537 \pm 0.187$   $\chi^2/\text{NDF}: 1016.0/34$

In:  $30.687 \pm 0.102$   $\chi^2/\text{NDF}: 2827.6/27$

Out:  $31.531 \pm 0.104$   $\chi^2/\text{NDF}: 2427.0/29$

All:  $31.101 \pm 0.073$   $\chi^2/\text{NDF}: 5287.9/57$

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 13.957 $\pm$ 0.172  $\chi^2$ /NDF: 7348.7/16

Left Out: 22.611 $\pm$ 0.095  $\chi^2$ /NDF:684.1/11

Right Out: 12.457 $\pm$ 0.174  $\chi^2$ /NDF: 6979.9/17

Left In: 22.114 $\pm$ 0.092  $\chi^2$ /NDF:584.2/10

Left: 22.354 $\pm$ 0.066  $\chi^2$ /NDF: 1282.4/22

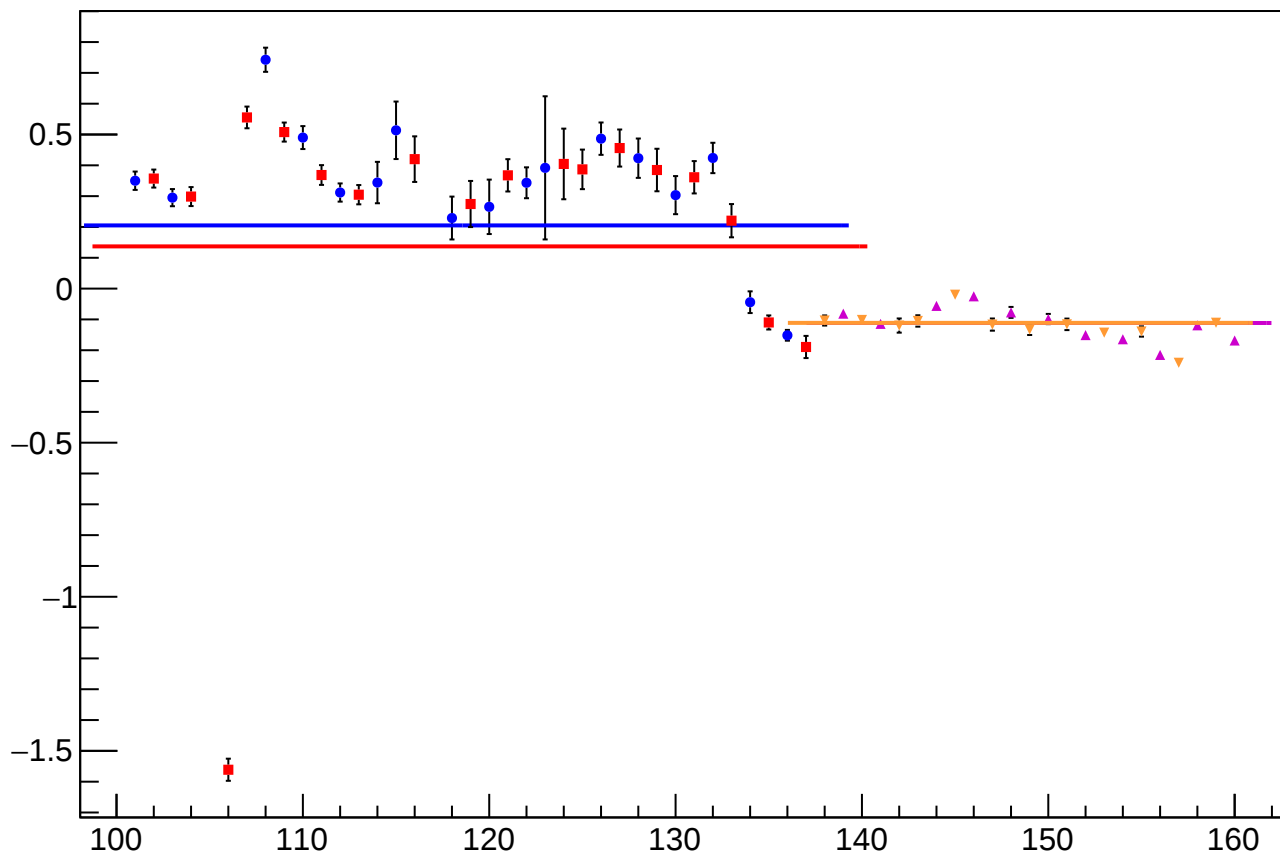
Right: 13.213 $\pm$ 0.122  $\chi^2$ /NDF: 14366.2/34

In: 20.309 $\pm$ 0.081  $\chi^2$ /NDF:9677.8/27

Out: 20.279 $\pm$ 0.083  $\chi^2$ /NDF:10295.1/29

All: 20.294 $\pm$ 0.058  $\chi^2$ /NDF: 19973.0/57

reg\_asym\_sam\_15\_37\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.009$   $\chi^2/\text{NDF}: 846.7/16$

Left Out:  $-0.111 \pm 0.004$   $\chi^2/\text{NDF}: 170.4/11$

Right Out:  $0.137 \pm 0.009$   $\chi^2/\text{NDF}: 3007.9/17$

Left In:  $-0.112 \pm 0.004$   $\chi^2/\text{NDF}: 155.0/10$

Left:  $-0.111 \pm 0.003$   $\chi^2/\text{NDF}: 325.4/22$

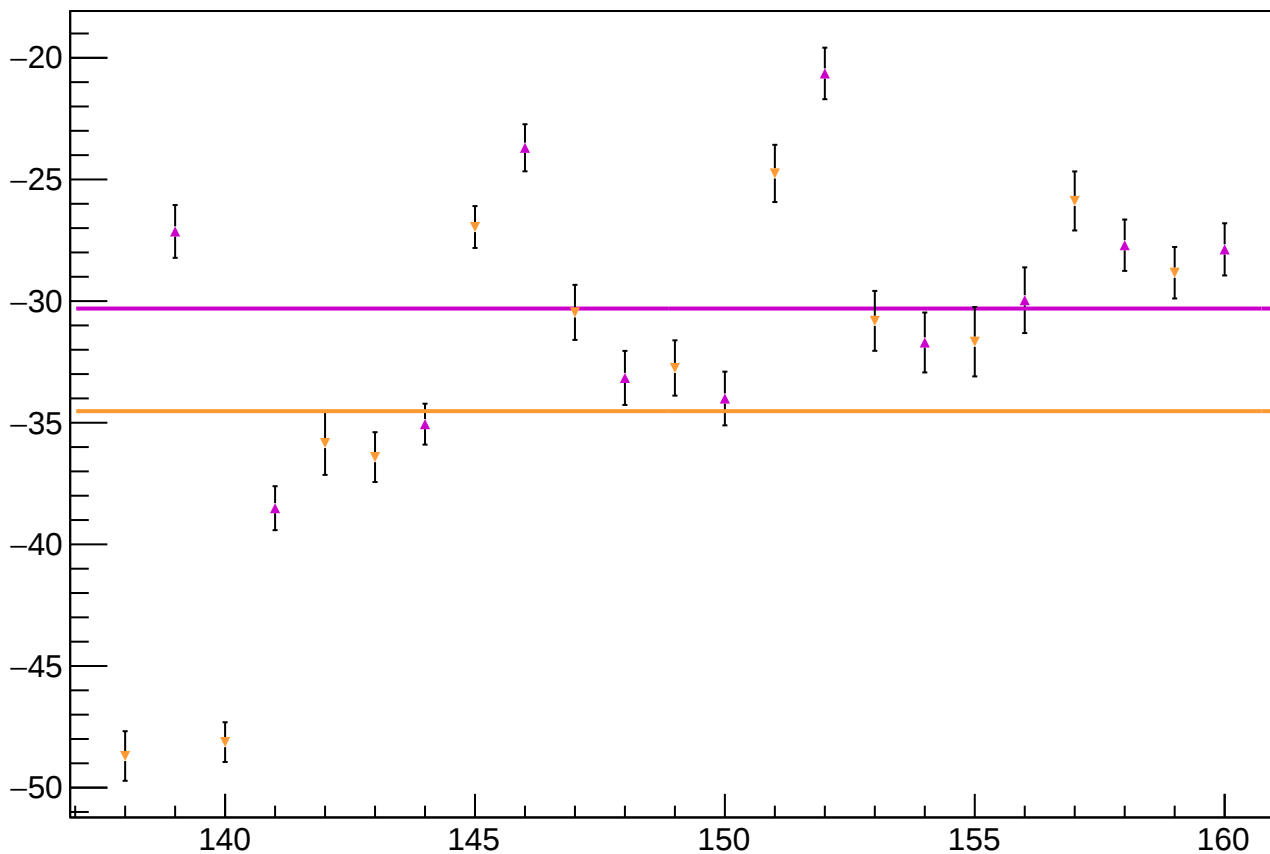
Right:  $0.170 \pm 0.007$   $\chi^2/\text{NDF}: 3881.4/34$

In:  $-0.055 \pm 0.004$   $\chi^2/\text{NDF}: 1938.0/27$

Out:  $-0.064 \pm 0.004$   $\chi^2/\text{NDF}: 3765.3/29$

All:  $-0.059 \pm 0.003$   $\chi^2/\text{NDF}: 5706.0/57$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -34.524+/-0.311  $\chi^2/\text{NDF}$ : 729.8/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -30.306+/-0.315  $\chi^2/\text{NDF}$ : 283.2/10

Left: -32.446+/-0.221  $\chi^2/\text{NDF}$ : 1103.6/22

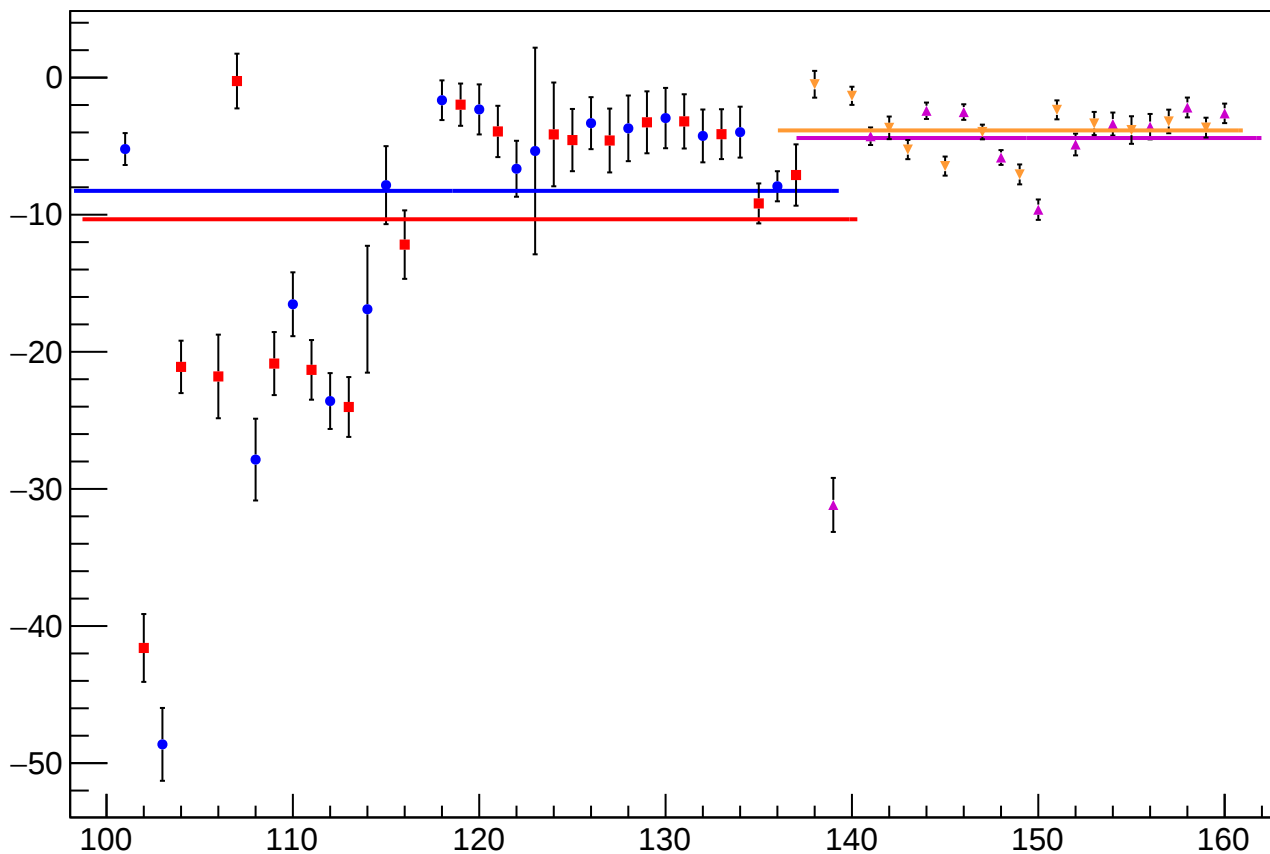
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -30.306+/-0.315  $\chi^2/\text{NDF}$ : 283.2/10

Out: -34.524+/-0.311  $\chi^2/\text{NDF}$ : 729.8/11

All: -32.446+/-0.221  $\chi^2/\text{NDF}$ : 1103.6/22

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-8.261 \pm 0.463$   $\chi^2/\text{NDF}: 411.9/16$

Left Out:  $-3.852 \pm 0.213$   $\chi^2/\text{NDF}: 69.7/11$

Right Out:  $-10.334 \pm 0.491$   $\chi^2/\text{NDF}: 410.9/17$

Left In:  $-4.407 \pm 0.214$   $\chi^2/\text{NDF}: 281.5/10$

Left:  $-4.129 \pm 0.151$   $\chi^2/\text{NDF}: 354.6/22$

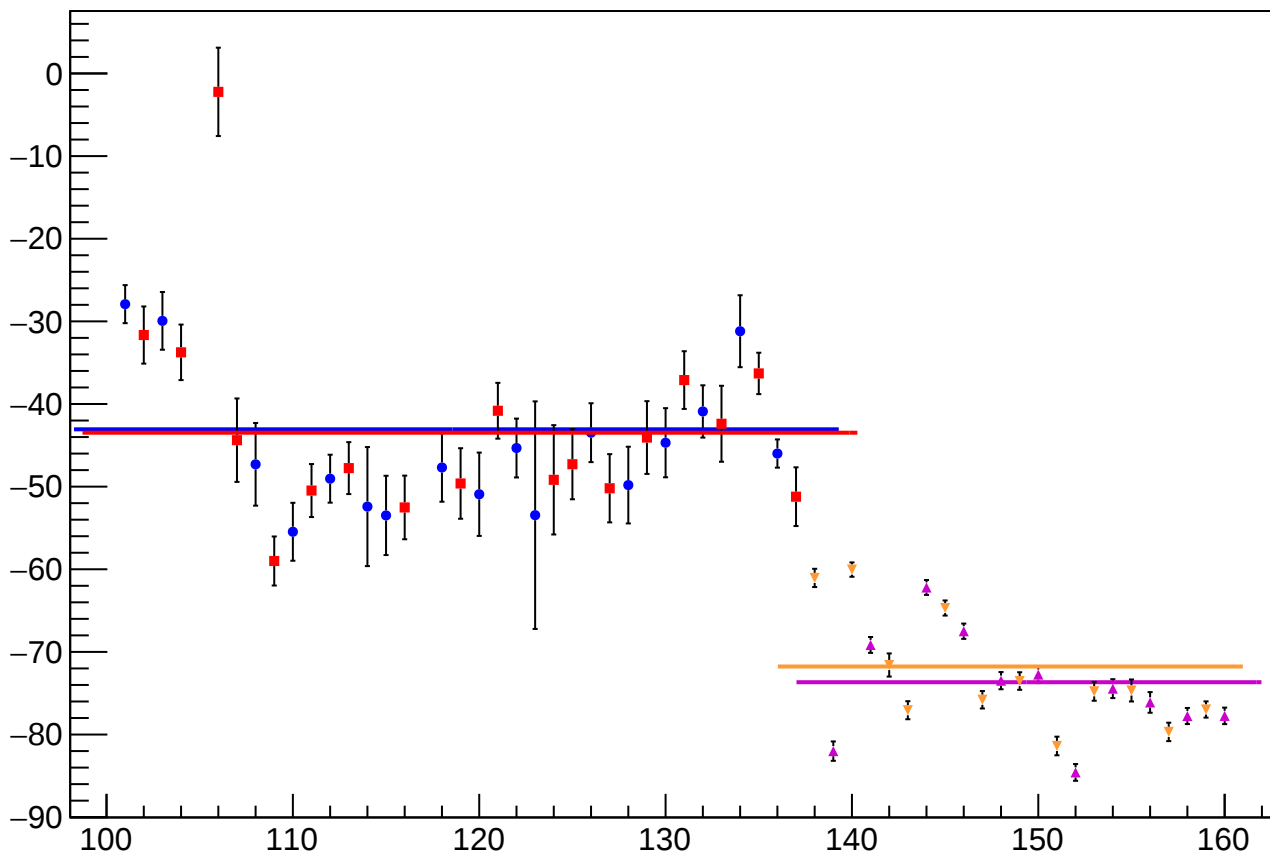
Right:  $-9.235 \pm 0.337$   $\chi^2/\text{NDF}: 832.3/34$

In:  $-5.085 \pm 0.194$   $\chi^2/\text{NDF}: 750.6/27$

Out:  $-4.879 \pm 0.195$   $\chi^2/\text{NDF}: 627.2/29$

All:  $-4.983 \pm 0.138$   $\chi^2/\text{NDF}: 1378.3/57$

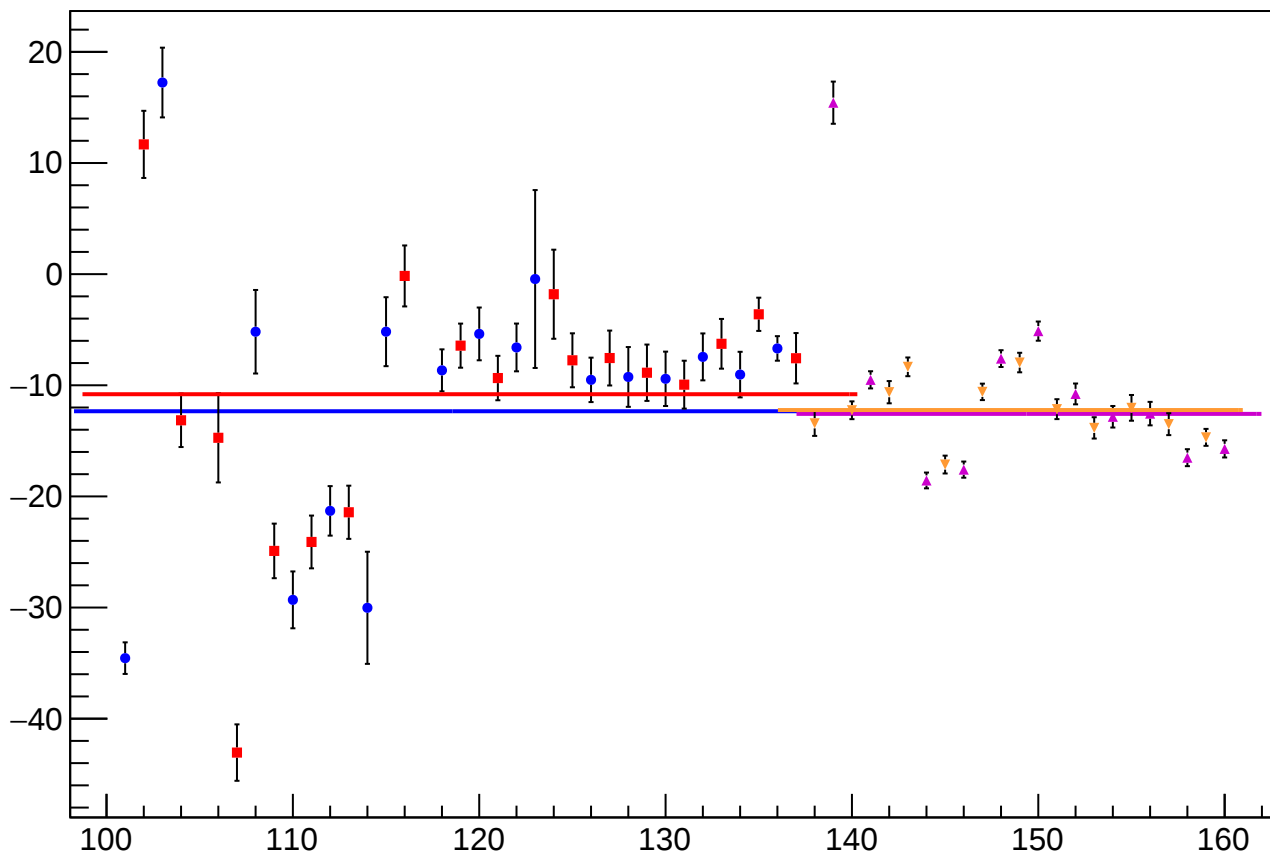
reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-43.064 \pm 0.835$   $\chi^2/\text{NDF}: 99.0/16$   
 Left Out:  $-71.765 \pm 0.310$   $\chi^2/\text{NDF}: 539.5/11$   
 Right Out:  $-43.473 \pm 0.869$   $\chi^2/\text{NDF}: 142.3/17$   
 Left In:  $-73.667 \pm 0.309$   $\chi^2/\text{NDF}: 434.4/10$

Left:  $-72.720 \pm 0.219$   $\chi^2/\text{NDF}: 992.8/22$   
 Right:  $-43.261 \pm 0.602$   $\chi^2/\text{NDF}: 241.5/34$   
 In:  $-69.993 \pm 0.289$   $\chi^2/\text{NDF}: 1714.5/27$   
 Out:  $-68.575 \pm 0.292$   $\chi^2/\text{NDF}: 1622.8/29$   
 All:  $-69.290 \pm 0.205$   $\chi^2/\text{NDF}: 3349.2/57$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.336 \pm 0.520$   $\chi^2/\text{NDF}: 475.2/16$

Left Out:  $-12.229 \pm 0.256$   $\chi^2/\text{NDF}: 105.8/11$

Right Out:  $-10.804 \pm 0.554$   $\chi^2/\text{NDF}: 361.4/17$

Left In:  $-12.574 \pm 0.255$   $\chi^2/\text{NDF}: 516.8/10$

Left:  $-12.402 \pm 0.181$   $\chi^2/\text{NDF}: 623.5/22$

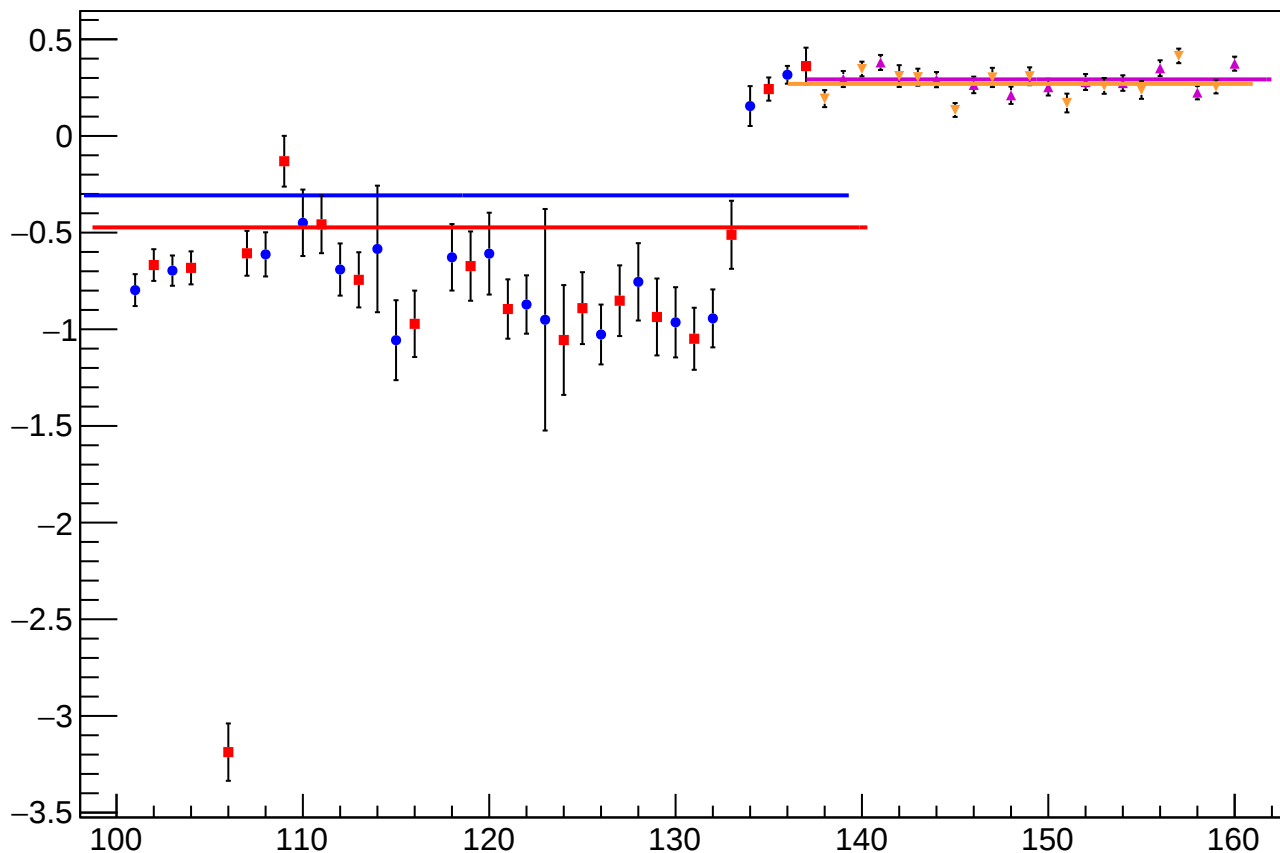
Right:  $-11.618 \pm 0.379$   $\chi^2/\text{NDF}: 840.6/34$

In:  $-12.528 \pm 0.229$   $\chi^2/\text{NDF}: 992.1/27$

Out:  $-11.978 \pm 0.232$   $\chi^2/\text{NDF}: 472.6/29$

All:  $-12.257 \pm 0.163$   $\chi^2/\text{NDF}: 1467.6/57$

reg\_asym\_sam\_24\_68\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.307 \pm 0.028$   $\chi^2/\text{NDF}$ : 372.2/16

Left Out:  $0.269 \pm 0.012$   $\chi^2/\text{NDF}$ : 43.2/11

Right Out:  $-0.473 \pm 0.029$   $\chi^2/\text{NDF}$ : 626.5/17

Left In:  $0.293 \pm 0.012$   $\chi^2/\text{NDF}$ : 20.9/10

Left:  $0.281 \pm 0.009$   $\chi^2/\text{NDF}$ : 65.9/22

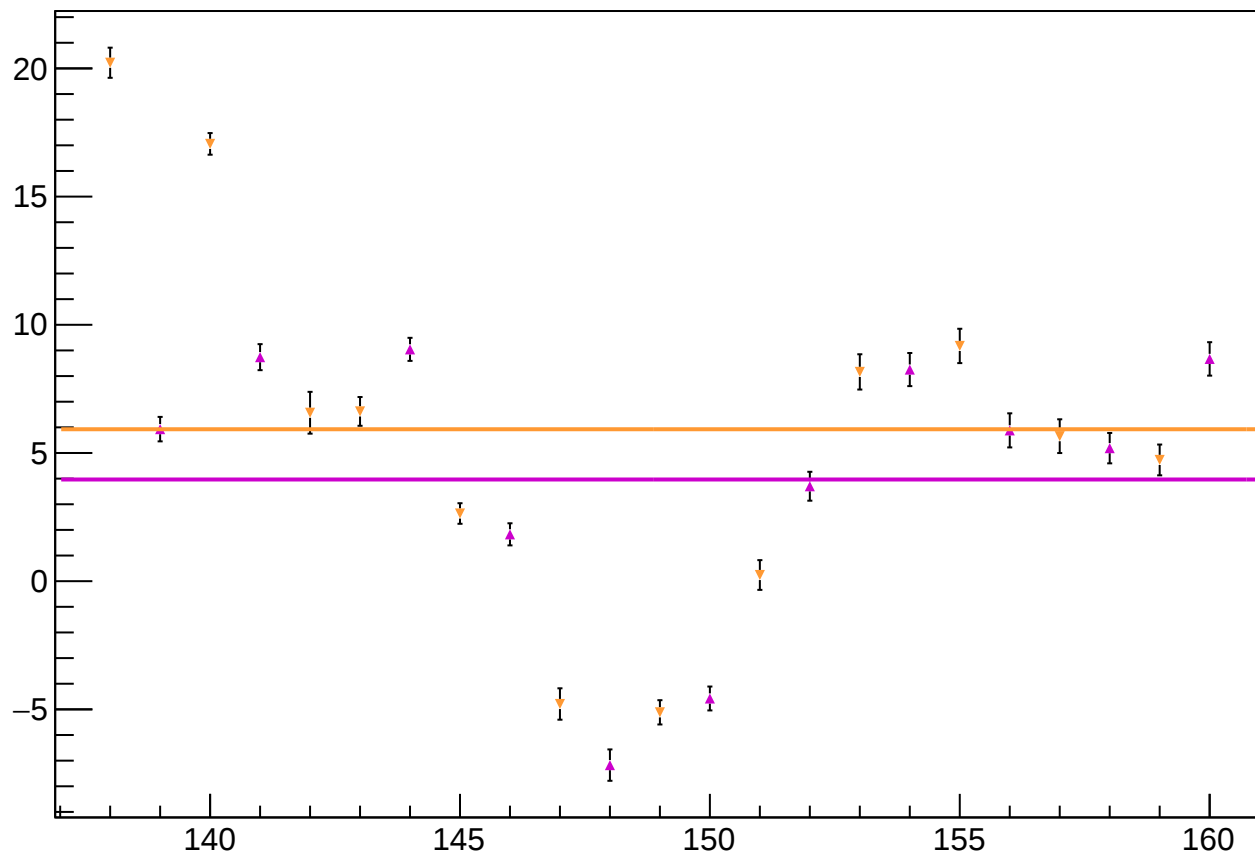
Right:  $-0.387 \pm 0.020$   $\chi^2/\text{NDF}$ : 1016.1/34

In:  $0.196 \pm 0.011$   $\chi^2/\text{NDF}$ : 791.2/27

Out:  $0.155 \pm 0.011$   $\chi^2/\text{NDF}$ : 1238.7/29

All:  $0.175 \pm 0.008$   $\chi^2/\text{NDF}$ : 2036.5/57

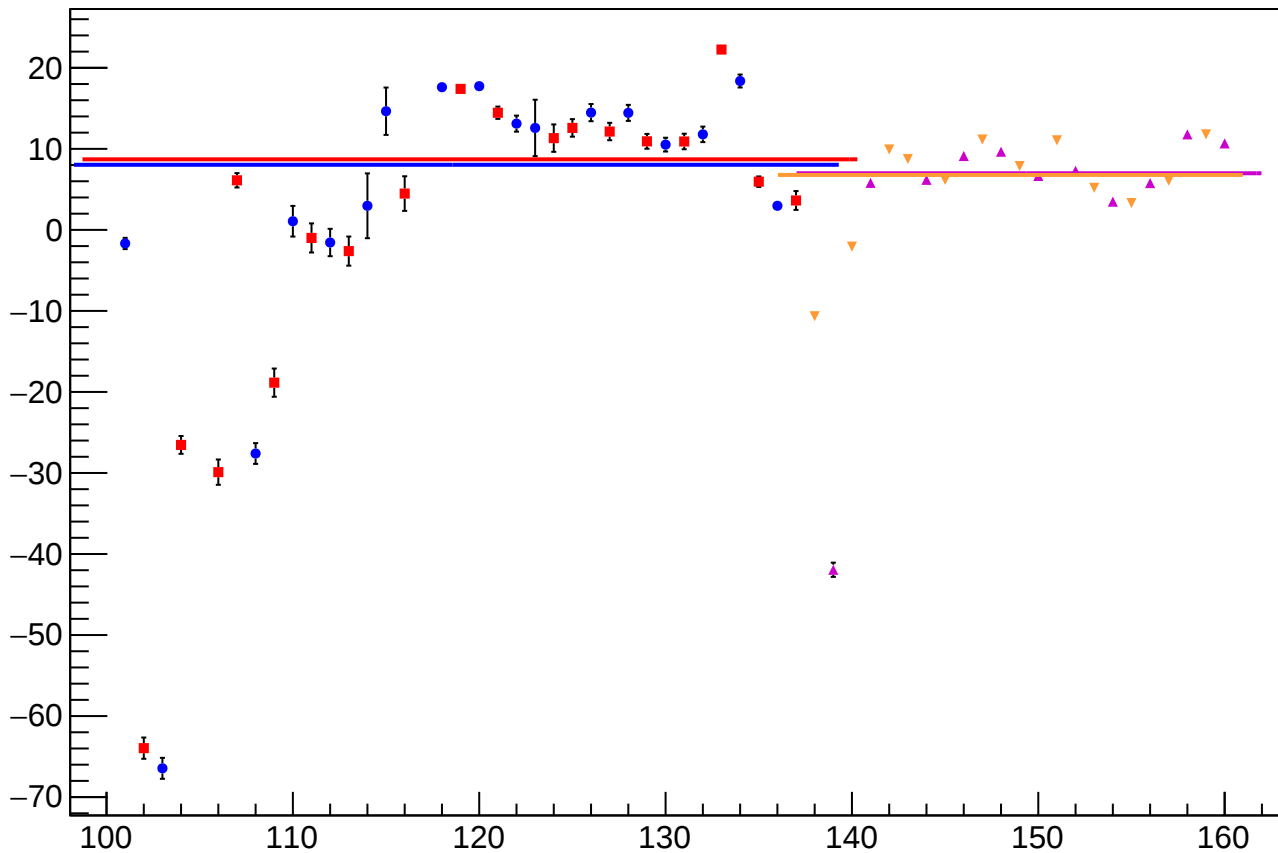
reg\_asym\_sam\_26\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.926 $\pm$ 0.160  $\chi^2$ /NDF:2339.9/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 3.966 $\pm$ 0.160  $\chi^2$ /NDF:1033.7/10

Left: 4.946 $\pm$ 0.113  $\chi^2$ /NDF: 3448.3/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 3.966 $\pm$ 0.160  $\chi^2$ /NDF:1033.7/10  
 Out: 5.926 $\pm$ 0.160  $\chi^2$ /NDF:2339.9/11  
 All: 4.946 $\pm$ 0.113  $\chi^2$ /NDF: 3448.3/22

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $8.035 \pm 0.215$   $\chi^2/\text{NDF}: 5370.3/16$

Left Out:  $6.780 \pm 0.111$   $\chi^2/\text{NDF}: 2164.0/11$

Right Out:  $8.708 \pm 0.213$   $\chi^2/\text{NDF}: 6290.2/17$

Left In:  $6.988 \pm 0.112$   $\chi^2/\text{NDF}: 3531.2/10$

Left:  $6.883 \pm 0.079$   $\chi^2/\text{NDF}: 5696.9/22$

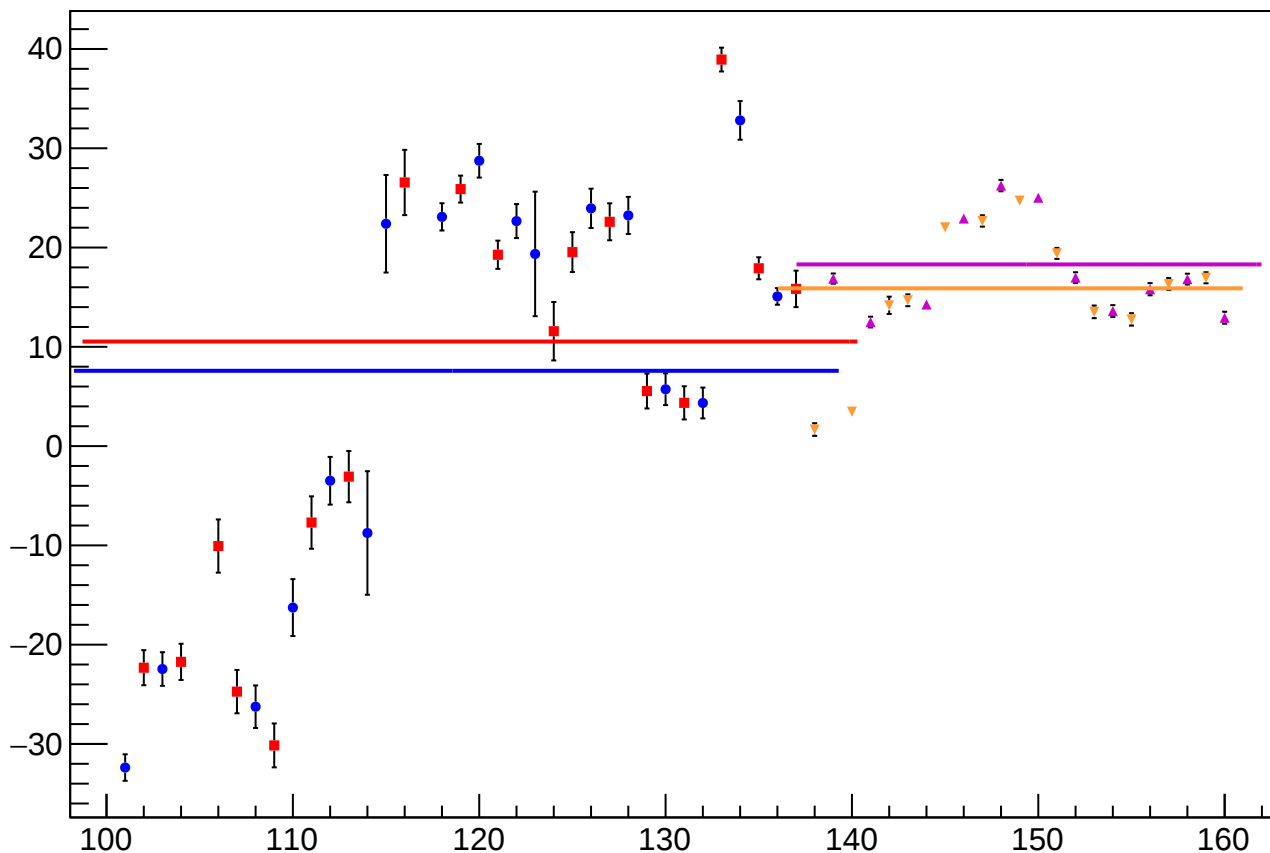
Right:  $8.375 \pm 0.151$   $\chi^2/\text{NDF}: 11665.4/34$

In:  $7.212 \pm 0.100$   $\chi^2/\text{NDF}: 8920.0/27$

Out:  $7.193 \pm 0.099$   $\chi^2/\text{NDF}: 8518.4/29$

All:  $7.203 \pm 0.070$   $\chi^2/\text{NDF}: 17438.5/57$

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $7.585 \pm 0.416$   $\chi^2/\text{NDF}$ : 2322.7/16

Left Out:  $15.892 \pm 0.159$   $\chi^2/\text{NDF}$ : 2099.7/11

Right Out:  $10.532 \pm 0.418$   $\chi^2/\text{NDF}$ : 2279.5/17

Left In:  $18.300 \pm 0.157$   $\chi^2/\text{NDF}$ : 916.7/10

Left:  $17.113 \pm 0.112$   $\chi^2/\text{NDF}$ : 3132.4/22

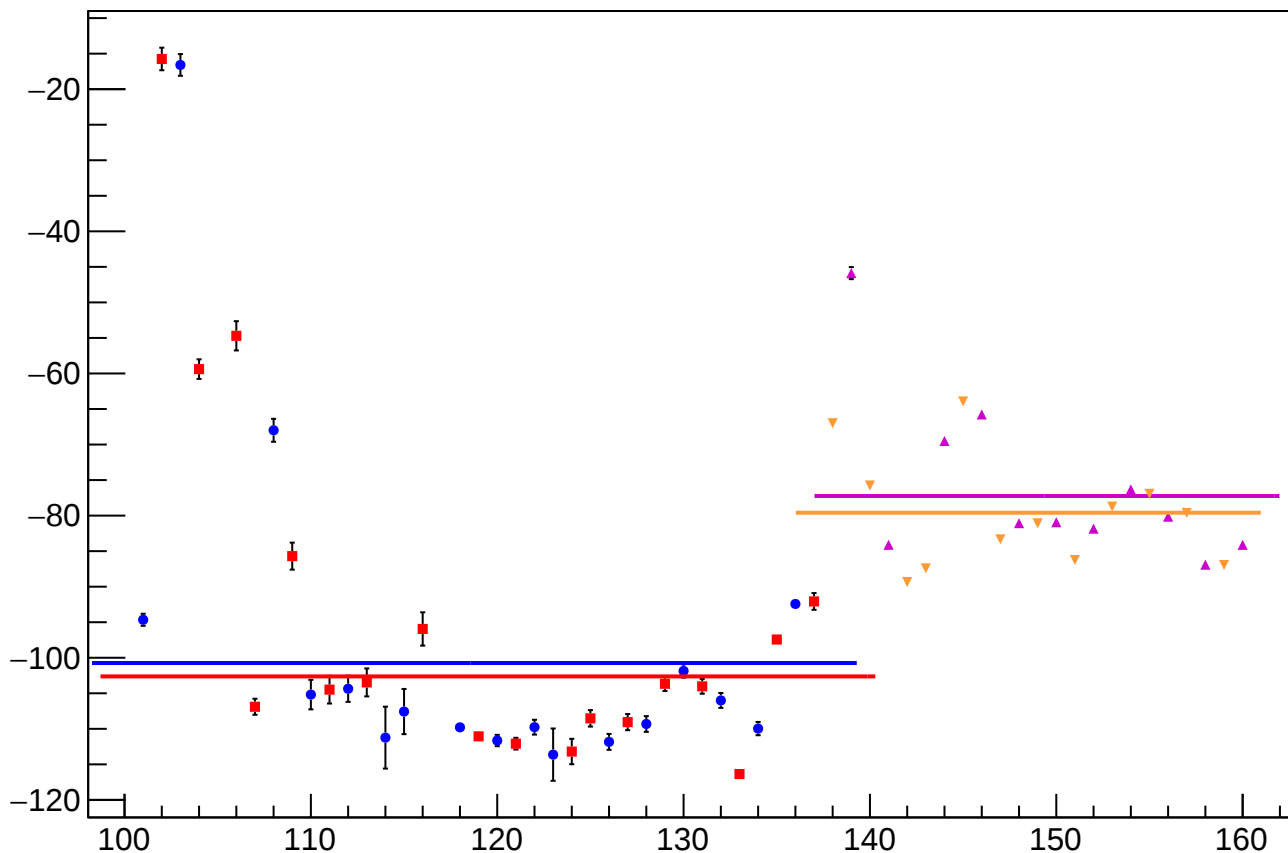
Right:  $9.054 \pm 0.295$   $\chi^2/\text{NDF}$ : 4627.2/34

In:  $16.965 \pm 0.147$   $\chi^2/\text{NDF}$ : 3819.5/27

Out:  $15.212 \pm 0.149$   $\chi^2/\text{NDF}$ : 4523.1/29

All:  $16.099 \pm 0.105$   $\chi^2/\text{NDF}$ : 8412.9/57

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-100.736 \pm 0.248$   $\chi^2/\text{NDF}$ : 4520.6/16

Left Out:  $-79.593 \pm 0.133$   $\chi^2/\text{NDF}$ : 3306.6/11

Right Out:  $-102.625 \pm 0.246$   $\chi^2/\text{NDF}$ : 5716.3/17

Left In:  $-77.238 \pm 0.133$   $\chi^2/\text{NDF}$ : 4167.6/10

Left:  $-78.412 \pm 0.094$   $\chi^2/\text{NDF}$ : 7630.7/22

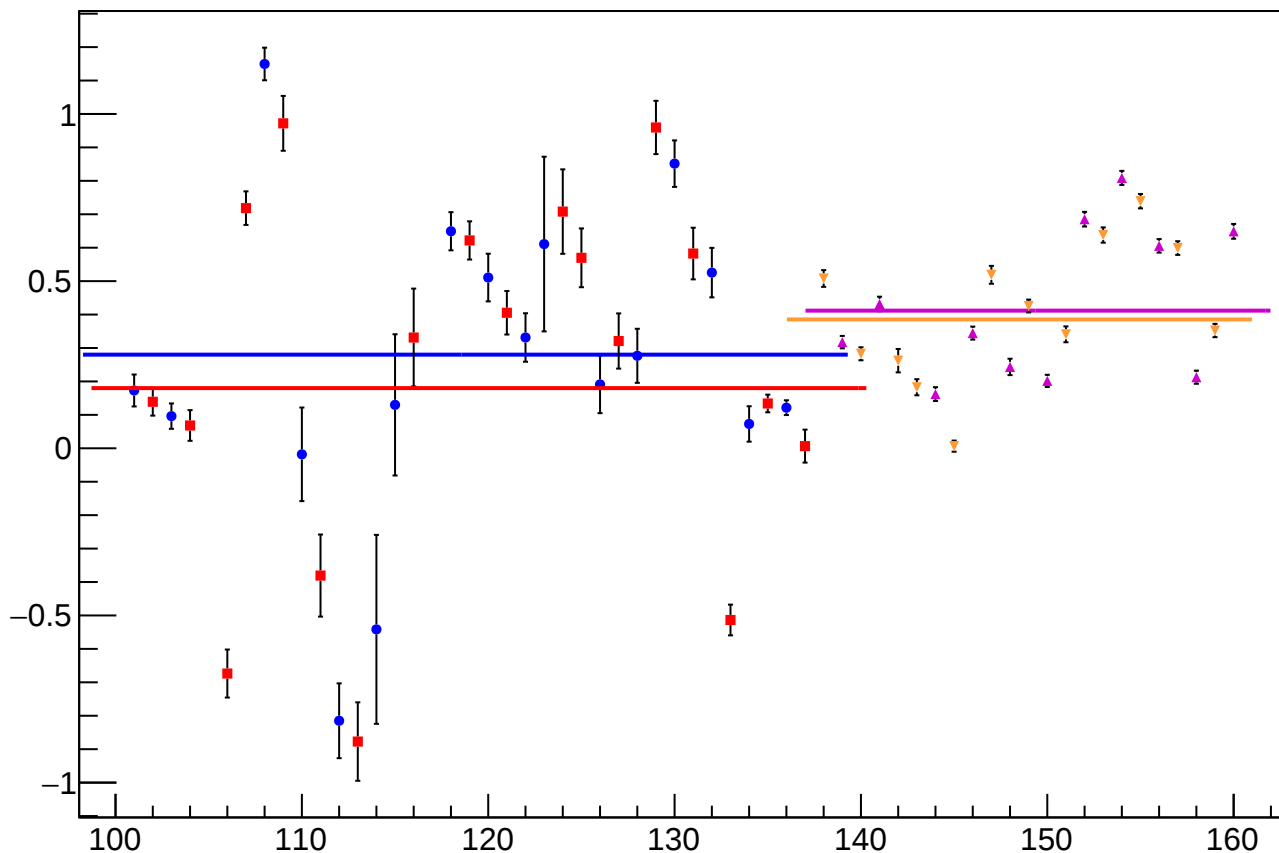
Right:  $-101.689 \pm 0.175$   $\chi^2/\text{NDF}$ : 10266.1/34

In:  $-82.470 \pm 0.117$   $\chi^2/\text{NDF}$ : 15649.6/27

Out:  $-84.813 \pm 0.117$   $\chi^2/\text{NDF}$ : 15796.1/29

All:  $-83.642 \pm 0.083$   $\chi^2/\text{NDF}$ : 31645.7/57

reg\_asym\_sam\_26\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.280 $\pm$ 0.013  $\chi^2$ /NDF: 656.4/16

Left Out: 0.385 $\pm$ 0.006  $\chi^2$ /NDF:1188.7/11

Right Out: 0.180 $\pm$ 0.013  $\chi^2$ /NDF: 937.1/17

Left In: 0.412 $\pm$ 0.006  $\chi^2$ /NDF:1184.0/10

Left: 0.399 $\pm$ 0.004  $\chi^2$ /NDF: 2381.6/22

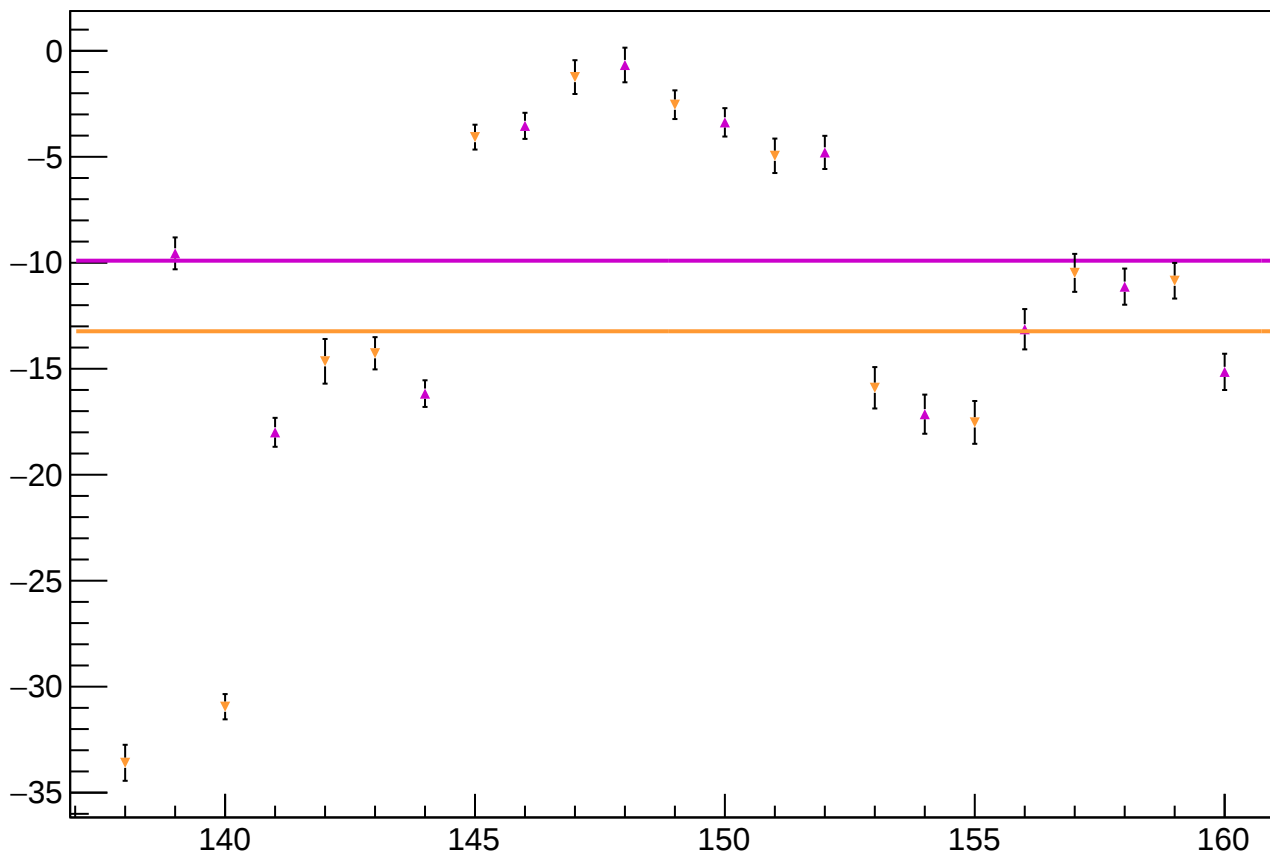
Right: 0.230 $\pm$ 0.010  $\chi^2$ /NDF: 1621.0/34

In: 0.389 $\pm$ 0.006  $\chi^2$ /NDF:1919.2/27

Out: 0.349 $\pm$ 0.006  $\chi^2$ /NDF:2316.2/29

All: 0.369 $\pm$ 0.004  $\chi^2$ /NDF: 4260.6/57

reg\_asym\_sam\_1548\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -13.231+/-0.225  $\chi^2/\text{NDF}$ :2328.0/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -9.901+/-0.227  $\chi^2/\text{NDF}$ :725.1/10

Left: -11.576+/-0.160  $\chi^2/\text{NDF}$ : 3161.6/22

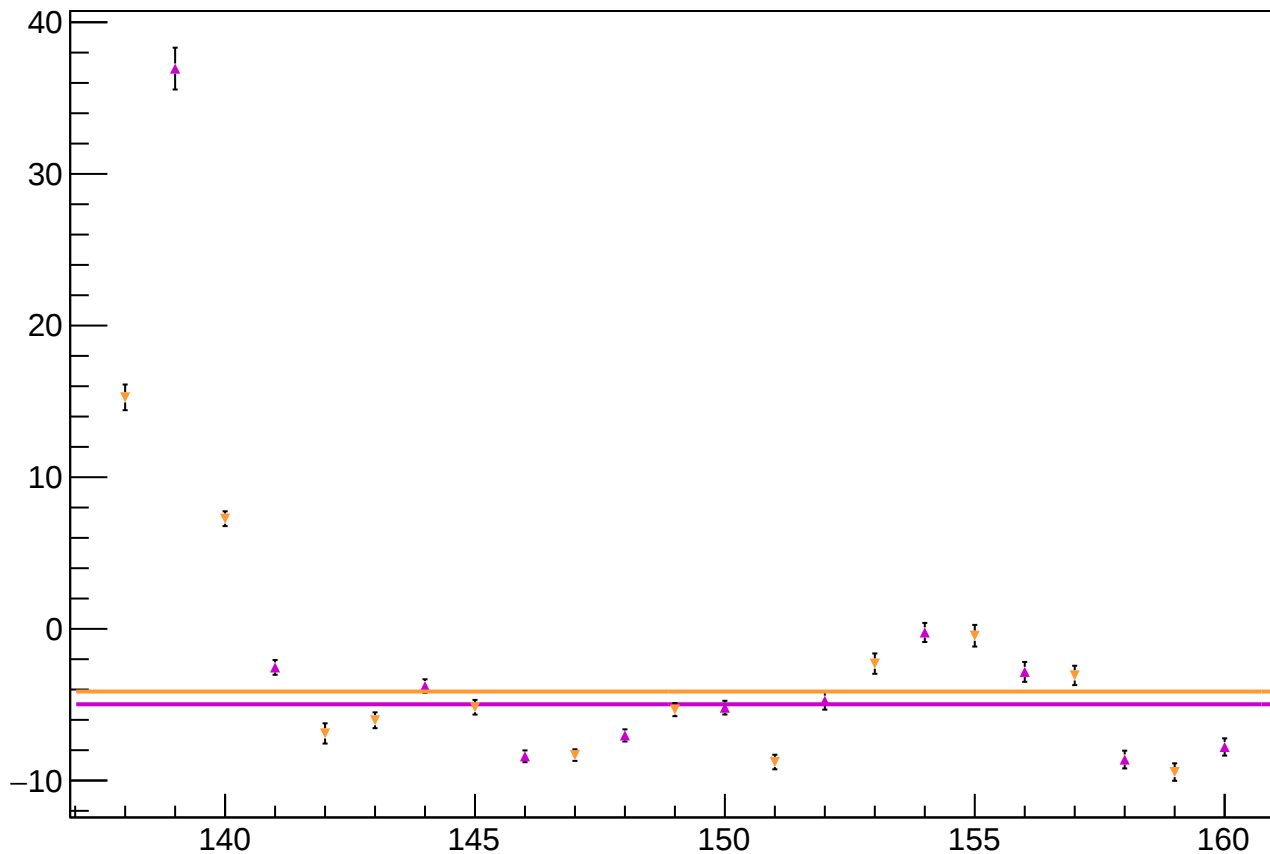
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -9.901+/-0.227  $\chi^2/\text{NDF}$ :725.1/10

Out: -13.231+/-0.225  $\chi^2/\text{NDF}$ :2328.0/11

All: -11.576+/-0.160  $\chi^2/\text{NDF}$ : 3161.6/22

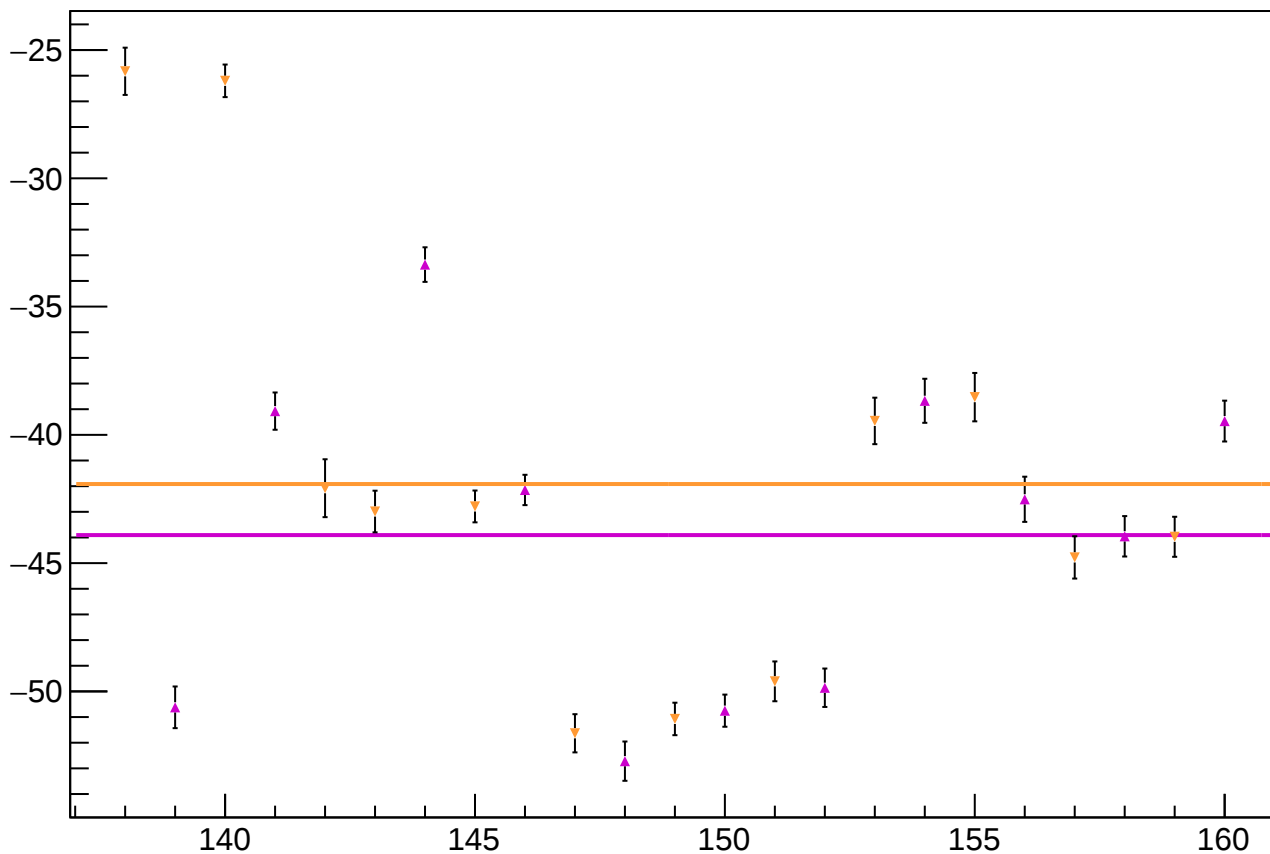
reg\_asym\_sam\_1548\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -4.133+/-0.155  $\chi^2/\text{NDF}$ :1446.1/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.973+/-0.156  $\chi^2/\text{NDF}$ :1190.4/10

Left: -4.549+/-0.110  $\chi^2/\text{NDF}$ : 2651.1/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -4.973+/-0.156  $\chi^2/\text{NDF}$ :1190.4/10  
 Out: -4.133+/-0.155  $\chi^2/\text{NDF}$ :1446.1/11  
 All: -4.549+/-0.110  $\chi^2/\text{NDF}$ : 2651.1/22

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -41.917+/-0.224  $\chi^2/\text{NDF}$ :1438.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -43.907+/-0.222  $\chi^2/\text{NDF}$ :752.0/10

Left: -42.921+/-0.157  $\chi^2/\text{NDF}$ : 2230.7/22

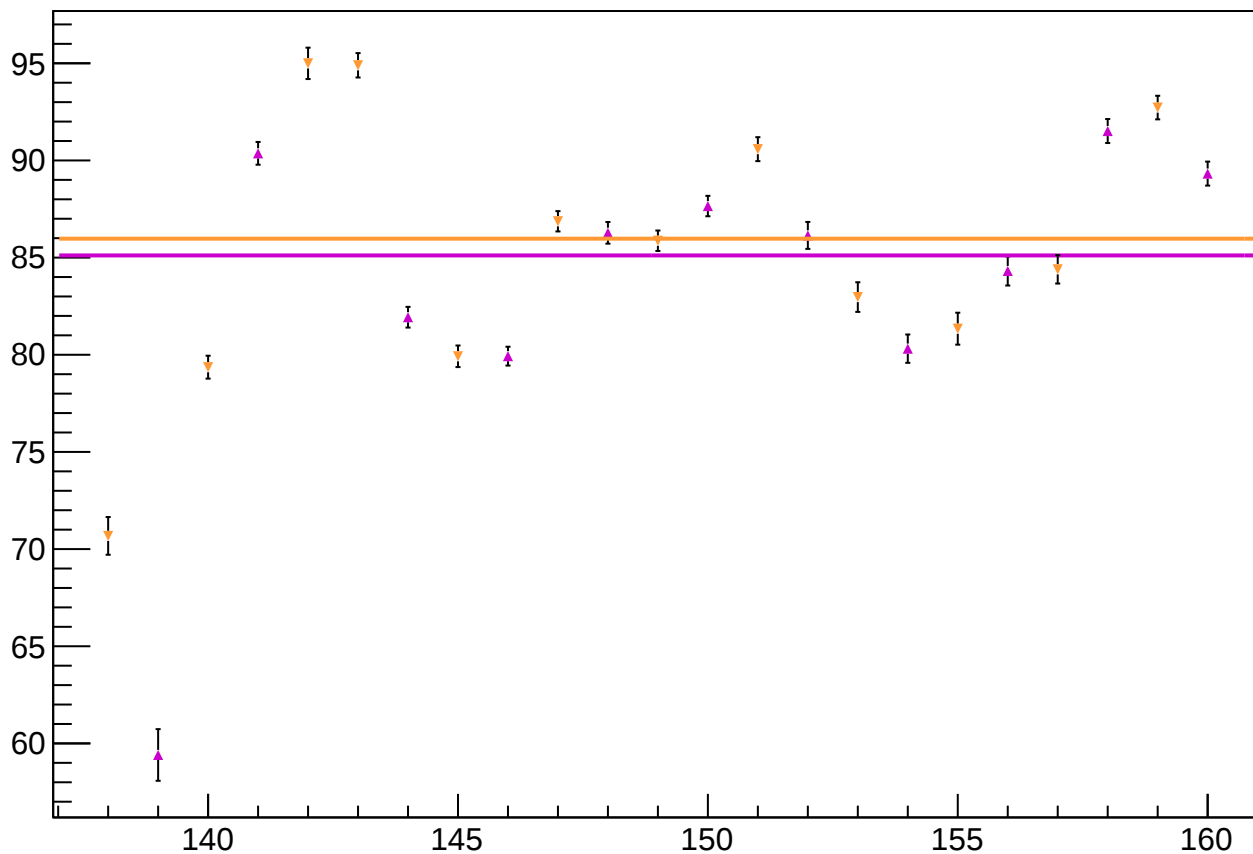
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -43.907+/-0.222  $\chi^2/\text{NDF}$ :752.0/10

Out: -41.917+/-0.224  $\chi^2/\text{NDF}$ :1438.9/11

All: -42.921+/-0.157  $\chi^2/\text{NDF}$ : 2230.7/22

reg\_asym\_sam\_1548\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 85.974+/-0.186     $\chi^2/\text{NDF}$ :1054.1/11  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 85.112+/-0.185     $\chi^2/\text{NDF}$ :832.4/10

Left: 85.542+/-0.131     $\chi^2/\text{NDF}$ : 1897.3/22

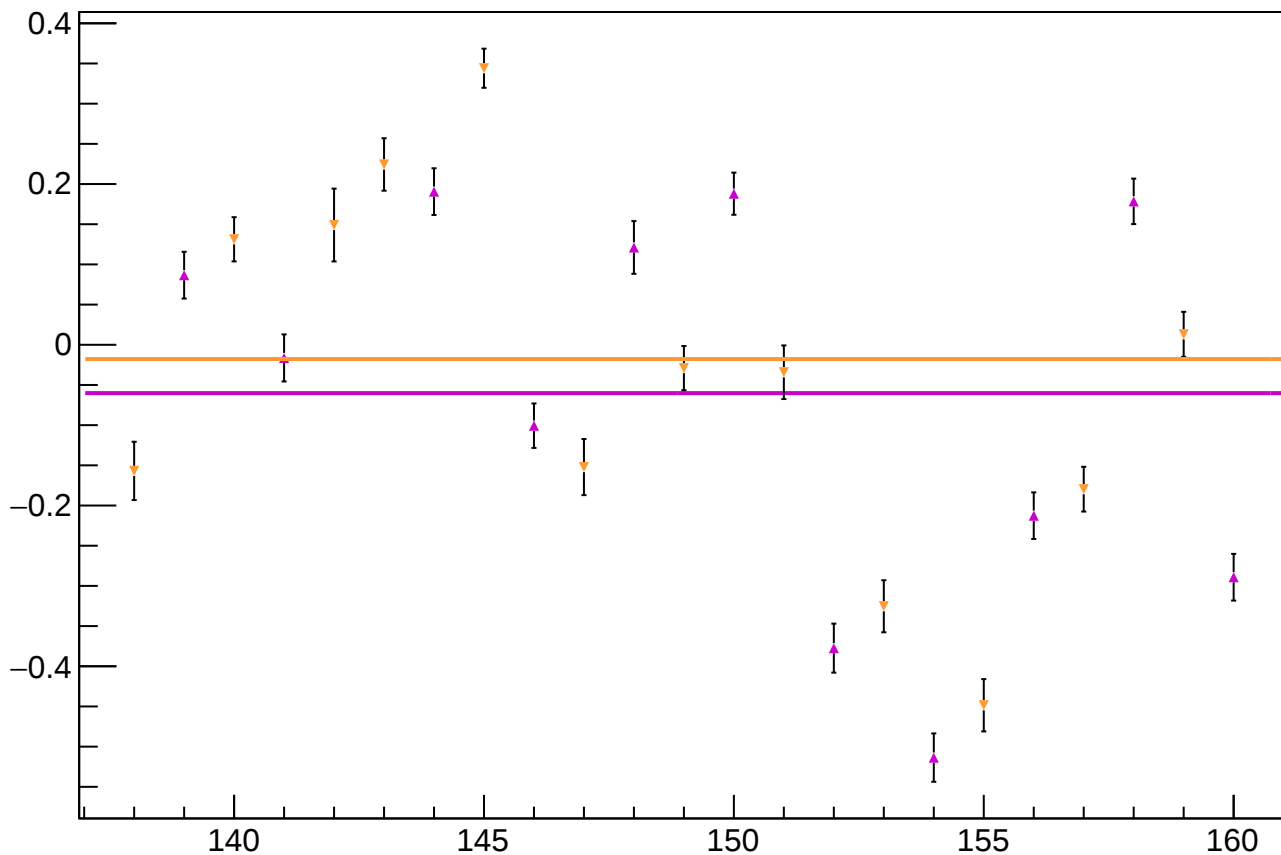
Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

In: 85.112+/-0.185     $\chi^2/\text{NDF}$ :832.4/10

Out: 85.974+/-0.186     $\chi^2/\text{NDF}$ :1054.1/11

All: 85.542+/-0.131     $\chi^2/\text{NDF}$ : 1897.3/22

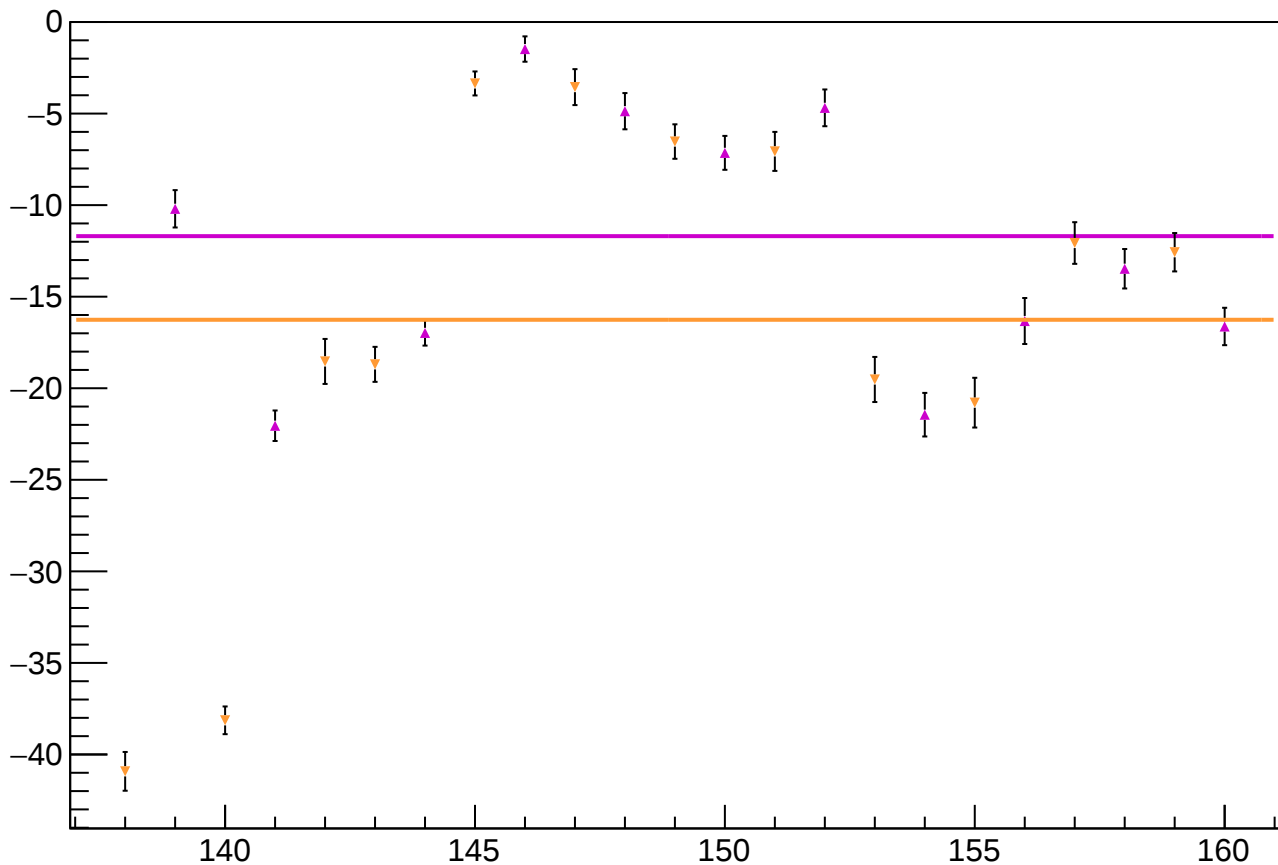
reg\_asym\_sam\_1548\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.018+/-0.009  $\chi^2/\text{NDF}$ : 649.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.060+/-0.009  $\chi^2/\text{NDF}$ : 720.8/10

Left: -0.039+/-0.006  $\chi^2/\text{NDF}$ : 1381.6/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.060+/-0.009  $\chi^2/\text{NDF}$ : 720.8/10  
 Out: -0.018+/-0.009  $\chi^2/\text{NDF}$ : 649.3/11  
 All: -0.039+/-0.006  $\chi^2/\text{NDF}$ : 1381.6/22

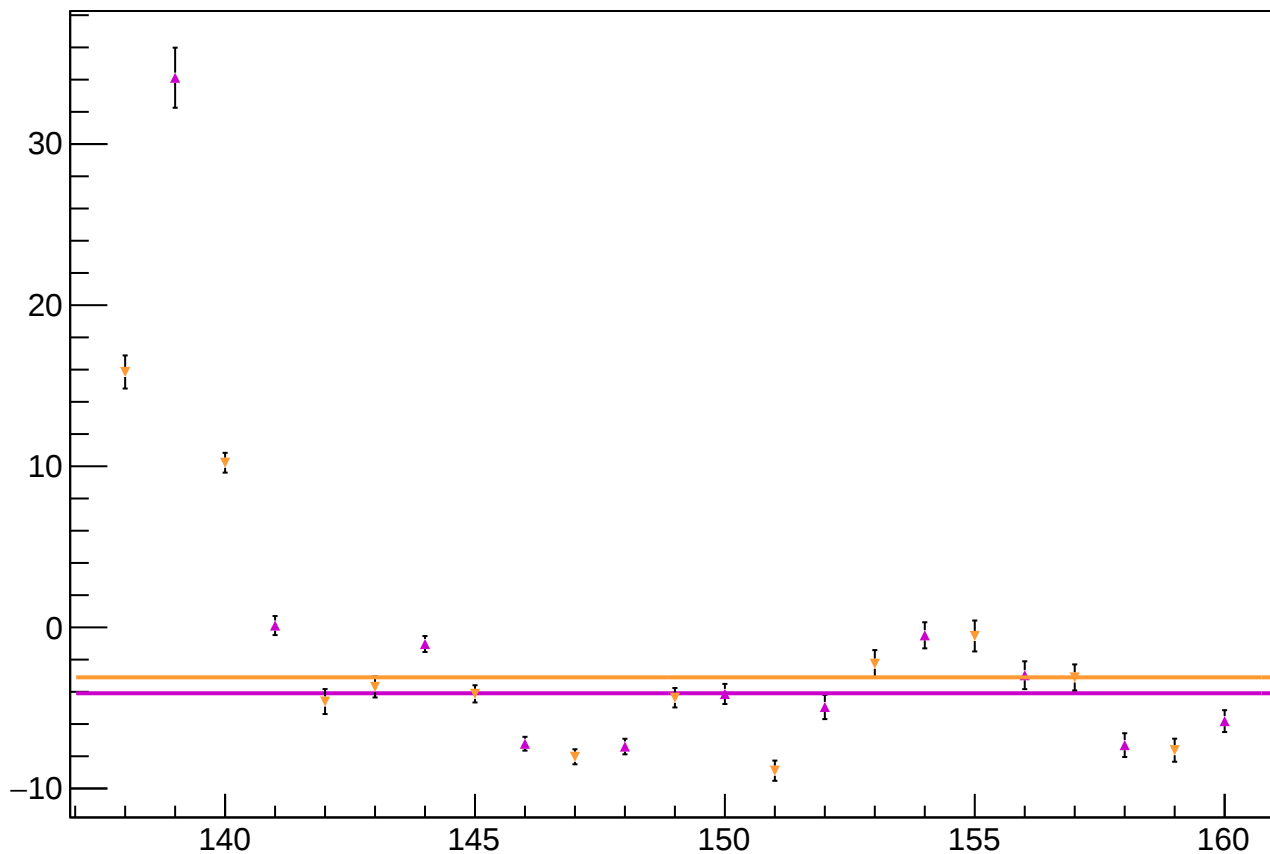
reg\_asym\_sam\_3748\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -16.261+/-0.281  $\chi^2/\text{NDF}$ :2169.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -11.694+/-0.278  $\chi^2/\text{NDF}$ :659.7/10

Left: -13.955+/-0.198  $\chi^2/\text{NDF}$ : 2962.3/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -11.694+/-0.278  $\chi^2/\text{NDF}$ :659.7/10  
 Out: -16.261+/-0.281  $\chi^2/\text{NDF}$ :2169.3/11  
 All: -13.955+/-0.198  $\chi^2/\text{NDF}$ : 2962.3/22

reg\_asym\_sam\_3748\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



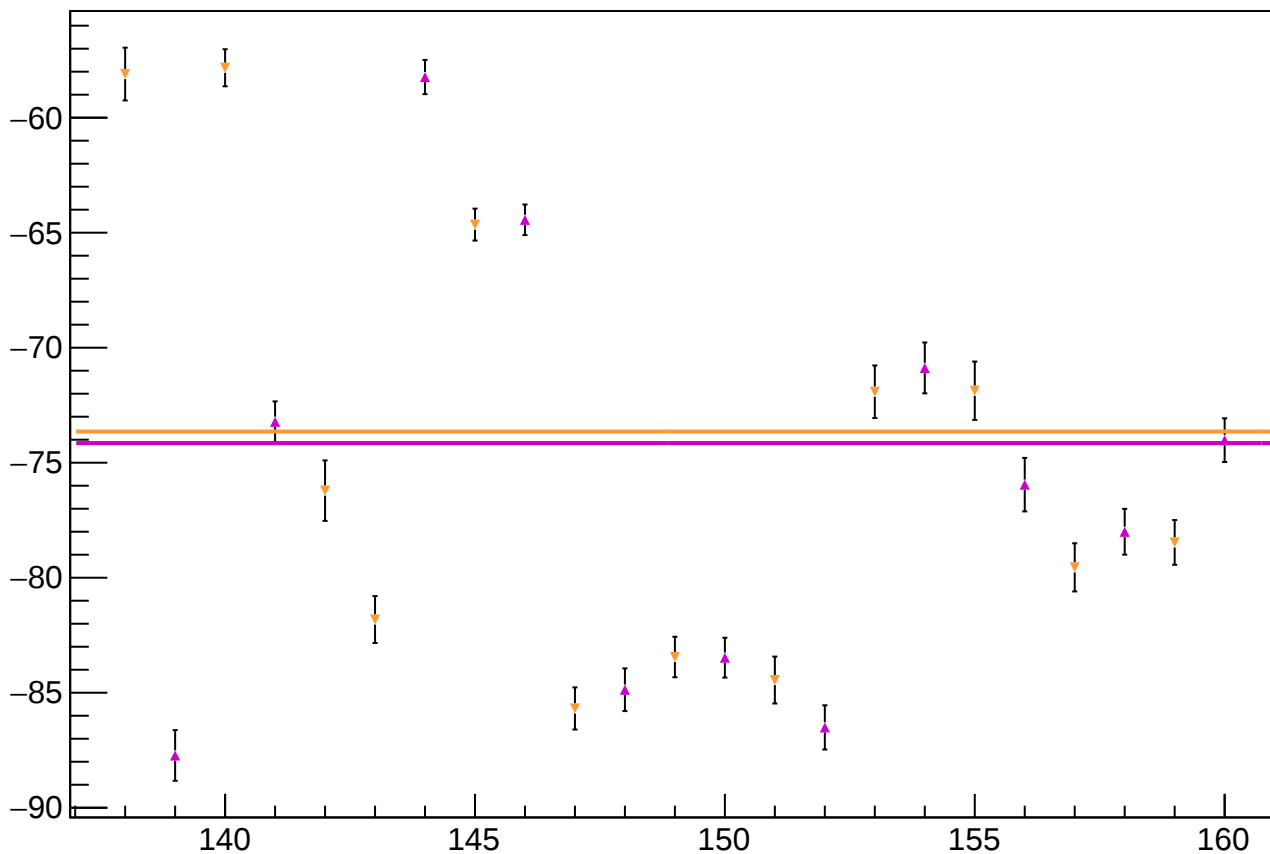
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -3.100+/-0.193  $\chi^2/\text{NDF}$ :1068.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -4.089+/-0.188  $\chi^2/\text{NDF}$ :656.9/10

Left: -3.606+/-0.135  $\chi^2/\text{NDF}$ : 1738.7/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -4.089+/-0.188  $\chi^2/\text{NDF}$ :656.9/10  
 Out: -3.100+/-0.193  $\chi^2/\text{NDF}$ :1068.3/11

All: -3.606+/-0.135  $\chi^2/\text{NDF}$ : 1738.7/22

reg\_asym\_sam\_3748\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -73.643+/-0.280  $\chi^2/\text{NDF}$ :1274.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -74.145+/-0.273  $\chi^2/\text{NDF}$ :1265.6/10

Left: -73.900+/-0.196  $\chi^2/\text{NDF}$ : 2541.5/22

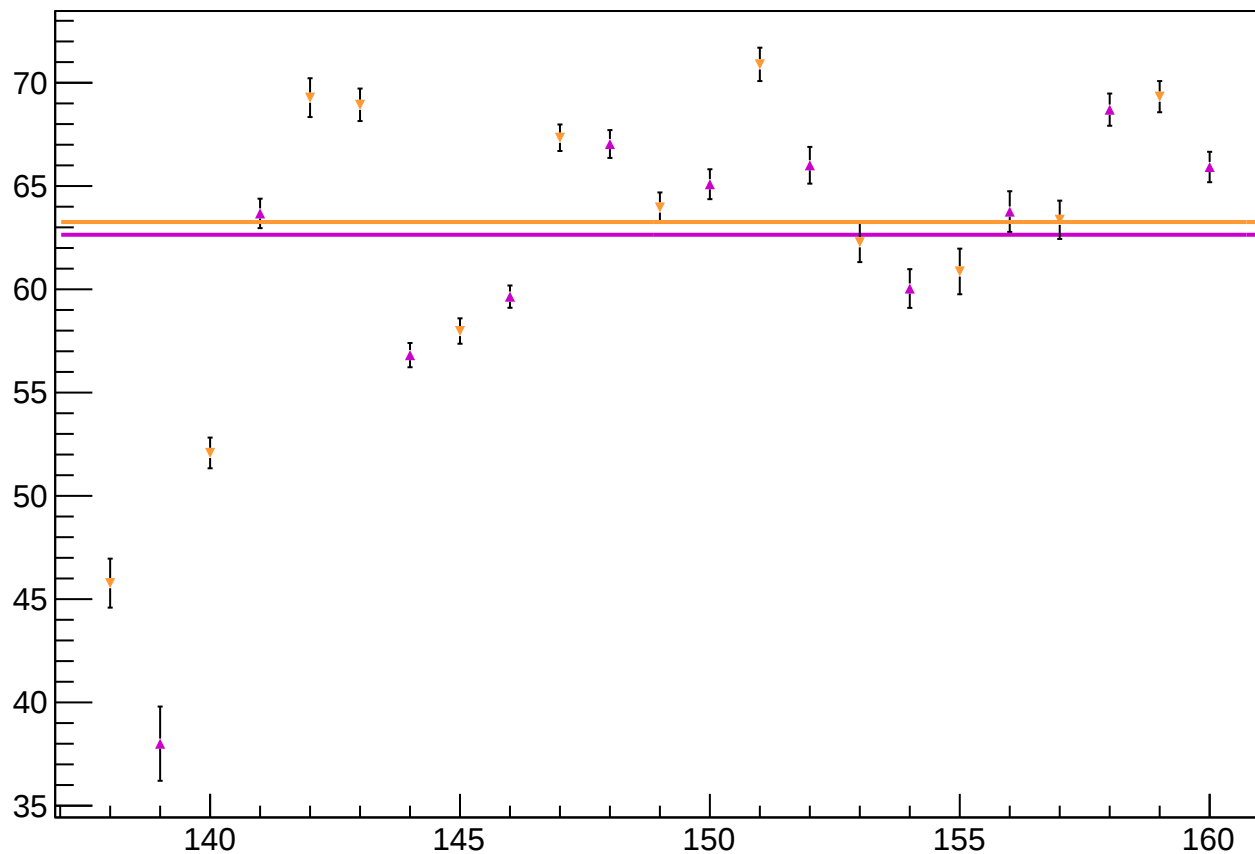
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -74.145+/-0.273  $\chi^2/\text{NDF}$ :1265.6/10

Out: -73.643+/-0.280  $\chi^2/\text{NDF}$ :1274.2/11

All: -73.900+/-0.196  $\chi^2/\text{NDF}$ : 2541.5/22

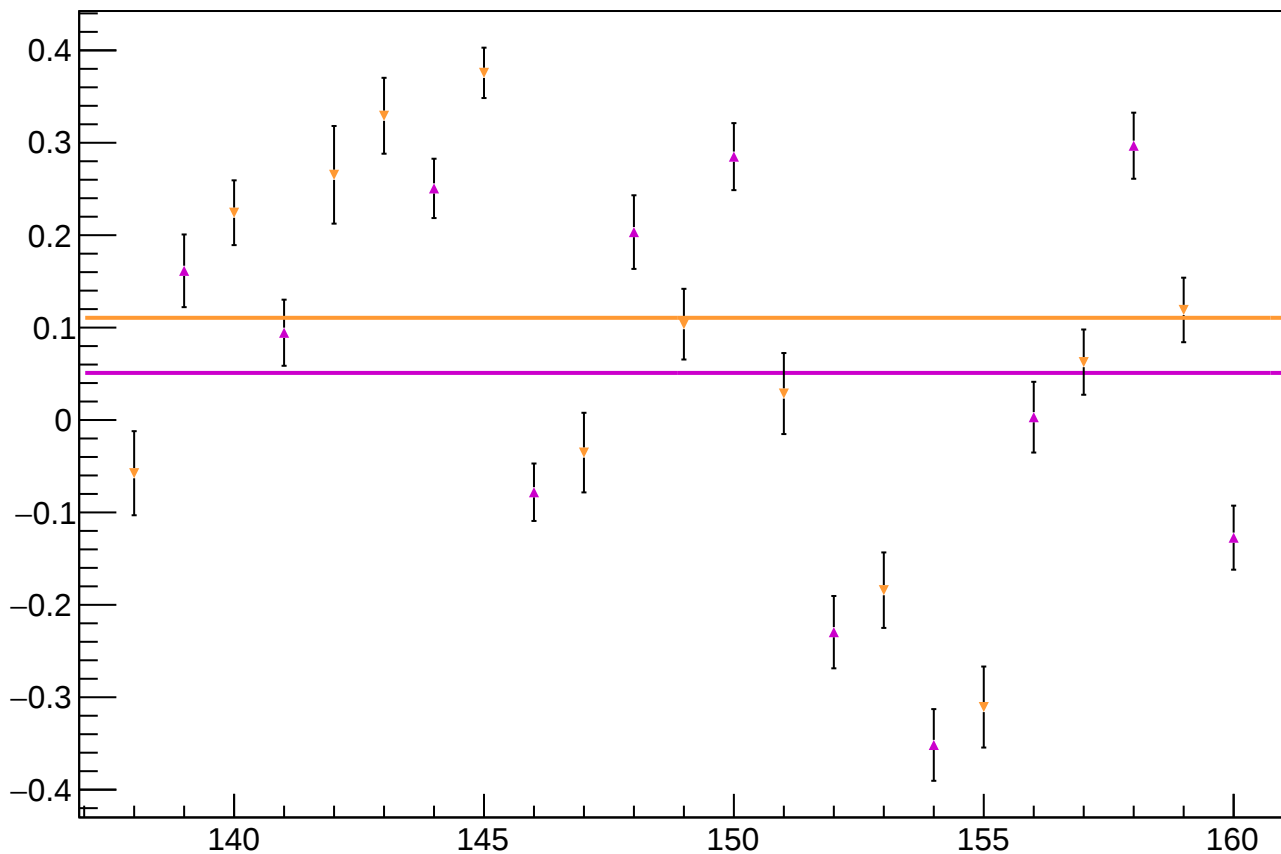
reg\_asym\_sam\_3748\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 63.258+/-0.232  $\chi^2/\text{NDF}$ :811.5/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 62.641+/-0.226  $\chi^2/\text{NDF}$ :477.0/10

Left: 62.941+/-0.162  $\chi^2/\text{NDF}$ : 1292.0/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 62.641+/-0.226  $\chi^2/\text{NDF}$ :477.0/10  
 Out: 63.258+/-0.232  $\chi^2/\text{NDF}$ :811.5/11  
 All: 62.941+/-0.162  $\chi^2/\text{NDF}$ : 1292.0/22

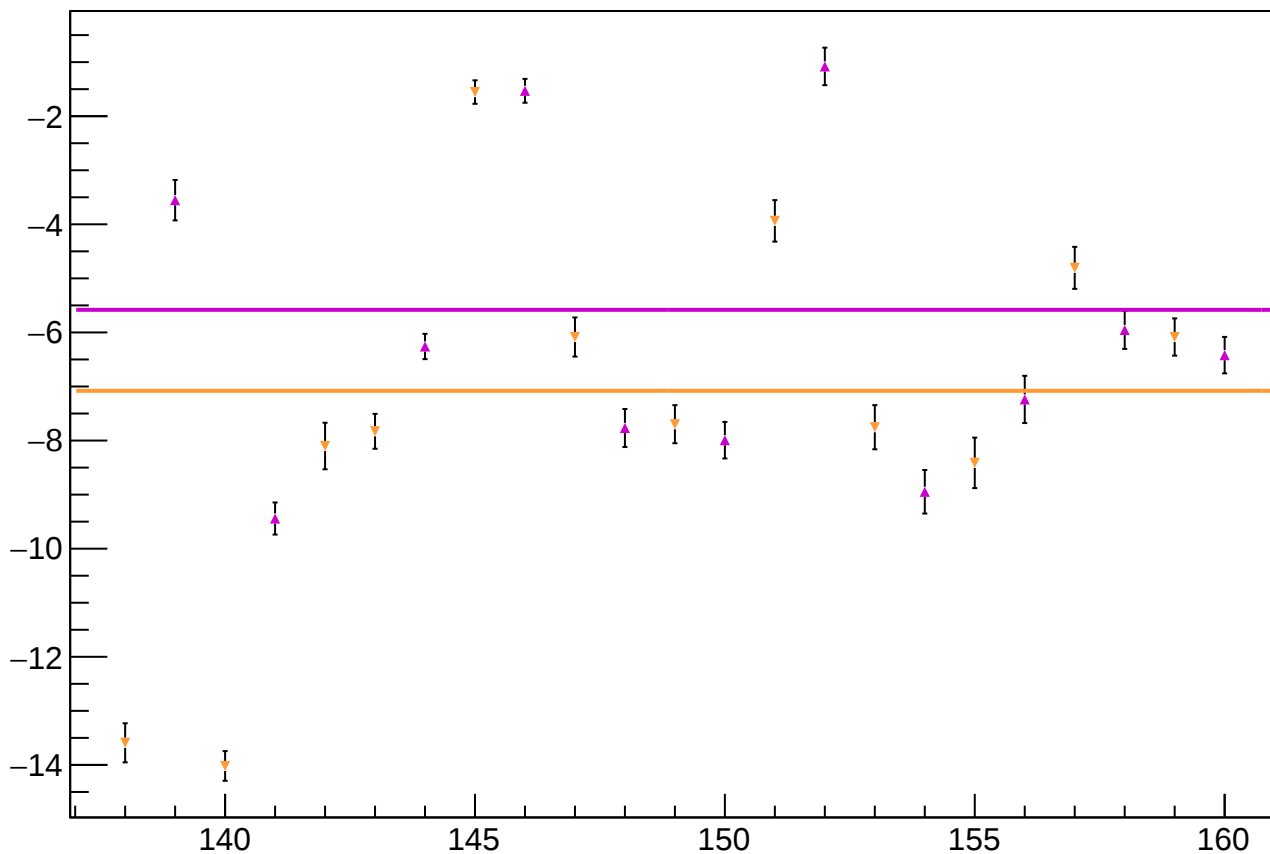
reg\_asym\_sam\_3748\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.111 $\pm$ 0.011  $\chi^2$ /NDF:317.0/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.051 $\pm$ 0.011  $\chi^2$ /NDF:356.0/10

Left: 0.080 $\pm$ 0.008  $\chi^2$ /NDF: 687.7/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.051 $\pm$ 0.011  $\chi^2$ /NDF:356.0/10  
 Out: 0.111 $\pm$ 0.011  $\chi^2$ /NDF:317.0/11  
 All: 0.080 $\pm$ 0.008  $\chi^2$ /NDF: 687.7/22

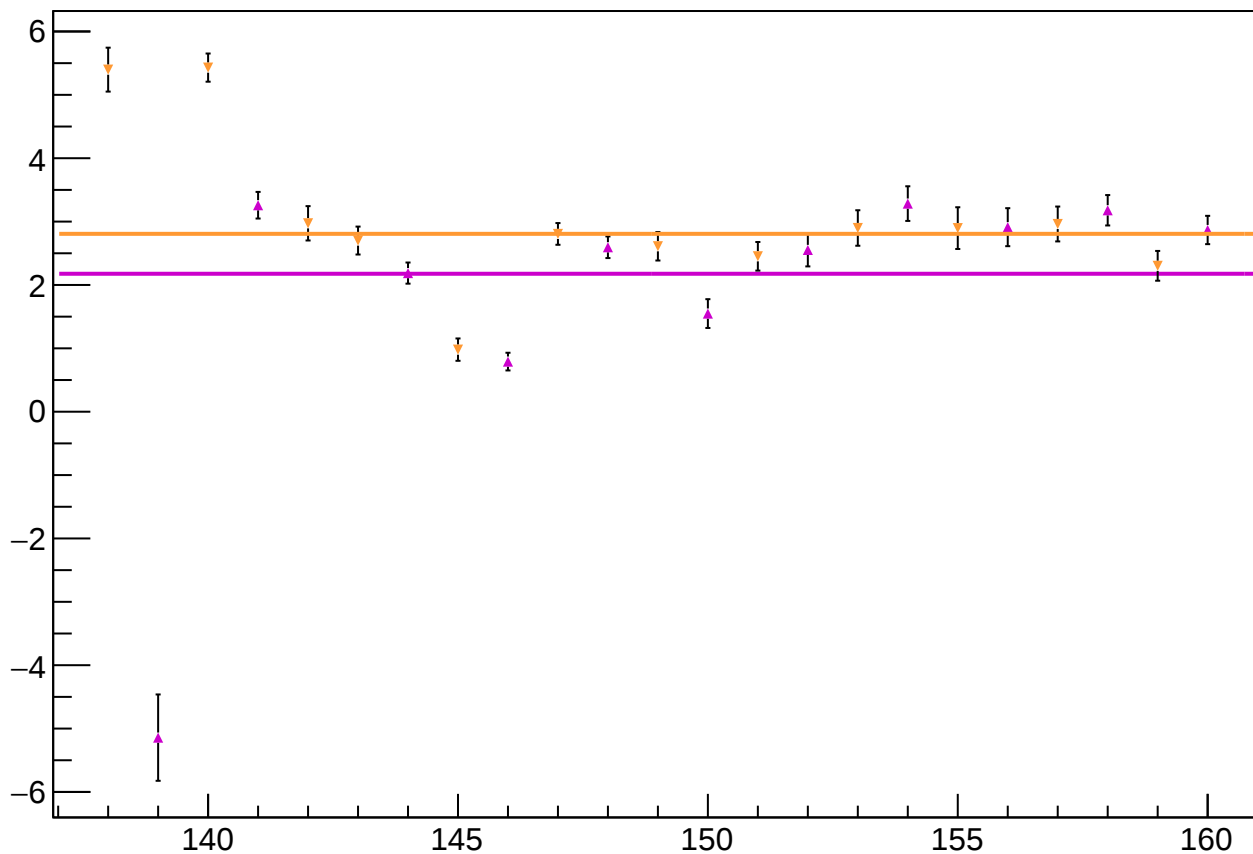
reg\_asym\_sam\_1526\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -7.080+/-0.097  $\chi^2/\text{NDF}$ :1753.6/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -5.582+/-0.095  $\chi^2/\text{NDF}$ :892.9/10

Left: -6.311+/-0.068  $\chi^2/\text{NDF}$ : 2767.6/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -5.582+/-0.095  $\chi^2/\text{NDF}$ :892.9/10  
 Out: -7.080+/-0.097  $\chi^2/\text{NDF}$ :1753.6/11  
 All: -6.311+/-0.068  $\chi^2/\text{NDF}$ : 2767.6/22

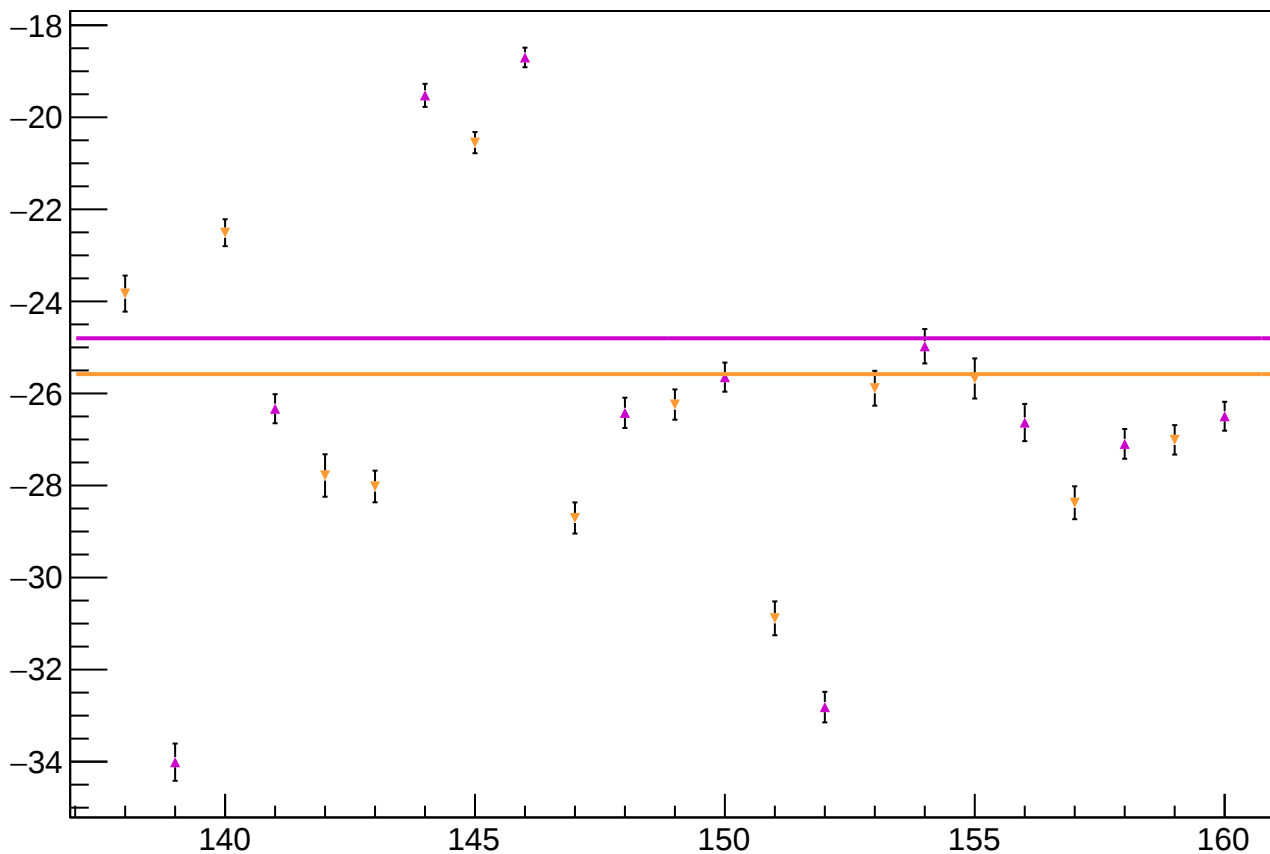
reg\_asym\_sam\_1526\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 2.807±/-0.067  $\chi^2/\text{NDF}$ :311.5/11  
 Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 2.177±/-0.064  $\chi^2/\text{NDF}$ :305.7/10

Left: 2.478±/-0.046  $\chi^2/\text{NDF}$ : 663.1/22  
 Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 2.177±/-0.064  $\chi^2/\text{NDF}$ :305.7/10  
 Out: 2.807±/-0.067  $\chi^2/\text{NDF}$ :311.5/11  
 All: 2.478±/-0.046  $\chi^2/\text{NDF}$ : 663.1/22

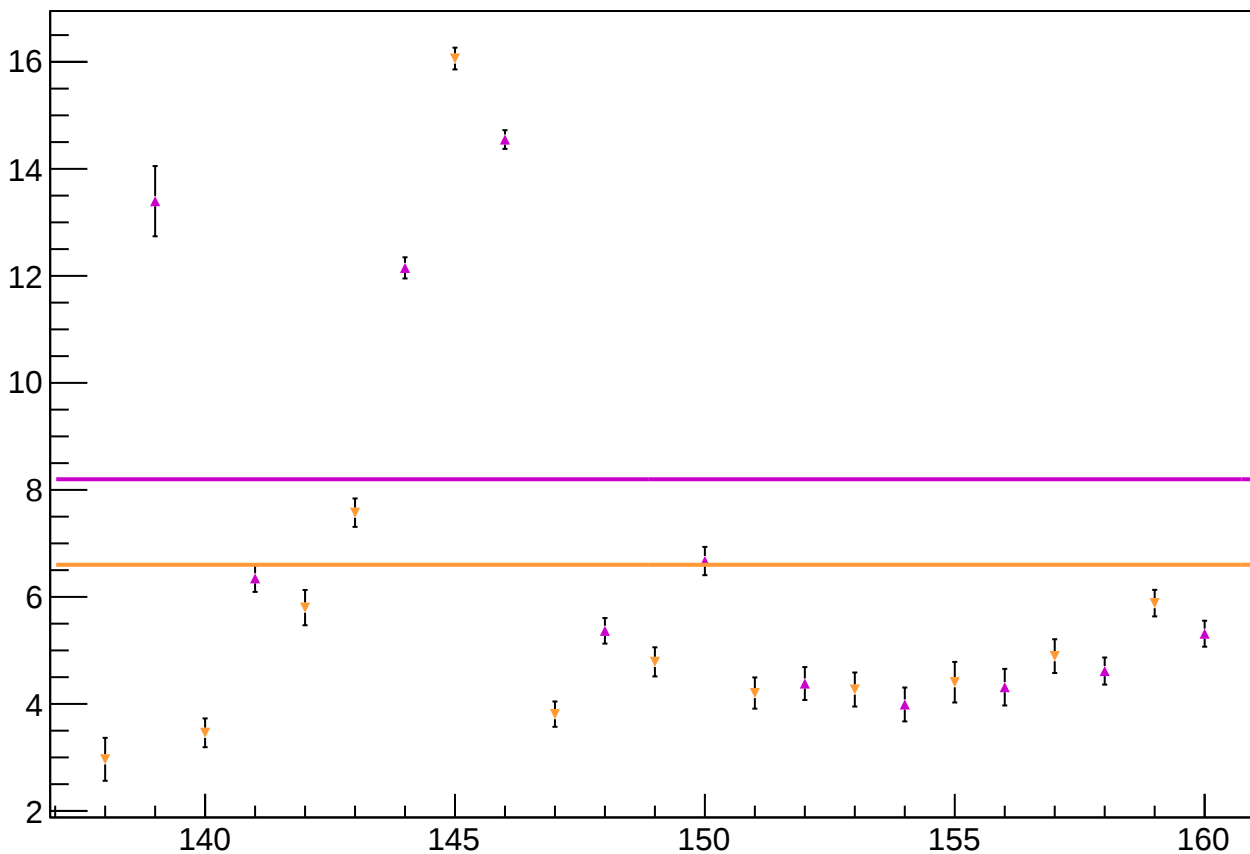
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -25.580+/-0.097  $\chi^2/\text{NDF}$ :1059.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -24.802+/-0.093  $\chi^2/\text{NDF}$ :2523.8/10

Left: -25.173+/-0.067  $\chi^2/\text{NDF}$ : 3617.0/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -24.802+/-0.093  $\chi^2/\text{NDF}$ :2523.8/10  
 Out: -25.580+/-0.097  $\chi^2/\text{NDF}$ :1059.7/11  
 All: -25.173+/-0.067  $\chi^2/\text{NDF}$ : 3617.0/22

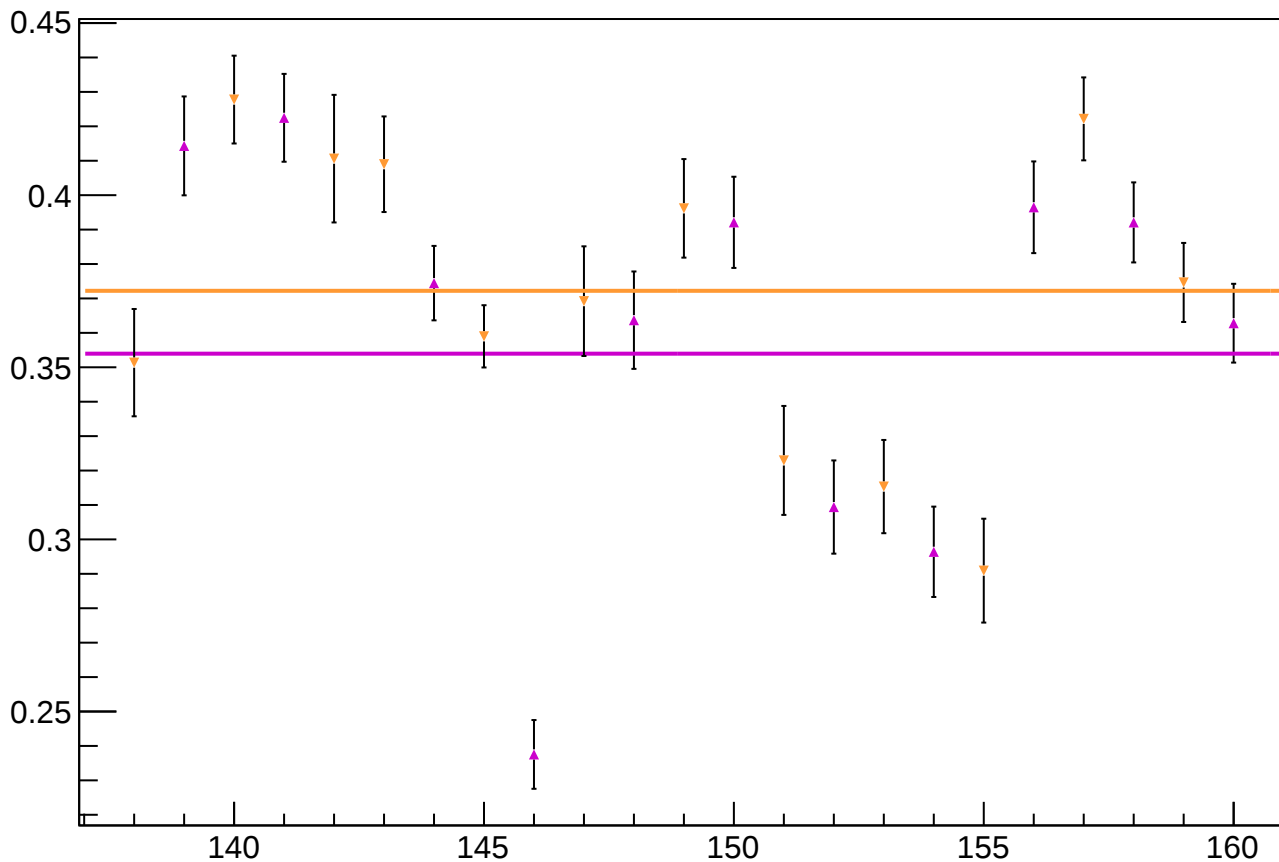
reg\_asym\_sam\_1526\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 6.601+/-0.081  $\chi^2/\text{NDF}$ :2781.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 8.199+/-0.077  $\chi^2/\text{NDF}$ :2809.4/10

Left: 7.439+/-0.056  $\chi^2/\text{NDF}$ : 5796.9/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 8.199+/-0.077  $\chi^2/\text{NDF}$ :2809.4/10  
 Out: 6.601+/-0.081  $\chi^2/\text{NDF}$ :2781.4/11  
 All: 7.439+/-0.056  $\chi^2/\text{NDF}$ : 5796.9/22

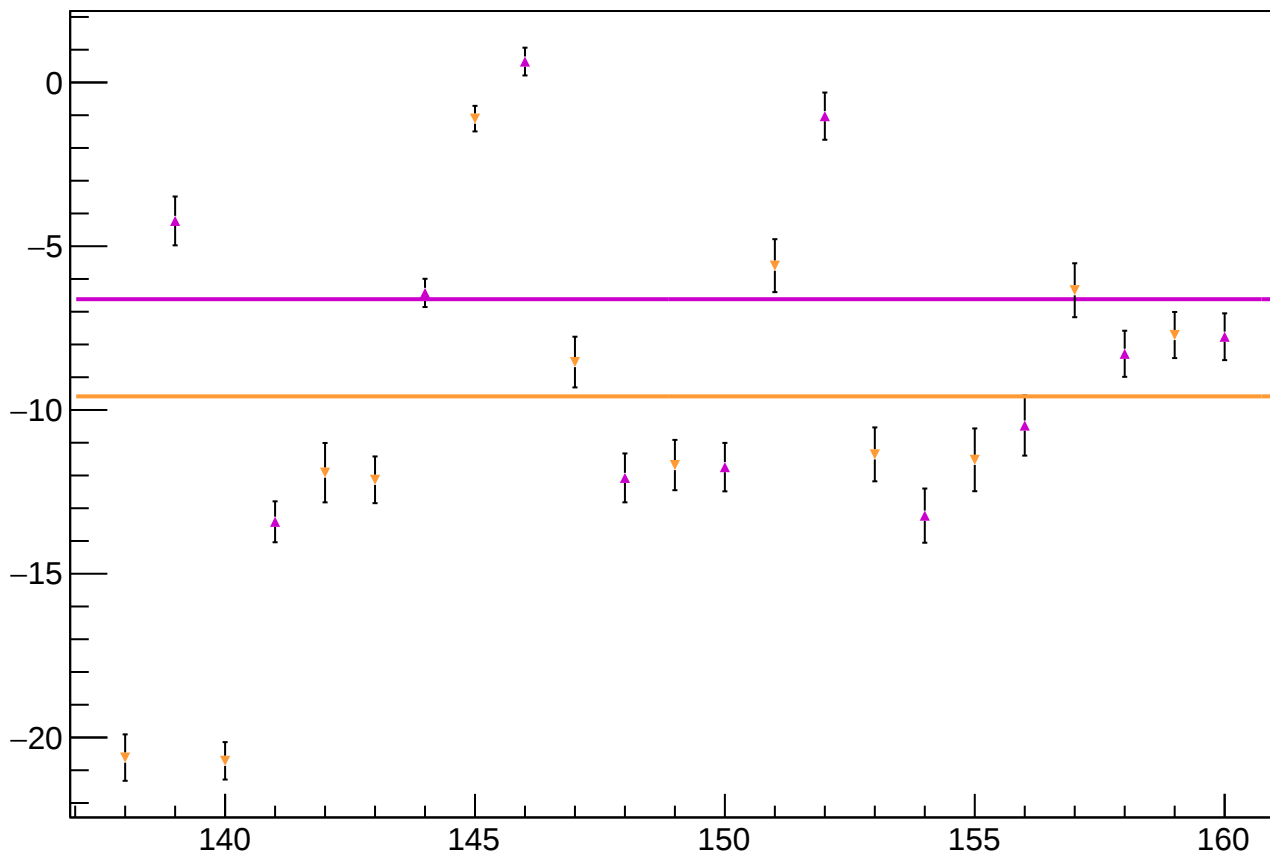
reg\_asym\_sam\_1526\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.372+/-0.004  $\chi^2/\text{NDF}$ :110.6/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.354+/-0.004  $\chi^2/\text{NDF}$ :246.3/10

Left: 0.363+/-0.003  $\chi^2/\text{NDF}$ : 368.6/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.354+/-0.004  $\chi^2/\text{NDF}$ :246.3/10  
 Out: 0.372+/-0.004  $\chi^2/\text{NDF}$ :110.6/11  
 All: 0.363+/-0.003  $\chi^2/\text{NDF}$ : 368.6/22

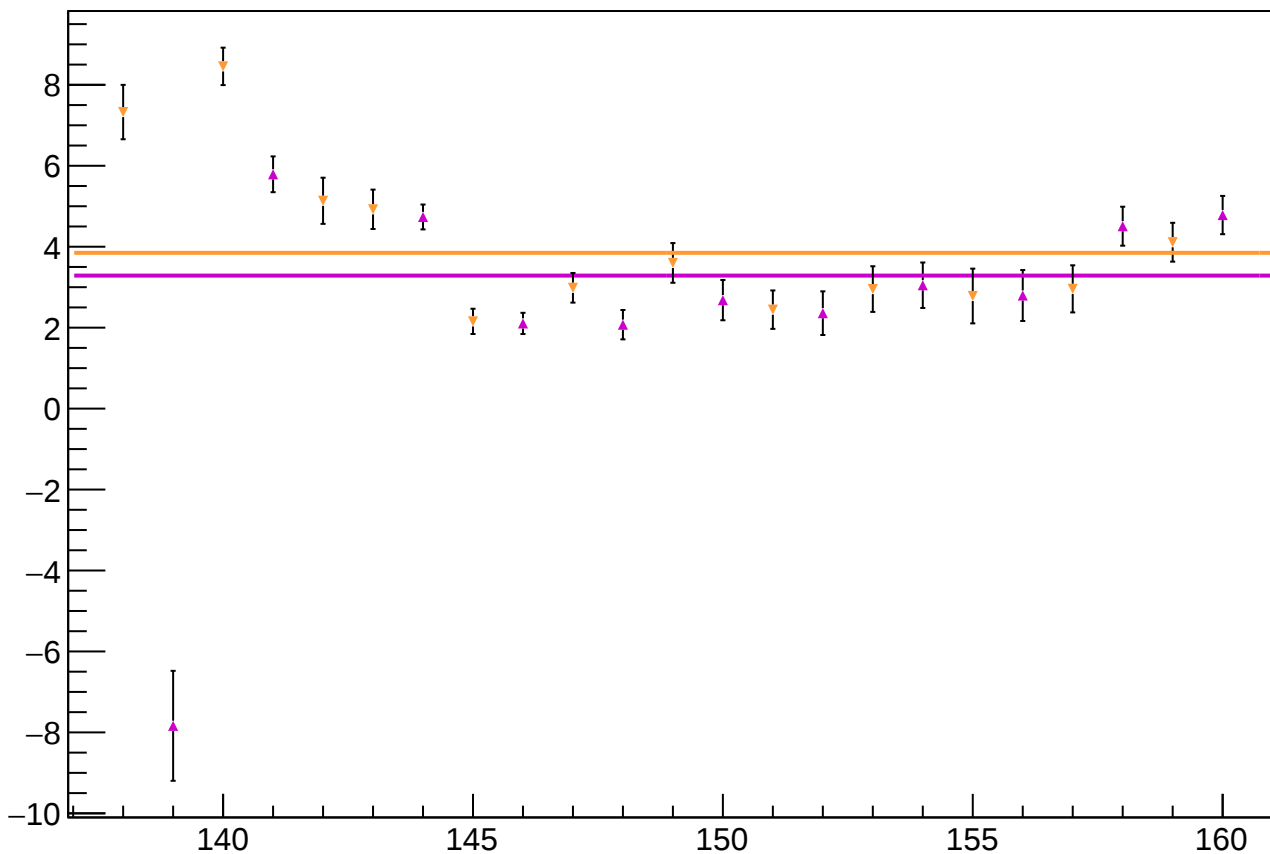
reg\_asym\_sam\_3726\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-9.585 \pm 0.197$   $\chi^2/\text{NDF}: 1178.4/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-6.618 \pm 0.191$   $\chi^2/\text{NDF}: 672.5/10$

Left:  $-8.054 \pm 0.137$   $\chi^2/\text{NDF}: 1968.0/22$   
 Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 In:  $-6.618 \pm 0.191$   $\chi^2/\text{NDF}: 672.5/10$   
 Out:  $-9.585 \pm 0.197$   $\chi^2/\text{NDF}: 1178.4/11$   
 All:  $-8.054 \pm 0.137$   $\chi^2/\text{NDF}: 1968.0/22$

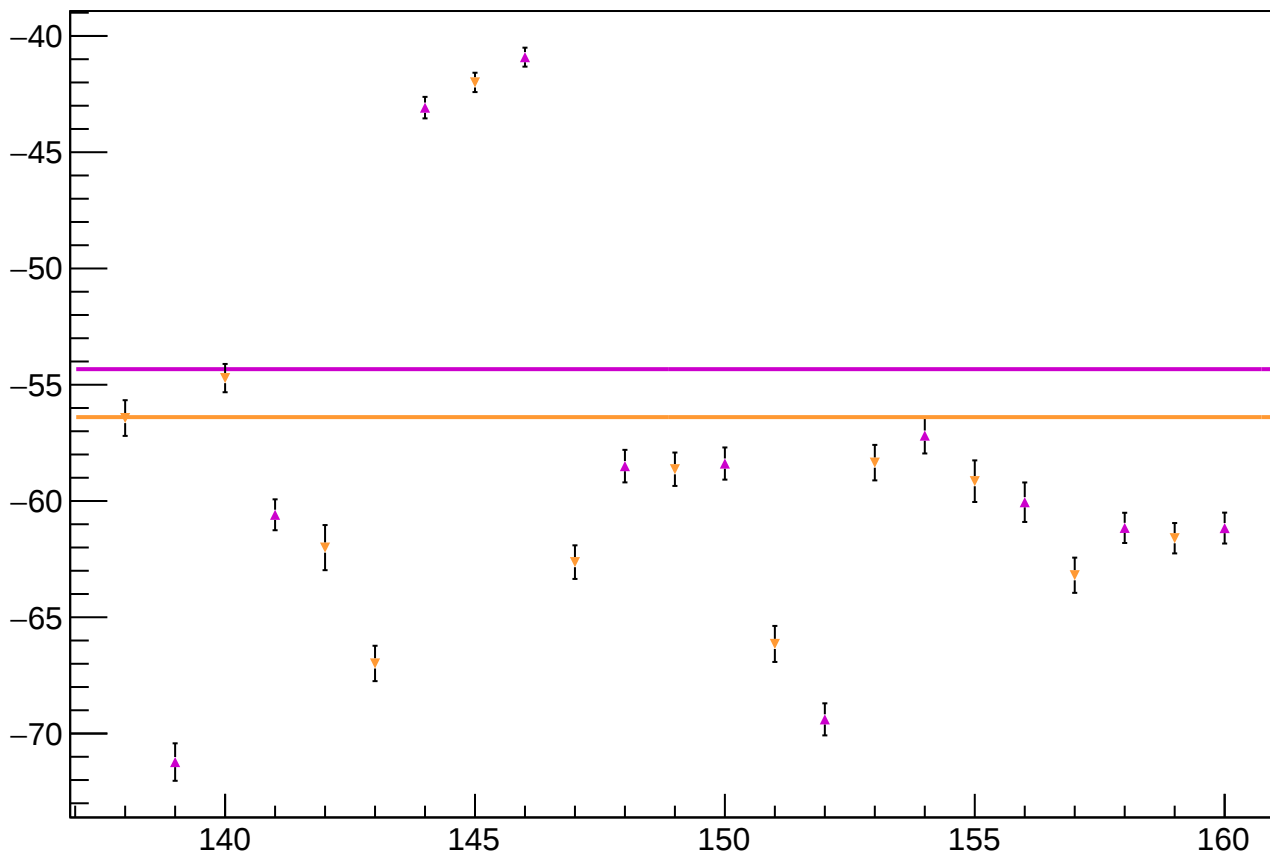
reg\_asym\_sam\_3726\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.849+/-0.137  $\chi^2/\text{NDF}$ :187.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 3.287+/-0.129  $\chi^2/\text{NDF}$ :174.5/10

Left: 3.550+/-0.094  $\chi^2/\text{NDF}$ : 371.2/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 3.287+/-0.129  $\chi^2/\text{NDF}$ :174.5/10  
 Out: 3.849+/-0.137  $\chi^2/\text{NDF}$ :187.7/11  
 All: 3.550+/-0.094  $\chi^2/\text{NDF}$ : 371.2/22

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -56.392+/-0.198  $\chi^2/\text{NDF}$ :1836.1/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -54.330+/-0.188  $\chi^2/\text{NDF}$ :3024.8/10

Left: -55.306+/-0.136  $\chi^2/\text{NDF}$ : 4918.1/22

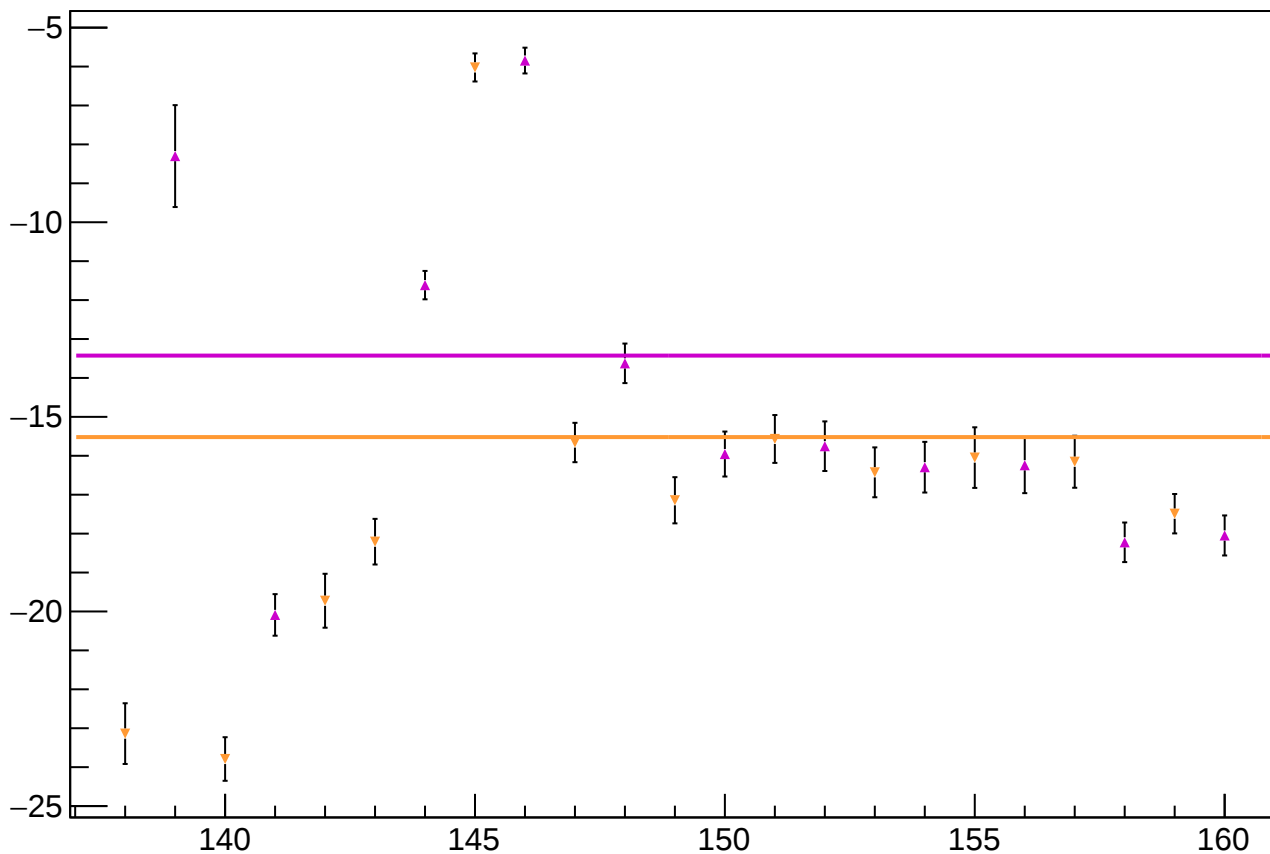
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -54.330+/-0.188  $\chi^2/\text{NDF}$ :3024.8/10

Out: -56.392+/-0.198  $\chi^2/\text{NDF}$ :1836.1/11

All: -55.306+/-0.136  $\chi^2/\text{NDF}$ : 4918.1/22

reg\_asym\_sam\_3726\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left Out:  $-15.520 \pm 0.164$   $\chi^2/\text{NDF}: 1090.1/11$   
 Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$   
 Left In:  $-13.426 \pm 0.154$   $\chi^2/\text{NDF}: 956.9/10$

Left:  $-14.408 \pm 0.112$   $\chi^2/\text{NDF}: 2133.4/22$

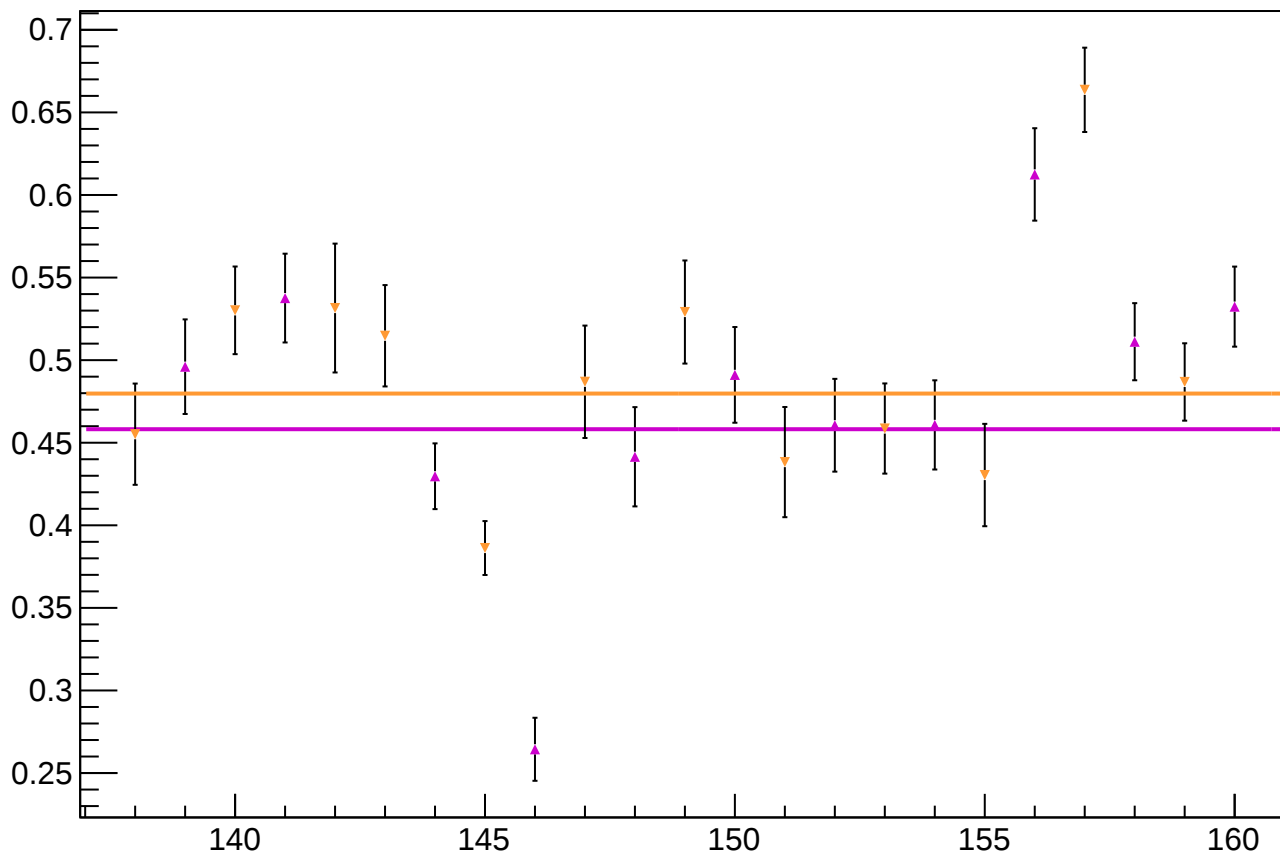
Right:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

In:  $-13.426 \pm 0.154$   $\chi^2/\text{NDF}: 956.9/10$

Out:  $-15.520 \pm 0.164$   $\chi^2/\text{NDF}: 1090.1/11$

All:  $-14.408 \pm 0.112$   $\chi^2/\text{NDF}: 2133.4/22$

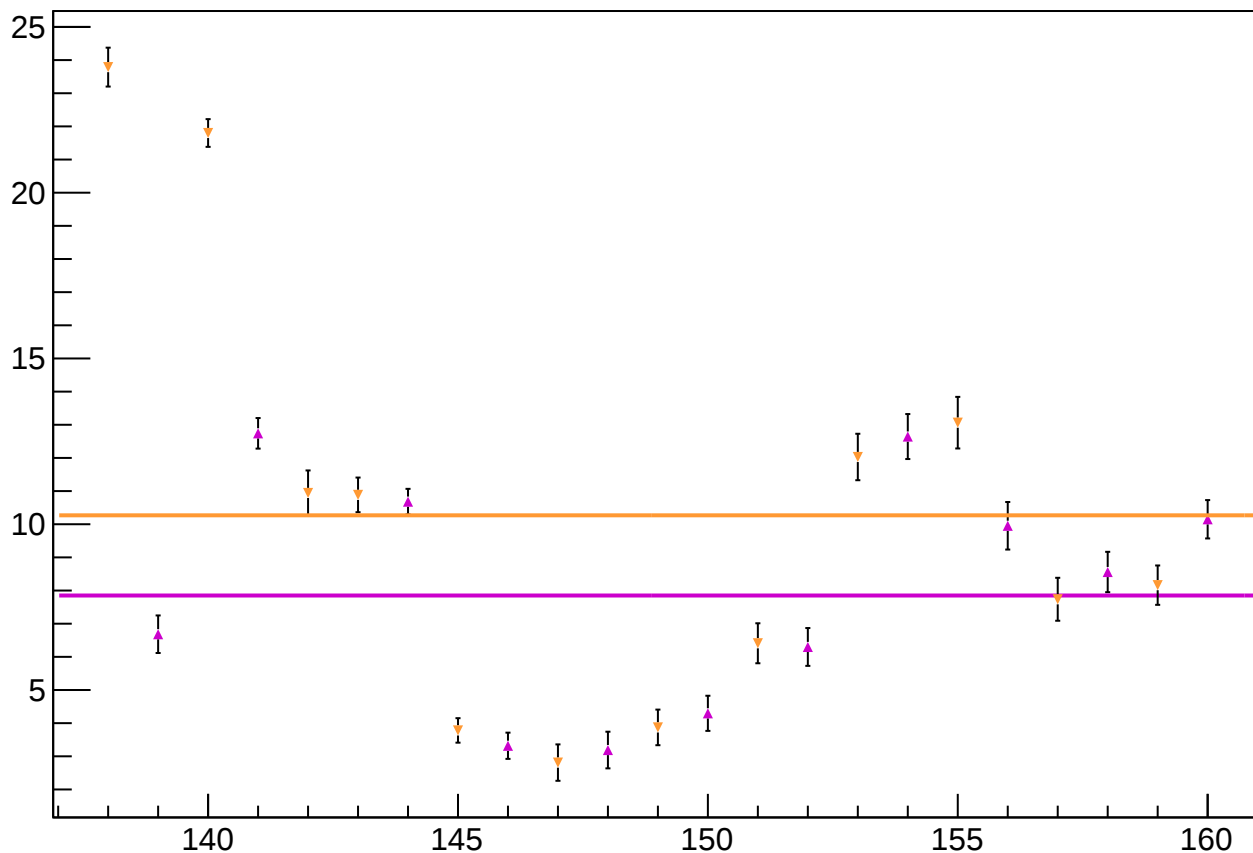
reg\_asym\_sam\_3726\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.480 $\pm$ 0.008  $\chi^2$ /NDF:99.4/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.458 $\pm$ 0.008  $\chi^2$ /NDF:162.2/10

Left: 0.469 $\pm$ 0.005  $\chi^2$ /NDF: 265.5/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.458 $\pm$ 0.008  $\chi^2$ /NDF:162.2/10  
 Out: 0.480 $\pm$ 0.008  $\chi^2$ /NDF:99.4/11  
 All: 0.469 $\pm$ 0.005  $\chi^2$ /NDF: 265.5/22

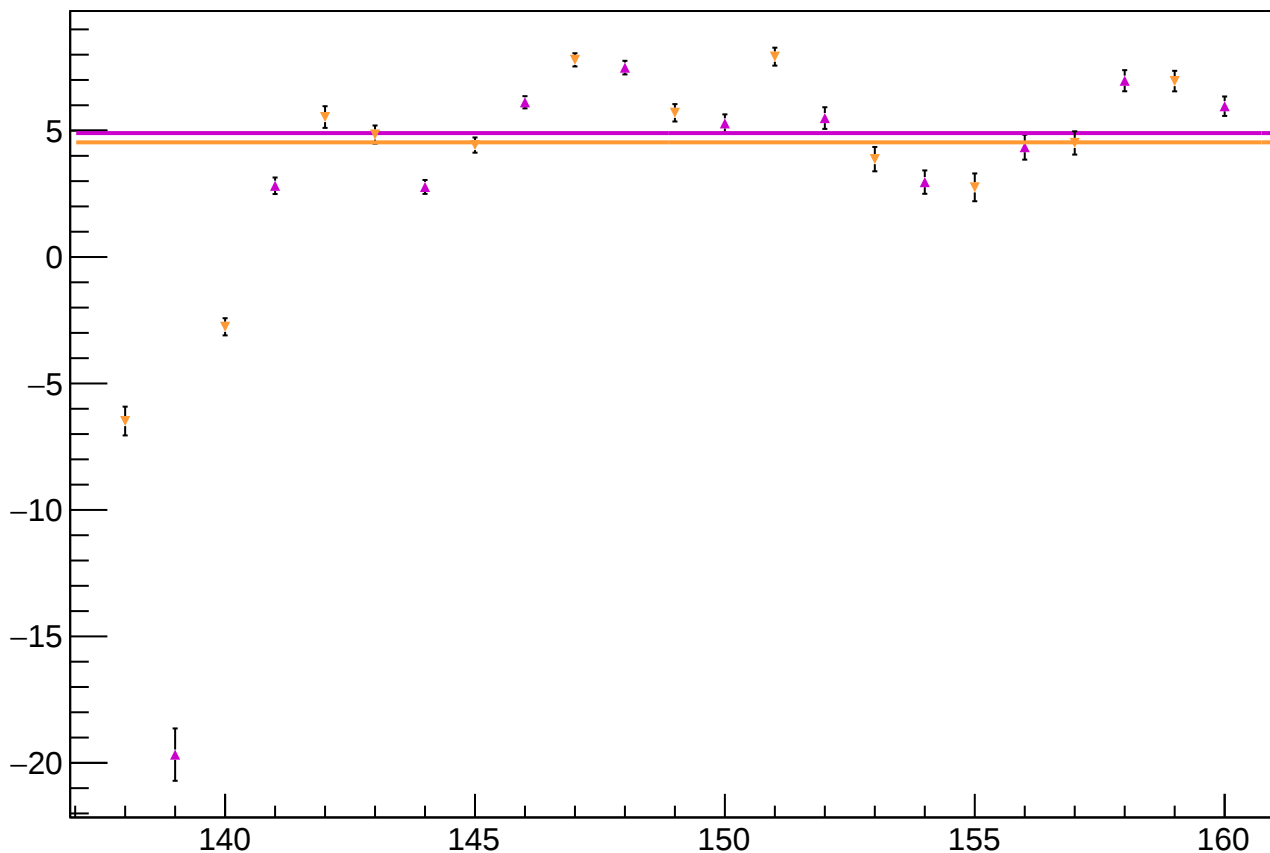
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 10.269+/-0.158  $\chi^2/\text{NDF}$ :2016.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 7.850+/-0.157  $\chi^2/\text{NDF}$ :500.9/10

Left: 9.054+/-0.111  $\chi^2/\text{NDF}$ : 2635.5/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 7.850+/-0.157  $\chi^2/\text{NDF}$ :500.9/10  
 Out: 10.269+/-0.158  $\chi^2/\text{NDF}$ :2016.3/11  
 All: 9.054+/-0.111  $\chi^2/\text{NDF}$ : 2635.5/22

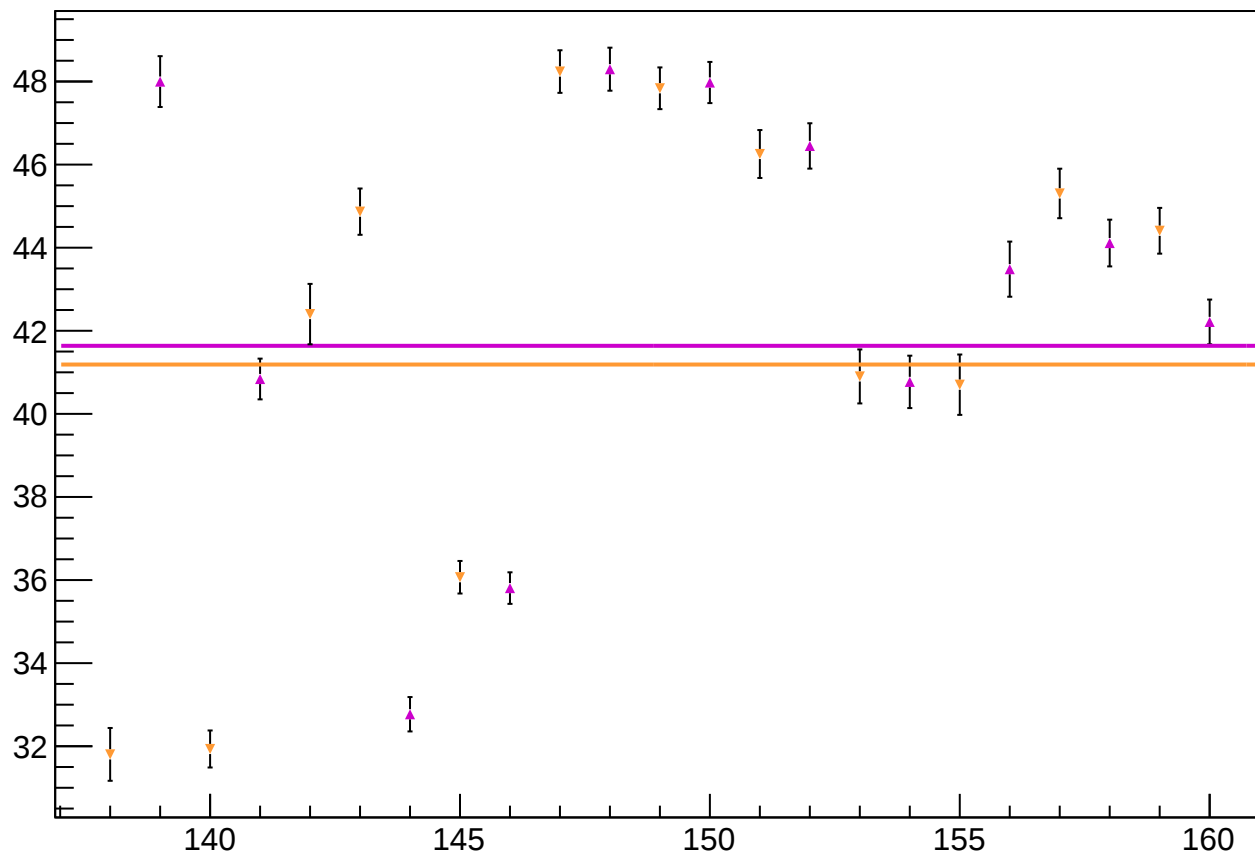
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 4.534+/-0.108  $\chi^2/\text{NDF}$ :1149.5/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 4.900+/-0.106  $\chi^2/\text{NDF}$ :835.8/10

Left: 4.720+/-0.076  $\chi^2/\text{NDF}$ : 1991.1/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 4.900+/-0.106  $\chi^2/\text{NDF}$ :835.8/10  
 Out: 4.534+/-0.108  $\chi^2/\text{NDF}$ :1149.5/11  
 All: 4.720+/-0.076  $\chi^2/\text{NDF}$ : 1991.1/22

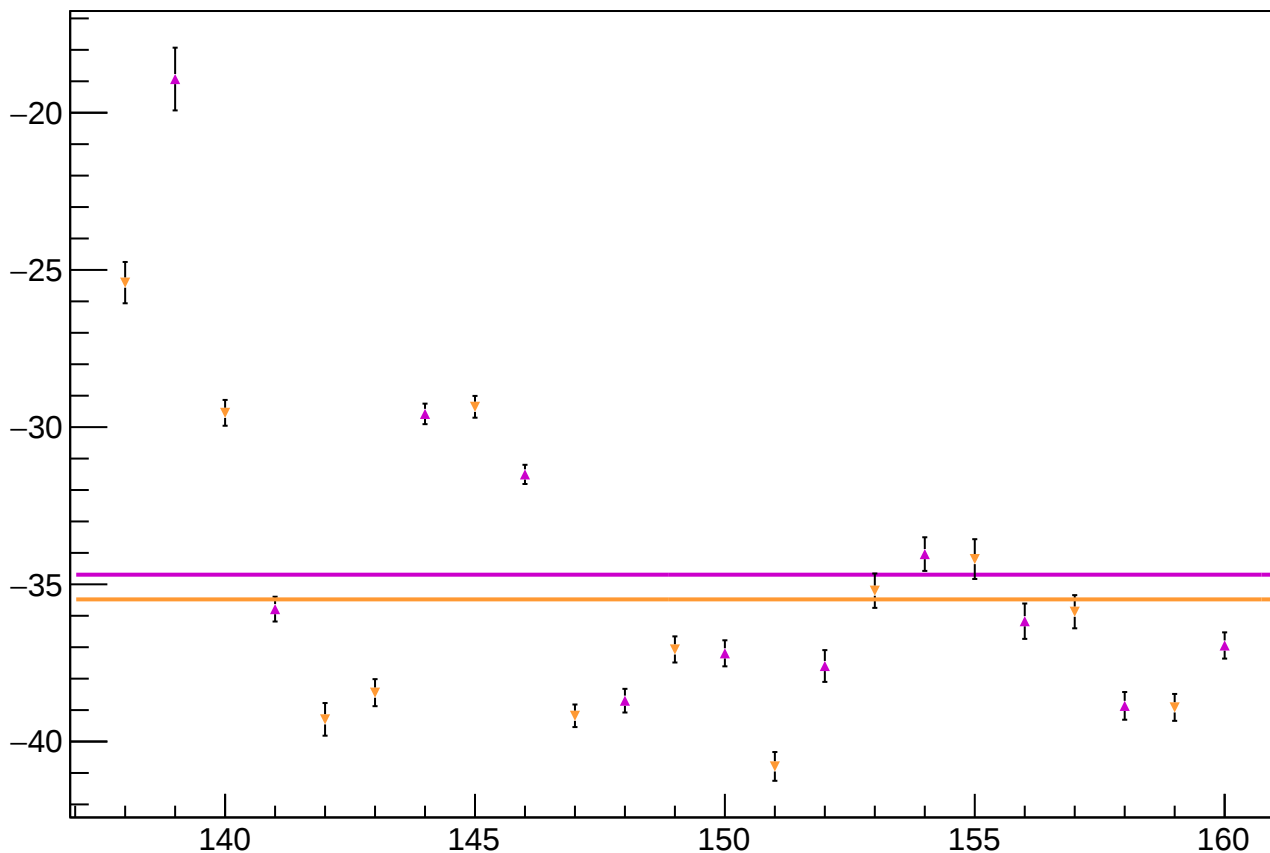
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 41.188+/-0.158     $\chi^2/\text{NDF}$ :1390.9/11  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 41.638+/-0.154     $\chi^2/\text{NDF}$ :1242.4/10

Left: 41.418+/-0.110     $\chi^2/\text{NDF}$ : 2637.5/22  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 41.638+/-0.154     $\chi^2/\text{NDF}$ :1242.4/10  
 Out: 41.188+/-0.158     $\chi^2/\text{NDF}$ :1390.9/11  
 All: 41.418+/-0.110     $\chi^2/\text{NDF}$ : 2637.5/22

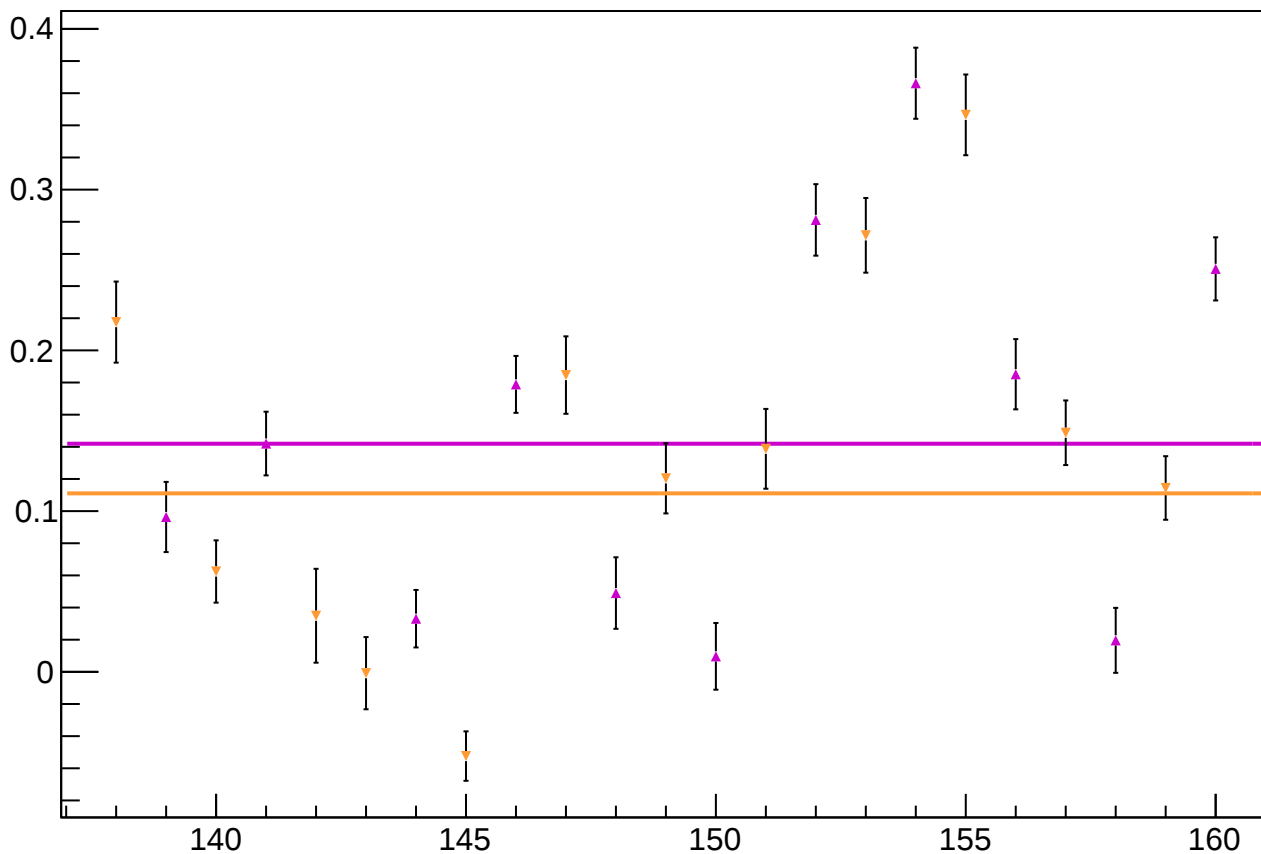
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -35.479+/-0.130  $\chi^2/\text{NDF}$ :1183.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -34.693+/-0.127  $\chi^2/\text{NDF}$ :922.2/10

Left: -35.076+/-0.091  $\chi^2/\text{NDF}$ : 2124.2/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -34.693+/-0.127  $\chi^2/\text{NDF}$ :922.2/10  
 Out: -35.479+/-0.130  $\chi^2/\text{NDF}$ :1183.4/11  
 All: -35.076+/-0.091  $\chi^2/\text{NDF}$ : 2124.2/22

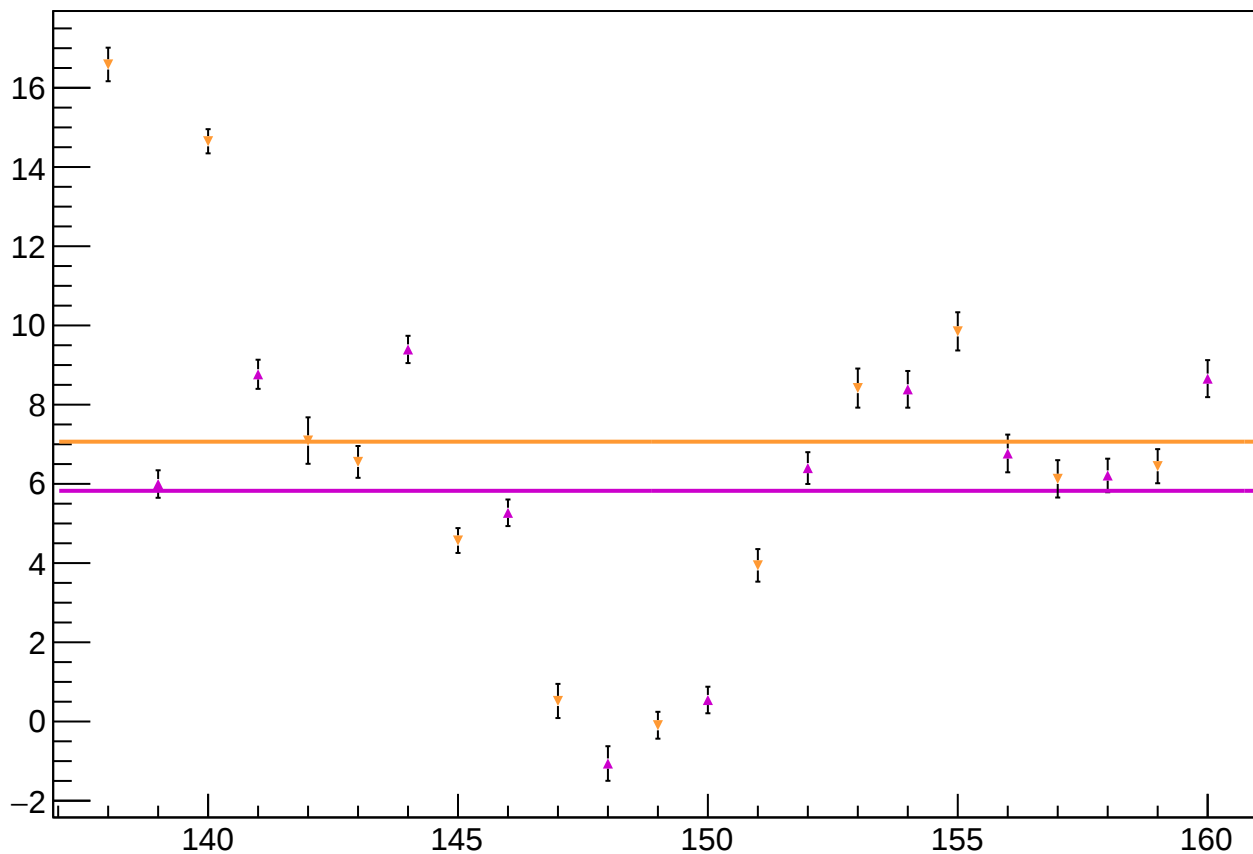
reg\_asym\_sam\_15\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 0.111+/-0.006     $\chi^2/\text{NDF}$ :318.7/11  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 0.142+/-0.006     $\chi^2/\text{NDF}$ :317.1/10

Left: 0.127+/-0.004     $\chi^2/\text{NDF}$ : 648.2/22  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 0.142+/-0.006     $\chi^2/\text{NDF}$ :317.1/10  
 Out: 0.111+/-0.006     $\chi^2/\text{NDF}$ :318.7/11  
 All: 0.127+/-0.004     $\chi^2/\text{NDF}$ : 648.2/22

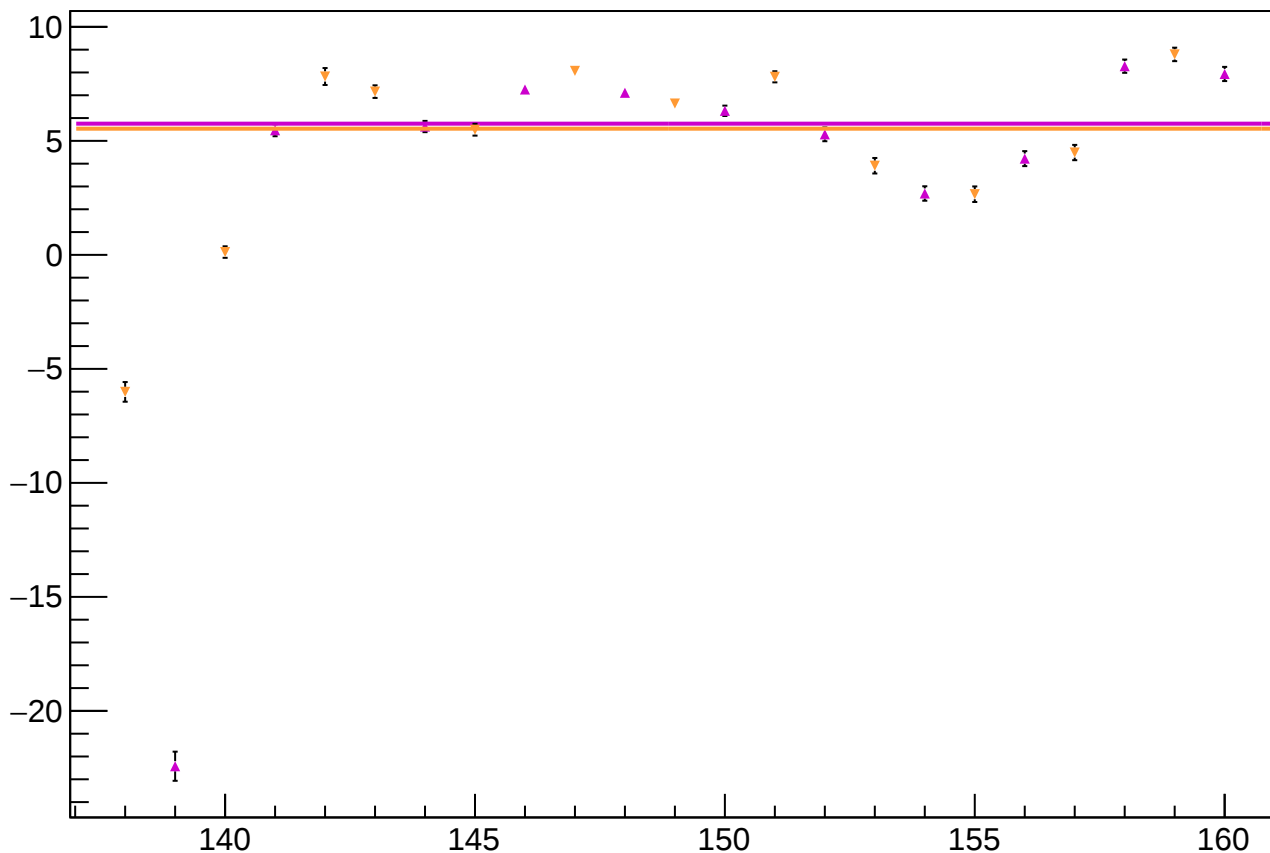
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 7.066+/-0.116     $\chi^2/\text{NDF}$ :1968.5/11  
 Right Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 5.825+/-0.117     $\chi^2/\text{NDF}$ :745.6/10

Left: 6.450+/-0.083     $\chi^2/\text{NDF}$ : 2770.4/22  
 Right: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0  
 In: 5.825+/-0.117     $\chi^2/\text{NDF}$ :745.6/10  
 Out: 7.066+/-0.116     $\chi^2/\text{NDF}$ :1968.5/11  
 All: 6.450+/-0.083     $\chi^2/\text{NDF}$ : 2770.4/22

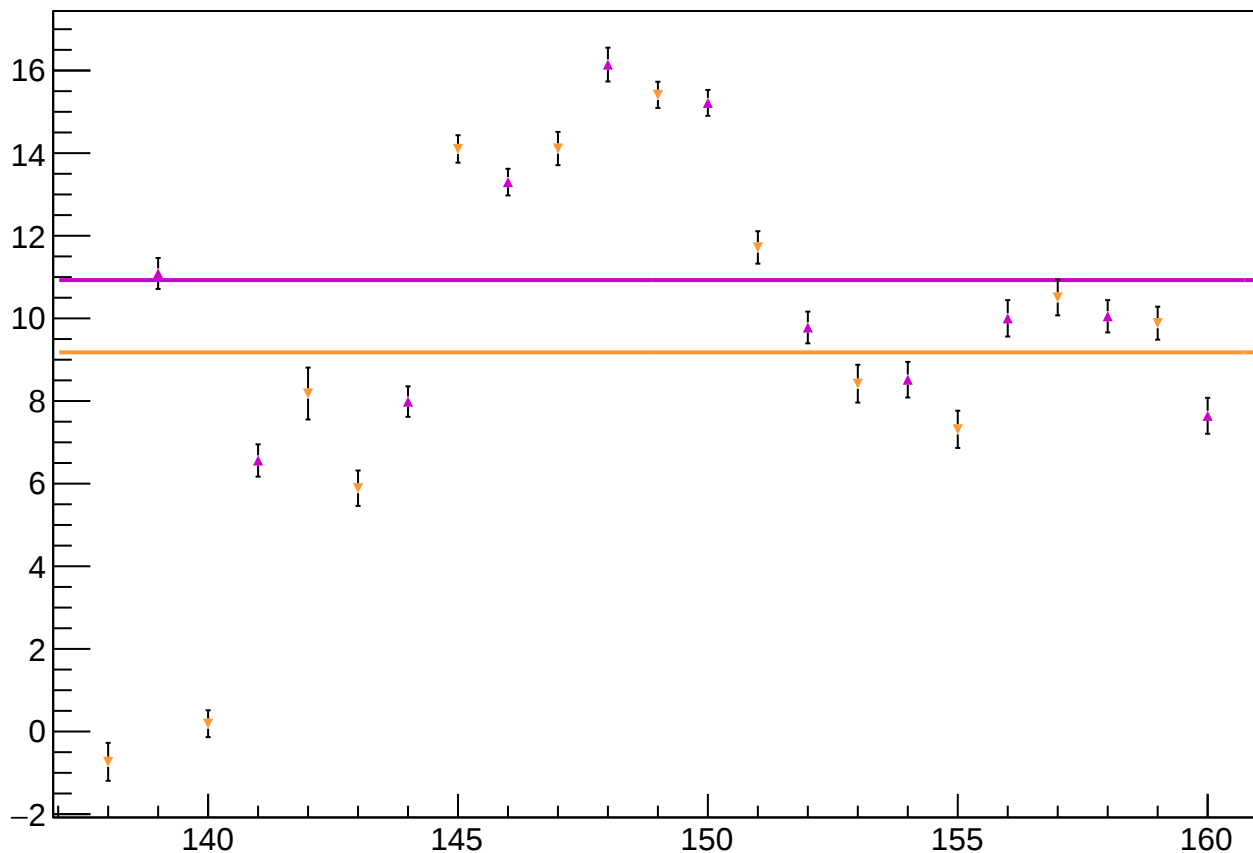
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.534 $\pm$ 0.080  $\chi^2$ /NDF:1733.3/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 5.755 $\pm$ 0.082  $\chi^2$ /NDF:2283.3/10

Left: 5.642 $\pm$ 0.057  $\chi^2$ /NDF: 4020.3/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 5.755 $\pm$ 0.082  $\chi^2$ /NDF:2283.3/10  
 Out: 5.534 $\pm$ 0.080  $\chi^2$ /NDF:1733.3/11  
 All: 5.642 $\pm$ 0.057  $\chi^2$ /NDF: 4020.3/22

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 9.178 $\pm$ 0.115  $\chi^2$ /NDF:2121.5/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 10.928 $\pm$ 0.115  $\chi^2$ /NDF:698.9/10

Left: 10.057 $\pm$ 0.081  $\chi^2$ /NDF: 2936.0/22

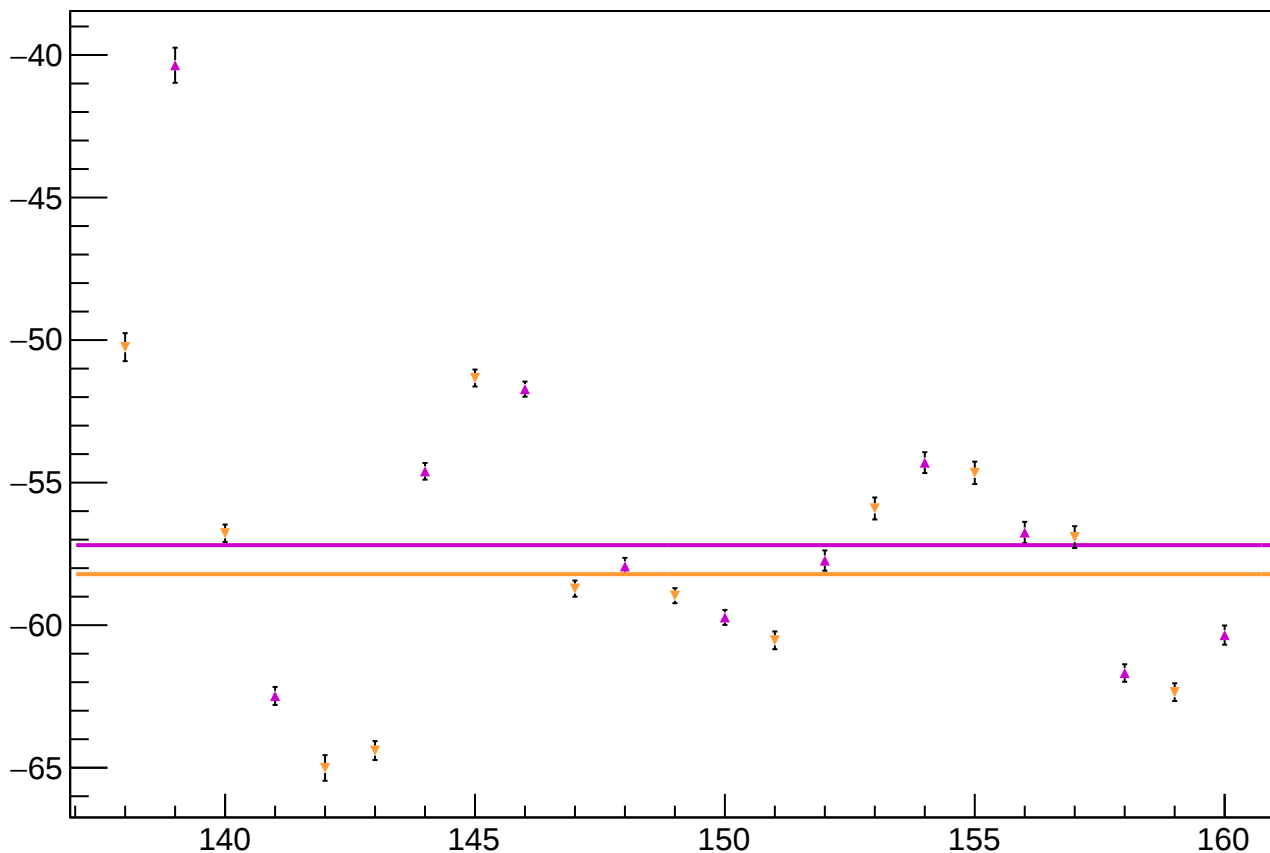
Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

In: 10.928 $\pm$ 0.115  $\chi^2$ /NDF:698.9/10

Out: 9.178 $\pm$ 0.115  $\chi^2$ /NDF:2121.5/11

All: 10.057 $\pm$ 0.081  $\chi^2$ /NDF: 2936.0/22

reg\_asym\_sam\_37\_48\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -58.211+/-0.096  $\chi^2/\text{NDF}$ :1769.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -57.193+/-0.097  $\chi^2/\text{NDF}$ :1997.3/10

Left: -57.705+/-0.068  $\chi^2/\text{NDF}$ : 3822.4/22

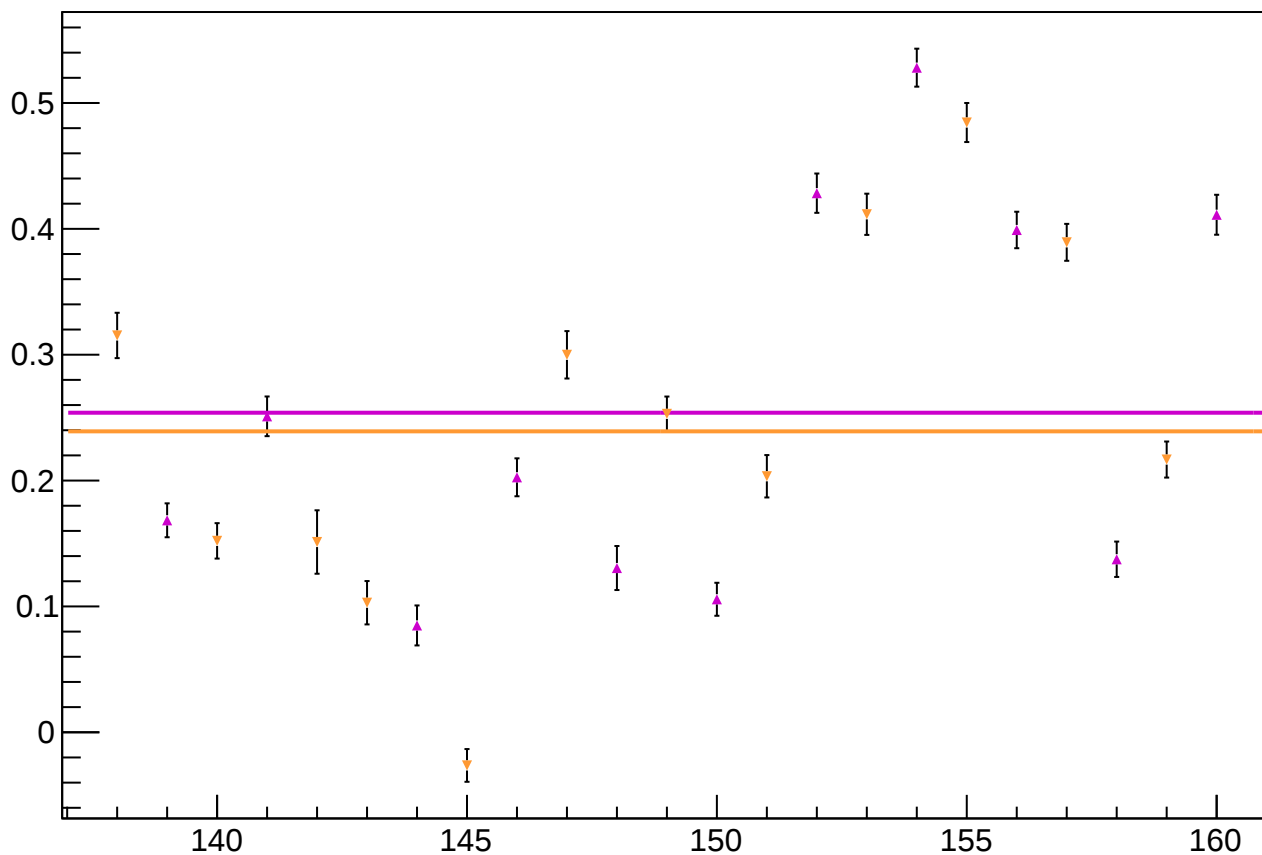
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -57.193+/-0.097  $\chi^2/\text{NDF}$ :1997.3/10

Out: -58.211+/-0.096  $\chi^2/\text{NDF}$ :1769.7/11

All: -57.705+/-0.068  $\chi^2/\text{NDF}$ : 3822.4/22

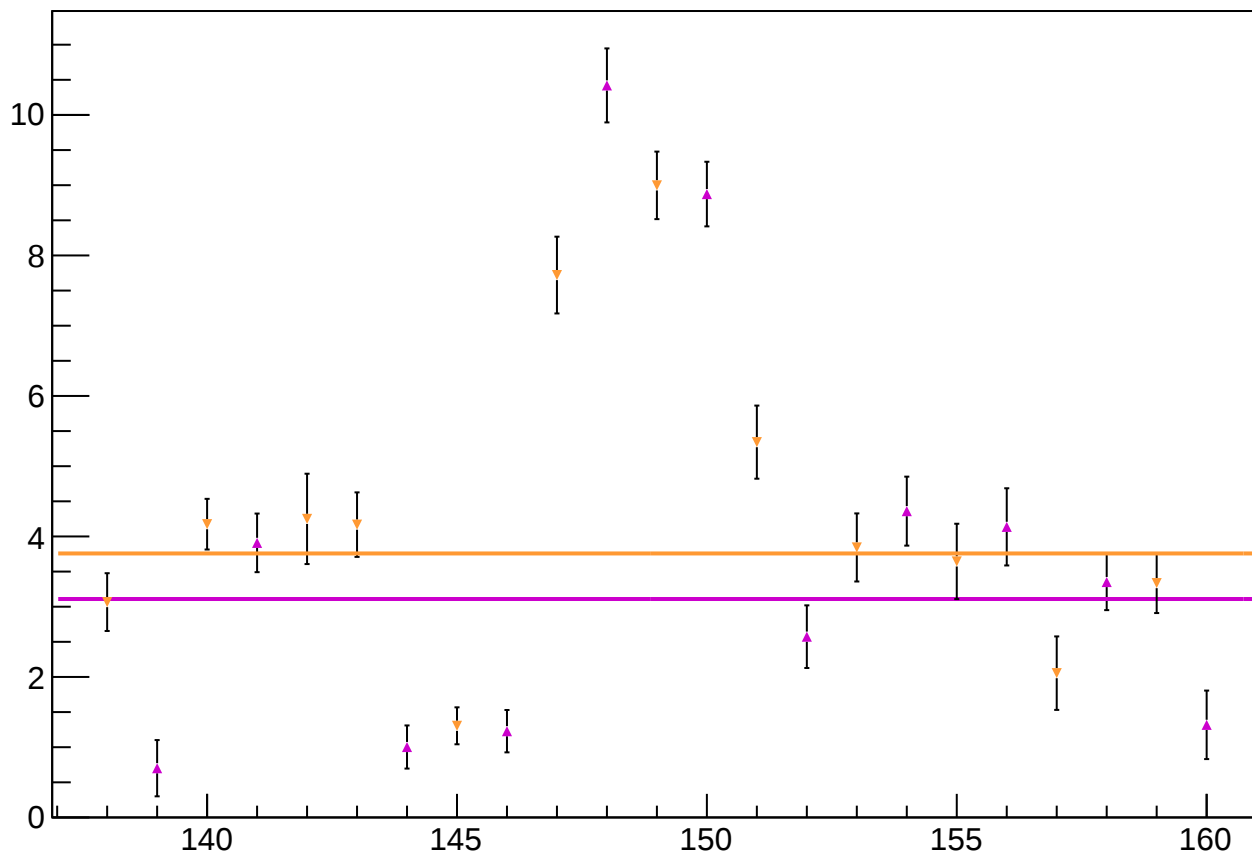
reg\_asym\_sam\_37\_48\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.239 $\pm$ 0.005  $\chi^2$ /NDF:1031.1/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.254 $\pm$ 0.005  $\chi^2$ /NDF:1064.7/10

Left: 0.247 $\pm$ 0.003  $\chi^2$ /NDF: 2101.2/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 0.254 $\pm$ 0.005  $\chi^2$ /NDF:1064.7/10  
 Out: 0.239 $\pm$ 0.005  $\chi^2$ /NDF:1031.1/11  
 All: 0.247 $\pm$ 0.003  $\chi^2$ /NDF: 2101.2/22

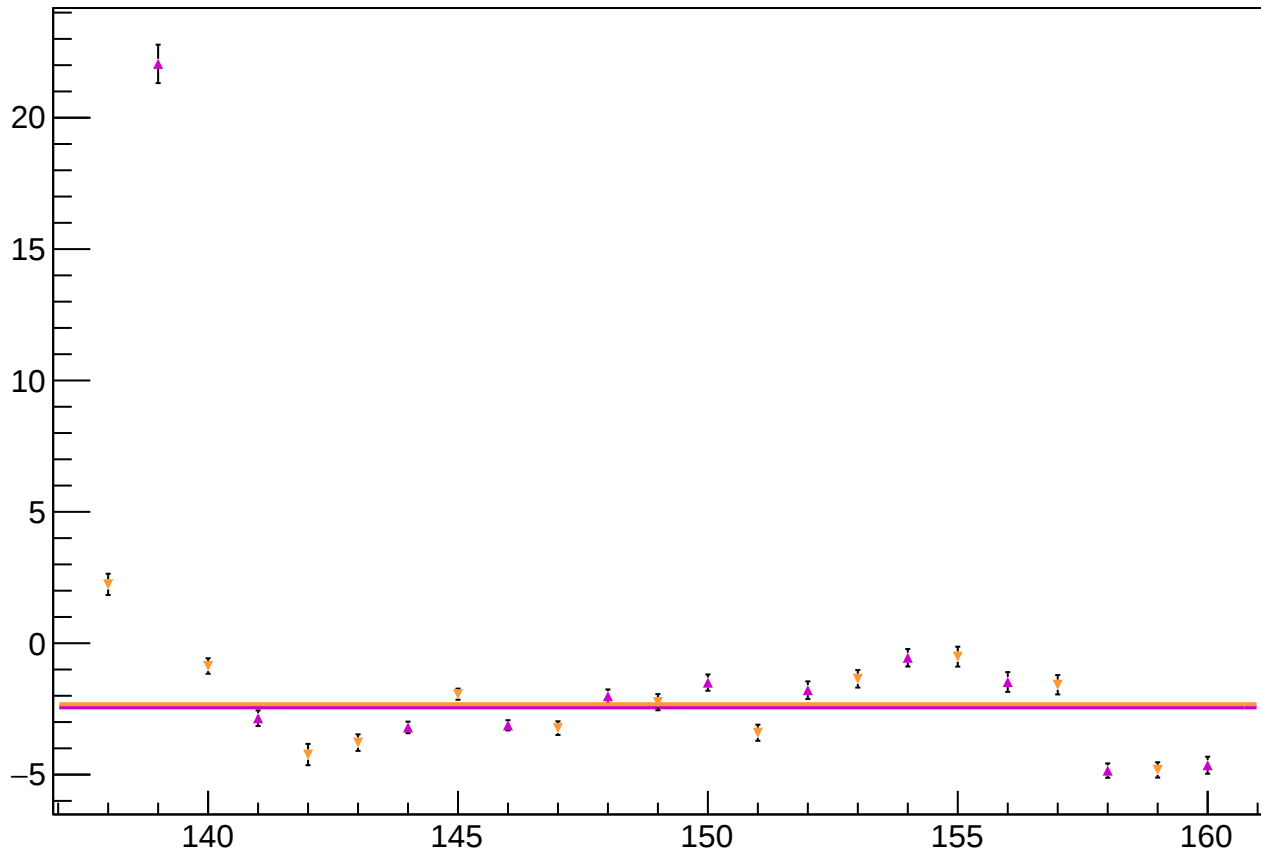
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 3.758+/-0.125  $\chi^2/\text{NDF}$ :285.0/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 3.110+/-0.124  $\chi^2/\text{NDF}$ :500.9/10

Left: 3.430+/-0.088  $\chi^2/\text{NDF}$ : 799.4/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 3.110+/-0.124  $\chi^2/\text{NDF}$ :500.9/10  
 Out: 3.758+/-0.125  $\chi^2/\text{NDF}$ :285.0/11  
 All: 3.430+/-0.088  $\chi^2/\text{NDF}$ : 799.4/22

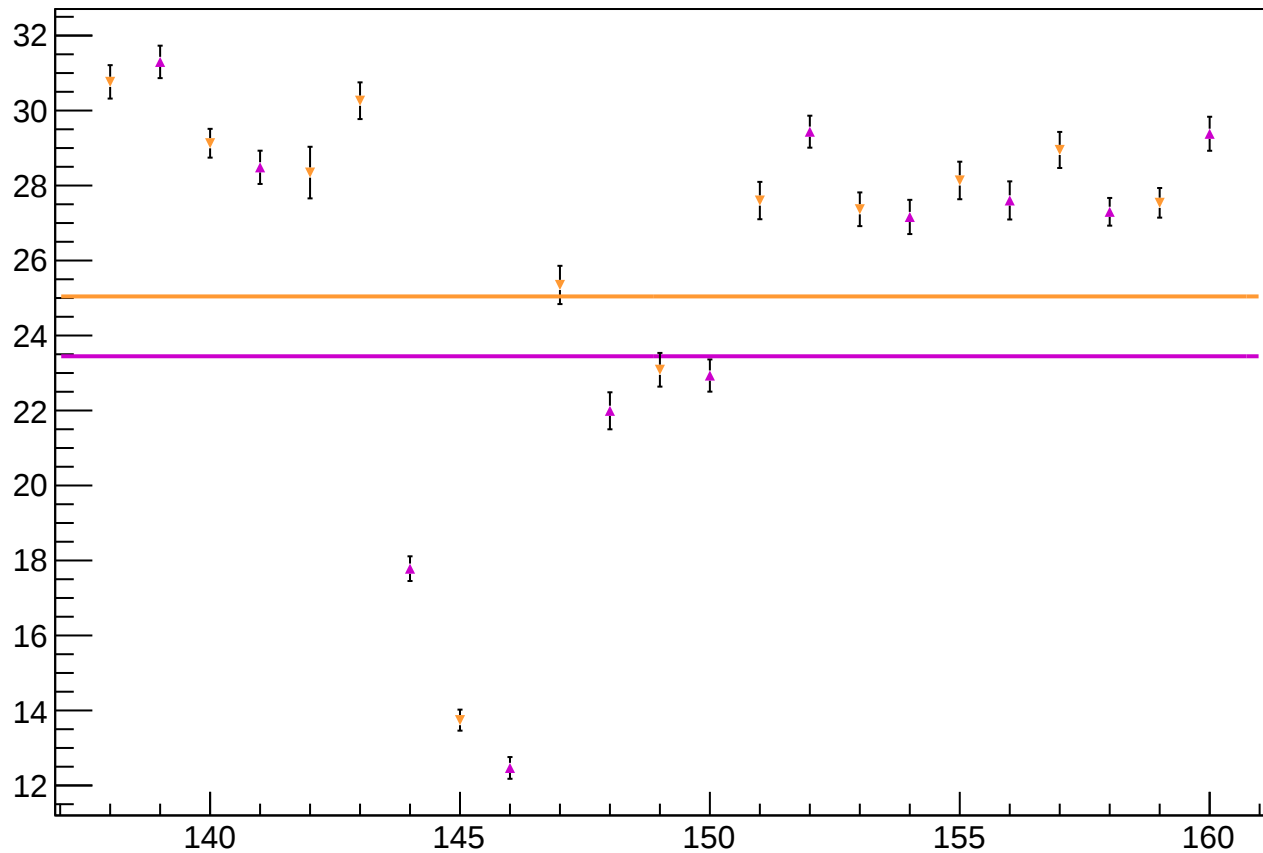
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -2.321+/-0.089  $\chi^2/\text{NDF}$ :332.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -2.440+/-0.086  $\chi^2/\text{NDF}$ :1326.1/10

Left: -2.382+/-0.062  $\chi^2/\text{NDF}$ : 1659.7/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -2.440+/-0.086  $\chi^2/\text{NDF}$ :1326.1/10  
 Out: -2.321+/-0.089  $\chi^2/\text{NDF}$ :332.7/11  
 All: -2.382+/-0.062  $\chi^2/\text{NDF}$ : 1659.7/22

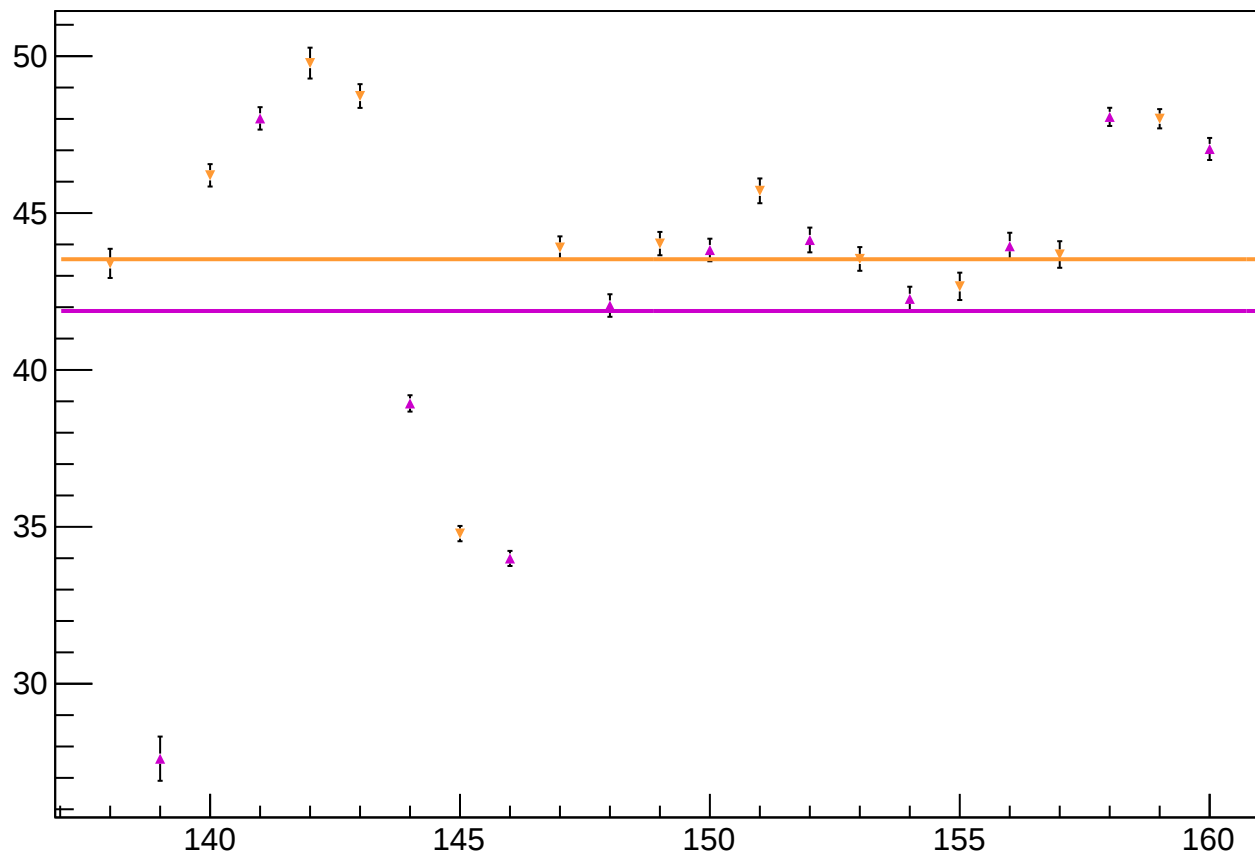
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 25.042 $\pm$ 0.126  $\chi^2$ /NDF:2256.0/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 23.446 $\pm$ 0.122  $\chi^2$ /NDF:2807.3/10

Left: 24.220 $\pm$ 0.087  $\chi^2$ /NDF: 5146.5/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 23.446 $\pm$ 0.122  $\chi^2$ /NDF:2807.3/10  
 Out: 25.042 $\pm$ 0.126  $\chi^2$ /NDF:2256.0/11  
 All: 24.220 $\pm$ 0.087  $\chi^2$ /NDF: 5146.5/22

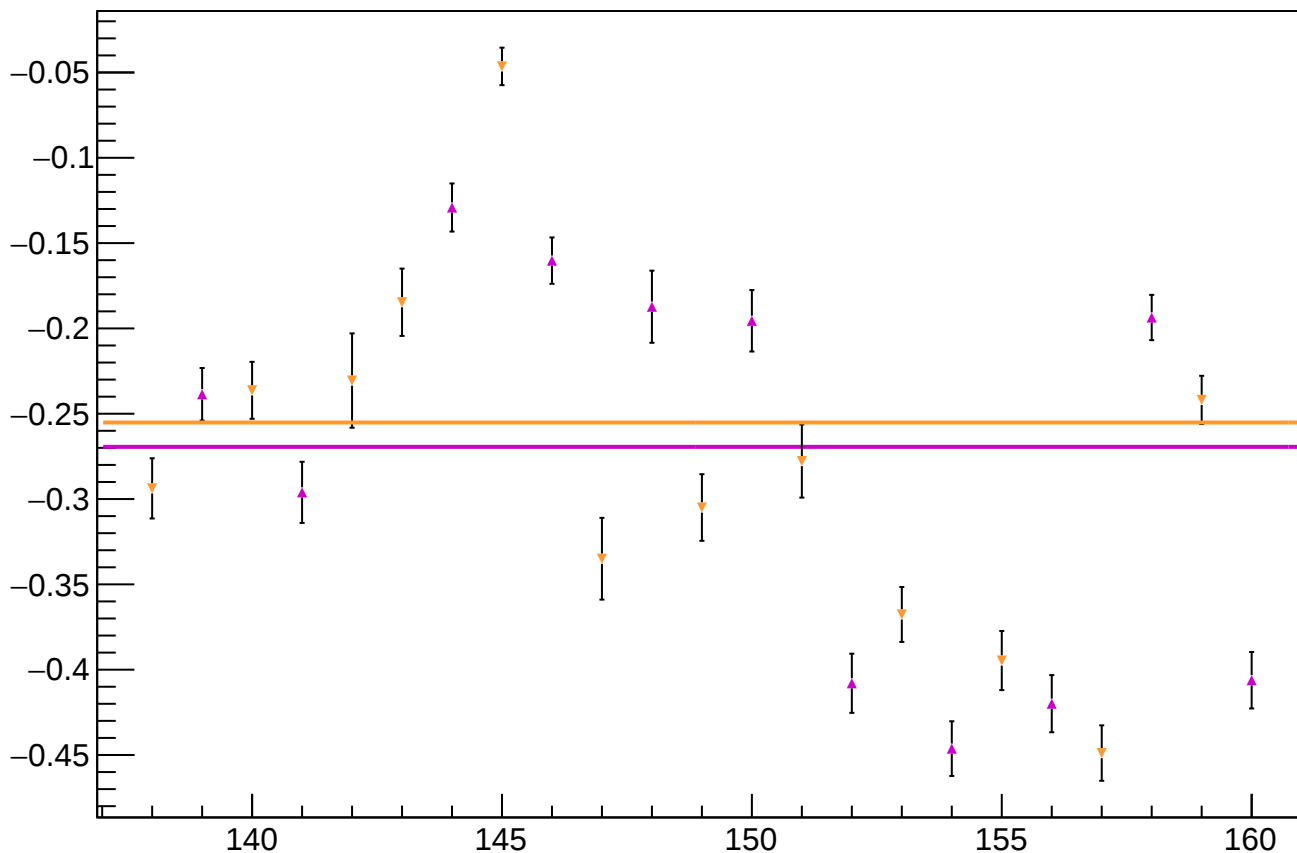
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 43.529+/-0.105  $\chi^2/\text{NDF}$ :1941.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 41.879+/-0.102  $\chi^2/\text{NDF}$ :2666.0/10

Left: 42.679+/-0.073  $\chi^2/\text{NDF}$ : 4734.0/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 41.879+/-0.102  $\chi^2/\text{NDF}$ :2666.0/10  
 Out: 43.529+/-0.105  $\chi^2/\text{NDF}$ :1941.4/11  
 All: 42.679+/-0.073  $\chi^2/\text{NDF}$ : 4734.0/22

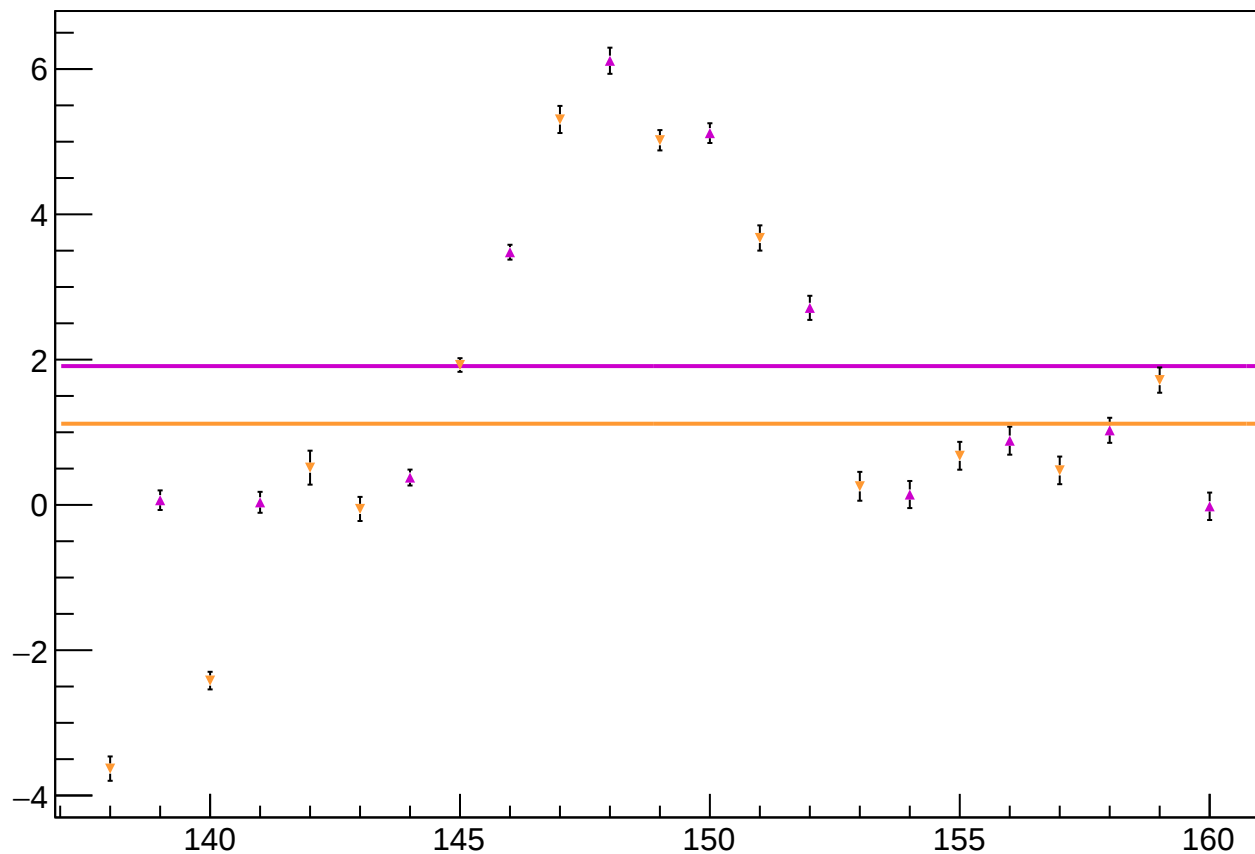
reg\_asym\_sam\_15\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.255+/-0.005  $\chi^2/\text{NDF}$ : 656.1/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.269+/-0.005  $\chi^2/\text{NDF}$ : 569.0/10

Left: -0.262+/-0.003  $\chi^2/\text{NDF}$ : 1229.5/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.269+/-0.005  $\chi^2/\text{NDF}$ : 569.0/10  
 Out: -0.255+/-0.005  $\chi^2/\text{NDF}$ : 656.1/11  
 All: -0.262+/-0.003  $\chi^2/\text{NDF}$ : 1229.5/22

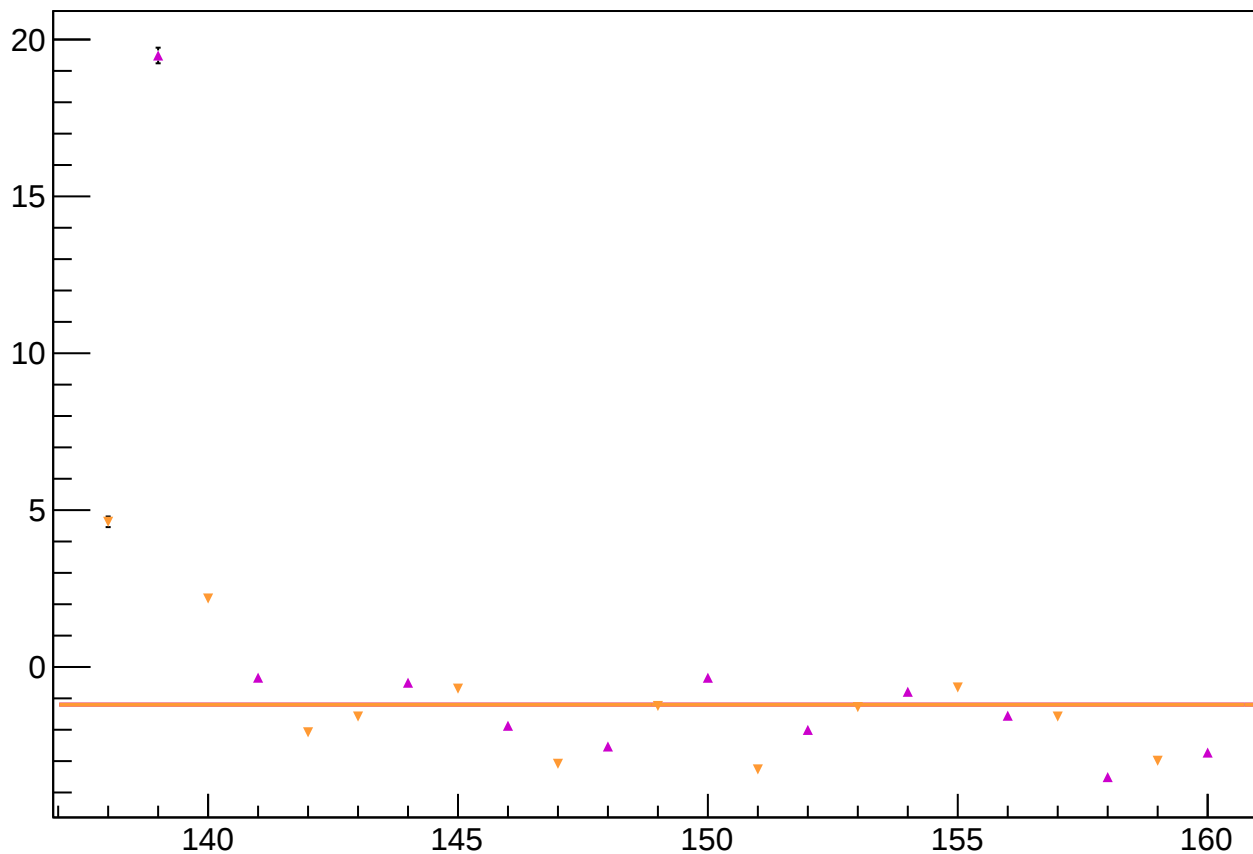
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 1.118+/-0.045  $\chi^2/\text{NDF}$ :3331.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 1.911+/-0.044  $\chi^2/\text{NDF}$ :2163.0/10

Left: 1.523+/-0.031  $\chi^2/\text{NDF}$ : 5654.5/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 1.911+/-0.044  $\chi^2/\text{NDF}$ :2163.0/10  
 Out: 1.118+/-0.045  $\chi^2/\text{NDF}$ :3331.4/11  
 All: 1.523+/-0.031  $\chi^2/\text{NDF}$ : 5654.5/22

reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1.200+/-0.032  $\chi^2/\text{NDF}$ : 3516.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.199+/-0.031  $\chi^2/\text{NDF}$ : 8044.2/10

Left: -1.199+/-0.022  $\chi^2/\text{NDF}$ : 11561.1/22

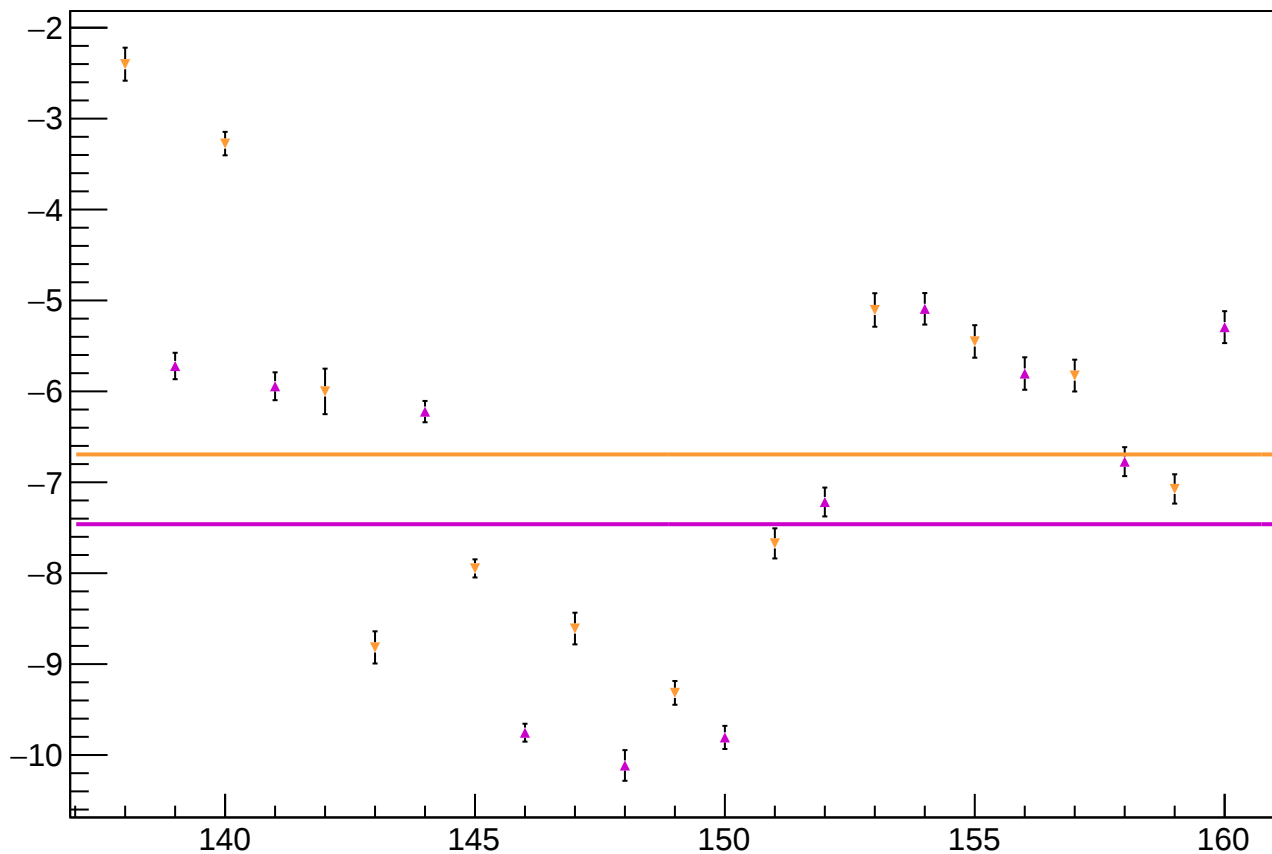
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -1.199+/-0.031  $\chi^2/\text{NDF}$ : 8044.2/10

Out: -1.200+/-0.032  $\chi^2/\text{NDF}$ : 3516.9/11

All: -1.199+/-0.022  $\chi^2/\text{NDF}$ : 11561.1/22

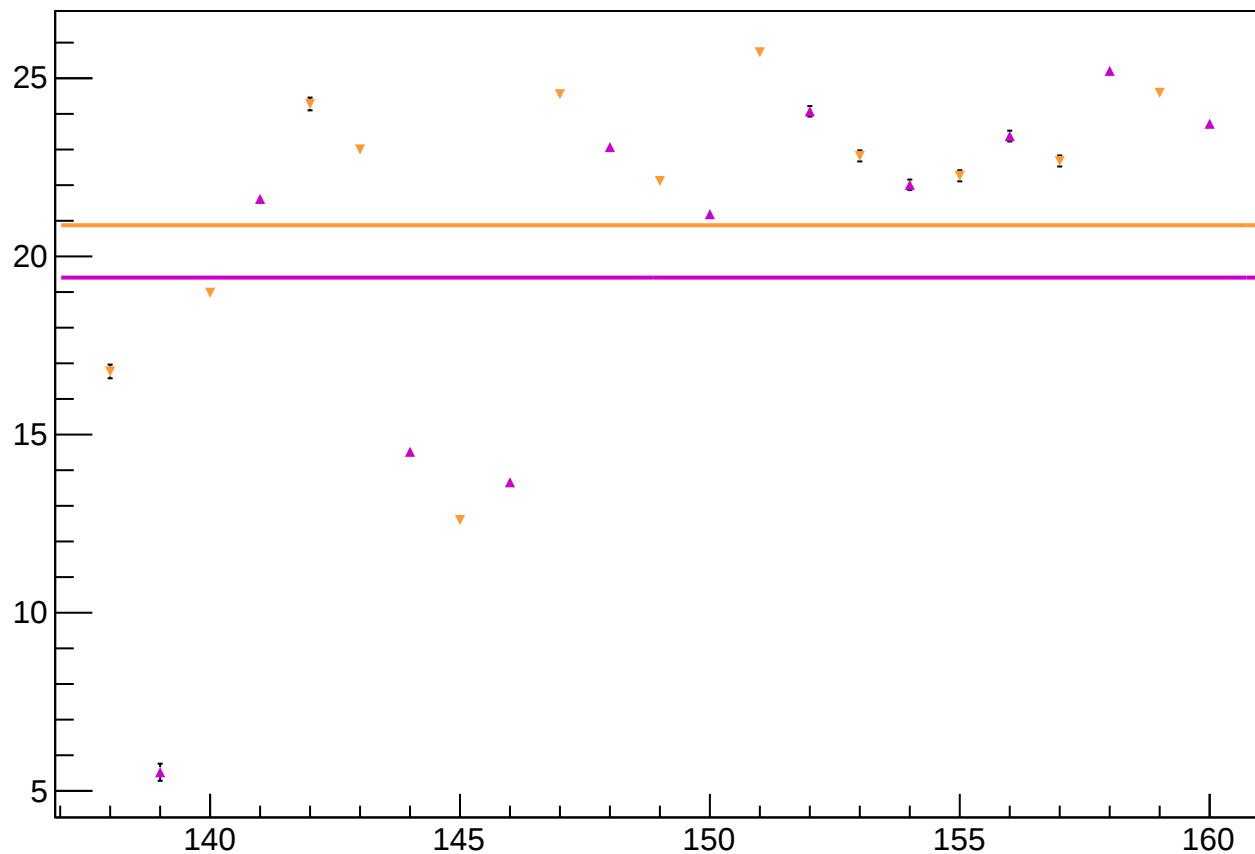
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -6.694 $\pm$ 0.045  $\chi^2$ /NDF:2280.5/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -7.461 $\pm$ 0.043  $\chi^2$ /NDF:1928.9/10

Left: -7.092 $\pm$ 0.031  $\chi^2$ /NDF: 4361.9/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: -7.461 $\pm$ 0.043  $\chi^2$ /NDF:1928.9/10  
 Out: -6.694 $\pm$ 0.045  $\chi^2$ /NDF:2280.5/11  
 All: -7.092 $\pm$ 0.031  $\chi^2$ /NDF: 4361.9/22

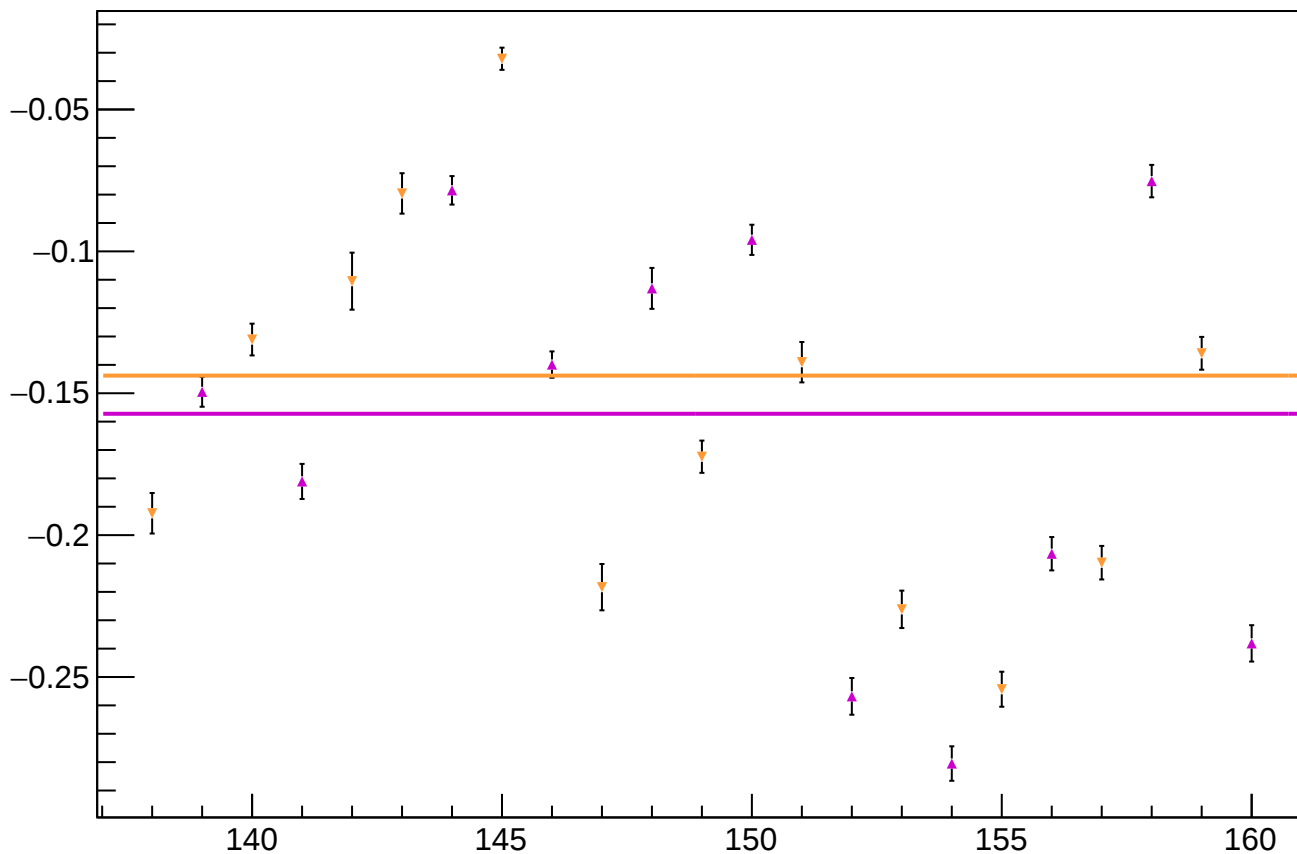
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 20.875+/-0.038  $\chi^2/\text{NDF}$ :13729.7/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 19.405+/-0.036  $\chi^2/\text{NDF}$ :17615.2/10

Left: 20.116+/-0.026  $\chi^2/\text{NDF}$ : 32131.3/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 19.405+/-0.036  $\chi^2/\text{NDF}$ :17615.2/10  
 Out: 20.875+/-0.038  $\chi^2/\text{NDF}$ :13729.7/11  
 All: 20.116+/-0.026  $\chi^2/\text{NDF}$ : 32131.3/22

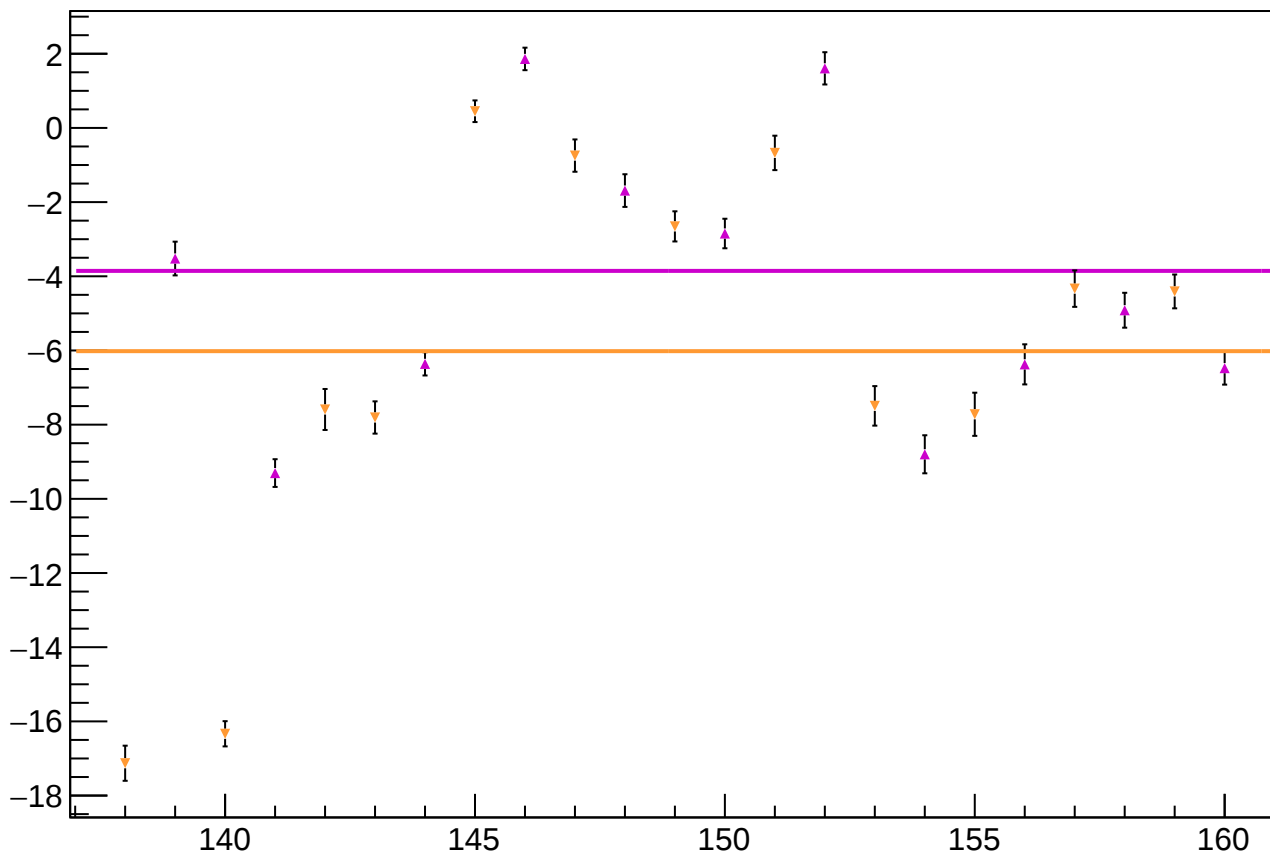
reg\_asym\_sam\_37\_26\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -0.144+/-0.002  $\chi^2/\text{NDF}$ :1672.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -0.157+/-0.002  $\chi^2/\text{NDF}$ :1530.6/10

Left: -0.151+/-0.001  $\chi^2/\text{NDF}$ : 3232.7/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -0.157+/-0.002  $\chi^2/\text{NDF}$ :1530.6/10  
 Out: -0.144+/-0.002  $\chi^2/\text{NDF}$ :1672.3/11  
 All: -0.151+/-0.001  $\chi^2/\text{NDF}$ : 3232.7/22

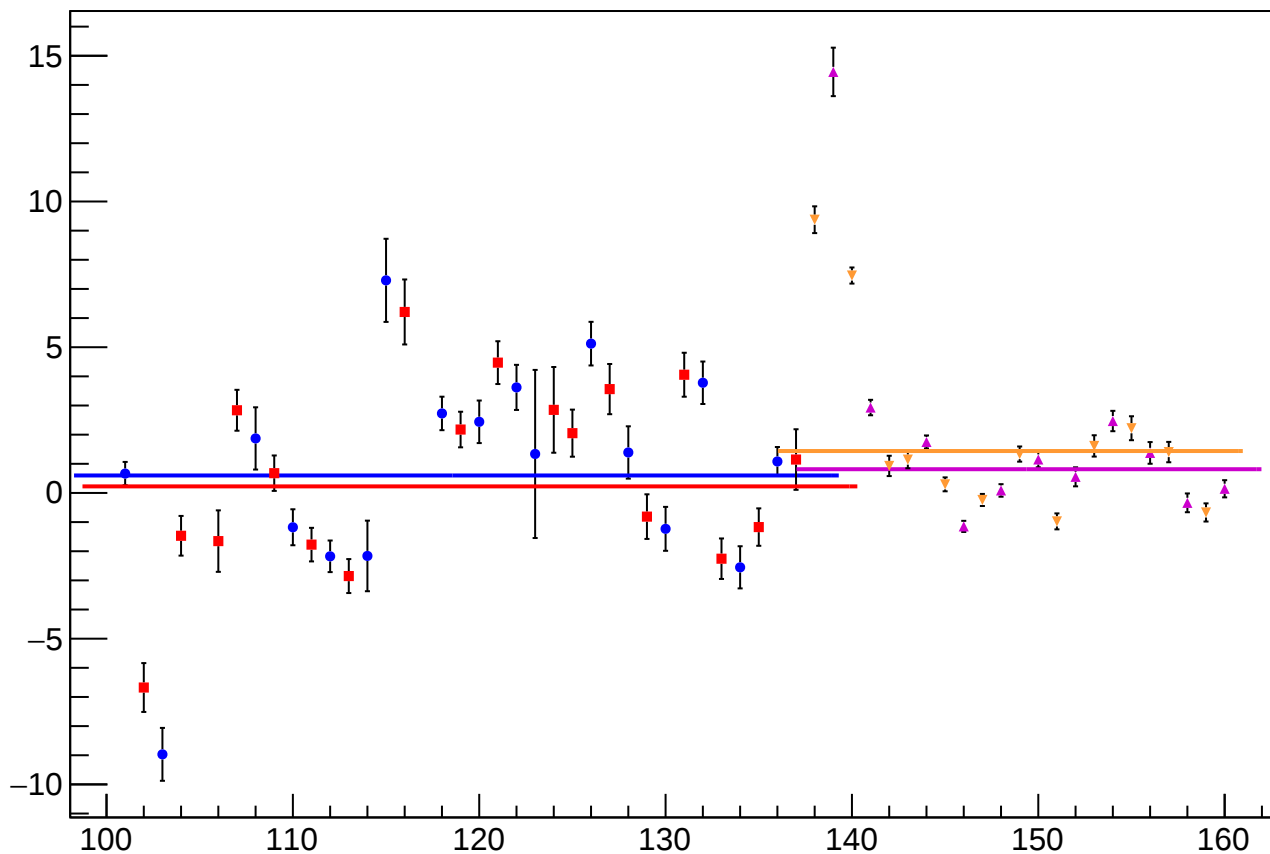
reg\_asym\_sam\_1357\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -6.018+/-0.124  $\chi^2/\text{NDF}$ :2374.8/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -3.854+/-0.123  $\chi^2/\text{NDF}$ :974.7/10

Left: -4.921+/-0.087  $\chi^2/\text{NDF}$ : 3503.3/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -3.854+/-0.123  $\chi^2/\text{NDF}$ :974.7/10  
 Out: -6.018+/-0.124  $\chi^2/\text{NDF}$ :2374.8/11  
 All: -4.921+/-0.087  $\chi^2/\text{NDF}$ : 3503.3/22

reg\_asym\_sam\_1357\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $0.600 \pm 0.169$   $\chi^2/\text{NDF}$ : 291.9/16

Left Out:  $1.438 \pm 0.085$   $\chi^2/\text{NDF}$ : 992.8/11

Right Out:  $0.225 \pm 0.175$   $\chi^2/\text{NDF}$ : 273.2/17

Left In:  $0.814 \pm 0.083$   $\chi^2/\text{NDF}$ : 511.8/10

Left:  $1.119 \pm 0.059$   $\chi^2/\text{NDF}$ : 1532.1/22

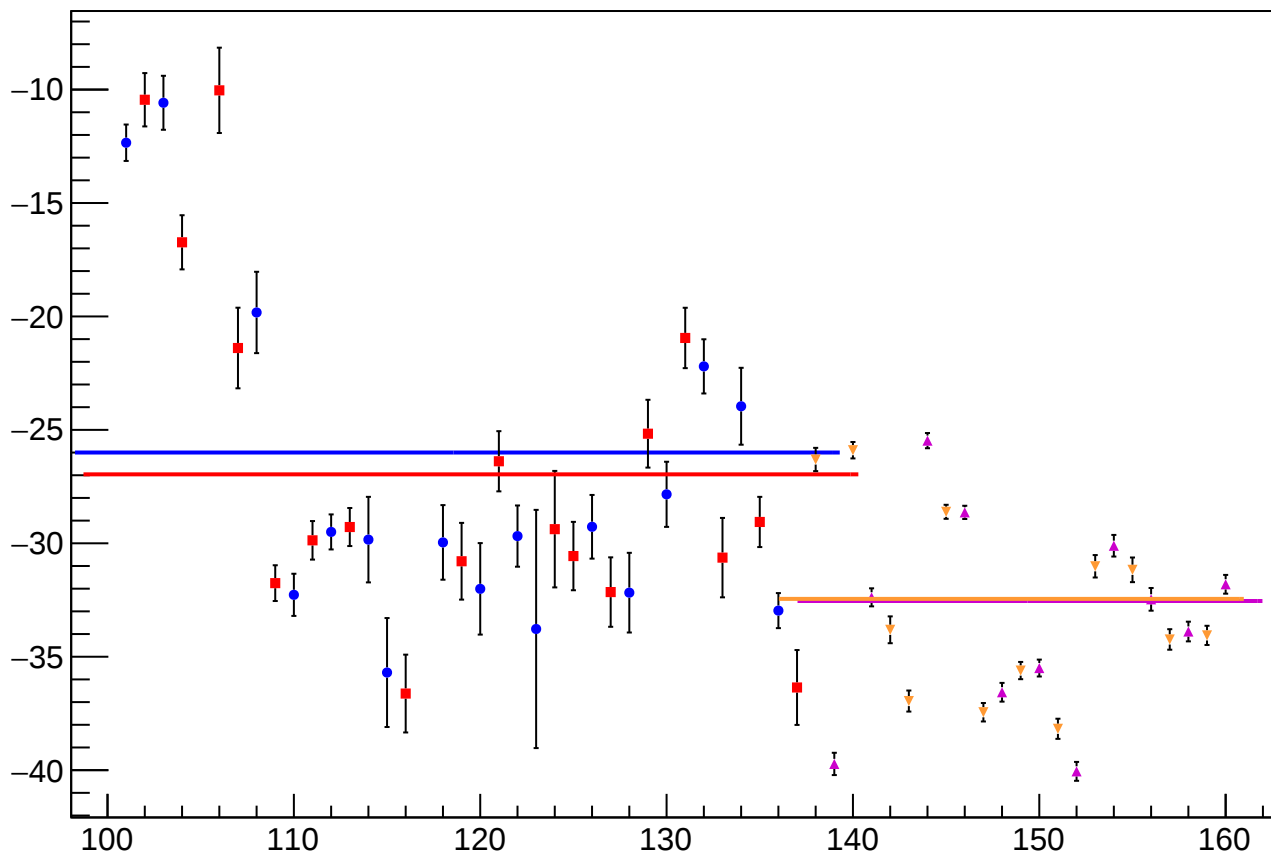
Right:  $0.418 \pm 0.122$   $\chi^2/\text{NDF}$ : 567.5/34

In:  $0.773 \pm 0.075$   $\chi^2/\text{NDF}$ : 805.0/27

Out:  $1.206 \pm 0.076$   $\chi^2/\text{NDF}$ : 1304.9/29

All:  $0.984 \pm 0.053$   $\chi^2/\text{NDF}$ : 2126.4/57

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-25.998 \pm 0.300$   $\chi^2/\text{NDF}$ : 692.6/16

Left Out:  $-32.450 \pm 0.124$   $\chi^2/\text{NDF}$ : 1155.0/11

Right Out:  $-26.960 \pm 0.298$   $\chi^2/\text{NDF}$ : 535.4/17

Left In:  $-32.543 \pm 0.120$   $\chi^2/\text{NDF}$ : 1360.1/10

Left:  $-32.498 \pm 0.086$   $\chi^2/\text{NDF}$ : 2515.4/22

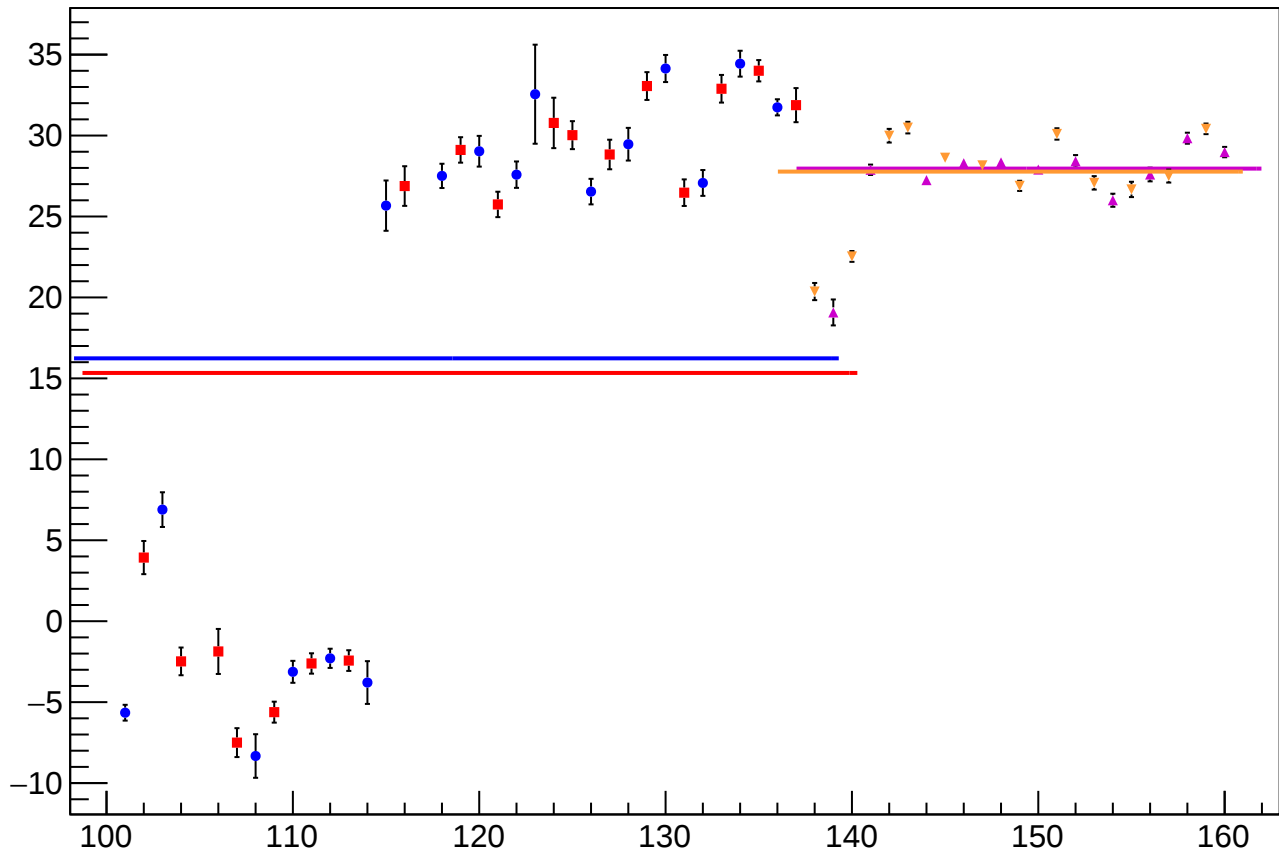
Right:  $-26.482 \pm 0.212$   $\chi^2/\text{NDF}$ : 1233.2/34

In:  $-31.642 \pm 0.111$   $\chi^2/\text{NDF}$ : 2462.8/27

Out:  $-31.645 \pm 0.114$   $\chi^2/\text{NDF}$ : 1979.5/29

All:  $-31.643 \pm 0.080$   $\chi^2/\text{NDF}$ : 4442.3/57

reg\_asym\_sam\_1357\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 16.237 $\pm$ 0.191  $\chi^2$ /NDF: 7579.9/16

Left Out: 27.773 $\pm$ 0.102  $\chi^2$ /NDF:662.8/11

Right Out: 15.335 $\pm$ 0.197  $\chi^2$ /NDF: 7259.7/17

Left In: 27.958 $\pm$ 0.099  $\chi^2$ /NDF:199.9/10

Left: 27.869 $\pm$ 0.071  $\chi^2$ /NDF: 864.3/22

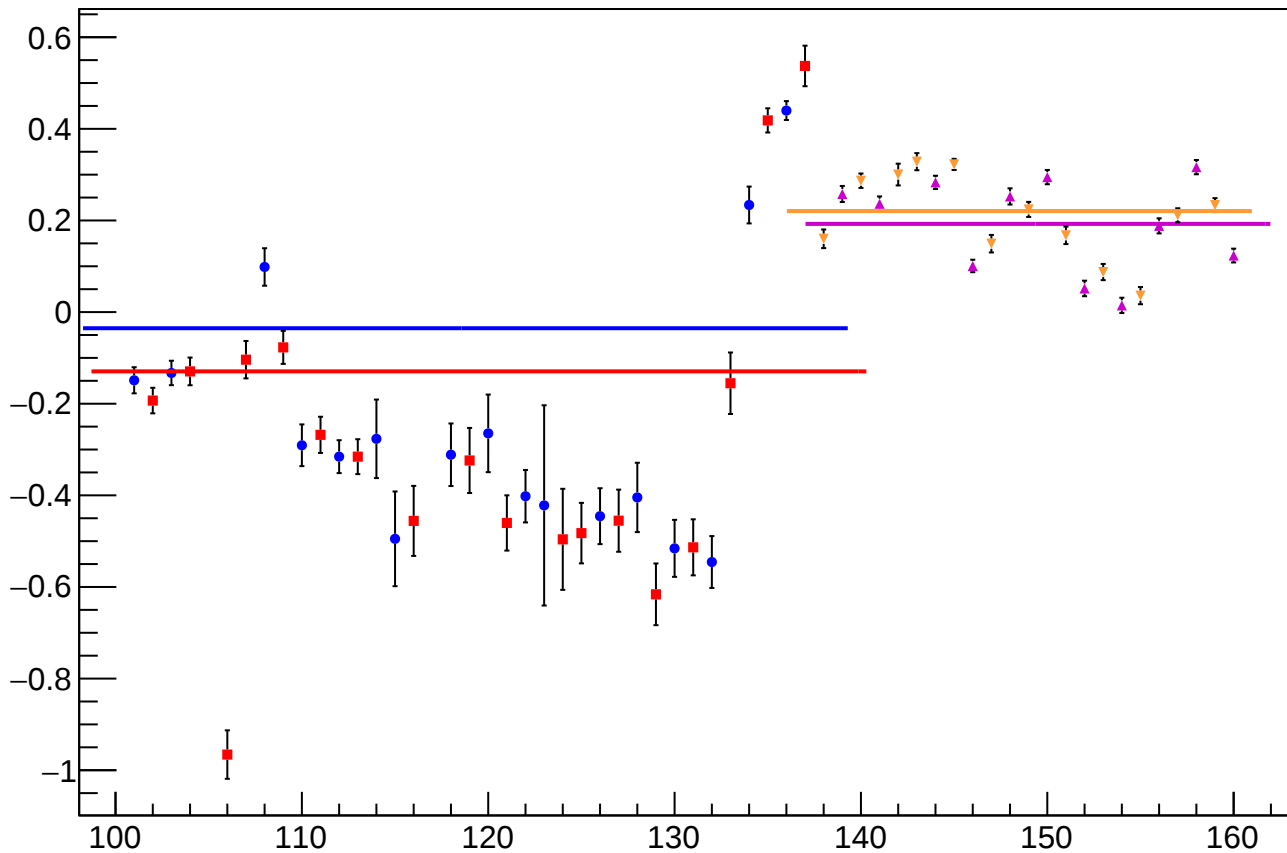
Right: 15.800 $\pm$ 0.137  $\chi^2$ /NDF: 14850.4/34

In: 25.471 $\pm$ 0.088  $\chi^2$ /NDF:10734.5/27

Out: 25.131 $\pm$ 0.091  $\chi^2$ /NDF:11057.2/29

All: 25.306 $\pm$ 0.063  $\chi^2$ /NDF: 21798.9/57

reg\_asym\_sam\_1357\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -0.035+/-0.010  $\chi^2/\text{NDF}$ : 1013.6/16

Left Out: 0.221+/-0.005  $\chi^2/\text{NDF}$ :317.7/11

Right Out: -0.129+/-0.010  $\chi^2/\text{NDF}$ : 1161.5/17

Left In: 0.193+/-0.005  $\chi^2/\text{NDF}$ :426.5/10

Left: 0.206+/-0.003  $\chi^2/\text{NDF}$ : 761.0/22

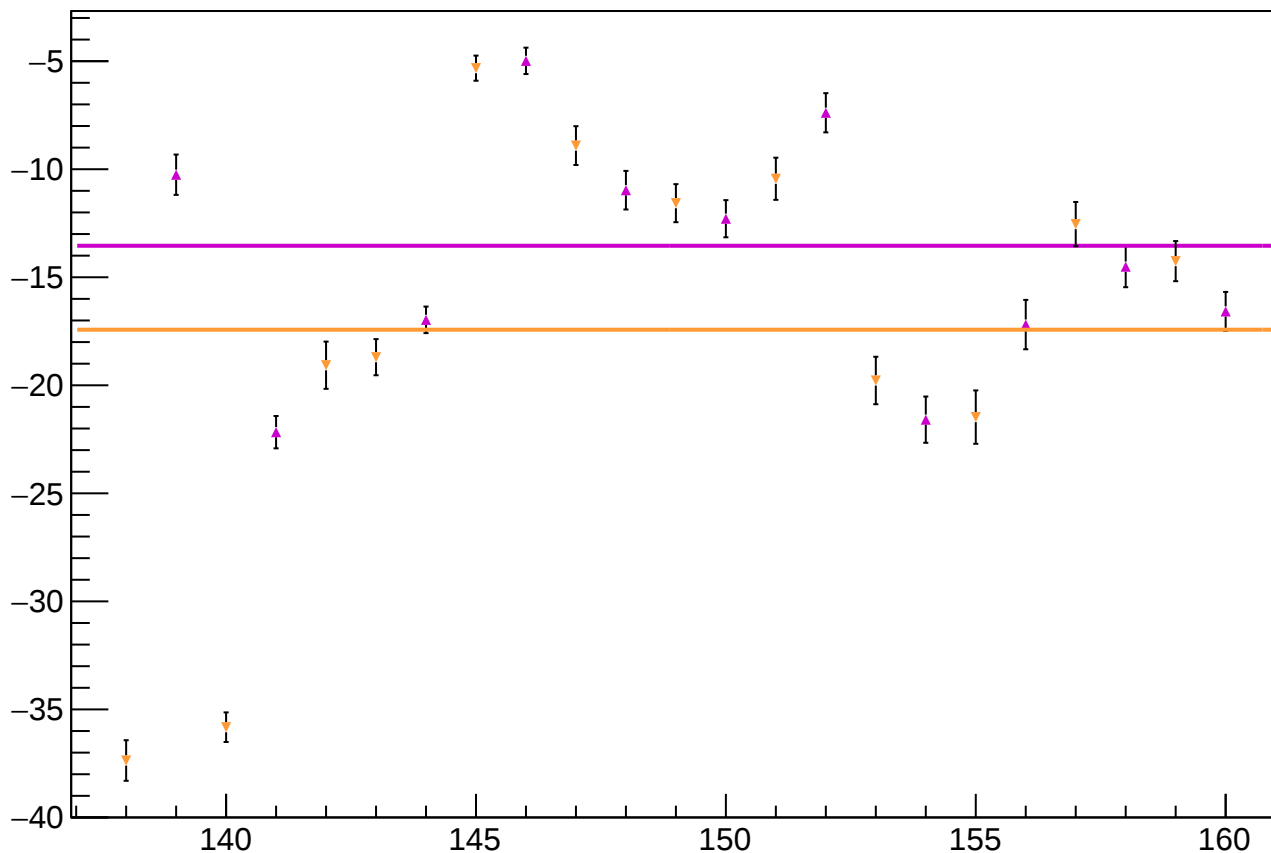
Right: -0.082+/-0.007  $\chi^2/\text{NDF}$ : 2216.5/34

In: 0.152+/-0.004  $\chi^2/\text{NDF}$ :1840.9/27

Out: 0.157+/-0.004  $\chi^2/\text{NDF}$ :2407.4/29

All: 0.155+/-0.003  $\chi^2/\text{NDF}$ : 4248.9/57

reg\_asym\_sam\_2468\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected

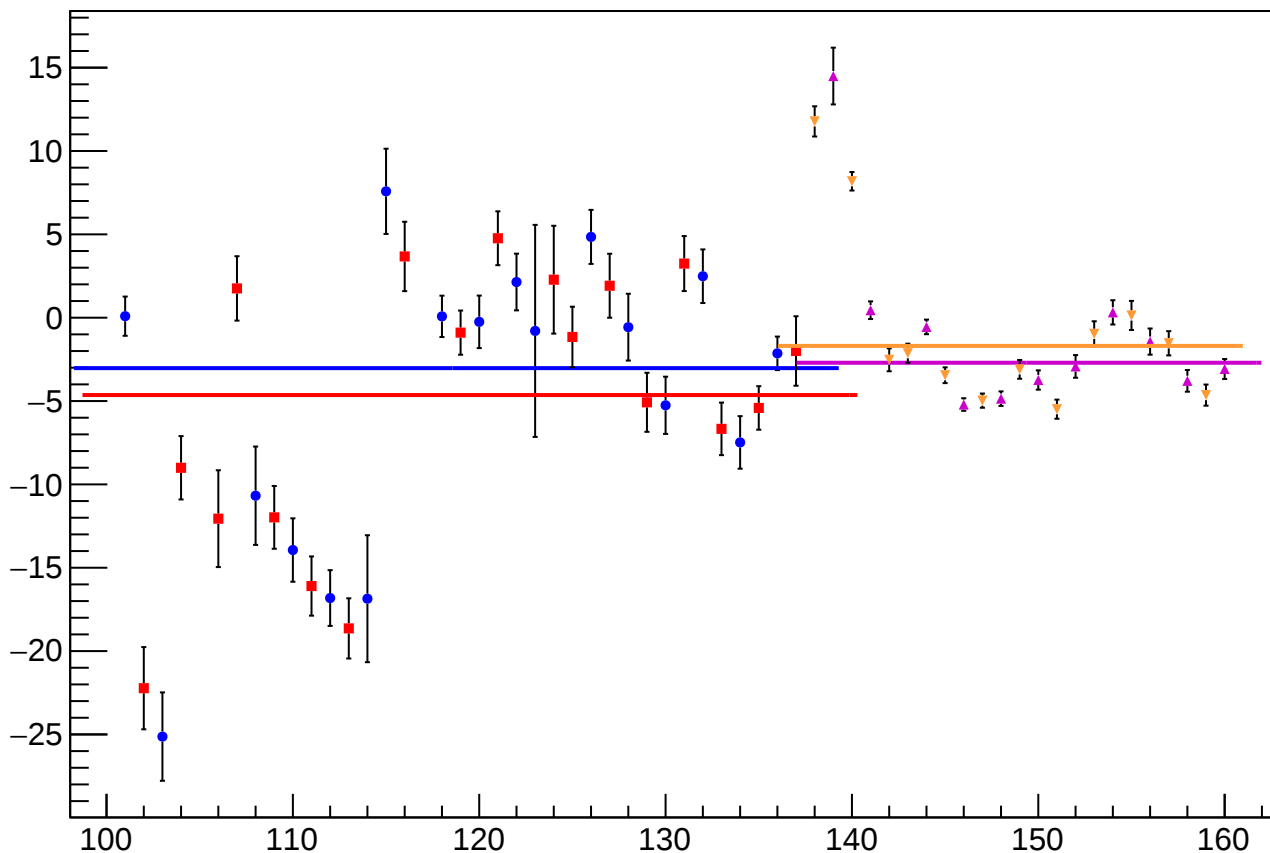


Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -17.427+/-0.253  $\chi^2/\text{NDF}$ :1845.4/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -13.542+/-0.250  $\chi^2/\text{NDF}$ :508.5/10

Left: -15.460+/-0.178  $\chi^2/\text{NDF}$ : 2473.5/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -13.542+/-0.250  $\chi^2/\text{NDF}$ :508.5/10  
 Out: -17.427+/-0.253  $\chi^2/\text{NDF}$ :1845.4/11

All: -15.460+/-0.178  $\chi^2/\text{NDF}$ : 2473.5/22

reg\_asym\_sam\_2468\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.025 \pm 0.408$   $\chi^2/\text{NDF}$ : 280.6/16

Left Out:  $-1.692 \pm 0.173$   $\chi^2/\text{NDF}$ : 689.5/11

Right Out:  $-4.640 \pm 0.427$   $\chi^2/\text{NDF}$ : 294.9/17

Left In:  $-2.702 \pm 0.168$   $\chi^2/\text{NDF}$ : 256.5/10

Left:  $-2.212 \pm 0.121$   $\chi^2/\text{NDF}$ : 963.5/22

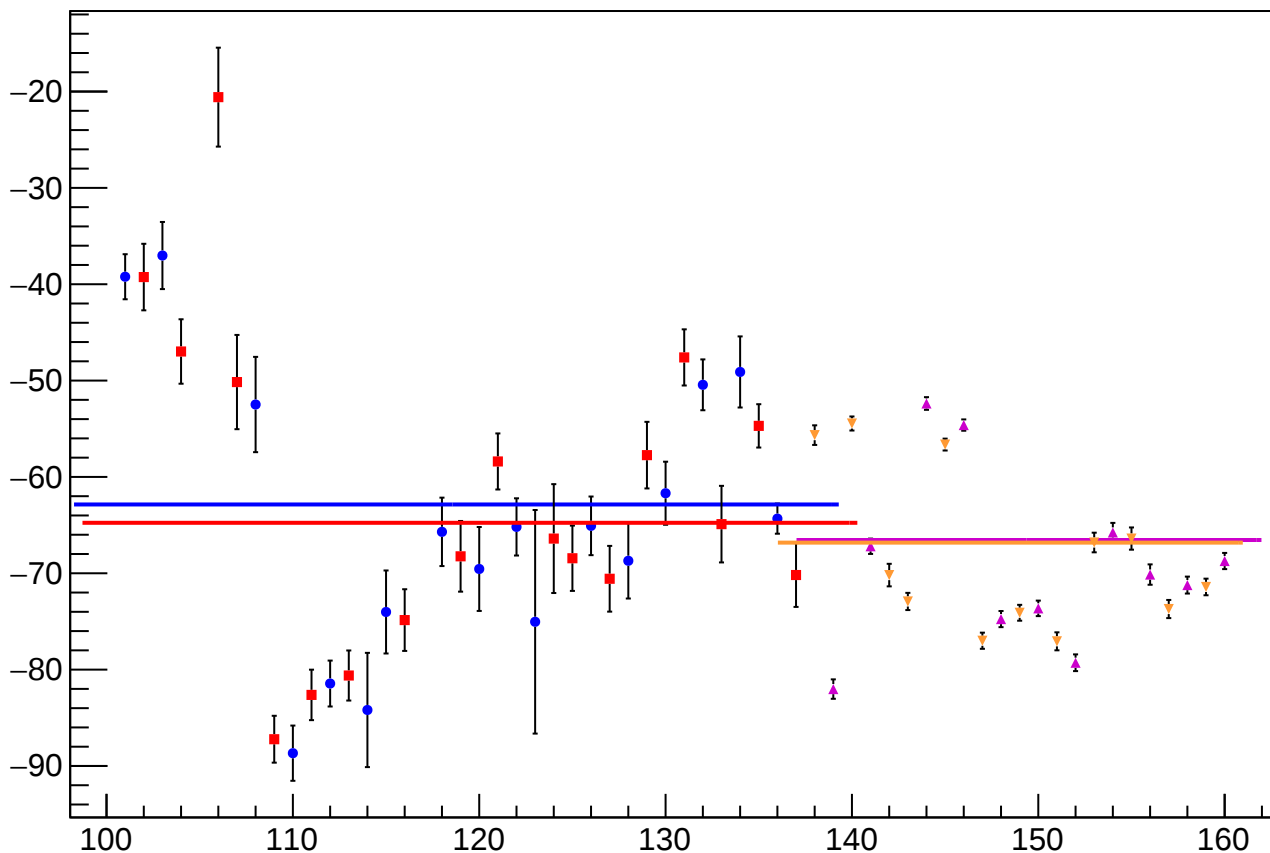
Right:  $-3.797 \pm 0.295$   $\chi^2/\text{NDF}$ : 583.0/34

In:  $-2.749 \pm 0.156$   $\chi^2/\text{NDF}$ : 537.6/27

Out:  $-2.110 \pm 0.161$   $\chi^2/\text{NDF}$ : 1025.4/29

All:  $-2.440 \pm 0.112$   $\chi^2/\text{NDF}$ : 1571.2/57

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-62.858 \pm 0.739$   $\chi^2/\text{NDF}$ : 367.7/16

Left Out:  $-66.818 \pm 0.252$   $\chi^2/\text{NDF}$ : 1163.3/11

Right Out:  $-64.761 \pm 0.753$   $\chi^2/\text{NDF}$ : 416.1/17

Left In:  $-66.547 \pm 0.245$   $\chi^2/\text{NDF}$ : 1550.2/10

Left:  $-66.678 \pm 0.176$   $\chi^2/\text{NDF}$ : 2714.1/22

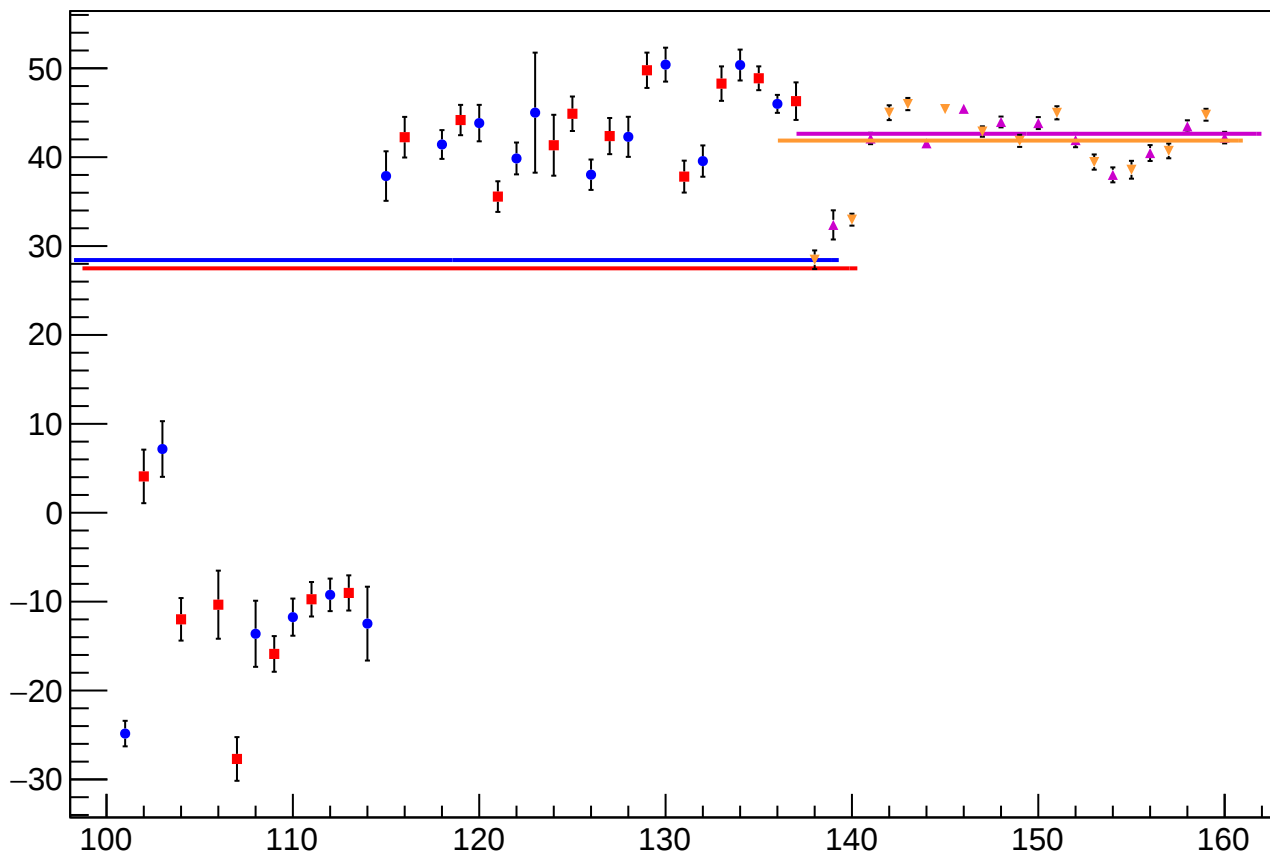
Right:  $-63.792 \pm 0.527$   $\chi^2/\text{NDF}$ : 787.1/34

In:  $-66.182 \pm 0.232$   $\chi^2/\text{NDF}$ : 1940.3/27

Out:  $-66.610 \pm 0.239$   $\chi^2/\text{NDF}$ : 1586.1/29

All:  $-66.390 \pm 0.167$   $\chi^2/\text{NDF}$ : 3528.1/57

reg\_asym\_sam\_2468\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $28.426 \pm 0.458$   $\chi^2/\text{NDF}: 3322.4/16$

Left Out:  $41.868 \pm 0.209$   $\chi^2/\text{NDF}: 491.5/11$

Right Out:  $27.493 \pm 0.479$   $\chi^2/\text{NDF}: 3027.8/17$

Left In:  $42.631 \pm 0.202$   $\chi^2/\text{NDF}: 125.4/10$

Left:  $42.262 \pm 0.145$   $\chi^2/\text{NDF}: 623.8/22$

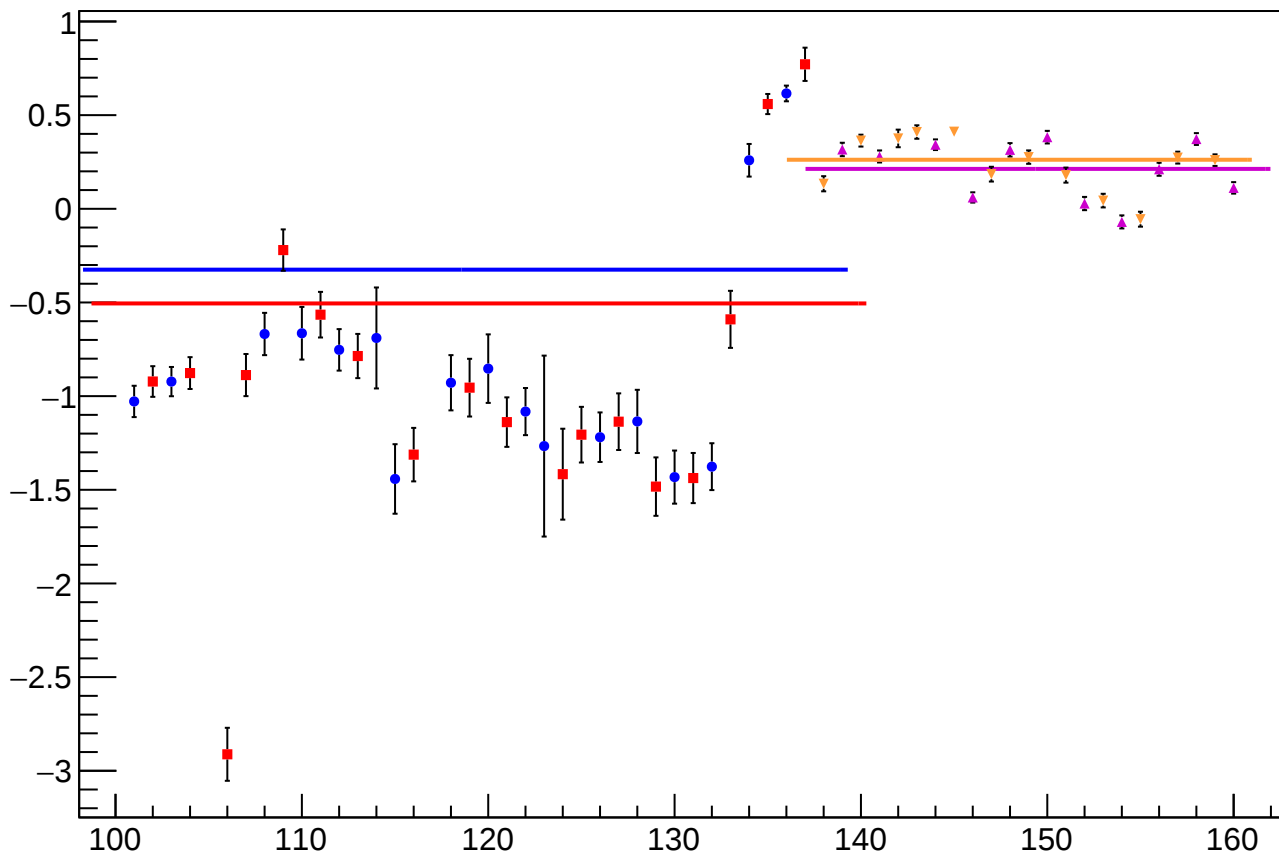
Right:  $27.980 \pm 0.331$   $\chi^2/\text{NDF}: 6352.1/34$

In:  $40.319 \pm 0.185$   $\chi^2/\text{NDF}: 4254.0/27$

Out:  $39.572 \pm 0.191$   $\chi^2/\text{NDF}: 4276.8/29$

All:  $39.959 \pm 0.133$   $\chi^2/\text{NDF}: 8538.8/57$

reg\_asym\_sam\_2468\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.325 \pm 0.025$   $\chi^2/\text{NDF}$ : 1011.7/16

Left Out:  $0.262 \pm 0.010$   $\chi^2/\text{NDF}$ : 188.9/11

Right Out:  $-0.505 \pm 0.026$   $\chi^2/\text{NDF}$ : 1163.3/17

Left In:  $0.213 \pm 0.010$   $\chi^2/\text{NDF}$ : 226.9/10

Left:  $0.237 \pm 0.007$   $\chi^2/\text{NDF}$ : 428.0/22

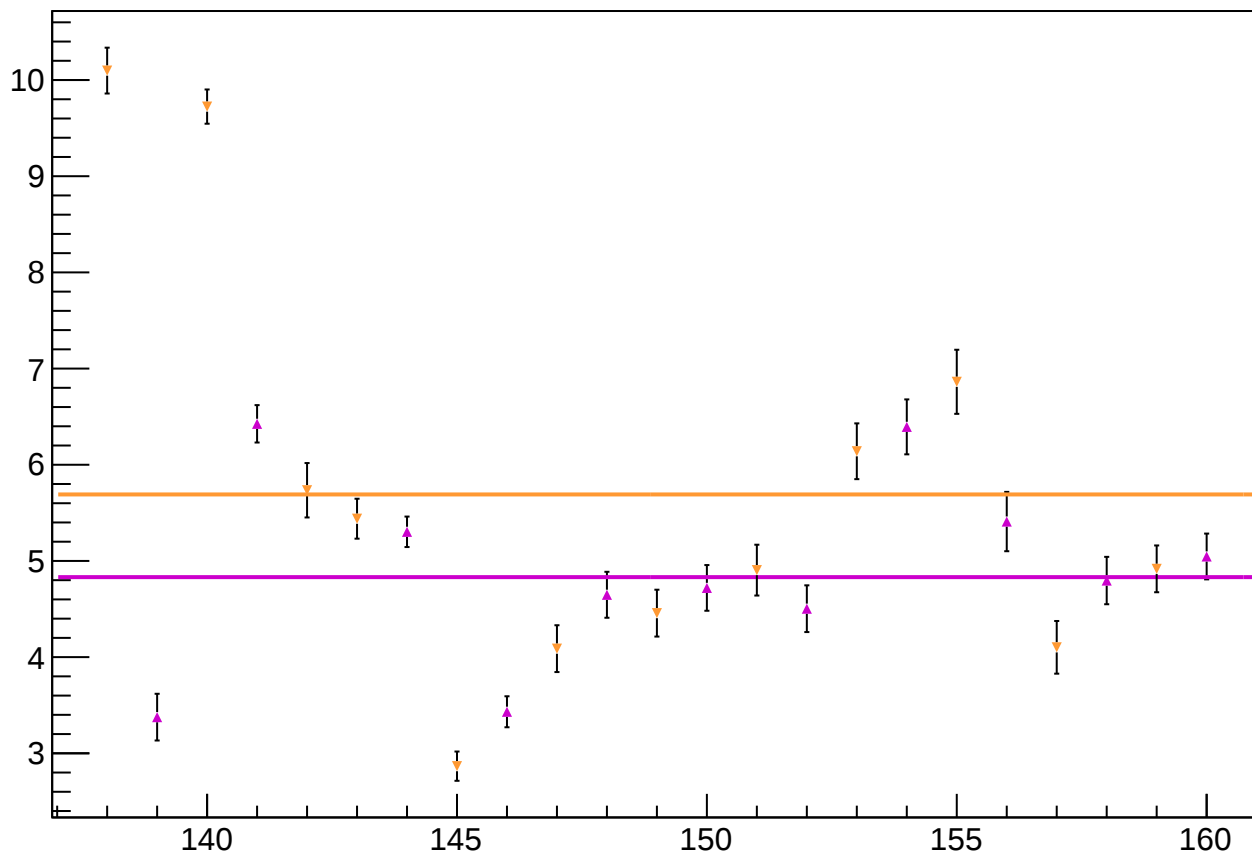
Right:  $-0.412 \pm 0.018$   $\chi^2/\text{NDF}$ : 2200.3/34

In:  $0.141 \pm 0.009$   $\chi^2/\text{NDF}$ : 1642.6/27

Out:  $0.161 \pm 0.009$   $\chi^2/\text{NDF}$ : 2122.4/29

All:  $0.151 \pm 0.007$   $\chi^2/\text{NDF}$ : 3767.4/57

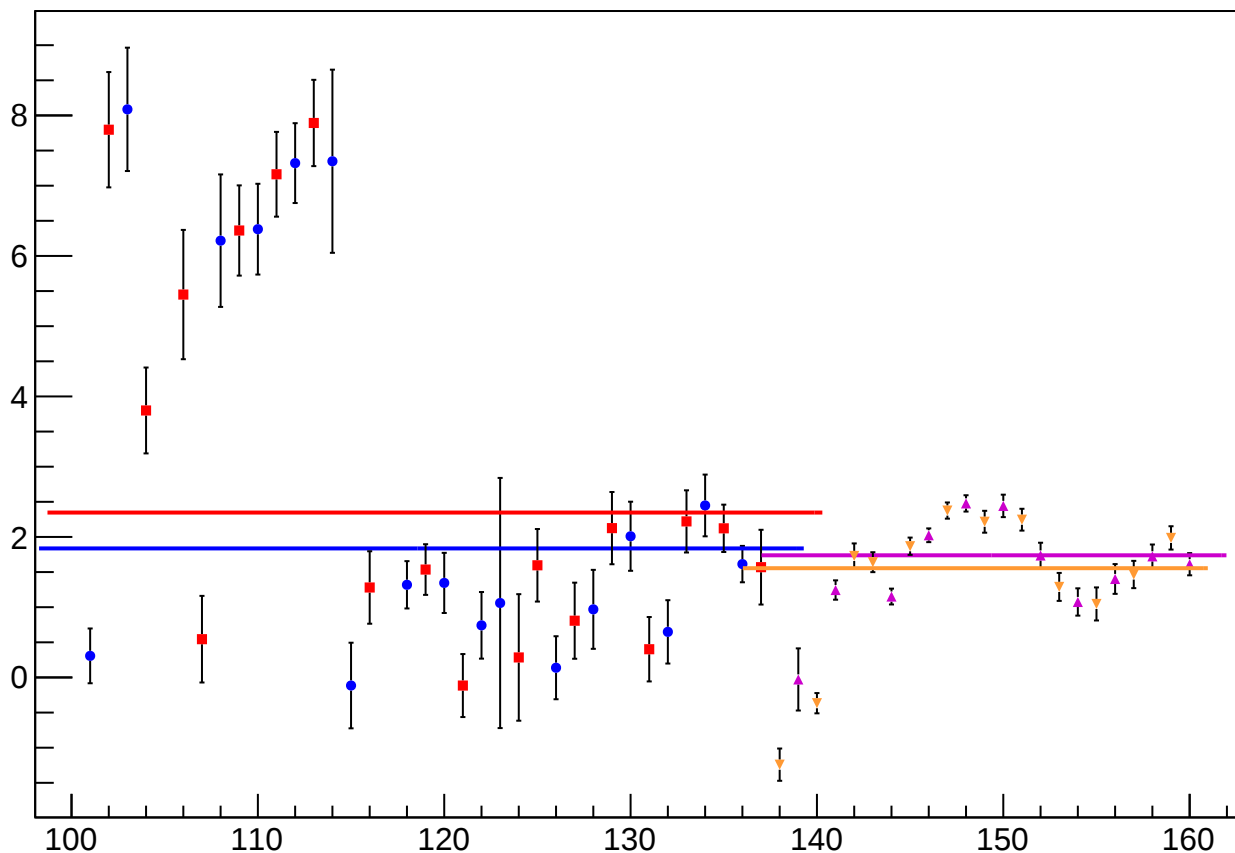
reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 5.691 $\pm$ 0.066  $\chi^2$ /NDF:1337.7/11  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 4.832 $\pm$ 0.066  $\chi^2$ /NDF:224.4/10

Left: 5.258 $\pm$ 0.047  $\chi^2$ /NDF: 1646.7/22  
 Right: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 In: 4.832 $\pm$ 0.066  $\chi^2$ /NDF:224.4/10  
 Out: 5.691 $\pm$ 0.066  $\chi^2$ /NDF:1337.7/11  
 All: 5.258 $\pm$ 0.047  $\chi^2$ /NDF: 1646.7/22

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.837 \pm 0.116$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $1.555 \pm 0.046$   $\chi^2/\text{NDF}$ : 435.5/11

Right Out:  $2.347 \pm 0.123$   $\chi^2/\text{NDF}$ : 329.8/17

Left In:  $1.739 \pm 0.044$   $\chi^2/\text{NDF}$ : 139.1/10

Left:  $1.650 \pm 0.032$   $\chi^2/\text{NDF}$ : 582.9/22

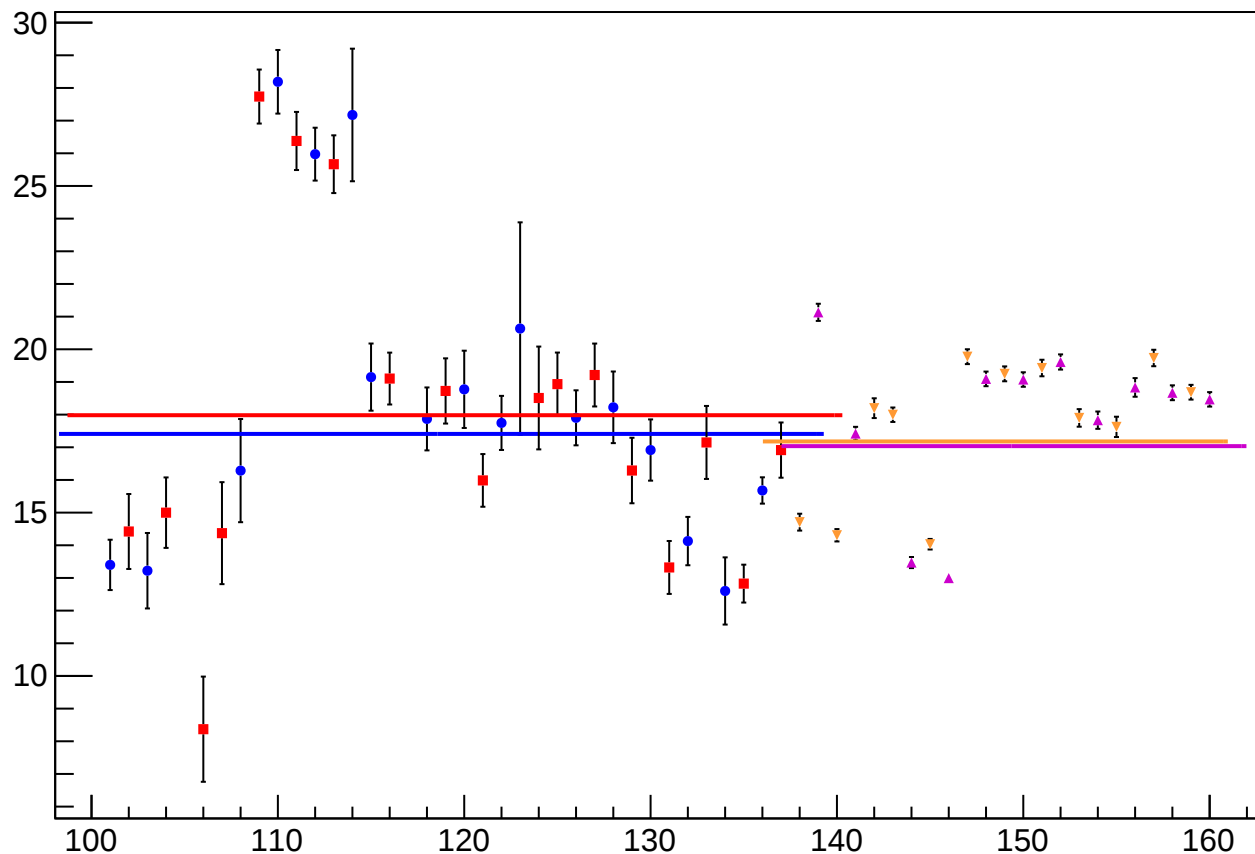
Right:  $2.078 \pm 0.084$   $\chi^2/\text{NDF}$ : 633.0/34

In:  $1.751 \pm 0.041$   $\chi^2/\text{NDF}$ : 433.8/27

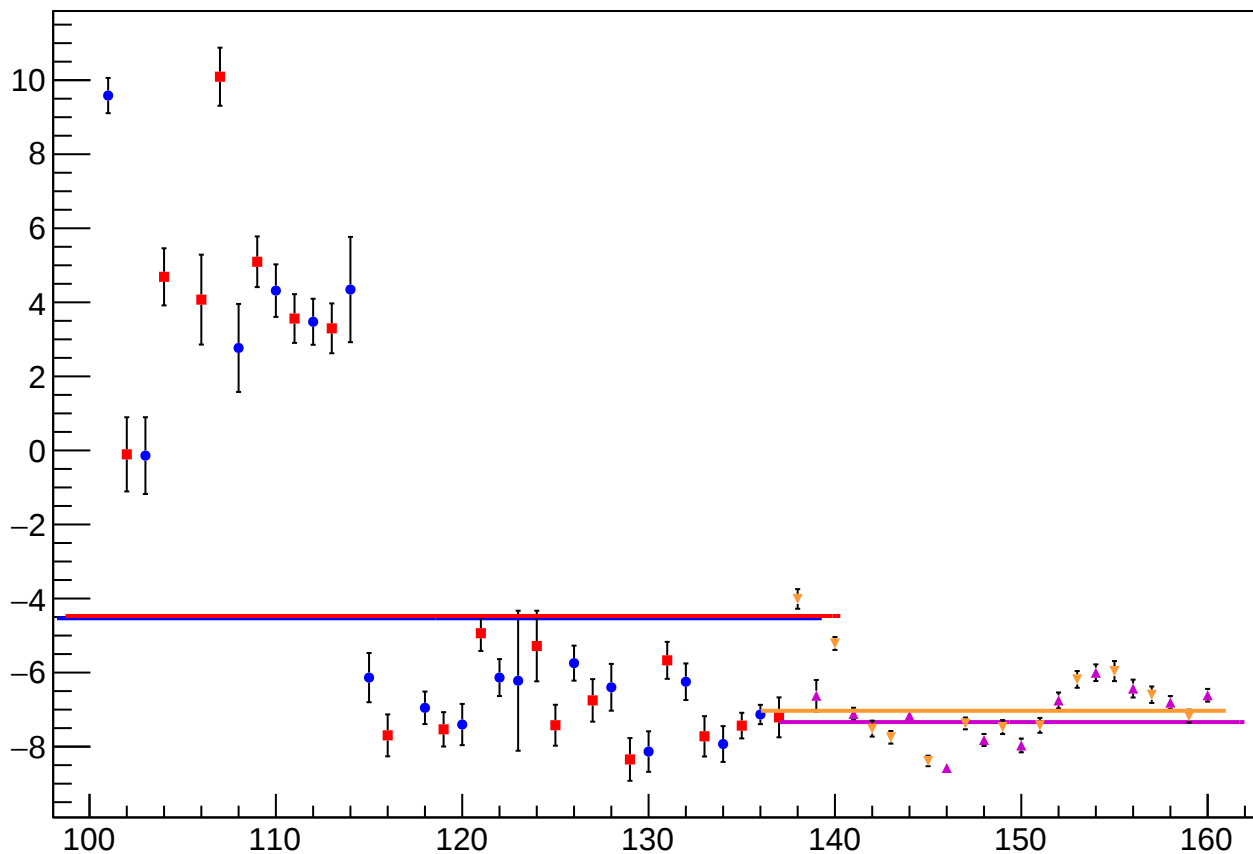
Out:  $1.652 \pm 0.043$   $\chi^2/\text{NDF}$ : 801.9/29

All:  $1.703 \pm 0.030$   $\chi^2/\text{NDF}$ : 1238.5/57

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-4.533 \pm 0.130$   $\chi^2/\text{NDF}$ : 1588.4/16

Left Out:  $-7.032 \pm 0.055$   $\chi^2/\text{NDF}$ : 399.5/11

Right Out:  $-4.471 \pm 0.137$   $\chi^2/\text{NDF}$ : 1339.3/17

Left In:  $-7.337 \pm 0.053$   $\chi^2/\text{NDF}$ : 209.3/10

Left:  $-7.189 \pm 0.038$   $\chi^2/\text{NDF}$ : 624.7/22

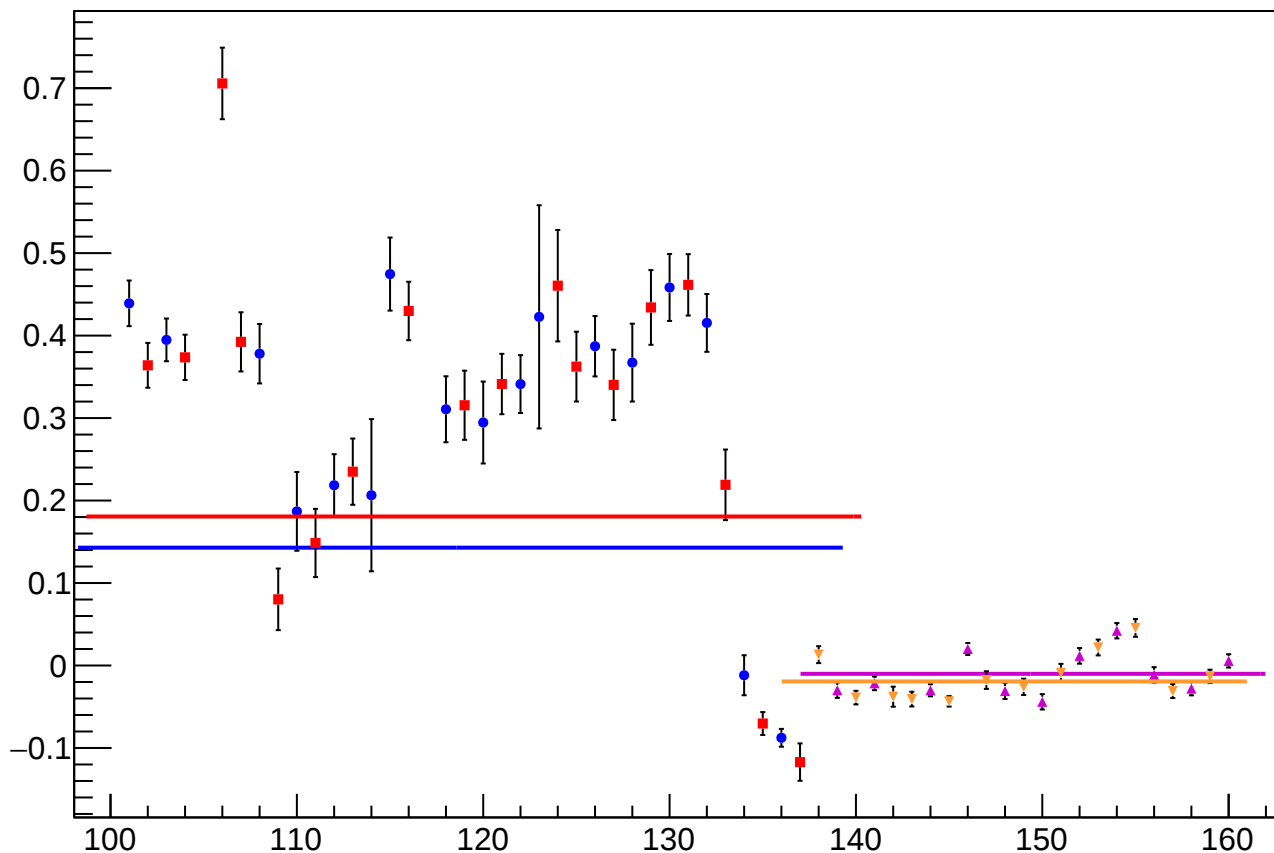
Right:  $-4.504 \pm 0.094$   $\chi^2/\text{NDF}$ : 2927.8/34

In:  $-6.933 \pm 0.049$   $\chi^2/\text{NDF}$ : 2197.9/27

Out:  $-6.676 \pm 0.051$   $\chi^2/\text{NDF}$ : 2040.0/29

All:  $-6.809 \pm 0.035$   $\chi^2/\text{NDF}$ : 4251.0/57

reg\_asym\_sam\_1357\_2468\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.143 \pm 0.007$   $\chi^2/\text{NDF}: 1058.9/16$

Left Out:  $-0.019 \pm 0.003$   $\chi^2/\text{NDF}: 96.6/11$

Right Out:  $0.181 \pm 0.007$   $\chi^2/\text{NDF}: 1003.7/17$

Left In:  $-0.010 \pm 0.003$   $\chi^2/\text{NDF}: 94.5/10$

Left:  $-0.015 \pm 0.002$   $\chi^2/\text{NDF}: 197.4/22$

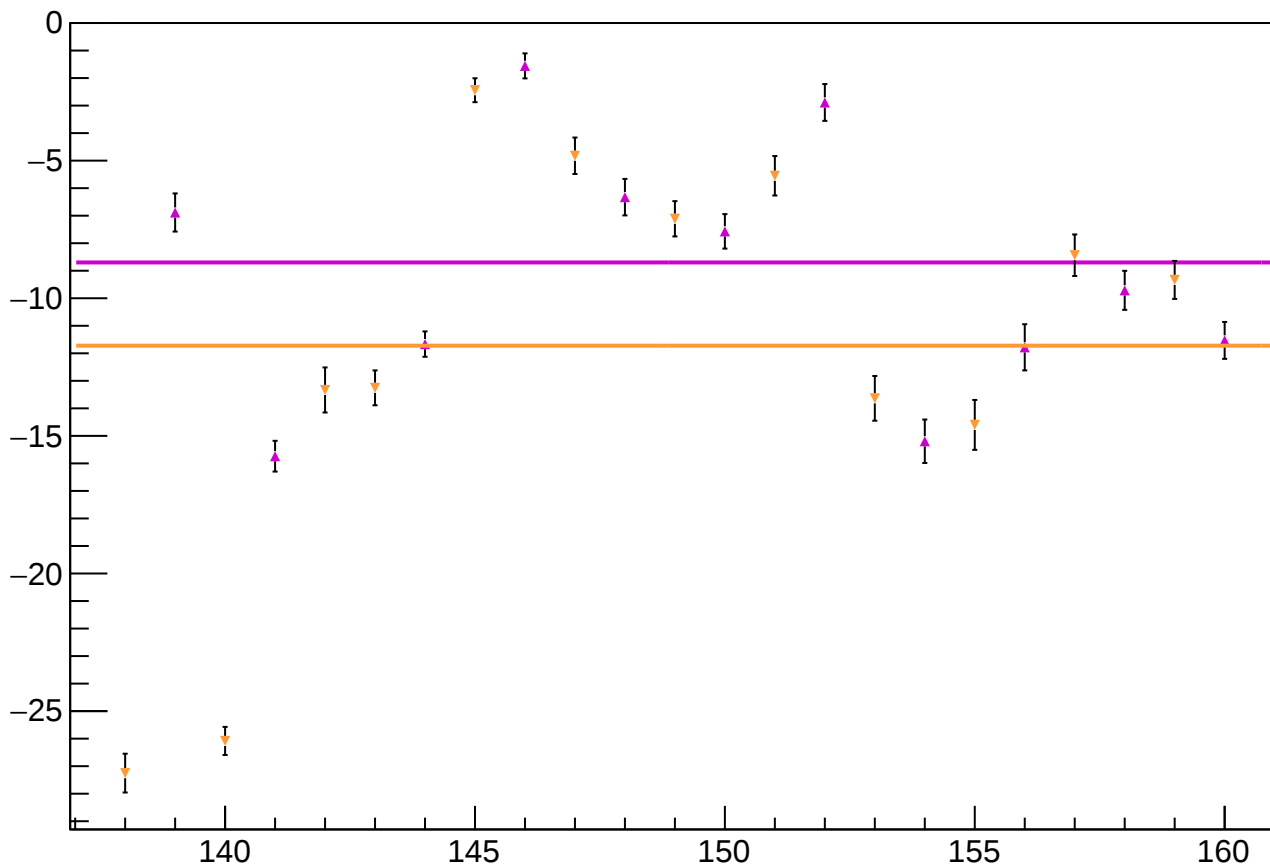
Right:  $0.161 \pm 0.005$   $\chi^2/\text{NDF}: 2076.2/34$

In:  $0.008 \pm 0.002$   $\chi^2/\text{NDF}: 1568.0/27$

Out:  $0.003 \pm 0.002$   $\chi^2/\text{NDF}: 1747.9/29$

All:  $0.006 \pm 0.002$   $\chi^2/\text{NDF}: 3317.9/57$

reg\_asym\_sam\_12345678\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



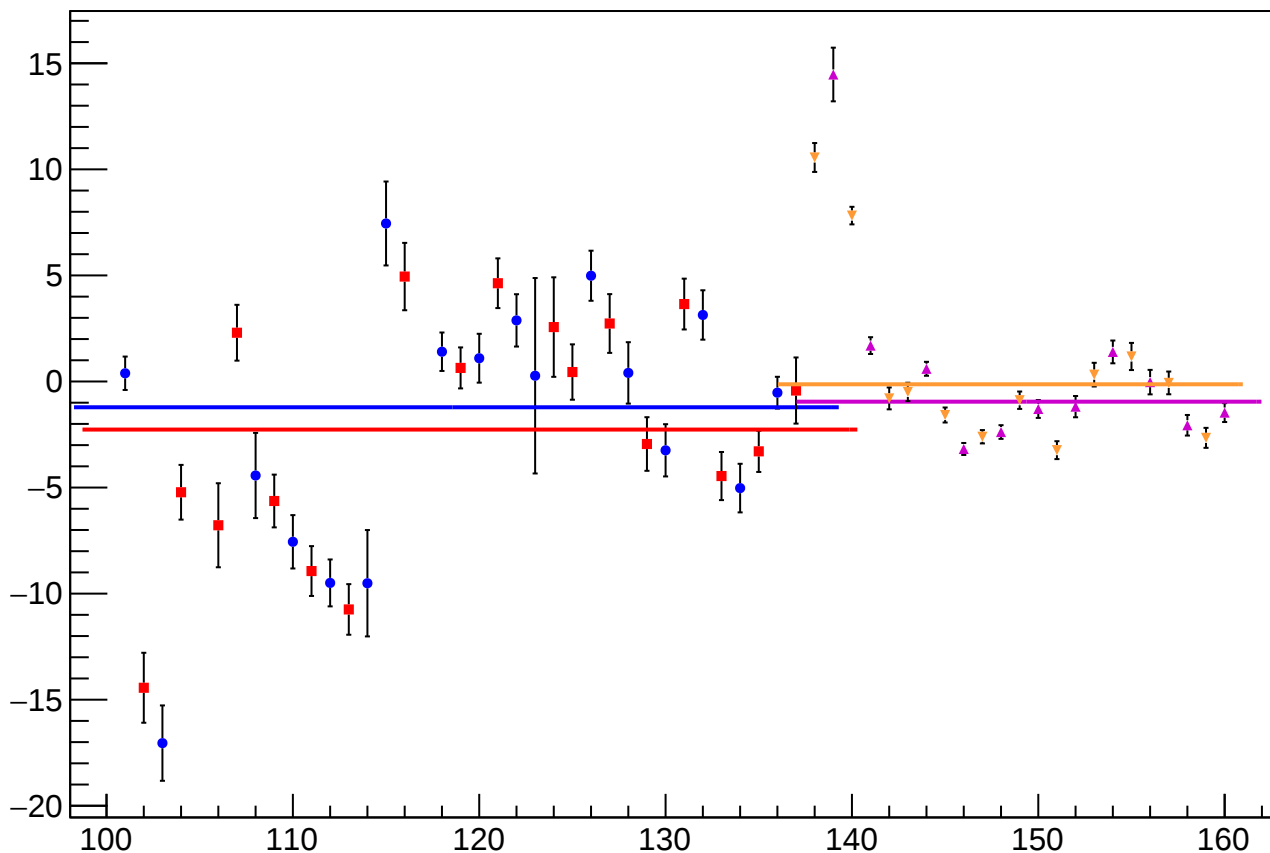
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -11.723+/-0.188  $\chi^2/\text{NDF}$ :2024.5/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -8.699+/-0.185  $\chi^2/\text{NDF}$ :646.9/10

Left: -10.191+/-0.132  $\chi^2/\text{NDF}$ : 2802.8/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

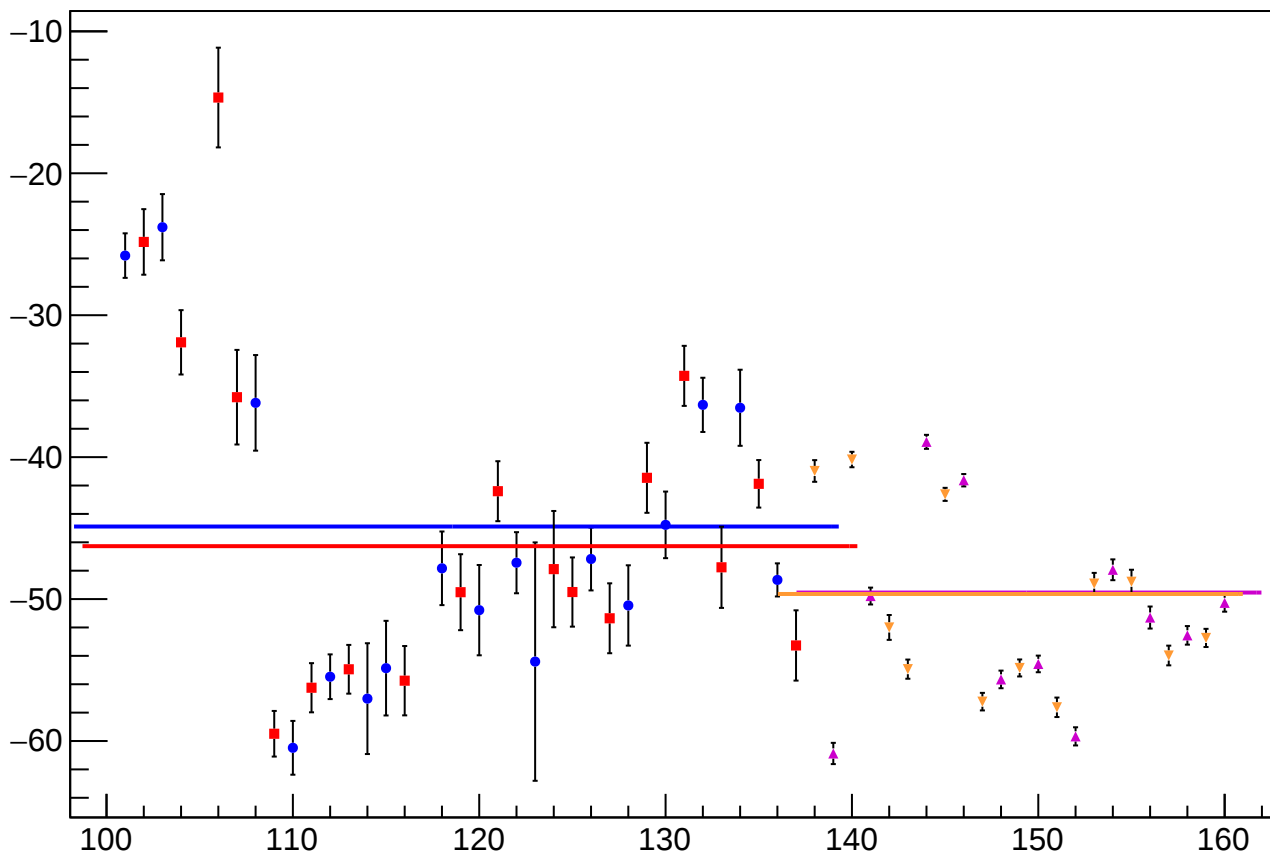
In: -8.699+/-0.185  $\chi^2/\text{NDF}$ :646.9/10  
 Out: -11.723+/-0.188  $\chi^2/\text{NDF}$ :2024.5/11

All: -10.191+/-0.132  $\chi^2/\text{NDF}$ : 2802.8/22

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-44.888 \pm 0.523$   $\chi^2/\text{NDF}$ : 420.4/16

Left Out:  $-49.641 \pm 0.187$   $\chi^2/\text{NDF}$ : 1159.3/11

Right Out:  $-46.272 \pm 0.530$   $\chi^2/\text{NDF}$ : 420.5/17

Left In:  $-49.540 \pm 0.182$   $\chi^2/\text{NDF}$ : 1474.6/10

Left:  $-49.589 \pm 0.130$   $\chi^2/\text{NDF}$ : 2634.1/22

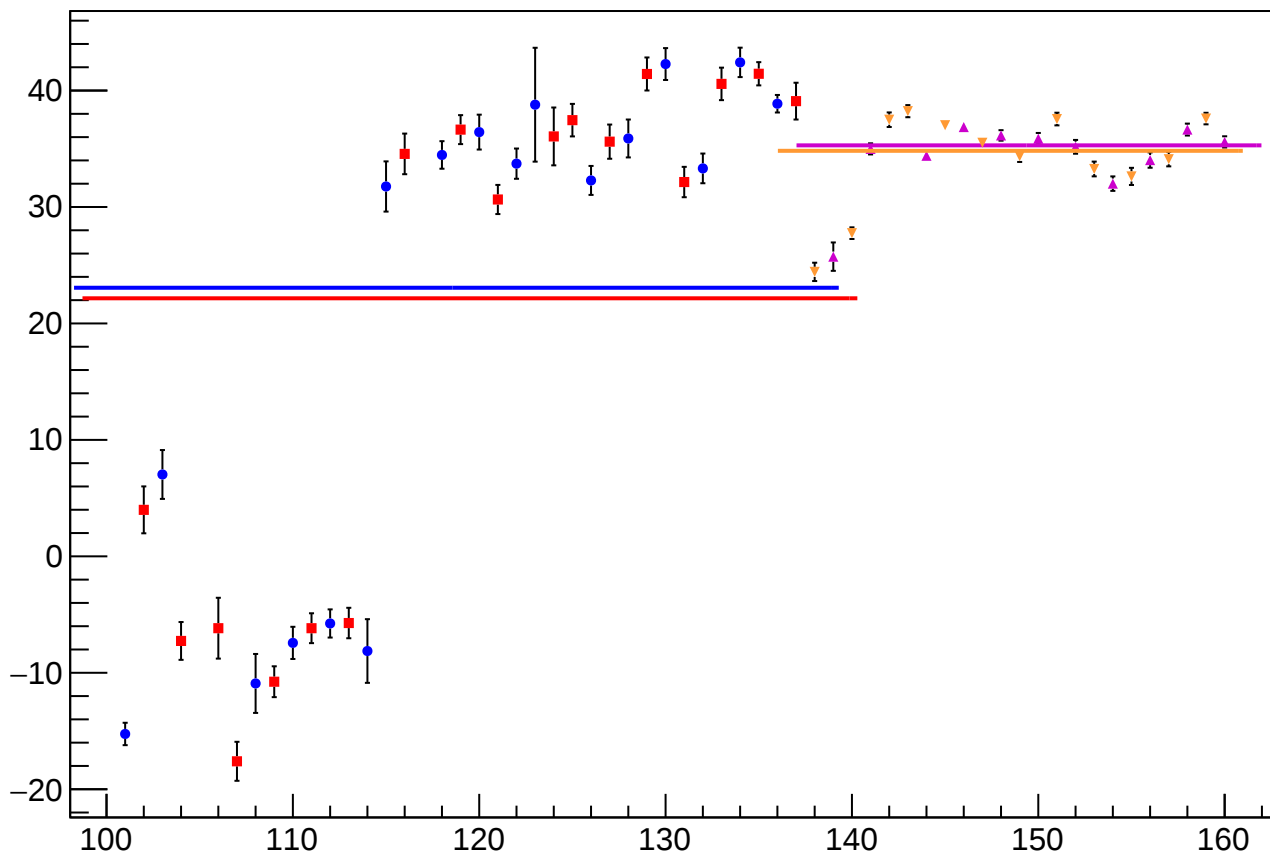
Right:  $-45.572 \pm 0.372$   $\chi^2/\text{NDF}$ : 844.4/34

In:  $-49.040 \pm 0.172$   $\chi^2/\text{NDF}$ : 1965.5/27

Out:  $-49.266 \pm 0.177$   $\chi^2/\text{NDF}$ : 1615.8/29

All:  $-49.150 \pm 0.123$   $\chi^2/\text{NDF}$ : 3582.2/57

reg\_asym\_sam\_12345678\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 23.066 $\pm$ 0.327  $\chi^2$ /NDF: 4333.5/16

Left Out: 34.825 $\pm$ 0.155  $\chi^2$ /NDF:539.8/11

Right Out: 22.159 $\pm$ 0.340  $\chi^2$ /NDF: 4025.5/17

Left In: 35.293 $\pm$ 0.150  $\chi^2$ /NDF:130.7/10

Left: 35.067 $\pm$ 0.108  $\chi^2$ /NDF: 675.2/22

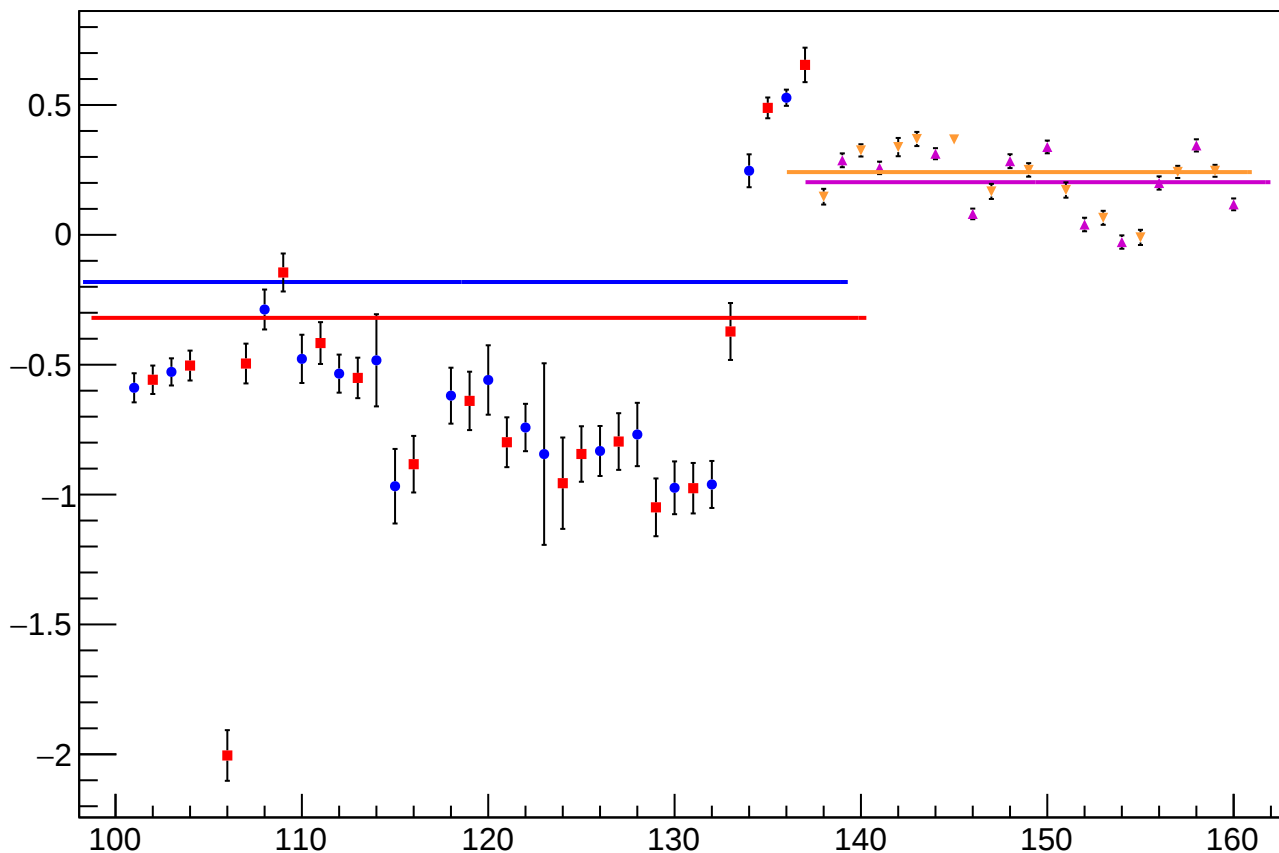
Right: 22.631 $\pm$ 0.236  $\chi^2$ /NDF: 8362.7/34

In: 33.164 $\pm$ 0.136  $\chi^2$ /NDF:5622.1/27

Out: 32.647 $\pm$ 0.141  $\chi^2$ /NDF:5714.3/29

All: 32.914 $\pm$ 0.098  $\chi^2$ /NDF: 11343.4/57

reg\_asym\_sam\_12345678\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-0.182 \pm 0.018$   $\chi^2/\text{NDF}$ : 996.9/16

Left Out:  $0.242 \pm 0.007$   $\chi^2/\text{NDF}$ : 228.7/11

Right Out:  $-0.320 \pm 0.018$   $\chi^2/\text{NDF}$ : 1177.5/17

Left In:  $0.203 \pm 0.007$   $\chi^2/\text{NDF}$ : 287.0/10

Left:  $0.222 \pm 0.005$   $\chi^2/\text{NDF}$ : 529.7/22

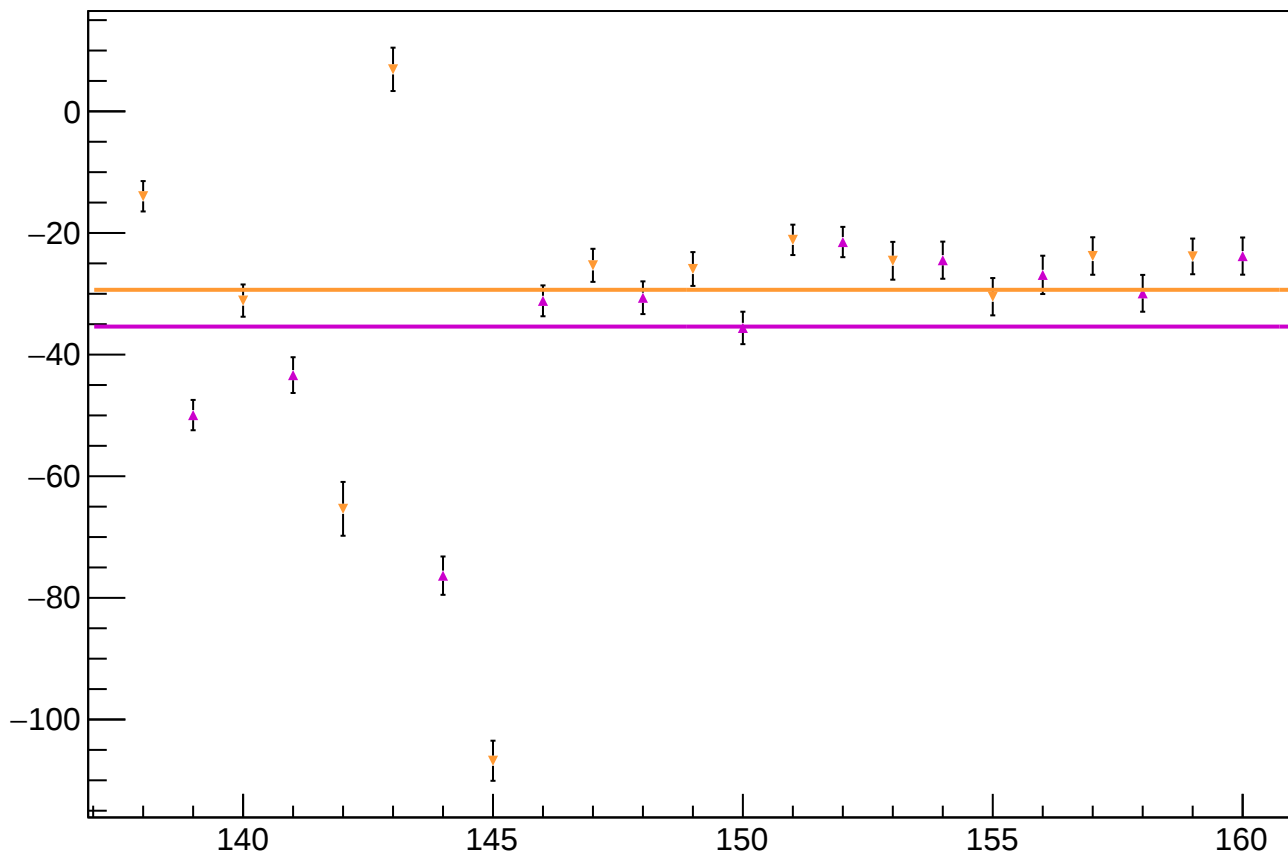
Right:  $-0.249 \pm 0.013$   $\chi^2/\text{NDF}$ : 2203.9/34

In:  $0.148 \pm 0.007$   $\chi^2/\text{NDF}$ : 1686.2/27

Out:  $0.162 \pm 0.007$   $\chi^2/\text{NDF}$ : 2220.7/29

All:  $0.155 \pm 0.005$   $\chi^2/\text{NDF}$ : 3909.0/57

reg\_asym\_atl1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -29.344+/-0.851  $\chi^2/\text{NDF}$ :783.6/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -35.391+/-0.846  $\chi^2/\text{NDF}$ :285.0/10

Left: -32.385+/-0.600  $\chi^2/\text{NDF}$ : 1094.0/22

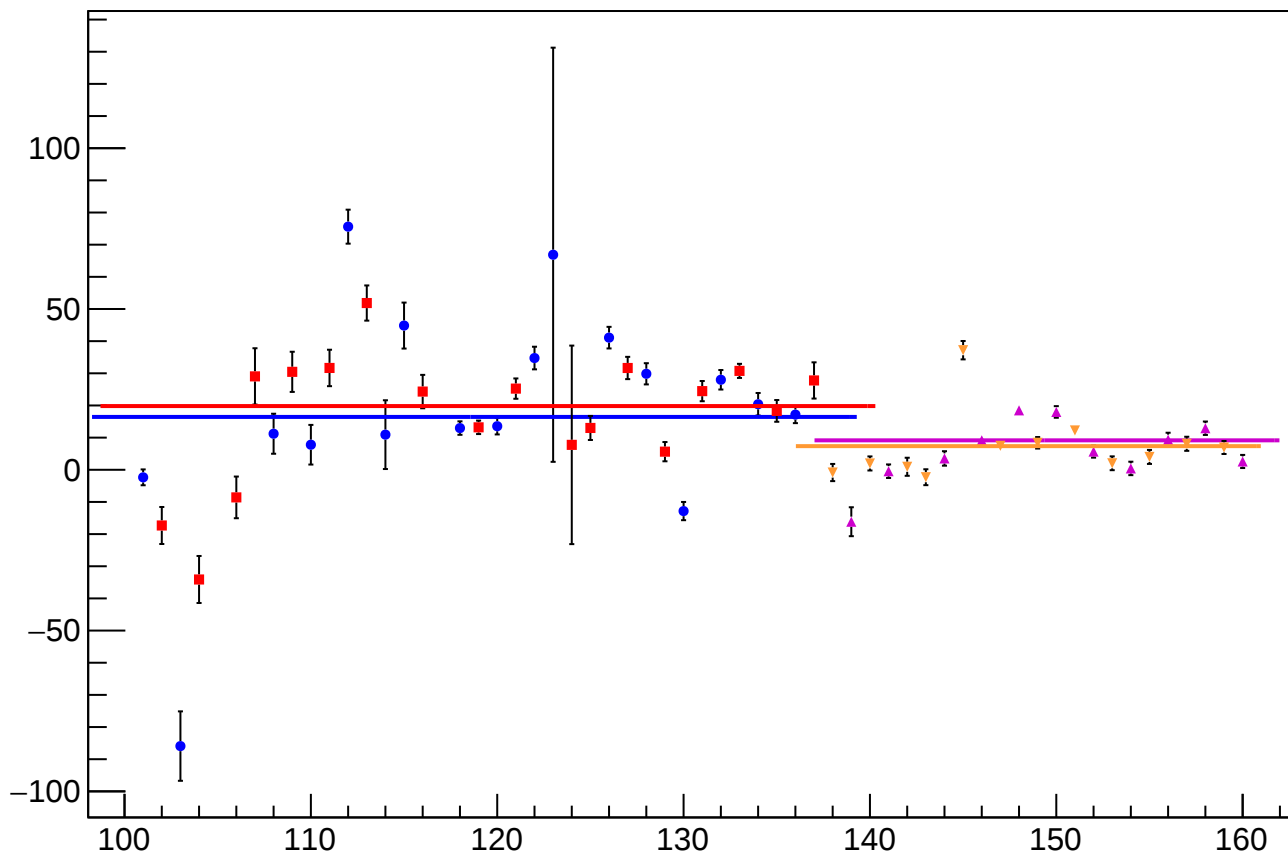
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -35.391+/-0.846  $\chi^2/\text{NDF}$ :285.0/10

Out: -29.344+/-0.851  $\chi^2/\text{NDF}$ :783.6/11

All: -32.385+/-0.600  $\chi^2/\text{NDF}$ : 1094.0/22

reg\_asym\_atl1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 16.439 $\pm$ 0.849  $\chi^2$ /NDF: 516.9/16

Left Out: 7.351 $\pm$ 0.572  $\chi^2$ /NDF:165.9/11

Right Out: 19.813 $\pm$ 0.899  $\chi^2$ /NDF: 238.5/17

Left In: 9.156 $\pm$ 0.576  $\chi^2$ /NDF:168.0/10

Left: 8.247 $\pm$ 0.406  $\chi^2$ /NDF: 338.9/22

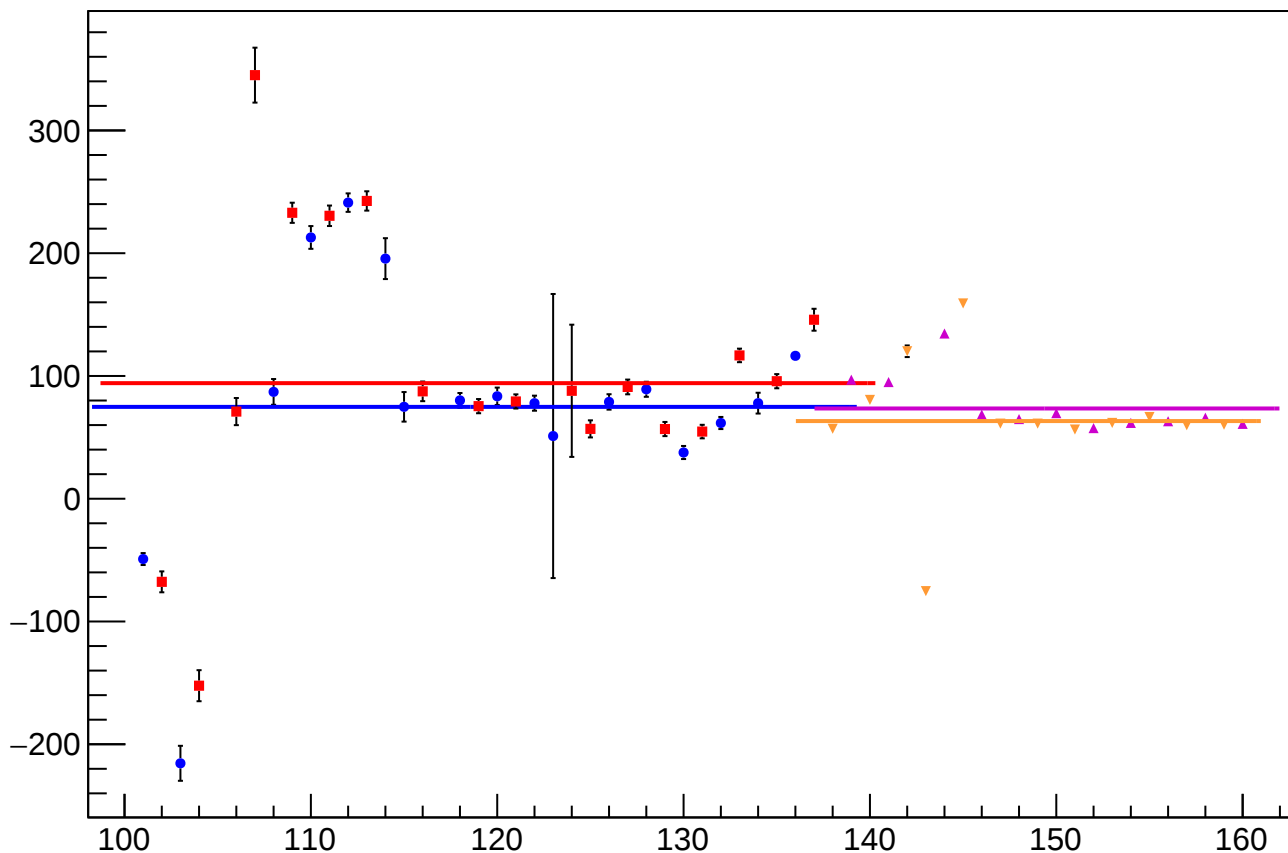
Right: 18.028 $\pm$ 0.617  $\chi^2$ /NDF: 762.9/34

In: 11.455 $\pm$ 0.477  $\chi^2$ /NDF:735.4/27

Out: 10.943 $\pm$ 0.483  $\chi^2$ /NDF:541.1/29

All: 11.202 $\pm$ 0.339  $\chi^2$ /NDF: 1277.1/57

reg\_asym\_atl1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 74.824+/-1.639  $\chi^2/\text{NDF}$ : 1996.8/16

Left Out: 63.265+/-0.833  $\chi^2/\text{NDF}$ : 2311.4/11

Right Out: 94.153+/-1.720  $\chi^2/\text{NDF}$ : 1969.2/17

Left In: 73.516+/-0.821  $\chi^2/\text{NDF}$ : 570.7/10

Left: 68.468+/-0.585  $\chi^2/\text{NDF}$ : 2958.8/22

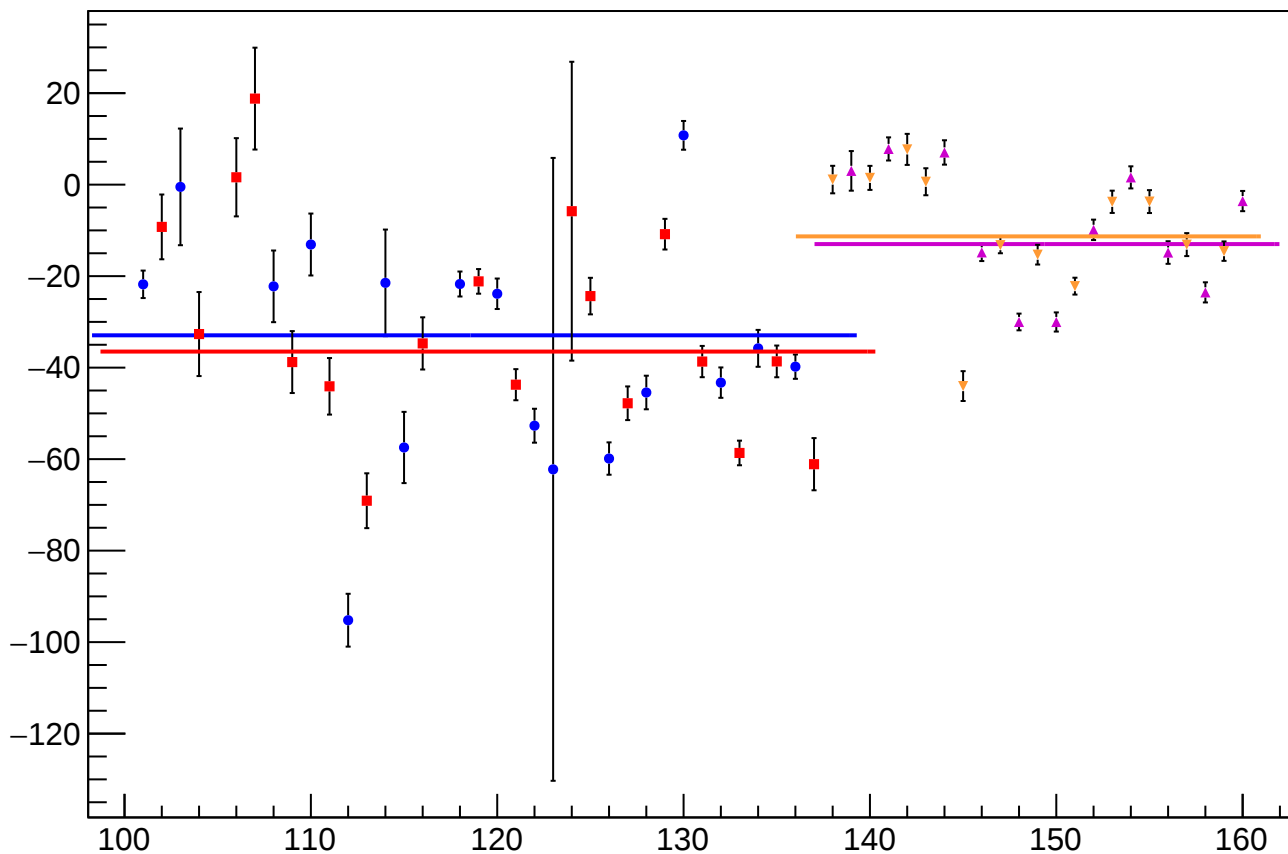
Right: 84.020+/-1.186  $\chi^2/\text{NDF}$ : 4032.2/34

In: 73.778+/-0.734  $\chi^2/\text{NDF}$ : 2568.0/27

Out: 69.138+/-0.750  $\chi^2/\text{NDF}$ : 4541.7/29

All: 71.508+/-0.525  $\chi^2/\text{NDF}$ : 7129.3/57

reg\_asym\_atl1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-32.935 \pm 0.973$   $\chi^2/\text{NDF}: 490.7/16$

Left Out:  $-11.311 \pm 0.692$   $\chi^2/\text{NDF}: 250.3/11$

Right Out:  $-36.488 \pm 1.027$   $\chi^2/\text{NDF}: 293.2/17$

Left In:  $-12.993 \pm 0.690$   $\chi^2/\text{NDF}: 371.8/10$

Left:  $-12.155 \pm 0.489$   $\chi^2/\text{NDF}: 625.1/22$

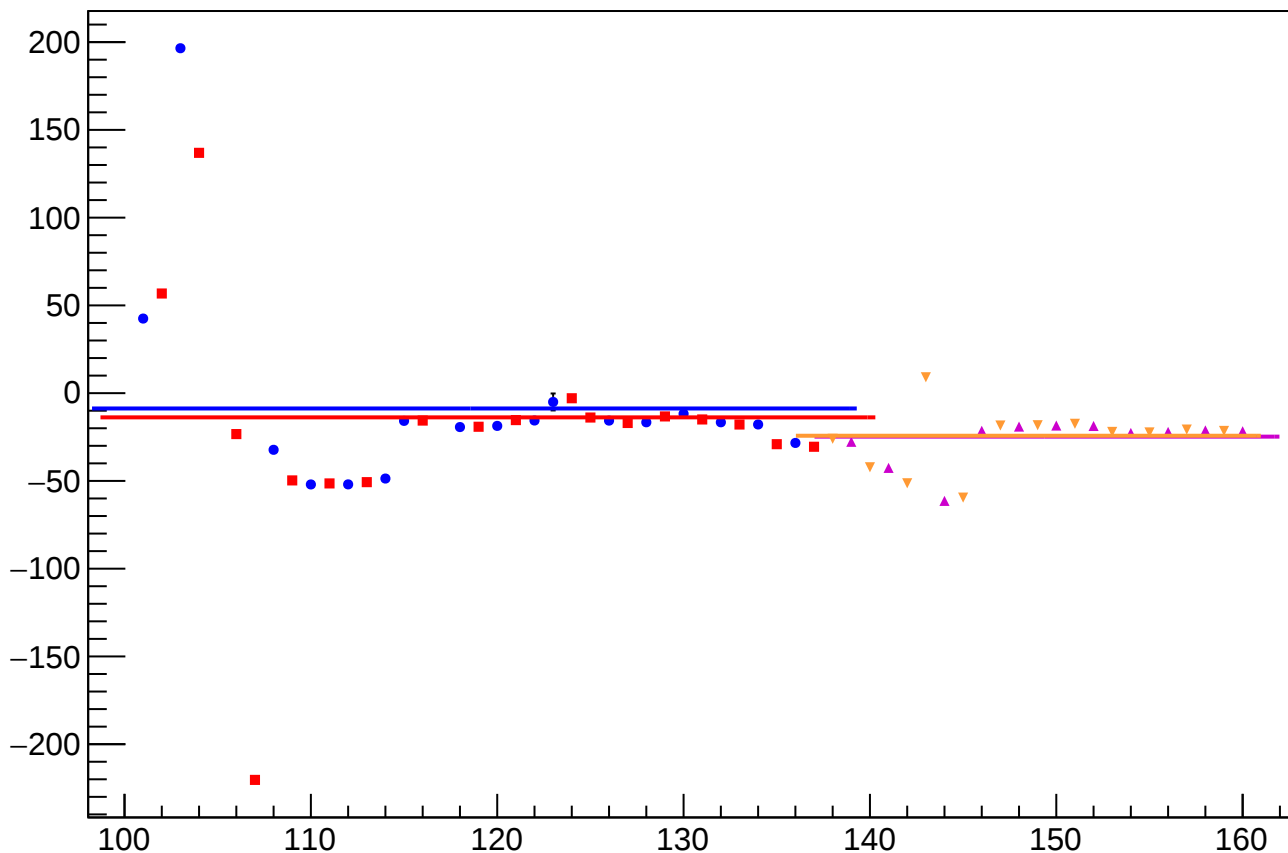
Right:  $-34.617 \pm 0.706$   $\chi^2/\text{NDF}: 790.3/34$

In:  $-19.657 \pm 0.563$   $\chi^2/\text{NDF}: 1142.0/27$

Out:  $-19.182 \pm 0.574$   $\chi^2/\text{NDF}: 956.9/29$

All:  $-19.425 \pm 0.402$   $\chi^2/\text{NDF}: 2099.3/57$

reg\_asym\_atl1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-8.723 \pm 0.059$   $\chi^2/\text{NDF}$ : 575838.7/16

Left Out:  $-24.261 \pm 0.033$   $\chi^2/\text{NDF}$ : 170065.7/11

Right Out:  $-13.791 \pm 0.062$   $\chi^2/\text{NDF}$ : 549380.2/17

Left In:  $-24.771 \pm 0.032$   $\chi^2/\text{NDF}$ : 96936.6/10

Left:  $-24.523 \pm 0.023$   $\chi^2/\text{NDF}$ : 267127.1/22

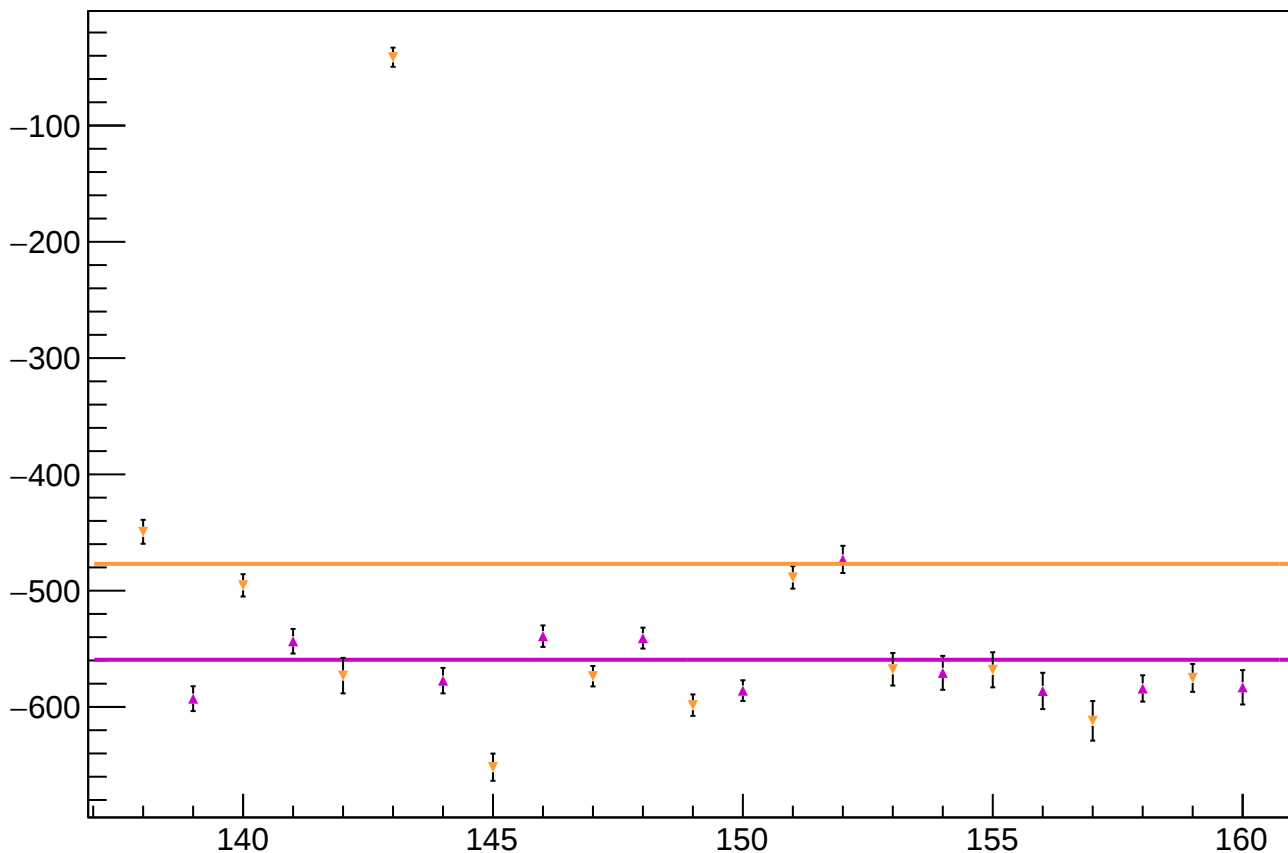
Right:  $-11.121 \pm 0.043$   $\chi^2/\text{NDF}$ : 1128724.7/34

In:  $-21.131 \pm 0.028$   $\chi^2/\text{NDF}$ : 730236.1/27

Out:  $-21.990 \pm 0.029$   $\chi^2/\text{NDF}$ : 741696.1/29

All:  $-21.547 \pm 0.020$   $\chi^2/\text{NDF}$ : 1472387.1/57

reg\_asym\_atl2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -476.931+/-3.133  $\chi^2/\text{NDF}$ :3583.1/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -559.418+/-3.309  $\chi^2/\text{NDF}$ :98.1/10

Left: -515.925+/-2.275  $\chi^2/\text{NDF}$ : 4009.0/22

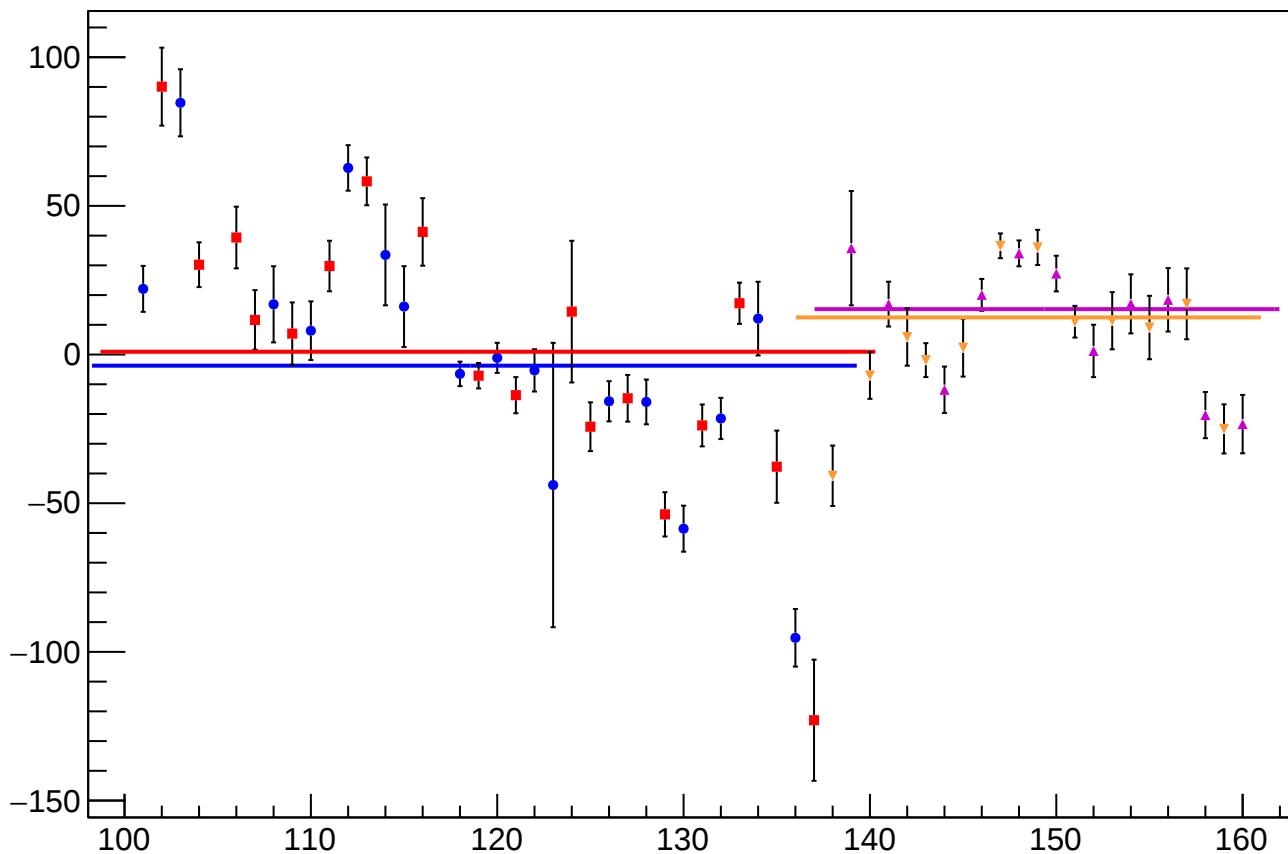
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -559.418+/-3.309  $\chi^2/\text{NDF}$ :98.1/10

Out: -476.931+/-3.133  $\chi^2/\text{NDF}$ :3583.1/11

All: -515.925+/-2.275  $\chi^2/\text{NDF}$ : 4009.0/22

reg\_asym\_atl2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-3.743 \pm 1.892$   $\chi^2/\text{NDF}$ : 314.1/16

Left Out:  $12.489 \pm 2.038$   $\chi^2/\text{NDF}$ : 111.8/11

Right Out:  $0.948 \pm 1.918$   $\chi^2/\text{NDF}$ : 293.7/17

Left In:  $15.275 \pm 2.177$   $\chi^2/\text{NDF}$ : 75.8/10

Left:  $13.790 \pm 1.488$   $\chi^2/\text{NDF}$ : 188.5/22

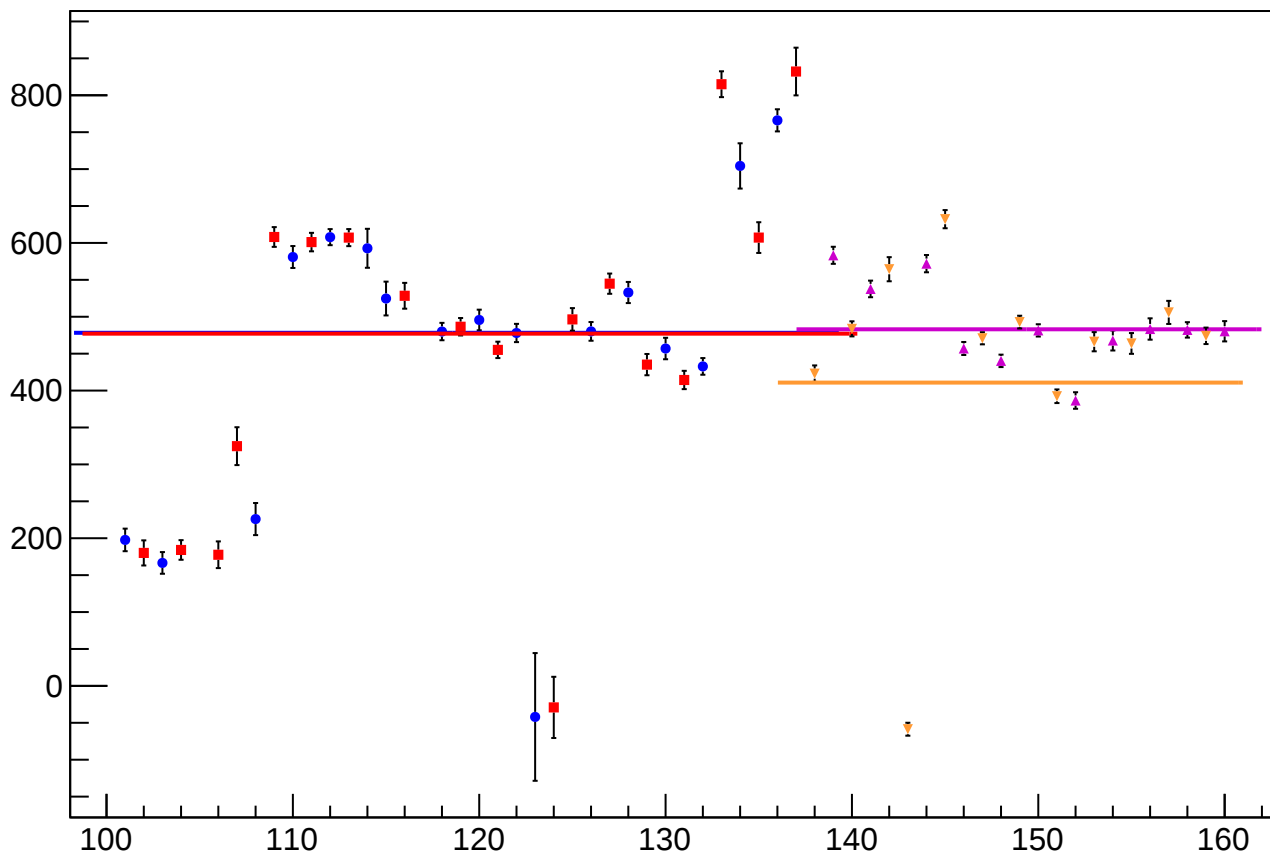
Right:  $-1.430 \pm 1.347$   $\chi^2/\text{NDF}$ : 610.8/34

In:  $4.438 \pm 1.428$   $\chi^2/\text{NDF}$ : 433.4/27

Out:  $6.369 \pm 1.397$   $\chi^2/\text{NDF}$ : 422.5/29

All:  $5.425 \pm 0.999$   $\chi^2/\text{NDF}$ : 856.9/57

reg\_asym\_atl2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 478.265 $\pm$ 3.638  $\chi^2$ /NDF: 1627.9/16

Left Out: 410.816 $\pm$ 3.100  $\chi^2$ /NDF: 3576.9/11

Right Out: 477.101 $\pm$ 3.541  $\chi^2$ /NDF: 2175.8/17

Left In: 483.005 $\pm$ 3.215  $\chi^2$ /NDF: 266.3/10

Left: 445.596 $\pm$ 2.231  $\chi^2$ /NDF: 4104.5/22

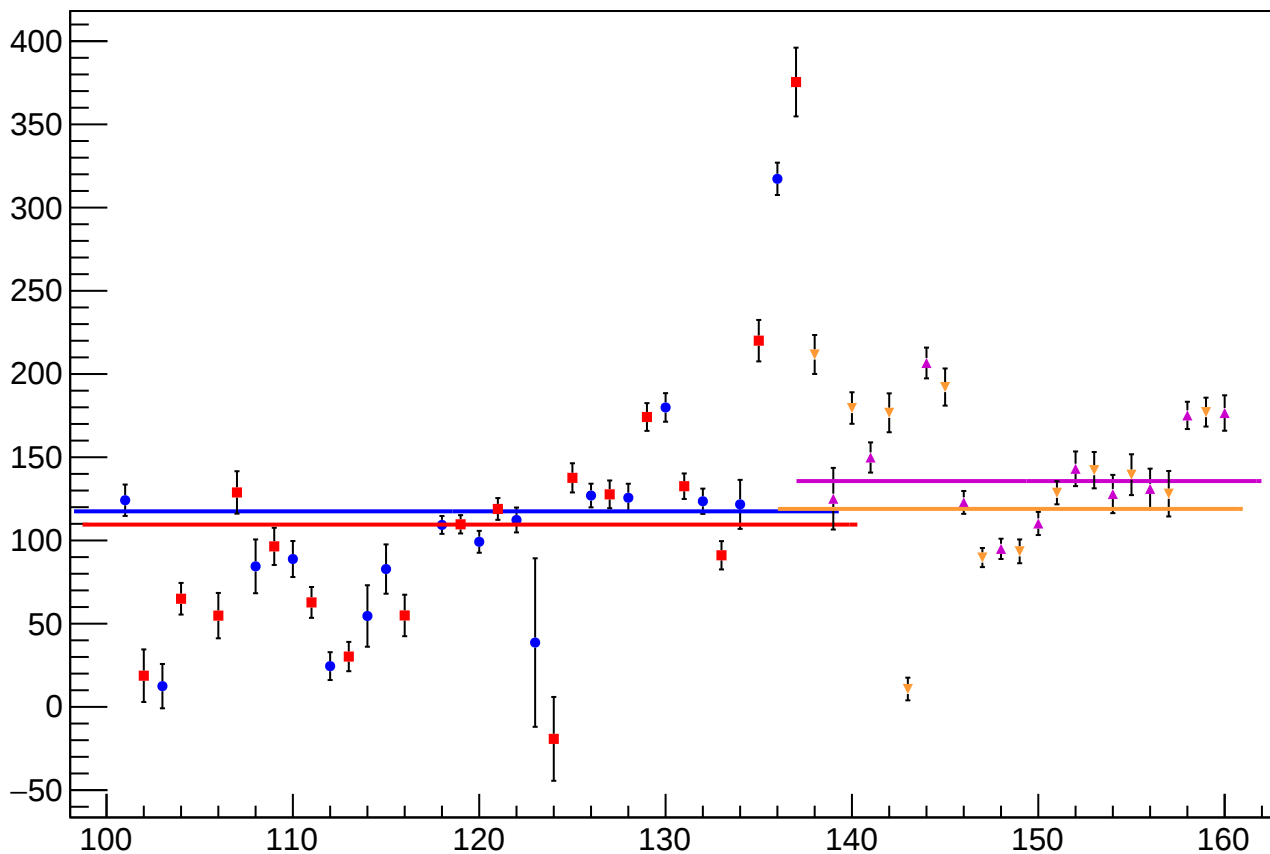
Right: 477.667 $\pm$ 2.538  $\chi^2$ /NDF: 3803.8/34

In: 480.926 $\pm$ 2.409  $\chi^2$ /NDF: 1895.2/27

Out: 439.571 $\pm$ 2.333  $\chi^2$ /NDF: 5951.1/29

All: 459.581 $\pm$ 1.676  $\chi^2$ /NDF: 7998.4/57

reg\_asym\_atl2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 117.502 $\pm$ 2.198  $\chi^2$ /NDF: 705.9/16

Left Out: 118.967 $\pm$ 2.503  $\chi^2$ /NDF: 516.5/11

Right Out: 109.536 $\pm$ 2.208  $\chi^2$ /NDF: 562.2/17

Left In: 135.689 $\pm$ 2.645  $\chi^2$ /NDF: 162.2/10

Left: 126.866 $\pm$ 1.818  $\chi^2$ /NDF: 699.9/22

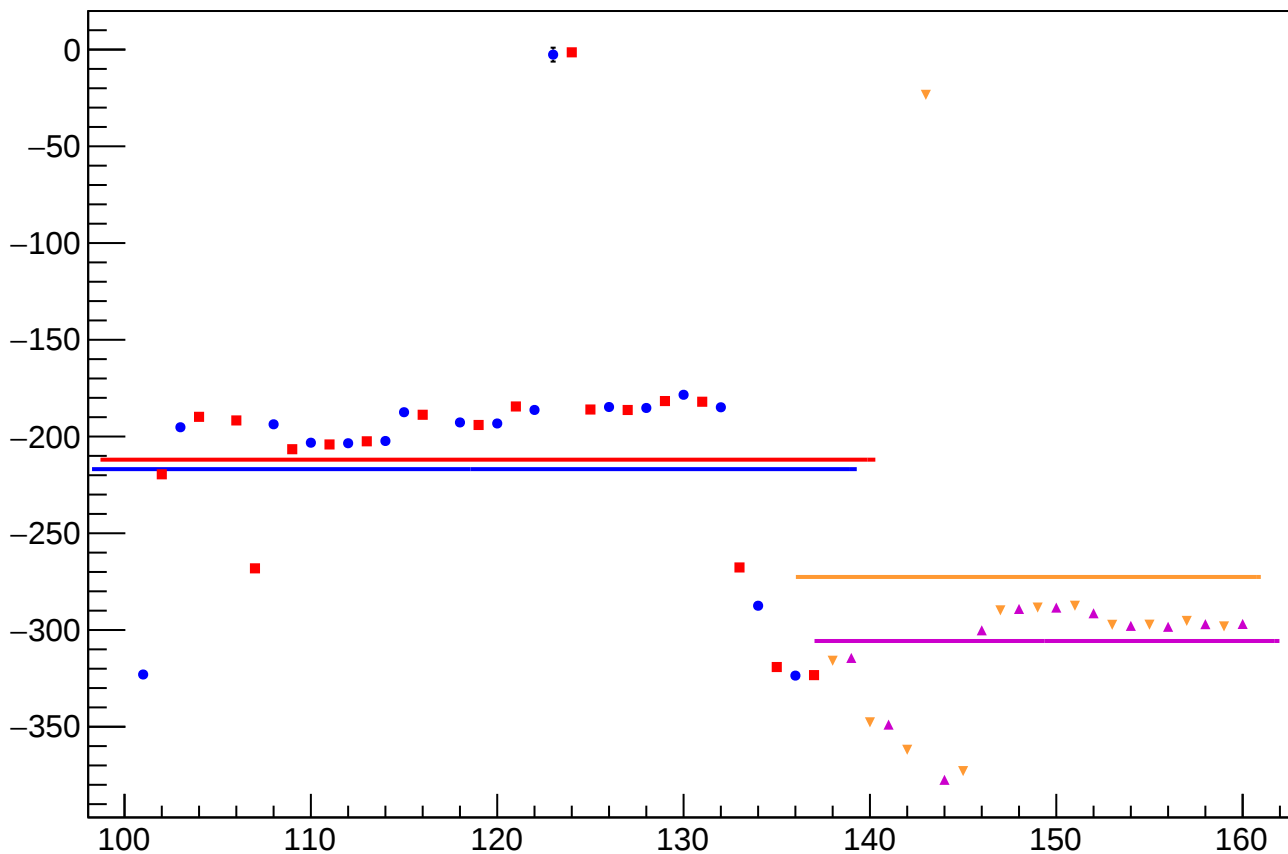
Right: 113.538 $\pm$ 1.558  $\chi^2$ /NDF: 1274.7/34

In: 124.928 $\pm$ 1.690  $\chi^2$ /NDF: 896.1/27

Out: 113.664 $\pm$ 1.656  $\chi^2$ /NDF: 1086.7/29

All: 119.180 $\pm$ 1.183  $\chi^2$ /NDF: 2005.5/57

reg\_asym\_atl2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-216.855 \pm 0.136$   $\chi^2/\text{NDF}: 146927.1/16$

Left Out:  $-272.581 \pm 0.126$   $\chi^2/\text{NDF}: 615925.6/11$

Right Out:  $-211.961 \pm 0.131$   $\chi^2/\text{NDF}: 112091.8/17$

Left In:  $-305.675 \pm 0.128$   $\chi^2/\text{NDF}: 36126.8/10$

Left:  $-288.840 \pm 0.090$   $\chi^2/\text{NDF}: 686161.7/22$

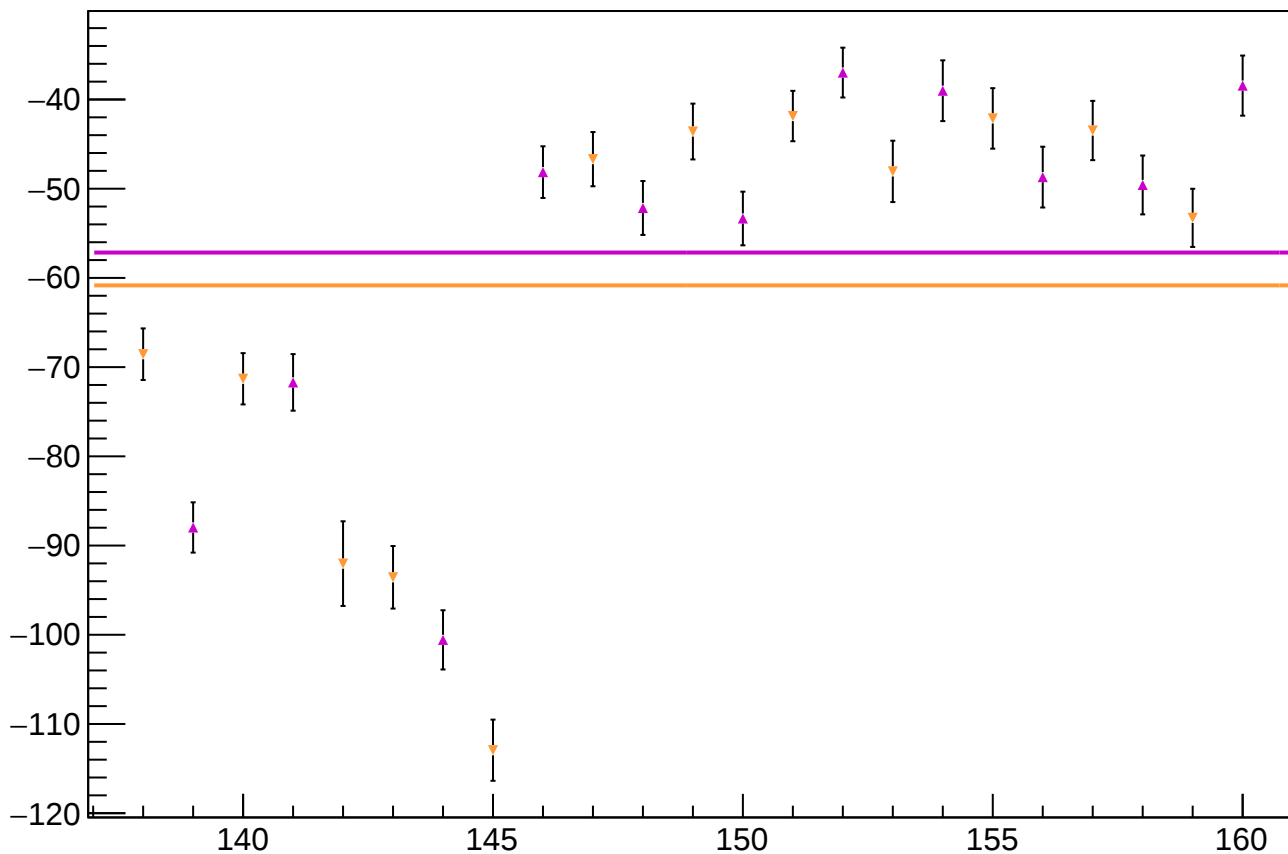
Right:  $-214.313 \pm 0.094$   $\chi^2/\text{NDF}: 259693.1/34$

In:  $-263.974 \pm 0.093$   $\chi^2/\text{NDF}: 409801.3/27$

Out:  $-243.467 \pm 0.091$   $\chi^2/\text{NDF}: 839893.6/29$

All:  $-253.437 \pm 0.065$   $\chi^2/\text{NDF}: 1274633.3/57$

reg\_asym\_atr1\_diff\_bpm1X\_slope vs Slug, Sign Corrected



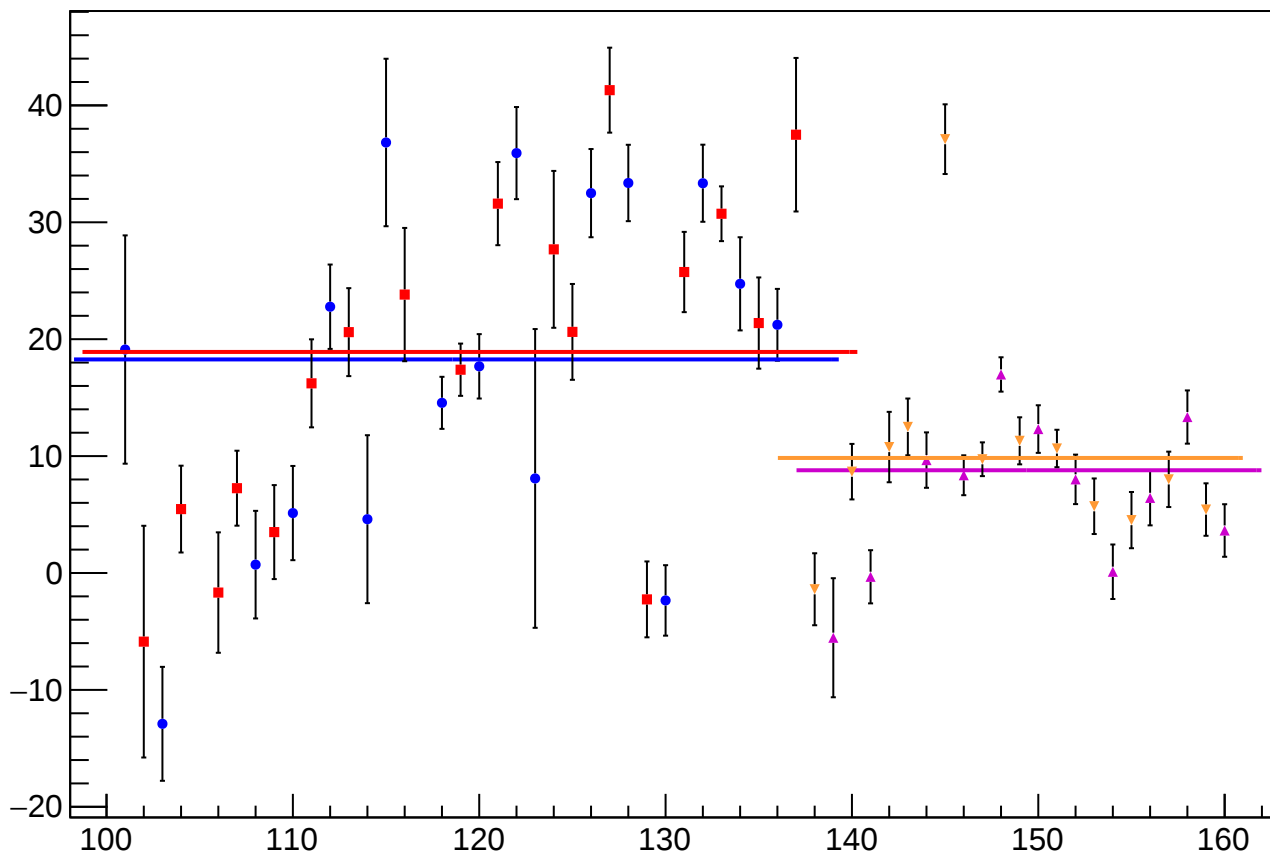
Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -60.838+/-0.935  $\chi^2/\text{NDF}$ :555.9/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -57.157+/-0.938  $\chi^2/\text{NDF}$ :448.5/10

Left: -59.003+/-0.662  $\chi^2/\text{NDF}$ : 1012.1/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -57.157+/-0.938  $\chi^2/\text{NDF}$ :448.5/10  
 Out: -60.838+/-0.935  $\chi^2/\text{NDF}$ :555.9/11

All: -59.003+/-0.662  $\chi^2/\text{NDF}$ : 1012.1/22

reg\_asym\_atr1\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $18.269 \pm 0.907$   $\chi^2/\text{NDF}$ : 208.3/16

Left Out:  $9.841 \pm 0.630$   $\chi^2/\text{NDF}$ : 111.7/11

Right Out:  $18.909 \pm 0.864$   $\chi^2/\text{NDF}$ : 198.1/17

Left In:  $8.788 \pm 0.641$   $\chi^2/\text{NDF}$ : 82.5/10

Left:  $9.323 \pm 0.449$   $\chi^2/\text{NDF}$ : 195.6/22

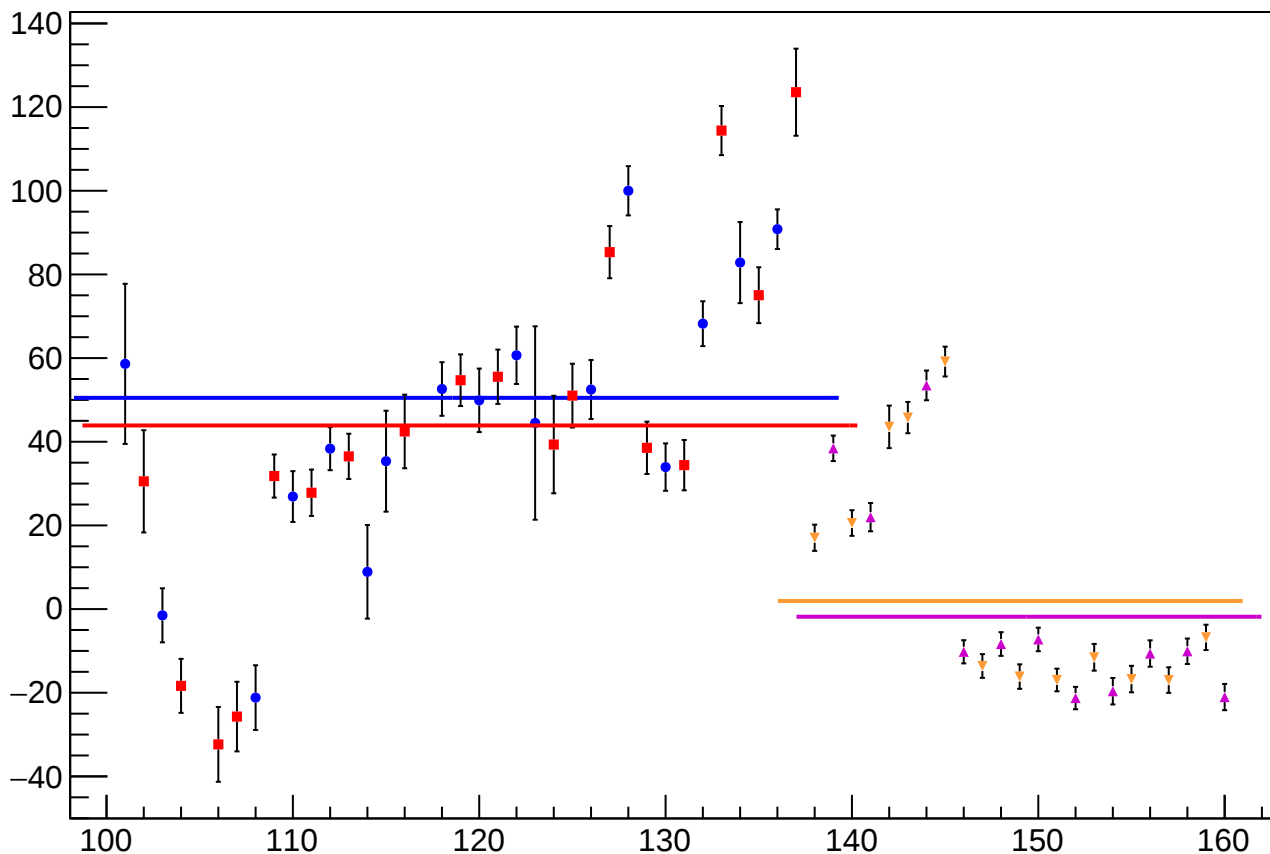
Right:  $18.605 \pm 0.626$   $\chi^2/\text{NDF}$ : 406.7/34

In:  $11.945 \pm 0.523$   $\chi^2/\text{NDF}$ : 363.8/27

Out:  $12.989 \pm 0.509$   $\chi^2/\text{NDF}$ : 381.6/29

All:  $12.481 \pm 0.365$   $\chi^2/\text{NDF}$ : 747.4/57

reg\_asym\_atr1\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $50.497 \pm 1.671$   $\chi^2/\text{NDF}$ : 363.2/16

Left Out:  $1.941 \pm 0.917$   $\chi^2/\text{NDF}$ : 739.3/11

Right Out:  $43.895 \pm 1.604$   $\chi^2/\text{NDF}$ : 531.7/17

Left In:  $-1.831 \pm 0.911$   $\chi^2/\text{NDF}$ : 621.9/10

Left:  $0.043 \pm 0.646$   $\chi^2/\text{NDF}$ : 1369.7/22

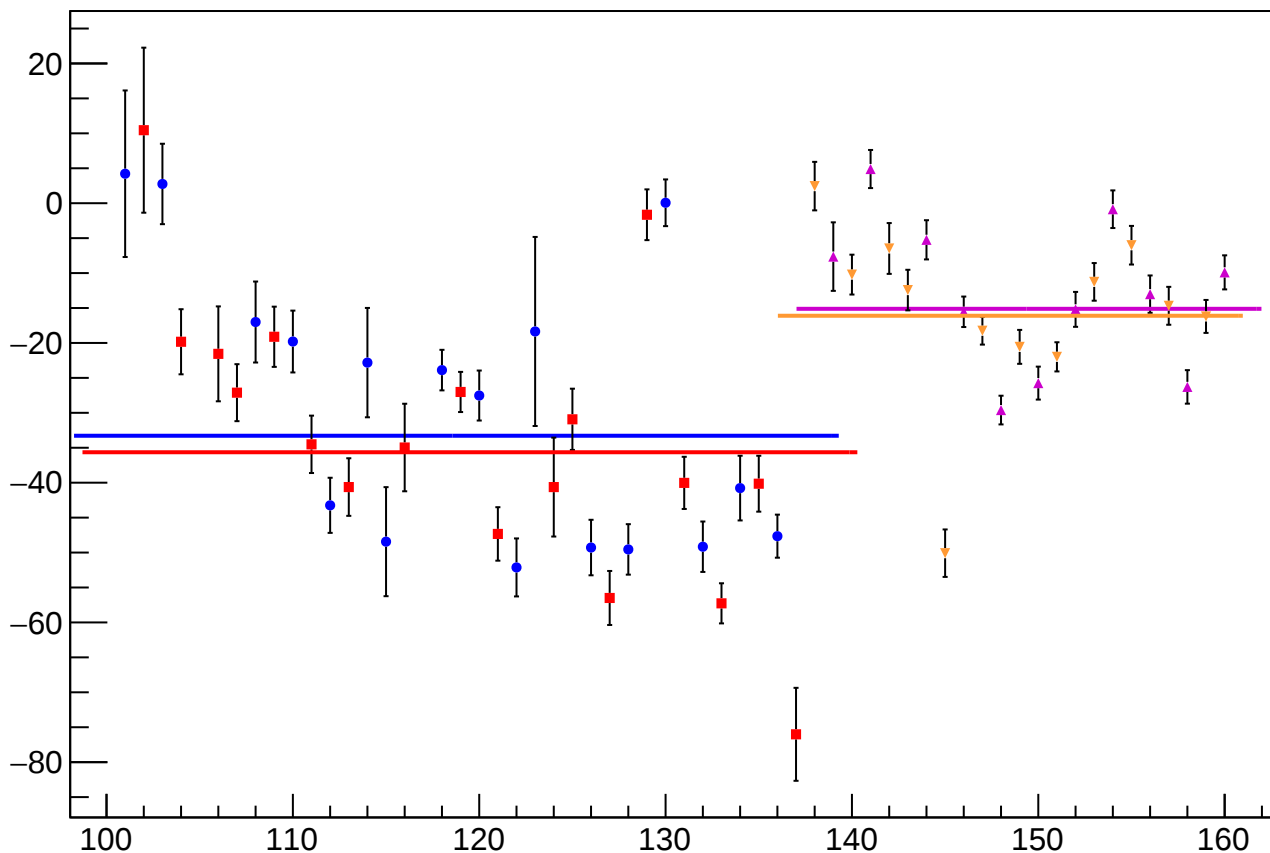
Right:  $47.060 \pm 1.157$   $\chi^2/\text{NDF}$ : 903.0/34

In:  $10.157 \pm 0.800$   $\chi^2/\text{NDF}$ : 1741.2/27

Out:  $12.279 \pm 0.796$   $\chi^2/\text{NDF}$ : 1786.7/29

All:  $11.223 \pm 0.564$   $\chi^2/\text{NDF}$ : 3531.5/57

reg\_asym\_atr1\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.281 \pm 1.035$   $\chi^2/\text{NDF}: 292.9/16$

Left Out:  $-16.107 \pm 0.762$   $\chi^2/\text{NDF}: 170.8/11$

Right Out:  $-35.644 \pm 0.993$   $\chi^2/\text{NDF}: 284.6/17$

Left In:  $-15.114 \pm 0.765$   $\chi^2/\text{NDF}: 193.6/10$

Left:  $-15.613 \pm 0.540$   $\chi^2/\text{NDF}: 365.2/22$

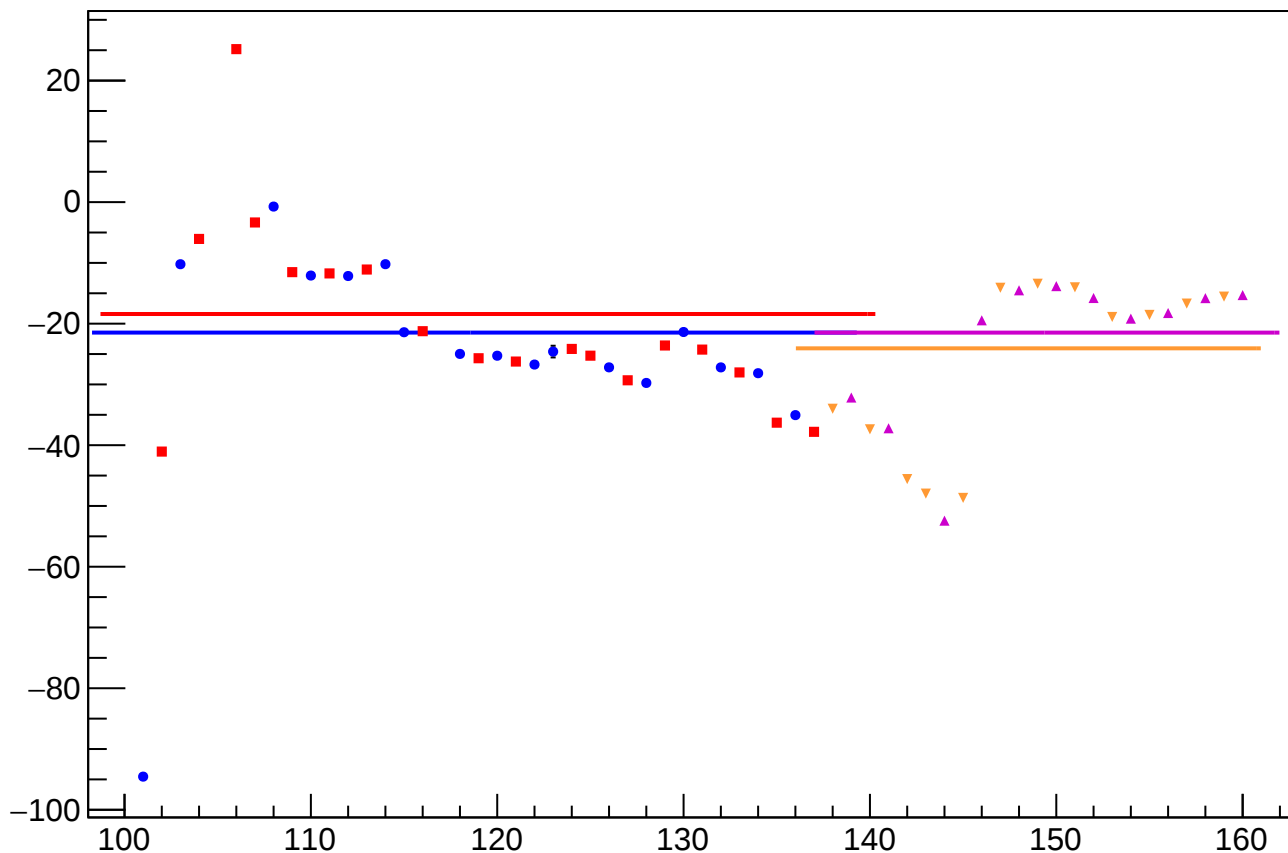
Right:  $-34.511 \pm 0.716$   $\chi^2/\text{NDF}: 580.2/34$

In:  $-21.531 \pm 0.615$   $\chi^2/\text{NDF}: 685.8/27$

Out:  $-23.348 \pm 0.604$   $\chi^2/\text{NDF}: 699.2/29$

All:  $-22.455 \pm 0.431$   $\chi^2/\text{NDF}: 1389.4/57$

reg\_asym\_atr1\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-21.469 \pm 0.059$   $\chi^2/\text{NDF}: 48979.5/16$

Left Out:  $-24.061 \pm 0.036$   $\chi^2/\text{NDF}: 119675.6/11$

Right Out:  $-18.411 \pm 0.057$   $\chi^2/\text{NDF}: 77587.3/17$

Left In:  $-21.474 \pm 0.035$   $\chi^2/\text{NDF}: 80482.5/10$

Left:  $-22.746 \pm 0.025$   $\chi^2/\text{NDF}: 202794.0/22$

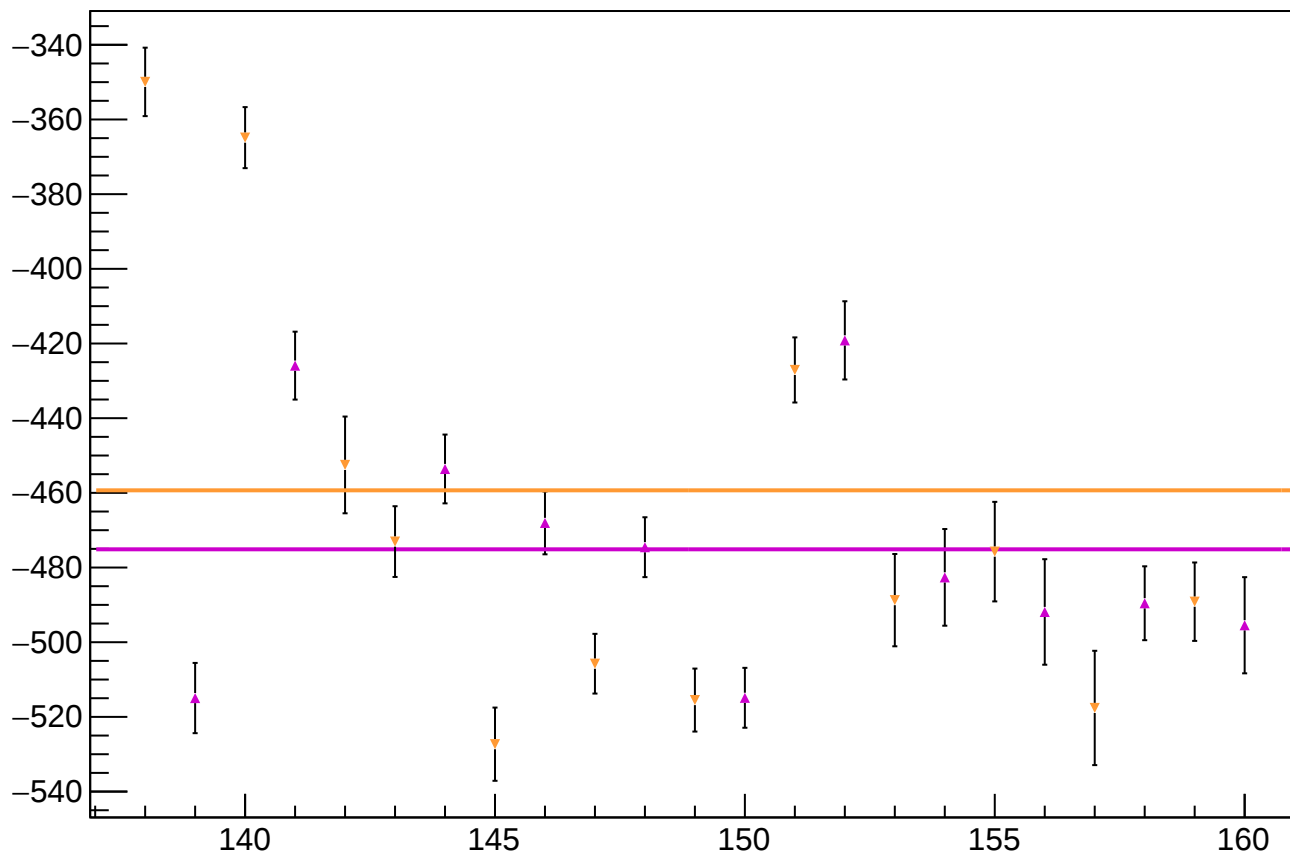
Right:  $-19.904 \pm 0.041$   $\chi^2/\text{NDF}: 127953.4/34$

In:  $-21.473 \pm 0.030$   $\chi^2/\text{NDF}: 129462.0/27$

Out:  $-22.470 \pm 0.030$   $\chi^2/\text{NDF}: 204227.4/29$

All:  $-21.968 \pm 0.021$   $\chi^2/\text{NDF}: 334228.7/57$

# reg\_asym\_atr2\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -459.321+/-2.854  $\chi^2/\text{NDF}$ :447.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -475.120+/-2.927  $\chi^2/\text{NDF}$ :112.8/10

Left: -467.022+/-2.044  $\chi^2/\text{NDF}$ : 575.7/22

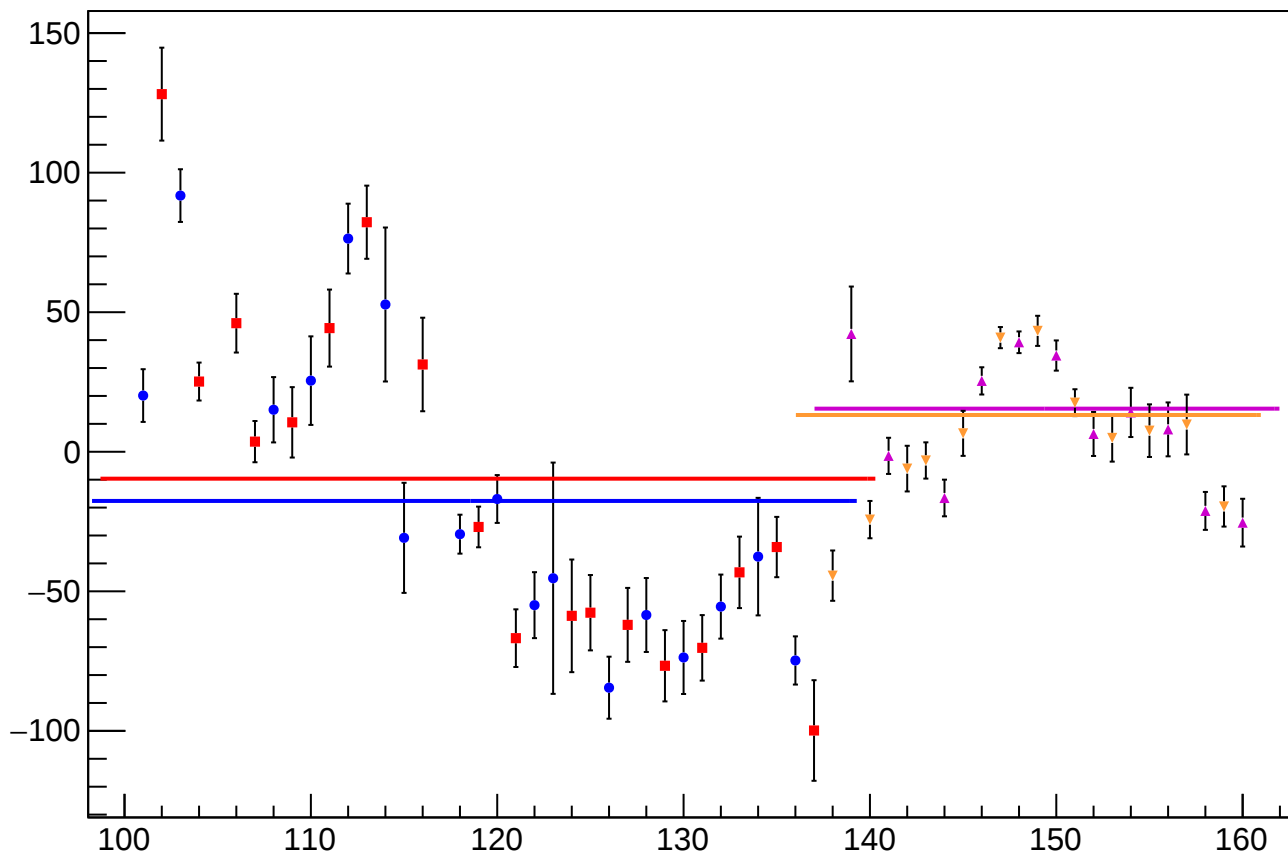
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -475.120+/-2.927  $\chi^2/\text{NDF}$ :112.8/10

Out: -459.321+/-2.854  $\chi^2/\text{NDF}$ :447.9/11

All: -467.022+/-2.044  $\chi^2/\text{NDF}$ : 575.7/22

reg\_asym\_atr2\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-17.619 \pm 2.786$   $\chi^2/\text{NDF}: 362.0/16$

Left Out:  $13.173 \pm 1.860$   $\chi^2/\text{NDF}: 192.3/11$

Right Out:  $-9.641 \pm 2.613$   $\chi^2/\text{NDF}: 360.7/17$

Left In:  $15.444 \pm 1.932$   $\chi^2/\text{NDF}: 140.9/10$

Left:  $14.266 \pm 1.340$   $\chi^2/\text{NDF}: 333.9/22$

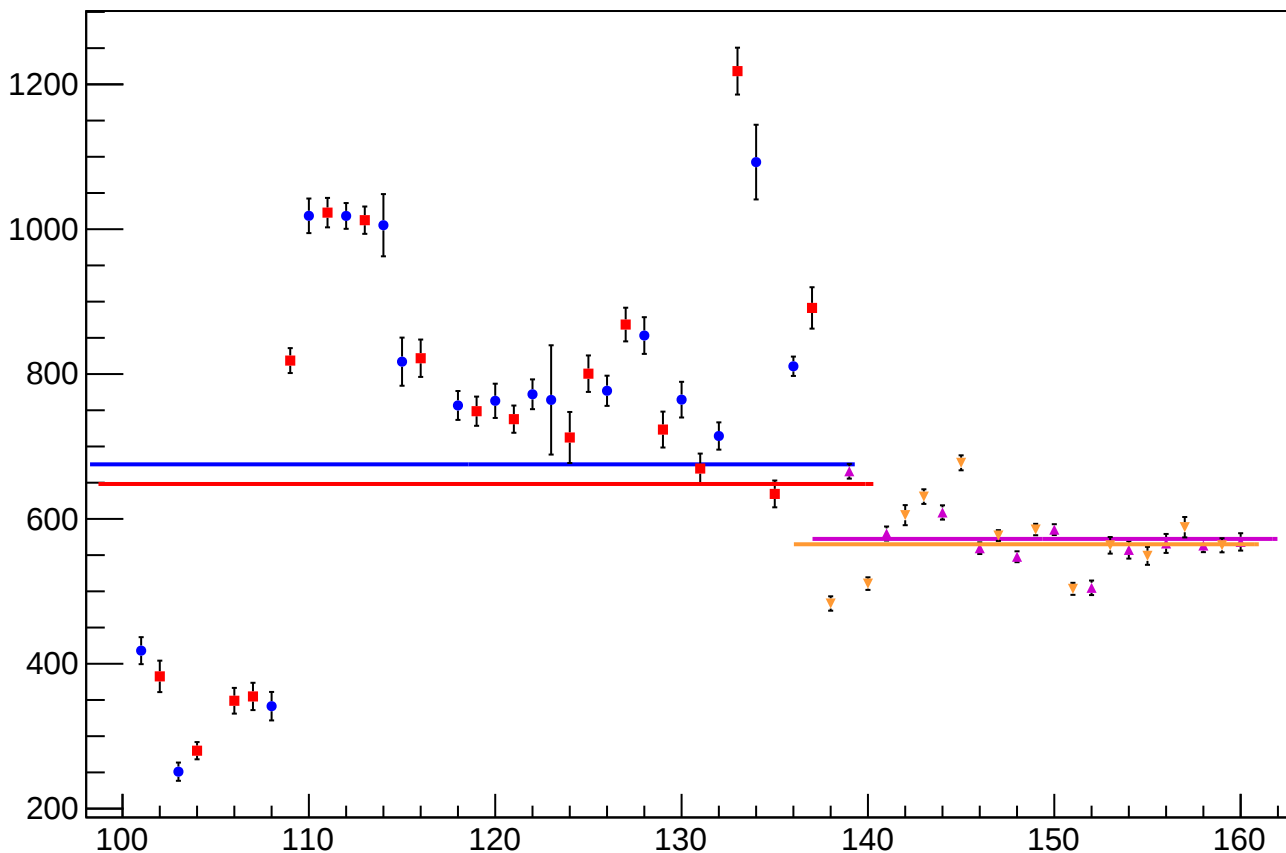
Right:  $-13.374 \pm 1.906$   $\chi^2/\text{NDF}: 727.1/34$

In:  $4.710 \pm 1.588$   $\chi^2/\text{NDF}: 598.0/27$

Out:  $5.498 \pm 1.515$   $\chi^2/\text{NDF}: 603.6/29$

All:  $5.122 \pm 1.096$   $\chi^2/\text{NDF}: 1201.7/57$

reg\_asym\_atr2\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 675.339 $\pm$ 5.046  $\chi^2$ /NDF: 2582.7/16

Left Out: 564.992 $\pm$ 2.819  $\chi^2$ /NDF:344.4/11

Right Out: 648.229 $\pm$ 4.775  $\chi^2$ /NDF: 3059.0/17

Left In: 572.378 $\pm$ 2.849  $\chi^2$ /NDF:162.9/10

Left: 568.646 $\pm$ 2.004  $\chi^2$ /NDF: 510.7/22

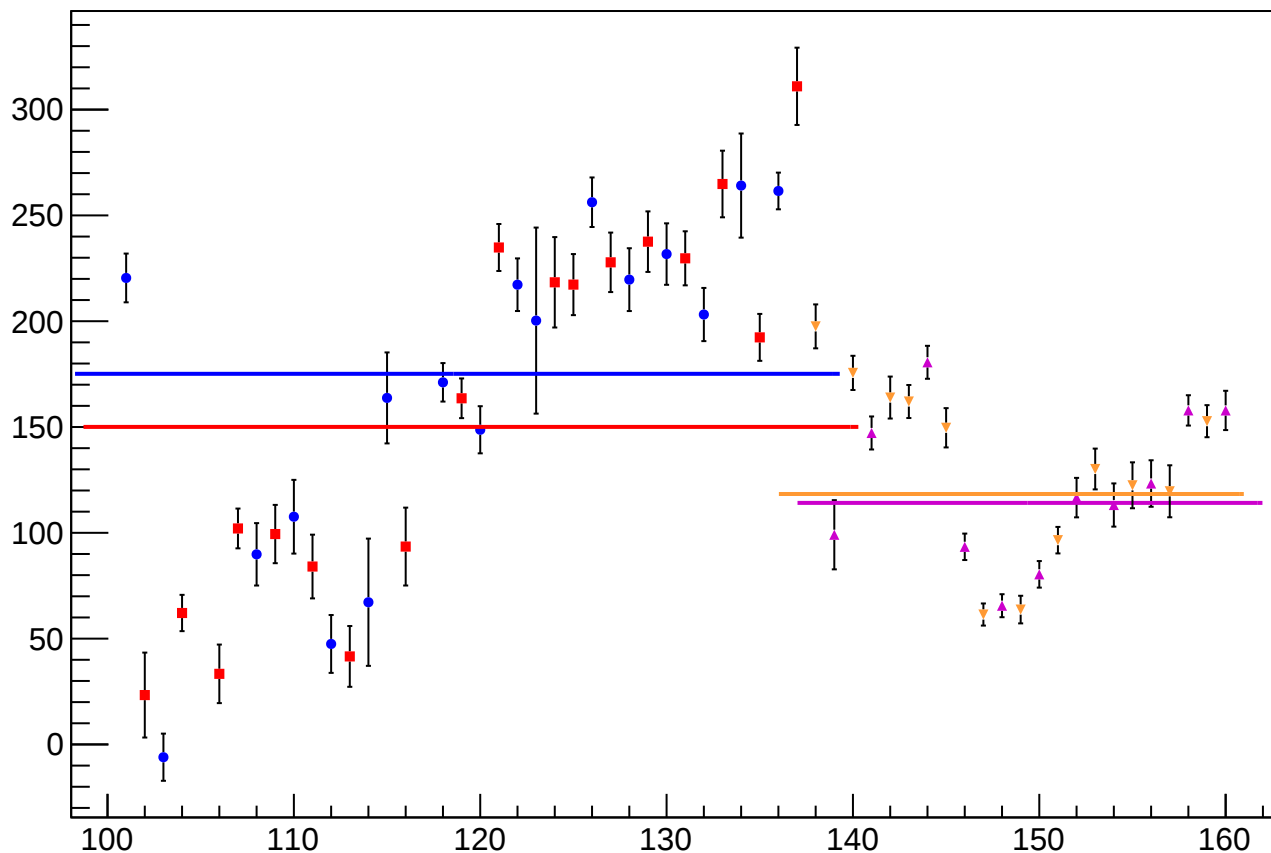
Right: 661.037 $\pm$ 3.468  $\chi^2$ /NDF: 5656.9/34

In: 597.265 $\pm$ 2.481  $\chi^2$ /NDF:3061.4/27

Out: 586.504 $\pm$ 2.427  $\chi^2$ /NDF:3628.7/29

All: 591.768 $\pm$ 1.735  $\chi^2$ /NDF: 6699.7/57

reg\_asym\_atr2\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $175.142 \pm 3.209$   $\chi^2/\text{NDF}$ : 635.6/16

Left Out:  $118.351 \pm 2.284$   $\chi^2/\text{NDF}$ : 395.5/11

Right Out:  $150.054 \pm 3.045$   $\chi^2/\text{NDF}$ : 686.2/17

Left In:  $114.144 \pm 2.344$   $\chi^2/\text{NDF}$ : 271.6/10

Left:  $116.302 \pm 1.636$   $\chi^2/\text{NDF}$ : 668.8/22

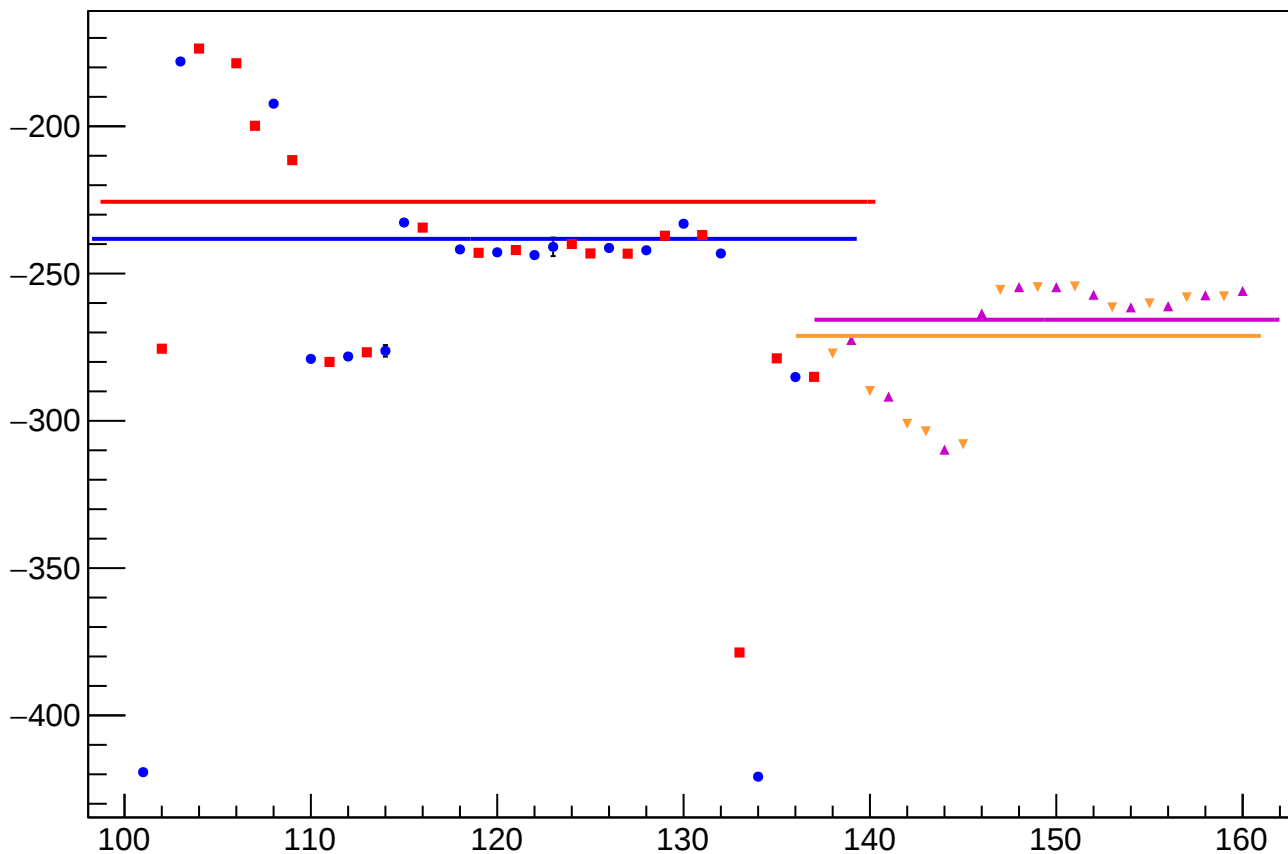
Right:  $161.941 \pm 2.209$   $\chi^2/\text{NDF}$ : 1354.0/34

In:  $135.366 \pm 1.893$   $\chi^2/\text{NDF}$ : 1142.8/27

Out:  $129.765 \pm 1.827$   $\chi^2/\text{NDF}$ : 1151.0/29

All:  $132.466 \pm 1.315$   $\chi^2/\text{NDF}$ : 2298.4/57

reg\_asym\_atr2\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-238.217 \pm 0.160$   $\chi^2/\text{NDF}: 167098.2/16$

Left Out:  $-271.153 \pm 0.114$   $\chi^2/\text{NDF}: 29881.9/11$

Right Out:  $-225.623 \pm 0.152$   $\chi^2/\text{NDF}: 95450.2/17$

Left In:  $-265.672 \pm 0.113$   $\chi^2/\text{NDF}: 19518.3/10$

Left:  $-268.390 \pm 0.080$   $\chi^2/\text{NDF}: 50562.7/22$

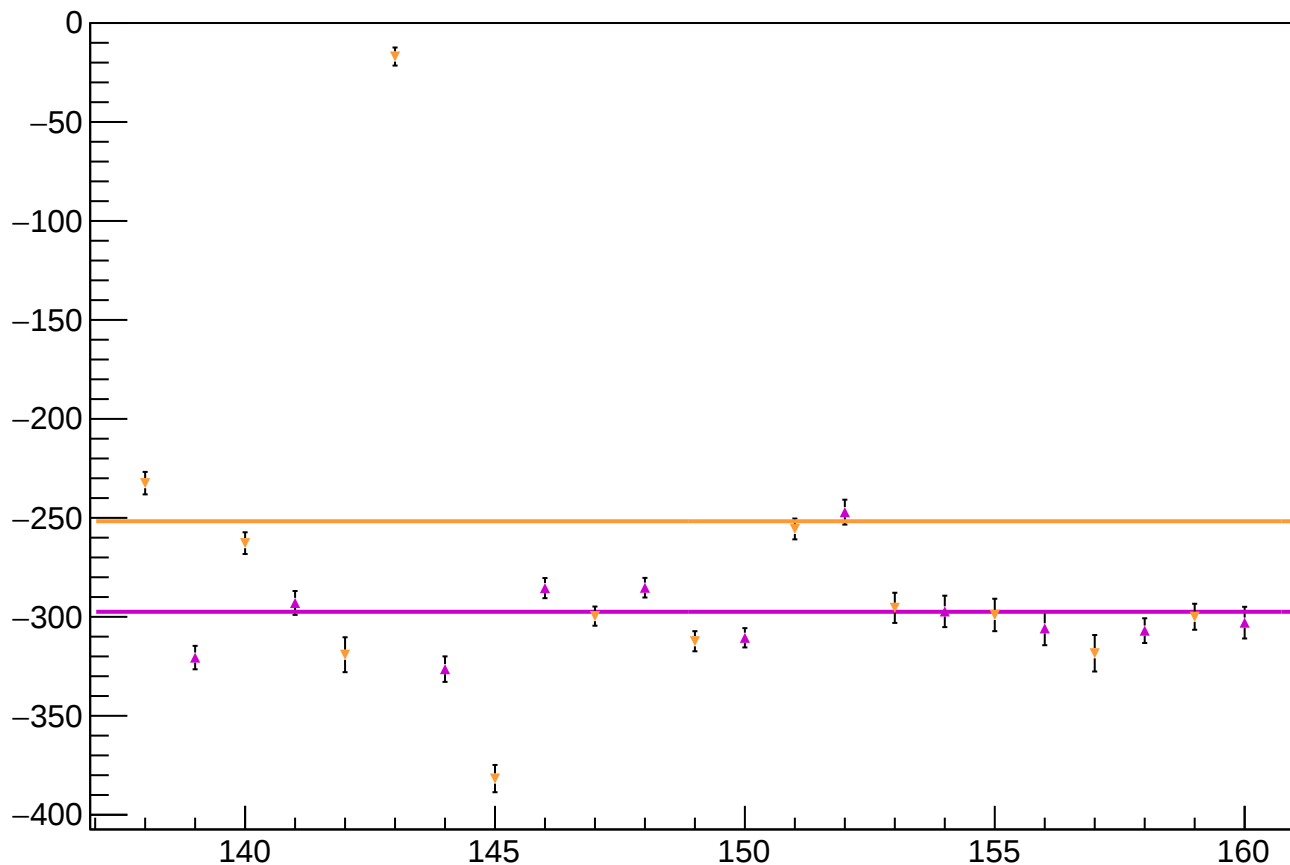
Right:  $-231.577 \pm 0.110$   $\chi^2/\text{NDF}: 265811.9/34$

In:  $-256.519 \pm 0.092$   $\chi^2/\text{NDF}: 206229.7/27$

Out:  $-254.675 \pm 0.091$   $\chi^2/\text{NDF}: 182907.8/29$

All:  $-255.584 \pm 0.065$   $\chi^2/\text{NDF}: 389339.2/57$

reg\_asym\_atl\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -251.706+/-1.739  $\chi^2/\text{NDF}$ :3490.8/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -297.447+/-1.832  $\chi^2/\text{NDF}$ :122.8/10

Left: -273.381+/-1.261  $\chi^2/\text{NDF}$ : 3941.6/22

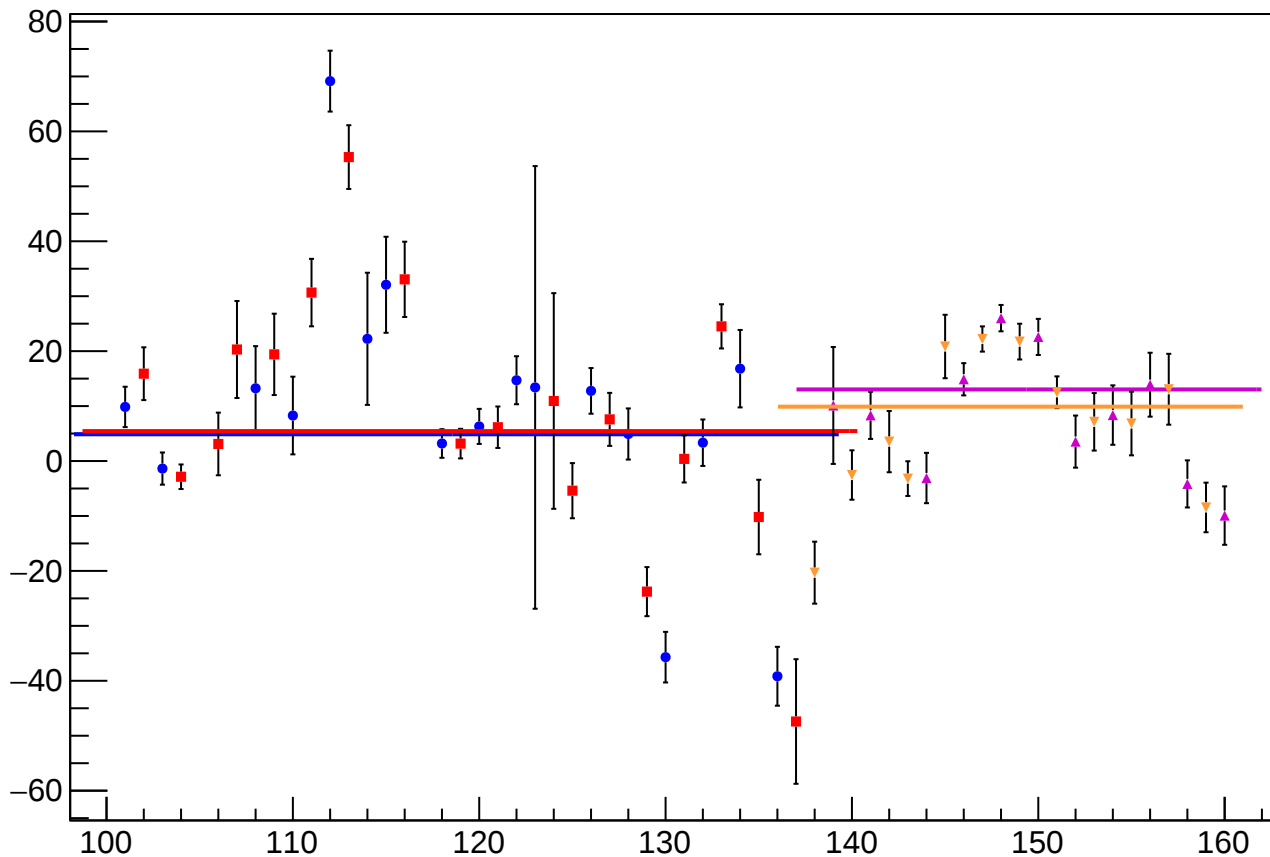
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -297.447+/-1.832  $\chi^2/\text{NDF}$ :122.8/10

Out: -251.706+/-1.739  $\chi^2/\text{NDF}$ :3490.8/11

All: -273.381+/-1.261  $\chi^2/\text{NDF}$ : 3941.6/22

reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.870 \pm 1.091$   $\chi^2/\text{NDF}: 311.5/16$

Left Out:  $9.898 \pm 1.128$   $\chi^2/\text{NDF}: 118.6/11$

Right Out:  $5.450 \pm 1.071$   $\chi^2/\text{NDF}: 231.5/17$

Left In:  $13.031 \pm 1.203$   $\chi^2/\text{NDF}: 91.2/10$

Left:  $11.363 \pm 0.823$   $\chi^2/\text{NDF}: 213.4/22$

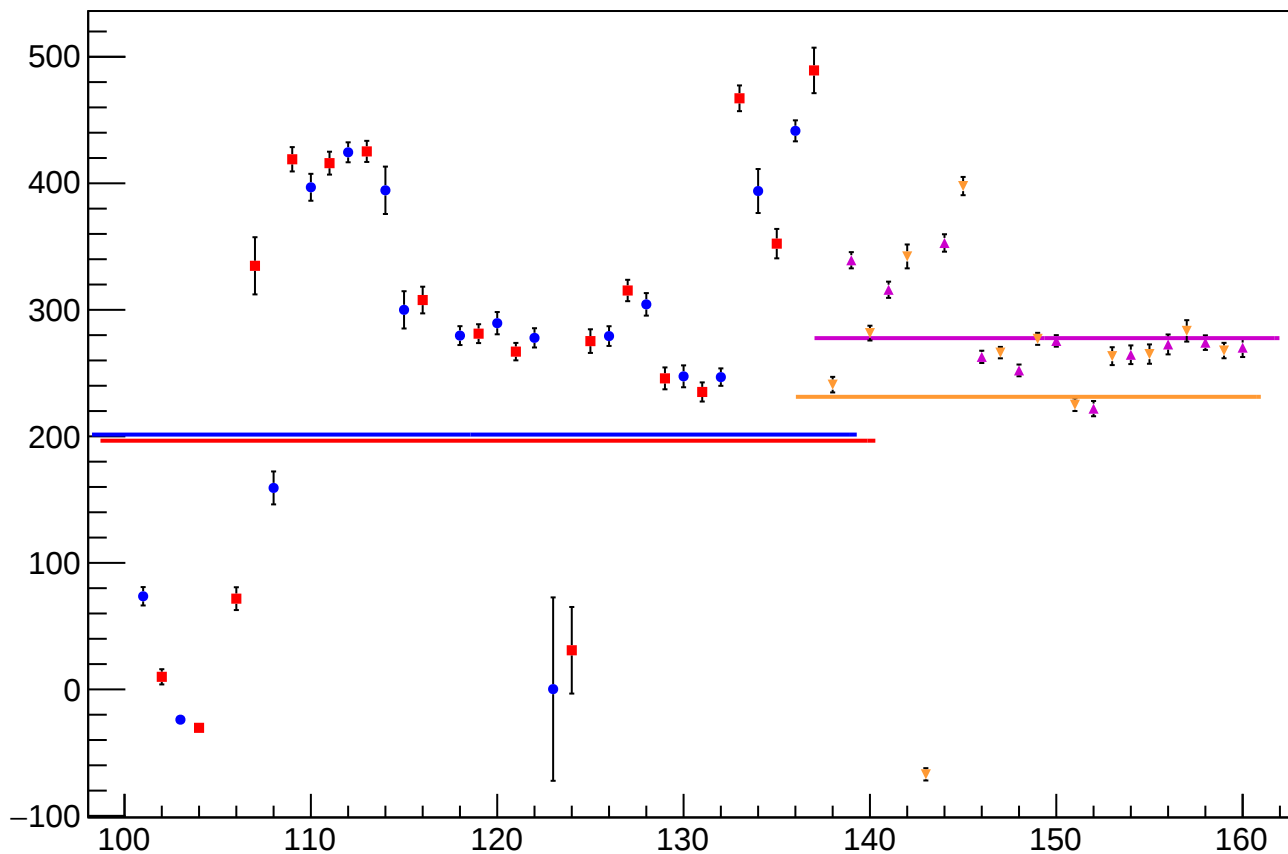
Right:  $5.165 \pm 0.764$   $\chi^2/\text{NDF}: 543.2/34$

In:  $8.551 \pm 0.808$   $\chi^2/\text{NDF}: 428.0/27$

Out:  $7.559 \pm 0.777$   $\chi^2/\text{NDF}: 358.3/29$

All:  $8.035 \pm 0.560$   $\chi^2/\text{NDF}: 787.1/57$

reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 201.407 $\pm$ 1.974  $\chi^2$ /NDF: 6740.4/16

Left Out: 231.251 $\pm$ 1.717  $\chi^2$ /NDF: 4773.0/11

Right Out: 196.565 $\pm$ 1.931  $\chi^2$ /NDF: 8178.1/17

Left In: 277.634 $\pm$ 1.777  $\chi^2$ /NDF: 377.4/10

Left: 253.646 $\pm$ 1.234  $\chi^2$ /NDF: 5502.8/22

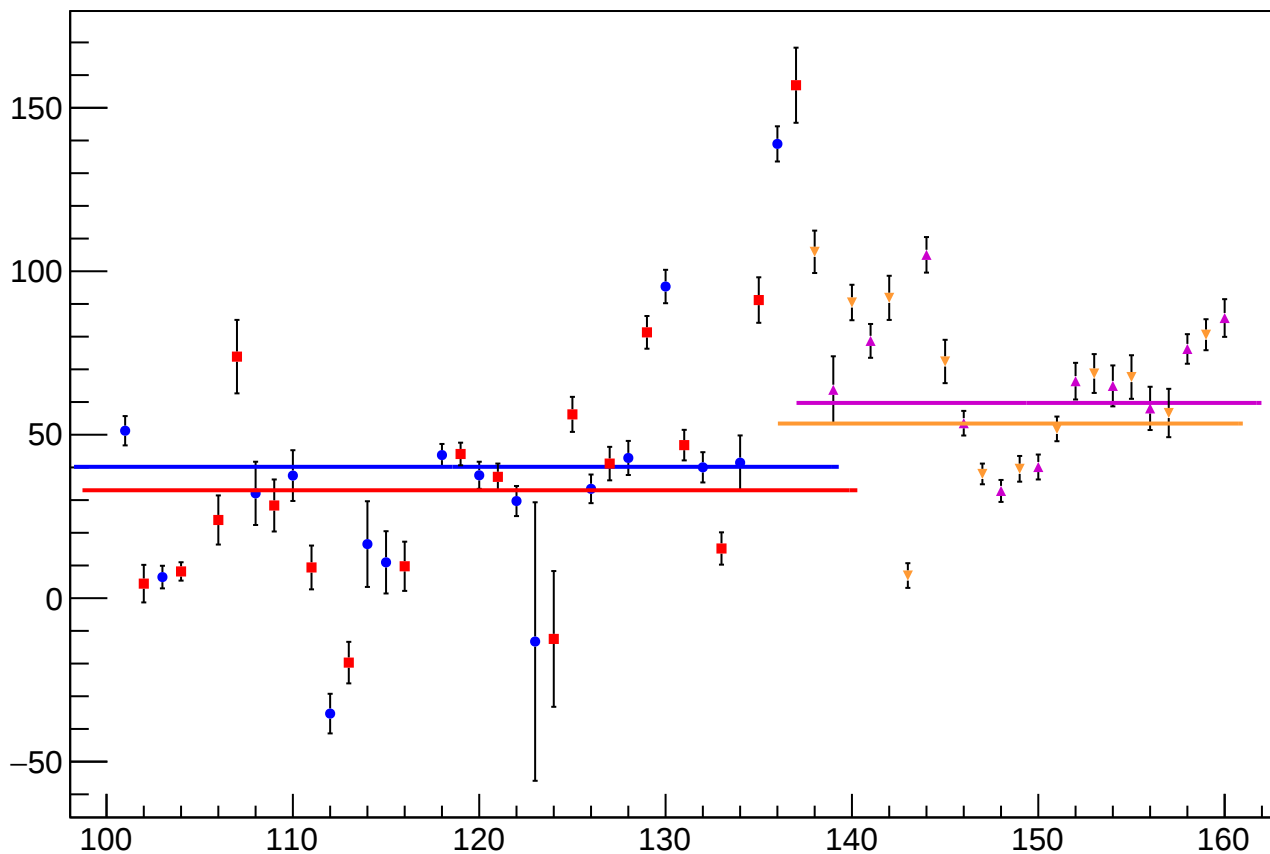
Right: 198.933 $\pm$ 1.380  $\chi^2$ /NDF: 14921.6/34

In: 243.514 $\pm$ 1.320  $\chi^2$ /NDF: 7941.8/27

Out: 215.942 $\pm$ 1.283  $\chi^2$ /NDF: 13131.3/29

All: 229.332 $\pm$ 0.920  $\chi^2$ /NDF: 21297.3/57

reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $40.183 \pm 1.270$   $\chi^2/\text{NDF}: 734.0/16$

Left Out:  $53.419 \pm 1.386$   $\chi^2/\text{NDF}: 384.7/11$

Right Out:  $33.009 \pm 1.253$   $\chi^2/\text{NDF}: 547.2/17$

Left In:  $59.729 \pm 1.462$   $\chi^2/\text{NDF}: 212.1/10$

Left:  $56.404 \pm 1.006$   $\chi^2/\text{NDF}: 606.7/22$

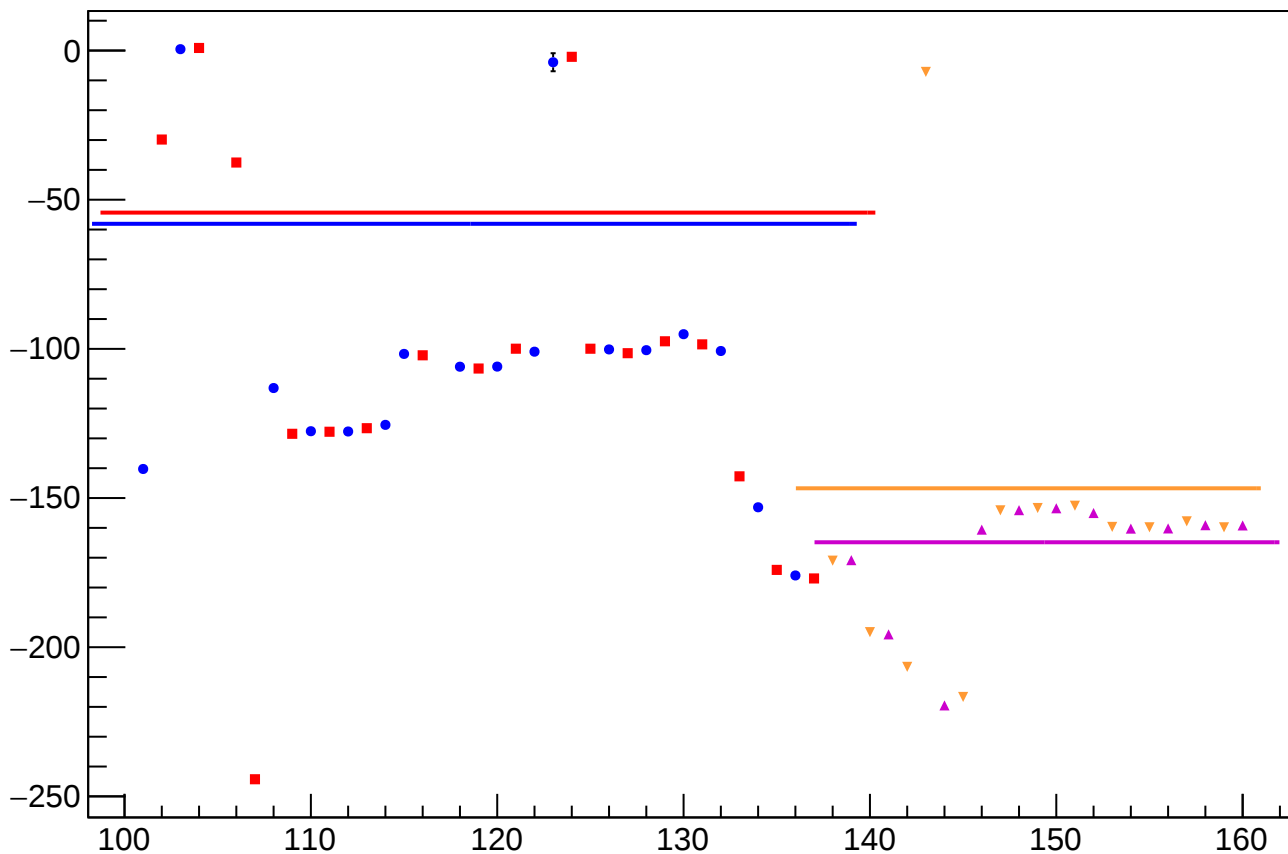
Right:  $36.547 \pm 0.892$   $\chi^2/\text{NDF}: 1297.4/34$

In:  $48.587 \pm 0.959$   $\chi^2/\text{NDF}: 1048.0/27$

Out:  $42.189 \pm 0.929$   $\chi^2/\text{NDF}: 1051.3/29$

All:  $45.288 \pm 0.667$   $\chi^2/\text{NDF}: 2122.2/57$

reg\_asym\_atl\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -58.077+/-0.062  $\chi^2/\text{NDF}$ : 1104437.7/16

Left Out: -146.734+/-0.069  $\chi^2/\text{NDF}$ : 654079.9/11

Right Out: -54.323+/-0.060  $\chi^2/\text{NDF}$ : 991053.6/17

Left In: -164.824+/-0.071  $\chi^2/\text{NDF}$ : 57908.5/10

Left: -155.641+/-0.049  $\chi^2/\text{NDF}$ : 745379.1/22

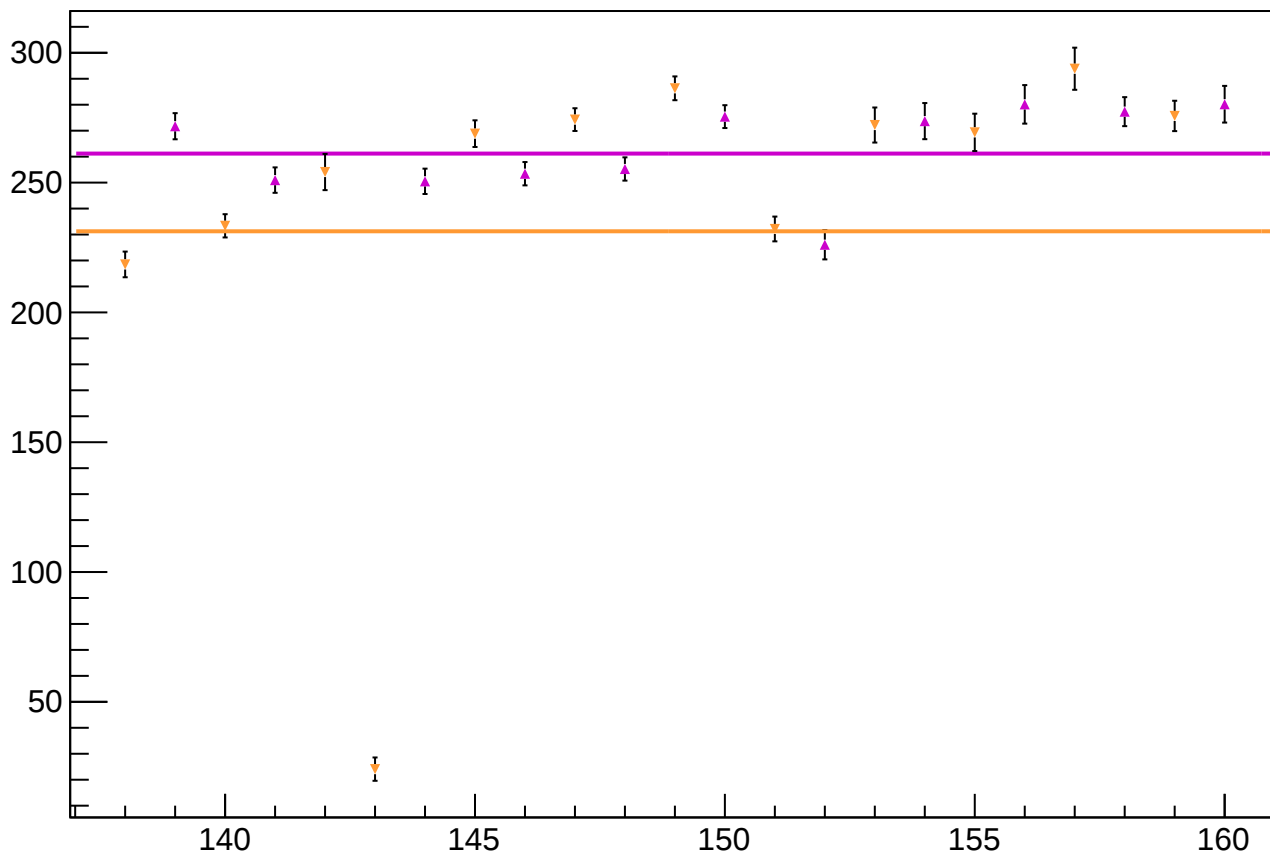
Right: -56.164+/-0.043  $\chi^2/\text{NDF}$ : 2097382.5/34

In: -104.285+/-0.046  $\chi^2/\text{NDF}$ : 2461378.3/27

Out: -94.138+/-0.046  $\chi^2/\text{NDF}$ : 2652402.1/29

All: -99.122+/-0.033  $\chi^2/\text{NDF}$ : 5138103.4/57

reg\_asym\_atl\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 231.246+/-1.528  $\chi^2/\text{NDF}$ :2621.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 261.177+/-1.589  $\chi^2/\text{NDF}$ :92.6/10

Left: 245.630+/-1.101  $\chi^2/\text{NDF}$ : 2898.9/22

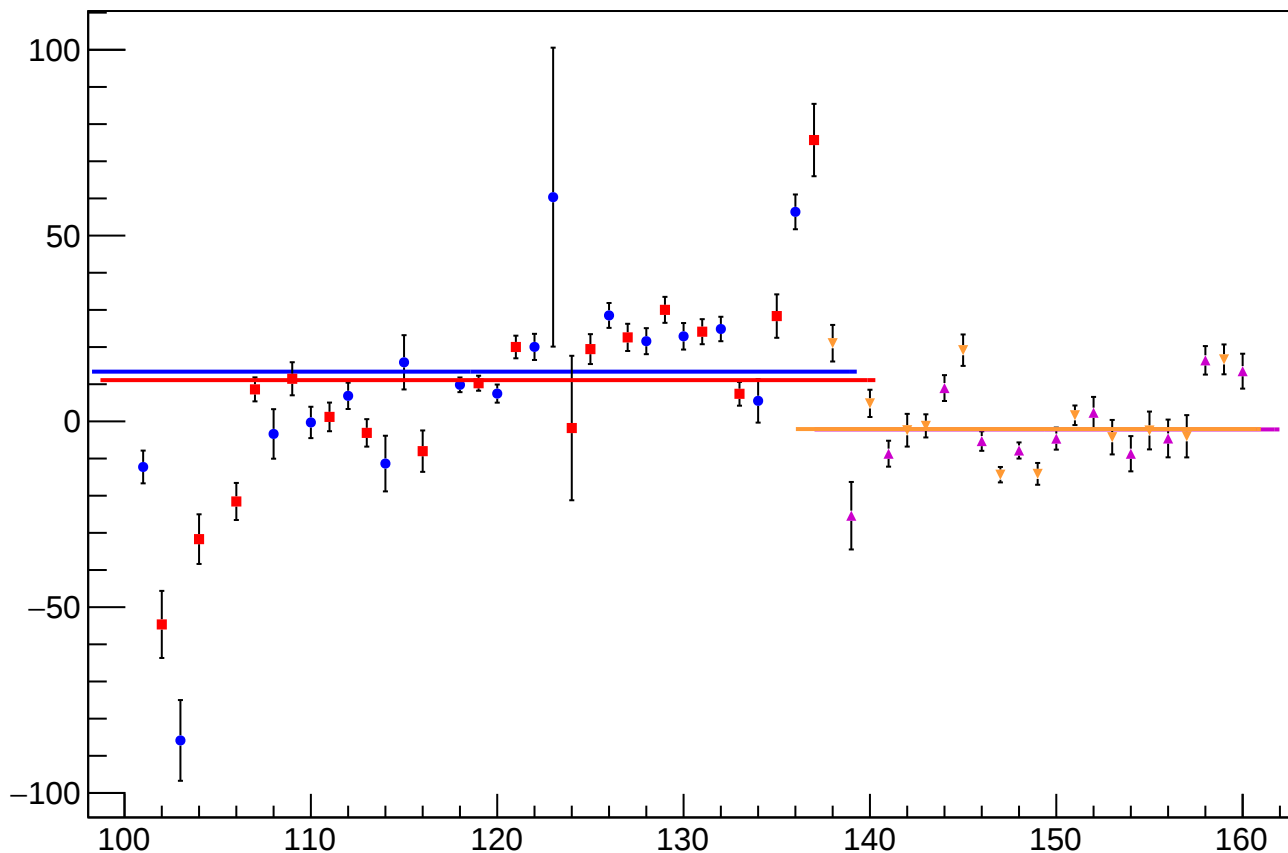
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 261.177+/-1.589  $\chi^2/\text{NDF}$ :92.6/10

Out: 231.246+/-1.528  $\chi^2/\text{NDF}$ :2621.9/11

All: 245.630+/-1.101  $\chi^2/\text{NDF}$ : 2898.9/22

reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $13.385 \pm 0.921$   $\chi^2/\text{NDF}$ : 294.1/16

Left Out:  $-2.066 \pm 1.002$   $\chi^2/\text{NDF}$ : 126.8/11

Right Out:  $11.101 \pm 0.915$   $\chi^2/\text{NDF}$ : 292.2/17

Left In:  $-2.166 \pm 1.055$   $\chi^2/\text{NDF}$ : 67.1/10

Left:  $-2.114 \pm 0.726$   $\chi^2/\text{NDF}$ : 193.8/22

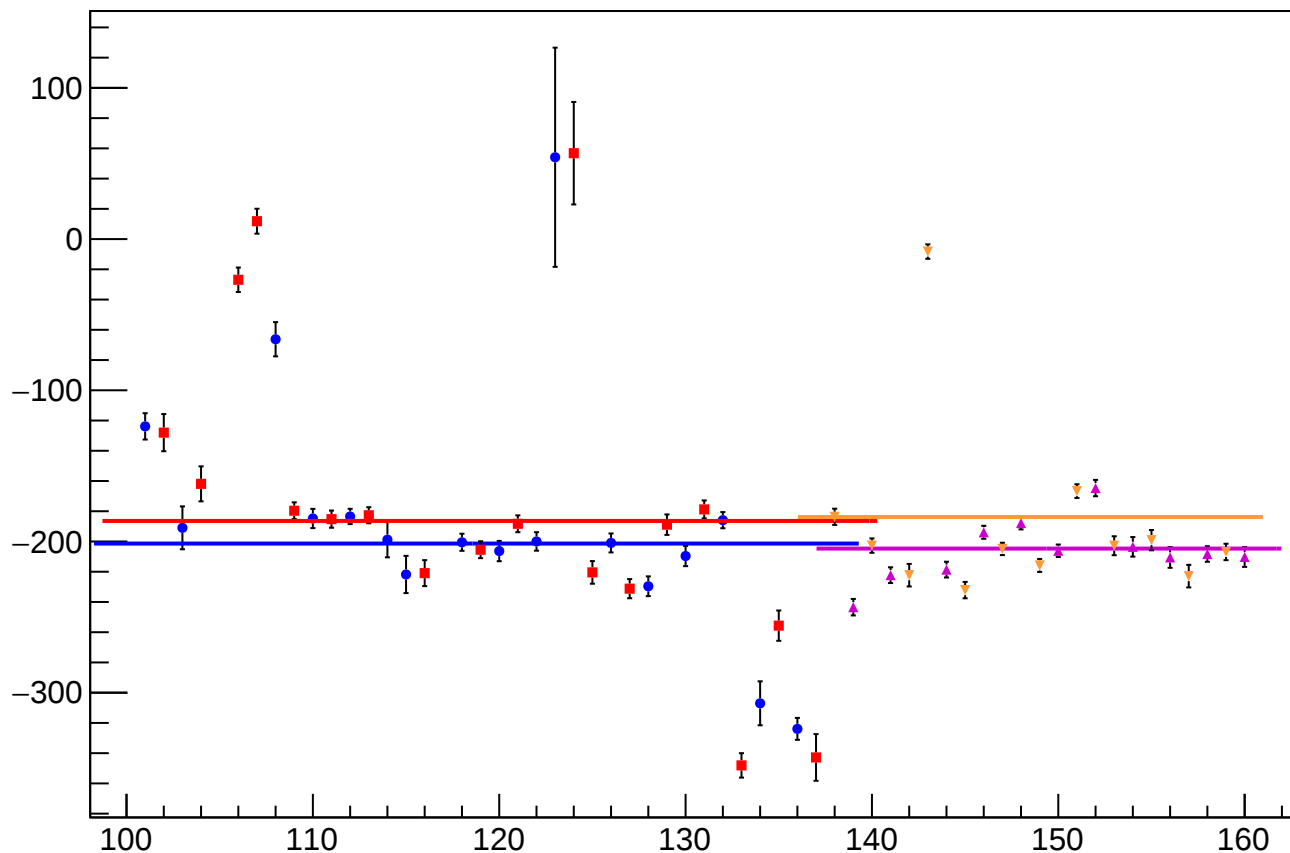
Right:  $12.236 \pm 0.649$   $\chi^2/\text{NDF}$ : 589.4/34

In:  $6.655 \pm 0.694$   $\chi^2/\text{NDF}$ : 484.5/27

Out:  $5.110 \pm 0.676$   $\chi^2/\text{NDF}$ : 513.2/29

All:  $5.862 \pm 0.484$   $\chi^2/\text{NDF}$ : 1000.2/57

reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-201.367 \pm 1.784$   $\chi^2/\text{NDF}$ : 625.0/16

Left Out:  $-183.823 \pm 1.513$   $\chi^2/\text{NDF}$ : 1621.2/11

Right Out:  $-186.409 \pm 1.703$   $\chi^2/\text{NDF}$ : 1699.5/17

Left In:  $-204.691 \pm 1.548$   $\chi^2/\text{NDF}$ : 148.2/10

Left:  $-194.018 \pm 1.082$   $\chi^2/\text{NDF}$ : 1862.4/22

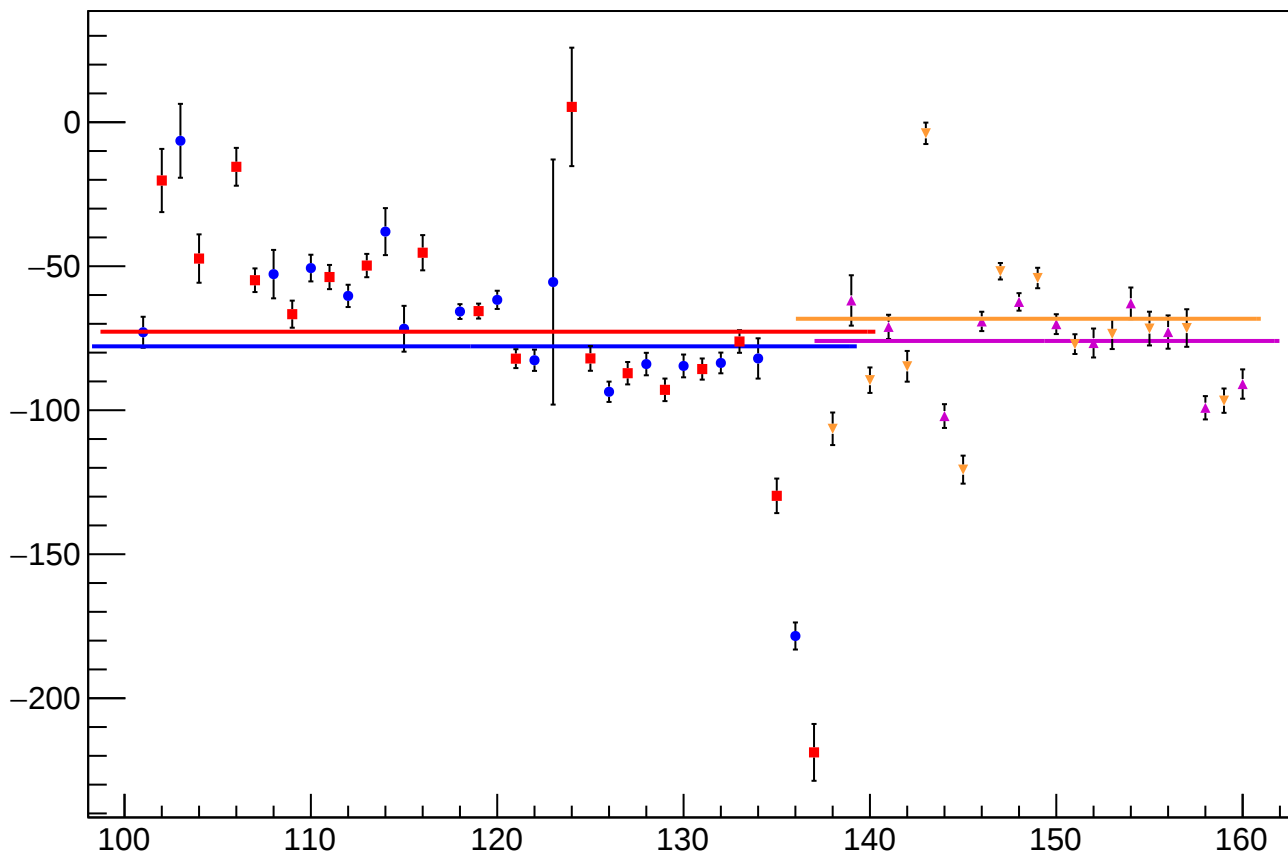
Right:  $-193.544 \pm 1.232$   $\chi^2/\text{NDF}$ : 2361.2/34

In:  $-203.263 \pm 1.169$   $\chi^2/\text{NDF}$ : 775.2/27

Out:  $-184.964 \pm 1.131$   $\chi^2/\text{NDF}$ : 3322.0/29

All:  $-193.812 \pm 0.813$   $\chi^2/\text{NDF}$ : 4223.7/57

reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.818 \pm 1.068$   $\chi^2/\text{NDF}: 656.4/16$

Left Out:  $-68.242 \pm 1.228$   $\chi^2/\text{NDF}: 596.8/11$

Right Out:  $-72.734 \pm 1.054$   $\chi^2/\text{NDF}: 599.0/17$

Left In:  $-75.948 \pm 1.278$   $\chi^2/\text{NDF}: 118.2/10$

Left:  $-71.939 \pm 0.885$   $\chi^2/\text{NDF}: 733.9/22$

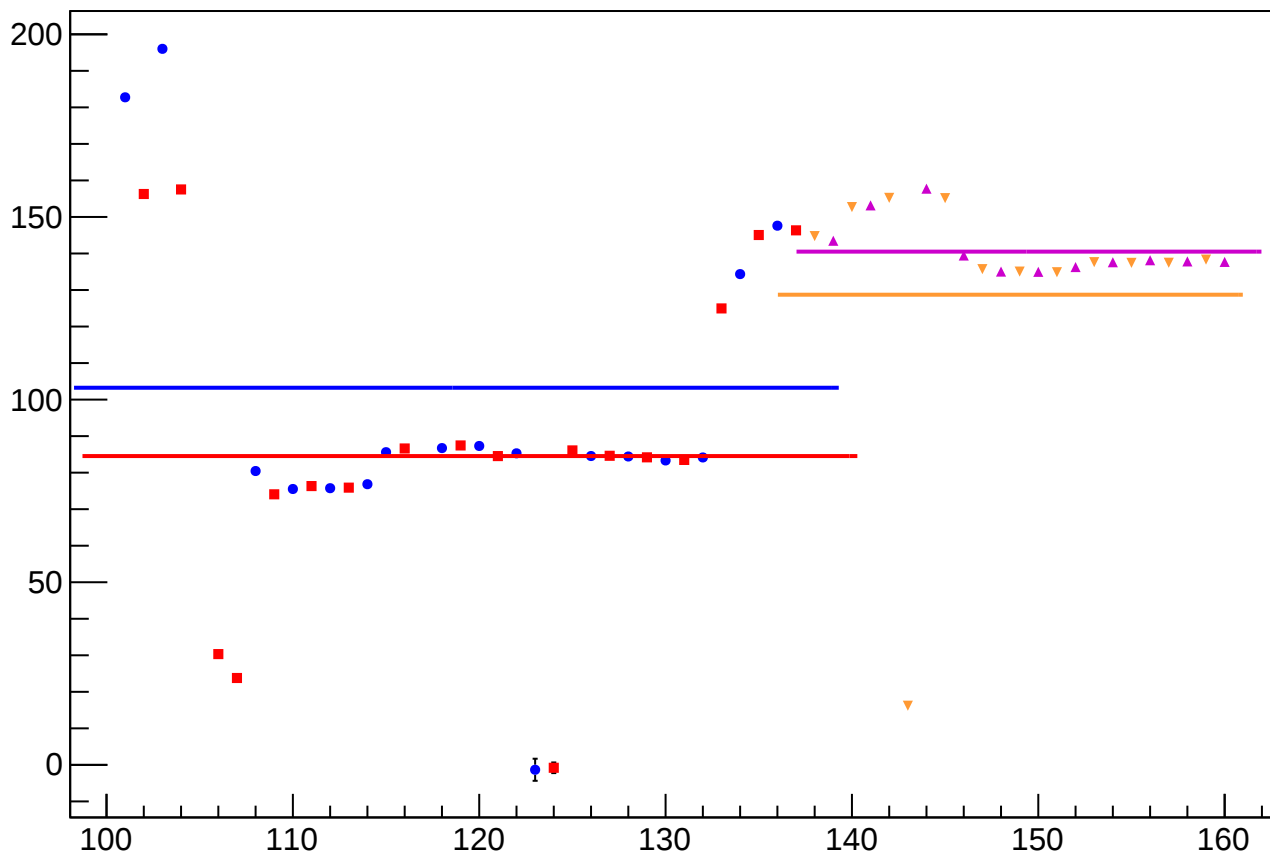
Right:  $-75.241 \pm 0.750$   $\chi^2/\text{NDF}: 1266.8/34$

In:  $-77.049 \pm 0.820$   $\chi^2/\text{NDF}: 775.8/27$

Out:  $-70.829 \pm 0.800$   $\chi^2/\text{NDF}: 1203.5/29$

All:  $-73.862 \pm 0.572$   $\chi^2/\text{NDF}: 2008.8/57$

reg\_asym\_atl\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 103.247 $\pm$ 0.070  $\chi^2$ /NDF: 273390.3/16

Left Out: 128.715 $\pm$ 0.061  $\chi^2$ /NDF: 394699.5/11

Right Out: 84.542 $\pm$ 0.064  $\chi^2$ /NDF: 411395.0/17

Left In: 140.509 $\pm$ 0.061  $\chi^2$ /NDF: 12511.2/10

Left: 134.578 $\pm$ 0.043  $\chi^2$ /NDF: 425703.1/22

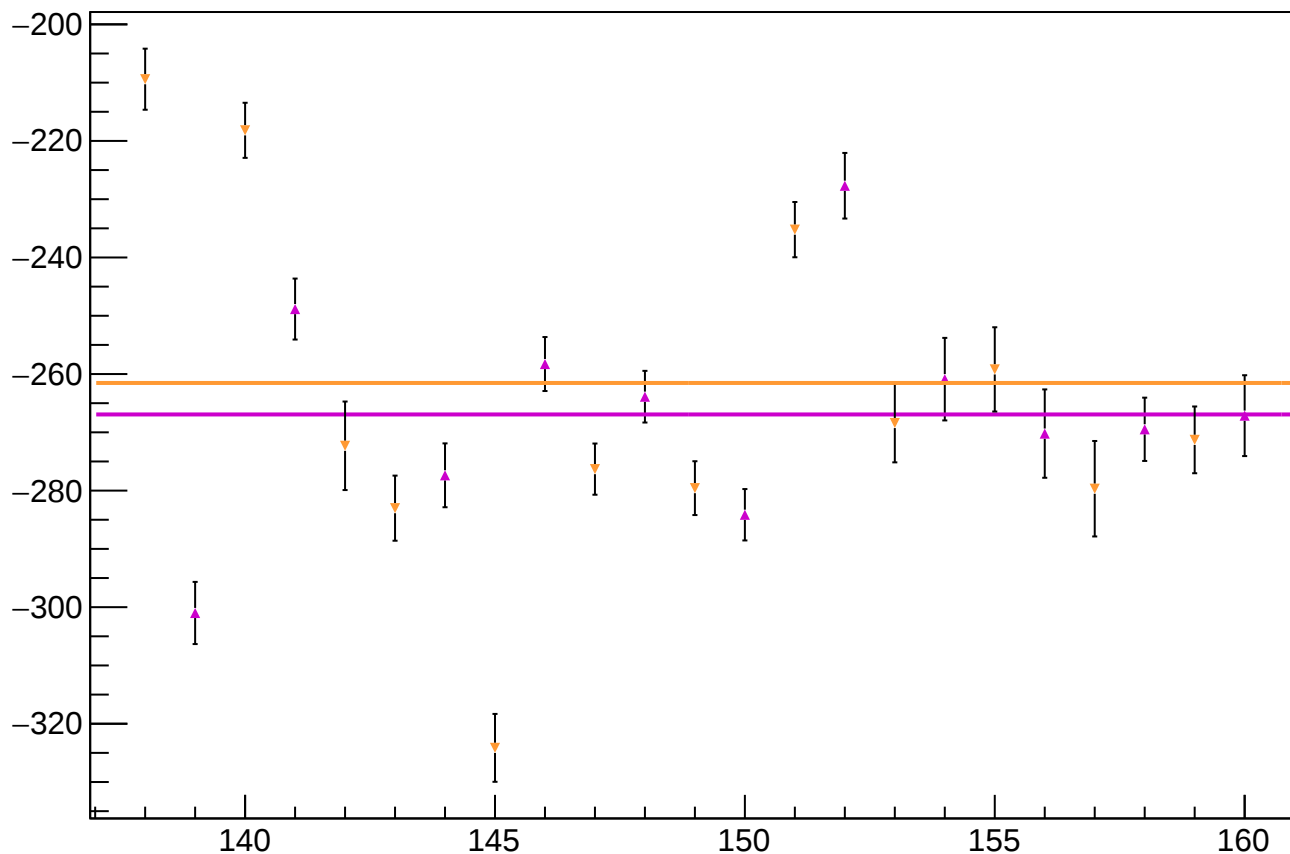
Right: 92.986 $\pm$ 0.047  $\chi^2$ /NDF: 723450.6/34

In: 124.396 $\pm$ 0.046  $\chi^2$ /NDF: 444638.8/27

Out: 107.606 $\pm$ 0.044  $\chi^2$ /NDF: 1055498.2/29

All: 115.602 $\pm$ 0.032  $\chi^2$ /NDF: 1568918.5/57

reg\_asym\_atr\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -261.529+/-1.602  $\chi^2/\text{NDF}$ :381.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -266.933+/-1.627  $\chi^2/\text{NDF}$ :125.3/10

Left: -264.188+/-1.142  $\chi^2/\text{NDF}$ : 512.8/22

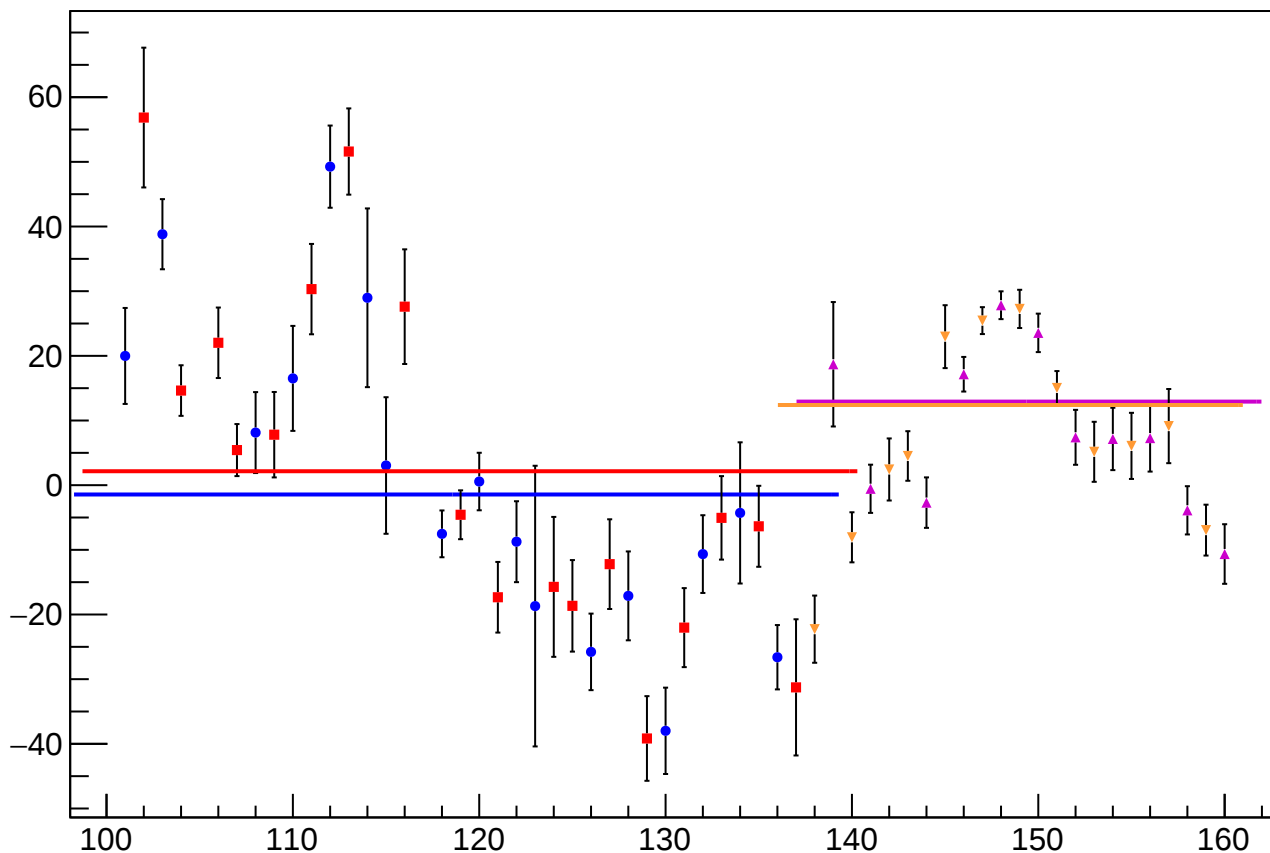
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -266.933+/-1.627  $\chi^2/\text{NDF}$ :125.3/10

Out: -261.529+/-1.602  $\chi^2/\text{NDF}$ :381.9/11

All: -264.188+/-1.142  $\chi^2/\text{NDF}$ : 512.8/22

reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-1.440 \pm 1.516$   $\chi^2/\text{NDF}: 224.4/16$

Left Out:  $12.398 \pm 1.038$   $\chi^2/\text{NDF}: 179.8/11$

Right Out:  $2.157 \pm 1.401$   $\chi^2/\text{NDF}: 230.2/17$

Left In:  $12.924 \pm 1.071$   $\chi^2/\text{NDF}: 143.6/10$

Left:  $12.653 \pm 0.745$   $\chi^2/\text{NDF}: 323.5/22$

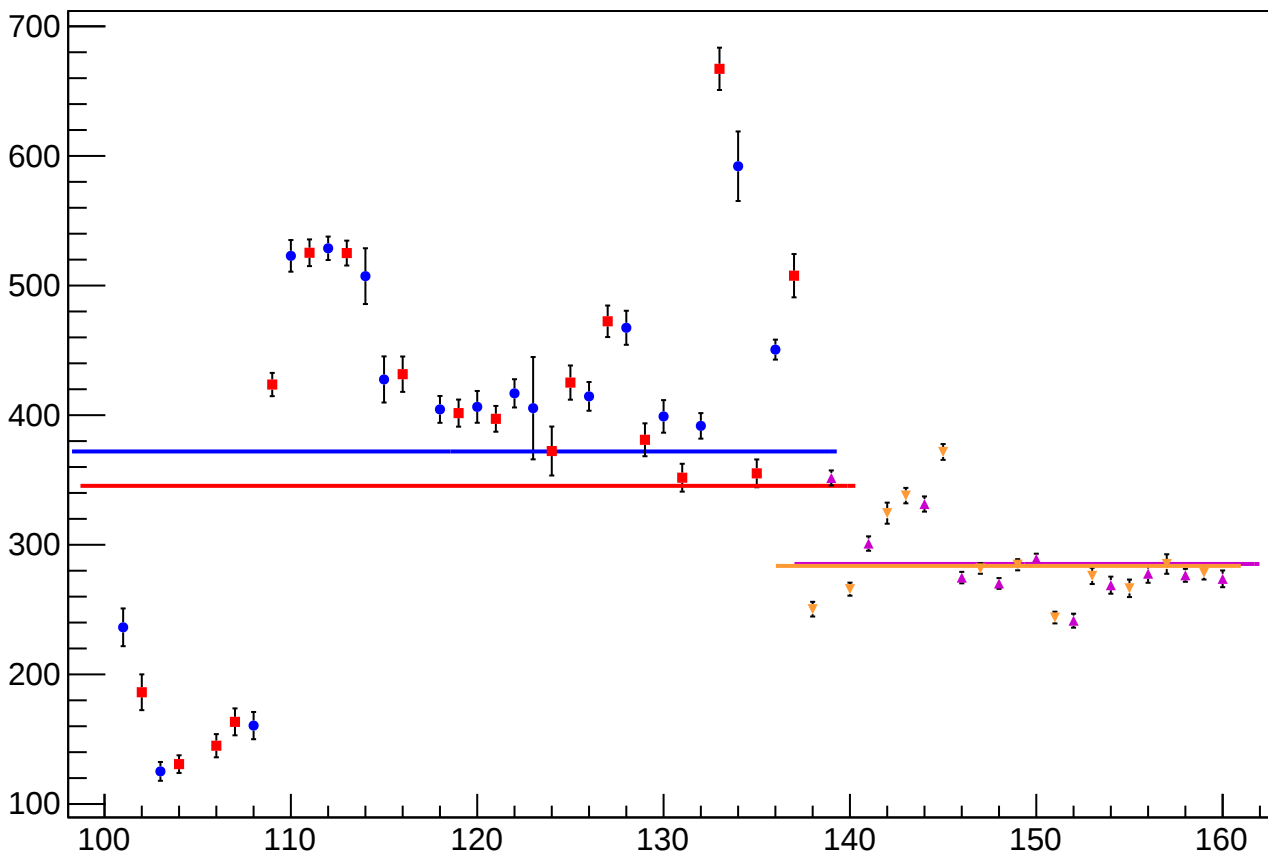
Right:  $0.500 \pm 1.029$   $\chi^2/\text{NDF}: 457.6/34$

In:  $8.143 \pm 0.875$   $\chi^2/\text{NDF}: 427.9/27$

Out:  $8.771 \pm 0.834$   $\chi^2/\text{NDF}: 444.5/29$

All:  $8.472 \pm 0.604$   $\chi^2/\text{NDF}: 872.7/57$

reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 371.997 $\pm$ 2.765  $\chi^2$ /NDF: 2431.2/16

Left Out: 283.709 $\pm$ 1.575  $\chi^2$ /NDF:449.4/11

Right Out: 345.473 $\pm$ 2.564  $\chi^2$ /NDF: 3401.6/17

Left In: 285.211 $\pm$ 1.579  $\chi^2$ /NDF:301.4/10

Left: 284.458 $\pm$ 1.115  $\chi^2$ /NDF: 751.3/22

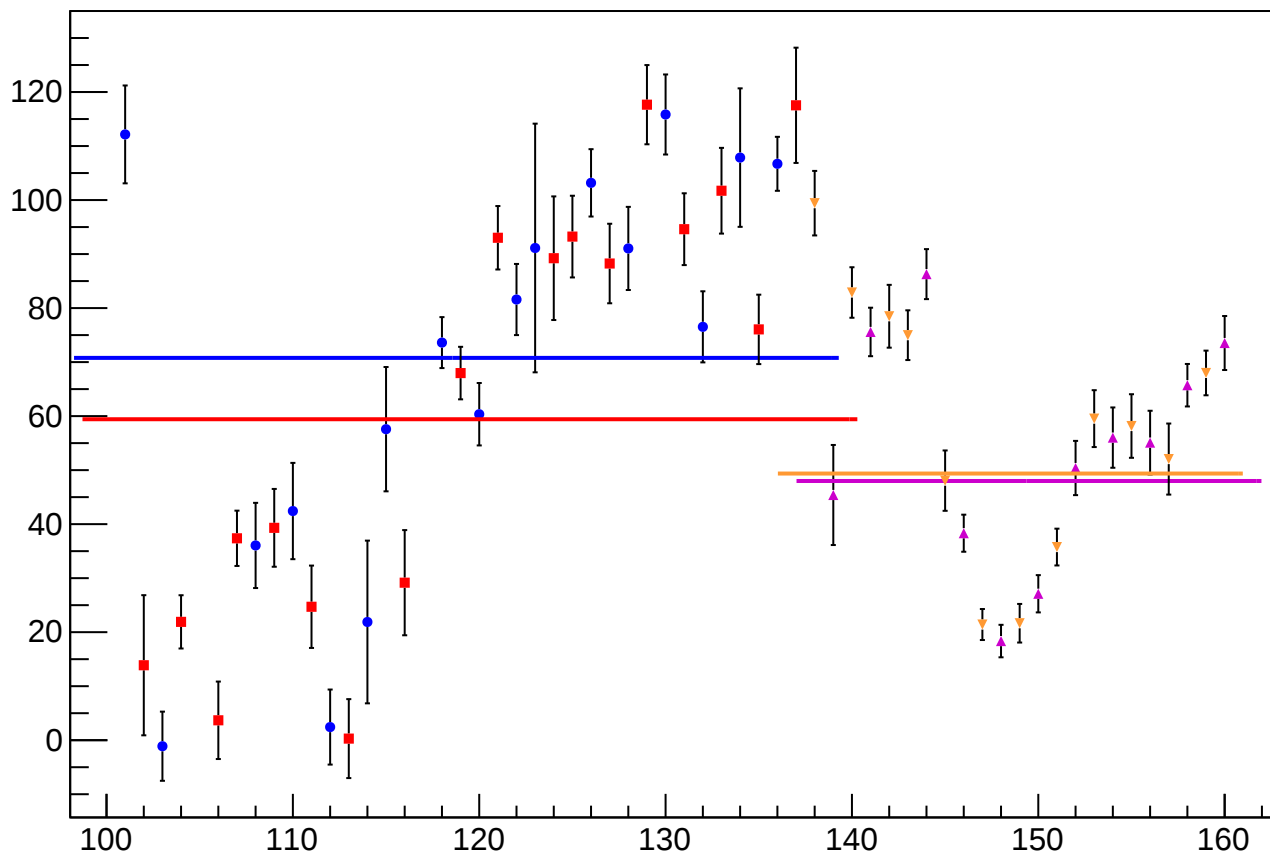
Right: 357.739 $\pm$ 1.880  $\chi^2$ /NDF: 5882.3/34

In: 306.565 $\pm$ 1.371  $\chi^2$ /NDF:3475.5/27

Out: 300.621 $\pm$ 1.342  $\chi^2$ /NDF:4272.3/29

All: 303.529 $\pm$ 0.959  $\chi^2$ /NDF: 7757.5/57

reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 70.780+/-1.747  $\chi^2$ /NDF: 423.9/16

Left Out: 49.368+/-1.275  $\chi^2$ /NDF:375.1/11

Right Out: 59.421+/-1.632  $\chi^2$ /NDF: 486.6/17

Left In: 47.989+/-1.299  $\chi^2$ /NDF:298.2/10

Left: 48.691+/-0.910  $\chi^2$ /NDF: 673.9/22

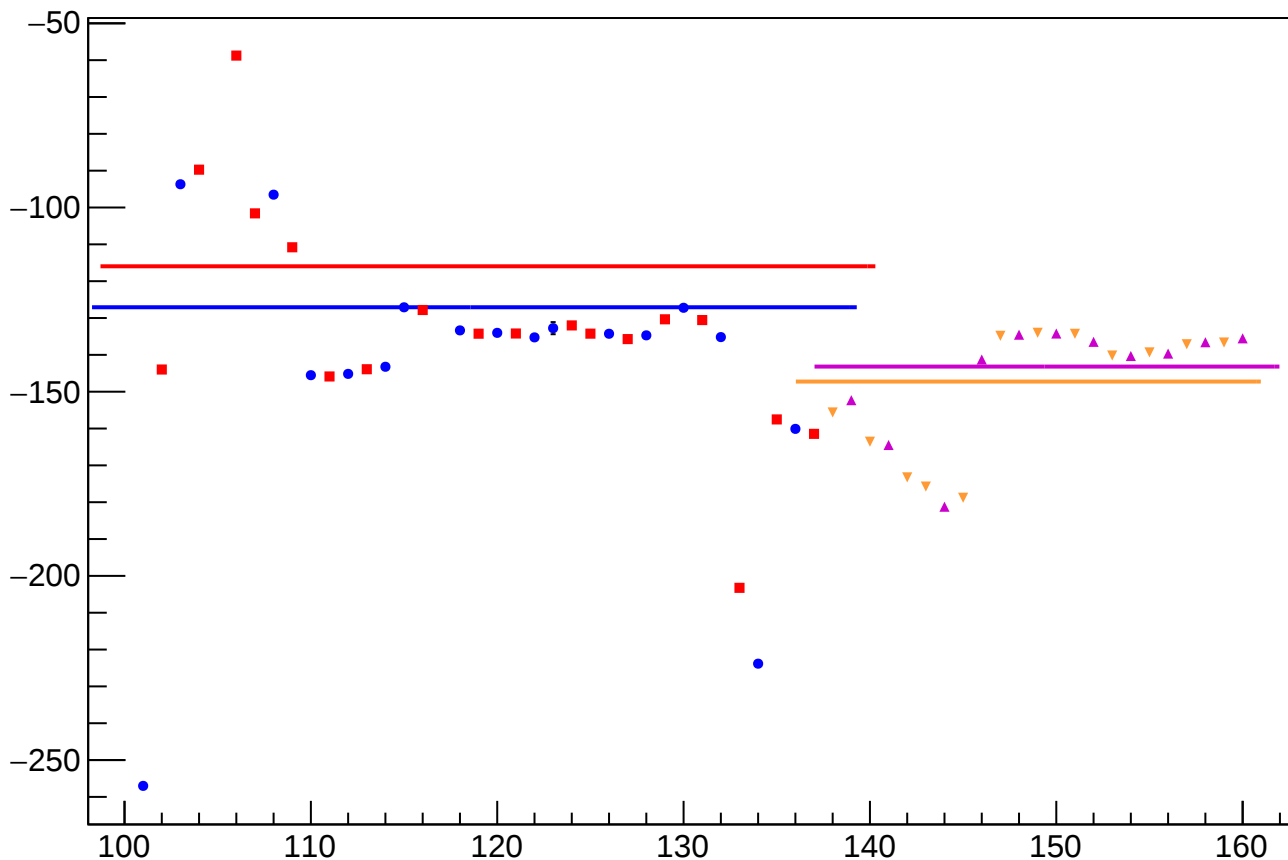
Right: 64.716+/-1.193  $\chi^2$ /NDF: 933.1/34

In: 56.106+/-1.042  $\chi^2$ /NDF:831.7/27

Out: 53.178+/-1.005  $\chi^2$ /NDF:885.3/29

All: 54.588+/-0.723  $\chi^2$ /NDF: 1721.1/57

reg\_asym\_atr\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -127.076+/-0.090  $\chi^2/\text{NDF}$ : 167028.9/16

Left Out: -147.246+/-0.064  $\chi^2/\text{NDF}$ : 64709.4/11

Right Out: -115.959+/-0.083  $\chi^2/\text{NDF}$ : 158983.0/17

Left In: -143.181+/-0.063  $\chi^2/\text{NDF}$ : 41800.9/10

Left: -145.181+/-0.045  $\chi^2/\text{NDF}$ : 108580.9/22

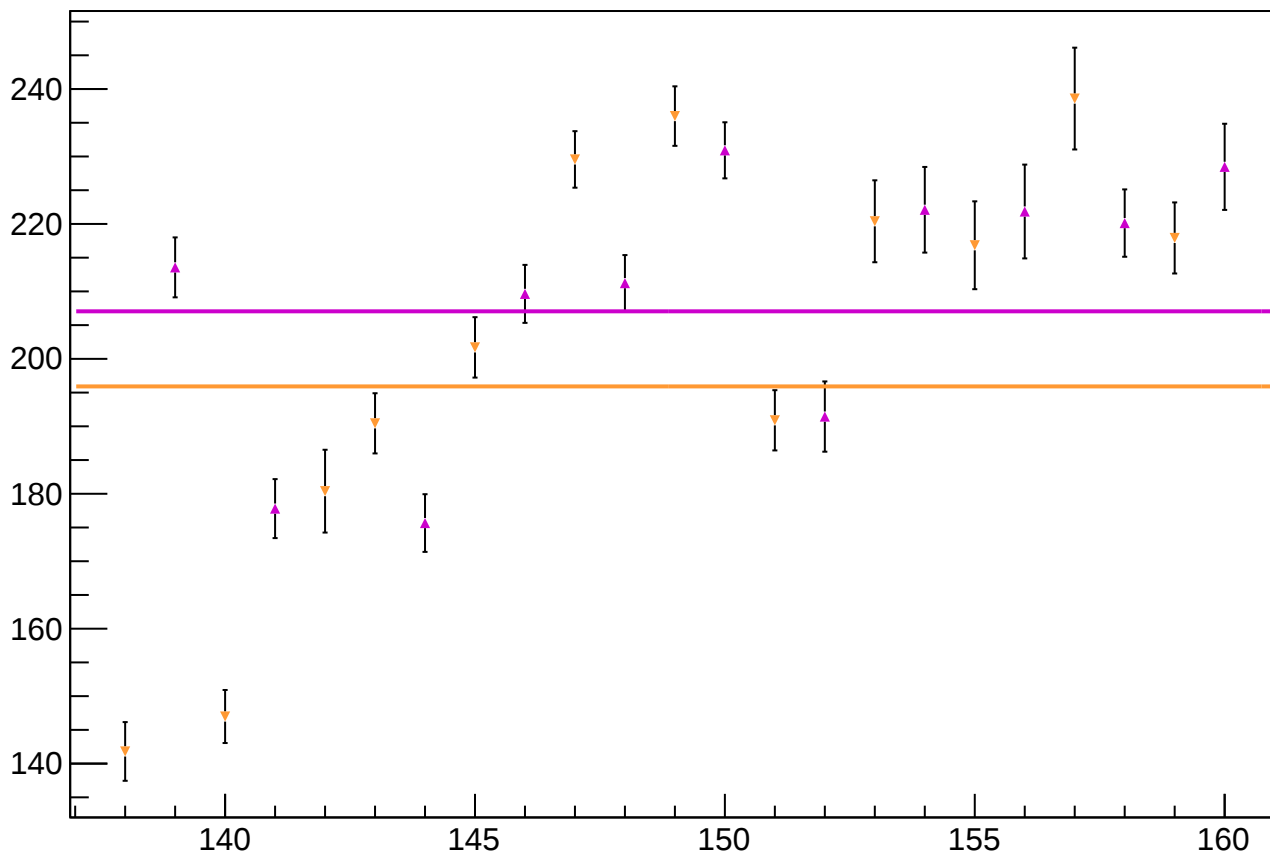
Right: -121.099+/-0.061  $\chi^2/\text{NDF}$ : 334303.0/34

In: -137.886+/-0.051  $\chi^2/\text{NDF}$ : 230550.1/27

Out: -135.655+/-0.051  $\chi^2/\text{NDF}$ : 313108.9/29

All: -136.753+/-0.036  $\chi^2/\text{NDF}$ : 544618.0/57

reg\_asym\_atr\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 195.915+/-1.404  $\chi^2/\text{NDF}$ :543.5/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 207.047+/-1.452  $\chi^2/\text{NDF}$ :172.3/10

Left: 201.297+/-1.009  $\chi^2/\text{NDF}$ : 746.2/22

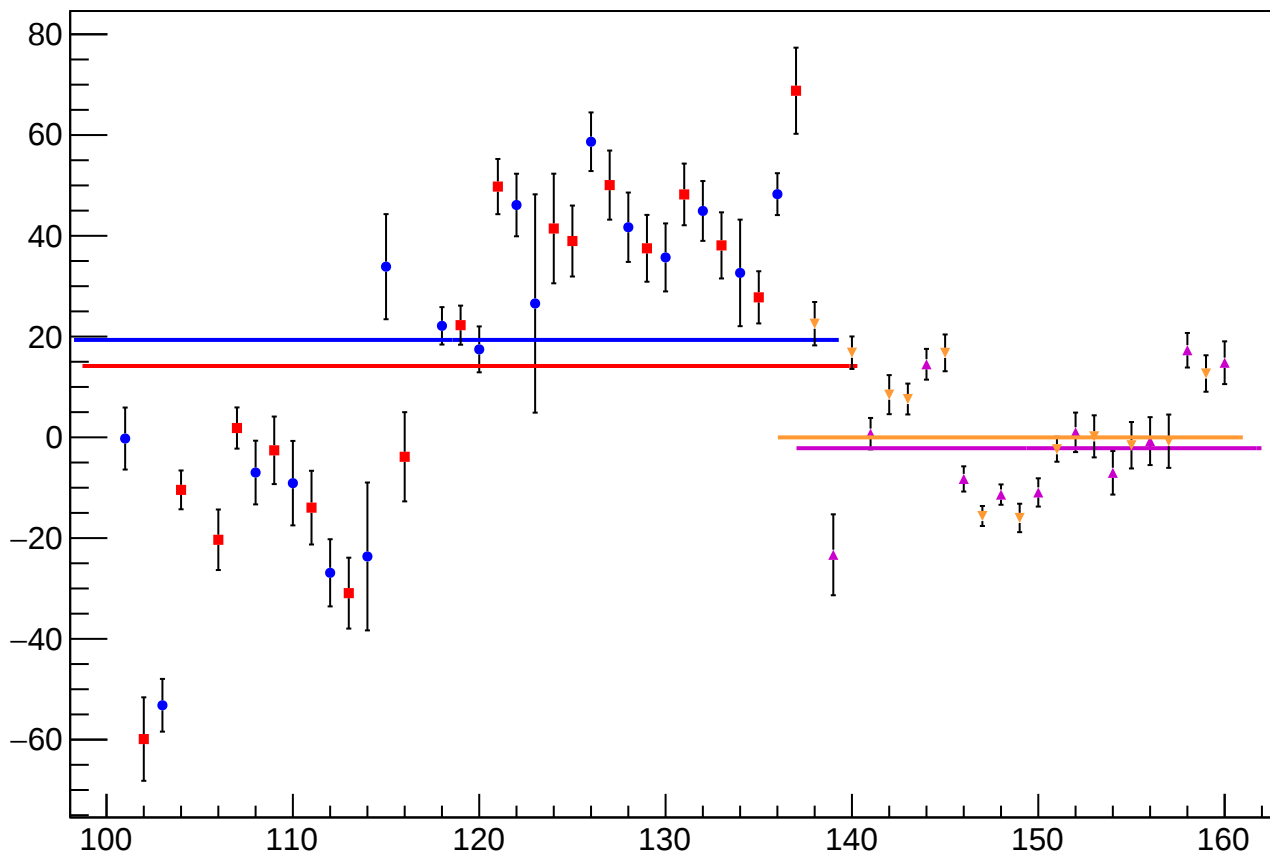
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 207.047+/-1.452  $\chi^2/\text{NDF}$ :172.3/10

Out: 195.915+/-1.404  $\chi^2/\text{NDF}$ :543.5/11

All: 201.297+/-1.009  $\chi^2/\text{NDF}$ : 746.2/22

reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $19.337 \pm 1.482$   $\chi^2/\text{NDF}: 439.8/16$

Left Out:  $-0.010 \pm 0.930$   $\chi^2/\text{NDF}: 193.9/11$

Right Out:  $14.162 \pm 1.391$   $\chi^2/\text{NDF}: 426.0/17$

Left In:  $-2.156 \pm 0.971$   $\chi^2/\text{NDF}: 124.2/10$

Left:  $-1.037 \pm 0.671$   $\chi^2/\text{NDF}: 320.7/22$

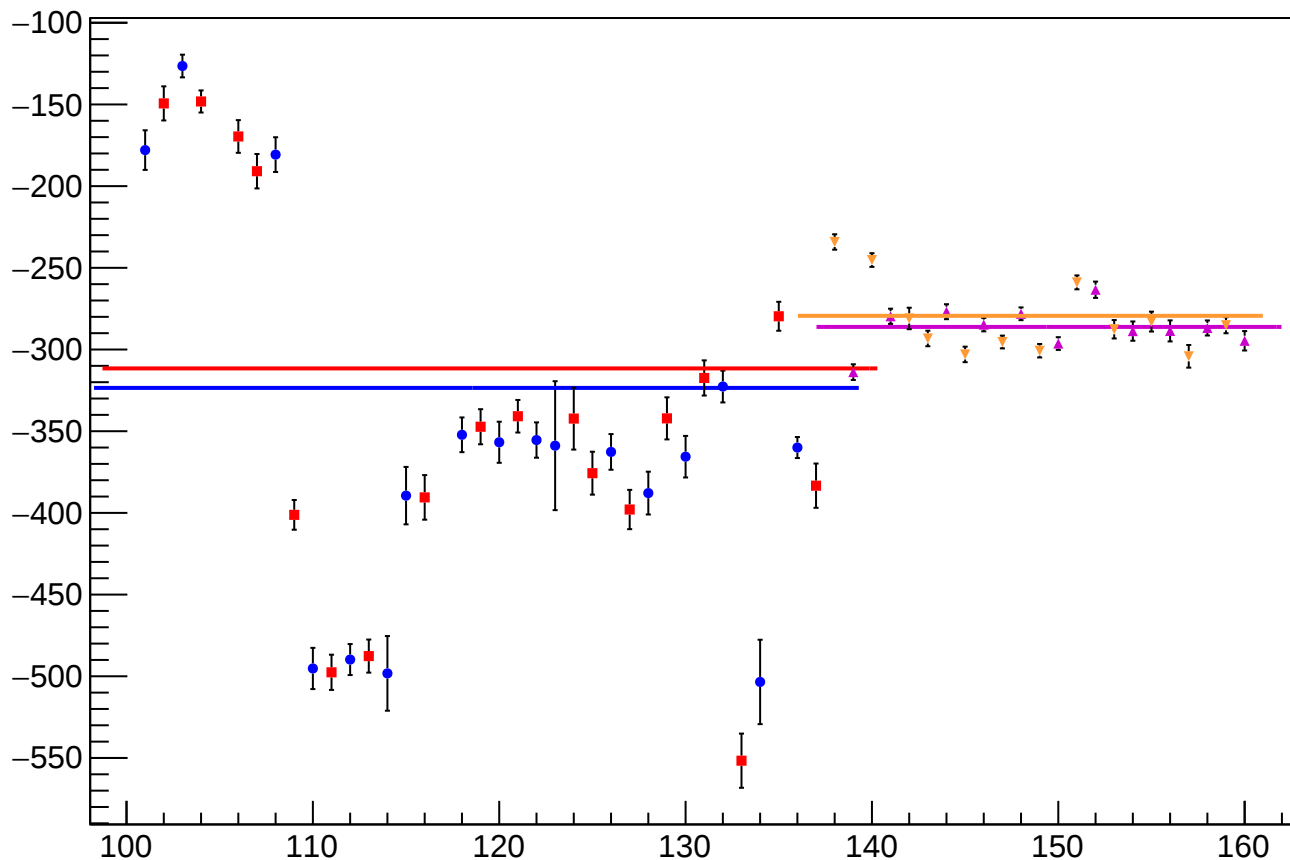
Right:  $16.585 \pm 1.014$   $\chi^2/\text{NDF}: 872.4/34$

In:  $4.295 \pm 0.812$   $\chi^2/\text{NDF}: 711.2/27$

Out:  $4.365 \pm 0.773$   $\chi^2/\text{NDF}: 691.7/29$

All:  $4.332 \pm 0.560$   $\chi^2/\text{NDF}: 1402.9/57$

reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-323.491 \pm 2.673$   $\chi^2/\text{NDF}: 1847.6/16$

Left Out:  $-279.381 \pm 1.394$   $\chi^2/\text{NDF}: 275.1/11$

Right Out:  $-311.573 \pm 2.527$   $\chi^2/\text{NDF}: 2243.8/17$

Left In:  $-286.166 \pm 1.419$   $\chi^2/\text{NDF}: 73.7/10$

Left:  $-282.715 \pm 0.994$   $\chi^2/\text{NDF}: 360.4/22$

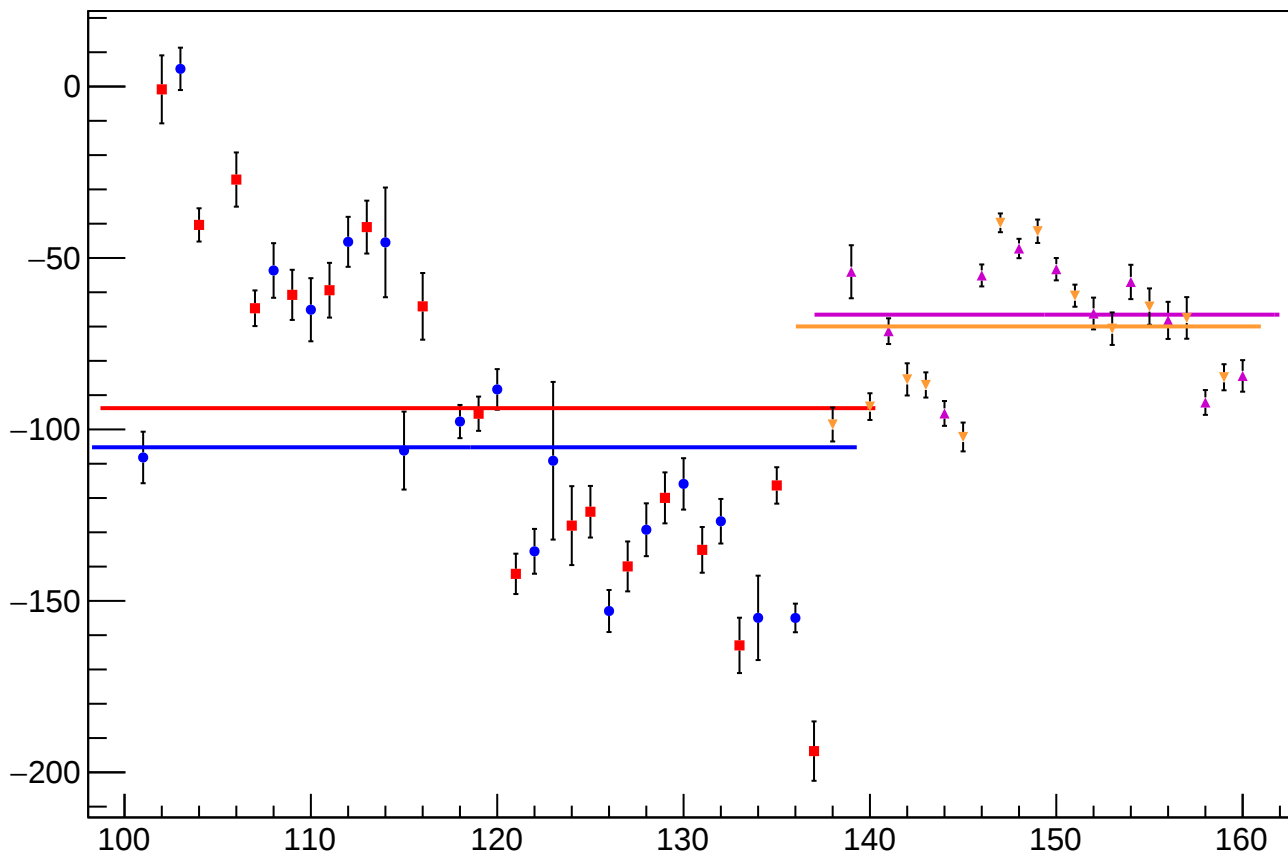
Right:  $-317.199 \pm 1.836$   $\chi^2/\text{NDF}: 4101.9/34$

In:  $-294.370 \pm 1.253$   $\chi^2/\text{NDF}: 2073.4/27$

Out:  $-286.895 \pm 1.221$   $\chi^2/\text{NDF}: 2643.3/29$

All:  $-290.535 \pm 0.874$   $\chi^2/\text{NDF}: 4735.0/57$

reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-105.203 \pm 1.697$   $\chi^2/\text{NDF}$ : 735.6/16

Left Out:  $-69.966 \pm 1.136$   $\chi^2/\text{NDF}$ : 372.8/11

Right Out:  $-93.793 \pm 1.611$   $\chi^2/\text{NDF}$ : 815.4/17

Left In:  $-66.531 \pm 1.174$   $\chi^2/\text{NDF}$ : 212.6/10

Left:  $-68.304 \pm 0.816$   $\chi^2/\text{NDF}$ : 589.8/22

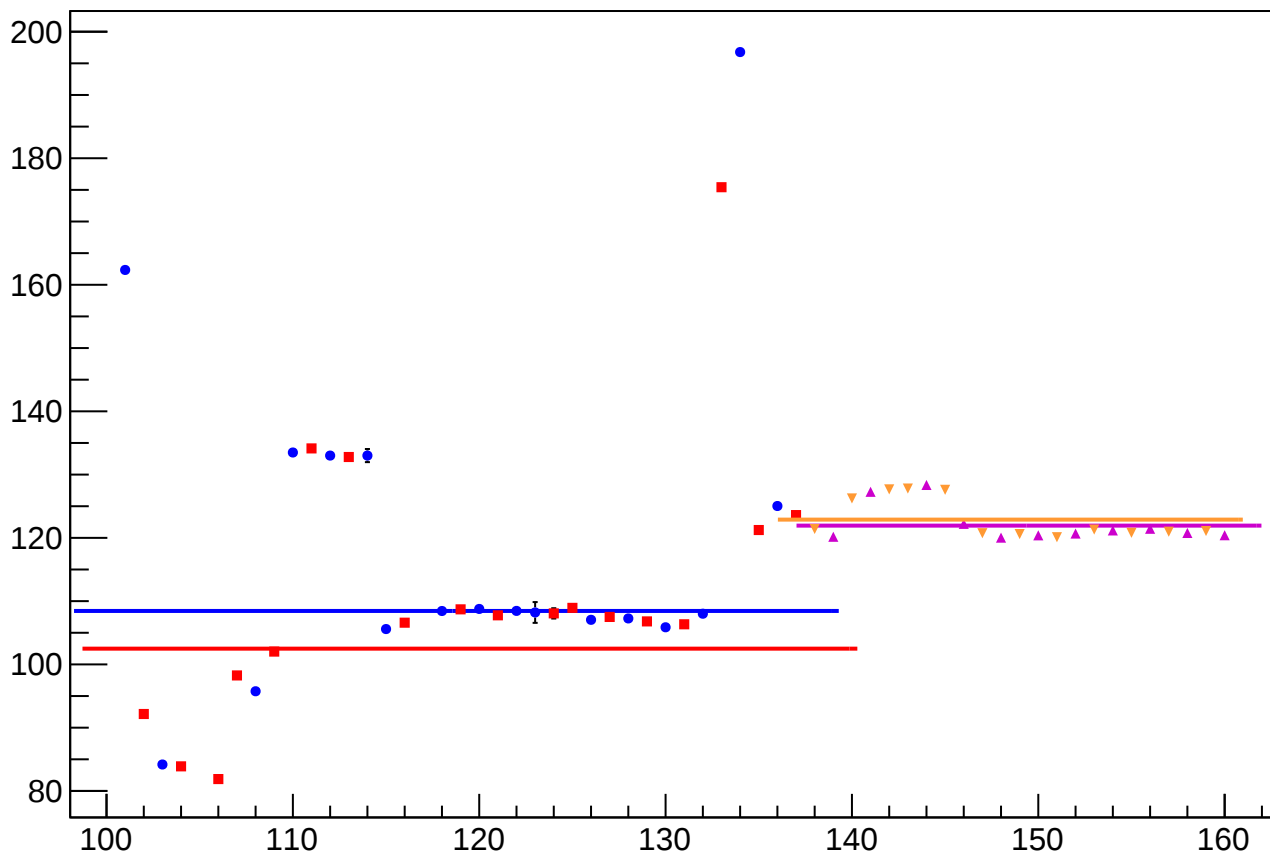
Right:  $-99.203 \pm 1.168$   $\chi^2/\text{NDF}$ : 1574.8/34

In:  $-79.048 \pm 0.965$   $\chi^2/\text{NDF}$ : 1299.6/27

Out:  $-77.880 \pm 0.929$   $\chi^2/\text{NDF}$ : 1334.3/29

All:  $-78.441 \pm 0.669$   $\chi^2/\text{NDF}$ : 2634.6/57

reg\_asym\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 108.448+/-0.085  $\chi^2/\text{NDF}$ : 73265.3/16

Left Out: 122.884+/-0.056  $\chi^2/\text{NDF}$ : 2873.9/11

Right Out: 102.490+/-0.080  $\chi^2/\text{NDF}$ : 52909.2/17

Left In: 121.935+/-0.056  $\chi^2/\text{NDF}$ : 2326.1/10

Left: 122.410+/-0.040  $\chi^2/\text{NDF}$ : 5342.4/22

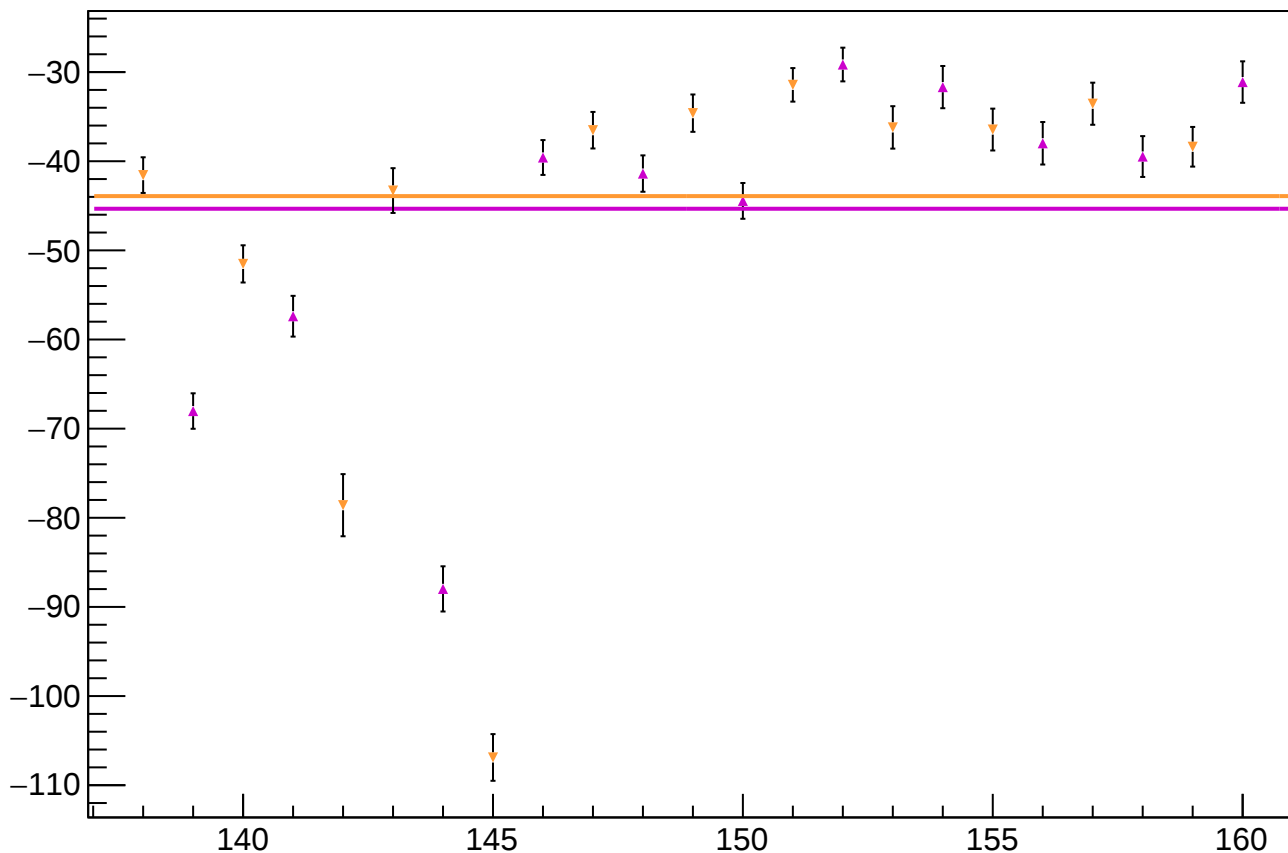
Right: 105.281+/-0.058  $\chi^2/\text{NDF}$ : 128799.0/34

In: 117.818+/-0.047  $\chi^2/\text{NDF}$ : 93167.2/27

Out: 116.097+/-0.046  $\chi^2/\text{NDF}$ : 99578.2/29

All: 116.940+/-0.033  $\chi^2/\text{NDF}$ : 193433.2/57

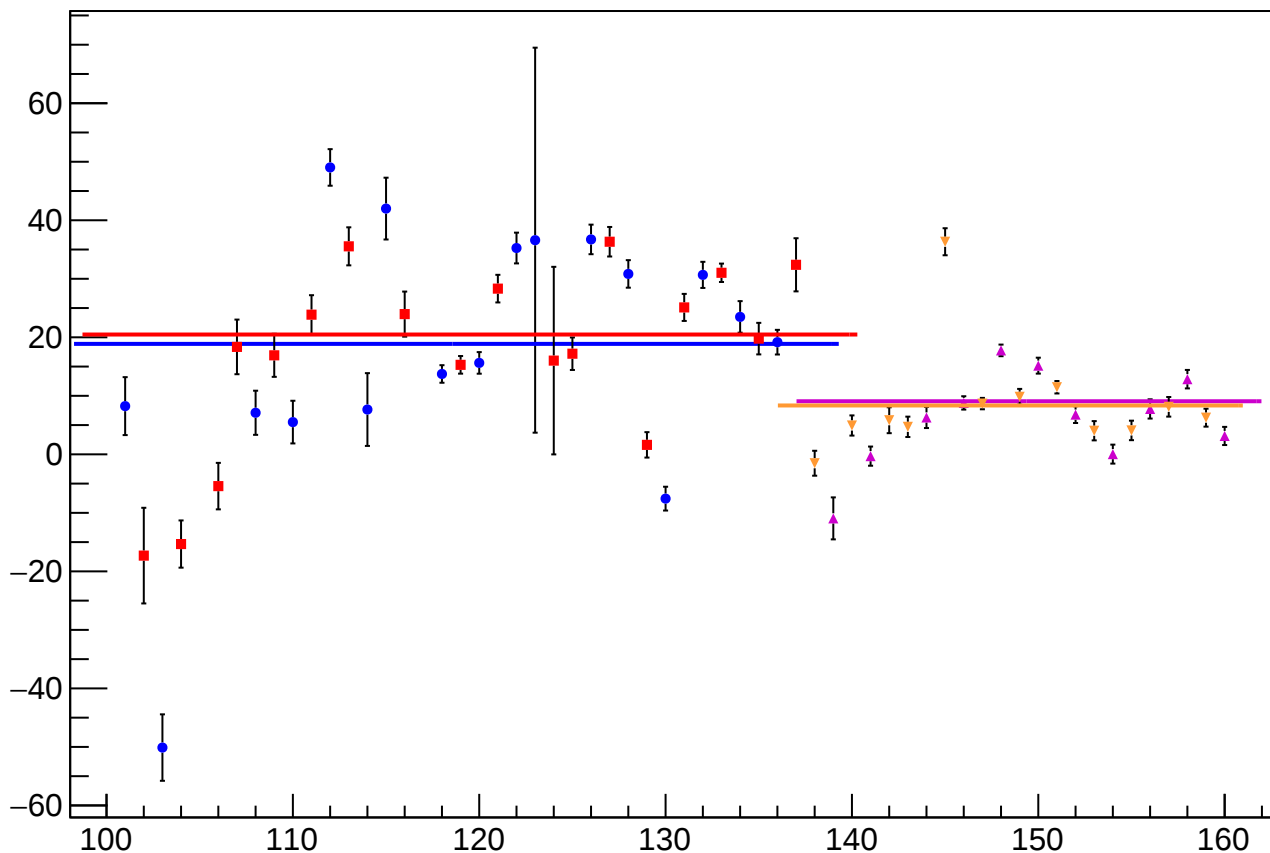
reg\_asym\_at1\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -43.913+/-0.652  $\chi^2/\text{NDF}$ :814.6/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -45.331+/-0.651  $\chi^2/\text{NDF}$ :613.2/10

Left: -44.623+/-0.461  $\chi^2/\text{NDF}$ : 1430.1/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: -45.331+/-0.651  $\chi^2/\text{NDF}$ :613.2/10  
 Out: -43.913+/-0.652  $\chi^2/\text{NDF}$ :814.6/11  
 All: -44.623+/-0.461  $\chi^2/\text{NDF}$ : 1430.1/22

reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 18.876 $\pm$ 0.644  $\chi^2$ /NDF: 620.5/16

Left Out: 8.351 $\pm$ 0.435  $\chi^2$ /NDF:203.0/11

Right Out: 20.474 $\pm$ 0.644  $\chi^2$ /NDF: 362.4/17

Left In: 9.072 $\pm$ 0.441  $\chi^2$ /NDF:217.6/10

Left: 8.706 $\pm$ 0.310  $\chi^2$ /NDF: 421.9/22

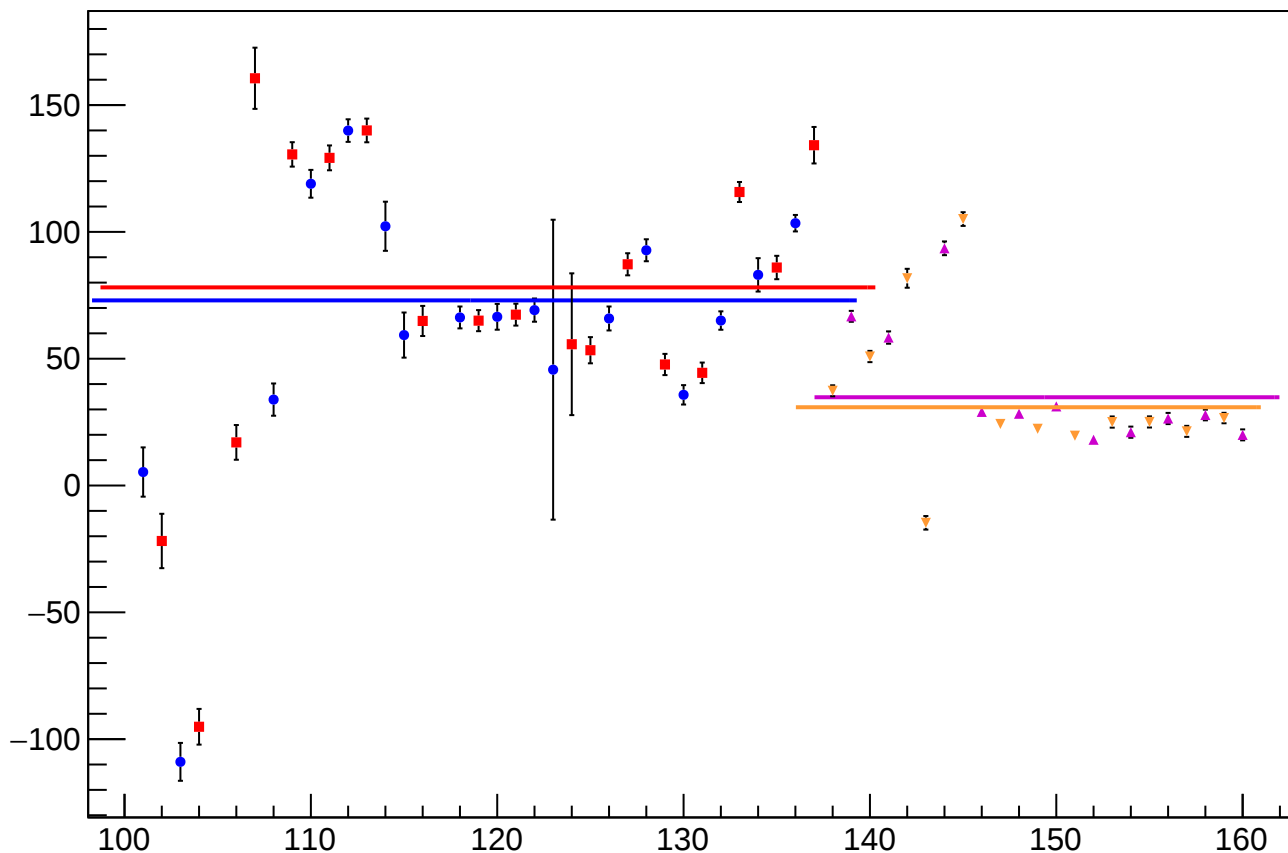
Right: 19.676 $\pm$ 0.455  $\chi^2$ /NDF: 986.0/34

In: 12.201 $\pm$ 0.364  $\chi^2$ /NDF:995.7/27

Out: 12.156 $\pm$ 0.361  $\chi^2$ /NDF:808.9/29

All: 12.178 $\pm$ 0.256  $\chi^2$ /NDF: 1804.6/57

reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 72.992 $\pm$ 1.230  $\chi^2$ /NDF: 1205.5/16

Left Out: 30.864 $\pm$ 0.637  $\chi^2$ /NDF:1424.8/11

Right Out: 78.119 $\pm$ 1.224  $\chi^2$ /NDF: 1546.8/17

Left In: 34.802 $\pm$ 0.630  $\chi^2$ /NDF:1004.0/10

Left: 32.854 $\pm$ 0.448  $\chi^2$ /NDF: 2448.1/22

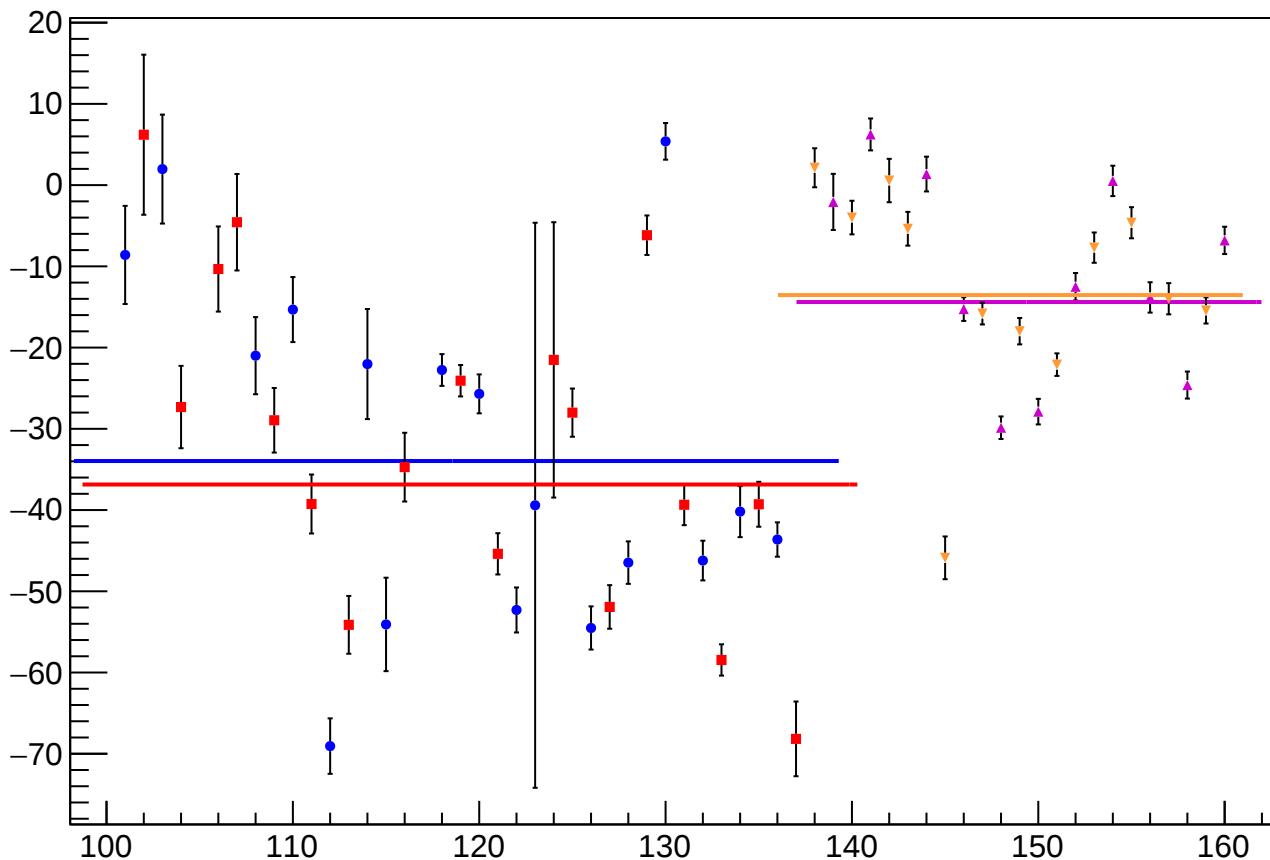
Right: 75.568 $\pm$ 0.868  $\chi^2$ /NDF: 2761.0/34

In: 42.746 $\pm$ 0.561  $\chi^2$ /NDF:2973.0/27

Out: 40.941 $\pm$ 0.565  $\chi^2$ /NDF:4144.5/29

All: 41.850 $\pm$ 0.398  $\chi^2$ /NDF: 7122.6/57

reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-33.964 \pm 0.738$   $\chi^2/\text{NDF}$ : 721.9/16

Left Out:  $-13.537 \pm 0.528$   $\chi^2/\text{NDF}$ : 339.6/11

Right Out:  $-36.856 \pm 0.737$   $\chi^2/\text{NDF}$ : 535.3/17

Left In:  $-14.392 \pm 0.528$   $\chi^2/\text{NDF}$ : 497.7/10

Left:  $-13.964 \pm 0.373$   $\chi^2/\text{NDF}$ : 838.6/22

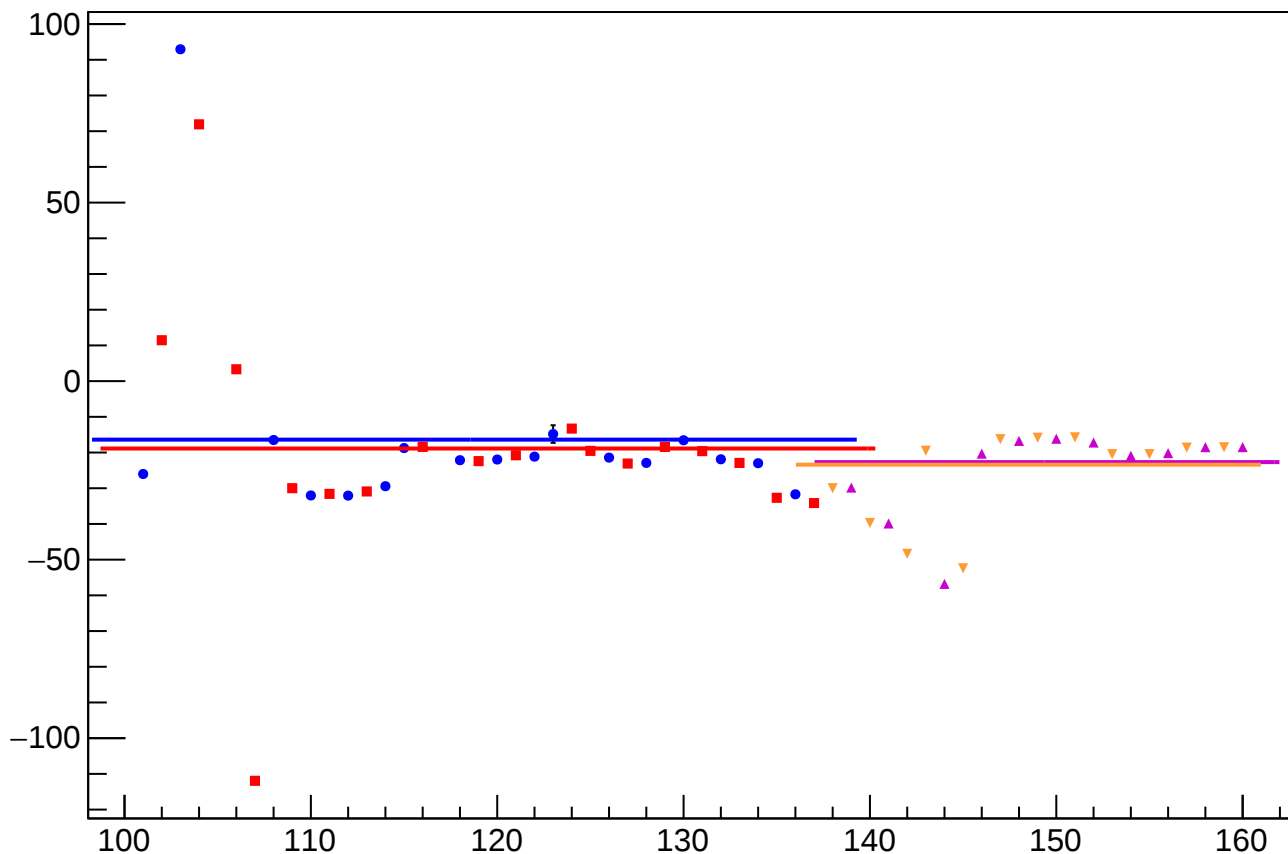
Right:  $-35.411 \pm 0.521$   $\chi^2/\text{NDF}$ : 1264.9/34

In:  $-21.025 \pm 0.429$   $\chi^2/\text{NDF}$ : 1685.2/27

Out:  $-21.438 \pm 0.429$   $\chi^2/\text{NDF}$ : 1536.9/29

All:  $-21.232 \pm 0.303$   $\chi^2/\text{NDF}$ : 3222.6/57

reg\_asym\_at1\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-16.386 \pm 0.044$   $\chi^2/\text{NDF}: 474297.3/16$

Left Out:  $-23.401 \pm 0.025$   $\chi^2/\text{NDF}: 172458.6/11$

Right Out:  $-18.873 \pm 0.045$   $\chi^2/\text{NDF}: 433372.4/17$

Left In:  $-22.680 \pm 0.024$   $\chi^2/\text{NDF}: 147790.0/10$

Left:  $-23.033 \pm 0.018$   $\chi^2/\text{NDF}: 320673.1/22$

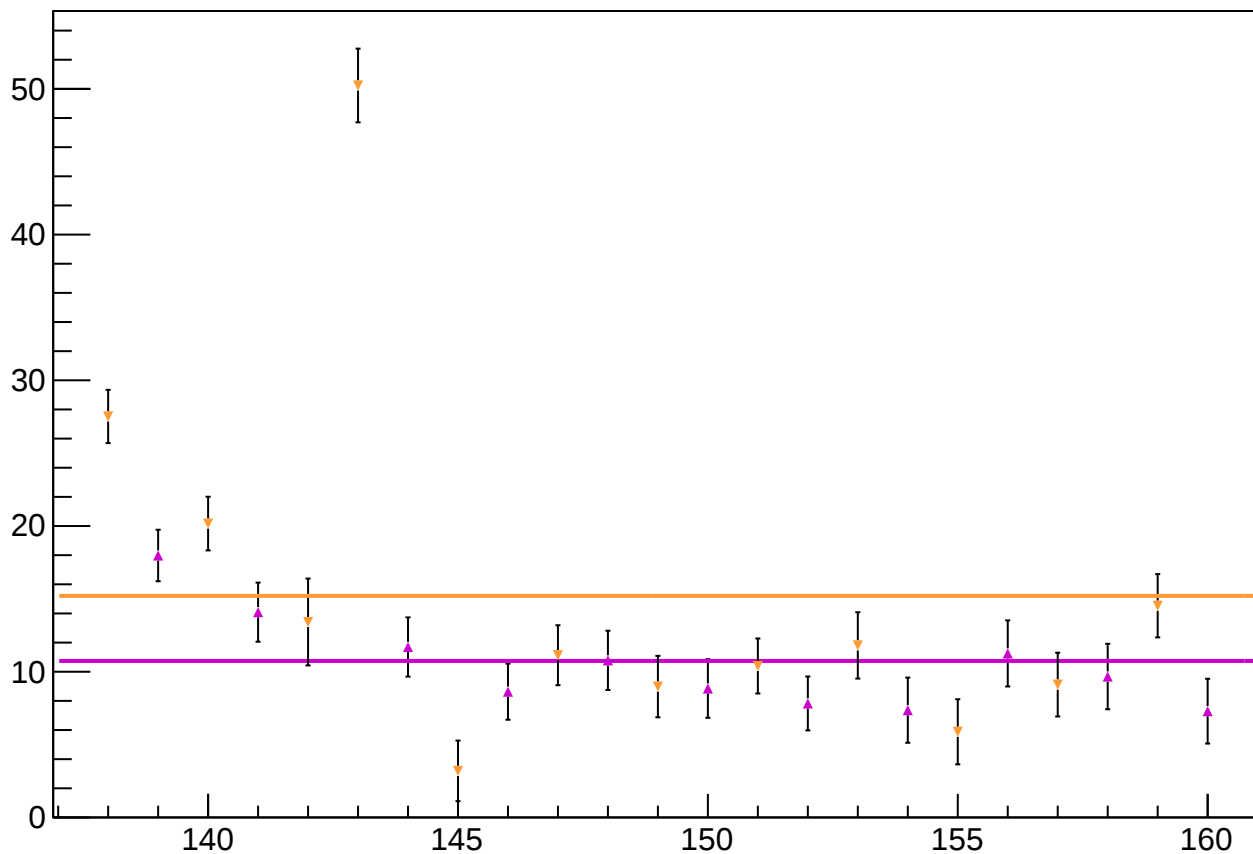
Right:  $-17.607 \pm 0.032$   $\chi^2/\text{NDF}: 909205.2/34$

In:  $-21.215 \pm 0.021$   $\chi^2/\text{NDF}: 637457.9/27$

Out:  $-22.342 \pm 0.022$   $\chi^2/\text{NDF}: 613488.2/29$

All:  $-21.767 \pm 0.015$   $\chi^2/\text{NDF}: 1252297.6/57$

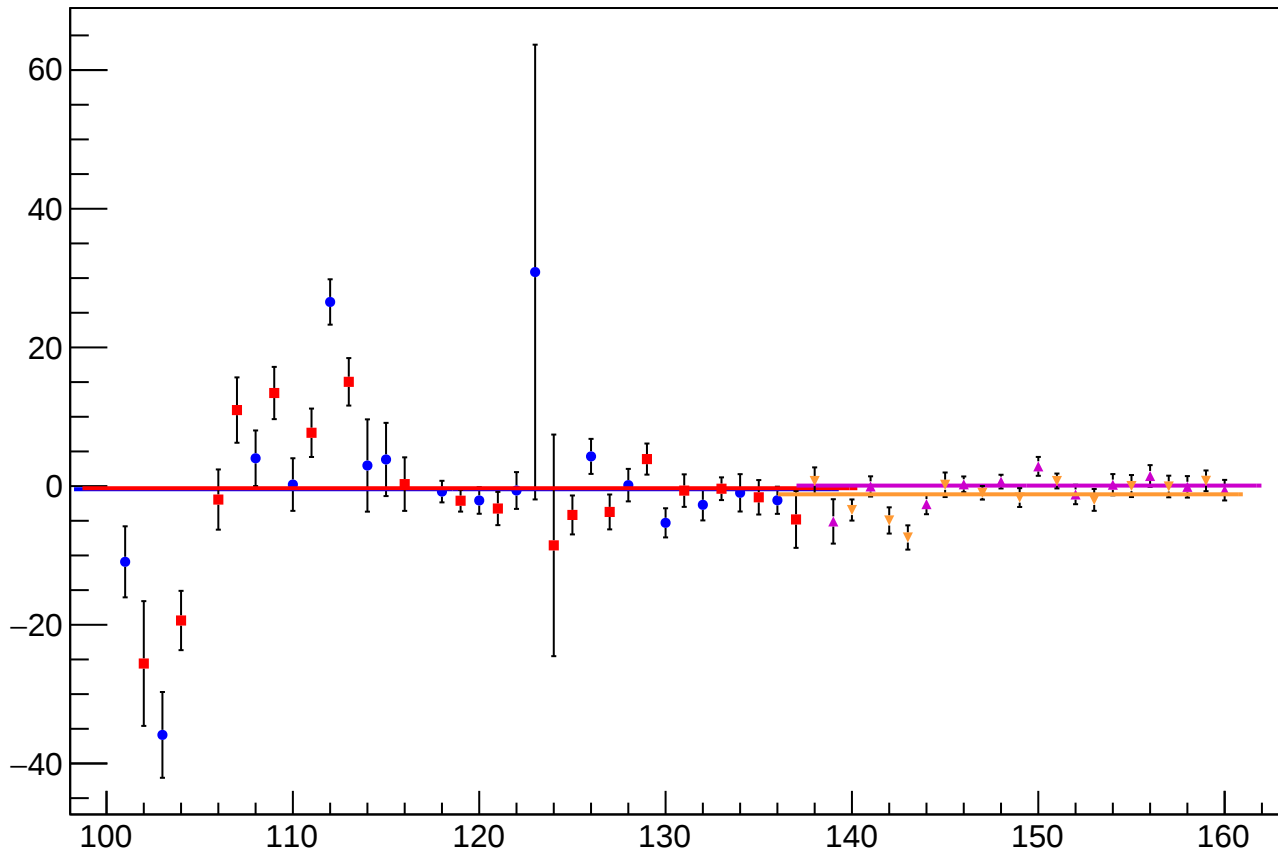
reg\_asym\_at1\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: 15.206+/-0.614  $\chi^2/\text{NDF}$ :325.1/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: 10.740+/-0.614  $\chi^2/\text{NDF}$ :29.3/10

Left: 12.973+/-0.434  $\chi^2/\text{NDF}$ : 380.8/22  
 Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 In: 10.740+/-0.614  $\chi^2/\text{NDF}$ :29.3/10  
 Out: 15.206+/-0.614  $\chi^2/\text{NDF}$ :325.1/11  
 All: 12.973+/-0.434  $\chi^2/\text{NDF}$ : 380.8/22

reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-0.452 \pm 0.654$   $\chi^2/\text{NDF}$ : 119.5/16

Left Out:  $-1.182 \pm 0.418$   $\chi^2/\text{NDF}$ : 26.8/11

Right Out:  $-0.305 \pm 0.657$   $\chi^2/\text{NDF}$ : 84.1/17

Left In:  $0.075 \pm 0.423$   $\chi^2/\text{NDF}$ : 12.3/10

Left:  $-0.561 \pm 0.297$   $\chi^2/\text{NDF}$ : 43.6/22

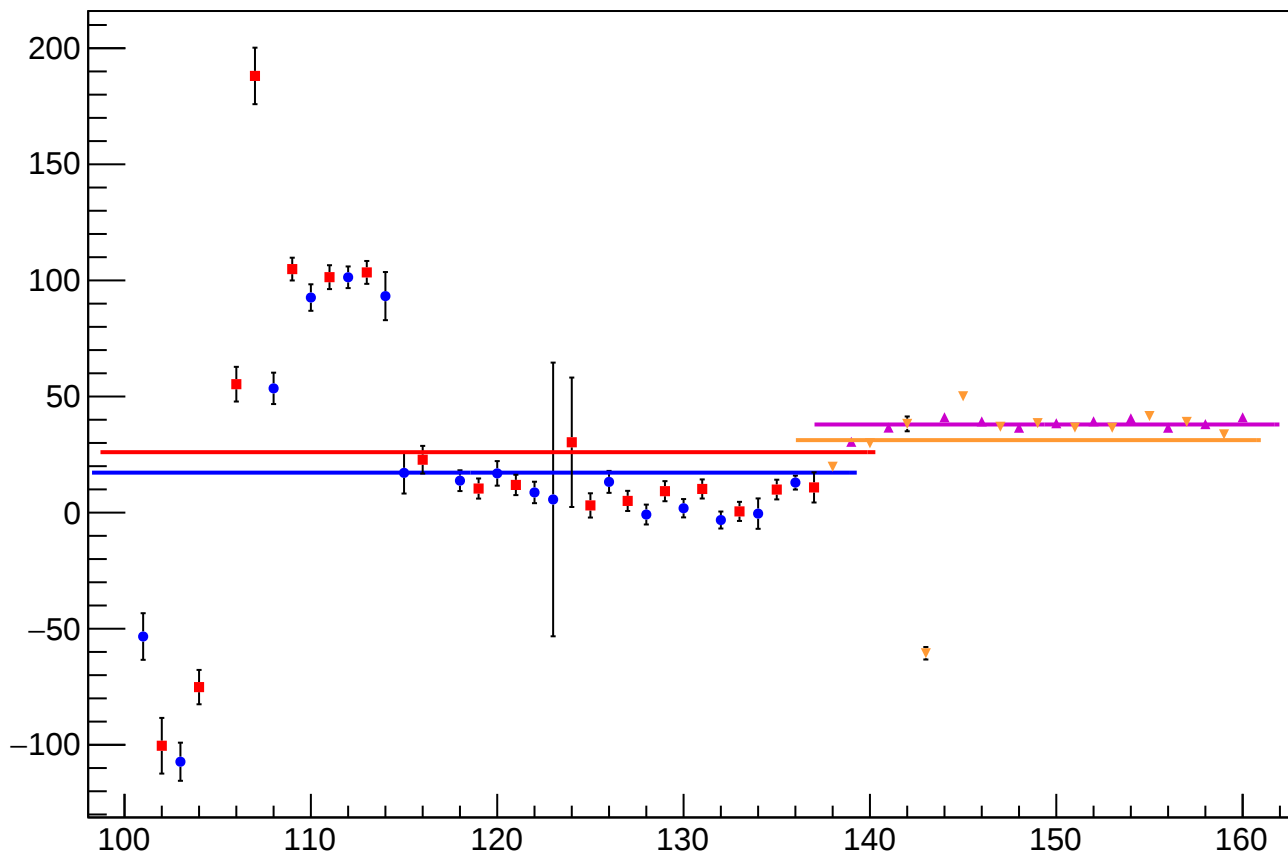
Right:  $-0.379 \pm 0.464$   $\chi^2/\text{NDF}$ : 203.7/34

In:  $-0.080 \pm 0.355$   $\chi^2/\text{NDF}$ : 132.3/27

Out:  $-0.930 \pm 0.353$   $\chi^2/\text{NDF}$ : 112.2/29

All:  $-0.508 \pm 0.250$   $\chi^2/\text{NDF}$ : 247.4/57

reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $17.218 \pm 1.241$   $\chi^2/\text{NDF}: 940.1/16$

Left Out:  $31.220 \pm 0.604$   $\chi^2/\text{NDF}: 1352.0/11$

Right Out:  $26.032 \pm 1.244$   $\chi^2/\text{NDF}: 1366.0/17$

Left In:  $37.956 \pm 0.598$   $\chi^2/\text{NDF}: 23.7/10$

Left:  $34.620 \pm 0.425$   $\chi^2/\text{NDF}: 1438.5/22$

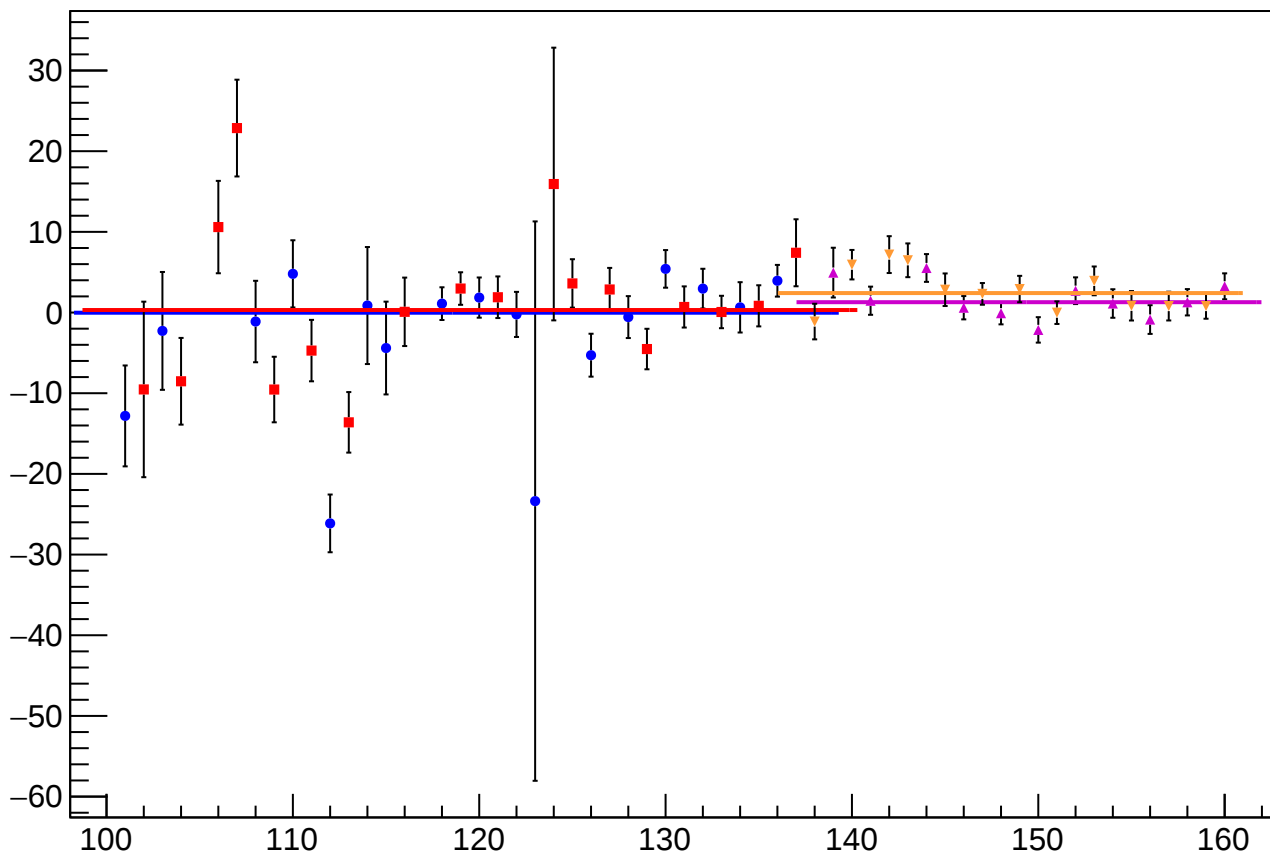
Right:  $21.614 \pm 0.879$   $\chi^2/\text{NDF}: 2331.3/34$

In:  $34.046 \pm 0.539$   $\chi^2/\text{NDF}: 1190.4/27$

Out:  $30.231 \pm 0.543$   $\chi^2/\text{NDF}: 2732.1/29$

All:  $32.154 \pm 0.383$   $\chi^2/\text{NDF}: 3947.4/57$

reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-0.022 \pm 0.745$   $\chi^2/\text{NDF}$ : 75.8/16

Left Out:  $2.414 \pm 0.504$   $\chi^2/\text{NDF}$ : 20.9/11

Right Out:  $0.311 \pm 0.749$   $\chi^2/\text{NDF}$ : 54.1/17

Left In:  $1.283 \pm 0.504$   $\chi^2/\text{NDF}$ : 17.1/10

Left:  $1.849 \pm 0.356$   $\chi^2/\text{NDF}$ : 40.5/22

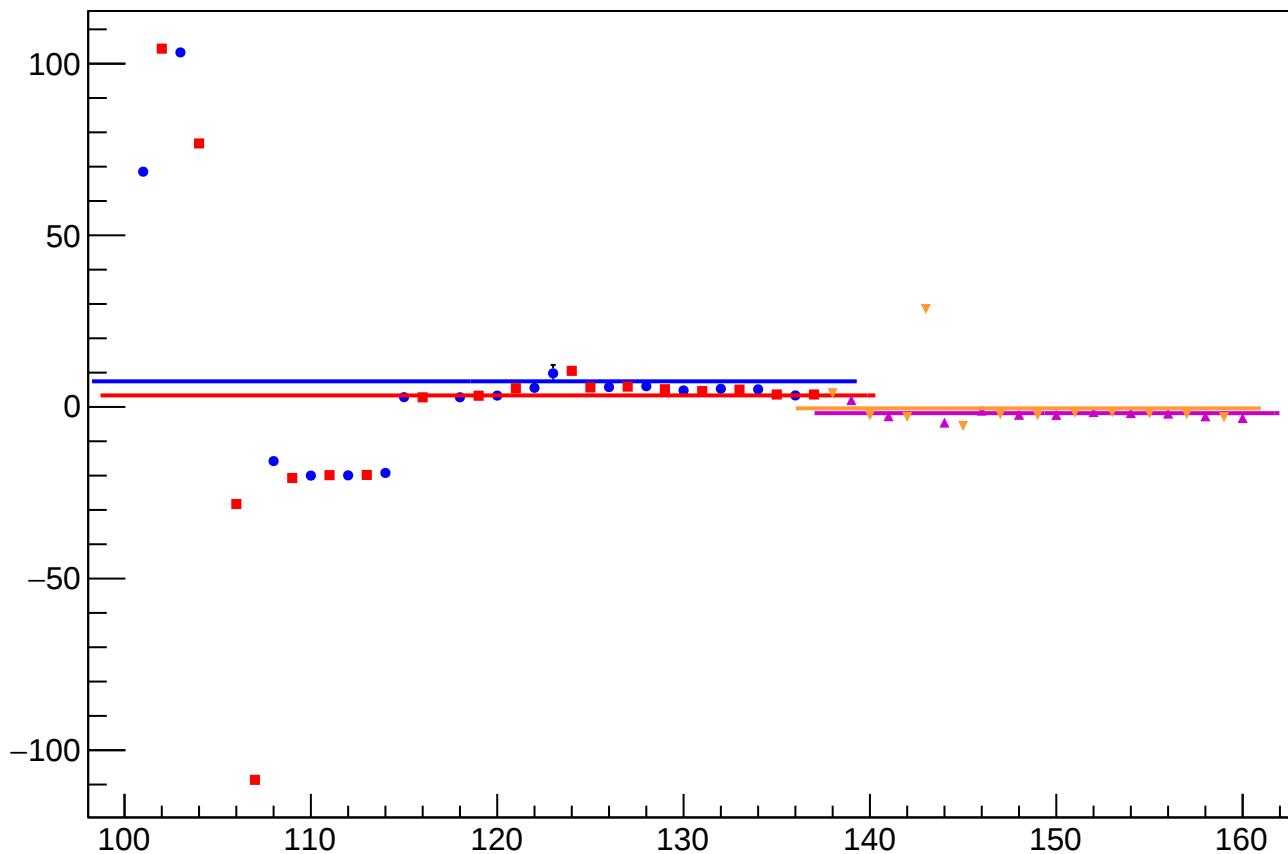
Right:  $0.144 \pm 0.528$   $\chi^2/\text{NDF}$ : 130.0/34

In:  $0.873 \pm 0.417$   $\chi^2/\text{NDF}$ : 95.1/27

Out:  $1.760 \pm 0.418$   $\chi^2/\text{NDF}$ : 80.4/29

All:  $1.316 \pm 0.295$   $\chi^2/\text{NDF}$ : 177.7/57

reg\_asym\_at1\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 7.467+/-0.044  $\chi^2/\text{NDF}$ : 355890.1/16

Left Out: -0.408+/-0.024  $\chi^2/\text{NDF}$ : 83083.4/11

Right Out: 3.362+/-0.046  $\chi^2/\text{NDF}$ : 504811.4/17

Left In: -1.807+/-0.023  $\chi^2/\text{NDF}$ : 4801.1/10

Left: -1.120+/-0.017  $\chi^2/\text{NDF}$ : 89669.0/22

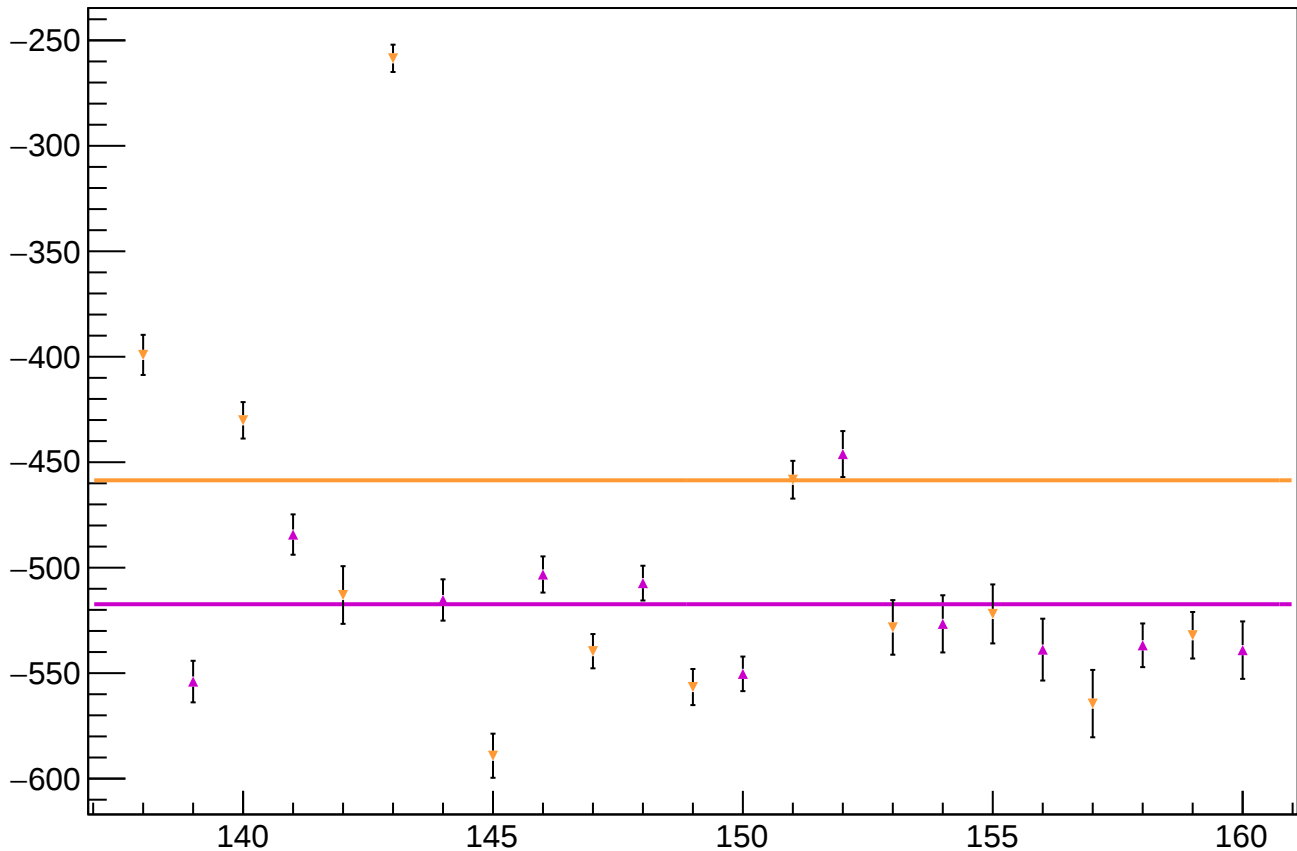
Right: 5.466+/-0.032  $\chi^2/\text{NDF}$ : 864856.4/34

In: 0.177+/-0.021  $\chi^2/\text{NDF}$ : 394875.5/27

Out: 0.389+/-0.021  $\chi^2/\text{NDF}$ : 593285.1/29

All: 0.281+/-0.015  $\chi^2/\text{NDF}$ : 988212.6/57

reg\_asym\_at2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -458.575+/-2.803  $\chi^2/\text{NDF}$ :1544.1/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -517.328+/-3.041  $\chi^2/\text{NDF}$ :97.5/10

Left: -485.558+/-2.061  $\chi^2/\text{NDF}$ : 1843.4/22

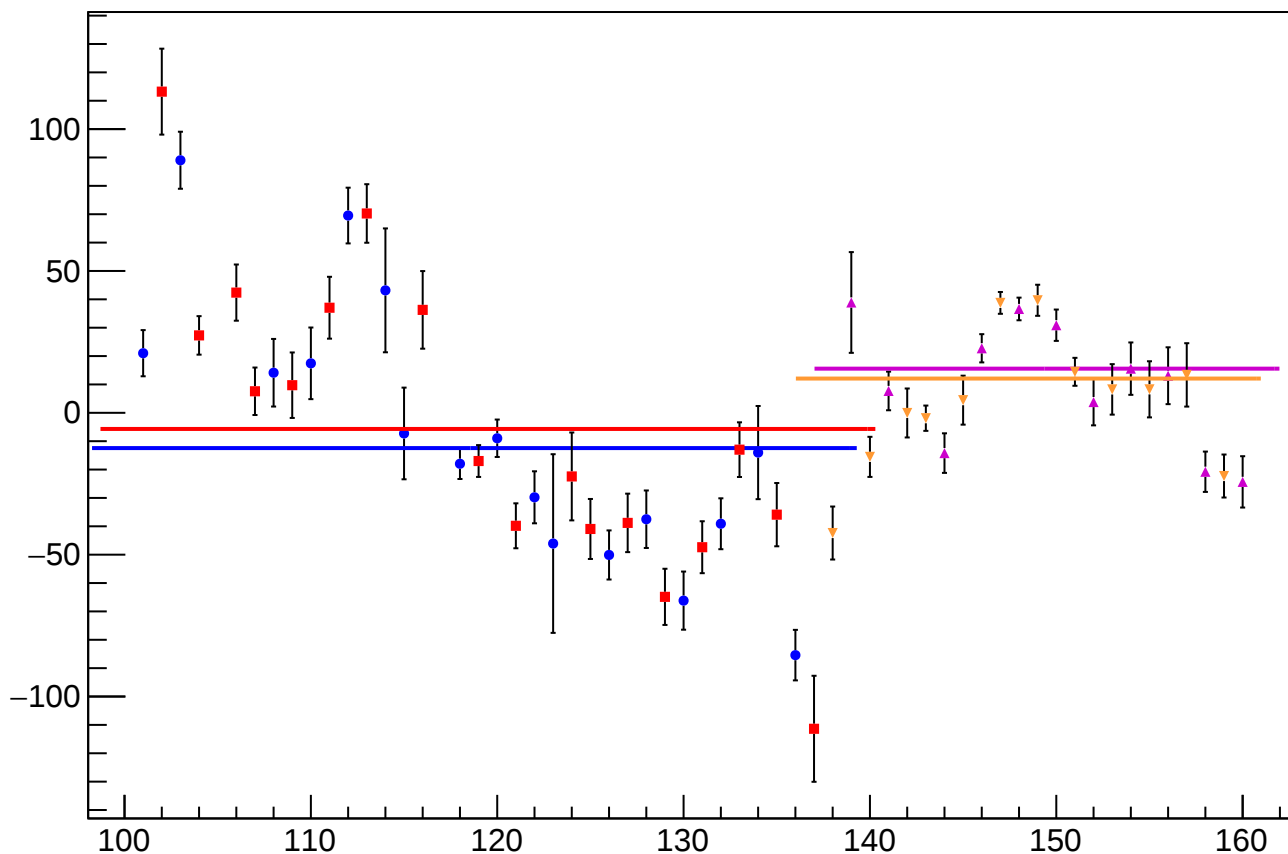
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -517.328+/-3.041  $\chi^2/\text{NDF}$ :97.5/10

Out: -458.575+/-2.803  $\chi^2/\text{NDF}$ :1544.1/11

All: -485.558+/-2.061  $\chi^2/\text{NDF}$ : 1843.4/22

reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: -12.431 $\pm$ 2.315  $\chi^2/\text{NDF}$ : 340.2/16

Left Out: 12.078 $\pm$ 1.829  $\chi^2/\text{NDF}$ :156.4/11

Right Out: -5.686 $\pm$ 2.263  $\chi^2/\text{NDF}$ : 333.7/17

Left In: 15.567 $\pm$ 2.001  $\chi^2/\text{NDF}$ :106.5/10

Left: 13.666 $\pm$ 1.350  $\chi^2/\text{NDF}$ : 264.6/22

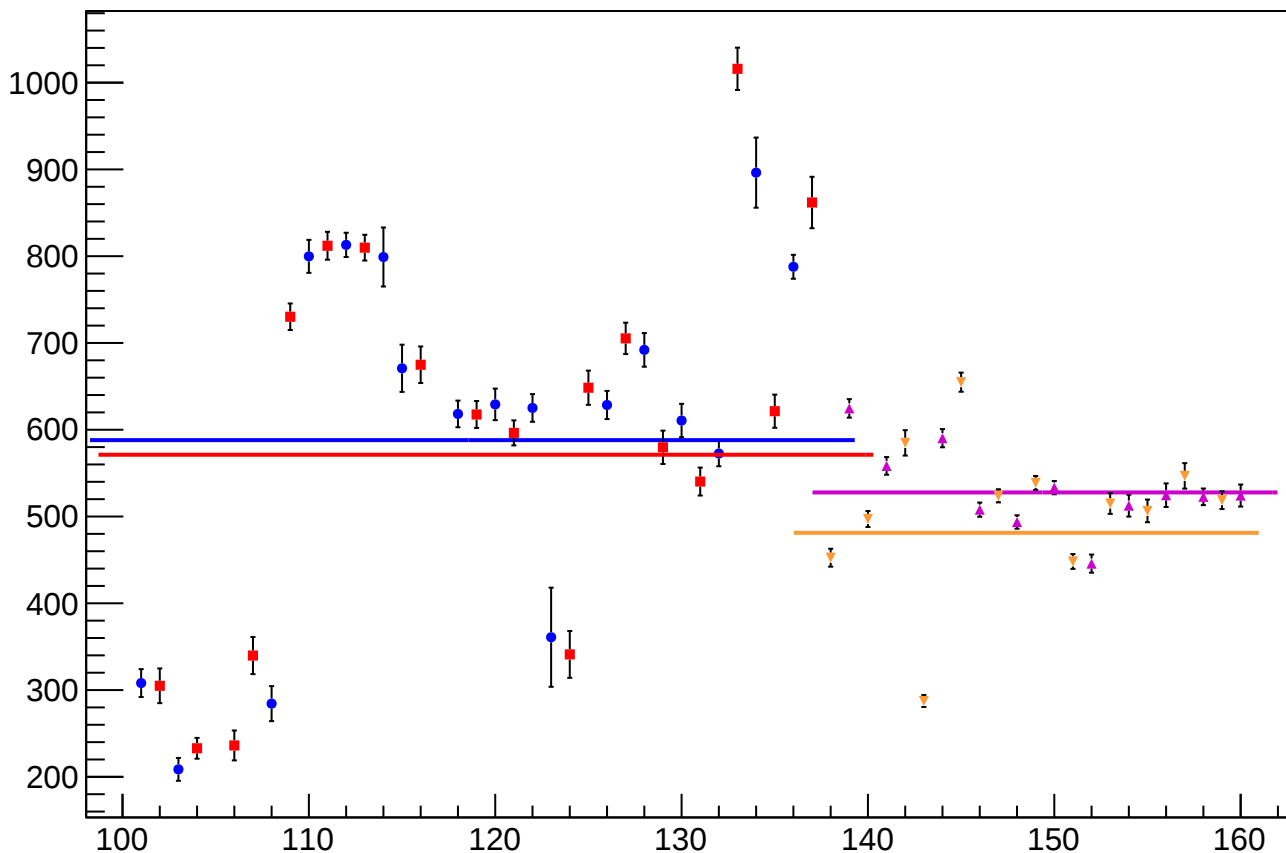
Right: -8.982 $\pm$ 1.618  $\chi^2/\text{NDF}$ : 678.2/34

In: 3.594 $\pm$ 1.514  $\chi^2/\text{NDF}$ :530.5/27

Out: 5.061 $\pm$ 1.422  $\chi^2/\text{NDF}$ :527.3/29

All: 4.373 $\pm$ 1.037  $\chi^2/\text{NDF}$ : 1058.3/57

reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 588.034 $\pm$ 4.329  $\chi^2$ /NDF: 2127.7/16

Left Out: 481.224 $\pm$ 2.786  $\chi^2$ /NDF:1239.5/11

Right Out: 571.196 $\pm$ 4.151  $\chi^2$ /NDF: 2680.4/17

Left In: 527.761 $\pm$ 2.958  $\chi^2$ /NDF:216.6/10

Left: 503.104 $\pm$ 2.028  $\chi^2$ /NDF: 1587.2/22

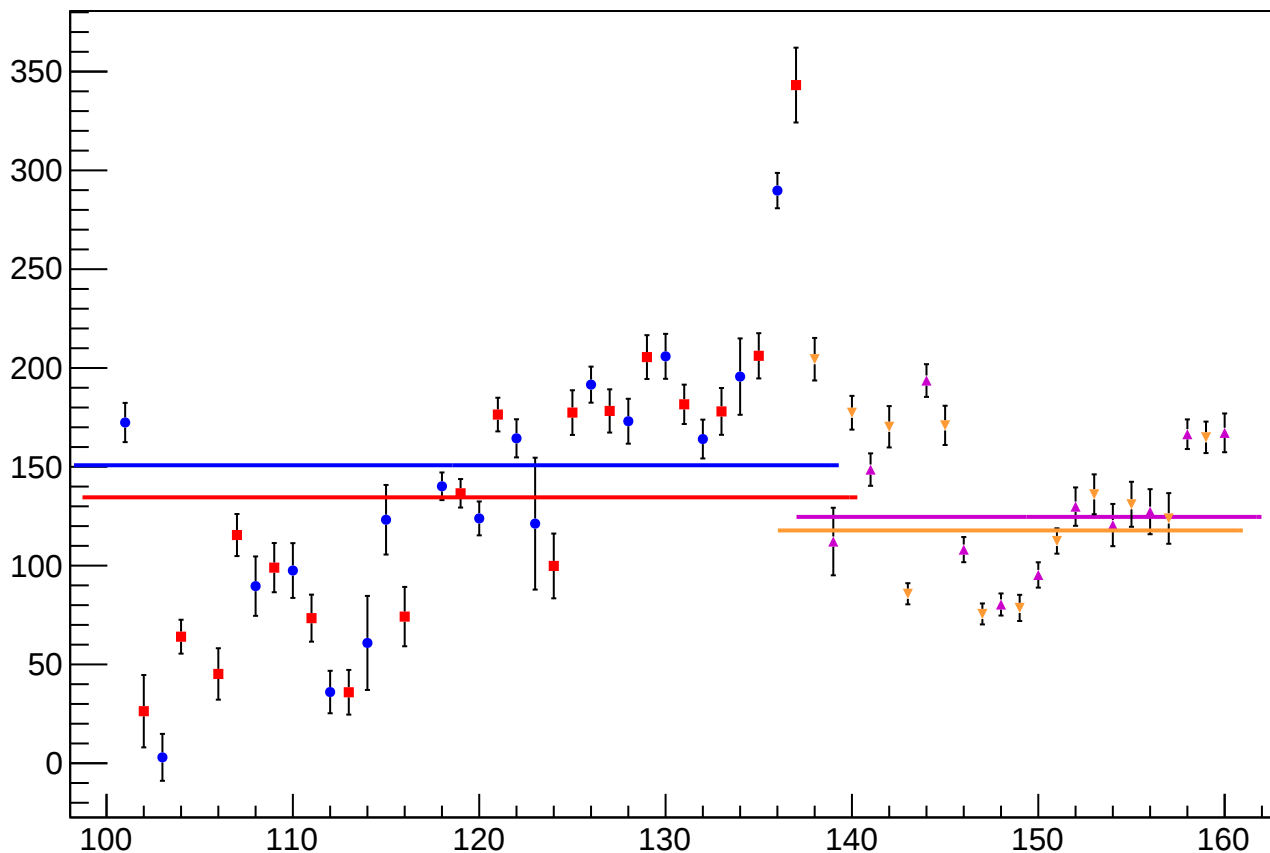
Right: 579.261 $\pm$ 2.996  $\chi^2$ /NDF: 4816.0/34

In: 546.942 $\pm$ 2.442  $\chi^2$ /NDF:2476.4/27

Out: 509.169 $\pm$ 2.313  $\chi^2$ /NDF:4243.8/29

All: 527.033 $\pm$ 1.679  $\chi^2$ /NDF: 6846.3/57

reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 150.785 $\pm$ 2.679  $\chi^2$ /NDF: 633.1/16

Left Out: 117.796 $\pm$ 2.244  $\chi^2$ /NDF:342.2/11

Right Out: 134.549 $\pm$ 2.619  $\chi^2$ /NDF: 576.2/17

Left In: 124.658 $\pm$ 2.431  $\chi^2$ /NDF:219.8/10

Left: 120.952 $\pm$ 1.649  $\chi^2$ /NDF: 566.3/22

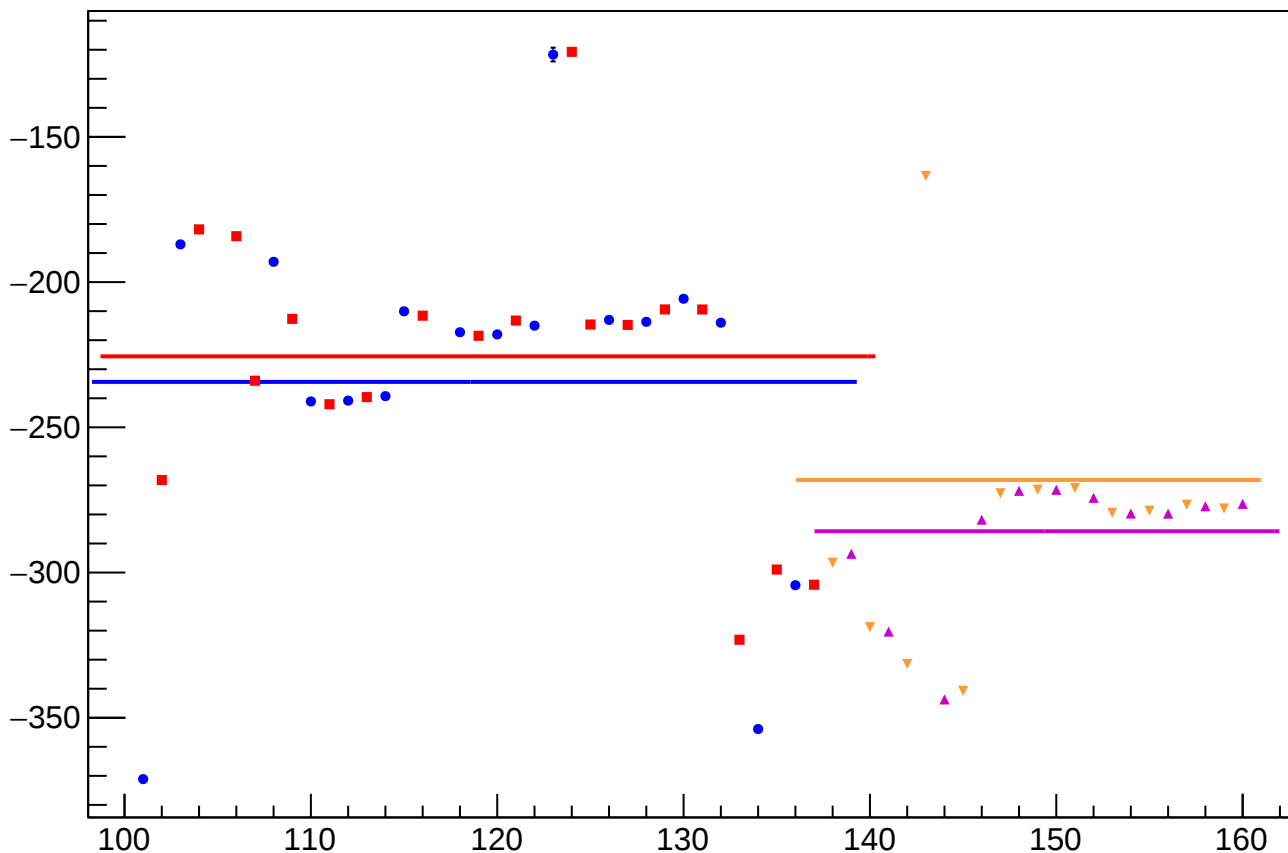
Right: 142.483 $\pm$ 1.873  $\chi^2$ /NDF: 1228.1/34

In: 136.456 $\pm$ 1.801  $\chi^2$ /NDF:905.0/27

Out: 124.886 $\pm$ 1.704  $\chi^2$ /NDF:942.0/29

All: 130.352 $\pm$ 1.238  $\chi^2$ /NDF: 1868.9/57

reg\_asym\_at2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -234.360+/-0.148  $\chi^2/\text{NDF}$ : 145159.1/16

Left Out: -268.114+/-0.113  $\chi^2/\text{NDF}$ : 204316.2/11

Right Out: -225.561+/-0.142  $\chi^2/\text{NDF}$ : 92955.0/17

Left In: -285.776+/-0.118  $\chi^2/\text{NDF}$ : 29416.3/10

Left: -276.584+/-0.081  $\chi^2/\text{NDF}$ : 245458.1/22

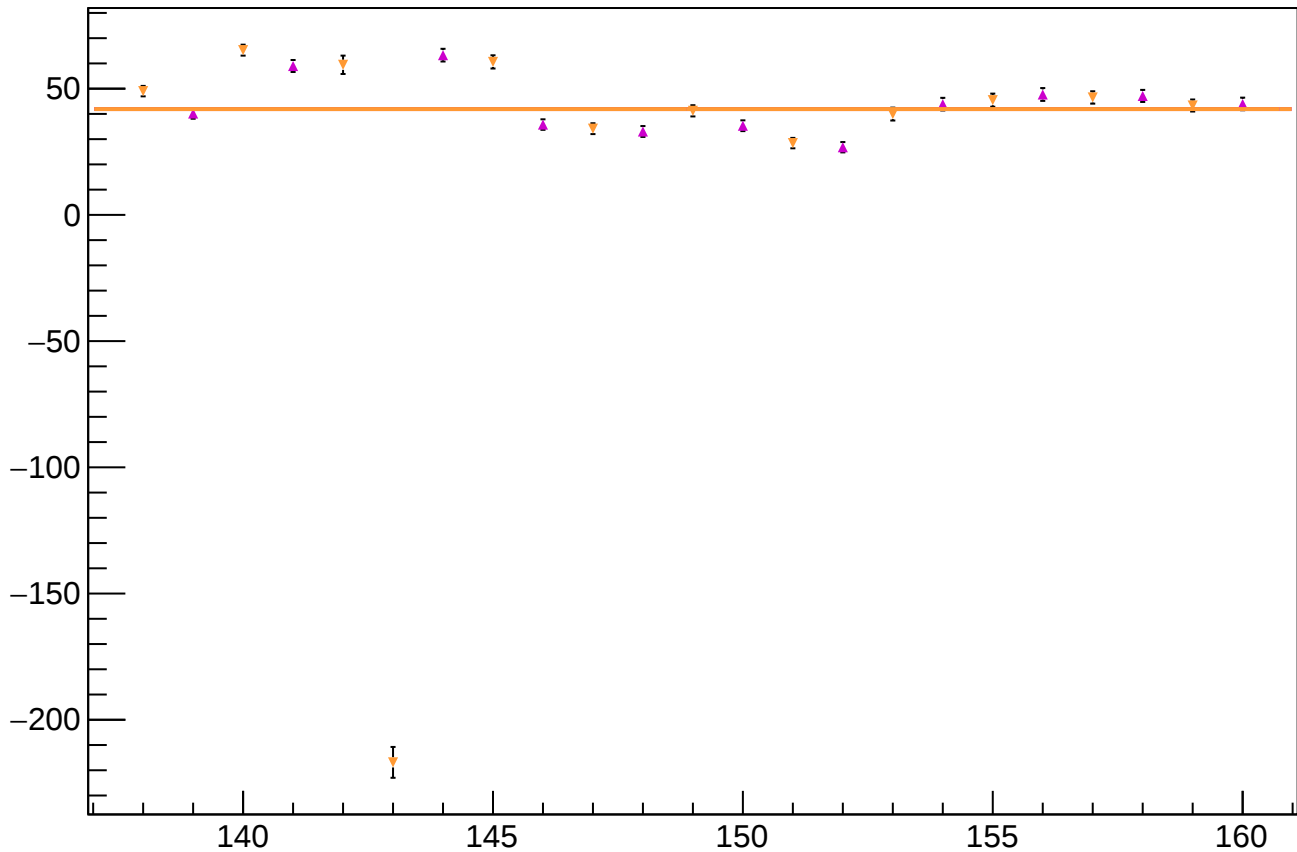
Right: -229.762+/-0.103  $\chi^2/\text{NDF}$ : 239949.0/34

In: -265.941+/-0.092  $\chi^2/\text{NDF}$ : 248230.0/27

Out: -251.612+/-0.088  $\chi^2/\text{NDF}$ : 352303.0/29

All: -258.472+/-0.064  $\chi^2/\text{NDF}$ : 613117.3/57

reg\_asym\_at2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 41.917+/-0.708  $\chi^2/\text{NDF}$ :2057.0/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 41.931+/-0.686  $\chi^2/\text{NDF}$ :225.3/10

Left: 41.925+/-0.493  $\chi^2/\text{NDF}$ : 2282.3/22

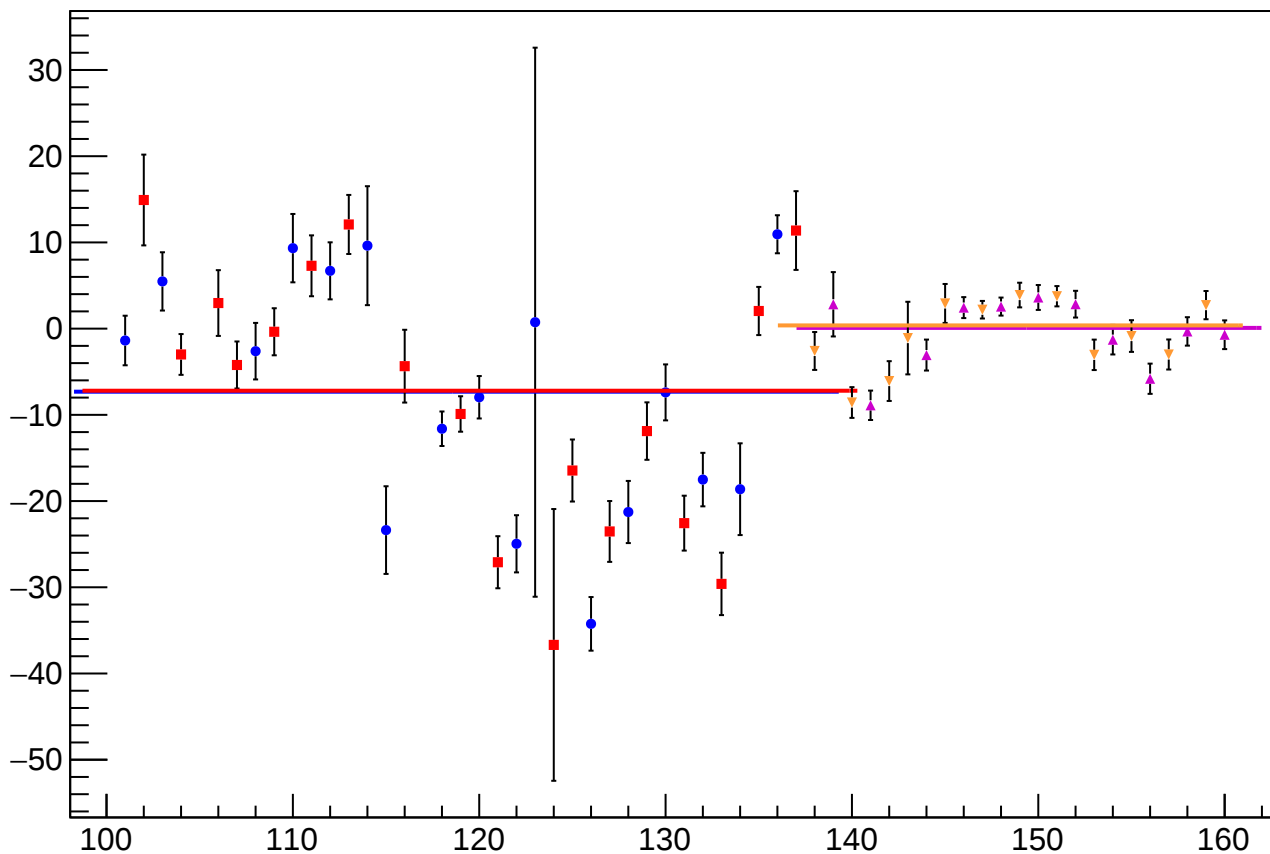
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 41.931+/-0.686  $\chi^2/\text{NDF}$ :225.3/10

Out: 41.917+/-0.708  $\chi^2/\text{NDF}$ :2057.0/11

All: 41.925+/-0.493  $\chi^2/\text{NDF}$ : 2282.3/22

reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-7.313 \pm 0.780$   $\chi^2/\text{NDF}$ : 279.1/16

Left Out:  $0.374 \pm 0.474$   $\chi^2/\text{NDF}$ : 63.7/11

Right Out:  $-7.202 \pm 0.762$   $\chi^2/\text{NDF}$ : 252.1/17

Left In:  $0.086 \pm 0.466$   $\chi^2/\text{NDF}$ : 62.0/10

Left:  $0.227 \pm 0.332$   $\chi^2/\text{NDF}$ : 125.9/22

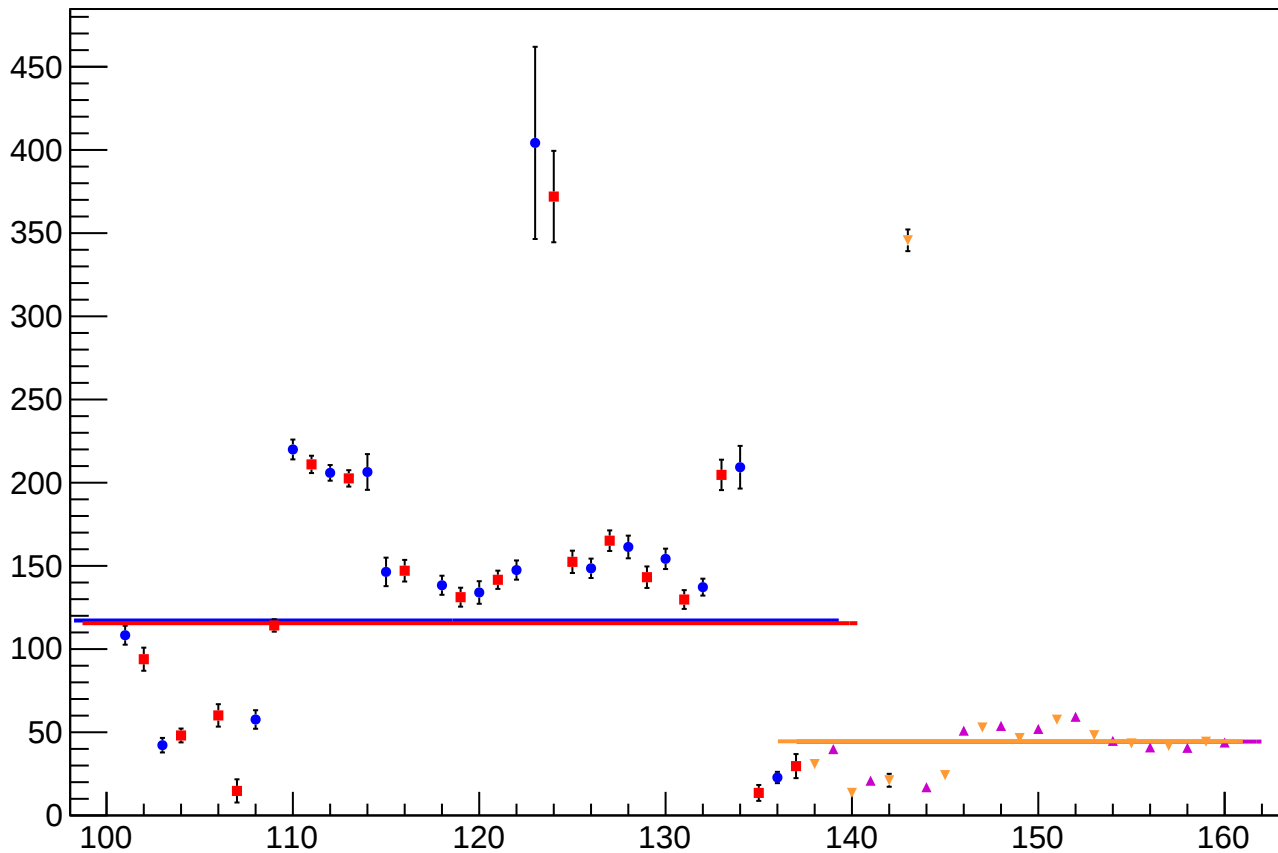
Right:  $-7.256 \pm 0.545$   $\chi^2/\text{NDF}$ : 531.2/34

In:  $-1.859 \pm 0.400$   $\chi^2/\text{NDF}$ : 407.4/27

Out:  $-1.740 \pm 0.402$   $\chi^2/\text{NDF}$ : 387.1/29

All:  $-1.800 \pm 0.284$   $\chi^2/\text{NDF}$ : 794.6/57

reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 117.177+/-1.411  $\chi^2/\text{NDF}$ : 2159.6/16

Left Out: 44.551+/-0.691  $\chi^2/\text{NDF}$ :2508.8/11

Right Out: 115.556+/-1.363  $\chi^2/\text{NDF}$ : 2149.2/17

Left In: 44.394+/-0.665  $\chi^2/\text{NDF}$ :304.8/10

Left: 44.470+/-0.479  $\chi^2/\text{NDF}$ : 2813.6/22

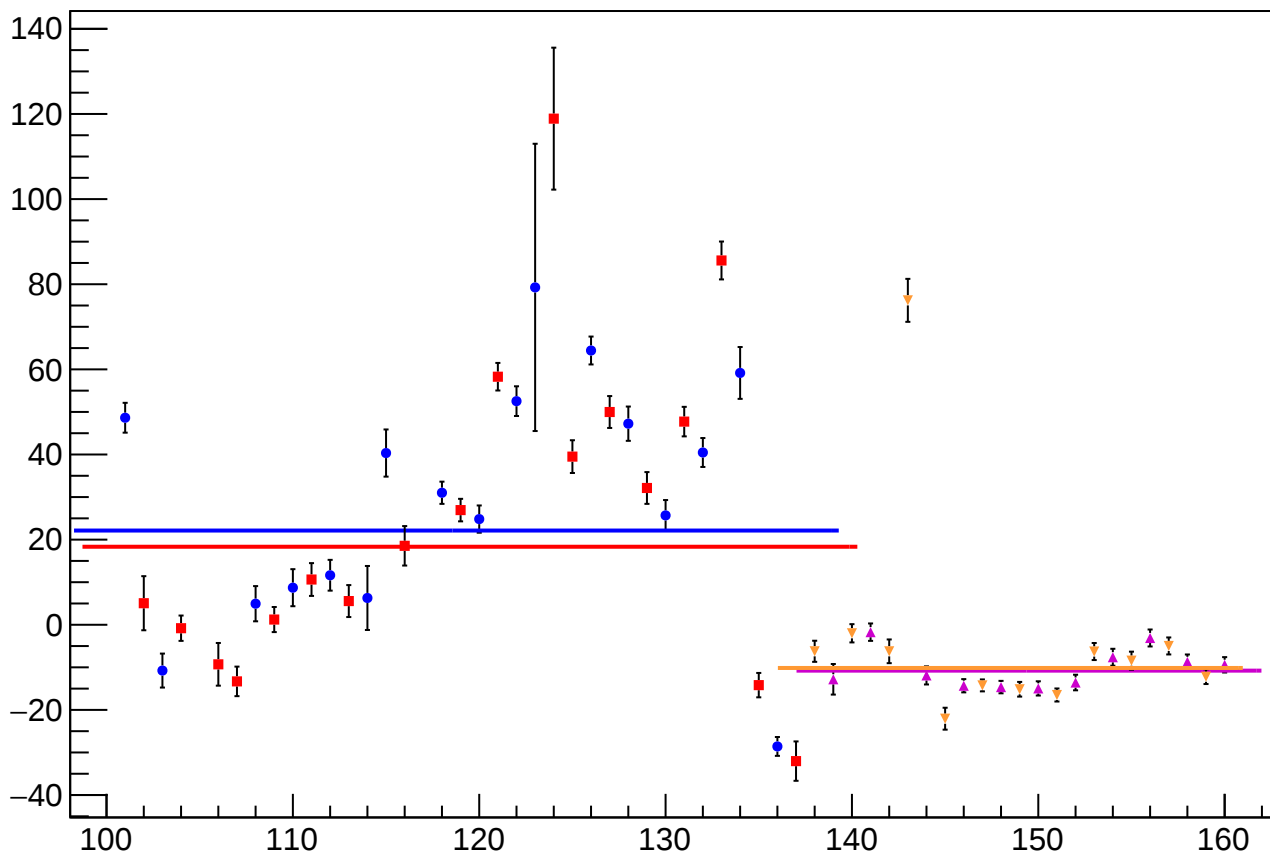
Right: 116.338+/-0.981  $\chi^2/\text{NDF}$ : 4309.5/34

In: 57.632+/-0.602  $\chi^2/\text{NDF}$ :4640.1/27

Out: 59.059+/-0.616  $\chi^2/\text{NDF}$ :6816.8/29

All: 58.329+/-0.431  $\chi^2/\text{NDF}$ : 11459.6/57

reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $22.136 \pm 0.891$   $\chi^2/\text{NDF}: 1064.1/16$

Left Out:  $-10.150 \pm 0.575$   $\chi^2/\text{NDF}: 379.7/11$

Right Out:  $18.331 \pm 0.872$   $\chi^2/\text{NDF}: 1070.4/17$

Left In:  $-10.776 \pm 0.558$   $\chi^2/\text{NDF}: 60.2/10$

Left:  $-10.473 \pm 0.400$   $\chi^2/\text{NDF}: 440.5/22$

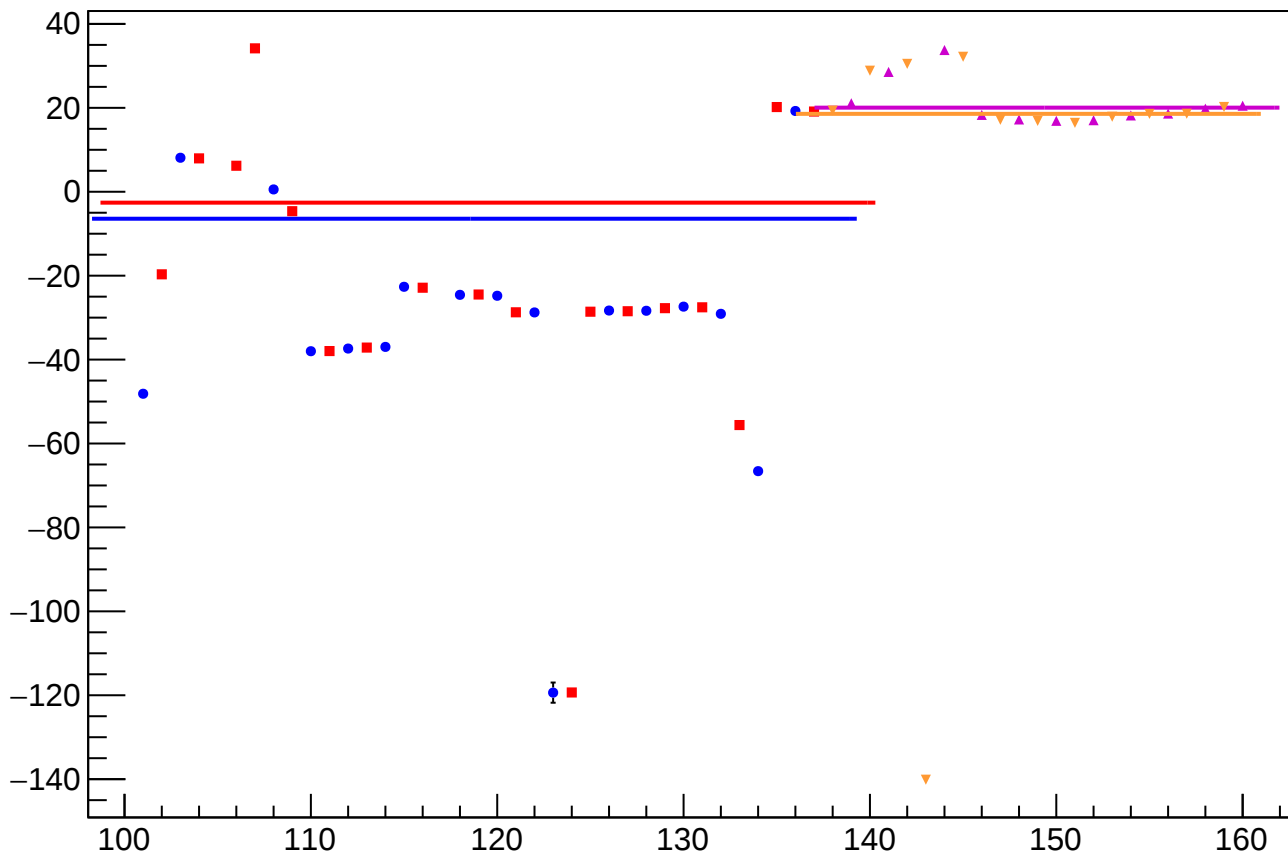
Right:  $20.192 \pm 0.623$   $\chi^2/\text{NDF}: 2143.8/34$

In:  $-1.518 \pm 0.473$   $\chi^2/\text{NDF}: 2104.6/27$

Out:  $-1.529 \pm 0.480$   $\chi^2/\text{NDF}: 2193.9/29$

All:  $-1.524 \pm 0.337$   $\chi^2/\text{NDF}: 4298.5/57$

reg\_asym\_at2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-6.428 \pm 0.046$   $\chi^2/\text{NDF}$ : 265170.6/16

Left Out:  $18.568 \pm 0.027$   $\chi^2/\text{NDF}$ : 400110.5/11

Right Out:  $-2.597 \pm 0.046$   $\chi^2/\text{NDF}$ : 263579.4/17

Left In:  $20.046 \pm 0.026$   $\chi^2/\text{NDF}$ : 25893.5/10

Left:  $19.341 \pm 0.019$   $\chi^2/\text{NDF}$ : 427560.7/22

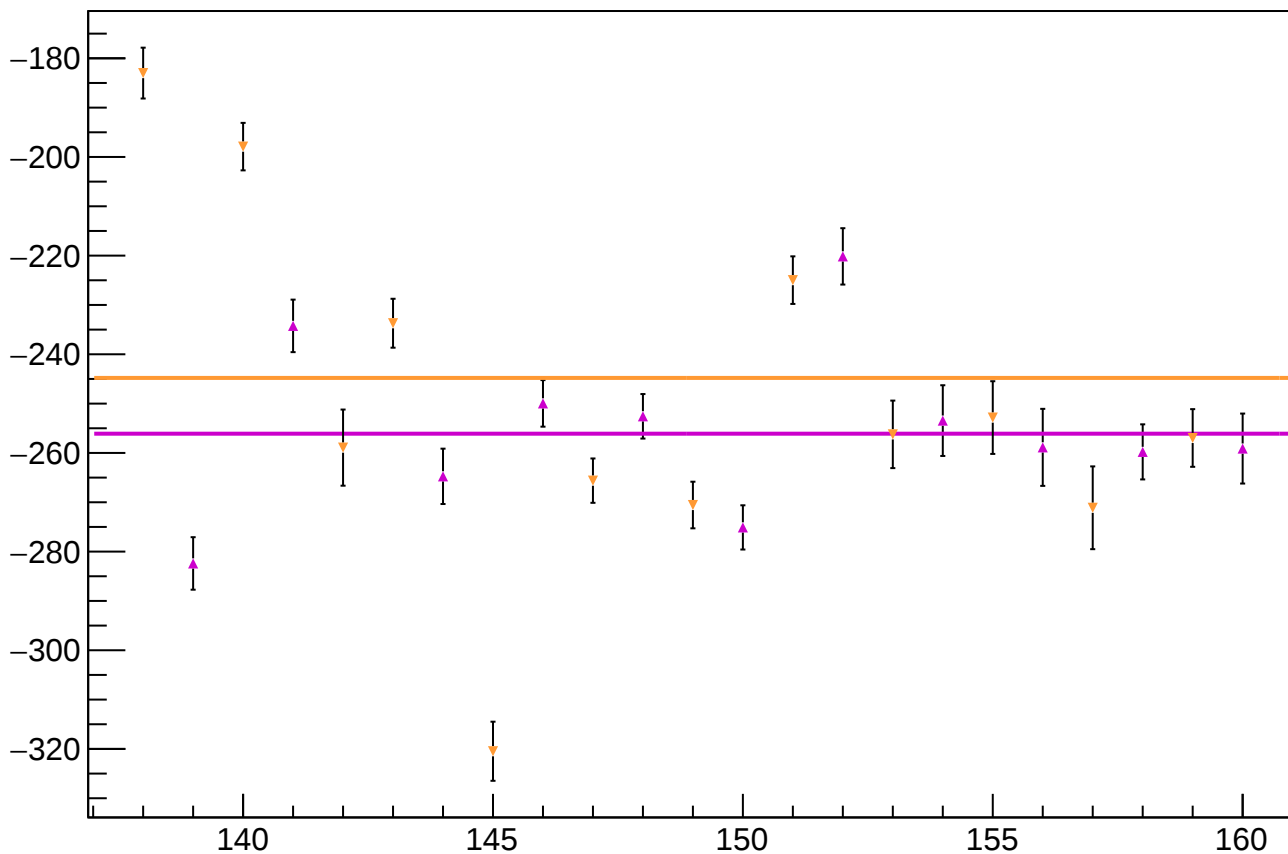
Right:  $-4.494 \pm 0.033$   $\chi^2/\text{NDF}$ : 532217.8/34

In:  $13.733 \pm 0.023$   $\chi^2/\text{NDF}$ : 540986.9/27

Out:  $13.072 \pm 0.023$   $\chi^2/\text{NDF}$ : 821966.5/29

All:  $13.414 \pm 0.016$   $\chi^2/\text{NDF}$ : 1363368.4/57

reg\_asym\_atl1r2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -244.793+/-1.608  $\chi^2/\text{NDF}$ :492.8/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -256.098+/-1.656  $\chi^2/\text{NDF}$ :104.4/10

Left: -250.280+/-1.154  $\chi^2/\text{NDF}$ : 621.2/22

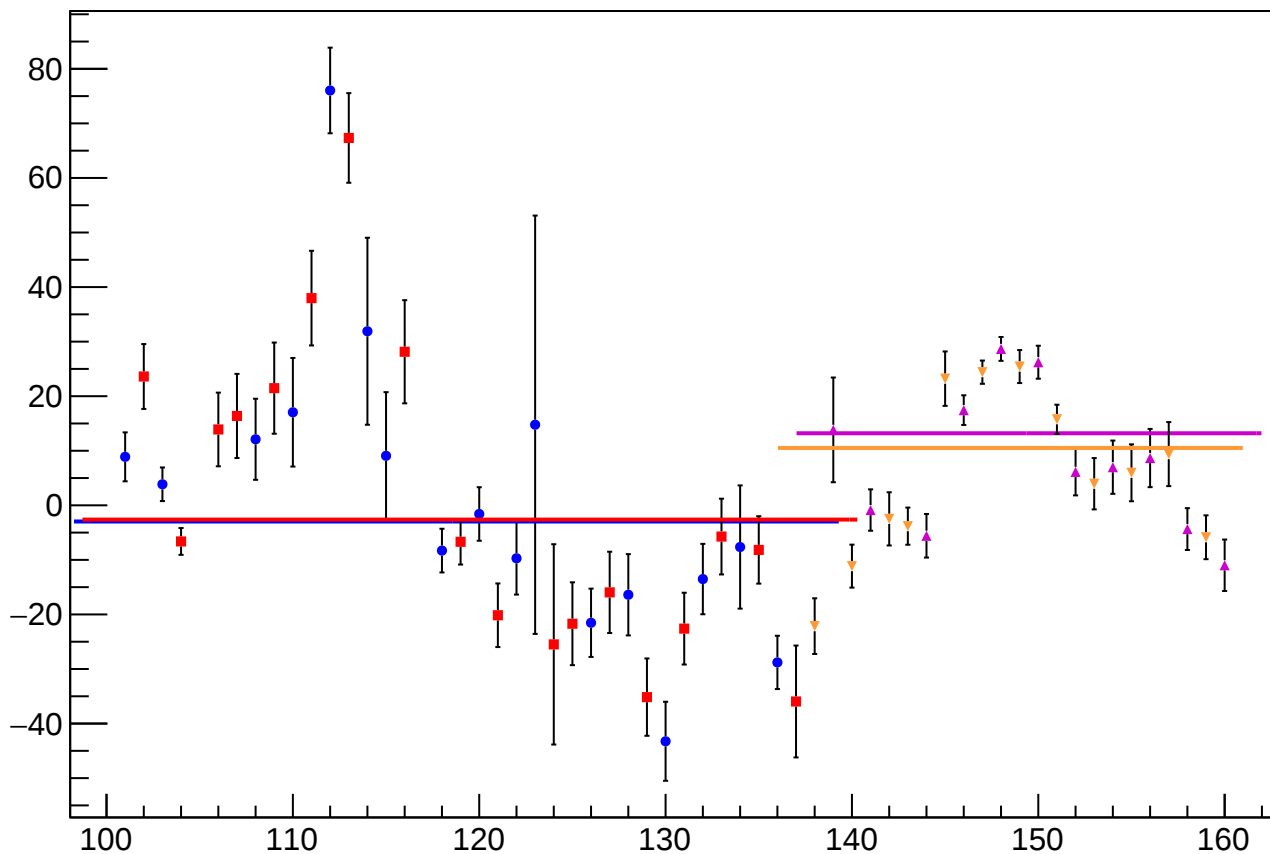
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -256.098+/-1.656  $\chi^2/\text{NDF}$ :104.4/10

Out: -244.793+/-1.608  $\chi^2/\text{NDF}$ :492.8/11

All: -250.280+/-1.154  $\chi^2/\text{NDF}$ : 621.2/22

reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-2.964 \pm 1.452$   $\chi^2/\text{NDF}$ : 203.5/16

Left Out:  $10.513 \pm 1.046$   $\chi^2/\text{NDF}$ : 192.5/11

Right Out:  $-2.615 \pm 1.399$   $\chi^2/\text{NDF}$ : 210.5/17

Left In:  $13.205 \pm 1.091$   $\chi^2/\text{NDF}$ : 159.2/10

Left:  $11.803 \pm 0.755$   $\chi^2/\text{NDF}$ : 355.0/22

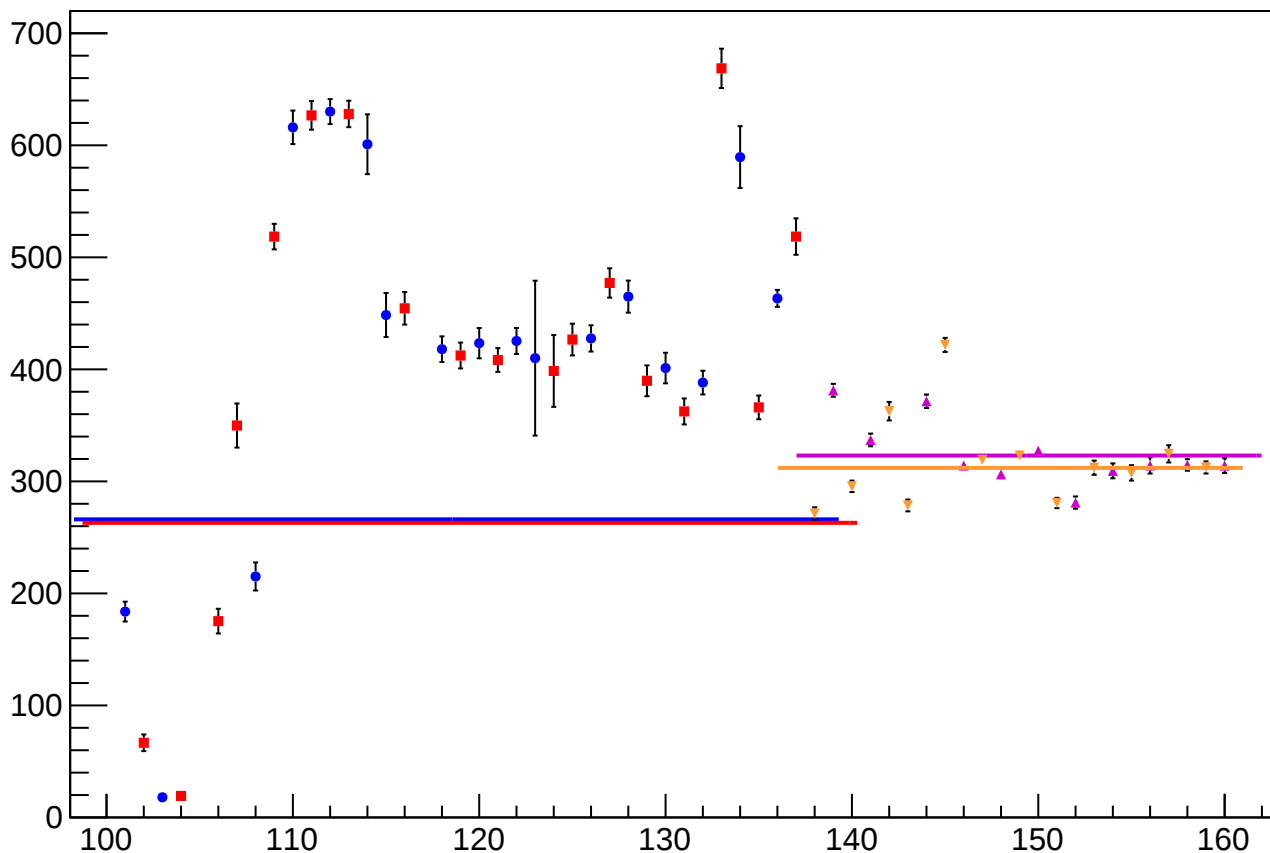
Right:  $-2.783 \pm 1.008$   $\chi^2/\text{NDF}$ : 414.0/34

In:  $7.377 \pm 0.872$   $\chi^2/\text{NDF}$ : 442.0/27

Out:  $5.807 \pm 0.838$   $\chi^2/\text{NDF}$ : 459.5/29

All:  $6.560 \pm 0.604$   $\chi^2/\text{NDF}$ : 903.2/57

reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 266.111 $\pm$ 2.480  $\chi^2$ /NDF: 7644.0/16

Left Out: 312.062 $\pm$ 1.585  $\chi^2$ /NDF:504.2/11

Right Out: 263.003 $\pm$ 2.467  $\chi^2$ /NDF: 8172.0/17

Left In: 323.063 $\pm$ 1.608  $\chi^2$ /NDF:263.2/10

Left: 317.485 $\pm$ 1.129  $\chi^2$ /NDF: 791.1/22

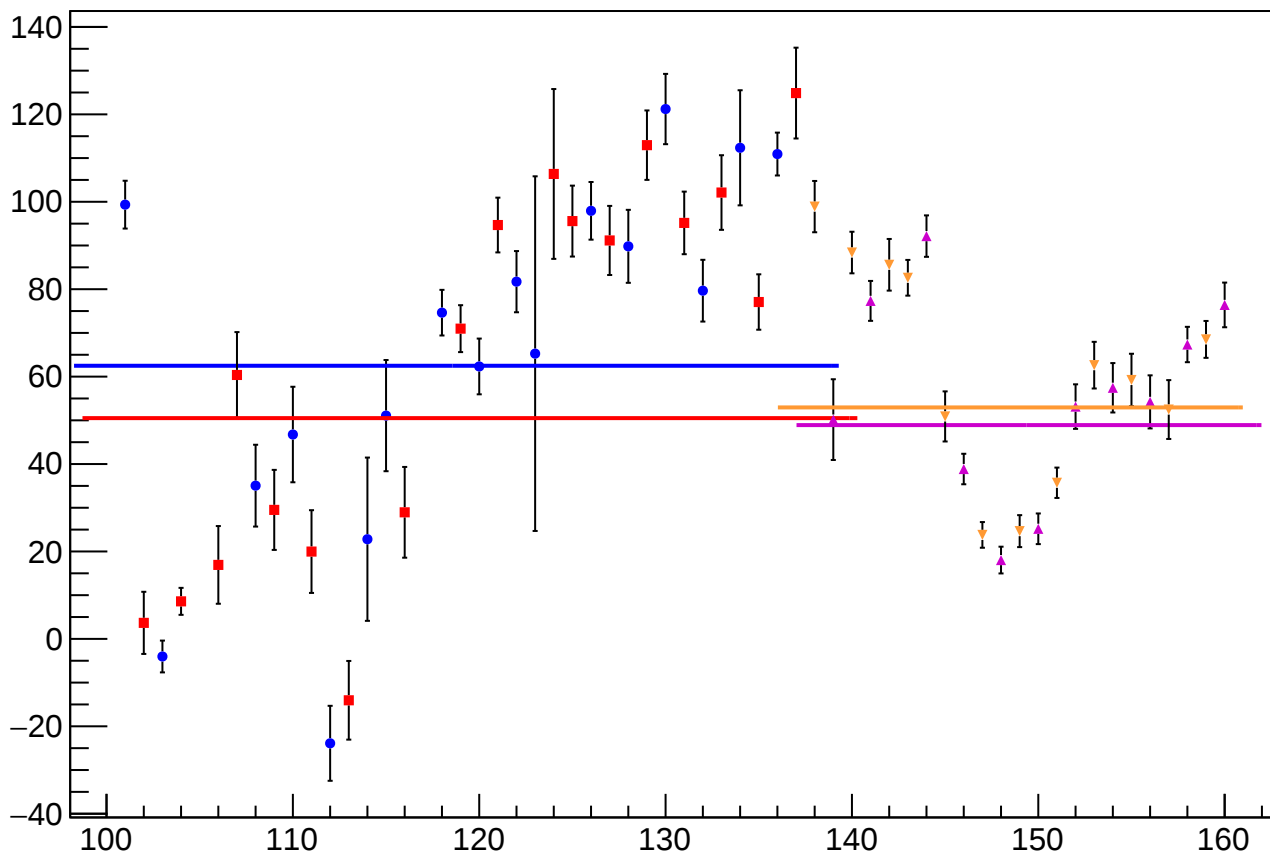
Right: 264.548 $\pm$ 1.749  $\chi^2$ /NDF: 15816.8/34

In: 306.211 $\pm$ 1.349  $\chi^2$ /NDF:8278.4/27

Out: 297.721 $\pm$ 1.334  $\chi^2$ /NDF:8956.2/29

All: 301.917 $\pm$ 0.948  $\chi^2$ /NDF: 17254.7/57

reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 62.485 $\pm$ 1.681  $\chi^2$ /NDF: 720.8/16

Left Out: 52.952 $\pm$ 1.284  $\chi^2$ /NDF:401.2/11

Right Out: 50.506 $\pm$ 1.644  $\chi^2$ /NDF: 650.6/17

Left In: 48.910 $\pm$ 1.324  $\chi^2$ /NDF:331.2/10

Left: 50.993 $\pm$ 0.921  $\chi^2$ /NDF: 737.2/22

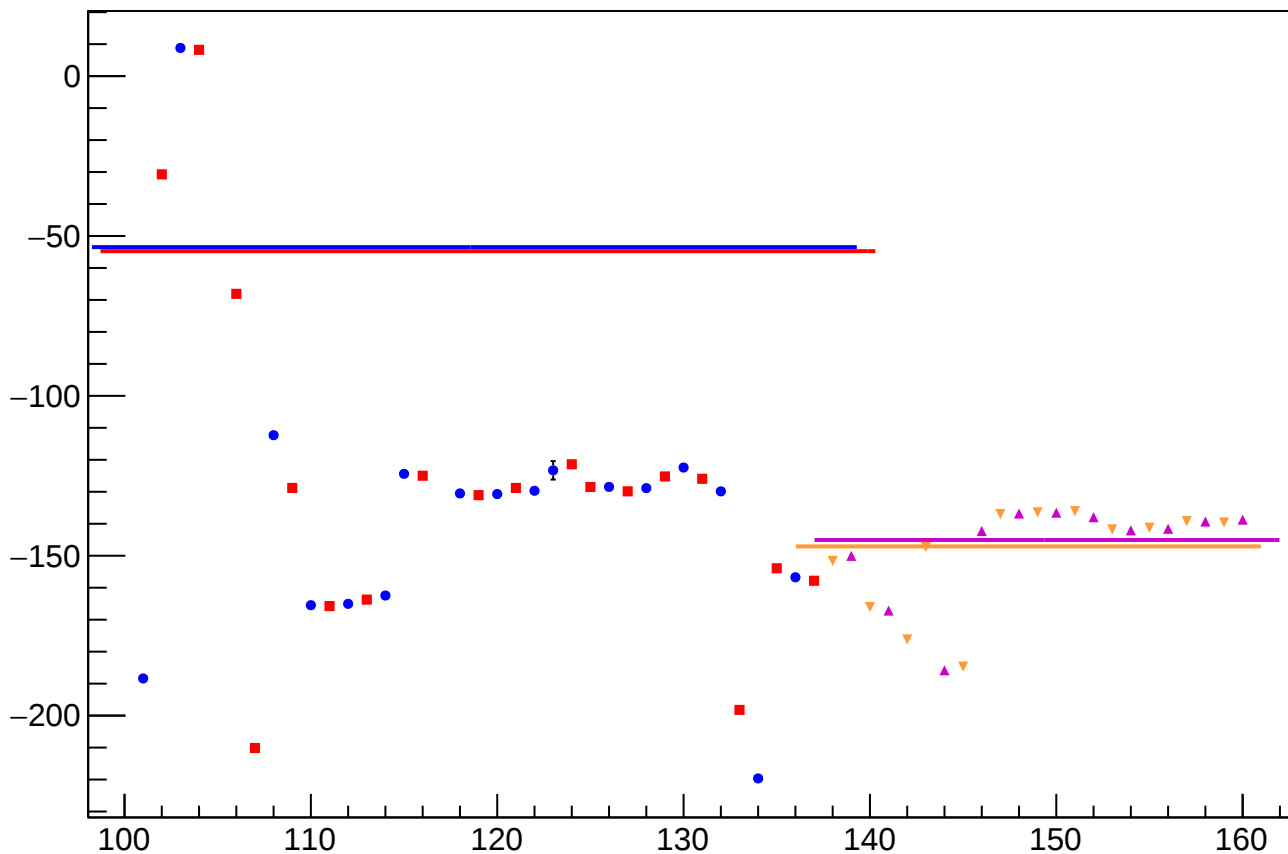
Right: 56.364 $\pm$ 1.175  $\chi^2$ /NDF: 1397.3/34

In: 54.106 $\pm$ 1.040  $\chi^2$ /NDF:1092.3/27

Out: 52.026 $\pm$ 1.012  $\chi^2$ /NDF:1053.1/29

All: 53.037 $\pm$ 0.725  $\chi^2$ /NDF: 2147.5/57

reg\_asym\_atl1r2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -53.481+/-0.070  $\chi^2/\text{NDF}$ : 1228730.5/16

Left Out: -147.091+/-0.064  $\chi^2/\text{NDF}$ : 50441.7/11

Right Out: -54.748+/-0.072  $\chi^2/\text{NDF}$ : 952446.3/17

Left In: -145.073+/-0.064  $\chi^2/\text{NDF}$ : 41607.8/10

Left: -146.077+/-0.045  $\chi^2/\text{NDF}$ : 92547.7/22

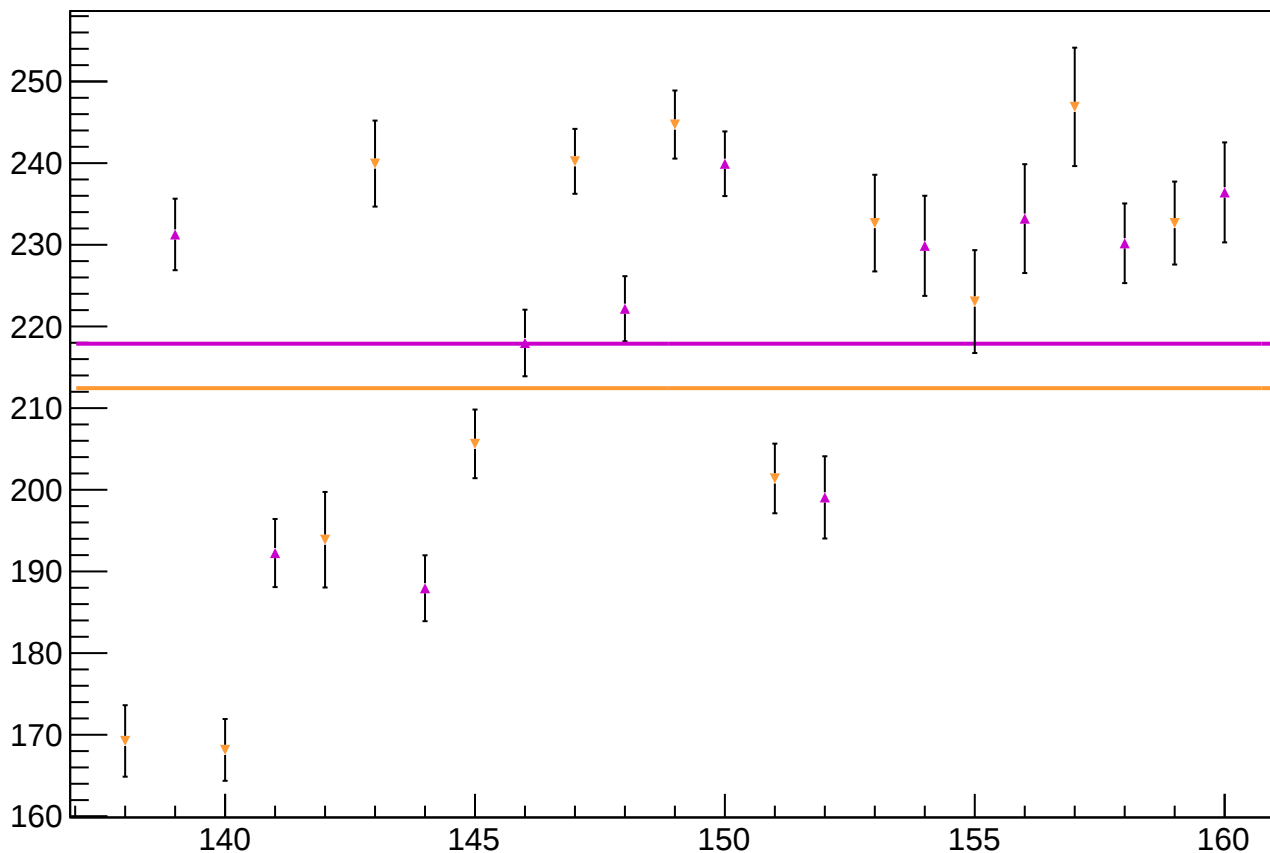
Right: -54.098+/-0.050  $\chi^2/\text{NDF}$ : 2181335.1/34

In: -103.730+/-0.047  $\chi^2/\text{NDF}$ : 2201360.4/27

Out: -106.356+/-0.048  $\chi^2/\text{NDF}$ : 1918816.3/29

All: -105.025+/-0.034  $\chi^2/\text{NDF}$ : 4121700.2/57

reg\_asym\_atl1r2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 212.446+/-1.372  $\chi^2/\text{NDF}$ :443.0/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 217.888+/-1.393  $\chi^2/\text{NDF}$ :172.9/10

Left: 215.125+/-0.977  $\chi^2/\text{NDF}$ : 623.7/22

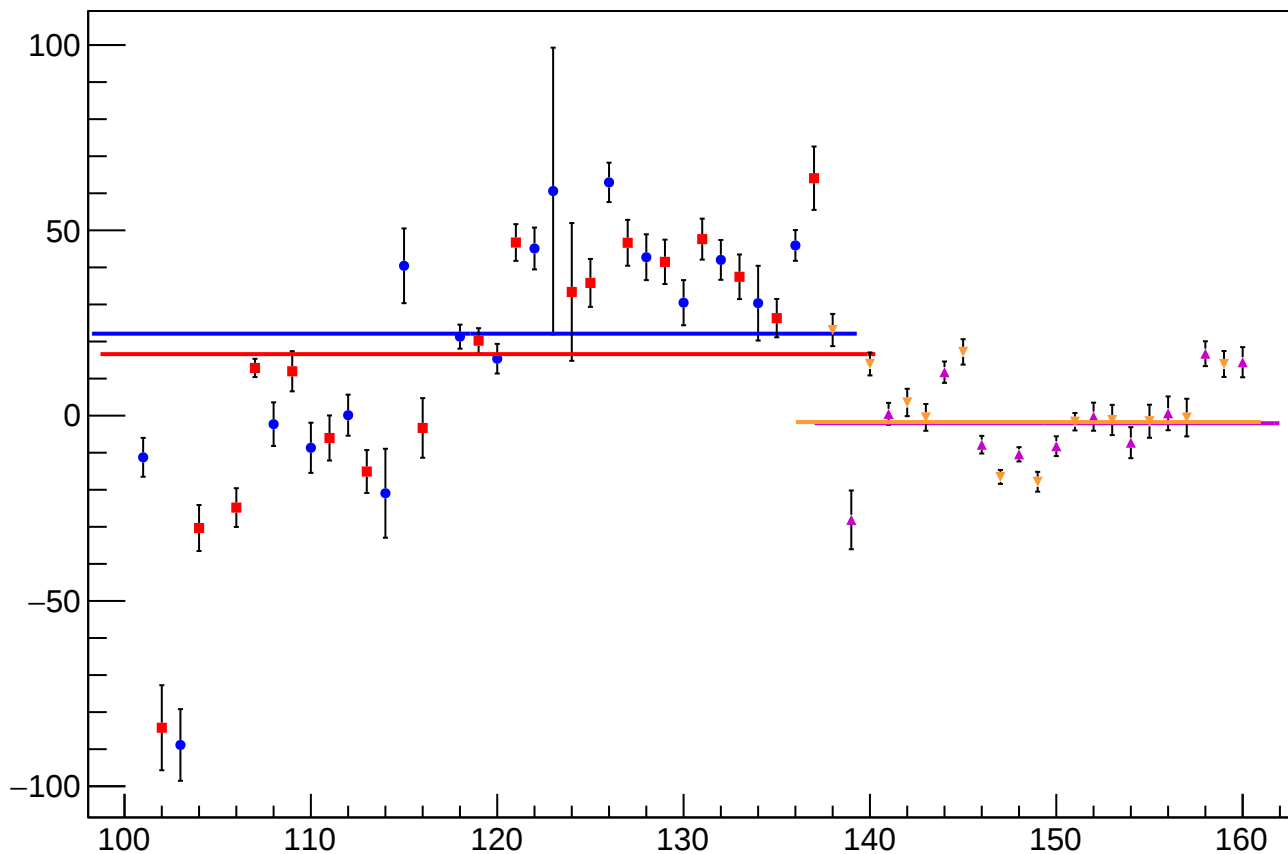
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 217.888+/-1.393  $\chi^2/\text{NDF}$ :172.9/10

Out: 212.446+/-1.372  $\chi^2/\text{NDF}$ :443.0/11

All: 215.125+/-0.977  $\chi^2/\text{NDF}$ : 623.7/22

reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 22.119 $\pm$ 1.376  $\chi^2$ /NDF: 382.0/16

Left Out: -1.731 $\pm$ 0.903  $\chi^2$ /NDF: 209.2/11

Right Out: 16.602 $\pm$ 1.229  $\chi^2$ /NDF: 416.8/17

Left In: -2.045 $\pm$ 0.929  $\chi^2$ /NDF: 114.4/10

Left: -1.884 $\pm$ 0.648  $\chi^2$ /NDF: 323.7/22

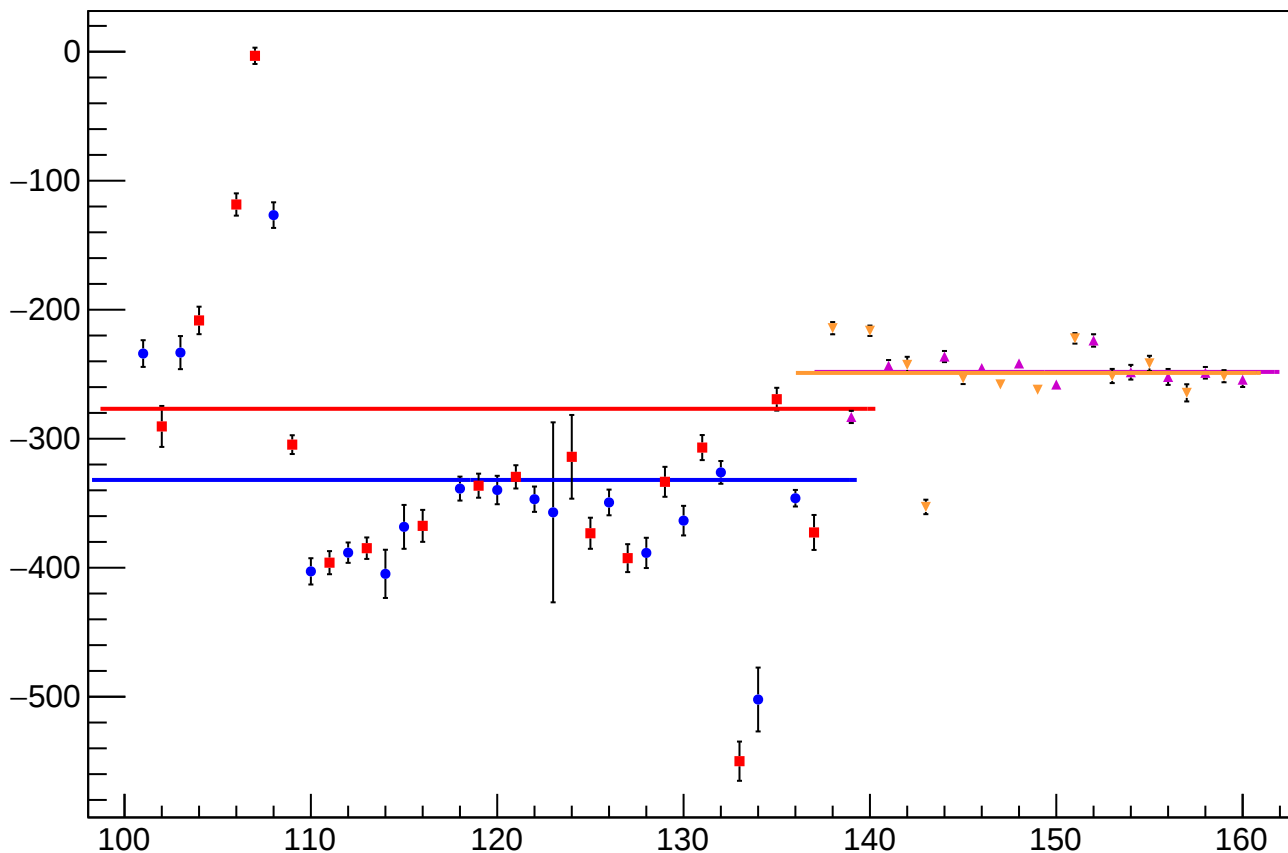
Right: 19.049 $\pm$ 0.917  $\chi^2$ /NDF: 807.7/34

In: 5.517 $\pm$ 0.770  $\chi^2$ /NDF: 708.1/27

Out: 4.700 $\pm$ 0.728  $\chi^2$ /NDF: 770.5/29

All: 5.086 $\pm$ 0.529  $\chi^2$ /NDF: 1479.3/57

reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-331.952 \pm 2.567$   $\chi^2/\text{NDF}: 785.6/16$

Left Out:  $-248.997 \pm 1.358$   $\chi^2/\text{NDF}: 531.1/11$

Right Out:  $-276.804 \pm 2.329$   $\chi^2/\text{NDF}: 3330.4/17$

Left In:  $-248.215 \pm 1.361$   $\chi^2/\text{NDF}: 100.8/10$

Left:  $-248.607 \pm 0.961$   $\chi^2/\text{NDF}: 632.1/22$

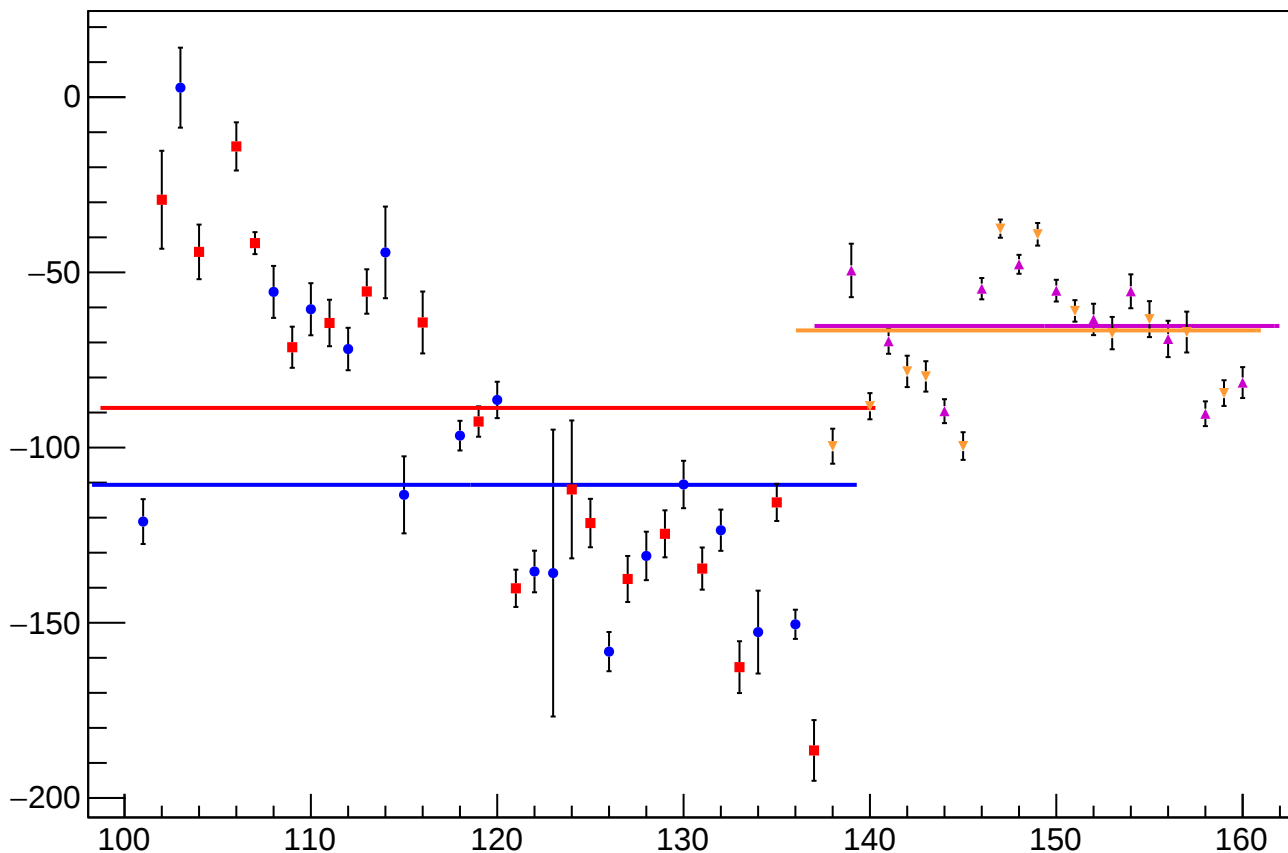
Right:  $-301.706 \pm 1.725$   $\chi^2/\text{NDF}: 4369.1/34$

In:  $-266.589 \pm 1.203$   $\chi^2/\text{NDF}: 1716.8/27$

Out:  $-256.049 \pm 1.173$   $\chi^2/\text{NDF}: 3967.9/29$

All:  $-261.189 \pm 0.840$   $\chi^2/\text{NDF}: 5724.0/57$

reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-110.633 \pm 1.581$   $\chi^2/\text{NDF}$ : 508.9/16

Left Out:  $-66.563 \pm 1.106$   $\chi^2/\text{NDF}$ : 387.9/11

Right Out:  $-88.683 \pm 1.434$   $\chi^2/\text{NDF}$ : 964.0/17

Left In:  $-65.292 \pm 1.124$   $\chi^2/\text{NDF}$ : 190.3/10

Left:  $-65.938 \pm 0.788$   $\chi^2/\text{NDF}$ : 578.8/22

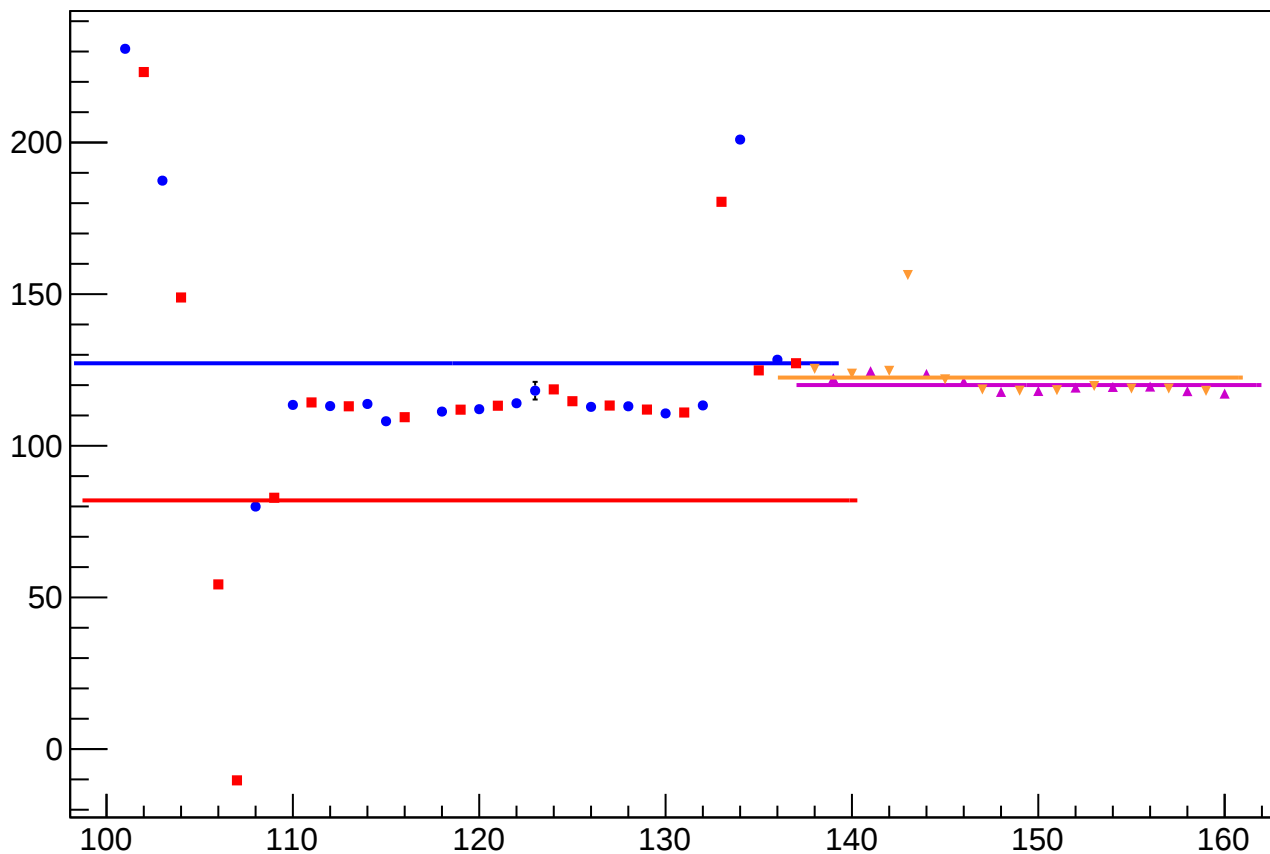
Right:  $-98.593 \pm 1.062$   $\chi^2/\text{NDF}$ : 1578.5/34

In:  $-80.516 \pm 0.916$   $\chi^2/\text{NDF}$ : 1245.4/27

Out:  $-74.808 \pm 0.876$   $\chi^2/\text{NDF}$ : 1501.0/29

All:  $-77.533 \pm 0.633$   $\chi^2/\text{NDF}$ : 2766.7/57

reg\_asym\_atl1r2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 127.205 $\pm$ 0.089  $\chi^2$ /NDF: 188026.3/16

Left Out: 122.497 $\pm$ 0.055  $\chi^2$ /NDF: 25851.5/11

Right Out: 81.994 $\pm$ 0.075  $\chi^2$ /NDF: 749824.5/17

Left In: 120.027 $\pm$ 0.054  $\chi^2$ /NDF: 1965.1/10

Left: 121.245 $\pm$ 0.038  $\chi^2$ /NDF: 28846.7/22

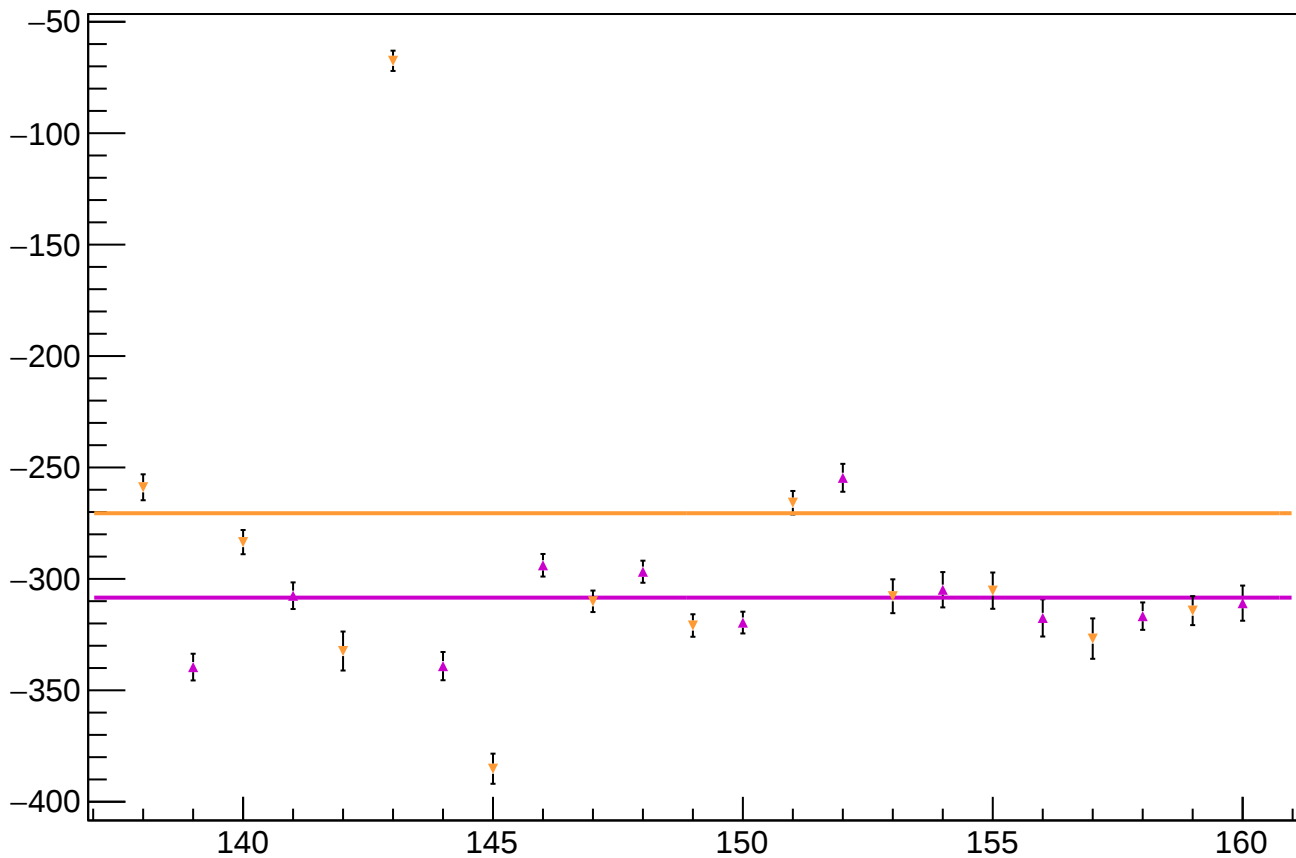
Right: 100.877 $\pm$ 0.058  $\chi^2$ /NDF: 1087676.4/34

In: 121.956 $\pm$ 0.046  $\chi^2$ /NDF: 194732.8/27

Out: 108.517 $\pm$ 0.044  $\chi^2$ /NDF: 964212.2/29

All: 114.961 $\pm$ 0.032  $\chi^2$ /NDF: 1202976.4/57

reg\_asym\_atr1l2\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -270.531+/-1.733  $\chi^2/\text{NDF}$ :2631.9/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -308.411+/-1.823  $\chi^2/\text{NDF}$ :146.6/10

Left: -288.505+/-1.256  $\chi^2/\text{NDF}$ : 3005.3/22

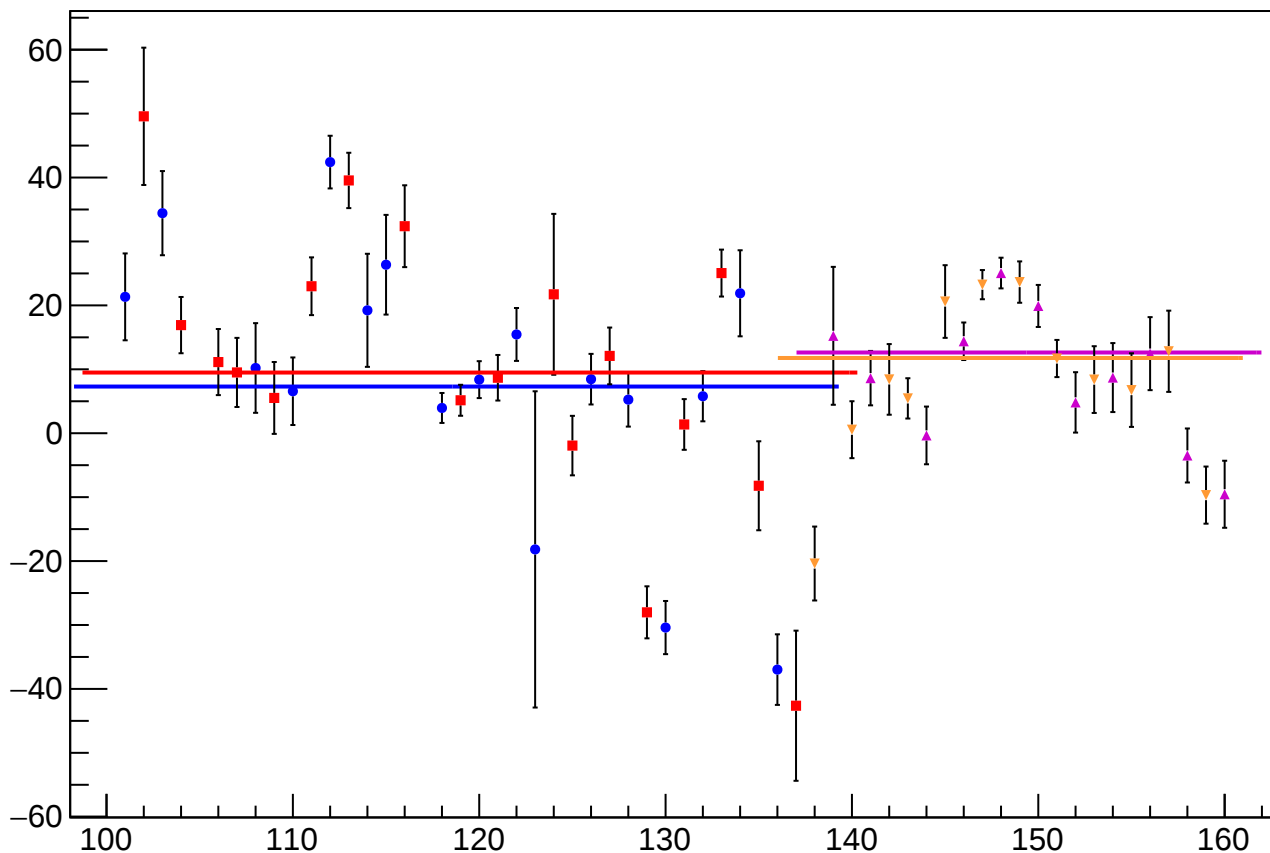
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -308.411+/-1.823  $\chi^2/\text{NDF}$ :146.6/10

Out: -270.531+/-1.733  $\chi^2/\text{NDF}$ :2631.9/11

All: -288.505+/-1.256  $\chi^2/\text{NDF}$ : 3005.3/22

reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $7.303 \pm 1.086$   $\chi^2/\text{NDF}: 260.6/16$

Left Out:  $11.771 \pm 1.124$   $\chi^2/\text{NDF}: 107.0/11$

Right Out:  $9.493 \pm 1.073$   $\chi^2/\text{NDF}: 231.1/17$

Left In:  $12.628 \pm 1.198$   $\chi^2/\text{NDF}: 76.9/10$

Left:  $12.172 \pm 0.820$   $\chi^2/\text{NDF}: 184.3/22$

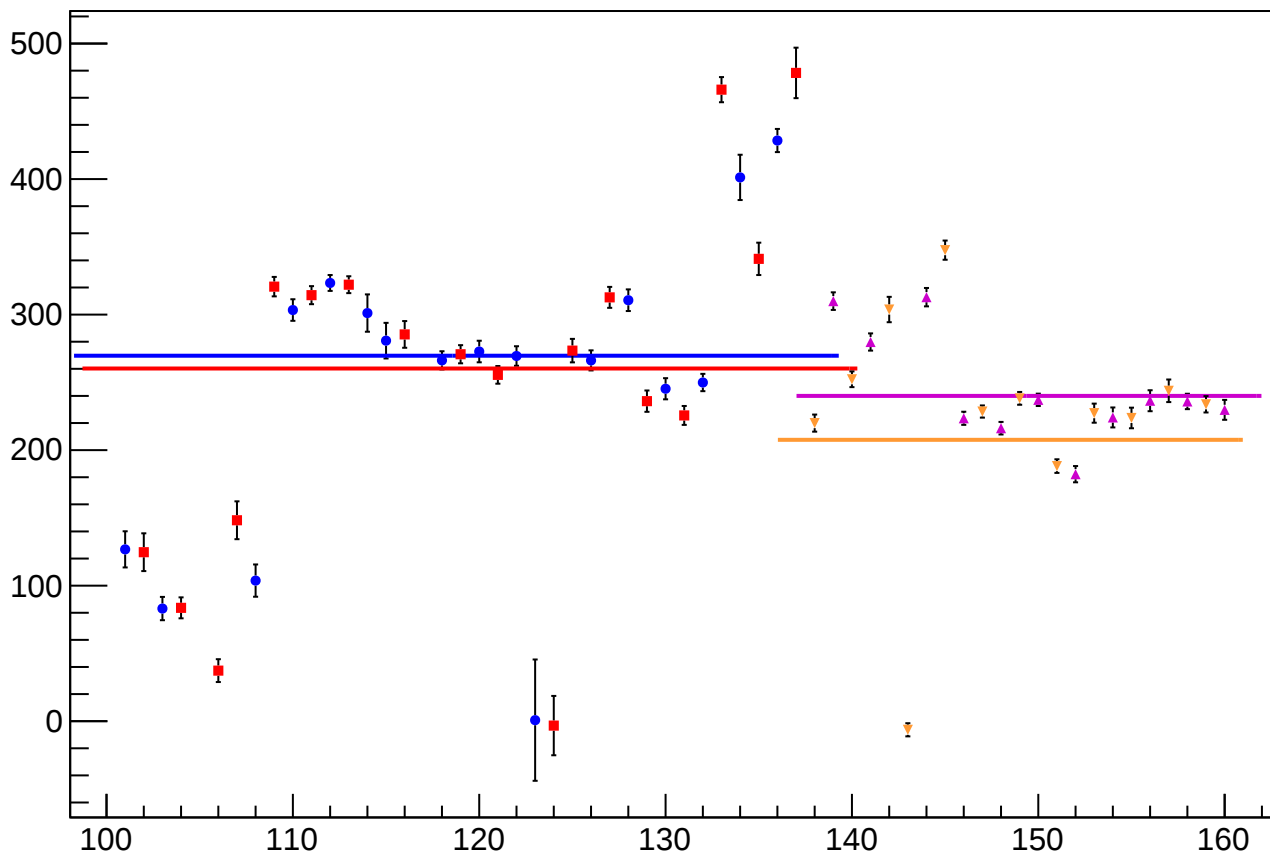
Right:  $8.410 \pm 0.763$   $\chi^2/\text{NDF}: 493.8/34$

In:  $9.704 \pm 0.804$   $\chi^2/\text{NDF}: 348.4/27$

Out:  $10.579 \pm 0.776$   $\chi^2/\text{NDF}: 340.3/29$

All:  $10.157 \pm 0.558$   $\chi^2/\text{NDF}: 689.4/57$

reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 269.664 $\pm$ 2.076  $\chi^2$ /NDF: 1376.6/16

Left Out: 207.608 $\pm$ 1.710  $\chi^2$ /NDF: 2631.5/11

Right Out: 260.226 $\pm$ 1.979  $\chi^2$ /NDF: 2528.0/17

Left In: 240.019 $\pm$ 1.768  $\chi^2$ /NDF: 409.1/10

Left: 223.275 $\pm$ 1.229  $\chi^2$ /NDF: 3214.3/22

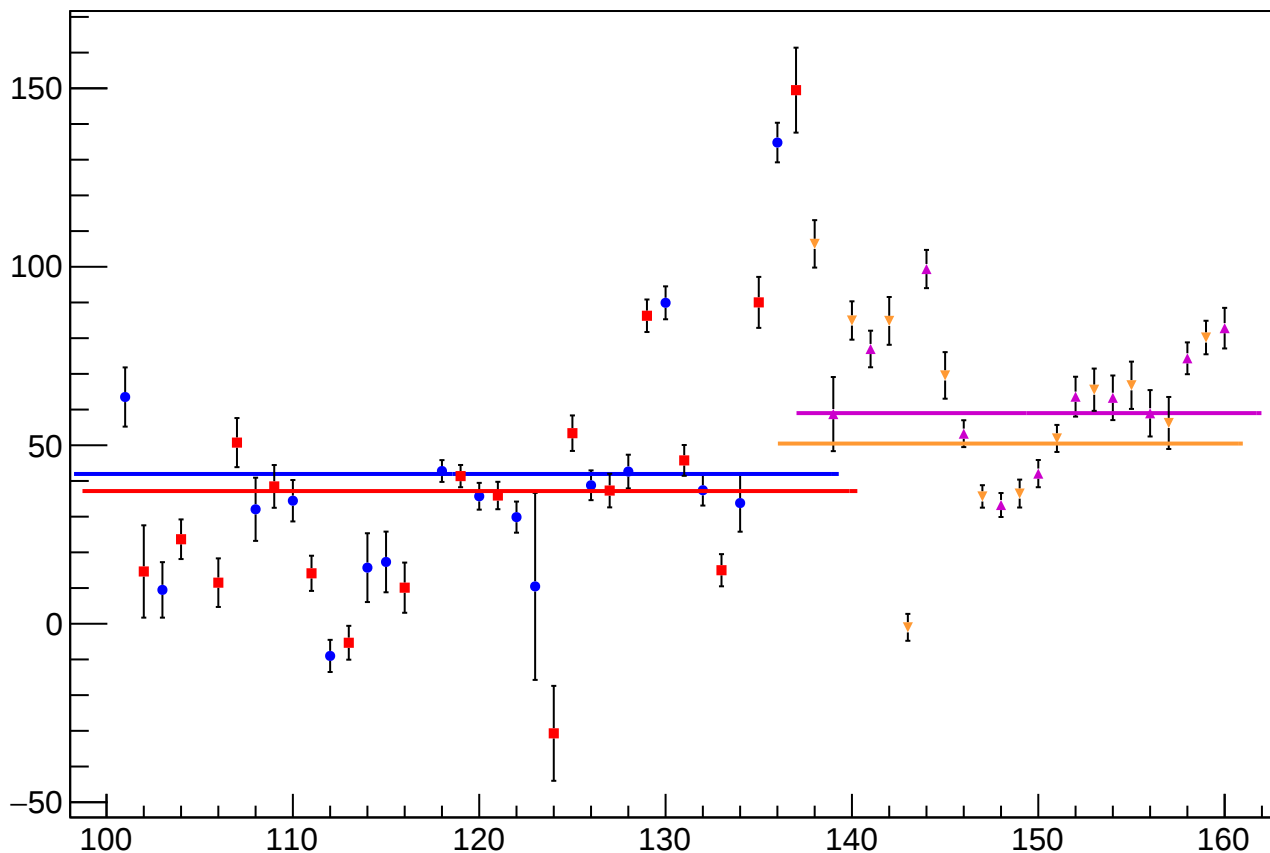
Right: 264.719 $\pm$ 1.432  $\chi^2$ /NDF: 3915.4/34

In: 252.480 $\pm$ 1.346  $\chi^2$ /NDF: 1903.9/27

Out: 230.104 $\pm$ 1.294  $\chi^2$ /NDF: 5564.2/29

All: 240.851 $\pm$ 0.933  $\chi^2$ /NDF: 7611.8/57

reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $41.959 \pm 1.258$   $\chi^2/\text{NDF}: 574.2/16$

Left Out:  $50.476 \pm 1.380$   $\chi^2/\text{NDF}: 421.9/11$

Right Out:  $37.171 \pm 1.236$   $\chi^2/\text{NDF}: 470.9/17$

Left In:  $59.006 \pm 1.454$   $\chi^2/\text{NDF}: 180.5/10$

Left:  $54.519 \pm 1.001$   $\chi^2/\text{NDF}: 620.5/22$

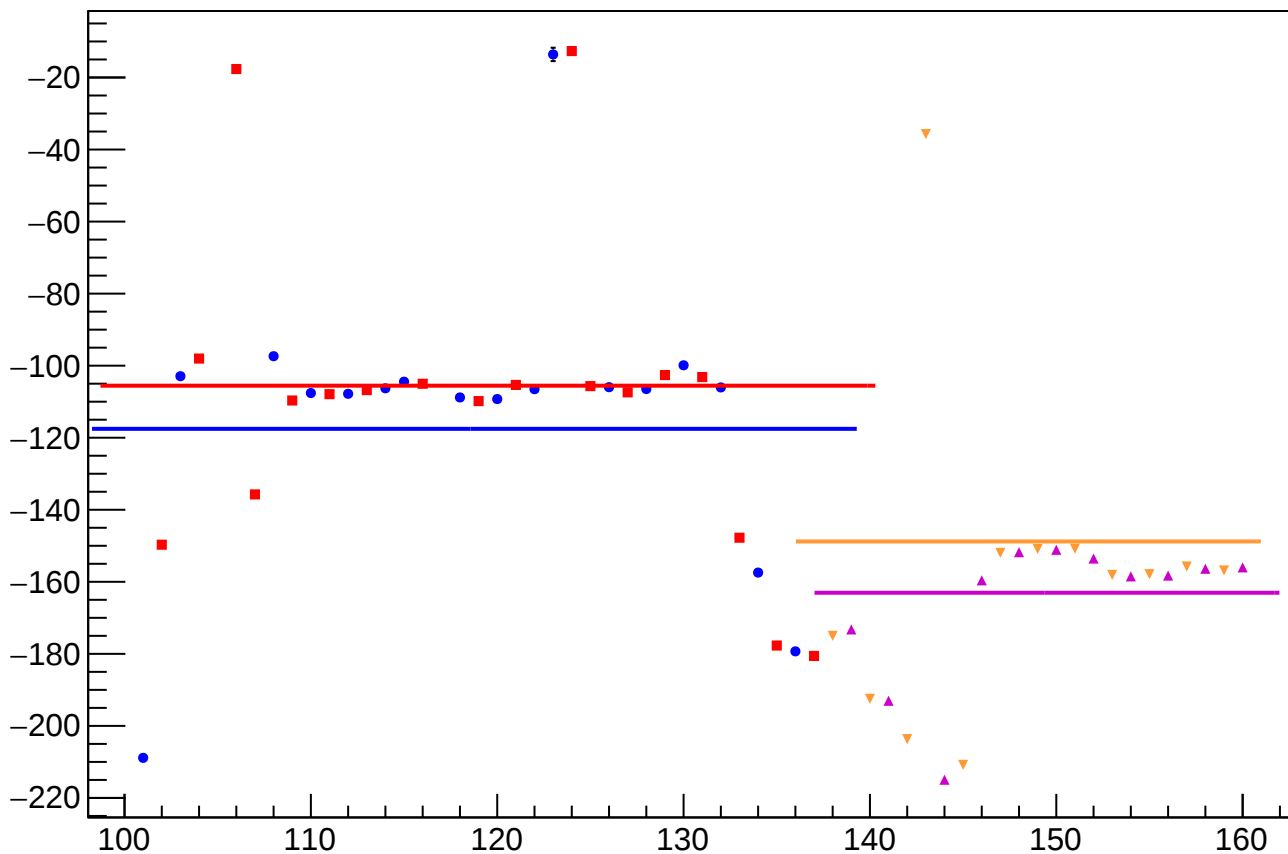
Right:  $39.523 \pm 0.882$   $\chi^2/\text{NDF}: 1052.5/34$

In:  $49.257 \pm 0.951$   $\chi^2/\text{NDF}: 833.3/27$

Out:  $43.093 \pm 0.921$   $\chi^2/\text{NDF}: 944.3/29$

All:  $46.074 \pm 0.662$   $\chi^2/\text{NDF}: 1799.3/57$

reg\_asym\_atr1l2\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: -117.533+/-0.078  $\chi^2/\text{NDF}$ : 142039.8/16

Left Out: -148.798+/-0.069  $\chi^2/\text{NDF}$ : 452710.3/11

Right Out: -105.555+/-0.073  $\chi^2/\text{NDF}$ : 317428.5/17

Left In: -163.039+/-0.070  $\chi^2/\text{NDF}$ : 57330.1/10

Left: -155.818+/-0.049  $\chi^2/\text{NDF}$ : 530922.6/22

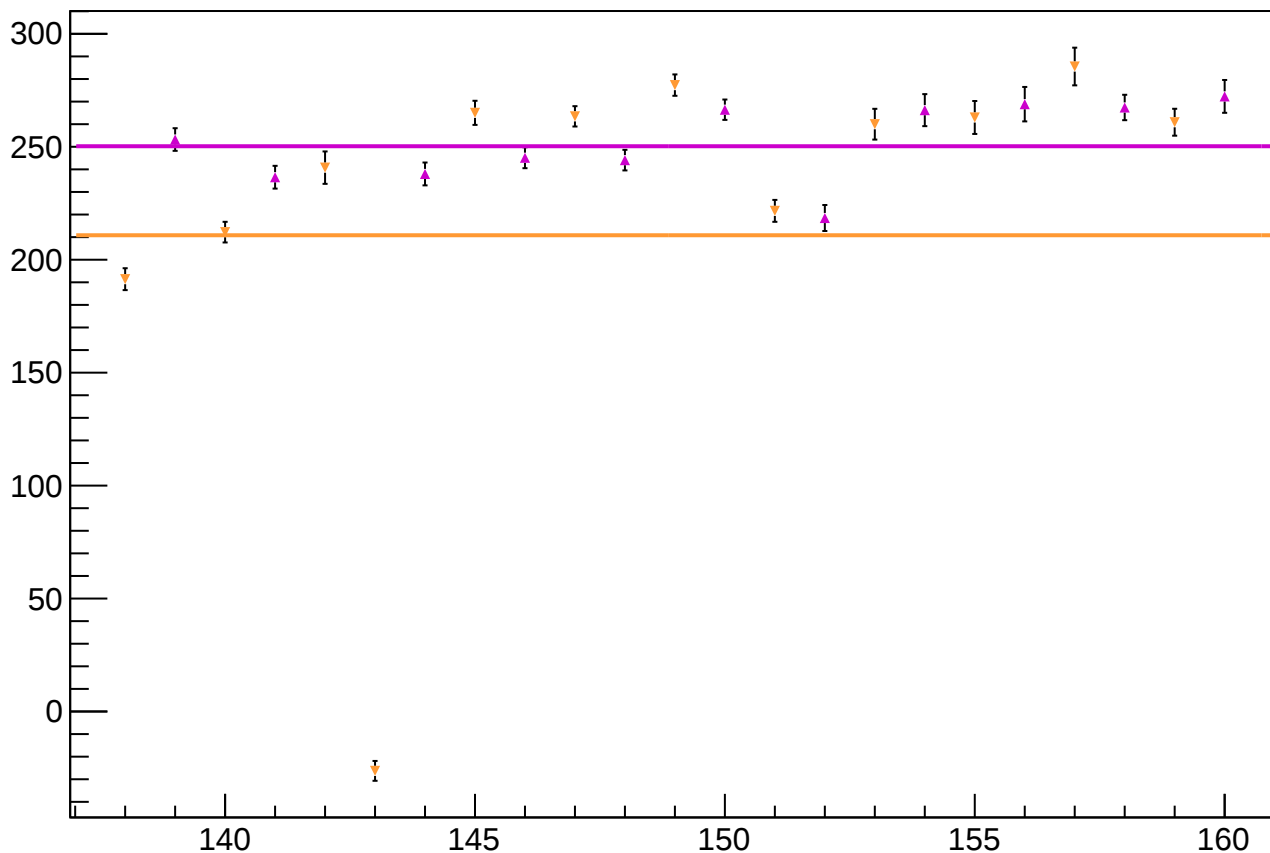
Right: -111.128+/-0.053  $\chi^2/\text{NDF}$ : 472040.3/34

In: -142.718+/-0.052  $\chi^2/\text{NDF}$ : 387146.2/27

Out: -128.296+/-0.050  $\chi^2/\text{NDF}$ : 955328.0/29

All: -135.222+/-0.036  $\chi^2/\text{NDF}$ : 1382145.0/57

reg\_asym\_atr1l2\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 210.832+/-1.550  $\chi^2/\text{NDF}$ :3640.6/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 250.241+/-1.622  $\chi^2/\text{NDF}$ :89.6/10

Left: 229.647+/-1.120  $\chi^2/\text{NDF}$ : 4038.9/22

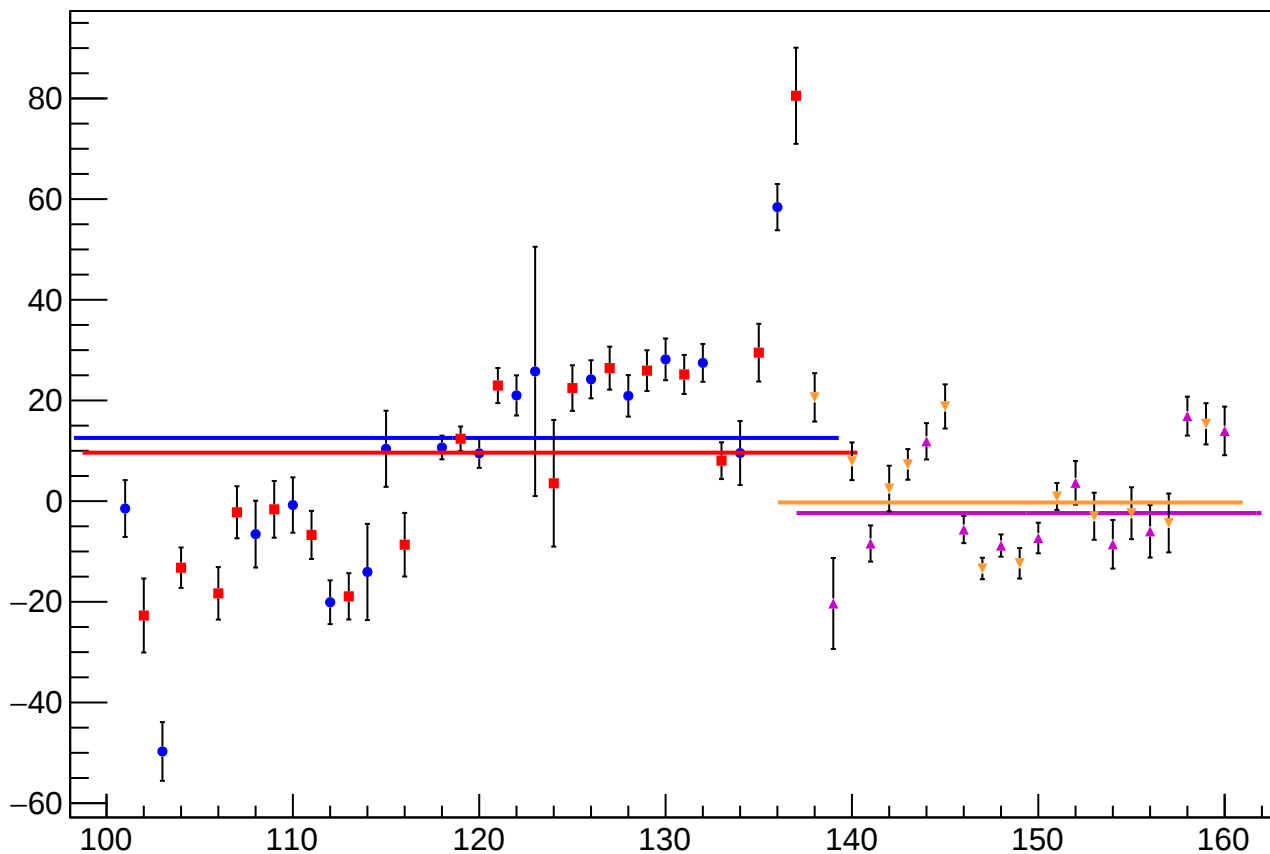
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 250.241+/-1.622  $\chi^2/\text{NDF}$ :89.6/10

Out: 210.832+/-1.550  $\chi^2/\text{NDF}$ :3640.6/11

All: 229.647+/-1.120  $\chi^2/\text{NDF}$ : 4038.9/22

reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 12.559+/-1.057  $\chi^2/\text{NDF}$ : 348.6/16

Left Out: -0.265+/-1.019  $\chi^2/\text{NDF}$ : 118.5/11

Right Out: 9.631+/-1.049  $\chi^2/\text{NDF}$ : 287.5/17

Left In: -2.359+/-1.078  $\chi^2/\text{NDF}$ : 75.4/10

Left: -1.253+/-0.741  $\chi^2/\text{NDF}$ : 195.9/22

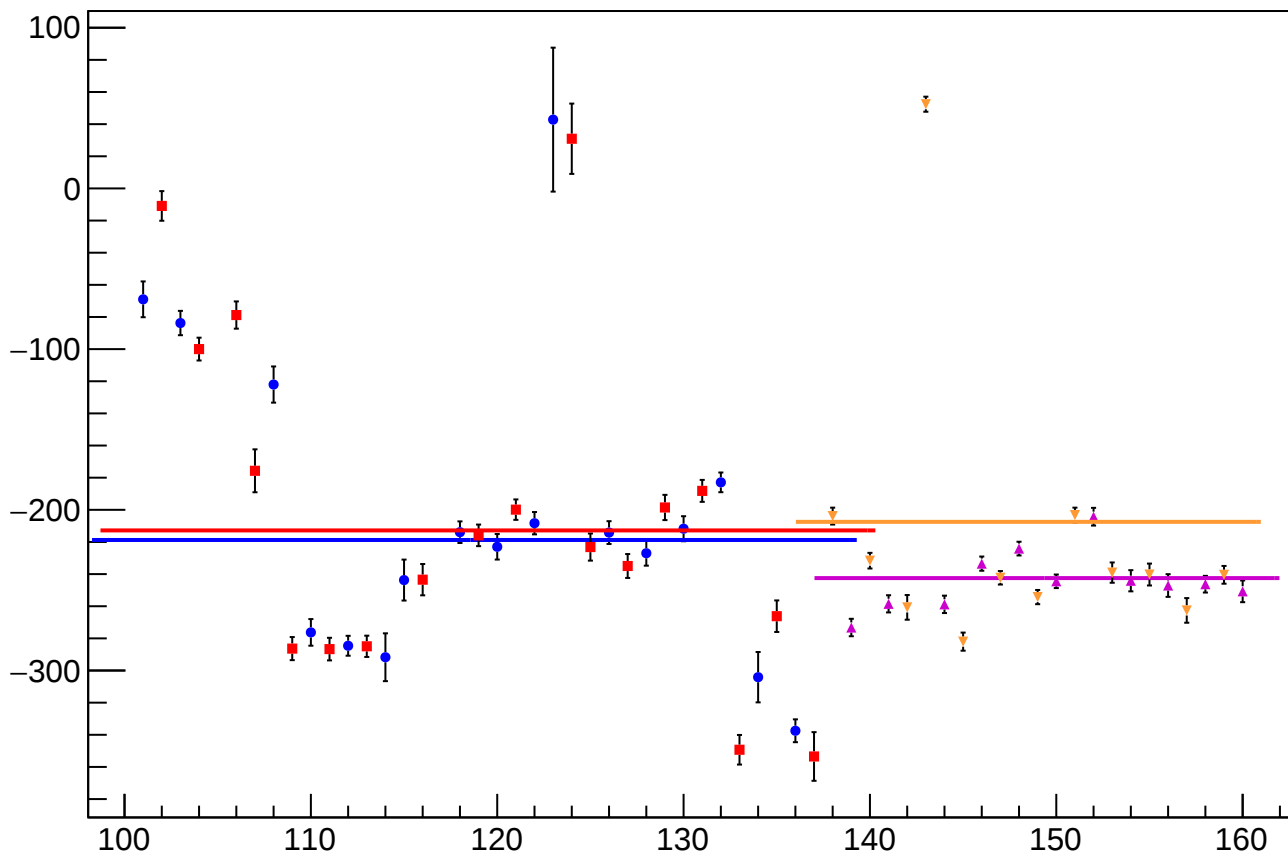
Right: 11.084+/-0.745  $\chi^2/\text{NDF}$ : 639.9/34

In: 5.247+/-0.755  $\chi^2/\text{NDF}$ : 521.5/27

Out: 4.538+/-0.731  $\chi^2/\text{NDF}$ : 451.8/29

All: 4.881+/-0.525  $\chi^2/\text{NDF}$ : 973.8/57

reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-218.770 \pm 2.010$   $\chi^2/\text{NDF}: 1144.4/16$

Left Out:  $-207.482 \pm 1.537$   $\chi^2/\text{NDF}: 3638.1/11$

Right Out:  $-212.817 \pm 1.926$   $\chi^2/\text{NDF}: 1824.5/17$

Left In:  $-242.486 \pm 1.581$   $\chi^2/\text{NDF}: 123.6/10$

Left:  $-224.492 \pm 1.102$   $\chi^2/\text{NDF}: 4013.8/22$

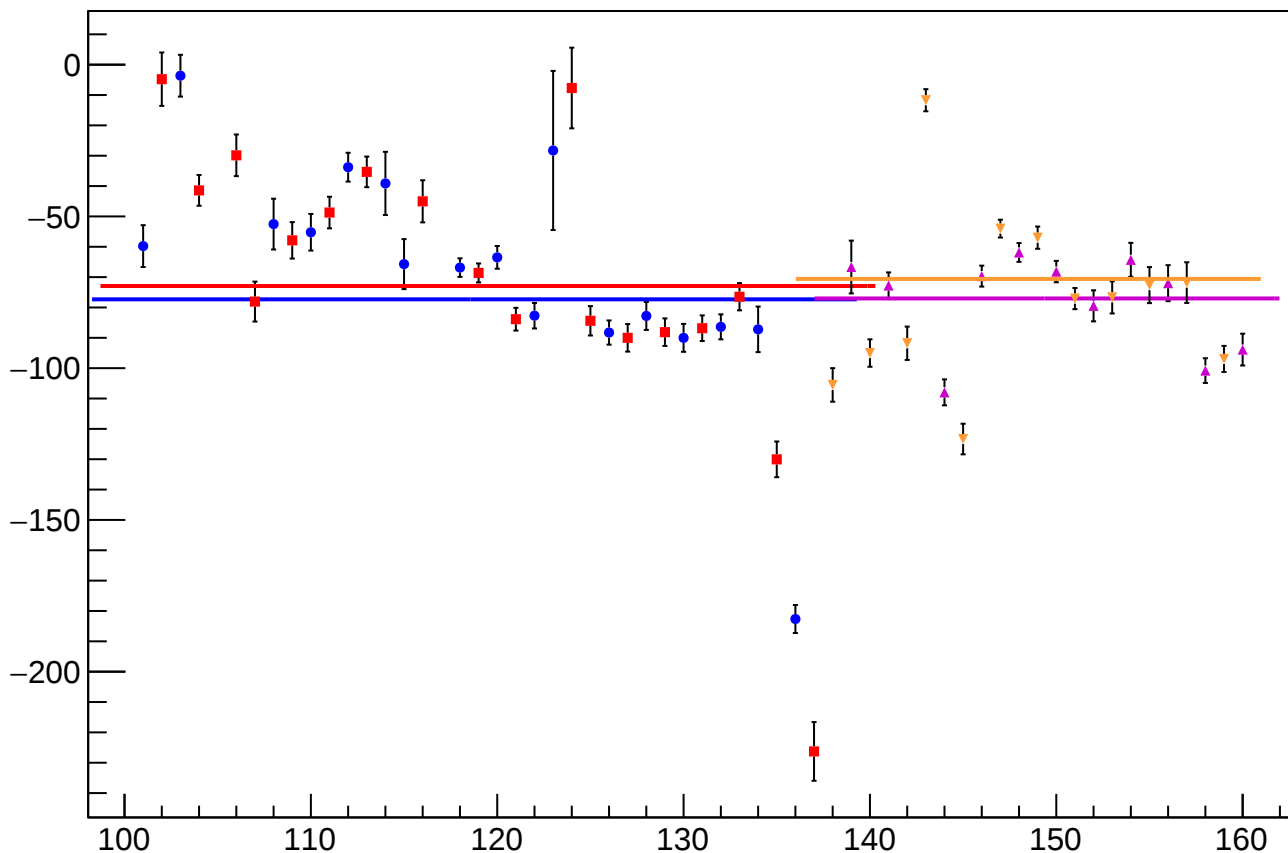
Right:  $-215.666 \pm 1.391$   $\chi^2/\text{NDF}: 2973.5/34$

In:  $-233.425 \pm 1.243$   $\chi^2/\text{NDF}: 1354.0/27$

Out:  $-209.557 \pm 1.201$   $\chi^2/\text{NDF}: 5467.3/29$

All:  $-221.089 \pm 0.864$   $\chi^2/\text{NDF}: 7012.0/57$

reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-77.319 \pm 1.222$   $\chi^2/\text{NDF}$ : 817.7/16

Left Out:  $-70.596 \pm 1.248$   $\chi^2/\text{NDF}$ : 542.6/11

Right Out:  $-72.922 \pm 1.208$   $\chi^2/\text{NDF}$ : 660.8/17

Left In:  $-77.028 \pm 1.307$   $\chi^2/\text{NDF}$ : 140.1/10

Left:  $-73.664 \pm 0.902$   $\chi^2/\text{NDF}$ : 695.3/22

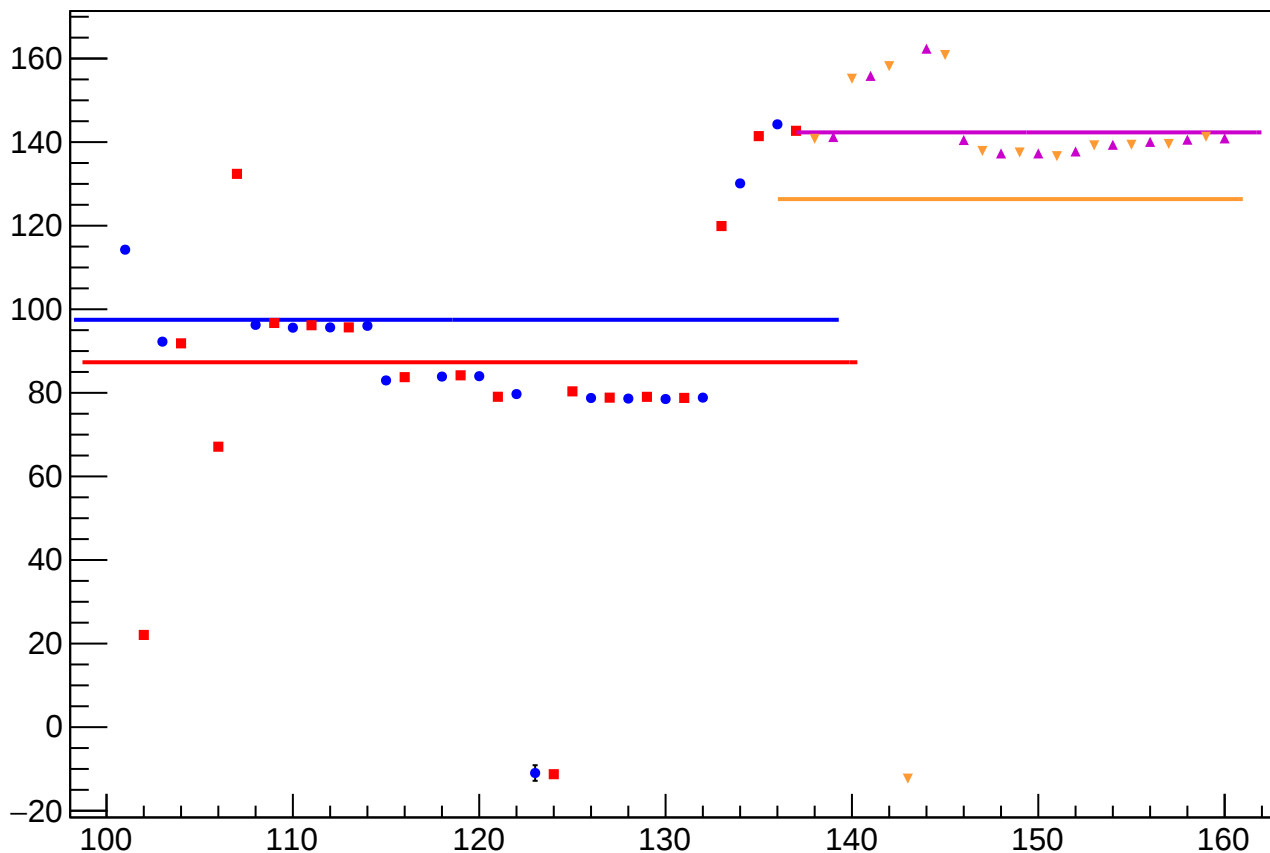
Right:  $-75.095 \pm 0.859$   $\chi^2/\text{NDF}$ : 1485.1/34

In:  $-77.183 \pm 0.893$   $\chi^2/\text{NDF}$ : 957.8/27

Out:  $-71.797 \pm 0.868$   $\chi^2/\text{NDF}$ : 1205.2/29

All:  $-74.415 \pm 0.622$   $\chi^2/\text{NDF}$ : 2181.7/57

reg\_asym\_atr1l2\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 97.483+/-0.073  $\chi^2/\text{NDF}$ : 94392.9/16

Left Out: 126.364+/-0.062  $\chi^2/\text{NDF}$ : 624684.9/11

Right Out: 87.318+/-0.068  $\chi^2/\text{NDF}$ : 221863.6/17

Left In: 142.328+/-0.063  $\chi^2/\text{NDF}$ : 13537.9/10

Left: 134.266+/-0.044  $\chi^2/\text{NDF}$ : 670958.9/22

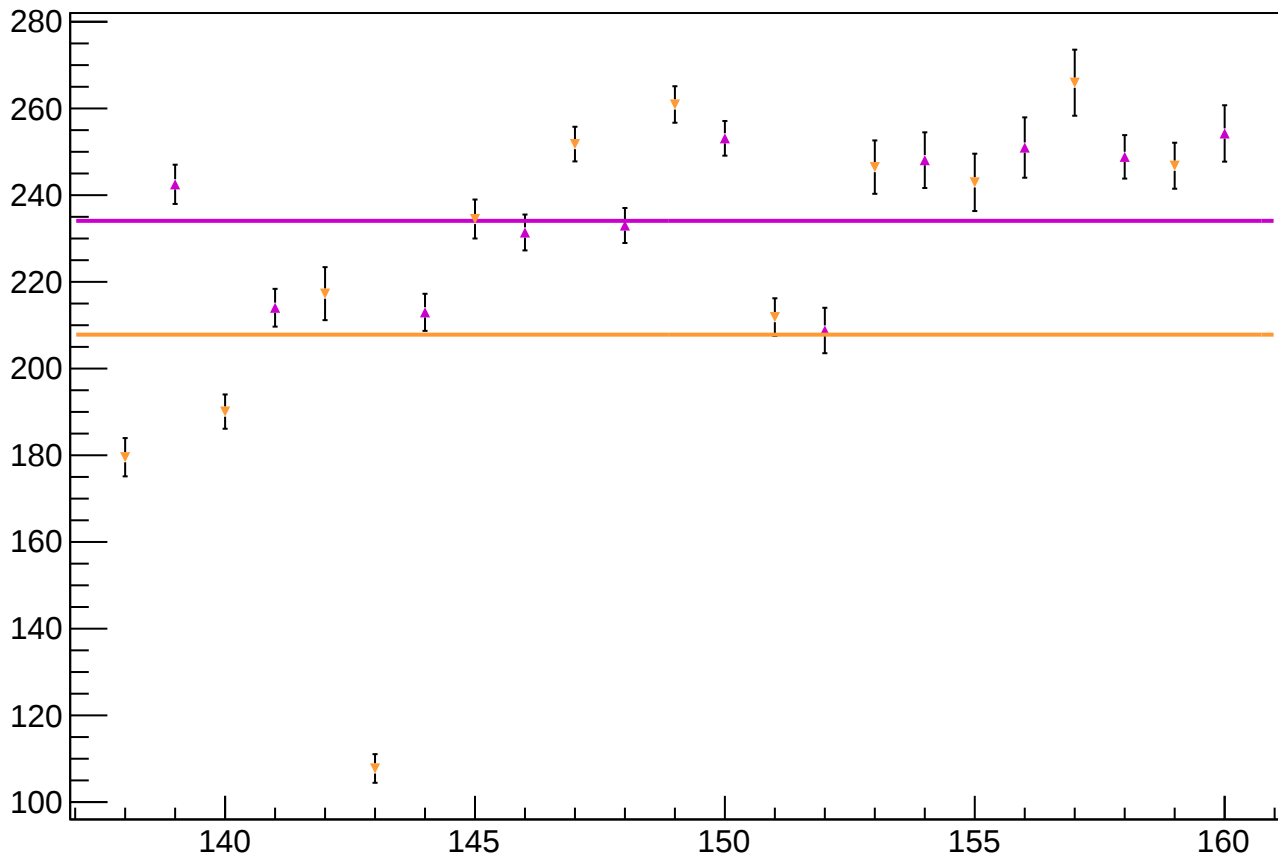
Right: 92.040+/-0.050  $\chi^2/\text{NDF}$ : 326534.9/34

In: 123.399+/-0.048  $\chi^2/\text{NDF}$ : 323849.2/27

Out: 108.713+/-0.046  $\chi^2/\text{NDF}$ : 1025417.1/29

All: 115.787+/-0.033  $\chi^2/\text{NDF}$ : 1398469.0/57

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 207.826+/-1.340  $\chi^2/\text{NDF}$ :1475.4/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 234.075+/-1.439  $\chi^2/\text{NDF}$ :124.3/10

Left: 220.019+/-0.981  $\chi^2/\text{NDF}$ : 1778.0/22

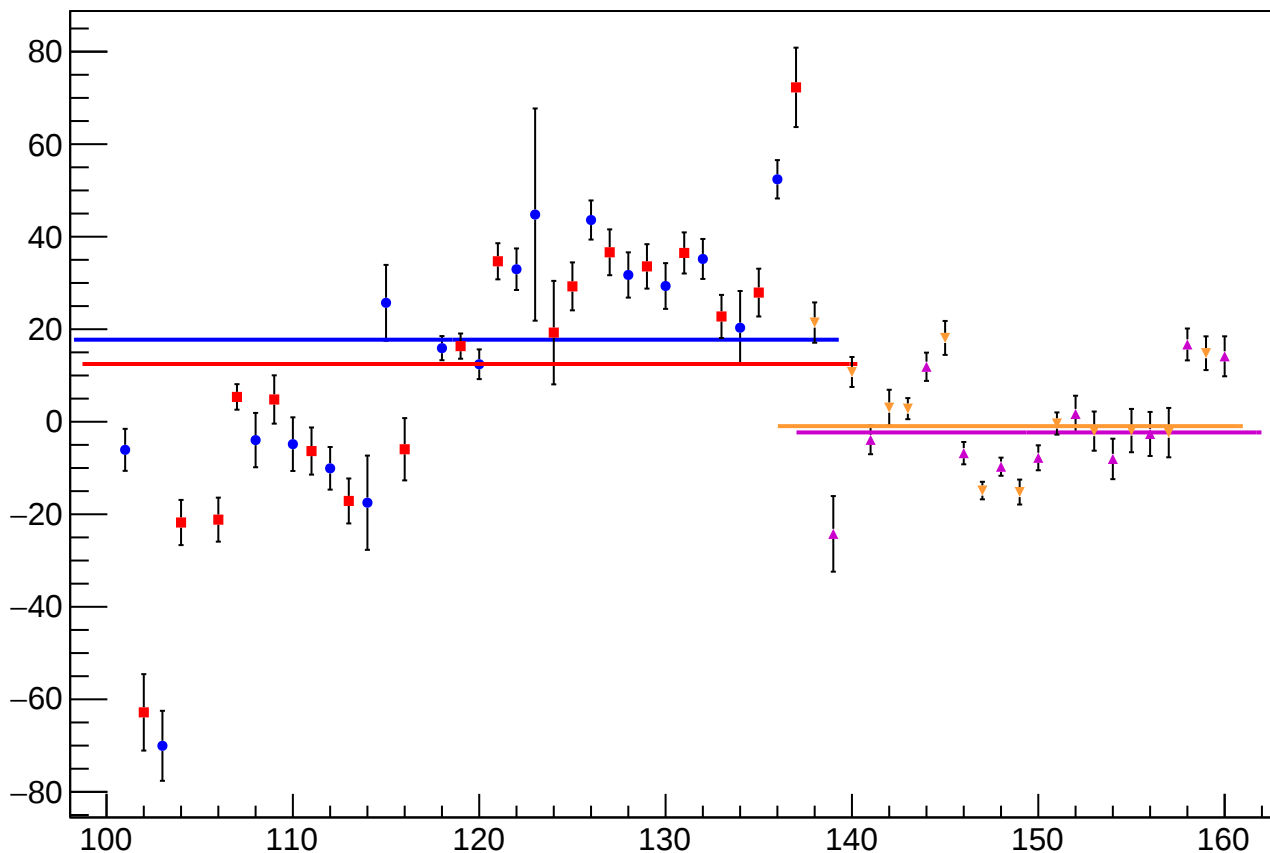
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 234.075+/-1.439  $\chi^2/\text{NDF}$ :124.3/10

Out: 207.826+/-1.340  $\chi^2/\text{NDF}$ :1475.4/11

All: 220.019+/-0.981  $\chi^2/\text{NDF}$ : 1778.0/22

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In: 17.737 $\pm$ 1.149  $\chi^2$ /NDF: 394.0/16

Left Out: -0.949 $\pm$ 0.882  $\chi^2$ /NDF:171.3/11

Right Out: 12.484 $\pm$ 1.085  $\chi^2$ /NDF: 429.2/17

Left In: -2.308 $\pm$ 0.956  $\chi^2$ /NDF:98.7/10

Left: -1.575 $\pm$ 0.648  $\chi^2$ /NDF: 271.1/22

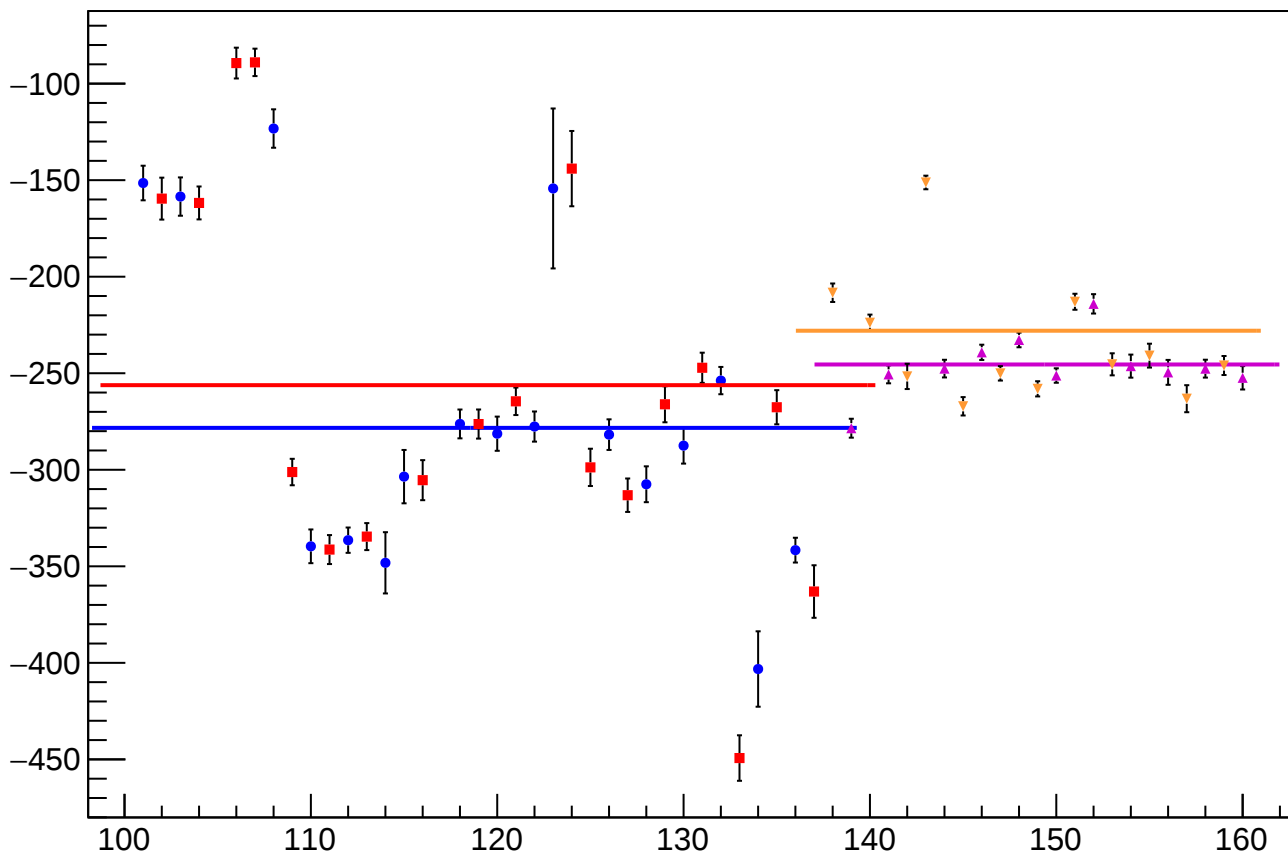
Right: 14.961 $\pm$ 0.789  $\chi^2$ /NDF: 834.2/34

In: 5.894 $\pm$ 0.735  $\chi^2$ /NDF:672.6/27

Out: 4.397 $\pm$ 0.685  $\chi^2$ /NDF:692.8/29

All: 5.092 $\pm$ 0.501  $\chi^2$ /NDF: 1367.6/57

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-278.294 \pm 2.172$   $\chi^2/\text{NDF}$ : 910.0/16

Left Out:  $-227.980 \pm 1.335$   $\chi^2/\text{NDF}$ : 731.7/11

Right Out:  $-256.177 \pm 2.025$   $\chi^2/\text{NDF}$ : 1952.2/17

Left In:  $-245.465 \pm 1.405$   $\chi^2/\text{NDF}$ : 104.1/10

Left:  $-236.279 \pm 0.968$   $\chi^2/\text{NDF}$ : 917.2/22

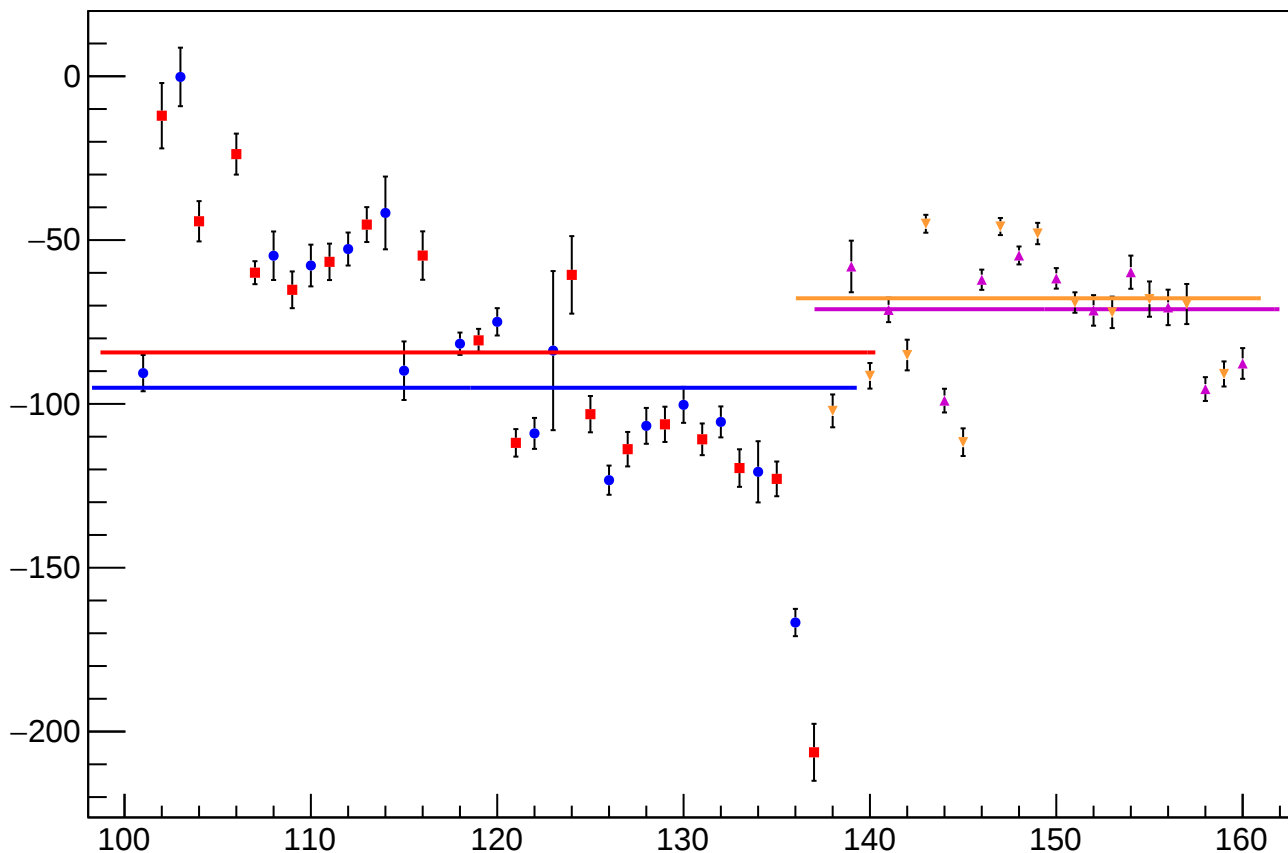
Right:  $-266.460 \pm 1.481$   $\chi^2/\text{NDF}$ : 2917.6/34

In:  $-255.144 \pm 1.179$   $\chi^2/\text{NDF}$ : 1175.1/27

Out:  $-236.523 \pm 1.115$   $\chi^2/\text{NDF}$ : 2819.1/29

All:  $-245.307 \pm 0.810$   $\chi^2/\text{NDF}$ : 4125.8/57

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-95.074 \pm 1.325$   $\chi^2/\text{NDF}$ : 673.2/16

Left Out:  $-67.758 \pm 1.080$   $\chi^2/\text{NDF}$ : 419.4/11

Right Out:  $-84.290 \pm 1.258$   $\chi^2/\text{NDF}$ : 768.8/17

Left In:  $-71.100 \pm 1.159$   $\chi^2/\text{NDF}$ : 178.0/10

Left:  $-69.312 \pm 0.790$   $\chi^2/\text{NDF}$ : 601.9/22

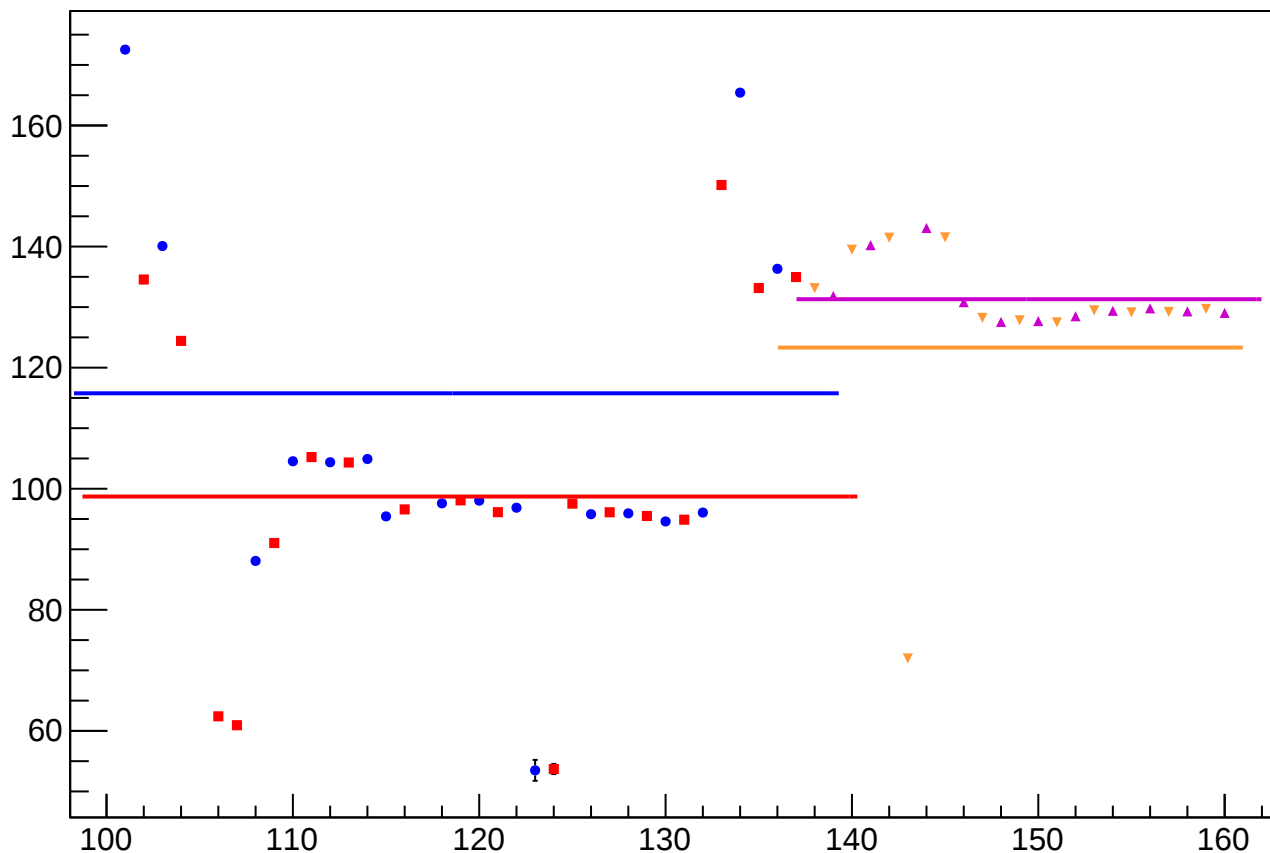
Right:  $-89.402 \pm 0.913$   $\chi^2/\text{NDF}$ : 1476.8/34

In:  $-81.486 \pm 0.872$   $\chi^2/\text{NDF}$ : 1036.7/27

Out:  $-74.770 \pm 0.820$   $\chi^2/\text{NDF}$ : 1287.6/29

All:  $-77.919 \pm 0.597$   $\chi^2/\text{NDF}$ : 2355.8/57

reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 115.763 $\pm$ 0.078  $\chi^2$ /NDF: 106297.4/16

Left Out: 123.323 $\pm$ 0.054  $\chi^2$ /NDF:161176.9/11

Right Out: 98.713 $\pm$ 0.069  $\chi^2$ /NDF: 170183.8/17

Left In: 131.305 $\pm$ 0.056  $\chi^2$ /NDF:7384.0/10

Left: 127.180 $\pm$ 0.039  $\chi^2$ /NDF: 179119.0/22

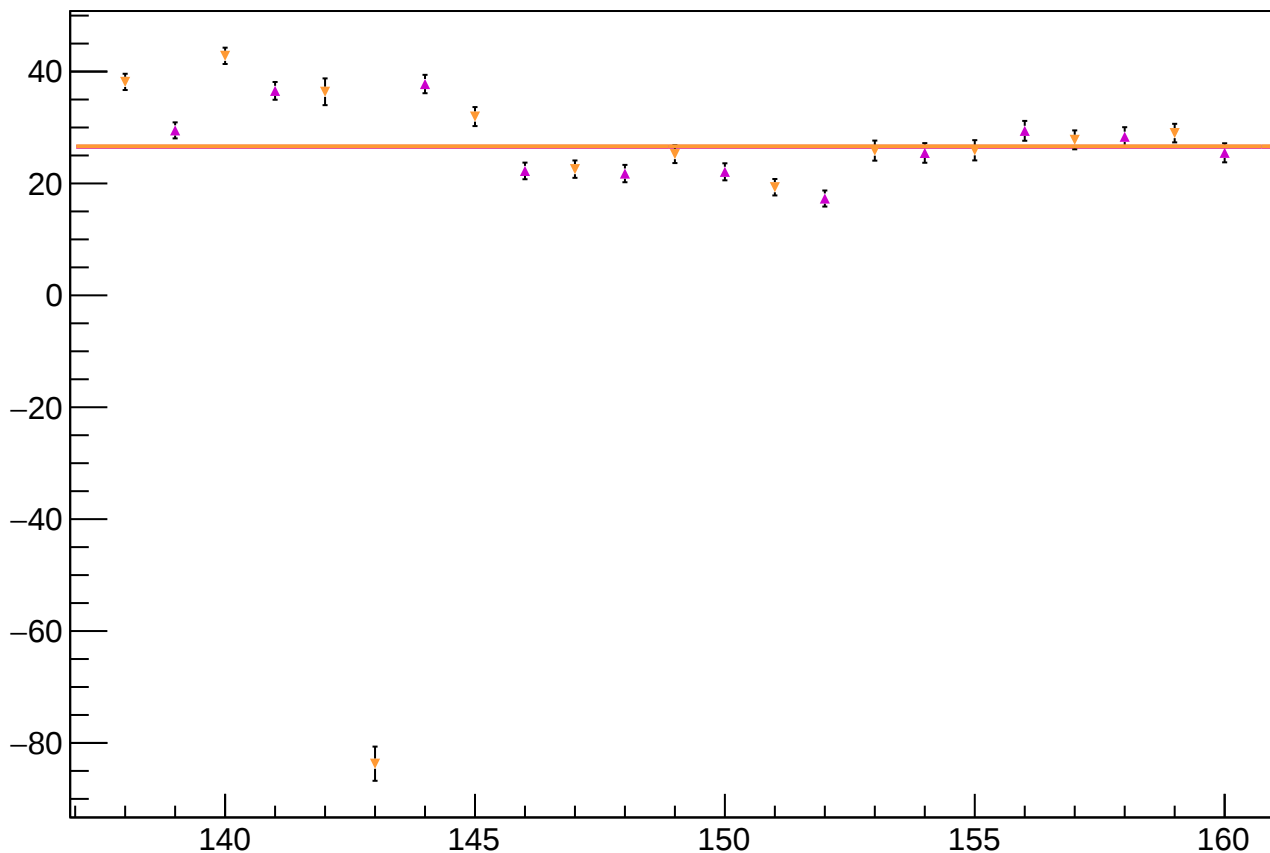
Right: 106.153 $\pm$ 0.052  $\chi^2$ /NDF: 303349.7/34

In: 126.046 $\pm$ 0.045  $\chi^2$ /NDF:139892.8/27

Out: 113.925 $\pm$ 0.042  $\chi^2$ /NDF:410655.4/29

All: 119.577 $\pm$ 0.031  $\chi^2$ /NDF: 588549.1/57

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 26.633+/-0.490  $\chi^2/\text{NDF}$ :1551.6/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 26.550+/-0.478  $\chi^2/\text{NDF}$ :163.0/10

Left: 26.591+/-0.342  $\chi^2/\text{NDF}$ : 1714.6/22

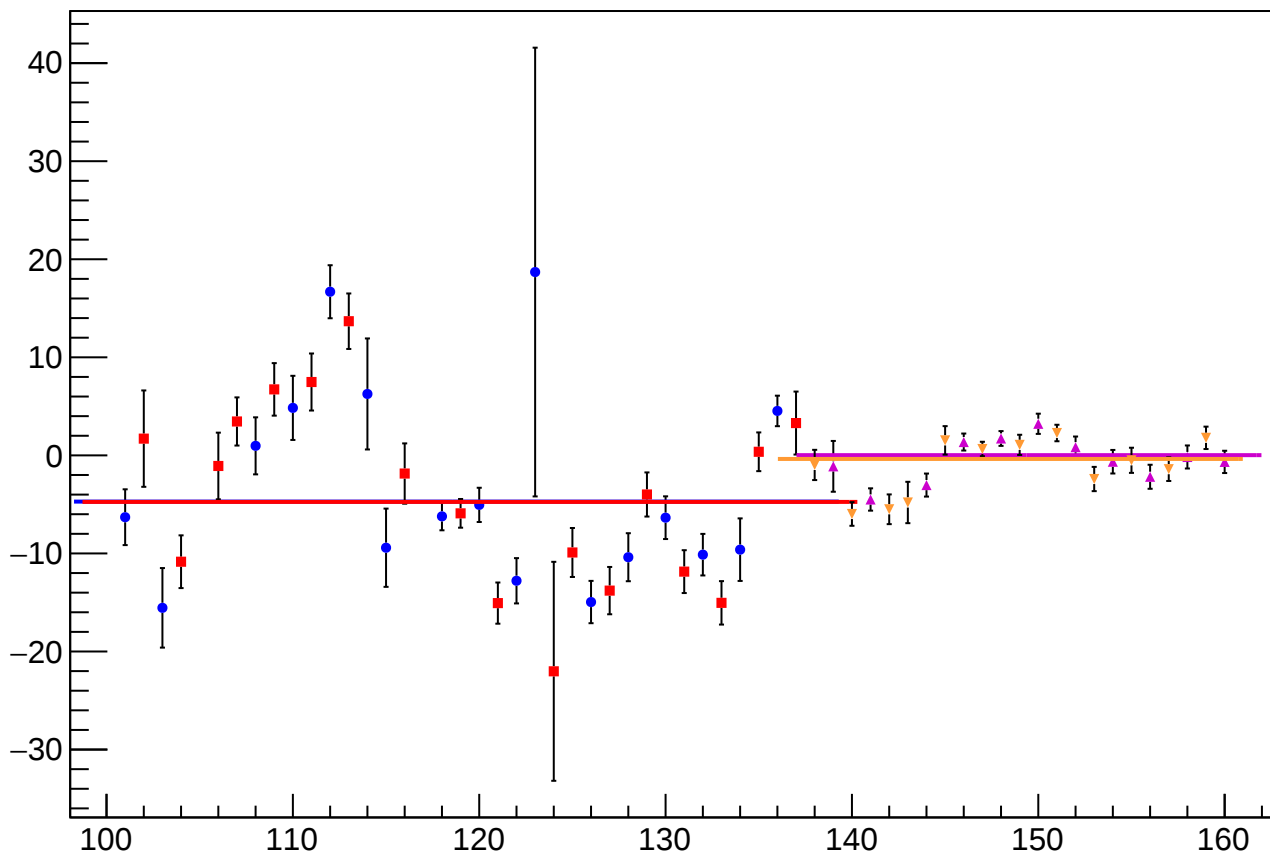
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: 26.550+/-0.478  $\chi^2/\text{NDF}$ :163.0/10

Out: 26.633+/-0.490  $\chi^2/\text{NDF}$ :1551.6/11

All: 26.591+/-0.342  $\chi^2/\text{NDF}$ : 1714.6/22

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $-4.713 \pm 0.581$   $\chi^2/\text{NDF}$ : 174.7/16

Left Out:  $-0.364 \pm 0.330$   $\chi^2/\text{NDF}$ : 60.3/11

Right Out:  $-4.745 \pm 0.585$   $\chi^2/\text{NDF}$ : 189.3/17

Left In:  $0.023 \pm 0.326$   $\chi^2/\text{NDF}$ : 44.3/10

Left:  $-0.168 \pm 0.232$   $\chi^2/\text{NDF}$ : 105.3/22

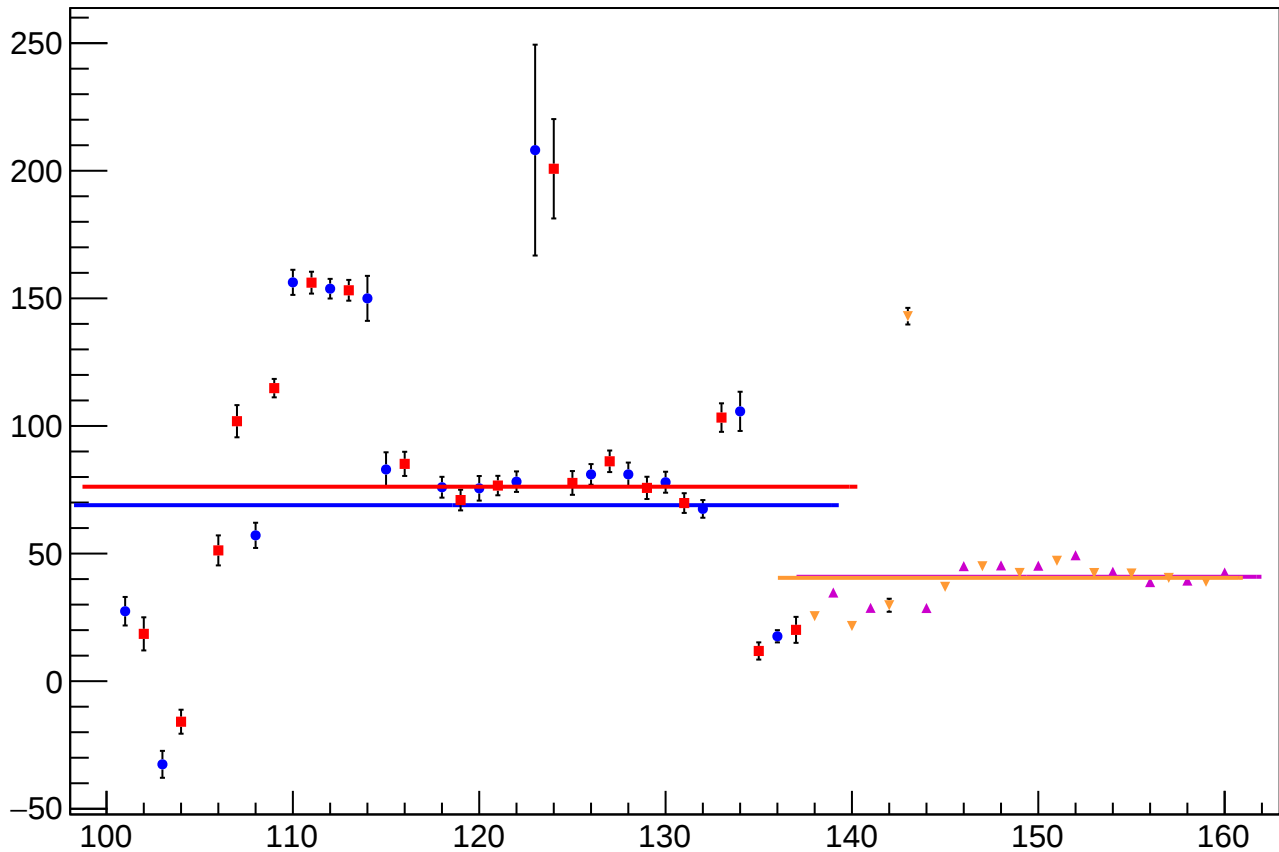
Right:  $-4.729 \pm 0.412$   $\chi^2/\text{NDF}$ : 364.0/34

In:  $-1.114 \pm 0.285$   $\chi^2/\text{NDF}$ : 269.5/27

Out:  $-1.422 \pm 0.288$   $\chi^2/\text{NDF}$ : 292.1/29

All:  $-1.267 \pm 0.202$   $\chi^2/\text{NDF}$ : 562.2/57

reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 68.960 $\pm$ 1.079  $\chi^2$ /NDF: 1844.0/16

Left Out: 40.493 $\pm$ 0.479  $\chi^2$ /NDF:1286.9/11

Right Out: 76.199 $\pm$ 1.071  $\chi^2$ /NDF: 1881.0/17

Left In: 40.910 $\pm$ 0.465  $\chi^2$ /NDF:186.4/10

Left: 40.708 $\pm$ 0.334  $\chi^2$ /NDF: 1473.7/22

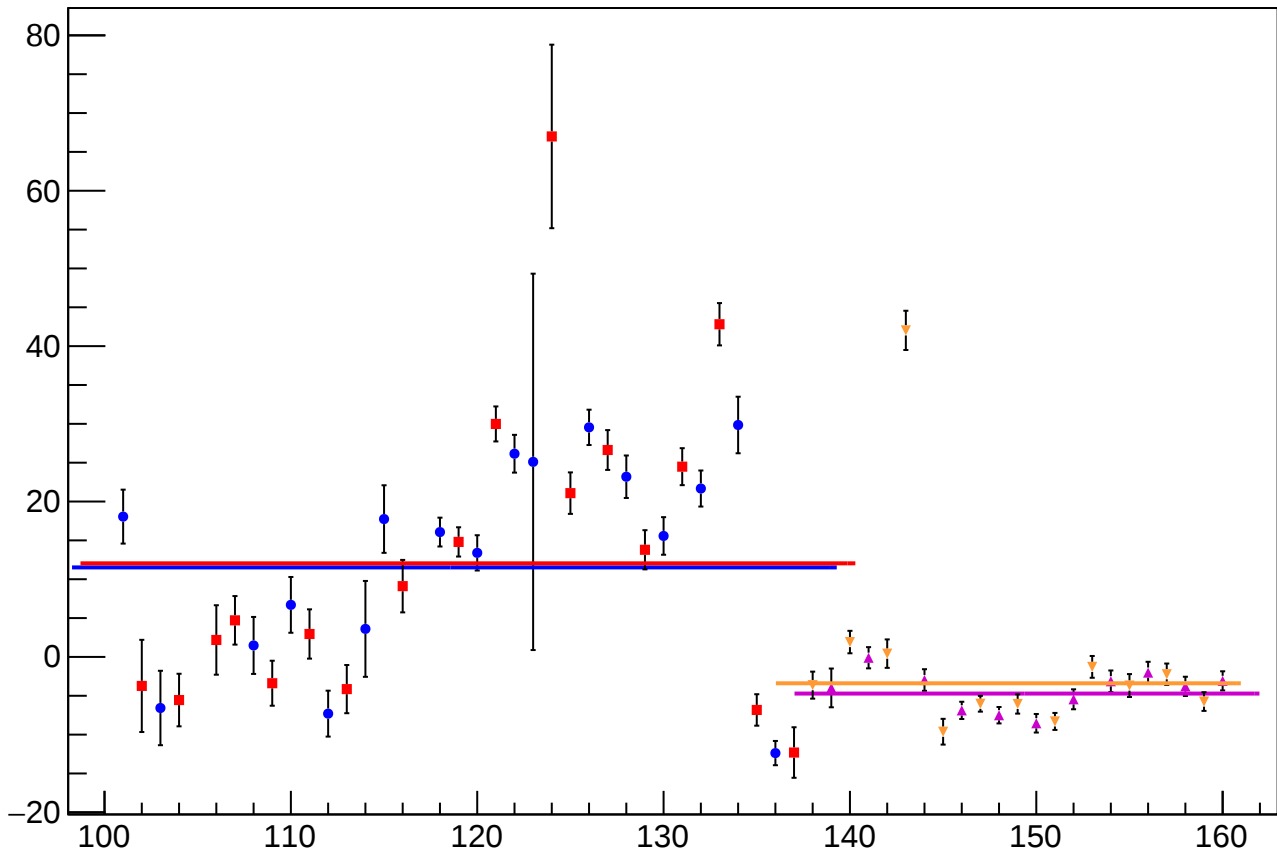
Right: 72.606 $\pm$ 0.760  $\chi^2$ /NDF: 3747.6/34

In: 45.301 $\pm$ 0.427  $\chi^2$ /NDF:2600.4/27

Out: 46.449 $\pm$ 0.437  $\chi^2$ /NDF:4094.0/29

All: 45.861 $\pm$ 0.305  $\chi^2$ /NDF: 6698.0/57

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 11.521+/-0.660  $\chi^2/\text{NDF}$ : 477.2/16

Left Out: -3.394+/-0.399  $\chi^2/\text{NDF}$ : 393.8/11

Right Out: 12.046+/-0.665  $\chi^2/\text{NDF}$ : 538.7/17

Left In: -4.716+/-0.390  $\chi^2/\text{NDF}$ : 41.8/10

Left: -4.070+/-0.279  $\chi^2/\text{NDF}$ : 441.2/22

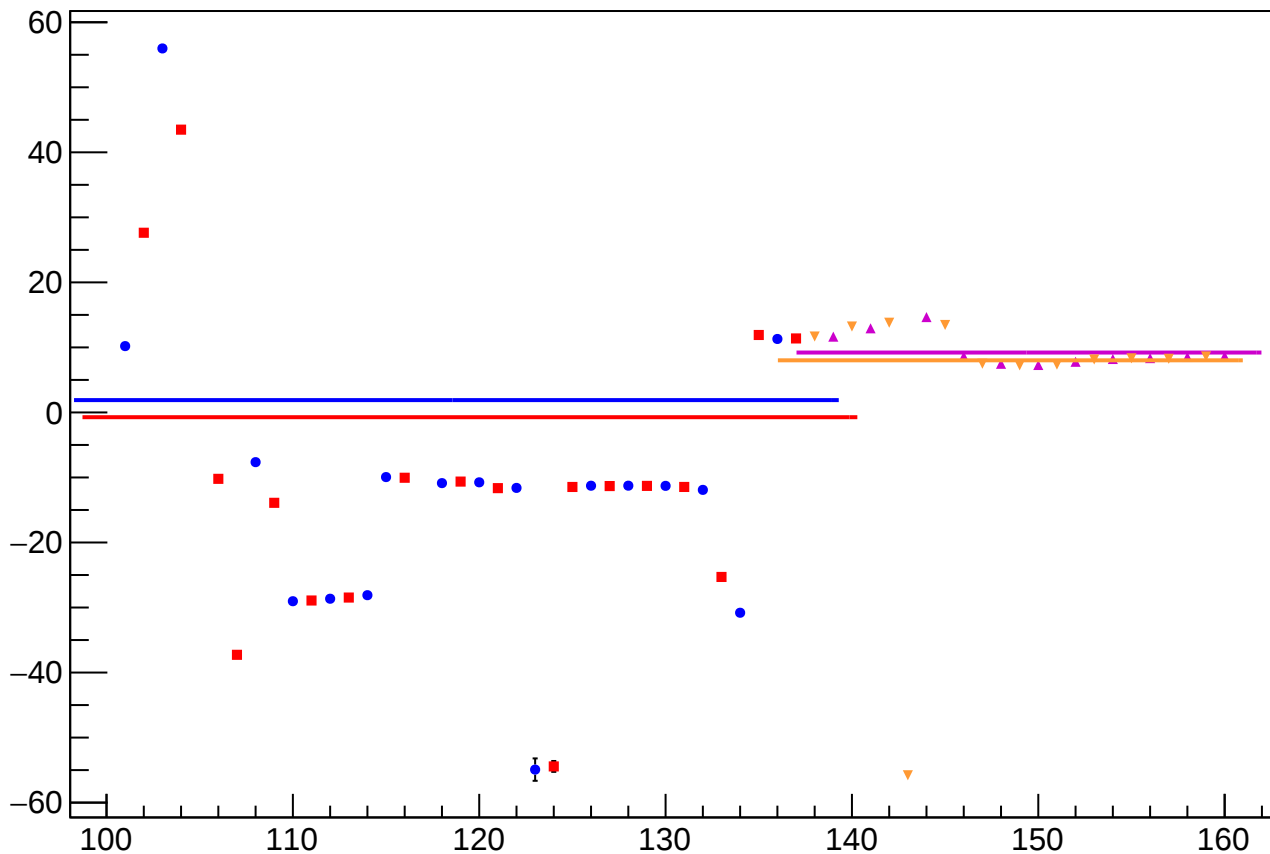
Right: 11.782+/-0.468  $\chi^2/\text{NDF}$ : 1016.2/34

In: -0.513+/-0.336  $\chi^2/\text{NDF}$ : 967.8/27

Out: 0.703+/-0.342  $\chi^2/\text{NDF}$ : 1329.2/29

All: 0.083+/-0.240  $\chi^2/\text{NDF}$ : 2303.4/57

reg\_asym\_atl\_dd\_atr\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 1.896 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 358855.7/16

Left Out: 8.014 $\pm$ 0.019  $\chi^2/\text{NDF}$ : 256452.0/11

Right Out: -0.733 $\pm$ 0.037  $\chi^2/\text{NDF}$ : 359934.4/17

Left In: 9.211 $\pm$ 0.018  $\chi^2/\text{NDF}$ : 13347.5/10

Left: 8.636 $\pm$ 0.013  $\chi^2/\text{NDF}$ : 271911.6/22

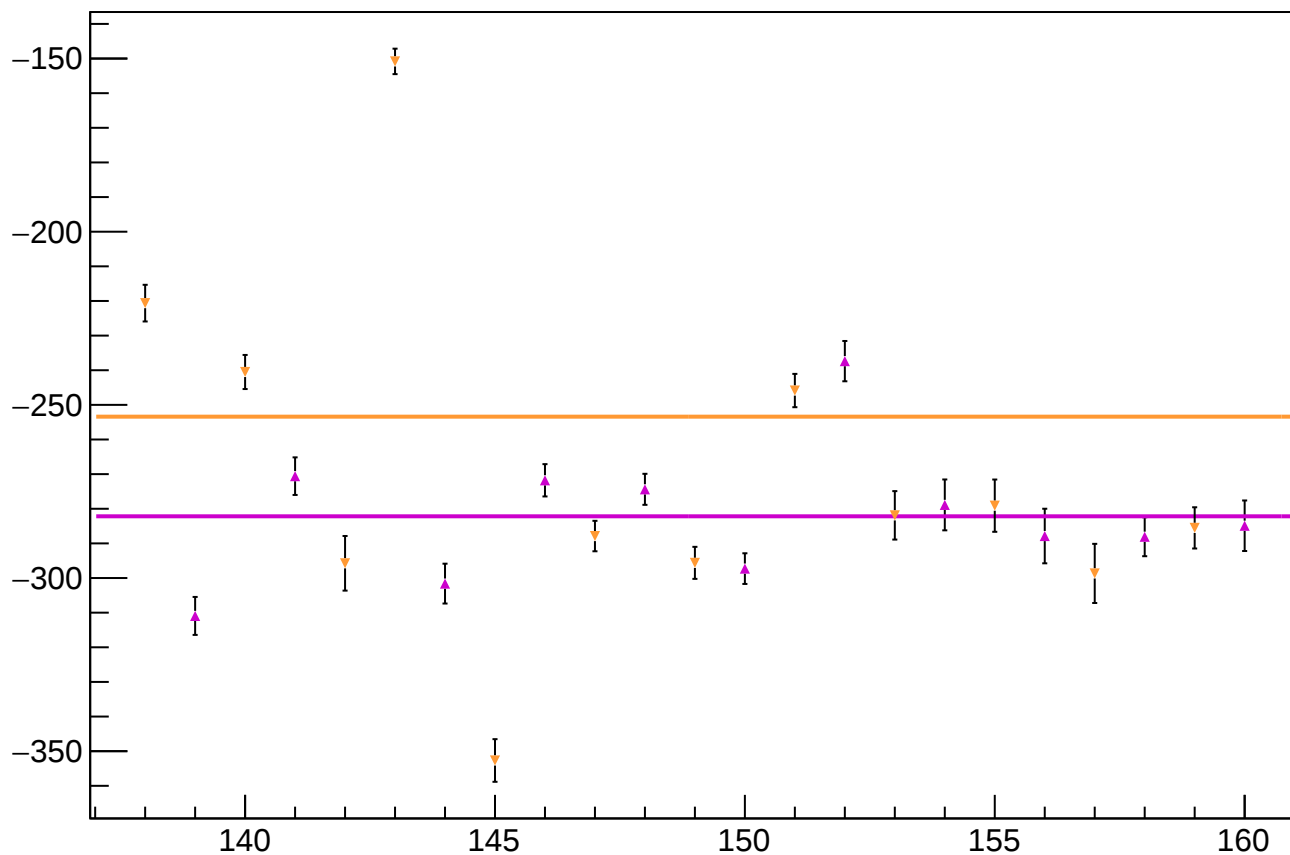
Right: 0.584 $\pm$ 0.026  $\chi^2/\text{NDF}$ : 721303.3/34

In: 7.808 $\pm$ 0.016  $\chi^2/\text{NDF}$ : 403715.6/27

Out: 6.233 $\pm$ 0.017  $\chi^2/\text{NDF}$ : 660617.3/29

All: 7.045 $\pm$ 0.012  $\chi^2/\text{NDF}$ : 1068894.9/57

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -253.406+/-1.552  $\chi^2/\text{NDF}$ :1345.6/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -282.177+/-1.669  $\chi^2/\text{NDF}$ :124.5/10

Left: -266.747+/-1.137  $\chi^2/\text{NDF}$ : 1629.4/22

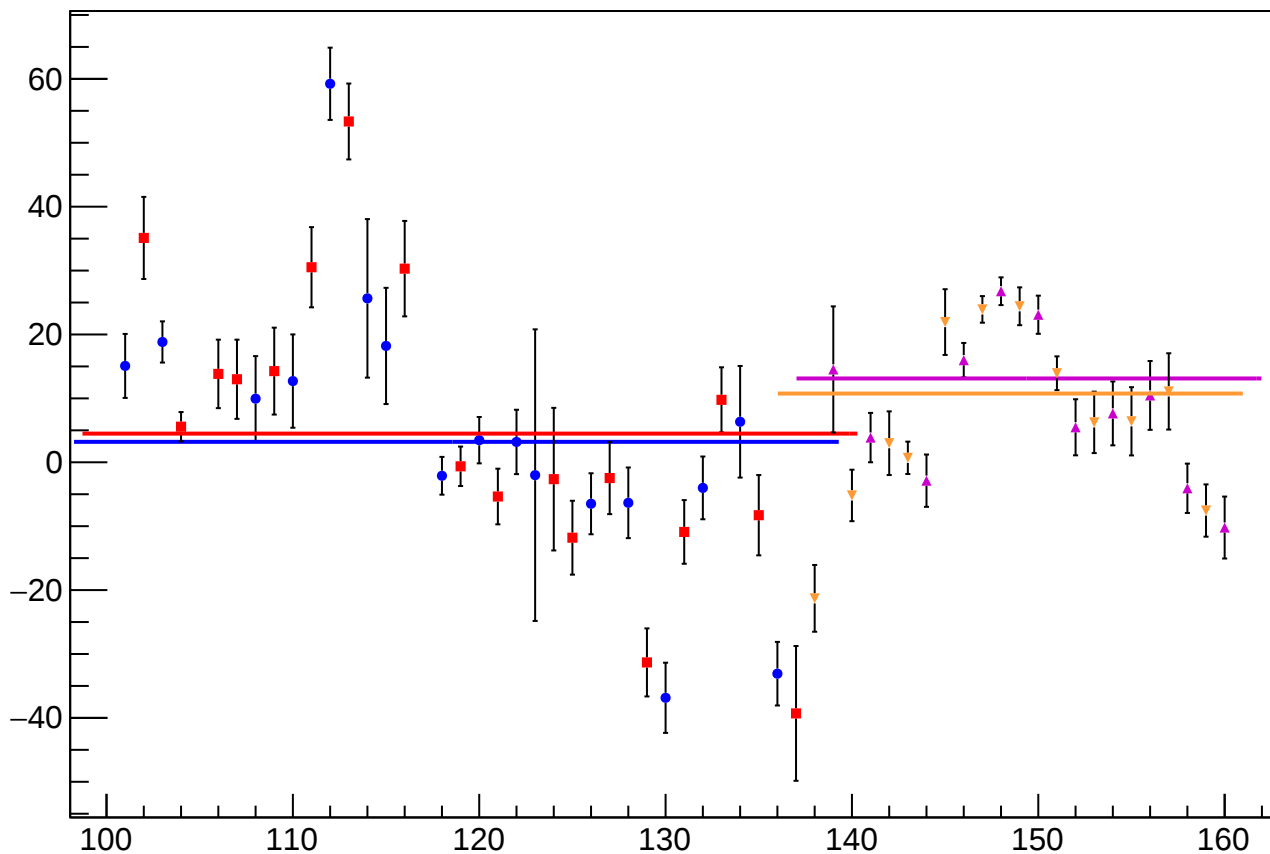
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -282.177+/-1.669  $\chi^2/\text{NDF}$ :124.5/10

Out: -253.406+/-1.552  $\chi^2/\text{NDF}$ :1345.6/11

All: -266.747+/-1.137  $\chi^2/\text{NDF}$ : 1629.4/22

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $3.200 \pm 1.227$   $\chi^2/\text{NDF}$ : 255.2/16

Left Out:  $10.757 \pm 1.007$   $\chi^2/\text{NDF}$ : 160.5/11

Right Out:  $4.489 \pm 1.159$   $\chi^2/\text{NDF}$ : 221.8/17

Left In:  $13.117 \pm 1.094$   $\chi^2/\text{NDF}$ : 120.3/10

Left:  $11.840 \pm 0.741$   $\chi^2/\text{NDF}$ : 283.4/22

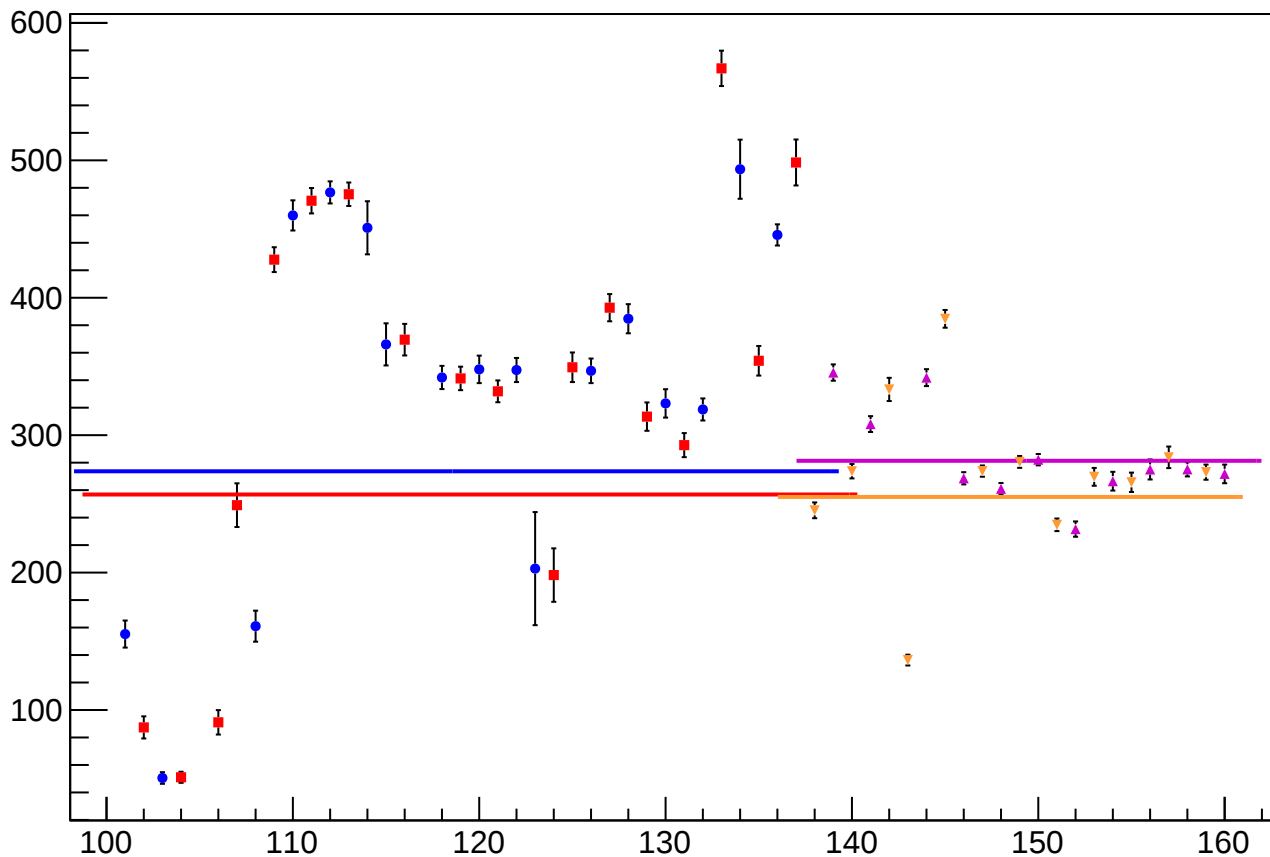
Right:  $3.881 \pm 0.843$   $\chi^2/\text{NDF}$ : 477.5/34

In:  $8.726 \pm 0.817$   $\chi^2/\text{NDF}$ : 411.9/27

Out:  $8.060 \pm 0.760$   $\chi^2/\text{NDF}$ : 399.0/29

All:  $8.369 \pm 0.556$   $\chi^2/\text{NDF}$ : 811.2/57

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In: 273.717+/-2.195  $\chi^2/\text{NDF}$ : 5103.3/16

Left Out: 255.058+/-1.537  $\chi^2/\text{NDF}$ :1528.5/11

Right Out: 256.826+/-2.084  $\chi^2/\text{NDF}$ : 6411.8/17

Left In: 281.348+/-1.619  $\chi^2/\text{NDF}$ :355.5/10

Left: 267.521+/-1.115  $\chi^2/\text{NDF}$ : 2022.7/22

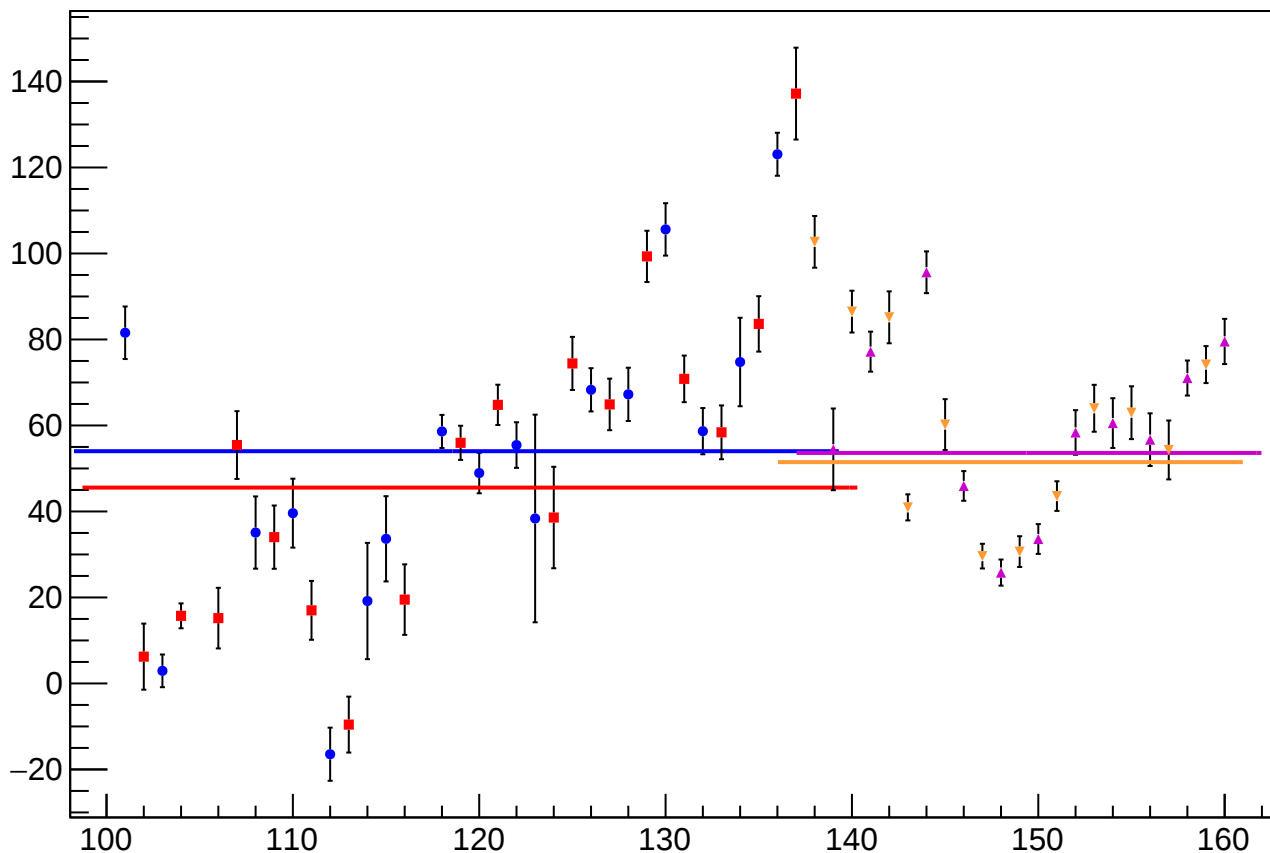
Right: 264.834+/-1.511  $\chi^2/\text{NDF}$ : 11546.2/34

In: 278.659+/-1.303  $\chi^2/\text{NDF}$ :5466.6/27

Out: 255.681+/-1.237  $\chi^2/\text{NDF}$ :7940.7/29

All: 266.574+/-0.897  $\chi^2/\text{NDF}$ : 13571.0/57

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In: 54.016 $\pm$ 1.423  $\chi^2$ /NDF: 632.9/16

Left Out: 51.475 $\pm$ 1.237  $\chi^2$ /NDF:303.5/11

Right Out: 45.552 $\pm$ 1.358  $\chi^2$ /NDF: 526.6/17

Left In: 53.612 $\pm$ 1.330  $\chi^2$ /NDF:267.9/10

Left: 52.466 $\pm$ 0.906  $\chi^2$ /NDF: 572.8/22

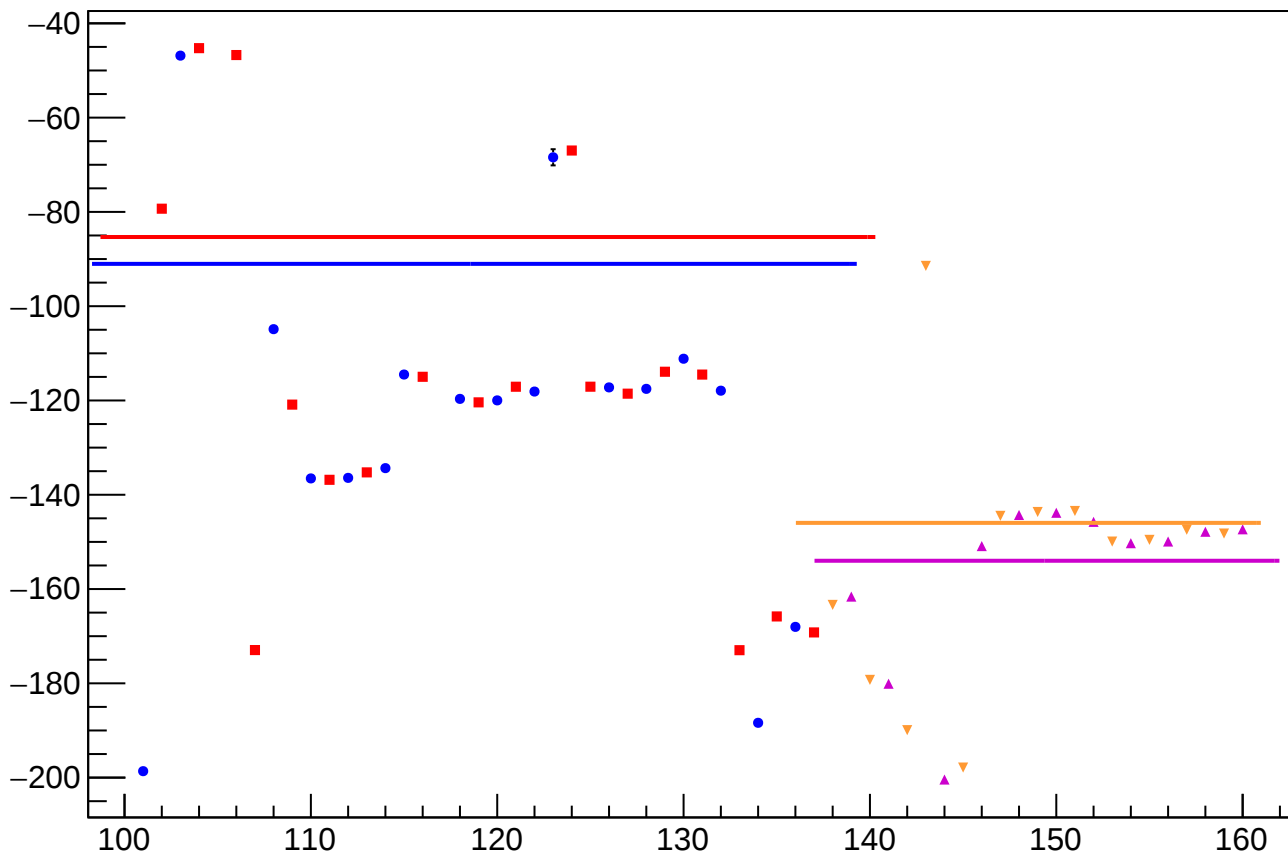
Right: 49.587 $\pm$ 0.983  $\chi^2$ /NDF: 1178.0/34

In: 53.800 $\pm$ 0.972  $\chi^2$ /NDF:900.8/27

Out: 48.790 $\pm$ 0.915  $\chi^2$ /NDF:840.6/29

All: 51.144 $\pm$ 0.666  $\chi^2$ /NDF: 1755.4/57

reg\_asym\_atl\_avg\_atr\_avg\_avg\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $-91.021 \pm 0.068$   $\chi^2/\text{NDF}: 534258.1/16$

Left Out:  $-145.963 \pm 0.062$   $\chi^2/\text{NDF}: 205458.0/11$

Right Out:  $-85.325 \pm 0.065$   $\chi^2/\text{NDF}: 483106.3/17$

Left In:  $-154.000 \pm 0.064$   $\chi^2/\text{NDF}: 53661.8/10$

Left:  $-149.851 \pm 0.045$   $\chi^2/\text{NDF}: 267175.4/22$

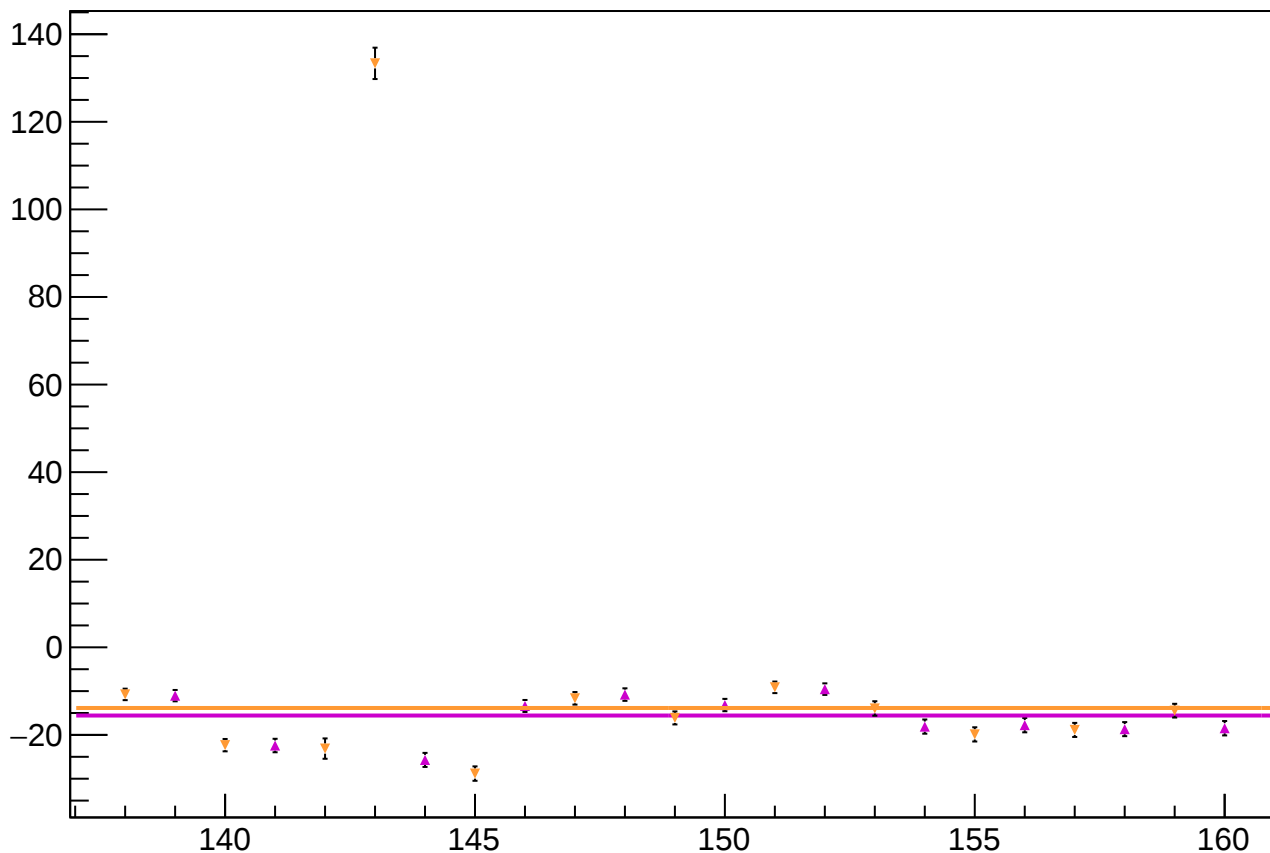
Right:  $-88.069 \pm 0.047$   $\chi^2/\text{NDF}: 1021045.4/34$

In:  $-124.057 \pm 0.047$   $\chi^2/\text{NDF}: 1043454.2/27$

Out:  $-117.014 \pm 0.045$   $\chi^2/\text{NDF}: 1141105.0/29$

All:  $-120.414 \pm 0.032$   $\chi^2/\text{NDF}: 2196374.7/57$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -13.850+/-0.458  $\chi^2/\text{NDF}$ :1870.8/11

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -15.574+/-0.447  $\chi^2/\text{NDF}$ :120.3/10

Left: -14.734+/-0.320  $\chi^2/\text{NDF}$ : 1998.3/22

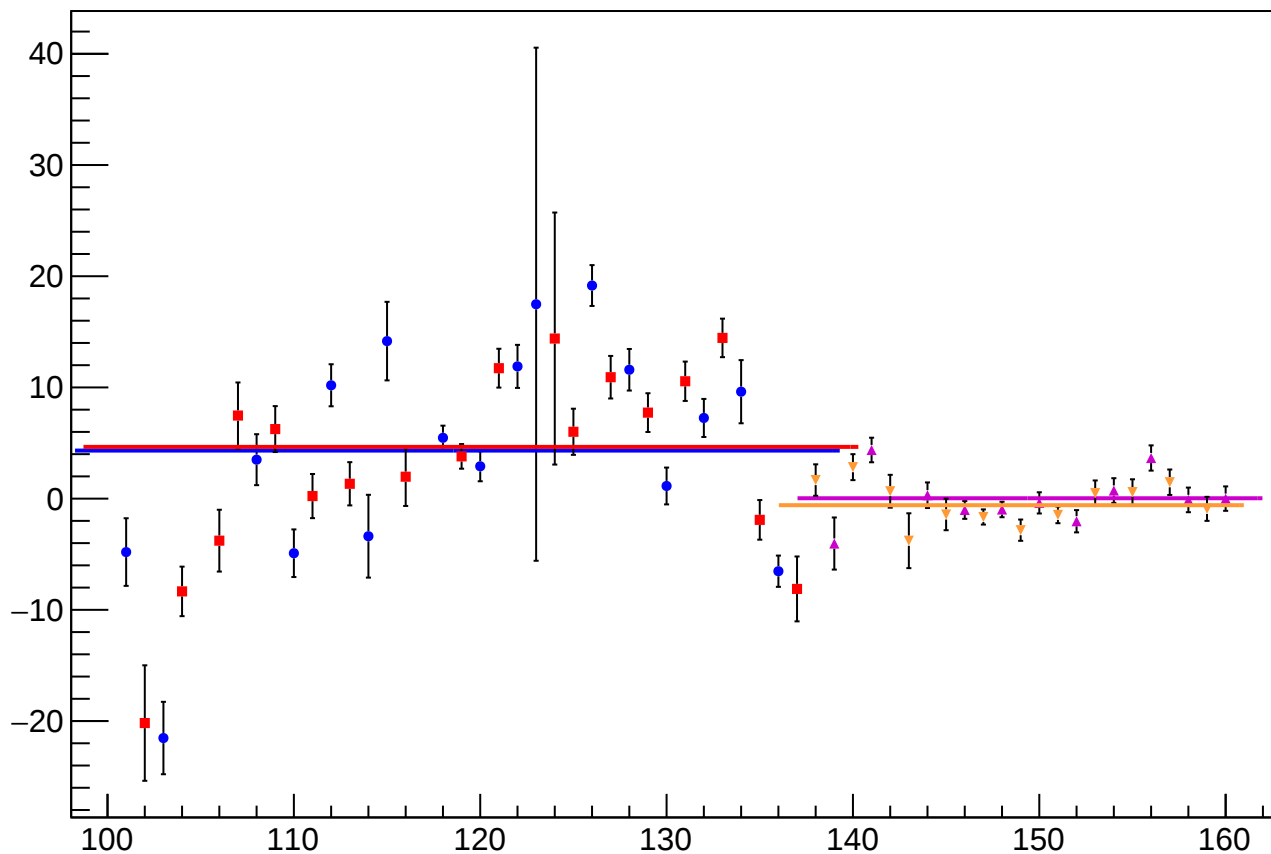
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -15.574+/-0.447  $\chi^2/\text{NDF}$ :120.3/10

Out: -13.850+/-0.458  $\chi^2/\text{NDF}$ :1870.8/11

All: -14.734+/-0.320  $\chi^2/\text{NDF}$ : 1998.3/22

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $4.322 \pm 0.465$   $\chi^2/\text{NDF}$ : 280.3/16

Left Out:  $-0.589 \pm 0.308$   $\chi^2/\text{NDF}$ : 28.5/11

Right Out:  $4.653 \pm 0.474$   $\chi^2/\text{NDF}$ : 184.4/17

Left In:  $0.034 \pm 0.305$   $\chi^2/\text{NDF}$ : 37.4/10

Left:  $-0.275 \pm 0.217$   $\chi^2/\text{NDF}$ : 67.9/22

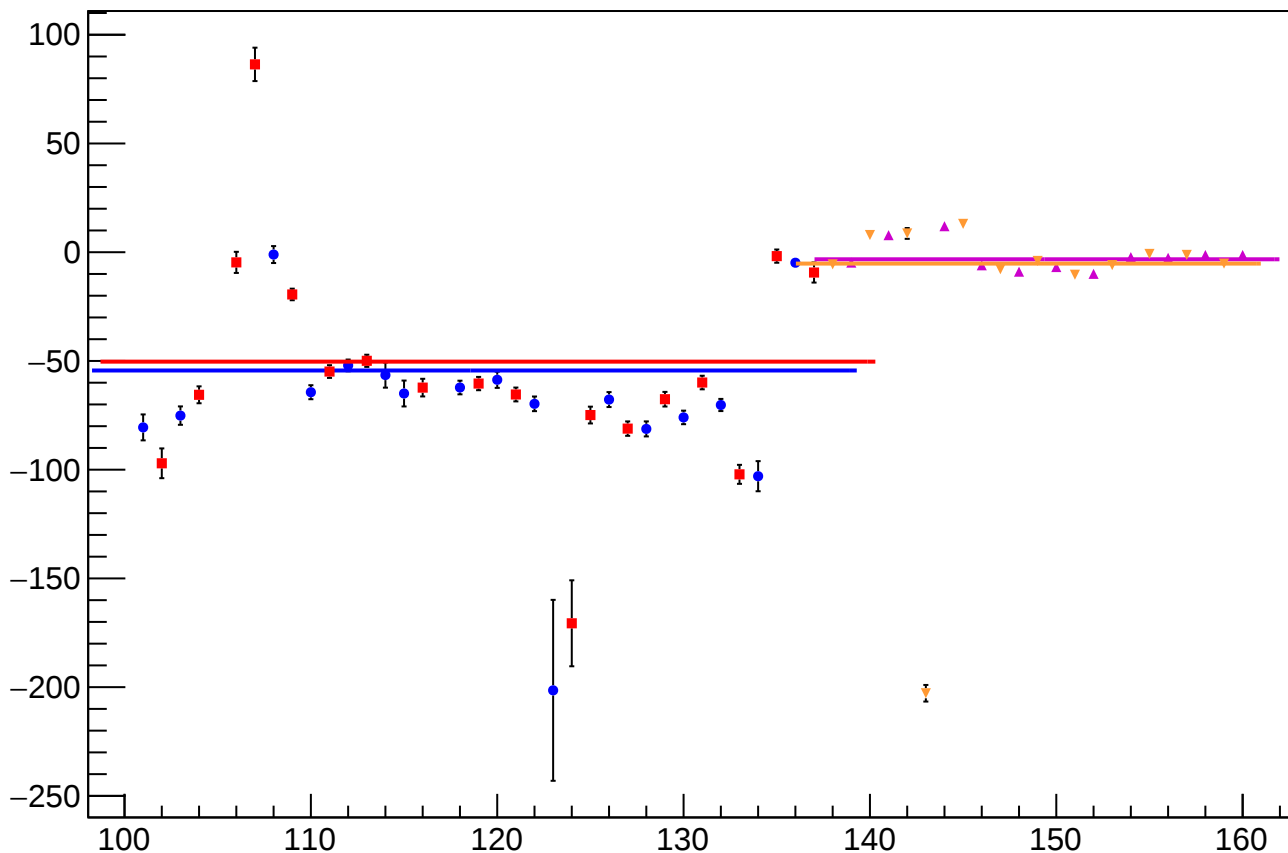
Right:  $4.484 \pm 0.332$   $\chi^2/\text{NDF}$ : 465.0/34

In:  $1.325 \pm 0.255$   $\chi^2/\text{NDF}$ : 377.0/27

Out:  $0.969 \pm 0.258$   $\chi^2/\text{NDF}$ : 298.9/29

All:  $1.149 \pm 0.182$   $\chi^2/\text{NDF}$ : 676.8/57

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-54.387 \pm 0.864$   $\chi^2/\text{NDF}: 1014.0/16$

Left Out:  $-5.231 \pm 0.448$   $\chi^2/\text{NDF}: 2933.7/11$

Right Out:  $-50.316 \pm 0.858$   $\chi^2/\text{NDF}: 1319.3/17$

Left In:  $-3.252 \pm 0.434$   $\chi^2/\text{NDF}: 187.2/10$

Left:  $-4.211 \pm 0.312$   $\chi^2/\text{NDF}: 3130.9/22$

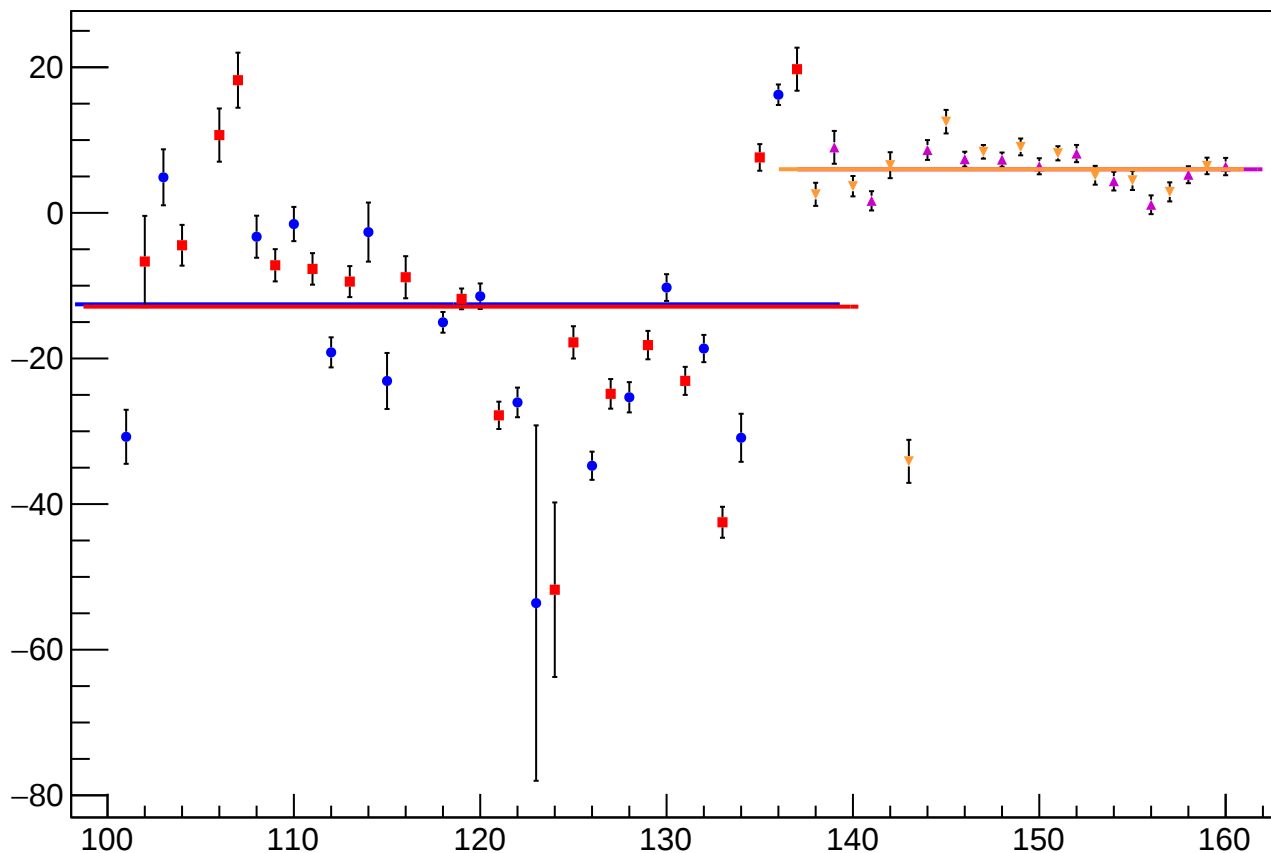
Right:  $-52.337 \pm 0.609$   $\chi^2/\text{NDF}: 2344.4/34$

In:  $-13.541 \pm 0.388$   $\chi^2/\text{NDF}: 3995.9/27$

Out:  $-14.868 \pm 0.397$   $\chi^2/\text{NDF}: 6422.4/29$

All:  $-14.190 \pm 0.277$   $\chi^2/\text{NDF}: 10424.0/57$

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-12.561 \pm 0.531$   $\chi^2/\text{NDF}$ : 779.5/16

Left Out:  $5.998 \pm 0.373$   $\chi^2/\text{NDF}$ : 234.2/11

Right Out:  $-12.881 \pm 0.538$   $\chi^2/\text{NDF}$ : 726.6/17

Left In:  $5.981 \pm 0.365$   $\chi^2/\text{NDF}$ : 39.8/10

Left:  $5.989 \pm 0.261$   $\chi^2/\text{NDF}$ : 274.1/22

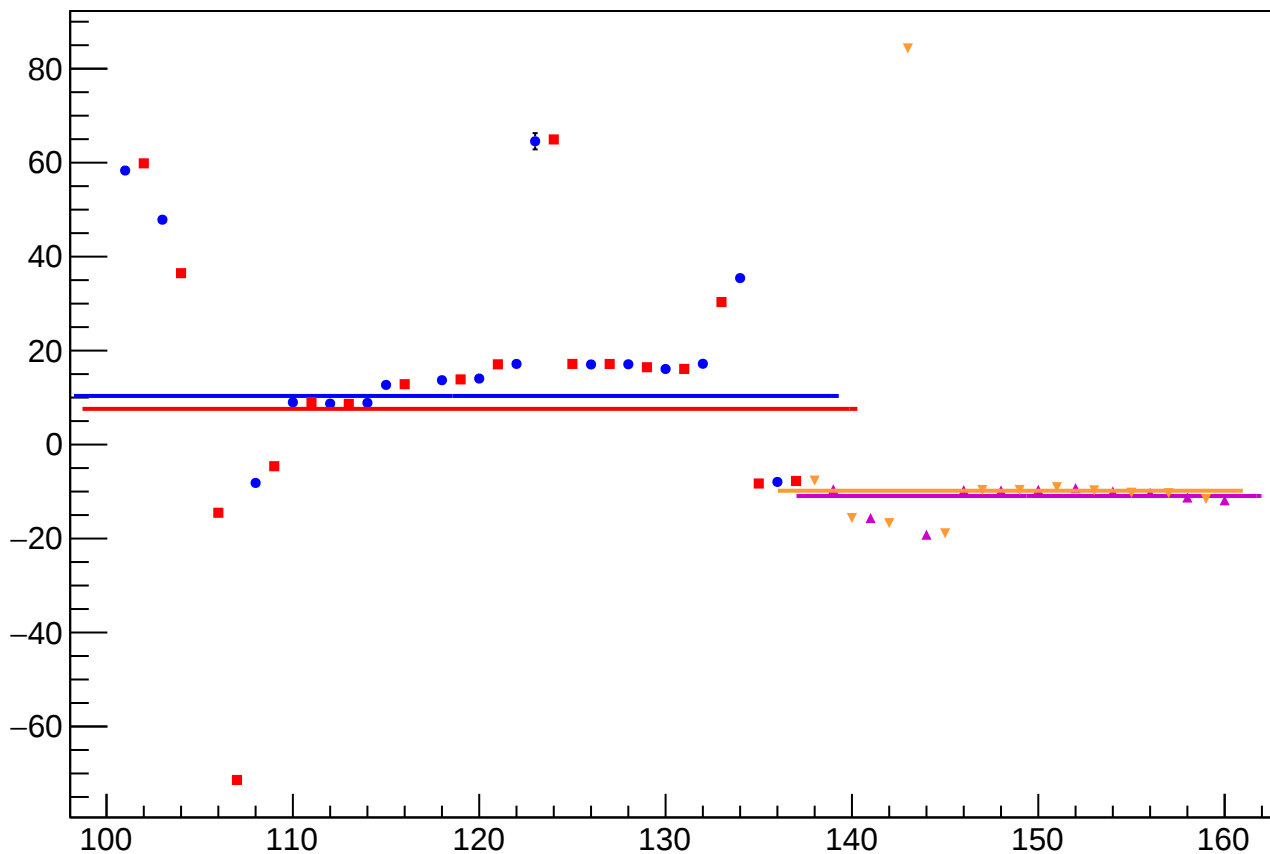
Right:  $-12.719 \pm 0.378$   $\chi^2/\text{NDF}$ : 1506.3/34

In:  $0.035 \pm 0.301$   $\chi^2/\text{NDF}$ : 1646.2/27

Out:  $-0.130 \pm 0.307$   $\chi^2/\text{NDF}$ : 1791.7/29

All:  $-0.046 \pm 0.215$   $\chi^2/\text{NDF}$ : 3438.1/57

reg\_asym\_atl\_avg\_atr\_avg\_dd\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 10.350+/-0.031  $\chi^2/\text{NDF}$ : 380878.9/16

Left Out: -9.824+/-0.018  $\chi^2/\text{NDF}$ :408938.8/11

Right Out: 7.602+/-0.031  $\chi^2/\text{NDF}$ : 538460.3/17

Left In: -10.937+/-0.017  $\chi^2/\text{NDF}$ :21196.2/10

Left: -10.403+/-0.012  $\chi^2/\text{NDF}$ : 432232.4/22

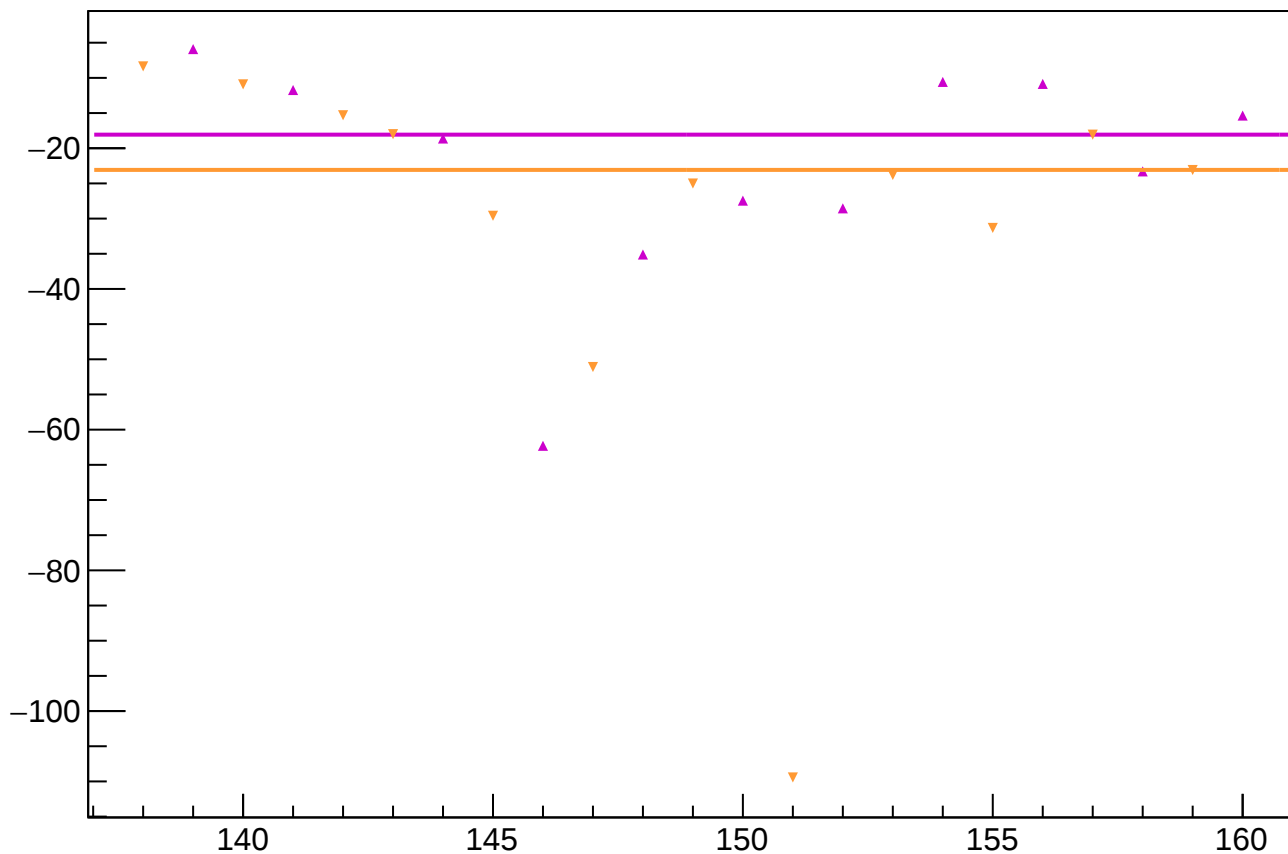
Right: 9.008+/-0.022  $\chi^2/\text{NDF}$ : 923283.8/34

In: -5.985+/-0.015  $\chi^2/\text{NDF}$ :773926.3/27

Out: -5.665+/-0.015  $\chi^2/\text{NDF}$ :1183496.6/29

All: -5.831+/-0.011  $\chi^2/\text{NDF}$ : 1957649.8/57

reg\_asym\_bcm\_an\_ds3\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -23.079±/0.076  $\chi^2/\text{NDF}$ :50345.2/11  
 Right Out: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -18.069±/0.063  $\chi^2/\text{NDF}$ :36787.7/10

Left: -20.142±/0.049  $\chi^2/\text{NDF}$ : 89710.8/22

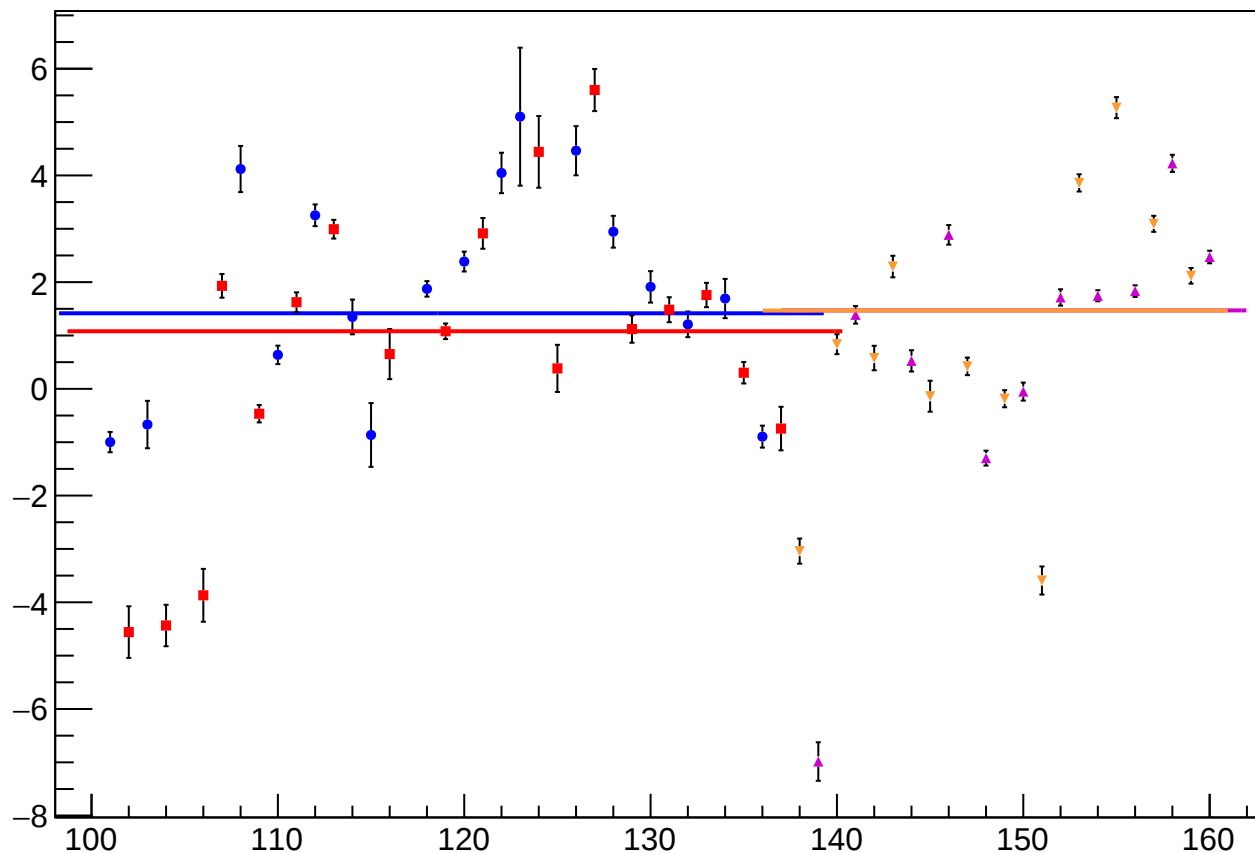
Right: 0.000±/0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.069±/0.063  $\chi^2/\text{NDF}$ :36787.7/10

Out: -23.079±/0.076  $\chi^2/\text{NDF}$ :50345.2/11

All: -20.142±/0.049  $\chi^2/\text{NDF}$ : 89710.8/22

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.416 \pm 0.061$   $\chi^2/\text{NDF}$ : 631.2/16

Left Out:  $1.467 \pm 0.054$   $\chi^2/\text{NDF}$ : 1681.8/11

Right Out:  $1.080 \pm 0.058$   $\chi^2/\text{NDF}$ : 916.1/17

Left In:  $1.470 \pm 0.044$   $\chi^2/\text{NDF}$ : 1491.7/10

Left:  $1.469 \pm 0.034$   $\chi^2/\text{NDF}$ : 3173.5/22

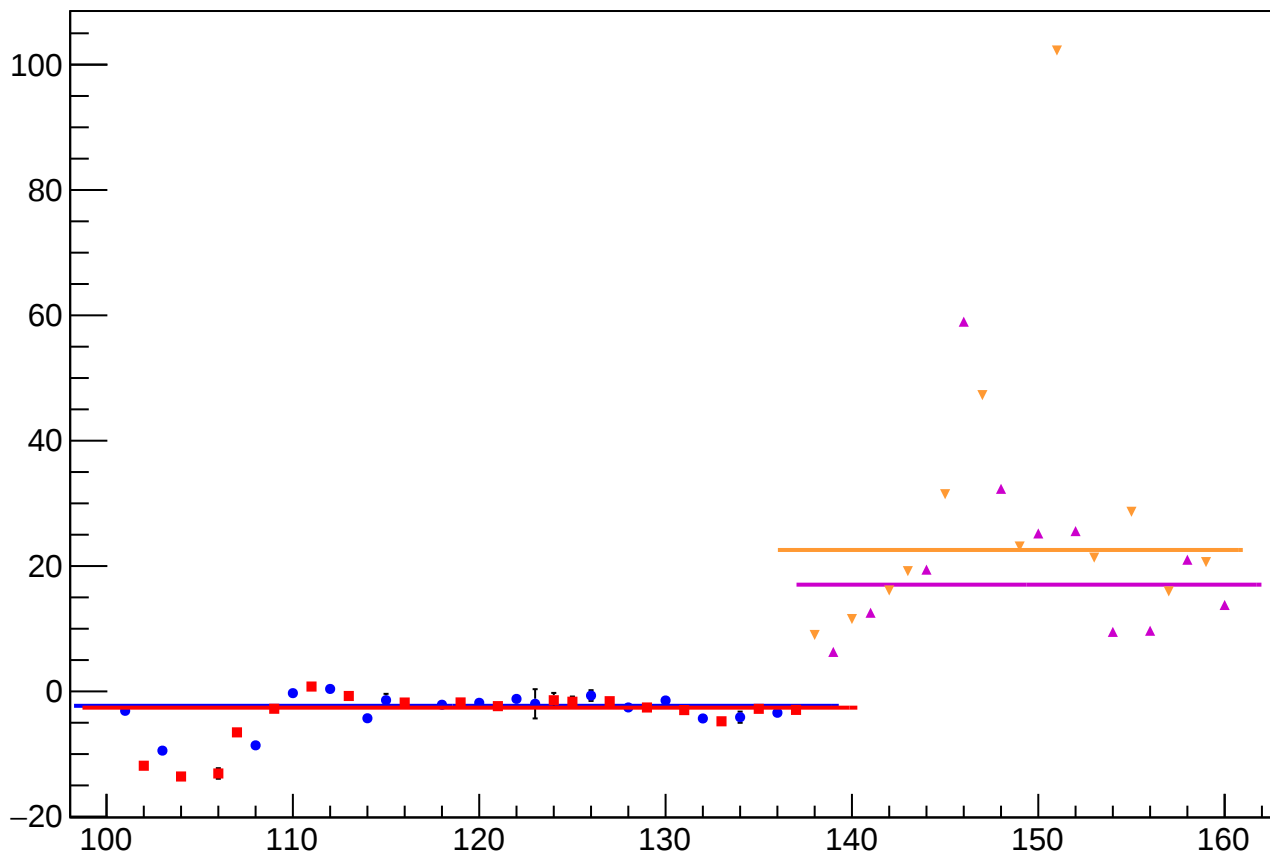
Right:  $1.239 \pm 0.042$   $\chi^2/\text{NDF}$ : 1563.2/34

In:  $1.452 \pm 0.036$   $\chi^2/\text{NDF}$ : 2123.4/27

Out:  $1.289 \pm 0.039$   $\chi^2/\text{NDF}$ : 2621.9/29

All:  $1.378 \pm 0.026$   $\chi^2/\text{NDF}$ : 4754.7/57

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.299 \pm 0.111$   $\chi^2/\text{NDF}: 440.0/16$

Left Out:  $22.565 \pm 0.074$   $\chi^2/\text{NDF}: 45561.1/11$

Right Out:  $-2.594 \pm 0.099$   $\chi^2/\text{NDF}: 889.6/17$

Left In:  $17.029 \pm 0.061$   $\chi^2/\text{NDF}: 34730.1/10$

Left:  $19.259 \pm 0.047$   $\chi^2/\text{NDF}: 83626.5/22$

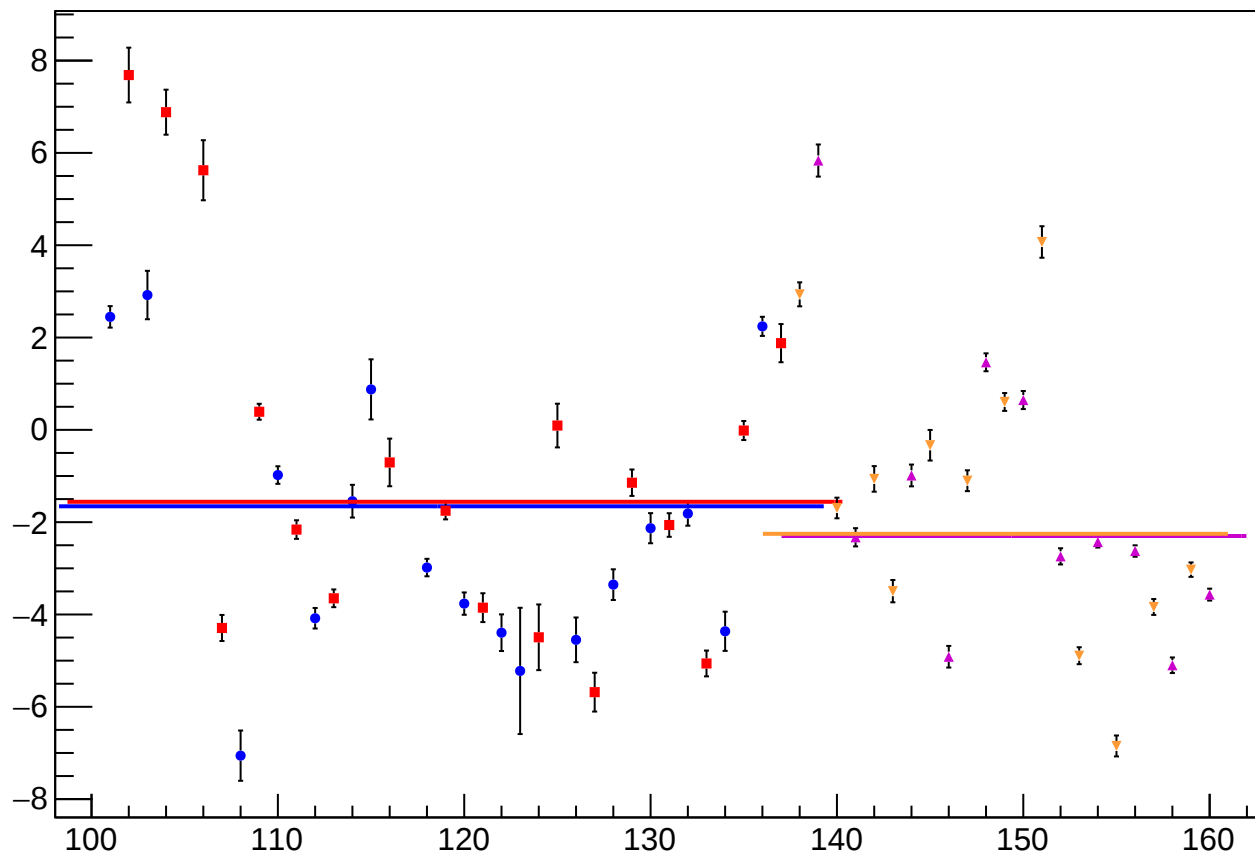
Right:  $-2.463 \pm 0.074$   $\chi^2/\text{NDF}: 1333.6/34$

In:  $12.554 \pm 0.053$   $\chi^2/\text{NDF}: 58540.0/27$

Out:  $13.568 \pm 0.059$   $\chi^2/\text{NDF}: 87711.5/29$

All:  $13.007 \pm 0.040$   $\chi^2/\text{NDF}: 146412.7/57$

reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.656 \pm 0.070$   $\chi^2/\text{NDF}$ : 1271.1/16

Left Out:  $-2.252 \pm 0.063$   $\chi^2/\text{NDF}$ : 1796.7/11

Right Out:  $-1.558 \pm 0.066$   $\chi^2/\text{NDF}$ : 1484.7/17

Left In:  $-2.300 \pm 0.051$   $\chi^2/\text{NDF}$ : 1691.9/10

Left:  $-2.281 \pm 0.040$   $\chi^2/\text{NDF}$ : 3488.9/22

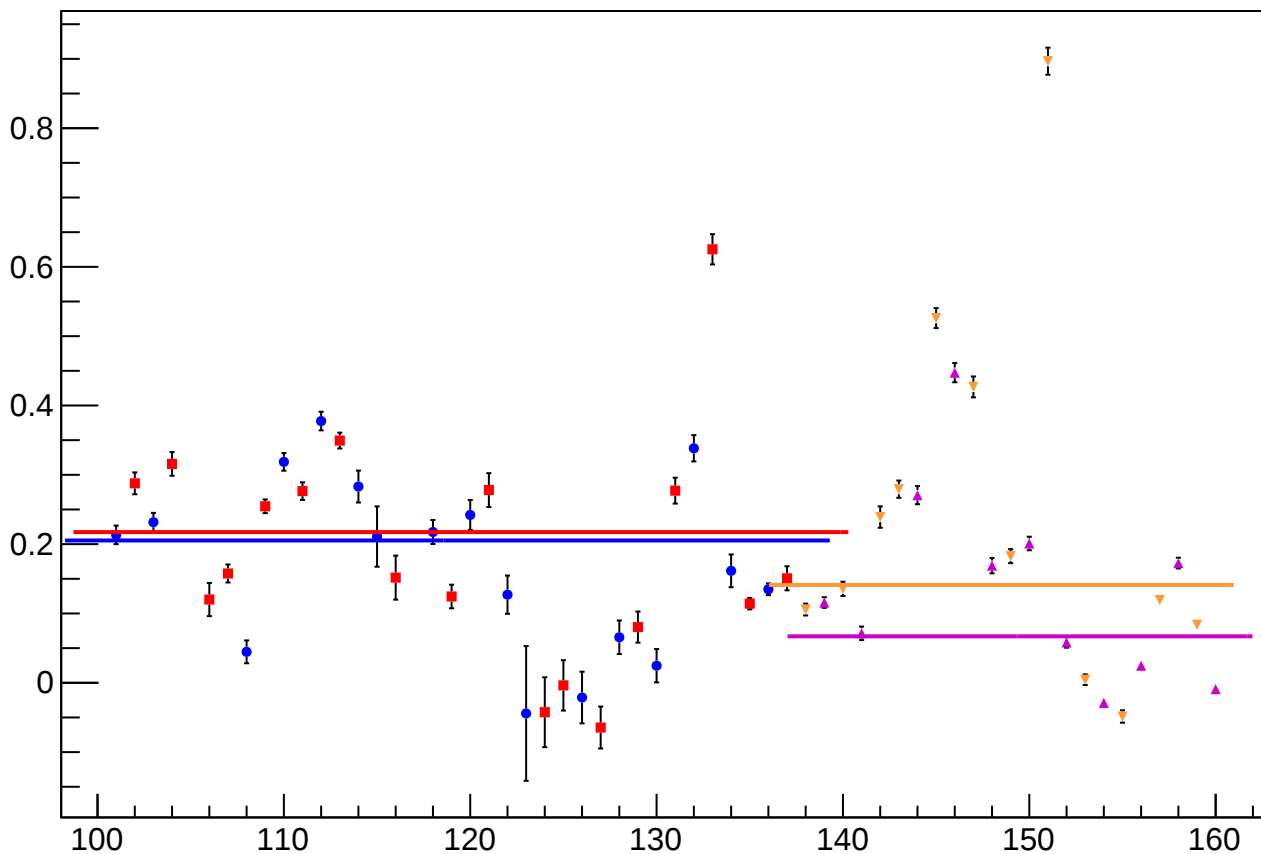
Right:  $-1.604 \pm 0.048$   $\chi^2/\text{NDF}$ : 2756.9/34

In:  $-2.079 \pm 0.041$   $\chi^2/\text{NDF}$ : 3017.8/27

Out:  $-1.921 \pm 0.045$   $\chi^2/\text{NDF}$ : 3339.6/29

All:  $-2.007 \pm 0.031$   $\chi^2/\text{NDF}$ : 6364.1/57

reg\_asym\_bcm\_an\_ds3\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.205 \pm 0.004$   $\chi^2/\text{NDF}$ : 620.5/16

Left Out:  $0.141 \pm 0.003$   $\chi^2/\text{NDF}$ : 3600.7/11

Right Out:  $0.217 \pm 0.004$   $\chi^2/\text{NDF}$ : 1019.4/17

Left In:  $0.067 \pm 0.002$   $\chi^2/\text{NDF}$ : 2119.0/10

Left:  $0.095 \pm 0.002$   $\chi^2/\text{NDF}$ : 6149.8/22

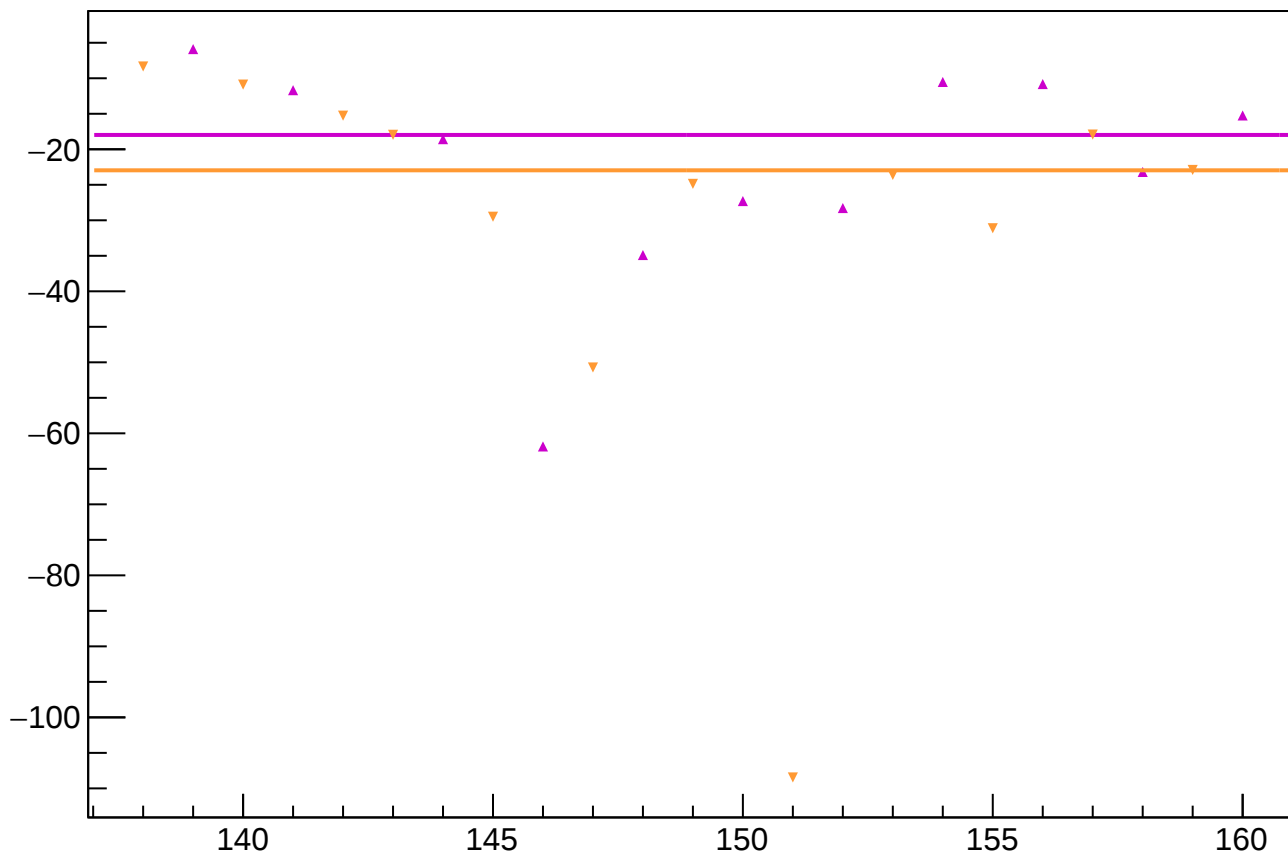
Right:  $0.212 \pm 0.003$   $\chi^2/\text{NDF}$ : 1644.6/34

In:  $0.098 \pm 0.002$   $\chi^2/\text{NDF}$ : 3607.4/27

Out:  $0.169 \pm 0.002$   $\chi^2/\text{NDF}$ : 4888.7/29

All:  $0.128 \pm 0.001$   $\chi^2/\text{NDF}$ : 9069.1/57

reg\_asym\_bcm\_an\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -22.962+/-0.075  $\chi^2/\text{NDF}$ :50235.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -17.982+/-0.063  $\chi^2/\text{NDF}$ :36723.4/10

Left: -20.043+/-0.048  $\chi^2/\text{NDF}$ : 89537.4/22

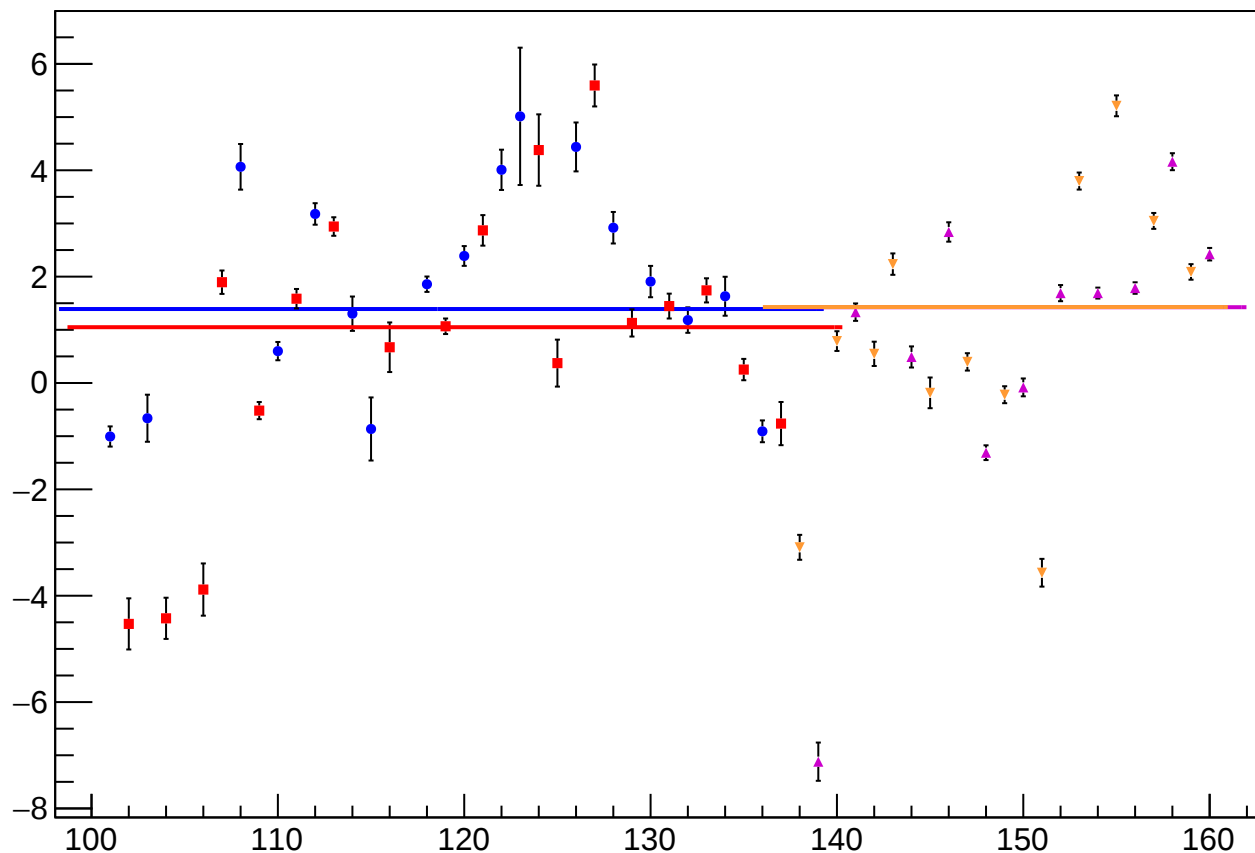
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -17.982+/-0.063  $\chi^2/\text{NDF}$ :36723.4/10

Out: -22.962+/-0.075  $\chi^2/\text{NDF}$ :50235.2/11

All: -20.043+/-0.048  $\chi^2/\text{NDF}$ : 89537.4/22

reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.391 \pm 0.061$   $\chi^2/\text{NDF}$ : 629.2/16

Left Out:  $1.428 \pm 0.053$   $\chi^2/\text{NDF}$ : 1687.4/11

Right Out:  $1.049 \pm 0.058$   $\chi^2/\text{NDF}$ : 919.8/17

Left In:  $1.425 \pm 0.044$   $\chi^2/\text{NDF}$ : 1503.9/10

Left:  $1.426 \pm 0.034$   $\chi^2/\text{NDF}$ : 3191.2/22

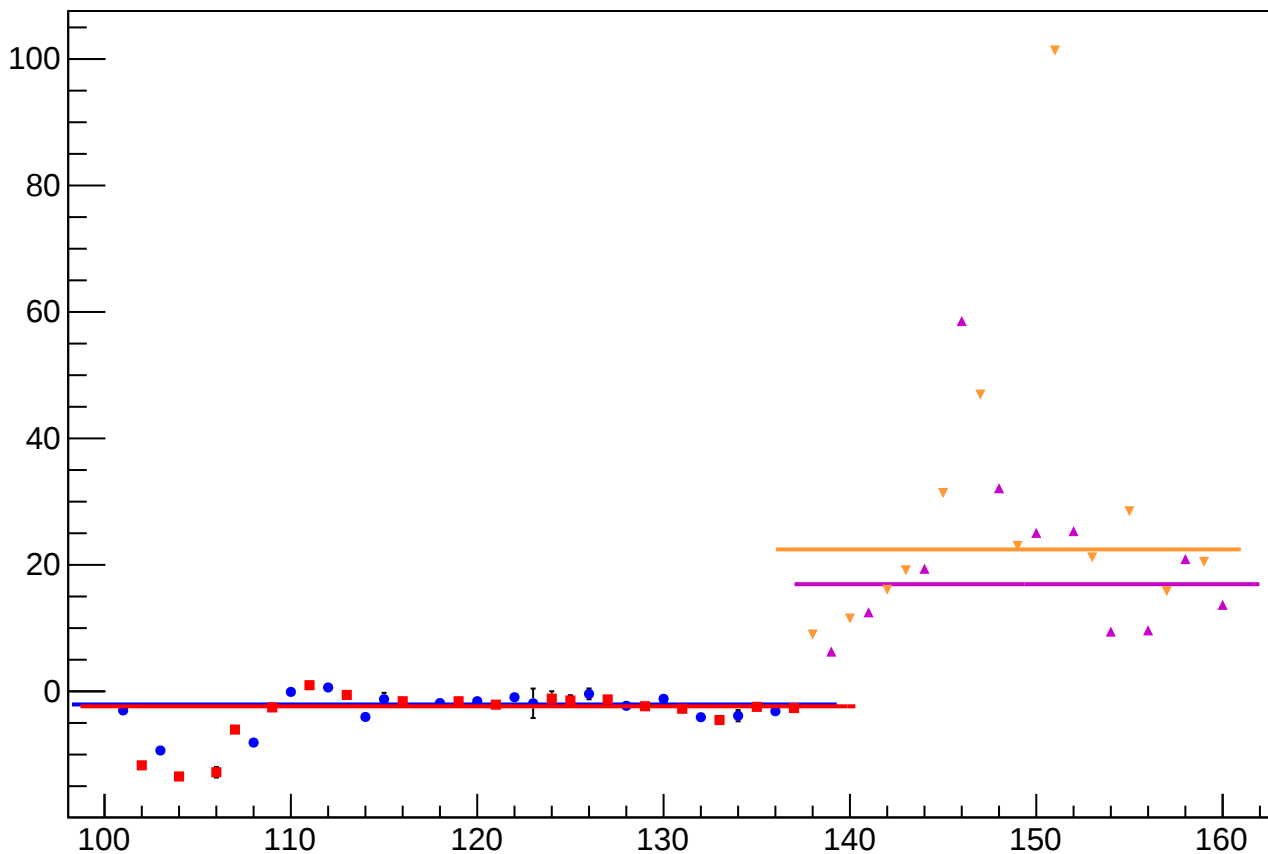
Right:  $1.211 \pm 0.042$   $\chi^2/\text{NDF}$ : 1565.5/34

In:  $1.413 \pm 0.036$   $\chi^2/\text{NDF}$ : 2133.3/27

Out:  $1.254 \pm 0.039$   $\chi^2/\text{NDF}$ : 2630.3/29

All:  $1.342 \pm 0.026$   $\chi^2/\text{NDF}$ : 4772.7/57

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.075 \pm 0.110$   $\chi^2/\text{NDF}$ : 442.3/16

Left Out:  $22.444 \pm 0.074$   $\chi^2/\text{NDF}$ : 45483.1/11

Right Out:  $-2.366 \pm 0.099$   $\chi^2/\text{NDF}$ : 893.2/17

Left In:  $16.945 \pm 0.060$   $\chi^2/\text{NDF}$ : 34679.0/10

Left:  $19.161 \pm 0.047$   $\chi^2/\text{NDF}$ : 83494.2/22

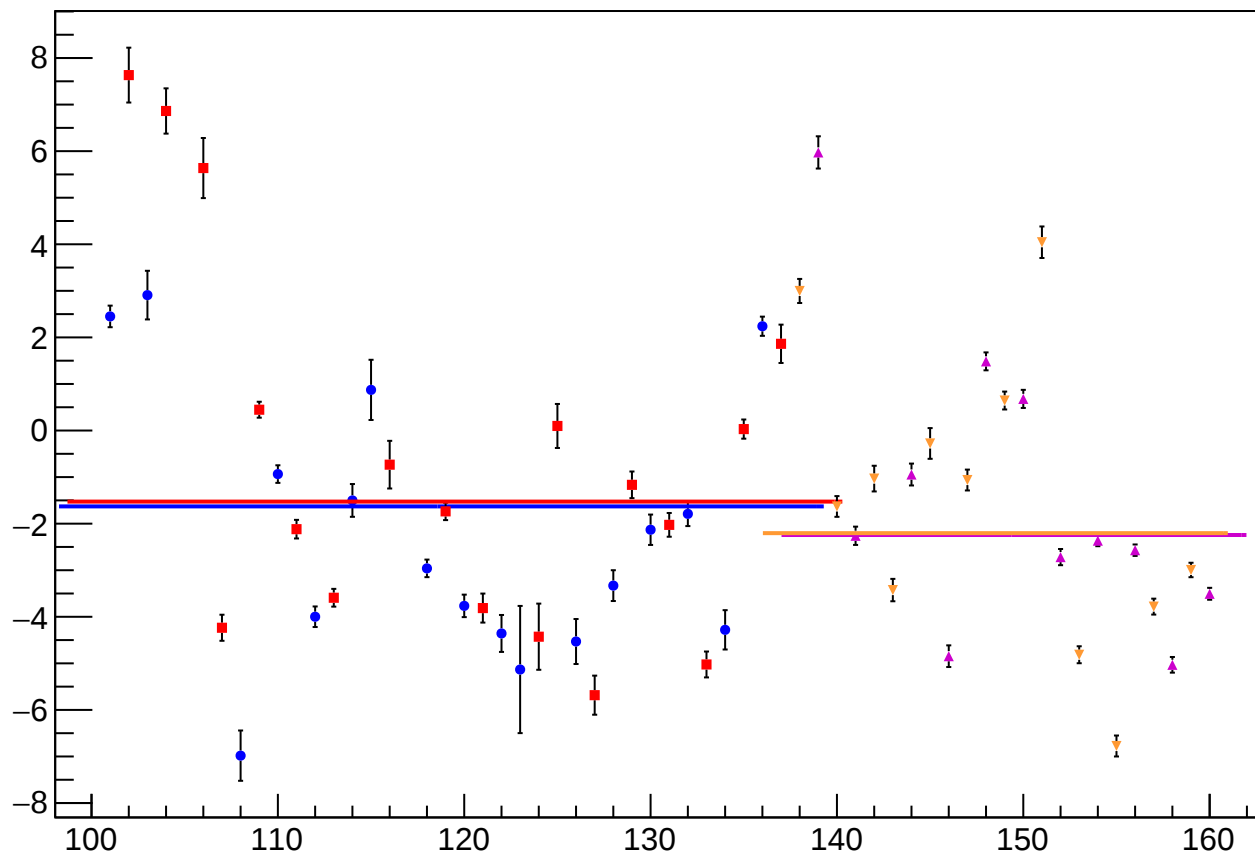
Right:  $-2.237 \pm 0.074$   $\chi^2/\text{NDF}$ : 1339.4/34

In:  $12.549 \pm 0.053$   $\chi^2/\text{NDF}$ : 57990.7/27

Out:  $13.583 \pm 0.059$   $\chi^2/\text{NDF}$ : 86959.8/29

All:  $13.011 \pm 0.039$   $\chi^2/\text{NDF}$ : 145120.4/57

reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.629 \pm 0.070$   $\chi^2/\text{NDF}$ : 1266.4/16

Left Out:  $-2.204 \pm 0.062$   $\chi^2/\text{NDF}$ : 1803.9/11

Right Out:  $-1.526 \pm 0.065$   $\chi^2/\text{NDF}$ : 1488.2/17

Left In:  $-2.244 \pm 0.051$   $\chi^2/\text{NDF}$ : 1707.7/10

Left:  $-2.228 \pm 0.039$   $\chi^2/\text{NDF}$ : 3511.9/22

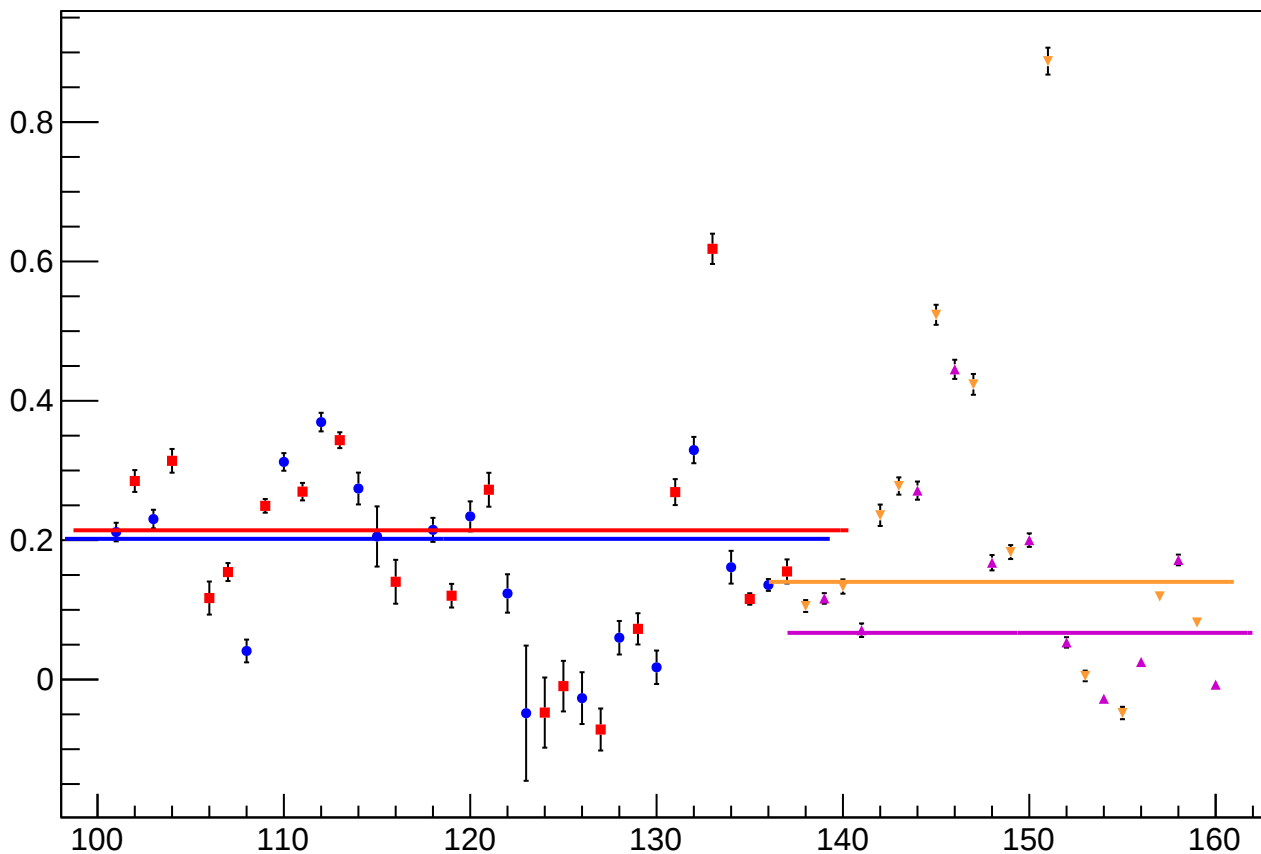
Right:  $-1.574 \pm 0.048$   $\chi^2/\text{NDF}$ : 2755.7/34

In:  $-2.033 \pm 0.041$   $\chi^2/\text{NDF}$ : 3024.6/27

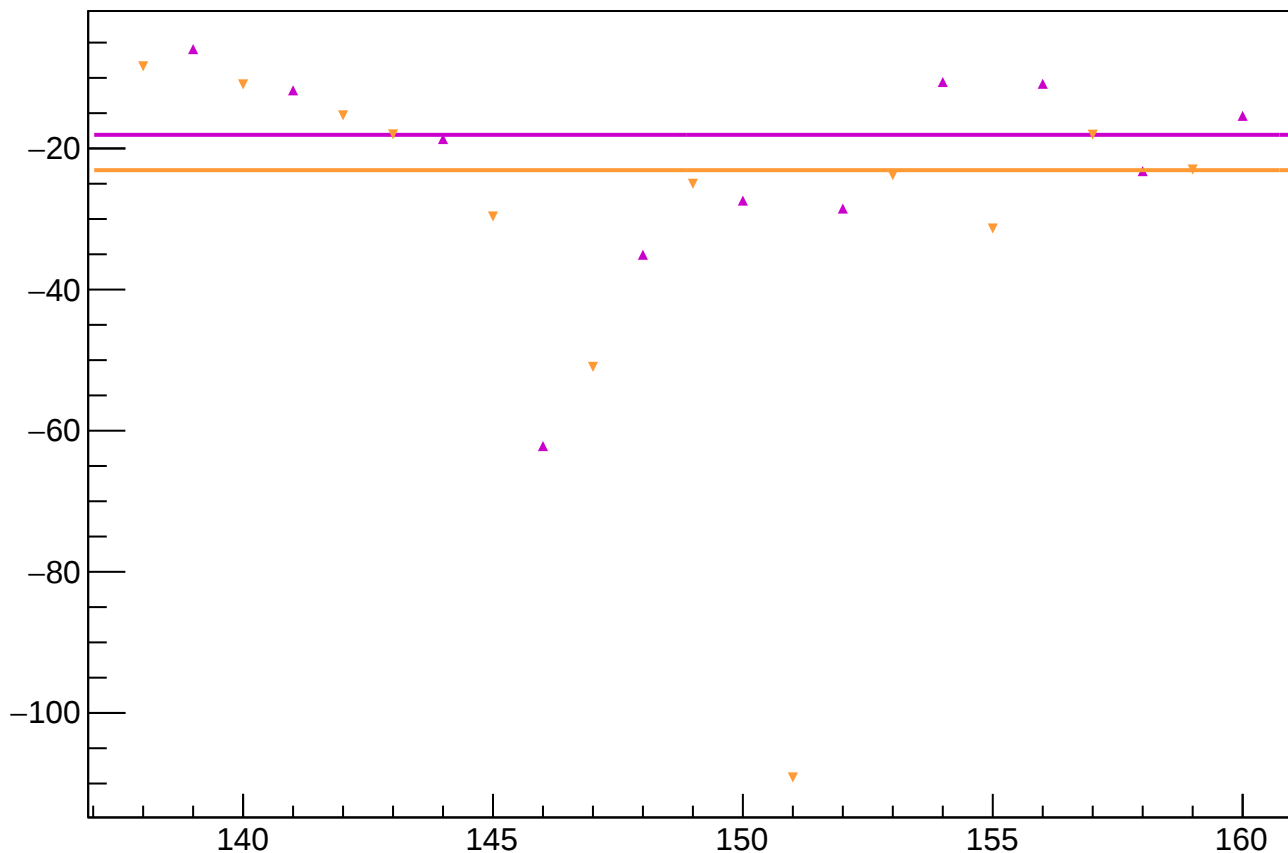
Out:  $-1.880 \pm 0.045$   $\chi^2/\text{NDF}$ : 3348.2/29

All:  $-1.964 \pm 0.030$   $\chi^2/\text{NDF}$ : 6379.0/57

reg\_asym\_bcm\_an\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



reg\_asym\_bcm\_an\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -23.079+/-0.075  $\chi^2/\text{NDF}$ :50347.3/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -18.072+/-0.063  $\chi^2/\text{NDF}$ :36790.9/10

Left: -20.142+/-0.049  $\chi^2/\text{NDF}$ : 89723.1/22

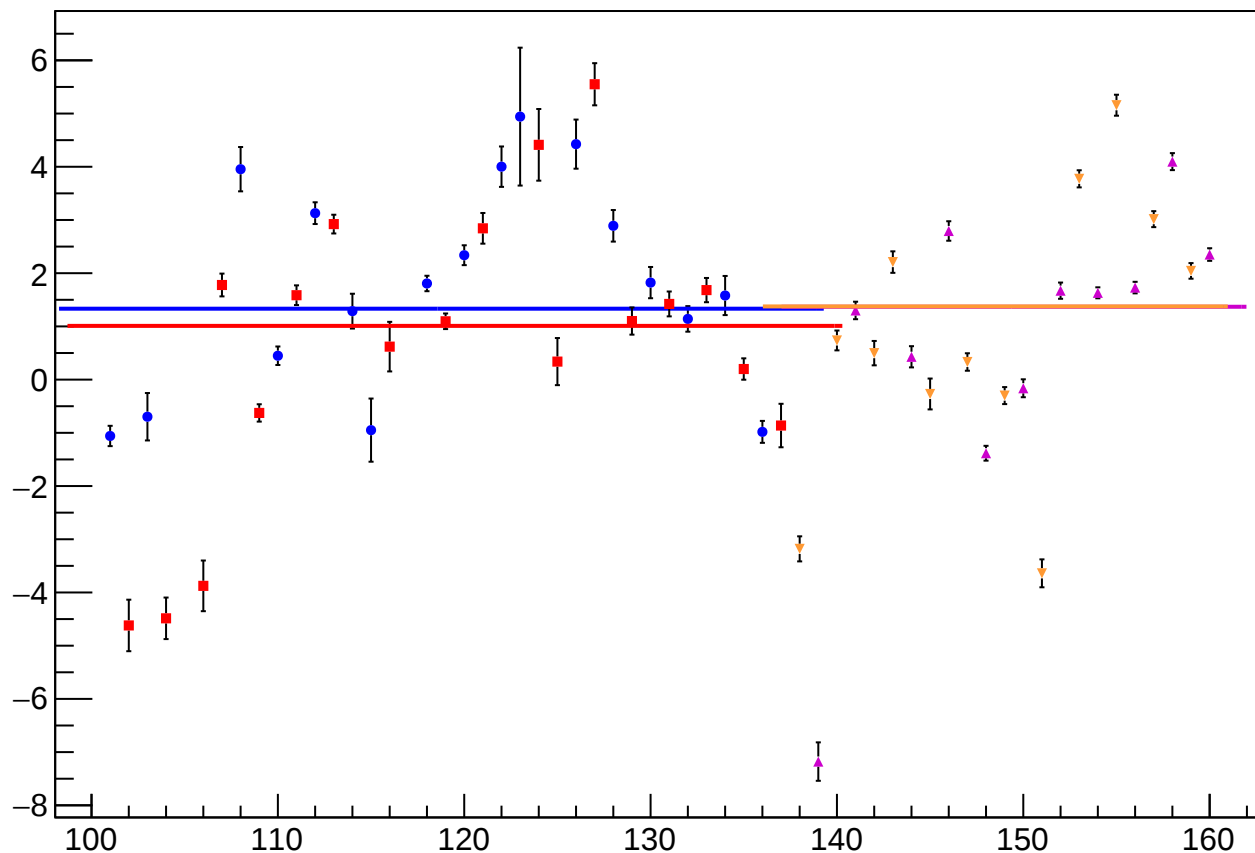
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.072+/-0.063  $\chi^2/\text{NDF}$ :36790.9/10

Out: -23.079+/-0.075  $\chi^2/\text{NDF}$ :50347.3/11

All: -20.142+/-0.049  $\chi^2/\text{NDF}$ : 89723.1/22

reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.333 \pm 0.061$   $\chi^2/\text{NDF}$ : 634.6/16

Left Out:  $1.375 \pm 0.054$   $\chi^2/\text{NDF}$ : 1695.2/11

Right Out:  $1.010 \pm 0.058$   $\chi^2/\text{NDF}$ : 930.3/17

Left In:  $1.369 \pm 0.044$   $\chi^2/\text{NDF}$ : 1497.8/10

Left:  $1.372 \pm 0.034$   $\chi^2/\text{NDF}$ : 3192.9/22

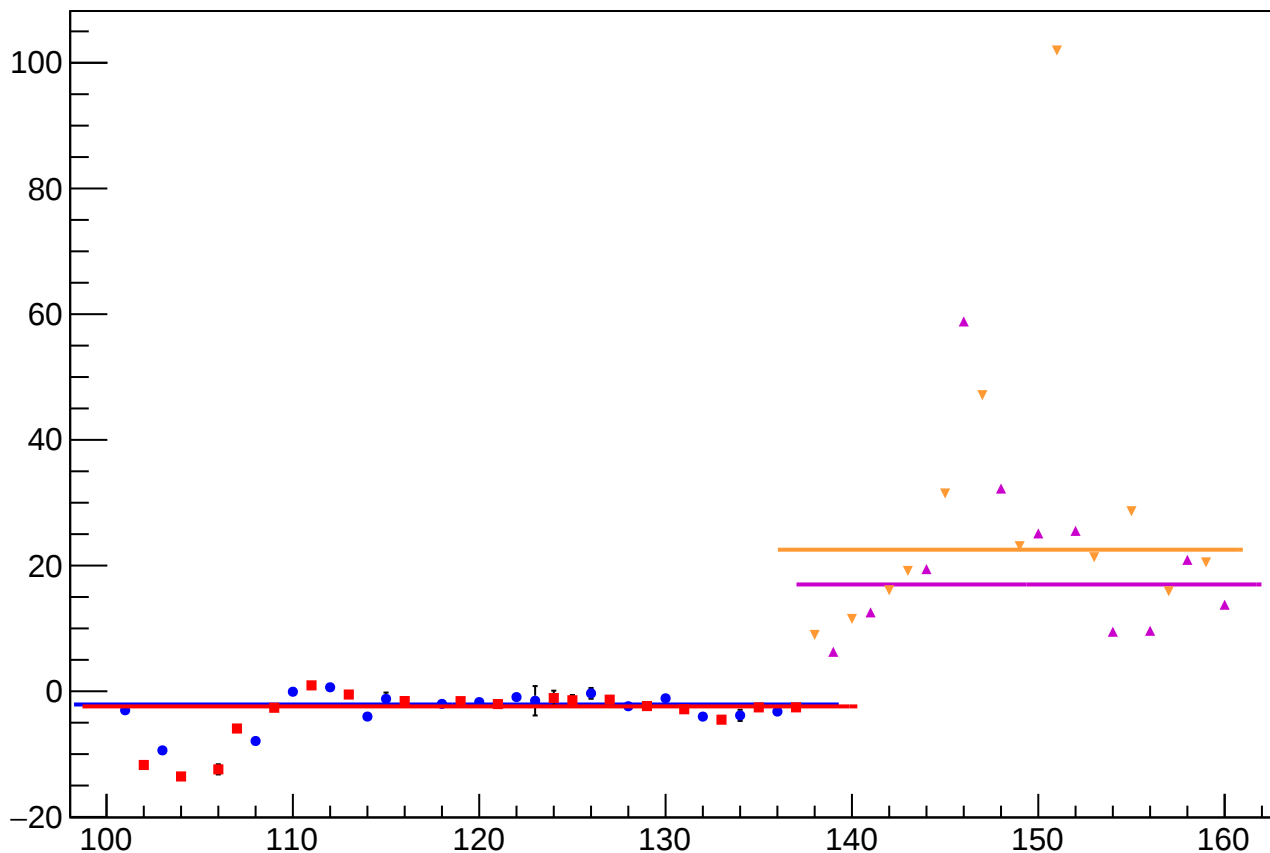
Right:  $1.163 \pm 0.042$   $\chi^2/\text{NDF}$ : 1579.5/34

In:  $1.357 \pm 0.036$   $\chi^2/\text{NDF}$ : 2132.6/27

Out:  $1.207 \pm 0.039$   $\chi^2/\text{NDF}$ : 2646.8/29

All:  $1.289 \pm 0.026$   $\chi^2/\text{NDF}$ : 4787.3/57

reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.104 \pm 0.111$   $\chi^2/\text{NDF}$ : 440.3/16

Left Out:  $22.526 \pm 0.074$   $\chi^2/\text{NDF}$ : 45579.0/11

Right Out:  $-2.410 \pm 0.099$   $\chi^2/\text{NDF}$ : 886.9/17

Left In:  $16.994 \pm 0.061$   $\chi^2/\text{NDF}$ : 34753.4/10

Left:  $19.222 \pm 0.047$   $\chi^2/\text{NDF}$ : 83677.3/22

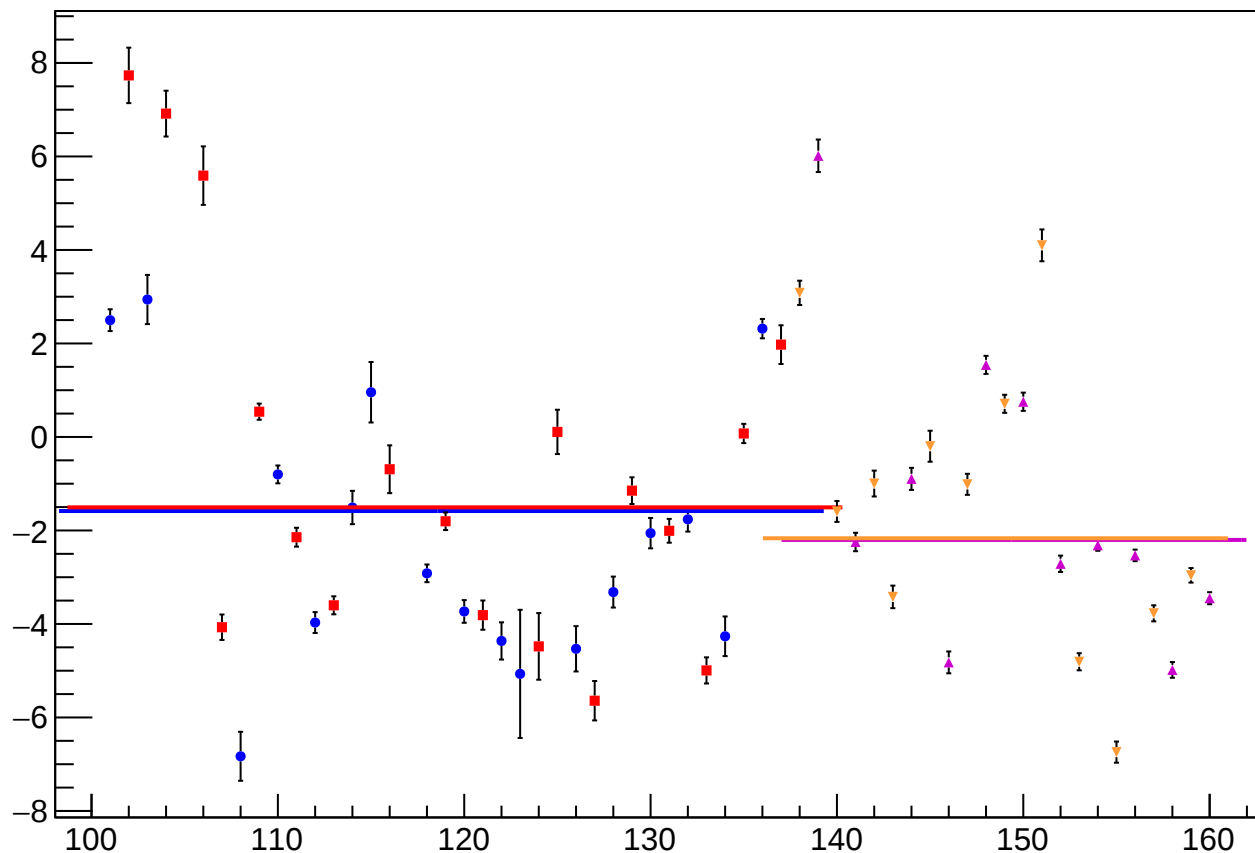
Right:  $-2.274 \pm 0.074$   $\chi^2/\text{NDF}$ : 1331.4/34

In:  $12.590 \pm 0.053$   $\chi^2/\text{NDF}$ : 58020.6/27

Out:  $13.626 \pm 0.059$   $\chi^2/\text{NDF}$ : 87074.3/29

All:  $13.052 \pm 0.040$   $\chi^2/\text{NDF}$ : 145263.8/57

reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.584 \pm 0.070$   $\chi^2/\text{NDF}$ : 1272.1/16

Left Out:  $-2.167 \pm 0.063$   $\chi^2/\text{NDF}$ : 1812.5/11

Right Out:  $-1.506 \pm 0.066$   $\chi^2/\text{NDF}$ : 1499.8/17

Left In:  $-2.202 \pm 0.051$   $\chi^2/\text{NDF}$ : 1702.0/10

Left:  $-2.188 \pm 0.039$   $\chi^2/\text{NDF}$ : 3514.7/22

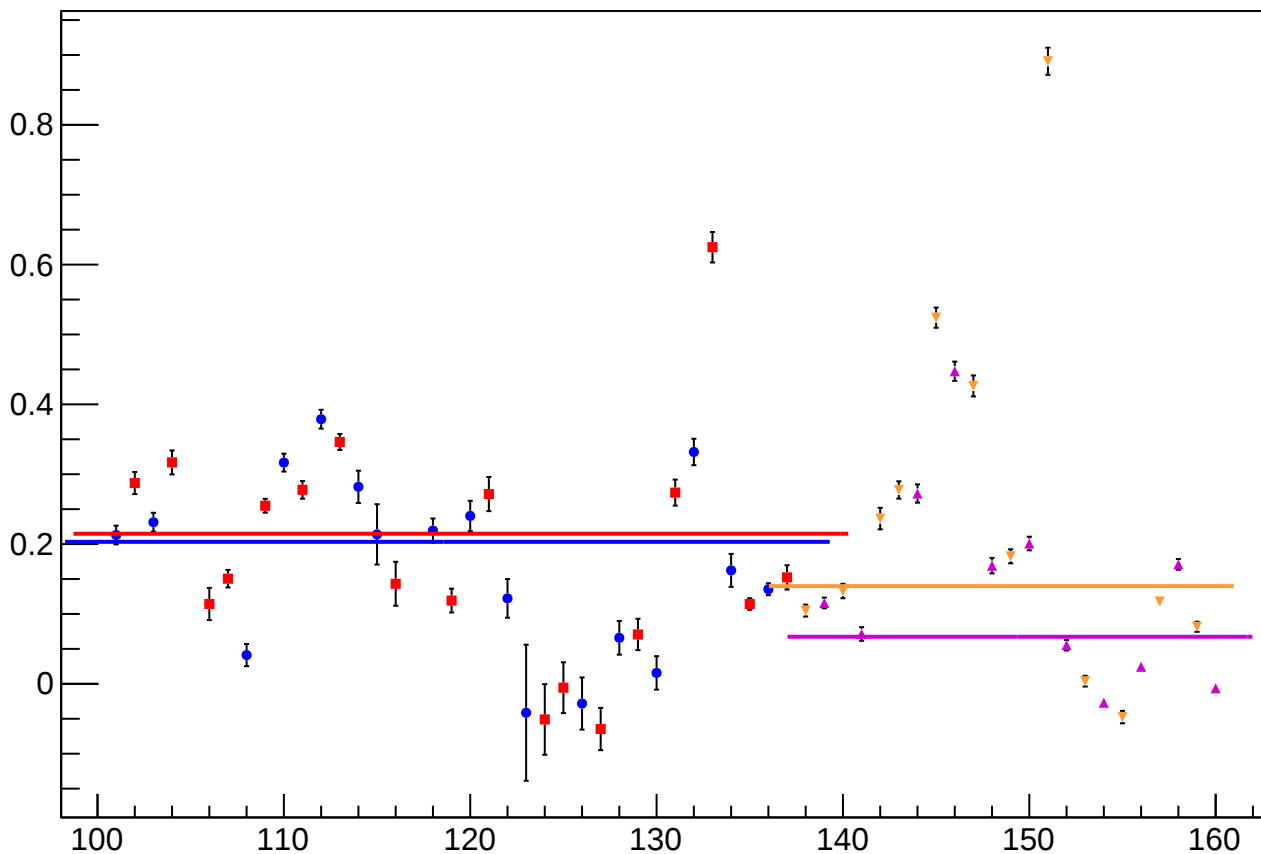
Right:  $-1.542 \pm 0.048$   $\chi^2/\text{NDF}$ : 2772.7/34

In:  $-1.991 \pm 0.041$   $\chi^2/\text{NDF}$ : 3024.8/27

Out:  $-1.851 \pm 0.045$   $\chi^2/\text{NDF}$ : 3365.4/29

All:  $-1.928 \pm 0.030$   $\chi^2/\text{NDF}$ : 6395.5/57

reg\_asym\_bcm\_an\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In:  $0.203 \pm 0.004$   $\chi^2/\text{NDF}$ : 632.8/16

Left Out:  $0.140 \pm 0.003$   $\chi^2/\text{NDF}$ : 3588.1/11

Right Out:  $0.215 \pm 0.004$   $\chi^2/\text{NDF}$ : 1033.0/17

Left In:  $0.067 \pm 0.002$   $\chi^2/\text{NDF}$ : 2103.3/10

Left:  $0.095 \pm 0.002$   $\chi^2/\text{NDF}$ : 6104.1/22

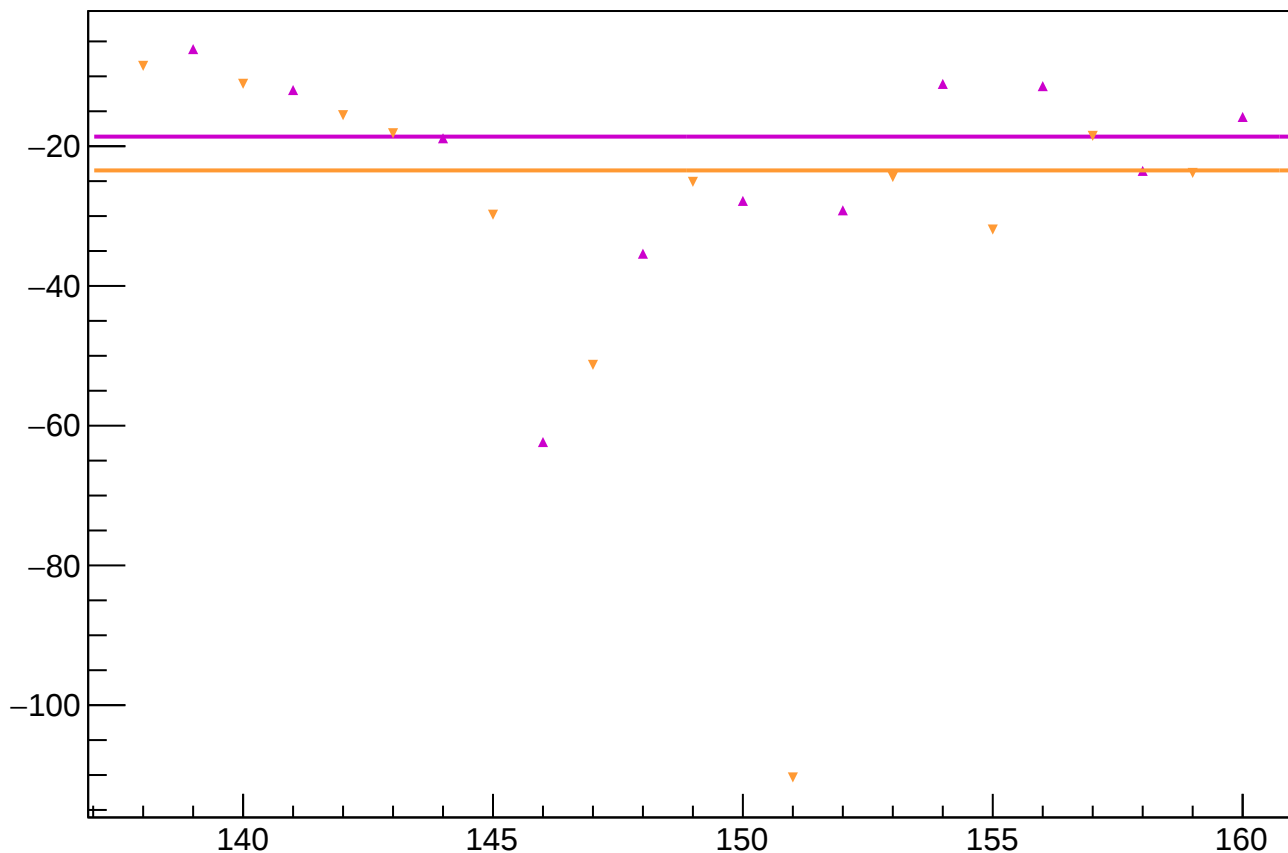
Right:  $0.210 \pm 0.003$   $\chi^2/\text{NDF}$ : 1670.1/34

In:  $0.098 \pm 0.002$   $\chi^2/\text{NDF}$ : 3576.8/27

Out:  $0.167 \pm 0.002$   $\chi^2/\text{NDF}$ : 4882.5/29

All:  $0.128 \pm 0.001$   $\chi^2/\text{NDF}$ : 9011.2/57

reg\_asym\_bcm\_dg\_ds\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.466±/-0.077  $\chi^2/\text{NDF}$ :50203.3/11

Right Out: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -18.628±/-0.065  $\chi^2/\text{NDF}$ :35753.4/10

Left: -20.649±/-0.050  $\chi^2/\text{NDF}$ : 88278.0/22

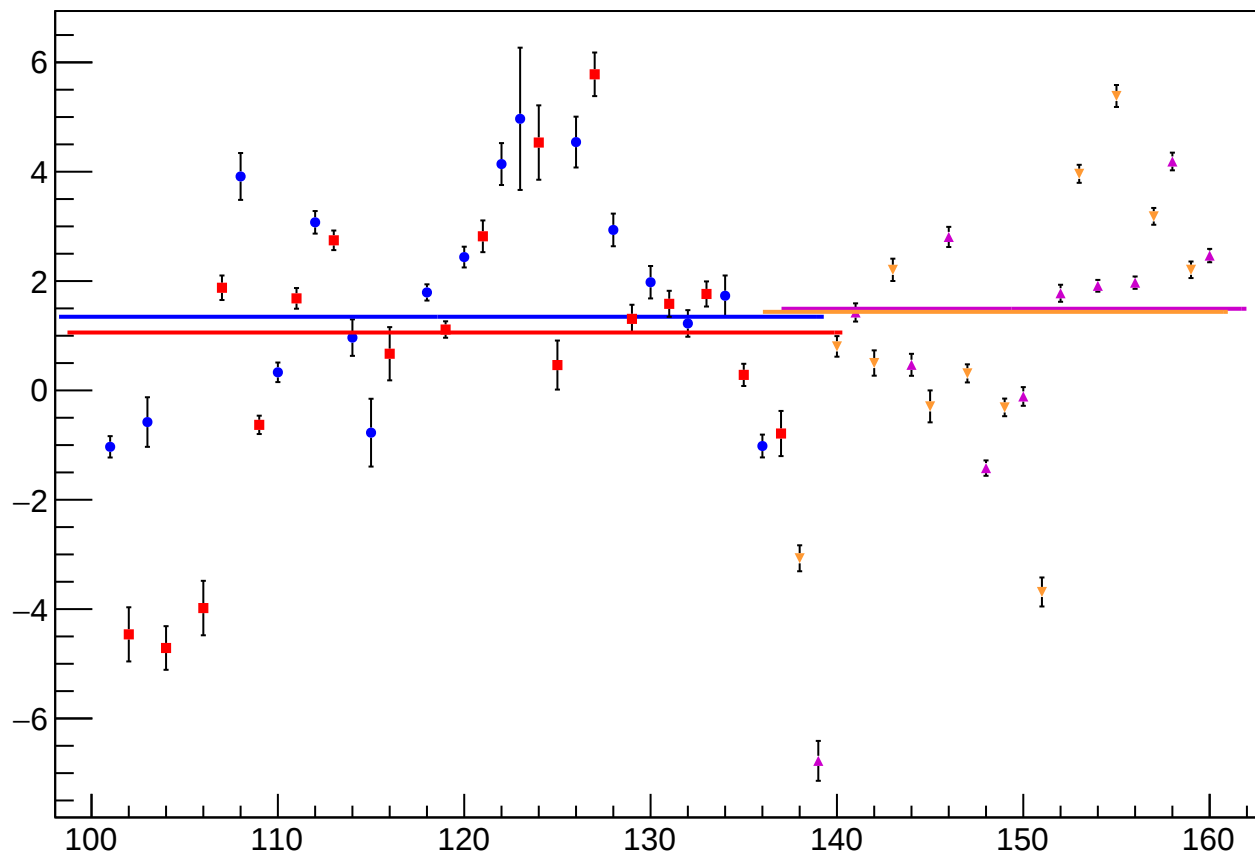
Right: 0.000±/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.628±/-0.065  $\chi^2/\text{NDF}$ :35753.4/10

Out: -23.466±/-0.077  $\chi^2/\text{NDF}$ :50203.3/11

All: -20.649±/-0.050  $\chi^2/\text{NDF}$ : 88278.0/22

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.347 \pm 0.062$   $\chi^2/\text{NDF}$ : 630.1/16

Left Out:  $1.437 \pm 0.054$   $\chi^2/\text{NDF}$ : 1749.6/11

Right Out:  $1.059 \pm 0.059$   $\chi^2/\text{NDF}$ : 905.3/17

Left In:  $1.493 \pm 0.045$   $\chi^2/\text{NDF}$ : 1484.1/10

Left:  $1.471 \pm 0.035$   $\chi^2/\text{NDF}$ : 3234.3/22

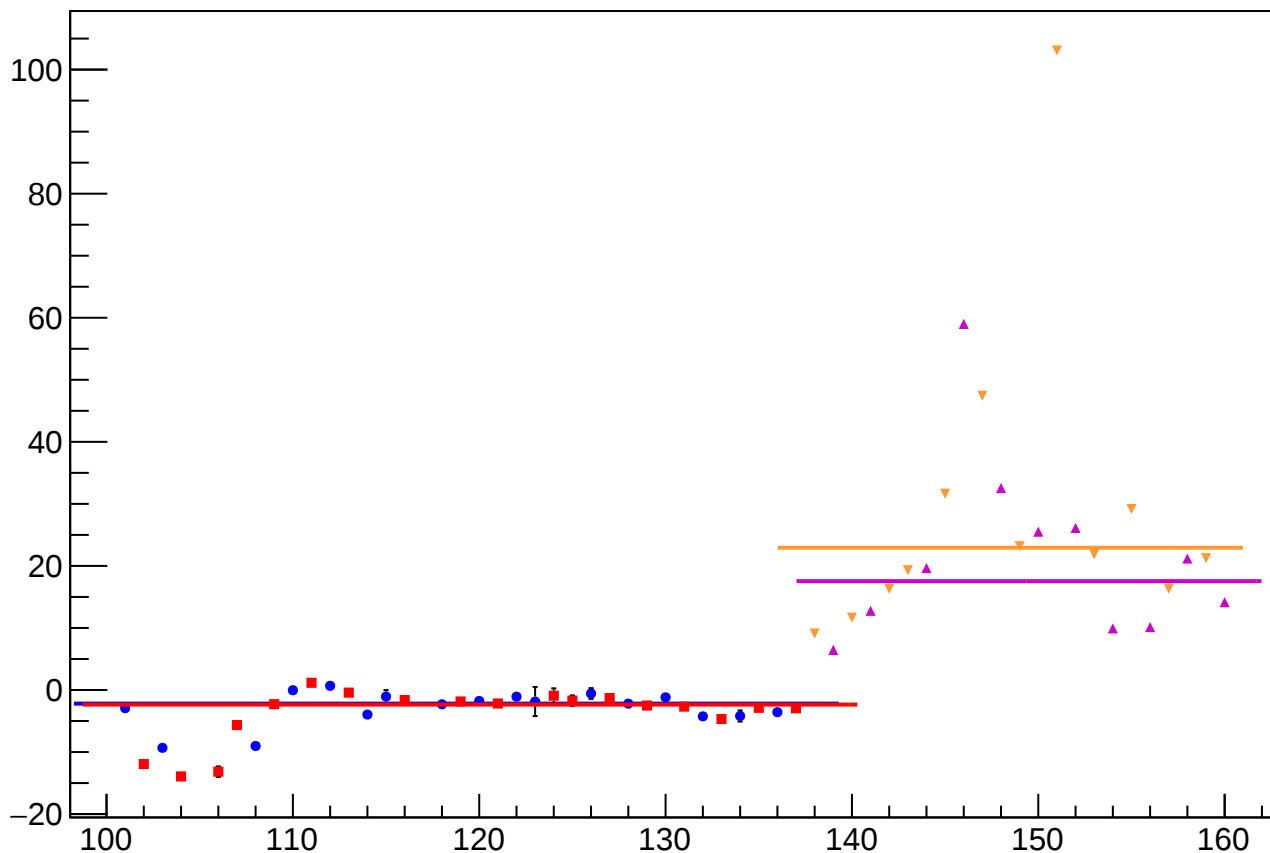
Right:  $1.196 \pm 0.043$   $\chi^2/\text{NDF}$ : 1546.6/34

In:  $1.443 \pm 0.036$   $\chi^2/\text{NDF}$ : 2117.9/27

Out:  $1.264 \pm 0.040$   $\chi^2/\text{NDF}$ : 2676.9/29

All:  $1.362 \pm 0.027$   $\chi^2/\text{NDF}$ : 4805.7/57

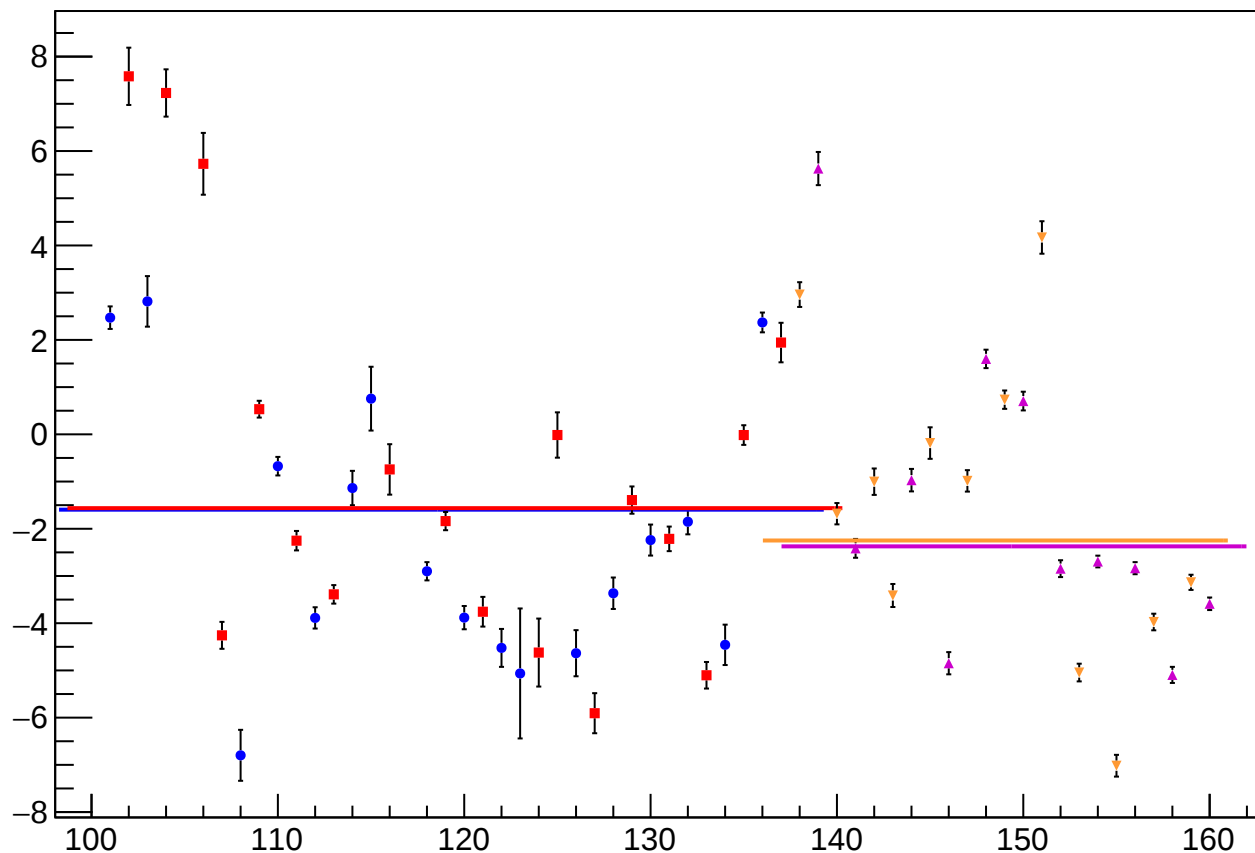
reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.194 \pm 0.113$   $\chi^2/\text{NDF}: 463.5/16$   
 Left Out:  $22.935 \pm 0.075$   $\chi^2/\text{NDF}: 45316.4/11$   
 Right Out:  $-2.350 \pm 0.101$   $\chi^2/\text{NDF}: 908.5/17$   
 Left In:  $17.550 \pm 0.062$   $\chi^2/\text{NDF}: 33629.5/10$

Left:  $19.741 \pm 0.048$   $\chi^2/\text{NDF}: 81989.6/22$   
 Right:  $-2.280 \pm 0.075$   $\chi^2/\text{NDF}: 1373.0/34$   
 In:  $12.945 \pm 0.055$   $\chi^2/\text{NDF}: 57563.4/27$   
 Out:  $13.961 \pm 0.060$   $\chi^2/\text{NDF}: 86384.5/29$   
 All:  $13.401 \pm 0.040$   $\chi^2/\text{NDF}: 144104.2/57$

reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.595 \pm 0.072$   $\chi^2/\text{NDF}$ : 1255.4/16

Left Out:  $-2.248 \pm 0.064$   $\chi^2/\text{NDF}$ : 1873.5/11

Right Out:  $-1.564 \pm 0.067$   $\chi^2/\text{NDF}$ : 1461.9/17

Left In:  $-2.373 \pm 0.052$   $\chi^2/\text{NDF}$ : 1683.5/10

Left:  $-2.323 \pm 0.040$   $\chi^2/\text{NDF}$ : 3559.2/22

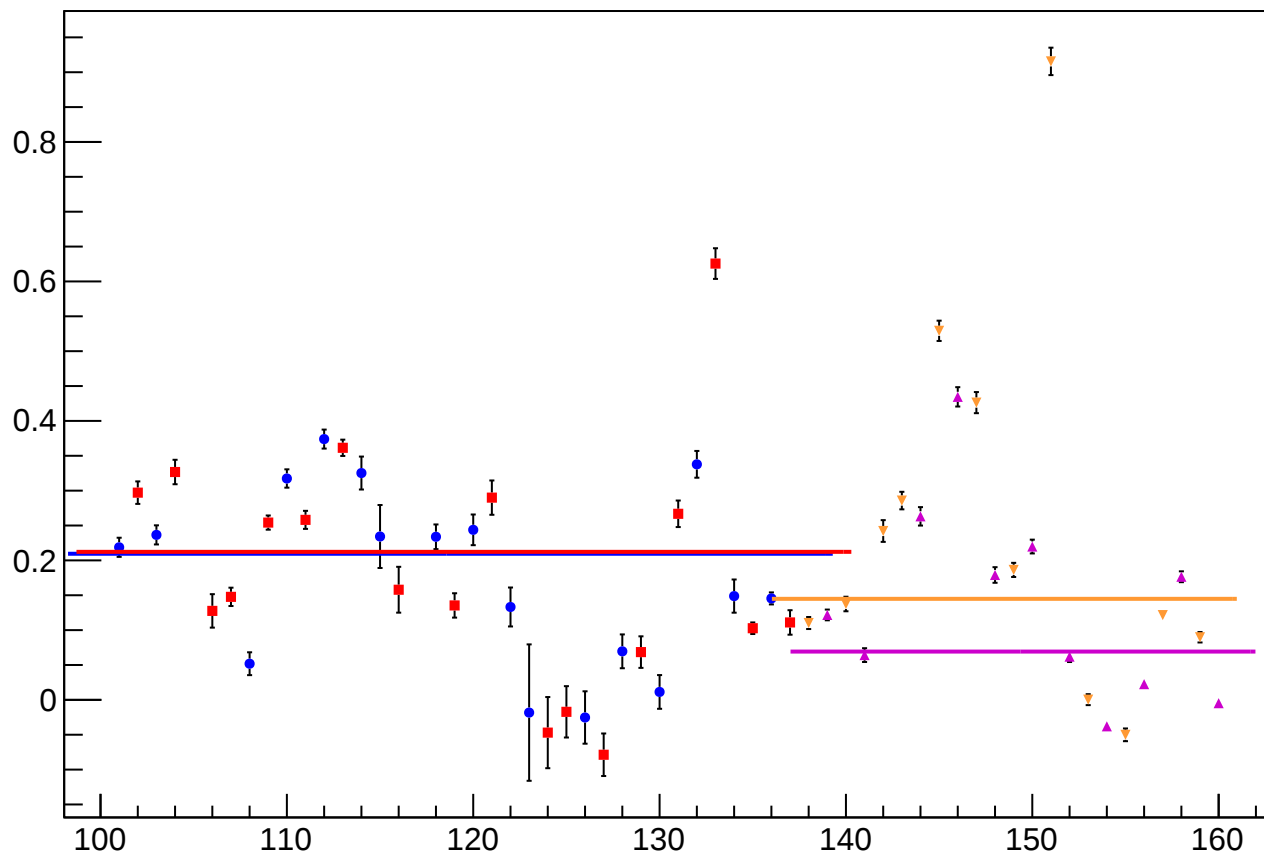
Right:  $-1.578 \pm 0.049$   $\chi^2/\text{NDF}$ : 2717.4/34

In:  $-2.104 \pm 0.042$   $\chi^2/\text{NDF}$ : 3015.8/27

Out:  $-1.922 \pm 0.046$   $\chi^2/\text{NDF}$ : 3390.1/29

All:  $-2.022 \pm 0.031$   $\chi^2/\text{NDF}$ : 6414.4/57

reg\_asym\_bcm\_dg\_ds\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.210 $\pm$ 0.004  $\chi^2$ /NDF: 597.7/16

Left Out: 0.145 $\pm$ 0.003  $\chi^2$ /NDF:3638.7/11

Right Out: 0.212 $\pm$ 0.004  $\chi^2$ /NDF: 1096.9/17

Left In: 0.069 $\pm$ 0.002  $\chi^2$ /NDF:2142.8/10

Left: 0.099 $\pm$ 0.002  $\chi^2$ /NDF: 6212.3/22

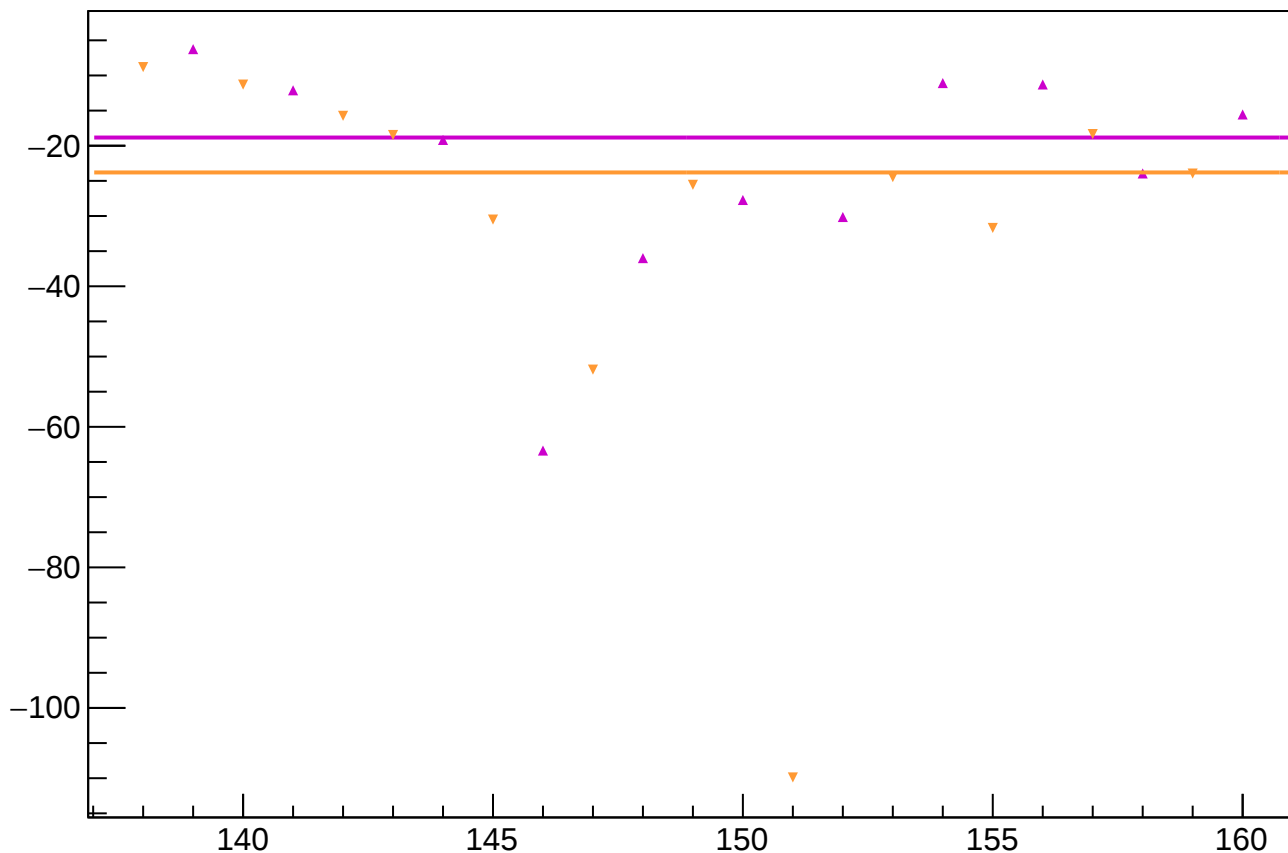
Right: 0.211 $\pm$ 0.003  $\chi^2$ /NDF: 1694.9/34

In: 0.101 $\pm$ 0.002  $\chi^2$ /NDF:3602.0/27

Out: 0.169 $\pm$ 0.002  $\chi^2$ /NDF:4938.5/29

All: 0.131 $\pm$ 0.002  $\chi^2$ /NDF: 9052.3/57

reg\_asym\_bcm\_dg\_us\_diff\_bpm1X\_slope vs Slug, Sign Corrected



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left Out: -23.801+/-0.078  $\chi^2/\text{NDF}$ :49496.2/11  
 Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Left In: -18.833+/-0.066  $\chi^2/\text{NDF}$ :36127.1/10

Left: -20.916+/-0.050  $\chi^2/\text{NDF}$ : 87998.7/22

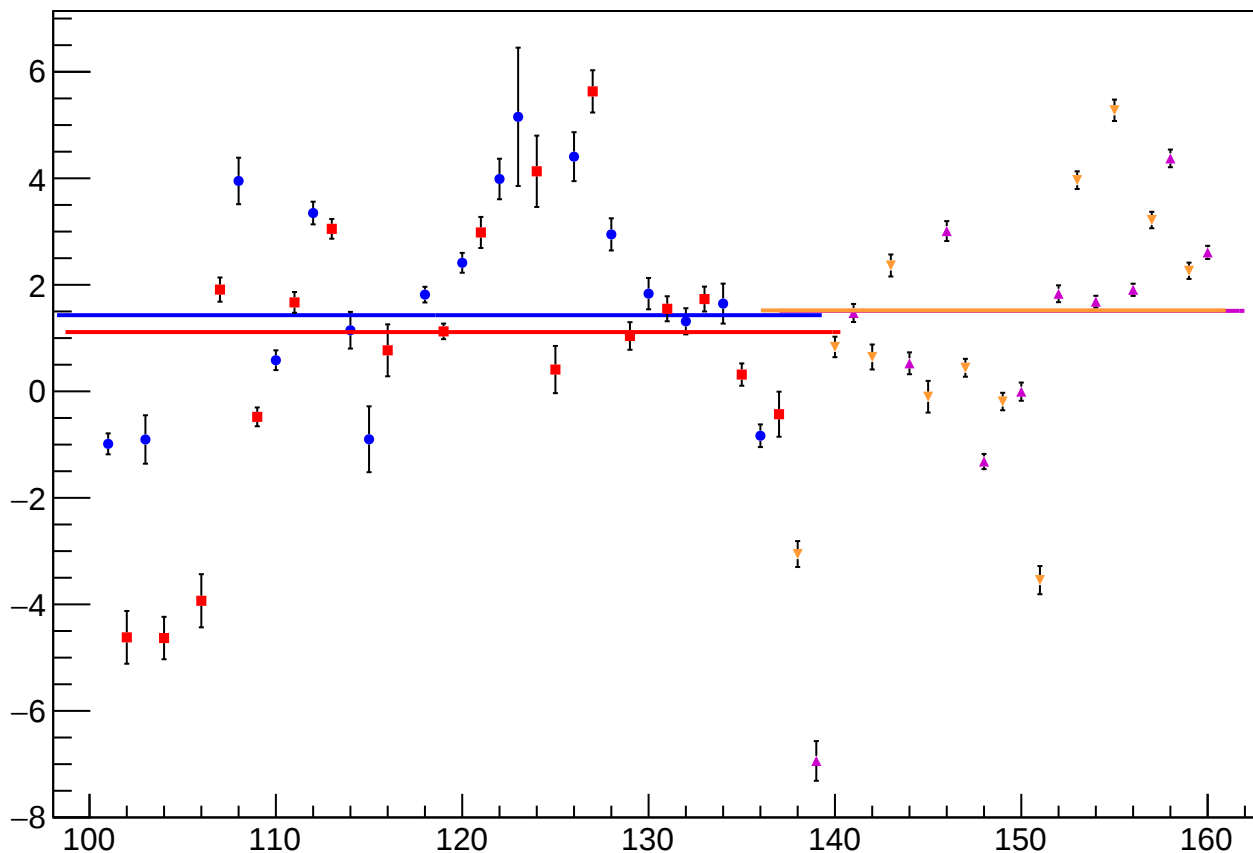
Right: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

In: -18.833+/-0.066  $\chi^2/\text{NDF}$ :36127.1/10

Out: -23.801+/-0.078  $\chi^2/\text{NDF}$ :49496.2/11

All: -20.916+/-0.050  $\chi^2/\text{NDF}$ : 87998.7/22

reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs Slug, Sign Corrected



Right In:  $1.430 \pm 0.063$   $\chi^2/\text{NDF}$ : 598.0/16

Left Out:  $1.519 \pm 0.055$   $\chi^2/\text{NDF}$ : 1653.2/11

Right Out:  $1.113 \pm 0.060$   $\chi^2/\text{NDF}$ : 887.6/17

Left In:  $1.511 \pm 0.046$   $\chi^2/\text{NDF}$ : 1465.6/10

Left:  $1.514 \pm 0.035$   $\chi^2/\text{NDF}$ : 3118.9/22

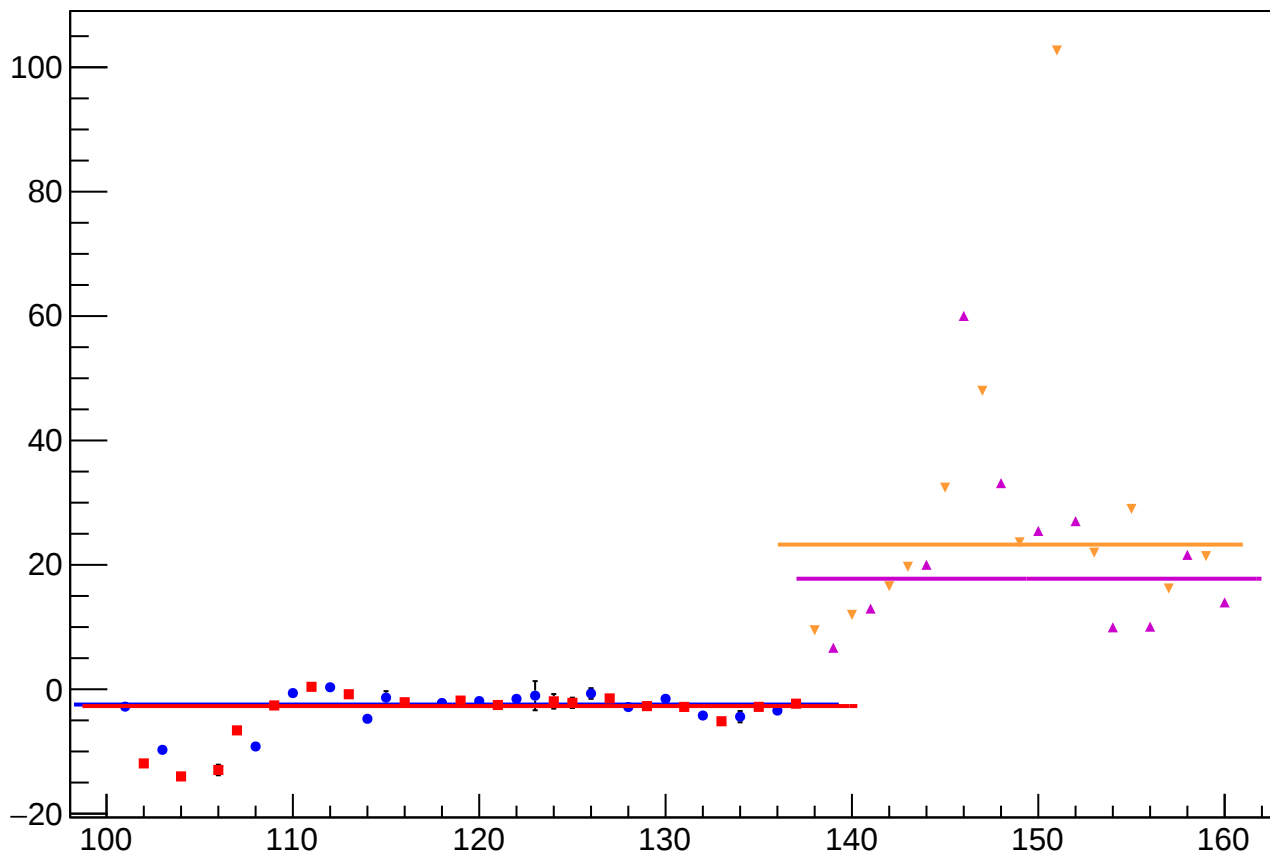
Right:  $1.264 \pm 0.043$   $\chi^2/\text{NDF}$ : 1499.0/34

In:  $1.483 \pm 0.037$   $\chi^2/\text{NDF}$ : 2064.8/27

Out:  $1.333 \pm 0.041$   $\chi^2/\text{NDF}$ : 2565.7/29

All:  $1.415 \pm 0.027$   $\chi^2/\text{NDF}$ : 4637.9/57

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs Slug, Sign Corrected



Right In:  $-2.456 \pm 0.115$   $\chi^2/\text{NDF}$ : 419.1/16

Left Out:  $23.261 \pm 0.076$   $\chi^2/\text{NDF}$ : 44800.8/11

Right Out:  $-2.700 \pm 0.104$   $\chi^2/\text{NDF}$ : 829.7/17

Left In:  $17.774 \pm 0.063$   $\chi^2/\text{NDF}$ : 34034.9/10

Left:  $20.018 \pm 0.049$   $\chi^2/\text{NDF}$ : 81908.0/22

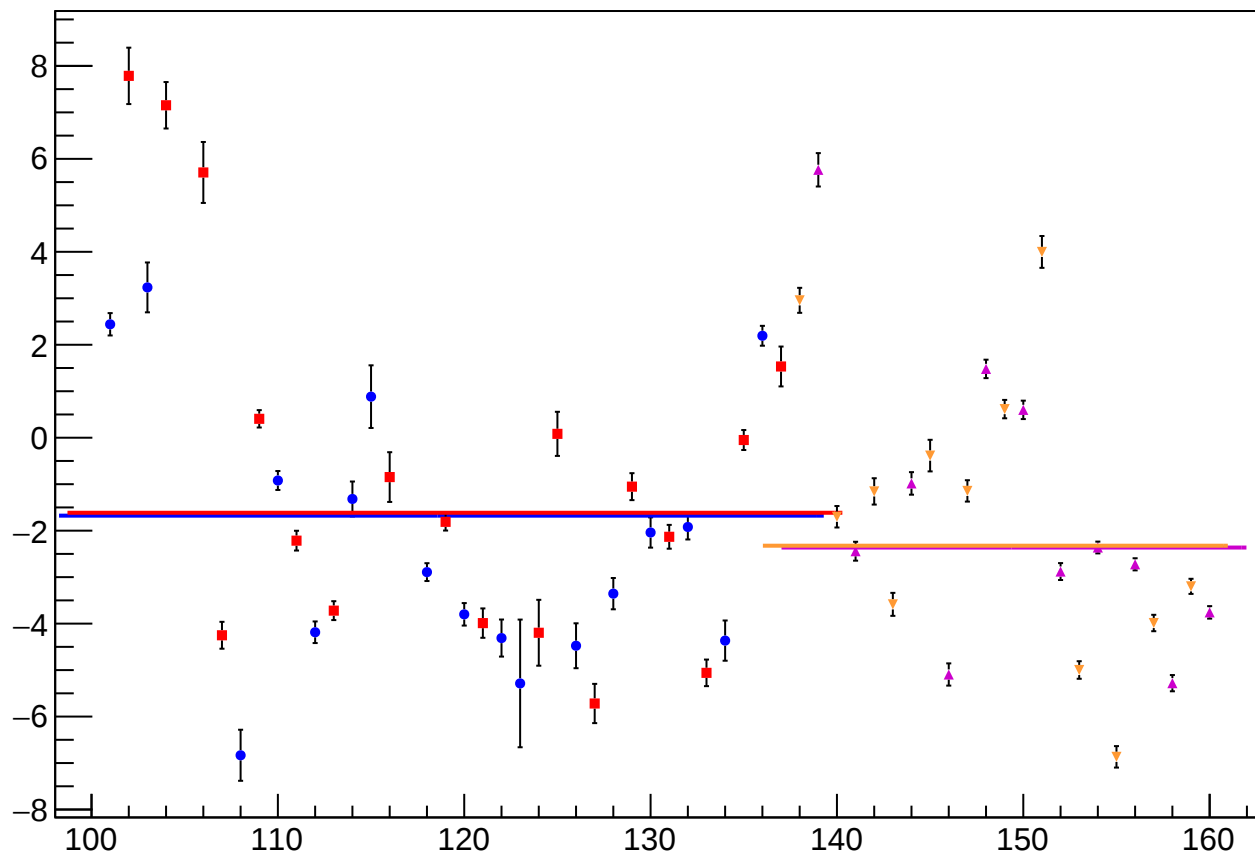
Right:  $-2.590 \pm 0.077$   $\chi^2/\text{NDF}$ : 1251.4/34

In:  $13.042 \pm 0.055$   $\chi^2/\text{NDF}$ : 58343.3/27

Out:  $14.156 \pm 0.061$   $\chi^2/\text{NDF}$ : 86431.2/29

All:  $13.543 \pm 0.041$   $\chi^2/\text{NDF}$ : 144956.2/57

reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs Slug, Sign Corrected



Right In:  $-1.677 \pm 0.072$   $\chi^2/\text{NDF}$ : 1204.7/16

Left Out:  $-2.324 \pm 0.065$   $\chi^2/\text{NDF}$ : 1760.3/11

Right Out:  $-1.615 \pm 0.068$   $\chi^2/\text{NDF}$ : 1427.3/17

Left In:  $-2.363 \pm 0.053$   $\chi^2/\text{NDF}$ : 1675.7/10

Left:  $-2.347 \pm 0.041$   $\chi^2/\text{NDF}$ : 3436.2/22

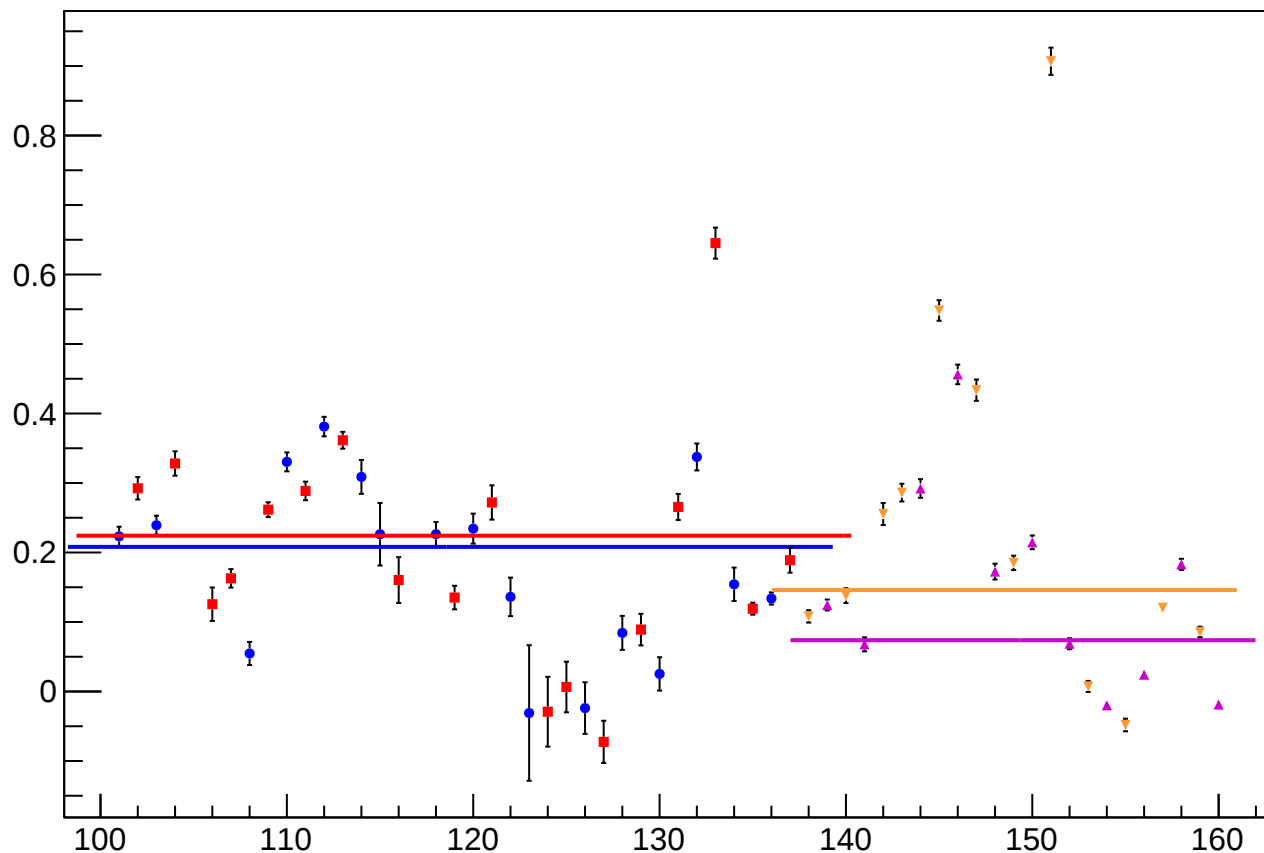
Right:  $-1.644 \pm 0.050$   $\chi^2/\text{NDF}$ : 2632.5/34

In:  $-2.124 \pm 0.043$   $\chi^2/\text{NDF}$ : 2938.9/27

Out:  $-1.987 \pm 0.047$   $\chi^2/\text{NDF}$ : 3244.8/29

All:  $-2.062 \pm 0.032$   $\chi^2/\text{NDF}$ : 6188.4/57

reg\_asym\_bcm\_dg\_us\_diff\_bpm12X\_slope vs Slug, Sign Corrected



Right In: 0.208 $\pm$ 0.004  $\chi^2$ /NDF: 600.2/16

Left Out: 0.146 $\pm$ 0.003  $\chi^2$ /NDF:3639.0/11

Right Out: 0.224 $\pm$ 0.004  $\chi^2$ /NDF: 995.8/17

Left In: 0.074 $\pm$ 0.002  $\chi^2$ /NDF:2141.1/10

Left: 0.102 $\pm$ 0.002  $\chi^2$ /NDF: 6162.2/22

Right: 0.217 $\pm$ 0.003  $\chi^2$ /NDF: 1603.8/34

In: 0.104 $\pm$ 0.002  $\chi^2$ /NDF:3508.9/27

Out: 0.174 $\pm$ 0.002  $\chi^2$ /NDF:4898.6/29

All: 0.135 $\pm$ 0.002  $\chi^2$ /NDF: 8923.4/57