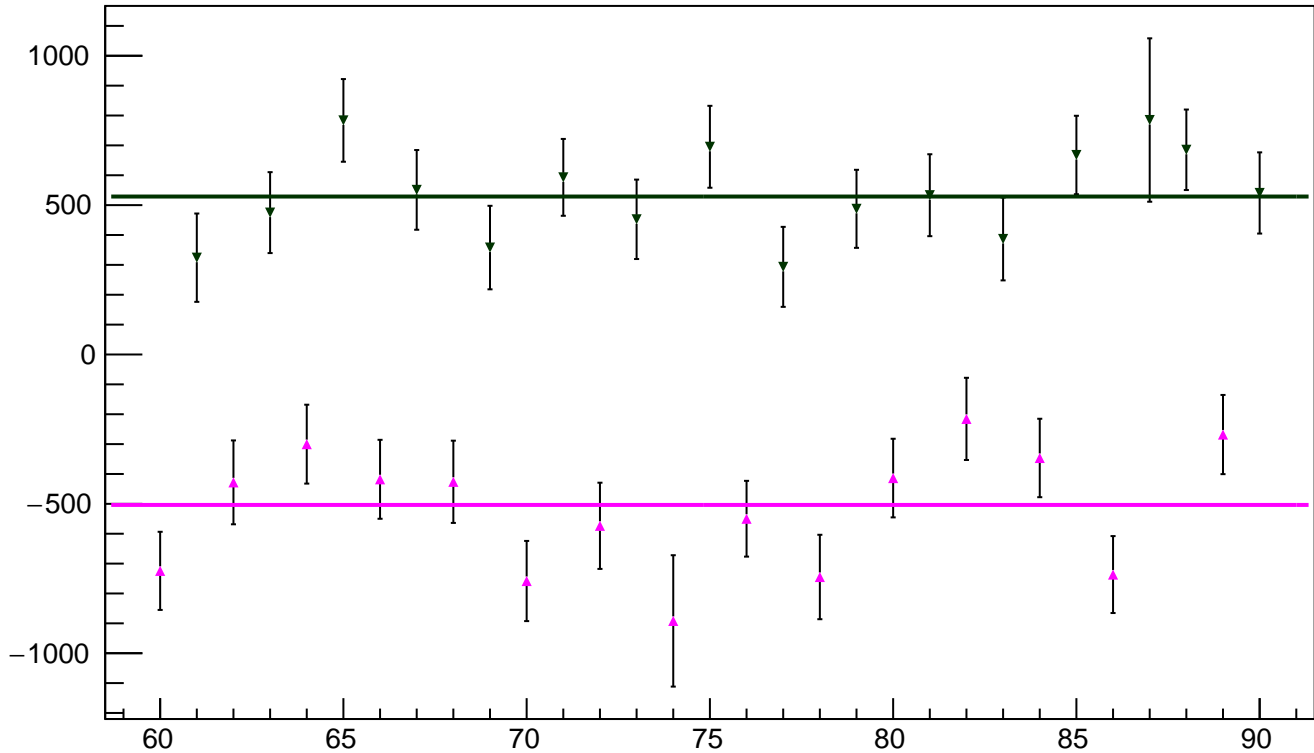


# reg\_asym\_us\_avg\_mean vs slug



Right In: 0.000+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

Left Out: 528.767+/-34.708

$\chi^2/\text{NDF}$ : 16.6/15

528.767+/-34.708

$\chi^2/\text{NDF}$ : 16.6/15

Right Out: 0.000+/-0.000

$\chi^2/\text{NDF}$ : 0.0/0

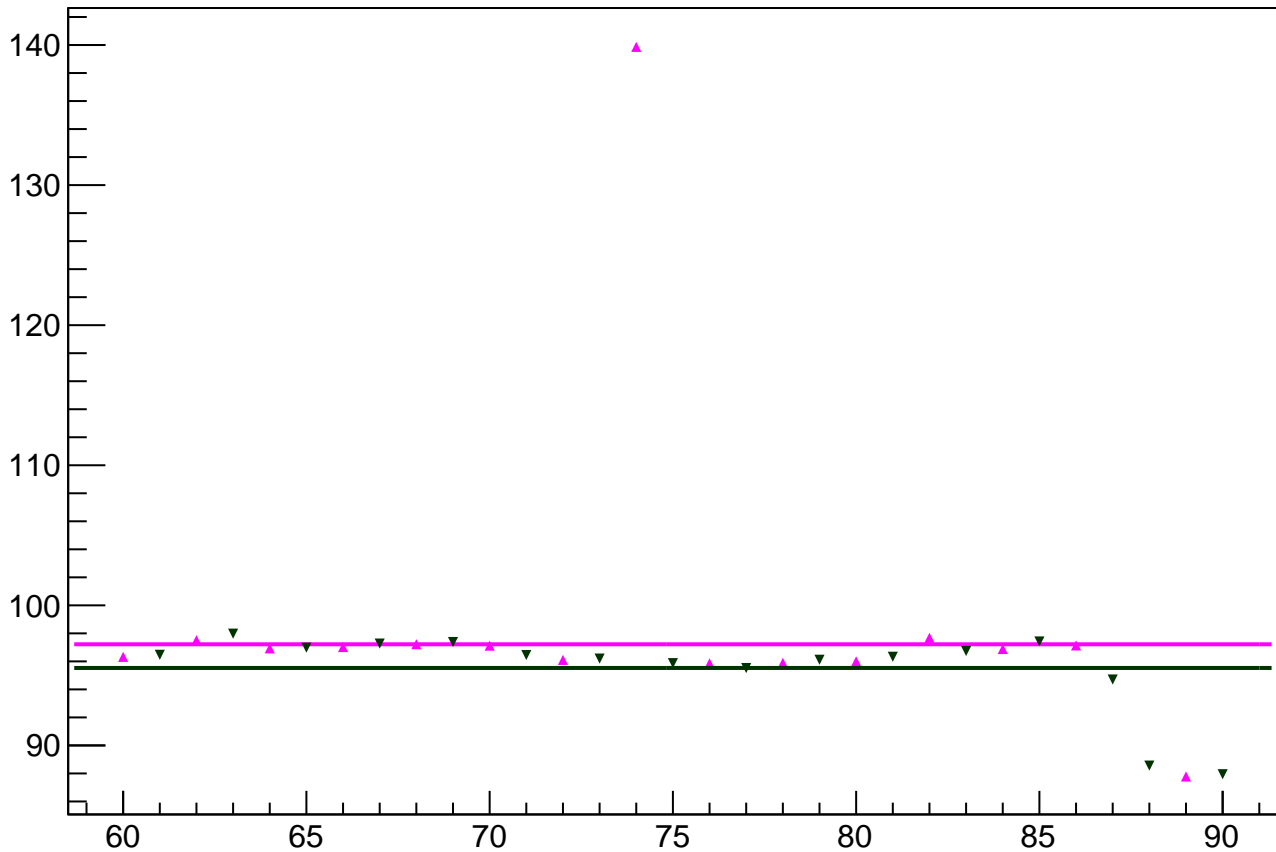
-503.620+/-35.381

$\chi^2/\text{NDF}$ : 29.0/14

Left In: -503.620+/-35.381

$\chi^2/\text{NDF}$ : 29.0/14

# reg\_asym\_us\_avg\_rms vs slug



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

Left Out: 95.531+/-0.025  $\chi^2$ /NDF:14087.8/15

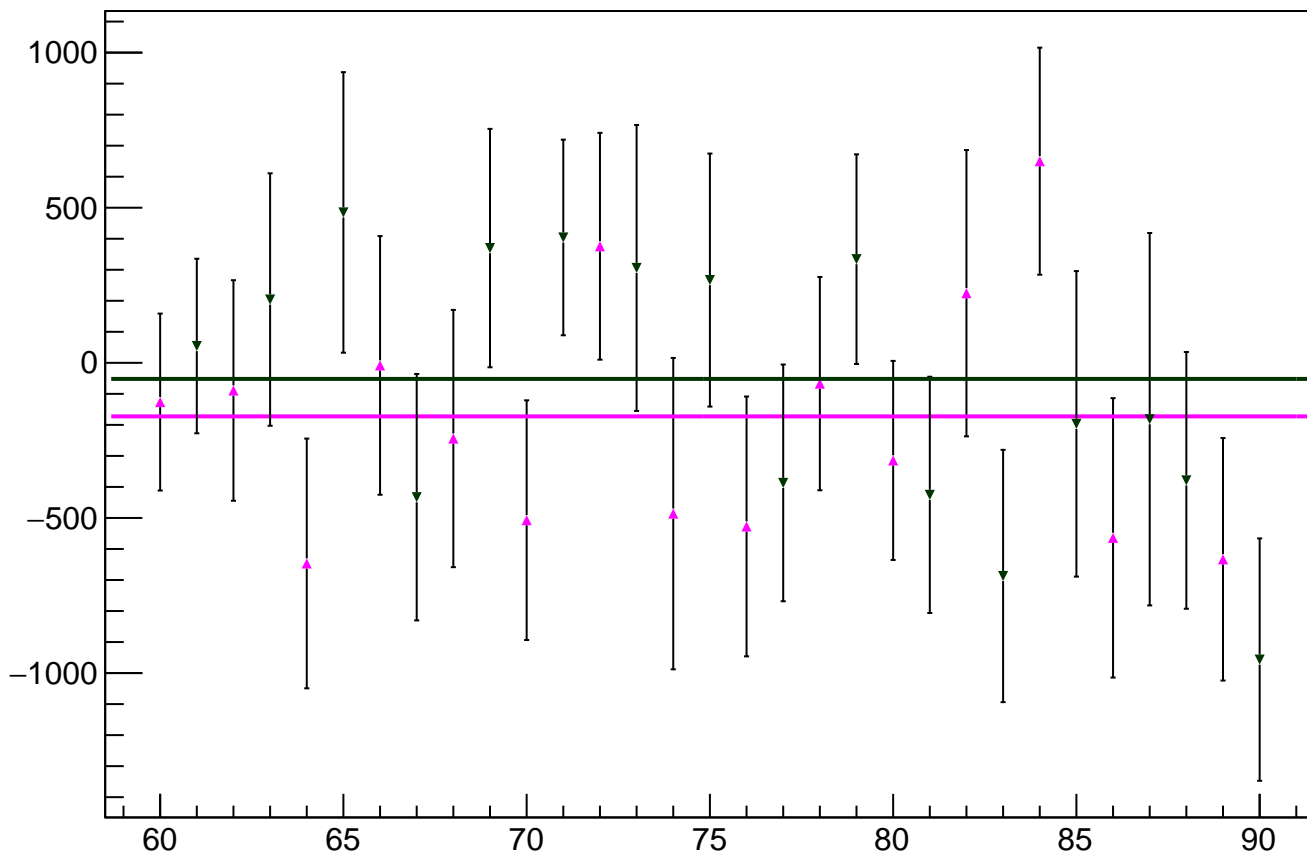
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 97.220+/-0.025  $\chi^2$ /NDF:86210.0/14

95.531+/-0.025  $\chi^2$ /NDF: 14087.8/15

97.220+/-0.025  $\chi^2$ /NDF: 86210.0/14

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



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

Left Out: -51.837+/-97.438  $\chi^2$ /NDF:19.0/15

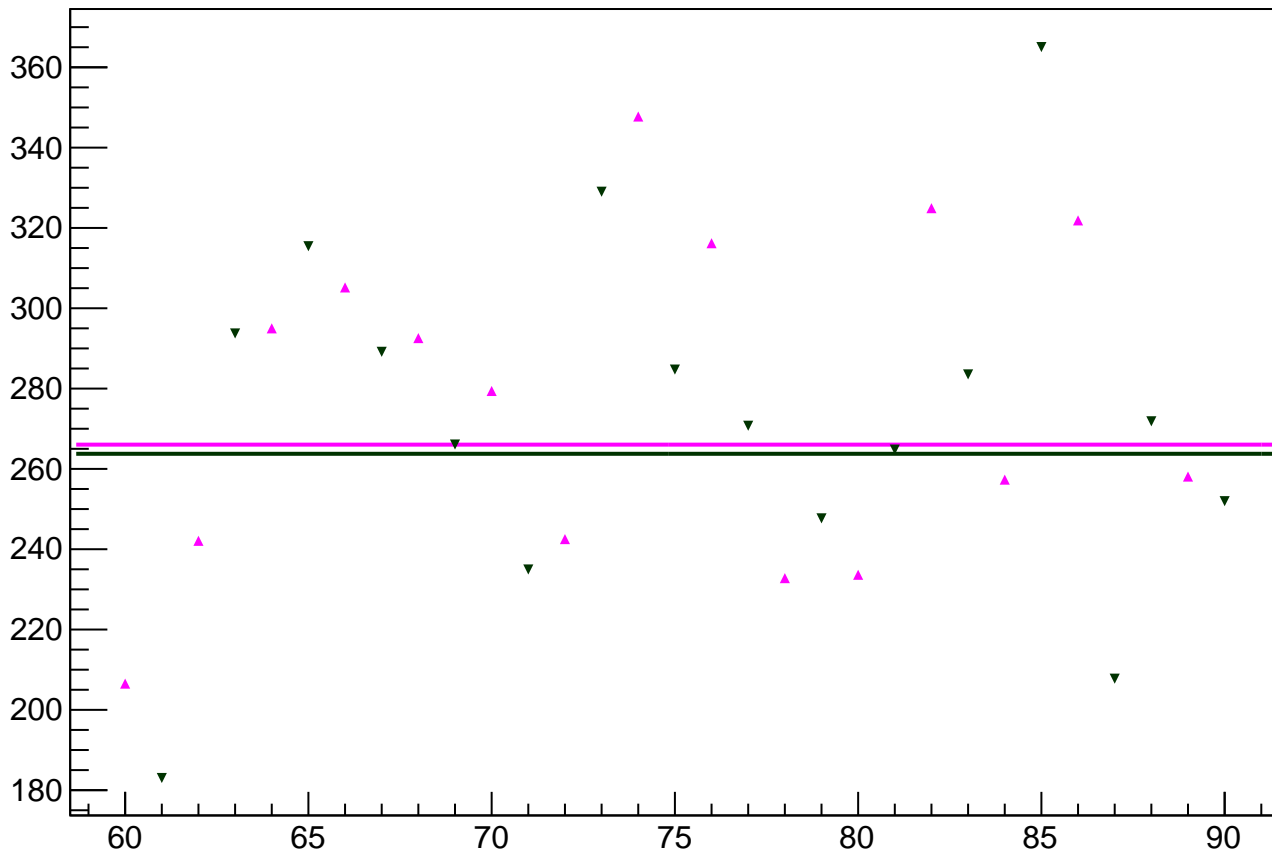
-51.837+/-97.438  $\chi^2$ /NDF: 19.0/15

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

-172.578+/-98.234  $\chi^2$ /NDF: 14.0/14

Left In: -172.578+/-98.234  $\chi^2$ /NDF:14.0/14

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



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

Left Out: 263.762+/-0.069  $\chi^2$ /NDF:386542.1/15

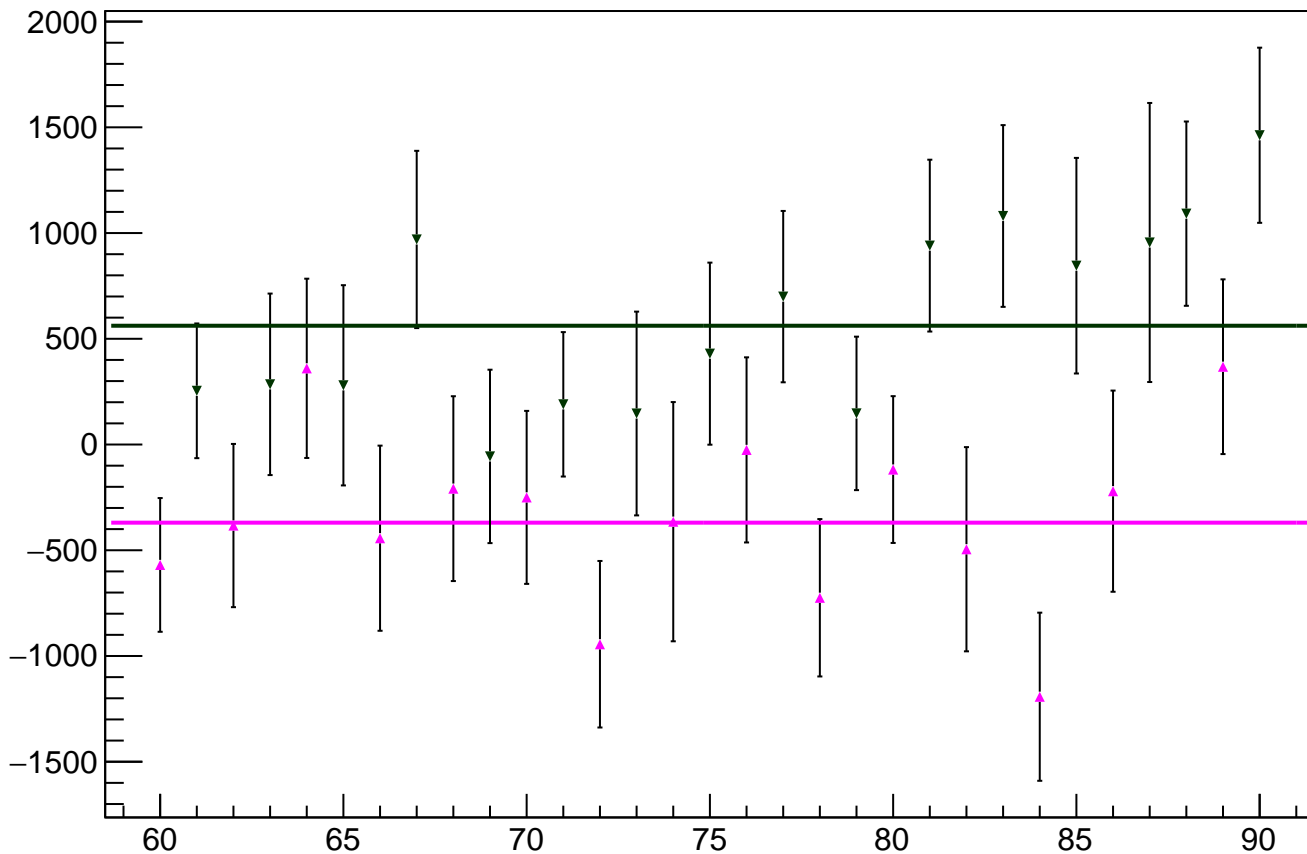
263.762+/-0.069  $\chi^2$ /NDF: 386542.1/15

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

Left In: 266.042+/-0.069  $\chi^2$ /NDF:329076.7/14

266.042+/-0.069  $\chi^2$ /NDF: 329076.7/14

# asym\_us\_avg\_mean vs slug



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

Left Out: 561.711+/-104.214  $\chi^2$ /NDF:17.6/15

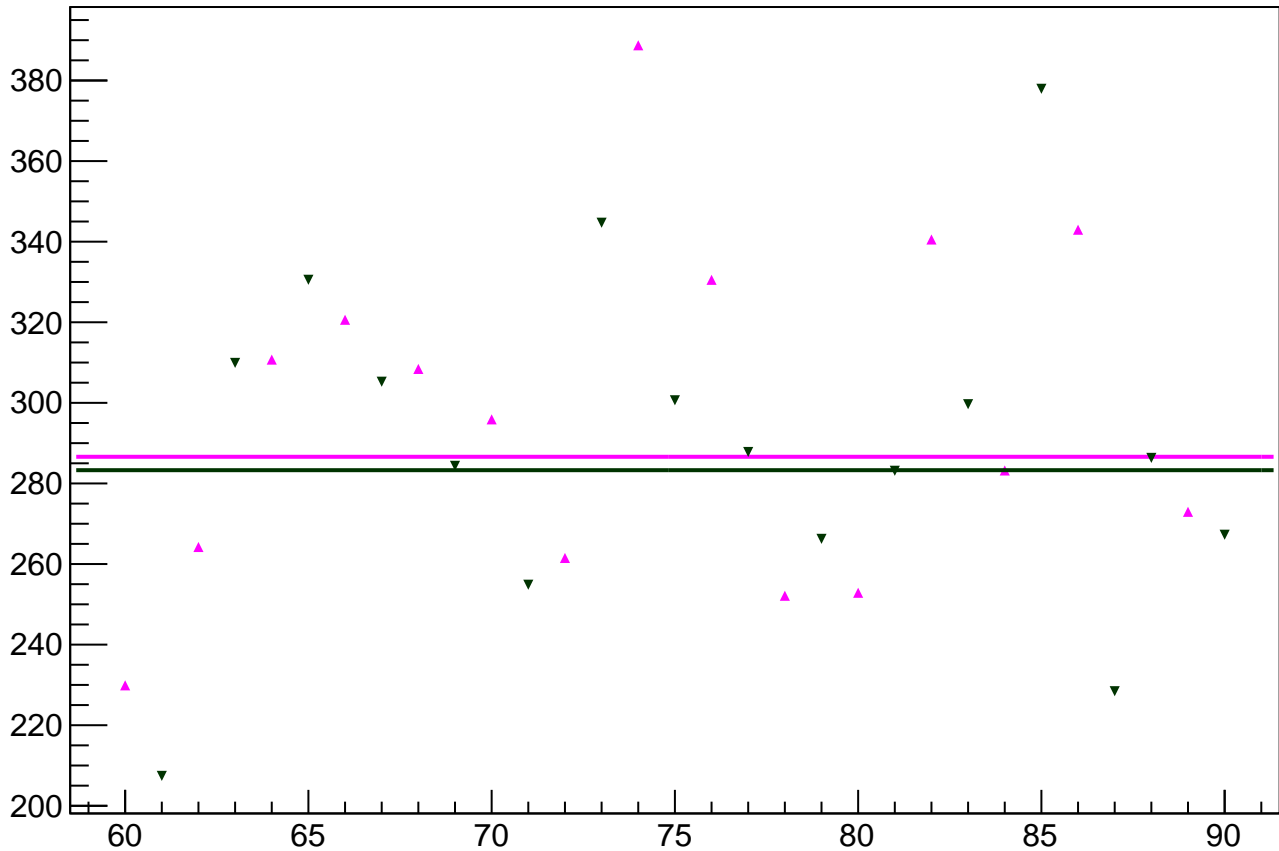
561.711+/-104.214  $\chi^2$ /NDF: 17.6/15

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

-369.518+/-105.453  $\chi^2$ /NDF: 15.4/14

Left In: -369.518+/-105.453  $\chi^2$ /NDF:15.4/14

# asym\_us\_avg\_rms vs slug



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

Left Out: 283.290+/-0.074  $\chi^2/\text{NDF}$ : 289647.1/15

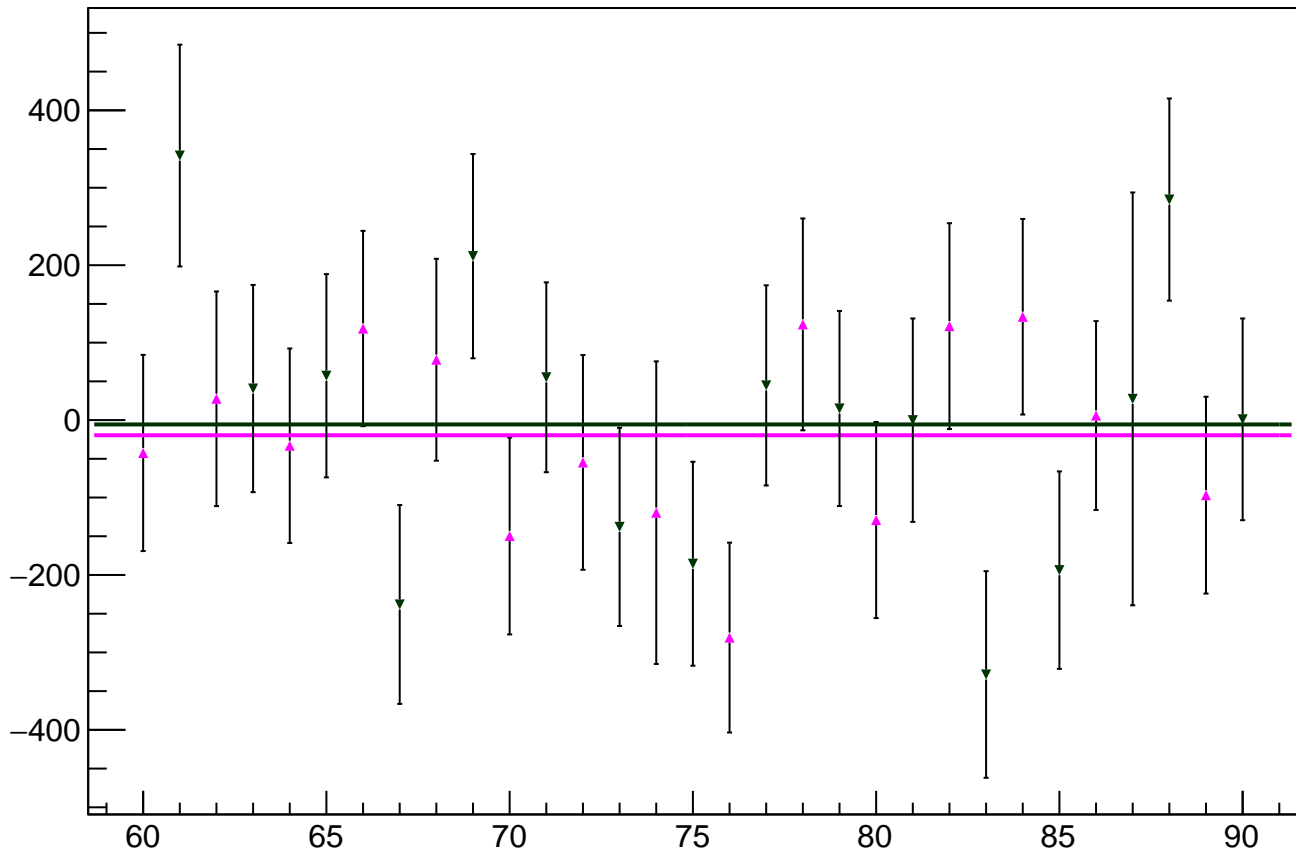
283.290+/-0.074  $\chi^2/\text{NDF}$ : 289647.1/15

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

Left In: 286.617+/-0.075  $\chi^2/\text{NDF}$ : 280530.9/14

286.617+/-0.075  $\chi^2/\text{NDF}$ : 280530.9/14

# reg\_asym\_us\_dd\_mean vs slug



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

Left Out: -5.627+/-33.399  $\chi^2/\text{NDF}$ : 28.6/15

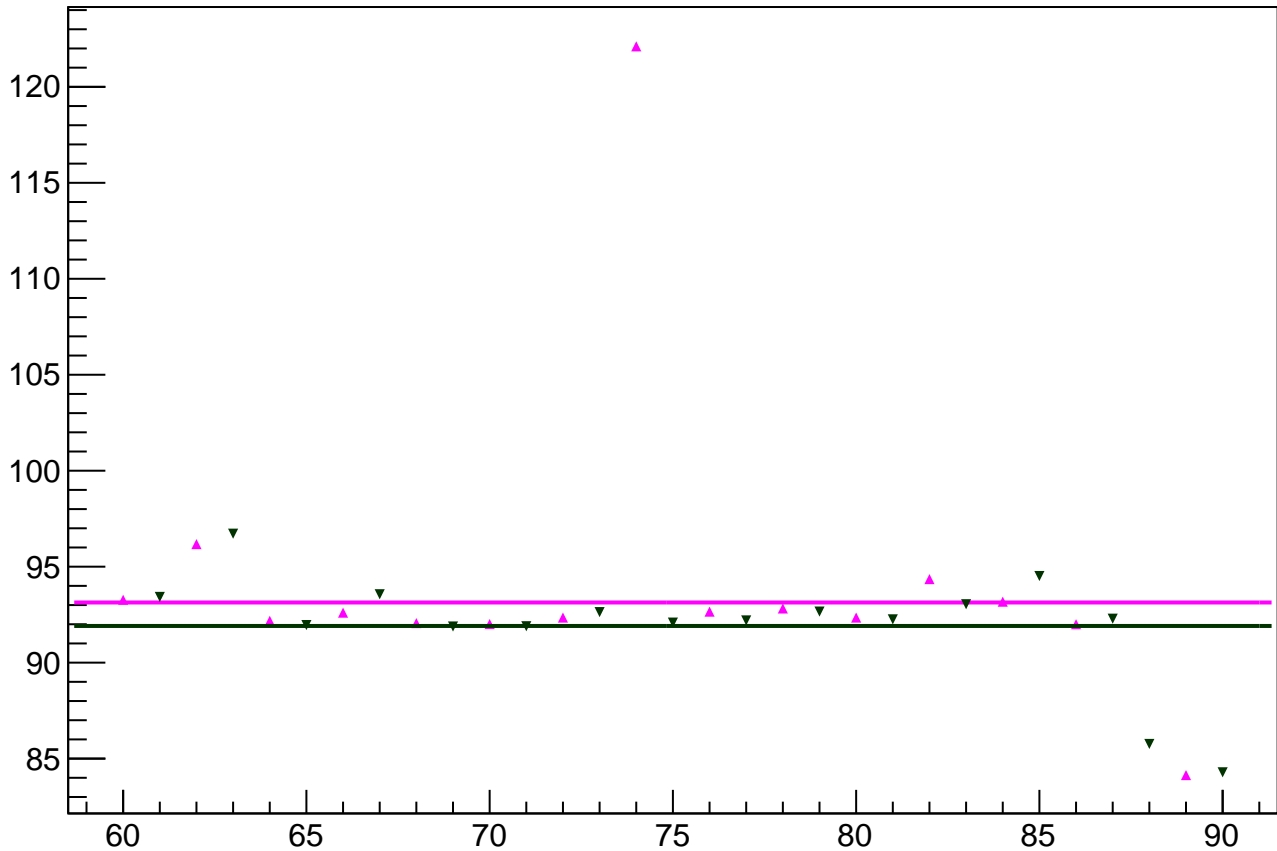
-5.627+/-33.399  $\chi^2/\text{NDF}$ : 28.6/15

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

Left In: -19.565+/-33.894  $\chi^2/\text{NDF}$ : 12.7/14

-19.565+/-33.894  $\chi^2/\text{NDF}$ : 12.7/14

# reg\_asym\_us\_dd\_rms vs slug



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

Left Out: 91.911+/-0.024  $\chi^2$ /NDF:15573.8/15

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

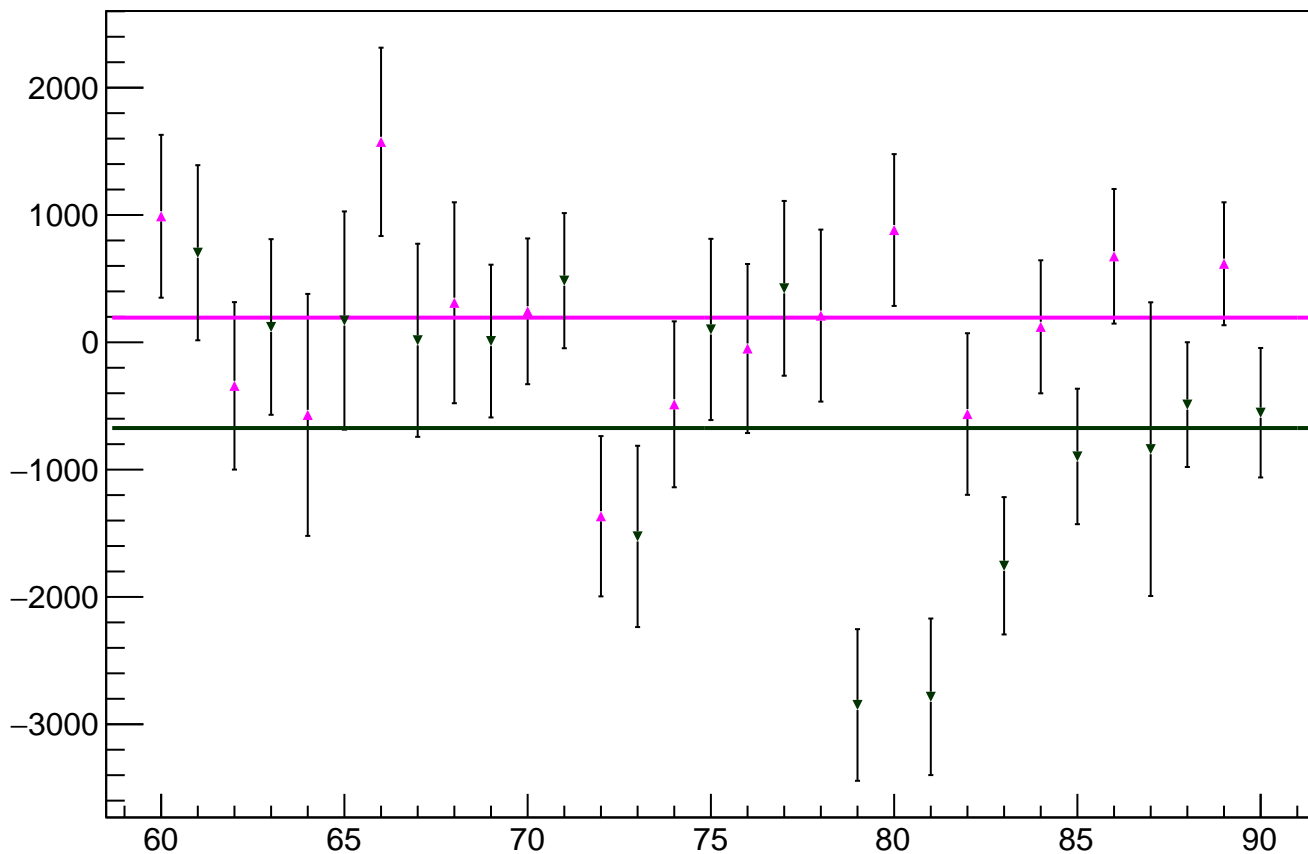
Left In: 93.134+/-0.024  $\chi^2$ /NDF:55915.8/14

91.911+/-0.024  $\chi^2$ /NDF: 15573.8/15

93.134+/-0.024  $\chi^2$ /NDF: 55915.8/14



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



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

Left Out: -673.443+/-156.309  $\chi^2$ /NDF:47.9/15

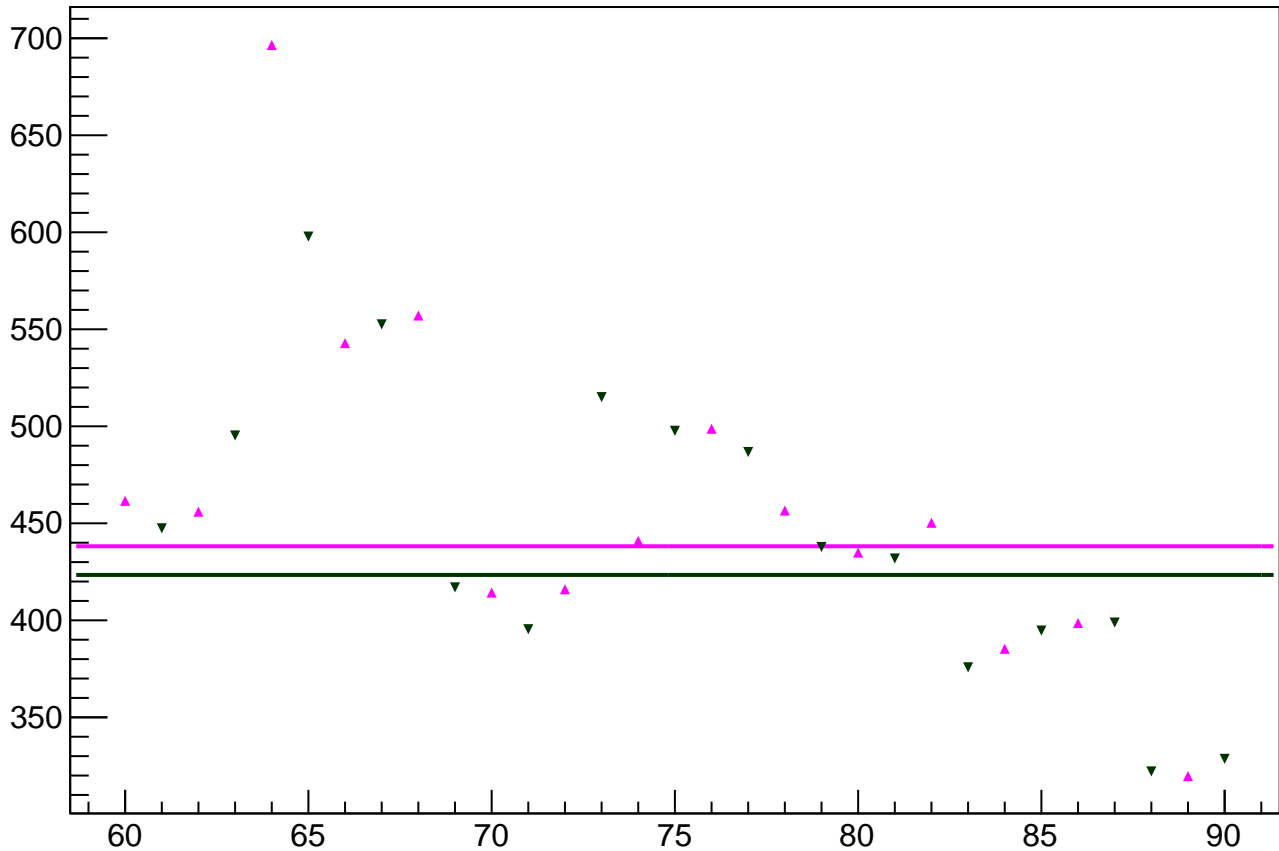
-673.443+/-156.309  $\chi^2$ /NDF: 47.9/15

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

193.869+/-161.138  $\chi^2$ /NDF: 18.1/14

Left In: 193.869+/-161.138  $\chi^2$ /NDF:18.1/14

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



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

Left Out: 423.391+/-0.111  $\chi^2$ /NDF:421491.6/15

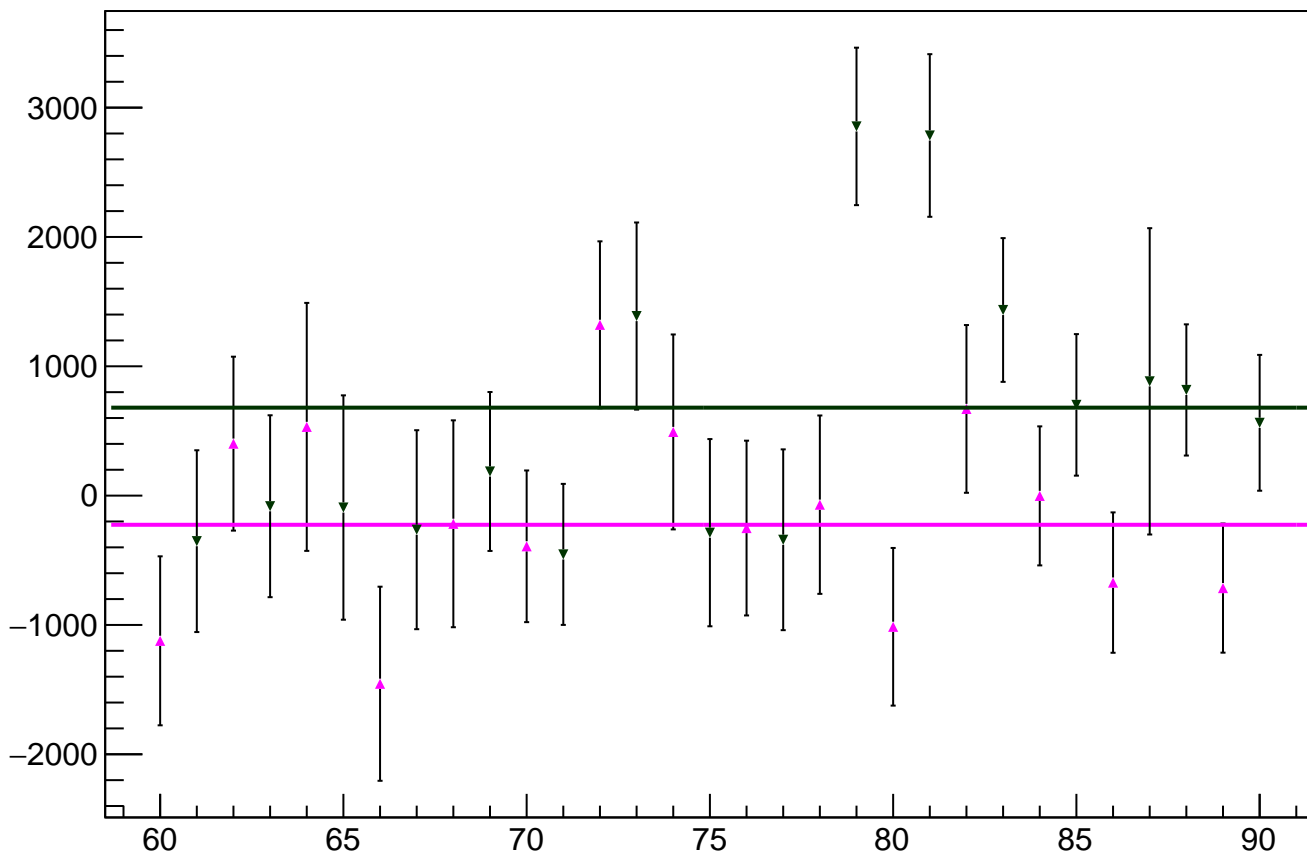
423.391+/-0.111  $\chi^2$ /NDF: 421491.6/15

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

Left In: 438.171+/-0.114  $\chi^2$ /NDF:414457.7/14

438.171+/-0.114  $\chi^2$ /NDF: 414457.7/14

# asym\_us\_dd\_mean vs slug



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

Left Out: 680.180+/-160.184  $\chi^2/\text{NDF}$ : 41.4/15

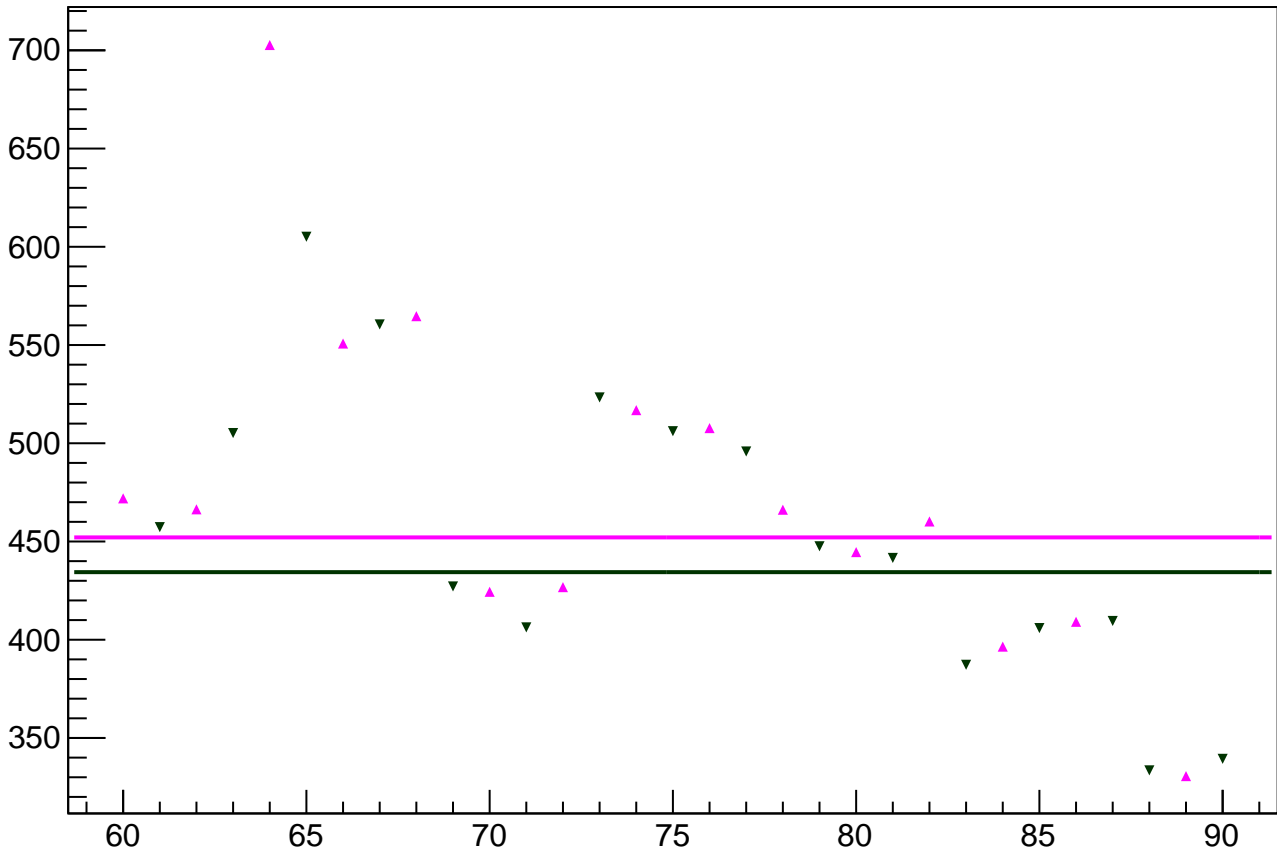
680.180+/-160.184  $\chi^2/\text{NDF}$ : 41.4/15

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

-225.510+/-166.023  $\chi^2/\text{NDF}$ : 18.2/14

Left In: -225.510+/-166.023  $\chi^2/\text{NDF}$ : 18.2/14

# asym\_us\_dd\_rms vs slug



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

Left Out: 434.399+/-0.113  $\chi^2$ /NDF:390976.4/15

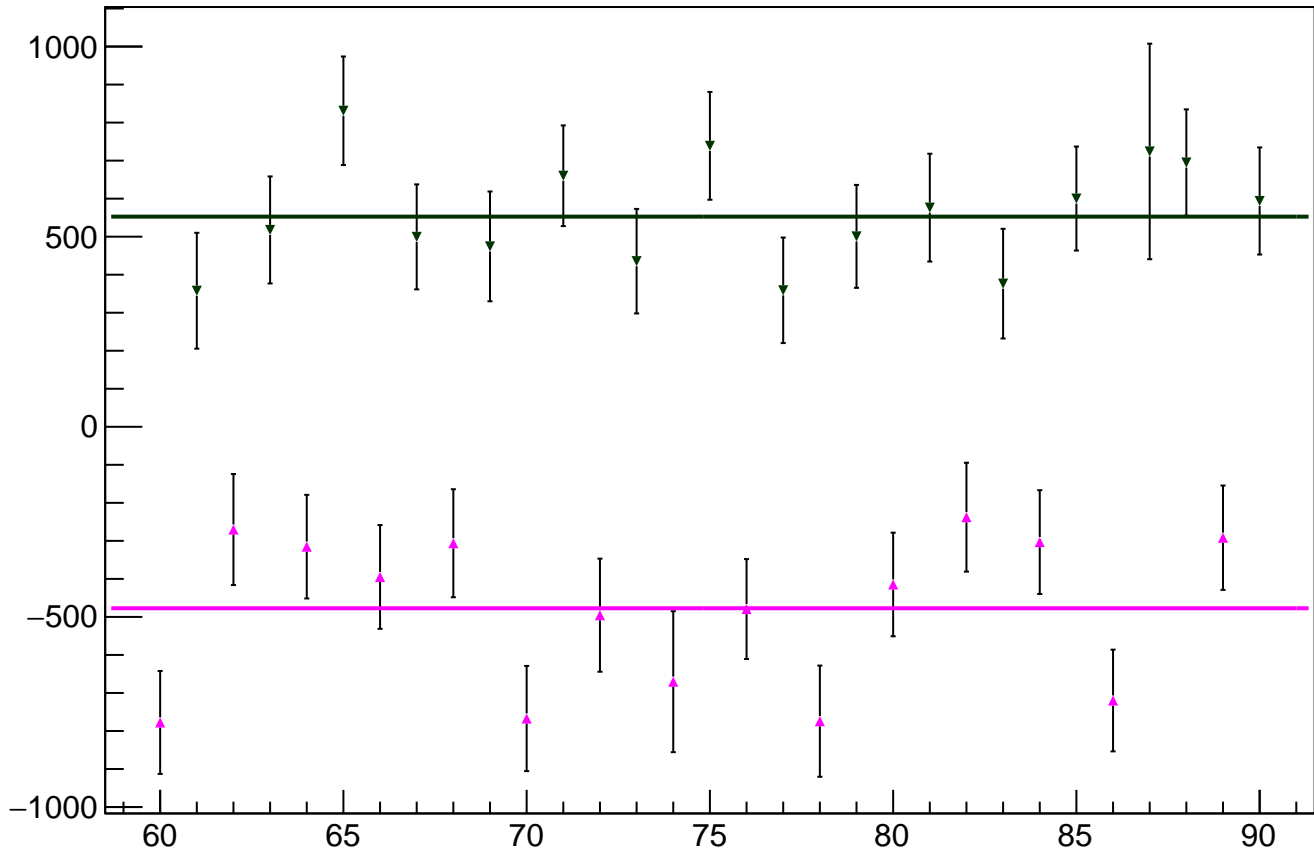
434.399+/-0.113  $\chi^2$ /NDF: 390976.4/15

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

Left In: 452.081+/-0.117  $\chi^2$ /NDF:403296.1/14

452.081+/-0.117  $\chi^2$ /NDF: 403296.1/14

# reg\_asym\_ds\_avg\_mean vs slug



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

Left Out: 552.698+/-35.925  $\chi^2/\text{NDF}$ : 14.3/15

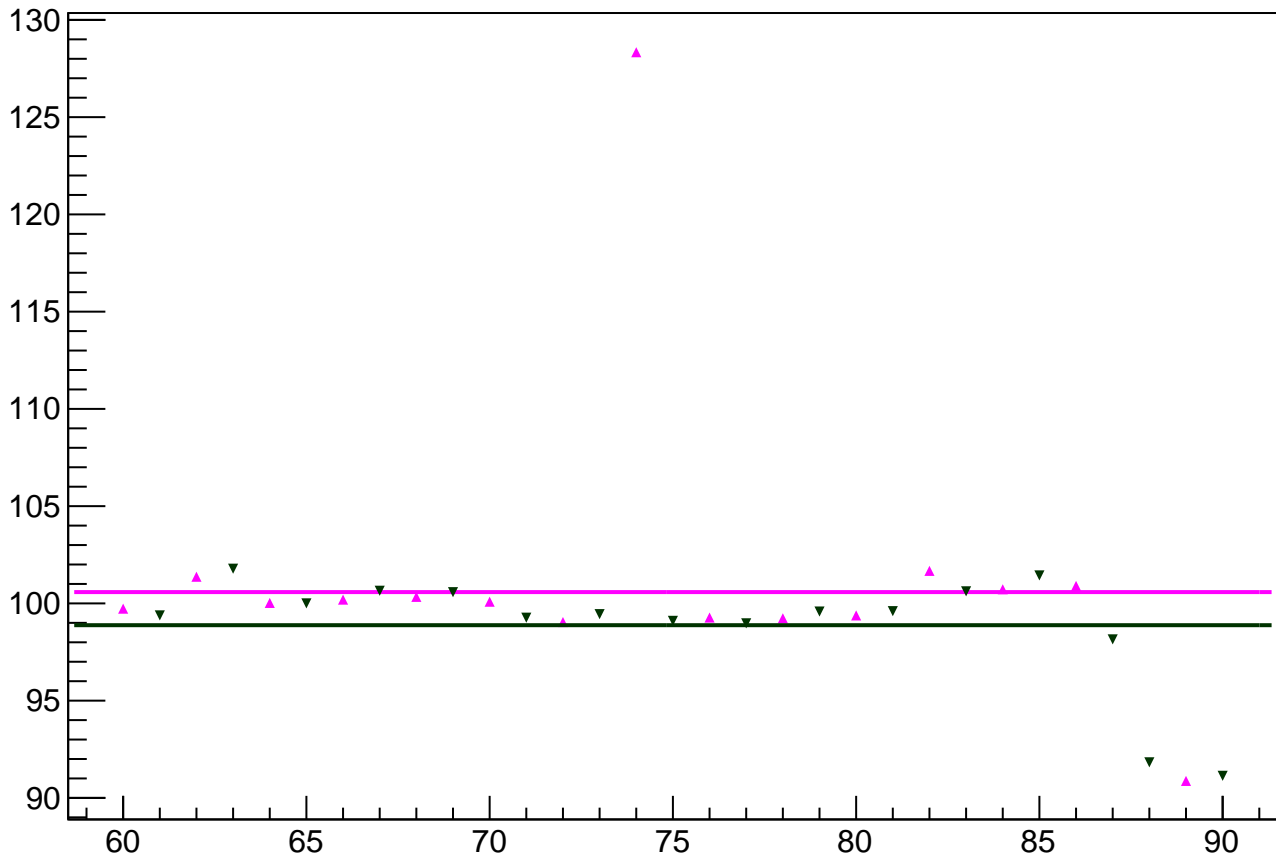
552.698+/-35.925  $\chi^2/\text{NDF}$ : 14.3/15

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

-477.191+/-36.389  $\chi^2/\text{NDF}$ : 29.5/14

Left In: -477.191+/-36.389  $\chi^2/\text{NDF}$ : 29.5/14

# reg\_asym\_ds\_avg\_rms vs slug



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

Left Out: 98.880+/-0.025  $\chi^2$ /NDF:13910.1/15

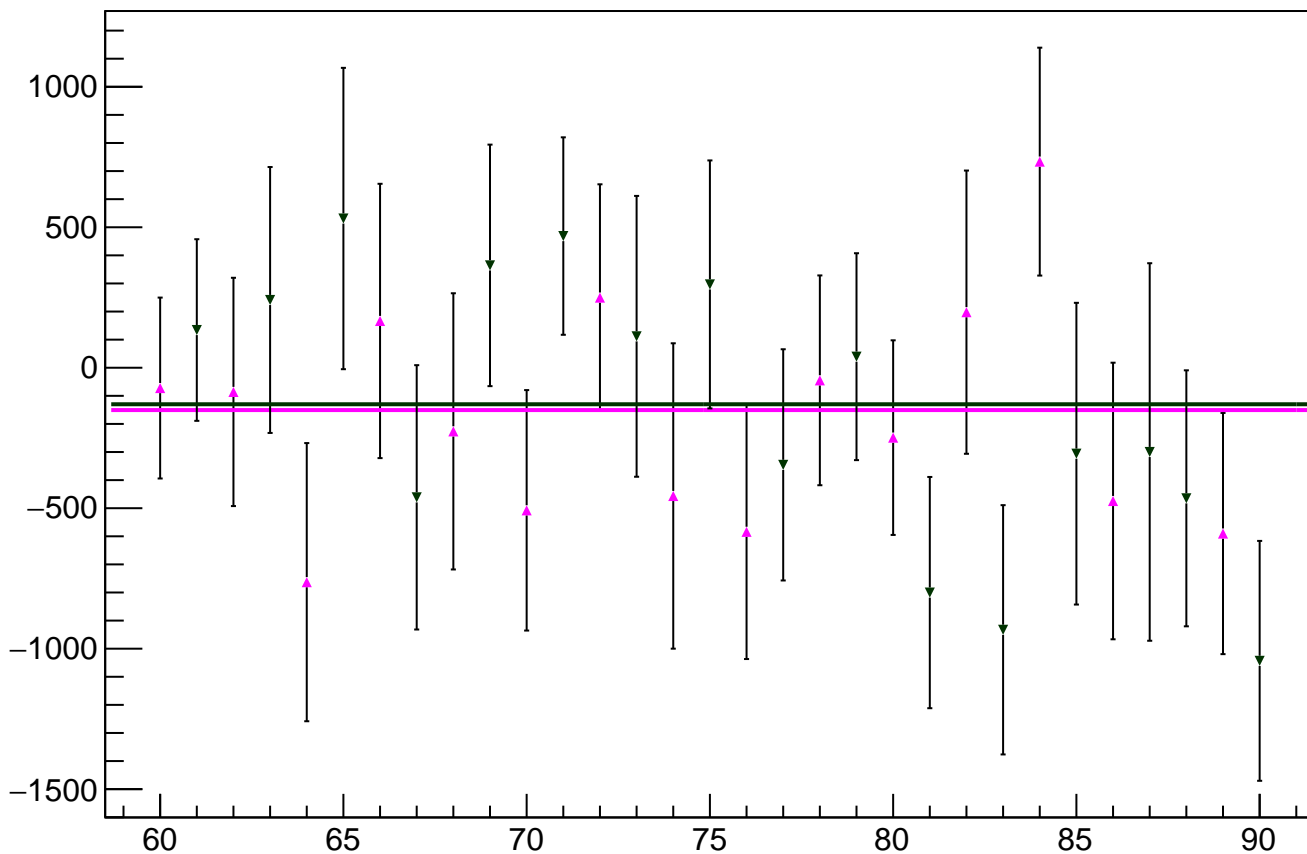
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 100.581+/-0.026  $\chi^2$ /NDF:55938.3/14

98.880+/-0.025  $\chi^2$ /NDF: 13910.1/15

100.581+/-0.026  $\chi^2$ /NDF: 55938.3/14

# asym\_ds\_avg\_correction\_mean vs slug



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

Left Out: -130.007+/-108.510  $\chi^2/\text{NDF}$ : 20.4/15

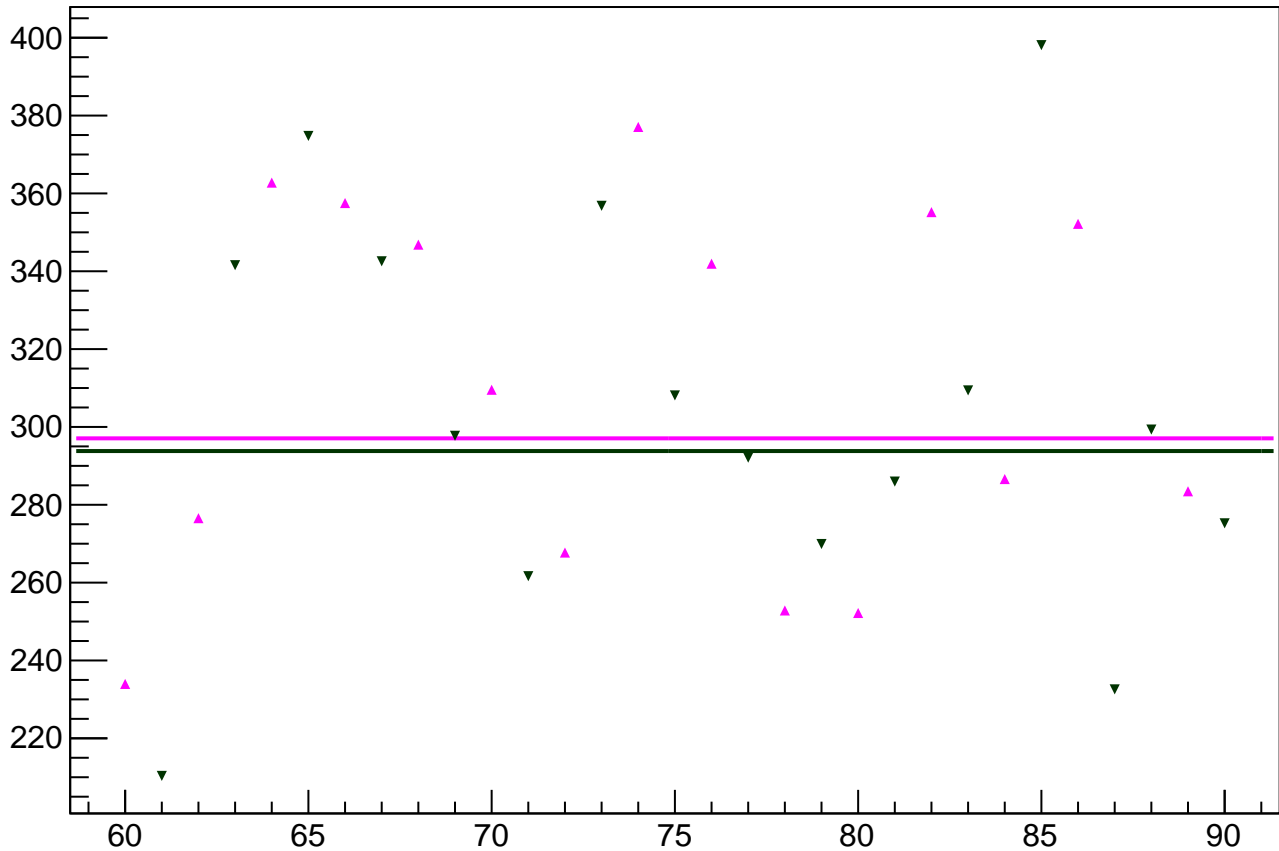
-130.007+/-108.510  $\chi^2/\text{NDF}$ : 20.4/15

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

Left In: -150.701+/-109.721  $\chi^2/\text{NDF}$ : 11.8/14

-150.701+/-109.721  $\chi^2/\text{NDF}$ : 11.8/14

# asym\_ds\_avg\_correction\_rms vs slug



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

Left Out: 293.806+/-0.077  $\chi^2/\text{NDF}$ : 379331.3/15

293.806+/-0.077  $\chi^2/\text{NDF}$ : 379331.3/15

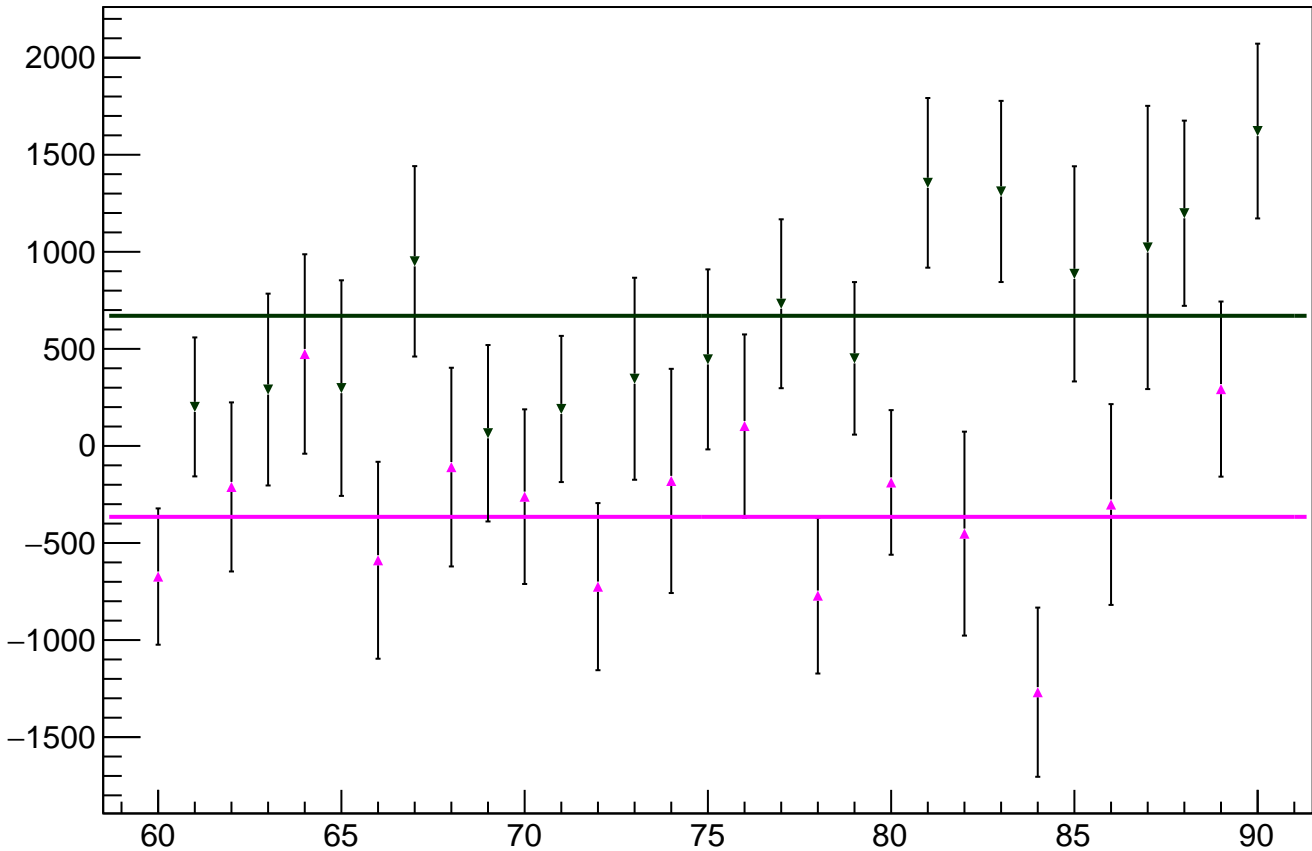
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 297.070+/-0.078  $\chi^2/\text{NDF}$ : 360195.8/14

297.070+/-0.078  $\chi^2/\text{NDF}$ : 360195.8/14



# asym\_ds\_avg\_mean vs slug



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

670.422+/-115.017  $\chi^2$ /NDF: 17.9/15

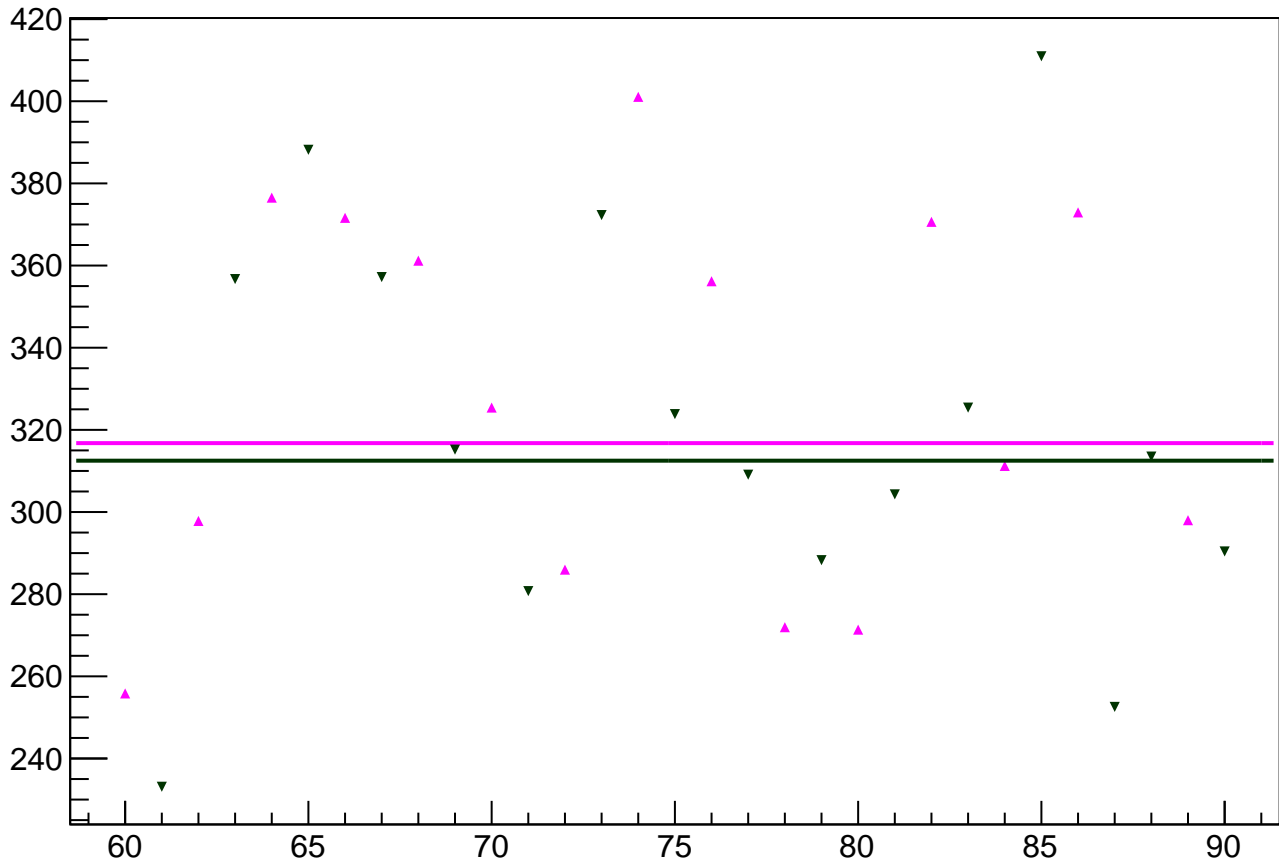
Left Out: 670.422+/-115.017  $\chi^2$ /NDF: 17.9/15

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

-365.280+/-116.512  $\chi^2$ /NDF: 13.6/14

Left In: -365.280+/-116.512  $\chi^2$ /NDF: 13.6/14

# asym\_ds\_avg\_rms vs slug



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

Left Out: 312.498+/-0.081  $\chi^2/\text{NDF}$ : 301399.7/15

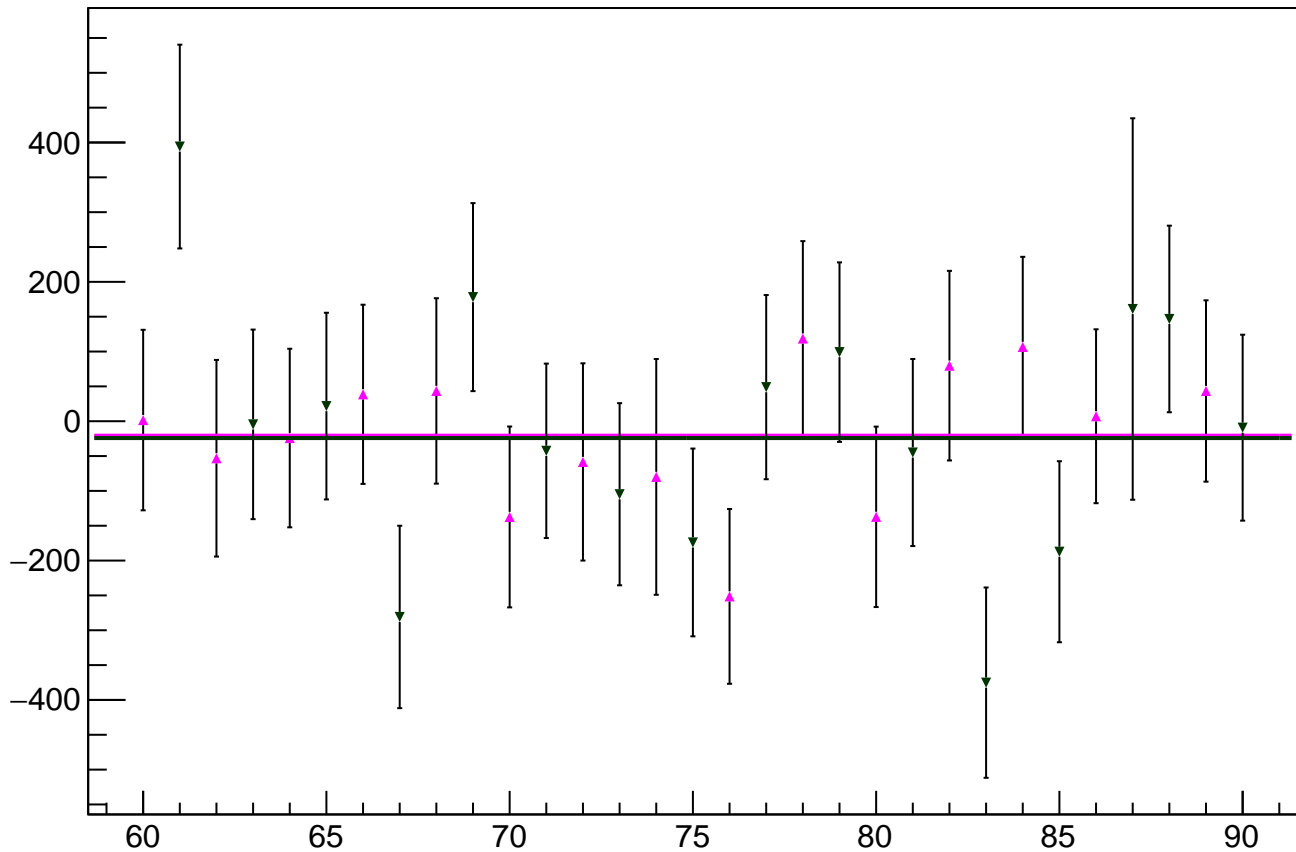
312.498+/-0.081  $\chi^2/\text{NDF}$ : 301399.7/15

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

Left In: 316.773+/-0.082  $\chi^2/\text{NDF}$ : 300126.6/14

316.773+/-0.082  $\chi^2/\text{NDF}$ : 300126.6/14

# reg\_asym\_ds\_dd\_mean vs slug



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

Left Out: -24.189+/-34.130  $\chi^2$ /NDF:27.6/15

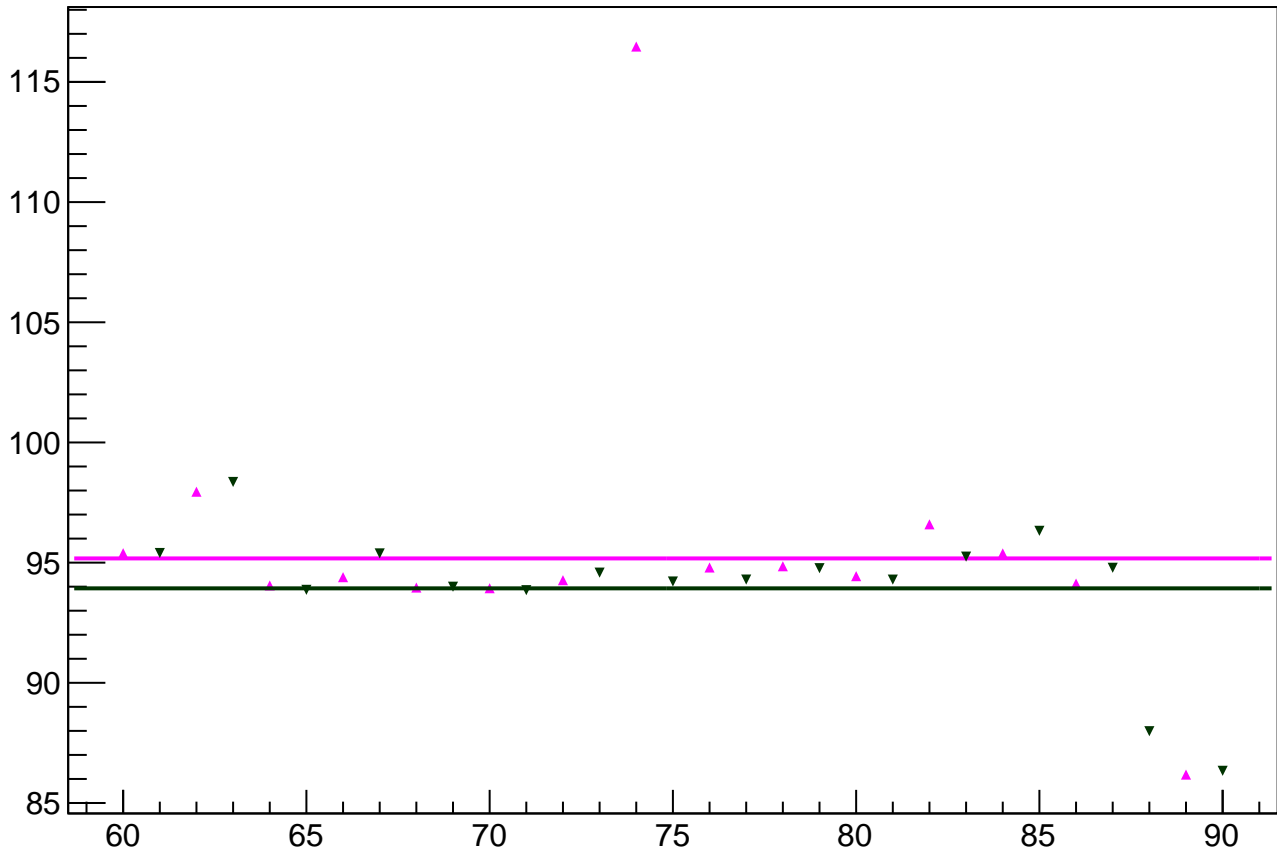
-24.189+/-34.130  $\chi^2$ /NDF: 27.6/15

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

-20.743+/-34.432  $\chi^2$ /NDF: 8.5/14

Left In: -20.743+/-34.432  $\chi^2$ /NDF:8.5/14

# reg\_asym\_ds\_dd\_rms vs slug



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

Left Out: 93.930+/-0.024  $\chi^2$ /NDF:14043.6/15

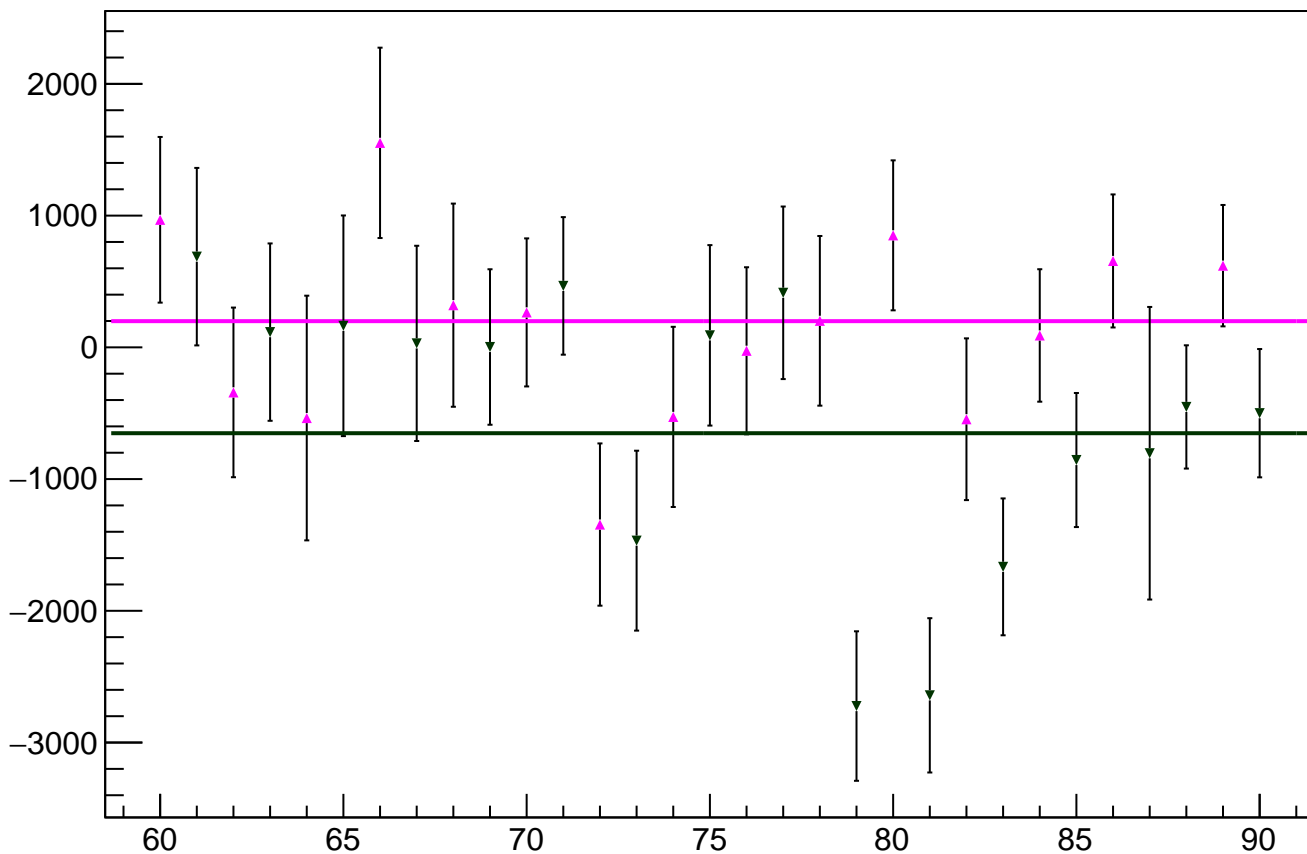
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 95.175+/-0.024  $\chi^2$ /NDF:43126.5/14

93.930+/-0.024  $\chi^2$ /NDF: 14043.6/15

95.175+/-0.024  $\chi^2$ /NDF: 43126.5/14

# asym\_ds\_dd\_correction\_mean vs slug



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

Left Out: -651.785+/-150.782  $\chi^2$ /NDF:47.3/15

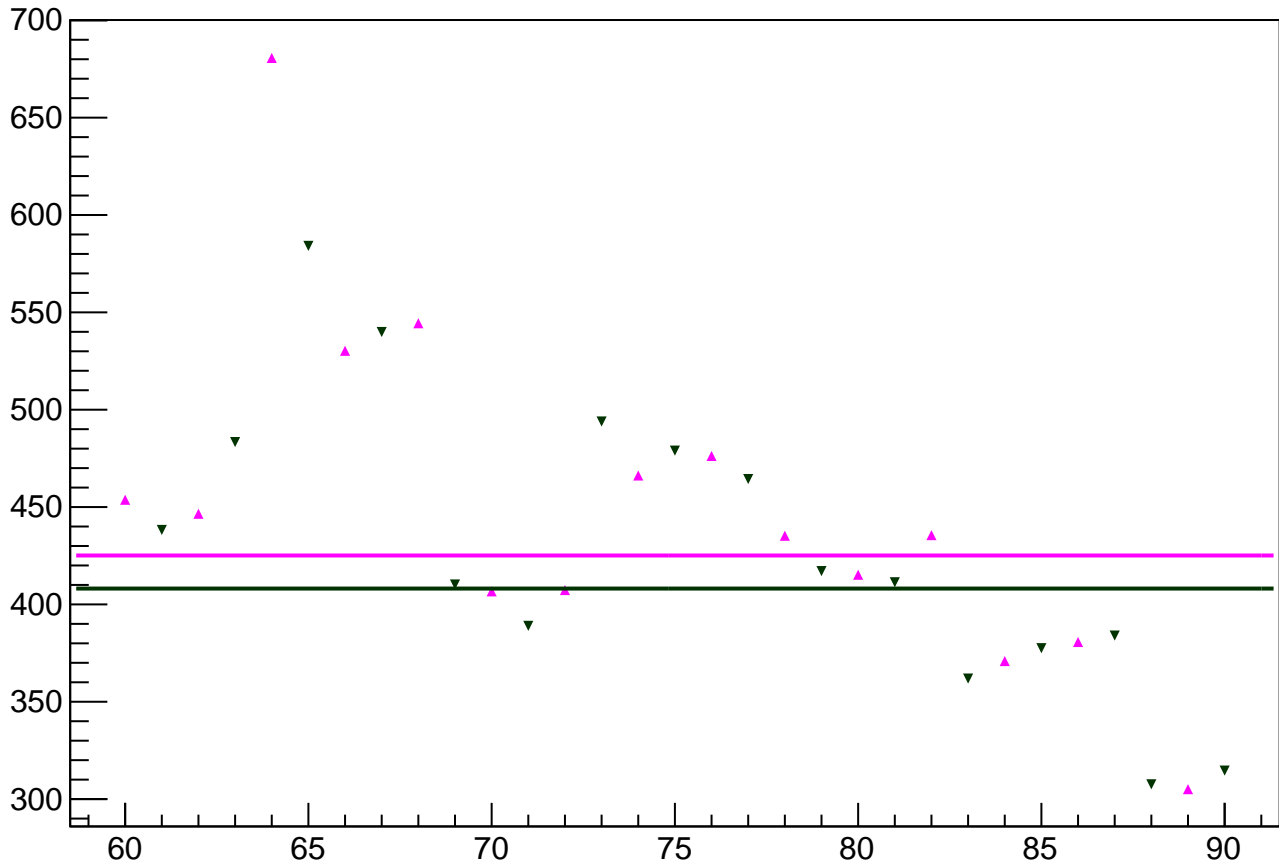
-651.785+/-150.782  $\chi^2$ /NDF: 47.3/15

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

198.807+/-156.436  $\chi^2$ /NDF: 18.4/14

Left In: 198.807+/-156.436  $\chi^2$ /NDF:18.4/14

# asym\_ds\_dd\_correction\_rms vs slug



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

Left Out: 408.136+/-0.107  $\chi^2$ /NDF:441618.0/15

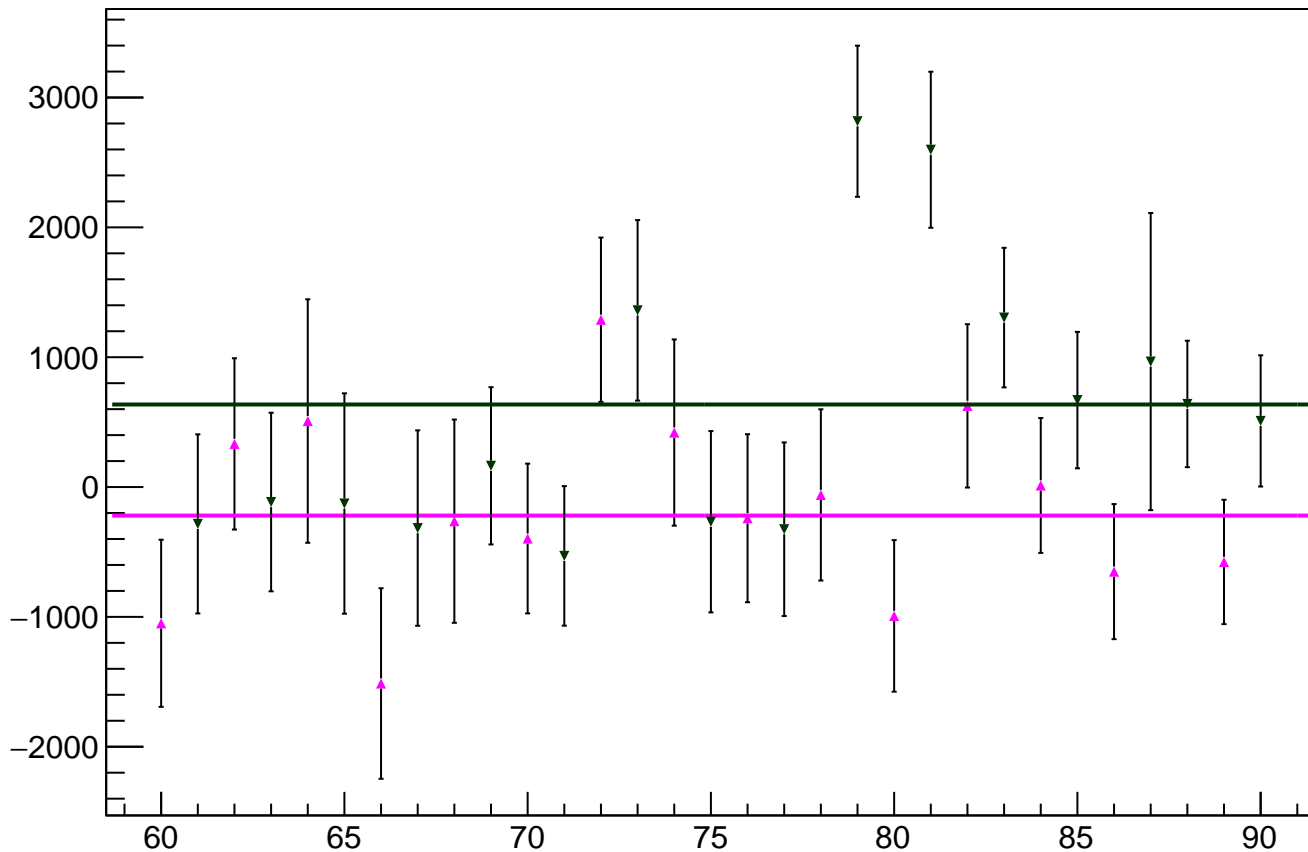
408.136+/-0.107  $\chi^2$ /NDF: 441618.0/15

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

Left In: 425.124+/-0.111  $\chi^2$ /NDF:448124.3/14

425.124+/-0.111  $\chi^2$ /NDF: 448124.3/14

# asym\_ds\_dd\_mean vs slug



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

635.782+/-154.990  $\chi^2$ /NDF: 41.9/15

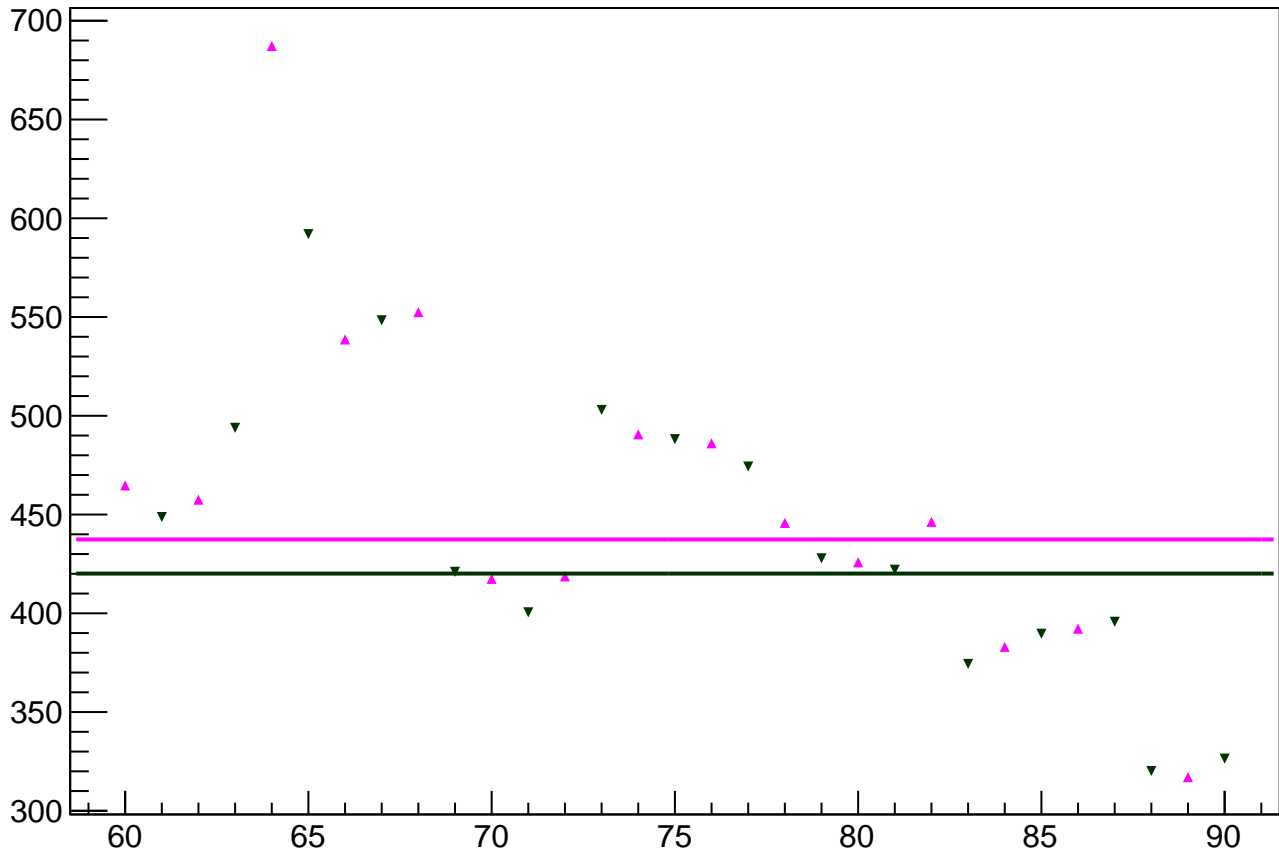
Left Out: 635.782+/-154.990  $\chi^2$ /NDF:41.9/15

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

-219.804+/-160.732  $\chi^2$ /NDF: 17.7/14

Left In: -219.804+/-160.732  $\chi^2$ /NDF:17.7/14

# asym\_ds\_dd\_rms vs slug



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

Left Out: 420.111+/-0.110  $\chi^2$ /NDF:405401.5/15

420.111+/-0.110  $\chi^2$ /NDF: 405401.5/15

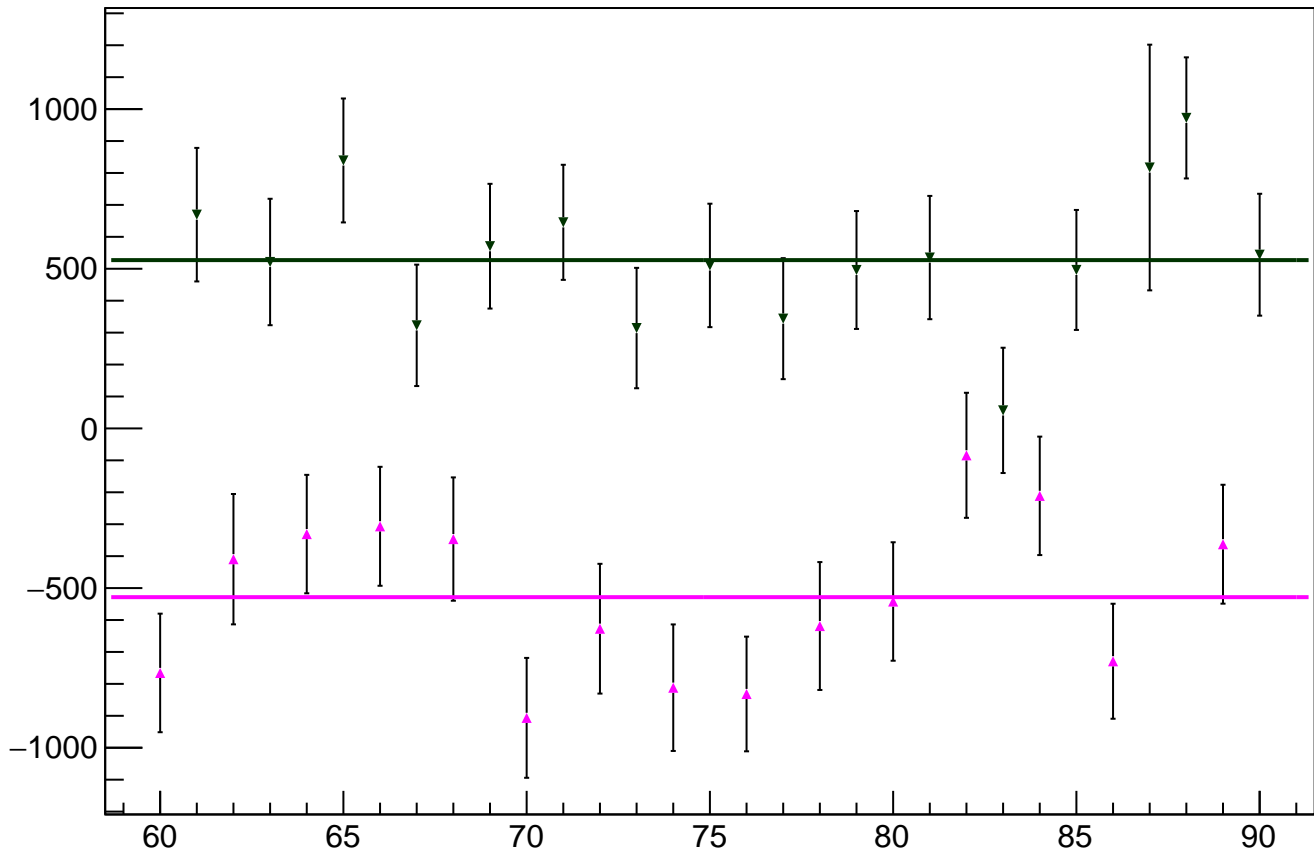
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 437.392+/-0.114  $\chi^2$ /NDF:420145.0/14

437.392+/-0.114  $\chi^2$ /NDF: 420145.0/14



# reg\_asym\_usl\_mean vs slug



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

527.095+/-49.095  $\chi^2/\text{NDF}$ : 18.8/15

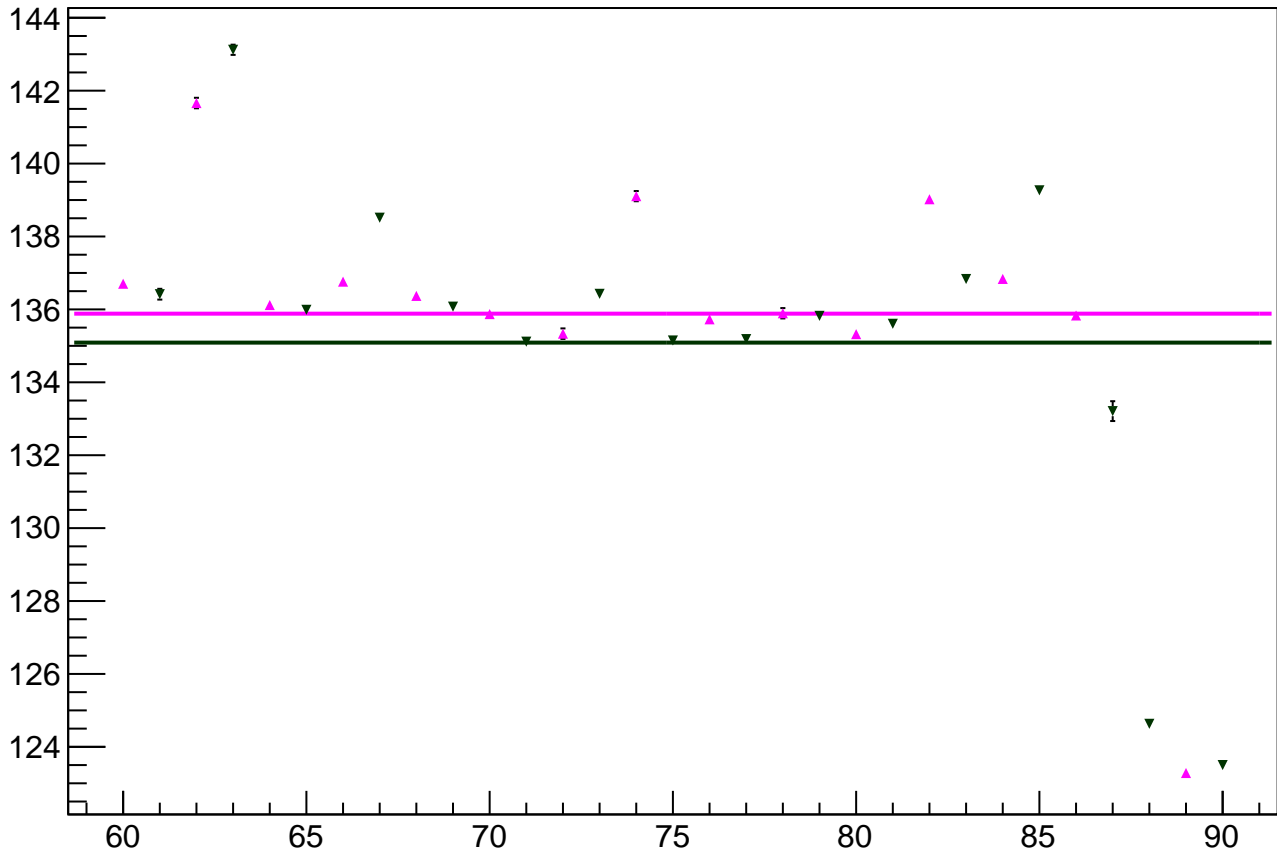
Left Out: 527.095+/-49.095  $\chi^2/\text{NDF}$ : 18.8/15

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

-528.433+/-49.051  $\chi^2/\text{NDF}$ : 24.9/14

Left In: -528.433+/-49.051  $\chi^2/\text{NDF}$ : 24.9/14

# reg\_asym\_usl\_rms vs slug



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

Left Out: 135.089+/-0.035  $\chi^2$ /NDF:18916.5/15

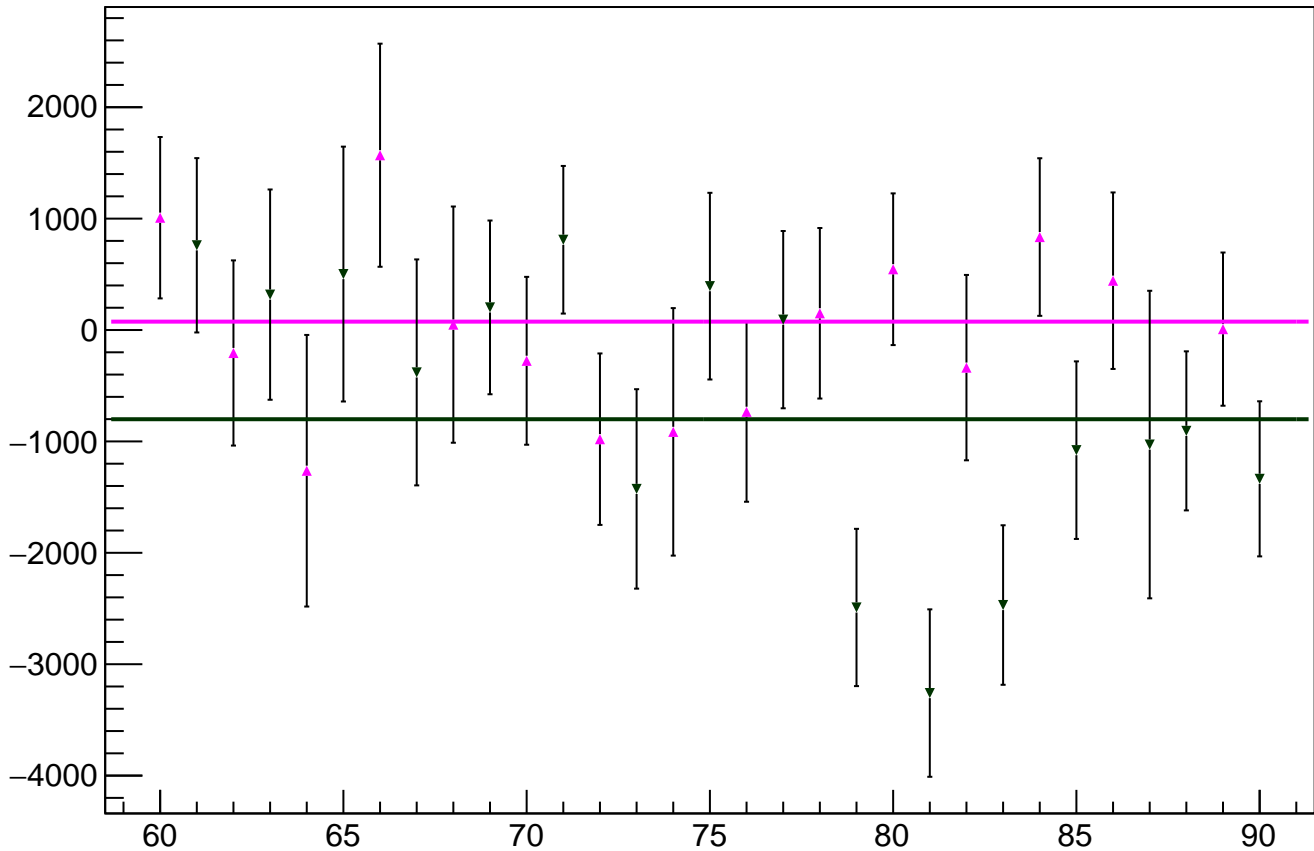
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 135.883+/-0.035  $\chi^2$ /NDF:11993.5/14

135.089+/-0.035  $\chi^2$ /NDF: 18916.5/15

135.883+/-0.035  $\chi^2$ /NDF: 11993.5/14

# asym\_usl\_correction\_mean vs slug



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

Left Out: -800.806+/-201.960  $\chi^2/\text{NDF}$ : 40.8/15

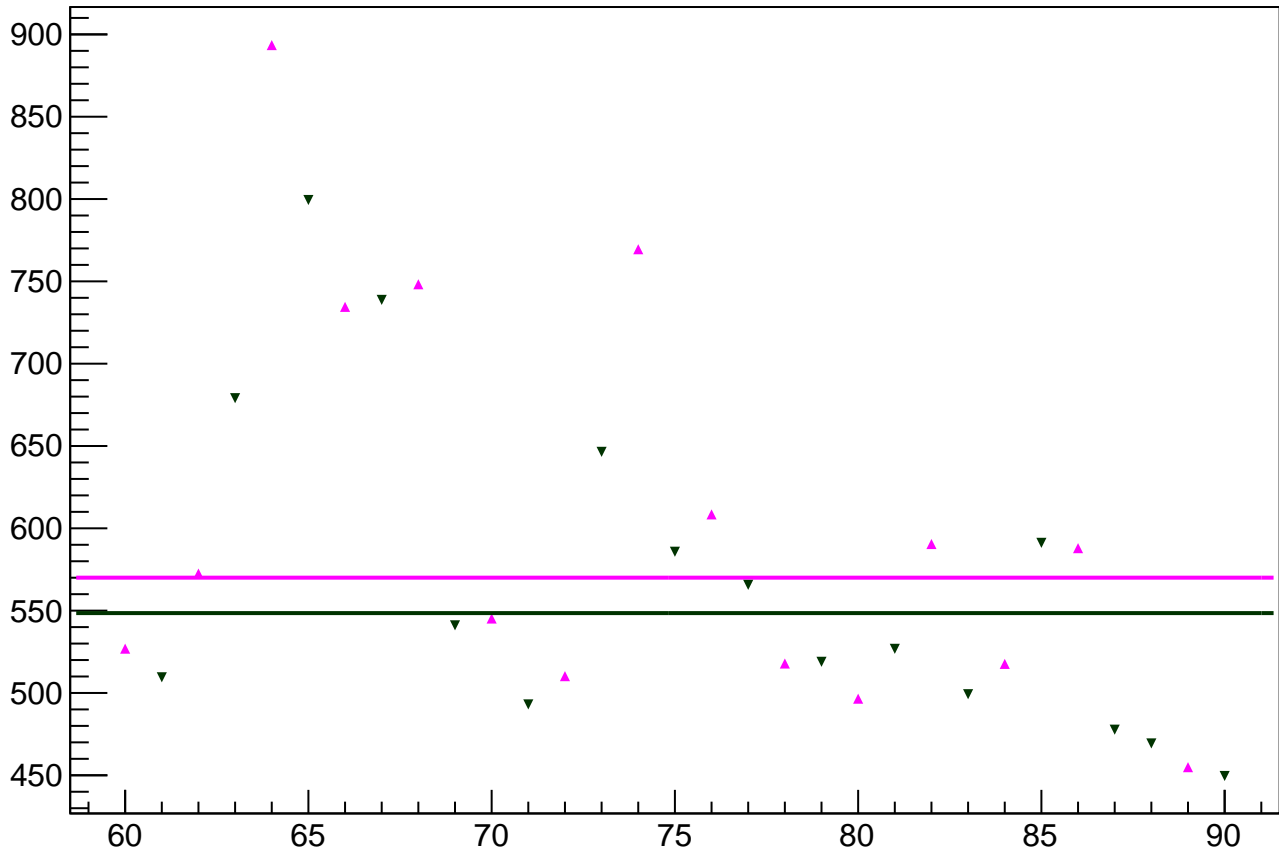
-800.806+/-201.960  $\chi^2/\text{NDF}$ : 40.8/15

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

75.251+/-209.792  $\chi^2/\text{NDF}$ : 11.2/14

Left In: 75.251+/-209.792  $\chi^2/\text{NDF}$ : 11.2/14

# asym\_usl\_correction\_rms vs slug



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

Left Out: 548.510+/-0.143  $\chi^2$ /NDF:343438.1/15

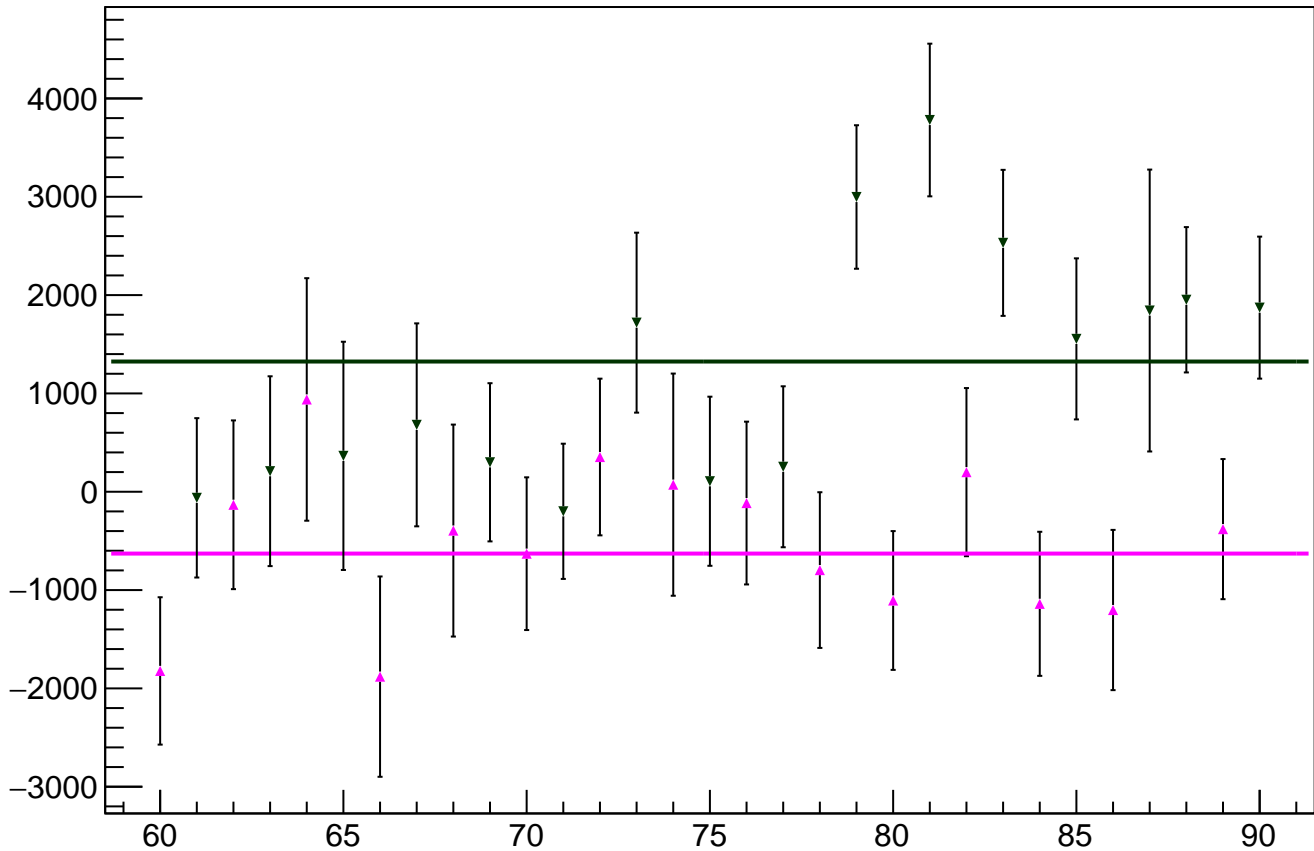
548.510+/-0.143  $\chi^2$ /NDF: 343438.1/15

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

570.030+/-0.148  $\chi^2$ /NDF: 443454.6/14

Left In: 570.030+/-0.148  $\chi^2$ /NDF:443454.6/14

# asym\_usl\_mean vs slug



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

Left Out: 1324.385+/-208.280  $\chi^2$ /NDF:35.2/15

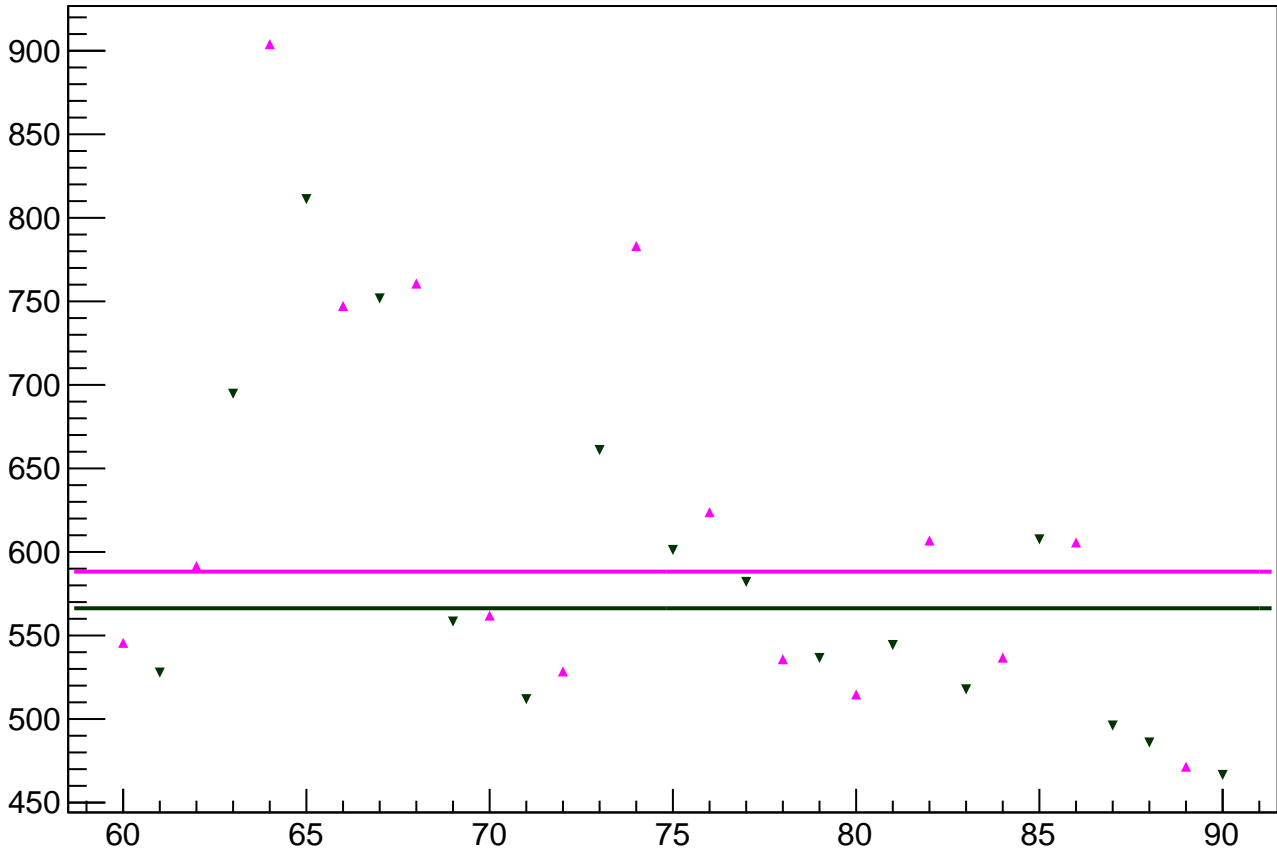
1324.385+/-208.280  $\chi^2$ /NDF: 35.2/15

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

-628.805+/-216.137  $\chi^2$ /NDF: 10.9/14

Left In: -628.805+/-216.137  $\chi^2$ /NDF:10.9/14

# asym\_usl\_rms vs slug



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

Left Out: 566.300+/-0.147  $\chi^2$ /NDF:316851.9/15

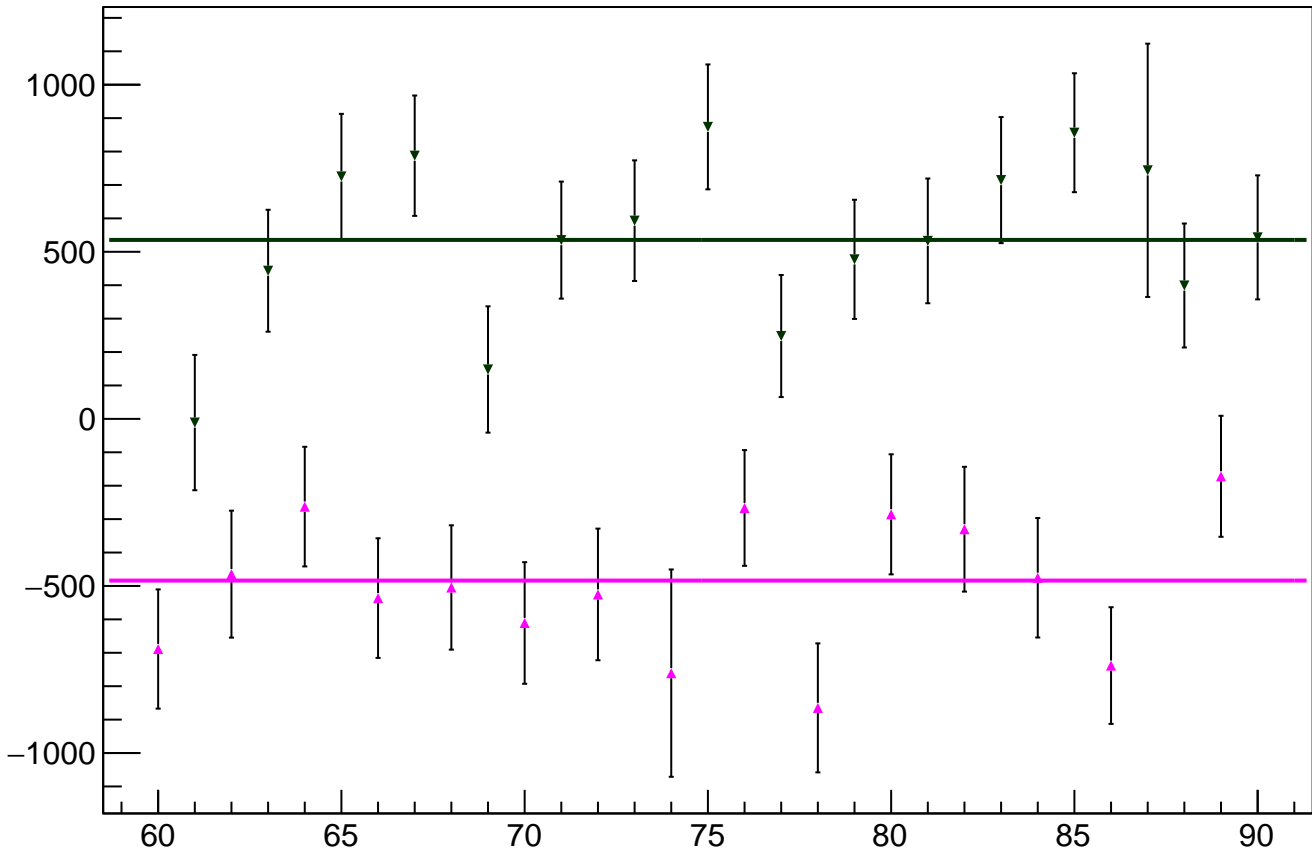
566.300+/-0.147  $\chi^2$ /NDF: 316851.9/15

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

Left In: 588.219+/-0.153  $\chi^2$ /NDF:410143.0/14

588.219+/-0.153  $\chi^2$ /NDF: 410143.0/14

# reg\_asym\_usr\_mean vs slug



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

Left Out: 535.534+/-47.215  $\chi^2/\text{NDF}$ :25.7/15

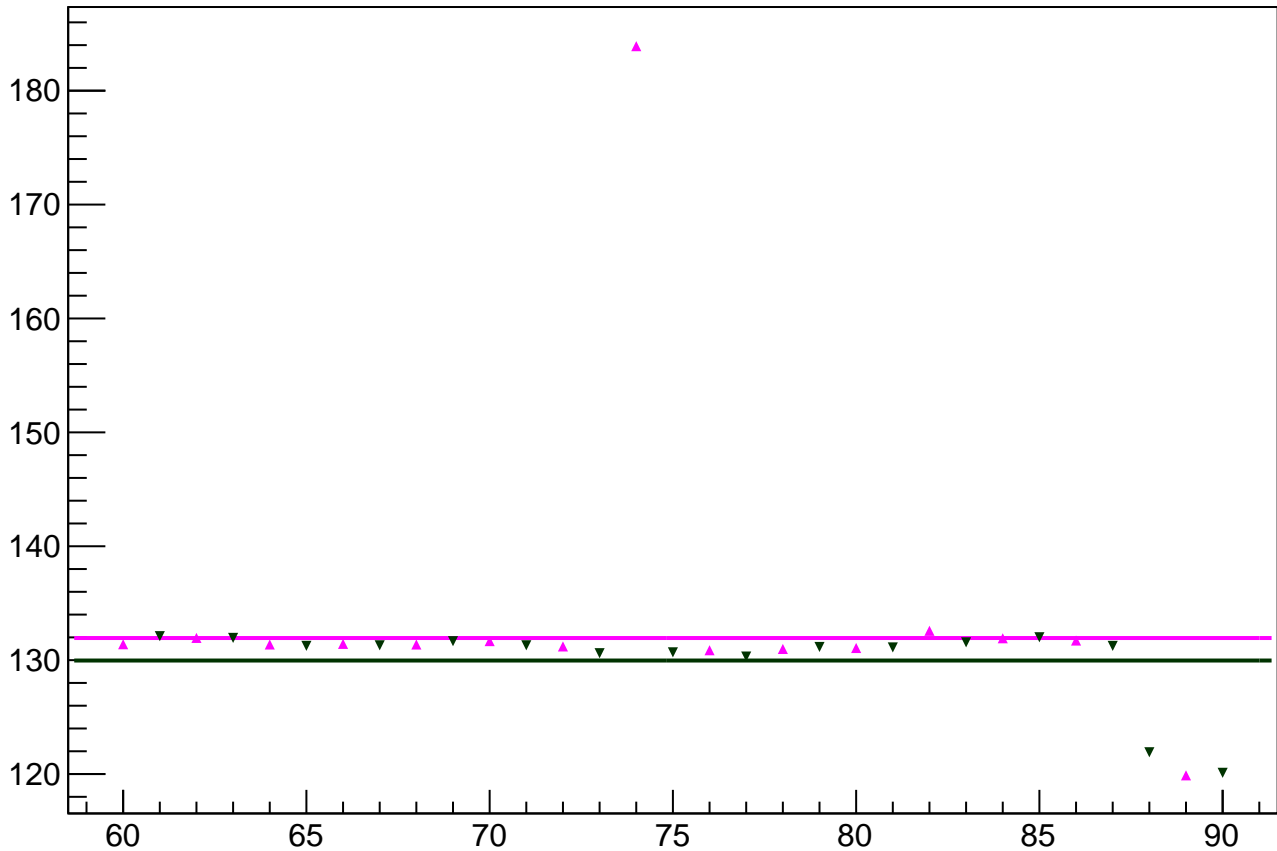
535.534+/-47.215  $\chi^2/\text{NDF}$ : 25.7/15

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

-483.876+/-48.152  $\chi^2/\text{NDF}$ : 16.7/14

Left In: -483.876+/-48.152  $\chi^2/\text{NDF}$ :16.7/14

# reg\_asym\_usr\_rms vs slug



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

Left Out: 129.967+/-0.033  $\chi^2$ /NDF:11013.9/15

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

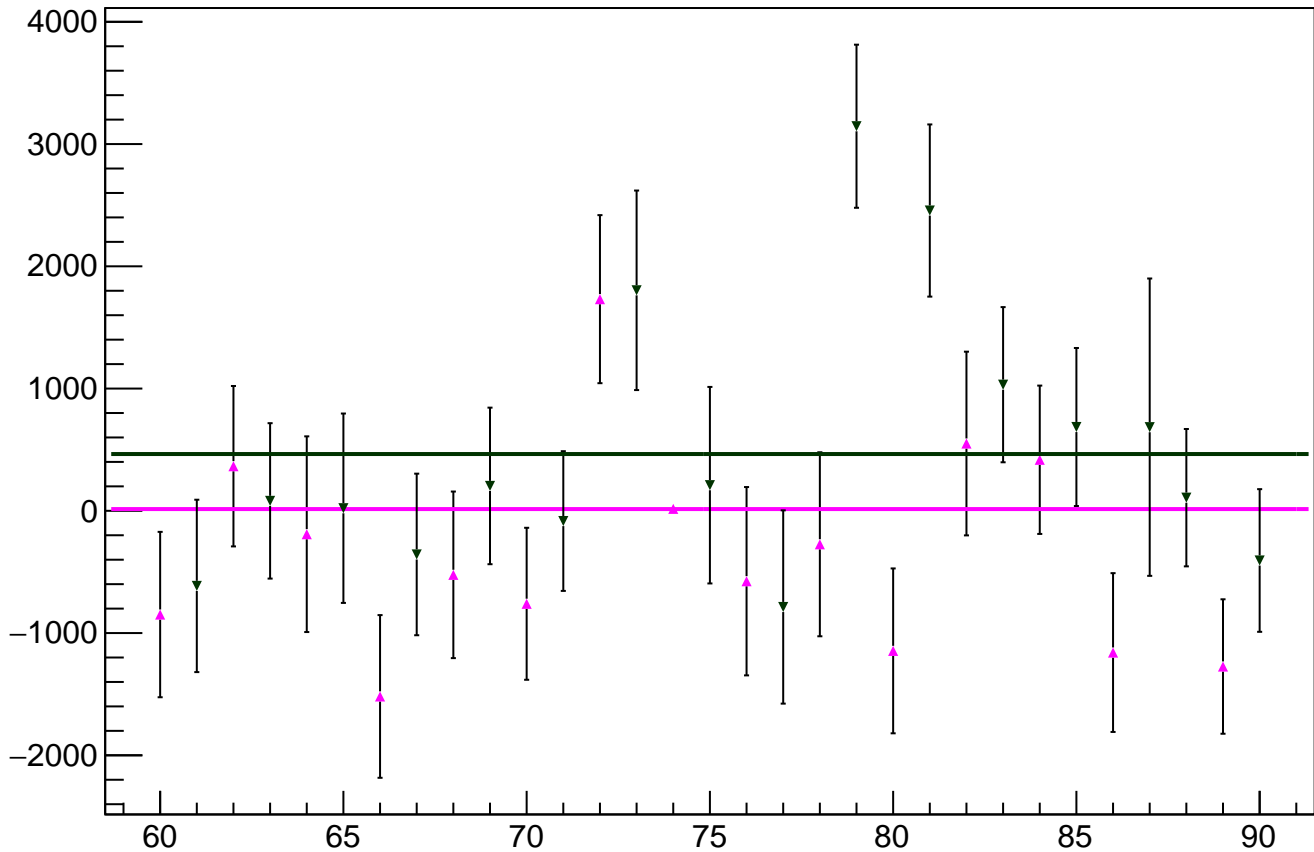
Left In: 131.942+/-0.034  $\chi^2$ /NDF:65295.9/14

129.967+/-0.033  $\chi^2$ /NDF: 11013.9/15

131.942+/-0.034  $\chi^2$ /NDF: 65295.9/14



# asym\_usr\_correction\_mean vs slug



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

Left Out: 464.431+/-170.216  $\chi^2$ /NDF:38.7/15

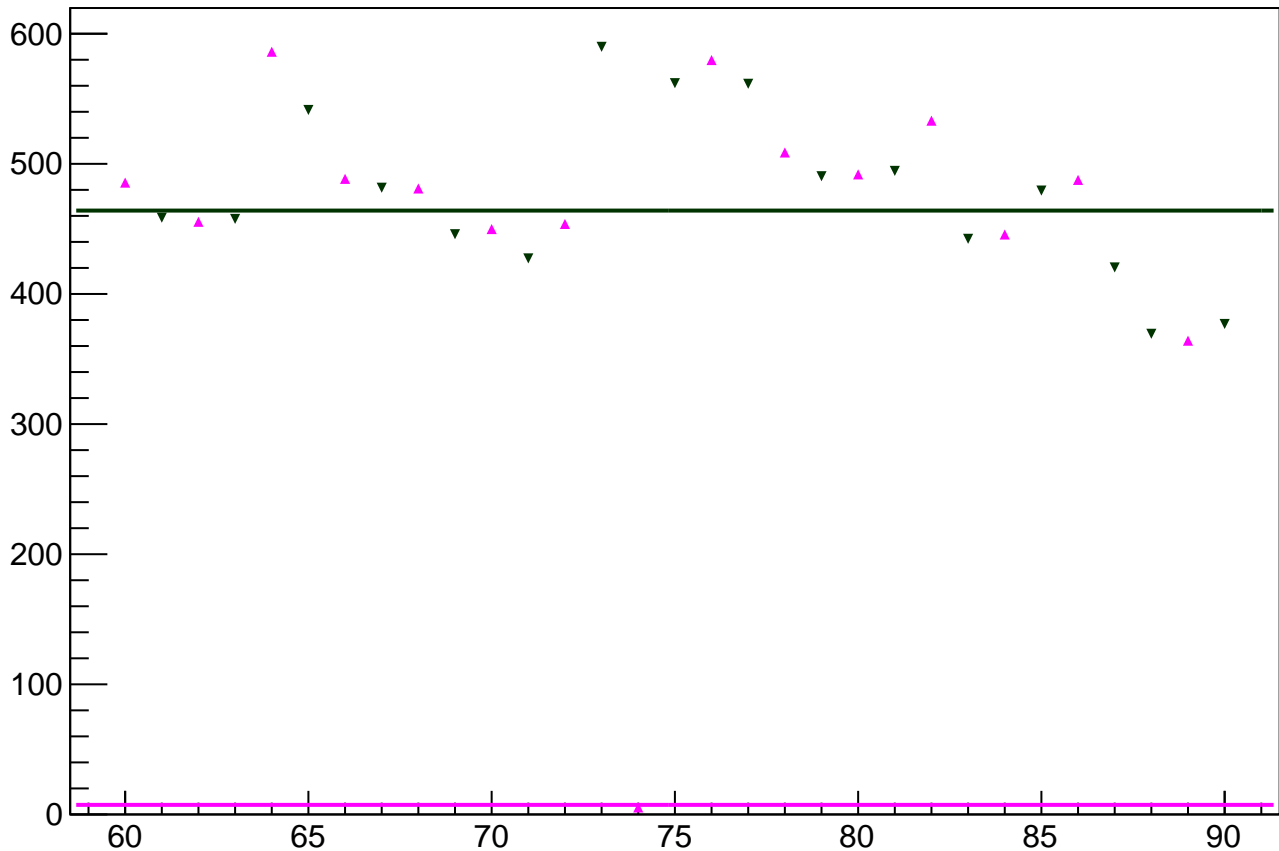
464.431+/-170.216  $\chi^2$ /NDF: 38.7/15

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

14.272+/-11.602  $\chi^2$ /NDF: 29.1/14

Left In: 14.272+/-11.602  $\chi^2$ /NDF:29.1/14

# asym\_usr\_correction\_rms vs slug



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

Left Out: 464.086+/-0.120  $\chi^2/\text{NDF}$ :253509.8/15

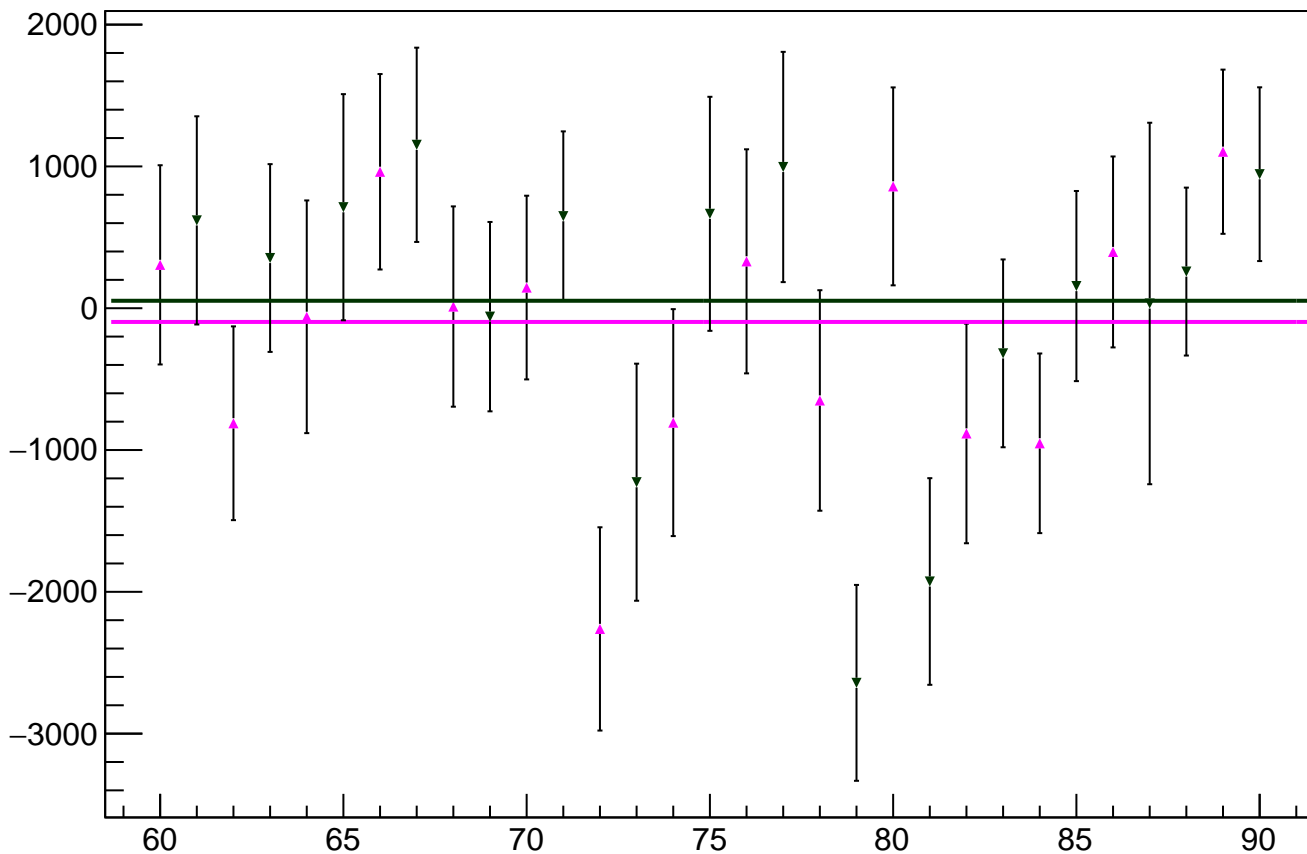
464.086+/-0.120  $\chi^2/\text{NDF}$ : 253509.8/15

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

7.360+/-0.008  $\chi^2/\text{NDF}$ : 13888721.2/14

Left In: 7.360+/-0.008  $\chi^2/\text{NDF}$ :13888721.2/14

# asym\_usr\_mean vs slug



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

Left Out: 52.556+/-177.018  $\chi^2/\text{NDF}$ :34.5/15

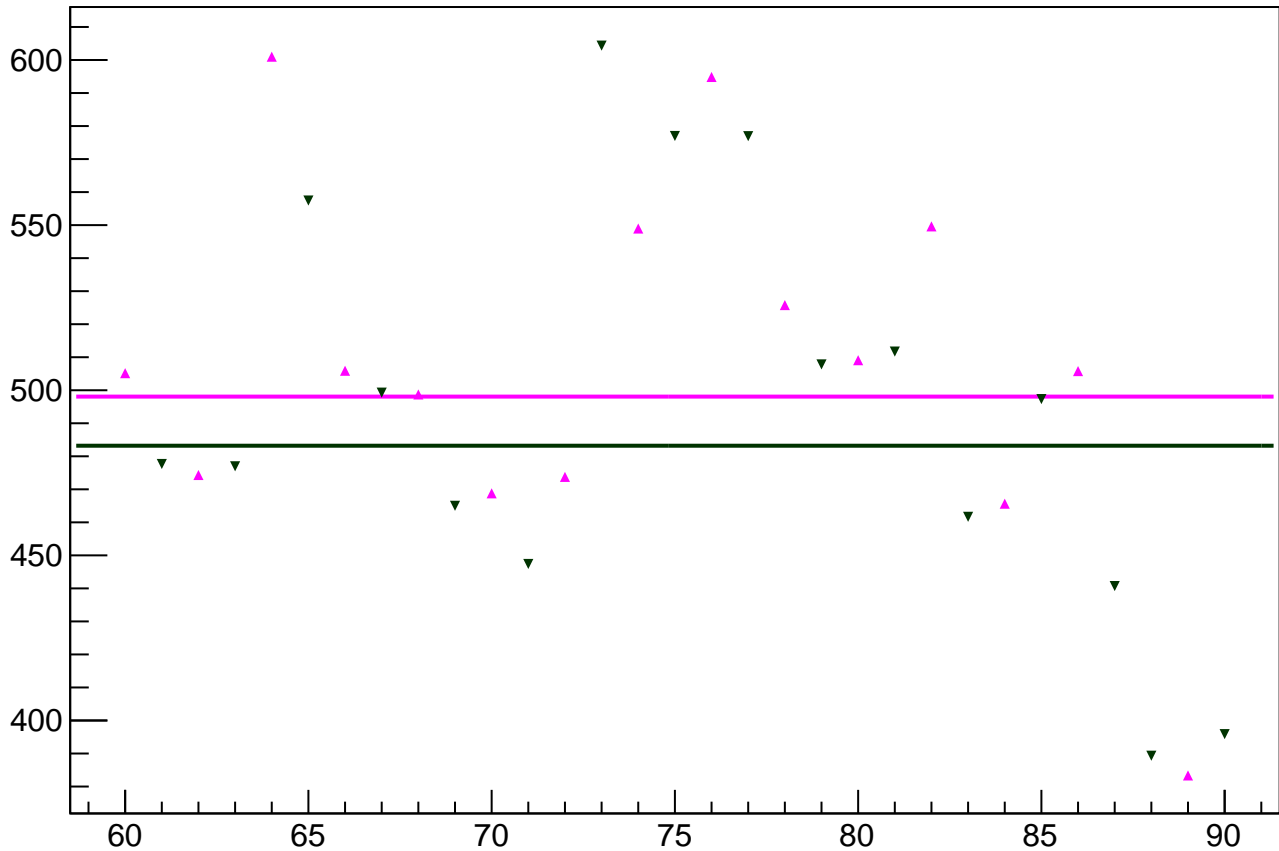
52.556+/-177.018  $\chi^2/\text{NDF}$ : 34.5/15

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

-96.779+/-181.627  $\chi^2/\text{NDF}$ : 24.2/14

Left In: -96.779+/-181.627  $\chi^2/\text{NDF}$ :24.2/14

# asym\_usr\_rms vs slug



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

Left Out: 483.203+/-0.125  $\chi^2$ /NDF:223620.3/15

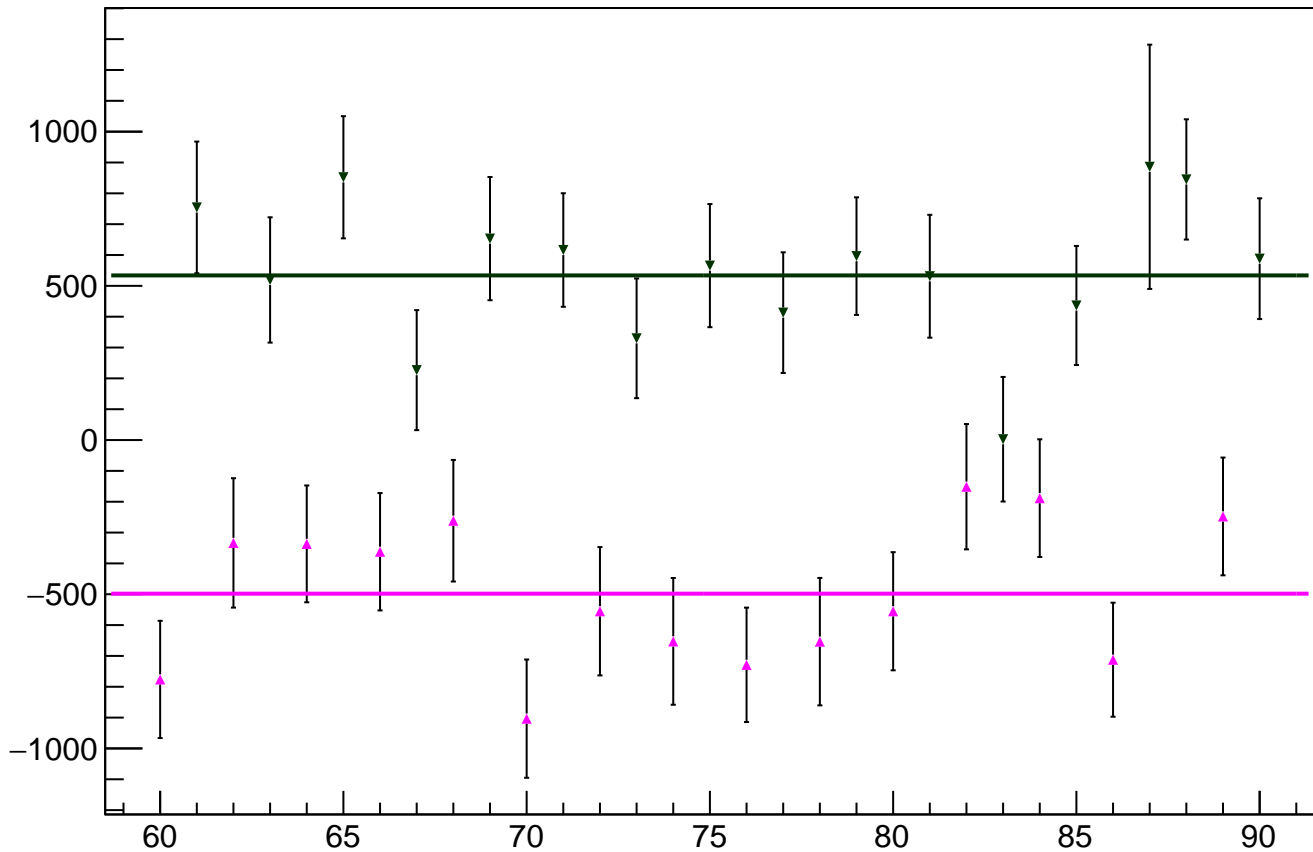
483.203+/-0.125  $\chi^2$ /NDF: 223620.3/15

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

Left In: 498.077+/-0.128  $\chi^2$ /NDF:174765.6/14

498.077+/-0.128  $\chi^2$ /NDF: 174765.6/14

# reg\_asym\_dsl\_mean vs slug



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

Left Out: 533.839+/-50.431  $\chi^2$ /NDF:18.9/15

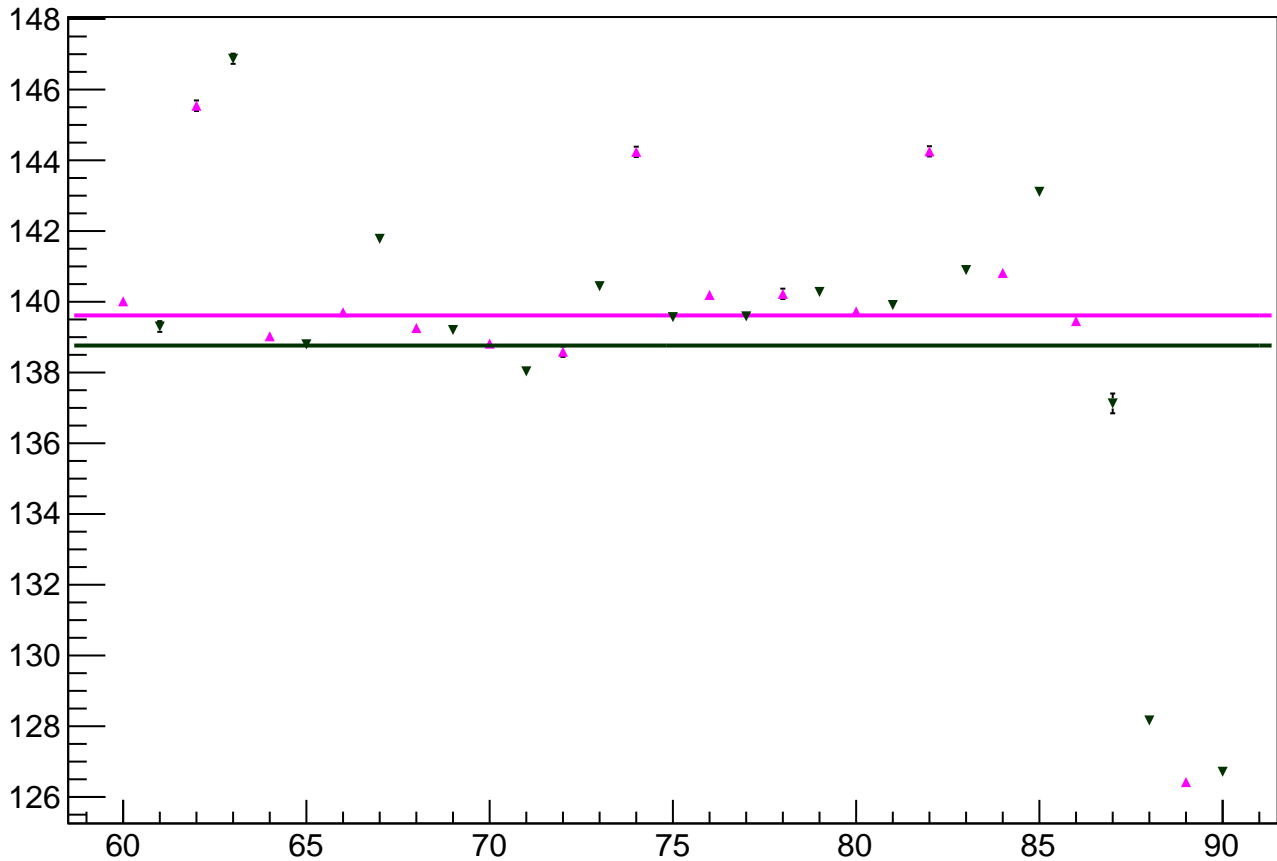
533.839+/-50.431  $\chi^2$ /NDF: 18.9/15

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

-498.143+/-50.402  $\chi^2$ /NDF: 21.4/14

Left In: -498.143+/-50.402  $\chi^2$ /NDF:21.4/14

# reg\_asym\_dsl\_rms vs slug



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

Left Out: 138.763+/-0.036  $\chi^2$ /NDF:18884.3/15

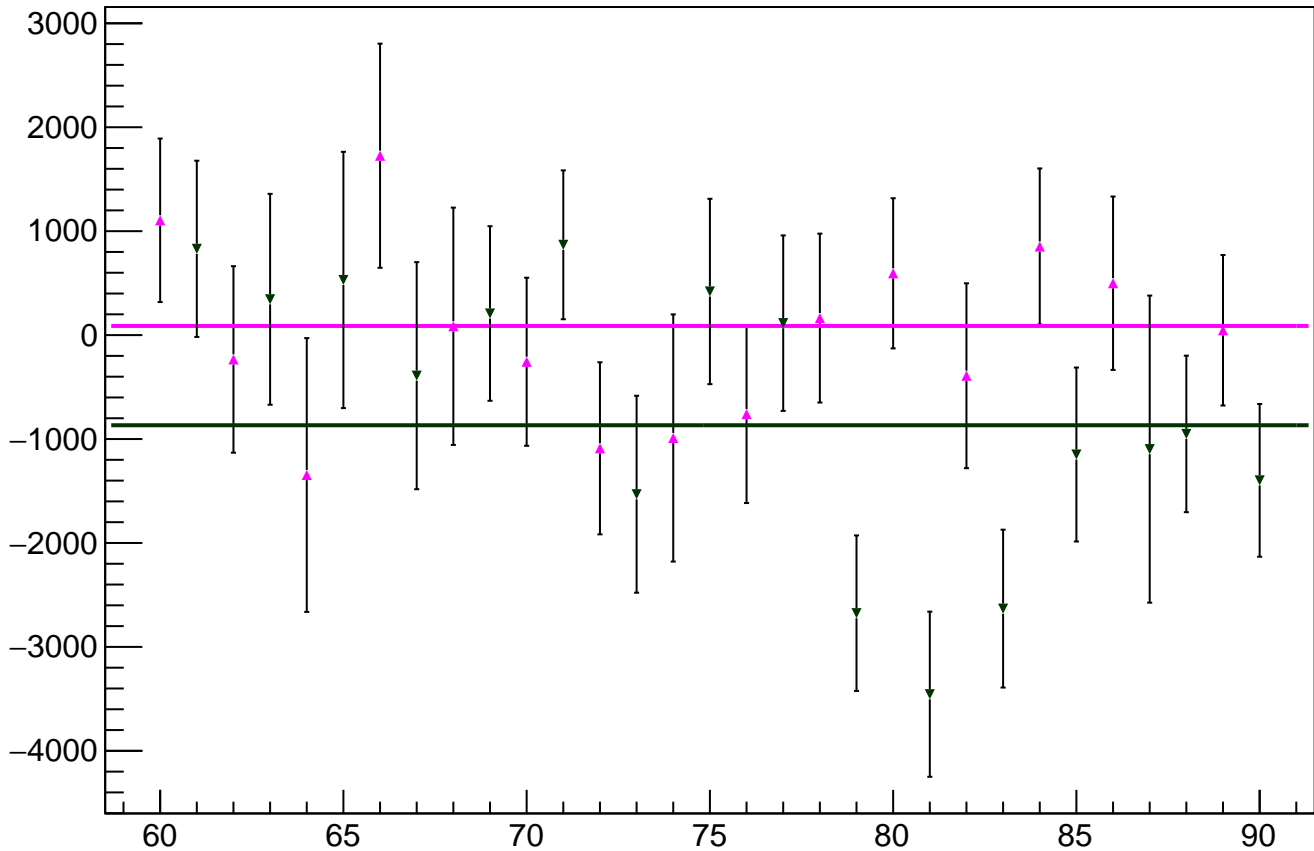
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 139.614+/-0.036  $\chi^2$ /NDF:13438.4/14

138.763+/-0.036  $\chi^2$ /NDF: 18884.3/15

139.614+/-0.036  $\chi^2$ /NDF: 13438.4/14

# asym\_dsl\_correction\_mean vs slug



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

-867.341+/-215.130  $\chi^2$ /NDF: 40.9/15

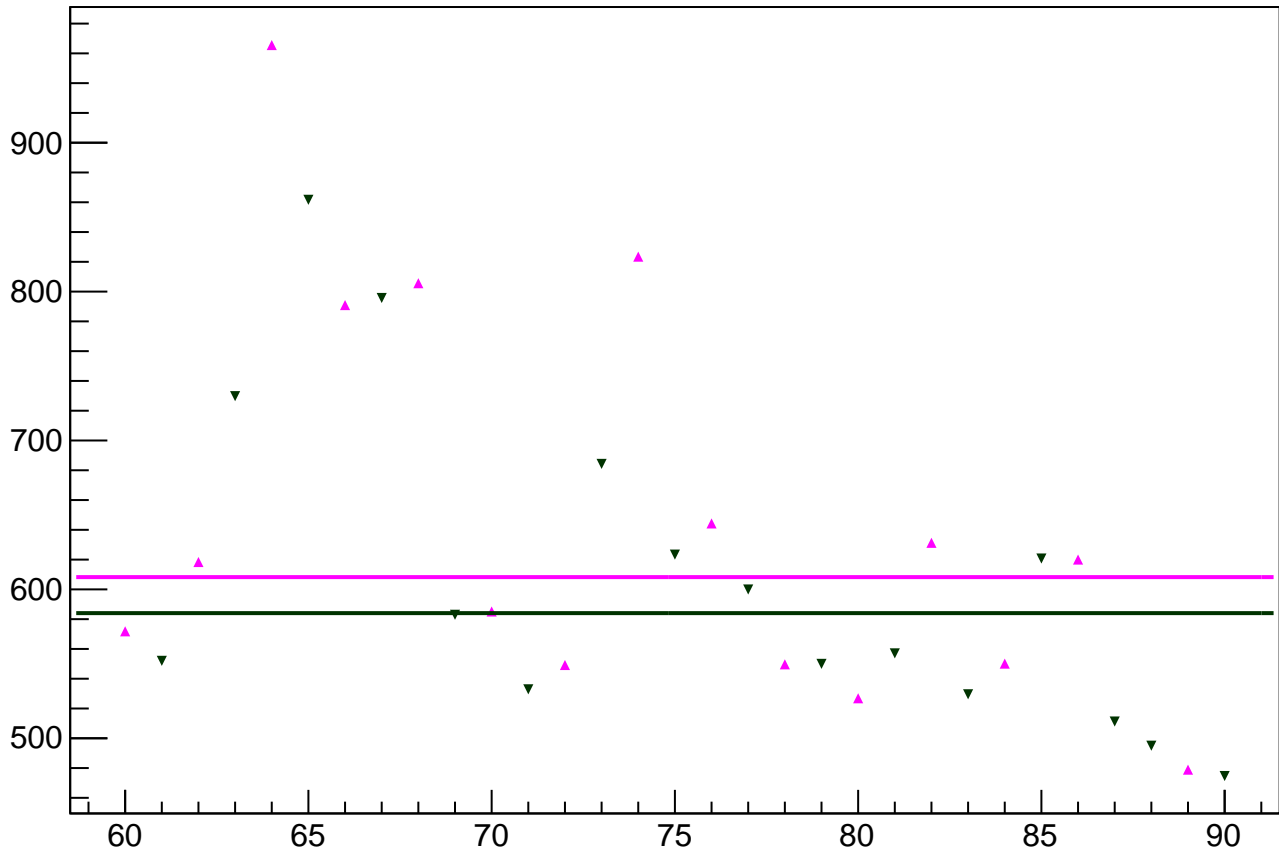
Left Out: -867.341+/-215.130  $\chi^2$ /NDF:40.9/15

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

88.226+/-223.957  $\chi^2$ /NDF: 11.4/14

Left In: 88.226+/-223.957  $\chi^2$ /NDF:11.4/14

# asym\_dsl\_correction\_rms vs slug



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

Left Out: 584.055+/-0.152  $\chi^2$ /NDF:355513.2/15

584.055+/-0.152  $\chi^2$ /NDF: 355513.2/15

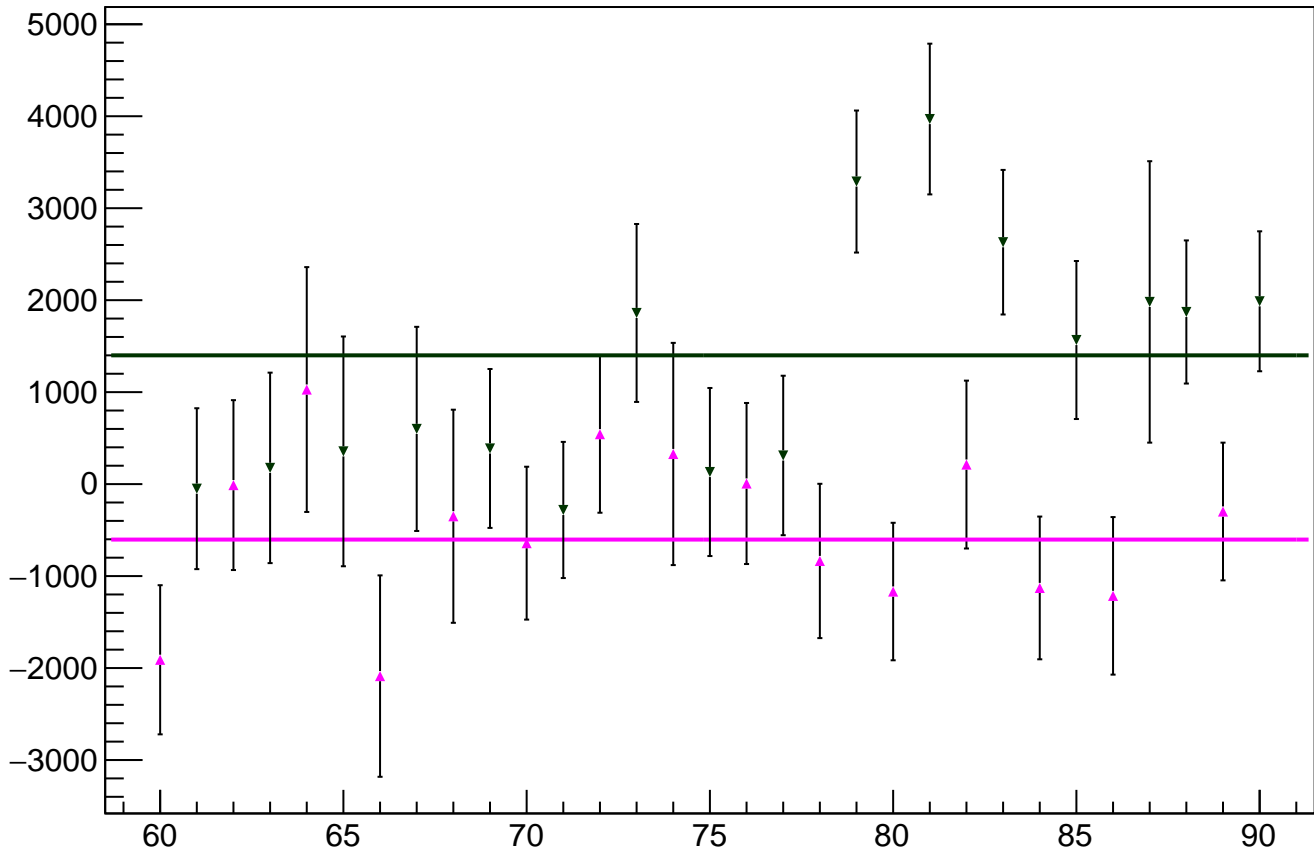
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

608.240+/-0.158  $\chi^2$ /NDF: 463079.8/14

Left In: 608.240+/-0.158  $\chi^2$ /NDF:463079.8/14



# asym\_dsl\_mean vs slug



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

Left Out: 1400.111+/-221.409  $\chi^2/\text{NDF}$ :35.0/15

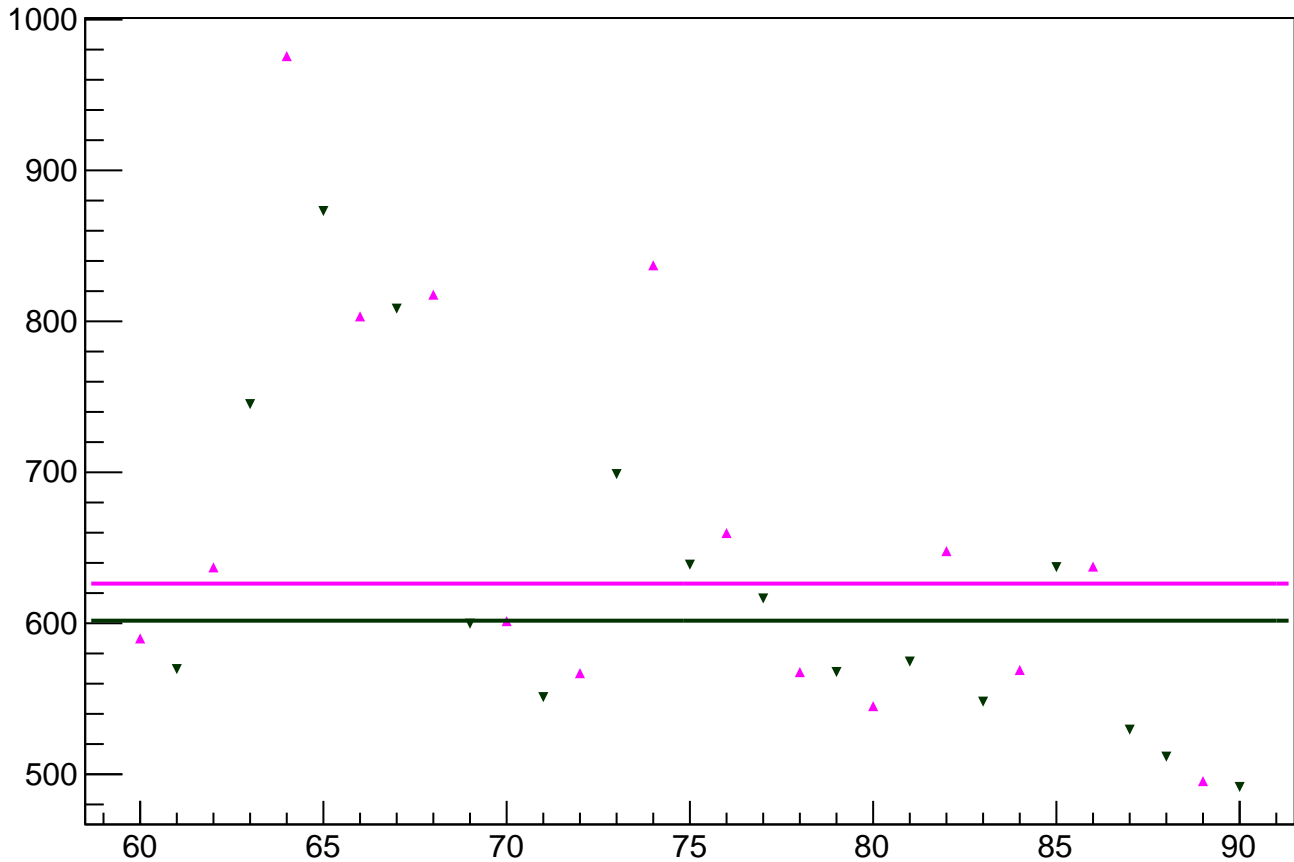
1400.111+/-221.409  $\chi^2/\text{NDF}$ : 35.0/15

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

-603.115+/-230.253  $\chi^2/\text{NDF}$ : 11.9/14

Left In: -603.115+/-230.253  $\chi^2/\text{NDF}$ :11.9/14

# asym\_dsl\_rms vs slug



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

Left Out: 601.730+/-0.157  $\chi^2$ /NDF:330121.6/15

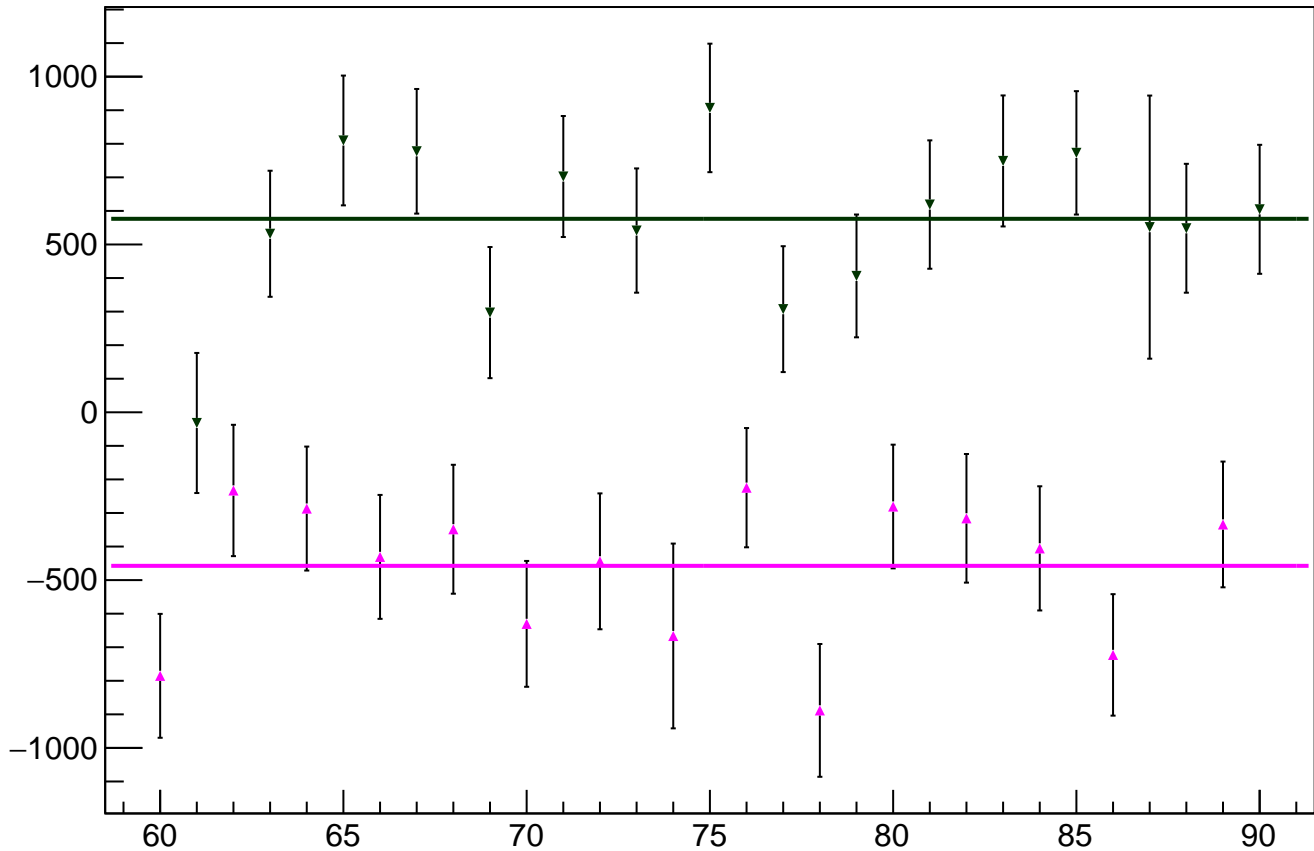
601.730+/-0.157  $\chi^2$ /NDF: 330121.6/15

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

Left In: 626.287+/-0.163  $\chi^2$ /NDF:430942.3/14

626.287+/-0.163  $\chi^2$ /NDF: 430942.3/14

# reg\_asym\_dsr\_mean vs slug



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

576.487+/-48.639  $\chi^2/\text{NDF}$ : 21.7/15

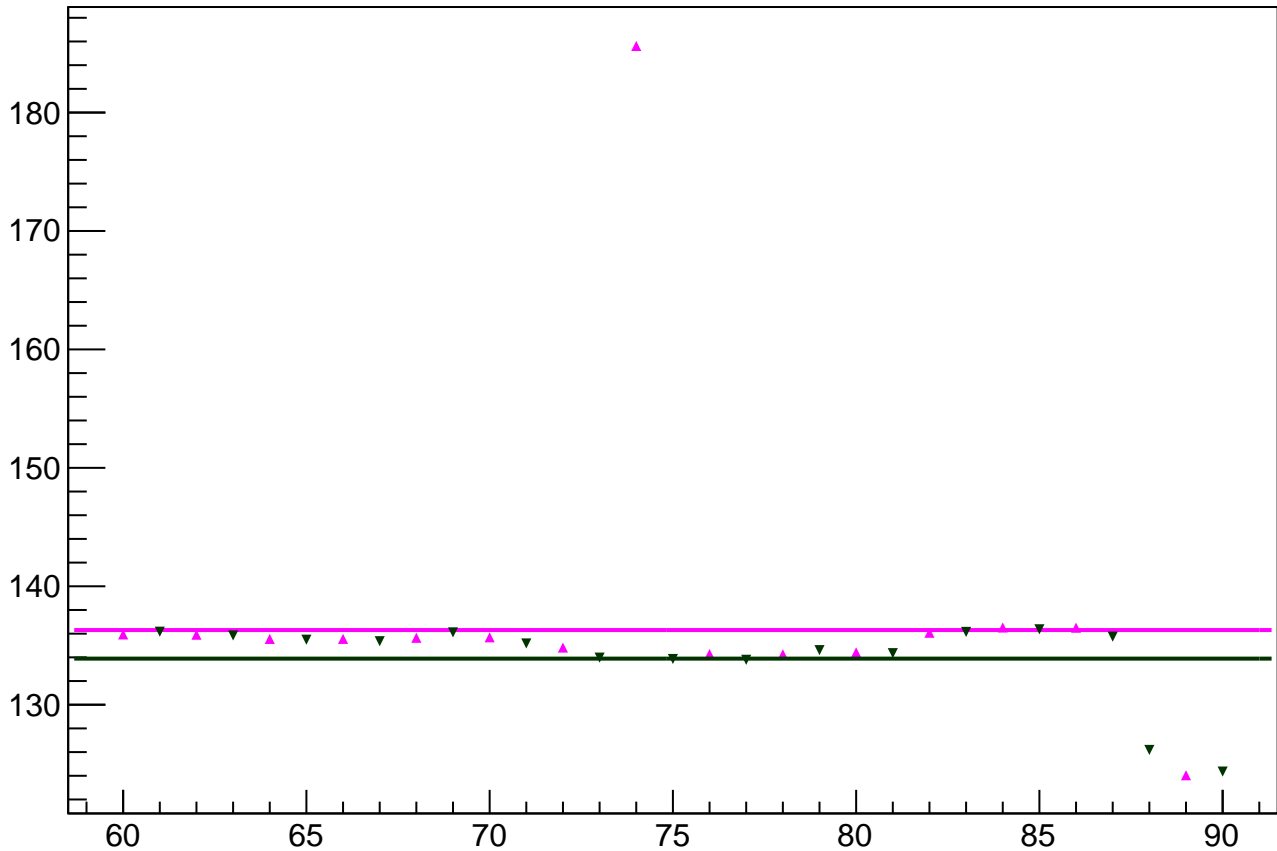
Left Out: 576.487+/-48.639  $\chi^2/\text{NDF}$ :21.7/15

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

-457.477+/-49.419  $\chi^2/\text{NDF}$ : 17.7/14

Left In: -457.477+/-49.419  $\chi^2/\text{NDF}$ :17.7/14

# reg\_asym\_dsr\_rms vs slug



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

Left Out: 133.893+/-0.034  $\chi^2$ /NDF:9941.4/15

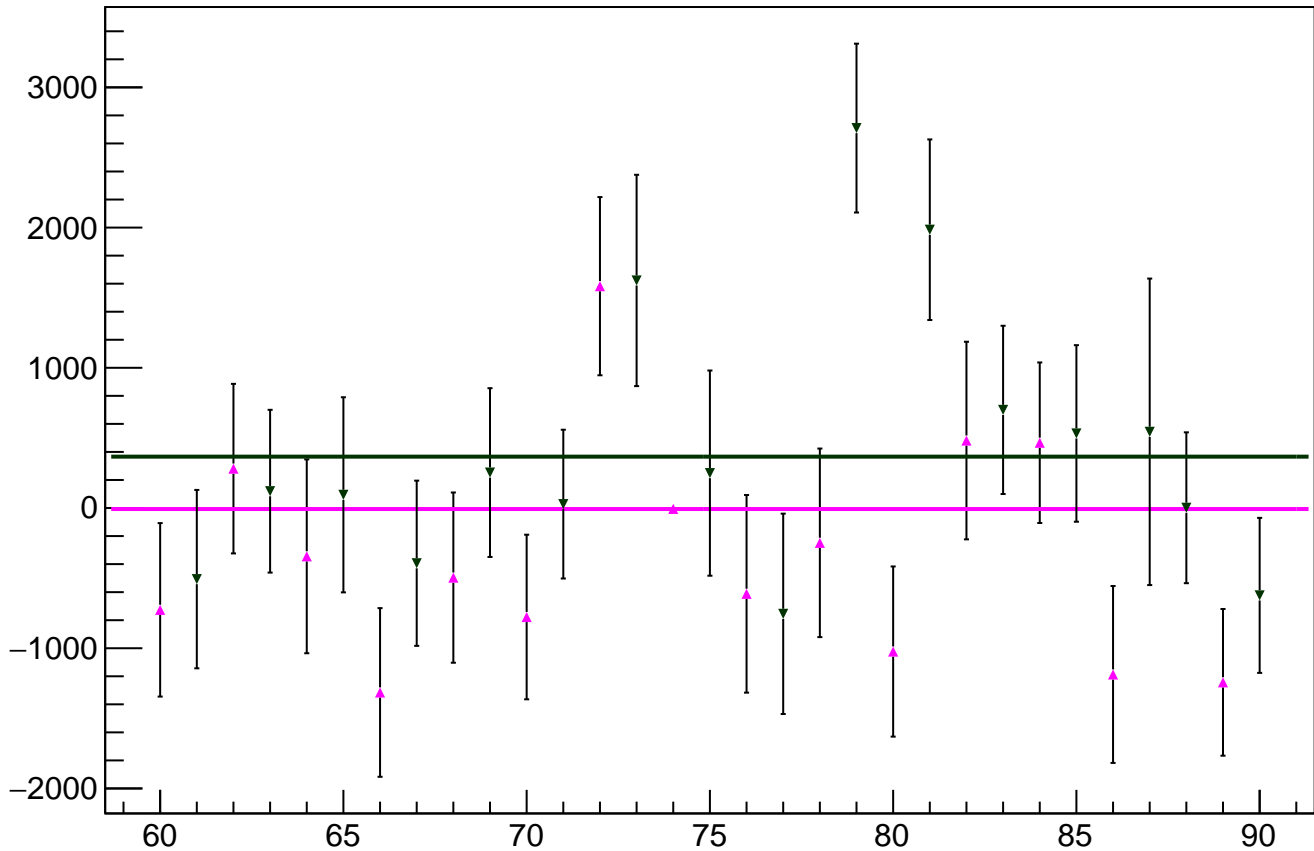
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 136.304+/-0.035  $\chi^2$ /NDF:73676.7/14

133.893+/-0.034  $\chi^2$ /NDF: 9941.4/15

136.304+/-0.035  $\chi^2$ /NDF: 73676.7/14

# asym\_dsr\_correction\_mean vs slug



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

366.394+/-157.476  $\chi^2$ /NDF: 35.1/15

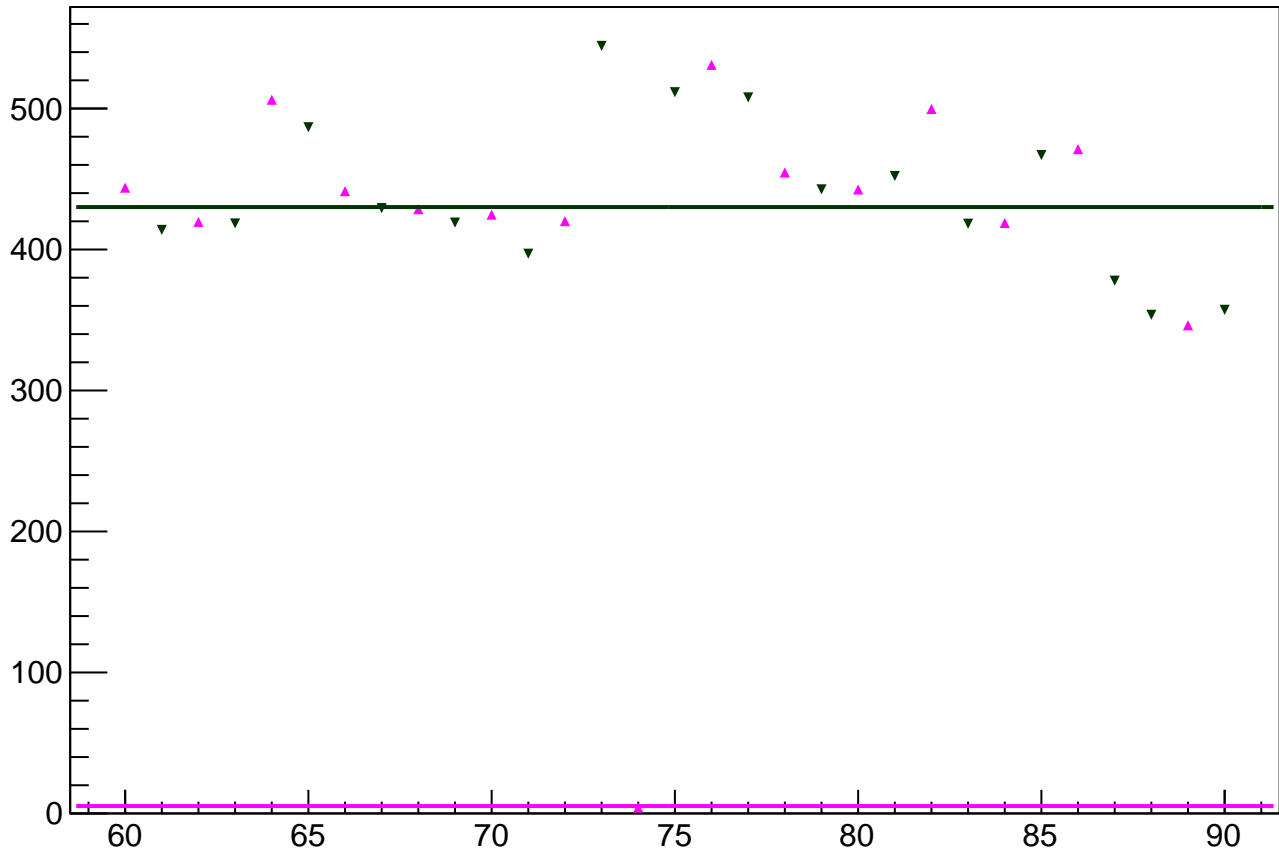
Left Out: 366.394+/-157.476  $\chi^2$ /NDF:35.1/15

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

-7.102+/-7.993  $\chi^2$ /NDF: 29.1/14

Left In: -7.102+/-7.993  $\chi^2$ /NDF:29.1/14

# asym\_dsr\_correction\_rms vs slug



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

Left Out: 430.105+/-0.111  $\chi^2$ /NDF:208865.9/15

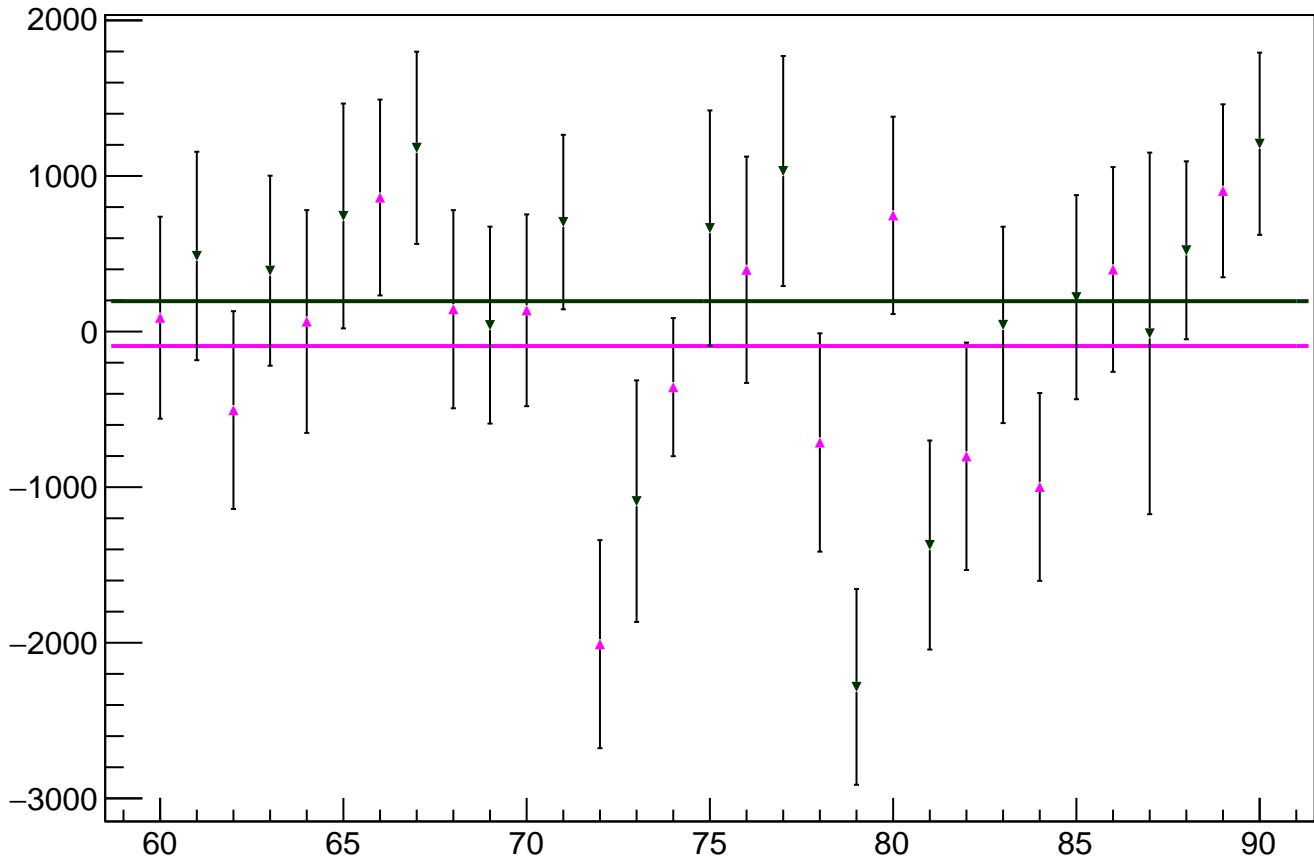
430.105+/-0.111  $\chi^2$ /NDF: 208865.9/15

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

5.261+/-0.006  $\chi^2$ /NDF: 13940810.1/14

Left In: 5.261+/-0.006  $\chi^2$ /NDF:13940810.1/14

# asym\_dsr\_mean vs slug



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

195.334+/-165.174  $\chi^2/\text{NDF}$ : 33.1/15

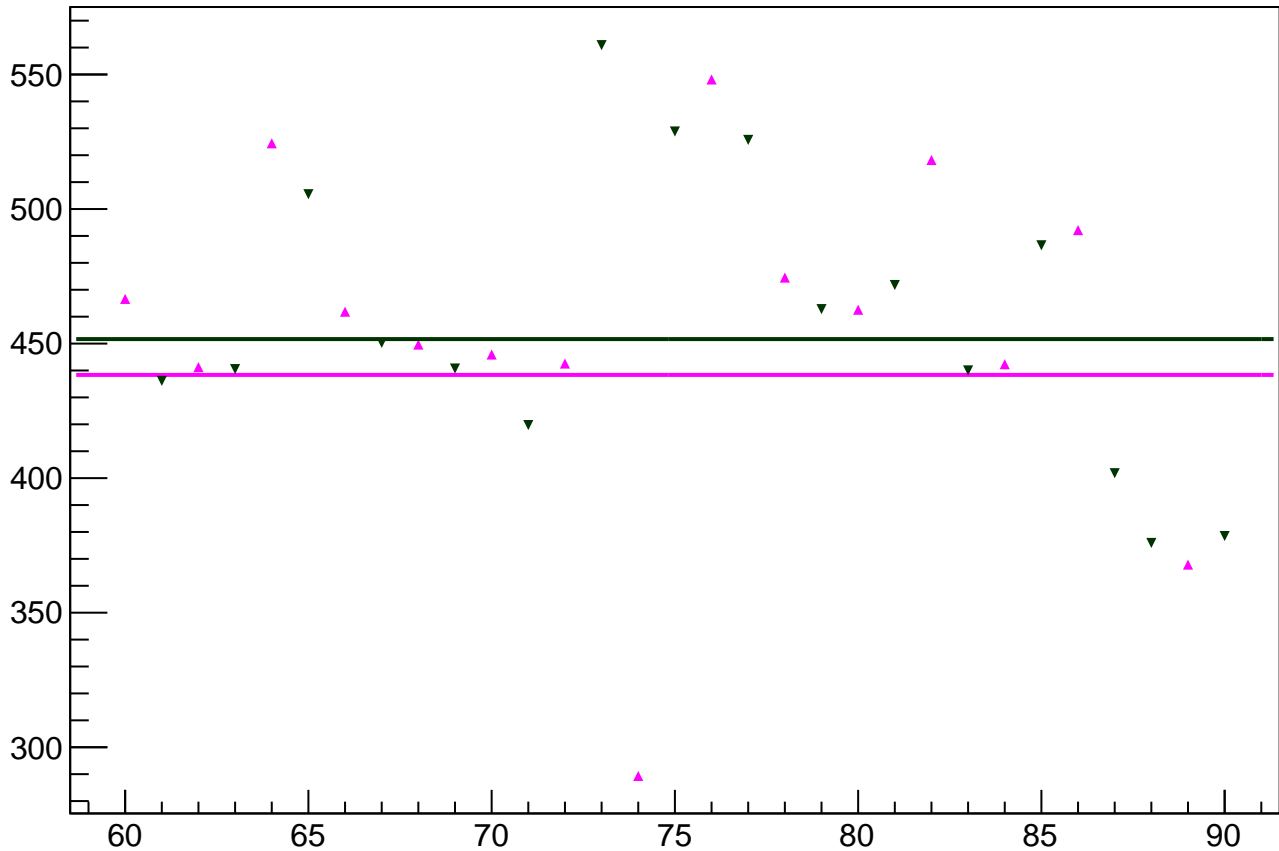
Left Out: 195.334+/-165.174  $\chi^2/\text{NDF}$ : 33.1/15

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

-92.985+/-161.548  $\chi^2/\text{NDF}$ : 21.7/14

Left In: -92.985+/-161.548  $\chi^2/\text{NDF}$ : 21.7/14

# asym\_dsr\_rms vs slug



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

Left Out: 451.668+/-0.117  $\chi^2/\text{NDF}$ : 179192.7/15

451.668+/-0.117  $\chi^2/\text{NDF}$ : 179192.7/15

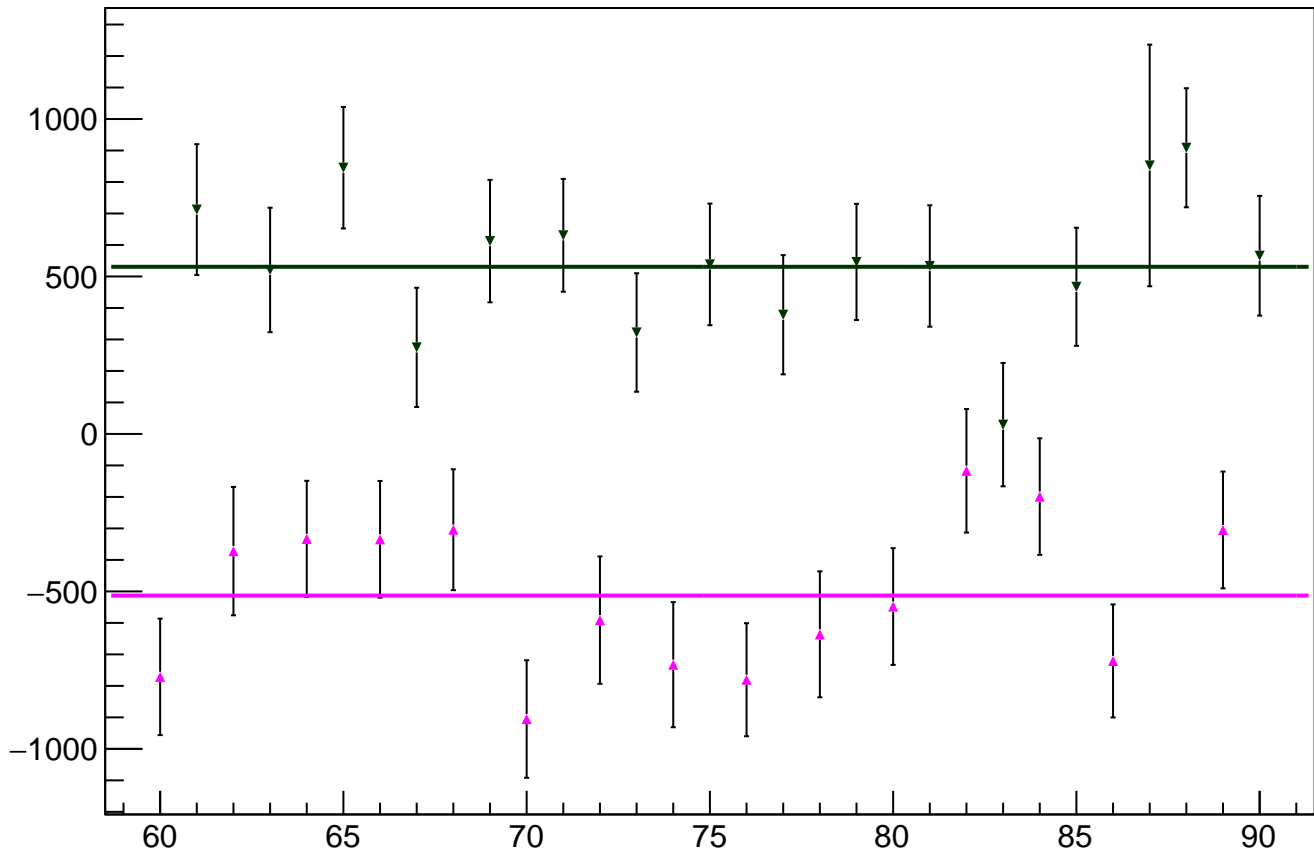
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 438.354+/-0.114  $\chi^2/\text{NDF}$ : 385426.6/14

438.354+/-0.114  $\chi^2/\text{NDF}$ : 385426.6/14



# reg\_asym\_left\_avg\_mean vs slug



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

Left Out: 530.701+/-48.946  $\chi^2/\text{NDF}$ : 19.0/15

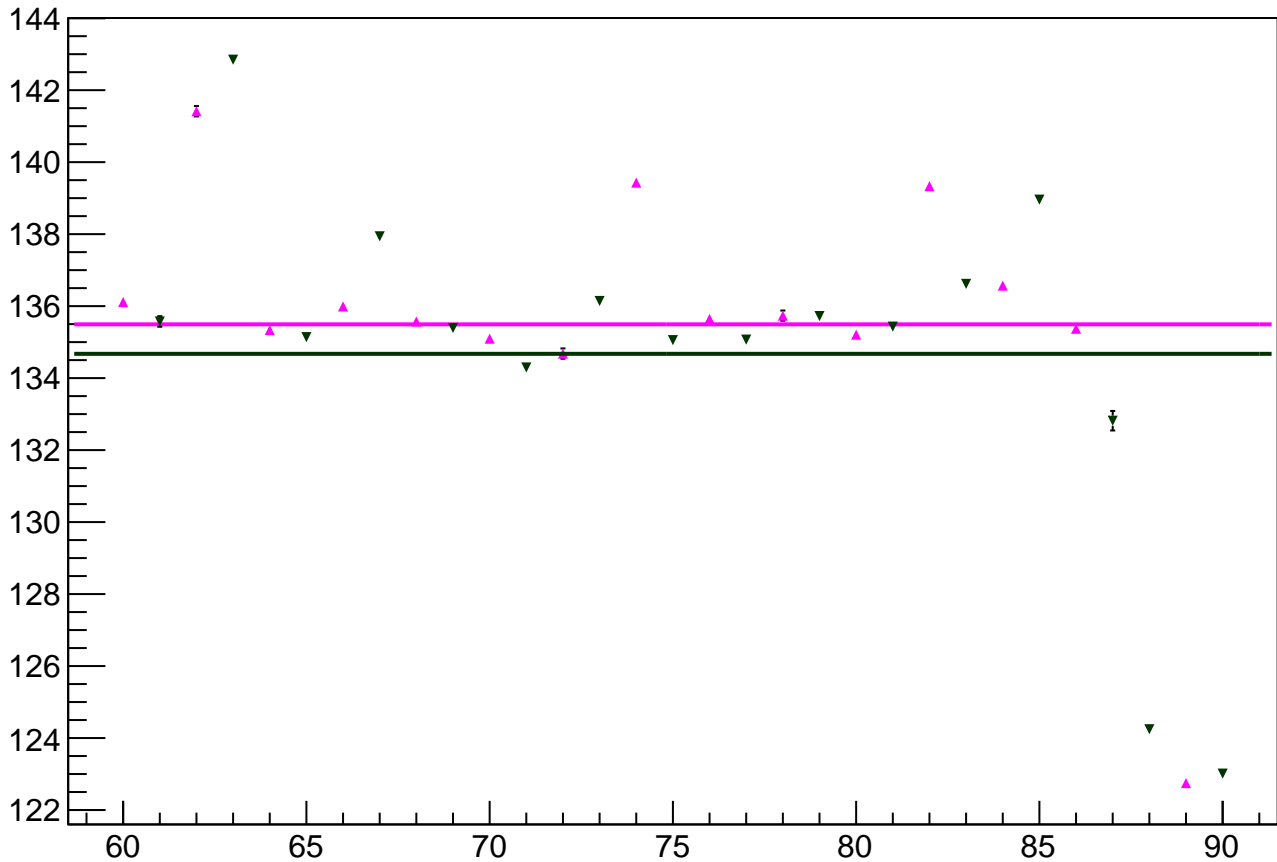
530.701+/-48.946  $\chi^2/\text{NDF}$ : 19.0/15

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

-513.232+/-48.913  $\chi^2/\text{NDF}$ : 23.5/14

Left In: -513.232+/-48.913  $\chi^2/\text{NDF}$ : 23.5/14

# reg\_asym\_left\_avg\_rms vs slug



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

Left Out: 134.675+/-0.035  $\chi^2/\text{NDF}$ : 19240.4/15

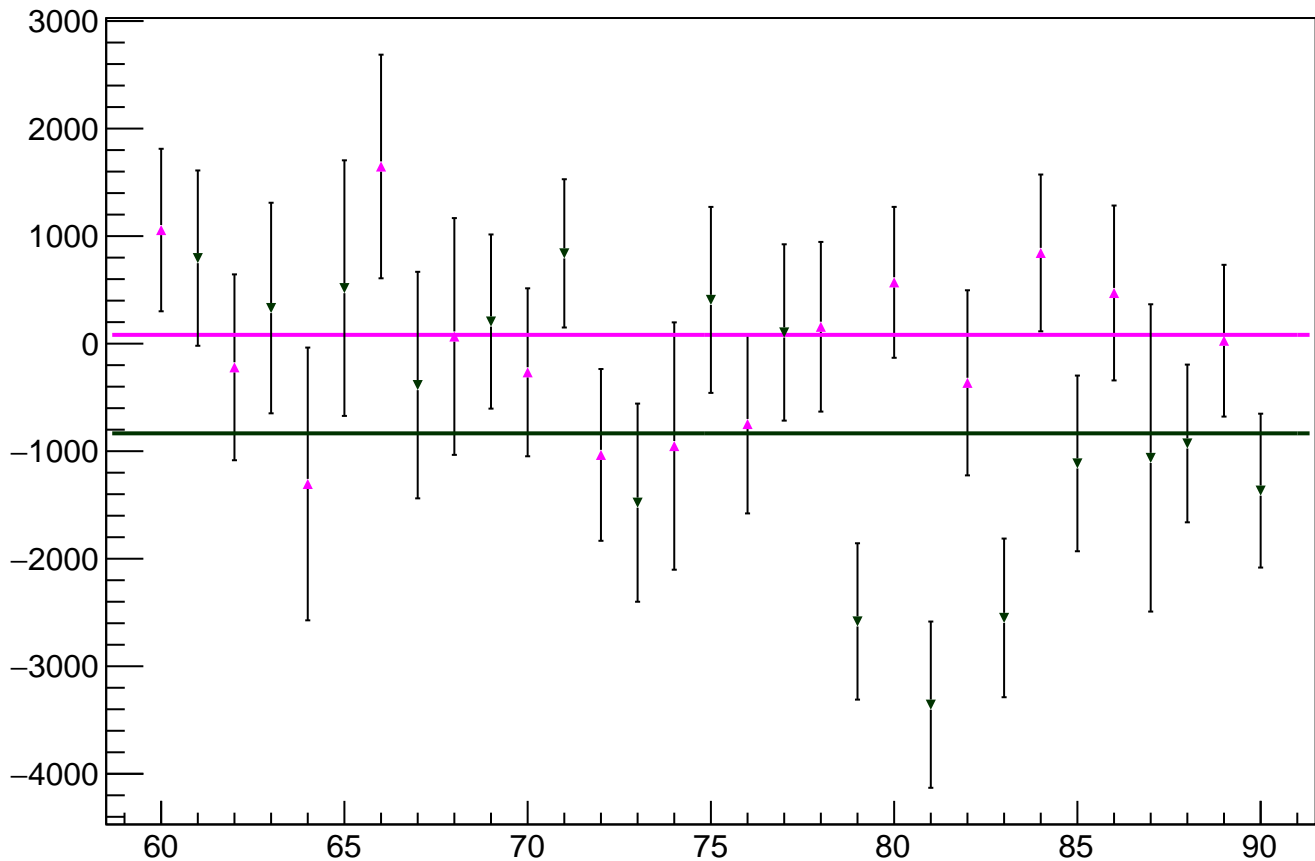
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 135.494+/-0.035  $\chi^2/\text{NDF}$ : 12851.5/14

134.675+/-0.035  $\chi^2/\text{NDF}$ : 19240.4/15

135.494+/-0.035  $\chi^2/\text{NDF}$ : 12851.5/14

# asym\_left\_avg\_correction\_mean vs slug



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

Left Out: -834.140+/-208.541  $\chi^2$ /NDF:40.9/15

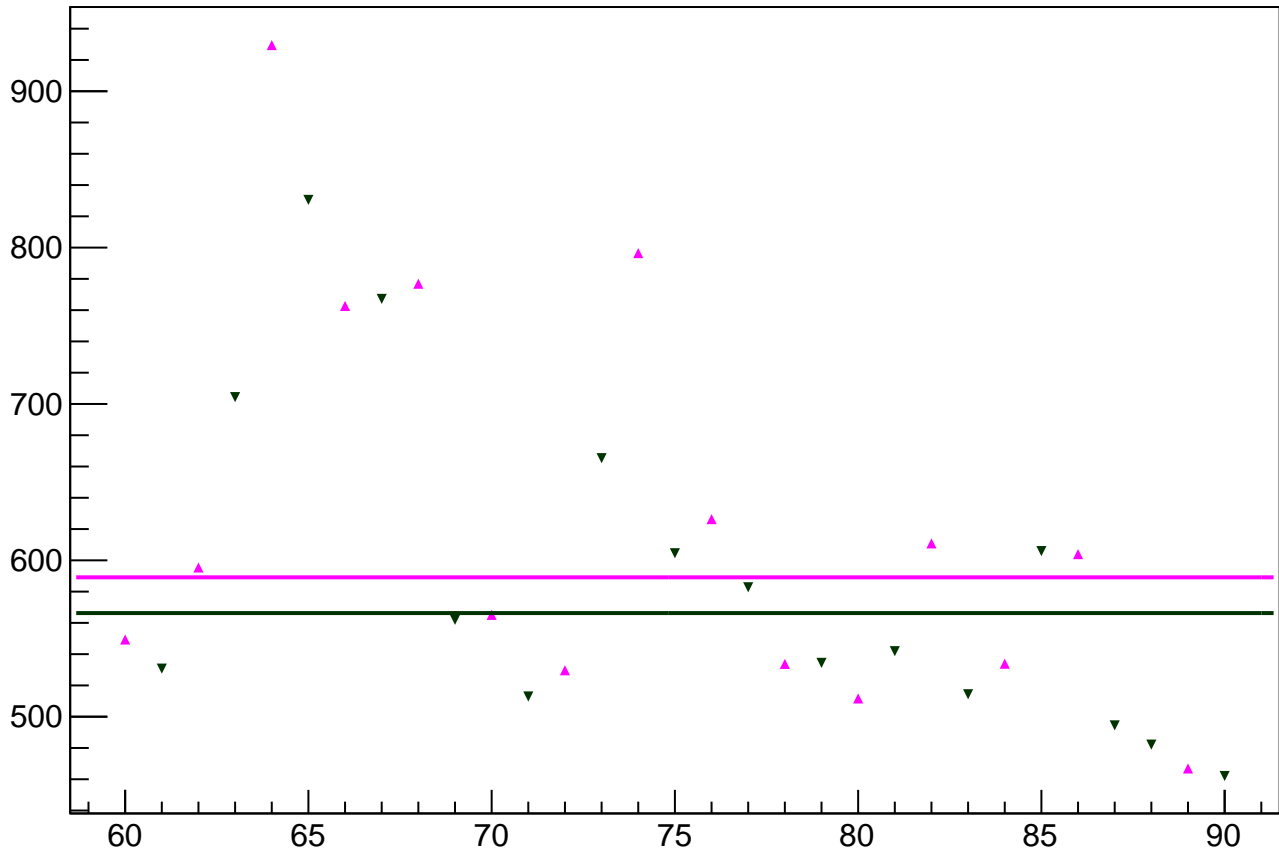
-834.140+/-208.541  $\chi^2$ /NDF: 40.9/15

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

81.707+/-216.872  $\chi^2$ /NDF: 11.3/14

Left In: 81.707+/-216.872  $\chi^2$ /NDF:11.3/14

# asym\_left\_avg\_correction\_rms vs slug



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

Left Out: 566.279+/-0.147  $\chi^2$ /NDF:349335.3/15

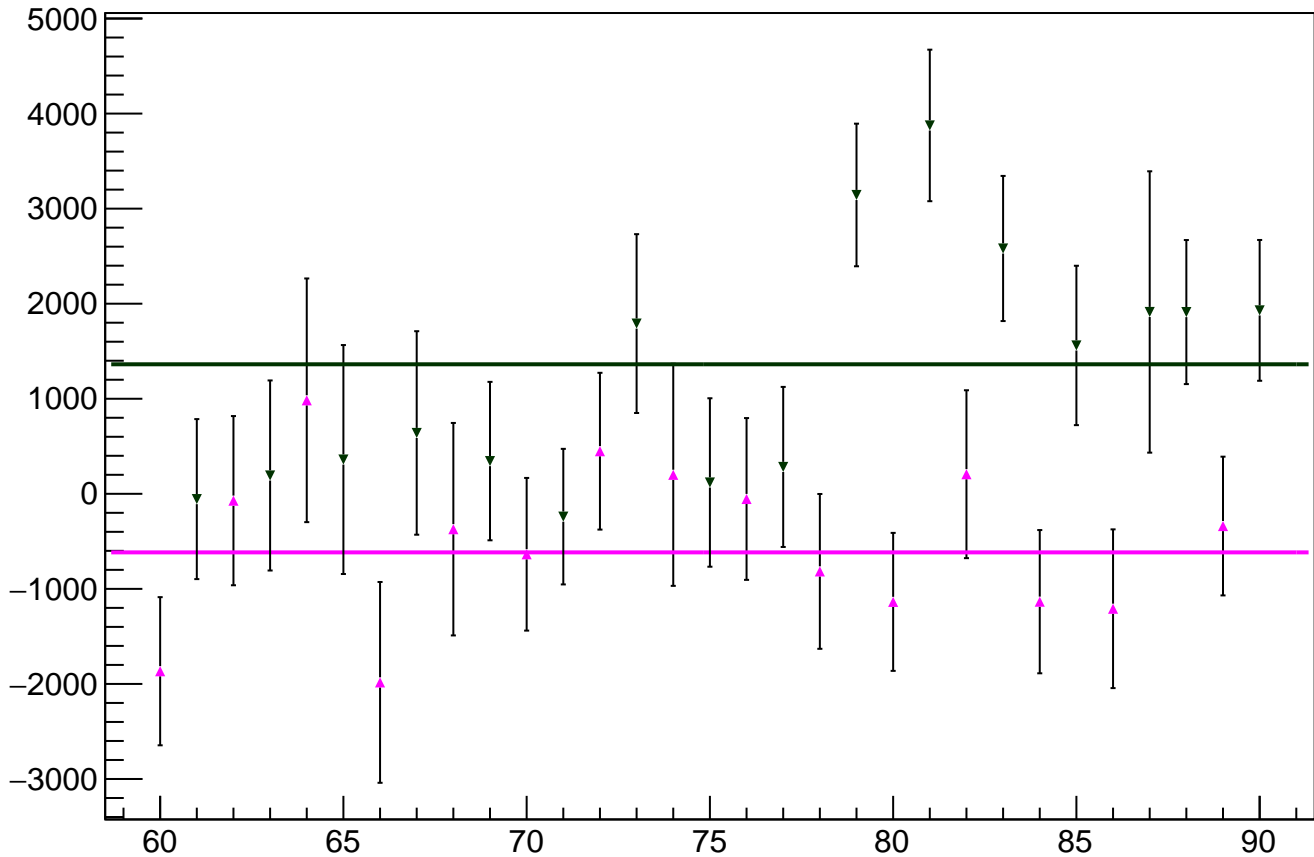
566.279+/-0.147  $\chi^2$ /NDF: 349335.3/15

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

Left In: 589.136+/-0.153  $\chi^2$ /NDF:453275.1/14

589.136+/-0.153  $\chi^2$ /NDF: 453275.1/14

# asym\_left\_avg\_mean vs slug



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

1362.576+/-214.635  $\chi^2/\text{NDF}$ : 35.2/15

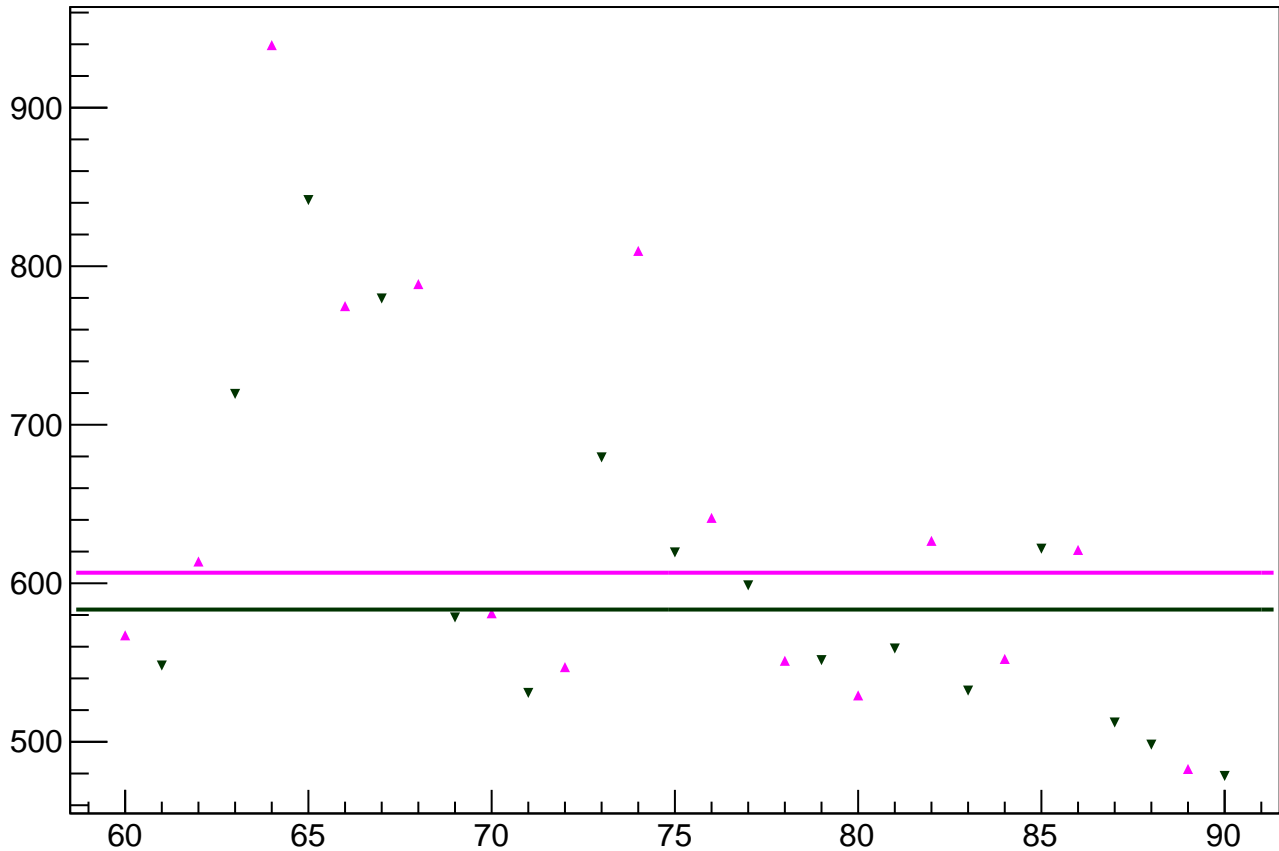
Left Out: 1362.576+/-214.635  $\chi^2/\text{NDF}$ : 35.2/15

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

-616.084+/-222.988  $\chi^2/\text{NDF}$ : 11.4/14

Left In: -616.084+/-222.988  $\chi^2/\text{NDF}$ : 11.4/14

# asym\_left\_avg\_rms vs slug



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

Left Out: 583.431+/-0.152  $\chi^2$ /NDF:324273.2/15

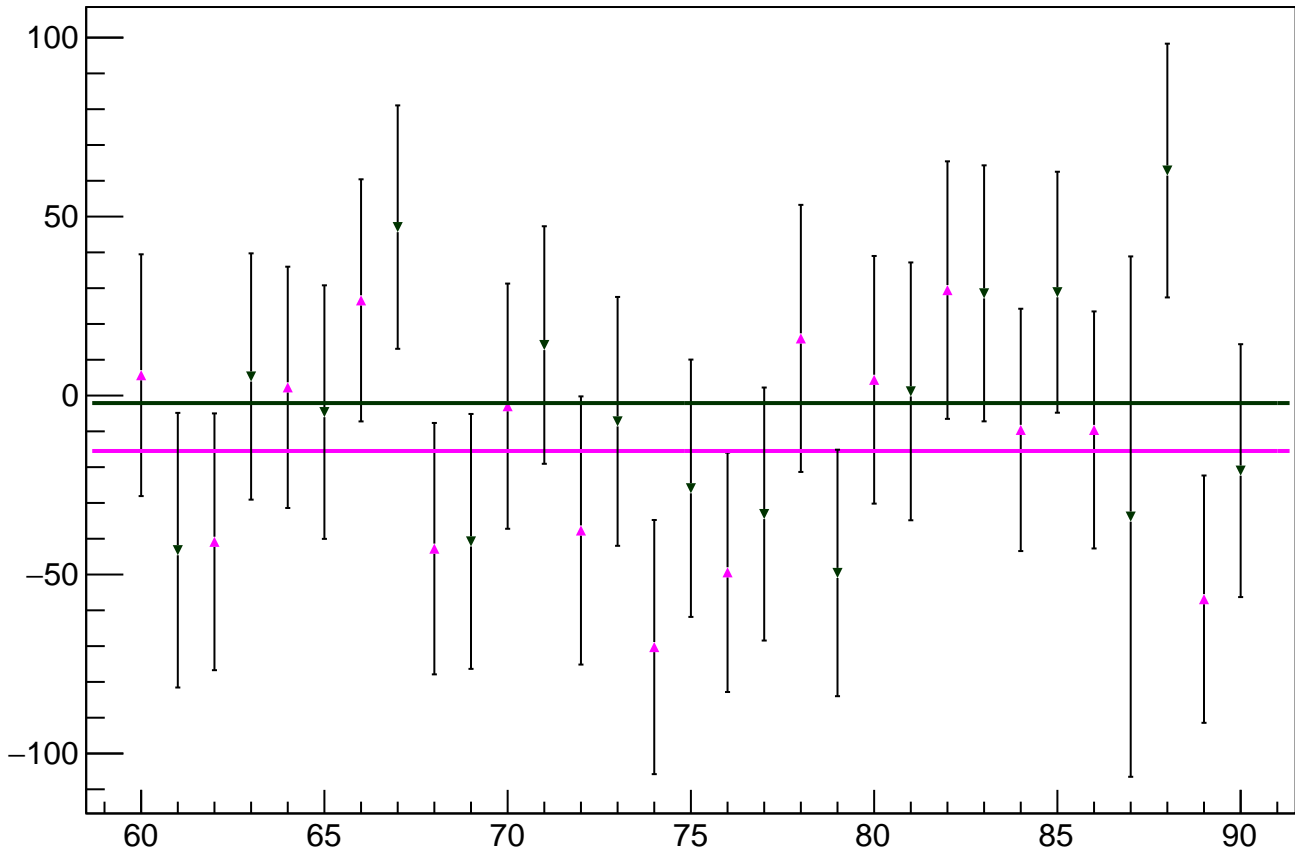
583.431+/-0.152  $\chi^2$ /NDF: 324273.2/15

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

Left In: 606.665+/-0.158  $\chi^2$ /NDF:421638.9/14

606.665+/-0.158  $\chi^2$ /NDF: 421638.9/14

# reg\_asym\_left\_dd\_mean vs slug



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

Left Out: -2.099+/-8.998  $\chi^2$ /NDF:13.3/15

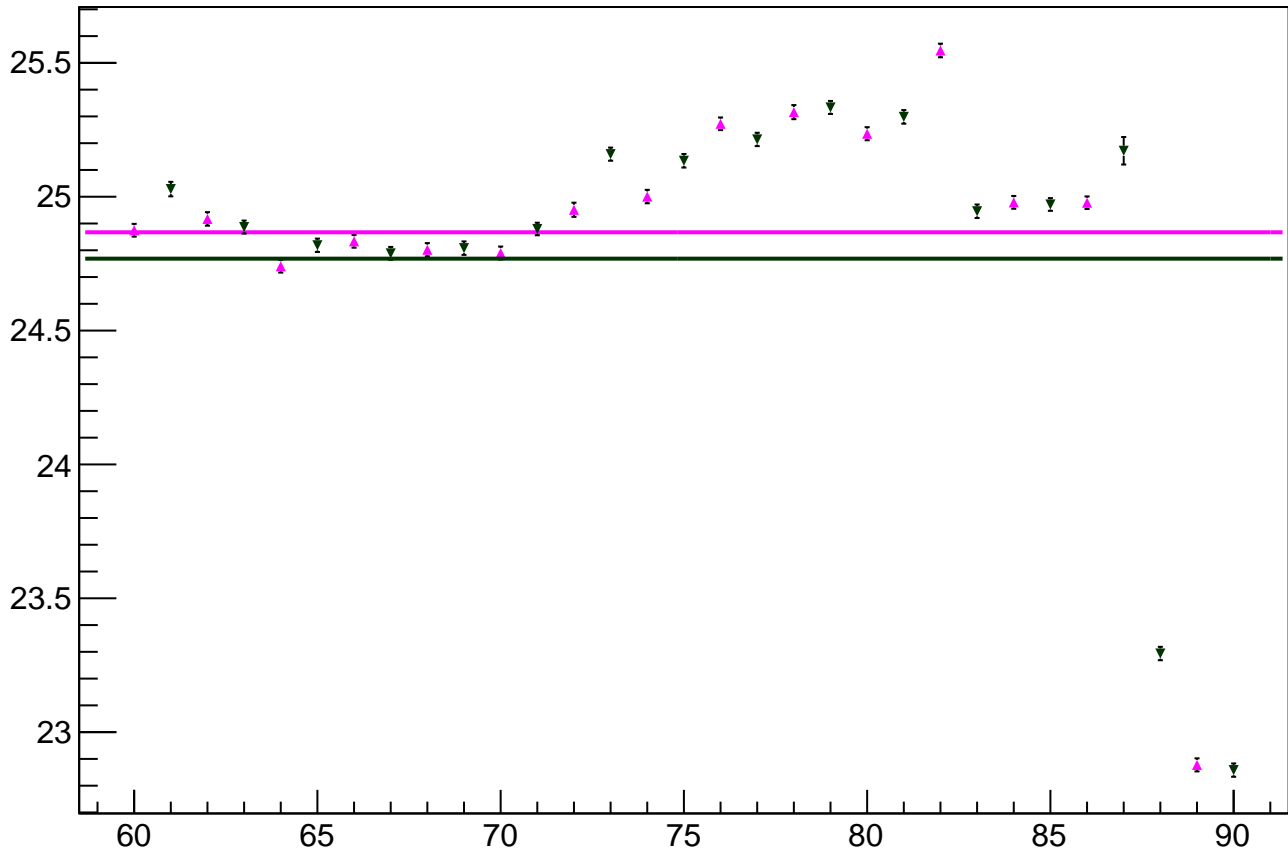
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -15.486+/-8.972  $\chi^2$ /NDF:11.3/14

-2.099+/-8.998  $\chi^2$ /NDF: 13.3/15

-15.486+/-8.972  $\chi^2$ /NDF: 11.3/14

# reg\_asym\_left\_dd\_rms vs slug



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

Left Out: 24.769+/-0.006  $\chi^2$ /NDF:11388.3/15

24.769+/-0.006  $\chi^2$ /NDF: 11388.3/15

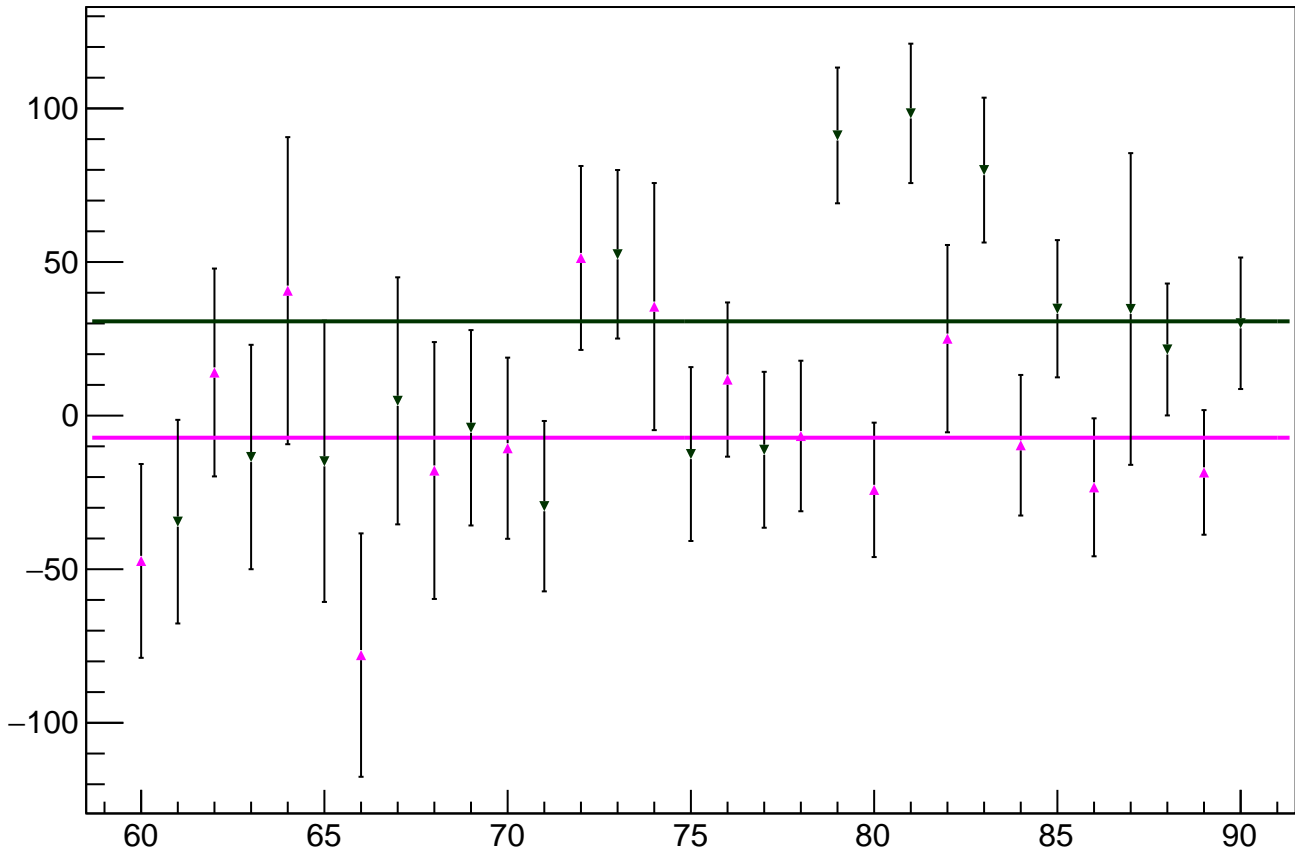
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

24.867+/-0.006  $\chi^2$ /NDF: 8288.0/14

Left In: 24.867+/-0.006  $\chi^2$ /NDF:8288.0/14



# asym\_left\_dd\_correction\_mean vs slug



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

Left Out: 30.691+/-6.787  $\chi^2/\text{NDF}$ : 39.3/15

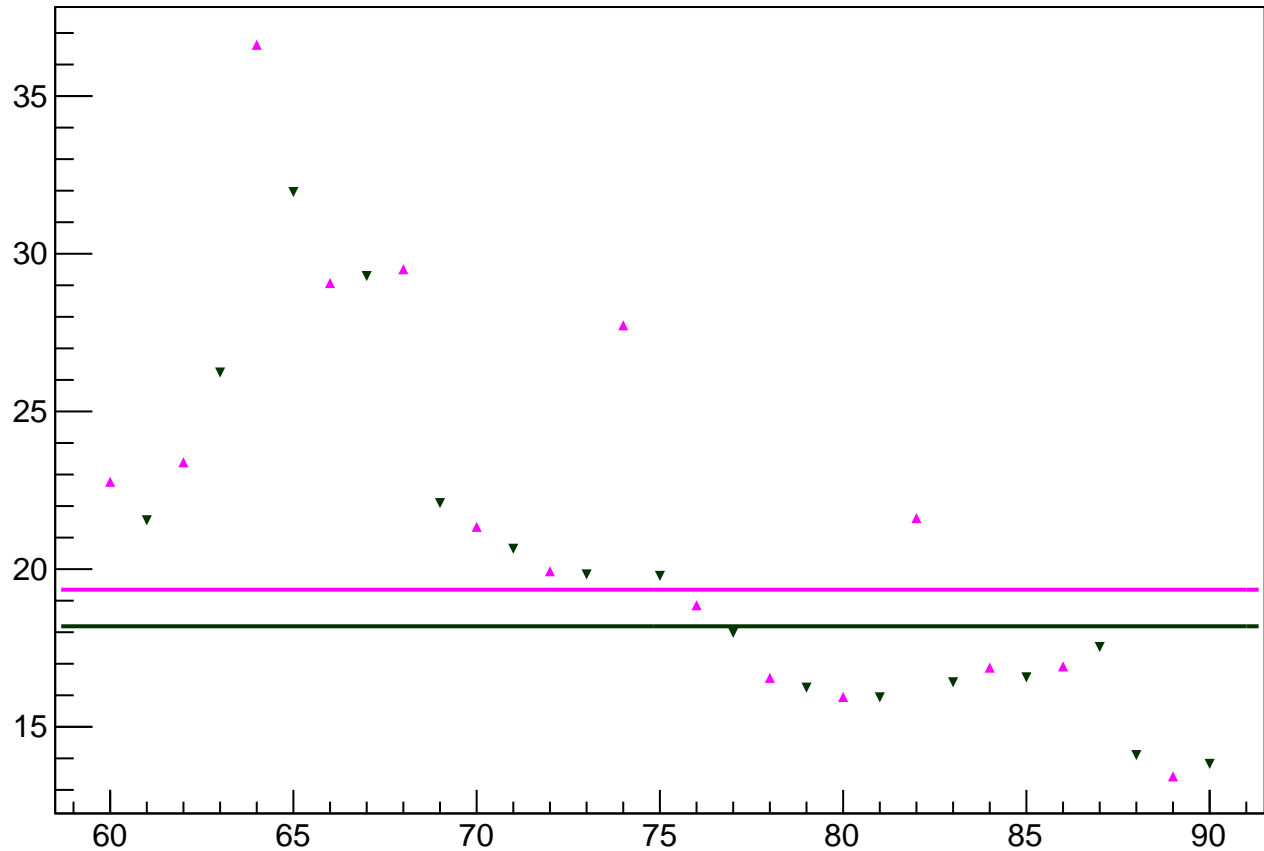
30.691+/-6.787  $\chi^2/\text{NDF}$ : 39.3/15

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

-7.192+/-7.233  $\chi^2/\text{NDF}$ : 14.3/14

Left In: -7.192+/-7.233  $\chi^2/\text{NDF}$ : 14.3/14

# asym\_left\_dd\_correction\_rms vs slug



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

Left Out: 18.188+/-0.005  $\chi^2/\text{NDF}$ : 723501.8/15

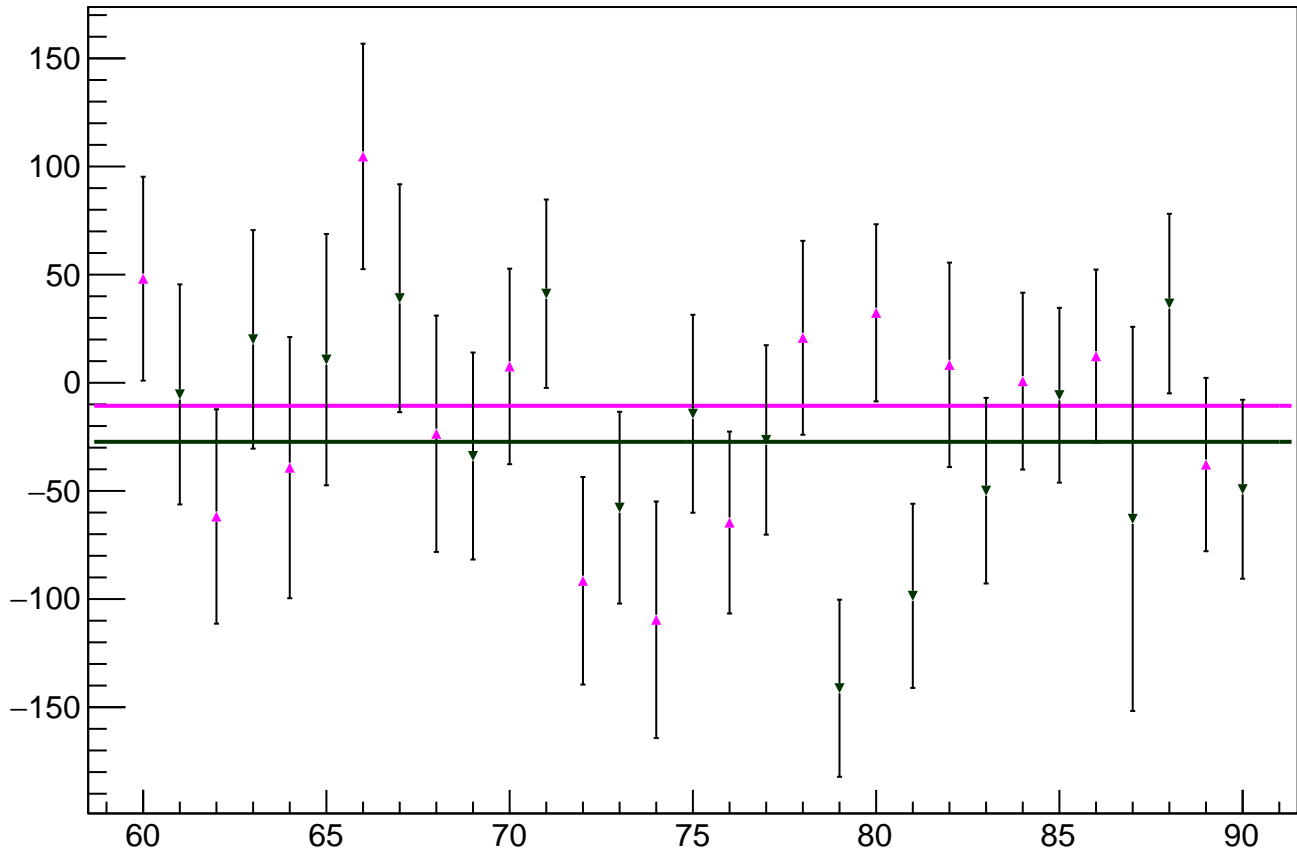
18.188+/-0.005  $\chi^2/\text{NDF}$ : 723501.8/15

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

19.348+/-0.005  $\chi^2/\text{NDF}$ : 929710.7/14

Left In: 19.348+/-0.005  $\chi^2/\text{NDF}$ : 929710.7/14

# asym\_left\_dd\_mean vs slug



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

-27.295+/-11.546  $\chi^2$ /NDF: 20.0/15

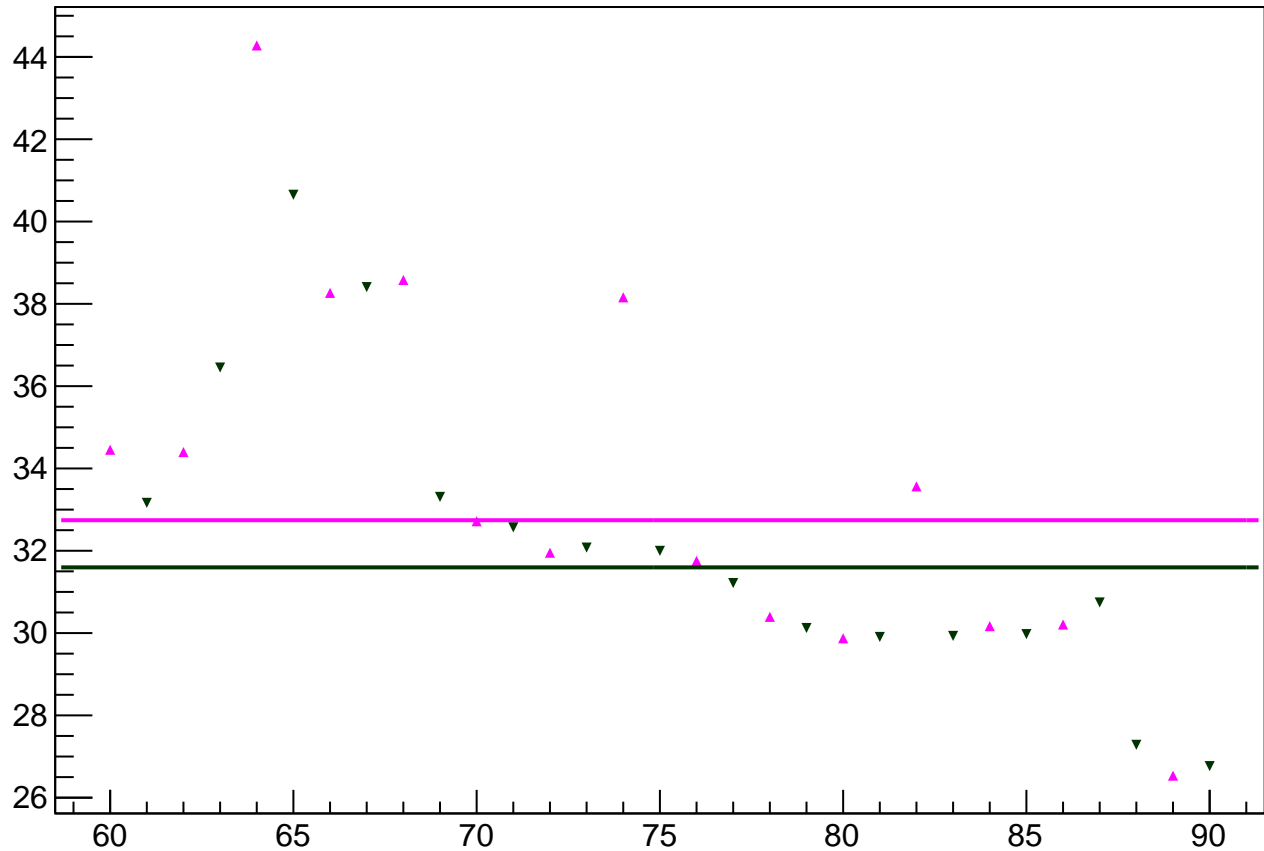
Left Out: -27.295+/-11.546  $\chi^2$ /NDF:20.0/15

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

-10.639+/-11.915  $\chi^2$ /NDF: 18.3/14

Left In: -10.639+/-11.915  $\chi^2$ /NDF:18.3/14

# asym\_left\_dd\_rms vs slug



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

Left Out: 31.596+/-0.008  $\chi^2/\text{NDF}$ :167428.4/15

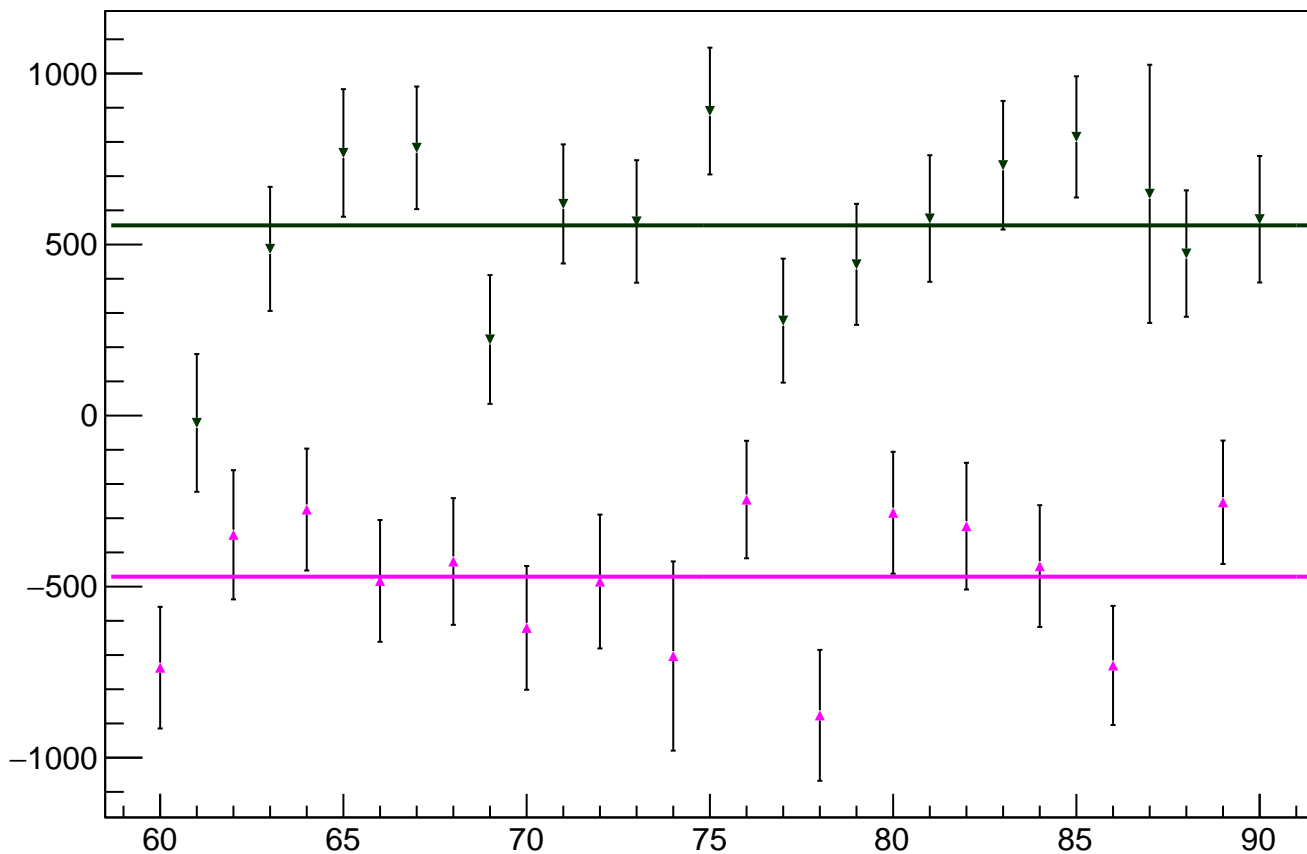
31.596+/-0.008  $\chi^2/\text{NDF}$ : 167428.4/15

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

32.742+/-0.008  $\chi^2/\text{NDF}$ : 224285.7/14

Left In: 32.742+/-0.008  $\chi^2/\text{NDF}$ :224285.7/14

# reg\_asym\_right\_avg\_mean vs slug



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

Left Out: 556.092+/-46.939  $\chi^2$ /NDF:23.8/15

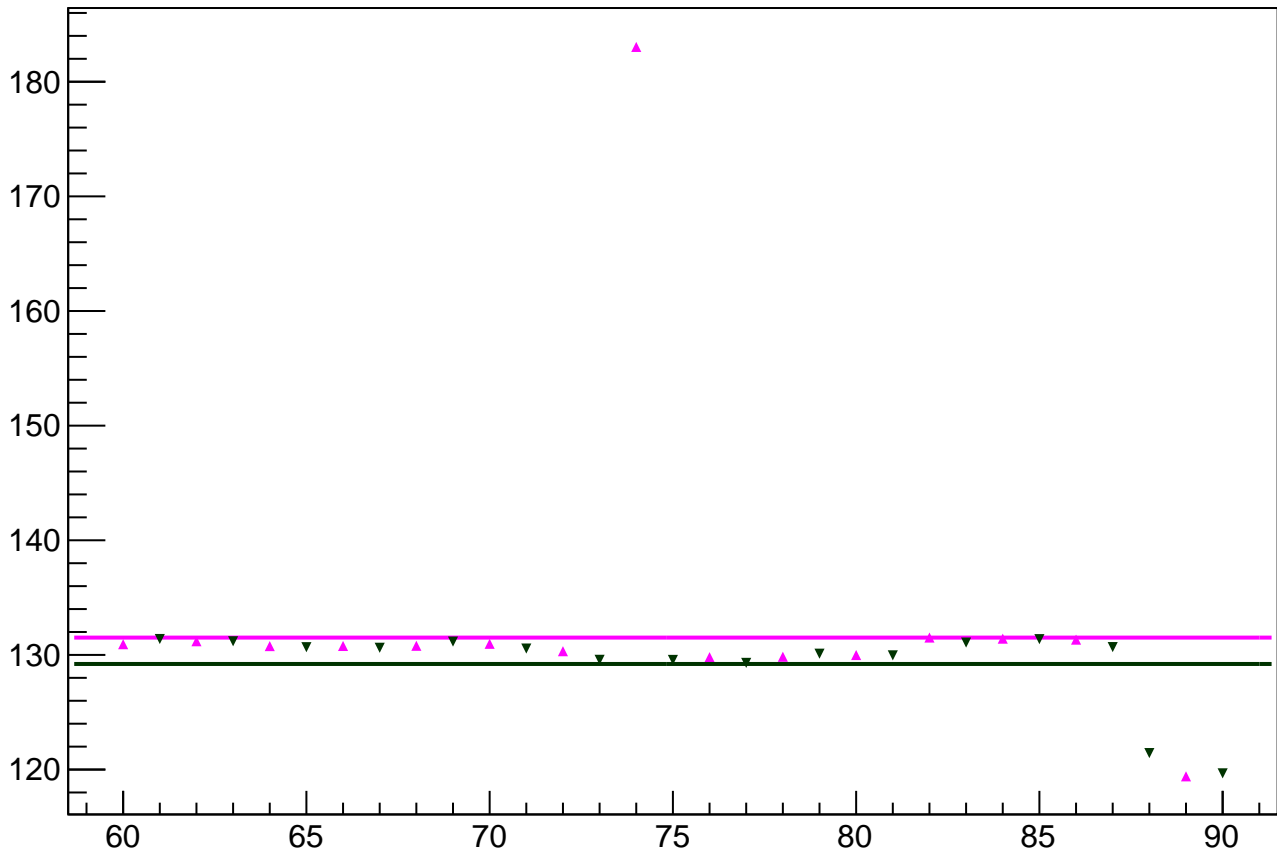
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -470.900+/-47.742  $\chi^2$ /NDF:17.0/14

556.092+/-46.939  $\chi^2$ /NDF: 23.8/15

-470.900+/-47.742  $\chi^2$ /NDF: 17.0/14

# reg\_asym\_right\_avg\_rms vs slug



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

Left Out: 129.211+/-0.033  $\chi^2$ /NDF:10544.6/15

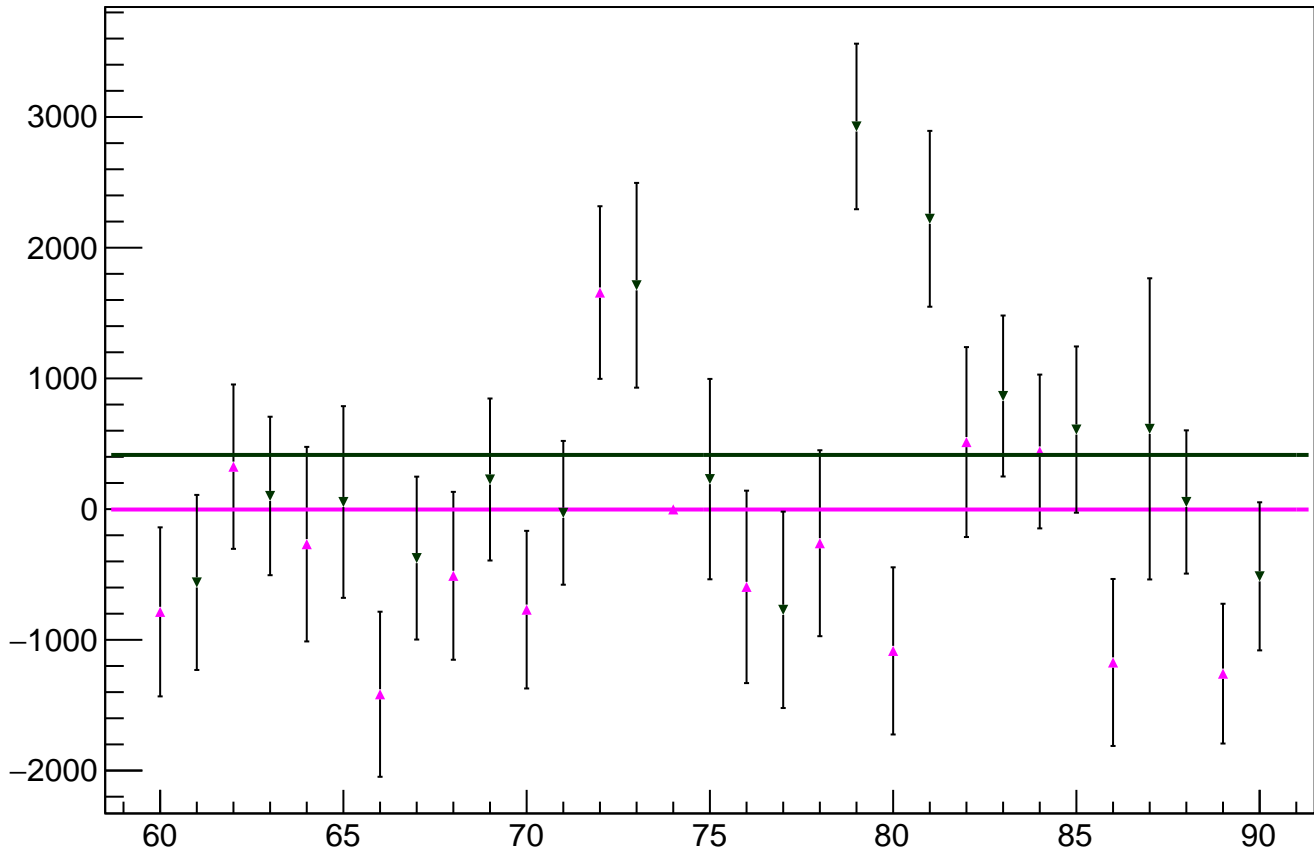
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 131.511+/-0.034  $\chi^2$ /NDF:79134.3/14

129.211+/-0.033  $\chi^2$ /NDF: 10544.6/15

131.511+/-0.034  $\chi^2$ /NDF: 79134.3/14

# asym\_right\_avg\_correction\_mean vs slug



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

Left Out: 414.590+/-163.487  $\chi^2$ /NDF:37.0/15

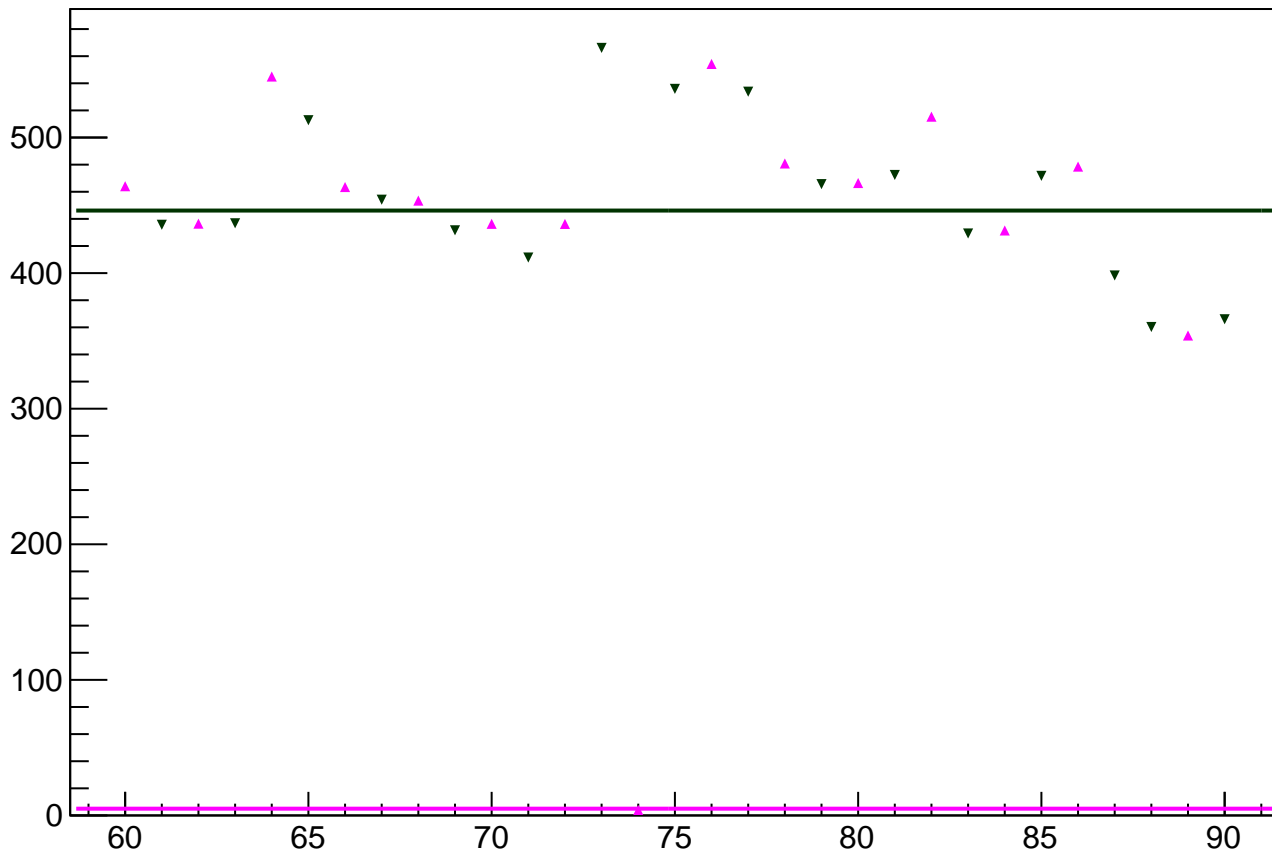
414.590+/-163.487  $\chi^2$ /NDF: 37.0/15

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

-2.981+/-7.940  $\chi^2$ /NDF: 29.0/14

Left In: -2.981+/-7.940  $\chi^2$ /NDF:29.0/14

# asym\_right\_avg\_correction\_rms vs slug



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

Left Out: 446.141+/-0.116  $\chi^2$ /NDF:230768.7/15

446.141+/-0.116  $\chi^2$ /NDF: 230768.7/15

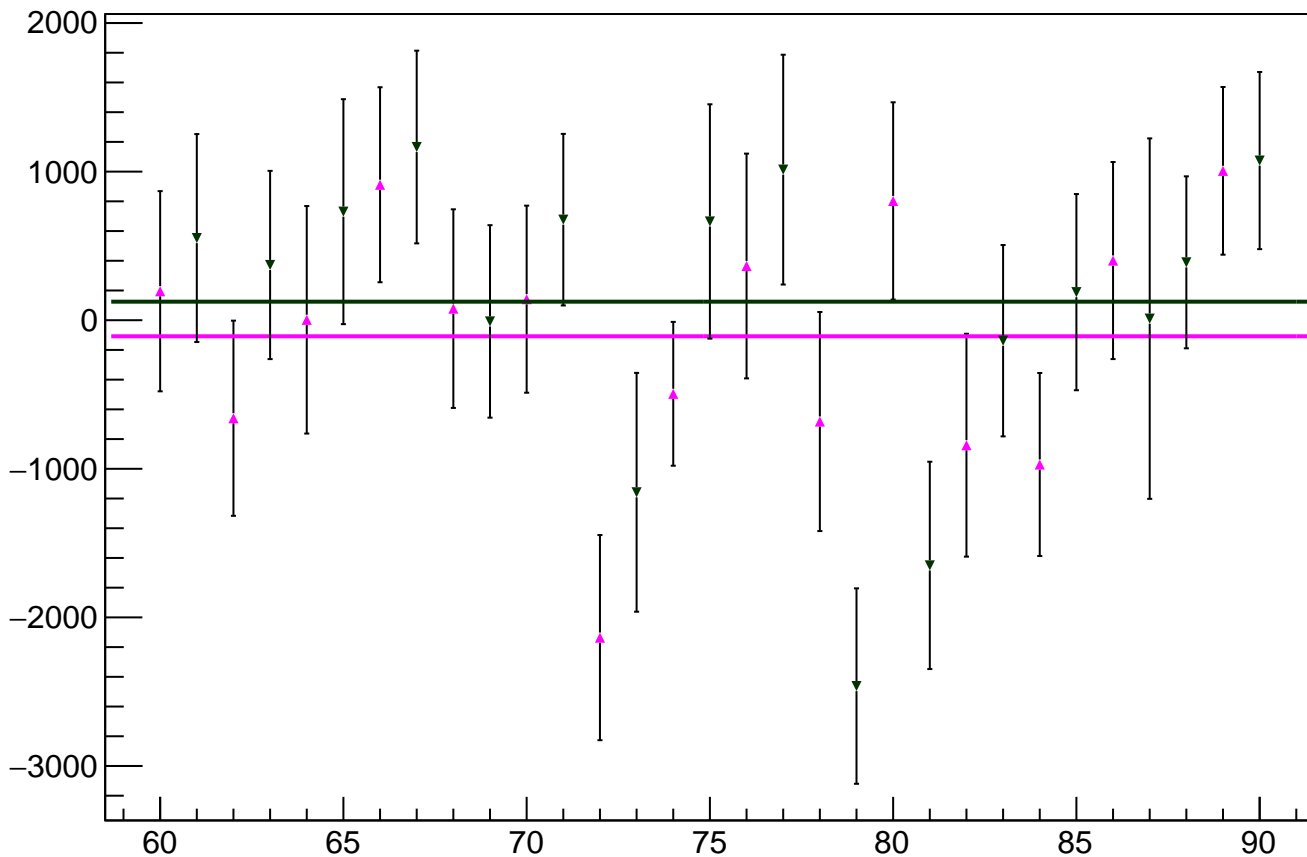
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5.000+/-0.006  $\chi^2$ /NDF: 13978044.1/14

Left In: 5.000+/-0.006  $\chi^2$ /NDF:13978044.1/14



# asym\_right\_avg\_mean vs slug



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

Left Out: 124.772+/-170.445  $\chi^2$ /NDF:33.9/15

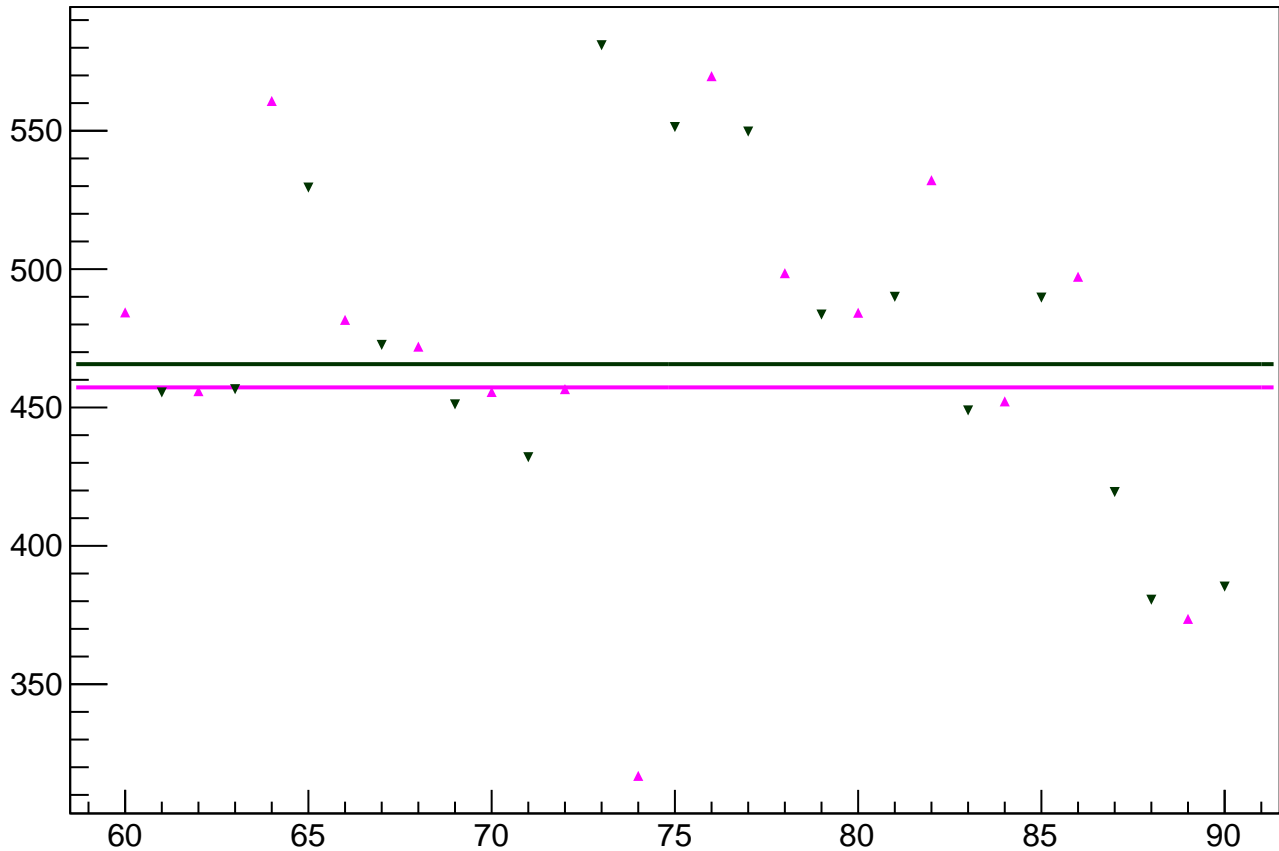
124.772+/-170.445  $\chi^2$ /NDF: 33.9/15

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

-108.130+/-168.160  $\chi^2$ /NDF: 23.1/14

Left In: -108.130+/-168.160  $\chi^2$ /NDF:23.1/14

# asym\_right\_avg\_rms vs slug



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

Left Out: 465.665+/-0.121  $\chi^2$ /NDF:201906.3/15

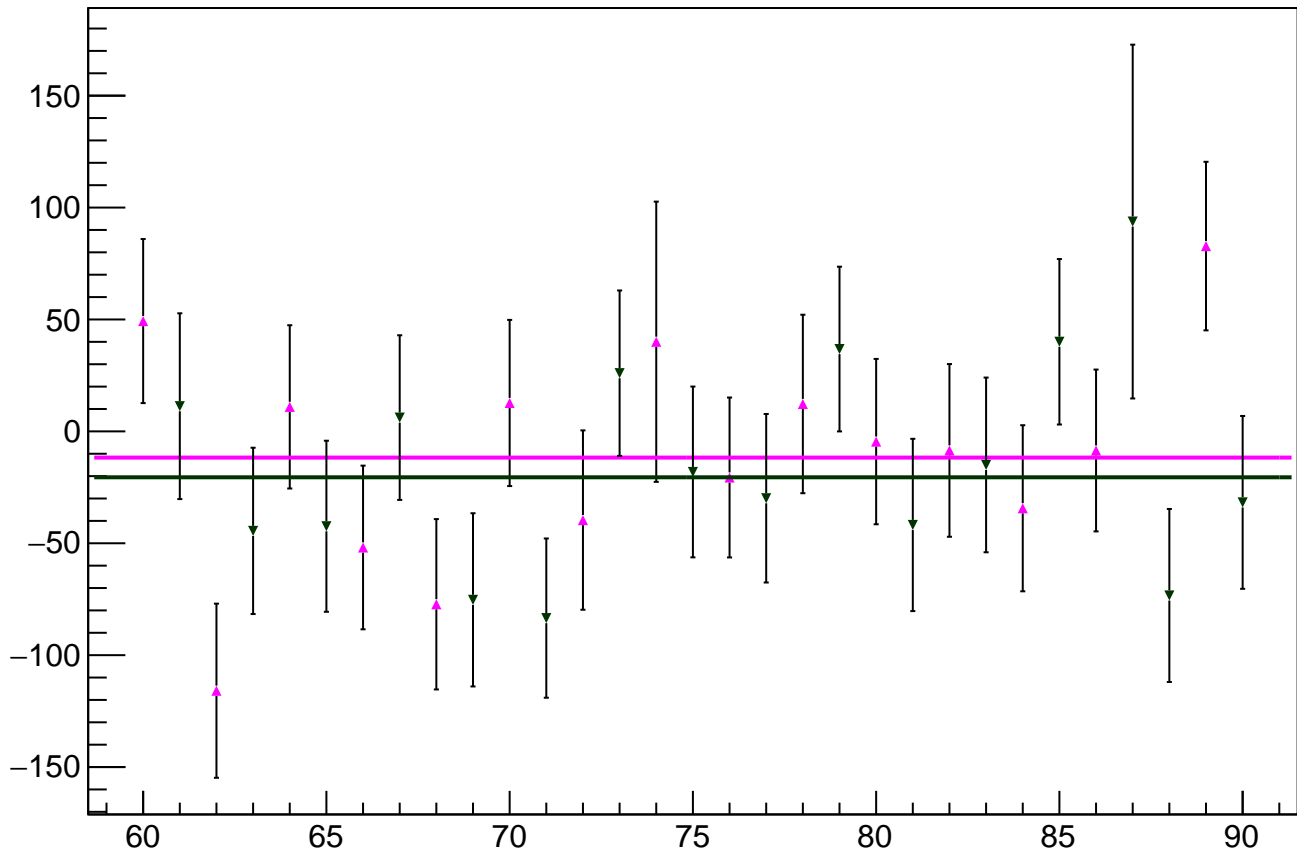
465.665+/-0.121  $\chi^2$ /NDF: 201906.3/15

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

Left In: 457.267+/-0.119  $\chi^2$ /NDF:336890.4/14

457.267+/-0.119  $\chi^2$ /NDF: 336890.4/14

# reg\_asym\_right\_dd\_mean vs slug



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

Left Out: -20.524+/-9.707  $\chi^2$ /NDF:18.1/15

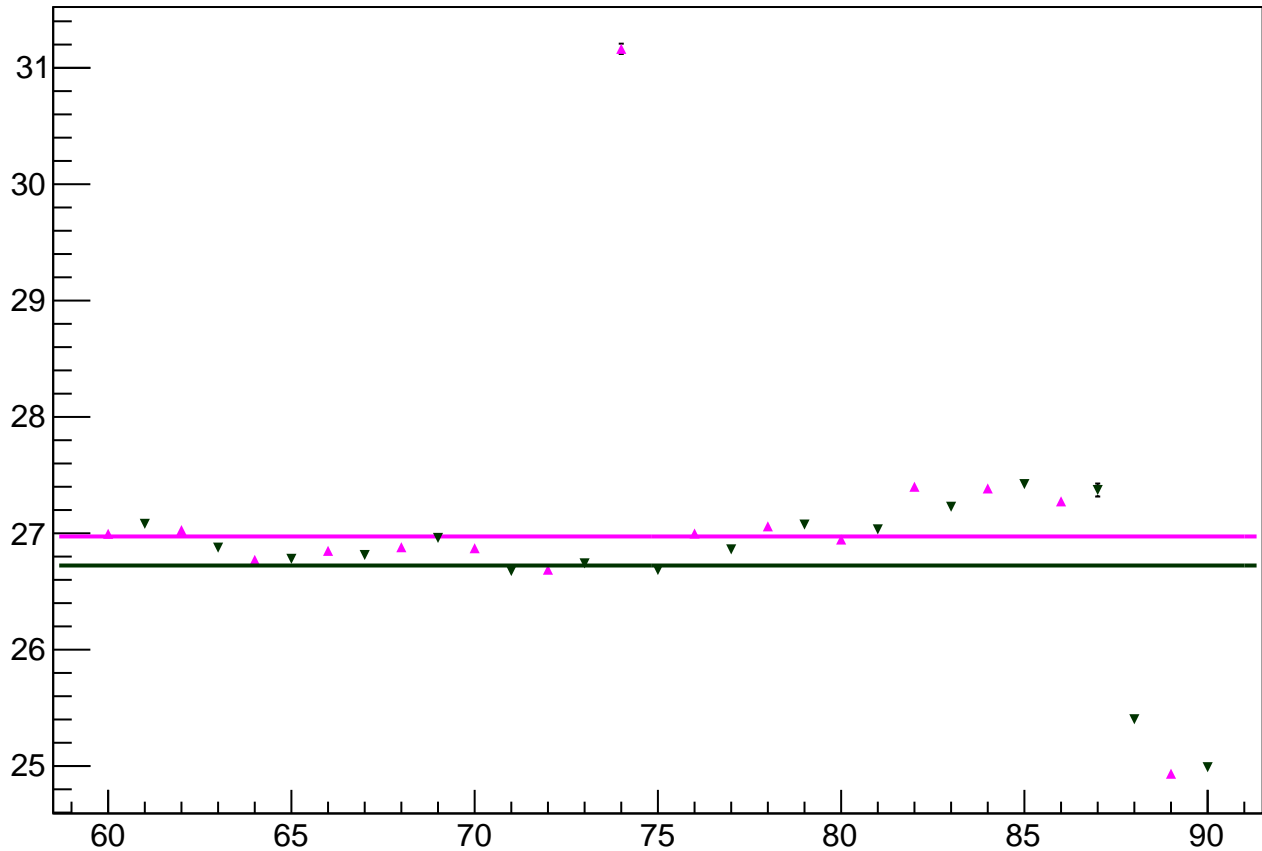
-20.524+/-9.707  $\chi^2$ /NDF: 18.1/15

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

Left In: -11.716+/-9.896  $\chi^2$ /NDF:23.2/14

-11.716+/-9.896  $\chi^2$ /NDF: 23.2/14

# reg\_asym\_right\_dd\_rms vs slug



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

Left Out: 26.723+/-0.007  $\chi^2$ /NDF:8172.8/15

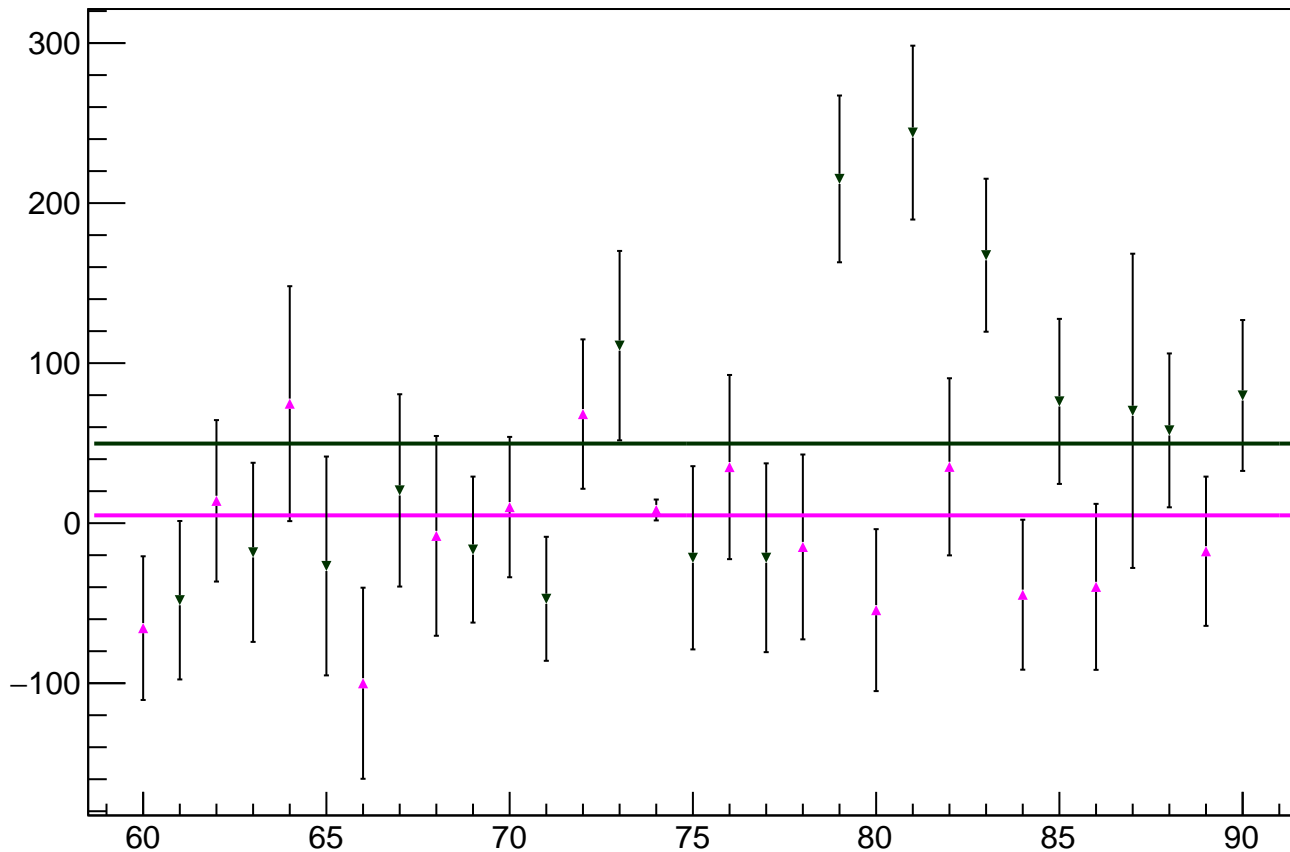
26.723+/-0.007  $\chi^2$ /NDF: 8172.8/15

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

Left In: 26.973+/-0.007  $\chi^2$ /NDF:15684.6/14

26.973+/-0.007  $\chi^2$ /NDF: 15684.6/14

# asym\_right\_dd\_correction\_mean vs slug



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

Left Out: 49.742+/-13.187  $\chi^2/\text{NDF}$ : 49.0/15

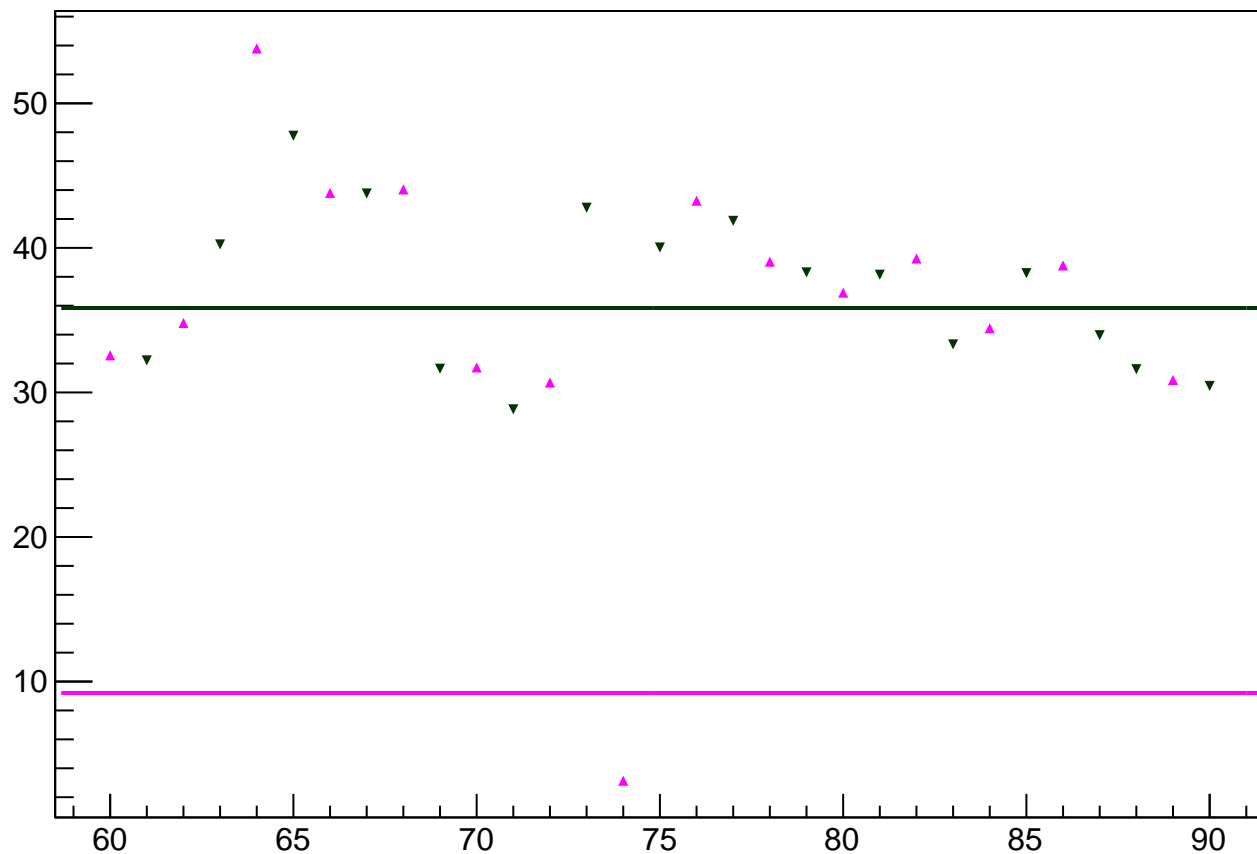
49.742+/-13.187  $\chi^2/\text{NDF}$ : 49.0/15

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

Left In: 4.881+/-5.907  $\chi^2/\text{NDF}$ : 12.8/14

4.881+/-5.907  $\chi^2/\text{NDF}$ : 12.8/14

# asym\_right\_dd\_correction\_rms vs slug



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

Left Out: 35.843+/-0.009  $\chi^2$ /NDF:320429.8/15

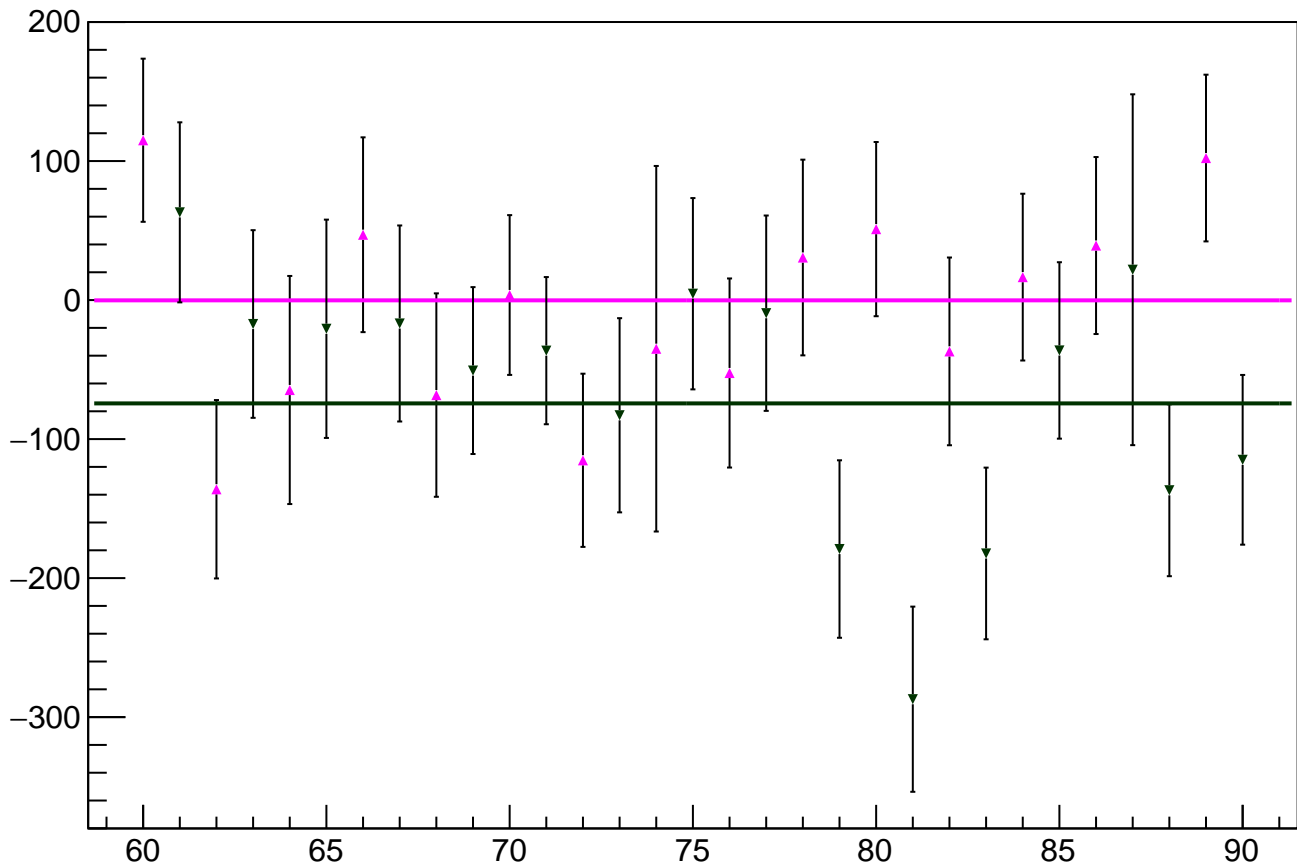
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 9.209+/-0.004  $\chi^2$ /NDF:9855517.5/14

35.843+/-0.009  $\chi^2$ /NDF: 320429.8/15

9.209+/-0.004  $\chi^2$ /NDF: 9855517.5/14

# asym\_right\_dd\_mean vs slug



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

Left Out: -74.328+/-16.555  $\chi^2$ /NDF:27.6/15

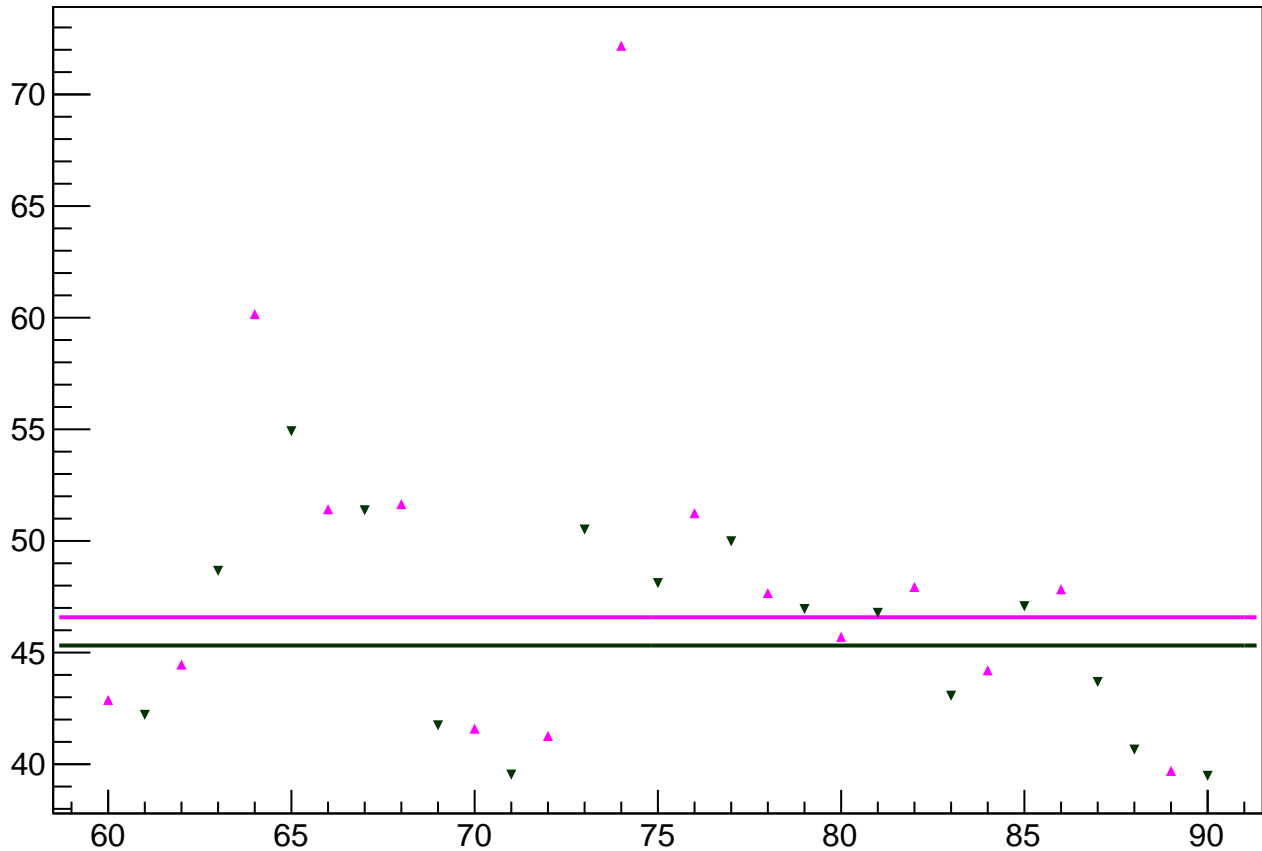
-74.328+/-16.555  $\chi^2$ /NDF: 27.6/15

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

-0.198+/-17.186  $\chi^2$ /NDF: 18.9/14

Left In: -0.198+/-17.186  $\chi^2$ /NDF:18.9/14

# asym\_right\_dd\_rms vs slug



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

Left Out: 45.317+/-0.012  $\chi^2/\text{NDF}$ :144750.3/15

45.317+/-0.012  $\chi^2/\text{NDF}$ : 144750.3/15

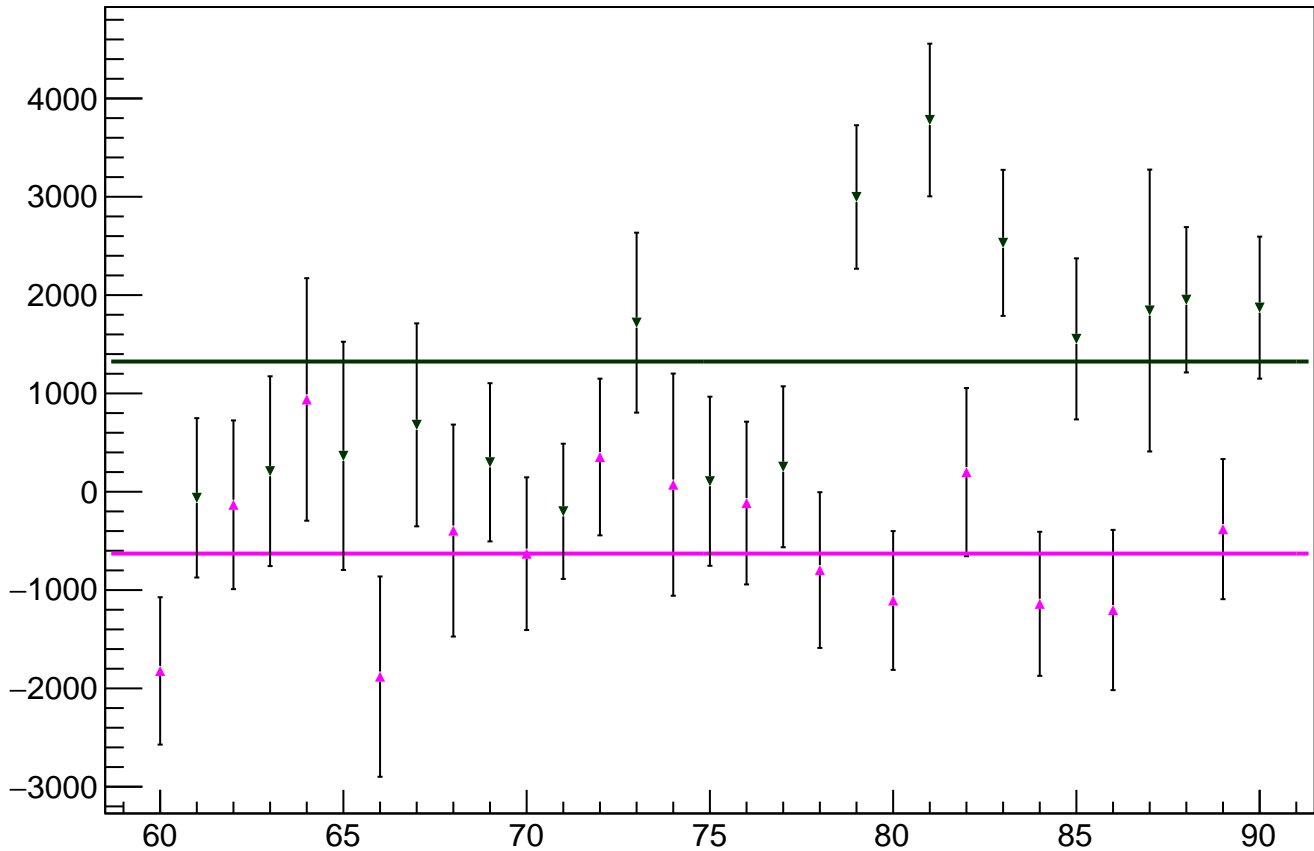
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

46.582+/-0.012  $\chi^2/\text{NDF}$ : 230848.6/14

Left In: 46.582+/-0.012  $\chi^2/\text{NDF}$ :230848.6/14



# cor\_usl\_mean vs slug



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

1324.385+/-208.280  $\chi^2$ /NDF: 35.2/15

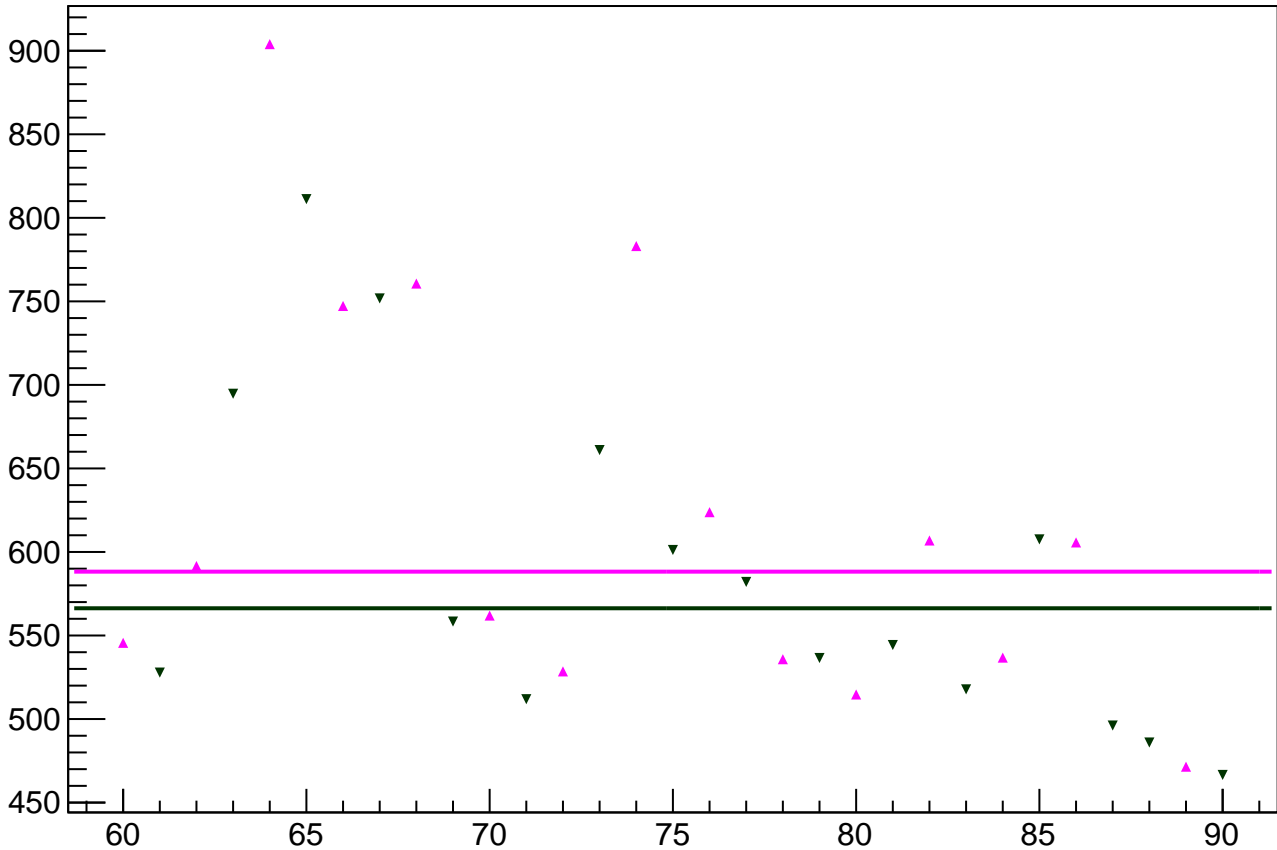
Left Out: 1324.385+/-208.280  $\chi^2$ /NDF:35.2/15

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

-628.805+/-216.137  $\chi^2$ /NDF: 10.9/14

Left In: -628.805+/-216.137  $\chi^2$ /NDF:10.9/14

# cor\_usl\_rms vs slug



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

Left Out: 566.300+/-0.147  $\chi^2$ /NDF:316851.9/15

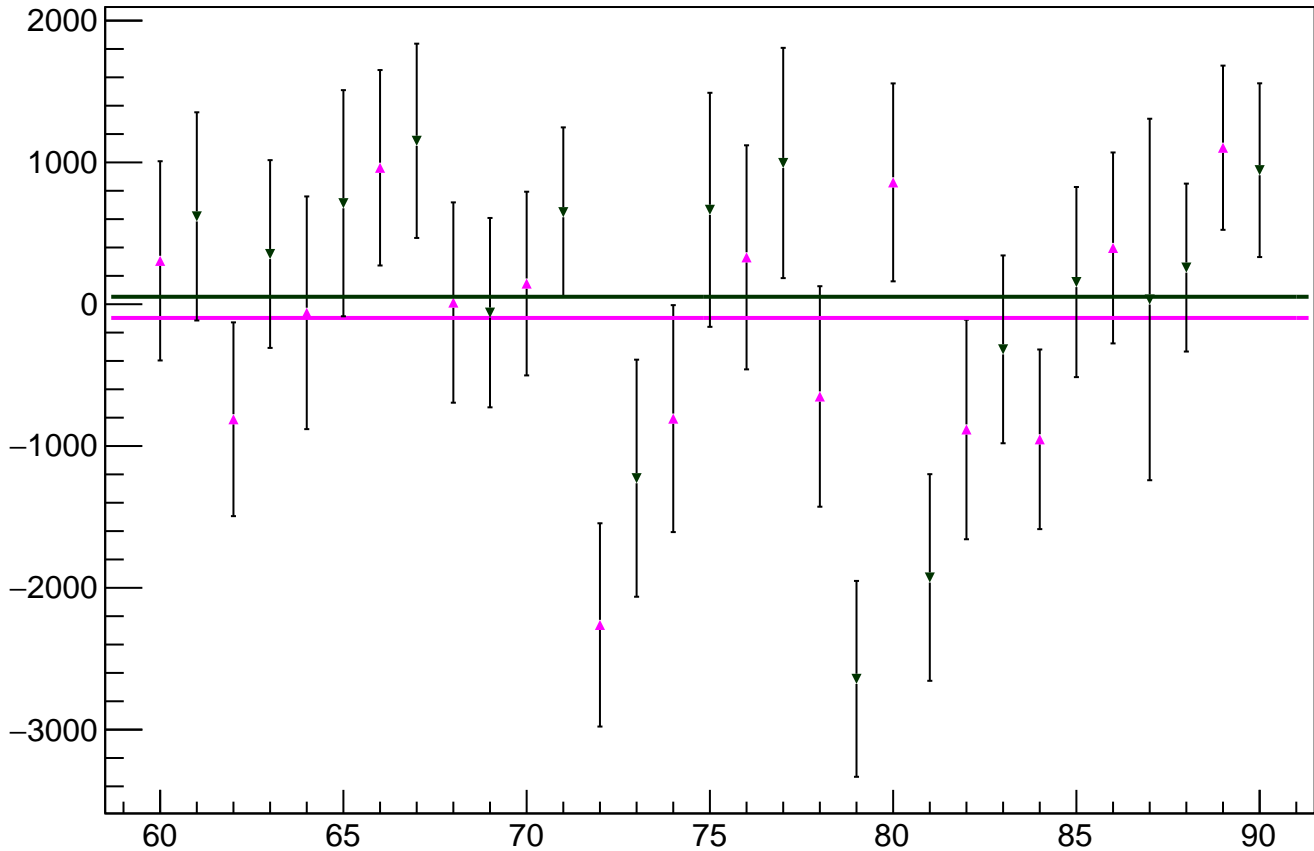
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 588.219+/-0.153  $\chi^2$ /NDF:410143.0/14

566.300+/-0.147  $\chi^2$ /NDF: 316851.9/15

588.219+/-0.153  $\chi^2$ /NDF: 410143.0/14

# cor\_usr\_mean vs slug



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

52.556+/-177.018  $\chi^2/\text{NDF}$ : 34.5/15

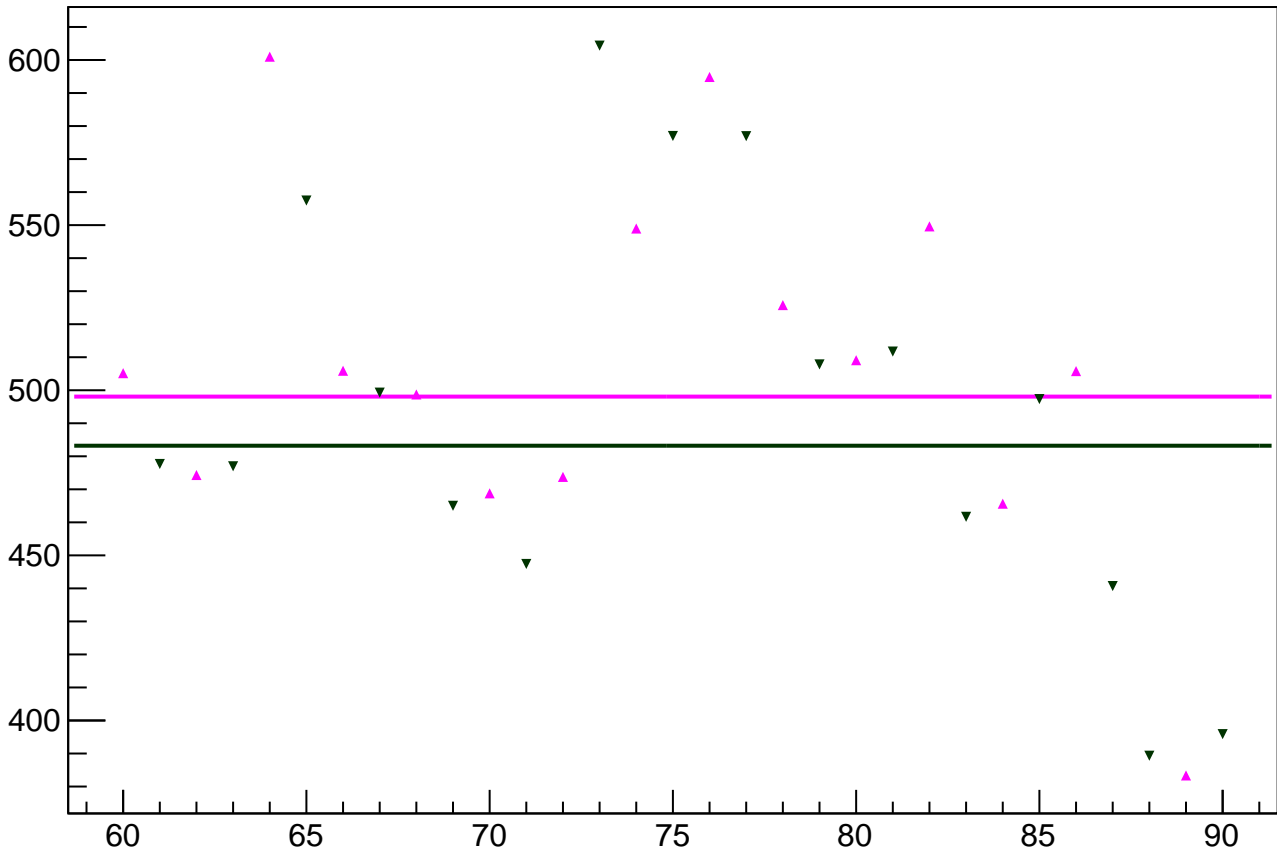
Left Out: 52.556+/-177.018  $\chi^2/\text{NDF}$ : 34.5/15

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

-96.779+/-181.627  $\chi^2/\text{NDF}$ : 24.2/14

Left In: -96.779+/-181.627  $\chi^2/\text{NDF}$ : 24.2/14

# cor\_usr\_rms vs slug



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

Left Out: 483.203+/-0.125  $\chi^2/\text{NDF}$ : 223620.3/15

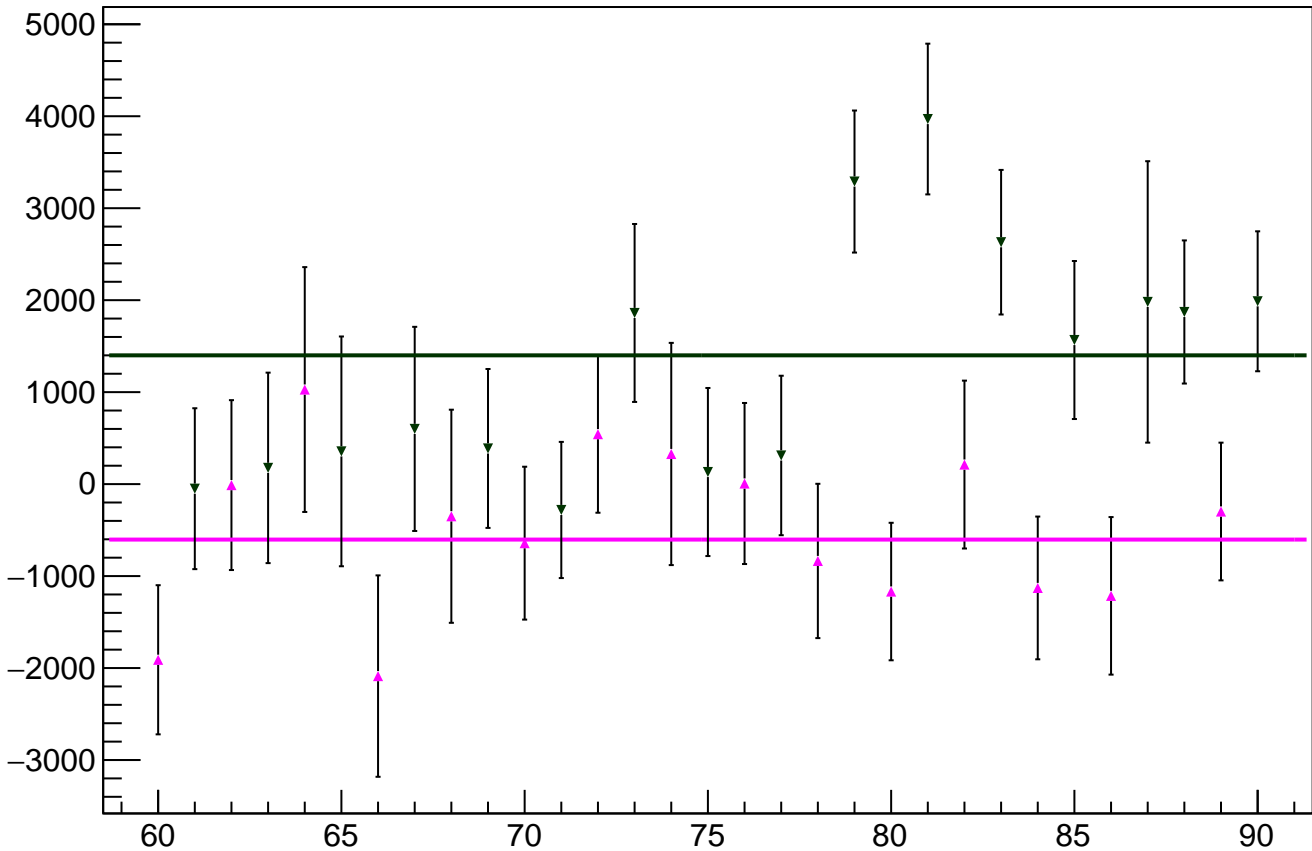
483.203+/-0.125  $\chi^2/\text{NDF}$ : 223620.3/15

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

498.077+/-0.128  $\chi^2/\text{NDF}$ : 174765.6/14

Left In: 498.077+/-0.128  $\chi^2/\text{NDF}$ : 174765.6/14

# cor\_dsl\_mean vs slug



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

1400.111+/-221.409  $\chi^2/\text{NDF}$ : 35.0/15

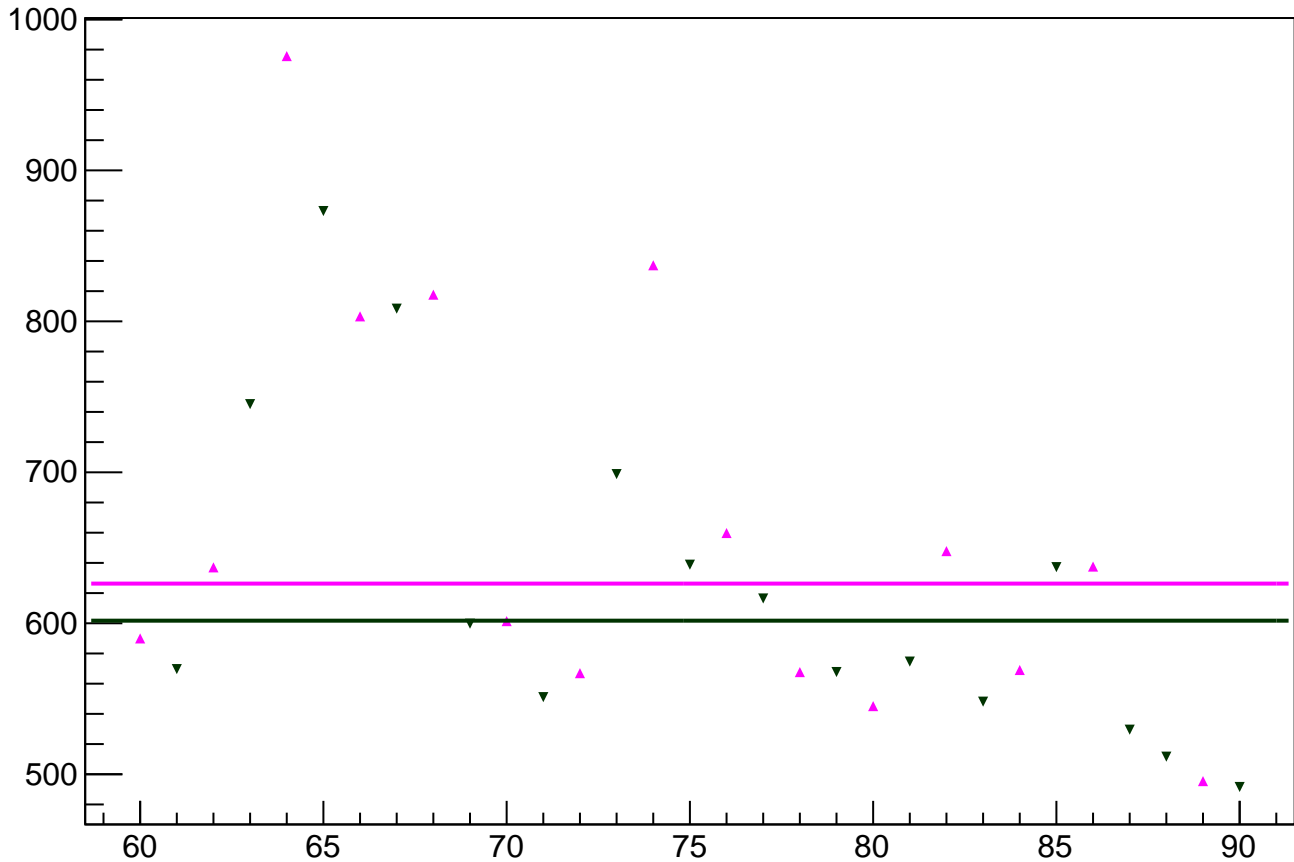
Left Out: 1400.111+/-221.409  $\chi^2/\text{NDF}$ : 35.0/15

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

-603.115+/-230.253  $\chi^2/\text{NDF}$ : 11.9/14

Left In: -603.115+/-230.253  $\chi^2/\text{NDF}$ : 11.9/14

# cor\_dsl\_rms vs slug



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

Left Out: 601.730+/-0.157  $\chi^2$ /NDF:330121.6/15

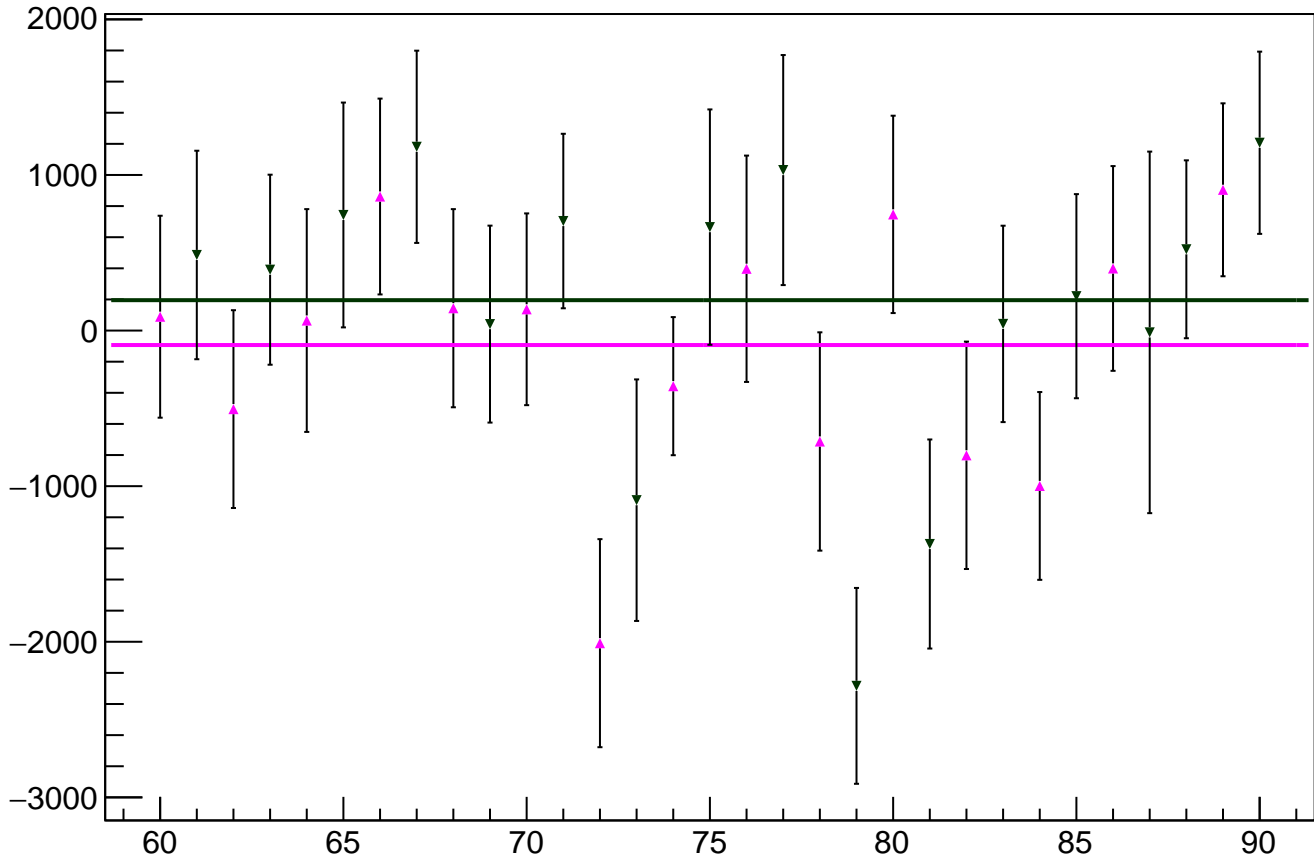
601.730+/-0.157  $\chi^2$ /NDF: 330121.6/15

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

Left In: 626.287+/-0.163  $\chi^2$ /NDF:430942.3/14

626.287+/-0.163  $\chi^2$ /NDF: 430942.3/14

# cor\_dsr\_mean vs slug



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

Left Out: 195.334+/-165.174  $\chi^2$ /NDF:33.1/15

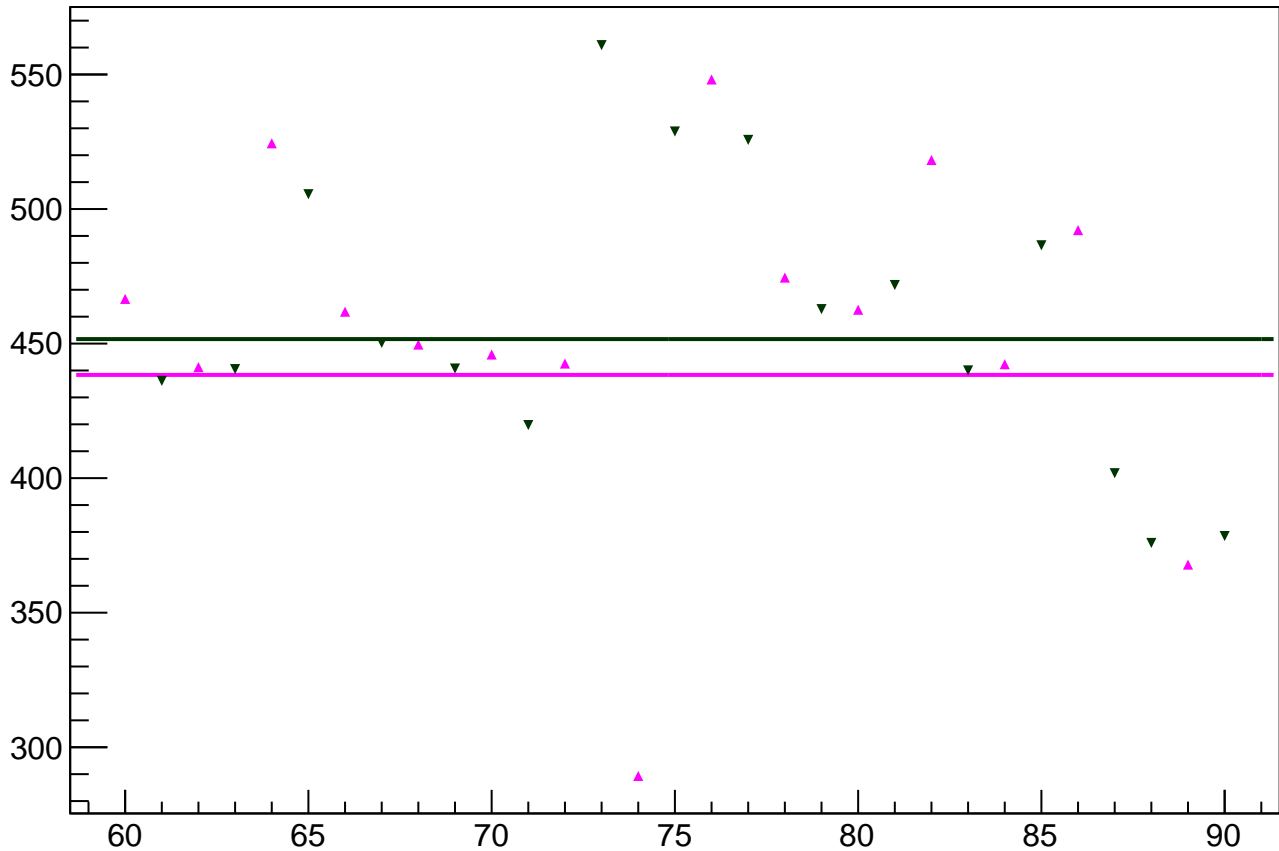
195.334+/-165.174  $\chi^2$ /NDF: 33.1/15

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

-92.985+/-161.548  $\chi^2$ /NDF: 21.7/14

Left In: -92.985+/-161.548  $\chi^2$ /NDF:21.7/14

# cor\_dsr\_rms vs slug



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

Left Out: 451.668+/-0.117  $\chi^2$ /NDF:179192.7/15

451.668+/-0.117  $\chi^2$ /NDF: 179192.7/15

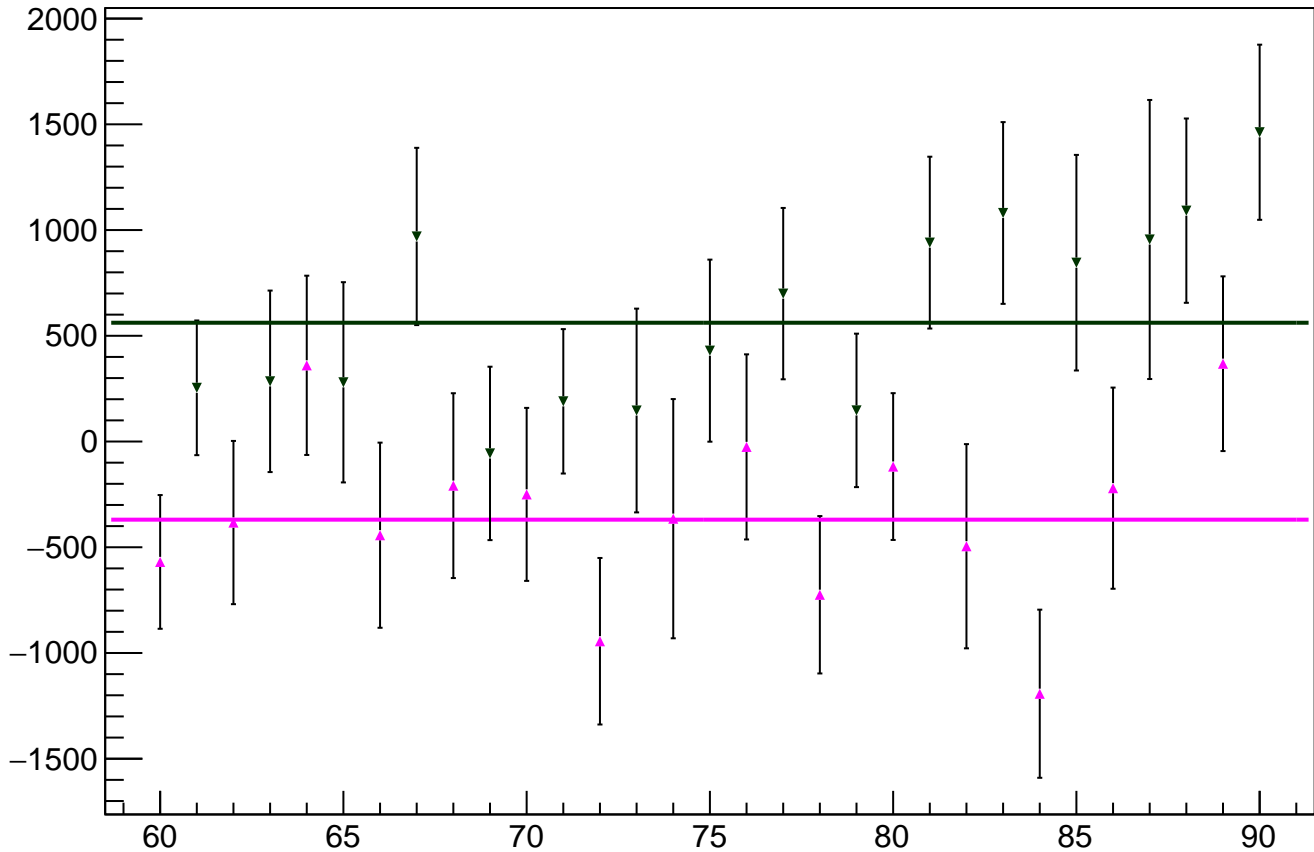
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 438.354+/-0.114  $\chi^2$ /NDF:385426.6/14

438.354+/-0.114  $\chi^2$ /NDF: 385426.6/14



# asym\_us\_agg\_avg\_mean vs slug



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

561.711+/-104.214  $\chi^2/\text{NDF}$ : 17.6/15

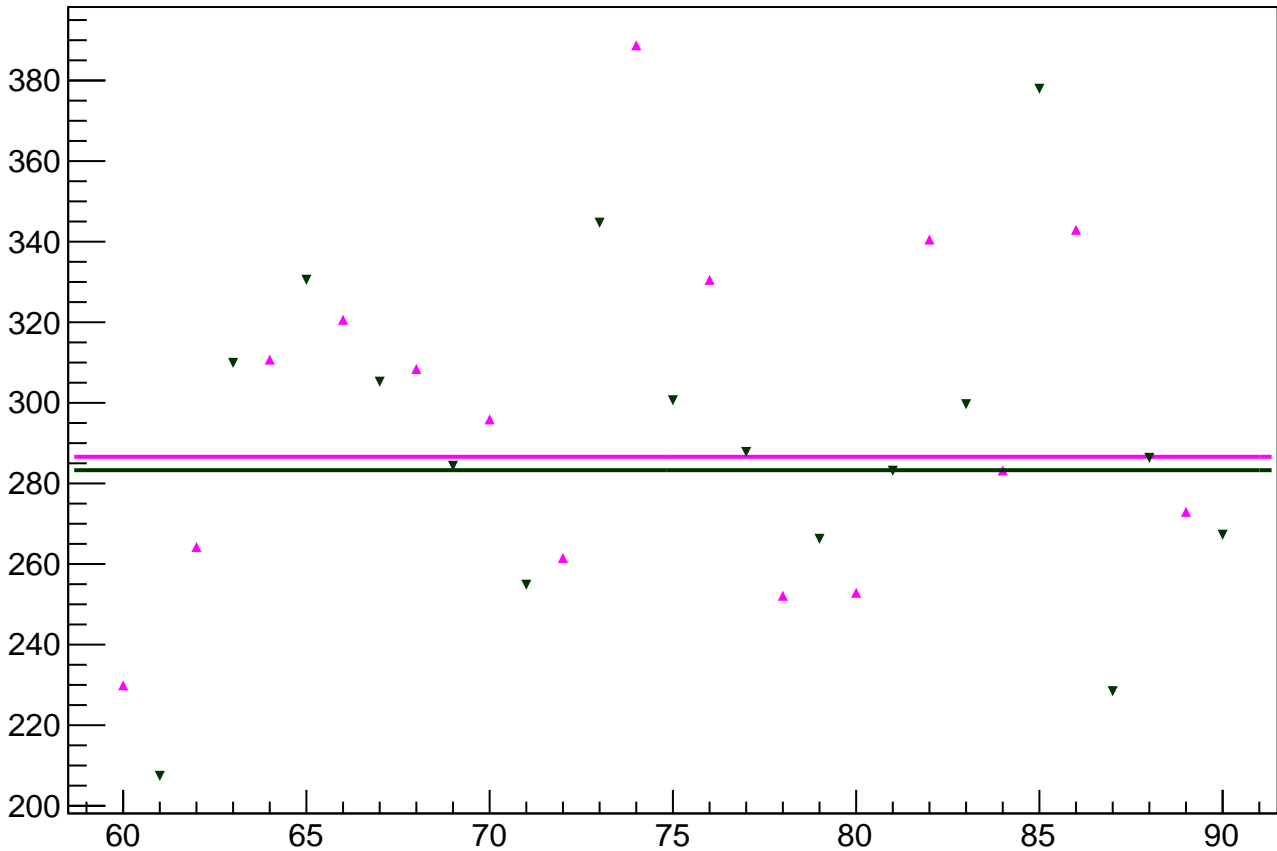
Left Out: 561.711+/-104.214  $\chi^2/\text{NDF}$ : 17.6/15

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

-369.518+/-105.453  $\chi^2/\text{NDF}$ : 15.4/14

Left In: -369.518+/-105.453  $\chi^2/\text{NDF}$ : 15.4/14

# asym\_us\_agg\_avg\_rms vs slug



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

Left Out: 283.290+/-0.074  $\chi^2/\text{NDF}$ : 289647.1/15

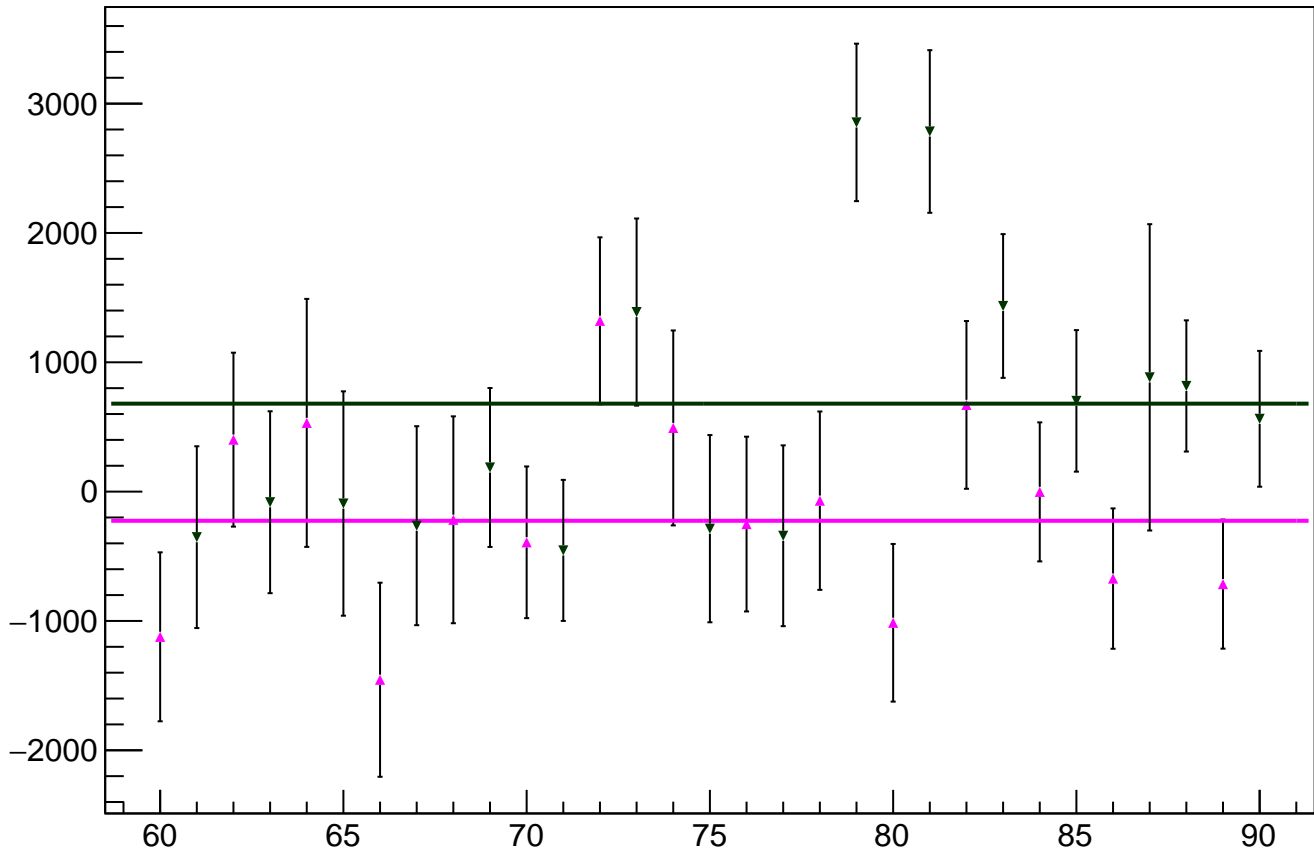
283.290+/-0.074  $\chi^2/\text{NDF}$ : 289647.1/15

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

Left In: 286.617+/-0.075  $\chi^2/\text{NDF}$ : 280530.9/14

286.617+/-0.075  $\chi^2/\text{NDF}$ : 280530.9/14

# asym\_us\_agg\_dd\_mean vs slug



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

680.180+/-160.184  $\chi^2/\text{NDF}$ : 41.4/15

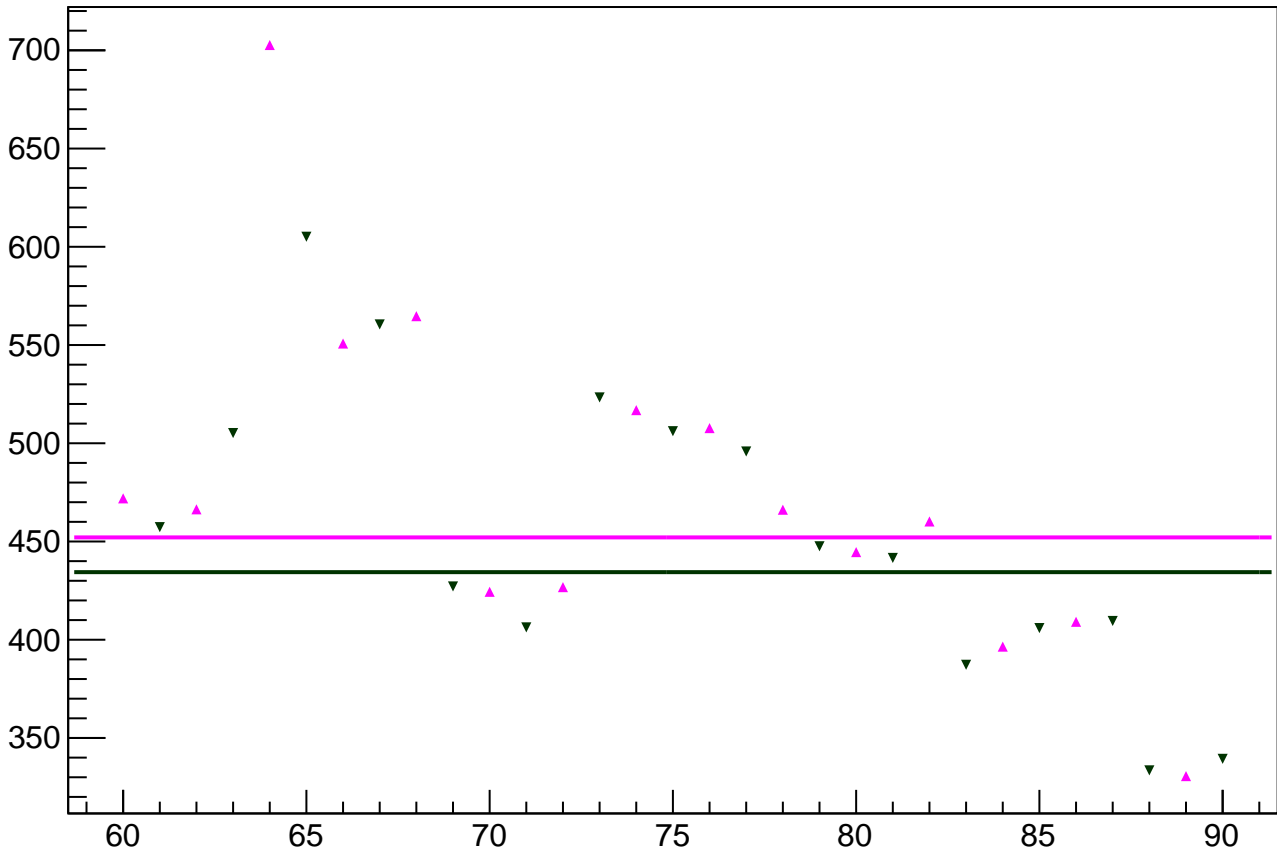
Left Out: 680.180+/-160.184  $\chi^2/\text{NDF}$ : 41.4/15

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

-225.510+/-166.023  $\chi^2/\text{NDF}$ : 18.2/14

Left In: -225.510+/-166.023  $\chi^2/\text{NDF}$ : 18.2/14

# asym\_us\_agg\_dd\_rms vs slug



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

Left Out: 434.399+/-0.113  $\chi^2$ /NDF:390976.4/15

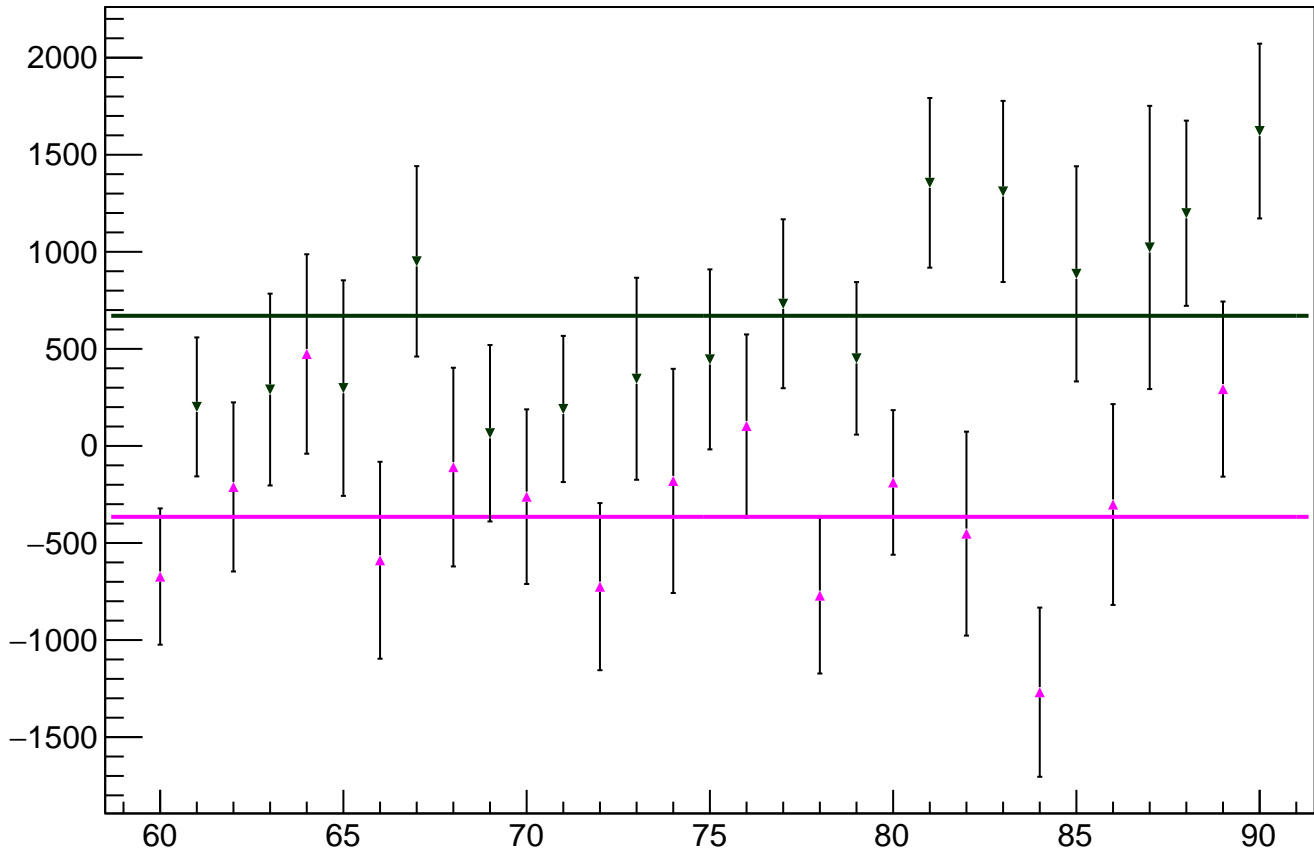
434.399+/-0.113  $\chi^2$ /NDF: 390976.4/15

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

Left In: 452.081+/-0.117  $\chi^2$ /NDF:403296.1/14

452.081+/-0.117  $\chi^2$ /NDF: 403296.1/14

# asym\_ds\_agg\_av\_mean vs slug



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

670.422+/-115.017  $\chi^2$ /NDF: 17.9/15

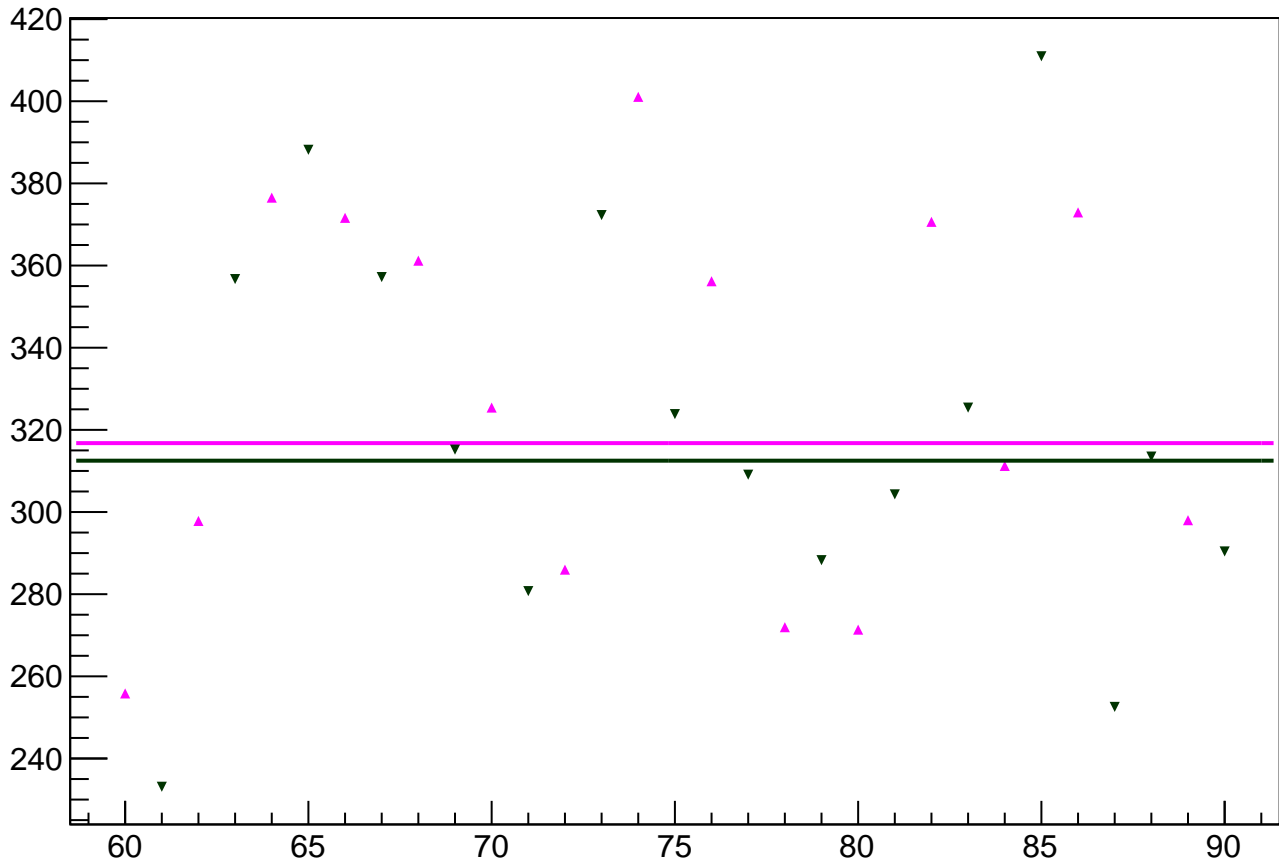
Left Out: 670.422+/-115.017  $\chi^2$ /NDF: 17.9/15

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

-365.280+/-116.512  $\chi^2$ /NDF: 13.6/14

Left In: -365.280+/-116.512  $\chi^2$ /NDF: 13.6/14

# asym\_ds\_agg\_av\_rms vs slug



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

Left Out: 312.498+/-0.081  $\chi^2/\text{NDF}$ : 301399.7/15

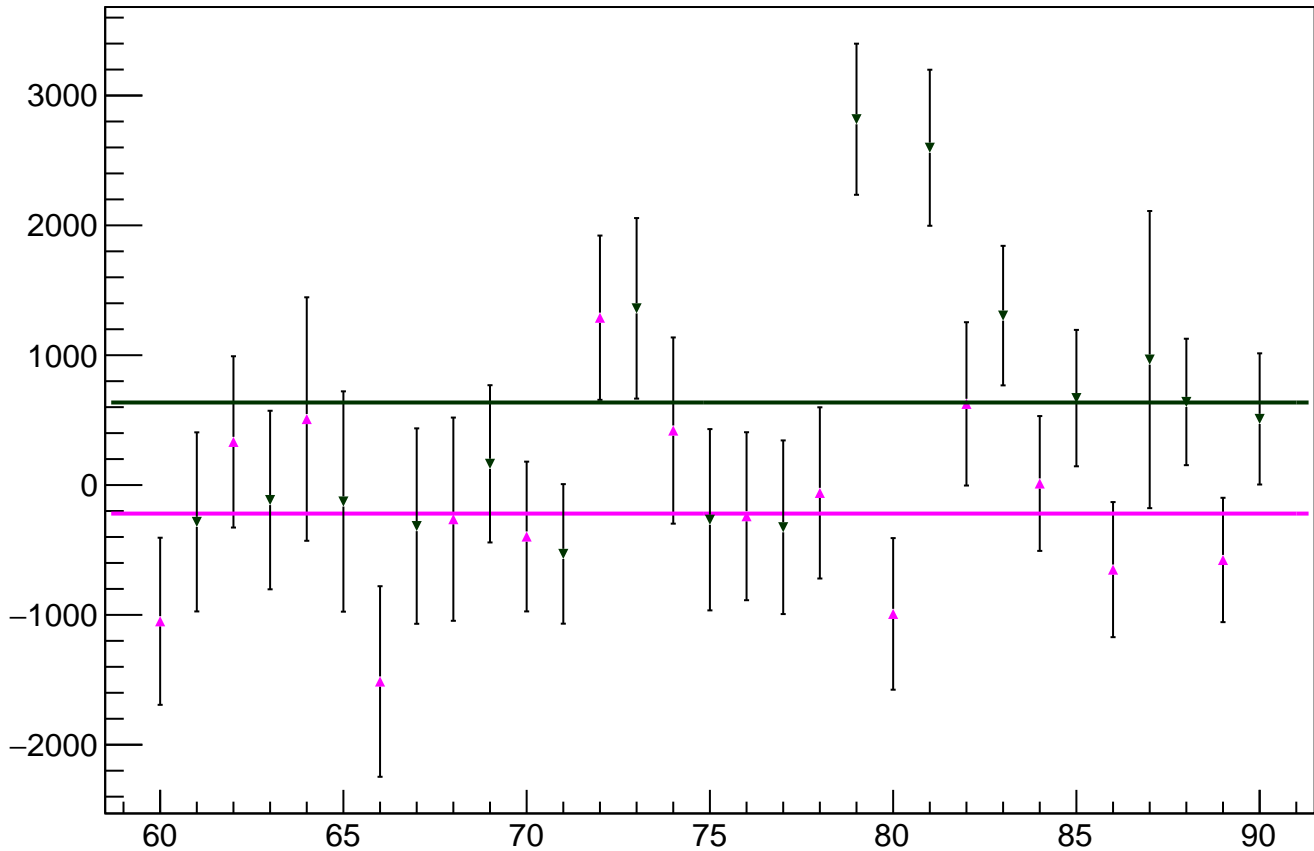
312.498+/-0.081  $\chi^2/\text{NDF}$ : 301399.7/15

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

316.773+/-0.082  $\chi^2/\text{NDF}$ : 300126.6/14

Left In: 316.773+/-0.082  $\chi^2/\text{NDF}$ : 300126.6/14

# asym\_ds\_agg\_dd\_mean vs slug



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

635.782+/-154.990  $\chi^2/\text{NDF}$ : 41.9/15

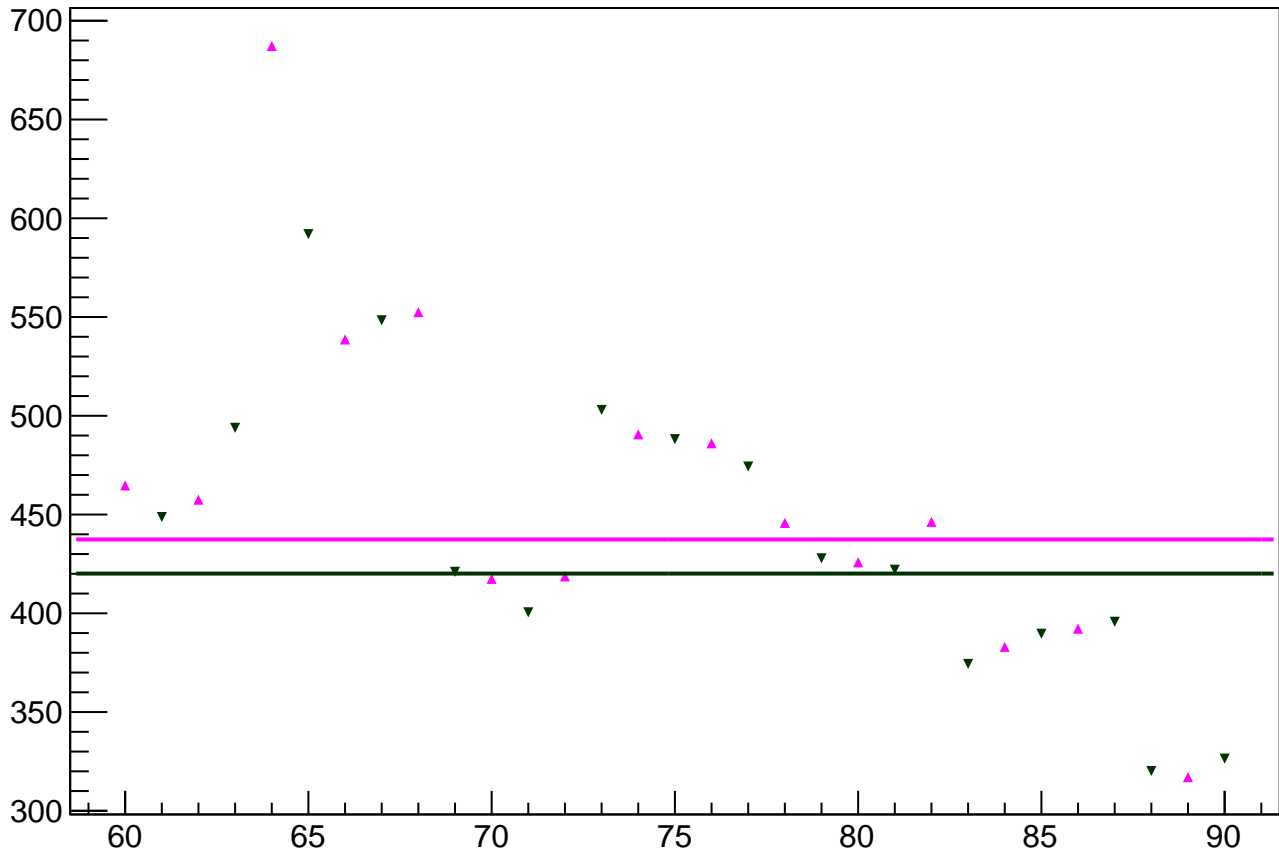
Left Out: 635.782+/-154.990  $\chi^2/\text{NDF}$ : 41.9/15

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

-219.804+/-160.732  $\chi^2/\text{NDF}$ : 17.7/14

Left In: -219.804+/-160.732  $\chi^2/\text{NDF}$ : 17.7/14

# asym\_ds\_agg\_dd\_rms vs slug



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

Left Out: 420.111+/-0.110  $\chi^2/\text{NDF}$ : 405401.5/15

420.111+/-0.110  $\chi^2/\text{NDF}$ : 405401.5/15

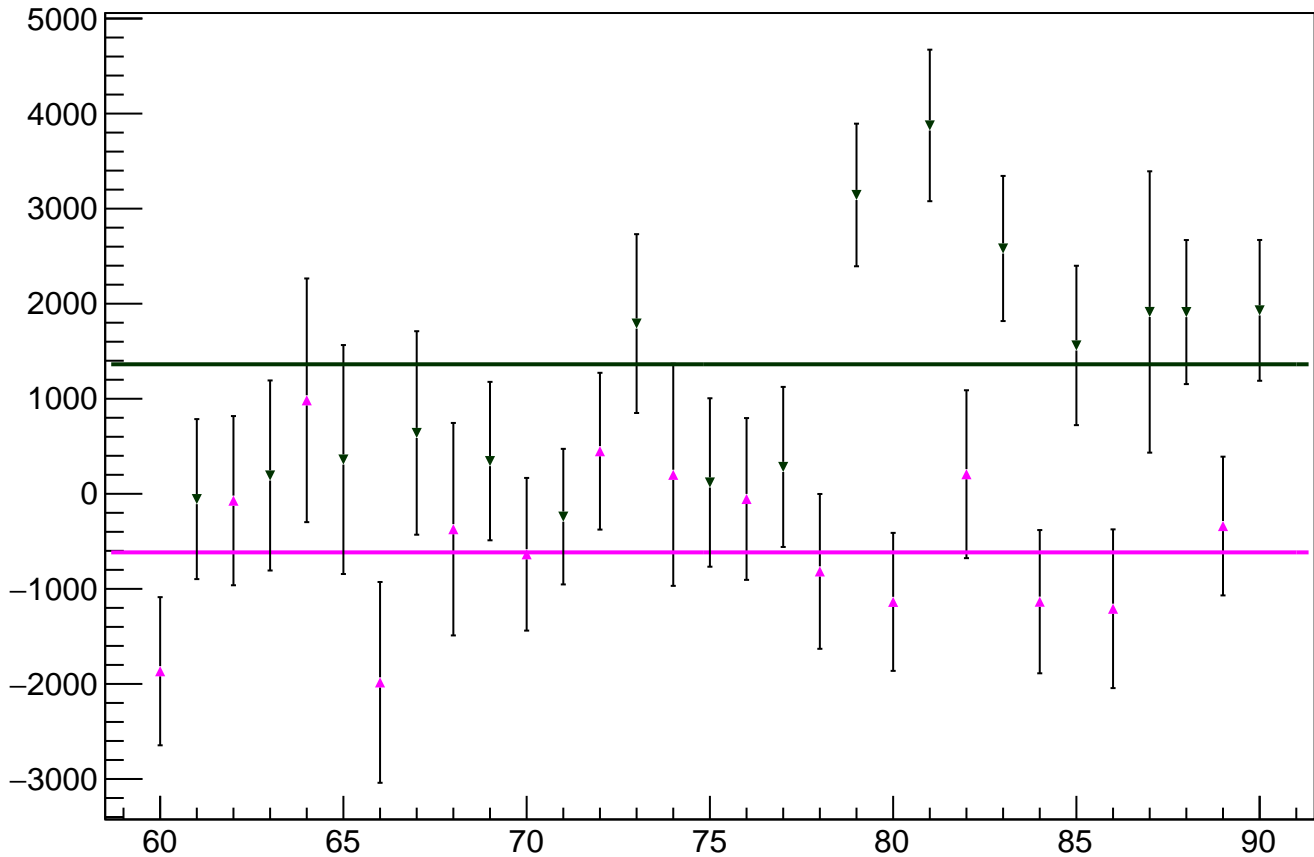
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 437.392+/-0.114  $\chi^2/\text{NDF}$ : 420145.0/14

437.392+/-0.114  $\chi^2/\text{NDF}$ : 420145.0/14



# asym\_left\_agg\_avg\_mean vs slug



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

Left Out: 1362.576+/-214.635  $\chi^2/\text{NDF}$ : 35.2/15

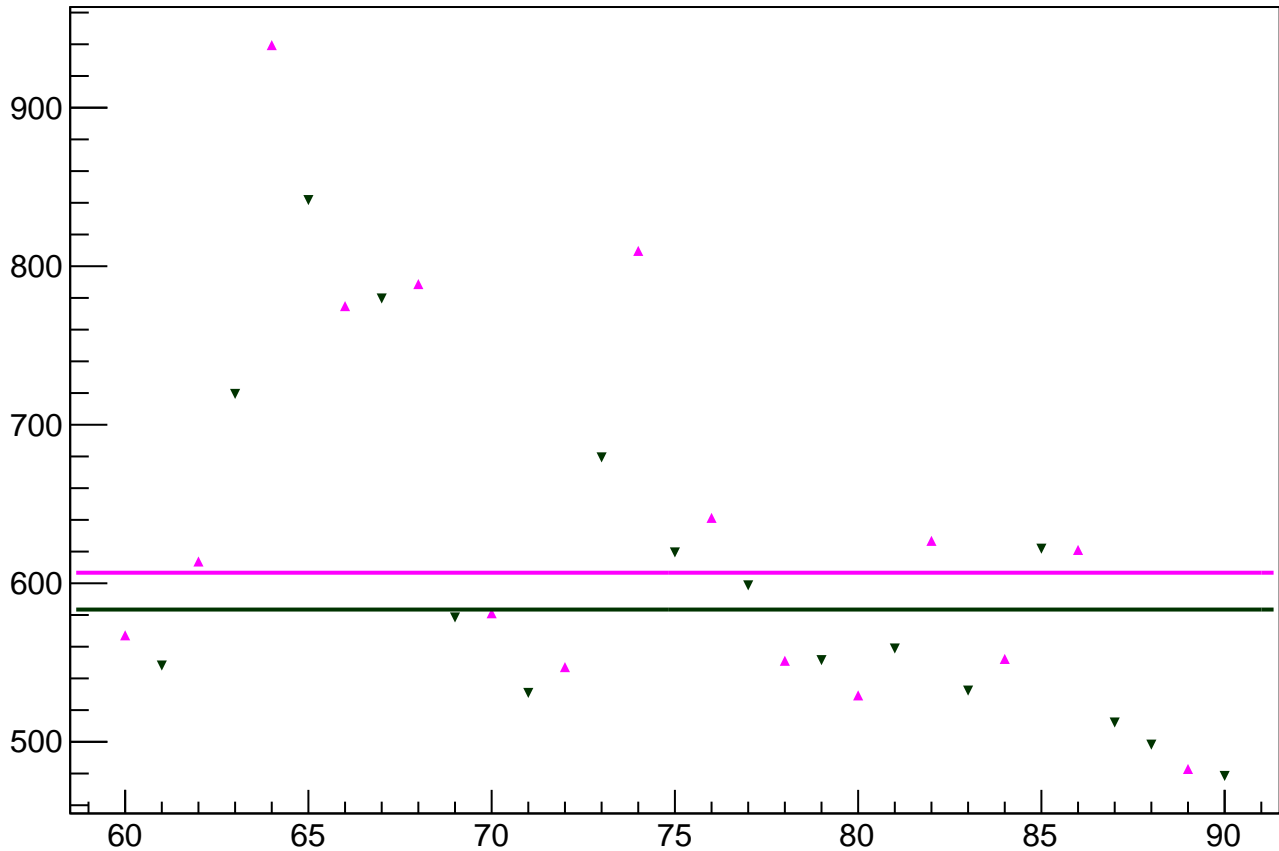
1362.576+/-214.635  $\chi^2/\text{NDF}$ : 35.2/15

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

-616.084+/-222.988  $\chi^2/\text{NDF}$ : 11.4/14

Left In: -616.084+/-222.988  $\chi^2/\text{NDF}$ : 11.4/14

# asym\_left\_agg\_avg\_rms vs slug



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

Left Out: 583.431+/-0.152  $\chi^2/\text{NDF}$ : 324273.2/15

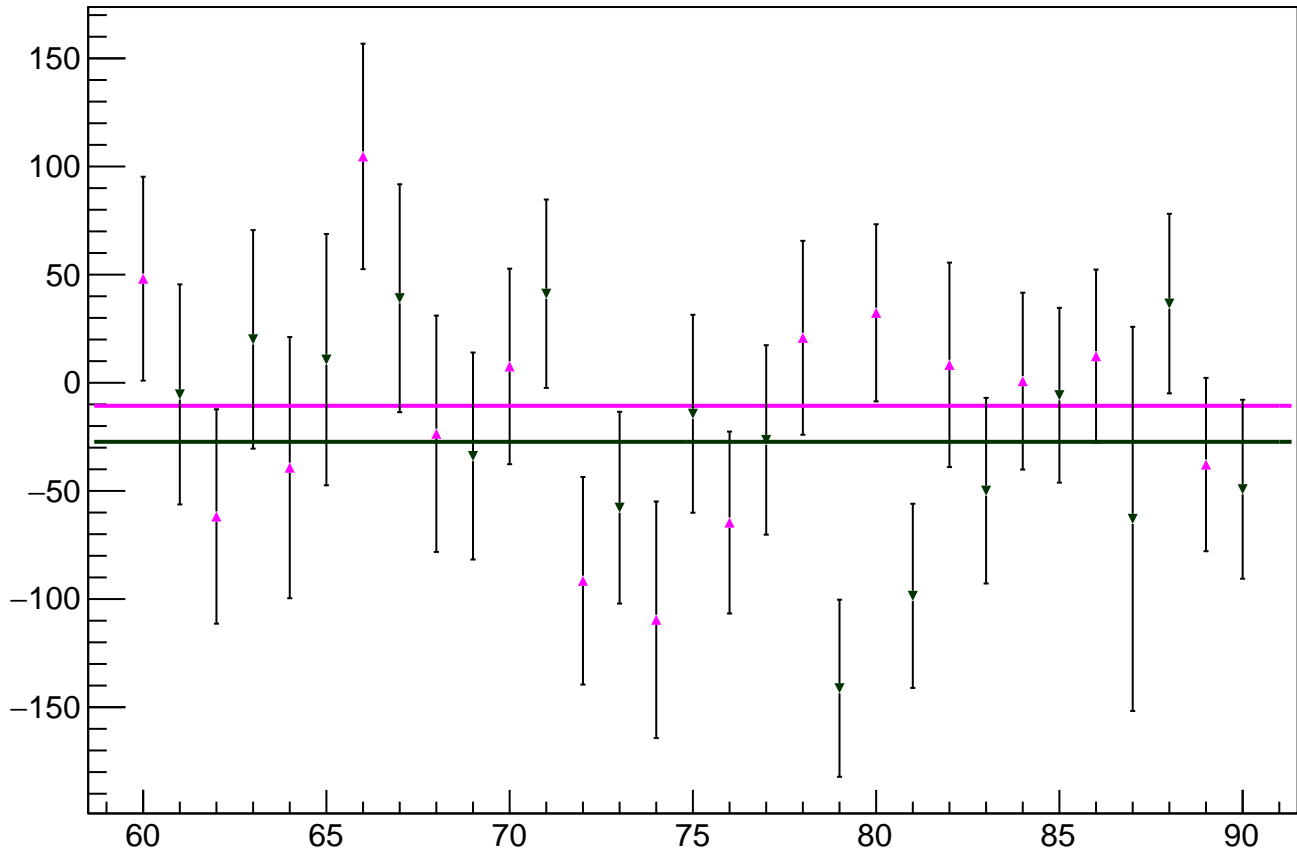
583.431+/-0.152  $\chi^2/\text{NDF}$ : 324273.2/15

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

606.665+/-0.158  $\chi^2/\text{NDF}$ : 421638.9/14

Left In: 606.665+/-0.158  $\chi^2/\text{NDF}$ : 421638.9/14

# asym\_left\_agg\_dd\_mean vs slug



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

Left Out: -27.295+/-11.546  $\chi^2$ /NDF:20.0/15

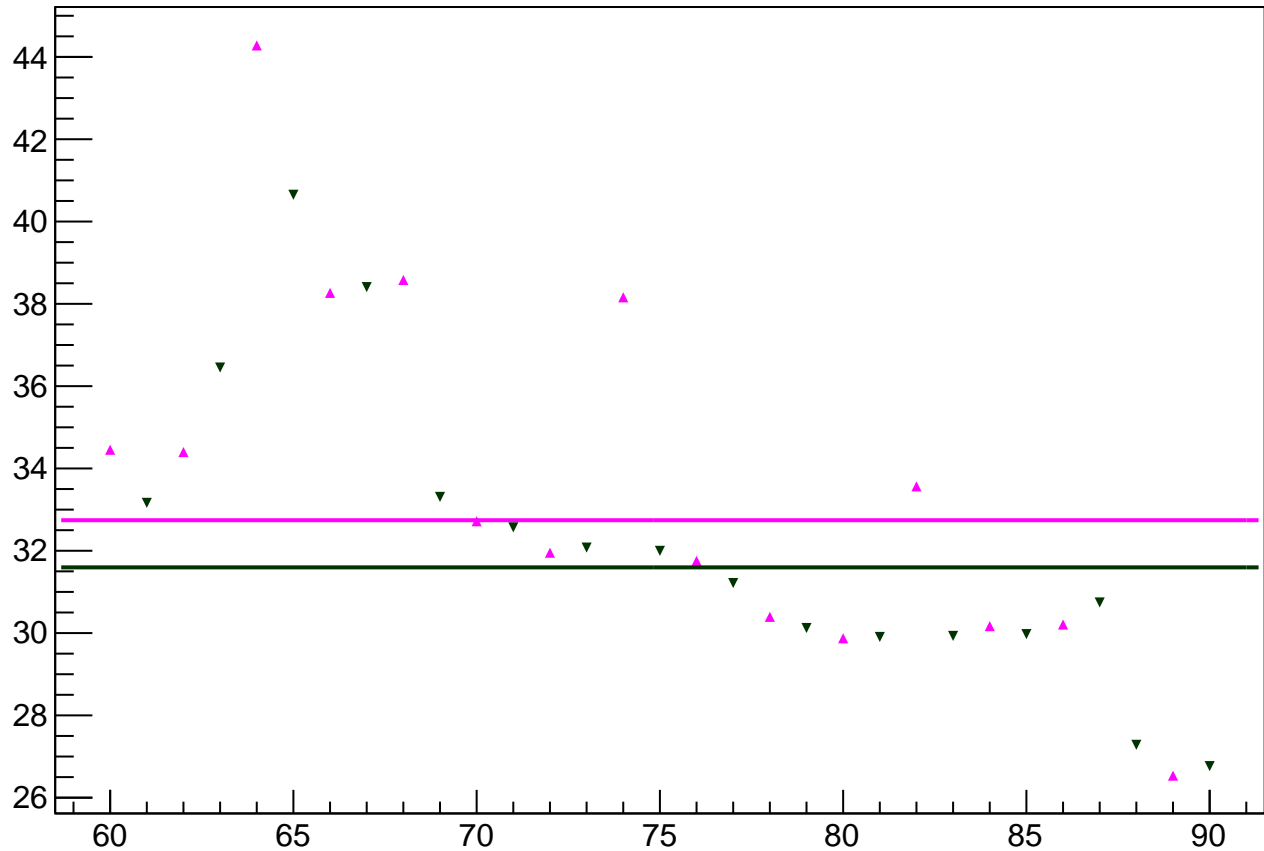
-27.295+/-11.546  $\chi^2$ /NDF: 20.0/15

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

Left In: -10.639+/-11.915  $\chi^2$ /NDF:18.3/14

-10.639+/-11.915  $\chi^2$ /NDF: 18.3/14

# asym\_left\_agg\_dd\_rms vs slug



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

Left Out: 31.596+/-0.008  $\chi^2/\text{NDF}$ :167428.4/15

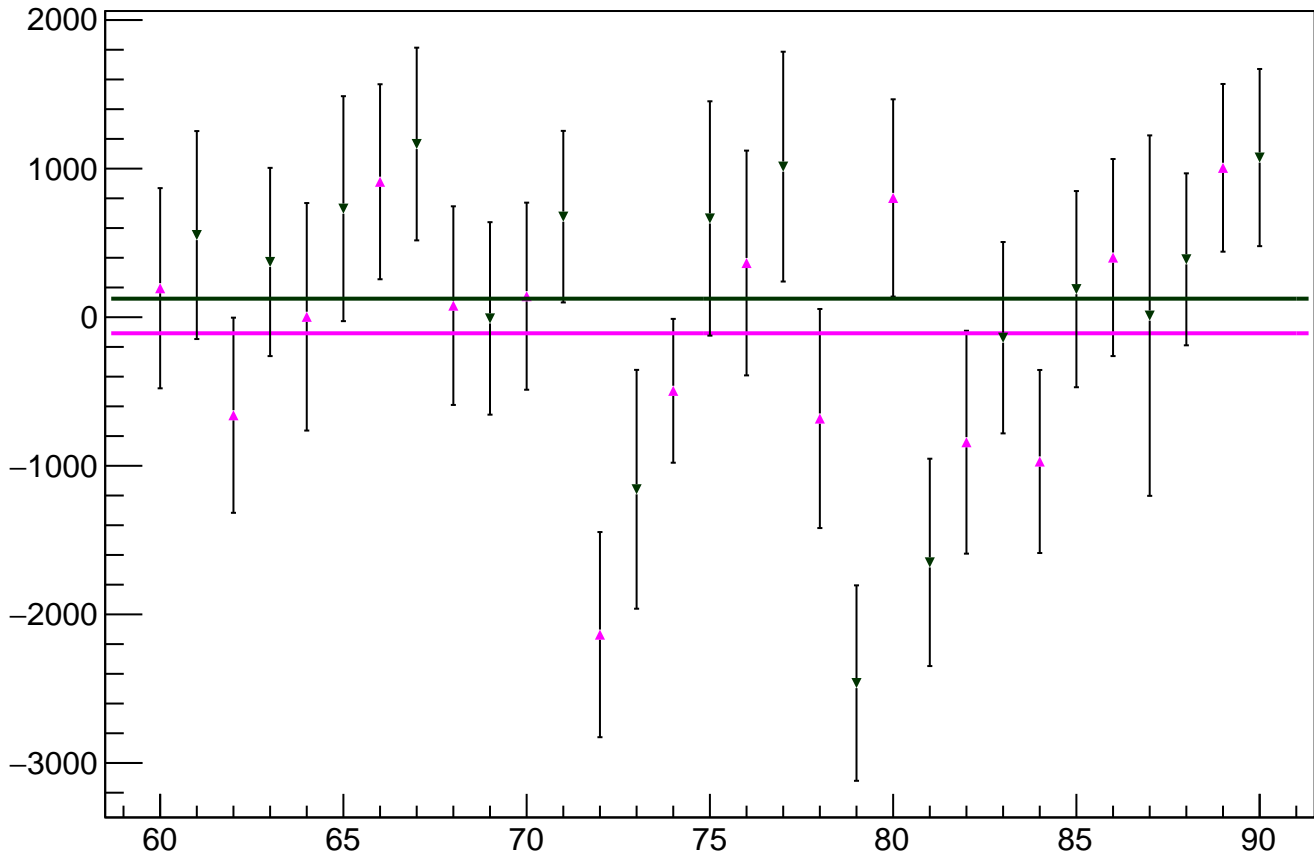
31.596+/-0.008  $\chi^2/\text{NDF}$ : 167428.4/15

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

32.742+/-0.008  $\chi^2/\text{NDF}$ : 224285.7/14

Left In: 32.742+/-0.008  $\chi^2/\text{NDF}$ :224285.7/14

# asym\_right\_agg\_avg\_mean vs slug



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

Left Out: 124.772+/-170.445  $\chi^2$ /NDF:33.9/15

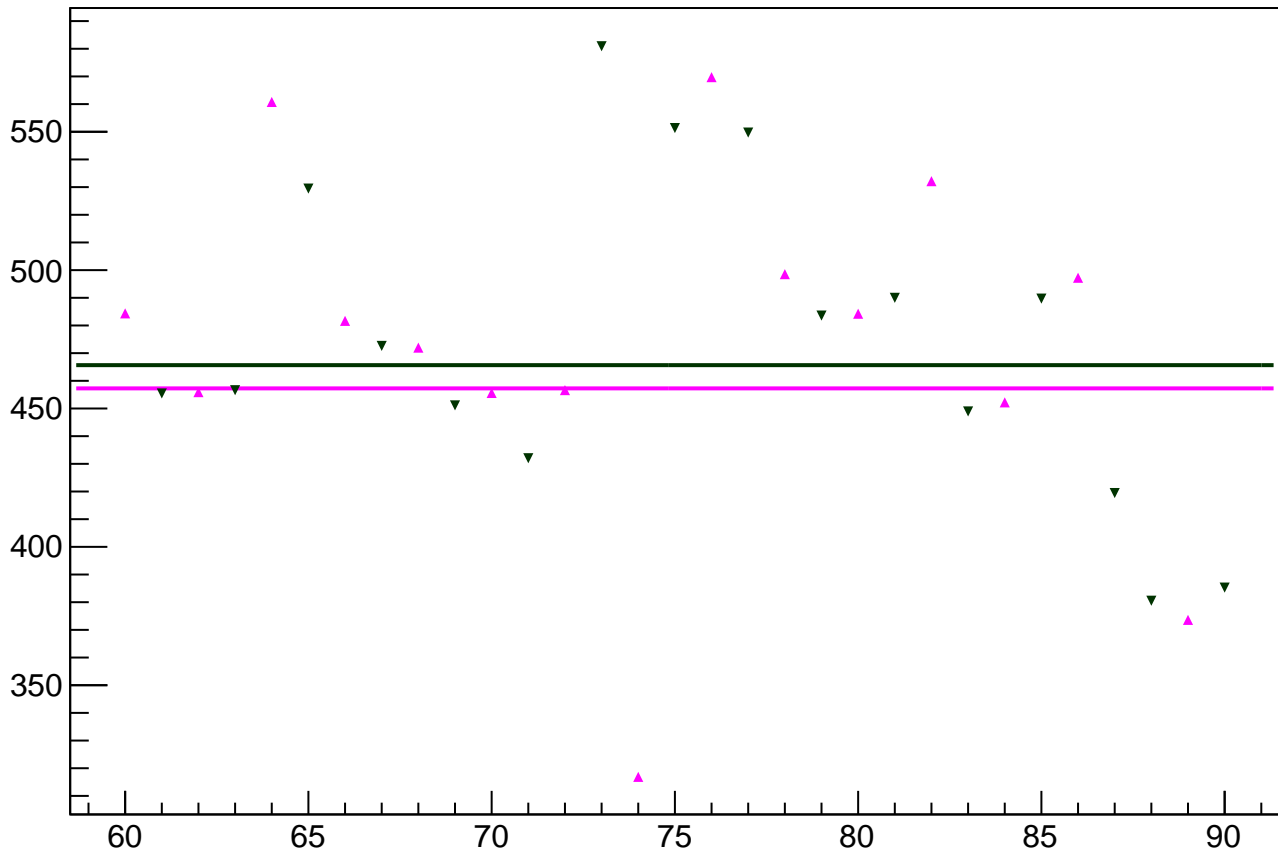
124.772+/-170.445  $\chi^2$ /NDF: 33.9/15

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

-108.130+/-168.160  $\chi^2$ /NDF: 23.1/14

Left In: -108.130+/-168.160  $\chi^2$ /NDF:23.1/14

# asym\_right\_agg\_avg\_rms vs slug



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

Left Out: 465.665+/-0.121  $\chi^2/\text{NDF}$ : 201906.3/15

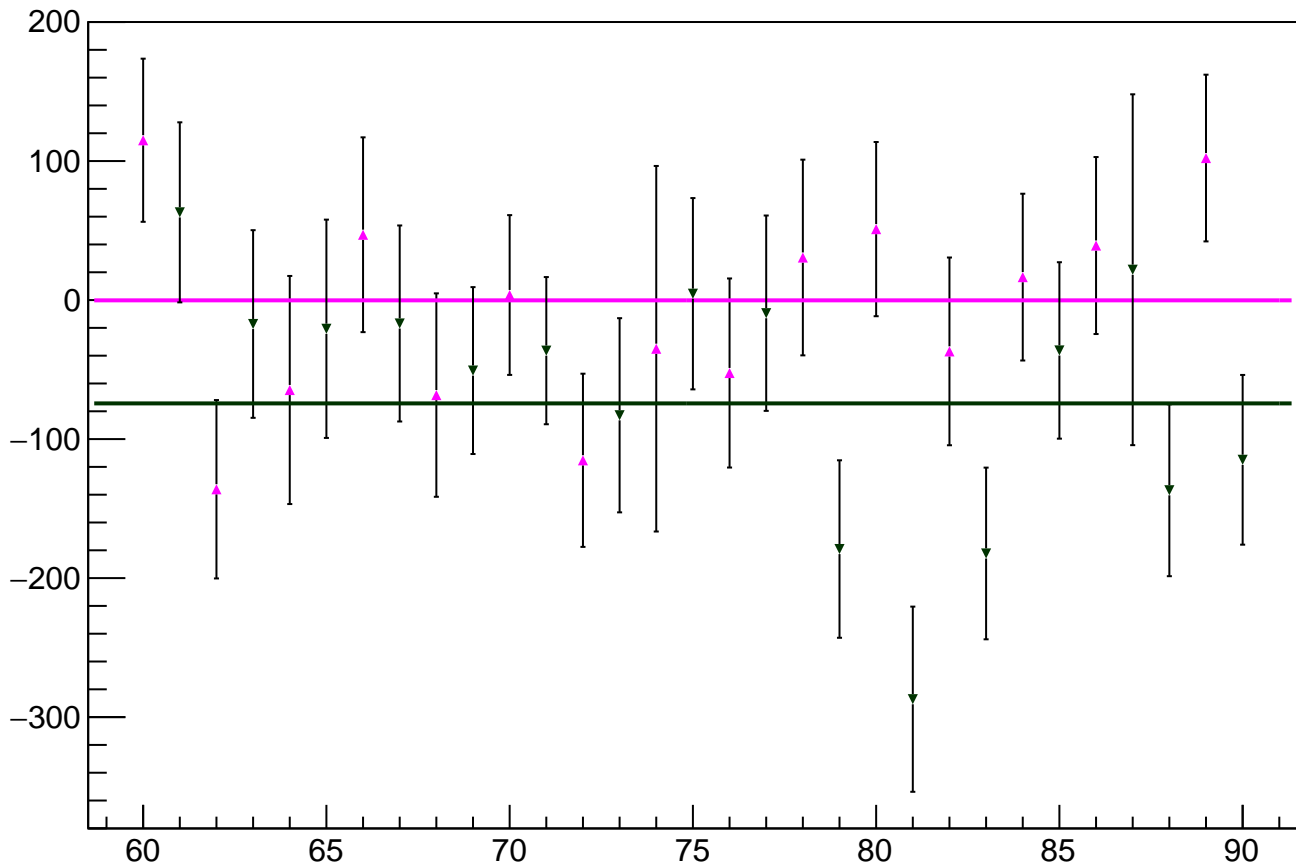
465.665+/-0.121  $\chi^2/\text{NDF}$ : 201906.3/15

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

Left In: 457.267+/-0.119  $\chi^2/\text{NDF}$ : 336890.4/14

457.267+/-0.119  $\chi^2/\text{NDF}$ : 336890.4/14

# asym\_right\_agg\_dd\_mean vs slug



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

Left Out: -74.328+/-16.555  $\chi^2$ /NDF:27.6/15

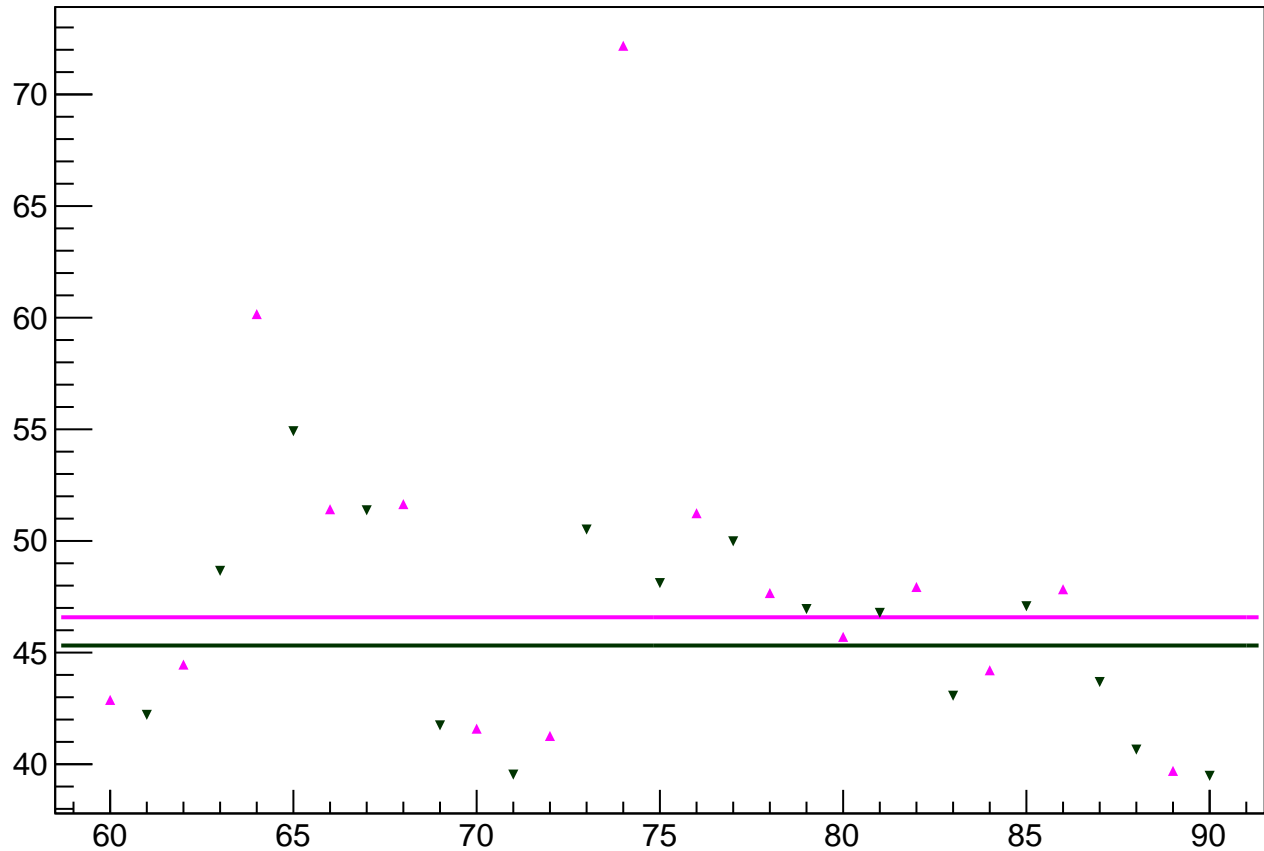
-74.328+/-16.555  $\chi^2$ /NDF: 27.6/15

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

-0.198+/-17.186  $\chi^2$ /NDF: 18.9/14

Left In: -0.198+/-17.186  $\chi^2$ /NDF:18.9/14

# asym\_right\_agg\_dd\_rms vs slug



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

Left Out: 45.317+/-0.012  $\chi^2$ /NDF:144750.3/15

45.317+/-0.012  $\chi^2$ /NDF: 144750.3/15

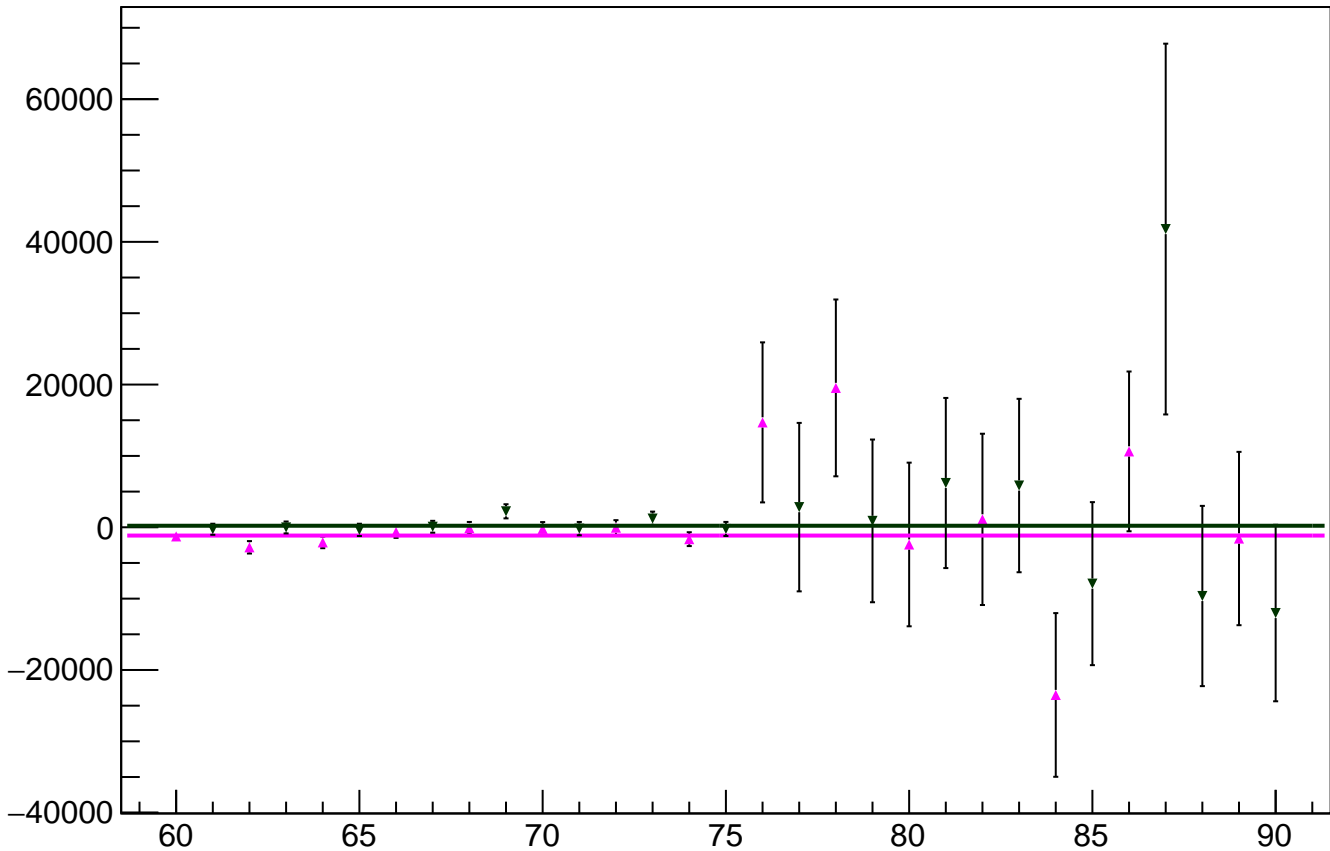
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

46.582+/-0.012  $\chi^2$ /NDF: 230848.6/14

Left In: 46.582+/-0.012  $\chi^2$ /NDF:230848.6/14



# reg\_asym\_atl1\_mean vs slug



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

Left Out: 214.148+/-313.236  $\chi^2/\text{NDF}$ : 11.8/15

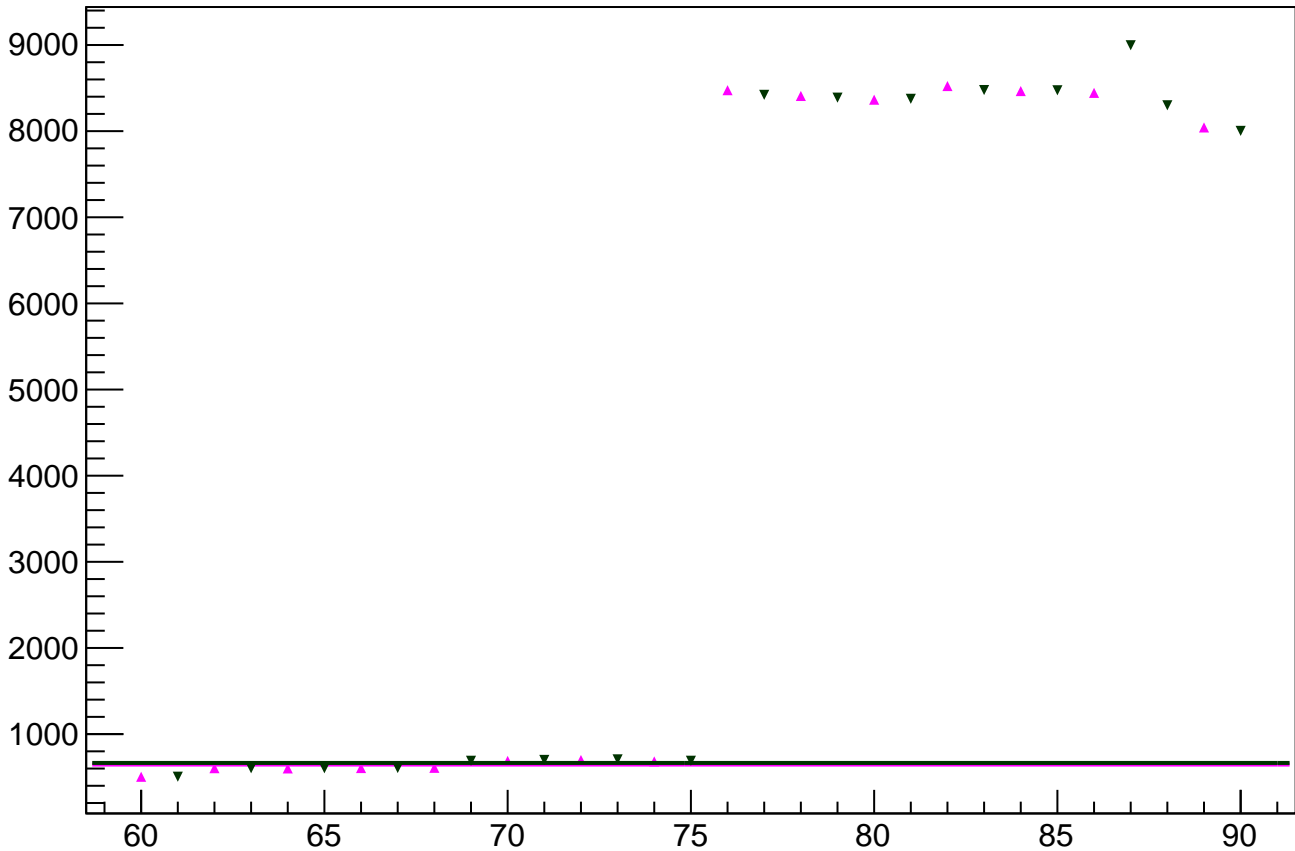
214.148+/-313.236  $\chi^2/\text{NDF}$ : 11.8/15

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

-1161.301+/-303.207  $\chi^2/\text{NDF}$ : 18.9/14

Left In: -1161.301+/-303.207  $\chi^2/\text{NDF}$ : 18.9/14

# reg\_asym\_atl1\_rms vs slug



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

Left Out: 665.219+/-0.221  $\chi^2$ /NDF: 6145097.0/15

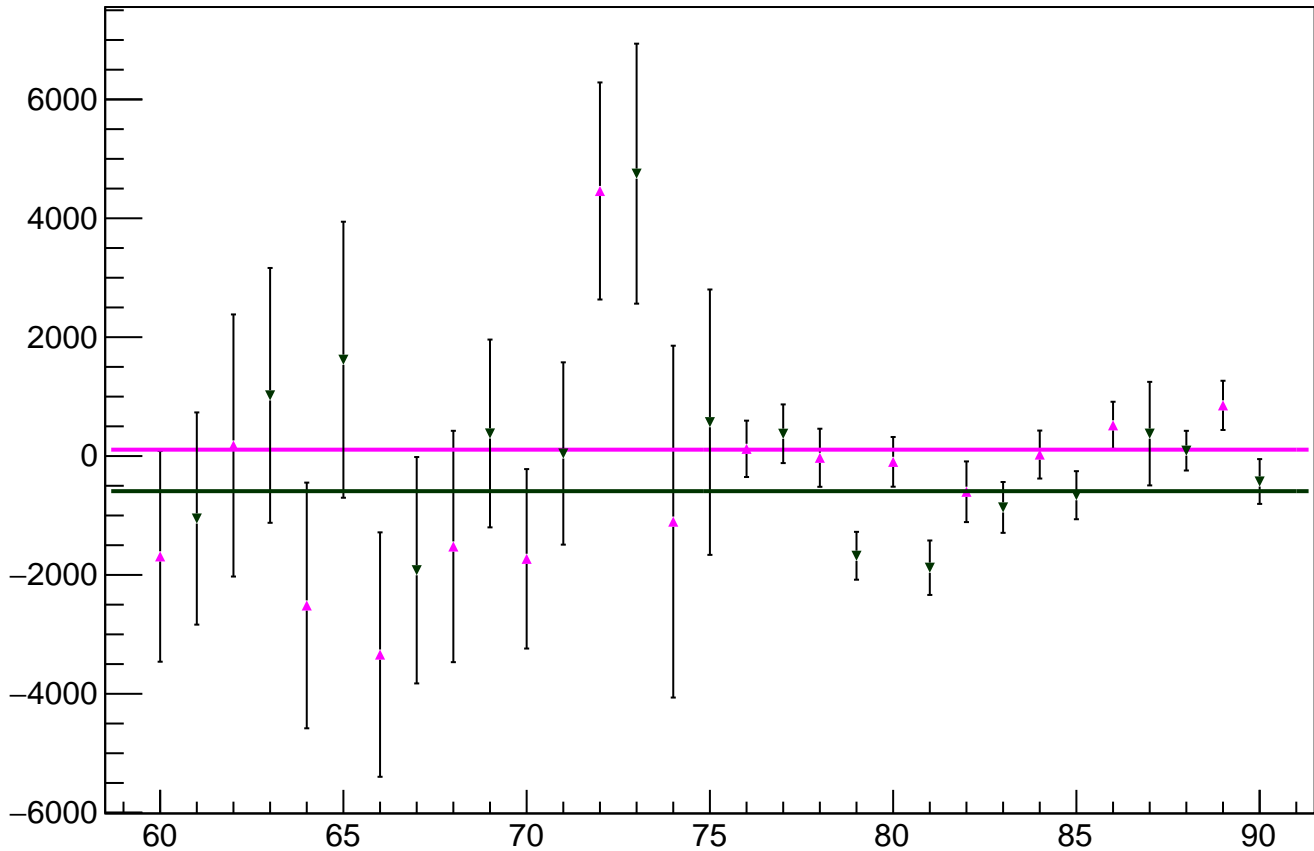
665.219+/-0.221  $\chi^2$ /NDF: 6145097.0/15

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

646.149+/-0.214  $\chi^2$ /NDF: 6285264.8/14

Left In: 646.149+/-0.214  $\chi^2$ /NDF: 6285264.8/14

# asym\_atl1\_correction\_mean vs slug



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

-590.665+/-147.158  $\chi^2/\text{NDF}$ : 33.9/15

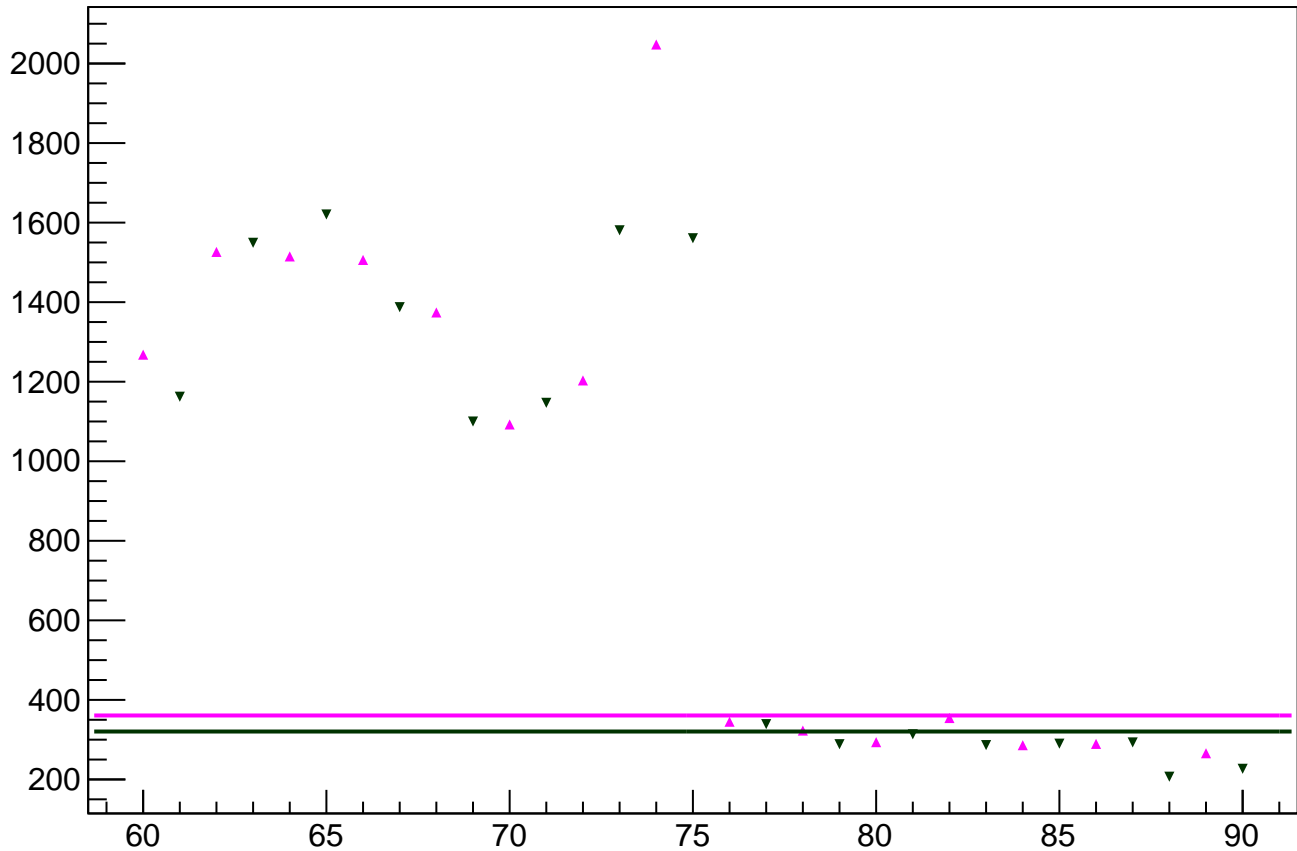
Left Out: -590.665+/-147.158  $\chi^2/\text{NDF}$ : 33.9/15

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

107.426+/-160.884  $\chi^2/\text{NDF}$ : 20.1/14

Left In: 107.426+/-160.884  $\chi^2/\text{NDF}$ : 20.1/14

# asym\_atl1\_correction\_rms vs slug



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

Left Out: 320.500+/-0.104  $\chi^2$ /NDF:5102640.6/15

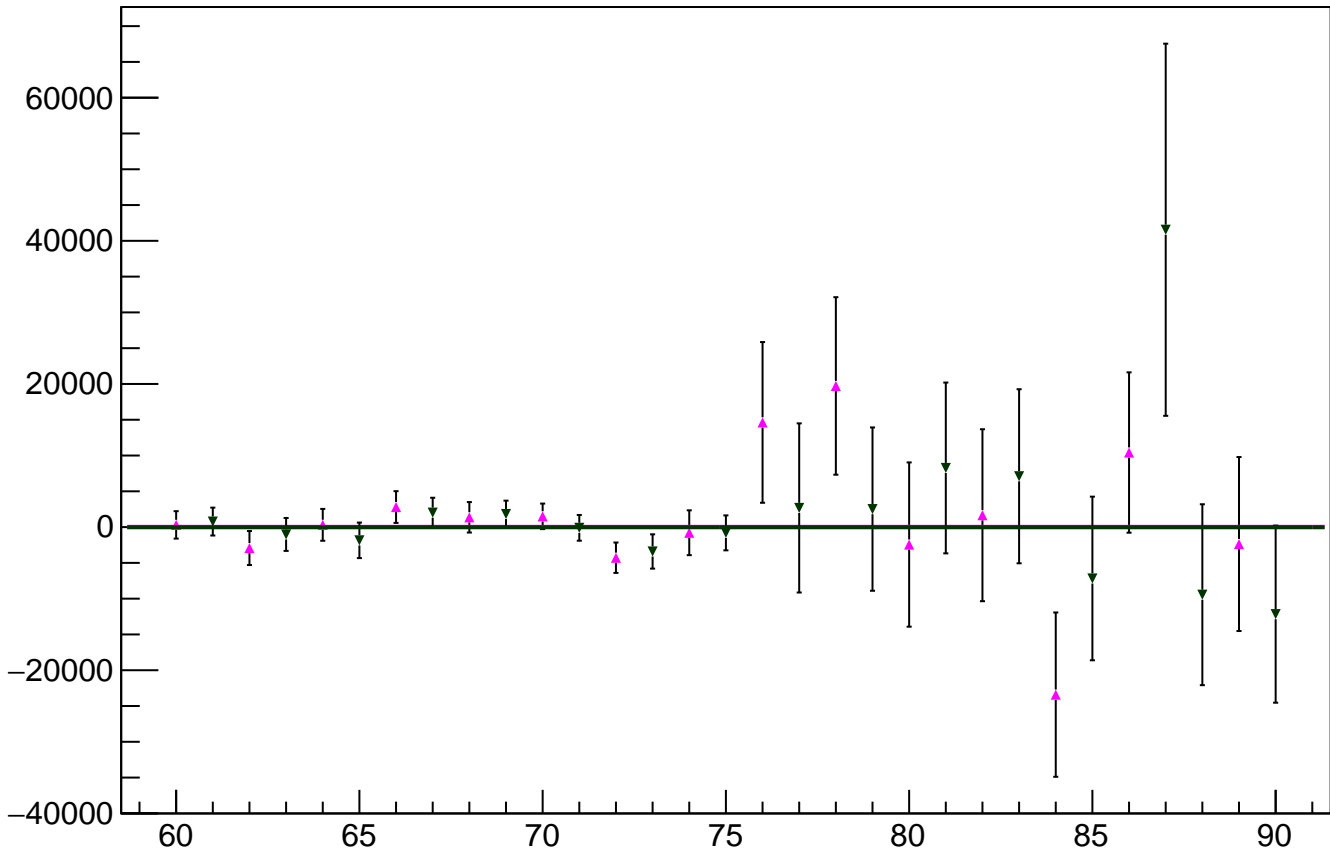
320.500+/-0.104  $\chi^2$ /NDF: 5102640.6/15

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

360.838+/-0.114  $\chi^2$ /NDF: 4719209.7/14

Left In: 360.838+/-0.114  $\chi^2$ /NDF:4719209.7/14

# asym\_atl1\_mean vs slug



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

Left Out: -24.505+/-738.219  $\chi^2$ /NDF:10.3/15

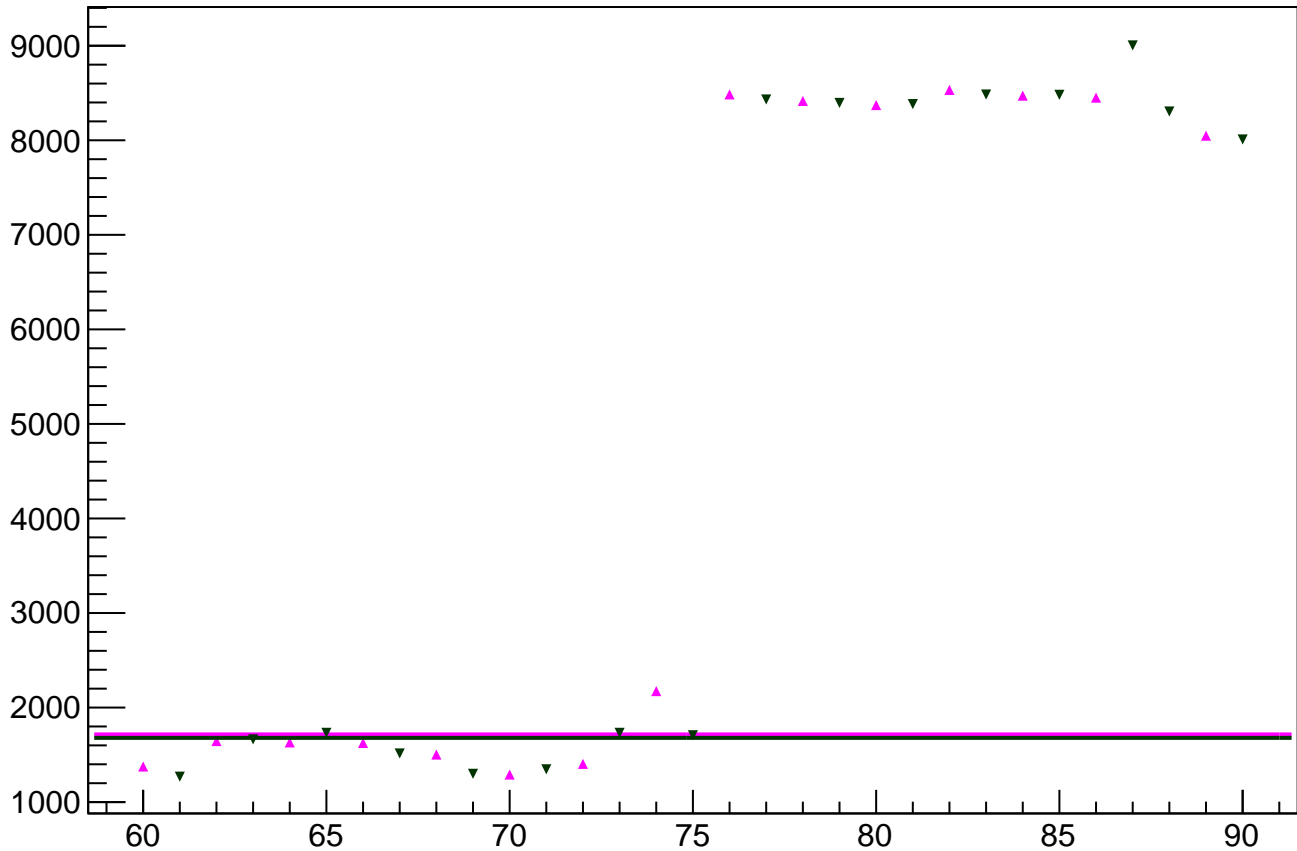
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 38.510+/-752.843  $\chi^2$ /NDF:17.8/14

-24.505+/-738.219  $\chi^2$ /NDF: 10.3/15

38.510+/-752.843  $\chi^2$ /NDF: 17.8/14

# asym\_atl1\_rms vs slug



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

1679.433+/-0.522  $\chi^2$ /NDF: 4797068.3/15

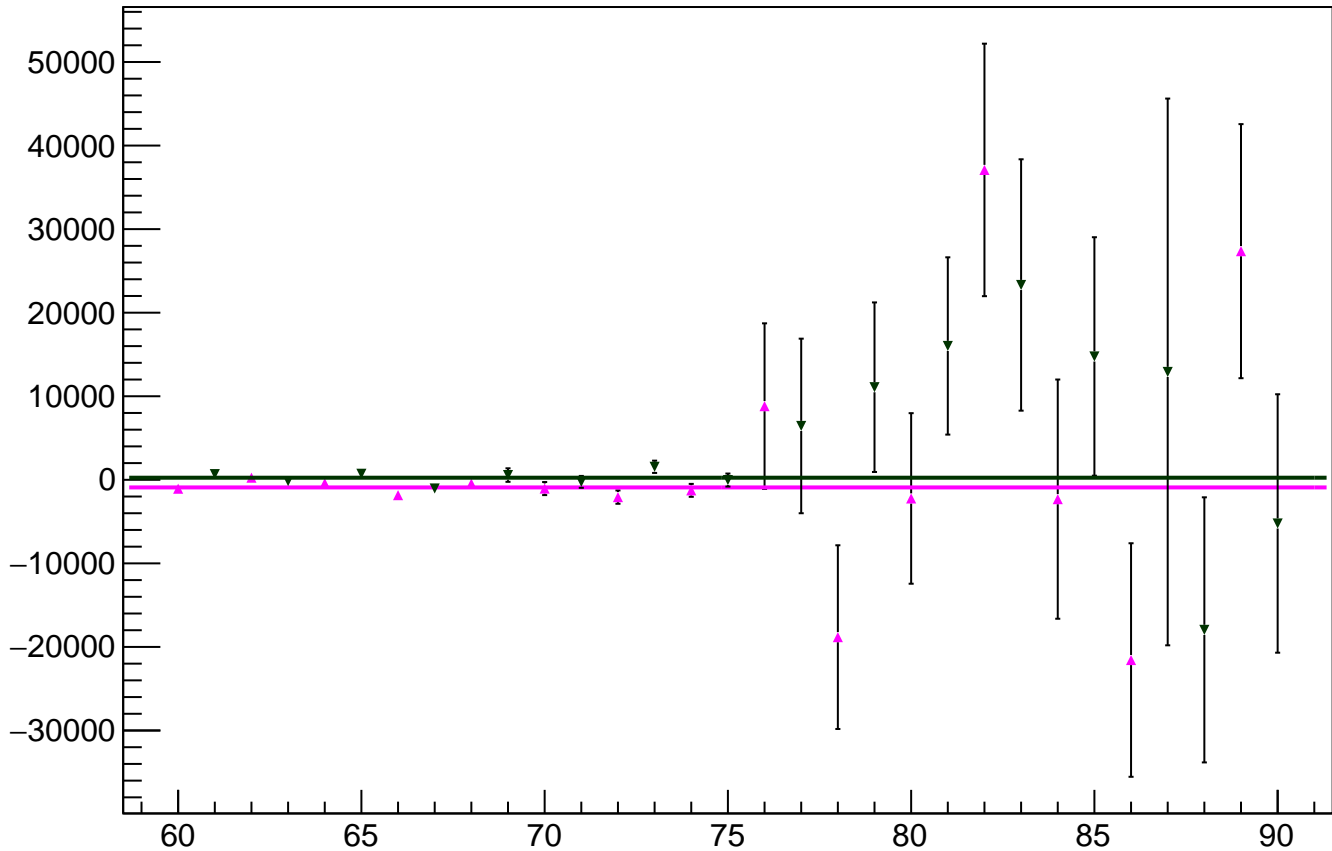
Left Out: 1679.433+/-0.522  $\chi^2$ /NDF: 4797068.3/15

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

1715.977+/-0.532  $\chi^2$ /NDF: 4875134.4/14

Left In: 1715.977+/-0.532  $\chi^2$ /NDF: 4875134.4/14

# reg\_asym\_atl2\_mean vs slug



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

Left Out: 251.363+/-220.861  $\chi^2$ /NDF:19.7/15

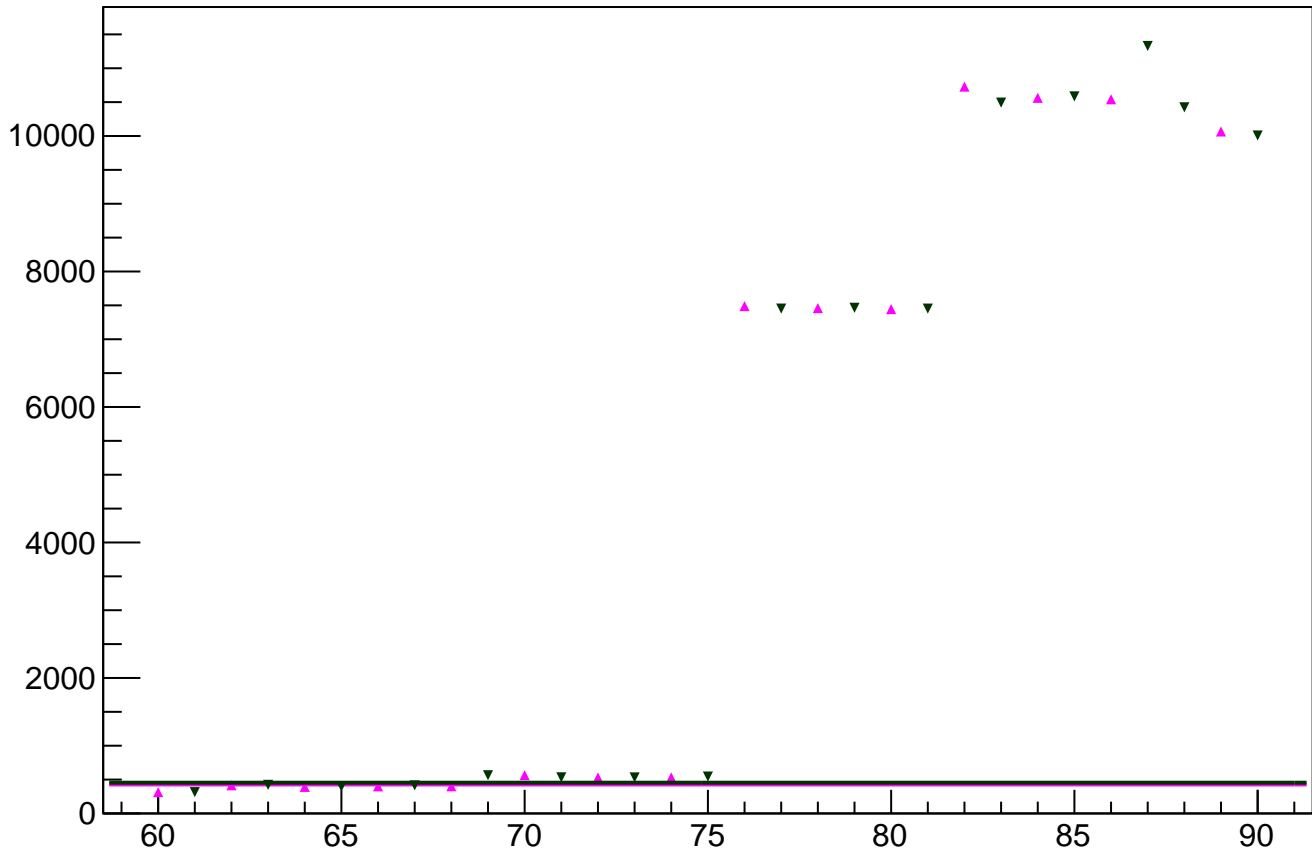
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -911.332+/-208.047  $\chi^2$ /NDF:26.3/14

251.363+/-220.861  $\chi^2$ /NDF: 19.7/15

-911.332+/-208.047  $\chi^2$ /NDF: 26.3/14

# reg\_asym\_atl2\_rms vs slug



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

Left Out: 453.889+/-0.156  $\chi^2$ /NDF:6712008.8/15

453.889+/-0.156  $\chi^2$ /NDF: 6712008.8/15

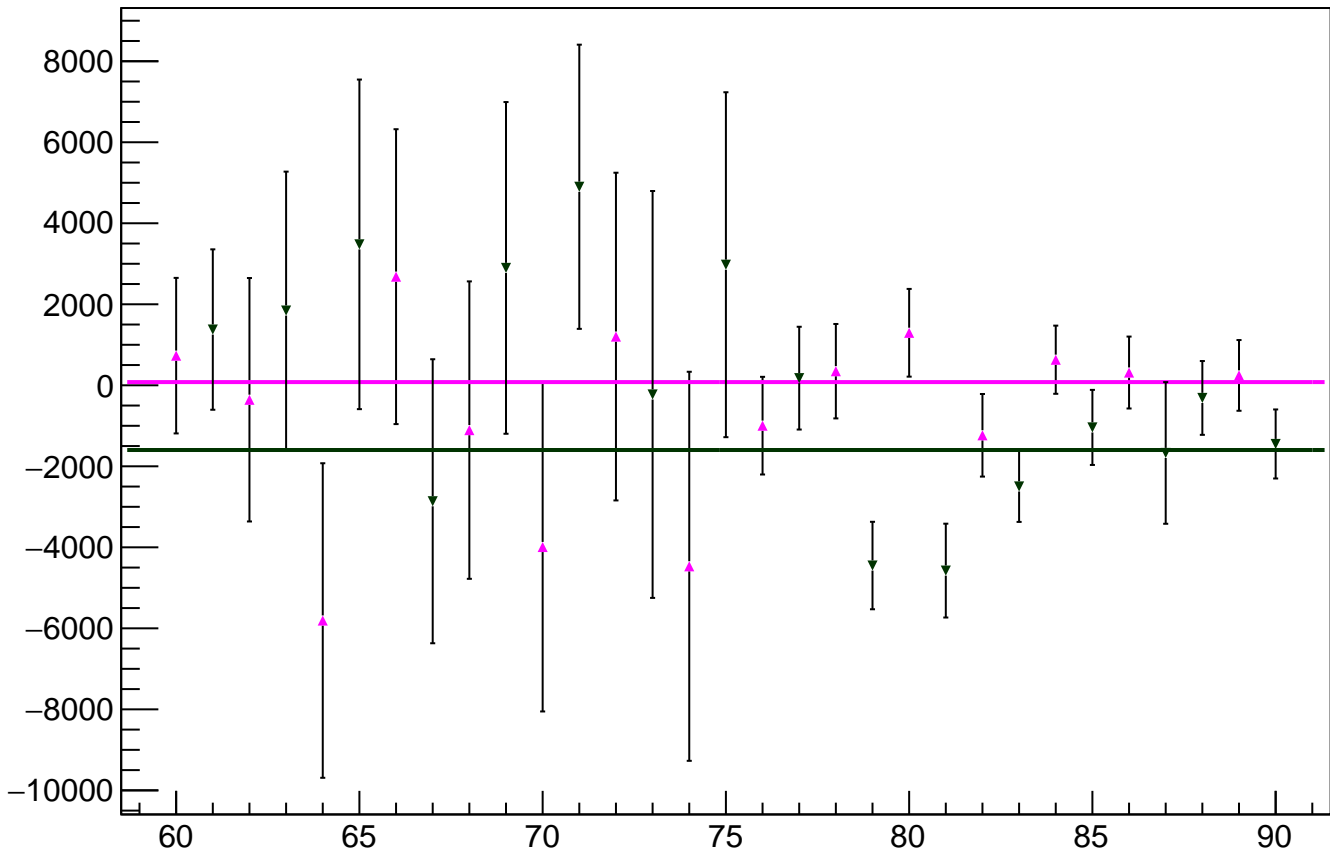
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

428.041+/-0.147  $\chi^2$ /NDF: 6853265.5/14

Left In: 428.041+/-0.147  $\chi^2$ /NDF:6853265.5/14



# asym\_atl2\_correction\_mean vs slug



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

-1597.611+/-346.705  $\chi^2$ /NDF: 29.8/15

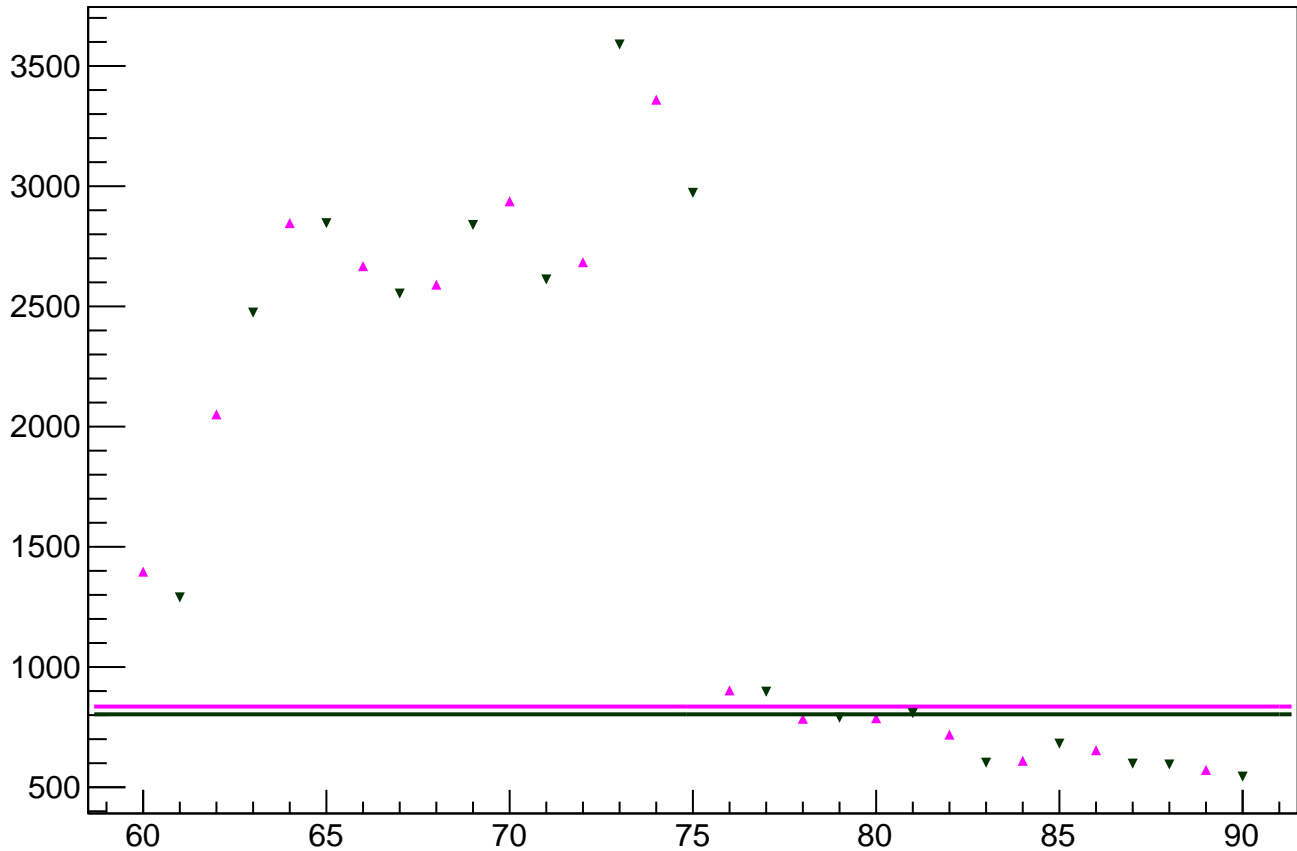
Left Out: -1597.611+/-346.705  $\chi^2$ /NDF:29.8/15

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

79.002+/-353.664  $\chi^2$ /NDF: 9.3/14

Left In: 79.002+/-353.664  $\chi^2$ /NDF:9.3/14

# asym\_atl2\_correction\_rms vs slug



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

Left Out: 803.284+/-0.245  $\chi^2$ /NDF:4227354.8/15

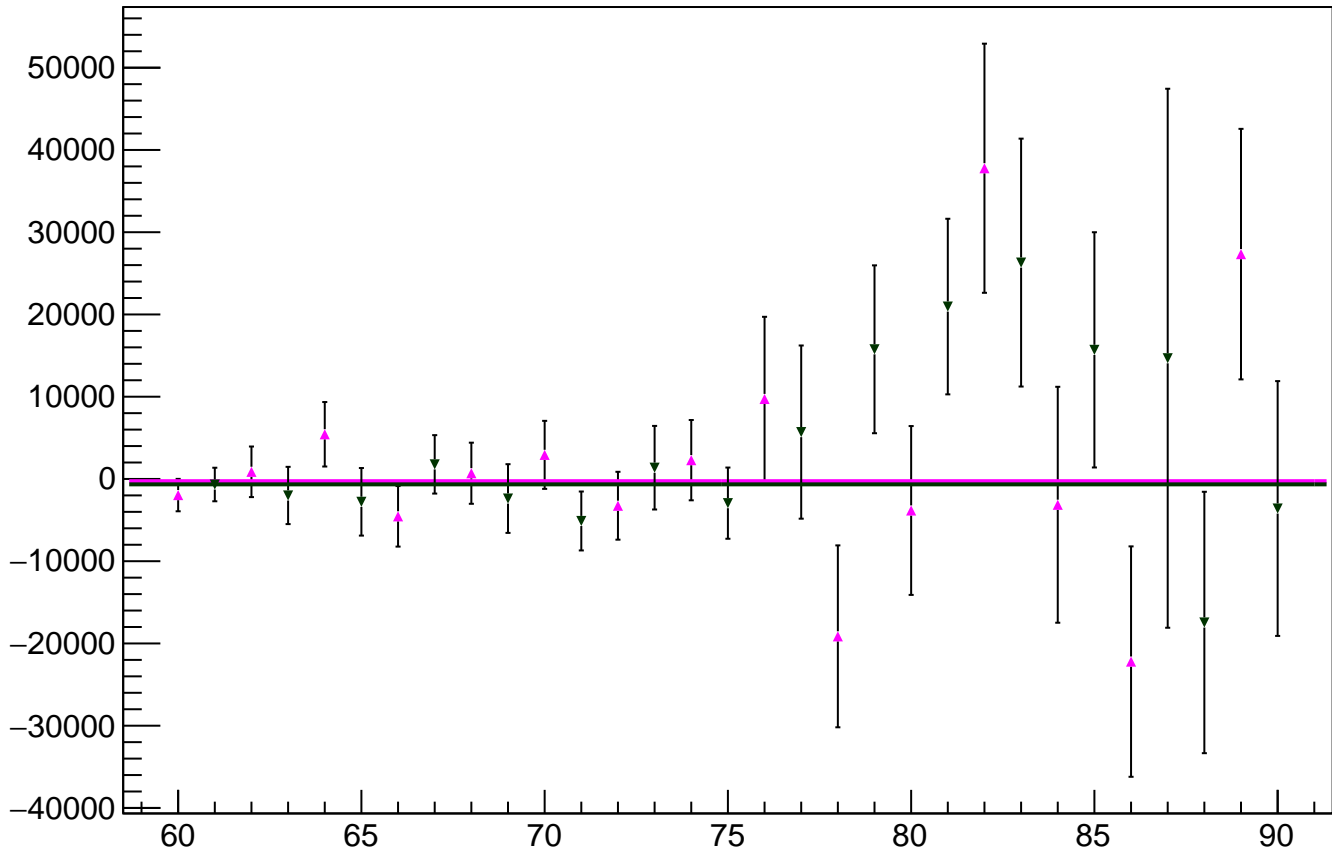
803.284+/-0.245  $\chi^2$ /NDF: 4227354.8/15

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

Left In: 835.588+/-0.250  $\chi^2$ /NDF:3954060.9/14

835.588+/-0.250  $\chi^2$ /NDF: 3954060.9/14

# asym\_atl2\_mean vs slug



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

Left Out: -655.961+/-1166.645  $\chi^2$ /NDF:16.0/15

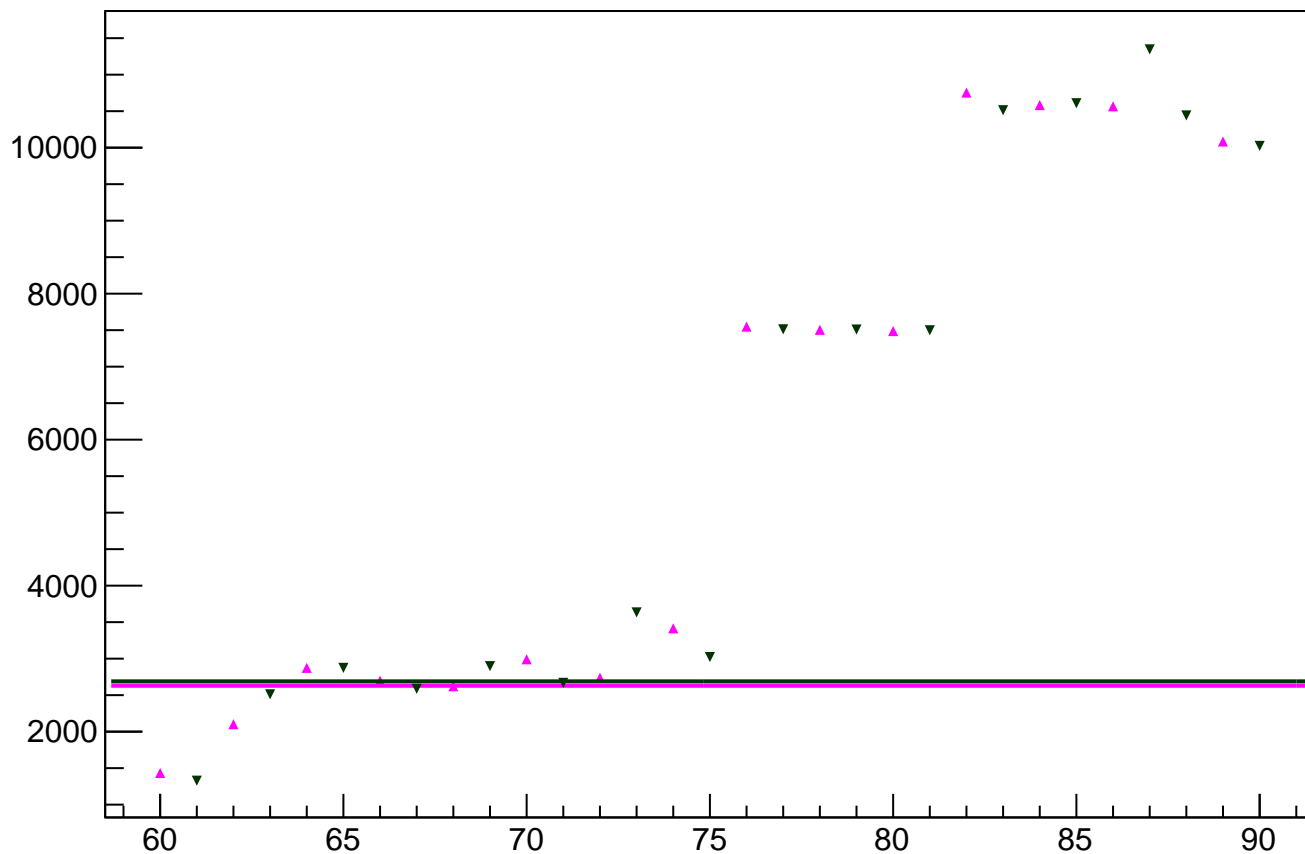
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -269.198+/-1132.128  $\chi^2$ /NDF:21.9/14

-655.961+/-1166.645  $\chi^2$ /NDF: 16.0/15

-269.198+/-1132.128  $\chi^2$ /NDF: 21.9/14

# asym\_atl2\_rms vs slug



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

Left Out: 2688.942+/-0.825  $\chi^2$ /NDF:4476362.8/15

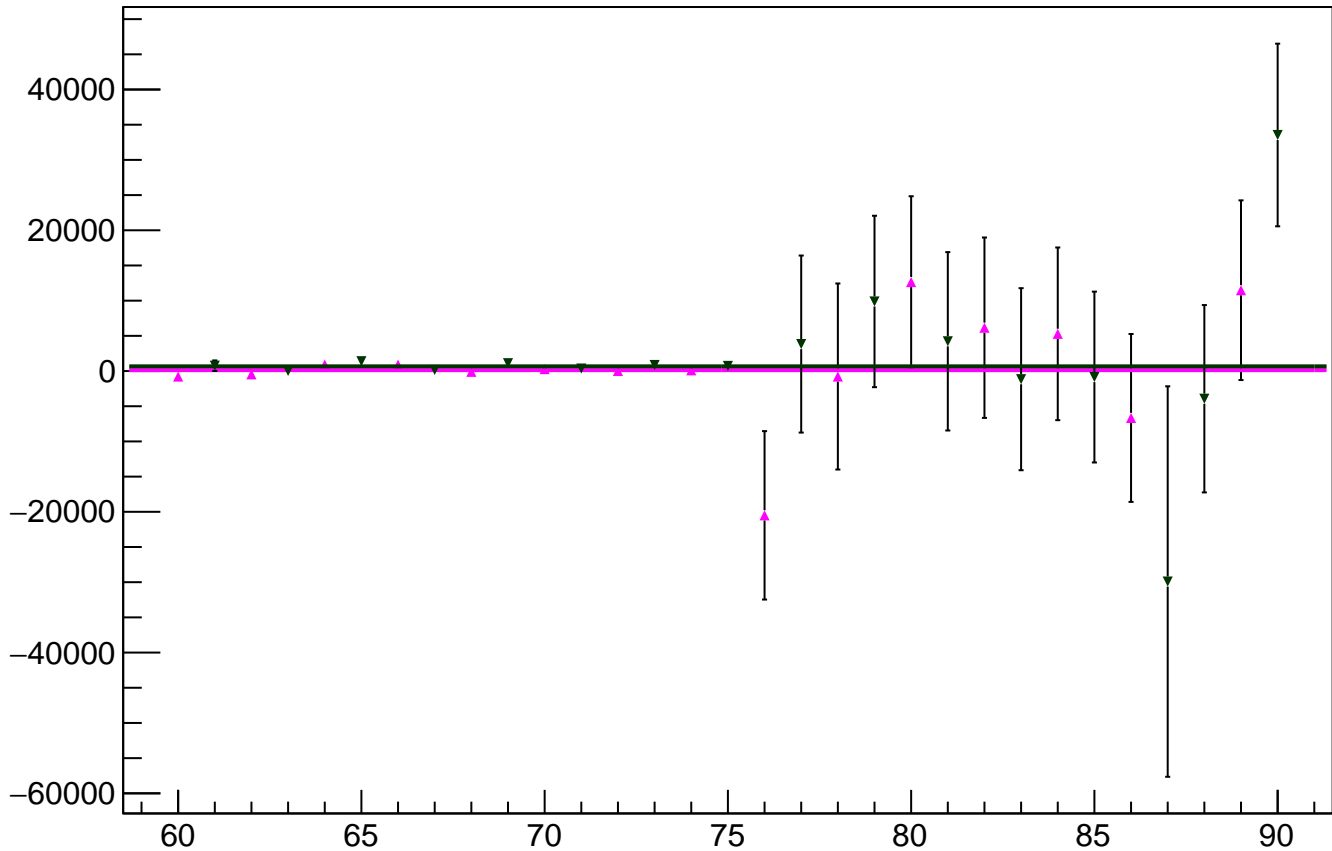
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2628.604+/-0.801  $\chi^2$ /NDF:4506015.6/14

2688.942+/-0.825  $\chi^2$ /NDF: 4476362.8/15

2628.604+/-0.801  $\chi^2$ /NDF: 4506015.6/14

# reg\_asym\_atr1\_mean vs slug



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

665.886+/-229.064  $\chi^2$ /NDF: 12.5/15

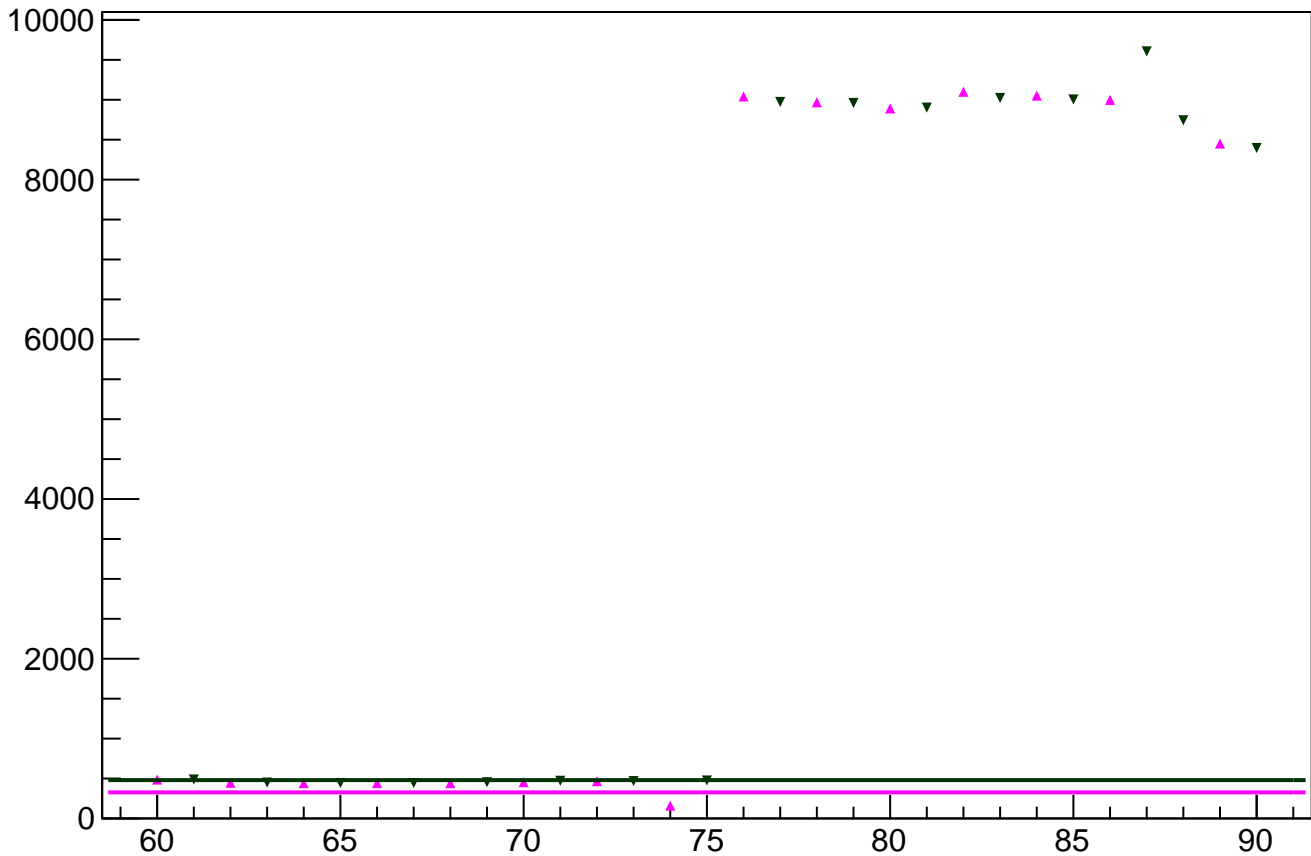
Left Out: 665.886+/-229.064  $\chi^2$ /NDF: 12.5/15

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

129.387+/-174.138  $\chi^2$ /NDF: 12.0/14

Left In: 129.387+/-174.138  $\chi^2$ /NDF: 12.0/14

# reg\_asym\_atr1\_rms vs slug



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

Left Out: 480.094+/-0.162  $\chi^2$ /NDF:6378893.9/15

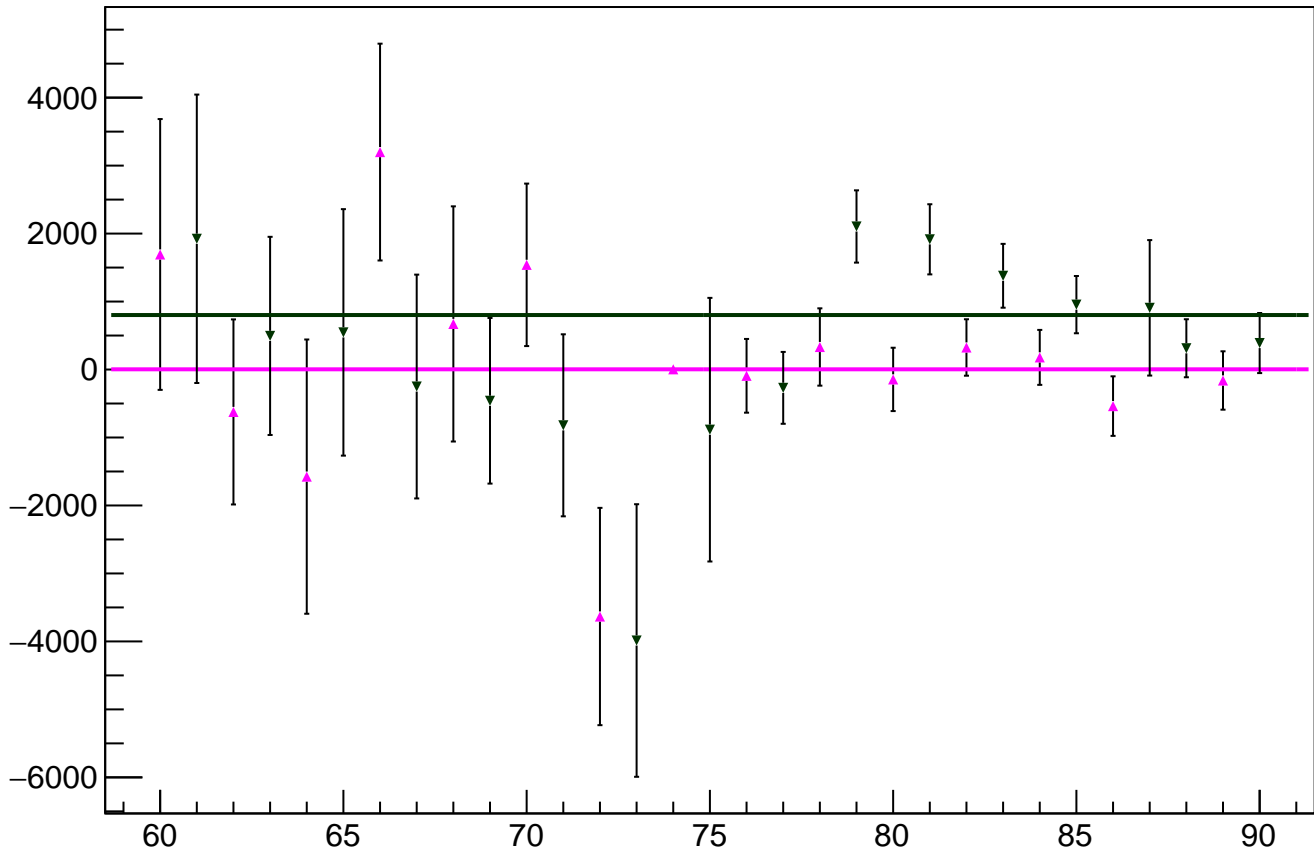
480.094+/-0.162  $\chi^2$ /NDF: 6378893.9/15

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

Left In: 326.575+/-0.123  $\chi^2$ /NDF:8149709.5/14

326.575+/-0.123  $\chi^2$ /NDF: 8149709.5/14

# asym\_atr1\_correction\_mean vs slug



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

801.665+/-167.205  $\chi^2$ /NDF: 28.4/15

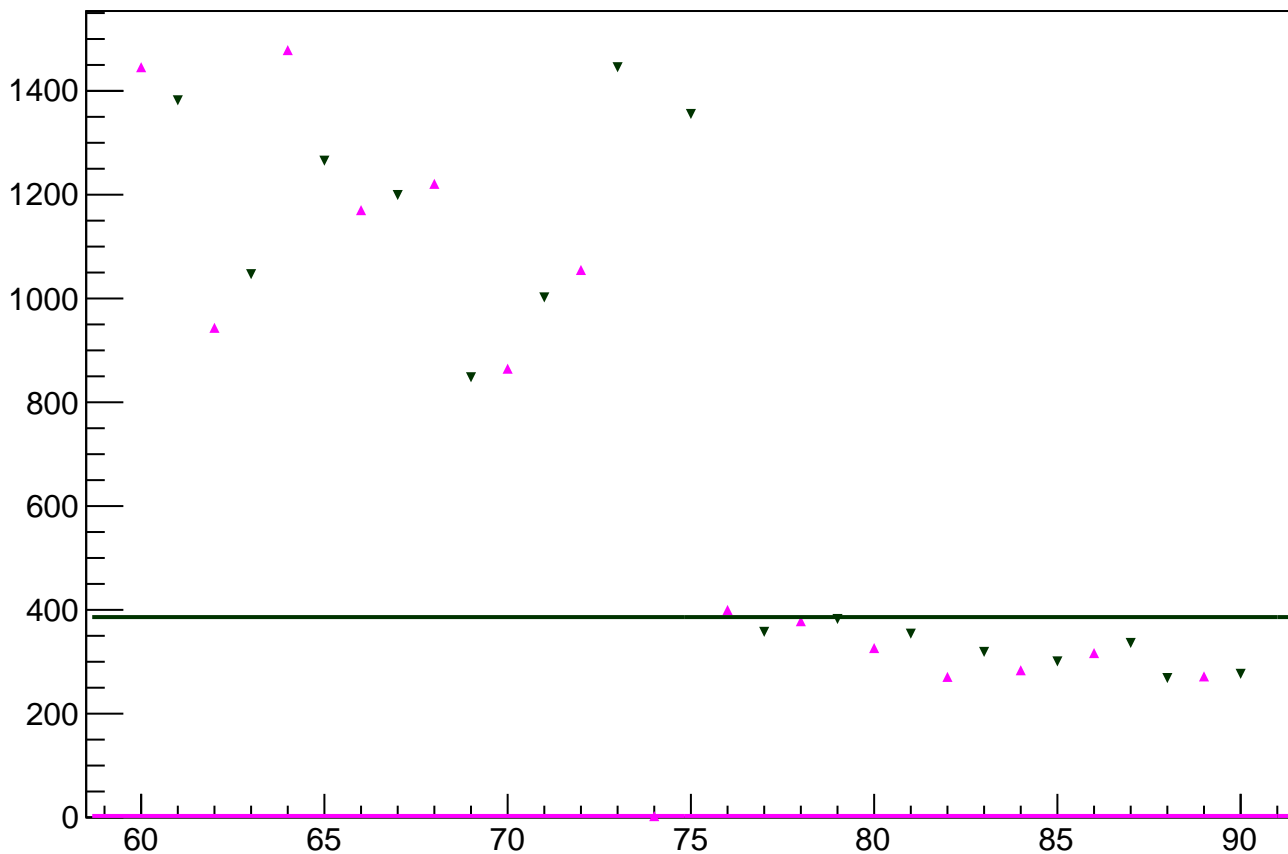
Left Out: 801.665+/-167.205  $\chi^2$ /NDF:28.4/15

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

3.149+/-4.895  $\chi^2$ /NDF: 15.5/14

Left In: 3.149+/-4.895  $\chi^2$ /NDF:15.5/14

# asym\_atr1\_correction\_rms vs slug



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

Left Out: 386.092+/-0.118  $\chi^2/\text{NDF}$ : 3995107.8/15

386.092+/-0.118  $\chi^2/\text{NDF}$ : 3995107.8/15

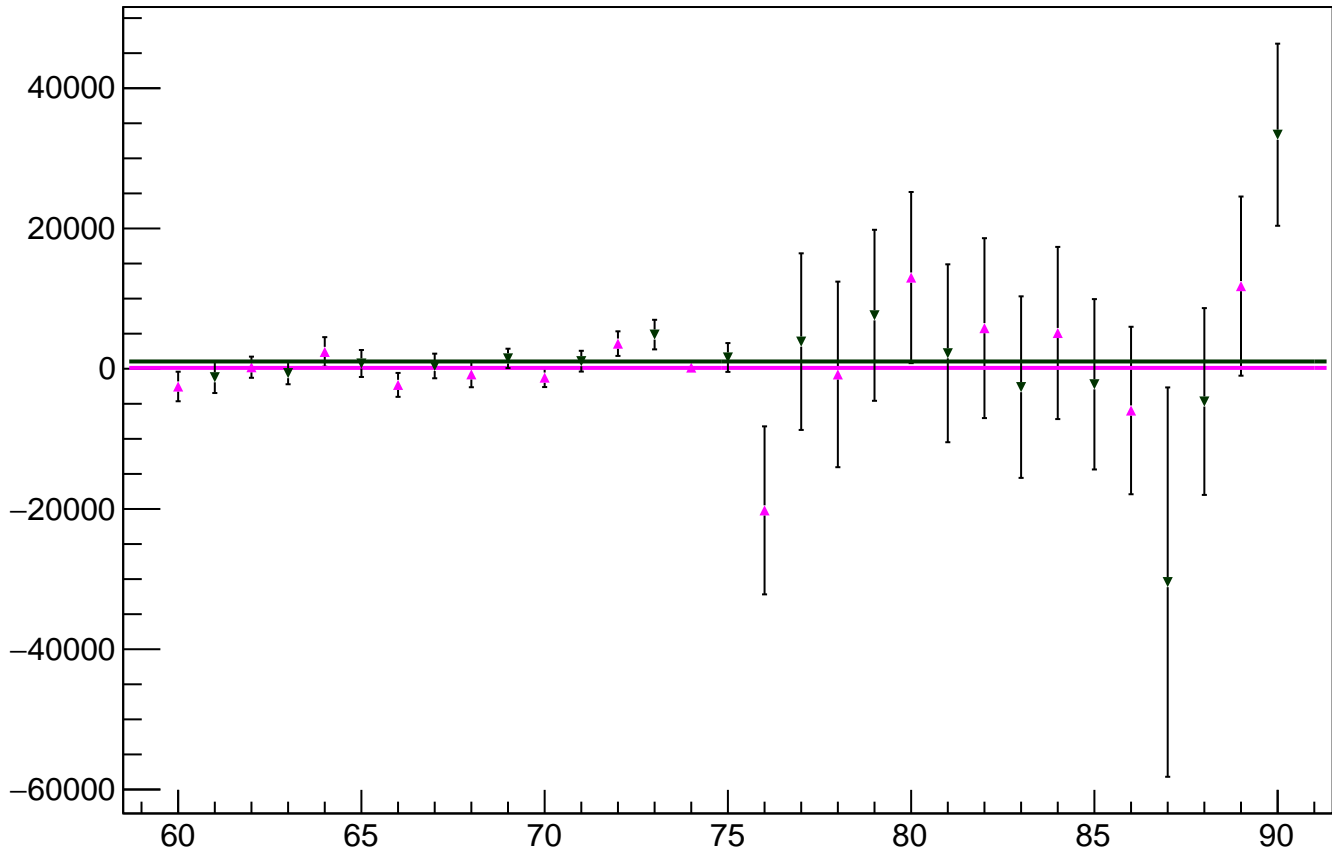
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.903+/-0.003  $\chi^2/\text{NDF}$ : 13568004.1/14

Left In: 2.903+/-0.003  $\chi^2/\text{NDF}$ : 13568004.1/14



# asym\_atr1\_mean vs slug



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

1036.070+/-611.564  $\chi^2$ /NDF: 13.9/15

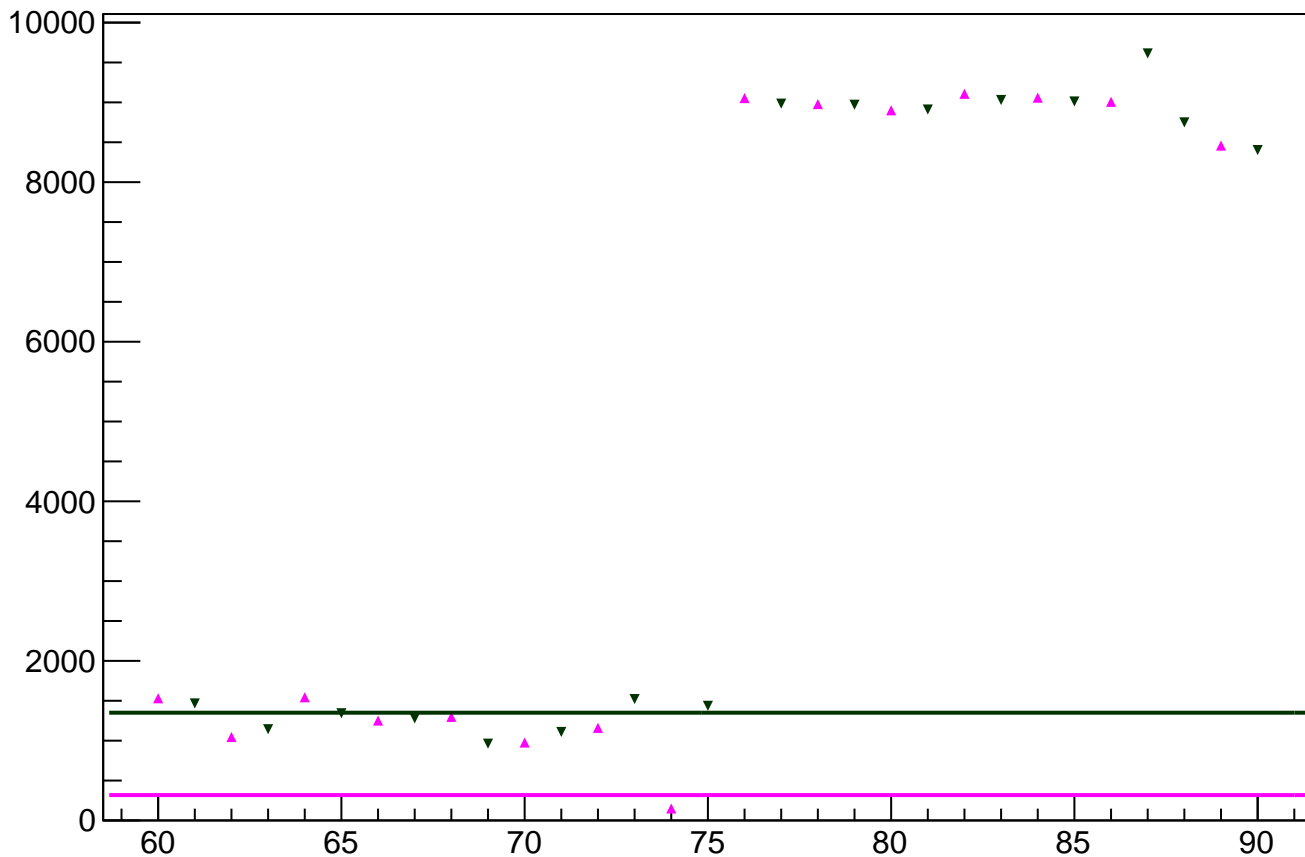
Left Out: 1036.070+/-611.564  $\chi^2$ /NDF:13.9/15

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

118.422+/-239.751  $\chi^2$ /NDF: 15.5/14

Left In: 118.422+/-239.751  $\chi^2$ /NDF:15.5/14

# asym\_atr1\_rms vs slug



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

Left Out: 1350.494+/-0.432  $\chi^2/\text{NDF}$ : 5380214.5/15

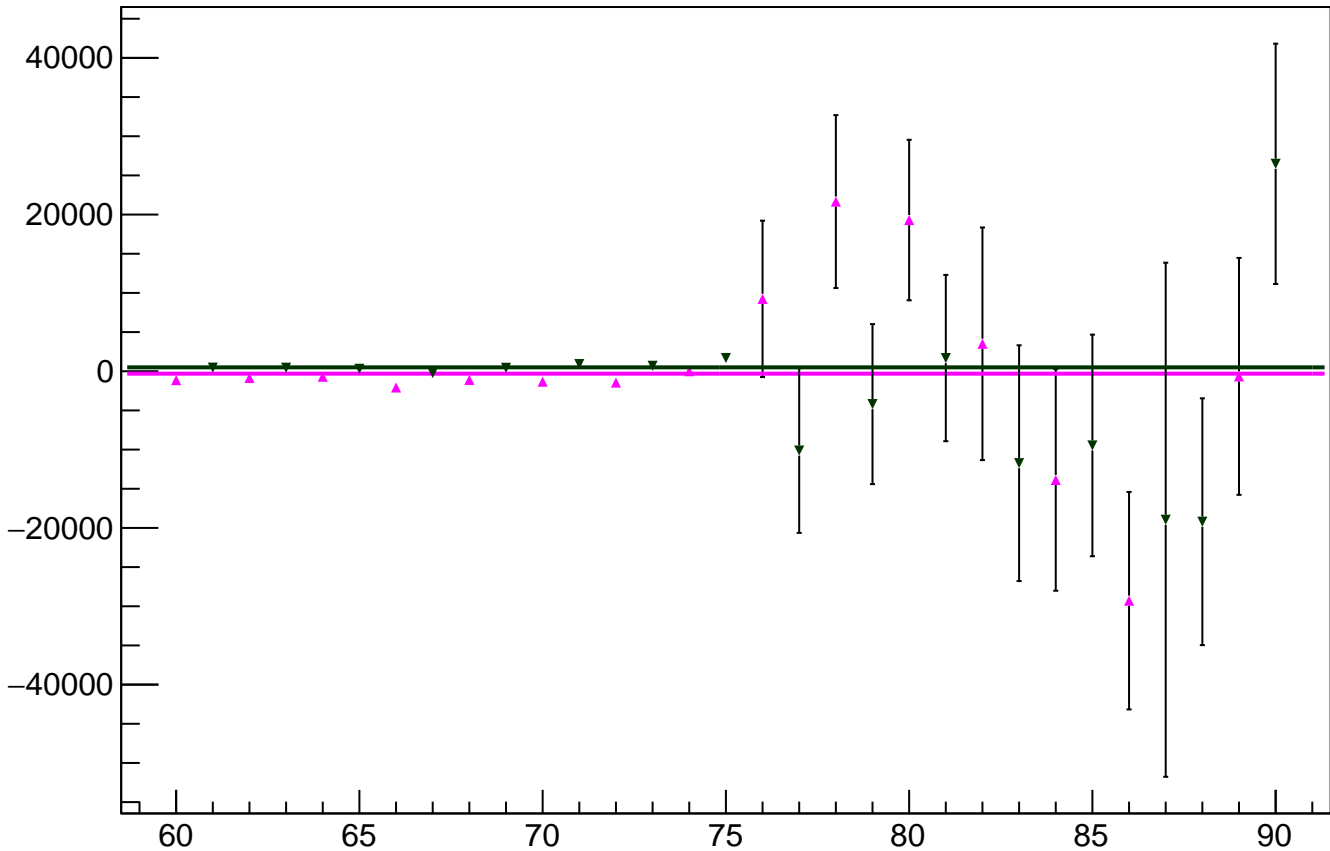
1350.494+/-0.432  $\chi^2/\text{NDF}$ : 5380214.5/15

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

317.979+/-0.170  $\chi^2/\text{NDF}$ : 11488845.0/14

Left In: 317.979+/-0.170  $\chi^2/\text{NDF}$ : 11488845.0/14

# reg\_asym\_atr2\_mean vs slug



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

Left Out: 497.721+/-179.953  $\chi^2$ /NDF:14.6/15

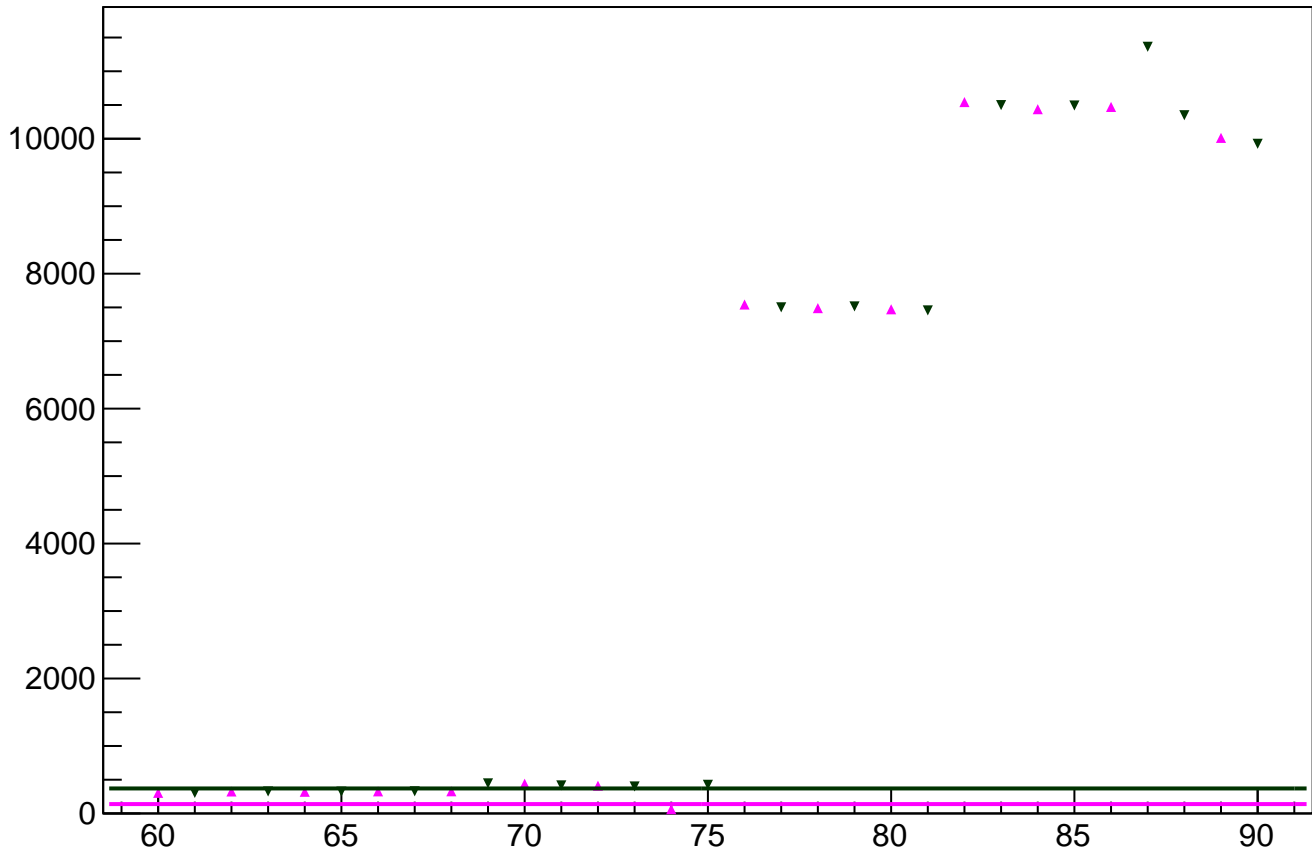
497.721+/-179.953  $\chi^2$ /NDF: 14.6/15

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

-307.786+/-92.436  $\chi^2$ /NDF: 53.2/14

Left In: -307.786+/-92.436  $\chi^2$ /NDF:53.2/14

# reg\_asym\_atr2\_rms vs slug



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

Left Out: 370.529+/-0.127  $\chi^2$ /NDF:6684430.4/15

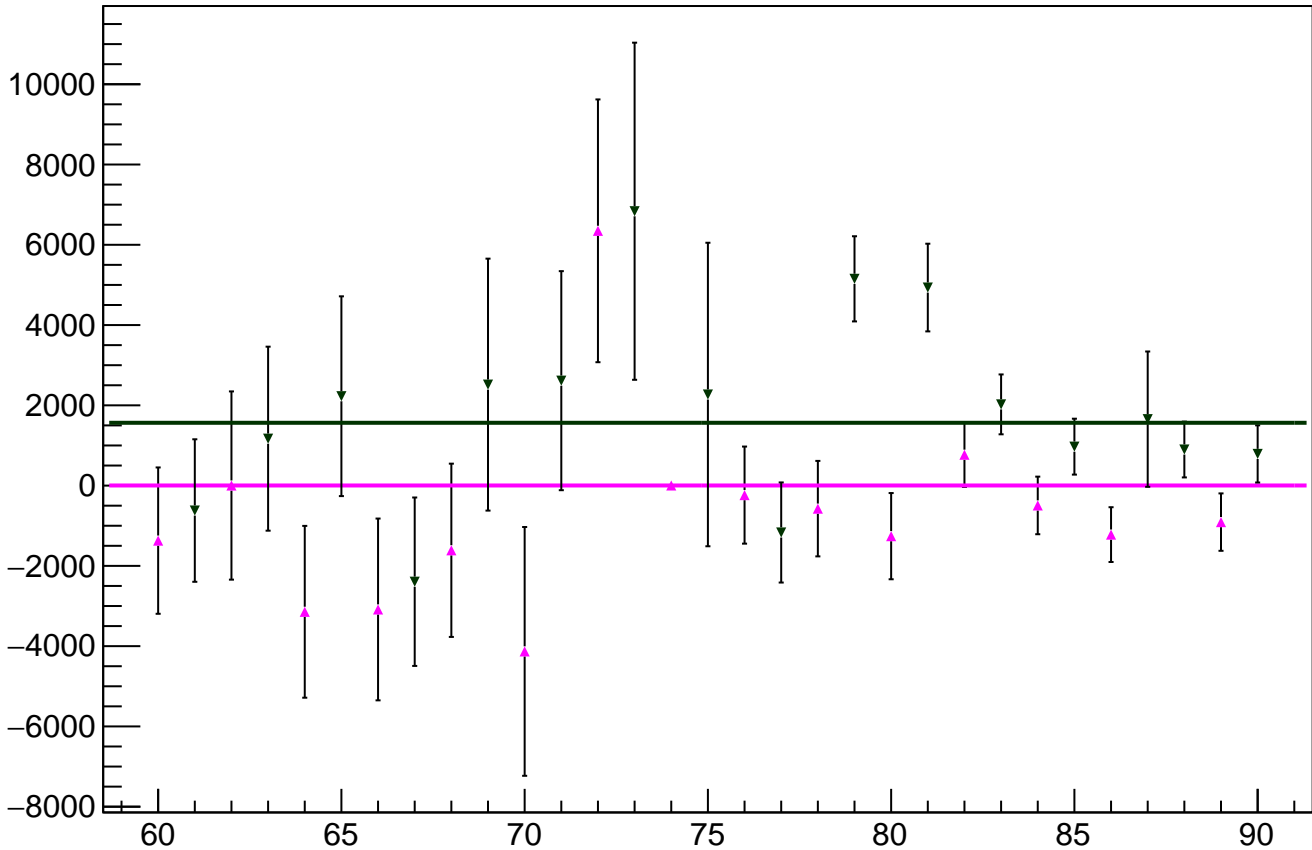
370.529+/-0.127  $\chi^2$ /NDF: 6684430.4/15

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

138.899+/-0.065  $\chi^2$ /NDF: 10558556.7/14

Left In: 138.899+/-0.065  $\chi^2$ /NDF:10558556.7/14

# asym\_atr2\_correction\_mean vs slug



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

1565.269+/-290.149  $\chi^2/\text{NDF}$ : 36.0/15

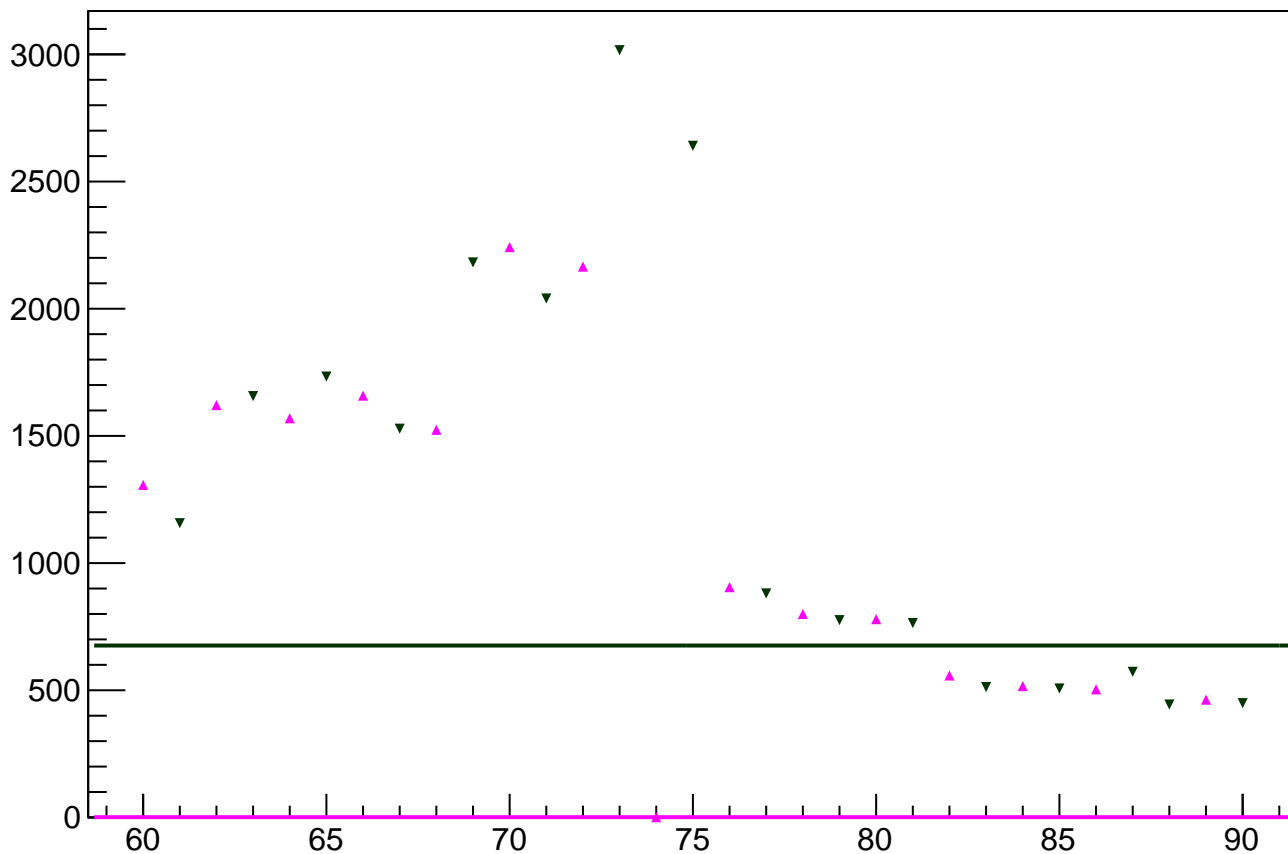
Left Out: 1565.269+/-290.149  $\chi^2/\text{NDF}$ : 36.0/15

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

3.236+/-2.048  $\chi^2/\text{NDF}$ : 18.6/14

Left In: 3.236+/-2.048  $\chi^2/\text{NDF}$ : 18.6/14

# asym\_atr2\_correction\_rms vs slug



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

Left Out: 675.896+/-0.205  $\chi^2/\text{NDF}$ : 4056039.3/15

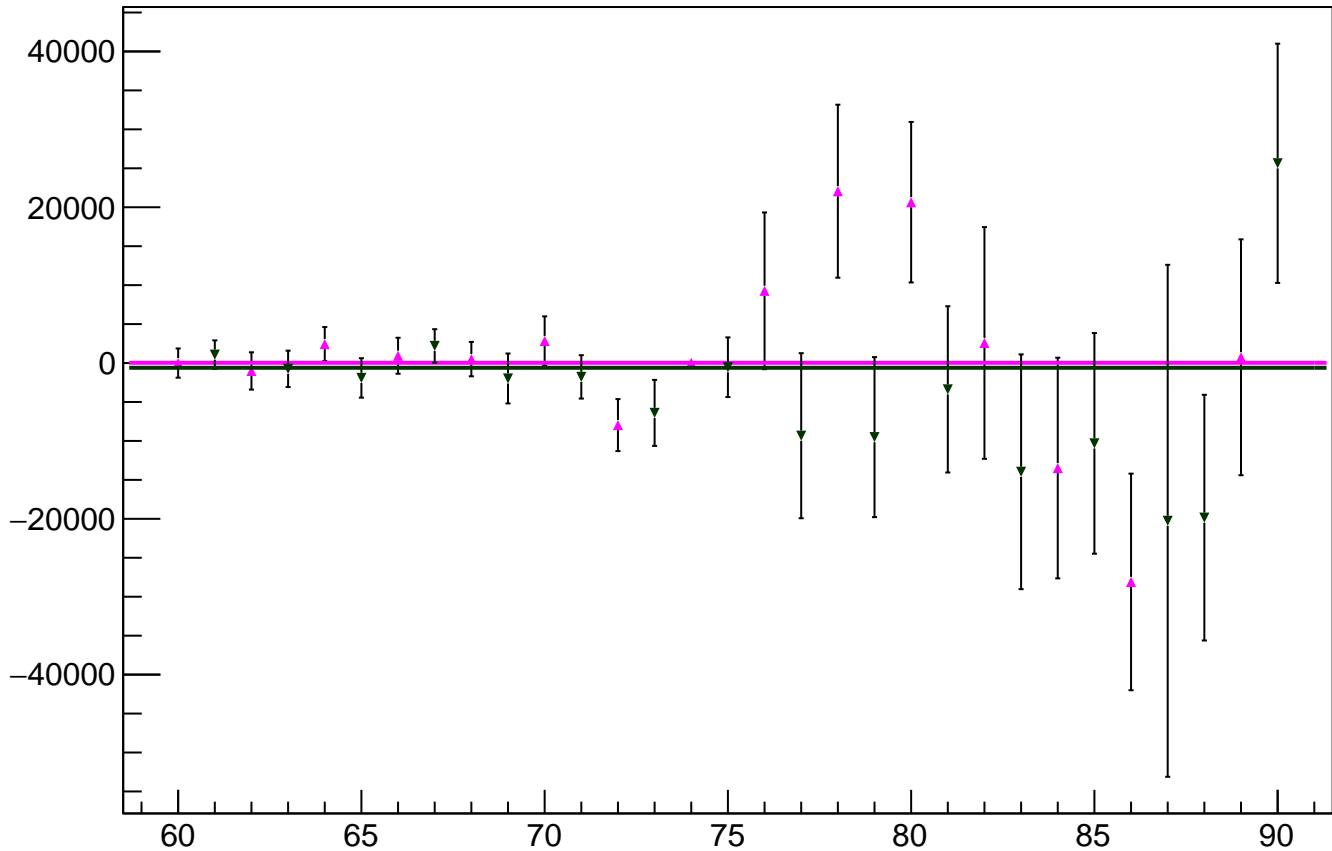
675.896+/-0.205  $\chi^2/\text{NDF}$ : 4056039.3/15

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

1.109+/-0.001  $\chi^2/\text{NDF}$ : 14028905.7/14

Left In: 1.109+/-0.001  $\chi^2/\text{NDF}$ : 14028905.7/14

# asym\_atr2\_mean vs slug



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

-608.132+/-894.947  $\chi^2$ /NDF: 12.6/15

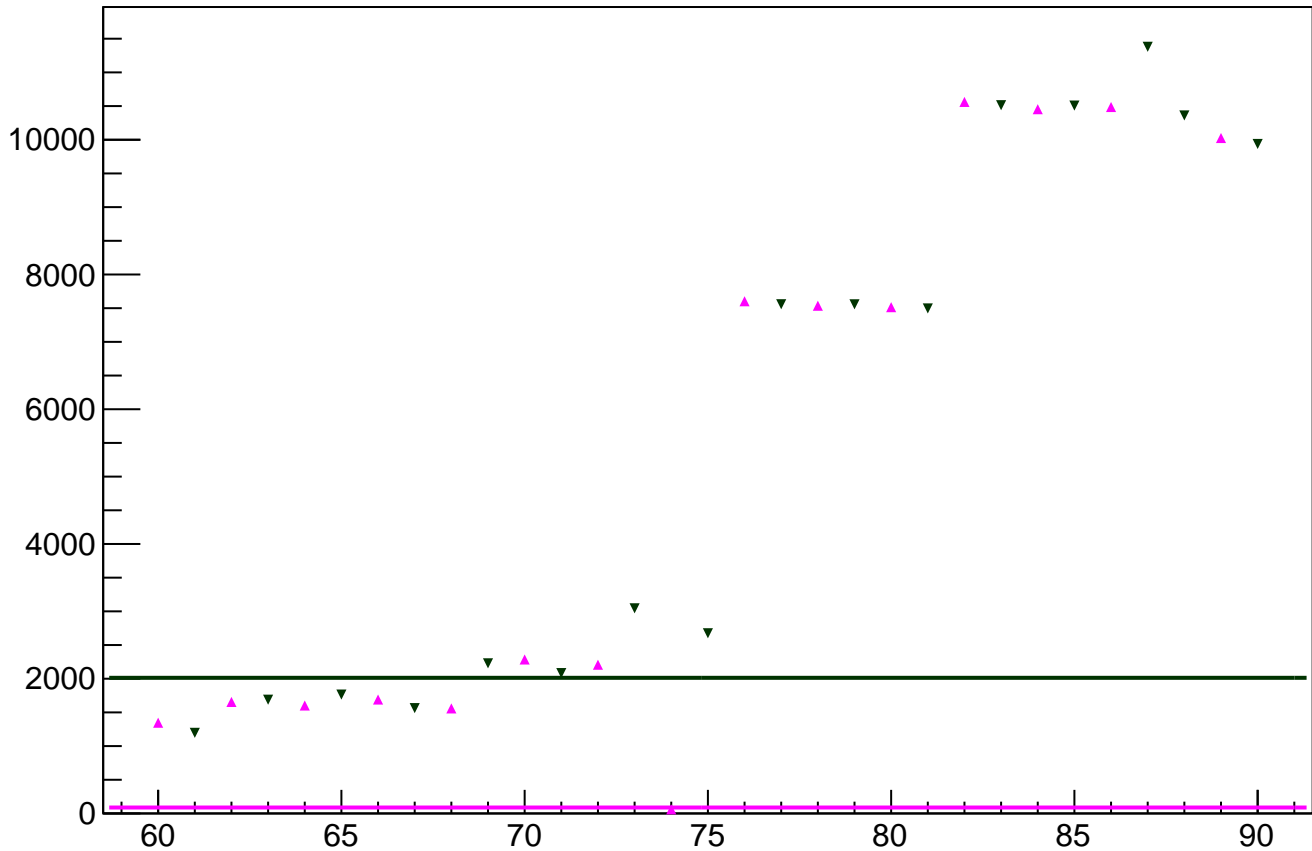
Left Out: -608.132+/-894.947  $\chi^2$ /NDF:12.6/15

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

32.234+/-107.190  $\chi^2$ /NDF: 22.0/14

Left In: 32.234+/-107.190  $\chi^2$ /NDF:22.0/14

# asym\_atr2\_rms vs slug



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

2013.361+/-0.633  $\chi^2$ /NDF: 4999193.2/15

Left Out: 2013.361+/-0.633  $\chi^2$ /NDF: 4999193.2/15

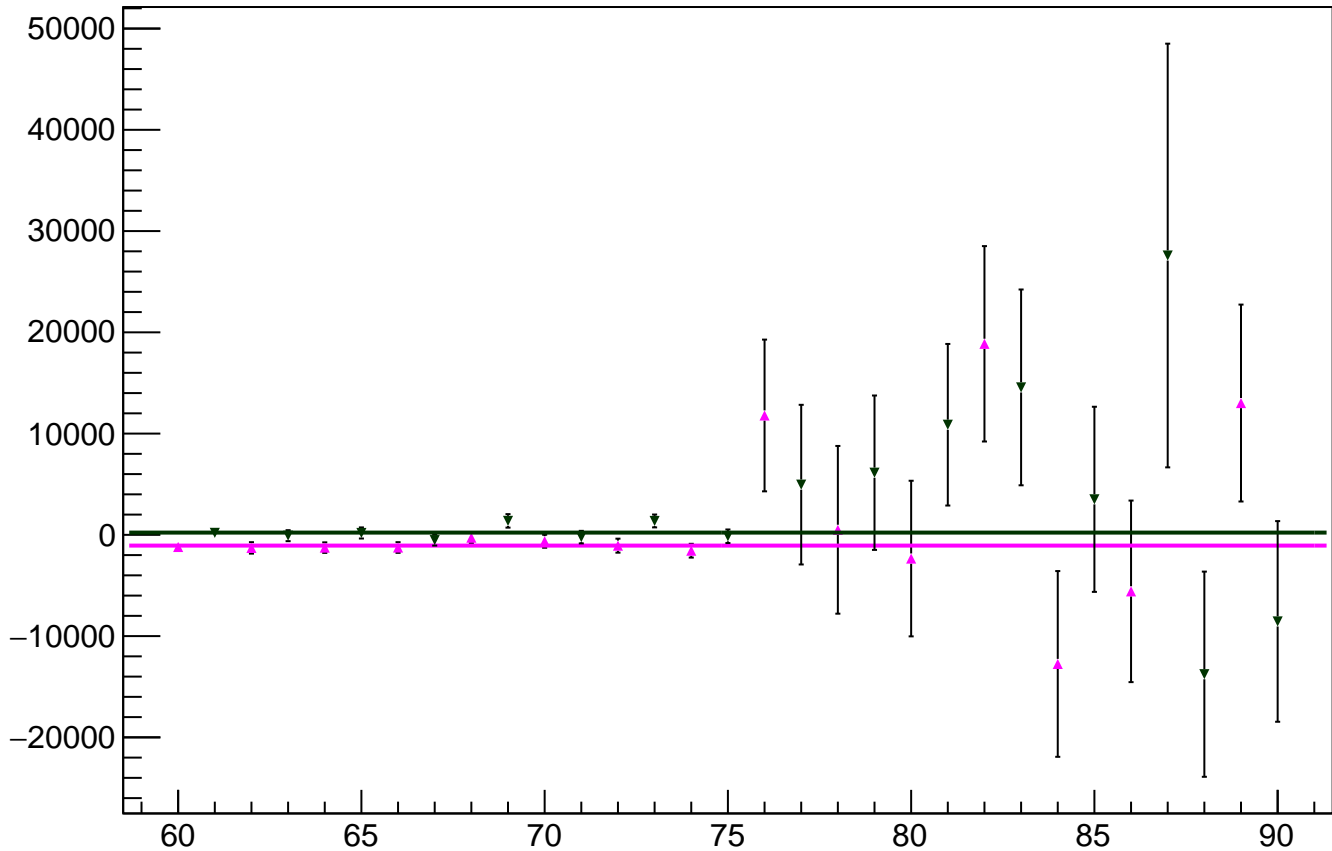
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

88.187+/-0.076  $\chi^2$ /NDF: 13573680.9/14

Left In: 88.187+/-0.076  $\chi^2$ /NDF: 13573680.9/14



# reg\_asym\_atl\_avg\_mean vs slug



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

Left Out: 222.623+/-202.513  $\chi^2/\text{NDF}$ : 18.8/15

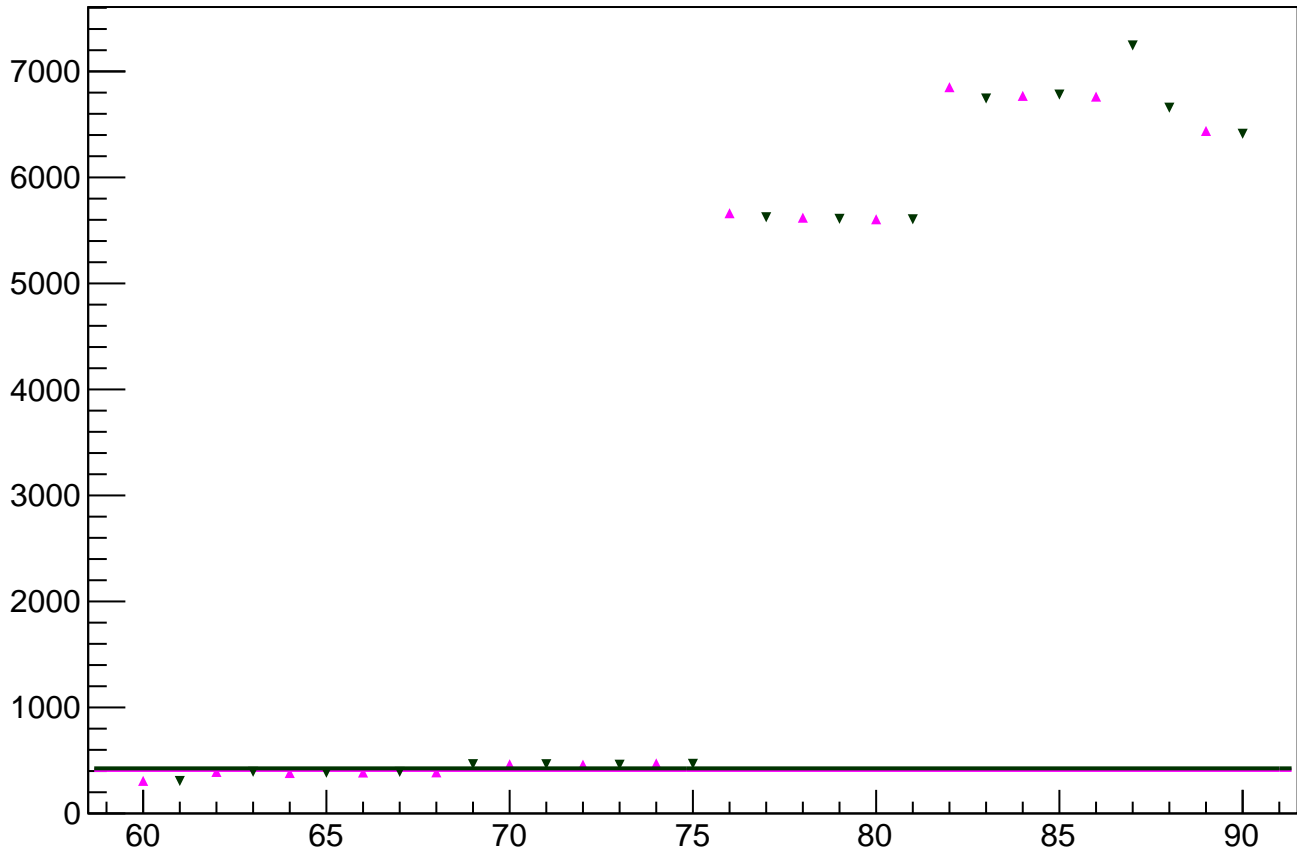
222.623+/-202.513  $\chi^2/\text{NDF}$ : 18.8/15

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

-1061.050+/-195.089  $\chi^2/\text{NDF}$ : 14.8/14

Left In: -1061.050+/-195.089  $\chi^2/\text{NDF}$ : 14.8/14

# reg\_asym\_atl\_avg\_rms vs slug



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

Left Out: 425.329+/-0.143  $\chi^2/\text{NDF}$ : 6342069.8/15

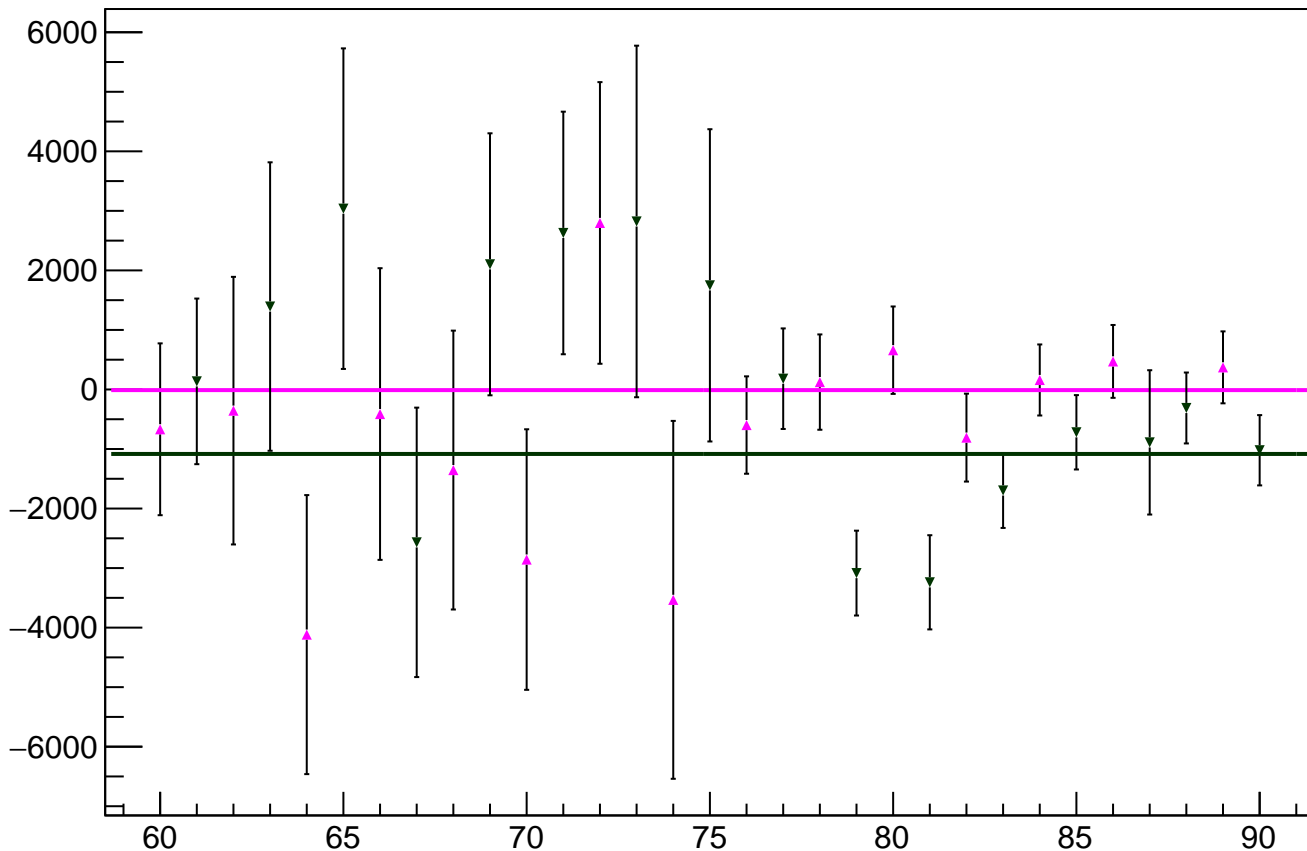
425.329+/-0.143  $\chi^2/\text{NDF}$ : 6342069.8/15

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

410.418+/-0.138  $\chi^2/\text{NDF}$ : 6491899.5/14

Left In: 410.418+/-0.138  $\chi^2/\text{NDF}$ : 6491899.5/14

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



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

Left Out: -1083.020+/-234.696  $\chi^2/\text{NDF}$ :33.5/15

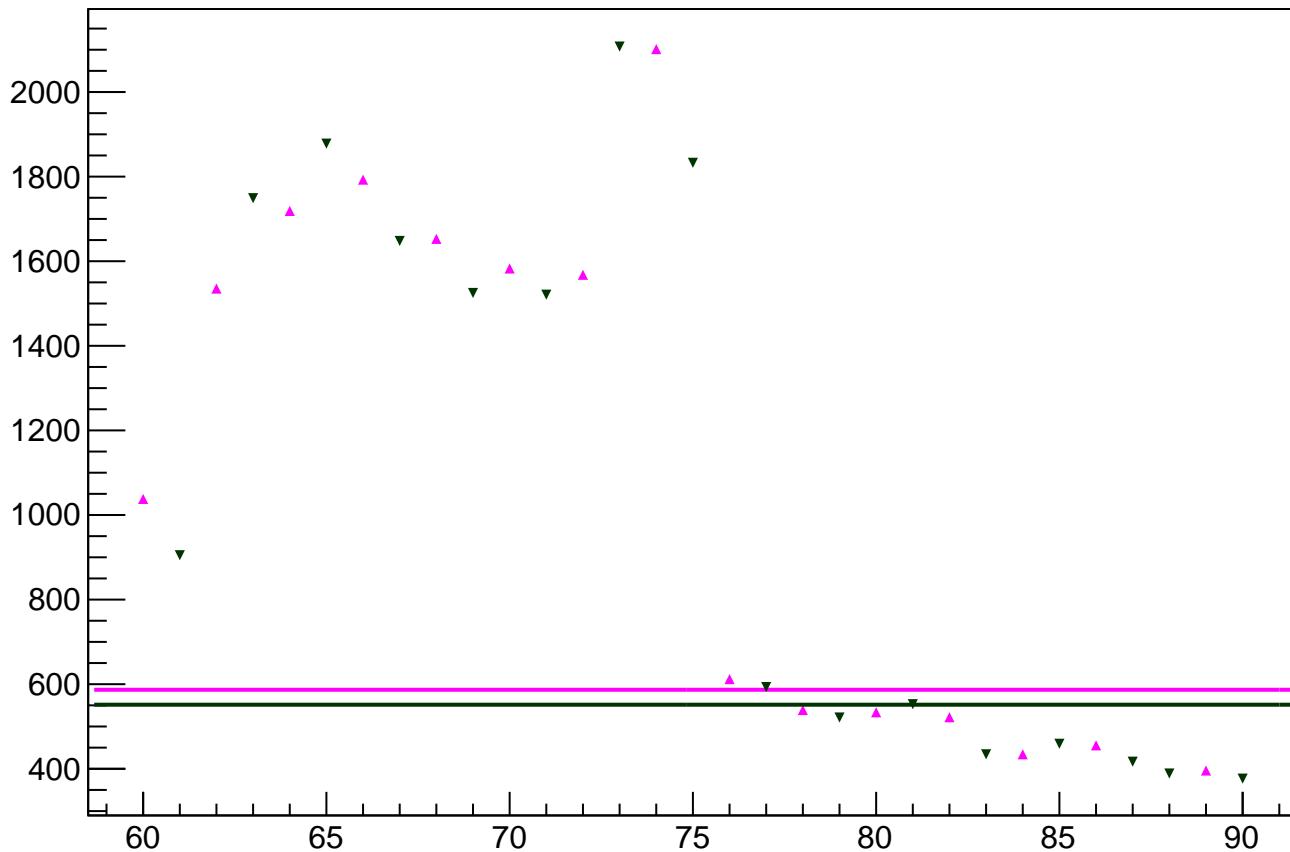
-1083.020+/-234.696  $\chi^2/\text{NDF}$ : 33.5/15

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

-10.740+/-244.923  $\chi^2/\text{NDF}$ : 11.8/14

Left In: -10.740+/-244.923  $\chi^2/\text{NDF}$ :11.8/14

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



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

Left Out: 551.493+/-0.166  $\chi^2$ /NDF:3920599.7/15

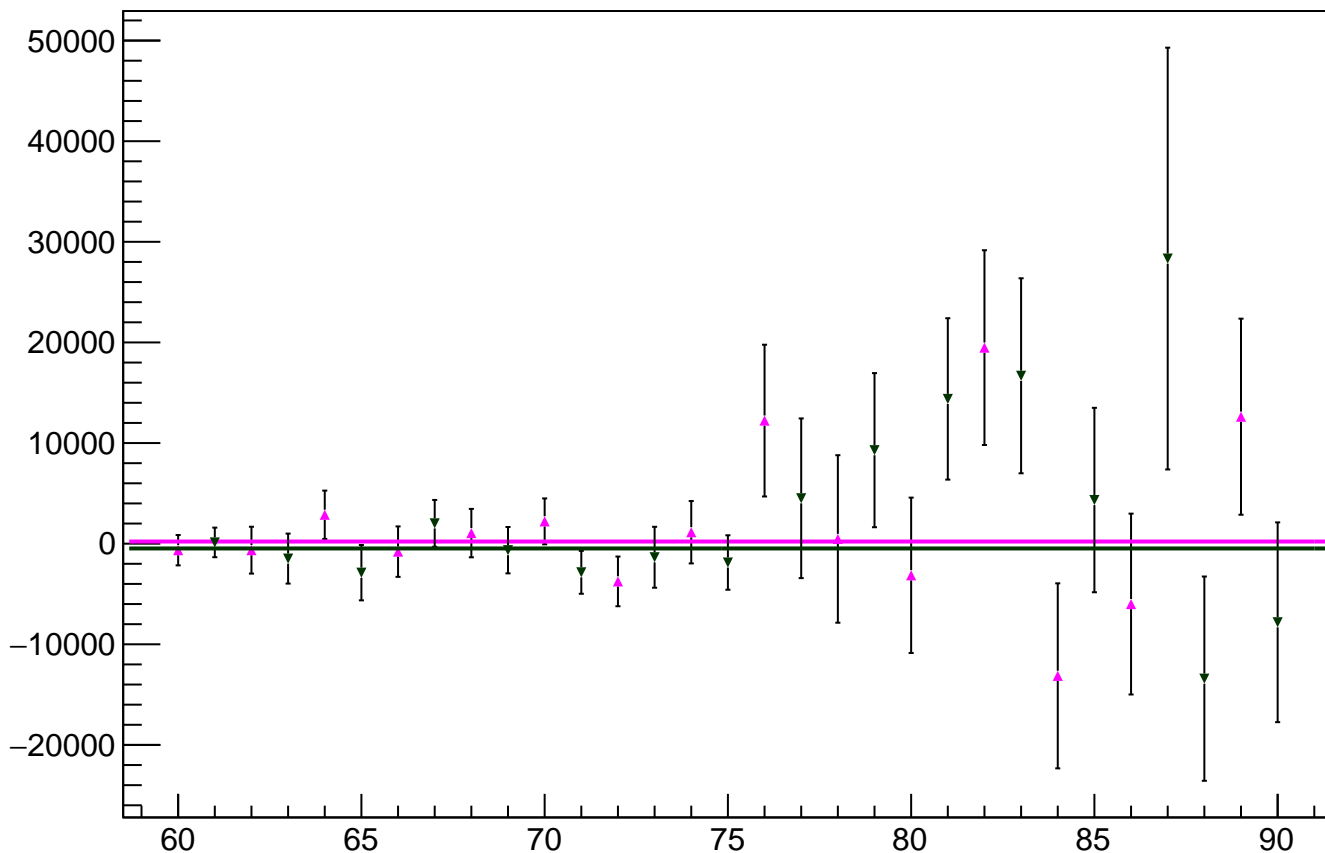
551.493+/-0.166  $\chi^2$ /NDF: 3920599.7/15

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

Left In: 586.820+/-0.173  $\chi^2$ /NDF:3641671.9/14

586.820+/-0.173  $\chi^2$ /NDF: 3641671.9/14

# asym\_atl\_avg\_mean vs slug



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

Left Out: -475.533+/-769.381  $\chi^2/\text{NDF}$ : 16.8/15

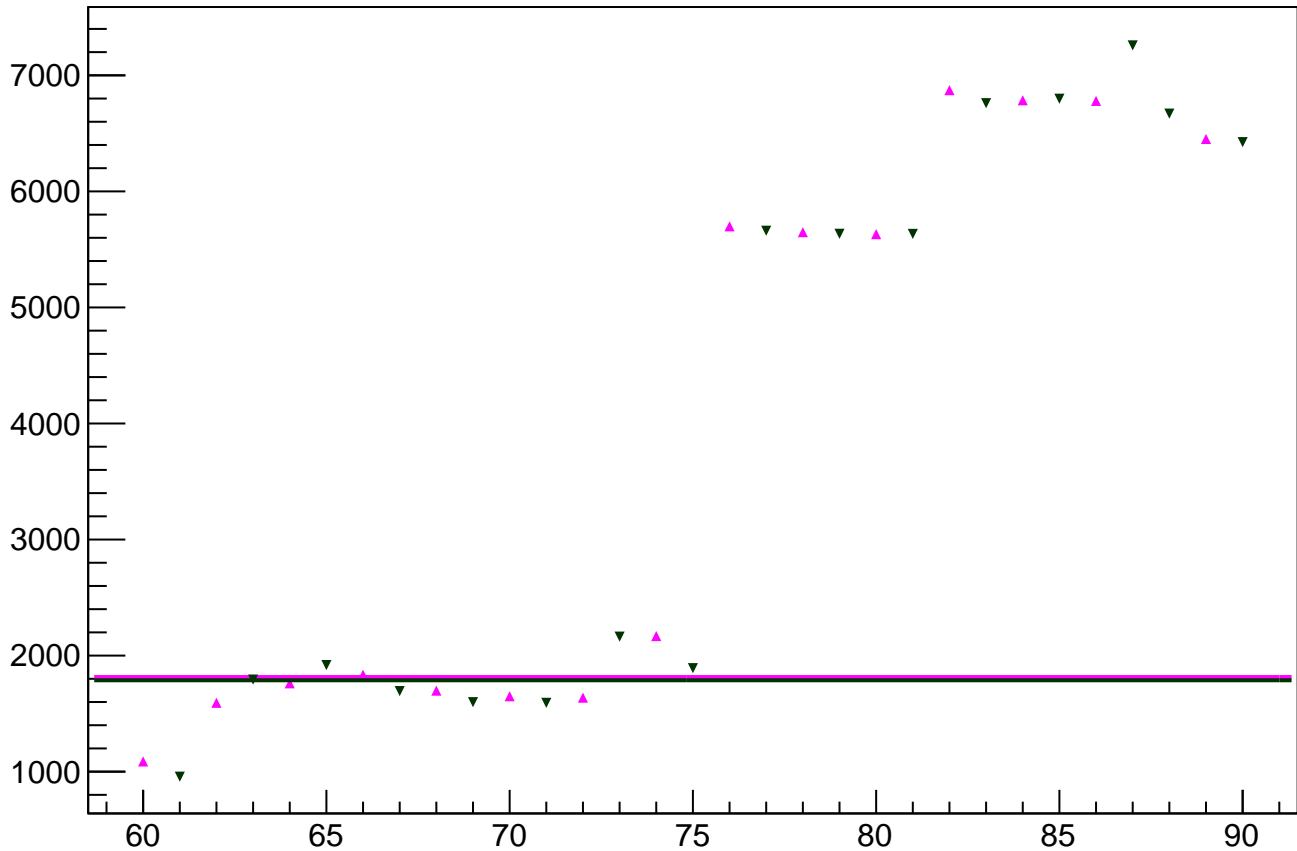
-475.533+/-769.381  $\chi^2/\text{NDF}$ : 16.8/15

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

214.146+/-770.651  $\chi^2/\text{NDF}$ : 16.3/14

Left In: 214.146+/-770.651  $\chi^2/\text{NDF}$ : 16.3/14

# asym\_atl\_avg\_rms vs slug



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

Left Out: 1787.283+/-0.544  $\chi^2$ /NDF:4312001.9/15

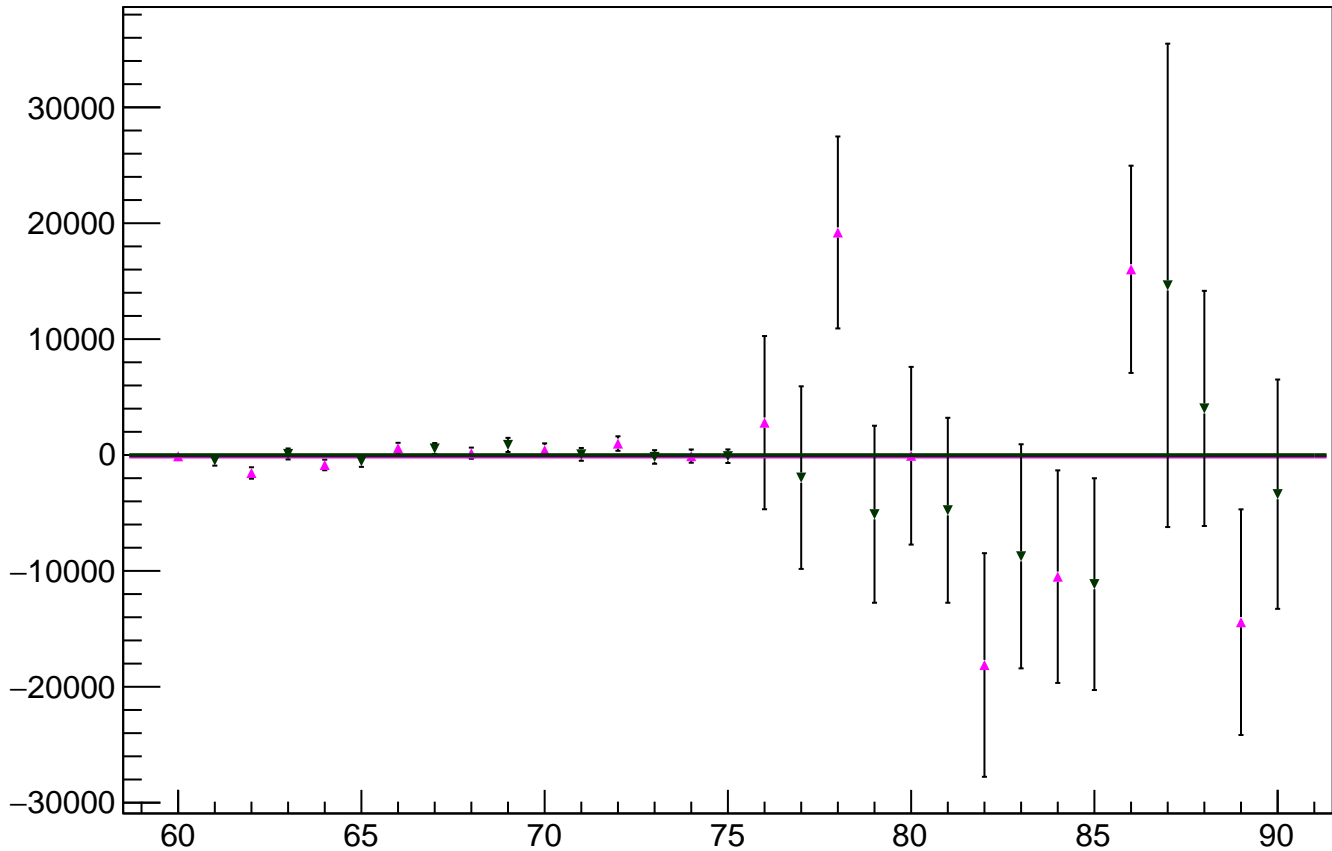
1787.283+/-0.544  $\chi^2$ /NDF: 4312001.9/15

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

1815.128+/-0.545  $\chi^2$ /NDF: 4172563.7/14

Left In: 1815.128+/-0.545  $\chi^2$ /NDF:4172563.7/14

# reg\_asym\_atl\_dd\_mean vs slug



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

Left Out: -16.421+/-181.584  $\chi^2$ /NDF:10.0/15

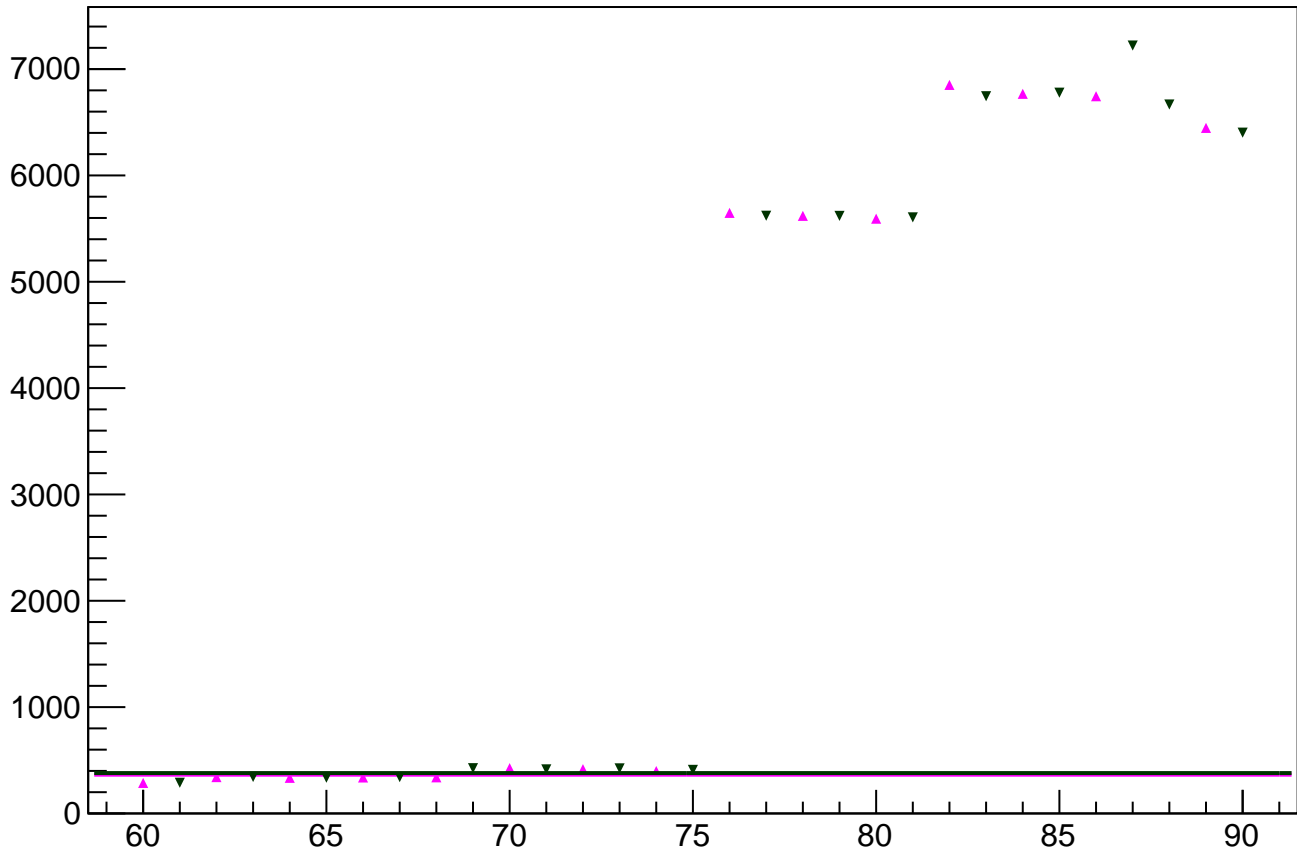
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -128.827+/-173.757  $\chi^2$ /NDF:33.5/14

-16.421+/-181.584  $\chi^2$ /NDF: 10.0/15

-128.827+/-173.757  $\chi^2$ /NDF: 33.5/14

# reg\_asym\_atl\_dd\_rms vs slug



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

379.723+/-0.128  $\chi^2$ /NDF: 6418629.8/15

Left Out: 379.723+/-0.128  $\chi^2$ /NDF:6418629.8/15

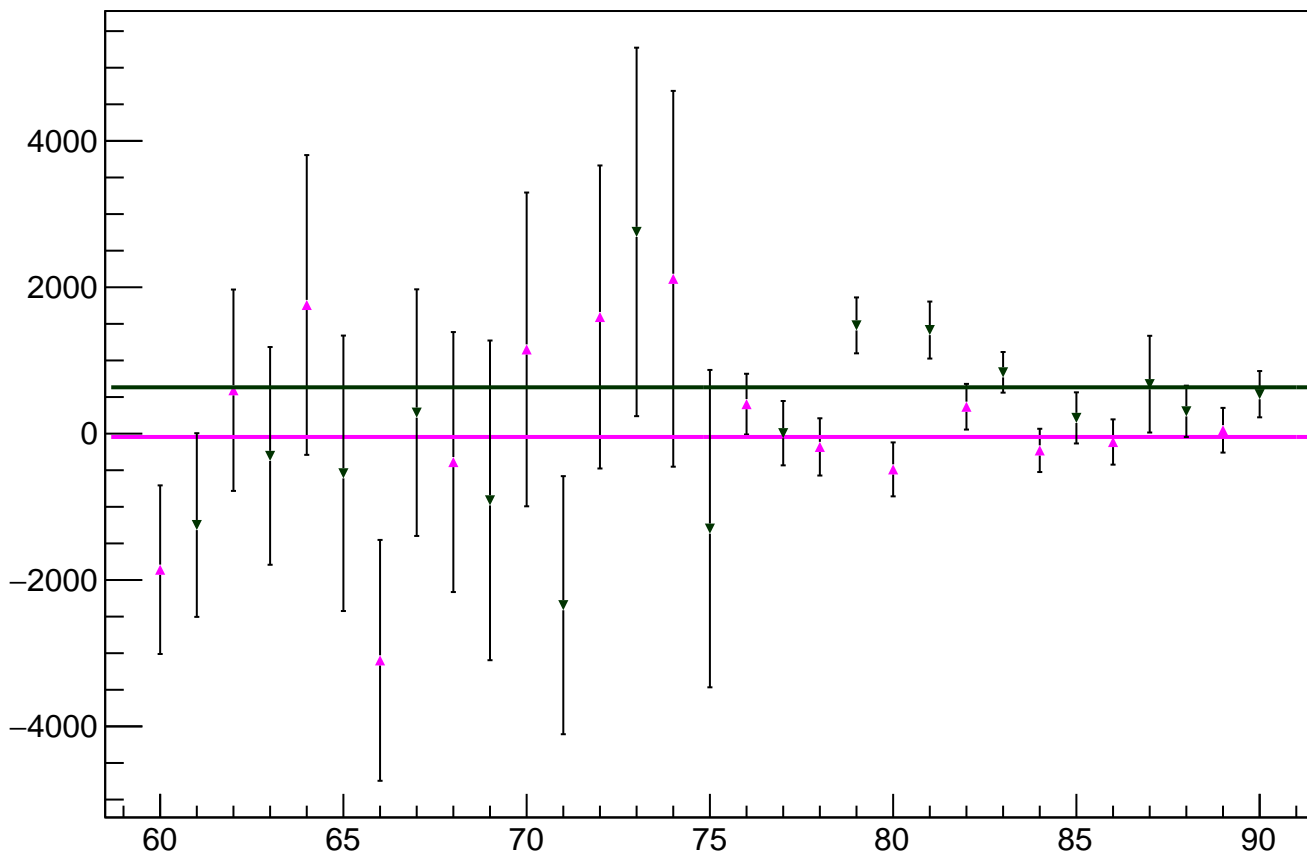
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

364.384+/-0.123  $\chi^2$ /NDF: 6559354.6/14

Left In: 364.384+/-0.123  $\chi^2$ /NDF:6559354.6/14



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



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

Left Out: 633.184+/-126.175  $\chi^2$ /NDF:21.8/15

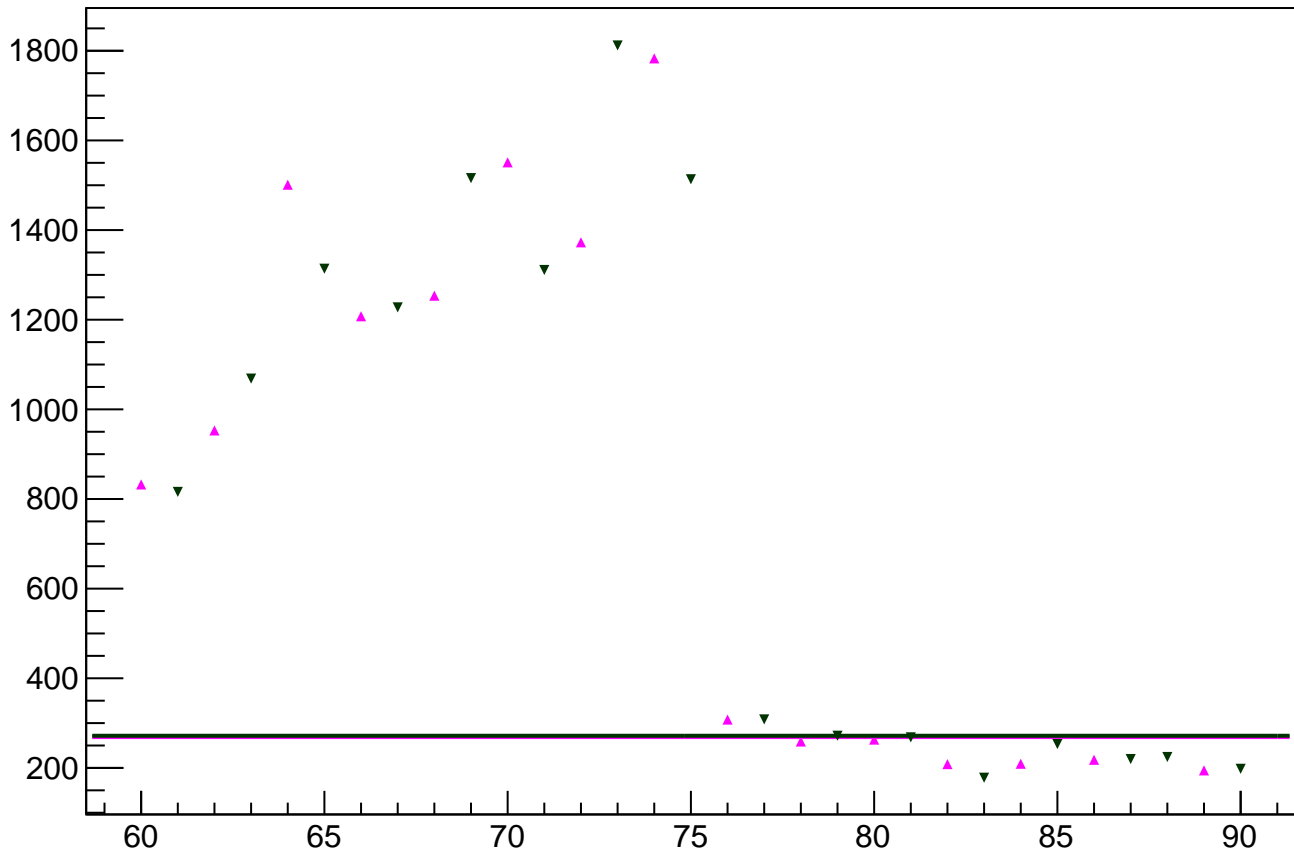
633.184+/-126.175  $\chi^2$ /NDF: 21.8/15

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

-45.411+/-123.644  $\chi^2$ /NDF: 13.6/14

Left In: -45.411+/-123.644  $\chi^2$ /NDF:13.6/14

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



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

271.733+/-0.089  $\chi^2/\text{NDF}$ : 5358754.3/15

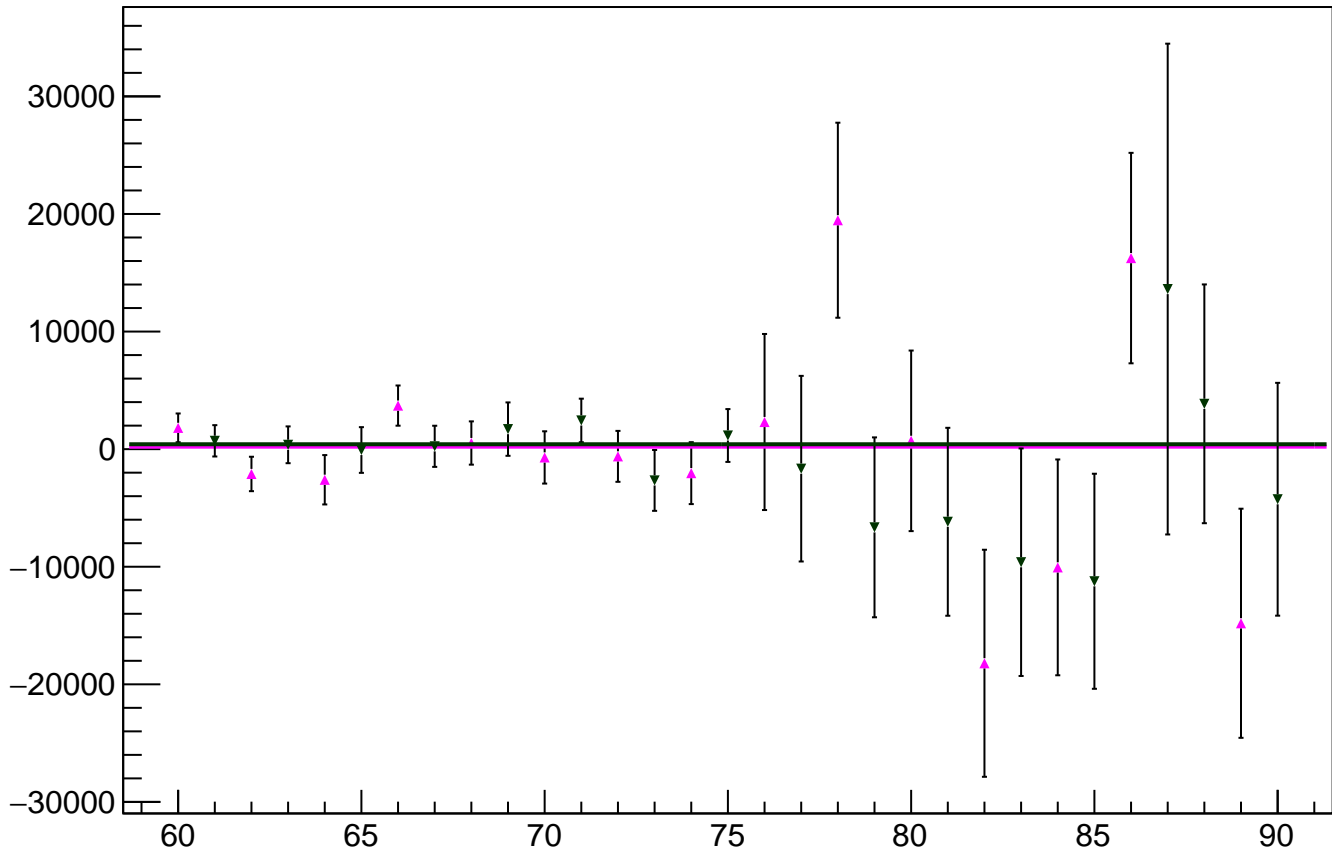
Left Out: 271.733+/-0.089  $\chi^2/\text{NDF}$ : 5358754.3/15

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

268.807+/-0.087  $\chi^2/\text{NDF}$ : 5290495.4/14

Left In: 268.807+/-0.087  $\chi^2/\text{NDF}$ : 5290495.4/14

# asym\_atl\_dd\_mean vs slug



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

Left Out: 416.497+/-633.685  $\chi^2$ /NDF:8.2/15

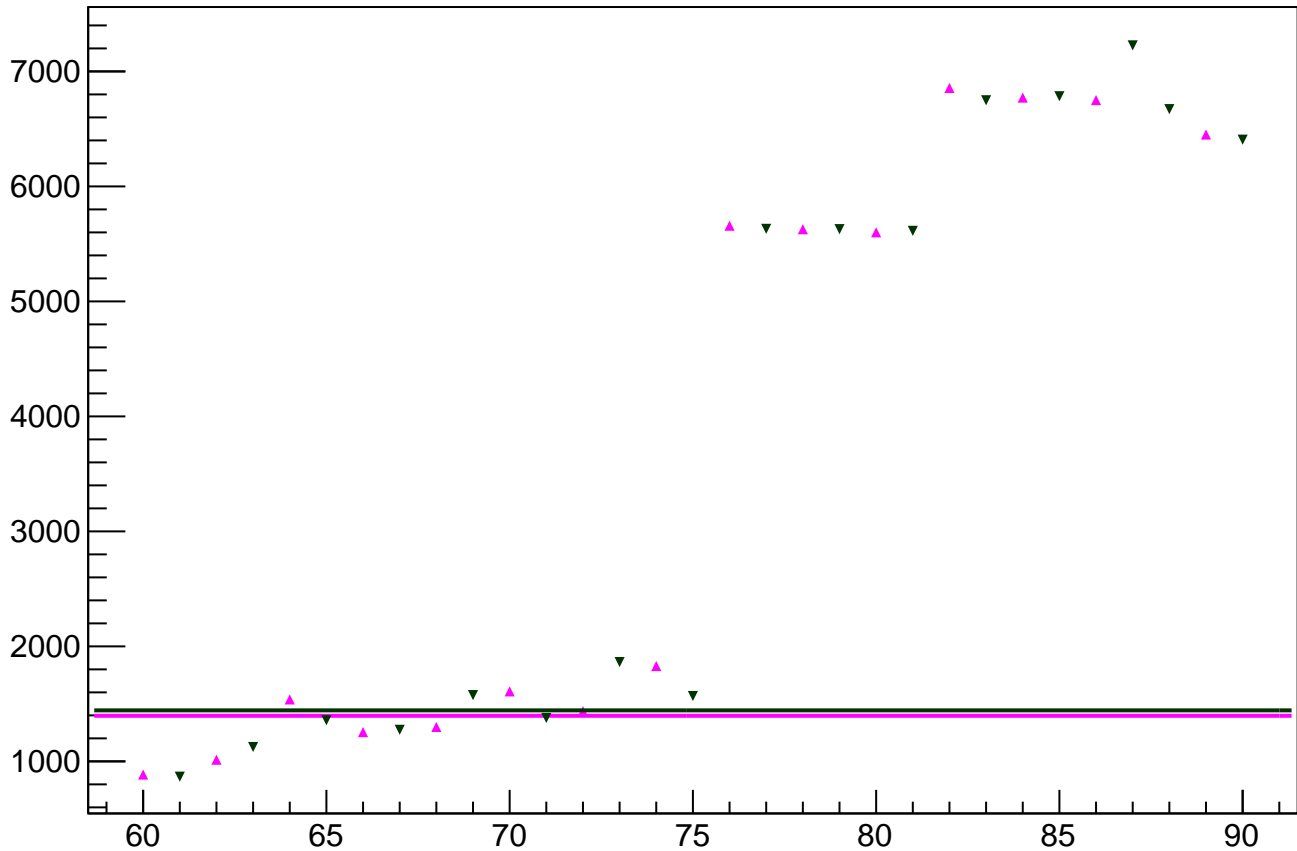
416.497+/-633.685  $\chi^2$ /NDF: 8.2/15

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

210.645+/-613.690  $\chi^2$ /NDF: 27.2/14

Left In: 210.645+/-613.690  $\chi^2$ /NDF:27.2/14

# asym\_atl\_dd\_rms vs slug



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

Left Out: 1443.528+/-0.448  $\chi^2$ /NDF:4724728.6/15

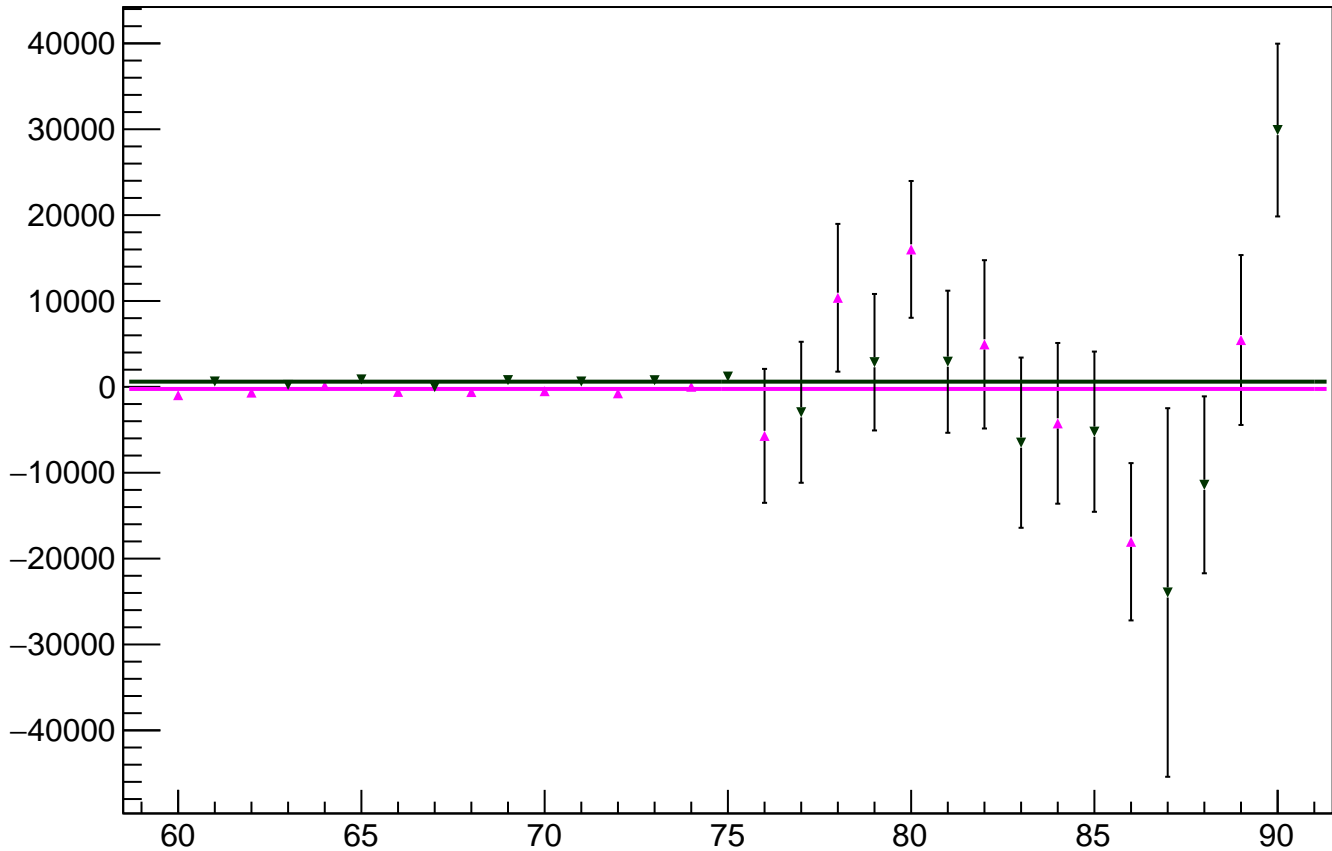
1443.528+/-0.448  $\chi^2$ /NDF: 4724728.6/15

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

1396.467+/-0.434  $\chi^2$ /NDF: 4936160.5/14

Left In: 1396.467+/-0.434  $\chi^2$ /NDF:4936160.5/14

# reg\_asym\_atr\_avg\_mean vs slug



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

606.671+/-142.495  $\chi^2/\text{NDF}$ : 19.0/15

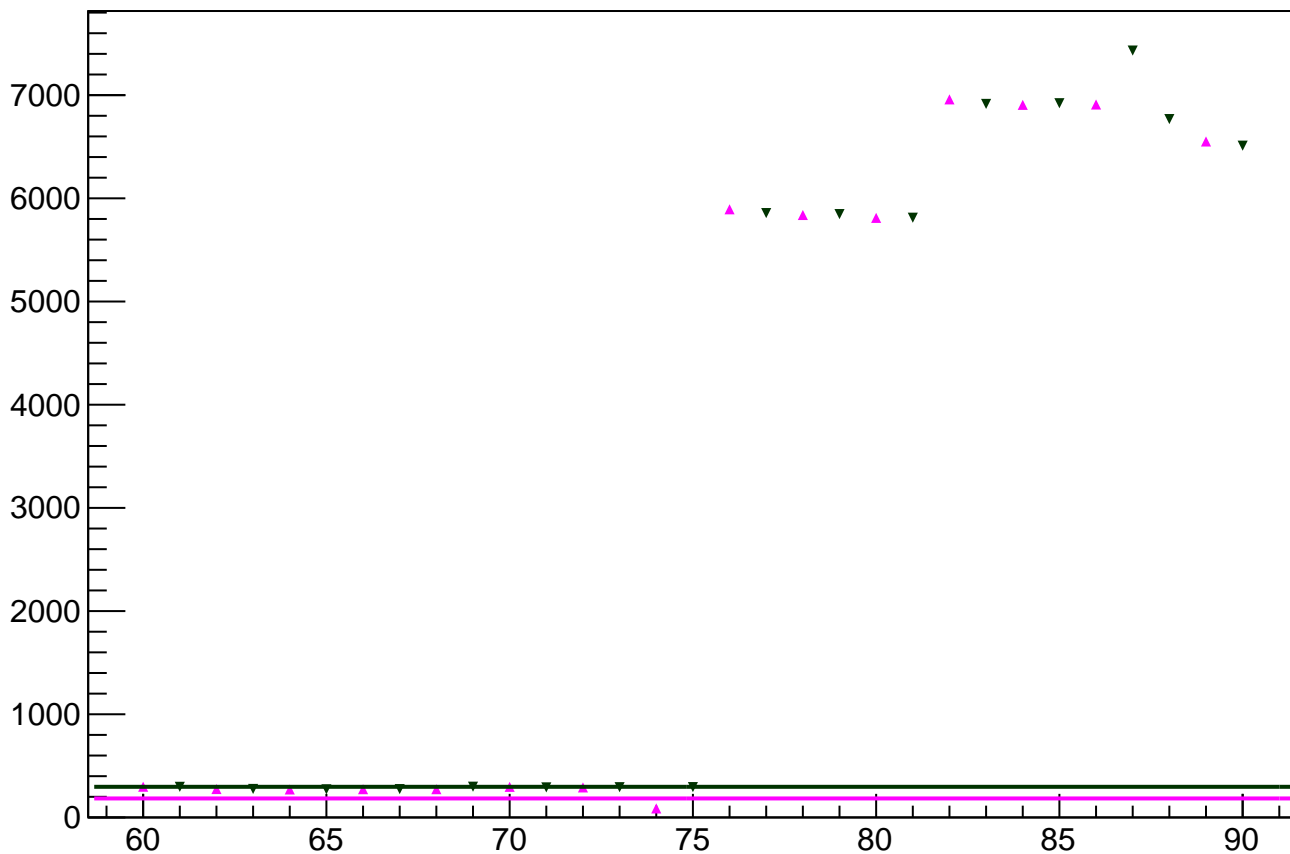
Left Out: 606.671+/-142.495  $\chi^2/\text{NDF}$ : 19.0/15

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

-241.952+/-102.081  $\chi^2/\text{NDF}$ : 22.8/14

Left In: -241.952+/-102.081  $\chi^2/\text{NDF}$ : 22.8/14

# reg\_asym\_atr\_avg\_rms vs slug



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

Left Out: 297.005+/-0.101  $\chi^2$ /NDF:6475520.4/15

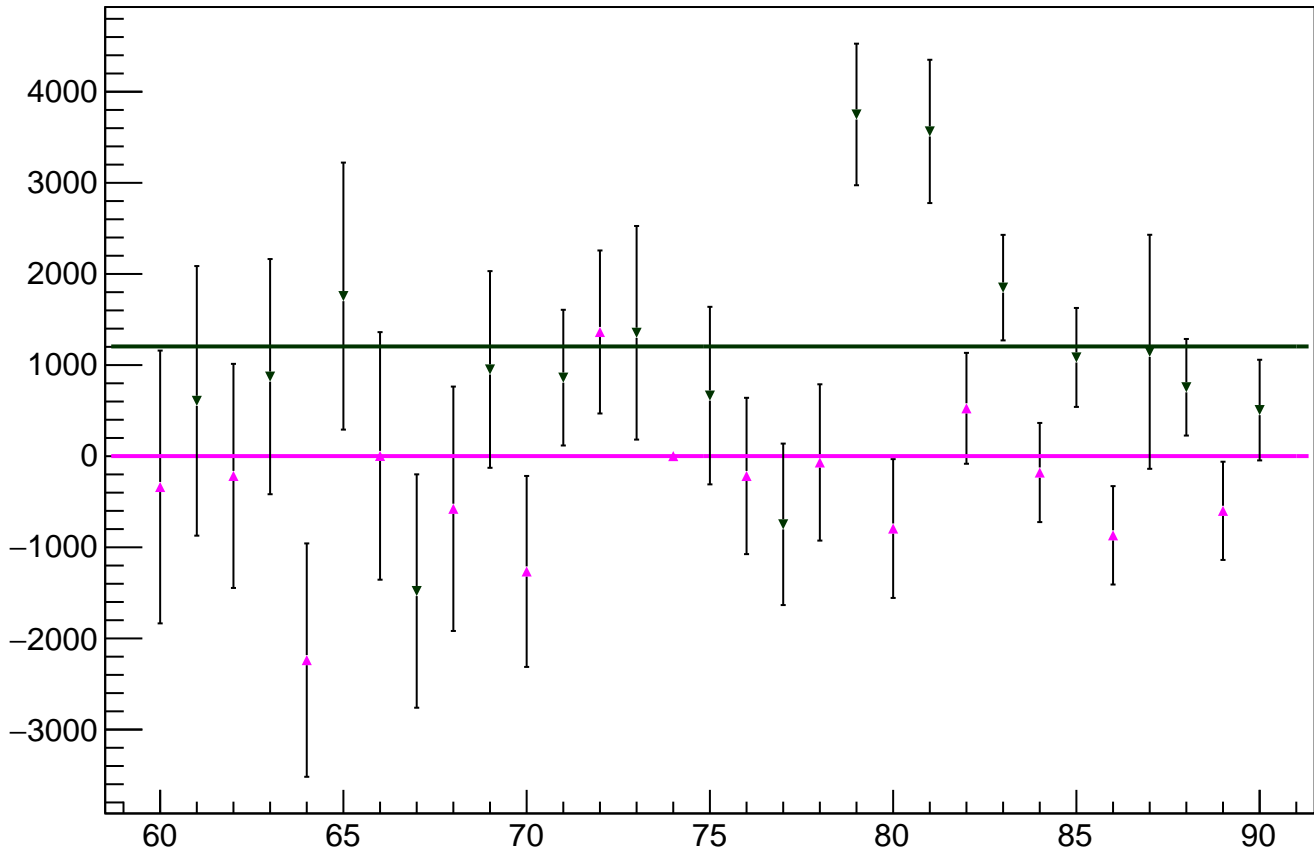
297.005+/-0.101  $\chi^2$ /NDF: 6475520.4/15

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

Left In: 184.162+/-0.072  $\chi^2$ /NDF:8651496.2/14

184.162+/-0.072  $\chi^2$ /NDF: 8651496.2/14

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



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

1204.484+/-200.229  $\chi^2/\text{NDF}$ : 33.6/15

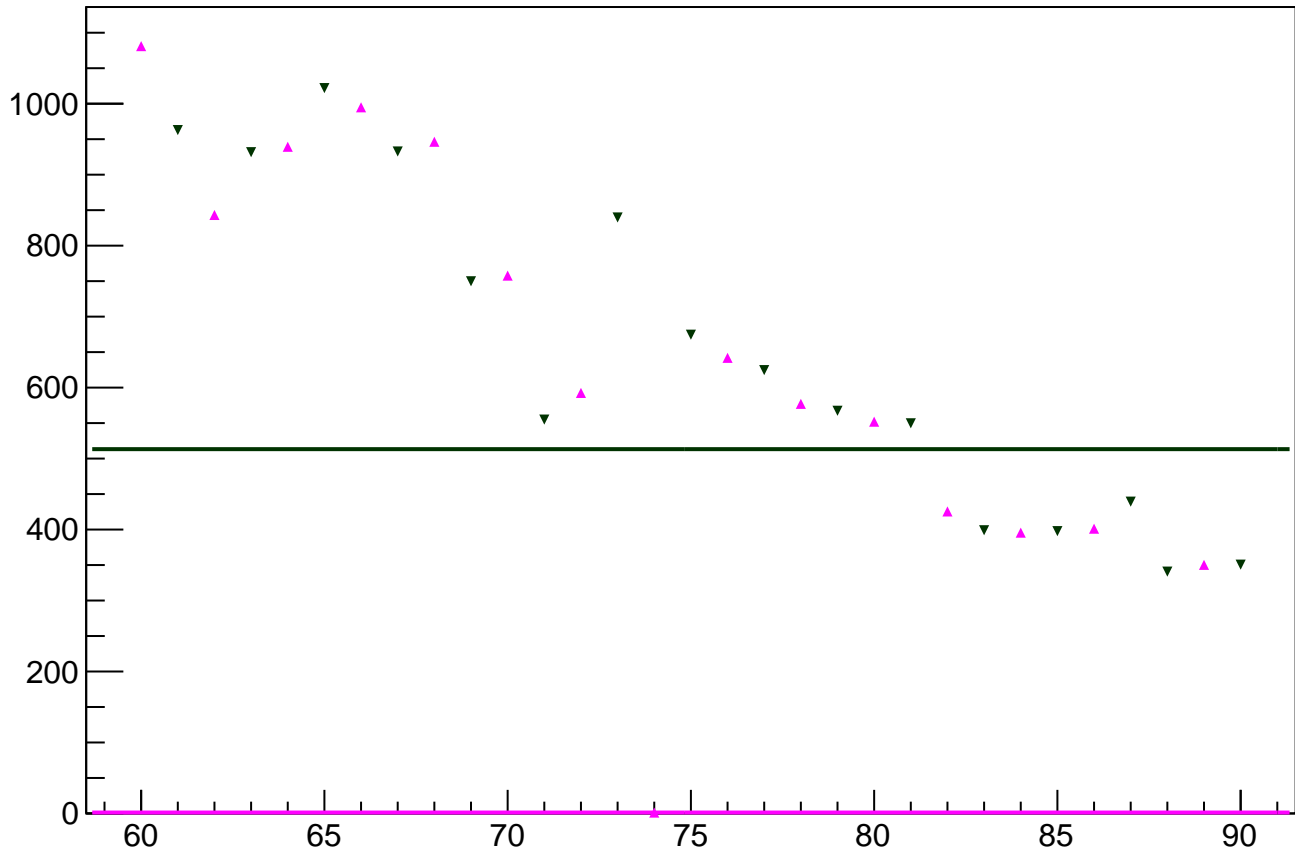
Left Out: 1204.484+/-200.229  $\chi^2/\text{NDF}$ : 33.6/15

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

1.154+/-2.418  $\chi^2/\text{NDF}$ : 13.0/14

Left In: 1.154+/-2.418  $\chi^2/\text{NDF}$ : 13.0/14

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



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

Left Out: 513.285+/-0.142  $\chi^2/\text{NDF}$ : 1768870.1/15

513.285+/-0.142  $\chi^2/\text{NDF}$ : 1768870.1/15

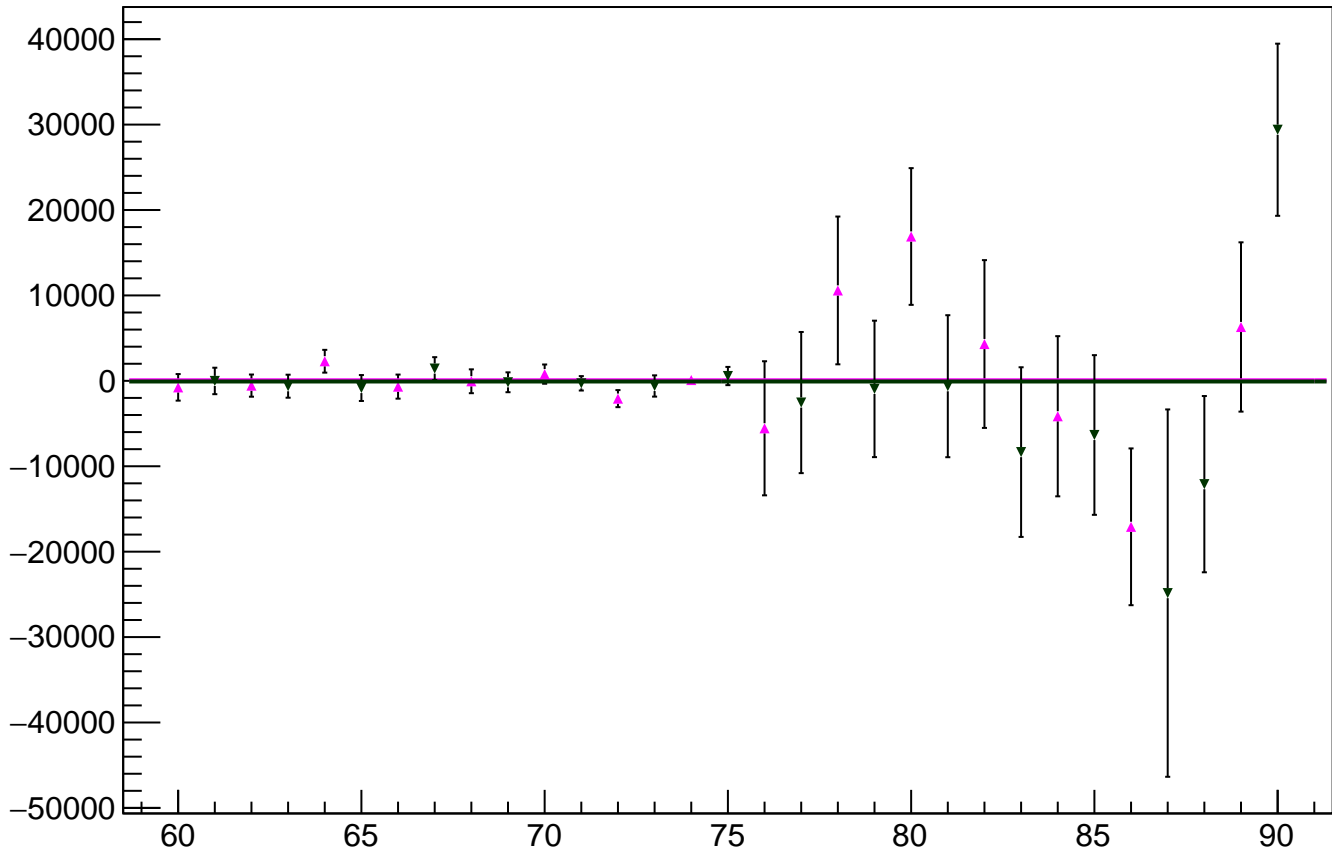
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.297+/-0.002  $\chi^2/\text{NDF}$ : 14052544.8/14

Left In: 1.297+/-0.002  $\chi^2/\text{NDF}$ : 14052544.8/14



# asym\_atr\_avg\_mean vs slug



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

Left Out: -75.774+/-418.104  $\chi^2$ /NDF:14.8/15

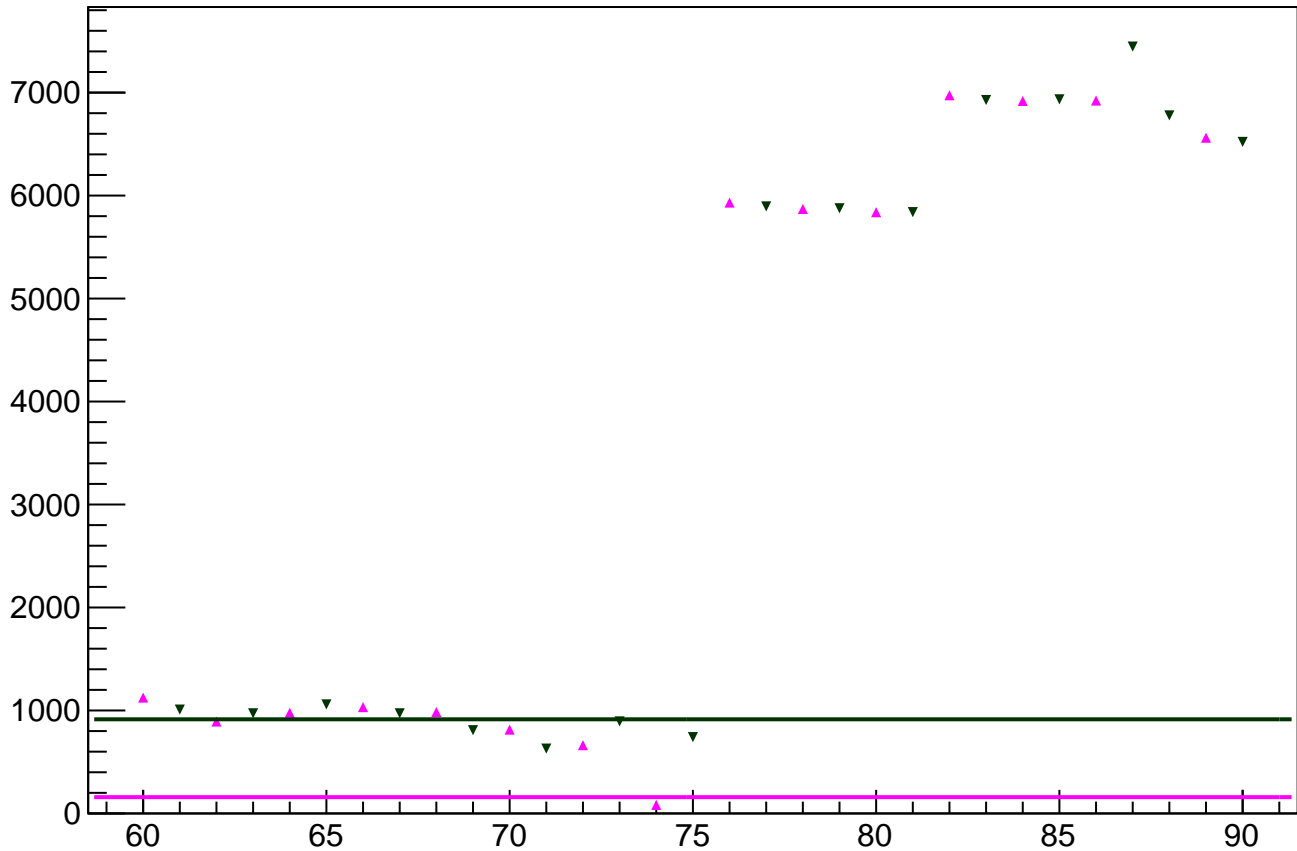
-75.774+/-418.104  $\chi^2$ /NDF: 14.8/15

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

66.953+/-136.112  $\chi^2$ /NDF: 19.4/14

Left In: 66.953+/-136.112  $\chi^2$ /NDF:19.4/14

# asym\_atr\_avg\_rms vs slug



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

Left Out: 914.248+/-0.296  $\chi^2$ /NDF:5543889.8/15

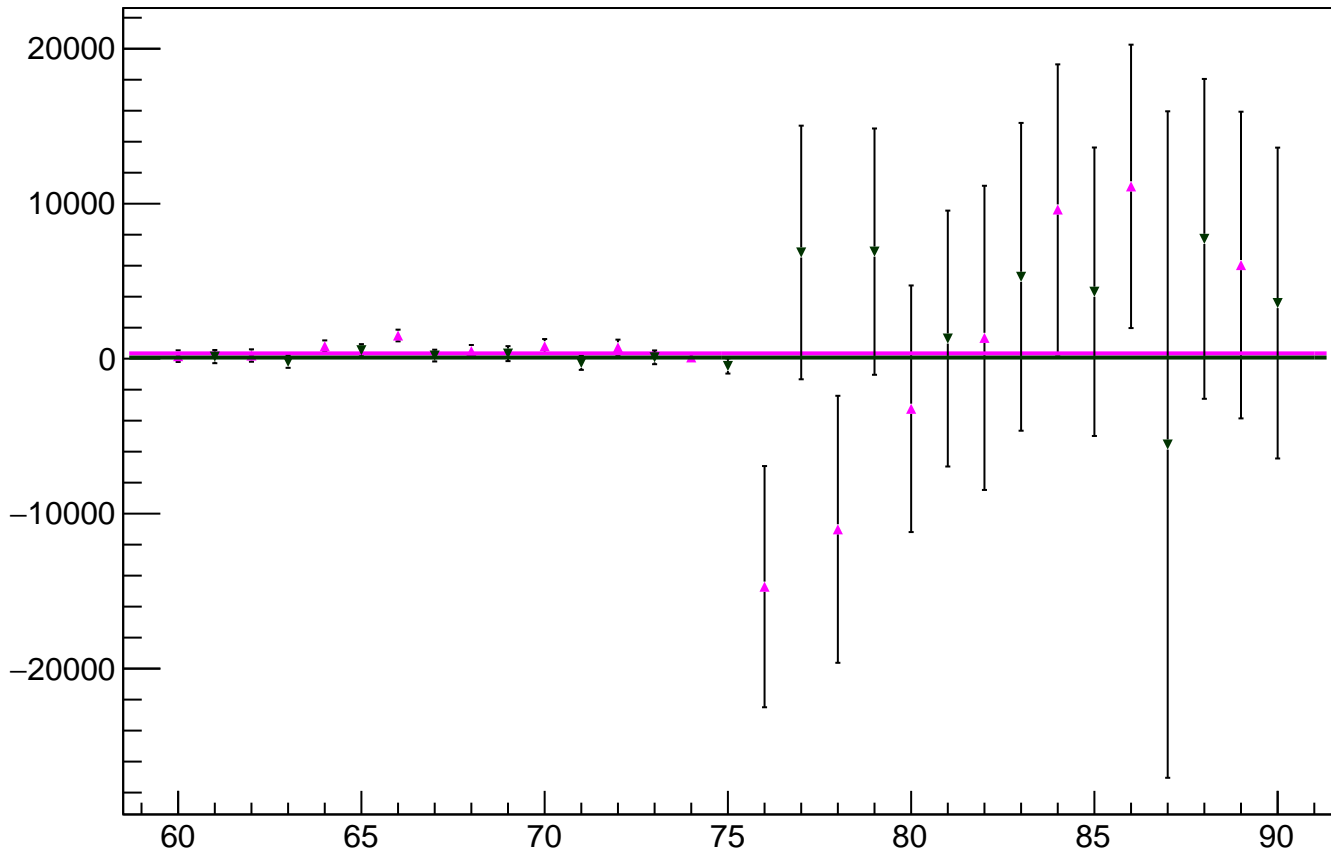
914.248+/-0.296  $\chi^2$ /NDF: 5543889.8/15

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

Left In: 158.428+/-0.096  $\chi^2$ /NDF:12277820.9/14

158.428+/-0.096  $\chi^2$ /NDF: 12277820.9/14

# reg\_asym\_atr\_dd\_mean vs slug



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

Left Out: 71.068+/-150.442  $\chi^2$ /NDF:6.9/15

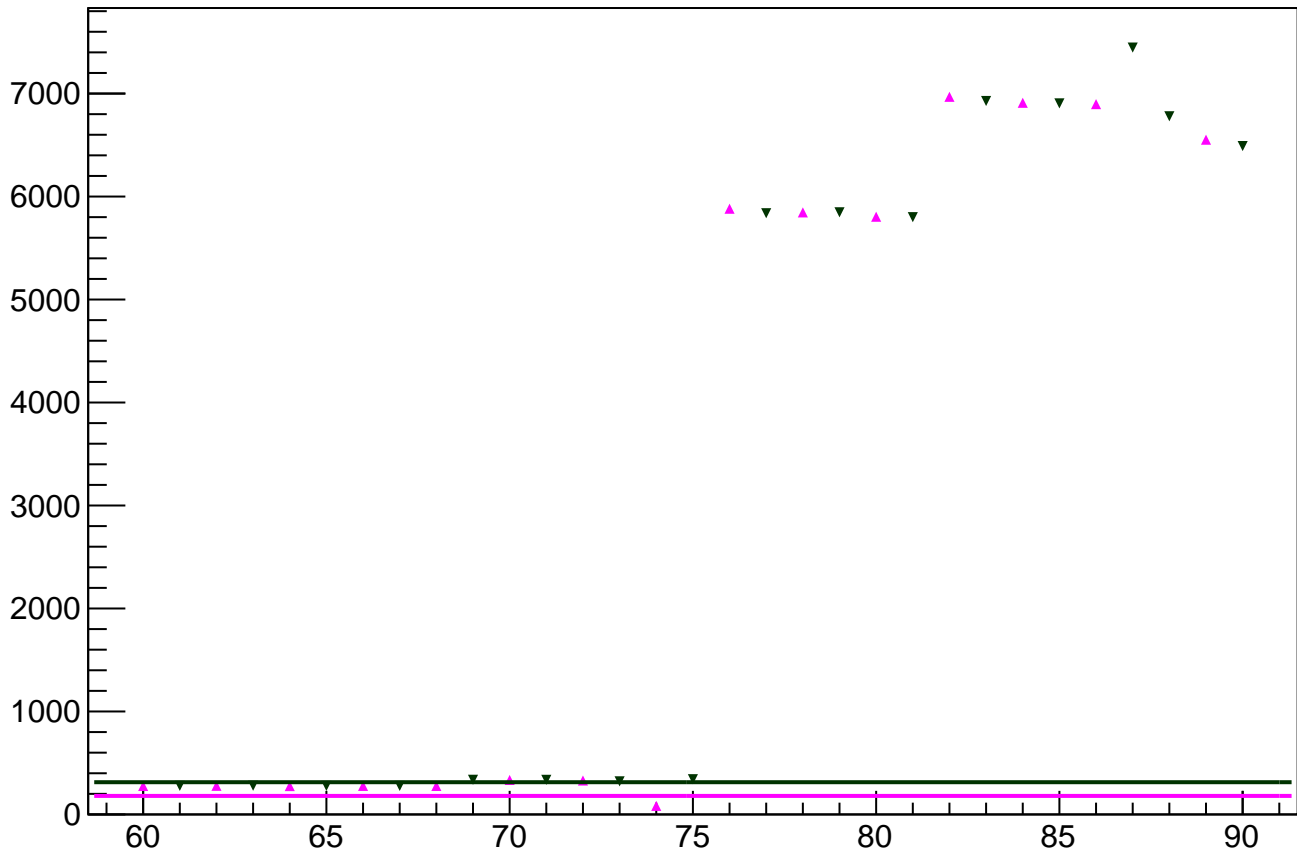
71.068+/-150.442  $\chi^2$ /NDF: 6.9/15

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

341.395+/-101.919  $\chi^2$ /NDF: 24.9/14

Left In: 341.395+/-101.919  $\chi^2$ /NDF:24.9/14

# reg\_asym\_atr\_dd\_rms vs slug



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

Left Out: 313.103+/-0.106  $\chi^2$ /NDF:6501845.1/15

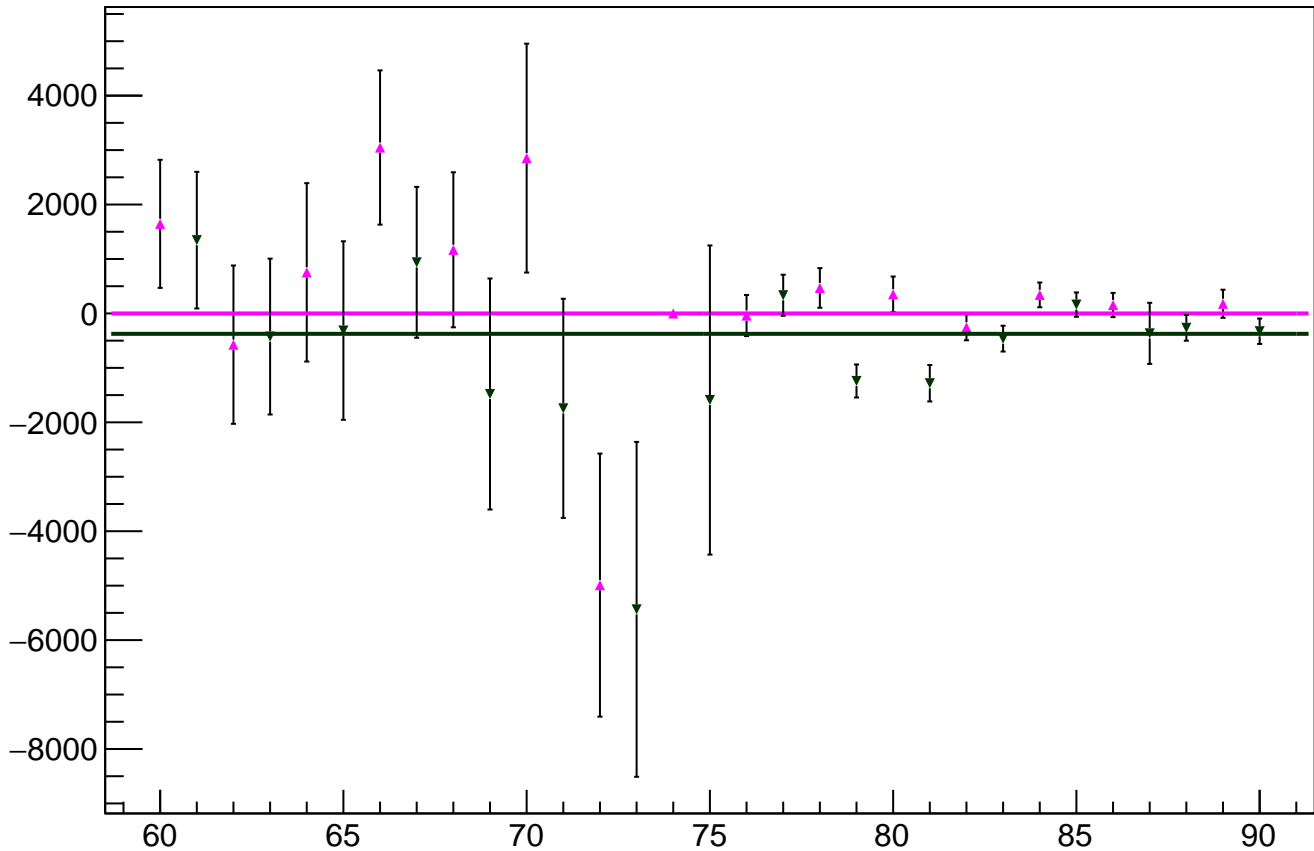
313.103+/-0.106  $\chi^2$ /NDF: 6501845.1/15

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

180.105+/-0.072  $\chi^2$ /NDF: 8878004.3/14

Left In: 180.105+/-0.072  $\chi^2$ /NDF:8878004.3/14

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



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

Left Out: -374.800+/-96.695  $\chi^2$ /NDF:31.6/15

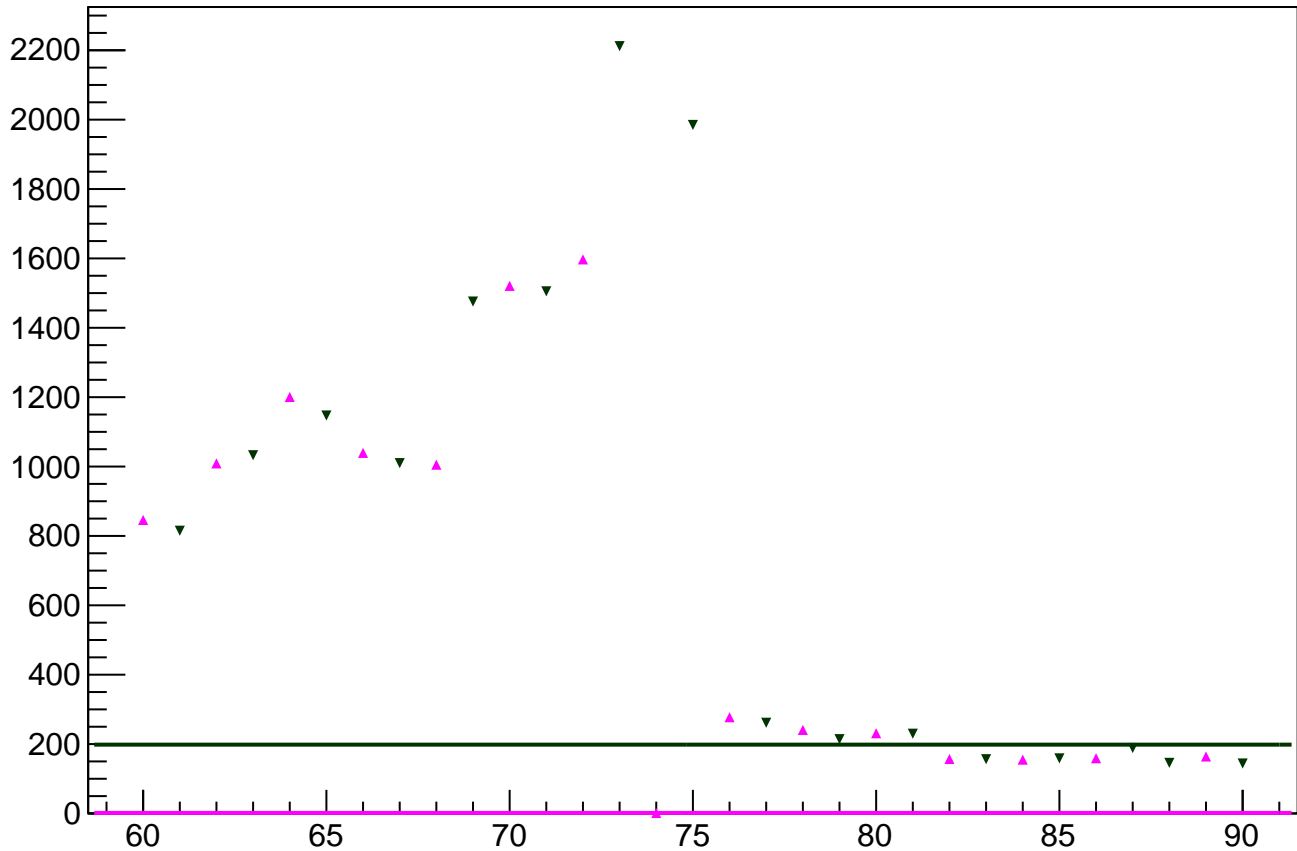
-374.800+/-96.695  $\chi^2$ /NDF: 31.6/15

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

Left In: -0.016+/-2.637  $\chi^2$ /NDF:20.9/14

-0.016+/-2.637  $\chi^2$ /NDF: 20.9/14

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



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

198.367+/-0.068  $\chi^2$ /NDF: 6147774.5/15

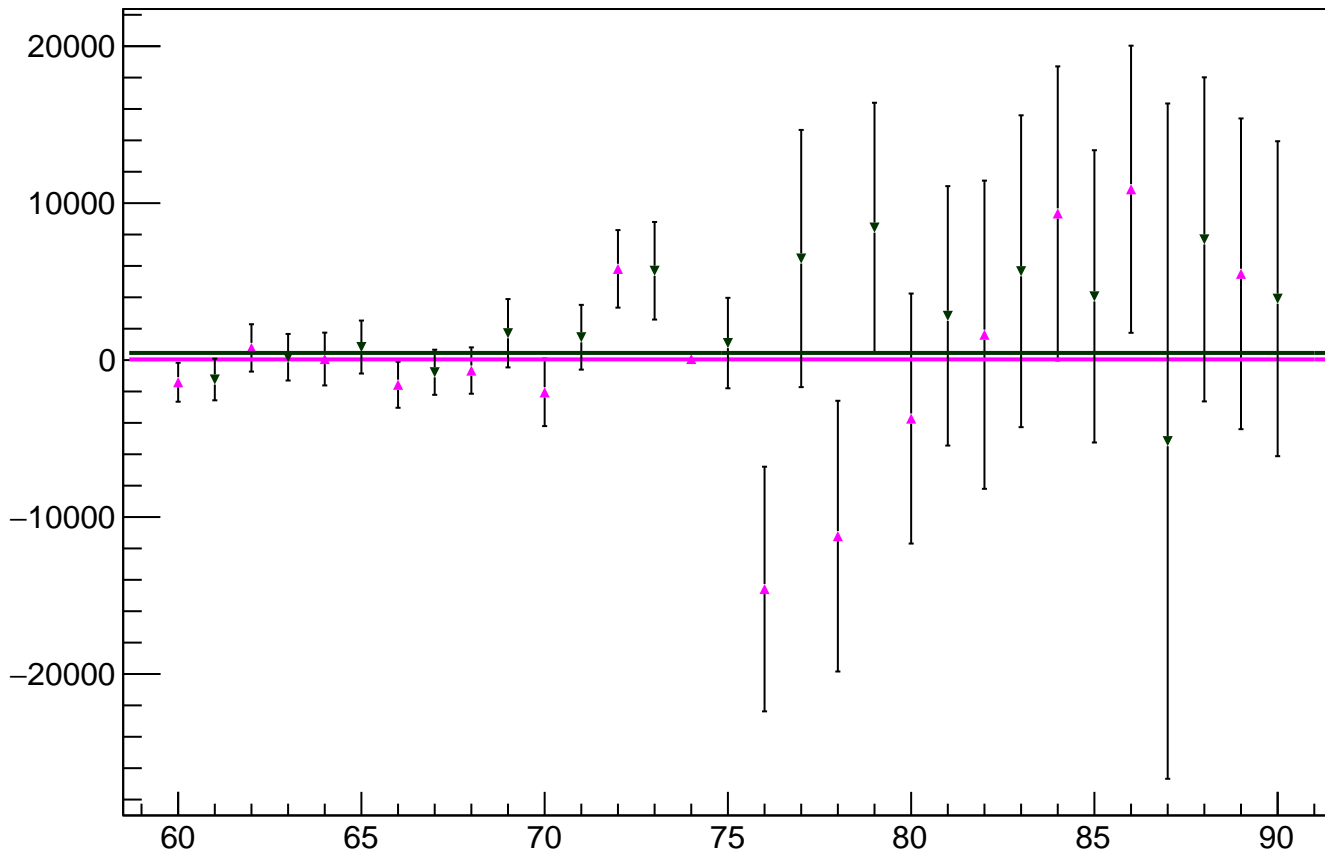
Left Out: 198.367+/-0.068  $\chi^2$ /NDF:6147774.5/15

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

1.522+/-0.002  $\chi^2$ /NDF: 13547534.9/14

Left In: 1.522+/-0.002  $\chi^2$ /NDF:13547534.9/14

# asym\_atr\_dd\_mean vs slug



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

Left Out: 456.900+/-618.186  $\chi^2$ /NDF:8.6/15

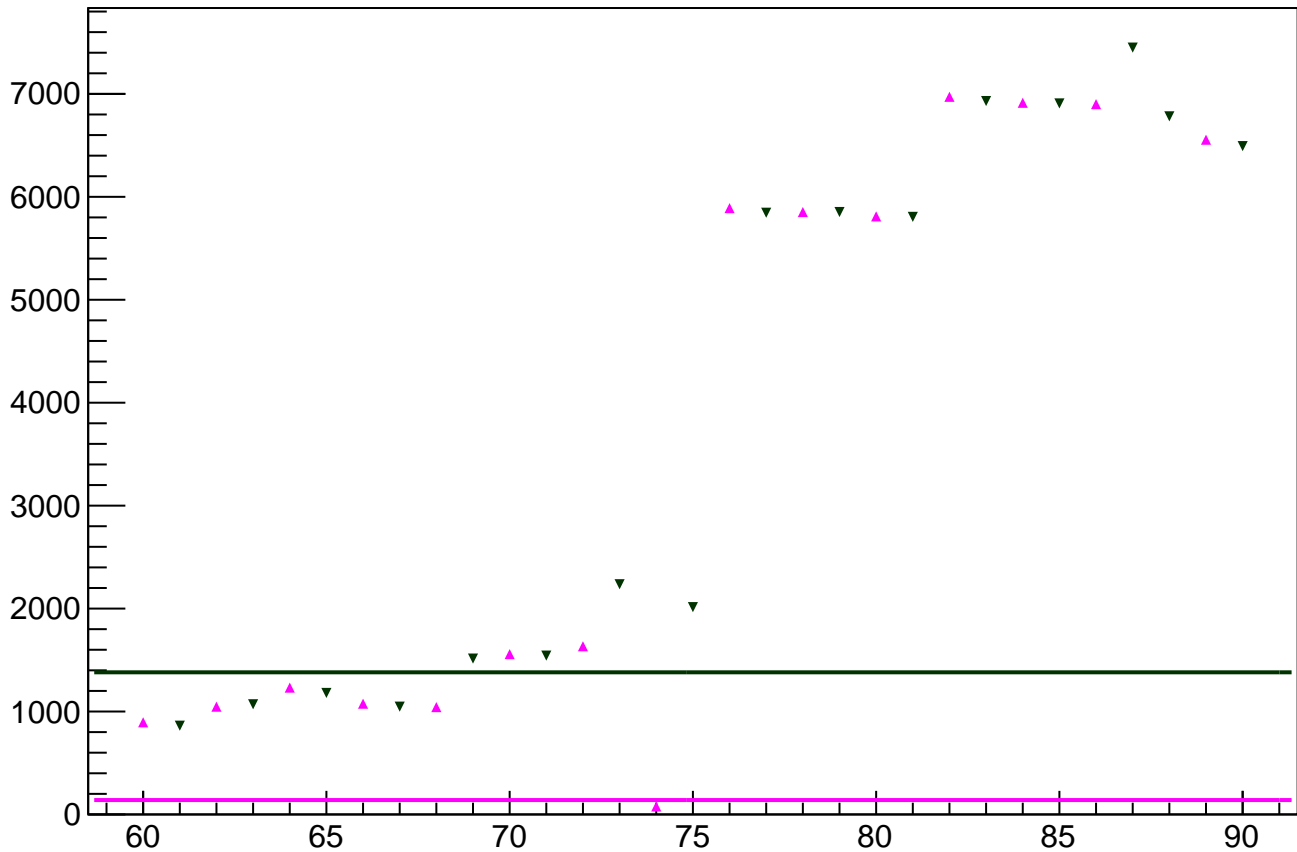
456.900+/-618.186  $\chi^2$ /NDF: 8.6/15

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

44.421+/-134.644  $\chi^2$ /NDF: 17.7/14

Left In: 44.421+/-134.644  $\chi^2$ /NDF:17.7/14

# asym\_atr\_dd\_rms vs slug



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

Left Out: 1380.845+/-0.437  $\chi^2$ /NDF: 5150526.7/15

1380.845+/-0.437  $\chi^2$ /NDF: 5150526.7/15

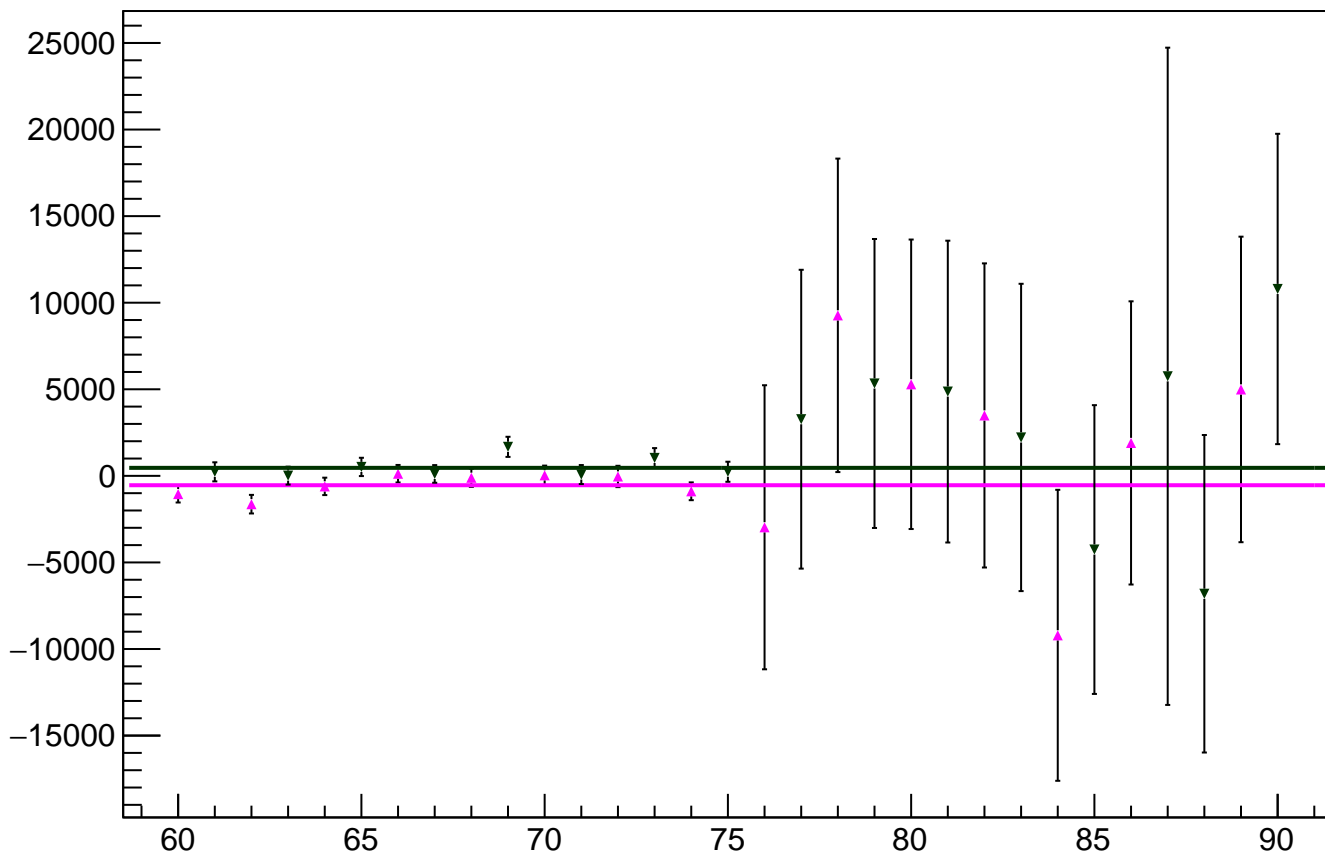
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

139.929+/-0.095  $\chi^2$ /NDF: 12794788.1/14

Left In: 139.929+/-0.095  $\chi^2$ /NDF: 12794788.1/14



# reg\_asym\_at1\_avg\_mean vs slug



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

Left Out: 462.109+/-192.622  $\chi^2$ /NDF:10.5/15

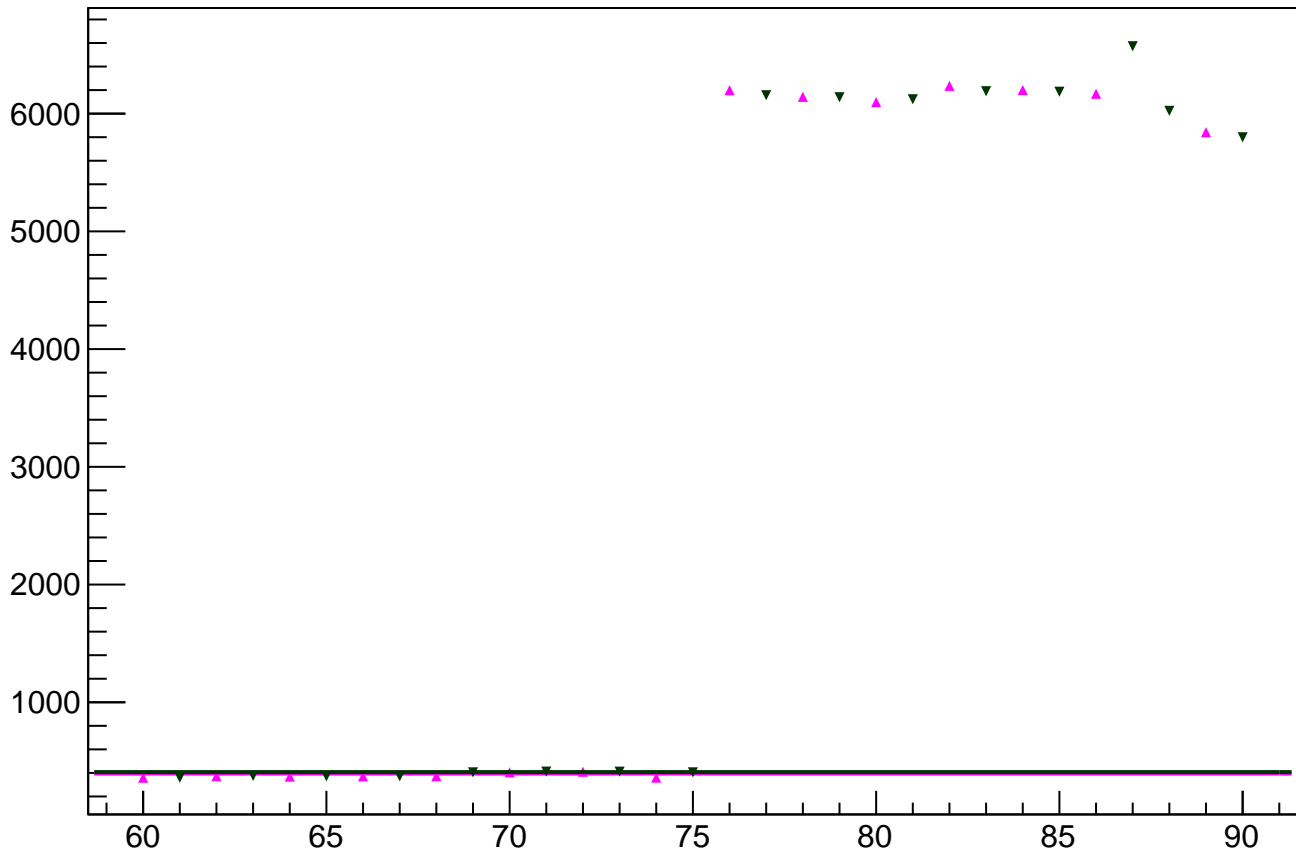
462.109+/-192.622  $\chi^2$ /NDF: 10.5/15

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

Left In: -541.084+/-186.148  $\chi^2$ /NDF:13.4/14

-541.084+/-186.148  $\chi^2$ /NDF: 13.4/14

# reg\_asym\_at1\_avg\_rms vs slug



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

Left Out: 407.125+/-0.136  $\chi^2$ /NDF:6230507.3/15

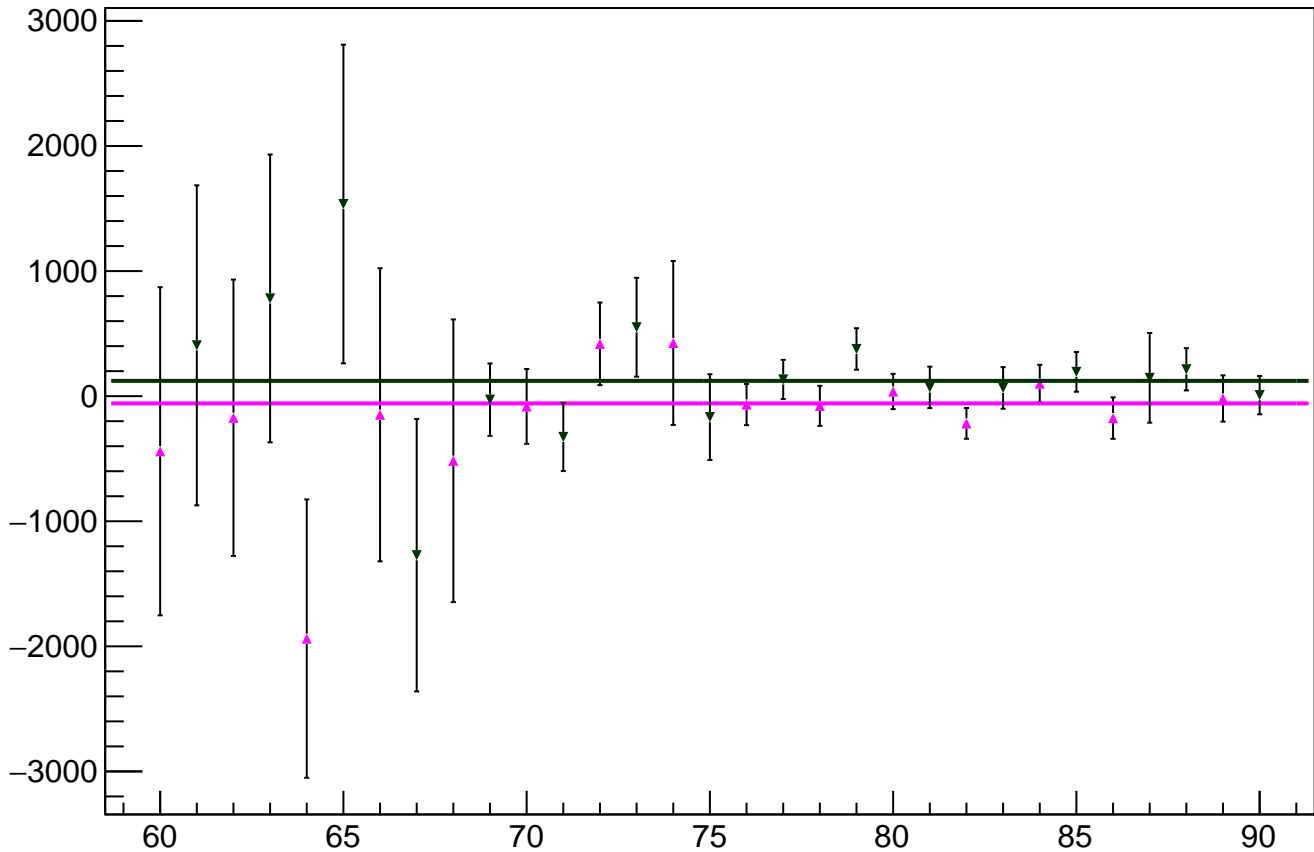
407.125+/-0.136  $\chi^2$ /NDF: 6230507.3/15

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

394.559+/-0.132  $\chi^2$ /NDF: 6376371.3/14

Left In: 394.559+/-0.132  $\chi^2$ /NDF:6376371.3/14

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



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

122.371+/-56.083  $\chi^2/\text{NDF}$ : 11.8/15

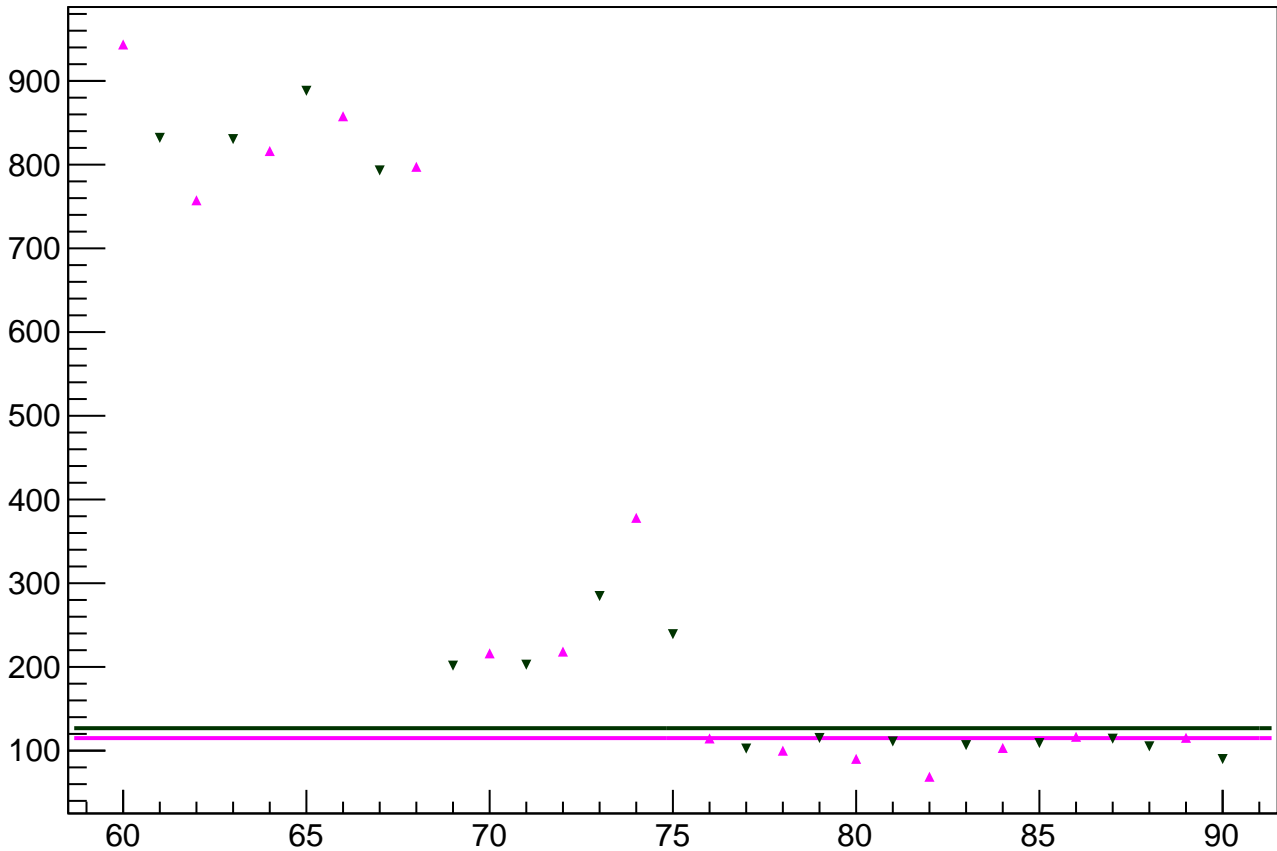
Left Out: 122.371+/-56.083  $\chi^2/\text{NDF}$ : 11.8/15

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

-57.753+/-55.144  $\chi^2/\text{NDF}$ : 9.6/14

Left In: -57.753+/-55.144  $\chi^2/\text{NDF}$ : 9.6/14

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



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

126.835+/-0.040  $\chi^2/\text{NDF}$ : 3923843.4/15

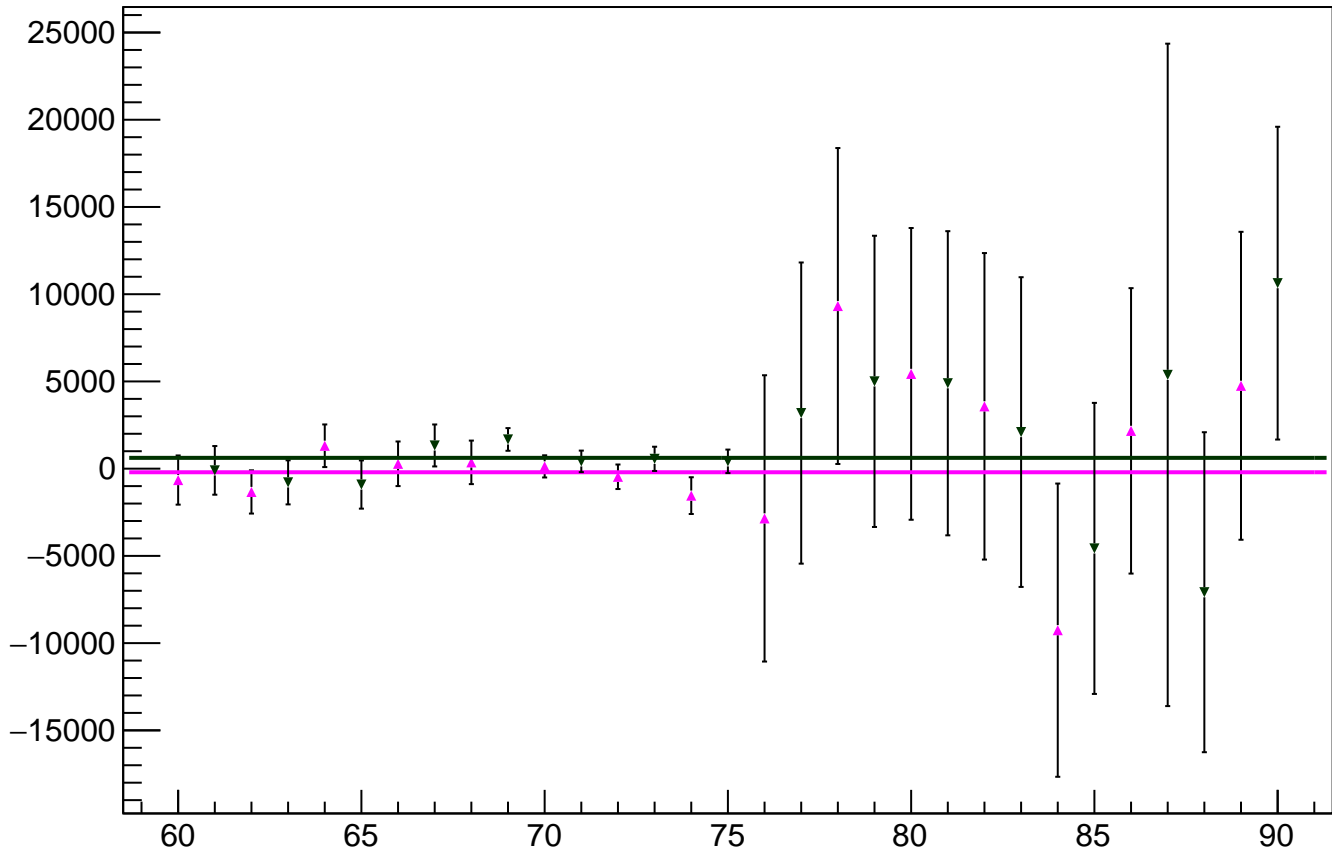
Left Out: 126.835+/-0.040  $\chi^2/\text{NDF}$ : 3923843.4/15

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

114.972+/-0.039  $\chi^2/\text{NDF}$ : 4922357.7/14

Left In: 114.972+/-0.039  $\chi^2/\text{NDF}$ : 4922357.7/14

# asym\_at1\_avg\_mean vs slug



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

619.542+/-292.064  $\chi^2$ /NDF: 9.0/15

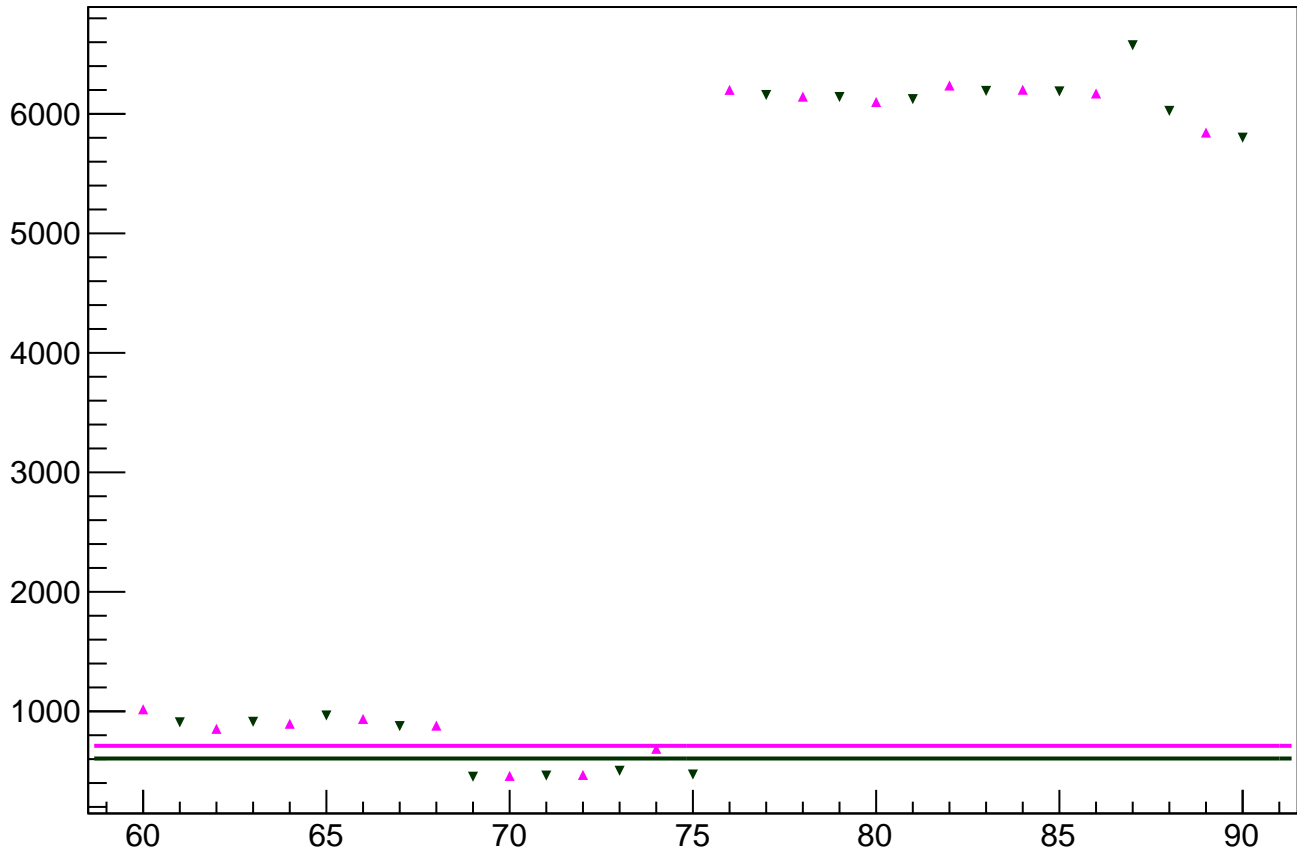
Left Out: 619.542+/-292.064  $\chi^2$ /NDF:9.0/15

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

-206.165+/-341.396  $\chi^2$ /NDF: 8.3/14

Left In: -206.165+/-341.396  $\chi^2$ /NDF:8.3/14

# asym\_at1\_avg\_rms vs slug



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

Left Out: 605.277+/-0.207  $\chi^2$ /NDF:6556050.0/15

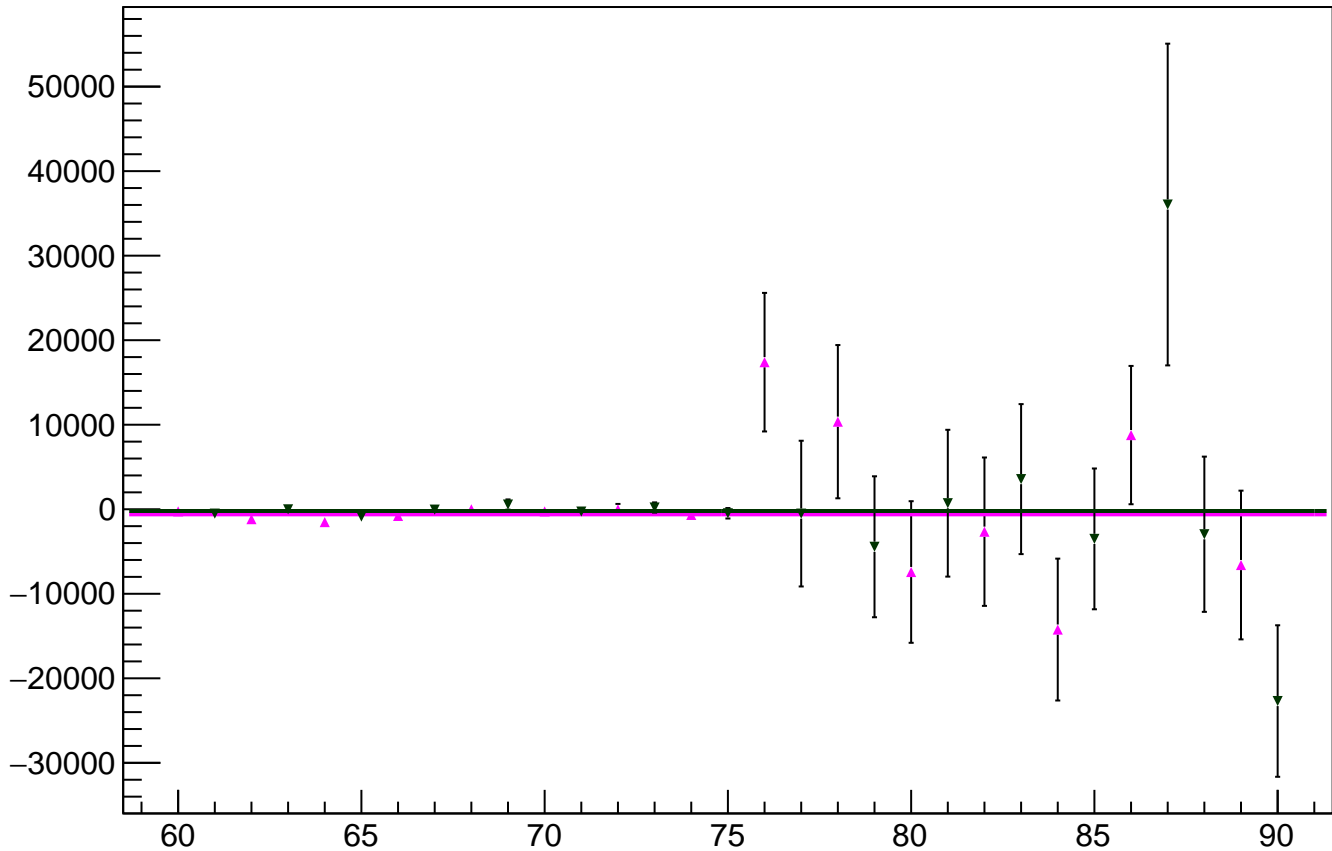
605.277+/-0.207  $\chi^2$ /NDF: 6556050.0/15

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

711.384+/-0.241  $\chi^2$ /NDF: 6478771.4/14

Left In: 711.384+/-0.241  $\chi^2$ /NDF:6478771.4/14

# reg\_asym\_at1\_dd\_mean vs slug



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

Left Out: -206.676+/-197.723  $\chi^2$ /NDF:15.0/15

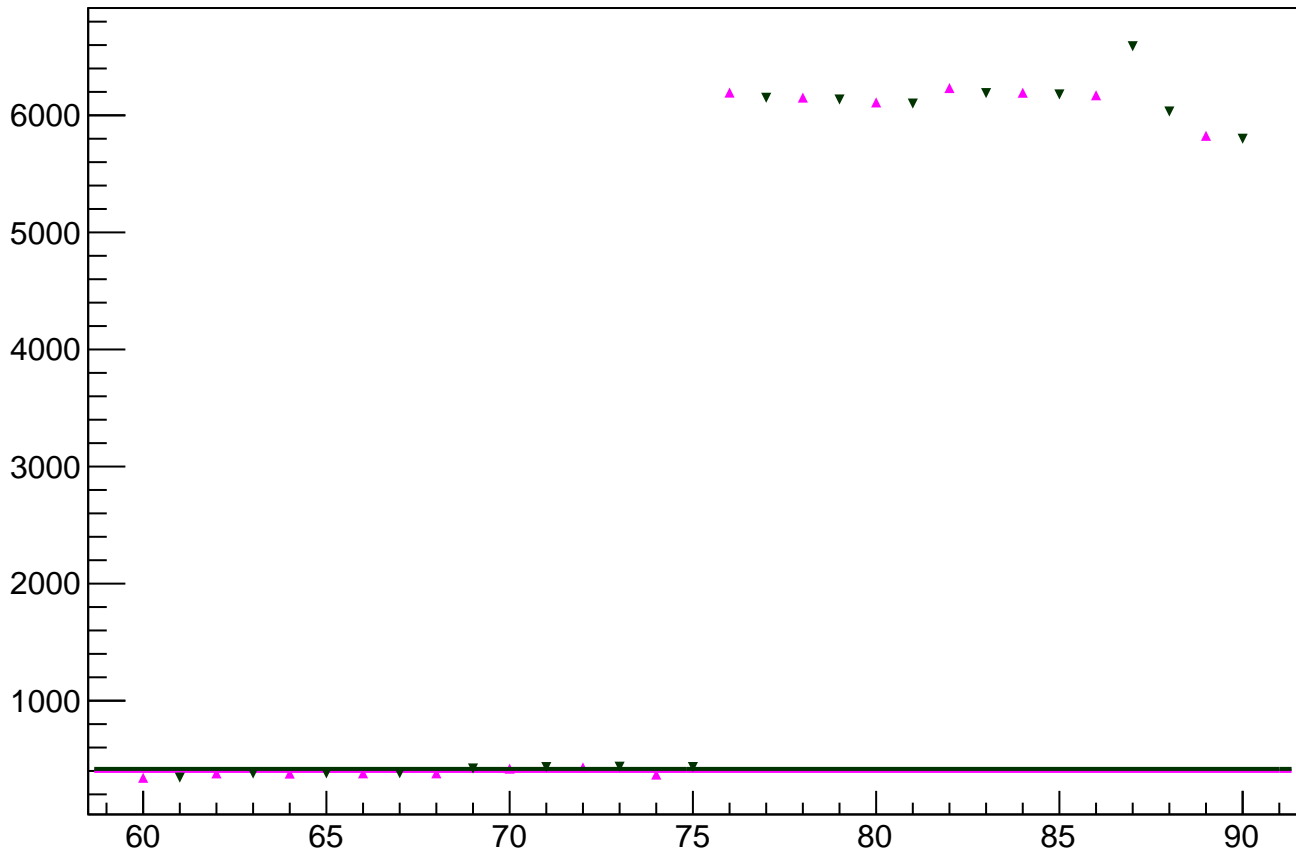
-206.676+/-197.723  $\chi^2$ /NDF: 15.0/15

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

-603.193+/-189.103  $\chi^2$ /NDF: 18.8/14

Left In: -603.193+/-189.103  $\chi^2$ /NDF:18.8/14

# reg\_asym\_at1\_dd\_rms vs slug



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

417.642+/-0.140  $\chi^2$ /NDF: 6241246.4/15

Left Out: 417.642+/-0.140  $\chi^2$ /NDF: 6241246.4/15

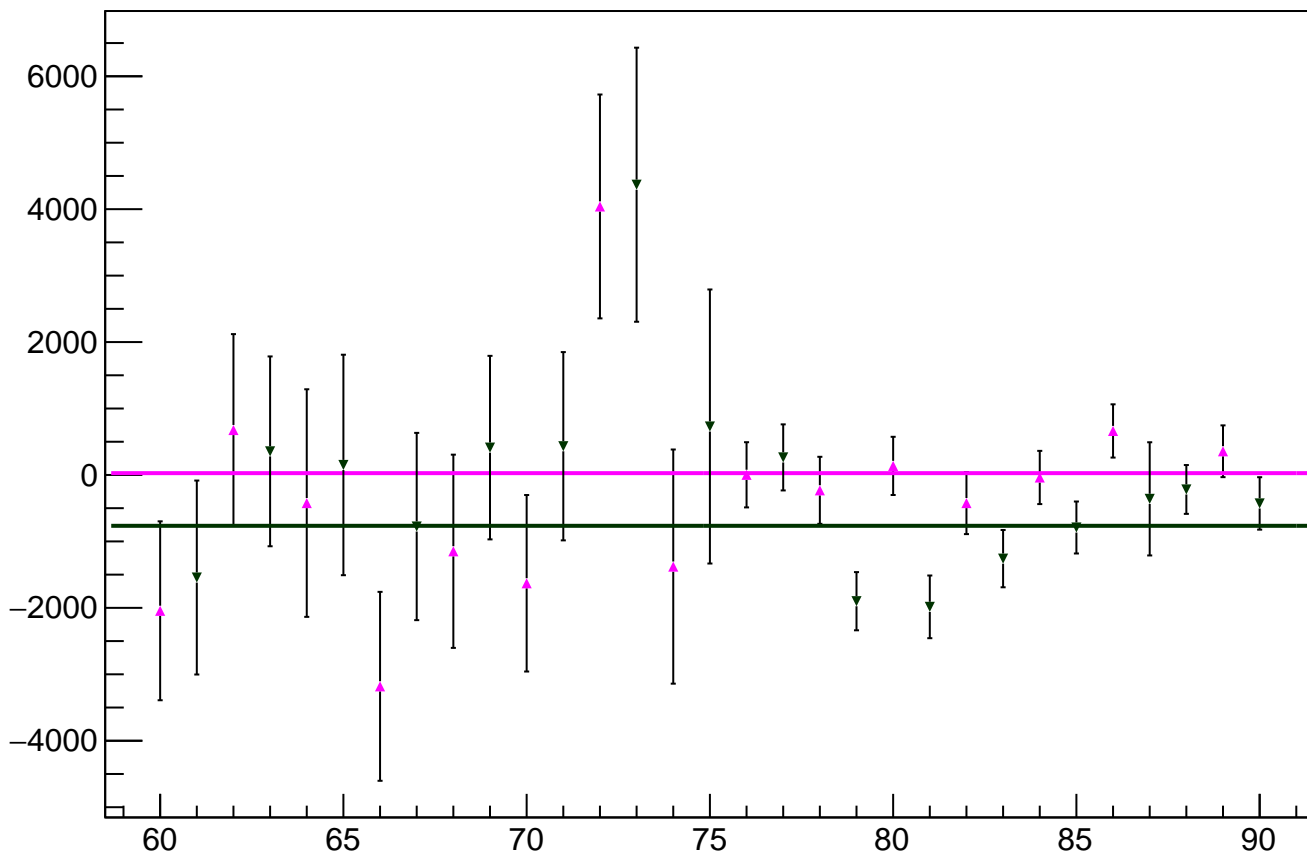
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

400.265+/-0.134  $\chi^2$ /NDF: 6383833.0/14

Left In: 400.265+/-0.134  $\chi^2$ /NDF: 6383833.0/14



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



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

Left Out: -765.203+/-150.408  $\chi^2$ /NDF:31.5/15

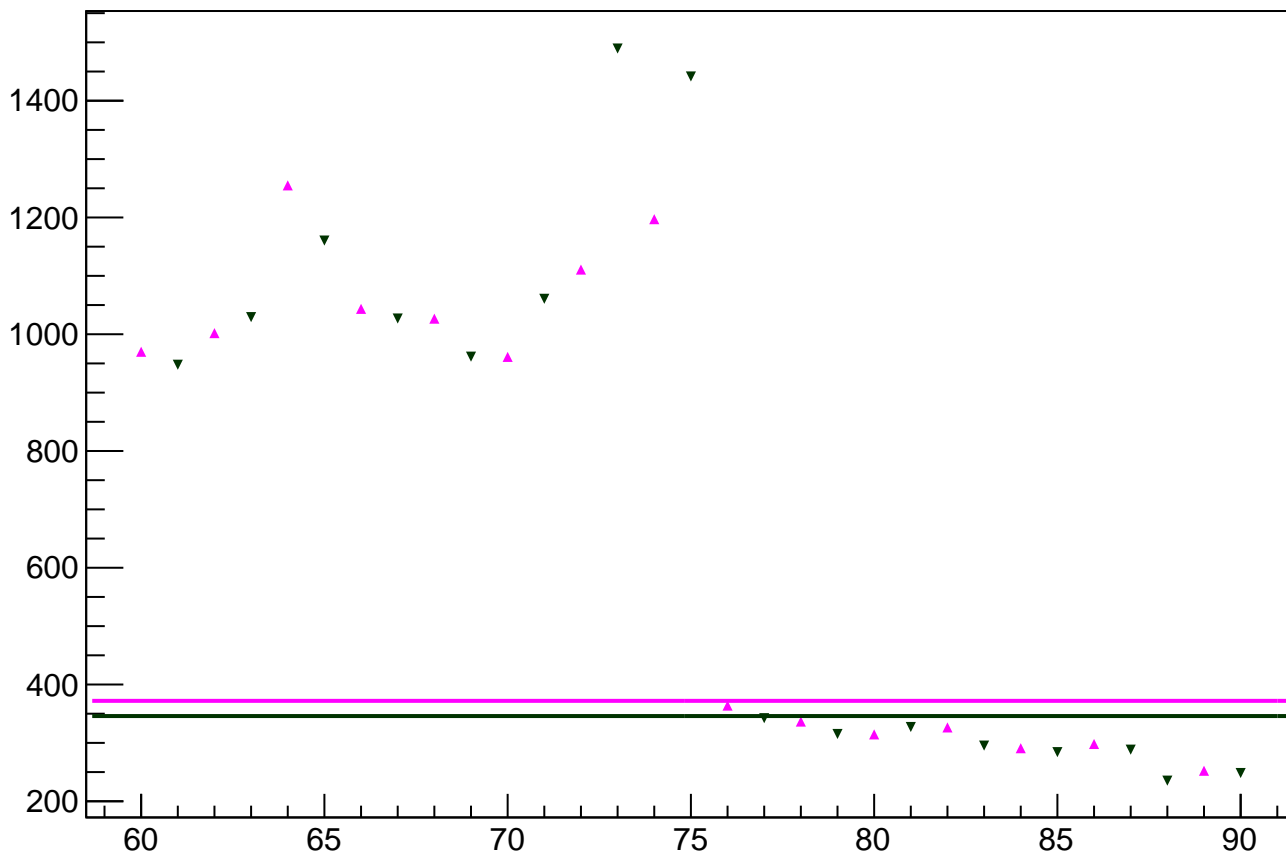
-765.203+/-150.408  $\chi^2$ /NDF: 31.5/15

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

27.328+/-157.117  $\chi^2$ /NDF: 20.8/14

Left In: 27.328+/-157.117  $\chi^2$ /NDF:20.8/14

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



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

Left Out: 345.969+/-0.106  $\chi^2$ /NDF:4236251.9/15

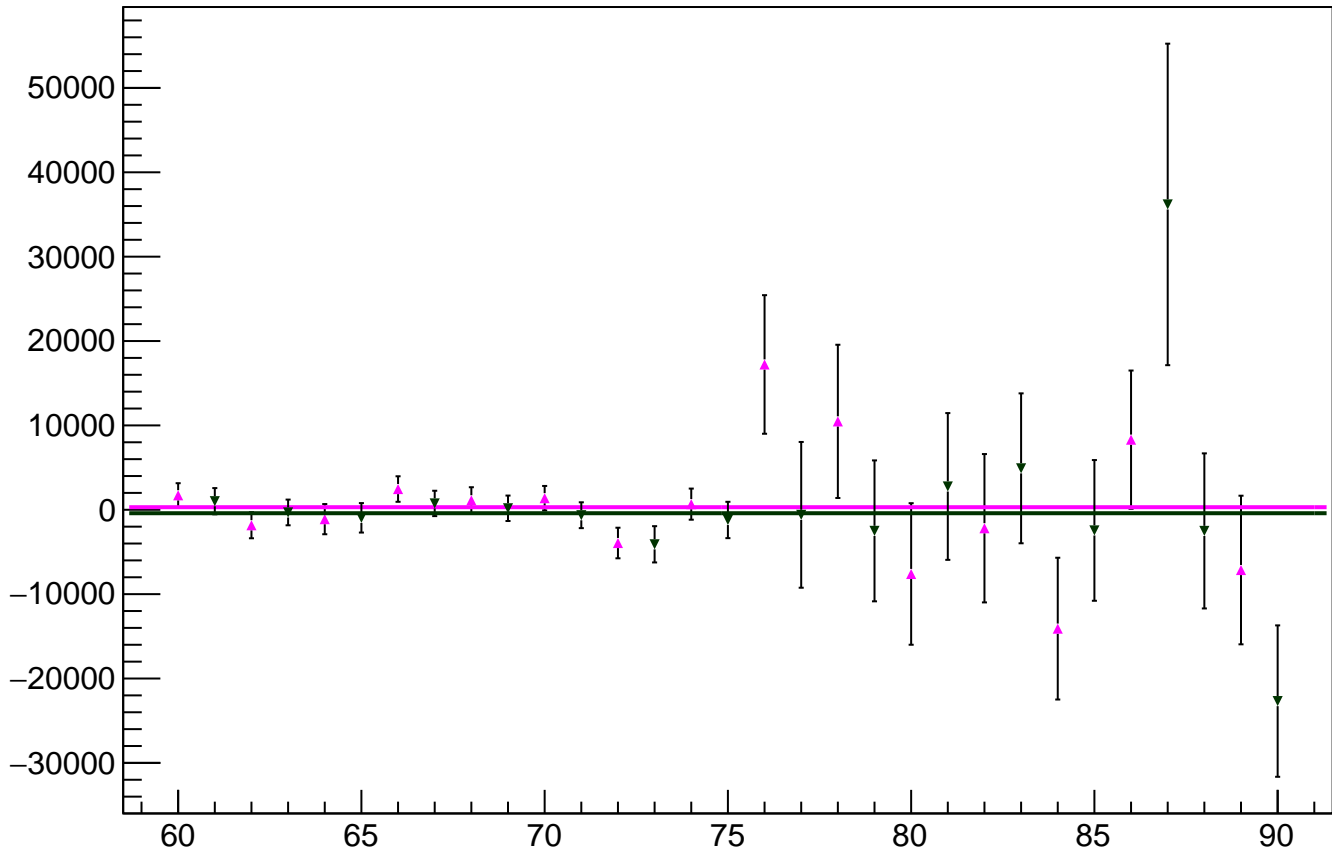
345.969+/-0.106  $\chi^2$ /NDF: 4236251.9/15

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

Left In: 372.008+/-0.111  $\chi^2$ /NDF:3778364.7/14

372.008+/-0.111  $\chi^2$ /NDF: 3778364.7/14

# asym\_at1\_dd\_mean vs slug



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

-408.733+/-576.422  $\chi^2$ /NDF: 15.3/15

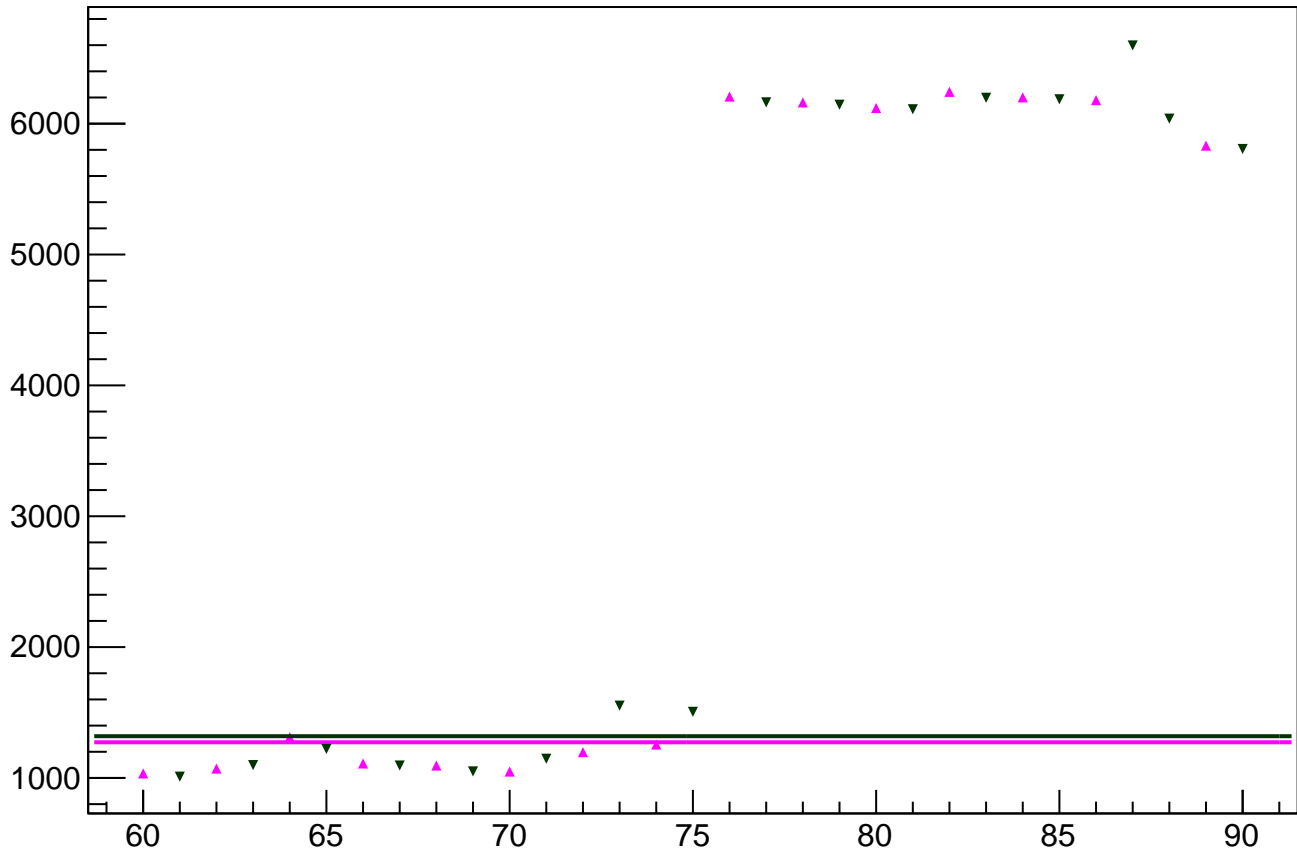
Left Out: -408.733+/-576.422  $\chi^2$ /NDF:15.3/15

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

305.325+/-555.332  $\chi^2$ /NDF: 23.0/14

Left In: 305.325+/-555.332  $\chi^2$ /NDF:23.0/14

# asym\_at1\_dd\_rms vs slug



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

Left Out: 1319.072+/-0.408  $\chi^2$ /NDF:4668203.9/15

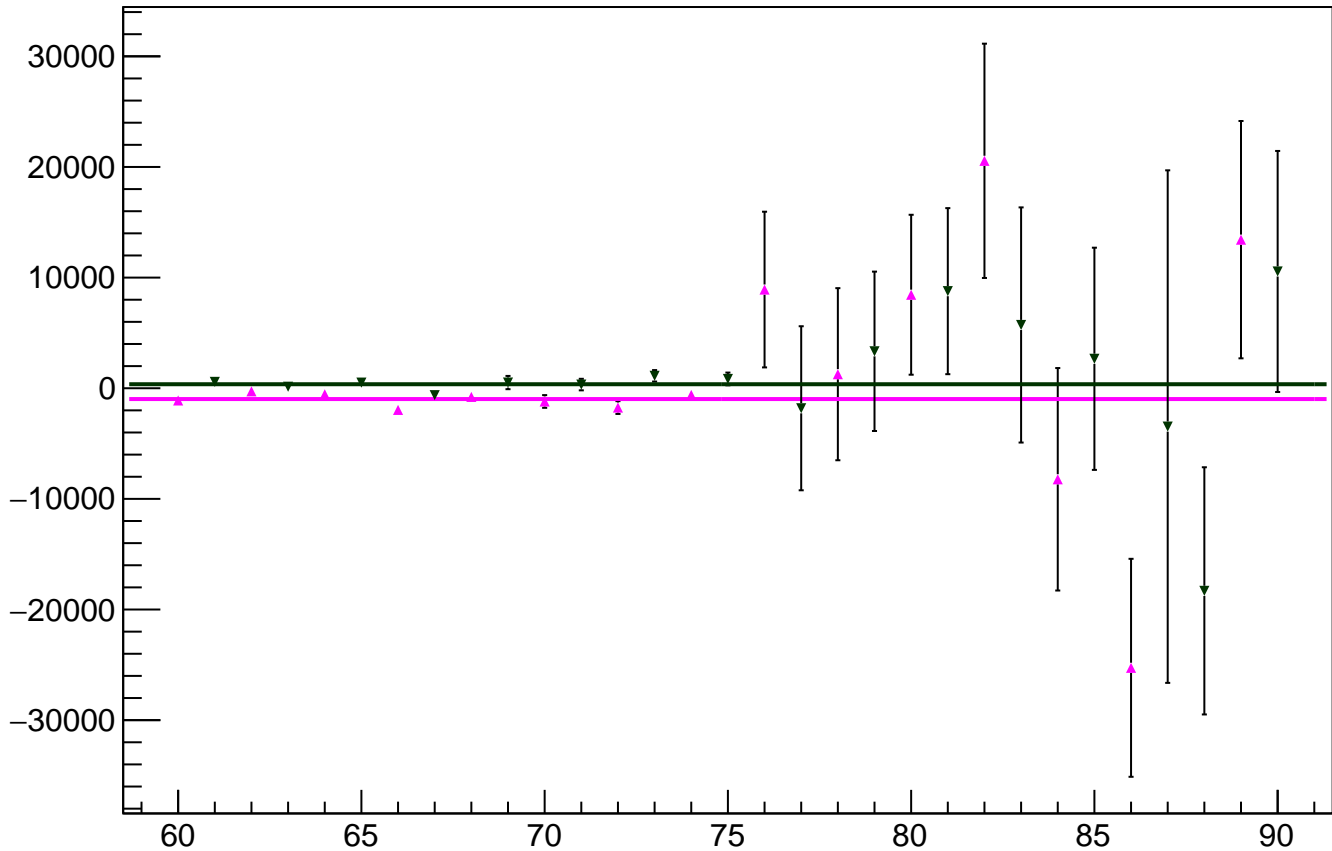
1319.072+/-0.408  $\chi^2$ /NDF: 4668203.9/15

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

1272.686+/-0.393  $\chi^2$ /NDF: 4740767.8/14

Left In: 1272.686+/-0.393  $\chi^2$ /NDF:4740767.8/14

# reg\_asym\_at2\_avg\_mean vs slug



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

362.108+/-161.785  $\chi^2$ /NDF: 15.0/15

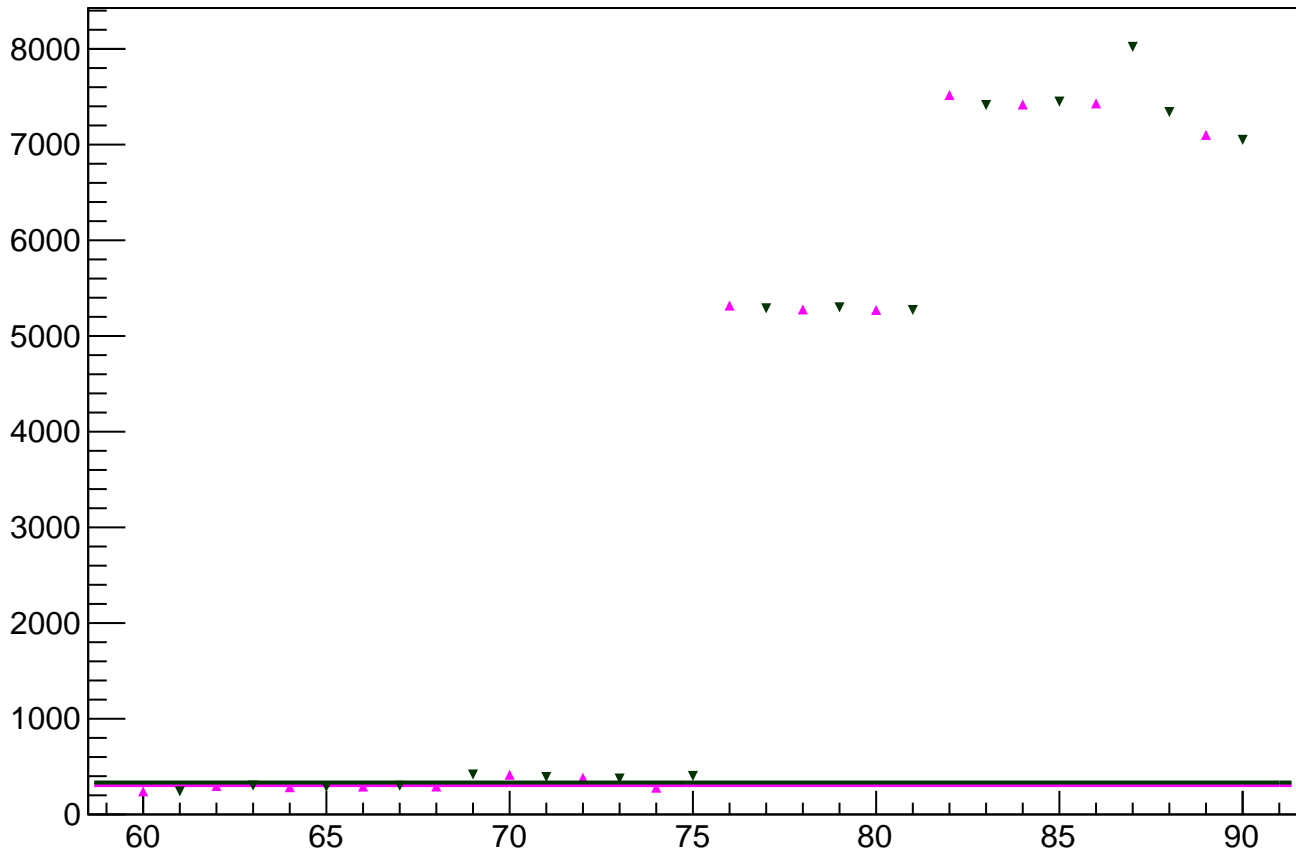
Left Out: 362.108+/-161.785  $\chi^2$ /NDF: 15.0/15

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

-977.538+/-148.744  $\chi^2$ /NDF: 29.3/14

Left In: -977.538+/-148.744  $\chi^2$ /NDF: 29.3/14

# reg\_asym\_at2\_avg\_rms vs slug



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

Left Out: 333.723+/-0.114  $\chi^2$ /NDF:6650454.9/15

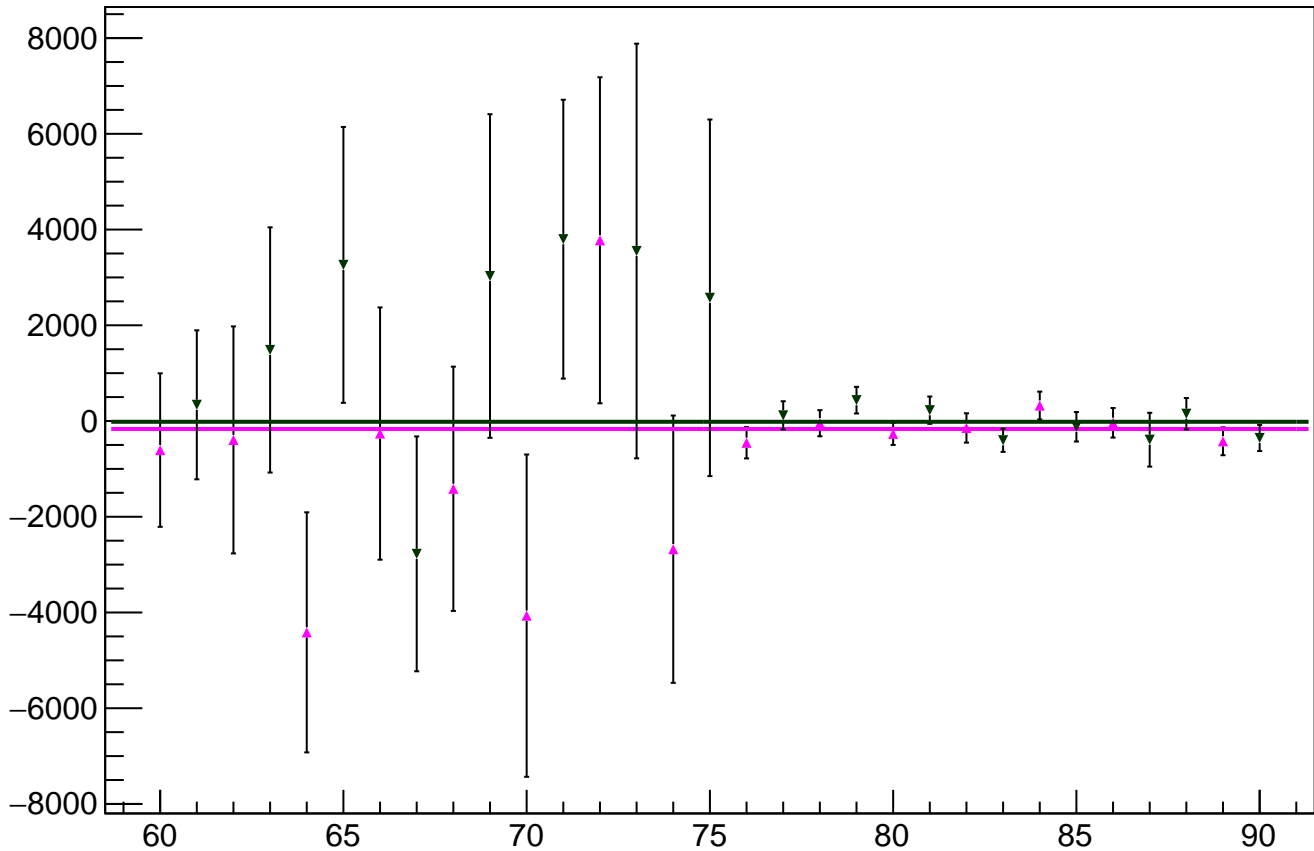
333.723+/-0.114  $\chi^2$ /NDF: 6650454.9/15

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

306.632+/-0.105  $\chi^2$ /NDF: 6759477.6/14

Left In: 306.632+/-0.105  $\chi^2$ /NDF:6759477.6/14

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



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

Left Out: -15.941+/-104.677  $\chi^2/\text{NDF}$ : 15.1/15

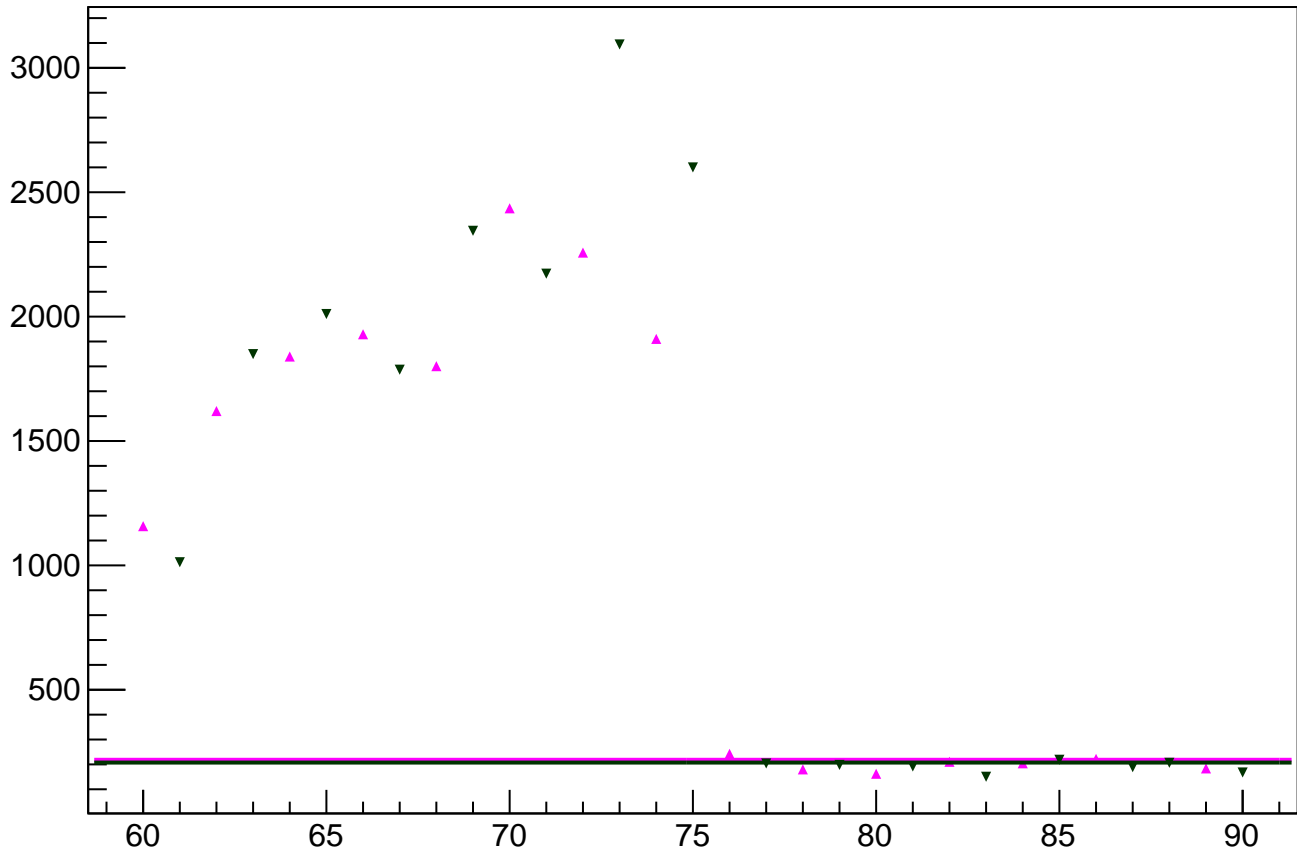
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -166.342+/-107.035  $\chi^2/\text{NDF}$ : 11.6/14

-15.941+/-104.677  $\chi^2/\text{NDF}$ : 15.1/15

-166.342+/-107.035  $\chi^2/\text{NDF}$ : 11.6/14

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



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

Left Out: 207.377+/-0.074  $\chi^2/\text{NDF}$ : 6558675.2/15

207.377+/-0.074  $\chi^2/\text{NDF}$ : 6558675.2/15

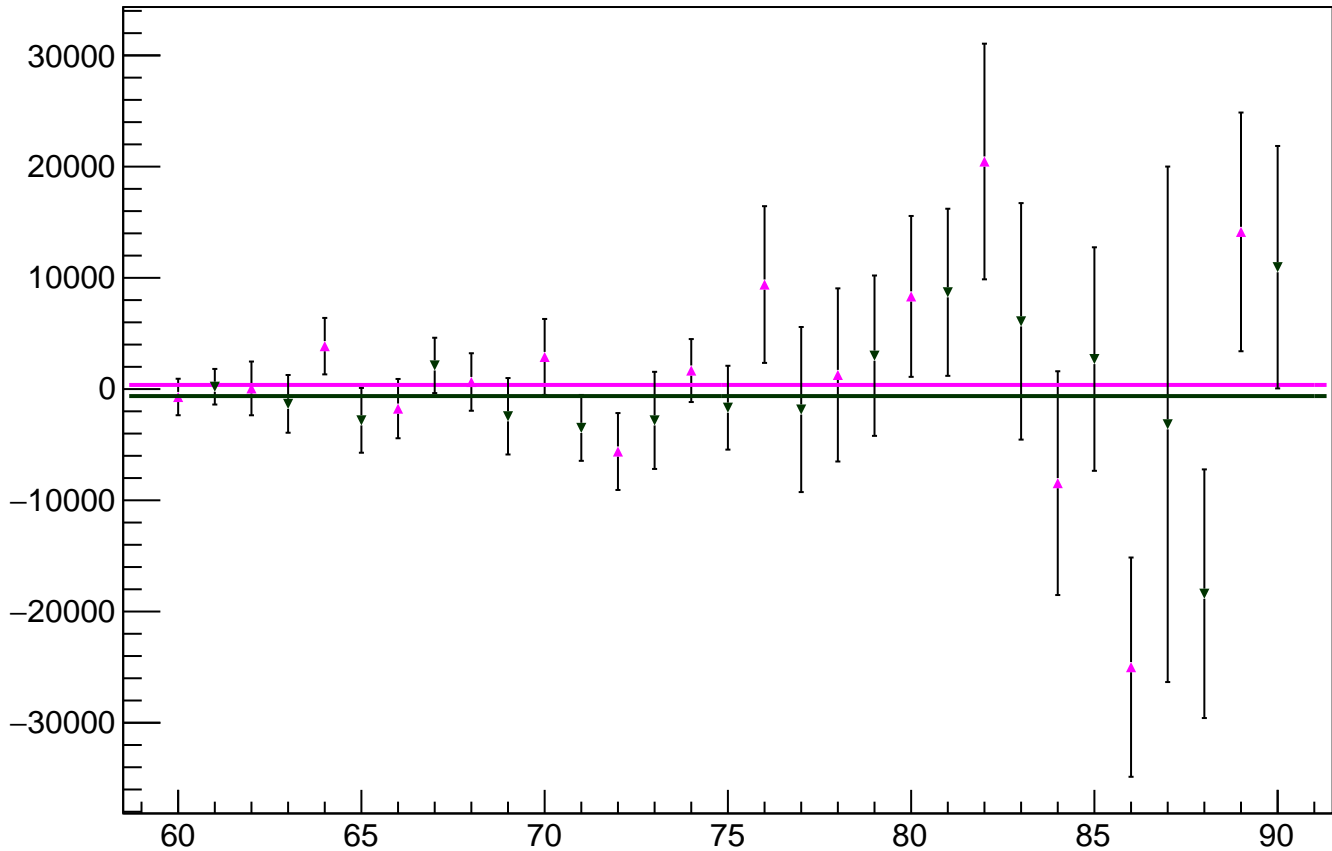
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

218.534+/-0.076  $\chi^2/\text{NDF}$ : 6352353.9/14

Left In: 218.534+/-0.076  $\chi^2/\text{NDF}$ : 6352353.9/14



# asym\_at2\_avg\_mean vs slug



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

-629.376+/-900.954  $\chi^2$ /NDF: 9.7/15

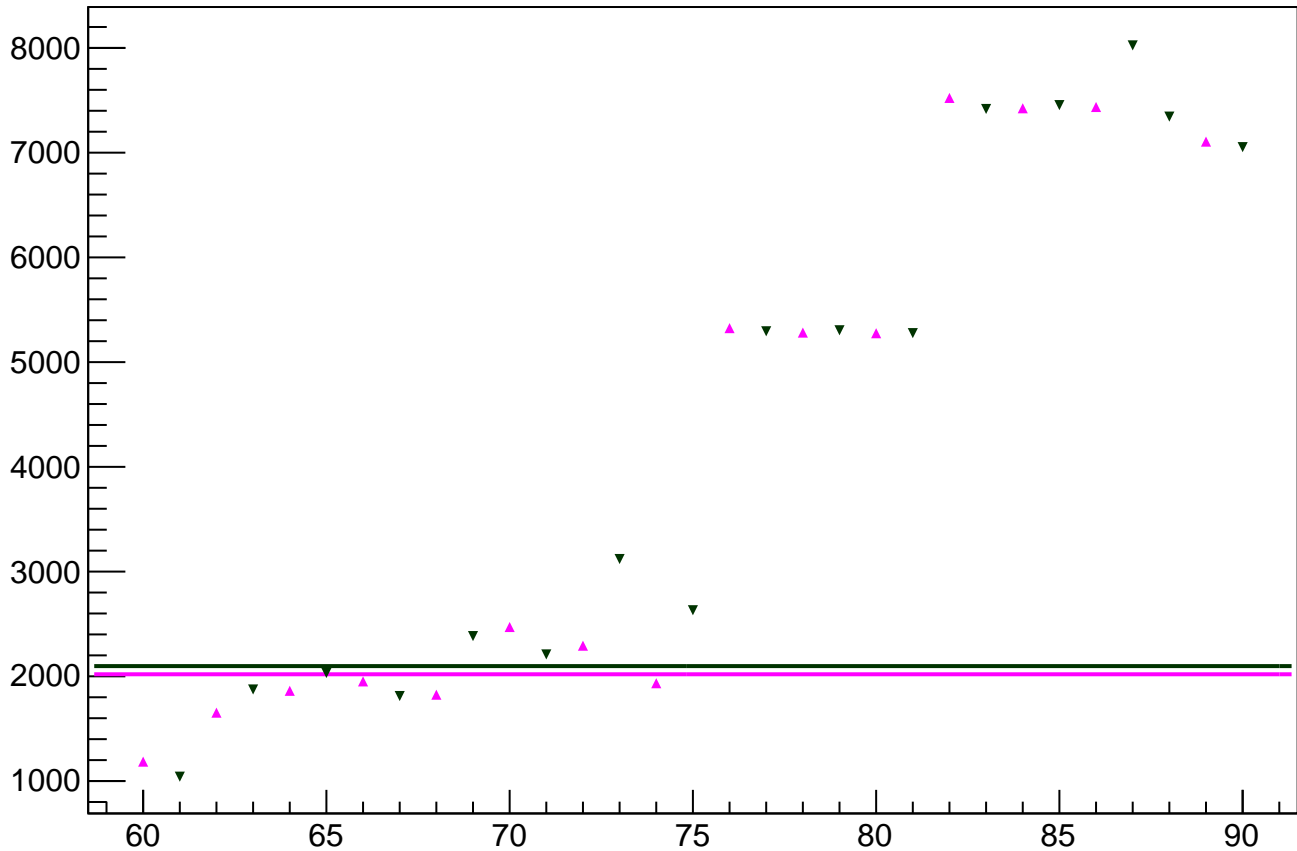
Left Out: -629.376+/-900.954  $\chi^2$ /NDF:9.7/15

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

372.628+/-852.428  $\chi^2$ /NDF: 22.2/14

Left In: 372.628+/-852.428  $\chi^2$ /NDF:22.2/14

# asym\_at2\_avg\_rms vs slug



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

2097.580+/-0.637  $\chi^2$ /NDF: 4257748.6/15

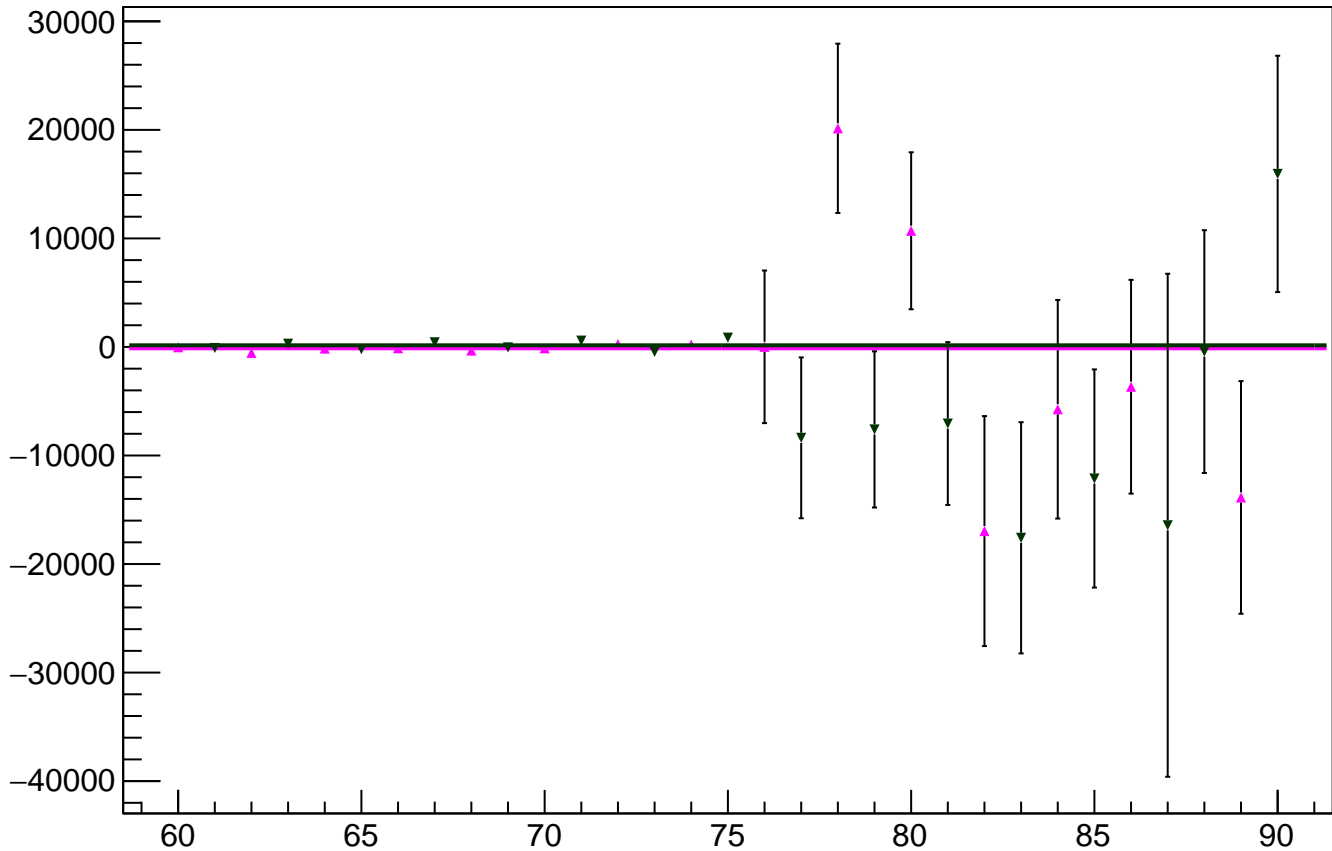
Left Out: 2097.580+/-0.637  $\chi^2$ /NDF: 4257748.6/15

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

2019.509+/-0.603  $\chi^2$ /NDF: 3999772.1/14

Left In: 2019.509+/-0.603  $\chi^2$ /NDF: 3999772.1/14

# reg\_asym\_at2\_dd\_mean vs slug



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

150.654+/-120.834  $\chi^2/\text{NDF}$ : 20.5/15

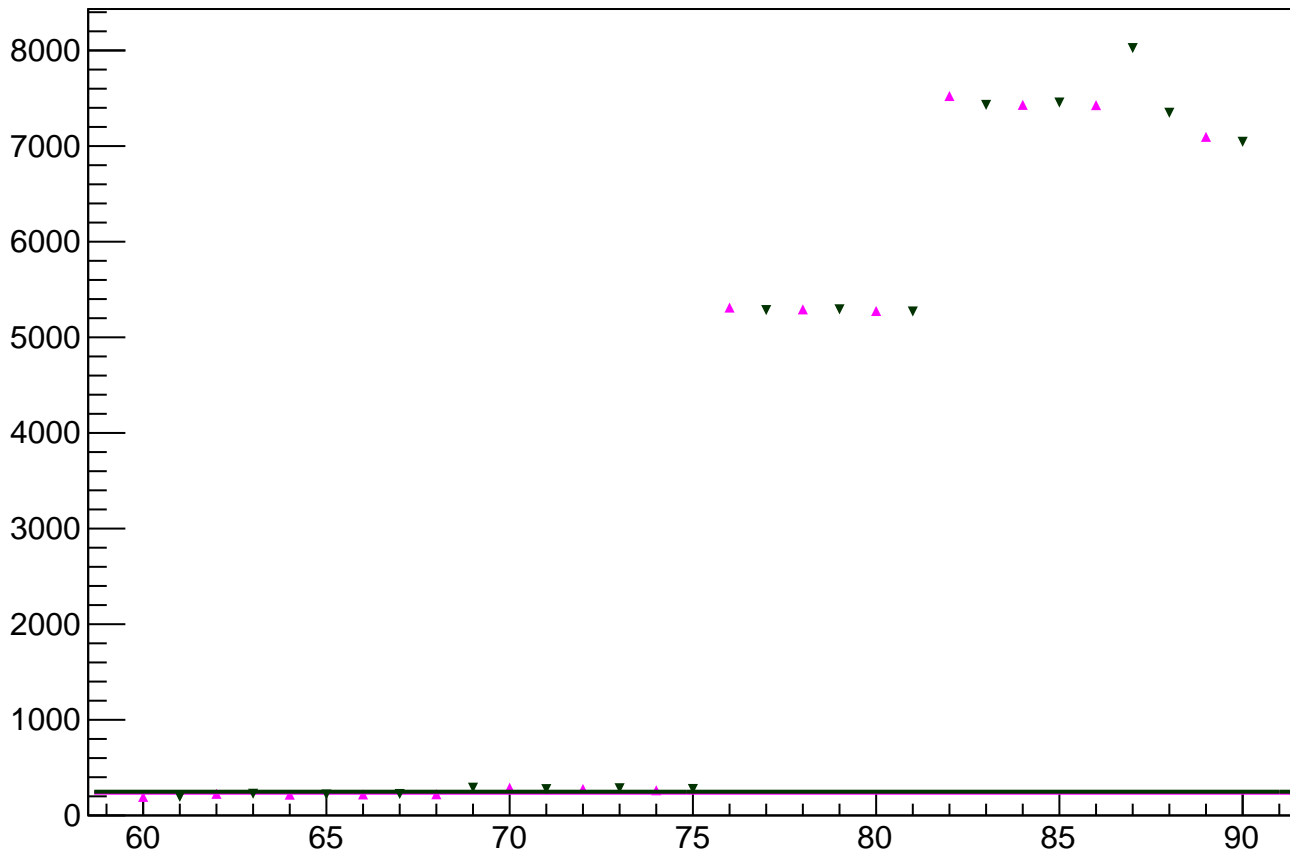
Left Out: 150.654+/-120.834  $\chi^2/\text{NDF}$ : 20.5/15

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

-123.958+/-115.083  $\chi^2/\text{NDF}$ : 17.5/14

Left In: -123.958+/-115.083  $\chi^2/\text{NDF}$ : 17.5/14

# reg\_asym\_at2\_dd\_rms vs slug



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

Left Out: 248.315+/-0.085  $\chi^2/\text{NDF}$ : 6716905.2/15

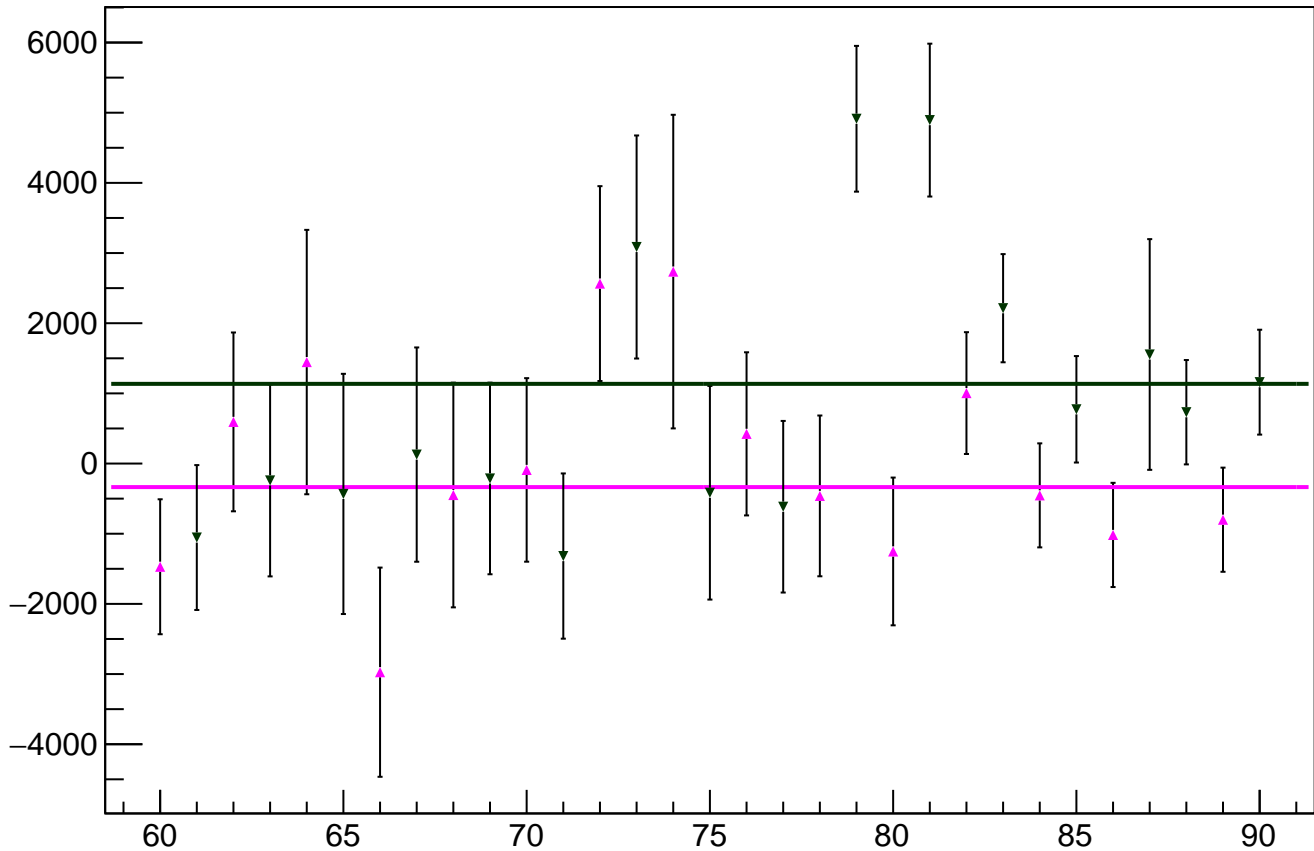
248.315+/-0.085  $\chi^2/\text{NDF}$ : 6716905.2/15

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

237.493+/-0.081  $\chi^2/\text{NDF}$ : 6843734.7/14

Left In: 237.493+/-0.081  $\chi^2/\text{NDF}$ : 6843734.7/14

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



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

1135.819+/-265.784  $\chi^2$ /NDF: 44.4/15

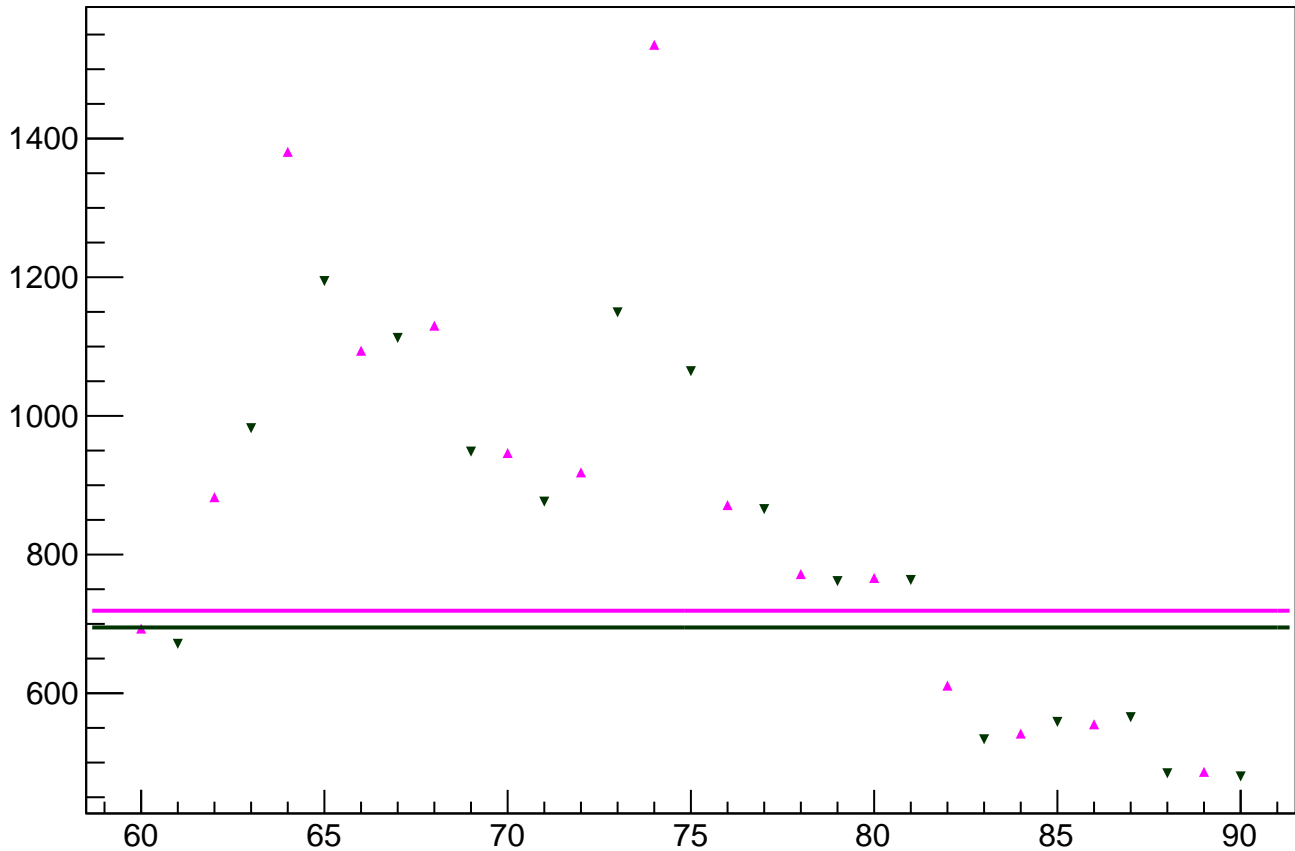
Left Out: 1135.819+/-265.784  $\chi^2$ /NDF:44.4/15

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

-335.519+/-274.166  $\chi^2$ /NDF: 17.1/14

Left In: -335.519+/-274.166  $\chi^2$ /NDF:17.1/14

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



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

Left Out: 694.868+/-0.188  $\chi^2/\text{NDF}$ : 1352052.5/15

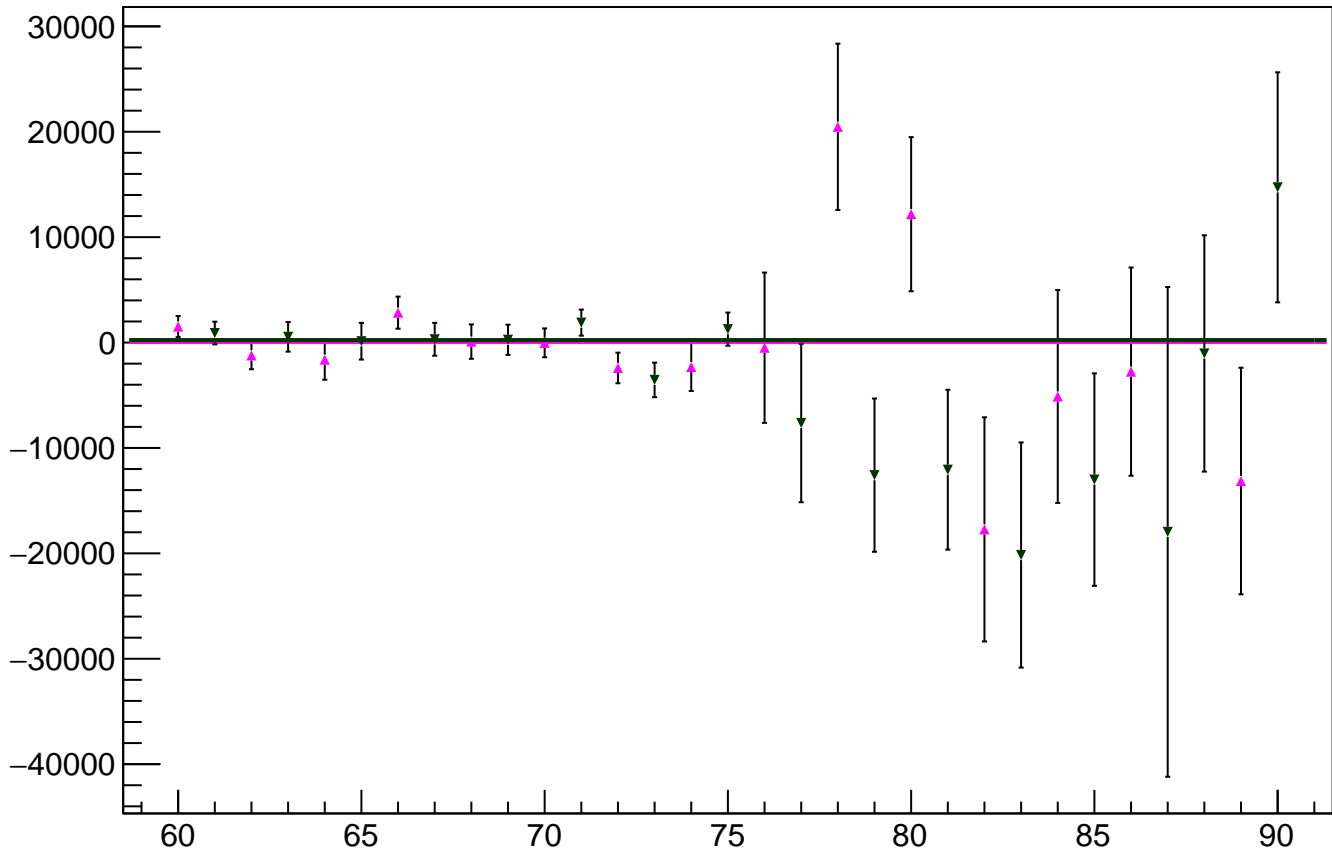
694.868+/-0.188  $\chi^2/\text{NDF}$ : 1352052.5/15

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

718.995+/-0.194  $\chi^2/\text{NDF}$ : 1389657.4/14

Left In: 718.995+/-0.194  $\chi^2/\text{NDF}$ : 1389657.4/14

# asym\_at2\_dd\_mean vs slug



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

Left Out: 237.822+/-492.211  $\chi^2$ /NDF:22.6/15

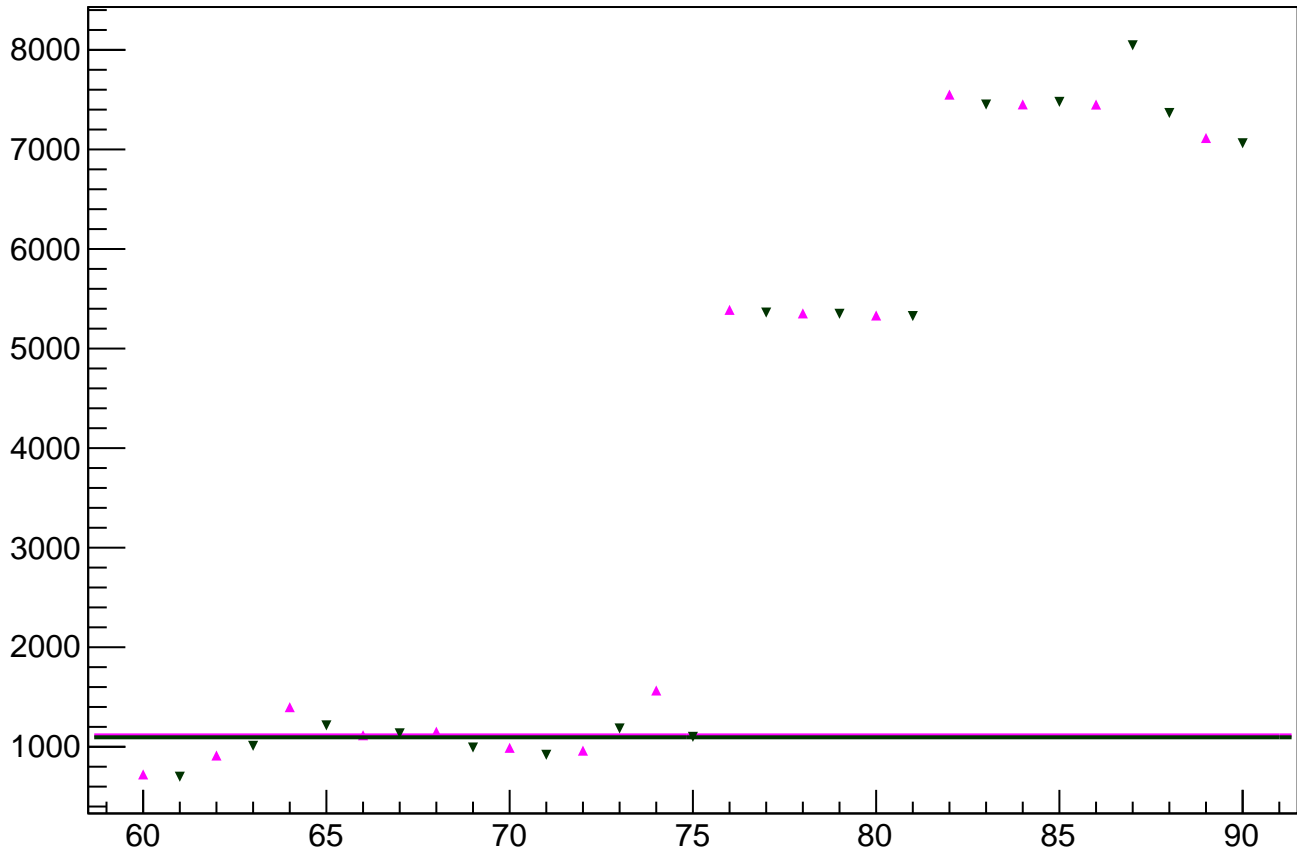
237.822+/-492.211  $\chi^2$ /NDF: 22.6/15

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

56.438+/-503.025  $\chi^2$ /NDF: 25.3/14

Left In: 56.438+/-503.025  $\chi^2$ /NDF:25.3/14

# asym\_at2\_dd\_rms vs slug



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

Left Out: 1095.395+/-0.348  $\chi^2$ /NDF:5210508.1/15

1095.395+/-0.348  $\chi^2$ /NDF: 5210508.1/15

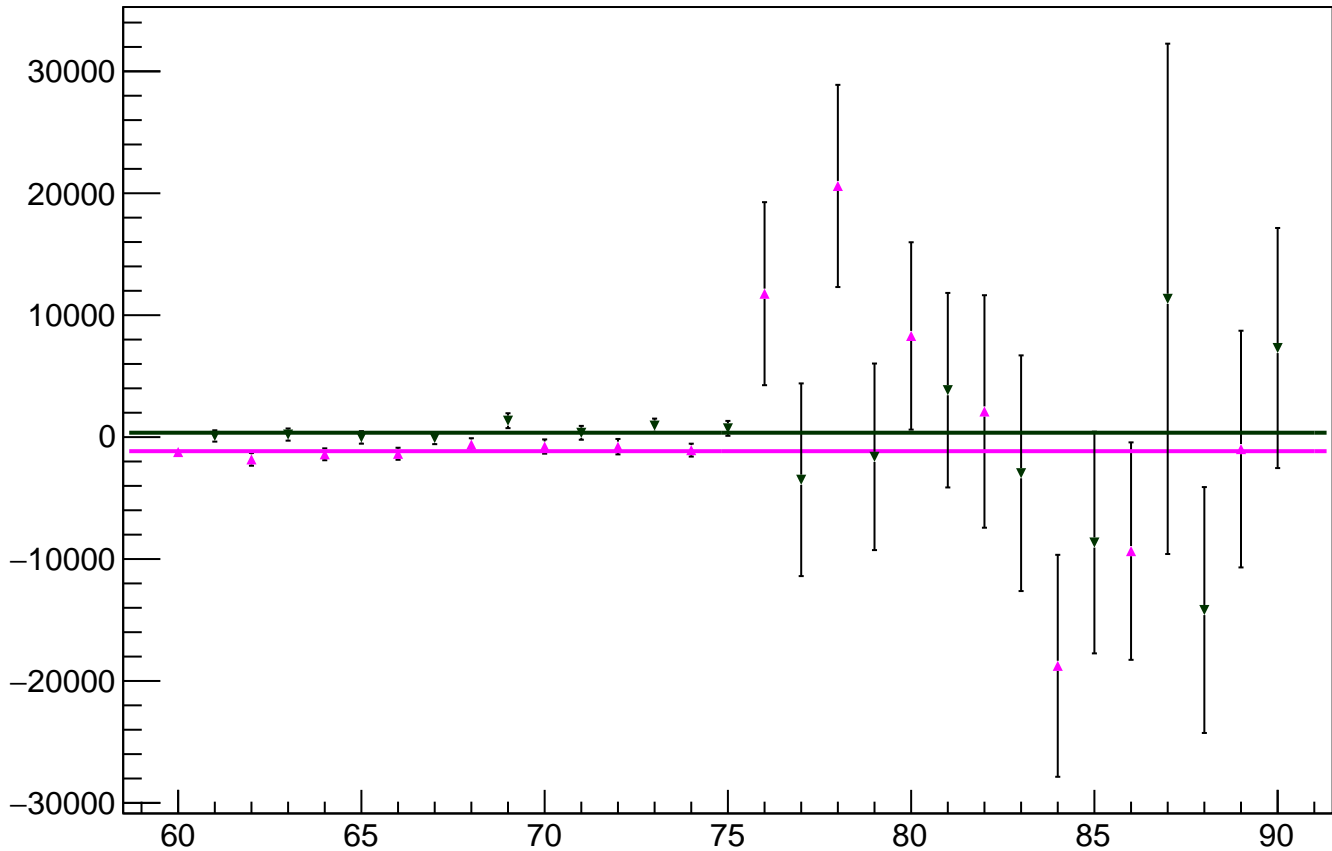
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1114.564+/-0.356  $\chi^2$ /NDF: 5445722.6/14

Left In: 1114.564+/-0.356  $\chi^2$ /NDF:5445722.6/14



# reg\_asym\_atl1r2\_avg\_mean vs slug



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

360.934+/-188.832  $\chi^2/\text{NDF}$ : 10.2/15

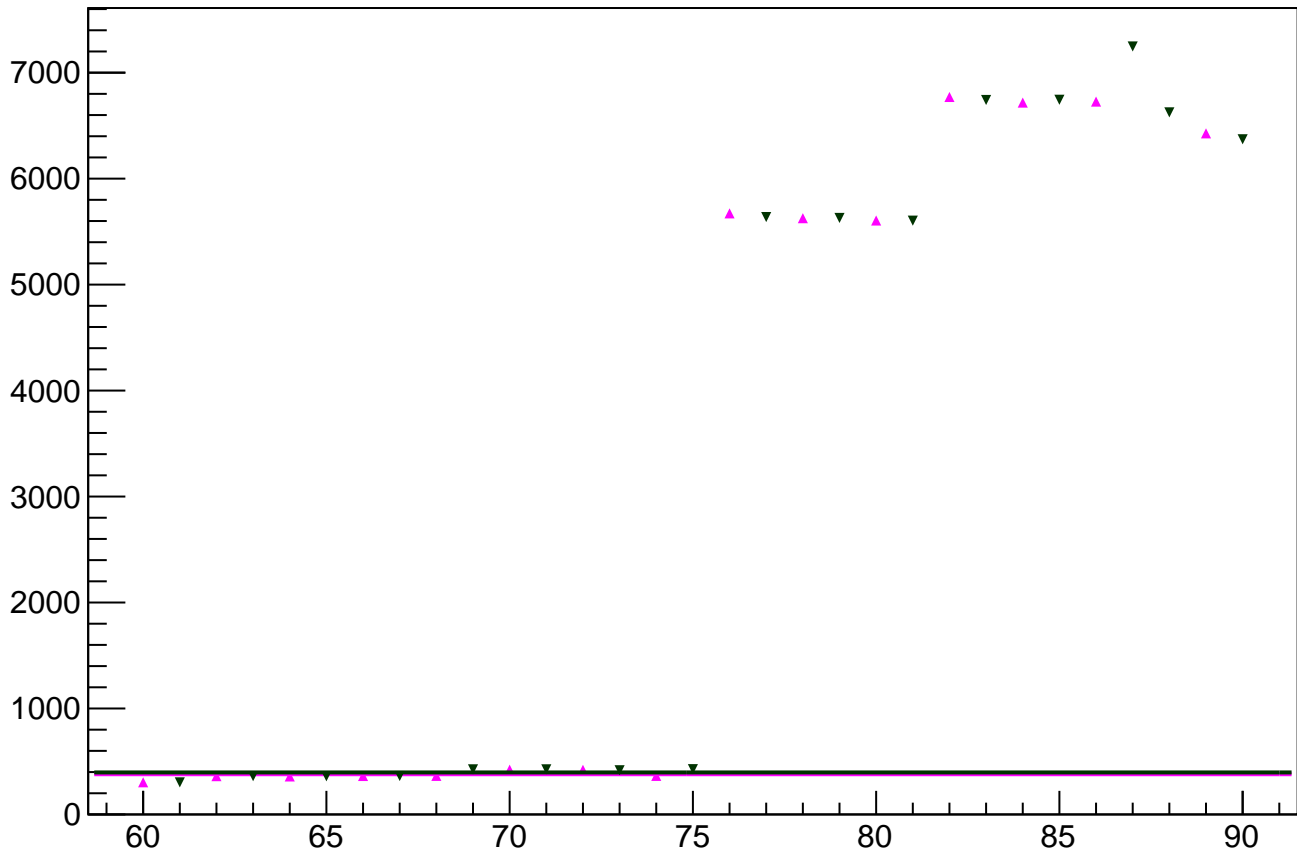
Left Out: 360.934+/-188.832  $\chi^2/\text{NDF}$ : 10.2/15

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

-1153.941+/-180.453  $\chi^2/\text{NDF}$ : 20.1/14

Left In: -1153.941+/-180.453  $\chi^2/\text{NDF}$ : 20.1/14

# reg\_asym\_atl1r2\_avg\_rms vs slug



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

Left Out: 396.496+/-0.134  $\chi^2/\text{NDF}$ :6347245.9/15

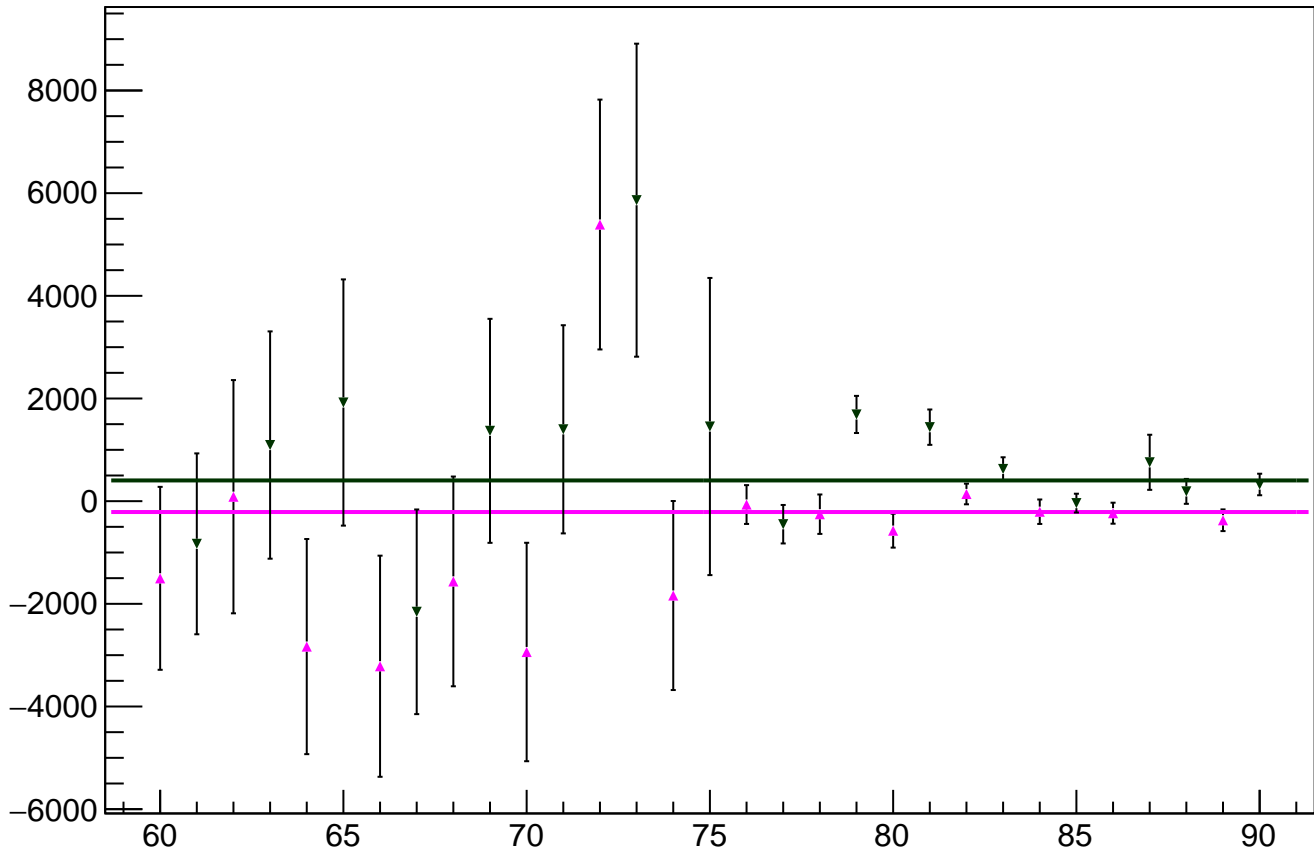
396.496+/-0.134  $\chi^2/\text{NDF}$ : 6347245.9/15

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

379.514+/-0.128  $\chi^2/\text{NDF}$ : 6477799.3/14

Left In: 379.514+/-0.128  $\chi^2/\text{NDF}$ :6477799.3/14

# asym\_atl1r2\_avg\_correction\_mean vs slug



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

403.772+/-92.406  $\chi^2/\text{NDF}$ : 41.4/15

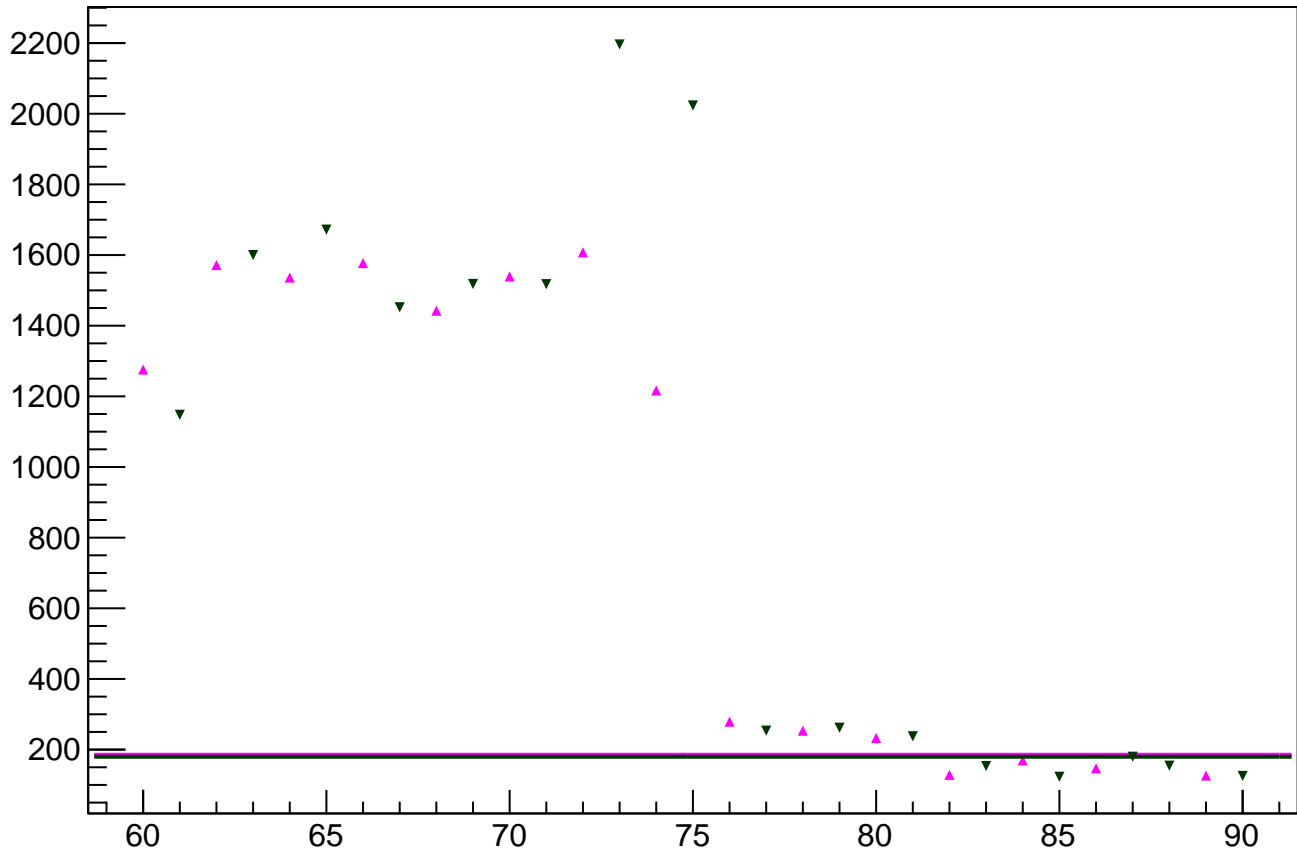
Left Out: 403.772+/-92.406  $\chi^2/\text{NDF}$ : 41.4/15

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

-211.522+/-93.898  $\chi^2/\text{NDF}$ : 17.2/14

Left In: -211.522+/-93.898  $\chi^2/\text{NDF}$ : 17.2/14

# asym\_atl1r2\_avg\_correction\_rms vs slug



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

Left Out: 179.878+/-0.065  $\chi^2$ /NDF:6936100.9/15

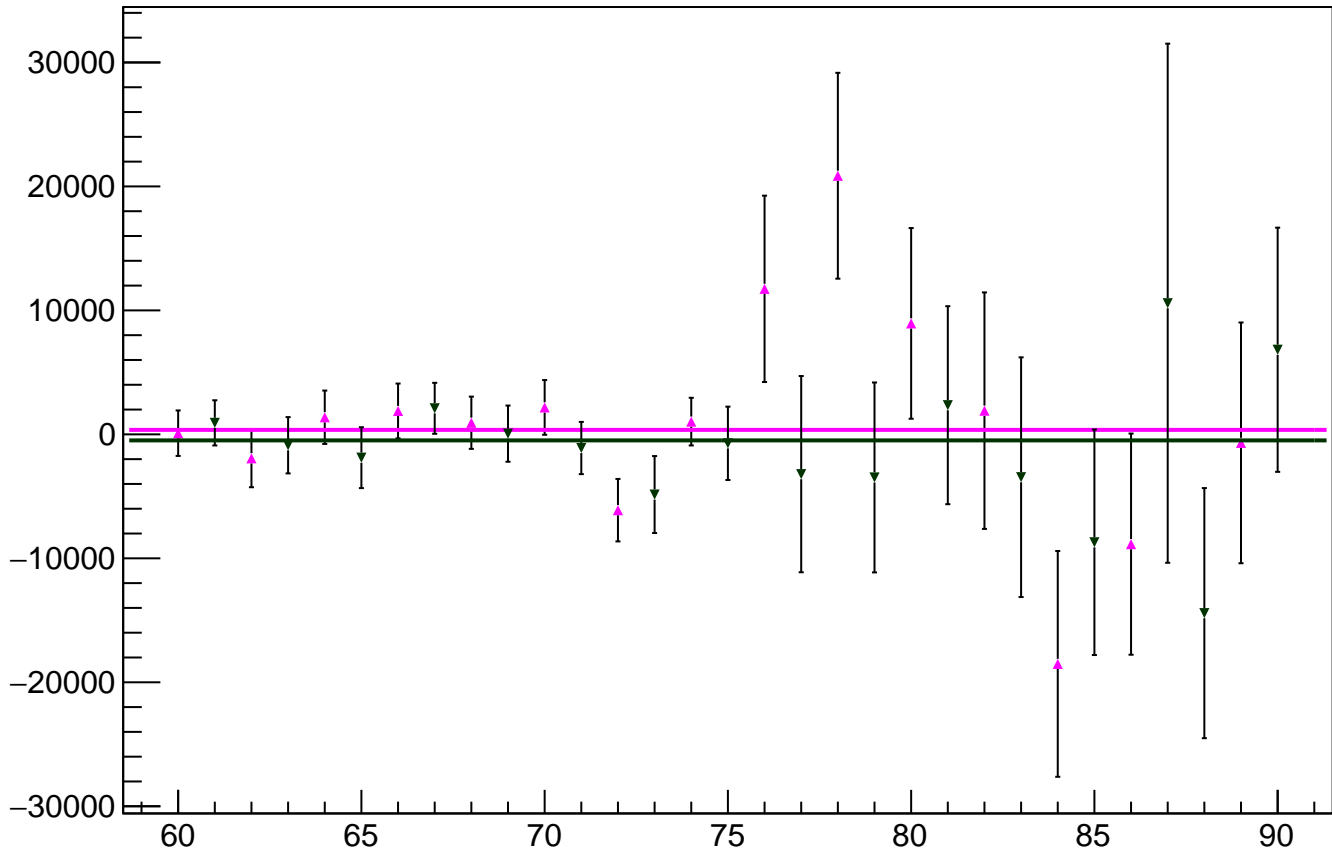
179.878+/-0.065  $\chi^2$ /NDF: 6936100.9/15

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

Left In: 185.438+/-0.066  $\chi^2$ /NDF:6659708.7/14

185.438+/-0.066  $\chi^2$ /NDF: 6659708.7/14

# asym\_atl1r2\_avg\_mean vs slug



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

-486.332+/-783.337  $\chi^2$ /NDF: 8.7/15

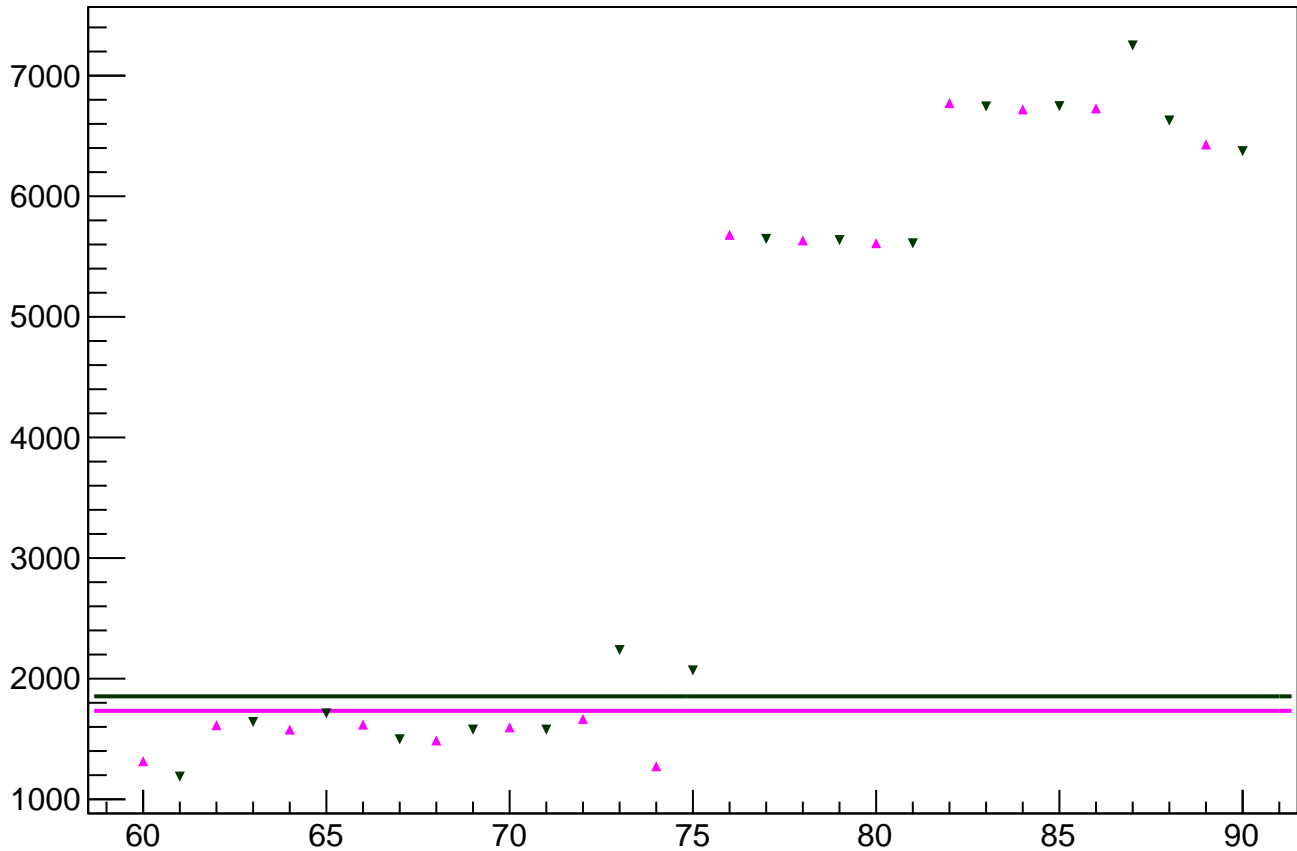
Left Out: -486.332+/-783.337  $\chi^2$ /NDF:8.7/15

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

360.807+/-734.204  $\chi^2$ /NDF: 24.2/14

Left In: 360.807+/-734.204  $\chi^2$ /NDF:24.2/14

# asym\_atl1r2\_avg\_rms vs slug



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

1853.467+/-0.554  $\chi^2$ /NDF: 3938773.5/15

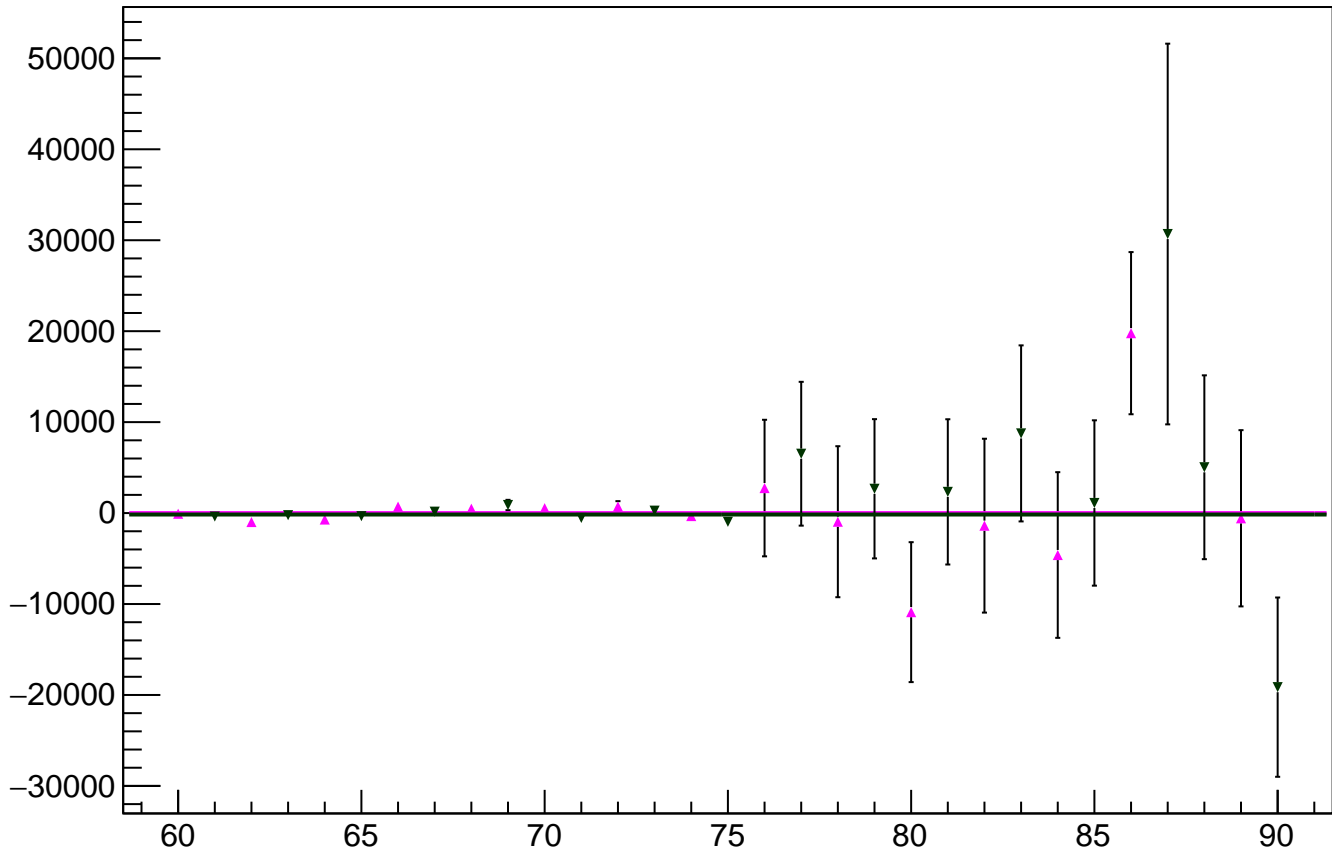
Left Out: 1853.467+/-0.554  $\chi^2$ /NDF: 3938773.5/15

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

1733.088+/-0.519  $\chi^2$ /NDF: 4029369.8/14

Left In: 1733.088+/-0.519  $\chi^2$ /NDF: 4029369.8/14

# reg\_asym\_atl1r2\_dd\_mean vs slug



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

-158.331+/-172.684  $\chi^2$ /NDF: 15.6/15

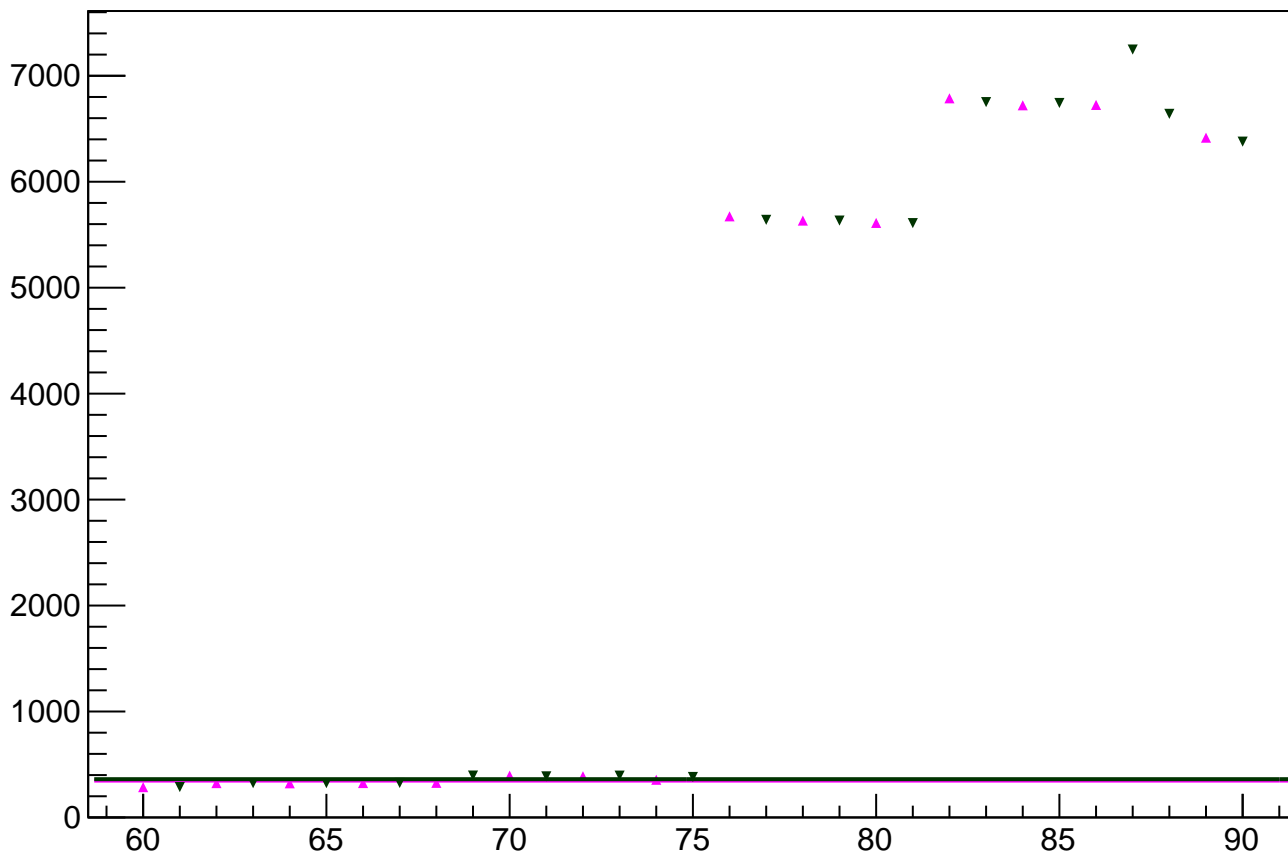
Left Out: -158.331+/-172.684  $\chi^2$ /NDF:15.6/15

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

-2.540+/-165.704  $\chi^2$ /NDF: 21.1/14

Left In: -2.540+/-165.704  $\chi^2$ /NDF:21.1/14

# reg\_asym\_atl1r2\_dd\_rms vs slug



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

Left Out: 361.160+/-0.122  $\chi^2$ /NDF:6416522.5/15

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

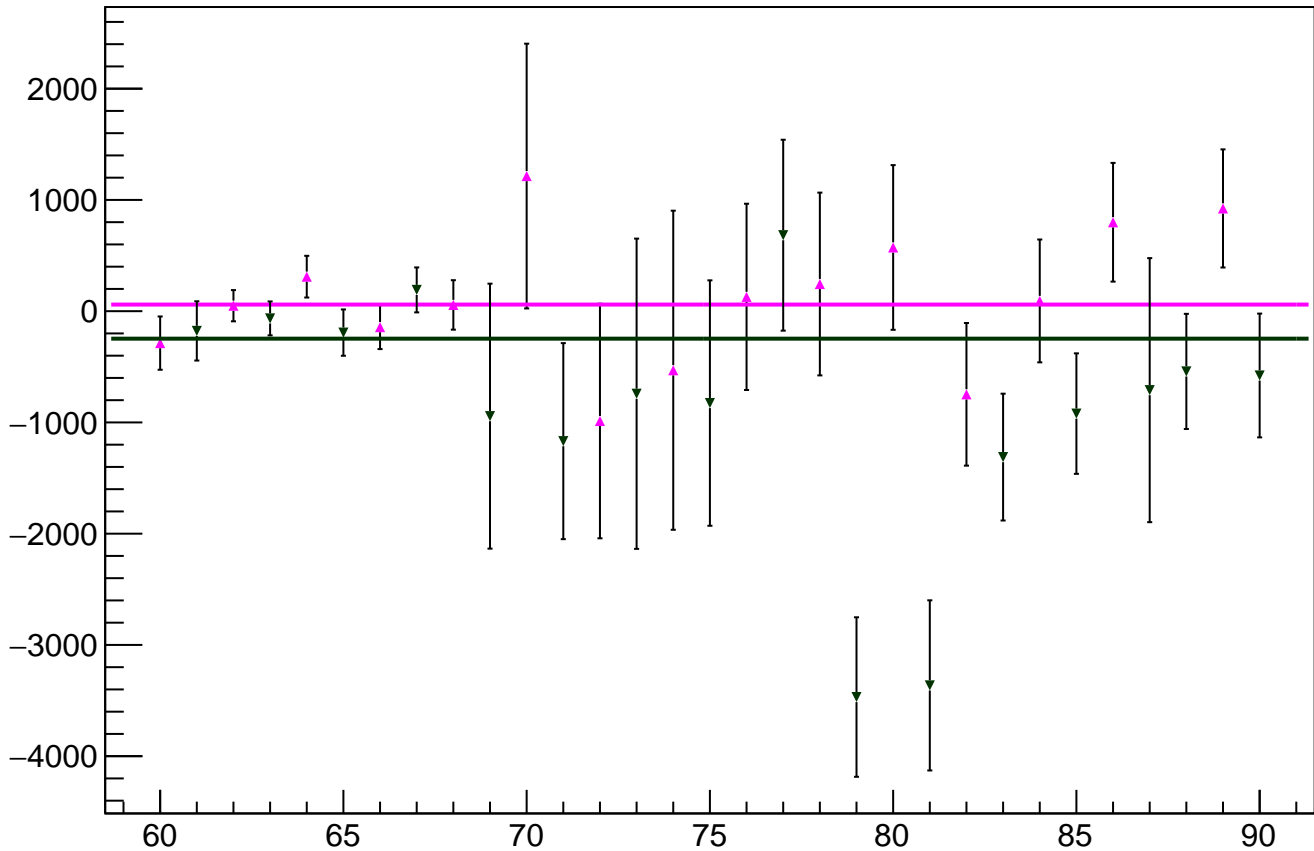
Left In: 347.752+/-0.117  $\chi^2$ /NDF:6546010.9/14

361.160+/-0.122  $\chi^2$ /NDF: 6416522.5/15

347.752+/-0.117  $\chi^2$ /NDF: 6546010.9/14



# asym\_atl1r2\_dd\_correction\_mean vs slug



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

-247.062+/-88.665  $\chi^2$ /NDF: 51.9/15

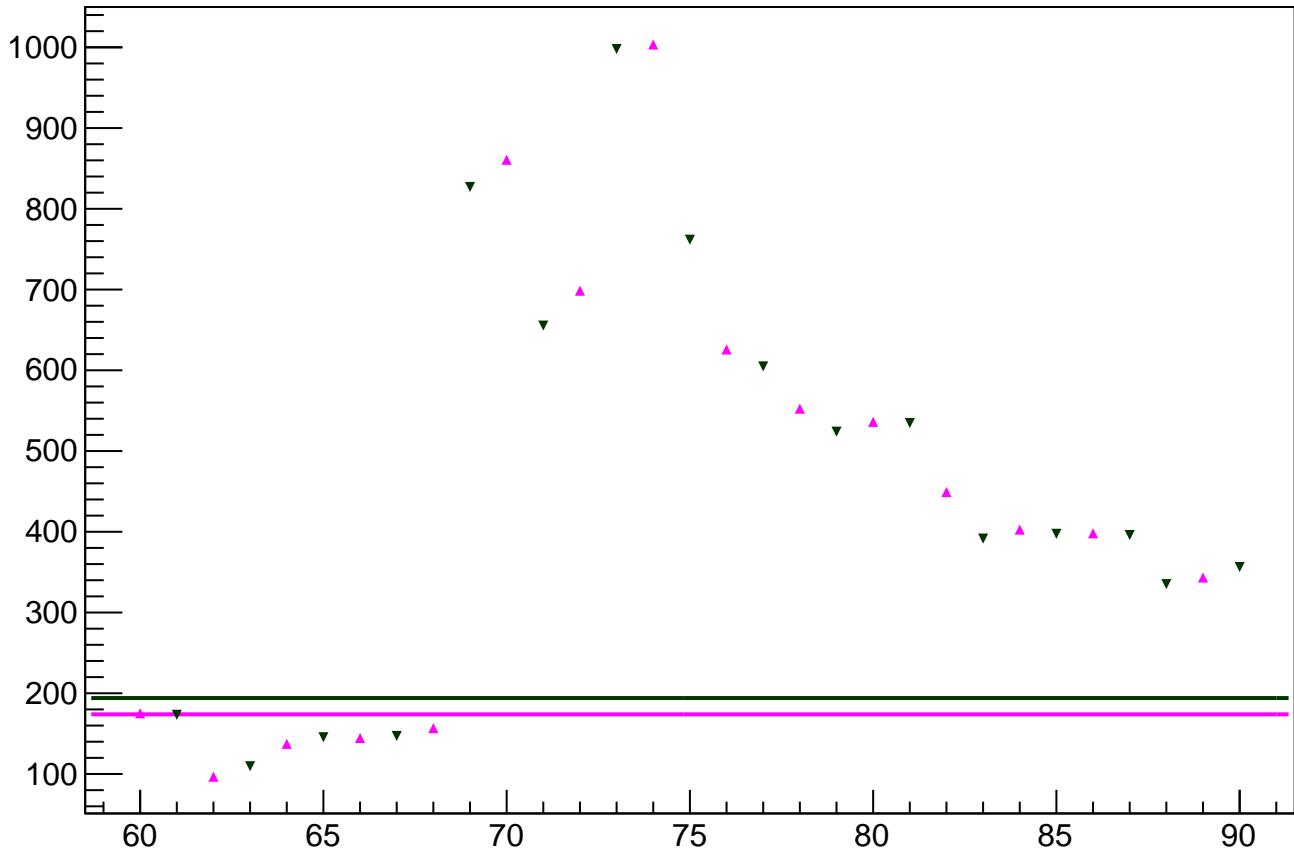
Left Out: -247.062+/-88.665  $\chi^2$ /NDF: 51.9/15

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

59.445+/-78.535  $\chi^2$ /NDF: 13.7/14

Left In: 59.445+/-78.535  $\chi^2$ /NDF: 13.7/14

# asym\_atl1r2\_dd\_correction\_rms vs slug



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

Left Out: 194.073+/-0.063  $\chi^2$ /NDF:5327407.3/15

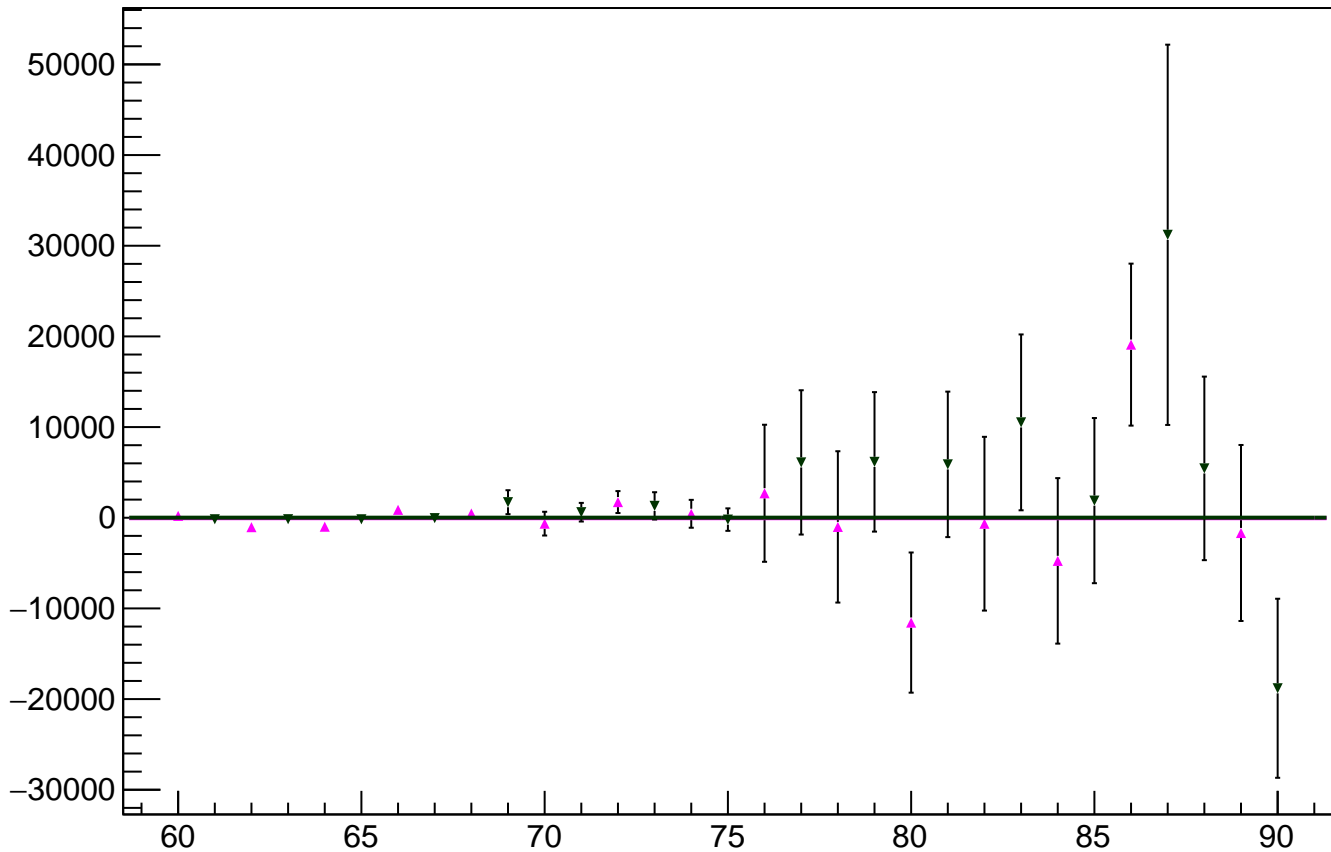
194.073+/-0.063  $\chi^2$ /NDF: 5327407.3/15

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

Left In: 173.921+/-0.056  $\chi^2$ /NDF:5324585.7/14

173.921+/-0.056  $\chi^2$ /NDF: 5324585.7/14

# asym\_atl1r2\_dd\_mean vs slug



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

Left Out: 7.923+/-229.543  $\chi^2$ /NDF:12.3/15

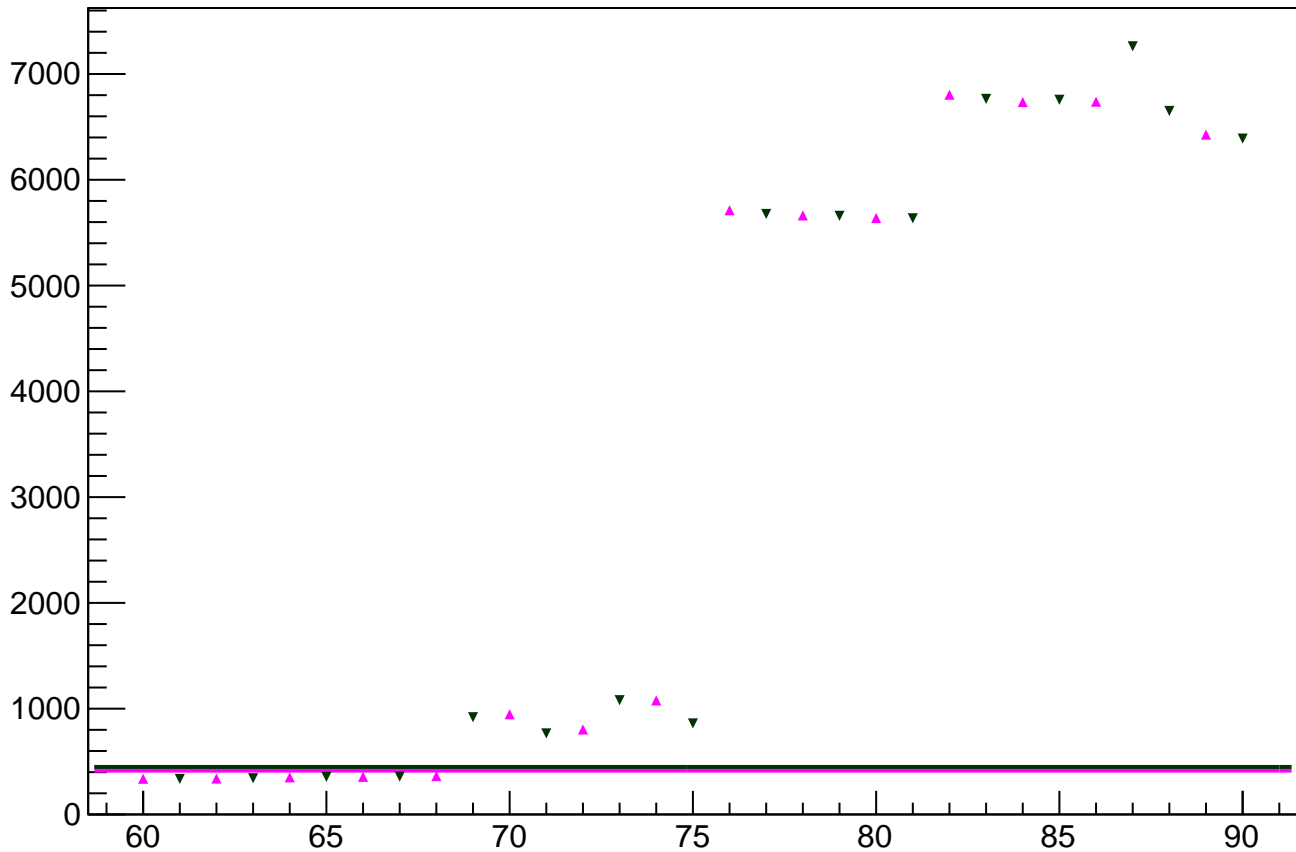
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -52.410+/-207.905  $\chi^2$ /NDF:22.6/14

7.923+/-229.543  $\chi^2$ /NDF: 12.3/15

-52.410+/-207.905  $\chi^2$ /NDF: 22.6/14

# asym\_atl1r2\_dd\_rms vs slug



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

Left Out: 449.110+/-0.162  $\chi^2$ /NDF:7461572.2/15

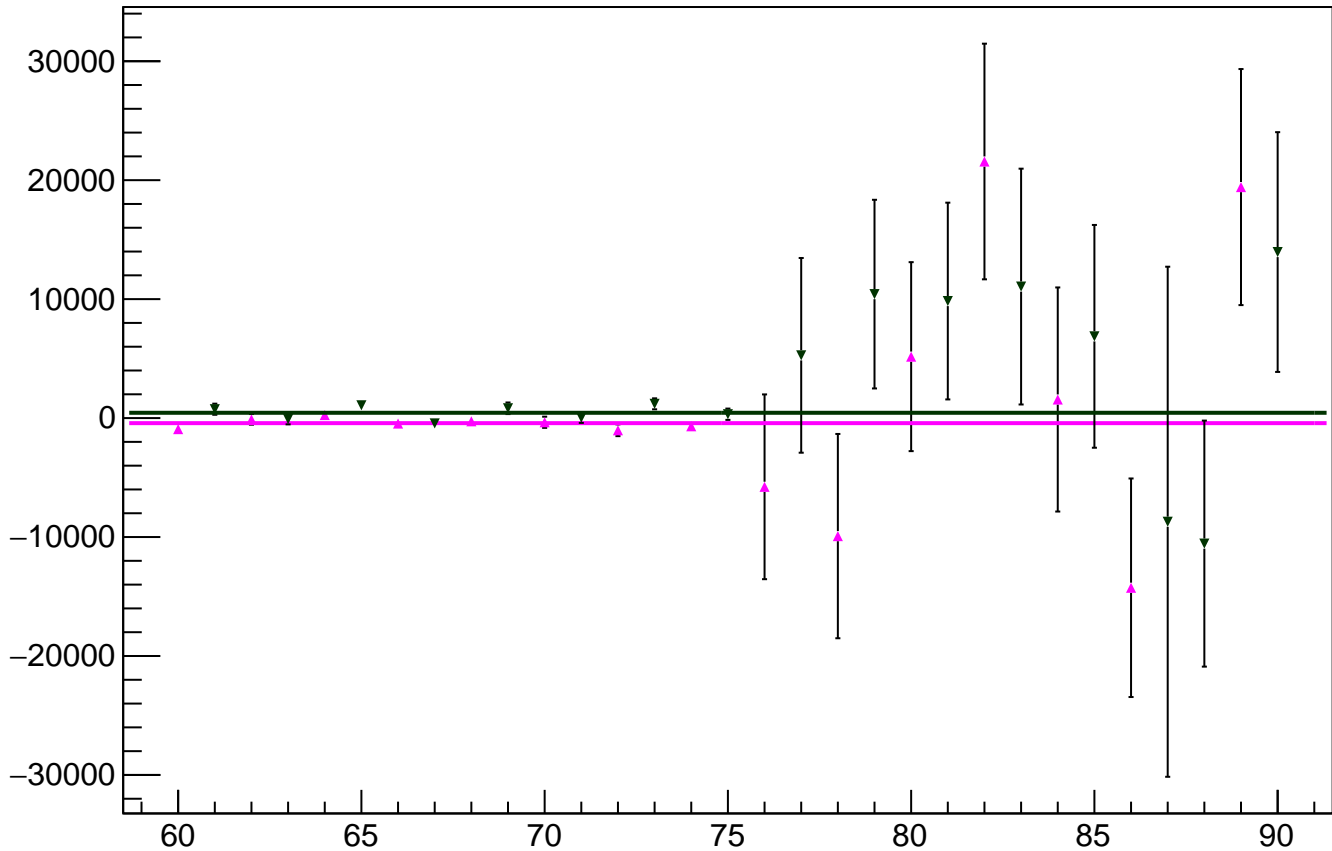
449.110+/-0.162  $\chi^2$ /NDF: 7461572.2/15

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

Left In: 414.527+/-0.147  $\chi^2$ /NDF:7404141.8/14

414.527+/-0.147  $\chi^2$ /NDF: 7404141.8/14

# reg\_asym\_atr1l2\_avg\_mean vs slug



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

Left Out: 445.877+/-158.824  $\chi^2/\text{NDF}$ :20.8/15

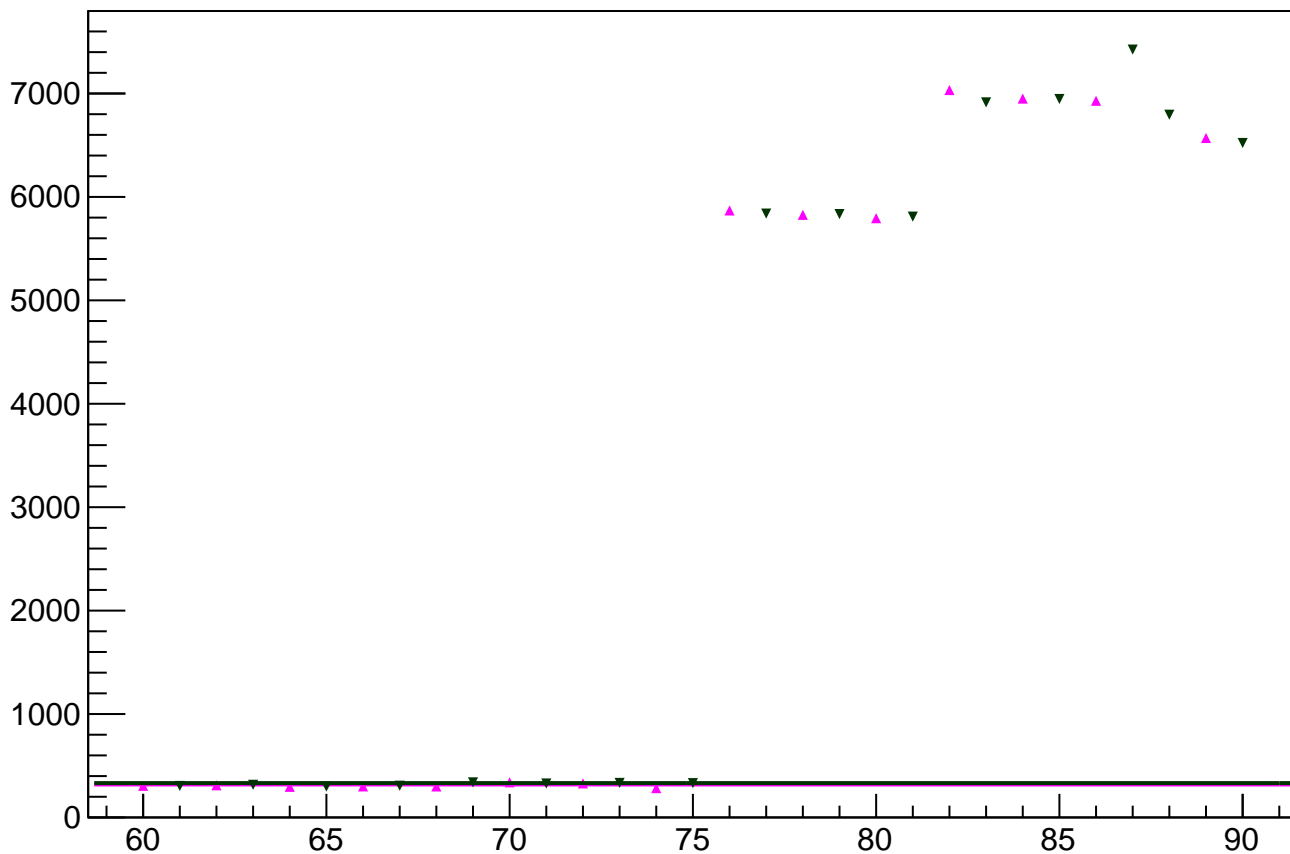
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -425.369+/-152.392  $\chi^2/\text{NDF}$ :20.3/14

445.877+/-158.824  $\chi^2/\text{NDF}$ : 20.8/15

-425.369+/-152.392  $\chi^2/\text{NDF}$ : 20.3/14

# reg\_asym\_atr1l2\_avg\_rms vs slug



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

Left Out: 332.217+/-0.112  $\chi^2$ /NDF:6410304.1/15

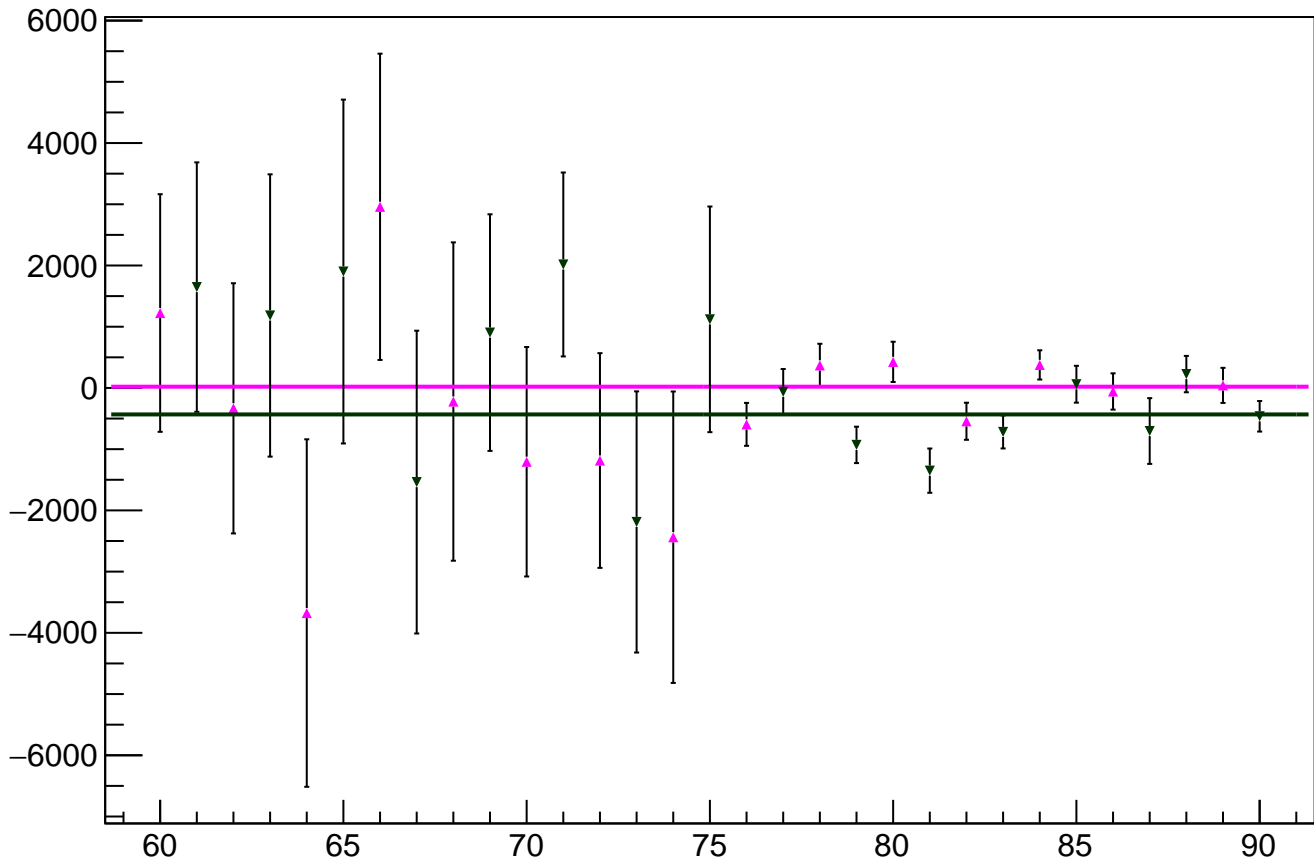
332.217+/-0.112  $\chi^2$ /NDF: 6410304.1/15

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

318.890+/-0.108  $\chi^2$ /NDF: 6571897.3/14

Left In: 318.890+/-0.108  $\chi^2$ /NDF:6571897.3/14

# asym\_atr1l2\_avg\_correction\_mean vs slug



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

Left Out: -432.673+/-109.312  $\chi^2$ /NDF:26.2/15

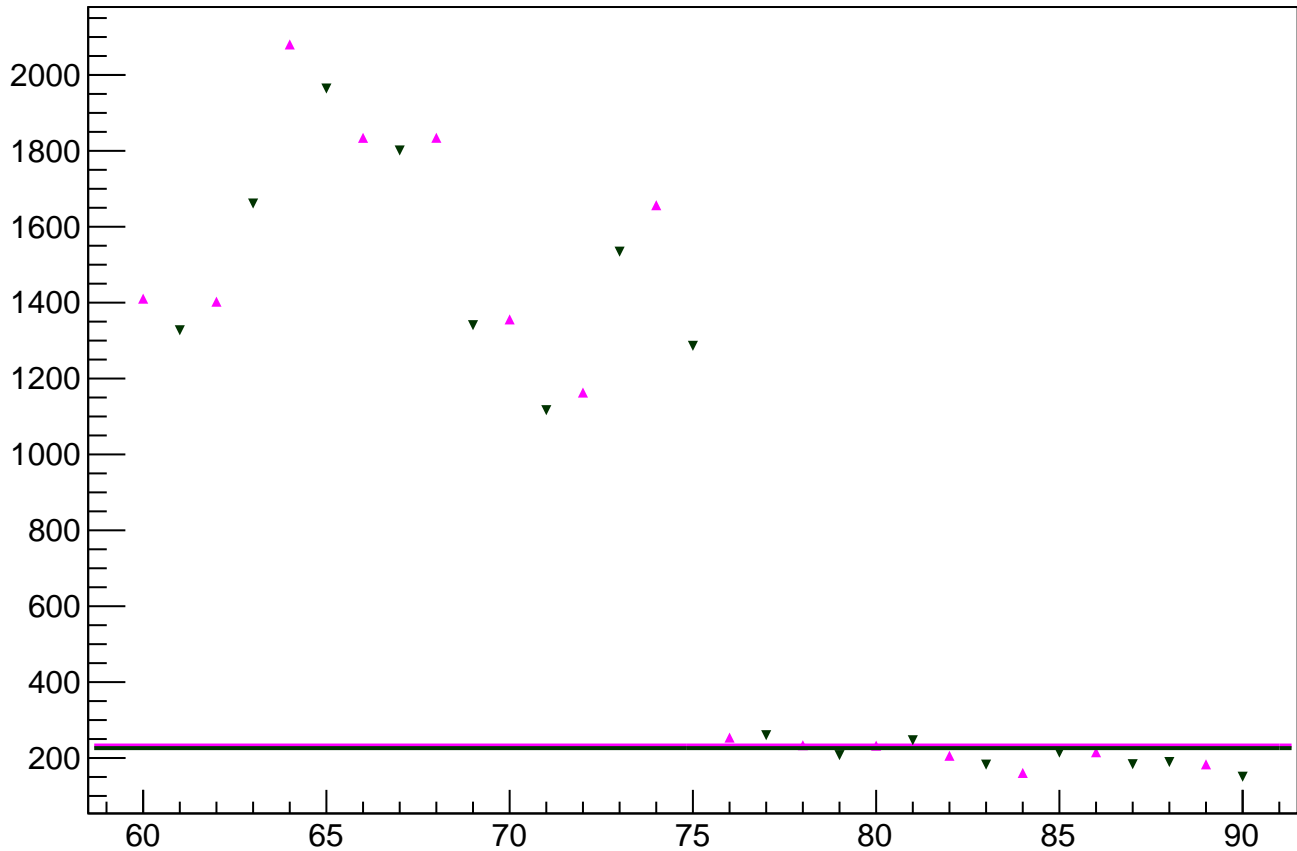
-432.673+/-109.312  $\chi^2$ /NDF: 26.2/15

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

20.529+/-112.413  $\chi^2$ /NDF: 16.8/14

Left In: 20.529+/-112.413  $\chi^2$ /NDF:16.8/14

# asym\_atr1l2\_avg\_correction\_rms vs slug



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

Left Out: 226.028+/-0.077  $\chi^2/\text{NDF}$ : 6030987.7/15

226.028+/-0.077  $\chi^2/\text{NDF}$ : 6030987.7/15

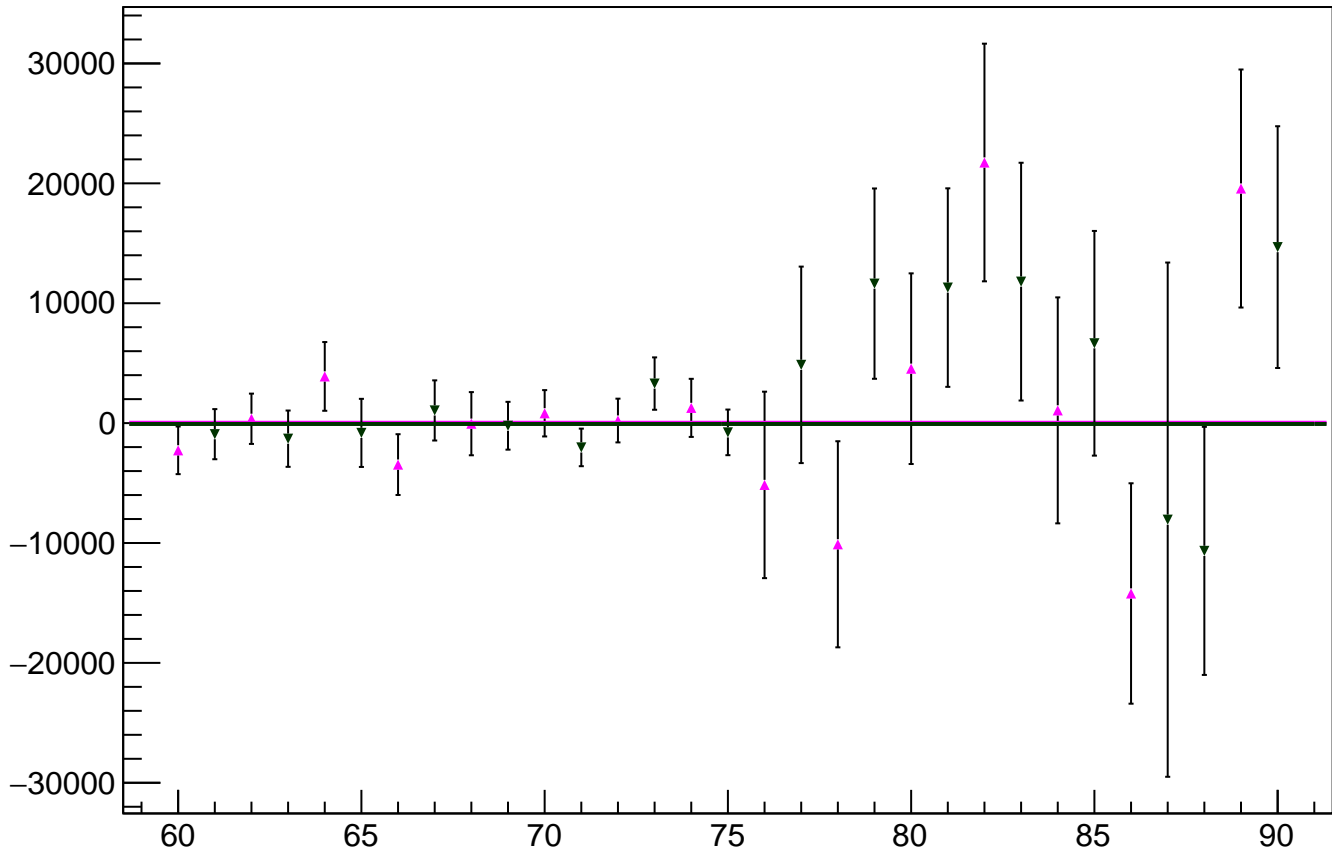
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

232.874+/-0.079  $\chi^2/\text{NDF}$ : 6087828.6/14

Left In: 232.874+/-0.079  $\chi^2/\text{NDF}$ : 6087828.6/14



# asym\_atr1l2\_avg\_mean vs slug



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

Left Out: -71.317+/-720.653  $\chi^2/\text{NDF}$ :14.5/15

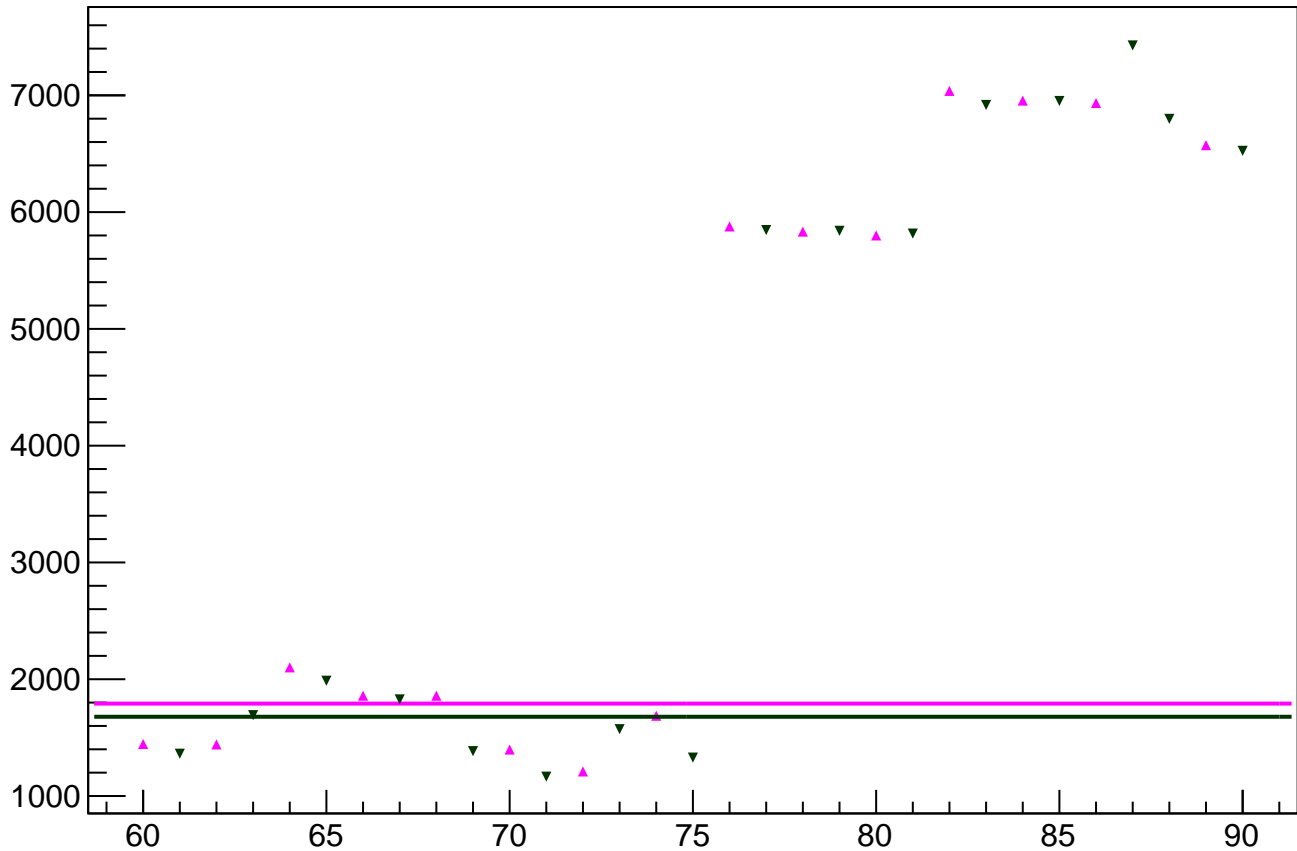
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 29.447+/-760.308  $\chi^2/\text{NDF}$ :18.8/14

-71.317+/-720.653  $\chi^2/\text{NDF}$ : 14.5/15

29.447+/-760.308  $\chi^2/\text{NDF}$ : 18.8/14

# asym\_atr1l2\_avg\_rms vs slug



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

Left Out: 1678.575+/-0.510  $\chi^2$ /NDF:4260086.8/15

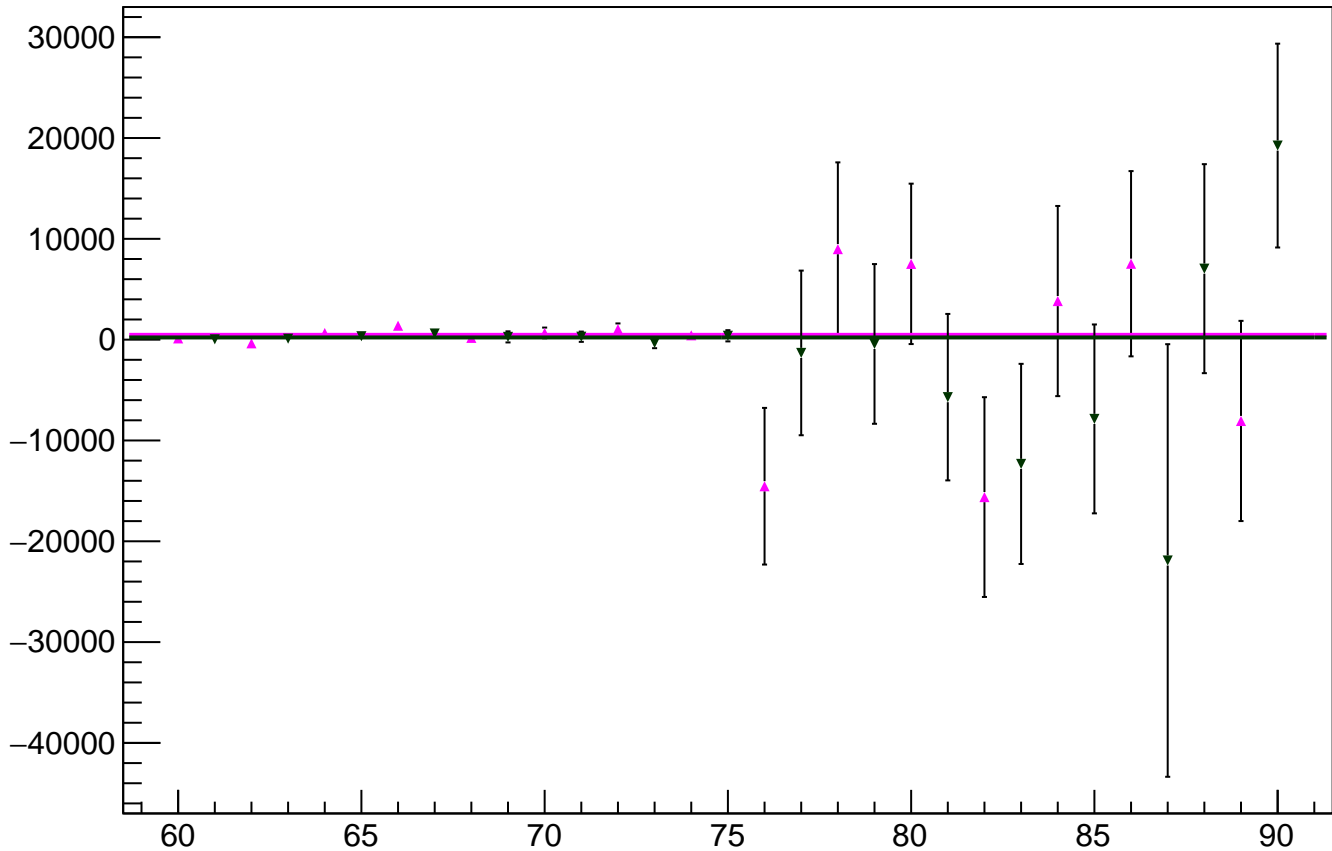
1678.575+/-0.510  $\chi^2$ /NDF: 4260086.8/15

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

1791.372+/-0.538  $\chi^2$ /NDF: 4185416.3/14

Left In: 1791.372+/-0.538  $\chi^2$ /NDF:4185416.3/14

# reg\_asym\_atr1l2\_dd\_mean vs slug



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

218.456+/-164.157  $\chi^2$ /NDF: 10.5/15

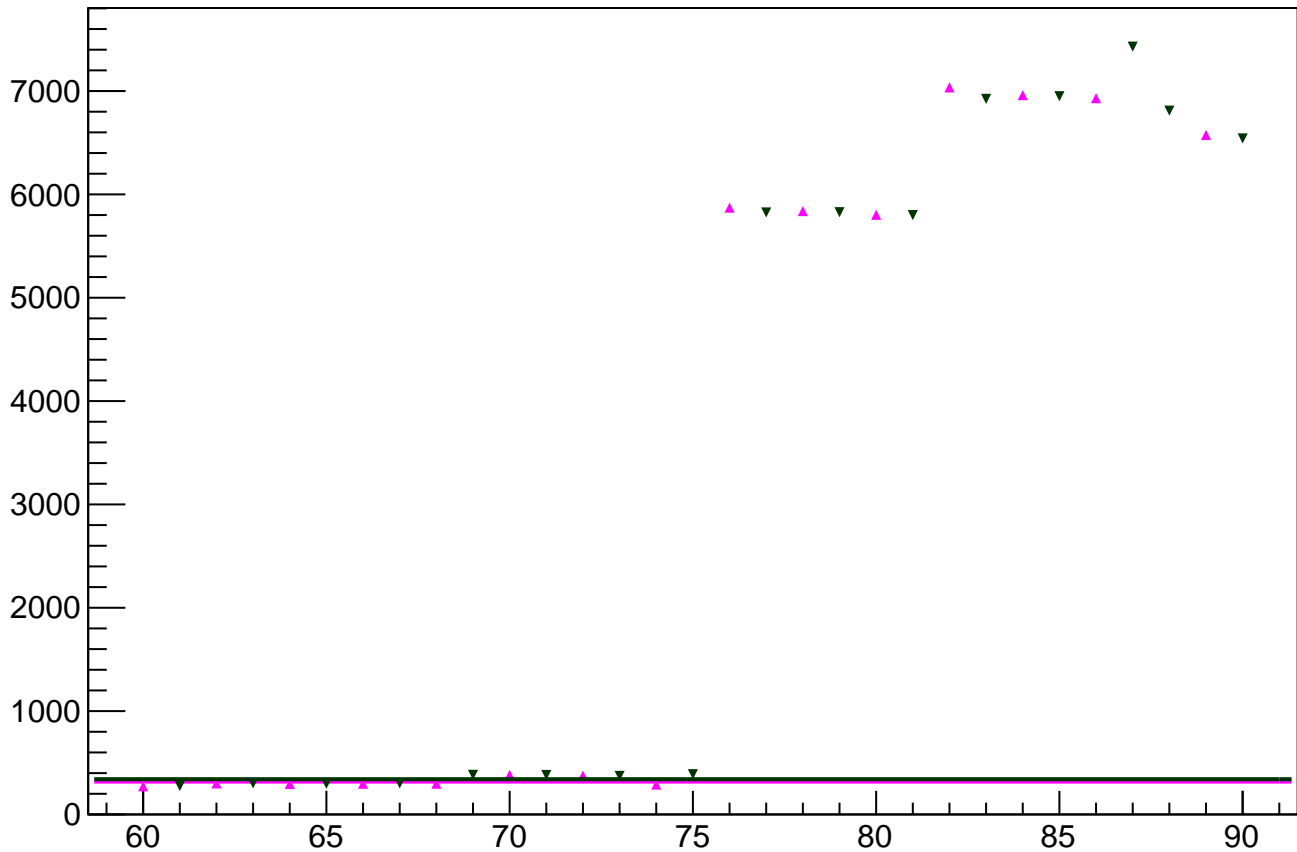
Left Out: 218.456+/-164.157  $\chi^2$ /NDF:10.5/15

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

476.614+/-152.896  $\chi^2$ /NDF: 21.1/14

Left In: 476.614+/-152.896  $\chi^2$ /NDF:21.1/14

# reg\_asym\_atr1l2\_dd\_rms vs slug



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

Left Out: 341.323+/-0.116  $\chi^2$ /NDF:6517847.6/15

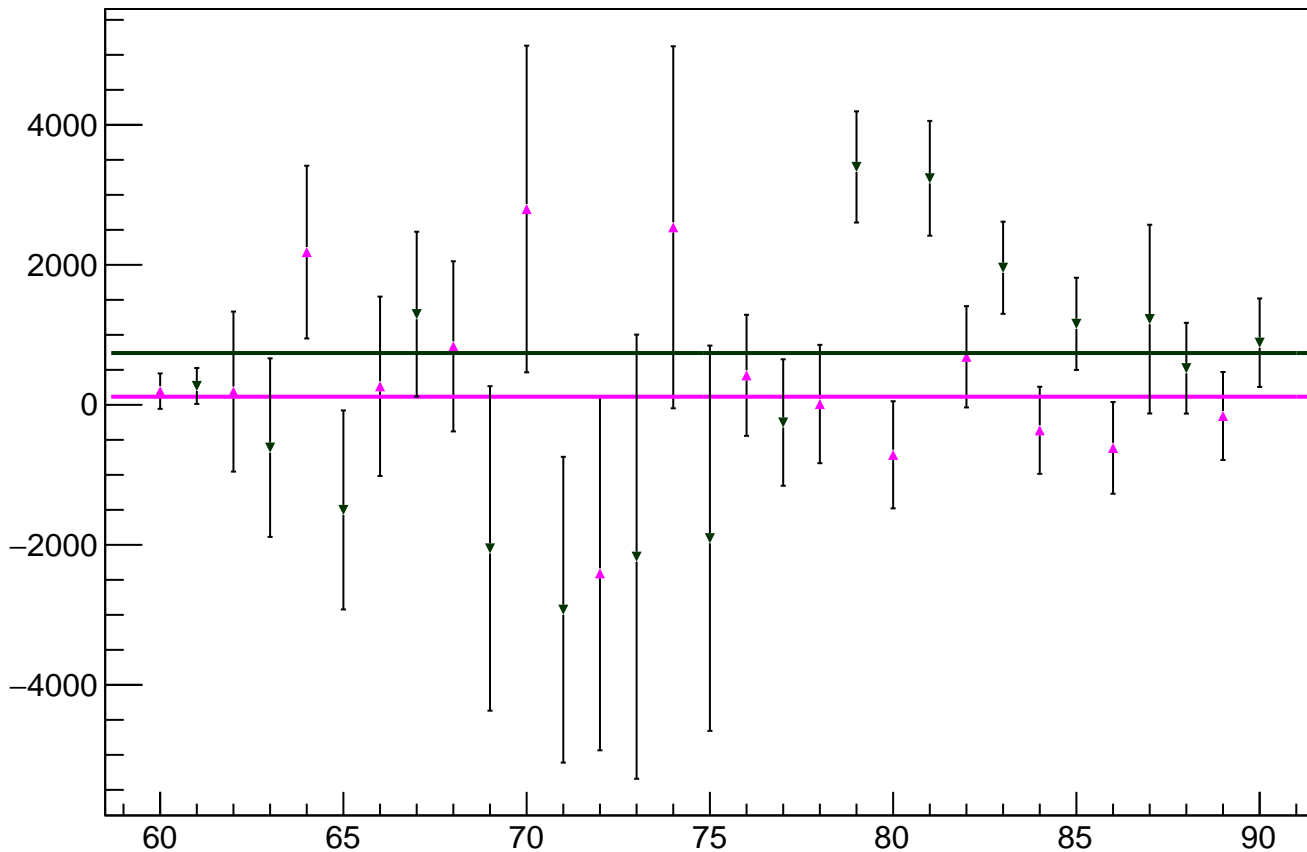
341.323+/-0.116  $\chi^2$ /NDF: 6517847.6/15

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

317.799+/-0.108  $\chi^2$ /NDF: 6648512.1/14

Left In: 317.799+/-0.108  $\chi^2$ /NDF:6648512.1/14

# asym\_atr1l2\_dd\_correction\_mean vs slug



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

Left Out: 740.331+/-176.823  $\chi^2/\text{NDF}$ :39.0/15

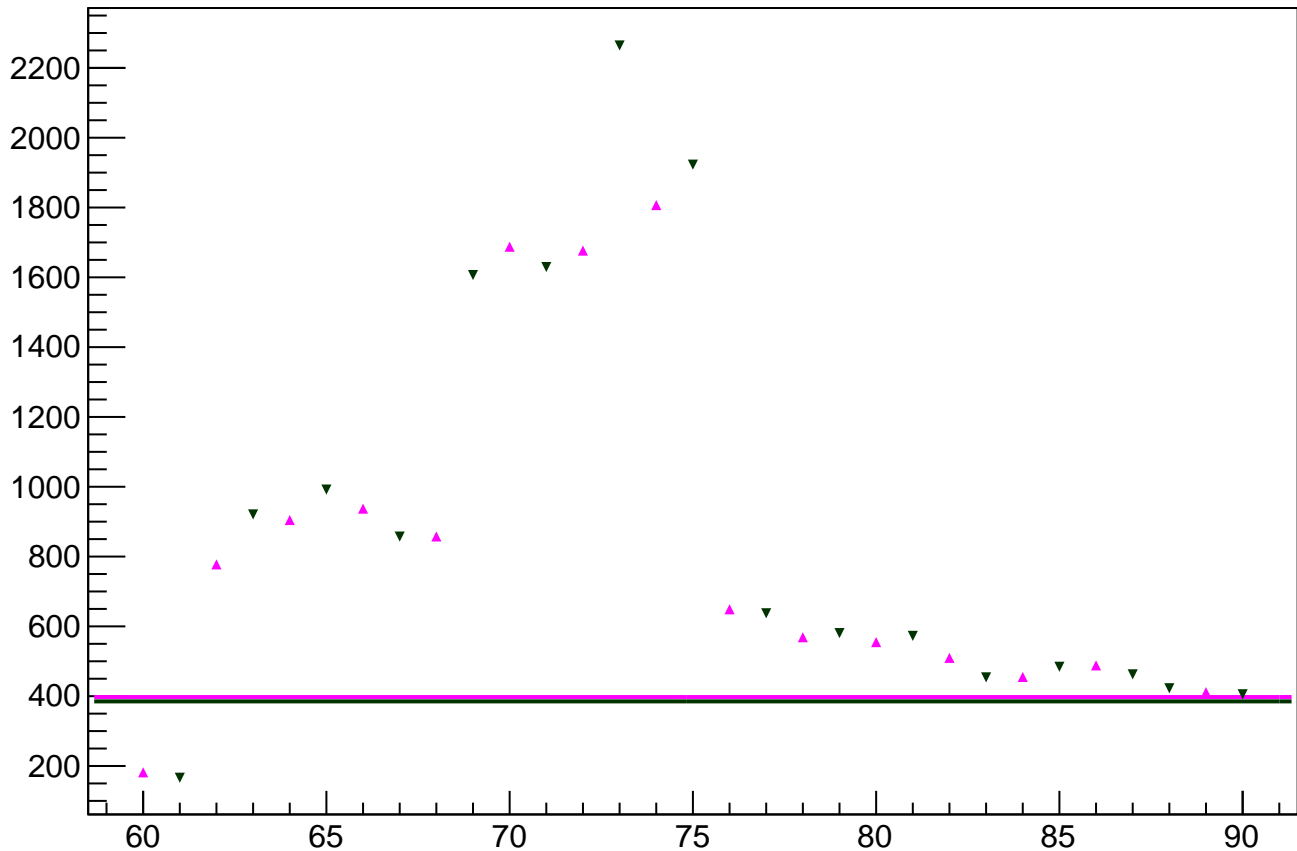
740.331+/-176.823  $\chi^2/\text{NDF}$ : 39.0/15

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

115.787+/-175.119  $\chi^2/\text{NDF}$ : 10.4/14

Left In: 115.787+/-175.119  $\chi^2/\text{NDF}$ :10.4/14

# asym\_atr1l2\_dd\_correction\_rms vs slug



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

Left Out: 385.043+/-0.125  $\chi^2$ /NDF:5487121.6/15

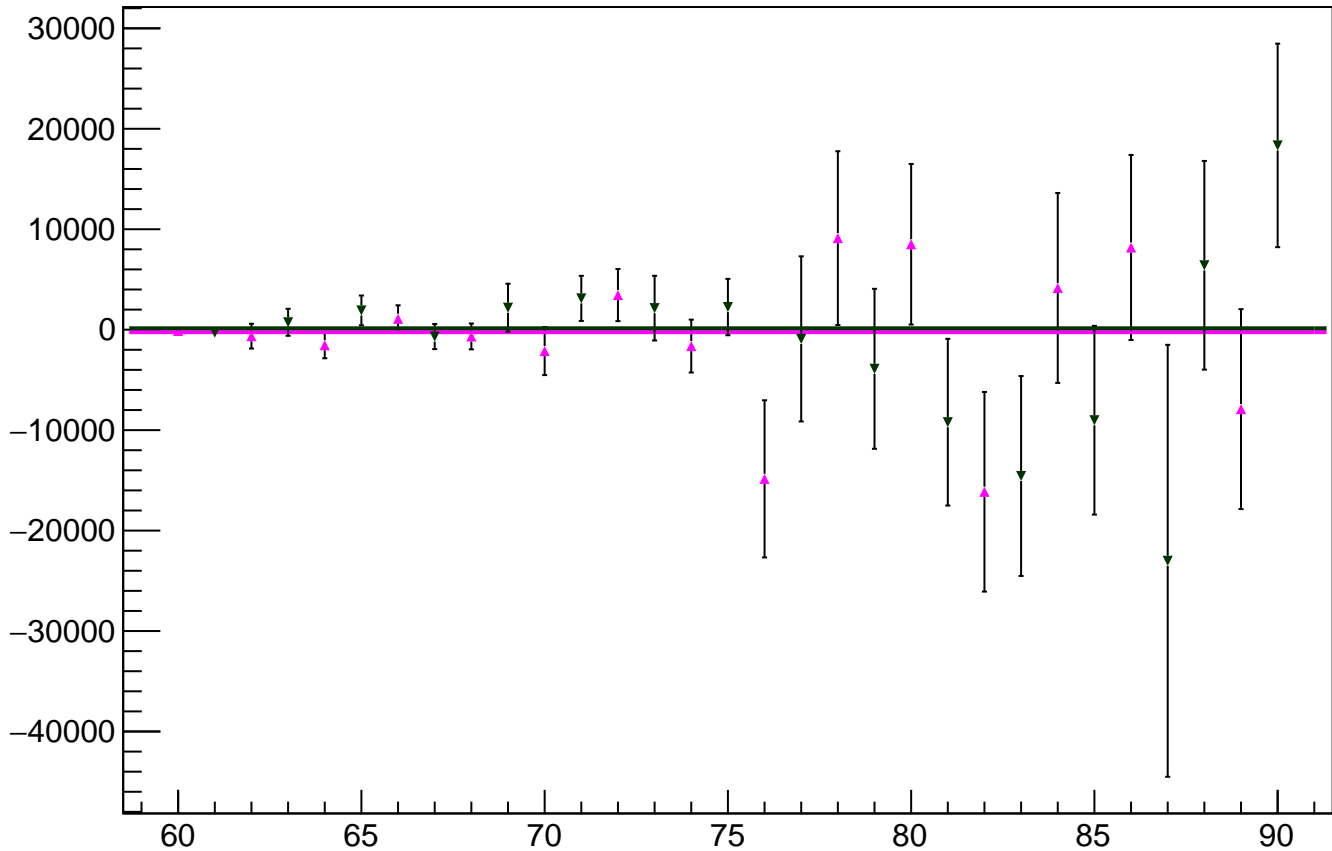
385.043+/-0.125  $\chi^2$ /NDF: 5487121.6/15

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

Left In: 397.577+/-0.124  $\chi^2$ /NDF:4811033.6/14

397.577+/-0.124  $\chi^2$ /NDF: 4811033.6/14

# asym\_atr1l2\_dd\_mean vs slug



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

137.094+/-395.294  $\chi^2$ /NDF: 15.7/15

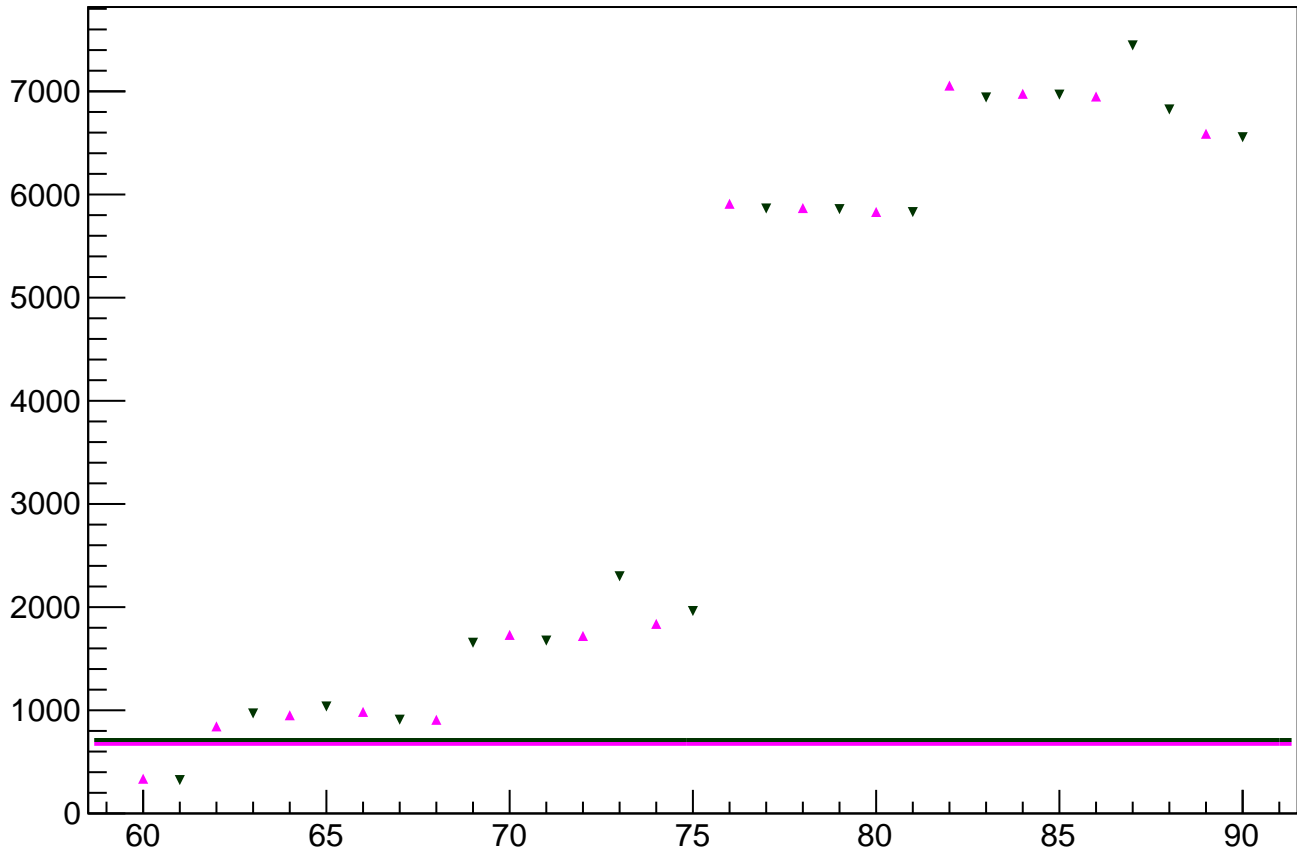
Left Out: 137.094+/-395.294  $\chi^2$ /NDF: 15.7/15

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

-246.974+/-360.612  $\chi^2$ /NDF: 15.3/14

Left In: -246.974+/-360.612  $\chi^2$ /NDF: 15.3/14

# asym\_atr1l2\_dd\_rms vs slug



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

Left Out: 711.975+/-0.280  $\chi^2$ /NDF:8616721.8/15

711.975+/-0.280  $\chi^2$ /NDF: 8616721.8/15

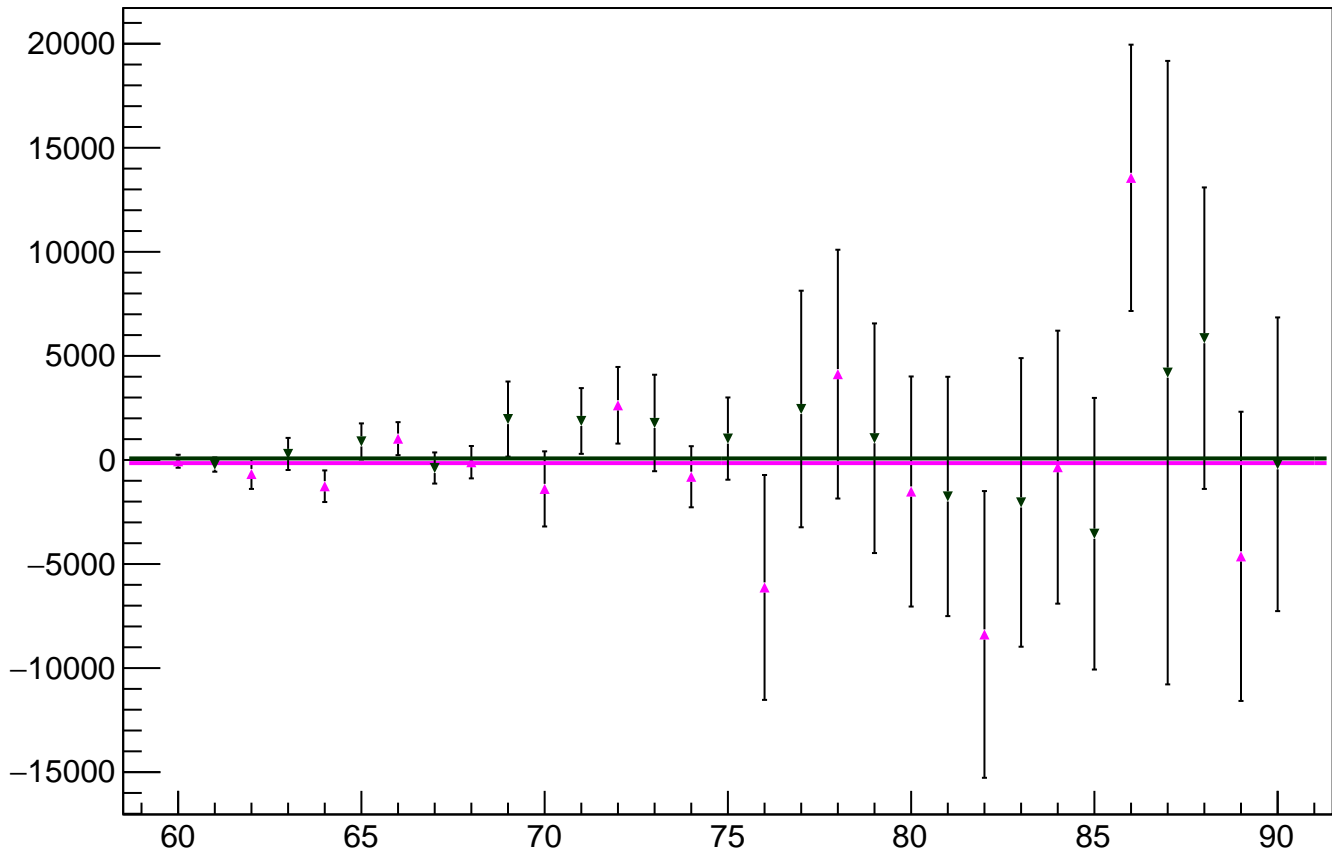
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

675.162+/-0.255  $\chi^2$ /NDF: 8283903.0/14

Left In: 675.162+/-0.255  $\chi^2$ /NDF:8283903.0/14



# reg\_asym\_atl\_dd\_atr\_dd\_avg\_mean vs slug



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

Left Out: 74.522+/-261.001  $\chi^2$ /NDF:6.7/15

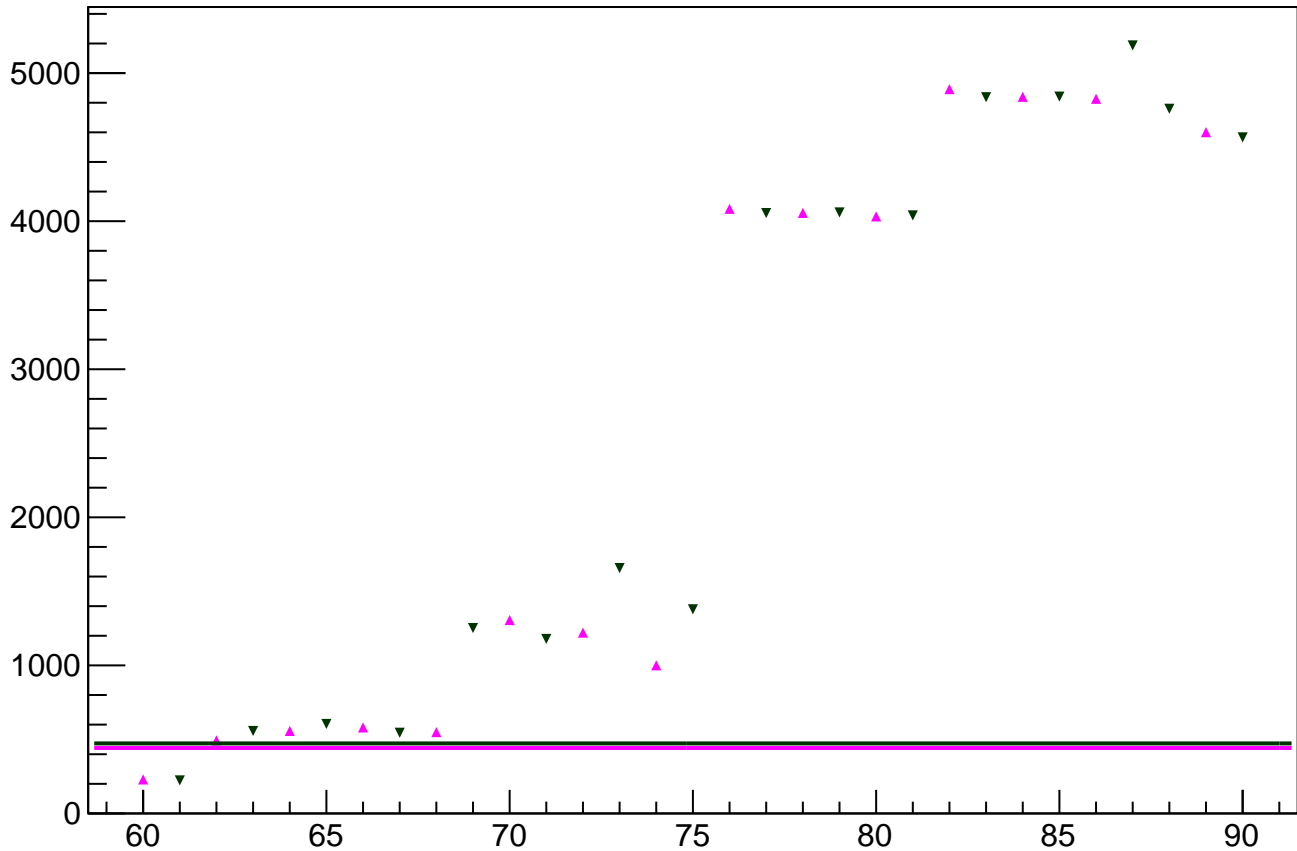
74.522+/-261.001  $\chi^2$ /NDF: 6.7/15

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

-151.546+/-232.897  $\chi^2$ /NDF: 16.1/14

Left In: -151.546+/-232.897  $\chi^2$ /NDF:16.1/14

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_rms vs slug



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

Left Out: 473.023+/-0.185  $\chi^2$ /NDF:8537667.8/15

473.023+/-0.185  $\chi^2$ /NDF: 8537667.8/15

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

Left In: 442.122+/-0.165  $\chi^2$ /NDF:8060849.4/14

442.122+/-0.165  $\chi^2$ /NDF: 8060849.4/14

# asym\_atl\_dd\_atr\_dd\_avg\_correction\_mean vs slug



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

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

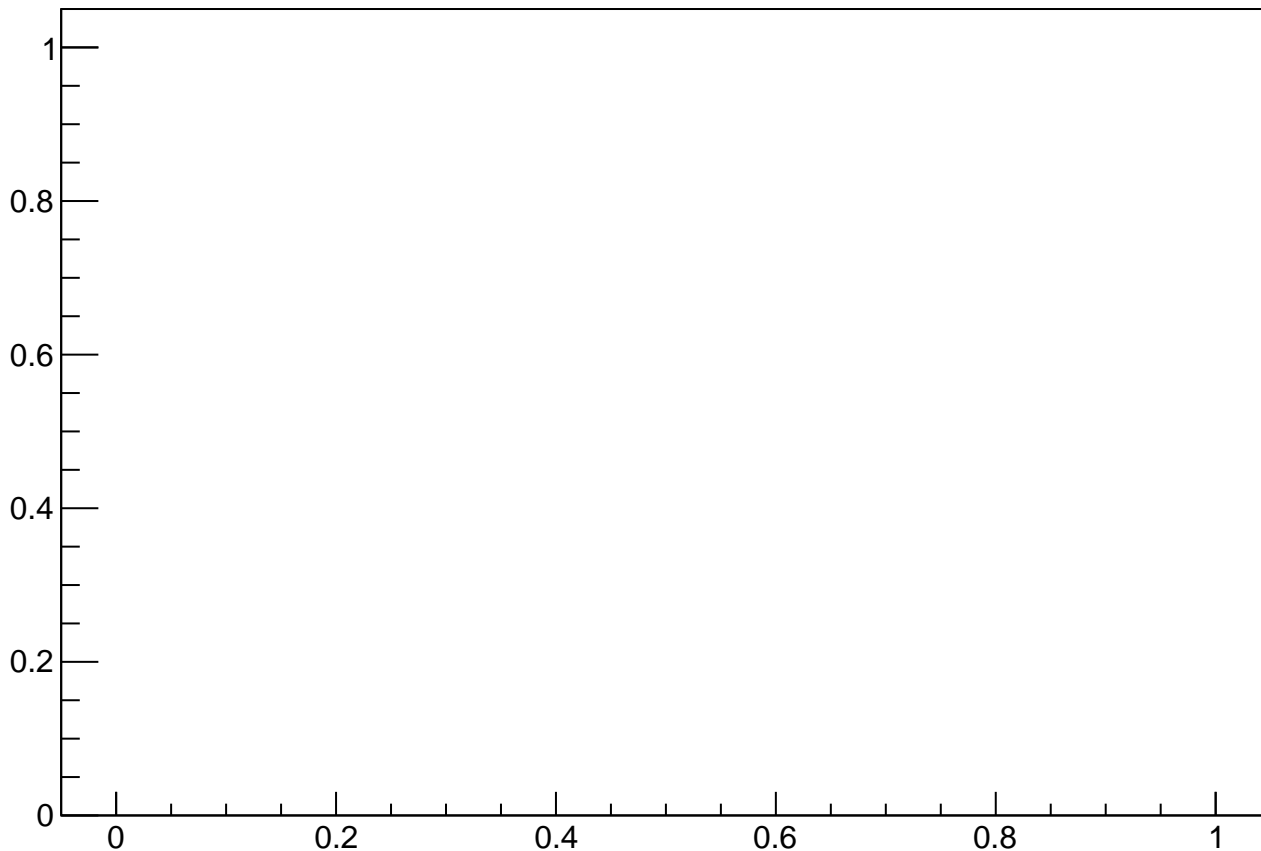
Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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



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

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

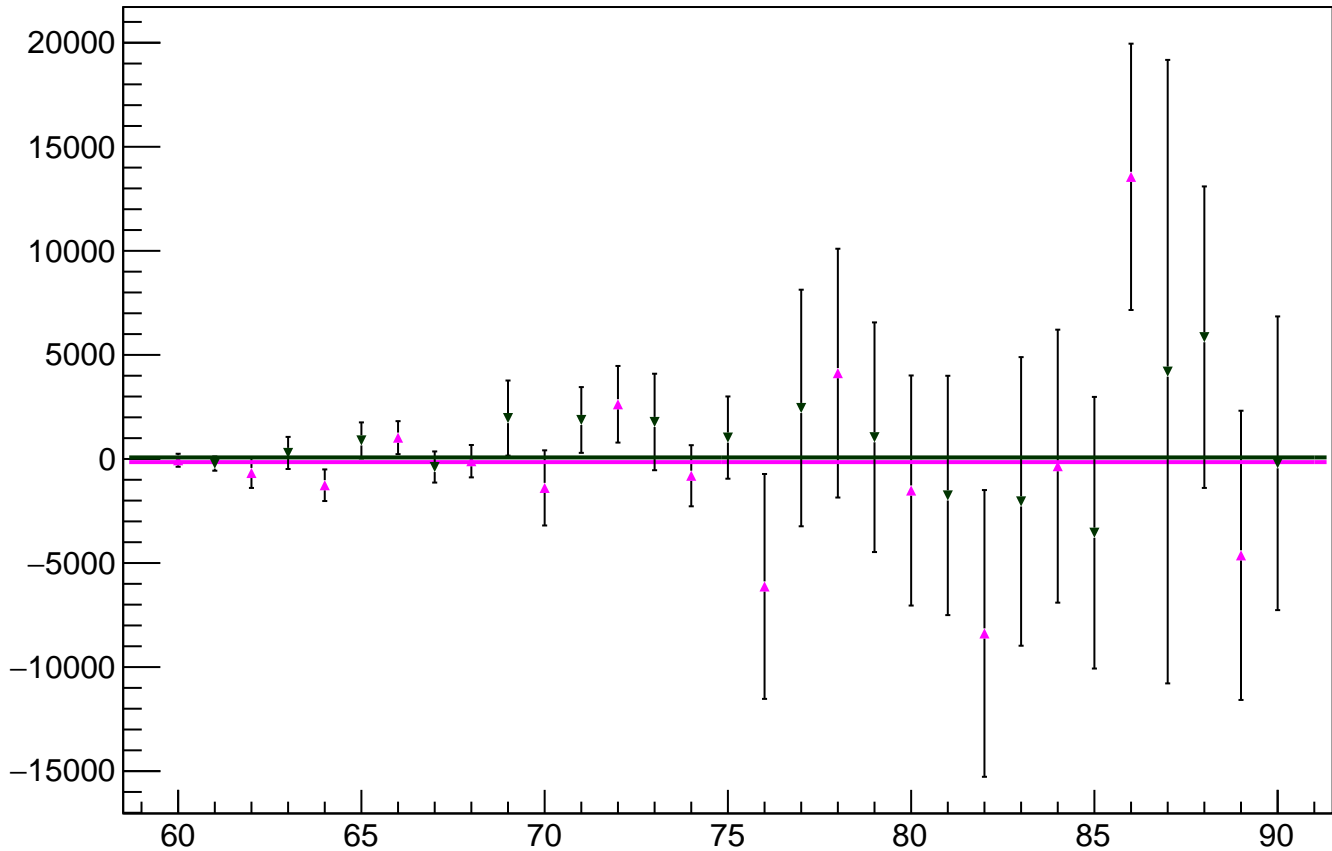
Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

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



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

Left Out: 74.522+/-261.001  $\chi^2$ /NDF:6.7/15

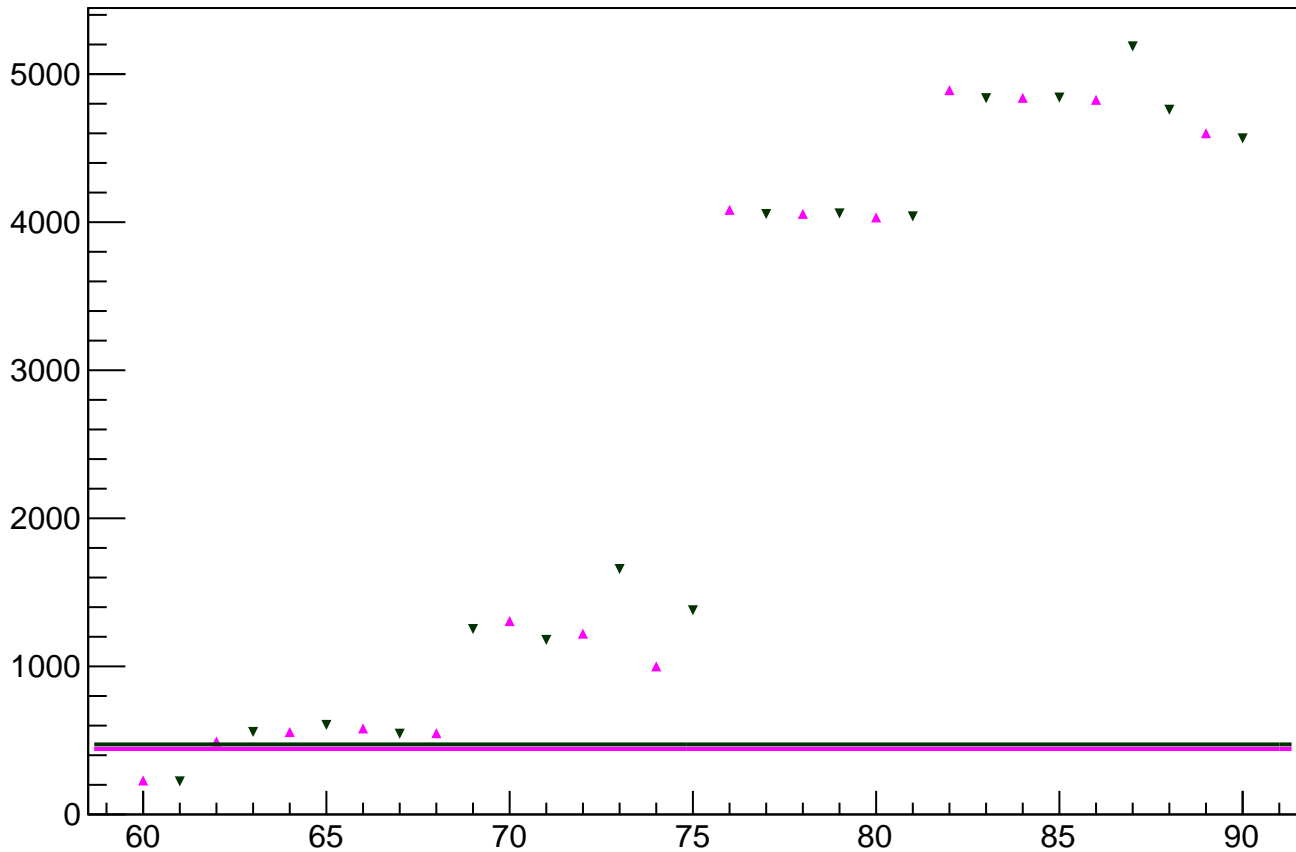
74.522+/-261.001  $\chi^2$ /NDF: 6.7/15

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

Left In: -151.546+/-232.897  $\chi^2$ /NDF:16.1/14

-151.546+/-232.897  $\chi^2$ /NDF: 16.1/14

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



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

Left Out: 473.023+/-0.185  $\chi^2$ /NDF:8537667.8/15

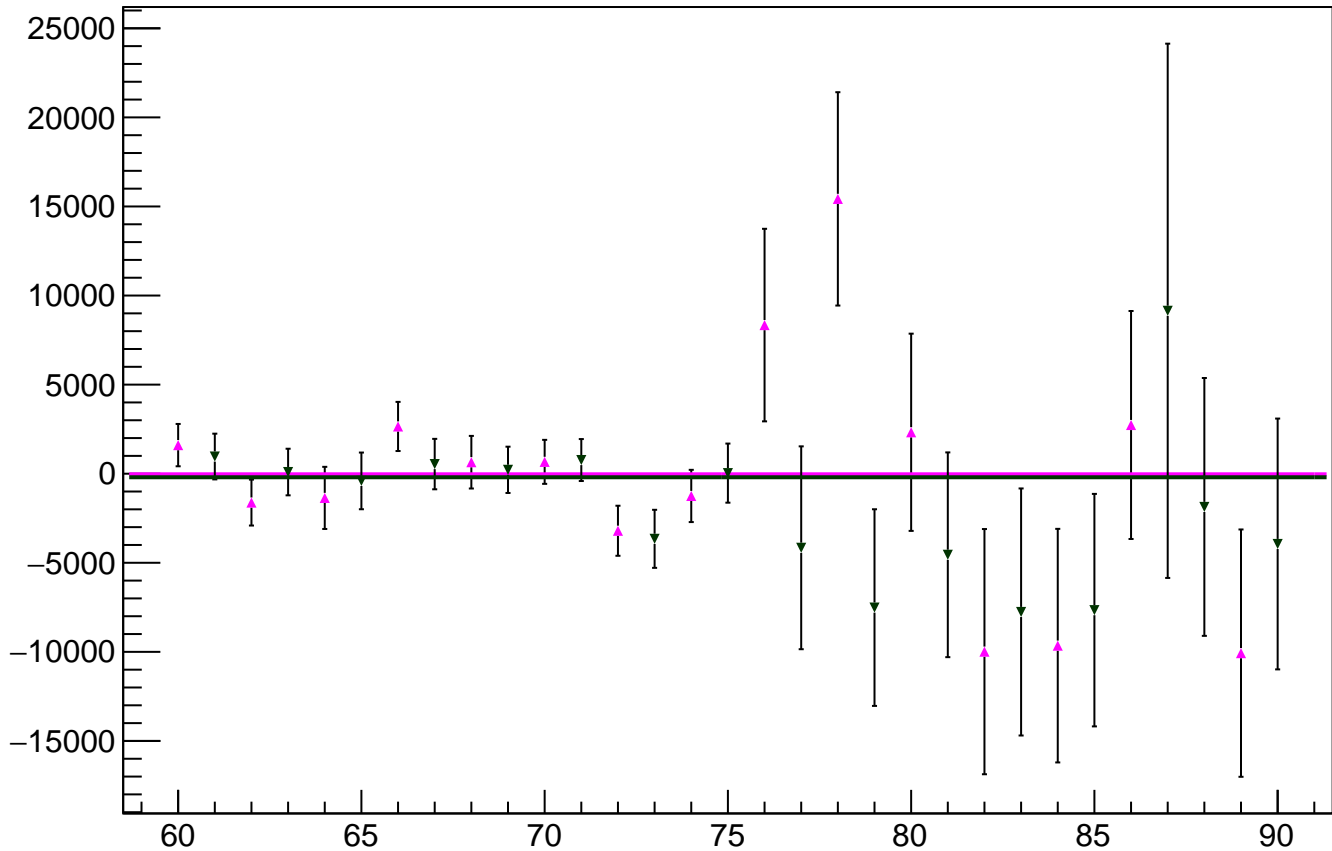
473.023+/-0.185  $\chi^2$ /NDF: 8537667.8/15

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

442.122+/-0.165  $\chi^2$ /NDF: 8060849.4/14

Left In: 442.122+/-0.165  $\chi^2$ /NDF:8060849.4/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_mean vs slug



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

-199.675+/-481.029  $\chi^2/\text{NDF}$ : 12.5/15

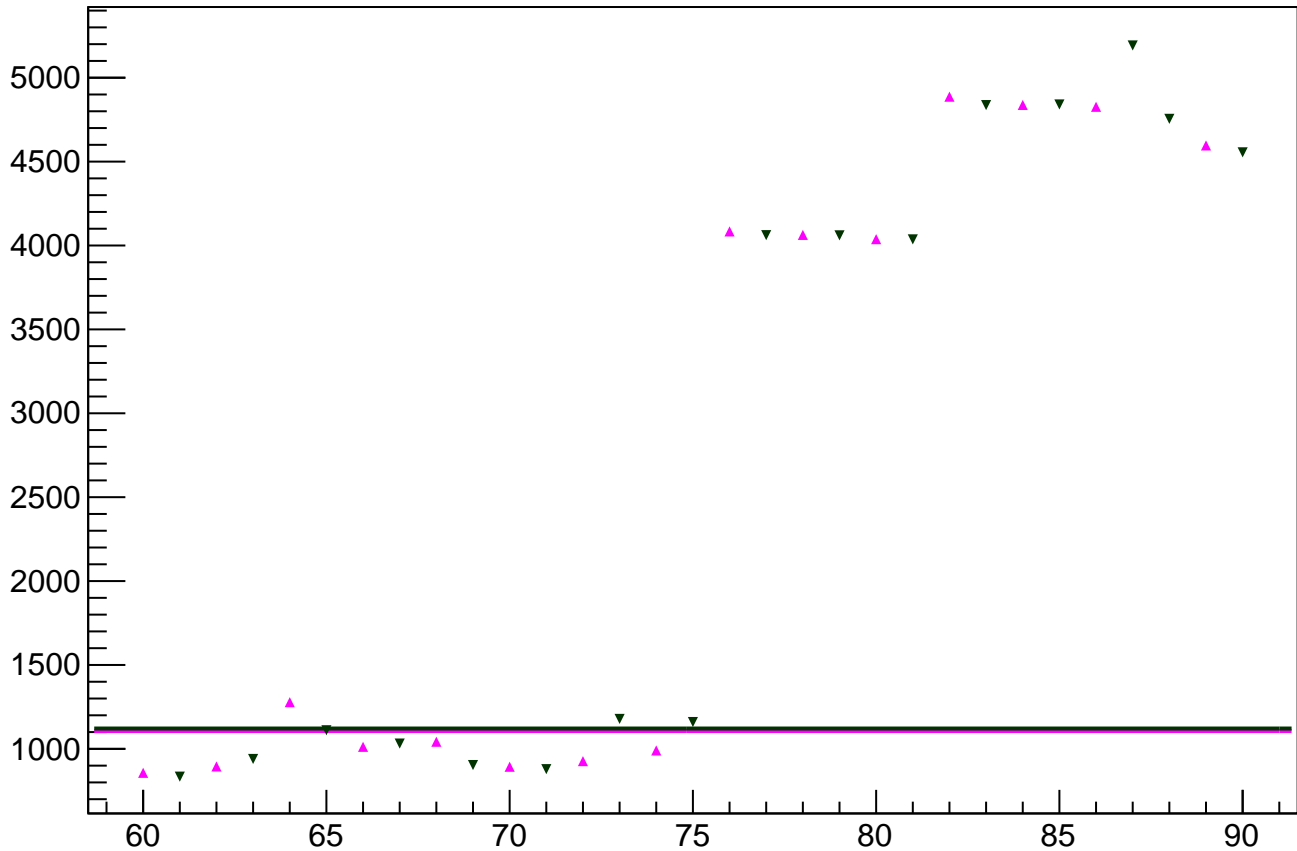
Left Out: -199.675+/-481.029  $\chi^2/\text{NDF}$ : 12.5/15

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

-33.136+/-474.795  $\chi^2/\text{NDF}$ : 29.9/14

Left In: -33.136+/-474.795  $\chi^2/\text{NDF}$ : 29.9/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_rms vs slug



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

1121.194+/-0.340  $\chi^2$ /NDF: 4258192.2/15

Left Out: 1121.194+/-0.340  $\chi^2$ /NDF: 4258192.2/15

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

1106.329+/-0.336  $\chi^2$ /NDF: 4367829.1/14

Left In: 1106.329+/-0.336  $\chi^2$ /NDF: 4367829.1/14



# asym\_atl\_dd\_atr\_dd\_dd\_correction\_mean vs slug



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

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

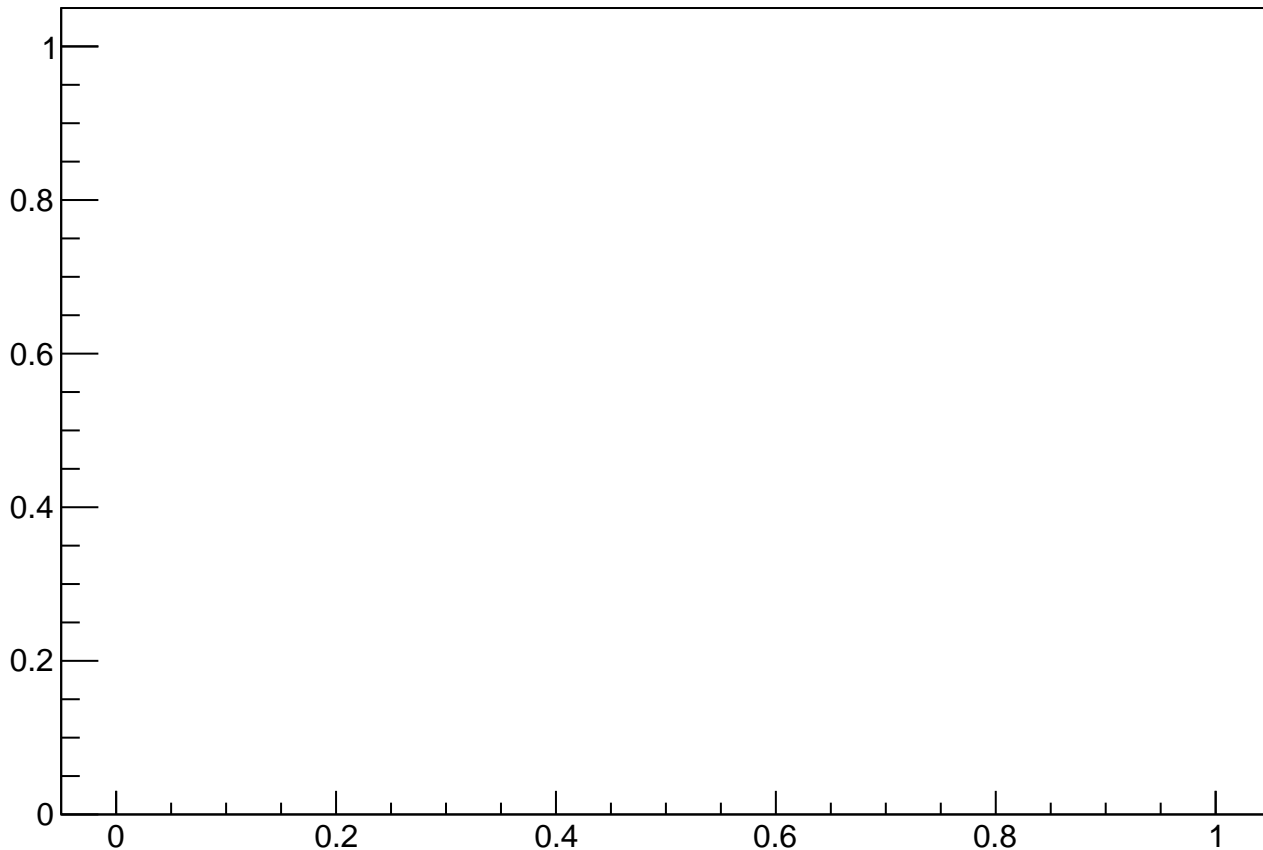
Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

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



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

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

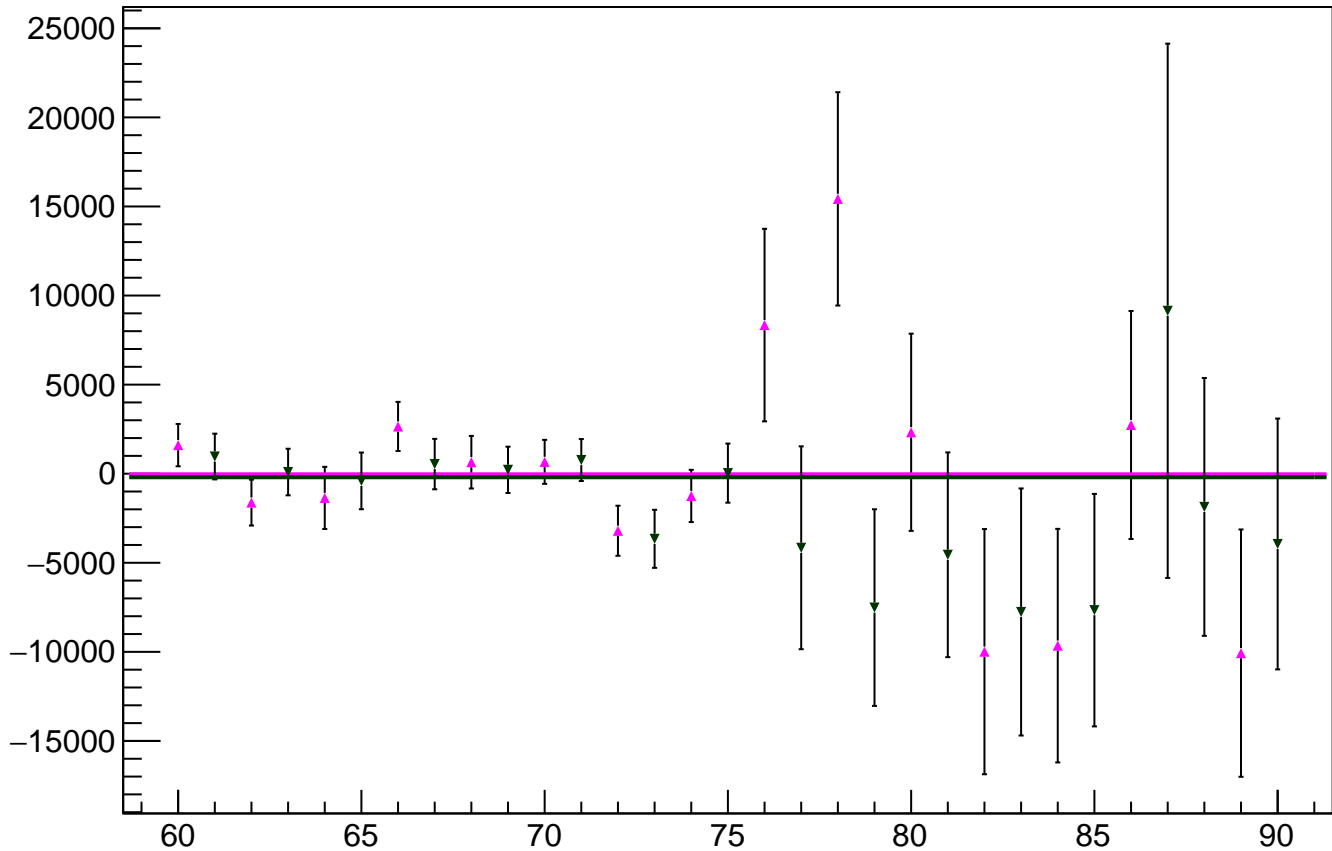
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

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

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



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

-199.675+/-481.029  $\chi^2$ /NDF: 12.5/15

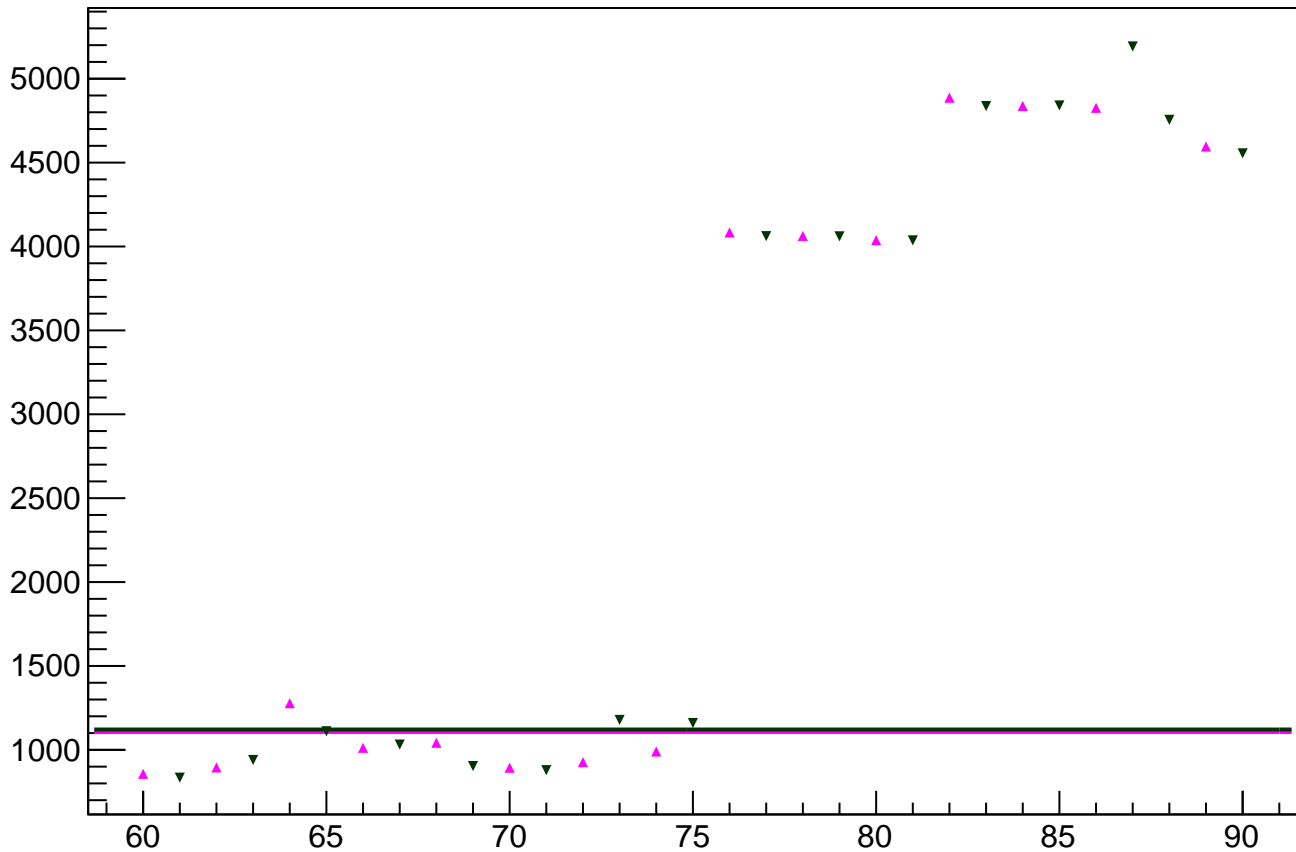
Left Out: -199.675+/-481.029  $\chi^2$ /NDF:12.5/15

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

-33.136+/-474.795  $\chi^2$ /NDF: 29.9/14

Left In: -33.136+/-474.795  $\chi^2$ /NDF:29.9/14

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



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

1121.194+/-0.340  $\chi^2/\text{NDF}$ : 4258192.2/15

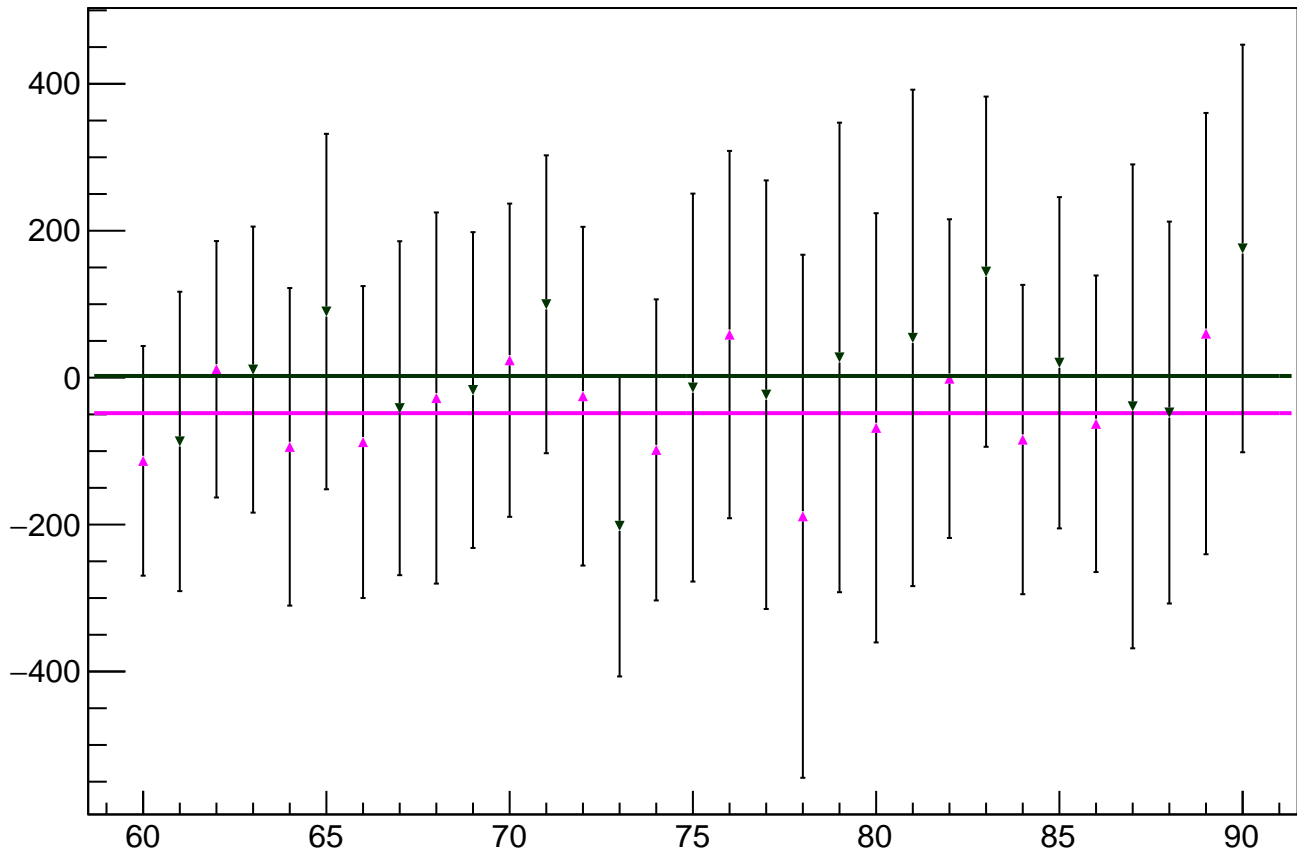
Left Out: 1121.194+/-0.340  $\chi^2/\text{NDF}$ : 4258192.2/15

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

1106.329+/-0.336  $\chi^2/\text{NDF}$ : 4367829.1/14

Left In: 1106.329+/-0.336  $\chi^2/\text{NDF}$ : 4367829.1/14

# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



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

Left Out: 2.291+/-60.239  $\chi^2/\text{NDF}$ :2.4/15

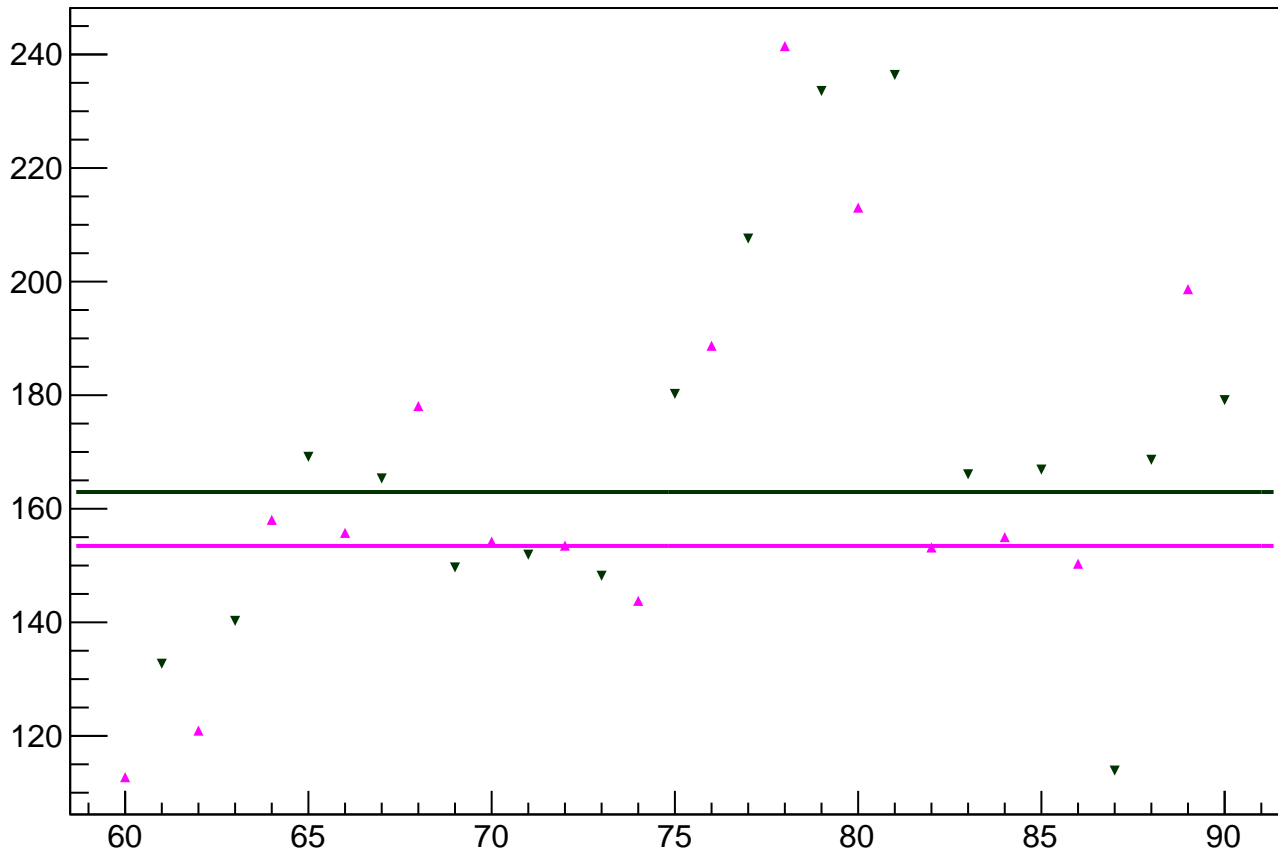
2.291+/-60.239  $\chi^2/\text{NDF}$ : 2.4/15

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

-48.297+/-56.554  $\chi^2/\text{NDF}$ : 1.1/14

Left In: -48.297+/-56.554  $\chi^2/\text{NDF}$ :1.1/14

# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 162.948+/-0.043  $\chi^2$ /NDF:397186.5/15

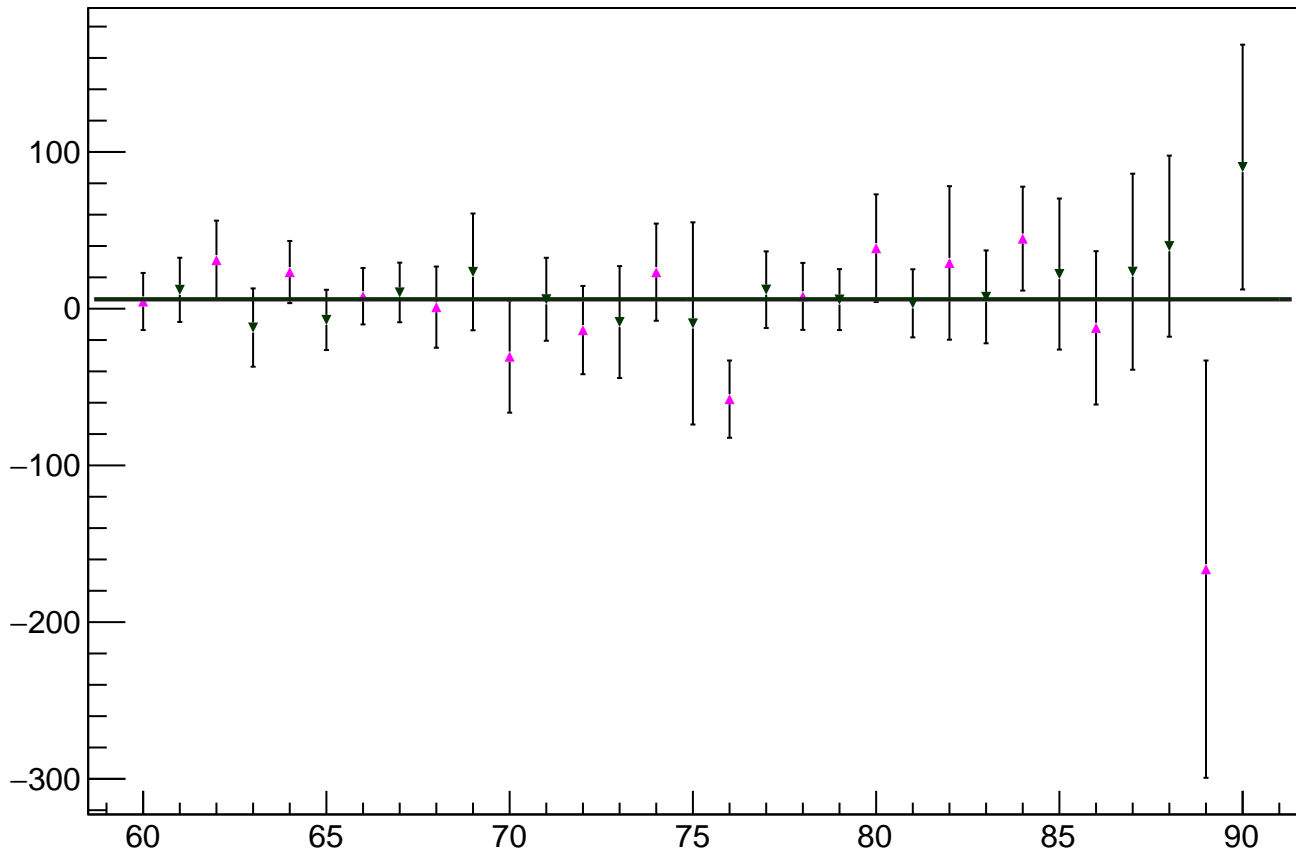
162.948+/-0.043  $\chi^2$ /NDF: 397186.5/15

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

Left In: 153.453+/-0.040  $\chi^2$ /NDF:520815.5/14

153.453+/-0.040  $\chi^2$ /NDF: 520815.5/14

# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



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

Left Out: 6.044+/-6.844  $\chi^2$ /NDF:3.4/15

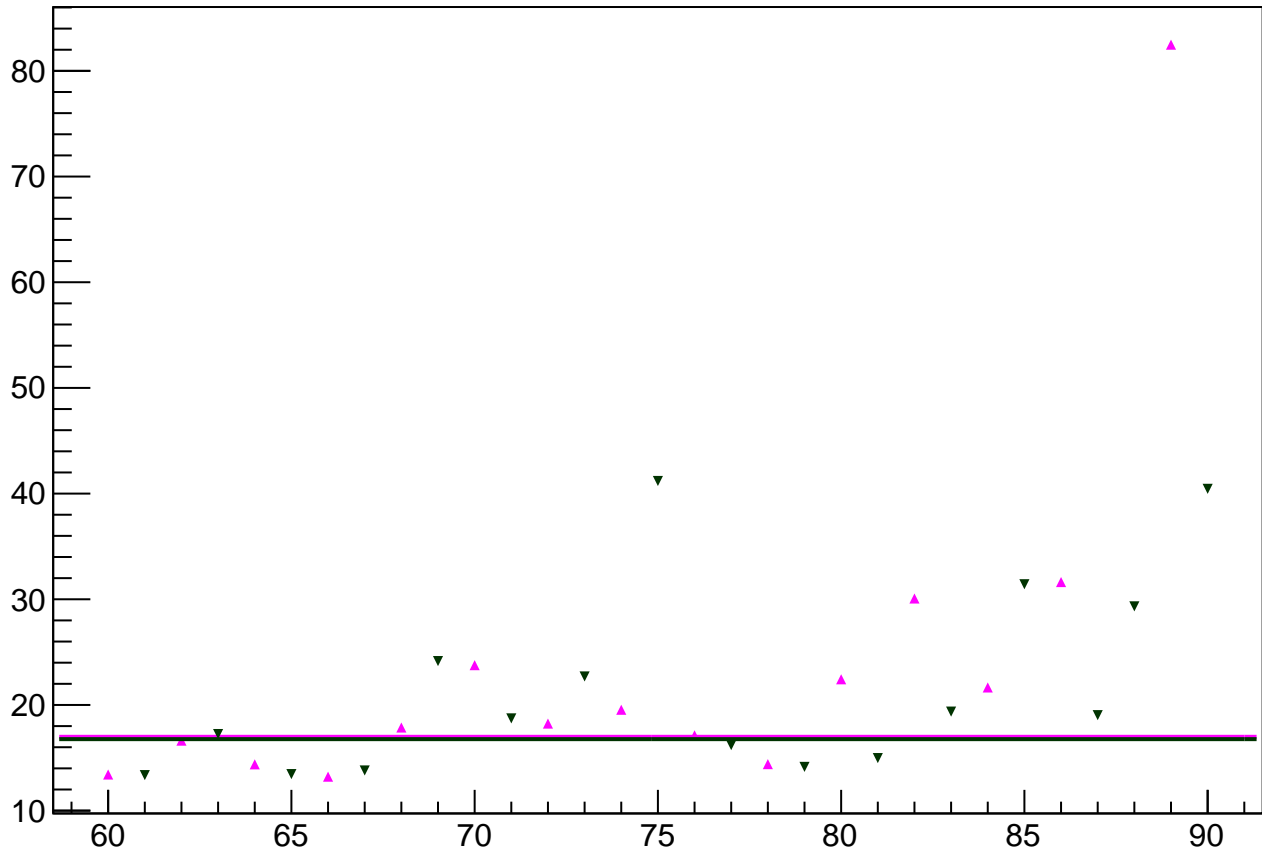
6.044+/-6.844  $\chi^2$ /NDF: 3.4/15

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

5.865+/-6.857  $\chi^2$ /NDF: 14.6/14

Left In: 5.865+/-6.857  $\chi^2$ /NDF:14.6/14

# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

16.766+/-0.005  $\chi^2/\text{NDF}$ : 1128089.4/15

Left Out: 16.766+/-0.005  $\chi^2/\text{NDF}$ : 1128089.4/15

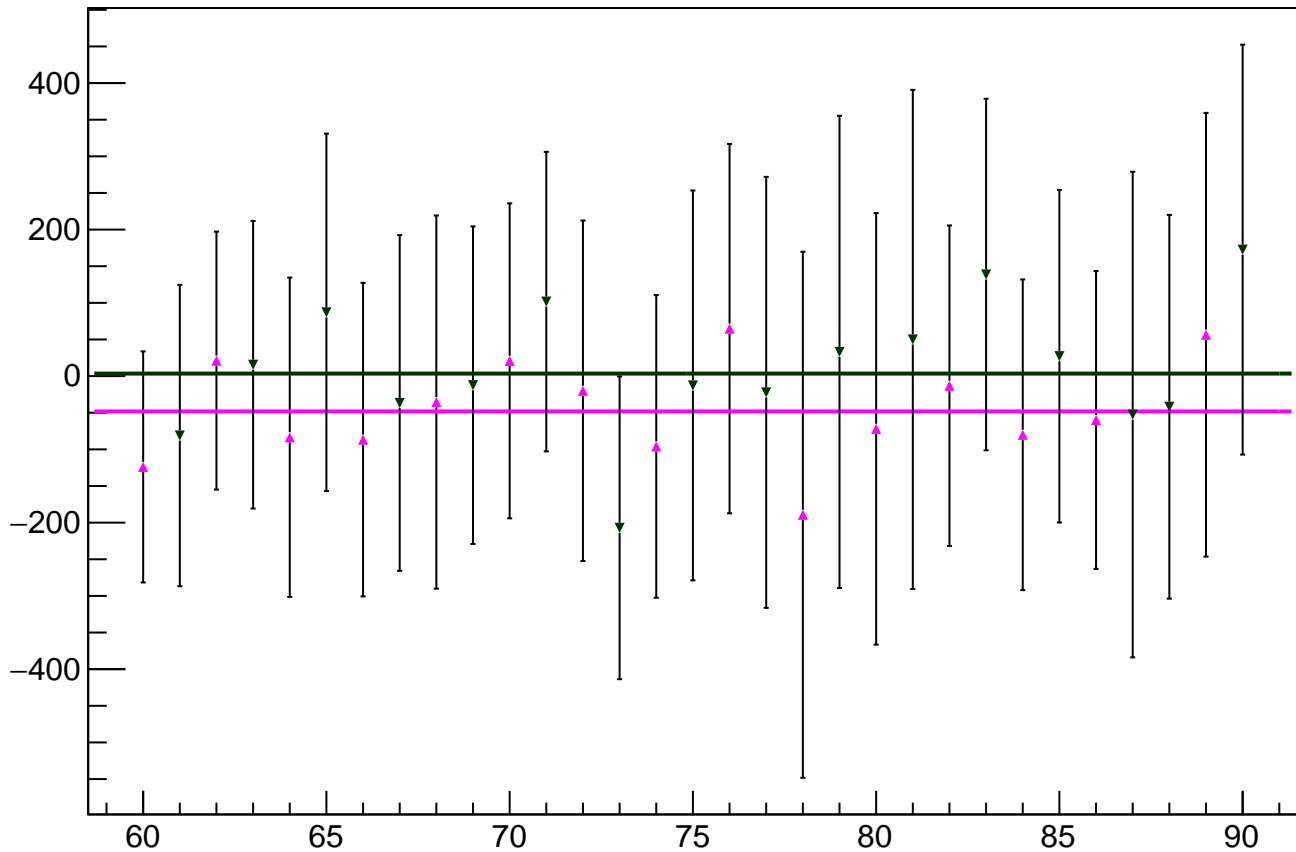
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

16.987+/-0.005  $\chi^2/\text{NDF}$ : 1216083.8/14

Left In: 16.987+/-0.005  $\chi^2/\text{NDF}$ : 1216083.8/14



# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs slug



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

Left Out: 3.452+/-60.717  $\chi^2/\text{NDF}$ : 2.4/15

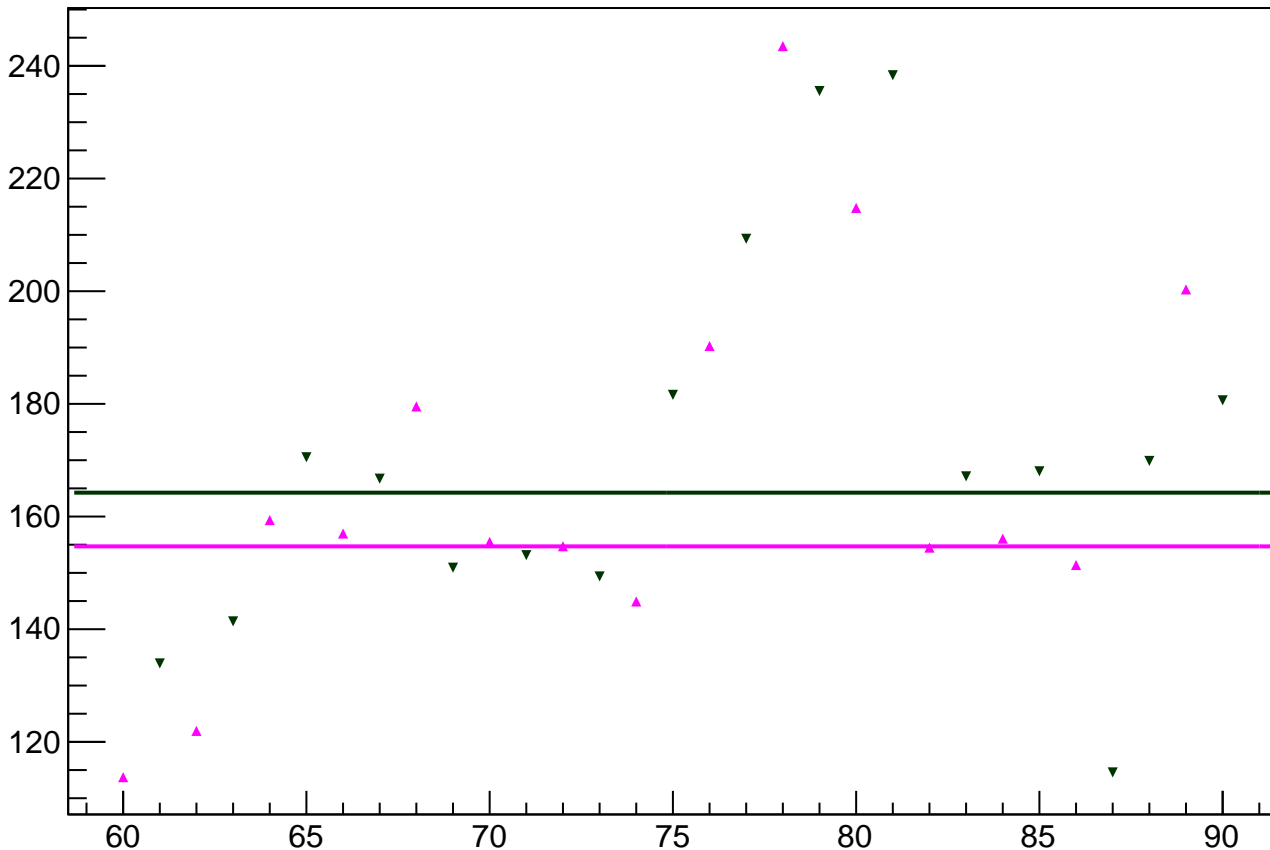
3.452+/-60.717  $\chi^2/\text{NDF}$ : 2.4/15

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

-48.208+/-57.014  $\chi^2/\text{NDF}$ : 1.2/14

Left In: -48.208+/-57.014  $\chi^2/\text{NDF}$ : 1.2/14

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs slug



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

Left Out: 164.239+/-0.043  $\chi^2$ /NDF:397396.0/15

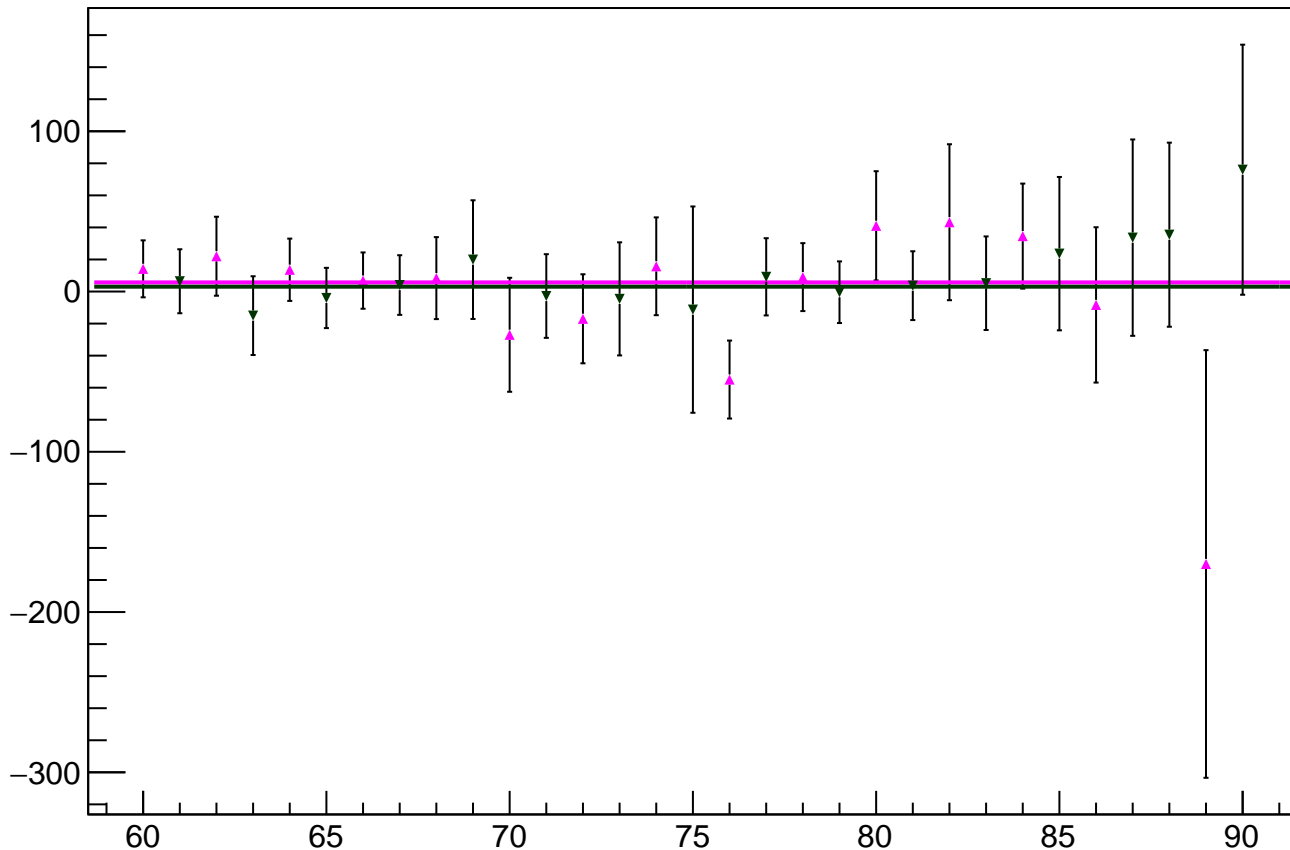
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 154.706+/-0.040  $\chi^2$ /NDF:520214.1/14

164.239+/-0.043  $\chi^2$ /NDF: 397396.0/15

154.706+/-0.040  $\chi^2$ /NDF: 520214.1/14

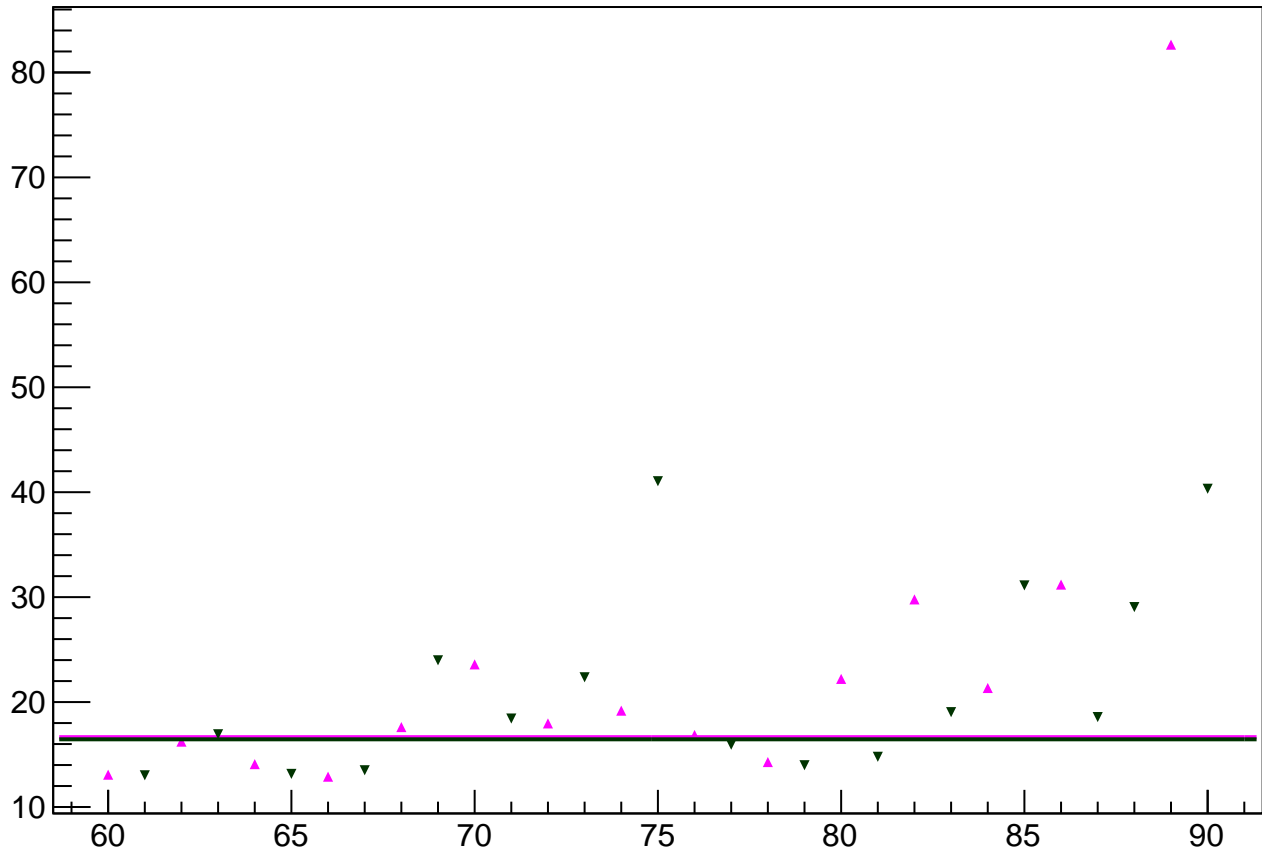
# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 3.025+/-6.733  $\chi^2$ /NDF:2.8/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 5.702+/-6.742  $\chi^2$ /NDF:13.0/14

3.025+/-6.733  $\chi^2$ /NDF: 2.8/15  
5.702+/-6.742  $\chi^2$ /NDF: 13.0/14

# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs slug



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

16.451+/-0.005  $\chi^2/\text{NDF}$ : 1149224.5/15

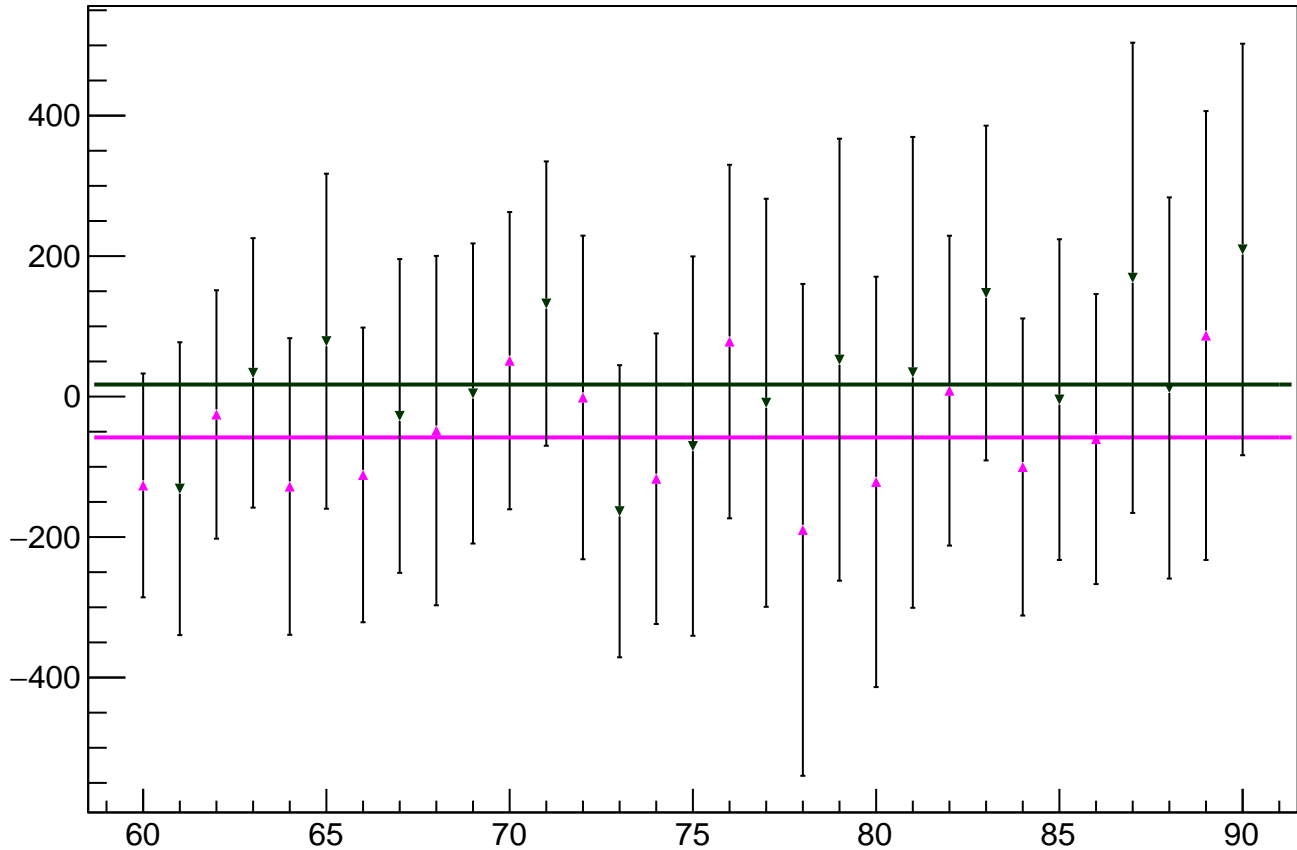
Left Out: 16.451+/-0.005  $\chi^2/\text{NDF}$ : 1149224.5/15

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

16.657+/-0.005  $\chi^2/\text{NDF}$ : 1239456.6/14

Left In: 16.657+/-0.005  $\chi^2/\text{NDF}$ : 1239456.6/14

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



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

Left Out: 17.159+/-60.551  $\chi^2/\text{NDF}$ : 2.8/15

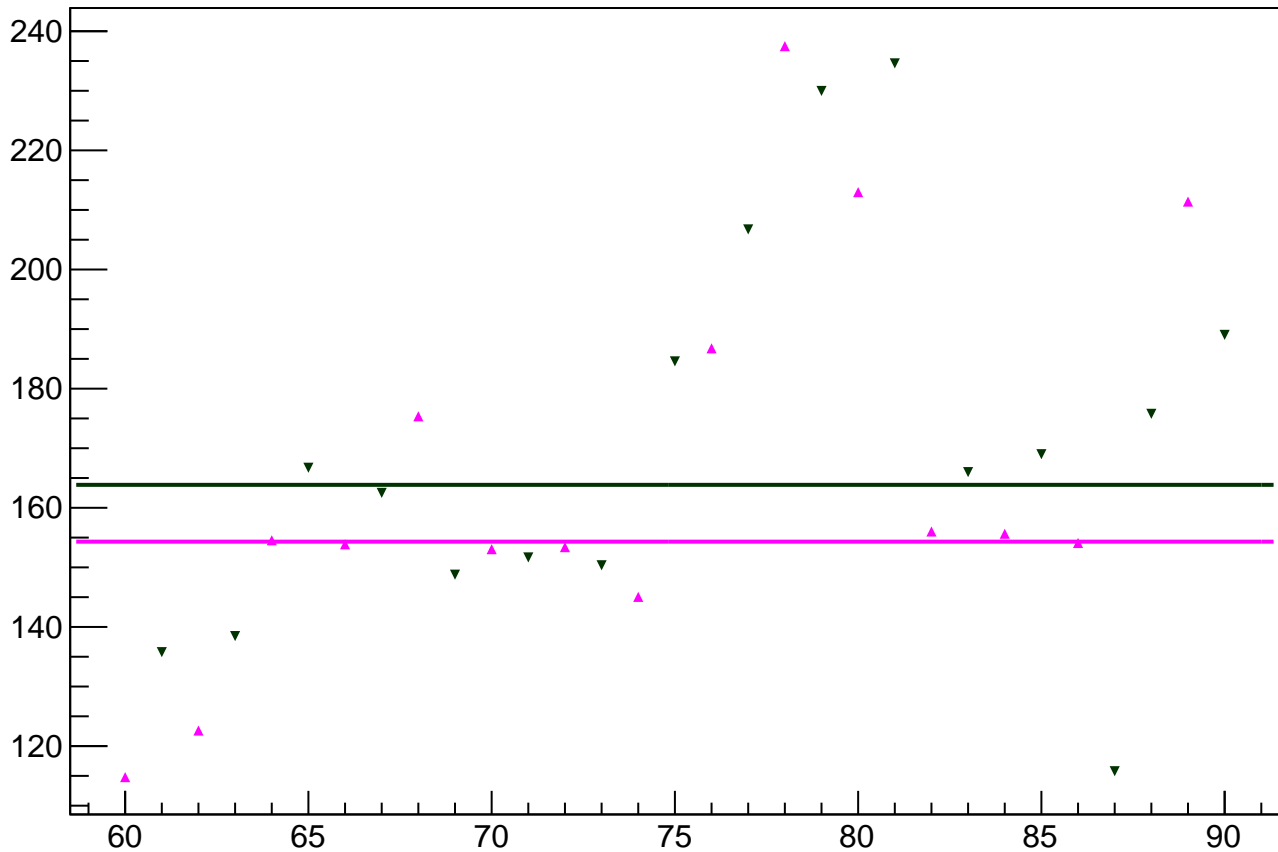
17.159+/-60.551  $\chi^2/\text{NDF}$ : 2.8/15

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

-58.139+/-56.886  $\chi^2/\text{NDF}$ : 1.6/14

Left In: -58.139+/-56.886  $\chi^2/\text{NDF}$ : 1.6/14

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 163.855+/-0.043  $\chi^2/\text{NDF}$ : 391141.6/15

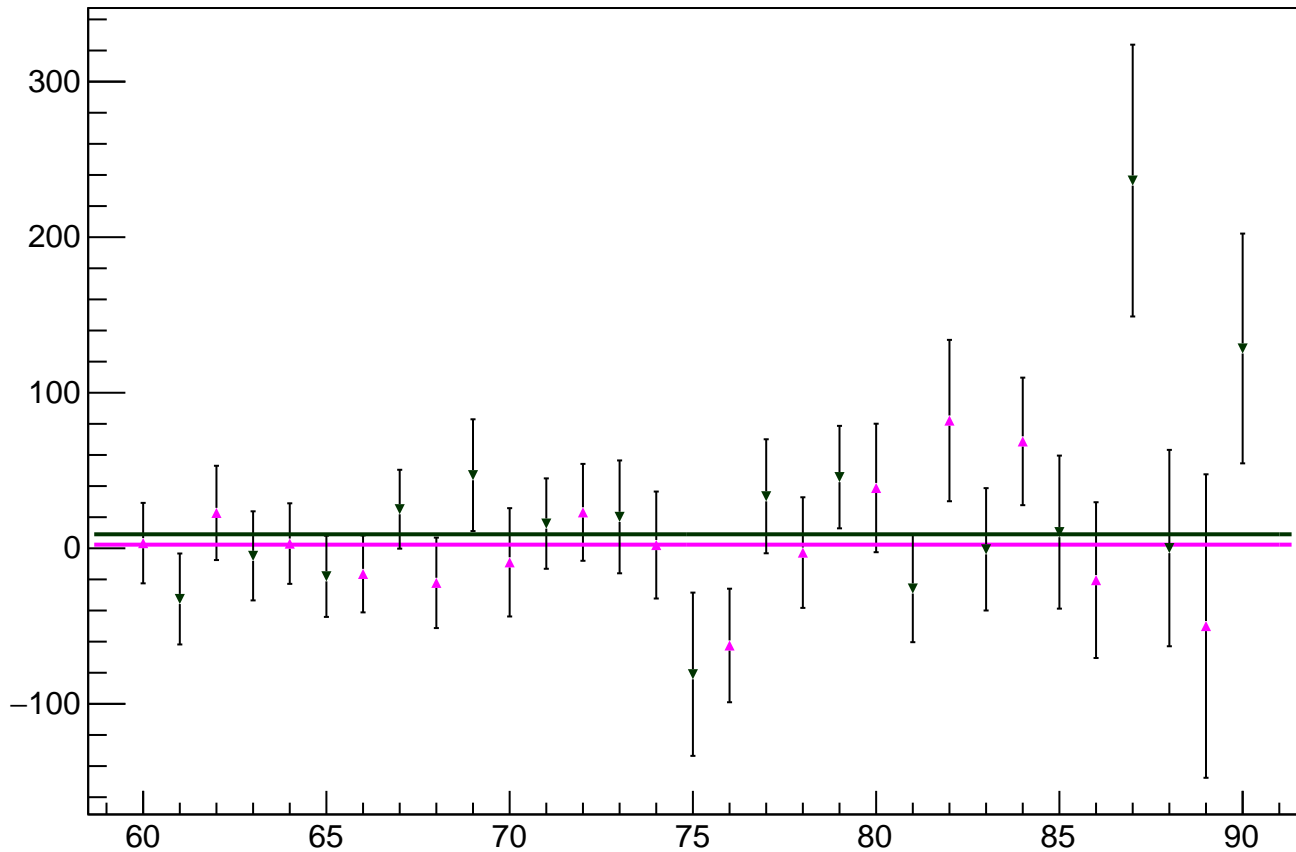
163.855+/-0.043  $\chi^2/\text{NDF}$ : 391141.6/15

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

Left In: 154.318+/-0.040  $\chi^2/\text{NDF}$ : 496592.3/14

154.318+/-0.040  $\chi^2/\text{NDF}$ : 496592.3/14

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



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

Left Out: 9.002+/-8.900  $\chi^2/\text{NDF}$ :20.1/15

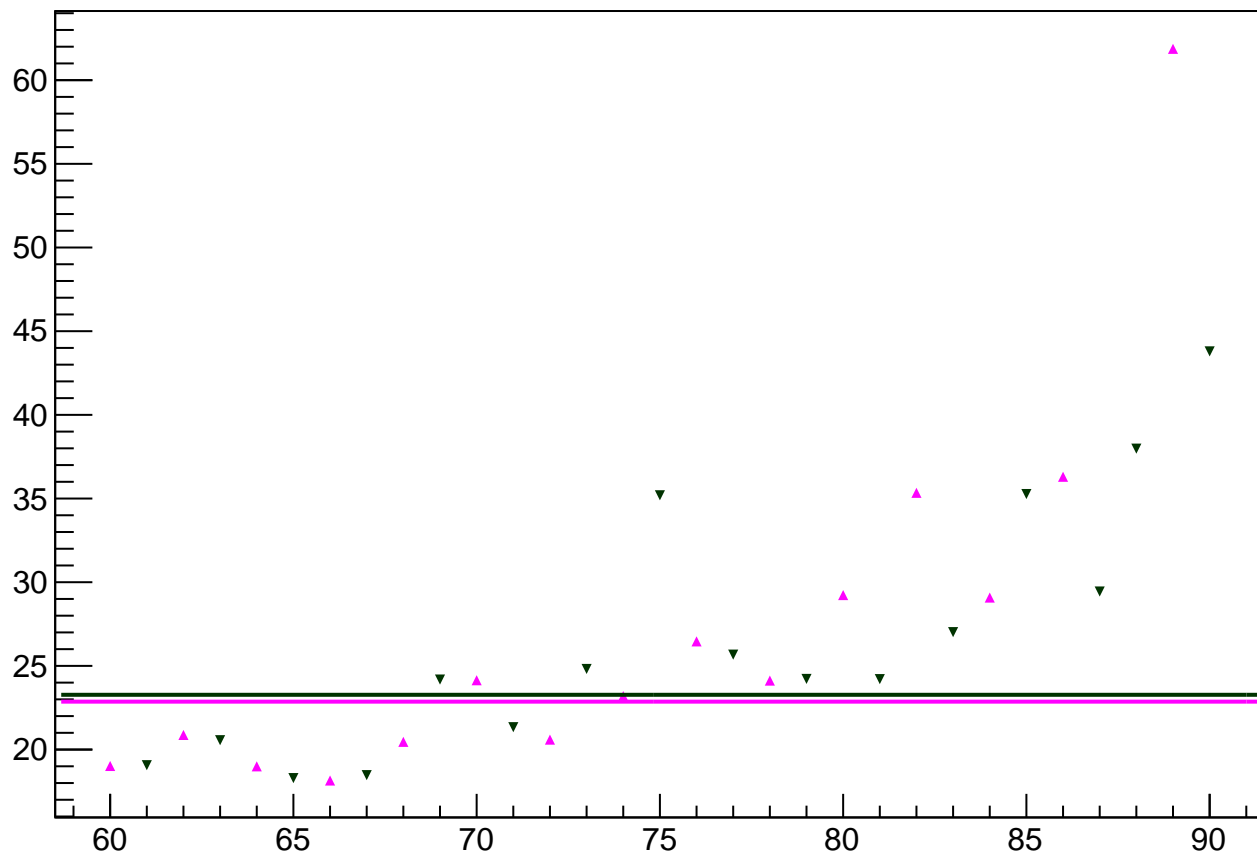
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.344+/-8.706  $\chi^2/\text{NDF}$ :11.7/14

9.002+/-8.900  $\chi^2/\text{NDF}$ : 20.1/15

2.344+/-8.706  $\chi^2/\text{NDF}$ : 11.7/14

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

Left Out: 23.273+/-0.006  $\chi^2$ /NDF:742571.8/15

23.273+/-0.006  $\chi^2$ /NDF: 742571.8/15

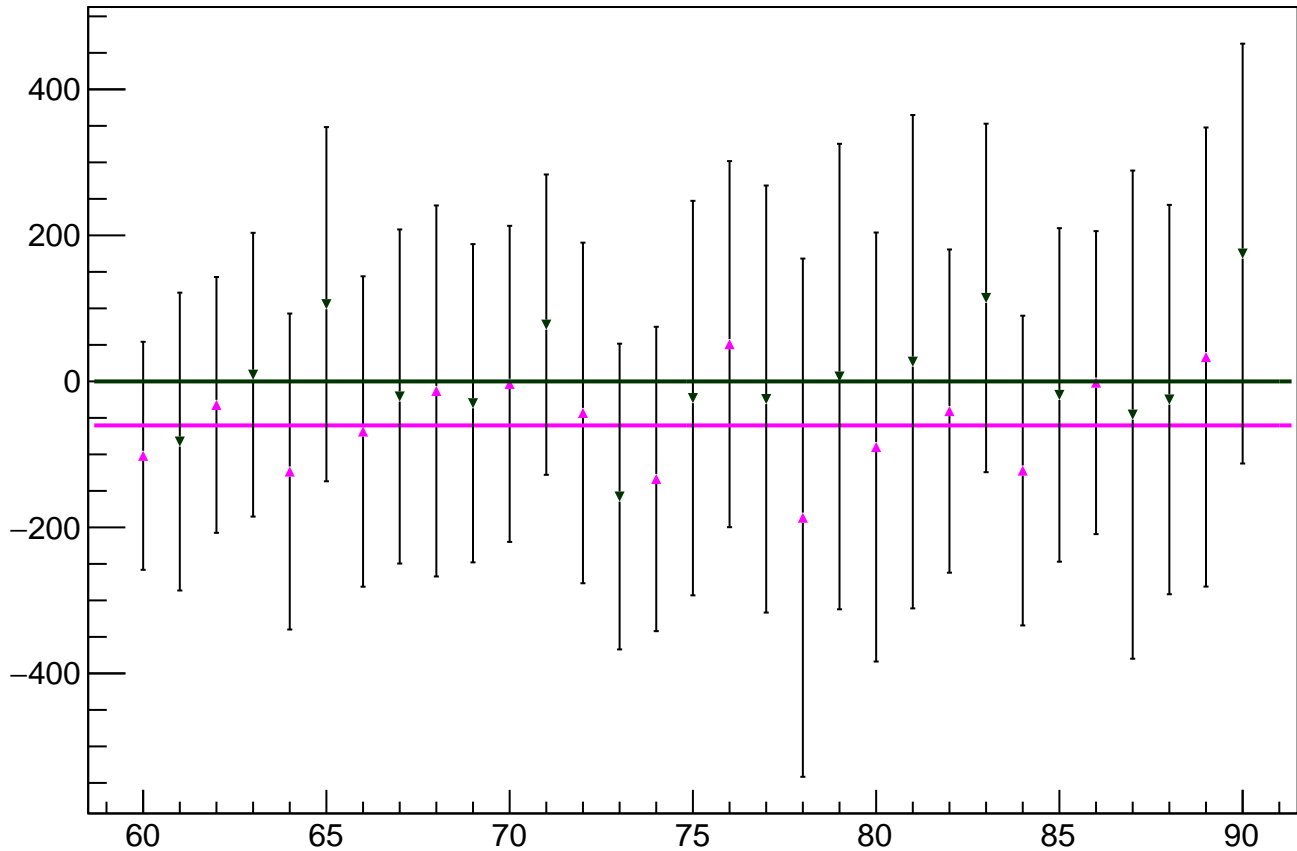
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

22.863+/-0.006  $\chi^2$ /NDF: 892404.7/14

Left In: 22.863+/-0.006  $\chi^2$ /NDF:892404.7/14



# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs slug



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

Left Out: -0.053+/-60.871  $\chi^2/\text{NDF}$ : 1.7/15

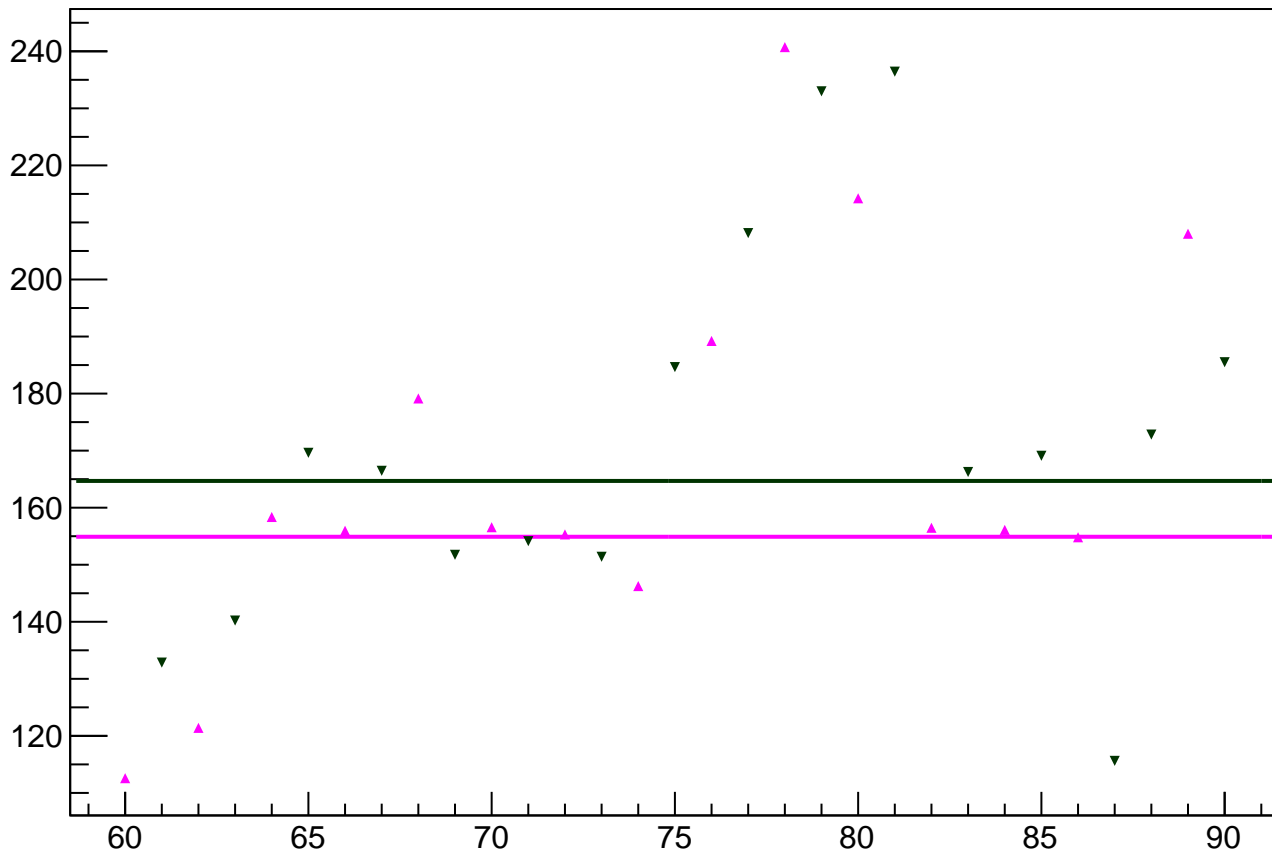
-0.053+/-60.871  $\chi^2/\text{NDF}$ : 1.7/15

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

-60.301+/-57.104  $\chi^2/\text{NDF}$ : 1.0/14

Left In: -60.301+/-57.104  $\chi^2/\text{NDF}$ : 1.0/14

# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 164.689+/-0.043  $\chi^2/\text{NDF}$ : 395008.7/15

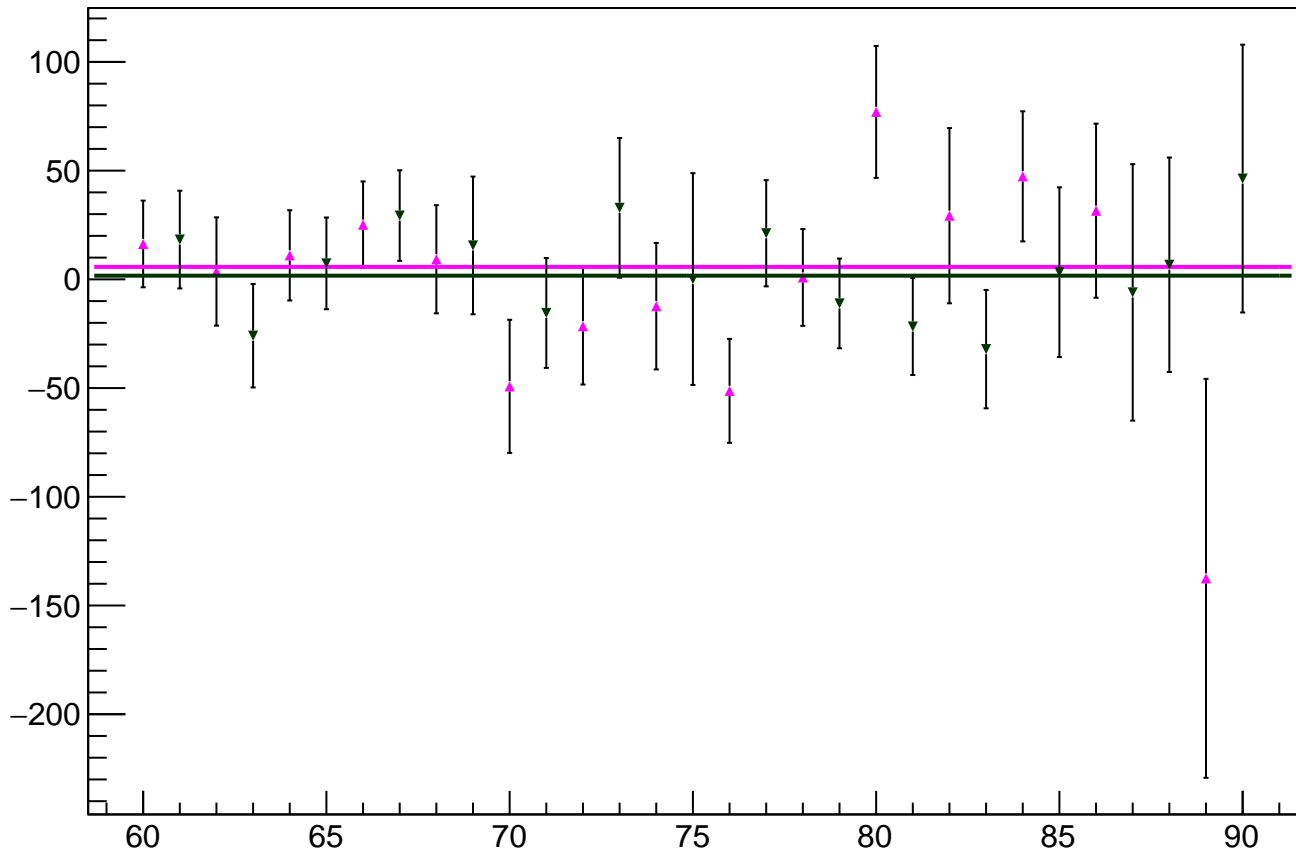
164.689+/-0.043  $\chi^2/\text{NDF}$ : 395008.7/15

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

Left In: 154.903+/-0.040  $\chi^2/\text{NDF}$ : 535555.4/14

154.903+/-0.040  $\chi^2/\text{NDF}$ : 535555.4/14

# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs slug



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

Left Out: 1.689+/-6.858  $\chi^2/\text{NDF}$ : 9.5/15

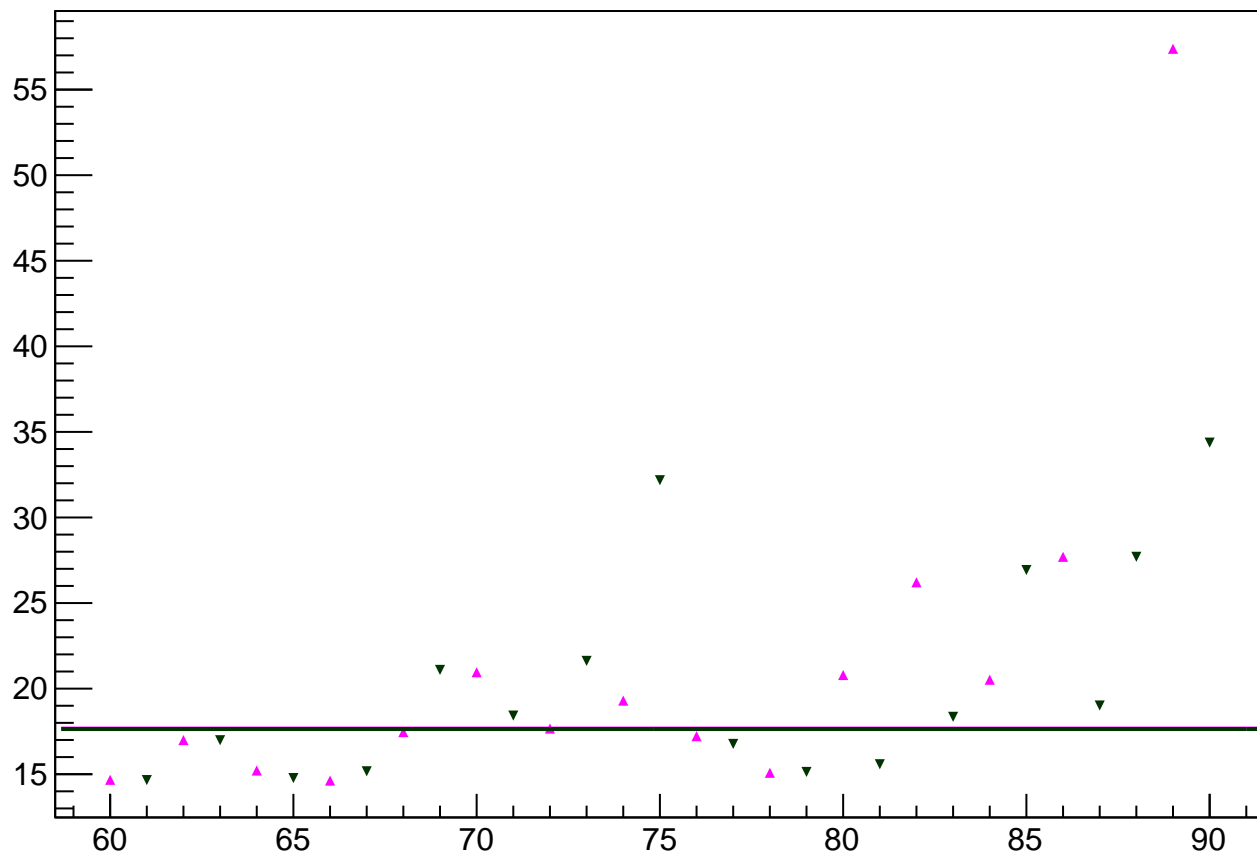
1.689+/-6.858  $\chi^2/\text{NDF}$ : 9.5/15

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

5.734+/-6.811  $\chi^2/\text{NDF}$ : 22.3/14

Left In: 5.734+/-6.811  $\chi^2/\text{NDF}$ : 22.3/14

# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

Left Out: 17.638+/-0.005  $\chi^2$ /NDF:732275.9/15

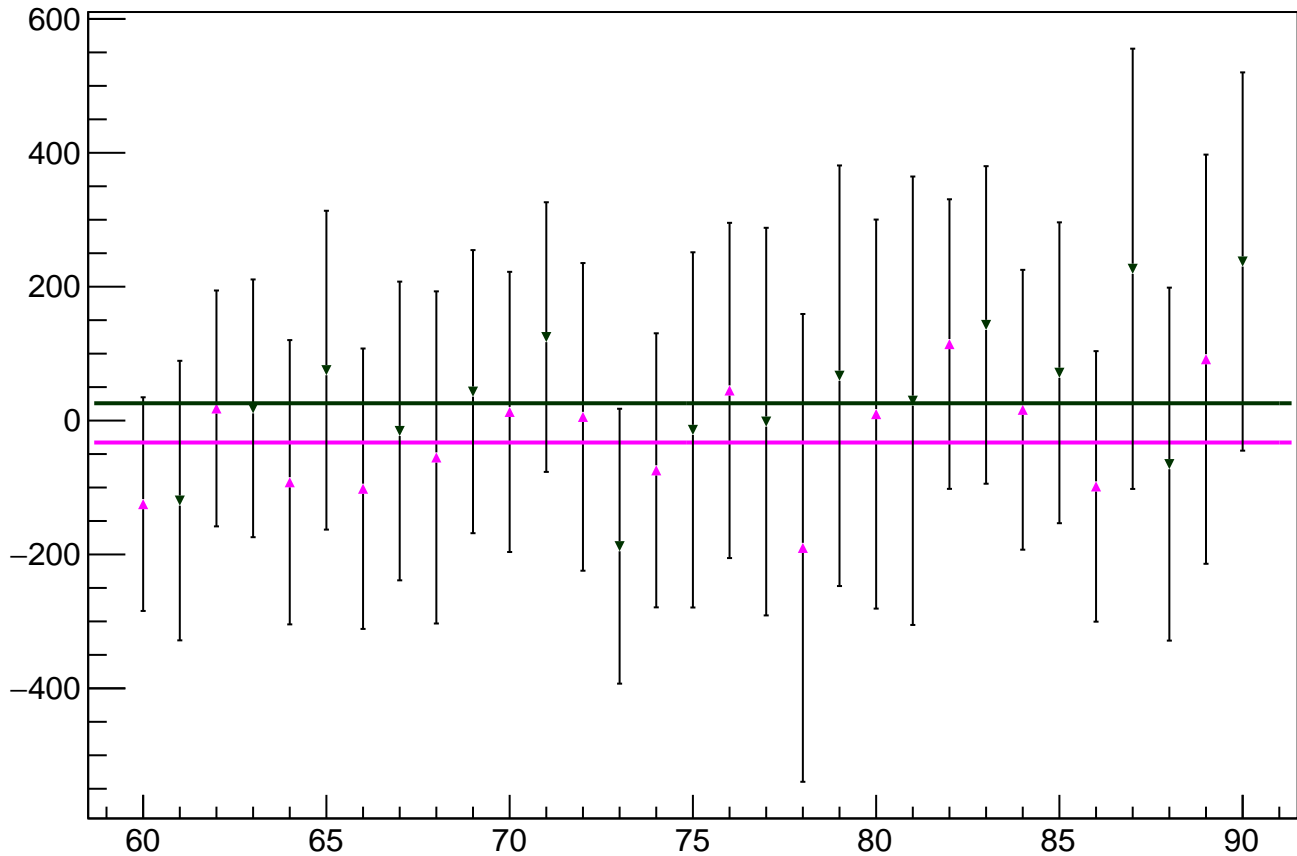
17.638+/-0.005  $\chi^2$ /NDF: 732275.9/15

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

17.666+/-0.005  $\chi^2$ /NDF: 808103.8/14

Left In: 17.666+/-0.005  $\chi^2$ /NDF:808103.8/14

# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs slug



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

Left Out: 25.878+/-60.052  $\chi^2/\text{NDF}$ :3.3/15

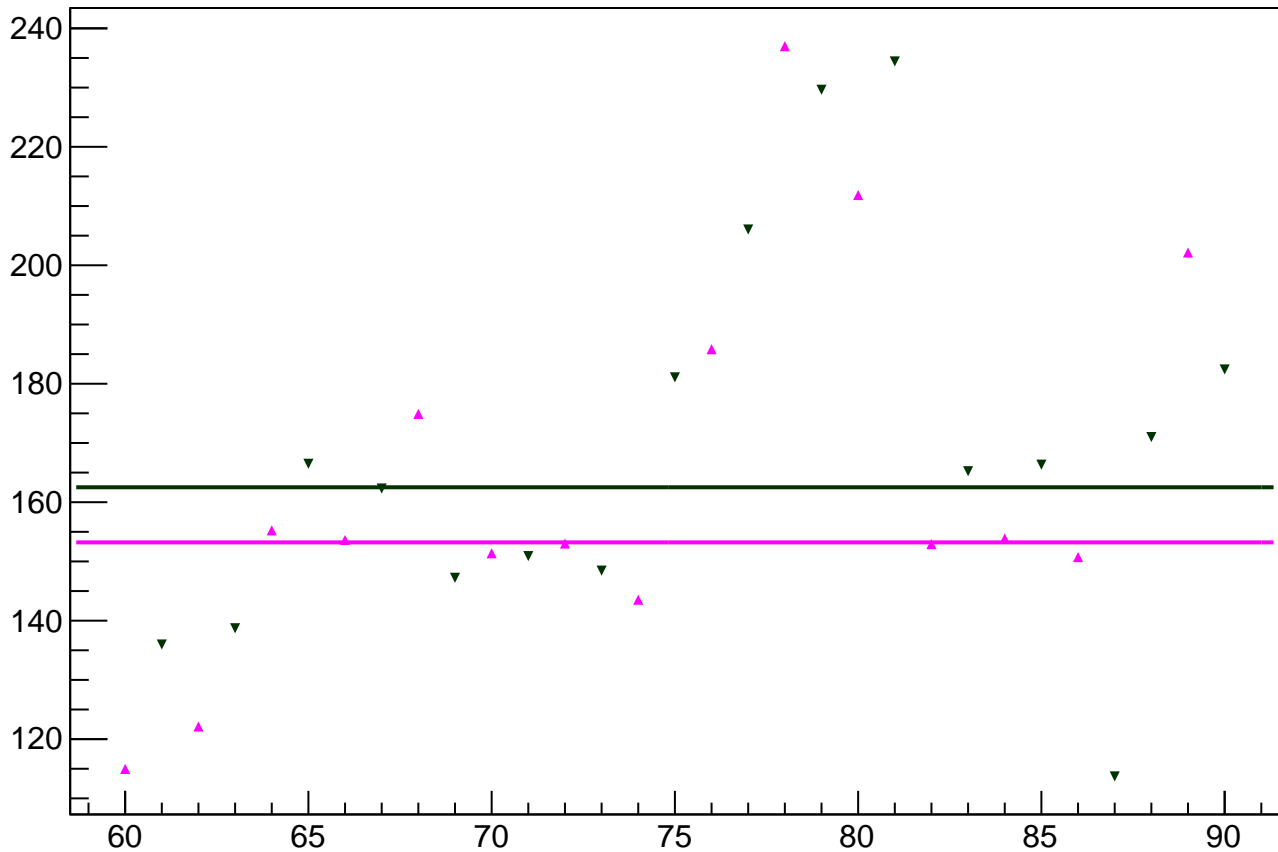
25.878+/-60.052  $\chi^2/\text{NDF}$ : 3.3/15

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

-32.777+/-56.454  $\chi^2/\text{NDF}$ : 1.8/14

Left In: -32.777+/-56.454  $\chi^2/\text{NDF}$ :1.8/14

# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs slug



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

Left Out: 162.520+/-0.042  $\chi^2/\text{NDF}$ : 385240.4/15

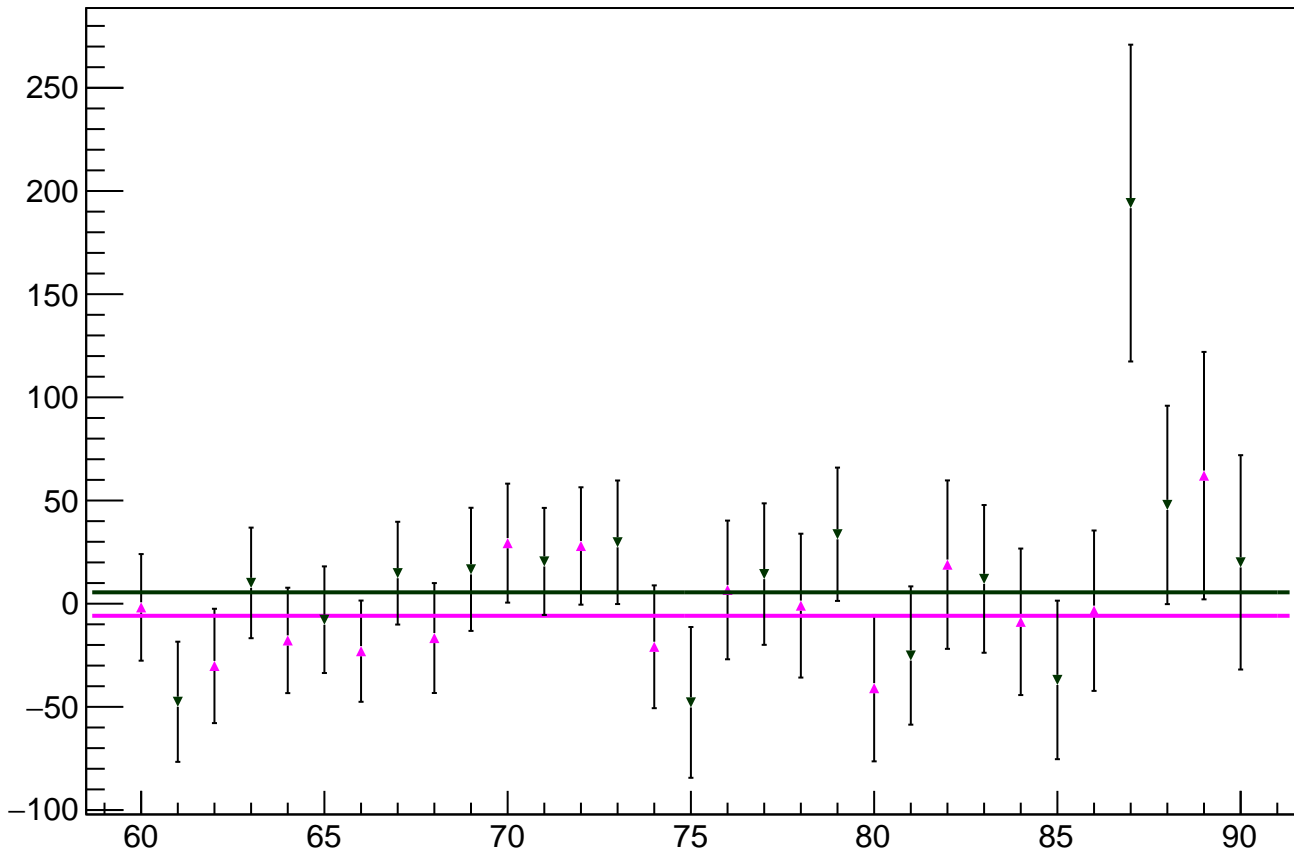
162.520+/-0.042  $\chi^2/\text{NDF}$ : 385240.4/15

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

Left In: 153.220+/-0.040  $\chi^2/\text{NDF}$ : 479140.1/14

153.220+/-0.040  $\chi^2/\text{NDF}$ : 479140.1/14

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: 5.508+/-8.088  $\chi^2$ /NDF:16.8/15

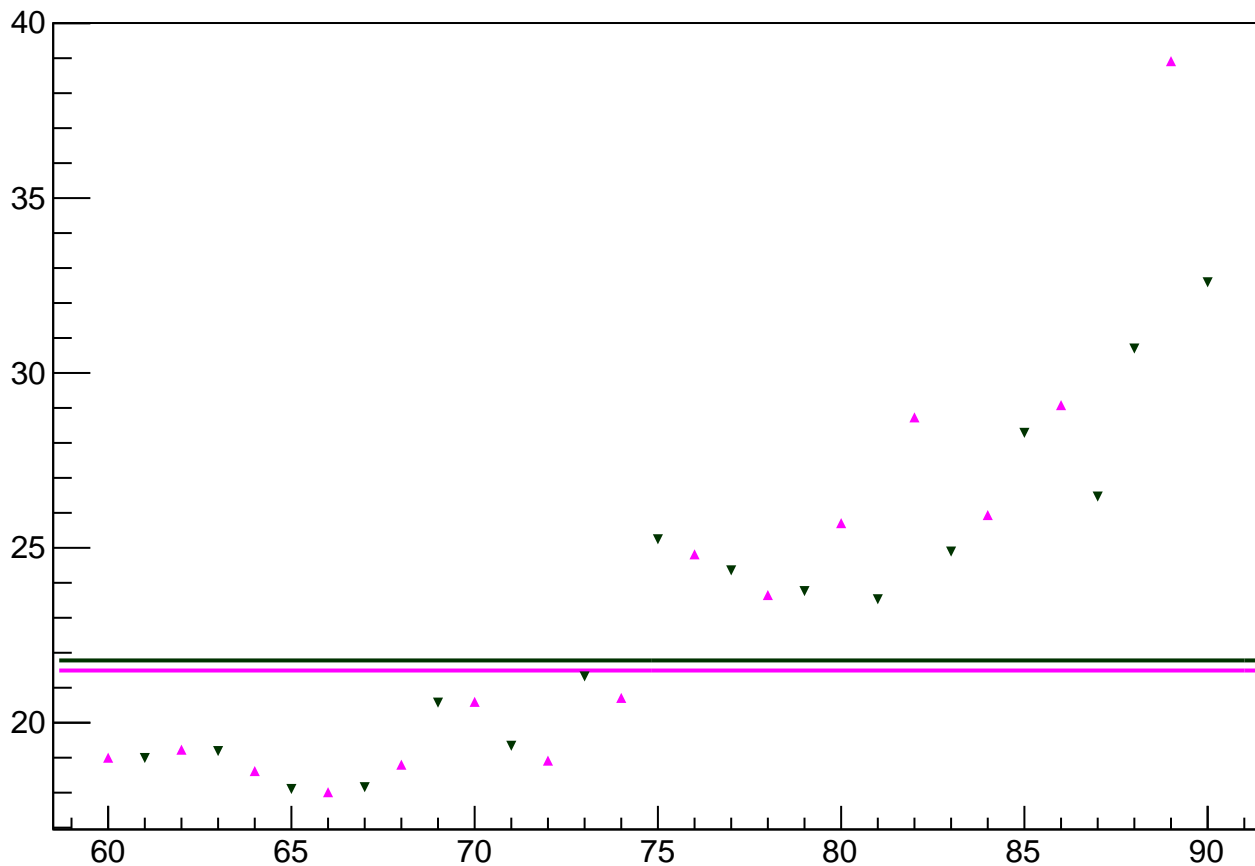
5.508+/-8.088  $\chi^2$ /NDF: 16.8/15

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

Left In: -5.862+/-7.953  $\chi^2$ /NDF:7.6/14

-5.862+/-7.953  $\chi^2$ /NDF: 7.6/14

# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 21.781+/-0.006  $\chi^2$ /NDF:418999.7/15

21.781+/-0.006  $\chi^2$ /NDF: 418999.7/15

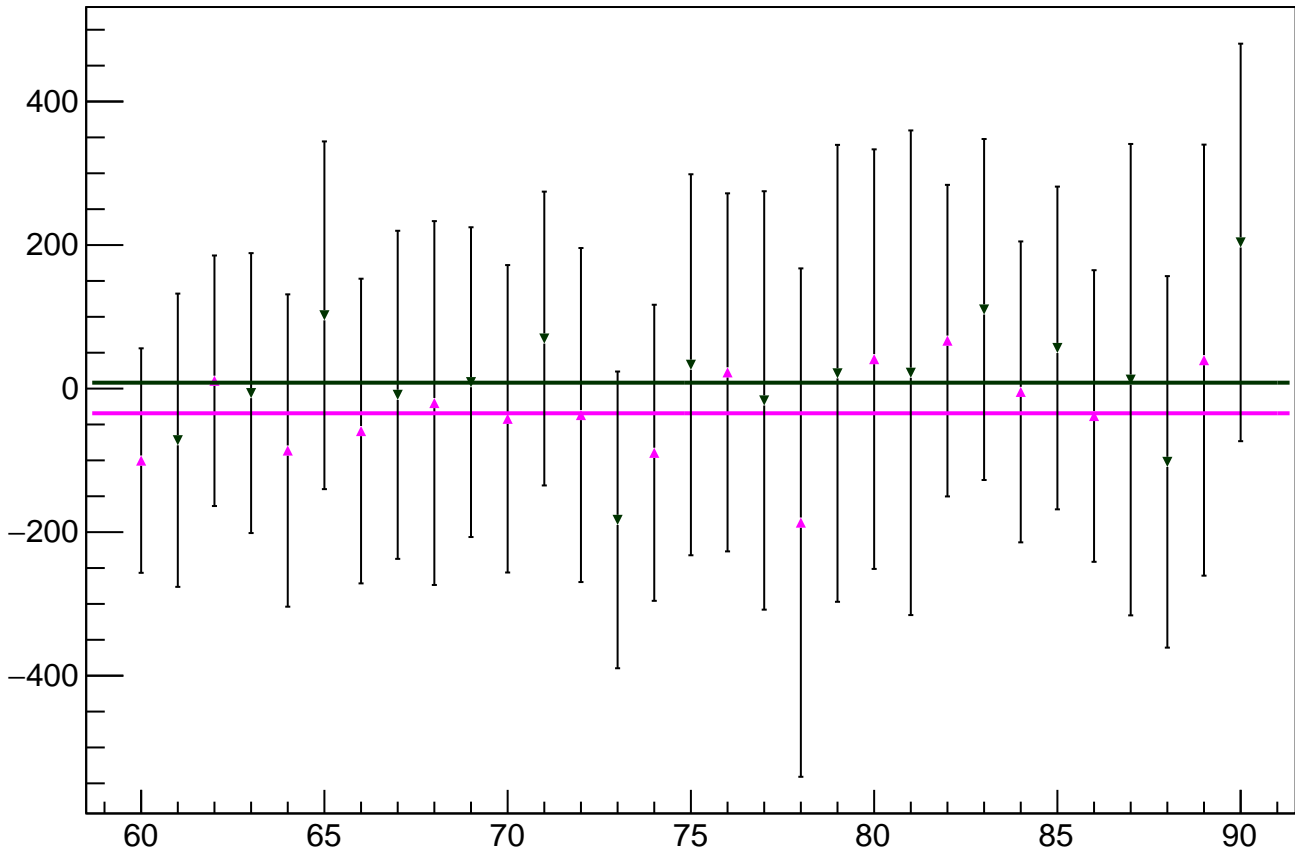
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 21.493+/-0.006  $\chi^2$ /NDF:532493.6/14

21.493+/-0.006  $\chi^2$ /NDF: 532493.6/14



# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs slug



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

8.250+/-60.355  $\chi^2/\text{NDF}$ : 2.2/15

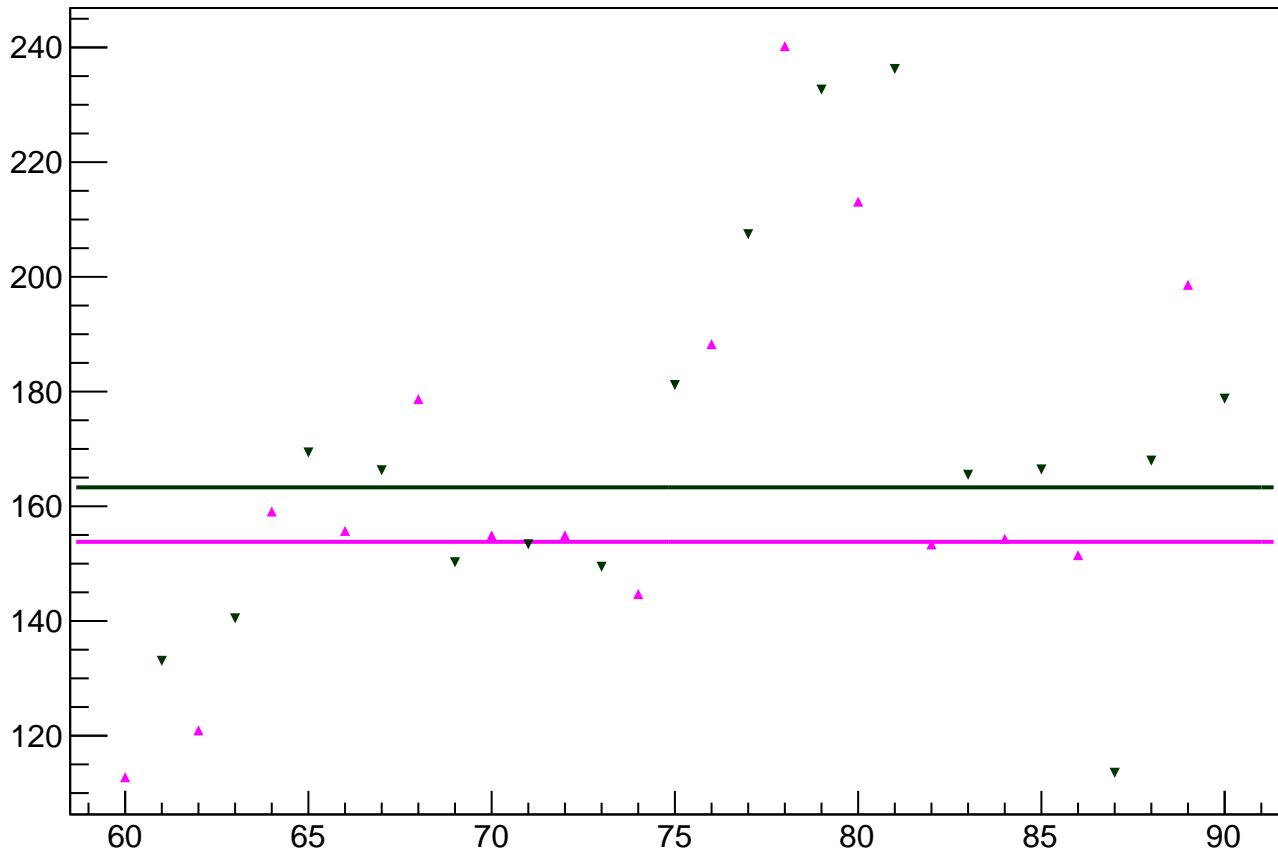
Left Out: 8.250+/-60.355  $\chi^2/\text{NDF}$ : 2.2/15

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

-34.374+/-56.669  $\chi^2/\text{NDF}$ : 1.0/14

Left In: -34.374+/-56.669  $\chi^2/\text{NDF}$ : 1.0/14

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs slug



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

Left Out: 163.303+/-0.043  $\chi^2$ /NDF:390400.5/15

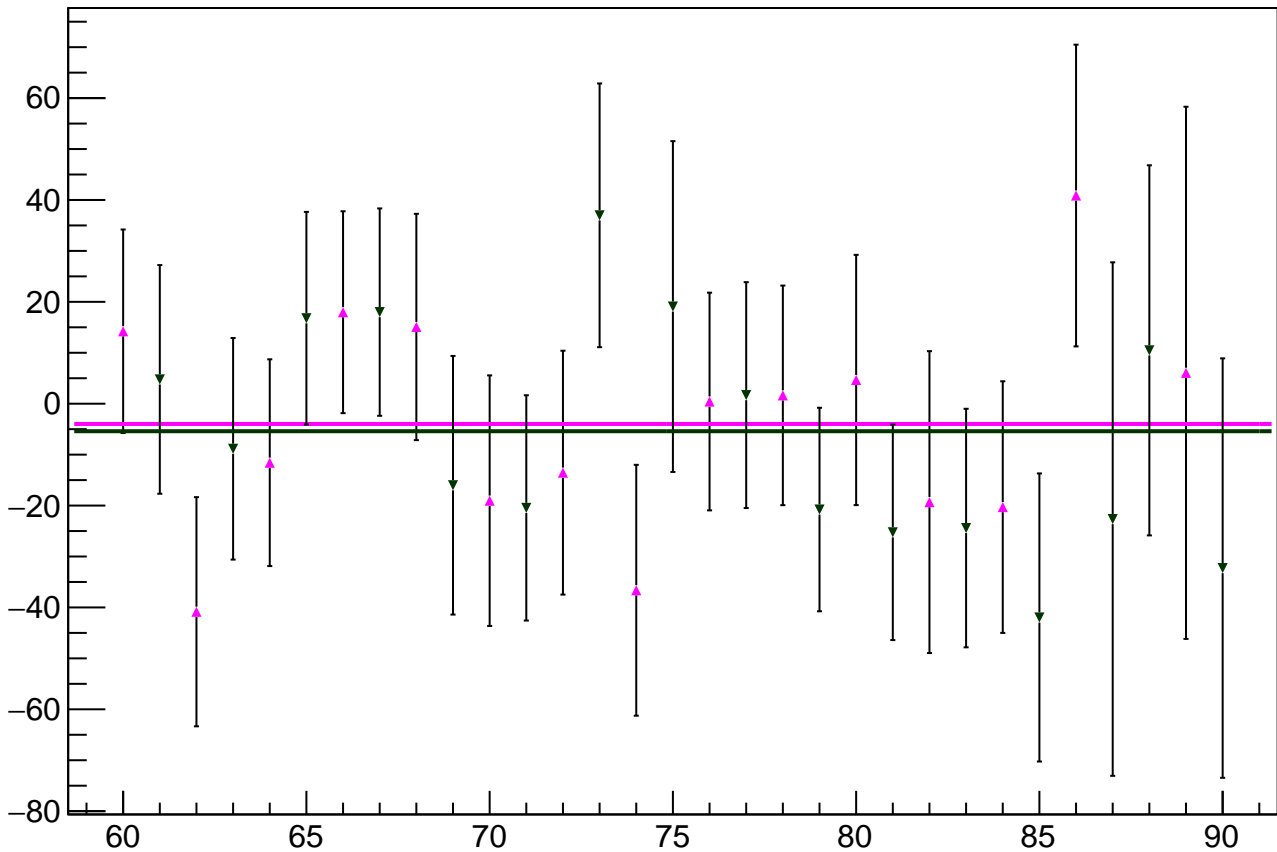
163.303+/-0.043  $\chi^2$ /NDF: 390400.5/15

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

Left In: 153.799+/-0.040  $\chi^2$ /NDF:517629.2/14

153.799+/-0.040  $\chi^2$ /NDF: 517629.2/14

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: -5.403+/-6.151  $\chi^2$ /NDF:11.2/15

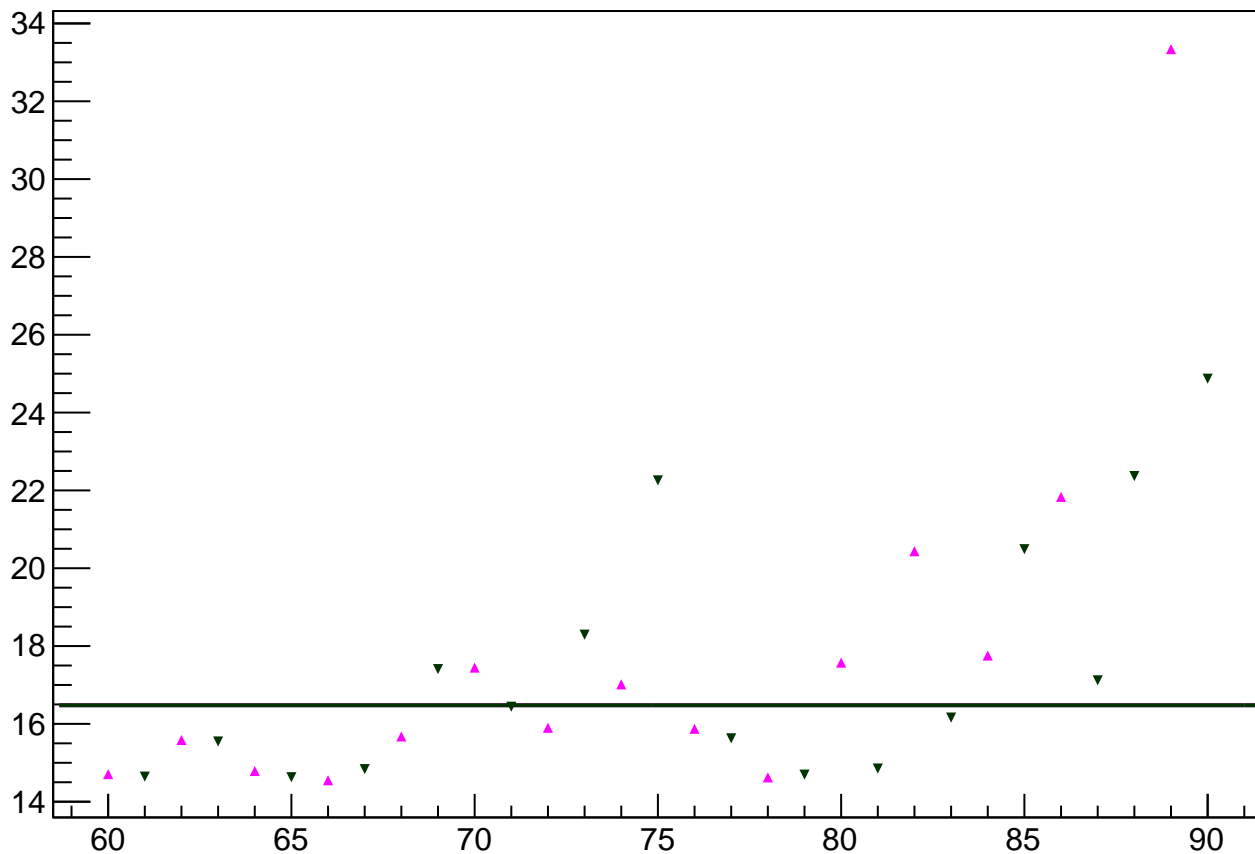
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -3.979+/-6.107  $\chi^2$ /NDF:11.2/14

-5.403+/-6.151  $\chi^2$ /NDF: 11.2/15

-3.979+/-6.107  $\chi^2$ /NDF: 11.2/14

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 16.479+/-0.004  $\chi^2/\text{NDF}$ : 328771.3/15

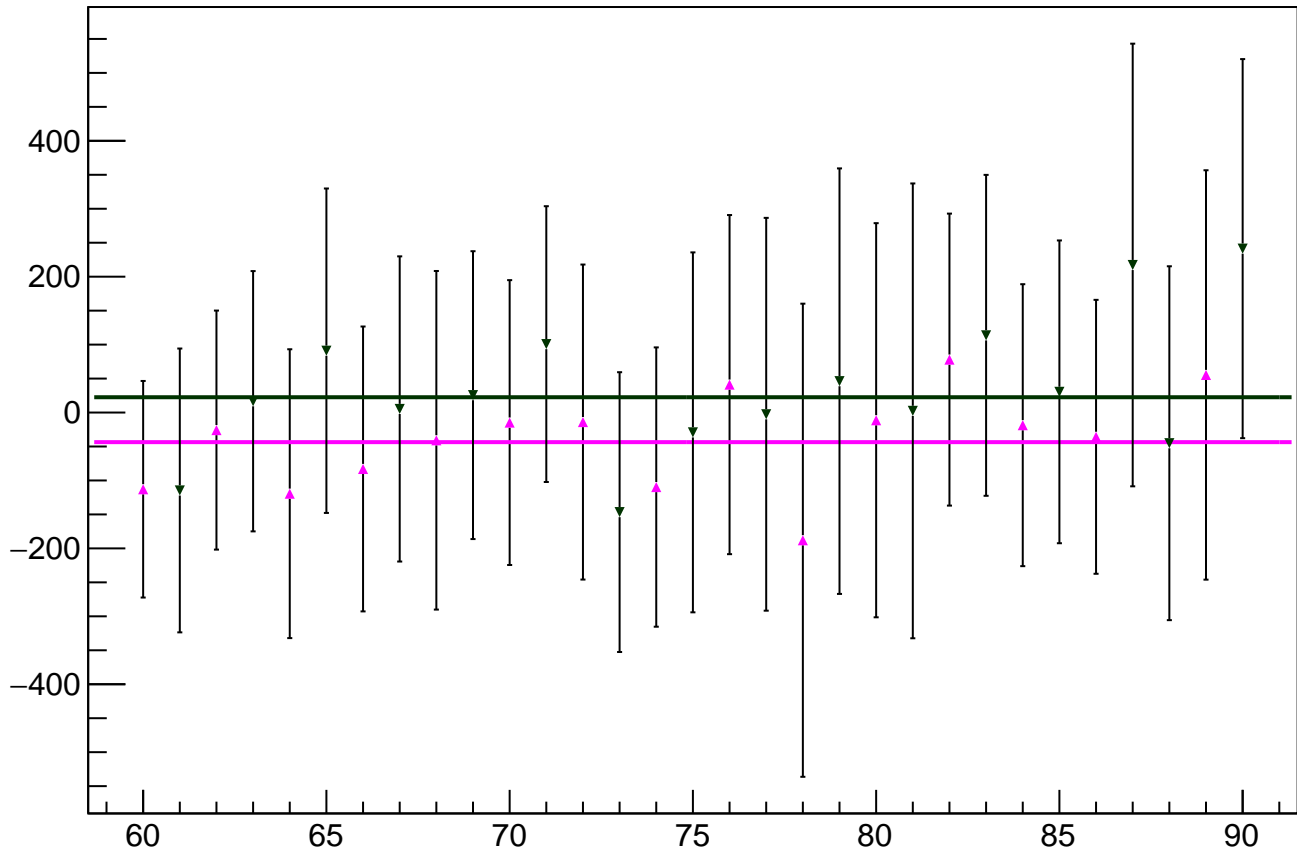
16.479+/-0.004  $\chi^2/\text{NDF}$ : 328771.3/15

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

16.480+/-0.004  $\chi^2/\text{NDF}$ : 394542.8/14

Left In: 16.480+/-0.004  $\chi^2/\text{NDF}$ : 394542.8/14

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



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

22.525+/-59.977  $\chi^2/\text{NDF}$ : 2.6/15

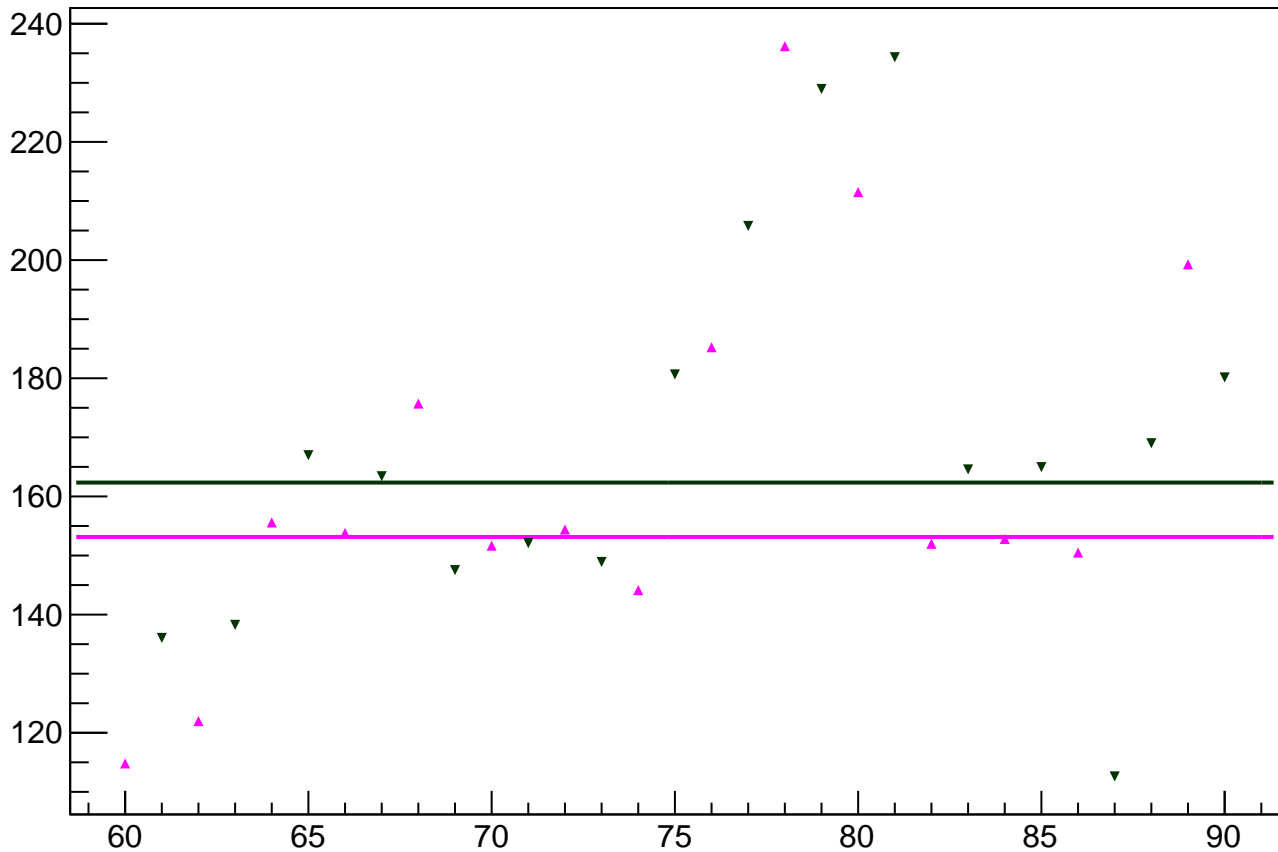
Left Out: 22.525+/-59.977  $\chi^2/\text{NDF}$ : 2.6/15

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

-43.591+/-56.410  $\chi^2/\text{NDF}$ : 1.2/14

Left In: -43.591+/-56.410  $\chi^2/\text{NDF}$ : 1.2/14

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



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

Left Out: 162.347+/-0.042  $\chi^2$ /NDF:381557.2/15

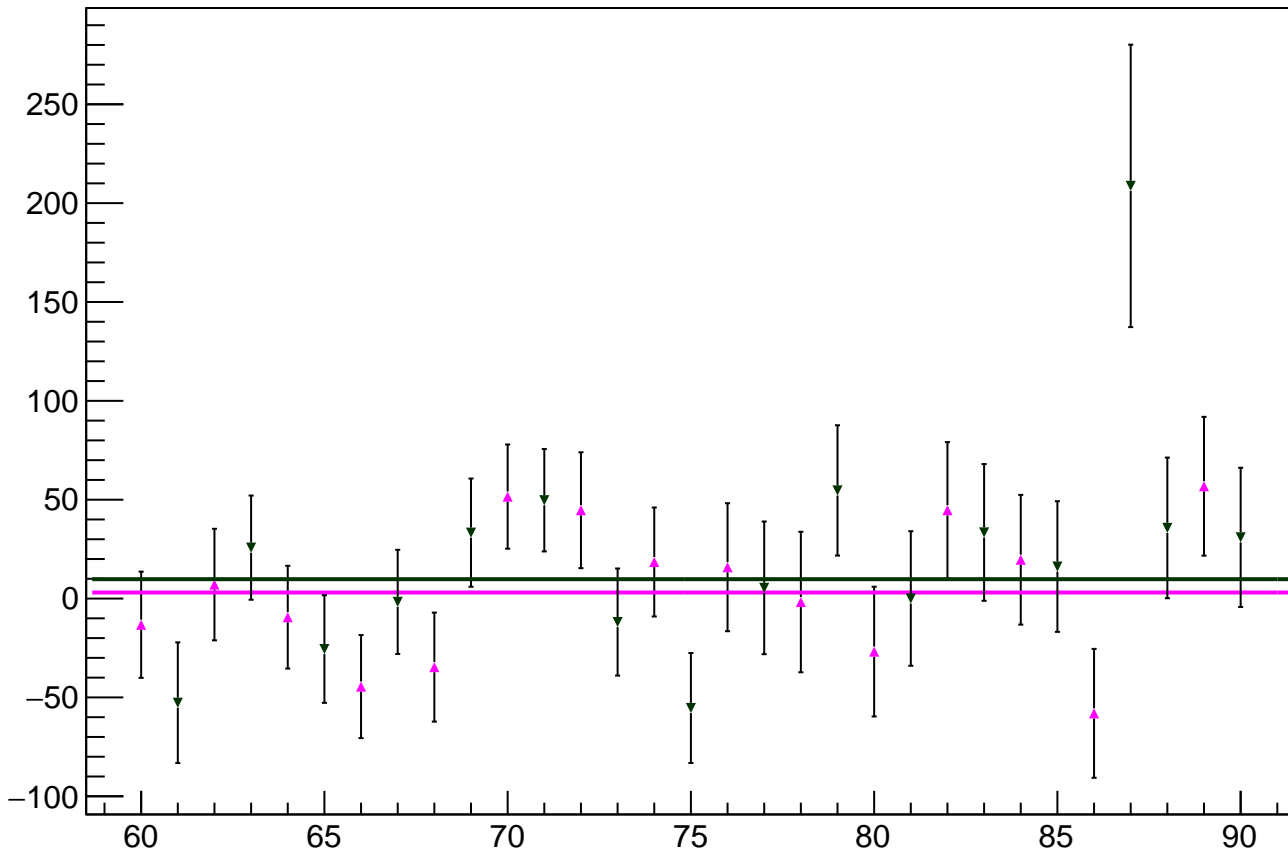
162.347+/-0.042  $\chi^2$ /NDF: 381557.2/15

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

Left In: 153.143+/-0.040  $\chi^2$ /NDF:474171.0/14

153.143+/-0.040  $\chi^2$ /NDF: 474171.0/14

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



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

Left Out: 9.801+/-7.668  $\chi^2$ /NDF:26.8/15

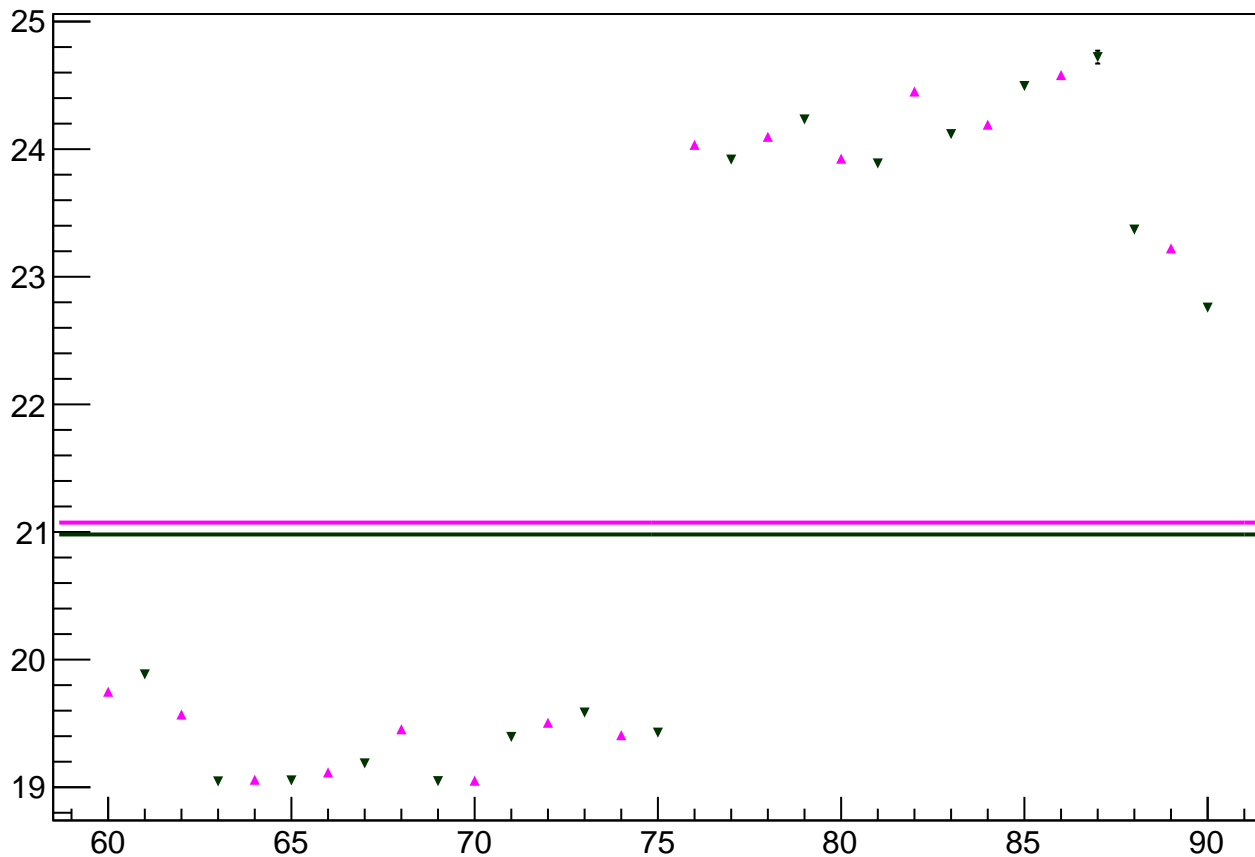
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3.068+/-7.663  $\chi^2$ /NDF:20.1/14

9.801+/-7.668  $\chi^2$ /NDF: 26.8/15

3.068+/-7.663  $\chi^2$ /NDF: 20.1/14

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



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

Left Out: 20.981+/-0.005  $\chi^2/\text{NDF}$ : 169782.8/15

20.981+/-0.005  $\chi^2/\text{NDF}$ : 169782.8/15

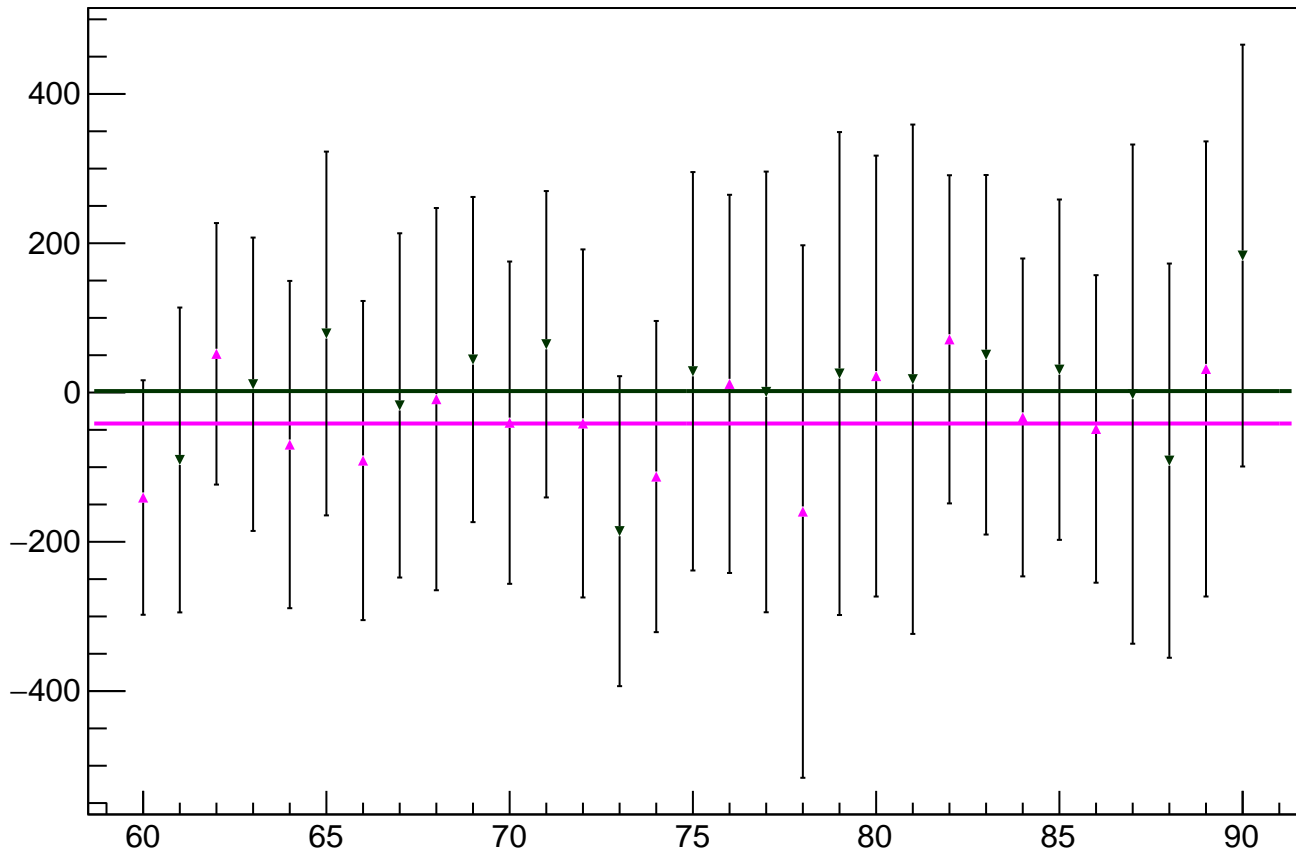
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 21.074+/-0.005  $\chi^2/\text{NDF}$ : 179809.1/14

21.074+/-0.005  $\chi^2/\text{NDF}$ : 179809.1/14



# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs slug



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

Left Out: 1.938+/-60.919  $\chi^2/\text{NDF}$ : 1.9/15

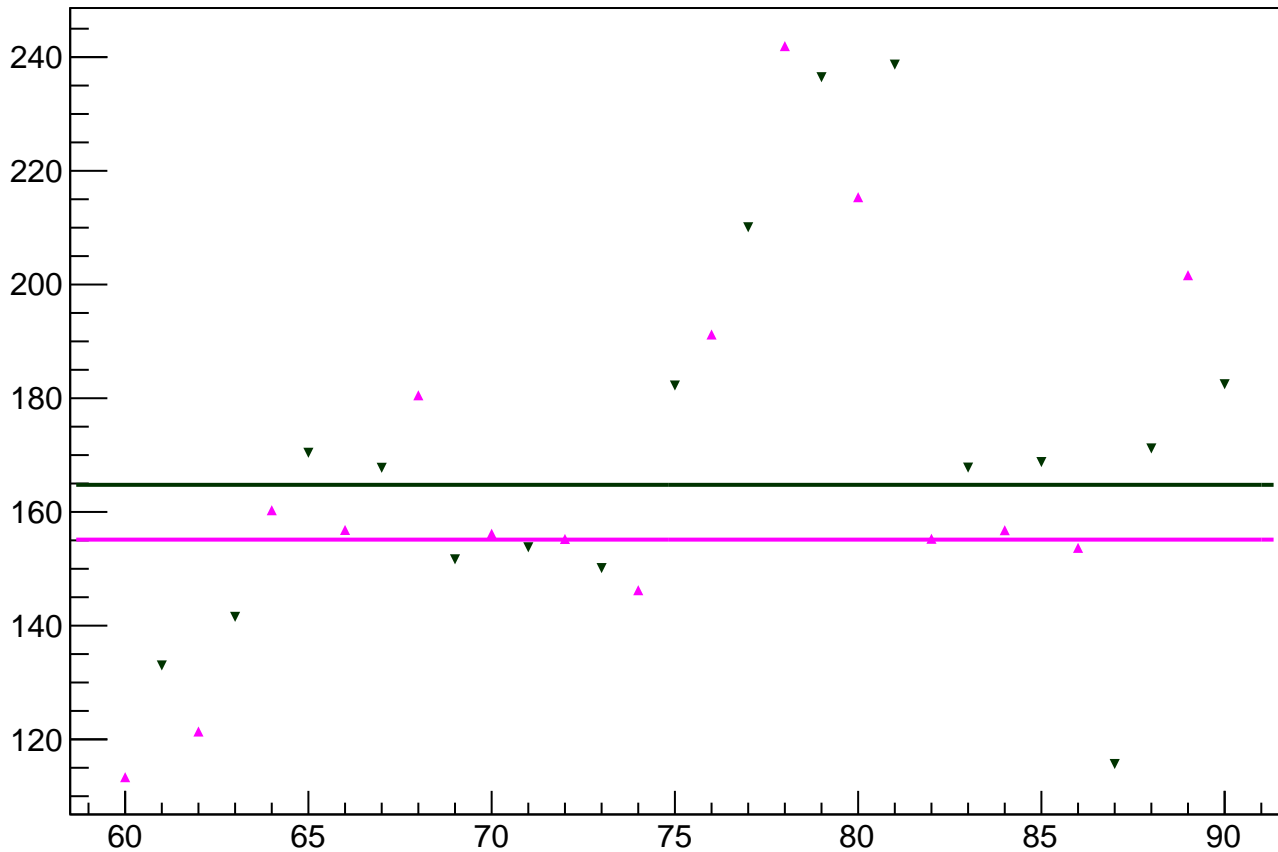
1.938+/-60.919  $\chi^2/\text{NDF}$ : 1.9/15

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

-41.517+/-57.178  $\chi^2/\text{NDF}$ : 1.4/14

Left In: -41.517+/-57.178  $\chi^2/\text{NDF}$ : 1.4/14

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs slug



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

Left Out: 164.768+/-0.043  $\chi^2/\text{NDF}$ : 401487.3/15

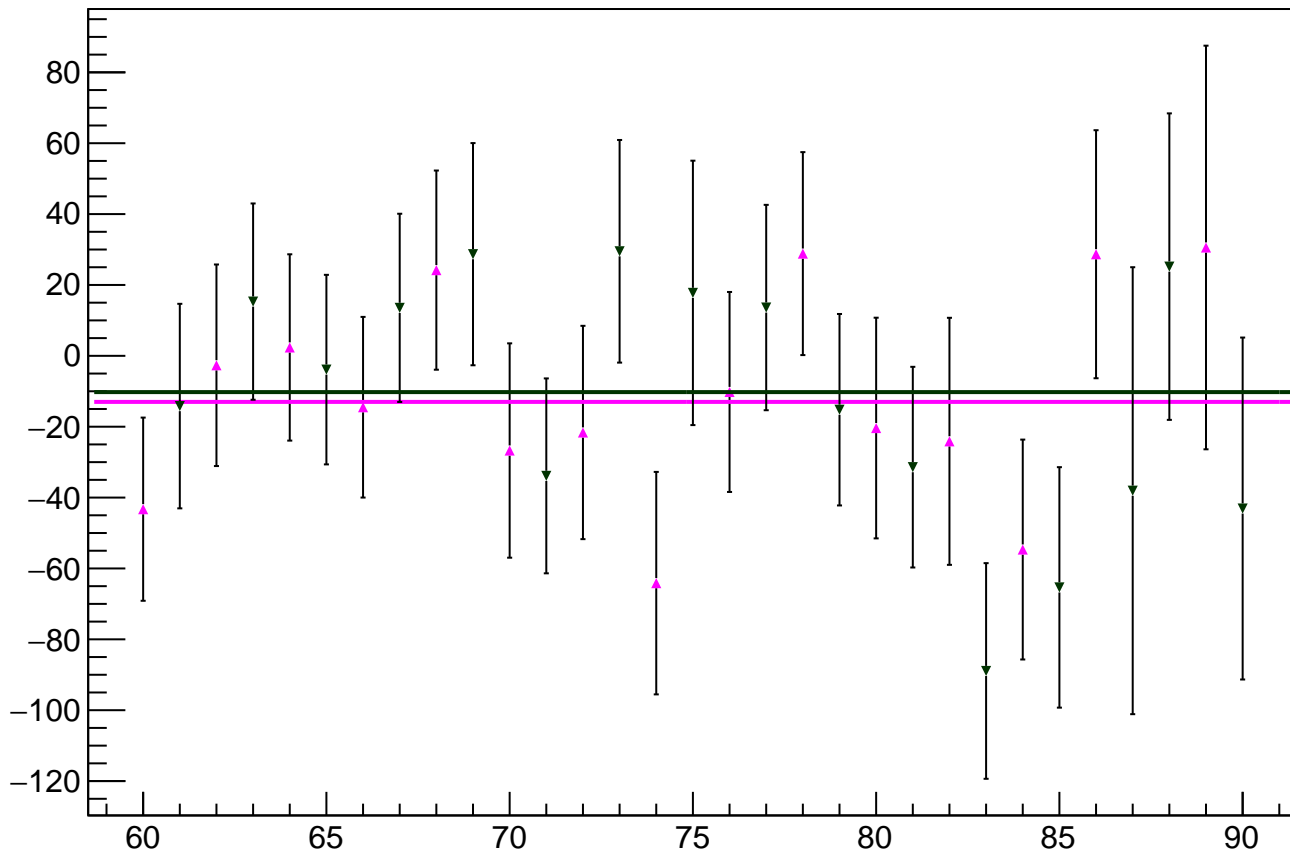
164.768+/-0.043  $\chi^2/\text{NDF}$ : 401487.3/15

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

Left In: 155.132+/-0.040  $\chi^2/\text{NDF}$ : 529256.9/14

155.132+/-0.040  $\chi^2/\text{NDF}$ : 529256.9/14

# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: -10.234+/-7.817  $\chi^2$ /NDF:18.1/15

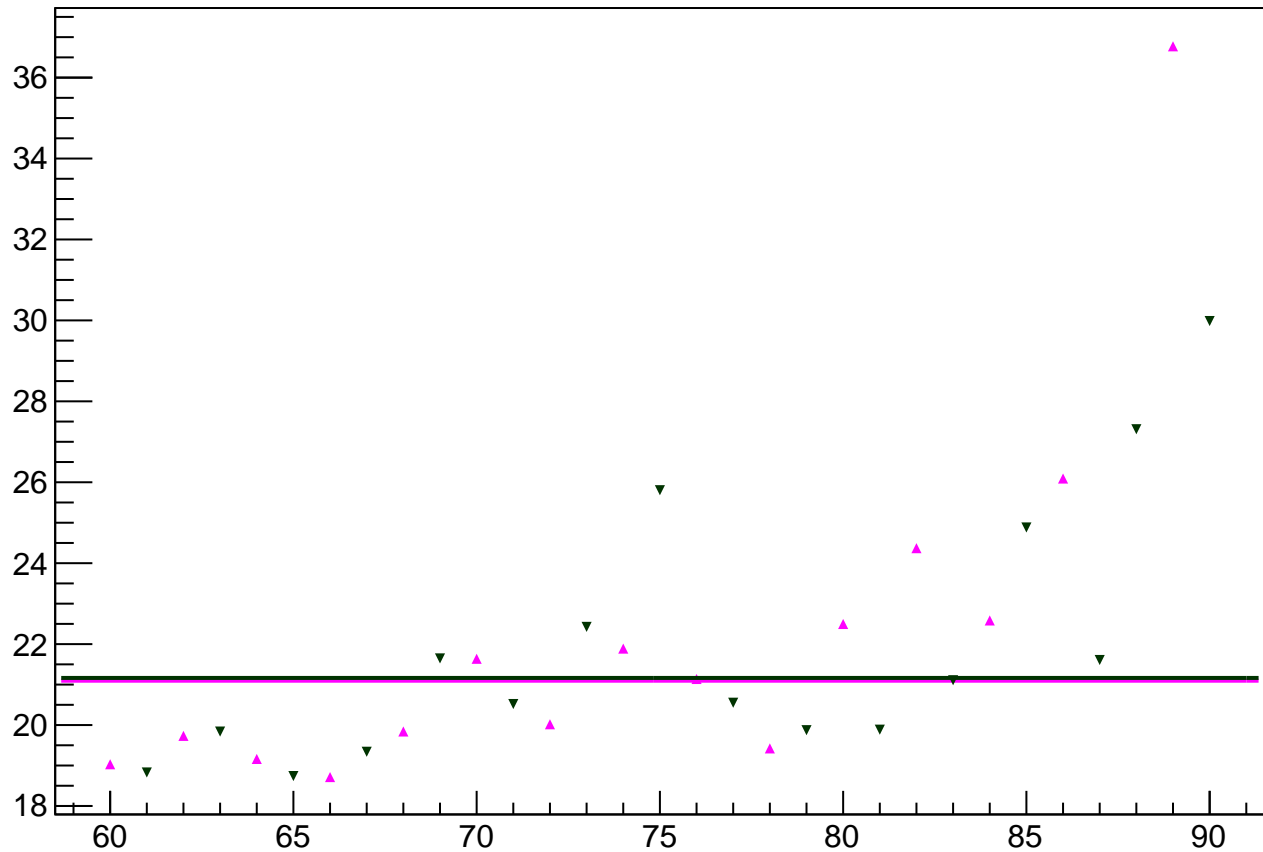
-10.234+/-7.817  $\chi^2$ /NDF: 18.1/15

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

Left In: -13.001+/-7.740  $\chi^2$ /NDF:12.7/14

-13.001+/-7.740  $\chi^2$ /NDF: 12.7/14

# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 21.164+/-0.006  $\chi^2$ /NDF:220190.5/15

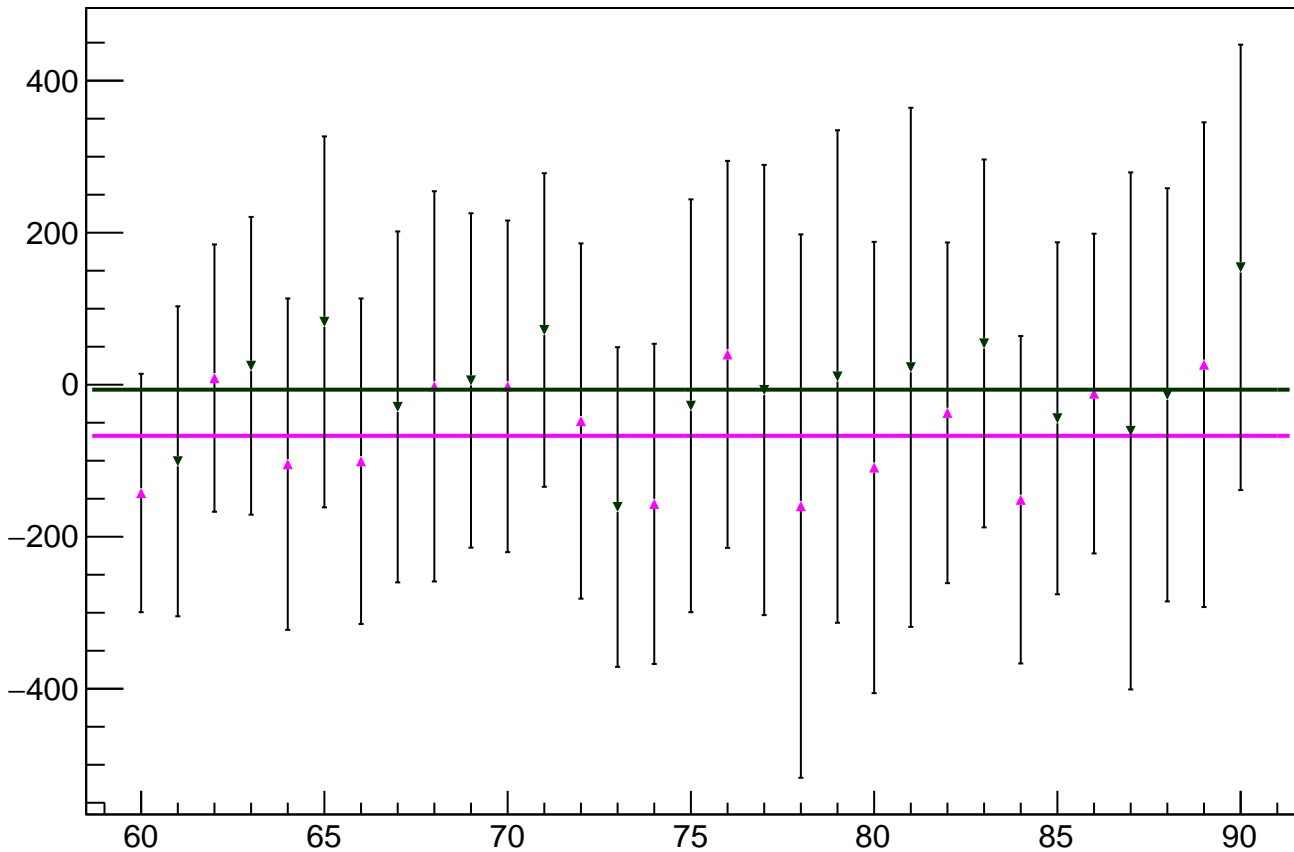
21.164+/-0.006  $\chi^2$ /NDF: 220190.5/15

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

21.096+/-0.005  $\chi^2$ /NDF: 279562.4/14

Left In: 21.096+/-0.005  $\chi^2$ /NDF:279562.4/14

# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs slug



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

-6.510+/-61.420  $\chi^2/NDF: 1.5/15$

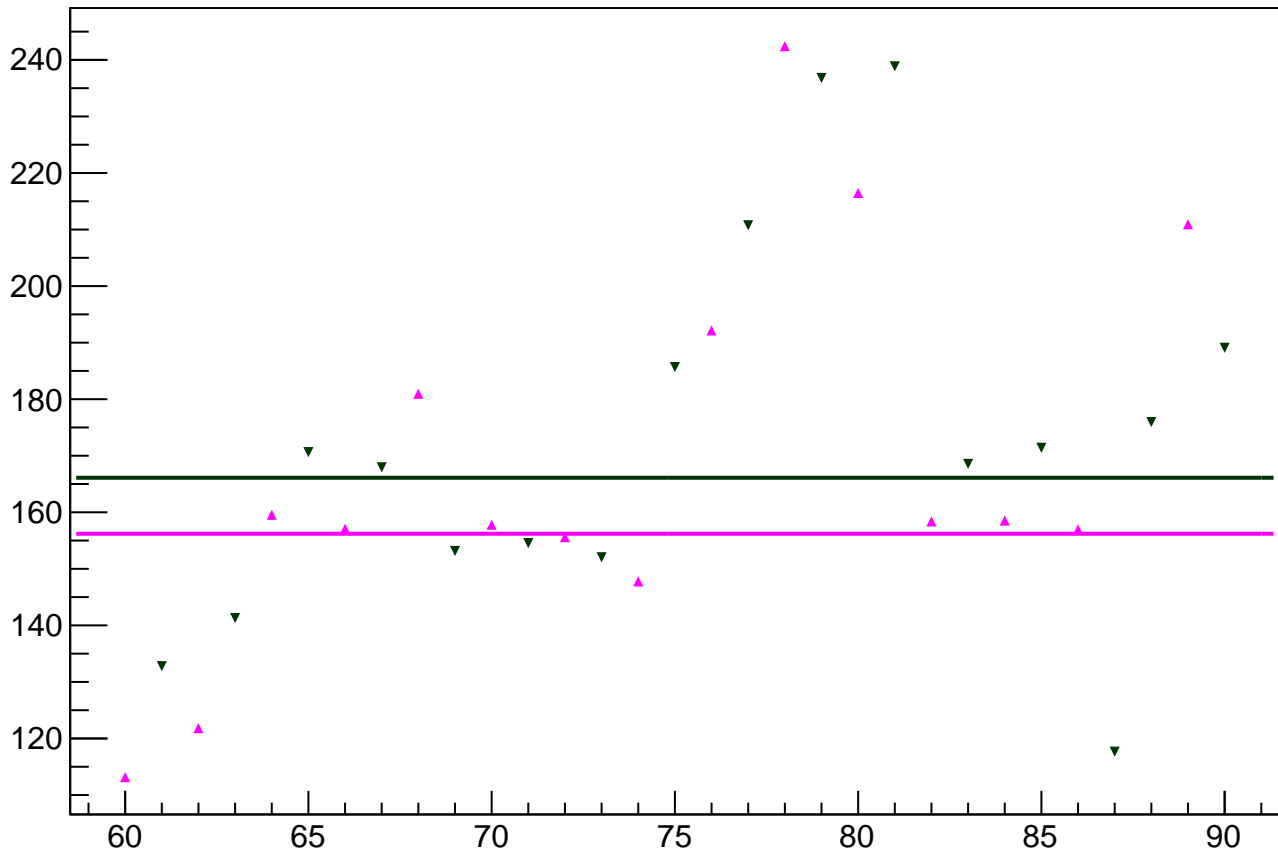
Left Out: -6.510+/-61.420  $\chi^2/NDF: 1.5/15$

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

-67.234+/-57.602  $\chi^2/NDF: 1.4/14$

Left In: -67.234+/-57.602  $\chi^2/NDF: 1.4/14$

# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 166.109+/-0.043  $\chi^2/\text{NDF}$ : 407068.0/15

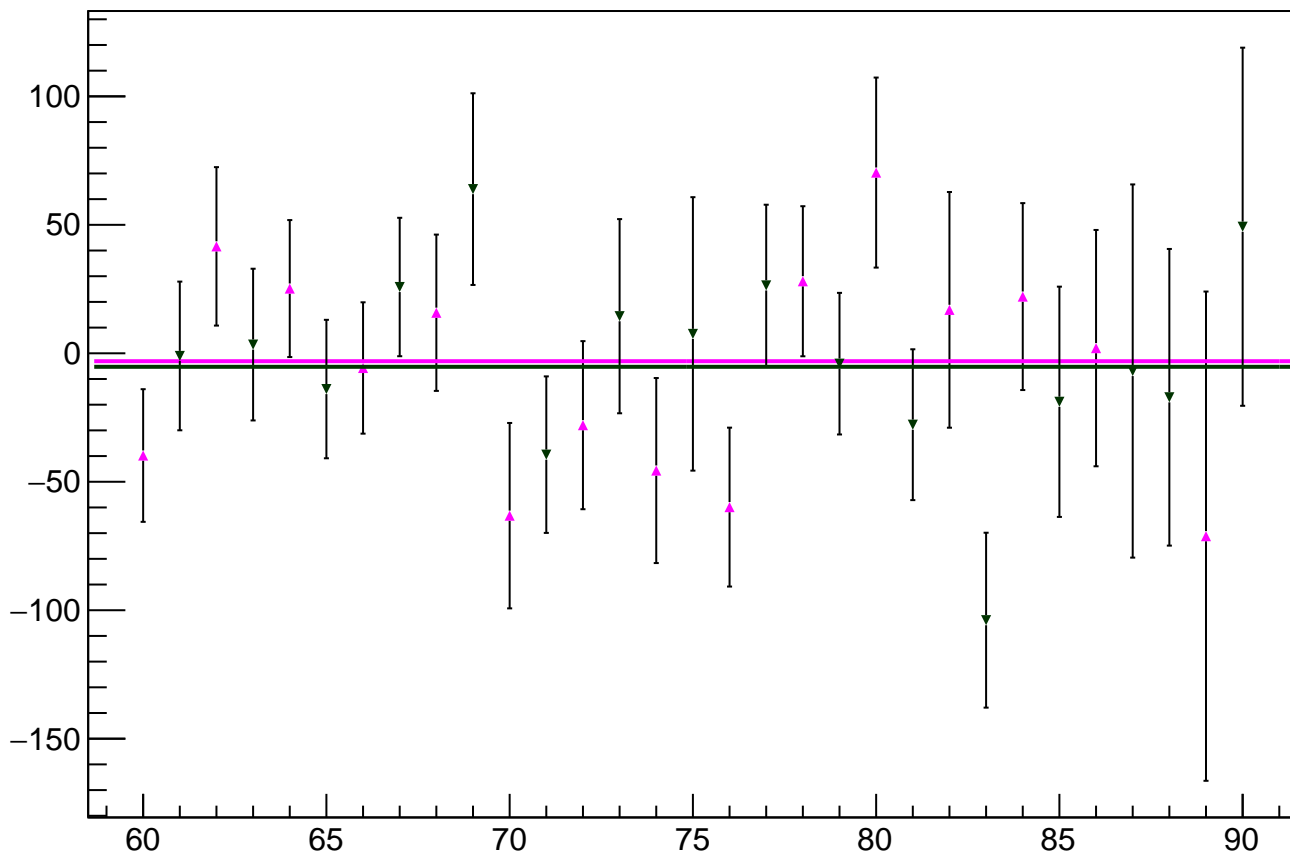
166.109+/-0.043  $\chi^2/\text{NDF}$ : 407068.0/15

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

156.203+/-0.041  $\chi^2/\text{NDF}$ : 547660.9/14

Left In: 156.203+/-0.041  $\chi^2/\text{NDF}$ : 547660.9/14

# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs slug



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

Left Out: -5.253+/-8.608  $\chi^2$ /NDF:17.3/15

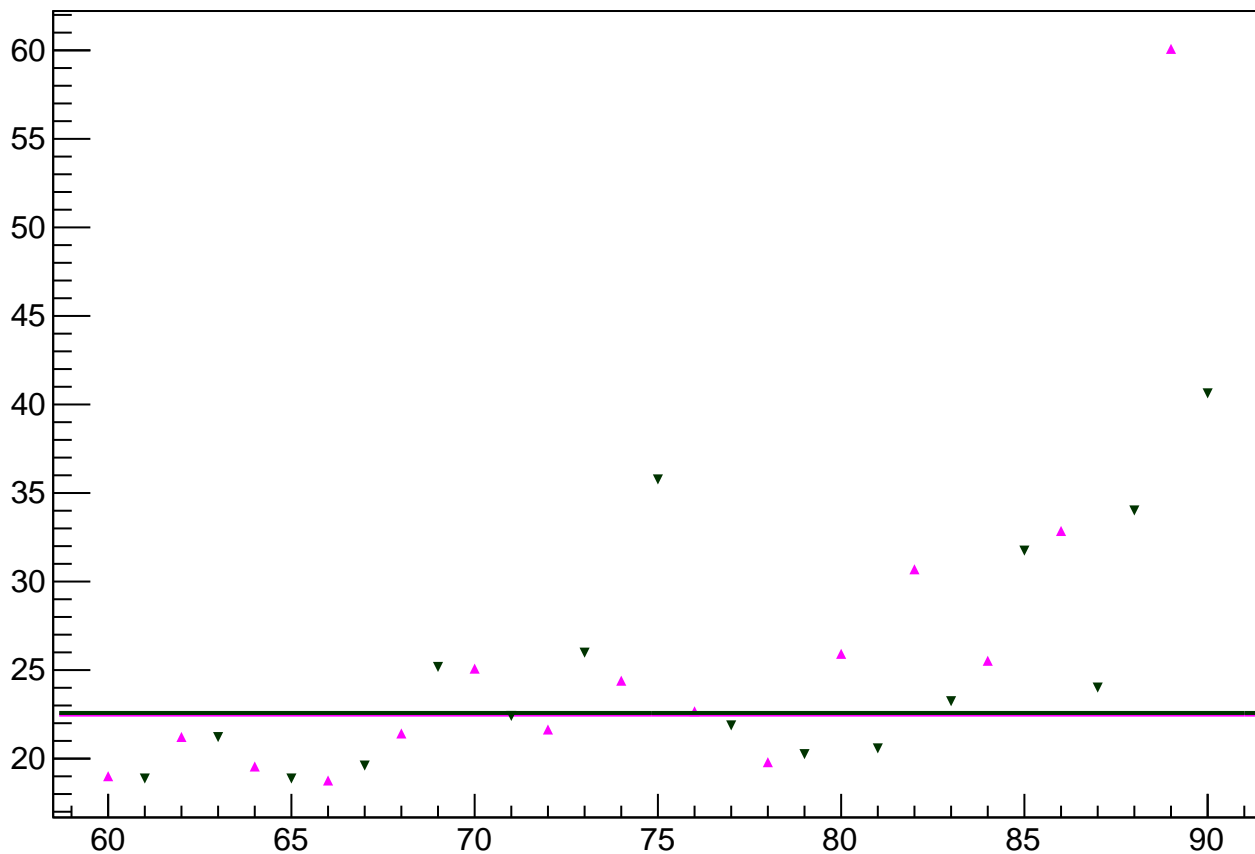
-5.253+/-8.608  $\chi^2$ /NDF: 17.3/15

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

Left In: -3.078+/-8.510  $\chi^2$ /NDF:20.0/14

-3.078+/-8.510  $\chi^2$ /NDF: 20.0/14

# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

Left Out: 22.579+/-0.006  $\chi^2/\text{NDF}$ : 570311.9/15

22.579+/-0.006  $\chi^2/\text{NDF}$ : 570311.9/15

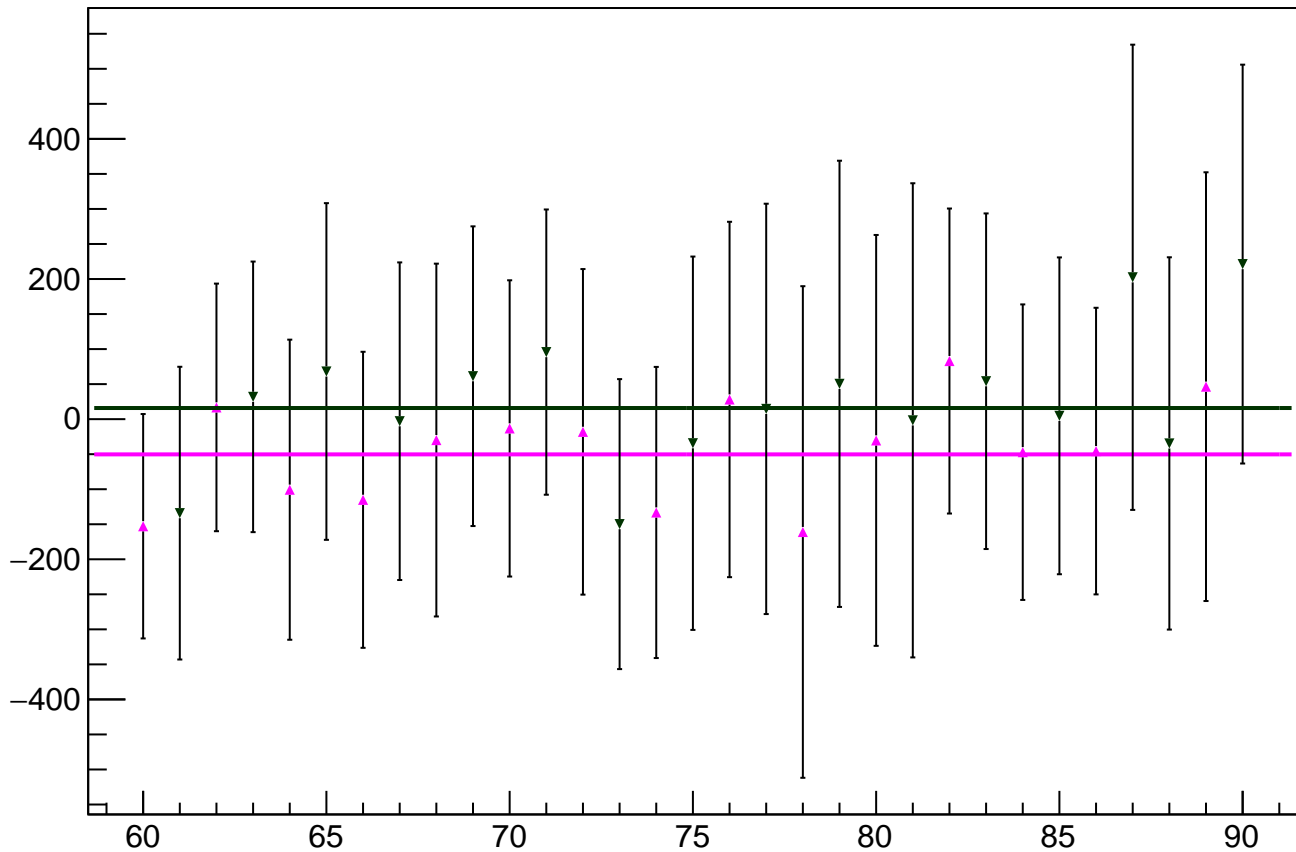
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 22.484+/-0.006  $\chi^2/\text{NDF}$ : 651807.7/14

22.484+/-0.006  $\chi^2/\text{NDF}$ : 651807.7/14



asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs slug



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

Left Out: 15.894+/-60.544  $\chi^2/\text{NDF}$ :2.4/15

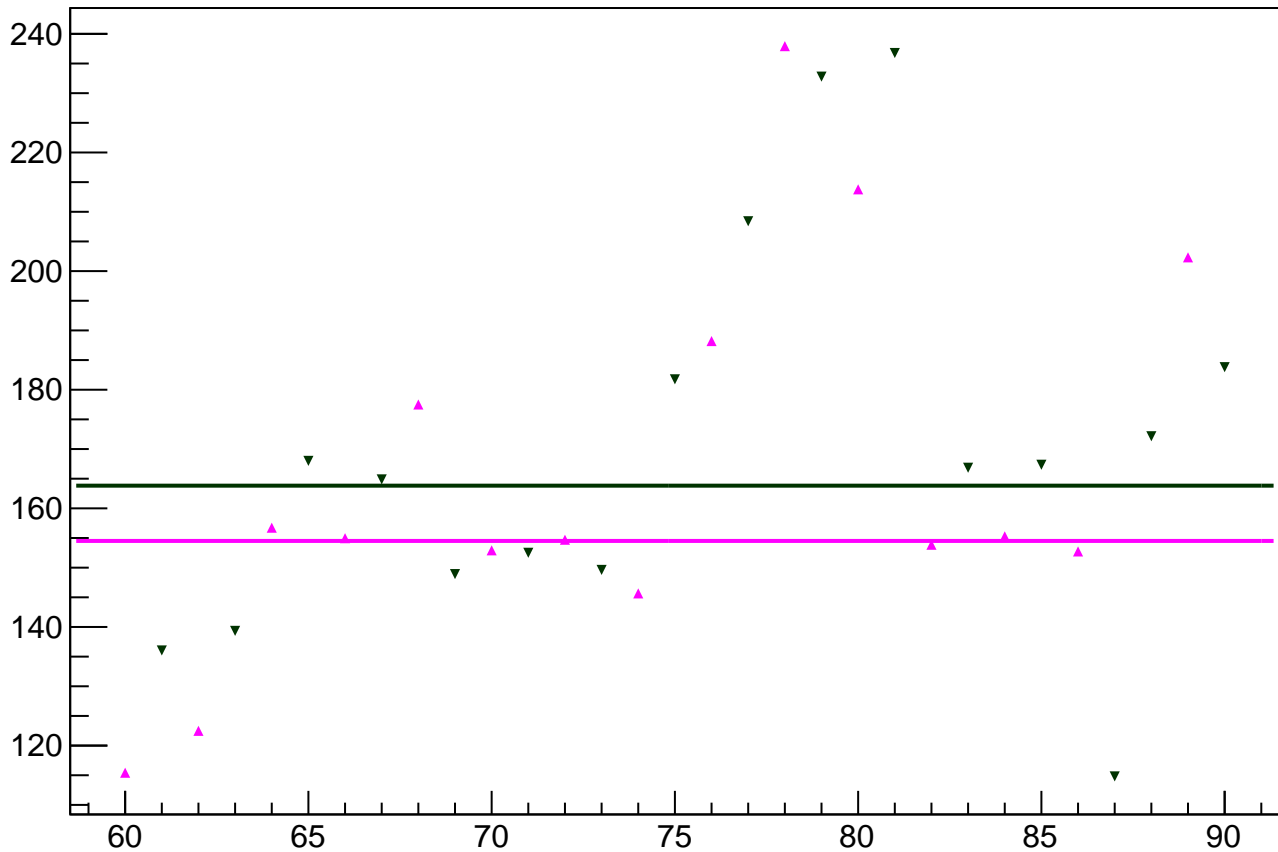
15.894+/-60.544  $\chi^2/\text{NDF}$ : 2.4/15

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

-50.273+/-56.928  $\chi^2/\text{NDF}$ : 1.6/14

Left In: -50.273+/-56.928  $\chi^2/\text{NDF}$ :1.6/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs slug



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

Left Out: 163.825+/-0.043  $\chi^2/\text{NDF}$ : 391921.7/15

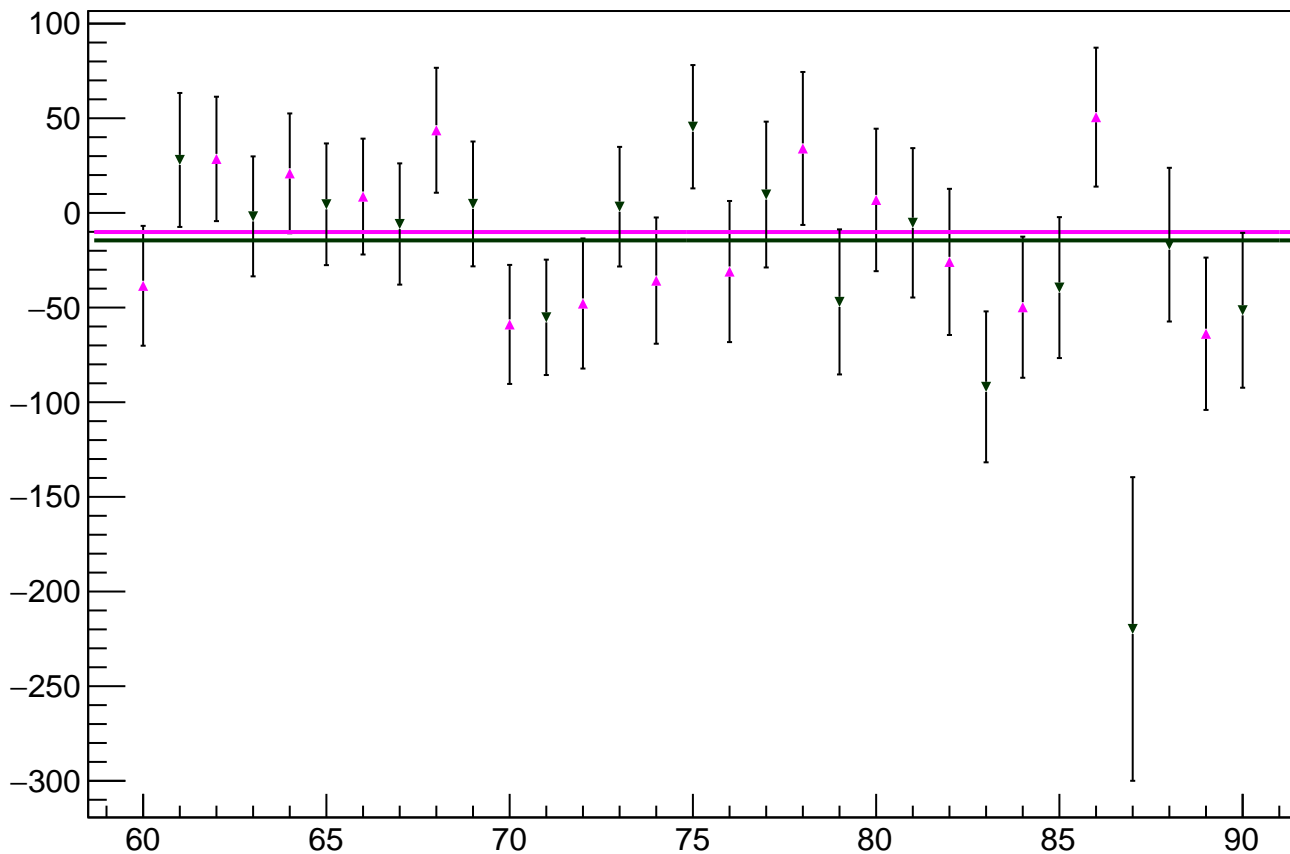
163.825+/-0.043  $\chi^2/\text{NDF}$ : 391921.7/15

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

154.506+/-0.040  $\chi^2/\text{NDF}$ : 484648.9/14

Left In: 154.506+/-0.040  $\chi^2/\text{NDF}$ : 484648.9/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs slug



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

Left Out: -14.519+/-8.985  $\chi^2$ /NDF:20.6/15

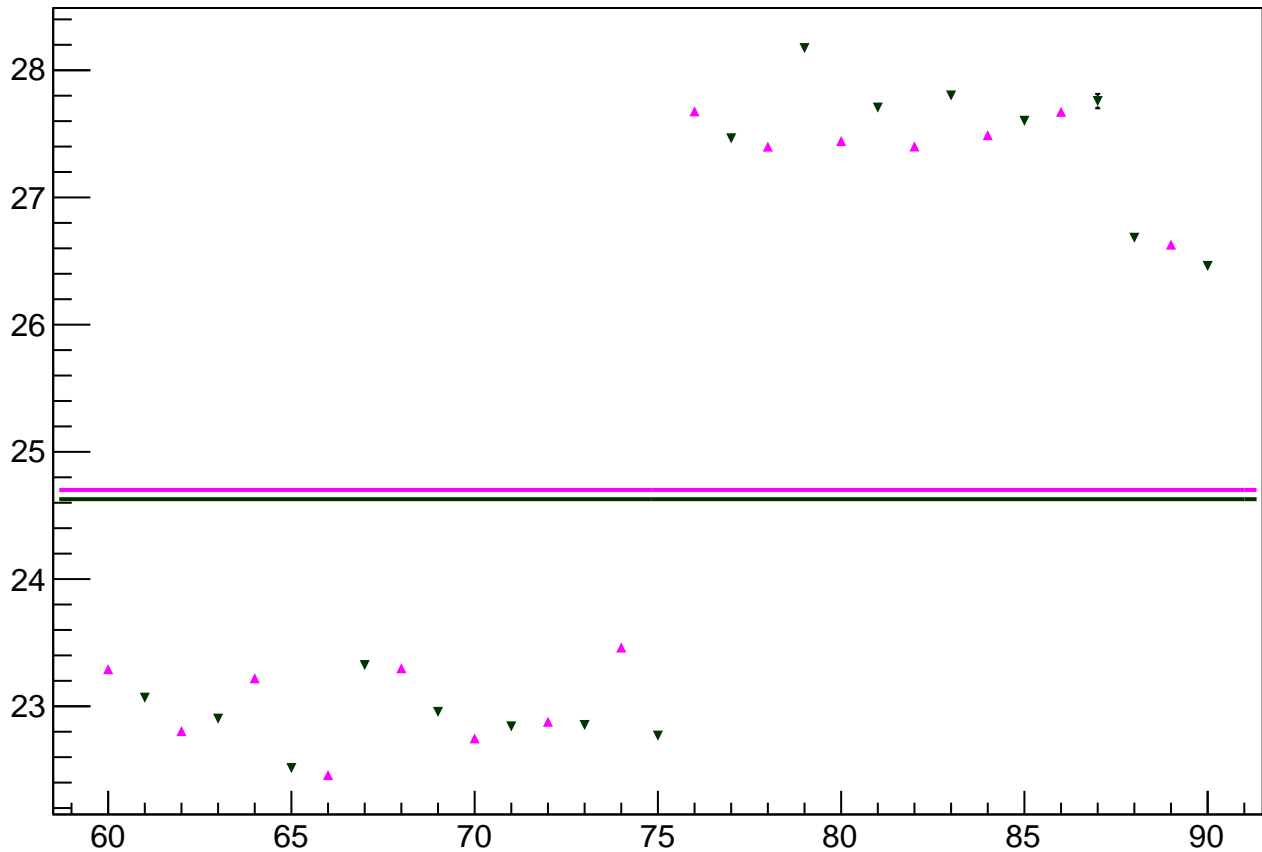
-14.519+/-8.985  $\chi^2$ /NDF: 20.6/15

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

Left In: -10.102+/-8.960  $\chi^2$ /NDF:17.9/14

-10.102+/-8.960  $\chi^2$ /NDF: 17.9/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs slug



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

Left Out: 24.628+/-0.006  $\chi^2$ /NDF:124414.4/15

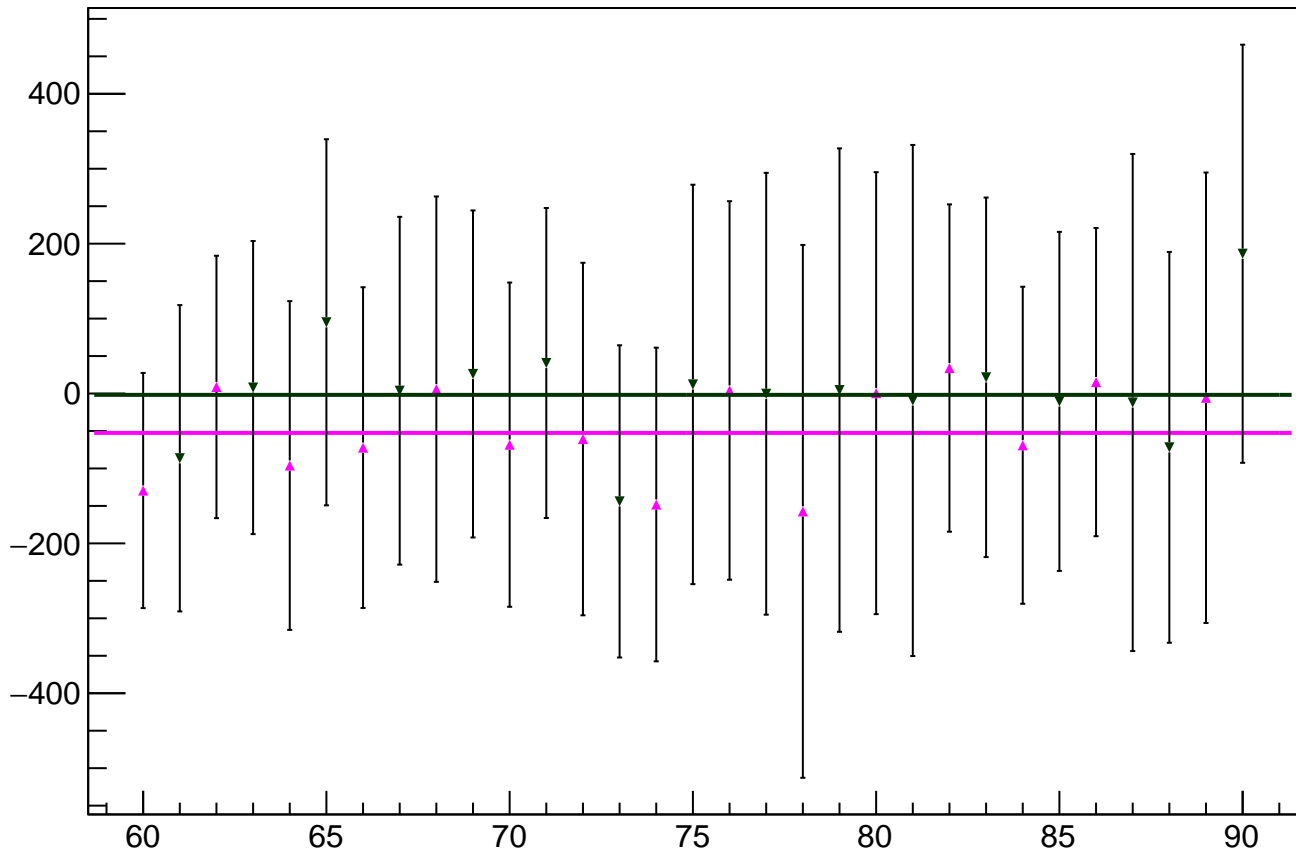
24.628+/-0.006  $\chi^2$ /NDF: 124414.4/15

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

24.701+/-0.006  $\chi^2$ /NDF: 116454.5/14

Left In: 24.701+/-0.006  $\chi^2$ /NDF:116454.5/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



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

Left Out: -1.781+/-60.844  $\chi^2/\text{NDF}$ : 1.4/15

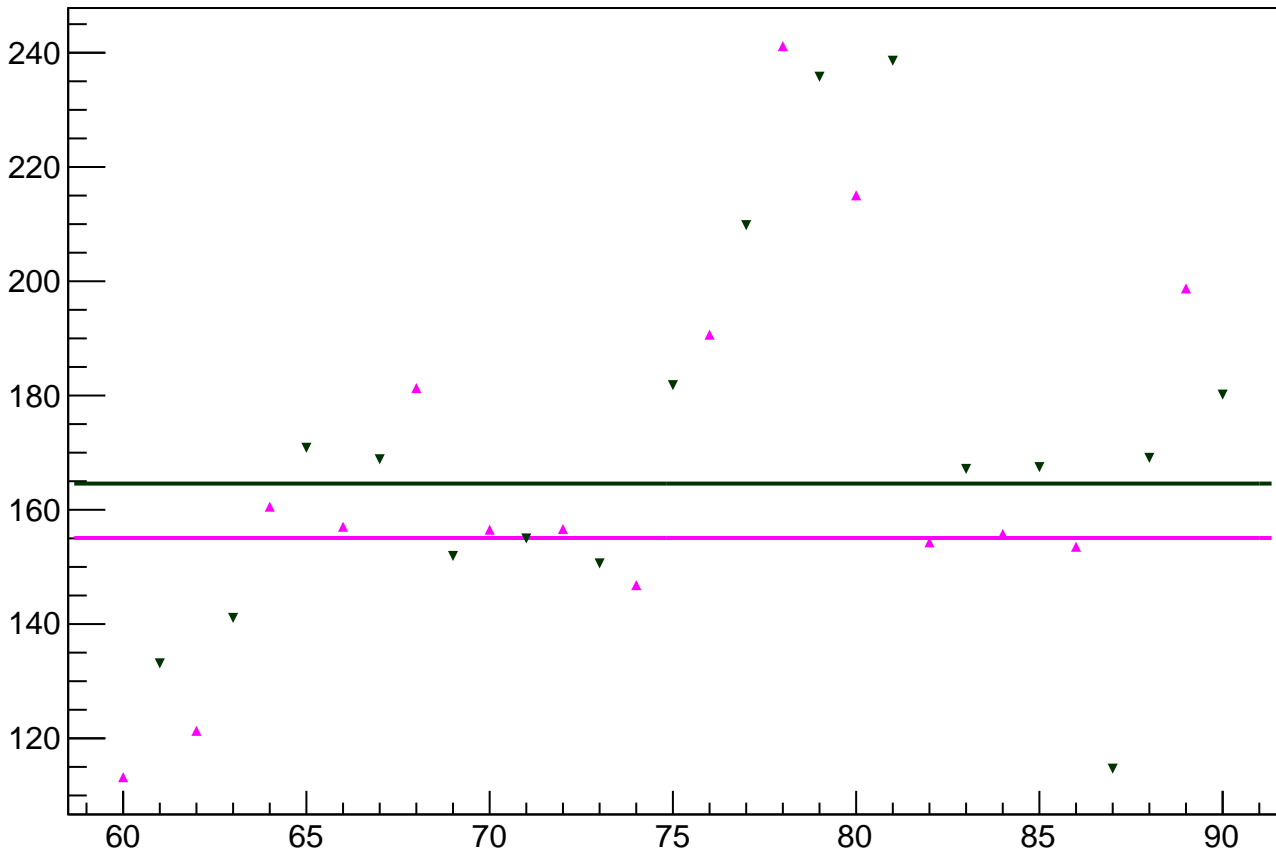
-1.781+/-60.844  $\chi^2/\text{NDF}$ : 1.4/15

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

-52.551+/-57.138  $\chi^2/\text{NDF}$ : 1.1/14

Left In: -52.551+/-57.138  $\chi^2/\text{NDF}$ : 1.1/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



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

164.590+/-0.043  $\chi^2/\text{NDF}$ : 398008.7/15

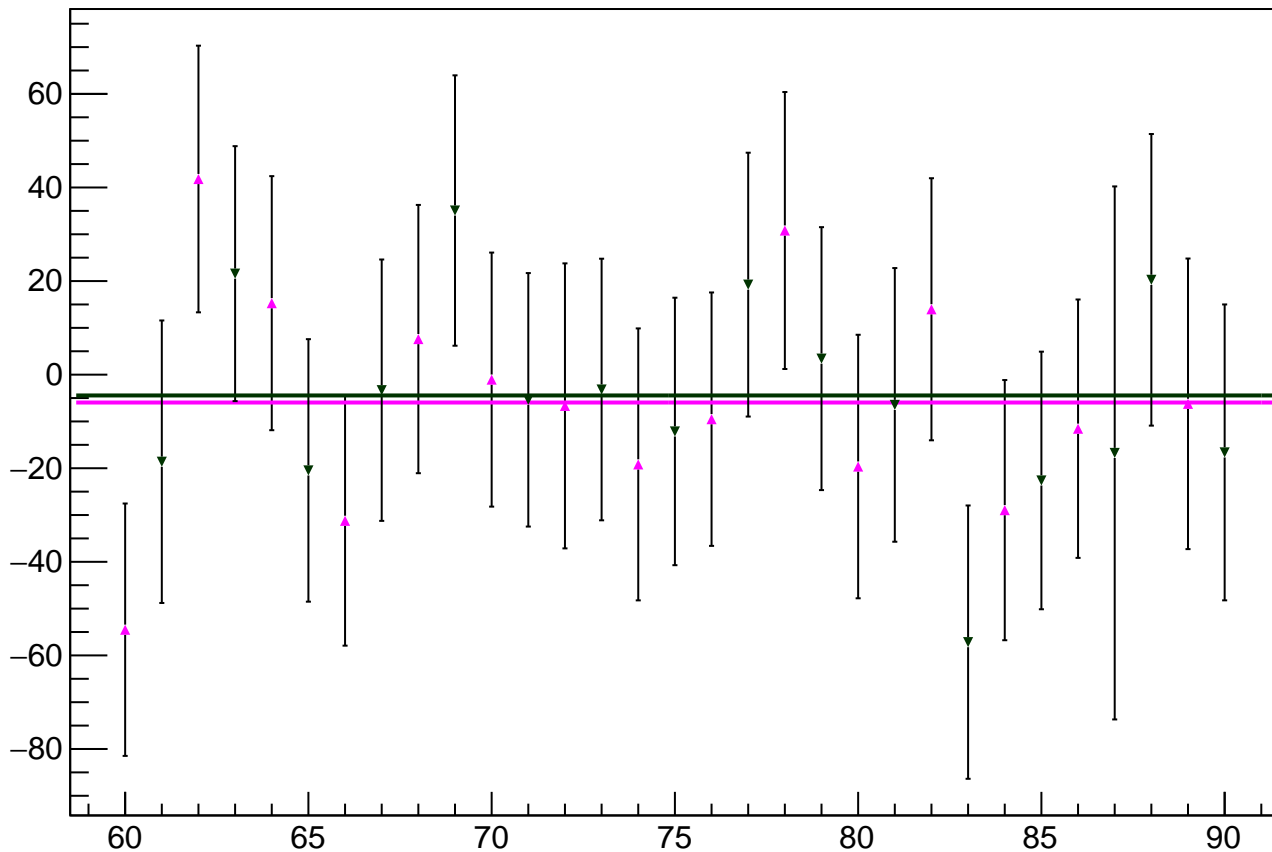
Left Out: 164.590+/-0.043  $\chi^2/\text{NDF}$ : 398008.7/15

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

155.065+/-0.040  $\chi^2/\text{NDF}$ : 524234.5/14

Left In: 155.065+/-0.040  $\chi^2/\text{NDF}$ : 524234.5/14

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



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

Left Out: -4.444+/-7.335  $\chi^2$ /NDF:8.7/15

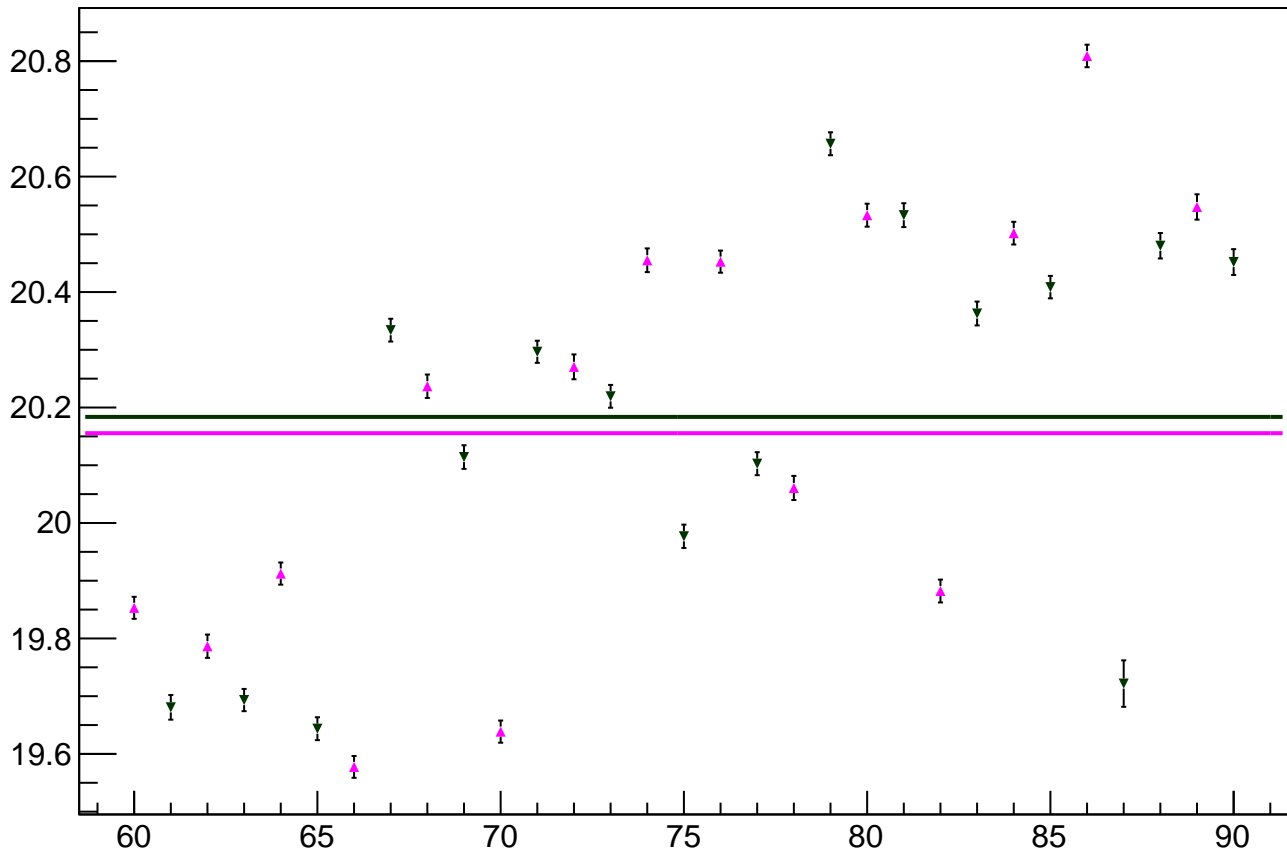
-4.444+/-7.335  $\chi^2$ /NDF: 8.7/15

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

Left In: -5.955+/-7.276  $\chi^2$ /NDF:11.1/14

-5.955+/-7.276  $\chi^2$ /NDF: 11.1/14

# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



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

Left Out: 20.184+/-0.005  $\chi^2$ /NDF:3691.6/15

20.184+/-0.005  $\chi^2$ /NDF: 3691.6/15

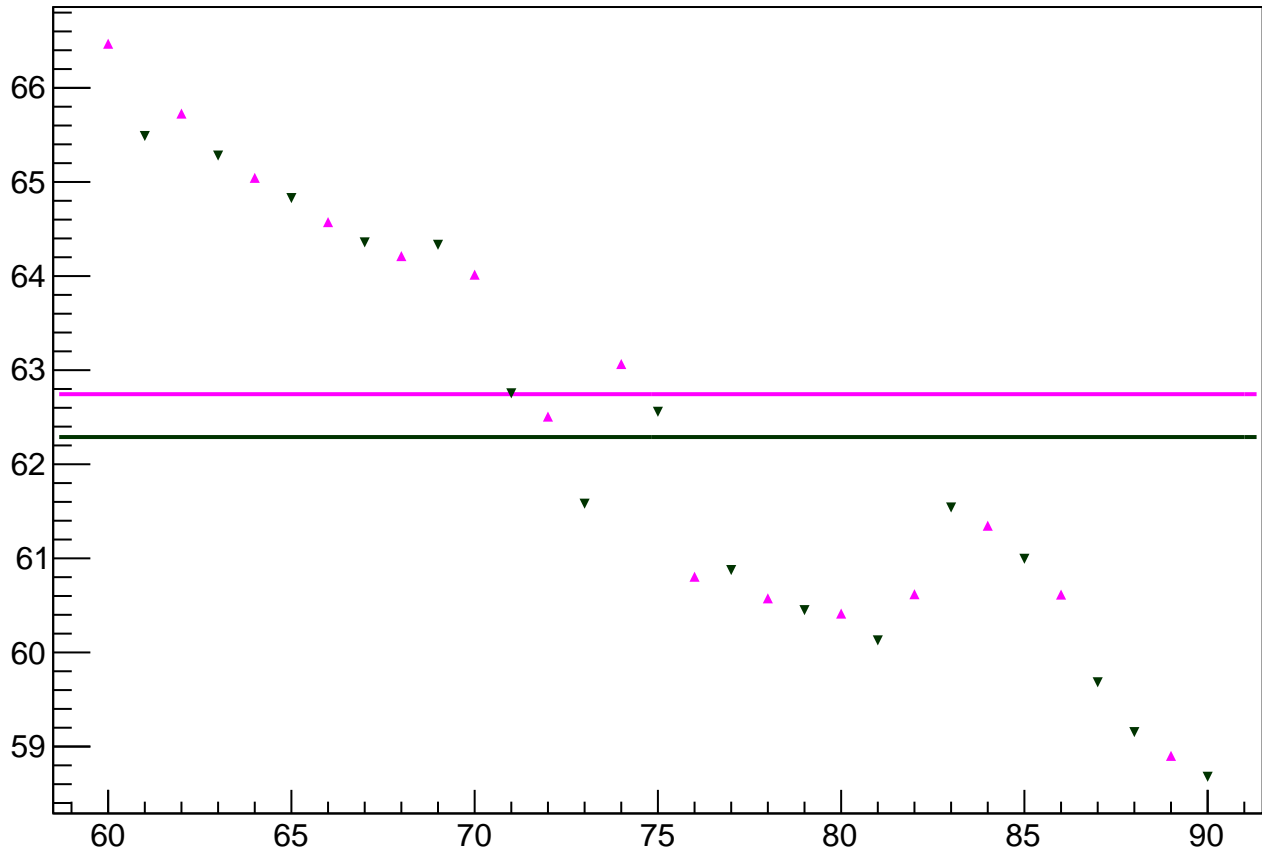
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 20.156+/-0.005  $\chi^2$ /NDF:5228.9/14

20.156+/-0.005  $\chi^2$ /NDF: 5228.9/14



# yield\_usl\_mean vs slug



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

Left Out: 62.289+/-0.000  $\chi^2/\text{NDF}$ :1331473190.8/15

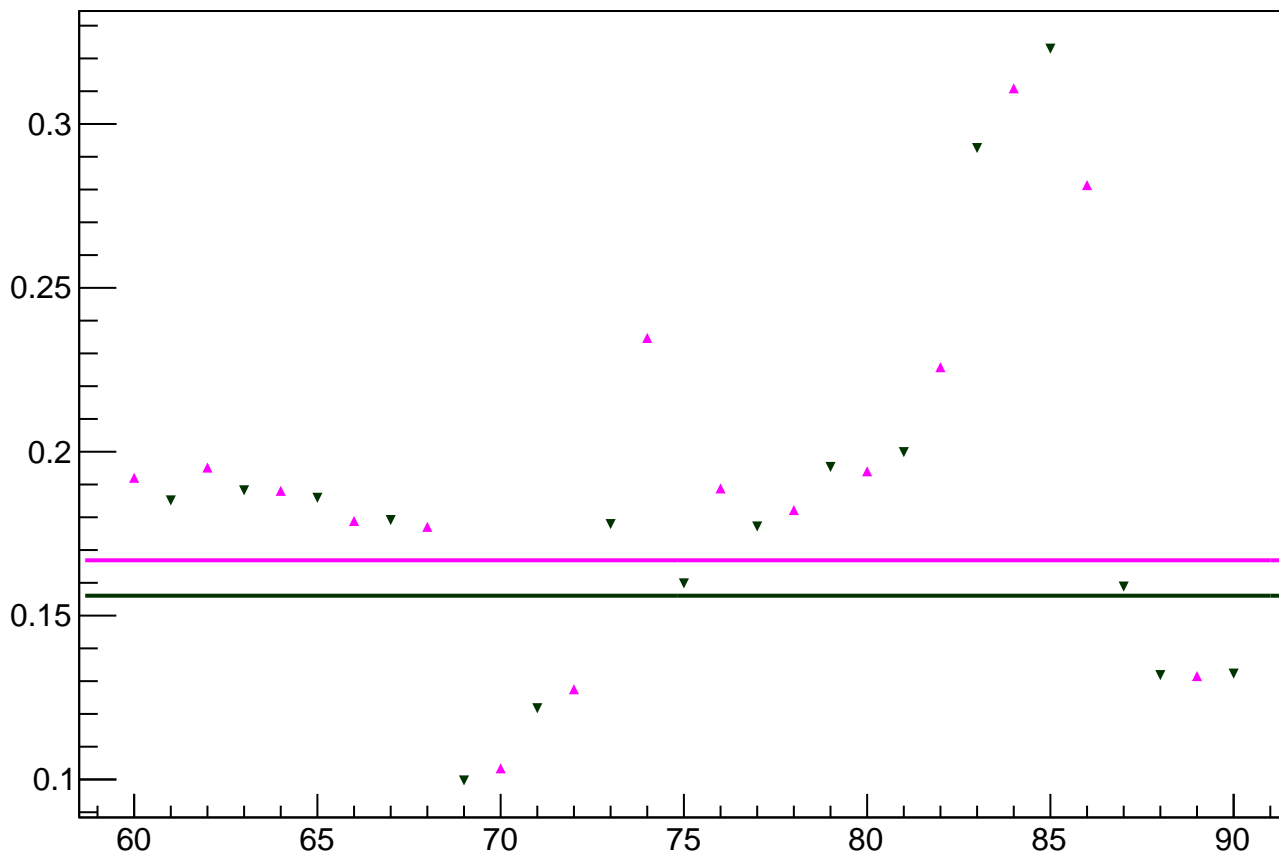
62.289+/-0.000  $\chi^2/\text{NDF}$ : 1331473190.8/15

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

62.745+/-0.000  $\chi^2/\text{NDF}$ : 1182136399.9/14

Left In: 62.745+/-0.000  $\chi^2/\text{NDF}$ :1182136399.9/14

# yield\_usl\_rms vs slug



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

Left Out: 0.156+/-0.000  $\chi^2$ /NDF:1140943.0/15

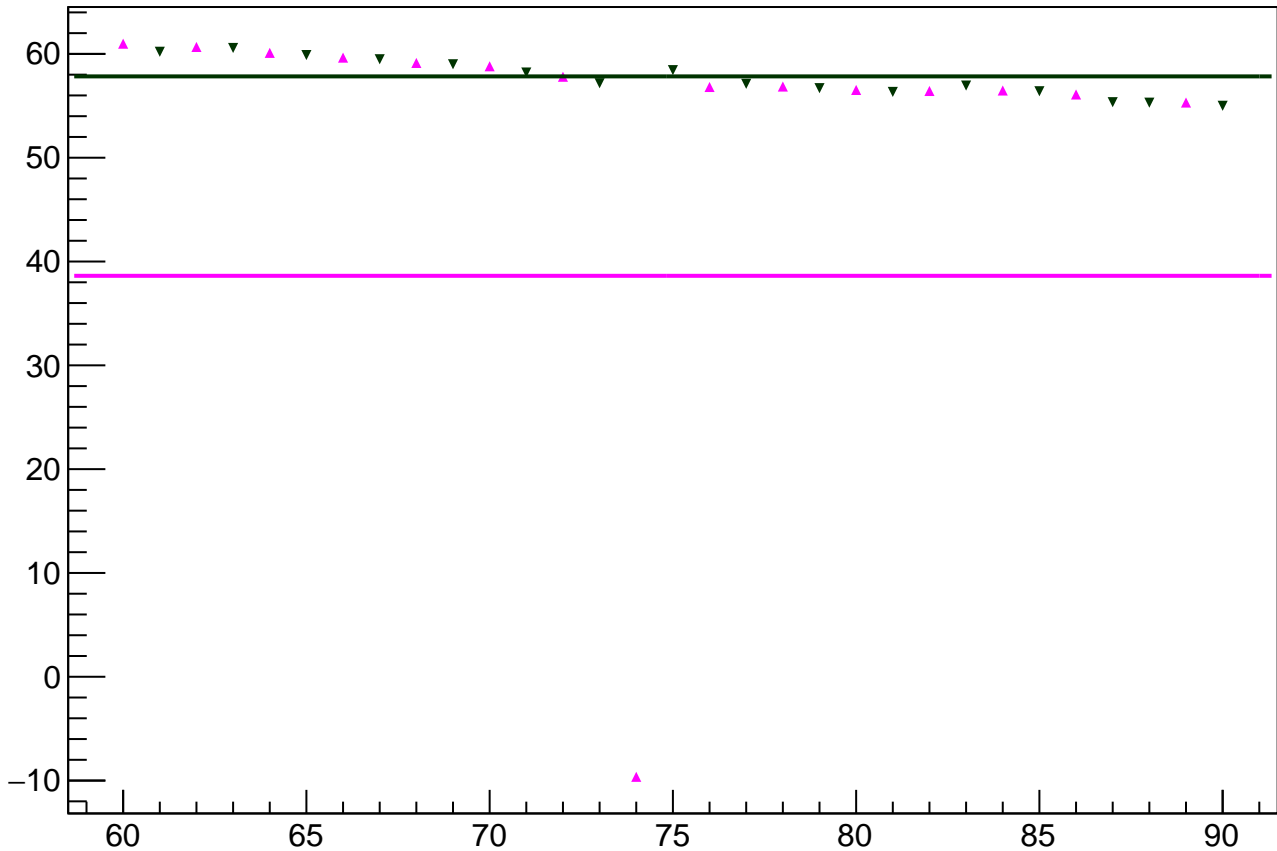
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.167+/-0.000  $\chi^2$ /NDF:1163012.9/14

0.156+/-0.000  $\chi^2$ /NDF: 1140943.0/15

0.167+/-0.000  $\chi^2$ /NDF: 1163012.9/14

# yield\_usr\_mean vs slug



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

Left Out: 57.835+/-0.000  $\chi^2$ /NDF:1194795133.6/15

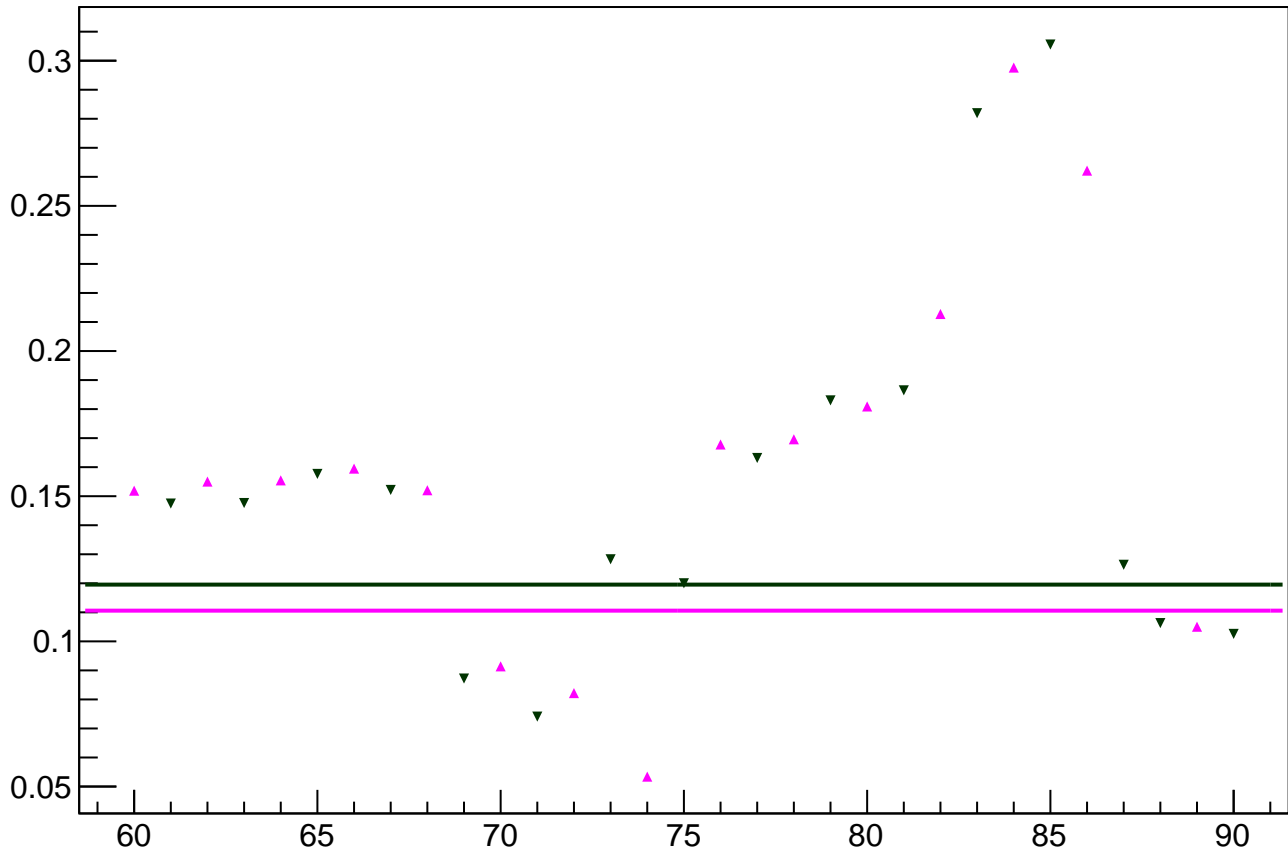
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 38.624+/-0.000  $\chi^2$ /NDF:445122266543.8/14

57.835+/-0.000  $\chi^2$ /NDF: 1194795133.6/15

38.624+/-0.000  $\chi^2$ /NDF: 445122266543.8/14

# yield\_usr\_rms vs slug



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

Left Out: 0.120+/-0.000  $\chi^2/\text{NDF}$ :1784562.8/15

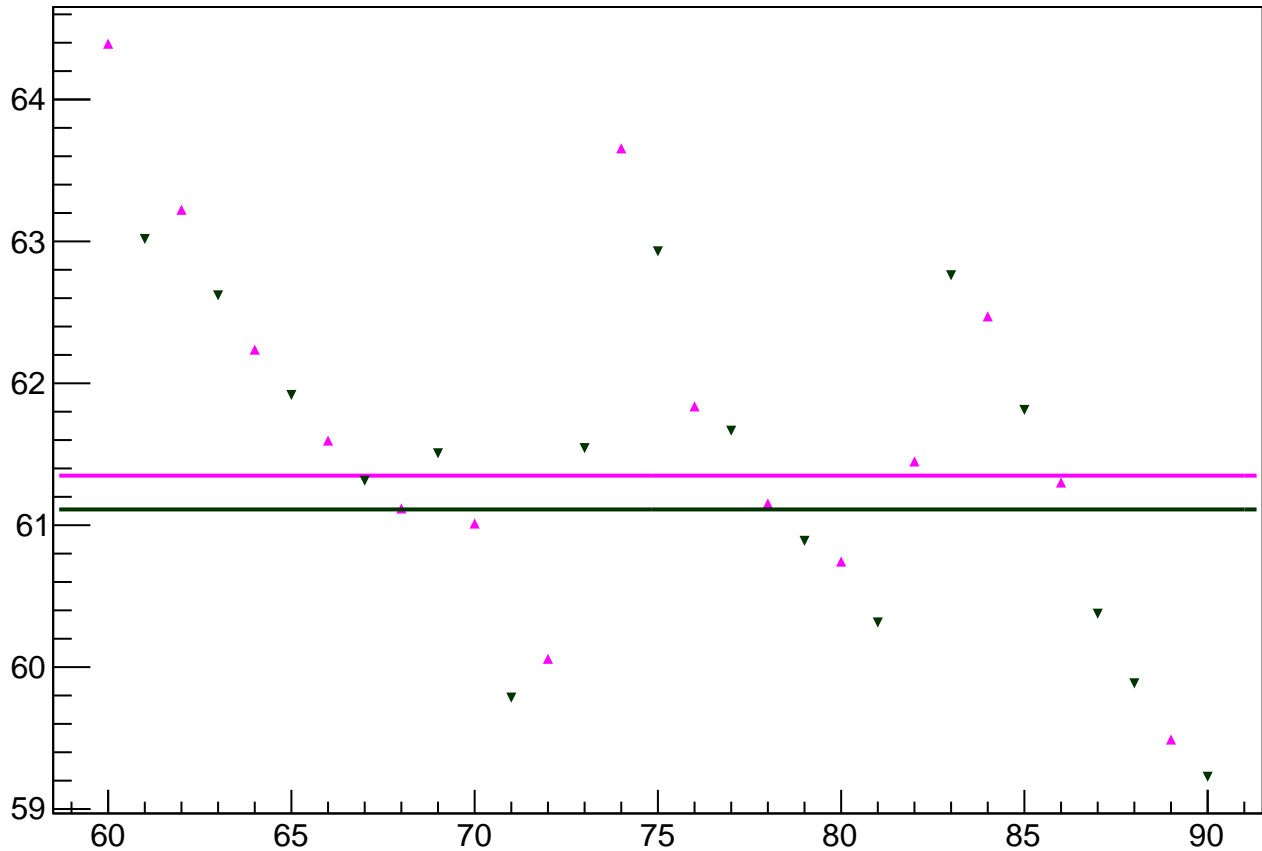
0.120+/-0.000  $\chi^2/\text{NDF}$ : 1784562.8/15

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

0.111+/-0.000  $\chi^2/\text{NDF}$ : 2797004.9/14

Left In: 0.111+/-0.000  $\chi^2/\text{NDF}$ :2797004.9/14

# yield\_dsl\_mean vs slug



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

Left Out: 61.111+/-0.000  $\chi^2/\text{NDF}$ : 344569099.1/15

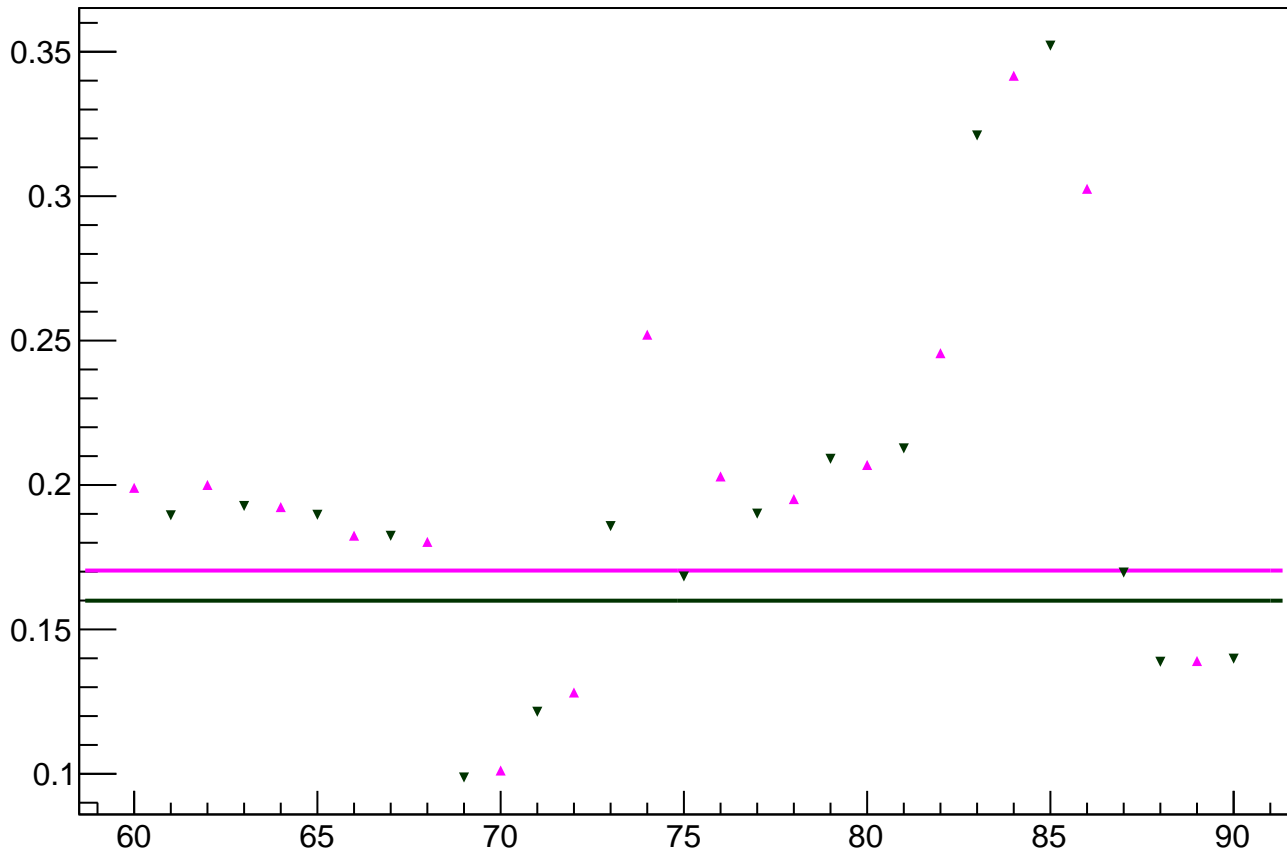
61.111+/-0.000  $\chi^2/\text{NDF}$ : 344569099.1/15

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

61.349+/-0.000  $\chi^2/\text{NDF}$ : 345319103.7/14

Left In: 61.349+/-0.000  $\chi^2/\text{NDF}$ : 345319103.7/14

# yield\_dsl\_rms vs slug



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

Left Out: 0.160+/-0.000  $\chi^2/\text{NDF}$ :1312671.4/15

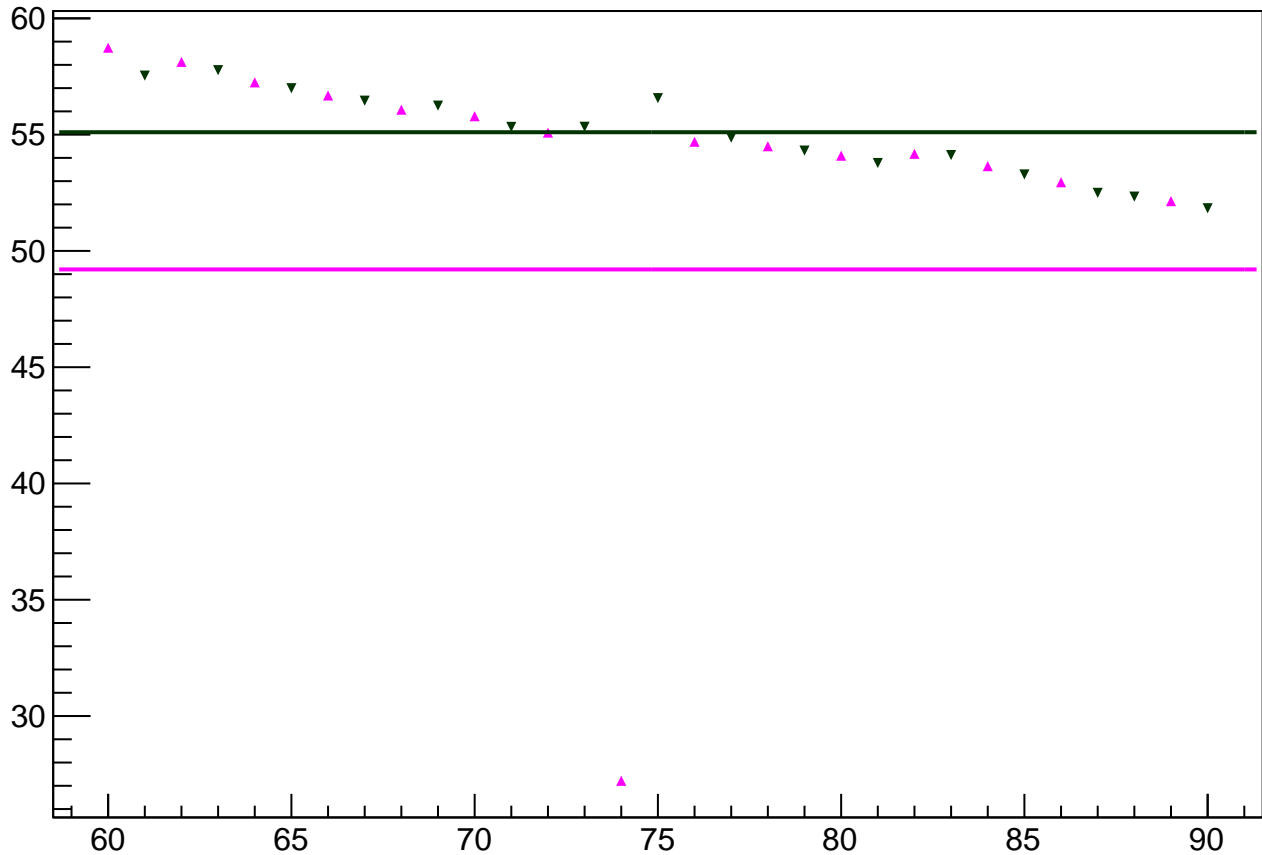
0.160+/-0.000  $\chi^2/\text{NDF}$ : 1312671.4/15

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

0.170+/-0.000  $\chi^2/\text{NDF}$ : 1396942.0/14

Left In: 0.170+/-0.000  $\chi^2/\text{NDF}$ :1396942.0/14

# yield\_dsr\_mean vs slug



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

Left Out: 55.104+/-0.000  $\chi^2$ /NDF:1559223868.0/15

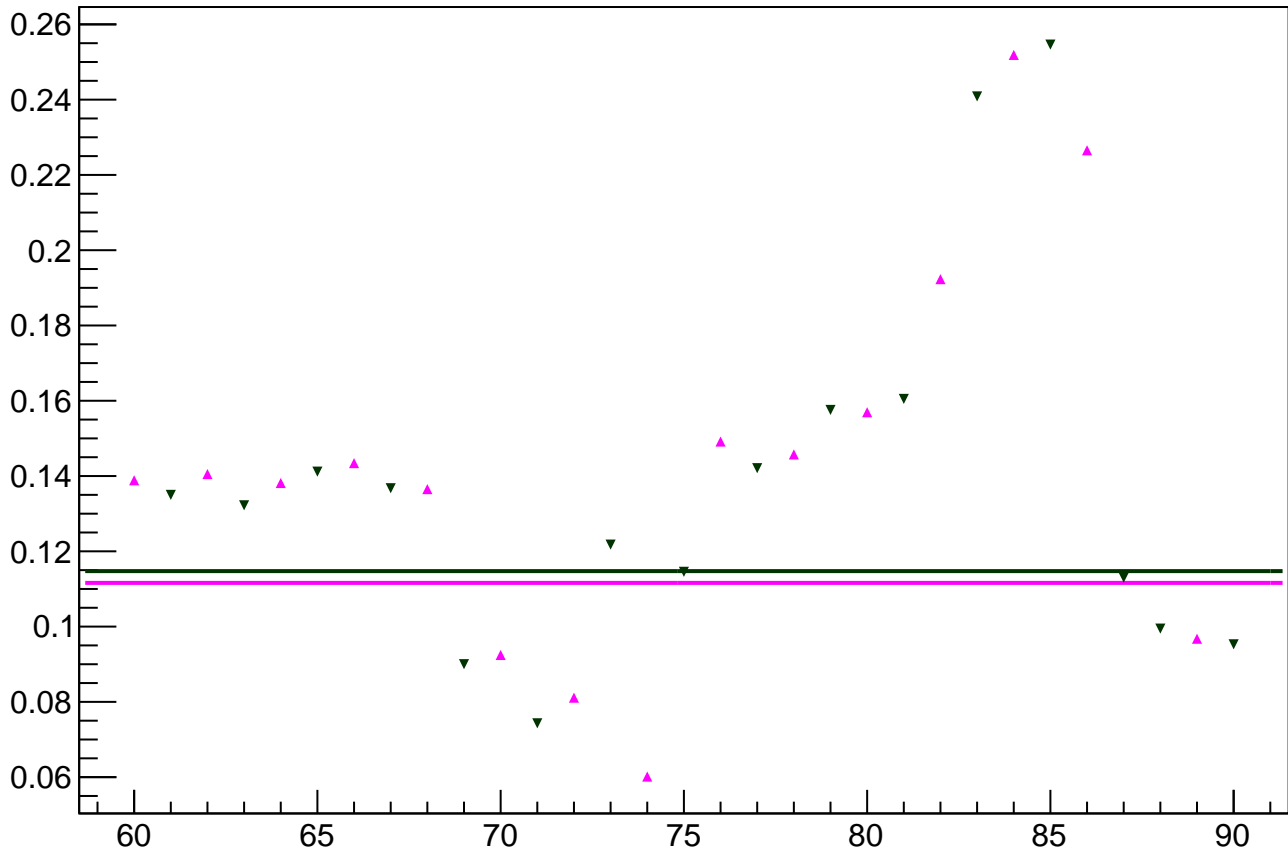
55.104+/-0.000  $\chi^2$ /NDF: 1559223868.0/15

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

49.204+/-0.000  $\chi^2$ /NDF: 68547398023.2/14

Left In: 49.204+/-0.000  $\chi^2$ /NDF:68547398023.2/14

# yield\_dsr\_rms vs slug



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

Left Out: 0.115+/-0.000  $\chi^2/\text{NDF}$ : 1327321.6/15

0.115+/-0.000  $\chi^2/\text{NDF}$ : 1327321.6/15

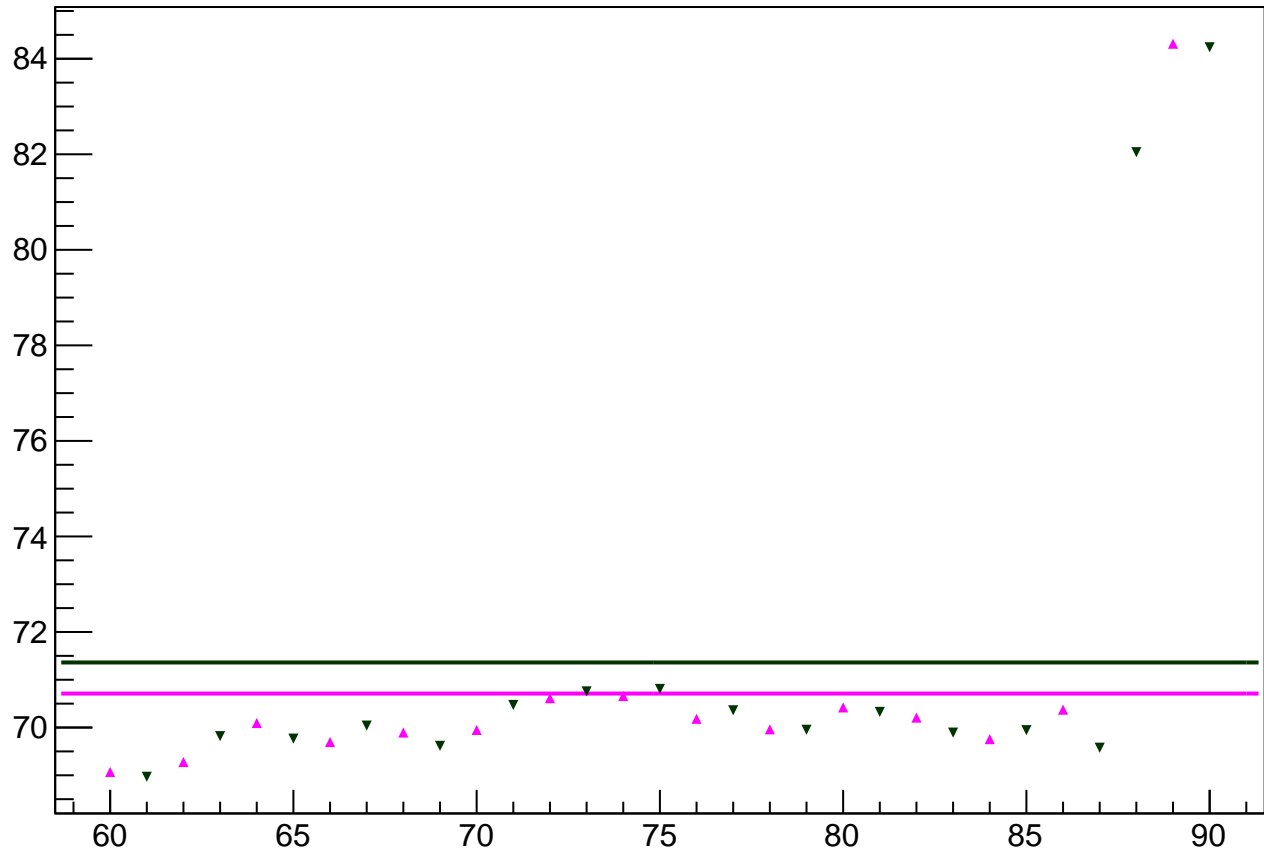
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.112+/-0.000  $\chi^2/\text{NDF}$ : 1910091.9/14

Left In: 0.112+/-0.000  $\chi^2/\text{NDF}$ : 1910091.9/14



# yield\_bcm\_an\_ds\_mean vs slug



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

Left Out: 71.362+/-0.000  $\chi^2/\text{NDF}$ :2227503270.5/15

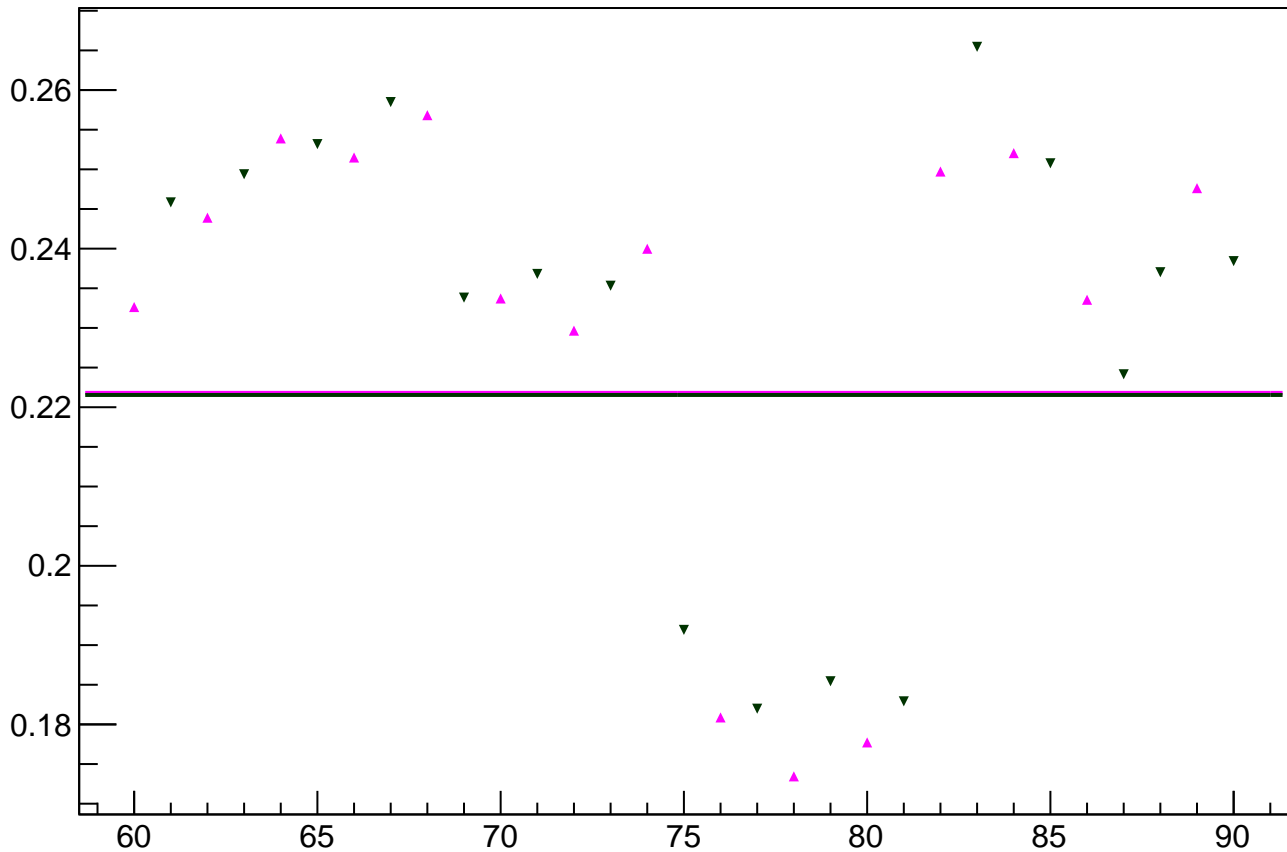
71.362+/-0.000  $\chi^2/\text{NDF}$ : 2227503270.5/15

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

70.711+/-0.000  $\chi^2/\text{NDF}$ : 1403829362.4/14

Left In: 70.711+/-0.000  $\chi^2/\text{NDF}$ :1403829362.4/14

# yield\_bcm\_an\_ds\_rms vs slug



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

Left Out: 0.222+/-0.000  $\chi^2$ /NDF:270567.5/15

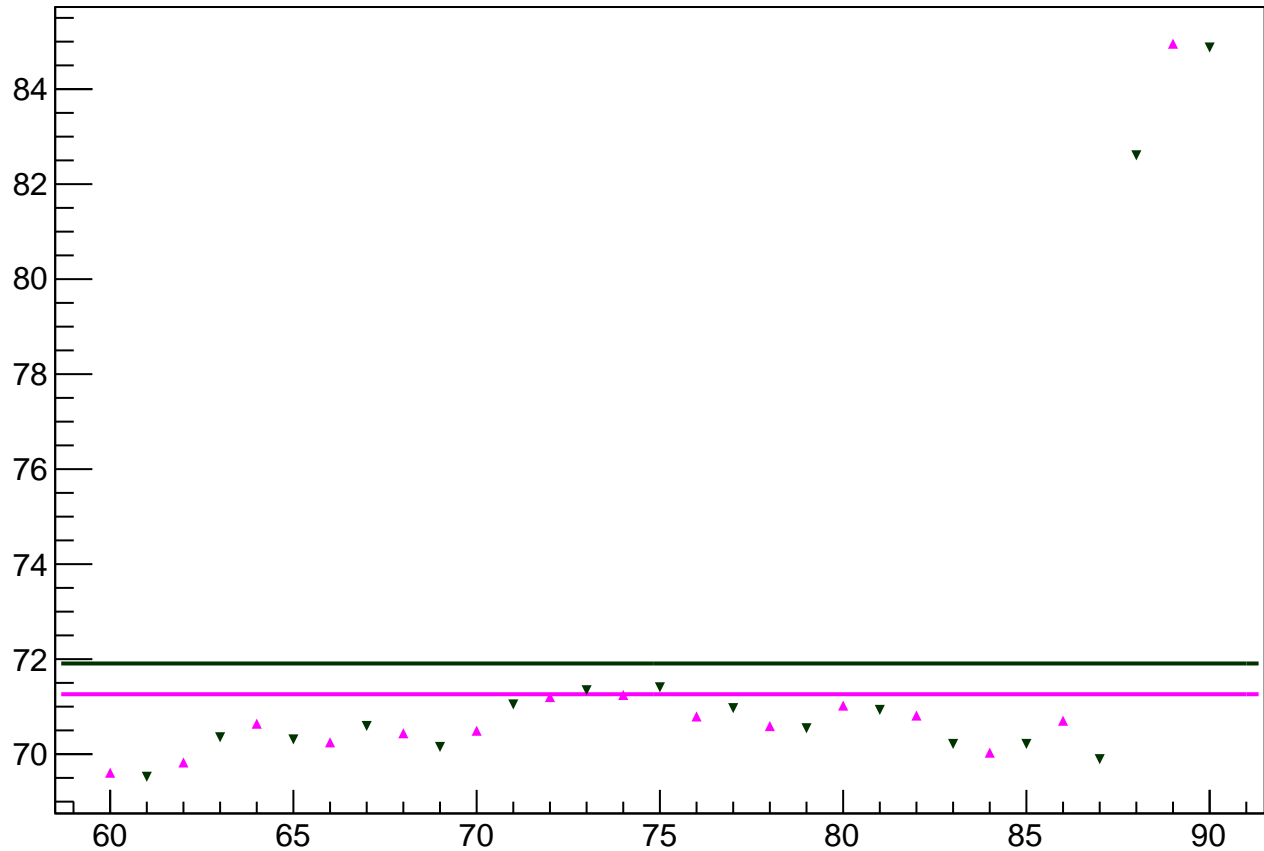
0.222+/-0.000  $\chi^2$ /NDF: 270567.5/15

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

0.222+/-0.000  $\chi^2$ /NDF: 302043.9/14

Left In: 0.222+/-0.000  $\chi^2$ /NDF:302043.9/14

# yield\_bcm\_an\_ds3\_mean vs slug



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

Left Out: 71.909+/-0.000  $\chi^2/\text{NDF}$ :2150220469.2/15

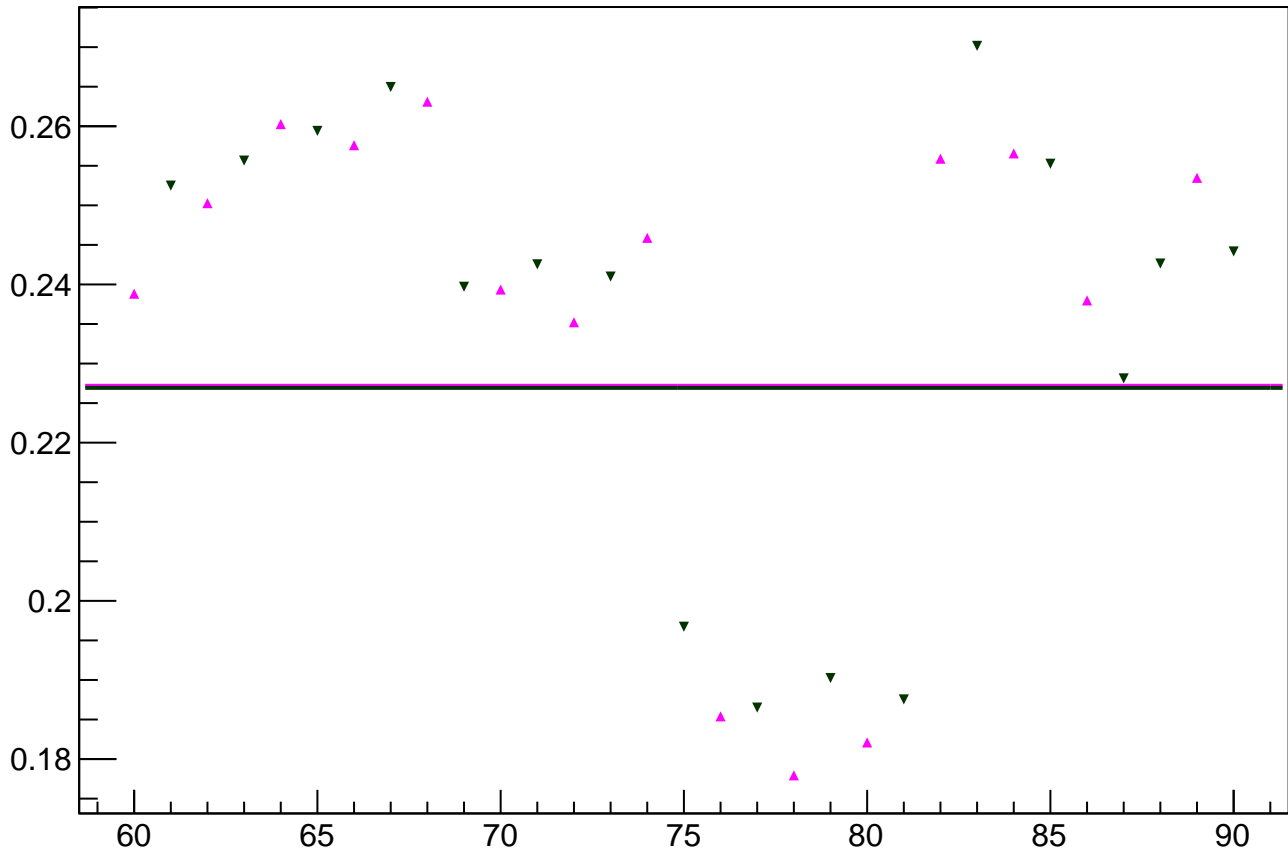
71.909+/-0.000  $\chi^2/\text{NDF}$ : 2150220469.2/15

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

71.261+/-0.000  $\chi^2/\text{NDF}$ : 1360489972.0/14

Left In: 71.261+/-0.000  $\chi^2/\text{NDF}$ :1360489972.0/14

# yield\_bcm\_an\_ds3\_rms vs slug



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

Left Out: 0.227+/-0.000  $\chi^2$ /NDF:266517.3/15

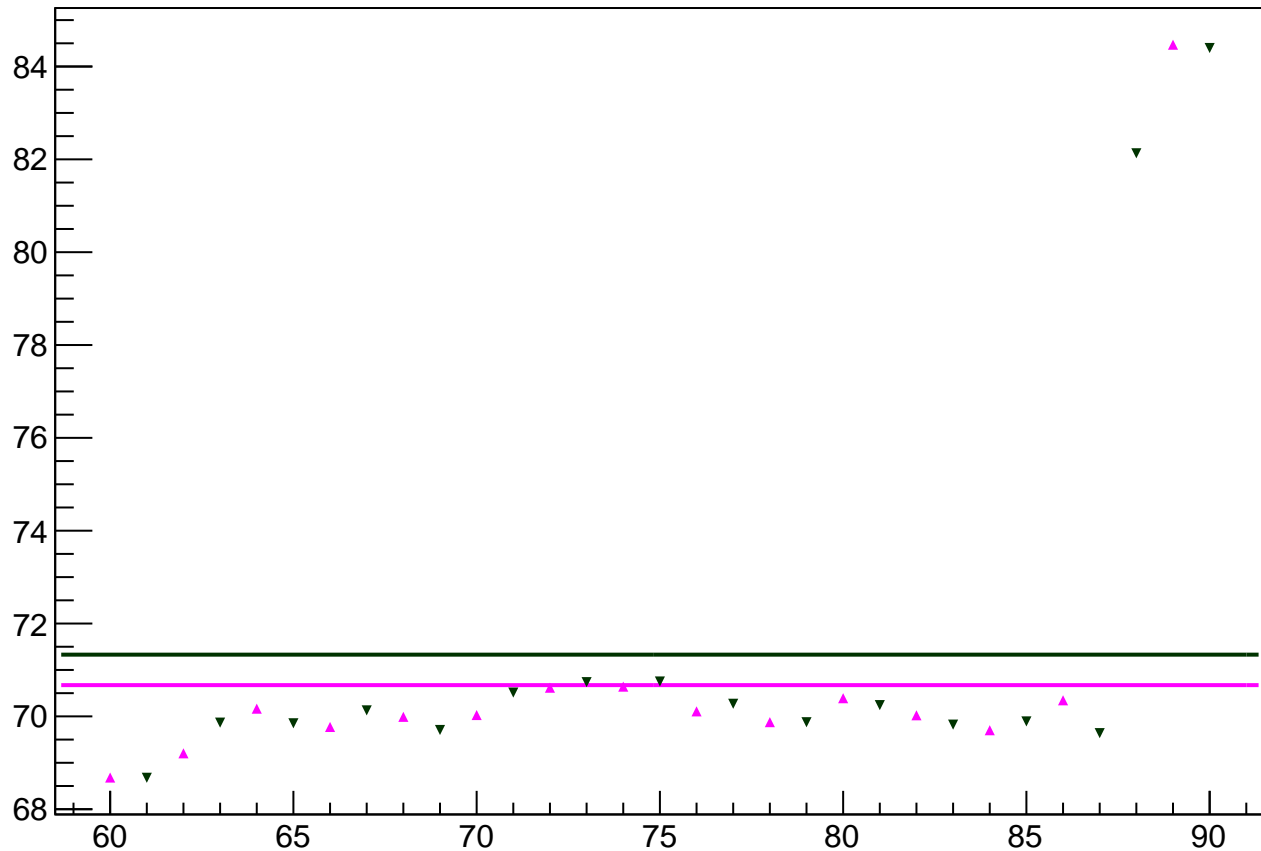
0.227+/-0.000  $\chi^2$ /NDF: 266517.3/15

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

0.227+/-0.000  $\chi^2$ /NDF: 299198.1/14

Left In: 0.227+/-0.000  $\chi^2$ /NDF:299198.1/14

# yield\_bcm\_an\_us\_mean vs slug



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

Left Out: 71.330+/-0.000  $\chi^2/\text{NDF}$ :2269367041.0/15

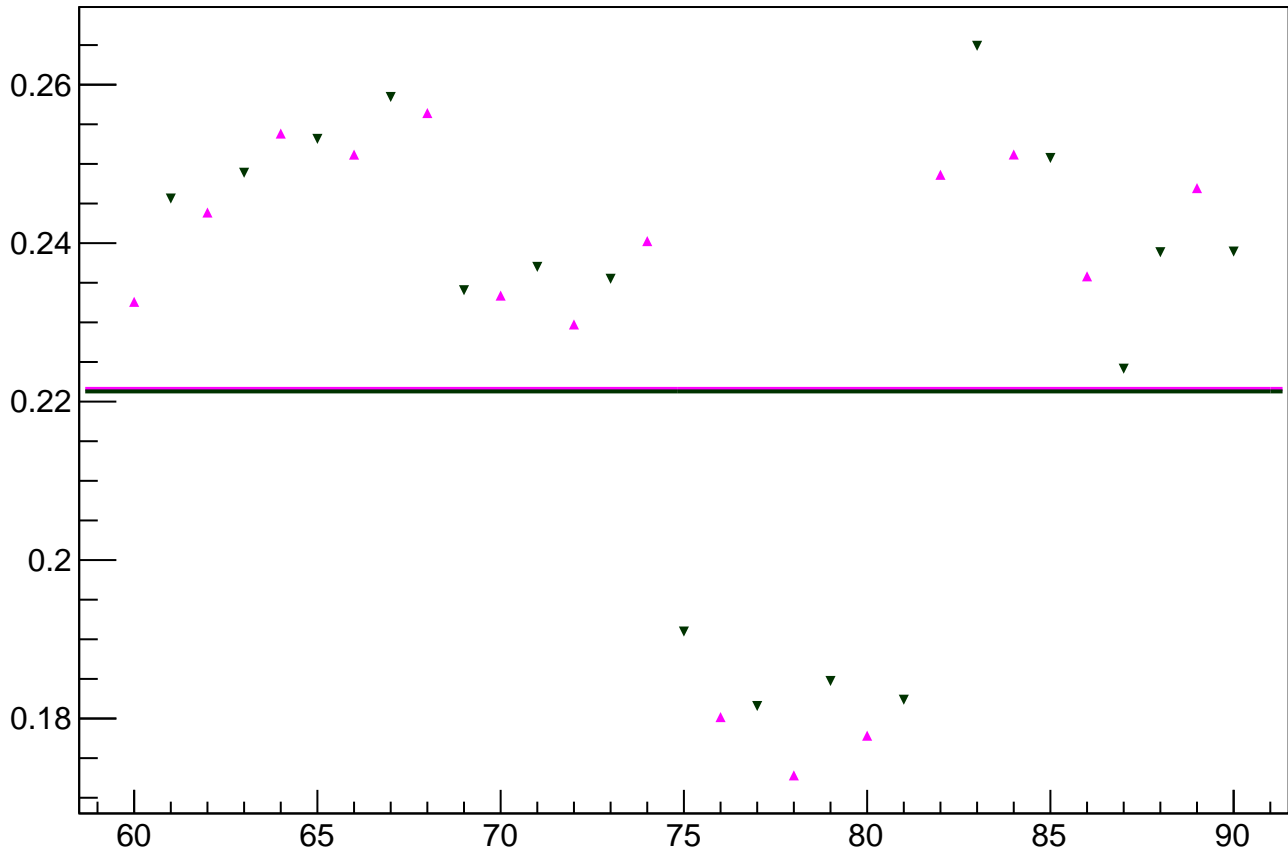
71.330+/-0.000  $\chi^2/\text{NDF}$ : 2269367041.0/15

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

70.673+/-0.000  $\chi^2/\text{NDF}$ : 1459187253.3/14

Left In: 70.673+/-0.000  $\chi^2/\text{NDF}$ :1459187253.3/14

# yield\_bcm\_an\_us\_rms vs slug



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

Left Out: 0.221+/-0.000  $\chi^2$ /NDF:276964.4/15

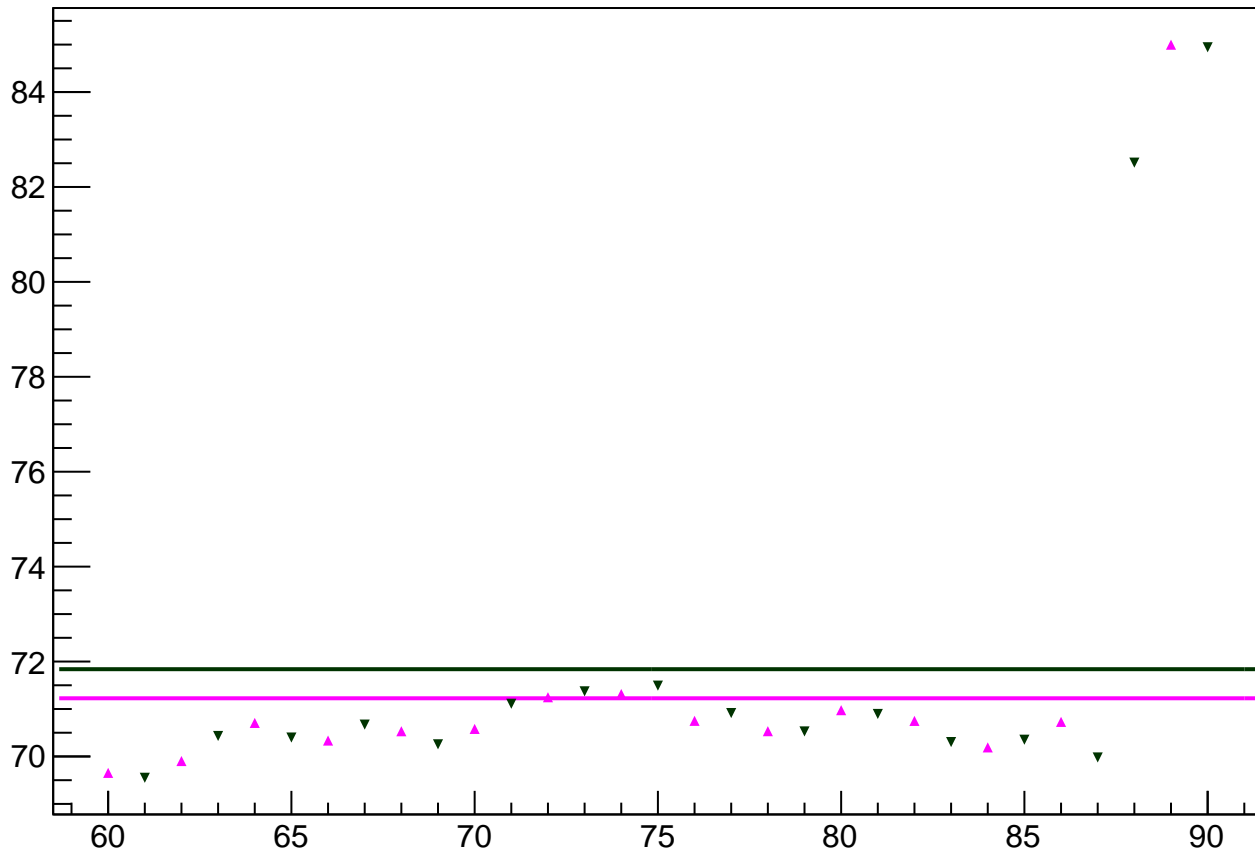
0.221+/-0.000  $\chi^2$ /NDF: 276964.4/15

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

0.222+/-0.000  $\chi^2$ /NDF: 304805.2/14

Left In: 0.222+/-0.000  $\chi^2$ /NDF:304805.2/14

# yield\_bcm\_dg\_us\_mean vs slug



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

Left Out: 71.839+/-0.000  $\chi^2/\text{NDF}$ :2116946630.0/15

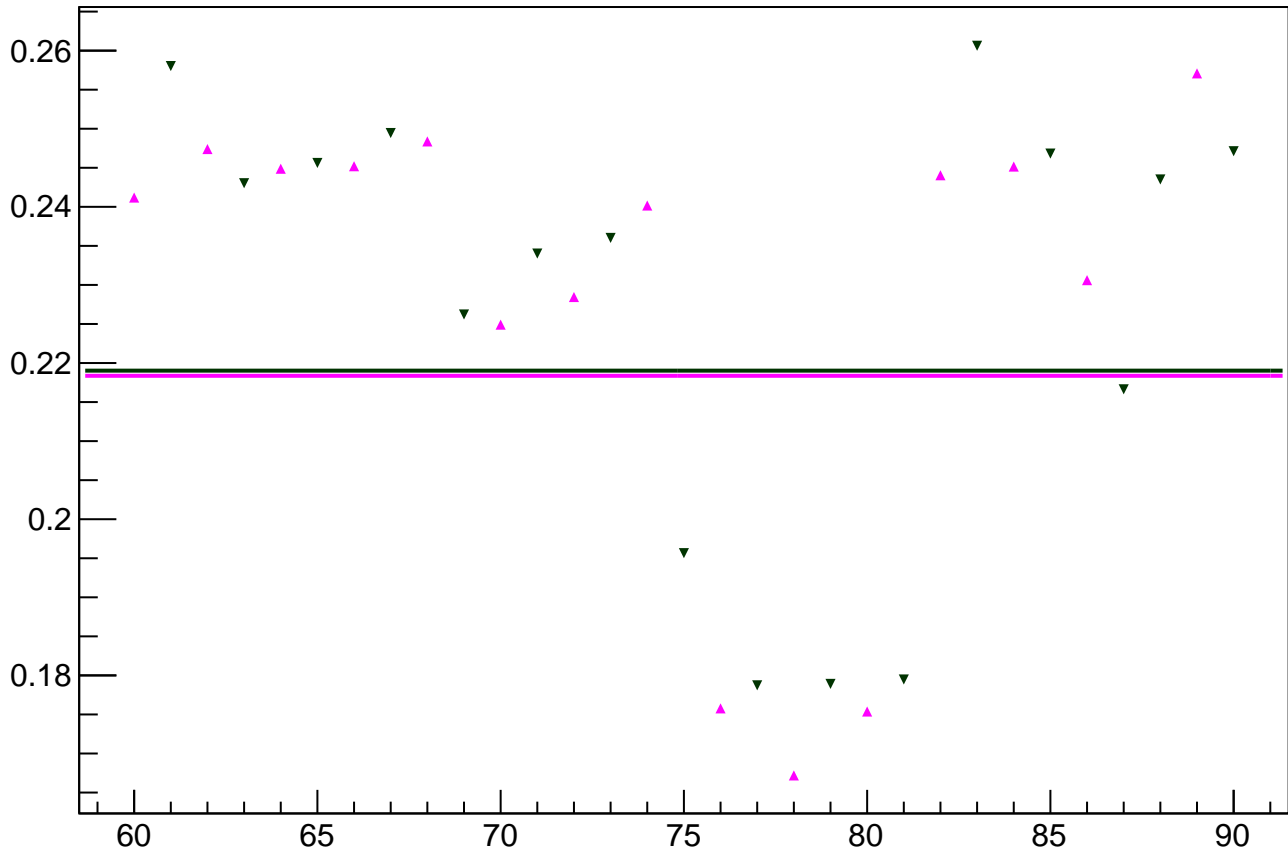
71.839+/-0.000  $\chi^2/\text{NDF}$ : 2116946630.0/15

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

71.226+/-0.000  $\chi^2/\text{NDF}$ : 1329101144.1/14

Left In: 71.226+/-0.000  $\chi^2/\text{NDF}$ :1329101144.1/14

# yield\_bcm\_dg\_us\_rms vs slug



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

Left Out: 0.219+/-0.000  $\chi^2$ /NDF:289191.7/15

0.219+/-0.000  $\chi^2$ /NDF: 289191.7/15

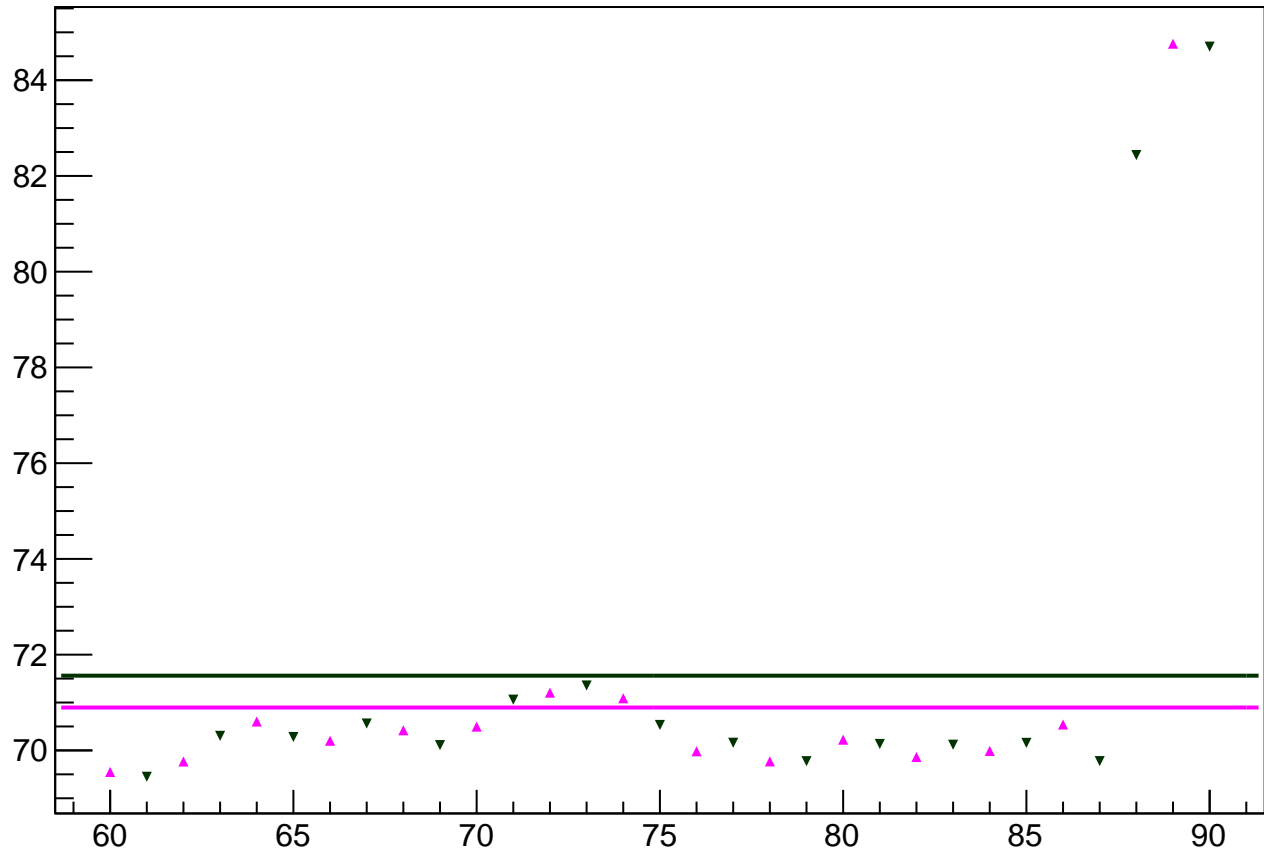
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.218+/-0.000  $\chi^2$ /NDF: 331191.3/14

Left In: 0.218+/-0.000  $\chi^2$ /NDF:331191.3/14



# yield\_bcm\_dg\_ds\_mean vs slug



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

Left Out: 71.561+/-0.000  $\chi^2/\text{NDF}$ :2315611950.9/15

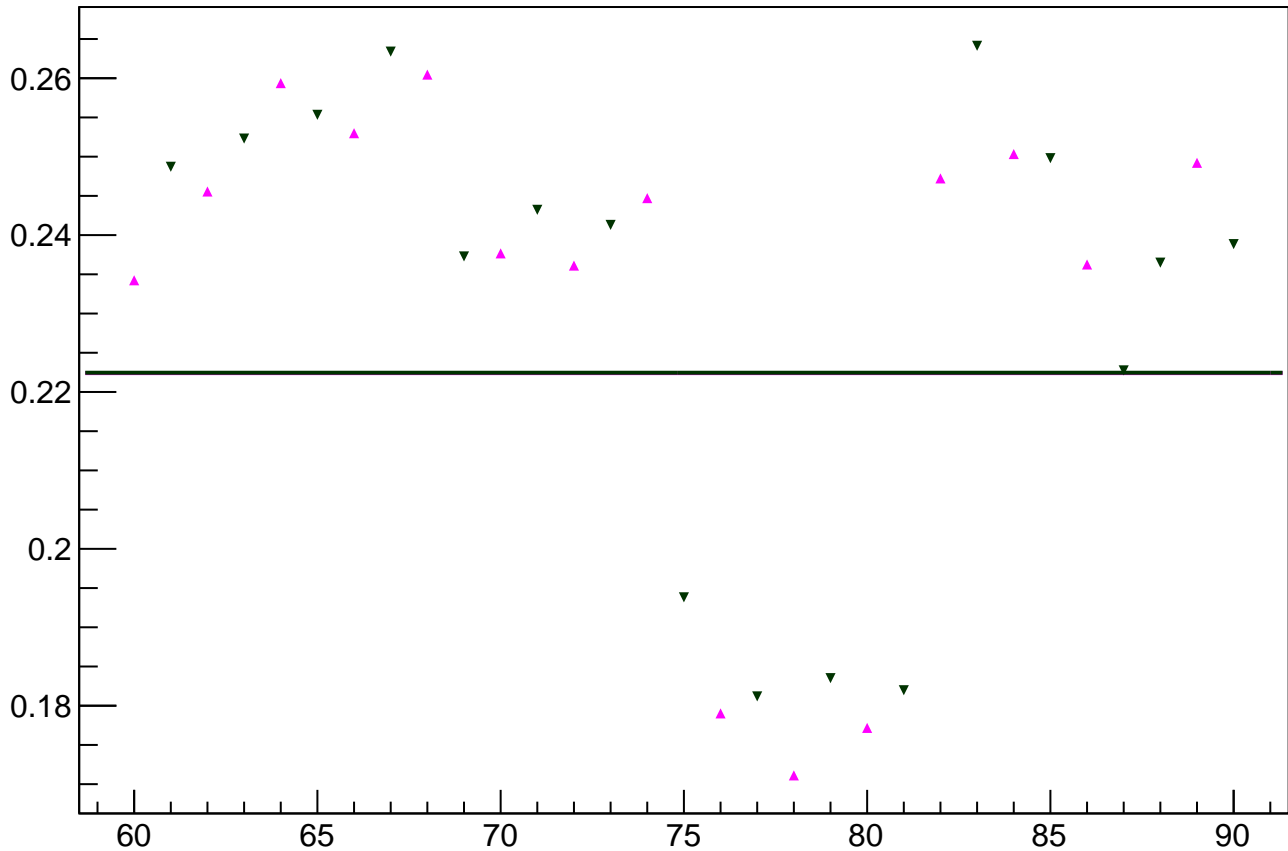
71.561+/-0.000  $\chi^2/\text{NDF}$ : 2315611950.9/15

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

70.895+/-0.000  $\chi^2/\text{NDF}$ : 1441636170.9/14

Left In: 70.895+/-0.000  $\chi^2/\text{NDF}$ :1441636170.9/14

# yield\_bcm\_dg\_ds\_rms vs slug



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

Left Out: 0.222+/-0.000  $\chi^2$ /NDF:295690.3/15

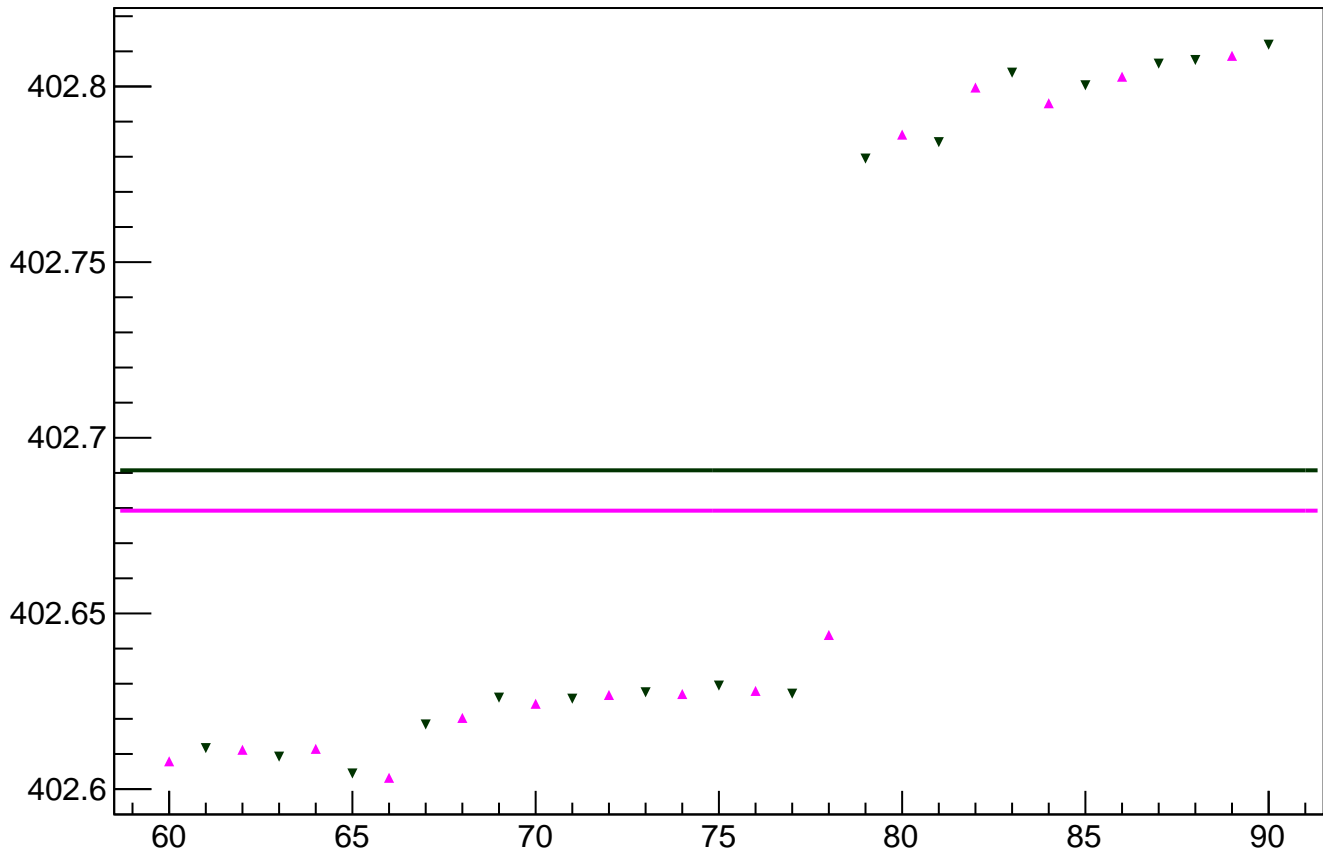
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.222+/-0.000  $\chi^2$ /NDF:337763.0/14

0.222+/-0.000  $\chi^2$ /NDF: 295690.3/15

0.222+/-0.000  $\chi^2$ /NDF: 337763.0/14

# yield\_cav4bQ\_mean vs slug



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

Left Out: 402.691+/-0.000  $\chi^2/\text{NDF}$ : 1374702080.8/15

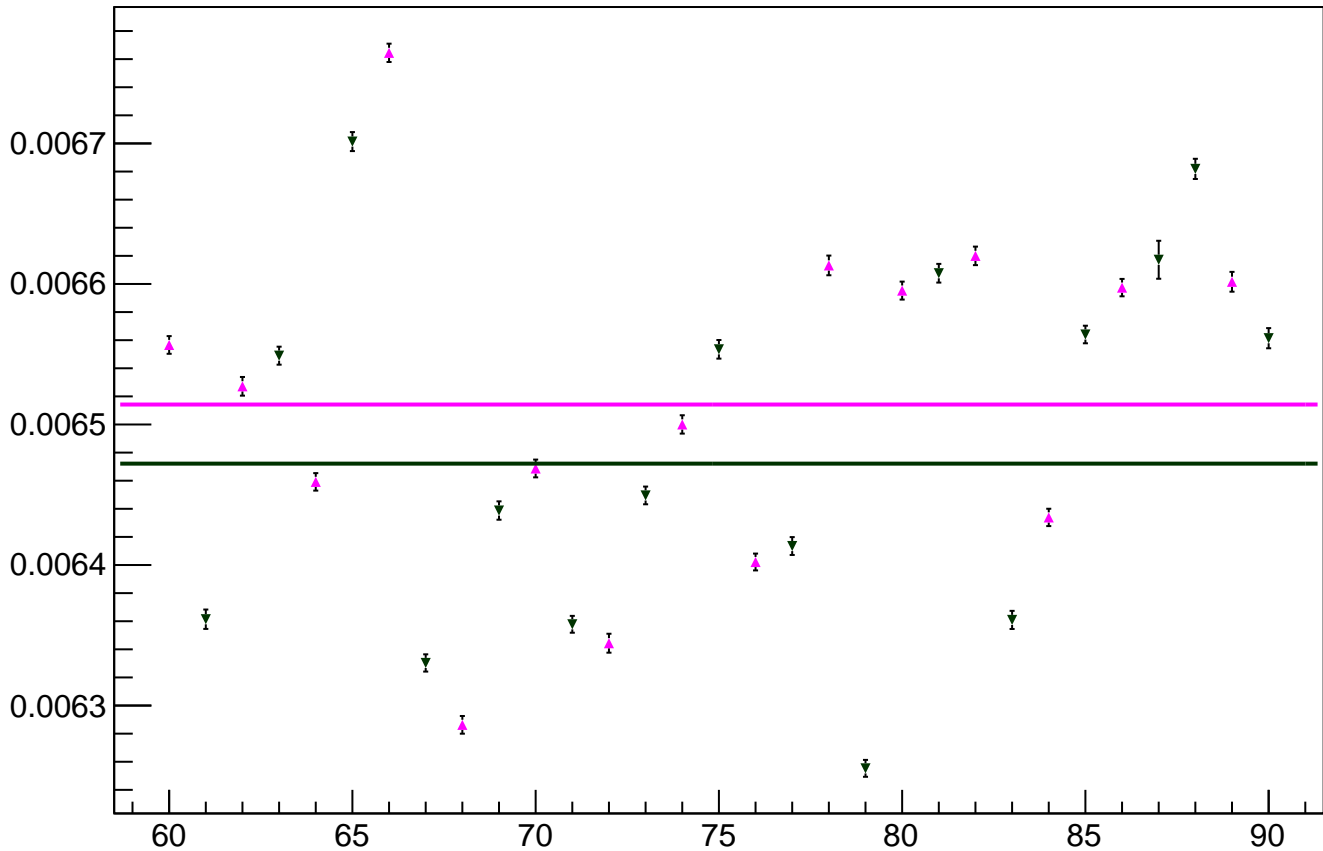
402.691+/-0.000  $\chi^2/\text{NDF}$ : 1374702080.8/15

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

402.679+/-0.000  $\chi^2/\text{NDF}$ : 1289508758.4/14

Left In: 402.679+/-0.000  $\chi^2/\text{NDF}$ : 1289508758.4/14

# yield\_cav4bQ\_rms vs slug



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

Left Out: 0.006+/-0.000  $\chi^2$ /NDF:6072.4/15

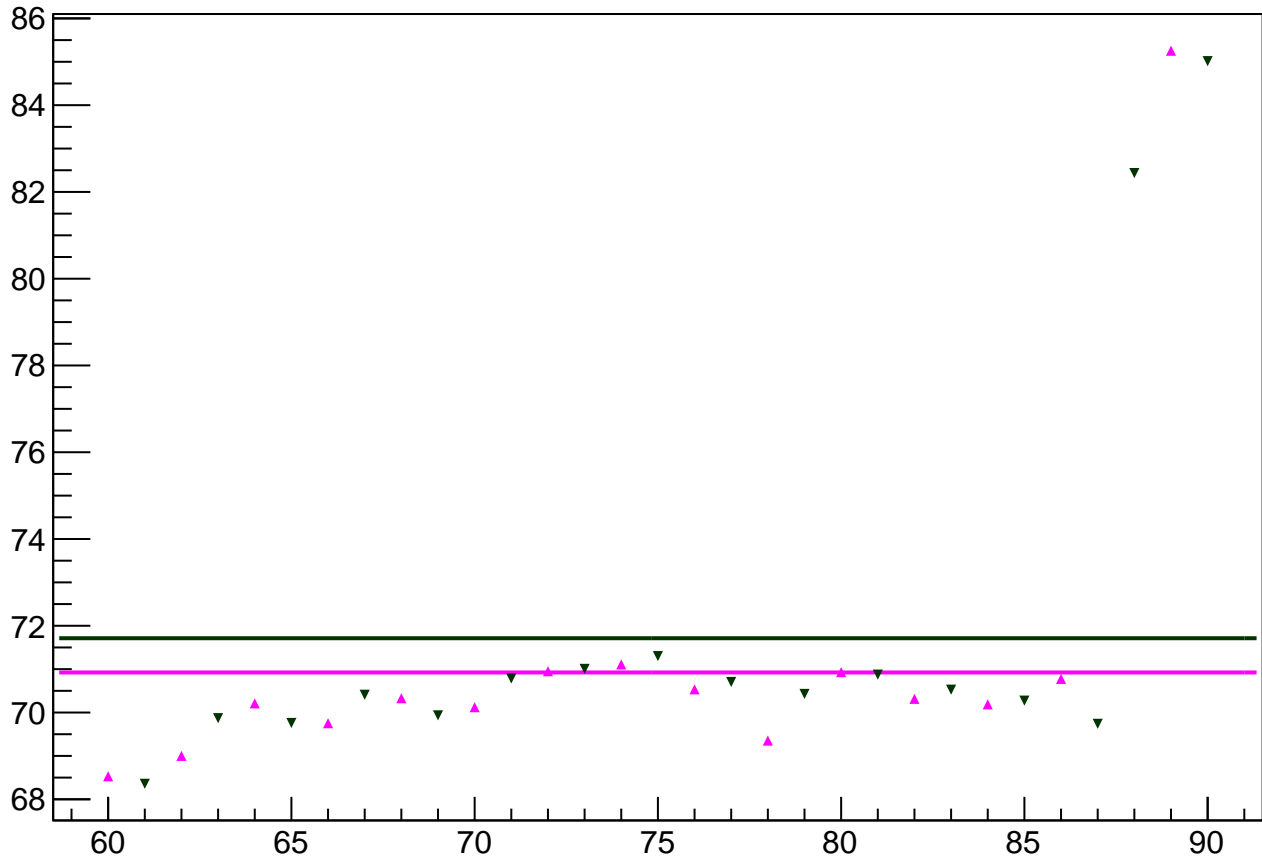
0.006+/-0.000  $\chi^2$ /NDF: 6072.4/15

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

0.007+/-0.000  $\chi^2$ /NDF: 5077.4/14

Left In: 0.007+/-0.000  $\chi^2$ /NDF:5077.4/14

# yield\_cav4cQ\_mean vs slug



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

Left Out: 71.713+/-0.000  $\chi^2/\text{NDF}$ : 2129098241.5/15

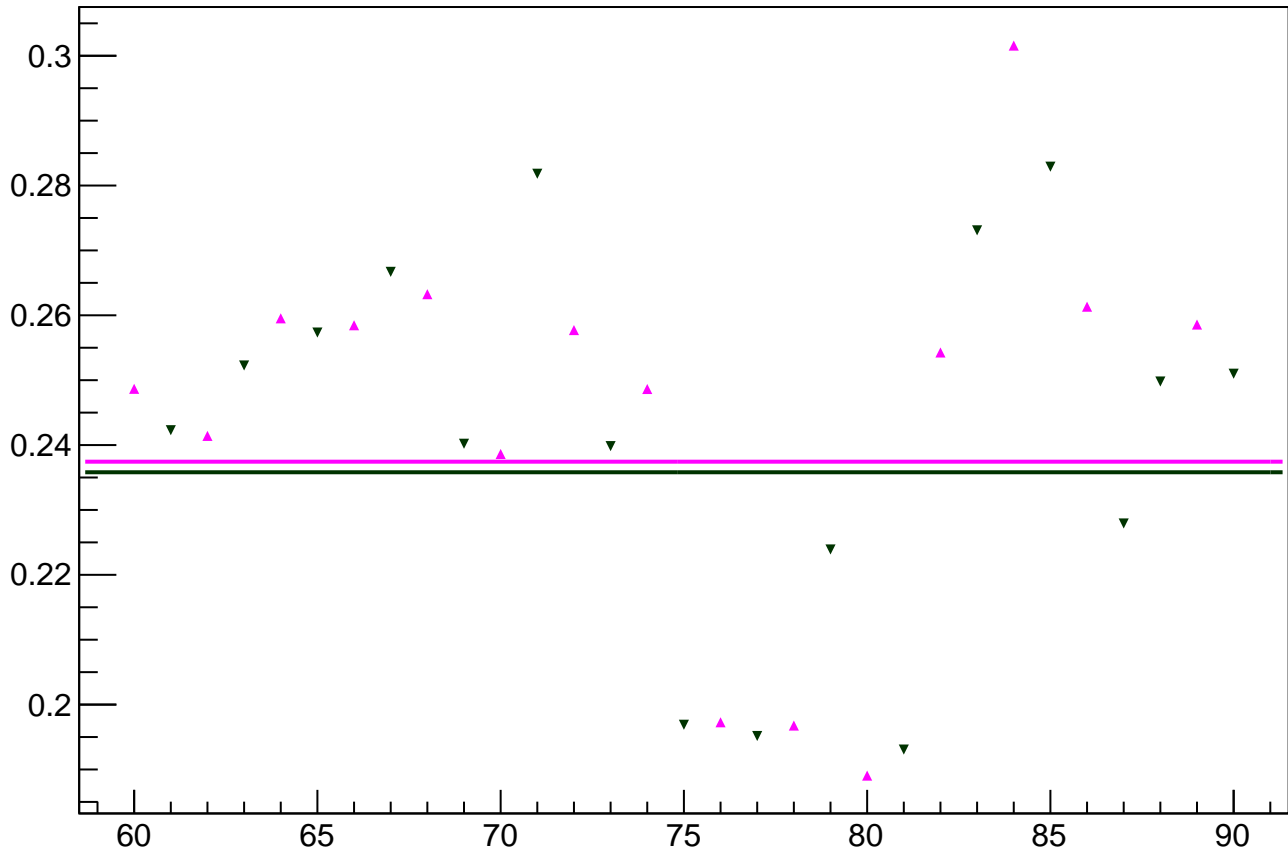
71.713+/-0.000  $\chi^2/\text{NDF}$ : 2129098241.5/15

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

70.924+/-0.000  $\chi^2/\text{NDF}$ : 1469912312.3/14

Left In: 70.924+/-0.000  $\chi^2/\text{NDF}$ : 1469912312.3/14

# yield\_cav4cQ\_rms vs slug



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

Left Out: 0.236+/-0.000  $\chi^2$ /NDF:237650.2/15

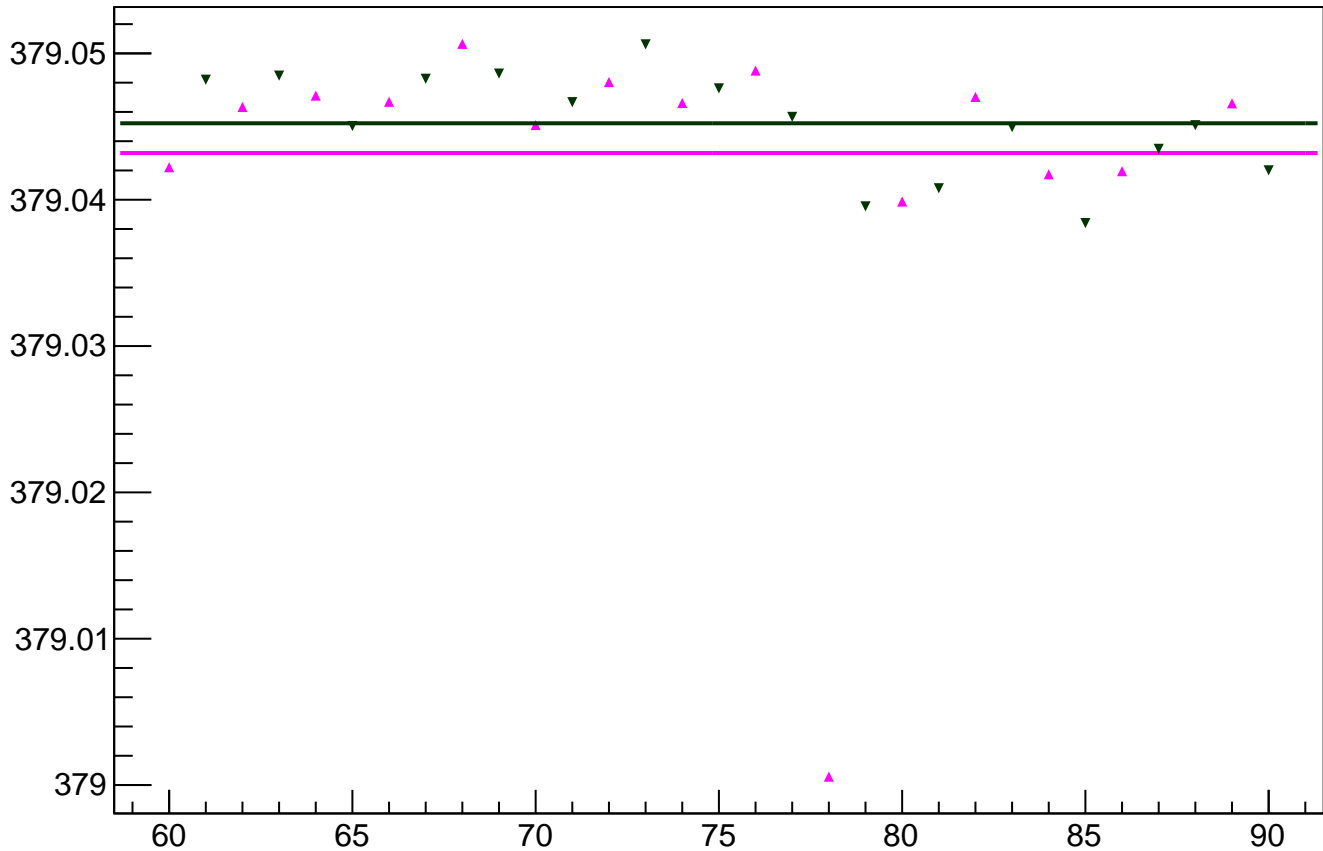
0.236+/-0.000  $\chi^2$ /NDF: 237650.2/15

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

Left In: 0.237+/-0.000  $\chi^2$ /NDF:248924.2/14

0.237+/-0.000  $\chi^2$ /NDF: 248924.2/14

# yield\_cav4dQ\_mean vs slug



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

Left Out: 379.045+/-0.000  $\chi^2$ /NDF:2140148.0/15

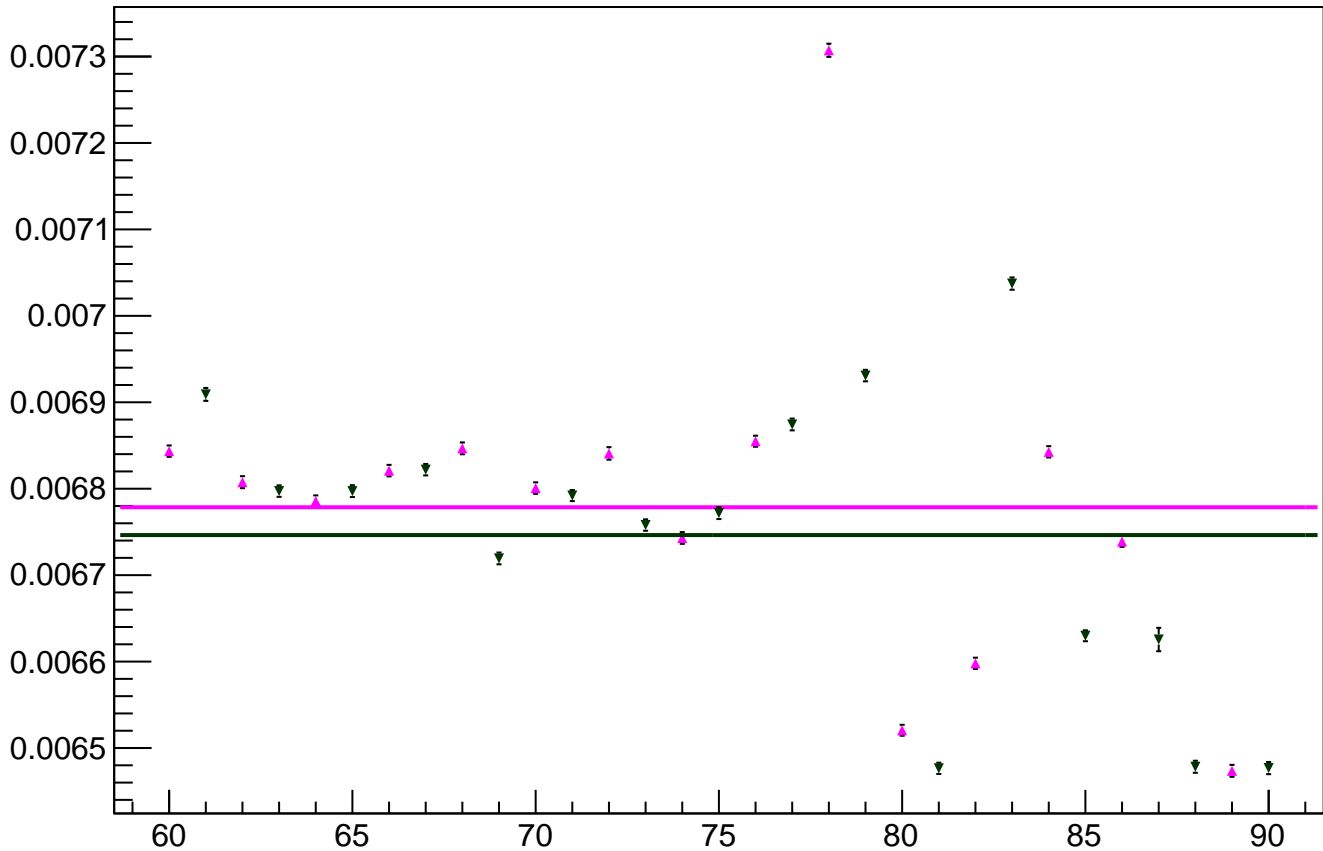
379.045+/-0.000  $\chi^2$ /NDF: 2140148.0/15

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

379.043+/-0.000  $\chi^2$ /NDF: 17857060.9/14

Left In: 379.043+/-0.000  $\chi^2$ /NDF:17857060.9/14

# yield\_cav4dQ\_rms vs slug



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

Left Out: 0.007+/-0.000  $\chi^2$ /NDF:8643.0/15

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

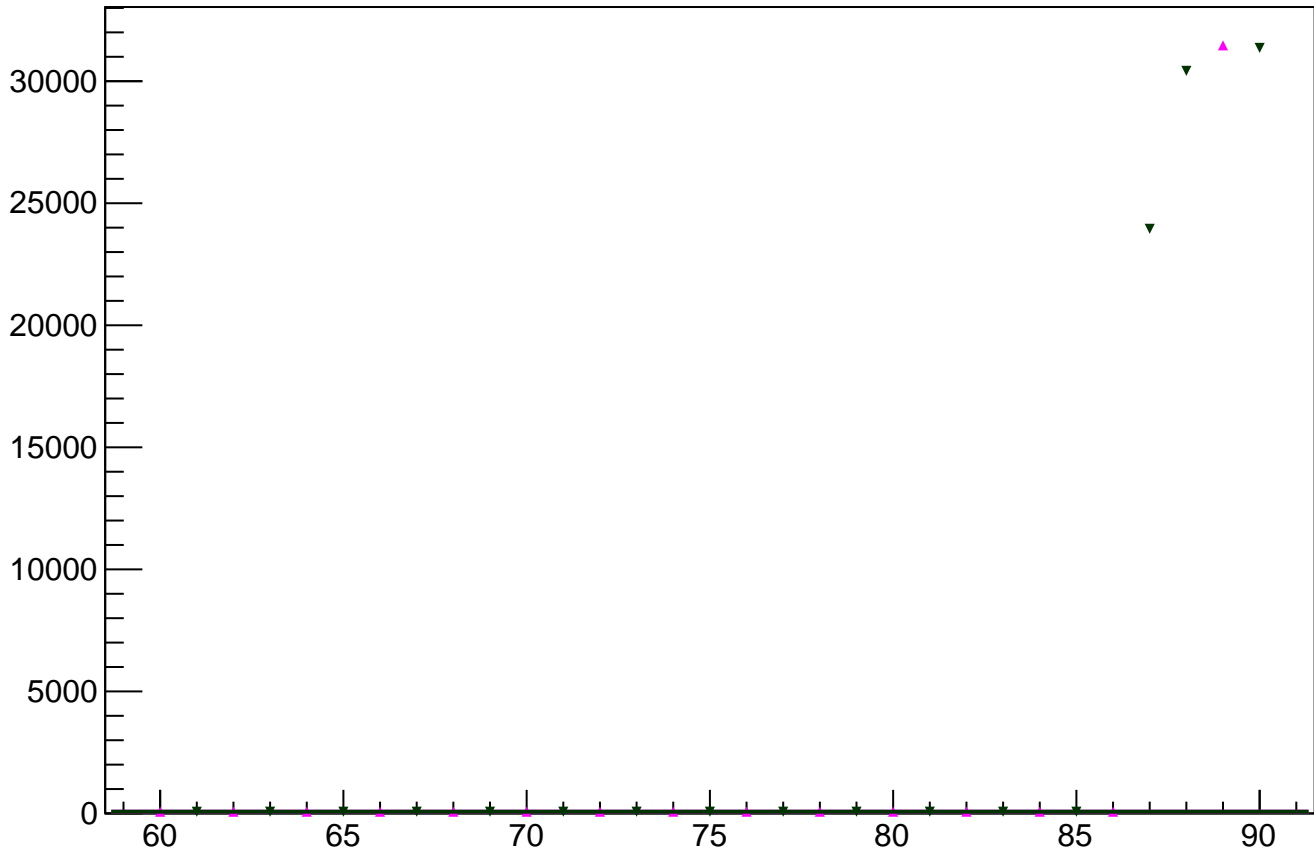
Left In: 0.007+/-0.000  $\chi^2$ /NDF:9806.2/14

0.007+/-0.000  $\chi^2$ /NDF: 8643.0/15

0.007+/-0.000  $\chi^2$ /NDF: 9806.2/14



# yield\_bcm0l02\_mean vs slug



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

Left Out: 71.690+/-0.000  $\chi^2/\text{NDF}$ : 32399681074.3/15

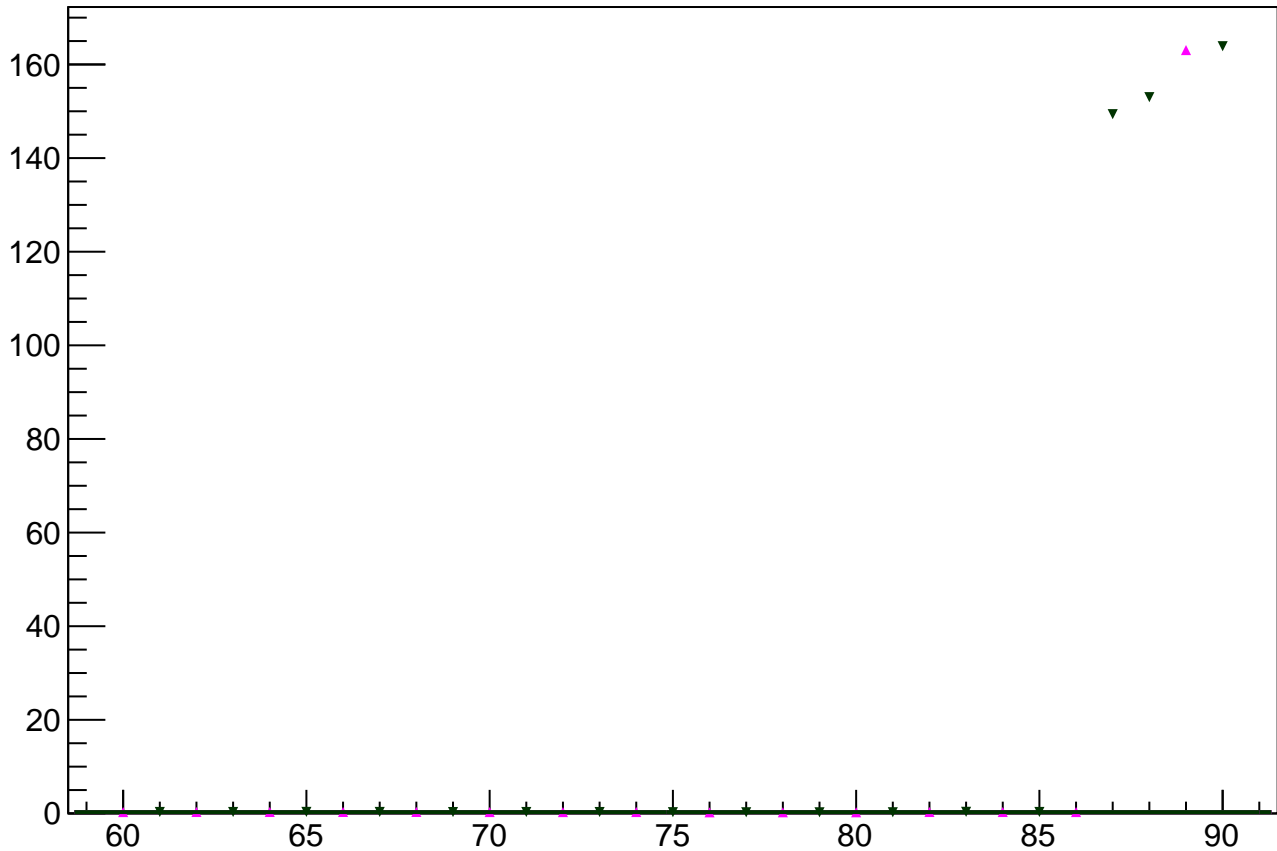
71.690+/-0.000  $\chi^2/\text{NDF}$ : 32399681074.3/15

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

71.520+/-0.000  $\chi^2/\text{NDF}$ : 15729887845.0/14

Left In: 71.520+/-0.000  $\chi^2/\text{NDF}$ : 15729887845.0/14

# yield\_bcm0l02\_rms vs slug



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

Left Out: 0.293+/-0.000  $\chi^2$ /NDF:1932976.3/15

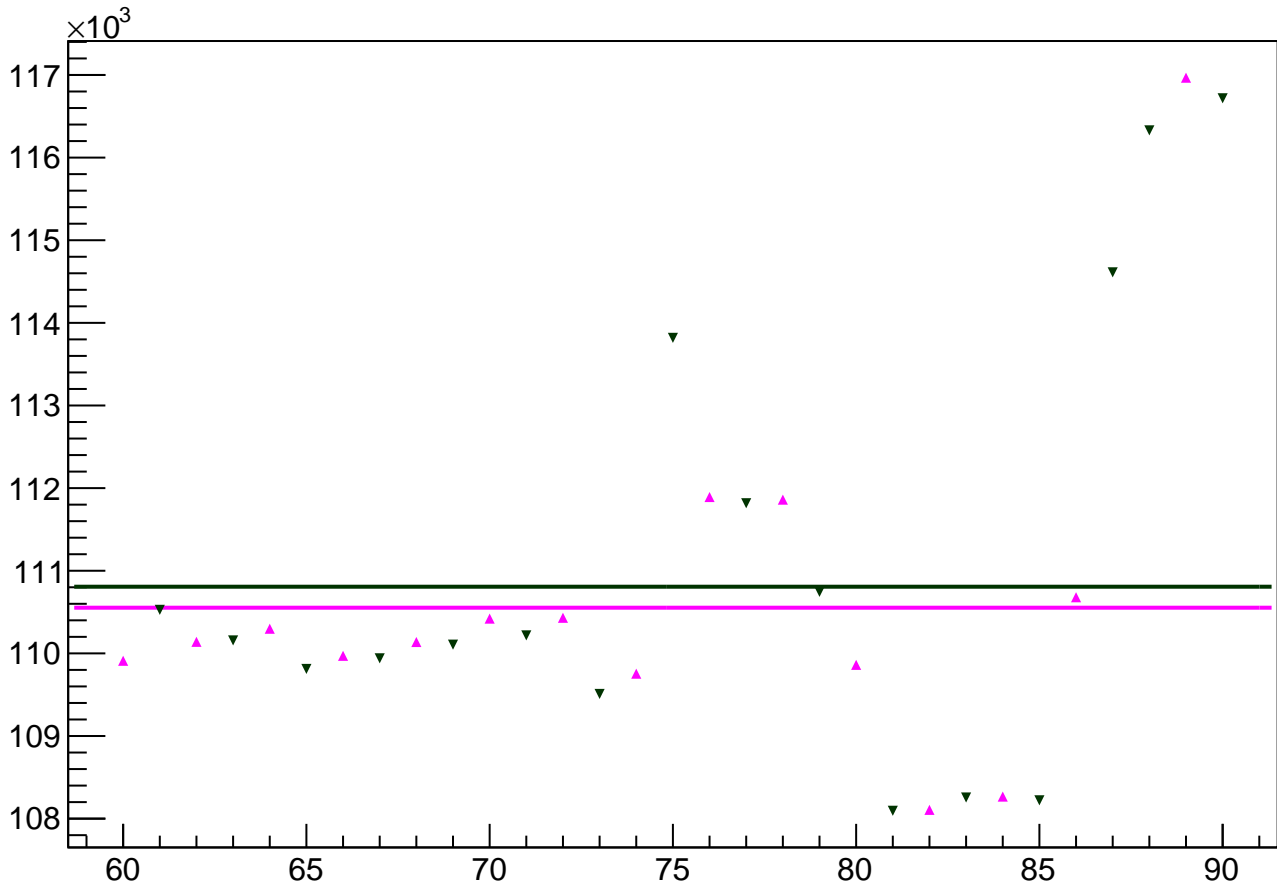
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.293+/-0.000  $\chi^2$ /NDF:978022.2/14

0.293+/-0.000  $\chi^2$ /NDF: 1932976.3/15

0.293+/-0.000  $\chi^2$ /NDF: 978022.2/14

# yield\_bpm2i01WS\_mean vs slug



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

Left Out: 110806.870+/-0.052  $\chi^2$ /NDF: 2125071370.8/15

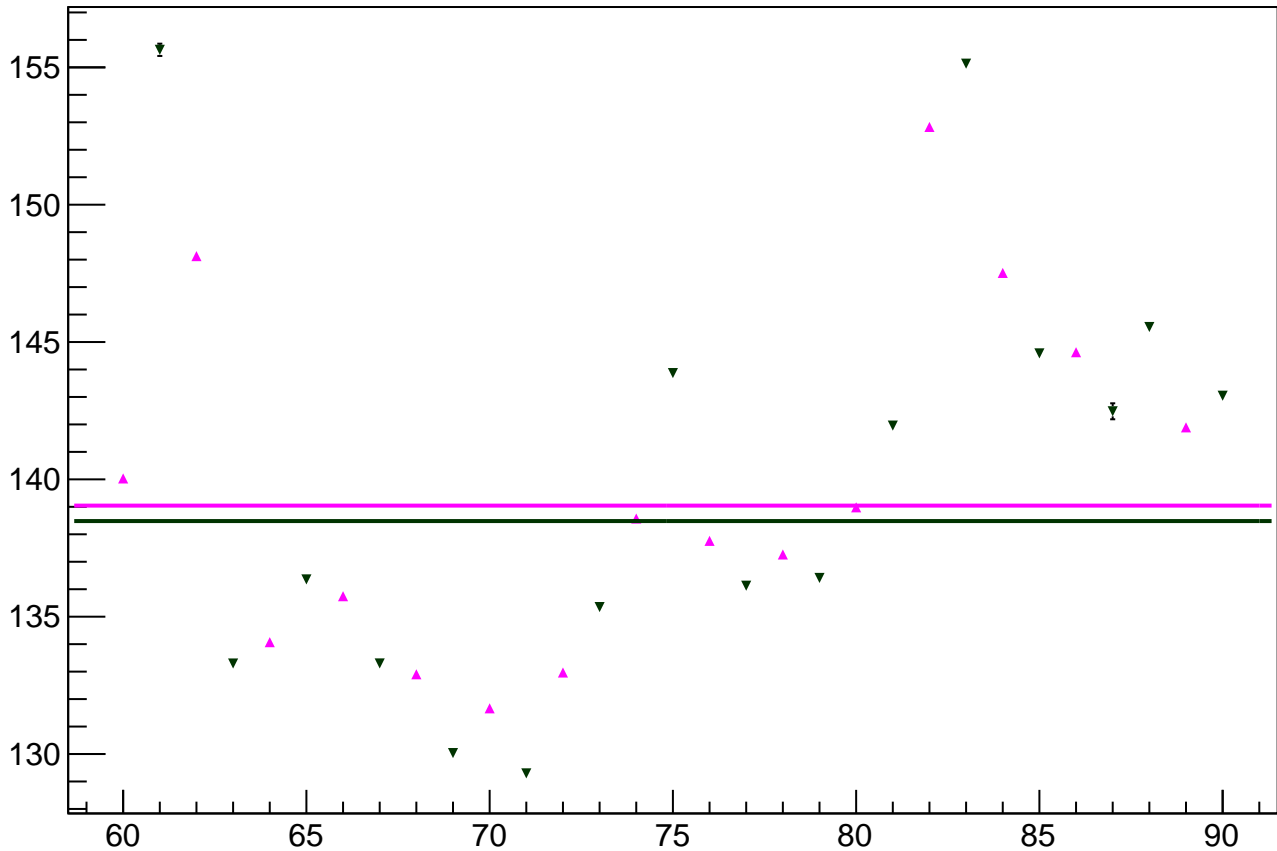
110806.870+/-0.052  $\chi^2$ /NDF: 2125071370.8/15

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

110552.778+/-0.052  $\chi^2$ /NDF: 1280949150.2/14

Left In: 110552.778+/-0.052  $\chi^2$ /NDF: 1280949150.2/14

# yield\_bpm2i01WS\_rms vs slug



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

Left Out: 138.481+/-0.037  $\chi^2/\text{NDF}$ : 37085.1/15

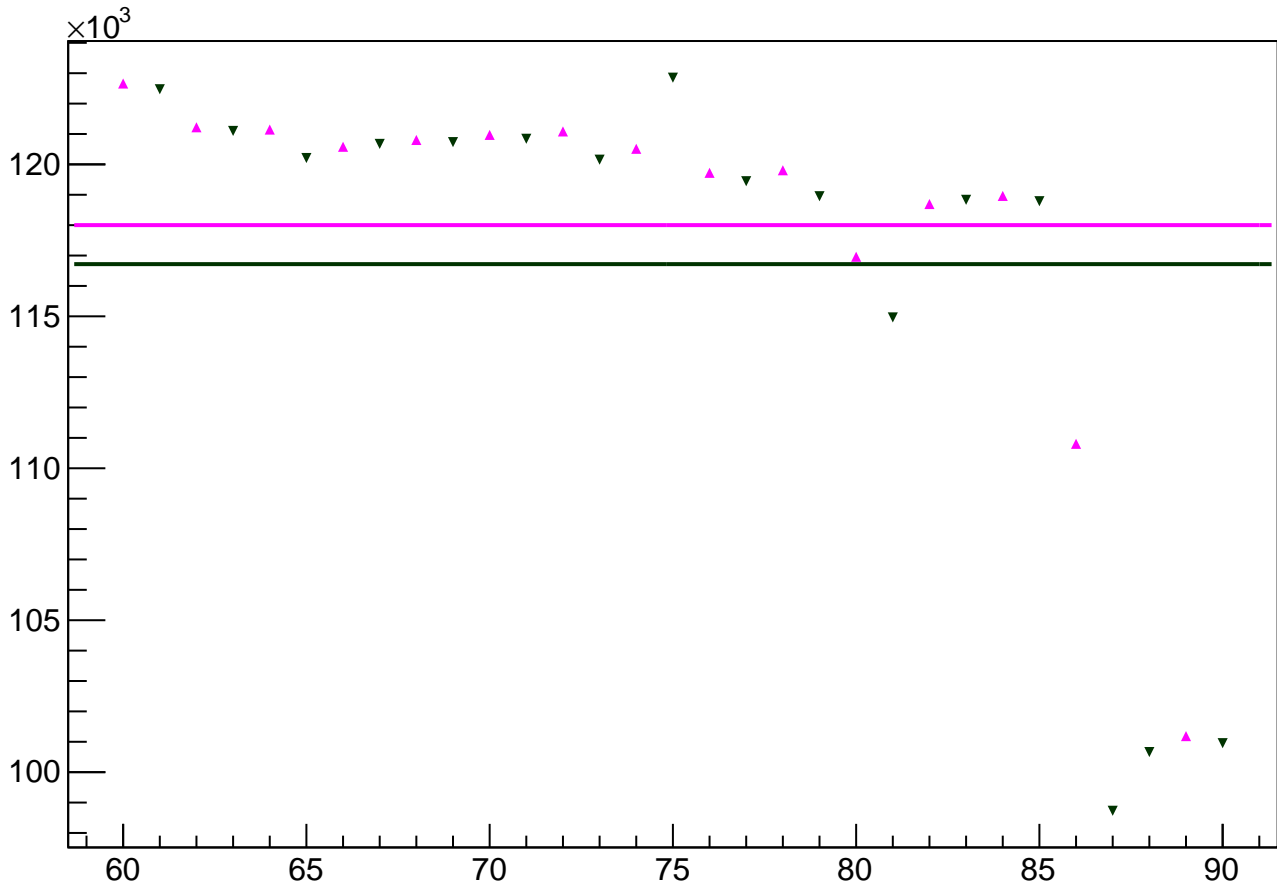
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 139.044+/-0.036  $\chi^2/\text{NDF}$ : 25264.8/14

138.481+/-0.037  $\chi^2/\text{NDF}$ : 37085.1/15

139.044+/-0.036  $\chi^2/\text{NDF}$ : 25264.8/14

# yield\_bpm0i07WS\_mean vs slug



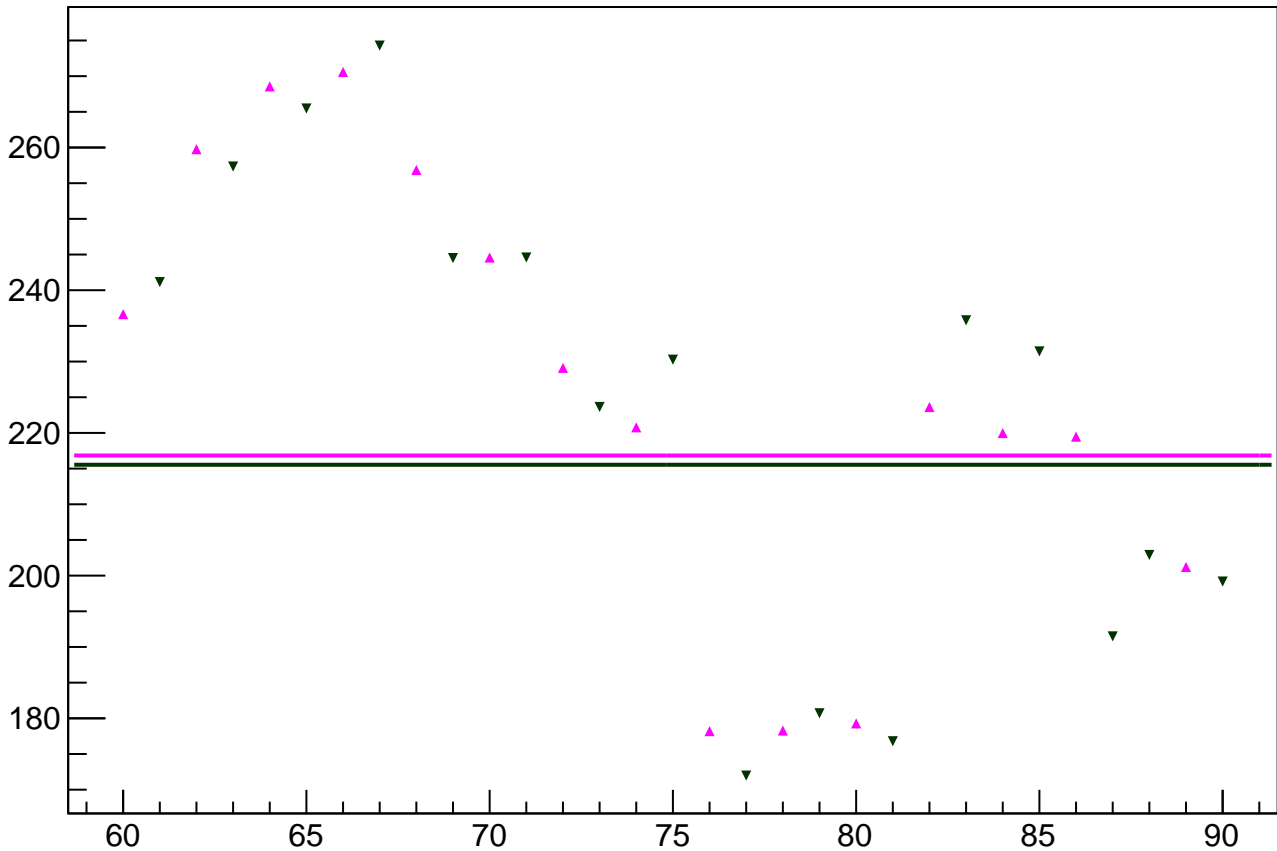
Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 116717.442+/-0.081  $\chi^2$ /NDF:7622419609.0/15

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

Left In: 118001.195+/-0.080  $\chi^2$ /NDF: 4385139458.8/14

# yield\_bpm0i07WS\_rms vs slug



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

Left Out: 215.537+/-0.057  $\chi^2/\text{NDF}$ : 327871.9/15

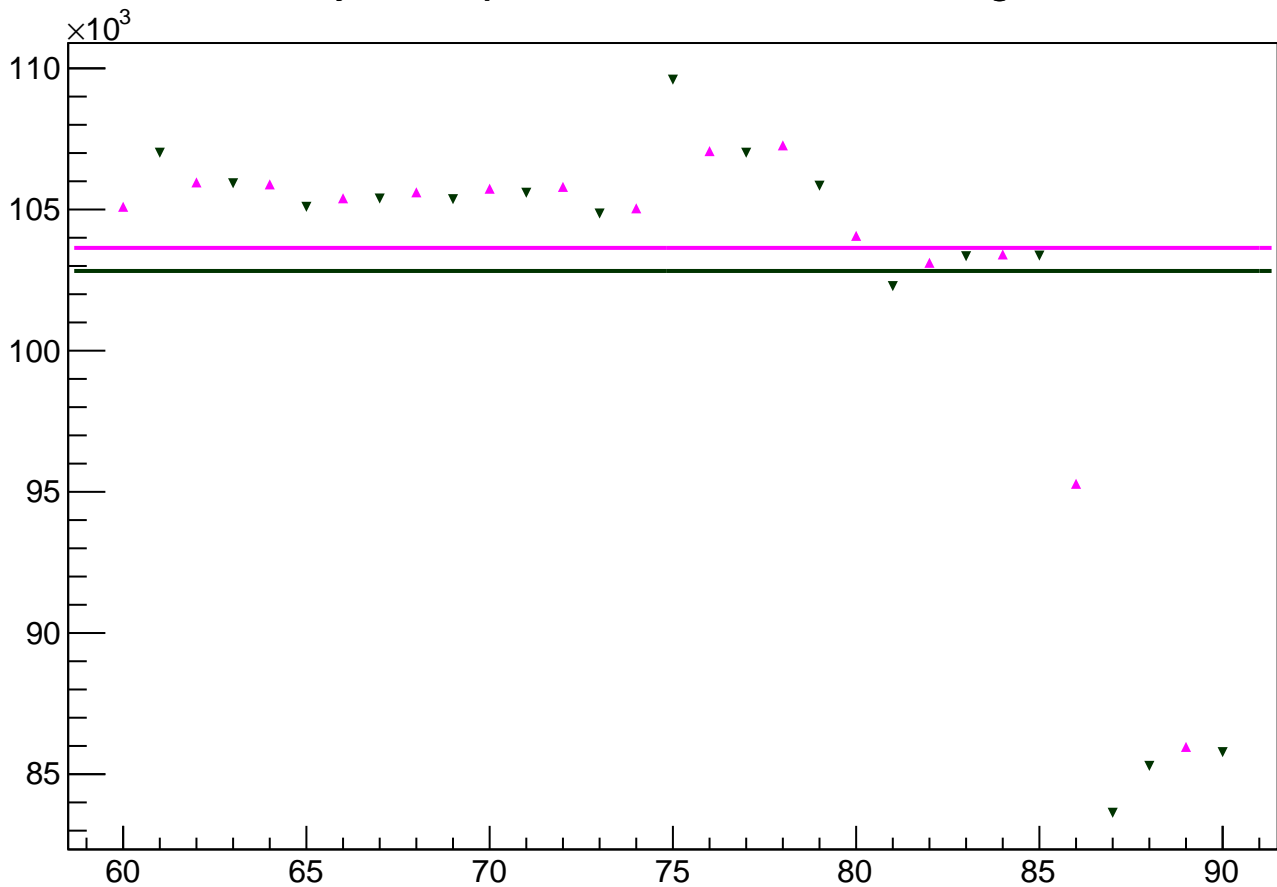
215.537+/-0.057  $\chi^2/\text{NDF}$ : 327871.9/15

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

216.836+/-0.057  $\chi^2/\text{NDF}$ : 299795.4/14

Left In: 216.836+/-0.057  $\chi^2/\text{NDF}$ : 299795.4/14

# yield\_bpm0l01WS\_mean vs slug



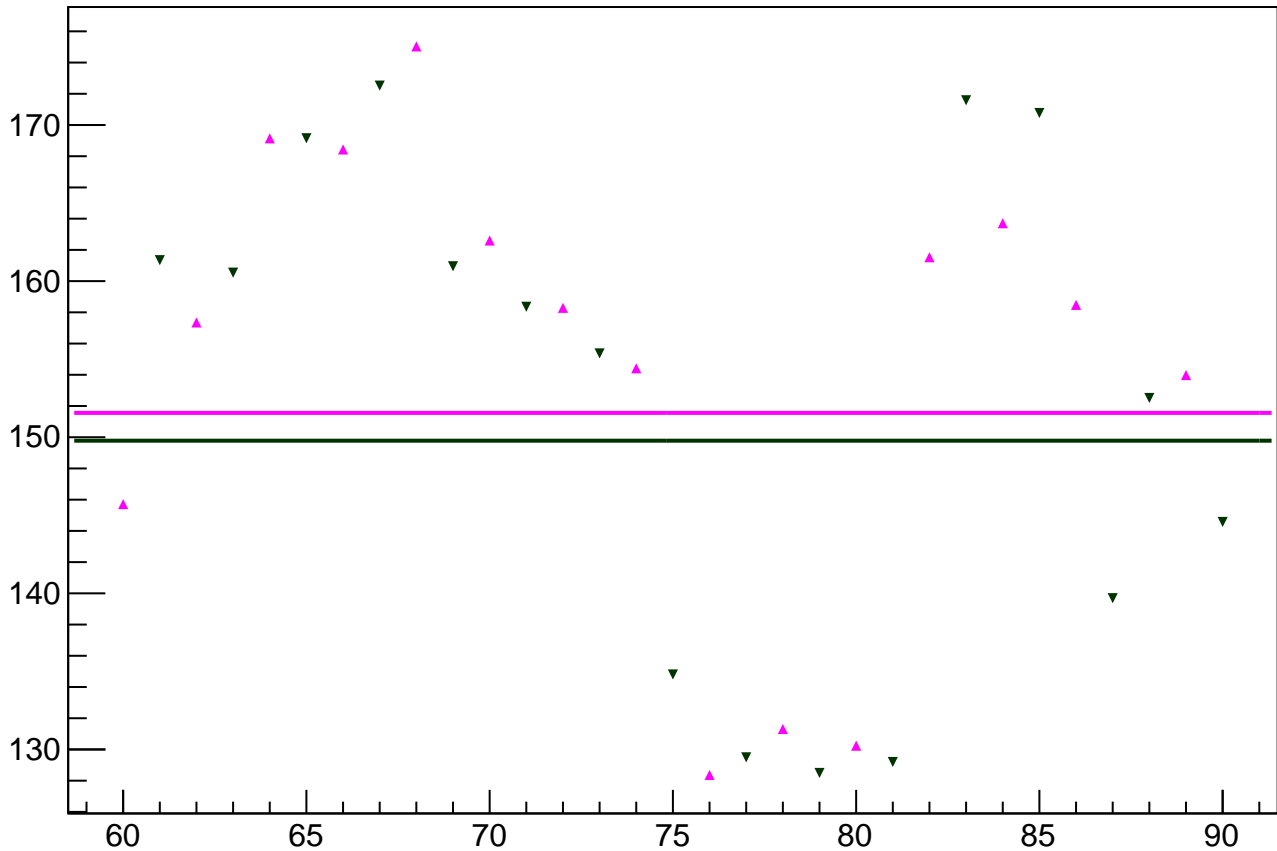
Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 102823.365+/-0.056  $\chi^2$ /NDF: 15909436633.2/15

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

Left In: 103640.452+/-0.056  $\chi^2$ /NDF: 8489070452.3/14

# yield\_bpm0l01WS\_rms vs slug



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

Left Out: 149.778+/-0.039  $\chi^2$ /NDF:172240.5/15

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

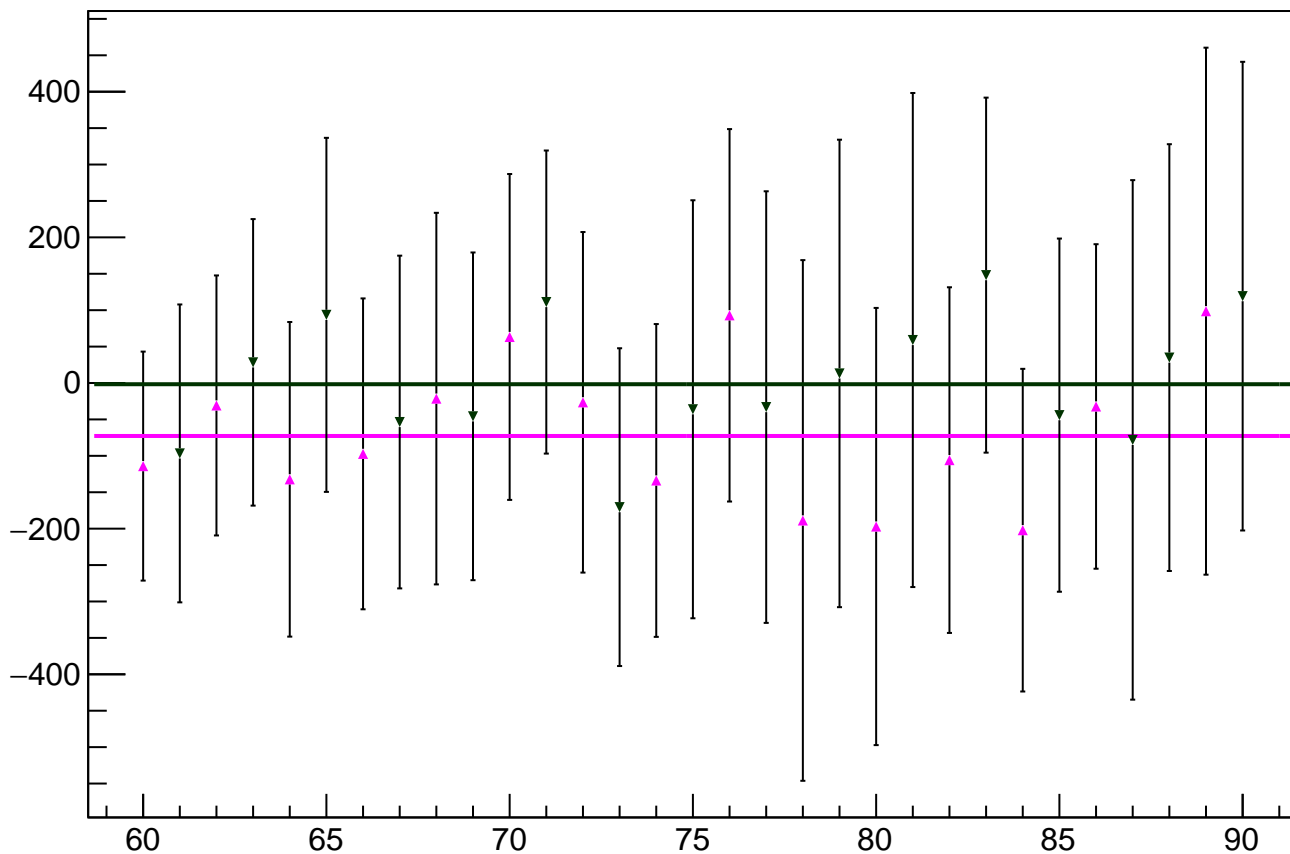
Left In: 151.560+/-0.039  $\chi^2$ /NDF:148317.5/14

149.778+/-0.039  $\chi^2$ /NDF: 172240.5/15

151.560+/-0.039  $\chi^2$ /NDF: 148317.5/14



# asym\_bcm\_an\_ds\_mean vs slug



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

Left Out: -1.671+/-62.670  $\chi^2/\text{NDF}$ : 2.0/15

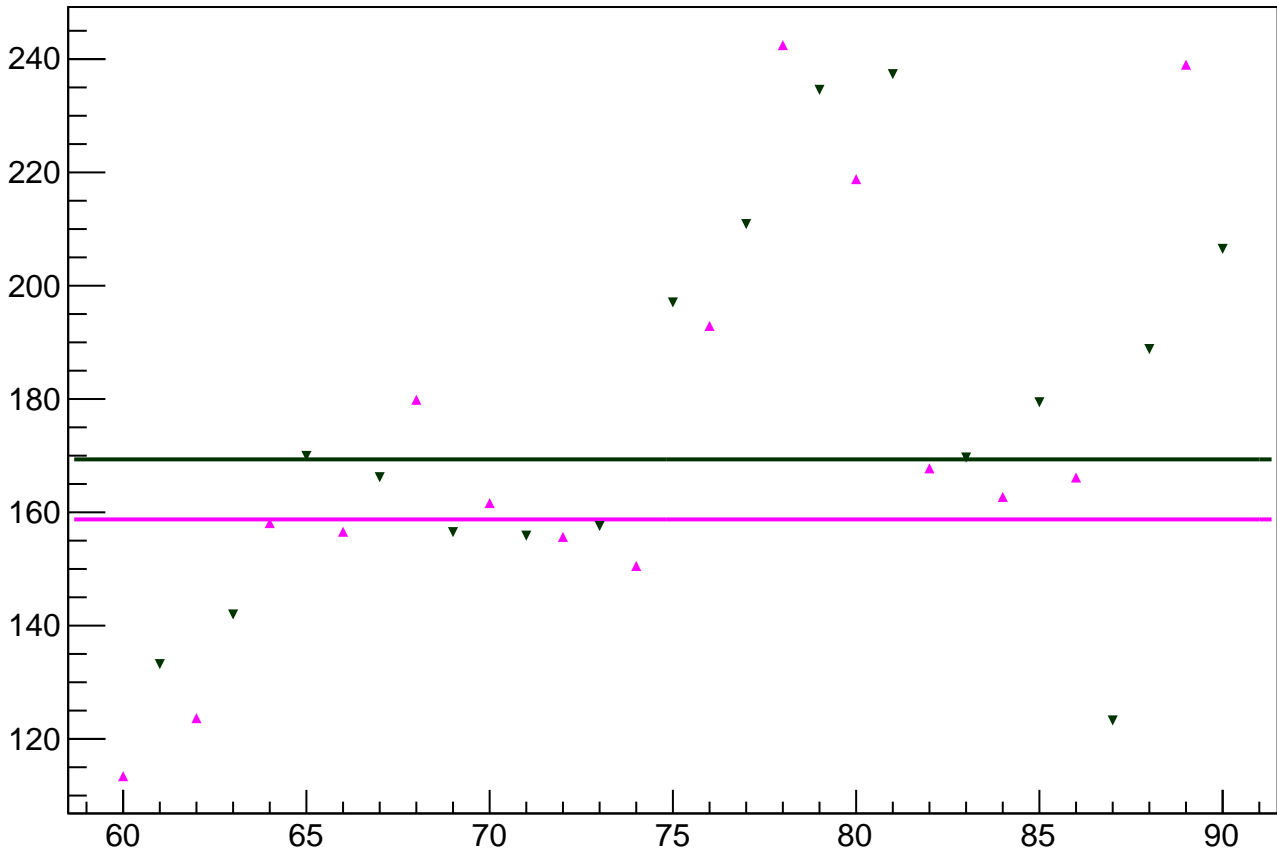
-1.671+/-62.670  $\chi^2/\text{NDF}$ : 2.0/15

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

-72.732+/-58.657  $\chi^2/\text{NDF}$ : 2.1/14

Left In: -72.732+/-58.657  $\chi^2/\text{NDF}$ : 2.1/14

# asym\_bcm\_an\_ds\_rms vs slug



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

169.345+/-0.044  $\chi^2$ /NDF: 415537.8/15

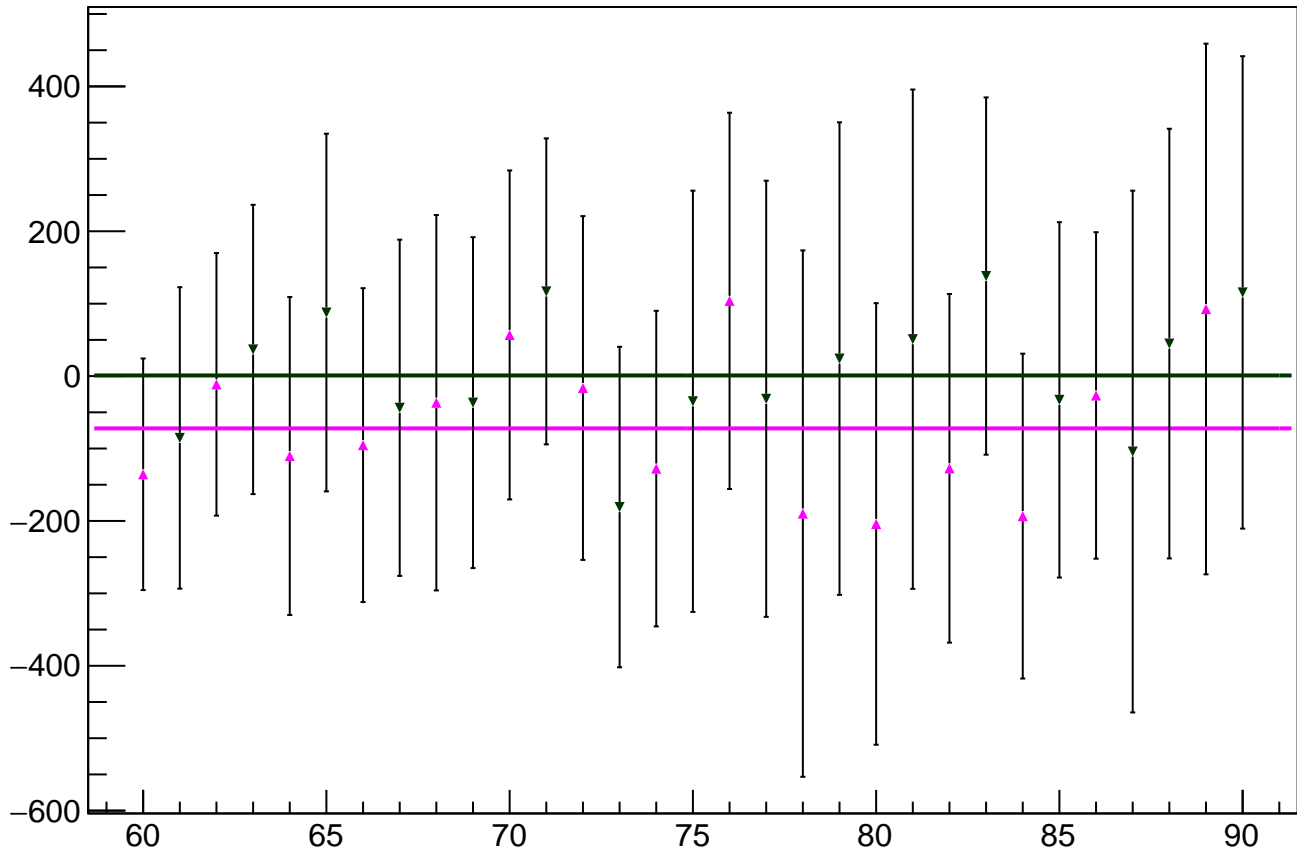
Left Out: 169.345+/-0.044  $\chi^2$ /NDF: 415537.8/15

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

158.747+/-0.041  $\chi^2$ /NDF: 590607.6/14

Left In: 158.747+/-0.041  $\chi^2$ /NDF: 590607.6/14

# asym\_bcm\_an\_ds3\_mean vs slug



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

Left Out: 0.896+/-63.591  $\chi^2/\text{NDF}$ : 2.0/15

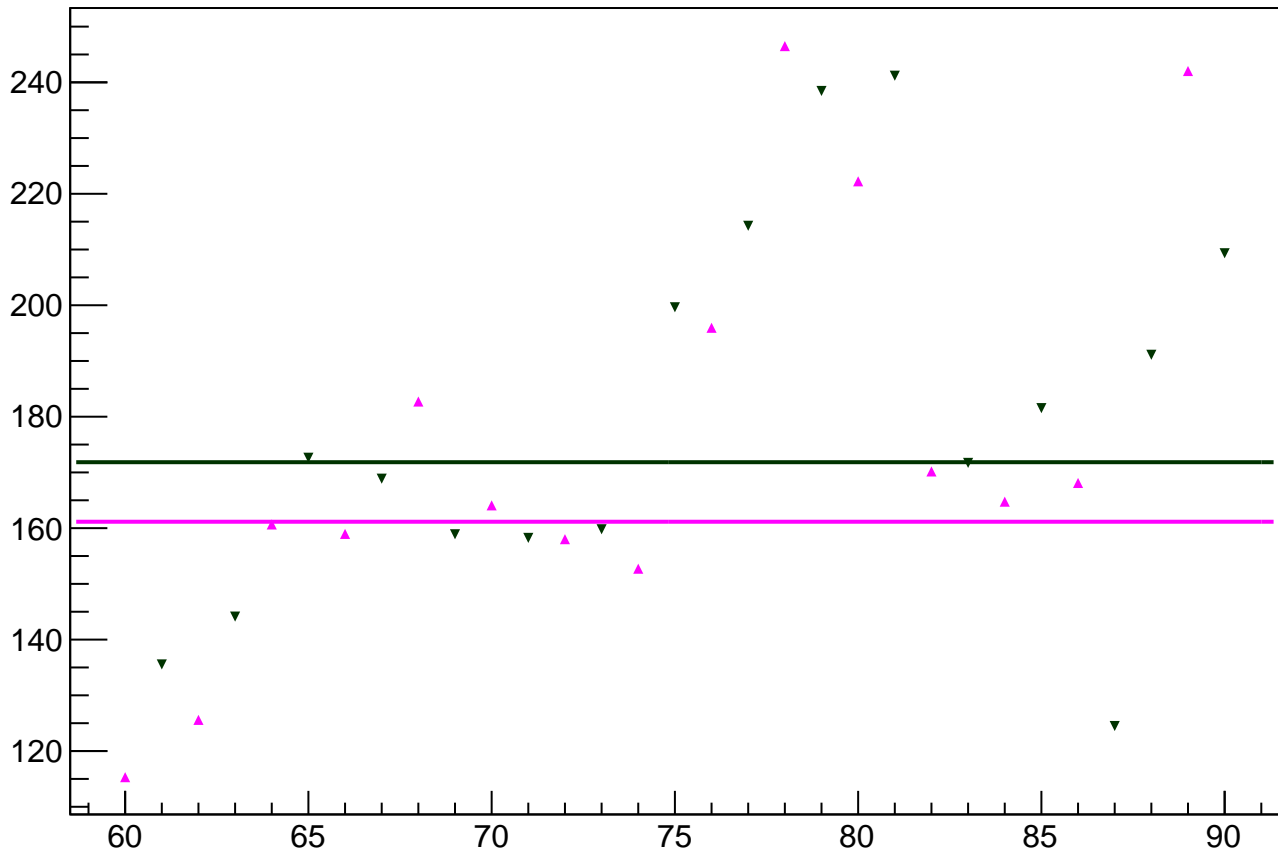
0.896+/-63.591  $\chi^2/\text{NDF}$ : 2.0/15

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

-72.198+/-59.539  $\chi^2/\text{NDF}$ : 2.1/14

Left In: -72.198+/-59.539  $\chi^2/\text{NDF}$ : 2.1/14

# asym\_bcm\_an\_ds3\_rms vs slug



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

Left Out: 171.835+/-0.045  $\chi^2$ /NDF:415108.5/15

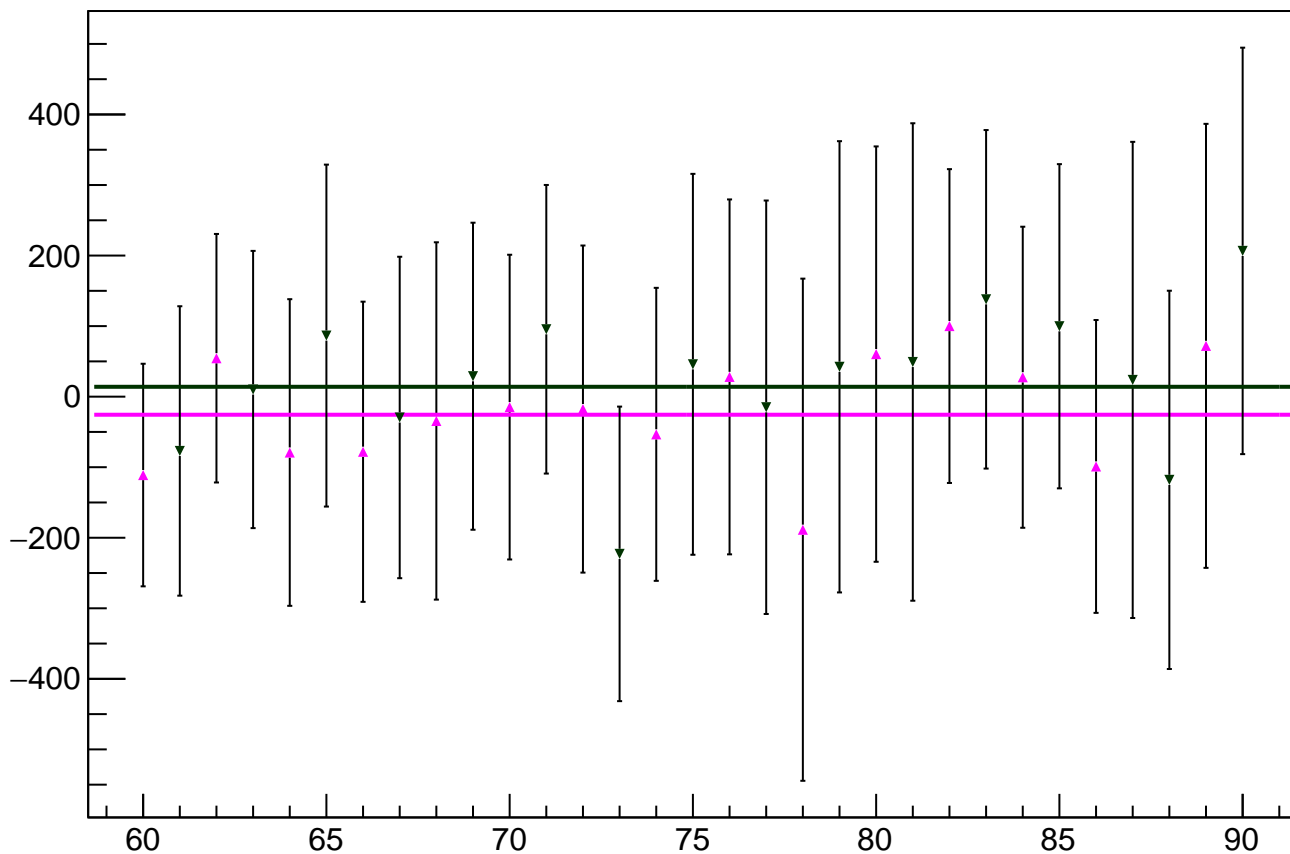
171.835+/-0.045  $\chi^2$ /NDF: 415108.5/15

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

161.151+/-0.042  $\chi^2$ /NDF: 588291.7/14

Left In: 161.151+/-0.042  $\chi^2$ /NDF:588291.7/14

# asym\_bcm\_an\_us\_mean vs slug



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

Left Out: 13.987+/-60.988  $\chi^2/\text{NDF}$ : 2.9/15

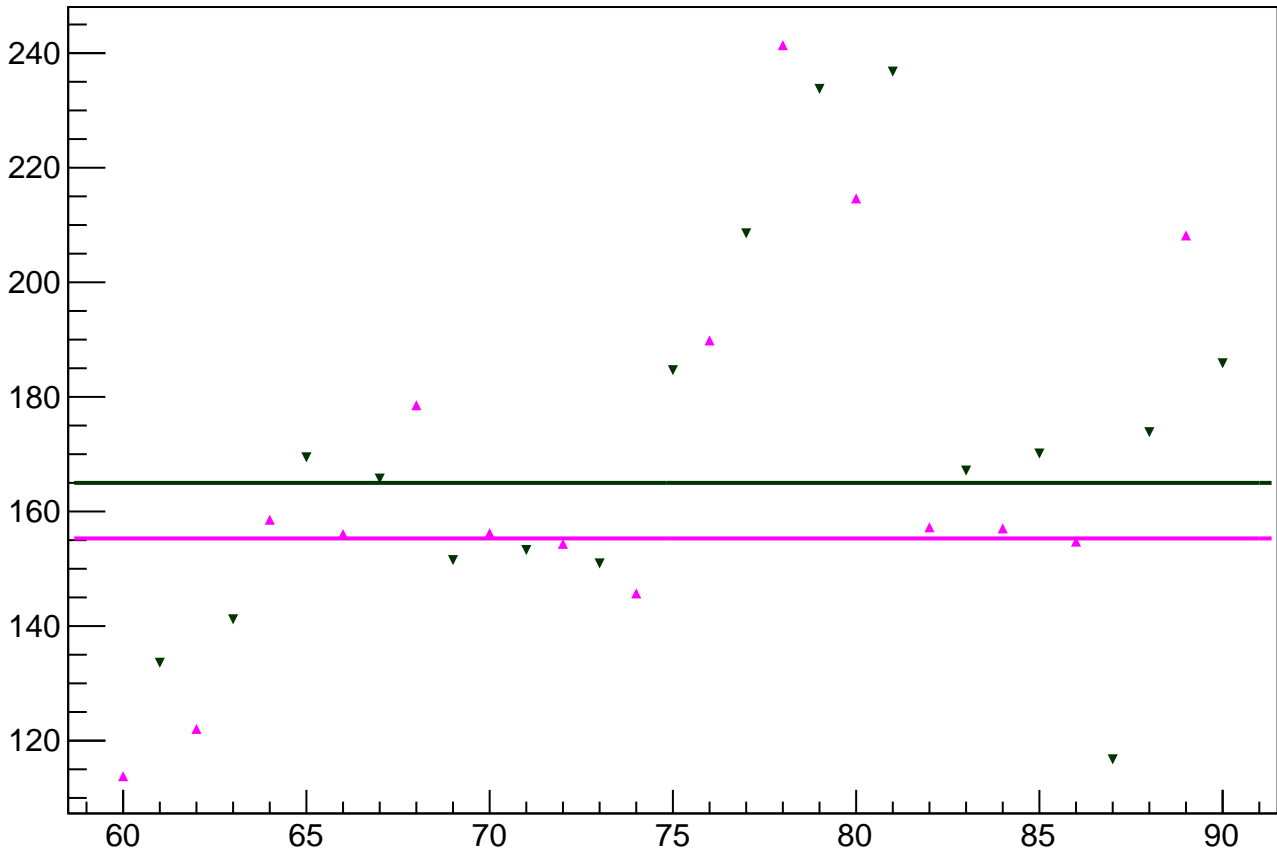
13.987+/-60.988  $\chi^2/\text{NDF}$ : 2.9/15

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

-25.630+/-57.239  $\chi^2/\text{NDF}$ : 1.6/14

Left In: -25.630+/-57.239  $\chi^2/\text{NDF}$ : 1.6/14

# asym\_bcm\_an\_us\_rms vs slug



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

164.994+/-0.043  $\chi^2$ /NDF: 392188.7/15

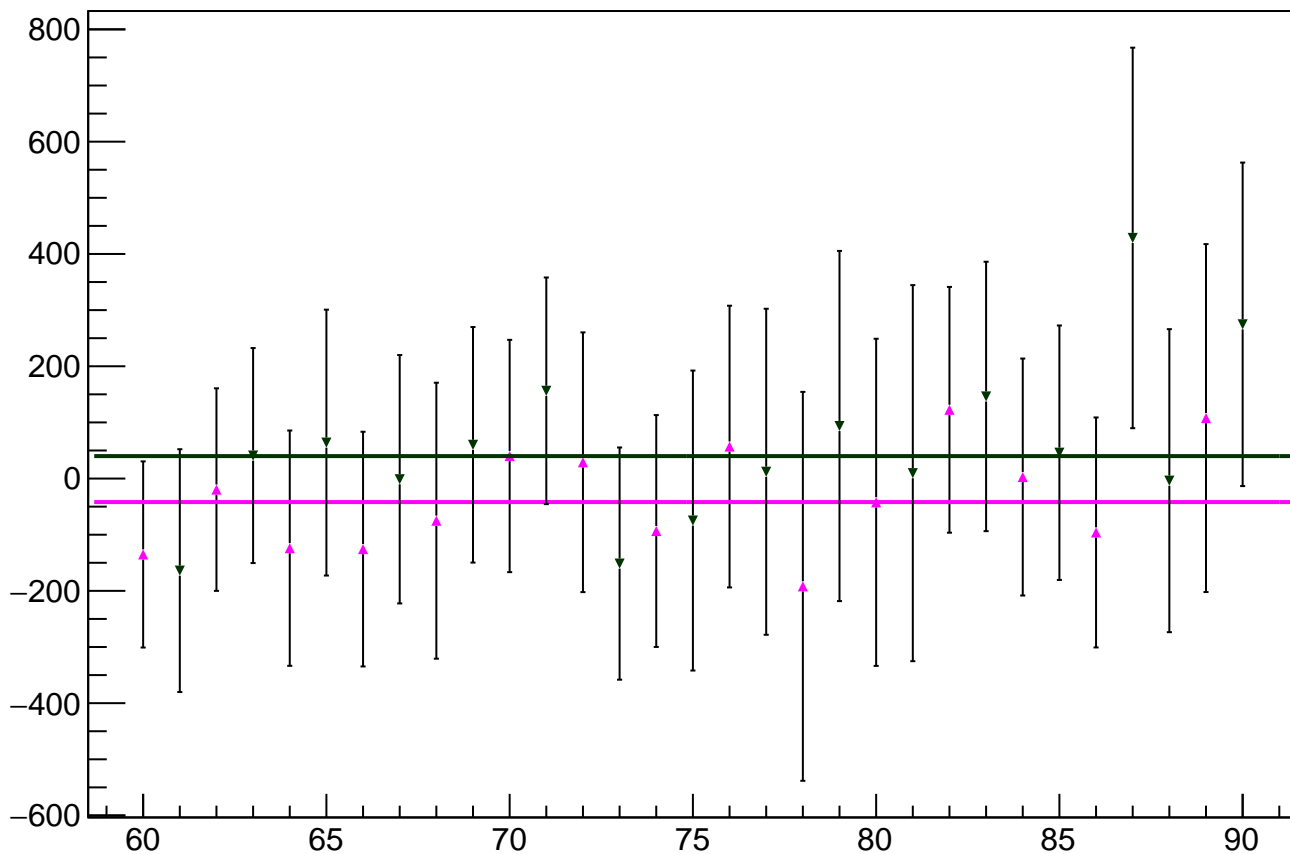
Left Out: 164.994+/-0.043  $\chi^2$ /NDF:392188.7/15

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

155.297+/-0.040  $\chi^2$ /NDF: 524209.0/14

Left In: 155.297+/-0.040  $\chi^2$ /NDF:524209.0/14

# asym\_bcm\_dg\_us\_mean vs slug



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

Left Out: 40.008+/-60.407  $\chi^2/\text{NDF}$ : 4.6/15

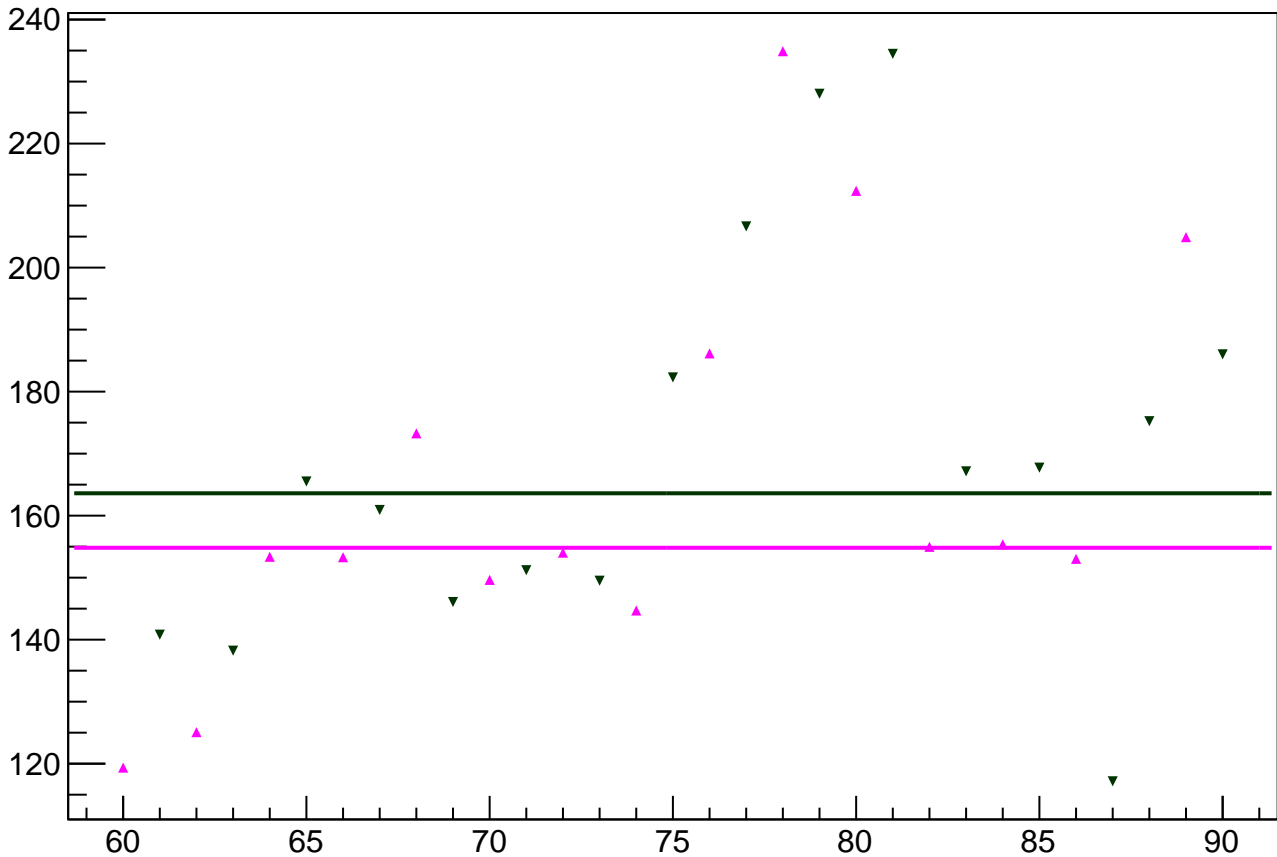
40.008+/-60.407  $\chi^2/\text{NDF}$ : 4.6/15

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

-41.866+/-56.935  $\chi^2/\text{NDF}$ : 2.2/14

Left In: -41.866+/-56.935  $\chi^2/\text{NDF}$ : 2.2/14

# asym\_bcm\_dg\_us\_rms vs slug



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

163.606+/-0.043  $\chi^2/\text{NDF}$ : 371809.7/15

Left Out: 163.606+/-0.043  $\chi^2/\text{NDF}$ : 371809.7/15

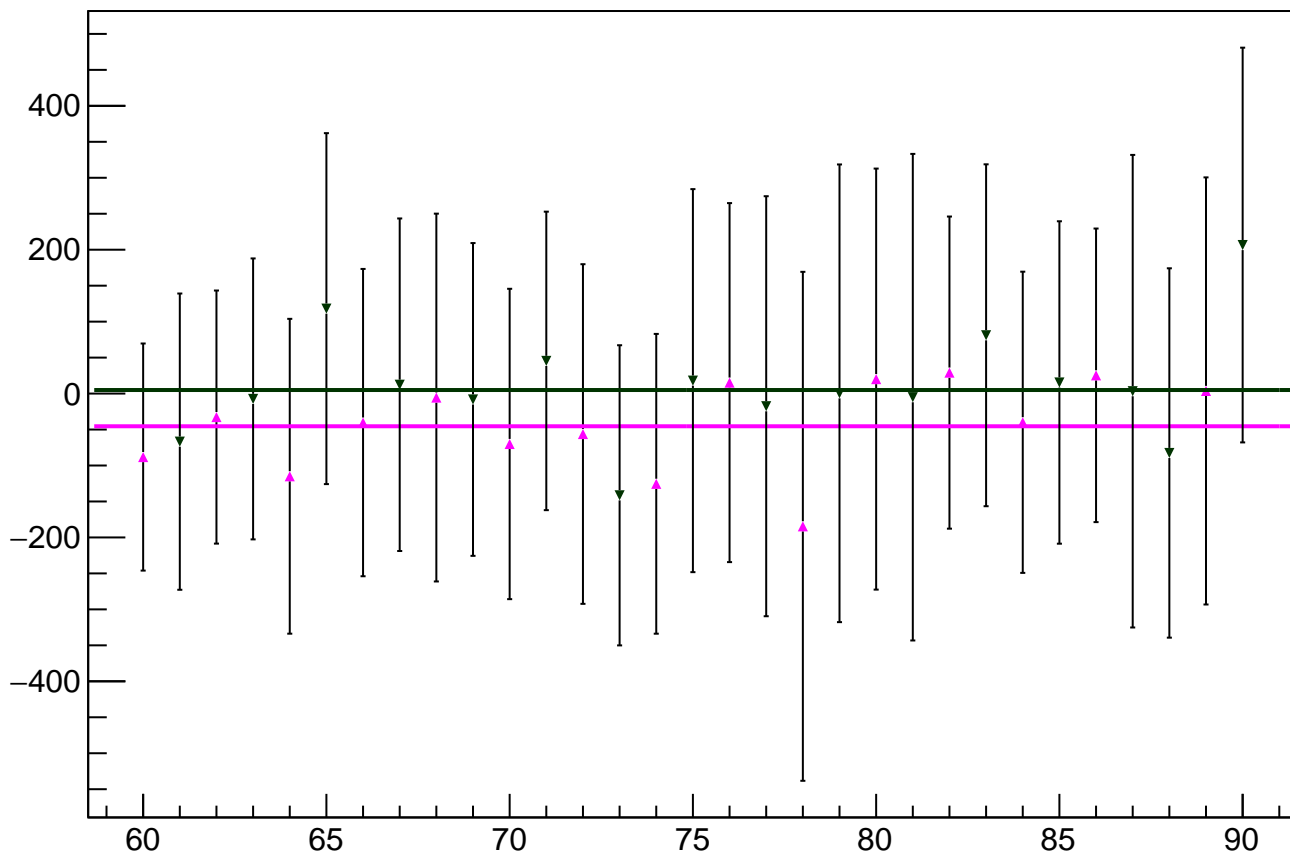
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

154.819+/-0.040  $\chi^2/\text{NDF}$ : 432104.0/14

Left In: 154.819+/-0.040  $\chi^2/\text{NDF}$ : 432104.0/14



# asym\_bcm\_dg\_ds\_mean vs slug



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

Left Out: 4.943+/-60.581  $\chi^2/\text{NDF}$ : 1.6/15

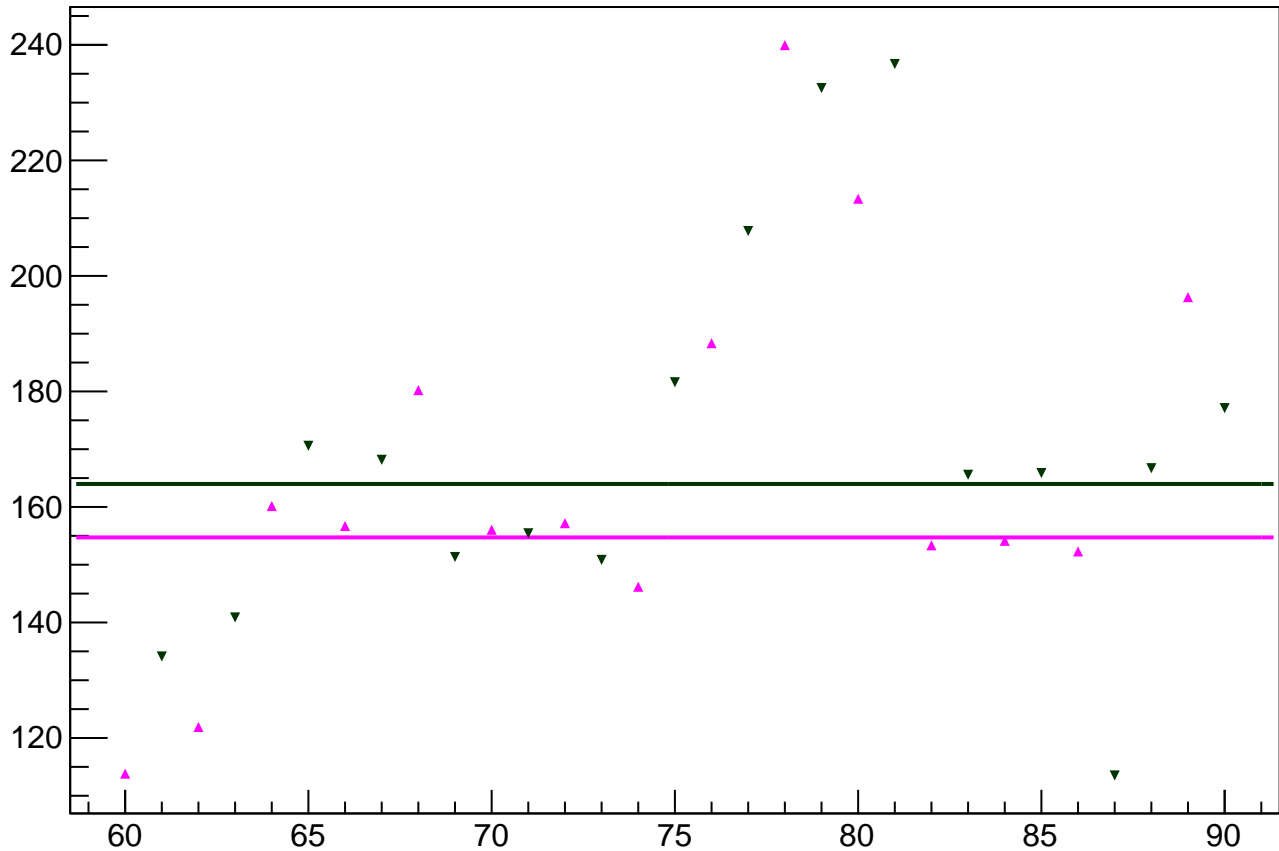
4.943+/-60.581  $\chi^2/\text{NDF}$ : 1.6/15

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

-45.447+/-56.967  $\chi^2/\text{NDF}$ : 0.9/14

Left In: -45.447+/-56.967  $\chi^2/\text{NDF}$ : 0.9/14

# asym\_bcm\_dg\_ds\_rms vs slug



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

Left Out: 163.981+/-0.043  $\chi^2$ /NDF:381538.0/15

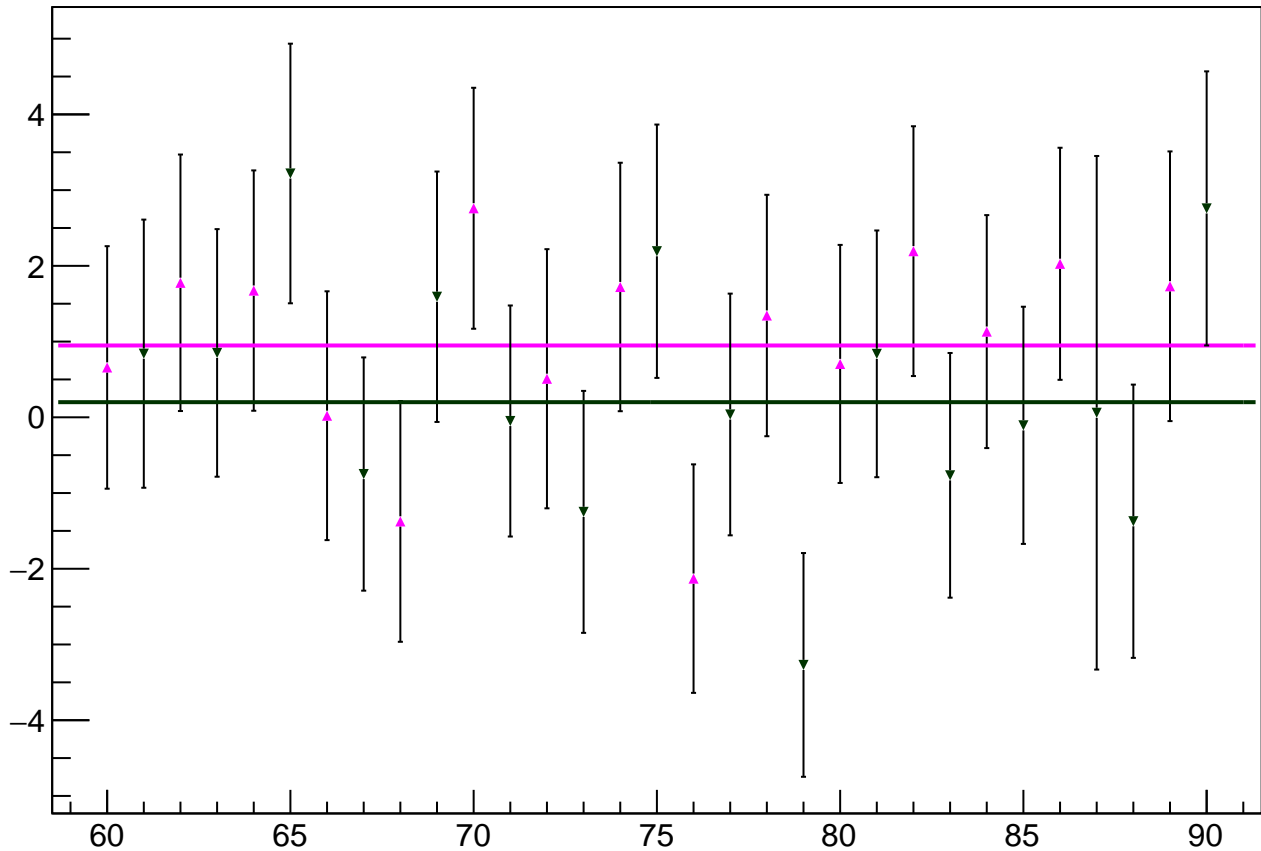
163.981+/-0.043  $\chi^2$ /NDF: 381538.0/15

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

Left In: 154.727+/-0.040  $\chi^2$ /NDF:501099.5/14

154.727+/-0.040  $\chi^2$ /NDF: 501099.5/14

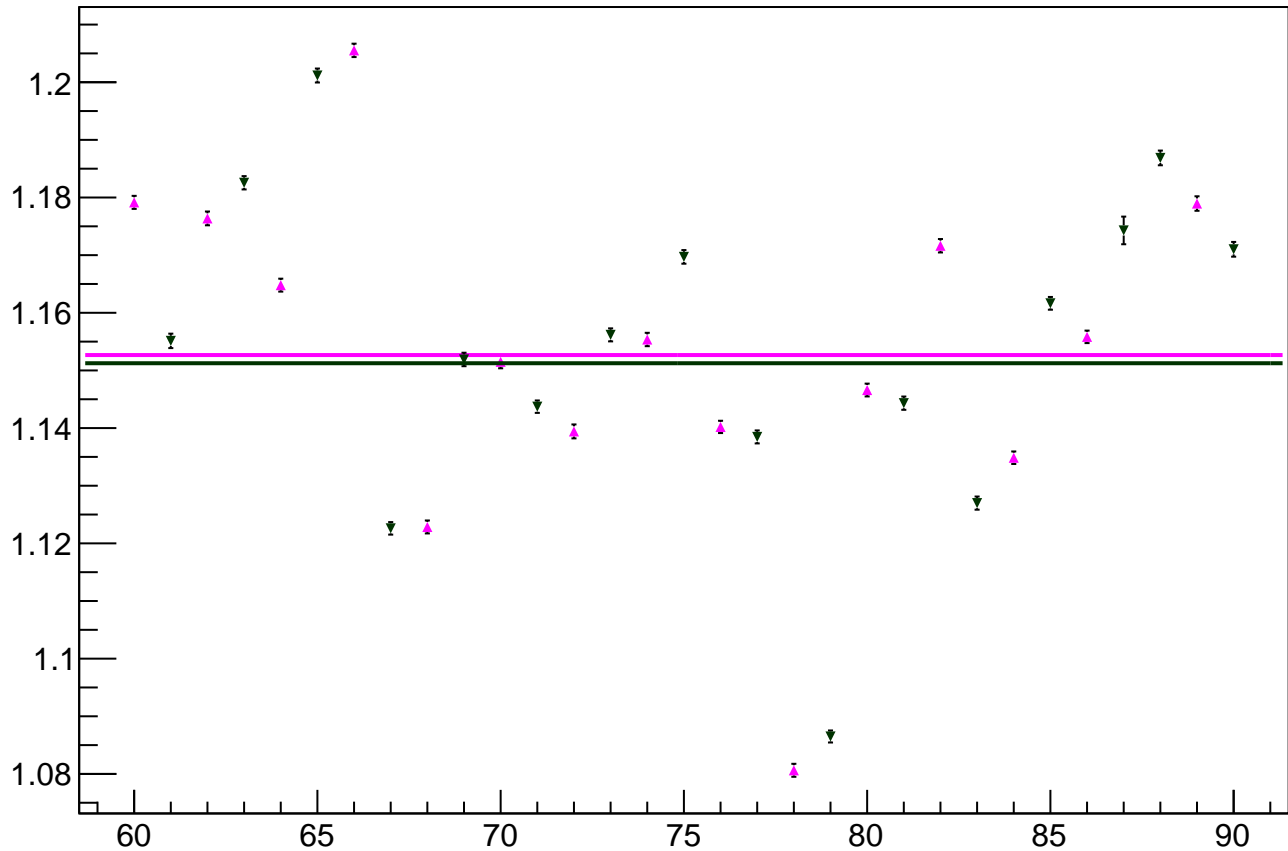
# asym\_cav4bQ\_mean vs slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.200 $\pm$ 0.418  $\chi^2$ /NDF:15.6/15  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.948 $\pm$ 0.416  $\chi^2$ /NDF:10.0/14

0.200 $\pm$ 0.418  $\chi^2$ /NDF: 15.6/15  
0.948 $\pm$ 0.416  $\chi^2$ /NDF: 10.0/14

# asym\_cav4bQ\_rms vs slug



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

Left Out: 1.151+/-0.000  $\chi^2$ /NDF:9097.6/15

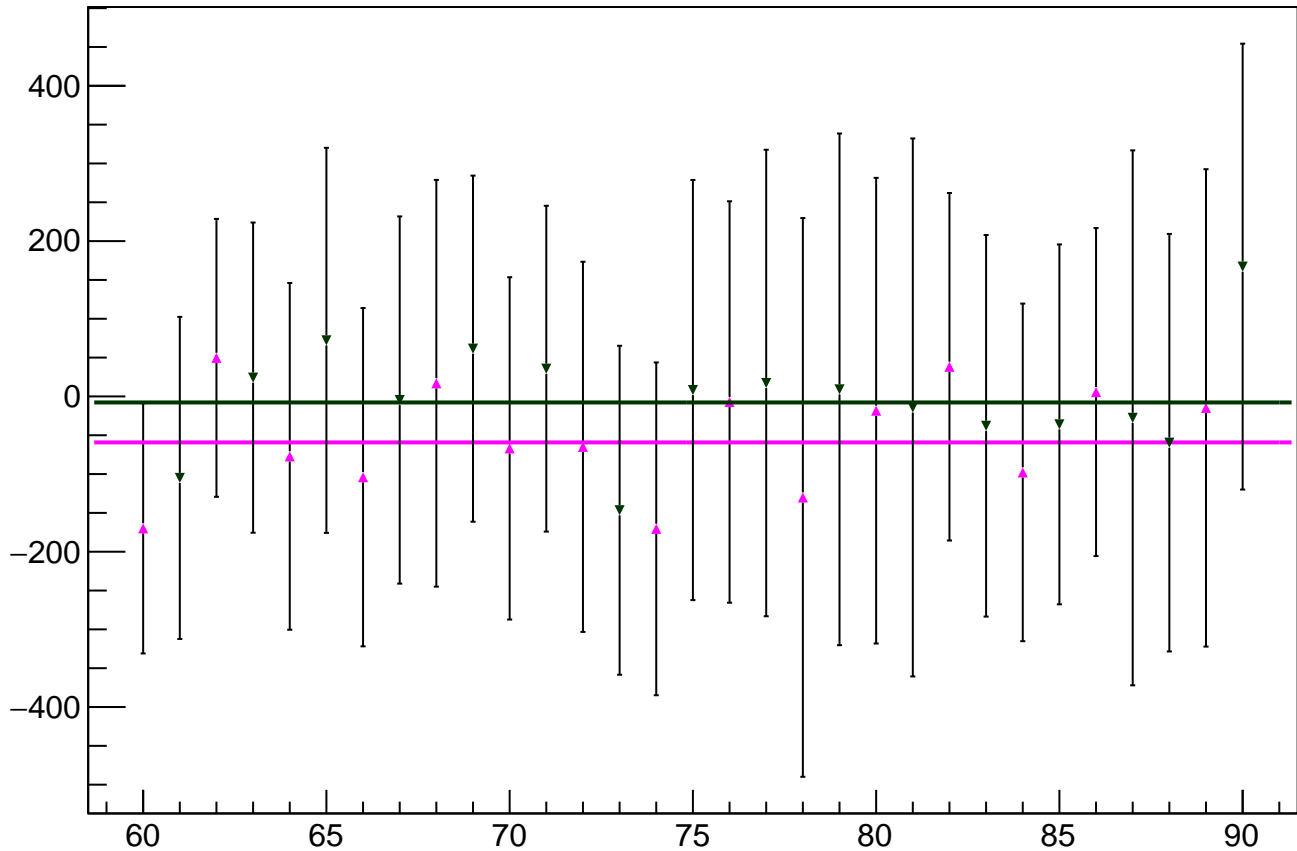
1.151+/-0.000  $\chi^2$ /NDF: 9097.6/15

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

1.153+/-0.000  $\chi^2$ /NDF: 9183.8/14

Left In: 1.153+/-0.000  $\chi^2$ /NDF:9183.8/14

# asym\_cav4cQ\_mean vs slug



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

-7.781+/-62.079  $\chi^2/\text{NDF}$ : 1.4/15

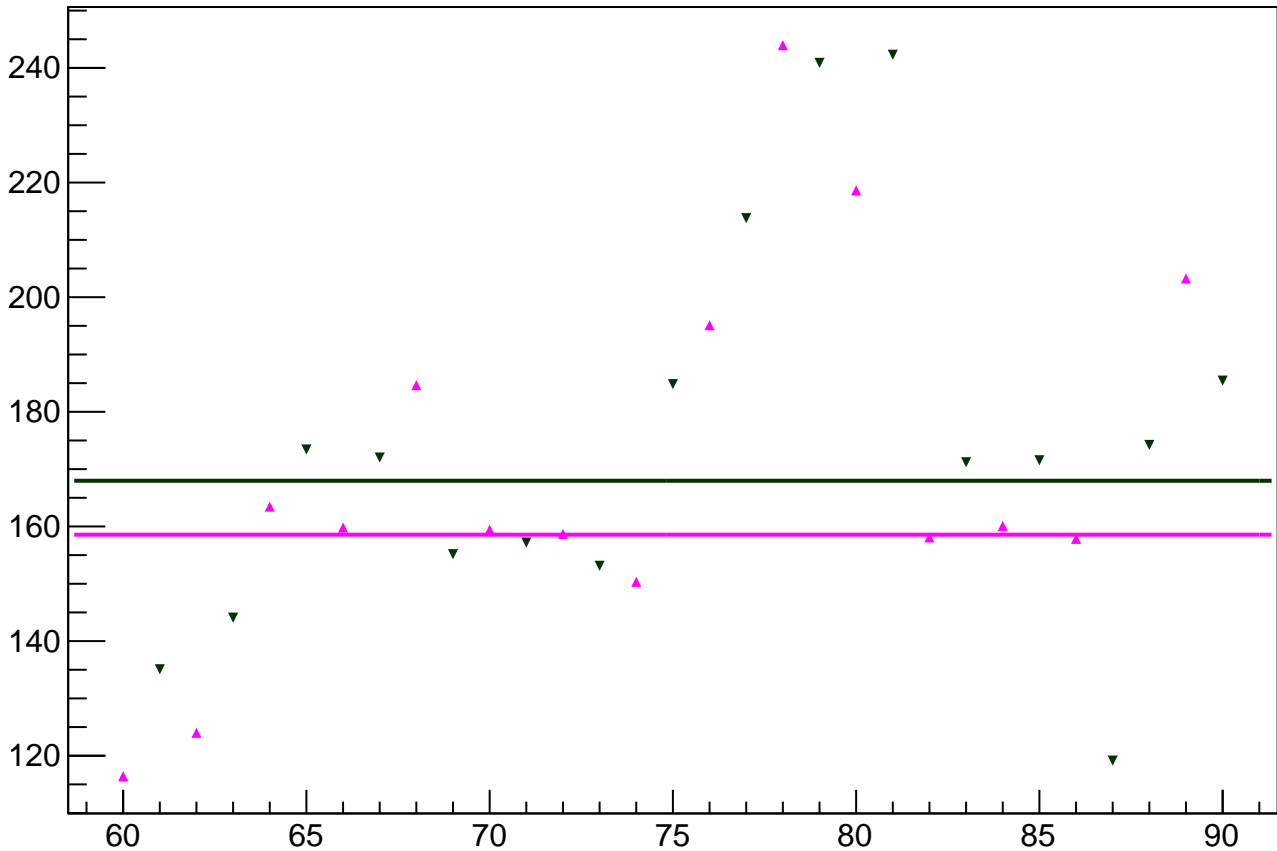
Left Out: -7.781+/-62.079  $\chi^2/\text{NDF}$ : 1.4/15

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

-59.223+/-58.386  $\chi^2/\text{NDF}$ : 1.7/14

Left In: -59.223+/-58.386  $\chi^2/\text{NDF}$ : 1.7/14

# asym\_cav4cQ\_rms vs slug



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

167.973+/-0.044  $\chi^2$ /NDF: 395940.0/15

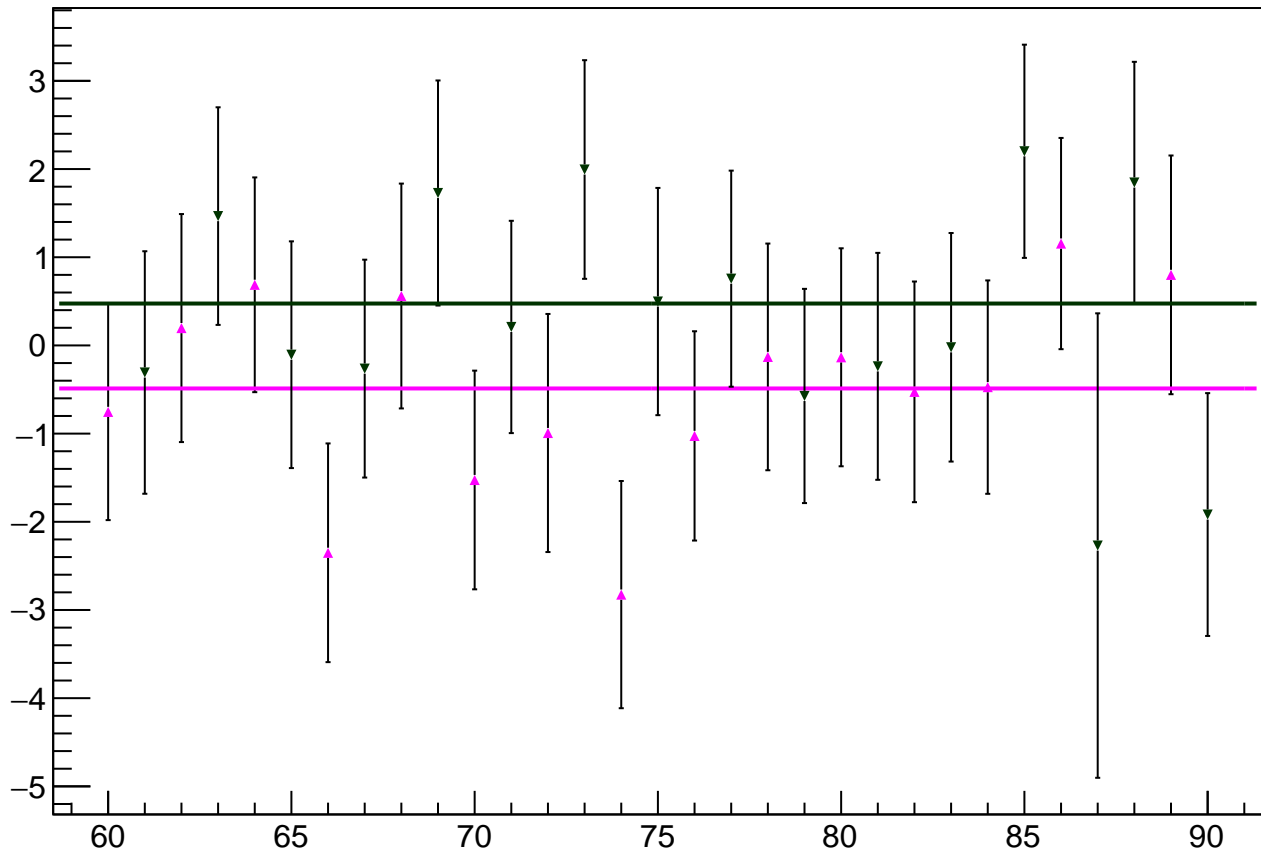
Left Out: 167.973+/-0.044  $\chi^2$ /NDF:395940.0/15

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

158.565+/-0.041  $\chi^2$ /NDF: 510616.2/14

Left In: 158.565+/-0.041  $\chi^2$ /NDF:510616.2/14

# asym\_cav4dQ\_mean vs slug

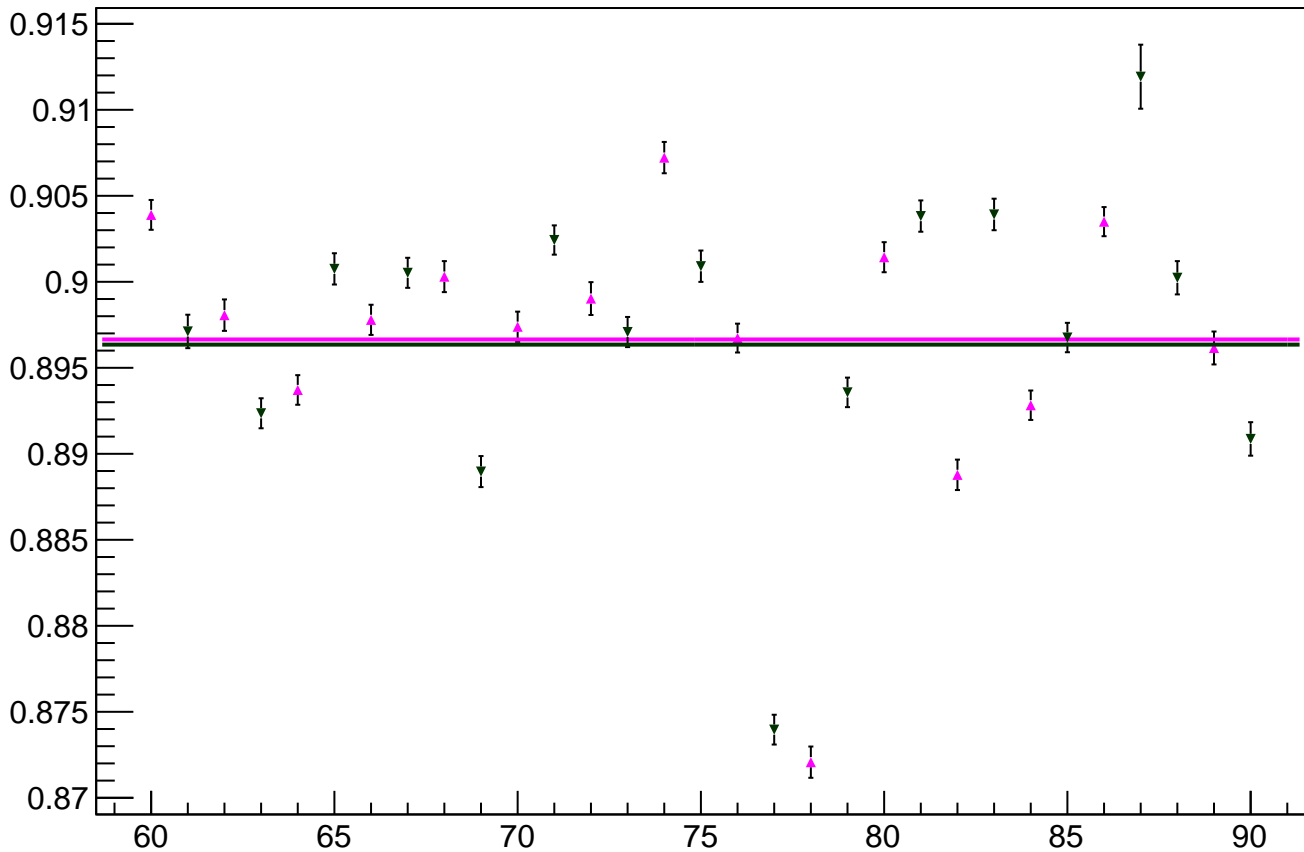


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.475 $\pm$ 0.326  $\chi^2$ /NDF:12.4/15  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -0.488 $\pm$ 0.324  $\chi^2$ /NDF:11.5/14

0.475 $\pm$ 0.326  $\chi^2$ /NDF: 12.4/15

-0.488 $\pm$ 0.324  $\chi^2$ /NDF: 11.5/14

# asym\_cav4dQ\_rms vs slug



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

Left Out: 0.896+/-0.000  $\chi^2$ /NDF:1143.5/15

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

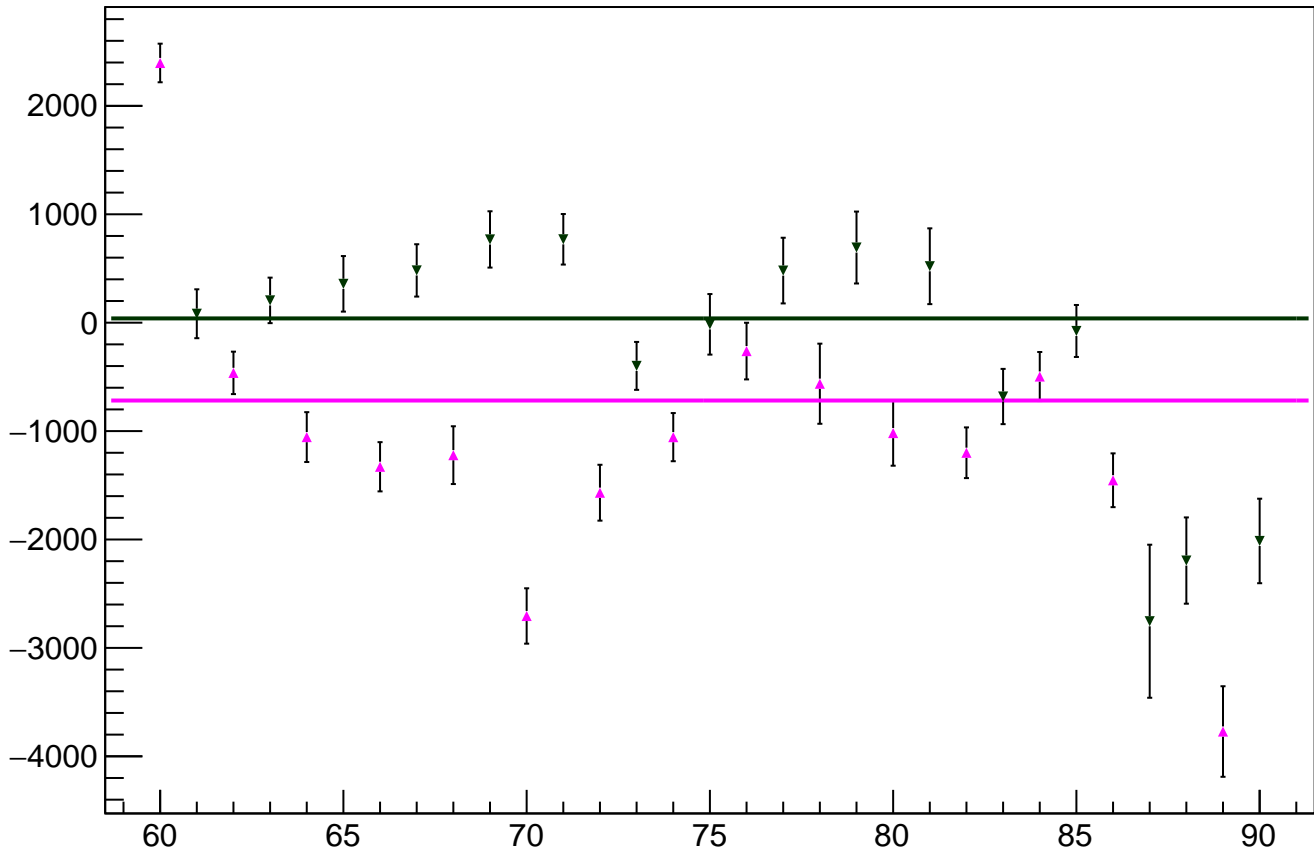
Left In: 0.897+/-0.000  $\chi^2$ /NDF:1169.4/14

0.896+/-0.000  $\chi^2$ /NDF: 1143.5/15

0.897+/-0.000  $\chi^2$ /NDF: 1169.4/14



# asym\_bcm0l02\_mean vs slug



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

39.421+/-67.868  $\chi^2$ /NDF: 118.2/15

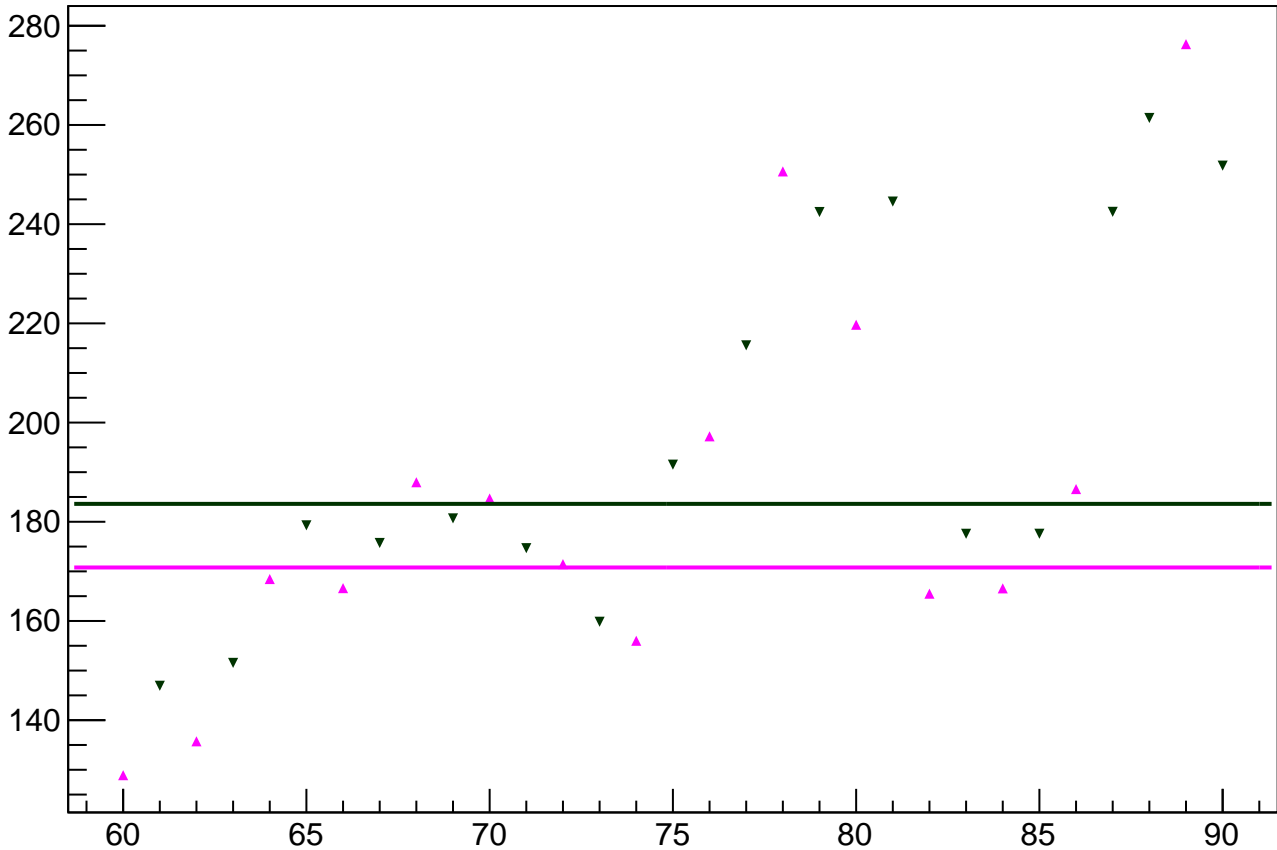
Left Out: 39.421+/-67.868  $\chi^2$ /NDF:118.2/15

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

-717.947+/-62.810  $\chi^2$ /NDF: 465.9/14

Left In: -717.947+/-62.810  $\chi^2$ /NDF:465.9/14

# asym\_bcm0l02\_rms vs slug



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

183.609+/-0.048  $\chi^2$ /NDF: 430122.7/15

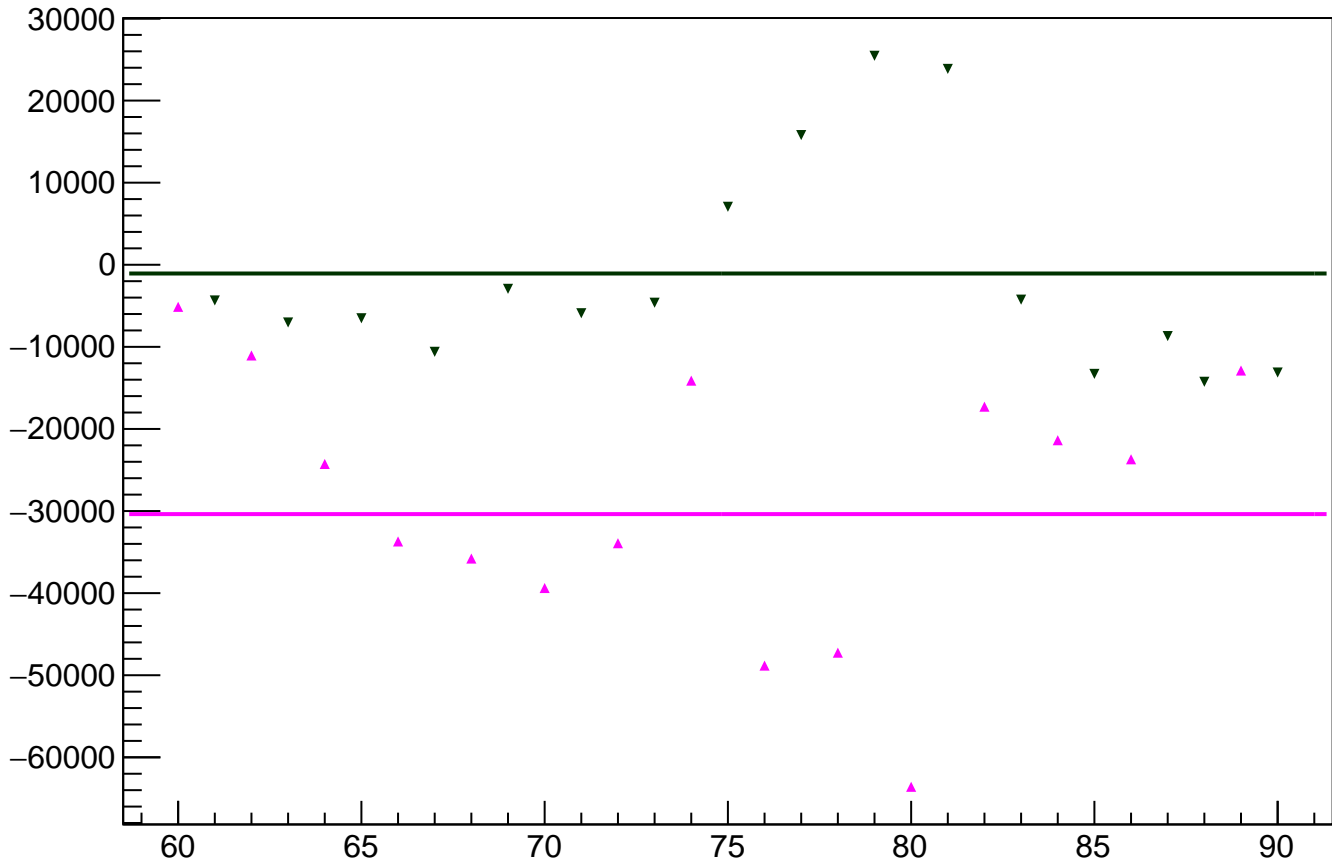
Left Out: 183.609+/-0.048  $\chi^2$ /NDF: 430122.7/15

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

170.785+/-0.044  $\chi^2$ /NDF: 502802.5/14

Left In: 170.785+/-0.044  $\chi^2$ /NDF: 502802.5/14

# asym\_bpm2i01WS\_mean vs slug



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

Left Out: -1064.344+/-34.856  $\chi^2$ /NDF:119070.0/15

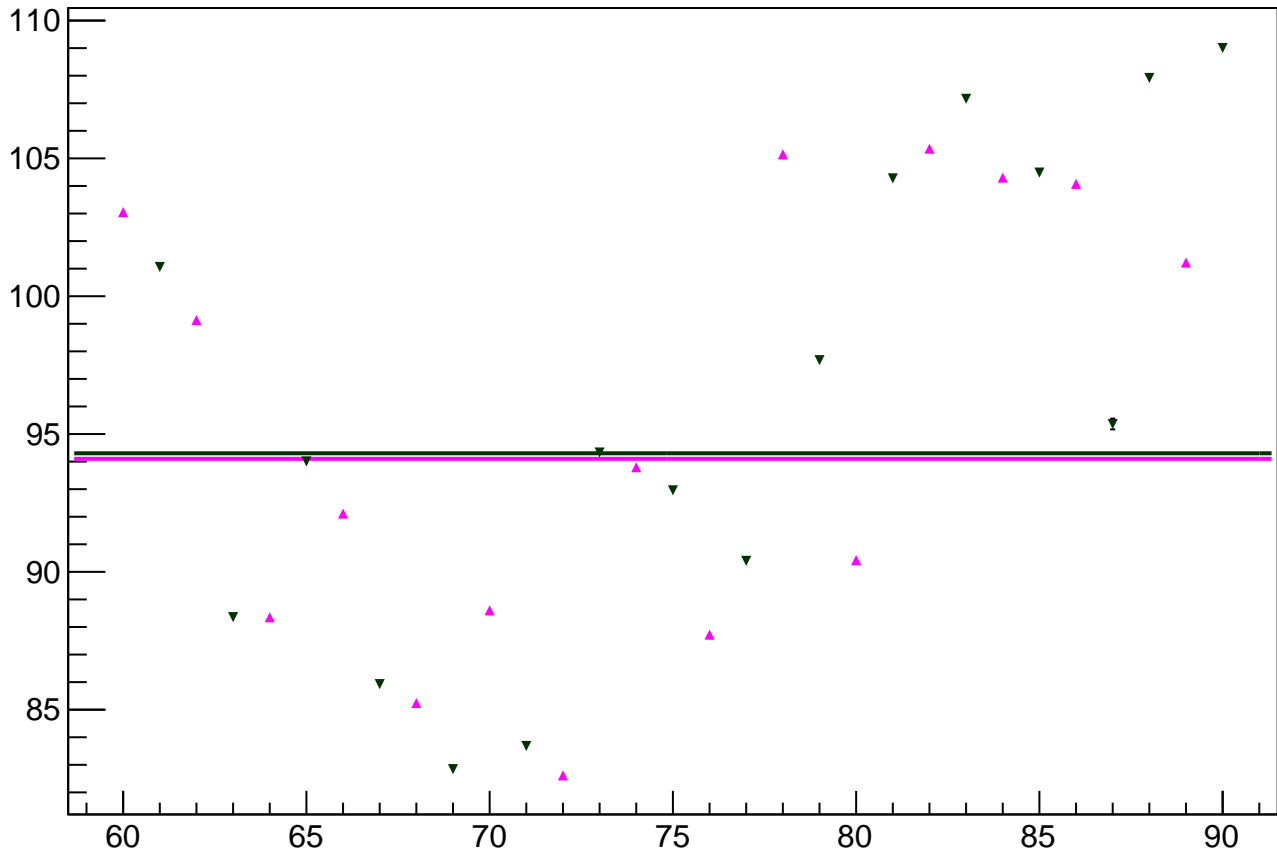
-1064.344+/-34.856  $\chi^2$ /NDF: 119070.0/15

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

-30373.276+/-34.397  $\chi^2$ /NDF: 207860.5/14

Left In: -30373.276+/-34.397  $\chi^2$ /NDF:207860.5/14

# asym\_bpm2i01WS\_rms vs slug



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

Left Out: 94.302+/-0.025  $\chi^2$ /NDF:118783.2/15

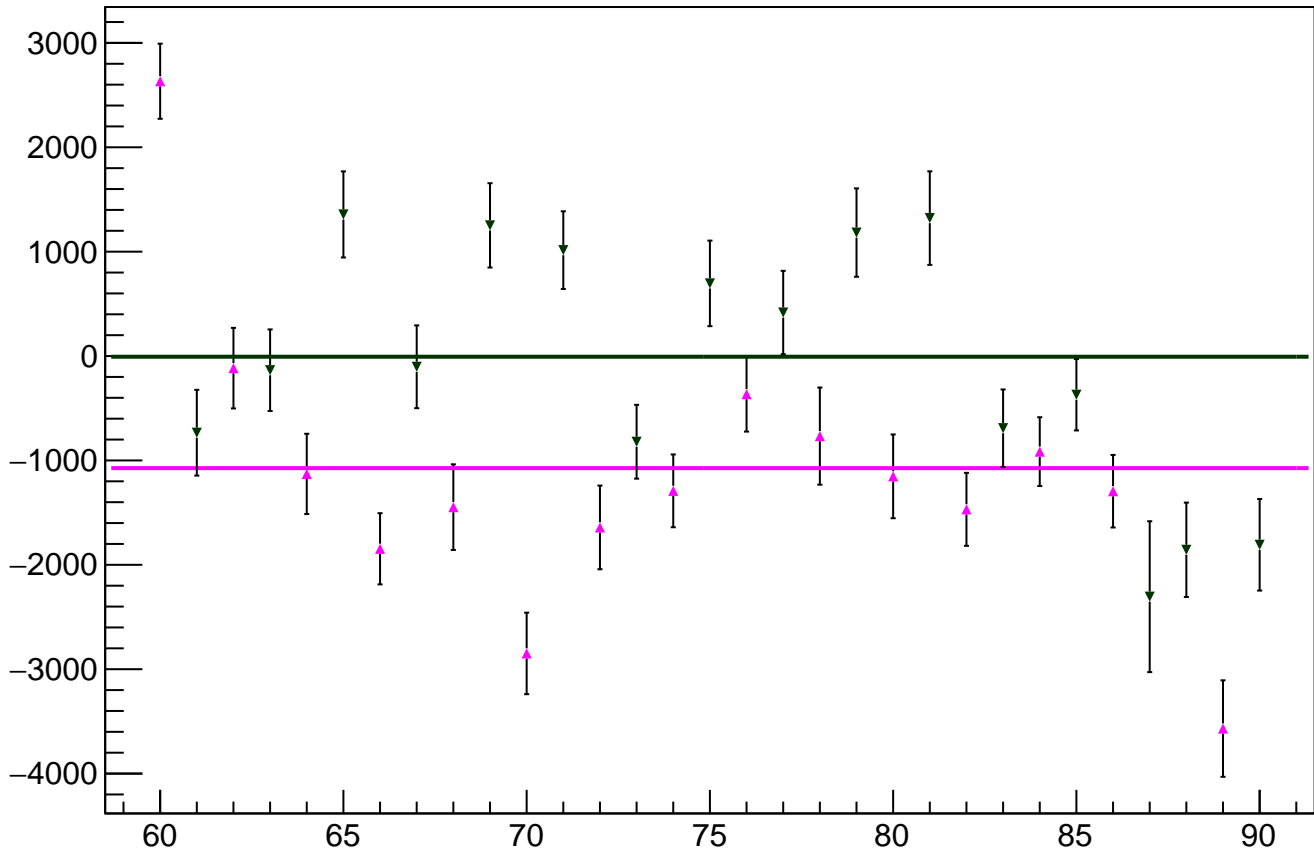
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 94.102+/-0.024  $\chi^2$ /NDF:100509.1/14

94.302+/-0.025  $\chi^2$ /NDF: 118783.2/15

94.102+/-0.024  $\chi^2$ /NDF: 100509.1/14

# asym\_bpm0i07WS\_mean vs slug



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

Left Out: -6.359+/-101.715  $\chi^2$ /NDF:105.8/15

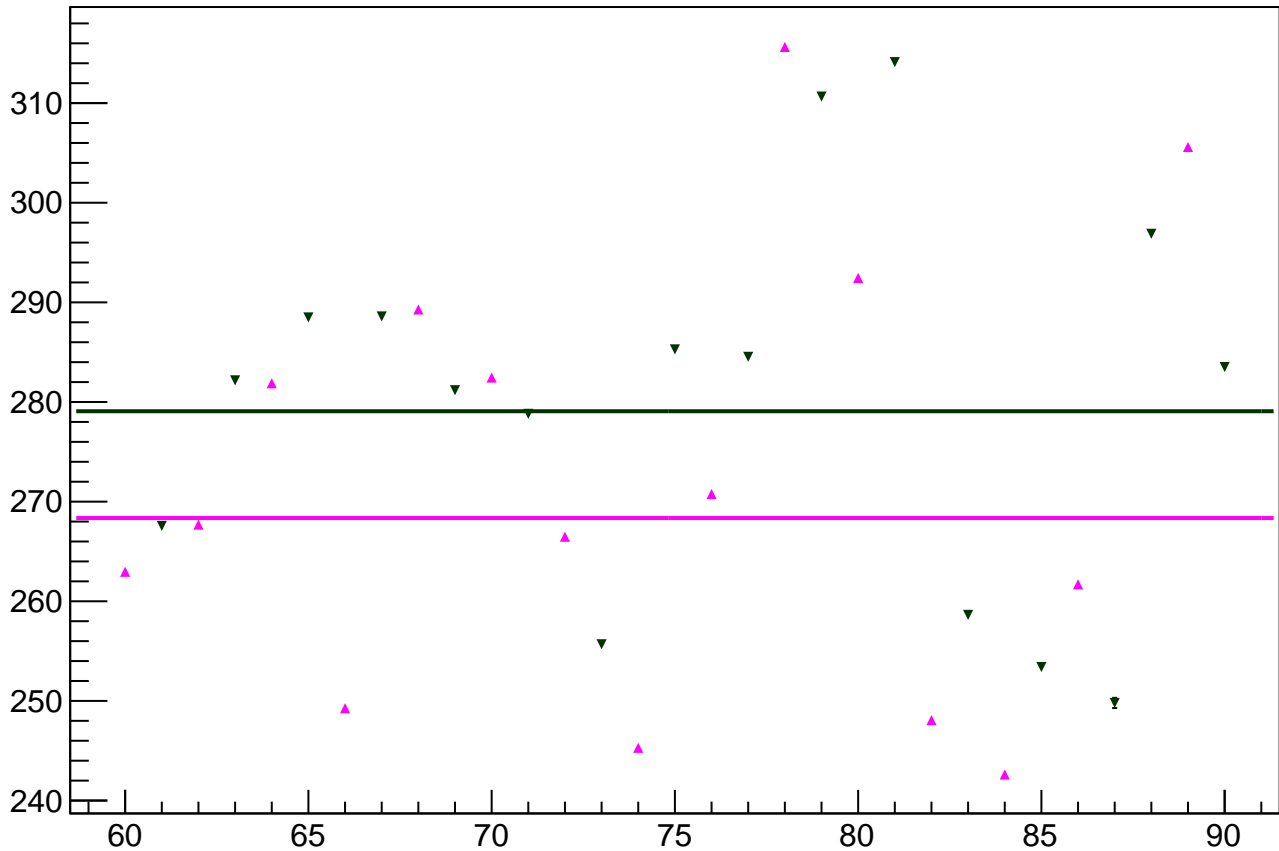
-6.359+/-101.715  $\chi^2$ /NDF: 105.8/15

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

-1073.709+/-97.263  $\chi^2$ /NDF: 176.7/14

Left In: -1073.709+/-97.263  $\chi^2$ /NDF:176.7/14

# asym\_bpm0i07WS\_rms vs slug



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

Left Out: 279.075+/-0.072  $\chi^2$ /NDF:60804.3/15

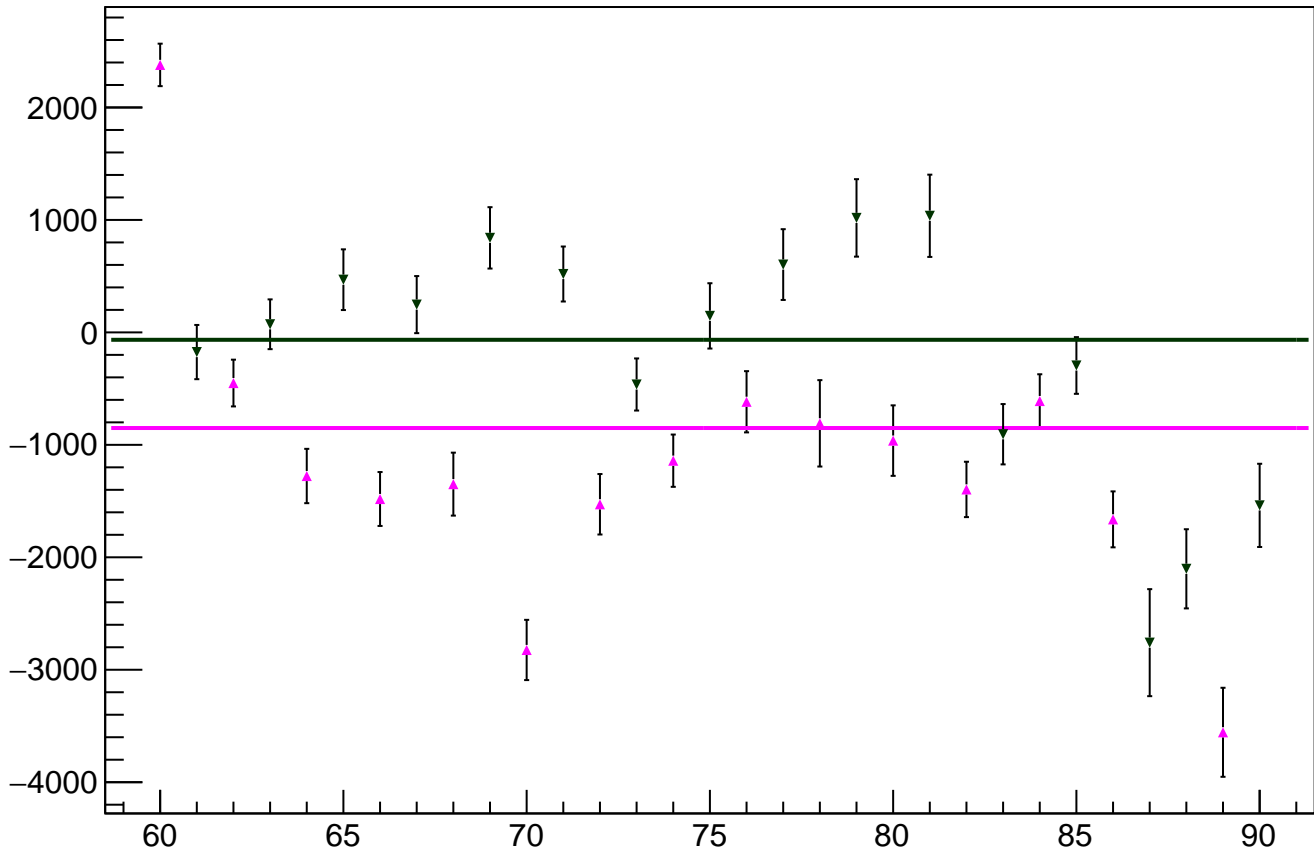
279.075+/-0.072  $\chi^2$ /NDF: 60804.3/15

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

Left In: 268.355+/-0.069  $\chi^2$ /NDF:86409.2/14

268.355+/-0.069  $\chi^2$ /NDF: 86409.2/14

# asym\_bpm0l01WS\_mean vs slug



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

-65.890+/-70.194  $\chi^2$ /NDF: 141.7/15

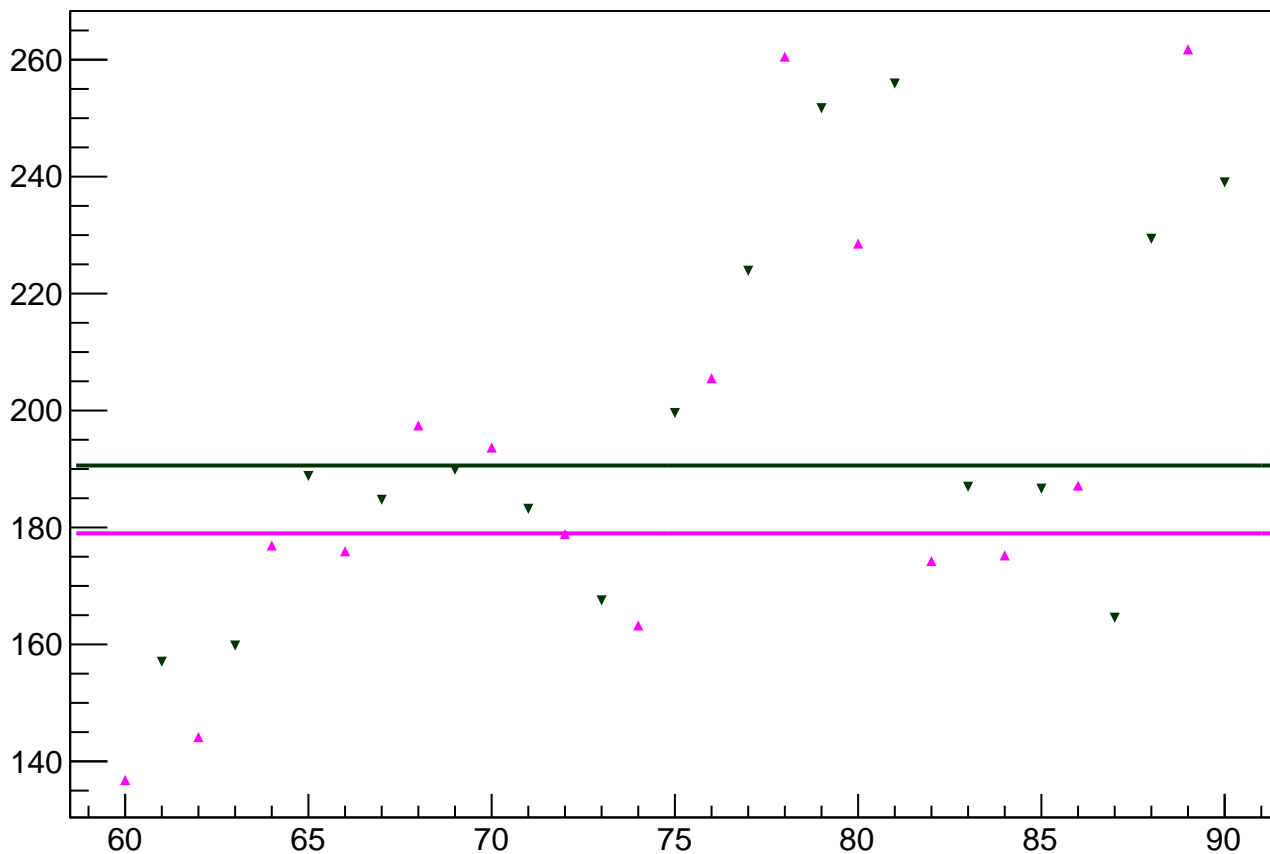
Left Out: -65.890+/-70.194  $\chi^2$ /NDF:141.7/15

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

-850.393+/-65.663  $\chi^2$ /NDF: 435.8/14

Left In: -850.393+/-65.663  $\chi^2$ /NDF:435.8/14

# asym\_bpm0l01WS\_rms vs slug



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

Left Out: 190.598+/-0.050  $\chi^2$ /NDF:316720.6/15

190.598+/-0.050  $\chi^2$ /NDF: 316720.6/15

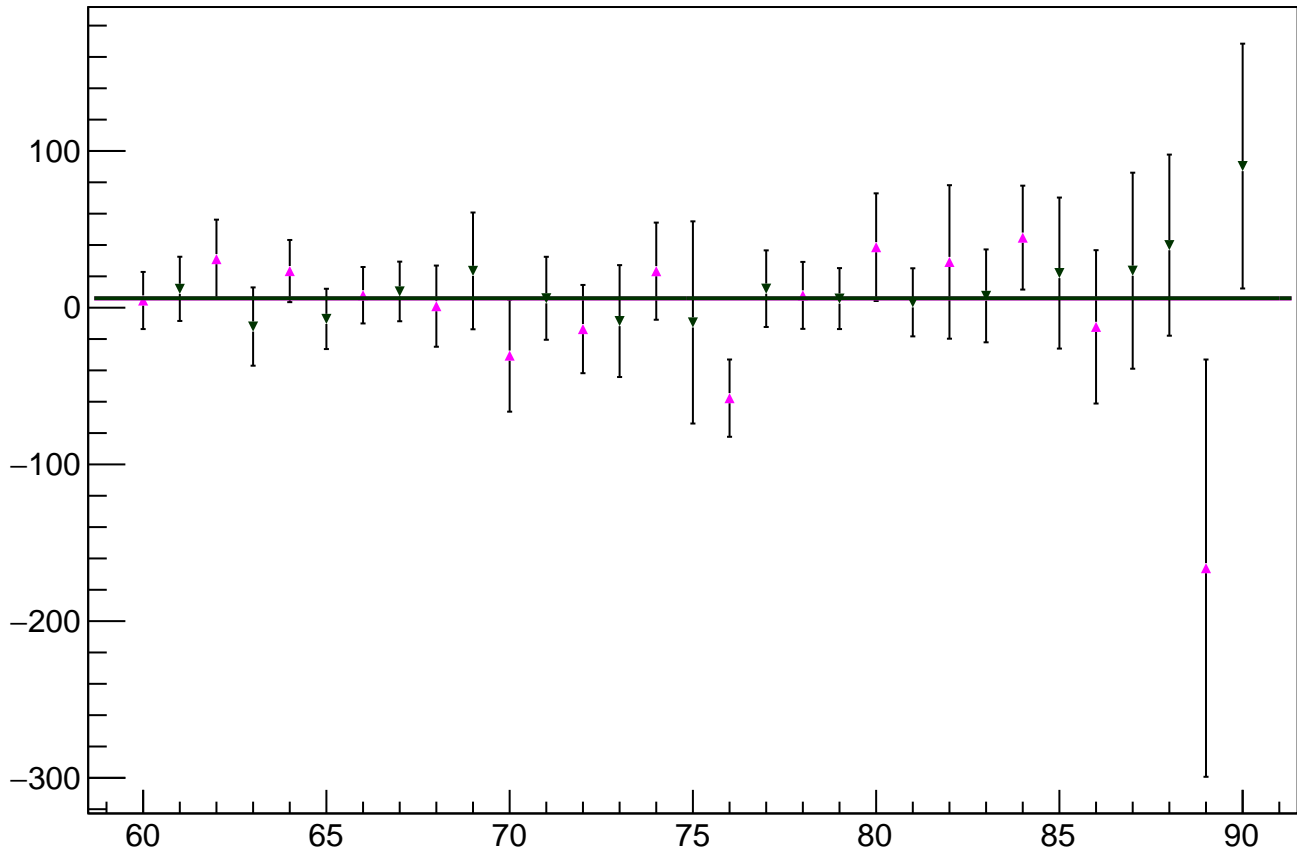
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

178.994+/-0.046  $\chi^2$ /NDF: 430362.9/14

Left In: 178.994+/-0.046  $\chi^2$ /NDF:430362.9/14



# bcm\_an\_us\_ds\_dd\_mean vs slug



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

Left Out: 6.044+/-6.844  $\chi^2$ /NDF:3.4/15

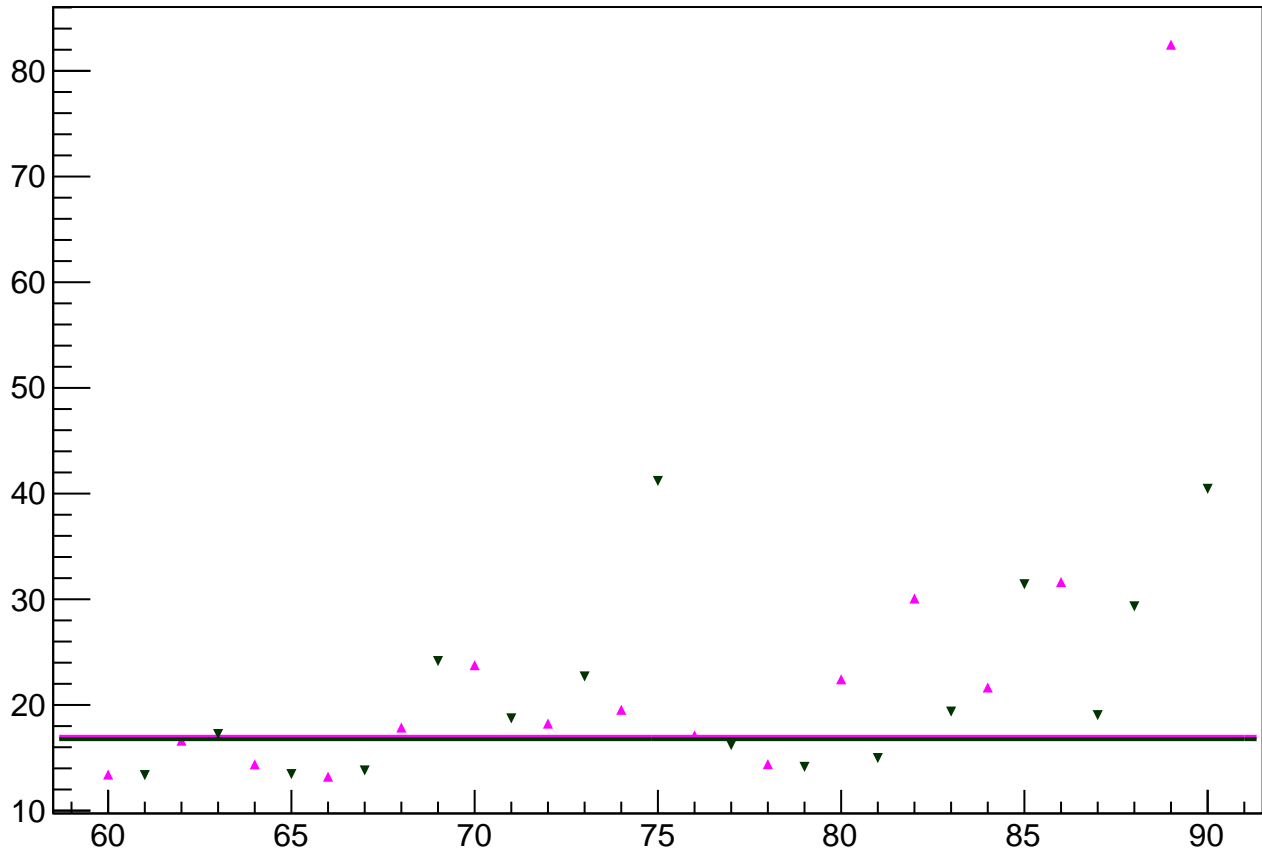
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 5.865+/-6.857  $\chi^2$ /NDF:14.6/14

6.044+/-6.844  $\chi^2$ /NDF: 3.4/15

5.865+/-6.857  $\chi^2$ /NDF: 14.6/14

# bcm\_an\_us\_ds\_dd\_rms vs slug



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

Left Out: 16.766+/-0.005  $\chi^2/\text{NDF}$ : 1128089.4/15

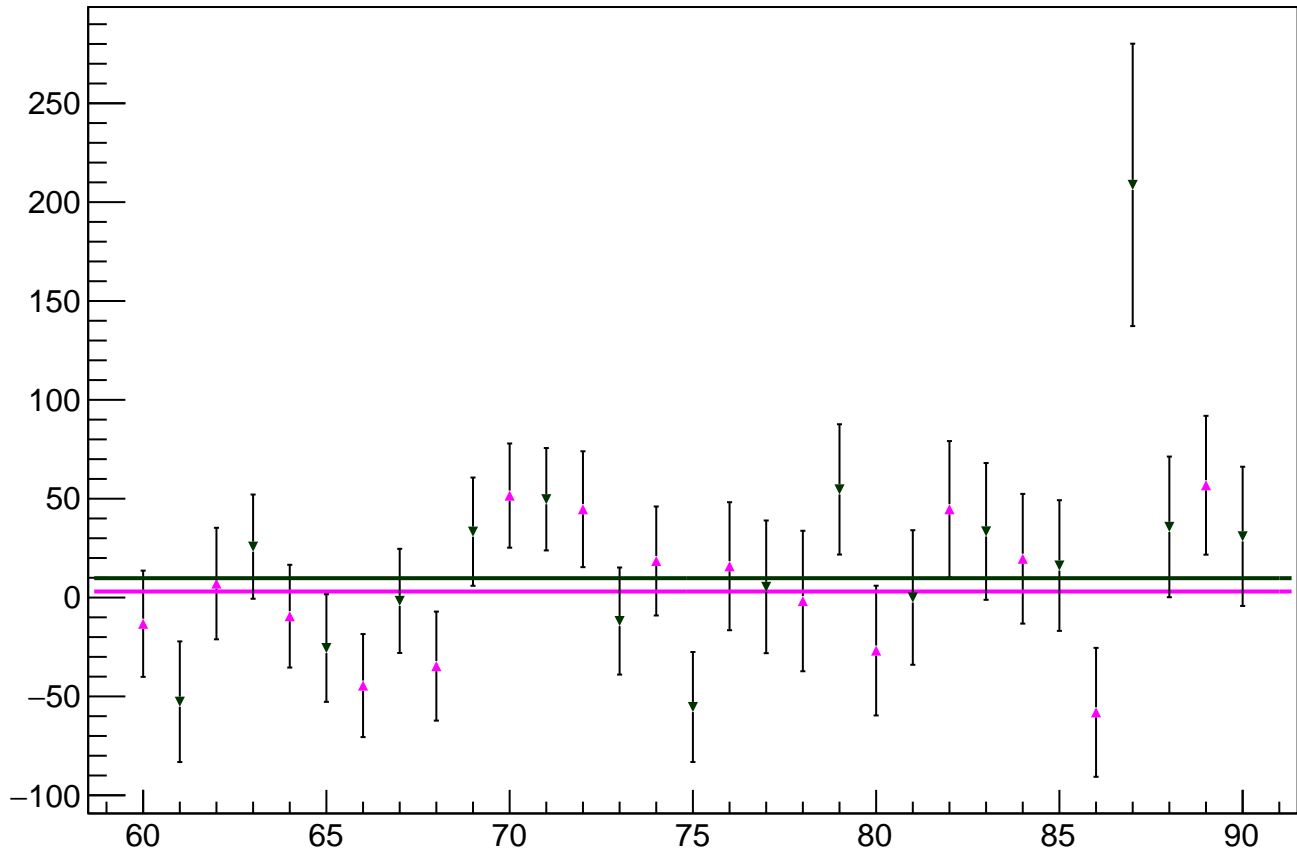
16.766+/-0.005  $\chi^2/\text{NDF}$ : 1128089.4/15

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

Left In: 16.987+/-0.005  $\chi^2/\text{NDF}$ : 1216083.8/14

16.987+/-0.005  $\chi^2/\text{NDF}$ : 1216083.8/14

# bcm\_dg\_us\_dg\_ds\_dd\_mean vs slug



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

Left Out: 9.801+/-7.668  $\chi^2/\text{NDF}$ :26.8/15

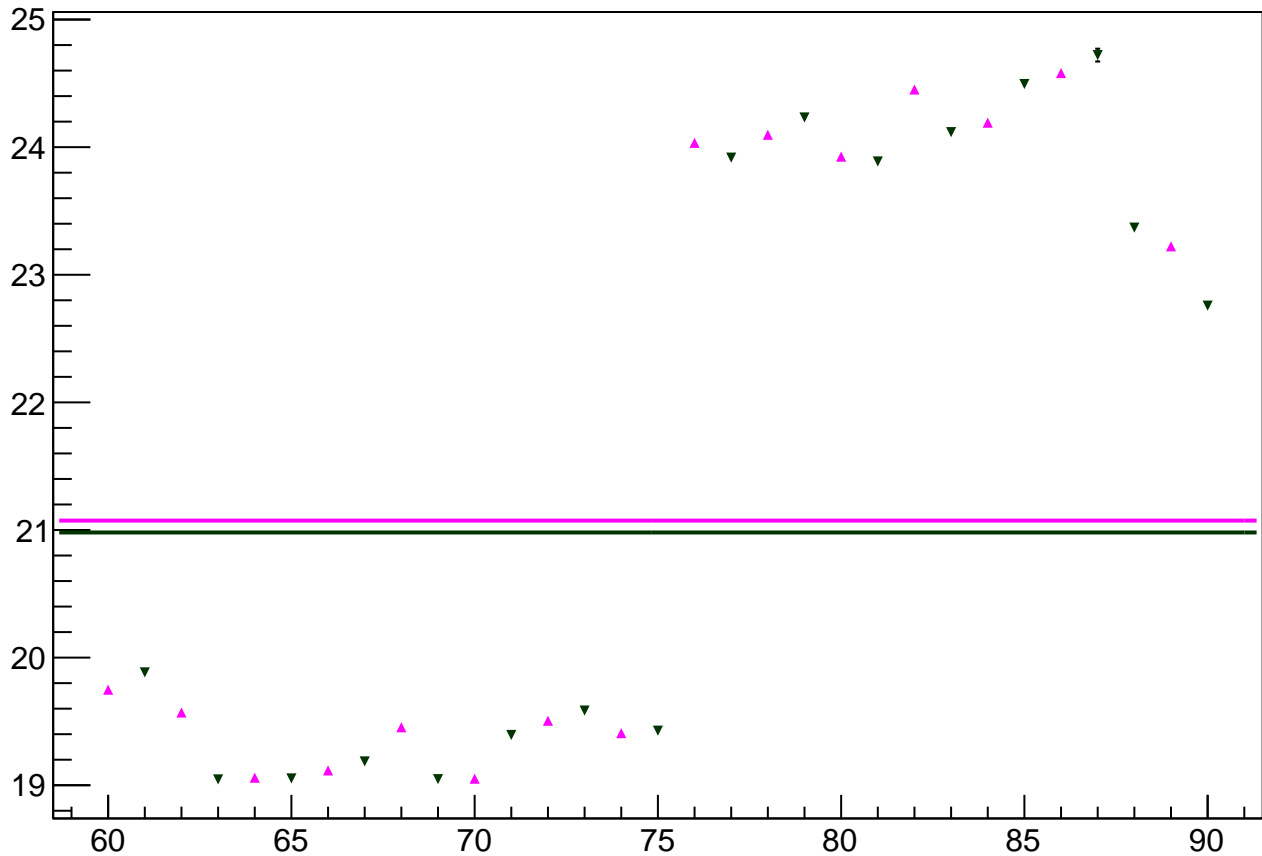
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3.068+/-7.663  $\chi^2/\text{NDF}$ :20.1/14

9.801+/-7.668  $\chi^2/\text{NDF}$ : 26.8/15

3.068+/-7.663  $\chi^2/\text{NDF}$ : 20.1/14

# bcm\_dg\_us\_dg\_ds\_dd\_rms vs slug



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

Left Out: 20.981+/-0.005  $\chi^2$ /NDF:169782.8/15

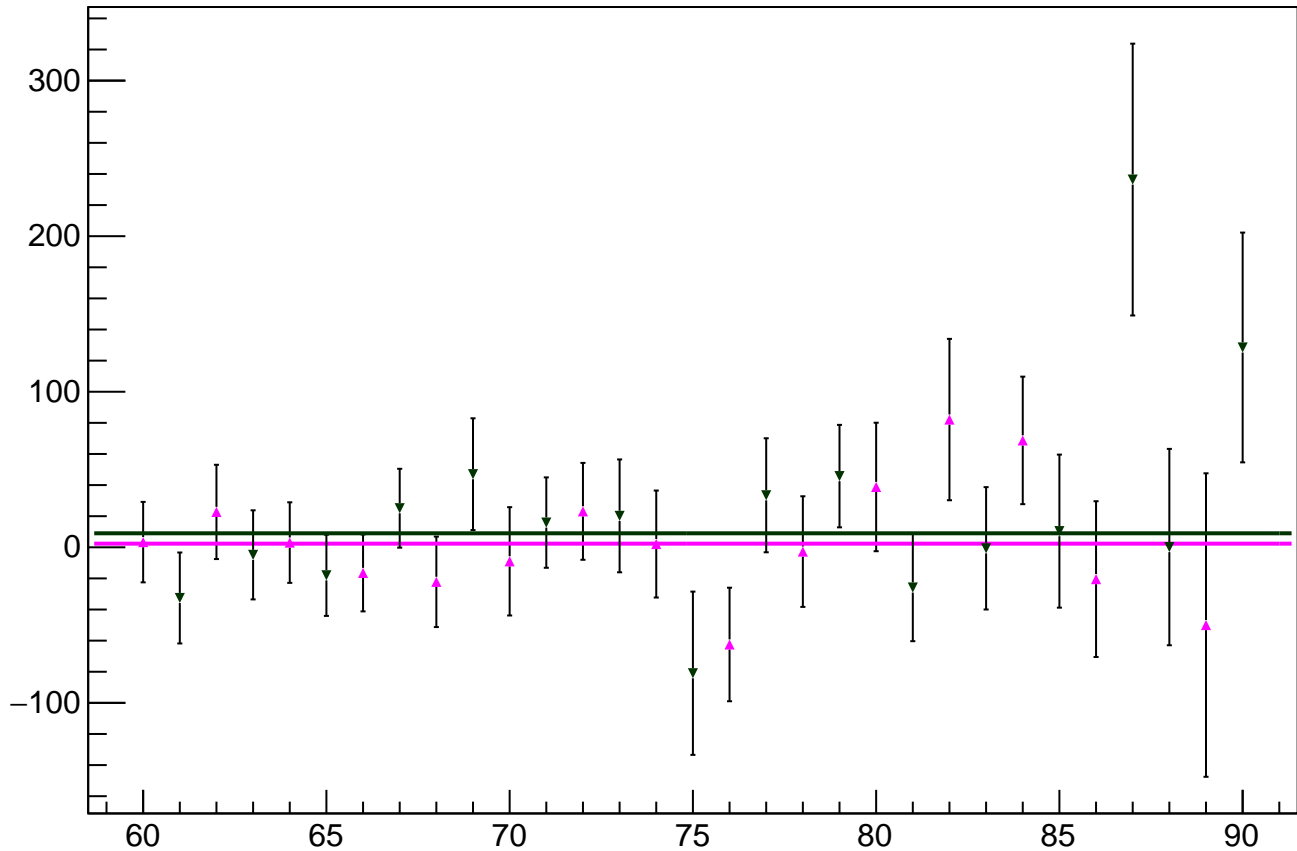
20.981+/-0.005  $\chi^2$ /NDF: 169782.8/15

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

Left In: 21.074+/-0.005  $\chi^2$ /NDF:179809.1/14

21.074+/-0.005  $\chi^2$ /NDF: 179809.1/14

# bcm\_dg\_us\_ds\_dd\_mean vs slug



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

Left Out: 9.002+/-8.900  $\chi^2/\text{NDF}$ :20.1/15

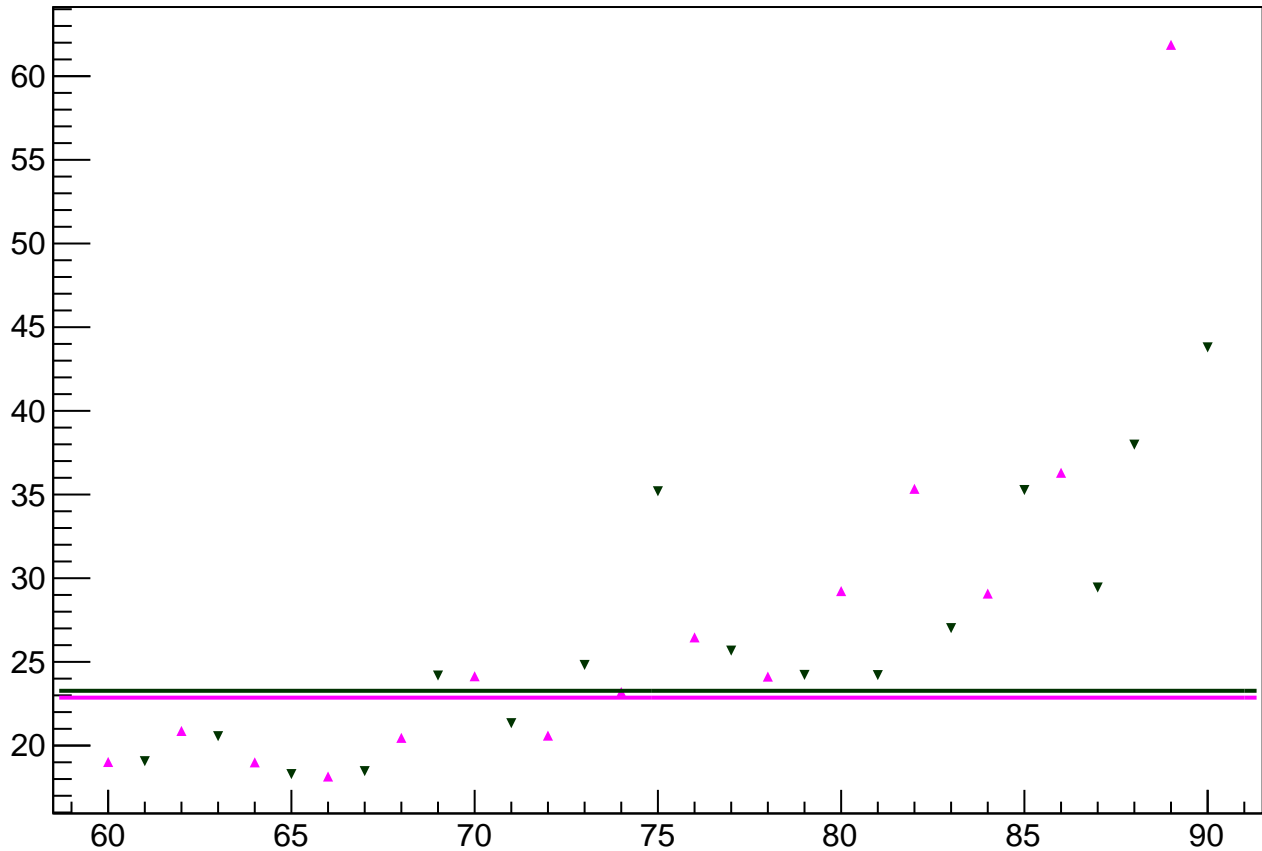
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.344+/-8.706  $\chi^2/\text{NDF}$ :11.7/14

9.002+/-8.900  $\chi^2/\text{NDF}$ : 20.1/15

2.344+/-8.706  $\chi^2/\text{NDF}$ : 11.7/14

# bcm\_dg\_us\_ds\_dd\_rms vs slug



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

23.273+/-0.006  $\chi^2/\text{NDF}$ : 742571.8/15

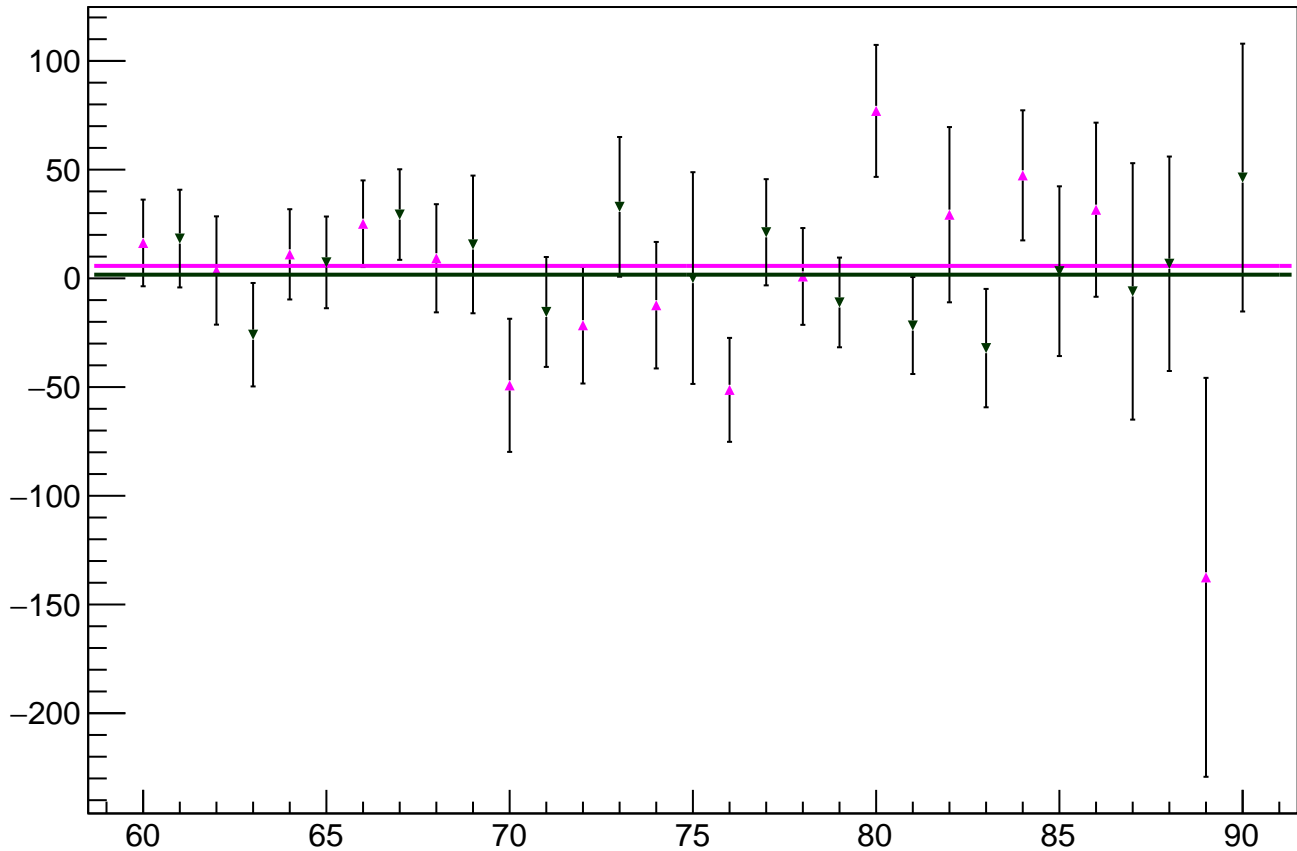
Left Out: 23.273+/-0.006  $\chi^2/\text{NDF}$ : 742571.8/15

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

22.863+/-0.006  $\chi^2/\text{NDF}$ : 892404.7/14

Left In: 22.863+/-0.006  $\chi^2/\text{NDF}$ : 892404.7/14

# bcm\_dg\_ds\_ds\_dd\_mean vs slug



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

Left Out: 1.689+/-6.858  $\chi^2/\text{NDF}$ : 9.5/15

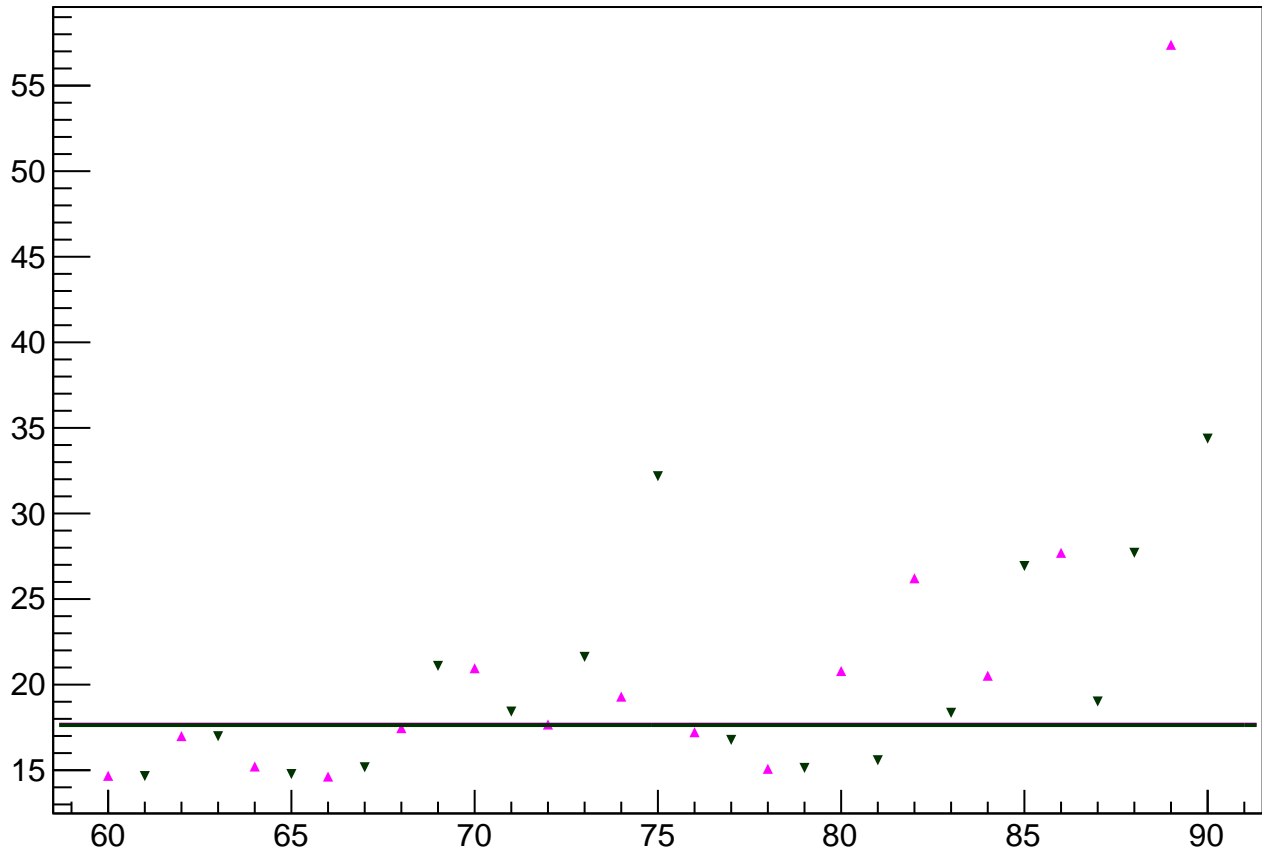
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.734+/-6.811  $\chi^2/\text{NDF}$ : 22.3/14

1.689+/-6.858  $\chi^2/\text{NDF}$ : 9.5/15

5.734+/-6.811  $\chi^2/\text{NDF}$ : 22.3/14

# bcm\_dg\_ds\_ds\_dd\_rms vs slug



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

Left Out: 17.638+/-0.005  $\chi^2/\text{NDF}$ : 732275.9/15

17.638+/-0.005  $\chi^2/\text{NDF}$ : 732275.9/15

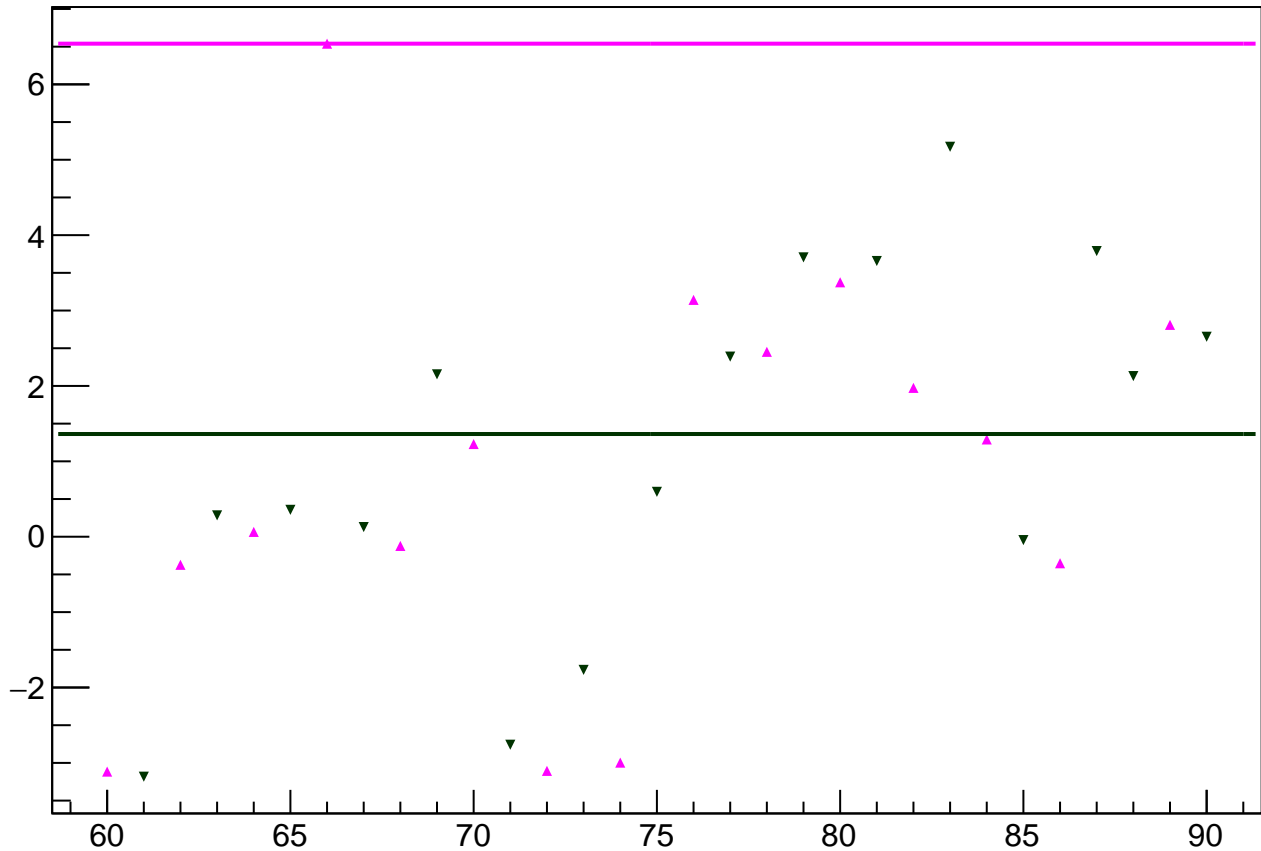
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.666+/-0.005  $\chi^2/\text{NDF}$ : 808103.8/14

Left In: 17.666+/-0.005  $\chi^2/\text{NDF}$ : 808103.8/14



# yield\_cav4bX\_mean vs slug



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

Left Out: 1.362+/-0.001  $\chi^2/\text{NDF}$ :29003287.7/15

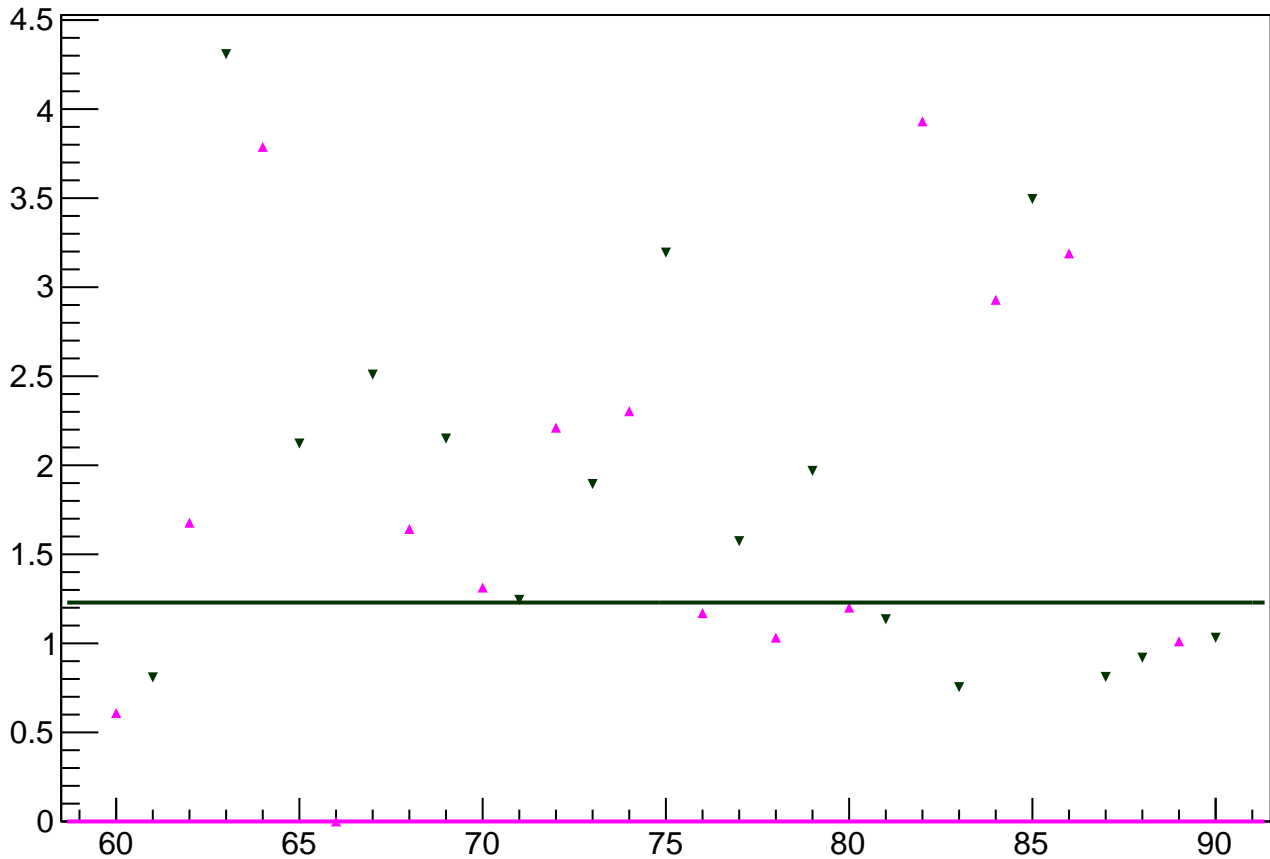
1.362+/-0.001  $\chi^2/\text{NDF}$ : 29003287.7/15

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

6.540+/-0.000  $\chi^2/\text{NDF}$ : 132697145.5/14

Left In: 6.540+/-0.000  $\chi^2/\text{NDF}$ :132697145.5/14

# yield\_cav4bX\_rms vs slug



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

Left Out: 1.229+/-0.000  $\chi^2/\text{NDF}$ :2706765.8/15

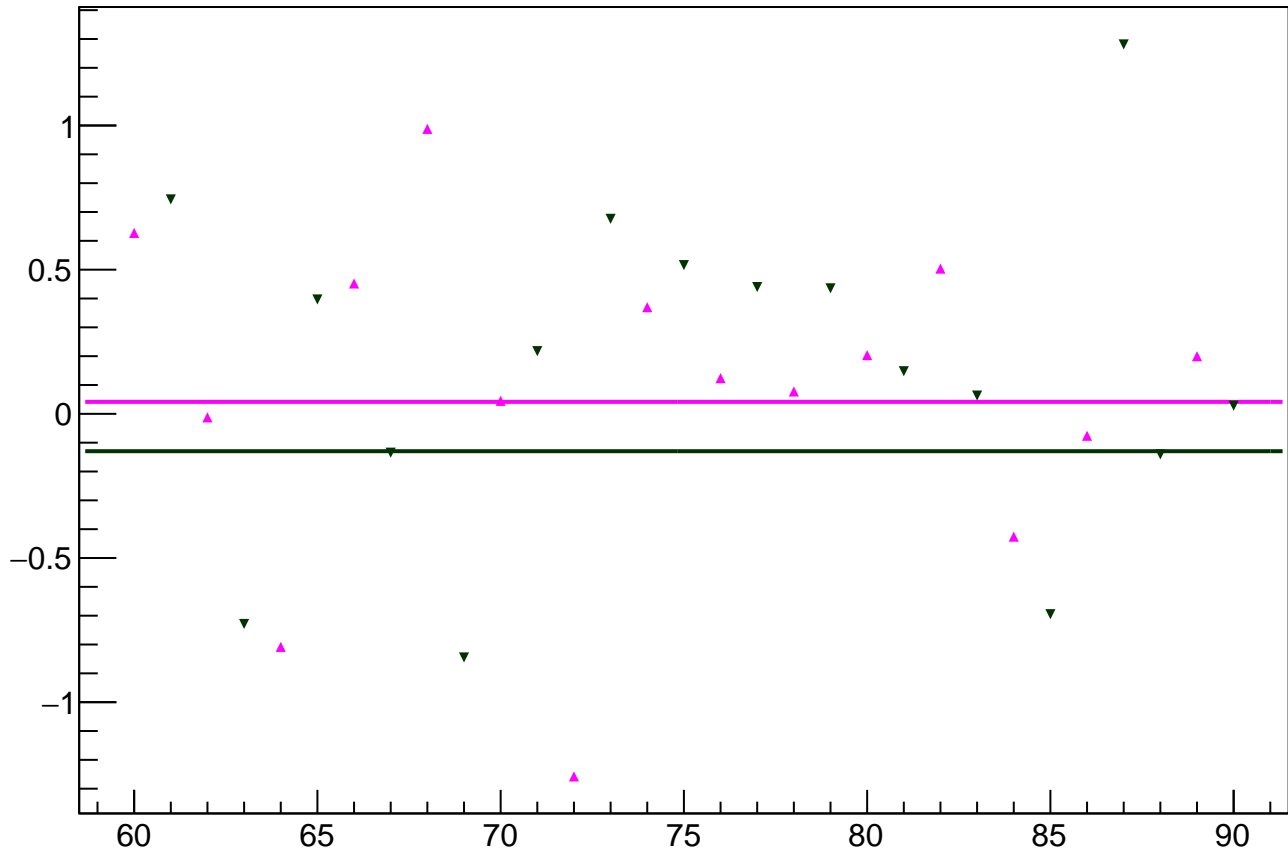
1.229+/-0.000  $\chi^2/\text{NDF}$ : 2706765.8/15

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

0.000+/-0.000  $\chi^2/\text{NDF}$ : 11109057.5/14

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :11109057.5/14

# yield\_cav4bY\_mean vs slug



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

Left Out: -0.130+/-0.000  $\chi^2/\text{NDF}$ : 3332817.7/15

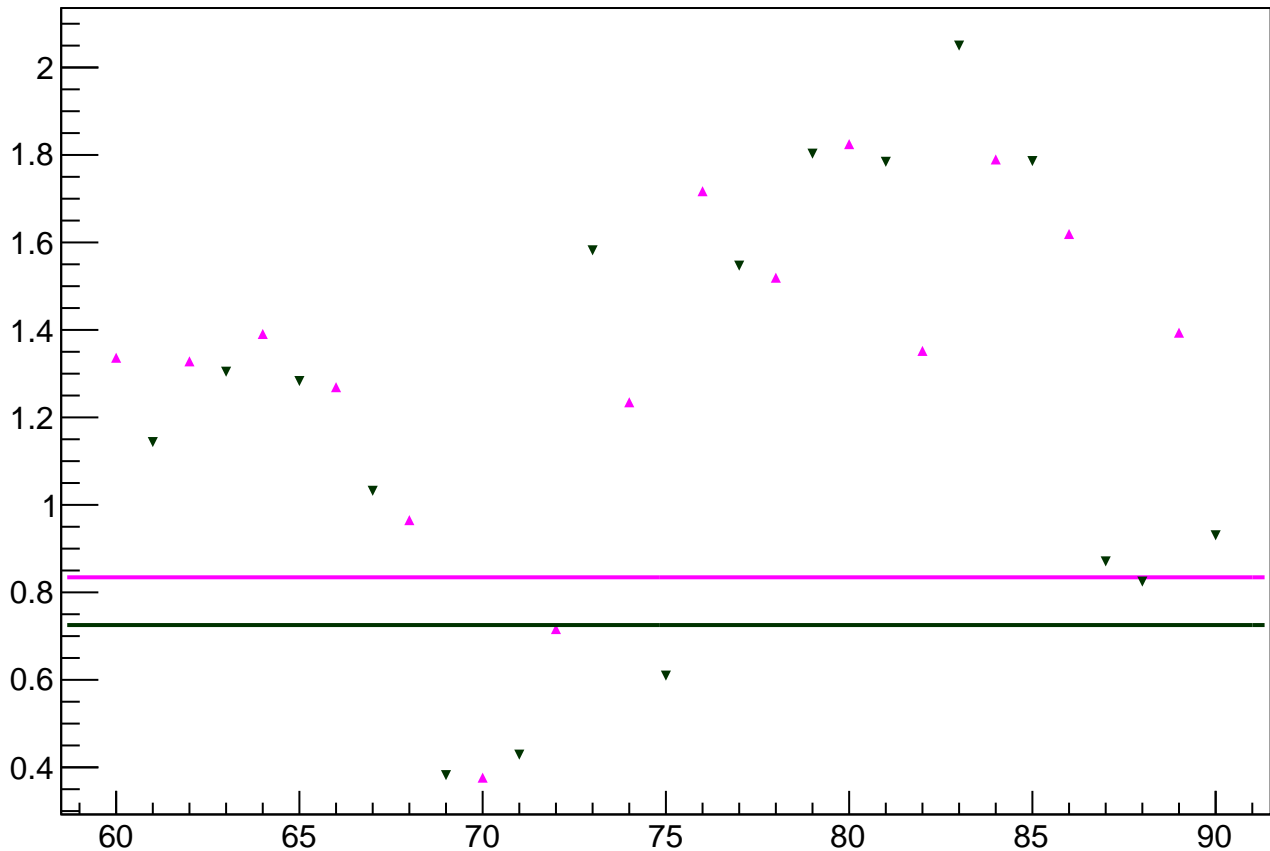
-0.130+/-0.000  $\chi^2/\text{NDF}$ : 3332817.7/15

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

0.041+/-0.000  $\chi^2/\text{NDF}$ : 1811645.9/14

Left In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 1811645.9/14

# yield\_cav4bY\_rms vs slug



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

Left Out: 0.725+/-0.000  $\chi^2/\text{NDF}$ : 3648677.4/15

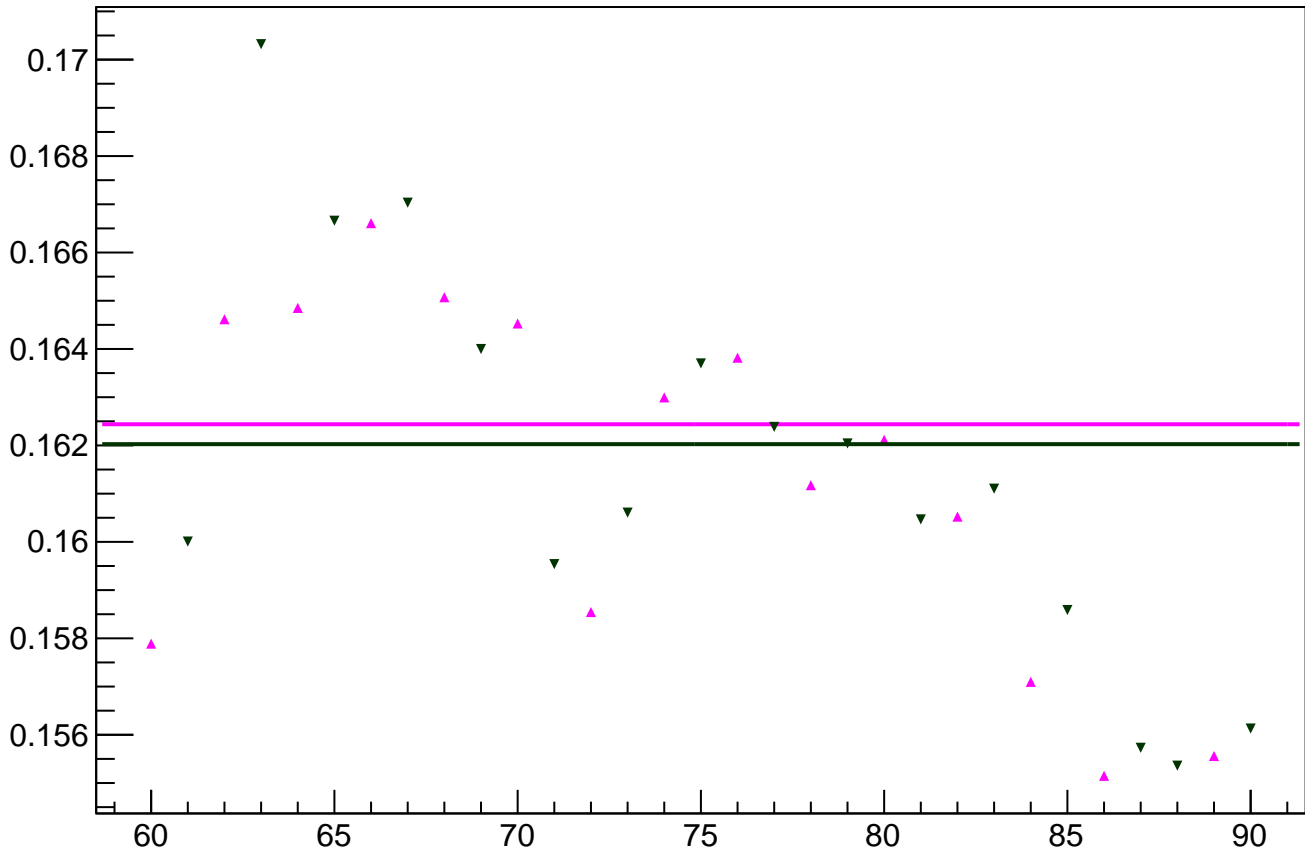
0.725+/-0.000  $\chi^2/\text{NDF}$ : 3648677.4/15

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

0.834+/-0.000  $\chi^2/\text{NDF}$ : 3738122.5/14

Left In: 0.834+/-0.000  $\chi^2/\text{NDF}$ : 3738122.5/14

# yield\_cav4cX\_mean vs slug



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

Left Out: 0.162+/-0.000  $\chi^2$ /NDF:3004253.4/15

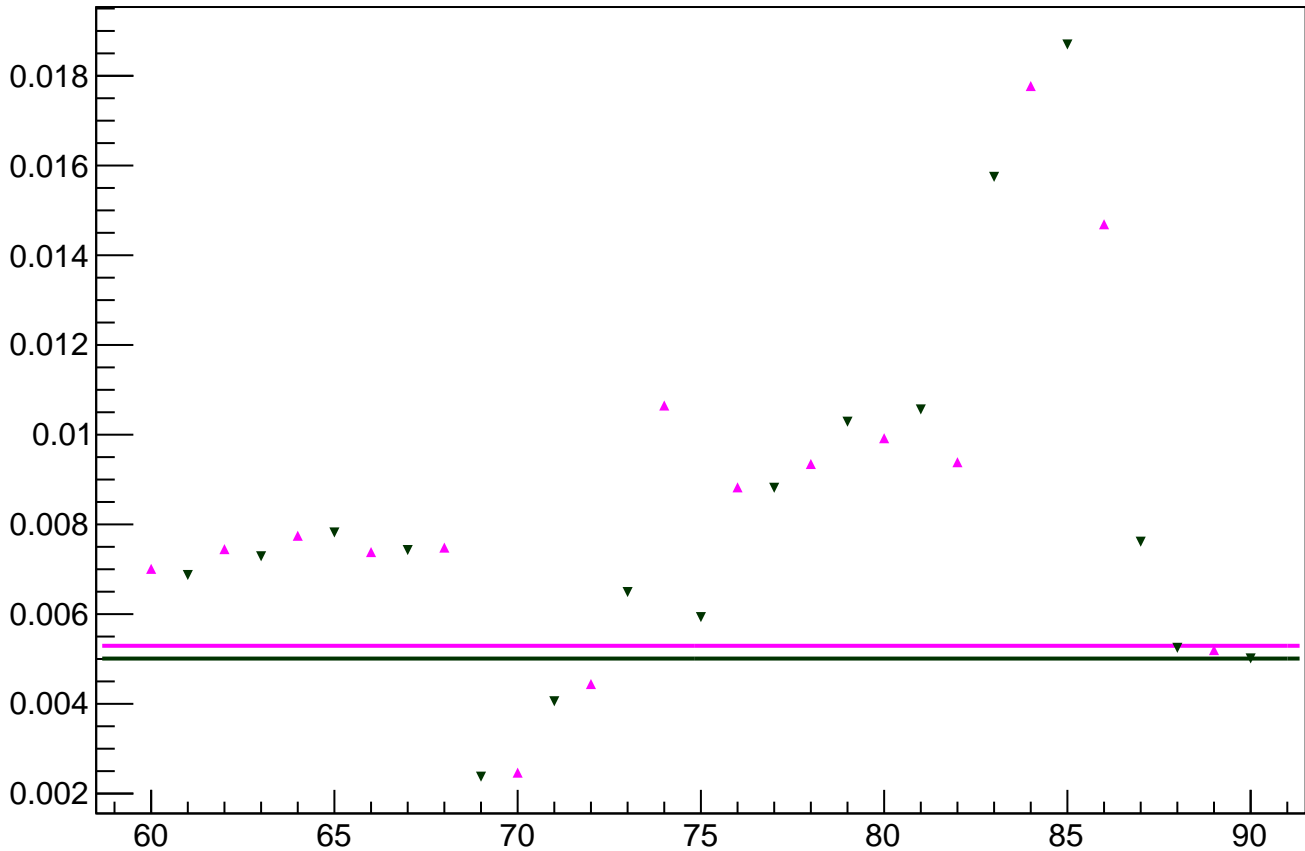
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.162+/-0.000  $\chi^2$ /NDF:2181451.9/14

0.162+/-0.000  $\chi^2$ /NDF: 3004253.4/15

0.162+/-0.000  $\chi^2$ /NDF: 2181451.9/14

# yield\_cav4cX\_rms vs slug



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

Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ :3371455.1/15

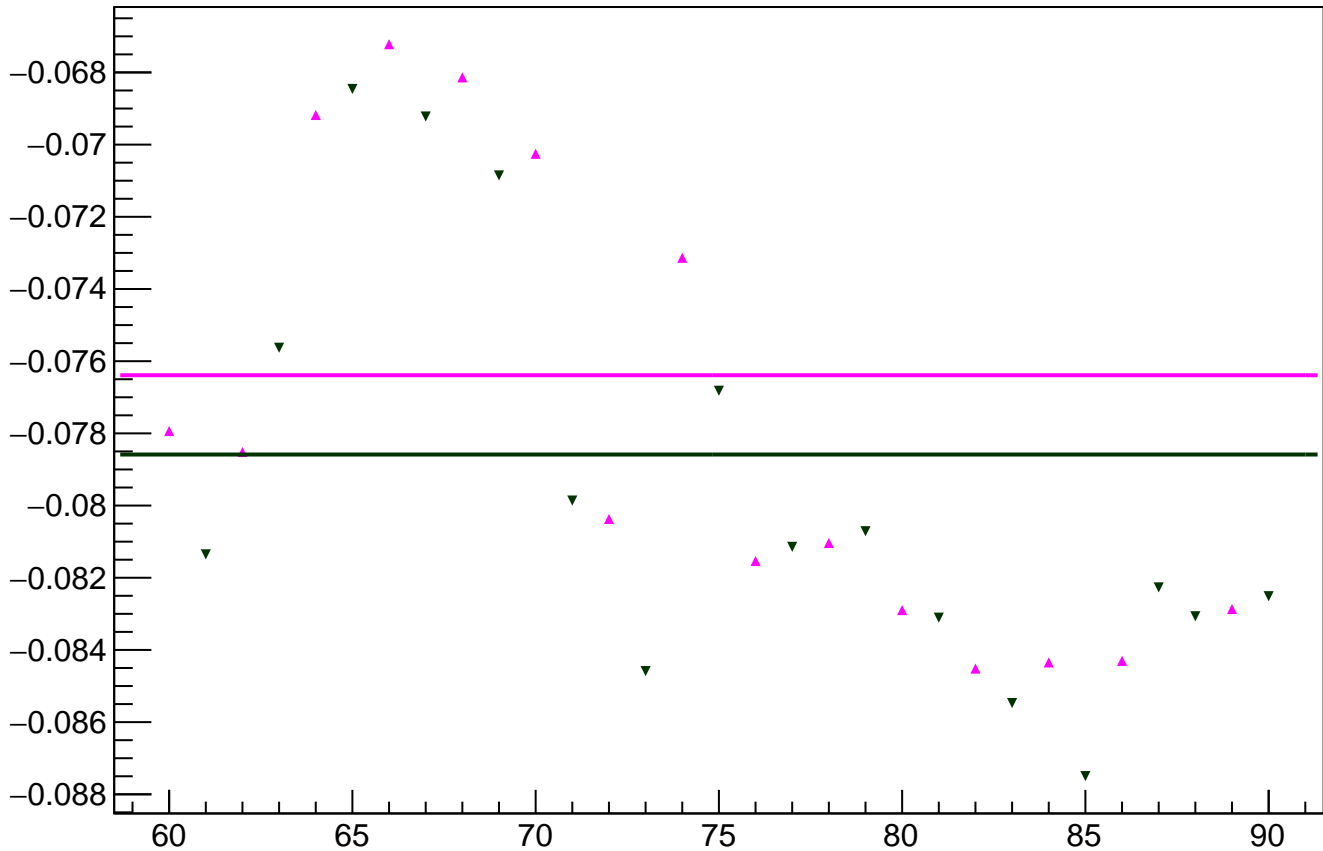
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.005+/-0.000  $\chi^2/\text{NDF}$ :3658160.7/14

0.005+/-0.000  $\chi^2/\text{NDF}$ : 3371455.1/15

0.005+/-0.000  $\chi^2/\text{NDF}$ : 3658160.7/14

# yield\_cav4cY\_mean vs slug



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

Left Out: -0.079+/-0.000  $\chi^2$ /NDF: 5184047.0/15

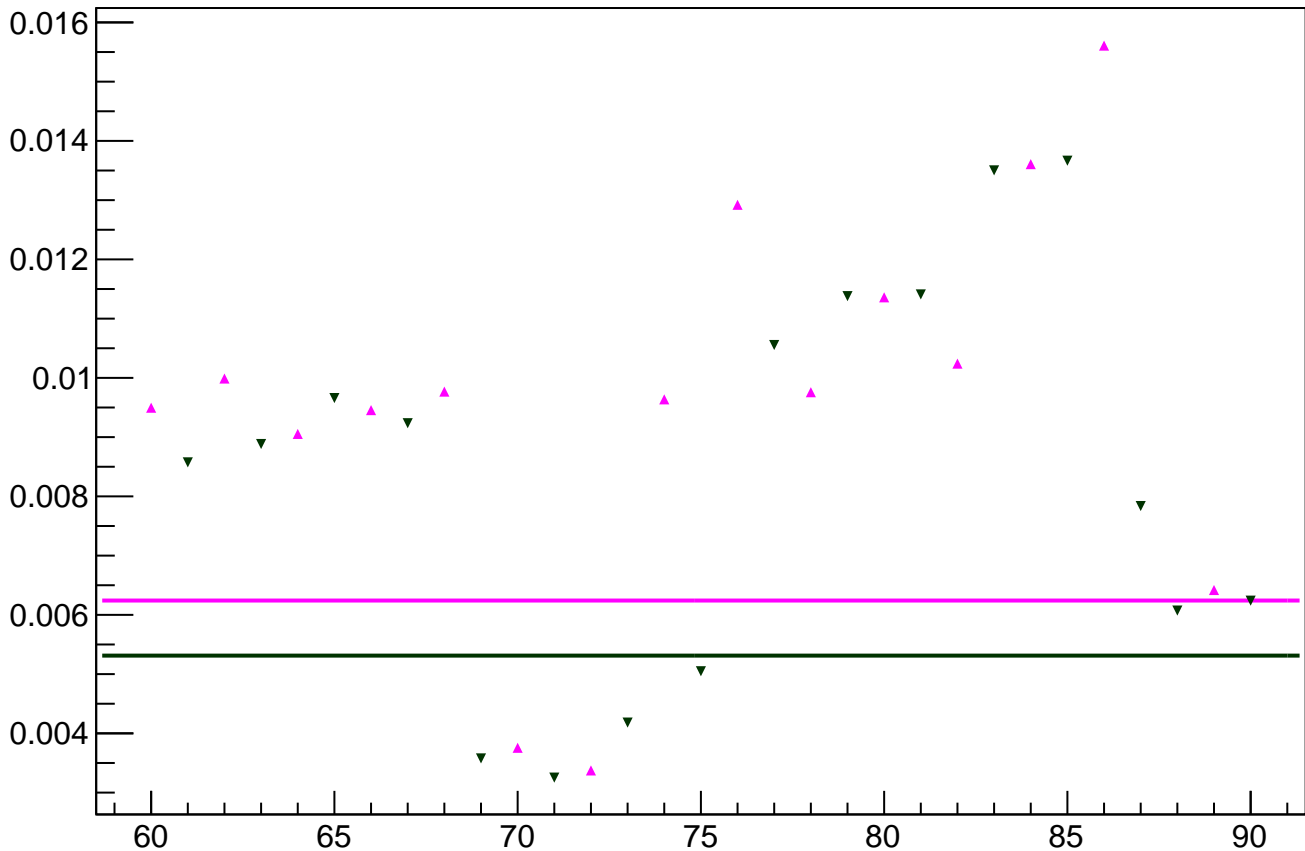
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.076+/-0.000  $\chi^2$ /NDF: 4455665.7/14

-0.079+/-0.000  $\chi^2$ /NDF: 5184047.0/15

-0.076+/-0.000  $\chi^2$ /NDF: 4455665.7/14

# yield\_cav4cY\_rms vs slug



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

Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ :2847454.5/15

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

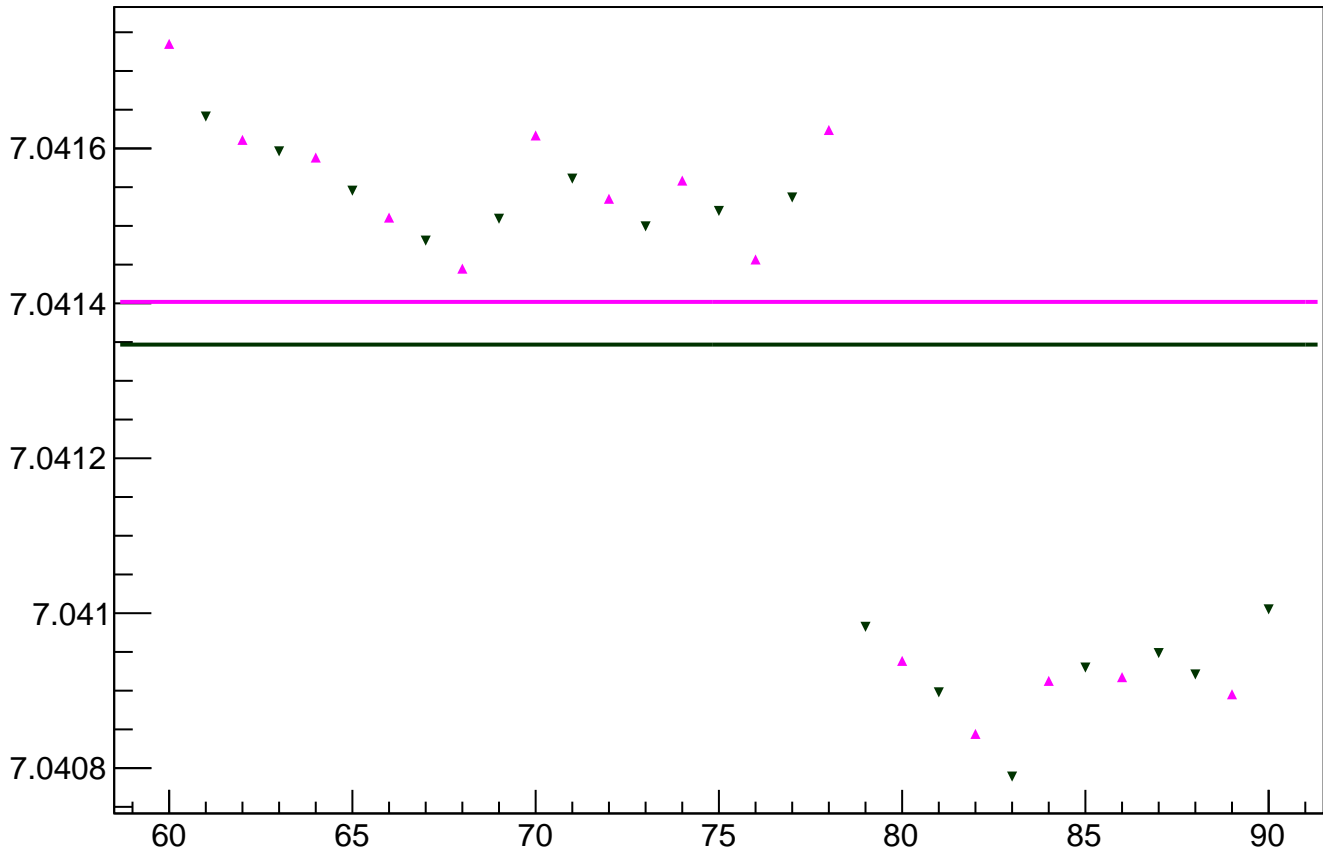
Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :3021205.4/14

0.005+/-0.000  $\chi^2/\text{NDF}$ : 2847454.5/15

0.006+/-0.000  $\chi^2/\text{NDF}$ : 3021205.4/14



# yield\_cav4dX\_mean vs slug



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

Left Out: 7.041+/-0.000  $\chi^2/\text{NDF}$ :21360406.9/15

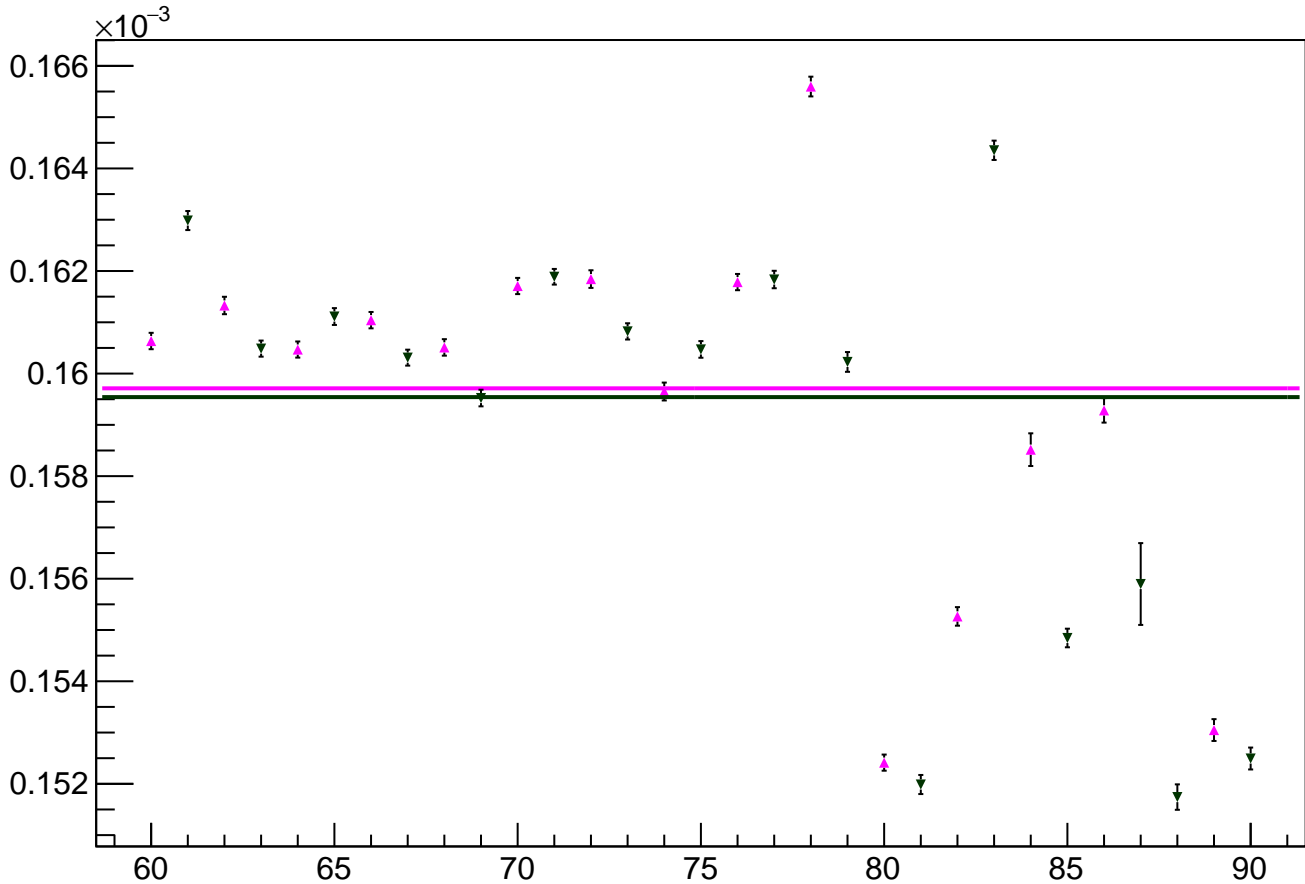
7.041+/-0.000  $\chi^2/\text{NDF}$ : 21360406.9/15

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

7.041+/-0.000  $\chi^2/\text{NDF}$ : 21414845.0/14

Left In: 7.041+/-0.000  $\chi^2/\text{NDF}$ :21414845.0/14

# yield\_cav4dX\_rms vs slug



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

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:6094.5/15

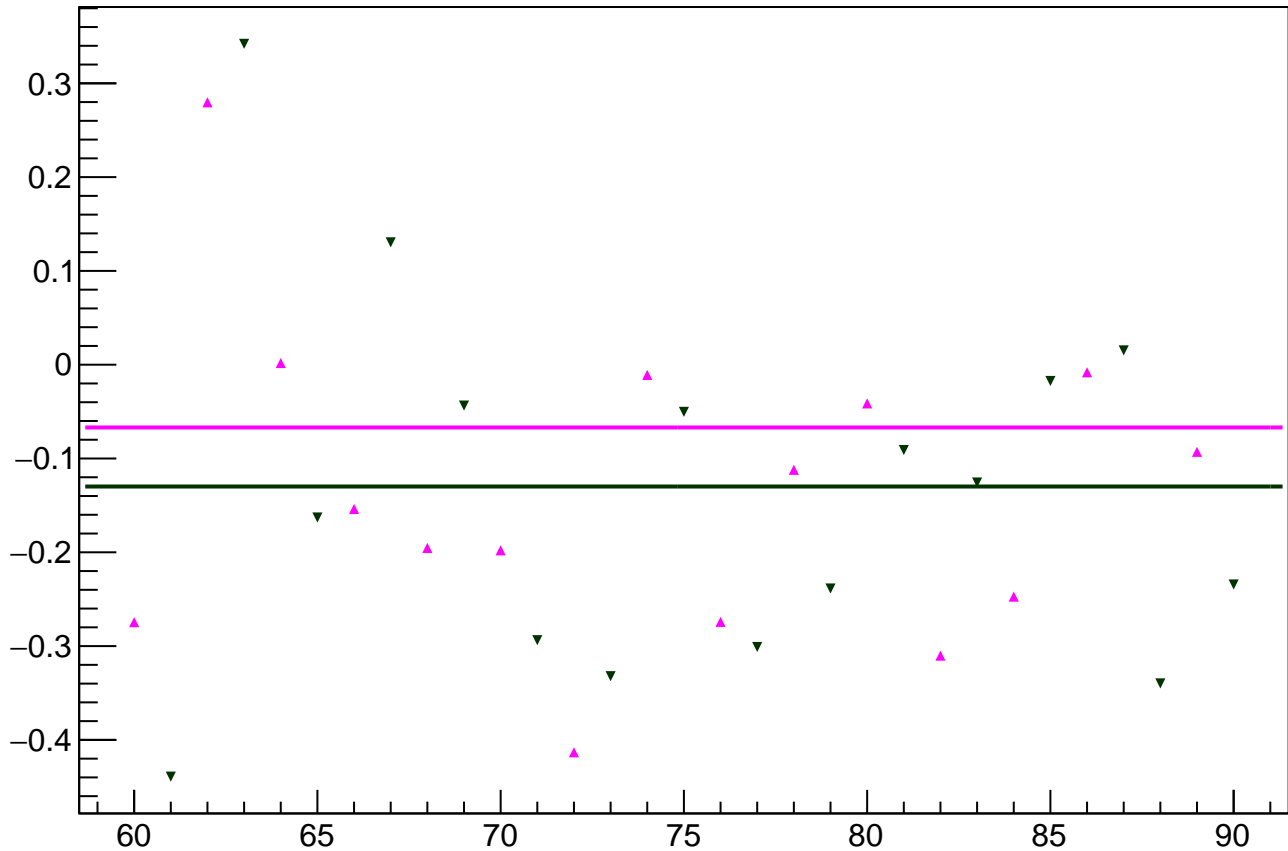
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:5413.8/14

0.000+/-0.000  $\chi^2$ /NDF: 6094.5/15

0.000+/-0.000  $\chi^2$ /NDF: 5413.8/14

# yield\_cav4dY\_mean vs slug



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

Left Out: -0.130+/-0.000  $\chi^2$ /NDF:19294343.8/15

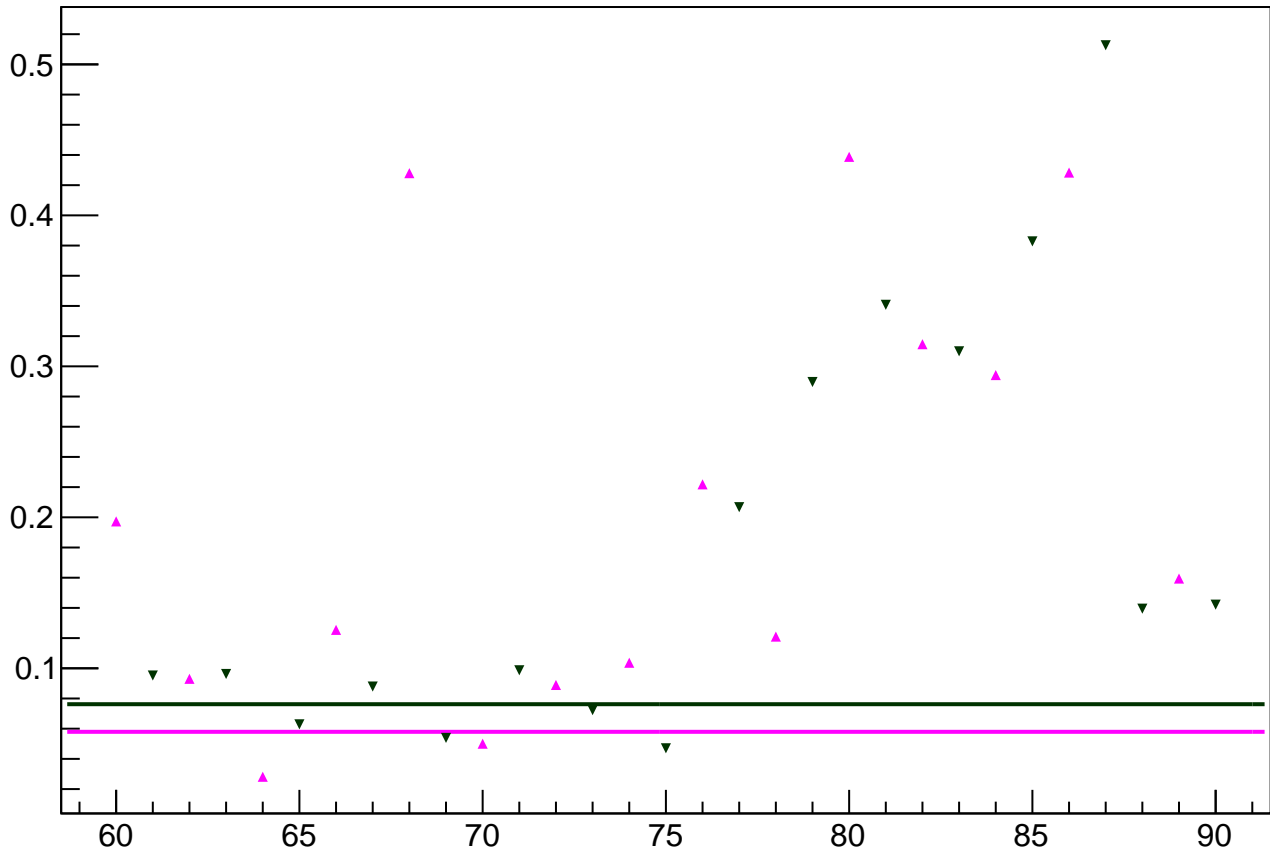
-0.130+/-0.000  $\chi^2$ /NDF: 19294343.8/15

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

-0.067+/-0.000  $\chi^2$ /NDF: 16024767.9/14

Left In: -0.067+/-0.000  $\chi^2$ /NDF:16024767.9/14

# yield\_cav4dY\_rms vs slug



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

Left Out: 0.076+/-0.000  $\chi^2/\text{NDF}$ : 3589025.7/15

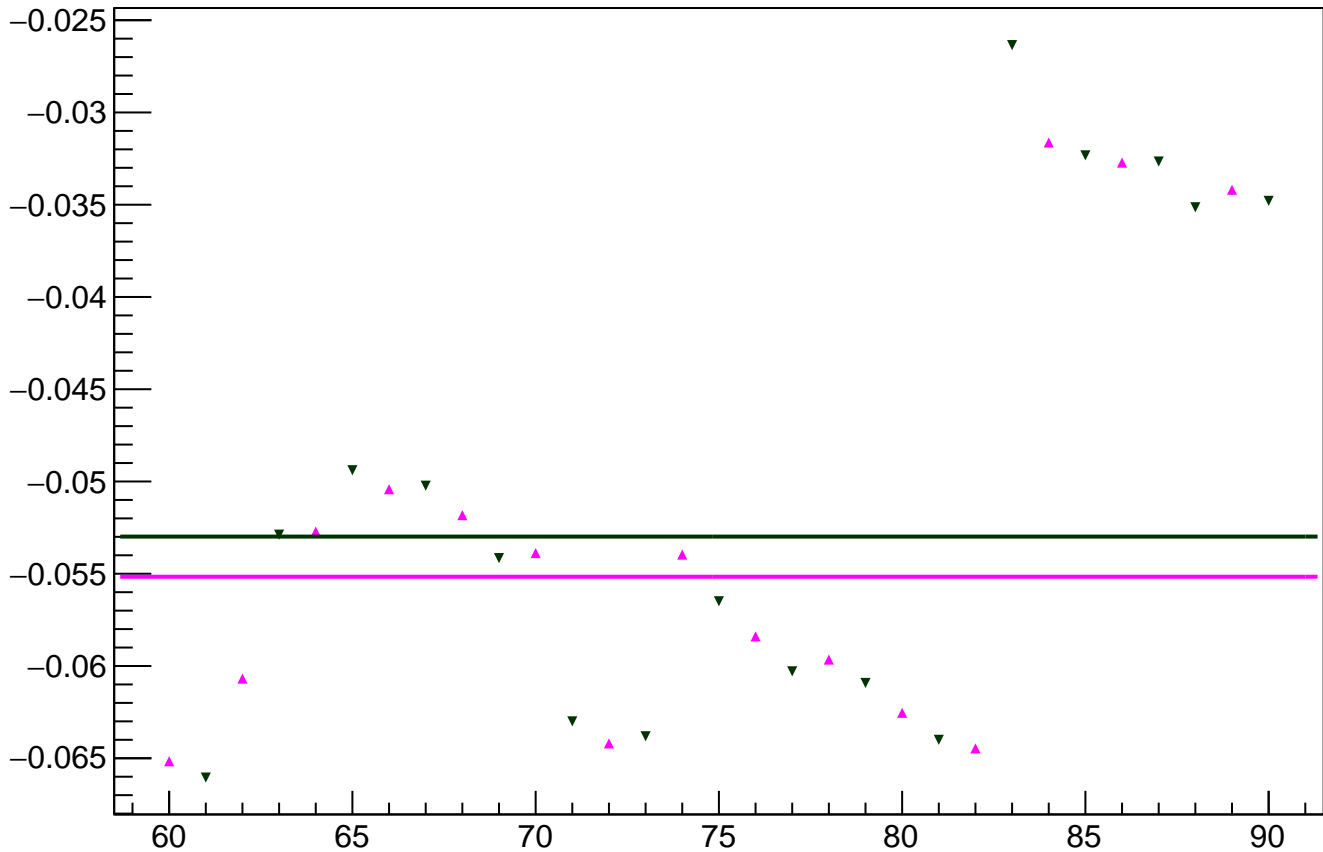
0.076+/-0.000  $\chi^2/\text{NDF}$ : 3589025.7/15

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

0.058+/-0.000  $\chi^2/\text{NDF}$ : 6297404.1/14

Left In: 0.058+/-0.000  $\chi^2/\text{NDF}$ : 6297404.1/14

# yield\_bpm4aX\_mean vs slug



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

Left Out: -0.053+/-0.000  $\chi^2$ /NDF: 9439611.3/15

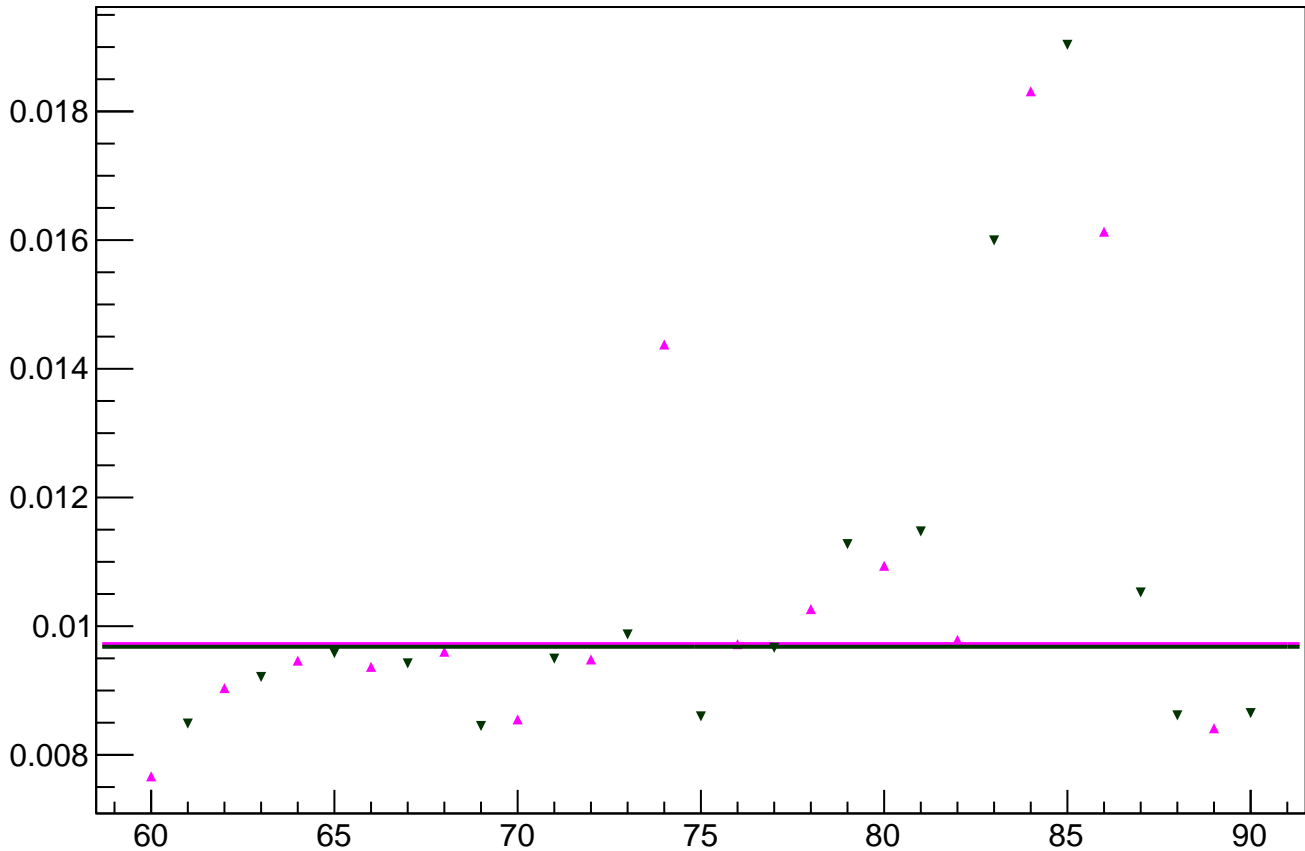
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.055+/-0.000  $\chi^2$ /NDF: 7173304.5/14

-0.053+/-0.000  $\chi^2$ /NDF: 9439611.3/15

-0.055+/-0.000  $\chi^2$ /NDF: 7173304.5/14

# yield\_bpm4aX\_rms vs slug



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

Left Out: 0.010+/-0.000  $\chi^2$ /NDF:530731.5/15

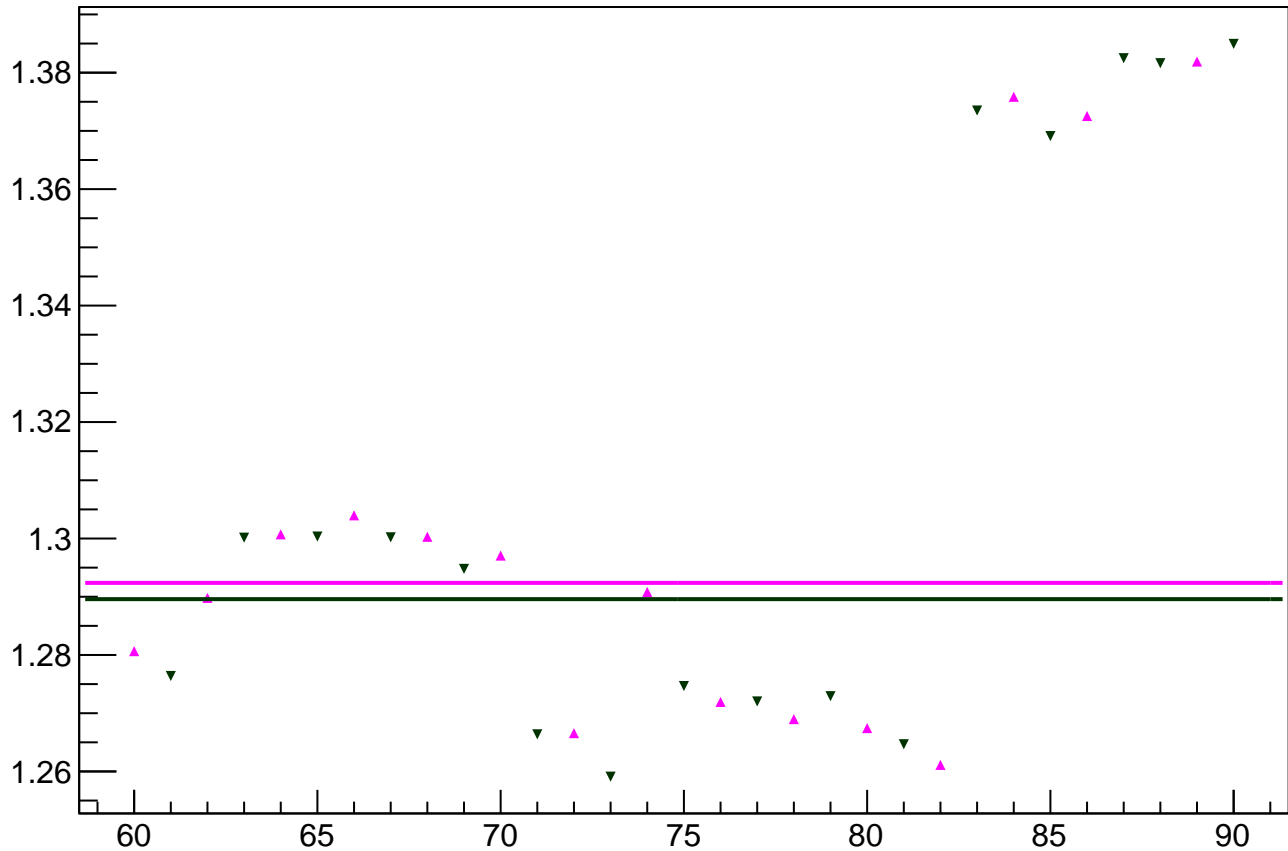
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.010+/-0.000  $\chi^2$ /NDF:632868.1/14

0.010+/-0.000  $\chi^2$ /NDF: 530731.5/15

0.010+/-0.000  $\chi^2$ /NDF: 632868.1/14

# yield\_bpm4aY\_mean vs slug



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

Left Out: 1.290+/-0.000  $\chi^2/\text{NDF}$ : 23821142.2/15

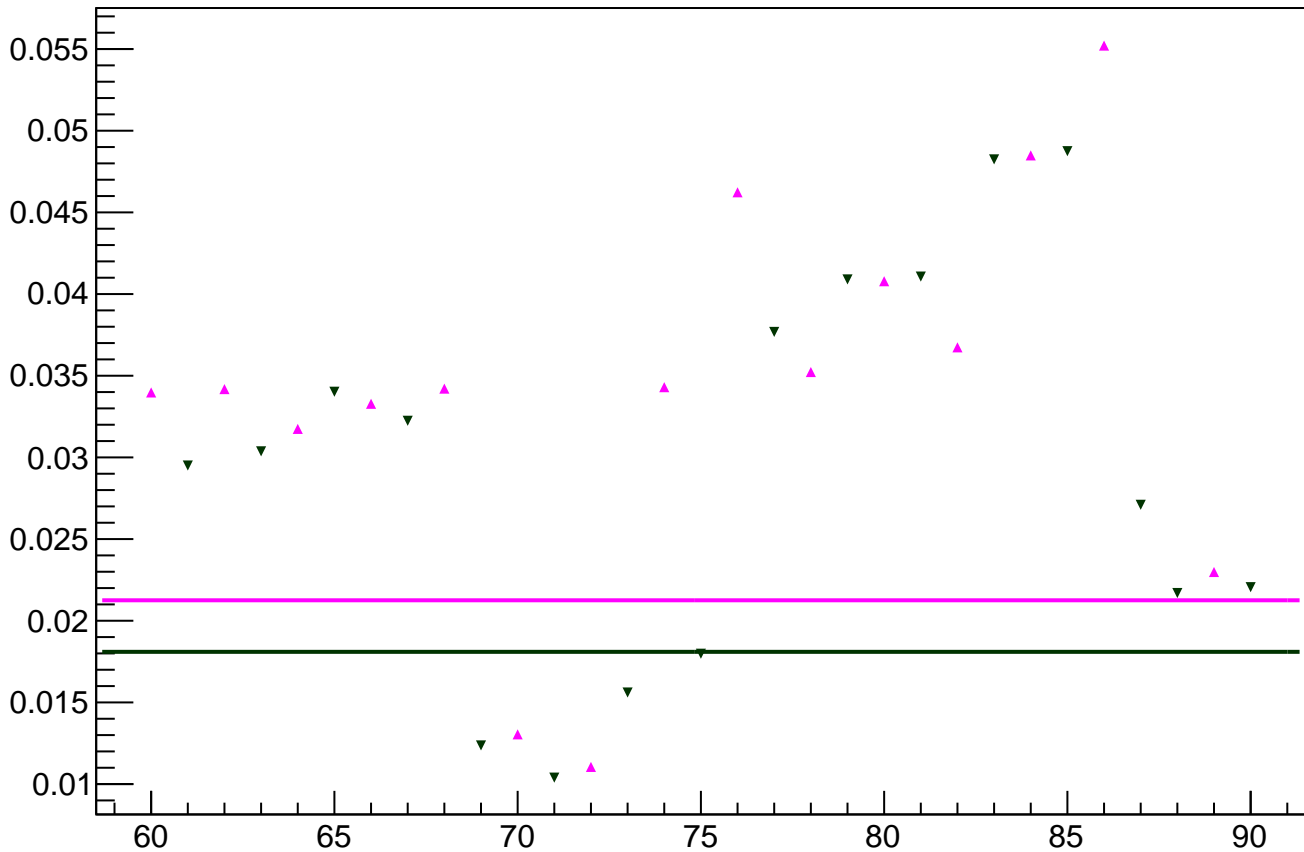
1.290+/-0.000  $\chi^2/\text{NDF}$ : 23821142.2/15

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

1.292+/-0.000  $\chi^2/\text{NDF}$ : 12185387.3/14

Left In: 1.292+/-0.000  $\chi^2/\text{NDF}$ : 12185387.3/14

# yield\_bpm4aY\_rms vs slug



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

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 3109245.8/15

0.018+/-0.000  $\chi^2/\text{NDF}$ : 3109245.8/15

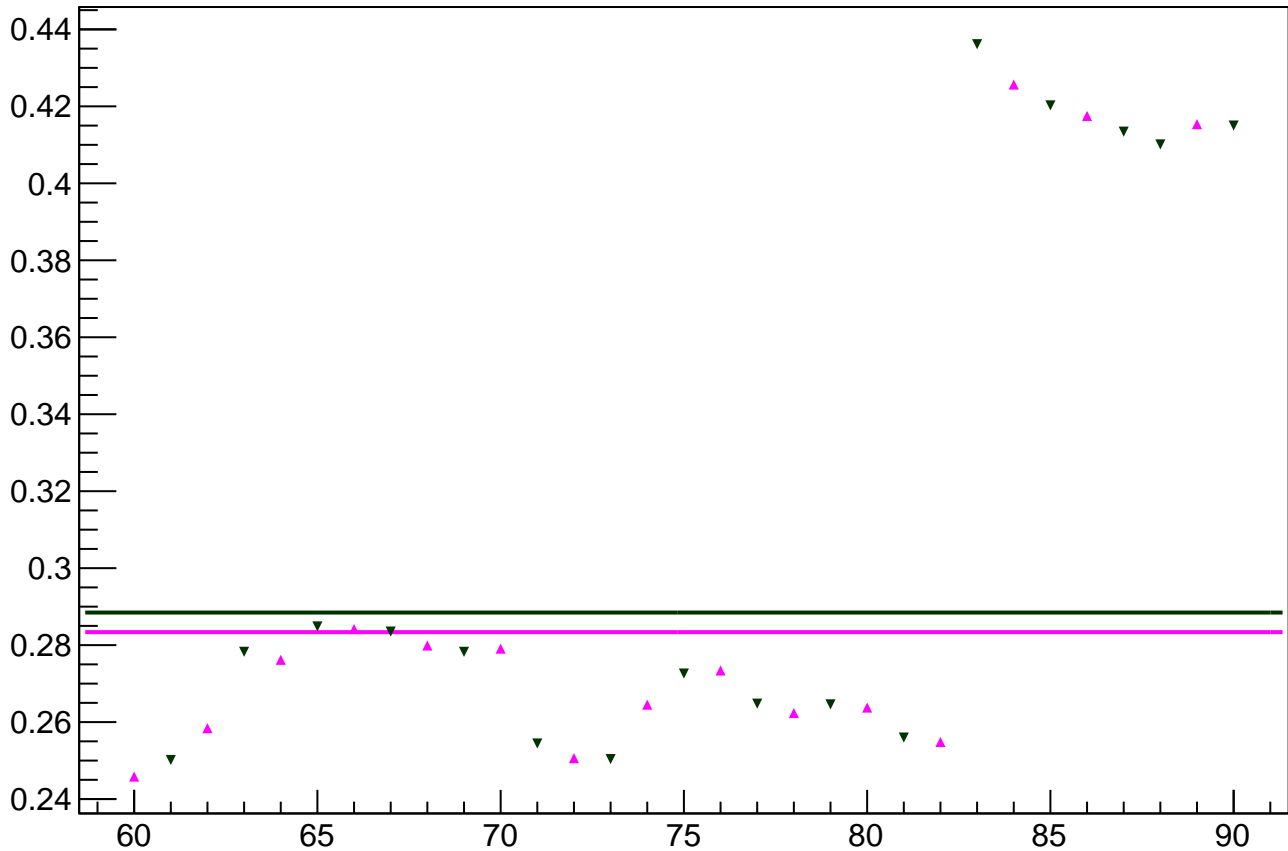
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.021+/-0.000  $\chi^2/\text{NDF}$ : 3295345.2/14

Left In: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 3295345.2/14



# yield\_bpm4eX\_mean vs slug



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

0.288+/-0.000  $\chi^2$ /NDF: 19179549.9/15

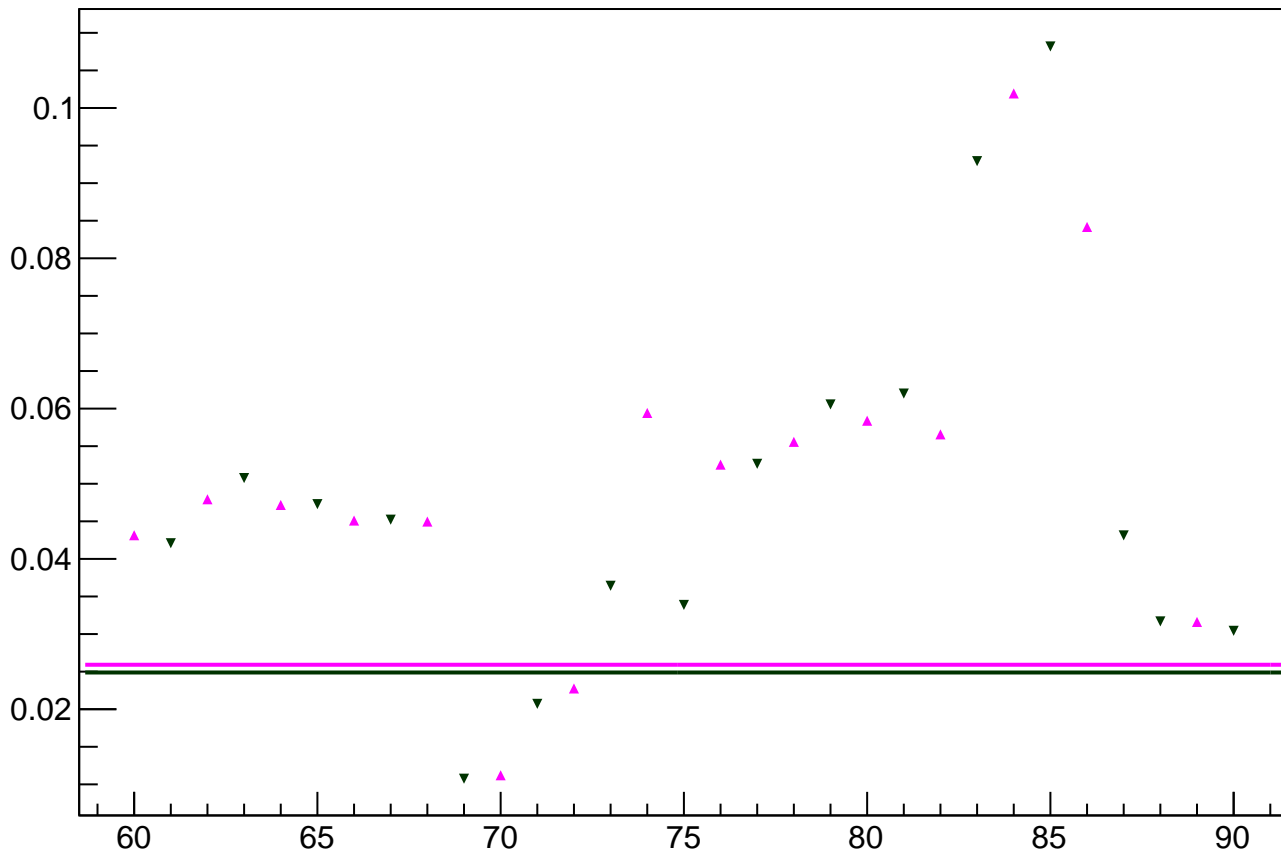
Left Out: 0.288+/-0.000  $\chi^2$ /NDF: 19179549.9/15

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

0.283+/-0.000  $\chi^2$ /NDF: 11623146.0/14

Left In: 0.283+/-0.000  $\chi^2$ /NDF: 11623146.0/14

# yield\_bpm4eX\_rms vs slug



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

Left Out: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 4684783.4/15

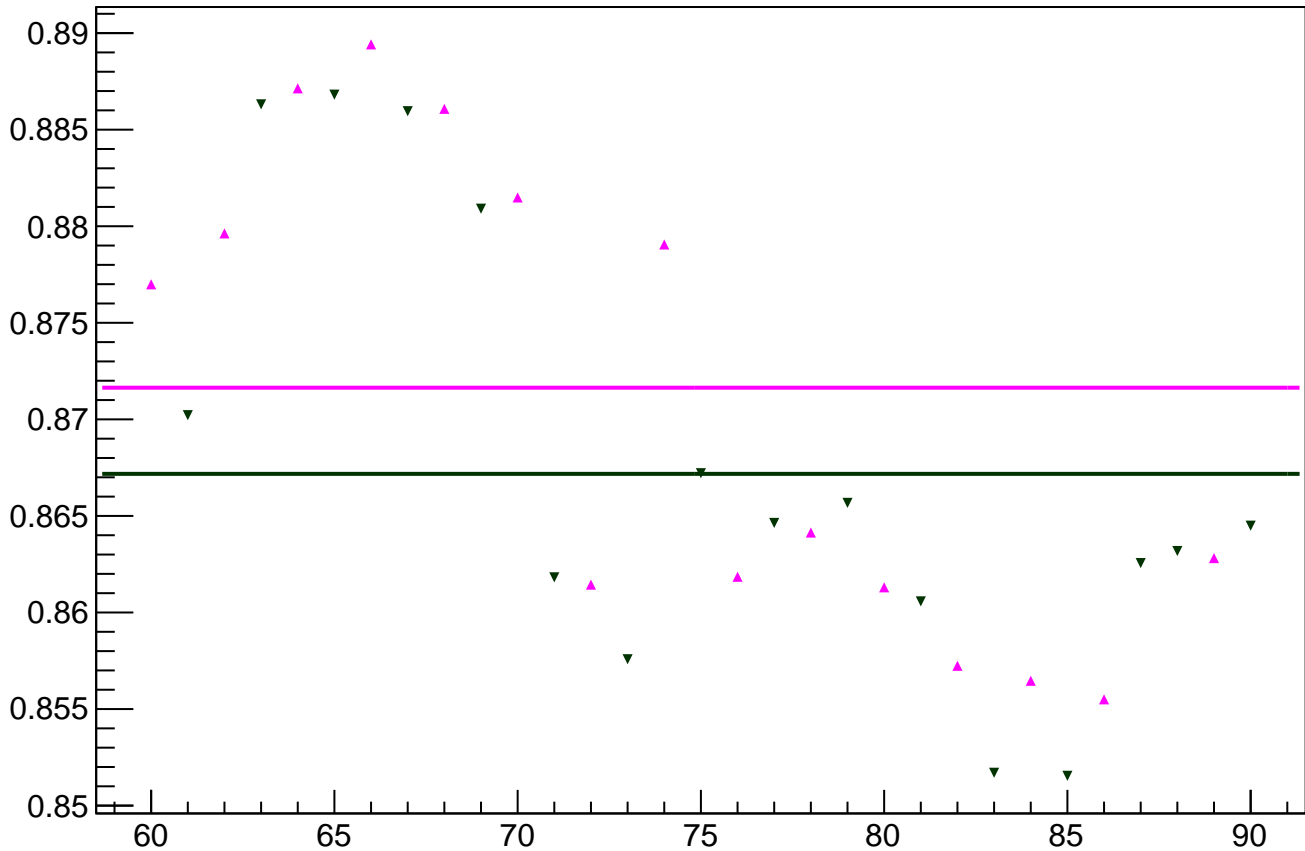
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 5077917.6/14

0.025+/-0.000  $\chi^2/\text{NDF}$ : 4684783.4/15

0.026+/-0.000  $\chi^2/\text{NDF}$ : 5077917.6/14

# yield\_bpm4eY\_mean vs slug



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

Left Out: 0.867+/-0.000  $\chi^2/\text{NDF}$ : 2463591.6/15

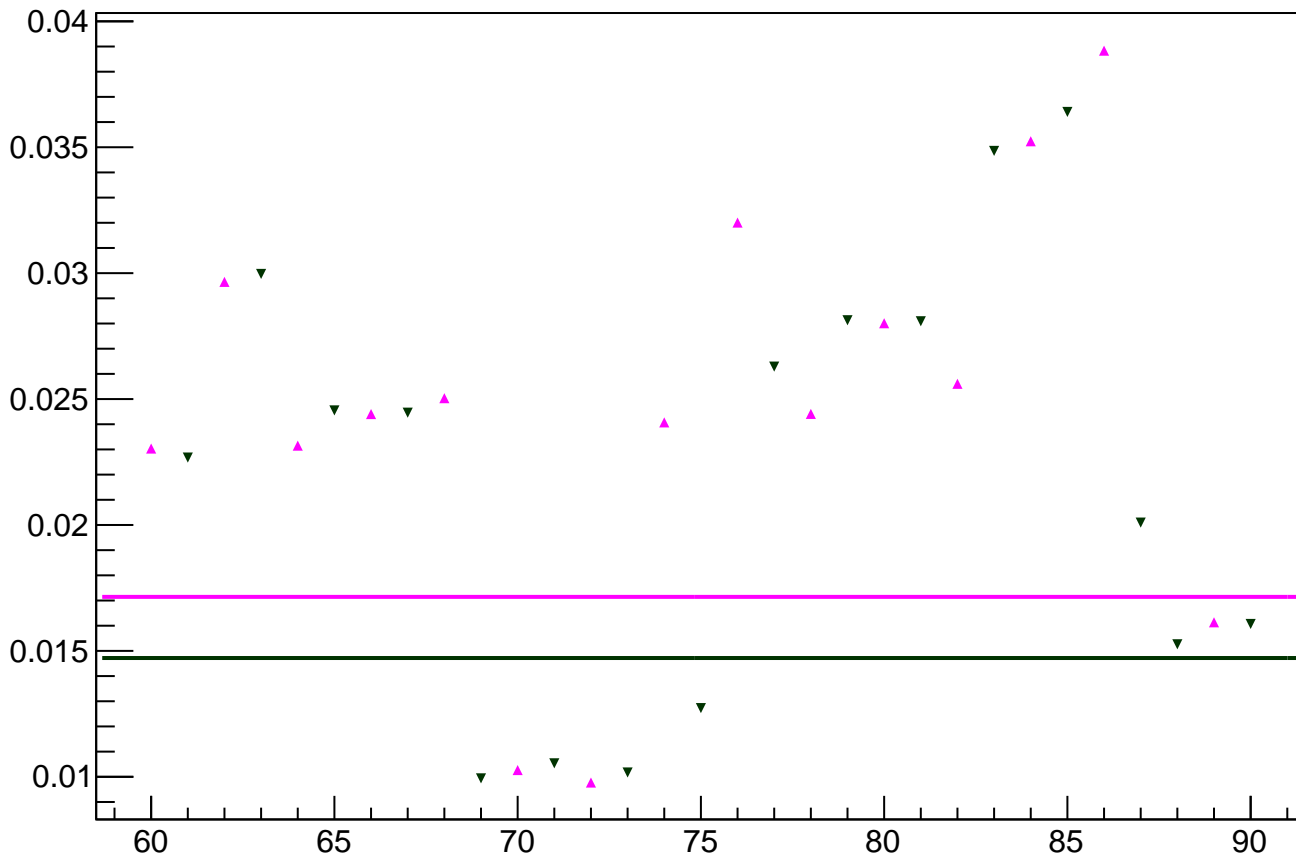
0.867+/-0.000  $\chi^2/\text{NDF}$ : 2463591.6/15

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

0.872+/-0.000  $\chi^2/\text{NDF}$ : 2243149.8/14

Left In: 0.872+/-0.000  $\chi^2/\text{NDF}$ : 2243149.8/14

# yield\_bpm4eY\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2$ /NDF:2507900.2/15

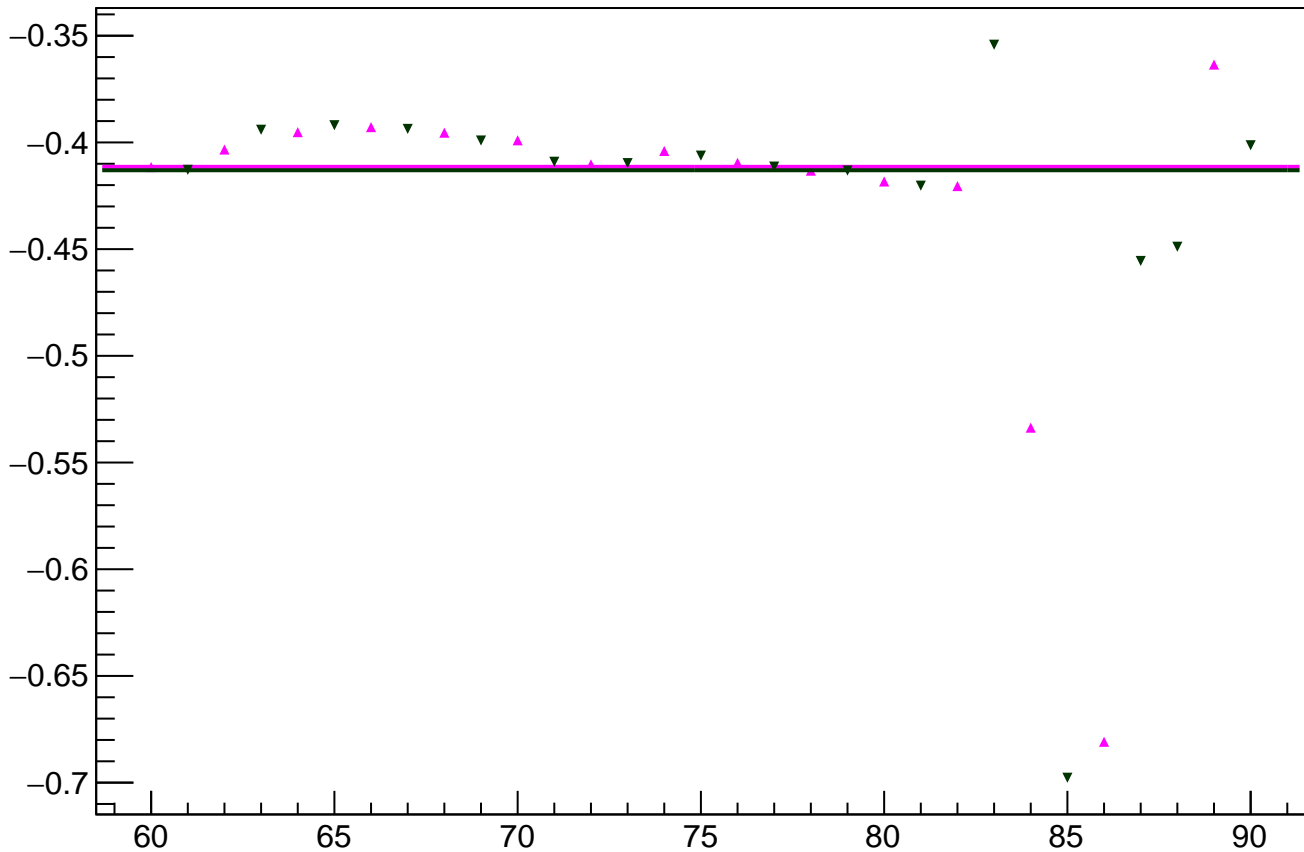
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.017+/-0.000  $\chi^2$ /NDF:2536330.3/14

0.015+/-0.000  $\chi^2$ /NDF: 2507900.2/15

0.017+/-0.000  $\chi^2$ /NDF: 2536330.3/14

# yield\_bpm4acX\_mean vs slug



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

Left Out: -0.413+/-0.000  $\chi^2$ /NDF: 147120379.0/15

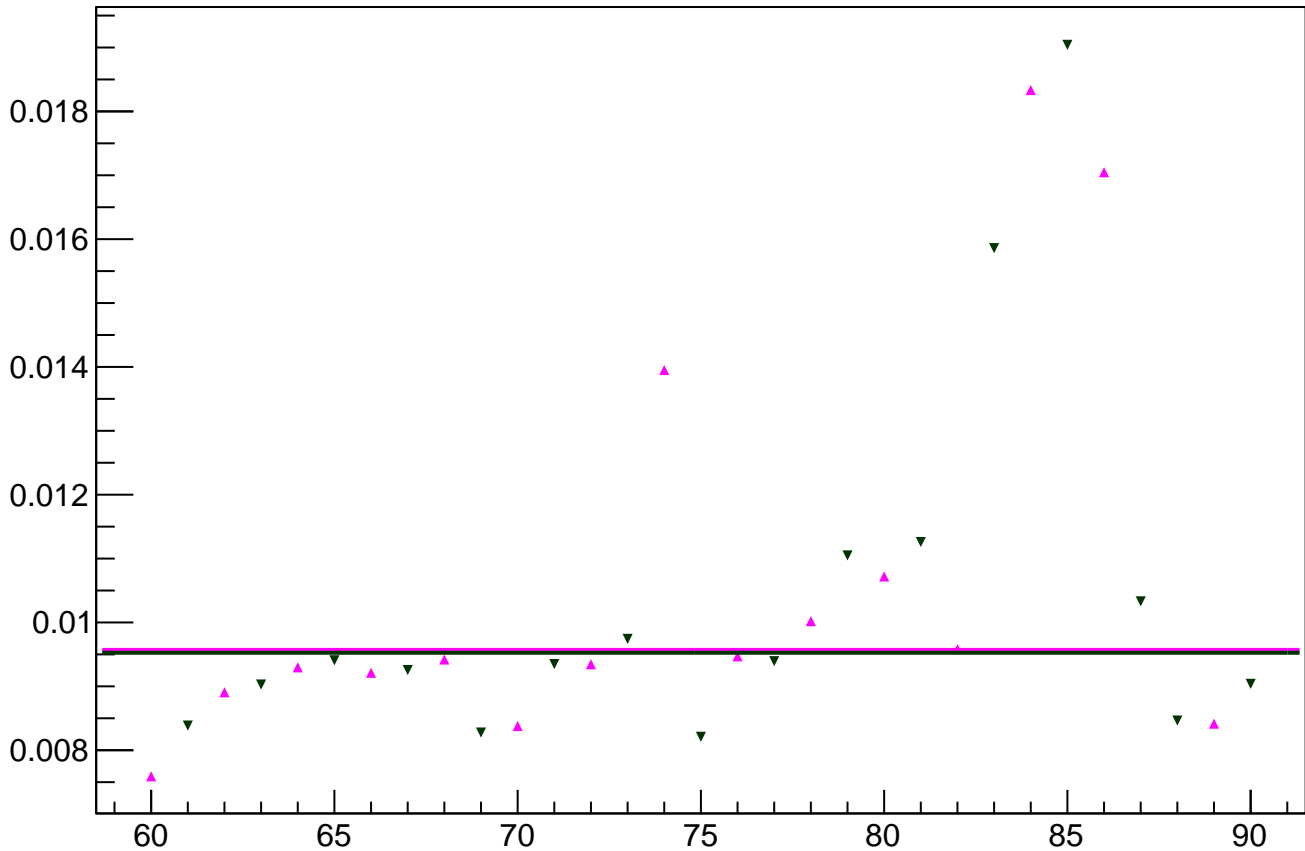
-0.413+/-0.000  $\chi^2$ /NDF: 147120379.0/15

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

-0.411+/-0.000  $\chi^2$ /NDF: 175563156.6/14

Left In: -0.411+/-0.000  $\chi^2$ /NDF: 175563156.6/14

# yield\_bpm4acX\_rms vs slug



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

Left Out: 0.010+/-0.000  $\chi^2$ /NDF:542282.1/15

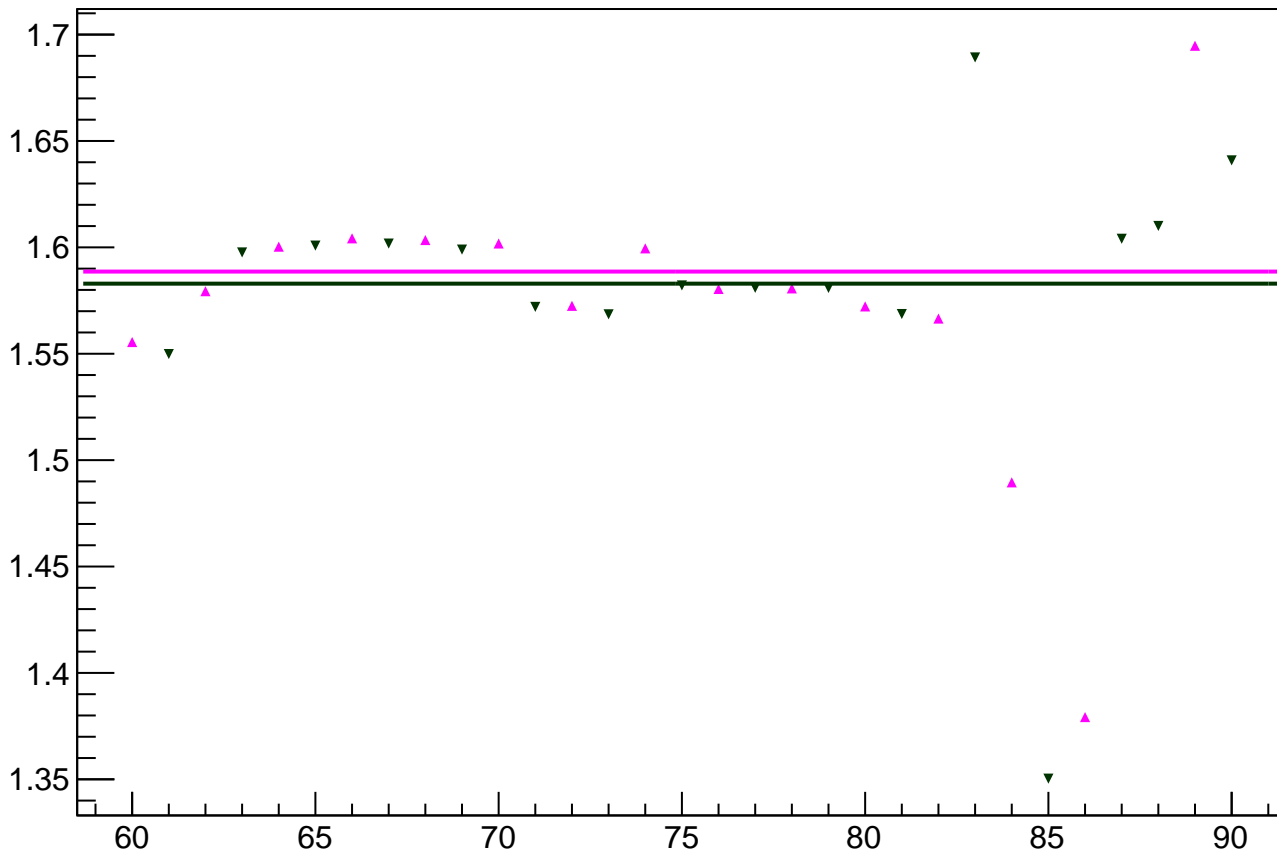
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.010+/-0.000  $\chi^2$ /NDF:662151.7/14

0.010+/-0.000  $\chi^2$ /NDF: 542282.1/15

0.010+/-0.000  $\chi^2$ /NDF: 662151.7/14

# yield\_bpm4acY\_mean vs slug



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

Left Out: 1.583+/-0.000  $\chi^2$ /NDF:18659232.8/15

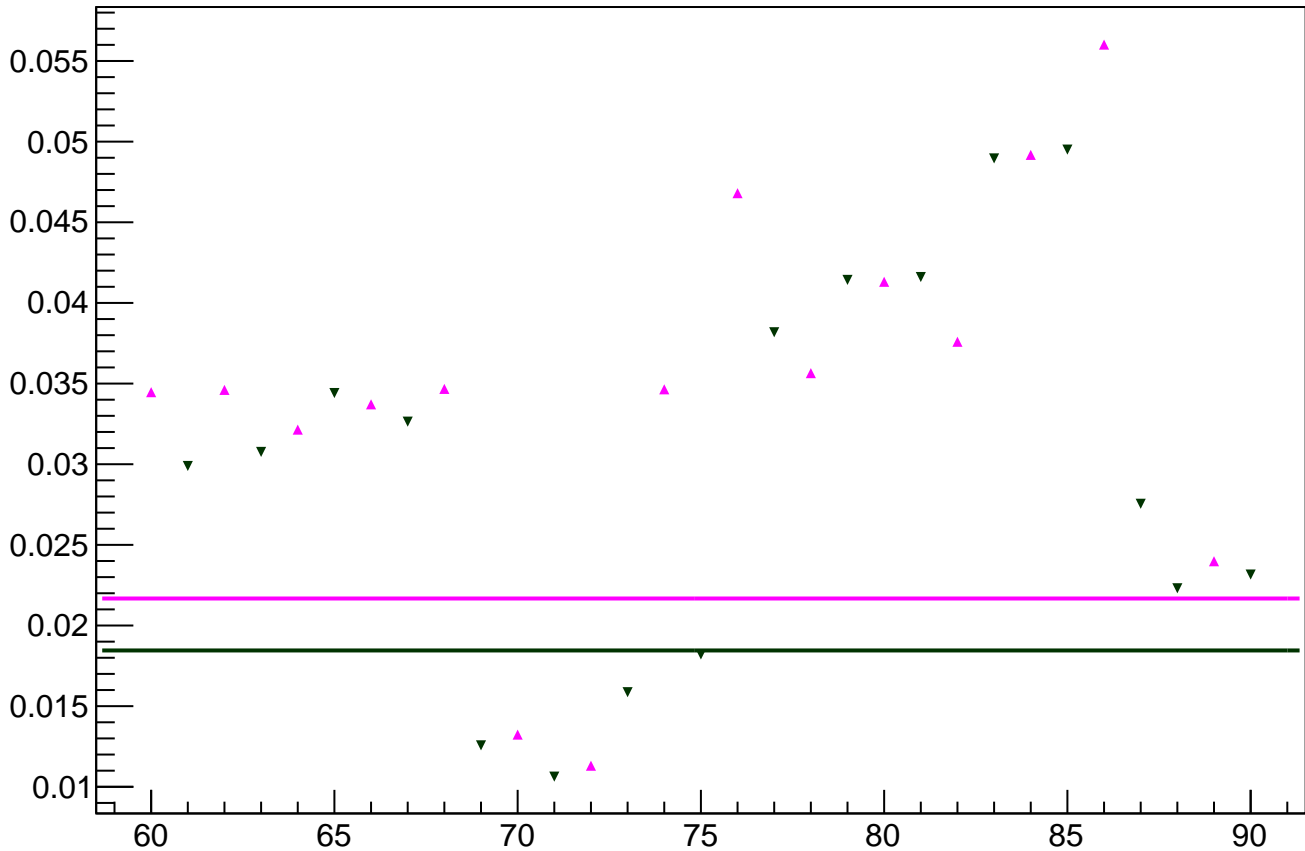
1.583+/-0.000  $\chi^2$ /NDF: 18659232.8/15

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

Left In: 1.589+/-0.000  $\chi^2$ /NDF:19209376.8/14

1.589+/-0.000  $\chi^2$ /NDF: 19209376.8/14

# yield\_bpm4acY\_rms vs slug



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

Left Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ :3089234.1/15

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

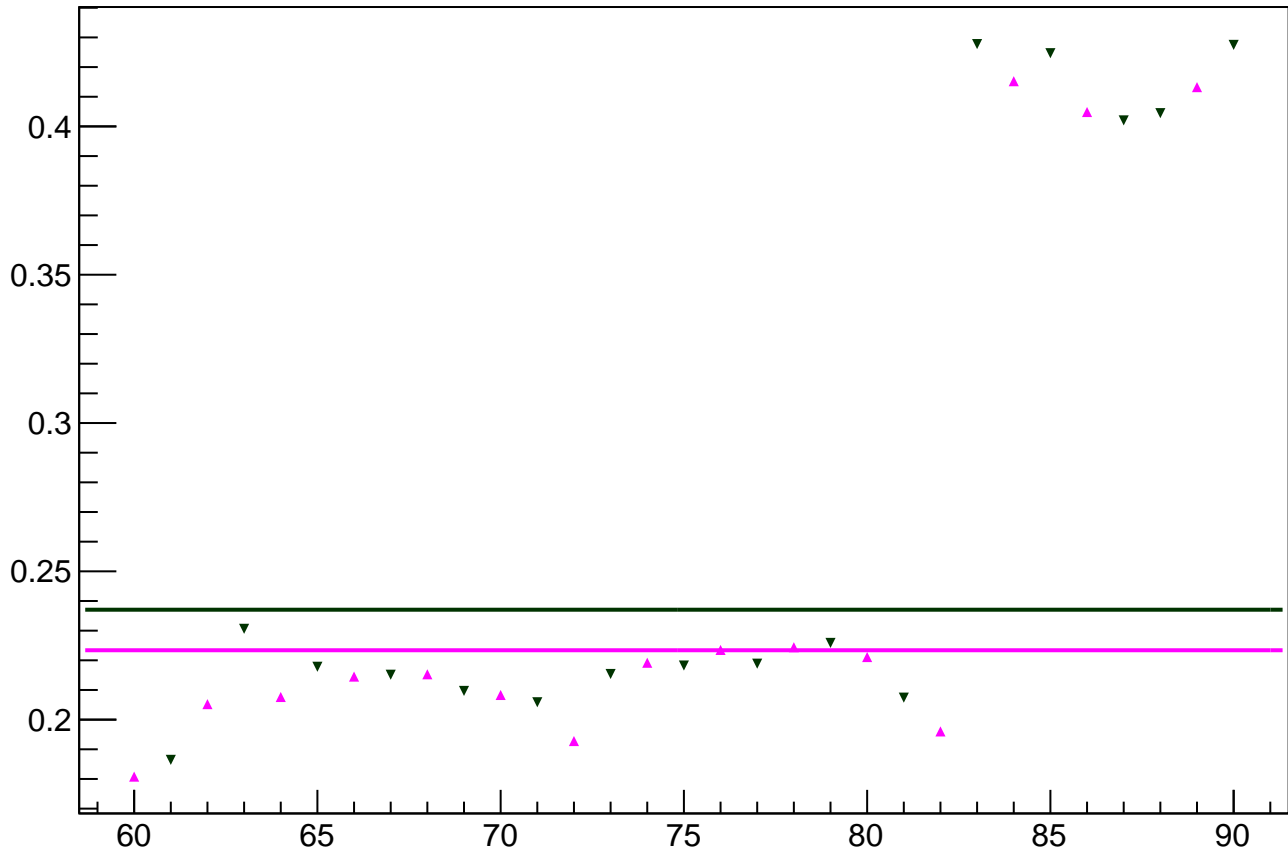
Left In: 0.022+/-0.000  $\chi^2/\text{NDF}$ :3267297.7/14

0.018+/-0.000  $\chi^2/\text{NDF}$ : 3089234.1/15

0.022+/-0.000  $\chi^2/\text{NDF}$ : 3267297.7/14



# yield\_bpm4ecX\_mean vs slug



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

Left Out: 0.237+/-0.000  $\chi^2/\text{NDF}$ : 38246381.2/15

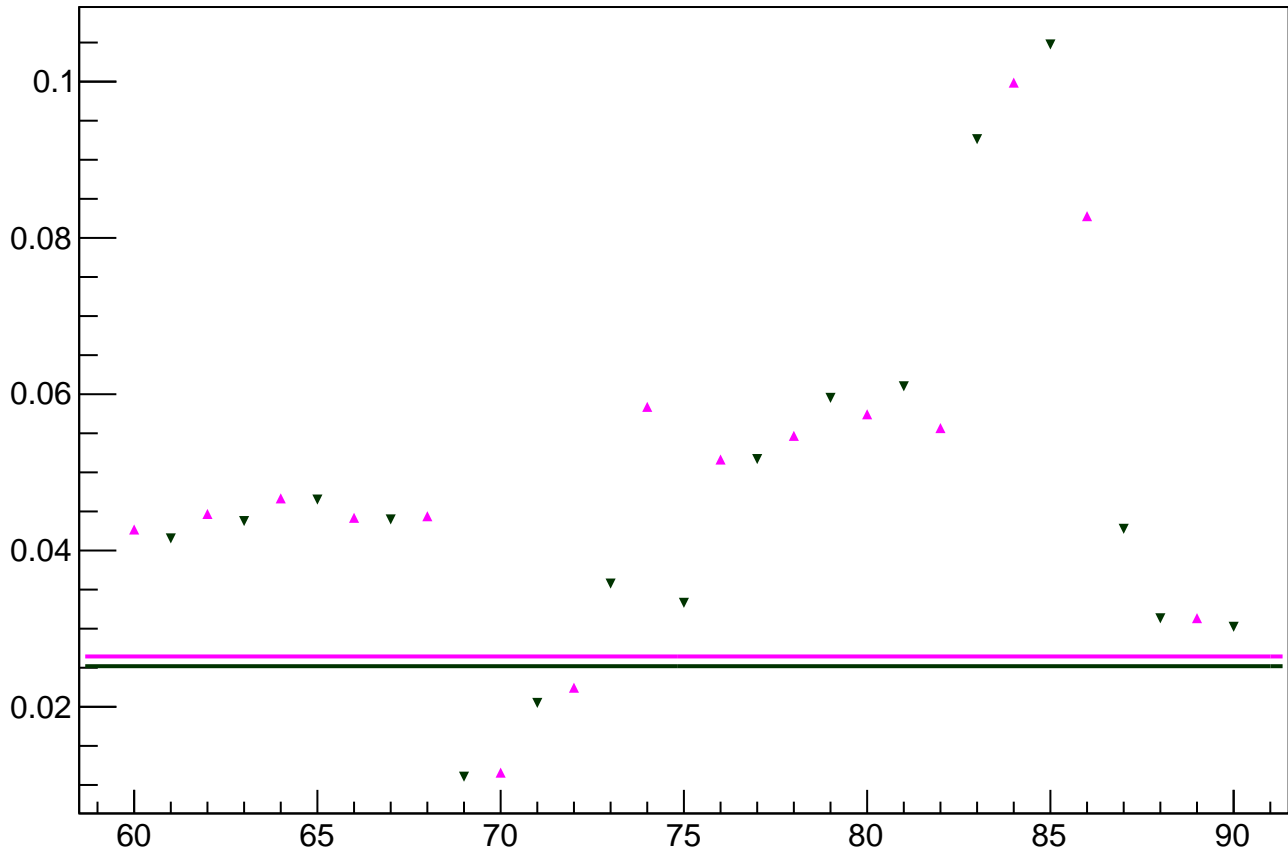
0.237+/-0.000  $\chi^2/\text{NDF}$ : 38246381.2/15

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

0.223+/-0.000  $\chi^2/\text{NDF}$ : 22640225.2/14

Left In: 0.223+/-0.000  $\chi^2/\text{NDF}$ : 22640225.2/14

# yield\_bpm4ecX\_rms vs slug



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

Left Out: 0.025+/-0.000  $\chi^2/\text{NDF}$ : 4399819.8/15

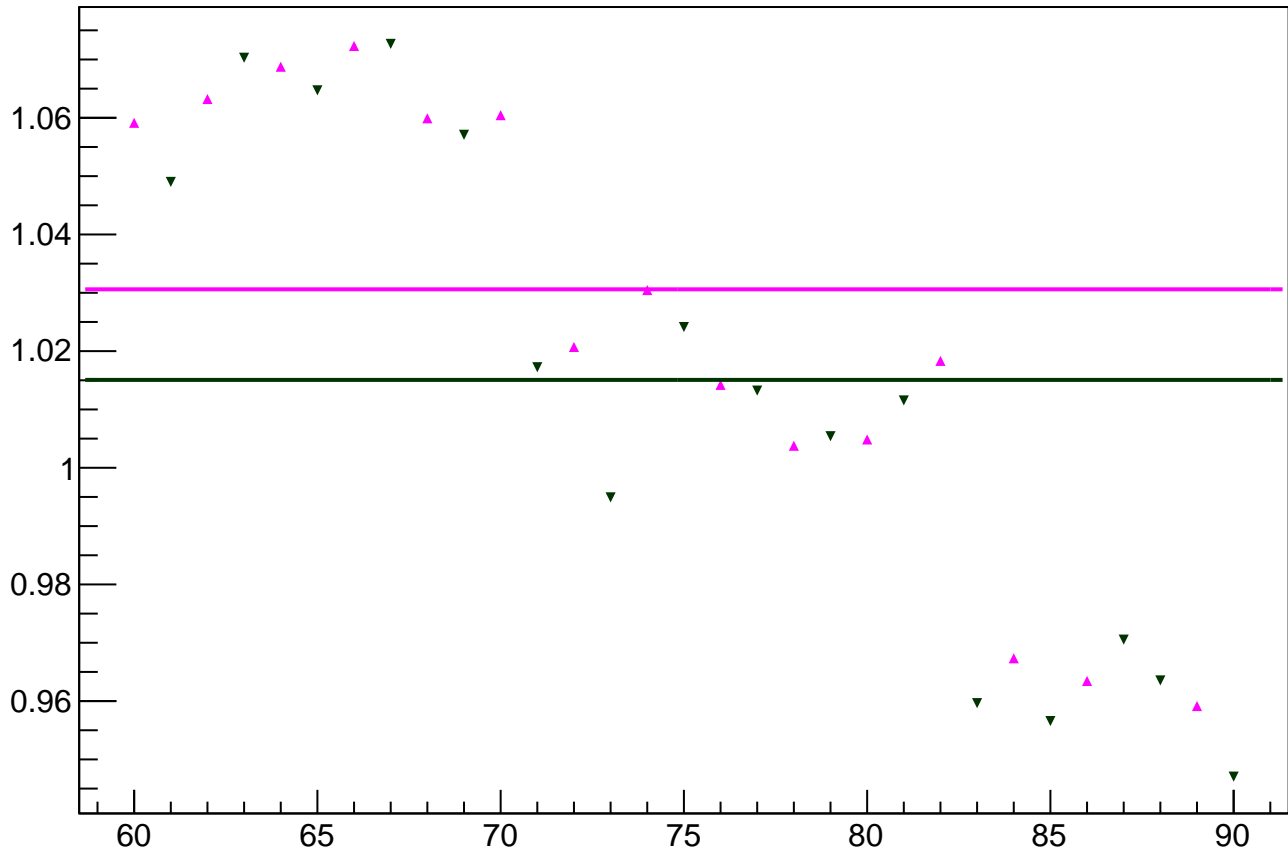
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.026+/-0.000  $\chi^2/\text{NDF}$ : 4802732.2/14

0.025+/-0.000  $\chi^2/\text{NDF}$ : 4399819.8/15

0.026+/-0.000  $\chi^2/\text{NDF}$ : 4802732.2/14

# yield\_bpm4ecY\_mean vs slug



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

Left Out: 1.015+/-0.000  $\chi^2/\text{NDF}$ :29637405.5/15

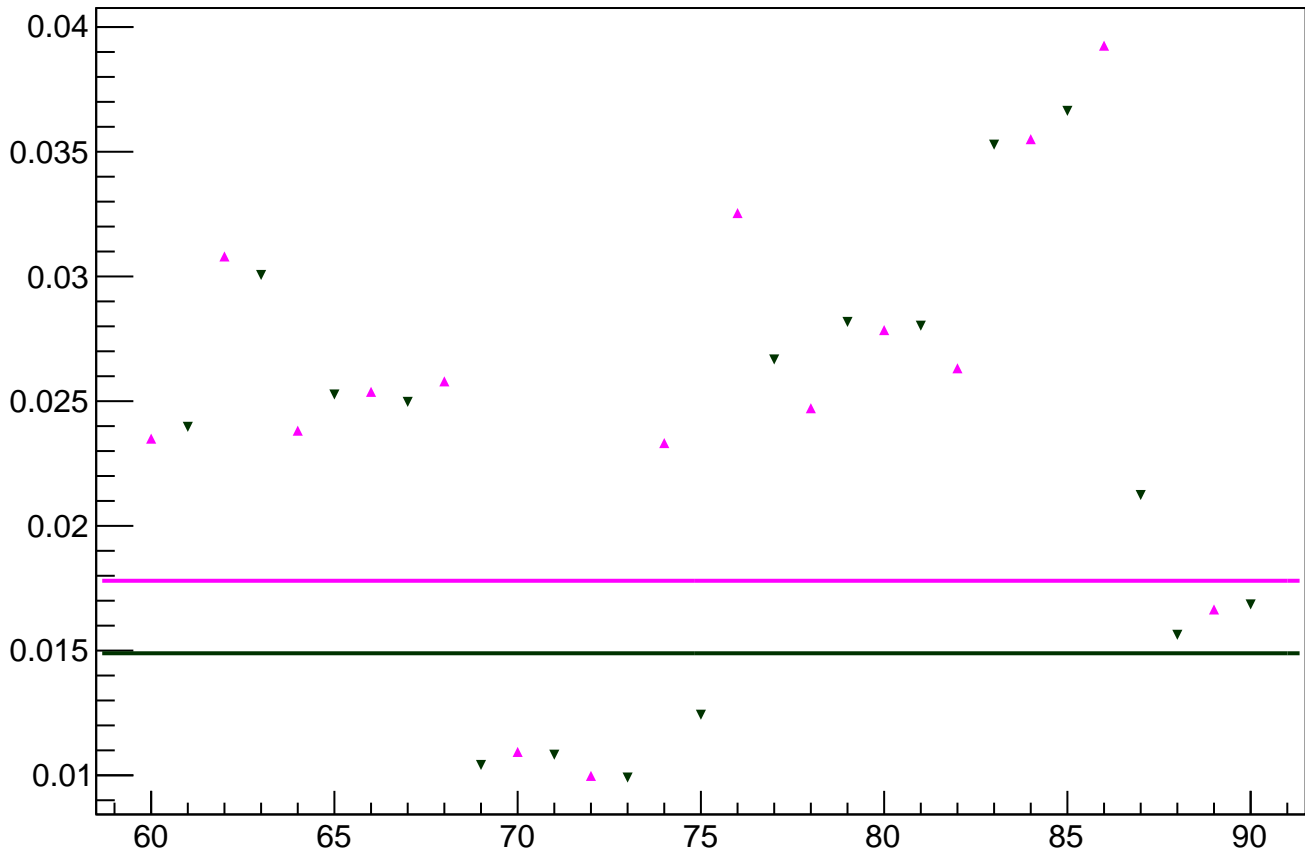
1.015+/-0.000  $\chi^2/\text{NDF}$ : 29637405.5/15

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

1.031+/-0.000  $\chi^2/\text{NDF}$ : 20190408.2/14

Left In: 1.031+/-0.000  $\chi^2/\text{NDF}$ :20190408.2/14

# yield\_bpm4ecY\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2525347.8/15

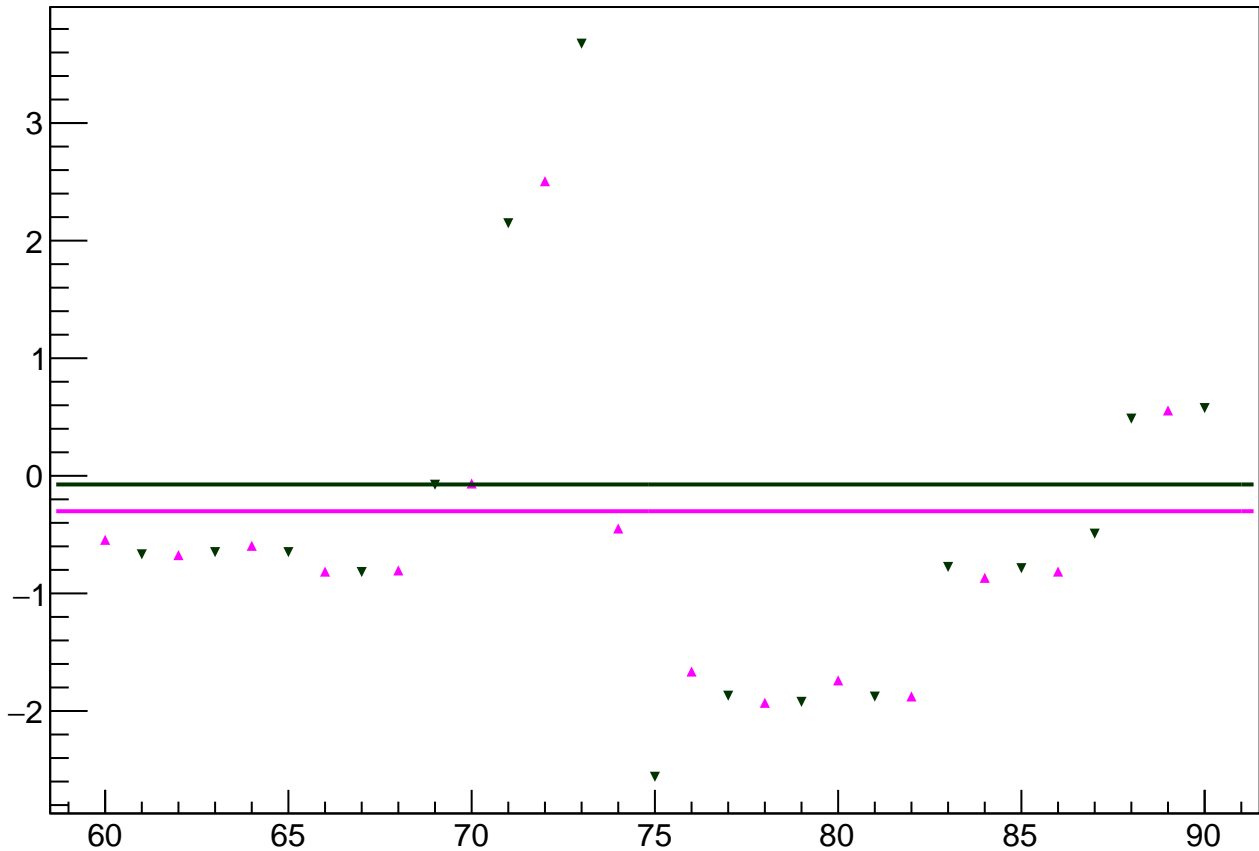
0.015+/-0.000  $\chi^2/\text{NDF}$ : 2525347.8/15

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

0.018+/-0.000  $\chi^2/\text{NDF}$ : 2421453.2/14

Left In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 2421453.2/14

# yield\_bpm1X\_mean vs slug



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

Left Out: -0.074+/-0.000  $\chi^2$ /NDF:1115592039.4/15

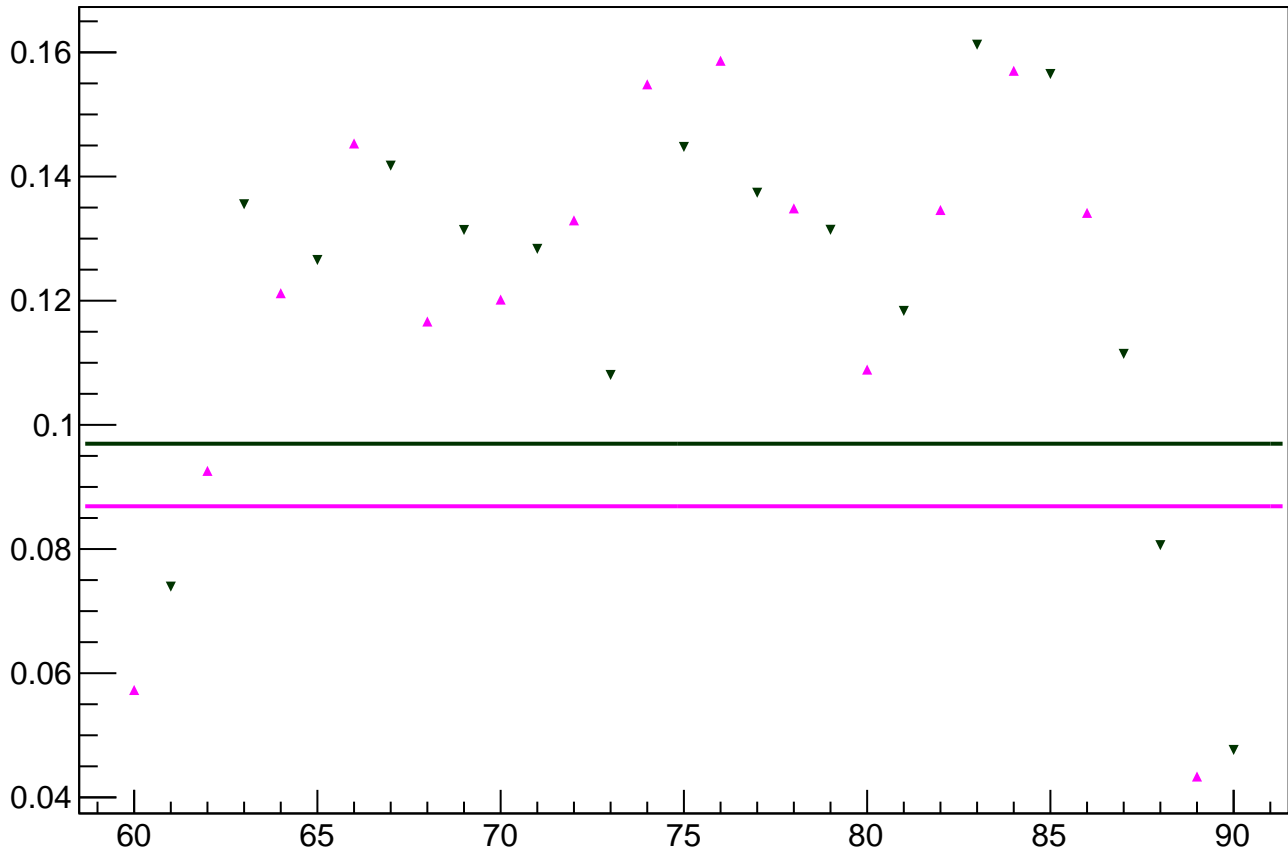
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.301+/-0.000  $\chi^2$ /NDF:624353104.9/14

-0.074+/-0.000  $\chi^2$ /NDF: 1115592039.4/15

-0.301+/-0.000  $\chi^2$ /NDF: 624353104.9/14

# yield\_bpm1X\_rms vs slug



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

Left Out: 0.097+/-0.000  $\chi^2$ /NDF:1849464.4/15

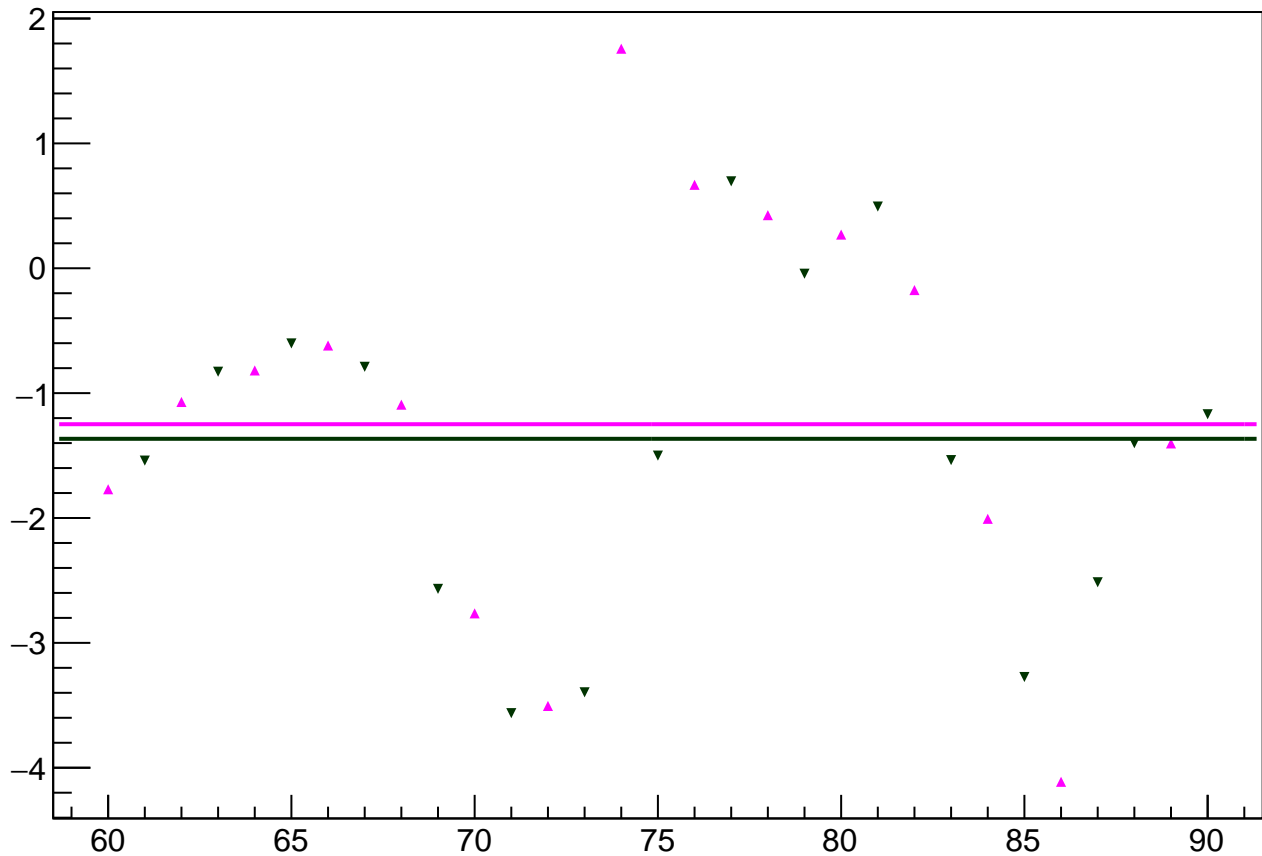
0.097+/-0.000  $\chi^2$ /NDF: 1849464.4/15

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

0.087+/-0.000  $\chi^2$ /NDF: 2524933.0/14

Left In: 0.087+/-0.000  $\chi^2$ /NDF:2524933.0/14

# yield\_bpm1Y\_mean vs slug



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

Left Out: -1.366+/-0.000  $\chi^2$ /NDF:1244751201.4/15

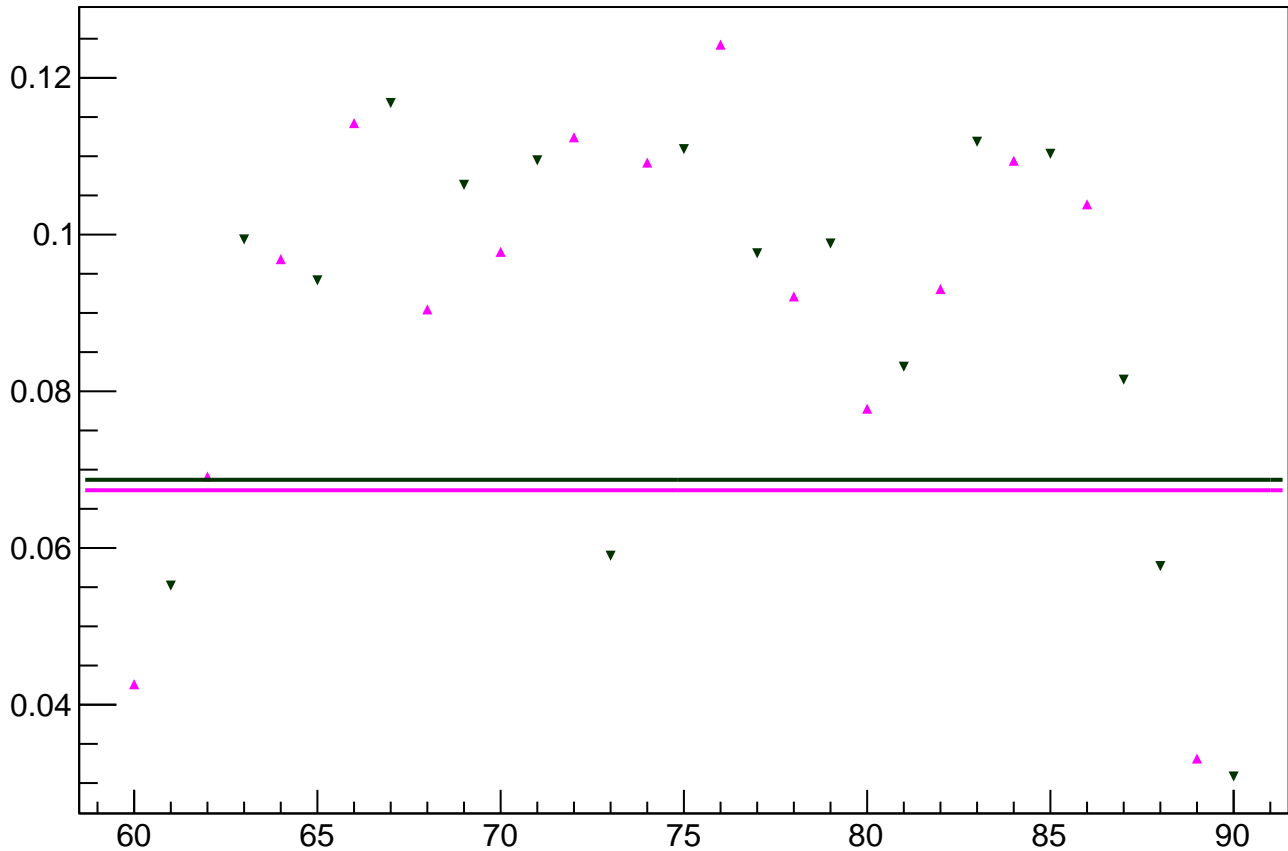
-1.366+/-0.000  $\chi^2$ /NDF: 1244751201.4/15

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

Left In: -1.249+/-0.000  $\chi^2$ /NDF:1553065171.7/14

-1.249+/-0.000  $\chi^2$ /NDF: 1553065171.7/14

# yield\_bpm1Y\_rms vs slug



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

Left Out: 0.069+/-0.000  $\chi^2$ /NDF:2165857.4/15

0.069+/-0.000  $\chi^2$ /NDF: 2165857.4/15

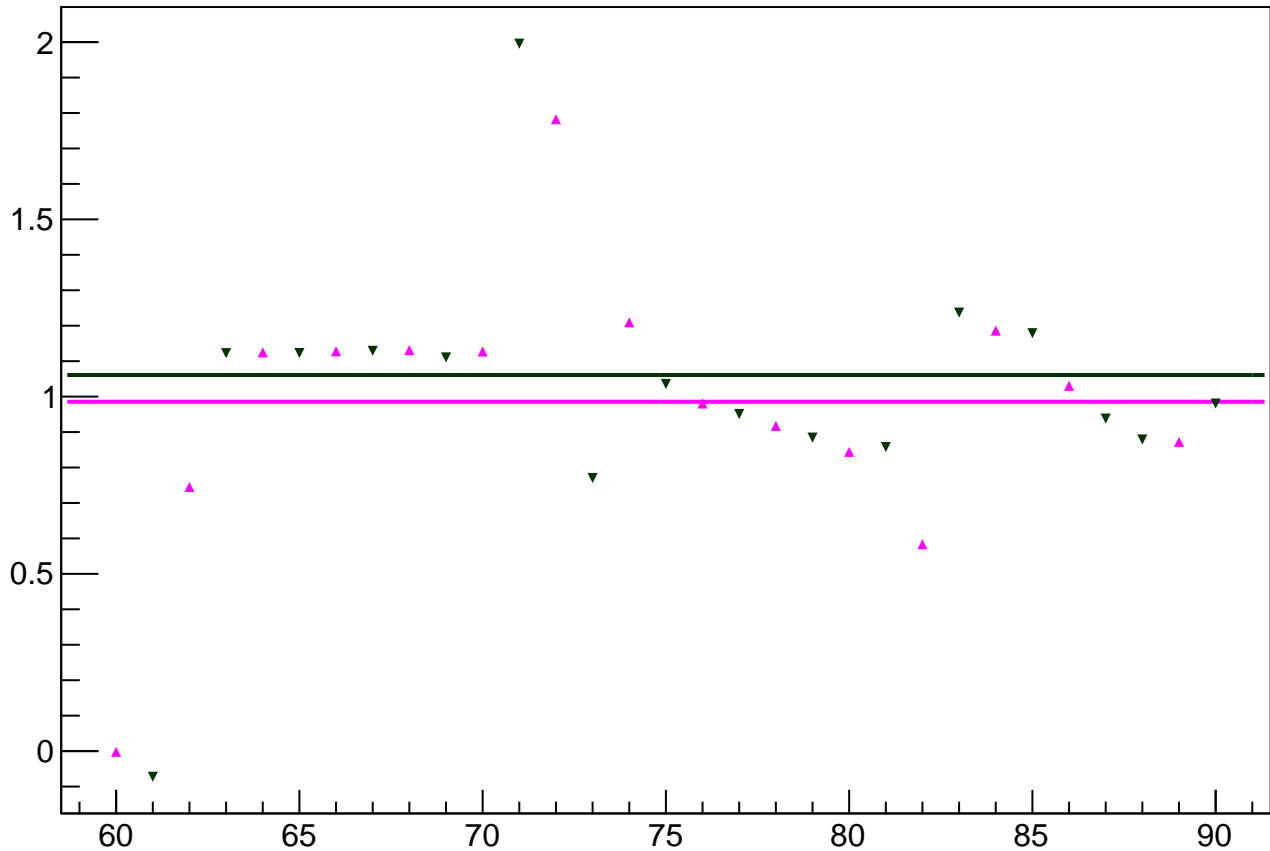
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.067+/-0.000  $\chi^2$ /NDF: 2333609.7/14

Left In: 0.067+/-0.000  $\chi^2$ /NDF:2333609.7/14



# yield\_bpm11X\_mean vs slug



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

1.061+/-0.000  $\chi^2/\text{NDF}$ : 2068559481.5/15

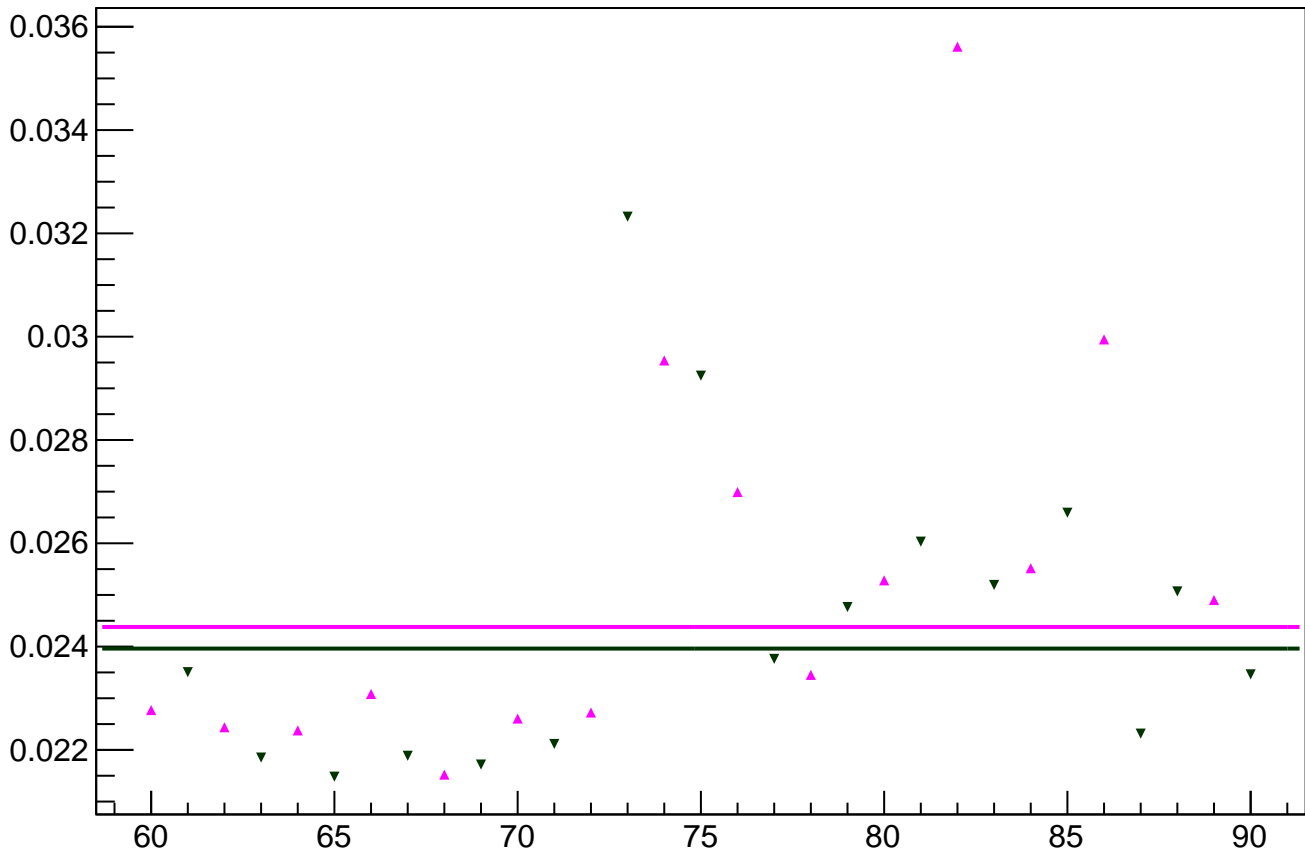
Left Out: 1.061+/-0.000  $\chi^2/\text{NDF}$ : 2068559481.5/15

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

0.985+/-0.000  $\chi^2/\text{NDF}$ : 1726080076.9/14

Left In: 0.985+/-0.000  $\chi^2/\text{NDF}$ : 1726080076.9/14

# yield\_bpm11X\_rms vs slug



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

Left Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ :169904.5/15

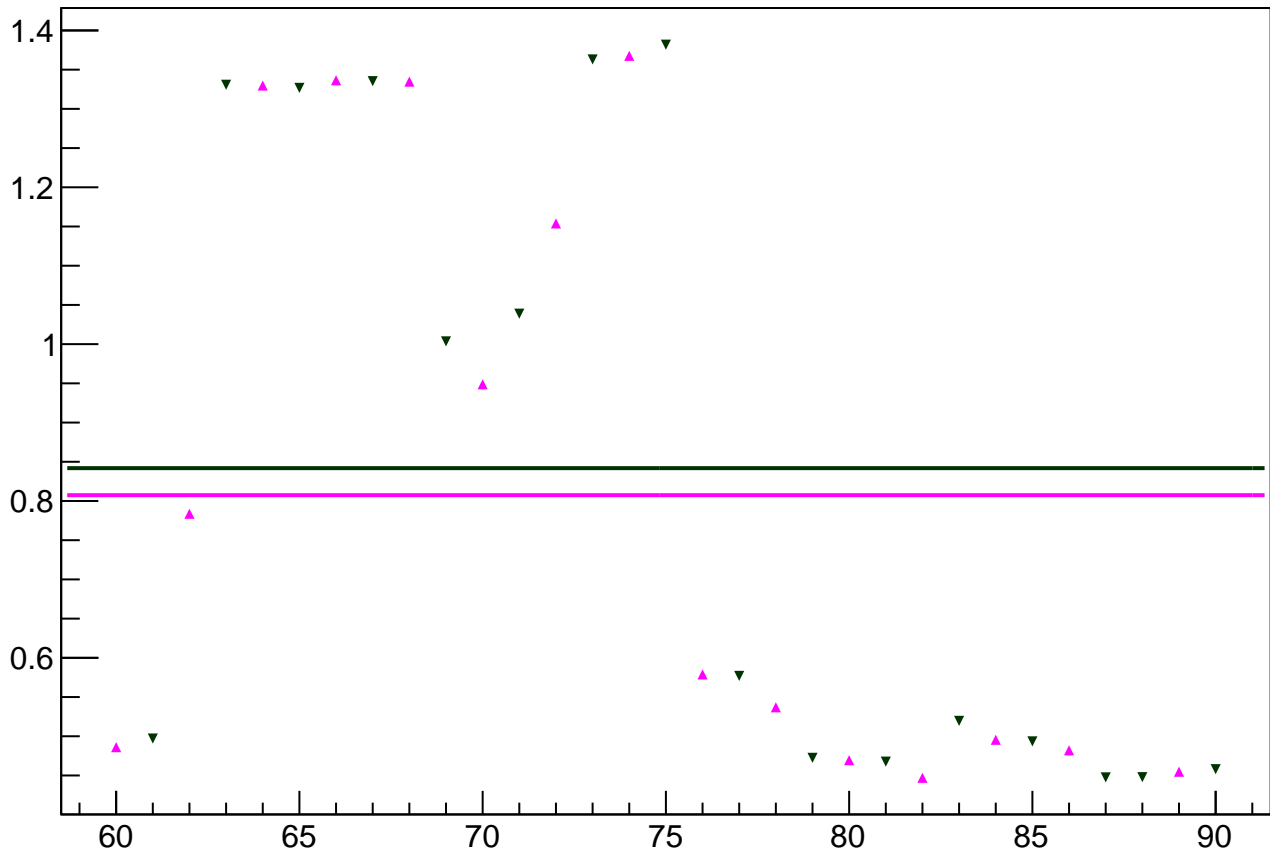
0.024+/-0.000  $\chi^2/\text{NDF}$ : 169904.5/15

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

0.024+/-0.000  $\chi^2/\text{NDF}$ : 214900.2/14

Left In: 0.024+/-0.000  $\chi^2/\text{NDF}$ :214900.2/14

# yield\_bpm11Y\_mean vs slug



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

Left Out: 0.842+/-0.000  $\chi^2/\text{NDF}$ : 110841541966.1/15

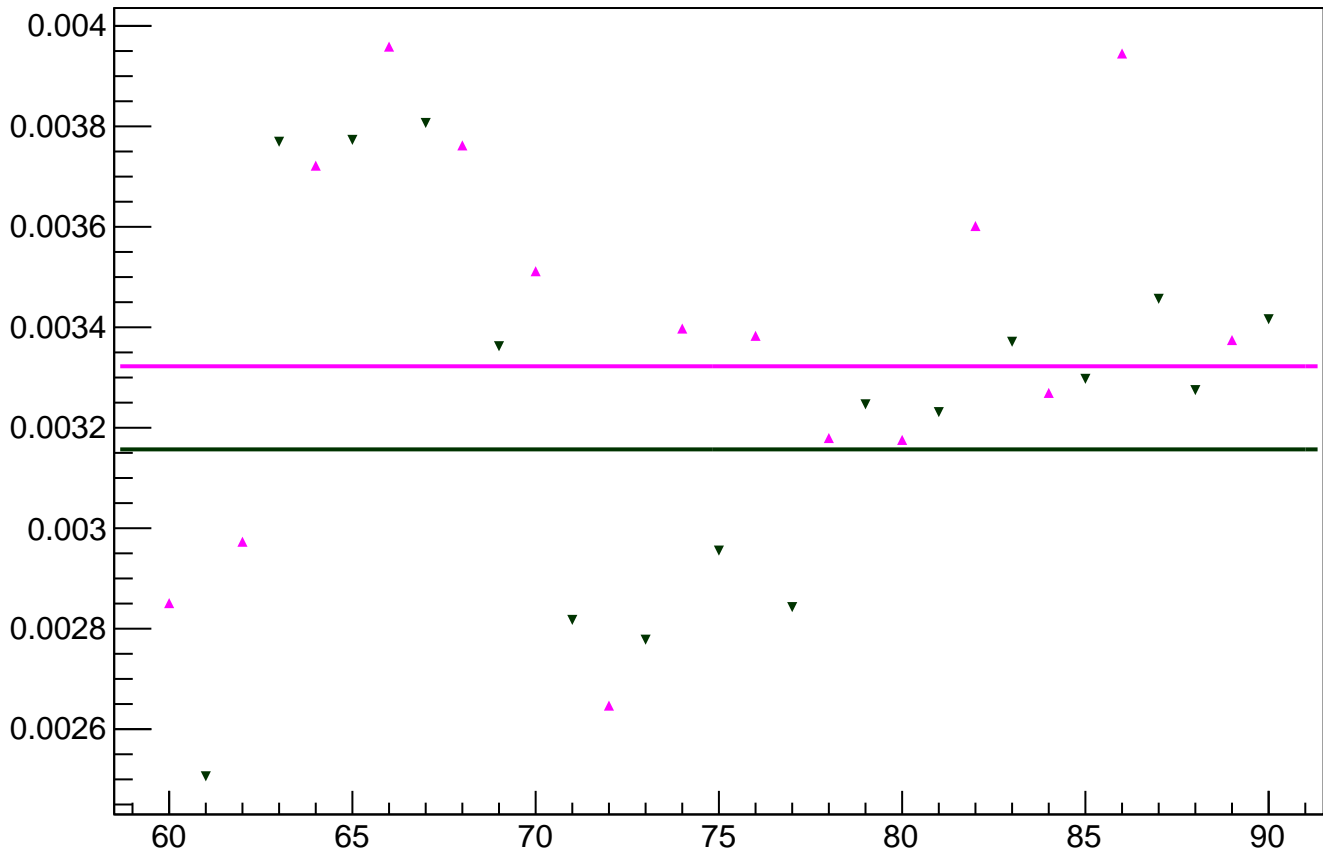
0.842+/-0.000  $\chi^2/\text{NDF}$ : 110841541966.1/15

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

0.807+/-0.000  $\chi^2/\text{NDF}$ : 84075127186.3/14

Left In: 0.807+/-0.000  $\chi^2/\text{NDF}$ : 84075127186.3/14

# yield\_bpm11Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2$ /NDF:202707.8/15

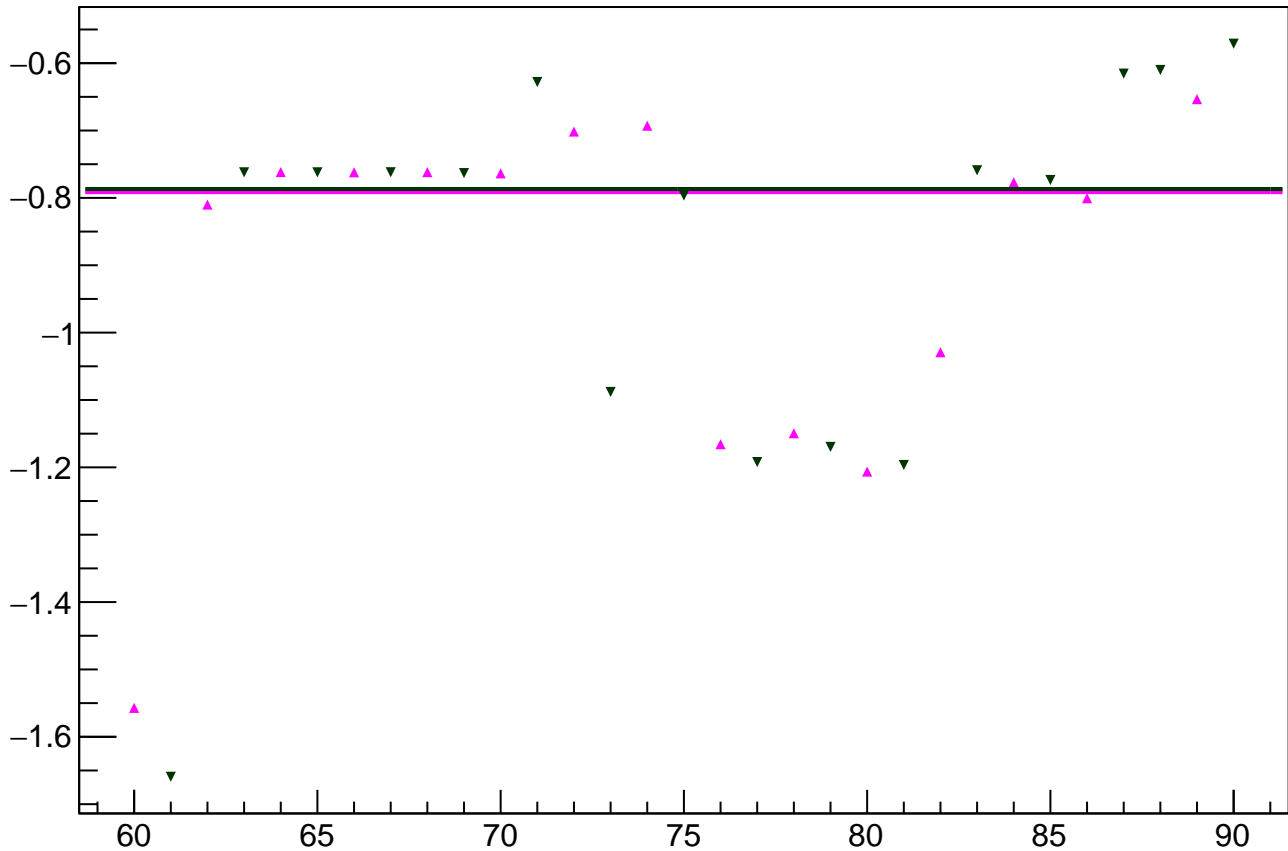
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.003+/-0.000  $\chi^2$ /NDF:180104.0/14

0.003+/-0.000  $\chi^2$ /NDF: 202707.8/15

0.003+/-0.000  $\chi^2$ /NDF: 180104.0/14

# yield\_bpm12X\_mean vs slug



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

Left Out: -0.787+/-0.000  $\chi^2$ /NDF: 927401119.2/15

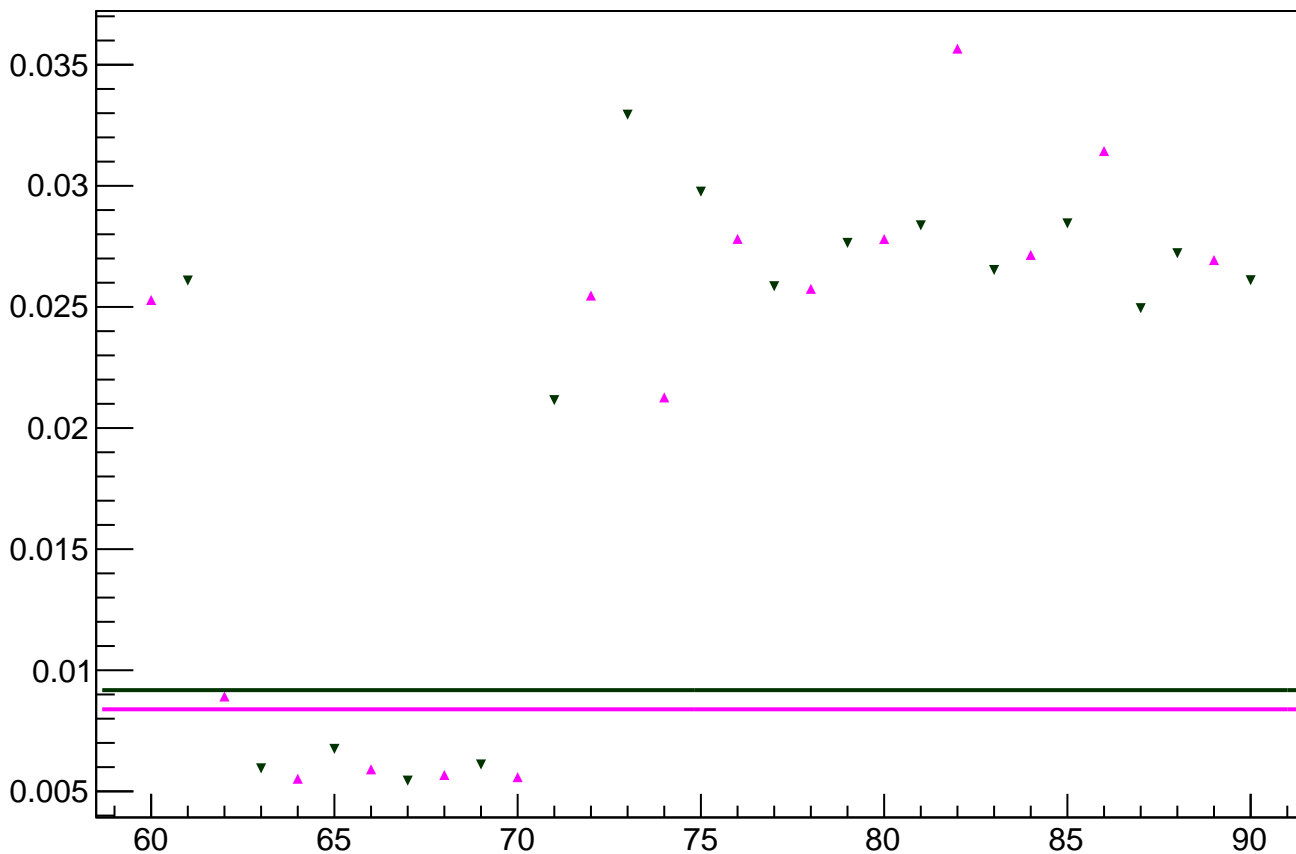
-0.787+/-0.000  $\chi^2$ /NDF: 927401119.2/15

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

-0.791+/-0.000  $\chi^2$ /NDF: 872009482.2/14

Left In: -0.791+/-0.000  $\chi^2$ /NDF: 872009482.2/14

# yield\_bpm12X\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 5557940.2/15

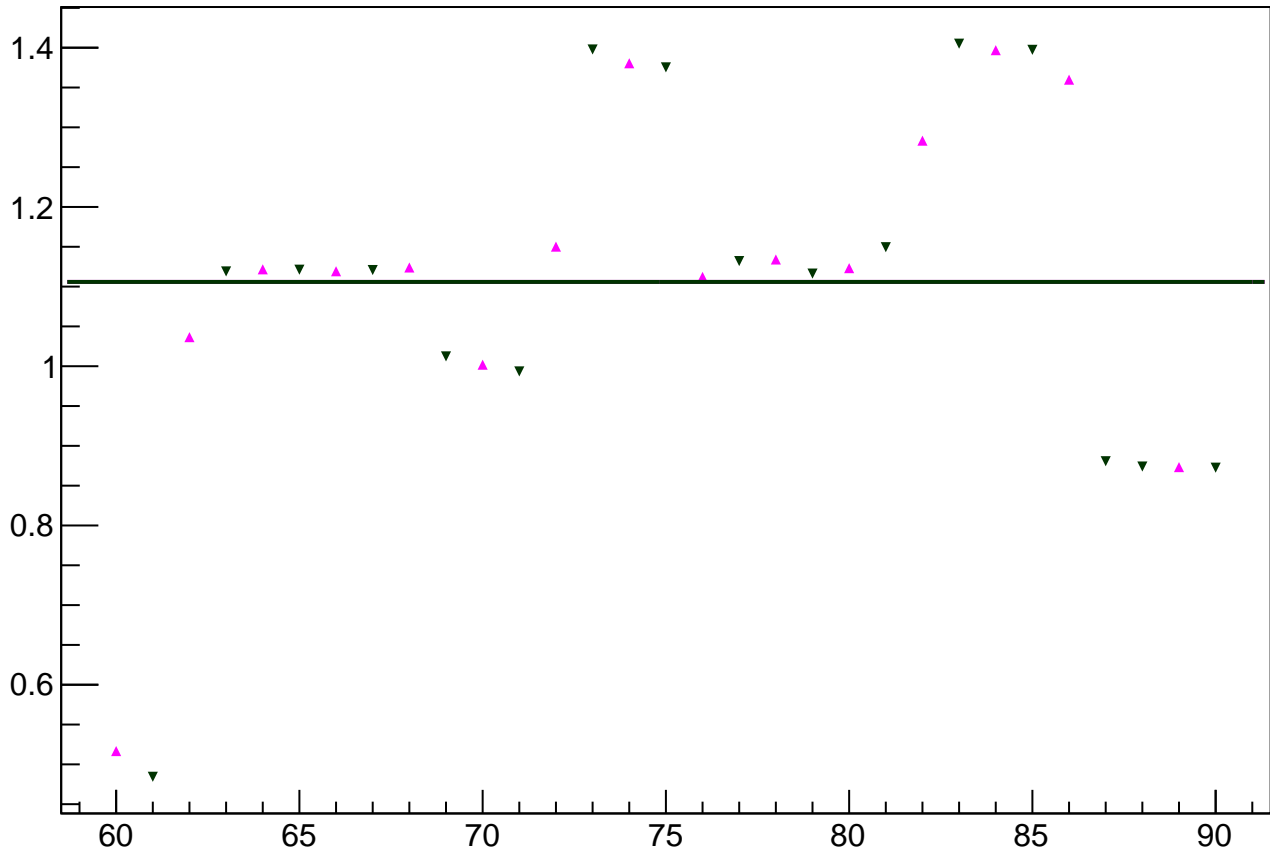
0.009+/-0.000  $\chi^2/\text{NDF}$ : 5557940.2/15

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 5326507.9/14

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5326507.9/14

# yield\_bpm12Y\_mean vs slug



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

Left Out: 1.106+/-0.000  $\chi^2$ /NDF:2031944785.2/15

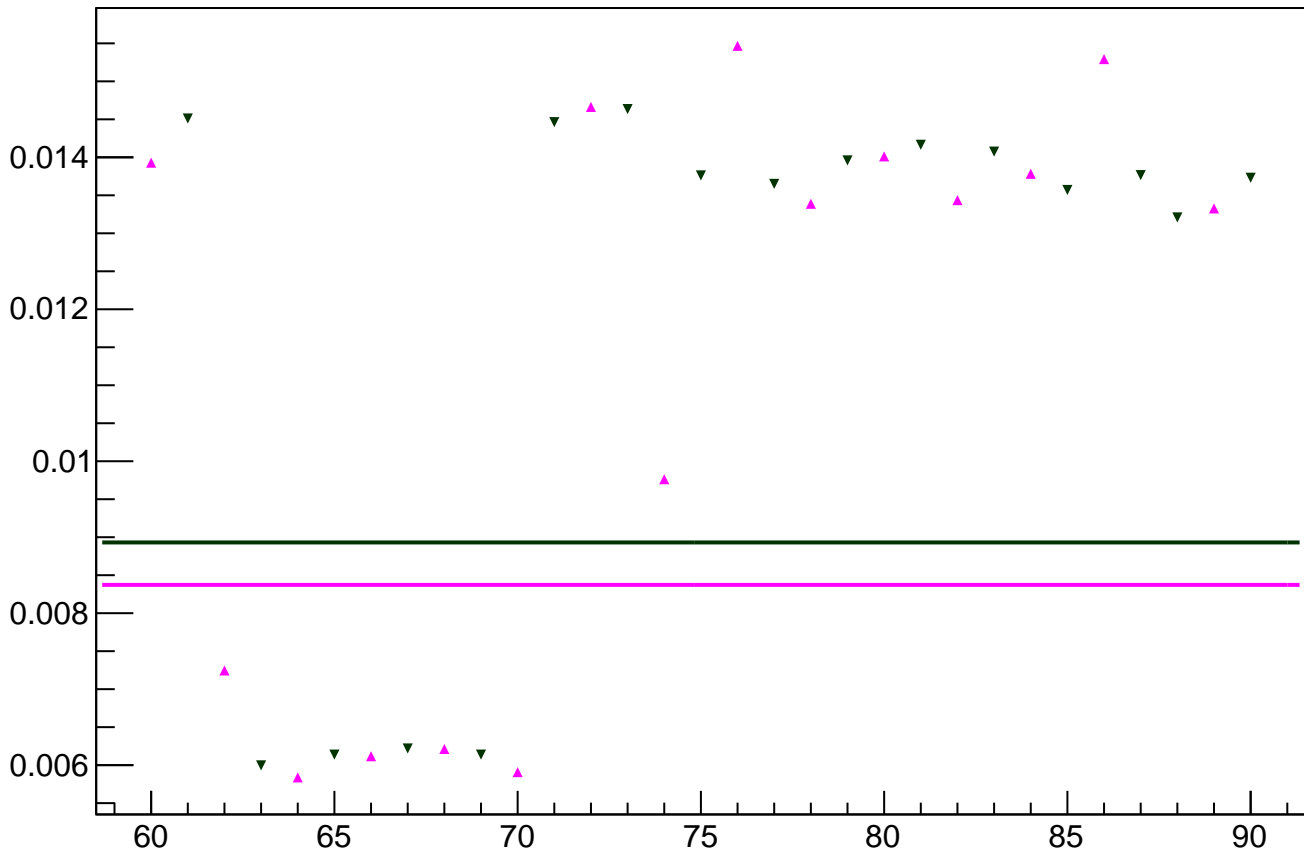
1.106+/-0.000  $\chi^2$ /NDF: 2031944785.2/15

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

1.106+/-0.000  $\chi^2$ /NDF: 2057853653.7/14

Left In: 1.106+/-0.000  $\chi^2$ /NDF:2057853653.7/14

# yield\_bpm12Y\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 2159637.5/15

0.009+/-0.000  $\chi^2/\text{NDF}$ : 2159637.5/15

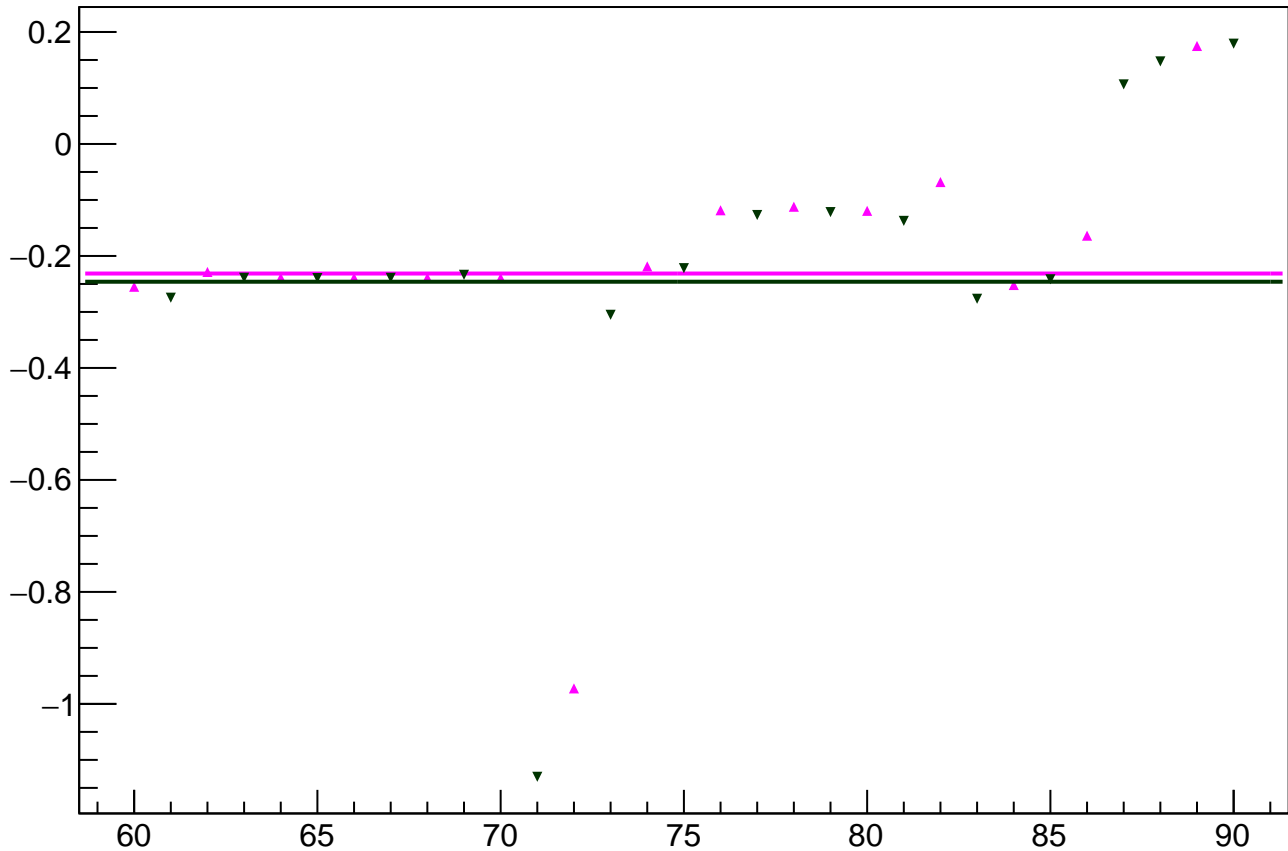
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.008+/-0.000  $\chi^2/\text{NDF}$ : 2120065.9/14

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 2120065.9/14



# yield\_bpm16X\_mean vs slug



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

Left Out: -0.246+/-0.000  $\chi^2$ /NDF:7958630353.6/15

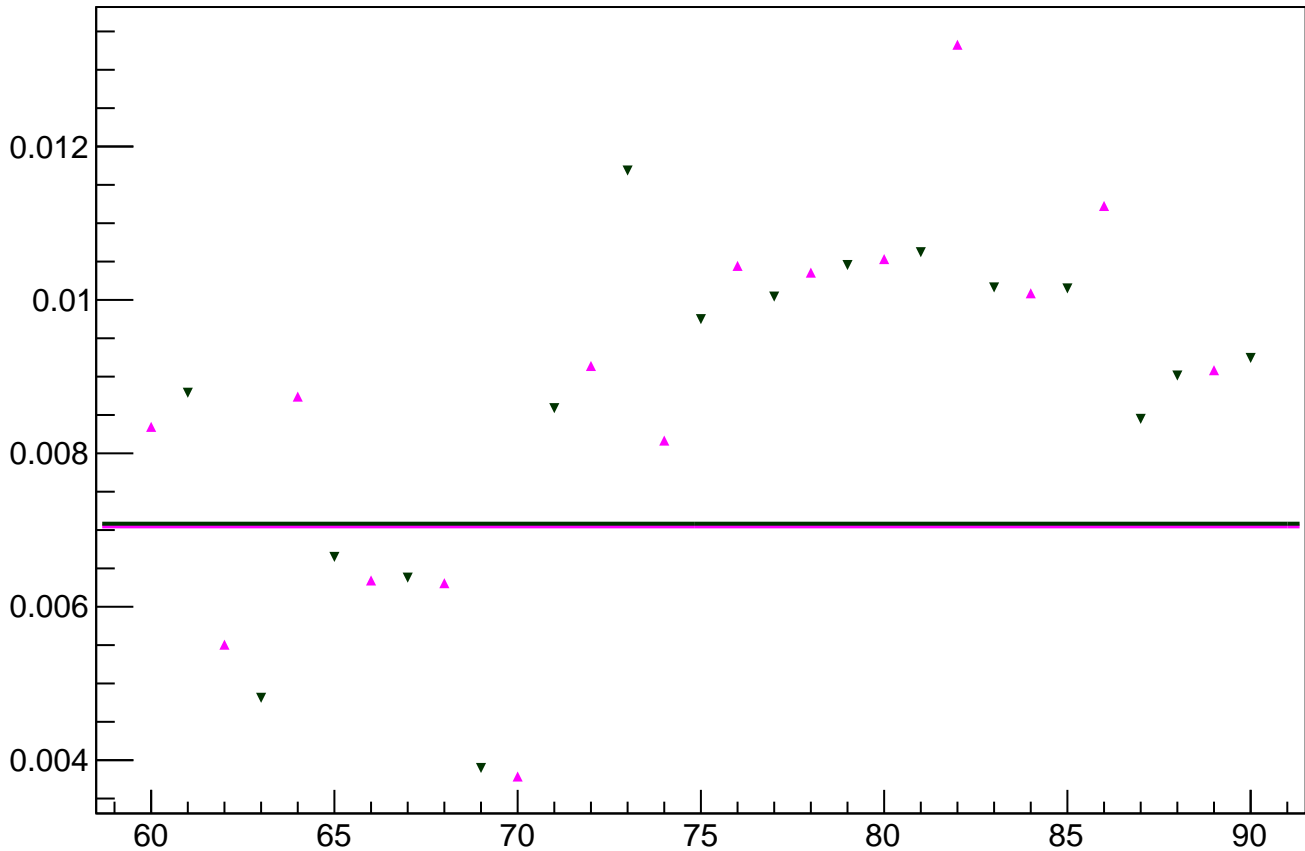
-0.246+/-0.000  $\chi^2$ /NDF: 7958630353.6/15

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

Left In: -0.231+/-0.000  $\chi^2$ /NDF:3989165754.9/14

-0.231+/-0.000  $\chi^2$ /NDF: 3989165754.9/14

# yield\_bpm16X\_rms vs slug



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

Left Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ :1681153.5/15

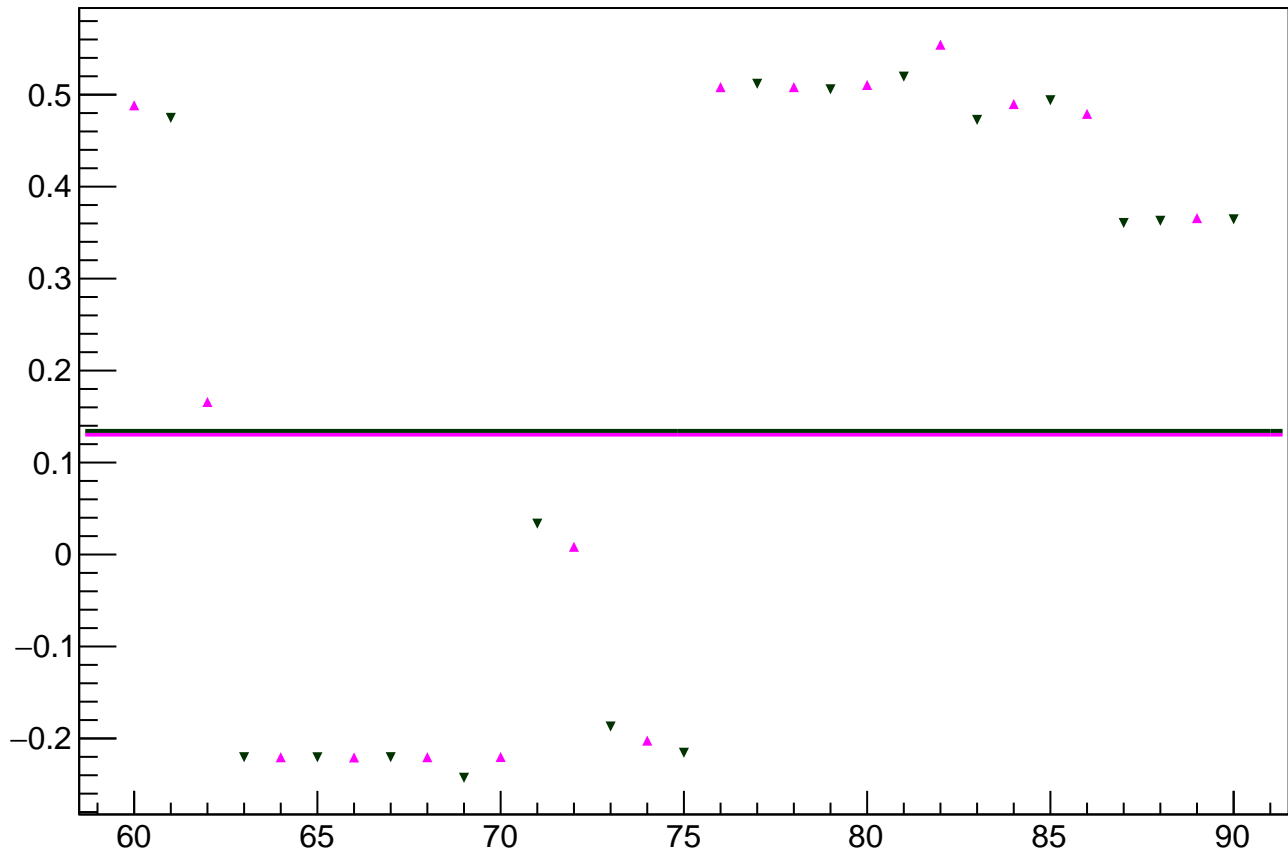
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.007+/-0.000  $\chi^2/\text{NDF}$ :1741152.0/14

0.007+/-0.000  $\chi^2/\text{NDF}$ : 1681153.5/15

0.007+/-0.000  $\chi^2/\text{NDF}$ : 1741152.0/14

# yield\_bpm16Y\_mean vs slug



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

Left Out: 0.134+/-0.000  $\chi^2$ /NDF:94803541272.4/15

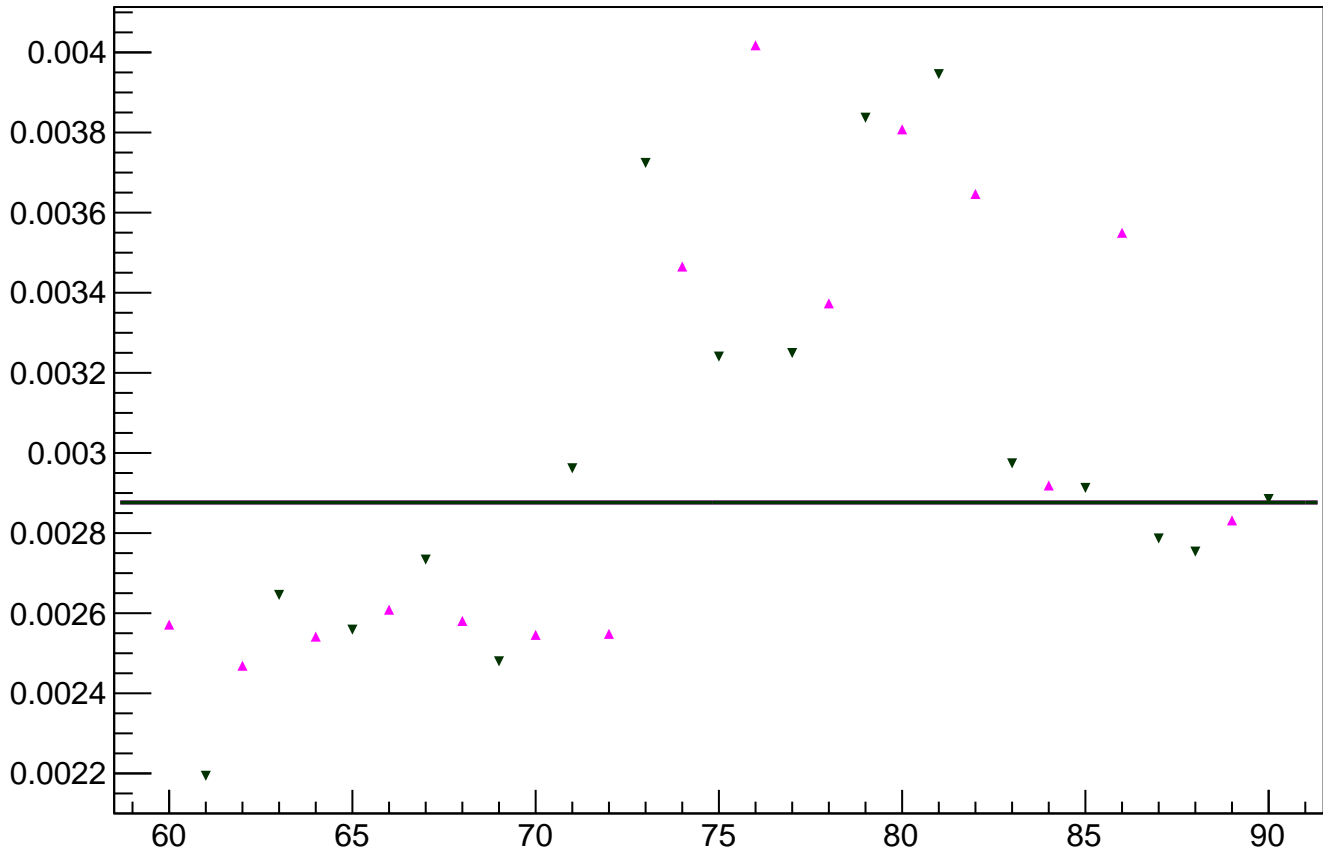
0.134+/-0.000  $\chi^2$ /NDF: 94803541272.4/15

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

0.130+/-0.000  $\chi^2$ /NDF: 90368072048.7/14

Left In: 0.130+/-0.000  $\chi^2$ /NDF:90368072048.7/14

# yield\_bpm16Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ :347137.6/15

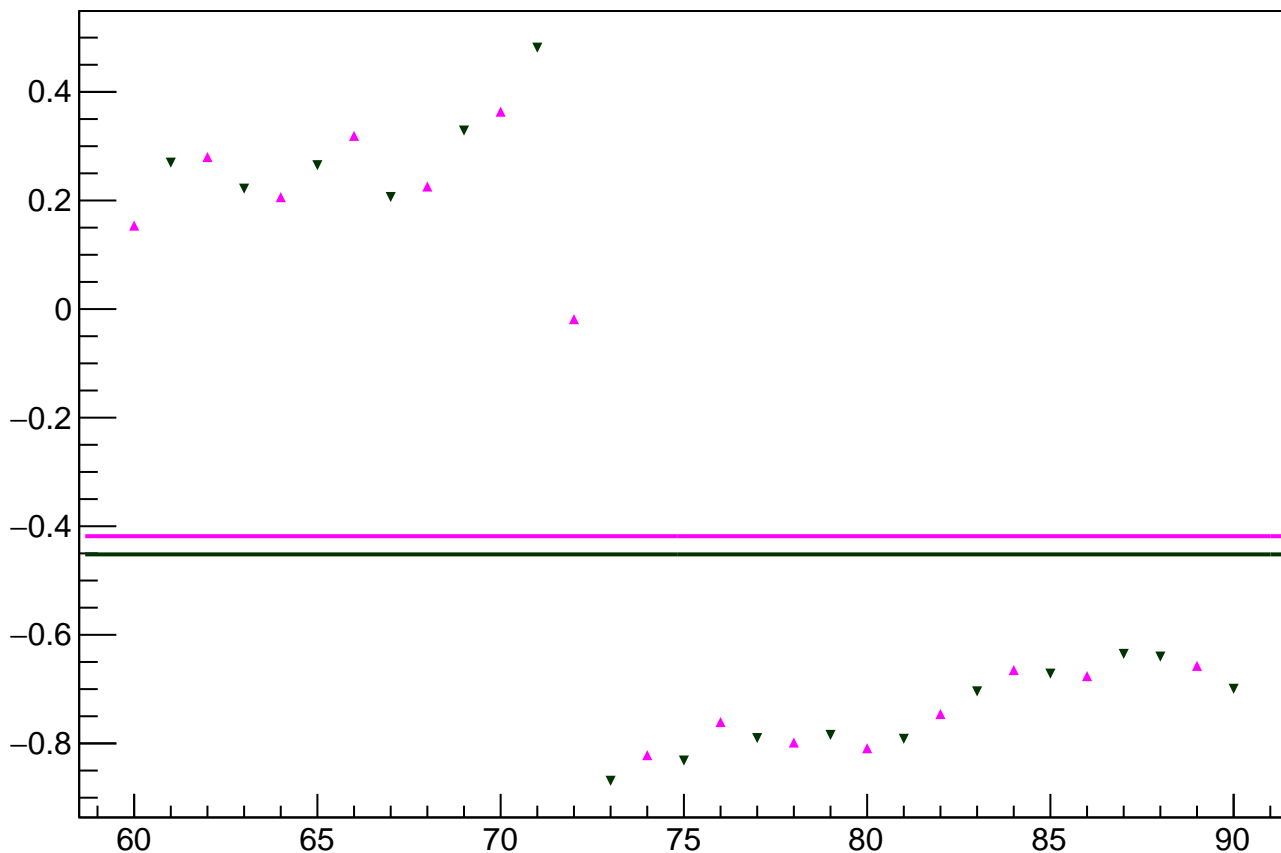
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.003+/-0.000  $\chi^2/\text{NDF}$ :382284.6/14

0.003+/-0.000  $\chi^2/\text{NDF}$ : 347137.6/15

0.003+/-0.000  $\chi^2/\text{NDF}$ : 382284.6/14

# yield\_bpm0l01X\_mean vs slug



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

Left Out: -0.452+/-0.000  $\chi^2$ /NDF:28243828373.4/15

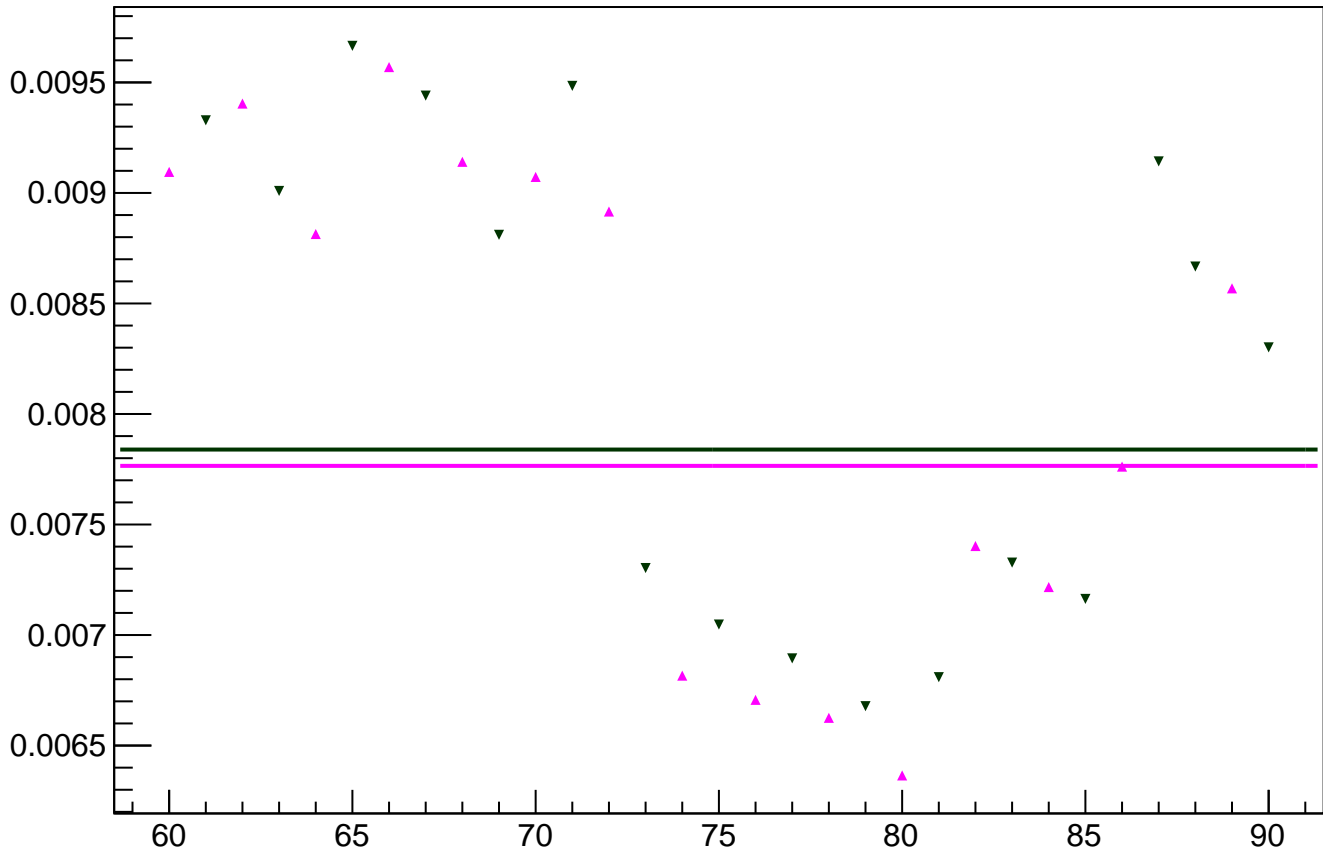
-0.452+/-0.000  $\chi^2$ /NDF: 28243828373.4/15

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

Left In: -0.418+/-0.000  $\chi^2$ /NDF:26869842039.6/14

-0.418+/-0.000  $\chi^2$ /NDF: 26869842039.6/14

# yield\_bpm0l01X\_rms vs slug



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

Left Out: 0.008+/-0.000  $\chi^2$ /NDF:268895.9/15

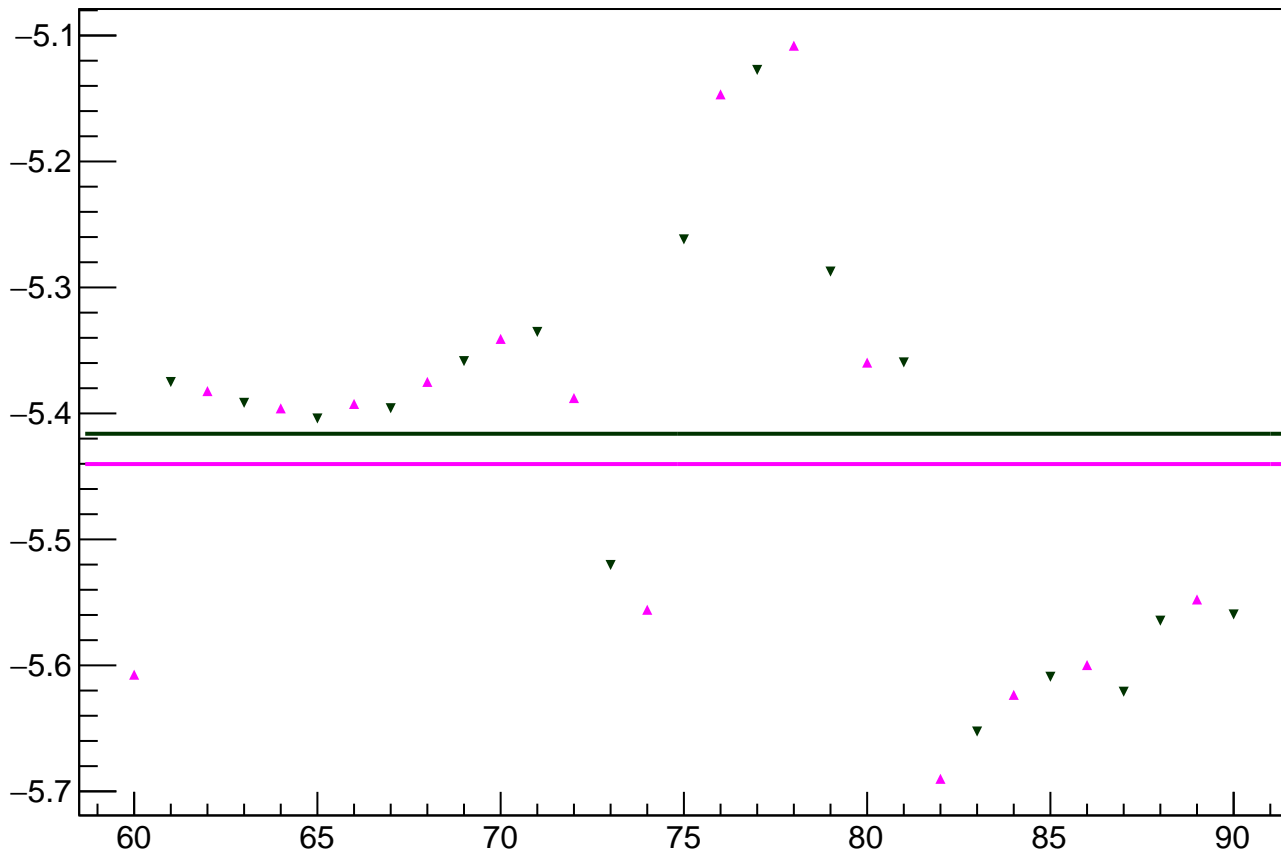
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.008+/-0.000  $\chi^2$ /NDF:303455.5/14

0.008+/-0.000  $\chi^2$ /NDF: 268895.9/15

0.008+/-0.000  $\chi^2$ /NDF: 303455.5/14

# yield\_bpm0l01Y\_mean vs slug



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

Left Out: -5.416+/-0.000  $\chi^2$ /NDF:3106412432.9/15

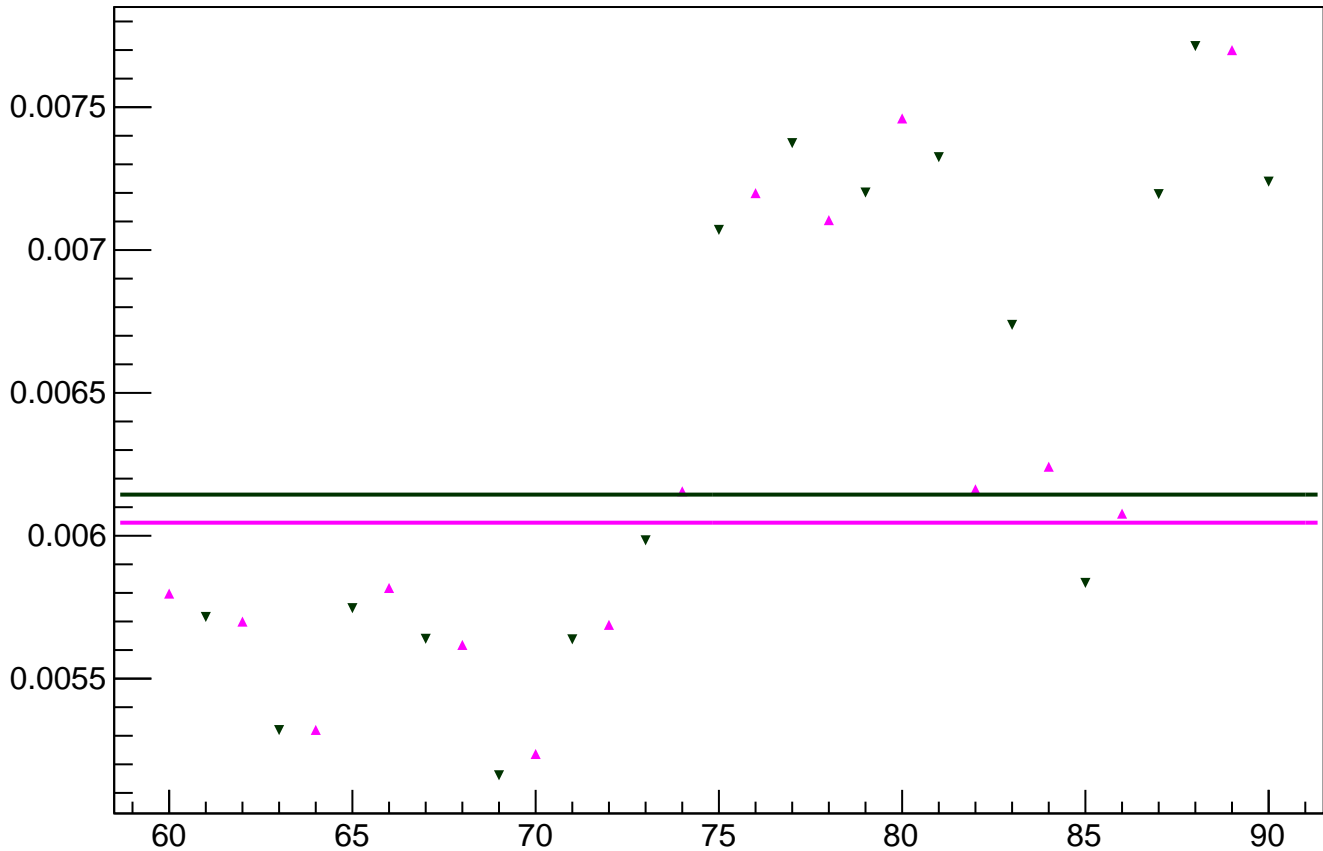
-5.416+/-0.000  $\chi^2$ /NDF: 3106412432.9/15

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

Left In: -5.440+/-0.000  $\chi^2$ /NDF:4678061111.6/14

-5.440+/-0.000  $\chi^2$ /NDF: 4678061111.6/14

# yield\_bpm0l01Y\_rms vs slug



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

Left Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ :243885.4/15

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

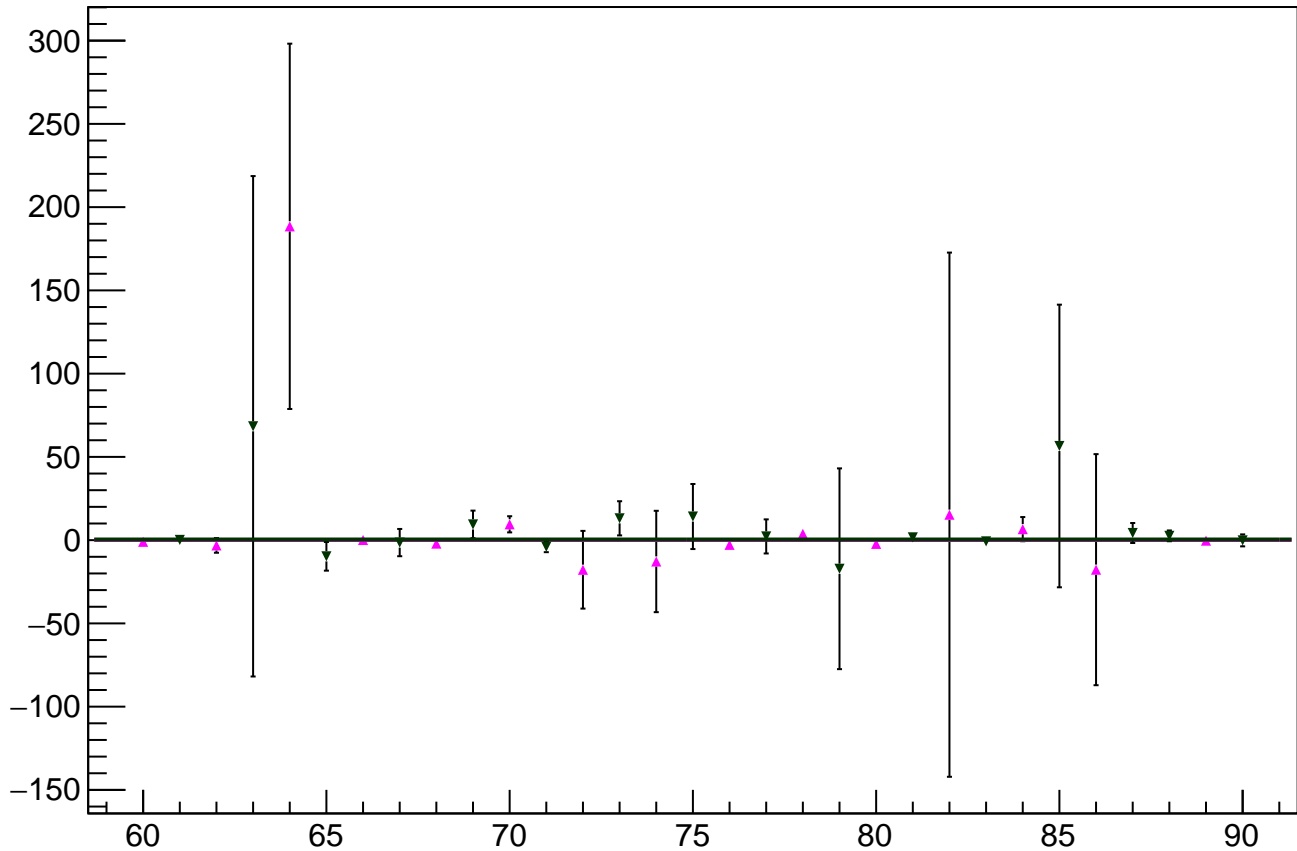
Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :186027.9/14

0.006+/-0.000  $\chi^2/\text{NDF}$ : 243885.4/15

0.006+/-0.000  $\chi^2/\text{NDF}$ : 186027.9/14



# diff\_cav4bX\_mean vs slug



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

Left Out: 0.376+/-1.011  $\chi^2/\text{NDF}$ : 8.7/15

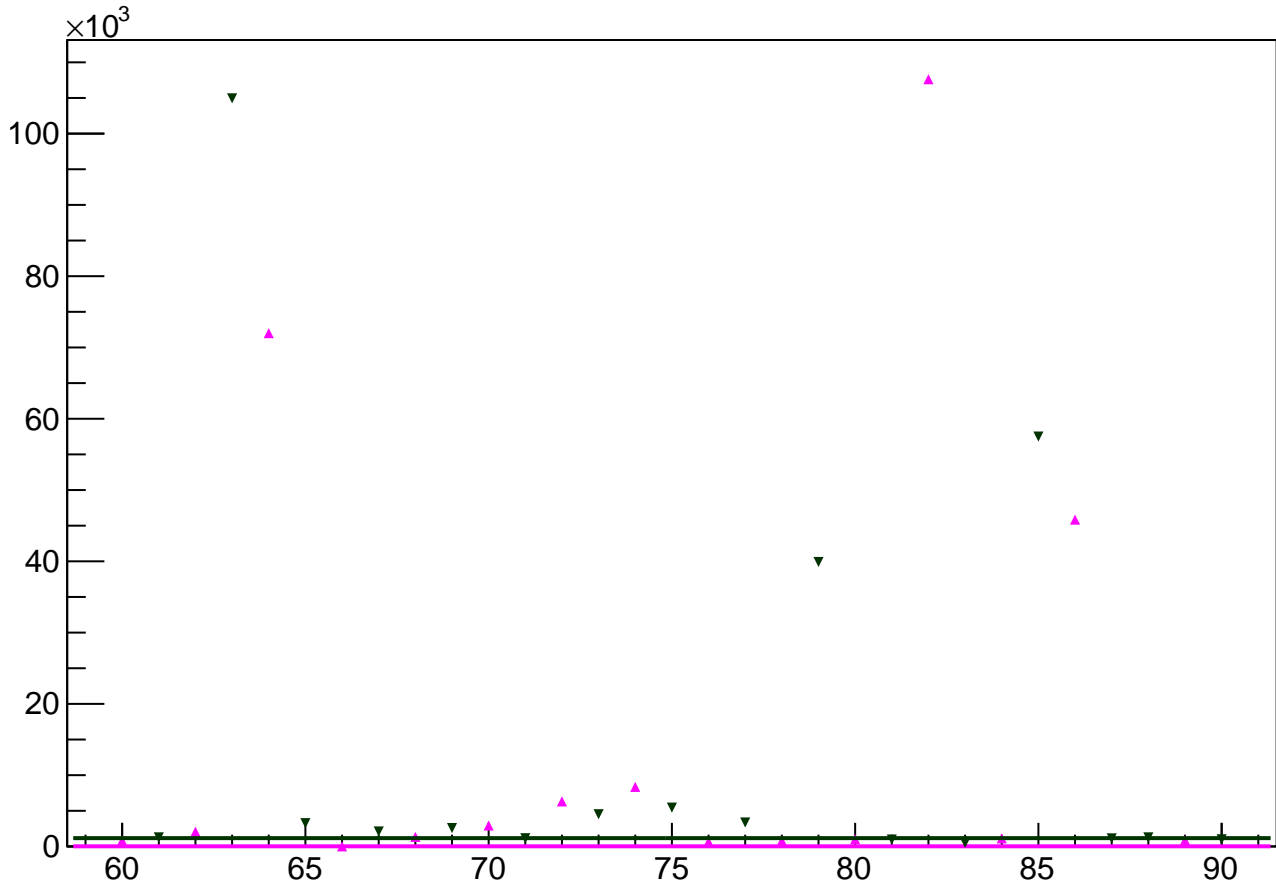
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.106+/-0.081  $\chi^2/\text{NDF}$ : 14.4/14

0.376+/-1.011  $\chi^2/\text{NDF}$ : 8.7/15

0.106+/-0.081  $\chi^2/\text{NDF}$ : 14.4/14

# diff\_cav4bX\_rms vs slug



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

Left Out: 1167.038+/-0.715  $\chi^2$ /NDF:3465804.3/15

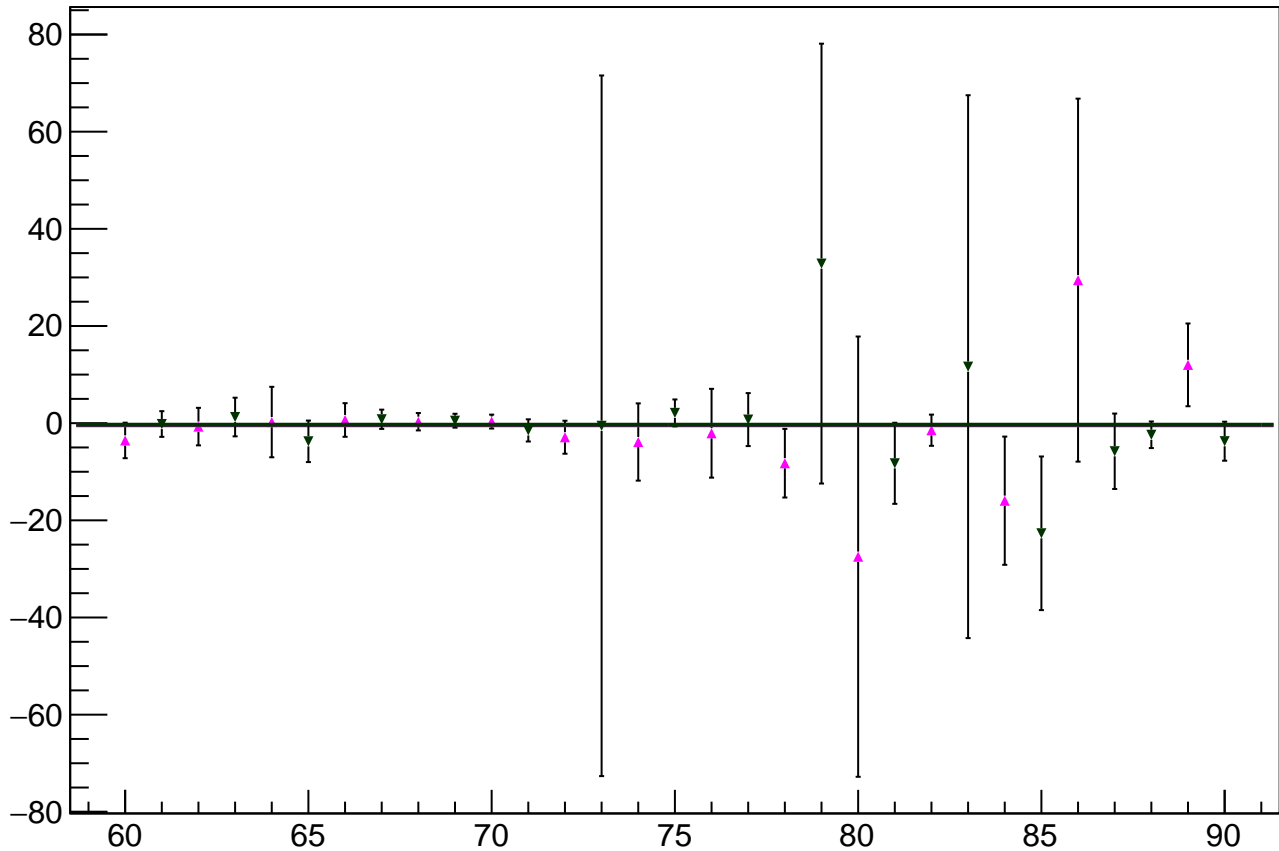
1167.038+/-0.715  $\chi^2$ /NDF: 3465804.3/15

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

19.604+/-0.057  $\chi^2$ /NDF: 5966774.2/14

Left In: 19.604+/-0.057  $\chi^2$ /NDF:5966774.2/14

# diff\_cav4bY\_mean vs slug



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

Left Out: -0.325+/-0.792  $\chi^2$ /NDF:7.8/15

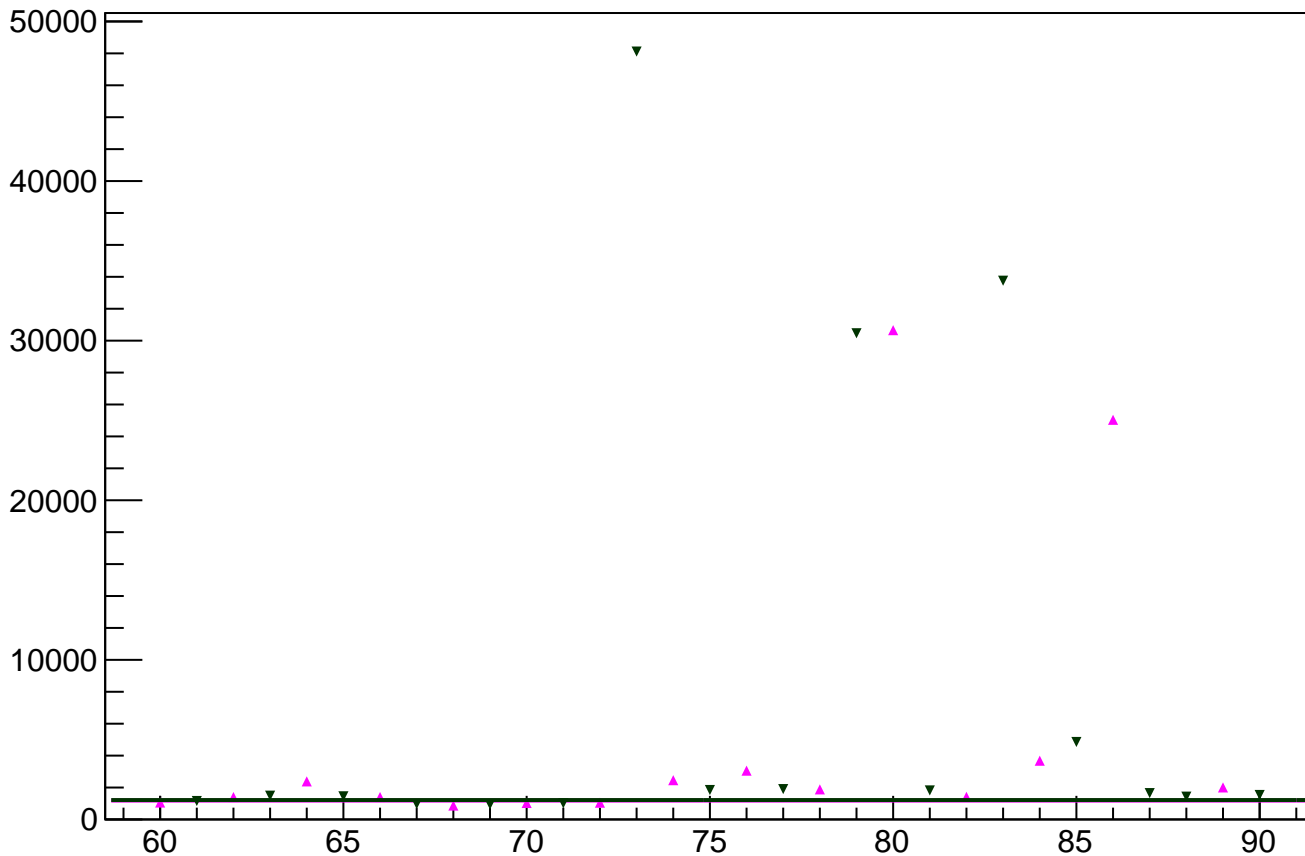
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.433+/-0.878  $\chi^2$ /NDF:7.9/14

-0.325+/-0.792  $\chi^2$ /NDF: 7.8/15

-0.433+/-0.878  $\chi^2$ /NDF: 7.9/14

# diff\_cav4bY\_rms vs slug



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

Left Out: 1214.805+/-0.560  $\chi^2/\text{NDF}$ : 2783074.1/15

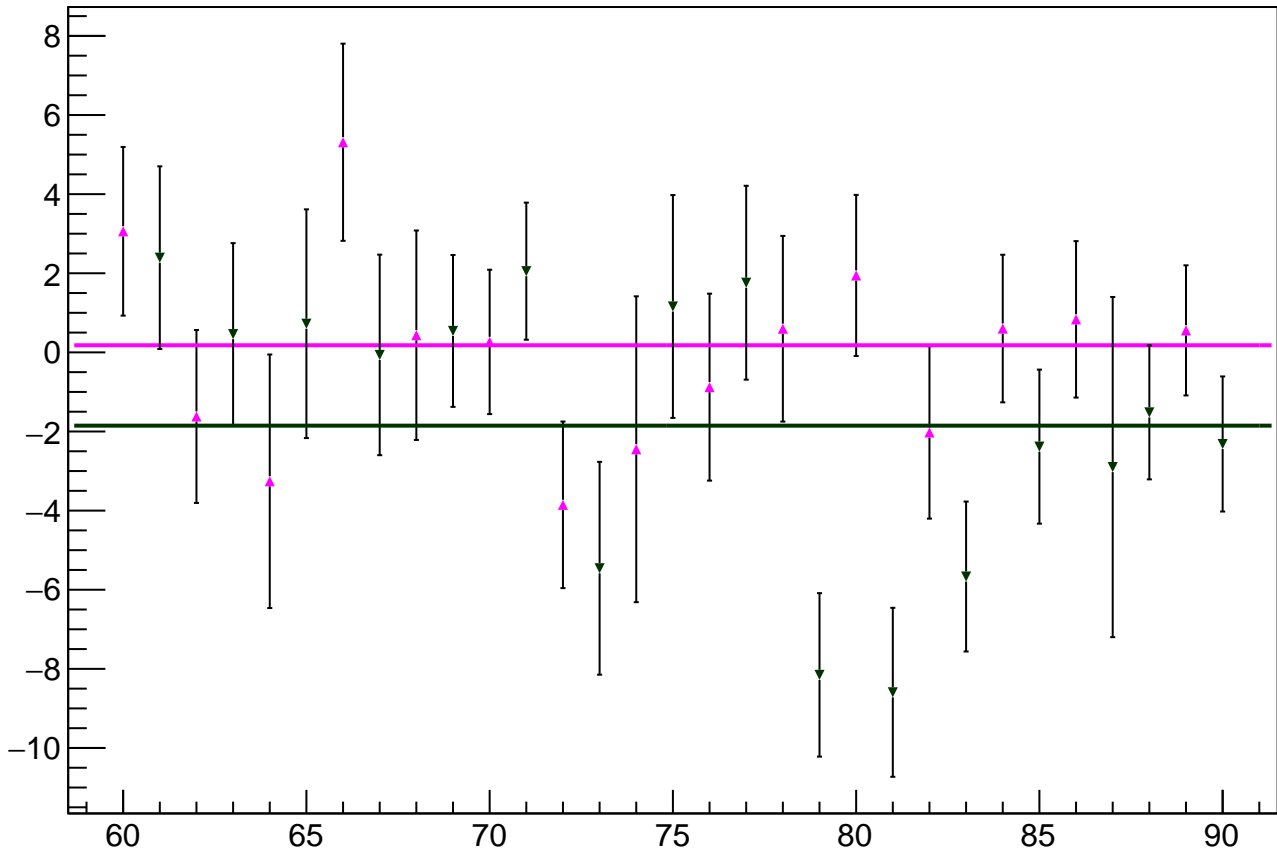
1214.805+/-0.560  $\chi^2/\text{NDF}$ : 2783074.1/15

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

1184.214+/-0.621  $\chi^2/\text{NDF}$ : 2077161.3/14

Left In: 1184.214+/-0.621  $\chi^2/\text{NDF}$ : 2077161.3/14

# diff\_cav4cX\_mean vs slug



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

Left Out: -1.852 $\pm$ 0.540  $\chi^2$ /NDF: 41.0/15

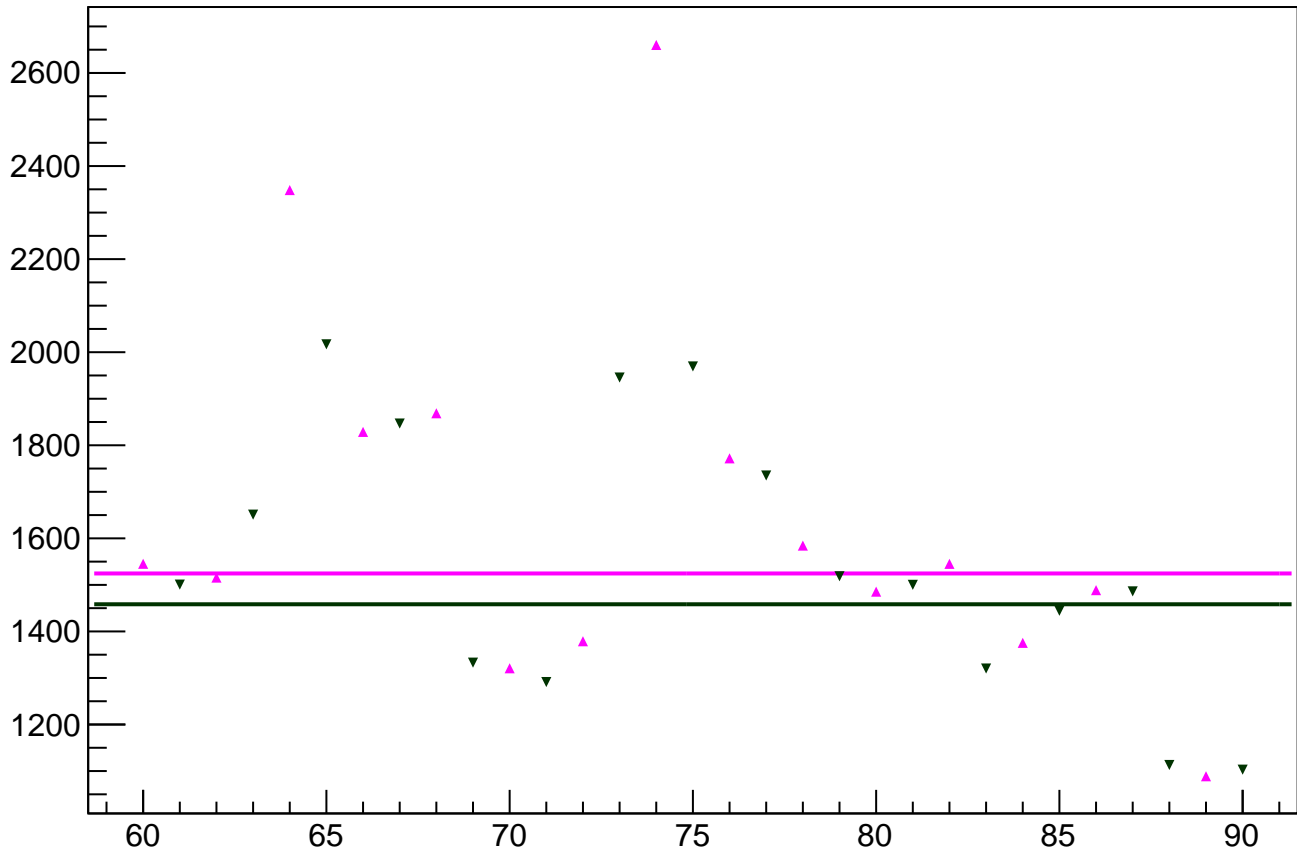
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.180 $\pm$ 0.564  $\chi^2$ /NDF: 14.3/14

-1.852 $\pm$ 0.540  $\chi^2$ /NDF: 41.0/15

0.180 $\pm$ 0.564  $\chi^2$ /NDF: 14.3/14

# diff\_cav4cX\_rms vs slug



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

Left Out: 1458.360+/-0.382  $\chi^2/\text{NDF}$ : 503547.1/15

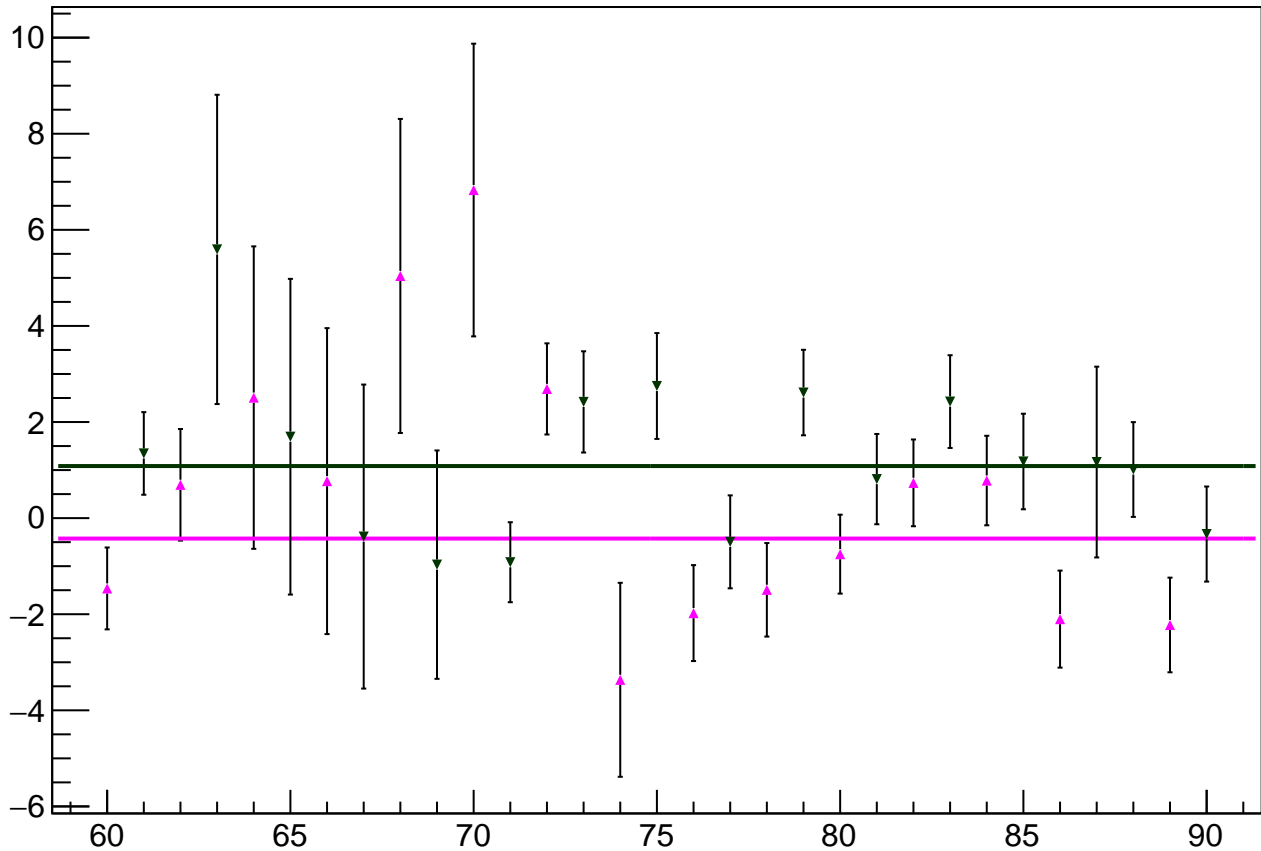
1458.360+/-0.382  $\chi^2/\text{NDF}$ : 503547.1/15

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

1524.567+/-0.399  $\chi^2/\text{NDF}$ : 581148.7/14

Left In: 1524.567+/-0.399  $\chi^2/\text{NDF}$ : 581148.7/14

# diff\_cav4cY\_mean vs slug



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

1.084+/-0.279  $\chi^2/\text{NDF}$ : 22.4/15

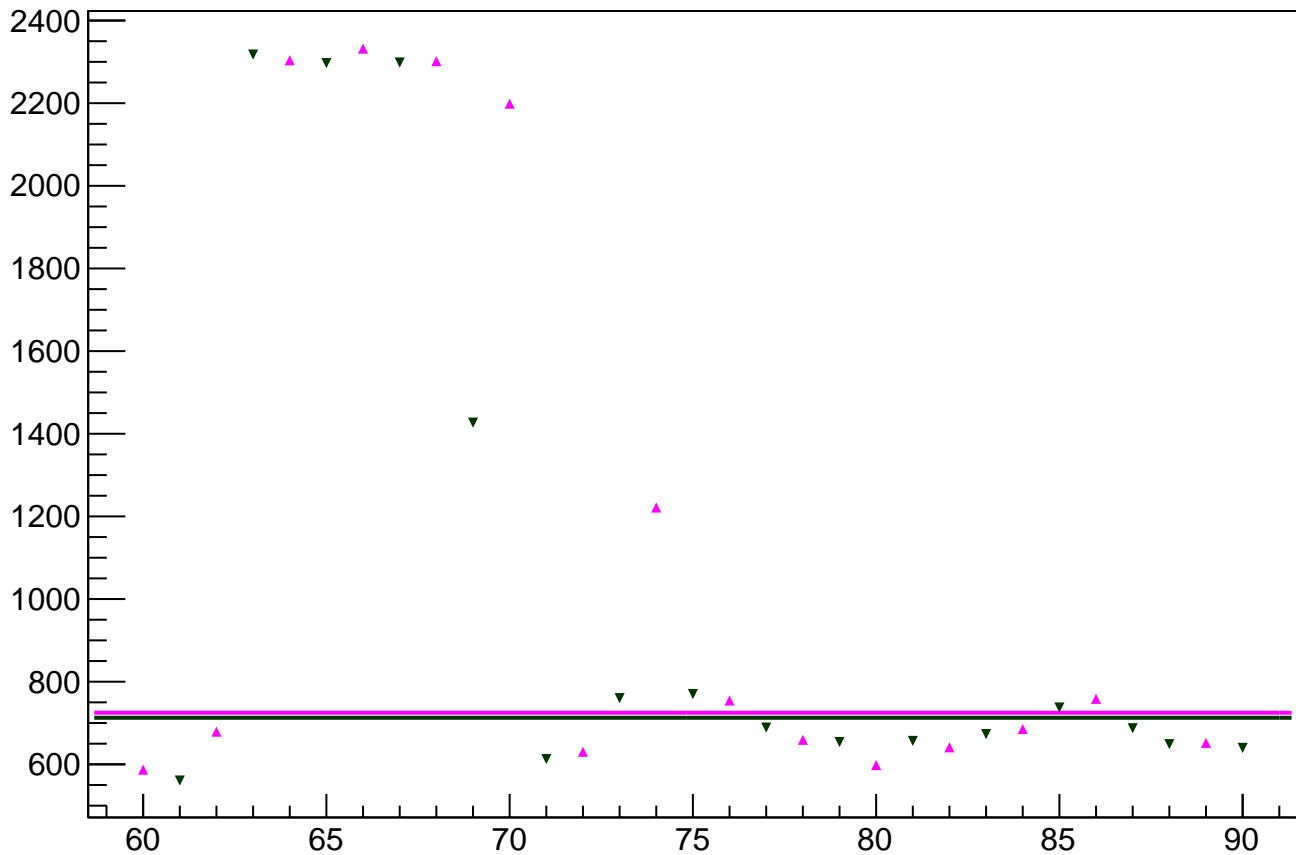
Left Out: 1.084+/-0.279  $\chi^2/\text{NDF}$ : 22.4/15

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

-0.425+/-0.291  $\chi^2/\text{NDF}$ : 38.0/14

Left In: -0.425+/-0.291  $\chi^2/\text{NDF}$ : 38.0/14

# diff\_cav4cY\_rms vs slug



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

712.699+/-0.197  $\chi^2$ /NDF: 1787471.0/15

Left Out: 712.699+/-0.197  $\chi^2$ /NDF: 1787471.0/15

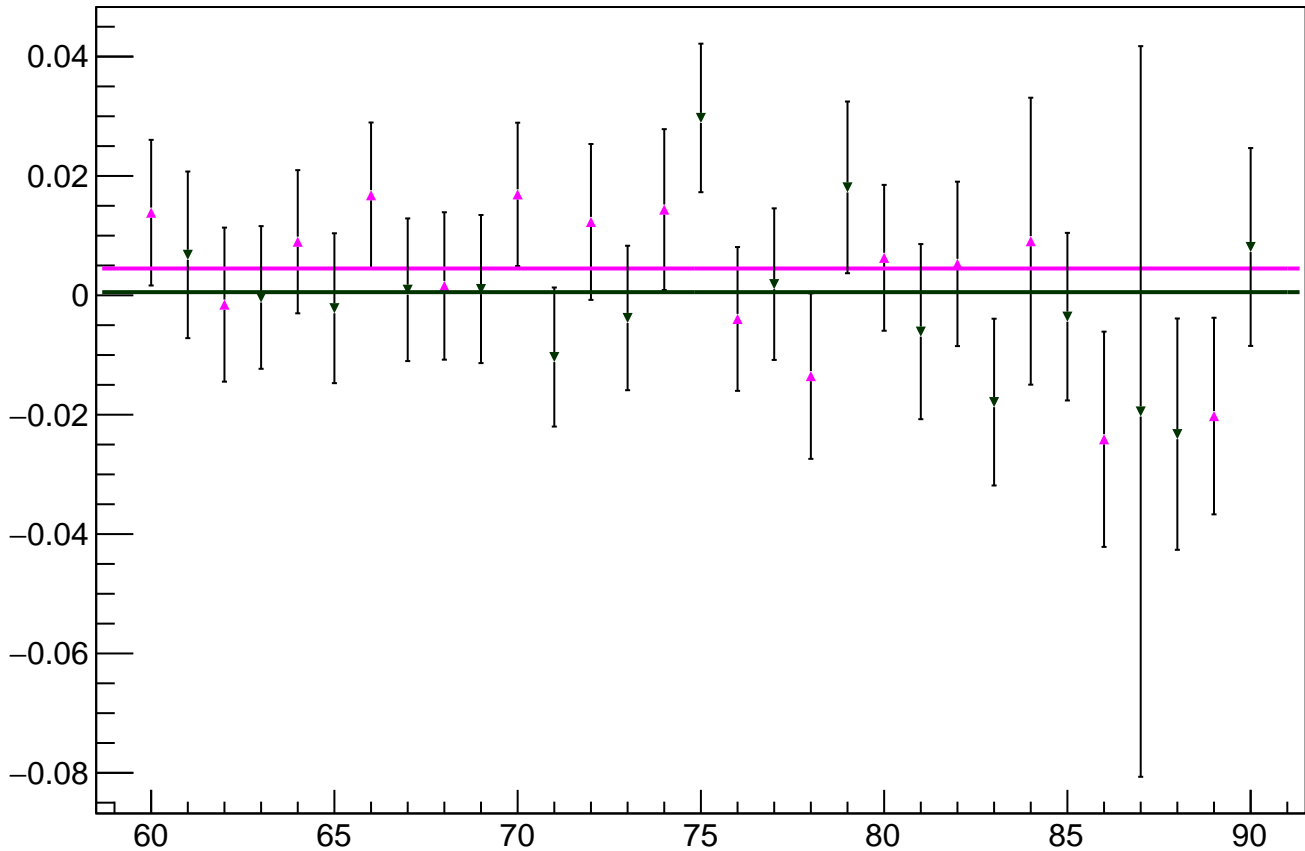
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

724.929+/-0.206  $\chi^2$ /NDF: 2235546.1/14

Left In: 724.929+/-0.206  $\chi^2$ /NDF: 2235546.1/14



# diff\_cav4dX\_mean vs slug



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

Left Out: 0.001+/-0.003  $\chi^2$ /NDF:12.1/15

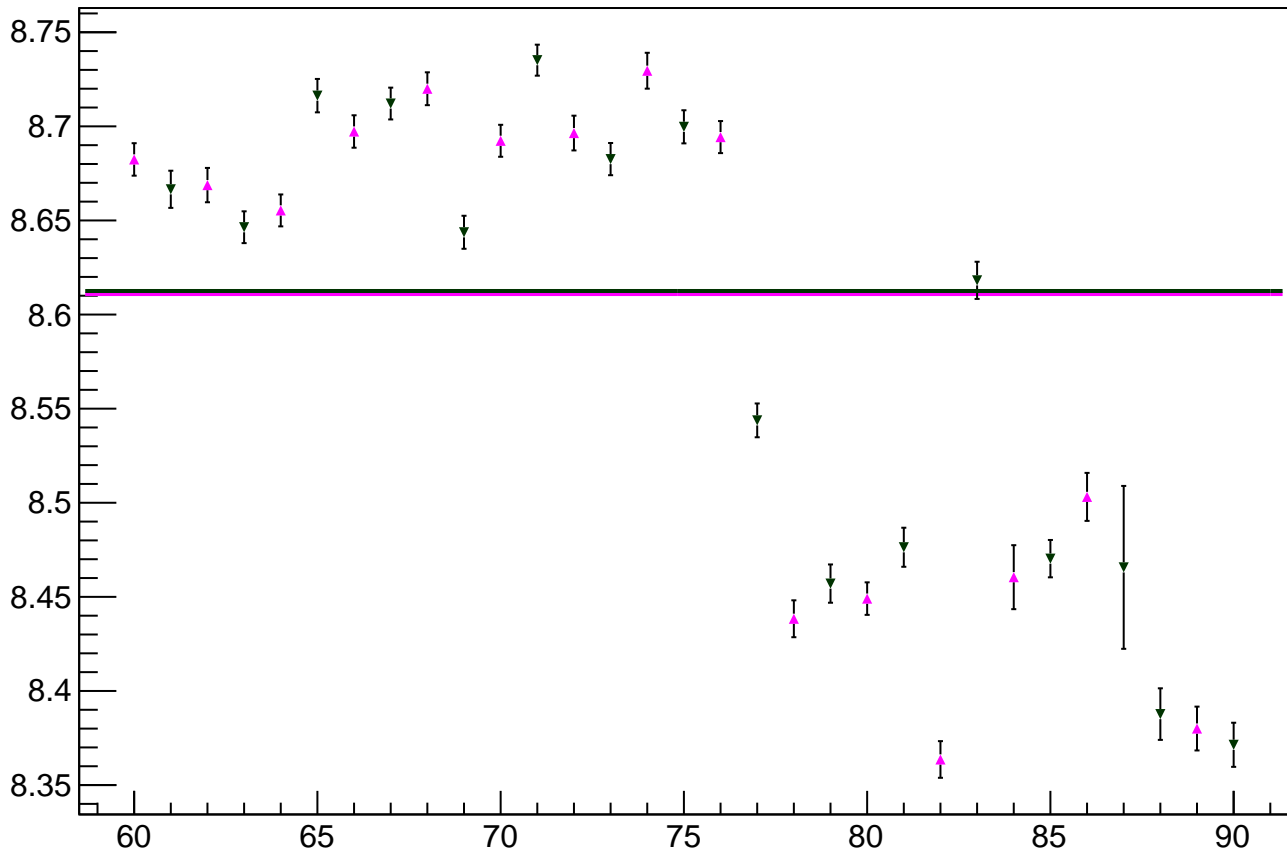
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.004+/-0.003  $\chi^2$ /NDF:11.0/14

0.001+/-0.003  $\chi^2$ /NDF: 12.1/15

0.004+/-0.003  $\chi^2$ /NDF: 11.0/14

# diff\_cav4dX\_rms vs slug



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

Left Out: 8.613+/-0.002  $\chi^2$ /NDF:2095.4/15

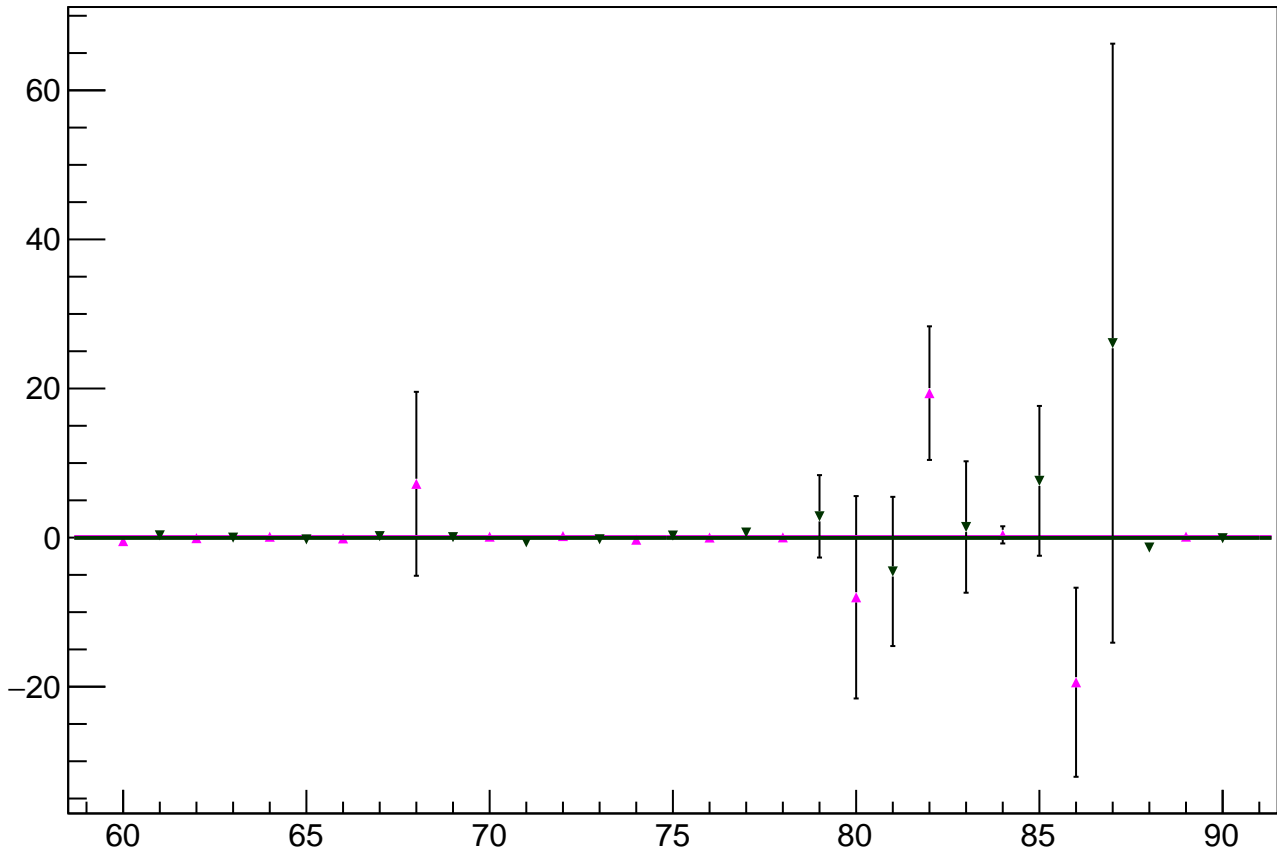
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 8.611+/-0.002  $\chi^2$ /NDF:2669.6/14

8.613+/-0.002  $\chi^2$ /NDF: 2095.4/15

8.611+/-0.002  $\chi^2$ /NDF: 2669.6/14

# diff\_cav4dY\_mean vs slug



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

Left Out: -0.036+/-0.066  $\chi^2$ /NDF:19.0/15

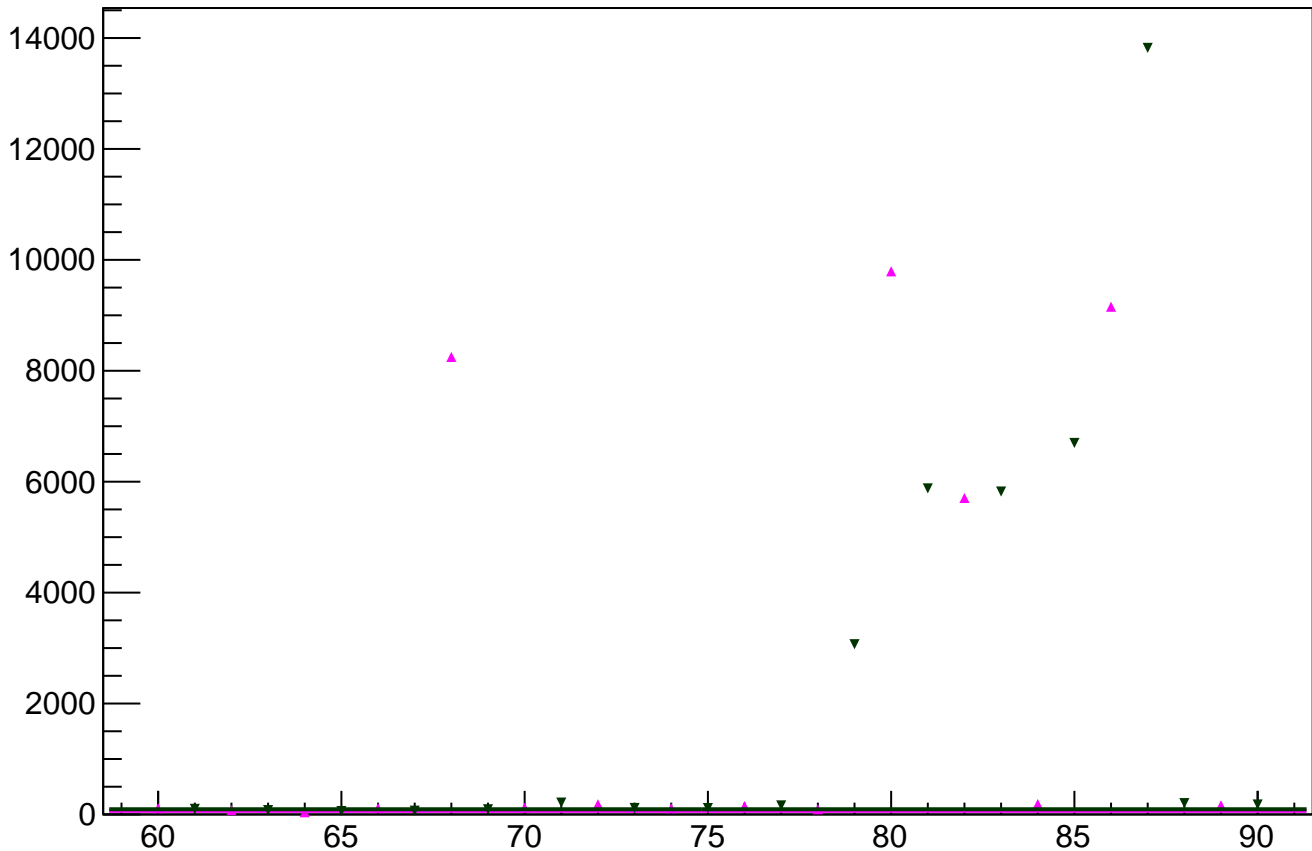
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.074+/-0.051  $\chi^2$ /NDF:12.4/14

-0.036+/-0.066  $\chi^2$ /NDF: 19.0/15

0.074+/-0.051  $\chi^2$ /NDF: 12.4/14

# diff\_cav4dY\_rms vs slug



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

Left Out: 93.785+/-0.047  $\chi^2/\text{NDF}$ : 3644802.2/15

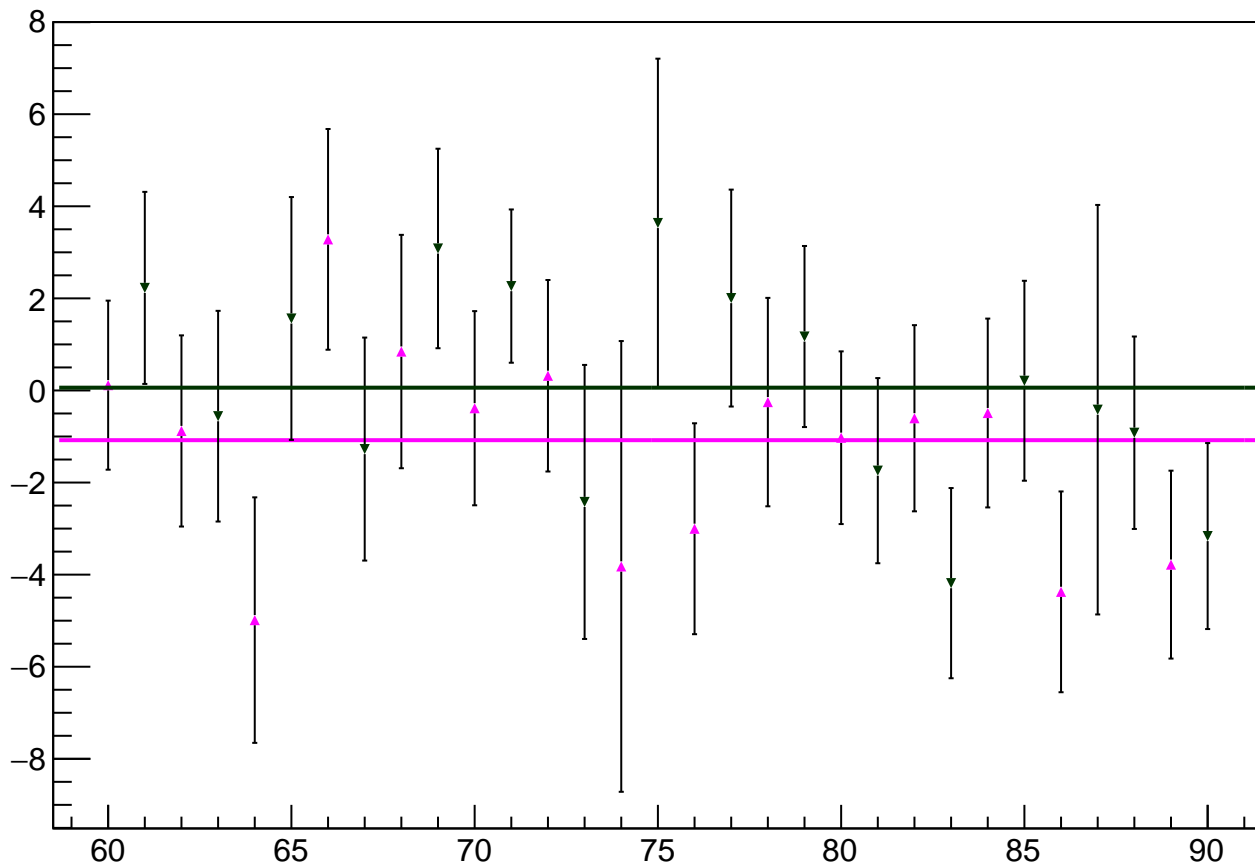
93.785+/-0.047  $\chi^2/\text{NDF}$ : 3644802.2/15

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

64.107+/-0.036  $\chi^2/\text{NDF}$ : 4769543.6/14

Left In: 64.107+/-0.036  $\chi^2/\text{NDF}$ : 4769543.6/14

# diff\_bpm4aX\_mean vs slug



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

Left Out: 0.060+/-0.563  $\chi^2/\text{NDF}$ : 16.0/15

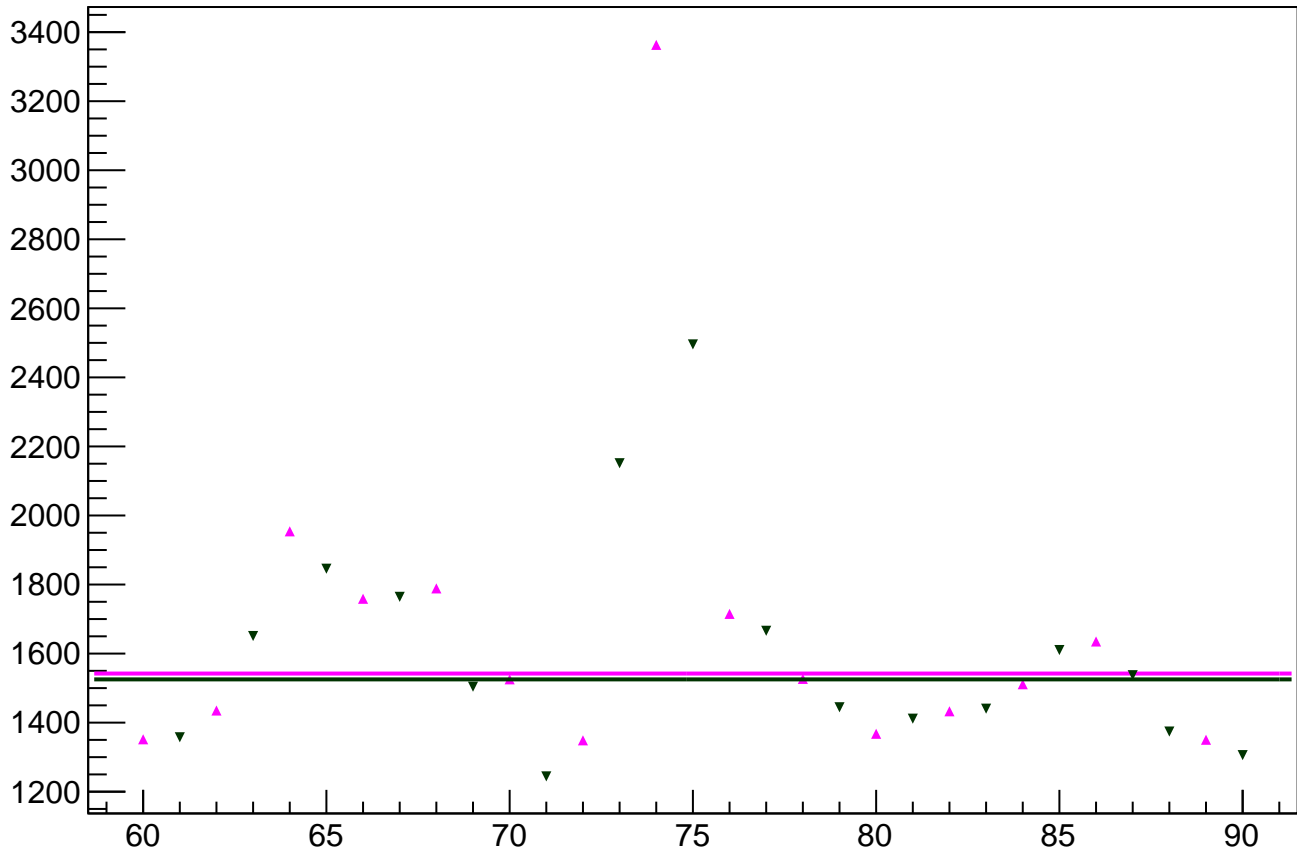
0.060+/-0.563  $\chi^2/\text{NDF}$ : 16.0/15

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

-1.080+/-0.568  $\chi^2/\text{NDF}$ : 12.4/14

Left In: -1.080+/-0.568  $\chi^2/\text{NDF}$ : 12.4/14

# diff\_bpm4aX\_rms vs slug



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

Left Out: 1525.251+/-0.398  $\chi^2$ /NDF:418994.0/15

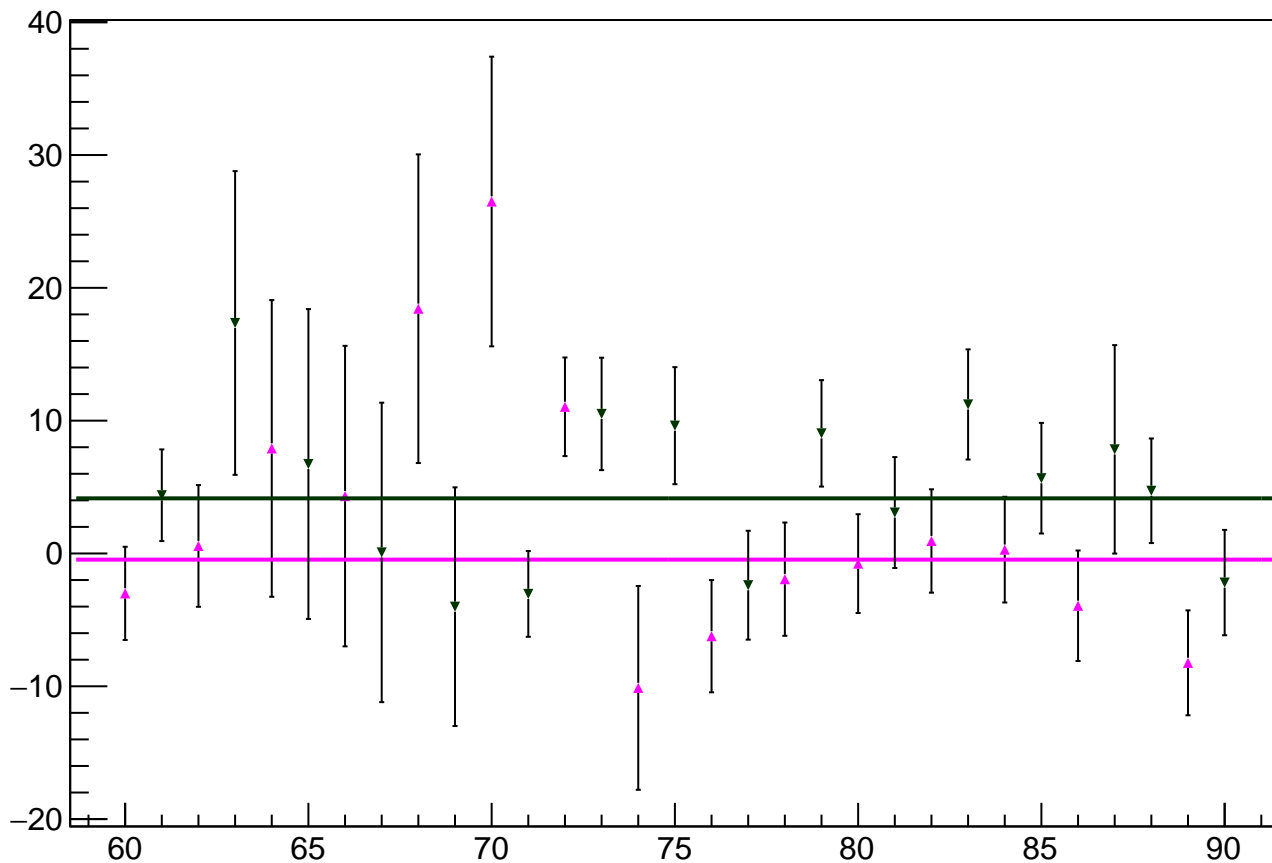
1525.251+/-0.398  $\chi^2$ /NDF: 418994.0/15

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

1542.162+/-0.402  $\chi^2$ /NDF: 460496.7/14

Left In: 1542.162+/-0.402  $\chi^2$ /NDF:460496.7/14

# diff\_bpm4aY\_mean vs slug



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

Left Out: 4.150 $\pm$ 1.146  $\chi^2$ /NDF:21.0/15

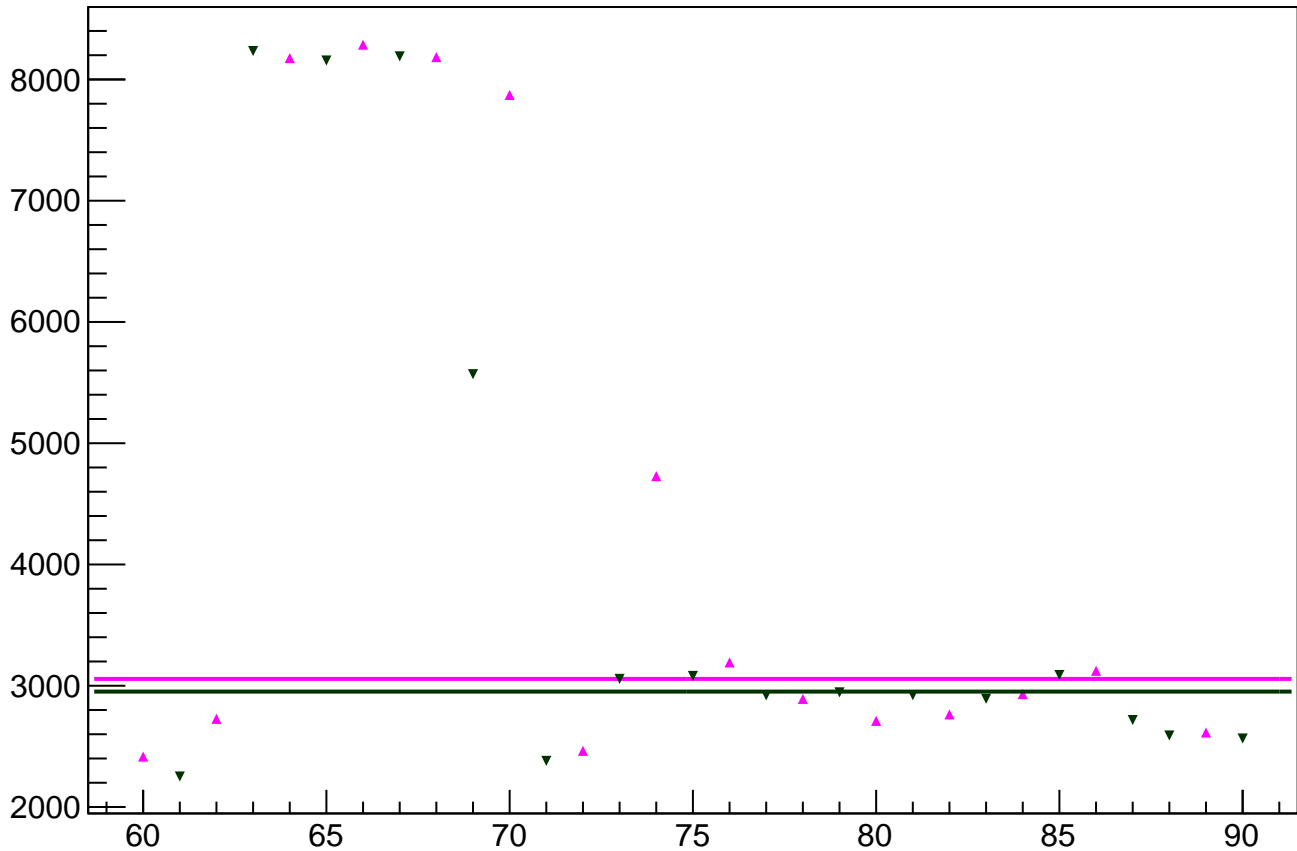
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.464 $\pm$ 1.209  $\chi^2$ /NDF:28.0/14

4.150 $\pm$ 1.146  $\chi^2$ /NDF: 21.0/15

-0.464 $\pm$ 1.209  $\chi^2$ /NDF: 28.0/14

# diff\_bpm4aY\_rms vs slug



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

Left Out: 2951.717+/-0.810  $\chi^2$ /NDF:1614990.1/15

2951.717+/-0.810  $\chi^2$ /NDF: 1614990.1/15

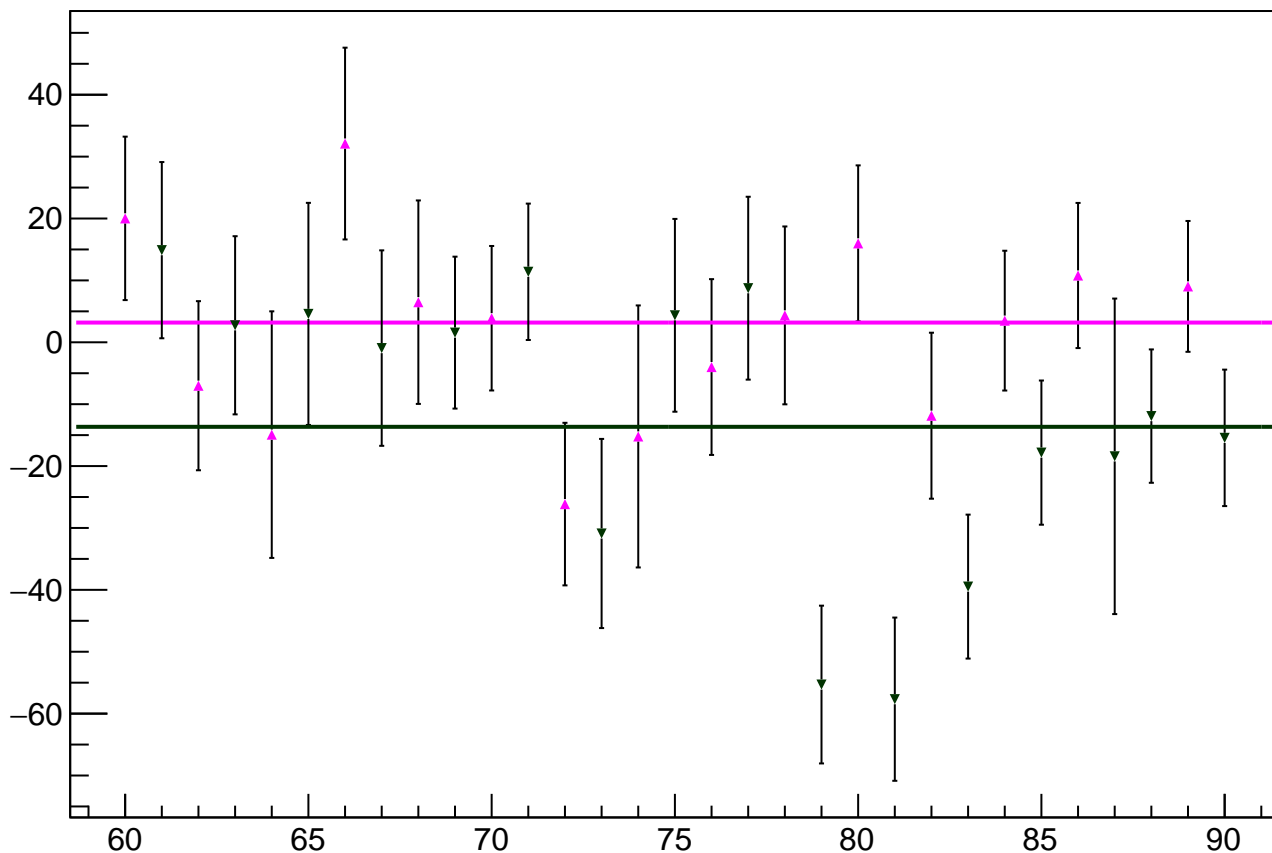
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3056.269+/-0.855  $\chi^2$ /NDF: 1911696.1/14

Left In: 3056.269+/-0.855  $\chi^2$ /NDF:1911696.1/14



# diff\_bpm4eX\_mean vs slug



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

Left Out: -13.658+/-3.337  $\chi^2/\text{NDF}$ : 45.6/15

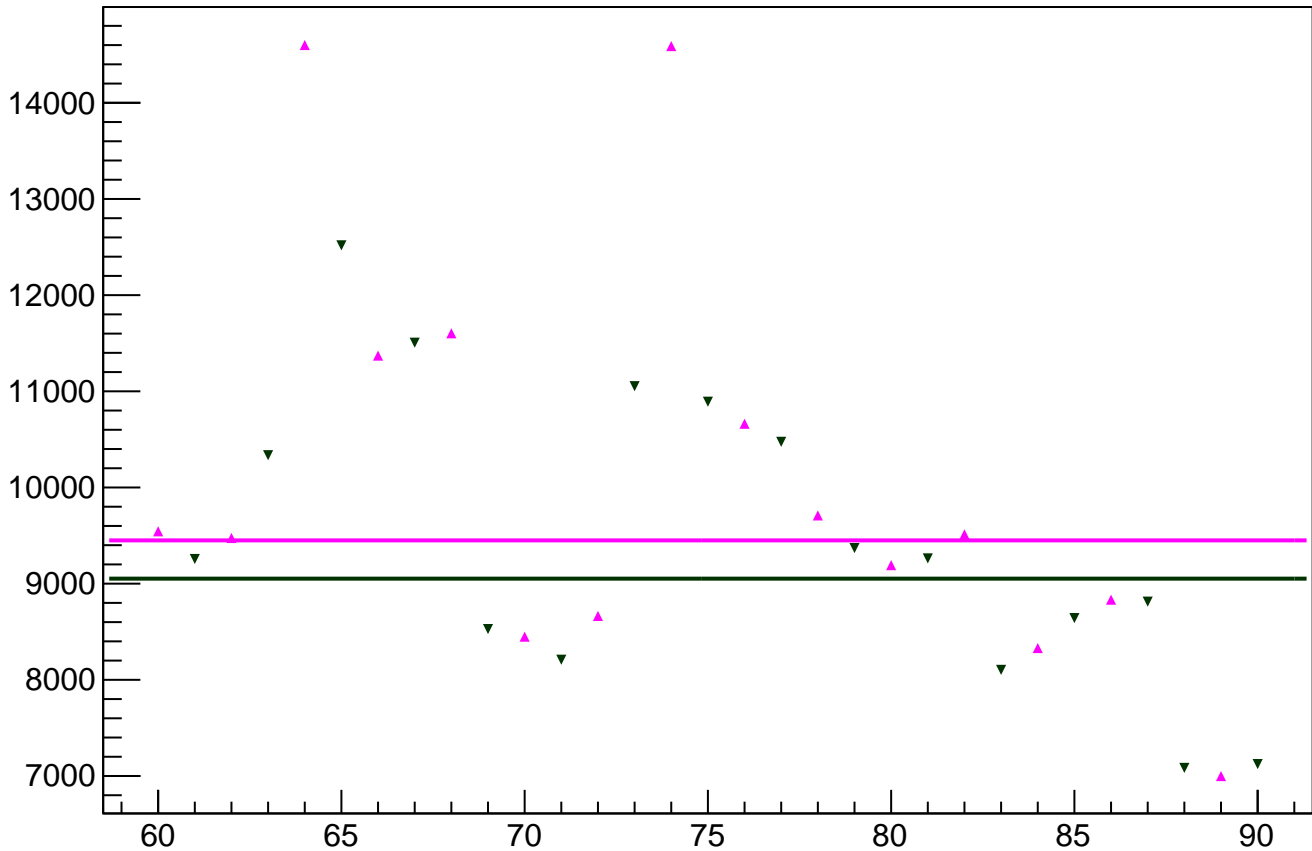
-13.658+/-3.337  $\chi^2/\text{NDF}$ : 45.6/15

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

3.187+/-3.480  $\chi^2/\text{NDF}$ : 15.6/14

Left In: 3.187+/-3.480  $\chi^2/\text{NDF}$ : 15.6/14

# diff\_bpm4eX\_rms vs slug



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

9052.132+/-2.360  $\chi^2$ /NDF: 380897.9/15

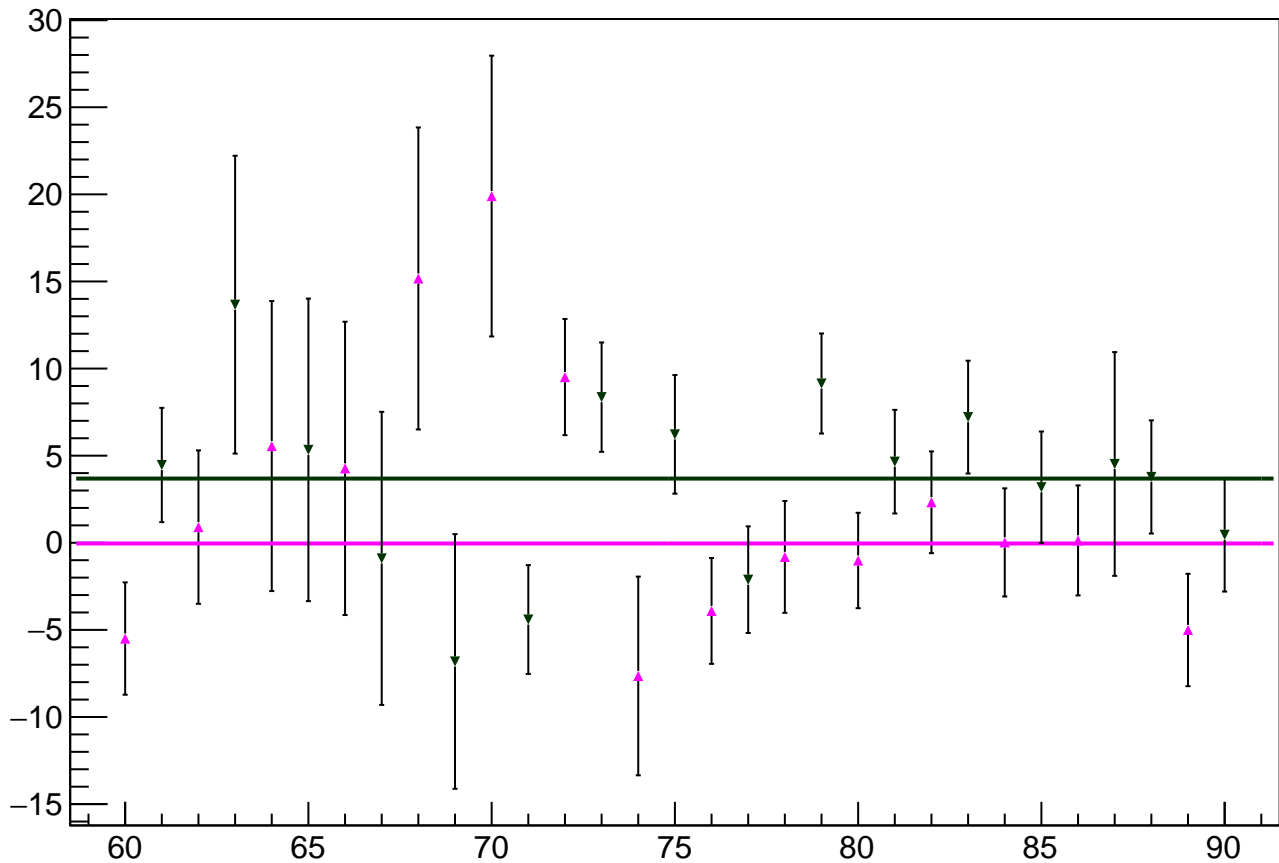
Left Out: 9052.132+/-2.360  $\chi^2$ /NDF:380897.9/15

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

9449.909+/-2.461  $\chi^2$ /NDF: 487455.2/14

Left In: 9449.909+/-2.461  $\chi^2$ /NDF:487455.2/14

# diff\_bpm4eY\_mean vs slug



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

Left Out: 3.686+/-0.916  $\chi^2$ /NDF:22.8/15

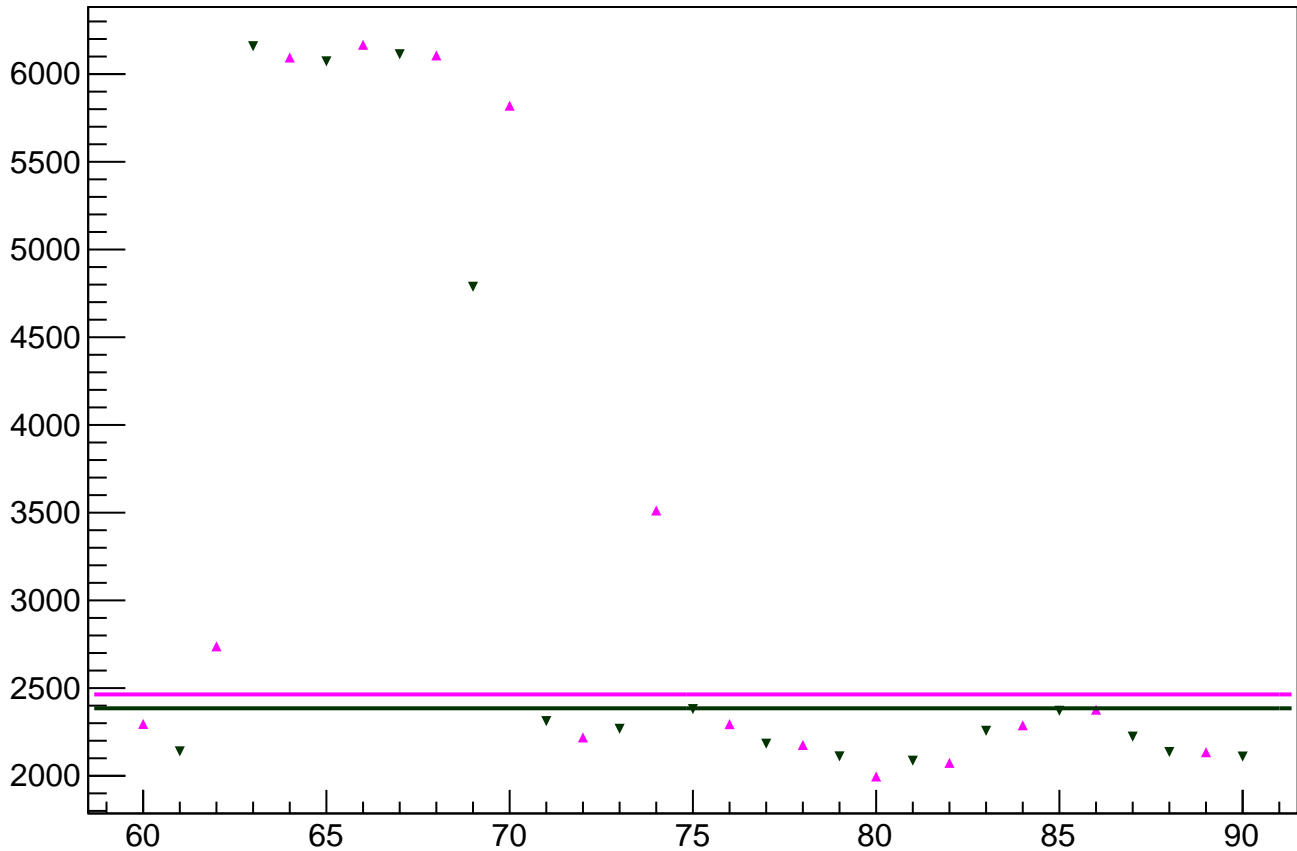
3.686+/-0.916  $\chi^2$ /NDF: 22.8/15

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

-0.041+/-0.961  $\chi^2$ /NDF: 27.7/14

Left In: -0.041+/-0.961  $\chi^2$ /NDF:27.7/14

# diff\_bpm4eY\_rms vs slug



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

2384.873+/-0.648  $\chi^2$ /NDF: 1452390.2/15

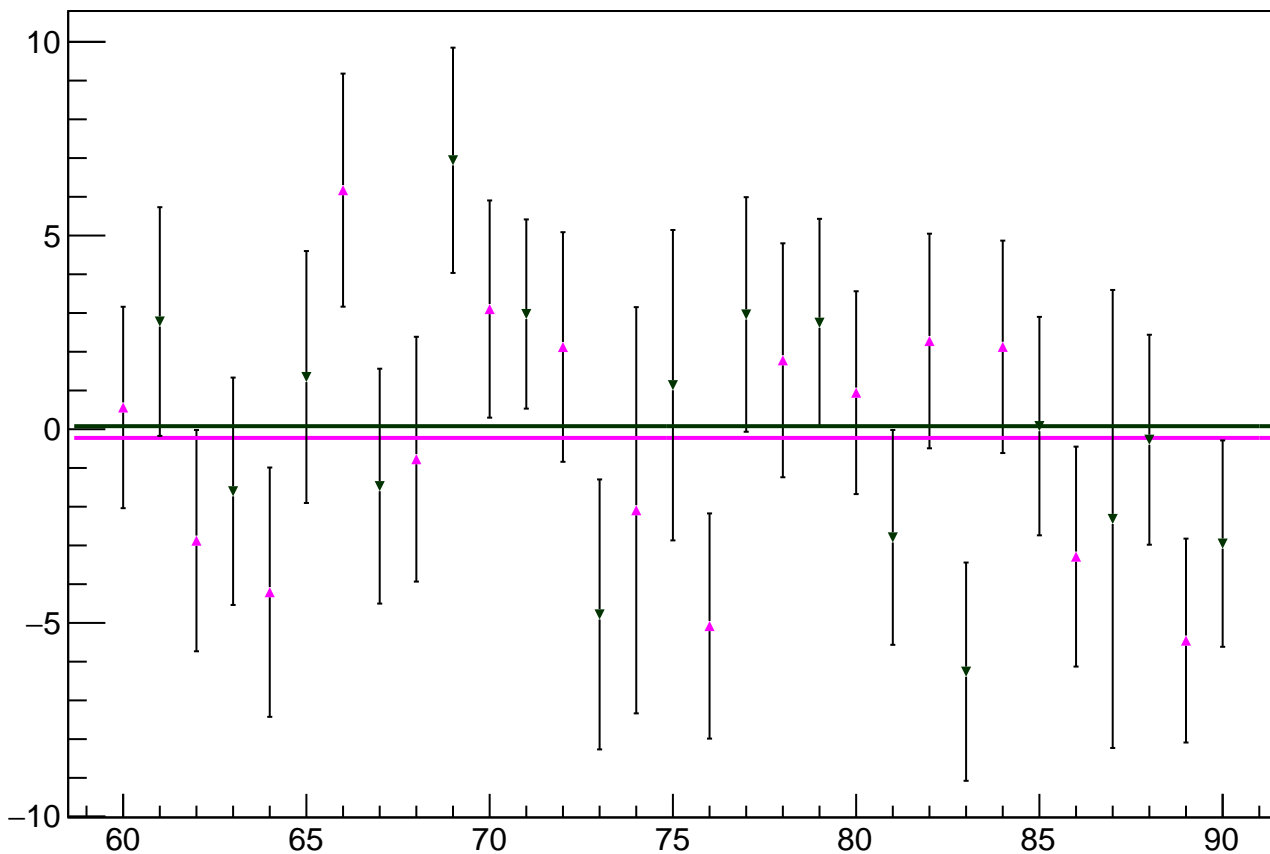
Left Out: 2384.873+/-0.648  $\chi^2$ /NDF: 1452390.2/15

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

2463.971+/-0.680  $\chi^2$ /NDF: 1704328.8/14

Left In: 2463.971+/-0.680  $\chi^2$ /NDF: 1704328.8/14

# diff\_bpm4acX\_mean vs slug

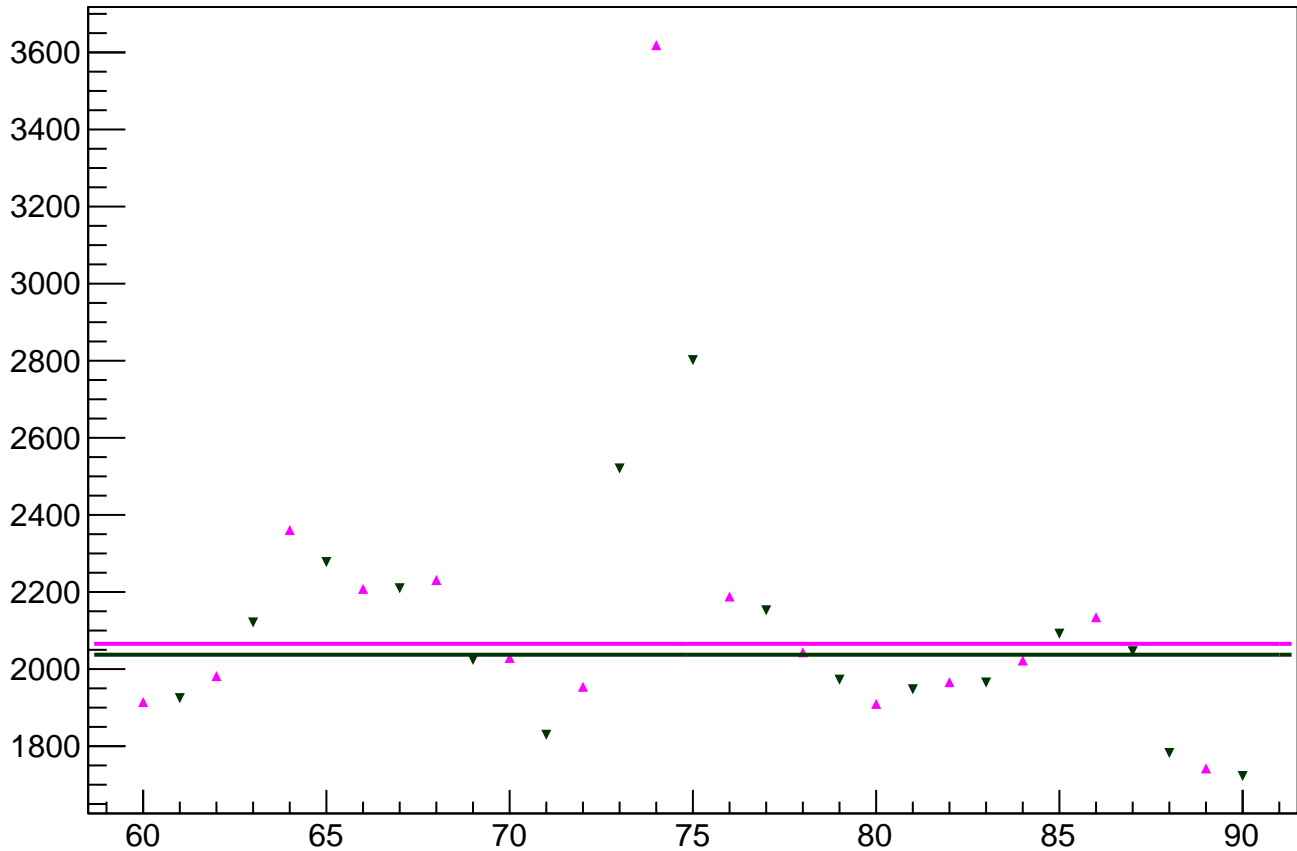


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.079 $\pm$ 0.745  $\chi^2$ /NDF:20.1/15  
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -0.224 $\pm$ 0.754  $\chi^2$ /NDF:19.3/14

0.079 $\pm$ 0.745  $\chi^2$ /NDF: 20.1/15

-0.224 $\pm$ 0.754  $\chi^2$ /NDF: 19.3/14

# diff\_bpm4acX\_rms vs slug



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

Left Out: 2037.280+/-0.527  $\chi^2$ /NDF:201557.3/15

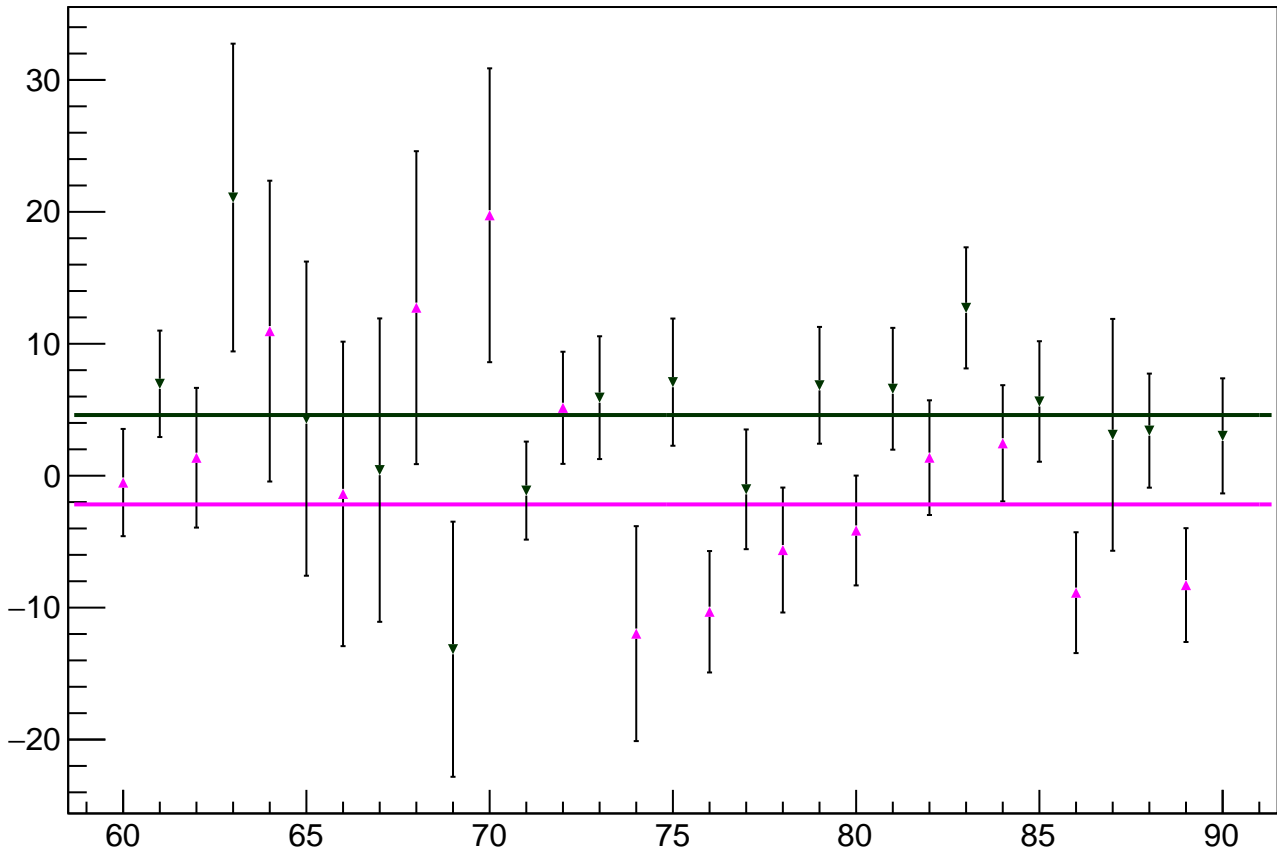
2037.280+/-0.527  $\chi^2$ /NDF: 201557.3/15

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

Left In: 2065.554+/-0.533  $\chi^2$ /NDF:259172.3/14

2065.554+/-0.533  $\chi^2$ /NDF: 259172.3/14

# diff\_bpm4acY\_mean vs slug



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

Left Out: 4.599+/-1.273  $\chi^2/\text{NDF}$ : 14.0/15

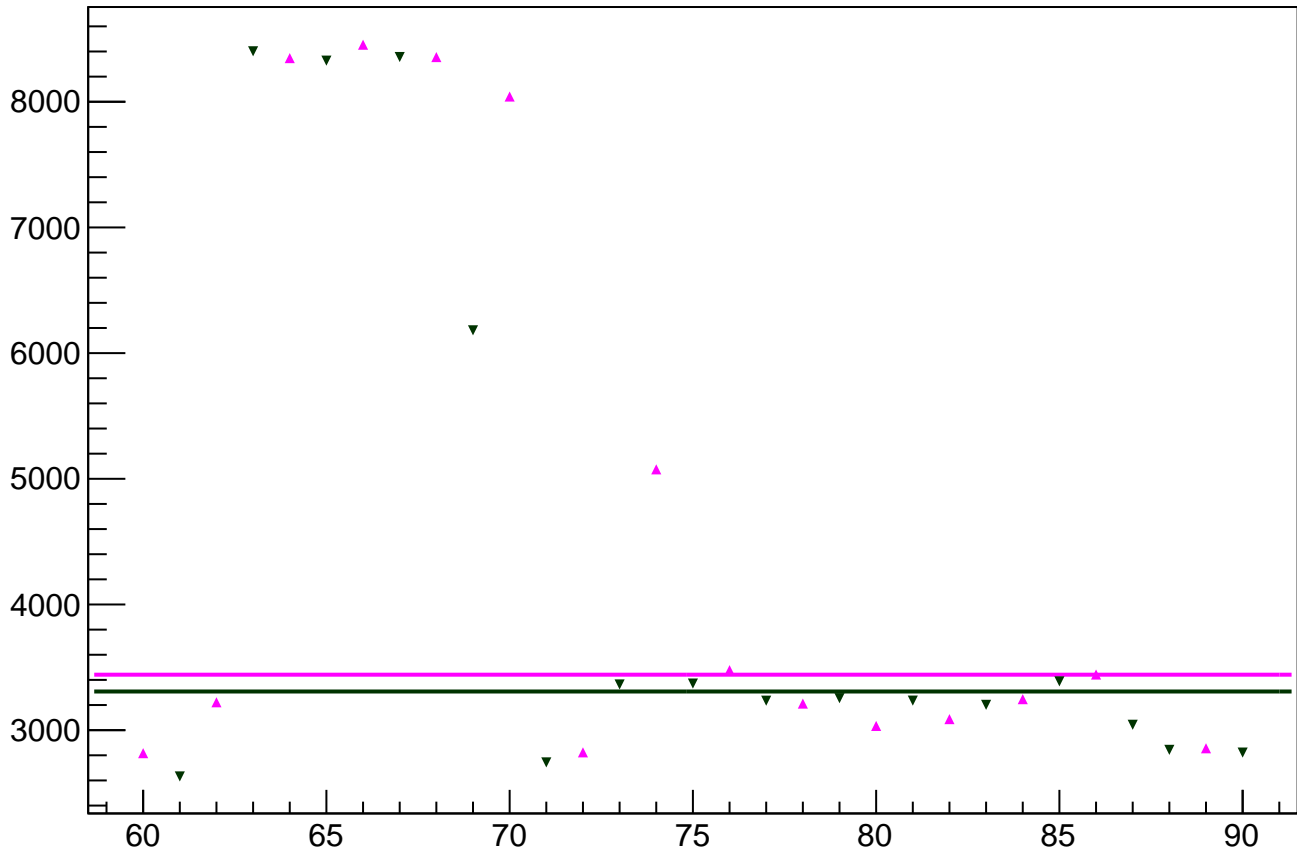
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -2.176+/-1.346  $\chi^2/\text{NDF}$ : 21.6/14

4.599+/-1.273  $\chi^2/\text{NDF}$ : 14.0/15

-2.176+/-1.346  $\chi^2/\text{NDF}$ : 21.6/14

# diff\_bpm4acY\_rms vs slug



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

Left Out: 3307.679+/-0.900  $\chi^2/\text{NDF}$ : 1454502.2/15

3307.679+/-0.900  $\chi^2/\text{NDF}$ : 1454502.2/15

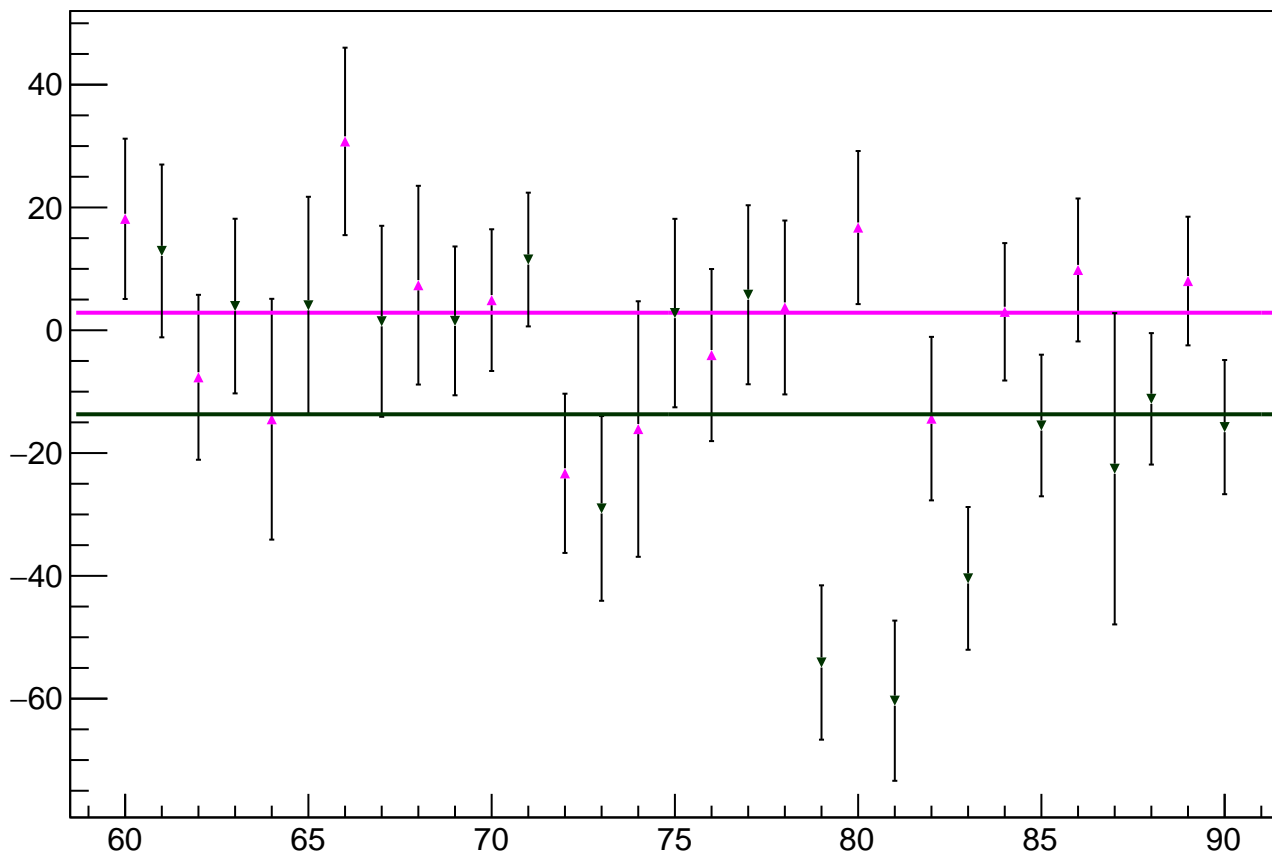
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3441.386+/-0.951  $\chi^2/\text{NDF}$ : 1683542.5/14

Left In: 3441.386+/-0.951  $\chi^2/\text{NDF}$ : 1683542.5/14



# diff\_bpm4ecX\_mean vs slug



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

Left Out: -13.686+/-3.302  $\chi^2/\text{NDF}$ : 46.6/15

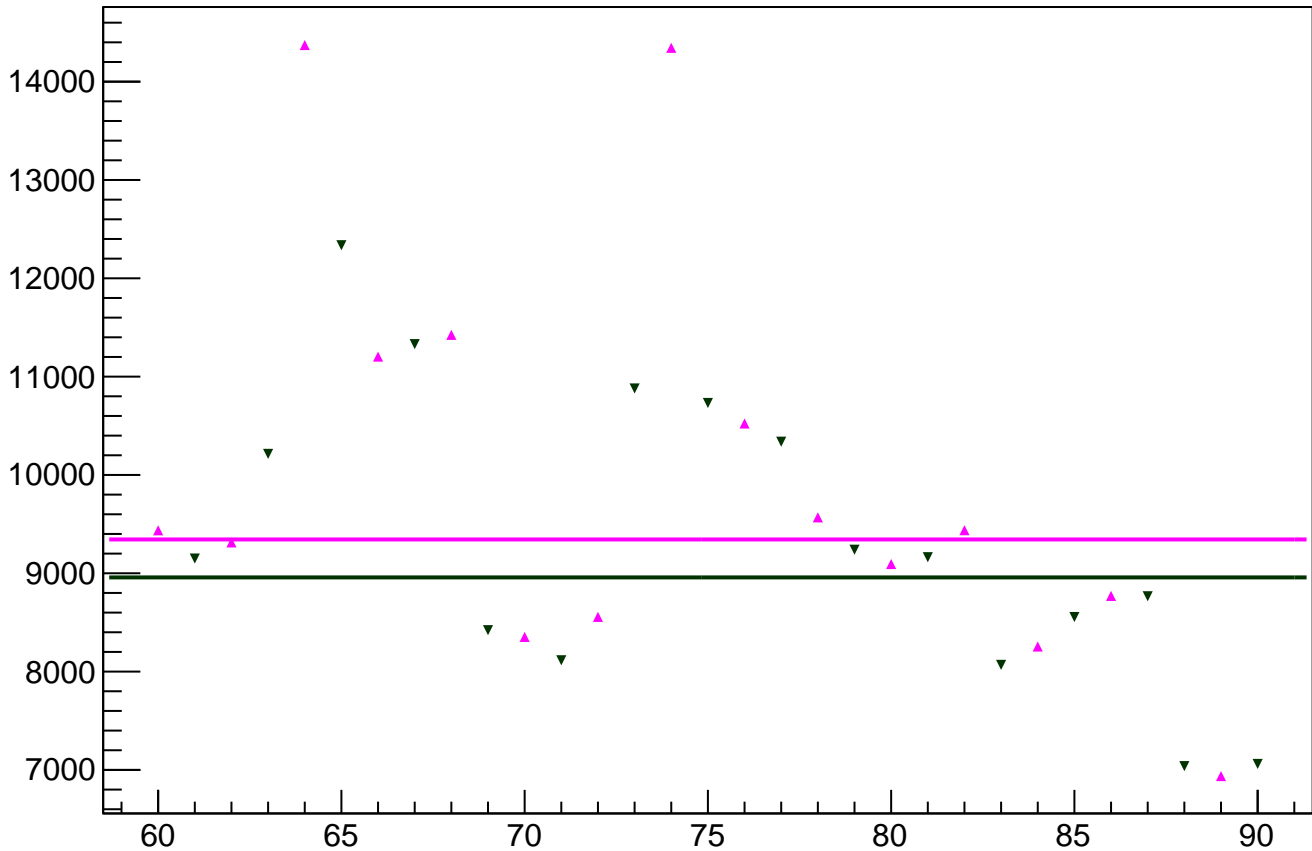
-13.686+/-3.302  $\chi^2/\text{NDF}$ : 46.6/15

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

2.857+/-3.440  $\chi^2/\text{NDF}$ : 14.9/14

Left In: 2.857+/-3.440  $\chi^2/\text{NDF}$ : 14.9/14

# diff\_bpm4ecX\_rms vs slug



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

Left Out: 8957.860+/-2.335  $\chi^2$ /NDF:369071.0/15

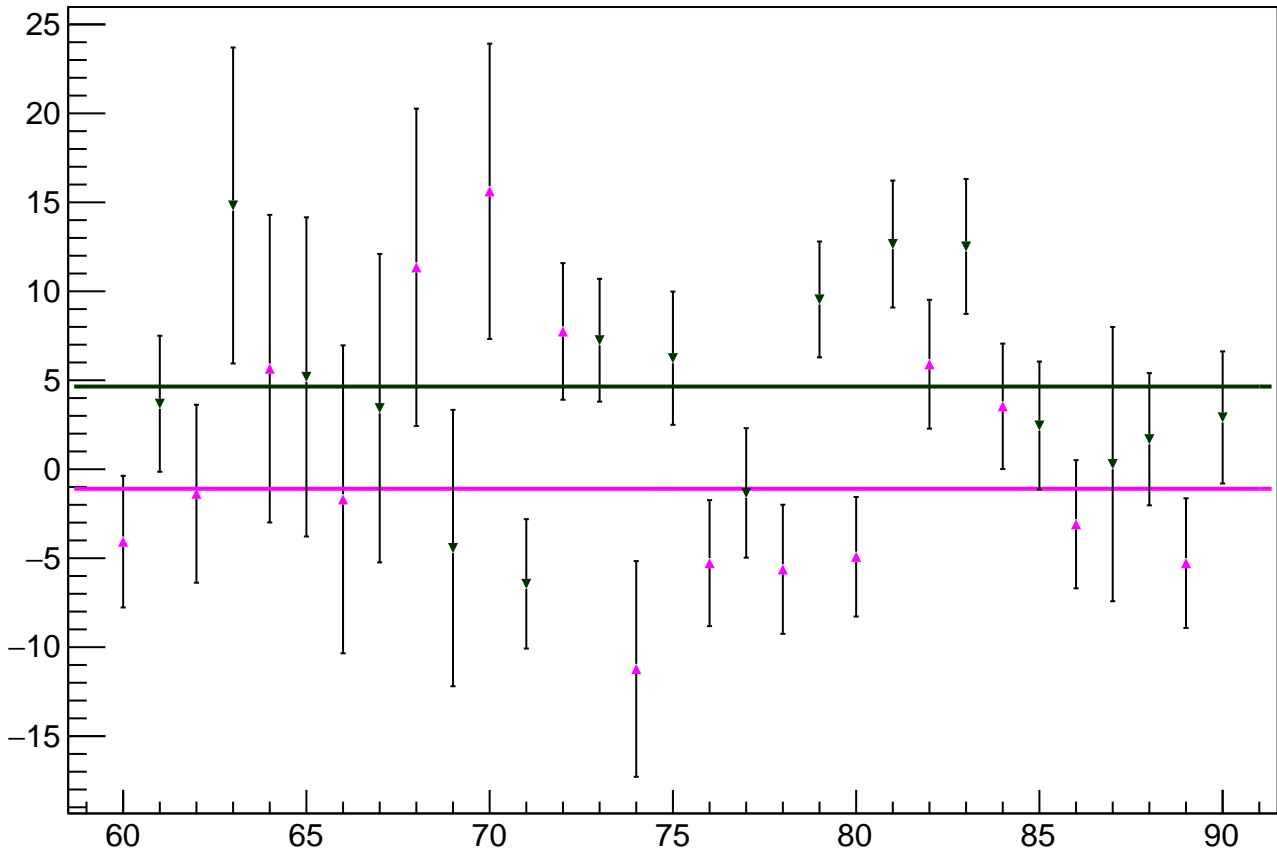
8957.860+/-2.335  $\chi^2$ /NDF: 369071.0/15

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

9343.967+/-2.432  $\chi^2$ /NDF: 476847.2/14

Left In: 9343.967+/-2.432  $\chi^2$ /NDF:476847.2/14

# diff\_bpm4ecY\_mean vs slug



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

Left Out: 4.648+/-1.047  $\chi^2/\text{NDF}$ : 28.7/15

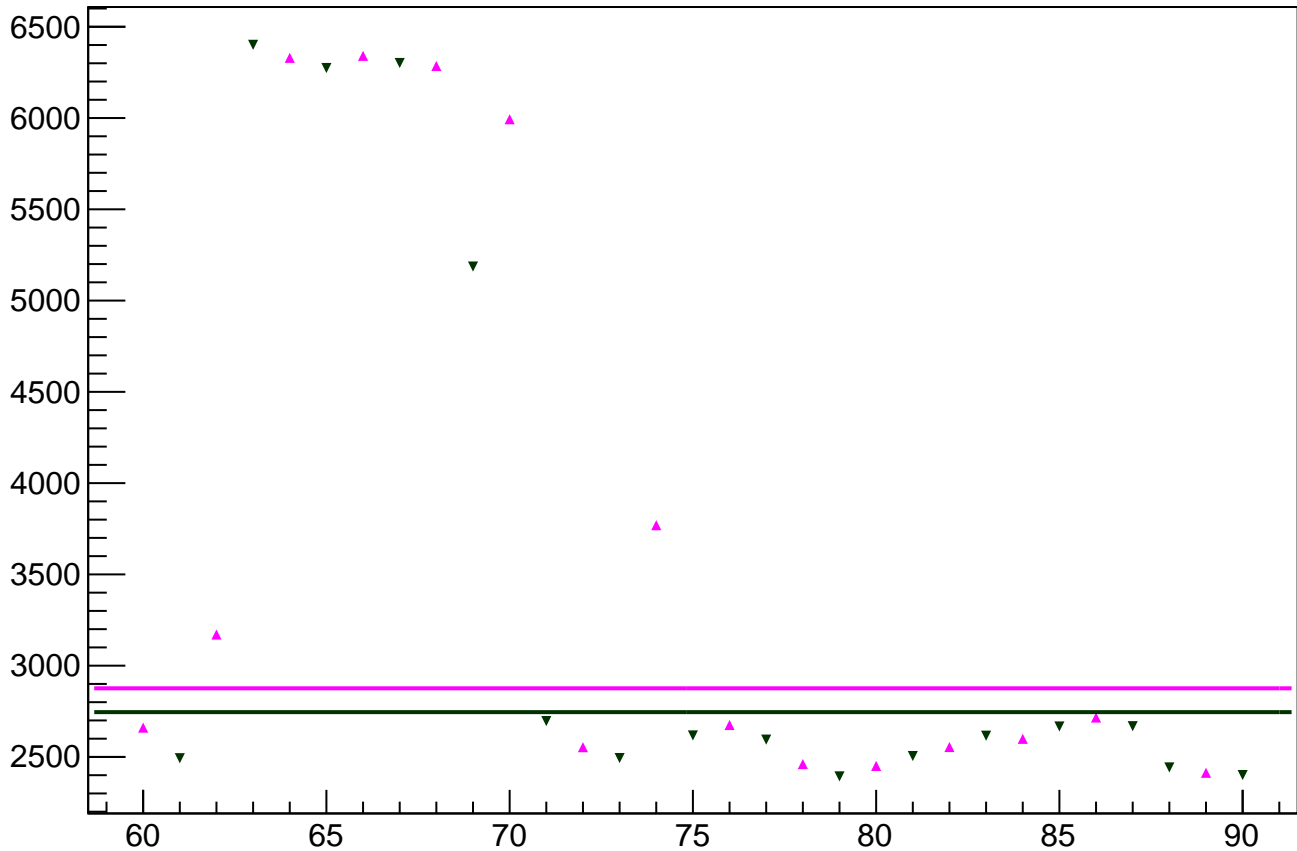
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -1.096+/-1.107  $\chi^2/\text{NDF}$ : 26.7/14

4.648+/-1.047  $\chi^2/\text{NDF}$ : 28.7/15

-1.096+/-1.107  $\chi^2/\text{NDF}$ : 26.7/14

# diff\_bpm4ecY\_rms vs slug



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

Left Out: 2745.464+/-0.741  $\chi^2$ /NDF:1274641.1/15

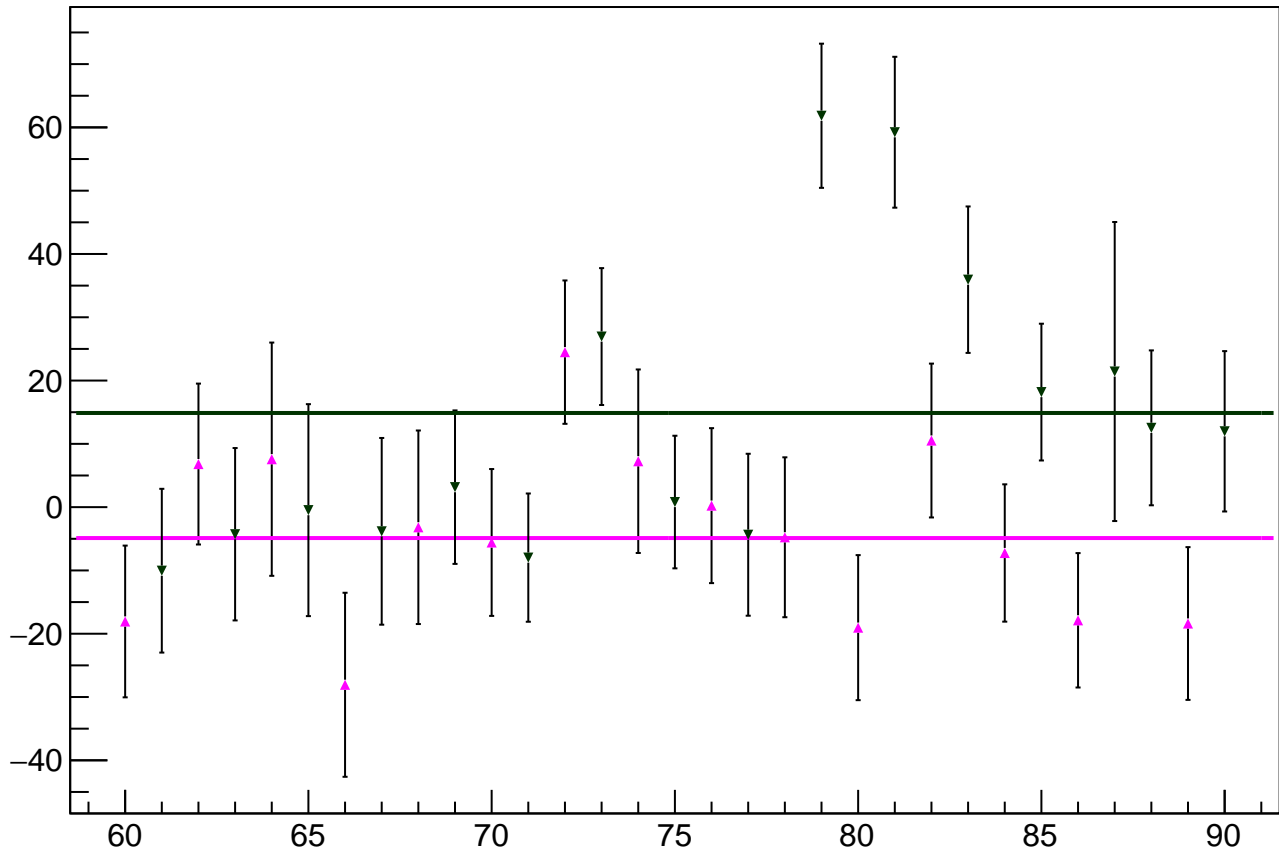
2745.464+/-0.741  $\chi^2$ /NDF: 1274641.1/15

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

2876.003+/-0.783  $\chi^2$ /NDF: 1414671.2/14

Left In: 2876.003+/-0.783  $\chi^2$ /NDF:1414671.2/14

# diff\_bpm1X\_mean vs slug



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

Left Out: 14.879+/-3.081  $\chi^2$ /NDF:53.9/15

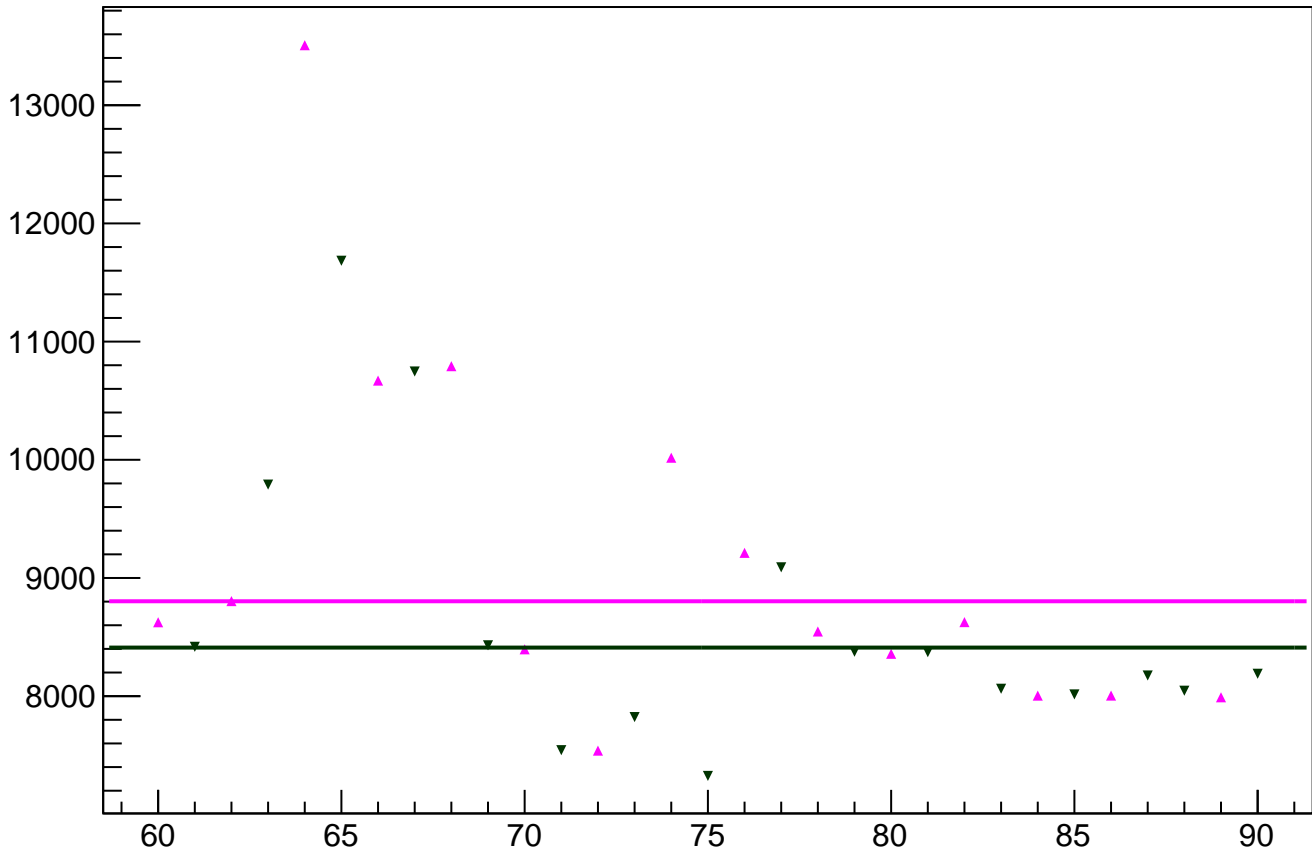
14.879+/-3.081  $\chi^2$ /NDF: 53.9/15

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

-4.884+/-3.217  $\chi^2$ /NDF: 18.6/14

Left In: -4.884+/-3.217  $\chi^2$ /NDF:18.6/14

# diff\_bpm1X\_rms vs slug



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

Left Out: 8411.047+/-2.179  $\chi^2$ /NDF:201928.4/15

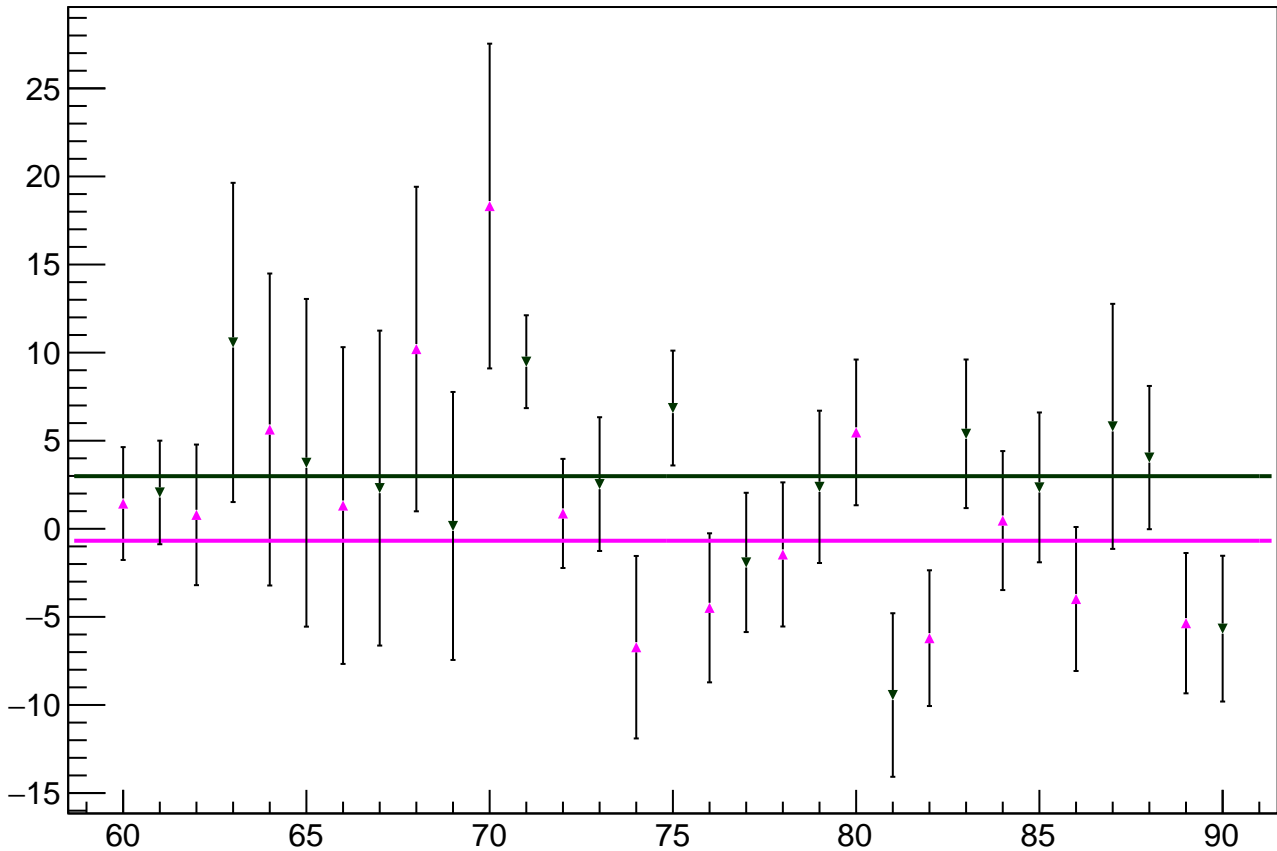
8411.047+/-2.179  $\chi^2$ /NDF: 201928.4/15

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

8802.933+/-2.275  $\chi^2$ /NDF: 276715.2/14

Left In: 8802.933+/-2.275  $\chi^2$ /NDF:276715.2/14

# diff\_bpm1Y\_mean vs slug



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

Left Out: 2.987+/-1.059  $\chi^2$ /NDF:22.1/15

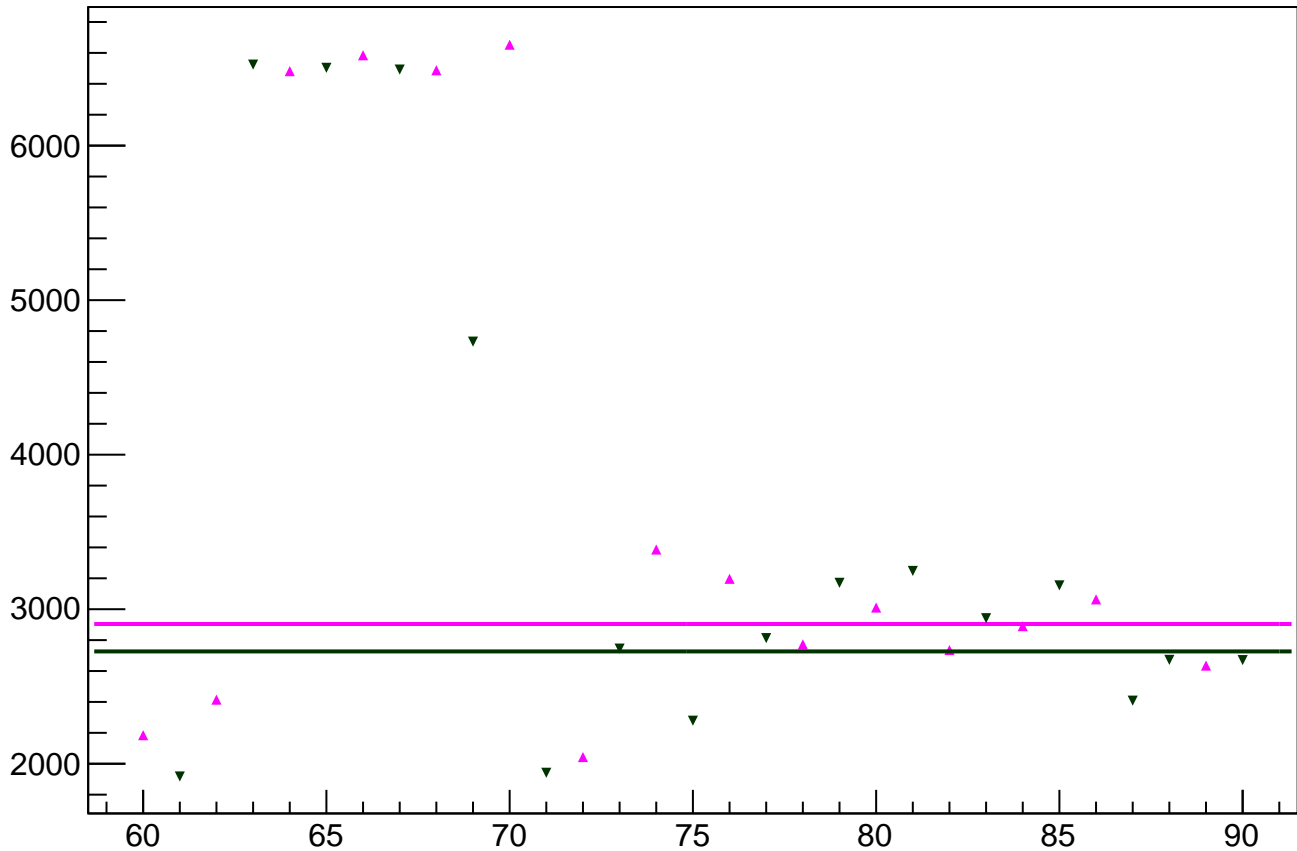
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.678+/-1.133  $\chi^2$ /NDF:15.6/14

2.987+/-1.059  $\chi^2$ /NDF: 22.1/15

-0.678+/-1.133  $\chi^2$ /NDF: 15.6/14

# diff\_bpm1Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2726.870+/-0.749  $\chi^2$ /NDF: 1619597.6/15

Left Out: 2726.870+/-0.749  $\chi^2$ /NDF: 1619597.6/15

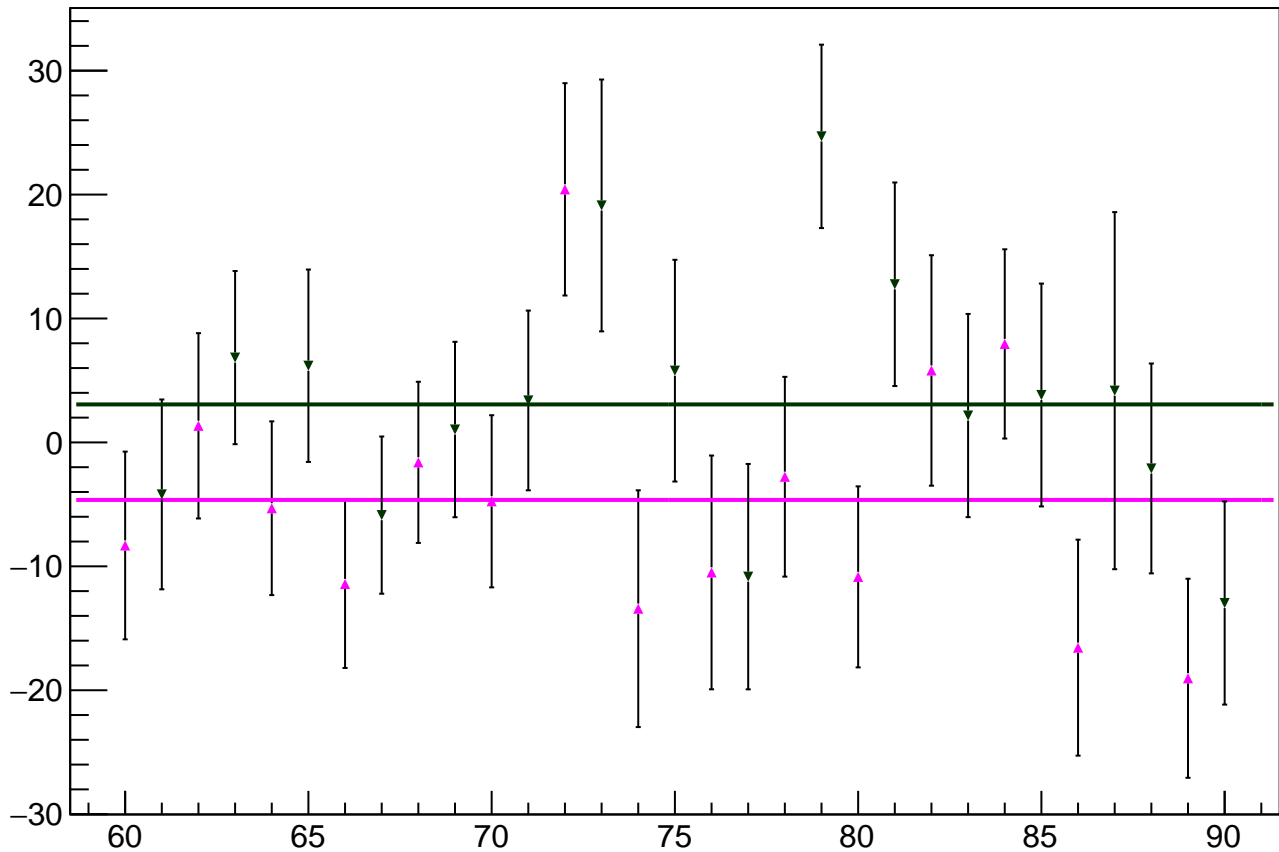
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2904.274+/-0.801  $\chi^2$ /NDF: 1627124.4/14

Left In: 2904.274+/-0.801  $\chi^2$ /NDF: 1627124.4/14



# diff\_bpm11X\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.066+/-2.015  $\chi^2/\text{NDF}$ :22.5/15

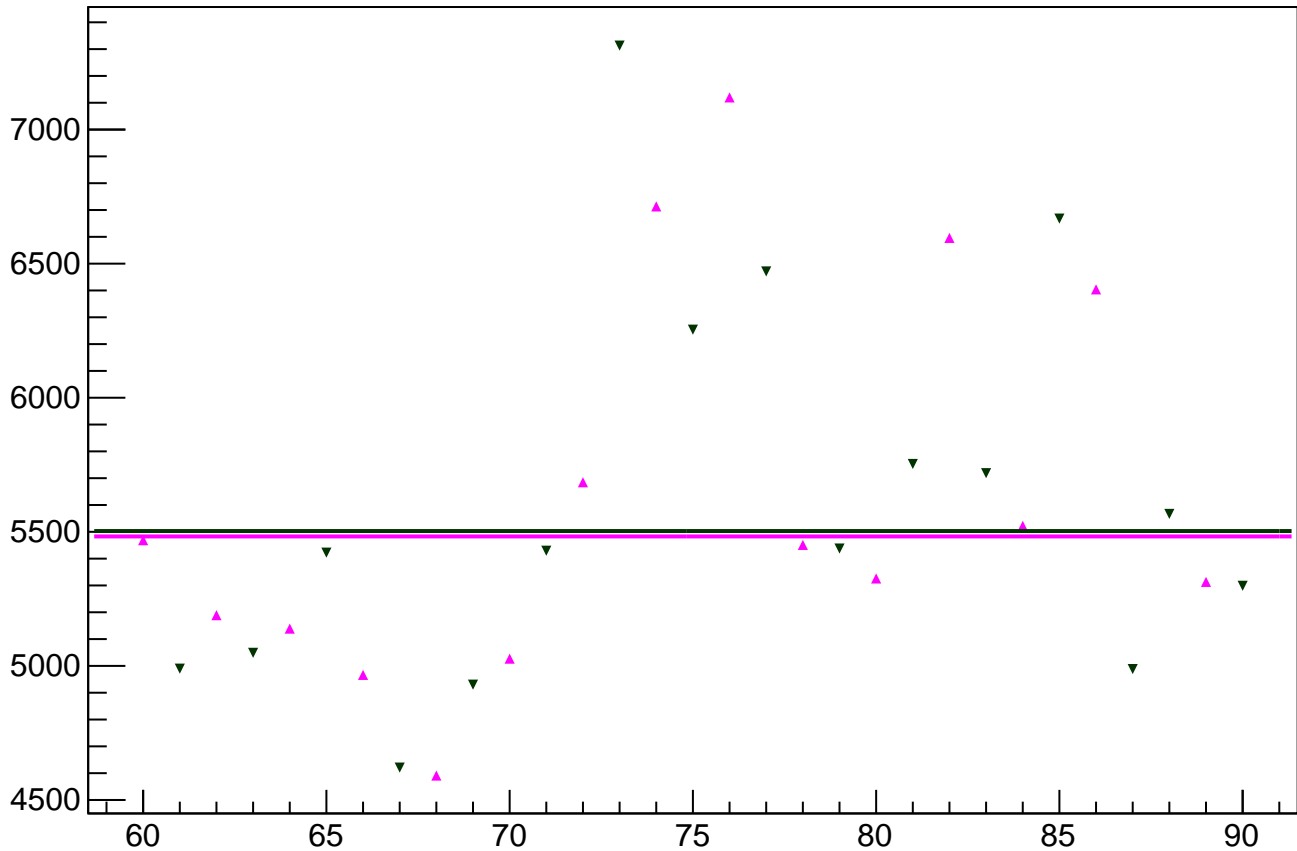
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.642+/-2.004  $\chi^2/\text{NDF}$ :21.7/14

3.066+/-2.015  $\chi^2/\text{NDF}$ : 22.5/15

-4.642+/-2.004  $\chi^2/\text{NDF}$ : 21.7/14

# diff\_bpm11X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5502.826+/-1.425  $\chi^2$ /NDF:210713.2/15

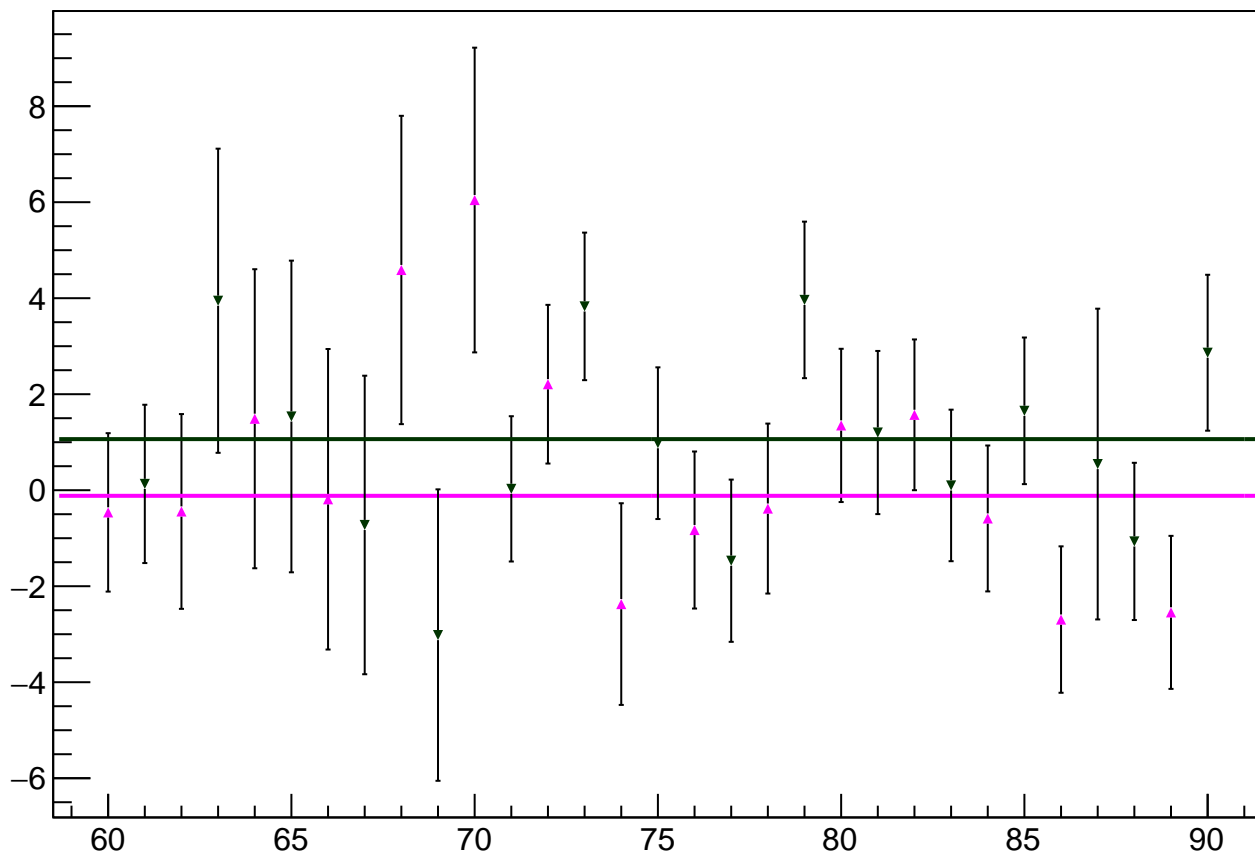
5502.826+/-1.425  $\chi^2$ /NDF: 210713.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5482.800+/-1.417  $\chi^2$ /NDF: 213173.6/14

Left In: 5482.800+/-1.417  $\chi^2$ /NDF:213173.6/14

# diff\_bpm11Y\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1.064+/-0.457  $\chi^2/\text{NDF}$ : 15.9/15

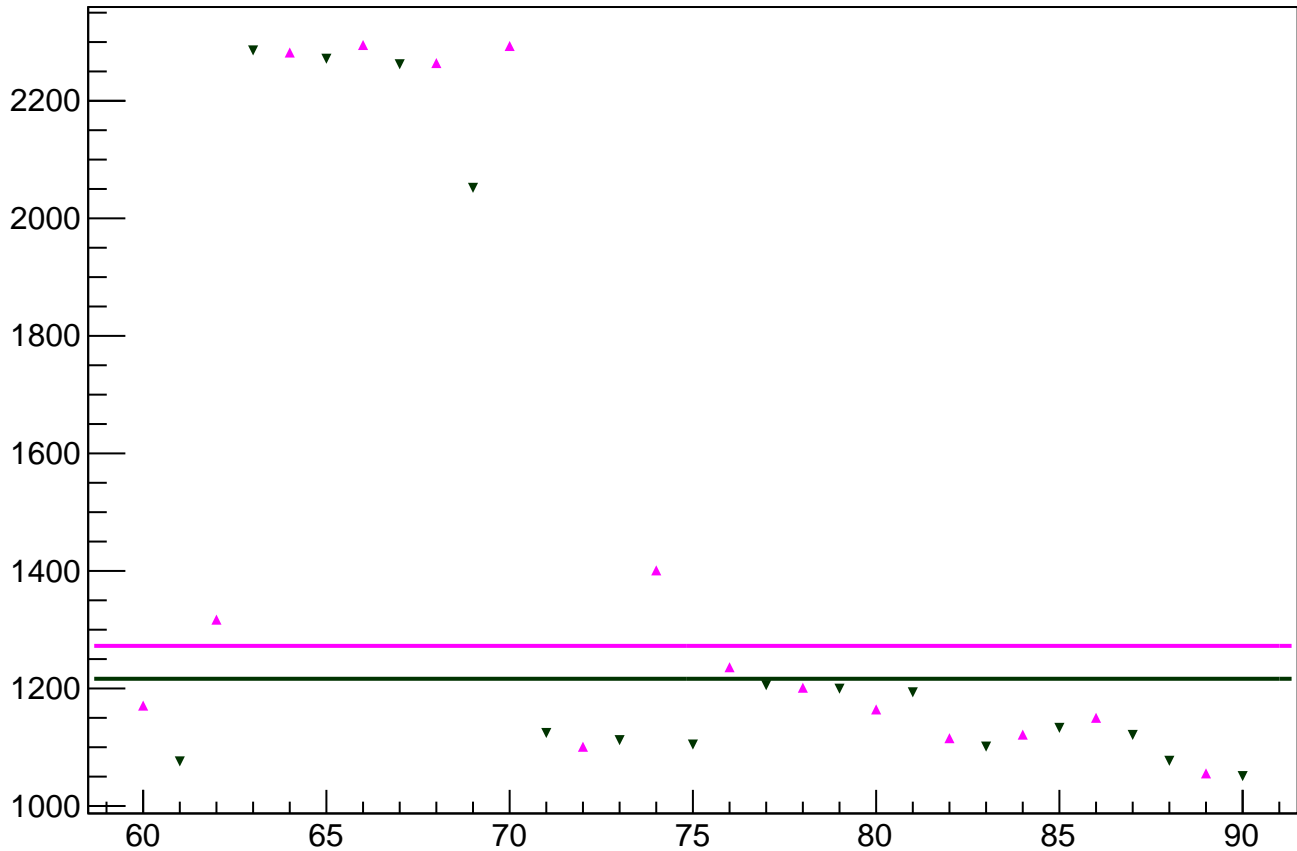
1.064+/-0.457  $\chi^2/\text{NDF}$ : 15.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.117+/-0.479  $\chi^2/\text{NDF}$ : 16.9/14

-0.117+/-0.479  $\chi^2/\text{NDF}$ : 16.9/14

# diff\_bpm11Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1216.496+/-0.323  $\chi^2$ /NDF:912443.7/15

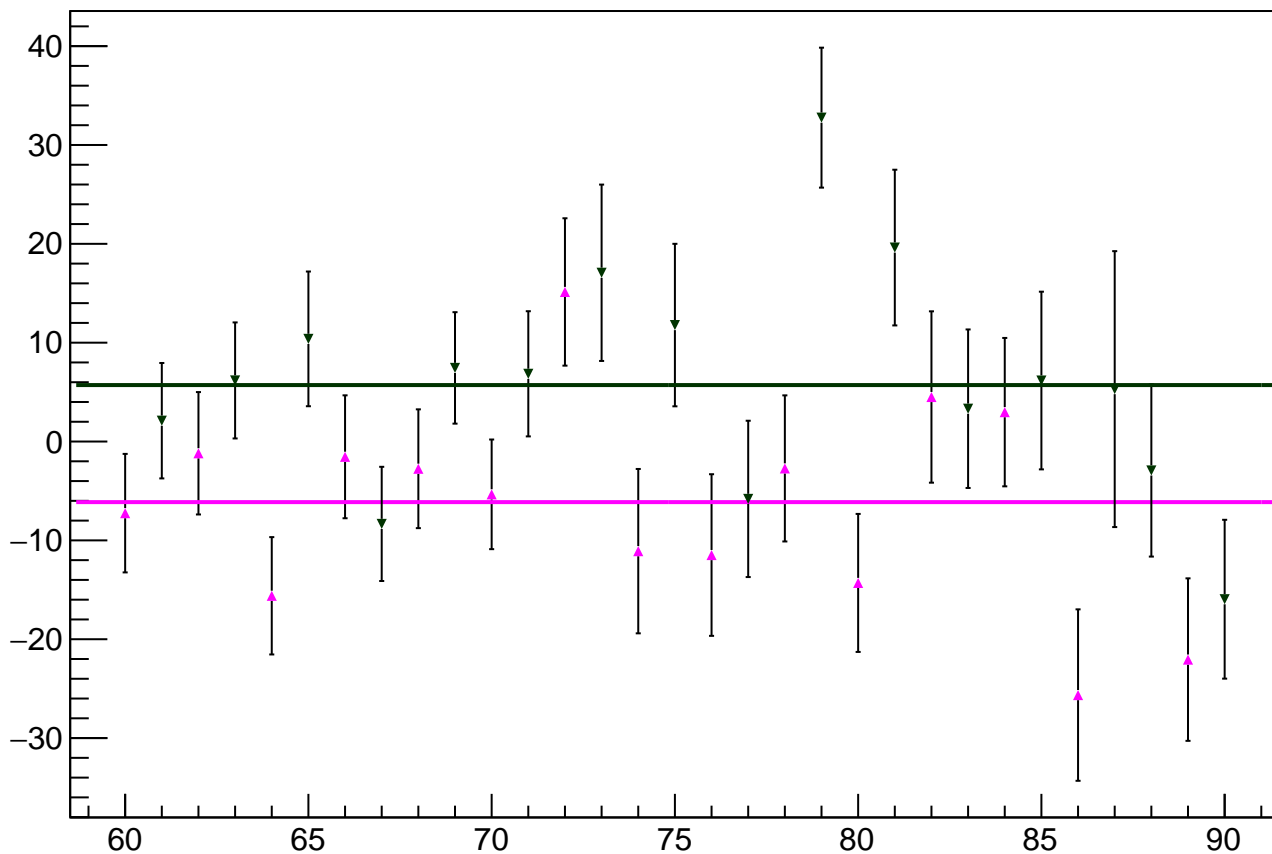
1216.496+/-0.323  $\chi^2$ /NDF: 912443.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1272.485+/-0.339  $\chi^2$ /NDF:961867.2/14

1272.485+/-0.339  $\chi^2$ /NDF: 961867.2/14

# diff\_bpm12X\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.712+/-1.804  $\chi^2/\text{NDF}$ : 37.3/15

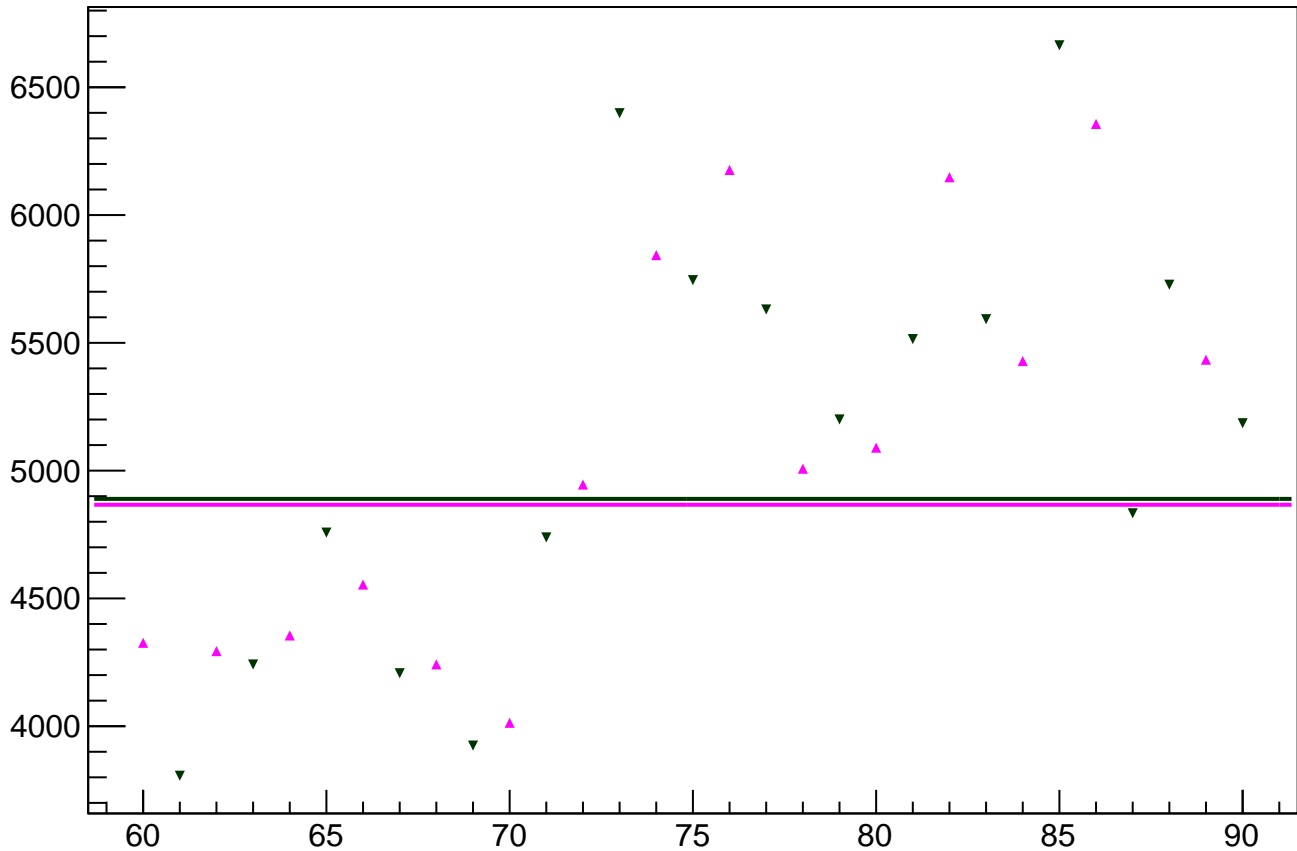
5.712+/-1.804  $\chi^2/\text{NDF}$ : 37.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -6.130+/-1.785  $\chi^2/\text{NDF}$ : 26.4/14

-6.130+/-1.785  $\chi^2/\text{NDF}$ : 26.4/14

# diff\_bpm12X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4889.479+/-1.275  $\chi^2$ /NDF: 409193.6/15

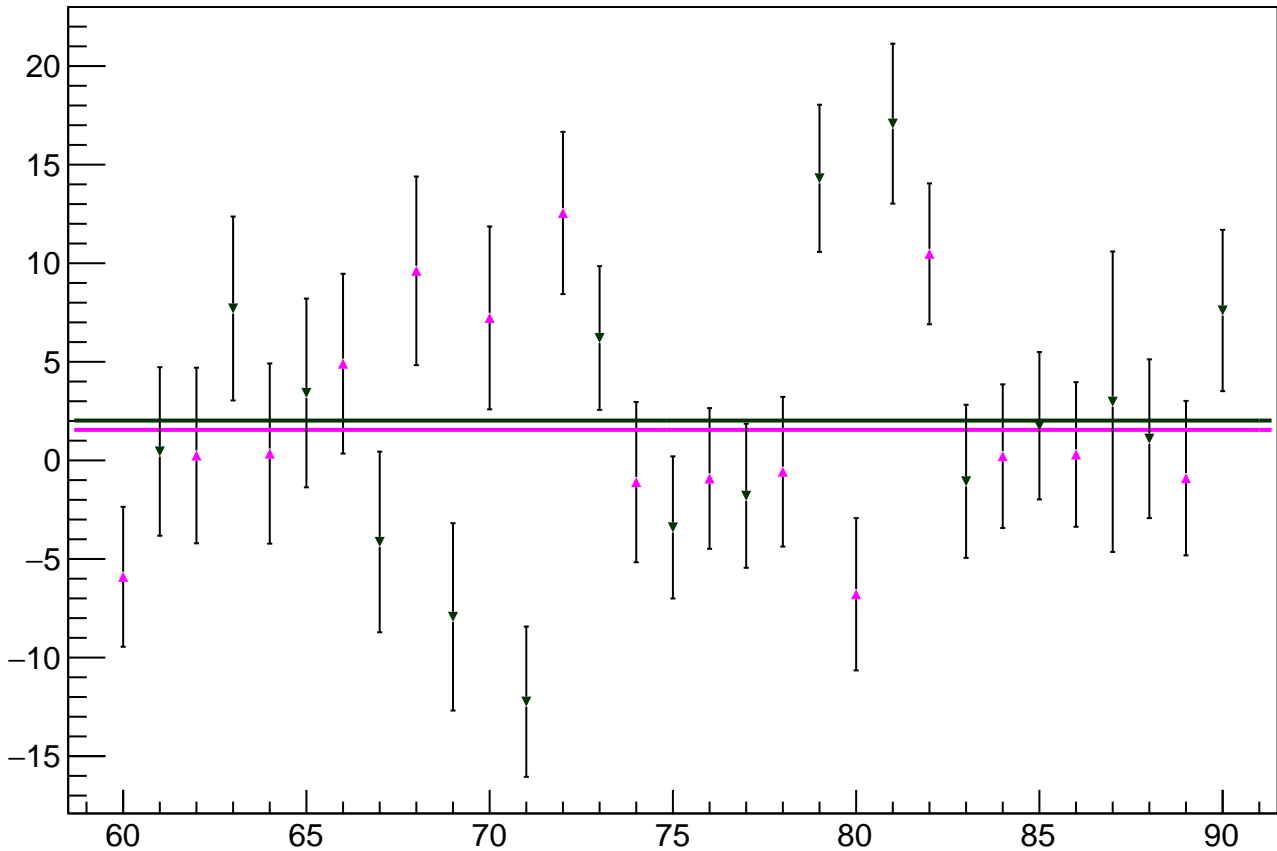
Left Out: 4889.479+/-1.275  $\chi^2$ /NDF:409193.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4866.450+/-1.262  $\chi^2$ /NDF: 327660.8/14

Left In: 4866.450+/-1.262  $\chi^2$ /NDF:327660.8/14

# diff\_bpm12Y\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.021+/-1.031  $\chi^2/\text{NDF}$ : 53.8/15

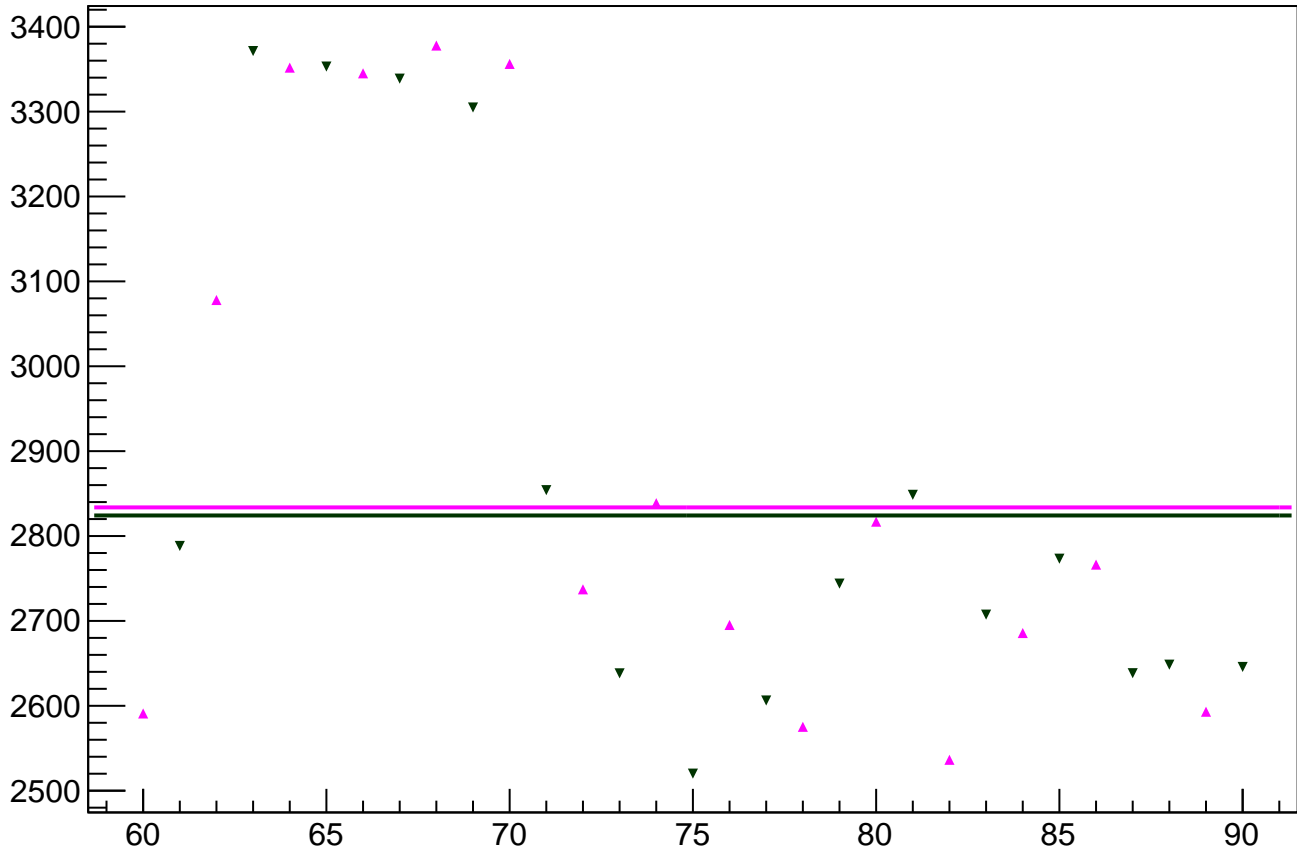
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.548+/-1.029  $\chi^2/\text{NDF}$ : 29.4/14

2.021+/-1.031  $\chi^2/\text{NDF}$ : 53.8/15

1.548+/-1.029  $\chi^2/\text{NDF}$ : 29.4/14

# diff\_bpm12Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2824.223+/-0.729  $\chi^2$ /NDF: 136421.1/15

Left Out: 2824.223+/-0.729  $\chi^2$ /NDF: 136421.1/15

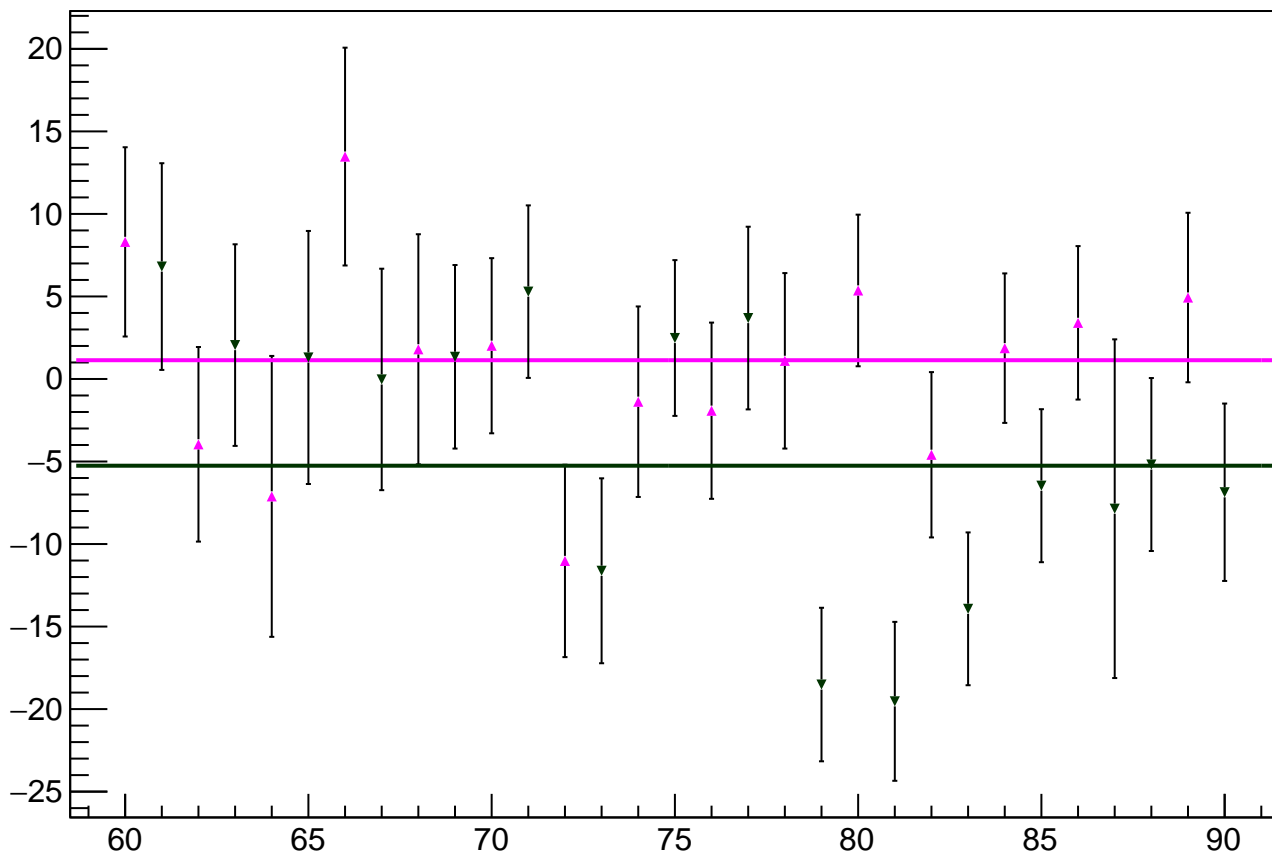
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2833.724+/-0.728  $\chi^2$ /NDF: 156304.1/14

Left In: 2833.724+/-0.728  $\chi^2$ /NDF: 156304.1/14



# diff\_bpm16X\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -5.255+/-1.370  $\chi^2/\text{NDF}$ : 39.2/15

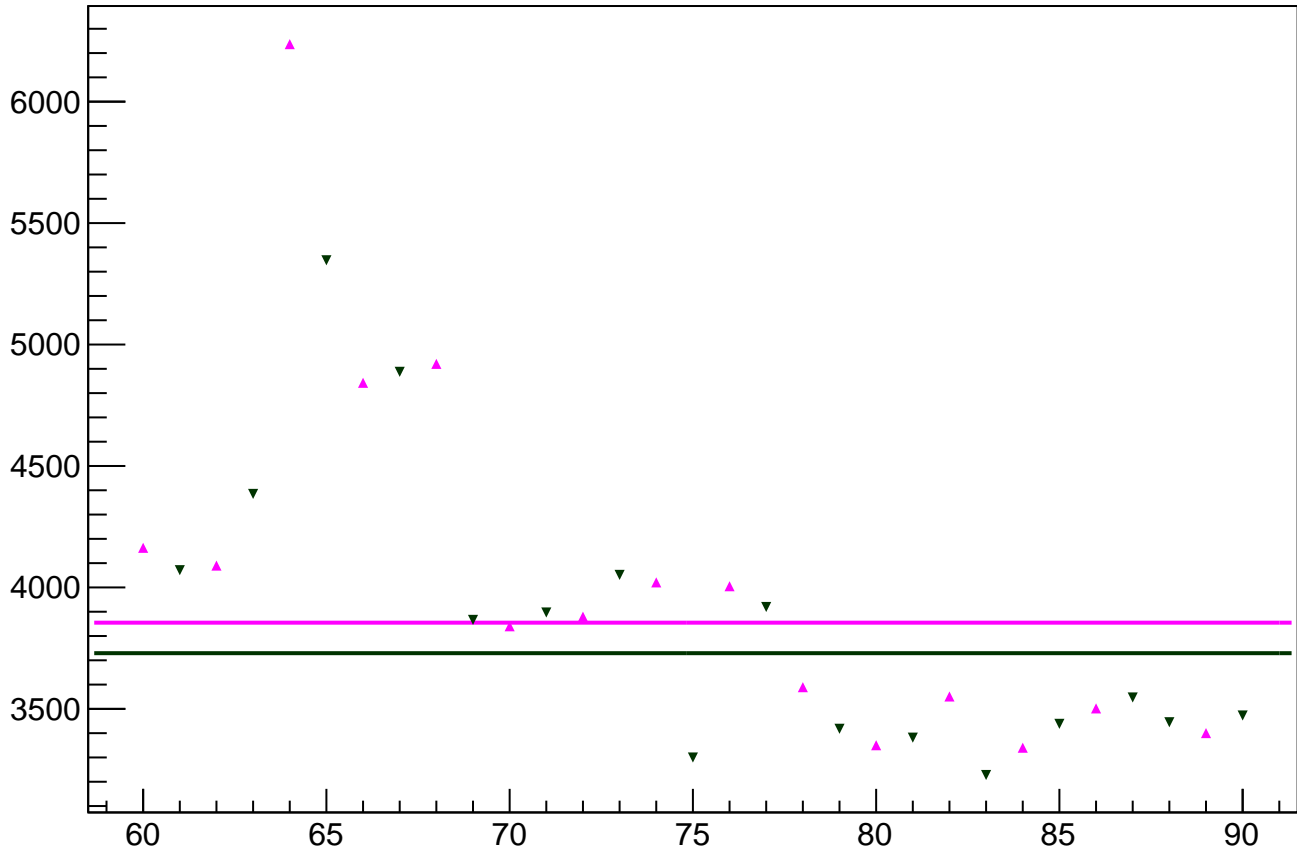
-5.255+/-1.370  $\chi^2/\text{NDF}$ : 39.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.137+/-1.411  $\chi^2/\text{NDF}$ : 14.6/14

Left In: 1.137+/-1.411  $\chi^2/\text{NDF}$ : 14.6/14

# diff\_bpm16X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3729.309+/-0.968  $\chi^2$ /NDF:268347.6/15

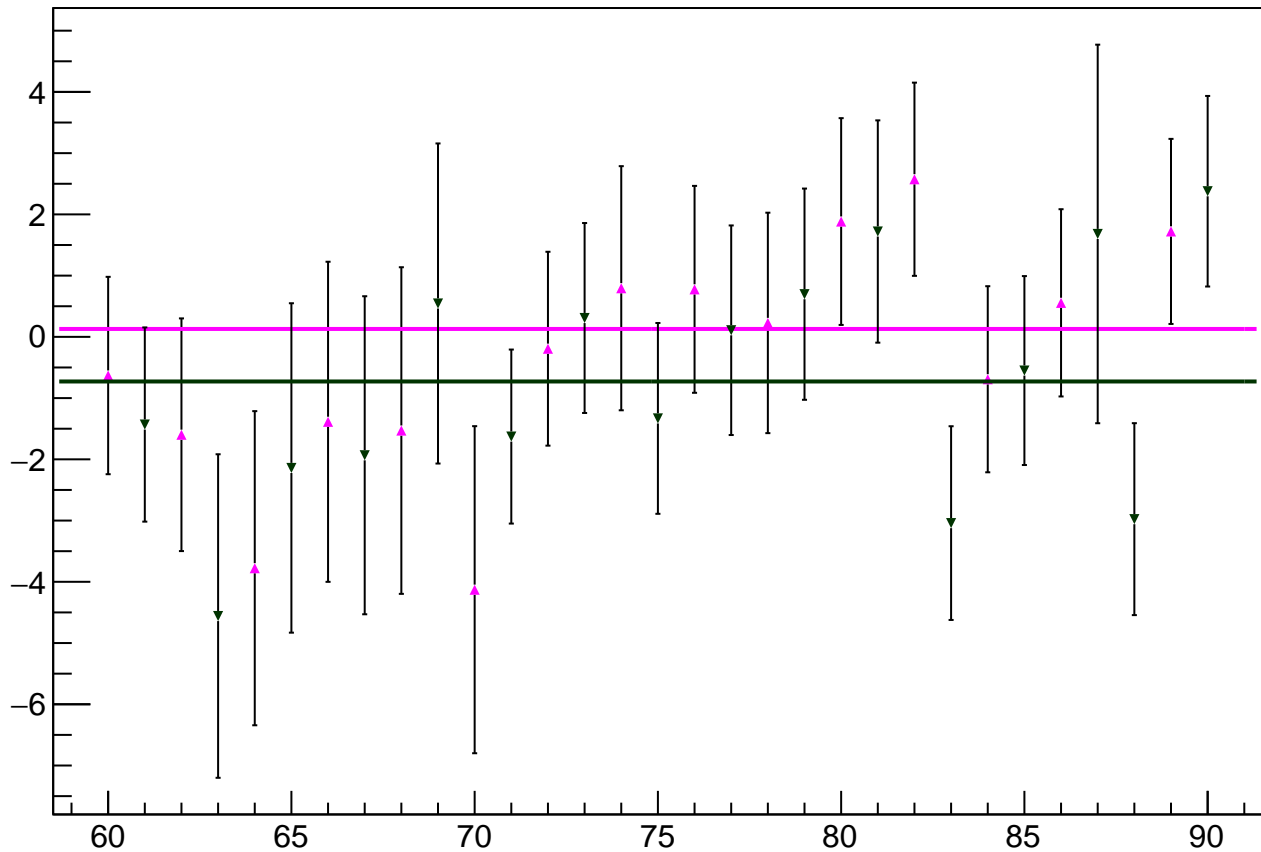
3729.309+/-0.968  $\chi^2$ /NDF: 268347.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3854.916+/-0.998  $\chi^2$ /NDF:350007.3/14

3854.916+/-0.998  $\chi^2$ /NDF: 350007.3/14

# diff\_bpm16Y\_mean vs slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.729 $\pm$ 0.446  $\chi^2$ /NDF: 15.6/15

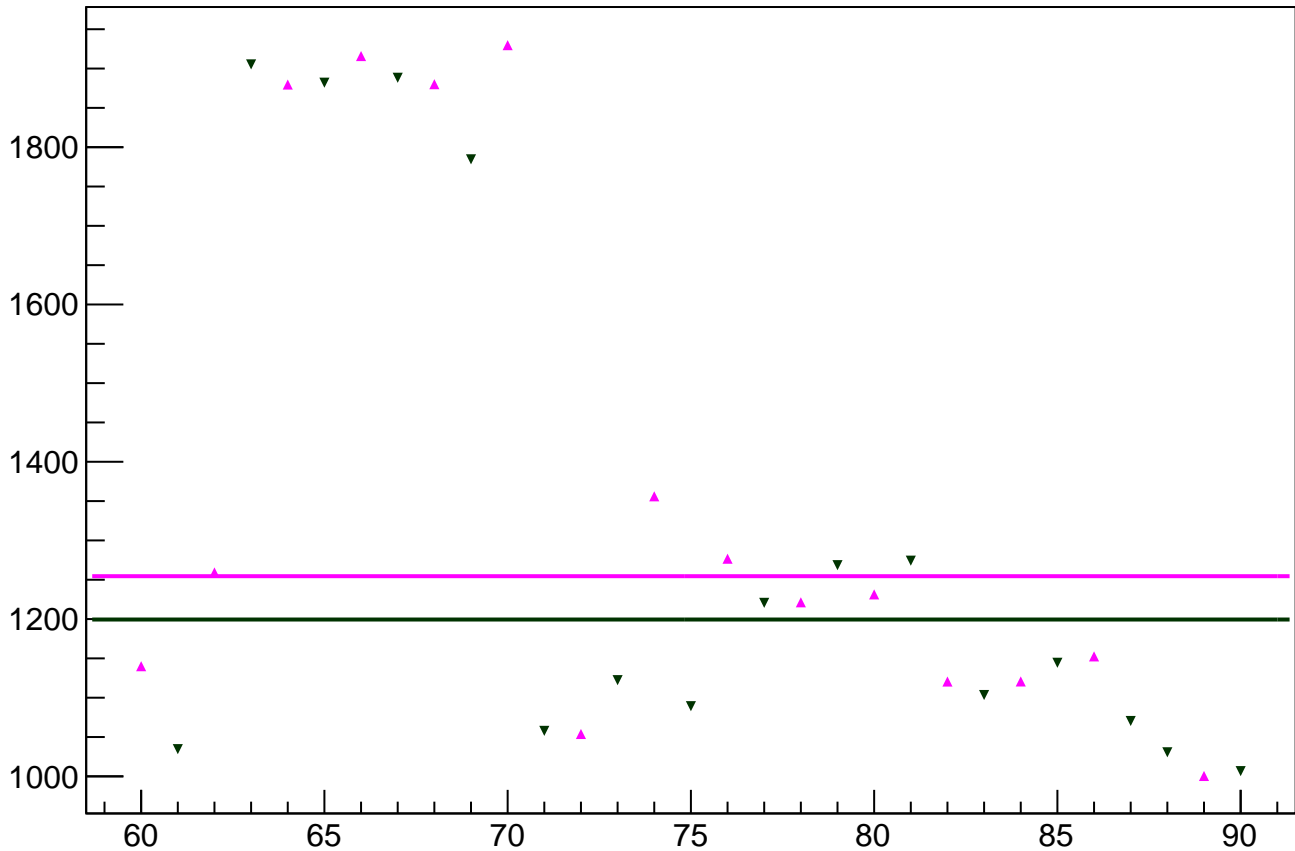
-0.729 $\pm$ 0.446  $\chi^2$ /NDF: 15.6/15

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.129 $\pm$ 0.466  $\chi^2$ /NDF: 11.9/14

Left In: 0.129 $\pm$ 0.466  $\chi^2$ /NDF: 11.9/14

# diff\_bpm16Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1199.413+/-0.316  $\chi^2$ /NDF:643242.6/15

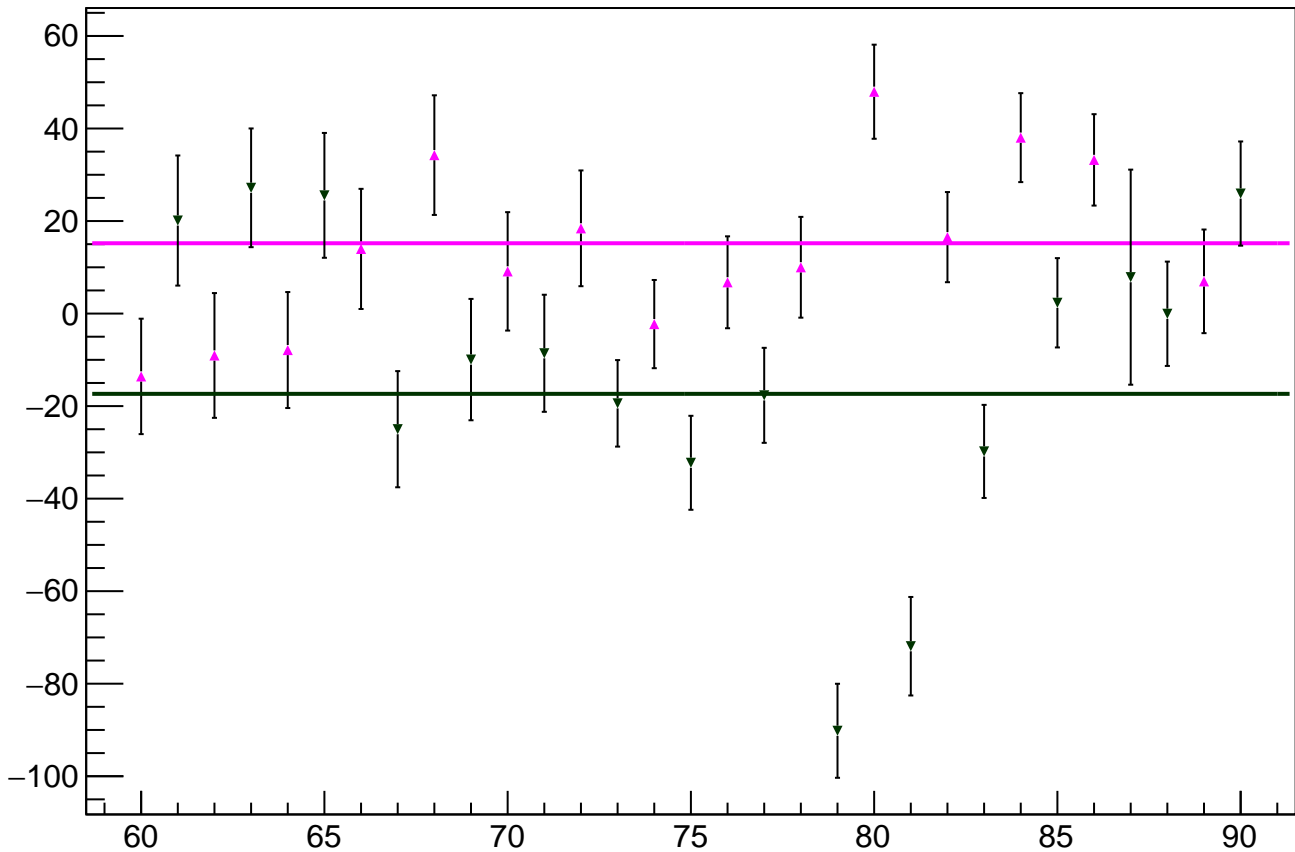
1199.413+/-0.316  $\chi^2$ /NDF: 643242.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1254.514+/-0.330  $\chi^2$ /NDF: 628958.5/14

Left In: 1254.514+/-0.330  $\chi^2$ /NDF:628958.5/14

# diff\_bpm0l01X\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -17.352+/-2.859  $\chi^2$ /NDF:134.2/15

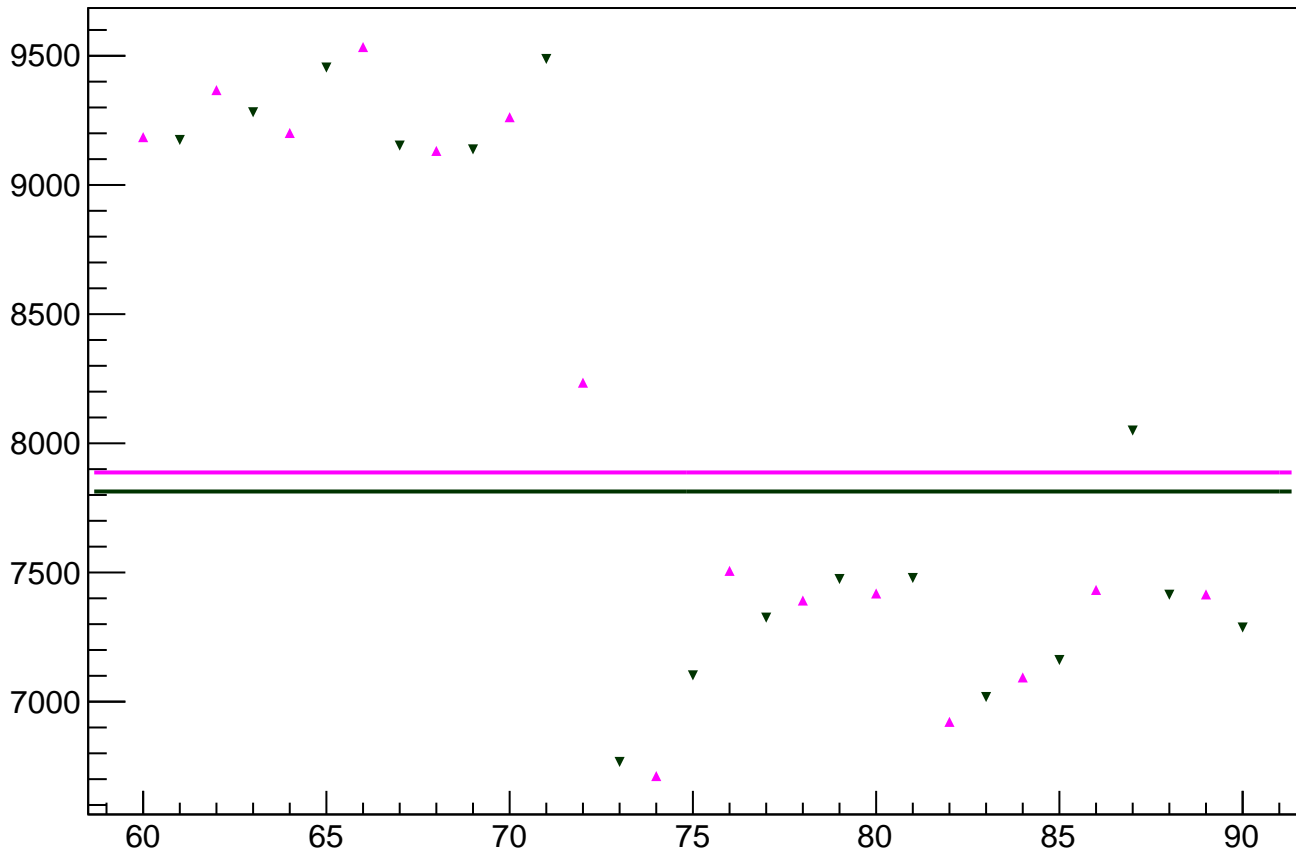
-17.352+/-2.859  $\chi^2$ /NDF: 134.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

15.200+/-2.869  $\chi^2$ /NDF: 38.6/14

Left In: 15.200+/-2.869  $\chi^2$ /NDF:38.6/14

# diff\_bpm0l01X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 7813.507+/-2.021  $\chi^2$ /NDF:224987.0/15

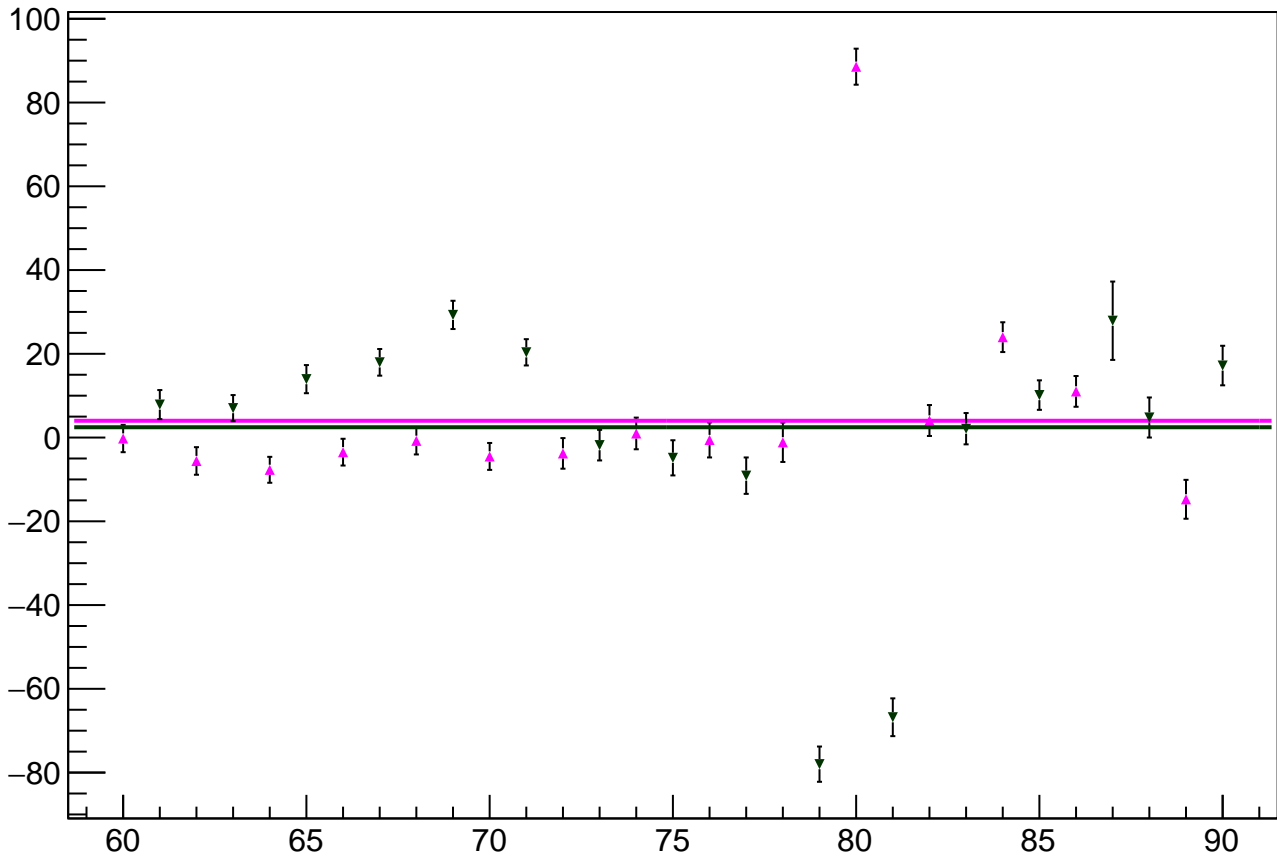
7813.507+/-2.021  $\chi^2$ /NDF: 224987.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

7887.203+/-2.029  $\chi^2$ /NDF: 225834.2/14

Left In: 7887.203+/-2.029  $\chi^2$ /NDF:225834.2/14

# diff\_bpm0l01Y\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.461+/-0.952  $\chi^2/\text{NDF}$ : 770.0/15

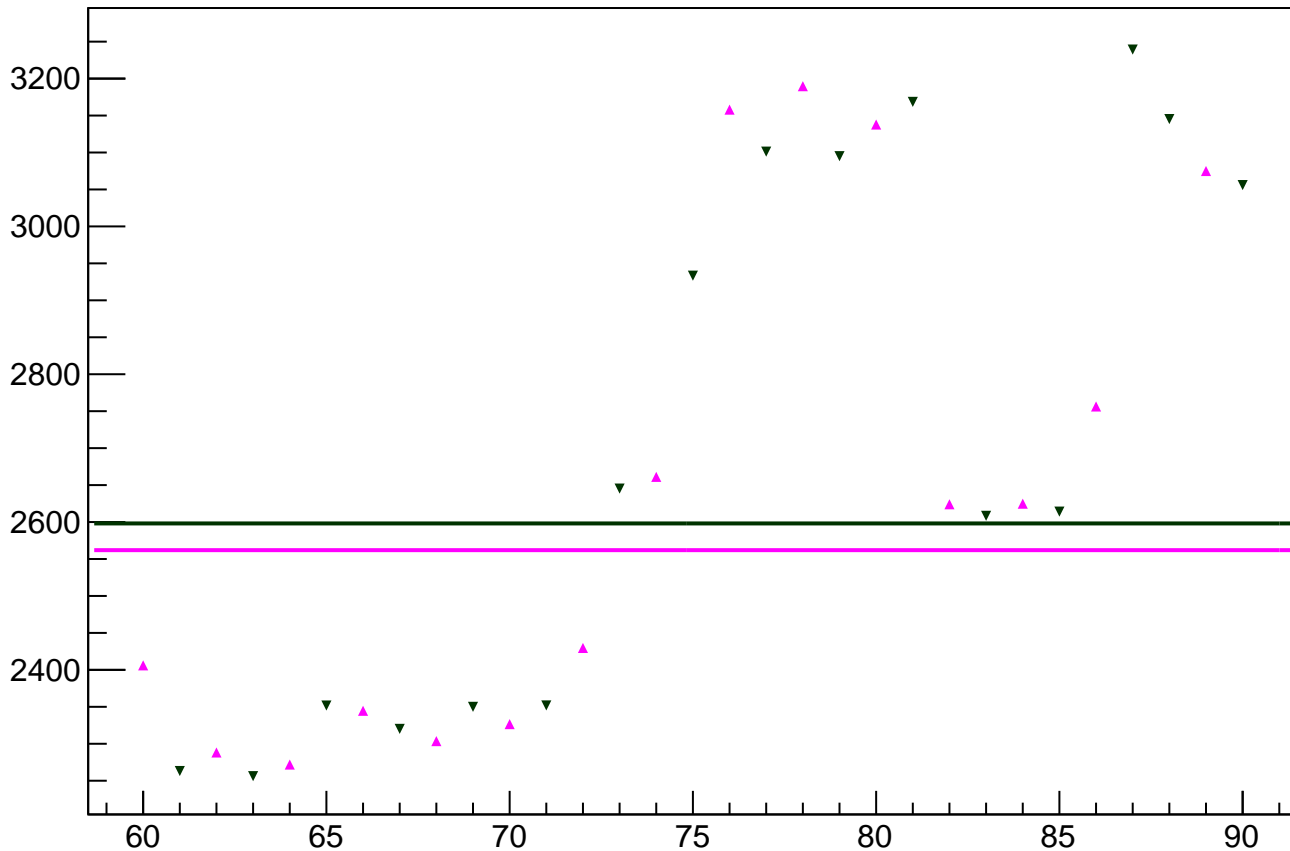
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.010+/-0.931  $\chi^2/\text{NDF}$ : 484.4/14

2.461+/-0.952  $\chi^2/\text{NDF}$ : 770.0/15

4.010+/-0.931  $\chi^2/\text{NDF}$ : 484.4/14

# diff\_bpm0l01Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 2598.122+/-0.673  $\chi^2$ /NDF:245880.7/15

2598.122+/-0.673  $\chi^2$ /NDF: 245880.7/15

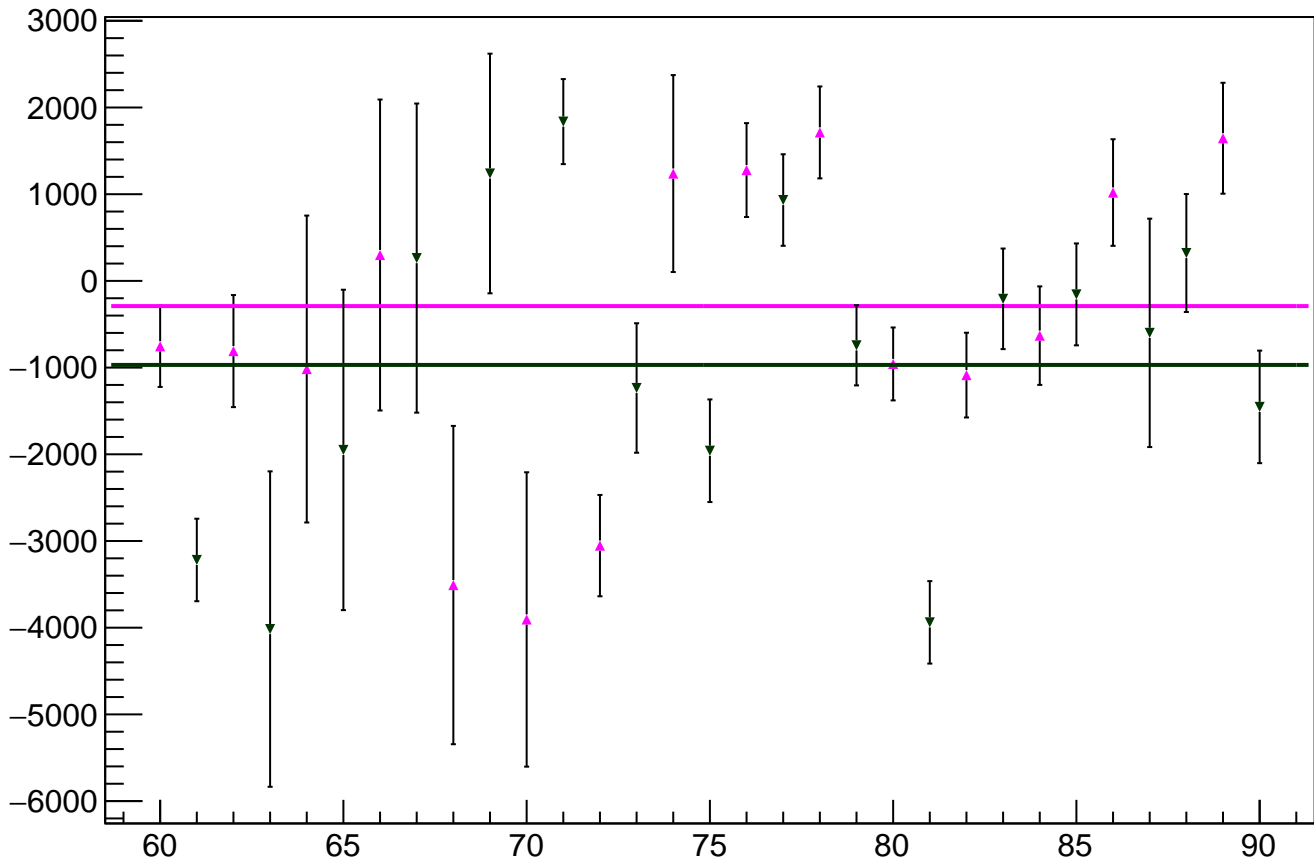
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2561.968+/-0.659  $\chi^2$ /NDF: 215776.5/14

Left In: 2561.968+/-0.659  $\chi^2$ /NDF:215776.5/14



# asym\_sam1\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -969.187+/-161.539  $\chi^2$ /NDF:124.2/15

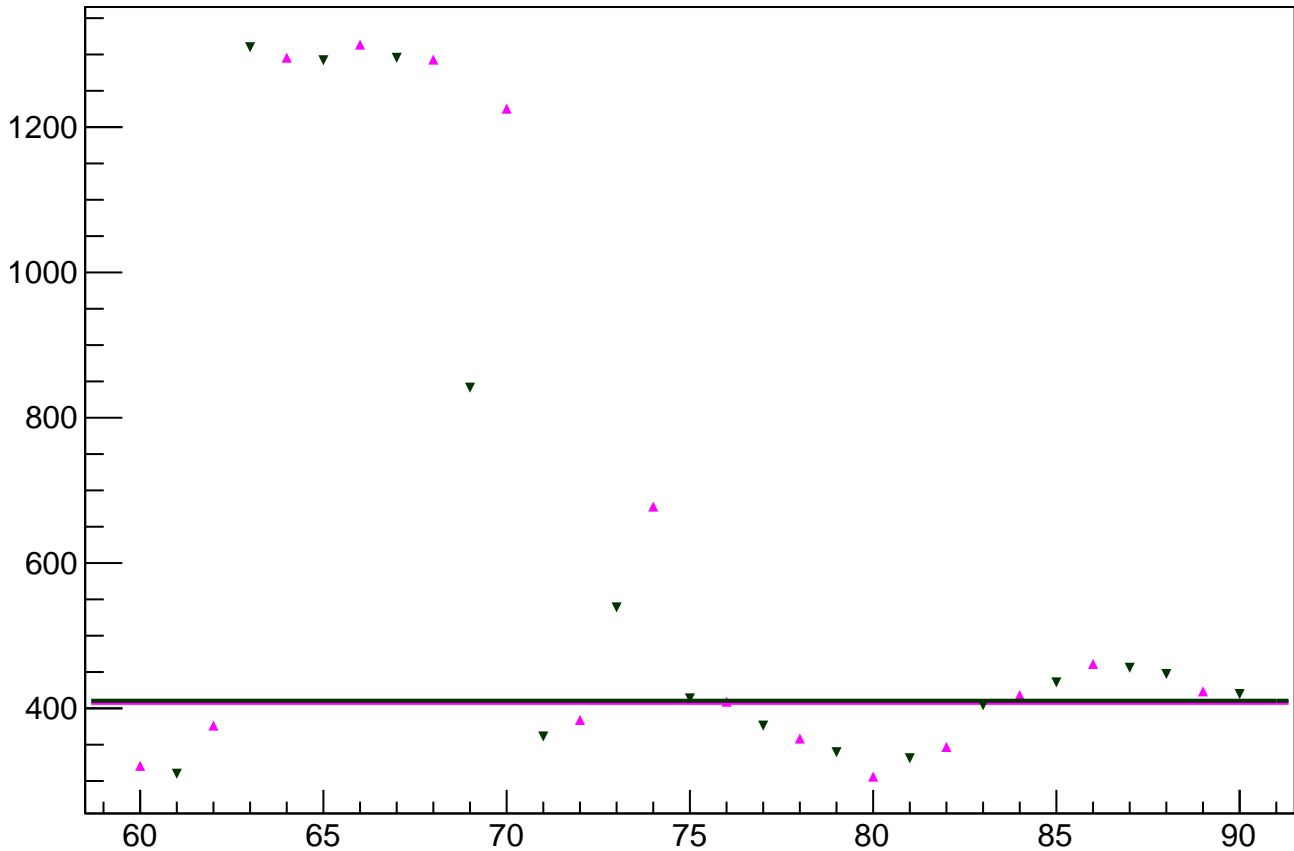
-969.187+/-161.539  $\chi^2$ /NDF: 124.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-290.606+/-164.596  $\chi^2$ /NDF: 75.6/14

Left In: -290.606+/-164.596  $\chi^2$ /NDF:75.6/14

# asym\_sam1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

410.533+/-0.114  $\chi^2$ /NDF: 1923142.6/15

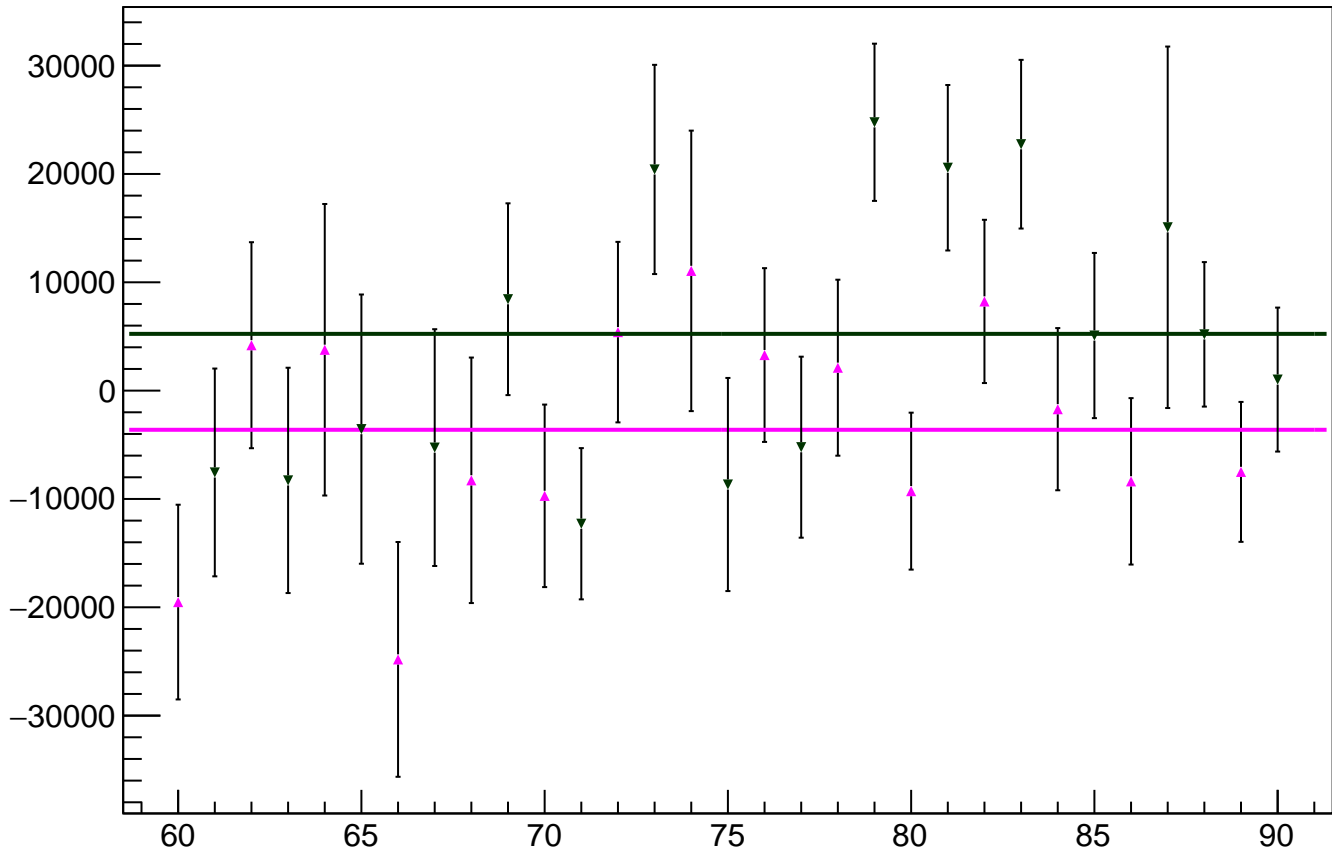
Left Out: 410.533+/-0.114  $\chi^2$ /NDF: 1923142.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

407.589+/-0.116  $\chi^2$ /NDF: 2314223.6/14

Left In: 407.589+/-0.116  $\chi^2$ /NDF: 2314223.6/14

# asym\_sam2\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5239.356+/-2121.484  $\chi^2$ /NDF: 34.4/15

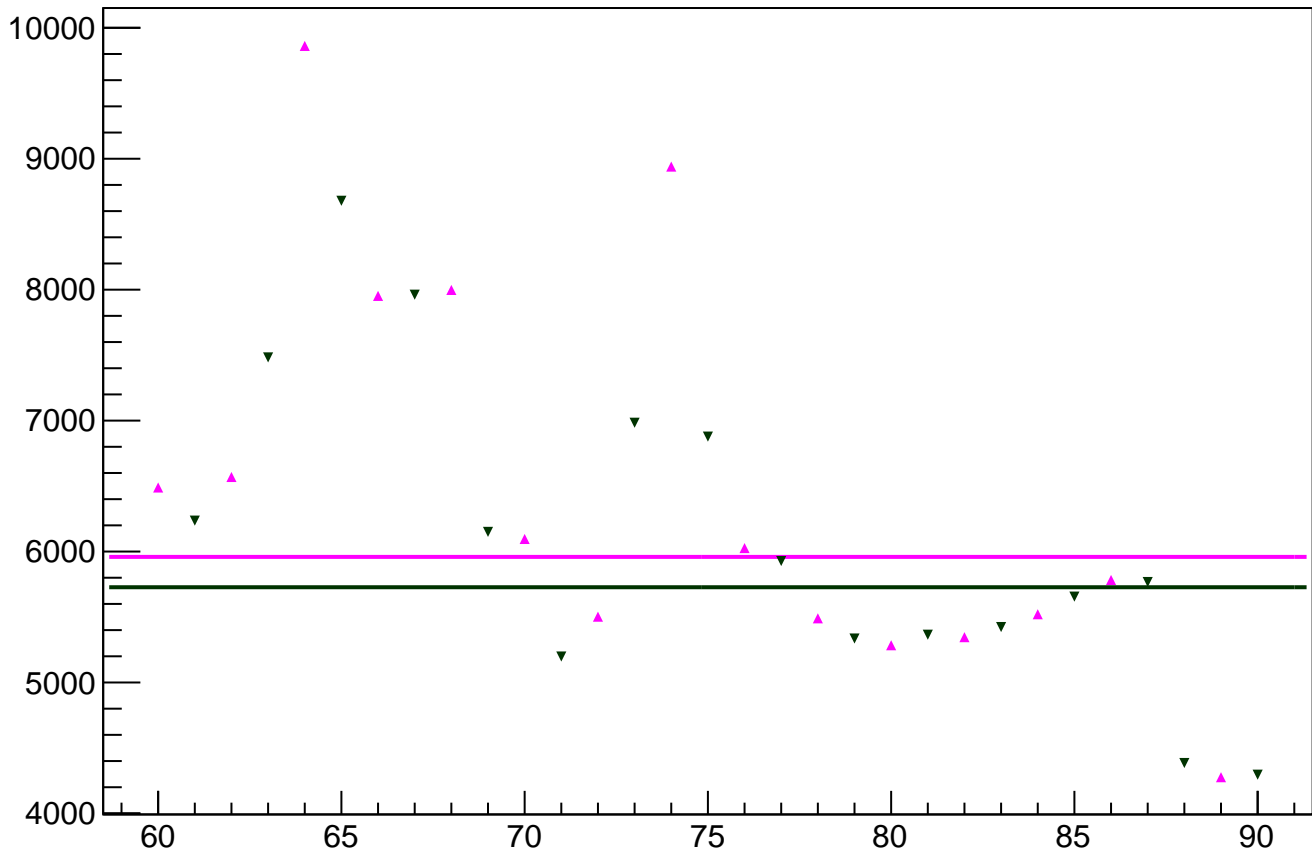
Left Out: 5239.356+/-2121.484  $\chi^2$ /NDF:34.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3614.879+/-2203.972  $\chi^2$ /NDF: 16.2/14

Left In: -3614.879+/-2203.972  $\chi^2$ /NDF:16.2/14

# asym\_sam2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5727.399+/-1.500  $\chi^2$ /NDF:524856.9/15

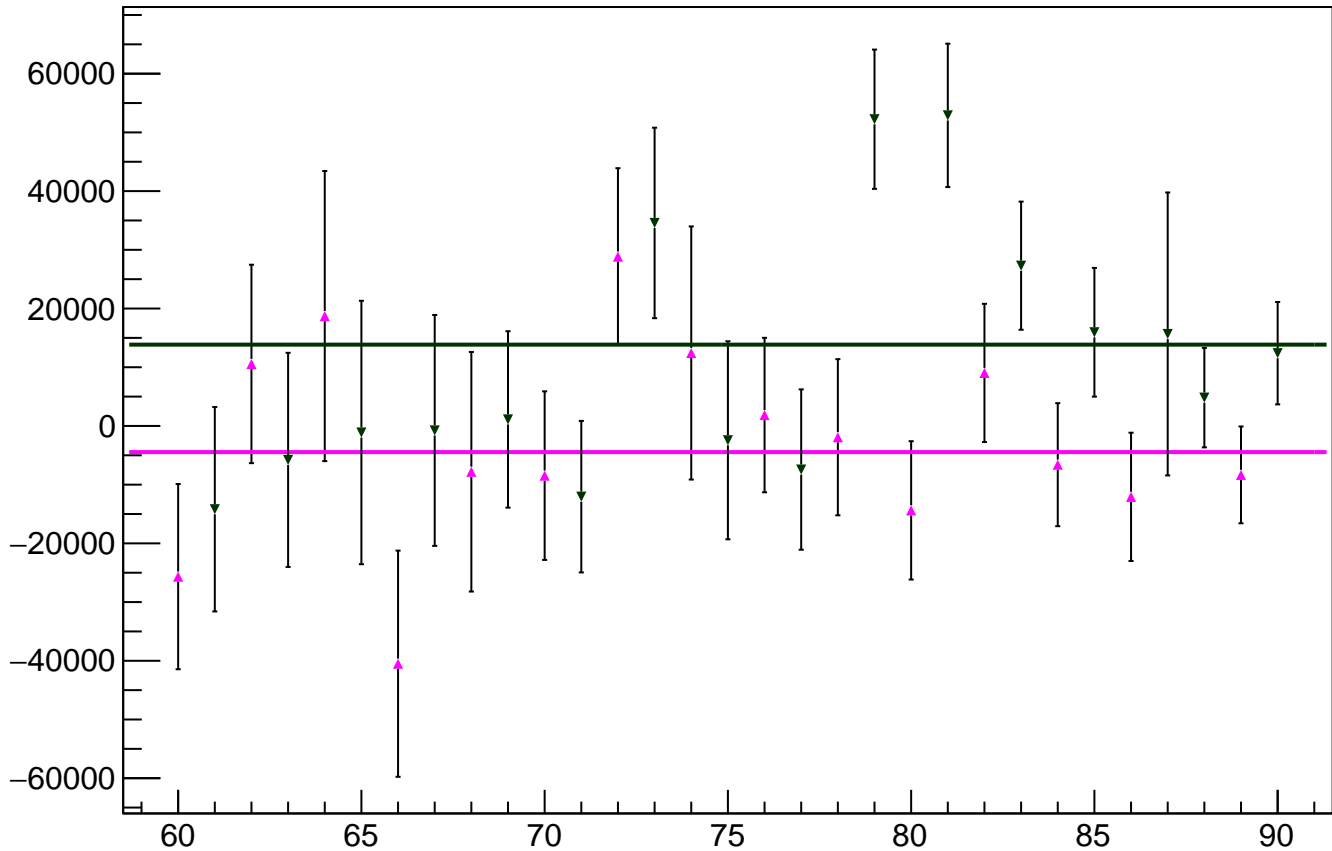
5727.399+/-1.500  $\chi^2$ /NDF: 524856.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5959.170+/-1.558  $\chi^2$ /NDF: 609463.6/14

Left In: 5959.170+/-1.558  $\chi^2$ /NDF:609463.6/14

# asym\_sam3\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13849.286+/-3273.384  $\chi^2/\text{NDF}$ : 37.9/15

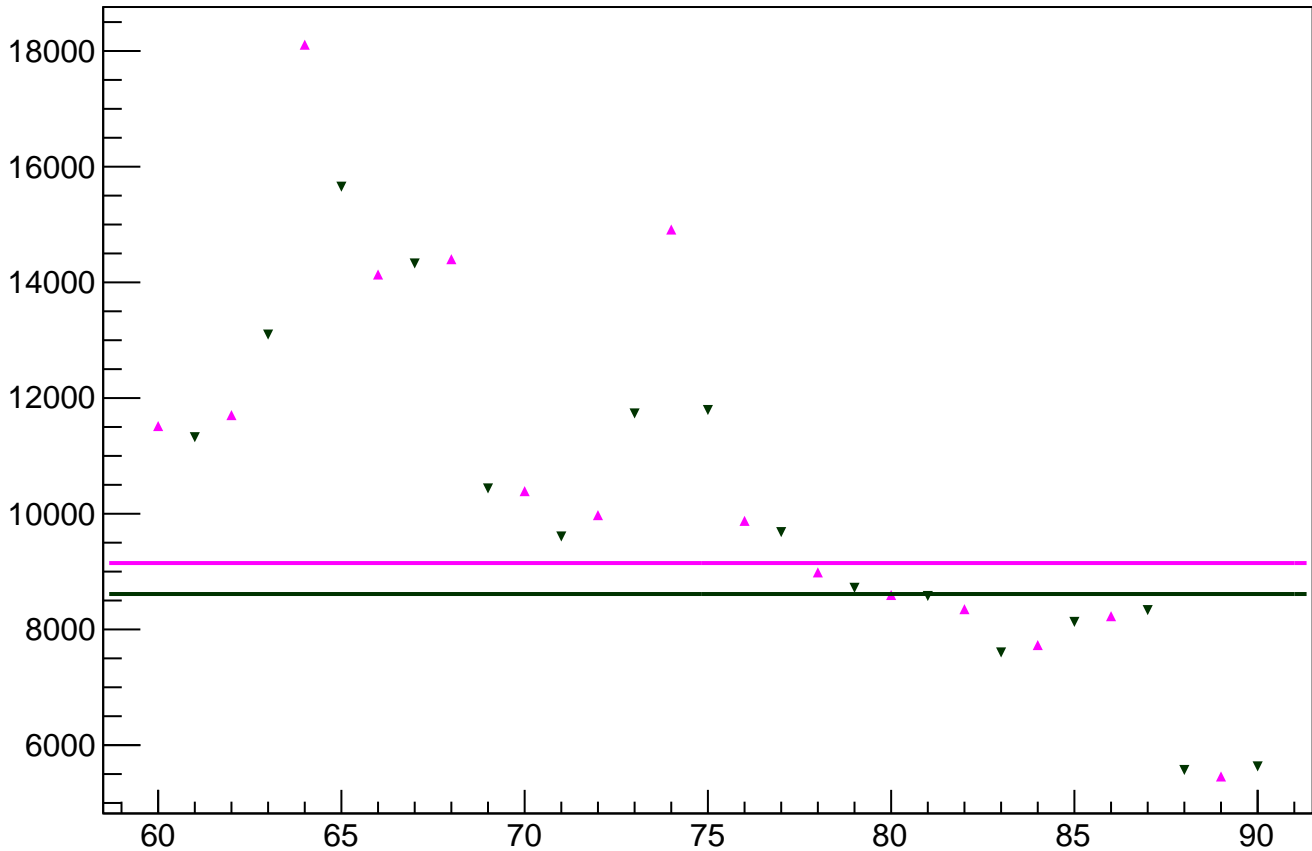
Left Out: 13849.286+/-3273.384  $\chi^2/\text{NDF}$ : 37.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4452.198+/-3455.950  $\chi^2/\text{NDF}$ : 15.6/14

Left In: -4452.198+/-3455.950  $\chi^2/\text{NDF}$ : 15.6/14

# asym\_sam3\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8612.434+/-2.315  $\chi^2$ /NDF:1247143.3/15

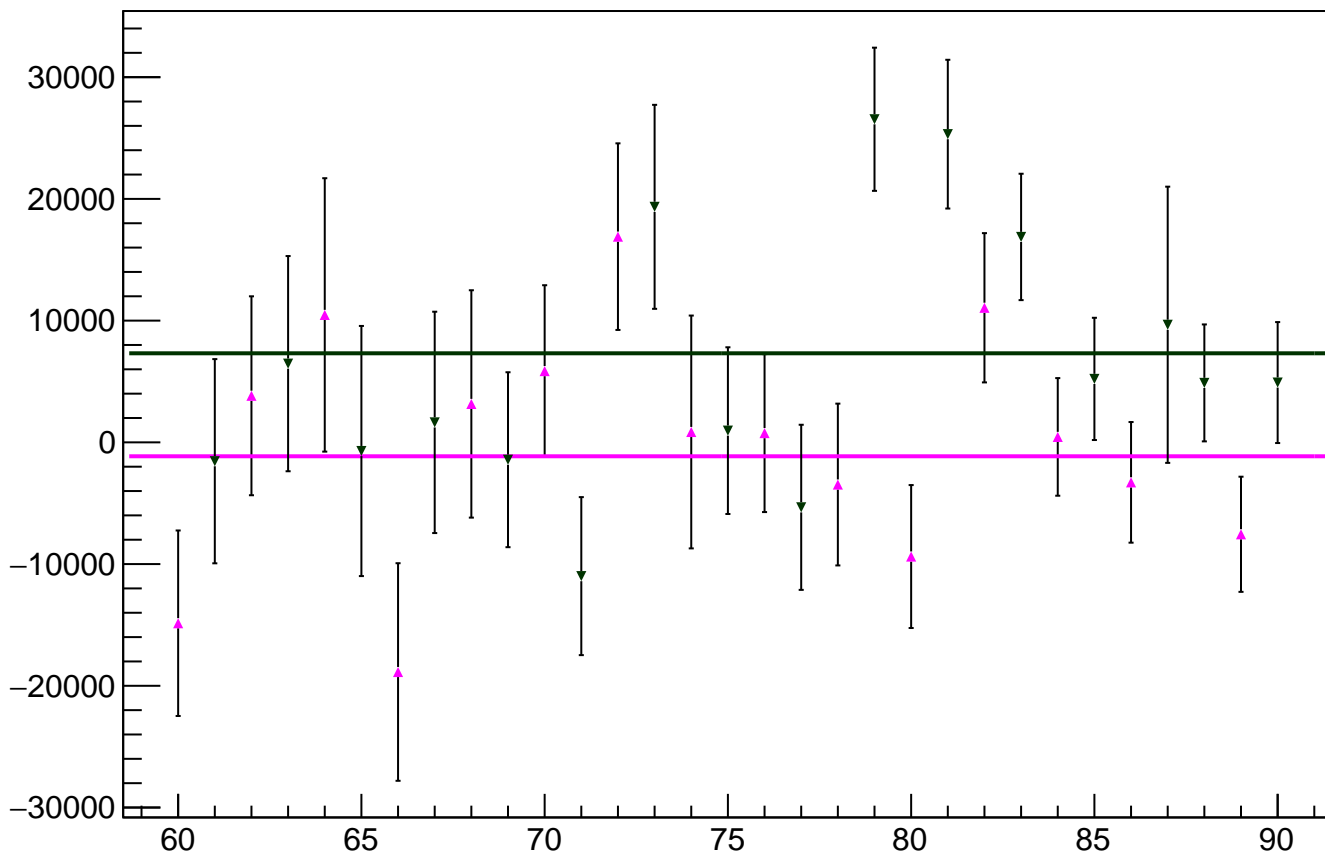
8612.434+/-2.315  $\chi^2$ /NDF: 1247143.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 9147.584+/-2.444  $\chi^2$ /NDF:1256235.0/14

9147.584+/-2.444  $\chi^2$ /NDF: 1256235.0/14

# asym\_sam4\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 7316.370+/-1637.185  $\chi^2$ /NDF:41.4/15

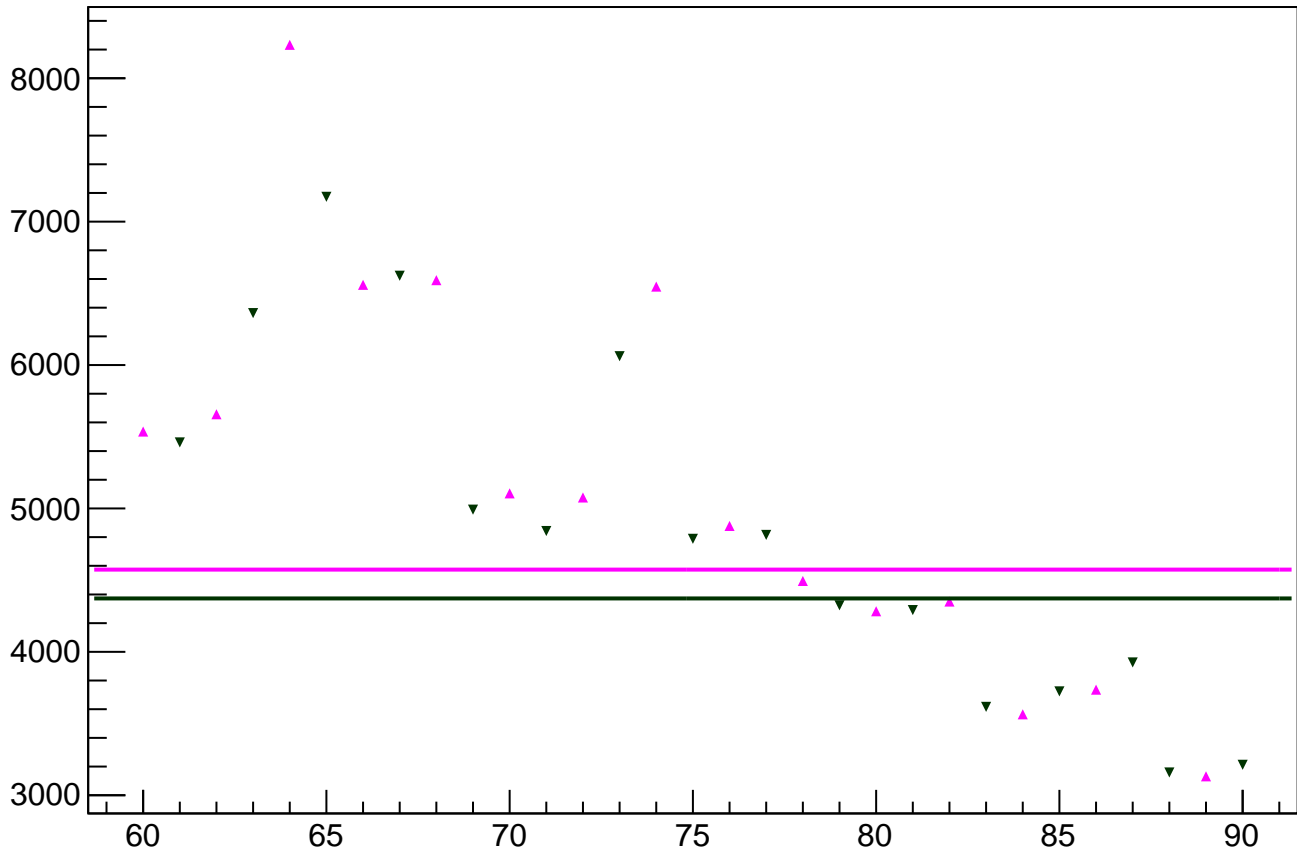
7316.370+/-1637.185  $\chi^2$ /NDF: 41.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1144.158+/-1708.936  $\chi^2$ /NDF: 23.7/14

Left In: -1144.158+/-1708.936  $\chi^2$ /NDF:23.7/14

# asym\_sam4\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4372.399+/-1.158  $\chi^2$ /NDF:844667.3/15

4372.399+/-1.158  $\chi^2$ /NDF: 844667.3/15

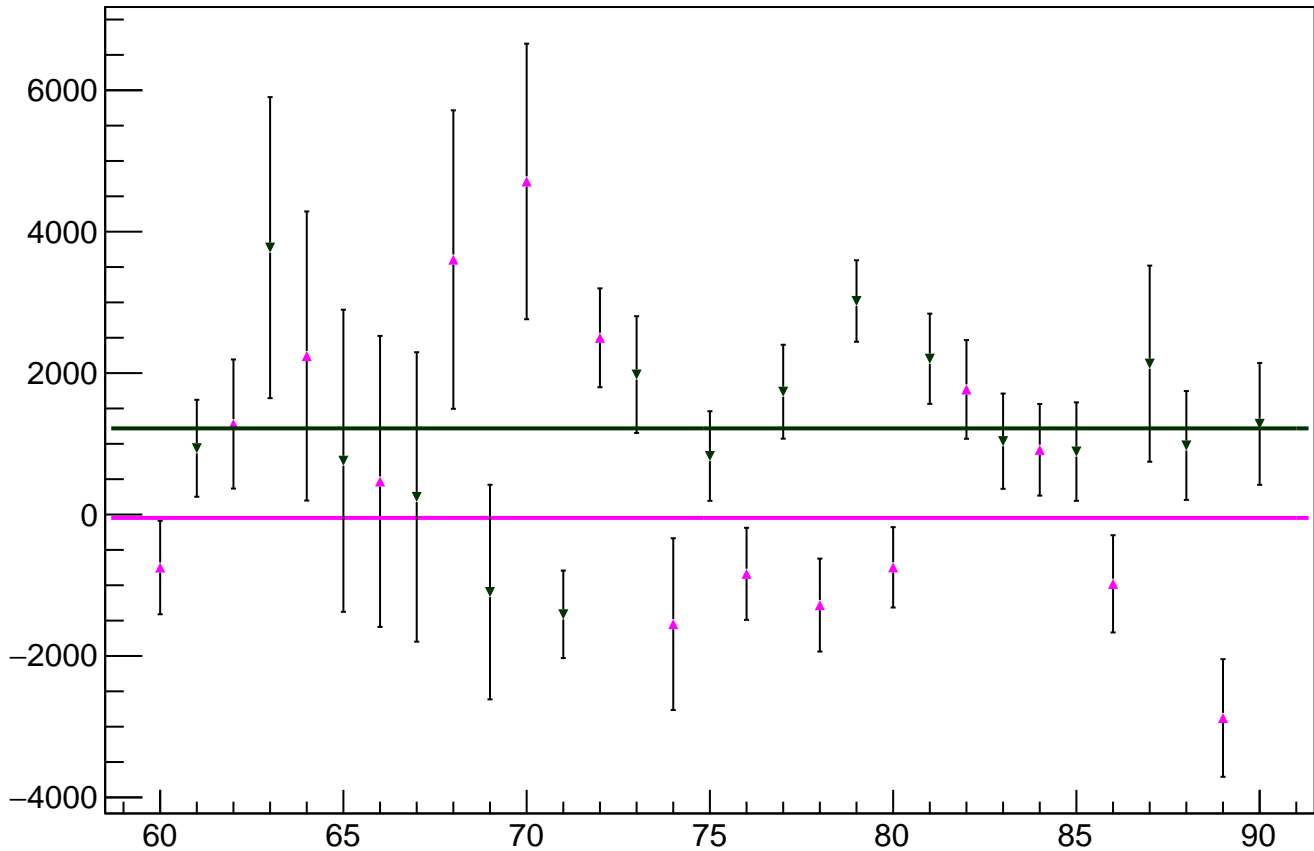
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 4573.452+/-1.208  $\chi^2$ /NDF:919062.0/14

4573.452+/-1.208  $\chi^2$ /NDF: 919062.0/14



# asym\_sam5\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1218.418+/-198.519  $\chi^2/\text{NDF}$ : 37.1/15

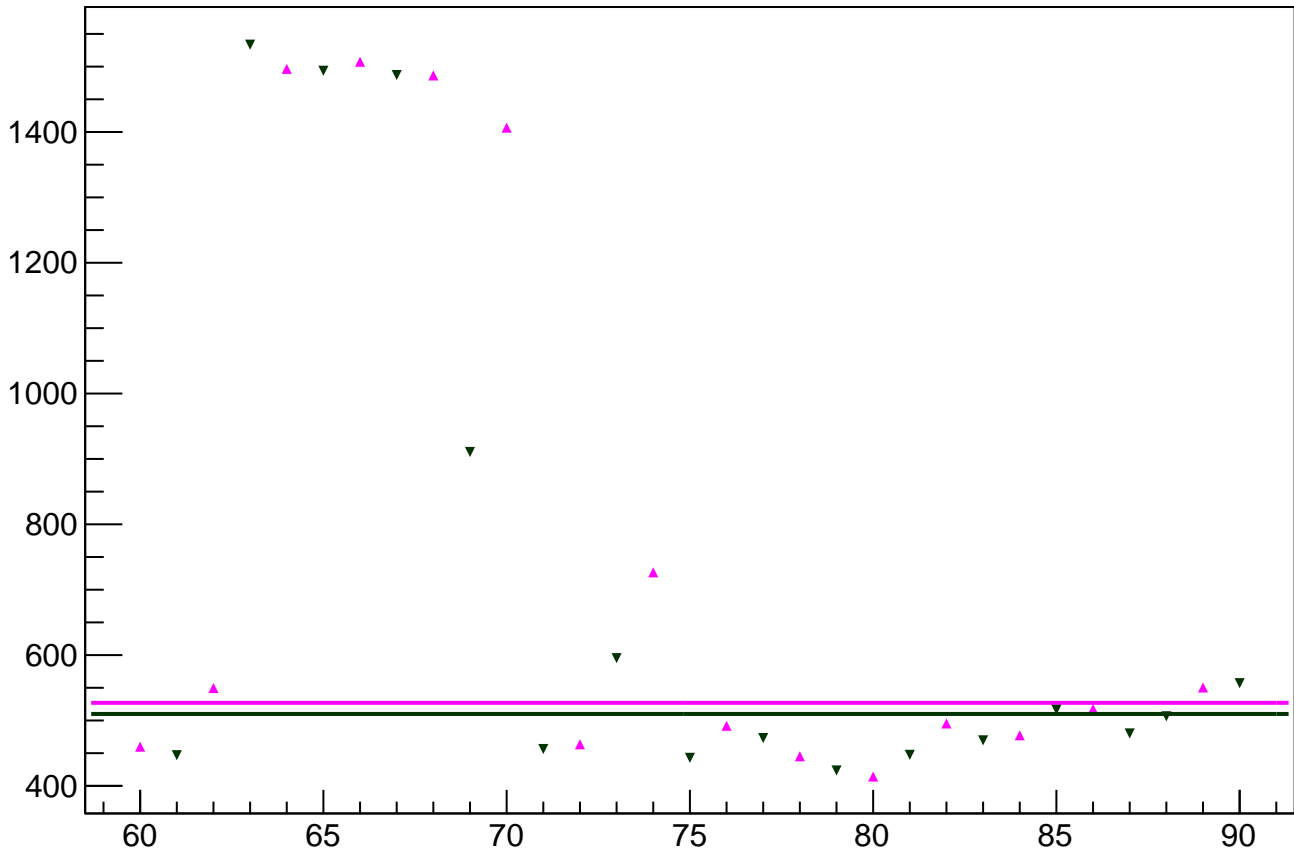
Left Out: 1218.418+/-198.519  $\chi^2/\text{NDF}$ : 37.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-47.477+/-208.735  $\chi^2/\text{NDF}$ : 57.2/14

Left In: -47.477+/-208.735  $\chi^2/\text{NDF}$ : 57.2/14

# asym\_sam5\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

509.998+/-0.140  $\chi^2$ /NDF: 1642237.7/15

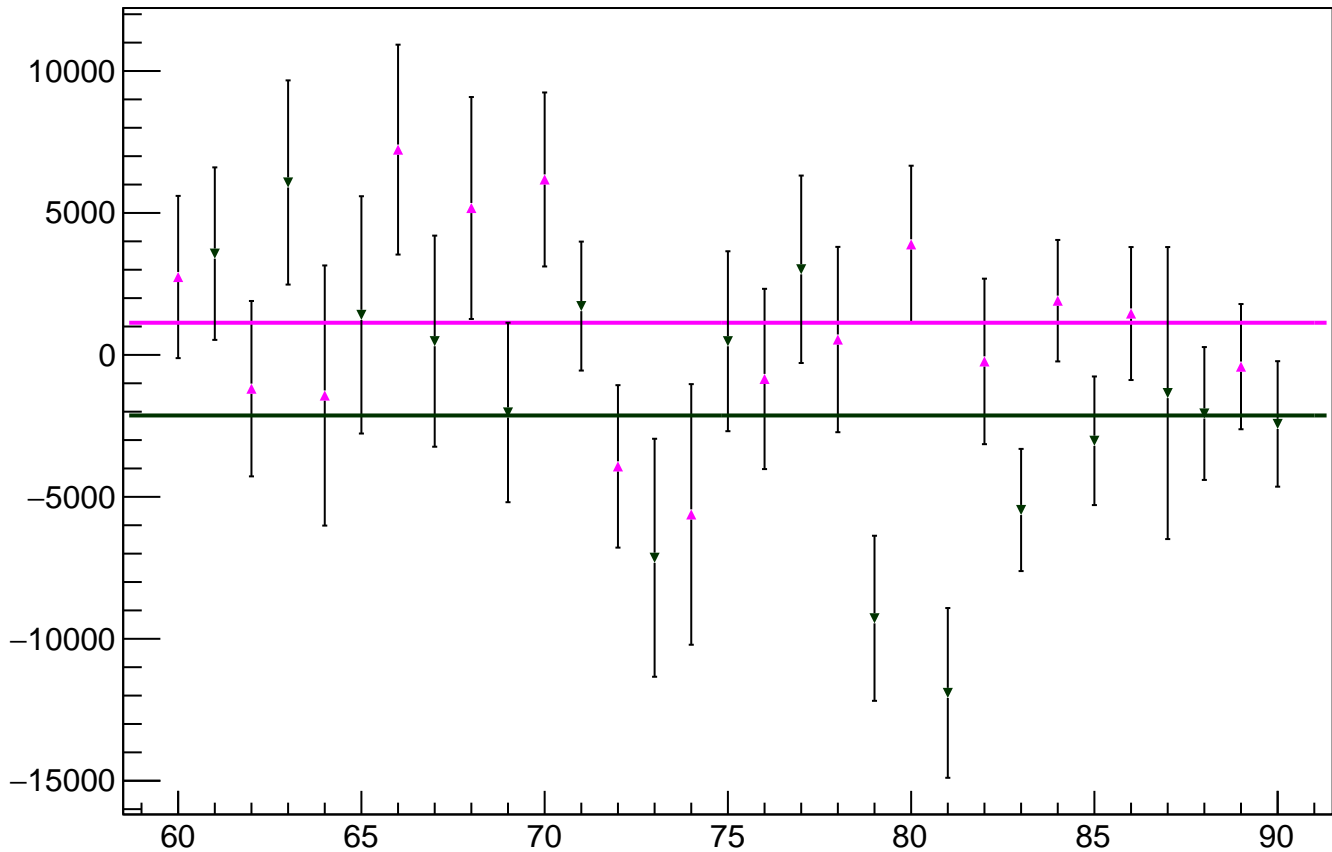
Left Out: 509.998+/-0.140  $\chi^2$ /NDF: 1642237.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

526.998+/-0.148  $\chi^2$ /NDF: 1950499.3/14

Left In: 526.998+/-0.148  $\chi^2$ /NDF: 1950499.3/14

# asym\_sam6\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2133.311+/-721.010  $\chi^2/\text{NDF}$ : 36.7/15

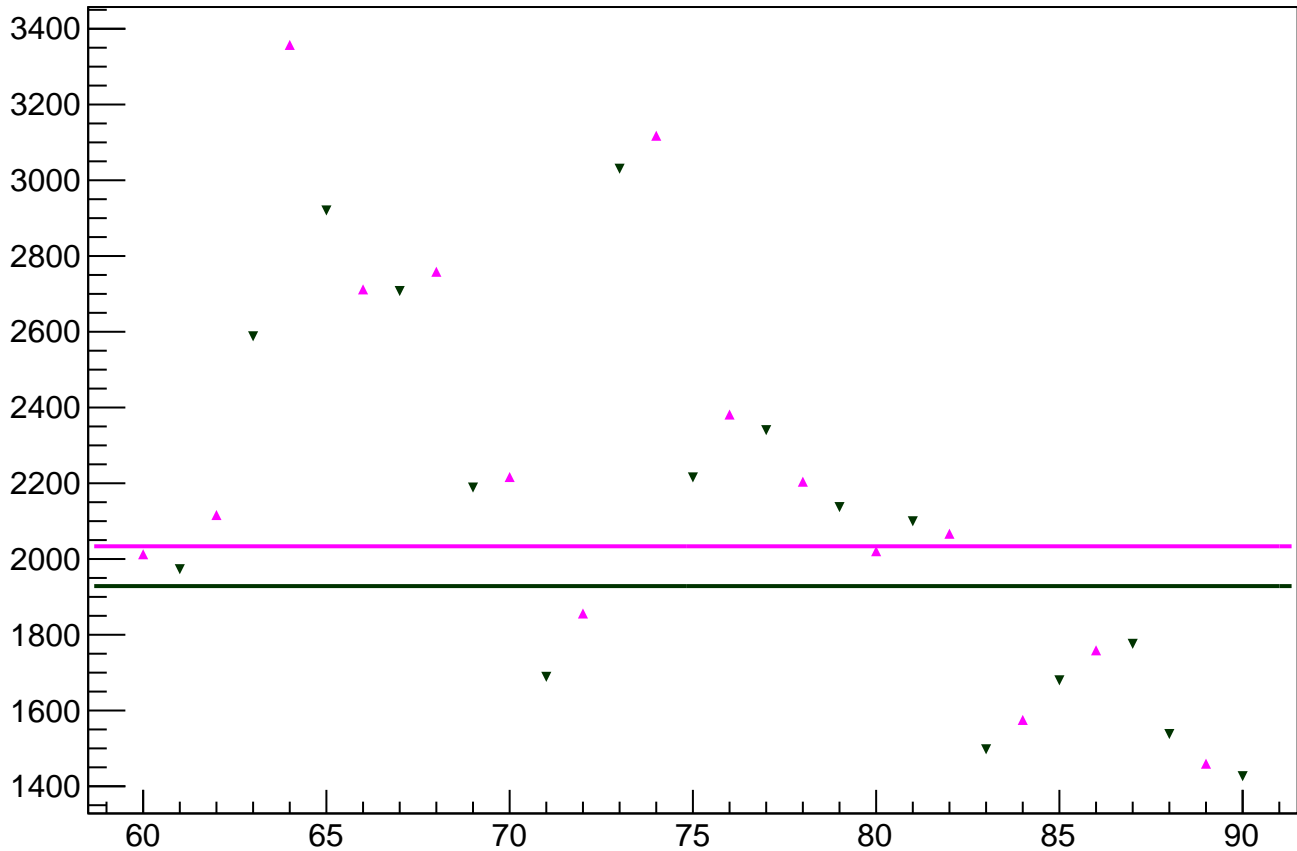
Left Out: -2133.311+/-721.010  $\chi^2/\text{NDF}$ : 36.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1132.698+/-758.714  $\chi^2/\text{NDF}$ : 15.3/14

Left In: 1132.698+/-758.714  $\chi^2/\text{NDF}$ : 15.3/14

# asym\_sam6\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1928.513+/-0.510  $\chi^2$ /NDF:771468.7/15

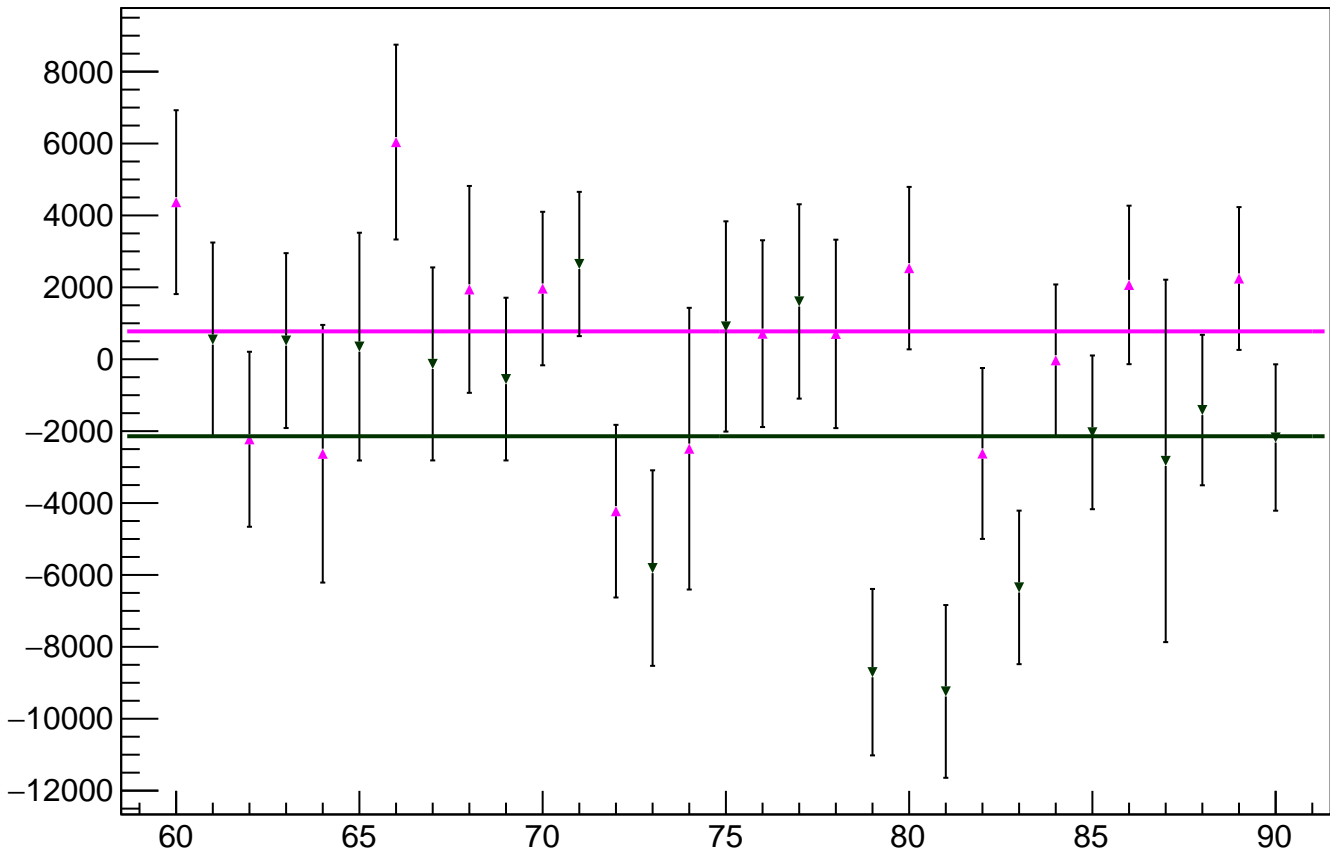
1928.513+/-0.510  $\chi^2$ /NDF: 771468.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2033.599+/-0.536  $\chi^2$ /NDF: 715600.2/14

Left In: 2033.599+/-0.536  $\chi^2$ /NDF:715600.2/14

# asym\_sam7\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2142.323+/-610.399  $\chi^2/\text{NDF}$ : 35.2/15

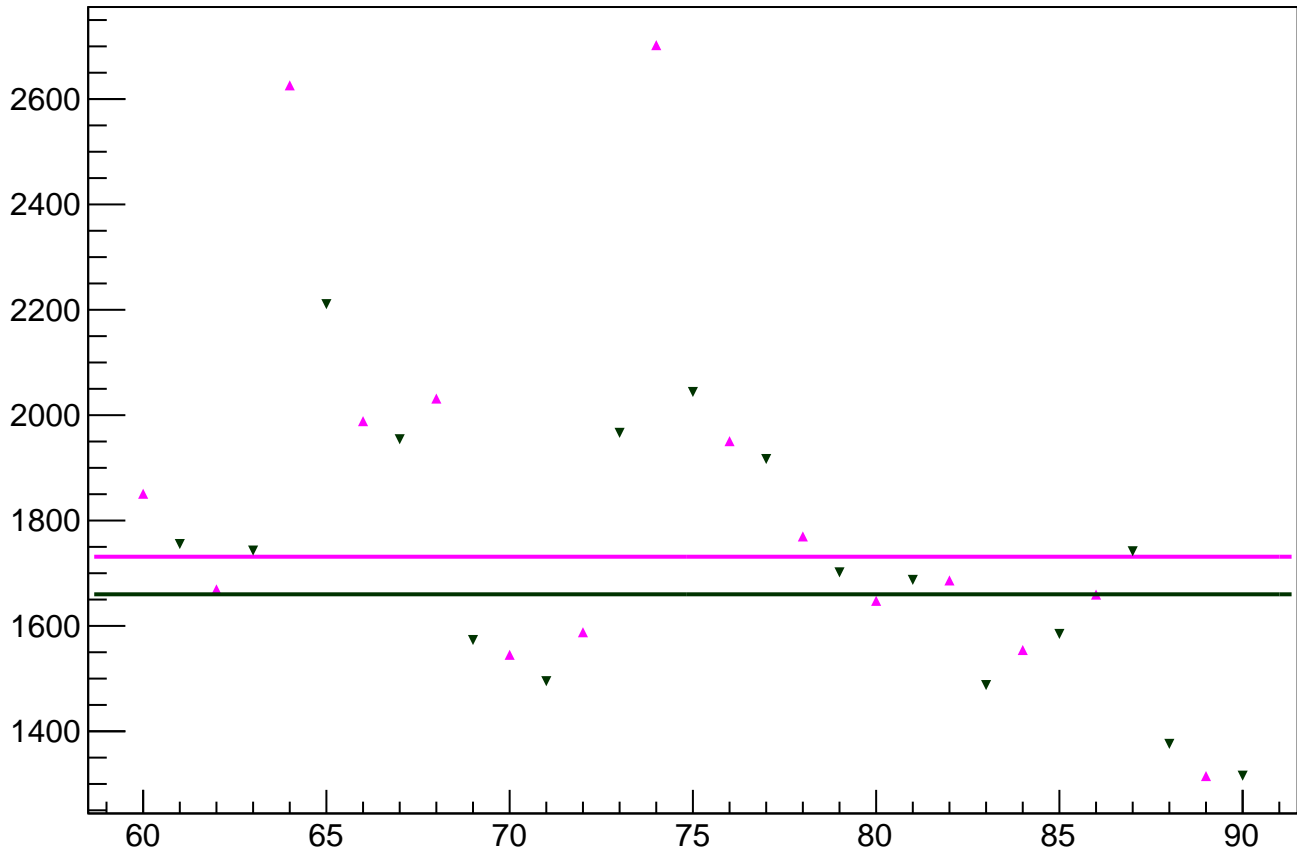
-2142.323+/-610.399  $\chi^2/\text{NDF}$ : 35.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

774.867+/-636.865  $\chi^2/\text{NDF}$ : 17.4/14

Left In: 774.867+/-636.865  $\chi^2/\text{NDF}$ : 17.4/14

# asym\_sam7\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1659.982+/-0.432  $\chi^2$ /NDF:294611.3/15

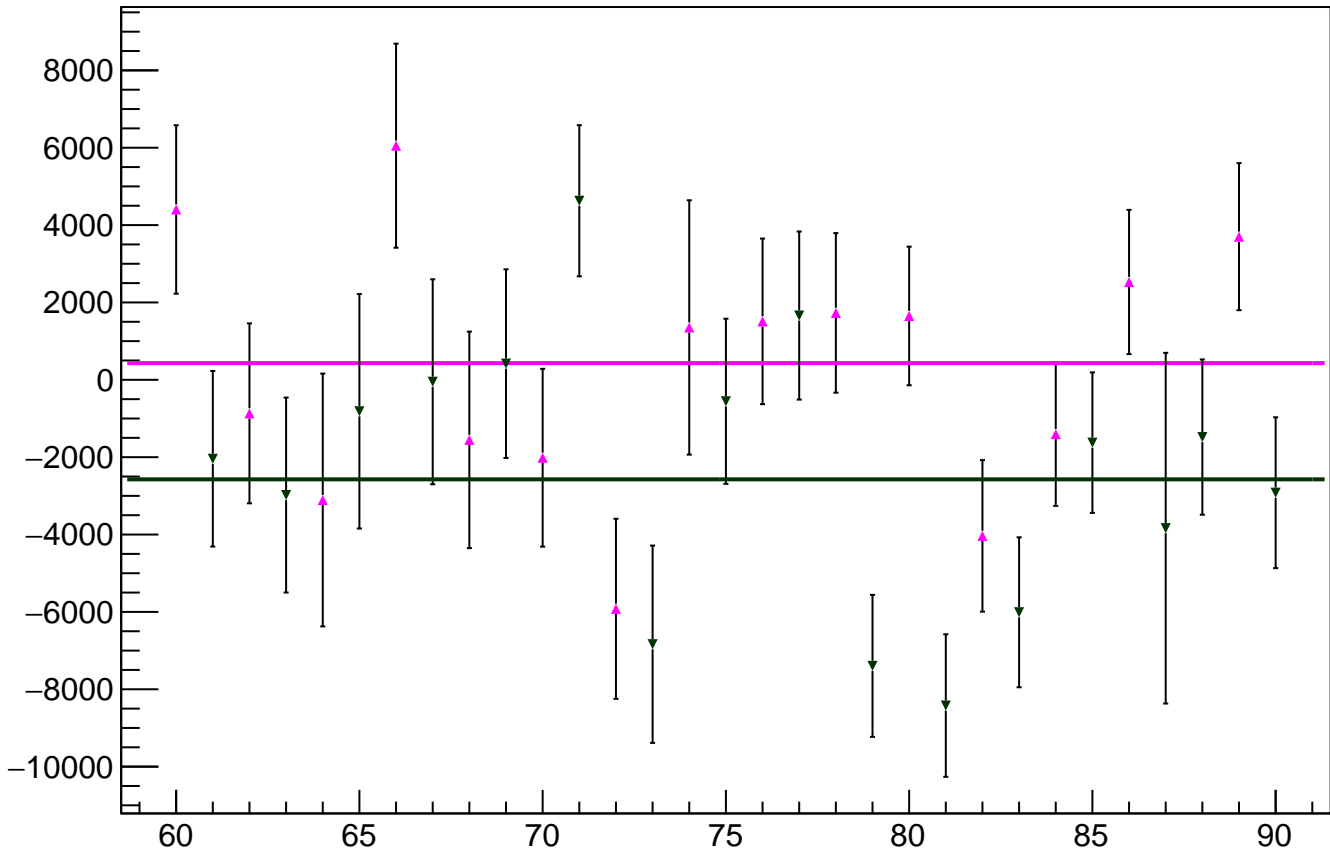
1659.982+/-0.432  $\chi^2$ /NDF: 294611.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1731.322+/-0.450  $\chi^2$ /NDF: 437619.8/14

Left In: 1731.322+/-0.450  $\chi^2$ /NDF:437619.8/14

# asym\_sam8\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -2572.832+/-547.267  $\chi^2$ /NDF:44.7/15

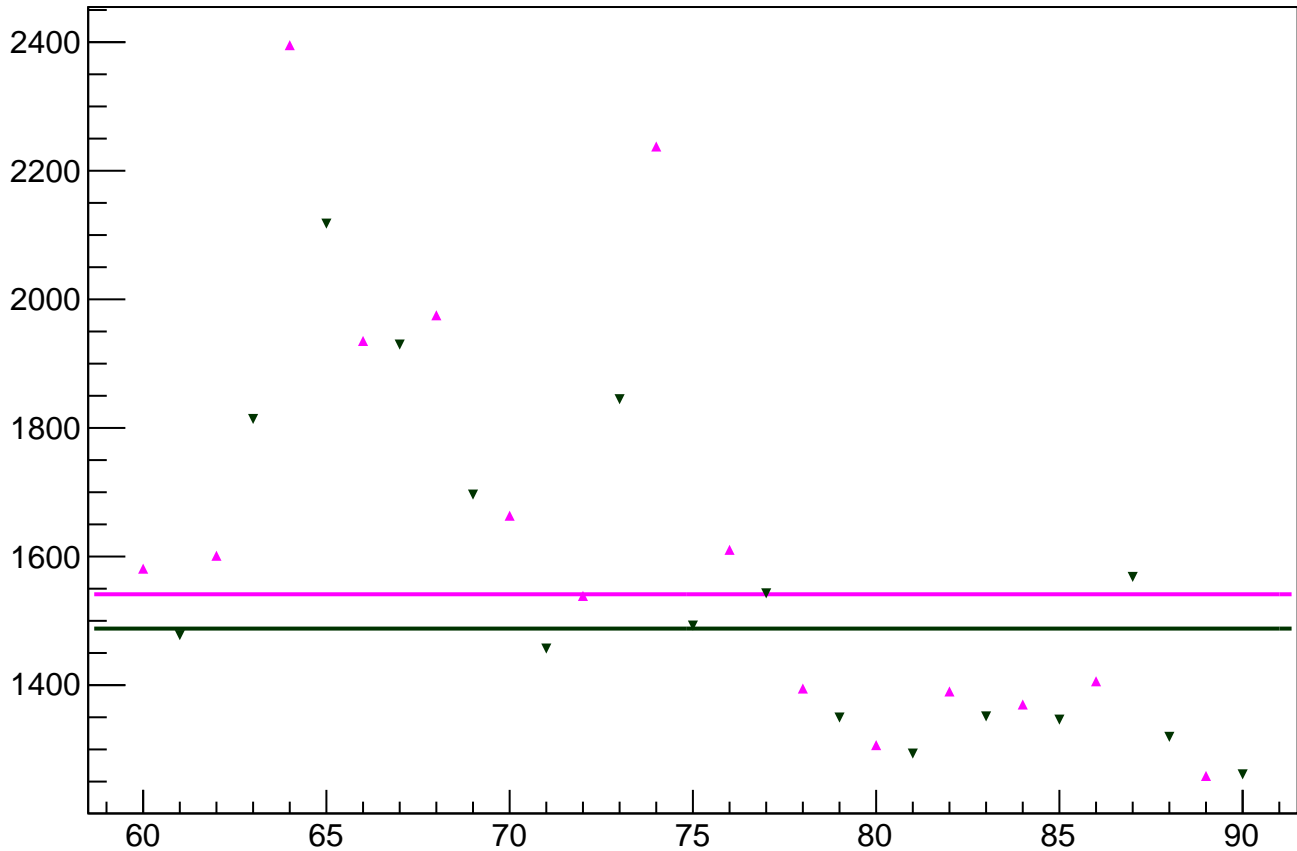
-2572.832+/-547.267  $\chi^2$ /NDF: 44.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

432.568+/-567.343  $\chi^2$ /NDF: 30.0/14

Left In: 432.568+/-567.343  $\chi^2$ /NDF:30.0/14

# asym\_sam8\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1487.947+/-0.387  $\chi^2$ /NDF:328443.6/15

1487.947+/-0.387  $\chi^2$ /NDF: 328443.6/15

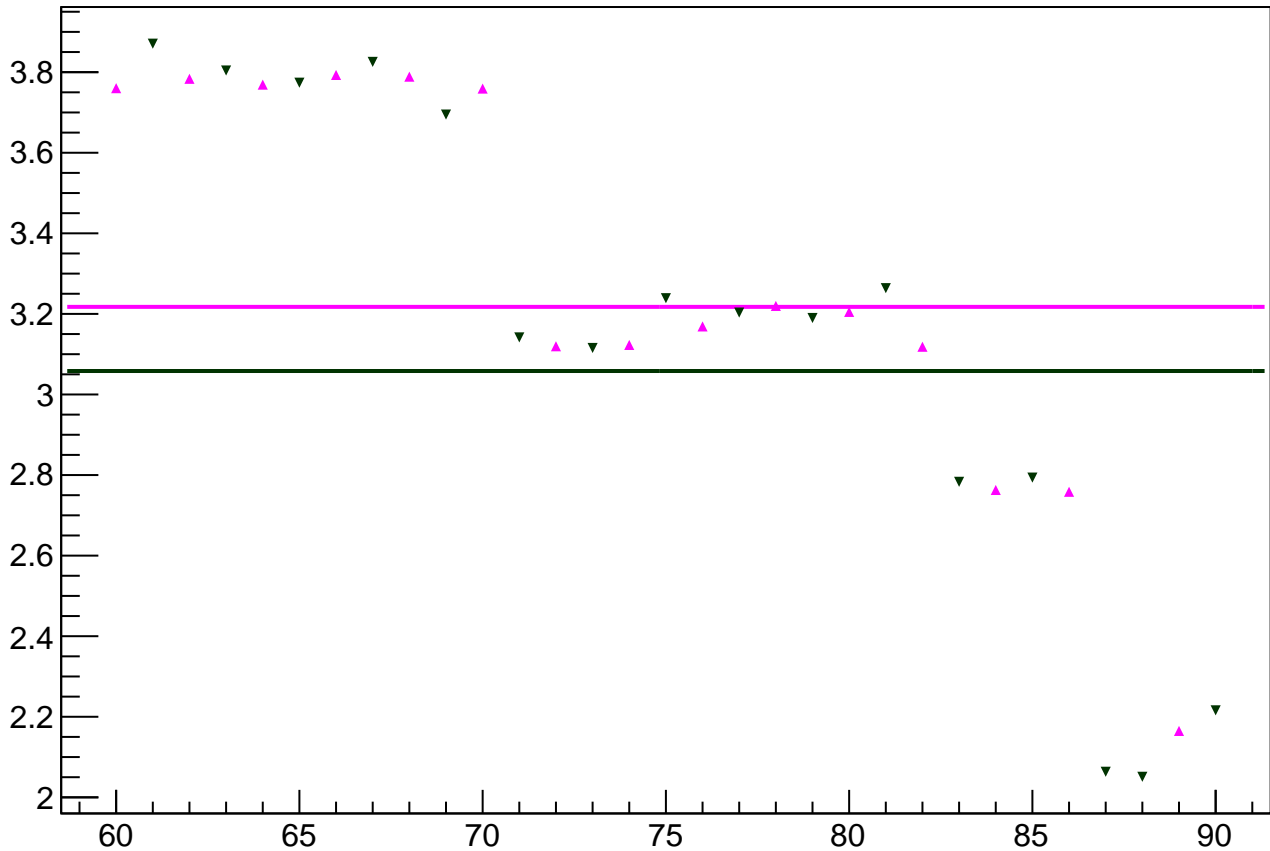
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1541.319+/-0.401  $\chi^2$ /NDF:456844.7/14

1541.319+/-0.401  $\chi^2$ /NDF: 456844.7/14



# yield\_sam1\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.058+/-0.000  $\chi^2$ /NDF:12111663418.0/15

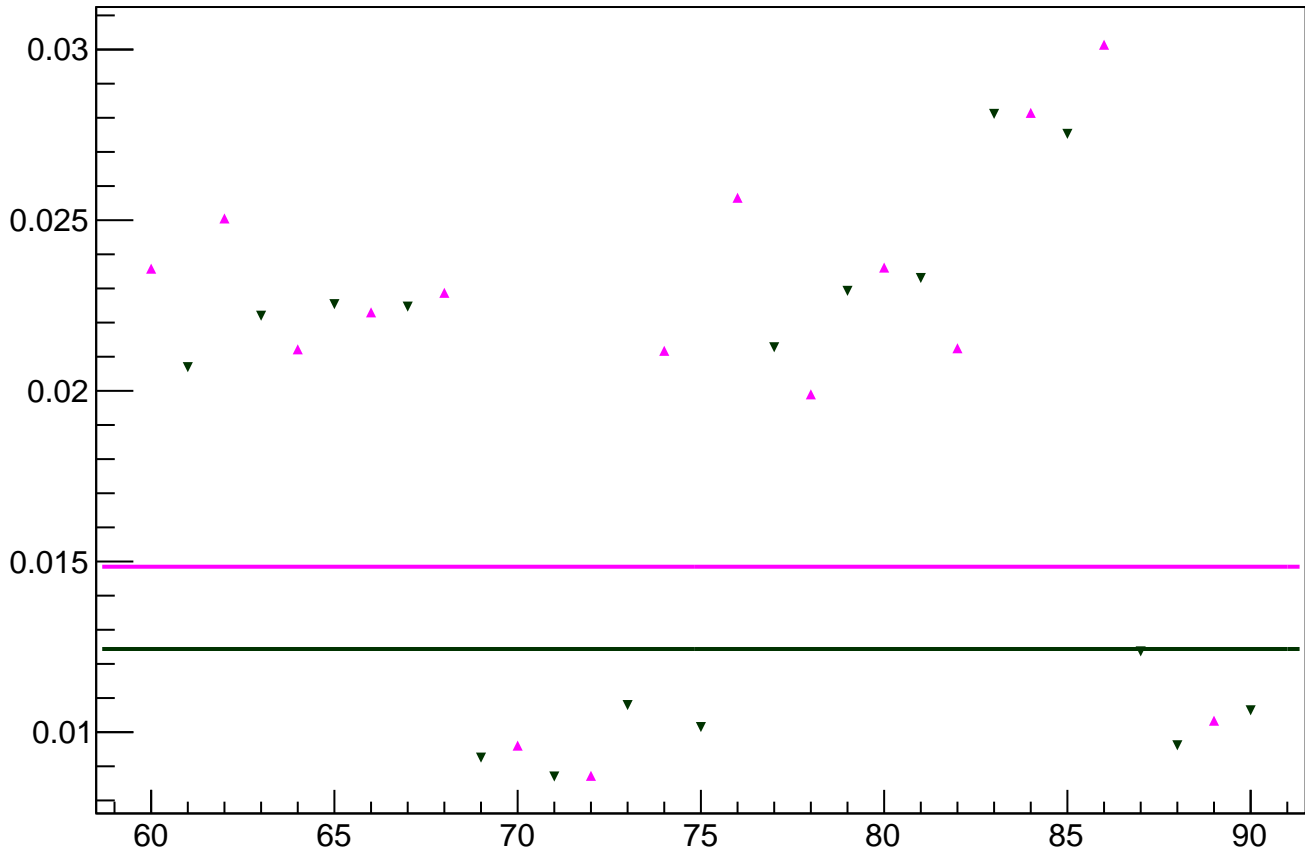
3.058+/-0.000  $\chi^2$ /NDF: 12111663418.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3.217+/-0.000  $\chi^2$ /NDF: 7594069125.8/14

Left In: 3.217+/-0.000  $\chi^2$ /NDF:7594069125.8/14

# yield\_sam1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ :2267755.5/15

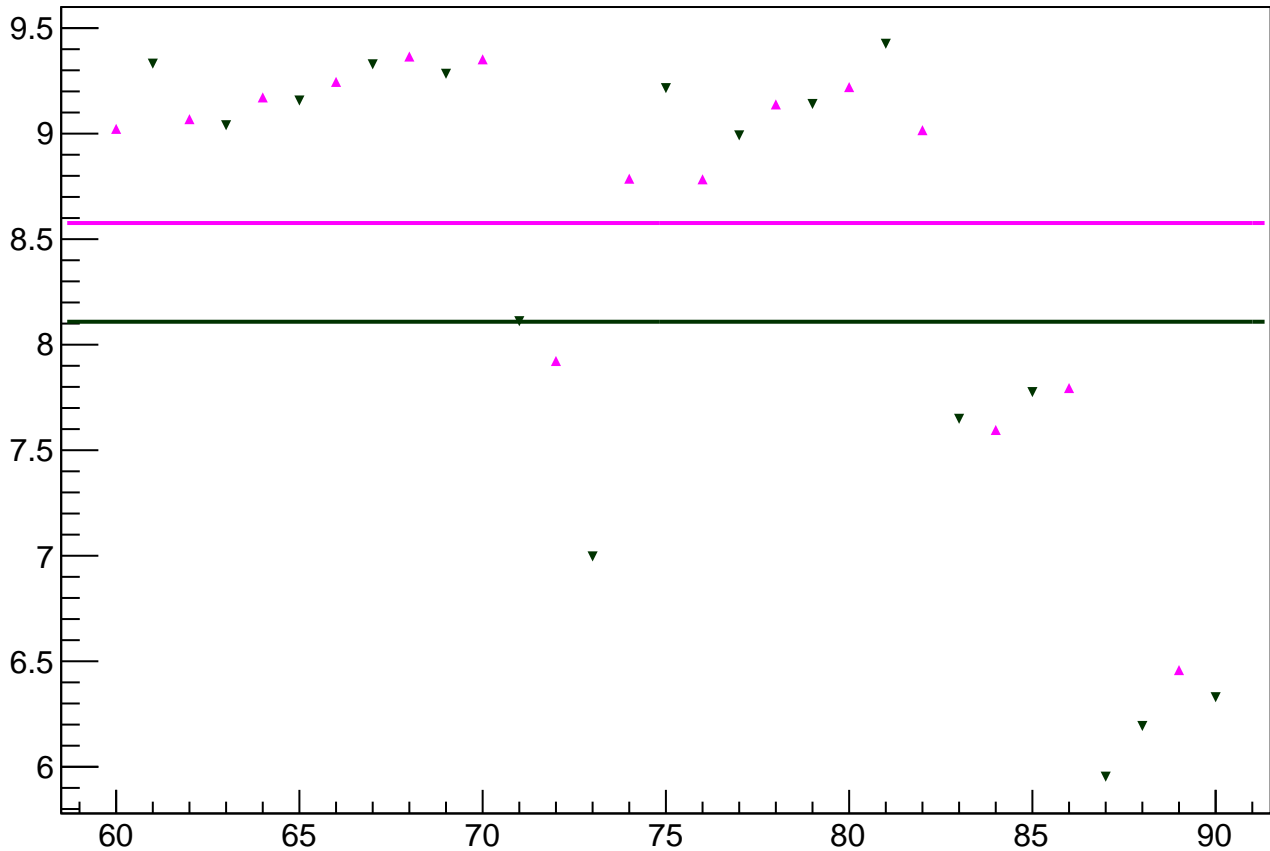
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.015+/-0.000  $\chi^2/\text{NDF}$ :2403974.9/14

0.012+/-0.000  $\chi^2/\text{NDF}$ : 2267755.5/15

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2403974.9/14

# yield\_sam2\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 8.109+/-0.000  $\chi^2/\text{NDF}$ :348689933.9/15

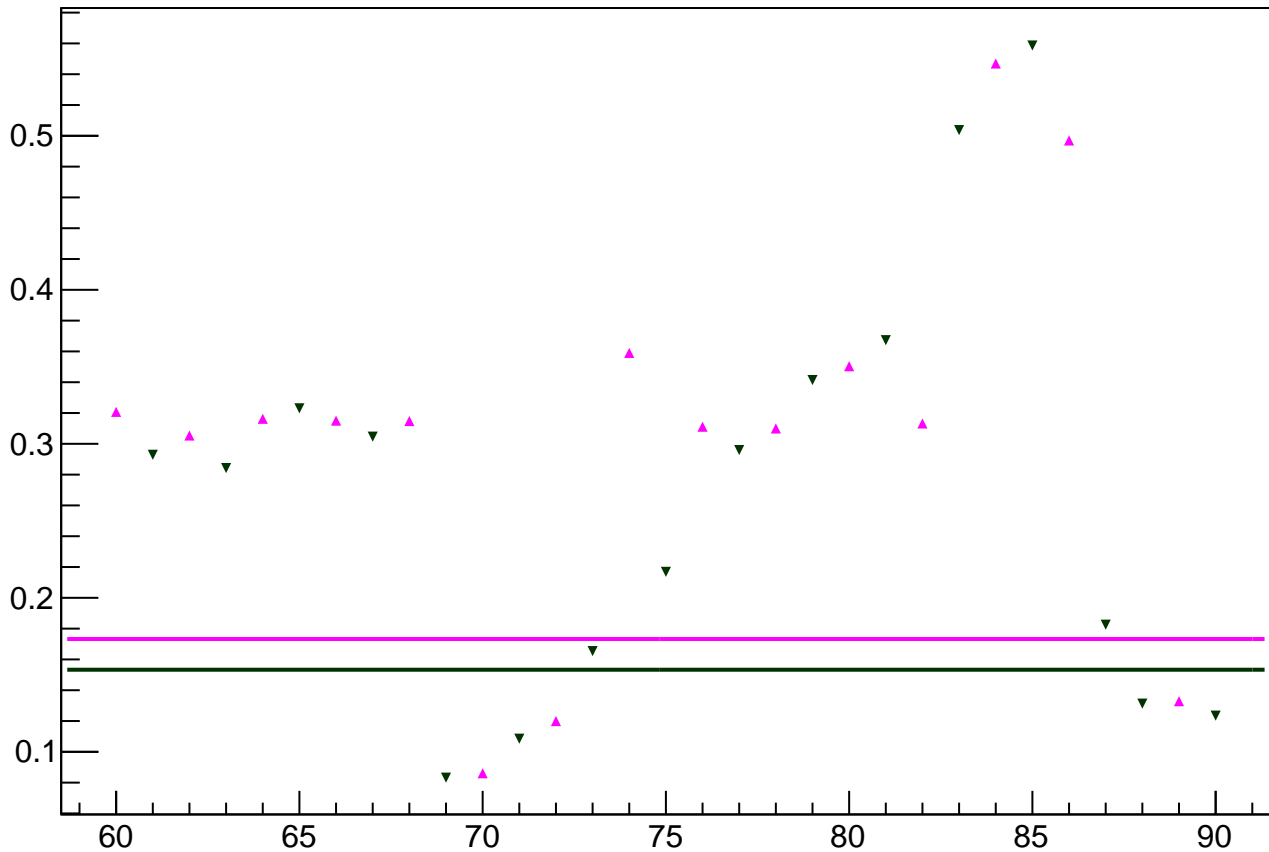
8.109+/-0.000  $\chi^2/\text{NDF}$ : 348689933.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8.576+/-0.000  $\chi^2/\text{NDF}$ : 178819473.0/14

Left In: 8.576+/-0.000  $\chi^2/\text{NDF}$ :178819473.0/14

# yield\_sam2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.153+/-0.000  $\chi^2/\text{NDF}$ :3745943.2/15

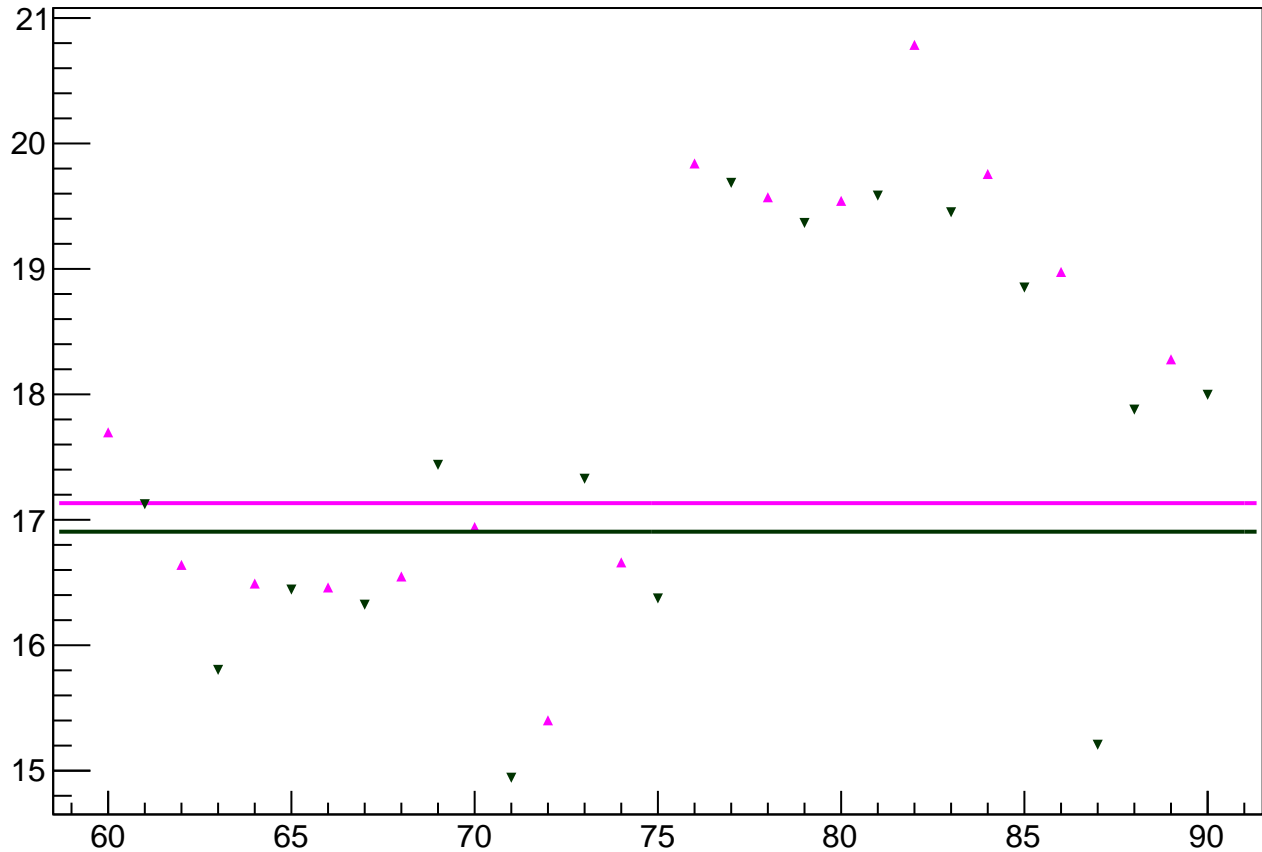
0.153+/-0.000  $\chi^2/\text{NDF}$ : 3745943.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.173+/-0.000  $\chi^2/\text{NDF}$ : 4246434.0/14

Left In: 0.173+/-0.000  $\chi^2/\text{NDF}$ :4246434.0/14

# yield\_sam3\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 16.905+/-0.000  $\chi^2/\text{NDF}$ : 38363991.1/15

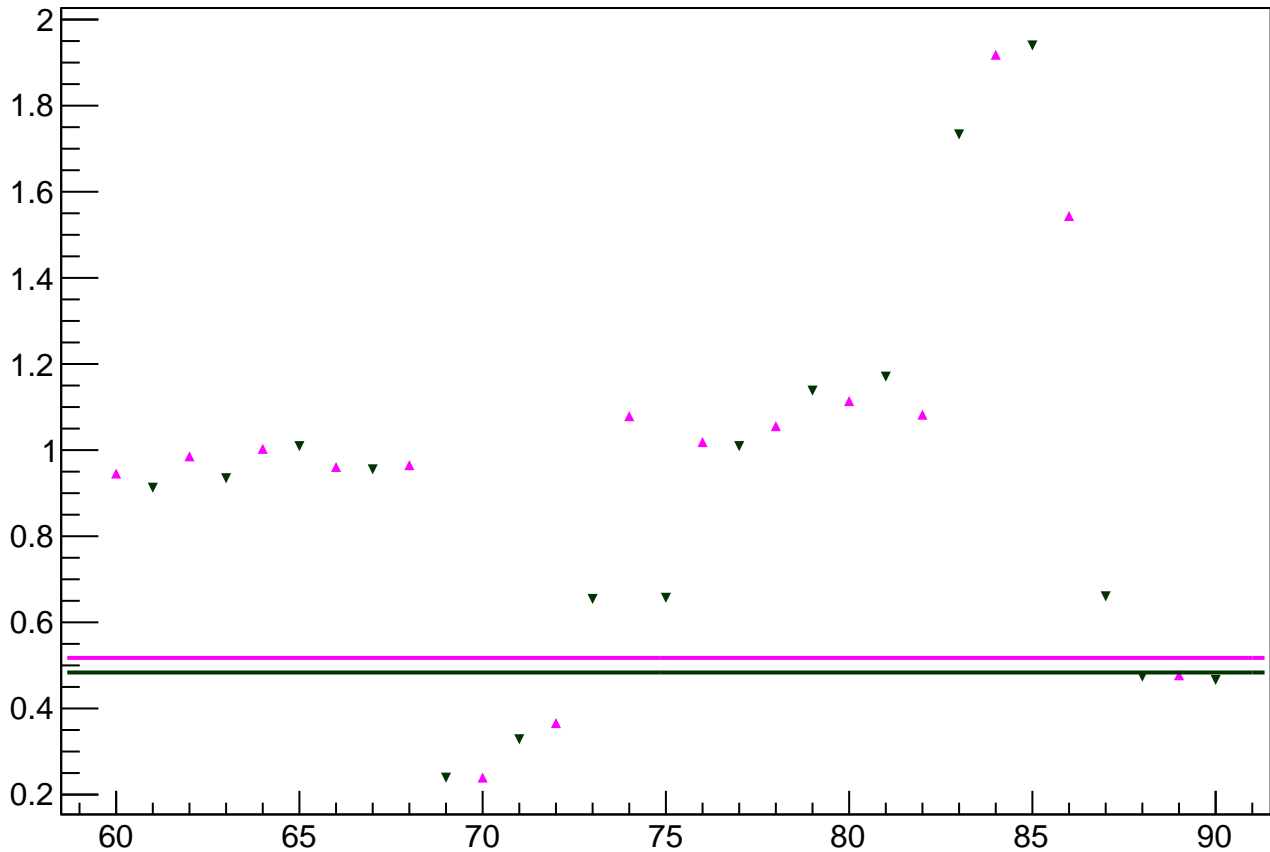
16.905+/-0.000  $\chi^2/\text{NDF}$ : 38363991.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

17.133+/-0.000  $\chi^2/\text{NDF}$ : 29134581.7/14

Left In: 17.133+/-0.000  $\chi^2/\text{NDF}$ : 29134581.7/14

# yield\_sam3\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.484+/-0.000  $\chi^2/\text{NDF}$ : 4223055.2/15

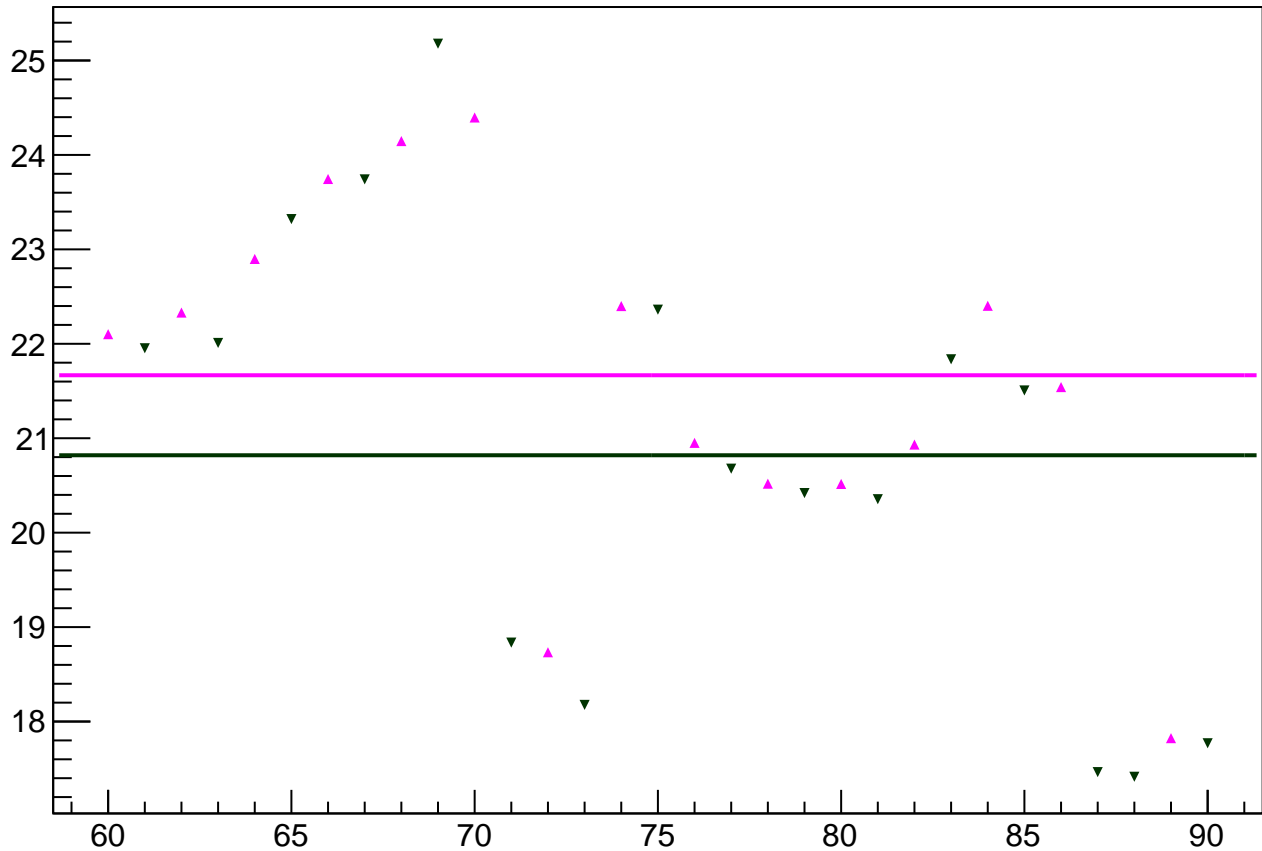
0.484+/-0.000  $\chi^2/\text{NDF}$ : 4223055.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.517+/-0.000  $\chi^2/\text{NDF}$ : 4804087.0/14

Left In: 0.517+/-0.000  $\chi^2/\text{NDF}$ : 4804087.0/14

# yield\_sam4\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 20.820+/-0.000  $\chi^2/\text{NDF}$ : 545646405.0/15

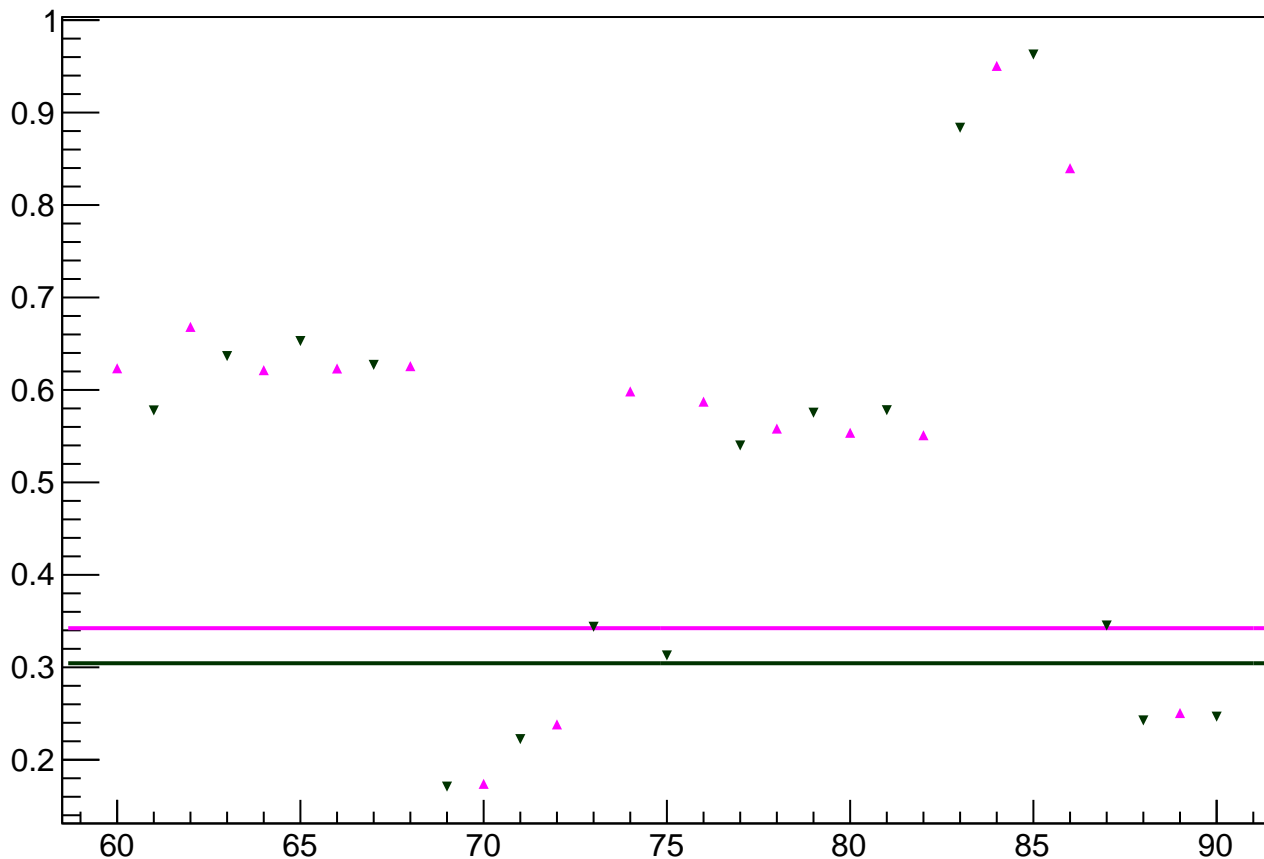
20.820+/-0.000  $\chi^2/\text{NDF}$ : 545646405.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

21.667+/-0.000  $\chi^2/\text{NDF}$ : 309628377.5/14

Left In: 21.667+/-0.000  $\chi^2/\text{NDF}$ : 309628377.5/14

# yield\_sam4\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.304+/-0.000  $\chi^2/\text{NDF}$ :3308173.5/15

0.304+/-0.000  $\chi^2/\text{NDF}$ : 3308173.5/15

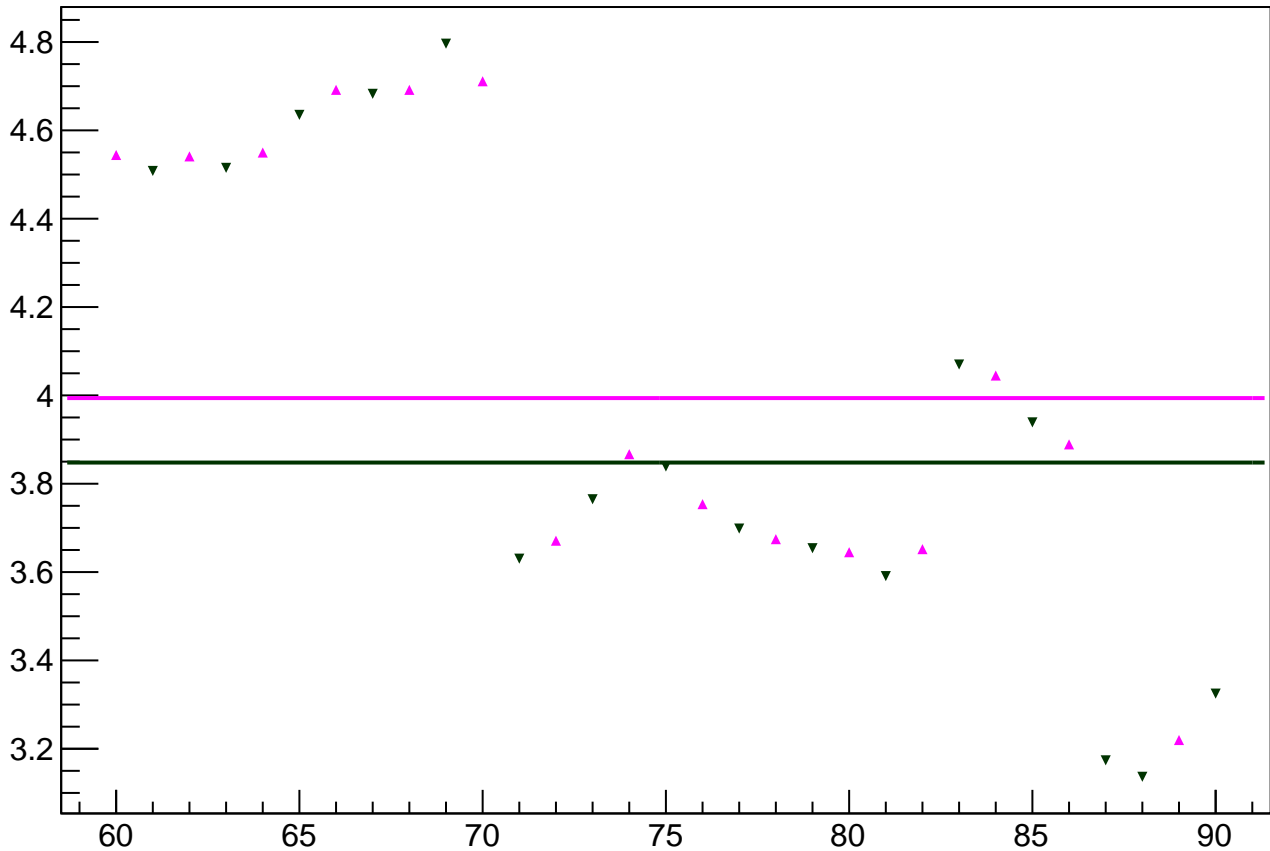
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.342+/-0.000  $\chi^2/\text{NDF}$ : 3769774.8/14

Left In: 0.342+/-0.000  $\chi^2/\text{NDF}$ :3769774.8/14



# yield\_sam5\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.848+/-0.000  $\chi^2/\text{NDF}$ : 5642073217.2/15

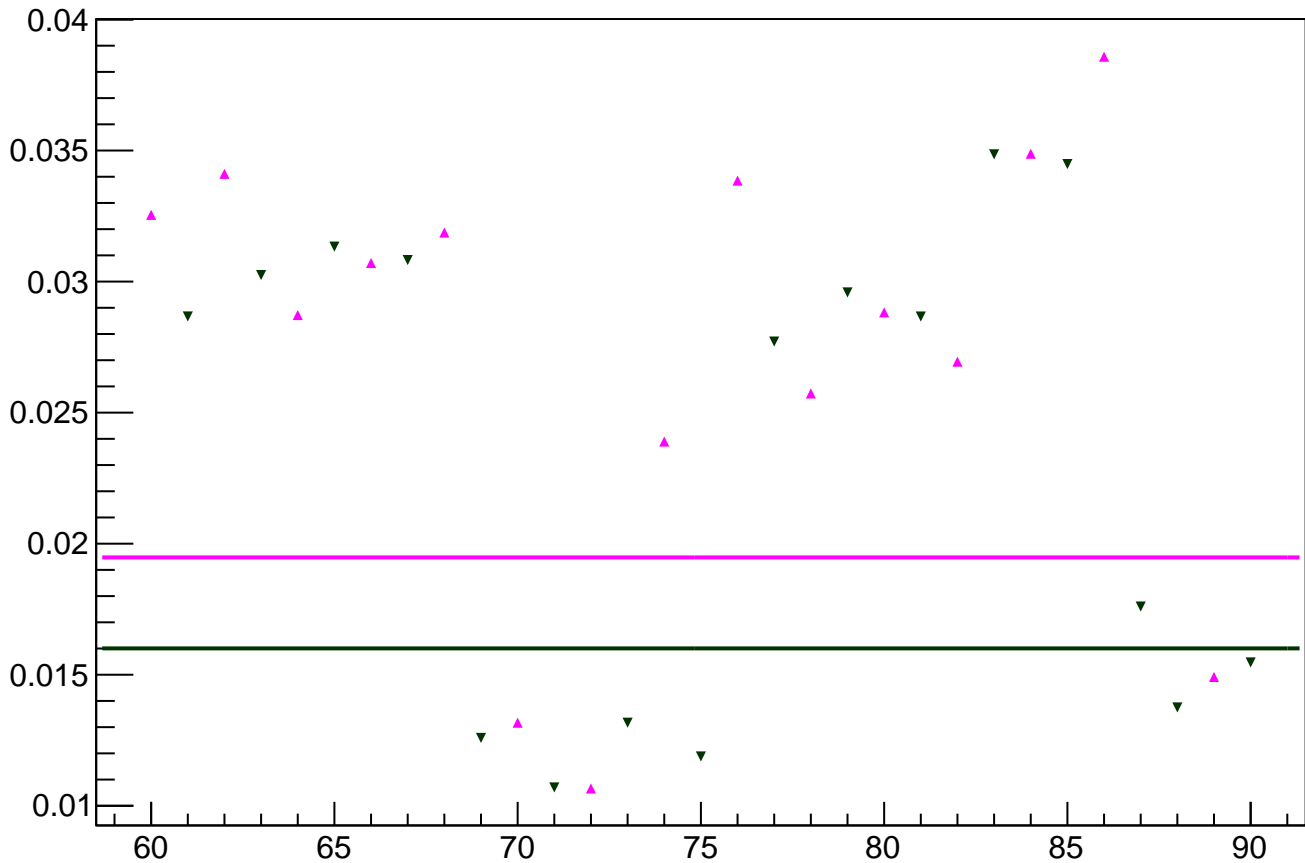
Left Out: 3.848+/-0.000  $\chi^2/\text{NDF}$ : 5642073217.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3.994+/-0.000  $\chi^2/\text{NDF}$ : 4159522209.0/14

Left In: 3.994+/-0.000  $\chi^2/\text{NDF}$ : 4159522209.0/14

# yield\_sam5\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 2374119.2/15

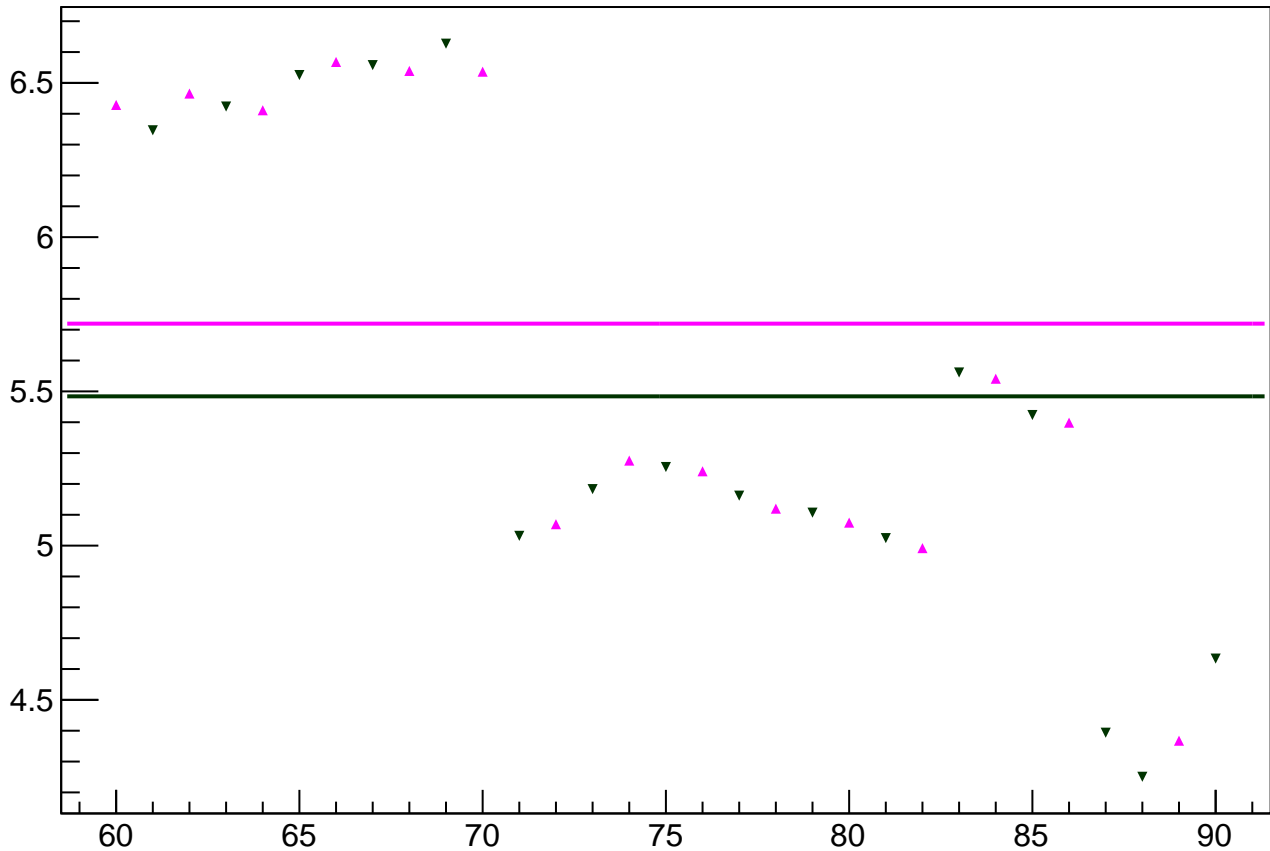
0.016+/-0.000  $\chi^2/\text{NDF}$ : 2374119.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.019+/-0.000  $\chi^2/\text{NDF}$ : 2387632.4/14

Left In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 2387632.4/14

# yield\_sam6\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.484+/-0.000  $\chi^2/\text{NDF}$ :2031132345.8/15

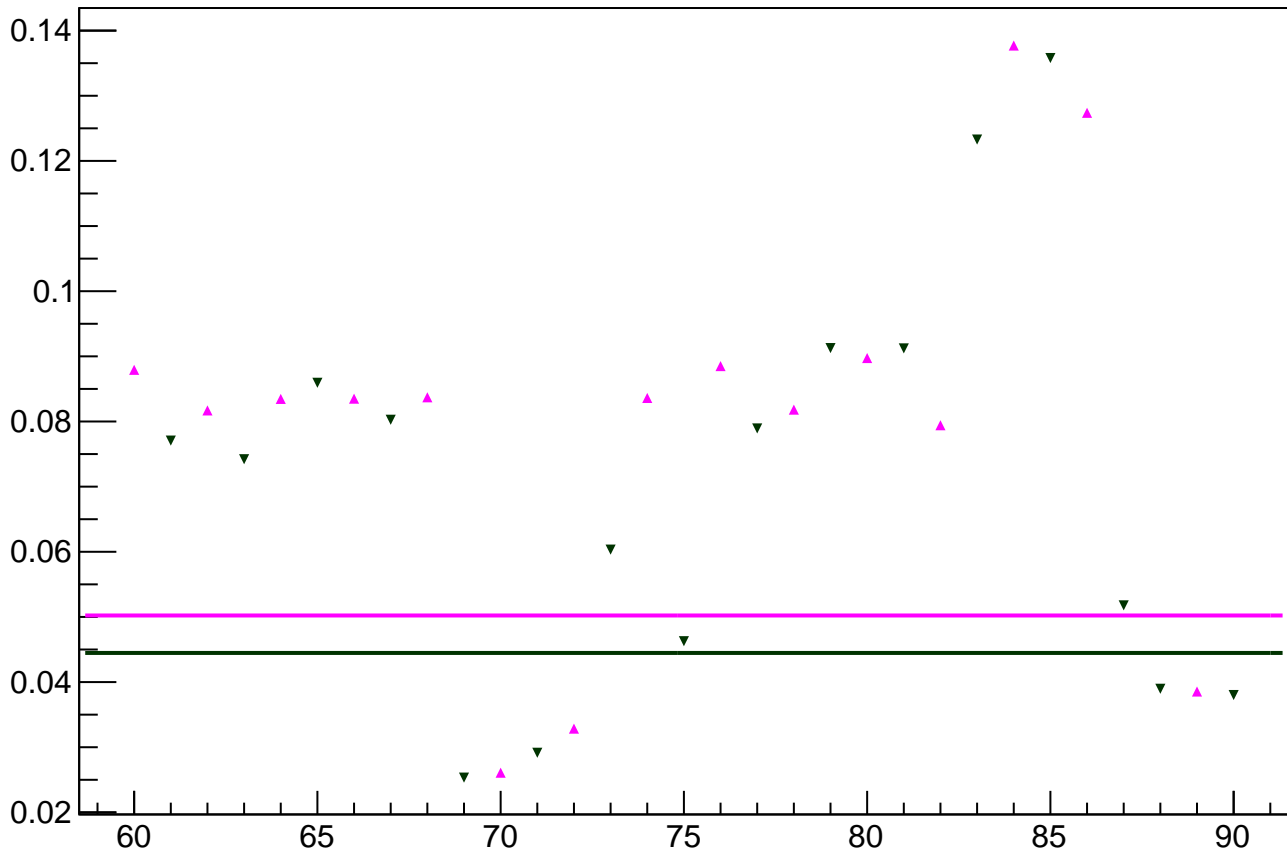
5.484+/-0.000  $\chi^2/\text{NDF}$ : 2031132345.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.720+/-0.000  $\chi^2/\text{NDF}$ : 1492717440.5/14

Left In: 5.720+/-0.000  $\chi^2/\text{NDF}$ :1492717440.5/14

# yield\_sam6\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.044+/-0.000  $\chi^2$ /NDF:3198045.9/15

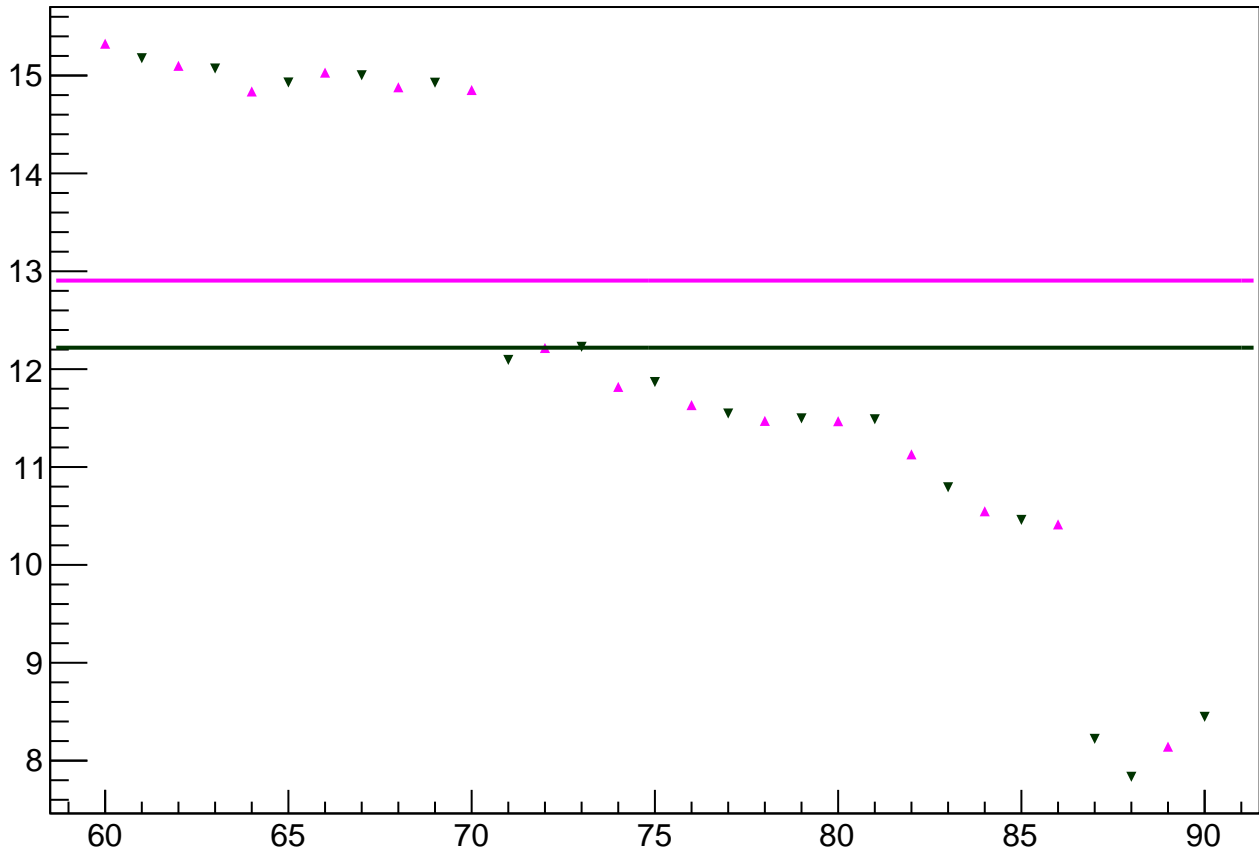
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.050+/-0.000  $\chi^2$ /NDF:3512167.0/14

0.044+/-0.000  $\chi^2$ /NDF: 3198045.9/15

0.050+/-0.000  $\chi^2$ /NDF: 3512167.0/14

# yield\_sam7\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 12.219+/-0.000  $\chi^2$ /NDF:8815529847.0/15

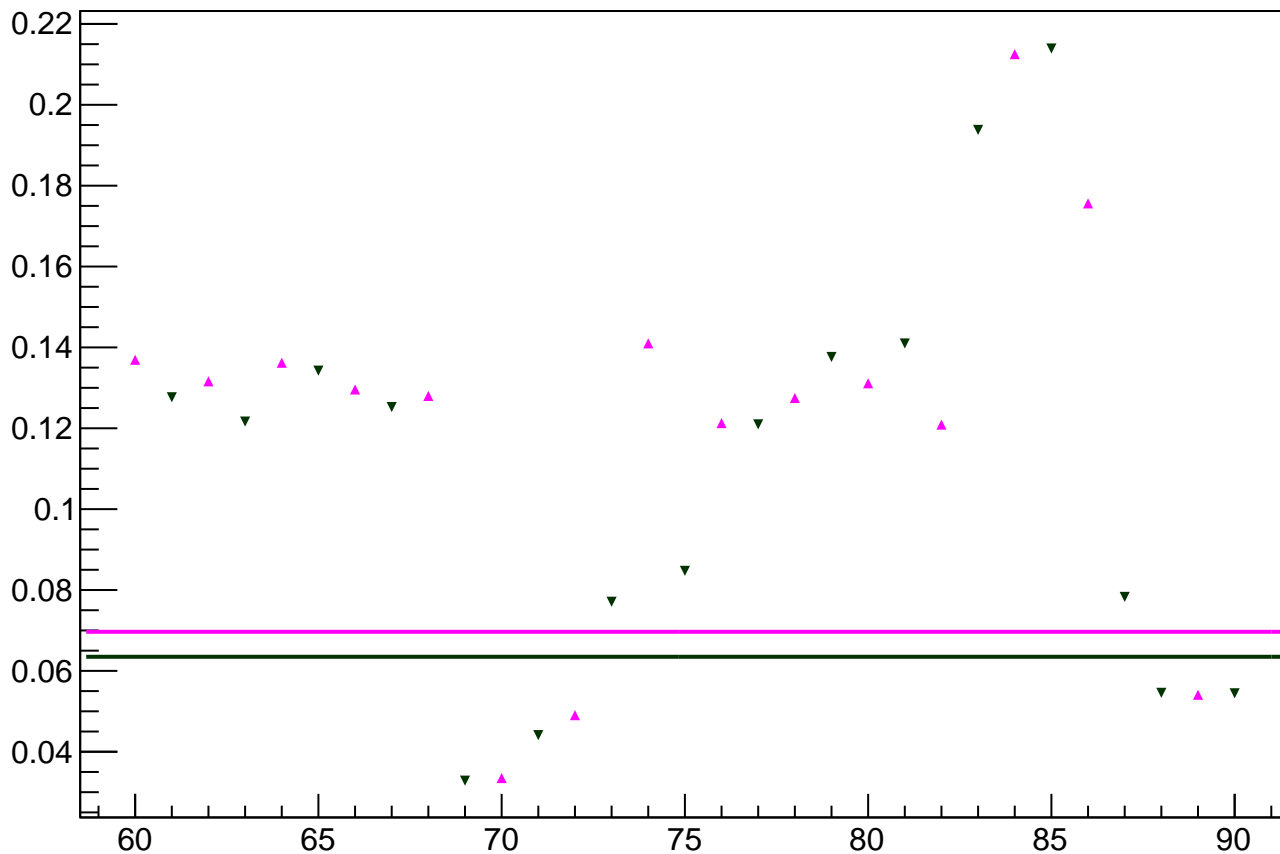
12.219+/-0.000  $\chi^2$ /NDF: 8815529847.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

12.905+/-0.000  $\chi^2$ /NDF: 6136316257.6/14

Left In: 12.905+/-0.000  $\chi^2$ /NDF:6136316257.6/14

# yield\_sam7\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.063+/-0.000  $\chi^2/\text{NDF}$ :3799075.3/15

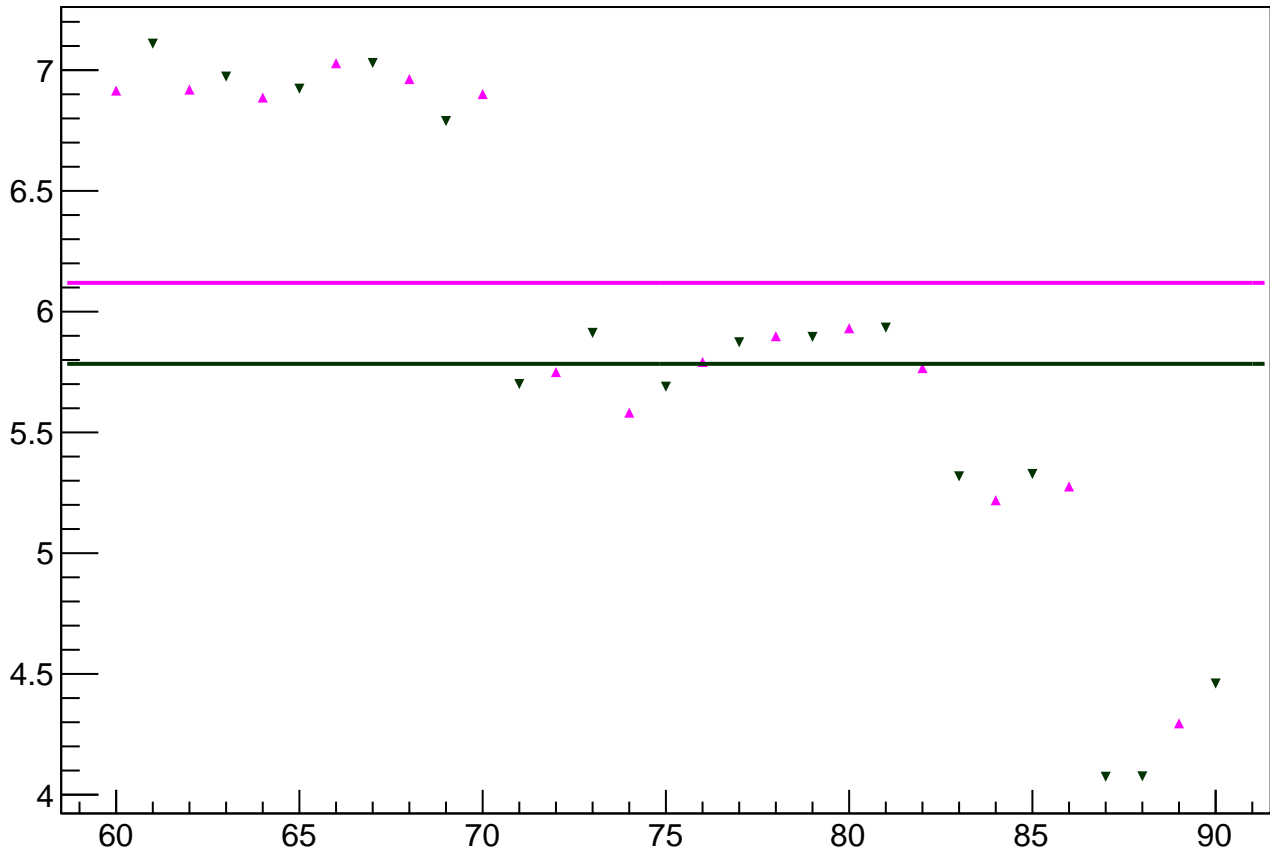
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.070+/-0.000  $\chi^2/\text{NDF}$ :4286554.6/14

0.063+/-0.000  $\chi^2/\text{NDF}$ : 3799075.3/15

0.070+/-0.000  $\chi^2/\text{NDF}$ : 4286554.6/14

# yield\_sam8\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.784+/-0.000  $\chi^2/\text{NDF}$ : 5905436307.9/15

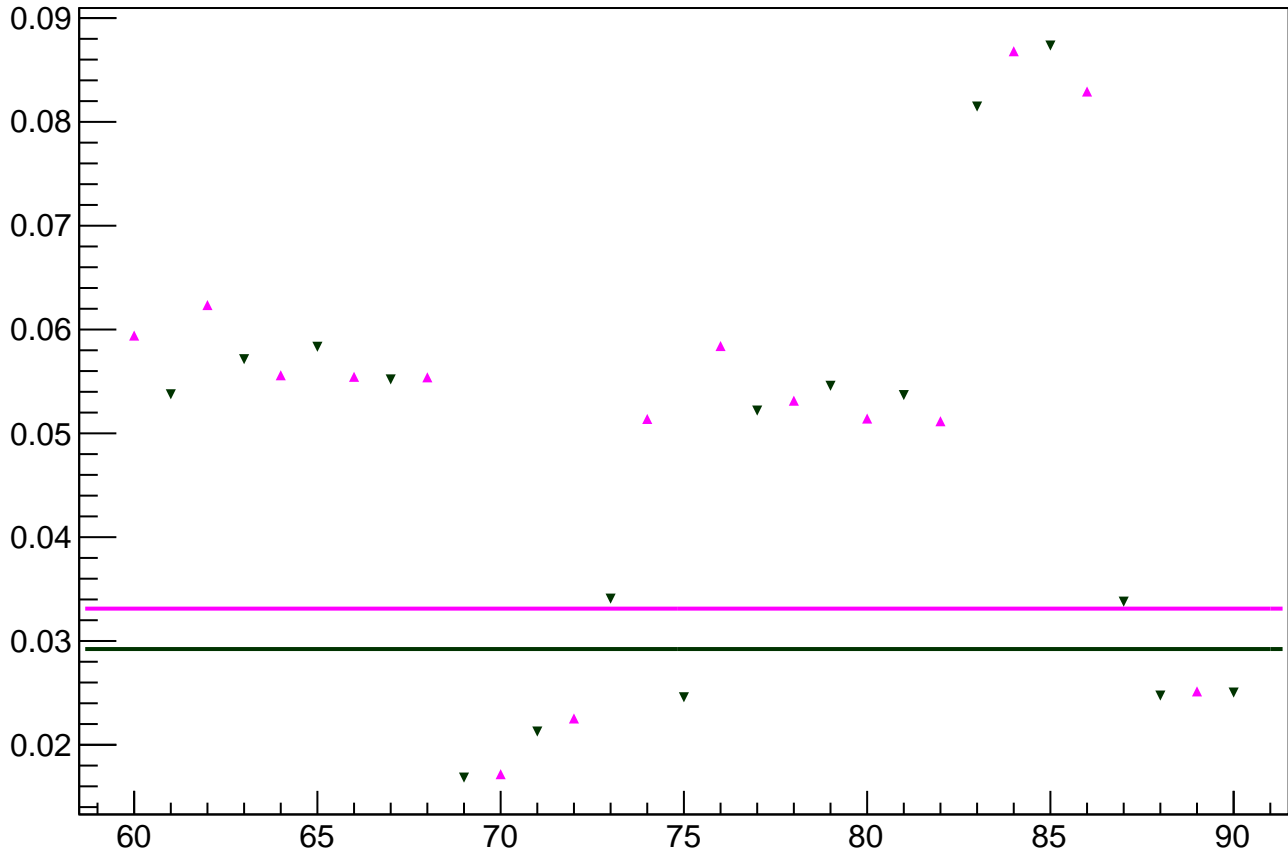
5.784+/-0.000  $\chi^2/\text{NDF}$ : 5905436307.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.119+/-0.000  $\chi^2/\text{NDF}$ : 4111526208.2/14

Left In: 6.119+/-0.000  $\chi^2/\text{NDF}$ : 4111526208.2/14

# yield\_sam8\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.029+/-0.000  $\chi^2$ /NDF:3046974.7/15

0.029+/-0.000  $\chi^2$ /NDF: 3046974.7/15

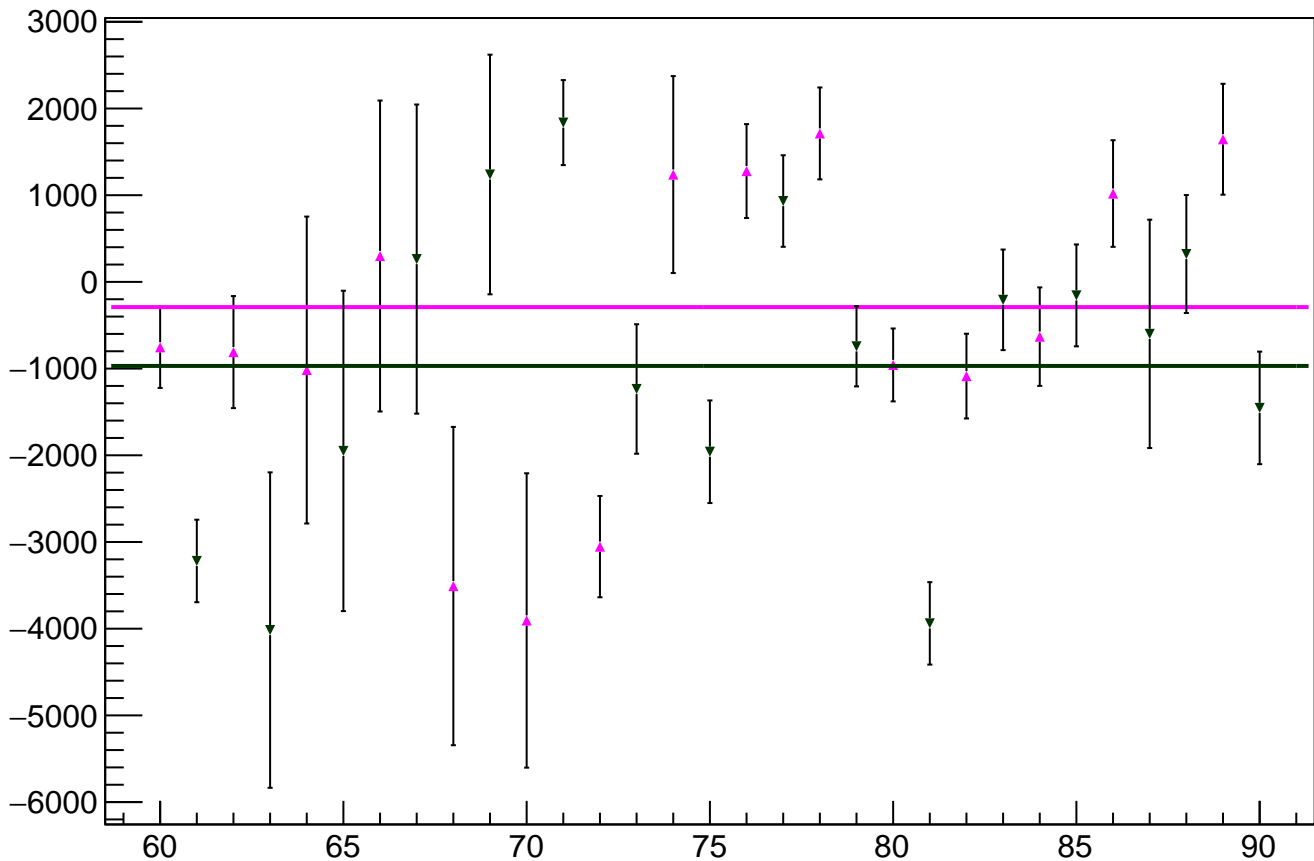
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.033+/-0.000  $\chi^2$ /NDF: 3432471.7/14

Left In: 0.033+/-0.000  $\chi^2$ /NDF:3432471.7/14



# cor\_sam1\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -969.187+/-161.539  $\chi^2/\text{NDF}$ :124.2/15

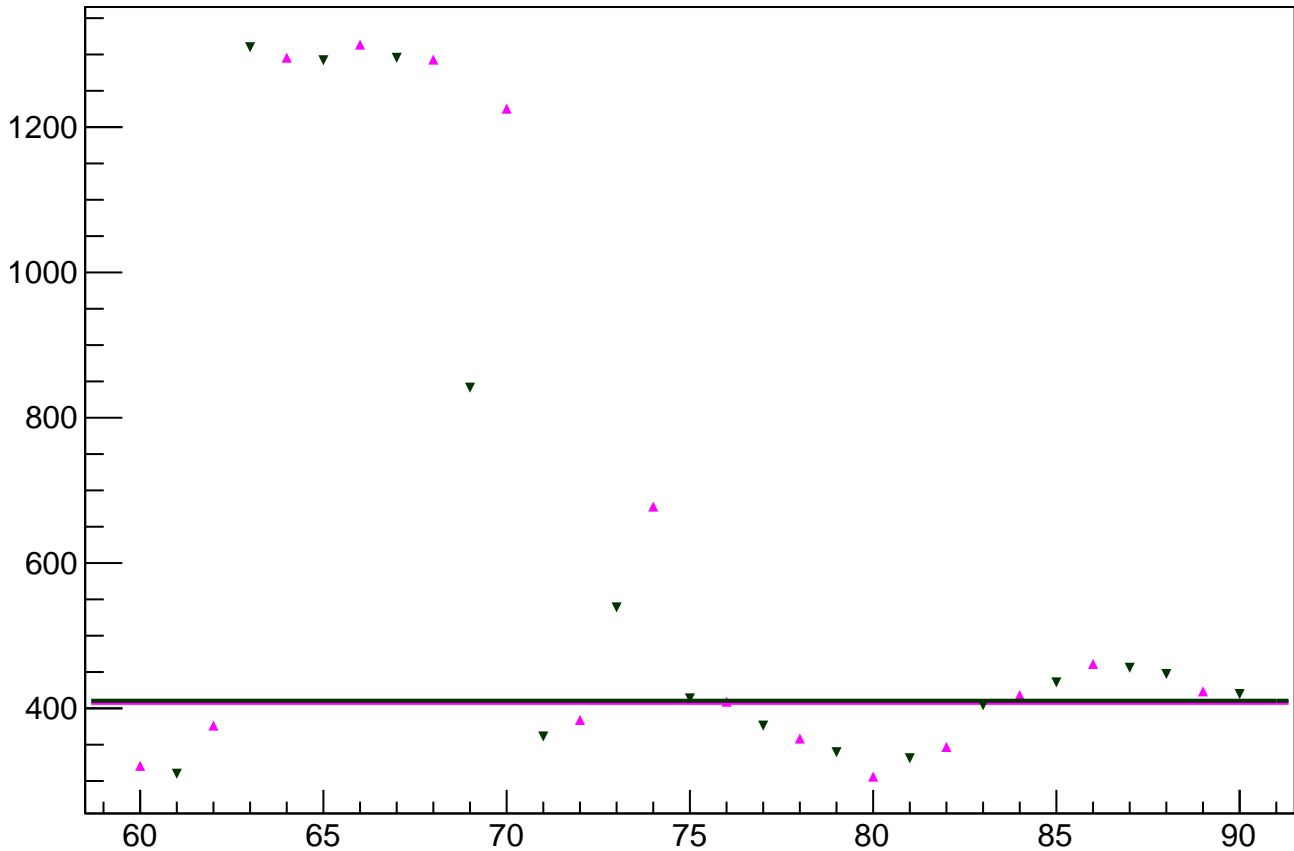
-969.187+/-161.539  $\chi^2/\text{NDF}$ : 124.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -290.606+/-164.596  $\chi^2/\text{NDF}$ :75.6/14

-290.606+/-164.596  $\chi^2/\text{NDF}$ : 75.6/14

# cor\_sam1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 410.533+/-0.114  $\chi^2$ /NDF:1923142.6/15

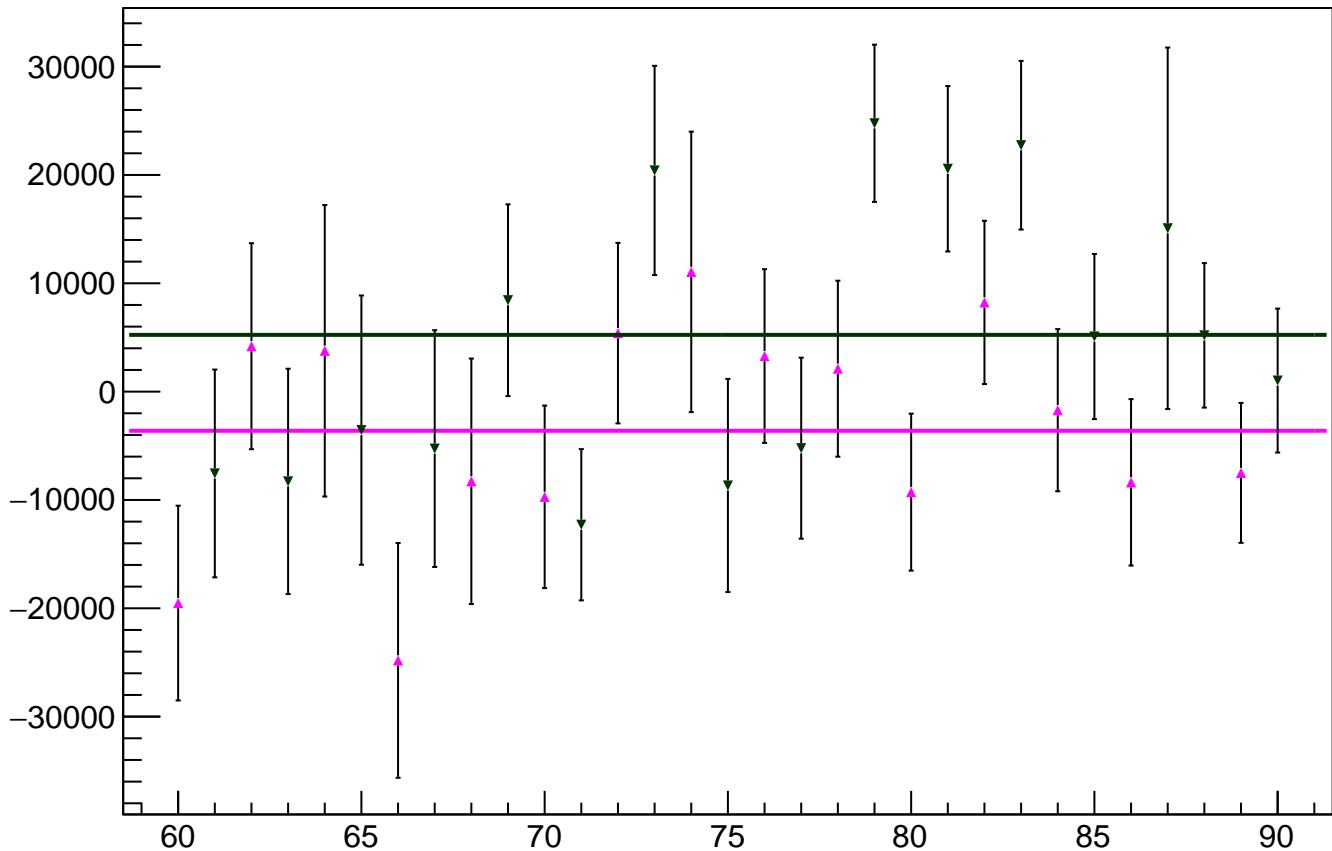
410.533+/-0.114  $\chi^2$ /NDF: 1923142.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

407.589+/-0.116  $\chi^2$ /NDF: 2314223.6/14

Left In: 407.589+/-0.116  $\chi^2$ /NDF:2314223.6/14

# cor\_sam2\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5239.356+/-2121.484  $\chi^2$ /NDF:34.4/15

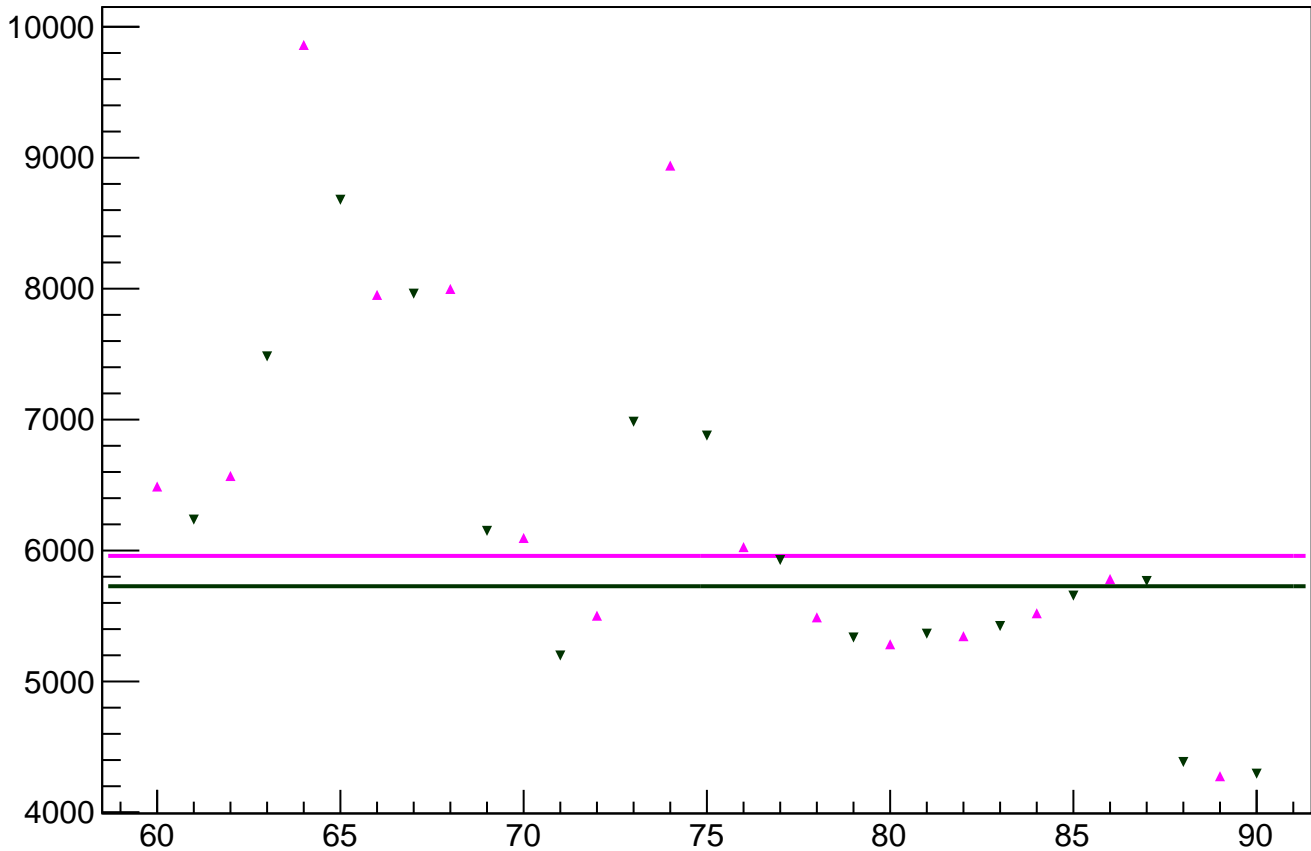
5239.356+/-2121.484  $\chi^2$ /NDF: 34.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3614.879+/-2203.972  $\chi^2$ /NDF: 16.2/14

Left In: -3614.879+/-2203.972  $\chi^2$ /NDF:16.2/14

# cor\_sam2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5727.399+/-1.500  $\chi^2$ /NDF: 524856.9/15

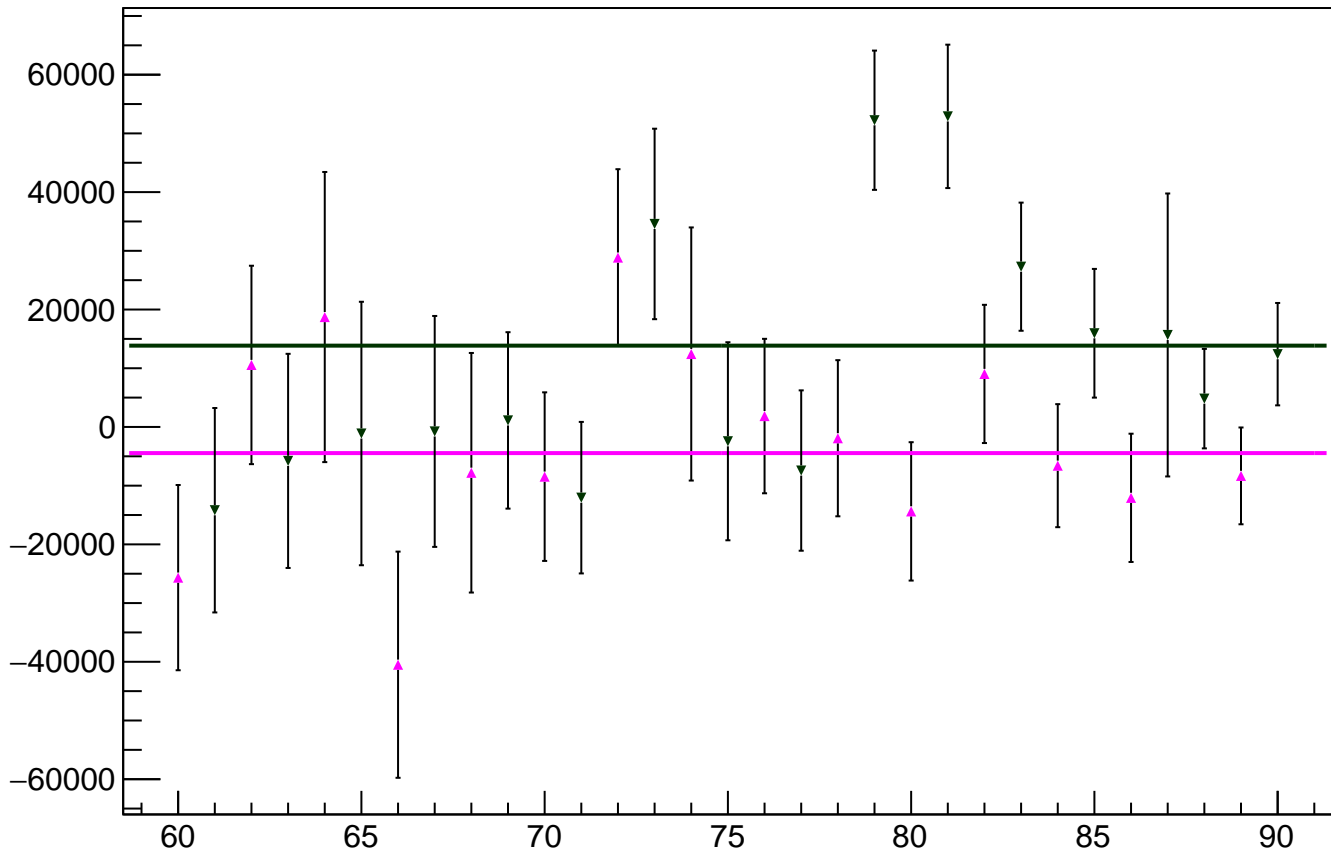
Left Out: 5727.399+/-1.500  $\chi^2$ /NDF:524856.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5959.170+/-1.558  $\chi^2$ /NDF: 609463.6/14

Left In: 5959.170+/-1.558  $\chi^2$ /NDF:609463.6/14

# cor\_sam3\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13849.286+/-3273.384  $\chi^2/\text{NDF}$ : 37.9/15

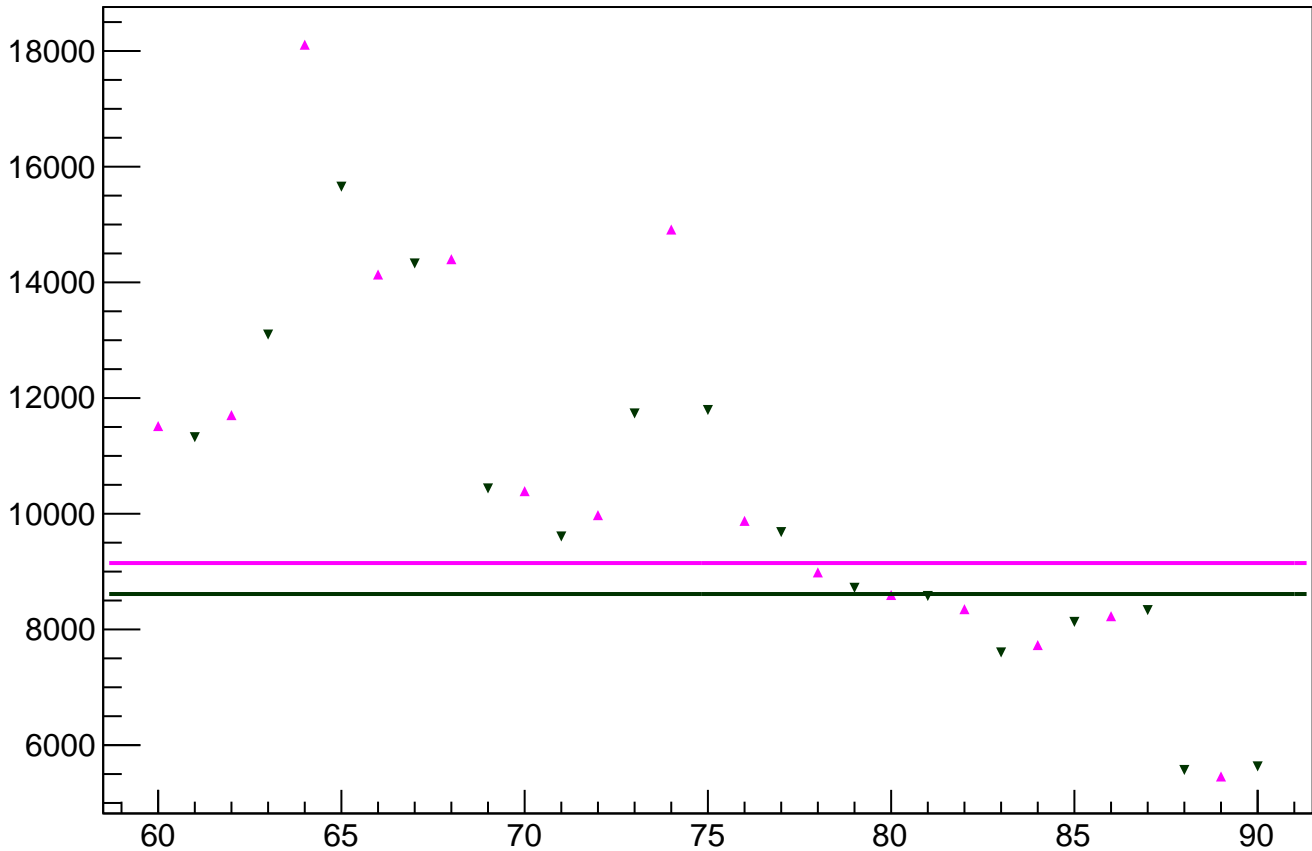
Left Out: 13849.286+/-3273.384  $\chi^2/\text{NDF}$ : 37.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-4452.198+/-3455.950  $\chi^2/\text{NDF}$ : 15.6/14

Left In: -4452.198+/-3455.950  $\chi^2/\text{NDF}$ : 15.6/14

# cor\_sam3\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8612.434+/-2.315  $\chi^2/\text{NDF}$ : 1247143.3/15

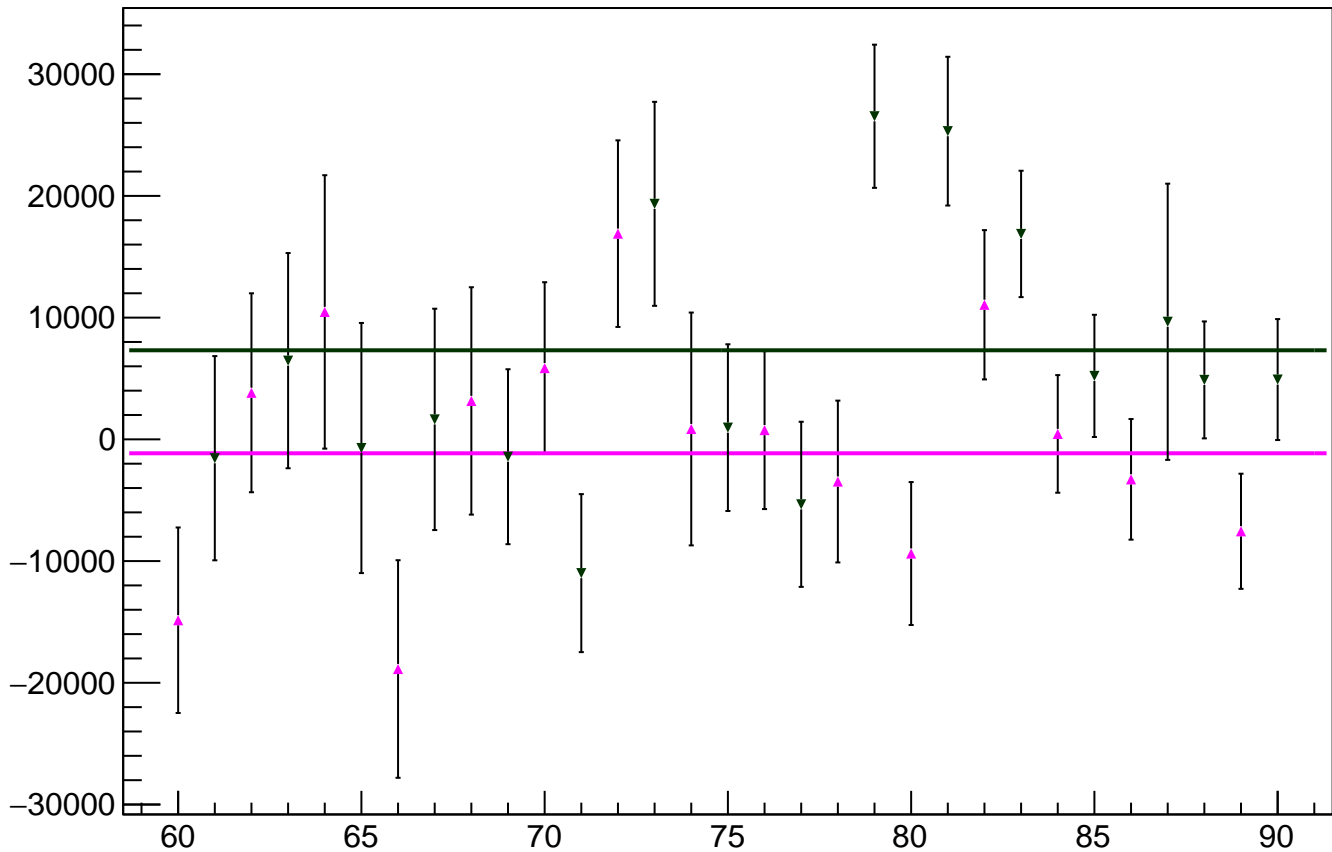
Left Out: 8612.434+/-2.315  $\chi^2/\text{NDF}$ : 1247143.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9147.584+/-2.444  $\chi^2/\text{NDF}$ : 1256235.0/14

Left In: 9147.584+/-2.444  $\chi^2/\text{NDF}$ : 1256235.0/14

# cor\_sam4\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

7316.370+/-1637.185  $\chi^2$ /NDF: 41.4/15

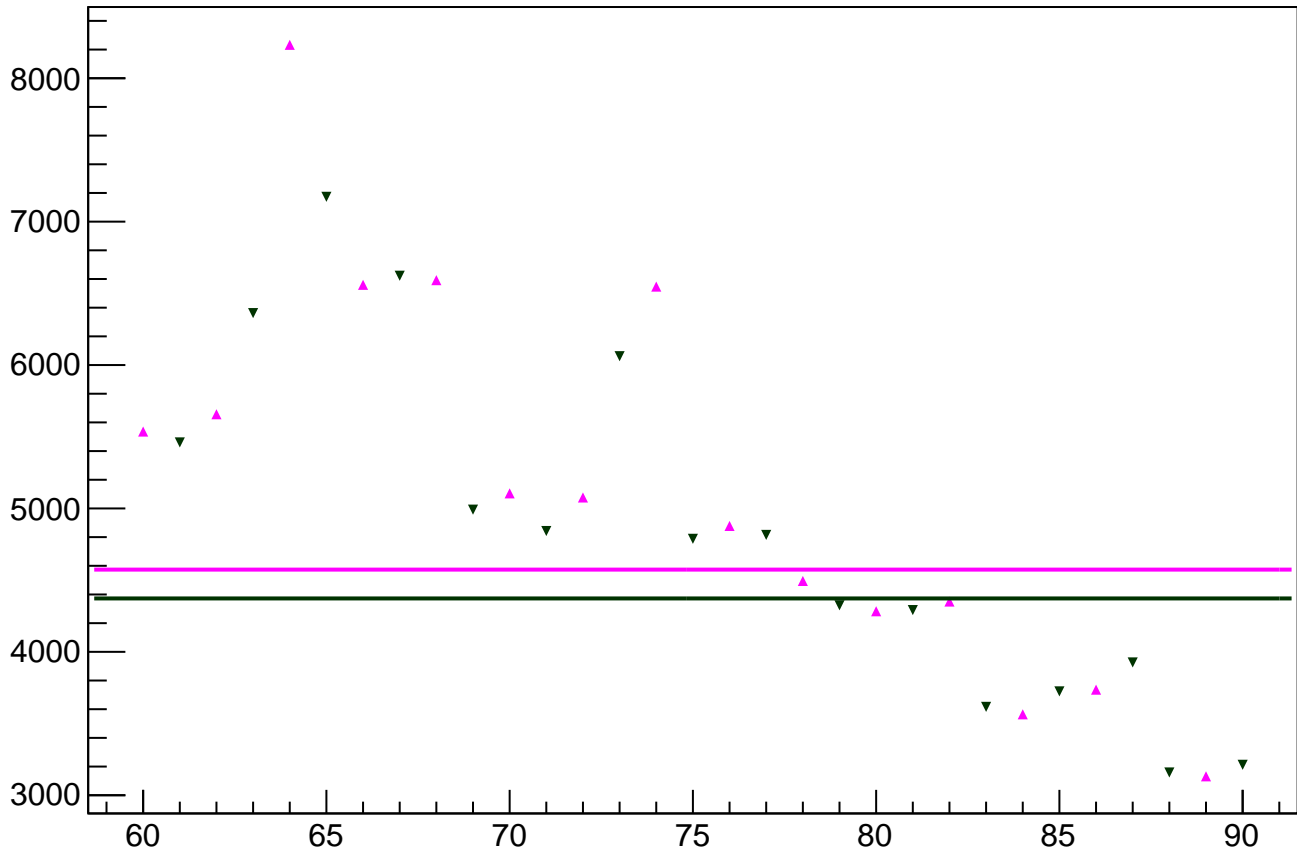
Left Out: 7316.370+/-1637.185  $\chi^2$ /NDF:41.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1144.158+/-1708.936  $\chi^2$ /NDF: 23.7/14

Left In: -1144.158+/-1708.936  $\chi^2$ /NDF:23.7/14

# cor\_sam4\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4372.399+/-1.158  $\chi^2$ /NDF: 844667.3/15

Left Out: 4372.399+/-1.158  $\chi^2$ /NDF:844667.3/15

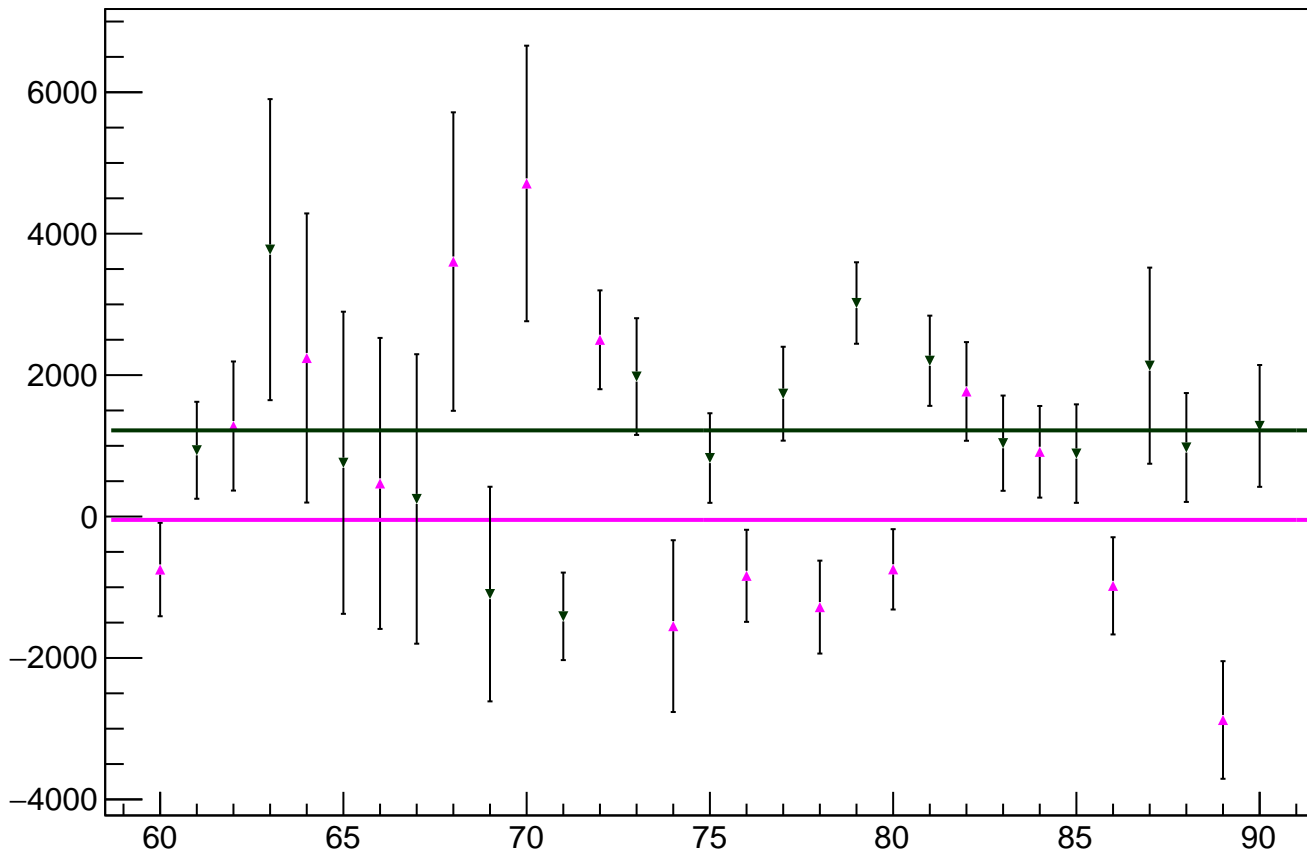
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4573.452+/-1.208  $\chi^2$ /NDF: 919062.0/14

Left In: 4573.452+/-1.208  $\chi^2$ /NDF:919062.0/14



# cor\_sam5\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1218.418+/-198.519  $\chi^2$ /NDF:37.1/15

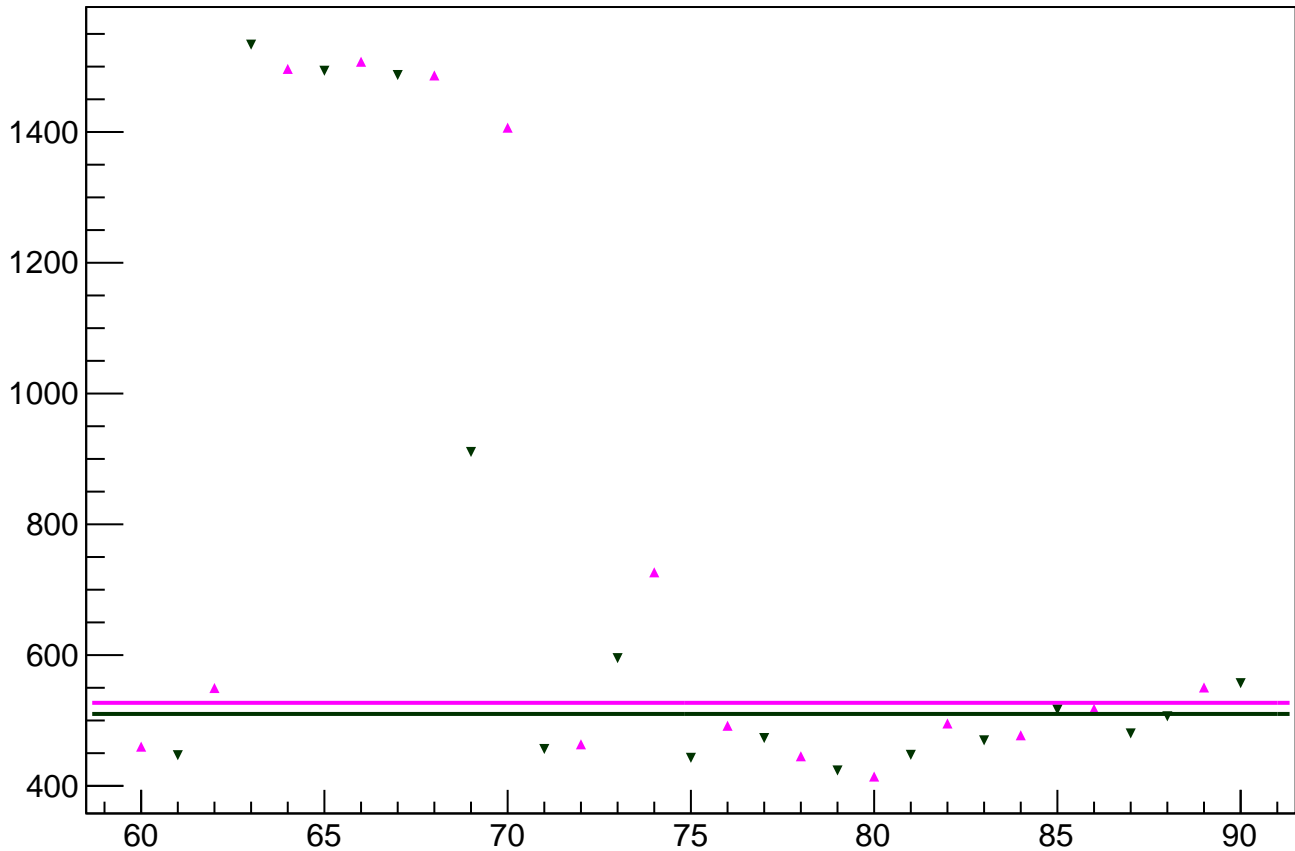
1218.418+/-198.519  $\chi^2$ /NDF: 37.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-47.477+/-208.735  $\chi^2$ /NDF: 57.2/14

Left In: -47.477+/-208.735  $\chi^2$ /NDF:57.2/14

# cor\_sam5\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 509.998+/-0.140  $\chi^2$ /NDF:1642237.7/15

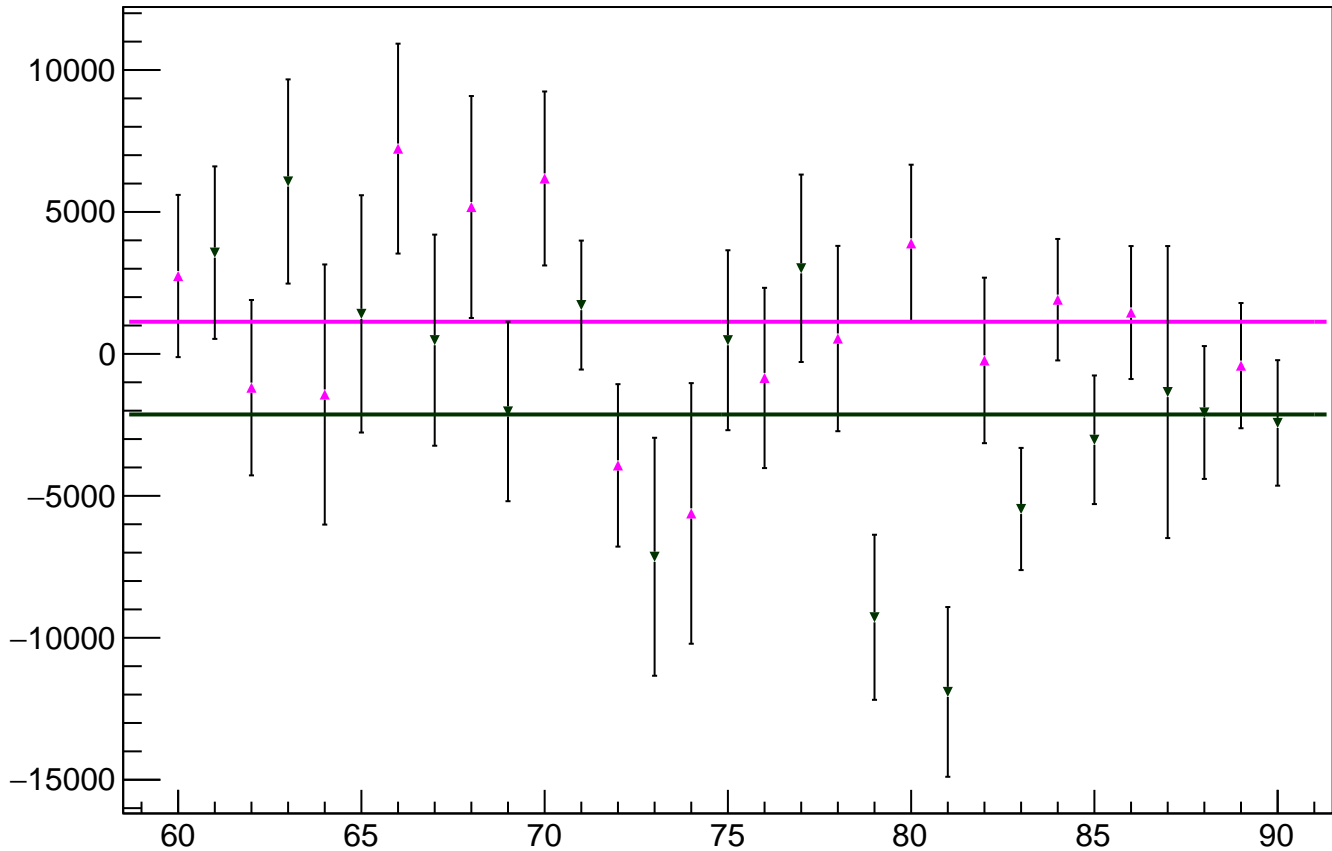
509.998+/-0.140  $\chi^2$ /NDF: 1642237.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

526.998+/-0.148  $\chi^2$ /NDF: 1950499.3/14

Left In: 526.998+/-0.148  $\chi^2$ /NDF:1950499.3/14

# cor\_sam6\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -2133.311+/-721.010  $\chi^2$ /NDF:36.7/15

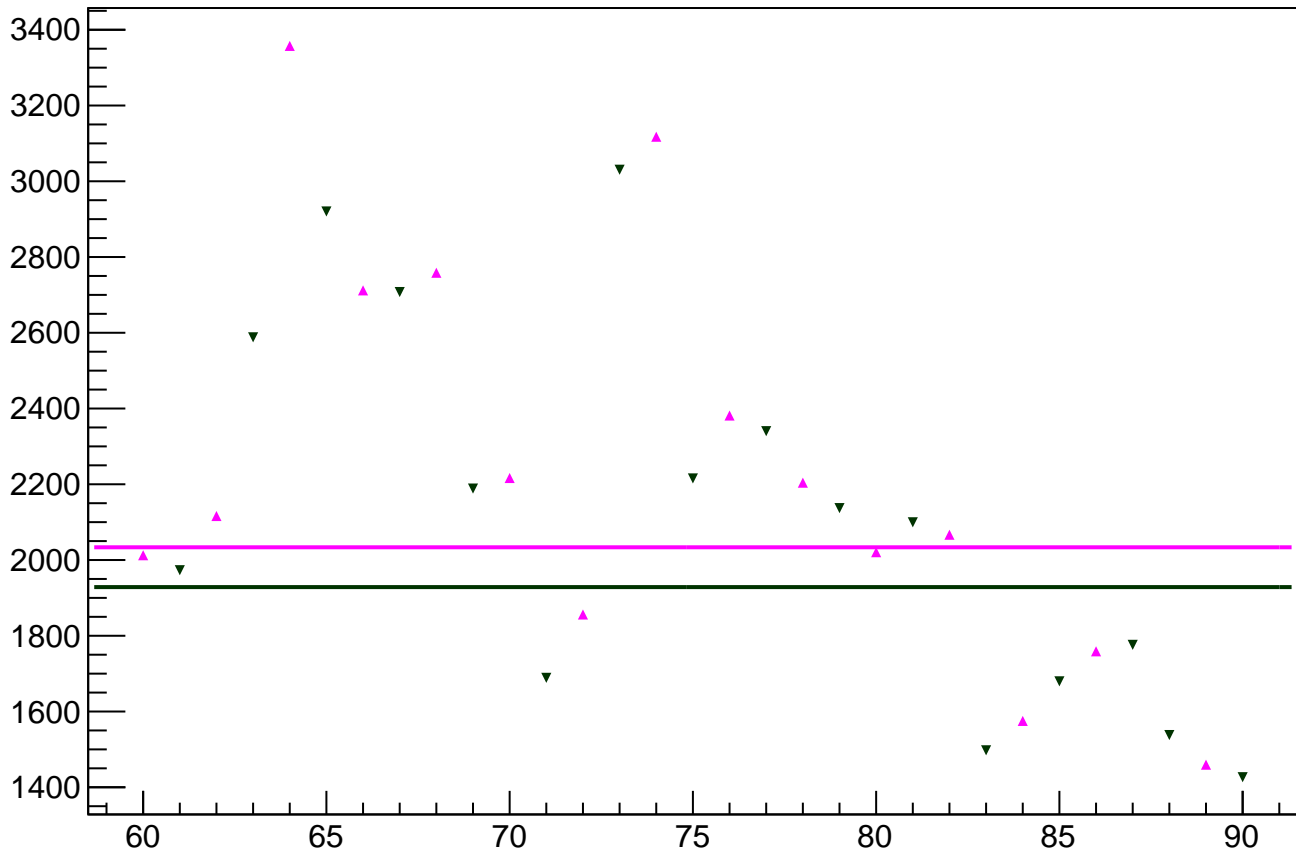
-2133.311+/-721.010  $\chi^2$ /NDF: 36.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1132.698+/-758.714  $\chi^2$ /NDF: 15.3/14

Left In: 1132.698+/-758.714  $\chi^2$ /NDF:15.3/14

# cor\_sam6\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1928.513+/-0.510  $\chi^2$ /NDF:771468.7/15

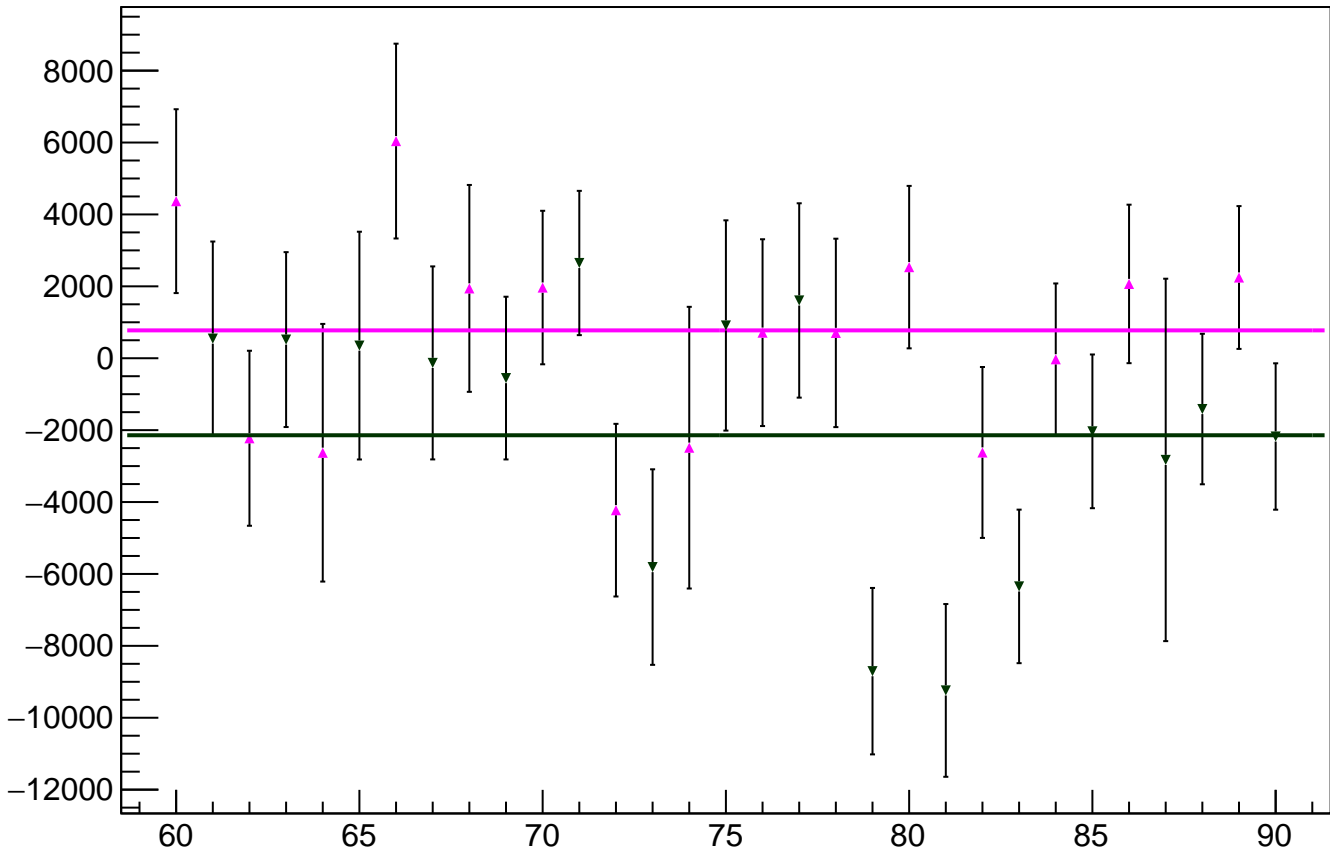
1928.513+/-0.510  $\chi^2$ /NDF: 771468.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2033.599+/-0.536  $\chi^2$ /NDF: 715600.2/14

Left In: 2033.599+/-0.536  $\chi^2$ /NDF:715600.2/14

# cor\_sam7\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2142.323+/-610.399  $\chi^2/\text{NDF}$ : 35.2/15

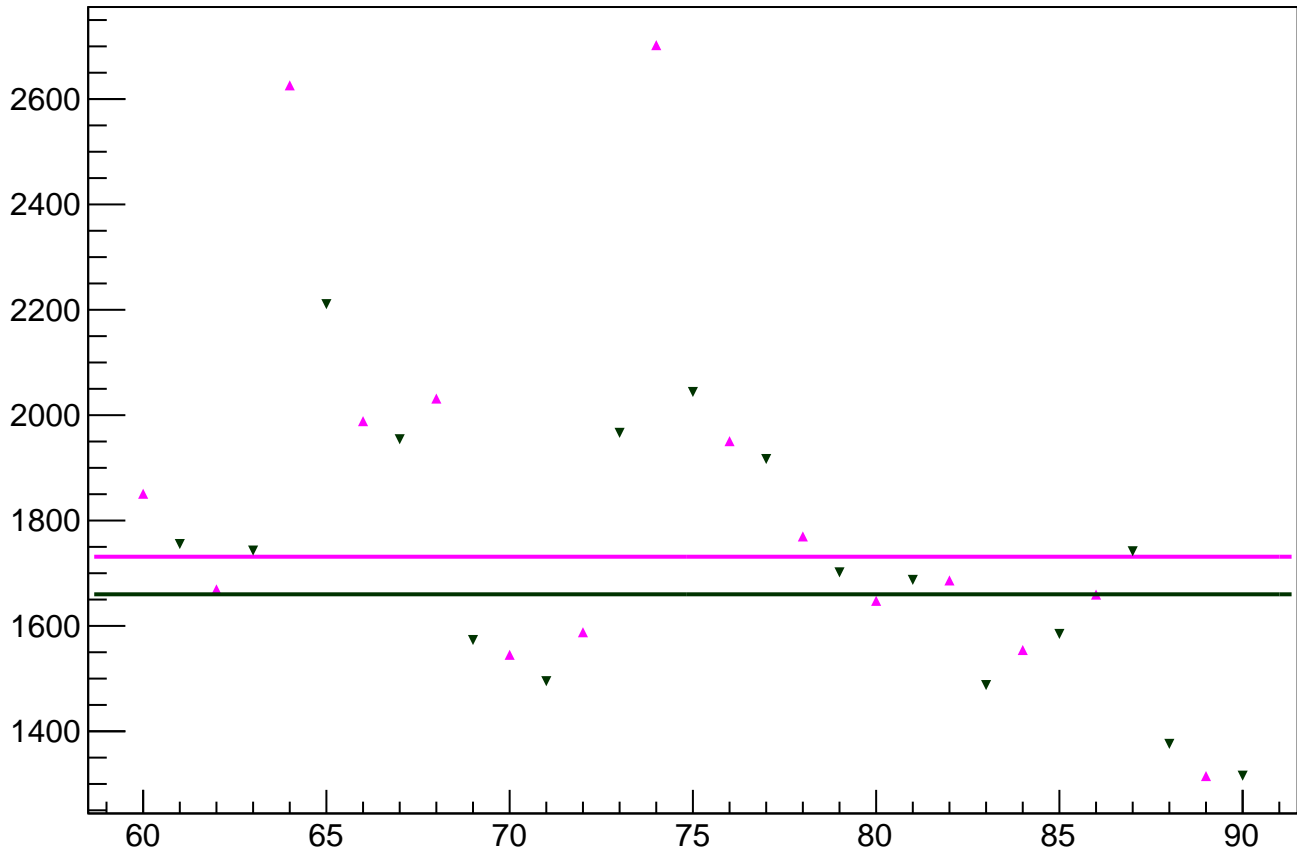
Left Out: -2142.323+/-610.399  $\chi^2/\text{NDF}$ : 35.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

774.867+/-636.865  $\chi^2/\text{NDF}$ : 17.4/14

Left In: 774.867+/-636.865  $\chi^2/\text{NDF}$ : 17.4/14

# cor\_sam7\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1659.982+/-0.432  $\chi^2$ /NDF: 294611.3/15

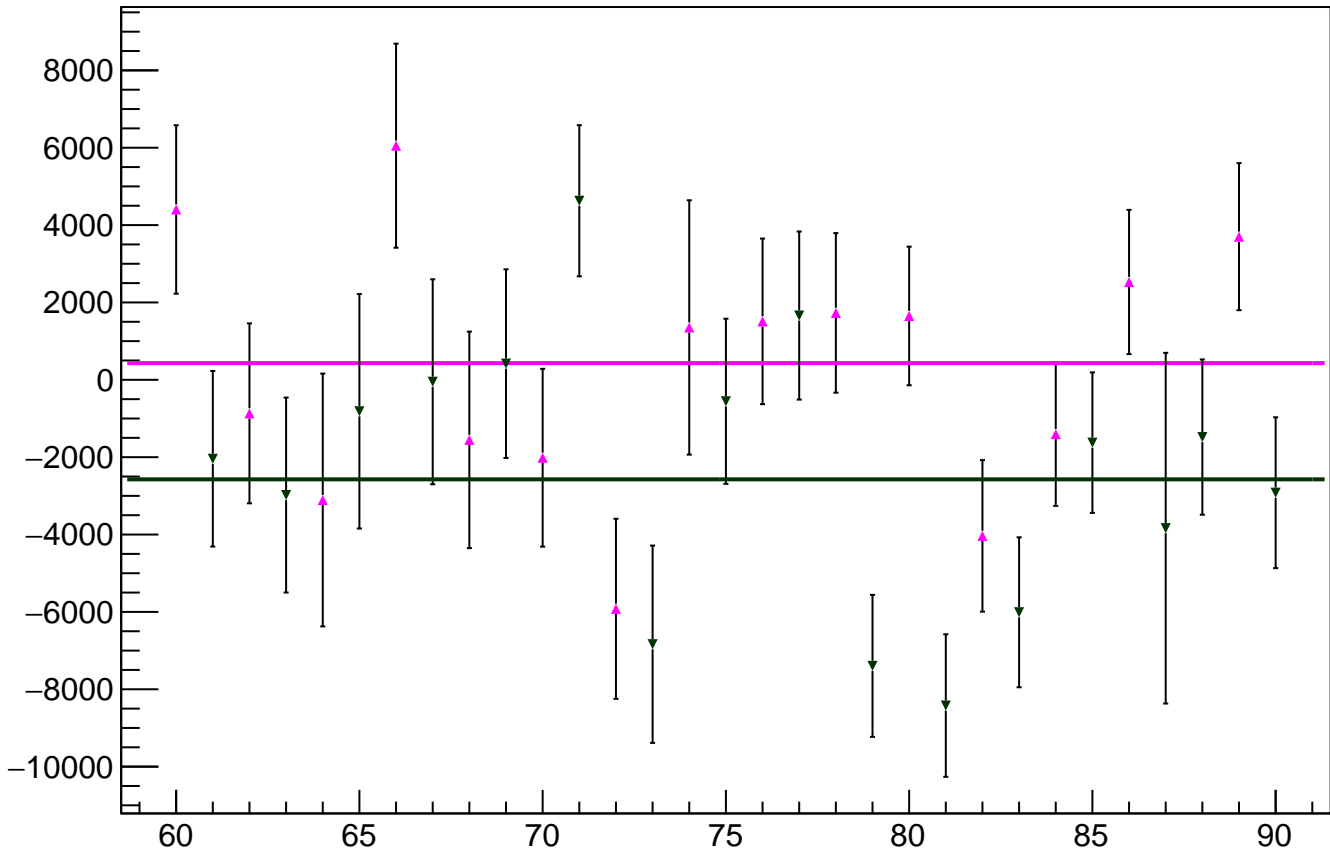
Left Out: 1659.982+/-0.432  $\chi^2$ /NDF:294611.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1731.322+/-0.450  $\chi^2$ /NDF: 437619.8/14

Left In: 1731.322+/-0.450  $\chi^2$ /NDF:437619.8/14

# cor\_sam8\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

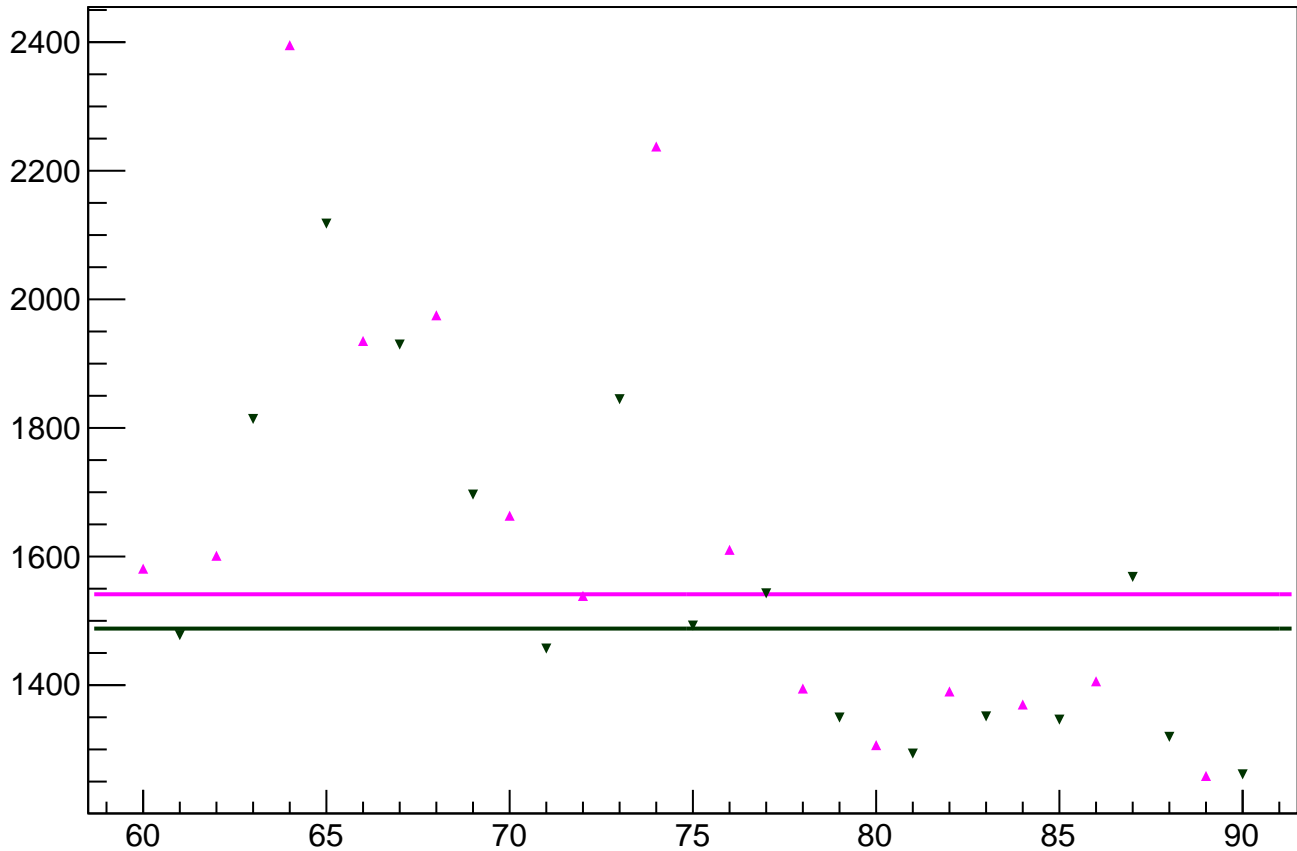
-2572.832+/-547.267  $\chi^2/\text{NDF}$ : 44.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

432.568+/-567.343  $\chi^2/\text{NDF}$ : 30.0/14

Left In: 432.568+/-567.343  $\chi^2/\text{NDF}$ : 30.0/14

# cor\_sam8\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1487.947+/-0.387  $\chi^2$ /NDF:328443.6/15

1487.947+/-0.387  $\chi^2$ /NDF: 328443.6/15

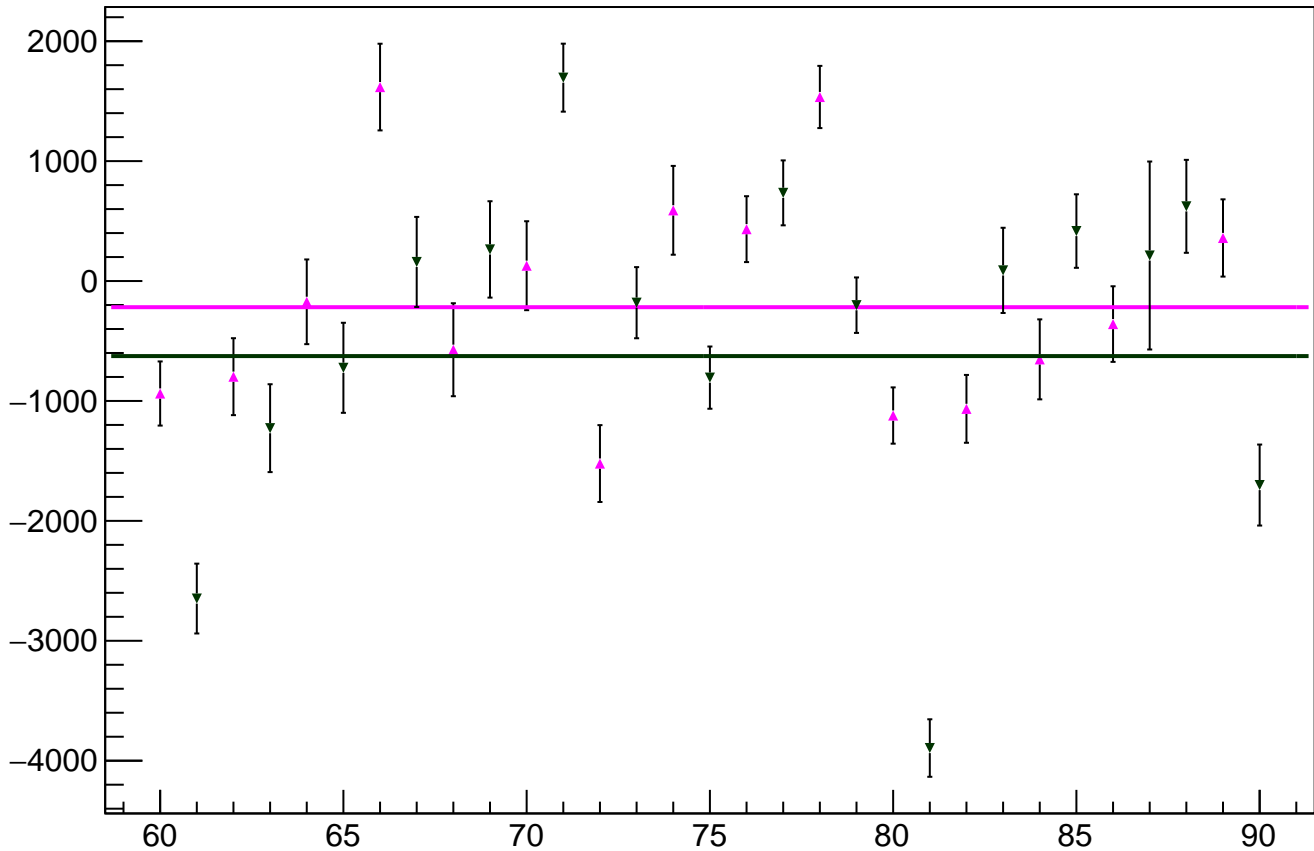
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1541.319+/-0.401  $\chi^2$ /NDF:456844.7/14

1541.319+/-0.401  $\chi^2$ /NDF: 456844.7/14



# reg\_asym\_sam1\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-625.853+/-78.178  $\chi^2$ /NDF: 381.7/15

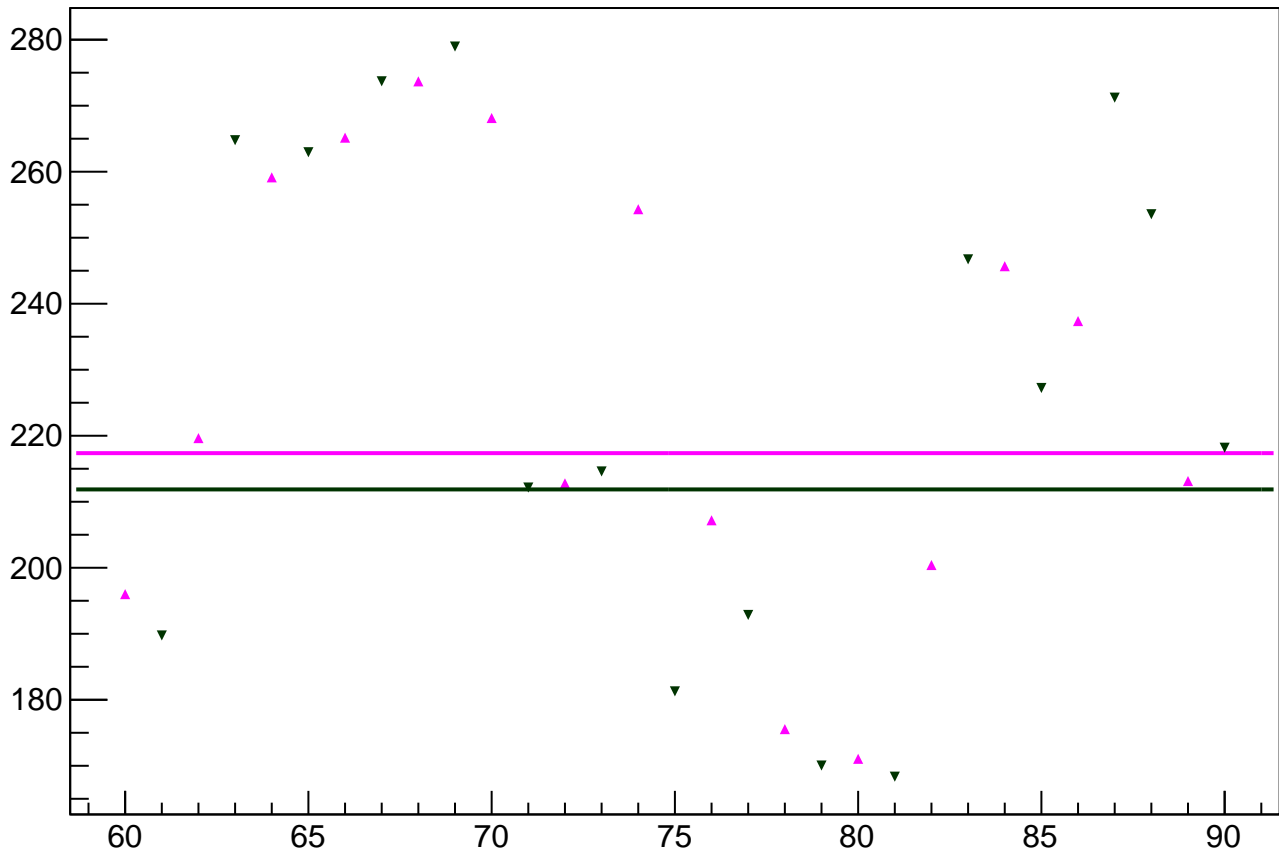
Left Out: -625.853+/-78.178  $\chi^2$ /NDF:381.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-218.160+/-79.611  $\chi^2$ /NDF: 139.5/14

Left In: -218.160+/-79.611  $\chi^2$ /NDF:139.5/14

# reg\_asym\_sam1\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 211.868+/-0.055  $\chi^2/\text{NDF}$ : 428875.7/15

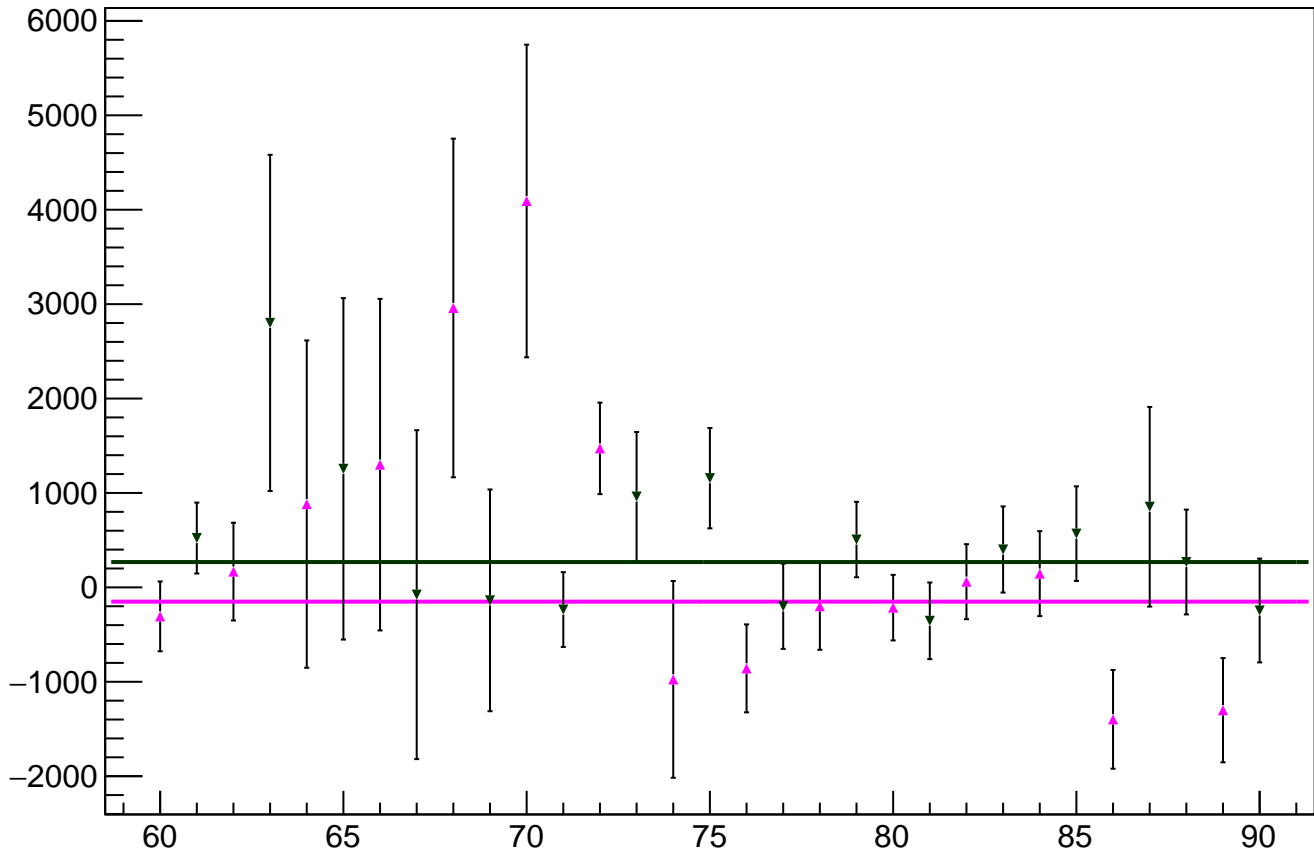
211.868+/-0.055  $\chi^2/\text{NDF}$ : 428875.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 217.364+/-0.056  $\chi^2/\text{NDF}$ : 338418.2/14

217.364+/-0.056  $\chi^2/\text{NDF}$ : 338418.2/14

# asym\_sam1\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

268.181+/-135.701  $\chi^2/\text{NDF}$ : 13.8/15

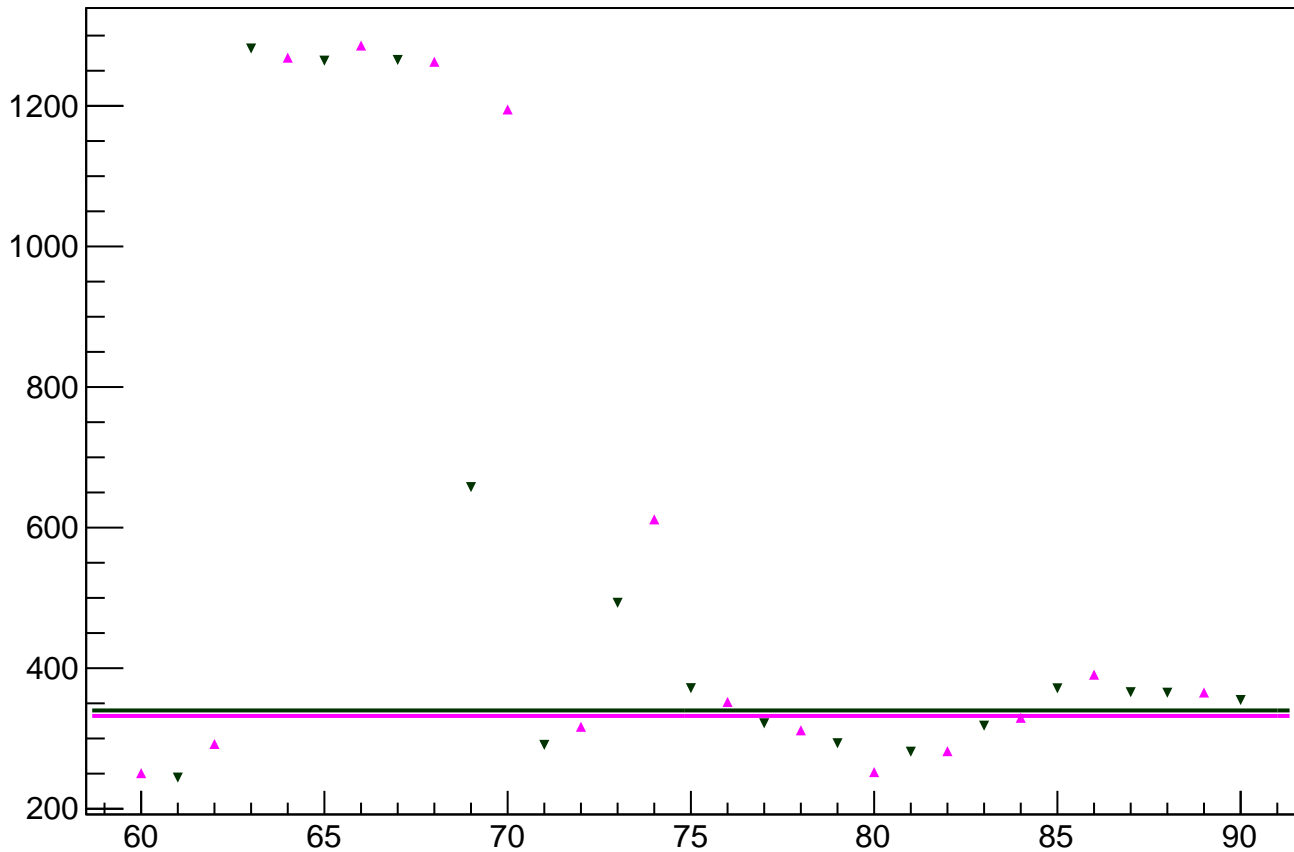
Left Out: 268.181+/-135.701  $\chi^2/\text{NDF}$ :13.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-151.273+/-136.873  $\chi^2/\text{NDF}$ : 36.1/14

Left In: -151.273+/-136.873  $\chi^2/\text{NDF}$ :36.1/14

# asym\_sam1\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 339.889+/-0.096  $\chi^2$ /NDF:2152065.9/15

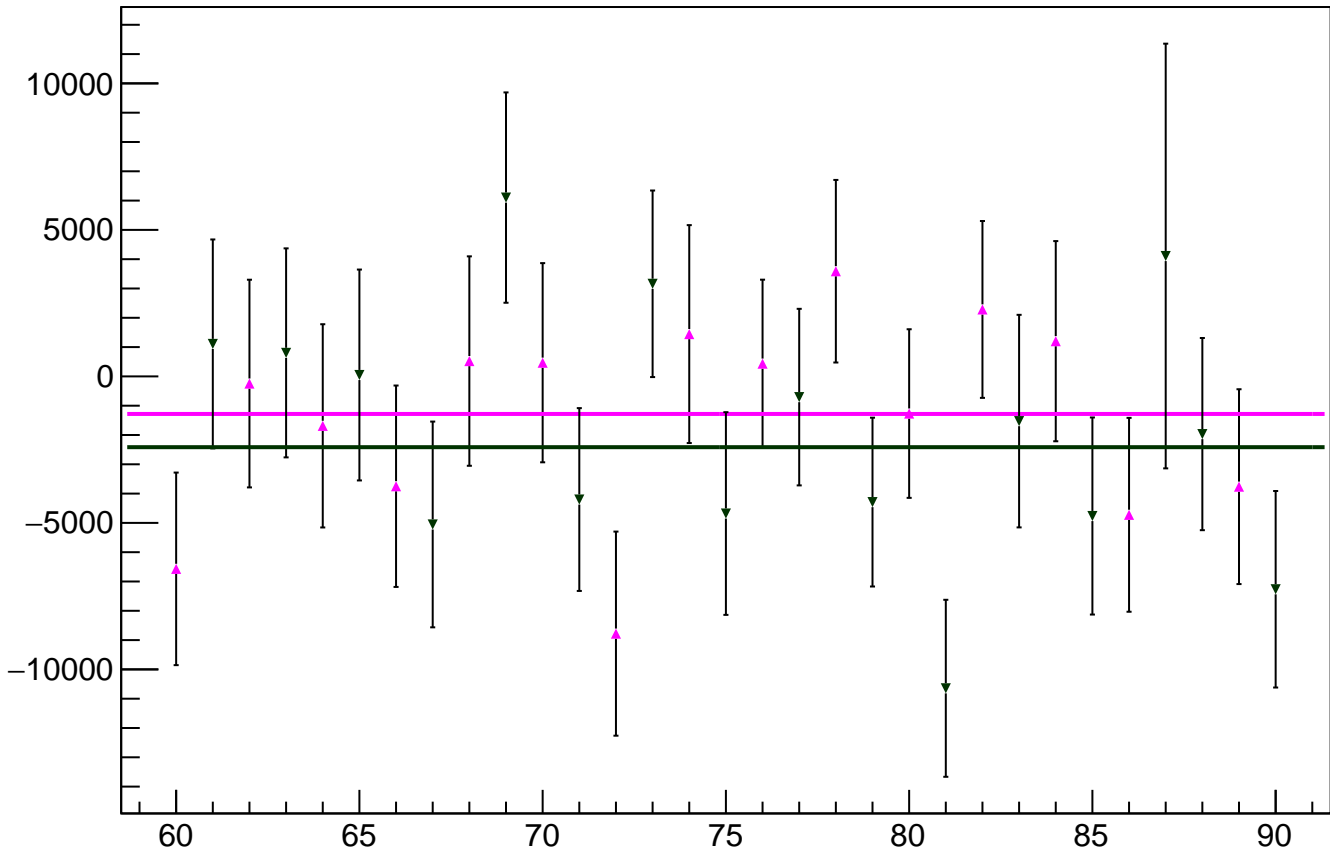
339.889+/-0.096  $\chi^2$ /NDF: 2152065.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 332.071+/-0.097  $\chi^2$ /NDF:2688178.0/14

332.071+/-0.097  $\chi^2$ /NDF: 2688178.0/14

# reg\_asym\_sam2\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-2415.943+/-850.082  $\chi^2/\text{NDF}$ : 23.9/15

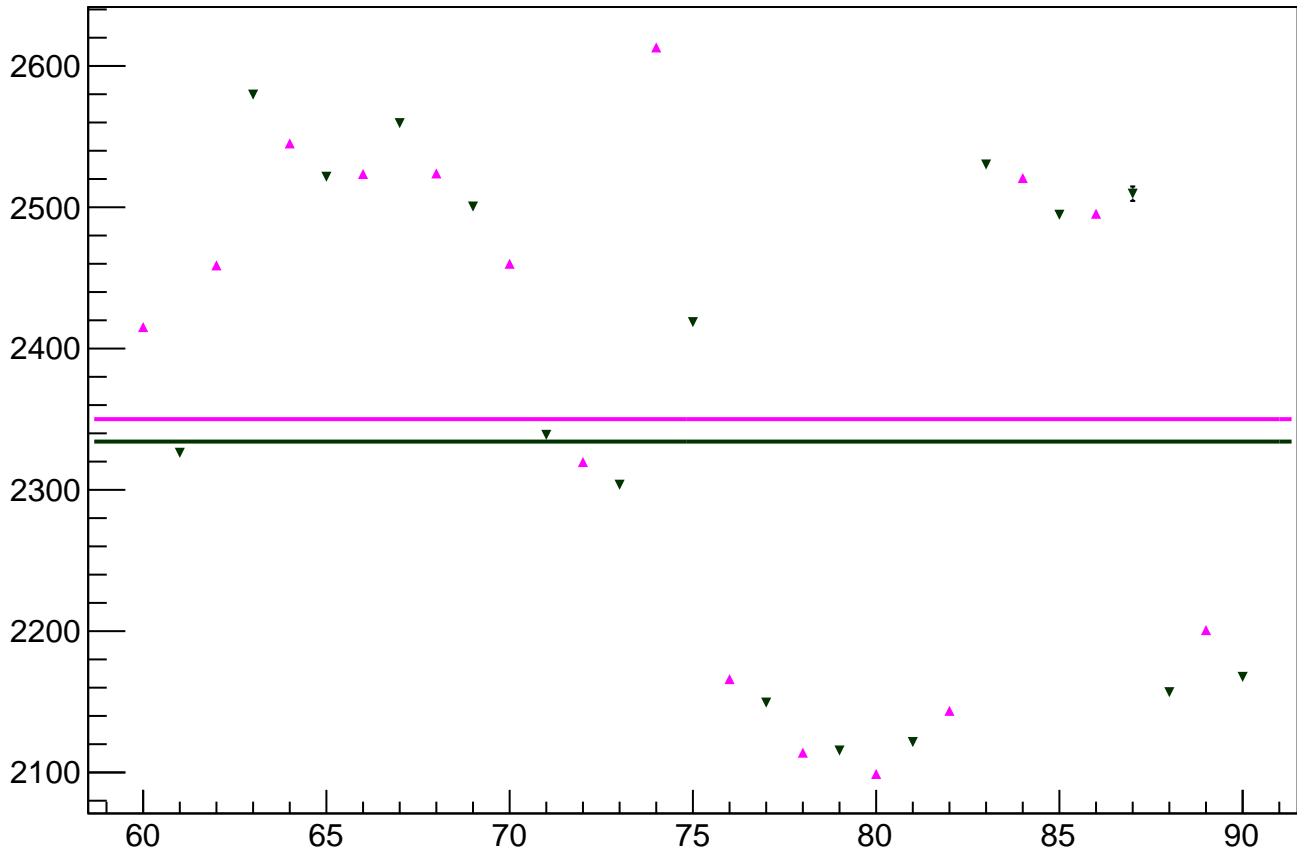
Left Out: -2415.943+/-850.082  $\chi^2/\text{NDF}$ : 23.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1281.841+/-850.499  $\chi^2/\text{NDF}$ : 15.3/14

Left In: -1281.841+/-850.499  $\chi^2/\text{NDF}$ : 15.3/14

# reg\_asym\_sam2\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2334.171+/-0.601  $\chi^2/\text{NDF}$ :80143.0/15

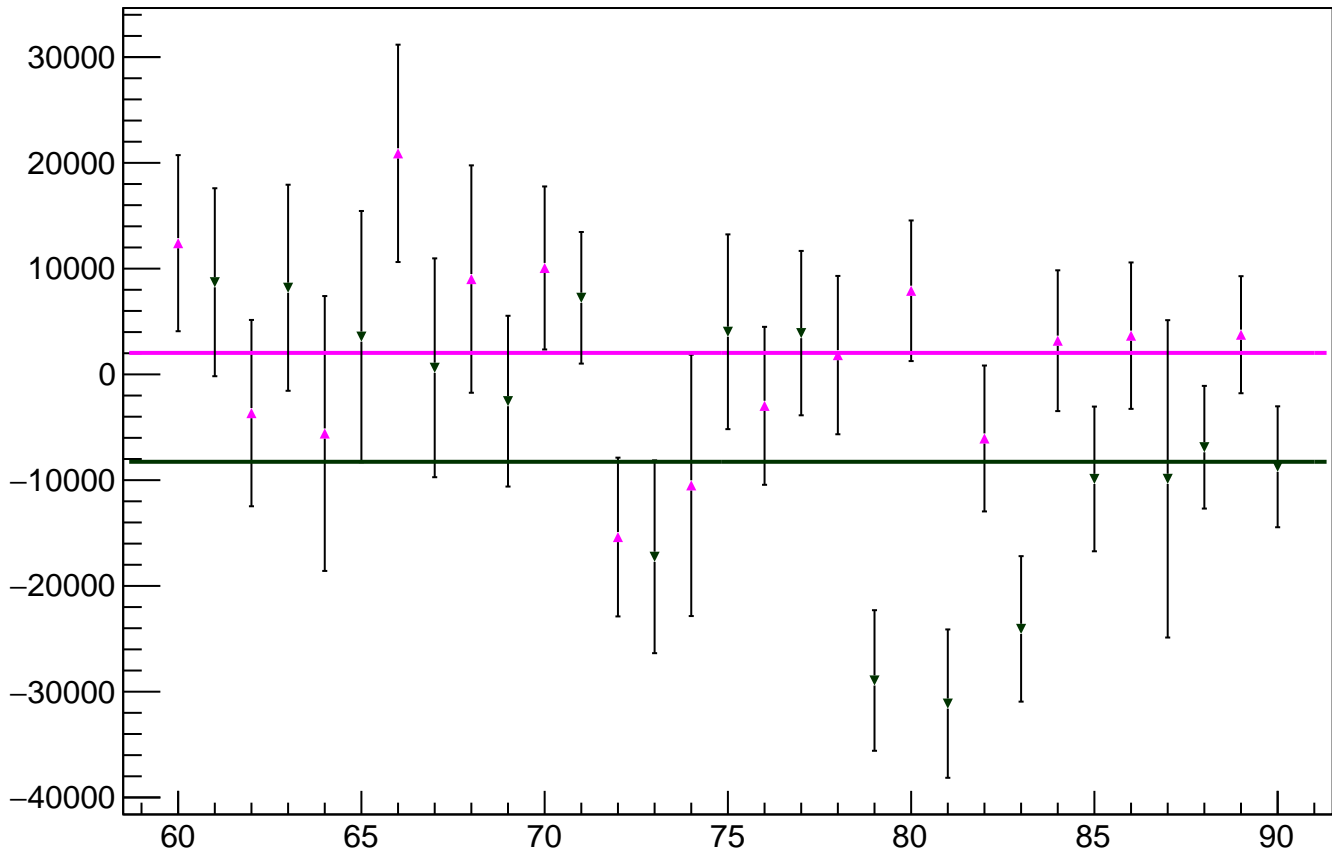
2334.171+/-0.601  $\chi^2/\text{NDF}$ : 80143.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2350.045+/-0.601  $\chi^2/\text{NDF}$ : 88287.0/14

Left In: 2350.045+/-0.601  $\chi^2/\text{NDF}$ :88287.0/14

# asym\_sam2\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -8263.014+/-1919.439  $\chi^2/\text{NDF}$ : 45.9/15

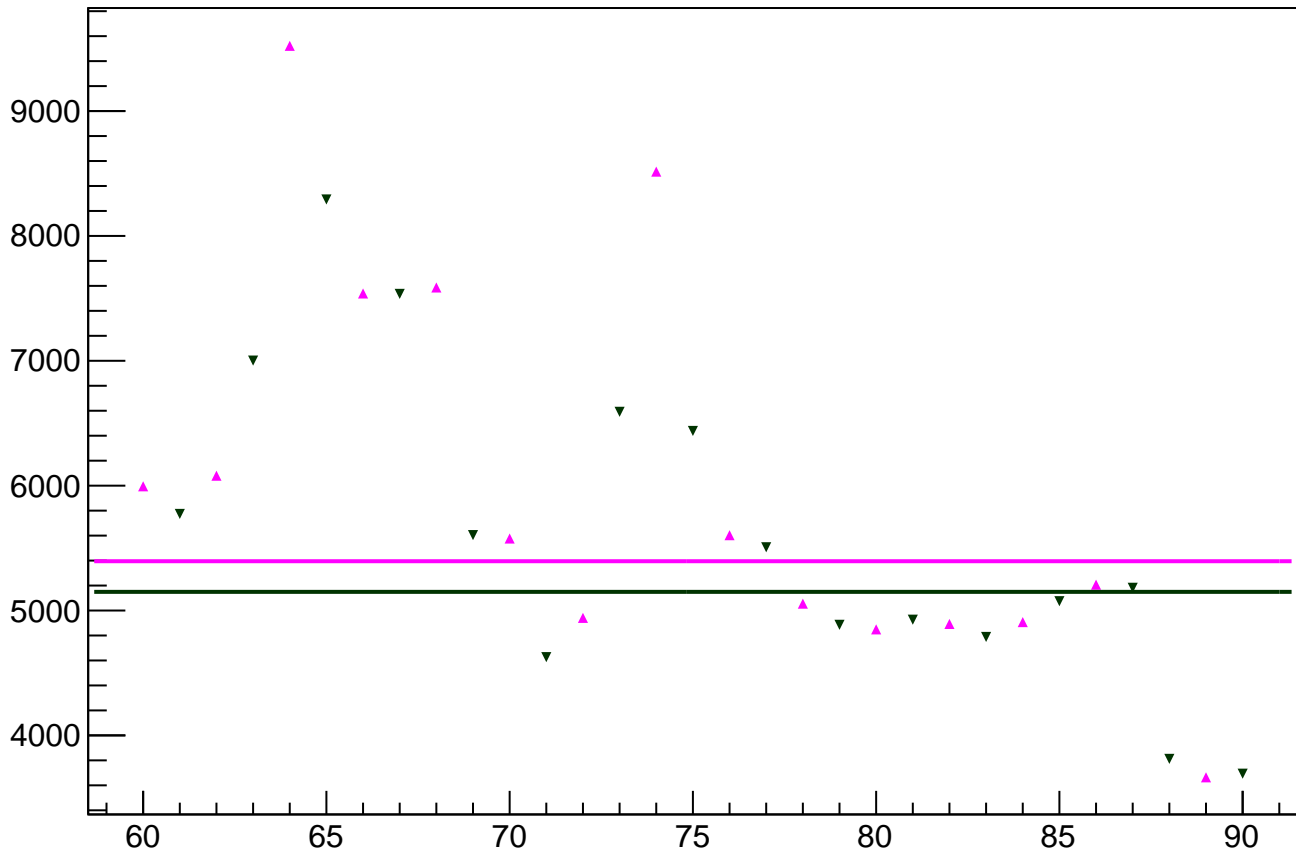
-8263.014+/-1919.439  $\chi^2/\text{NDF}$ : 45.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2032.572+/-2008.014  $\chi^2/\text{NDF}$ : 16.4/14

Left In: 2032.572+/-2008.014  $\chi^2/\text{NDF}$ : 16.4/14

# asym\_sam2\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5149.512+/-1.357  $\chi^2$ /NDF:689513.4/15

5149.512+/-1.357  $\chi^2$ /NDF: 689513.4/15

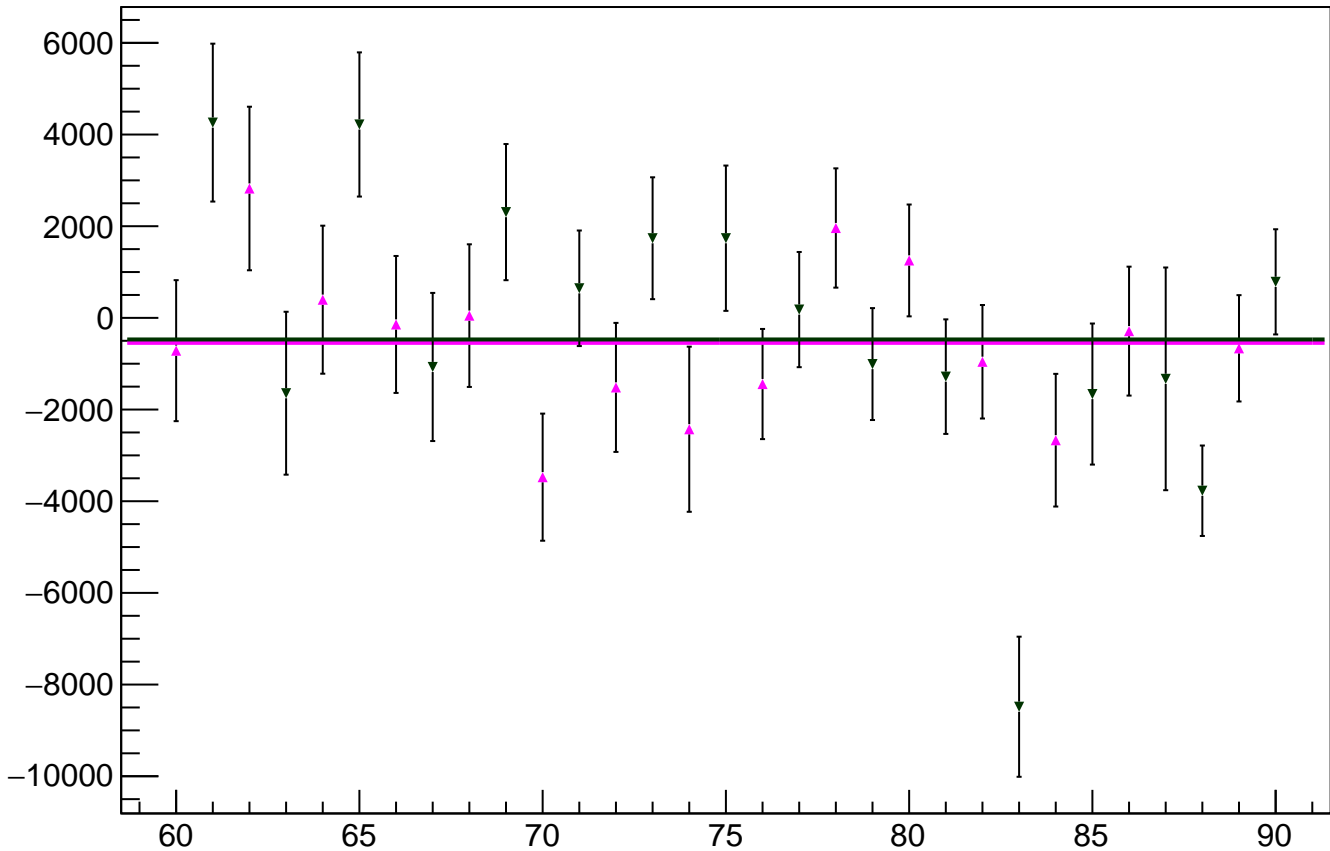
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5394.840+/-1.420  $\chi^2$ /NDF: 768038.6/14

Left In: 5394.840+/-1.420  $\chi^2$ /NDF:768038.6/14



# reg\_asym\_sam3\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-471.038+/-348.402  $\chi^2/\text{NDF}$ : 67.5/15

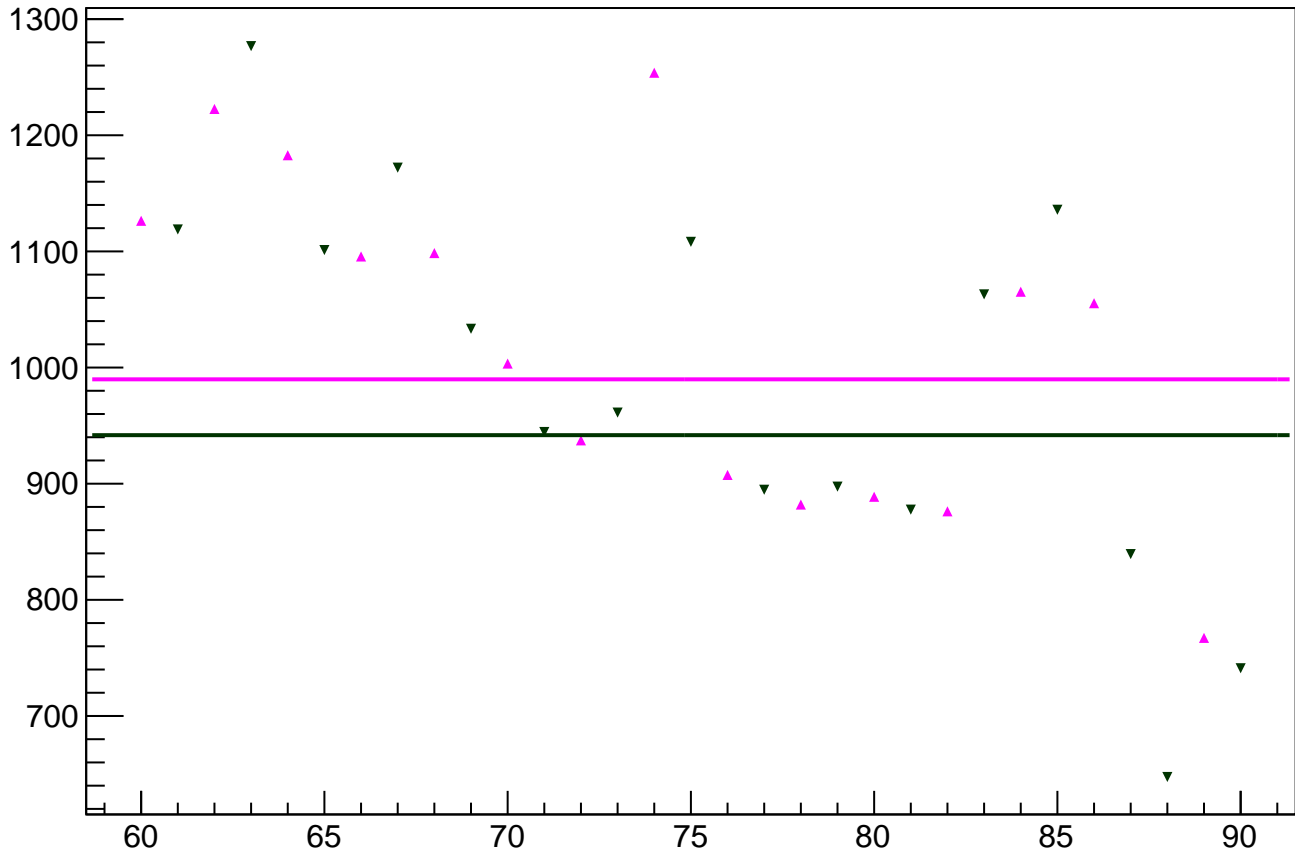
Left Out: -471.038+/-348.402  $\chi^2/\text{NDF}$ : 67.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-544.817+/-361.599  $\chi^2/\text{NDF}$ : 18.9/14

Left In: -544.817+/-361.599  $\chi^2/\text{NDF}$ : 18.9/14

# reg\_asym\_sam3\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 941.789+/-0.246  $\chi^2$ /NDF:481246.9/15

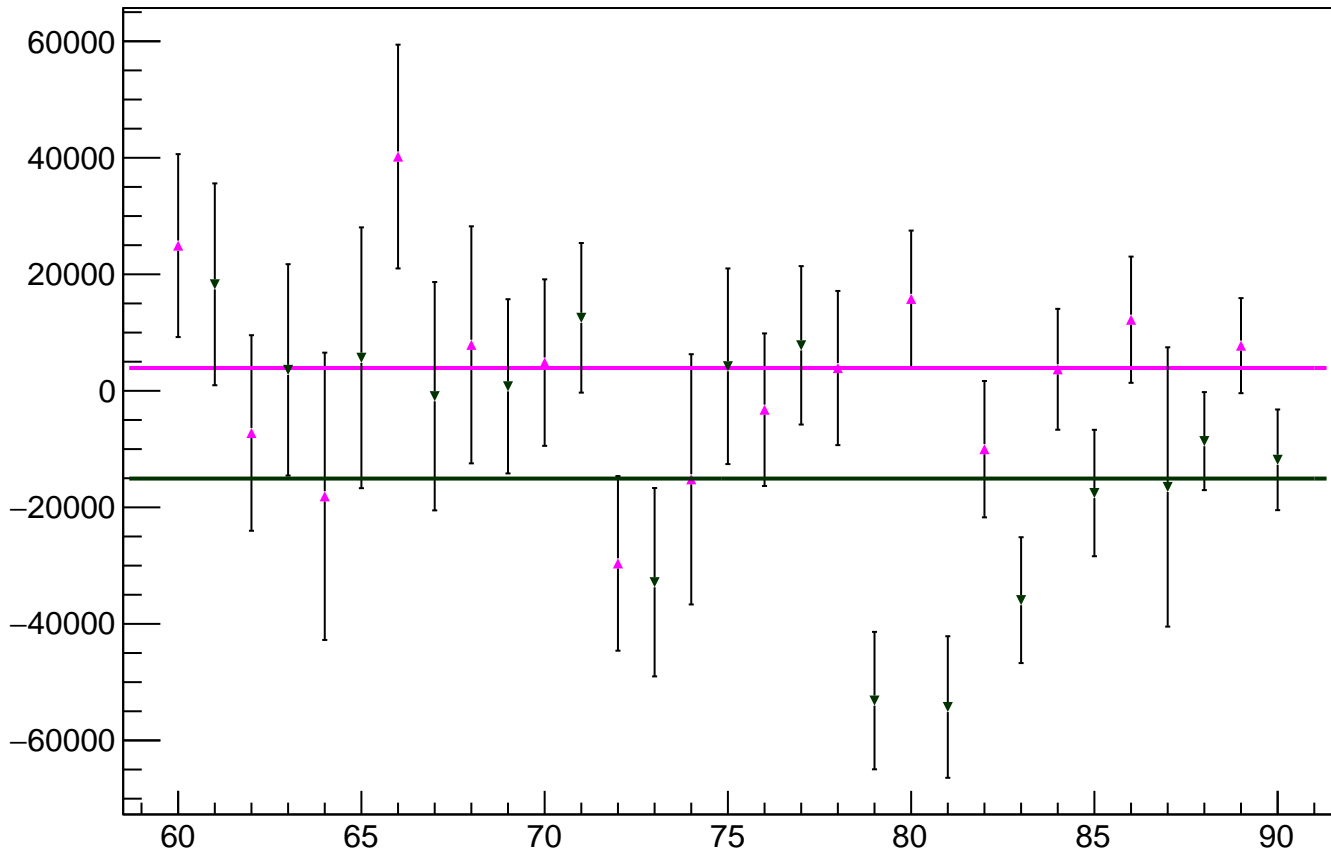
941.789+/-0.246  $\chi^2$ /NDF: 481246.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 989.855+/-0.256  $\chi^2$ /NDF:281214.1/14

989.855+/-0.256  $\chi^2$ /NDF: 281214.1/14

# asym\_sam3\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -15056.213+/-3251.589  $\chi^2/\text{NDF}$ : 42.6/15

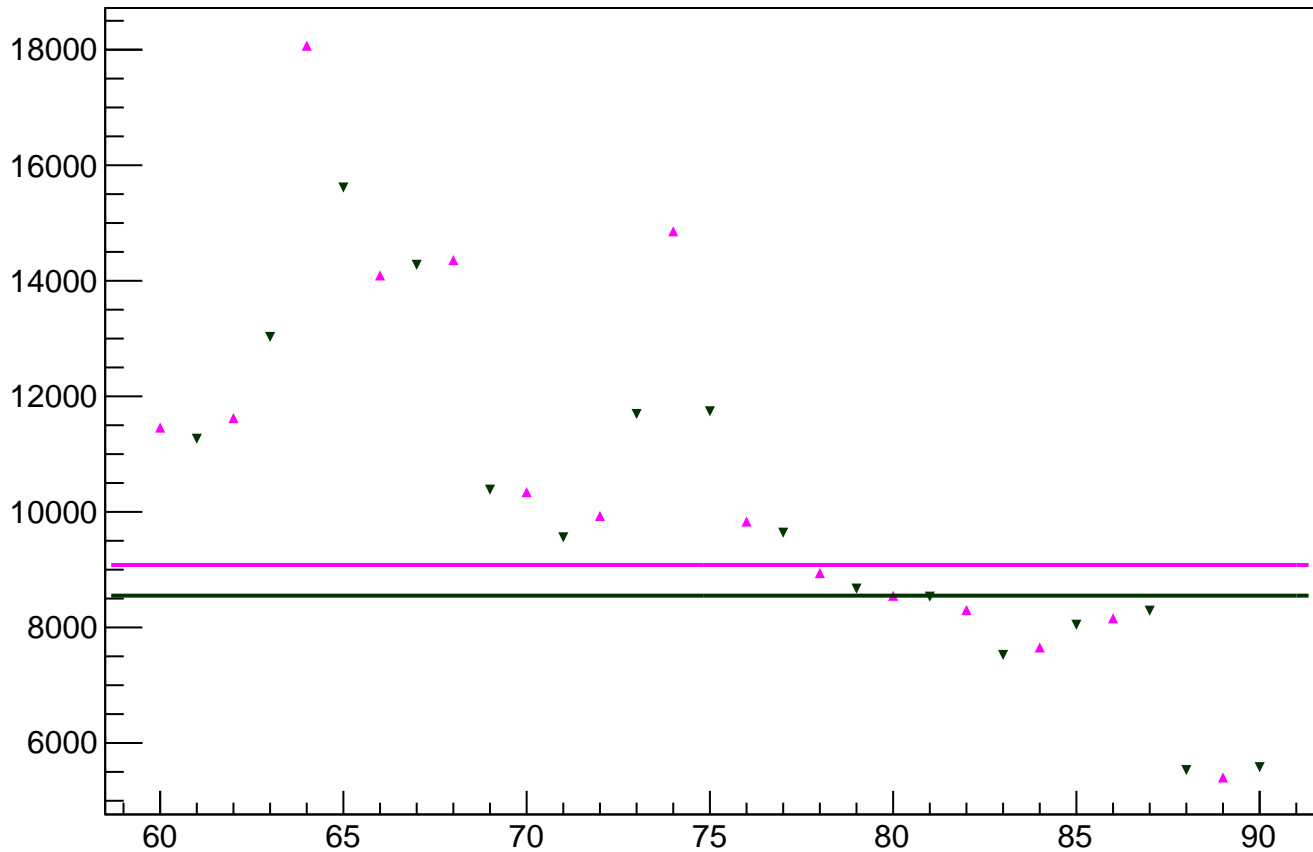
-15056.213+/-3251.589  $\chi^2/\text{NDF}$ : 42.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3923.781+/-3433.003  $\chi^2/\text{NDF}$ : 16.0/14

Left In: 3923.781+/-3433.003  $\chi^2/\text{NDF}$ : 16.0/14

# asym\_sam3\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8550.618+/-2.299  $\chi^2$ /NDF:1260710.2/15

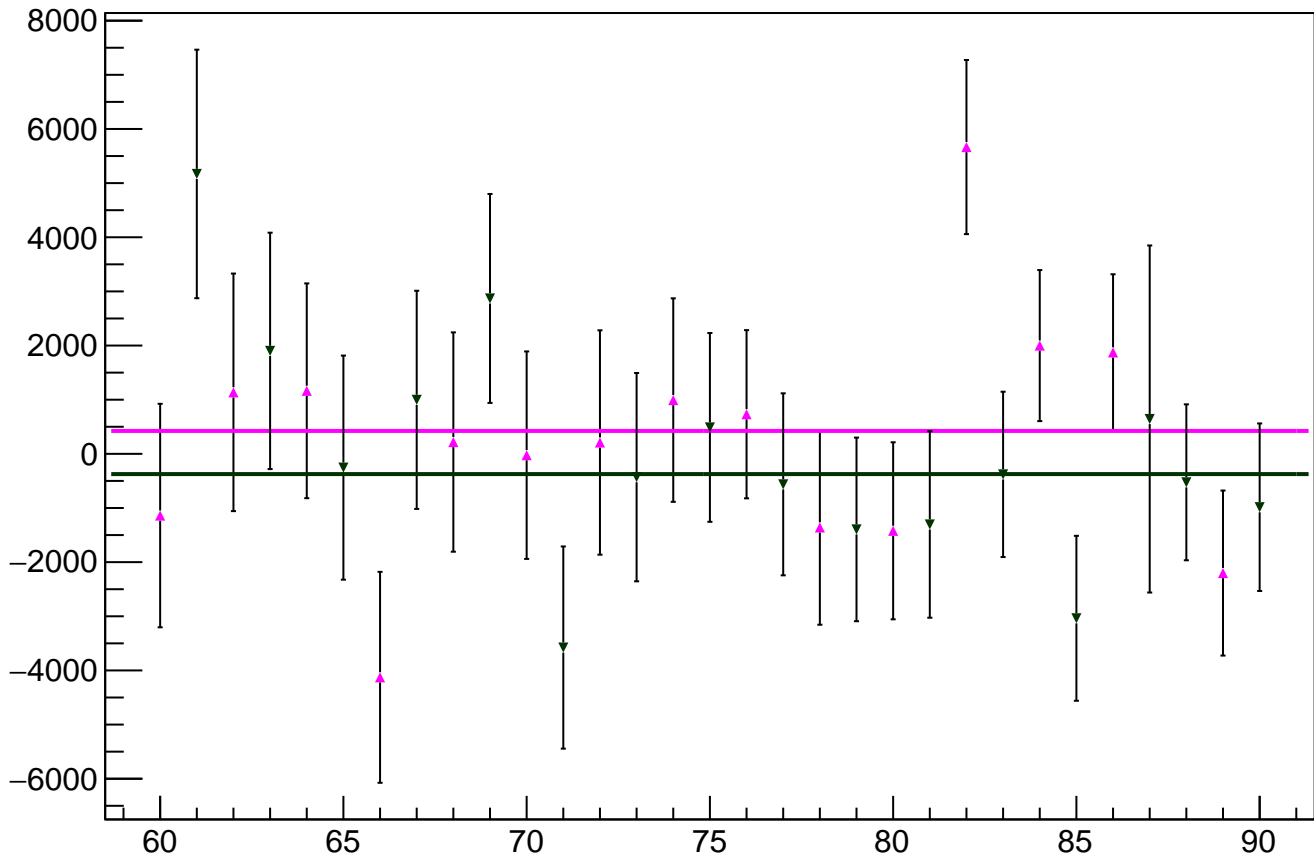
8550.618+/-2.299  $\chi^2$ /NDF: 1260710.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

9080.936+/-2.427  $\chi^2$ /NDF: 1273437.6/14

Left In: 9080.936+/-2.427  $\chi^2$ /NDF:1273437.6/14

# reg\_asym\_sam4\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -373.802+/-450.333  $\chi^2$ /NDF:17.4/15

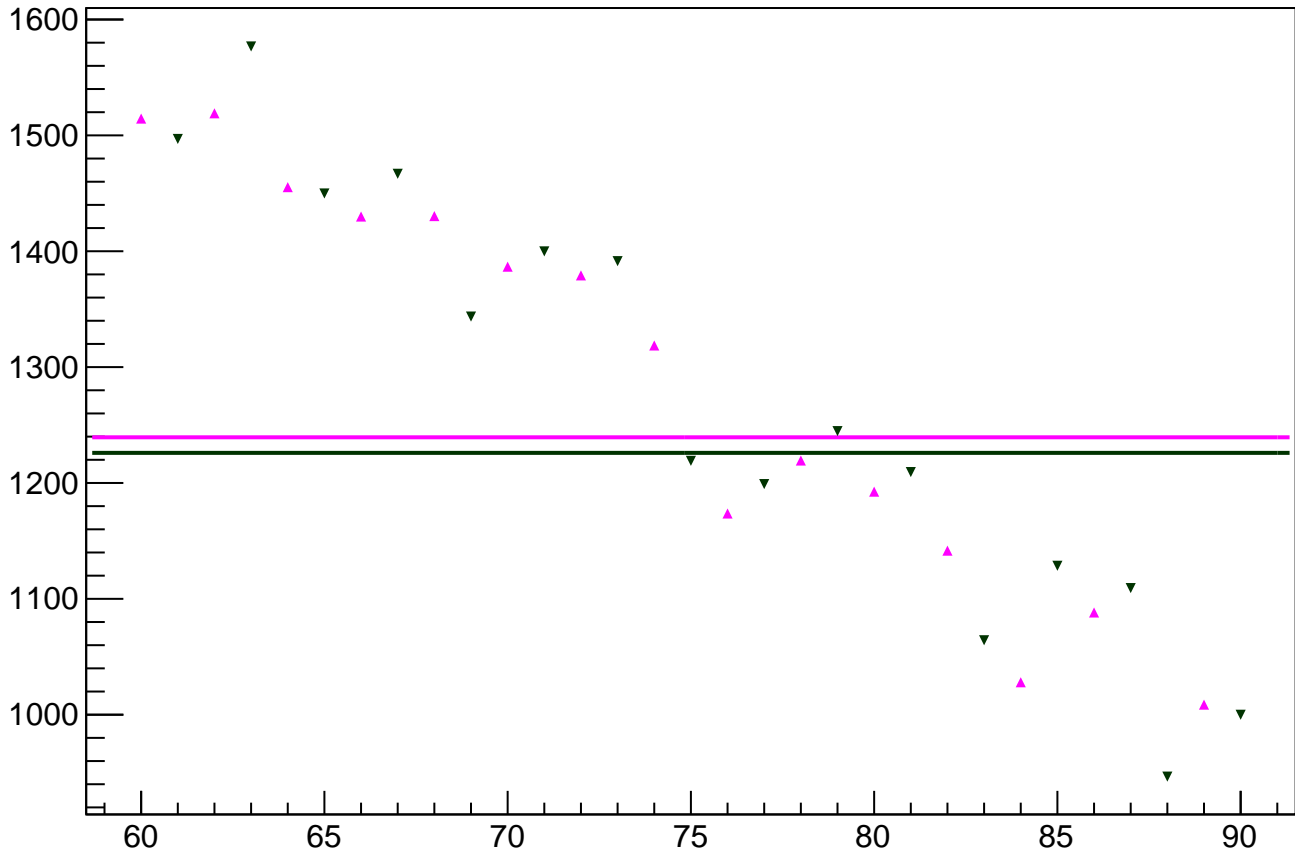
-373.802+/-450.333  $\chi^2$ /NDF: 17.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

423.157+/-451.655  $\chi^2$ /NDF: 24.6/14

Left In: 423.157+/-451.655  $\chi^2$ /NDF:24.6/14

# reg\_asym\_sam4\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1225.984+/-0.318  $\chi^2/\text{NDF}$ : 323348.0/15

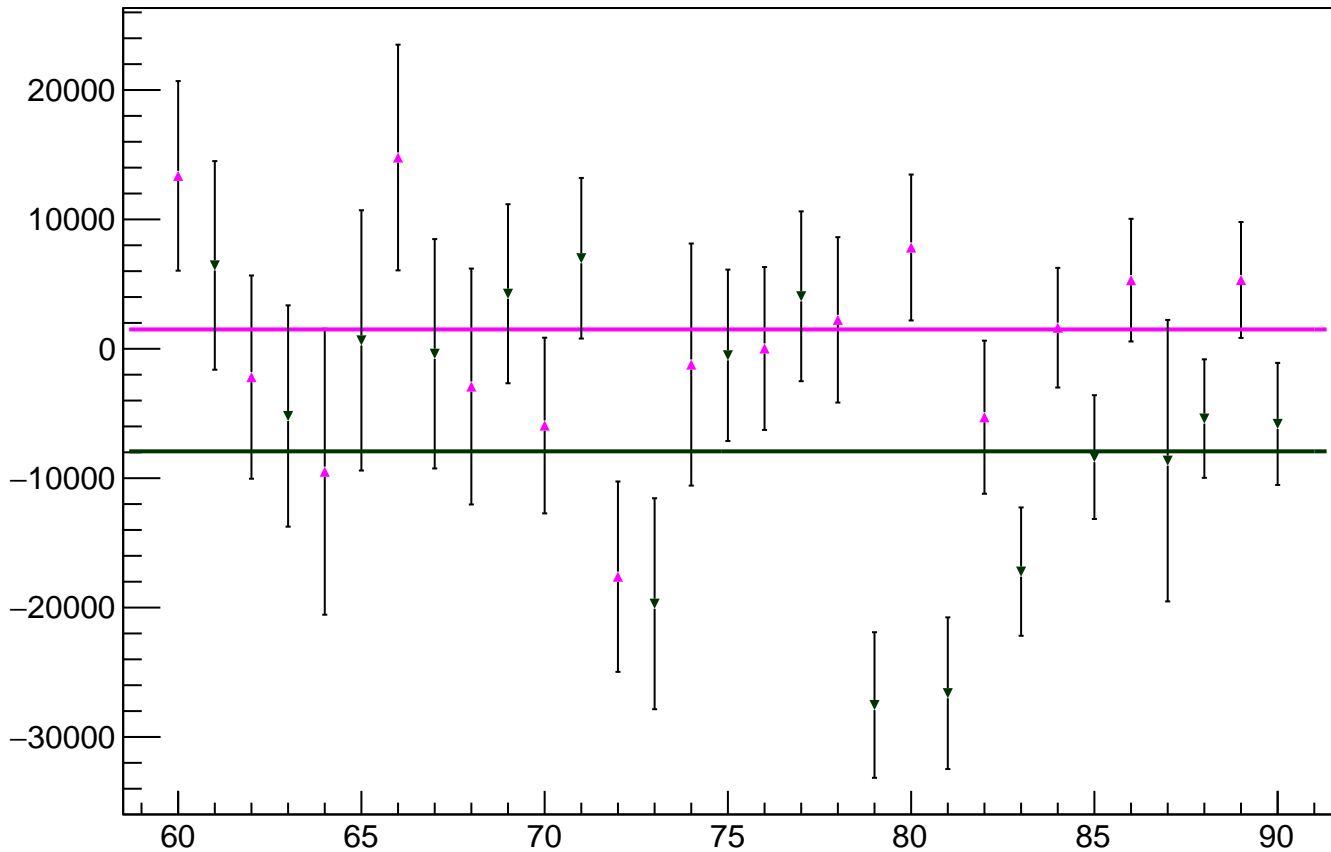
1225.984+/-0.318  $\chi^2/\text{NDF}$ : 323348.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1239.414+/-0.319  $\chi^2/\text{NDF}$ : 279721.4/14

Left In: 1239.414+/-0.319  $\chi^2/\text{NDF}$ : 279721.4/14

# asym\_sam4\_correction\_mean vs slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-7924.537 \pm 1569.899$   $\chi^2/\text{NDF}: 46.6/15$

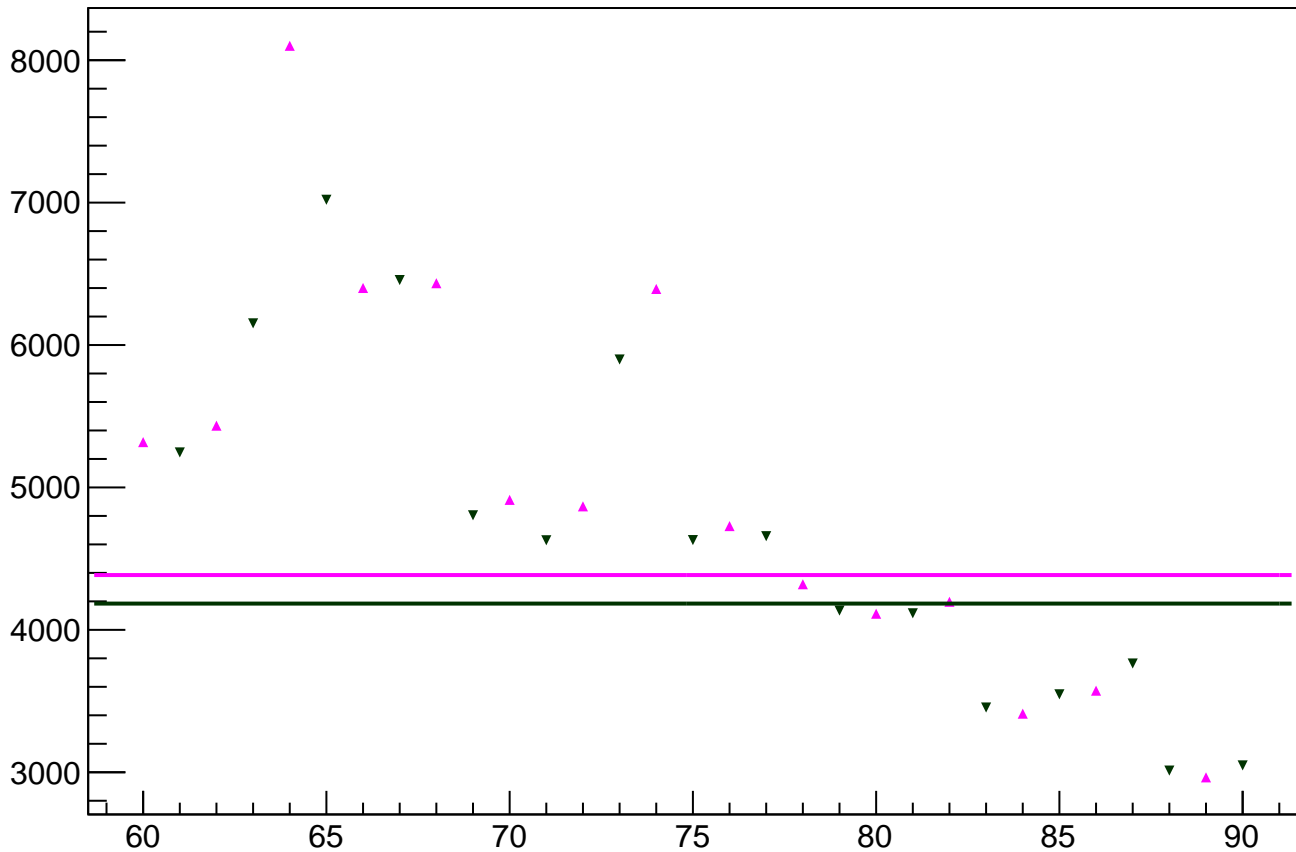
$-7924.537 \pm 1569.899$   $\chi^2/\text{NDF}: 46.6/15$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$1497.880 \pm 1642.331$   $\chi^2/\text{NDF}: 18.4/14$

Left In:  $1497.880 \pm 1642.331$   $\chi^2/\text{NDF}: 18.4/14$

# asym\_sam4\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4184.468+/-1.110  $\chi^2$ /NDF:894381.3/15

4184.468+/-1.110  $\chi^2$ /NDF: 894381.3/15

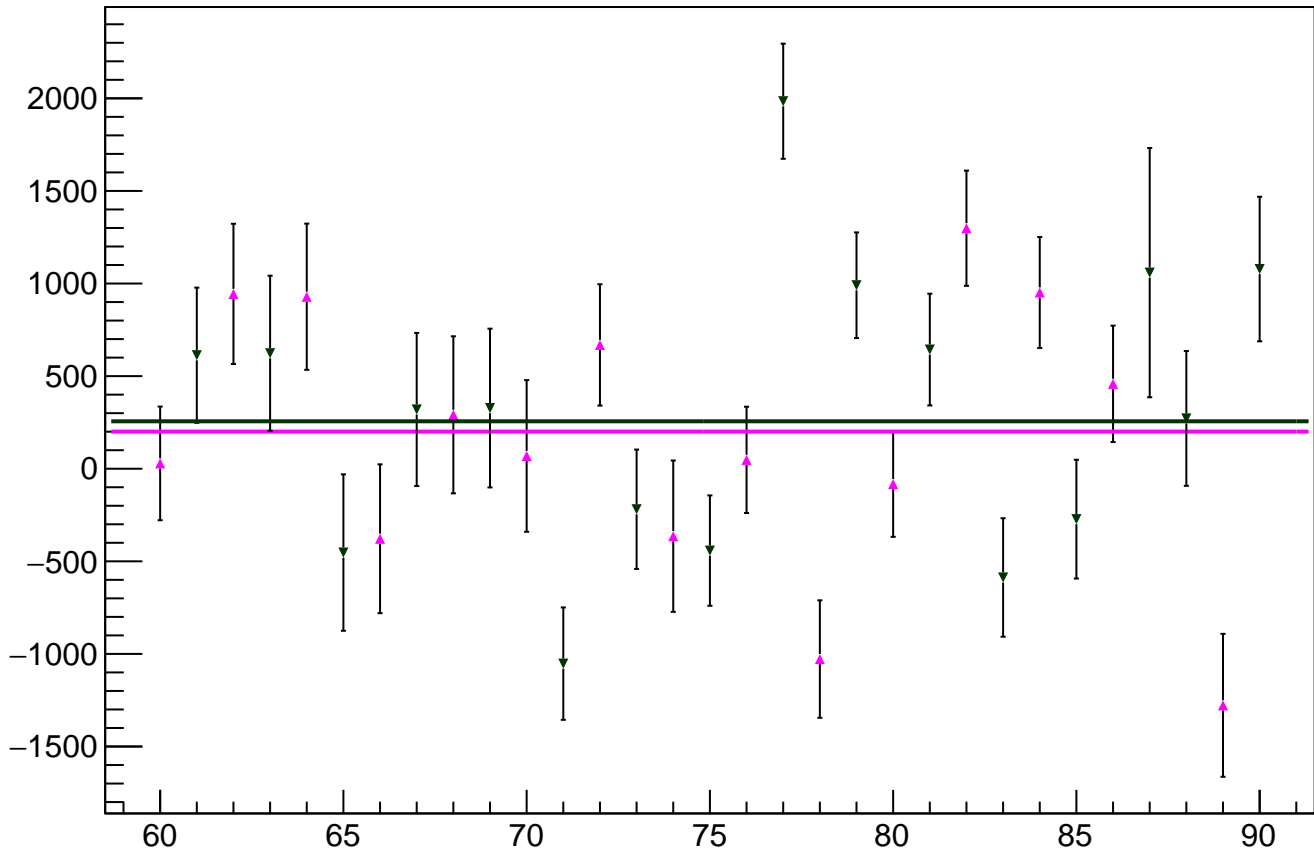
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4384.805+/-1.161  $\chi^2$ /NDF: 976610.1/14

Left In: 4384.805+/-1.161  $\chi^2$ /NDF:976610.1/14



# reg\_asym\_sam5\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

256.103+/-87.276  $\chi^2$ /NDF: 85.6/15

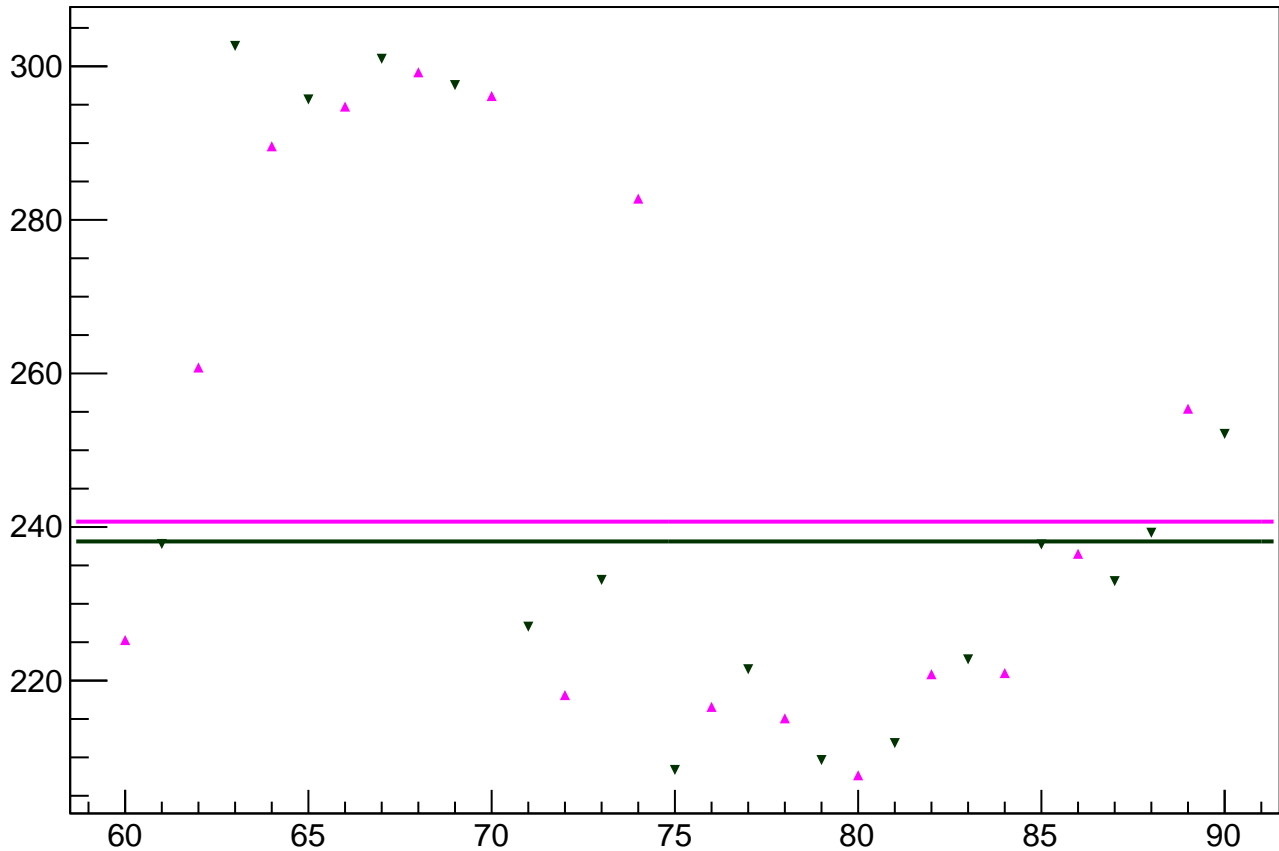
Left Out: 256.103+/-87.276  $\chi^2$ /NDF:85.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

200.459+/-87.796  $\chi^2$ /NDF: 64.1/14

Left In: 200.459+/-87.796  $\chi^2$ /NDF:64.1/14

# reg\_asym\_sam5\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 238.123+/-0.062  $\chi^2$ /NDF:240572.7/15

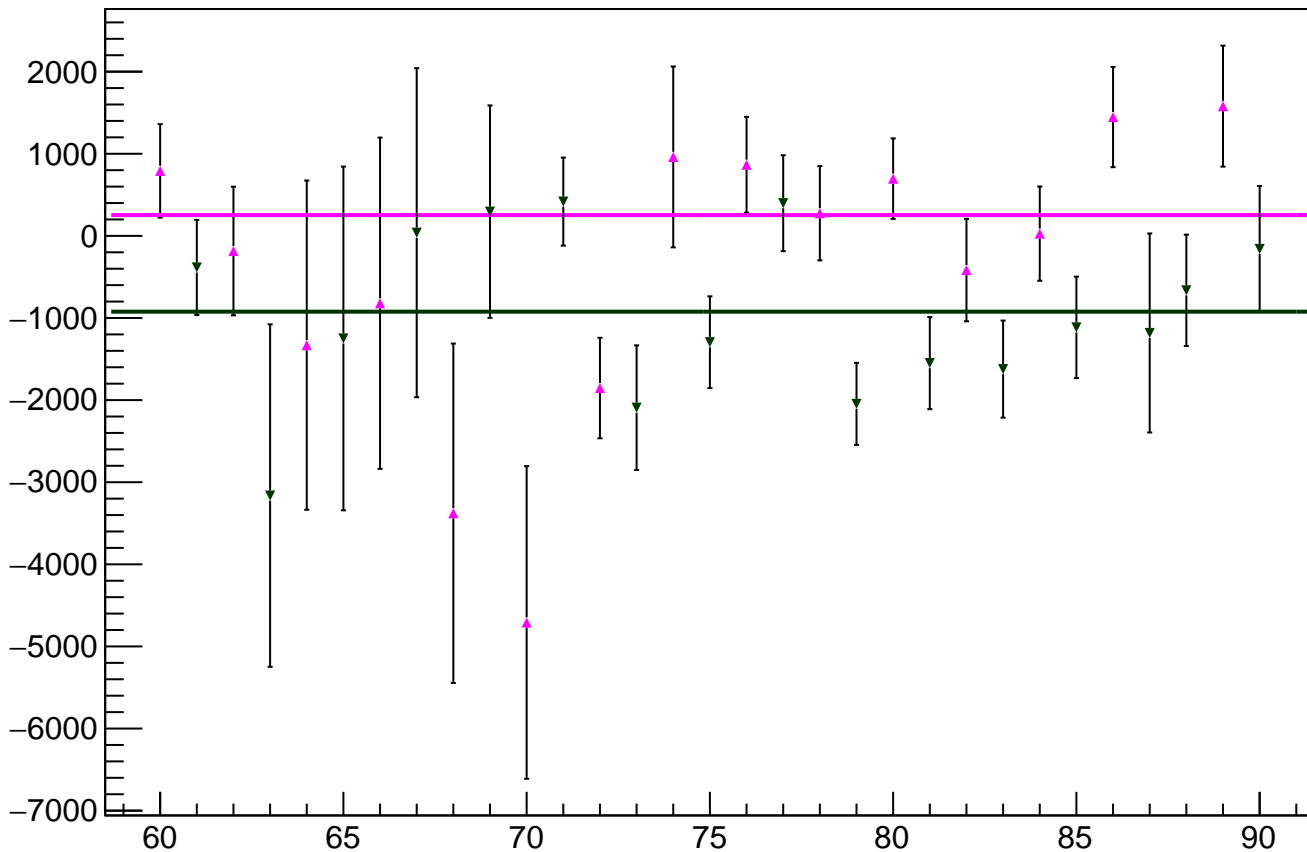
238.123+/-0.062  $\chi^2$ /NDF: 240572.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 240.701+/-0.062  $\chi^2$ /NDF:257110.7/14

240.701+/-0.062  $\chi^2$ /NDF: 257110.7/14

# asym\_sam5\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -923.187+/-174.475  $\chi^2$ /NDF:26.3/15

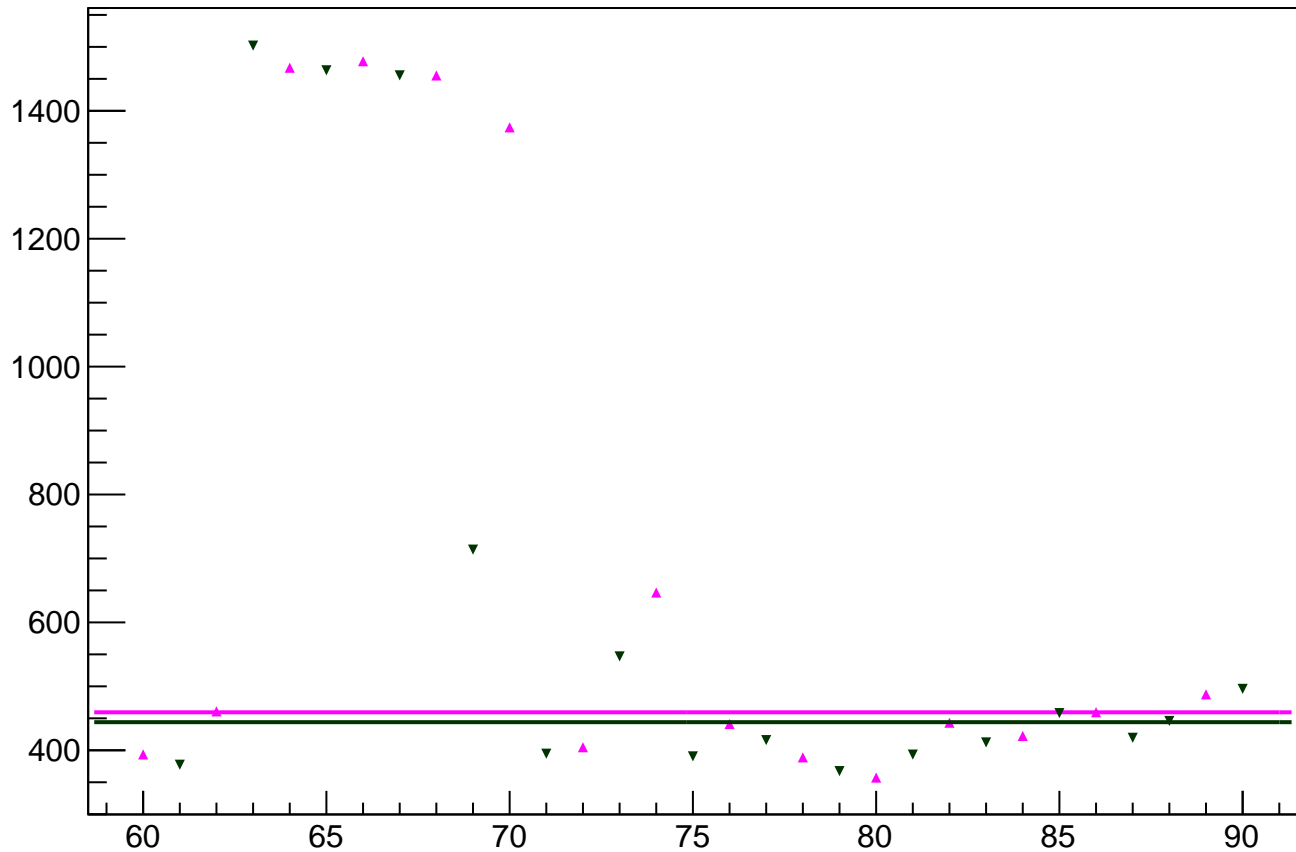
-923.187+/-174.475  $\chi^2$ /NDF: 26.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

252.842+/-184.185  $\chi^2$ /NDF: 34.6/14

Left In: 252.842+/-184.185  $\chi^2$ /NDF:34.6/14

# asym\_sam5\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 443.965+/-0.123  $\chi^2$ /NDF:1768830.0/15

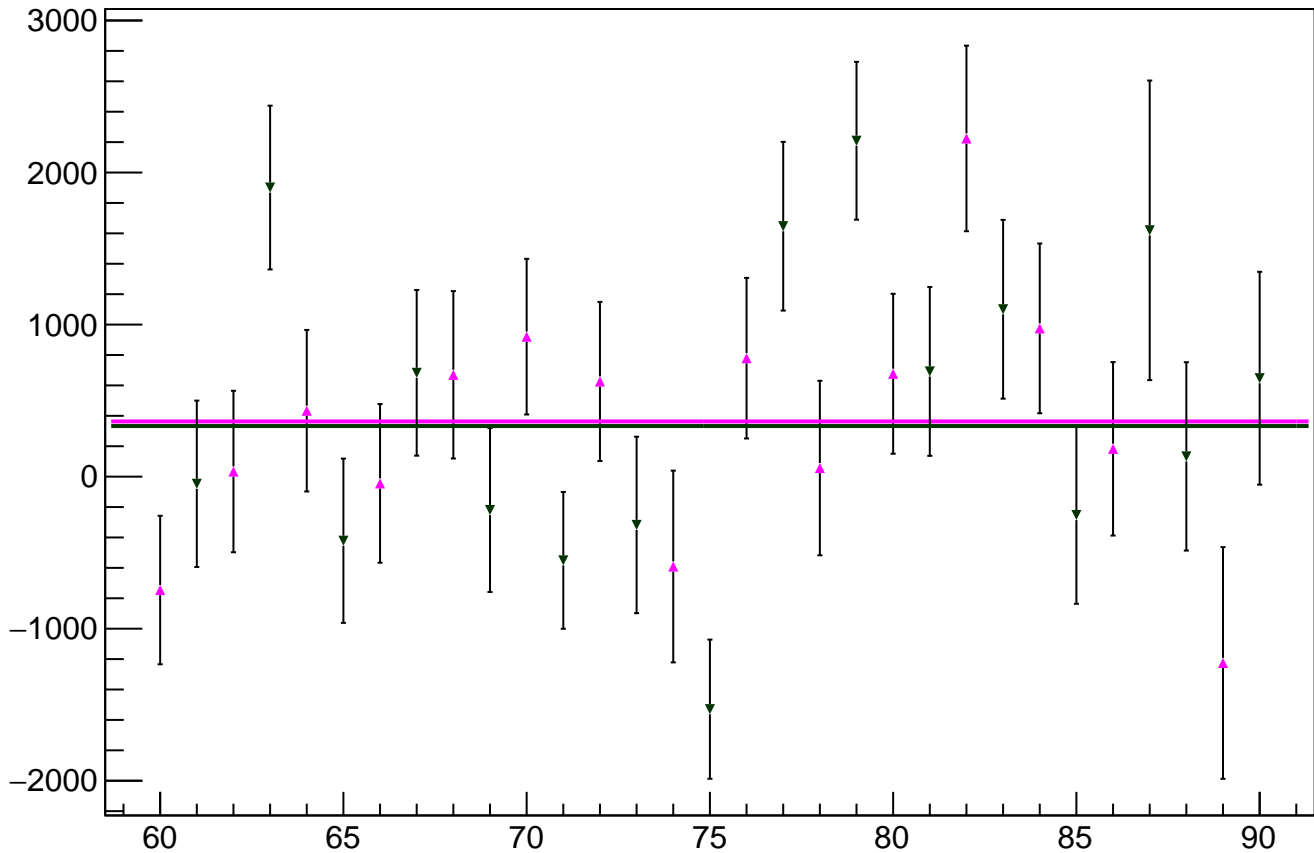
443.965+/-0.123  $\chi^2$ /NDF: 1768830.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 459.412+/-0.130  $\chi^2$ /NDF:2173214.2/14

459.412+/-0.130  $\chi^2$ /NDF: 2173214.2/14

# reg\_asym\_sam6\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 332.698+/-139.459  $\chi^2$ /NDF:57.9/15

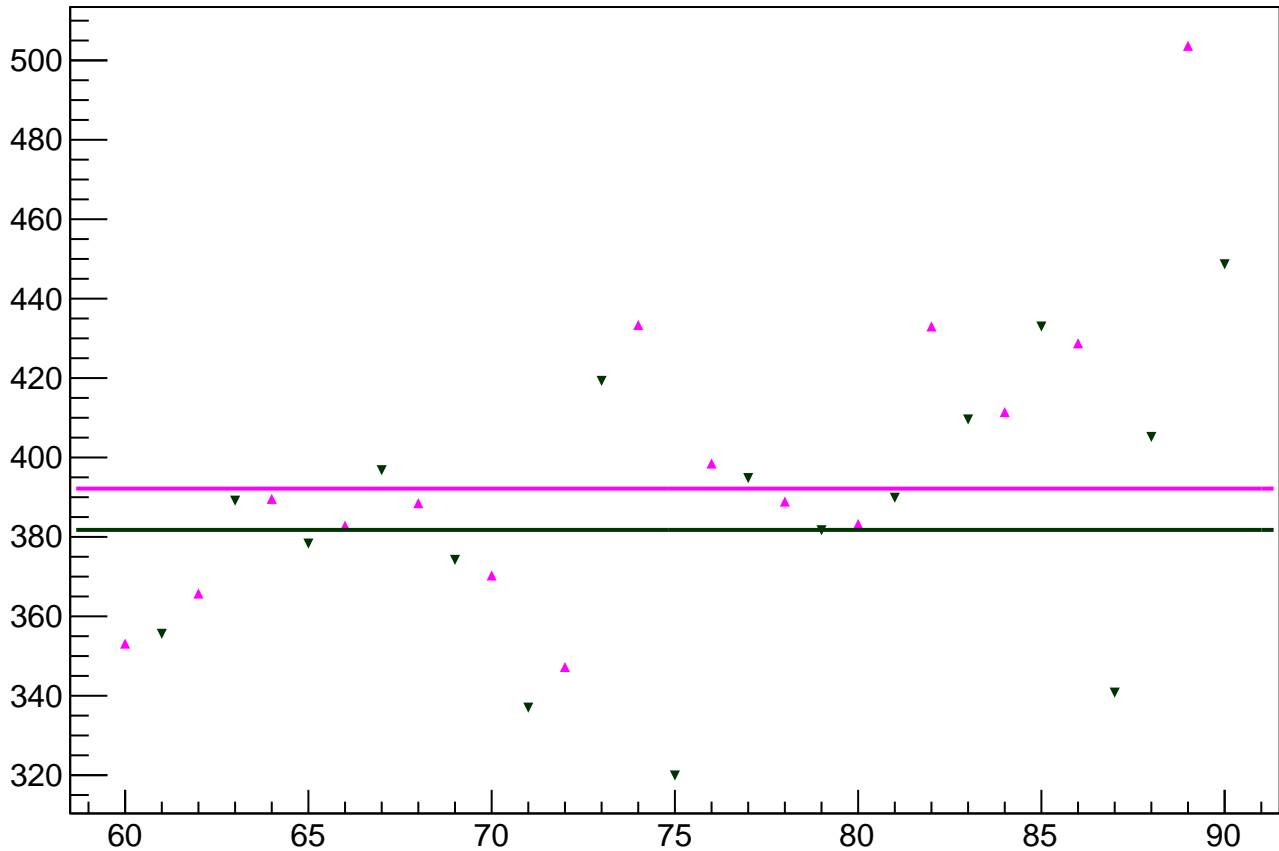
332.698+/-139.459  $\chi^2$ /NDF: 57.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

363.080+/-142.600  $\chi^2$ /NDF: 26.4/14

Left In: 363.080+/-142.600  $\chi^2$ /NDF:26.4/14

# reg\_asym\_sam6\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 381.765+/-0.099  $\chi^2/\text{NDF}$ : 117604.8/15

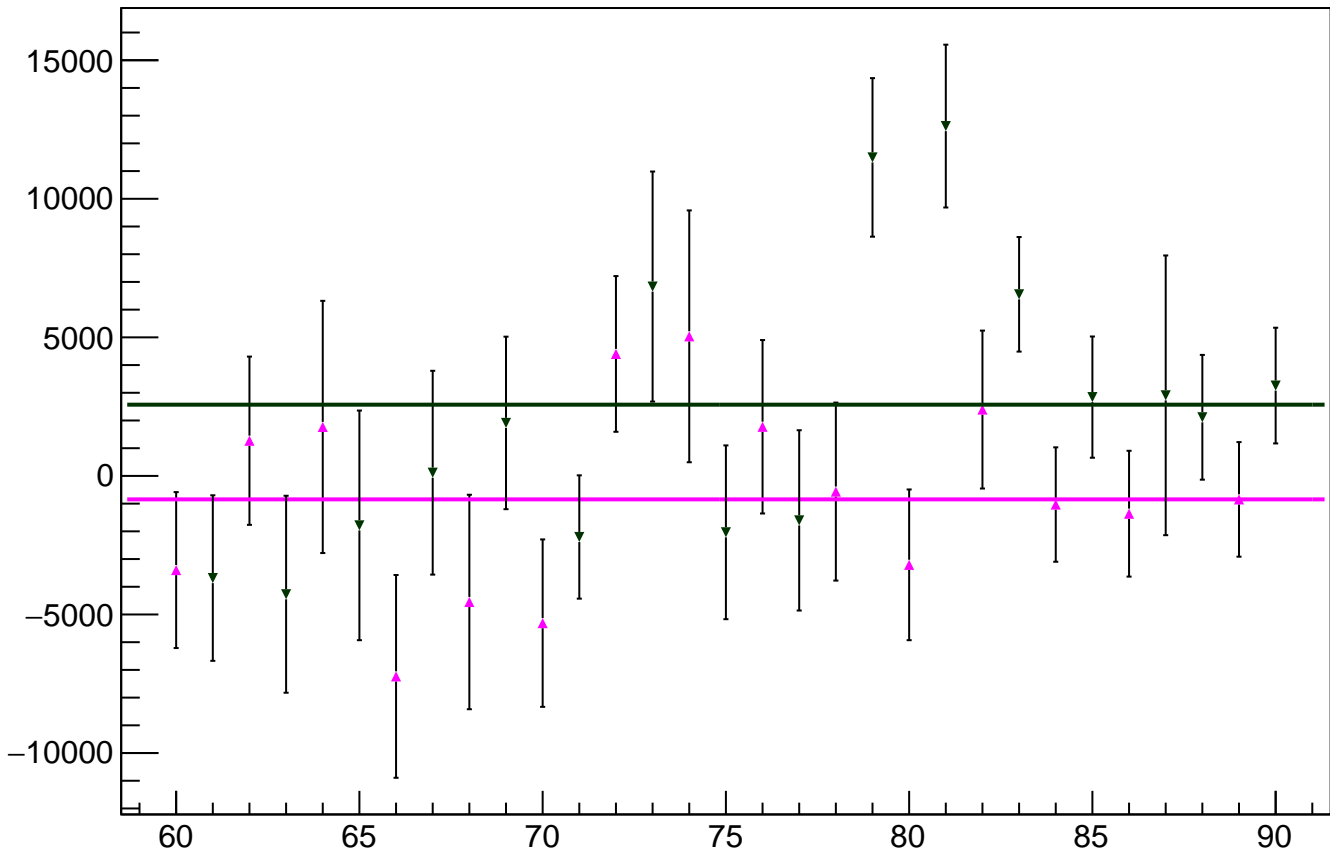
381.765+/-0.099  $\chi^2/\text{NDF}$ : 117604.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 392.161+/-0.101  $\chi^2/\text{NDF}$ : 108785.2/14

392.161+/-0.101  $\chi^2/\text{NDF}$ : 108785.2/14

# asym\_sam6\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2570.692+/-701.866  $\chi^2$ /NDF: 44.5/15

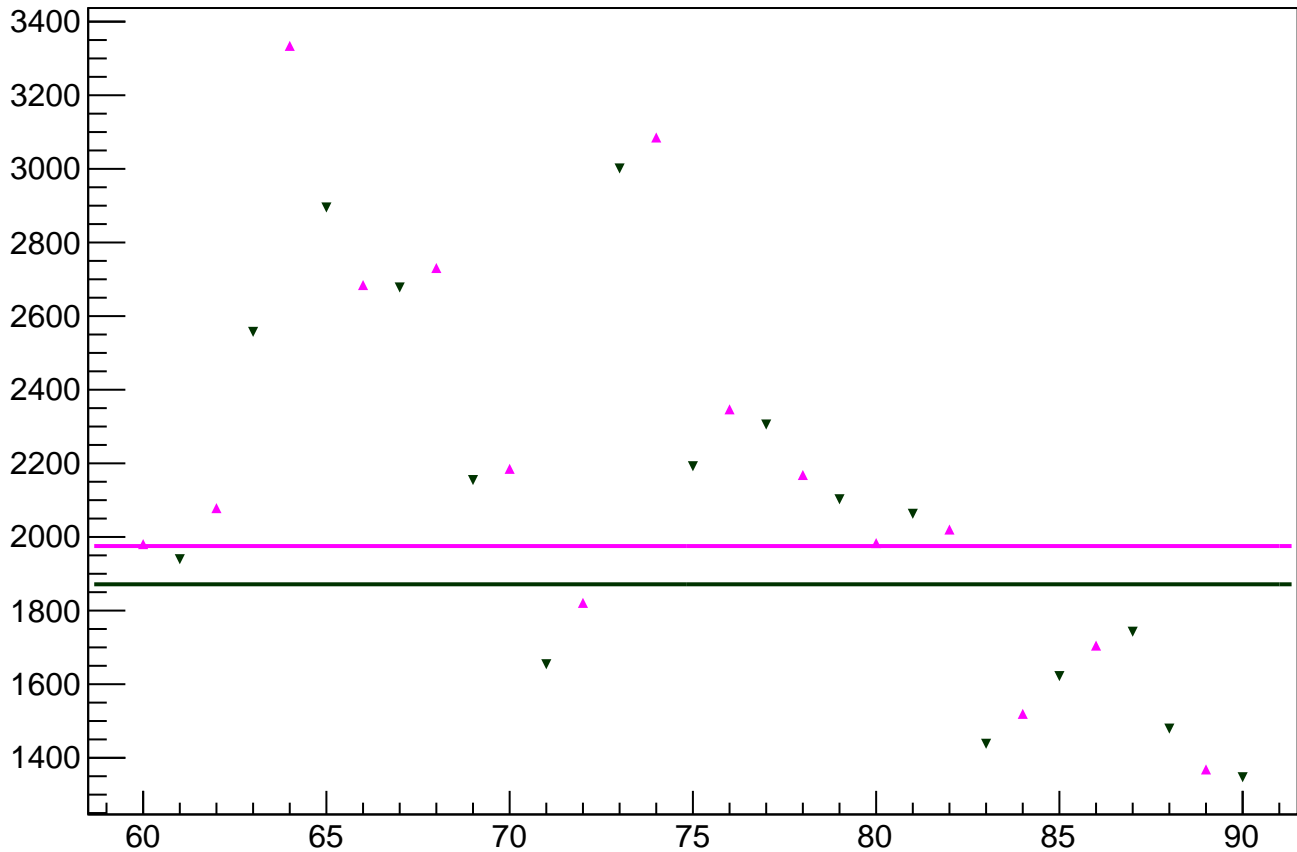
Left Out: 2570.692+/-701.866  $\chi^2$ /NDF:44.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-846.422+/-739.349  $\chi^2$ /NDF: 15.8/14

Left In: -846.422+/-739.349  $\chi^2$ /NDF:15.8/14

# asym\_sam6\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1871.411+/-0.496  $\chi^2$ /NDF: 857454.4/15

Left Out: 1871.411+/-0.496  $\chi^2$ /NDF: 857454.4/15

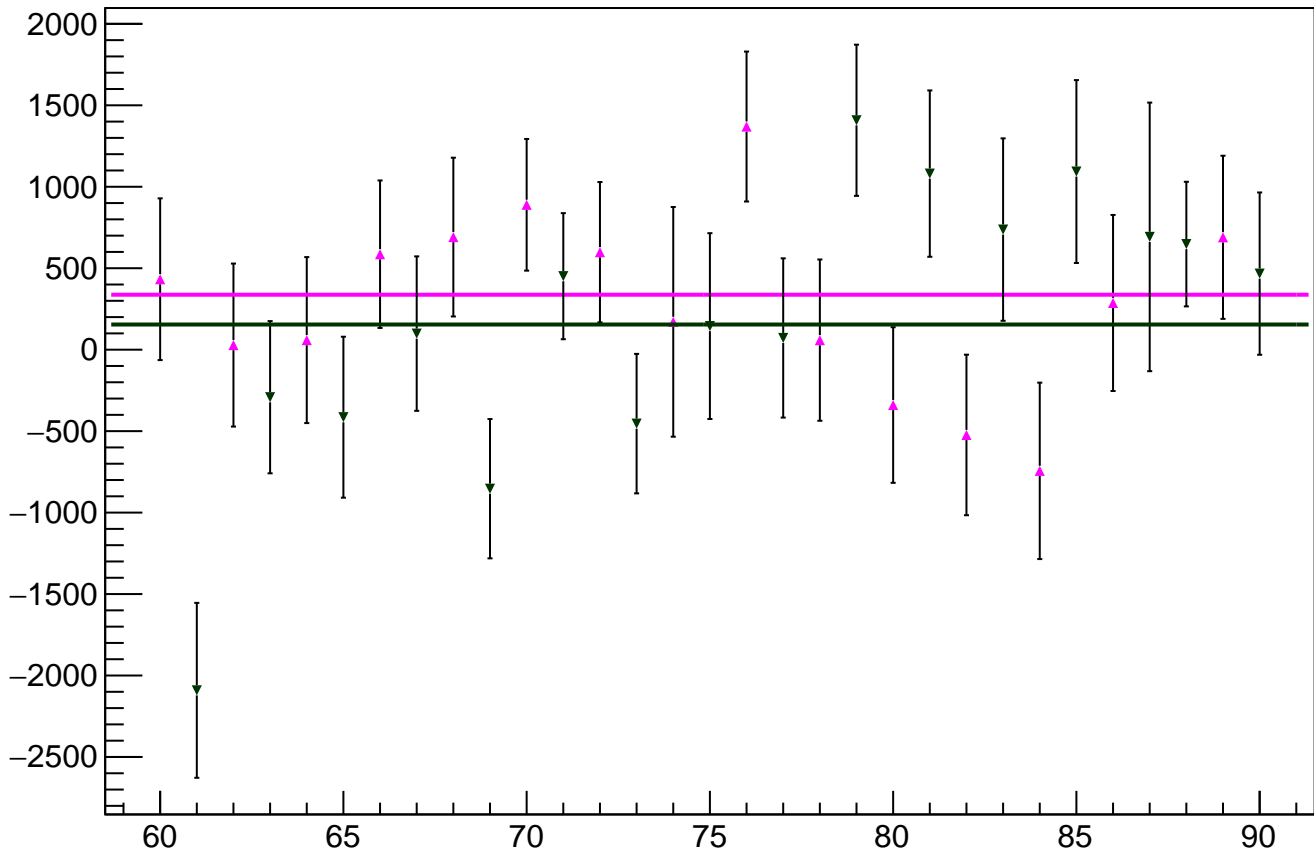
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1975.322+/-0.523  $\chi^2$ /NDF: 801117.9/14

Left In: 1975.322+/-0.523  $\chi^2$ /NDF: 801117.9/14



# reg\_asym\_sam7\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 154.469+/-120.693  $\chi^2$ /NDF:44.9/15

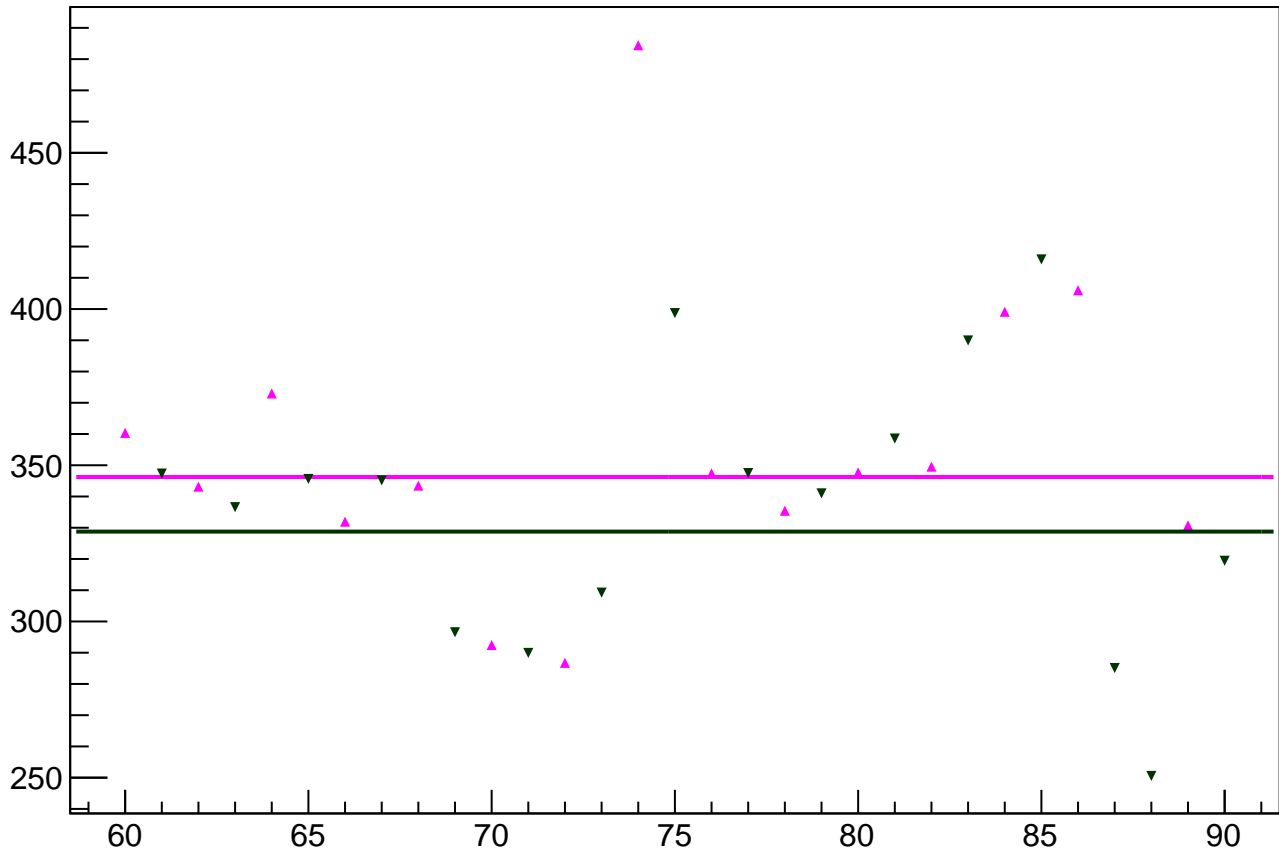
154.469+/-120.693  $\chi^2$ /NDF: 44.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 337.381+/-126.332  $\chi^2$ /NDF:18.7/14

337.381+/-126.332  $\chi^2$ /NDF: 18.7/14

# reg\_asym\_sam7\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 328.763+/-0.085  $\chi^2$ /NDF:246590.0/15

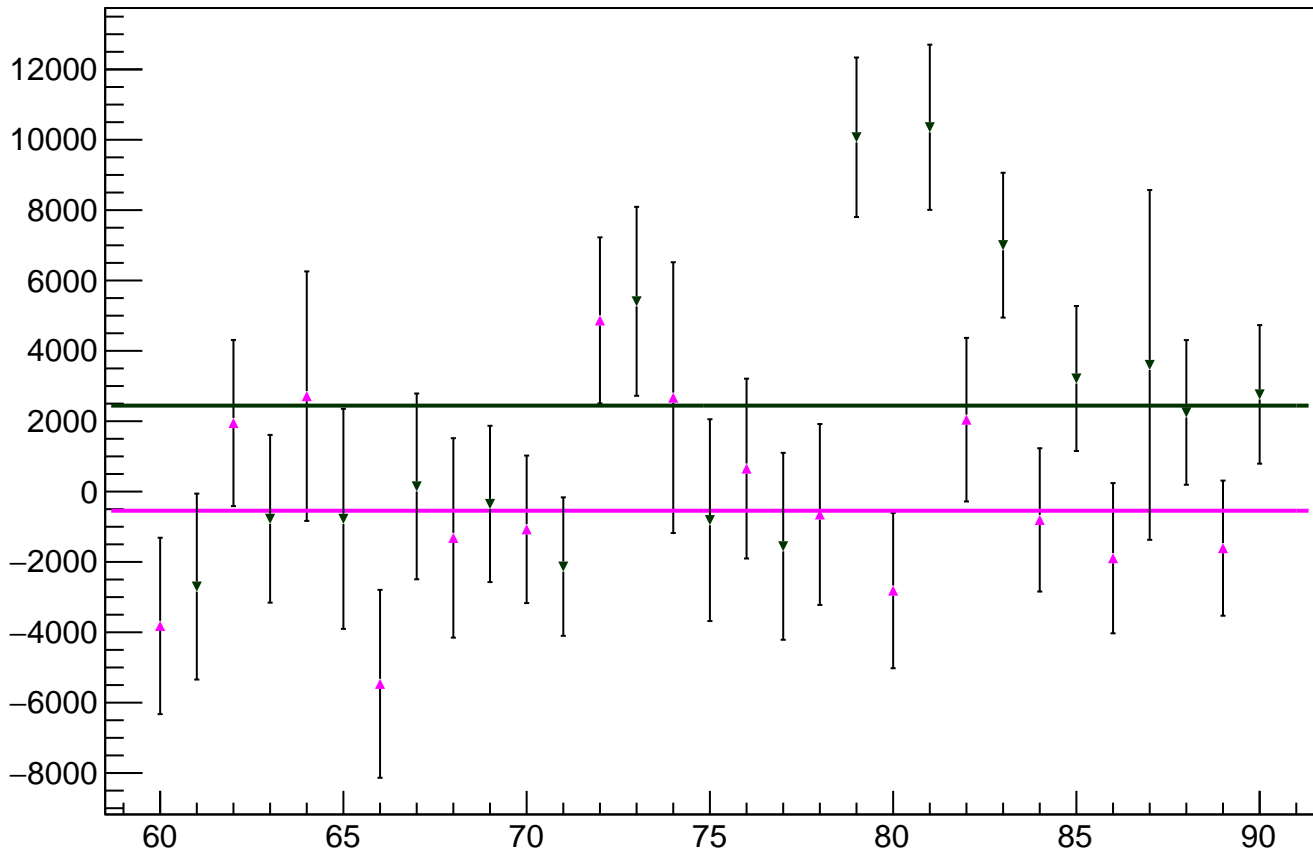
328.763+/-0.085  $\chi^2$ /NDF: 246590.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

346.241+/-0.089  $\chi^2$ /NDF: 206243.4/14

Left In: 346.241+/-0.089  $\chi^2$ /NDF:206243.4/14

# asym\_sam7\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2443.399+/-596.572  $\chi^2/\text{NDF}$ : 47.0/15

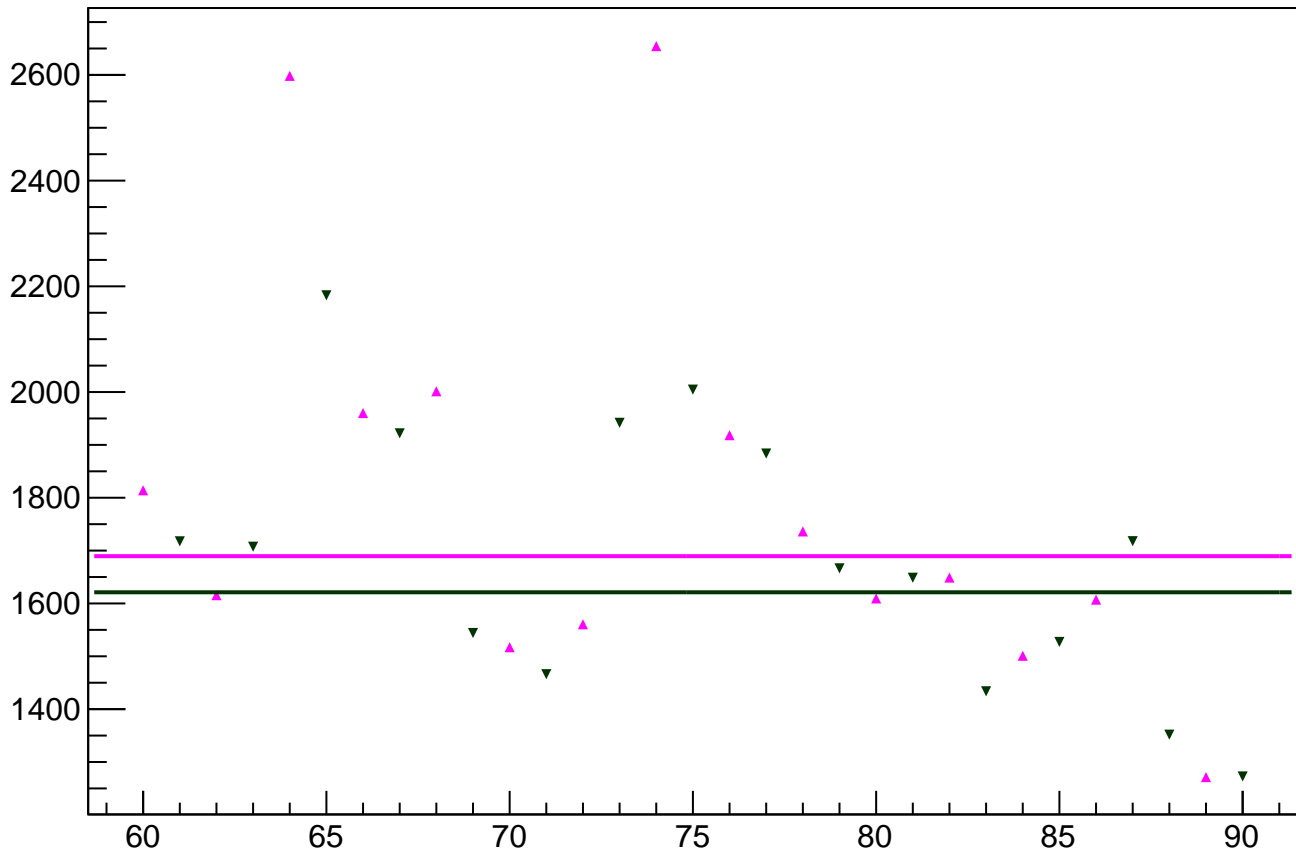
2443.399+/-596.572  $\chi^2/\text{NDF}$ : 47.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-544.613+/-622.170  $\chi^2/\text{NDF}$ : 16.4/14

Left In: -544.613+/-622.170  $\chi^2/\text{NDF}$ : 16.4/14

# asym\_sam7\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1621.122+/-0.422  $\chi^2$ /NDF:313835.3/15

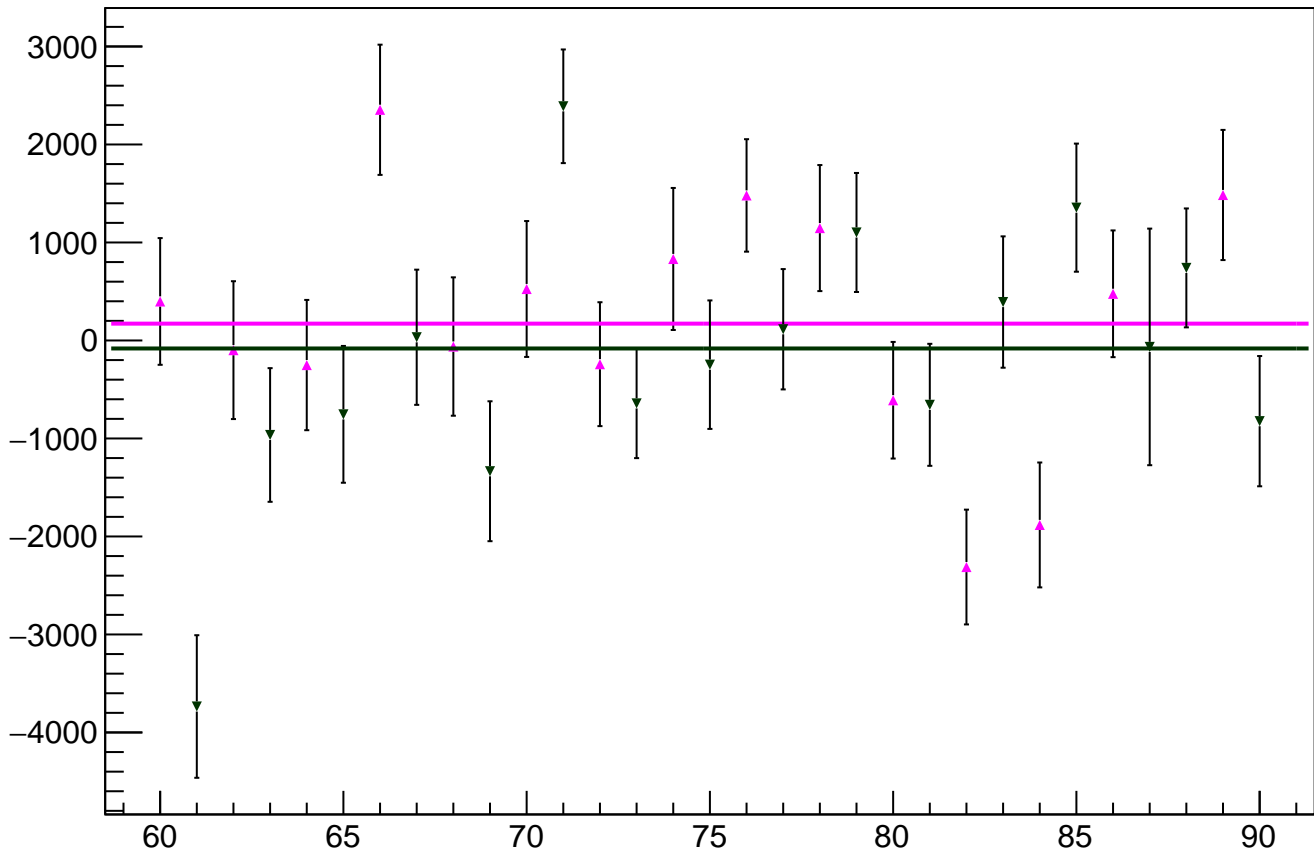
1621.122+/-0.422  $\chi^2$ /NDF: 313835.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1689.444+/-0.440  $\chi^2$ /NDF: 463055.7/14

Left In: 1689.444+/-0.440  $\chi^2$ /NDF:463055.7/14

# reg\_asym\_sam8\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -81.715+/-164.755  $\chi^2$ /NDF:63.3/15

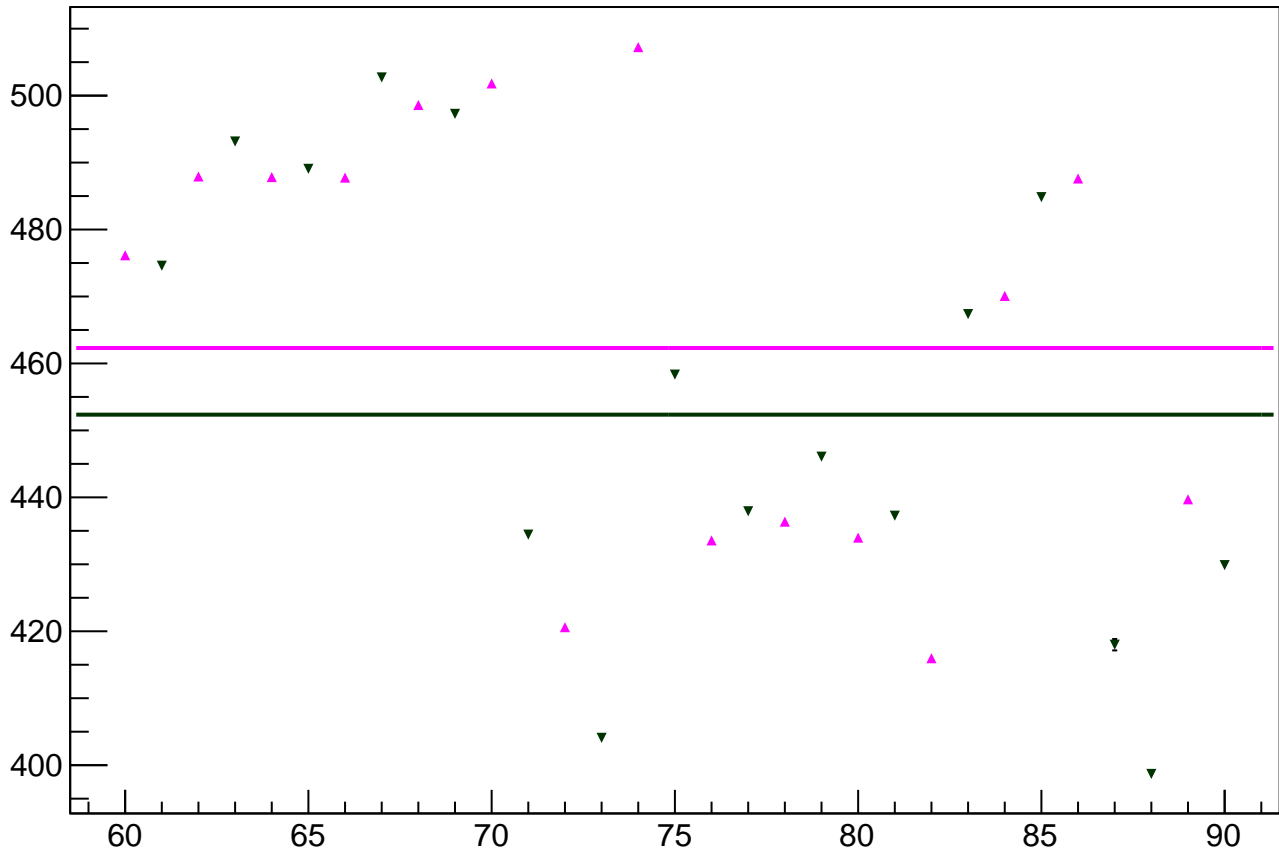
-81.715+/-164.755  $\chi^2$ /NDF: 63.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

171.718+/-167.245  $\chi^2$ /NDF: 54.8/14

Left In: 171.718+/-167.245  $\chi^2$ /NDF:54.8/14

# reg\_asym\_sam8\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 452.351+/-0.116  $\chi^2$ /NDF:78145.8/15

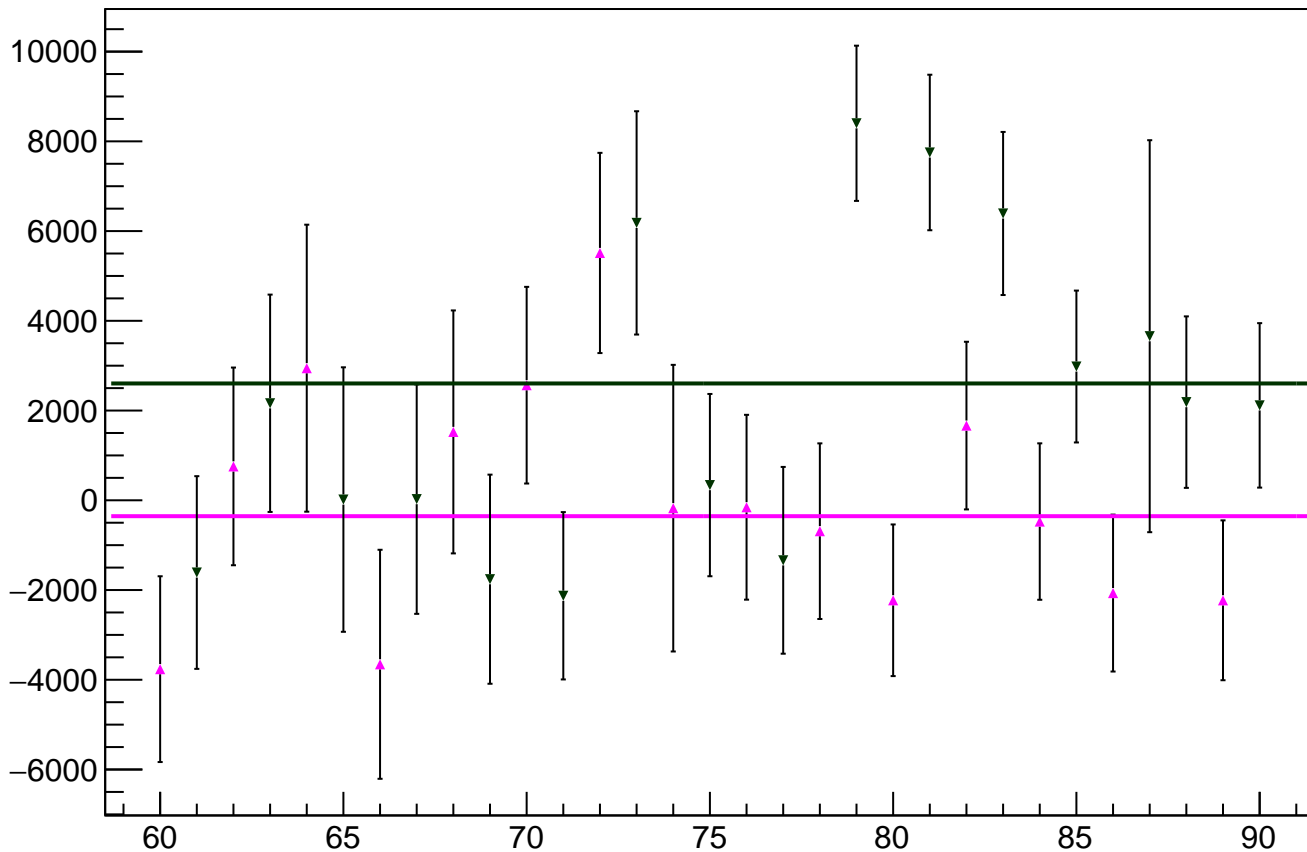
452.351+/-0.116  $\chi^2$ /NDF: 78145.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 462.309+/-0.118  $\chi^2$ /NDF:68625.8/14

462.309+/-0.118  $\chi^2$ /NDF: 68625.8/14

# asym\_sam8\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 2603.847+/-519.541  $\chi^2$ /NDF:47.1/15

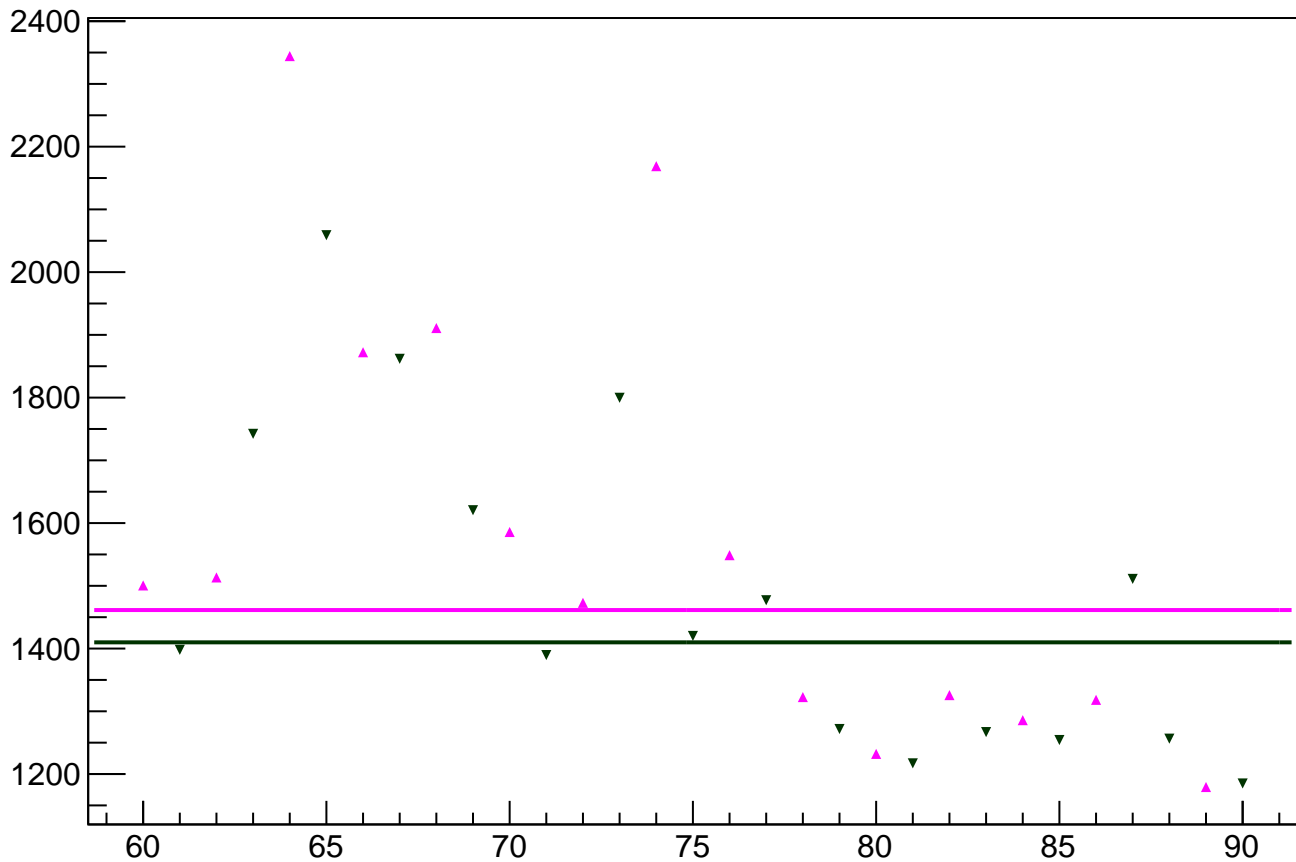
2603.847+/-519.541  $\chi^2$ /NDF: 47.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-354.199+/-539.254  $\chi^2$ /NDF: 19.4/14

Left In: -354.199+/-539.254  $\chi^2$ /NDF:19.4/14

# asym\_sam8\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1409.902+/-0.367  $\chi^2$ /NDF:375872.7/15

1409.902+/-0.367  $\chi^2$ /NDF: 375872.7/15

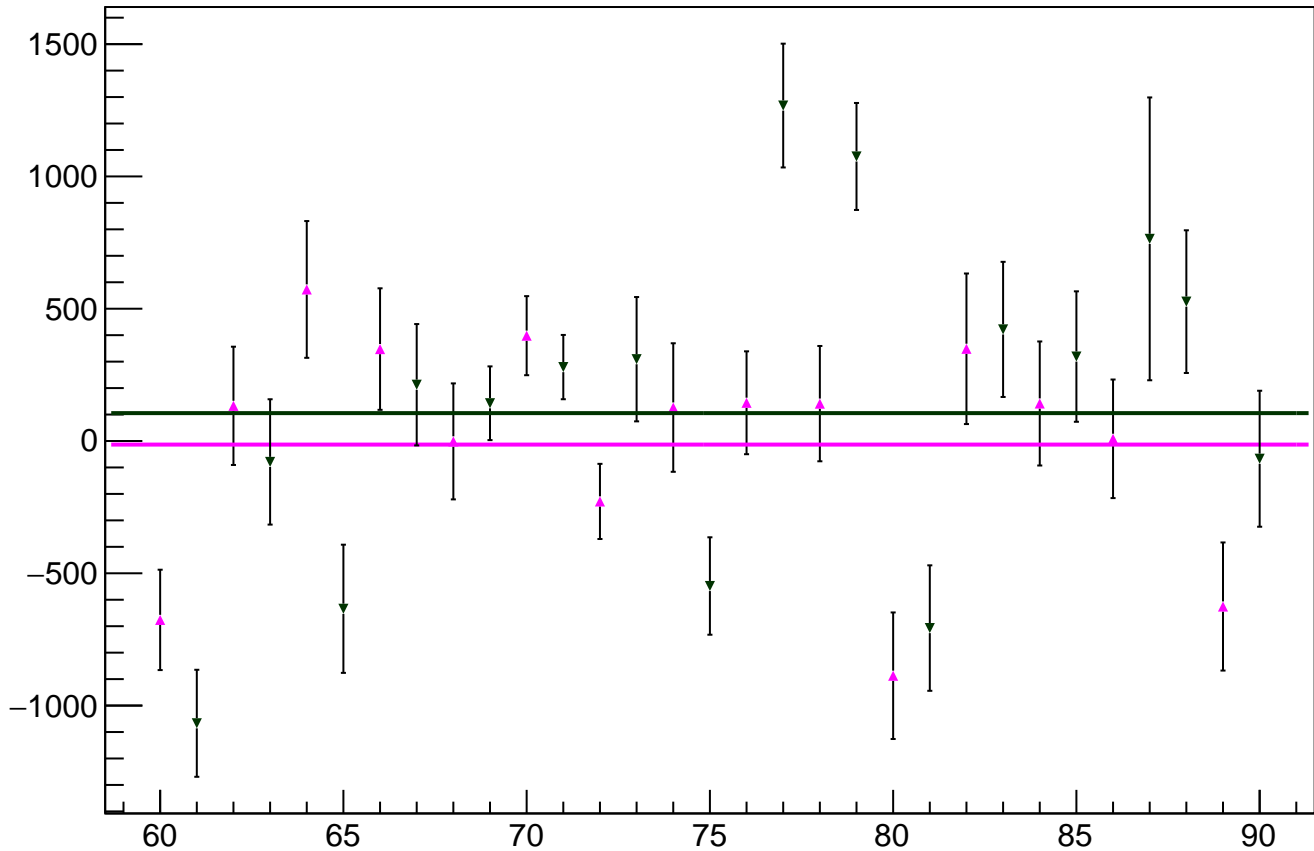
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1461.384+/-0.381  $\chi^2$ /NDF:510703.1/14

1461.384+/-0.381  $\chi^2$ /NDF: 510703.1/14



# asym\_sam\_15\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

105.384+/-51.995  $\chi^2/\text{NDF}$ : 125.4/15

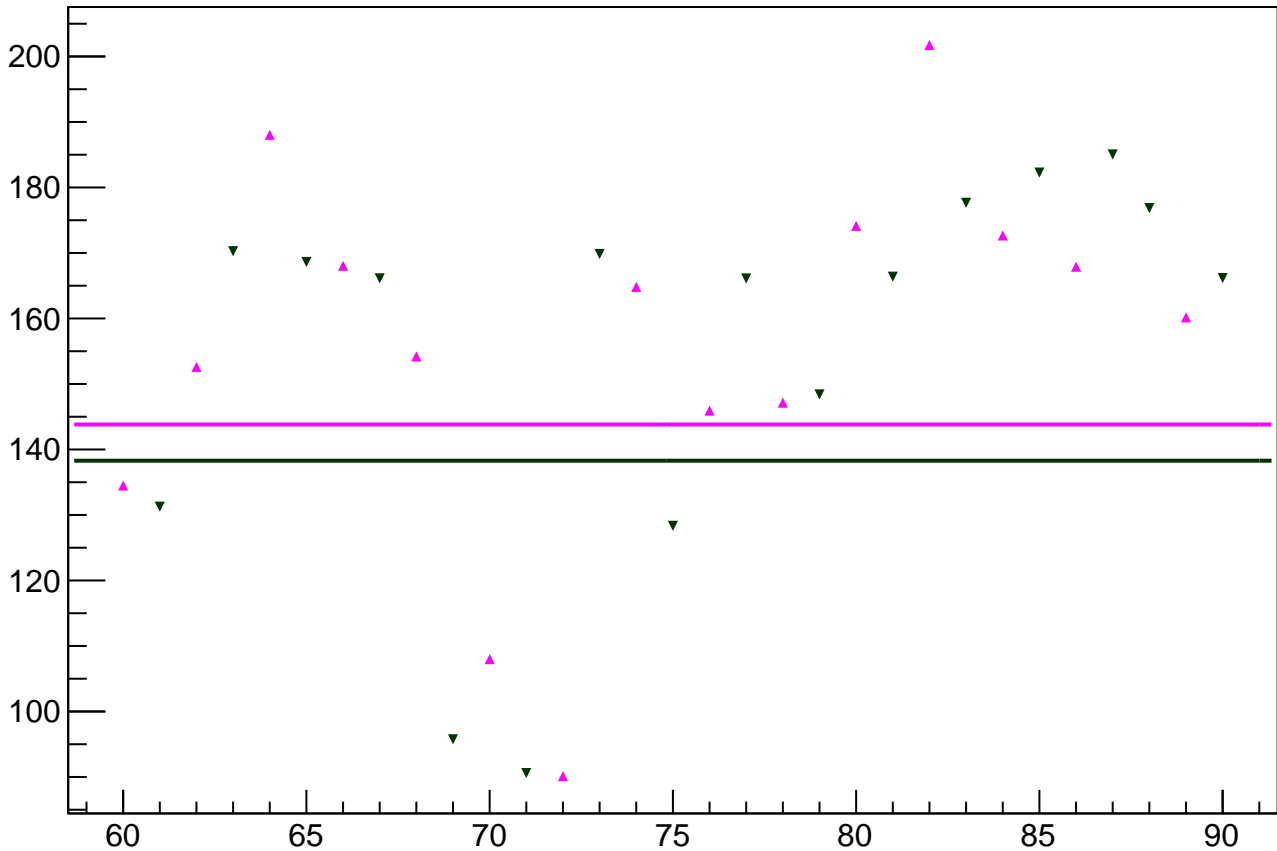
Left Out: 105.384+/-51.995  $\chi^2/\text{NDF}$ : 125.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-13.559+/-53.731  $\chi^2/\text{NDF}$ : 53.4/14

Left In: -13.559+/-53.731  $\chi^2/\text{NDF}$ : 53.4/14

# asym\_sam\_15\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 138.287+/-0.037  $\chi^2$ /NDF:888472.4/15

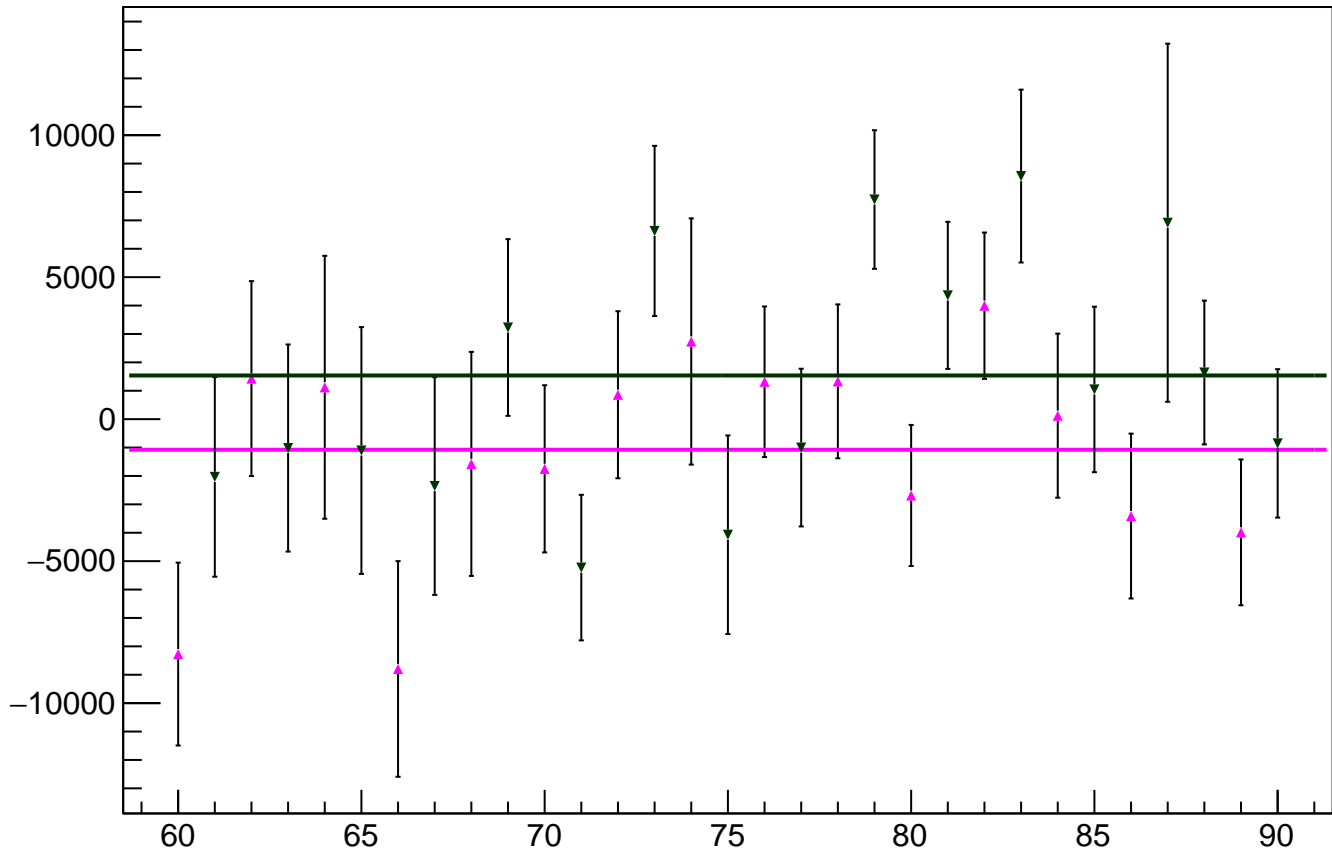
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 143.817+/-0.038  $\chi^2$ /NDF:687251.8/14

138.287+/-0.037  $\chi^2$ /NDF: 888472.4/15

143.817+/-0.038  $\chi^2$ /NDF: 687251.8/14

# asym\_sam\_26\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1538.167+/-761.191  $\chi^2/\text{NDF}$ : 31.0/15

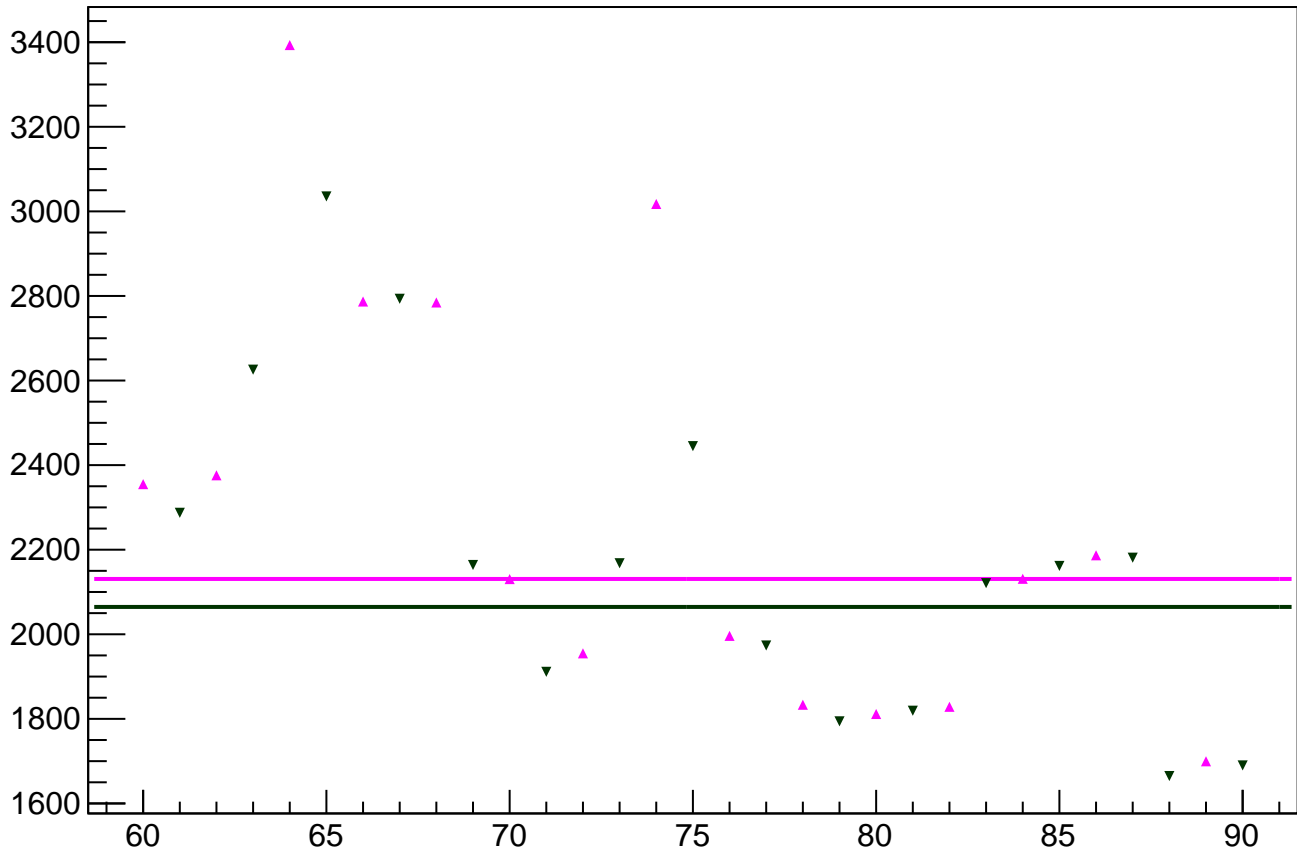
Left Out: 1538.167+/-761.191  $\chi^2/\text{NDF}$ :31.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1077.063+/-783.874  $\chi^2/\text{NDF}$ : 19.2/14

Left In: -1077.063+/-783.874  $\chi^2/\text{NDF}$ :19.2/14

# asym\_sam\_26\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 2064.666+/-0.538  $\chi^2$ /NDF:401958.4/15

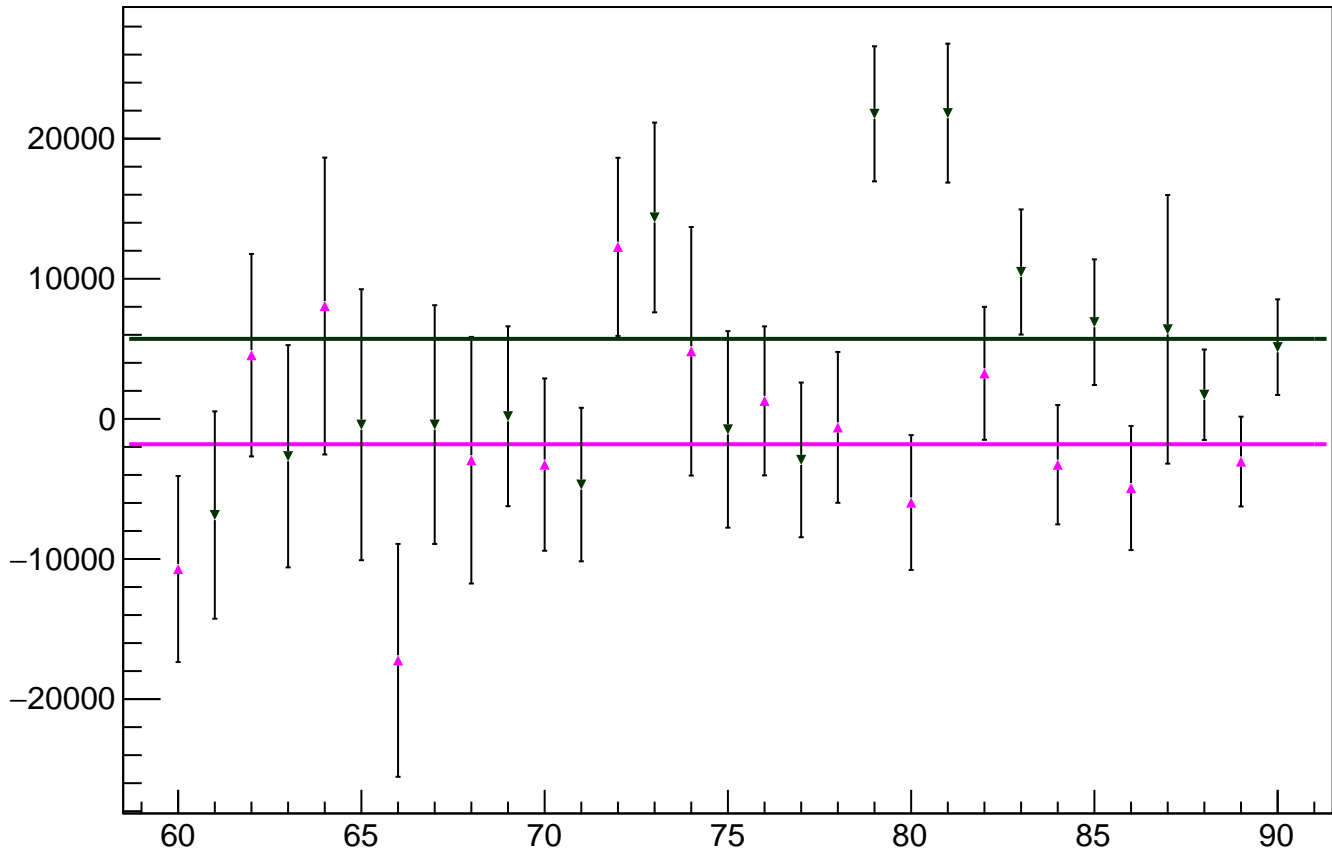
2064.666+/-0.538  $\chi^2$ /NDF: 401958.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2130.814+/-0.554  $\chi^2$ /NDF: 521110.1/14

Left In: 2130.814+/-0.554  $\chi^2$ /NDF:521110.1/14

# asym\_sam\_37\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5711.668+/-1327.504  $\chi^2$ /NDF:38.6/15

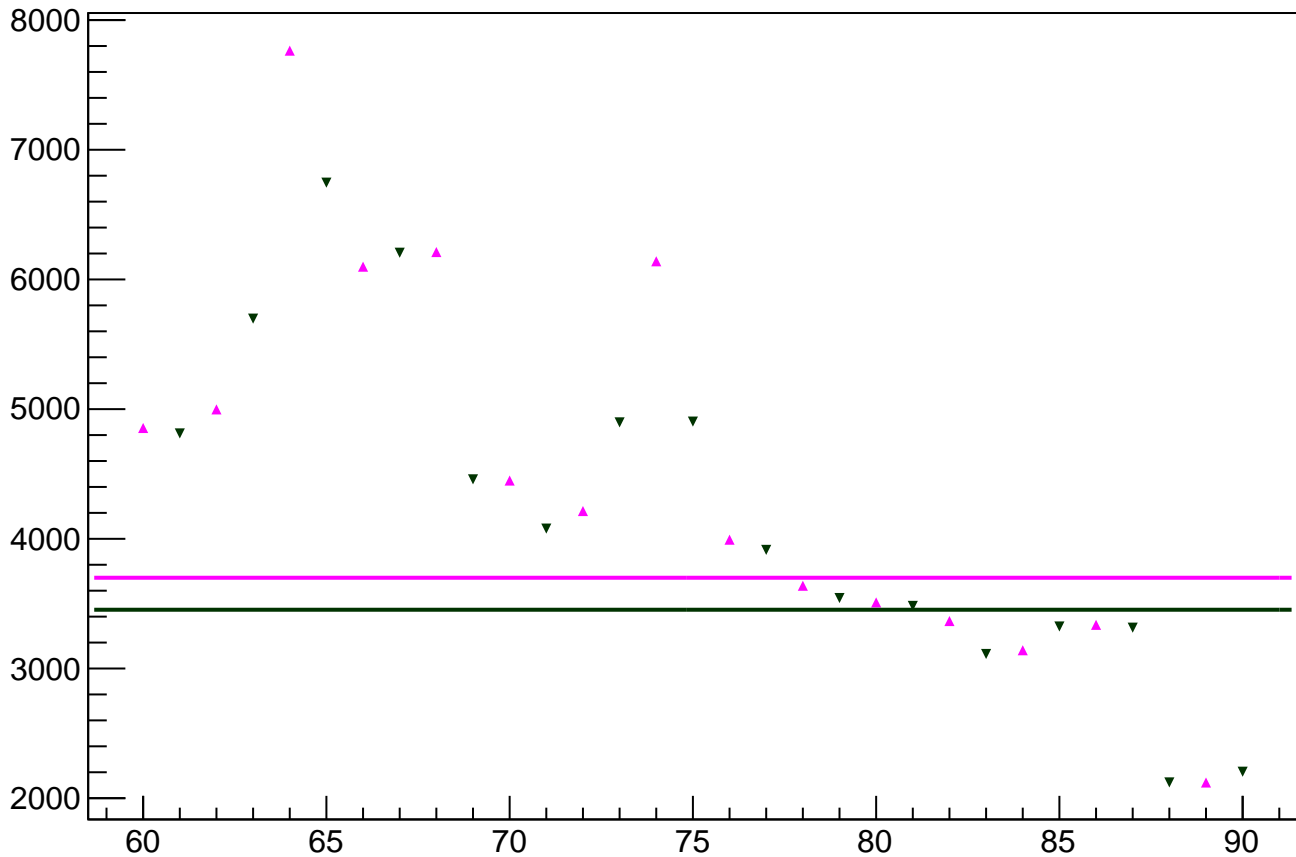
5711.668+/-1327.504  $\chi^2$ /NDF: 38.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1809.438+/-1409.875  $\chi^2$ /NDF: 15.5/14

Left In: -1809.438+/-1409.875  $\chi^2$ /NDF:15.5/14

# asym\_sam\_37\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3453.157+/-0.939  $\chi^2$ /NDF:1556953.4/15

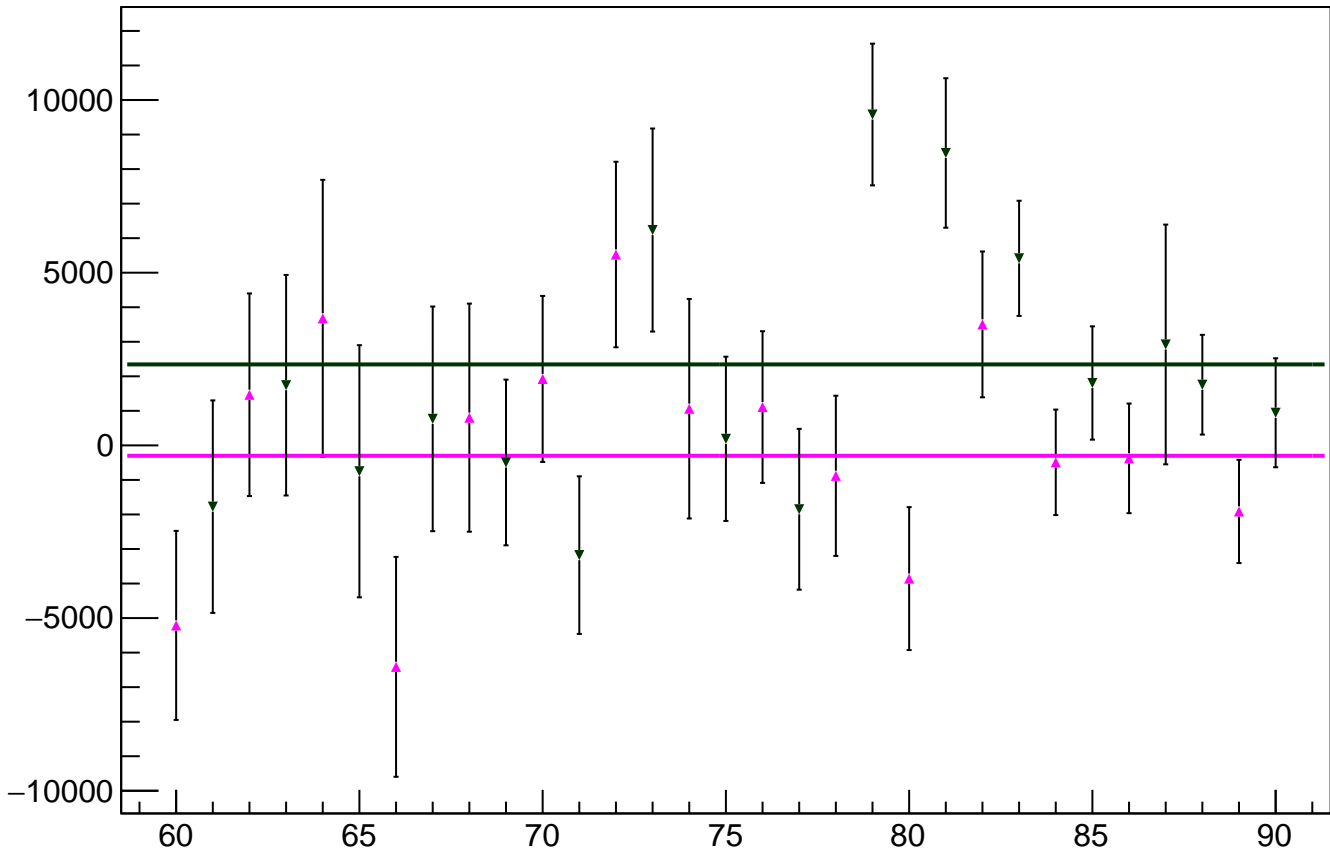
3453.157+/-0.939  $\chi^2$ /NDF: 1556953.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3699.836+/-0.997  $\chi^2$ /NDF: 1496272.9/14

Left In: 3699.836+/-0.997  $\chi^2$ /NDF:1496272.9/14

# asym\_sam\_48\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2344.789+/-545.342  $\chi^2/\text{NDF}$ : 40.8/15

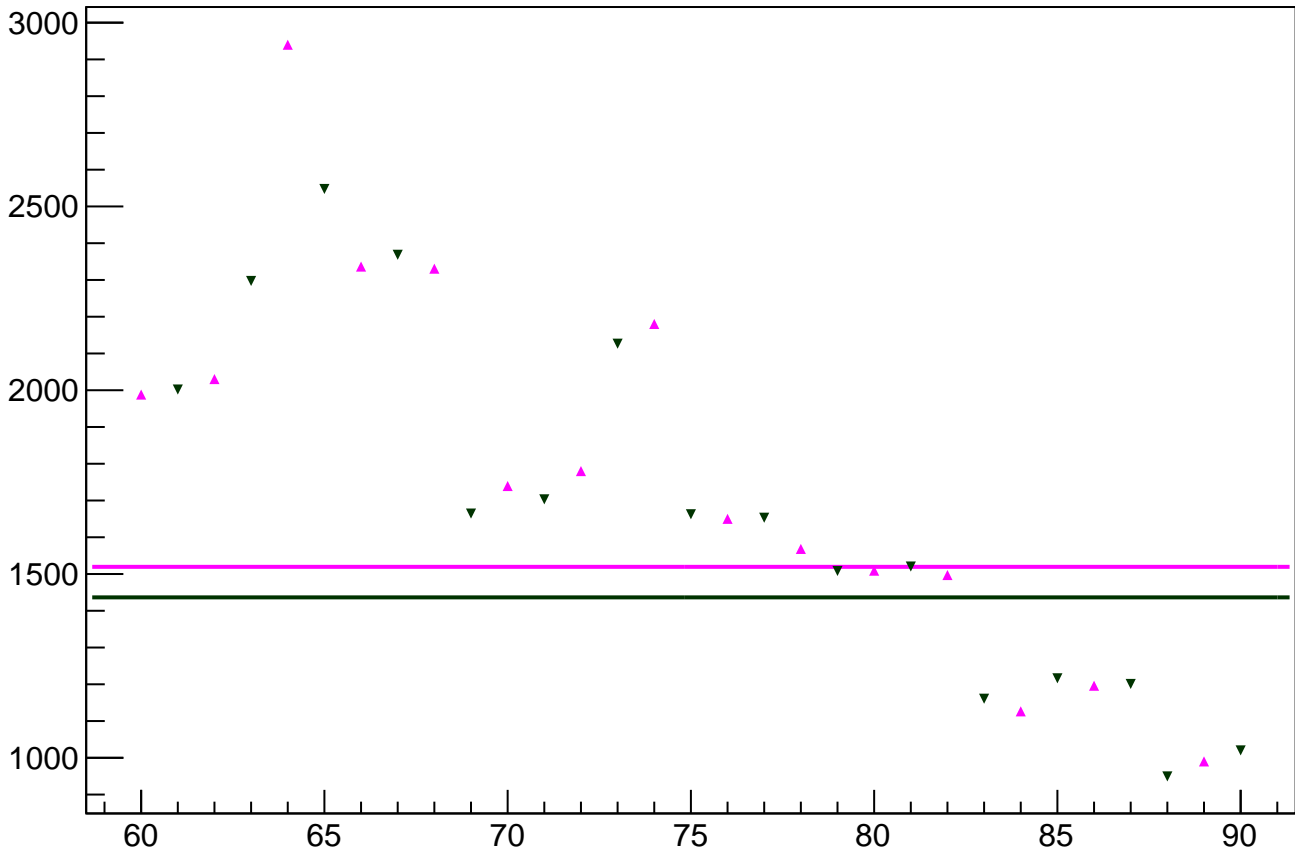
Left Out: 2344.789+/-545.342  $\chi^2/\text{NDF}$ : 40.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-301.148+/-573.819  $\chi^2/\text{NDF}$ : 22.0/14

Left In: -301.148+/-573.819  $\chi^2/\text{NDF}$ : 22.0/14

# asym\_sam\_48\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 1436.456+/-0.386  $\chi^2/\text{NDF}$ :1225608.8/15

1436.456+/-0.386  $\chi^2/\text{NDF}$ : 1225608.8/15

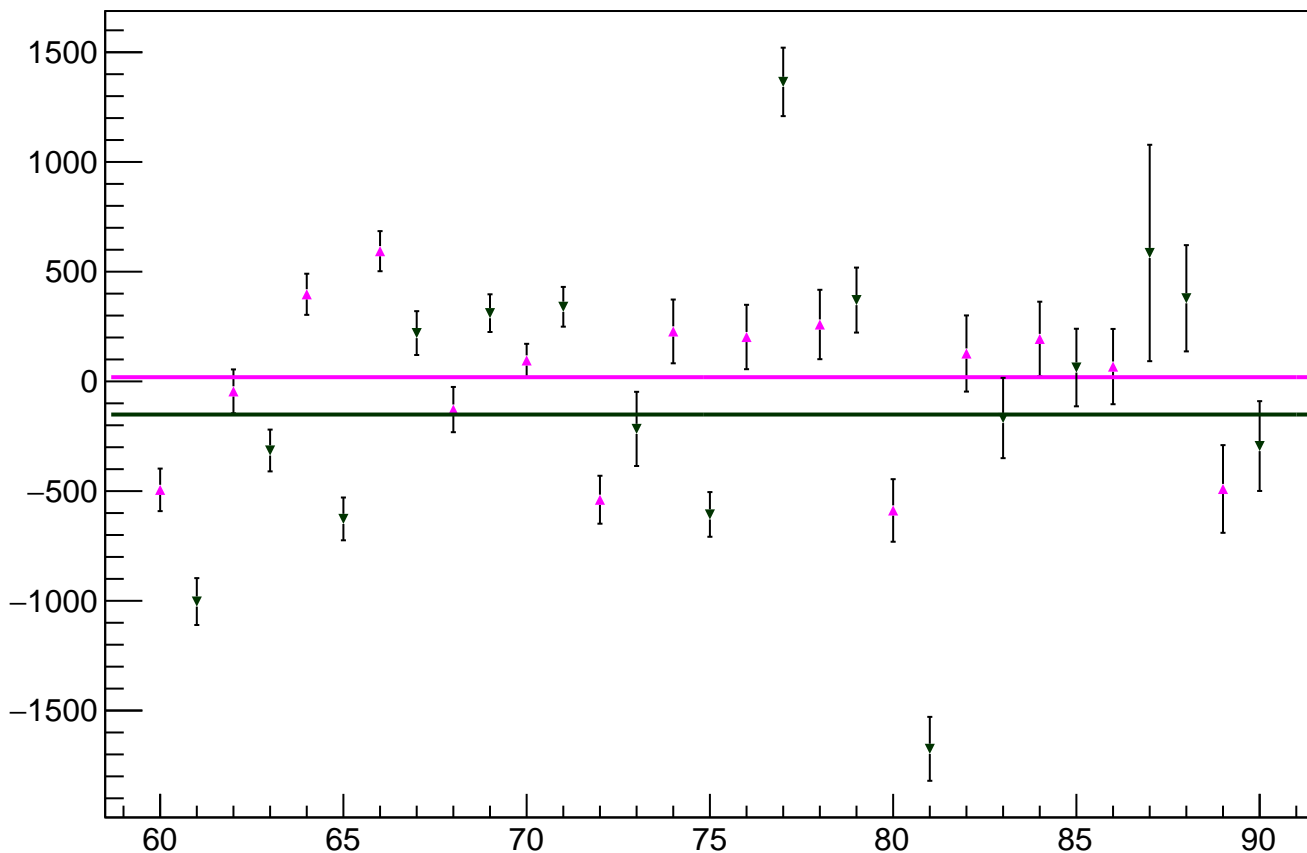
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1519.525+/-0.406  $\chi^2/\text{NDF}$ :1218849.3/14

1519.525+/-0.406  $\chi^2/\text{NDF}$ : 1218849.3/14



# reg\_asym\_sam\_15\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -151.013+/-31.118  $\chi^2$ /NDF:407.9/15

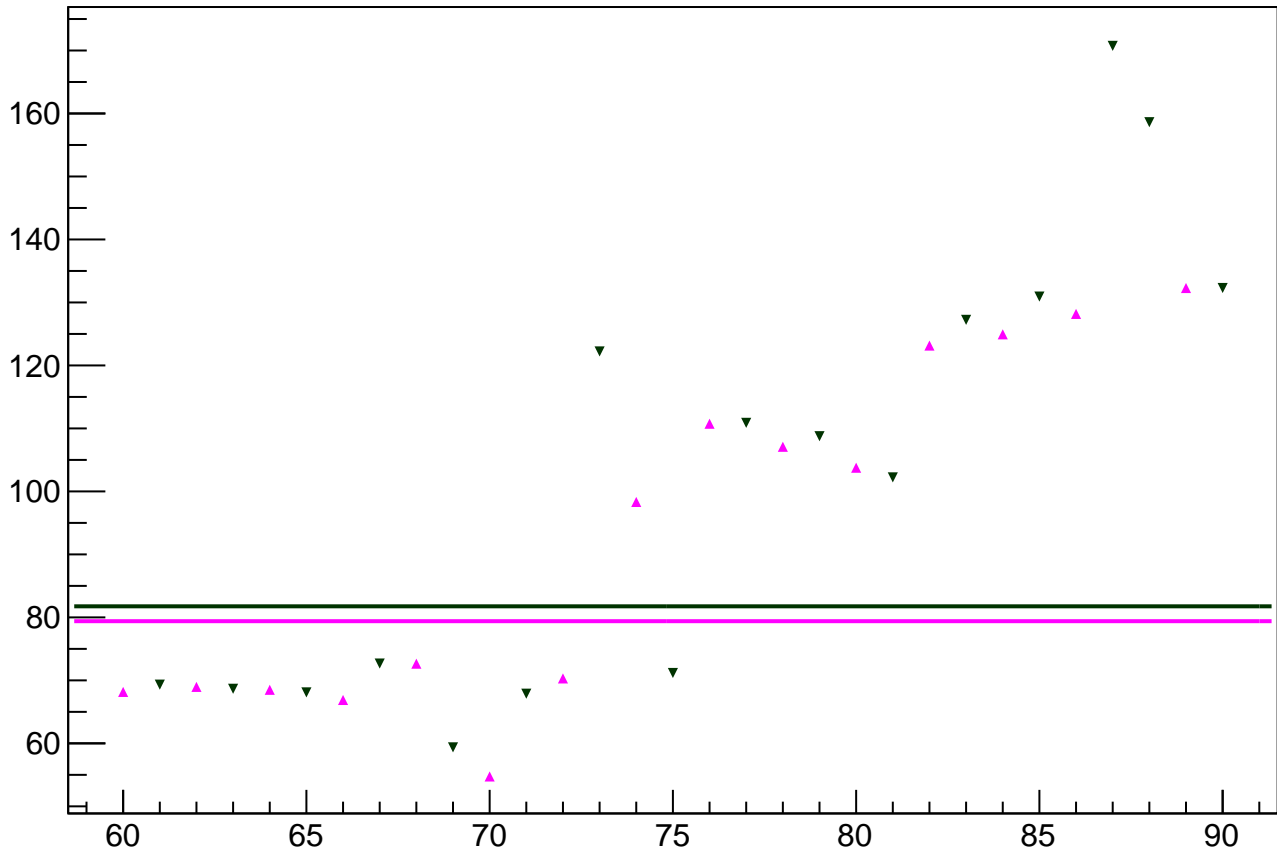
-151.013+/-31.118  $\chi^2$ /NDF: 407.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

19.171+/-30.117  $\chi^2$ /NDF: 145.5/14

Left In: 19.171+/-30.117  $\chi^2$ /NDF:145.5/14

# reg\_asym\_sam\_15\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 81.757+/-0.022  $\chi^2$ /NDF:1282462.7/15

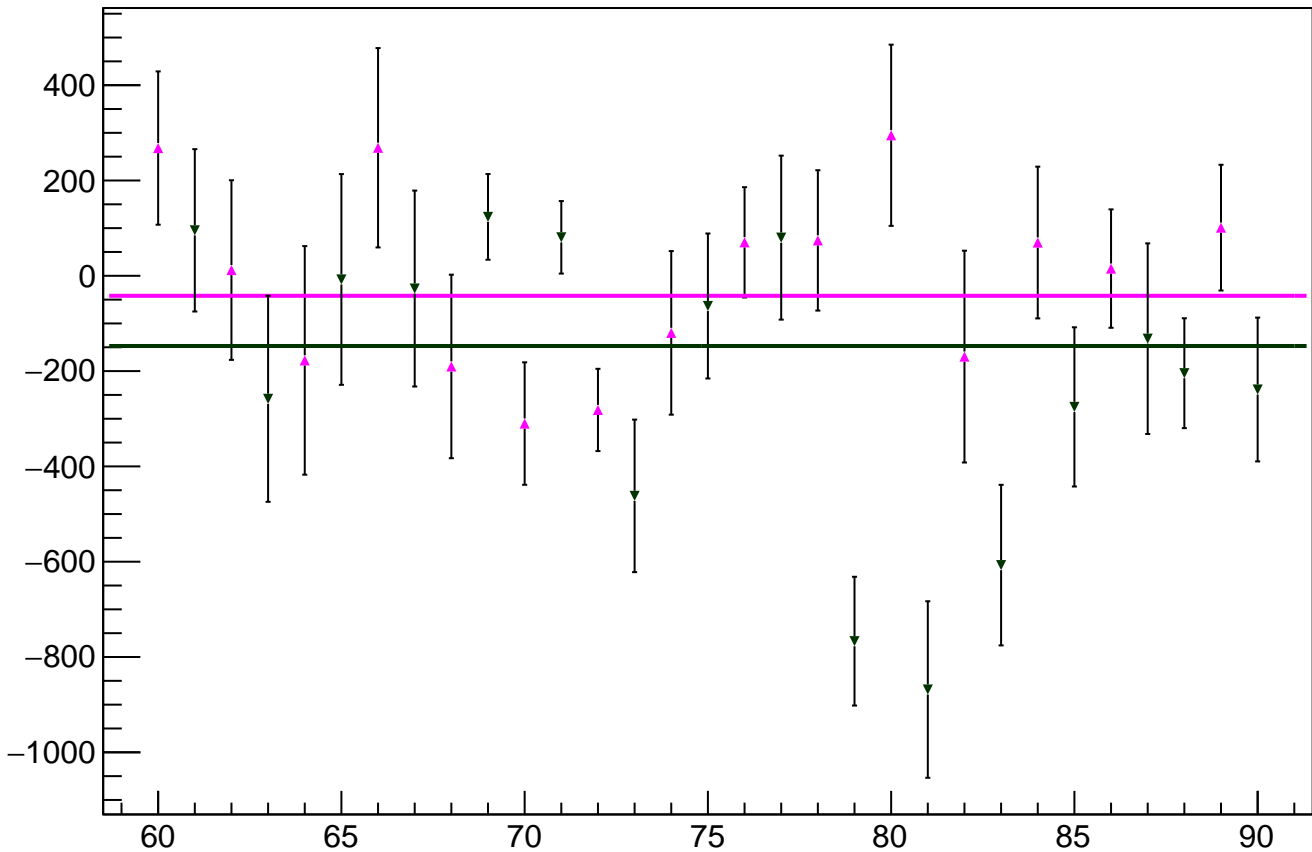
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 79.396+/-0.021  $\chi^2$ /NDF:1166070.0/14

81.757+/-0.022  $\chi^2$ /NDF: 1282462.7/15

79.396+/-0.021  $\chi^2$ /NDF: 1166070.0/14

# asym\_sam\_15\_avg\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -147.311+/-35.102  $\chi^2$ /NDF:71.8/15

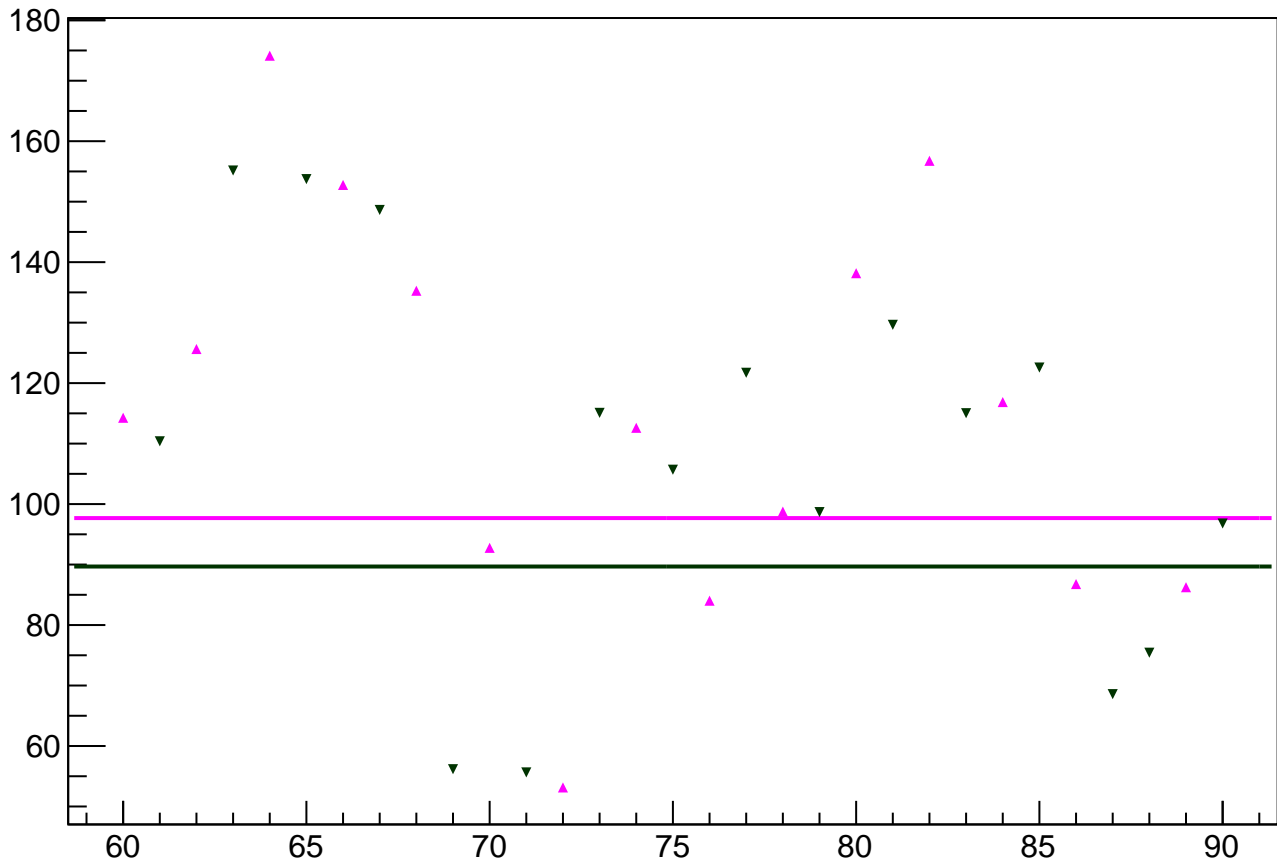
-147.311+/-35.102  $\chi^2$ /NDF: 71.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-41.958+/-37.985  $\chi^2$ /NDF: 26.1/14

Left In: -41.958+/-37.985  $\chi^2$ /NDF:26.1/14

# asym\_sam\_15\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 89.676+/-0.025  $\chi^2$ /NDF:1647589.3/15

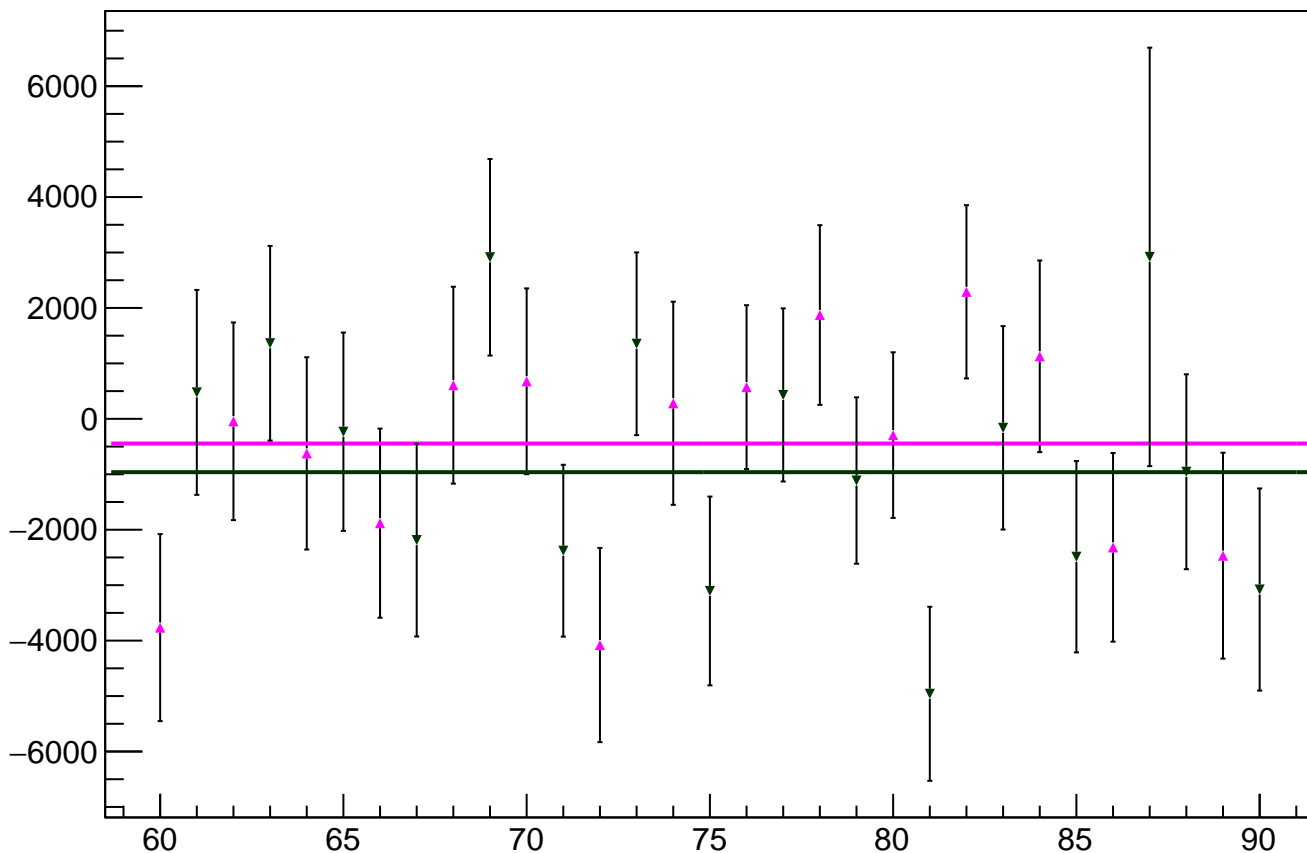
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 97.684+/-0.027  $\chi^2$ /NDF:1353415.0/14

89.676+/-0.025  $\chi^2$ /NDF: 1647589.3/15

97.684+/-0.027  $\chi^2$ /NDF: 1353415.0/14

# reg\_asym\_sam\_26\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -961.901+/-434.496  $\chi^2$ /NDF:22.9/15

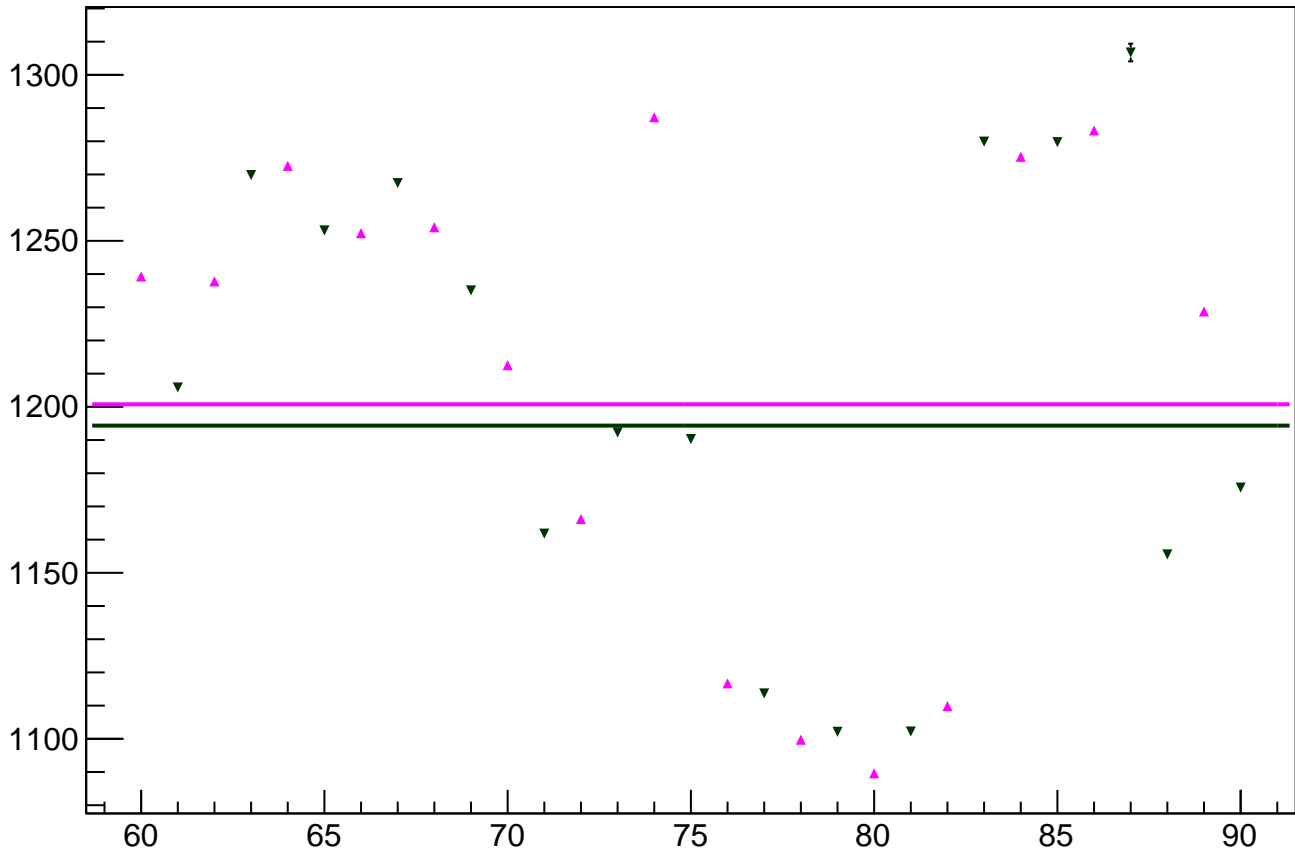
-961.901+/-434.496  $\chi^2$ /NDF: 22.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-445.078+/-434.090  $\chi^2$ /NDF: 18.7/14

Left In: -445.078+/-434.090  $\chi^2$ /NDF:18.7/14

# reg\_asym\_sam\_26\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1194.345+/-0.307  $\chi^2$ /NDF:43415.5/15

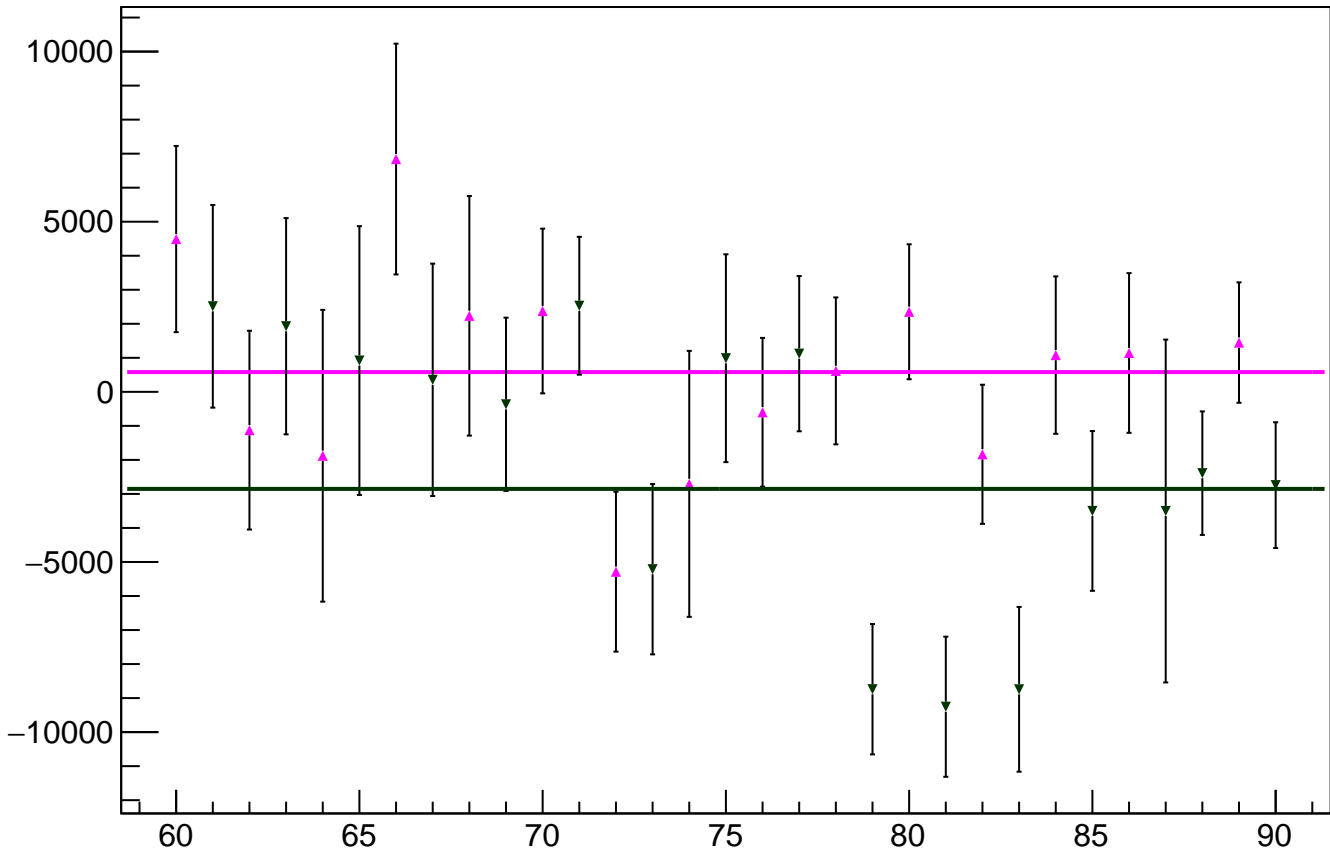
1194.345+/-0.307  $\chi^2$ /NDF: 43415.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1200.764+/-0.307  $\chi^2$ /NDF: 55270.7/14

Left In: 1200.764+/-0.307  $\chi^2$ /NDF:55270.7/14

# asym\_sam\_26\_avg\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -2852.082+/-606.910  $\chi^2/\text{NDF}$ :46.0/15

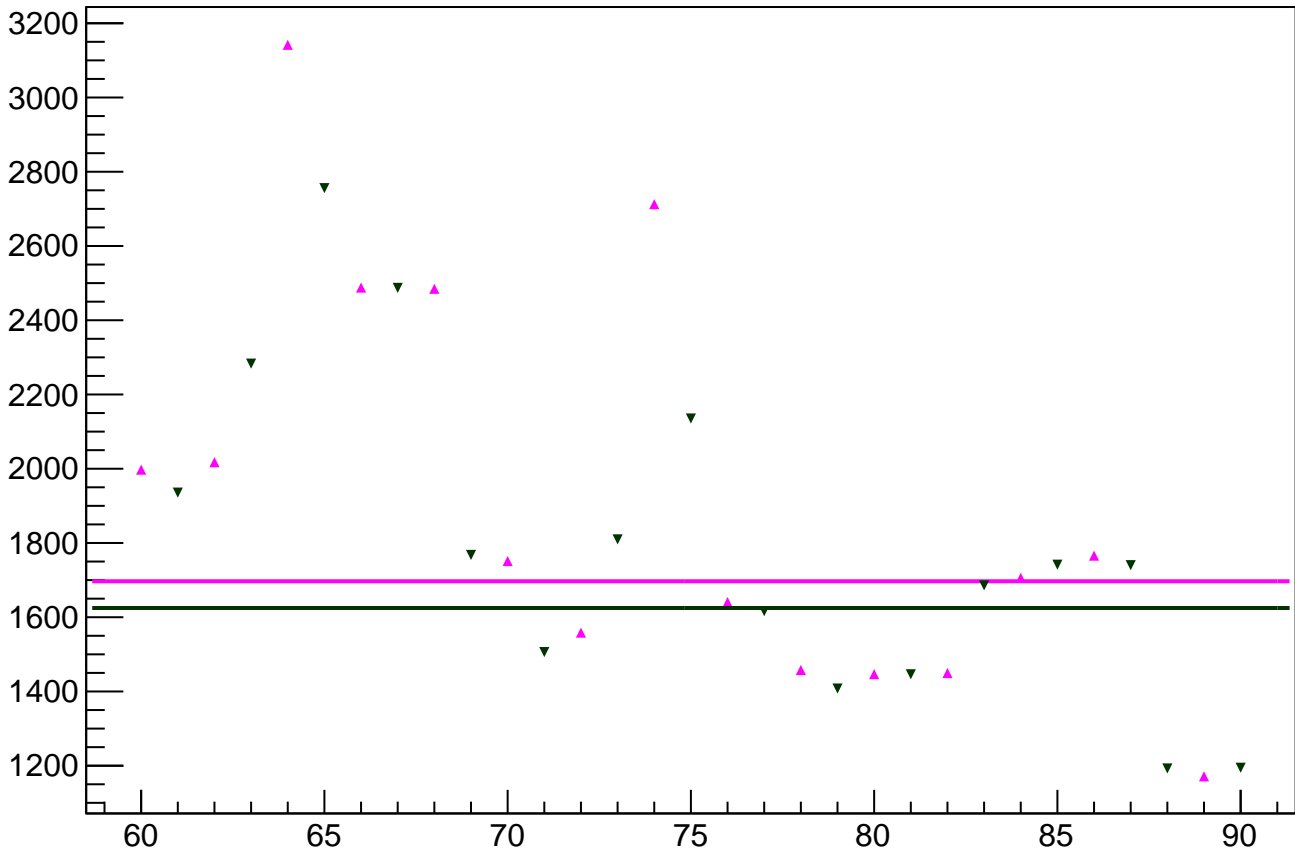
-2852.082+/-606.910  $\chi^2/\text{NDF}$ : 46.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

581.110+/-633.034  $\chi^2/\text{NDF}$ : 16.7/14

Left In: 581.110+/-633.034  $\chi^2/\text{NDF}$ :16.7/14

# asym\_sam\_26\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1624.874+/-0.429  $\chi^2/\text{NDF}$ : 748899.0/15

Left Out: 1624.874+/-0.429  $\chi^2/\text{NDF}$ : 748899.0/15

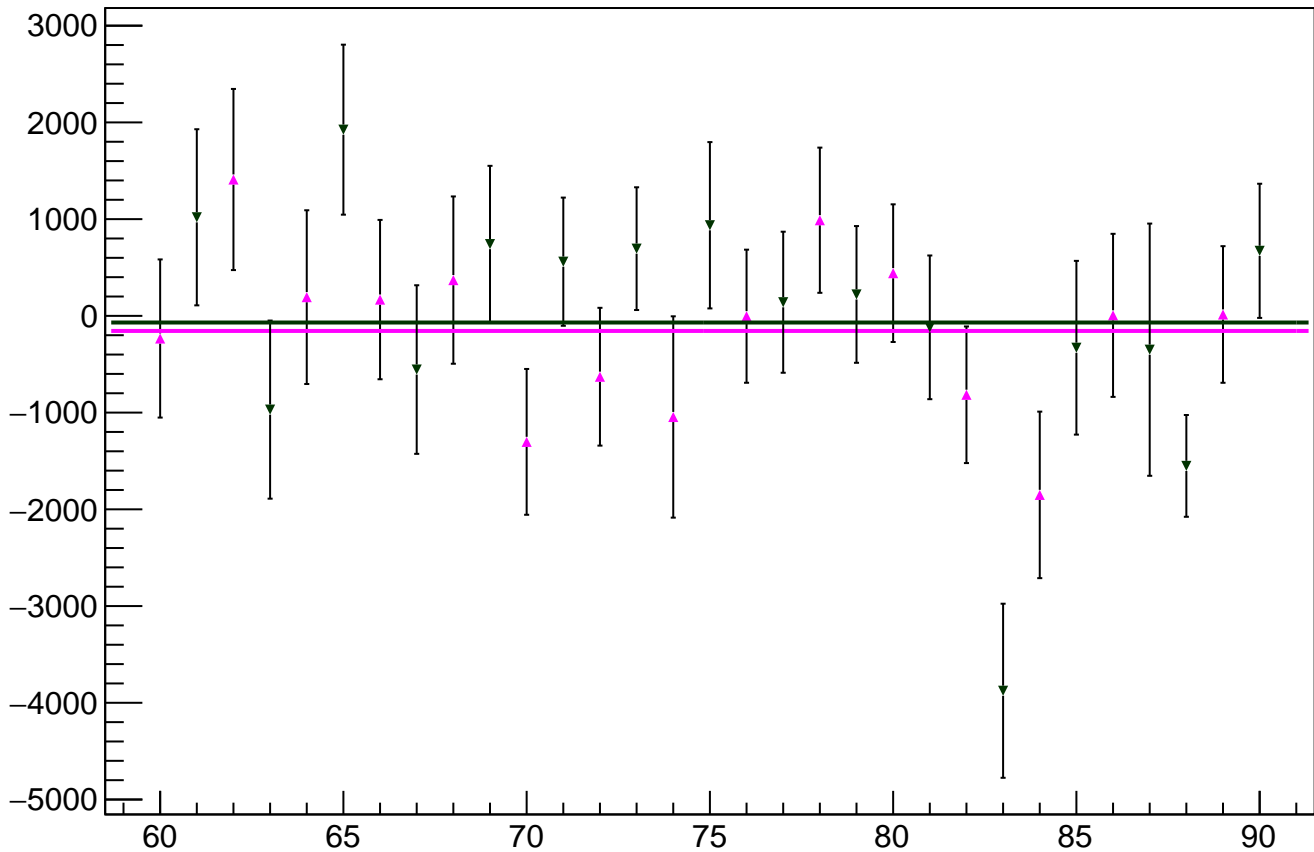
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1696.889+/-0.448  $\chi^2/\text{NDF}$ : 892559.3/14

Left In: 1696.889+/-0.448  $\chi^2/\text{NDF}$ : 892559.3/14



# reg\_asym\_sam\_37\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -68.636+/-192.125  $\chi^2$ /NDF:39.9/15

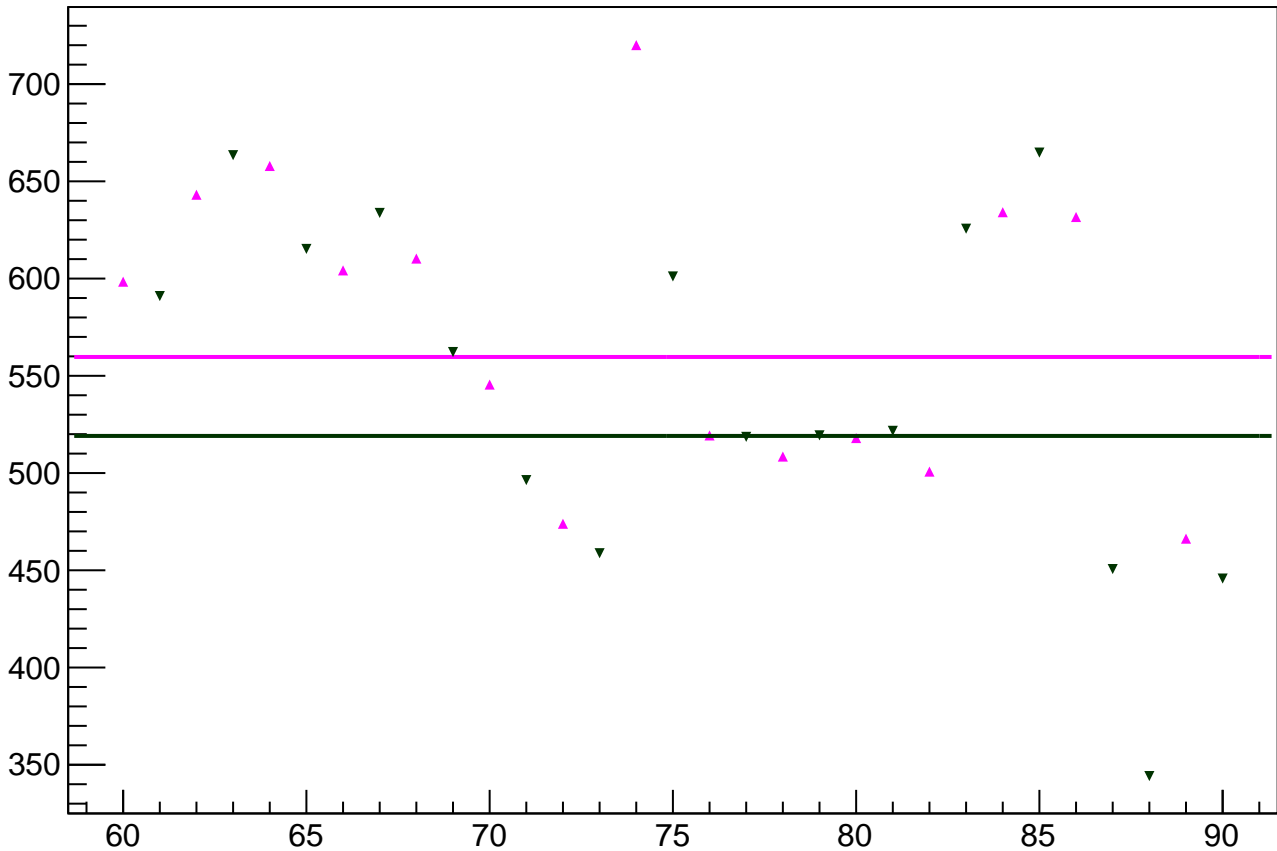
-68.636+/-192.125  $\chi^2$ /NDF: 39.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-155.799+/-204.239  $\chi^2$ /NDF: 14.9/14

Left In: -155.799+/-204.239  $\chi^2$ /NDF:14.9/14

# reg\_asym\_sam\_37\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 519.089+/-0.136  $\chi^2$ /NDF:494111.5/15

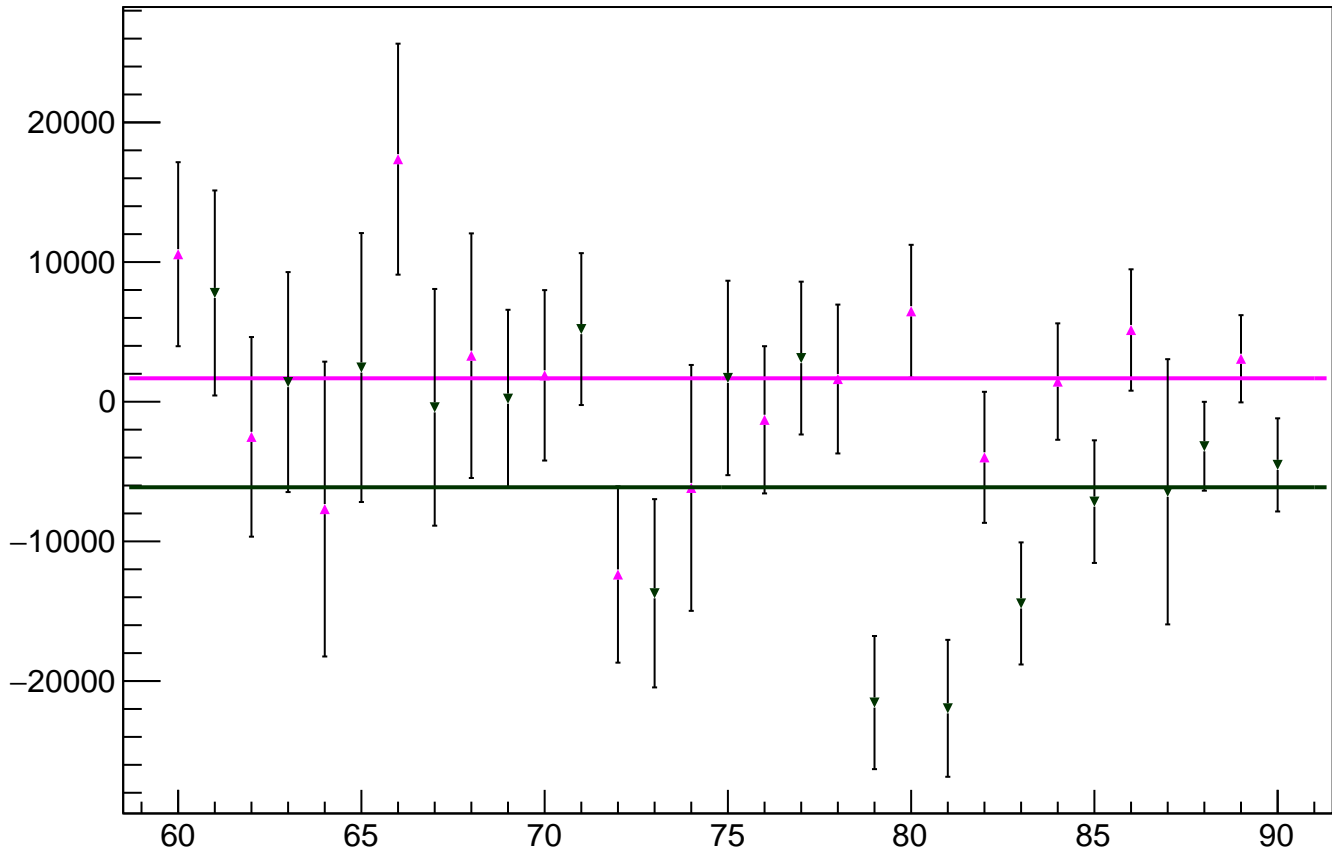
519.089+/-0.136  $\chi^2$ /NDF: 494111.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

559.690+/-0.144  $\chi^2$ /NDF: 235692.3/14

Left In: 559.690+/-0.144  $\chi^2$ /NDF:235692.3/14

# asym\_sam\_37\_avg\_correction\_mean vs slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-6125.416 \pm 1309.070$   $\chi^2/\text{NDF}: 42.1/15$

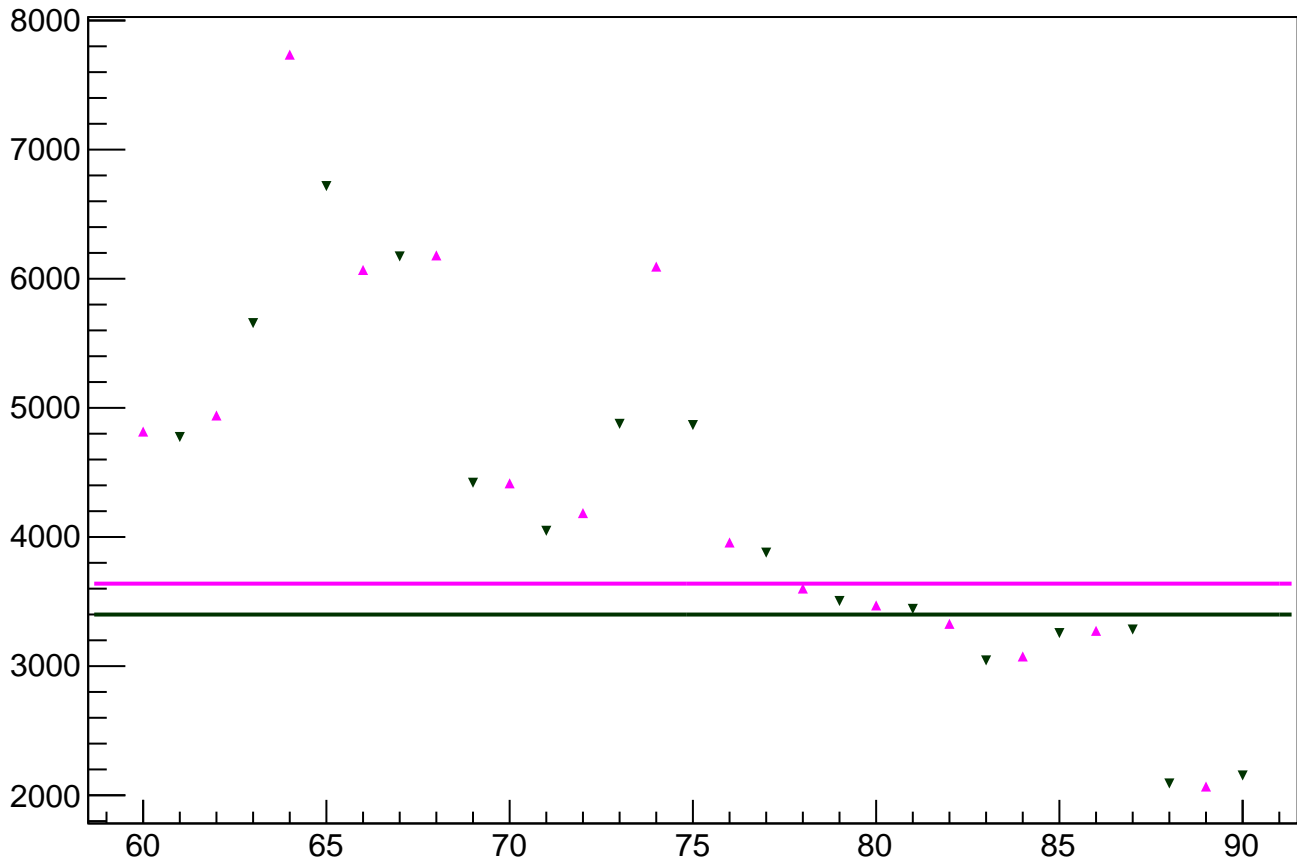
$-6125.416 \pm 1309.070$   $\chi^2/\text{NDF}: 42.1/15$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

$1677.956 \pm 1389.494$   $\chi^2/\text{NDF}: 16.0/14$

Left In:  $1677.956 \pm 1389.494$   $\chi^2/\text{NDF}: 16.0/14$

# asym\_sam\_37\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3399.493+/-0.926  $\chi^2$ /NDF:1600303.0/15

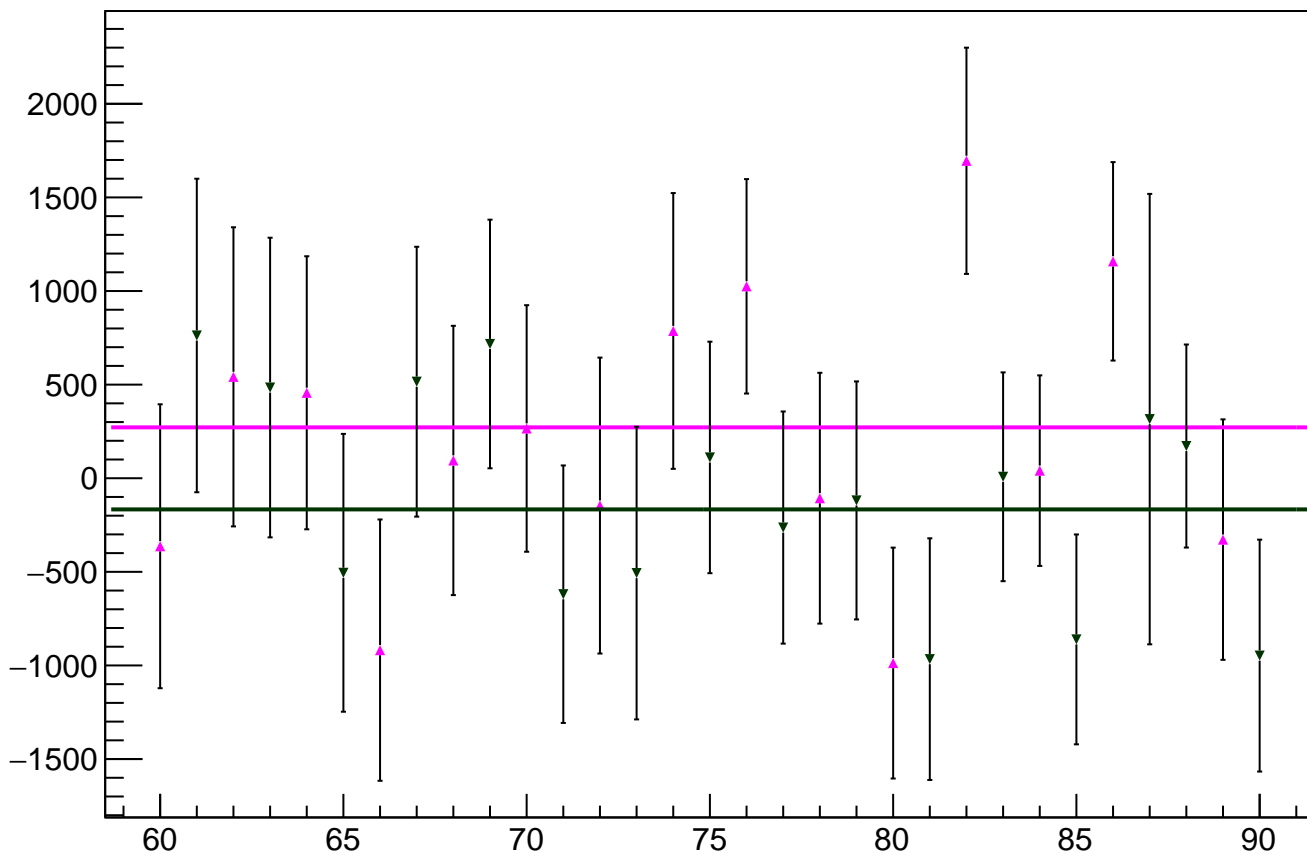
3399.493+/-0.926  $\chi^2$ /NDF: 1600303.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 3638.784+/-0.983  $\chi^2$ /NDF:1551345.3/14

3638.784+/-0.983  $\chi^2$ /NDF: 1551345.3/14

# reg\_asym\_sam\_48\_avg\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -166.490+/-166.811  $\chi^2$ /NDF:10.9/15

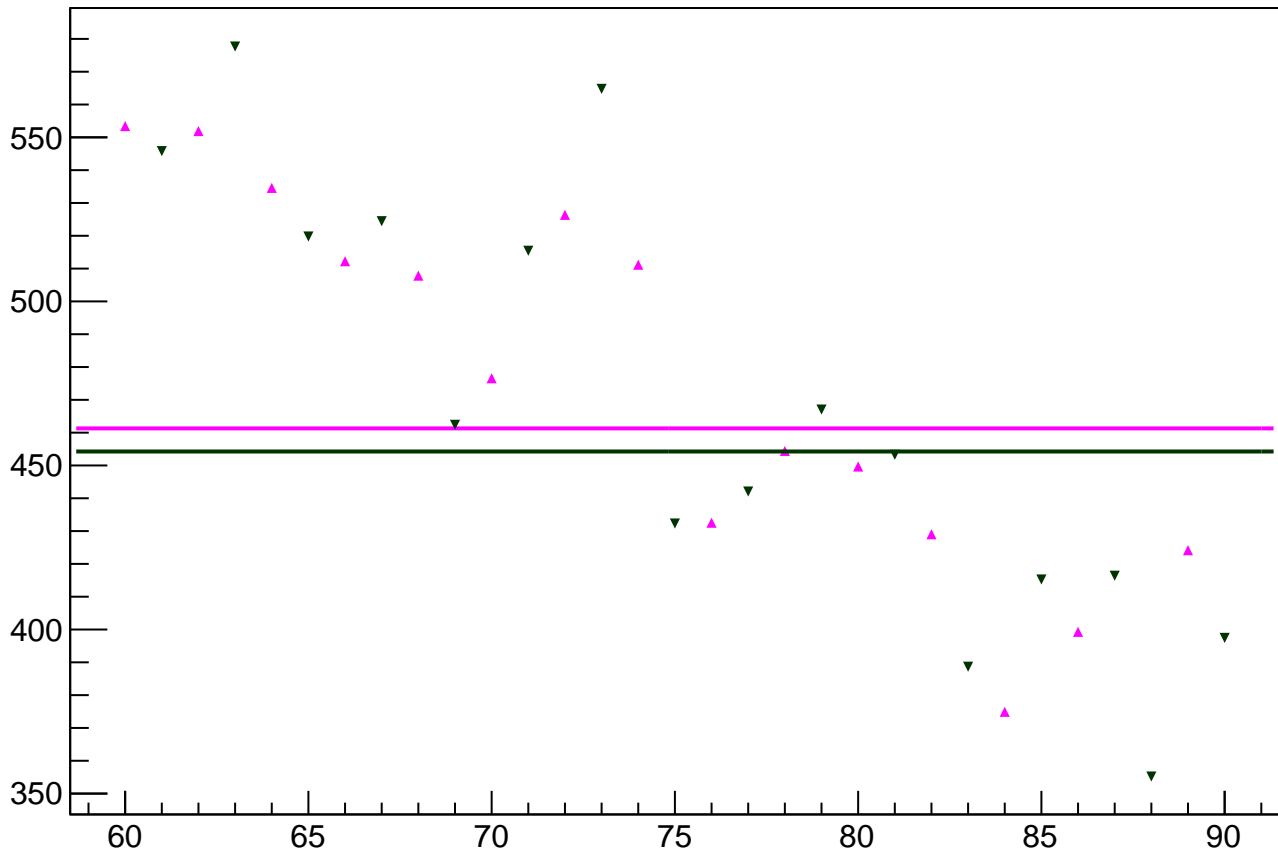
-166.490+/-166.811  $\chi^2$ /NDF: 10.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

271.737+/-168.041  $\chi^2$ /NDF: 20.3/14

Left In: 271.737+/-168.041  $\chi^2$ /NDF:20.3/14

# reg\_asym\_sam\_48\_avg\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 454.256+/-0.118  $\chi^2/\text{NDF}$ :289178.5/15

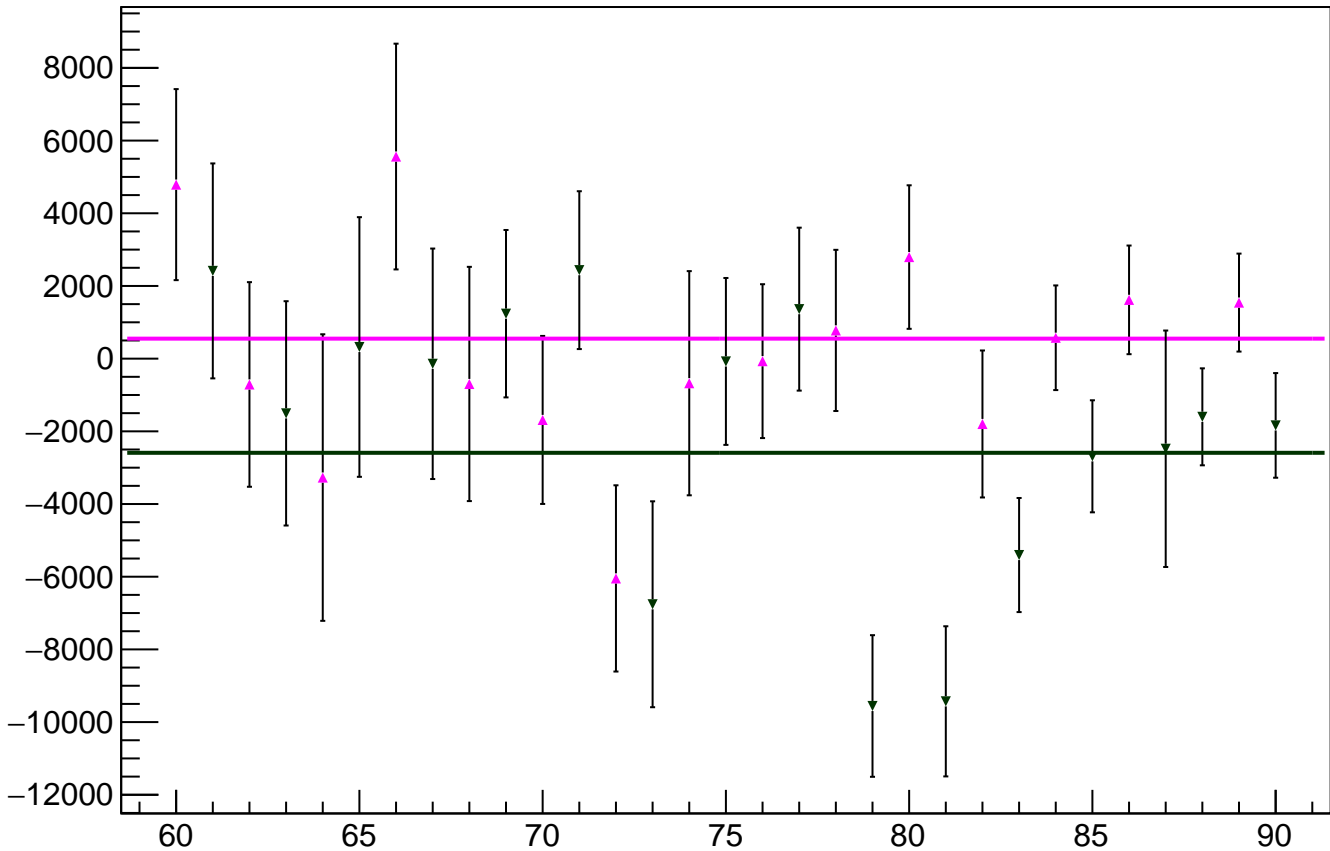
454.256+/-0.118  $\chi^2/\text{NDF}$ : 289178.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 461.295+/-0.119  $\chi^2/\text{NDF}$ :221654.2/14

461.295+/-0.119  $\chi^2/\text{NDF}$ : 221654.2/14

# asym\_sam\_48\_avg\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2590.743+/-514.734  $\chi^2$ /NDF: 46.6/15

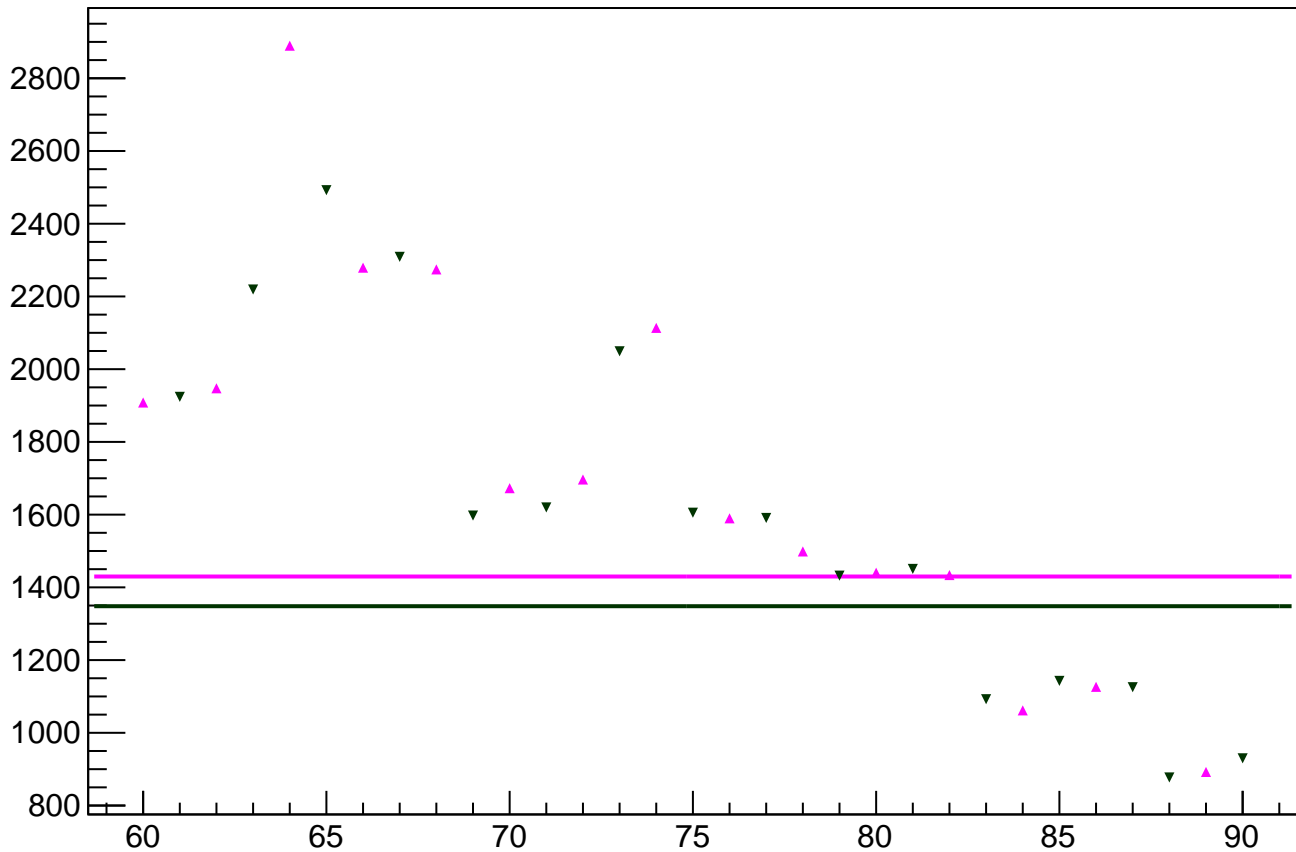
Left Out: -2590.743+/-514.734  $\chi^2$ /NDF: 46.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

550.440+/-543.283  $\chi^2$ /NDF: 18.0/14

Left In: 550.440+/-543.283  $\chi^2$ /NDF: 18.0/14

# asym\_sam\_48\_avg\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1348.167+/-0.364  $\chi^2/\text{NDF}$ : 1374276.2/15

Left Out: 1348.167+/-0.364  $\chi^2/\text{NDF}$ : 1374276.2/15

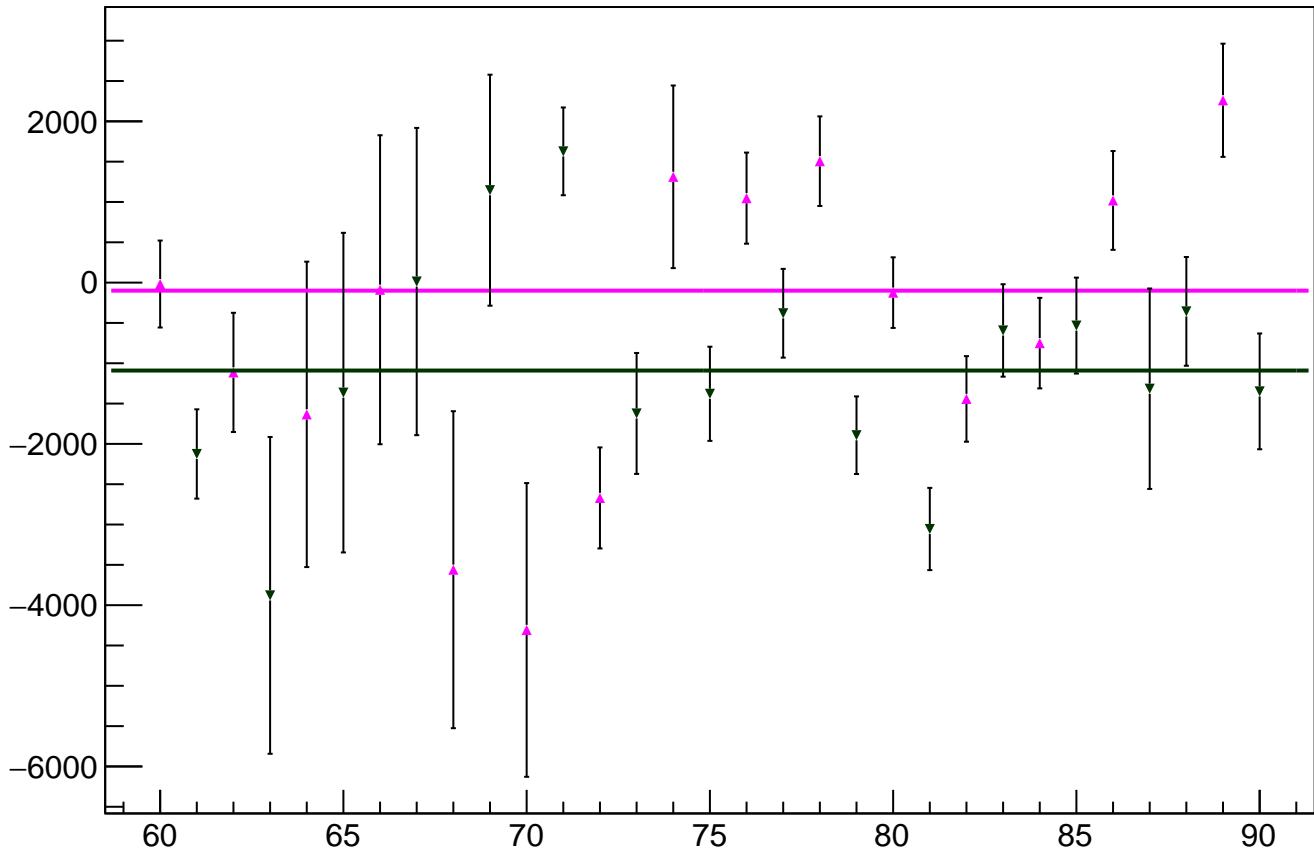
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1429.839+/-0.384  $\chi^2/\text{NDF}$ : 1381783.9/14

Left In: 1429.839+/-0.384  $\chi^2/\text{NDF}$ : 1381783.9/14



# asym\_sam\_15\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -1090.437+/-169.648  $\chi^2/\text{NDF}$ : 56.3/15

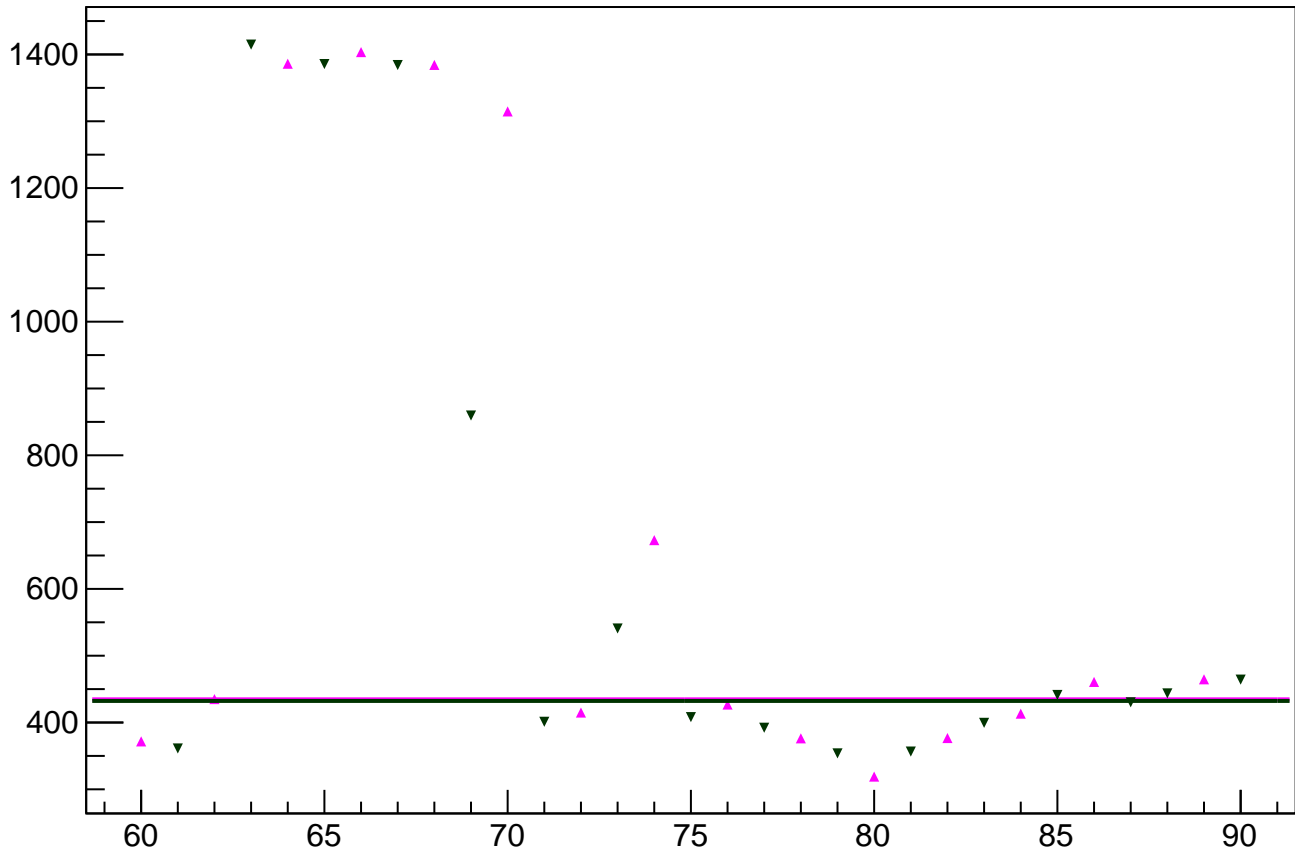
-1090.437+/-169.648  $\chi^2/\text{NDF}$ : 56.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-99.789+/-174.822  $\chi^2/\text{NDF}$ : 64.3/14

Left In: -99.789+/-174.822  $\chi^2/\text{NDF}$ : 64.3/14

# asym\_sam\_15\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 432.305+/-0.120  $\chi^2$ /NDF:1844666.3/15

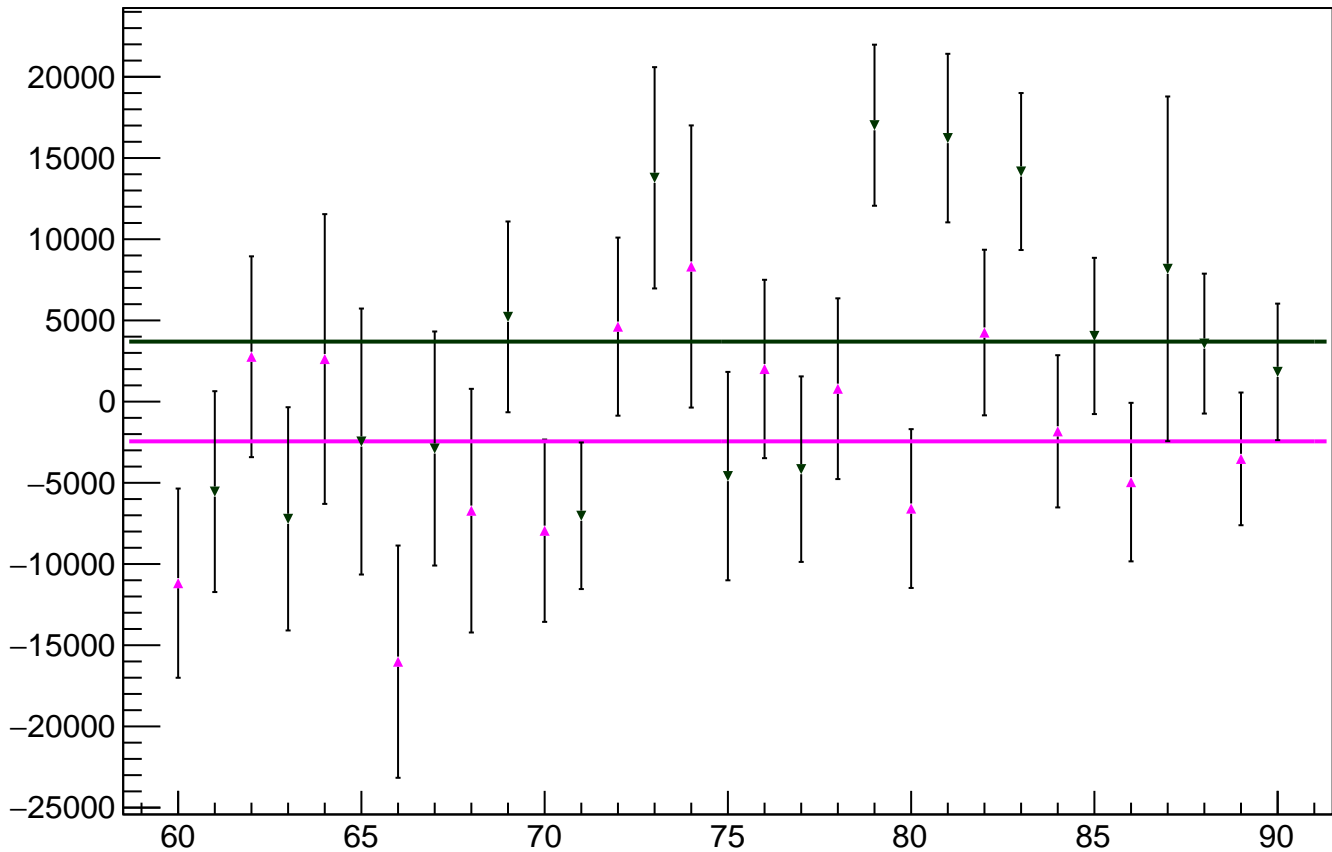
432.305+/-0.120  $\chi^2$ /NDF: 1844666.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 434.693+/-0.124  $\chi^2$ /NDF:2264003.2/14

434.693+/-0.124  $\chi^2$ /NDF: 2264003.2/14

# asym\_sam\_26\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3695.878+/-1387.797  $\chi^2$ /NDF: 35.7/15

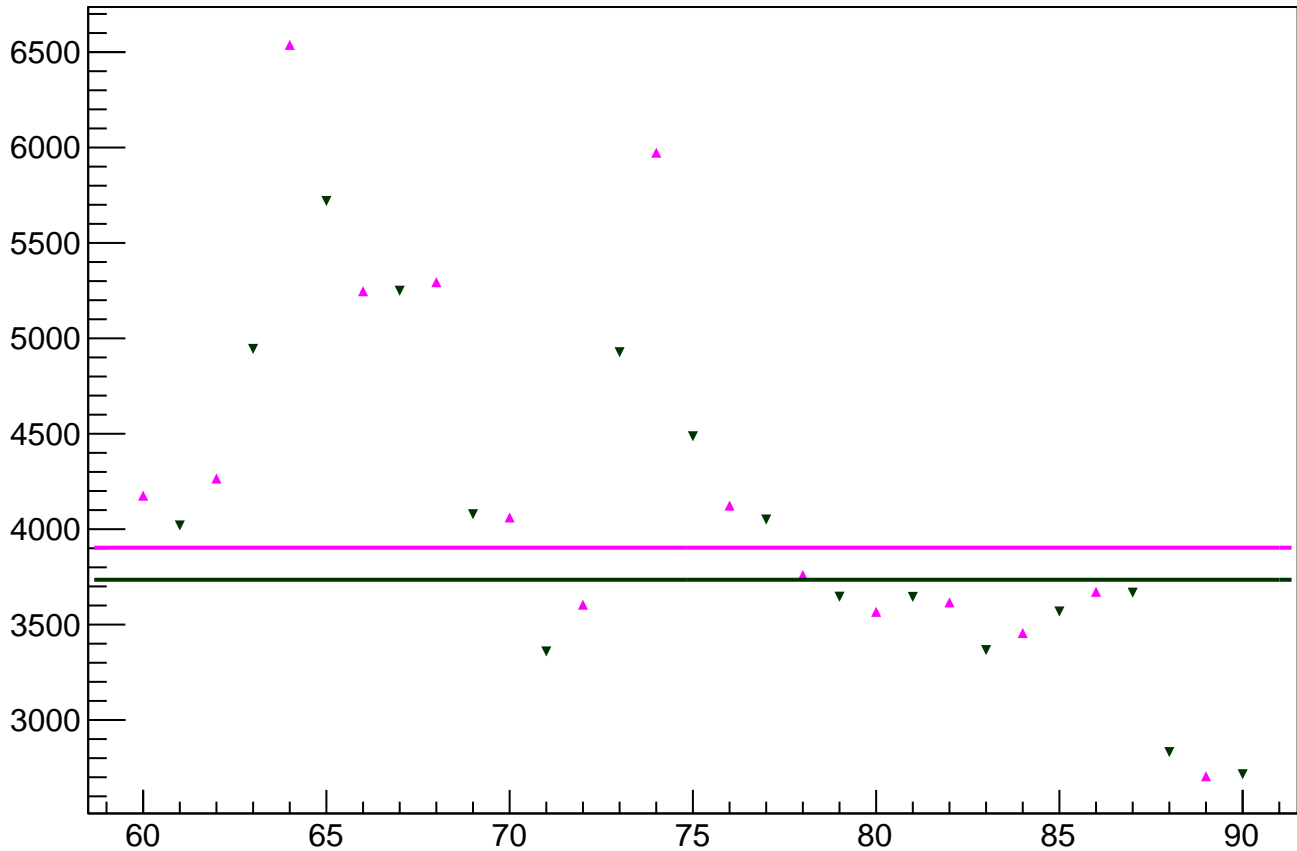
Left Out: 3695.878+/-1387.797  $\chi^2$ /NDF:35.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2446.688+/-1448.062  $\chi^2$ /NDF: 15.2/14

Left In: -2446.688+/-1448.062  $\chi^2$ /NDF:15.2/14

# asym\_sam\_26\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3734.932+/-0.981  $\chi^2$ /NDF: 608398.7/15

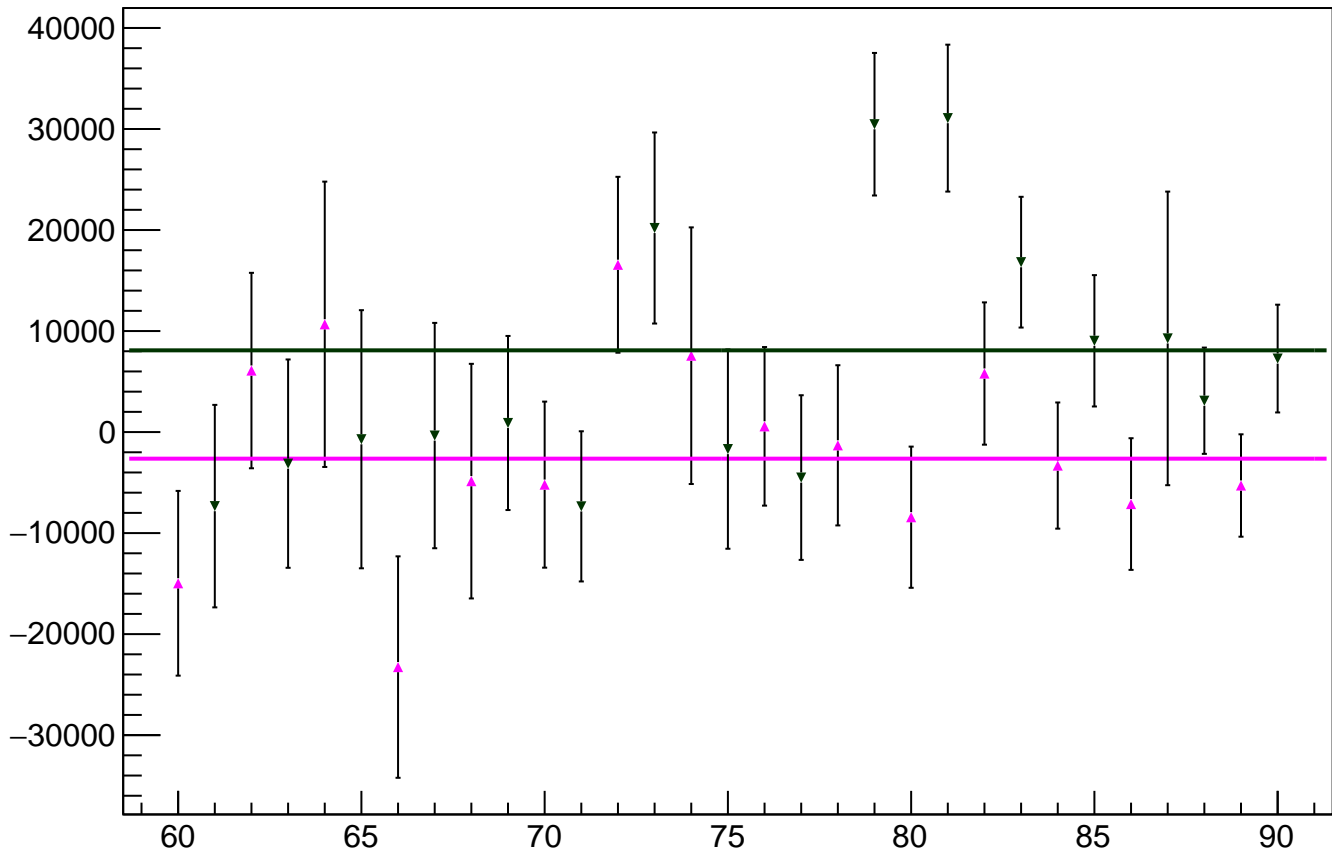
Left Out: 3734.932+/-0.981  $\chi^2$ /NDF:608398.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3903.023+/-1.024  $\chi^2$ /NDF: 661213.3/14

Left In: 3903.023+/-1.024  $\chi^2$ /NDF:661213.3/14

# asym\_sam\_37\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8089.963+/-1945.584  $\chi^2$ /NDF:37.4/15

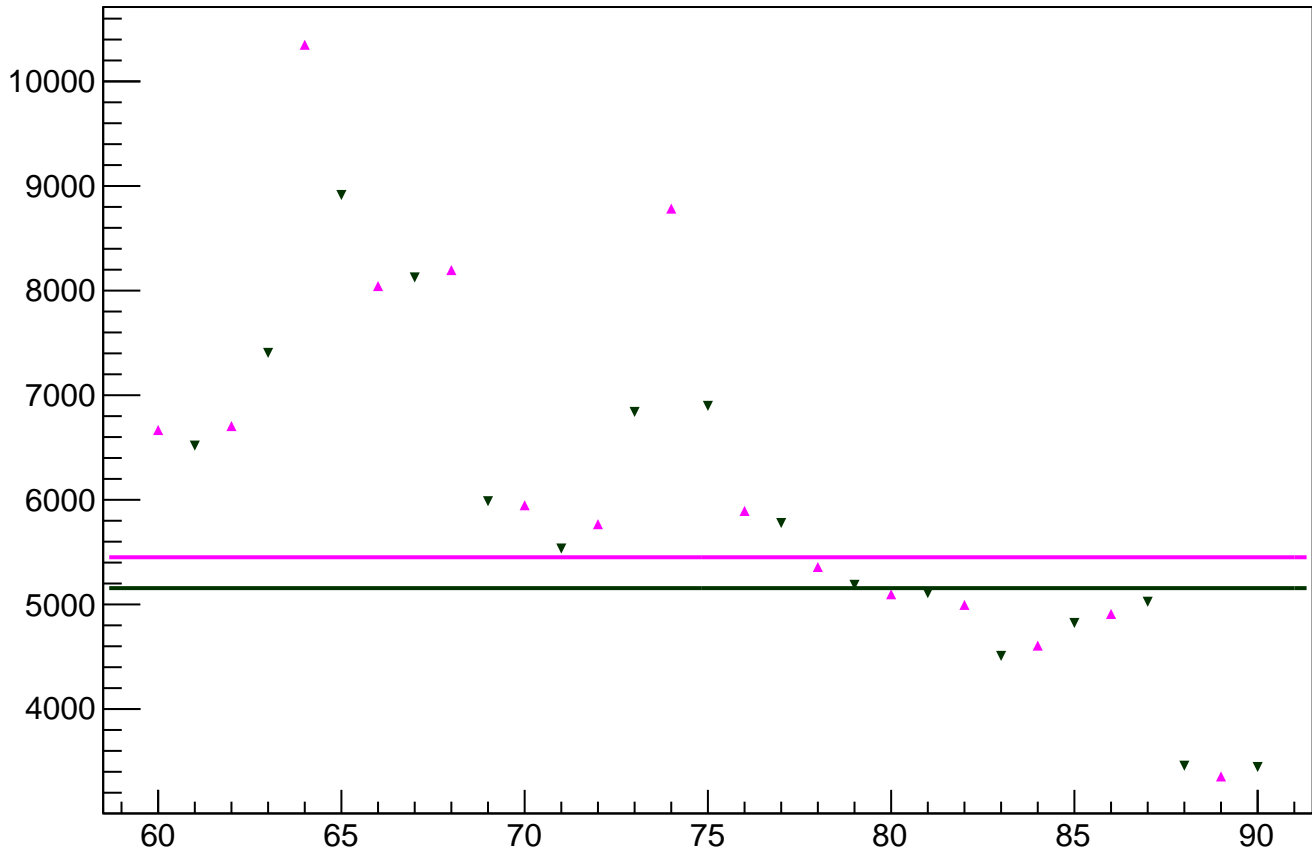
8089.963+/-1945.584  $\chi^2$ /NDF: 37.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2632.704+/-2047.644  $\chi^2$ /NDF: 15.8/14

Left In: -2632.704+/-2047.644  $\chi^2$ /NDF:15.8/14

# asym\_sam\_37\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5155.840+/-1.376  $\chi^2$ /NDF:1047756.0/15

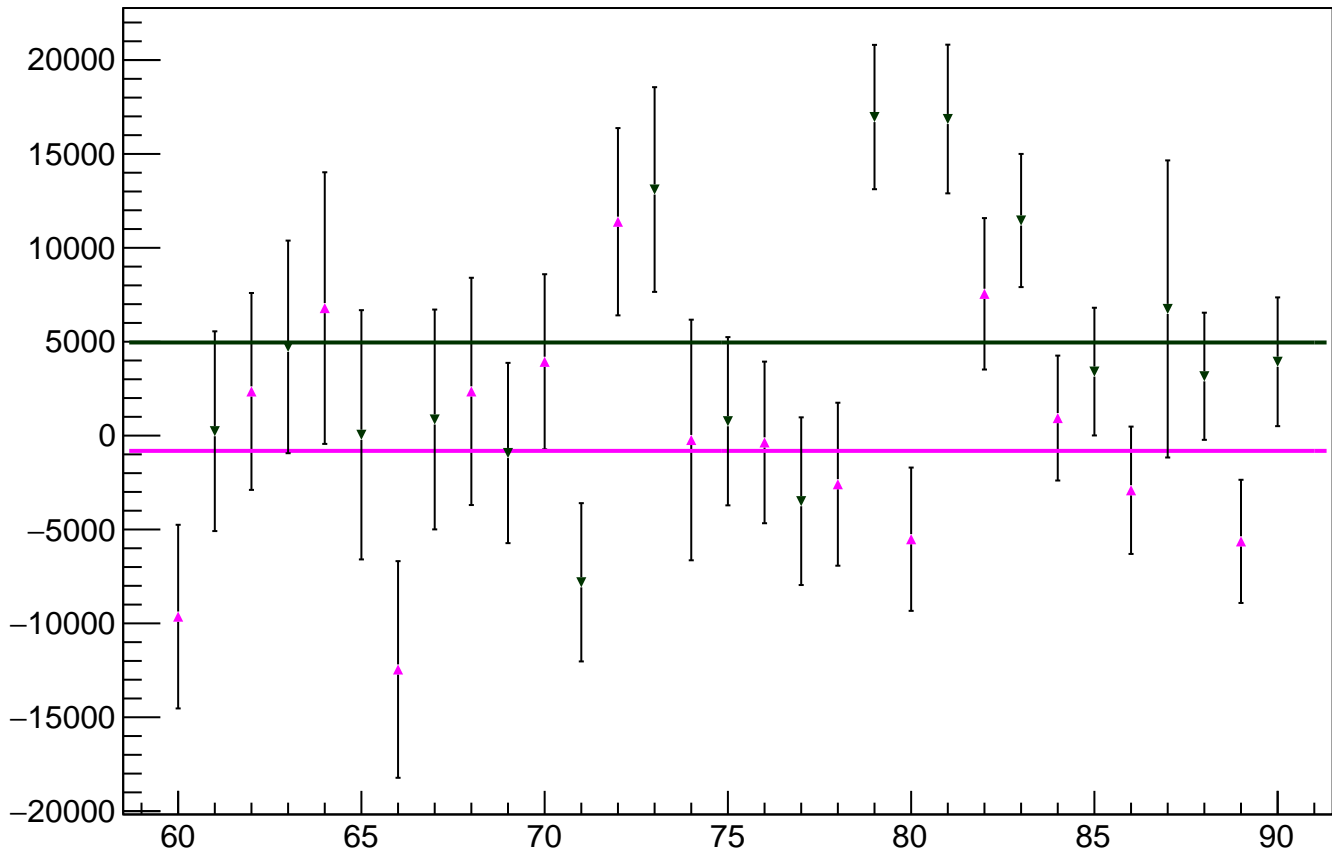
5155.840+/-1.376  $\chi^2$ /NDF: 1047756.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5450.904+/-1.448  $\chi^2$ /NDF: 1093424.0/14

Left In: 5450.904+/-1.448  $\chi^2$ /NDF:1093424.0/14

# asym\_sam\_48\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4959.068+/-1092.685  $\chi^2$ /NDF: 42.0/15

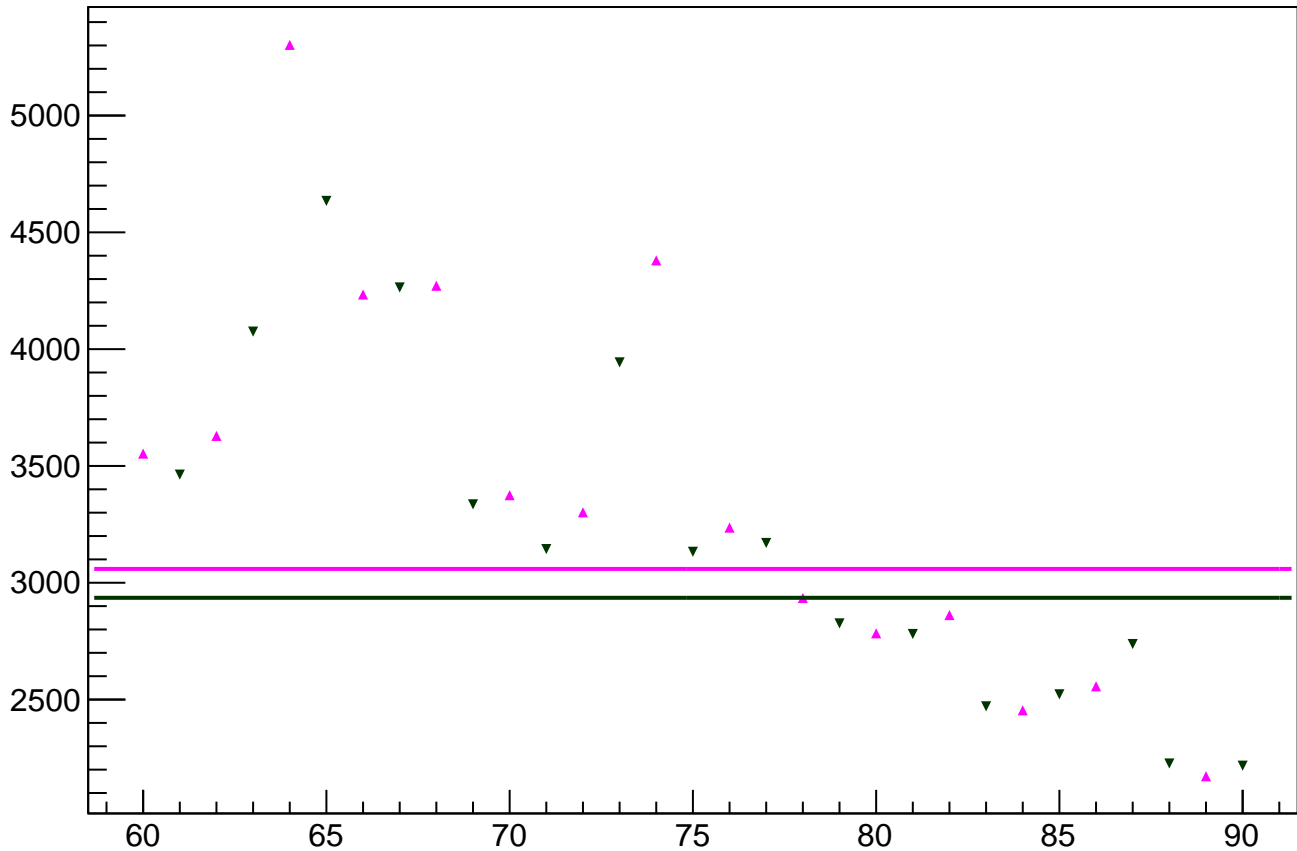
Left Out: 4959.068+/-1092.685  $\chi^2$ /NDF:42.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-813.732+/-1137.544  $\chi^2$ /NDF: 24.9/14

Left In: -813.732+/-1137.544  $\chi^2$ /NDF:24.9/14

# asym\_sam\_48\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2935.587+/-0.773  $\chi^2$ /NDF: 676752.9/15

Left Out: 2935.587+/-0.773  $\chi^2$ /NDF:676752.9/15

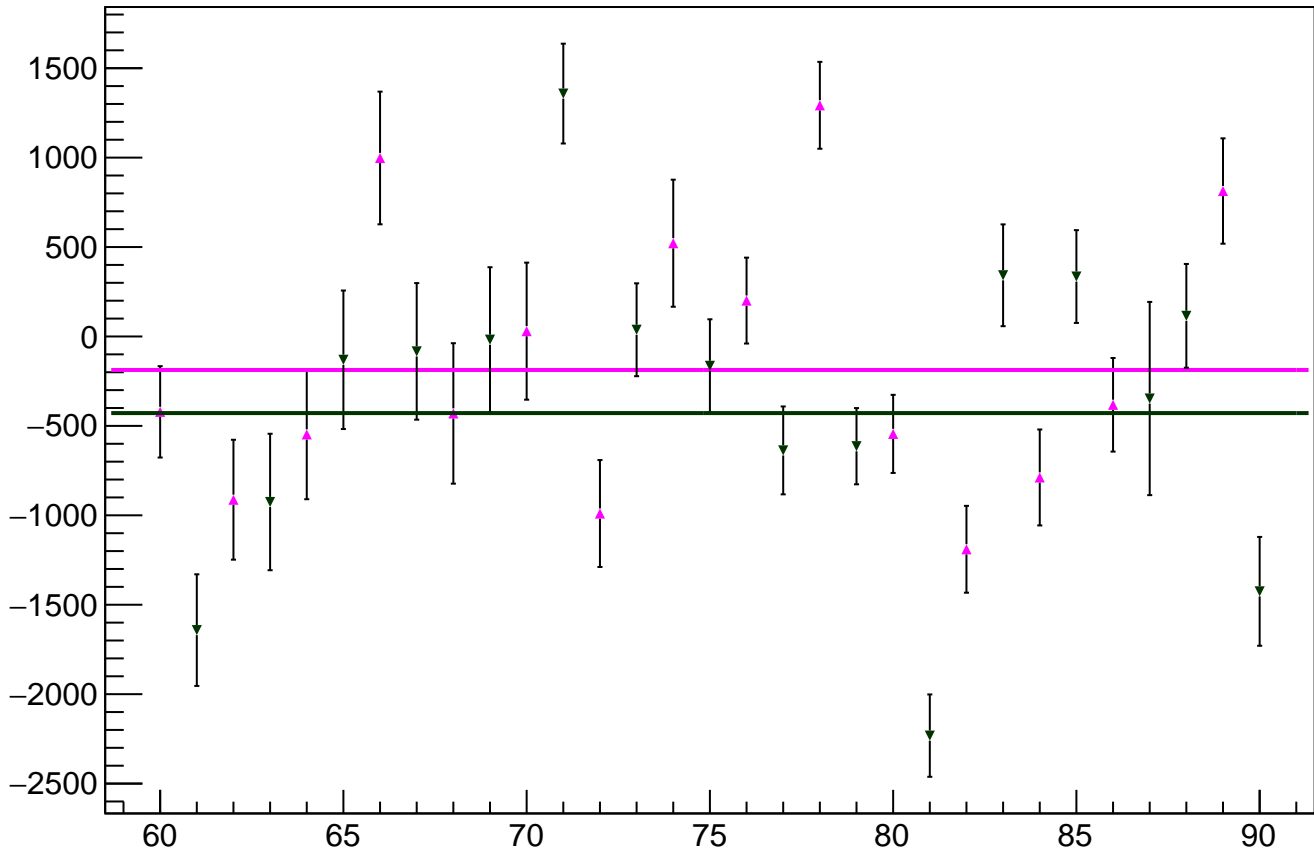
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3059.241+/-0.804  $\chi^2$ /NDF: 775251.2/14

Left In: 3059.241+/-0.804  $\chi^2$ /NDF:775251.2/14



# reg\_asym\_sam\_15\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-428.376+/-72.557  $\chi^2/\text{NDF}$ : 157.6/15

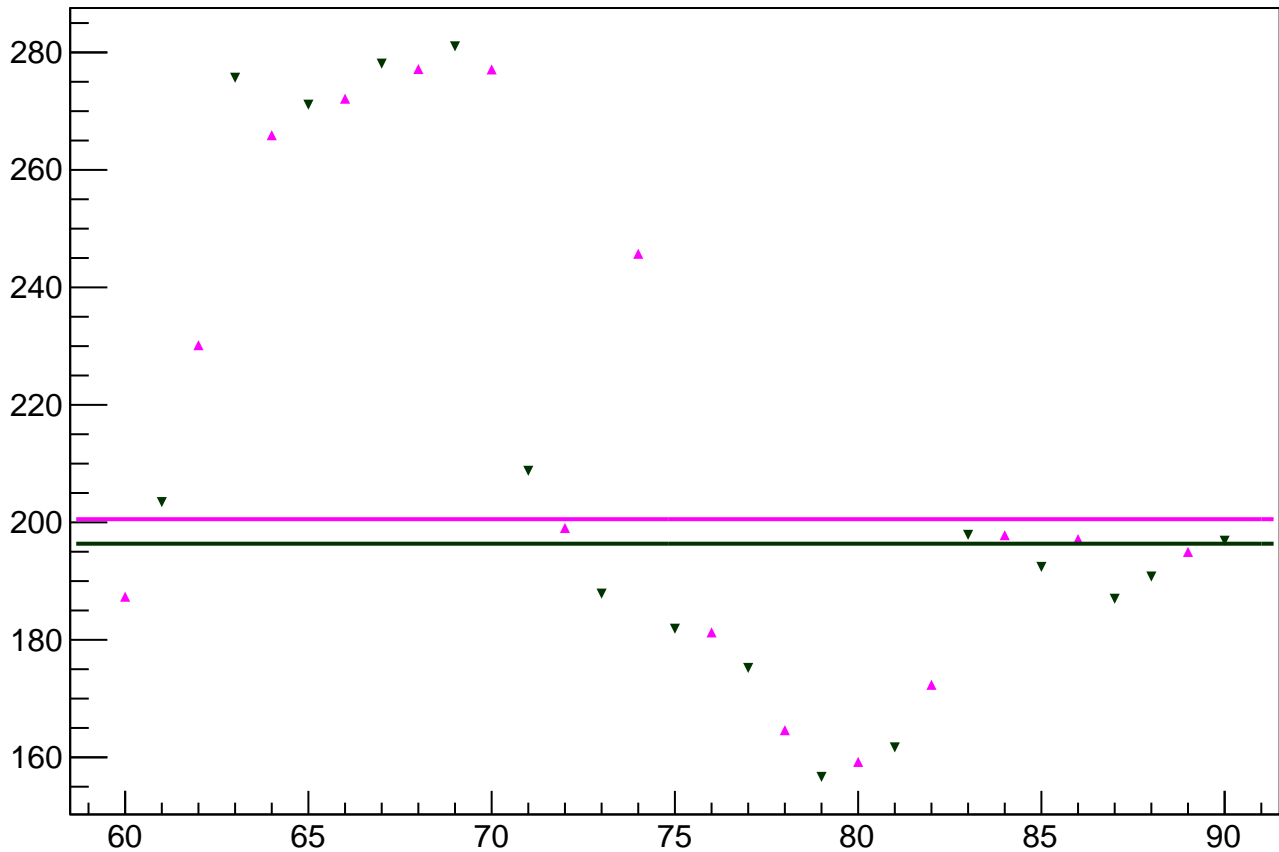
Left Out: -428.376+/-72.557  $\chi^2/\text{NDF}$ : 157.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-187.290+/-73.767  $\chi^2/\text{NDF}$ : 105.2/14

Left In: -187.290+/-73.767  $\chi^2/\text{NDF}$ : 105.2/14

# reg\_asym\_sam\_15\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 196.366+/-0.051  $\chi^2/\text{NDF}$ : 484755.9/15

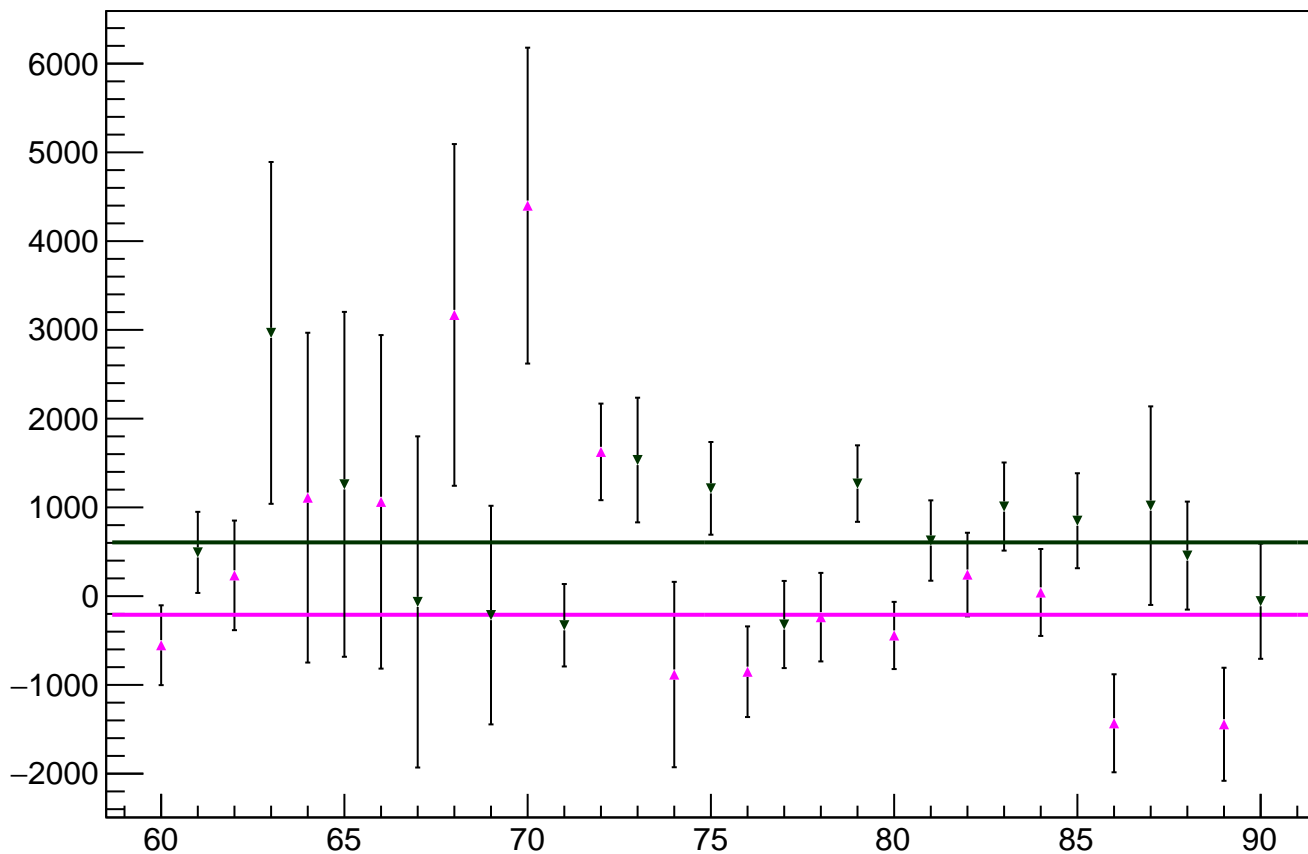
196.366+/-0.051  $\chi^2/\text{NDF}$ : 484755.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 200.539+/-0.052  $\chi^2/\text{NDF}$ : 505406.8/14

200.539+/-0.052  $\chi^2/\text{NDF}$ : 505406.8/14

# asym\_sam\_15\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 605.724+/-150.010  $\chi^2/\text{NDF}$ : 17.4/15

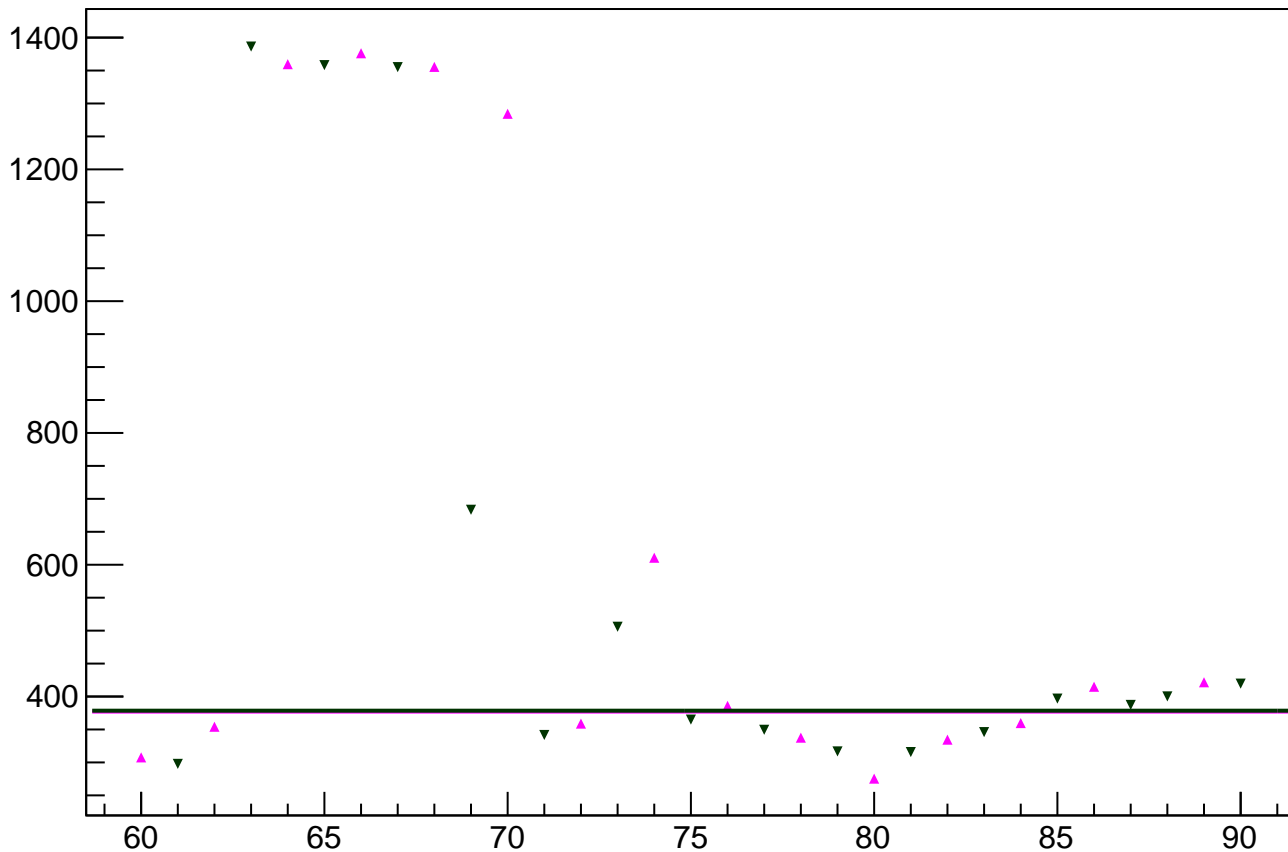
605.724+/-150.010  $\chi^2/\text{NDF}$ : 17.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-209.797+/-153.789  $\chi^2/\text{NDF}$ : 35.5/14

Left In: -209.797+/-153.789  $\chi^2/\text{NDF}$ : 35.5/14

# asym\_sam\_15\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 378.506+/-0.106  $\chi^2/\text{NDF}$ : 1977438.2/15

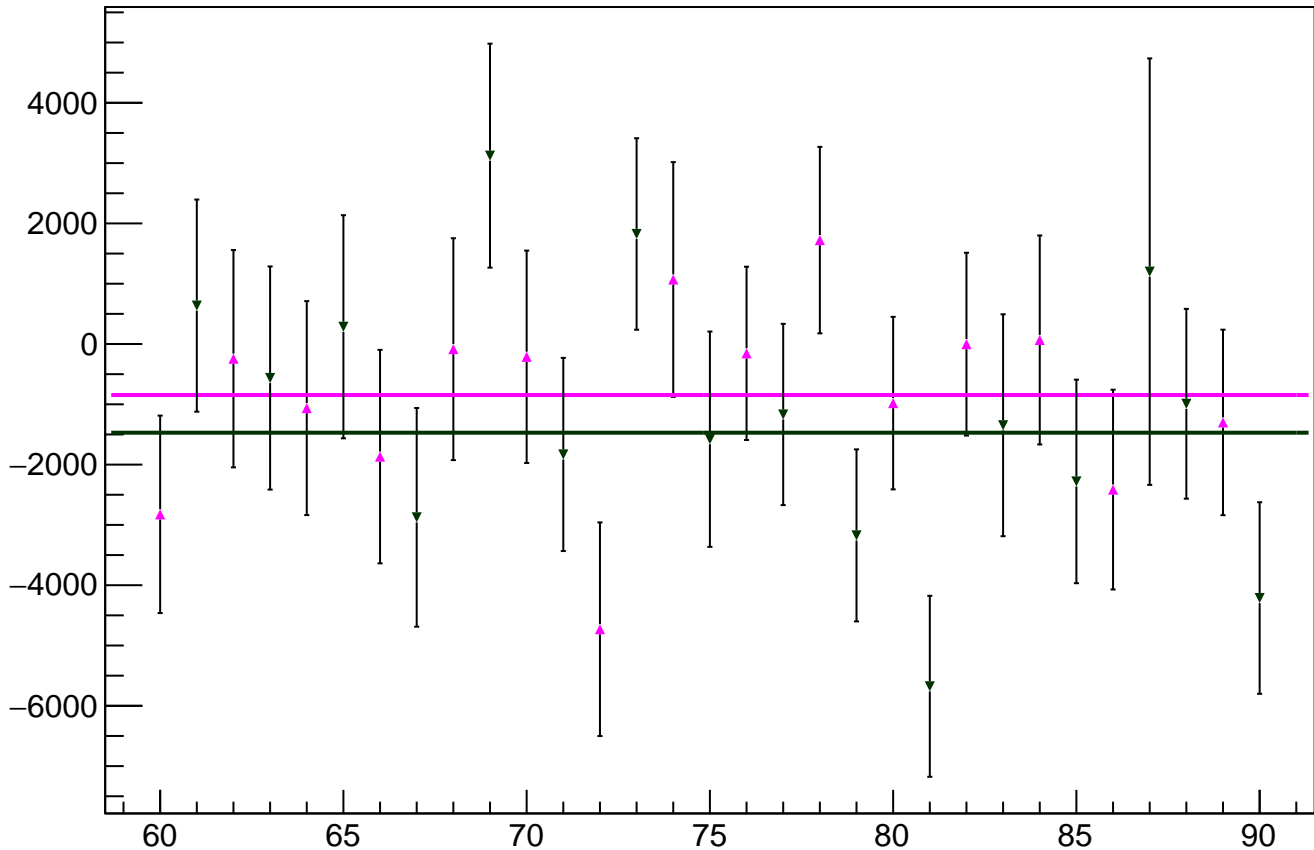
378.506+/-0.106  $\chi^2/\text{NDF}$ : 1977438.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

377.139+/-0.109  $\chi^2/\text{NDF}$ : 2509629.4/14

Left In: 377.139+/-0.109  $\chi^2/\text{NDF}$ : 2509629.4/14

# reg\_asym\_sam\_26\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1470.645+/-426.177  $\chi^2$ /NDF: 26.9/15

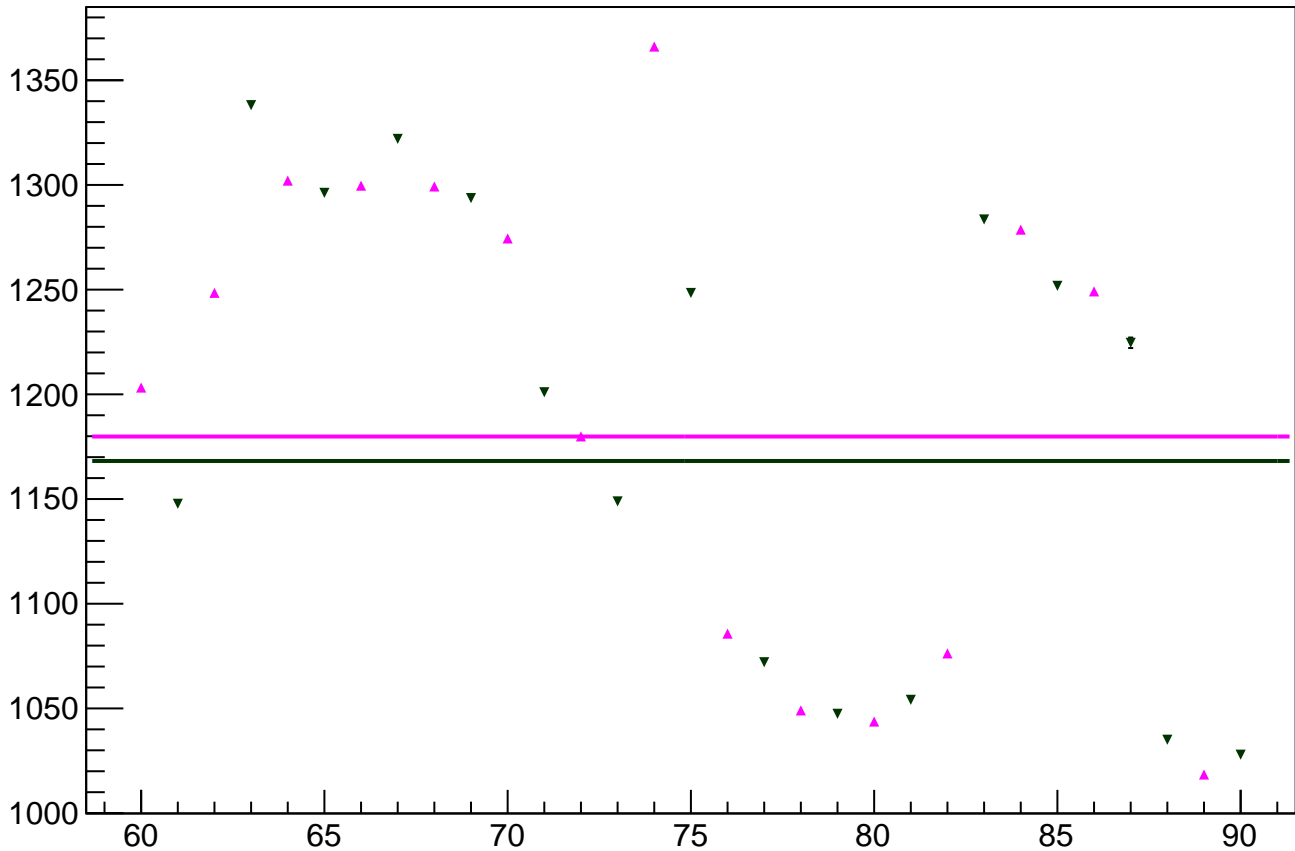
Left Out: -1470.645+/-426.177  $\chi^2$ /NDF:26.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-845.645+/-427.770  $\chi^2$ /NDF: 12.6/14

Left In: -845.645+/-427.770  $\chi^2$ /NDF:12.6/14

# reg\_asym\_sam\_26\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1168.172+/-0.301  $\chi^2$ /NDF:132659.8/15

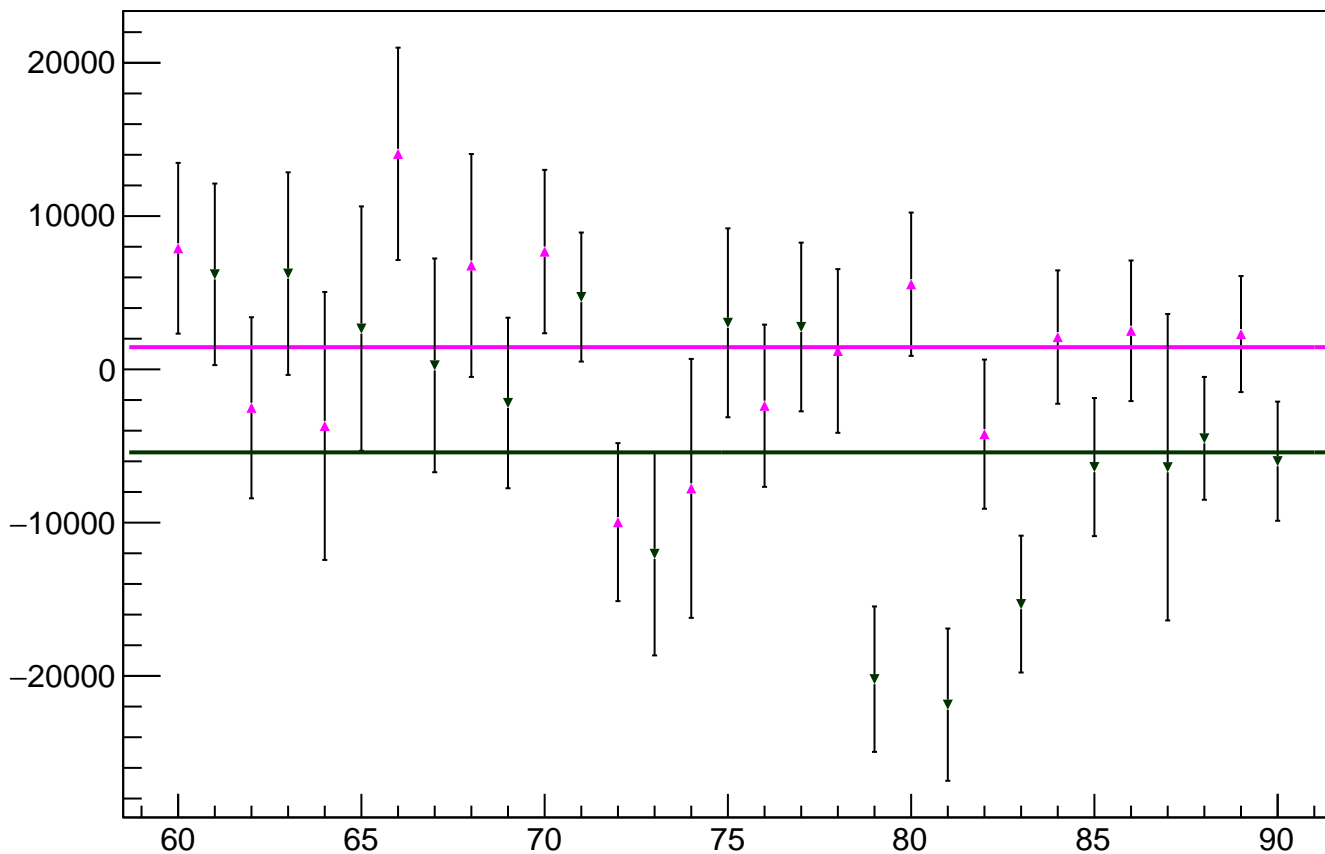
1168.172+/-0.301  $\chi^2$ /NDF: 132659.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1179.848+/-0.302  $\chi^2$ /NDF: 136831.0/14

Left In: 1179.848+/-0.302  $\chi^2$ /NDF:136831.0/14

# asym\_sam\_26\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5415.087+/-1311.404  $\chi^2$ /NDF:45.6/15

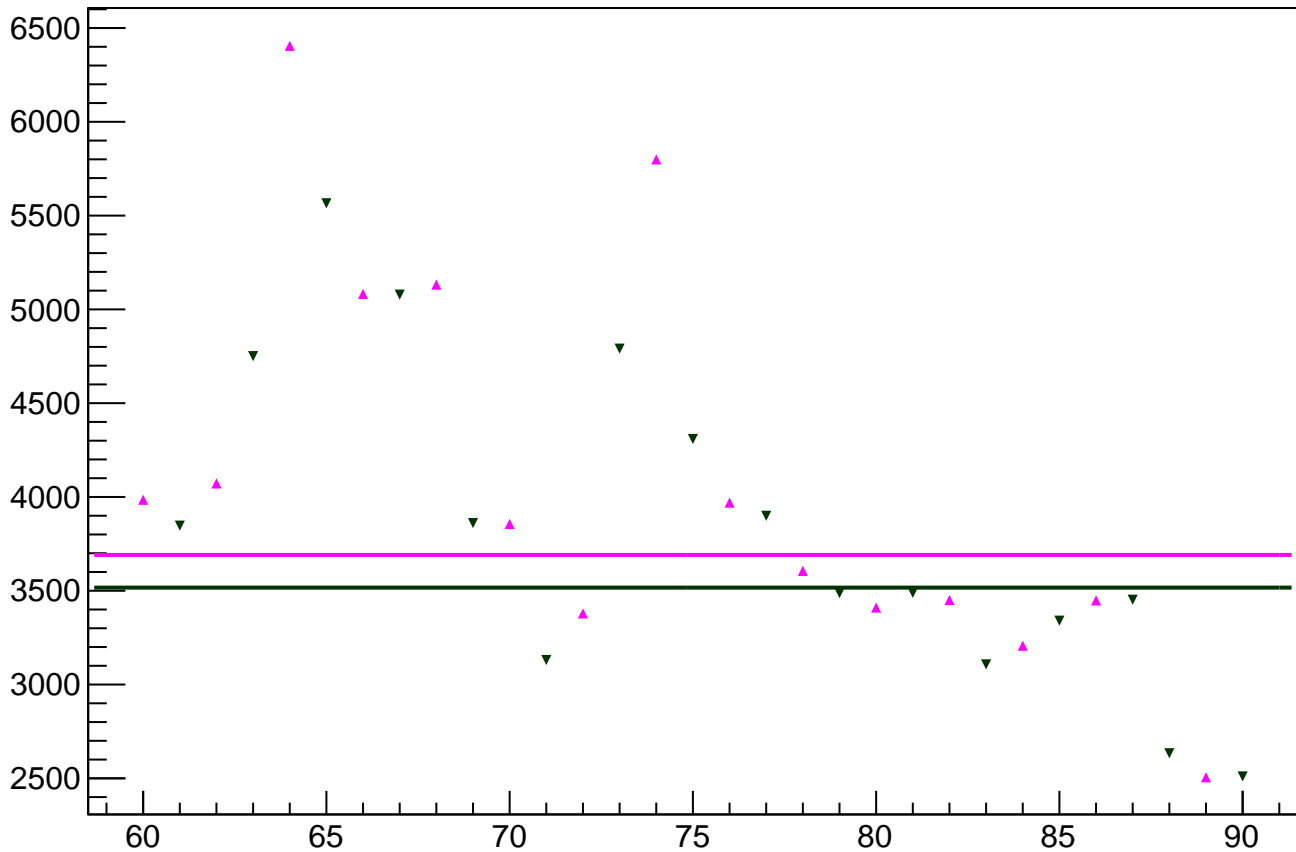
-5415.087+/-1311.404  $\chi^2$ /NDF: 45.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1448.259+/-1374.178  $\chi^2$ /NDF: 16.2/14

Left In: 1448.259+/-1374.178  $\chi^2$ /NDF:16.2/14

# asym\_sam\_26\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3516.740+/-0.927  $\chi^2$ /NDF:700949.8/15

3516.740+/-0.927  $\chi^2$ /NDF: 700949.8/15

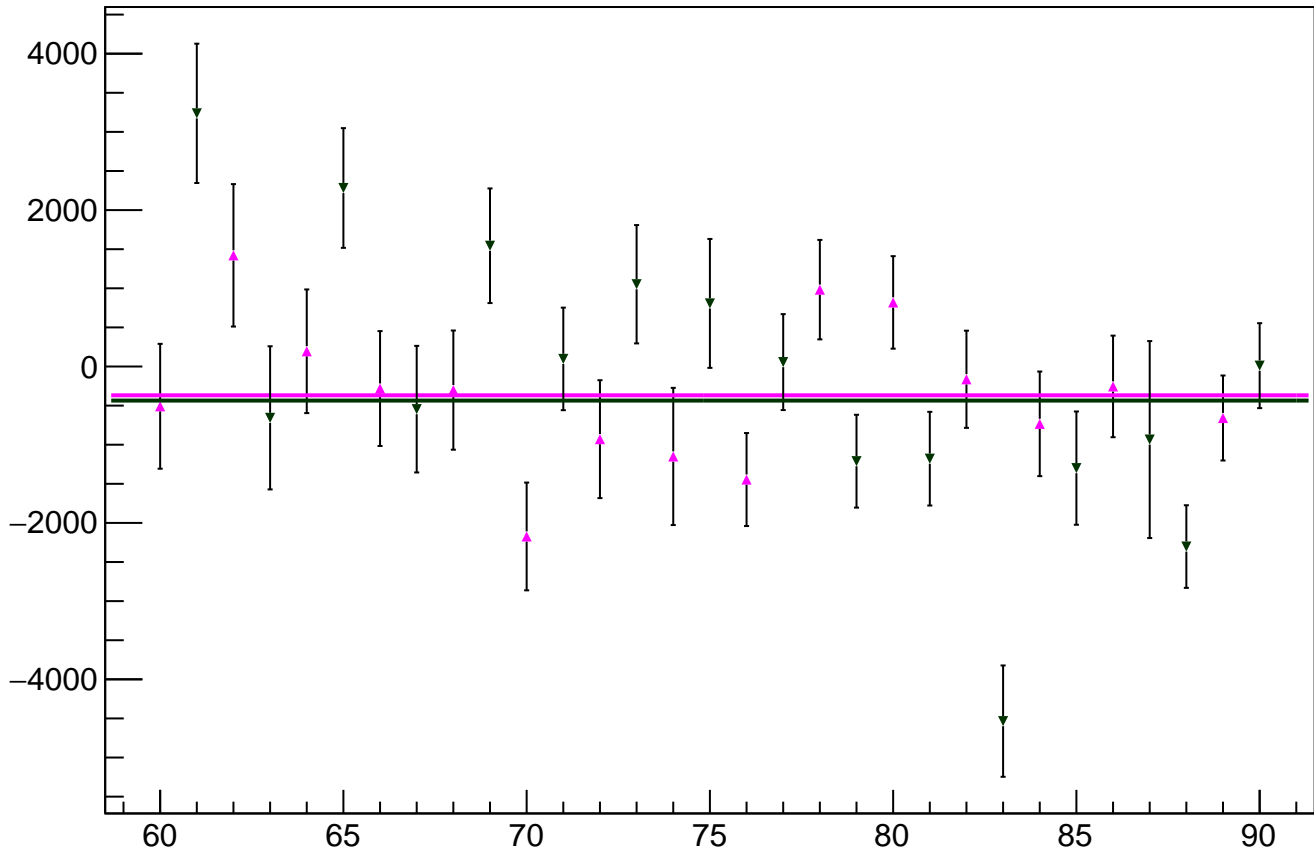
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3690.871+/-0.972  $\chi^2$ /NDF: 744635.0/14

Left In: 3690.871+/-0.972  $\chi^2$ /NDF:744635.0/14



# reg\_asym\_sam\_37\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -435.614+/-174.444  $\chi^2$ /NDF:95.6/15

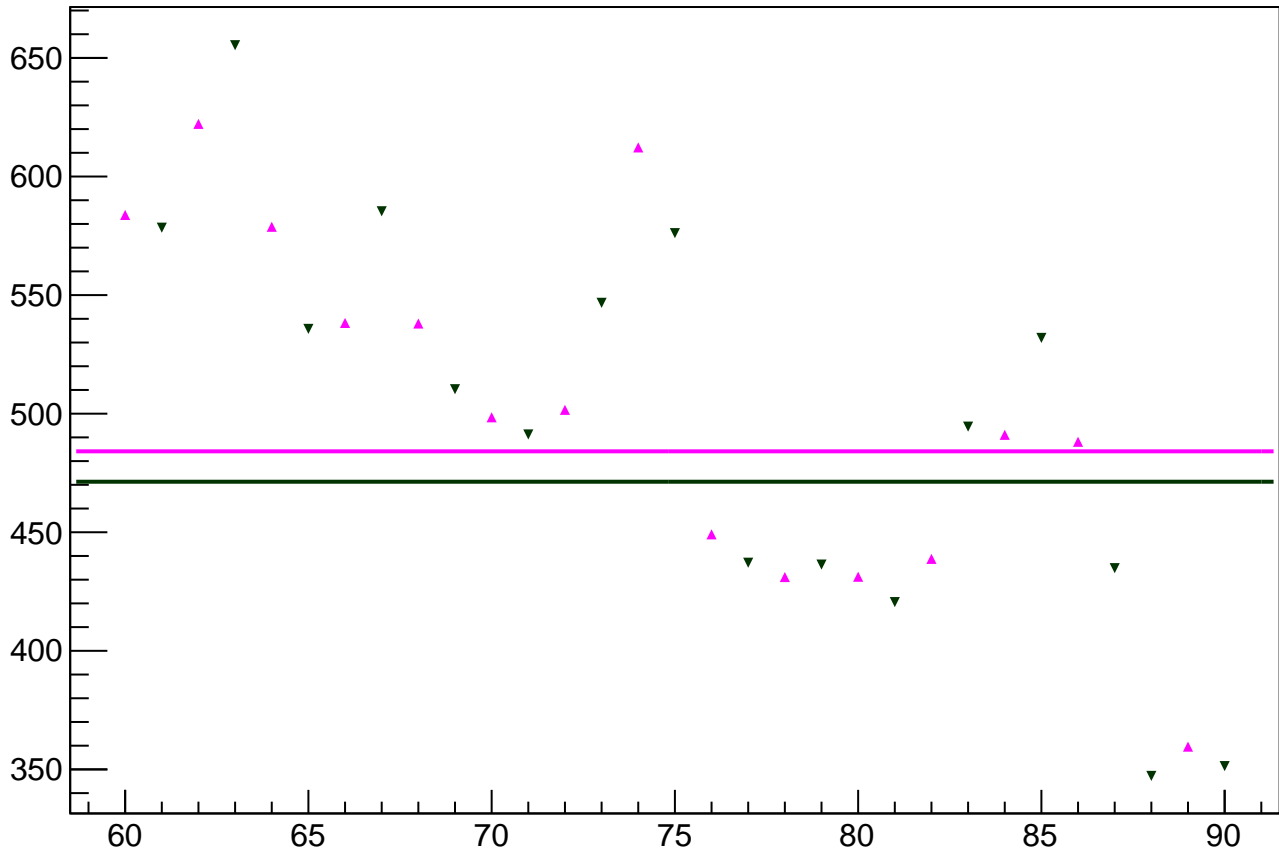
-435.614+/-174.444  $\chi^2$ /NDF: 95.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-368.236+/-177.158  $\chi^2$ /NDF: 25.2/14

Left In: -368.236+/-177.158  $\chi^2$ /NDF:25.2/14

# reg\_asym\_sam\_37\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 471.306+/-0.123  $\chi^2$ /NDF:476536.3/15

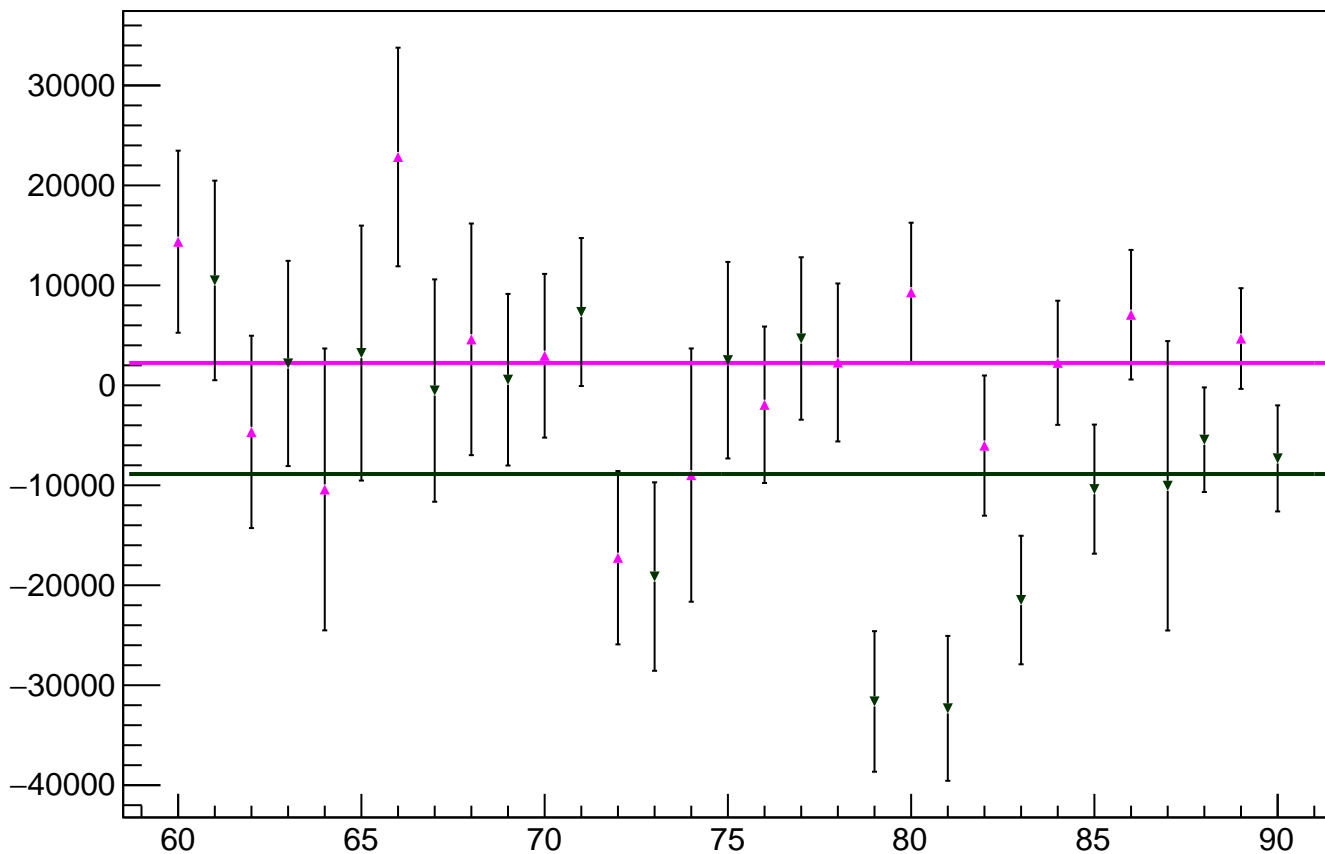
471.306+/-0.123  $\chi^2$ /NDF: 476536.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 484.123+/-0.125  $\chi^2$ /NDF:324156.4/14

484.123+/-0.125  $\chi^2$ /NDF: 324156.4/14

# asym\_sam\_37\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -8871.979+/-1936.802  $\chi^2$ /NDF:43.1/15

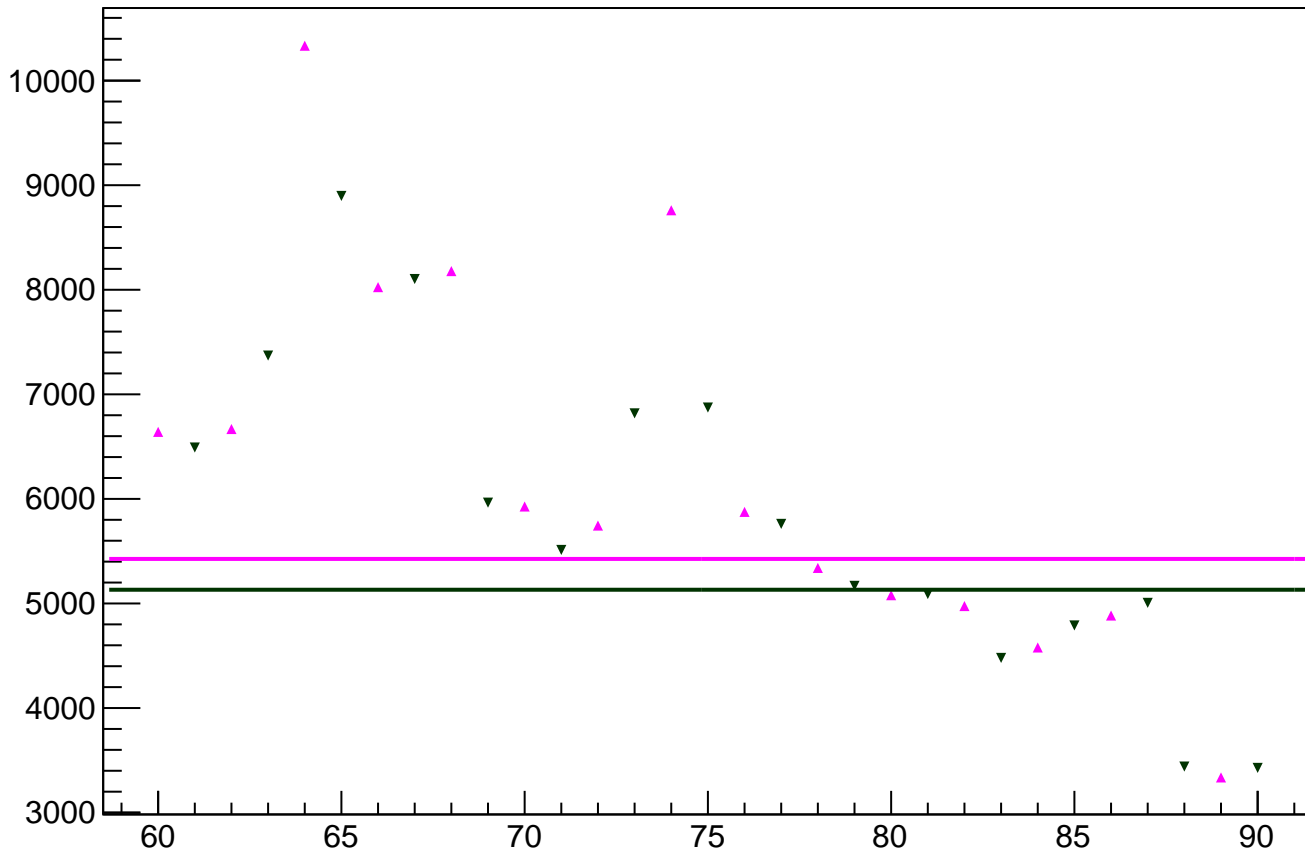
-8871.979+/-1936.802  $\chi^2$ /NDF: 43.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2244.043+/-2038.860  $\chi^2$ /NDF: 16.0/14

Left In: 2244.043+/-2038.860  $\chi^2$ /NDF:16.0/14

# asym\_sam\_37\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5131.308+/-1.370  $\chi^2$ /NDF:1054036.8/15

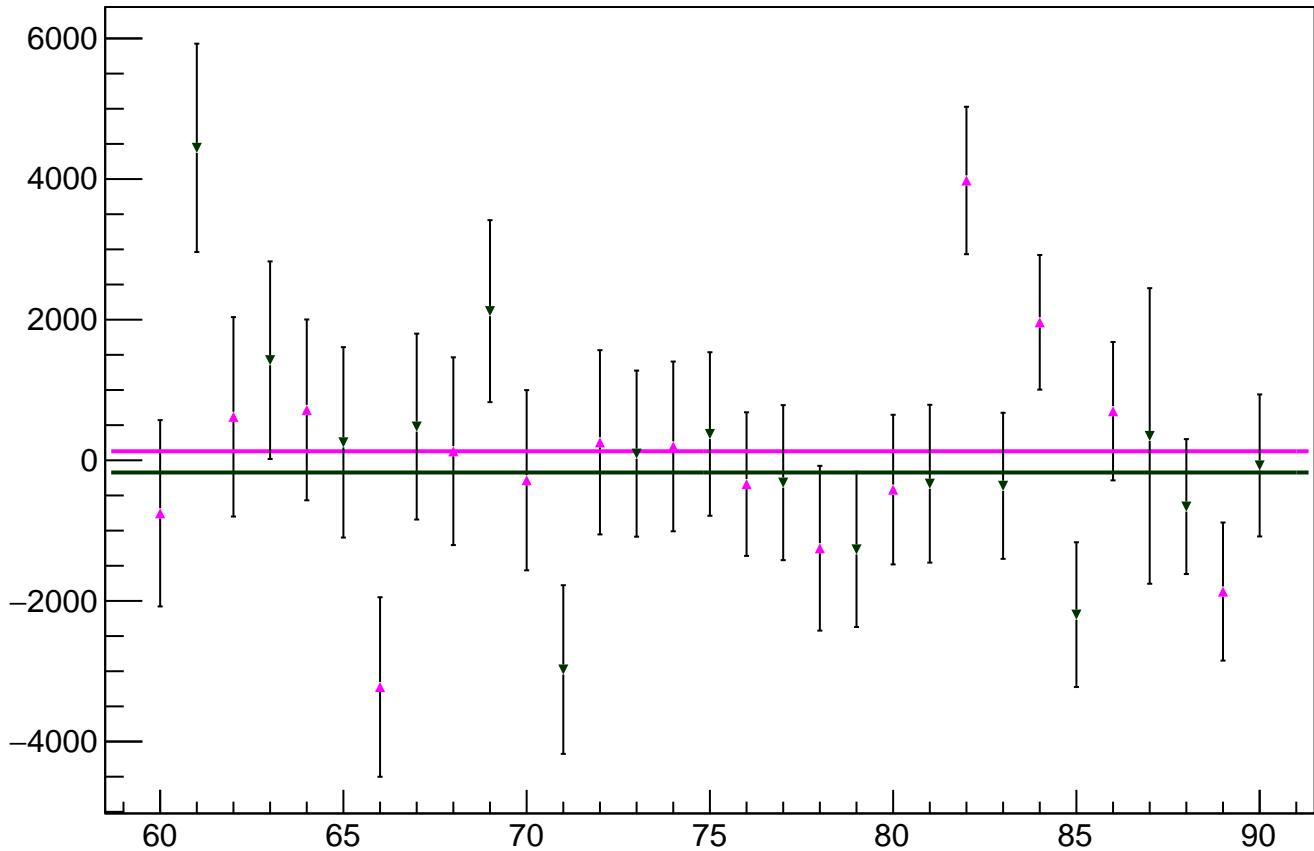
5131.308+/-1.370  $\chi^2$ /NDF: 1054036.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5425.917+/-1.442  $\chi^2$ /NDF: 1101076.2/14

Left In: 5425.917+/-1.442  $\chi^2$ /NDF:1101076.2/14

# reg\_asym\_sam\_48\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -173.428+/-295.801  $\chi^2$ /NDF:25.5/15

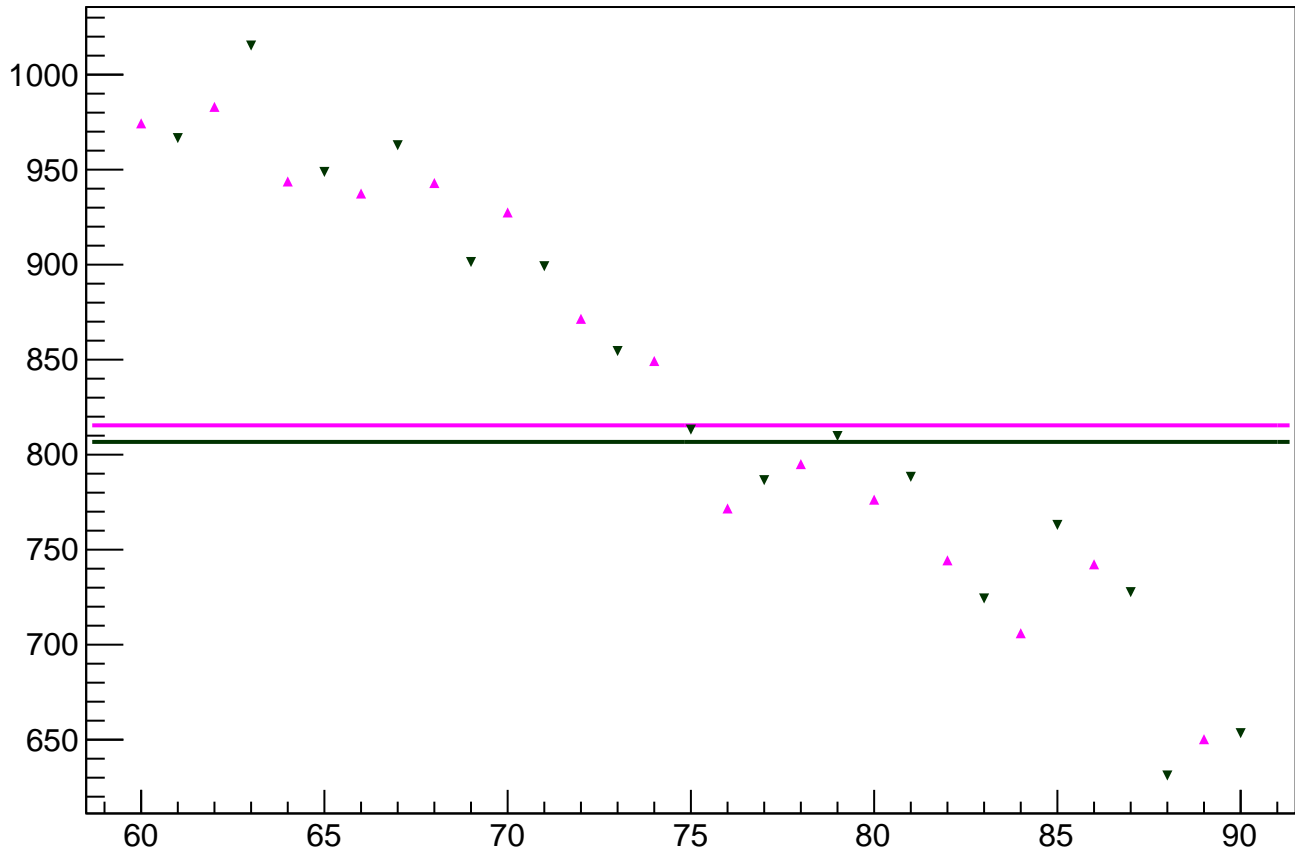
-173.428+/-295.801  $\chi^2$ /NDF: 25.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

128.682+/-296.666  $\chi^2$ /NDF: 31.3/14

Left In: 128.682+/-296.666  $\chi^2$ /NDF:31.3/14

# reg\_asym\_sam\_48\_dd\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 806.718+/-0.209  $\chi^2/\text{NDF}$ :276455.4/15

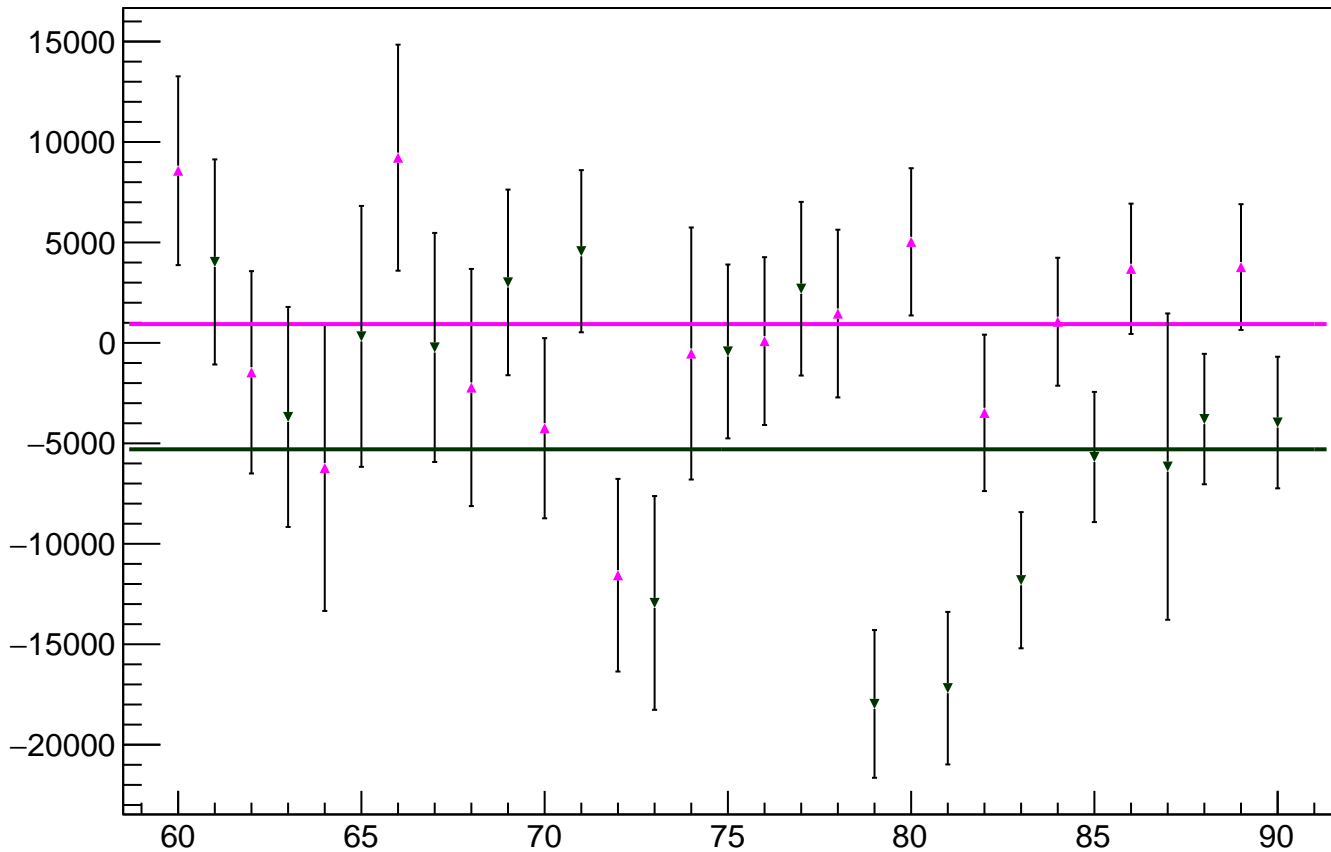
806.718+/-0.209  $\chi^2/\text{NDF}$ : 276455.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 815.429+/-0.210  $\chi^2/\text{NDF}$ :243535.7/14

815.429+/-0.210  $\chi^2/\text{NDF}$ : 243535.7/14

# asym\_sam\_48\_dd\_correction\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5296.272+/-1049.550  $\chi^2$ /NDF:46.7/15

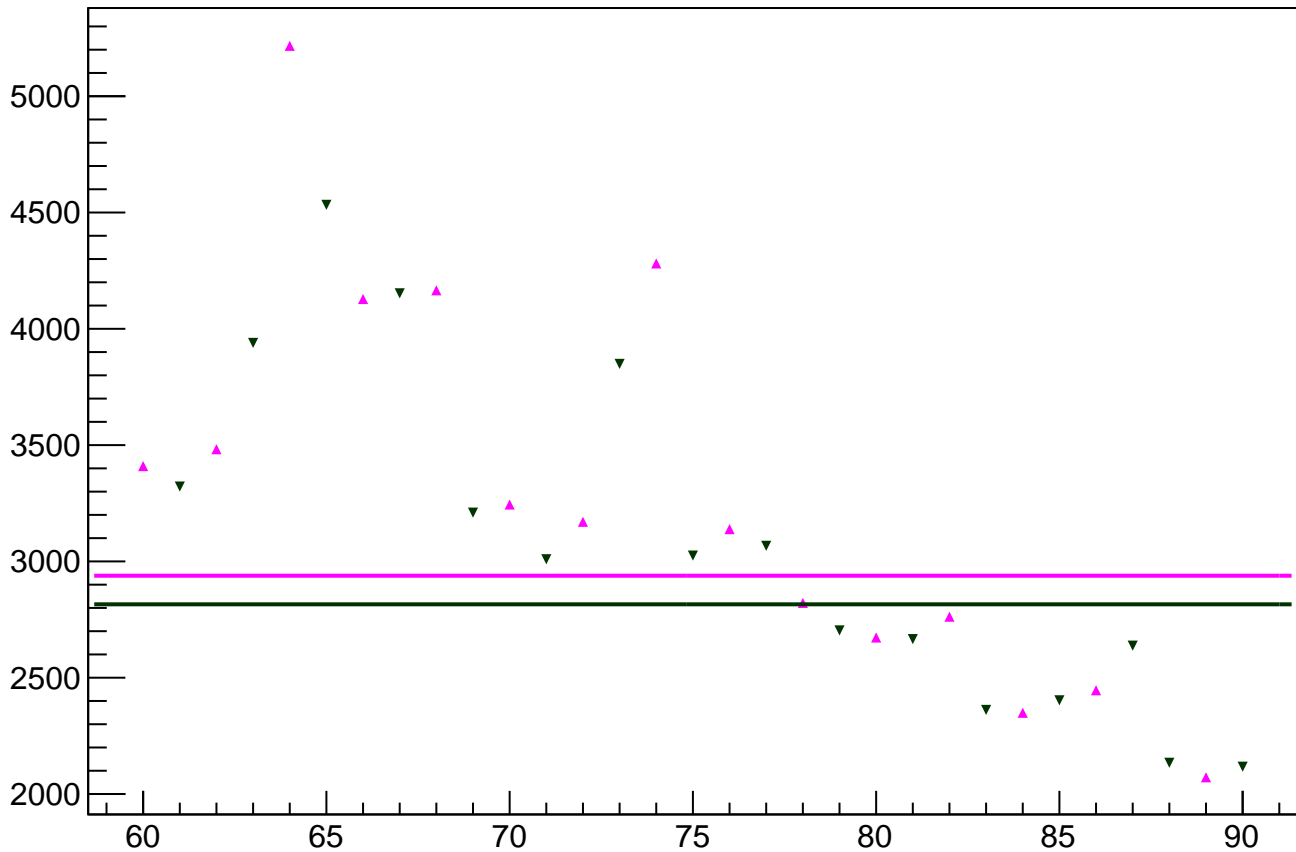
-5296.272+/-1049.550  $\chi^2$ /NDF: 46.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 936.324+/-1094.726  $\chi^2$ /NDF:18.7/14

936.324+/-1094.726  $\chi^2$ /NDF: 18.7/14

# asym\_sam\_48\_dd\_correction\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2815.528+/-0.742  $\chi^2$ /NDF: 713324.2/15

Left Out: 2815.528+/-0.742  $\chi^2$ /NDF:713324.2/15

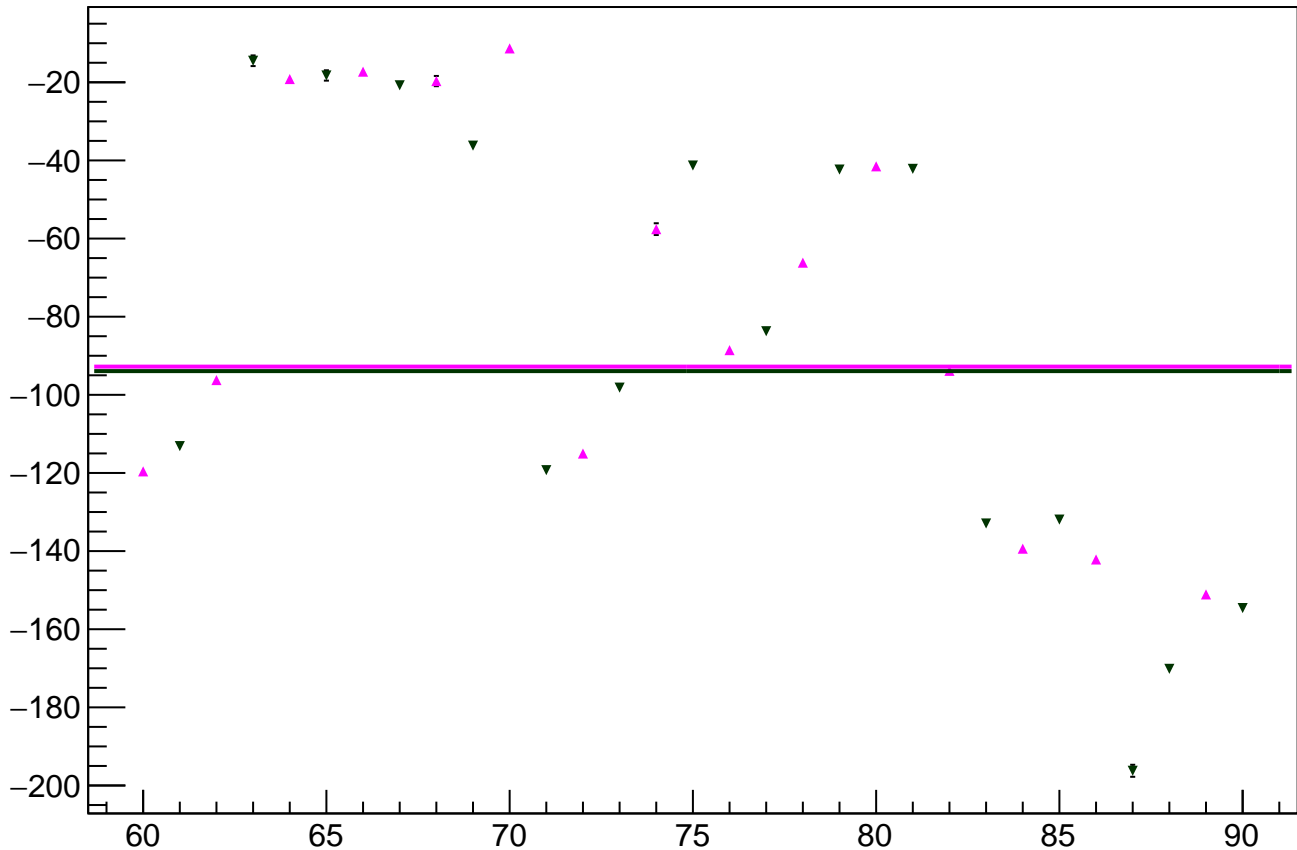
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2938.503+/-0.774  $\chi^2$ /NDF: 818687.2/14

Left In: 2938.503+/-0.774  $\chi^2$ /NDF:818687.2/14



# reg\_asym\_sam1\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -93.931+/-0.173  $\chi^2$ /NDF:76041.6/15

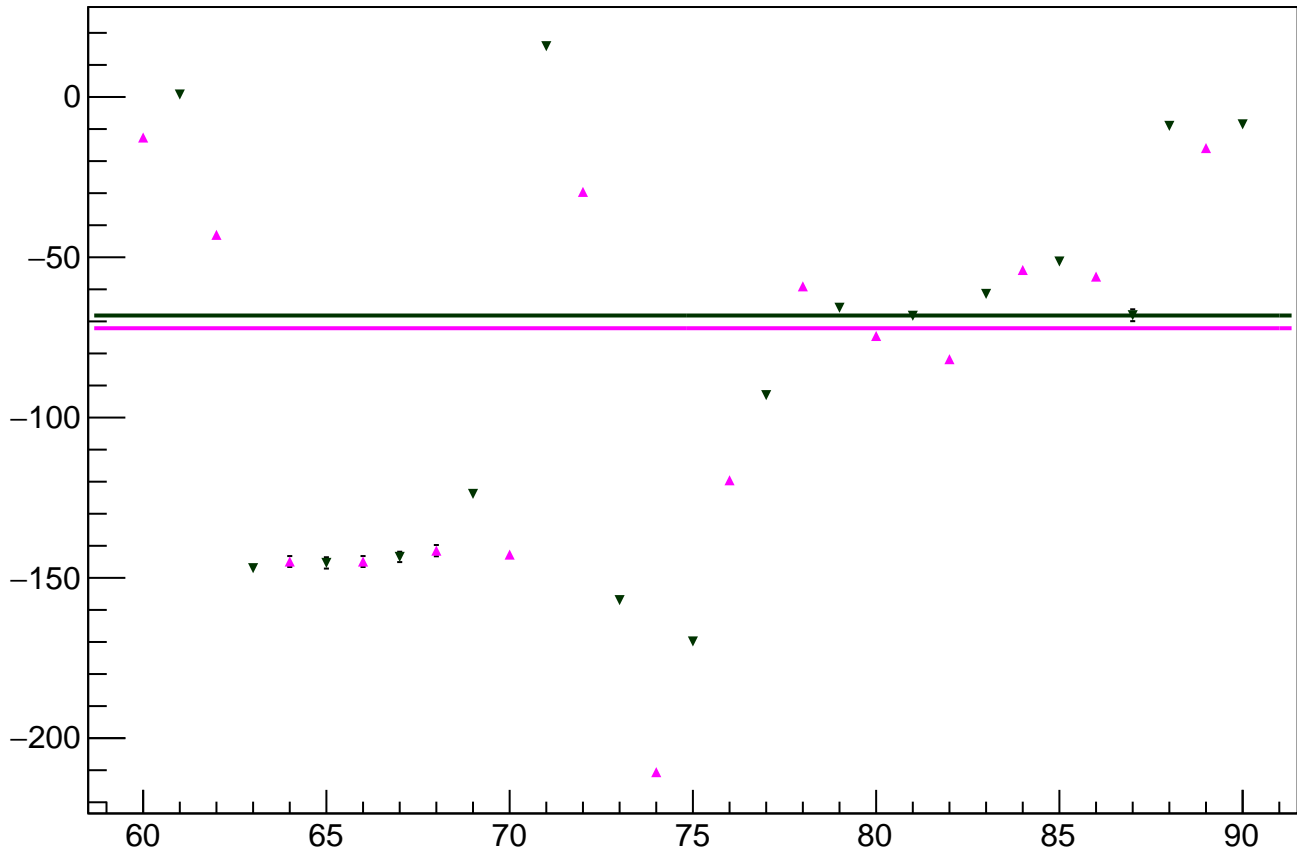
-93.931+/-0.173  $\chi^2$ /NDF: 76041.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -92.782+/-0.176  $\chi^2$ /NDF:53596.7/14

-92.782+/-0.176  $\chi^2$ /NDF: 53596.7/14

# reg\_asym\_sam1\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -68.163+/-0.210  $\chi^2/\text{NDF}$ : 63226.5/15

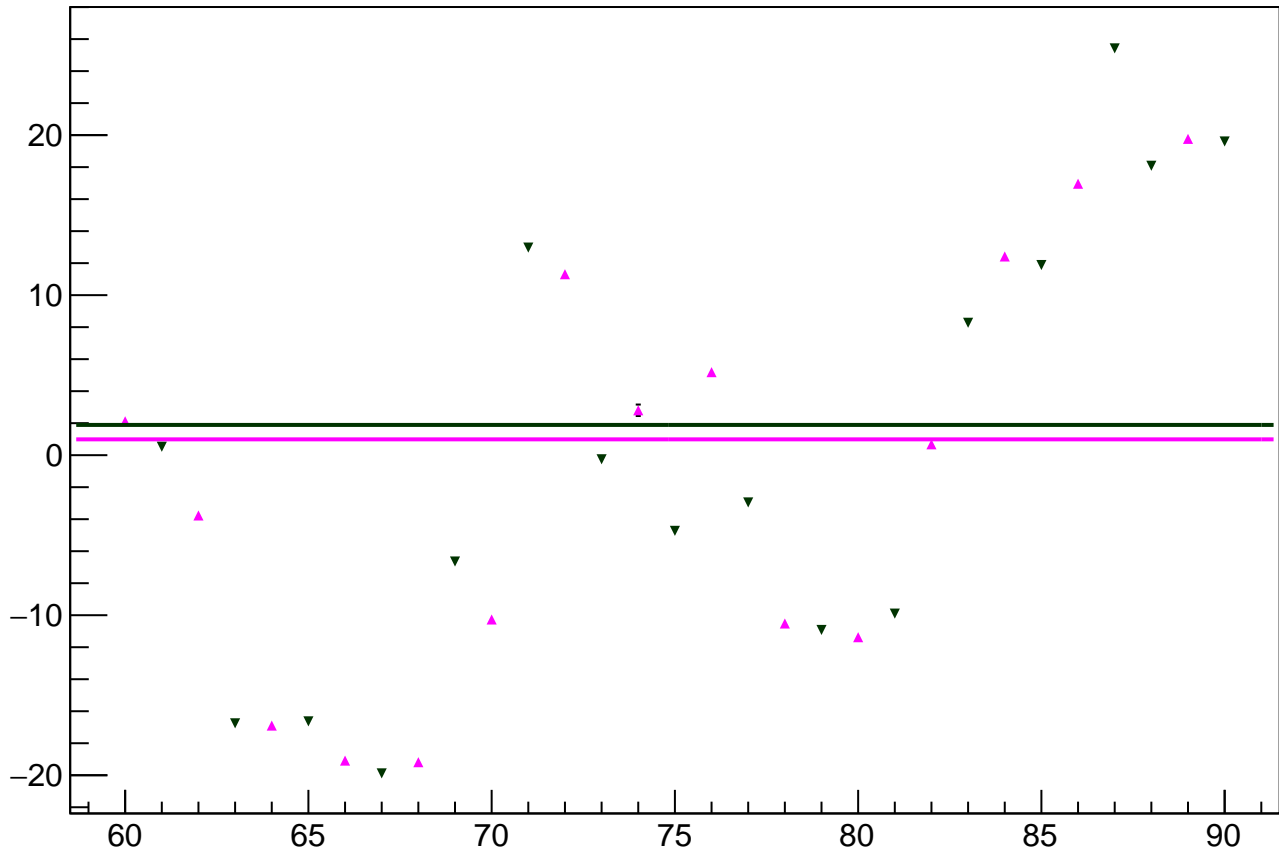
-68.163+/-0.210  $\chi^2/\text{NDF}$ : 63226.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -72.132+/-0.204  $\chi^2/\text{NDF}$ : 39031.9/14

-72.132+/-0.204  $\chi^2/\text{NDF}$ : 39031.9/14

# reg\_asym\_sam1\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.891+/-0.033  $\chi^2/\text{NDF}$ : 126064.3/15

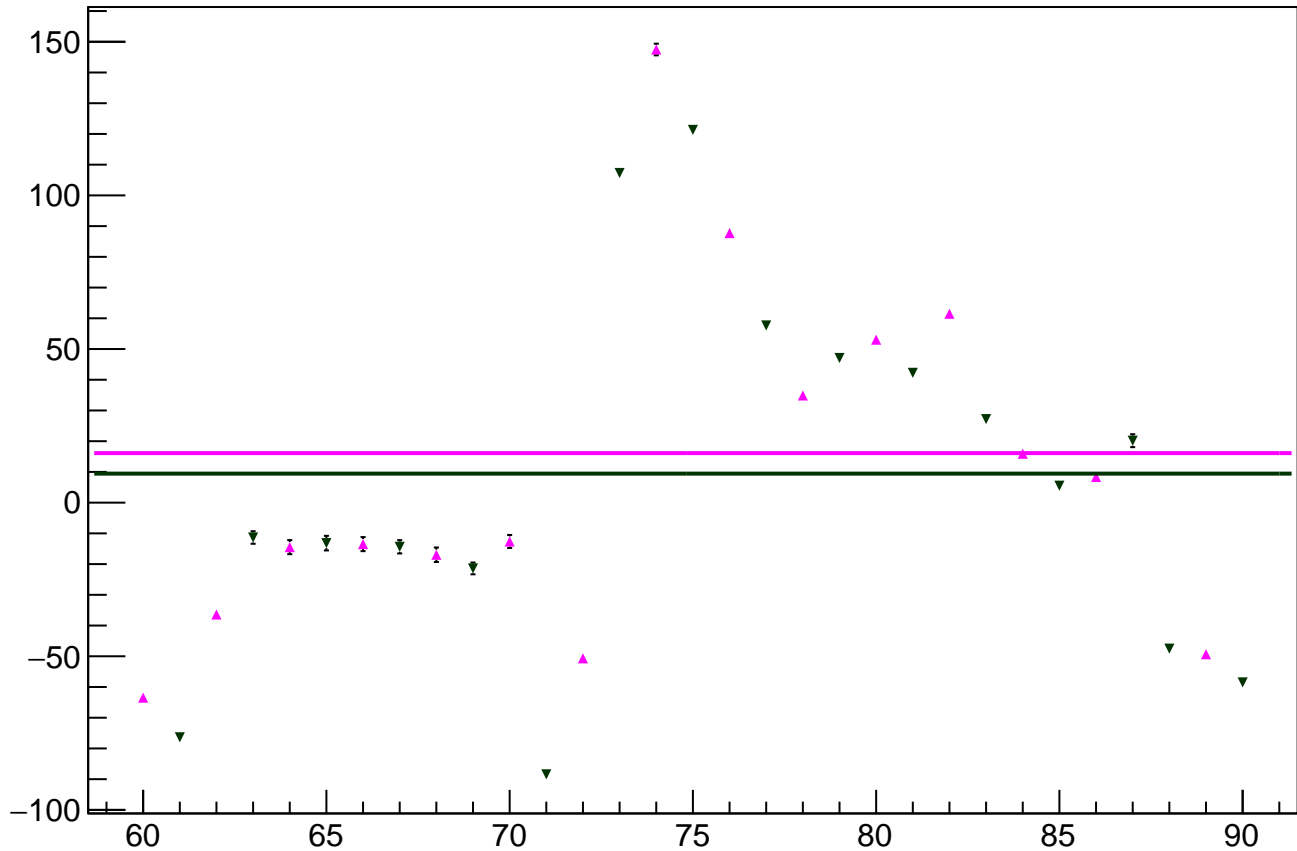
Left Out: 1.891+/-0.033  $\chi^2/\text{NDF}$ : 126064.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.989+/-0.032  $\chi^2/\text{NDF}$ : 118194.4/14

Left In: 0.989+/-0.032  $\chi^2/\text{NDF}$ : 118194.4/14

# reg\_asym\_sam1\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 9.447+/-0.245  $\chi^2/\text{NDF}$ :63685.6/15

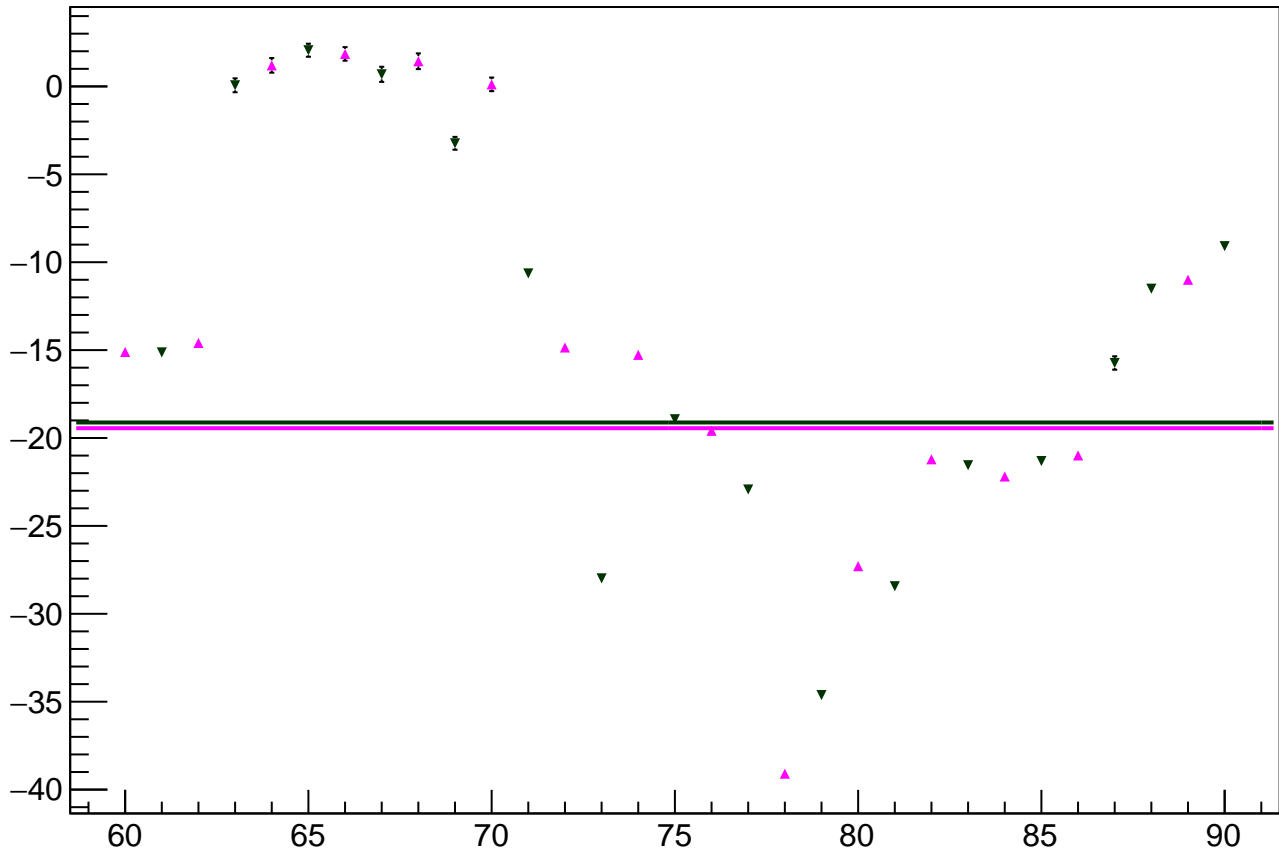
9.447+/-0.245  $\chi^2/\text{NDF}$ : 63685.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 16.124+/-0.240  $\chi^2/\text{NDF}$ :48716.8/14

16.124+/-0.240  $\chi^2/\text{NDF}$ : 48716.8/14

# reg\_asym\_sam1\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -19.117+/-0.042  $\chi^2/\text{NDF}$ : 38121.7/15

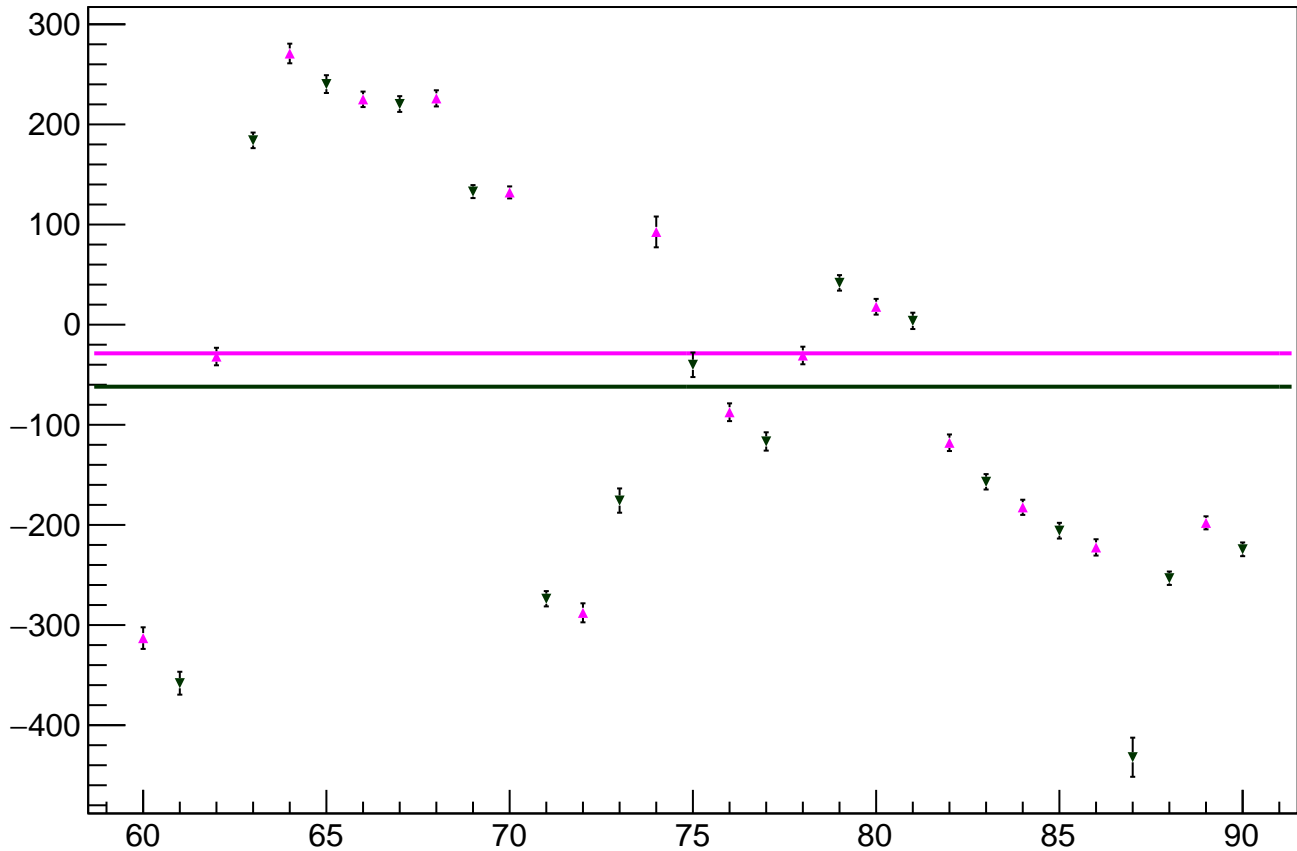
-19.117+/-0.042  $\chi^2/\text{NDF}$ : 38121.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.442+/-0.042  $\chi^2/\text{NDF}$ : 32038.4/14

-19.442+/-0.042  $\chi^2/\text{NDF}$ : 32038.4/14

# reg\_asym\_sam2\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -61.942+/-2.084  $\chi^2$ /NDF:8380.9/15

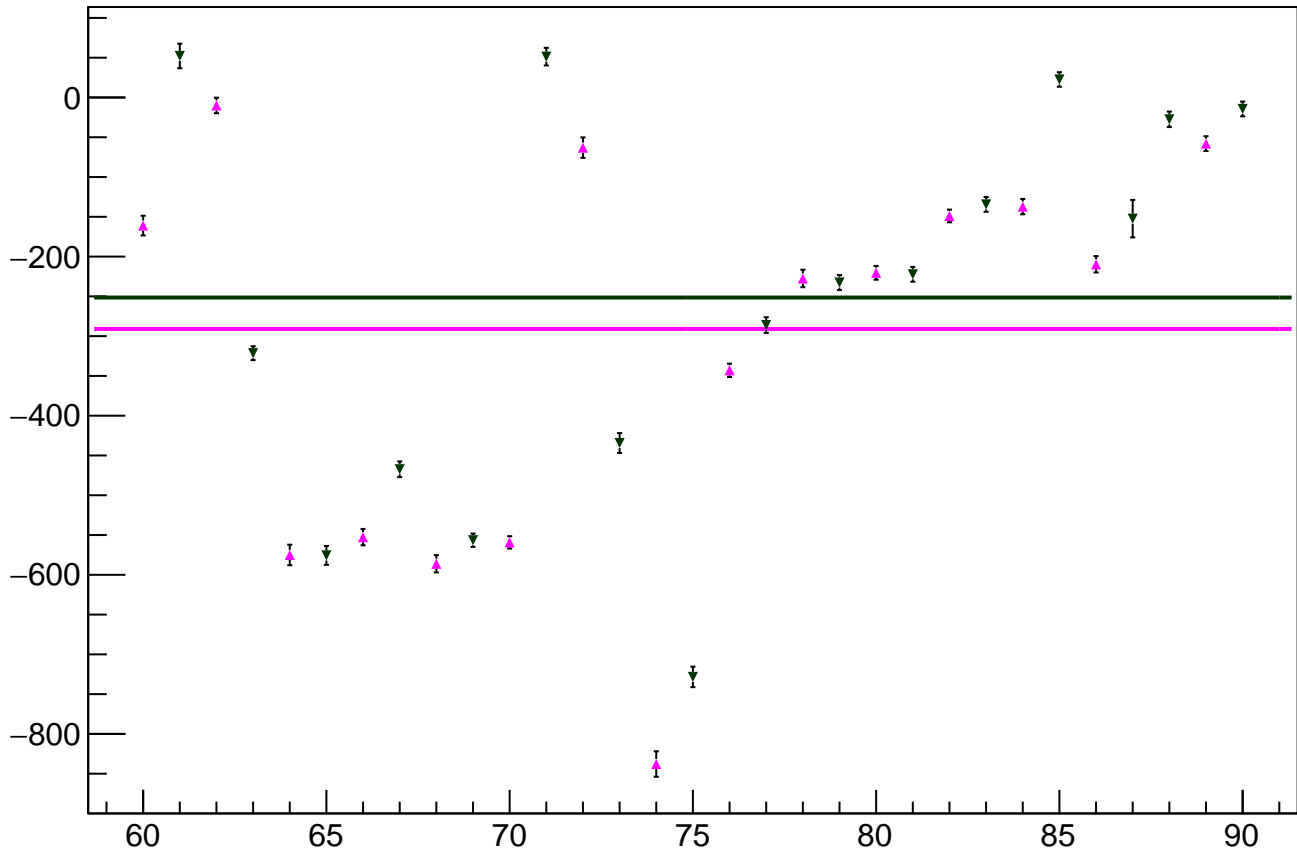
-61.942+/-2.084  $\chi^2$ /NDF: 8380.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -28.628+/-2.133  $\chi^2$ /NDF:7073.1/14

-28.628+/-2.133  $\chi^2$ /NDF: 7073.1/14

# reg\_asym\_sam2\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -251.472+/-2.581  $\chi^2$ /NDF: 7605.1/15

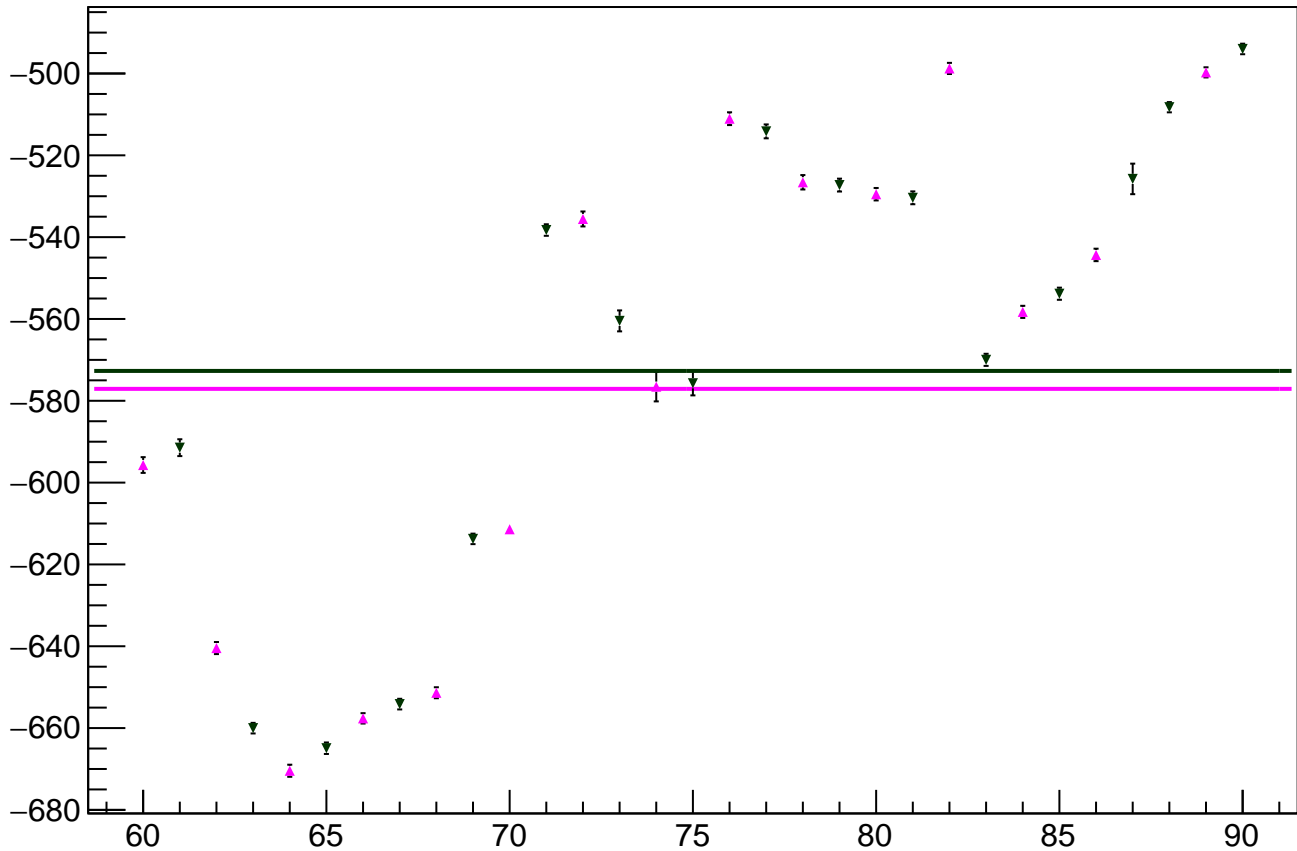
-251.472+/-2.581  $\chi^2$ /NDF: 7605.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -290.972+/-2.575  $\chi^2$ /NDF: 6881.8/14

-290.972+/-2.575  $\chi^2$ /NDF: 6881.8/14

# reg\_asym\_sam2\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -572.700+/-0.387  $\chi^2$ /NDF:23901.6/15

-572.700+/-0.387  $\chi^2$ /NDF: 23901.6/15

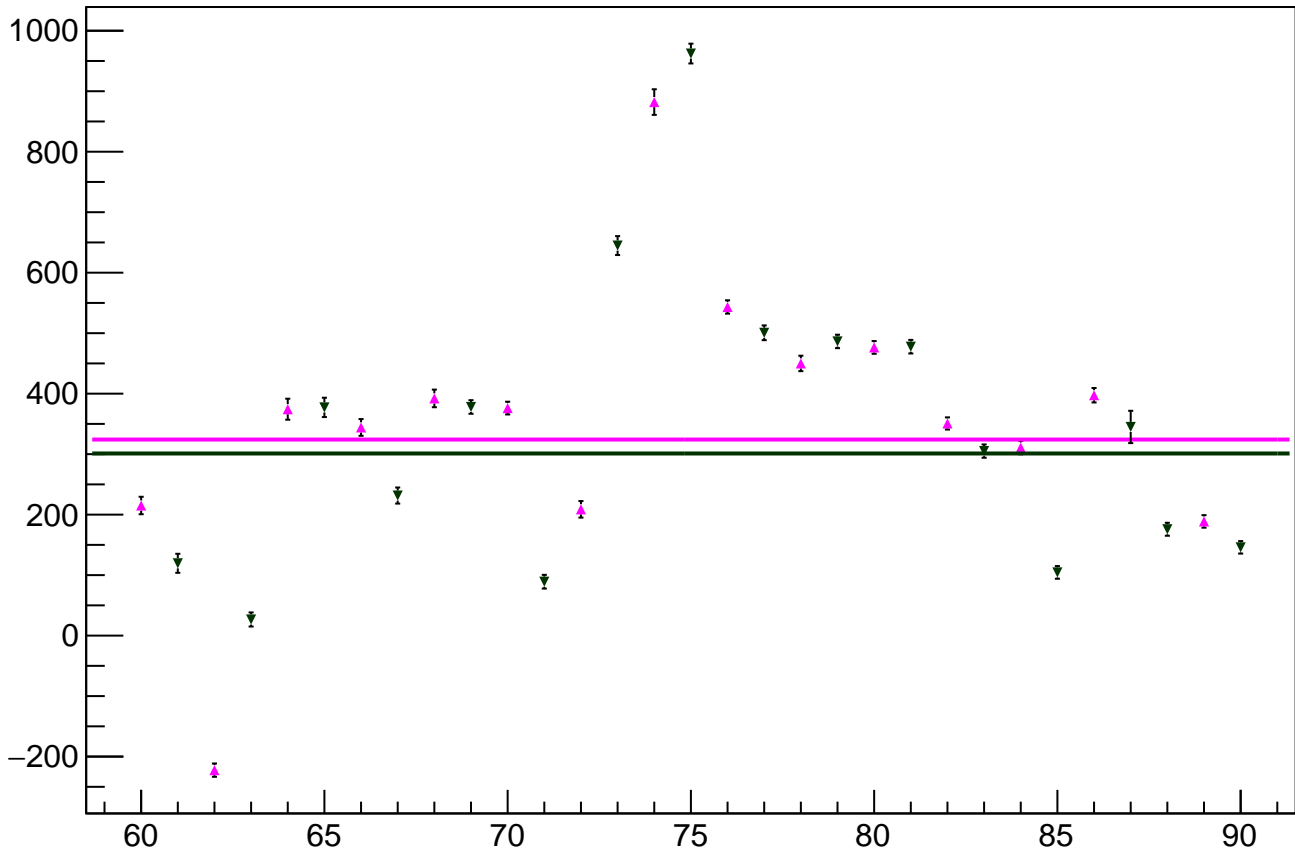
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -577.084+/-0.387  $\chi^2$ /NDF:25742.2/14

-577.084+/-0.387  $\chi^2$ /NDF: 25742.2/14



# reg\_asym\_sam2\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

301.095+/-3.101  $\chi^2$ /NDF: 4758.8/15

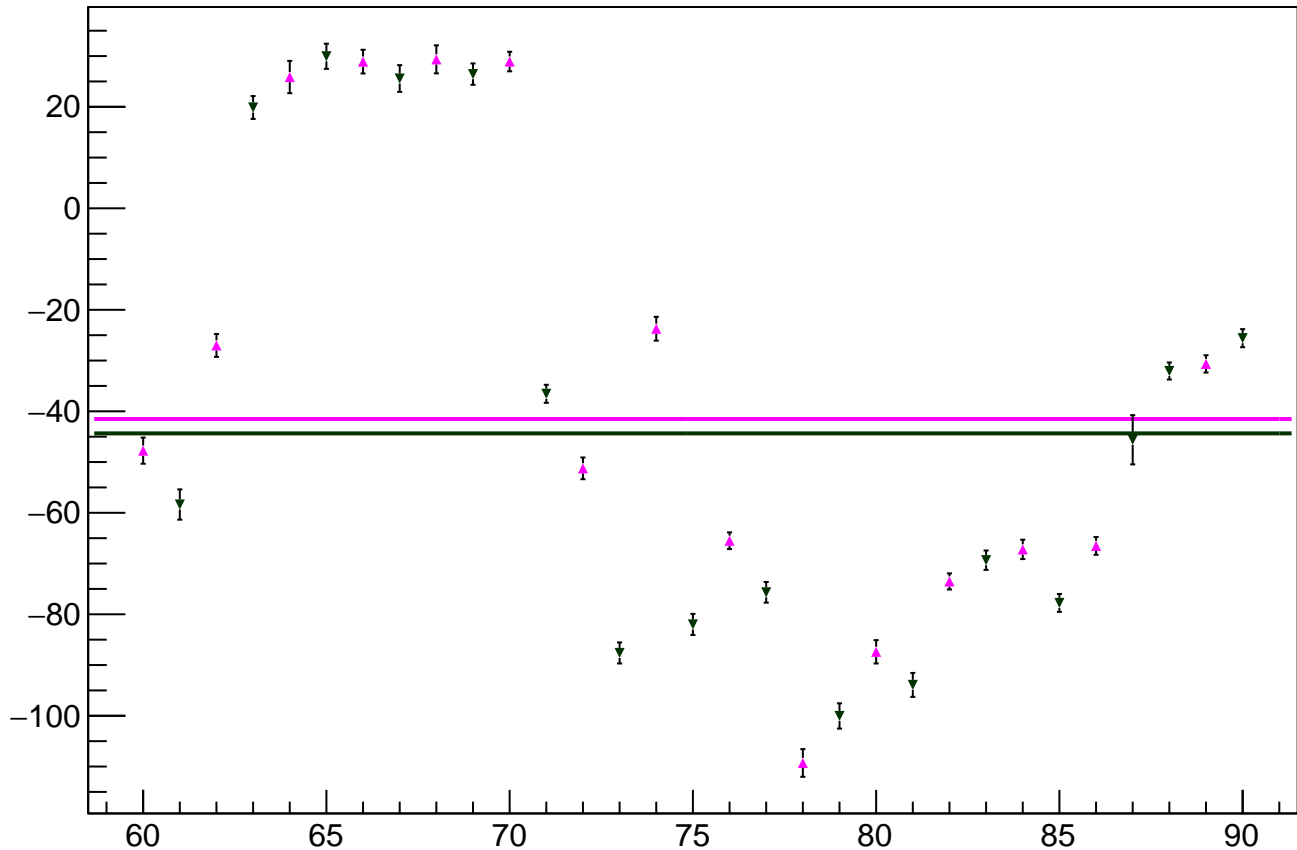
Left Out: 301.095+/-3.101  $\chi^2$ /NDF:4758.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

324.136+/-3.155  $\chi^2$ /NDF: 4265.9/14

Left In: 324.136+/-3.155  $\chi^2$ /NDF:4265.9/14

# reg\_asym\_sam2\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -44.351+/-0.534  $\chi^2/\text{NDF}$ : 6216.0/15

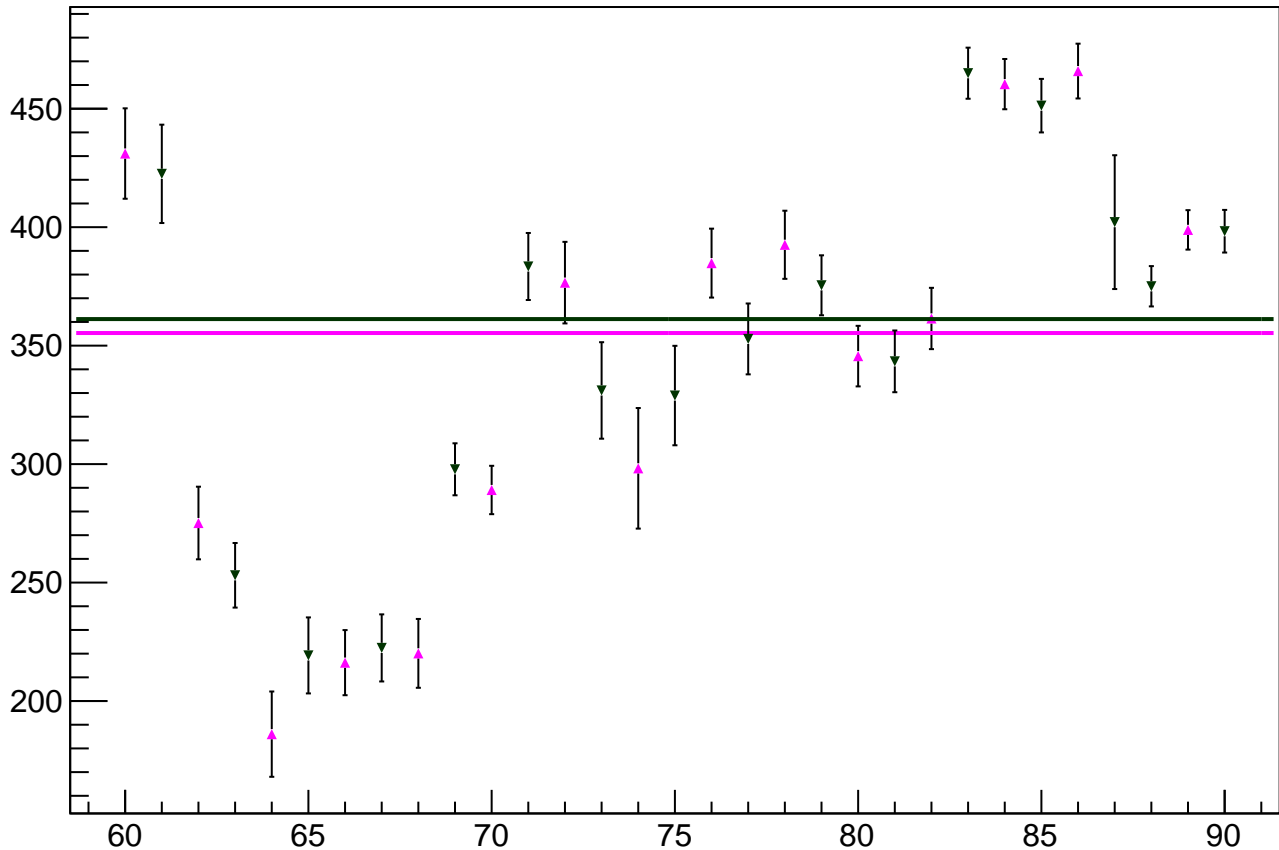
-44.351+/-0.534  $\chi^2/\text{NDF}$ : 6216.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -41.520+/-0.537  $\chi^2/\text{NDF}$ : 5543.5/14

-41.520+/-0.537  $\chi^2/\text{NDF}$ : 5543.5/14

# reg\_asym\_sam3\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 361.212+/-3.244  $\chi^2/\text{NDF}$ :467.9/15

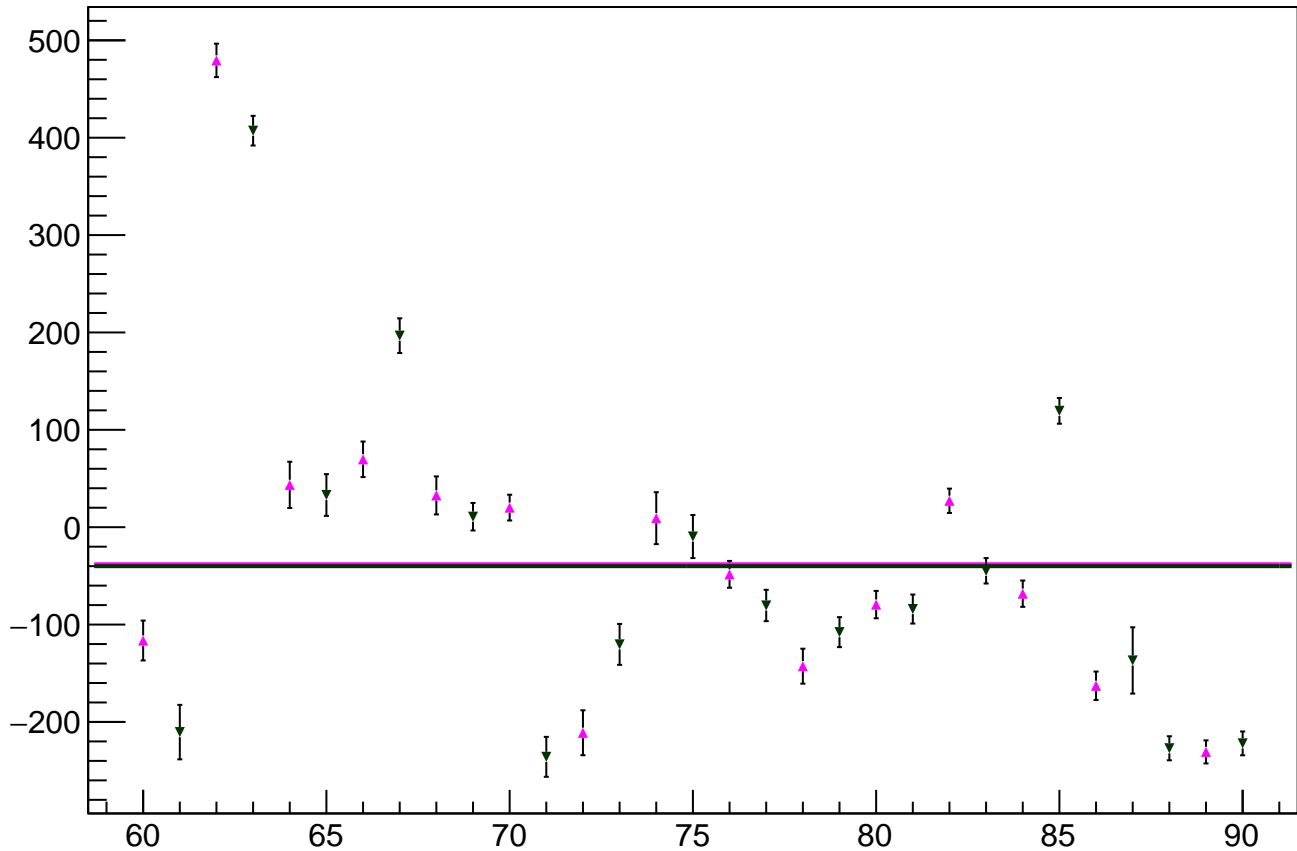
361.212+/-3.244  $\chi^2/\text{NDF}$ : 467.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 355.325+/-3.389  $\chi^2/\text{NDF}$ :597.8/14

355.325+/-3.389  $\chi^2/\text{NDF}$ : 597.8/14

# reg\_asym\_sam3\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -40.033+/-4.054  $\chi^2$ /NDF:1845.8/15

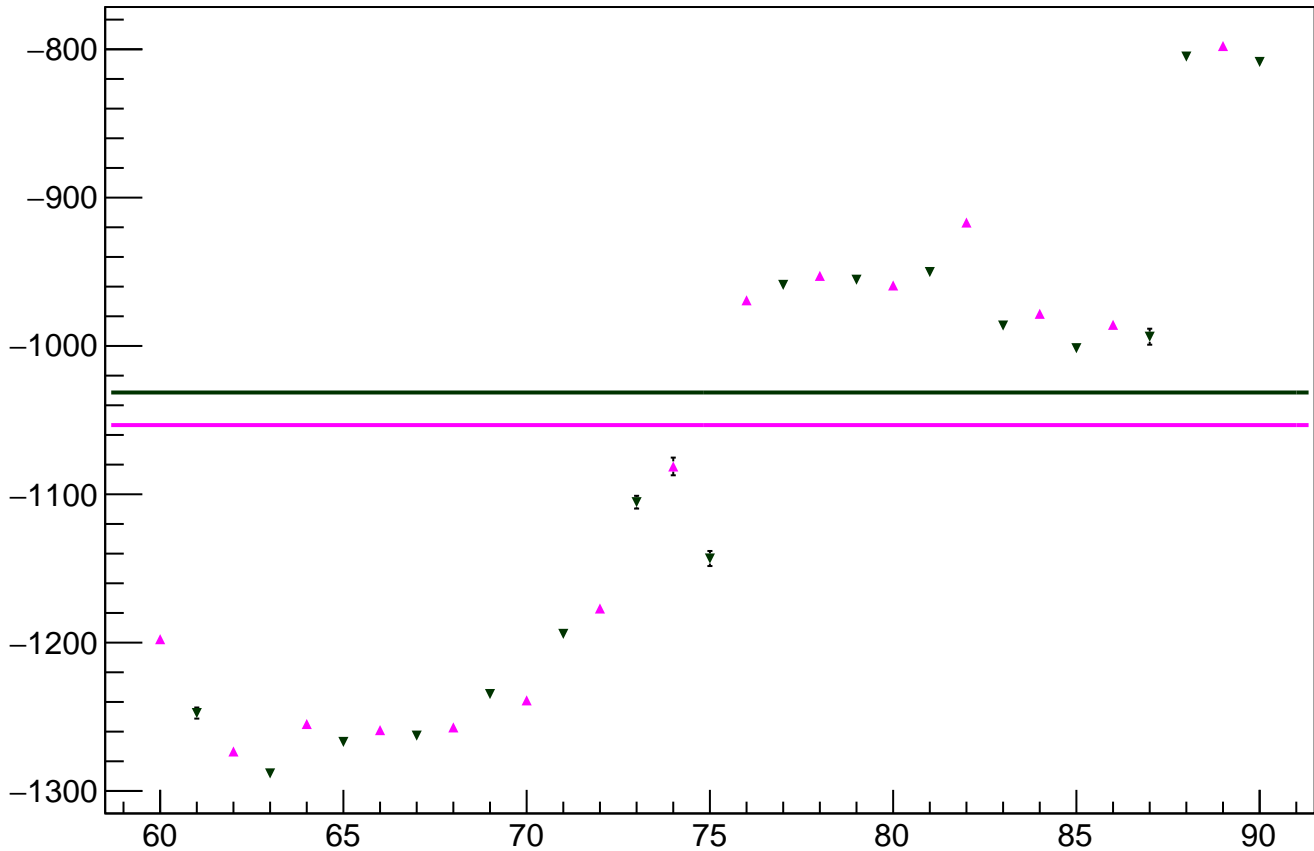
-40.033+/-4.054  $\chi^2$ /NDF: 1845.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -38.081+/-4.106  $\chi^2$ /NDF:1472.4/14

-38.081+/-4.106  $\chi^2$ /NDF: 1472.4/14

# reg\_asym\_sam3\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1031.376+/-0.606  $\chi^2$ /NDF: 88693.0/15

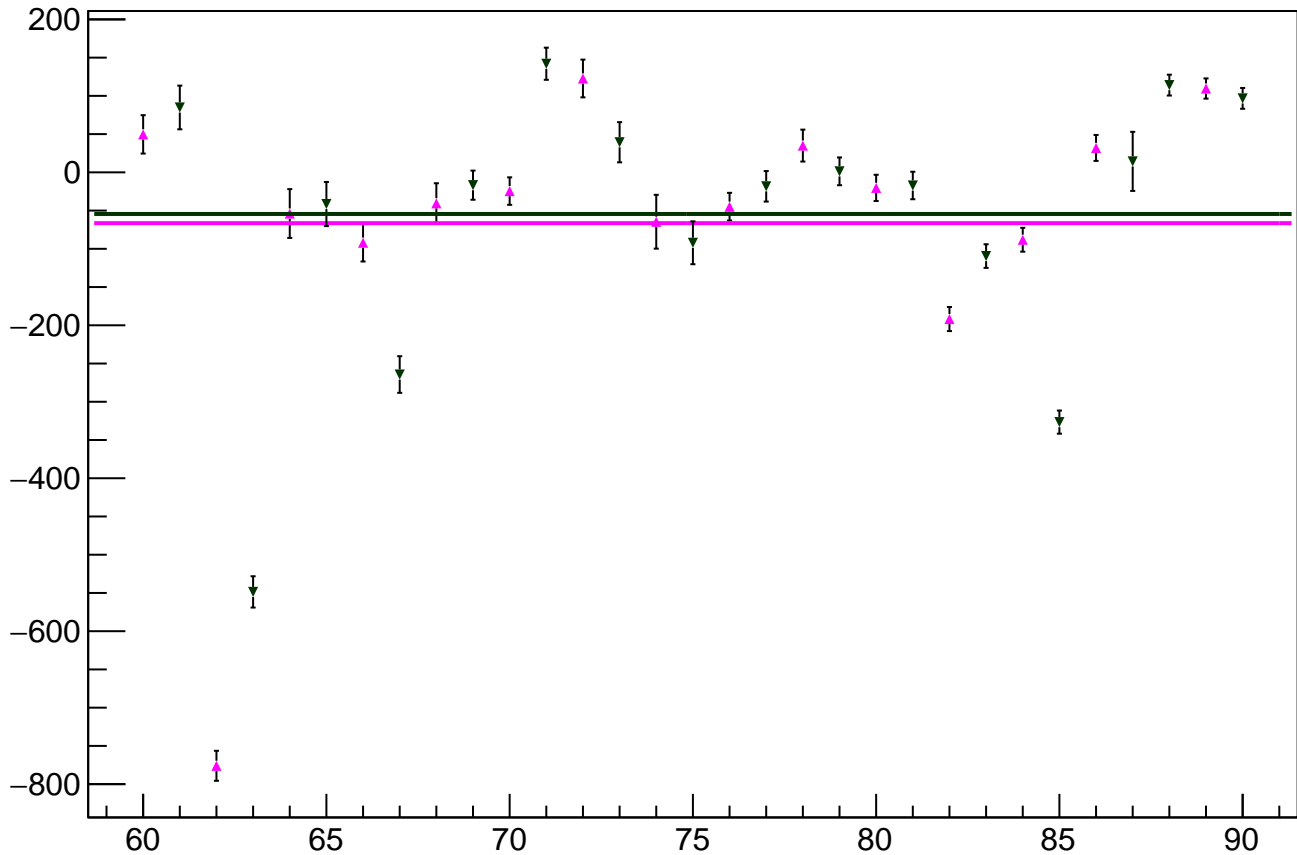
Left Out: -1031.376+/-0.606  $\chi^2$ /NDF:88693.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1053.350+/-0.620  $\chi^2$ /NDF: 75898.3/14

Left In: -1053.350+/-0.620  $\chi^2$ /NDF:75898.3/14

# reg\_asym\_sam3\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -54.423+/-4.825  $\chi^2$ /NDF:1423.1/15

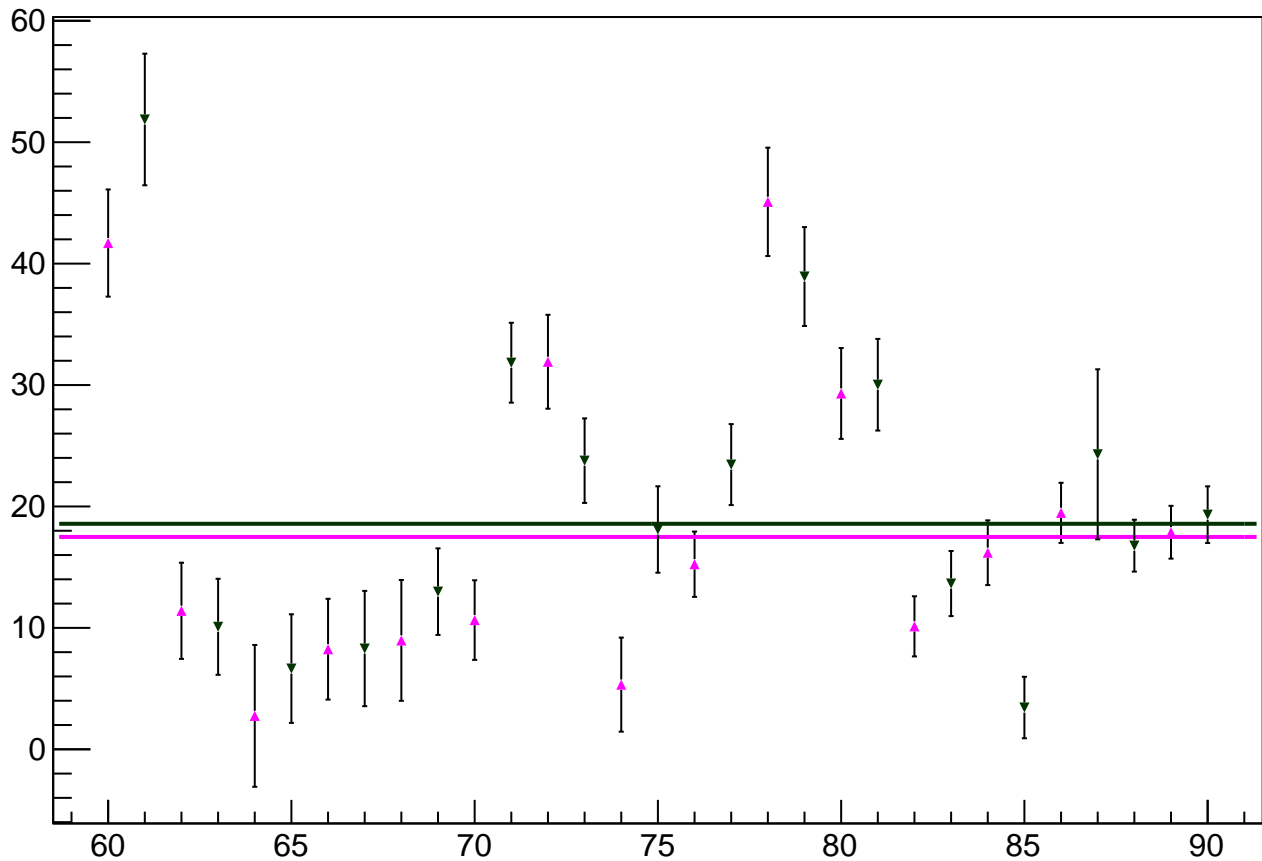
-54.423+/-4.825  $\chi^2$ /NDF: 1423.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -66.441+/-5.007  $\chi^2$ /NDF:1704.7/14

-66.441+/-5.007  $\chi^2$ /NDF: 1704.7/14

# reg\_asym\_sam3\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 18.573+/-0.827  $\chi^2$ /NDF:152.1/15

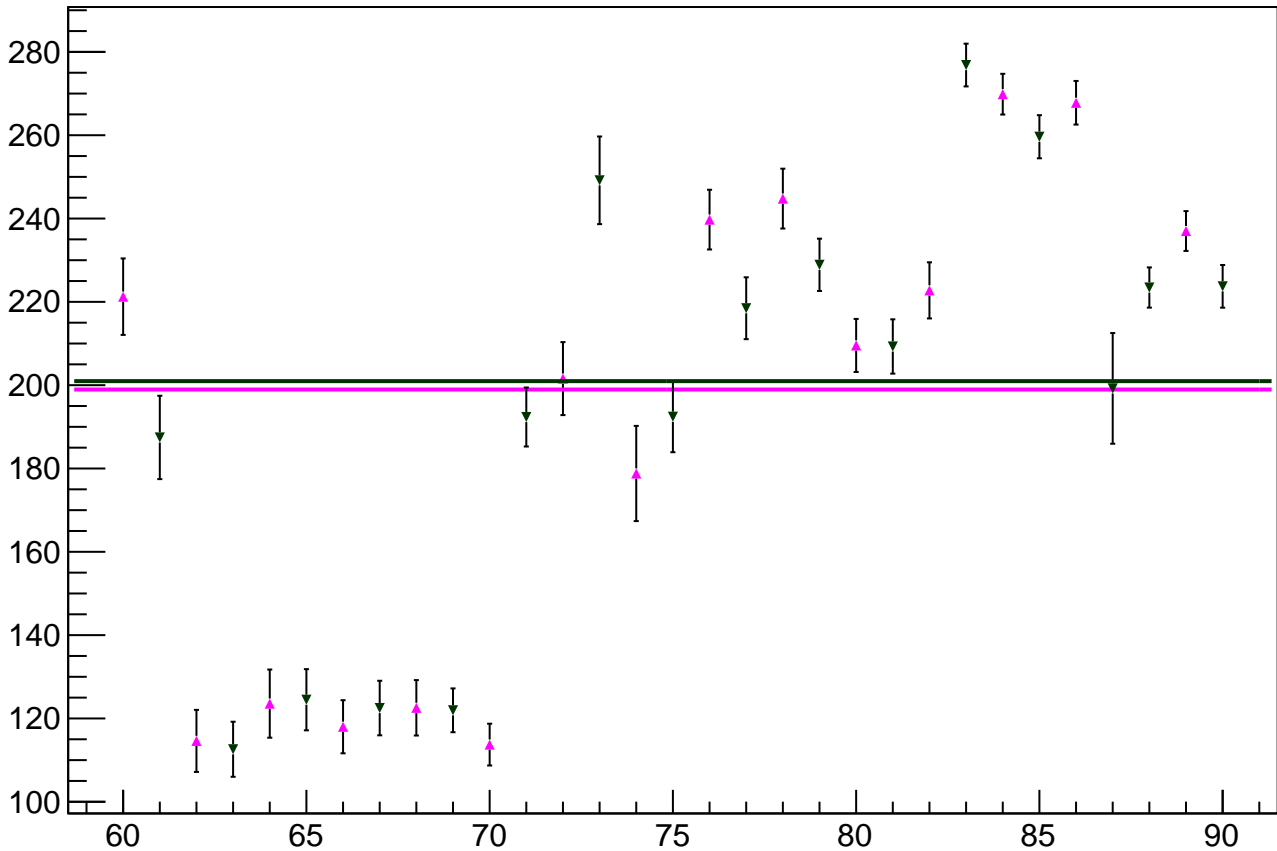
18.573+/-0.827  $\chi^2$ /NDF: 152.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 17.490+/-0.843  $\chi^2$ /NDF:133.5/14

17.490+/-0.843  $\chi^2$ /NDF: 133.5/14

# reg\_asym\_sam4\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 200.970+/-1.616  $\chi^2$ /NDF:1097.6/15

200.970+/-1.616  $\chi^2$ /NDF: 1097.6/15

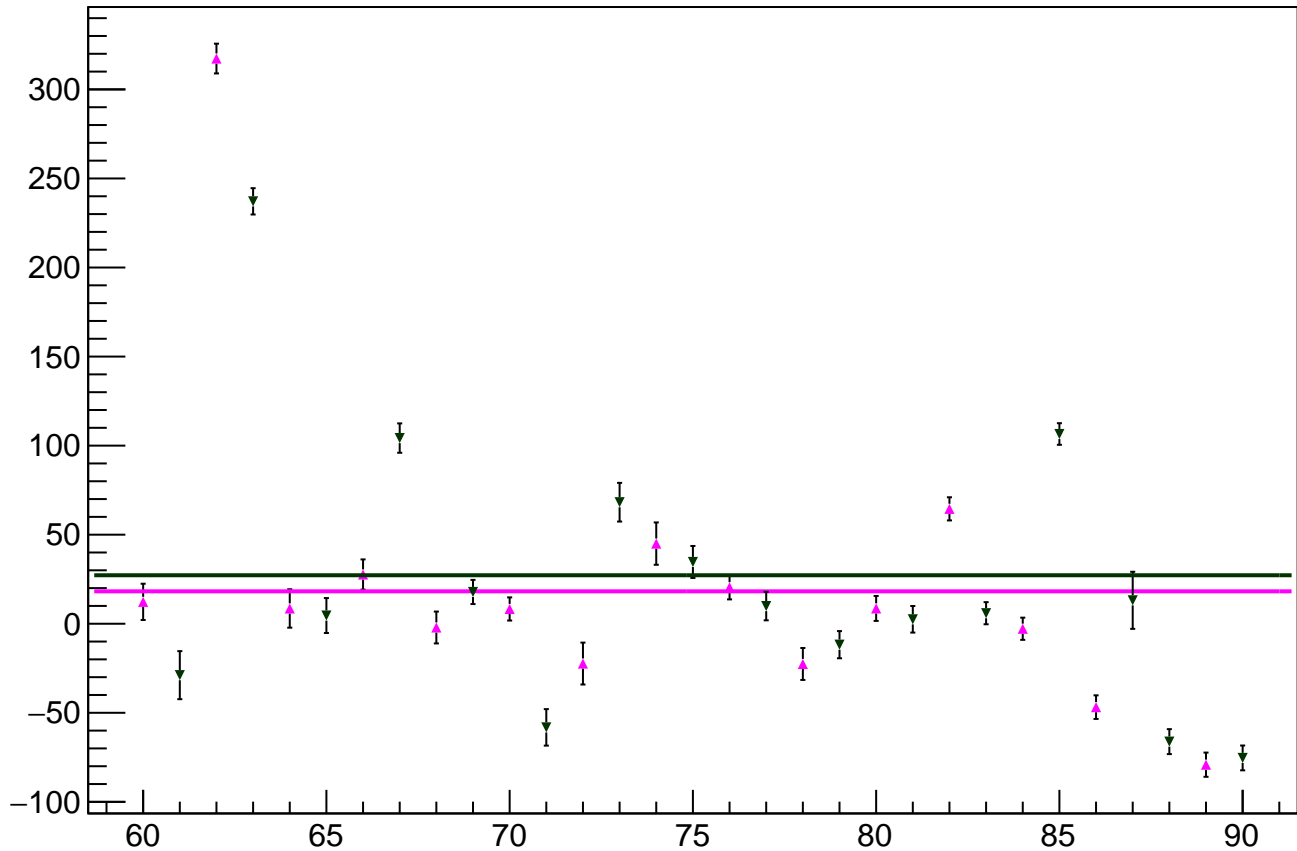
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 198.955+/-1.666  $\chi^2$ /NDF:1338.9/14

198.955+/-1.666  $\chi^2$ /NDF: 1338.9/14



# reg\_asym\_sam4\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 27.221+/-2.001  $\chi^2$ /NDF:1623.0/15

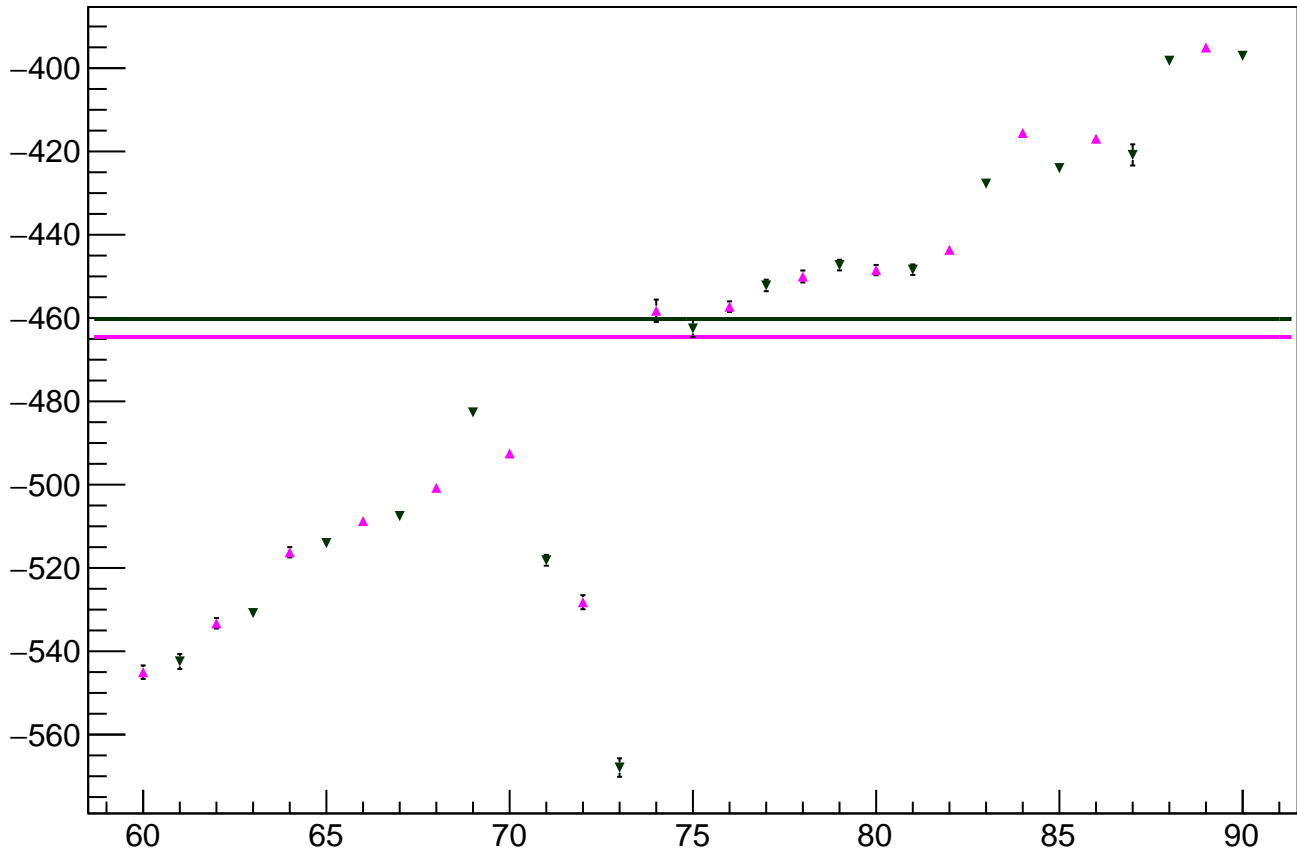
27.221+/-2.001  $\chi^2$ /NDF: 1623.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

18.199+/-2.019  $\chi^2$ /NDF: 1695.0/14

Left In: 18.199+/-2.019  $\chi^2$ /NDF:1695.0/14

# reg\_asym\_sam4\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-460.230+/-0.302  $\chi^2$ /NDF: 26967.2/15

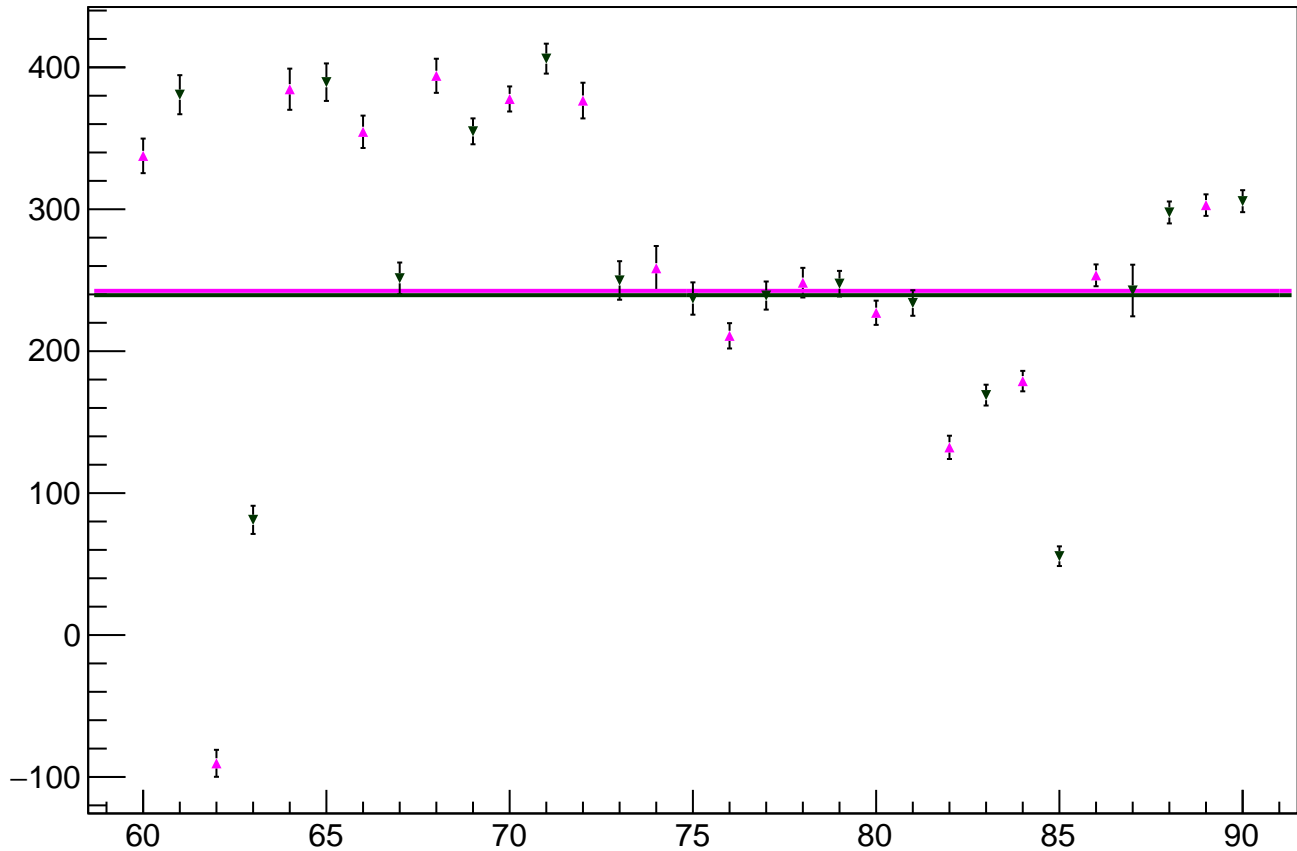
Left Out: -460.230+/-0.302  $\chi^2$ /NDF:26967.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-464.549+/-0.304  $\chi^2$ /NDF: 23807.0/14

Left In: -464.549+/-0.304  $\chi^2$ /NDF:23807.0/14

# reg\_asym\_sam4\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 239.468+/-2.396  $\chi^2$ /NDF:1828.0/15

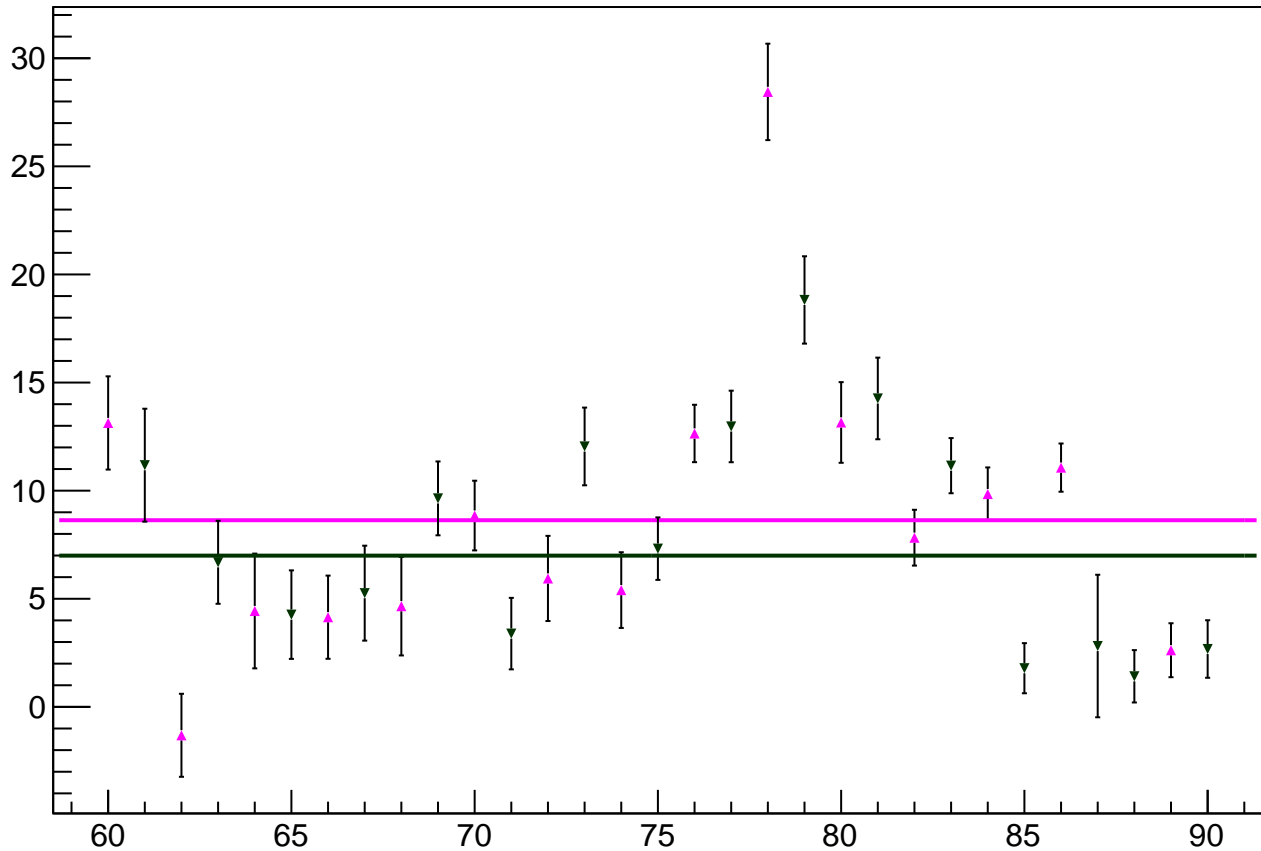
239.468+/-2.396  $\chi^2$ /NDF: 1828.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

242.528+/-2.467  $\chi^2$ /NDF: 2328.5/14

Left In: 242.528+/-2.467  $\chi^2$ /NDF:2328.5/14

# reg\_asym\_sam4\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 6.995+/-0.410  $\chi^2$ /NDF:146.5/15

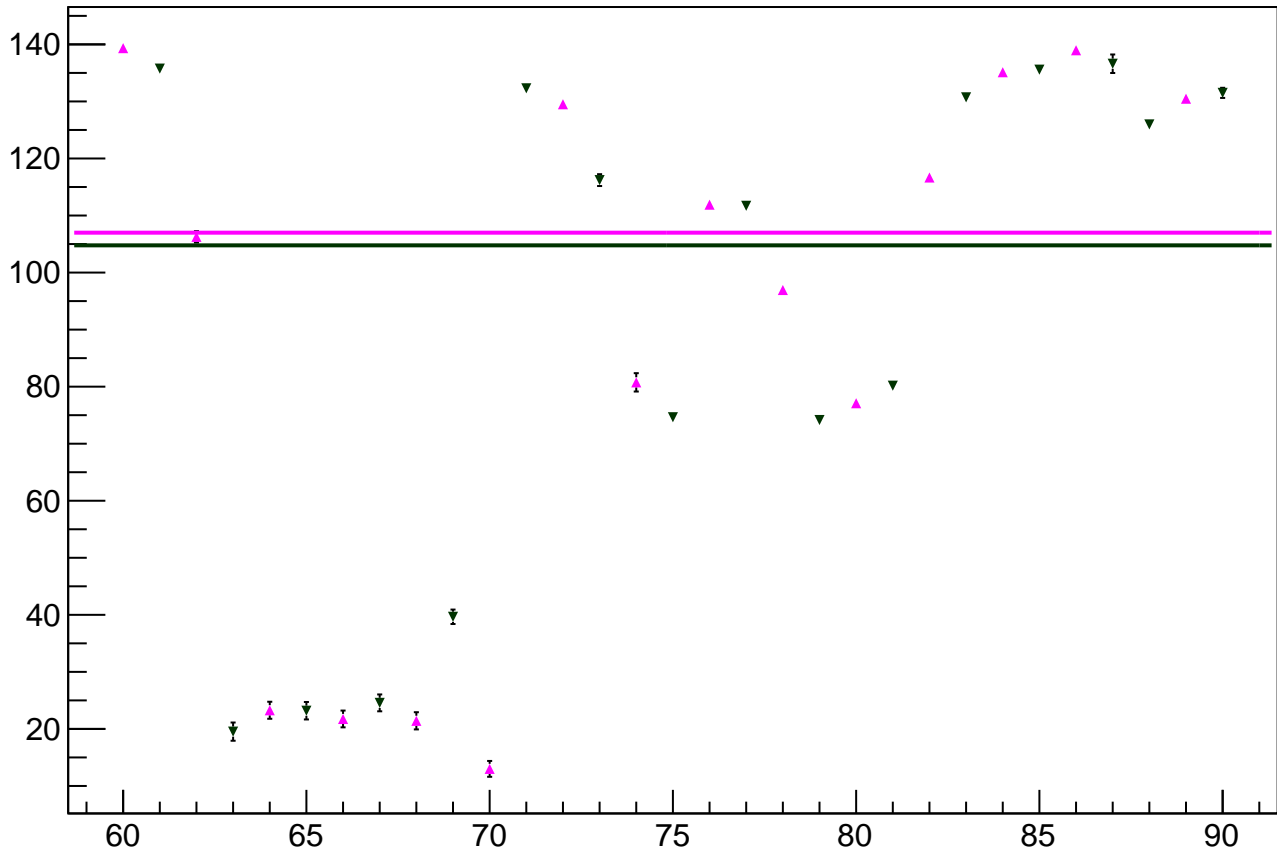
6.995+/-0.410  $\chi^2$ /NDF: 146.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 8.633+/-0.414  $\chi^2$ /NDF:170.8/14

8.633+/-0.414  $\chi^2$ /NDF: 170.8/14

# reg\_asym\_sam5\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 104.772+/-0.212  $\chi^2/\text{NDF}$ :25170.4/15

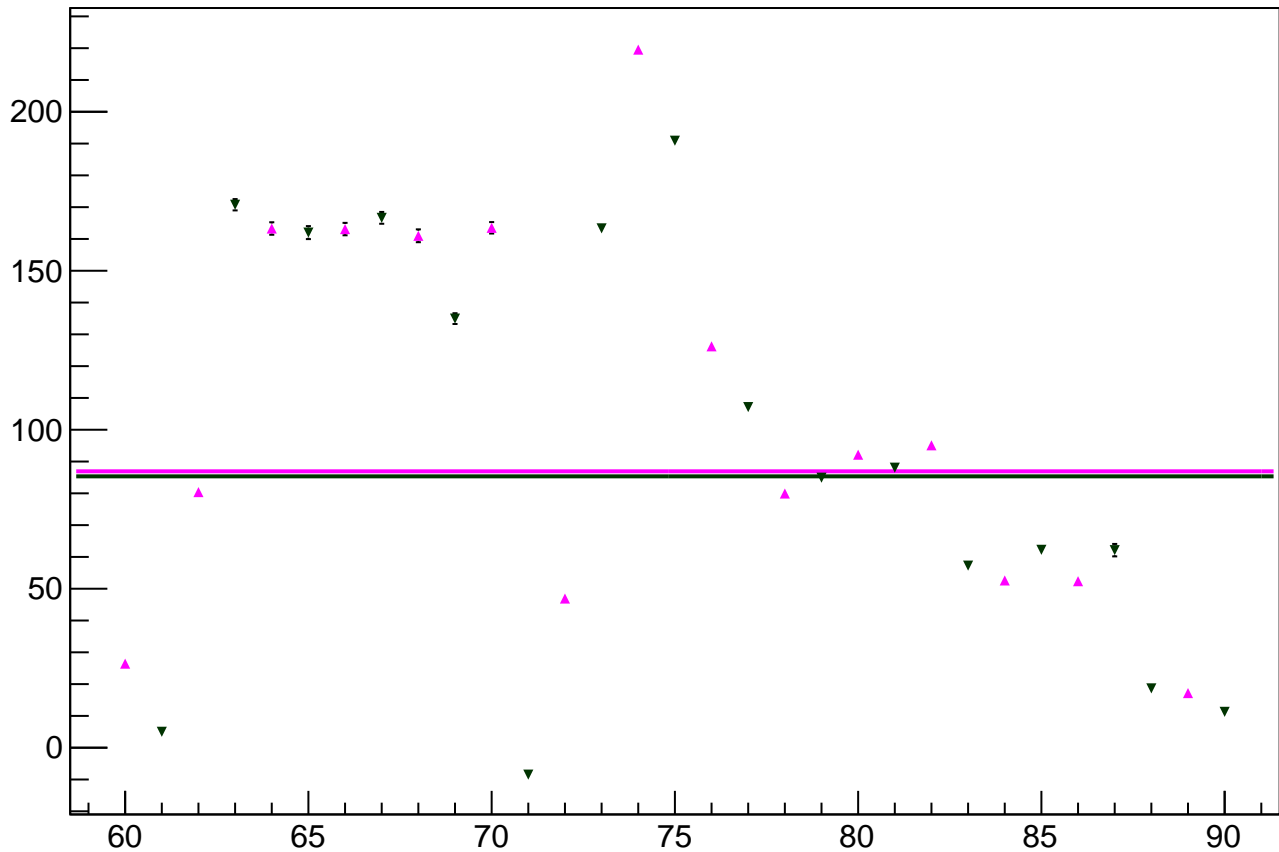
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 106.994+/-0.222  $\chi^2/\text{NDF}$ :24386.7/14

104.772+/-0.212  $\chi^2/\text{NDF}$ : 25170.4/15

106.994+/-0.222  $\chi^2/\text{NDF}$ : 24386.7/14

# reg\_asym\_sam5\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 85.341+/-0.257  $\chi^2/\text{NDF}$ : 52324.0/15

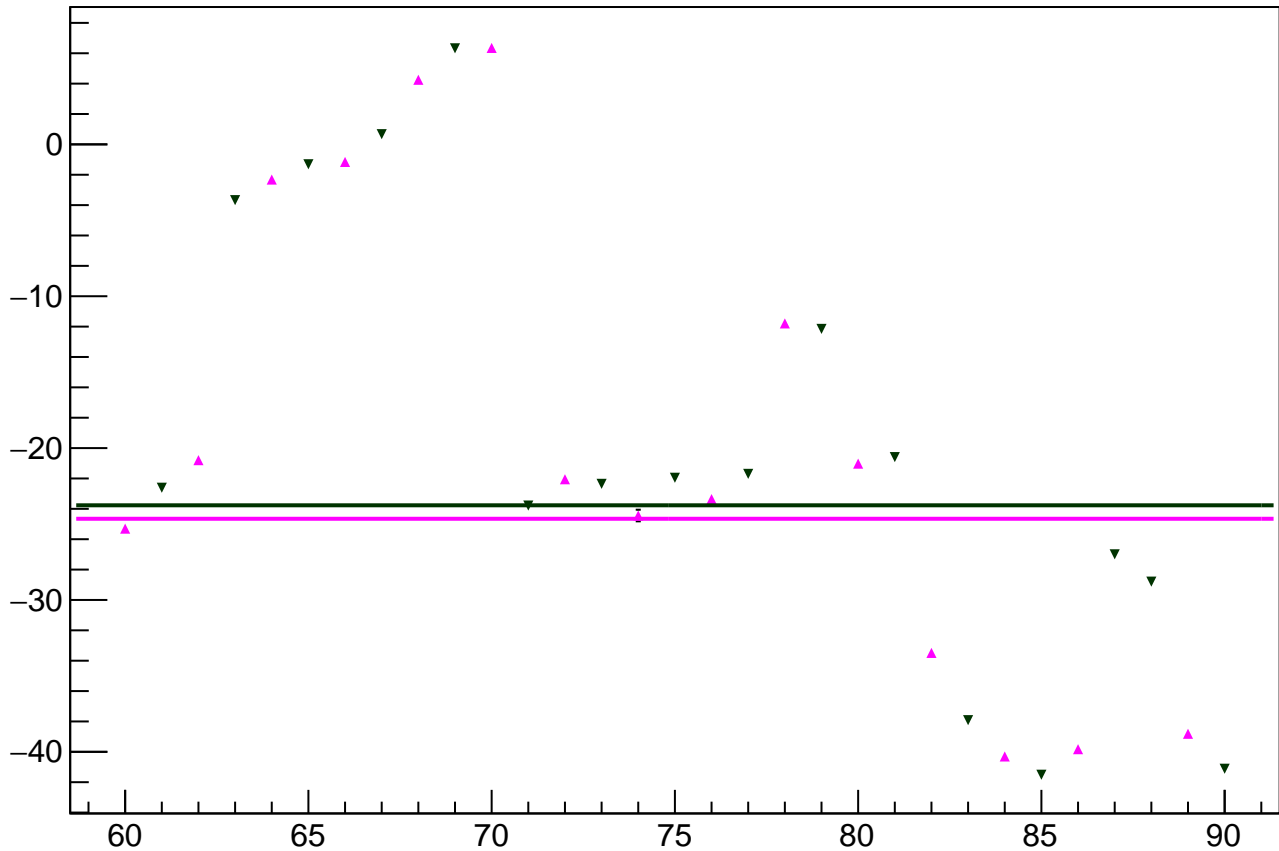
85.341+/-0.257  $\chi^2/\text{NDF}$ : 52324.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

86.925+/-0.259  $\chi^2/\text{NDF}$ : 28609.2/14

Left In: 86.925+/-0.259  $\chi^2/\text{NDF}$ : 28609.2/14

# reg\_asym\_sam5\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -23.767+/-0.041  $\chi^2/\text{NDF}$ : 89687.5/15

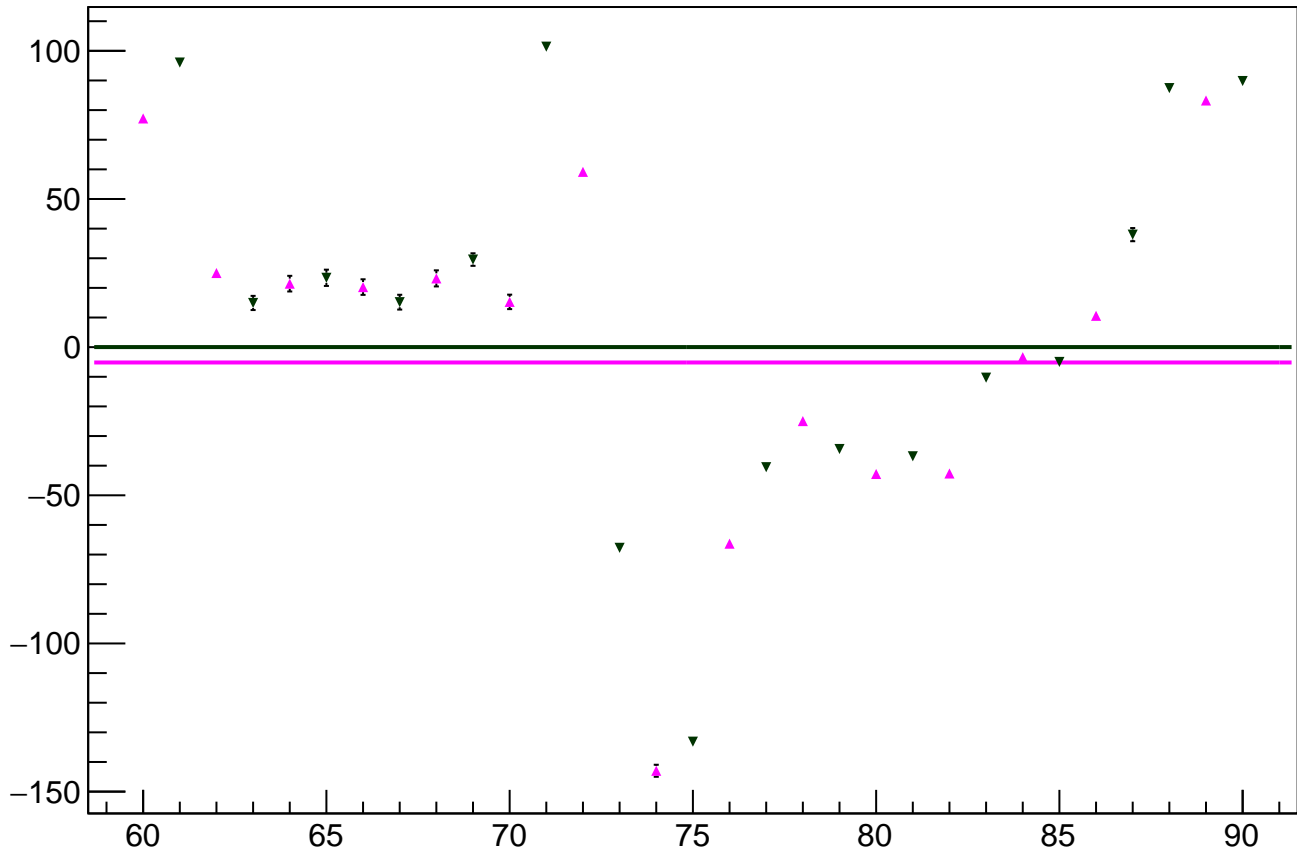
-23.767+/-0.041  $\chi^2/\text{NDF}$ : 89687.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -24.654+/-0.041  $\chi^2/\text{NDF}$ : 94875.7/14

-24.654+/-0.041  $\chi^2/\text{NDF}$ : 94875.7/14

# reg\_asym\_sam5\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.025+/-0.302  $\chi^2/\text{NDF}$ : 50935.4/15

0.025+/-0.302  $\chi^2/\text{NDF}$ : 50935.4/15

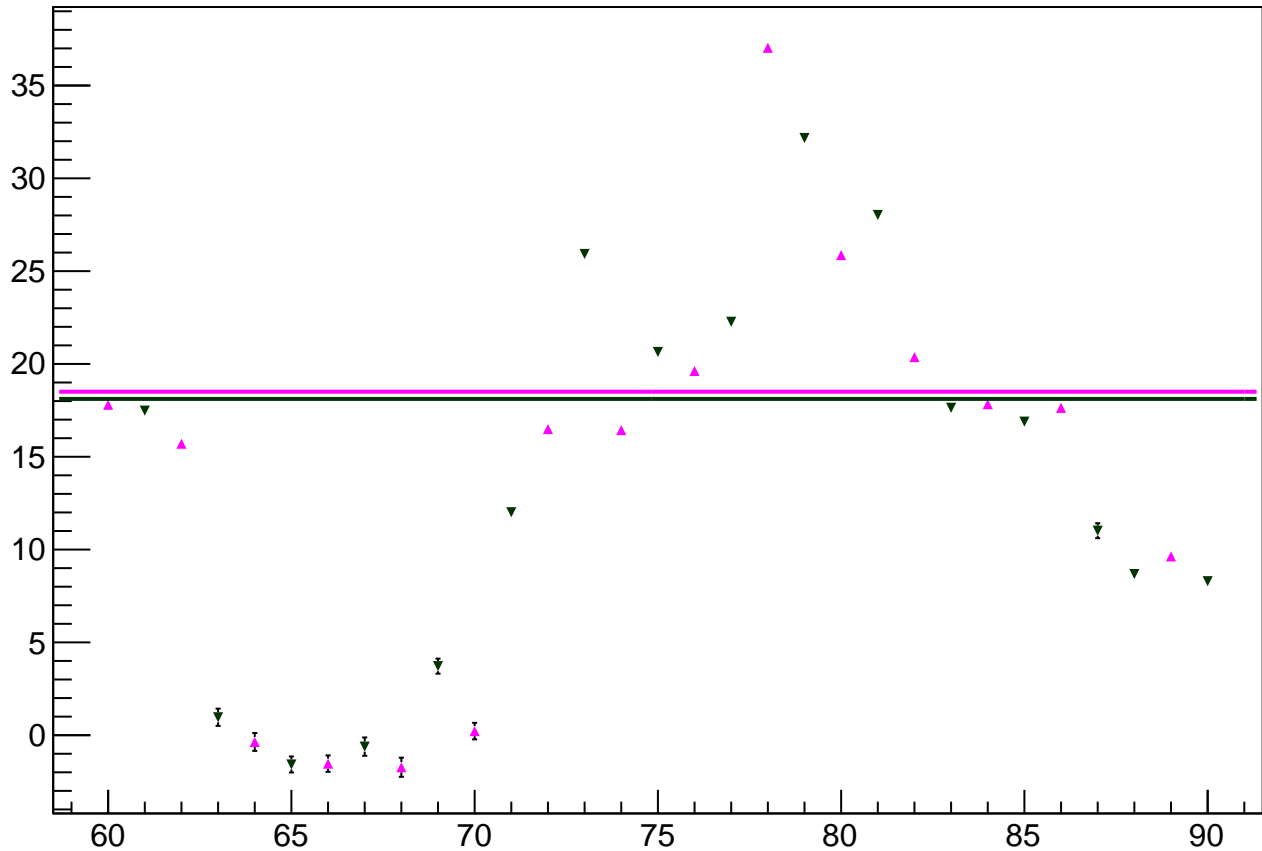
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -5.175+/-0.306  $\chi^2/\text{NDF}$ : 28167.9/14

-5.175+/-0.306  $\chi^2/\text{NDF}$ : 28167.9/14



# reg\_asym\_sam5\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 18.117+/-0.051  $\chi^2$ /NDF:22646.9/15

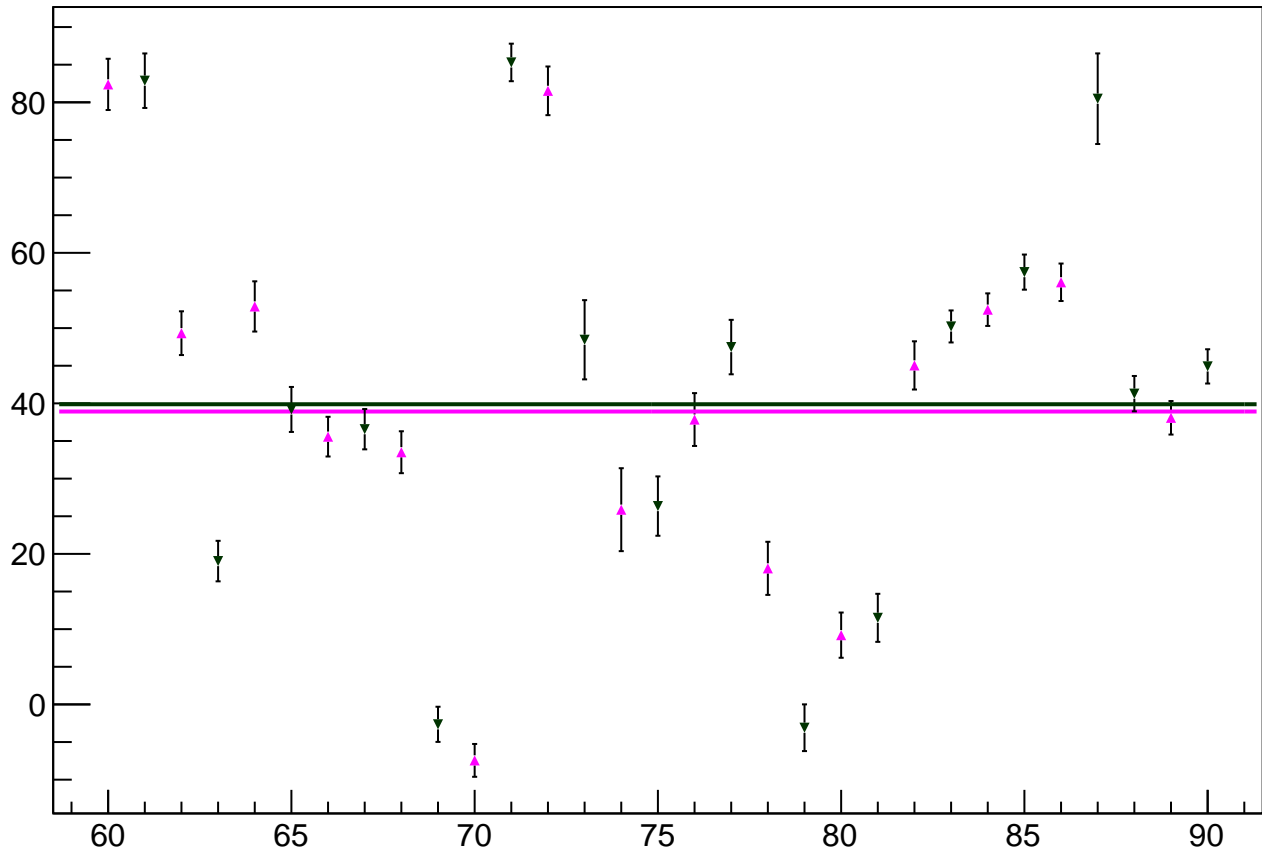
18.117+/-0.051  $\chi^2$ /NDF: 22646.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 18.505+/-0.053  $\chi^2$ /NDF:17779.0/14

18.505+/-0.053  $\chi^2$ /NDF: 17779.0/14

# reg\_asym\_sam6\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 39.883+/-0.708  $\chi^2/\text{NDF}$ :1286.2/15

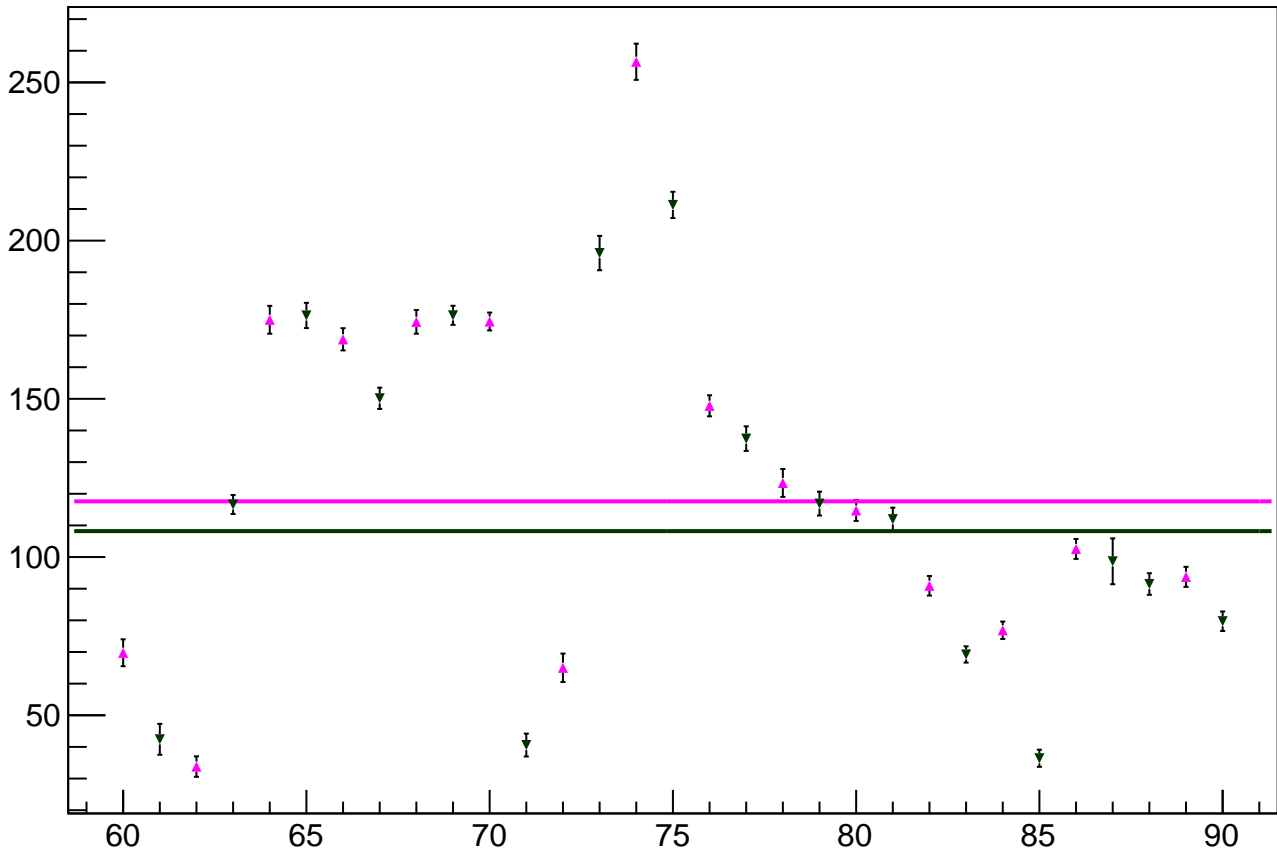
39.883+/-0.708  $\chi^2/\text{NDF}$ : 1286.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 38.917+/-0.735  $\chi^2/\text{NDF}$ :1052.9/14

38.917+/-0.735  $\chi^2/\text{NDF}$ : 1052.9/14

# reg\_asym\_sam6\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

108.193+/-0.880  $\chi^2/\text{NDF}$ : 3479.3/15

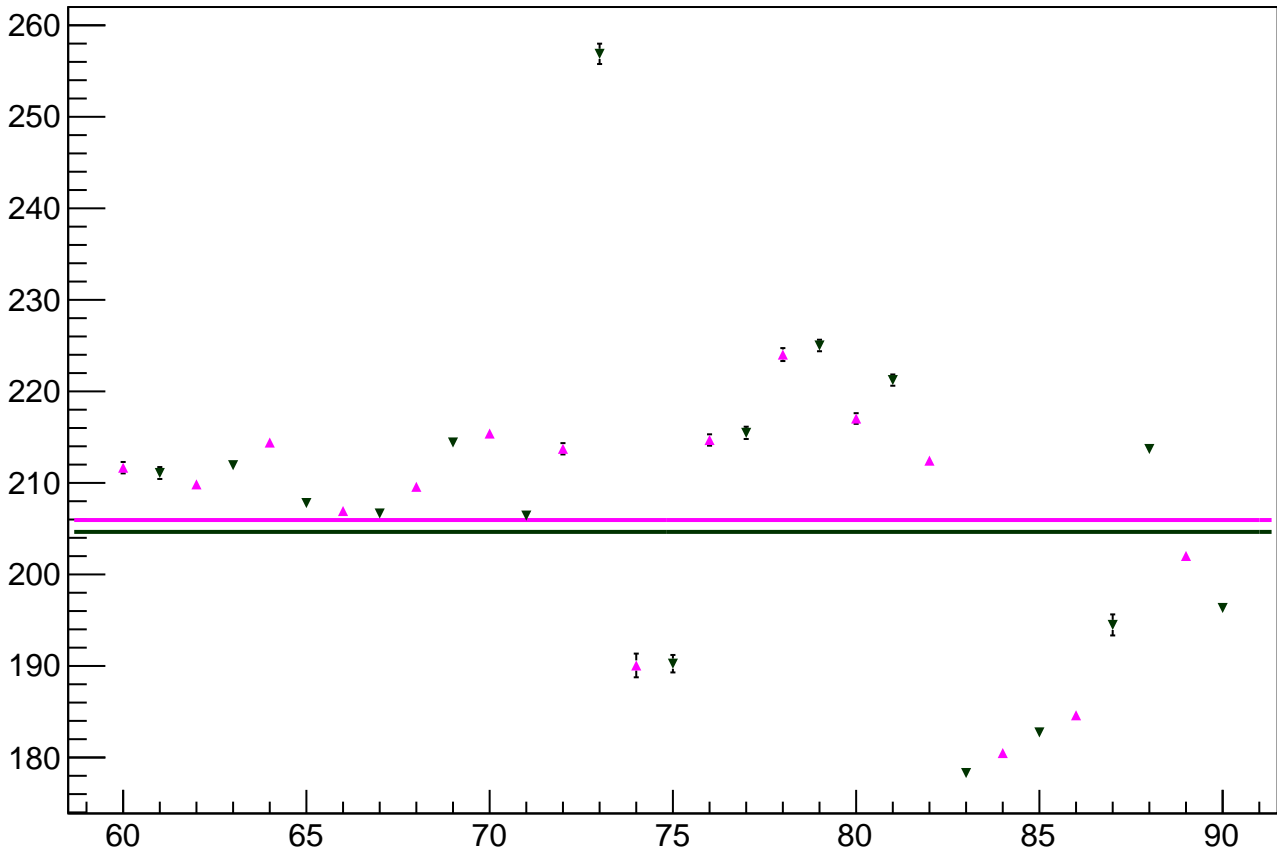
Left Out: 108.193+/-0.880  $\chi^2/\text{NDF}$ : 3479.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

117.603+/-0.901  $\chi^2/\text{NDF}$ : 3002.7/14

Left In: 117.603+/-0.901  $\chi^2/\text{NDF}$ : 3002.7/14

# reg\_asym\_sam6\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 204.648+/-0.131  $\chi^2/\text{NDF}$ :12826.3/15

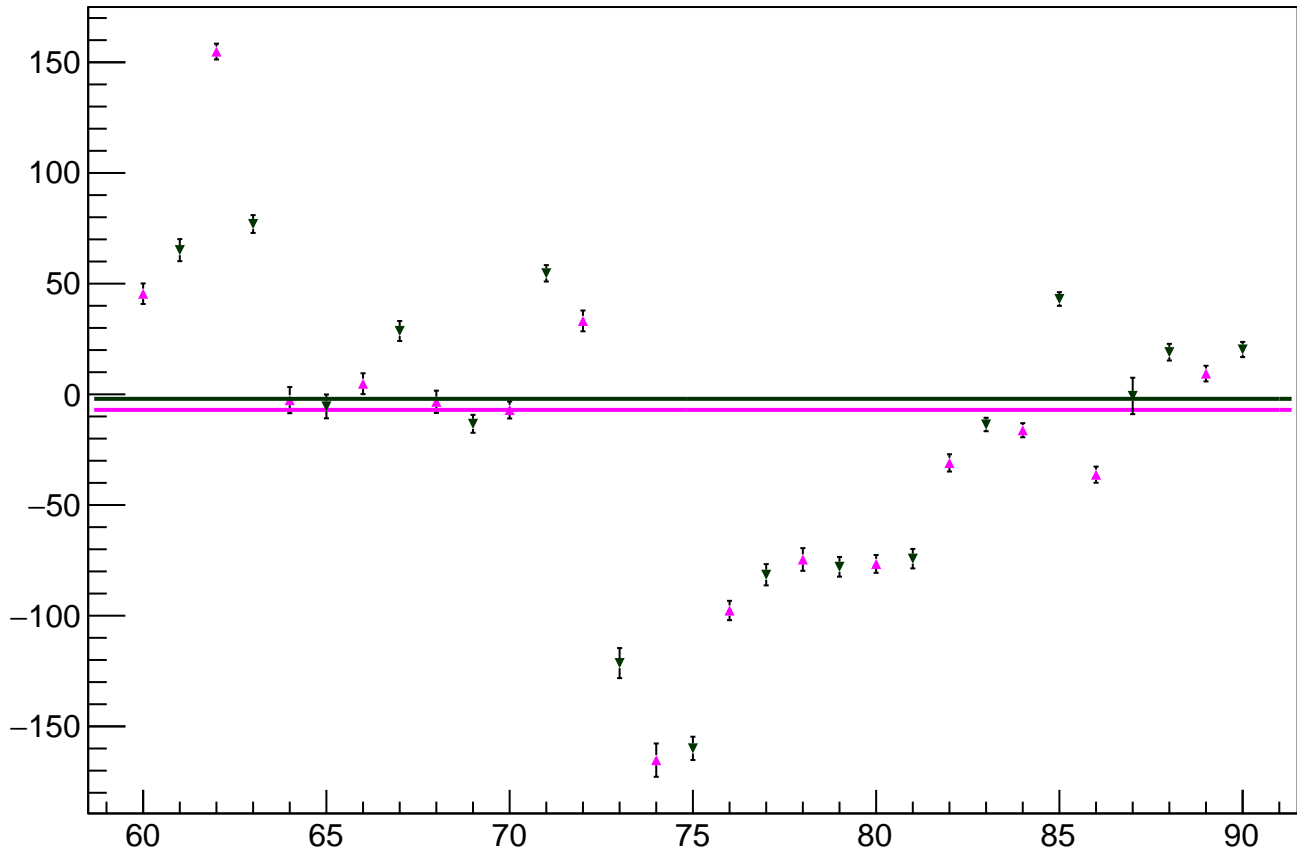
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 205.945+/-0.134  $\chi^2/\text{NDF}$ :8411.4/14

204.648+/-0.131  $\chi^2/\text{NDF}$ : 12826.3/15

205.945+/-0.134  $\chi^2/\text{NDF}$ : 8411.4/14

# reg\_asym\_sam6\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -2.034+/-1.051  $\chi^2$ /NDF:3195.8/15

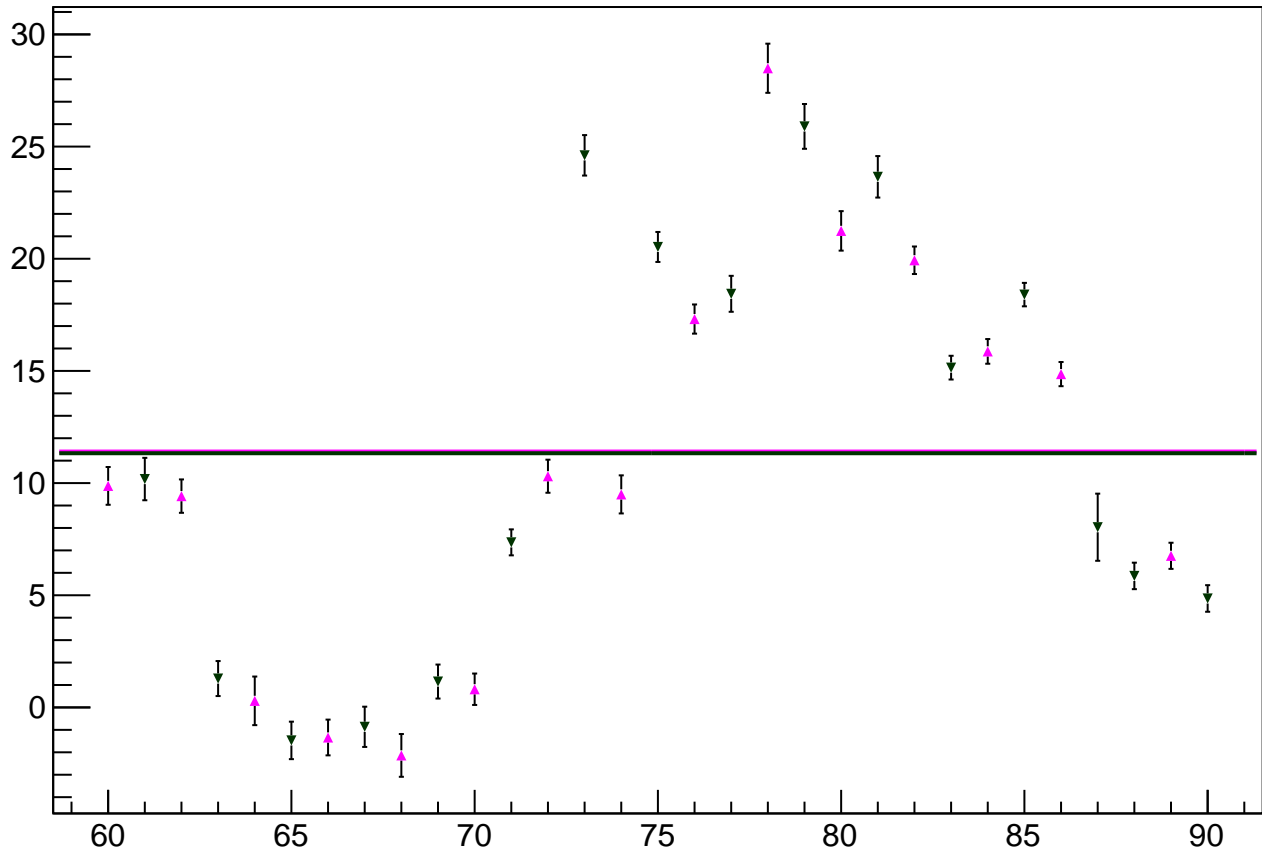
-2.034+/-1.051  $\chi^2$ /NDF: 3195.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -7.021+/-1.091  $\chi^2$ /NDF:3740.5/14

-7.021+/-1.091  $\chi^2$ /NDF: 3740.5/14

# reg\_asym\_sam6\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 11.331+/-0.180  $\chi^2/\text{NDF}$ :2134.2/15

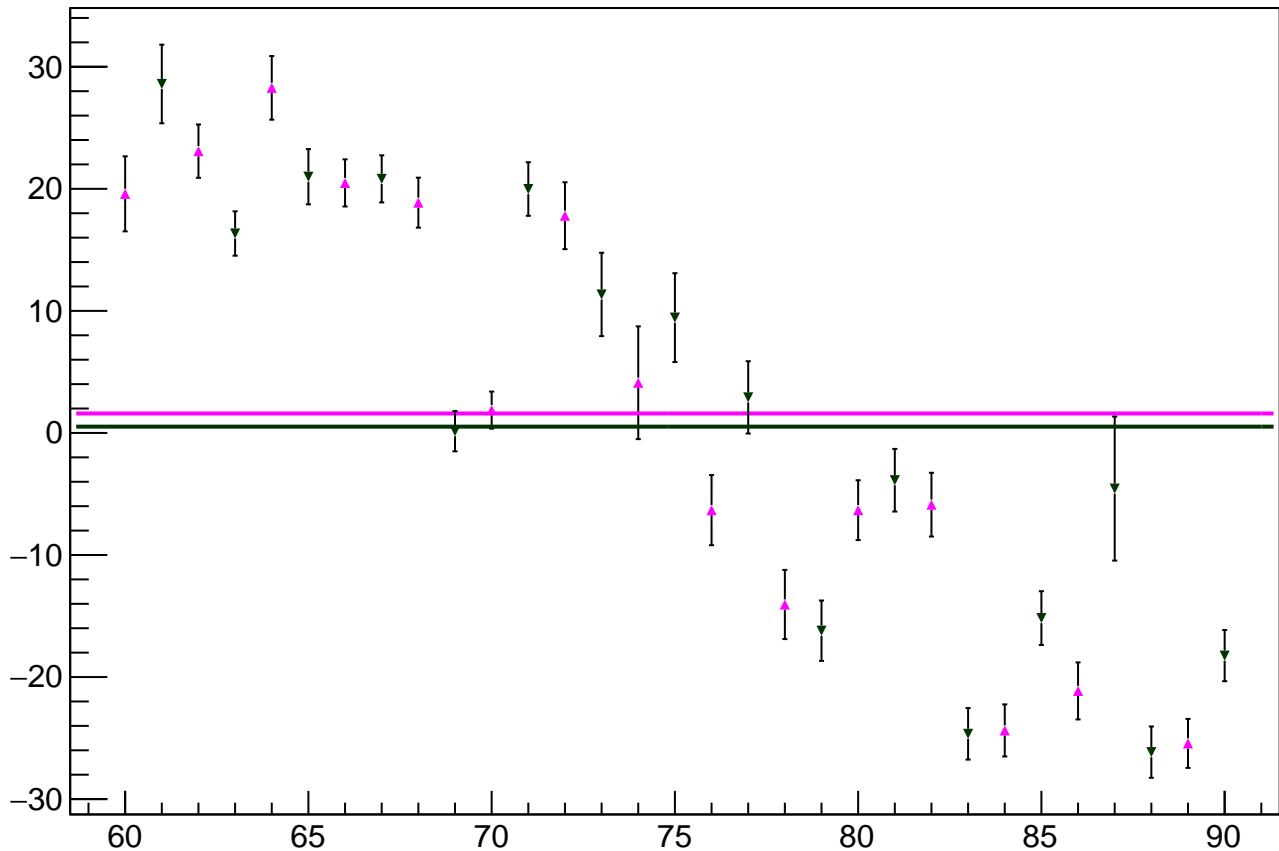
11.331+/-0.180  $\chi^2/\text{NDF}$ : 2134.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11.406+/-0.186  $\chi^2/\text{NDF}$ : 1624.0/14

Left In: 11.406+/-0.186  $\chi^2/\text{NDF}$ :1624.0/14

# reg\_asym\_sam7\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.517+/-0.583  $\chi^2/\text{NDF}$ :922.6/15

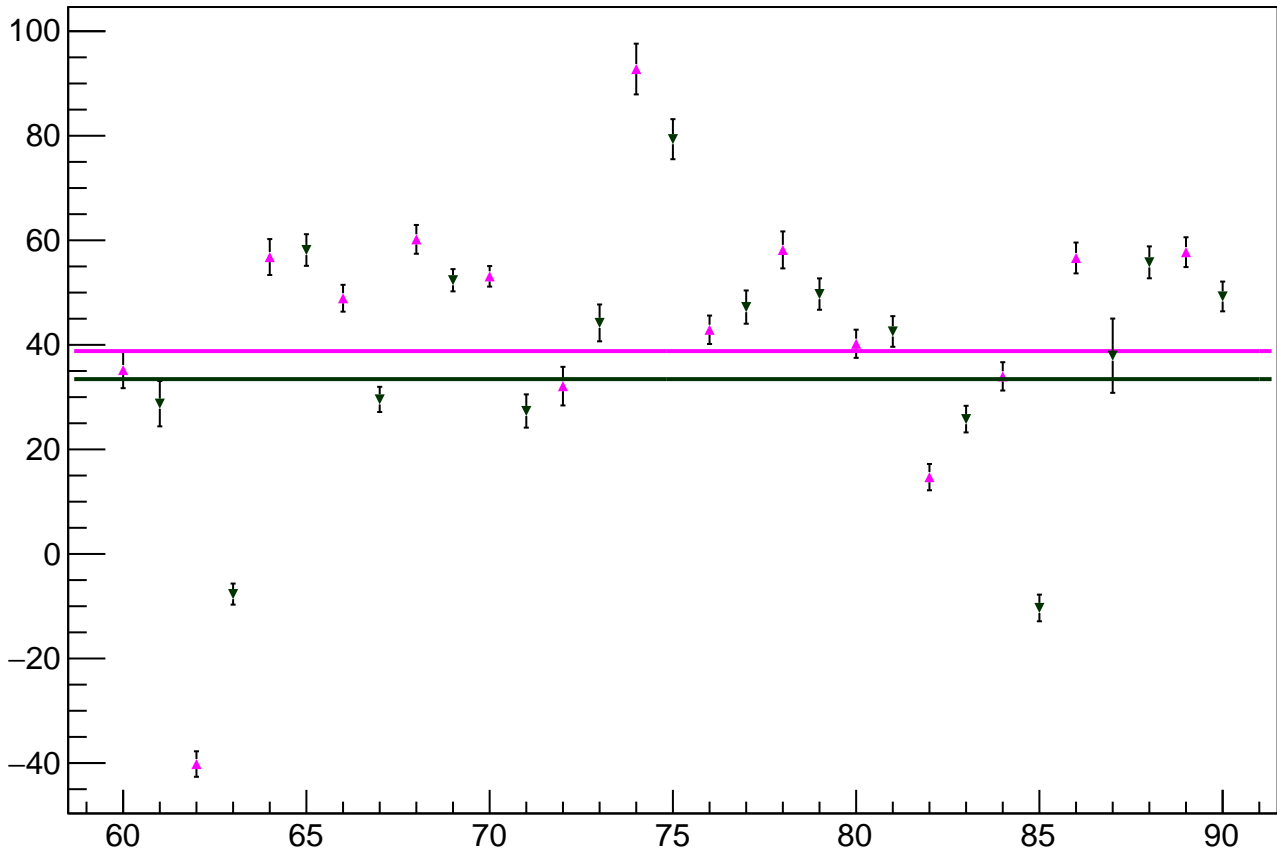
0.517+/-0.583  $\chi^2/\text{NDF}$ : 922.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.596+/-0.598  $\chi^2/\text{NDF}$ : 918.7/14

Left In: 1.596+/-0.598  $\chi^2/\text{NDF}$ :918.7/14

# reg\_asym\_sam7\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 33.445+/-0.719  $\chi^2$ /NDF:1168.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

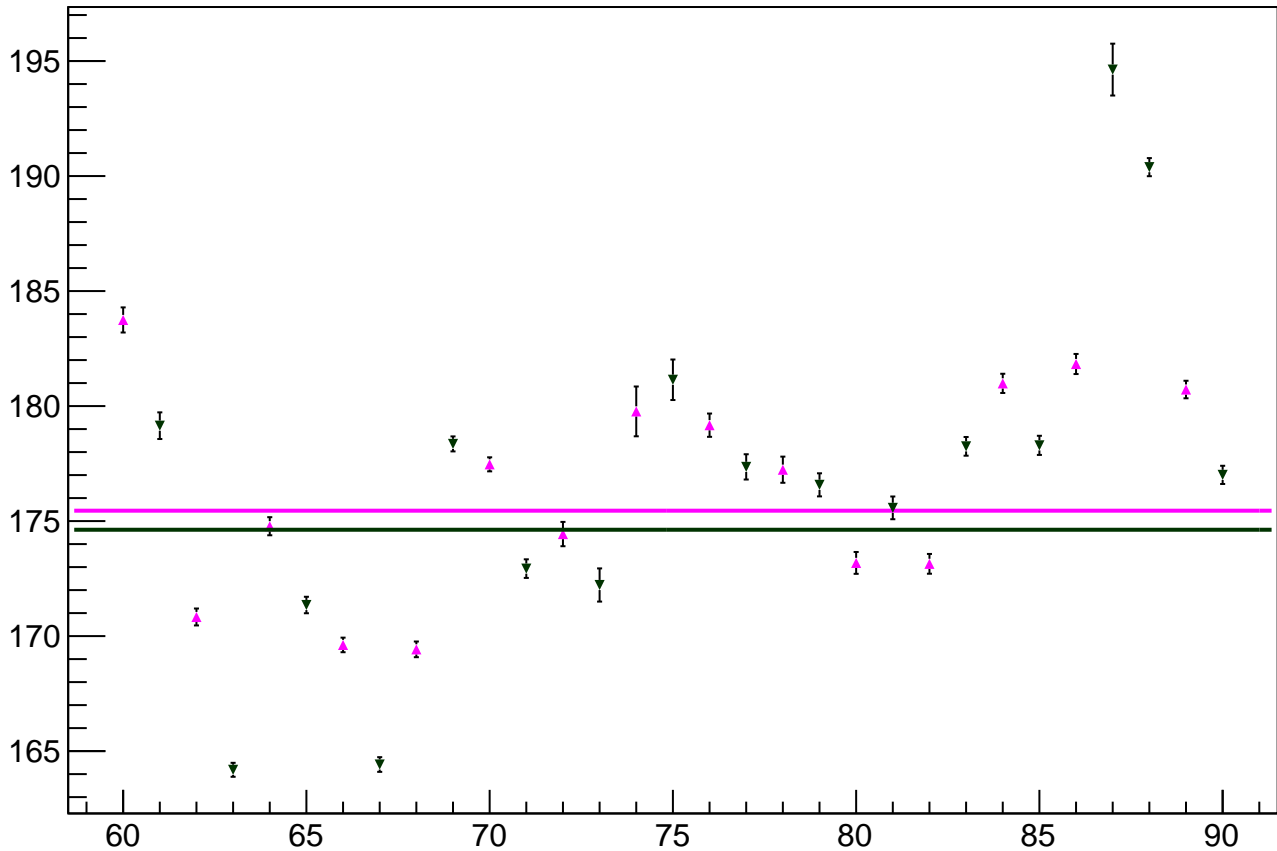
Left In: 38.807+/-0.730  $\chi^2$ /NDF:1539.9/14

33.445+/-0.719  $\chi^2$ /NDF: 1168.2/15

38.807+/-0.730  $\chi^2$ /NDF: 1539.9/14



# reg\_asym\_sam7\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 174.623+/-0.107  $\chi^2$ /NDF:4716.7/15

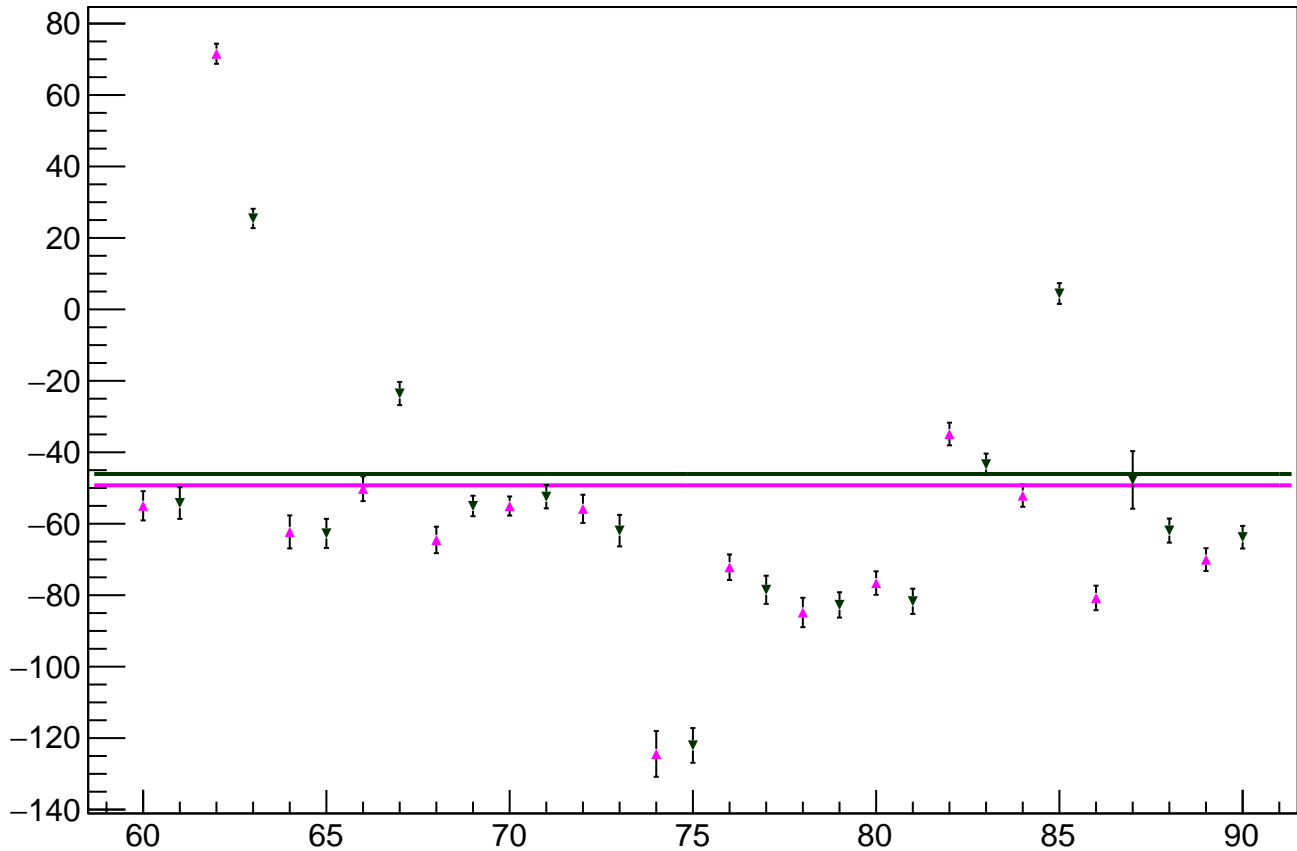
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 175.452+/-0.108  $\chi^2$ /NDF:1802.1/14

174.623+/-0.107  $\chi^2$ /NDF: 4716.7/15

175.452+/-0.108  $\chi^2$ /NDF: 1802.1/14

# reg\_asym\_sam7\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -46.071+/-0.874  $\chi^2/\text{NDF}$ :1669.1/15

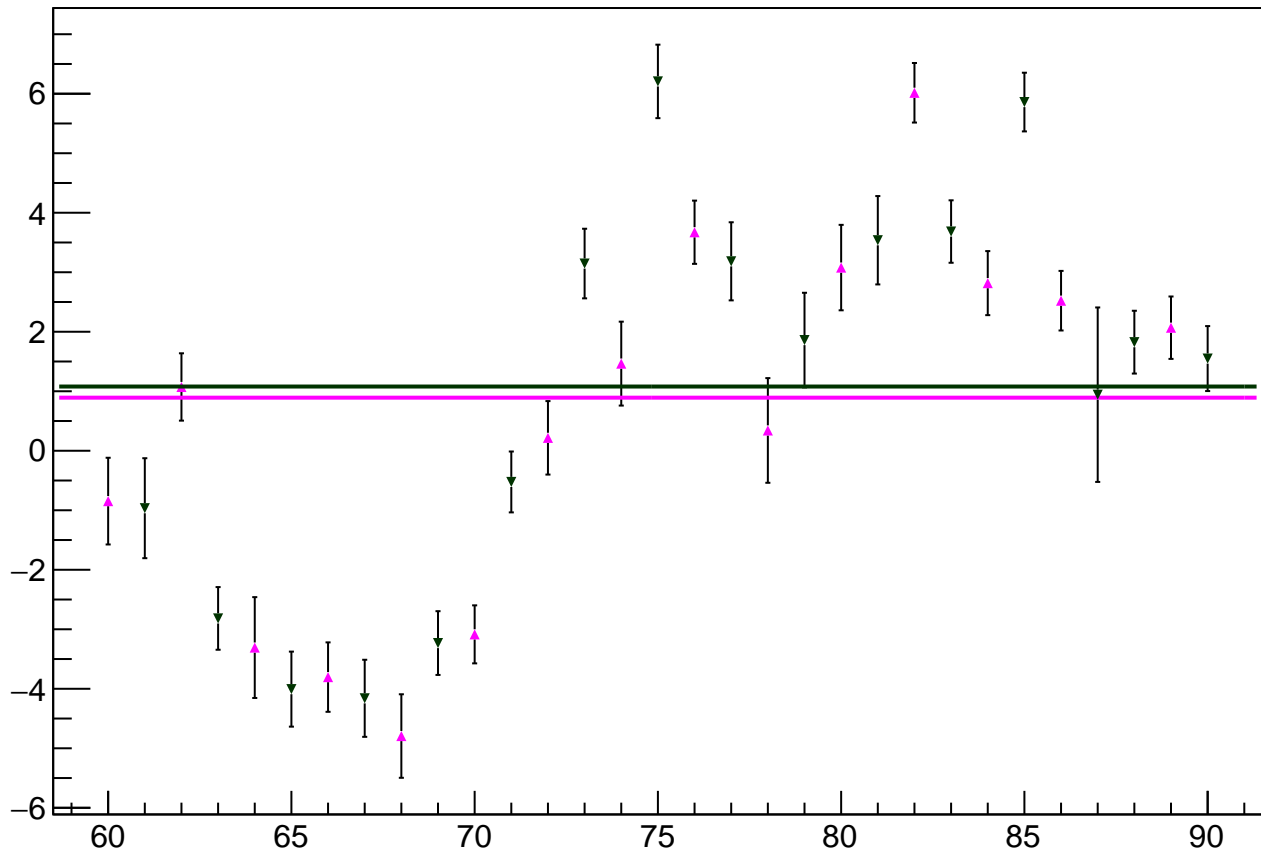
-46.071+/-0.874  $\chi^2/\text{NDF}$ : 1669.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -49.234+/-0.901  $\chi^2/\text{NDF}$ :2350.0/14

-49.234+/-0.901  $\chi^2/\text{NDF}$ : 2350.0/14

# reg\_asym\_sam7\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.079+/-0.151  $\chi^2$ /NDF:490.8/15

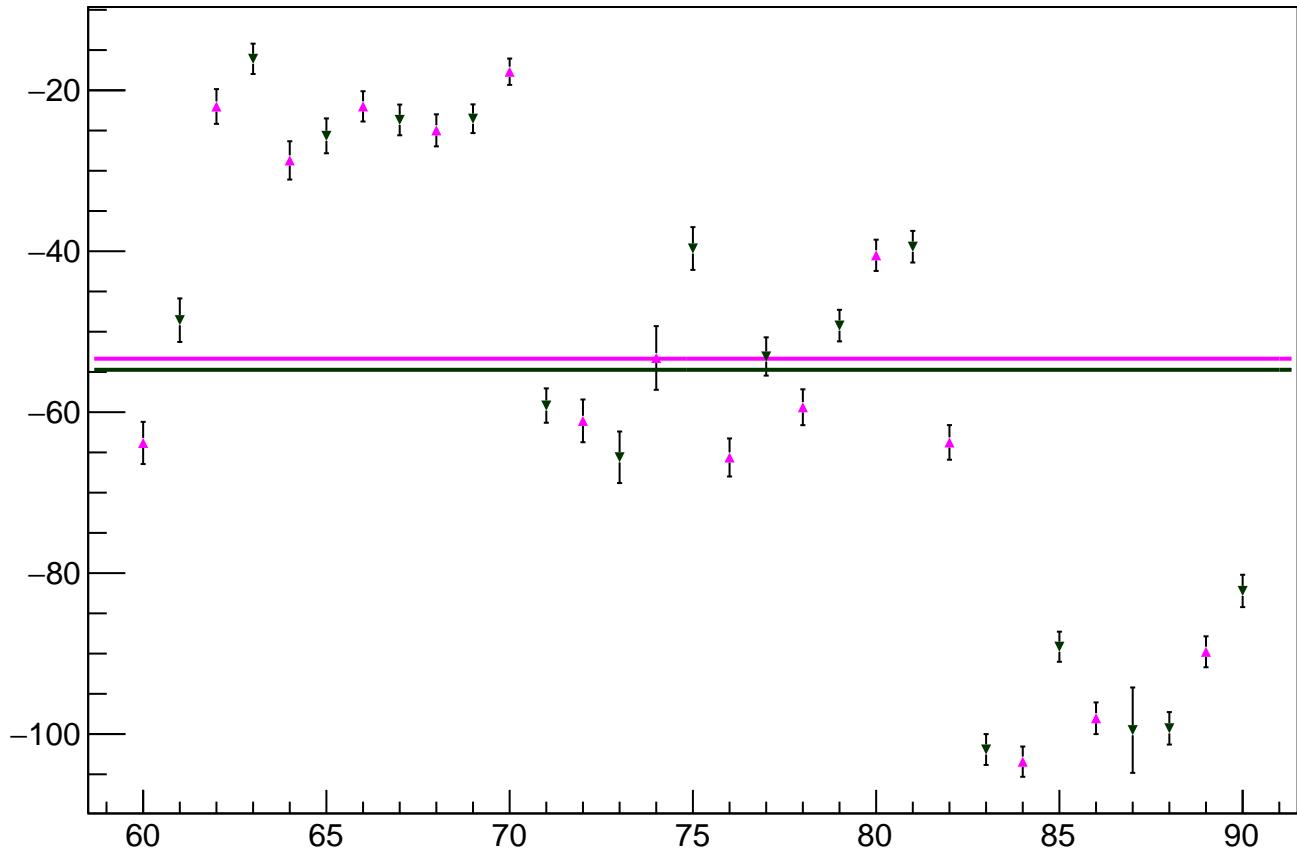
1.079+/-0.151  $\chi^2$ /NDF: 490.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.892+/-0.154  $\chi^2$ /NDF: 399.5/14

Left In: 0.892+/-0.154  $\chi^2$ /NDF:399.5/14

# reg\_asym\_sam8\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -54.732+/-0.538  $\chi^2$ /NDF:2983.8/15

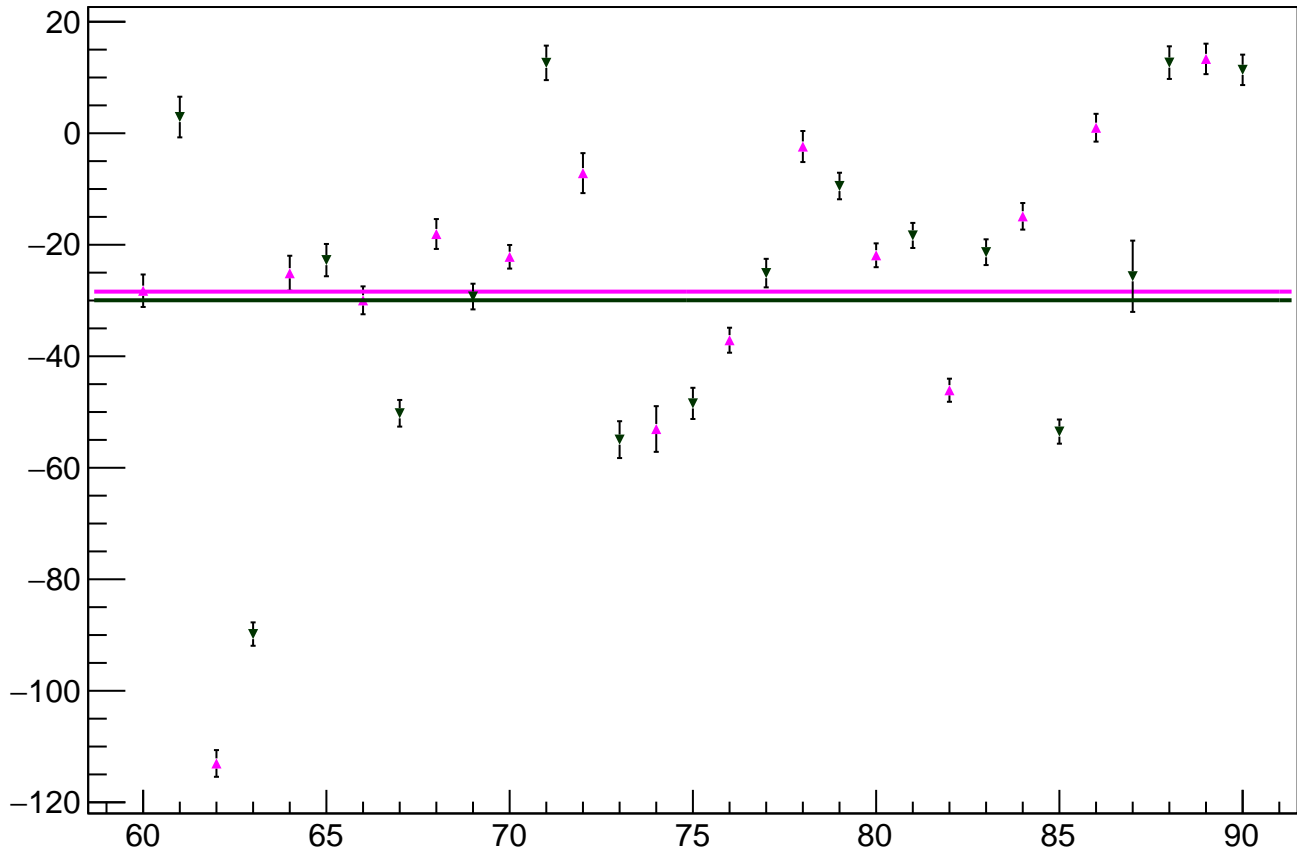
-54.732+/-0.538  $\chi^2$ /NDF: 2983.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -53.354+/-0.549  $\chi^2$ /NDF:2983.3/14

-53.354+/-0.549  $\chi^2$ /NDF: 2983.3/14

# reg\_asym\_sam8\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -29.954+/-0.658  $\chi^2$ /NDF:1942.4/15

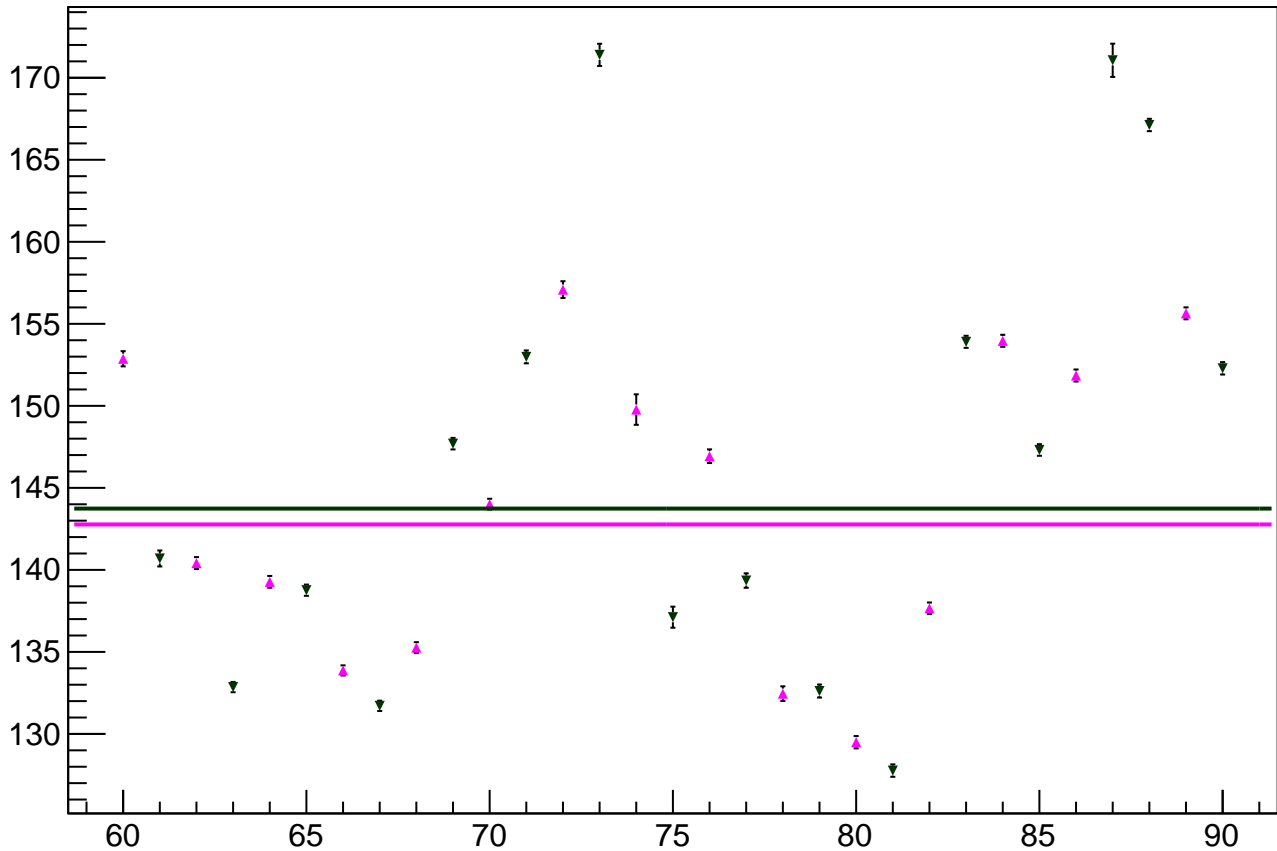
-29.954+/-0.658  $\chi^2$ /NDF: 1942.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -28.405+/-0.659  $\chi^2$ /NDF:1933.5/14

-28.405+/-0.659  $\chi^2$ /NDF: 1933.5/14

# reg\_asym\_sam8\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 143.738+/-0.100  $\chi^2/\text{NDF}$ : 13958.6/15

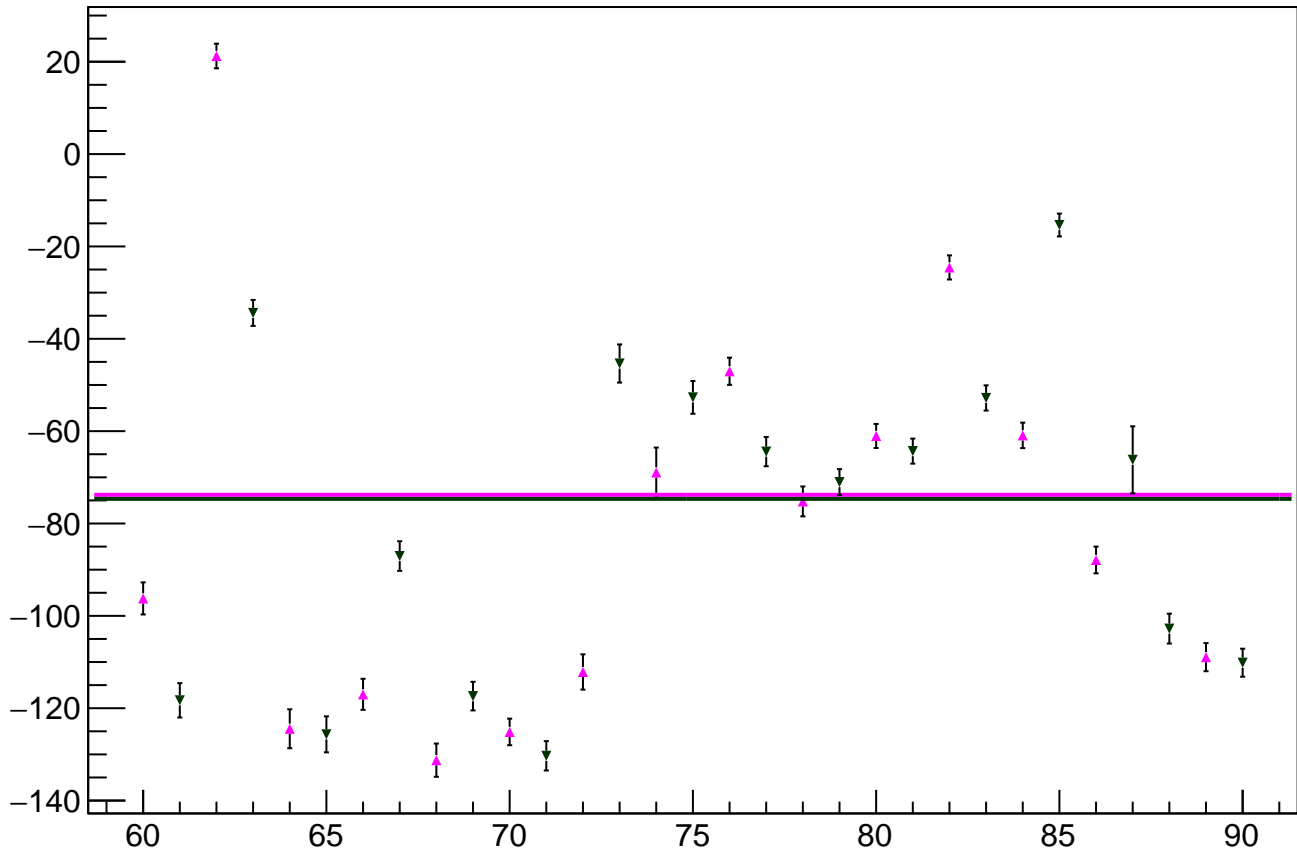
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 142.771+/-0.099  $\chi^2/\text{NDF}$ : 7674.9/14

143.738+/-0.100  $\chi^2/\text{NDF}$ : 13958.6/15

142.771+/-0.099  $\chi^2/\text{NDF}$ : 7674.9/14

# reg\_asym\_sam8\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -74.661+/-0.794  $\chi^2$ /NDF:1993.9/15

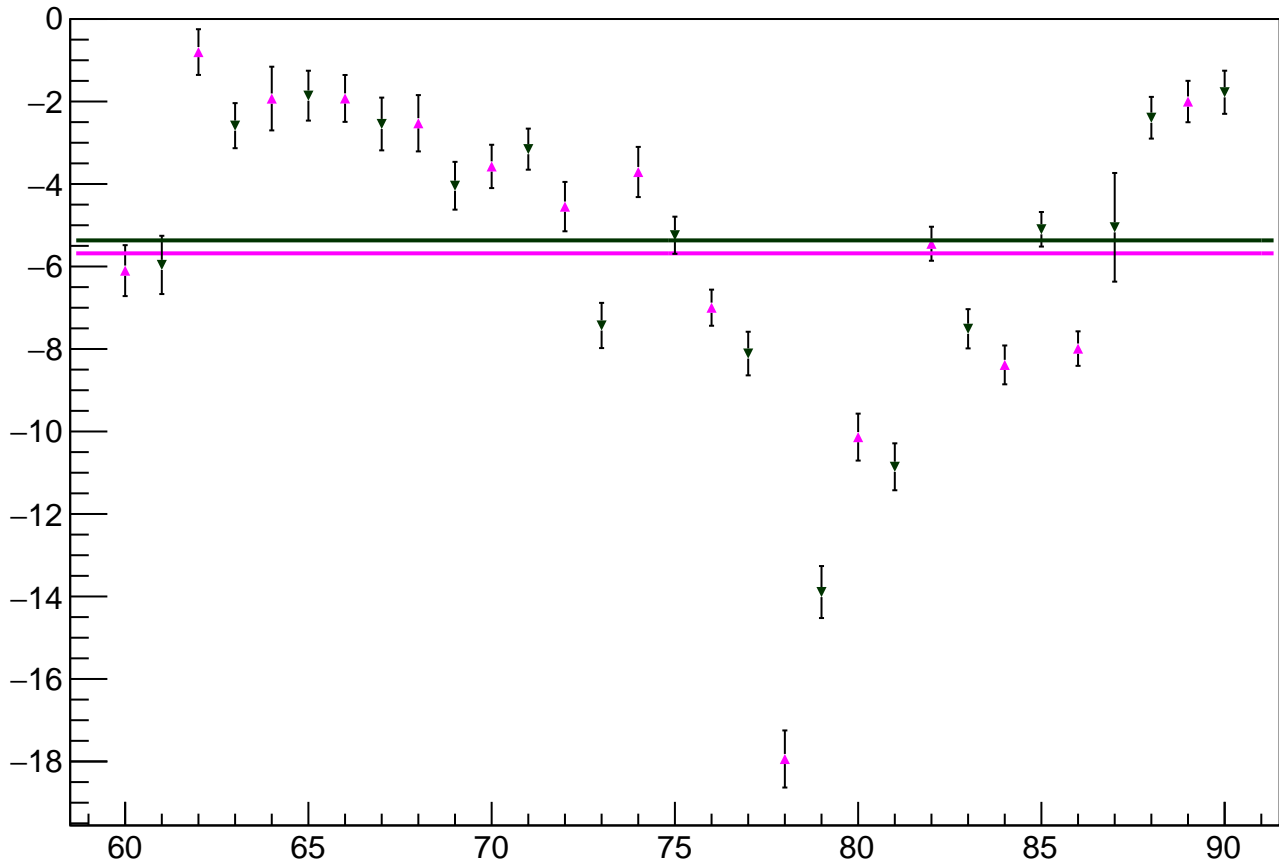
-74.661+/-0.794  $\chi^2$ /NDF: 1993.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -73.785+/-0.808  $\chi^2$ /NDF:2933.7/14

-73.785+/-0.808  $\chi^2$ /NDF: 2933.7/14

# reg\_asym\_sam8\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5.367+/-0.137  $\chi^2$ /NDF:524.4/15

-5.367+/-0.137  $\chi^2$ /NDF: 524.4/15

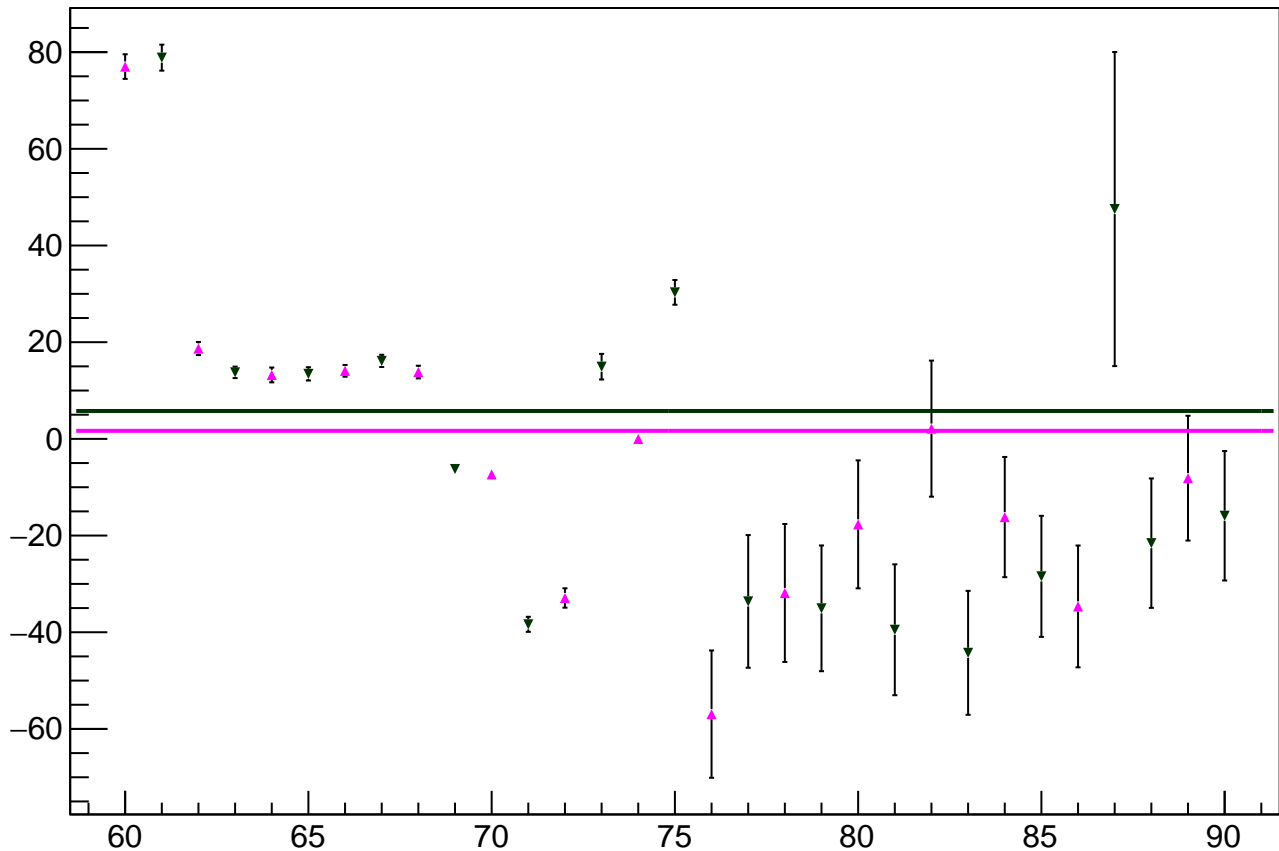
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -5.681+/-0.138  $\chi^2$ /NDF:698.4/14

-5.681+/-0.138  $\chi^2$ /NDF: 698.4/14



# reg\_asym\_atr1\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5.770+/-0.518  $\chi^2$ /NDF:1990.2/15

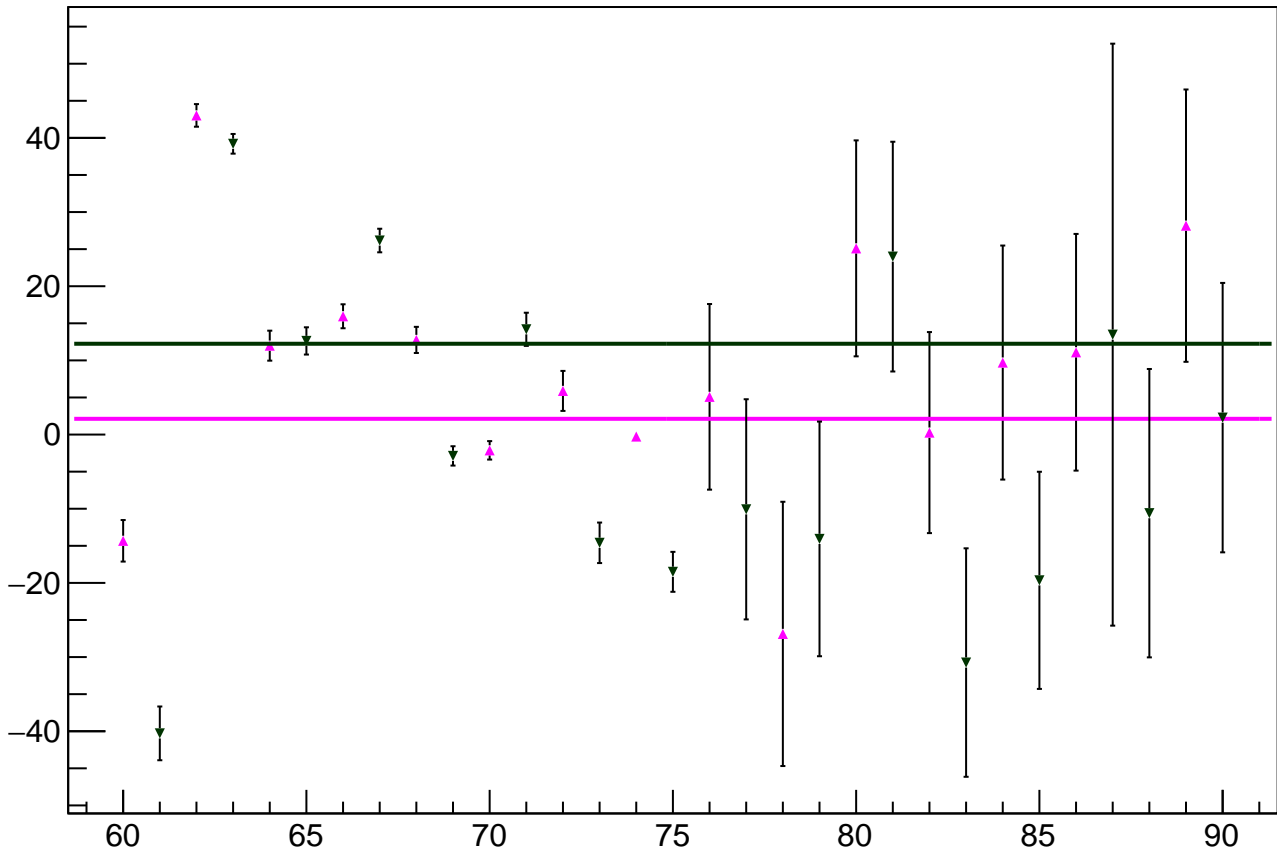
5.770+/-0.518  $\chi^2$ /NDF: 1990.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1.662+/-0.244  $\chi^2$ /NDF: 1740.0/14

Left In: 1.662+/-0.244  $\chi^2$ /NDF:1740.0/14

# reg\_asym\_atr1\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 12.244+/-0.642  $\chi^2/\text{NDF}$ : 1081.9/15

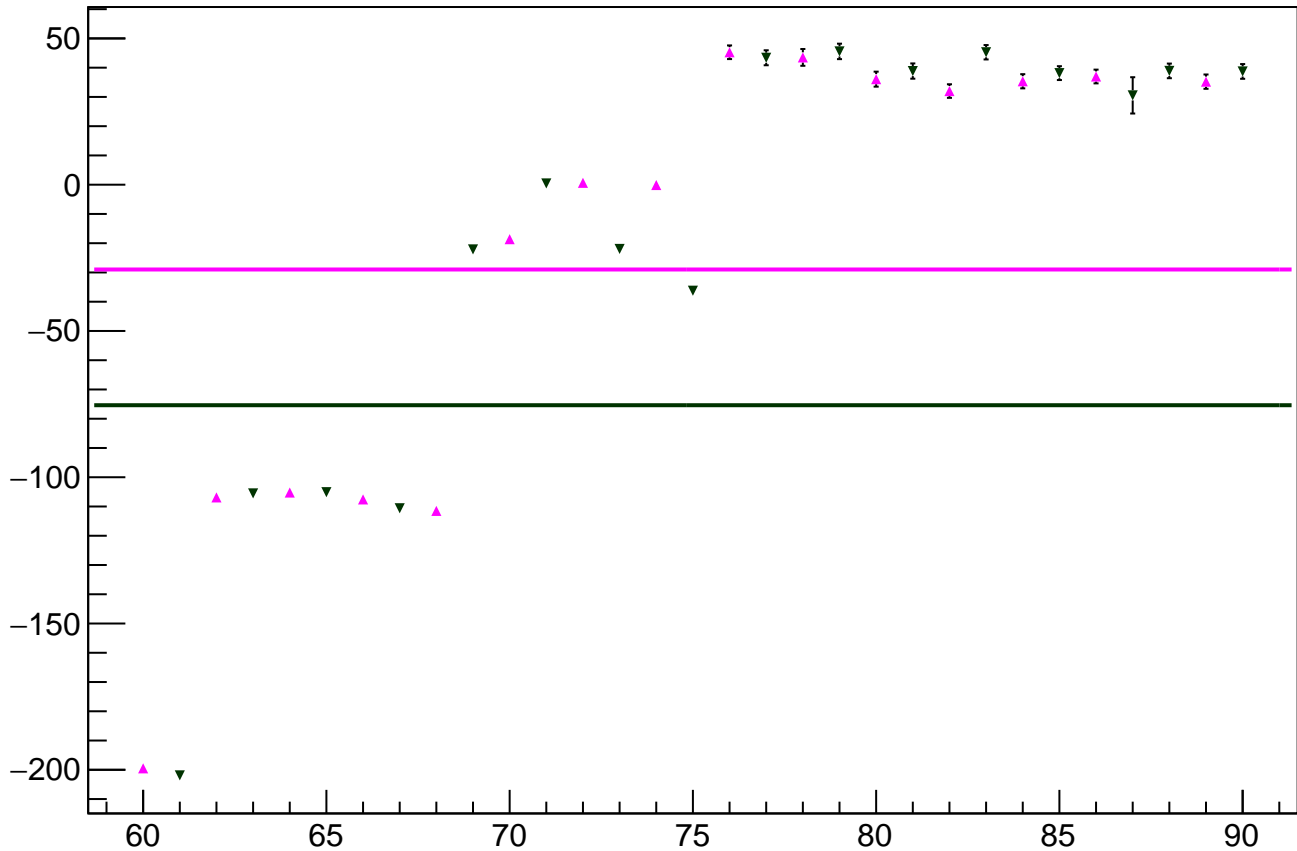
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.124+/-0.282  $\chi^2/\text{NDF}$ : 967.8/14

12.244+/-0.642  $\chi^2/\text{NDF}$ : 1081.9/15

2.124+/-0.282  $\chi^2/\text{NDF}$ : 967.8/14

# reg\_asym\_atr1\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -75.380+/-0.092  $\chi^2/\text{NDF}$ : 313062.1/15

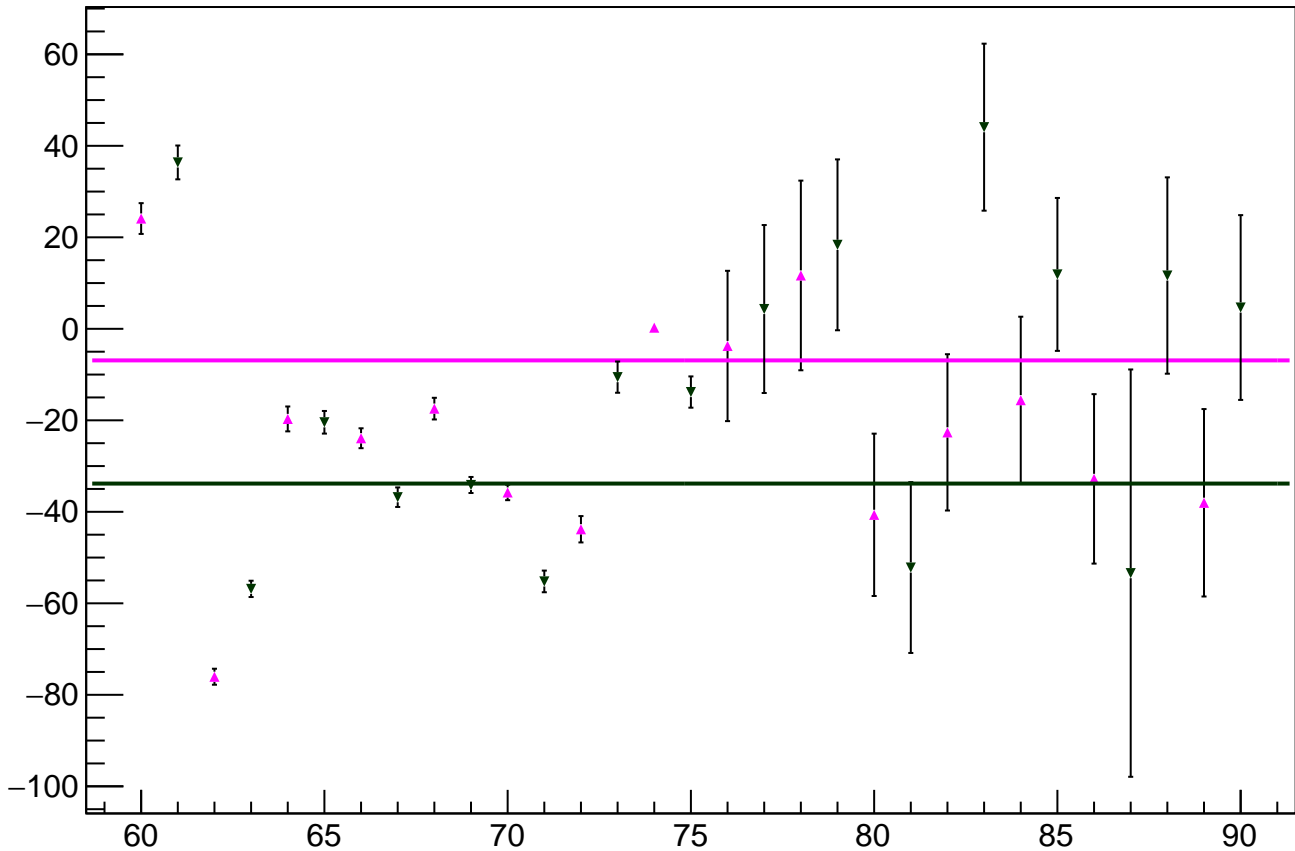
-75.380+/-0.092  $\chi^2/\text{NDF}$ : 313062.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-28.986+/-0.052  $\chi^2/\text{NDF}$ : 880549.9/14

Left In: -28.986+/-0.052  $\chi^2/\text{NDF}$ : 880549.9/14

# reg\_asym\_atr1\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-33.826+/-0.826  $\chi^2$ /NDF: 768.0/15

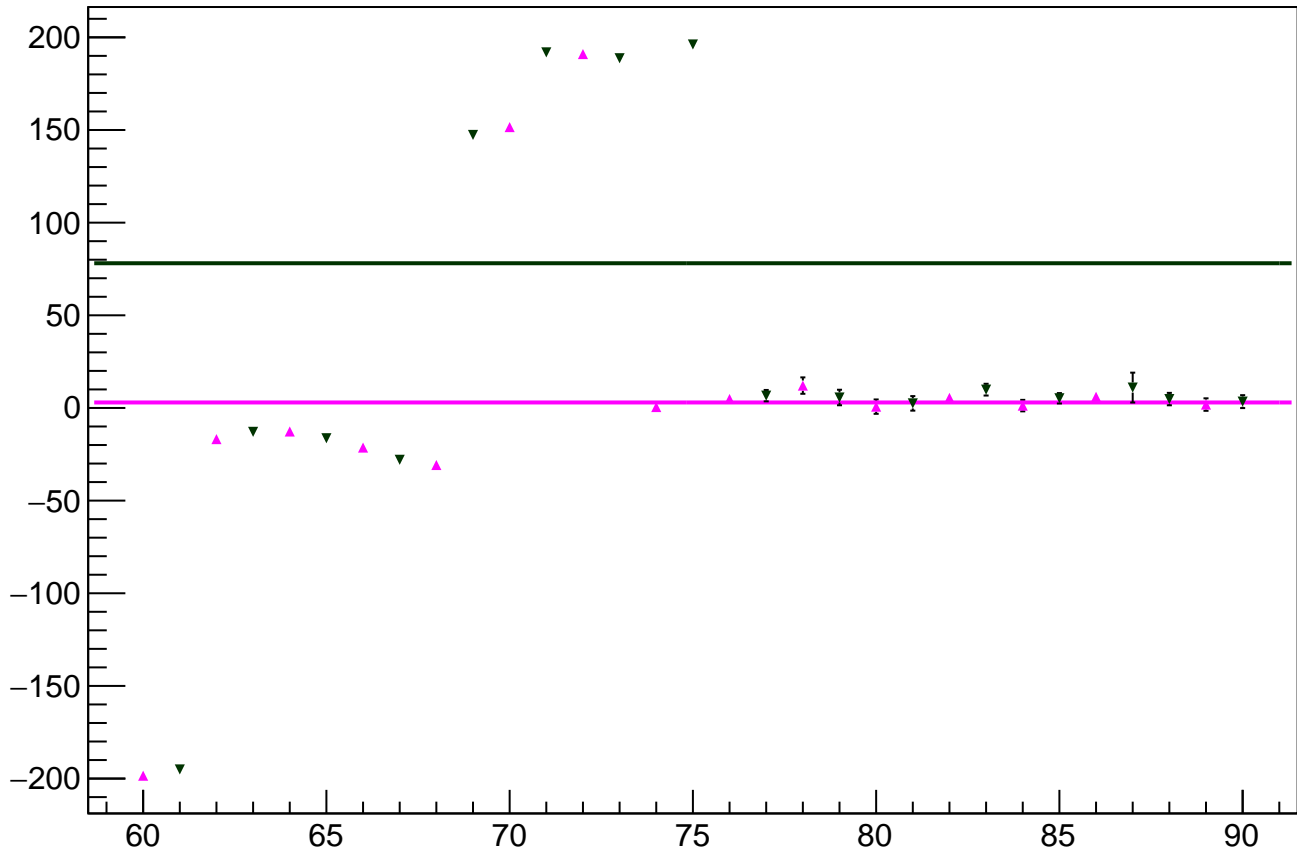
Left Out: -33.826+/-0.826  $\chi^2$ /NDF: 768.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-6.902+/-0.370  $\chi^2$ /NDF: 2516.7/14

Left In: -6.902+/-0.370  $\chi^2$ /NDF: 2516.7/14

# reg\_asym\_atr1\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 78.093+/-0.142  $\chi^2$ /NDF:614026.9/15

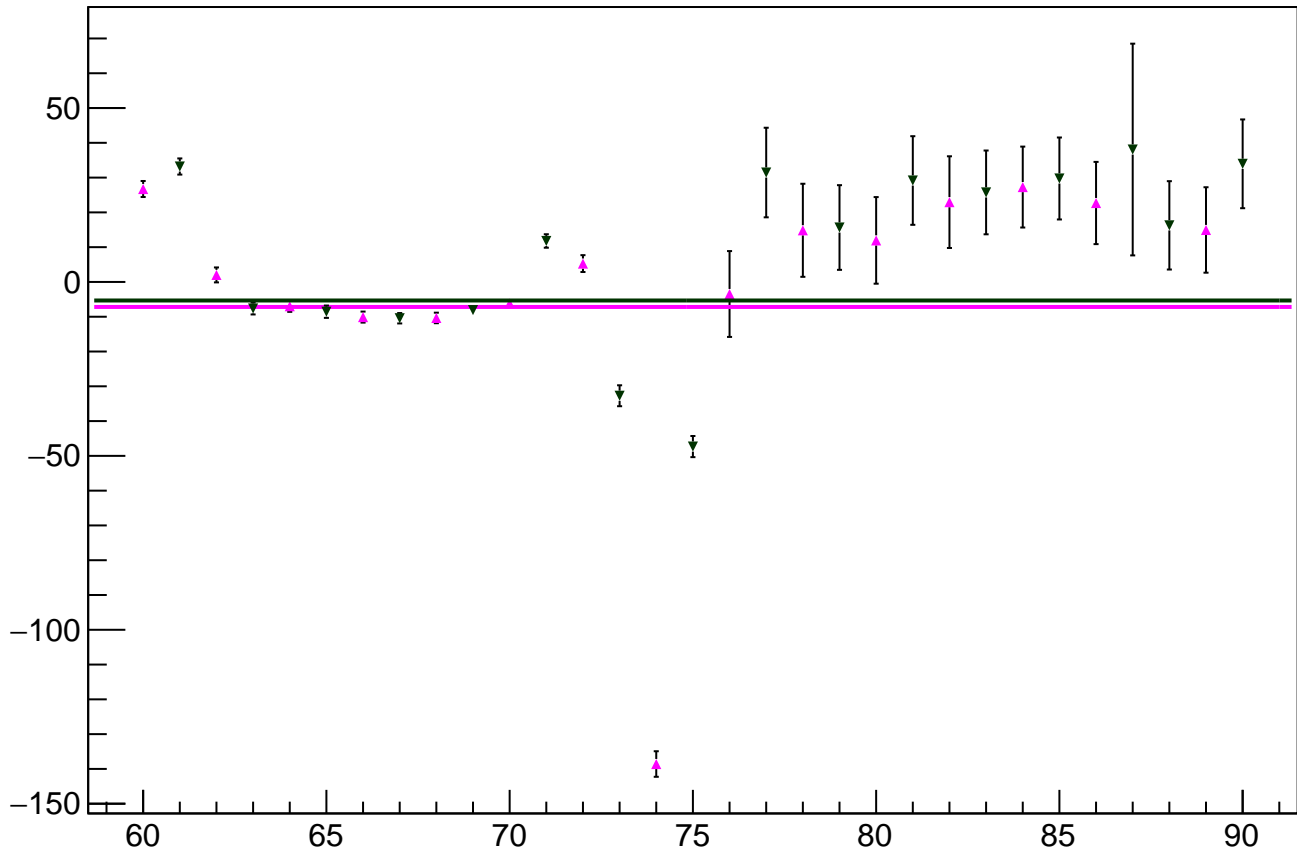
78.093+/-0.142  $\chi^2$ /NDF: 614026.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2.962+/-0.041  $\chi^2$ /NDF: 535219.7/14

Left In: 2.962+/-0.041  $\chi^2$ /NDF:535219.7/14

# reg\_asym\_atl1\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5.330+/-0.651  $\chi^2$ /NDF:696.0/15

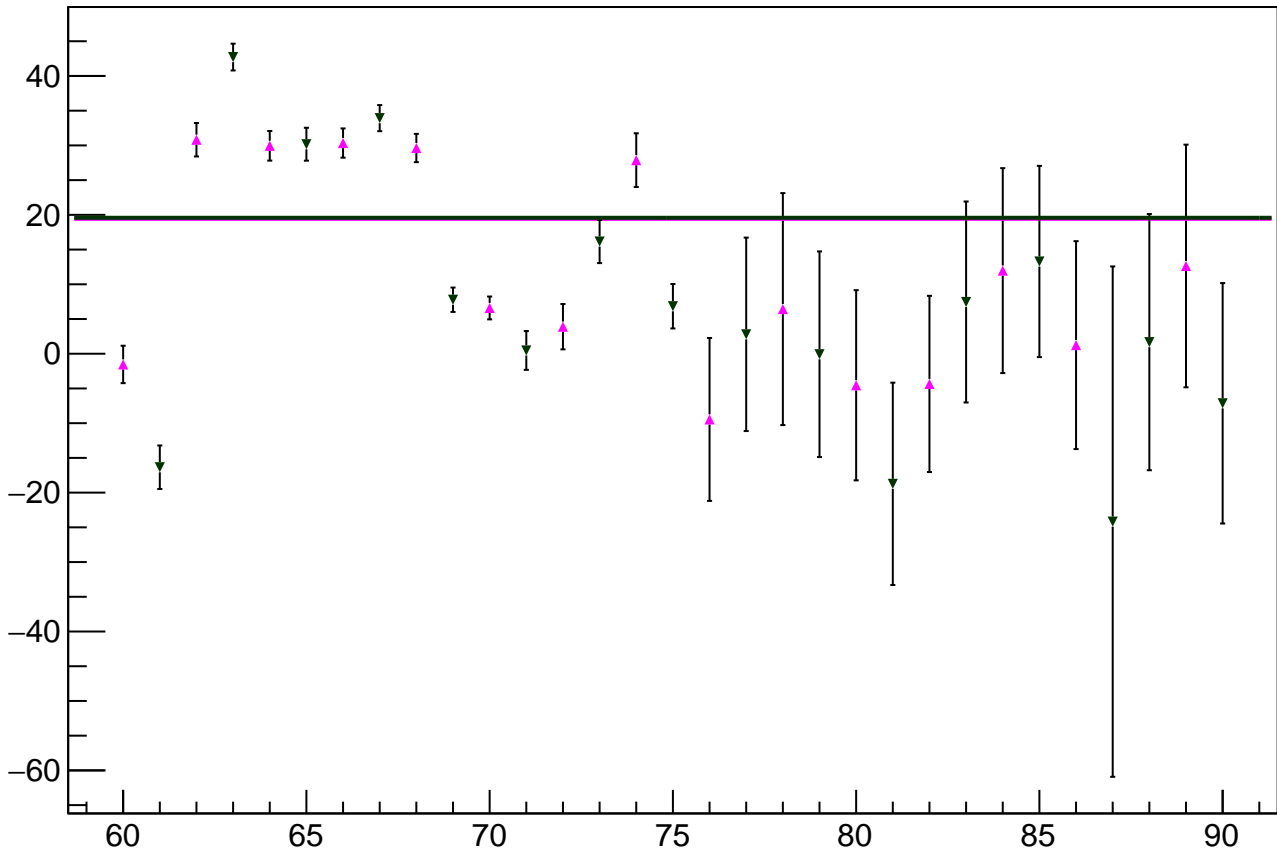
-5.330+/-0.651  $\chi^2$ /NDF: 696.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-7.188+/-0.628  $\chi^2$ /NDF: 1578.0/14

Left In: -7.188+/-0.628  $\chi^2$ /NDF:1578.0/14

# reg\_asym\_atl1\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 19.578+/-0.812  $\chi^2$ /NDF:478.5/15

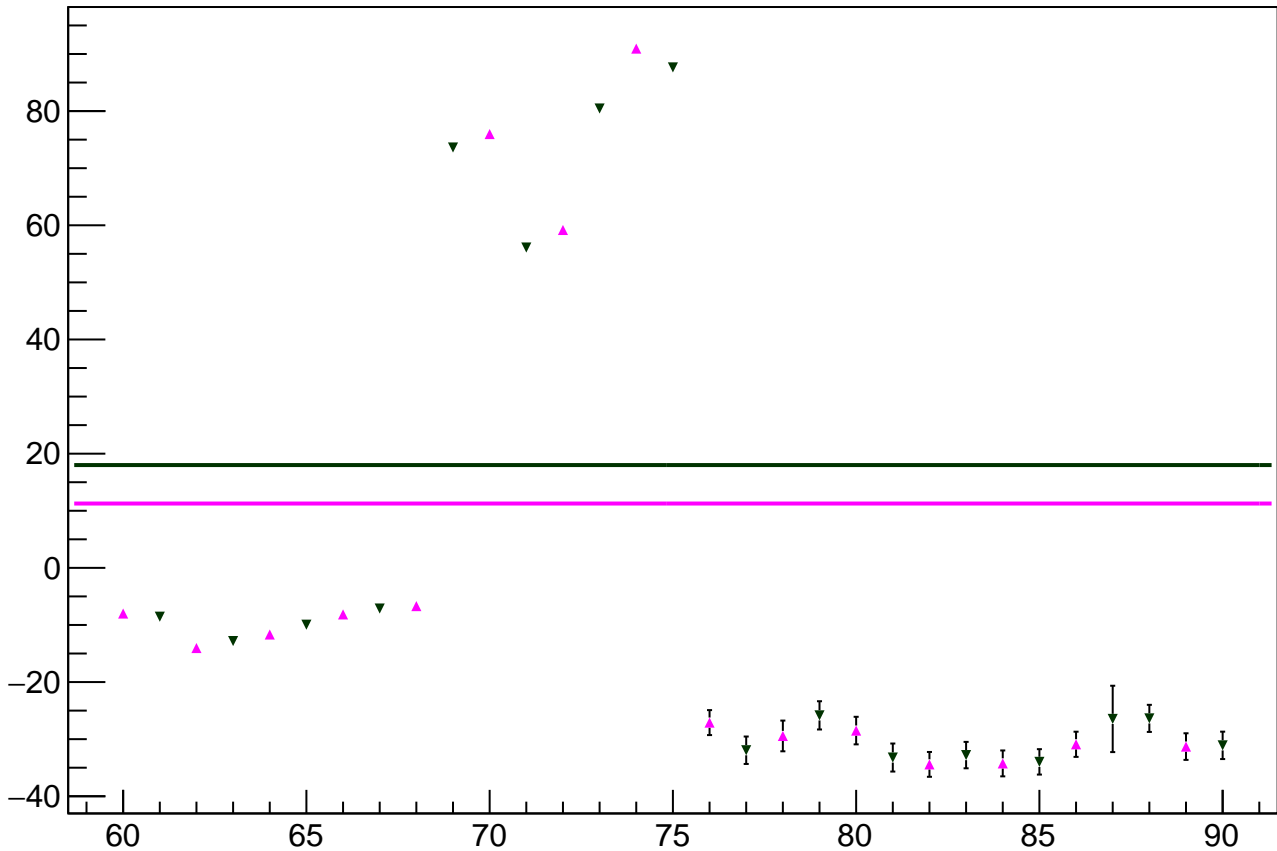
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 19.421+/-0.800  $\chi^2$ /NDF:262.6/14

19.578+/-0.812  $\chi^2$ /NDF: 478.5/15

19.421+/-0.800  $\chi^2$ /NDF: 262.6/14

# reg\_asym\_atl1\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

18.006+/-0.115  $\chi^2/\text{NDF}$ : 112684.6/15

Left Out: 18.006+/-0.115  $\chi^2/\text{NDF}$ : 112684.6/15

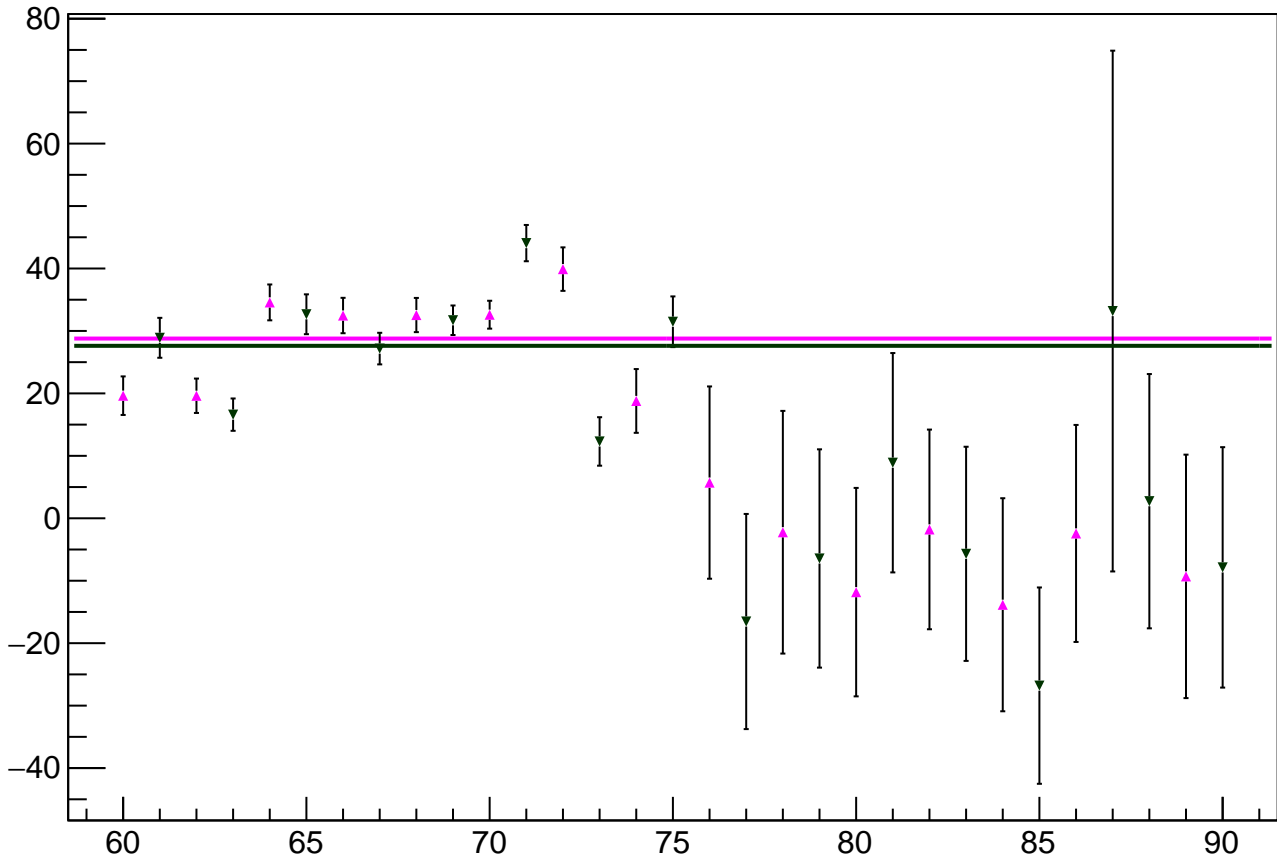
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

11.268+/-0.109  $\chi^2/\text{NDF}$ : 112290.7/14

Left In: 11.268+/-0.109  $\chi^2/\text{NDF}$ : 112290.7/14



# reg\_asym\_atl1\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 27.618+/-1.026  $\chi^2/\text{NDF}$ :104.5/15

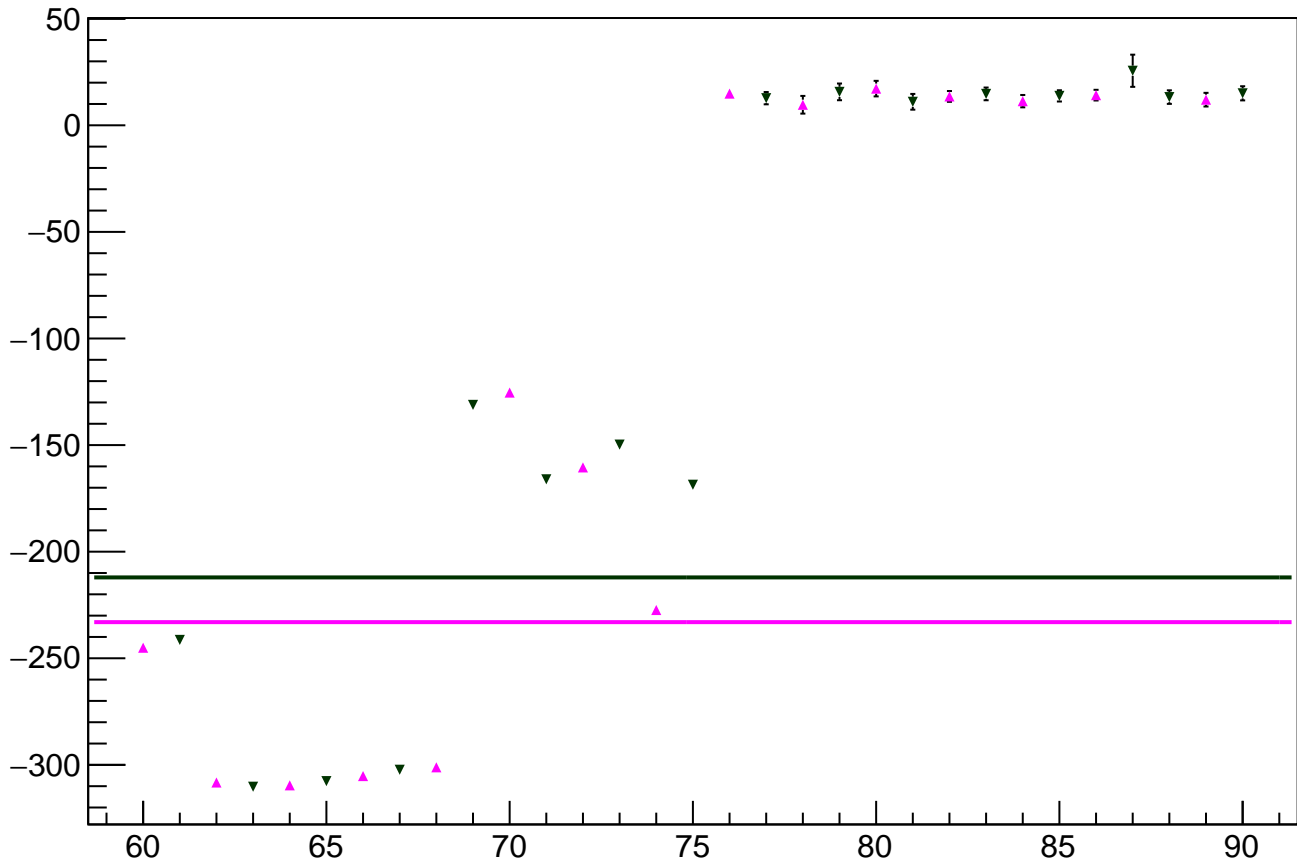
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 28.782+/-1.020  $\chi^2/\text{NDF}$ :72.1/14

27.618+/-1.026  $\chi^2/\text{NDF}$ : 104.5/15

28.782+/-1.020  $\chi^2/\text{NDF}$ : 72.1/14

# reg\_asym\_atl1\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -212.074+/-0.175  $\chi^2$ /NDF:210145.6/15

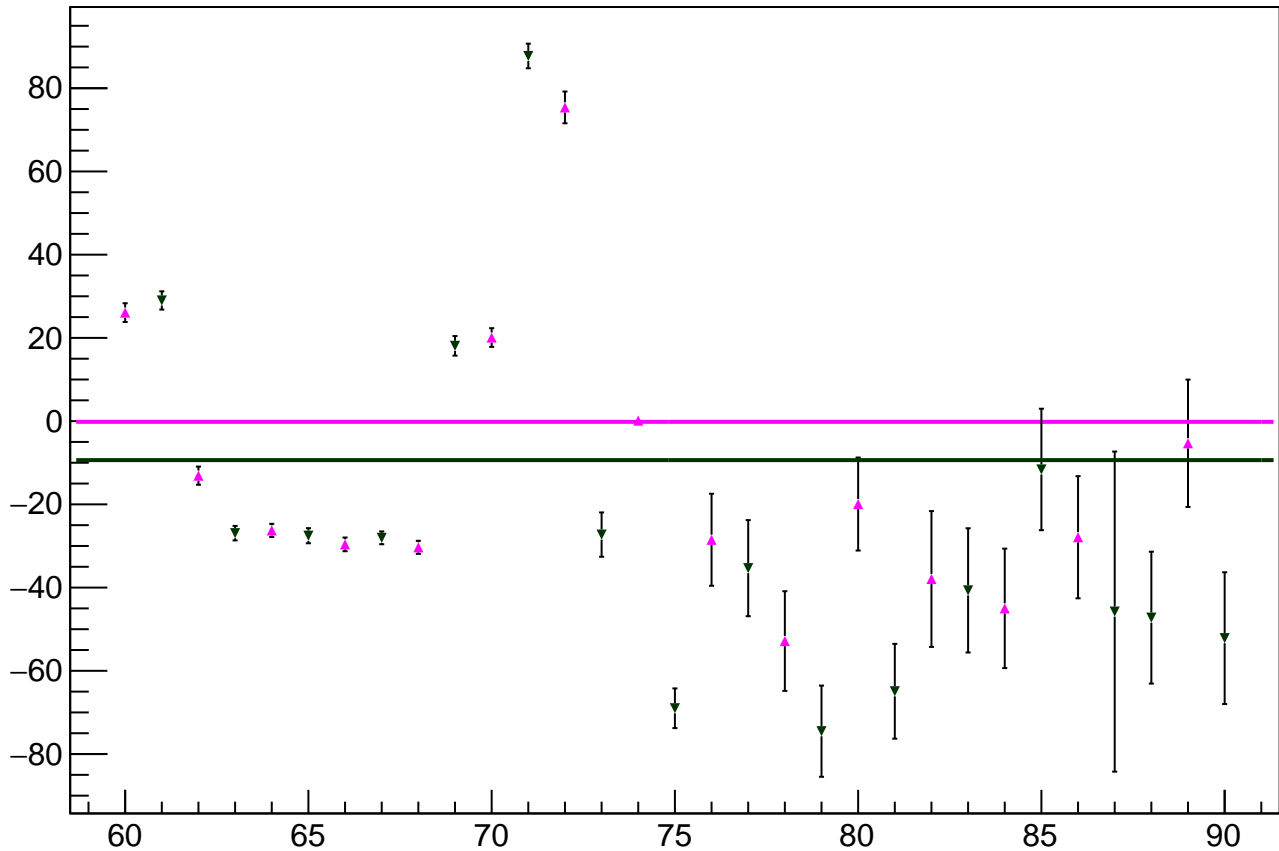
-212.074+/-0.175  $\chi^2$ /NDF: 210145.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -233.052+/-0.178  $\chi^2$ /NDF:218962.3/14

-233.052+/-0.178  $\chi^2$ /NDF: 218962.3/14

# reg\_asym\_atr2\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -9.371+/-0.772  $\chi^2$ /NDF:2120.4/15

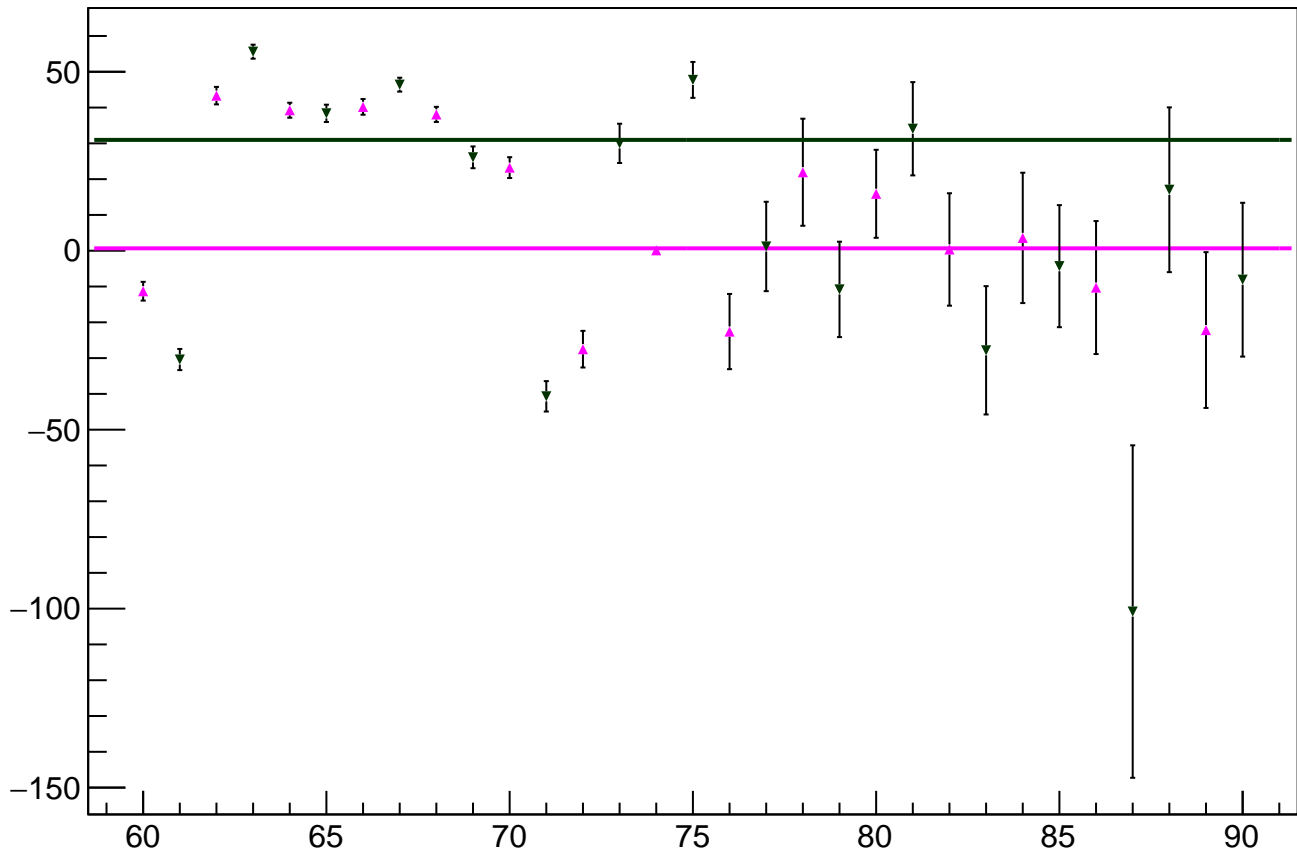
-9.371+/-0.772  $\chi^2$ /NDF: 2120.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.171+/-0.114  $\chi^2$ /NDF:1657.9/14

-0.171+/-0.114  $\chi^2$ /NDF: 1657.9/14

# reg\_asym\_atr2\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 30.969+/-0.964  $\chi^2/\text{NDF}$ :1002.3/15

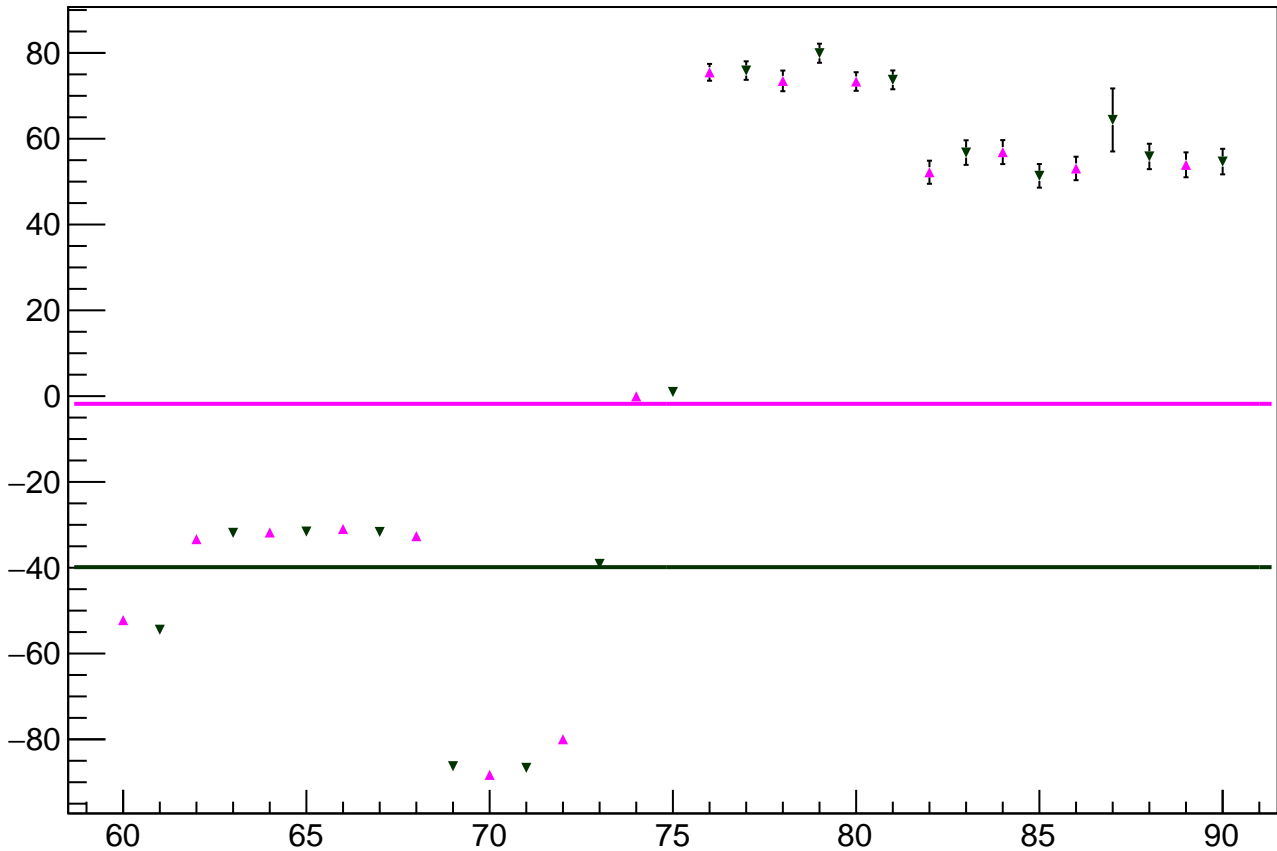
30.969+/-0.964  $\chi^2/\text{NDF}$ : 1002.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.668+/-0.129  $\chi^2/\text{NDF}$ : 1421.2/14

Left In: 0.668+/-0.129  $\chi^2/\text{NDF}$ :1421.2/14

# reg\_asym\_atr2\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-39.868+/-0.132  $\chi^2/\text{NDF}$ : 36055.2/15

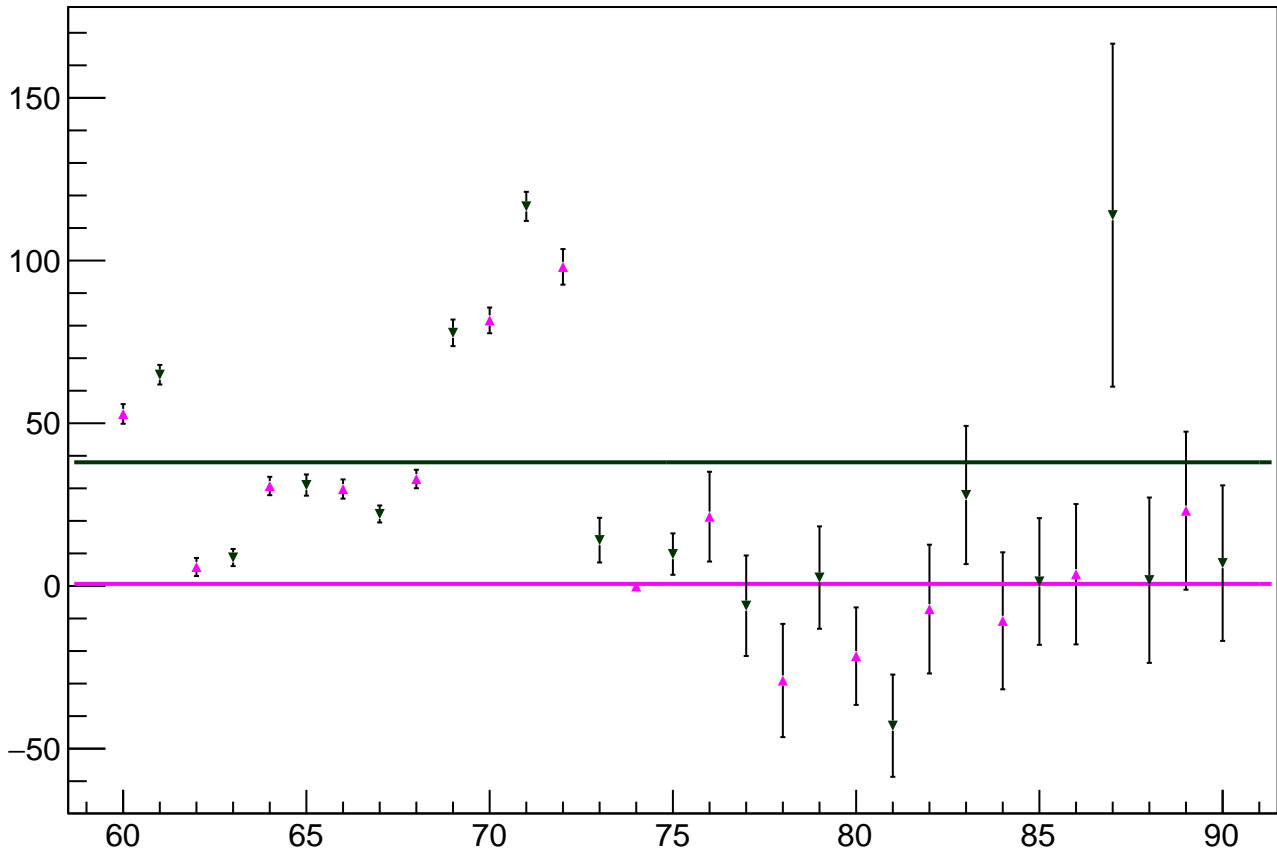
Left Out: -39.868+/-0.132  $\chi^2/\text{NDF}$ : 36055.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-1.795+/-0.026  $\chi^2/\text{NDF}$ : 121495.0/14

Left In: -1.795+/-0.026  $\chi^2/\text{NDF}$ : 121495.0/14

# reg\_asym\_atr2\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 38.004+/-1.220  $\chi^2$ /NDF:730.6/15

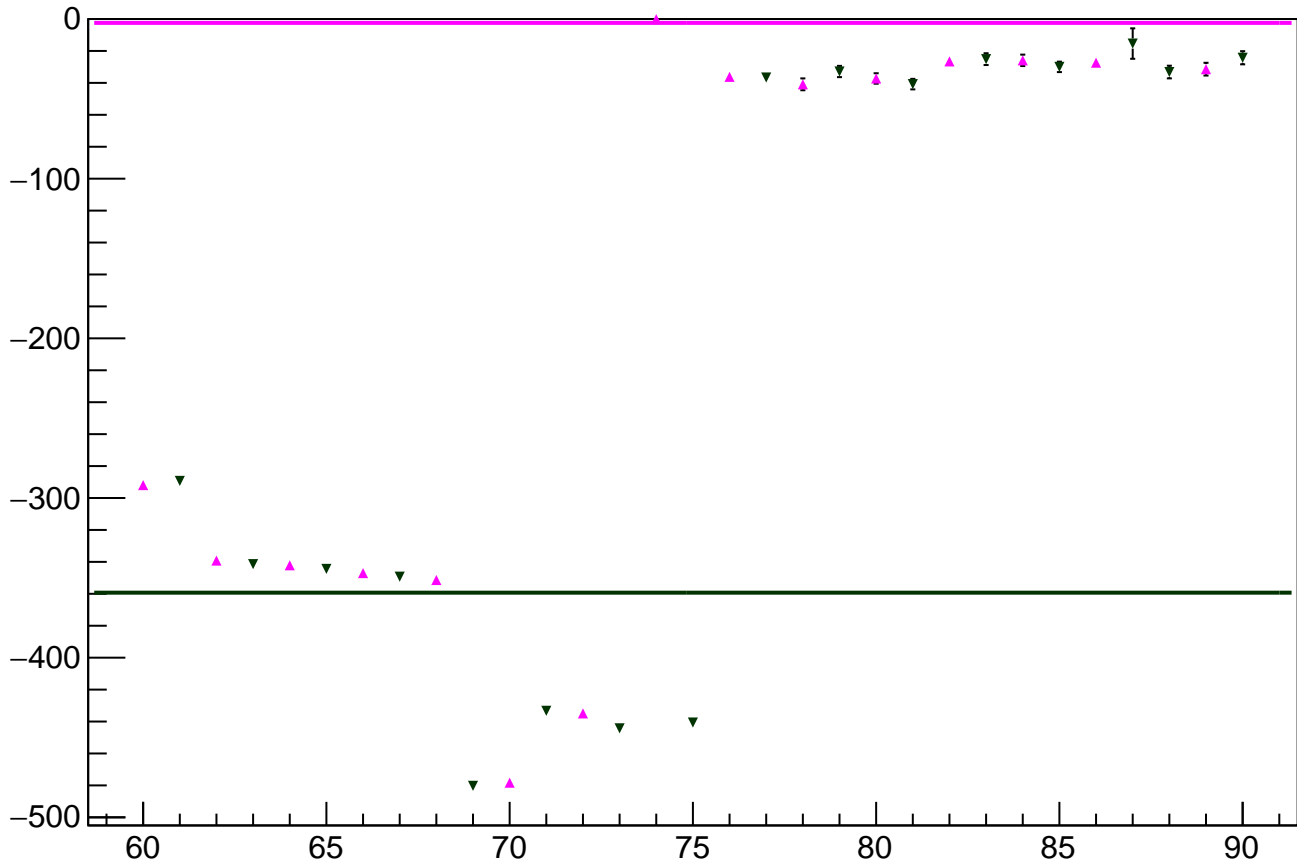
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.638+/-0.171  $\chi^2$ /NDF:1408.3/14

38.004+/-1.220  $\chi^2$ /NDF: 730.6/15

0.638+/-0.171  $\chi^2$ /NDF: 1408.3/14

# reg\_asym\_atr2\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -359.288+/-0.217  $\chi^2$ /NDF:137868.3/15

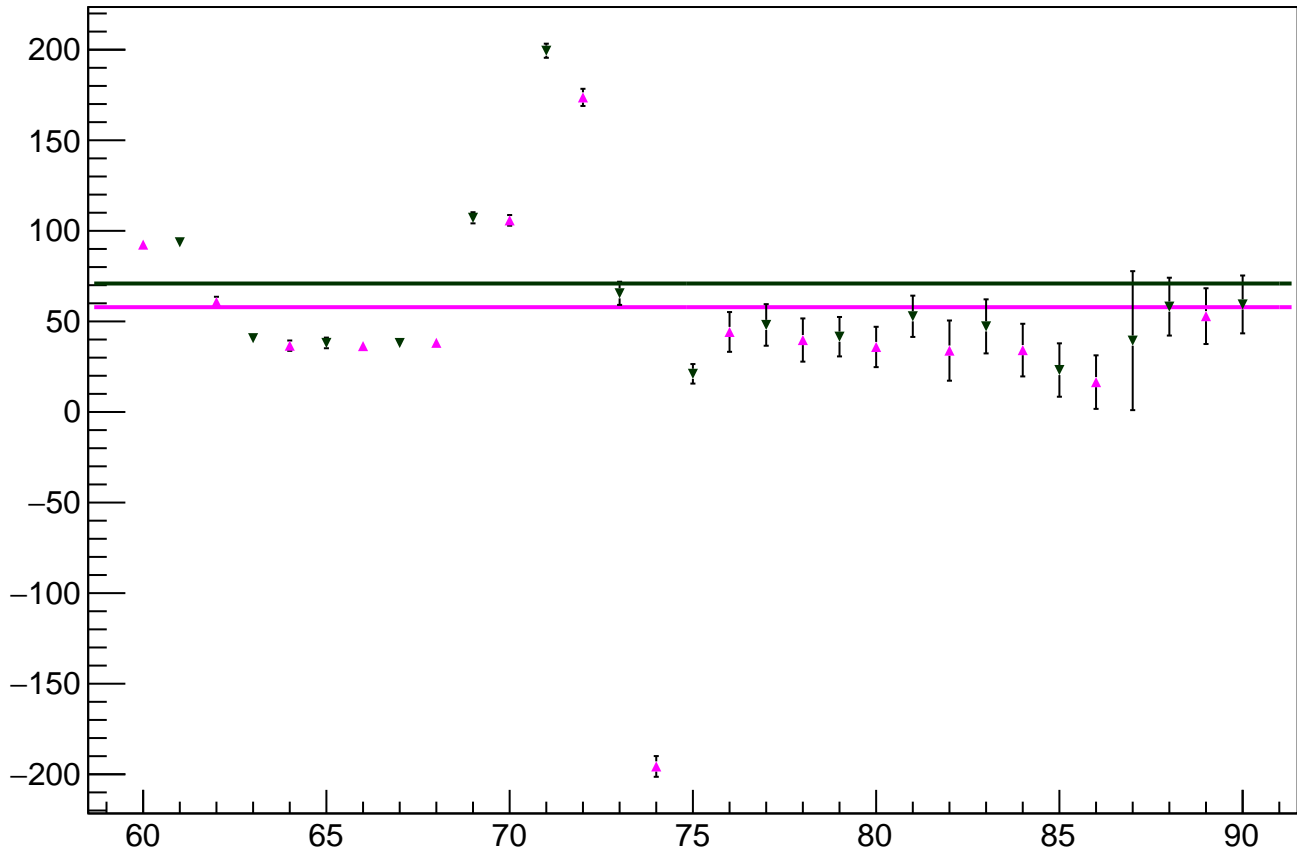
-359.288+/-0.217  $\chi^2$ /NDF: 137868.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-2.422+/-0.018  $\chi^2$ /NDF: 2658989.7/14

Left In: -2.422+/-0.018  $\chi^2$ /NDF:2658989.7/14

# reg\_asym\_atl2\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 70.925+/-1.081  $\chi^2$ /NDF:1851.6/15

70.925+/-1.081  $\chi^2$ /NDF: 1851.6/15

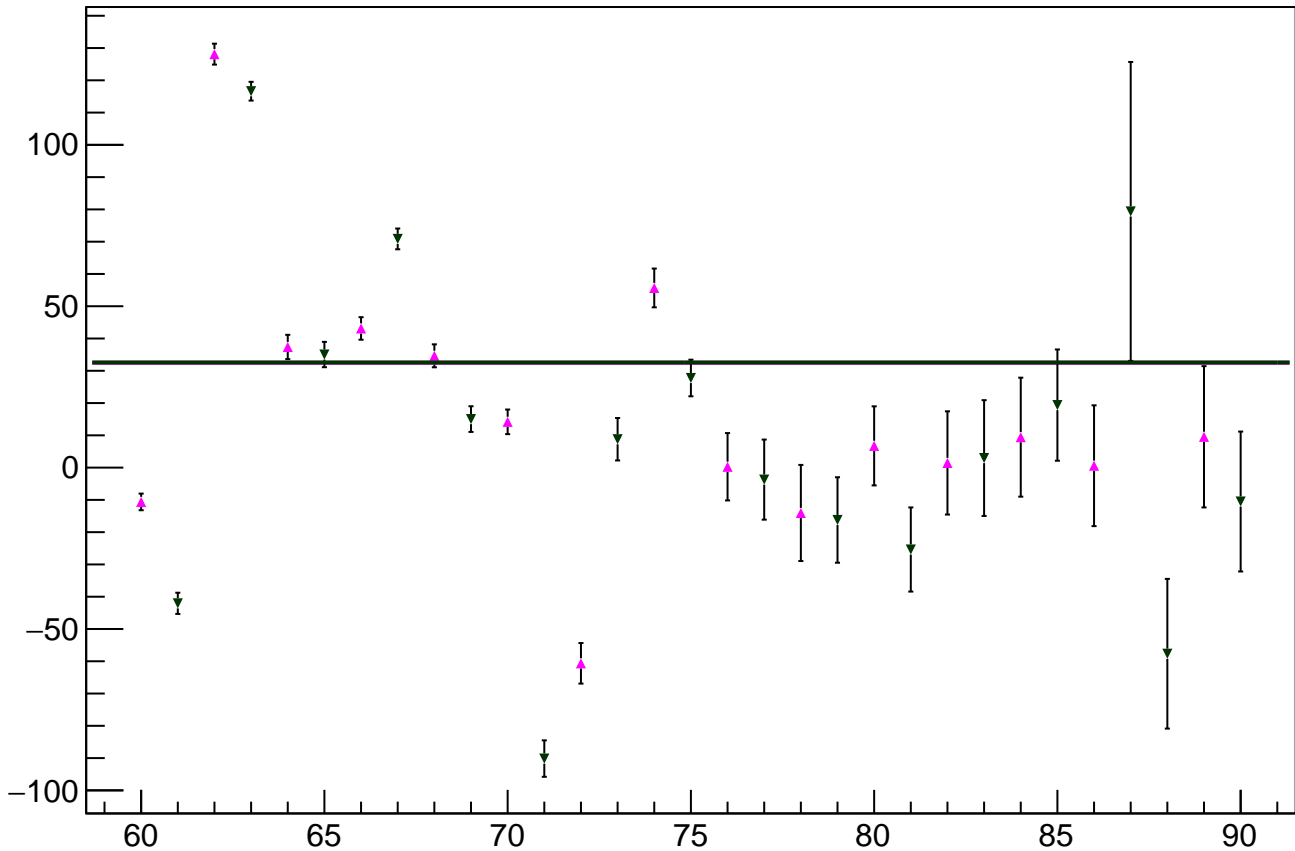
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

57.859+/-1.034  $\chi^2$ /NDF: 3235.1/14

Left In: 57.859+/-1.034  $\chi^2$ /NDF:3235.1/14



# reg\_asym\_atl2\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

32.574+/-1.348  $\chi^2$ /NDF: 2065.2/15

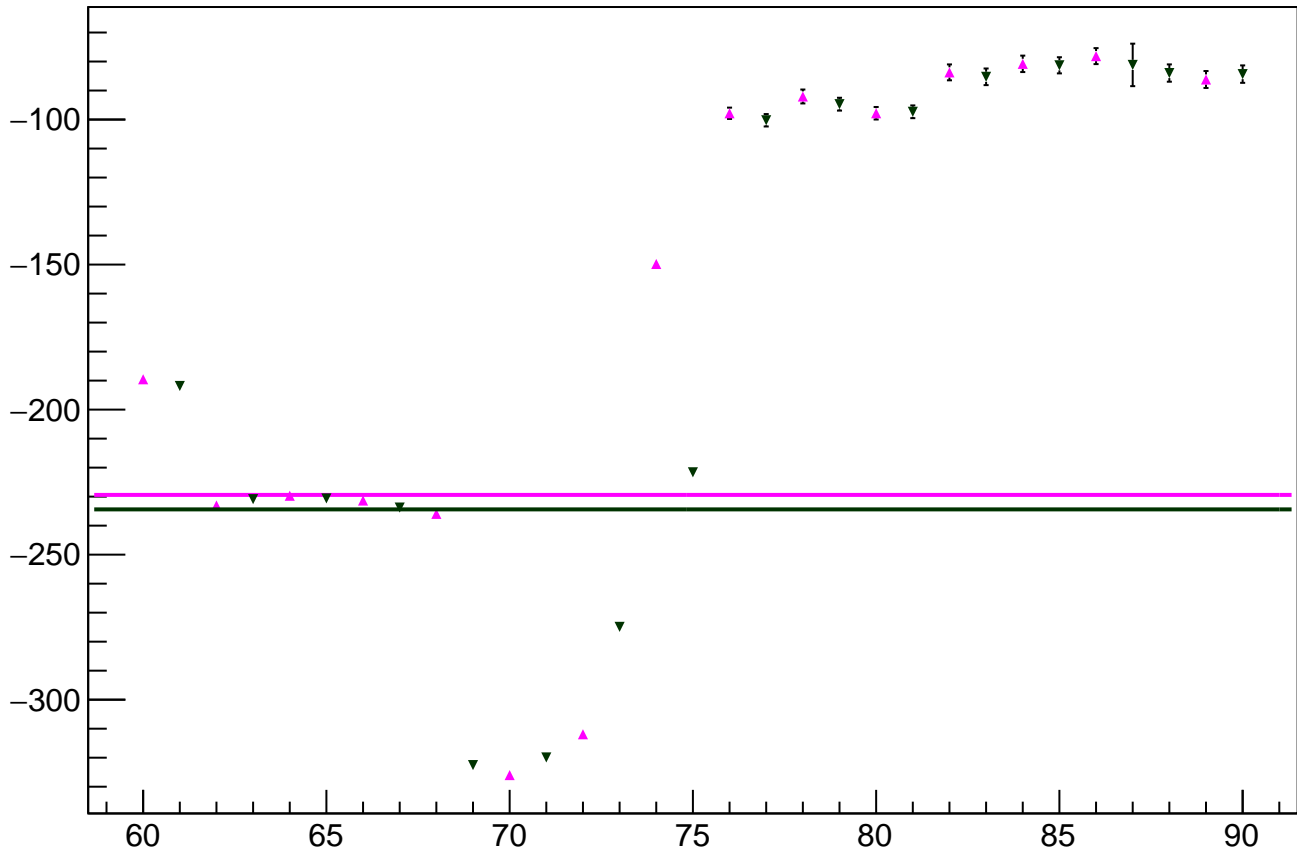
Left Out: 32.574+/-1.348  $\chi^2$ /NDF:2065.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

32.484+/-1.258  $\chi^2$ /NDF: 1451.8/14

Left In: 32.484+/-1.258  $\chi^2$ /NDF:1451.8/14

# reg\_asym\_atl2\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -234.399+/-0.190  $\chi^2$ /NDF:68639.9/15

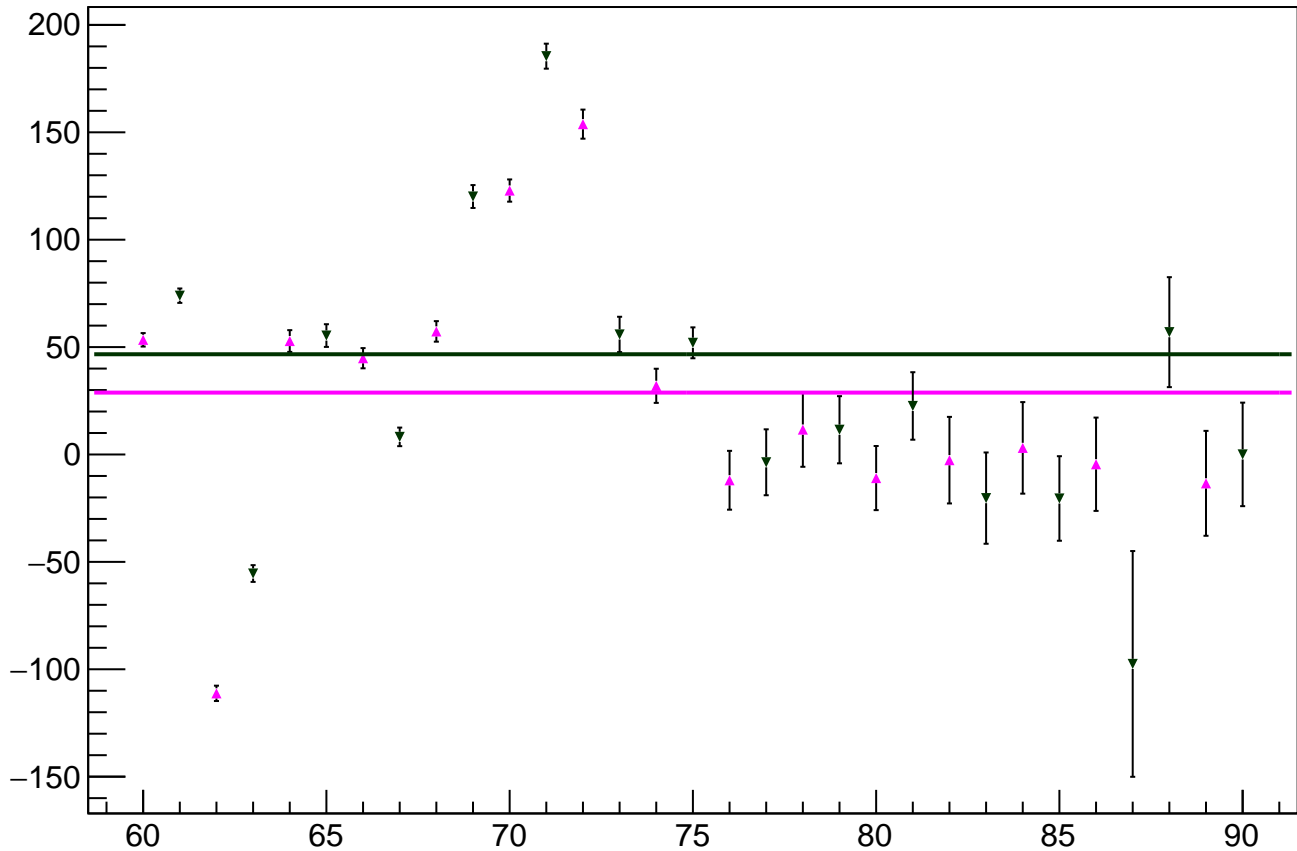
-234.399+/-0.190  $\chi^2$ /NDF: 68639.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -229.406+/-0.178  $\chi^2$ /NDF:70119.1/14

-229.406+/-0.178  $\chi^2$ /NDF: 70119.1/14

# reg\_asym\_atl2\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

46.668+/-1.659  $\chi^2$ /NDF: 1643.7/15

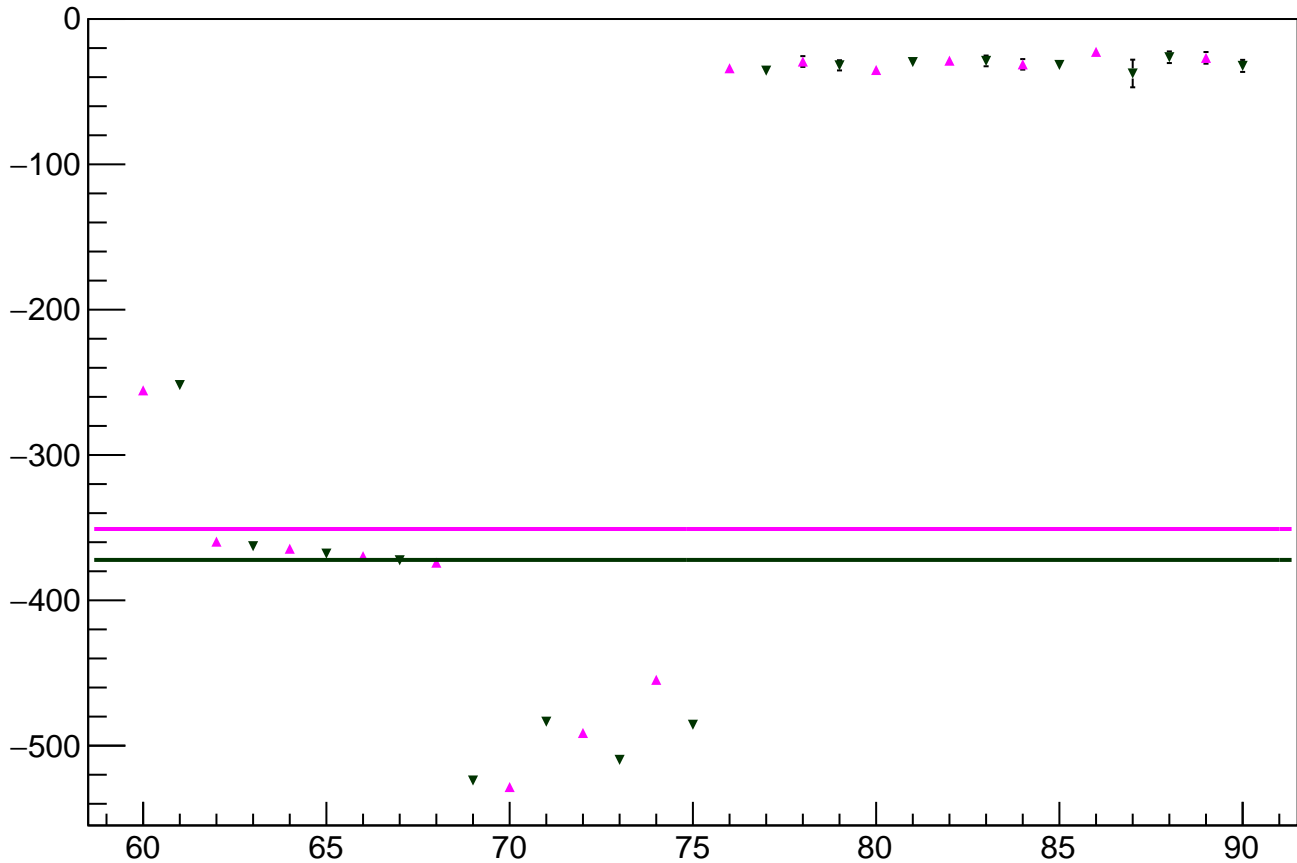
Left Out: 46.668+/-1.659  $\chi^2$ /NDF:1643.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

28.812+/-1.572  $\chi^2$ /NDF: 2363.8/14

Left In: 28.812+/-1.572  $\chi^2$ /NDF:2363.8/14

# reg\_asym\_atl2\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -372.191+/-0.292  $\chi^2$ /NDF:175479.5/15

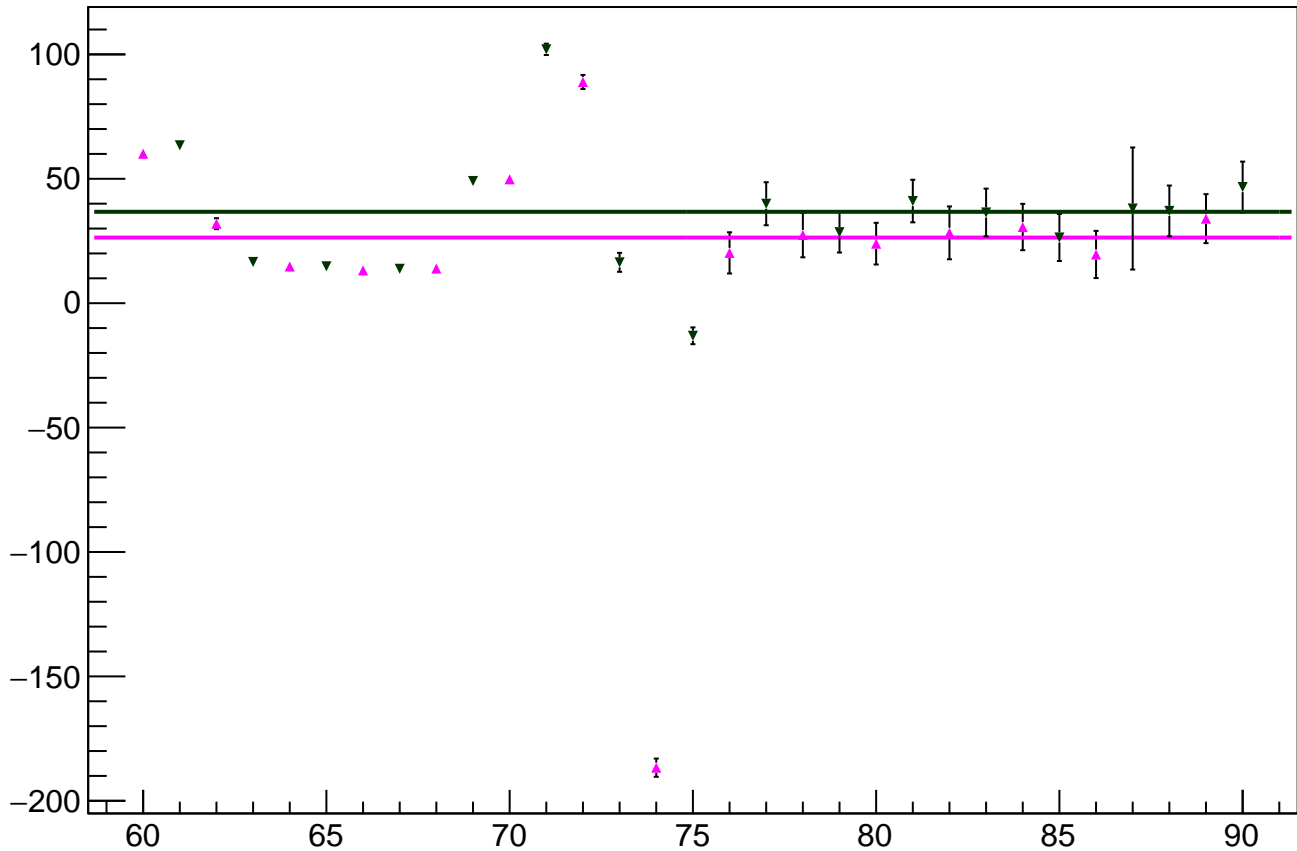
-372.191+/-0.292  $\chi^2$ /NDF: 175479.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -350.914+/-0.278  $\chi^2$ /NDF:173936.3/14

-350.914+/-0.278  $\chi^2$ /NDF: 173936.3/14

# reg\_asym\_atl\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 36.734+/-0.705  $\chi^2/\text{NDF}$ :1784.7/15

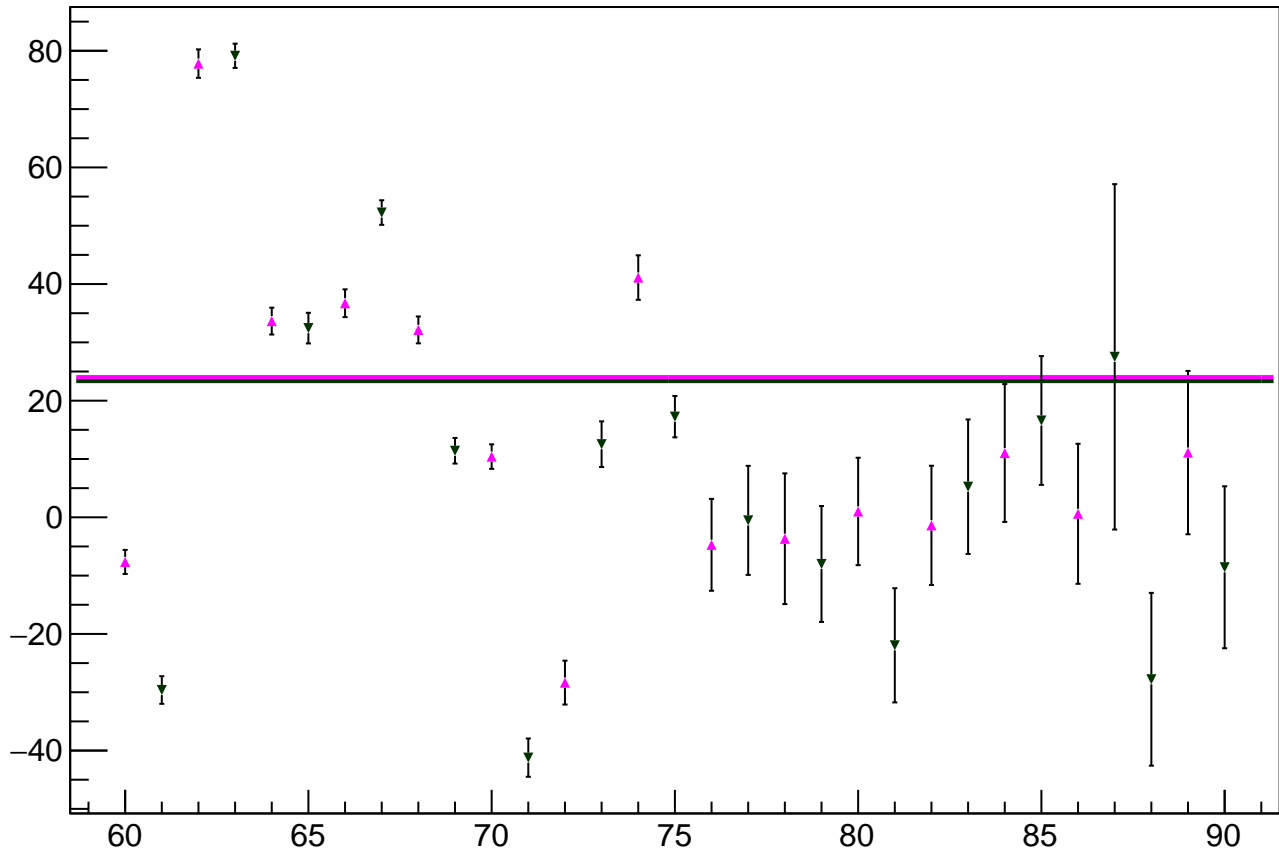
36.734+/-0.705  $\chi^2/\text{NDF}$ : 1784.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

26.374+/-0.682  $\chi^2/\text{NDF}$ : 4570.8/14

Left In: 26.374+/-0.682  $\chi^2/\text{NDF}$ :4570.8/14

# reg\_asym\_atl\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 23.351+/-0.883  $\chi^2$ /NDF:1905.3/15

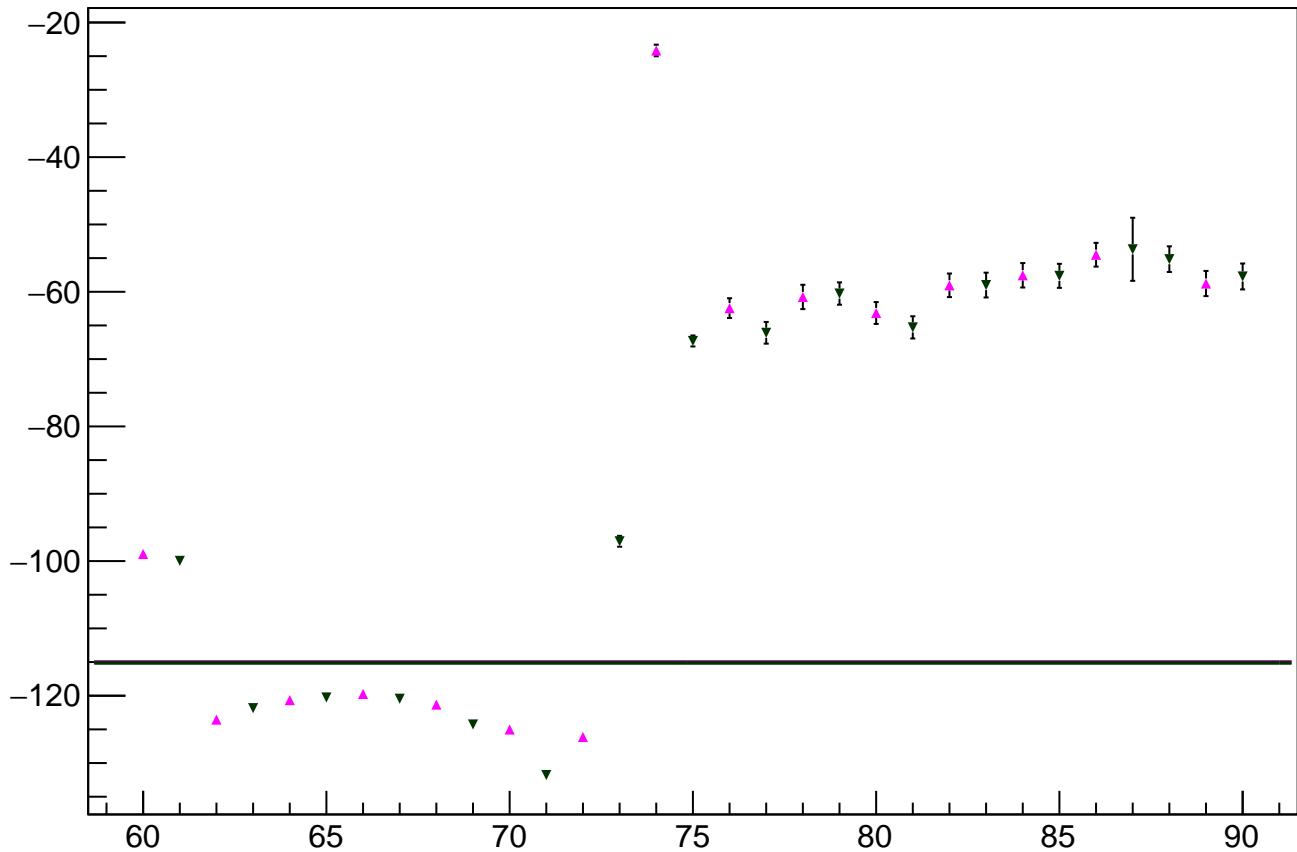
23.351+/-0.883  $\chi^2$ /NDF: 1905.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

24.047+/-0.850  $\chi^2$ /NDF: 1071.4/14

Left In: 24.047+/-0.850  $\chi^2$ /NDF:1071.4/14

# reg\_asym\_atl\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -115.098+/-0.125  $\chi^2$ /NDF:16648.9/15

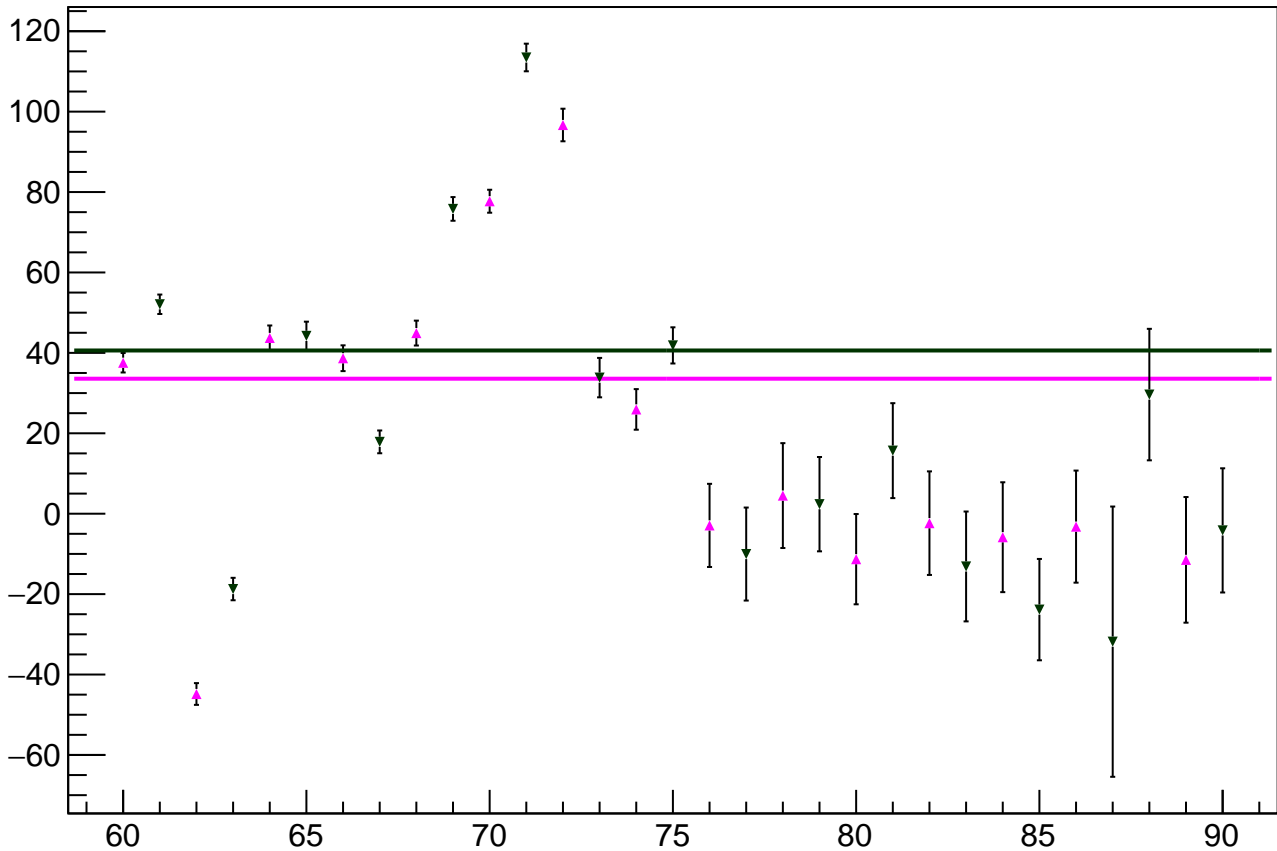
-115.098+/-0.125  $\chi^2$ /NDF: 16648.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -115.010+/-0.118  $\chi^2$ /NDF:23900.8/14

-115.010+/-0.118  $\chi^2$ /NDF: 23900.8/14

# reg\_asym\_atl\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.595+/-1.093  $\chi^2/\text{NDF}$ :1224.7/15

40.595+/-1.093  $\chi^2/\text{NDF}$ : 1224.7/15

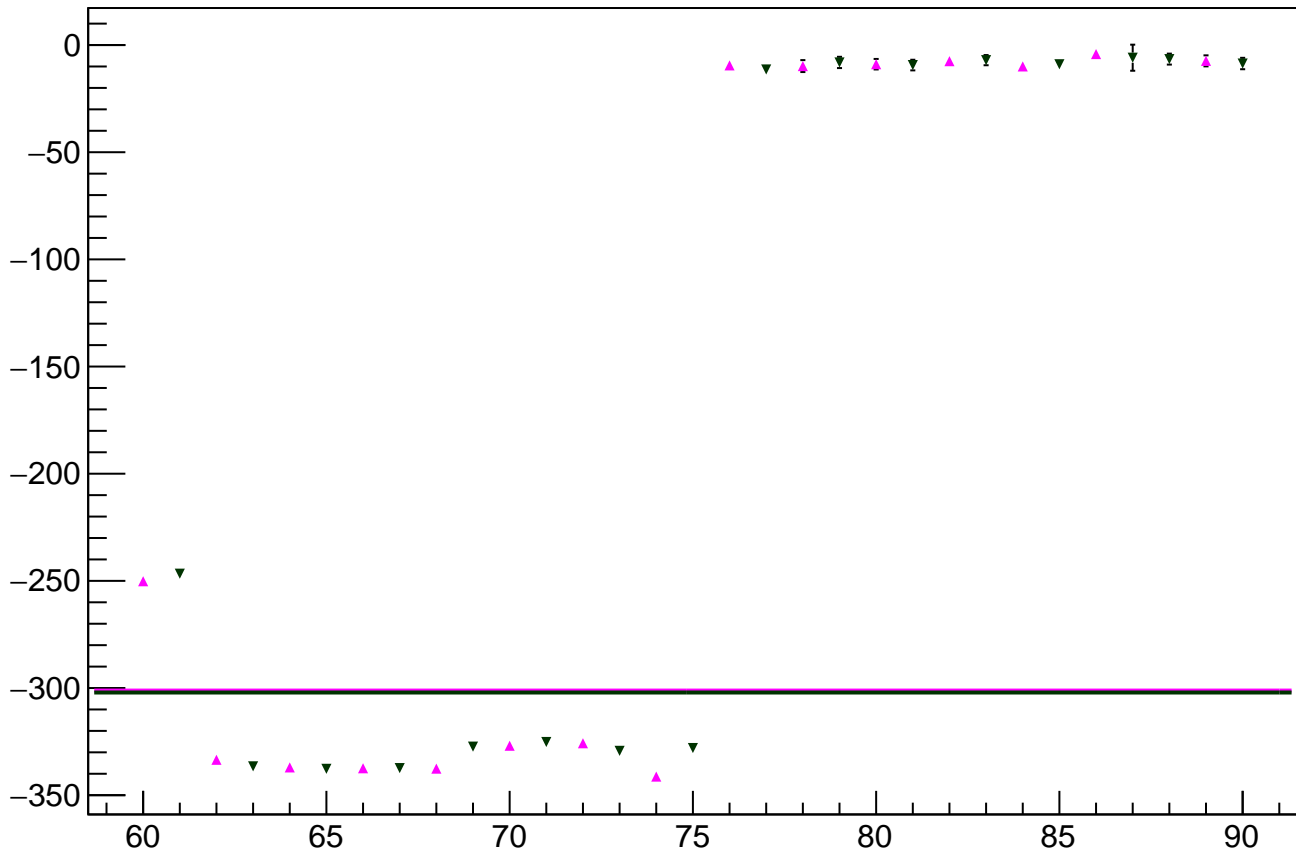
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 33.576+/-1.066  $\chi^2/\text{NDF}$ :1417.6/14

33.576+/-1.066  $\chi^2/\text{NDF}$ : 1417.6/14



# reg\_asym\_atl\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-302.087+/-0.191  $\chi^2$ /NDF: 145318.6/15

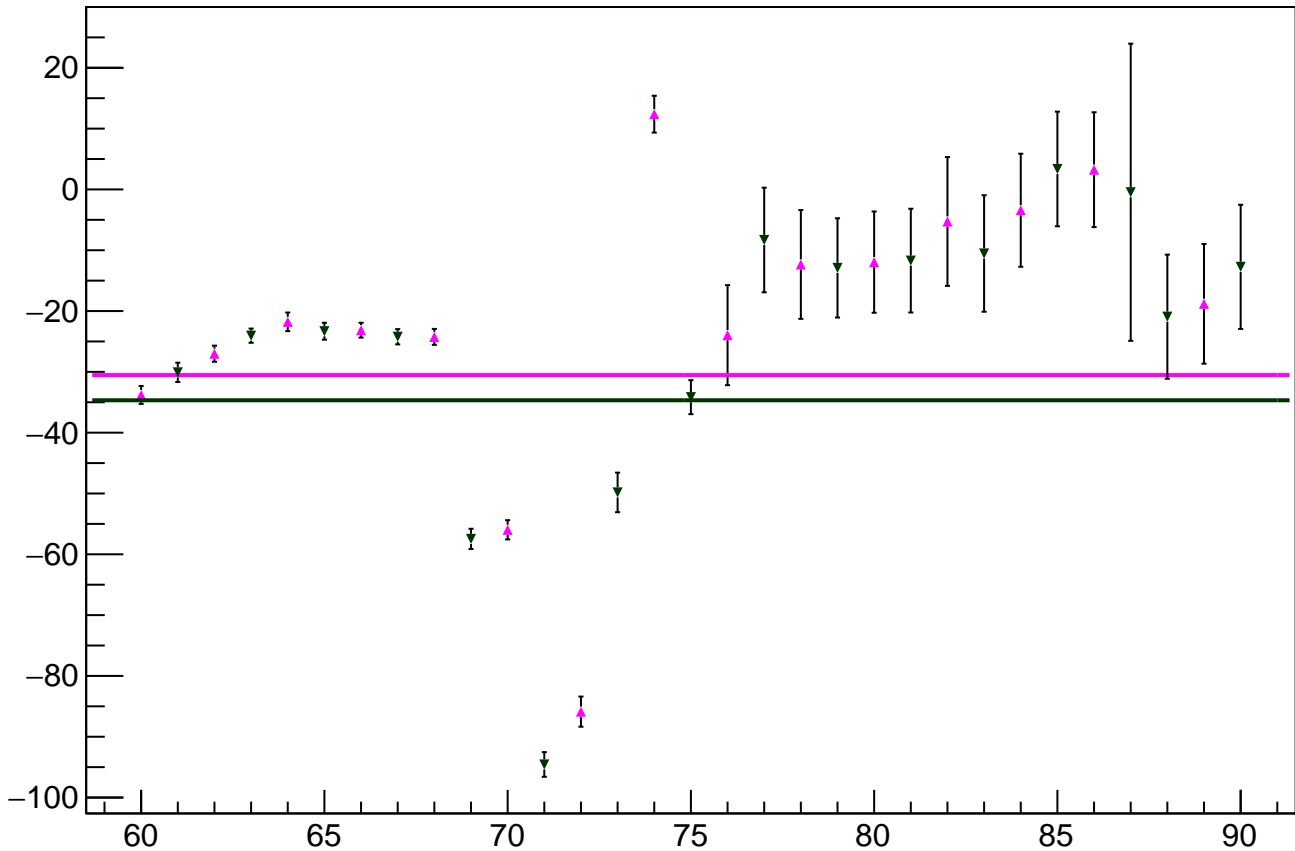
Left Out: -302.087+/-0.191  $\chi^2$ /NDF: 145318.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-301.184+/-0.187  $\chi^2$ /NDF: 170476.9/14

Left In: -301.184+/-0.187  $\chi^2$ /NDF: 170476.9/14

# reg\_asym\_atl\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -34.674+/-0.560  $\chi^2$ /NDF:1362.1/15

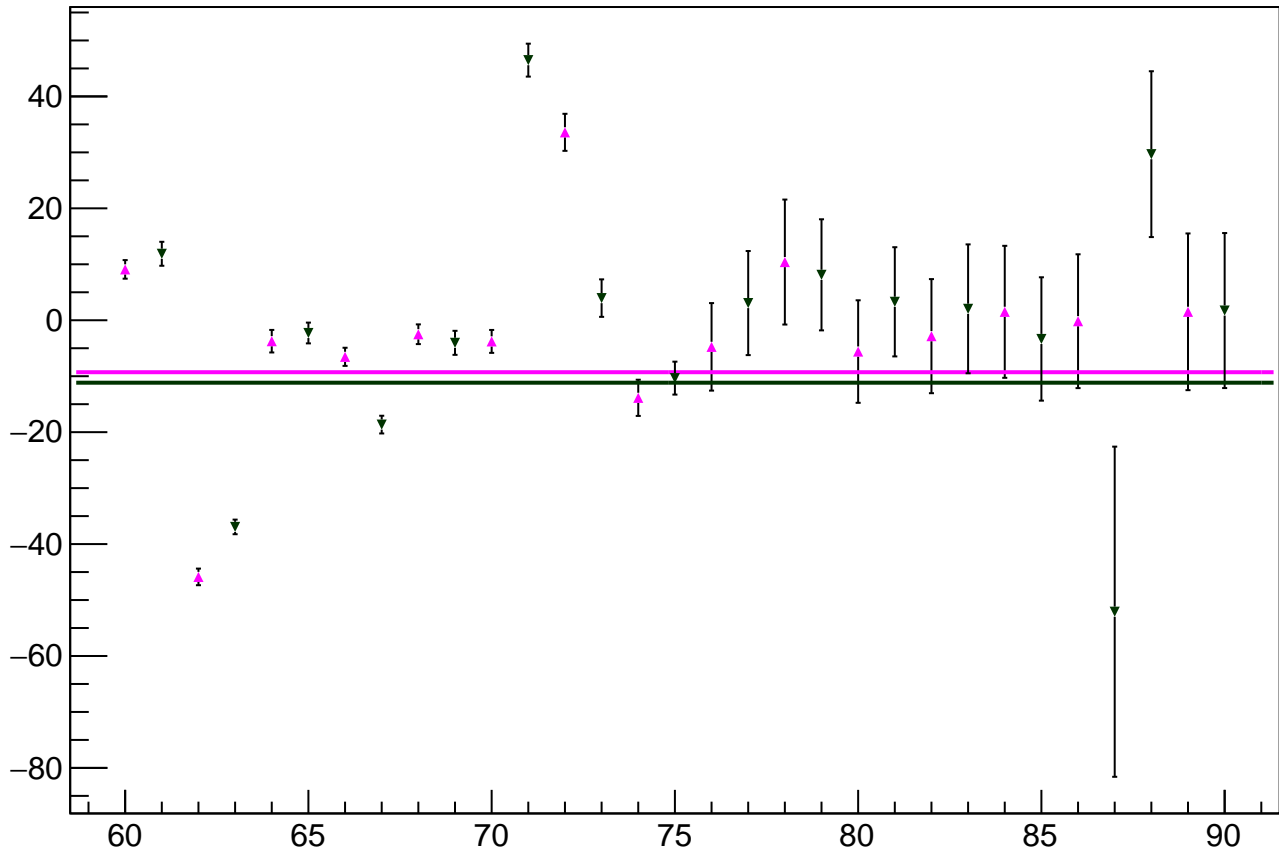
-34.674+/-0.560  $\chi^2$ /NDF: 1362.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -30.529+/-0.537  $\chi^2$ /NDF:1100.0/14

-30.529+/-0.537  $\chi^2$ /NDF: 1100.0/14

# reg\_asym\_atl\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -11.161+/-0.692  $\chi^2/\text{NDF}$ : 986.5/15

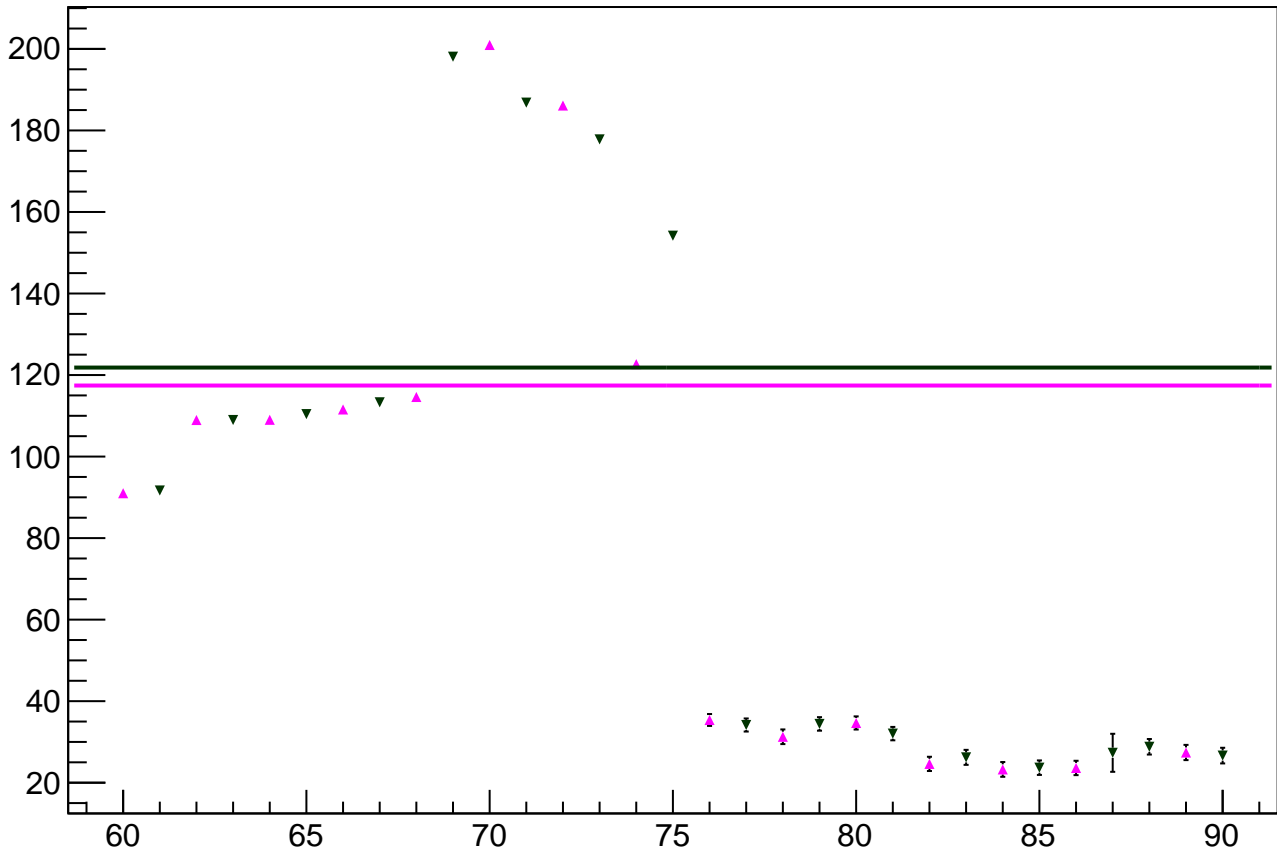
-11.161+/-0.692  $\chi^2/\text{NDF}$ : 986.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -9.287+/-0.666  $\chi^2/\text{NDF}$ : 937.8/14

-9.287+/-0.666  $\chi^2/\text{NDF}$ : 937.8/14

# reg\_asym\_atl\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 121.834+/-0.098  $\chi^2/\text{NDF}$ : 132125.7/15

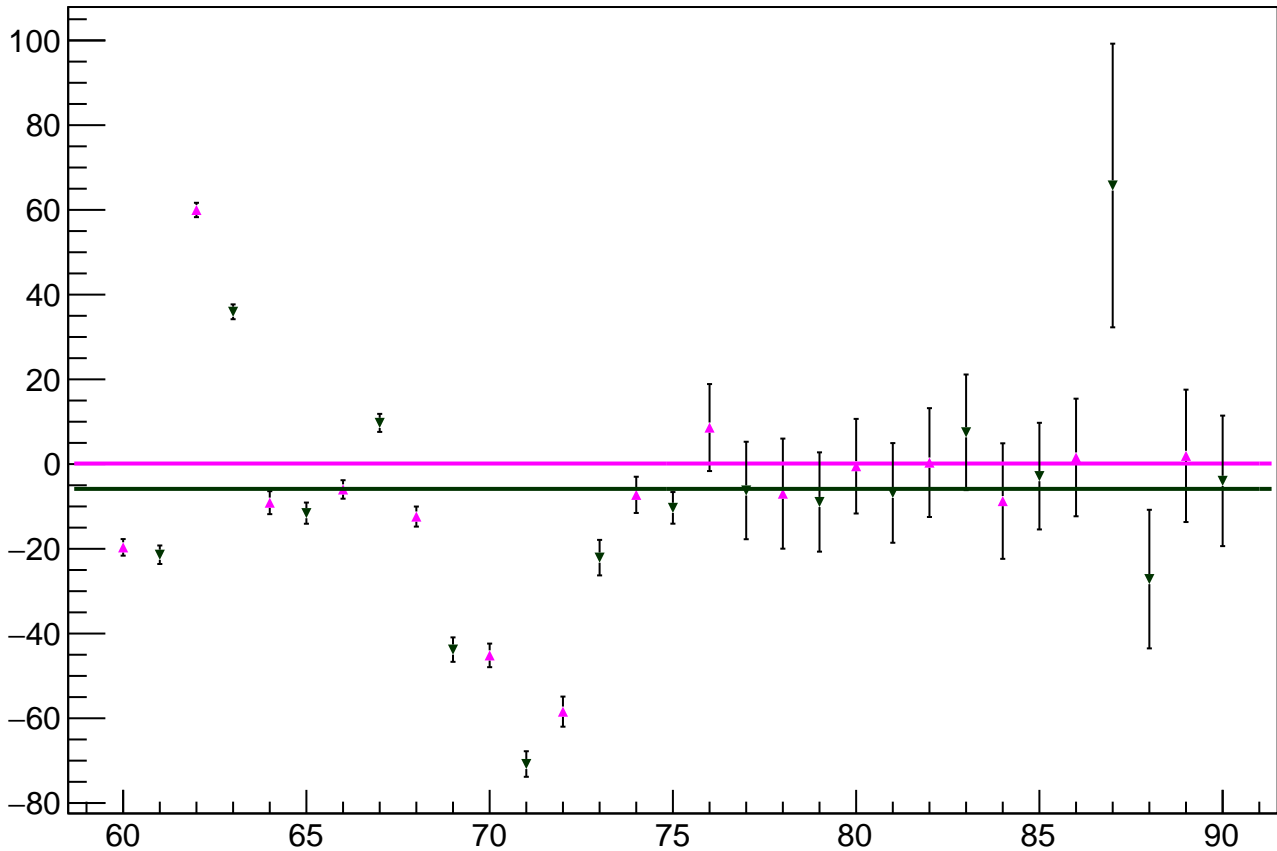
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 117.426+/-0.092  $\chi^2/\text{NDF}$ : 122231.2/14

121.834+/-0.098  $\chi^2/\text{NDF}$ : 132125.7/15

117.426+/-0.092  $\chi^2/\text{NDF}$ : 122231.2/14

# reg\_asym\_atl\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5.854+/-0.871  $\chi^2$ /NDF:1338.9/15

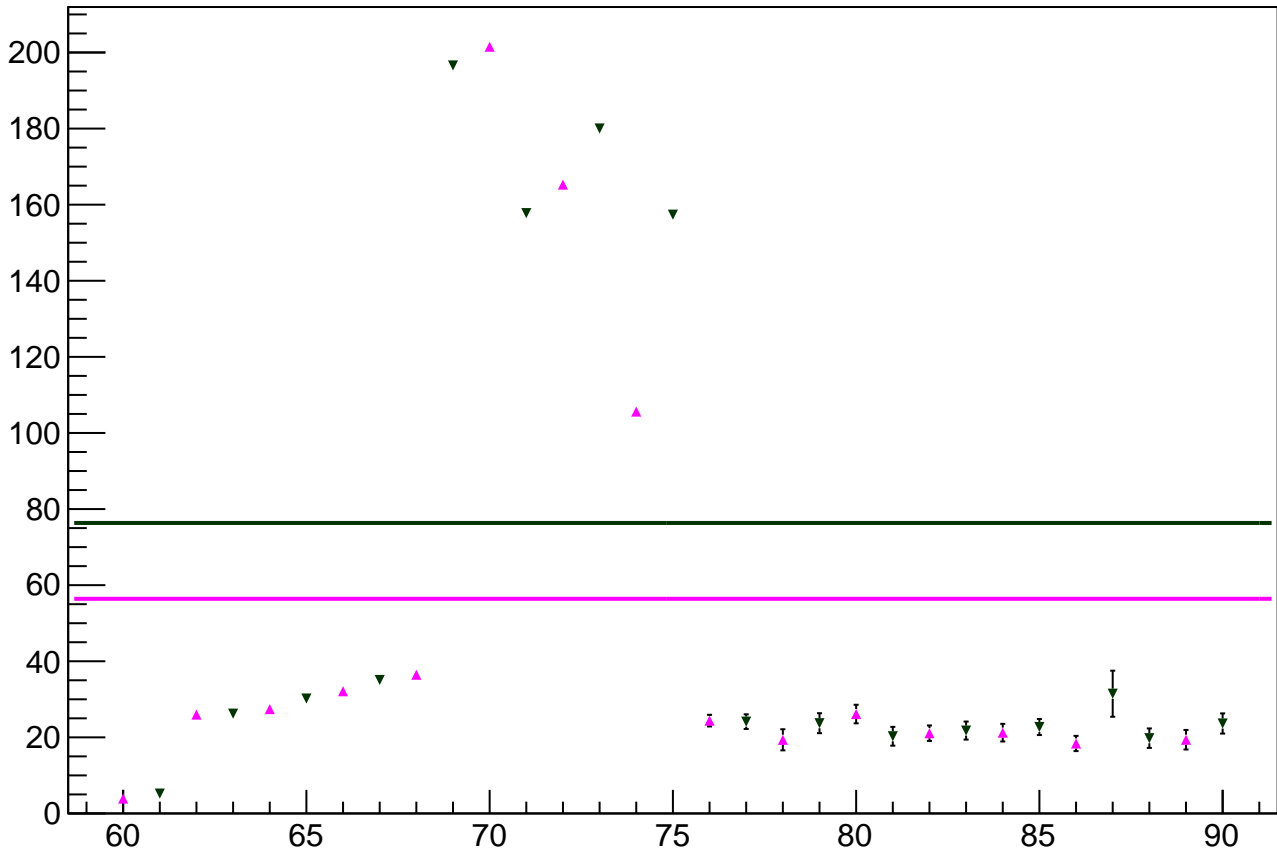
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.130+/-0.833  $\chi^2$ /NDF:1937.1/14

-5.854+/-0.871  $\chi^2$ /NDF: 1338.9/15

0.130+/-0.833  $\chi^2$ /NDF: 1937.1/14

# reg\_asym\_atl\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 76.352+/-0.152  $\chi^2/\text{NDF}$ : 220460.6/15

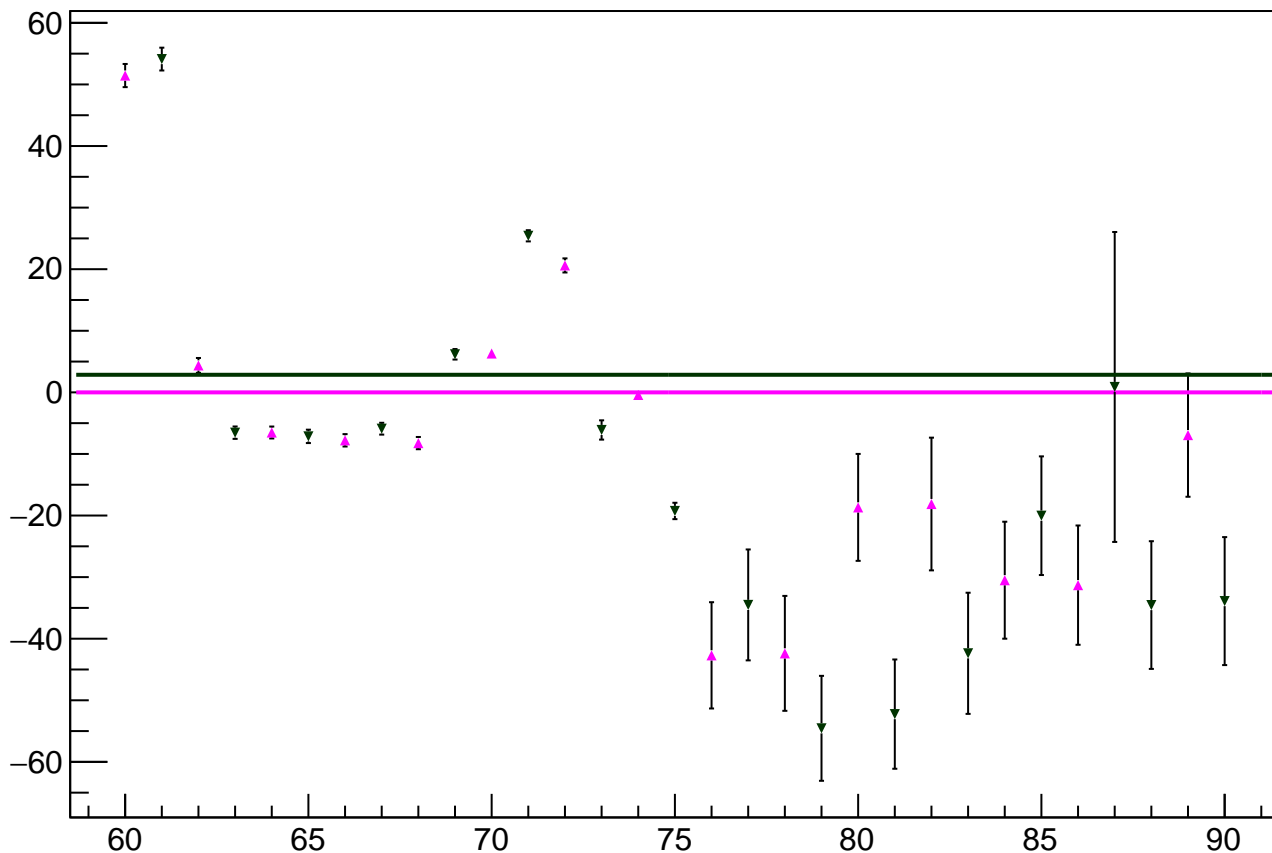
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 56.413+/-0.147  $\chi^2/\text{NDF}$ : 173131.8/14

76.352+/-0.152  $\chi^2/\text{NDF}$ : 220460.6/15

56.413+/-0.147  $\chi^2/\text{NDF}$ : 173131.8/14

# reg\_asym\_atr\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.855+/-0.382  $\chi^2/\text{NDF}$ : 2113.9/15

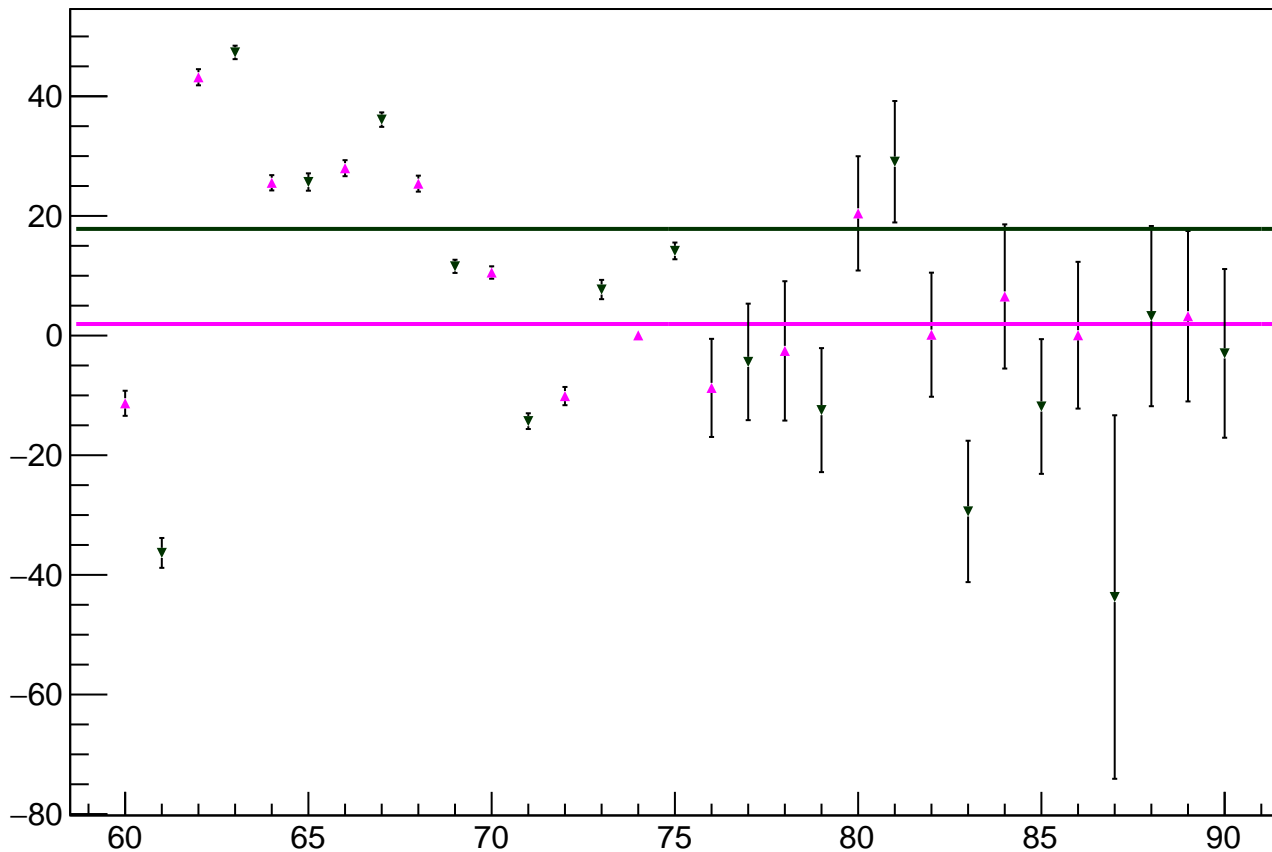
2.855+/-0.382  $\chi^2/\text{NDF}$ : 2113.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -0.002+/-0.142  $\chi^2/\text{NDF}$ : 1402.7/14

-0.002+/-0.142  $\chi^2/\text{NDF}$ : 1402.7/14

# reg\_asym\_atr\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 17.830+/-0.474  $\chi^2$ /NDF:2134.0/15

17.830+/-0.474  $\chi^2$ /NDF: 2134.0/15

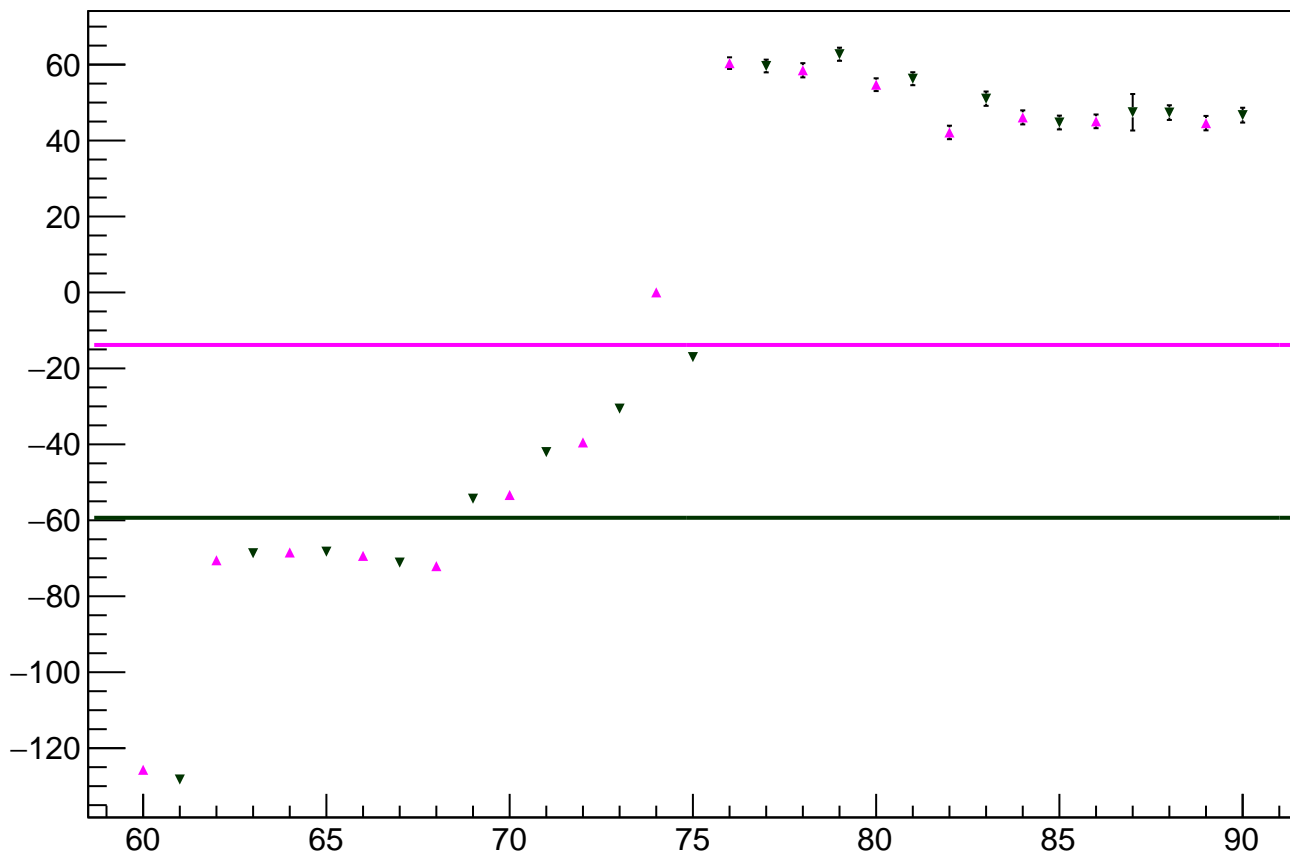
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.933+/-0.162  $\chi^2$ /NDF:2259.6/14

1.933+/-0.162  $\chi^2$ /NDF: 2259.6/14



# reg\_asym\_atr\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -59.334+/-0.069  $\chi^2$ /NDF:117790.9/15

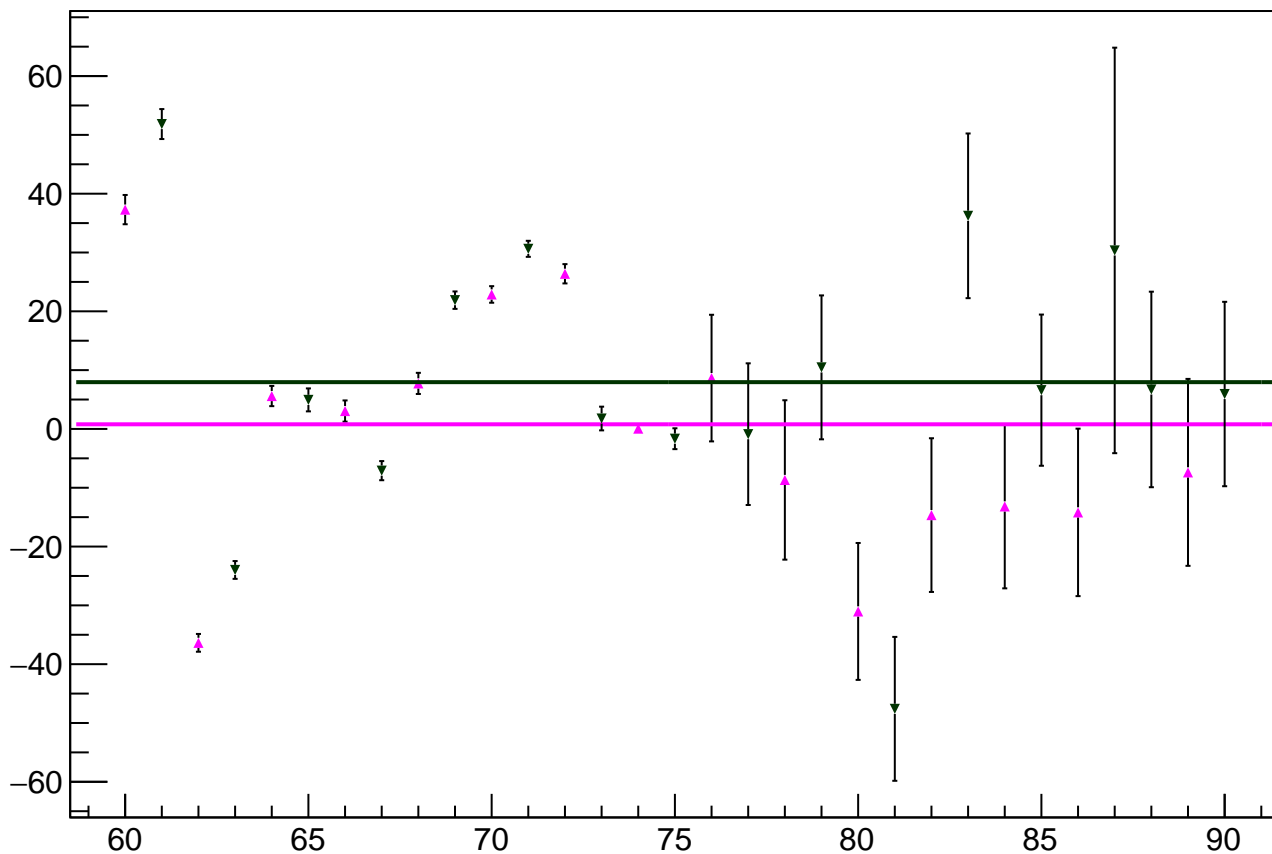
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -13.824+/-0.032  $\chi^2$ /NDF:800985.4/14

-59.334+/-0.069  $\chi^2$ /NDF: 117790.9/15

-13.824+/-0.032  $\chi^2$ /NDF: 800985.4/14

# reg\_asym\_atr\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 7.956+/-0.595  $\chi^2$ /NDF:1259.6/15

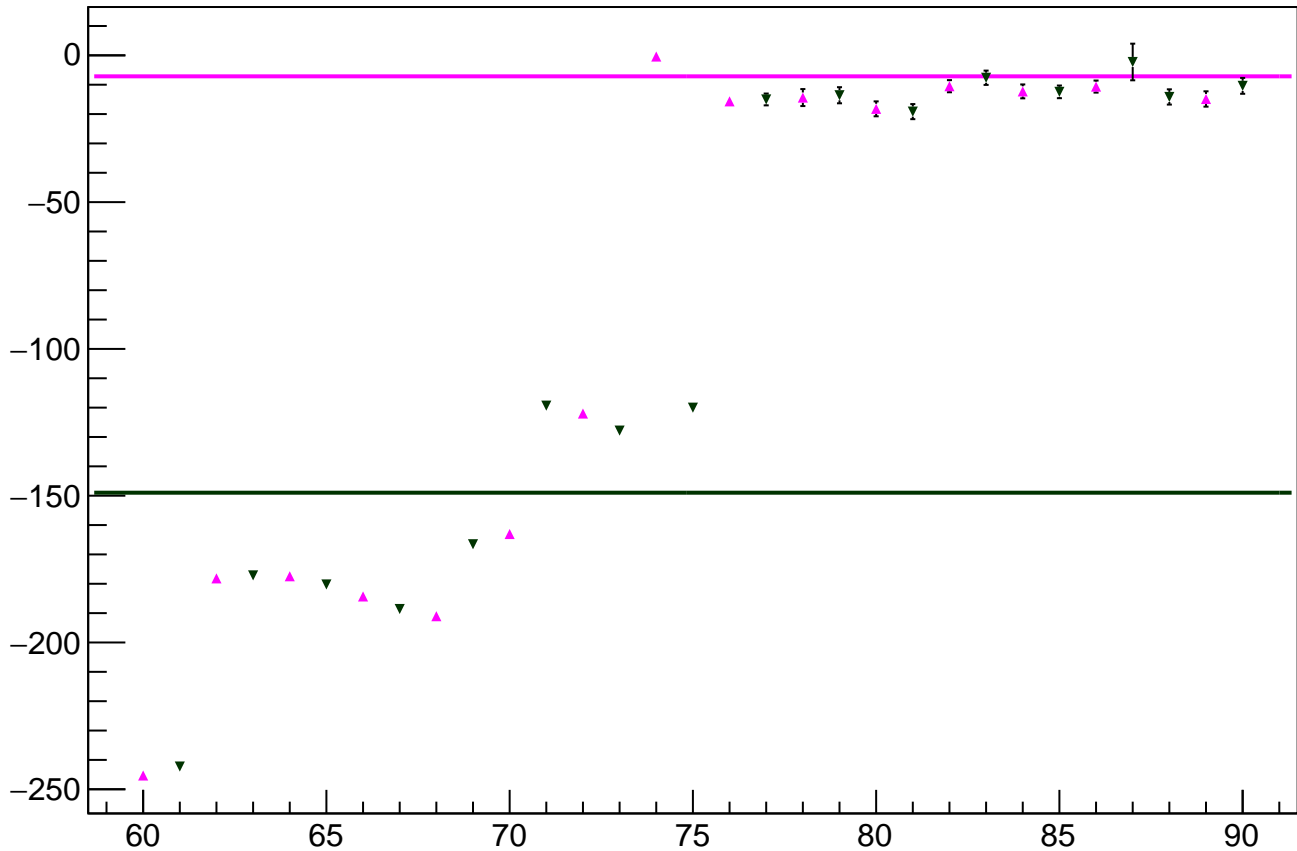
7.956+/-0.595  $\chi^2$ /NDF: 1259.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.789+/-0.214  $\chi^2$ /NDF:1355.2/14

0.789+/-0.214  $\chi^2$ /NDF: 1355.2/14

# reg\_asym\_atr\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -148.977+/-0.098  $\chi^2$ /NDF:138499.7/15

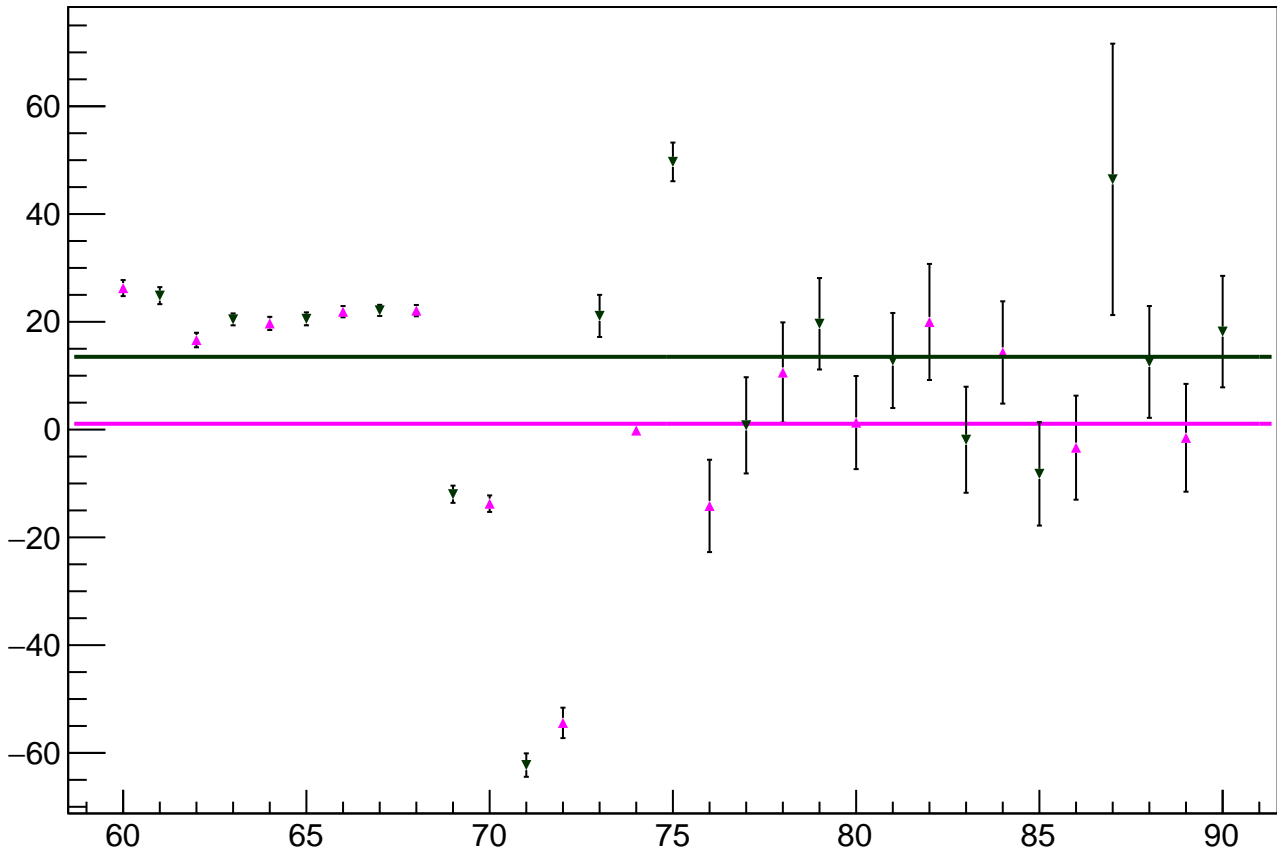
-148.977+/-0.098  $\chi^2$ /NDF: 138499.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-7.148+/-0.023  $\chi^2$ /NDF: 2147423.4/14

Left In: -7.148+/-0.023  $\chi^2$ /NDF:2147423.4/14

# reg\_asym\_atr\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

13.505+/-0.522  $\chi^2/\text{NDF}$ : 1782.4/15

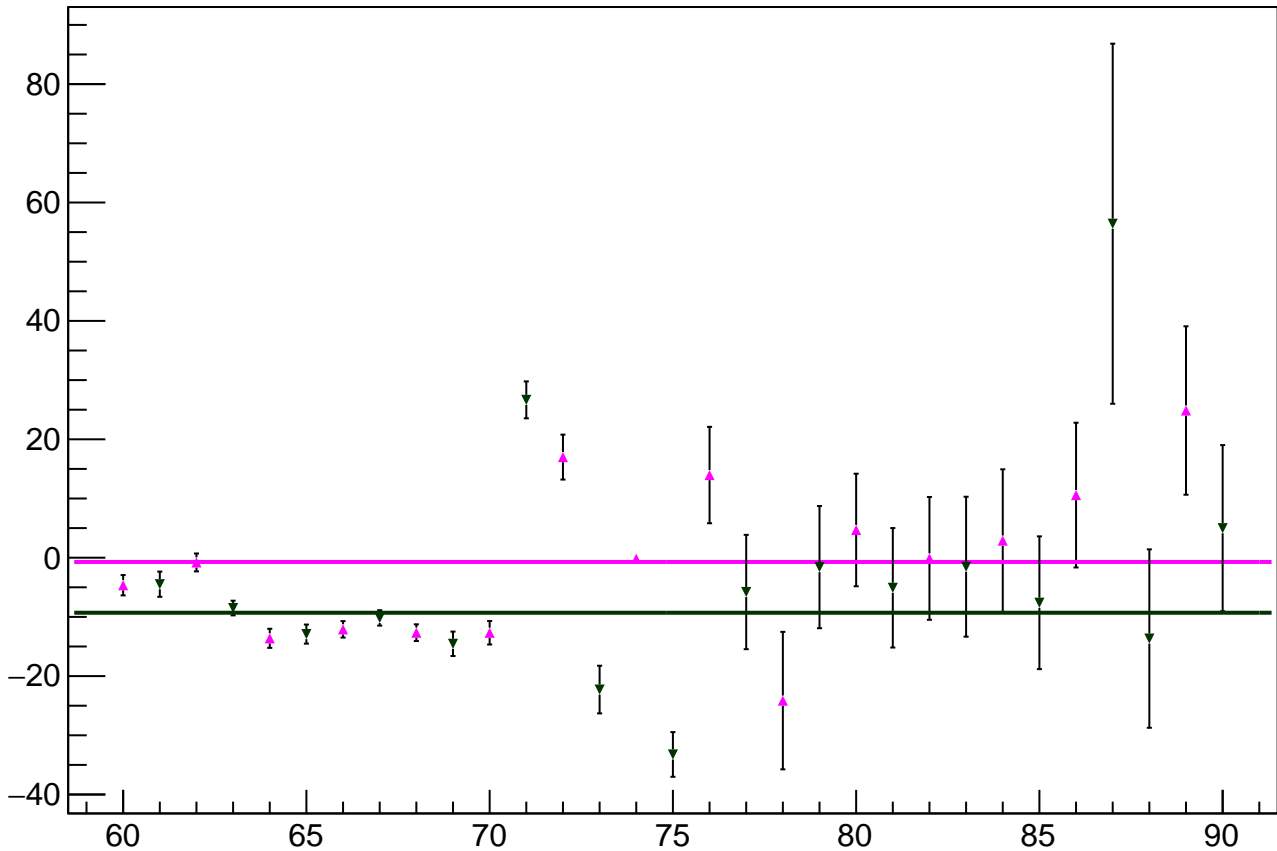
Left Out: 13.505+/-0.522  $\chi^2/\text{NDF}$ : 1782.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.082+/-0.142  $\chi^2/\text{NDF}$ : 2008.5/14

Left In: 1.082+/-0.142  $\chi^2/\text{NDF}$ : 2008.5/14

# reg\_asym\_atr\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -9.296+/-0.649  $\chi^2$ /NDF:208.2/15

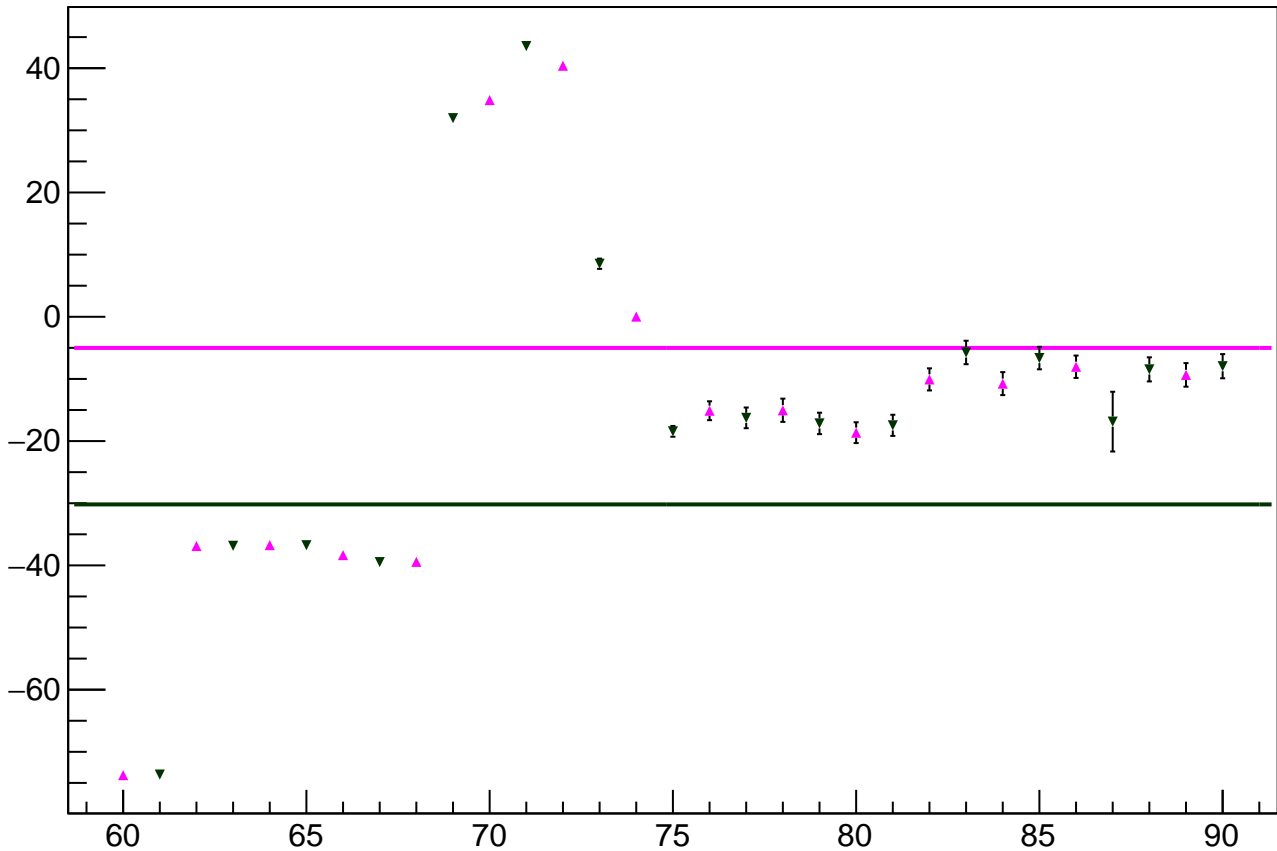
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.719+/-0.161  $\chi^2$ /NDF:288.4/14

-9.296+/-0.649  $\chi^2$ /NDF: 208.2/15

-0.719+/-0.161  $\chi^2$ /NDF: 288.4/14

# reg\_asym\_atr\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-30.190+/-0.089  $\chi^2/\text{NDF}$ : 107511.6/15

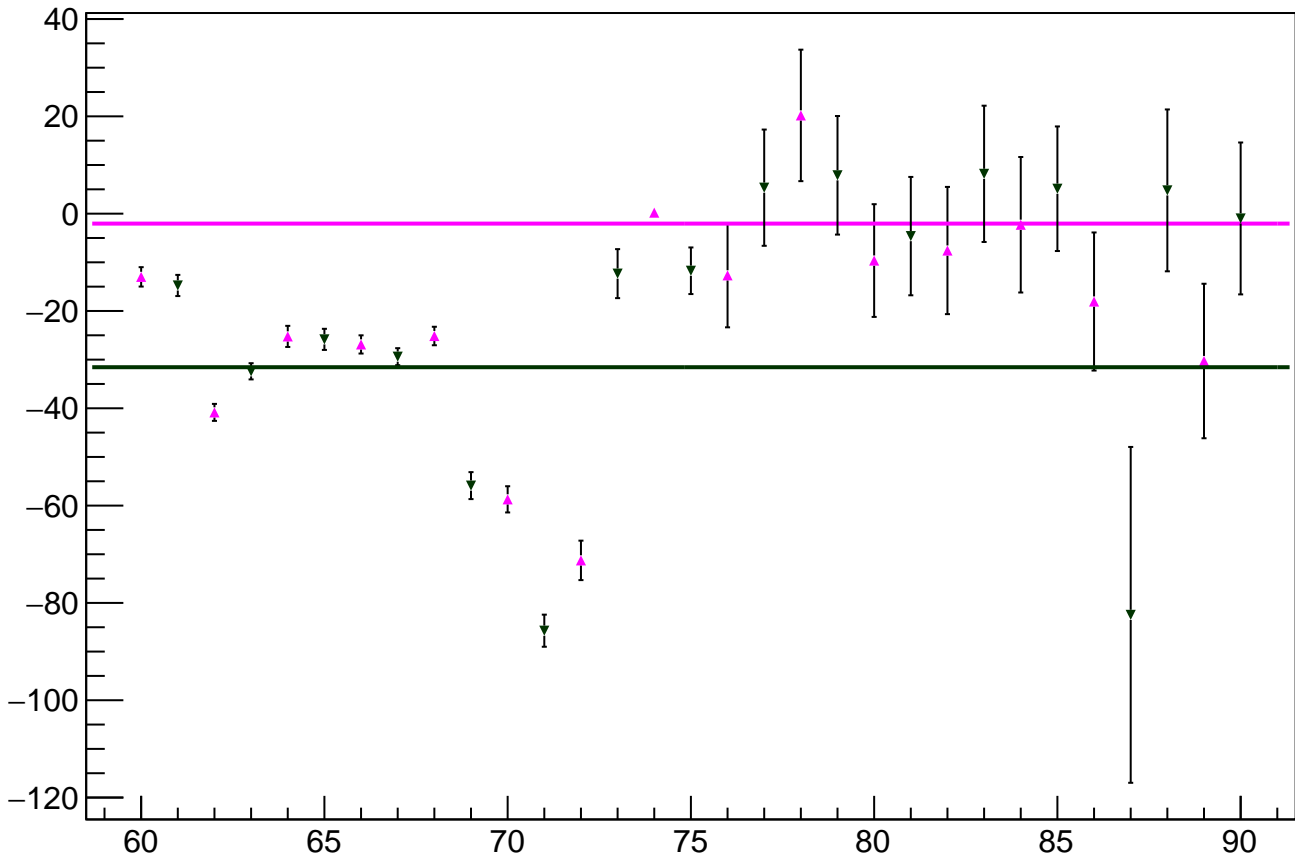
Left Out: -30.190+/-0.089  $\chi^2/\text{NDF}$ : 107511.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-5.010+/-0.032  $\chi^2/\text{NDF}$ : 237860.0/14

Left In: -5.010+/-0.032  $\chi^2/\text{NDF}$ : 237860.0/14

# reg\_asym\_atr\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -31.558+/-0.828  $\chi^2$ /NDF:498.5/15

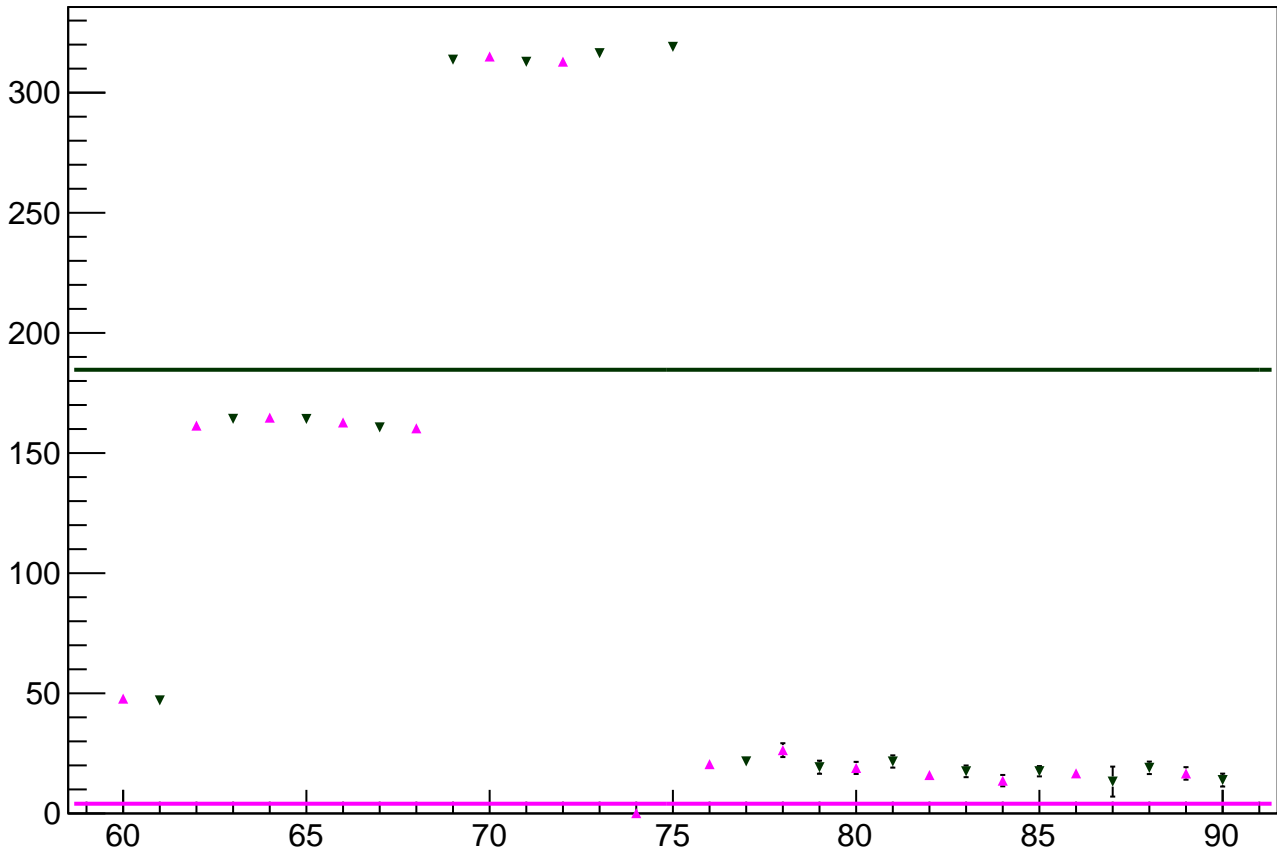
-31.558+/-0.828  $\chi^2$ /NDF: 498.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -2.044+/-0.213  $\chi^2$ /NDF:1808.9/14

-2.044+/-0.213  $\chi^2$ /NDF: 1808.9/14

# reg\_asym\_atr\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

184.668+/-0.148  $\chi^2/\text{NDF}$ : 364889.3/15

Left Out: 184.668+/-0.148  $\chi^2/\text{NDF}$ : 364889.3/15

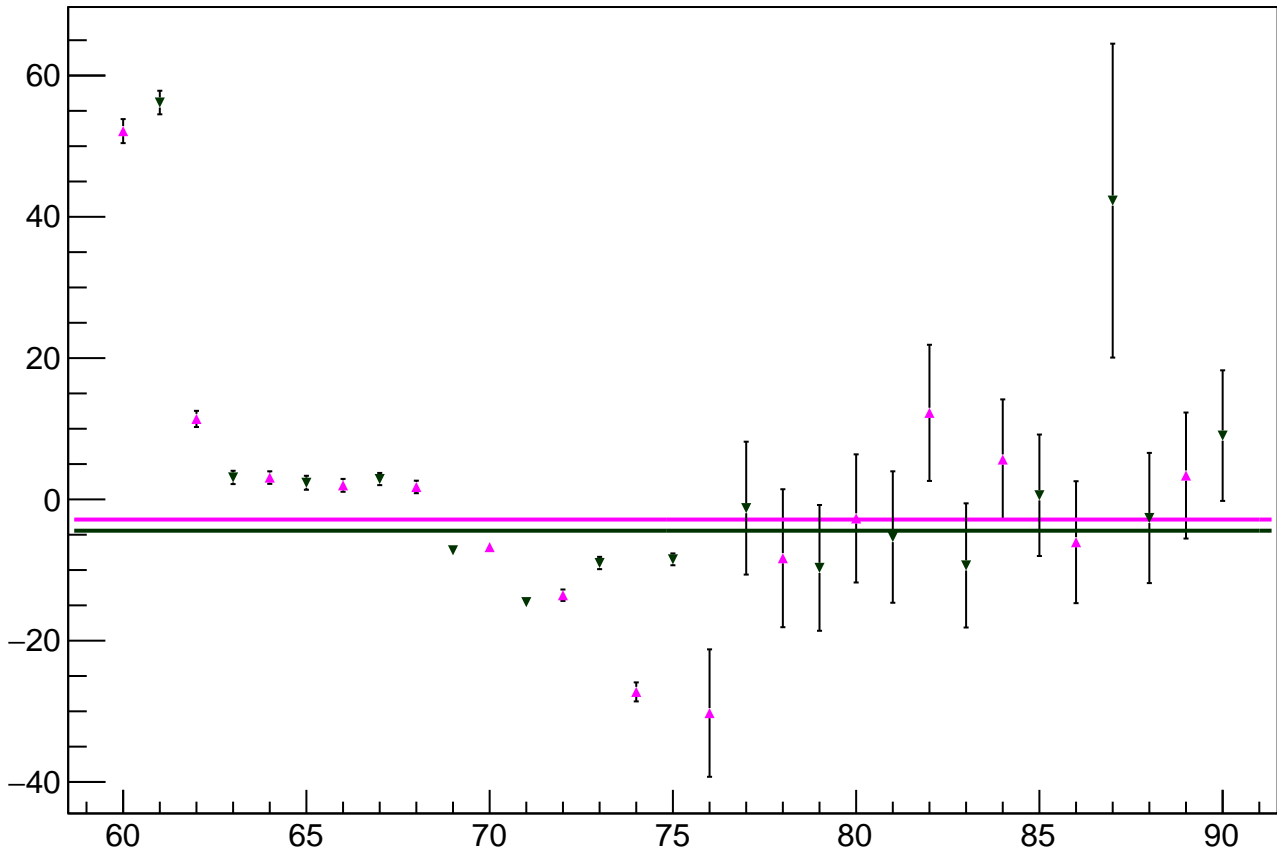
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.050+/-0.023  $\chi^2/\text{NDF}$ : 1482714.7/14

Left In: 4.050+/-0.023  $\chi^2/\text{NDF}$ : 1482714.7/14



# reg\_asym\_at1\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.432+/-0.273  $\chi^2$ /NDF:1827.7/15

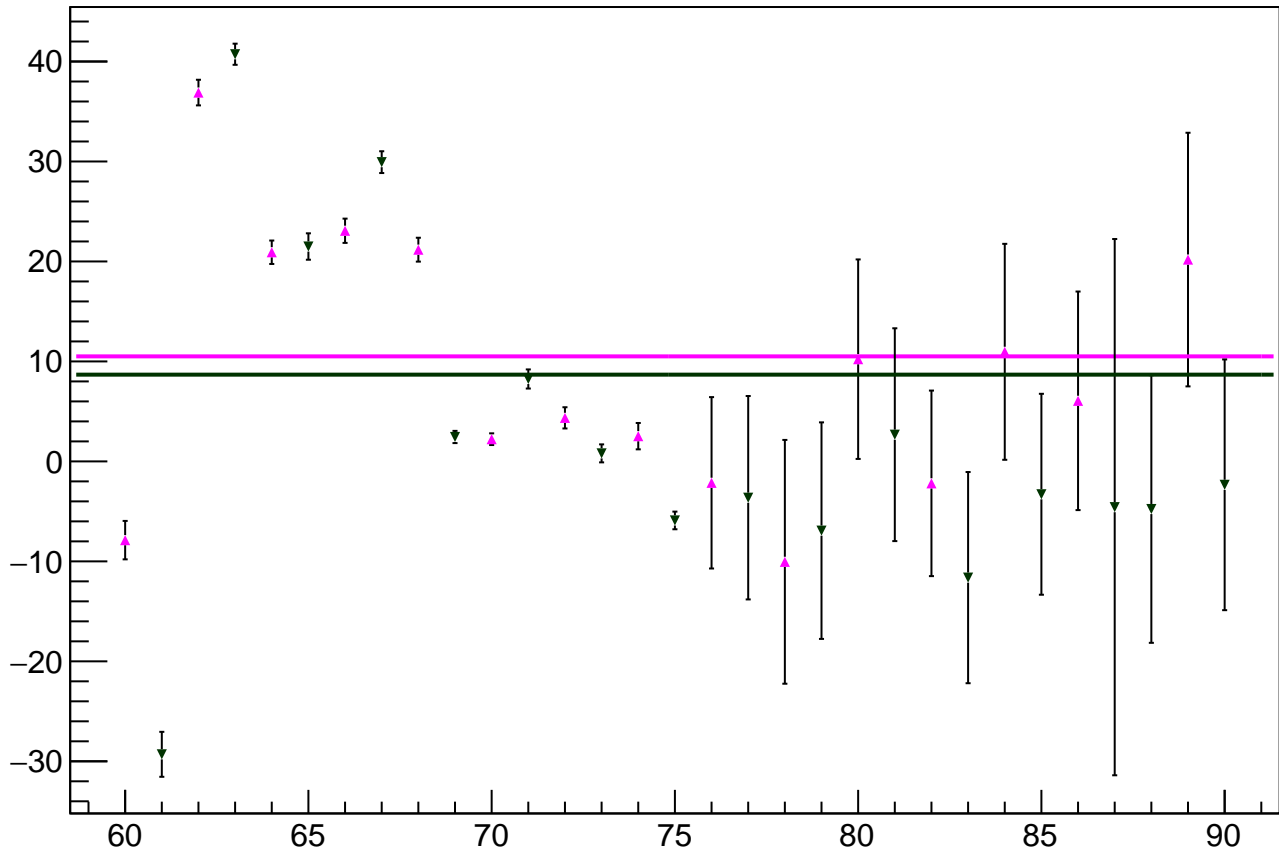
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -2.853+/-0.290  $\chi^2$ /NDF:1891.6/14

-4.432+/-0.273  $\chi^2$ /NDF: 1827.7/15

-2.853+/-0.290  $\chi^2$ /NDF: 1891.6/14

# reg\_asym\_at1\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8.677+/-0.336  $\chi^2/\text{NDF}$ : 2144.1/15

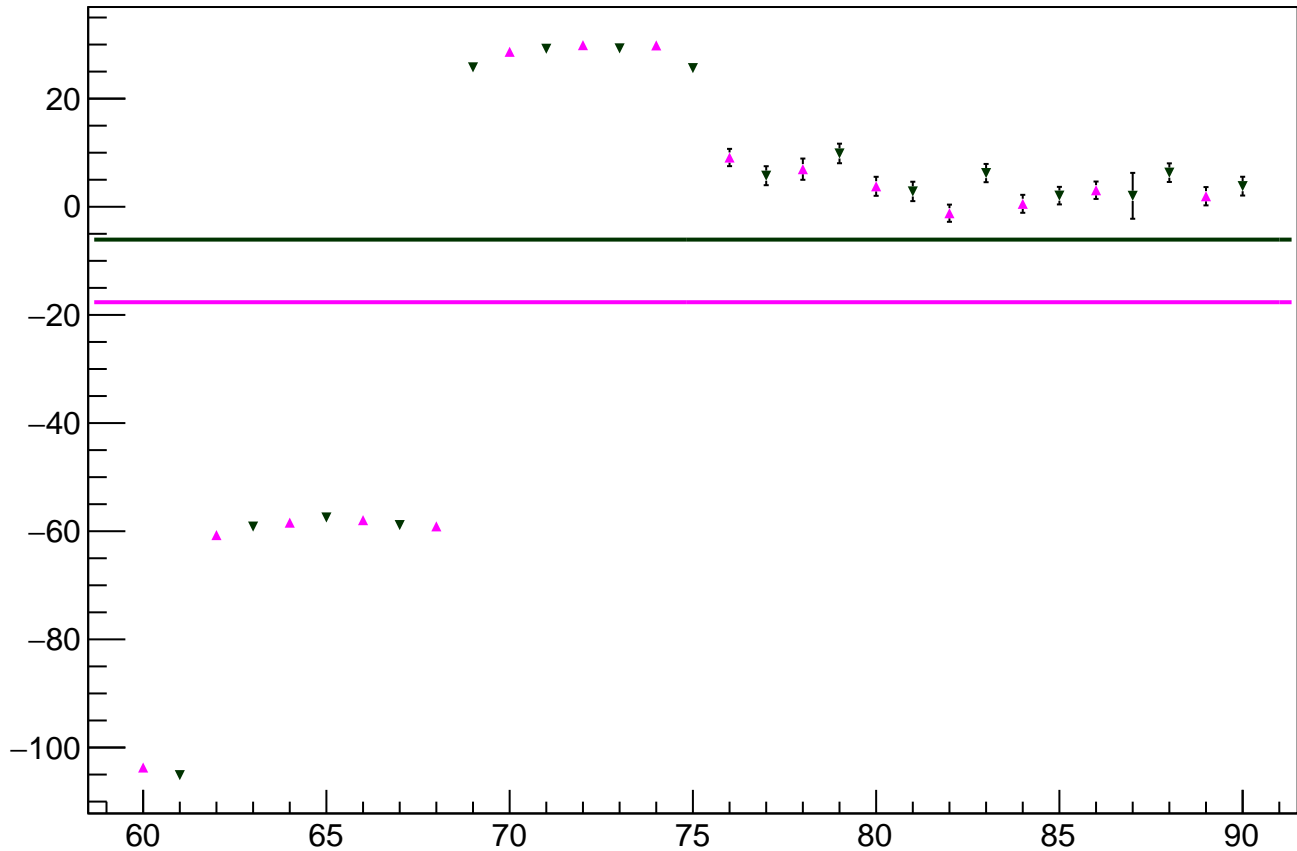
Left Out: 8.677+/-0.336  $\chi^2/\text{NDF}$ : 2144.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

10.505+/-0.367  $\chi^2/\text{NDF}$ : 1059.6/14

Left In: 10.505+/-0.367  $\chi^2/\text{NDF}$ : 1059.6/14

# reg\_asym\_at1\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -6.071+/-0.051  $\chi^2$ /NDF:732966.8/15

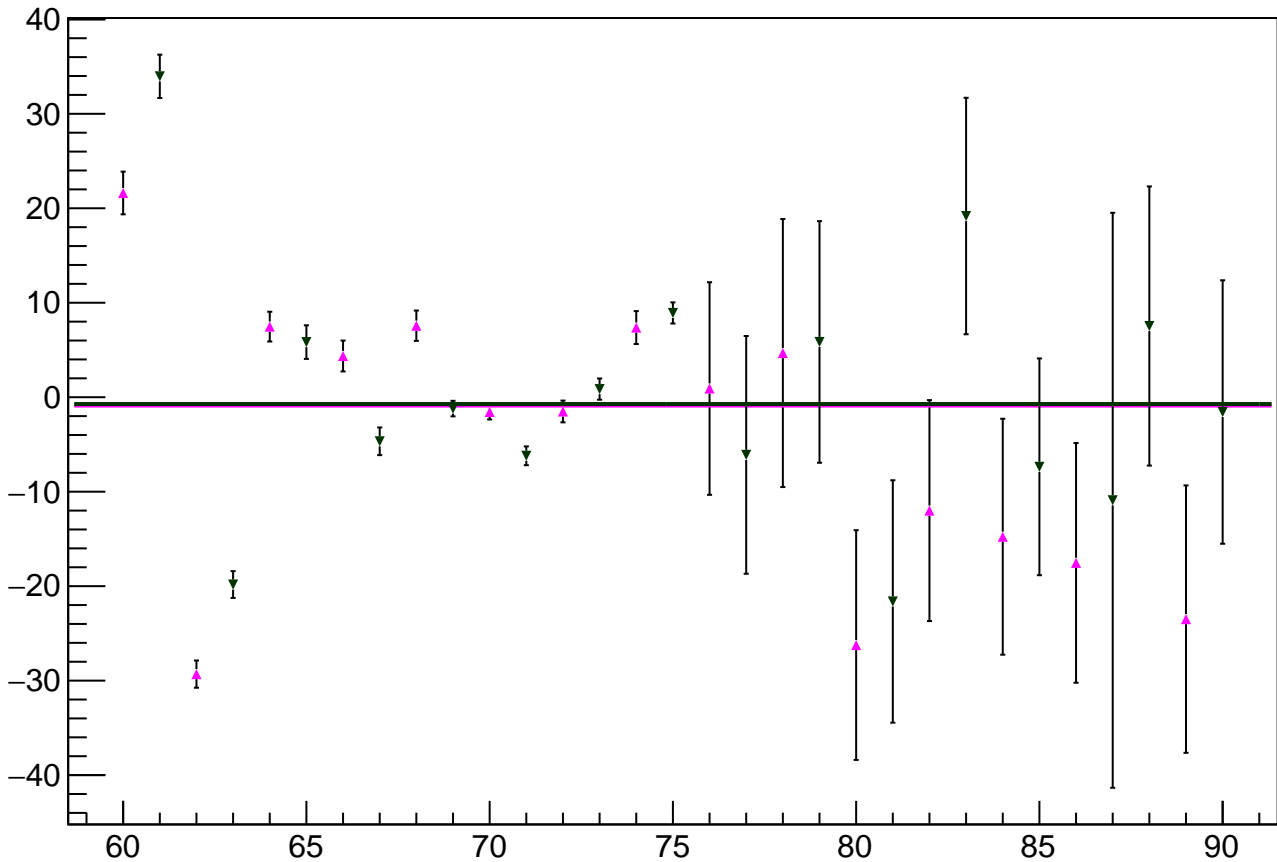
-6.071+/-0.051  $\chi^2$ /NDF: 732966.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -17.650+/-0.053  $\chi^2$ /NDF:748419.0/14

-17.650+/-0.053  $\chi^2$ /NDF: 748419.0/14

# reg\_asym\_at1\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.719+/-0.423  $\chi^2$ /NDF:543.8/15

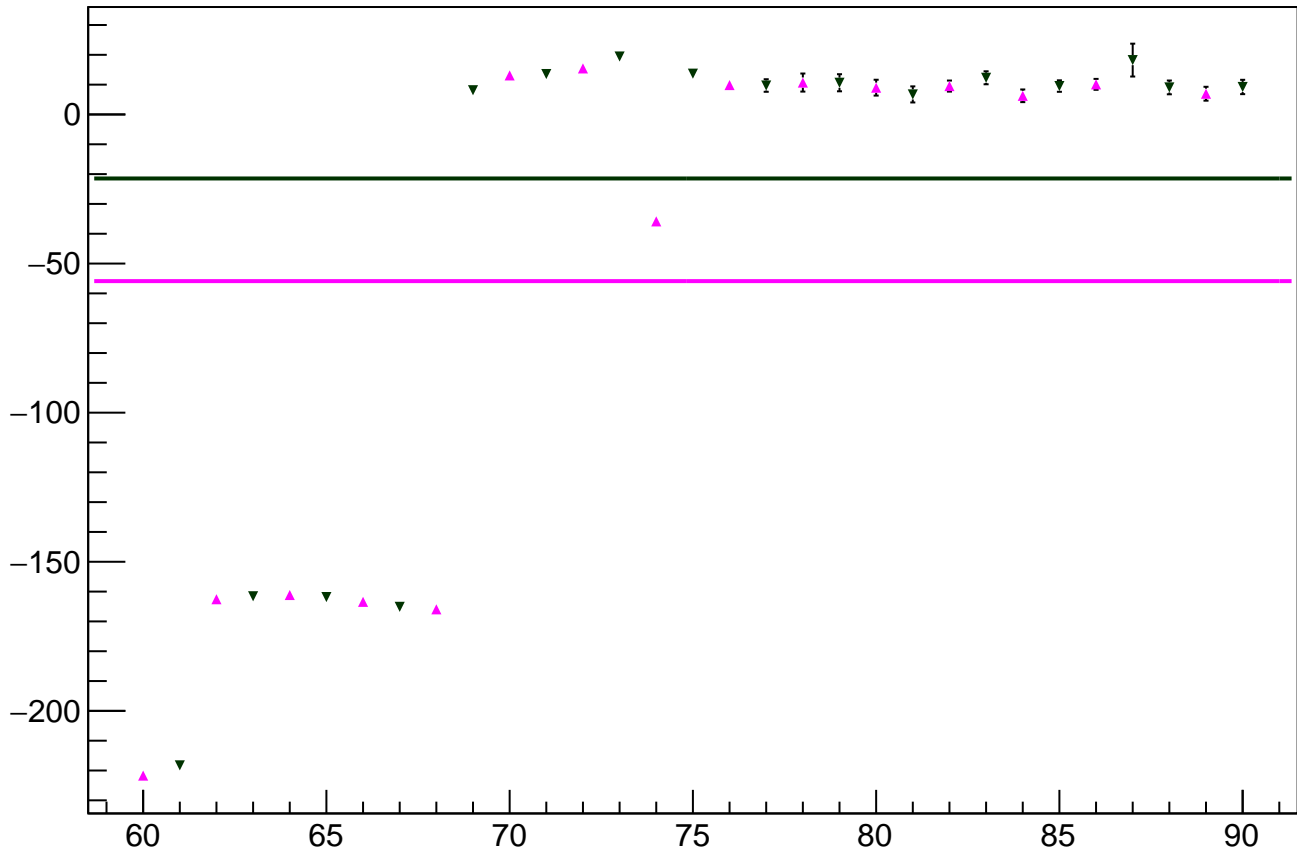
-0.719+/-0.423  $\chi^2$ /NDF: 543.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.885+/-0.469  $\chi^2$ /NDF: 588.9/14

Left In: -0.885+/-0.469  $\chi^2$ /NDF:588.9/14

# reg\_asym\_at1\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -21.467+/-0.067  $\chi^2$ /NDF:1170009.4/15

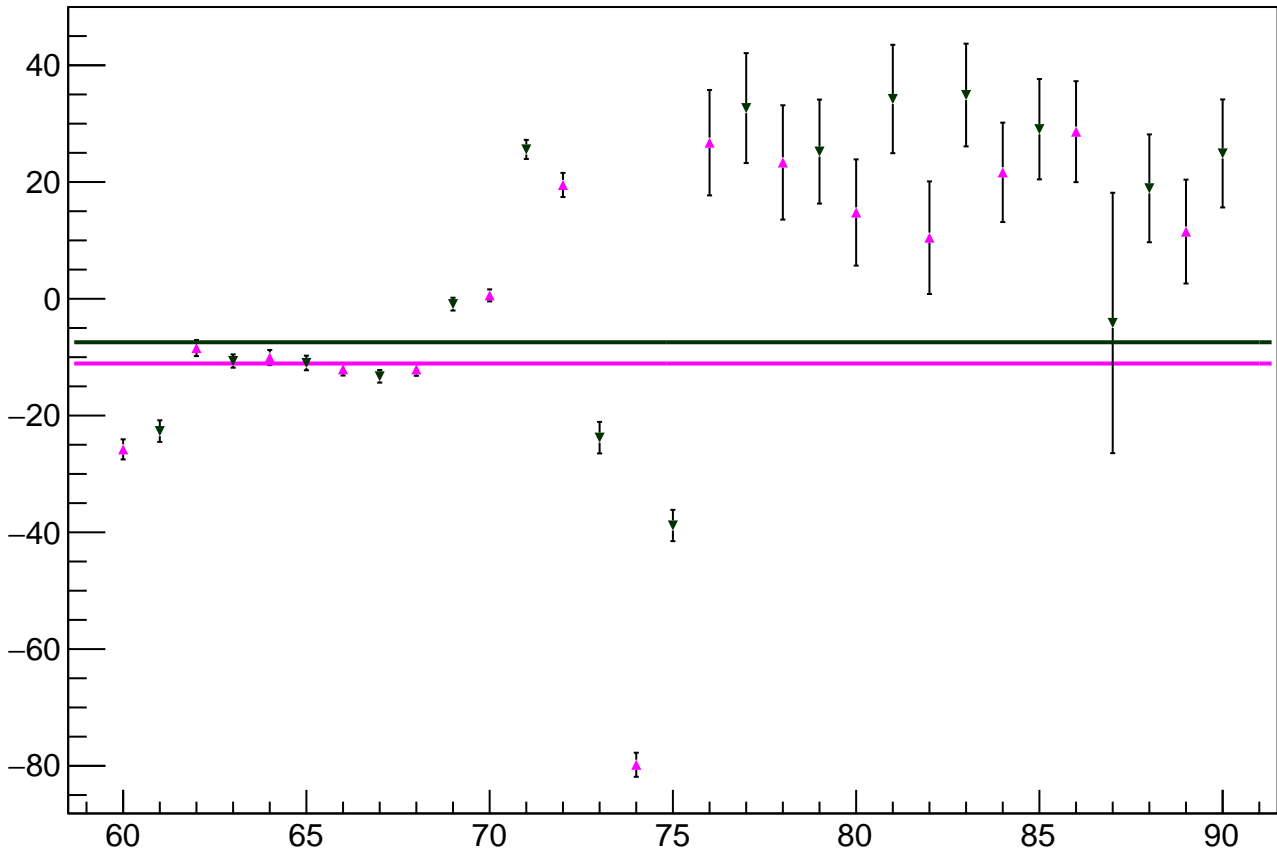
-21.467+/-0.067  $\chi^2$ /NDF: 1170009.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -55.888+/-0.080  $\chi^2$ /NDF:1107480.7/14

-55.888+/-0.080  $\chi^2$ /NDF: 1107480.7/14

# reg\_asym\_at1\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -7.445+/-0.492  $\chi^2$ /NDF:842.9/15

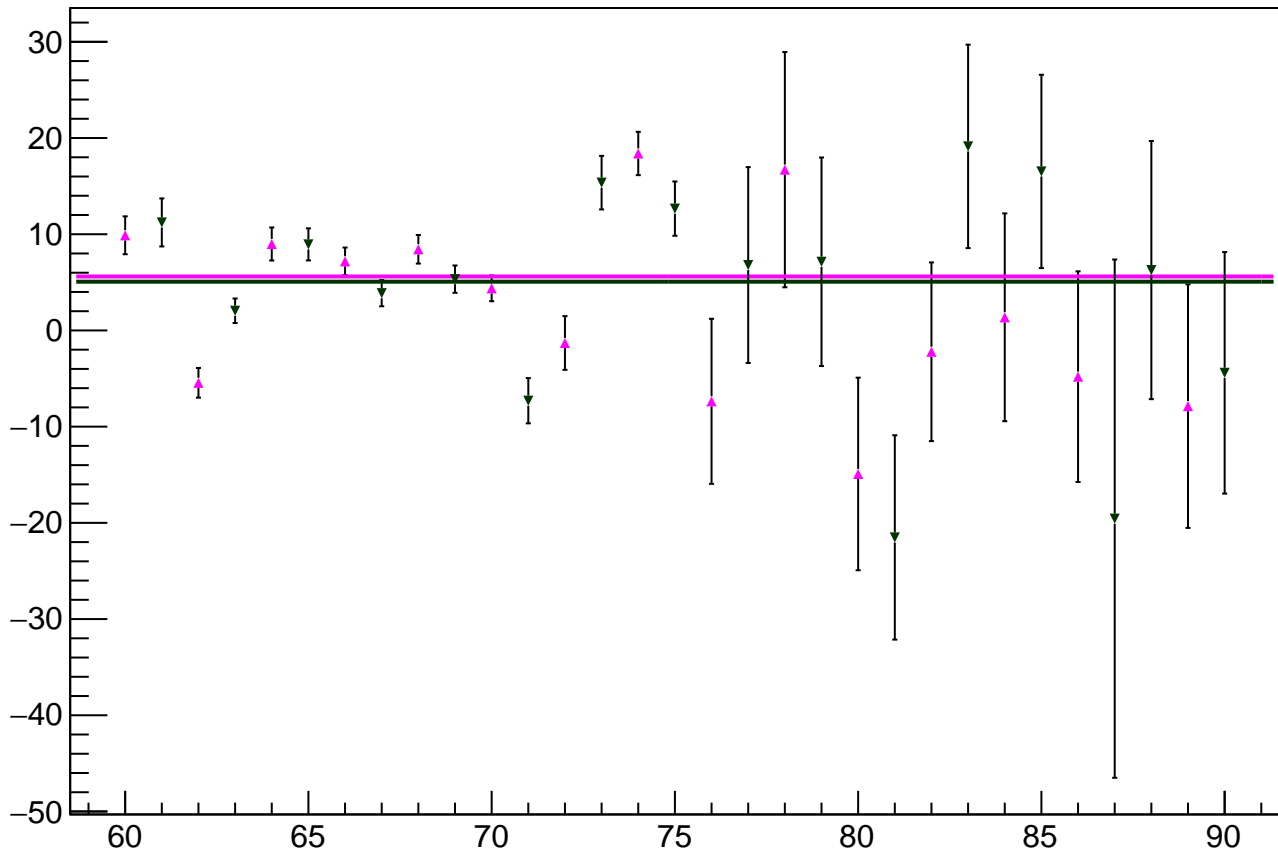
-7.445+/-0.492  $\chi^2$ /NDF: 842.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.087+/-0.464  $\chi^2$ /NDF:1621.9/14

-11.087+/-0.464  $\chi^2$ /NDF: 1621.9/14

# reg\_asym\_at1\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 5.068+/-0.612  $\chi^2$ /NDF:77.3/15

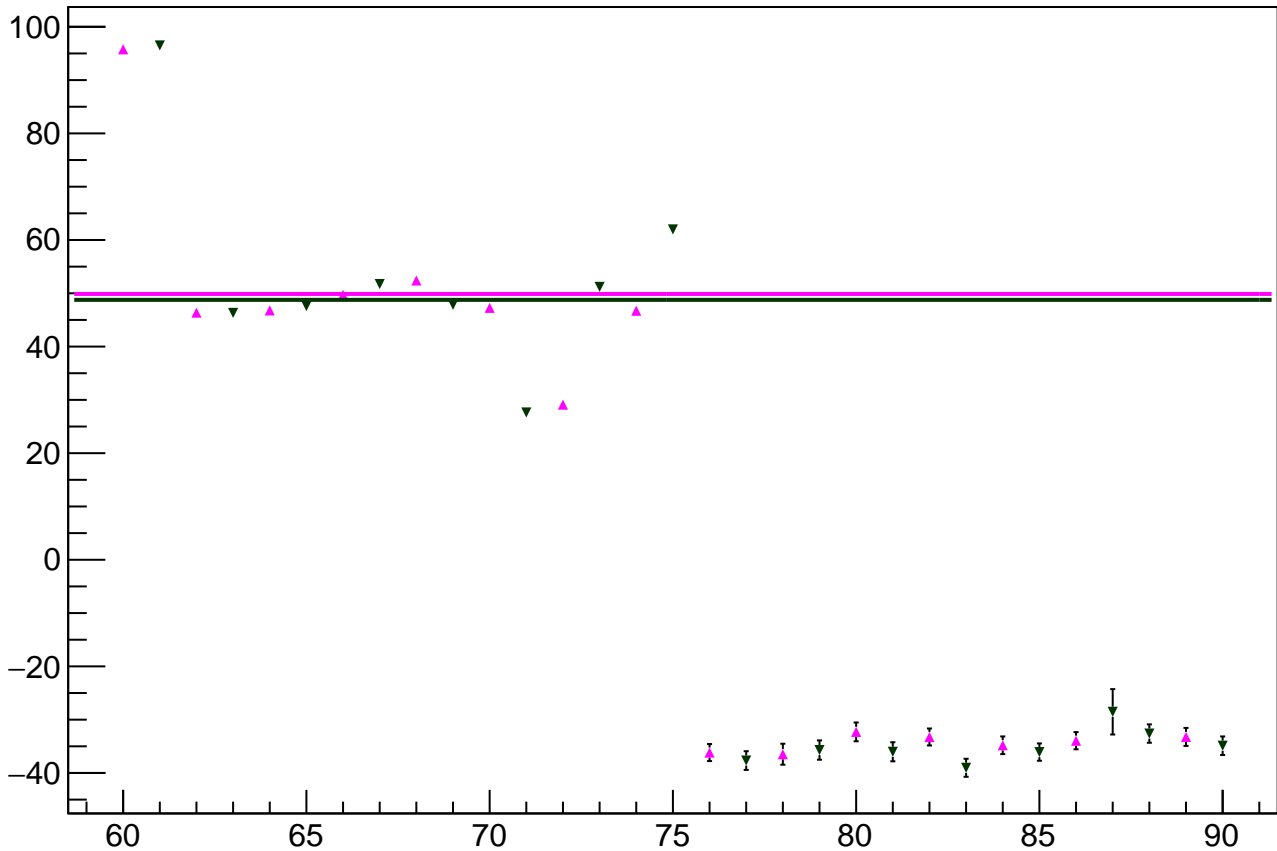
5.068+/-0.612  $\chi^2$ /NDF: 77.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

5.609+/-0.586  $\chi^2$ /NDF: 114.2/14

Left In: 5.609+/-0.586  $\chi^2$ /NDF:114.2/14

# reg\_asym\_at1\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 48.767+/-0.086  $\chi^2/\text{NDF}$ : 43810.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

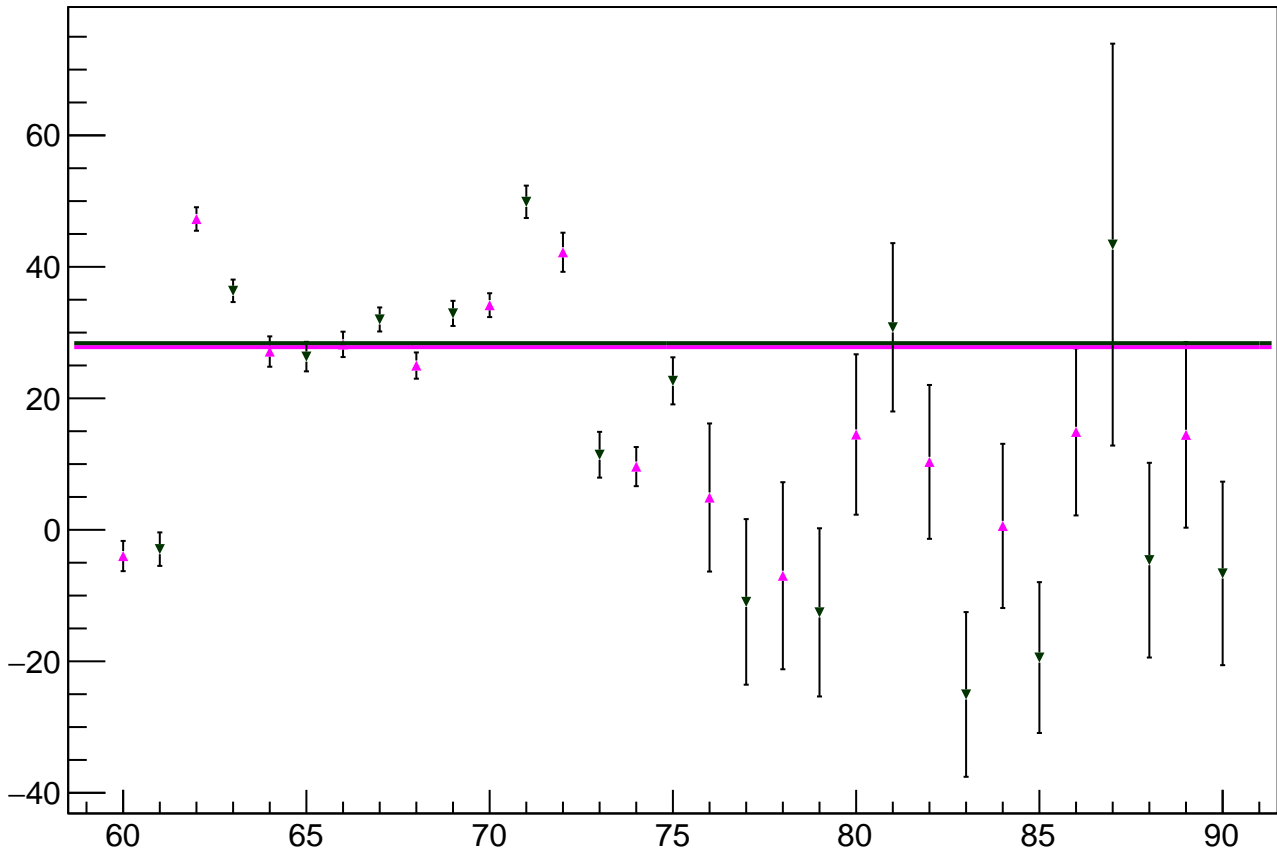
Left In: 49.876+/-0.081  $\chi^2/\text{NDF}$ : 43439.1/14

48.767+/-0.086  $\chi^2/\text{NDF}$ : 43810.3/15

49.876+/-0.081  $\chi^2/\text{NDF}$ : 43439.1/14



# reg\_asym\_at1\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 28.392+/-0.782  $\chi^2$ /NDF:352.8/15

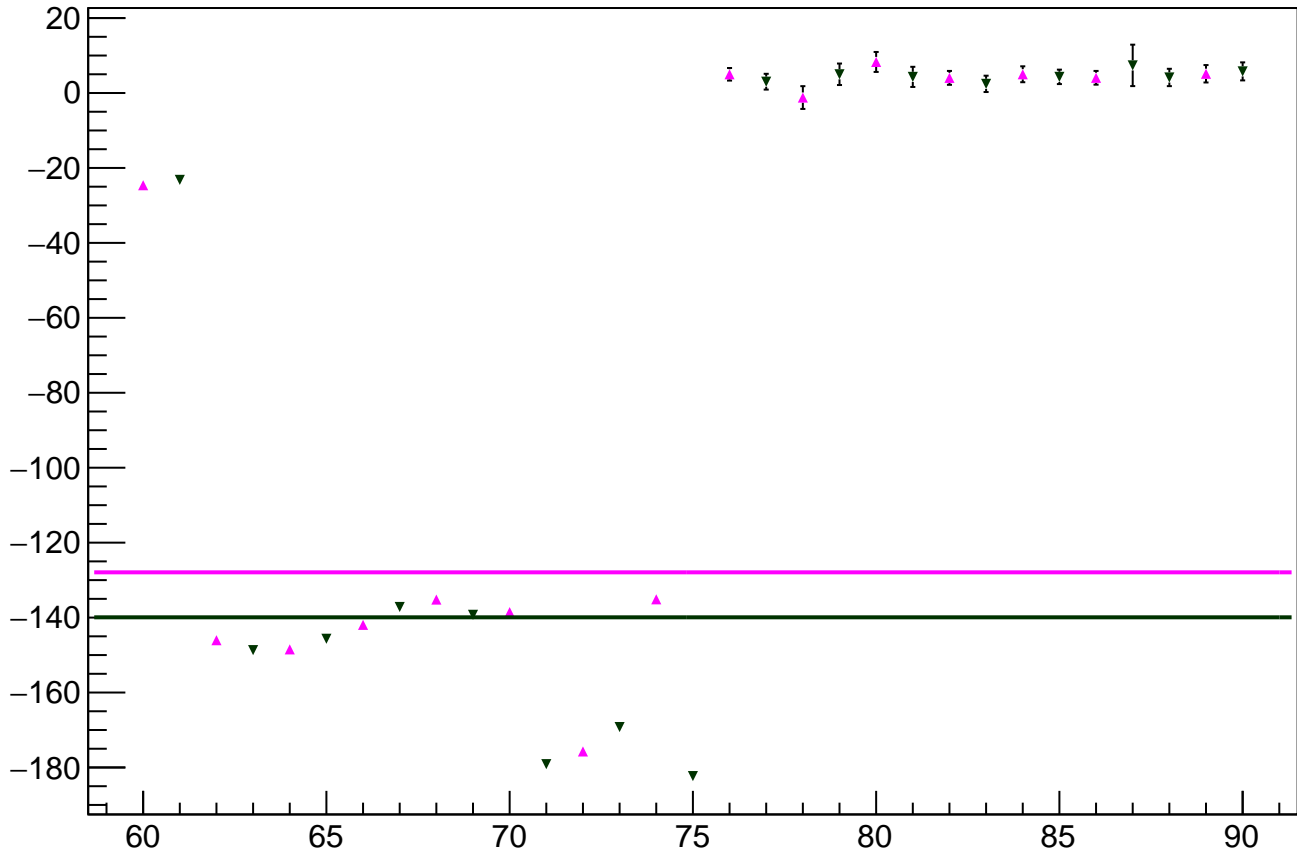
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 27.786+/-0.749  $\chi^2$ /NDF:405.4/14

28.392+/-0.782  $\chi^2$ /NDF: 352.8/15

27.786+/-0.749  $\chi^2$ /NDF: 405.4/14

# reg\_asym\_at1\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-139.928+/-0.136  $\chi^2$ /NDF: 110432.2/15

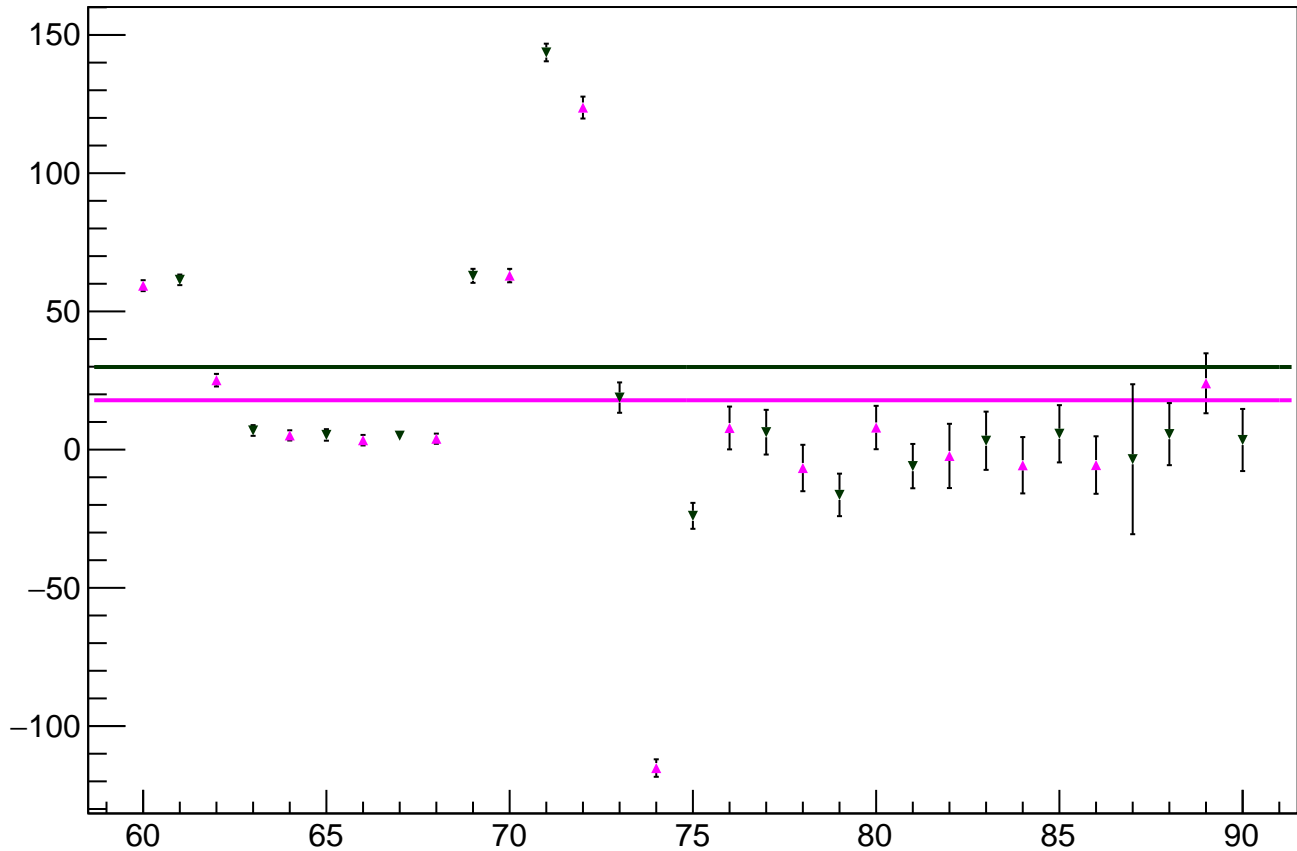
Left Out: -139.928+/-0.136  $\chi^2$ /NDF: 110432.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-127.923+/-0.128  $\chi^2$ /NDF: 110709.8/14

Left In: -127.923+/-0.128  $\chi^2$ /NDF: 110709.8/14

# reg\_asym\_at2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 29.887+/-0.818  $\chi^2$ /NDF:2408.2/15

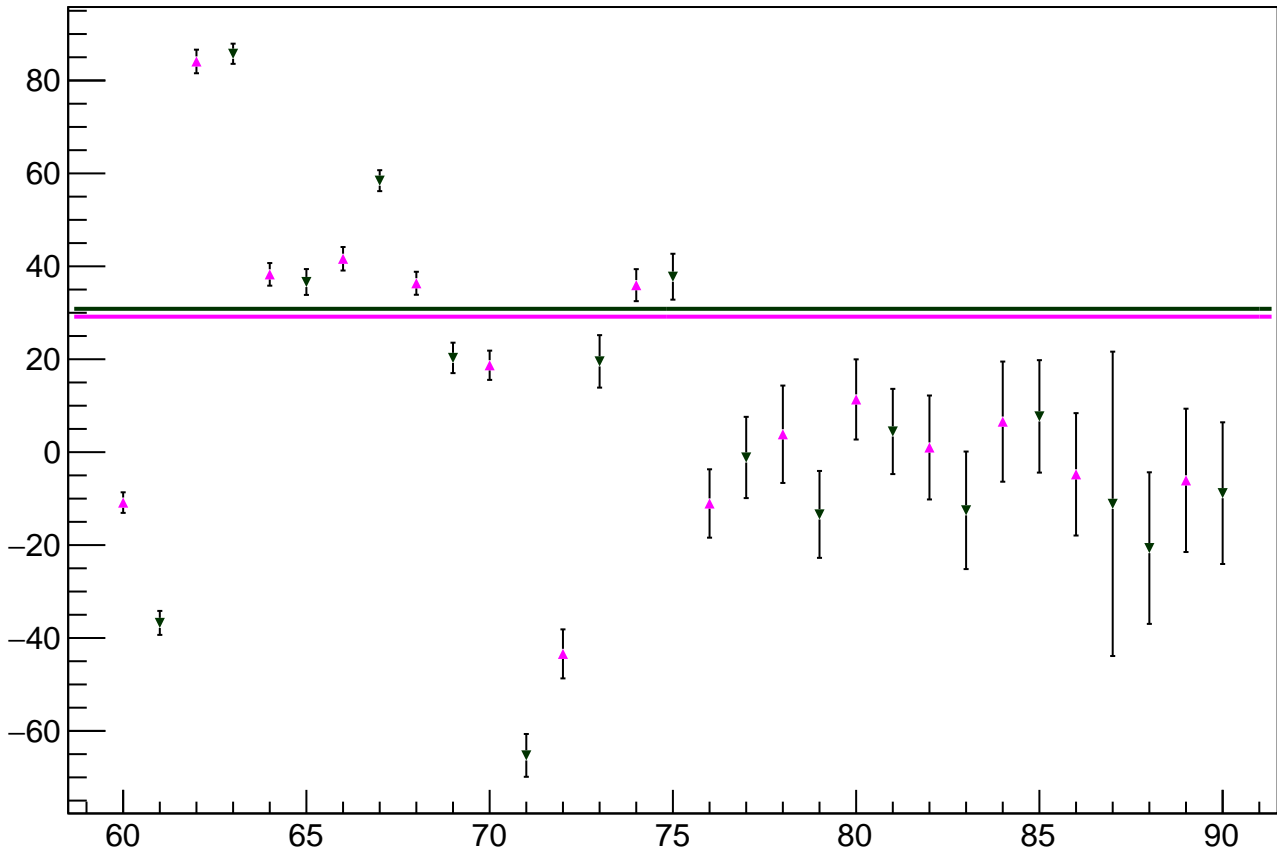
29.887+/-0.818  $\chi^2$ /NDF: 2408.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

17.858+/-0.761  $\chi^2$ /NDF: 3462.1/14

Left In: 17.858+/-0.761  $\chi^2$ /NDF:3462.1/14

# reg\_asym\_at2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

30.855+/-1.021  $\chi^2$ /NDF: 2008.8/15

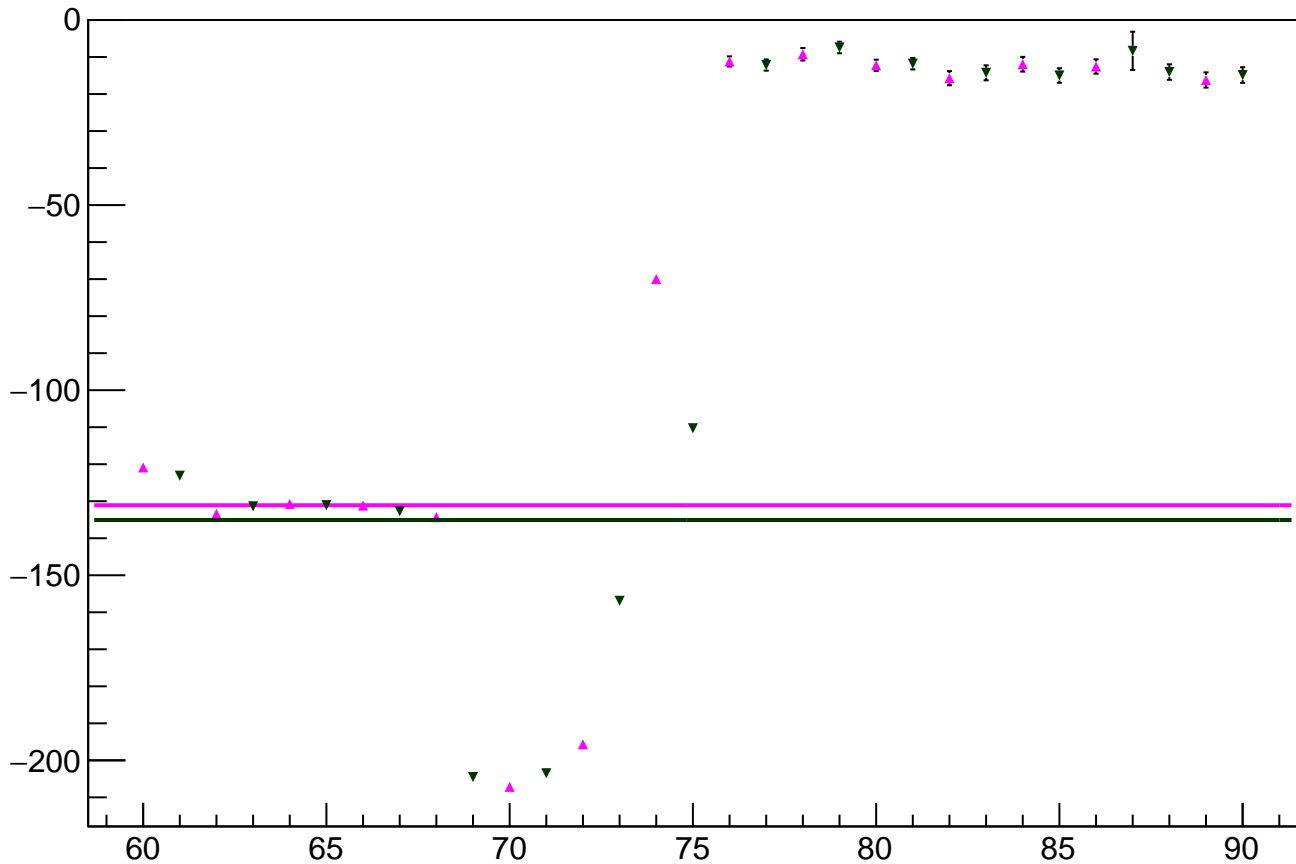
Left Out: 30.855+/-1.021  $\chi^2$ /NDF:2008.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

29.162+/-0.940  $\chi^2$ /NDF: 1106.1/14

Left In: 29.162+/-0.940  $\chi^2$ /NDF:1106.1/14

# reg\_asym\_at2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -135.079+/-0.142  $\chi^2$ /NDF:69689.3/15

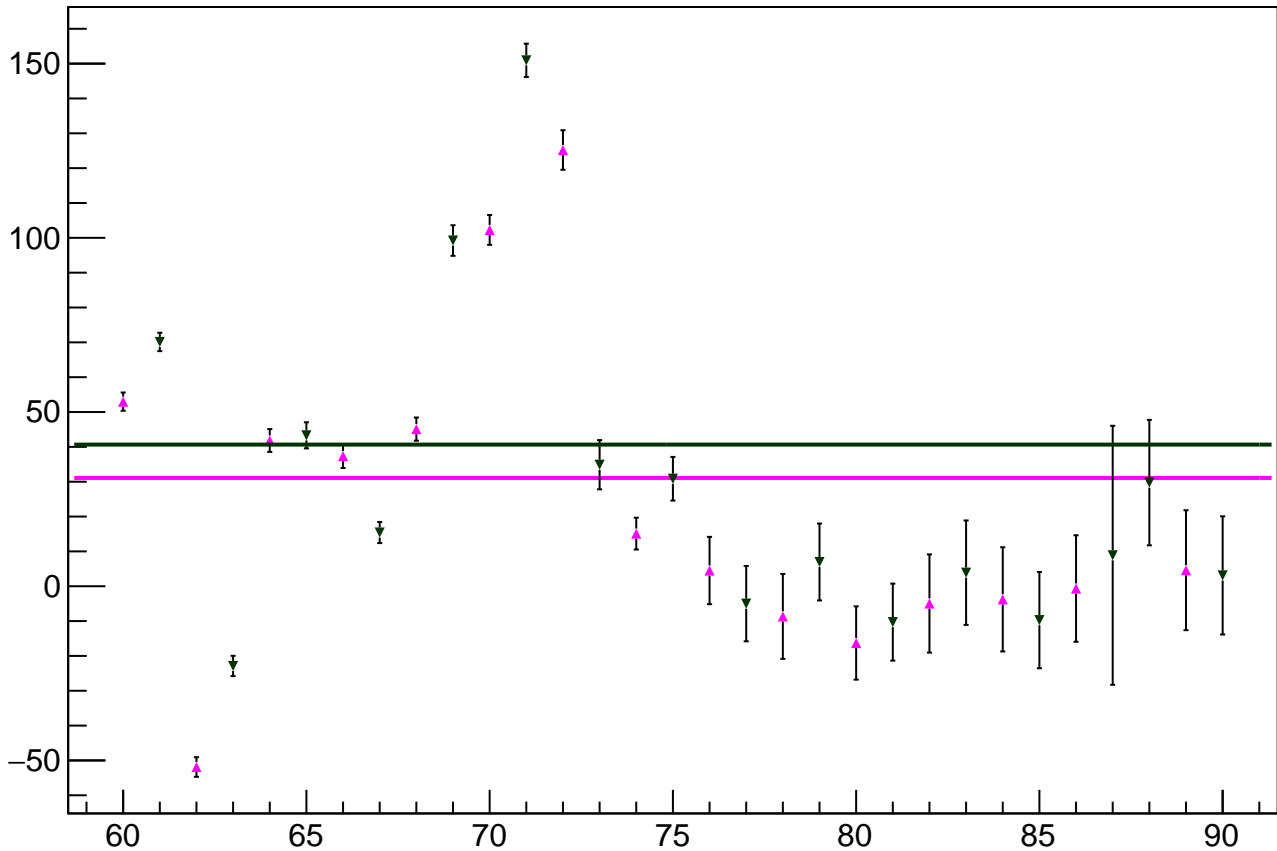
-135.079+/-0.142  $\chi^2$ /NDF: 69689.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -131.088+/-0.131  $\chi^2$ /NDF:72075.6/14

-131.088+/-0.131  $\chi^2$ /NDF: 72075.6/14

# reg\_asym\_at2\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 40.653+/-1.265  $\chi^2/\text{NDF}$ : 1455.3/15

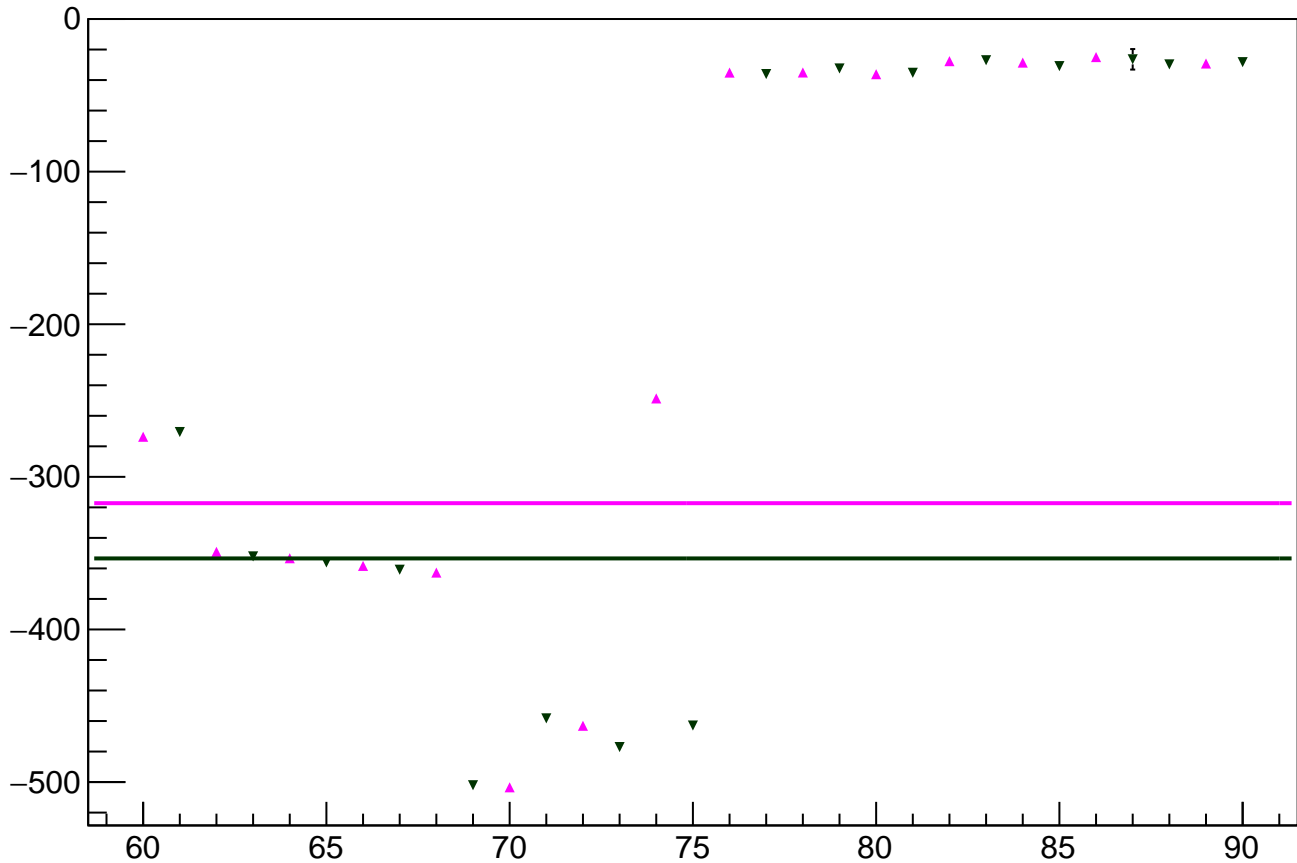
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 31.084+/-1.180  $\chi^2/\text{NDF}$ : 1593.8/14

40.653+/-1.265  $\chi^2/\text{NDF}$ : 1455.3/15

31.084+/-1.180  $\chi^2/\text{NDF}$ : 1593.8/14

# reg\_asym\_at2\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -353.455+/-0.226  $\chi^2$ /NDF:243192.5/15

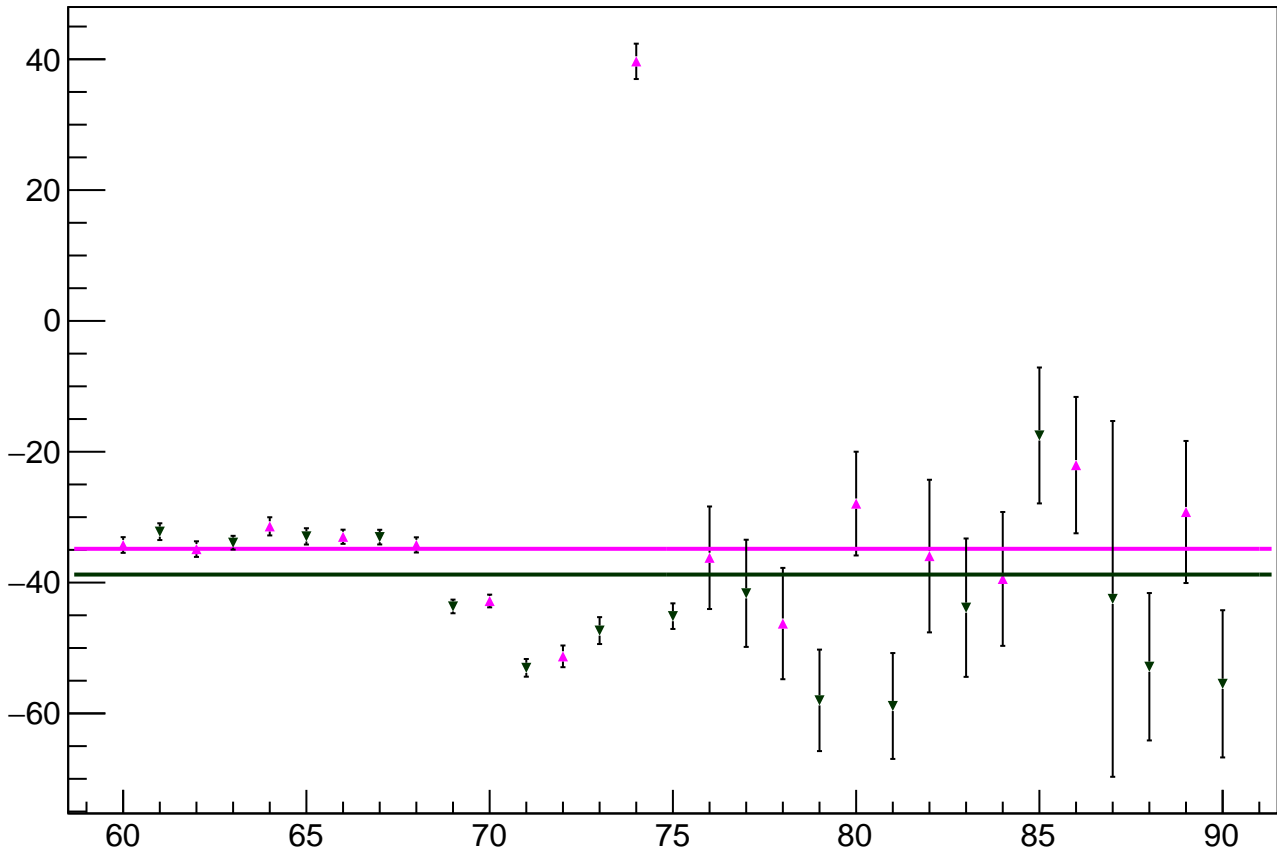
-353.455+/-0.226  $\chi^2$ /NDF: 243192.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -317.255+/-0.203  $\chi^2$ /NDF:251415.6/14

-317.255+/-0.203  $\chi^2$ /NDF: 251415.6/14

# reg\_asym\_at2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -38.773+/-0.447  $\chi^2$ /NDF:277.3/15

-38.773+/-0.447  $\chi^2$ /NDF: 277.3/15

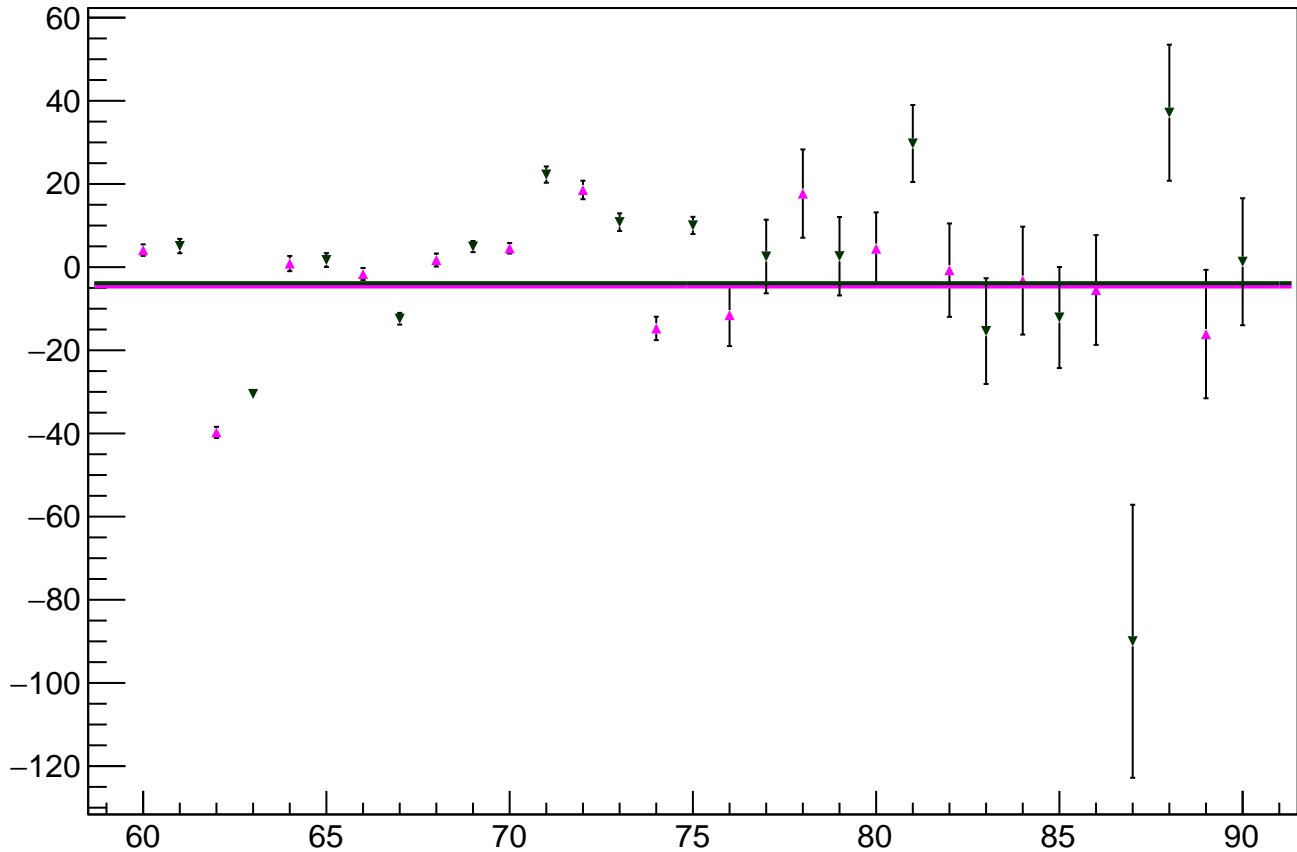
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -34.838+/-0.441  $\chi^2$ /NDF:939.9/14

-34.838+/-0.441  $\chi^2$ /NDF: 939.9/14



# reg\_asym\_at2\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -3.859+/-0.554  $\chi^2$ /NDF:934.2/15

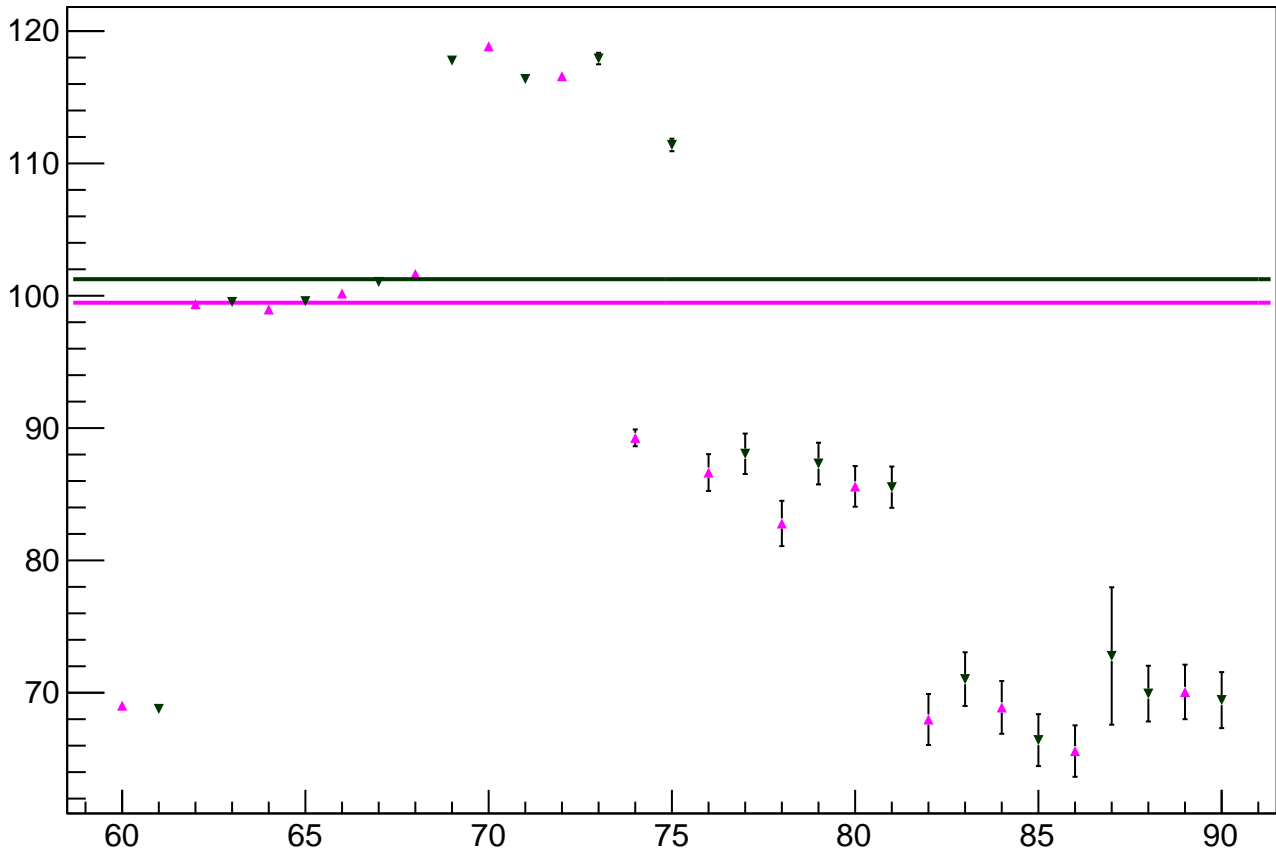
-3.859+/-0.554  $\chi^2$ /NDF: 934.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4.662+/-0.550  $\chi^2$ /NDF: 943.8/14

Left In: -4.662+/-0.550  $\chi^2$ /NDF:943.8/14

# reg\_asym\_at2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 101.252+/-0.080  $\chi^2$ /NDF:33283.0/15

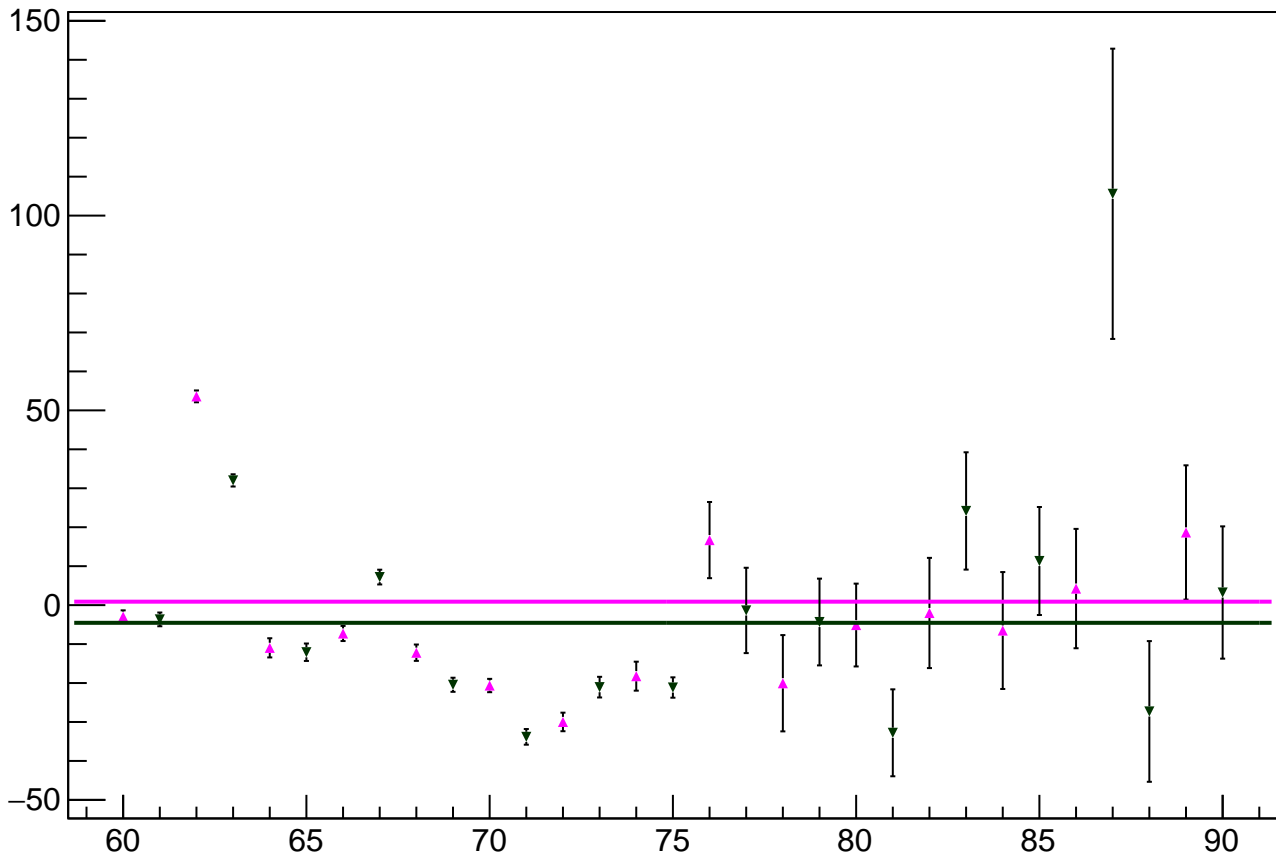
101.252+/-0.080  $\chi^2$ /NDF: 33283.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 99.475+/-0.077  $\chi^2$ /NDF:34550.4/14

99.475+/-0.077  $\chi^2$ /NDF: 34550.4/14

# reg\_asym\_at2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.541+/-0.692  $\chi^2$ /NDF:980.8/15

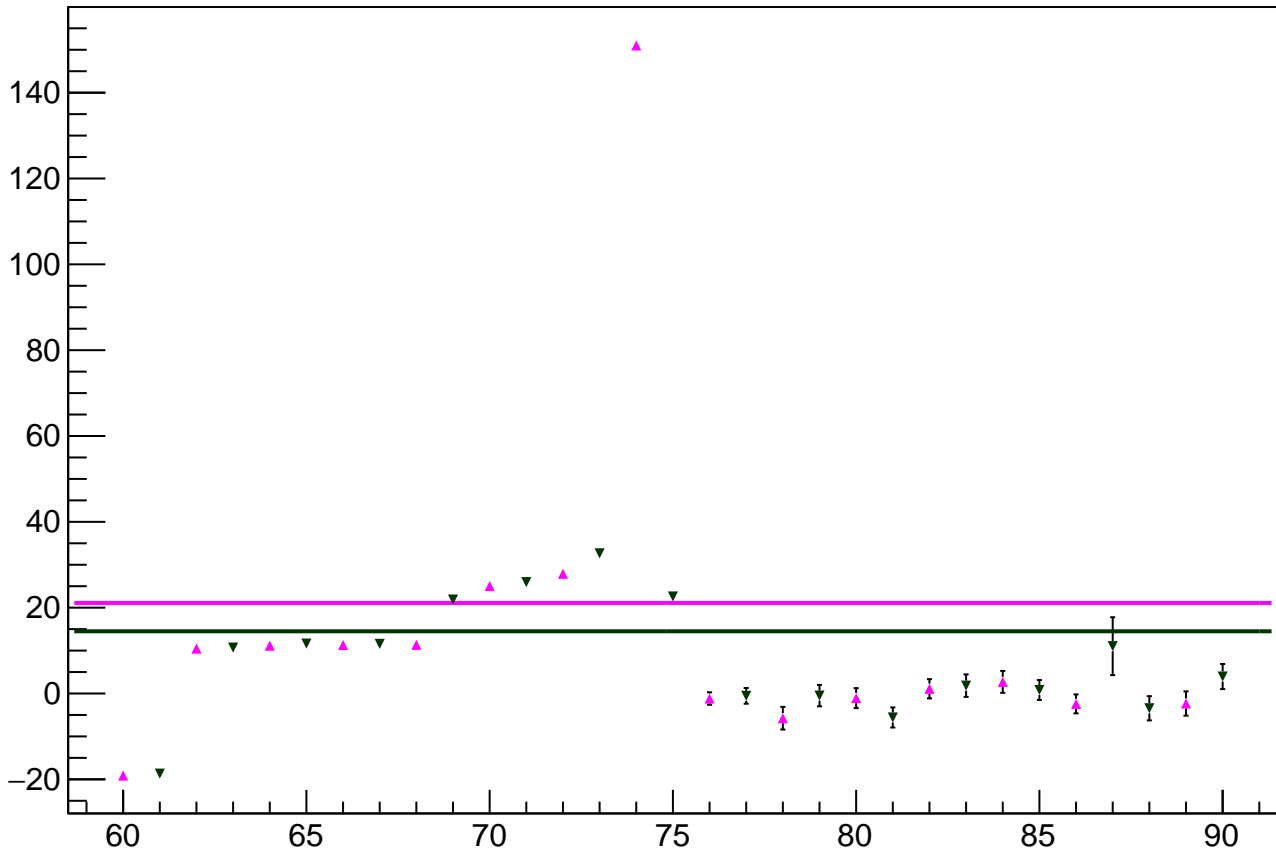
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.886+/-0.688  $\chi^2$ /NDF:1644.2/14

-4.541+/-0.692  $\chi^2$ /NDF: 980.8/15

0.886+/-0.688  $\chi^2$ /NDF: 1644.2/14

# reg\_asym\_at2\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 14.492+/-0.118  $\chi^2/\text{NDF}$ : 15455.9/15

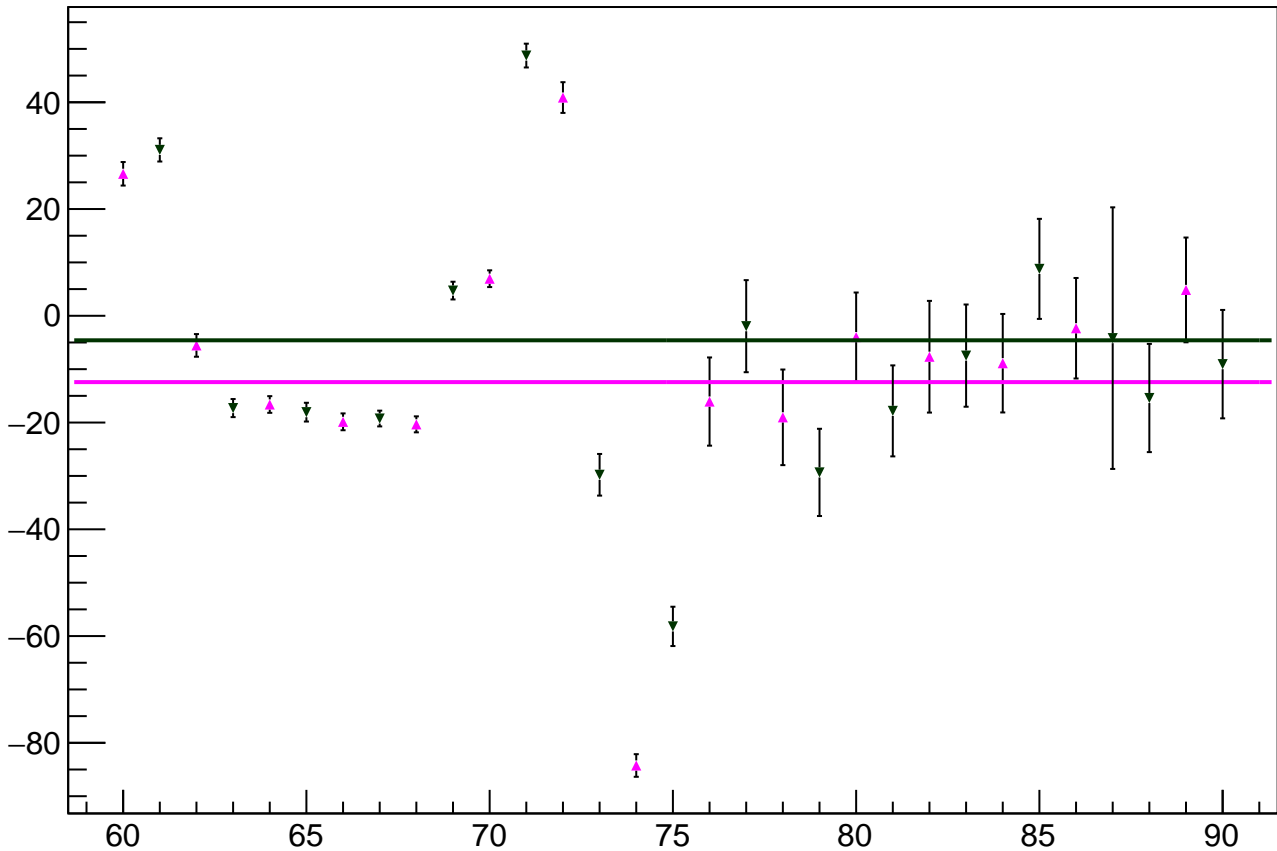
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 21.103+/-0.121  $\chi^2/\text{NDF}$ : 121240.4/14

14.492+/-0.118  $\chi^2/\text{NDF}$ : 15455.9/15

21.103+/-0.121  $\chi^2/\text{NDF}$ : 121240.4/14

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4.593+/-0.685  $\chi^2$ /NDF: 1354.8/15

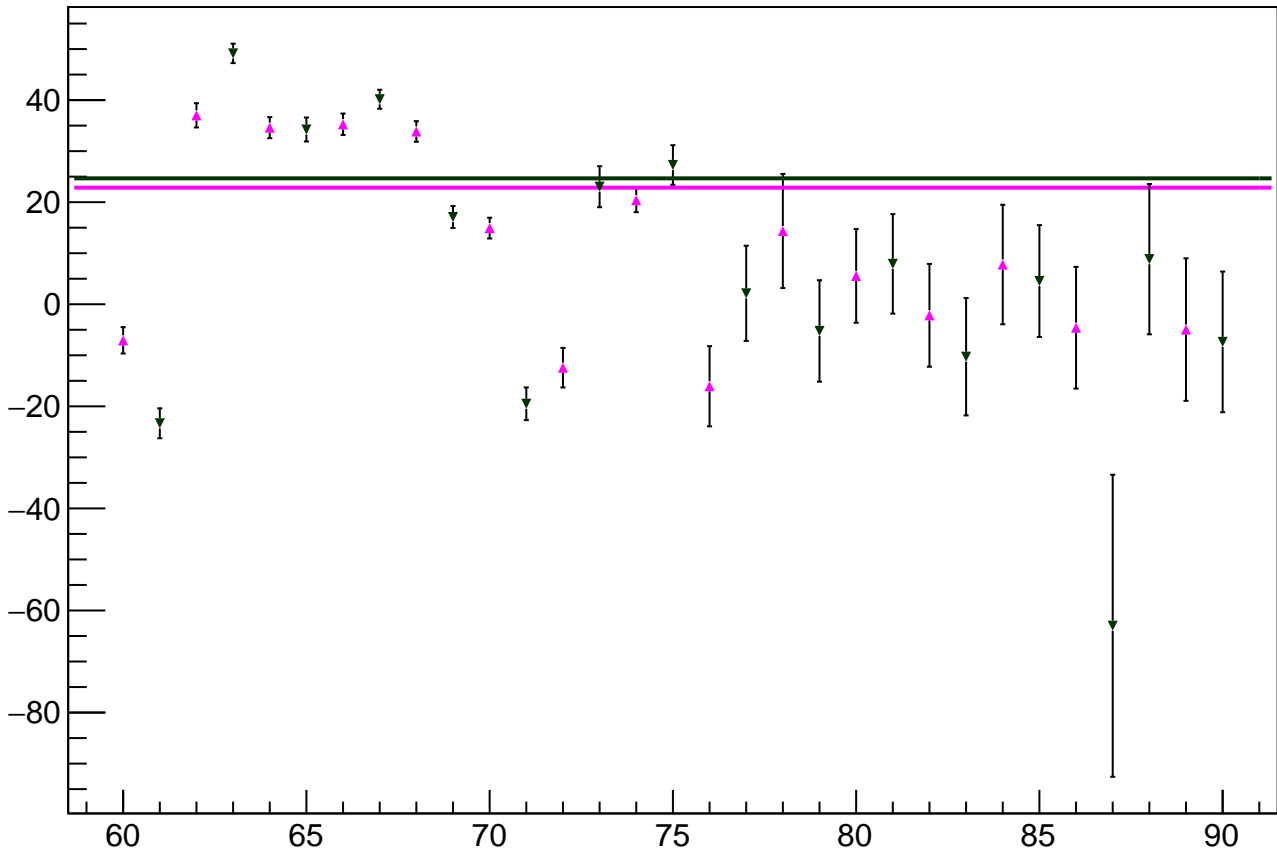
Left Out: -4.593+/-0.685  $\chi^2$ /NDF: 1354.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-12.425+/-0.630  $\chi^2$ /NDF: 2031.6/14

Left In: -12.425+/-0.630  $\chi^2$ /NDF: 2031.6/14

# reg\_asym\_atl1r2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 24.667+/-0.856  $\chi^2$ /NDF:768.8/15

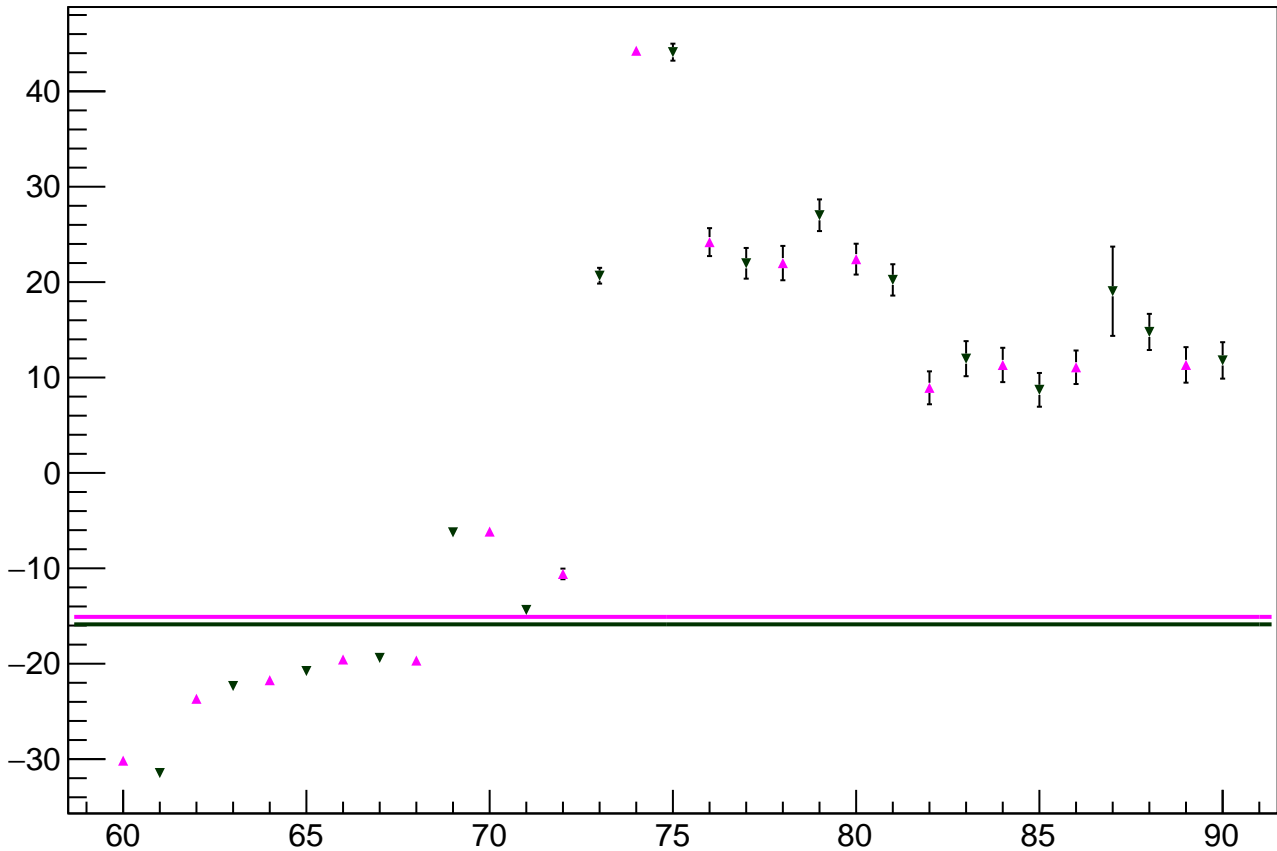
24.667+/-0.856  $\chi^2$ /NDF: 768.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 22.848+/-0.793  $\chi^2$ /NDF:411.7/14

22.848+/-0.793  $\chi^2$ /NDF: 411.7/14

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-15.875+/-0.120  $\chi^2$ /NDF: 12660.7/15

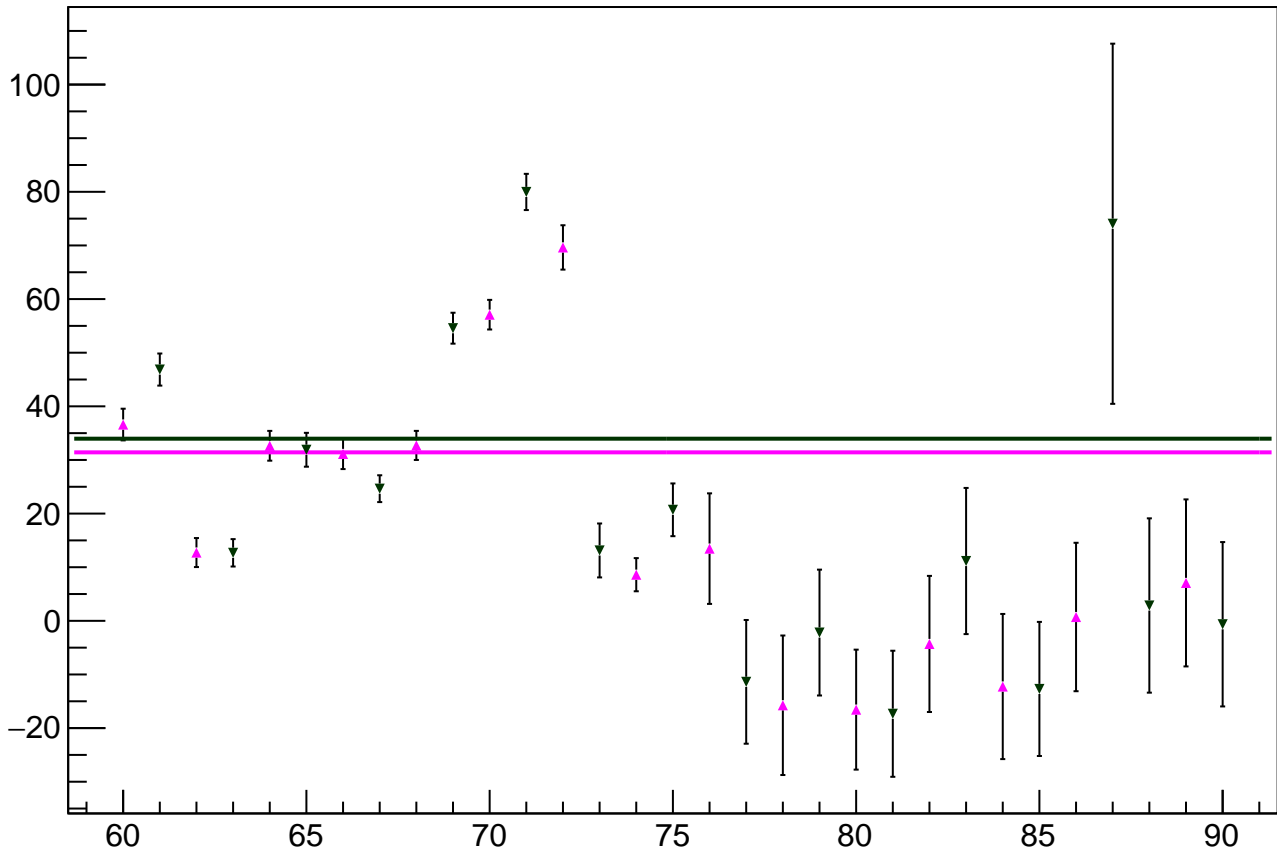
Left Out: -15.875+/-0.120  $\chi^2$ /NDF:12660.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-15.090+/-0.110  $\chi^2$ /NDF: 21195.5/14

Left In: -15.090+/-0.110  $\chi^2$ /NDF:21195.5/14

# reg\_asym\_atl1r2\_avg\_diff\_bpm4eY\_slope vs slug

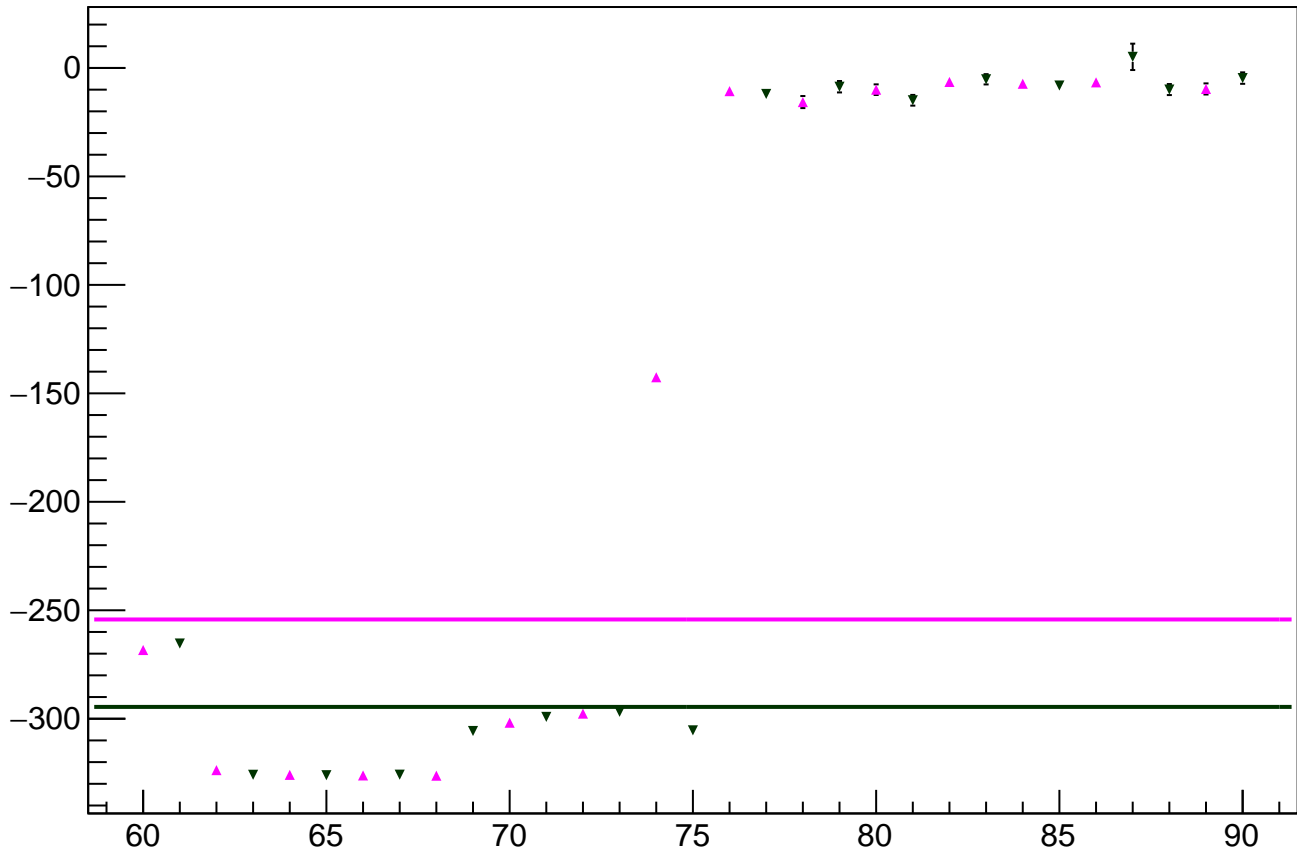


Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 33.966+/-1.080  $\chi^2$ /NDF:434.4/15  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 31.418+/-1.010  $\chi^2$ /NDF:337.7/14

33.966+/-1.080  $\chi^2$ /NDF: 434.4/15  
 31.418+/-1.010  $\chi^2$ /NDF: 337.7/14



# reg\_asym\_atl1r2\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -294.548+/-0.189  $\chi^2$ /NDF:121875.3/15

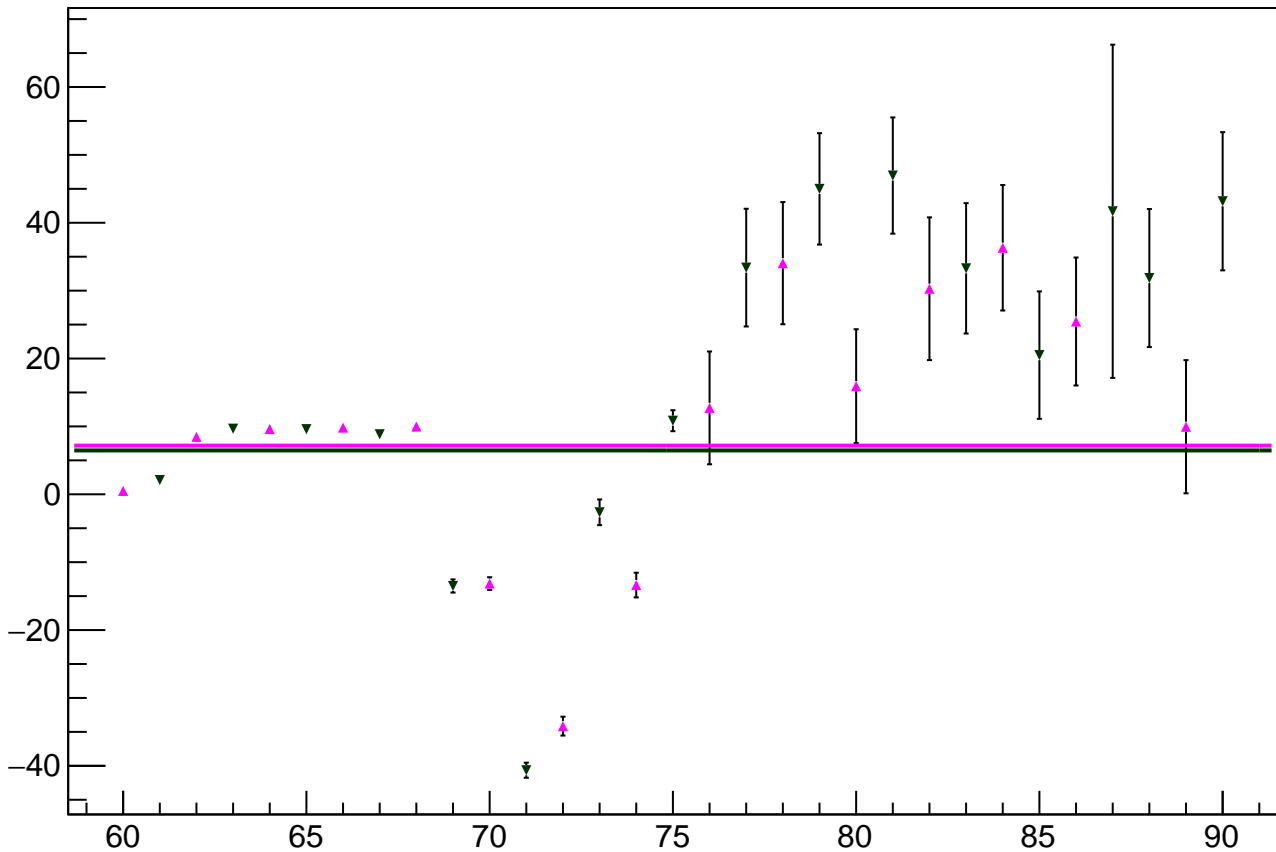
-294.548+/-0.189  $\chi^2$ /NDF: 121875.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-254.241+/-0.167  $\chi^2$ /NDF: 302002.4/14

Left In: -254.241+/-0.167  $\chi^2$ /NDF:302002.4/14

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

6.460+/-0.186  $\chi^2/\text{NDF}$ : 2580.0/15

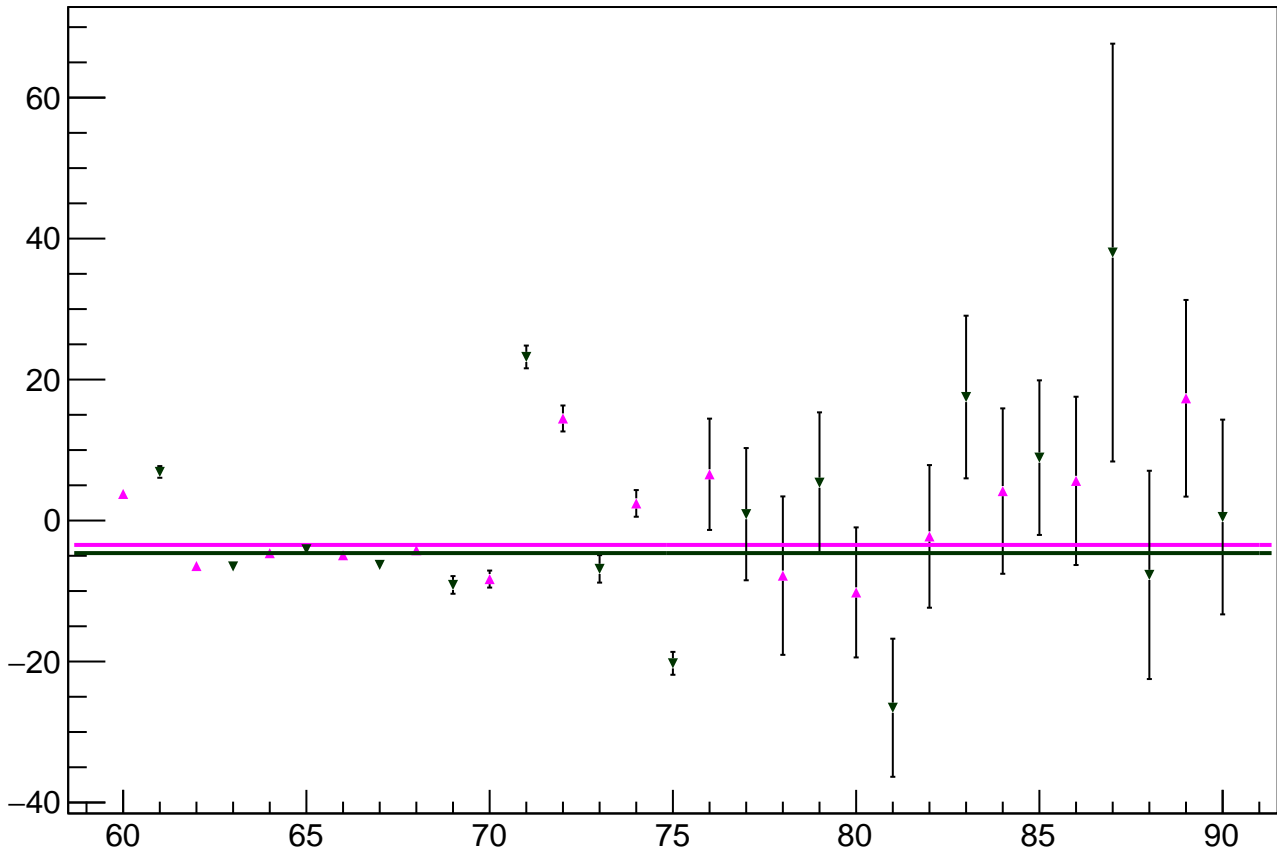
Left Out: 6.460+/-0.186  $\chi^2/\text{NDF}$ : 2580.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

7.168+/-0.170  $\chi^2/\text{NDF}$ : 1836.7/14

Left In: 7.168+/-0.170  $\chi^2/\text{NDF}$ : 1836.7/14

# reg\_asym\_atl1r2\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-4.617+/-0.230  $\chi^2$ /NDF: 649.9/15

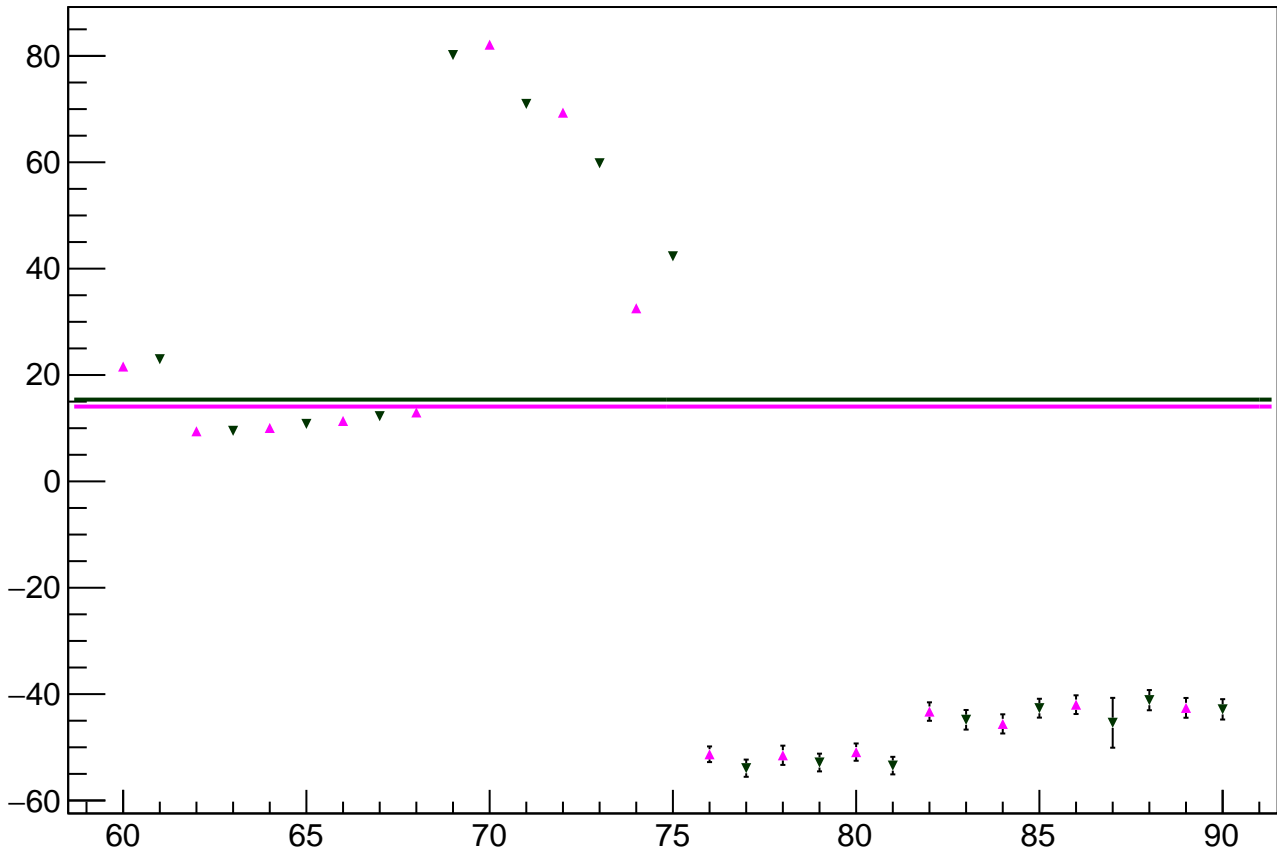
Left Out: -4.617+/-0.230  $\chi^2$ /NDF: 649.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-3.458+/-0.211  $\chi^2$ /NDF: 359.4/14

Left In: -3.458+/-0.211  $\chi^2$ /NDF: 359.4/14

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 15.378+/-0.031  $\chi^2/\text{NDF}$ :239578.2/15

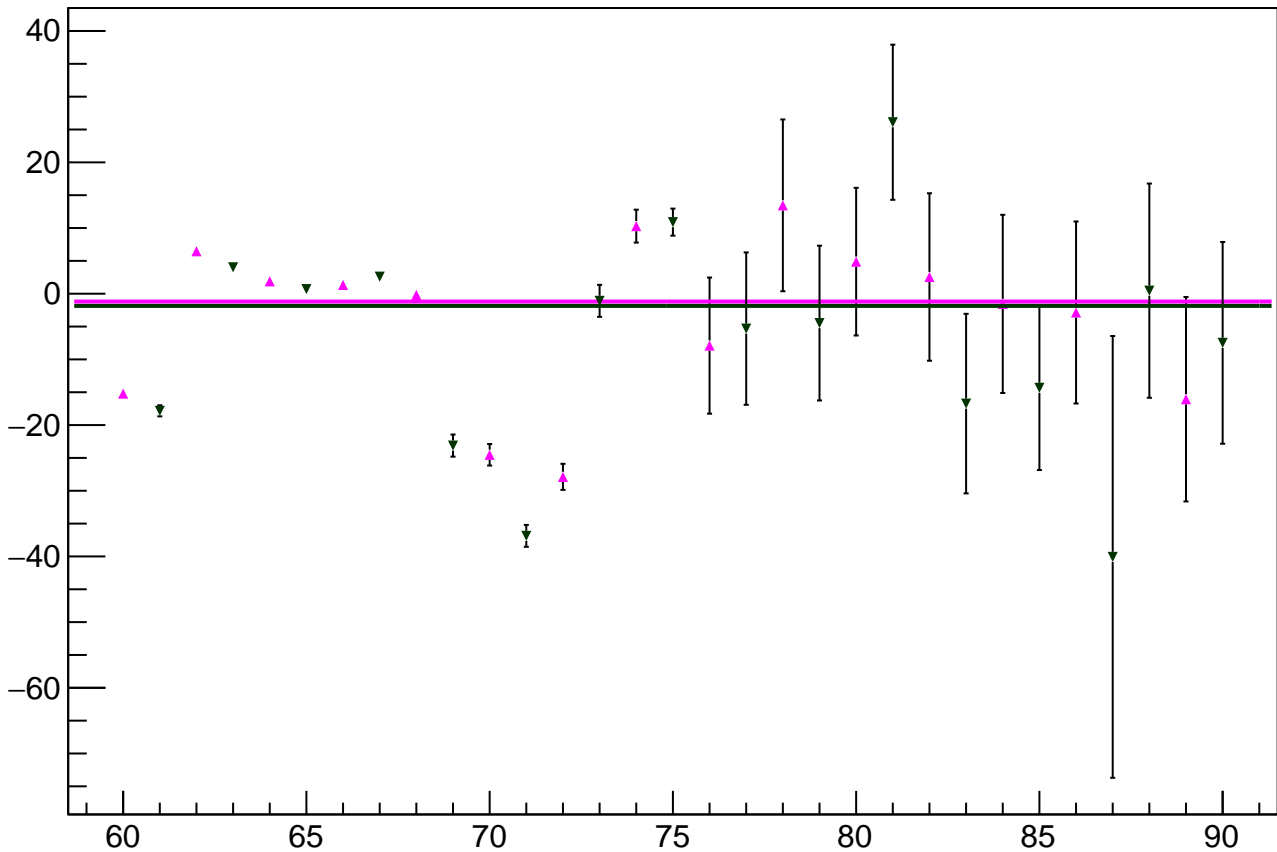
15.378+/-0.031  $\chi^2/\text{NDF}$ : 239578.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

14.068+/-0.028  $\chi^2/\text{NDF}$ : 203695.6/14

Left In: 14.068+/-0.028  $\chi^2/\text{NDF}$ :203695.6/14

# reg\_asym\_atl1r2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1.856+/-0.298  $\chi^2$ /NDF:1199.3/15

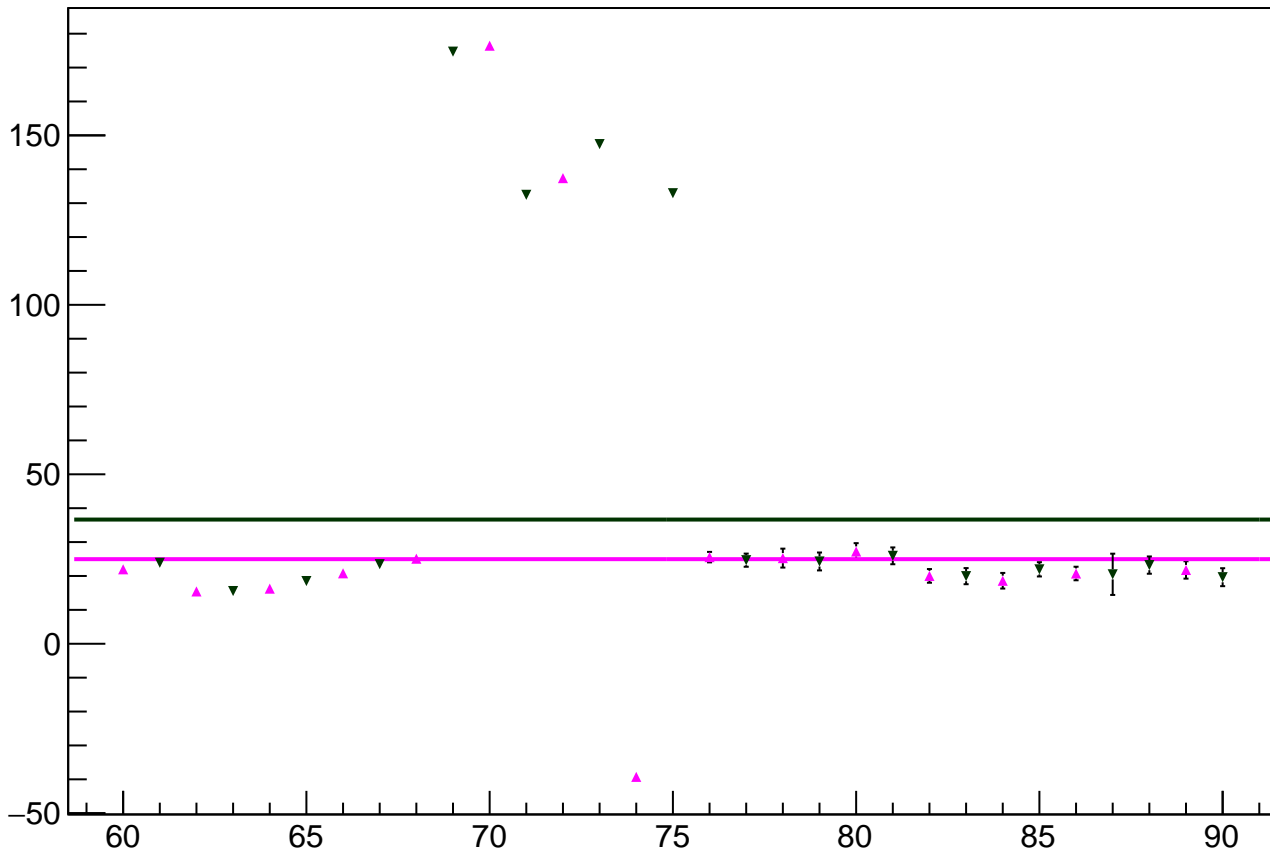
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.193+/-0.273  $\chi^2$ /NDF:1013.0/14

-1.856+/-0.298  $\chi^2$ /NDF: 1199.3/15

-1.193+/-0.273  $\chi^2$ /NDF: 1013.0/14

# reg\_asym\_atl1r2\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 36.645+/-0.054  $\chi^2/\text{NDF}$ : 662120.4/15

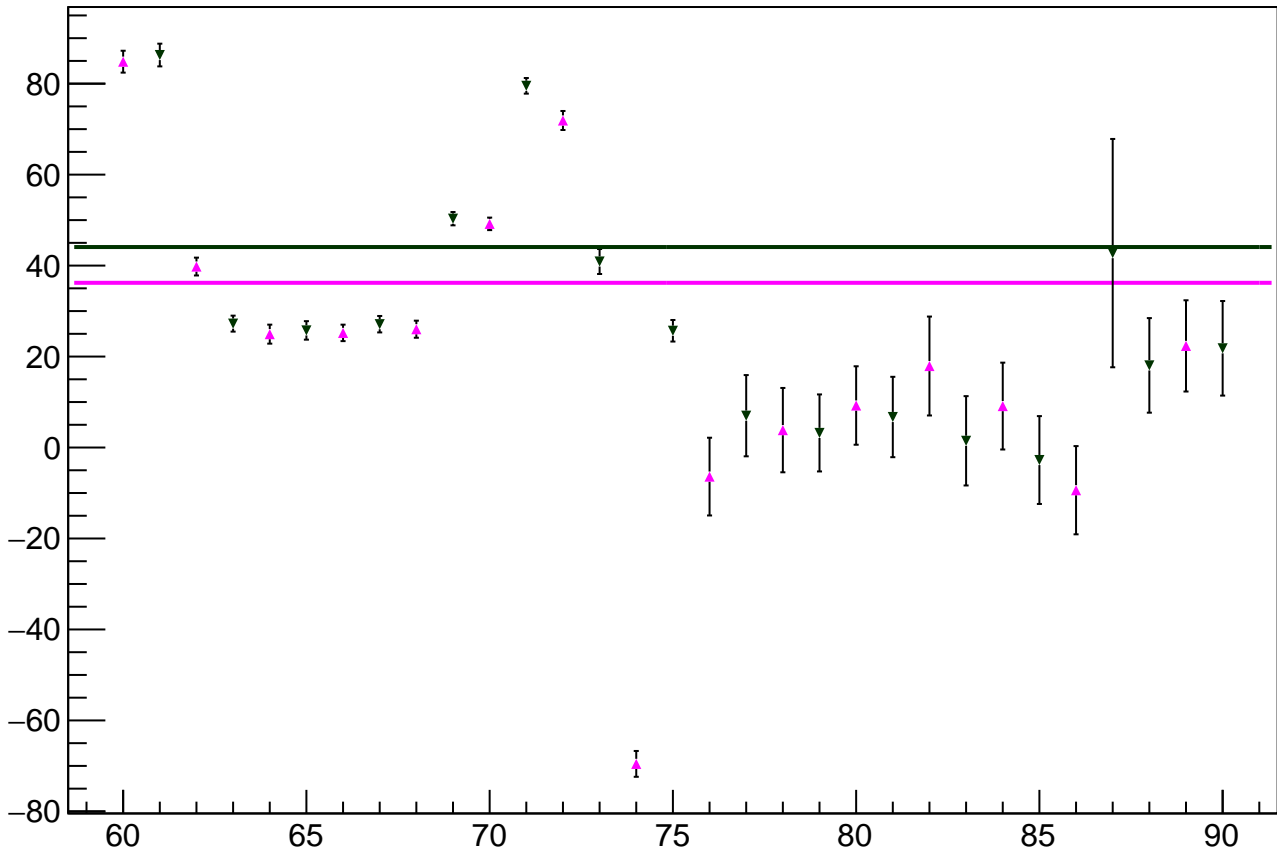
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 24.961+/-0.049  $\chi^2/\text{NDF}$ : 454355.2/14

36.645+/-0.054  $\chi^2/\text{NDF}$ : 662120.4/15

24.961+/-0.049  $\chi^2/\text{NDF}$ : 454355.2/14

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 44.081+/-0.670  $\chi^2/\text{NDF}$ :1164.8/15

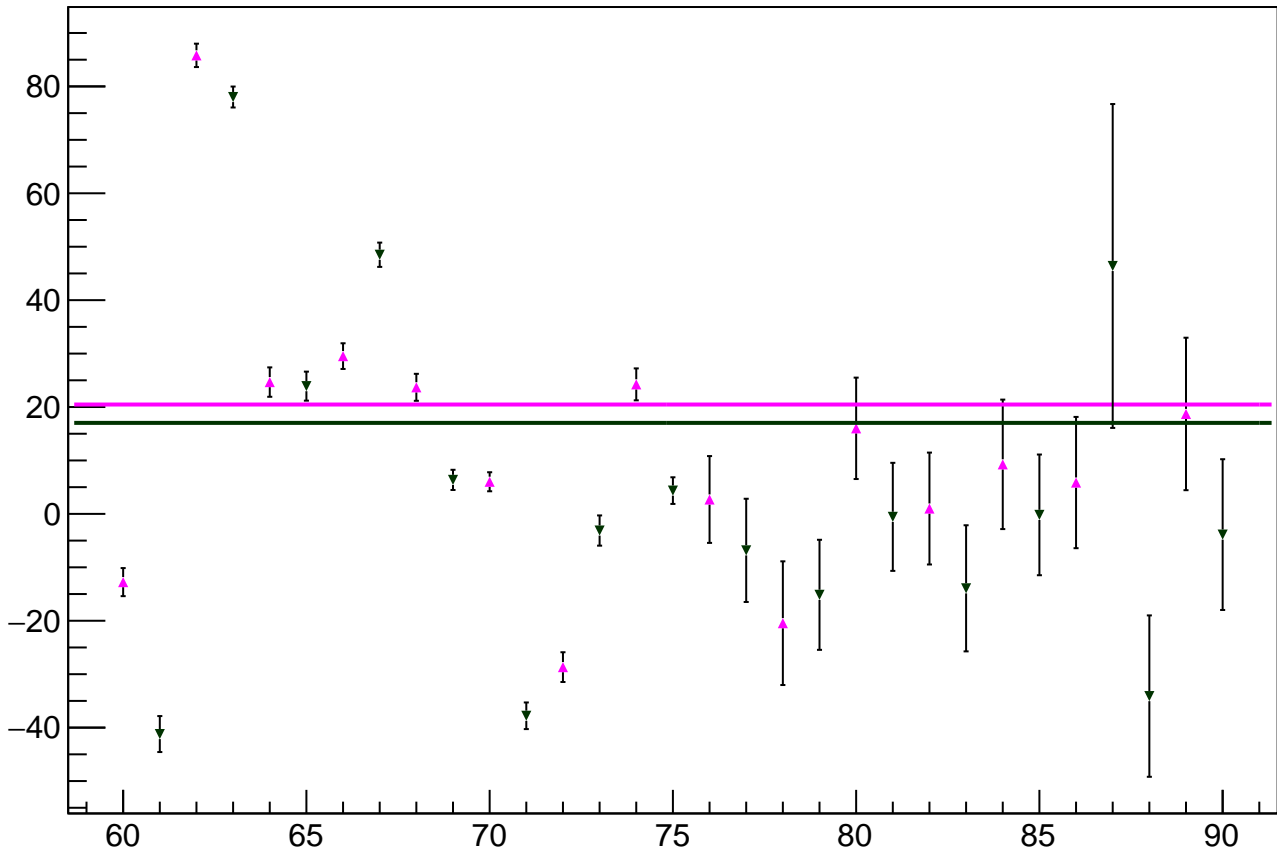
44.081+/-0.670  $\chi^2/\text{NDF}$ : 1164.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 36.216+/-0.672  $\chi^2/\text{NDF}$ :2357.4/14

36.216+/-0.672  $\chi^2/\text{NDF}$ : 2357.4/14

# reg\_asym\_atr1l2\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 17.031+/-0.827  $\chi^2$ /NDF:2100.6/15

17.031+/-0.827  $\chi^2$ /NDF: 2100.6/15

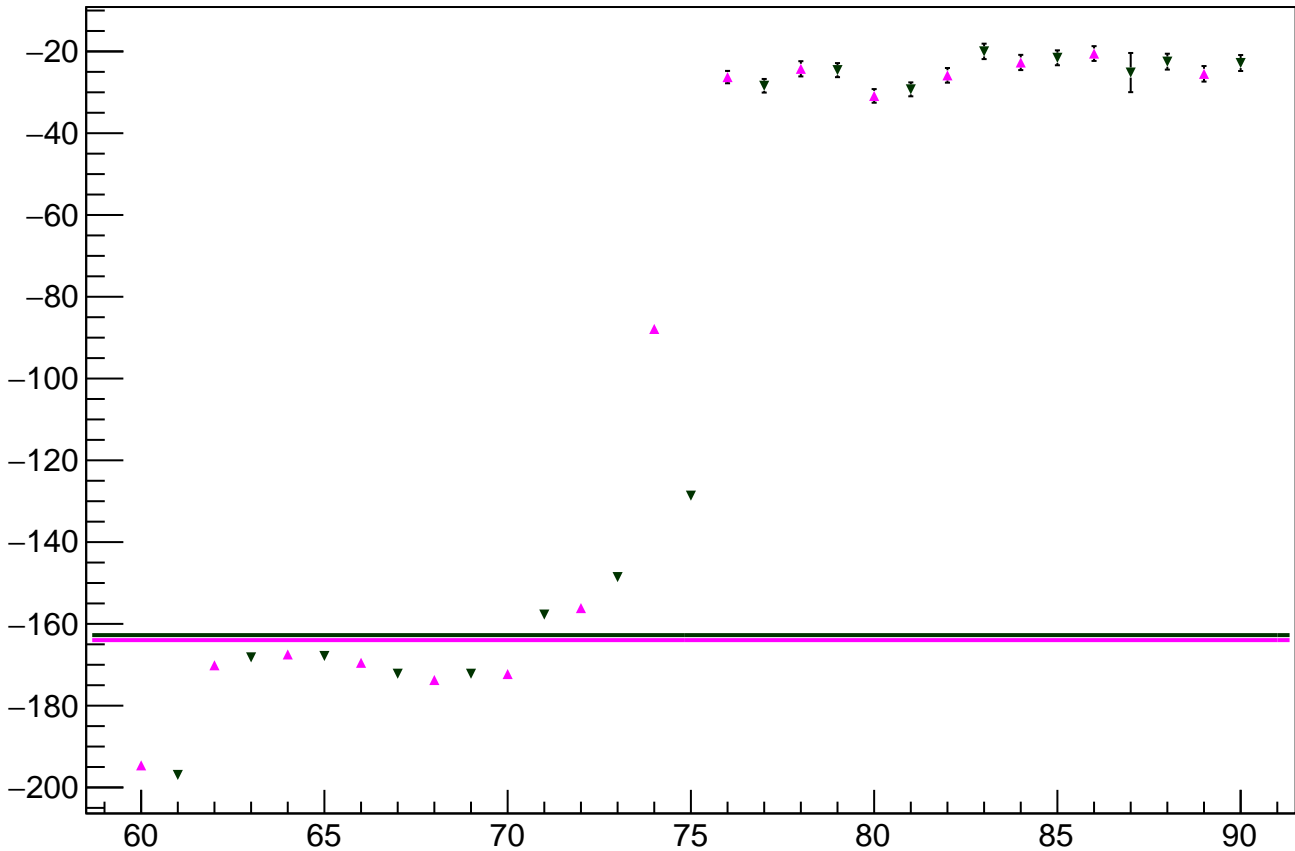
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 20.467+/-0.835  $\chi^2$ /NDF:1472.1/14

20.467+/-0.835  $\chi^2$ /NDF: 1472.1/14



# reg\_asym\_atr1l2\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-162.746+/-0.122  $\chi^2$ /NDF: 54739.1/15

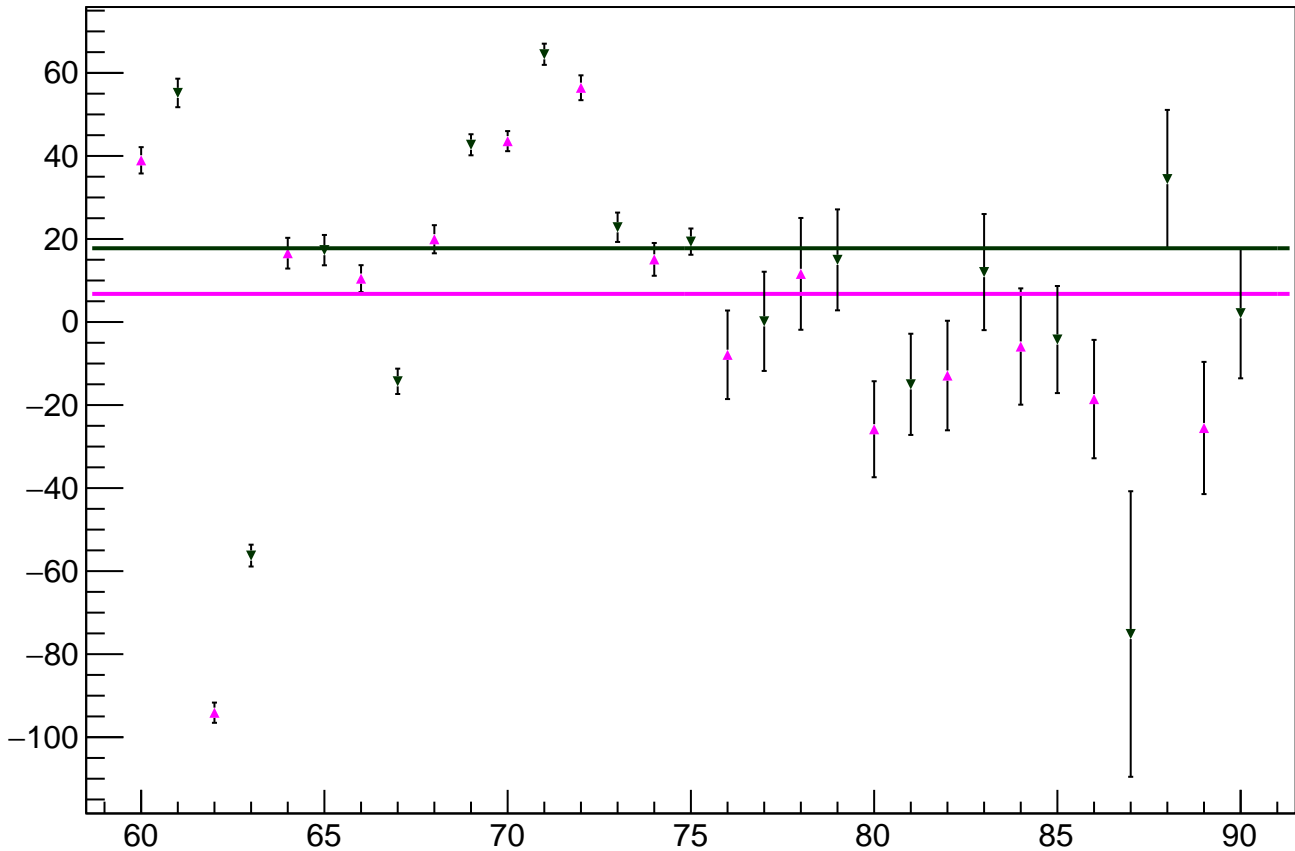
Left Out: -162.746+/-0.122  $\chi^2$ /NDF: 54739.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-163.974+/-0.120  $\chi^2$ /NDF: 64850.2/14

Left In: -163.974+/-0.120  $\chi^2$ /NDF: 64850.2/14

# reg\_asym\_atr1l2\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

17.766+/-1.031  $\chi^2$ /NDF: 1475.8/15

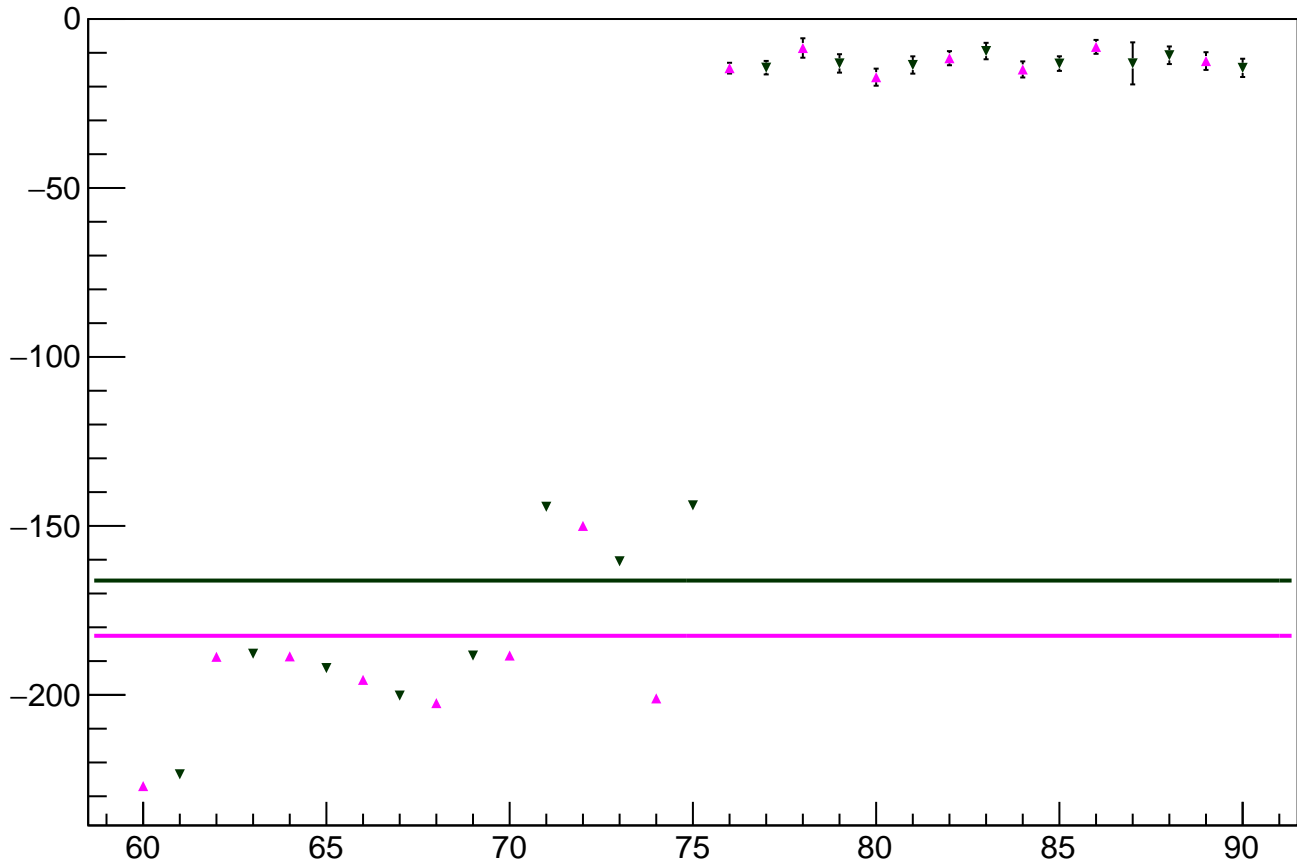
Left Out: 17.766+/-1.031  $\chi^2$ /NDF:1475.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

6.775+/-1.047  $\chi^2$ /NDF: 2373.2/14

Left In: 6.775+/-1.047  $\chi^2$ /NDF:2373.2/14

# reg\_asym\_atr1l2\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-166.168+/-0.171  $\chi^2$ /NDF: 51899.6/15

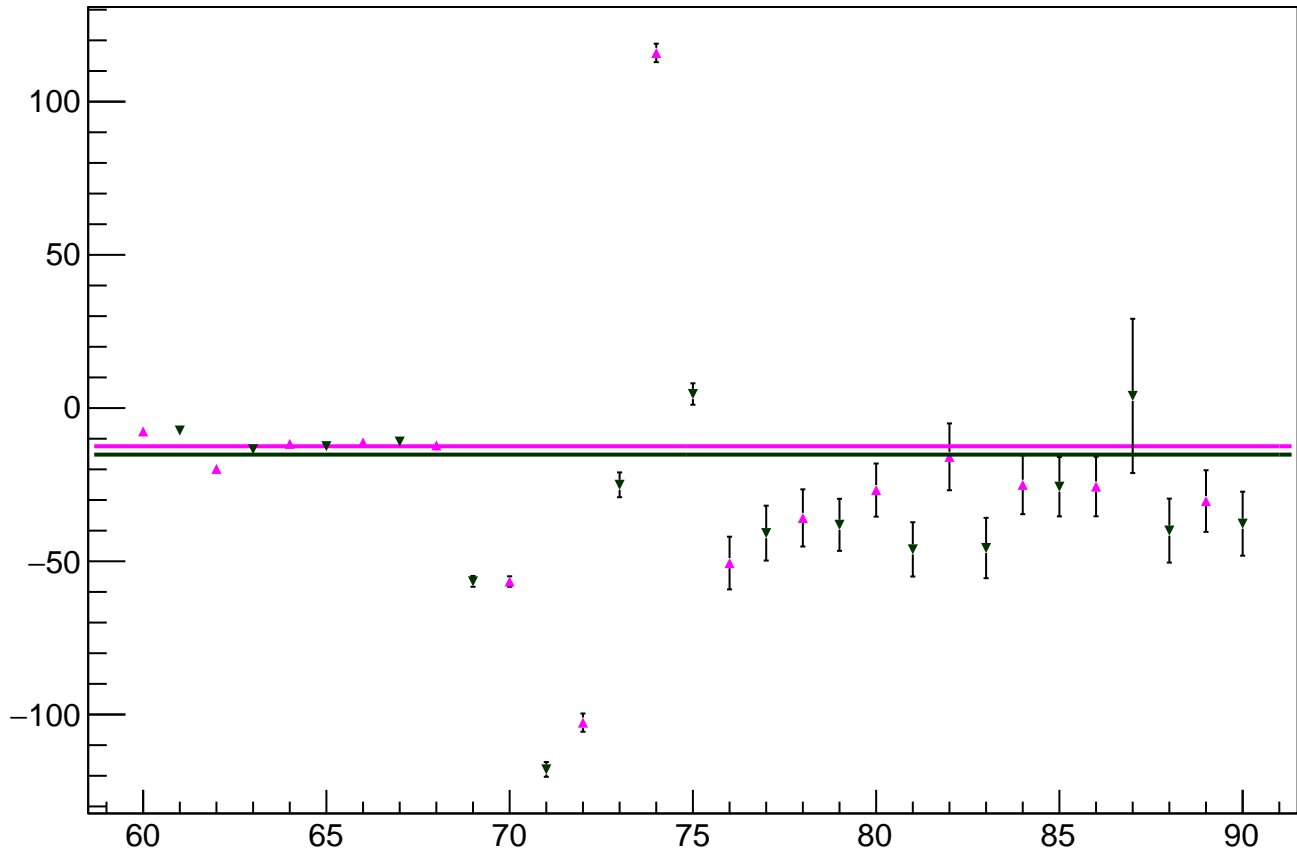
Left Out: -166.168+/-0.171  $\chi^2$ /NDF: 51899.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-182.513+/-0.179  $\chi^2$ /NDF: 56901.6/14

Left In: -182.513+/-0.179  $\chi^2$ /NDF: 56901.6/14

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-15.189+/-0.387  $\chi^2$ /NDF: 2658.8/15

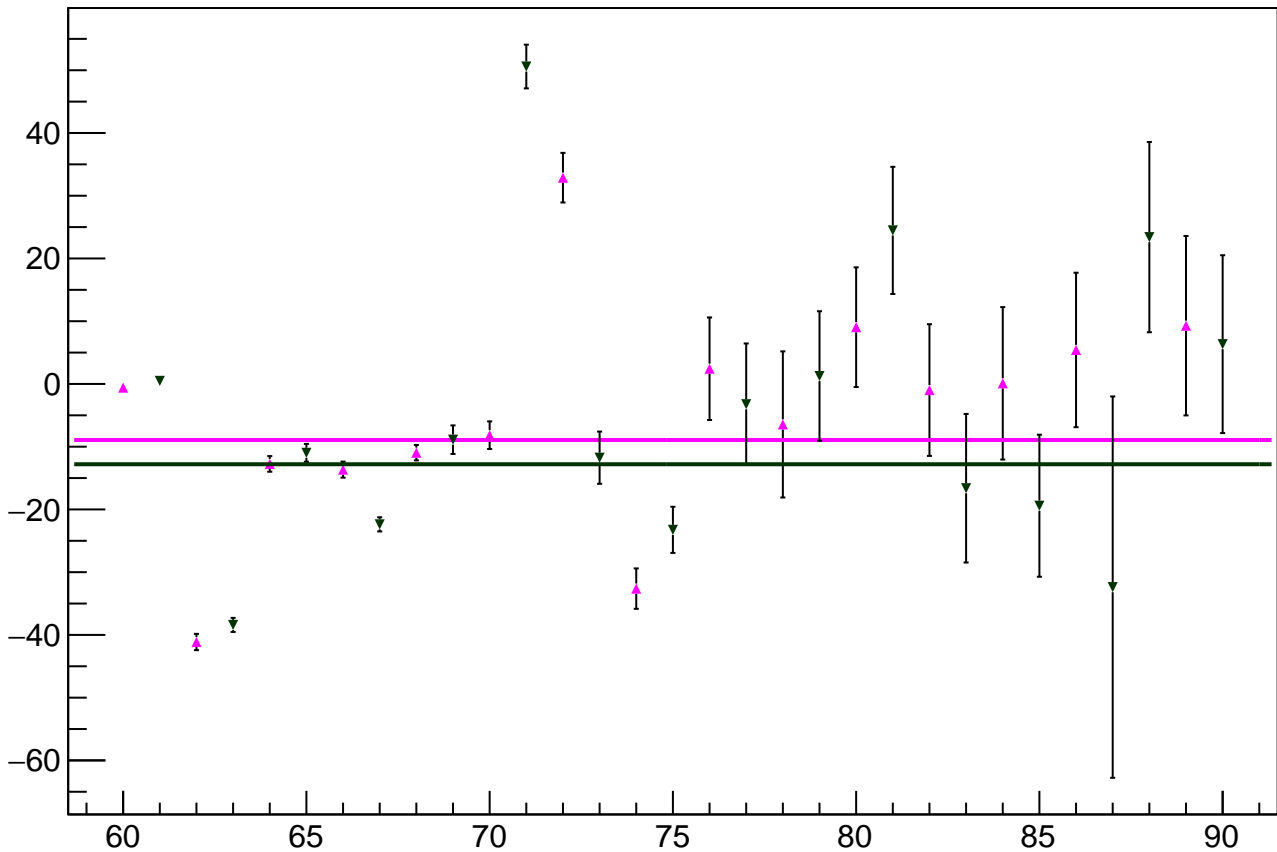
Left Out: -15.189+/-0.387  $\chi^2$ /NDF:2658.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-12.462+/-0.354  $\chi^2$ /NDF: 3557.6/14

Left In: -12.462+/-0.354  $\chi^2$ /NDF:3557.6/14

# reg\_asym\_atr1l2\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-12.798+/-0.493  $\chi^2$ /NDF: 1237.9/15

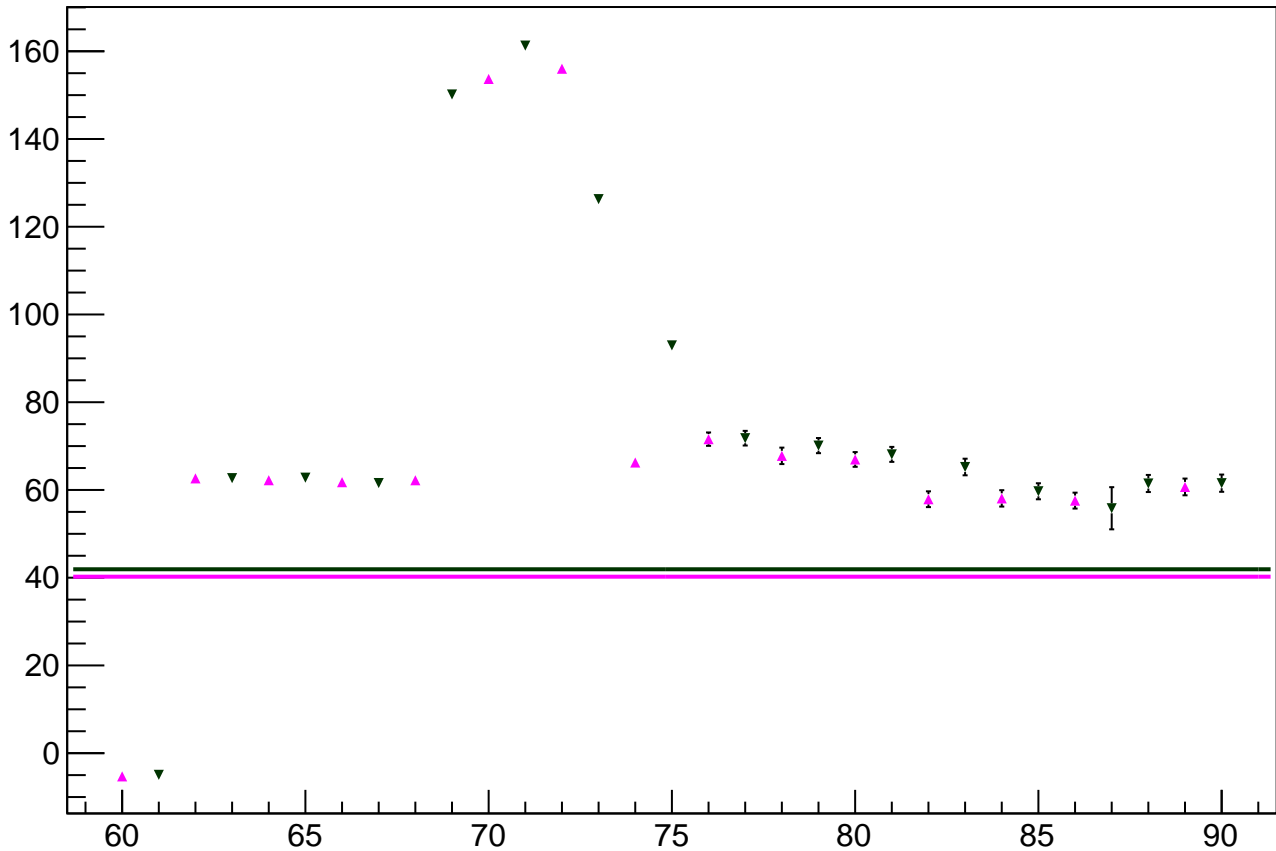
Left Out: -12.798+/-0.493  $\chi^2$ /NDF:1237.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-8.936+/-0.413  $\chi^2$ /NDF: 1020.0/14

Left In: -8.936+/-0.413  $\chi^2$ /NDF:1020.0/14

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 41.922+/-0.067  $\chi^2$ /NDF:428524.0/15

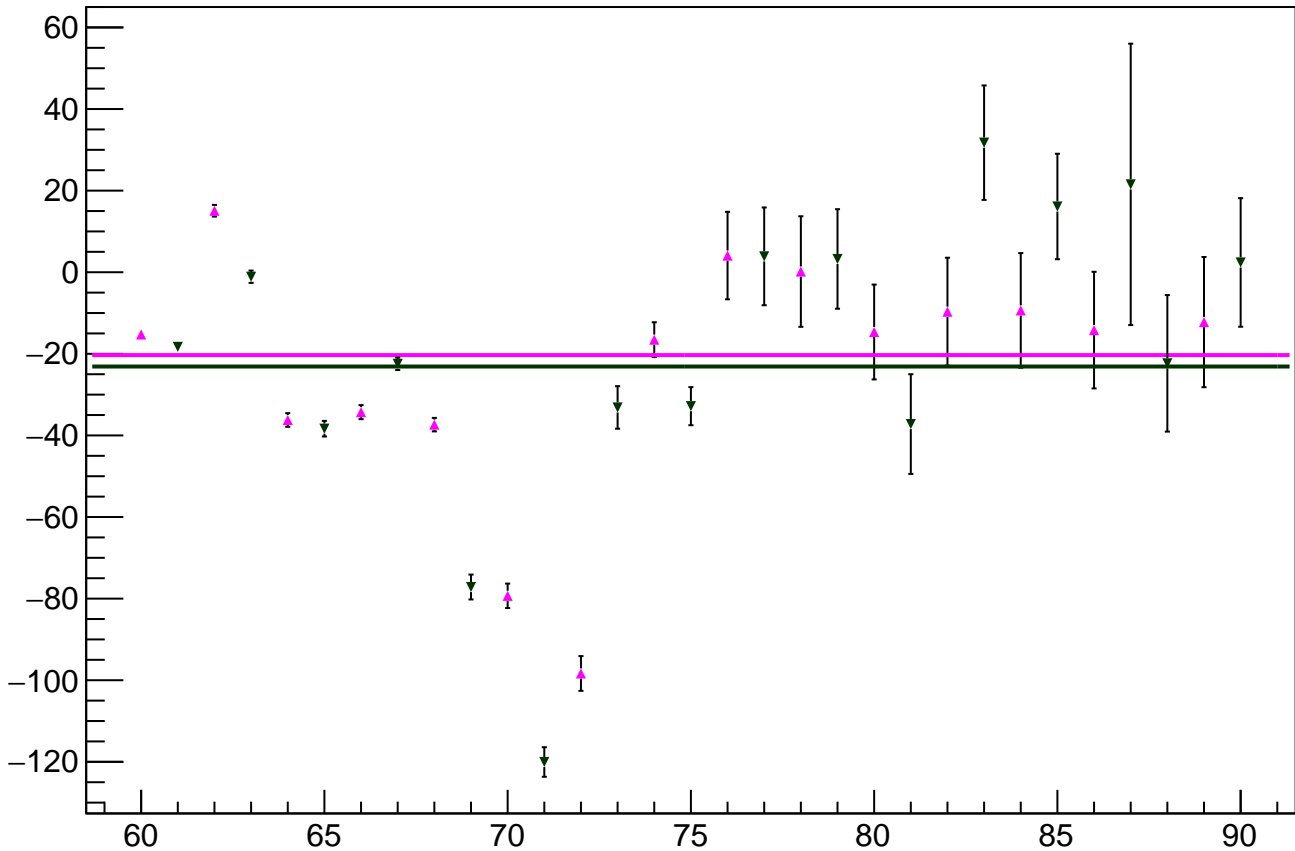
41.922+/-0.067  $\chi^2$ /NDF: 428524.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 40.229+/-0.060  $\chi^2$ /NDF:450910.5/14

40.229+/-0.060  $\chi^2$ /NDF: 450910.5/14

# reg\_asym\_atr1l2\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -23.112+/-0.581  $\chi^2$ /NDF:1388.3/15

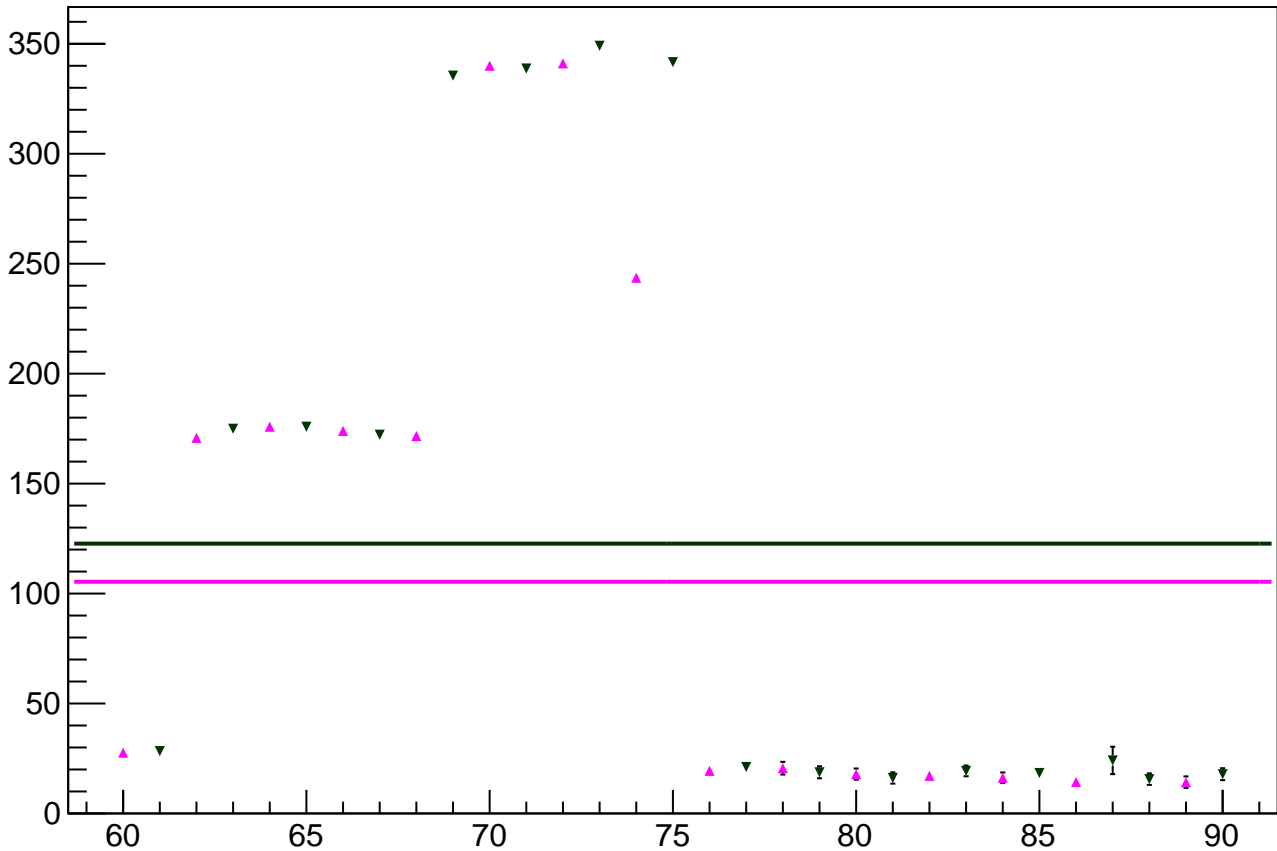
-23.112+/-0.581  $\chi^2$ /NDF: 1388.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -20.308+/-0.521  $\chi^2$ /NDF:1654.3/14

-20.308+/-0.521  $\chi^2$ /NDF: 1654.3/14

# reg\_asym\_atr1l2\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

122.705+/-0.107  $\chi^2/\text{NDF}$ : 990819.8/15

Left Out: 122.705+/-0.107  $\chi^2/\text{NDF}$ : 990819.8/15

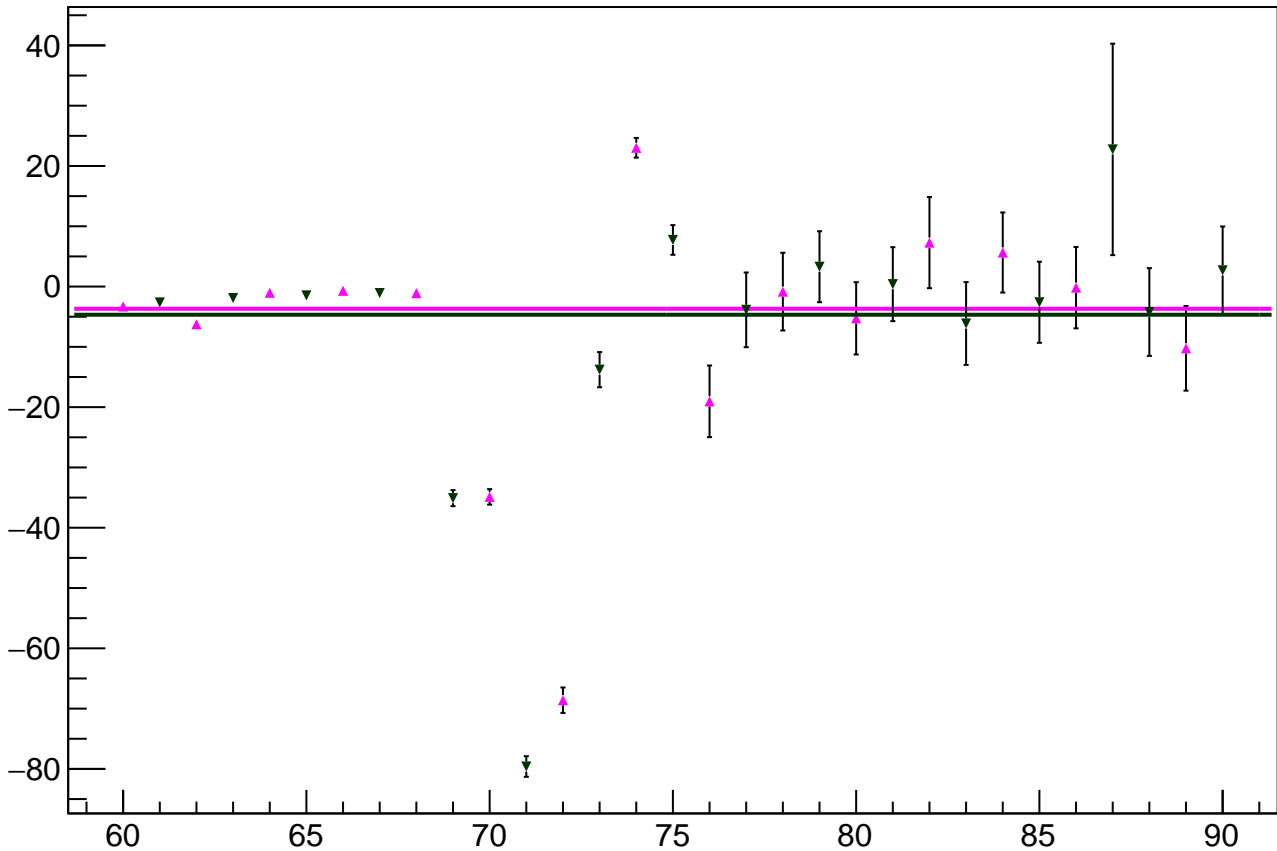
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

105.356+/-0.093  $\chi^2/\text{NDF}$ : 978106.9/14

Left In: 105.356+/-0.093  $\chi^2/\text{NDF}$ : 978106.9/14



# reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.672+/-0.247  $\chi^2$ /NDF:2612.4/15

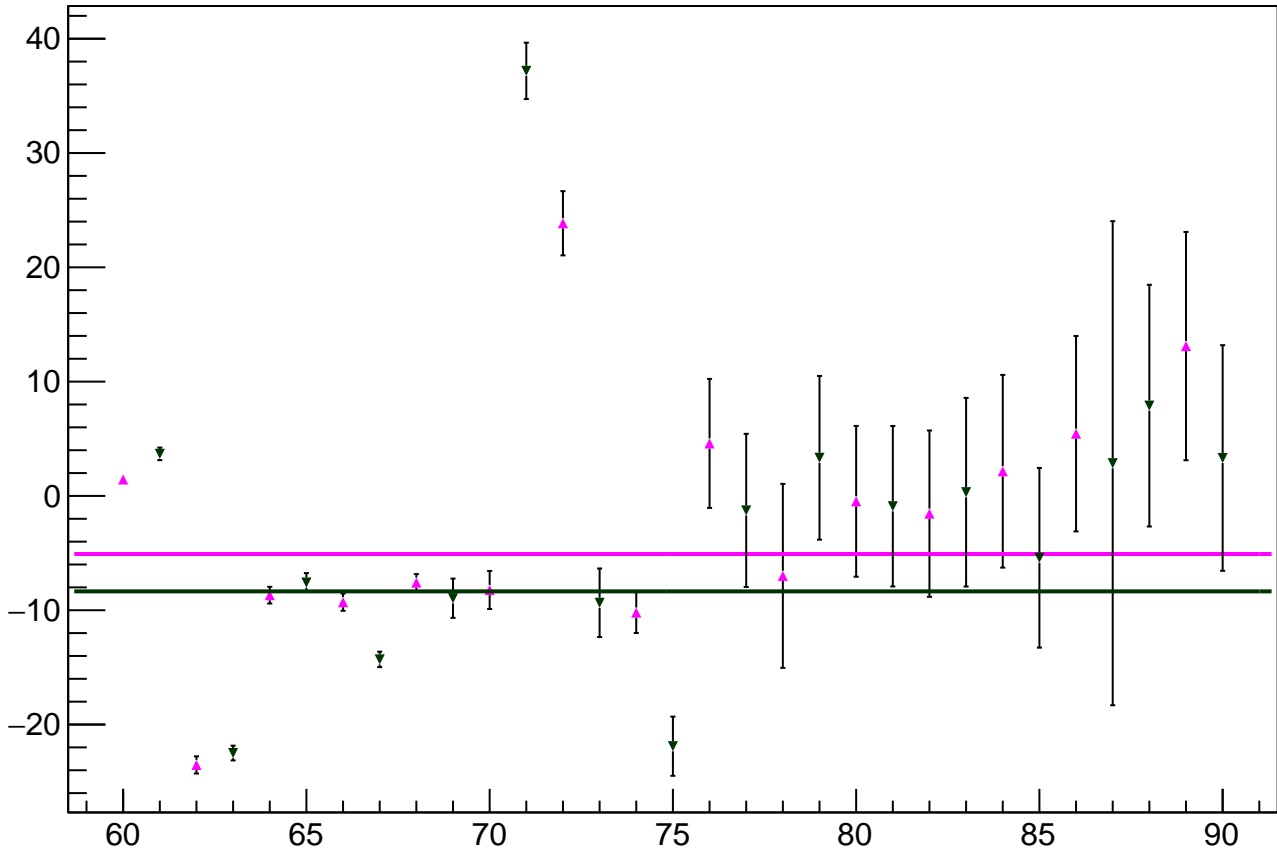
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -3.688+/-0.224  $\chi^2$ /NDF:1903.2/14

-4.672+/-0.247  $\chi^2$ /NDF: 2612.4/15

-3.688+/-0.224  $\chi^2$ /NDF: 1903.2/14

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -8.350+/-0.313  $\chi^2$ /NDF:1414.8/15

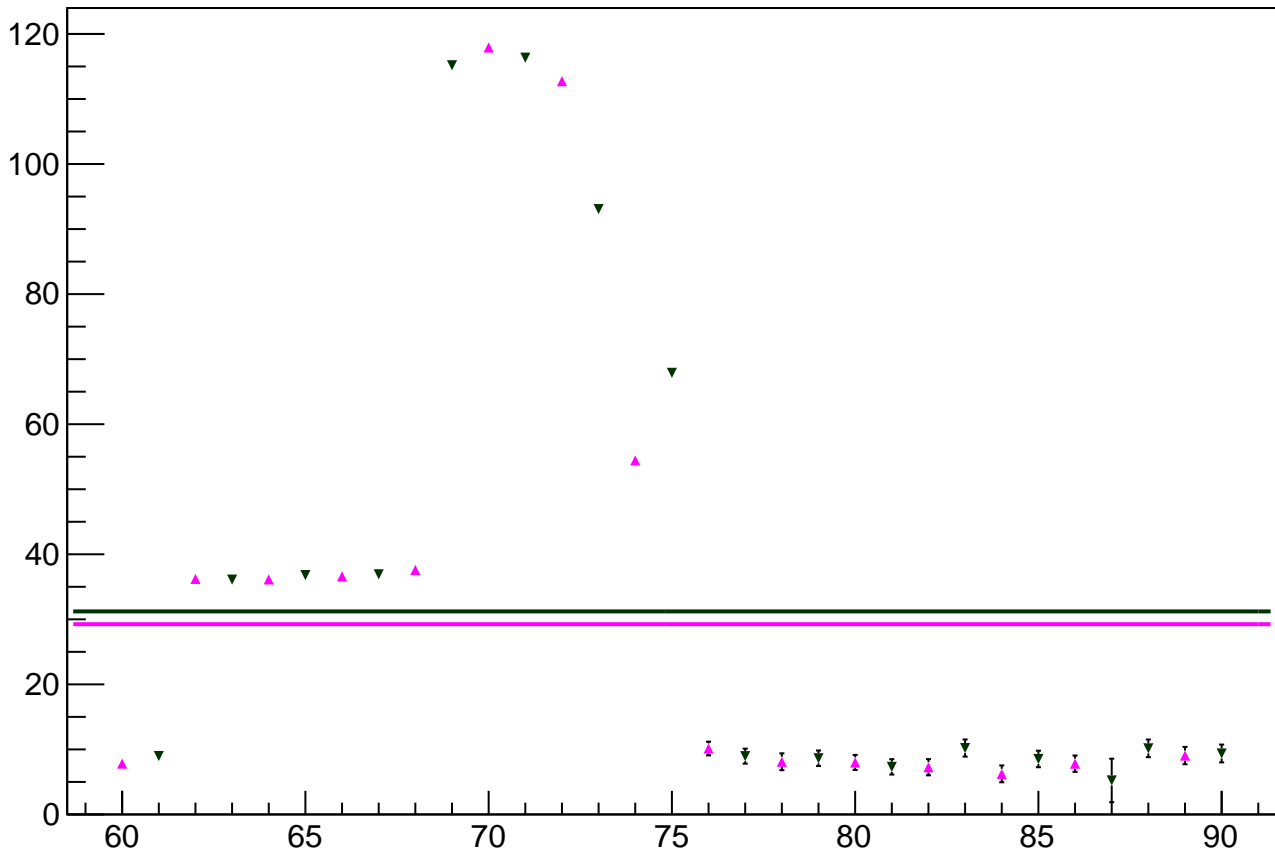
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -5.082+/-0.252  $\chi^2$ /NDF:1120.8/14

-8.350+/-0.313  $\chi^2$ /NDF: 1414.8/15

-5.082+/-0.252  $\chi^2$ /NDF: 1120.8/14

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 31.217+/-0.042  $\chi^2/\text{NDF}$ :294380.7/15

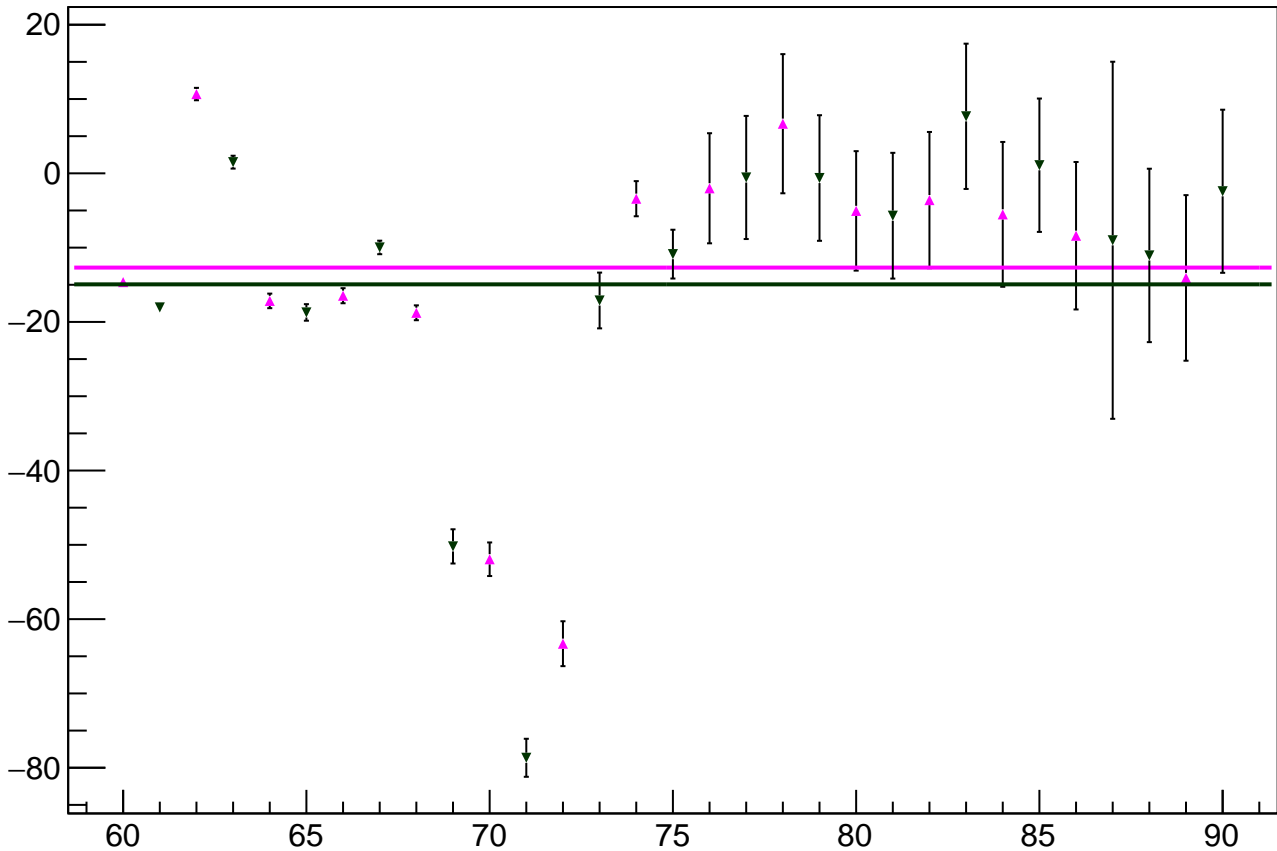
31.217+/-0.042  $\chi^2/\text{NDF}$ : 294380.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

29.253+/-0.037  $\chi^2/\text{NDF}$ : 303160.5/14

Left In: 29.253+/-0.037  $\chi^2/\text{NDF}$ :303160.5/14

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-14.942+/-0.375  $\chi^2$ /NDF: 1306.0/15

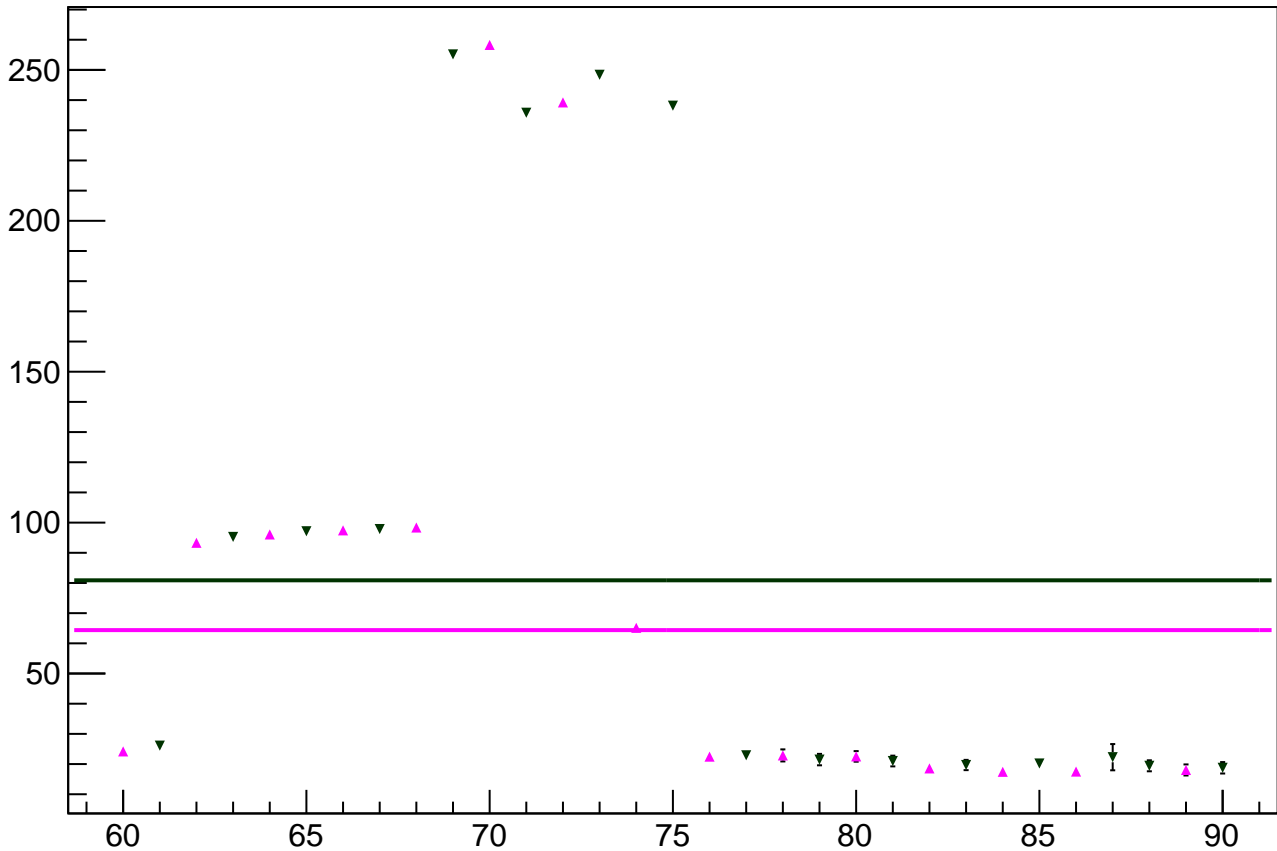
Left Out: -14.942+/-0.375  $\chi^2$ /NDF:1306.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-12.686+/-0.329  $\chi^2$ /NDF: 1476.7/14

Left In: -12.686+/-0.329  $\chi^2$ /NDF:1476.7/14

# reg\_asym\_atl\_dd\_atr\_dd\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

80.881+/-0.069  $\chi^2/\text{NDF}$ : 852145.3/15

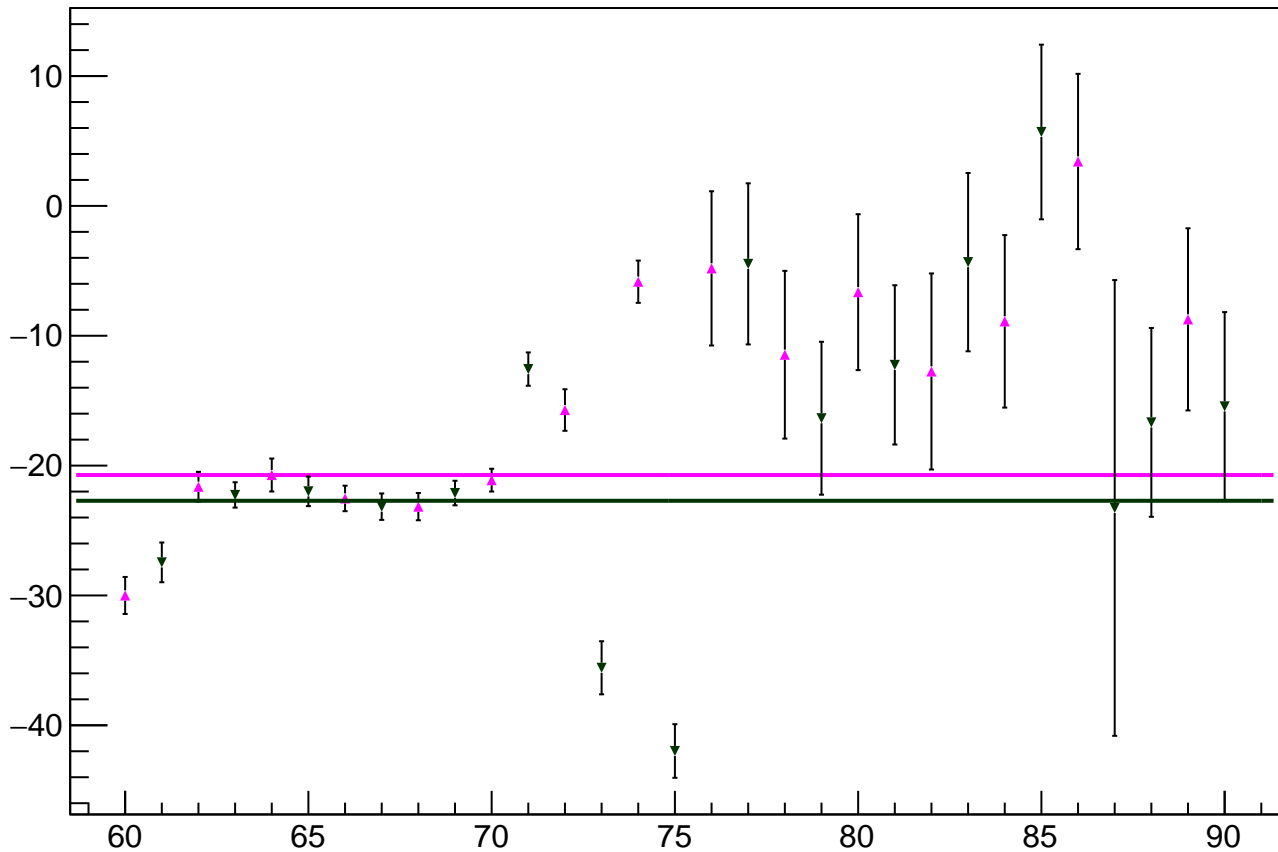
Left Out: 80.881+/-0.069  $\chi^2/\text{NDF}$ : 852145.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

64.381+/-0.058  $\chi^2/\text{NDF}$ : 721337.6/14

Left In: 64.381+/-0.058  $\chi^2/\text{NDF}$ : 721337.6/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -22.709+/-0.423  $\chi^2$ /NDF:239.4/15

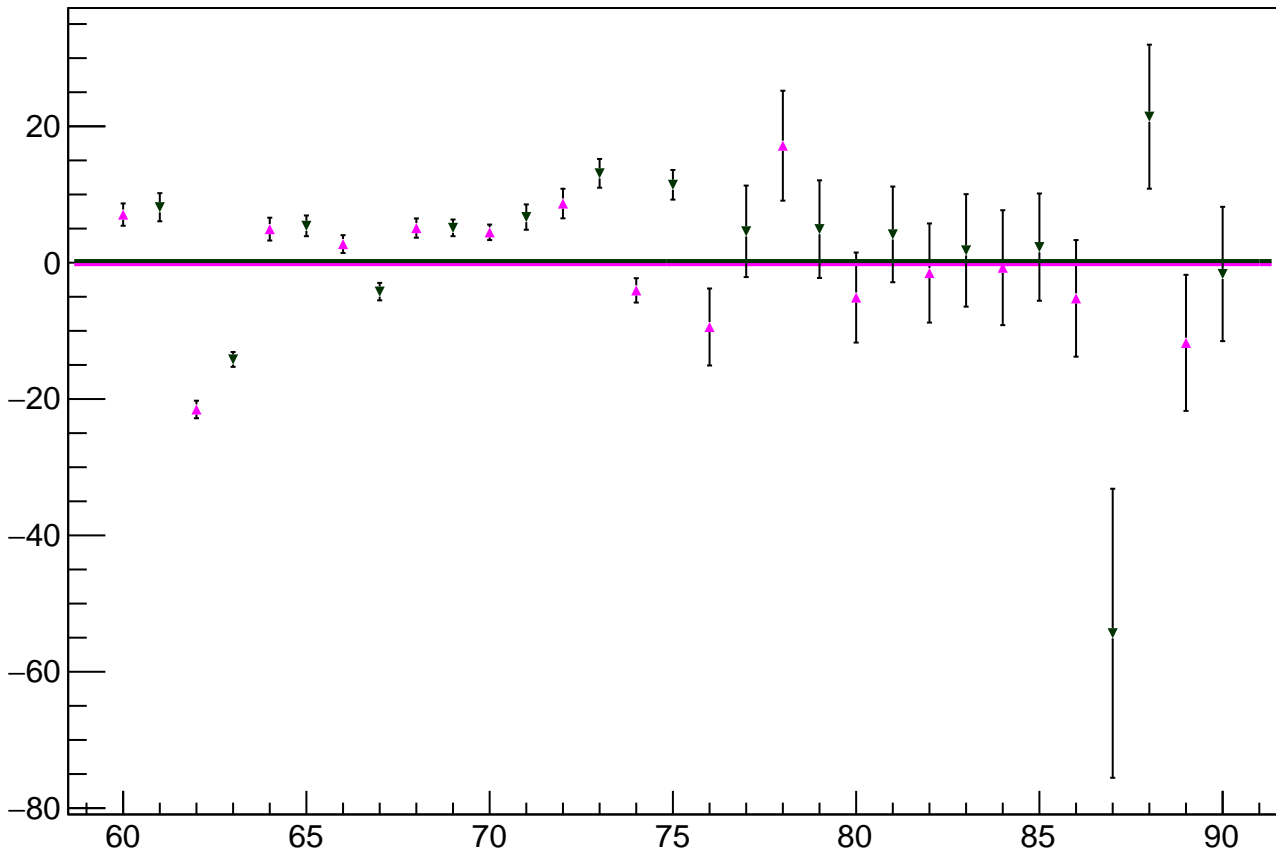
-22.709+/-0.423  $\chi^2$ /NDF: 239.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -20.727+/-0.407  $\chi^2$ /NDF:180.1/14

-20.727+/-0.407  $\chi^2$ /NDF: 180.1/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.240+/-0.525  $\chi^2$ /NDF:316.8/15

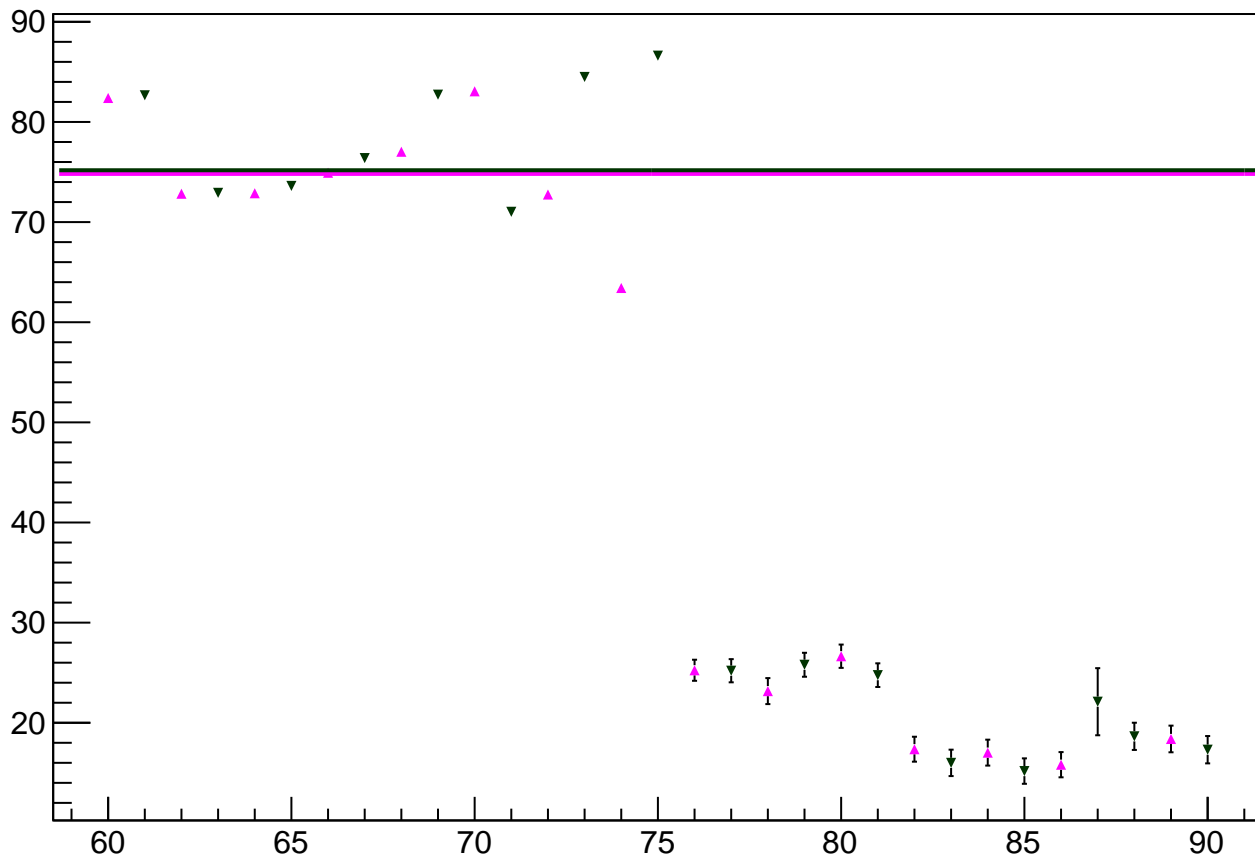
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.225+/-0.510  $\chi^2$ /NDF:370.7/14

0.240+/-0.525  $\chi^2$ /NDF: 316.8/15

-0.225+/-0.510  $\chi^2$ /NDF: 370.7/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 75.177+/-0.075  $\chi^2/\text{NDF}$ :17405.3/15

75.177+/-0.075  $\chi^2/\text{NDF}$ : 17405.3/15

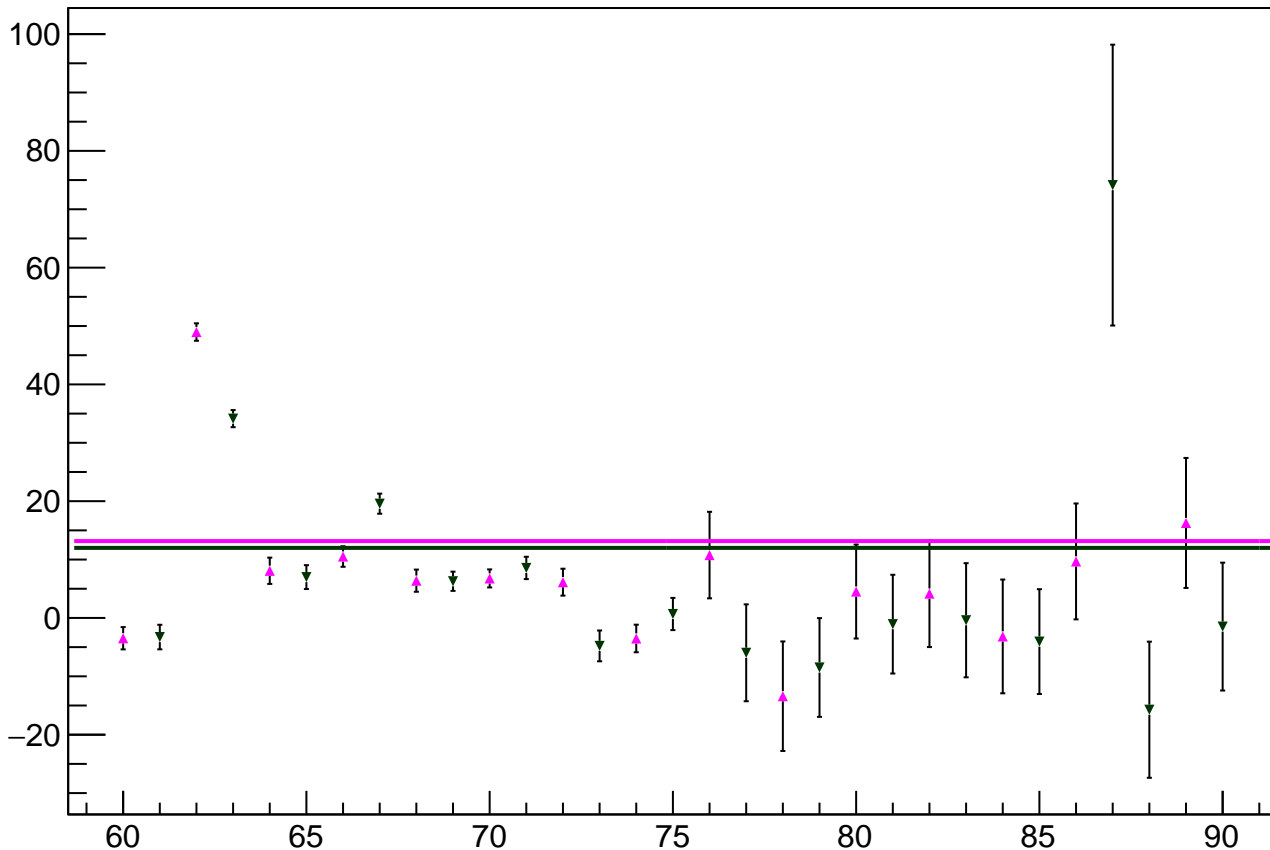
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 74.813+/-0.072  $\chi^2/\text{NDF}$ :18011.3/14

74.813+/-0.072  $\chi^2/\text{NDF}$ : 18011.3/14



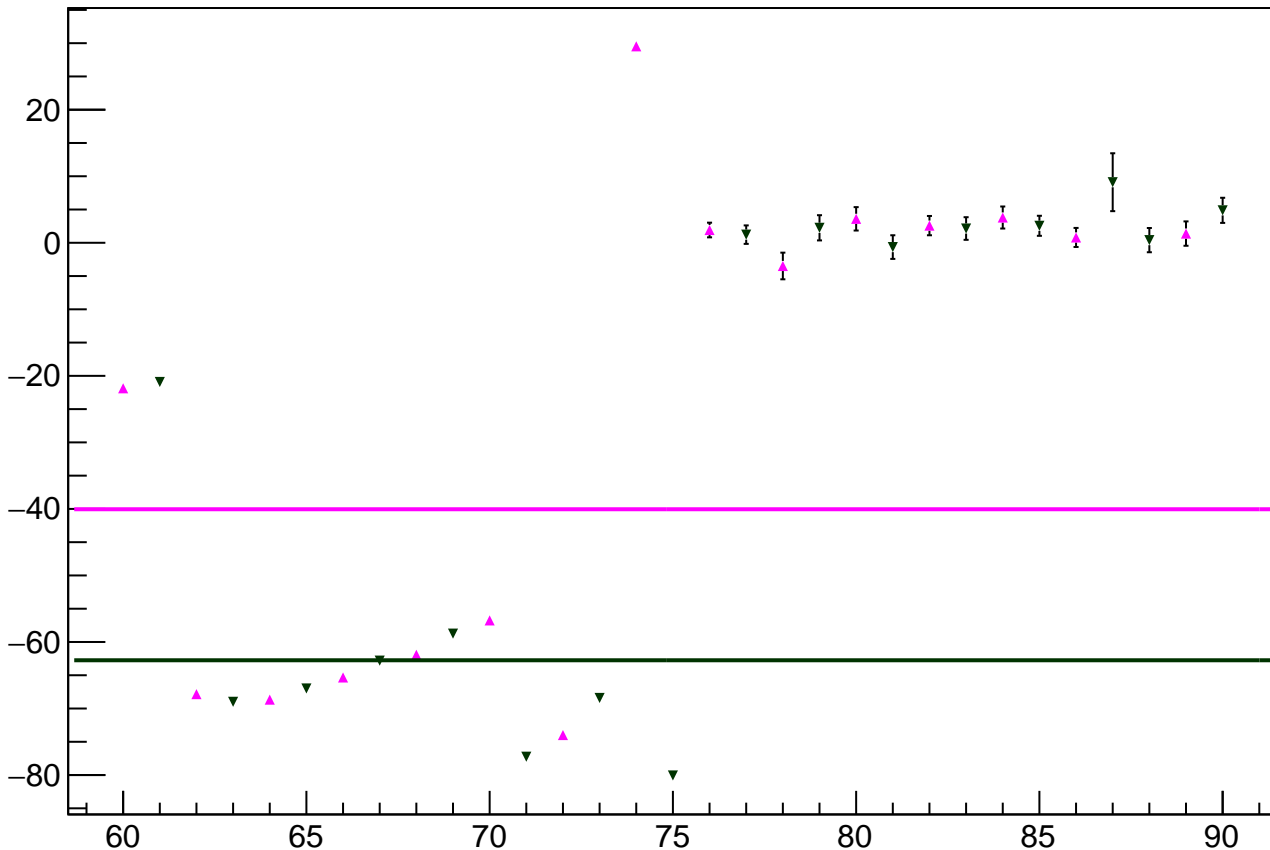
# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 12.000+/-0.664  $\chi^2$ /NDF:410.5/15  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 13.166+/-0.646  $\chi^2$ /NDF:761.5/14

12.000+/-0.664  $\chi^2$ /NDF: 410.5/15  
 13.166+/-0.646  $\chi^2$ /NDF: 761.5/14

# reg\_asym\_atl\_dd\_atr\_dd\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -62.748+/-0.113  $\chi^2$ /NDF:27489.7/15

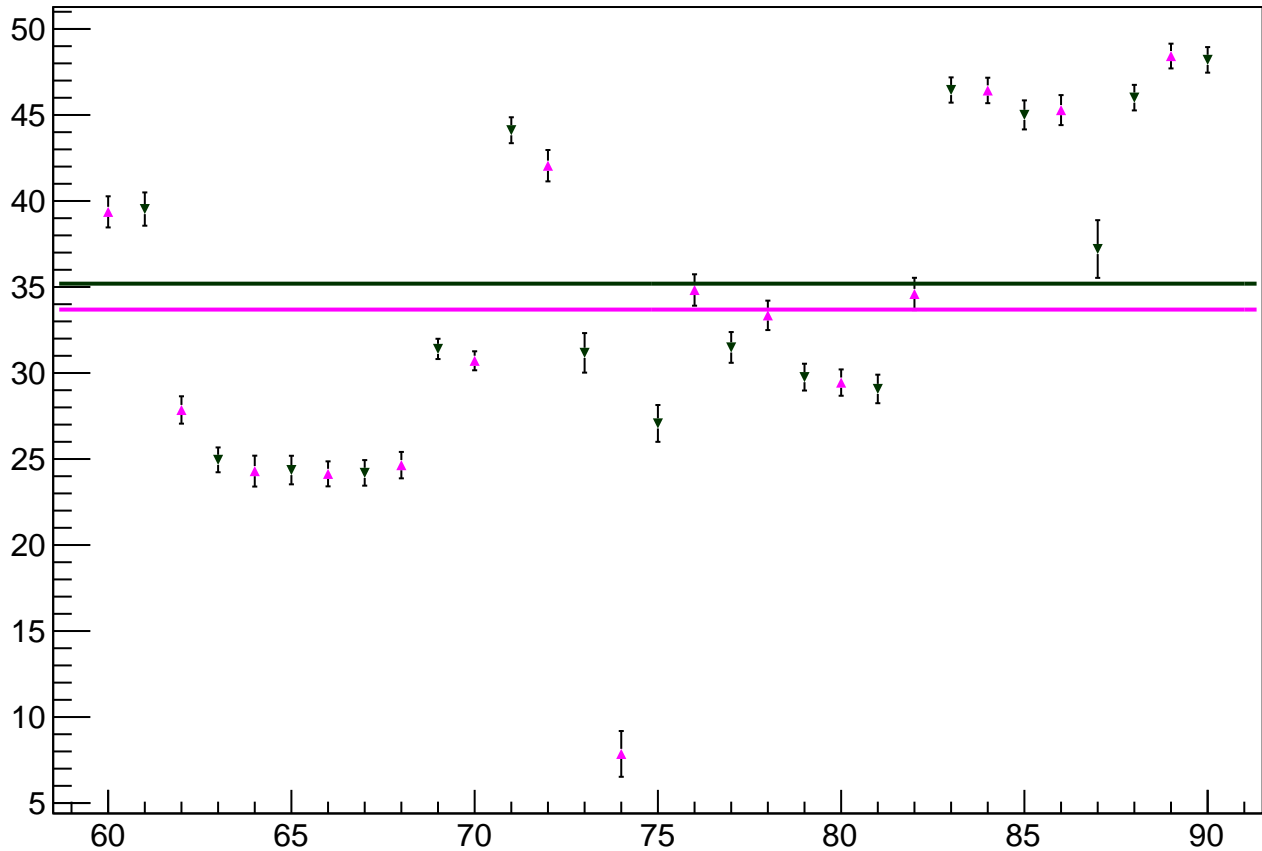
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -40.050+/-0.109  $\chi^2$ /NDF:123390.9/14

-62.748+/-0.113  $\chi^2$ /NDF: 27489.7/15

-40.050+/-0.109  $\chi^2$ /NDF: 123390.9/14

# reg\_asym\_usl\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

35.194+/-0.204  $\chi^2$ /NDF: 1872.2/15

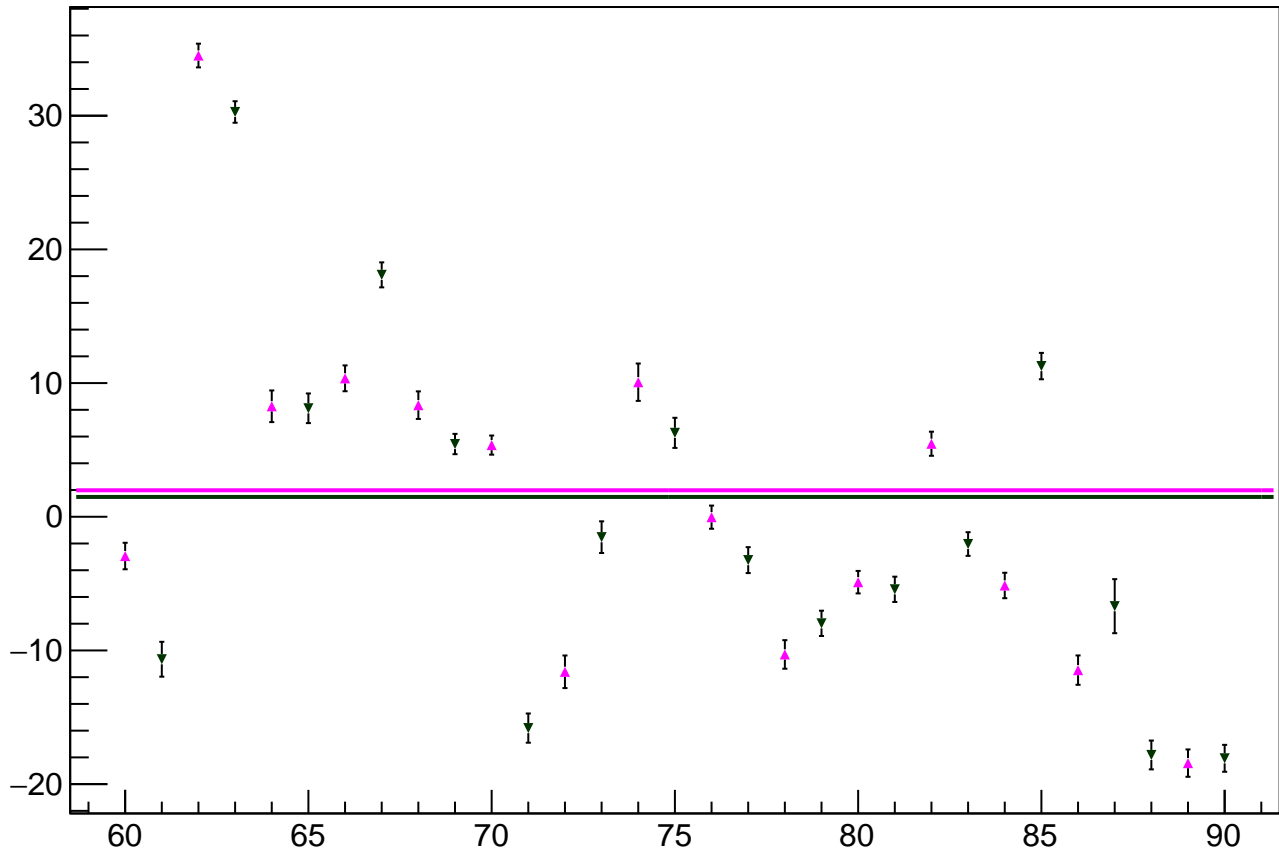
Left Out: 35.194+/-0.204  $\chi^2$ /NDF: 1872.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

33.687+/-0.208  $\chi^2$ /NDF: 1929.1/14

Left In: 33.687+/-0.208  $\chi^2$ /NDF: 1929.1/14

# reg\_asym\_usl\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.483+/-0.251  $\chi^2$ /NDF:3022.7/15

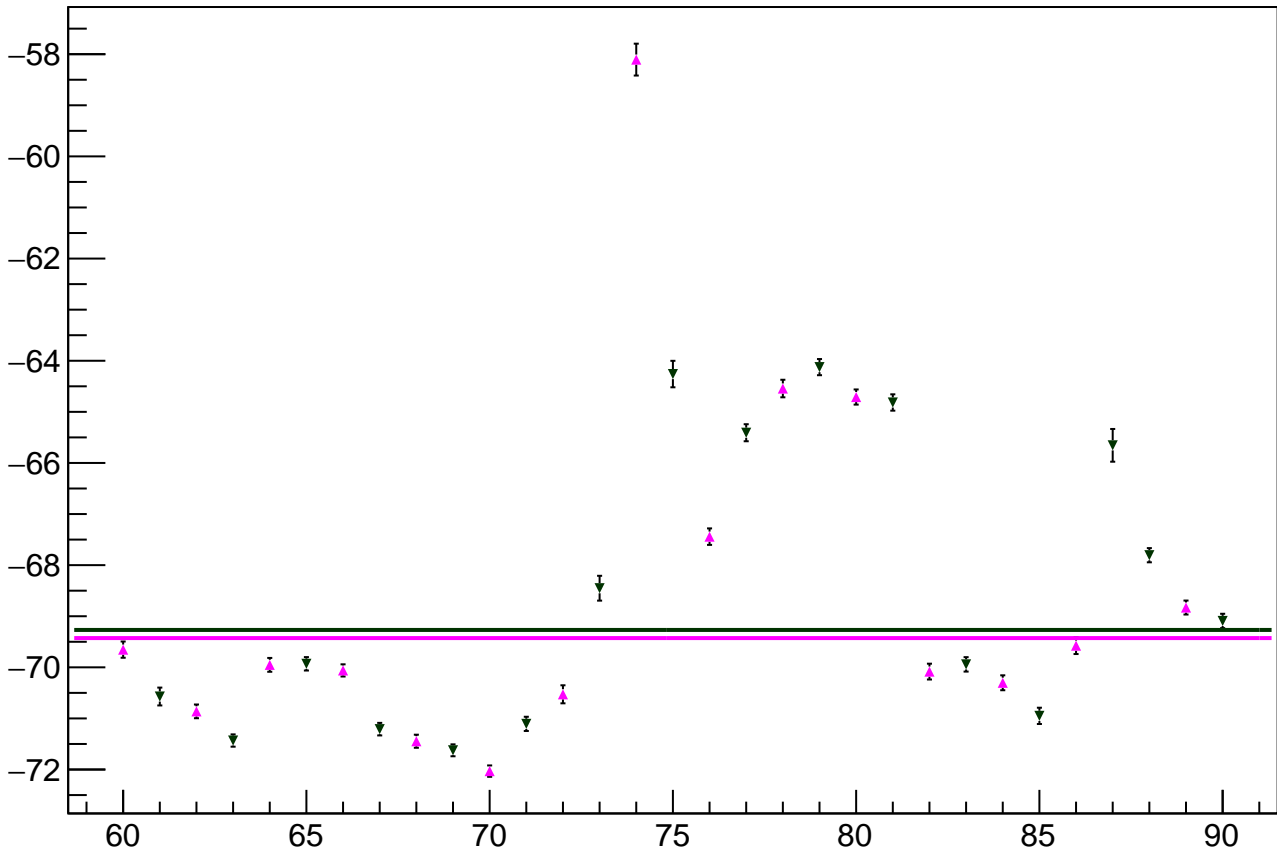
1.483+/-0.251  $\chi^2$ /NDF: 3022.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1.982+/-0.251  $\chi^2$ /NDF: 2512.7/14

Left In: 1.982+/-0.251  $\chi^2$ /NDF:2512.7/14

# reg\_asym\_usl\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -69.268+/-0.038  $\chi^2/\text{NDF}$ : 4360.2/15

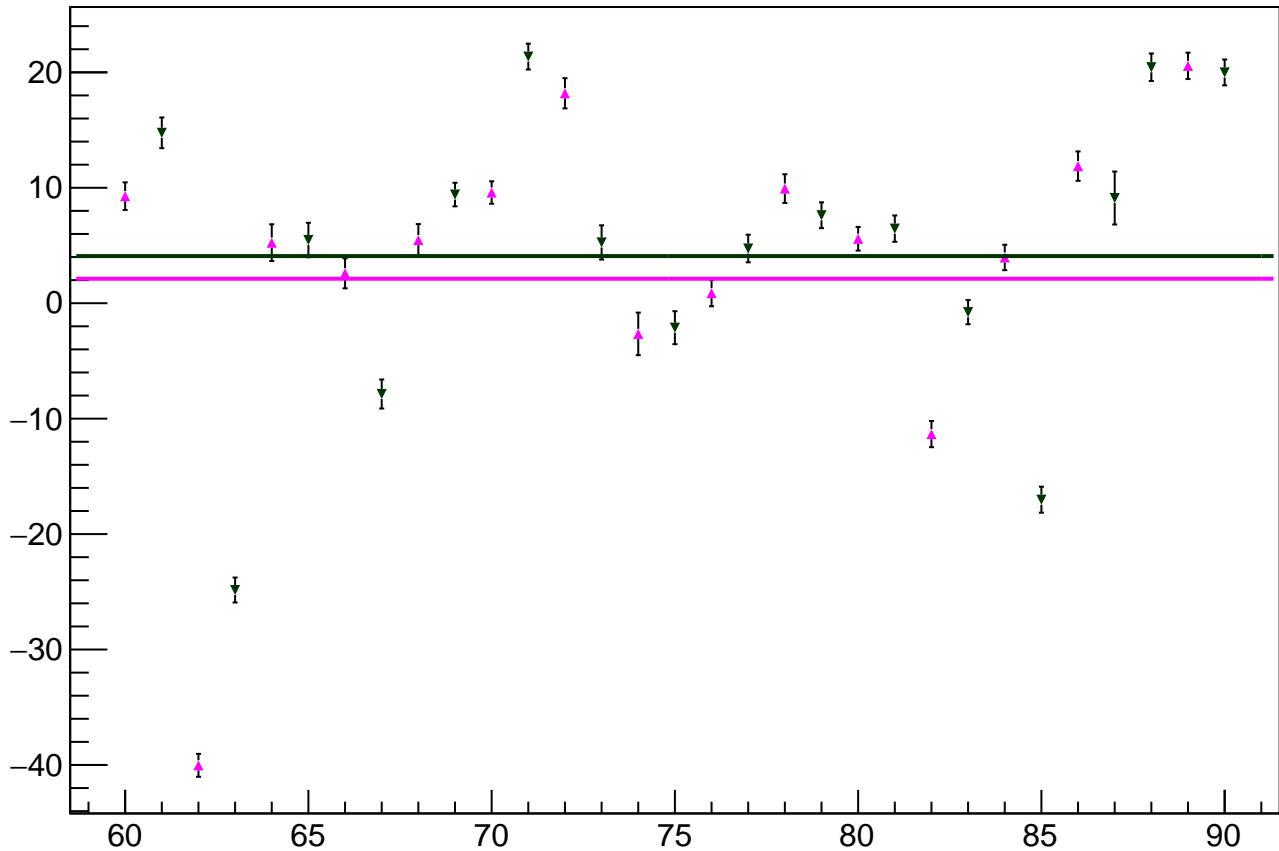
-69.268+/-0.038  $\chi^2/\text{NDF}$ : 4360.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -69.428+/-0.038  $\chi^2/\text{NDF}$ : 4358.0/14

-69.428+/-0.038  $\chi^2/\text{NDF}$ : 4358.0/14

# reg\_asym\_usl\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.084+/-0.303  $\chi^2/\text{NDF}$ :1938.4/15

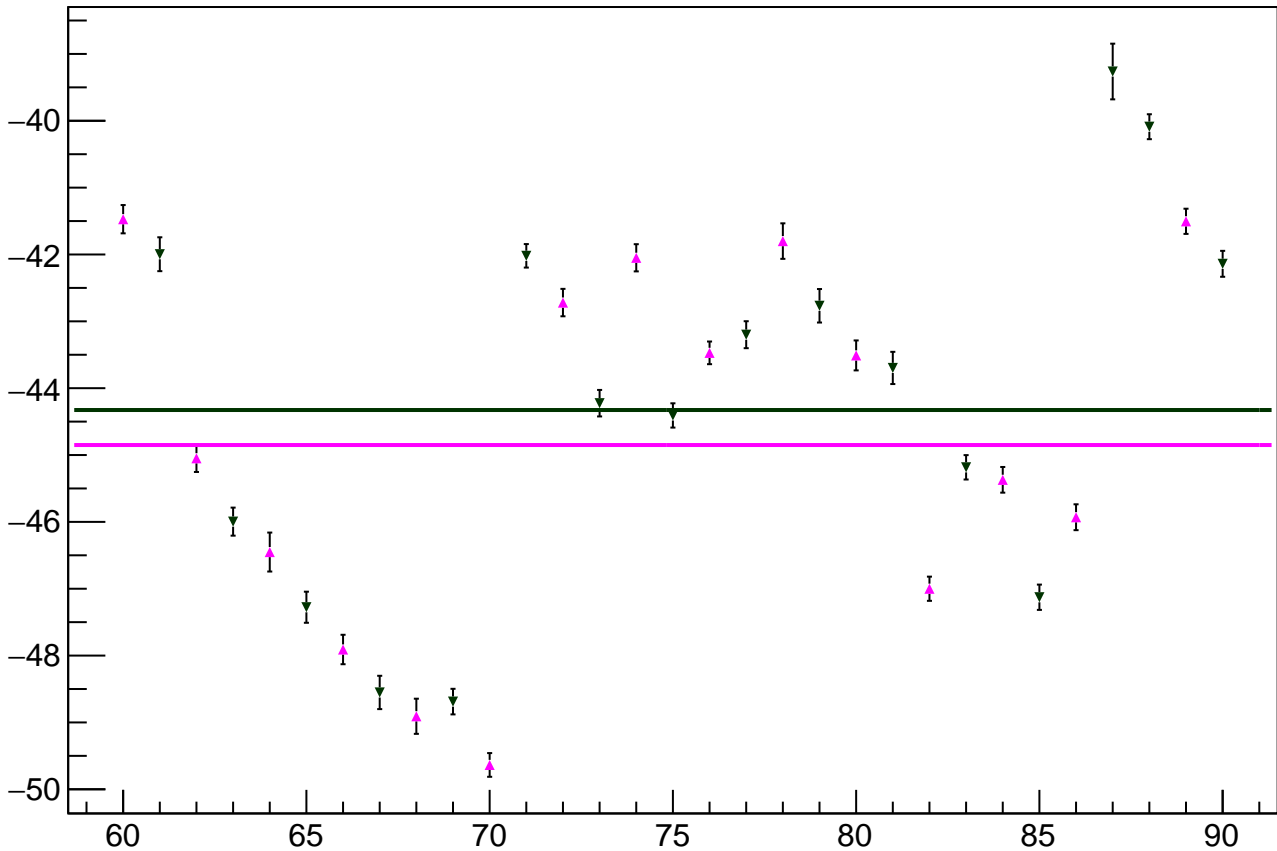
4.084+/-0.303  $\chi^2/\text{NDF}$ : 1938.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.121+/-0.308  $\chi^2/\text{NDF}$ : 2578.8/14

Left In: 2.121+/-0.308  $\chi^2/\text{NDF}$ :2578.8/14

# reg\_asym\_usl\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -44.327+/-0.052  $\chi^2$ /NDF:2397.8/15

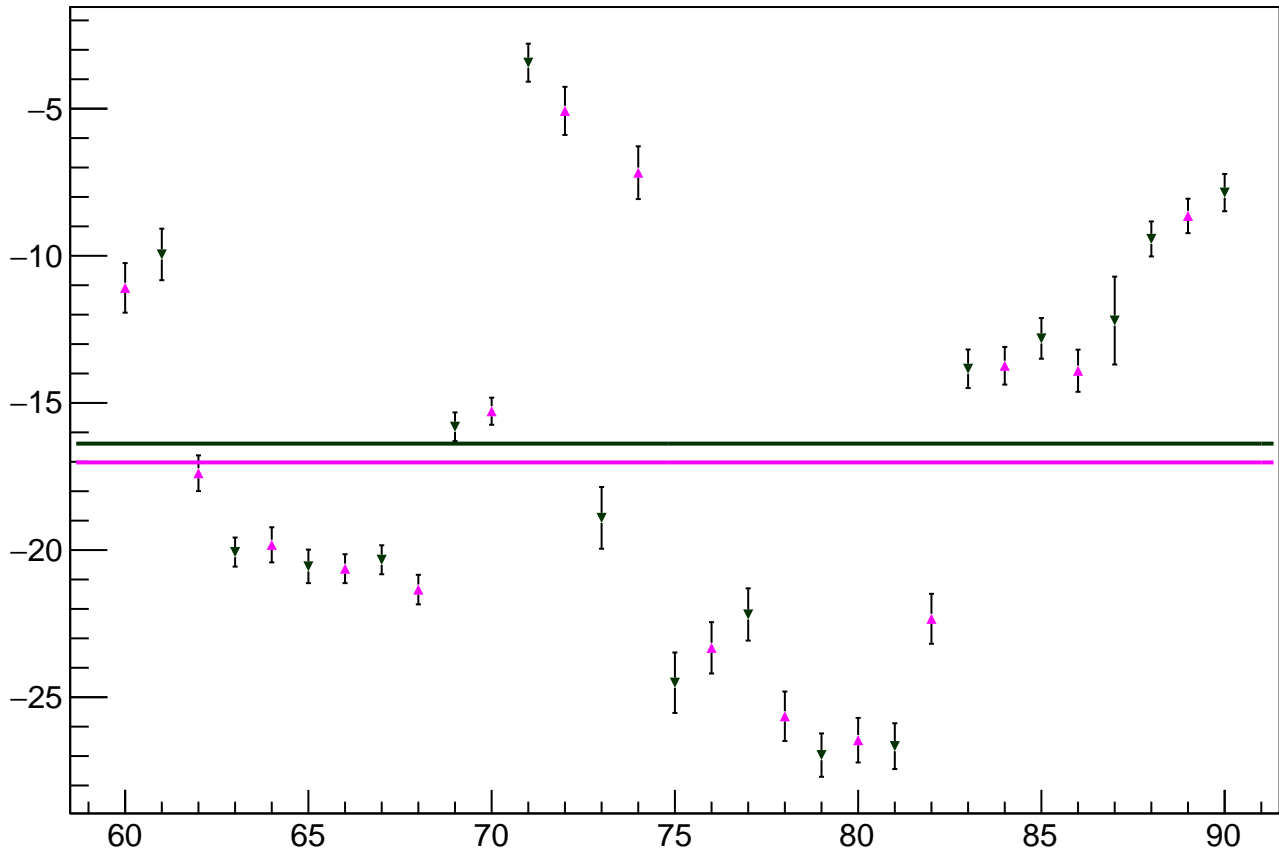
-44.327+/-0.052  $\chi^2$ /NDF: 2397.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -44.850+/-0.053  $\chi^2$ /NDF:2471.2/14

-44.850+/-0.053  $\chi^2$ /NDF: 2471.2/14

# reg\_asym\_usr\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -16.382+/-0.167  $\chi^2/\text{NDF}$ :1490.4/15

-16.382+/-0.167  $\chi^2/\text{NDF}$ : 1490.4/15

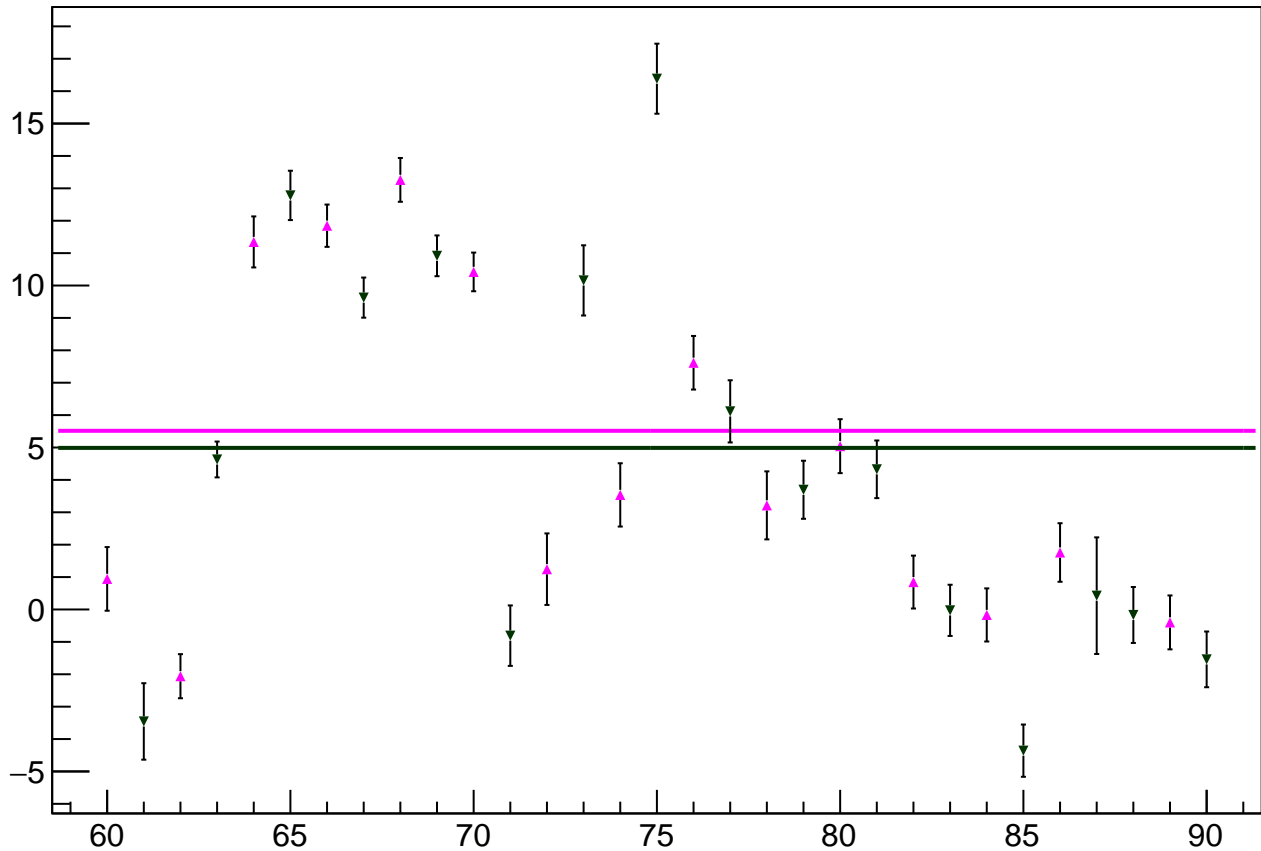
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -17.022+/-0.167  $\chi^2/\text{NDF}$ :1150.9/14

-17.022+/-0.167  $\chi^2/\text{NDF}$ : 1150.9/14



# reg\_asym\_usr\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4.988+/-0.207  $\chi^2$ /NDF:751.9/15

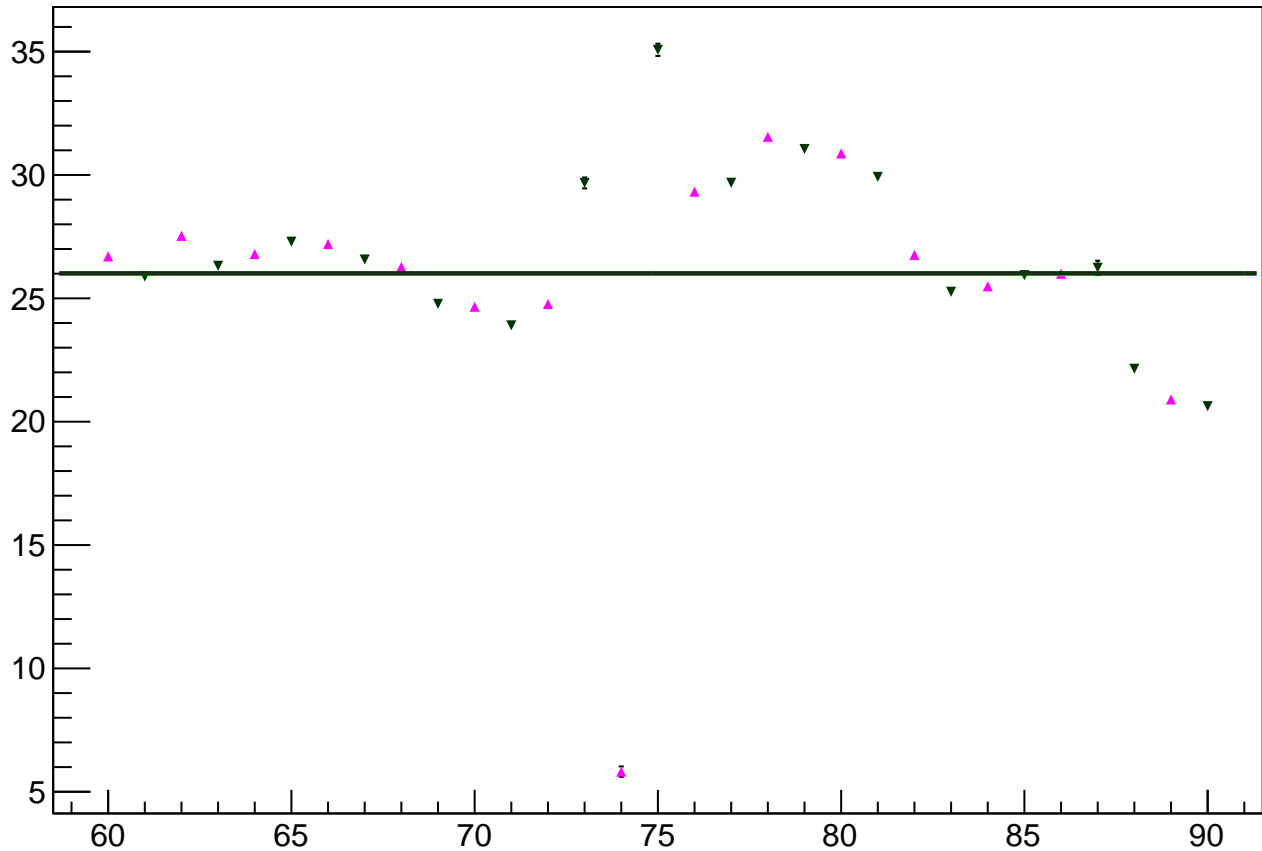
4.988+/-0.207  $\chi^2$ /NDF: 751.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 5.515+/-0.206  $\chi^2$ /NDF:672.3/14

5.515+/-0.206  $\chi^2$ /NDF: 672.3/14

# reg\_asym\_usr\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 26.022+/-0.030  $\chi^2$ /NDF:7951.9/15

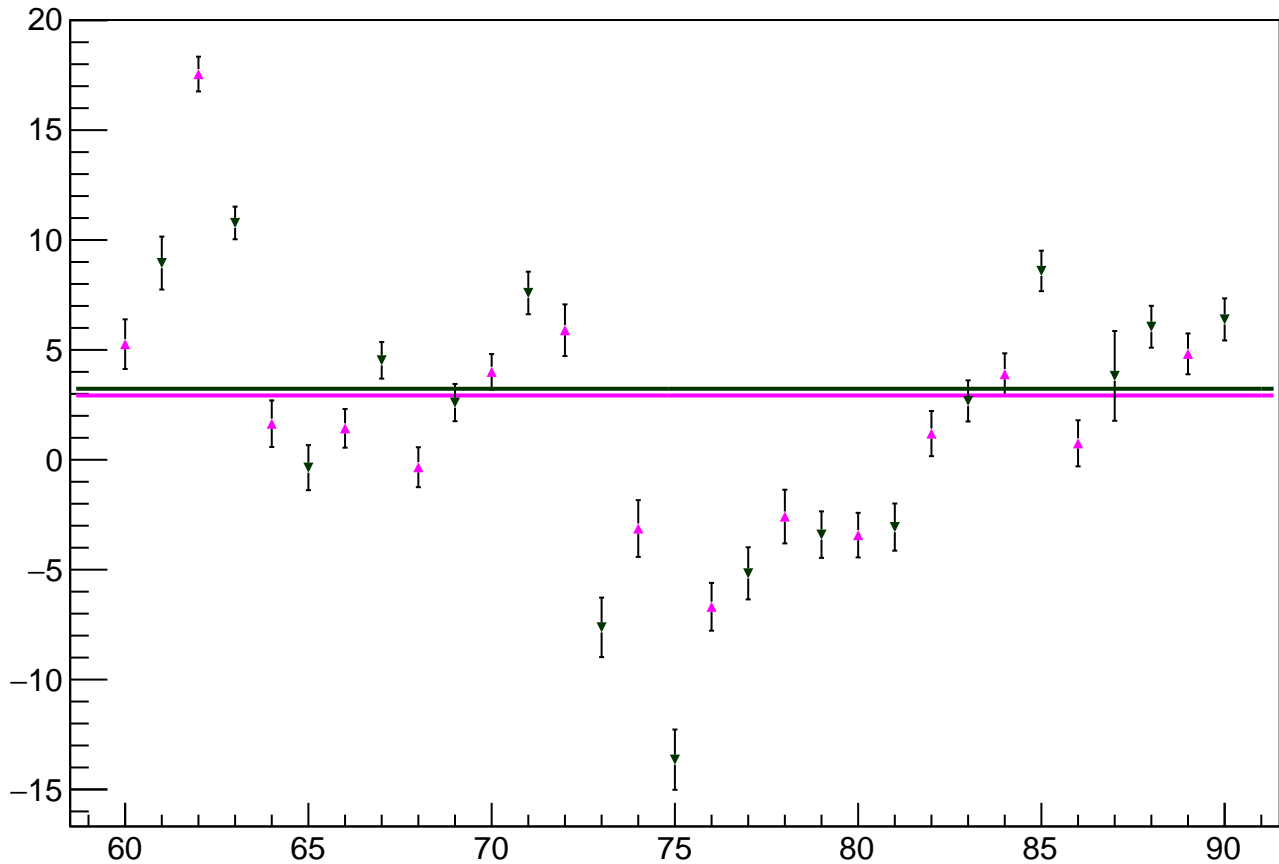
26.022+/-0.030  $\chi^2$ /NDF: 7951.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

25.991+/-0.030  $\chi^2$ /NDF: 14902.9/14

Left In: 25.991+/-0.030  $\chi^2$ /NDF:14902.9/14

# reg\_asym\_usr\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.232+/-0.253  $\chi^2$ /NDF:554.9/15

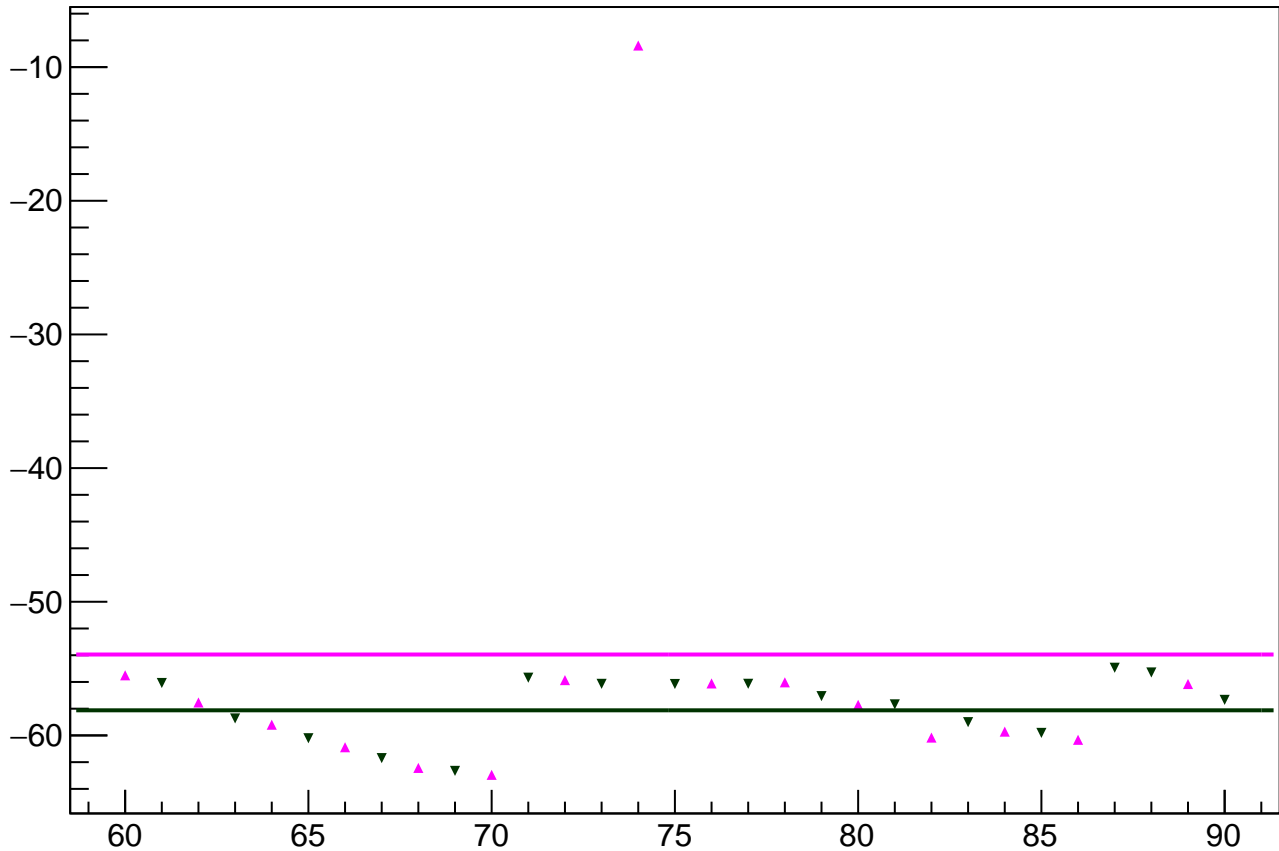
3.232+/-0.253  $\chi^2$ /NDF: 554.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2.926+/-0.256  $\chi^2$ /NDF: 544.1/14

Left In: 2.926+/-0.256  $\chi^2$ /NDF:544.1/14

# reg\_asym\_usr\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -58.121+/-0.044  $\chi^2$ /NDF:2788.2/15

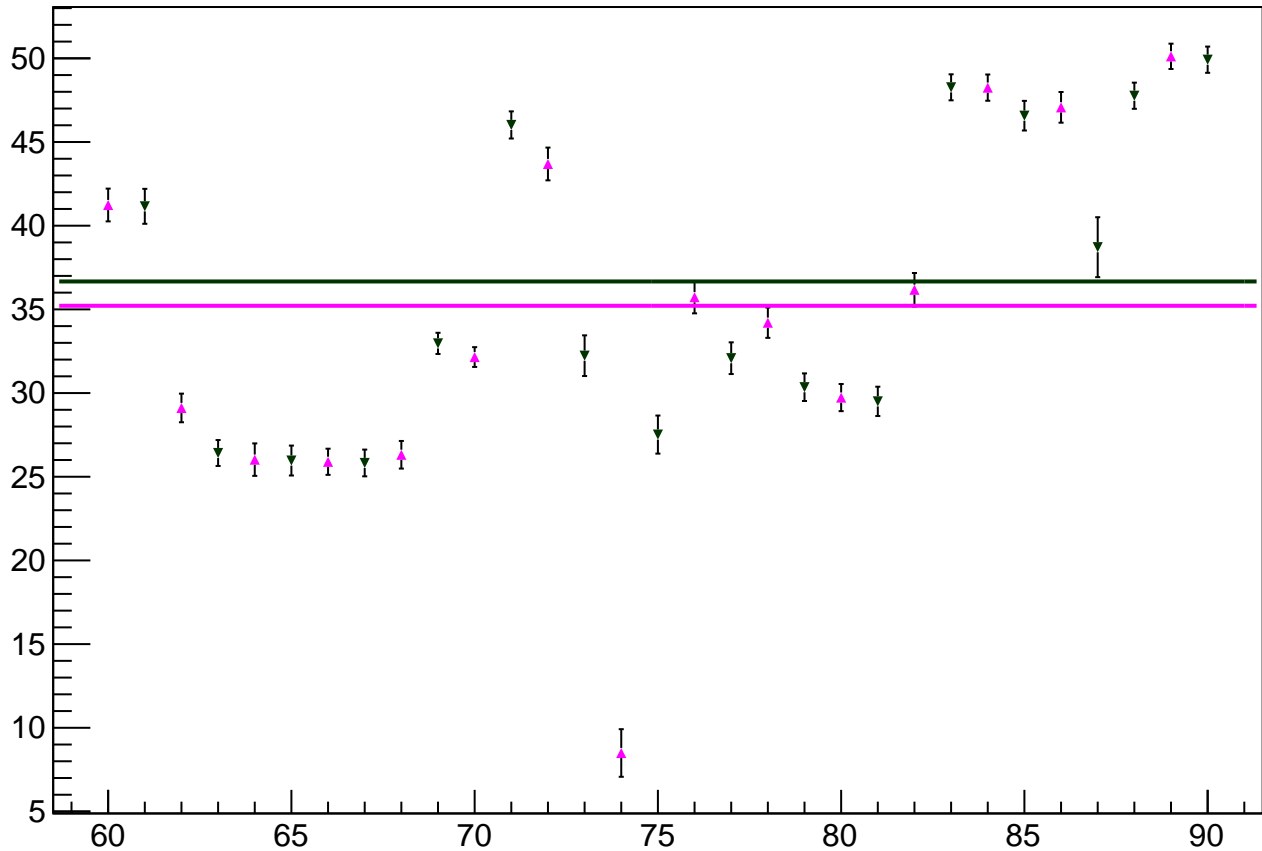
-58.121+/-0.044  $\chi^2$ /NDF: 2788.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -53.946+/-0.043  $\chi^2$ /NDF:123454.4/14

-53.946+/-0.043  $\chi^2$ /NDF: 123454.4/14

# reg\_asym\_dsl\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

36.668+/-0.217  $\chi^2$ /NDF: 1752.0/15

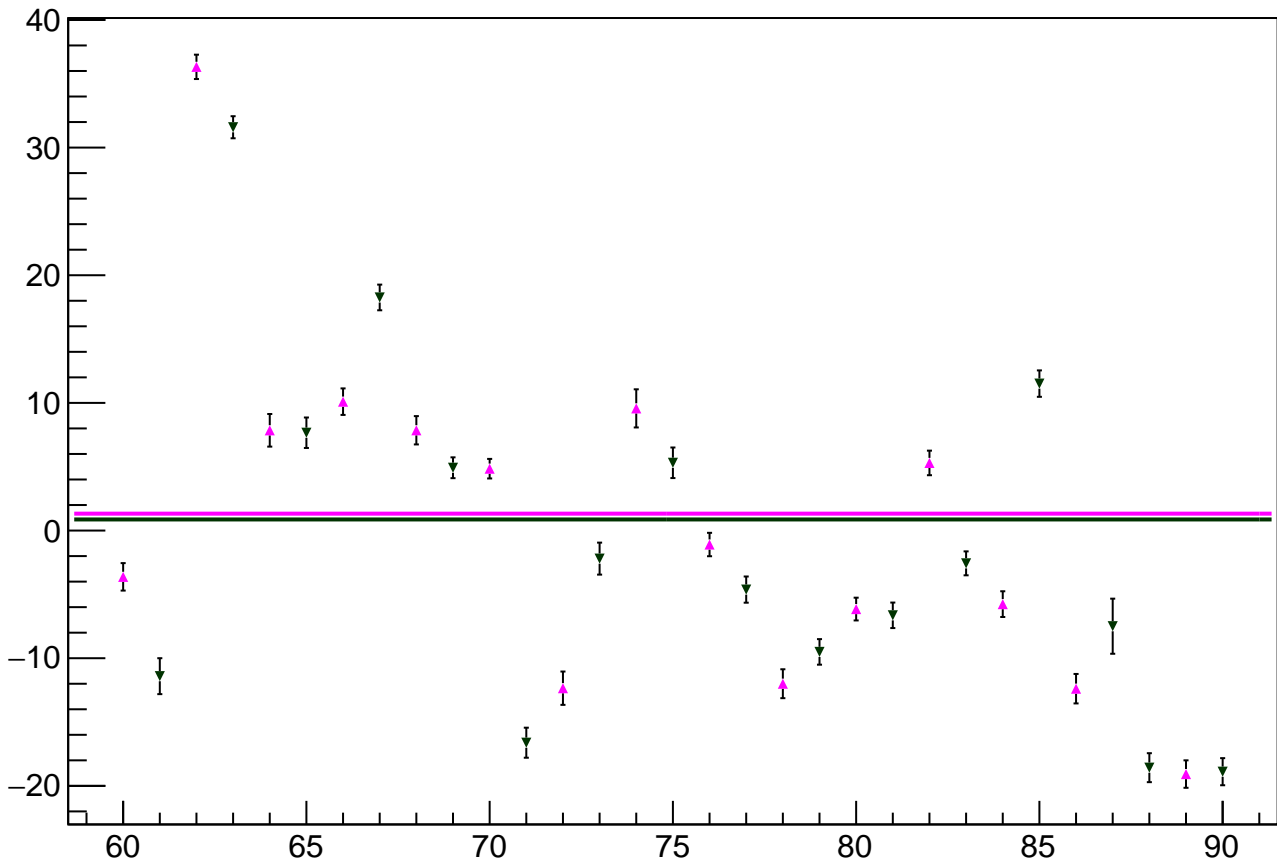
Left Out: 36.668+/-0.217  $\chi^2$ /NDF: 1752.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

35.215+/-0.222  $\chi^2$ /NDF: 1772.0/14

Left In: 35.215+/-0.222  $\chi^2$ /NDF: 1772.0/14

# reg\_asym\_dsl\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.870+/-0.267  $\chi^2/\text{NDF}$ :2903.3/15

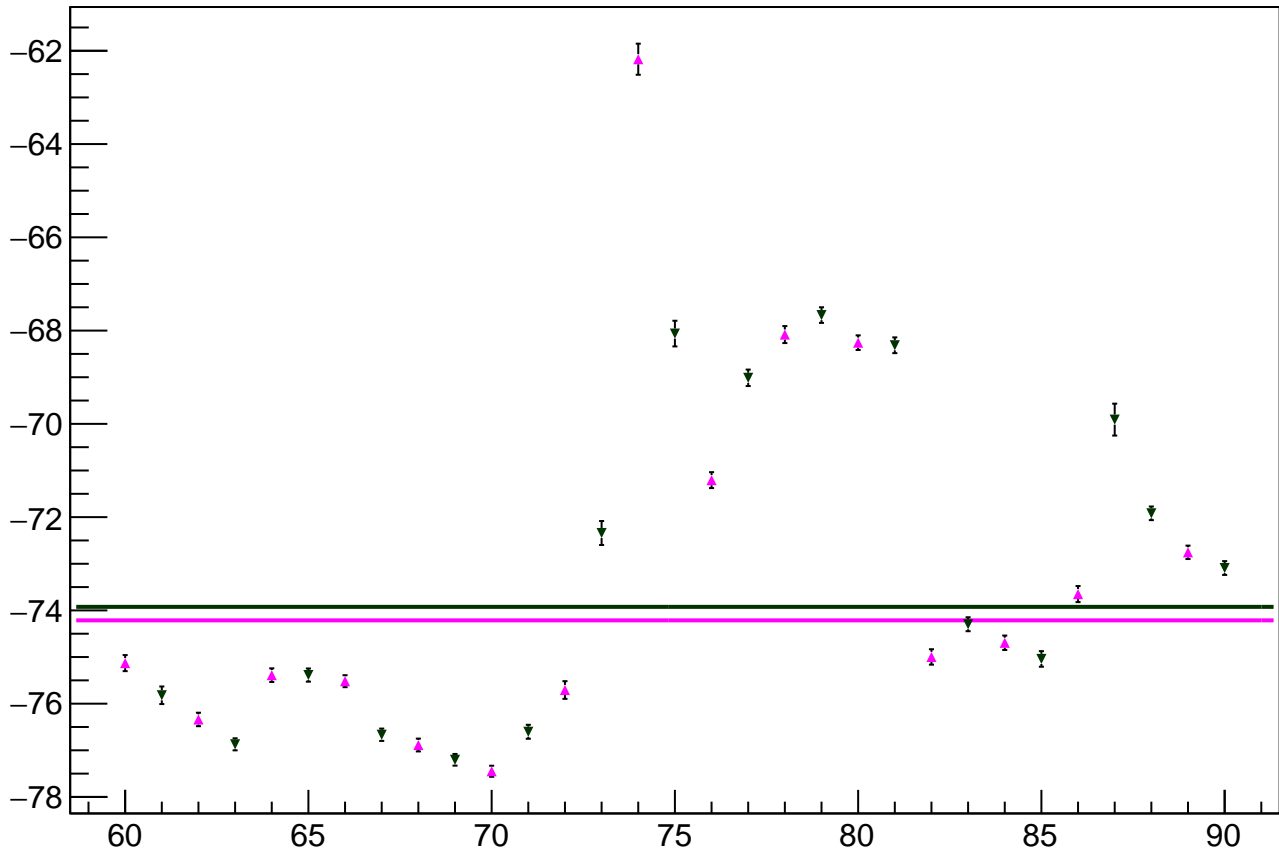
0.870+/-0.267  $\chi^2/\text{NDF}$ : 2903.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.324+/-0.268  $\chi^2/\text{NDF}$ : 2443.7/14

Left In: 1.324+/-0.268  $\chi^2/\text{NDF}$ :2443.7/14

# reg\_asym\_dsl\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -73.924+/-0.040  $\chi^2$ /NDF:6336.5/15

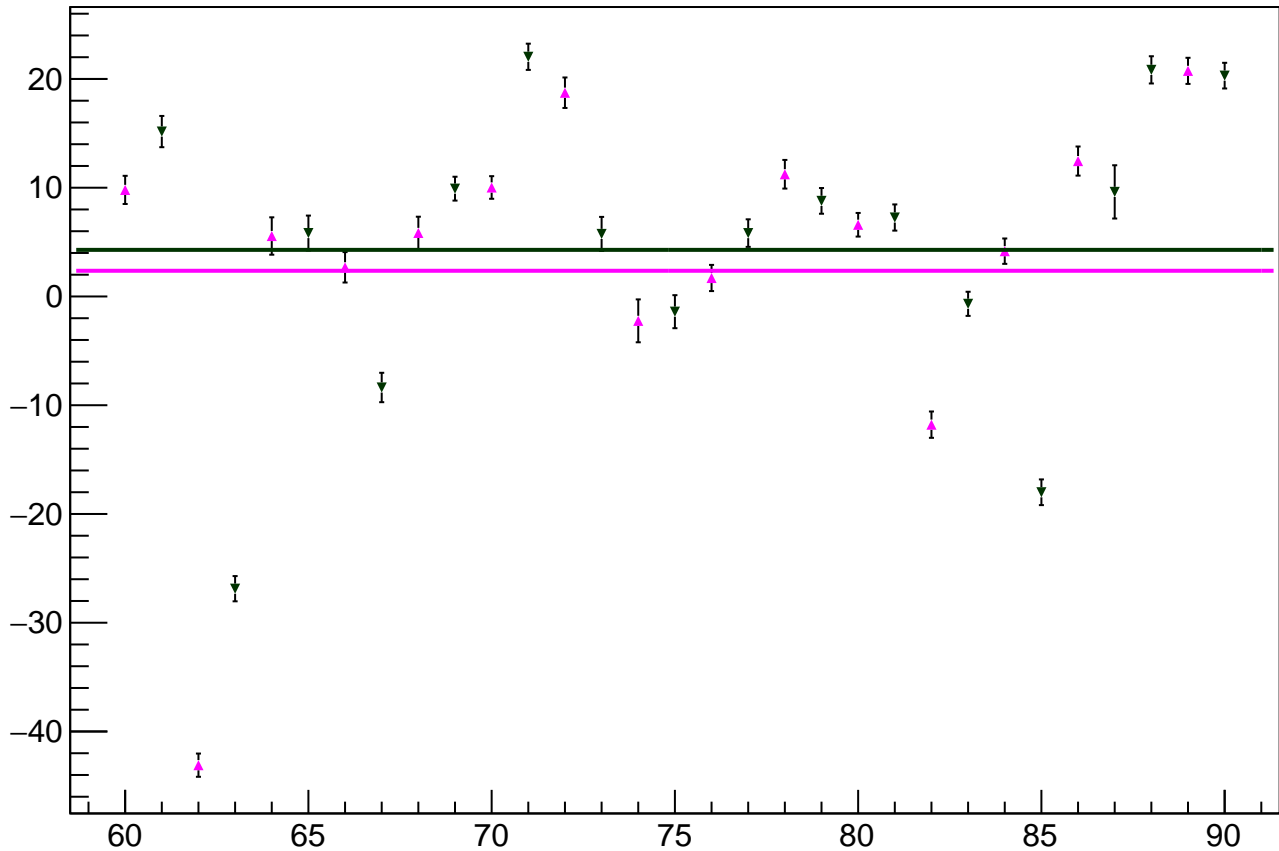
-73.924+/-0.040  $\chi^2$ /NDF: 6336.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -74.213+/-0.040  $\chi^2$ /NDF:5921.4/14

-74.213+/-0.040  $\chi^2$ /NDF: 5921.4/14

# reg\_asym\_dsl\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4.285+/-0.323  $\chi^2$ /NDF: 1886.4/15

Left Out: 4.285+/-0.323  $\chi^2$ /NDF:1886.4/15

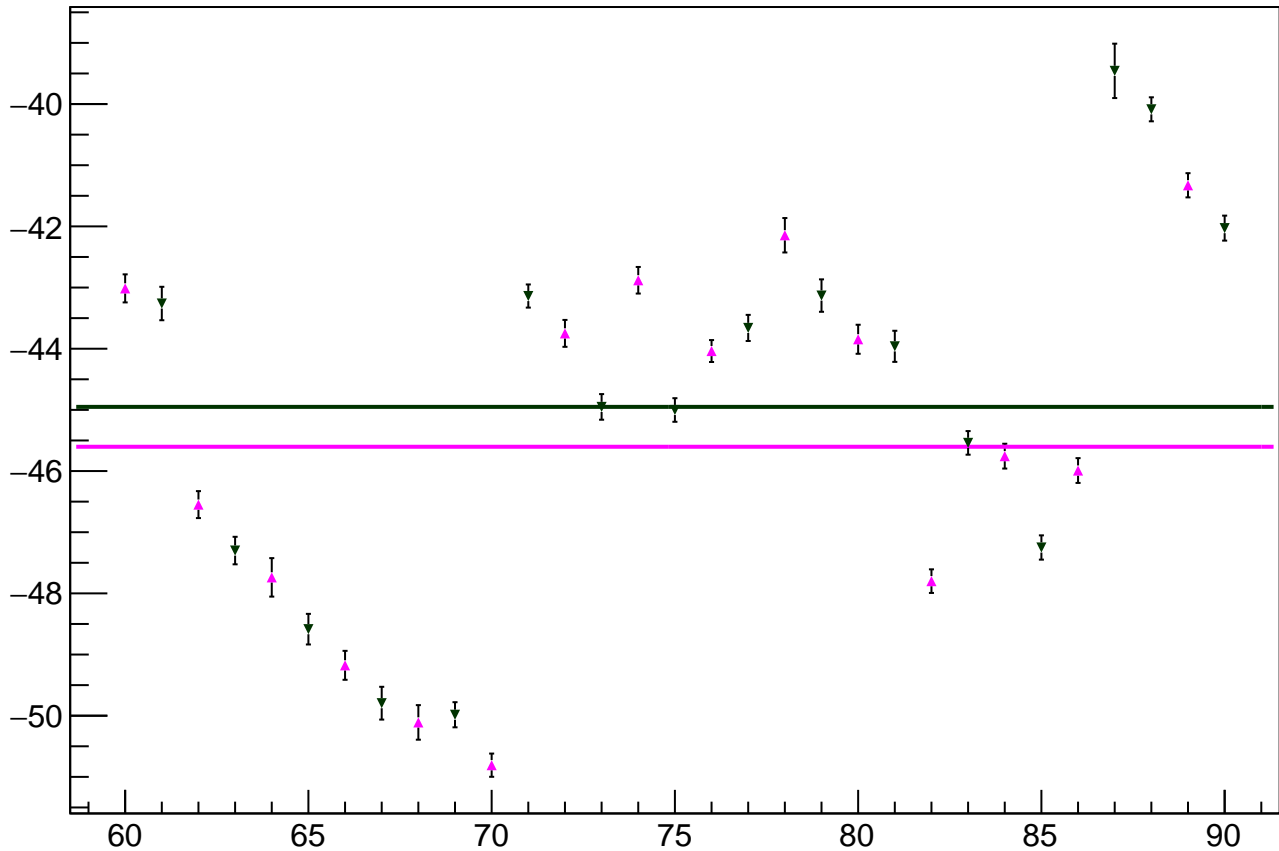
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2.363+/-0.329  $\chi^2$ /NDF: 2537.9/14

Left In: 2.363+/-0.329  $\chi^2$ /NDF:2537.9/14



# reg\_asym\_dsl\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -44.951+/-0.056  $\chi^2$ /NDF:2590.9/15

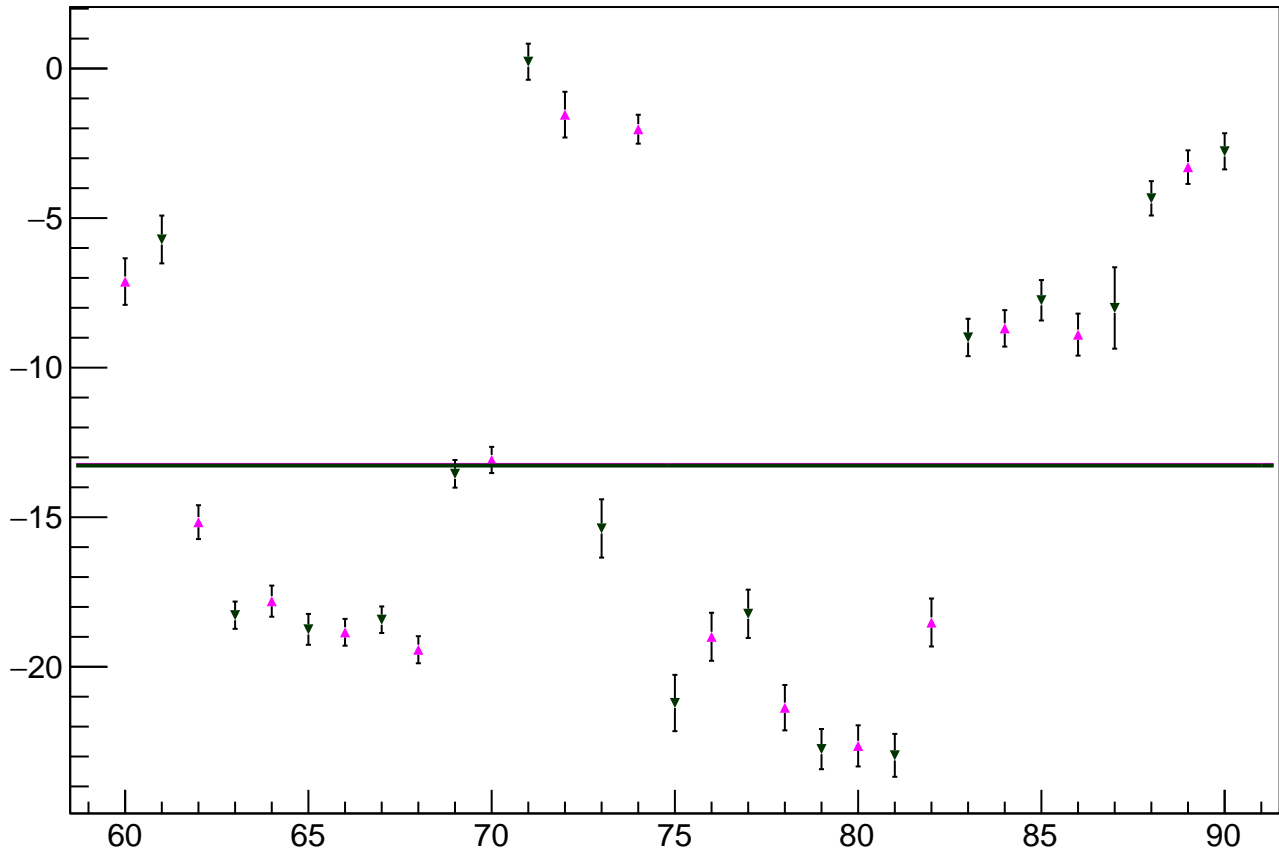
-44.951+/-0.056  $\chi^2$ /NDF: 2590.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -45.603+/-0.057  $\chi^2$ /NDF:2536.1/14

-45.603+/-0.057  $\chi^2$ /NDF: 2536.1/14

# reg\_asym\_dsr\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.273+/-0.155  $\chi^2$ /NDF:2125.8/15

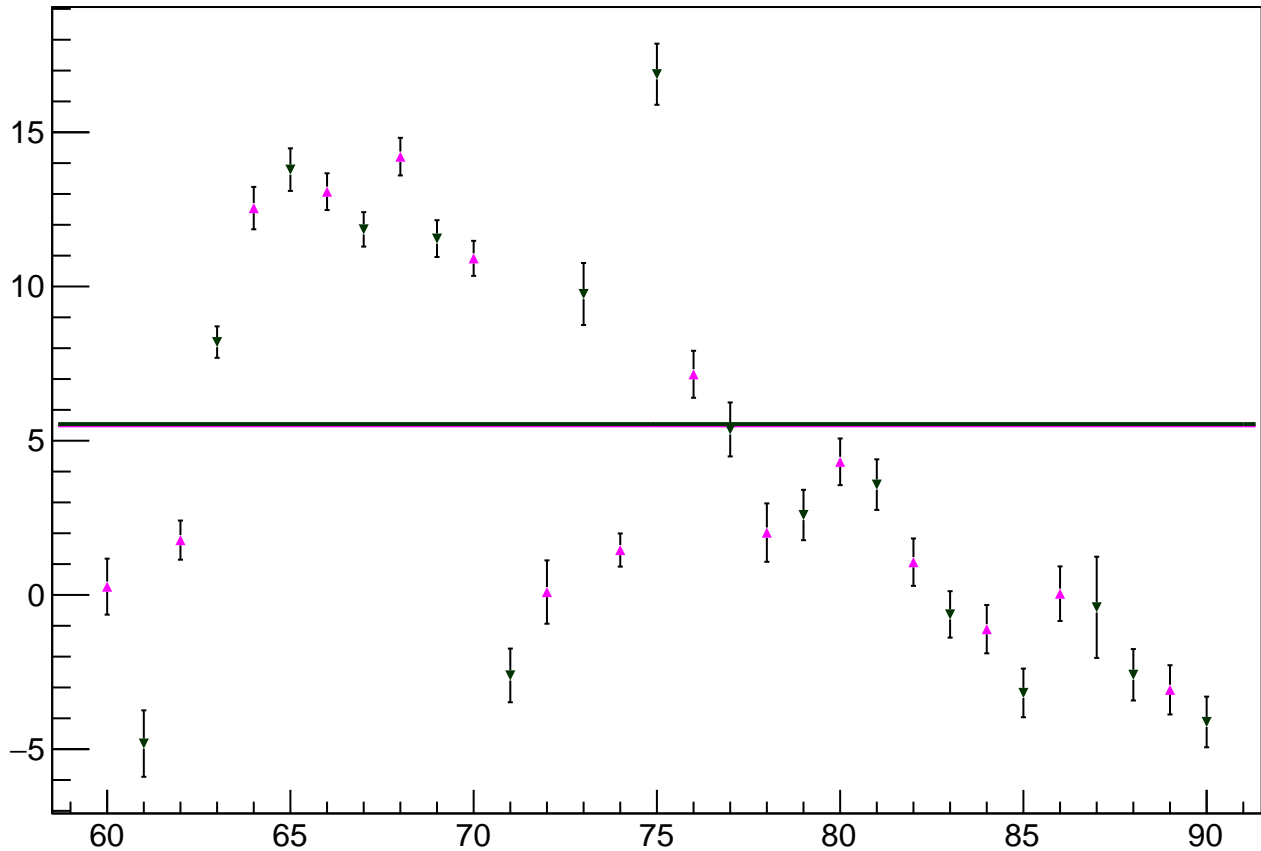
-13.273+/-0.155  $\chi^2$ /NDF: 2125.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -13.253+/-0.150  $\chi^2$ /NDF:2071.2/14

-13.253+/-0.150  $\chi^2$ /NDF: 2071.2/14

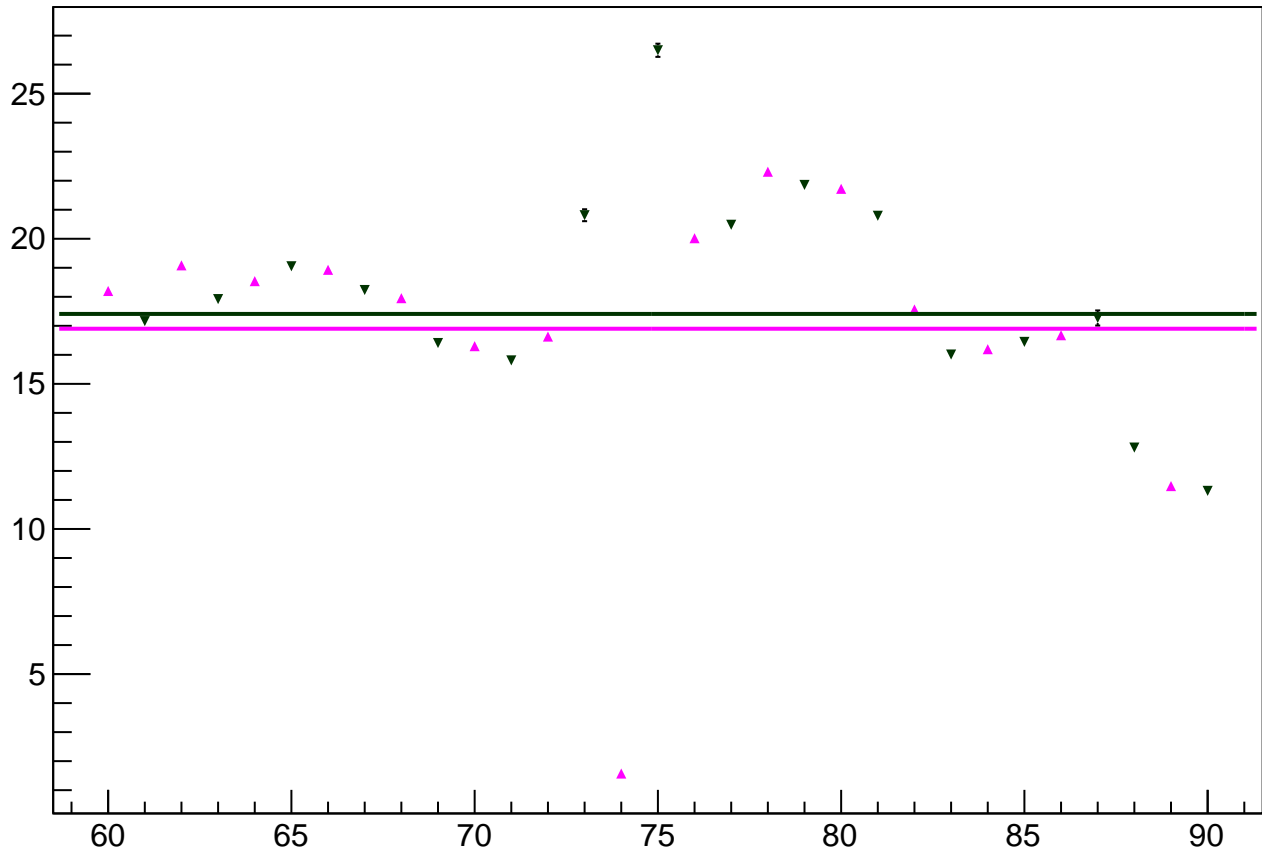
# reg\_asym\_dsr\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 5.539+/-0.192  $\chi^2$ /NDF:1182.5/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 5.497+/-0.184  $\chi^2$ /NDF:991.8/14

5.539+/-0.192  $\chi^2$ /NDF: 1182.5/15  
5.497+/-0.184  $\chi^2$ /NDF: 991.8/14

# reg\_asym\_dsr\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 17.410+/-0.028  $\chi^2$ /NDF:9758.5/15

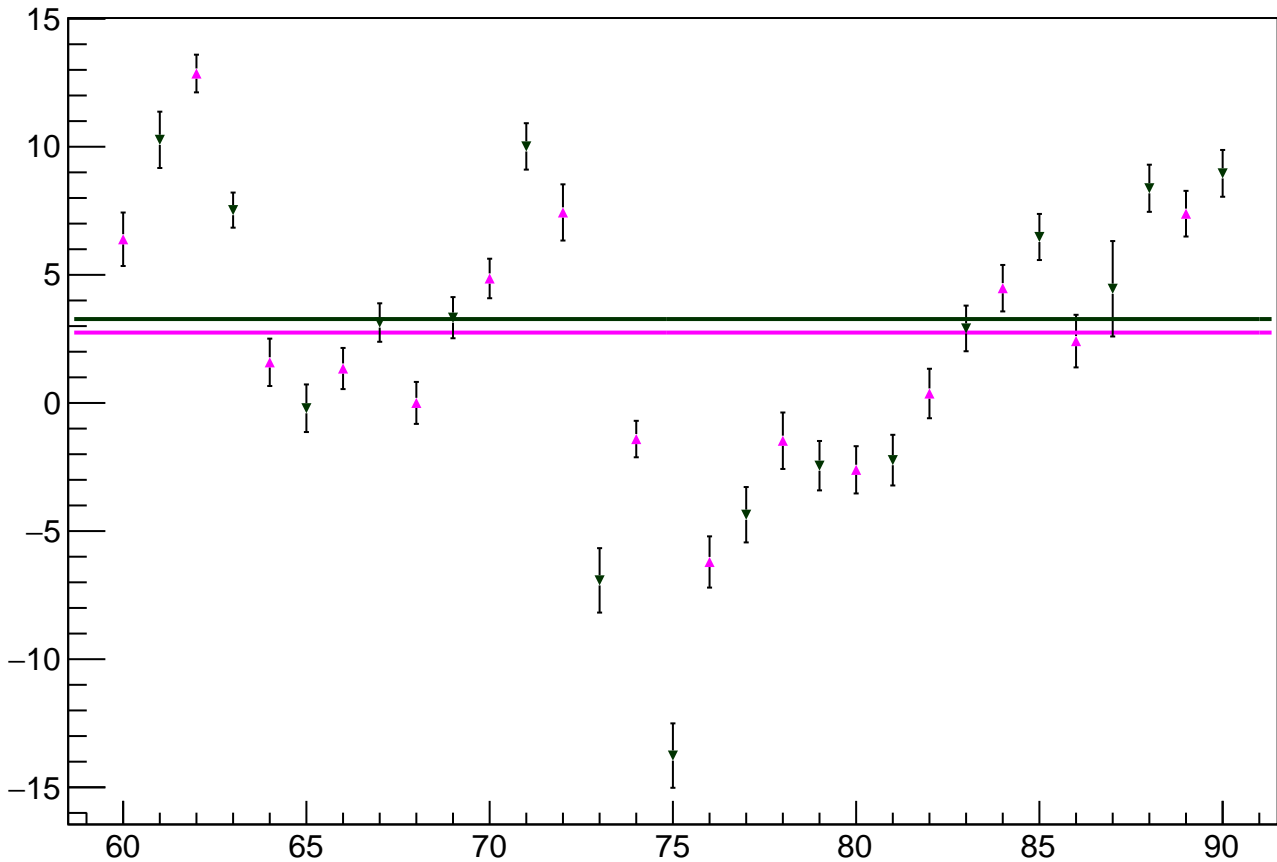
17.410+/-0.028  $\chi^2$ /NDF: 9758.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 16.900+/-0.027  $\chi^2$ /NDF:26231.3/14

16.900+/-0.027  $\chi^2$ /NDF: 26231.3/14

# reg\_asym\_dsr\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.275+/-0.235  $\chi^2/\text{NDF}$ :596.8/15

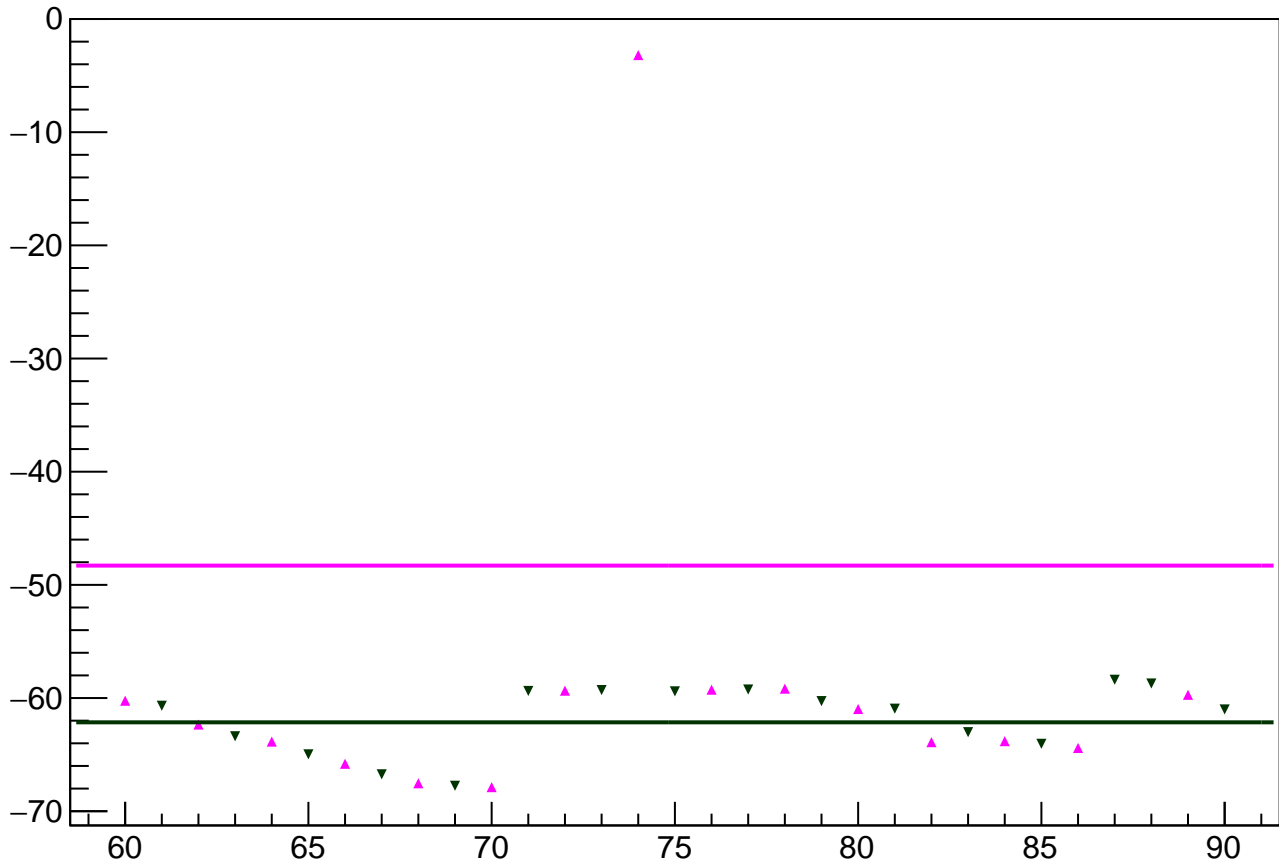
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.747+/-0.230  $\chi^2/\text{NDF}$ :442.3/14

3.275+/-0.235  $\chi^2/\text{NDF}$ : 596.8/15

2.747+/-0.230  $\chi^2/\text{NDF}$ : 442.3/14

# reg\_asym\_dsr\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -62.145+/-0.041  $\chi^2/\text{NDF}$ : 5106.0/15

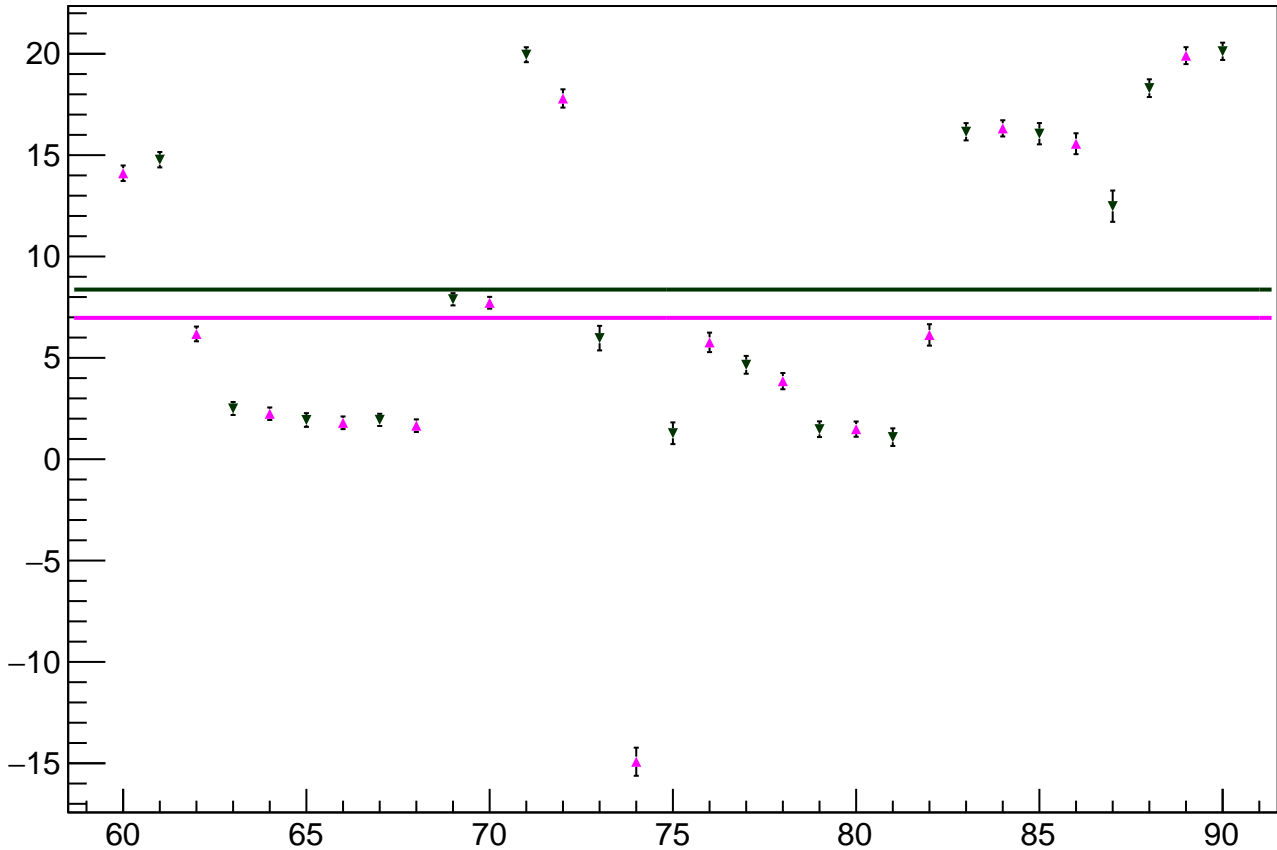
-62.145+/-0.041  $\chi^2/\text{NDF}$ : 5106.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -48.297+/-0.037  $\chi^2/\text{NDF}$ : 491717.7/14

-48.297+/-0.037  $\chi^2/\text{NDF}$ : 491717.7/14

# reg\_asym\_us\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

8.369+/-0.100  $\chi^2$ /NDF: 5131.7/15

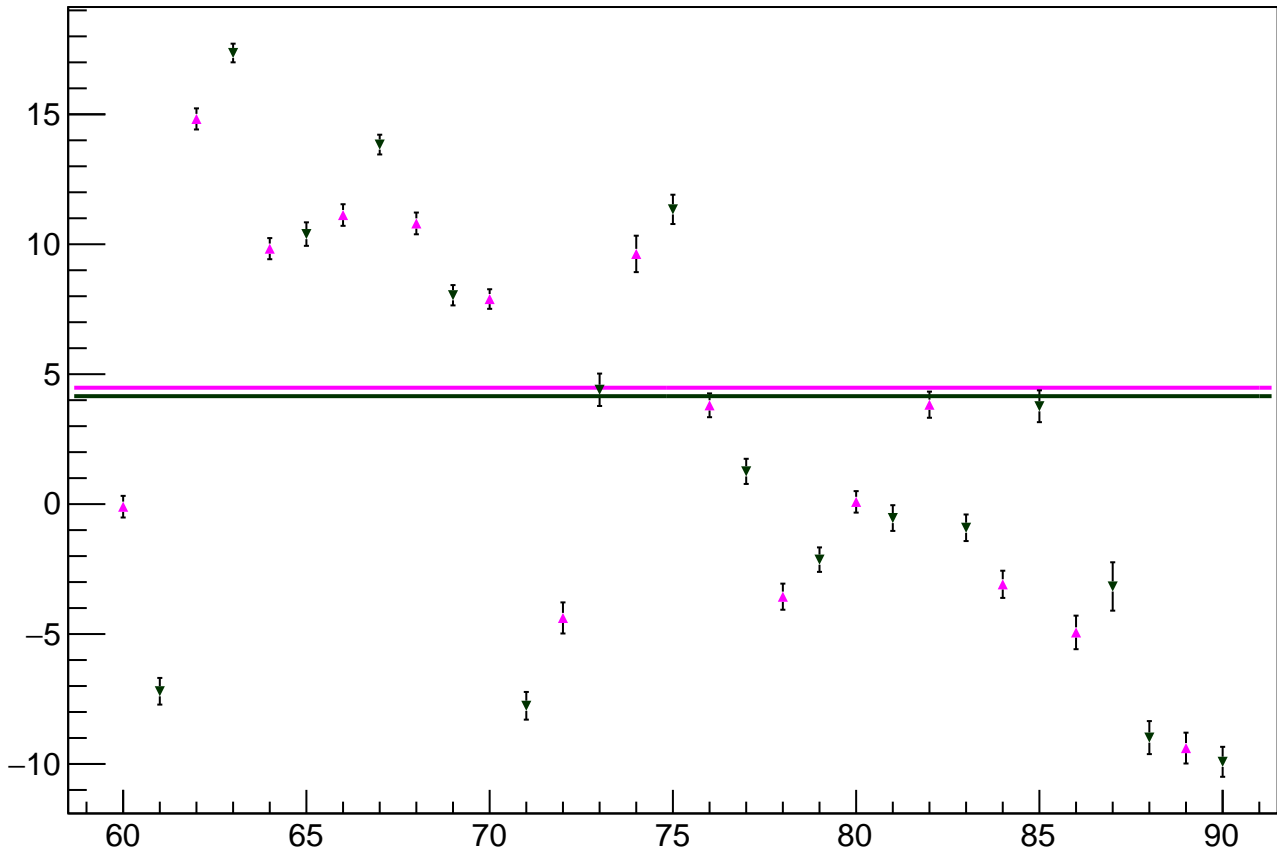
Left Out: 8.369+/-0.100  $\chi^2$ /NDF:5131.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

6.973+/-0.099  $\chi^2$ /NDF: 4795.9/14

Left In: 6.973+/-0.099  $\chi^2$ /NDF:4795.9/14

# reg\_asym\_us\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.154+/-0.124  $\chi^2/\text{NDF}$ : 4930.3/15

4.154+/-0.124  $\chi^2/\text{NDF}$ : 4930.3/15

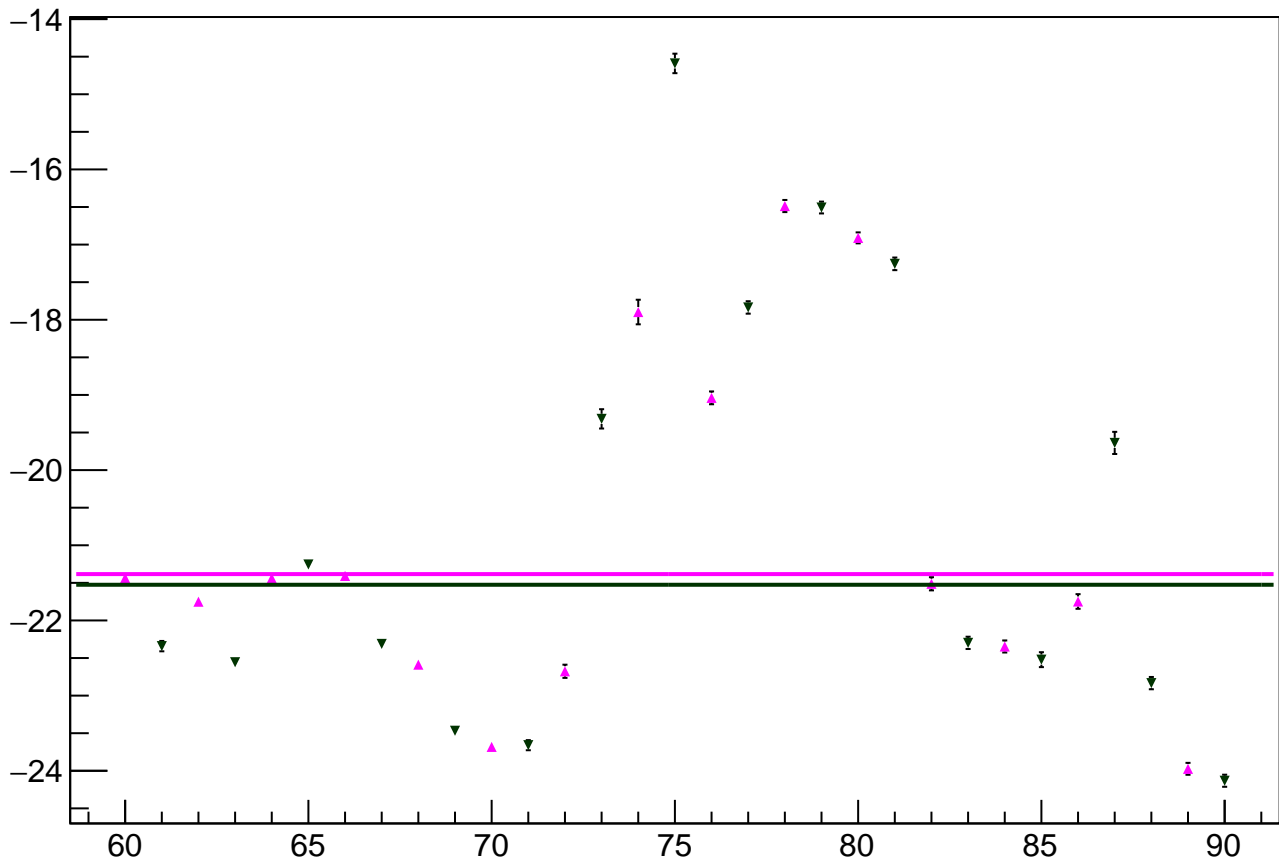
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.479+/-0.121  $\chi^2/\text{NDF}$ : 3123.2/14

Left In: 4.479+/-0.121  $\chi^2/\text{NDF}$ : 3123.2/14



# reg\_asym\_us\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -21.525+/-0.018  $\chi^2$ /NDF:16295.8/15

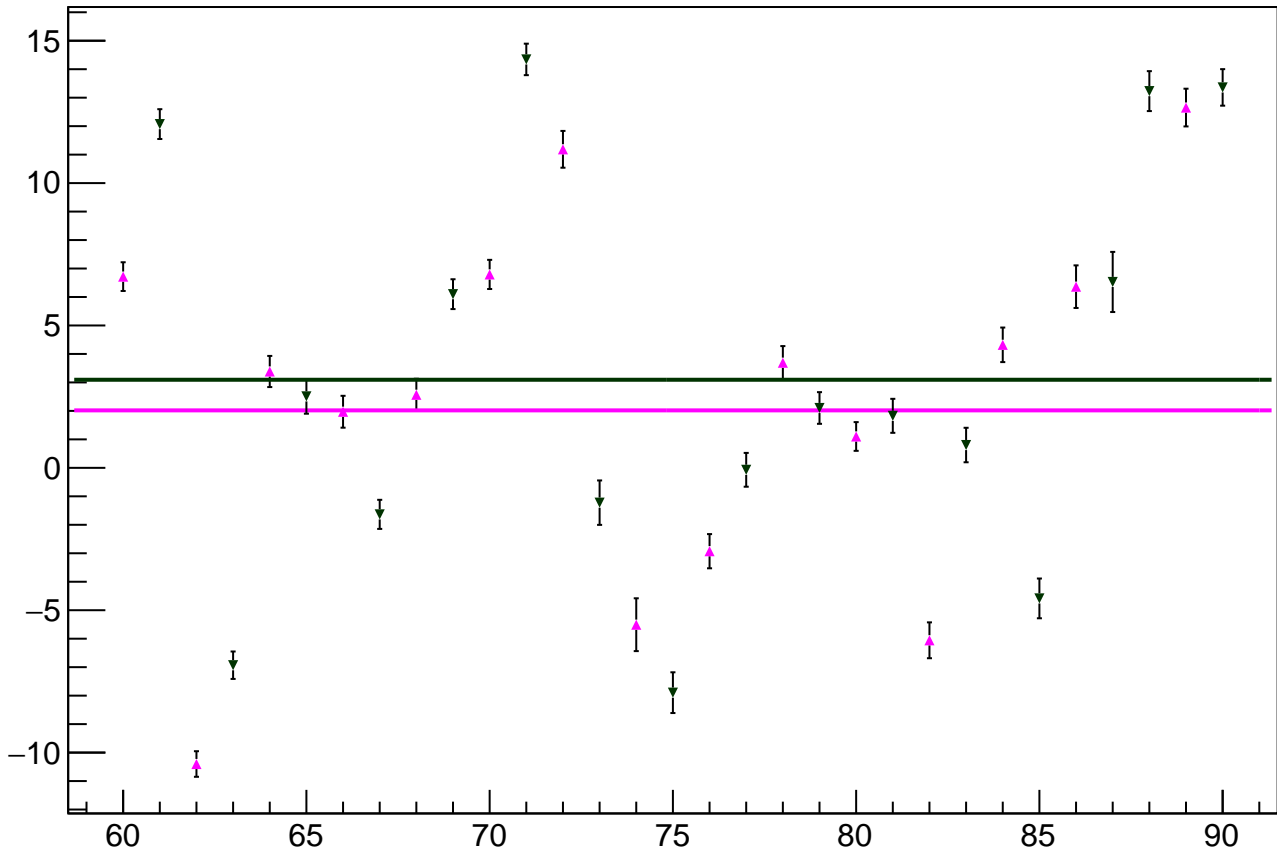
-21.525+/-0.018  $\chi^2$ /NDF: 16295.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -21.383+/-0.018  $\chi^2$ /NDF:12205.0/14

-21.383+/-0.018  $\chi^2$ /NDF: 12205.0/14

# reg\_asym\_us\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.094+/-0.151  $\chi^2$ /NDF:2174.4/15

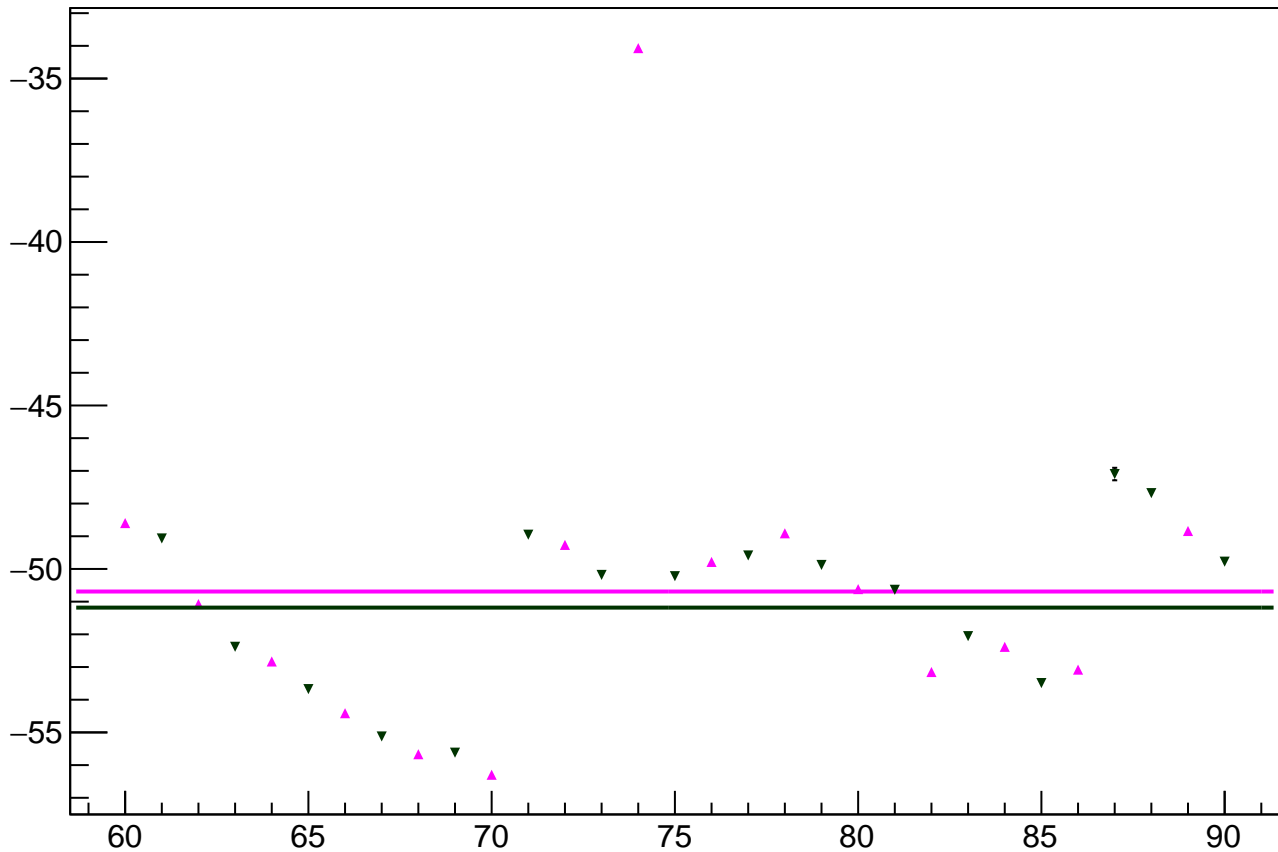
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.018+/-0.149  $\chi^2$ /NDF:1762.0/14

3.094+/-0.151  $\chi^2$ /NDF: 2174.4/15

2.018+/-0.149  $\chi^2$ /NDF: 1762.0/14

# reg\_asym\_us\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -51.183+/-0.026  $\chi^2/\text{NDF}$ : 8114.7/15

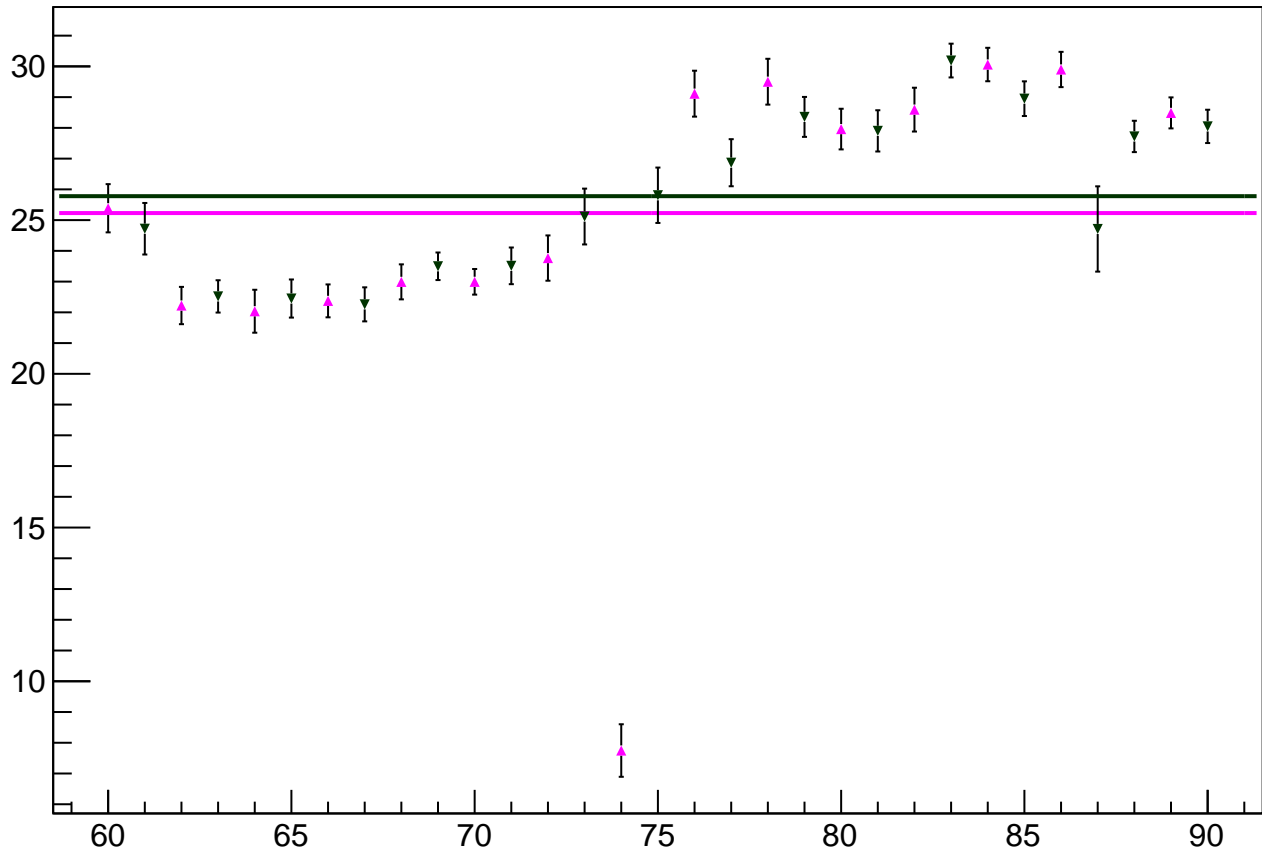
-51.183+/-0.026  $\chi^2/\text{NDF}$ : 8114.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -50.691+/-0.026  $\chi^2/\text{NDF}$ : 35252.1/14

-50.691+/-0.026  $\chi^2/\text{NDF}$ : 35252.1/14

# reg\_asym\_us\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 25.779+/-0.155  $\chi^2$ /NDF:306.7/15

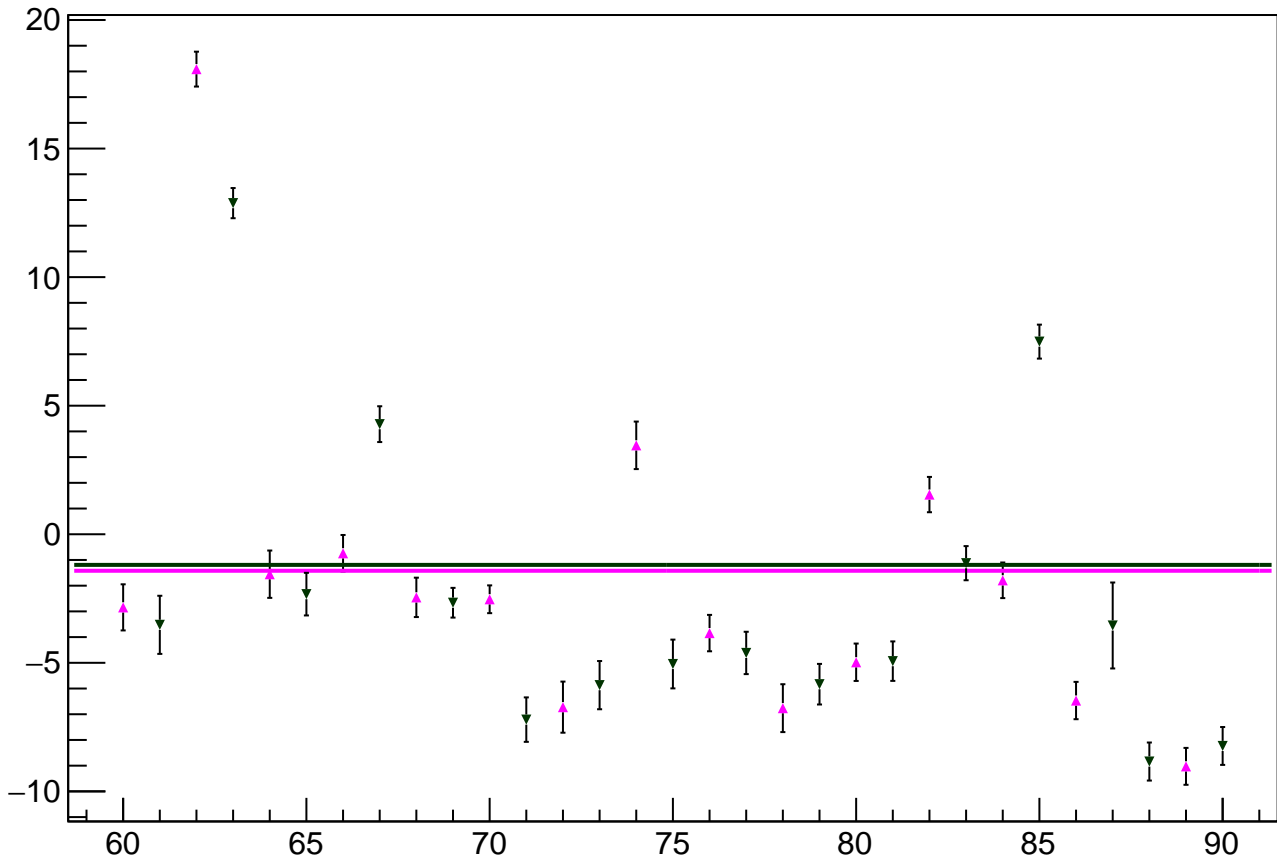
25.779+/-0.155  $\chi^2$ /NDF: 306.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

25.229+/-0.158  $\chi^2$ /NDF: 826.9/14

Left In: 25.229+/-0.158  $\chi^2$ /NDF:826.9/14

# reg\_asym\_us\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1.191+/-0.192  $\chi^2$ /NDF: 1188.0/15

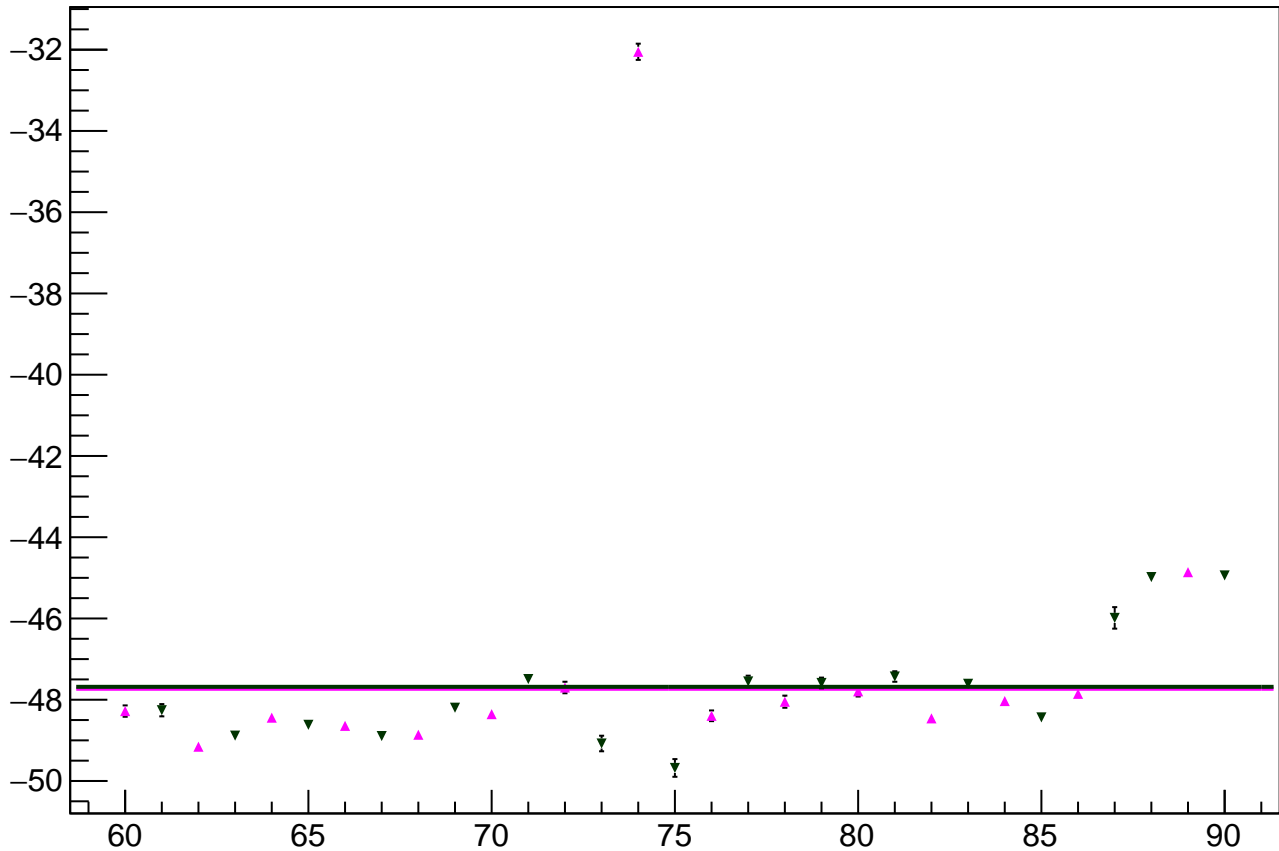
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.420+/-0.193  $\chi^2$ /NDF: 1141.0/14

-1.191+/-0.192  $\chi^2$ /NDF: 1188.0/15

-1.420+/-0.193  $\chi^2$ /NDF: 1141.0/14

# reg\_asym\_us\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -47.682+/-0.029  $\chi^2$ /NDF:2262.9/15

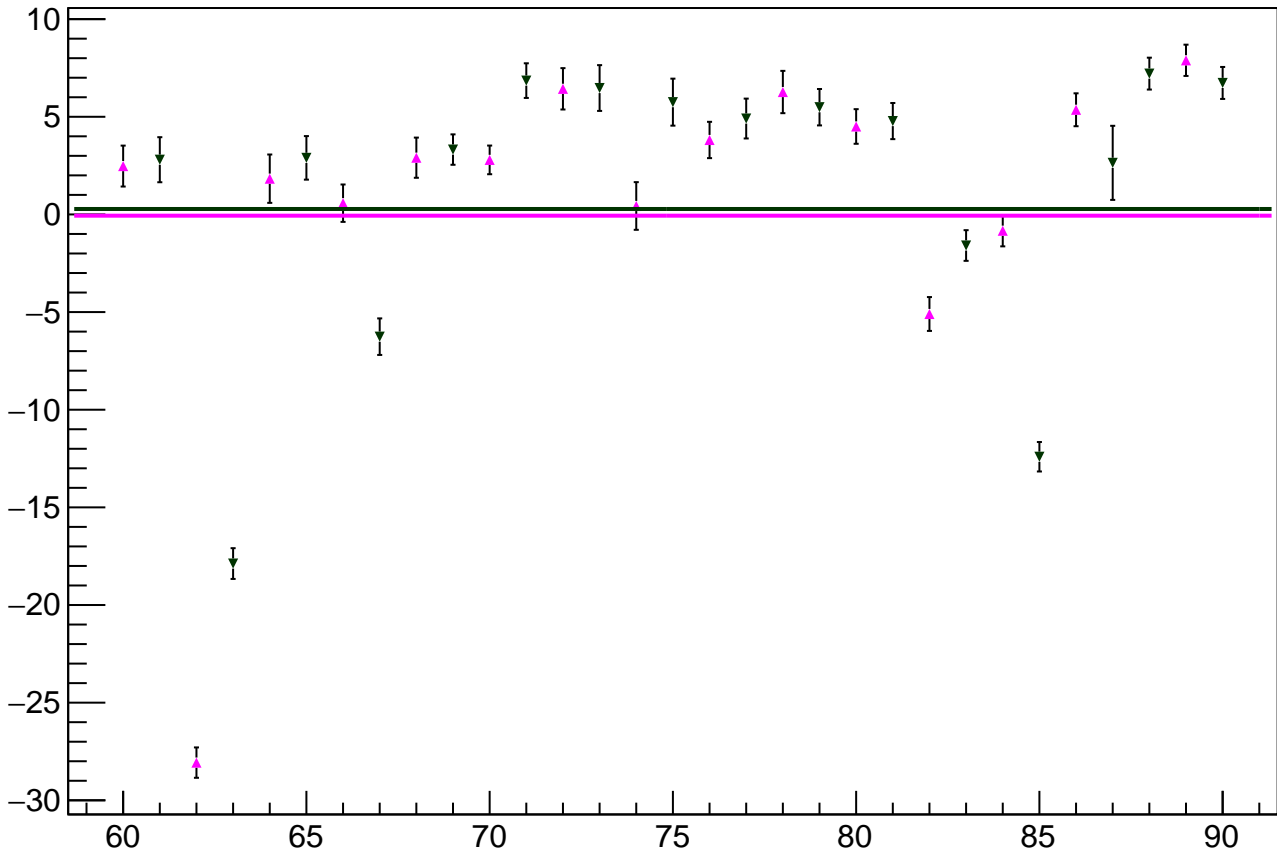
-47.682+/-0.029  $\chi^2$ /NDF: 2262.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -47.731+/-0.029  $\chi^2$ /NDF:7707.2/14

-47.731+/-0.029  $\chi^2$ /NDF: 7707.2/14

# reg\_asym\_us\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.279+/-0.232  $\chi^2/\text{NDF}$ : 1208.8/15

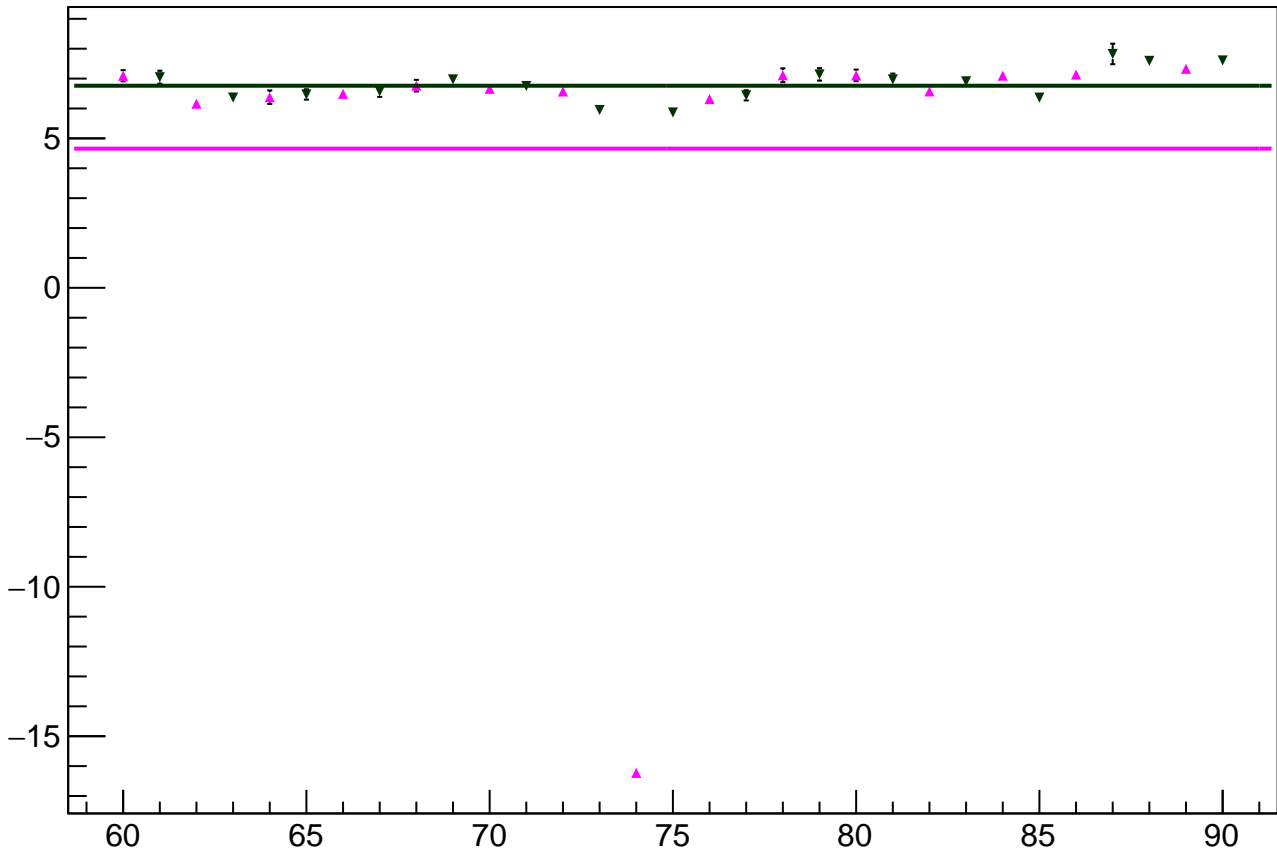
Left Out: 0.279+/-0.232  $\chi^2/\text{NDF}$ : 1208.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-0.064+/-0.237  $\chi^2/\text{NDF}$ : 1620.4/14

Left In: -0.064+/-0.237  $\chi^2/\text{NDF}$ : 1620.4/14

# reg\_asym\_us\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 6.761+/-0.040  $\chi^2$ /NDF:183.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

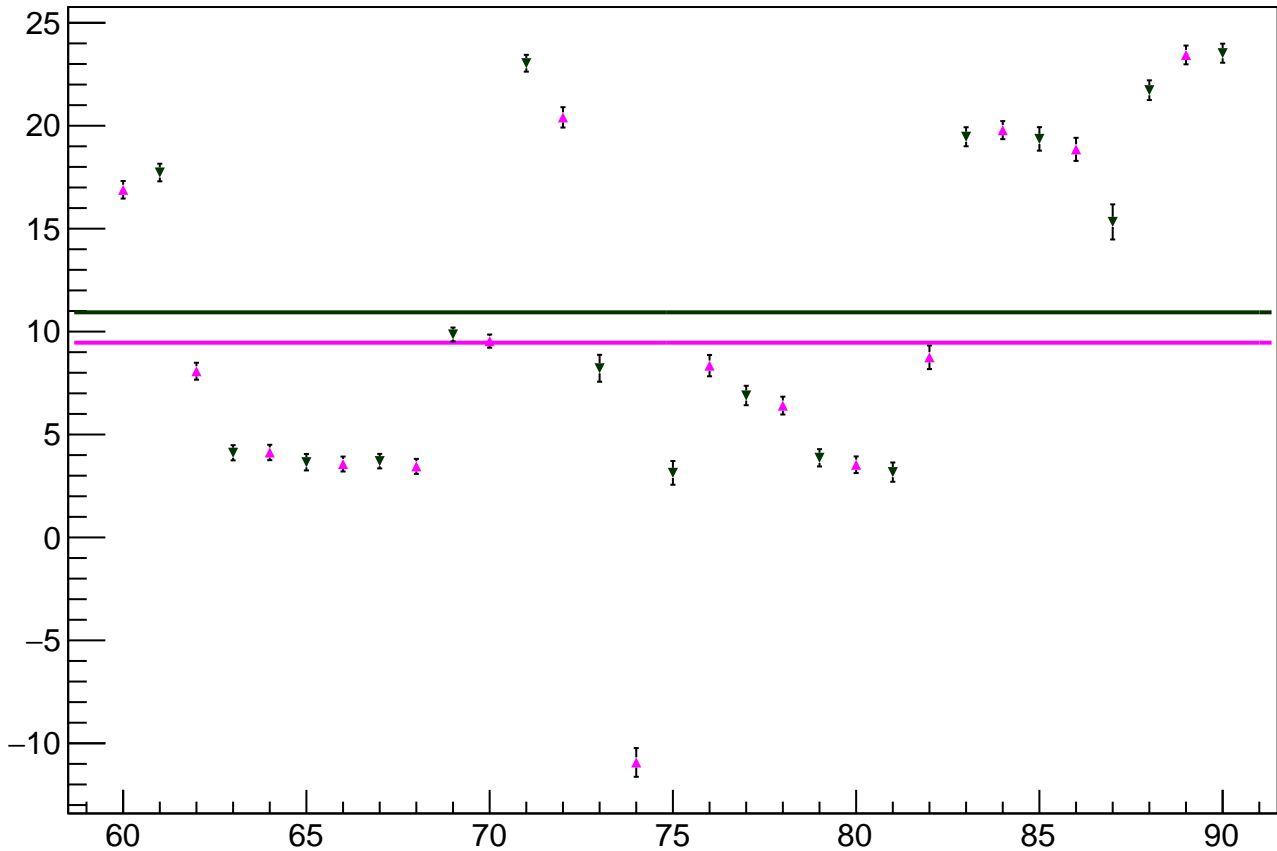
Left In: 4.657+/-0.040  $\chi^2$ /NDF:28205.9/14

6.761+/-0.040  $\chi^2$ /NDF: 183.3/15

4.657+/-0.040  $\chi^2$ /NDF: 28205.9/14



# reg\_asym\_ds\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 10.935+/-0.112  $\chi^2$ /NDF:4896.0/15

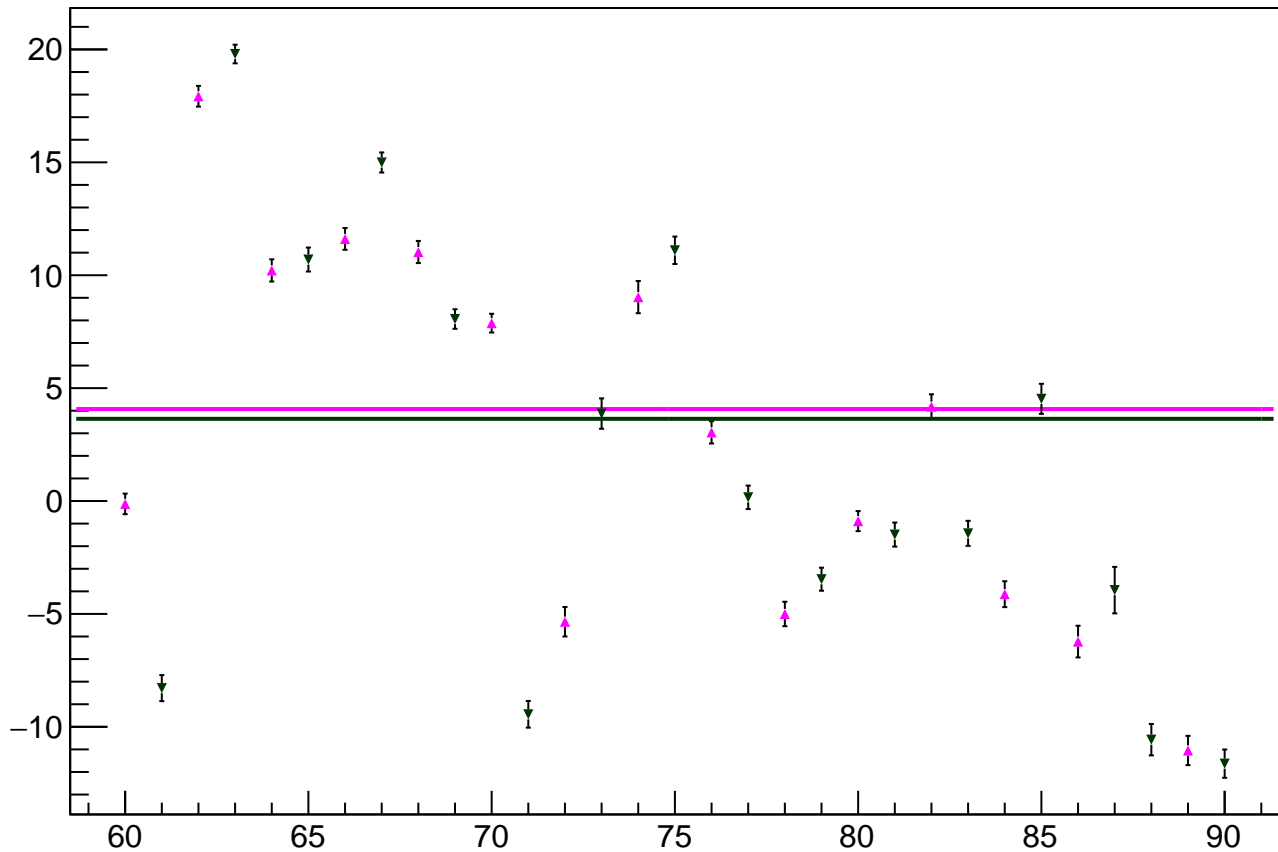
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 9.462+/-0.111  $\chi^2$ /NDF:4446.4/14

10.935+/-0.112  $\chi^2$ /NDF: 4896.0/15

9.462+/-0.111  $\chi^2$ /NDF: 4446.4/14

# reg\_asym\_ds\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.641+/-0.138  $\chi^2/\text{NDF}$ : 5013.2/15

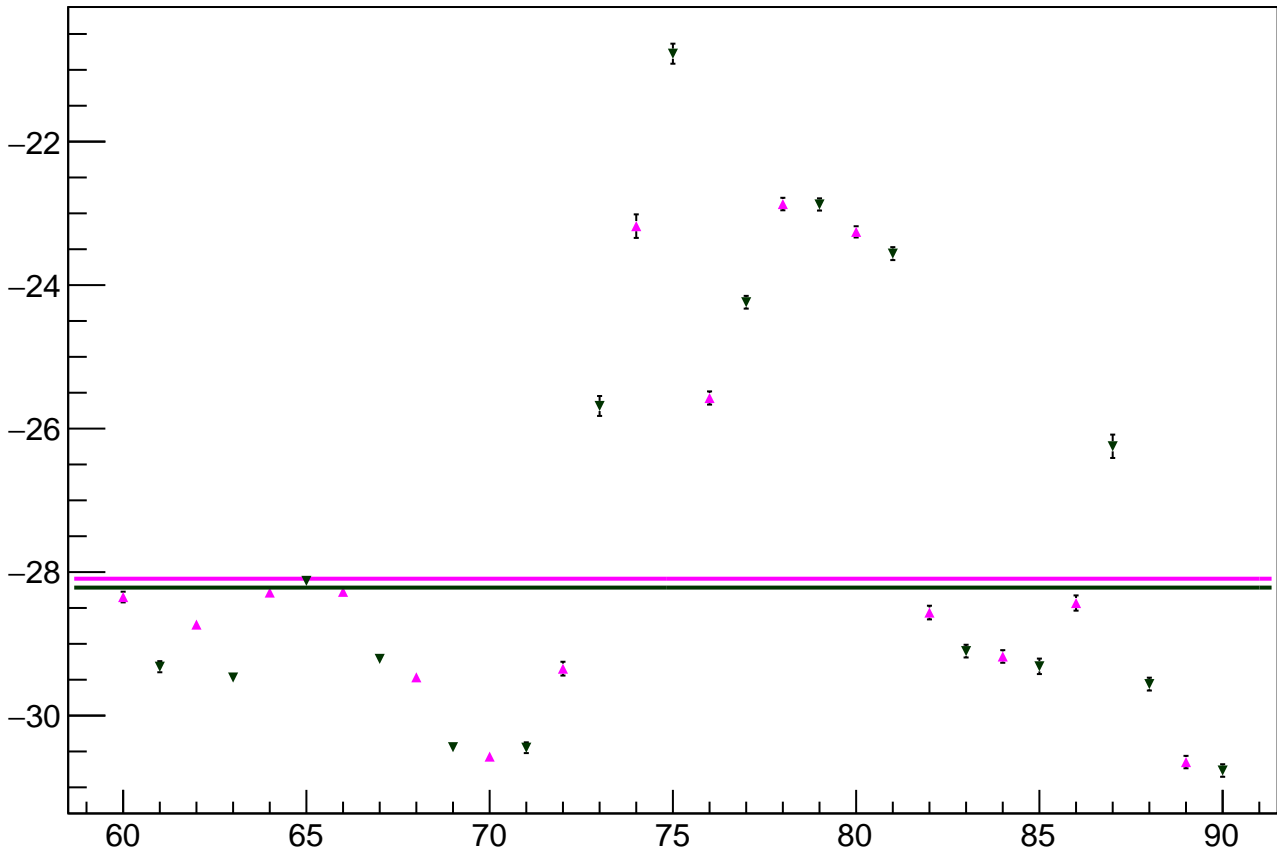
3.641+/-0.138  $\chi^2/\text{NDF}$ : 5013.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.074+/-0.134  $\chi^2/\text{NDF}$ : 3311.7/14

4.074+/-0.134  $\chi^2/\text{NDF}$ : 3311.7/14

# reg\_asym\_ds\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -28.216+/-0.020  $\chi^2$ /NDF:16096.7/15

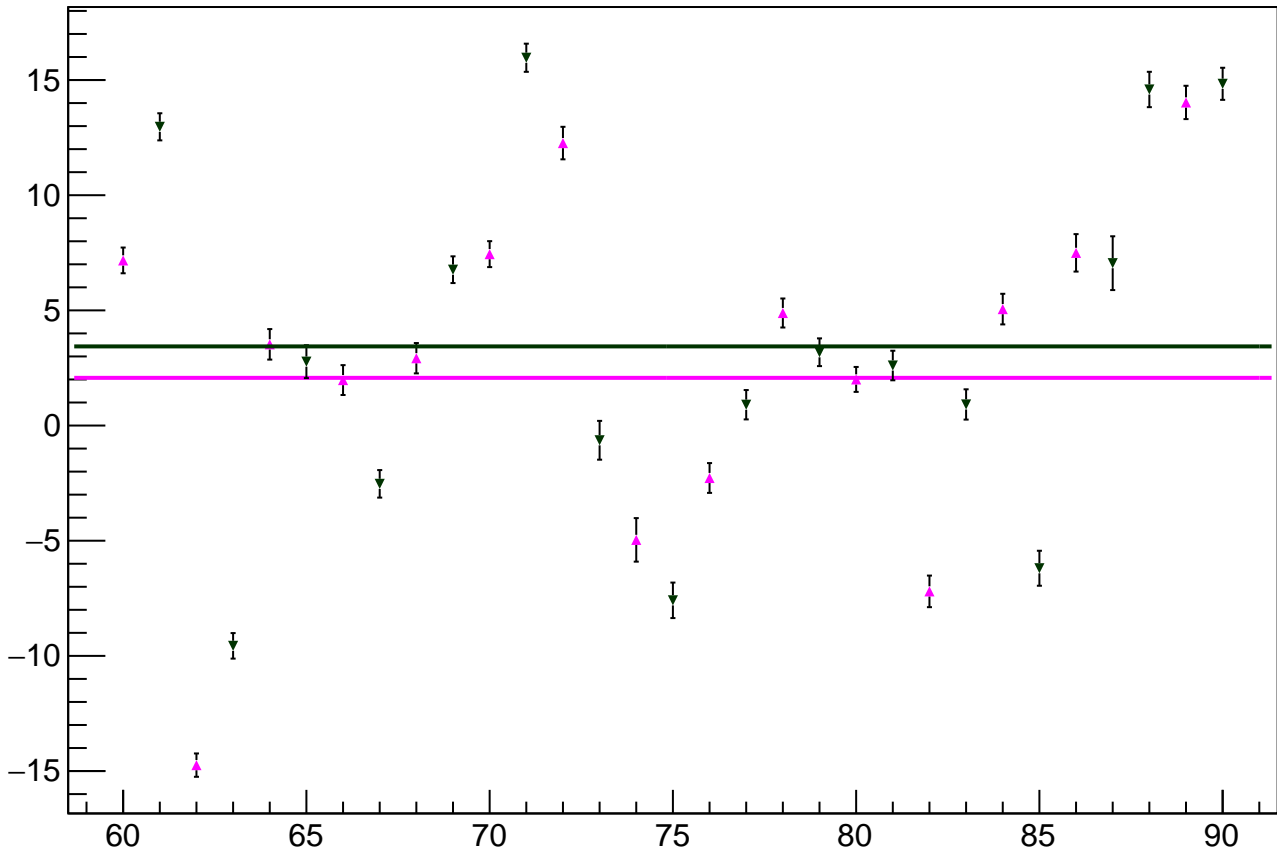
-28.216+/-0.020  $\chi^2$ /NDF: 16096.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -28.092+/-0.020  $\chi^2$ /NDF:12389.3/14

-28.092+/-0.020  $\chi^2$ /NDF: 12389.3/14

# reg\_asym\_ds\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.436+/-0.167  $\chi^2/\text{NDF}$ :2275.9/15

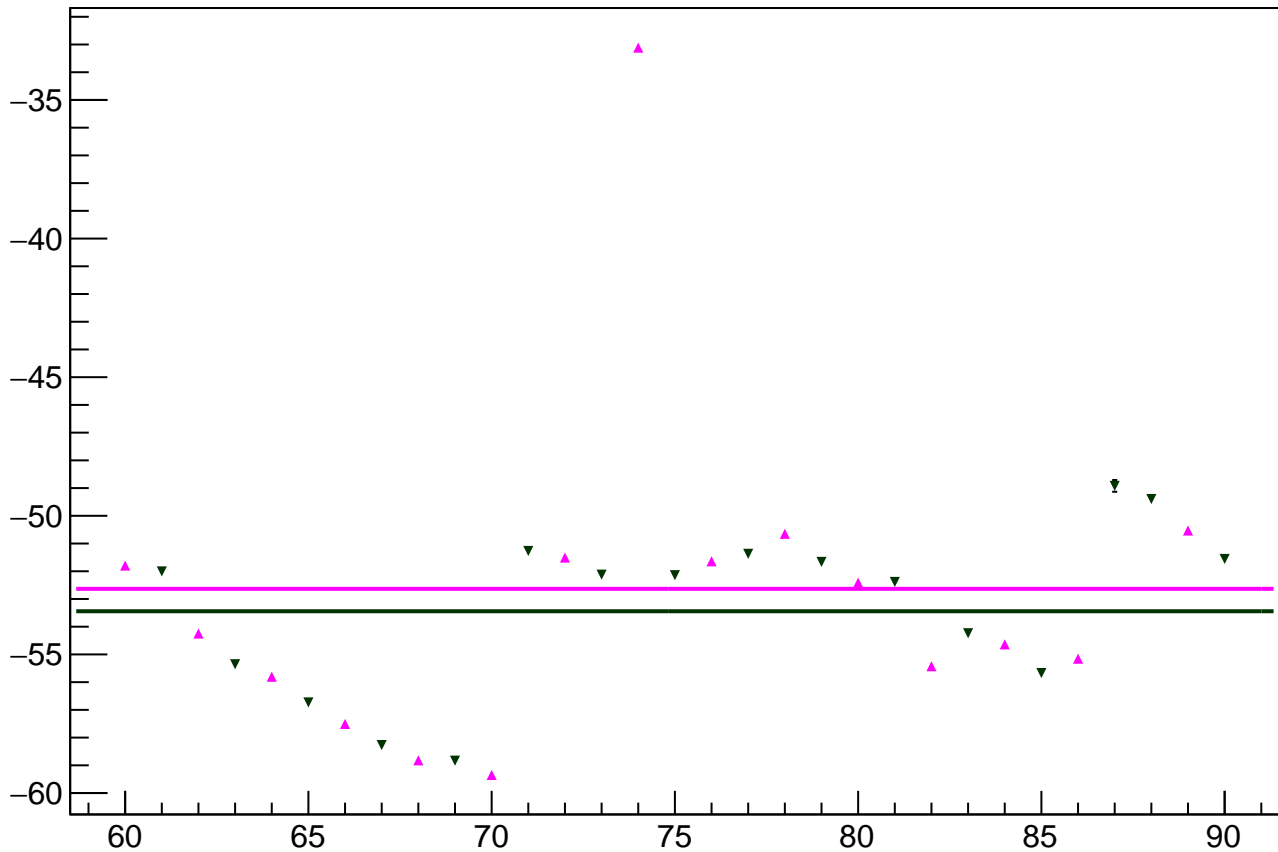
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.071+/-0.166  $\chi^2/\text{NDF}$ :2131.2/14

3.436+/-0.167  $\chi^2/\text{NDF}$ : 2275.9/15

2.071+/-0.166  $\chi^2/\text{NDF}$ : 2131.2/14

# reg\_asym\_ds\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -53.442+/-0.029  $\chi^2$ /NDF:9009.2/15

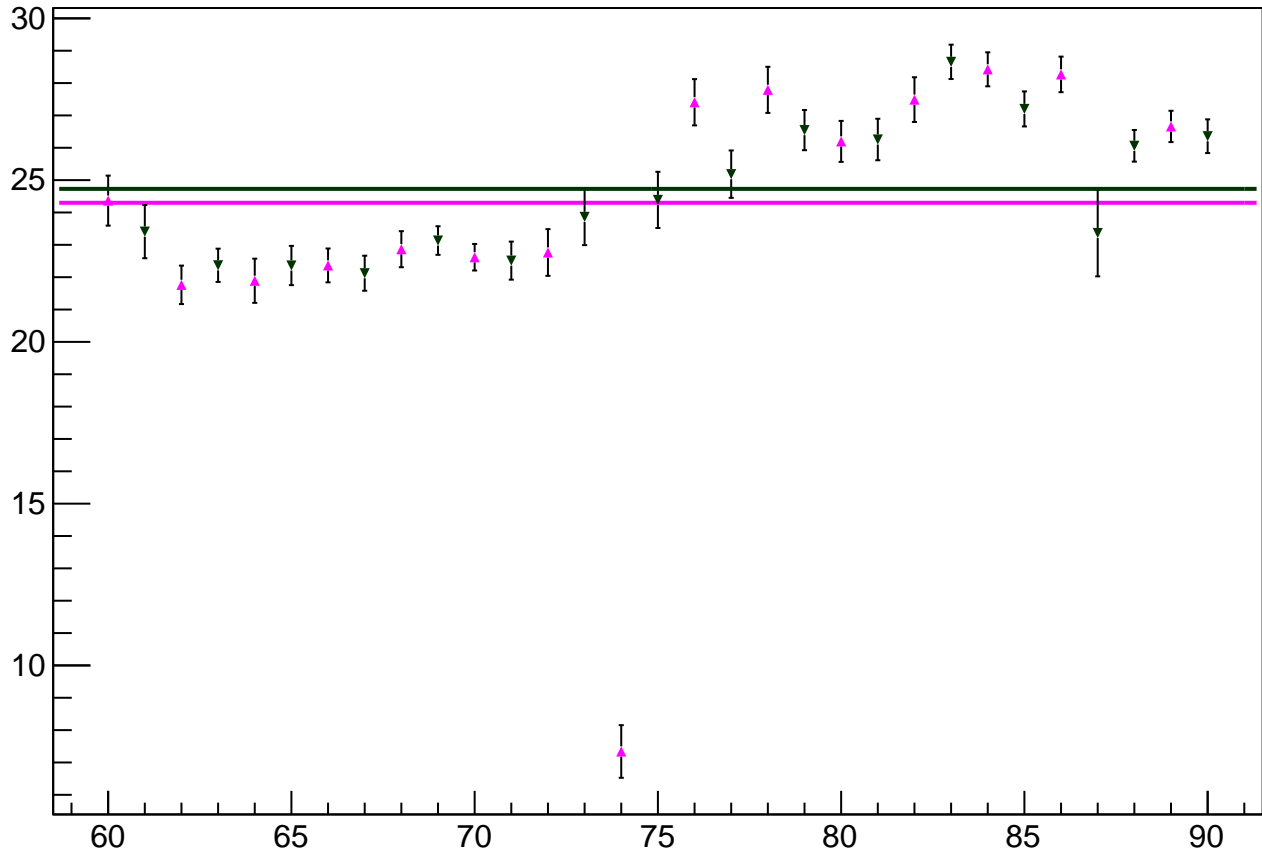
-53.442+/-0.029  $\chi^2$ /NDF: 9009.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -52.634+/-0.029  $\chi^2$ /NDF:45743.0/14

-52.634+/-0.029  $\chi^2$ /NDF: 45743.0/14

# reg\_asym\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 24.730+/-0.150  $\chi^2$ /NDF:198.9/15

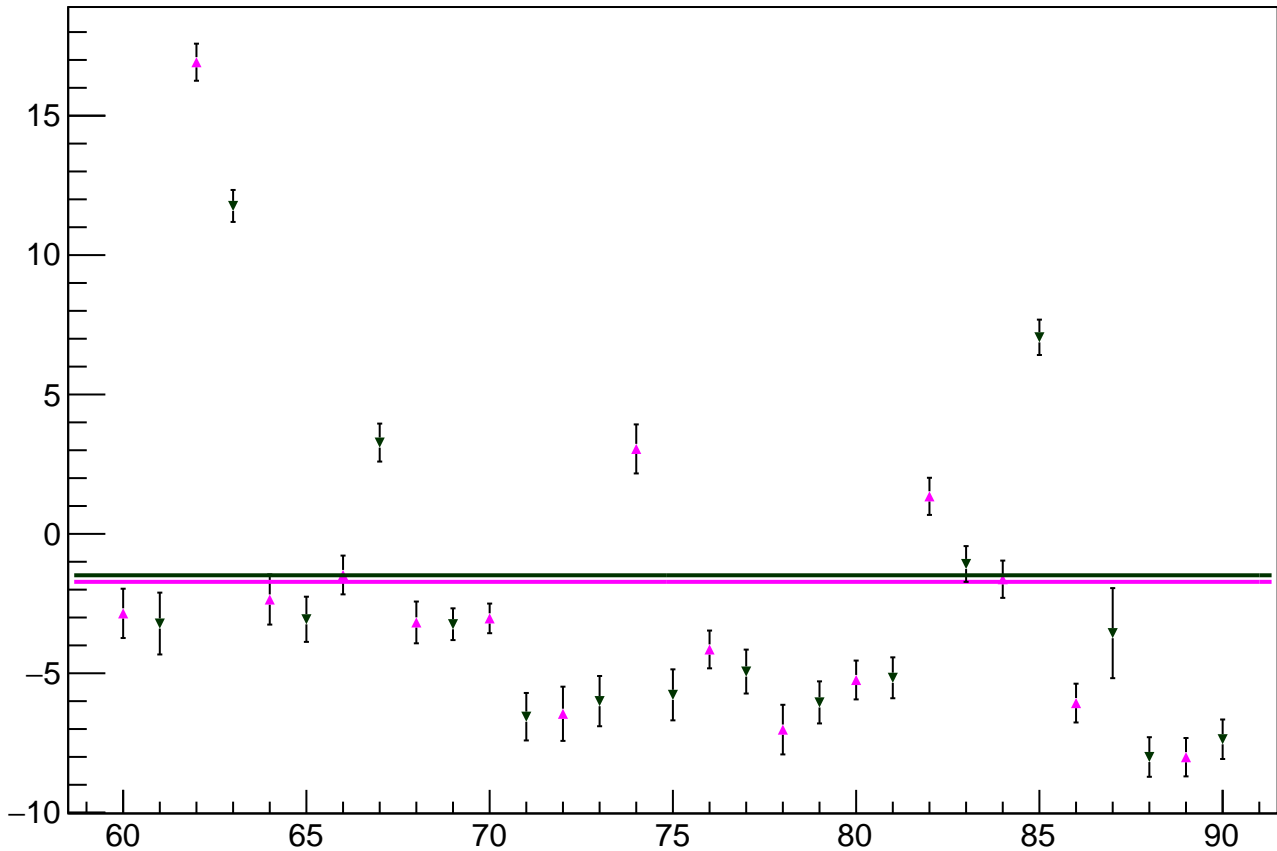
24.730+/-0.150  $\chi^2$ /NDF: 198.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

24.300+/-0.153  $\chi^2$ /NDF: 717.9/14

Left In: 24.300+/-0.153  $\chi^2$ /NDF:717.9/14

# reg\_asym\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1.485+/-0.186  $\chi^2$ /NDF:1097.8/15

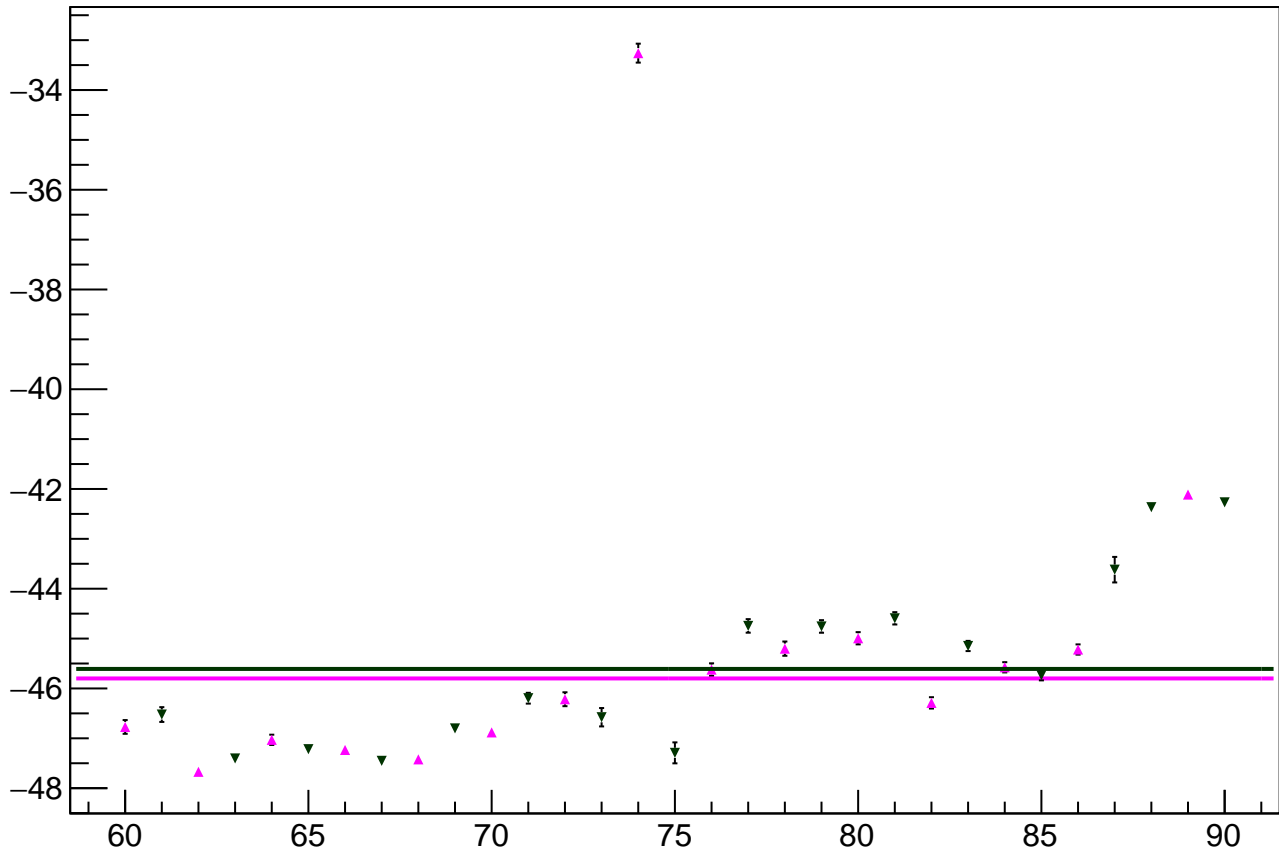
-1.485+/-0.186  $\chi^2$ /NDF: 1097.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.721+/-0.187  $\chi^2$ /NDF:1068.8/14

-1.721+/-0.187  $\chi^2$ /NDF: 1068.8/14

# reg\_asym\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -45.609+/-0.028  $\chi^2$ /NDF:4137.7/15

-45.609+/-0.028  $\chi^2$ /NDF: 4137.7/15

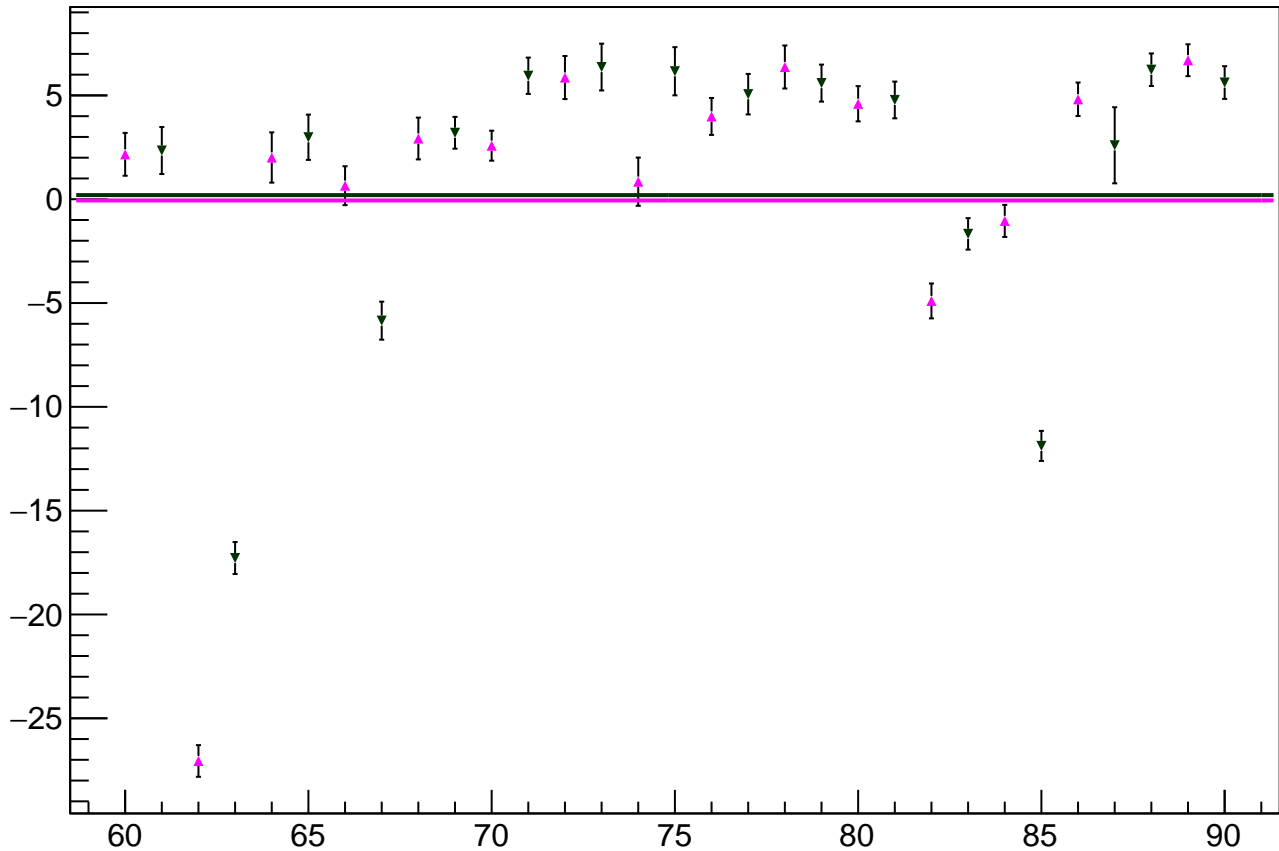
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -45.800+/-0.028  $\chi^2$ /NDF:7398.4/14

-45.800+/-0.028  $\chi^2$ /NDF: 7398.4/14



# reg\_asym\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.199 $\pm$ 0.225  $\chi^2$ /NDF:1164.9/15

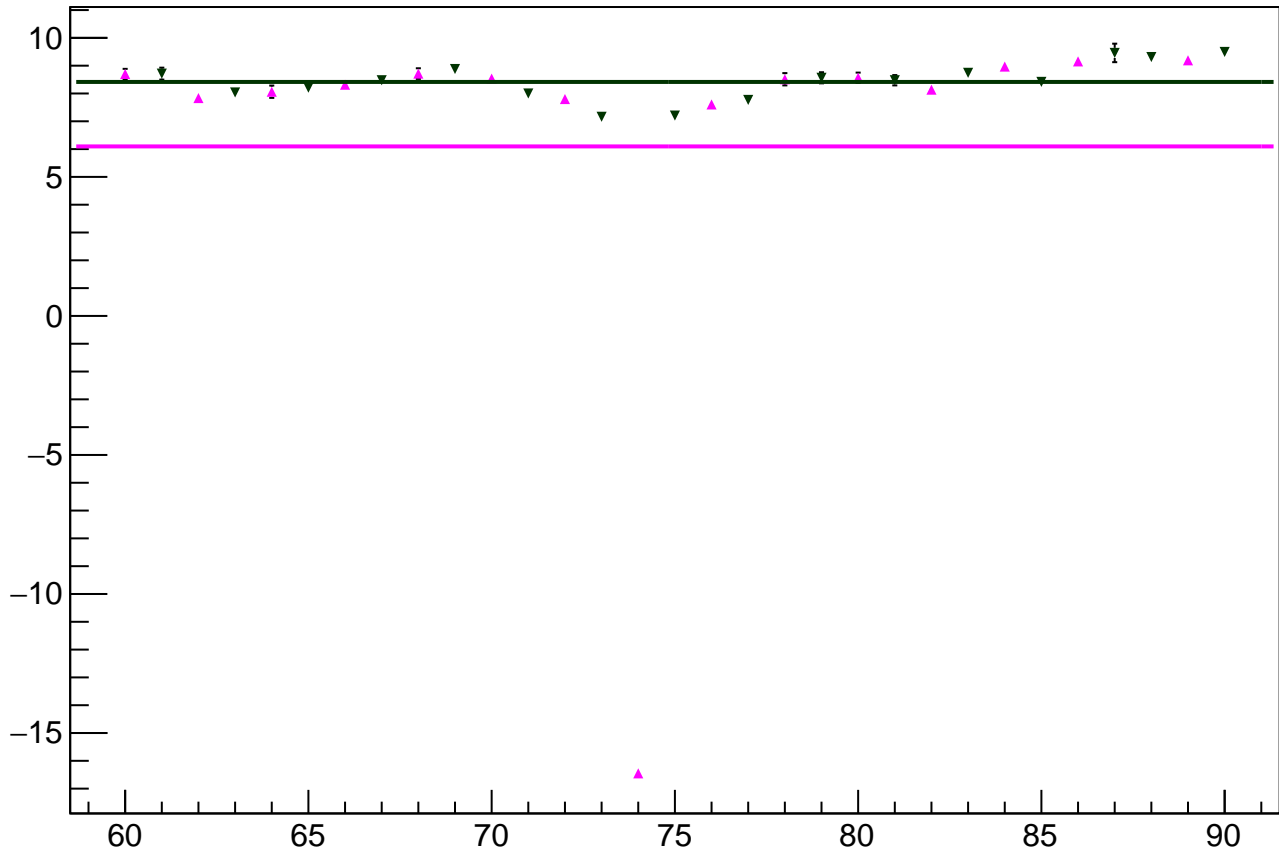
0.199 $\pm$ 0.225  $\chi^2$ /NDF: 1164.9/15

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

-0.058 $\pm$ 0.230  $\chi^2$ /NDF: 1555.2/14

Left In: -0.058 $\pm$ 0.230  $\chi^2$ /NDF:1555.2/14

# reg\_asym\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8.415+/-0.039  $\chi^2$ /NDF: 317.3/15

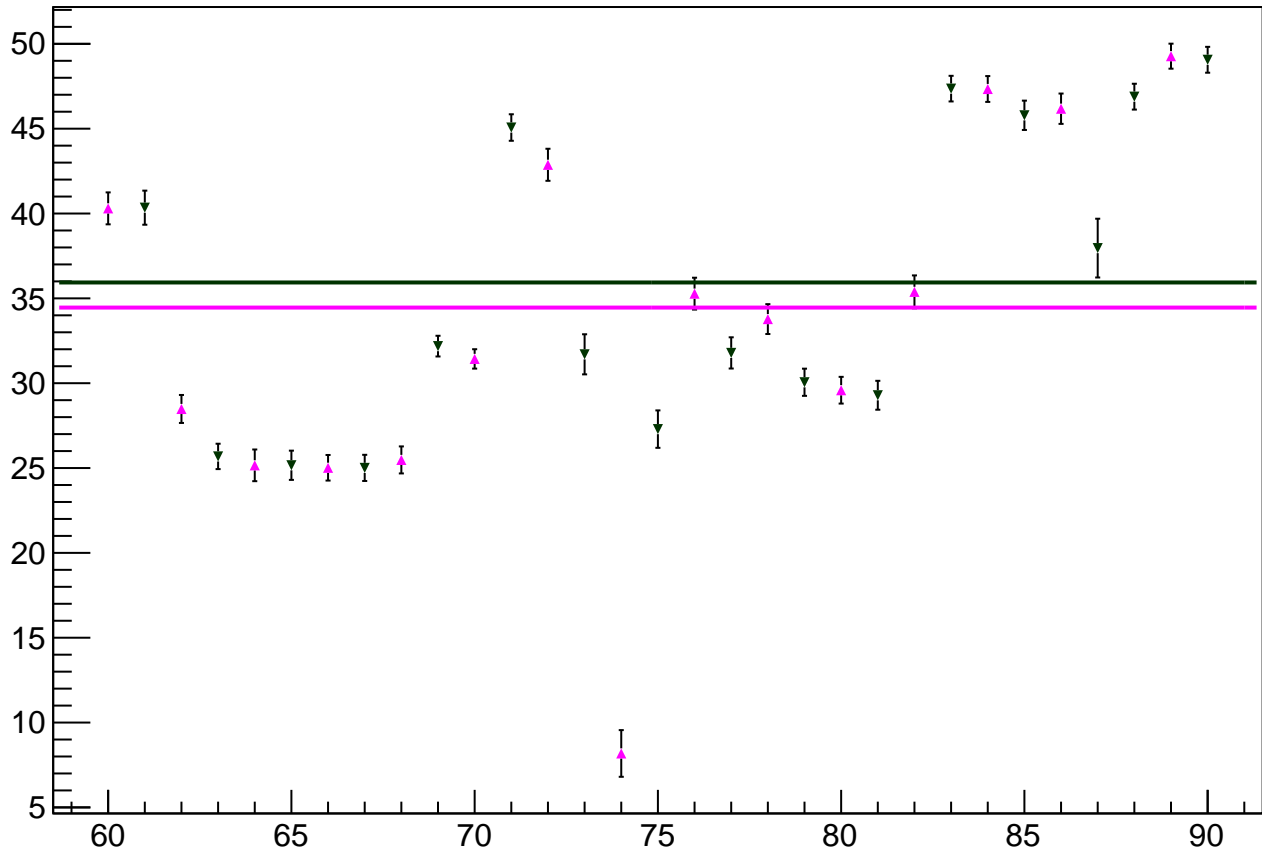
8.415+/-0.039  $\chi^2$ /NDF: 317.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

6.096+/-0.038  $\chi^2$ /NDF: 36651.2/14

Left In: 6.096+/-0.038  $\chi^2$ /NDF: 36651.2/14

# reg\_asym\_left\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 35.936+/-0.210  $\chi^2$ /NDF:1811.9/15

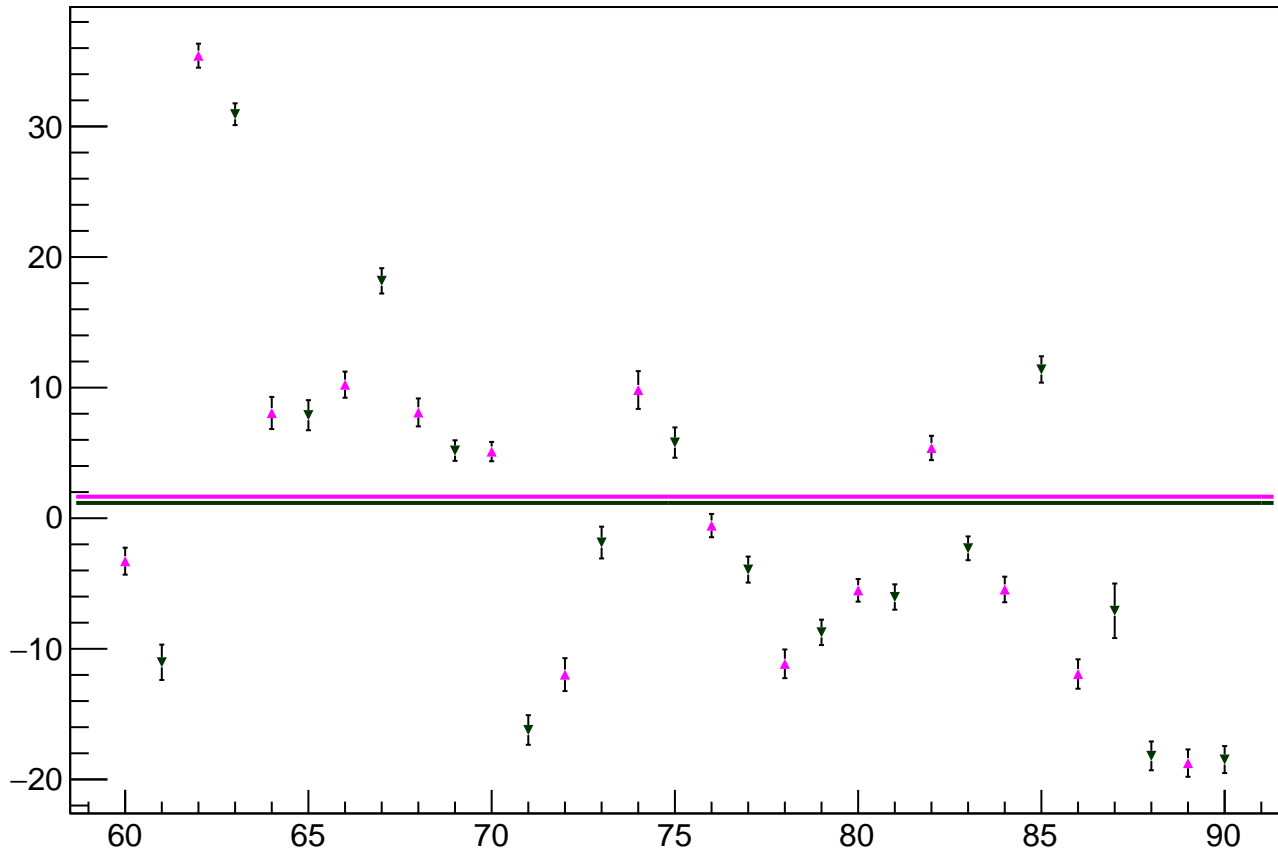
35.936+/-0.210  $\chi^2$ /NDF: 1811.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 34.457+/-0.215  $\chi^2$ /NDF:1849.2/14

34.457+/-0.215  $\chi^2$ /NDF: 1849.2/14

# reg\_asym\_left\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.170+/-0.259  $\chi^2$ /NDF:2965.3/15

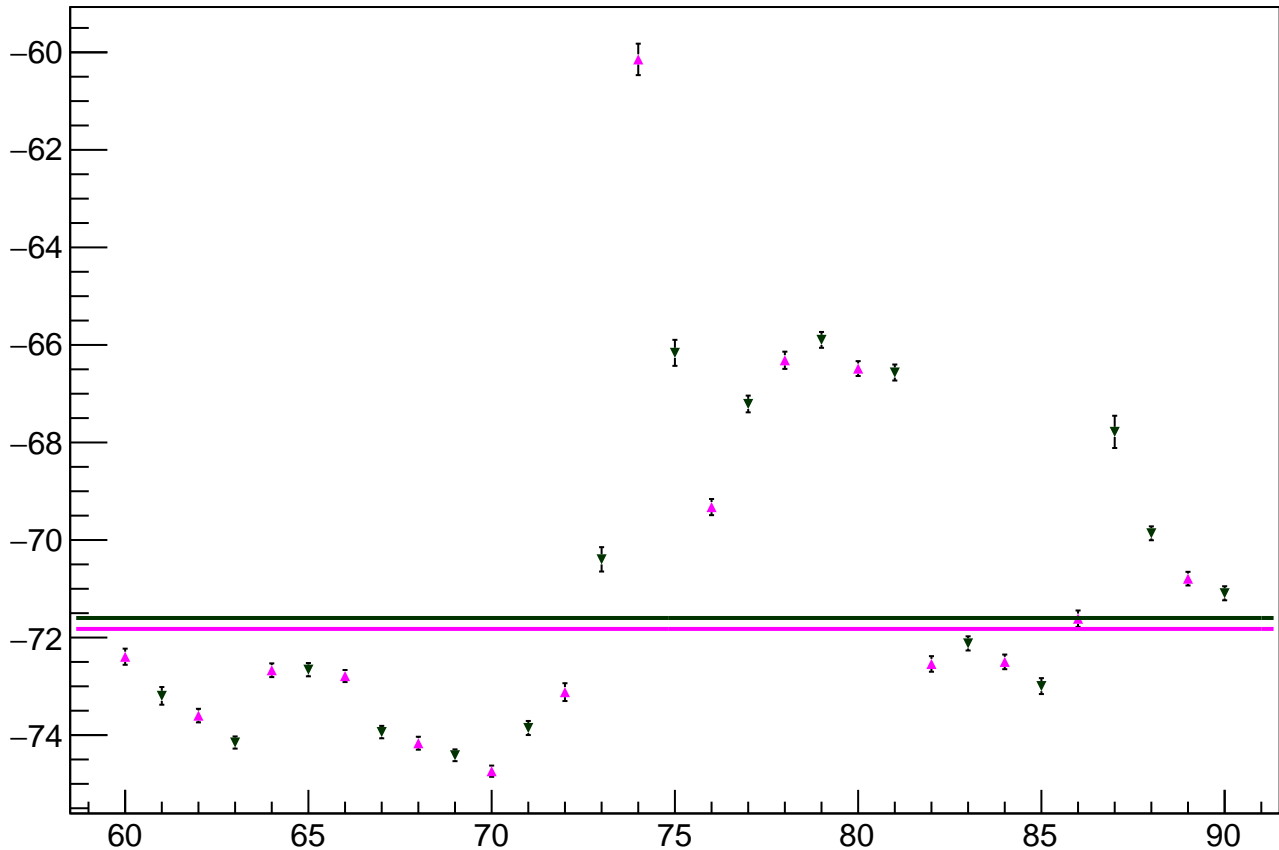
1.170+/-0.259  $\chi^2$ /NDF: 2965.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1.649+/-0.259  $\chi^2$ /NDF: 2481.8/14

Left In: 1.649+/-0.259  $\chi^2$ /NDF:2481.8/14

# reg\_asym\_left\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -71.599+/-0.039  $\chi^2/\text{NDF}$ : 5321.1/15

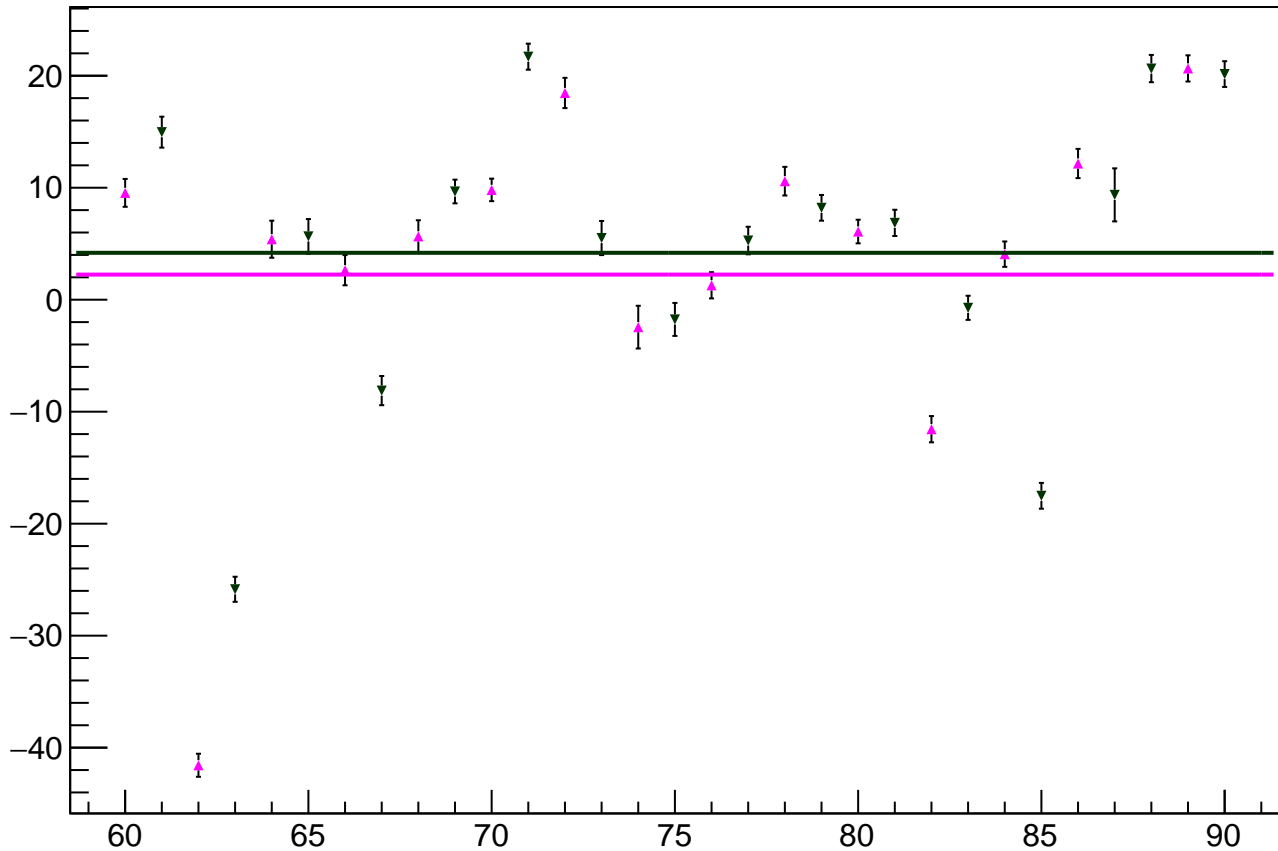
-71.599+/-0.039  $\chi^2/\text{NDF}$ : 5321.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -71.823+/-0.039  $\chi^2/\text{NDF}$ : 5109.3/14

-71.823+/-0.039  $\chi^2/\text{NDF}$ : 5109.3/14

# reg\_asym\_left\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.188+/-0.313  $\chi^2/\text{NDF}$ :1914.3/15

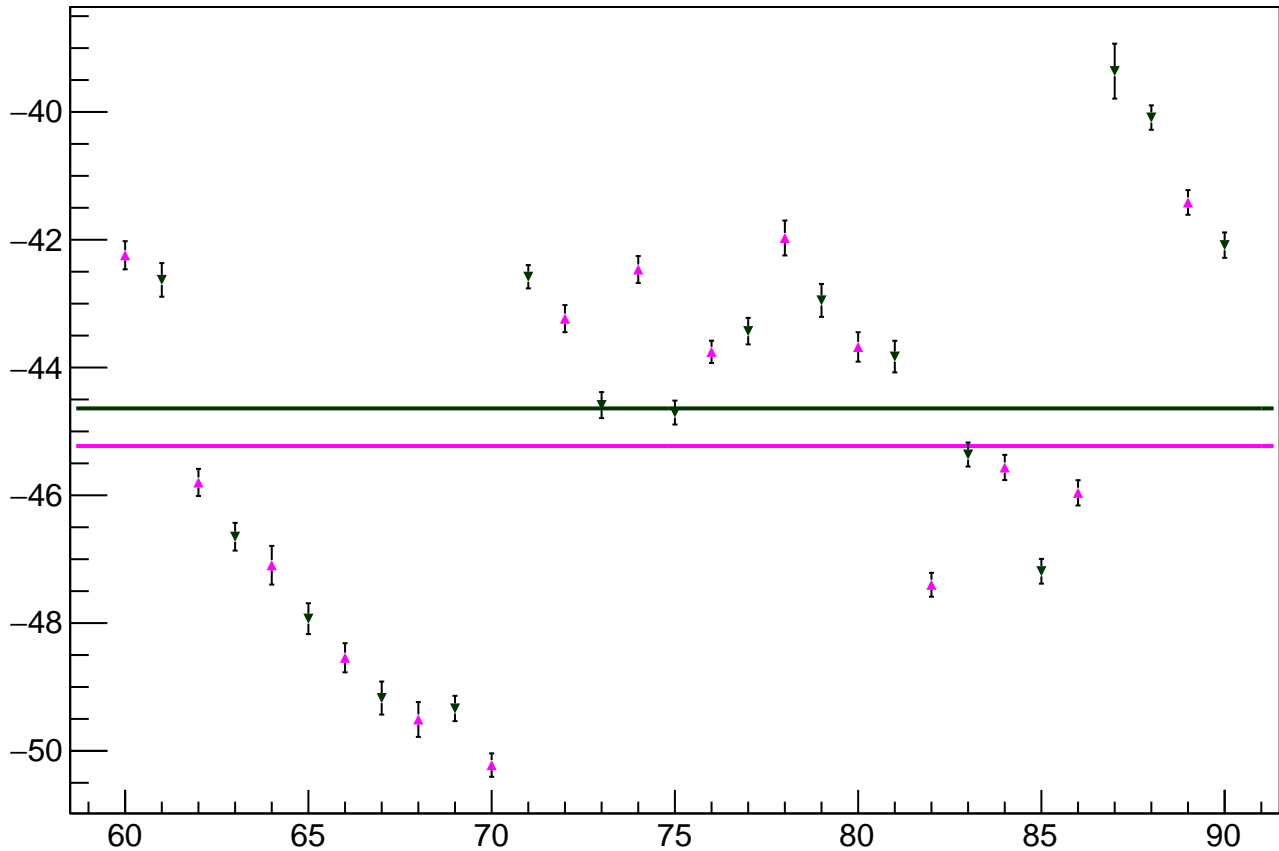
4.188+/-0.313  $\chi^2/\text{NDF}$ : 1914.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

2.243+/-0.318  $\chi^2/\text{NDF}$ : 2562.9/14

Left In: 2.243+/-0.318  $\chi^2/\text{NDF}$ :2562.9/14

# reg\_asym\_left\_avg\_diff\_bpm11X\_slope vs slug



Right In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left Out:  $-44.640 \pm 0.054$   $\chi^2/\text{NDF}: 2486.0/15$

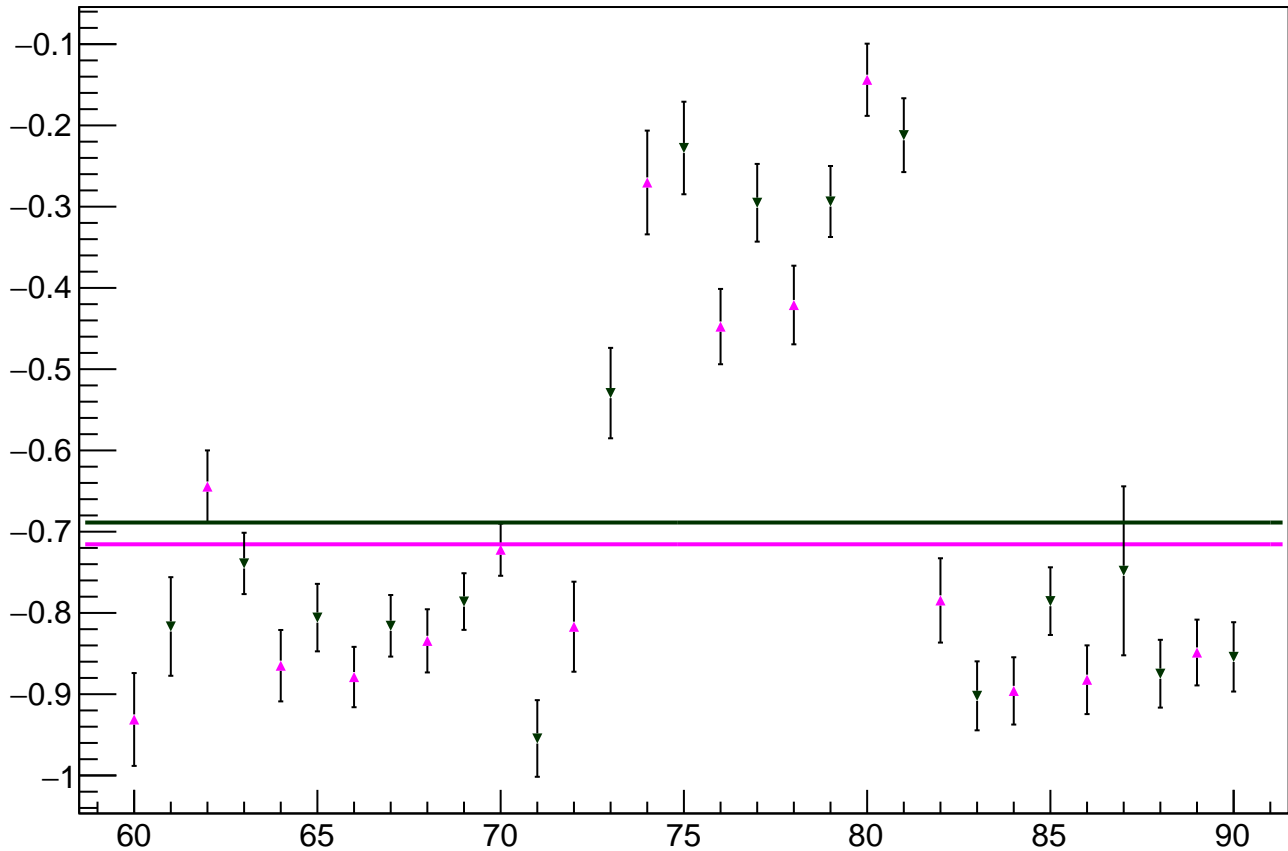
$-44.640 \pm 0.054$   $\chi^2/\text{NDF}: 2486.0/15$

Right Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Left In:  $-45.229 \pm 0.055$   $\chi^2/\text{NDF}: 2489.0/14$

$-45.229 \pm 0.055$   $\chi^2/\text{NDF}: 2489.0/14$

# reg\_asym\_left\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.689+/-0.011  $\chi^2$ /NDF:464.0/15

-0.689+/-0.011  $\chi^2$ /NDF: 464.0/15

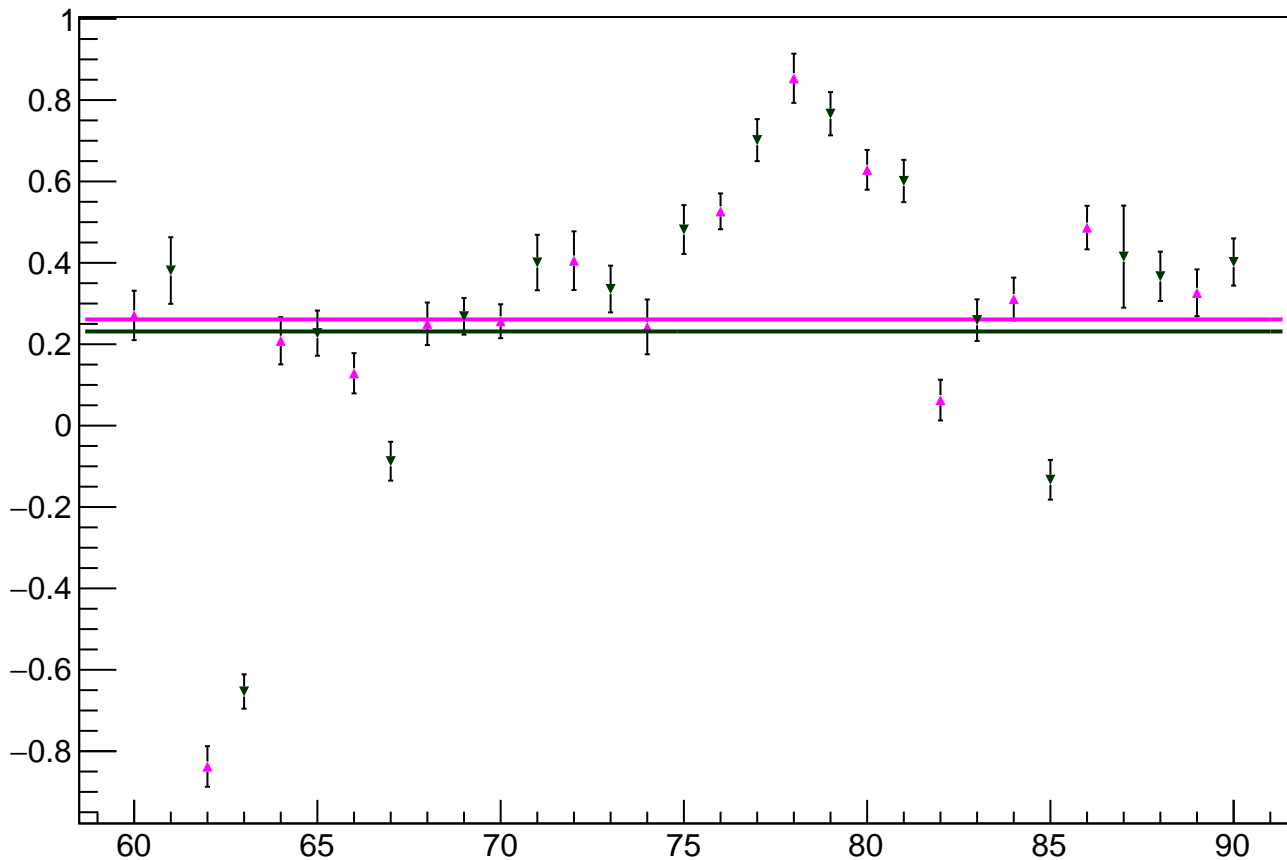
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.716+/-0.011  $\chi^2$ /NDF: 392.2/14

Left In: -0.716+/-0.011  $\chi^2$ /NDF:392.2/14



# reg\_asym\_left\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.231+/-0.014  $\chi^2$ /NDF:822.4/15

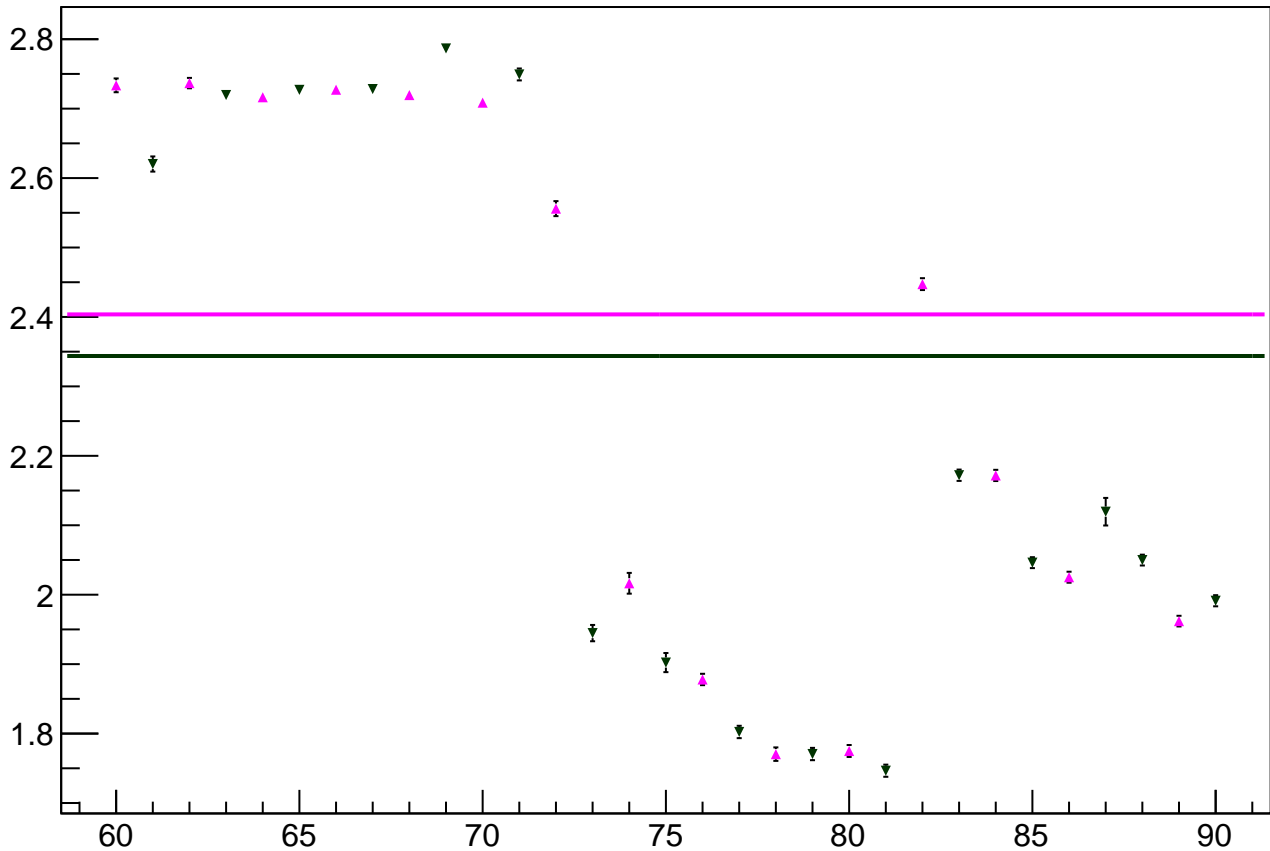
0.231+/-0.014  $\chi^2$ /NDF: 822.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.261+/-0.014  $\chi^2$ /NDF:721.9/14

0.261+/-0.014  $\chi^2$ /NDF: 721.9/14

# reg\_asym\_left\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 2.344+/-0.002  $\chi^2/\text{NDF}$ :37809.5/15

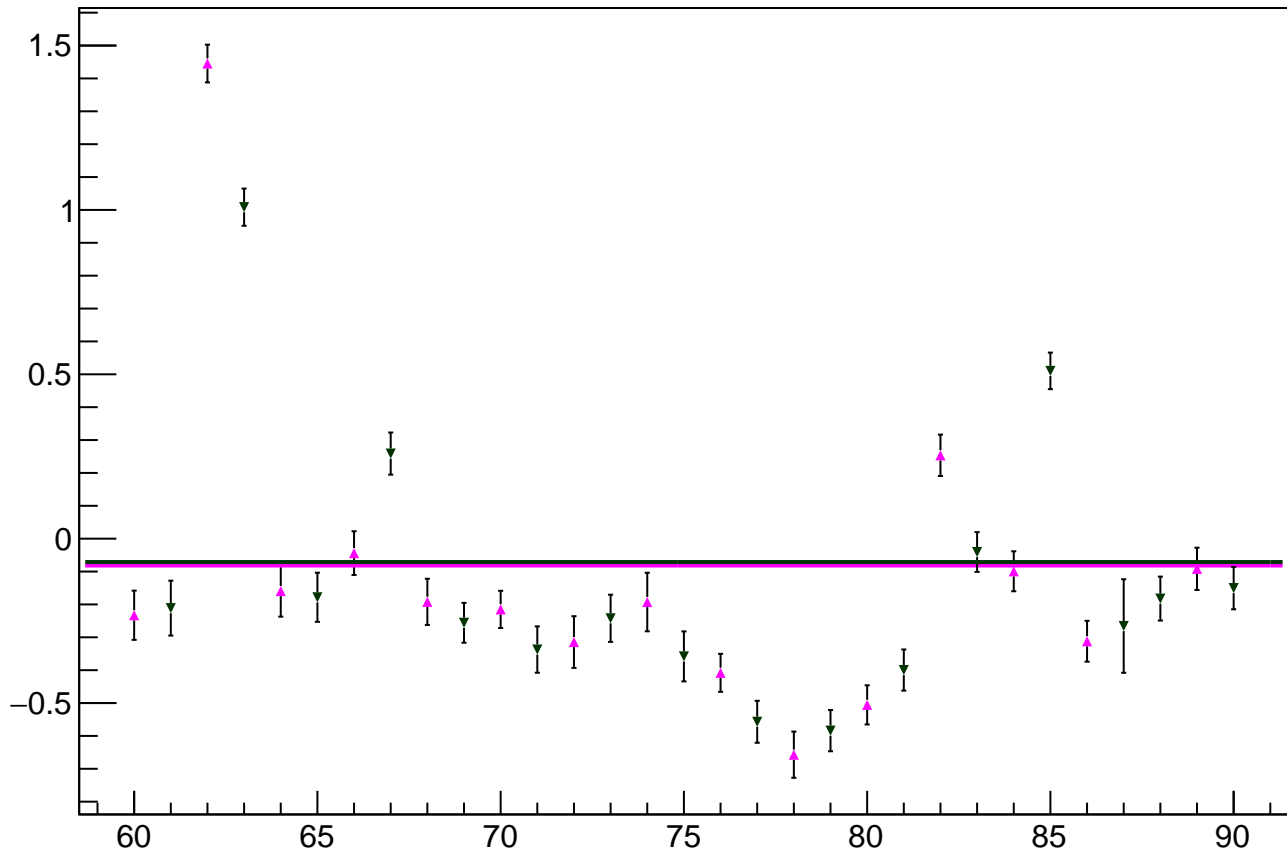
2.344+/-0.002  $\chi^2/\text{NDF}$ : 37809.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.404+/-0.002  $\chi^2/\text{NDF}$ :33756.7/14

2.404+/-0.002  $\chi^2/\text{NDF}$ : 33756.7/14

# reg\_asym\_left\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.071+/-0.017  $\chi^2$ /NDF:705.8/15

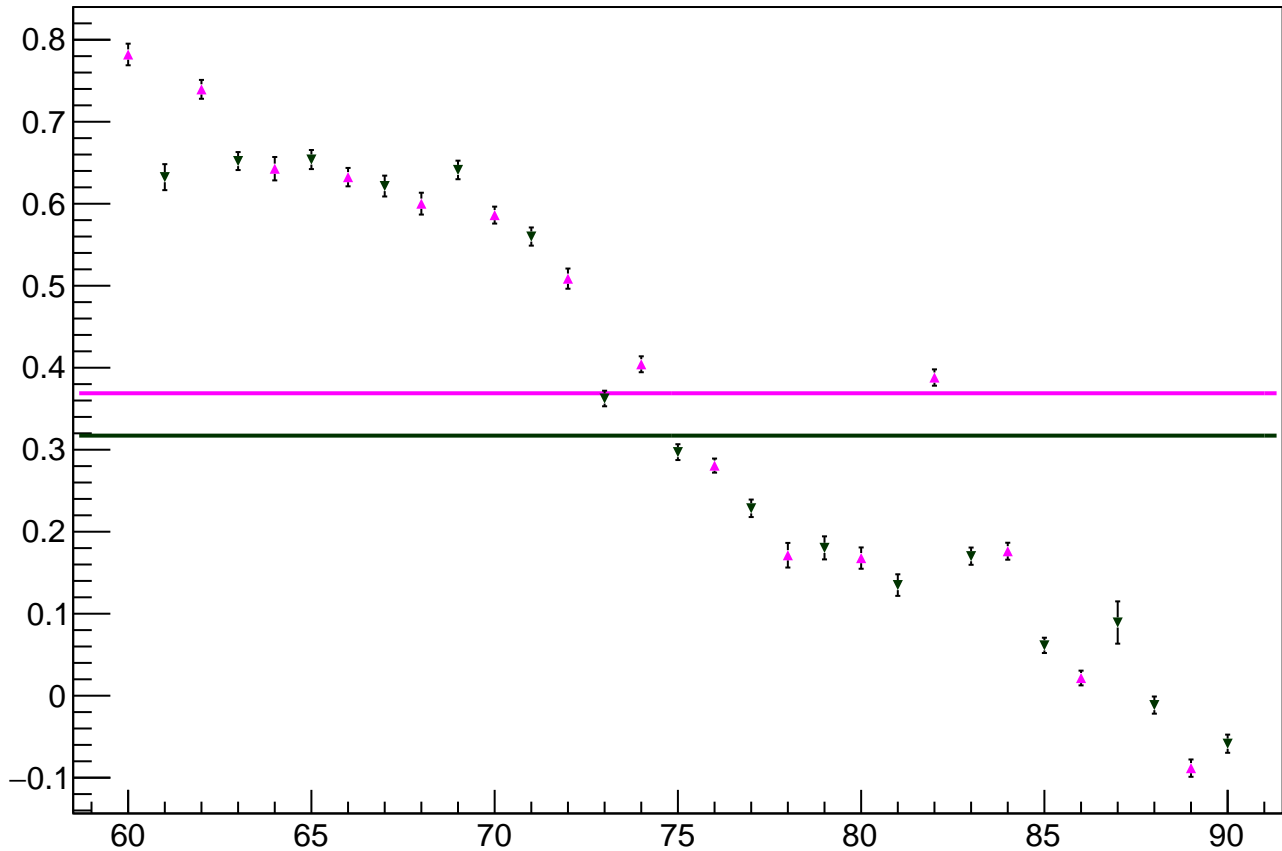
-0.071+/-0.017  $\chi^2$ /NDF: 705.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.082+/-0.017  $\chi^2$ /NDF:923.0/14

-0.082+/-0.017  $\chi^2$ /NDF: 923.0/14

# reg\_asym\_left\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.317+/-0.003  $\chi^2$ /NDF:7580.6/15

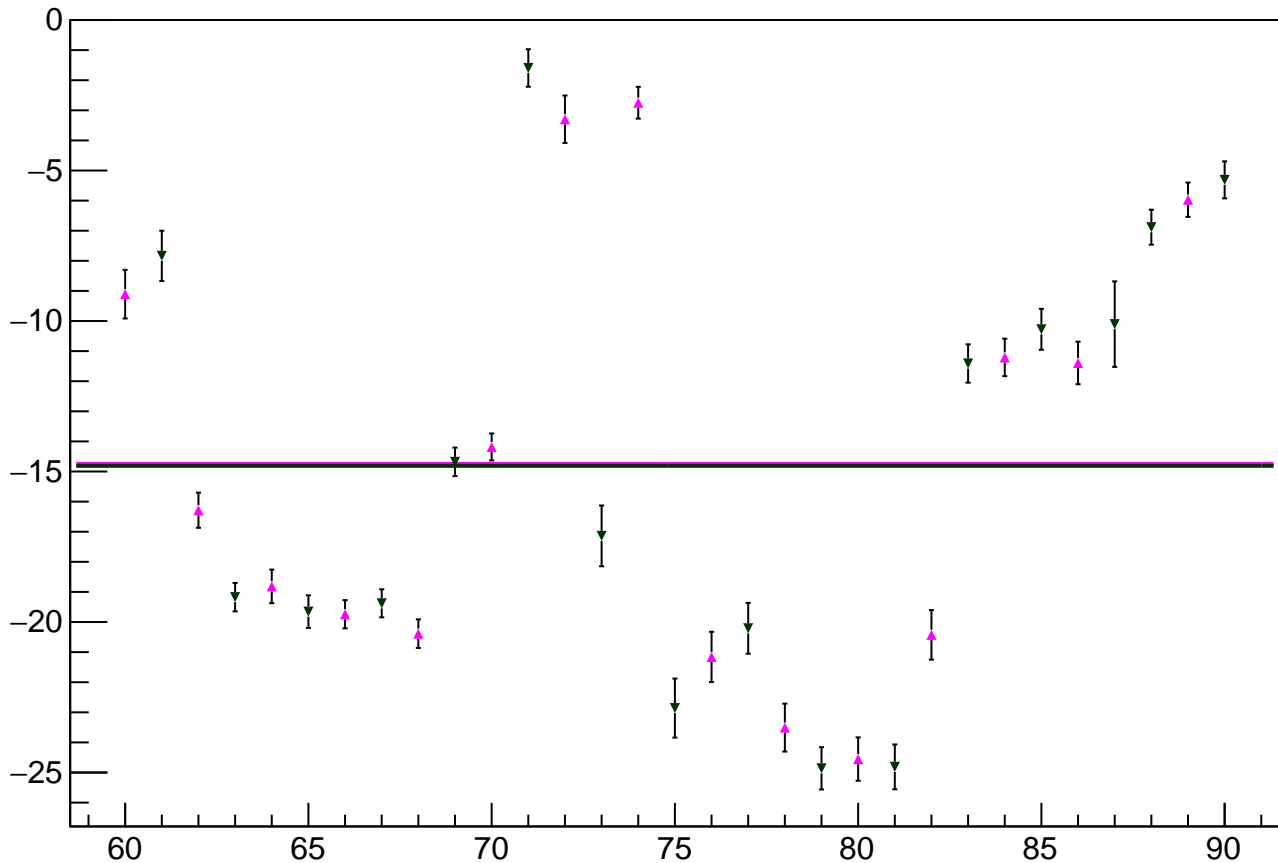
0.317+/-0.003  $\chi^2$ /NDF: 7580.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.369+/-0.003  $\chi^2$ /NDF:8058.0/14

0.369+/-0.003  $\chi^2$ /NDF: 8058.0/14

# reg\_asym\_right\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -14.810+/-0.160  $\chi^2$ /NDF:1788.5/15

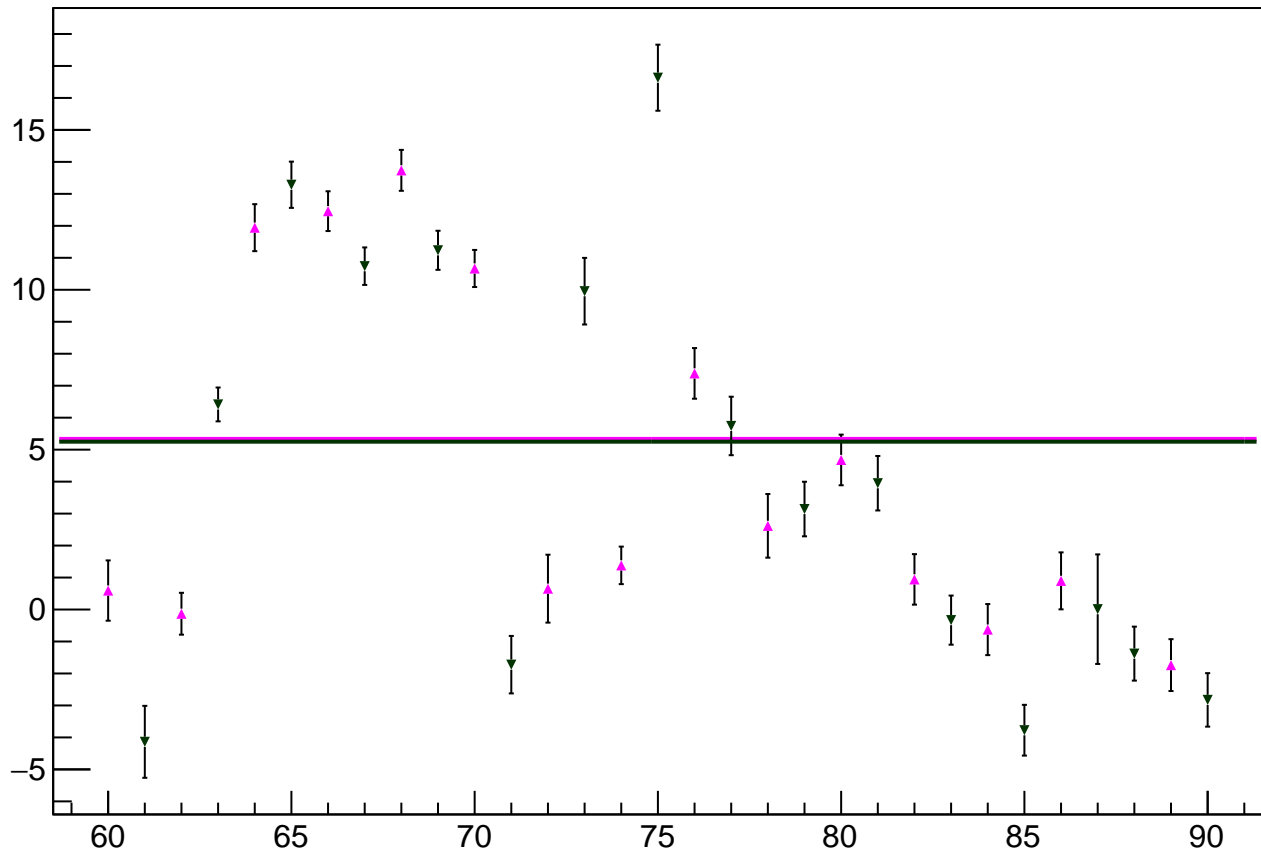
-14.810+/-0.160  $\chi^2$ /NDF: 1788.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -14.745+/-0.156  $\chi^2$ /NDF:1798.3/14

-14.745+/-0.156  $\chi^2$ /NDF: 1798.3/14

# reg\_asym\_right\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.250+/-0.199  $\chi^2/\text{NDF}$ : 938.6/15

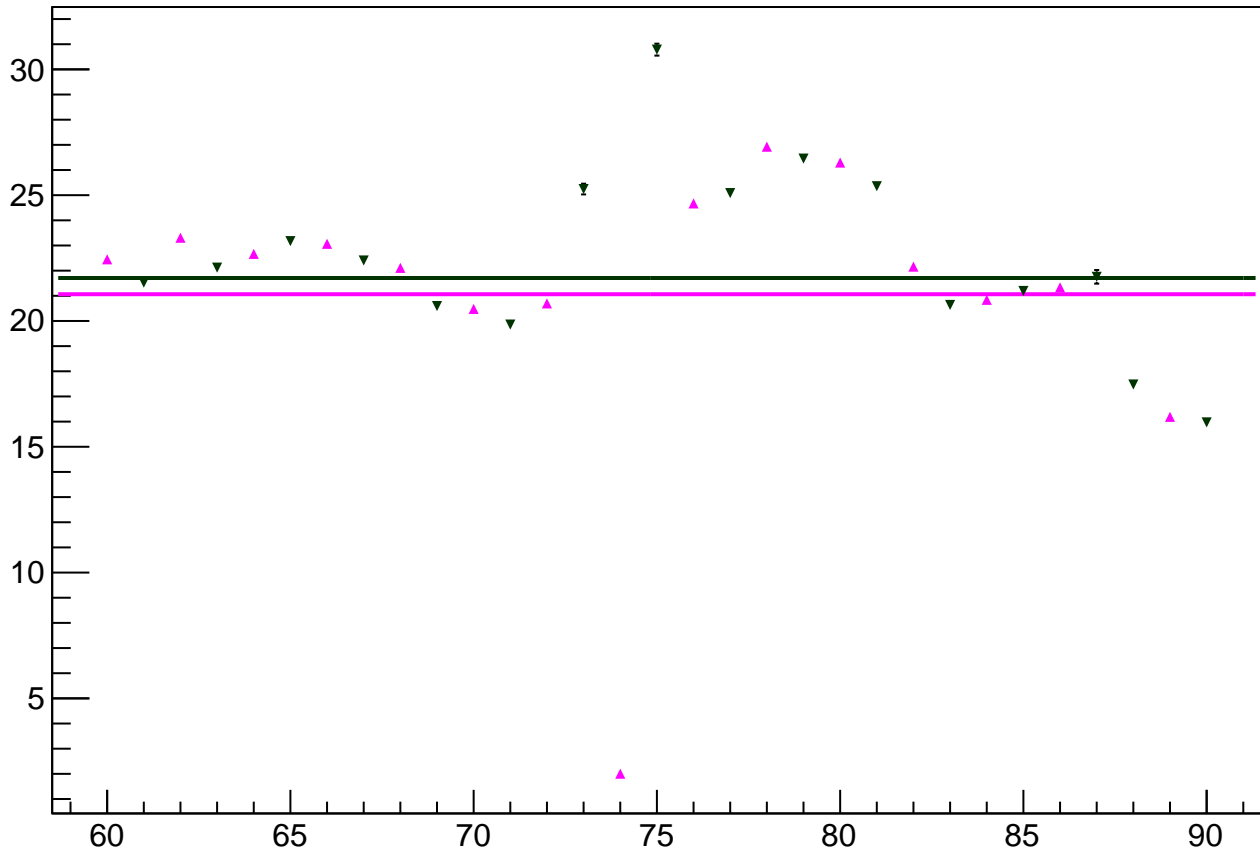
5.250+/-0.199  $\chi^2/\text{NDF}$ : 938.6/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

5.336+/-0.192  $\chi^2/\text{NDF}$ : 831.2/14

Left In: 5.336+/-0.192  $\chi^2/\text{NDF}$ : 831.2/14

# reg\_asym\_right\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 21.708+/-0.029  $\chi^2/\text{NDF}$ : 8827.0/15

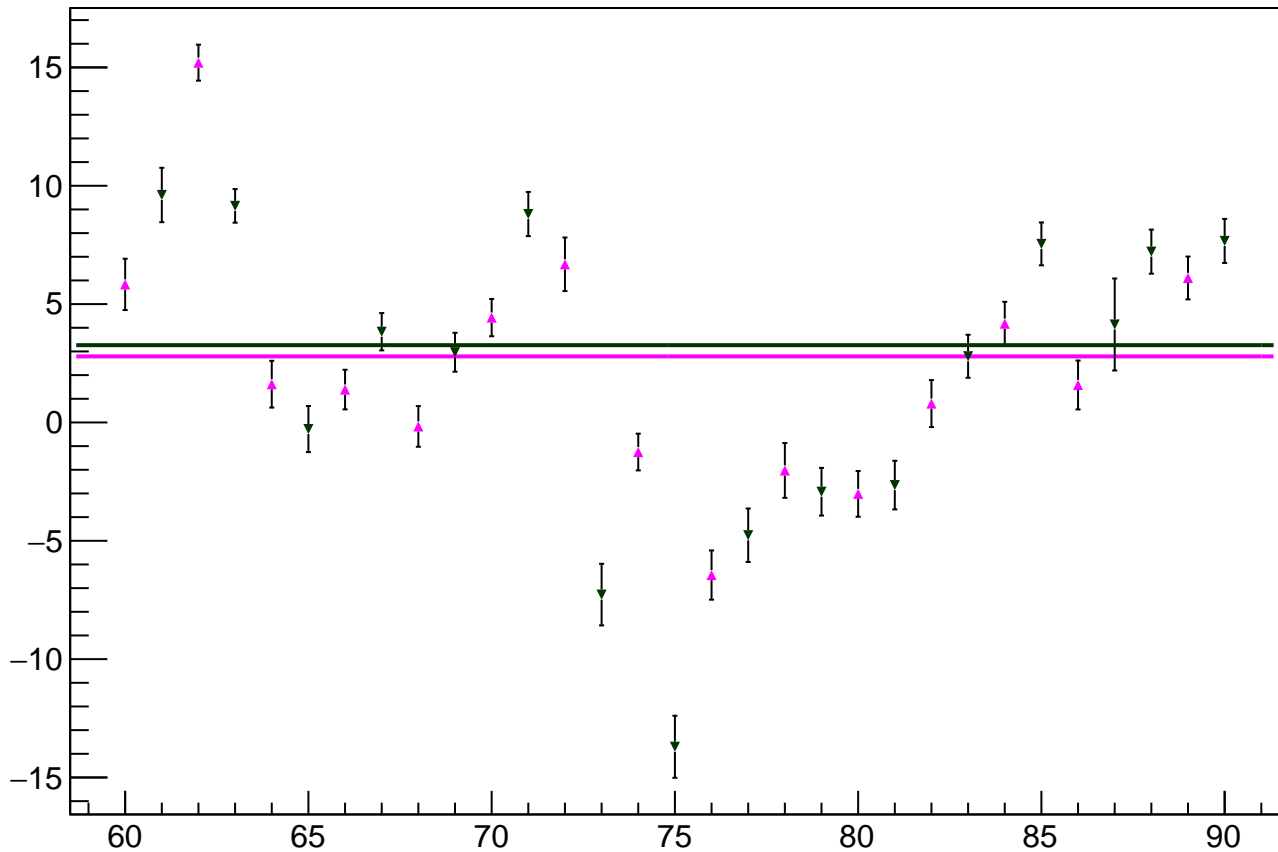
21.708+/-0.029  $\chi^2/\text{NDF}$ : 8827.0/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 21.063+/-0.028  $\chi^2/\text{NDF}$ : 31267.3/14

21.063+/-0.028  $\chi^2/\text{NDF}$ : 31267.3/14

# reg\_asym\_right\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.265+/-0.243  $\chi^2$ /NDF:566.0/15

3.265+/-0.243  $\chi^2$ /NDF: 566.0/15

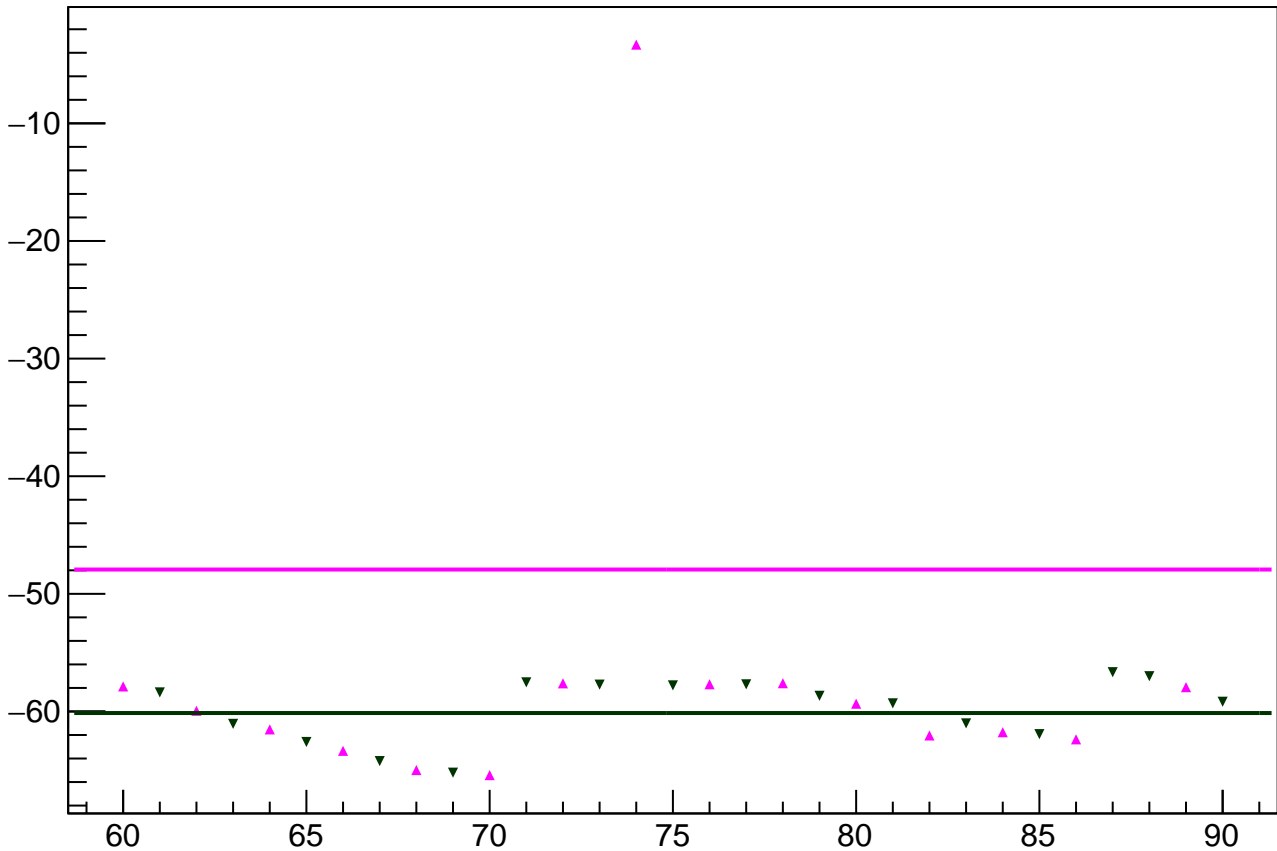
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2.791+/-0.239  $\chi^2$ /NDF: 487.3/14

Left In: 2.791+/-0.239  $\chi^2$ /NDF:487.3/14



# reg\_asym\_right\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-60.132+/-0.042  $\chi^2/\text{NDF}$ : 3832.3/15

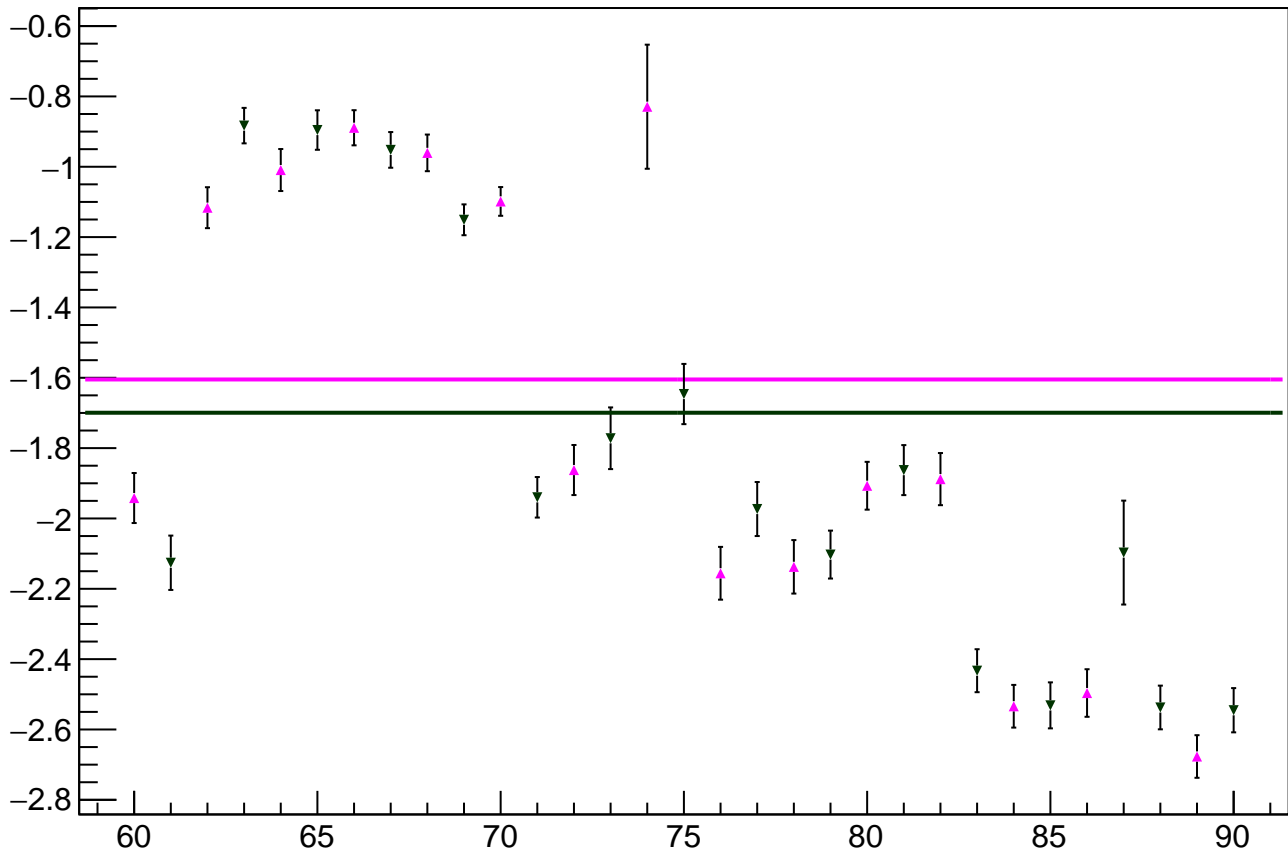
Left Out: -60.132+/-0.042  $\chi^2/\text{NDF}$ : 3832.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

-47.932+/-0.039  $\chi^2/\text{NDF}$ : 392757.9/14

Left In: -47.932+/-0.039  $\chi^2/\text{NDF}$ : 392757.9/14

# reg\_asym\_right\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -1.699+/-0.016  $\chi^2$ /NDF: 1618.4/15

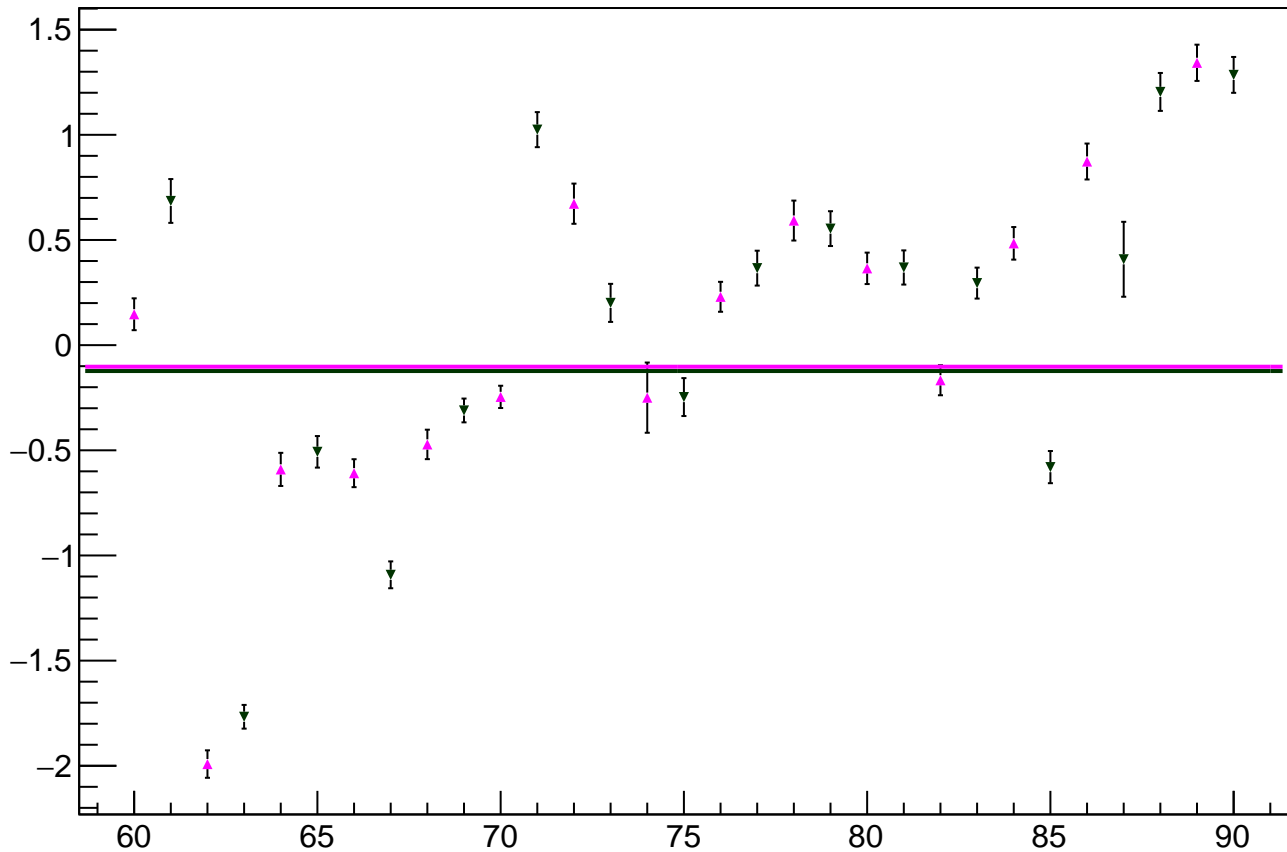
-1.699+/-0.016  $\chi^2$ /NDF: 1618.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-1.605+/-0.016  $\chi^2$ /NDF: 1594.9/14

Left In: -1.605+/-0.016  $\chi^2$ /NDF: 1594.9/14

# reg\_asym\_right\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.123+/-0.020  $\chi^2$ /NDF:2085.6/15

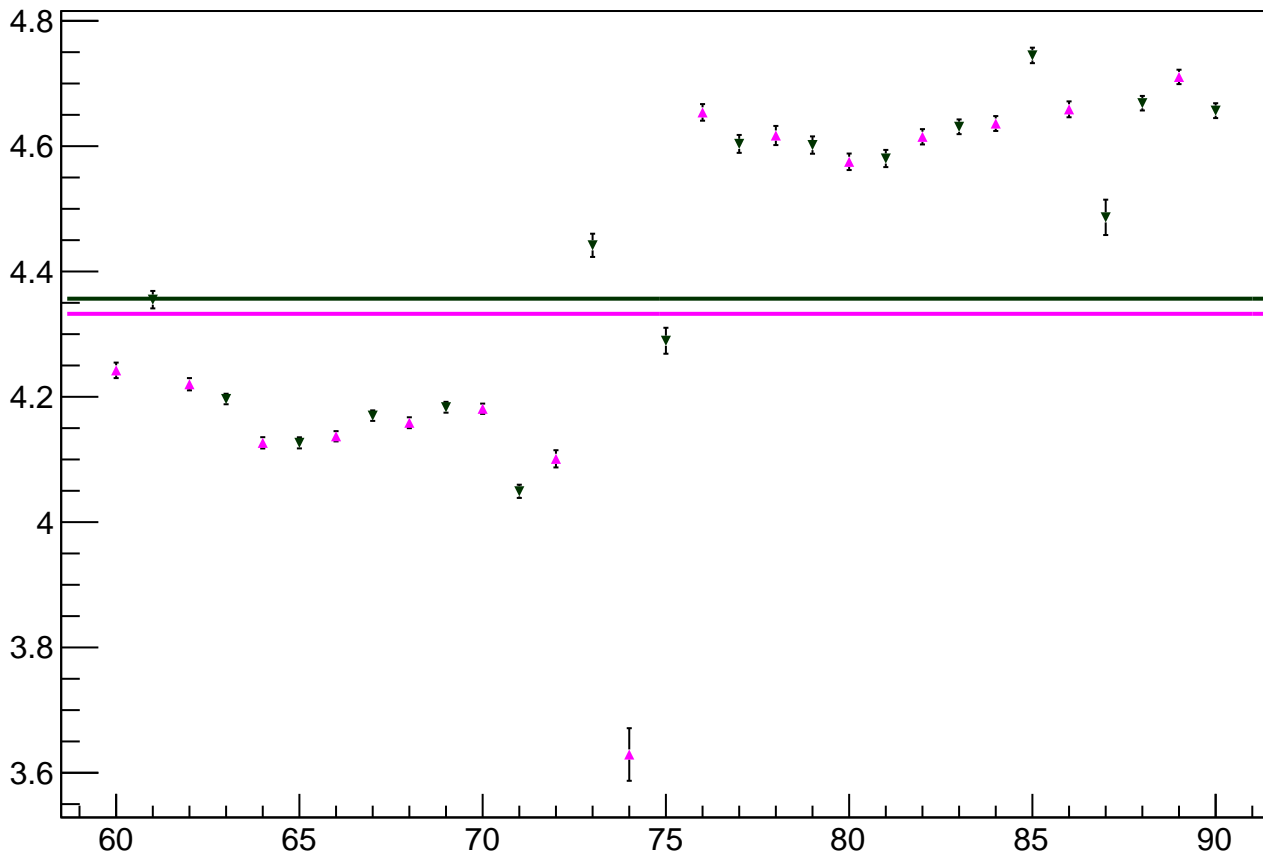
-0.123+/-0.020  $\chi^2$ /NDF: 2085.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.103+/-0.020  $\chi^2$ /NDF: 1630.5/14

Left In: -0.103+/-0.020  $\chi^2$ /NDF:1630.5/14

# reg\_asym\_right\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 4.357+/-0.003  $\chi^2$ /NDF:6602.7/15

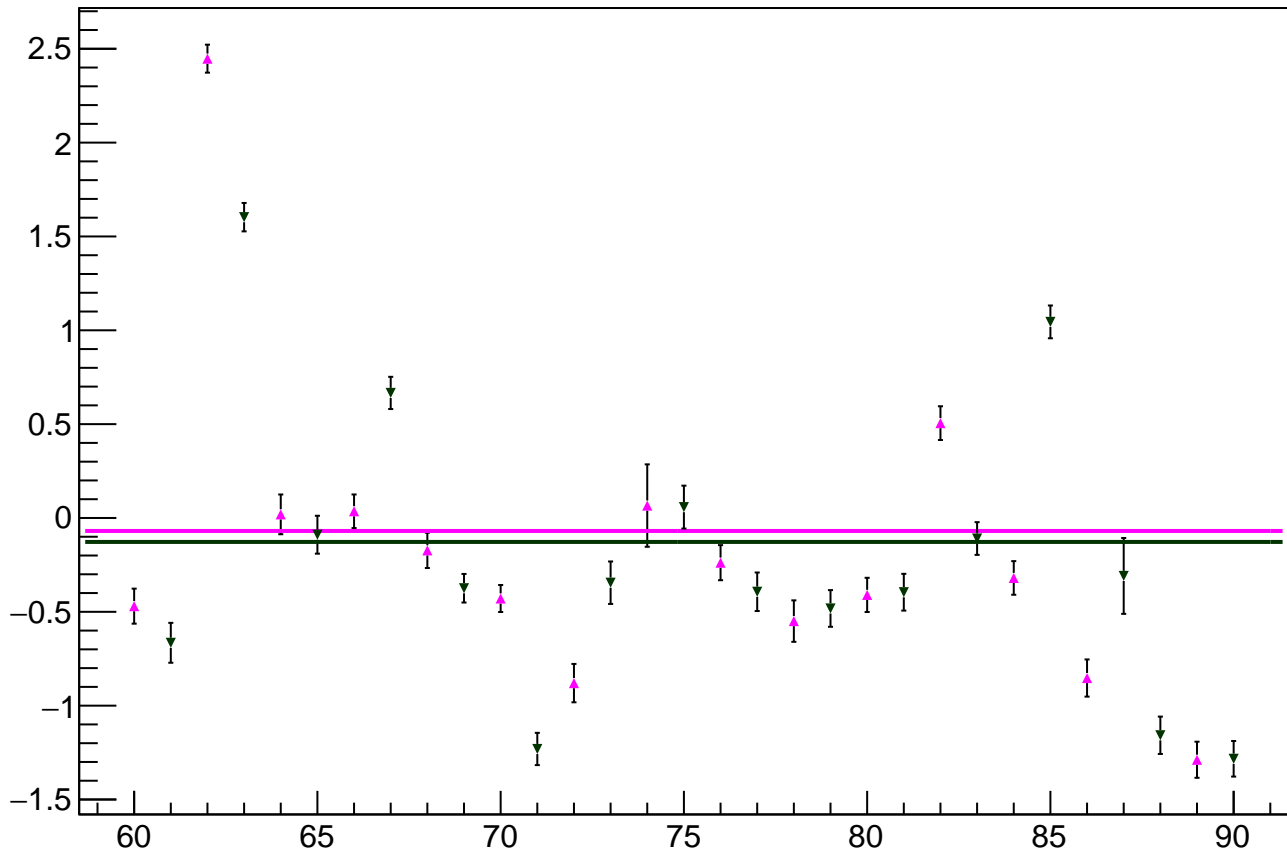
4.357+/-0.003  $\chi^2$ /NDF: 6602.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 4.332+/-0.003  $\chi^2$ /NDF:6785.4/14

4.332+/-0.003  $\chi^2$ /NDF: 6785.4/14

# reg\_asym\_right\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.128+/-0.024  $\chi^2$ /NDF: 1279.2/15

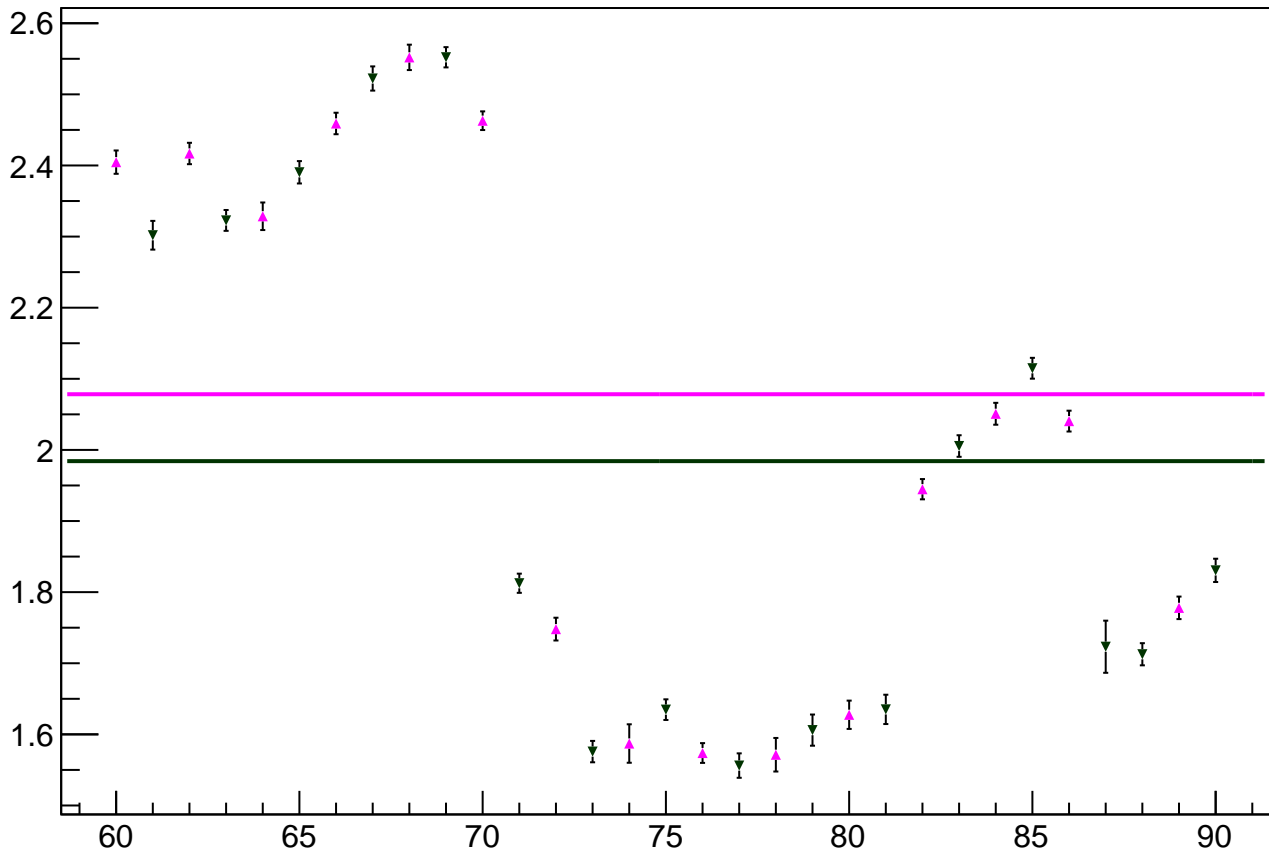
Left Out: -0.128+/-0.024  $\chi^2$ /NDF: 1279.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.069+/-0.024  $\chi^2$ /NDF: 1557.1/14

Left In: -0.069+/-0.024  $\chi^2$ /NDF: 1557.1/14

# reg\_asym\_right\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.984+/-0.004  $\chi^2$ /NDF:7244.3/15

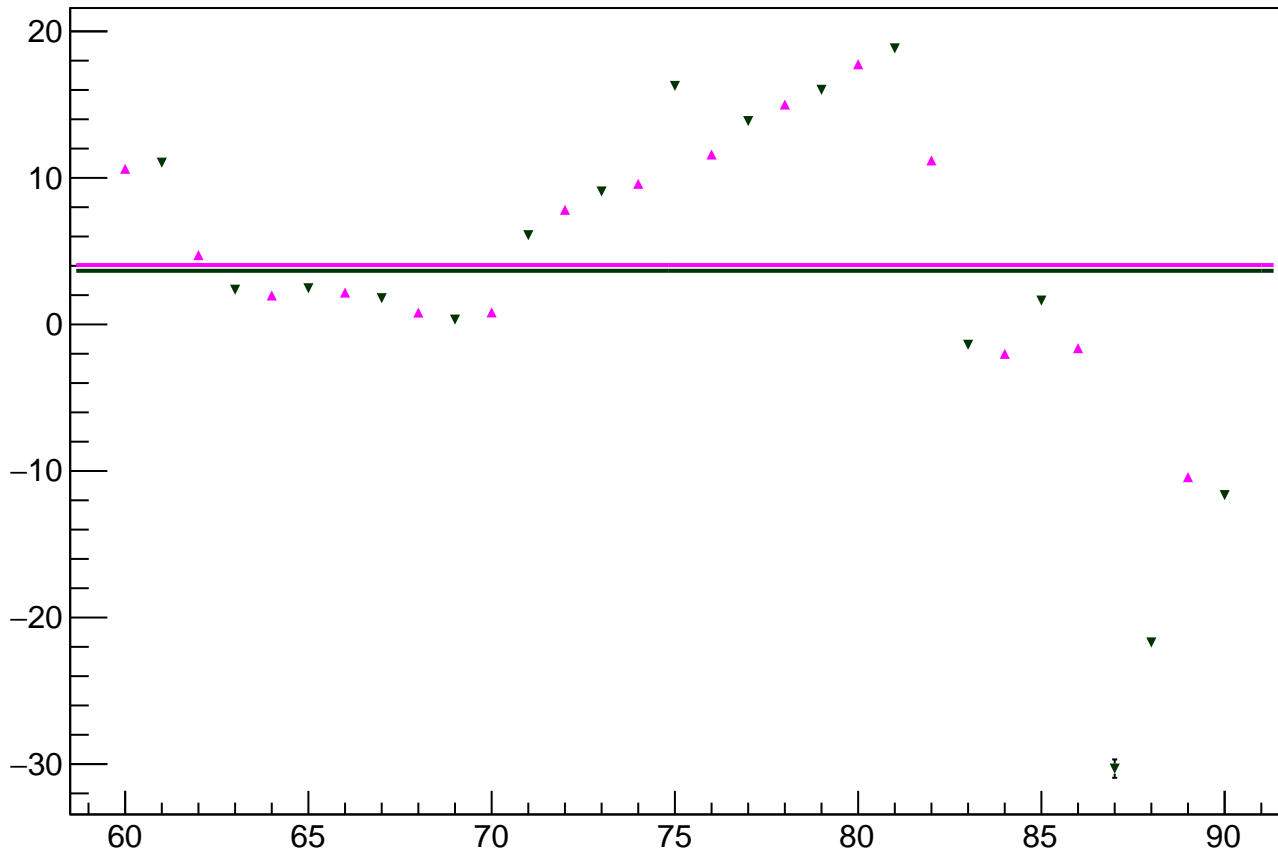
1.984+/-0.004  $\chi^2$ /NDF: 7244.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.078+/-0.004  $\chi^2$ /NDF:6772.1/14

2.078+/-0.004  $\chi^2$ /NDF: 6772.1/14

# reg\_asym\_sam\_15\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.660+/-0.049  $\chi^2/\text{NDF}$ :29946.8/15

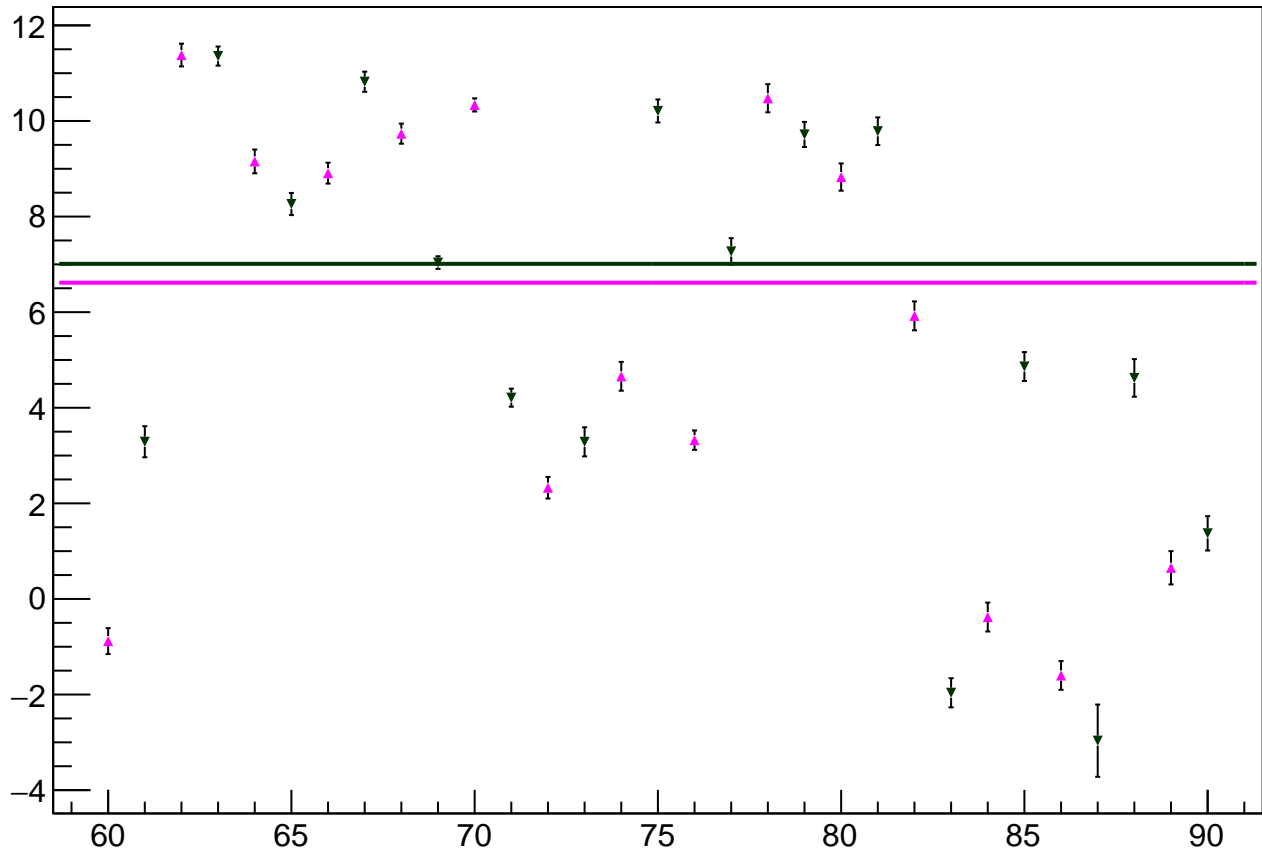
3.660+/-0.049  $\chi^2/\text{NDF}$ : 29946.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

4.054+/-0.050  $\chi^2/\text{NDF}$ : 14816.3/14

Left In: 4.054+/-0.050  $\chi^2/\text{NDF}$ :14816.3/14

# reg\_asym\_sam\_15\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 7.011+/-0.061  $\chi^2$ /NDF:3075.9/15

7.011+/-0.061  $\chi^2$ /NDF: 3075.9/15

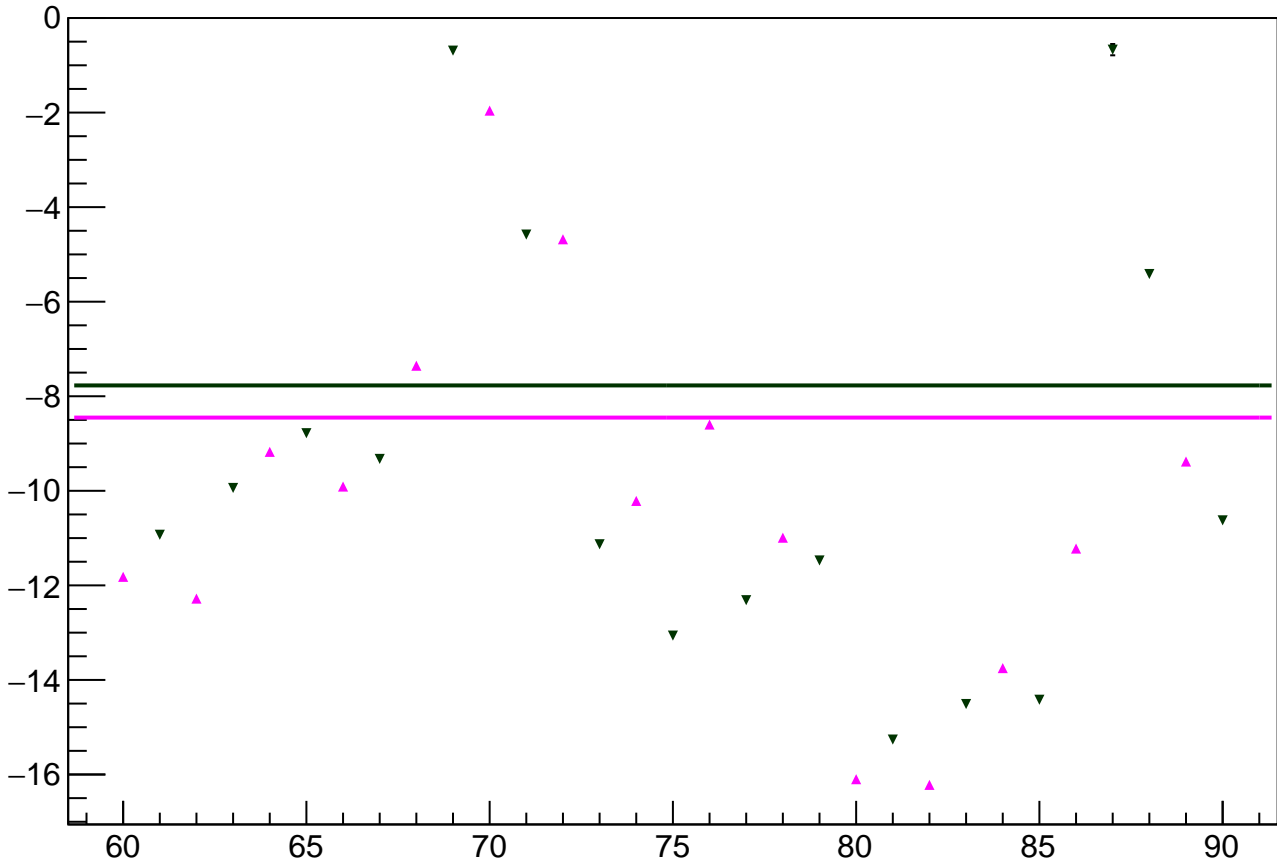
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 6.617+/-0.062  $\chi^2$ /NDF:4803.9/14

6.617+/-0.062  $\chi^2$ /NDF: 4803.9/14



# reg\_asym\_sam\_15\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -7.771+/-0.009  $\chi^2$ /NDF:253679.9/15

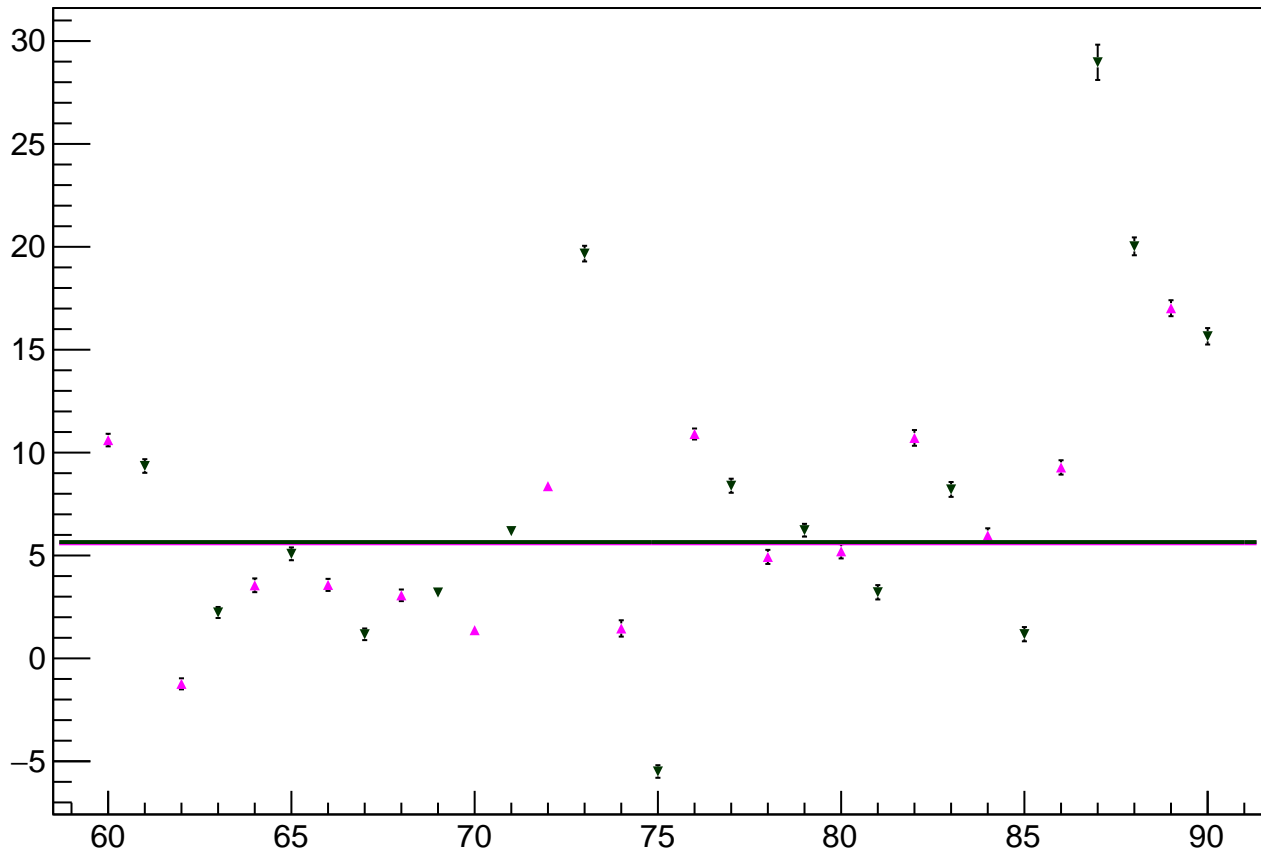
-7.771+/-0.009  $\chi^2$ /NDF: 253679.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-8.451+/-0.009  $\chi^2$ /NDF: 198063.5/14

Left In: -8.451+/-0.009  $\chi^2$ /NDF:198063.5/14

# reg\_asym\_sam\_15\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 5.652+/-0.075  $\chi^2/\text{NDF}$ : 6213.7/15

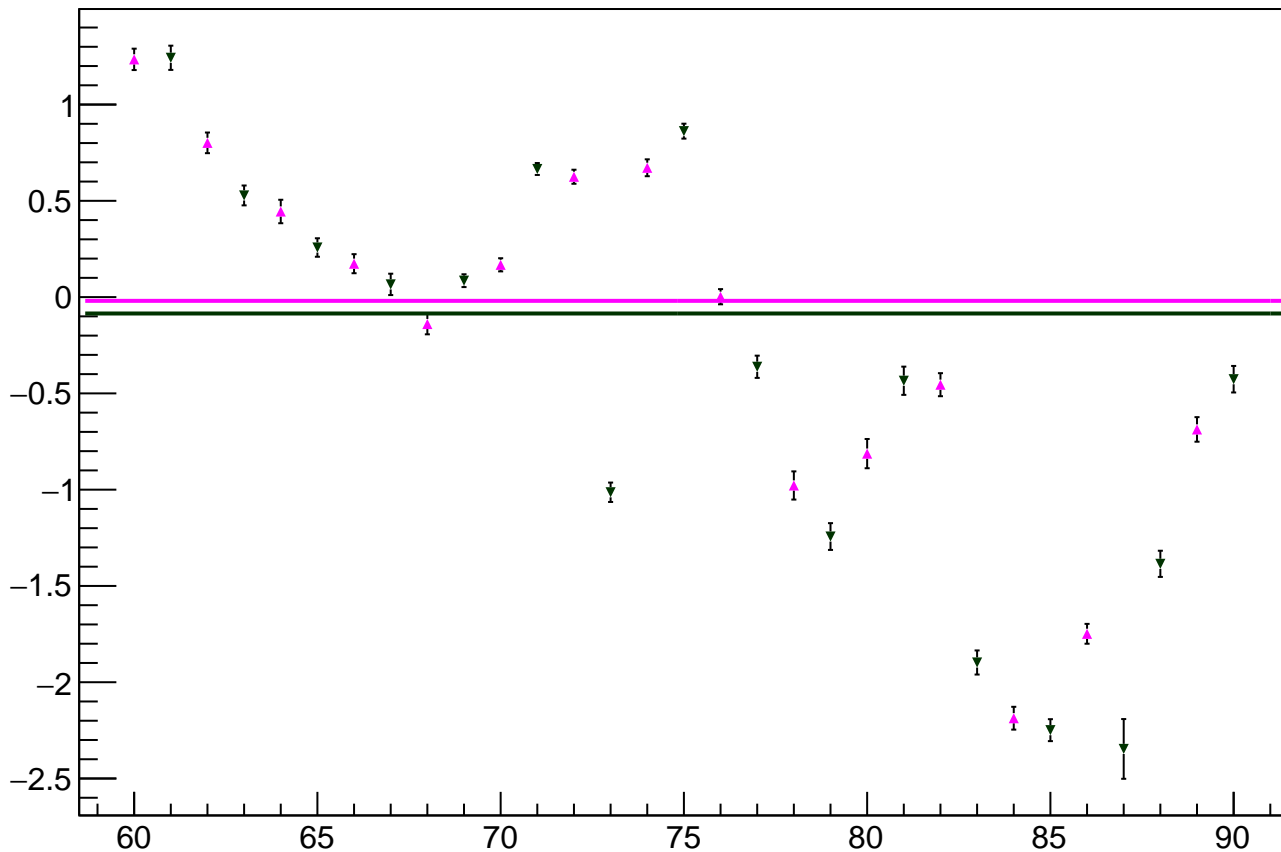
5.652+/-0.075  $\chi^2/\text{NDF}$ : 6213.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.593+/-0.076  $\chi^2/\text{NDF}$ : 3398.3/14

5.593+/-0.076  $\chi^2/\text{NDF}$ : 3398.3/14

# reg\_asym\_sam\_15\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.085+/-0.013  $\chi^2$ /NDF:5400.9/15

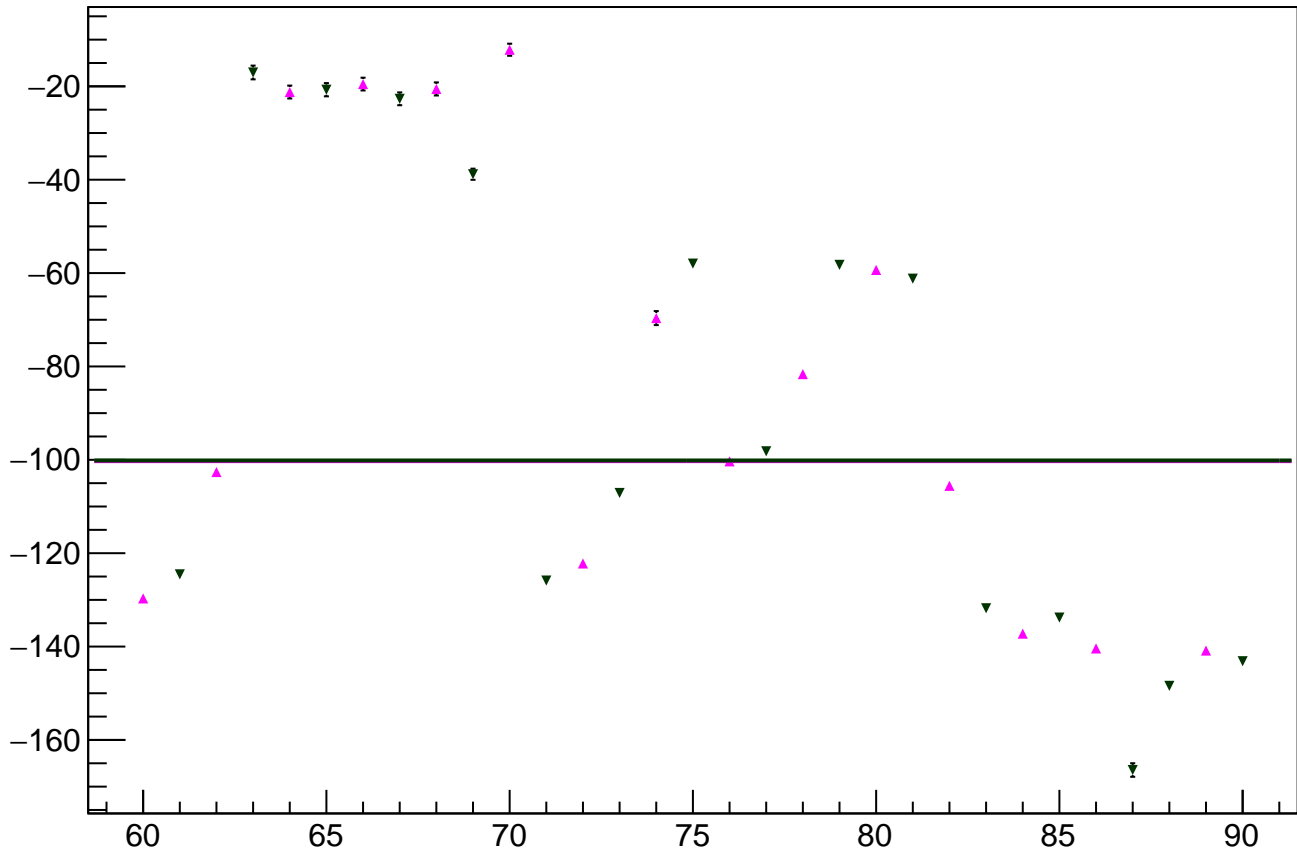
-0.085+/-0.013  $\chi^2$ /NDF: 5400.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.019+/-0.013  $\chi^2$ /NDF:4321.8/14

-0.019+/-0.013  $\chi^2$ /NDF: 4321.8/14

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -100.142+/-0.181  $\chi^2$ /NDF:47100.7/15

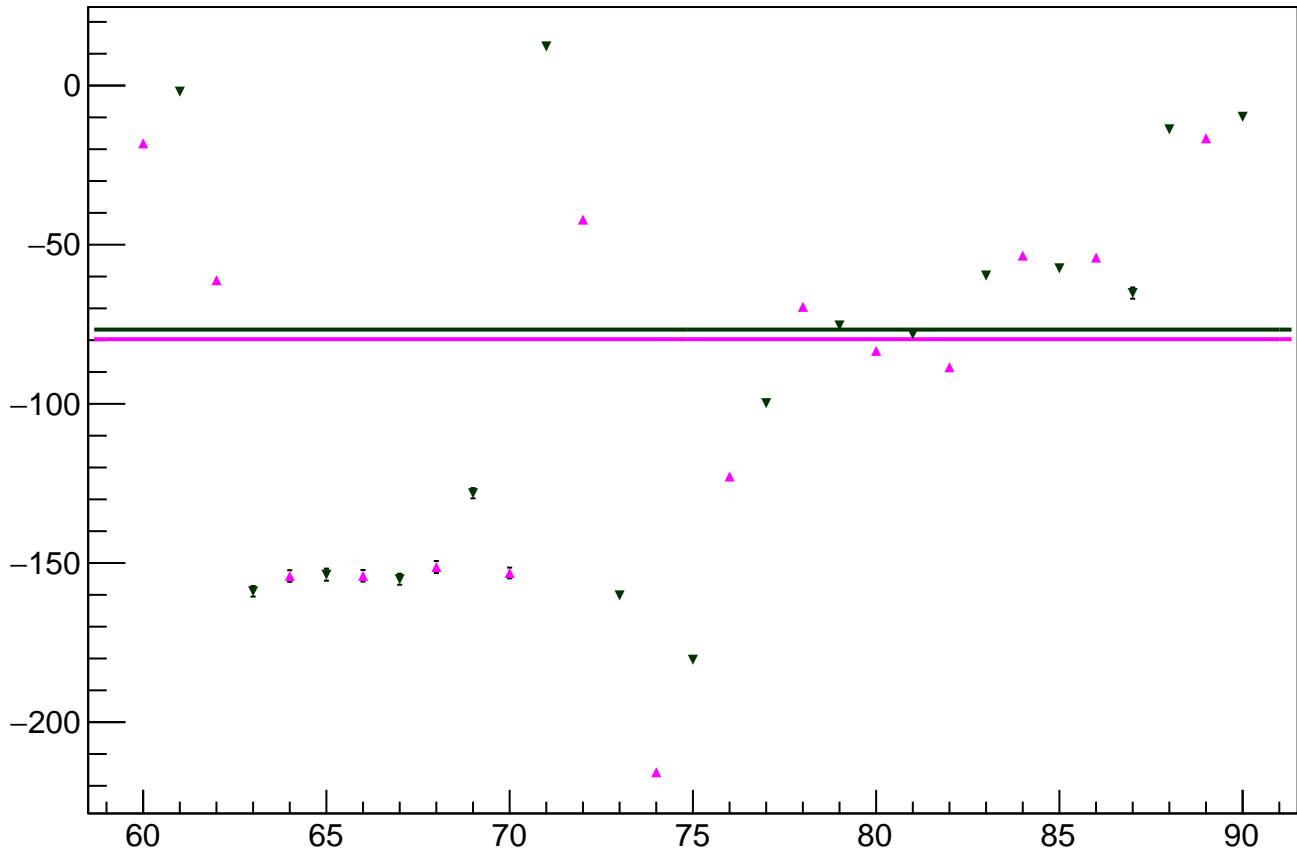
-100.142+/-0.181  $\chi^2$ /NDF: 47100.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -100.285+/-0.187  $\chi^2$ /NDF:37853.0/14

-100.285+/-0.187  $\chi^2$ /NDF: 37853.0/14

# reg\_asym\_sam\_15\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -76.669+/-0.220  $\chi^2$ /NDF:61513.4/15

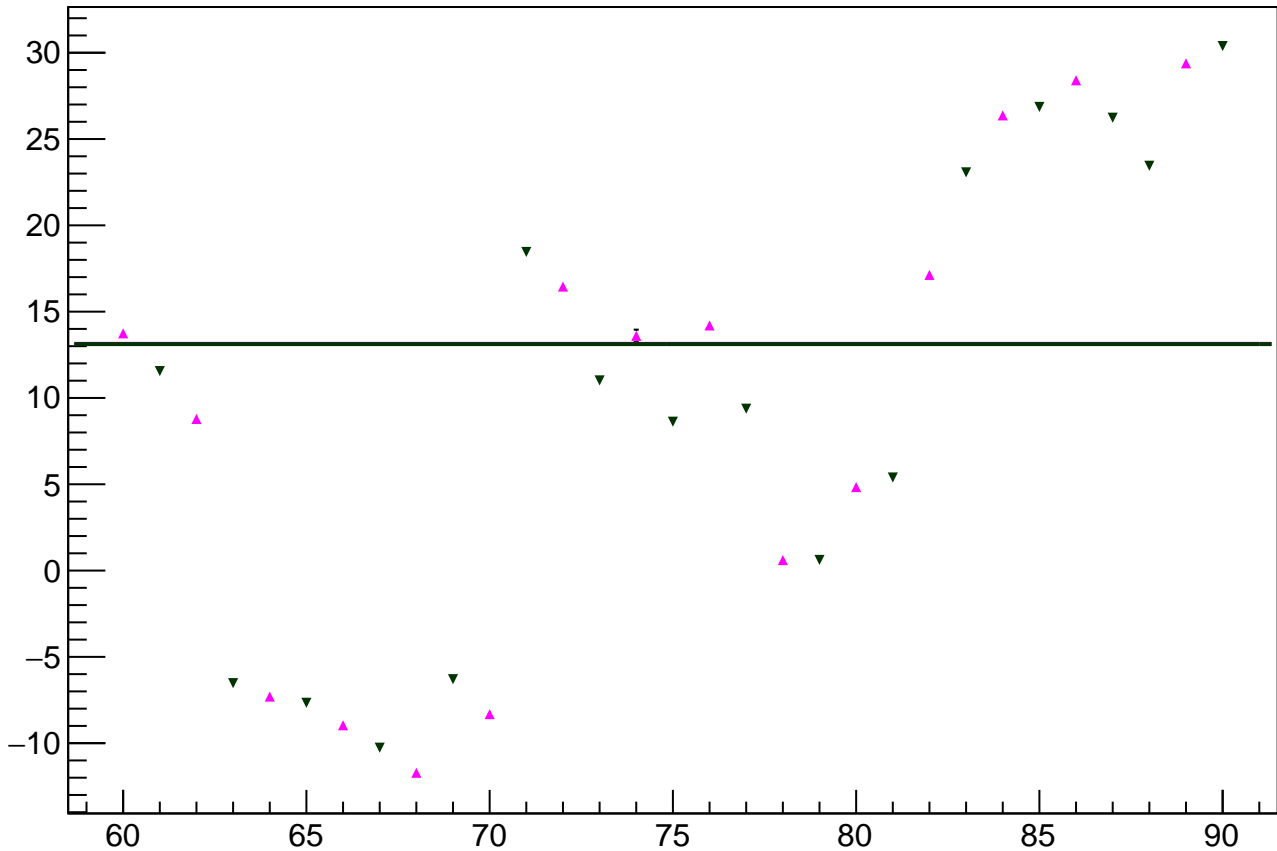
-76.669+/-0.220  $\chi^2$ /NDF: 61513.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -79.692+/-0.216  $\chi^2$ /NDF:34945.2/14

-79.692+/-0.216  $\chi^2$ /NDF: 34945.2/14

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 13.120+/-0.035  $\chi^2$ /NDF:102984.5/15

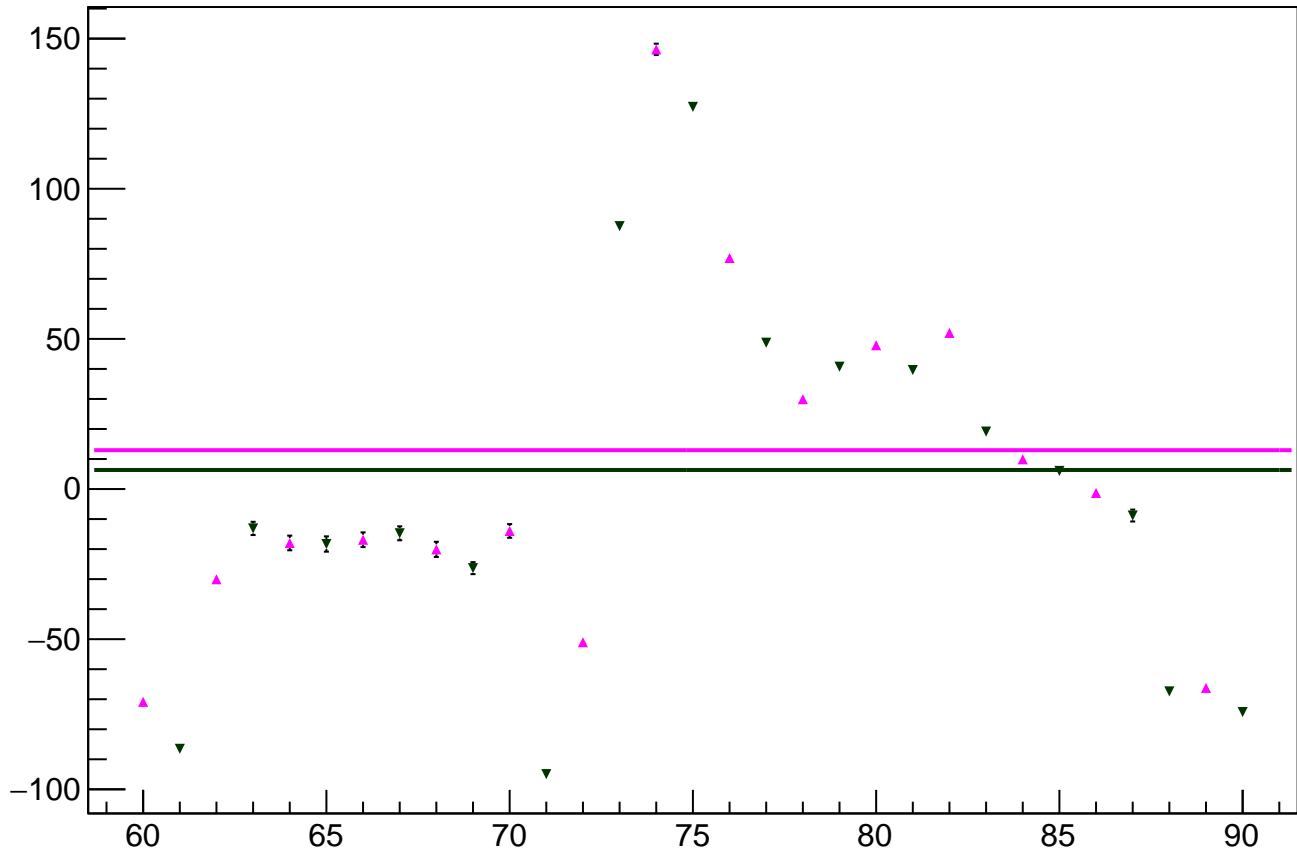
13.120+/-0.035  $\chi^2$ /NDF: 102984.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 13.134+/-0.035  $\chi^2$ /NDF:104037.2/14

13.134+/-0.035  $\chi^2$ /NDF: 104037.2/14

# reg\_asym\_sam\_15\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.348+/-0.257  $\chi^2/\text{NDF}$ : 60951.8/15

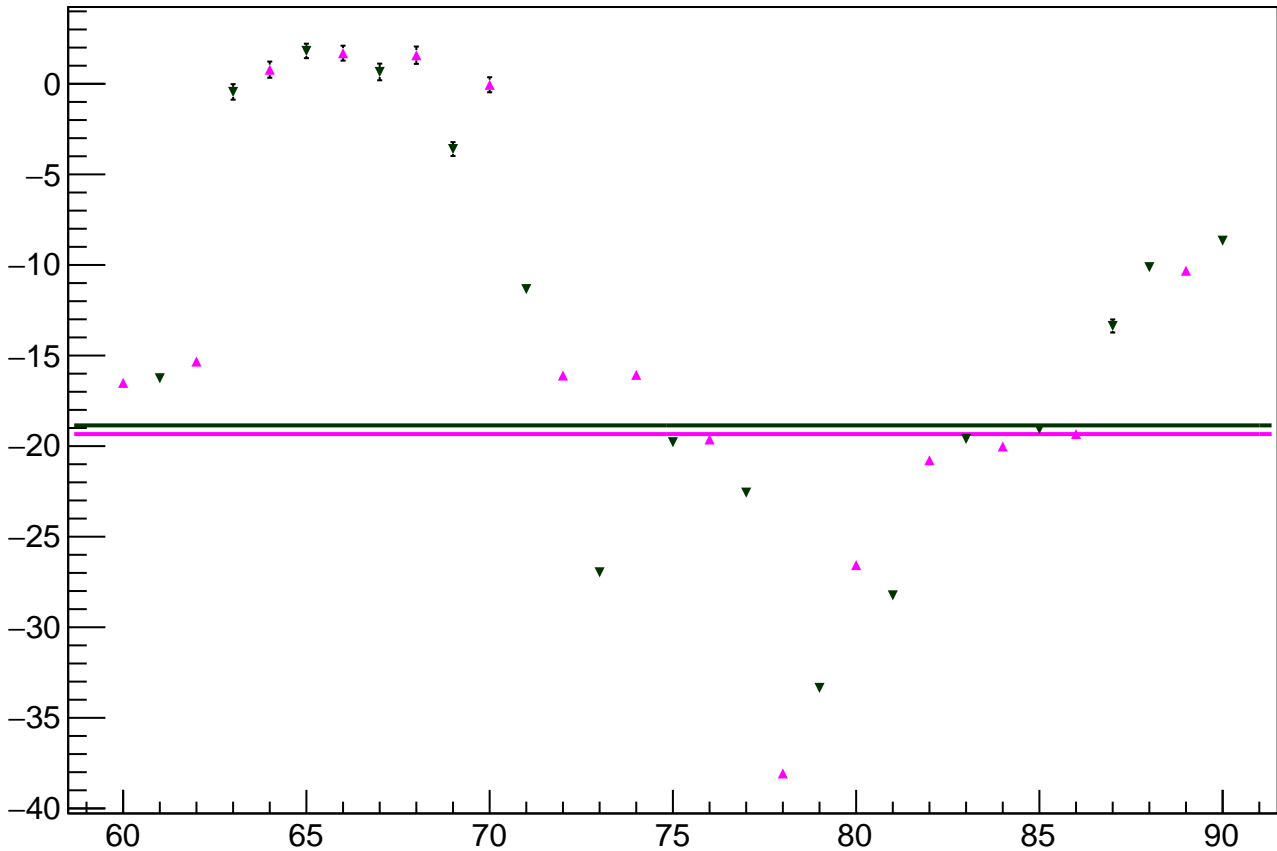
6.348+/-0.257  $\chi^2/\text{NDF}$ : 60951.8/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

12.935+/-0.255  $\chi^2/\text{NDF}$ : 39579.0/14

Left In: 12.935+/-0.255  $\chi^2/\text{NDF}$ : 39579.0/14

# reg\_asym\_sam\_15\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -18.856+/-0.044  $\chi^2/\text{NDF}$ : 31222.0/15

-18.856+/-0.044  $\chi^2/\text{NDF}$ : 31222.0/15

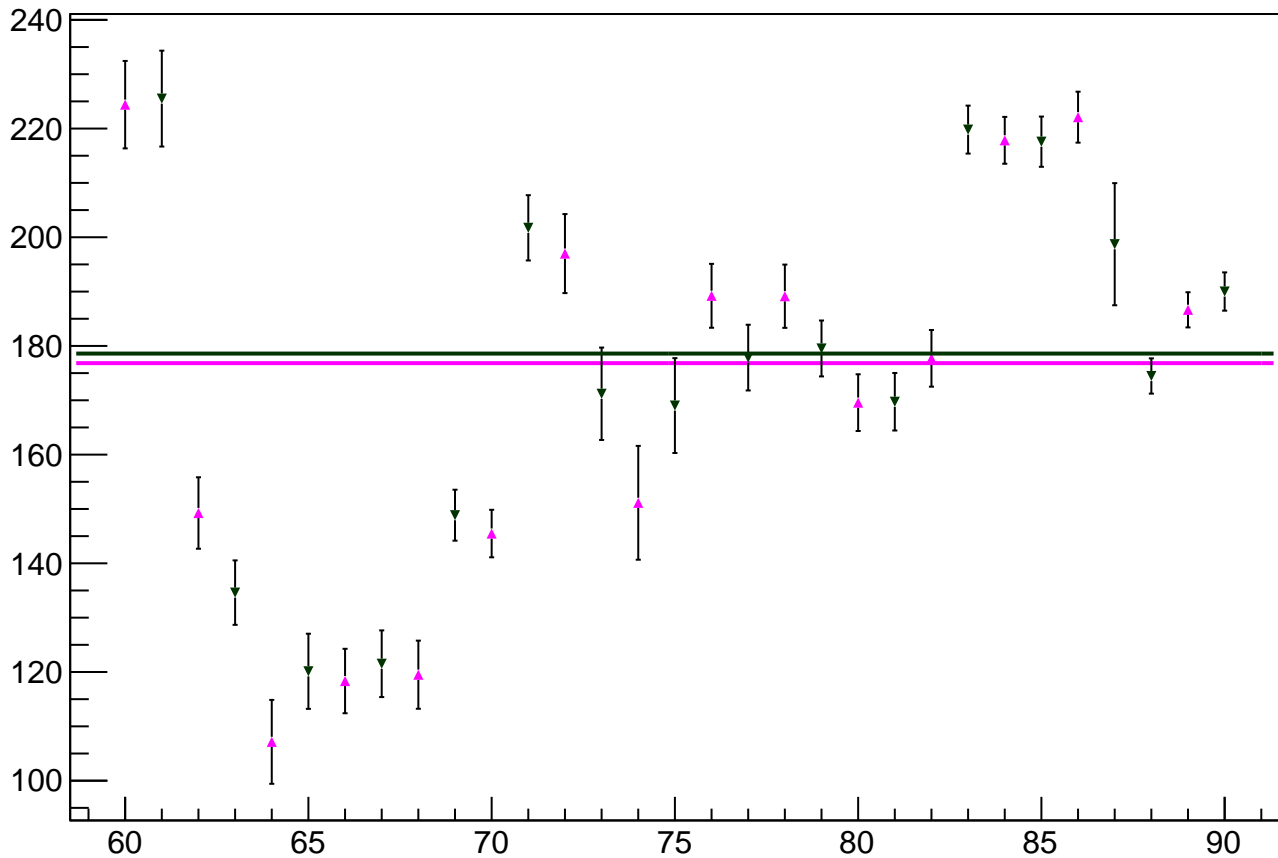
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -19.337+/-0.045  $\chi^2/\text{NDF}$ : 25335.5/14

-19.337+/-0.045  $\chi^2/\text{NDF}$ : 25335.5/14



# reg\_asym\_sam\_37\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

178.596+/-1.323  $\chi^2$ /NDF: 475.0/15

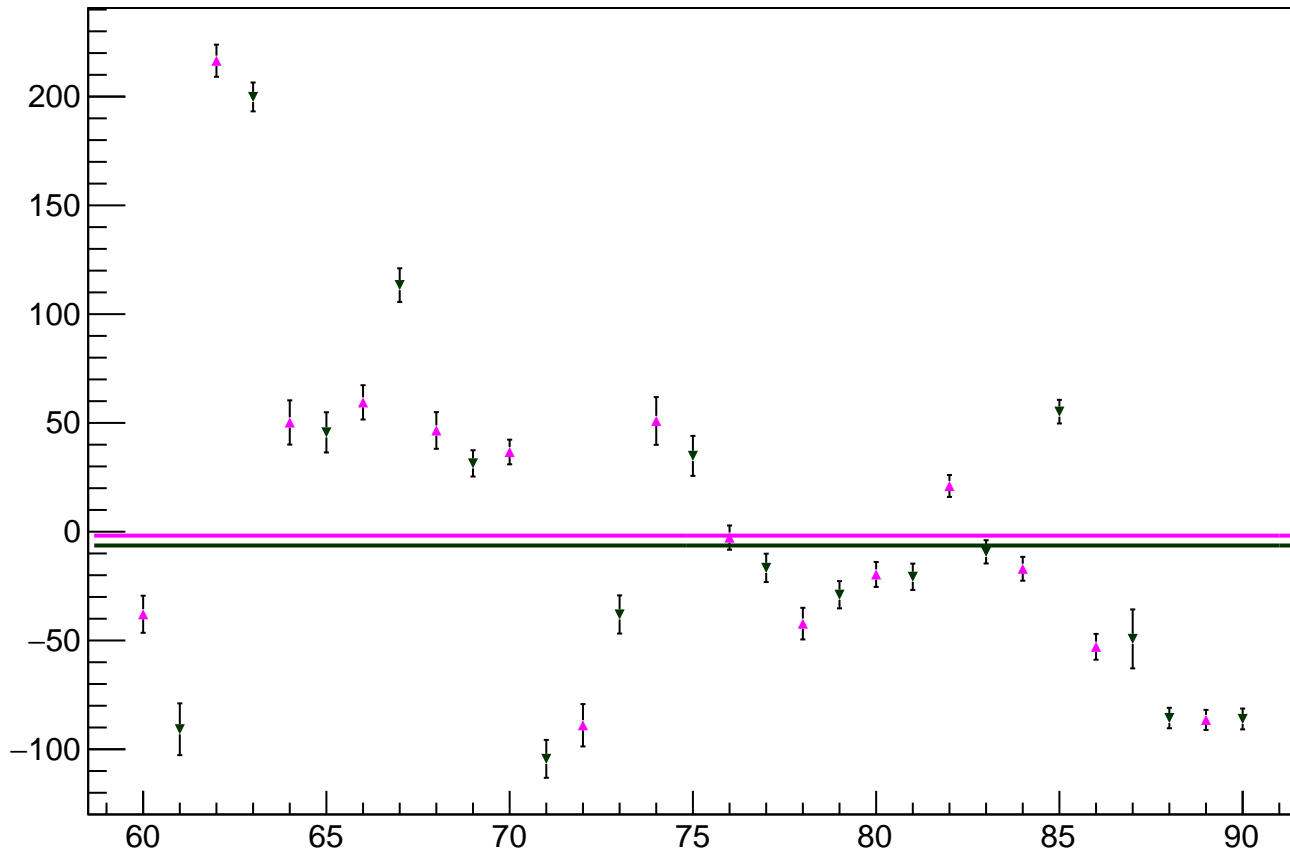
Left Out: 178.596+/-1.323  $\chi^2$ /NDF: 475.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

176.836+/-1.392  $\chi^2$ /NDF: 583.9/14

Left In: 176.836+/-1.392  $\chi^2$ /NDF: 583.9/14

# reg\_asym\_sam\_37\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -6.346+/-1.659  $\chi^2$ /NDF:2207.8/15

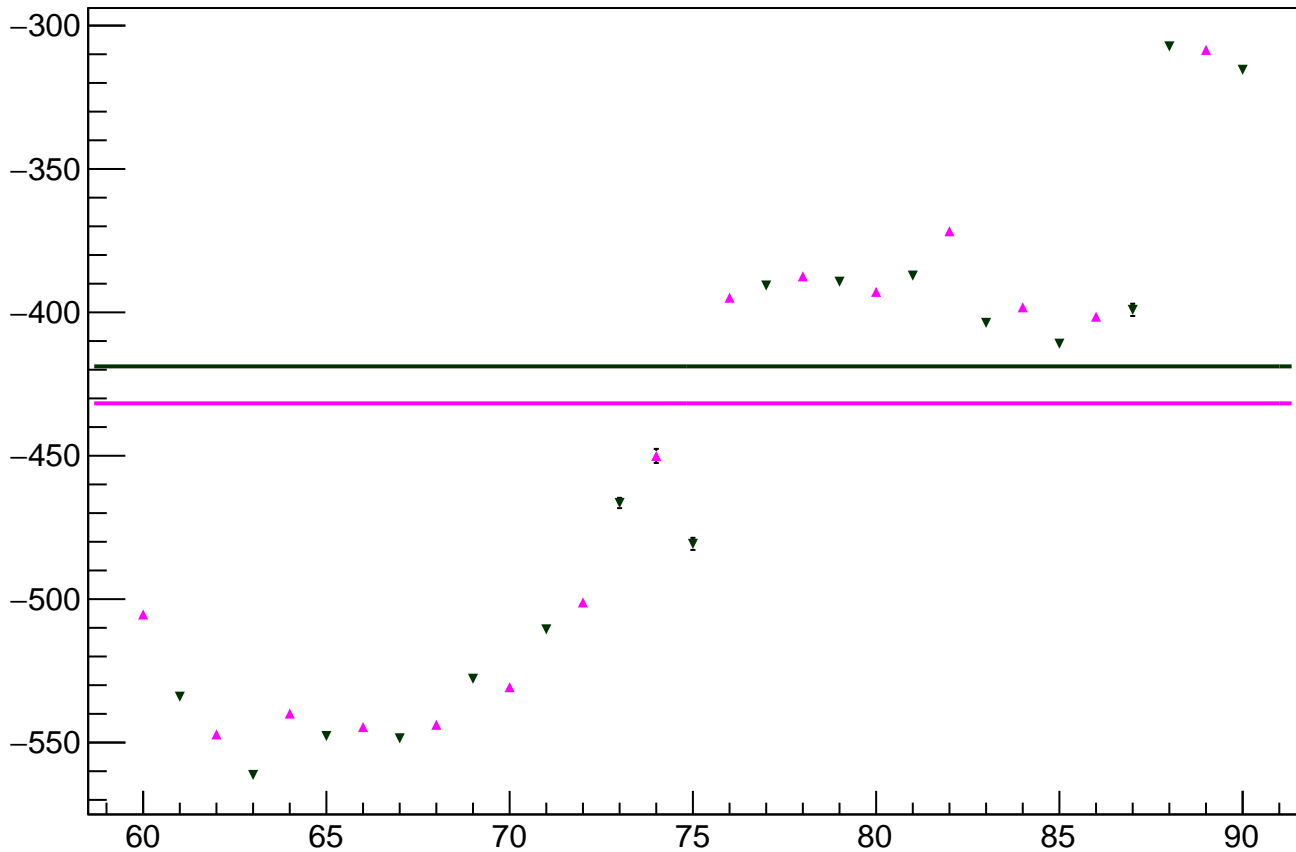
-6.346+/-1.659  $\chi^2$ /NDF: 2207.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.802+/-1.686  $\chi^2$ /NDF:1642.4/14

-1.802+/-1.686  $\chi^2$ /NDF: 1642.4/14

# reg\_asym\_sam\_37\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -418.838+/-0.248  $\chi^2$ /NDF:139364.7/15

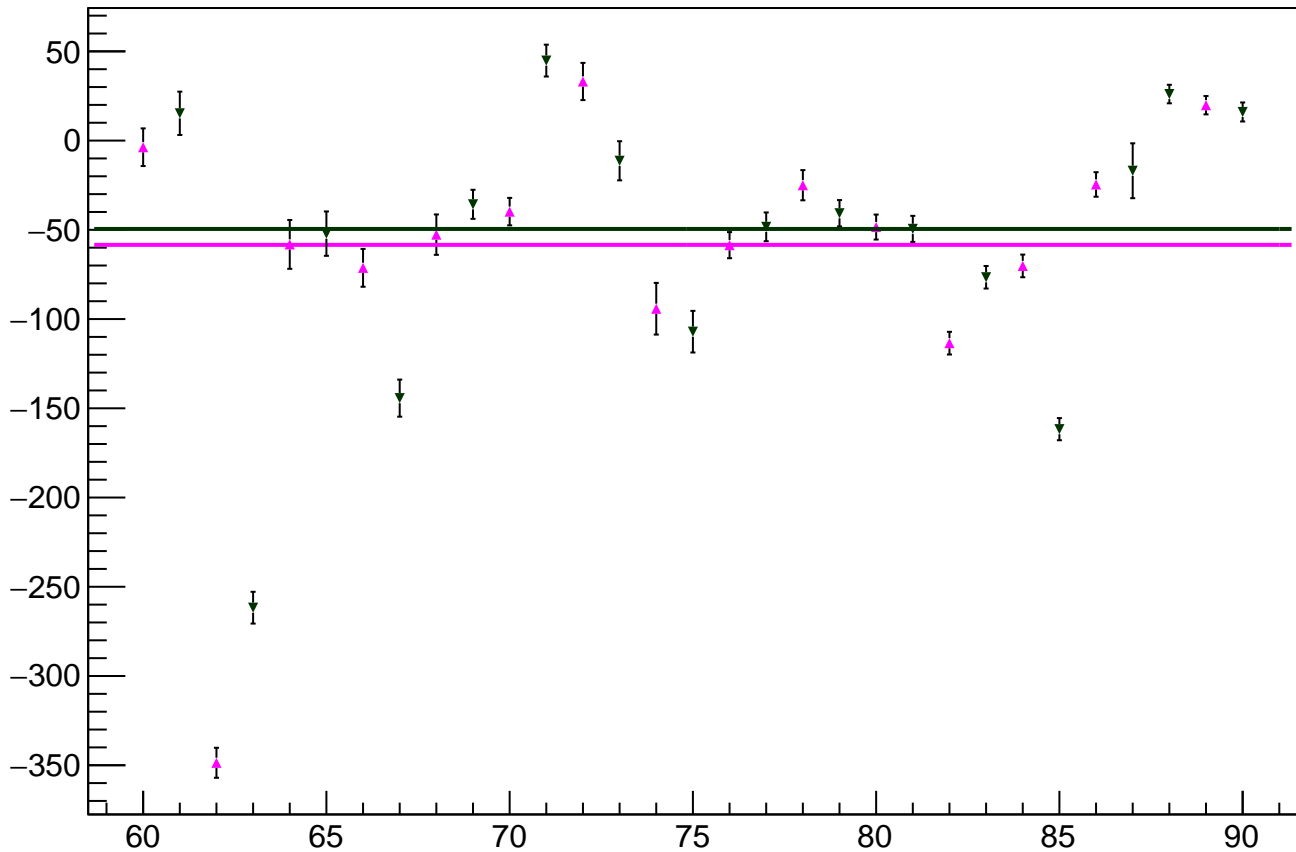
-418.838+/-0.248  $\chi^2$ /NDF: 139364.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -431.730+/-0.255  $\chi^2$ /NDF:114503.9/14

-431.730+/-0.255  $\chi^2$ /NDF: 114503.9/14

# reg\_asym\_sam\_37\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -49.511+/-1.967  $\chi^2$ /NDF:1544.7/15

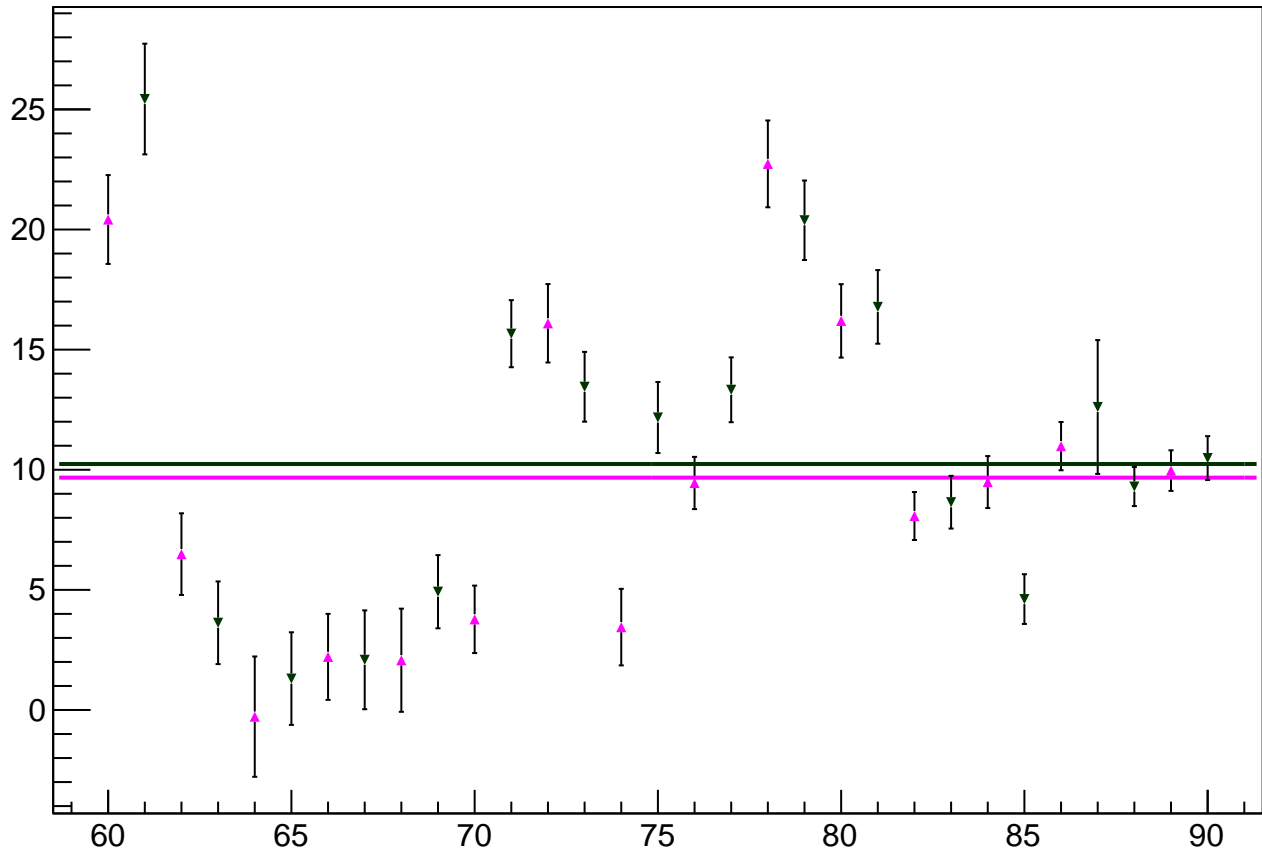
-49.511+/-1.967  $\chi^2$ /NDF: 1544.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -58.430+/-2.051  $\chi^2$ /NDF:1660.7/14

-58.430+/-2.051  $\chi^2$ /NDF: 1660.7/14

# reg\_asym\_sam\_37\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 10.240+/-0.336  $\chi^2/\text{NDF}$ : 224.1/15

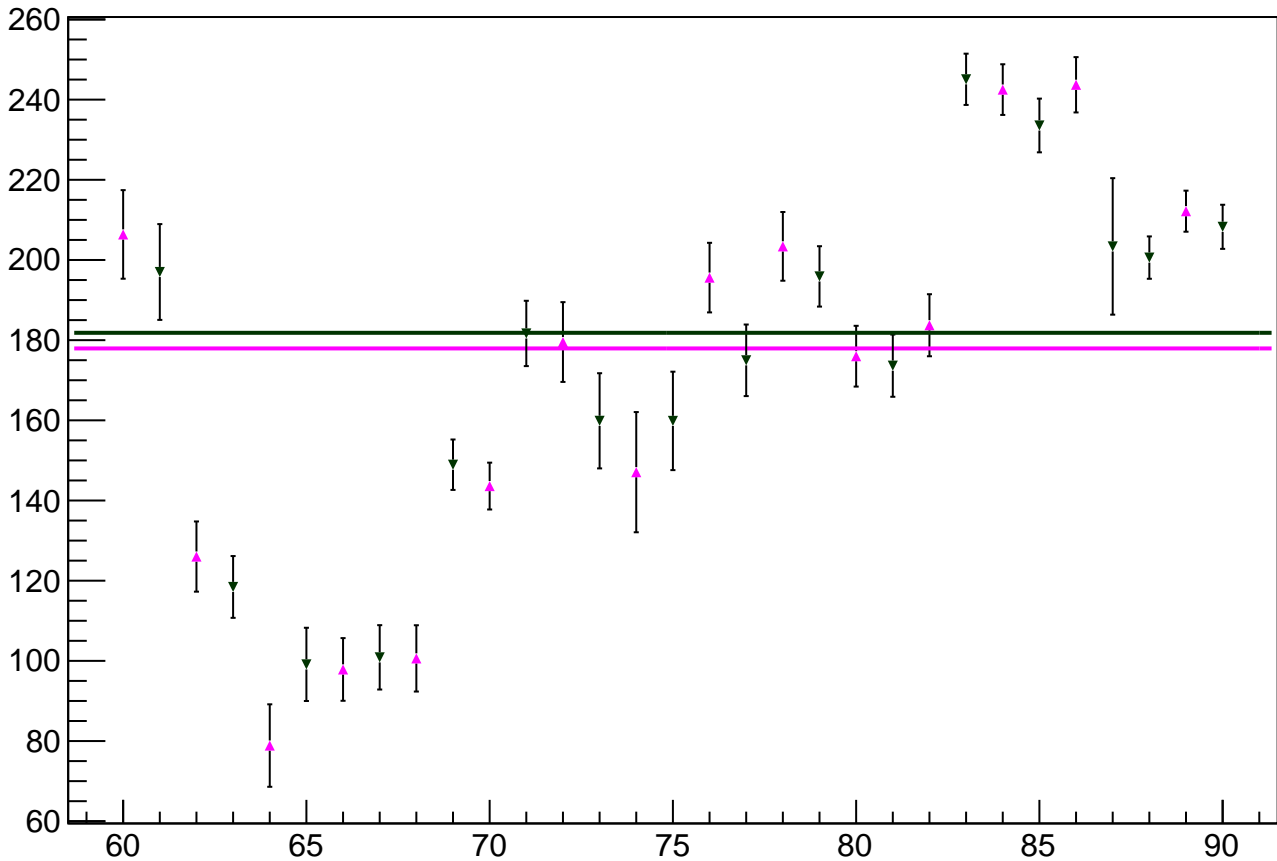
10.240+/-0.336  $\chi^2/\text{NDF}$ : 224.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

9.672+/-0.344  $\chi^2/\text{NDF}$ : 206.3/14

Left In: 9.672+/-0.344  $\chi^2/\text{NDF}$ : 206.3/14

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

181.835+/-1.920  $\chi^2$ /NDF: 486.8/15

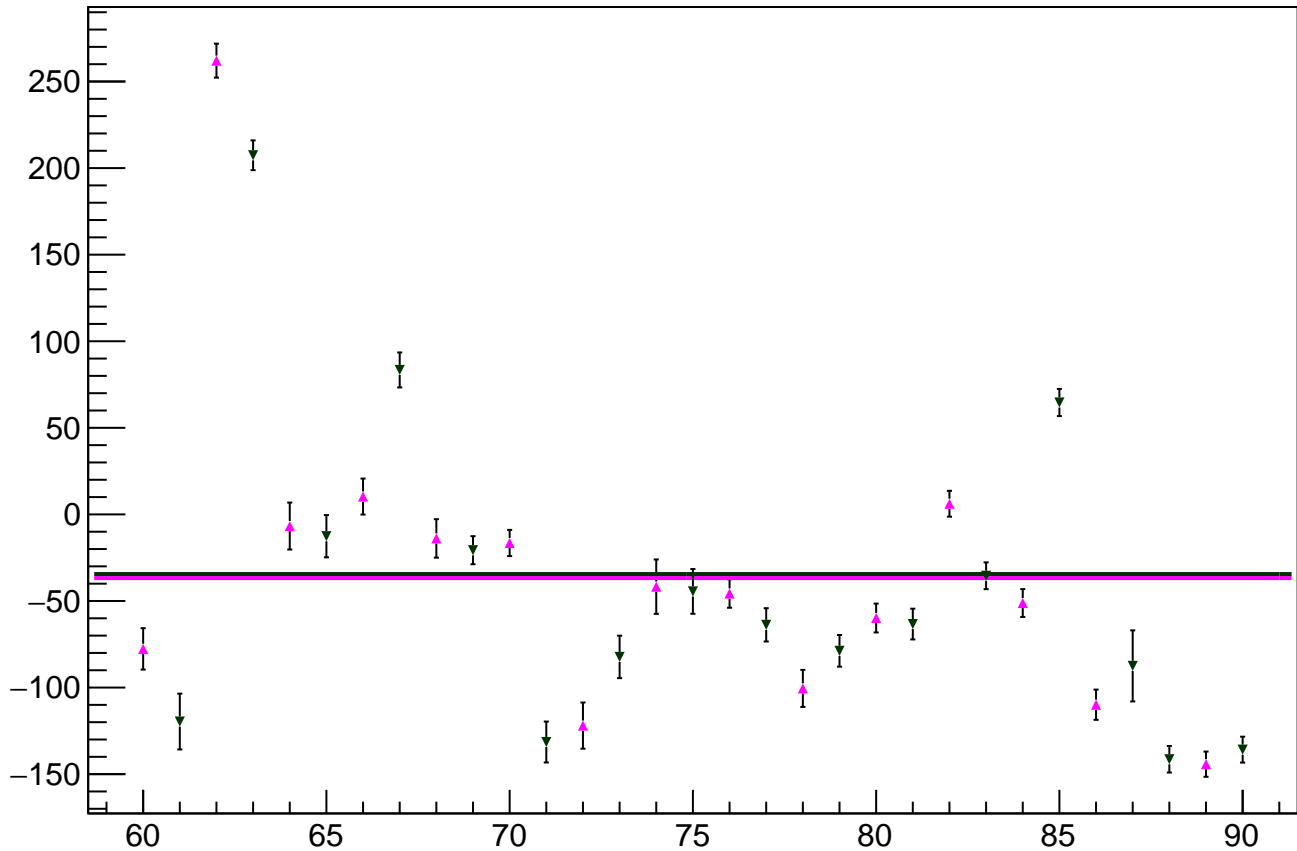
Left Out: 181.835+/-1.920  $\chi^2$ /NDF:486.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

177.935+/-1.997  $\chi^2$ /NDF: 619.1/14

Left In: 177.935+/-1.997  $\chi^2$ /NDF:619.1/14

# reg\_asym\_sam\_37\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -34.445+/-2.393  $\chi^2$ /NDF:1631.4/15

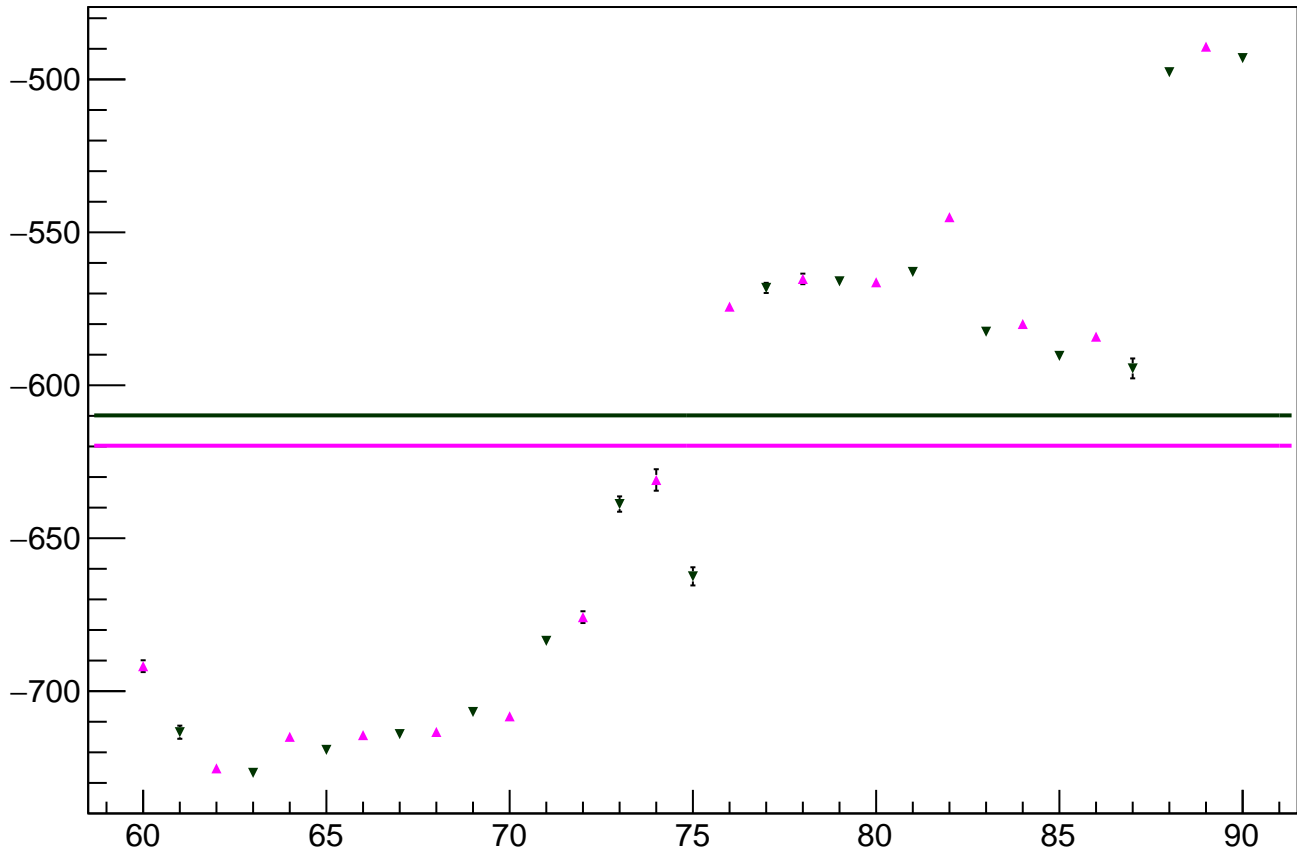
-34.445+/-2.393  $\chi^2$ /NDF: 1631.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -36.765+/-2.421  $\chi^2$ /NDF:1386.1/14

-36.765+/-2.421  $\chi^2$ /NDF: 1386.1/14

# reg\_asym\_sam\_37\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-609.845+/-0.358  $\chi^2$ /NDF: 60121.1/15

Left Out: -609.845+/-0.358  $\chi^2$ /NDF:60121.1/15

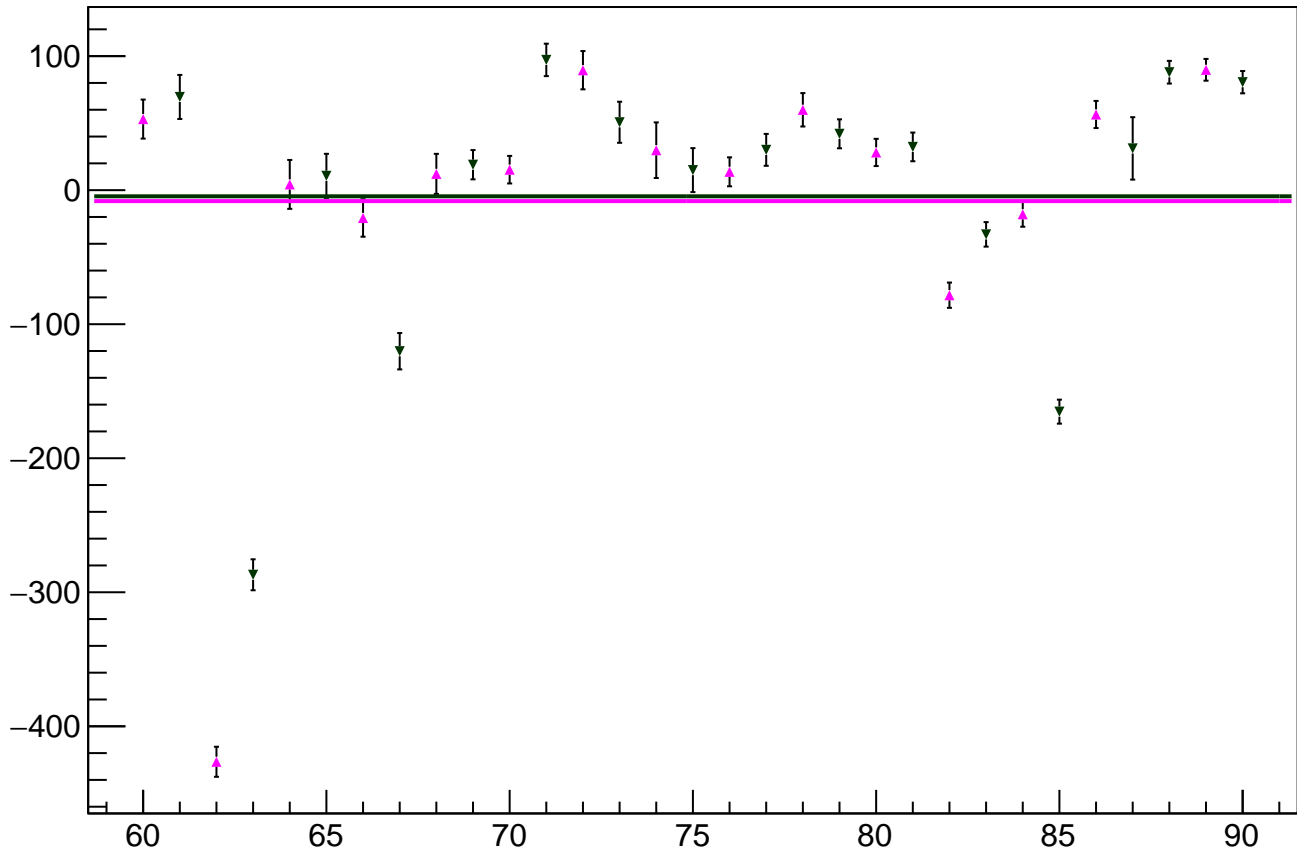
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-619.752+/-0.365  $\chi^2$ /NDF: 53319.9/14

Left In: -619.752+/-0.365  $\chi^2$ /NDF:53319.9/14



# reg\_asym\_sam\_37\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -4.584+/-2.856  $\chi^2$ /NDF:1378.2/15

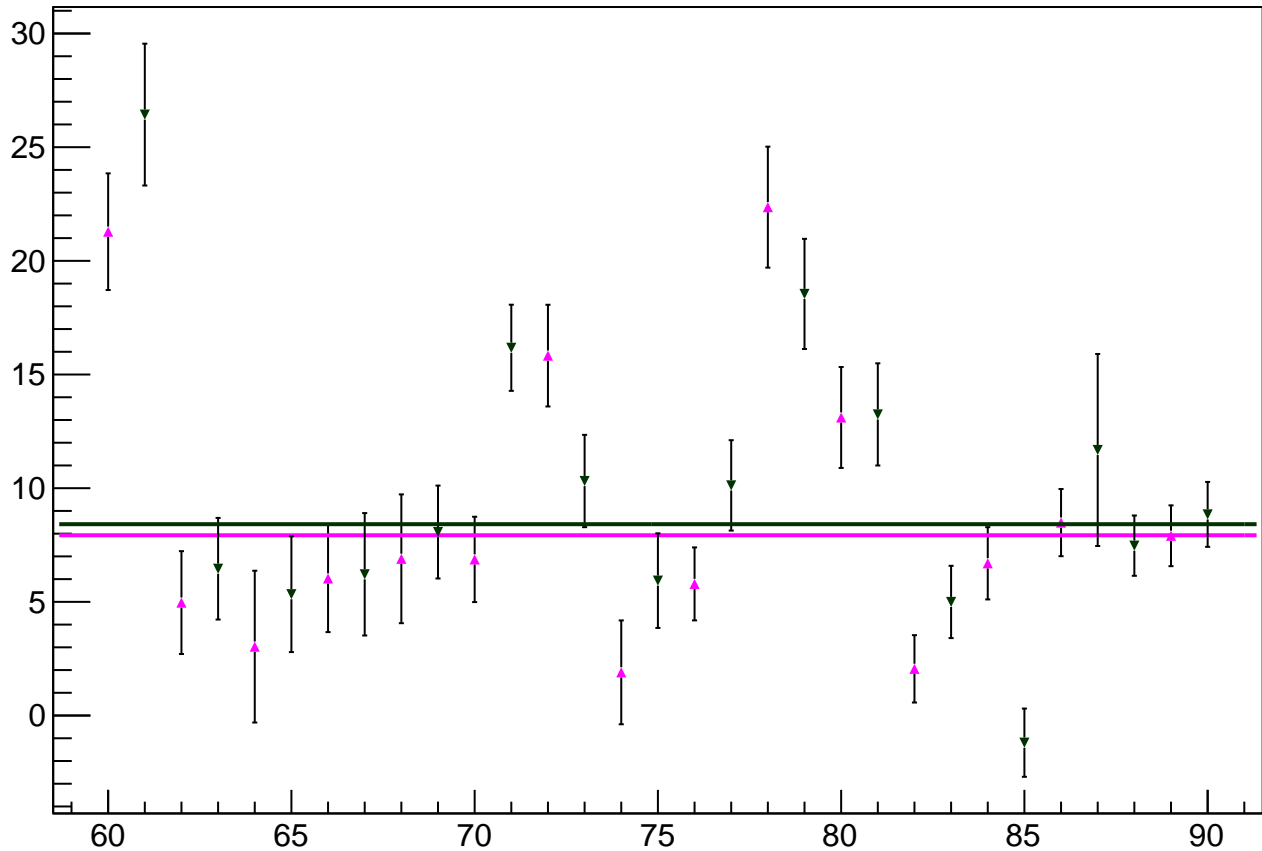
-4.584+/-2.856  $\chi^2$ /NDF: 1378.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -8.163+/-2.957  $\chi^2$ /NDF:1758.2/14

-8.163+/-2.957  $\chi^2$ /NDF: 1758.2/14

# reg\_asym\_sam\_37\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 8.416+/-0.490  $\chi^2$ /NDF:125.0/15

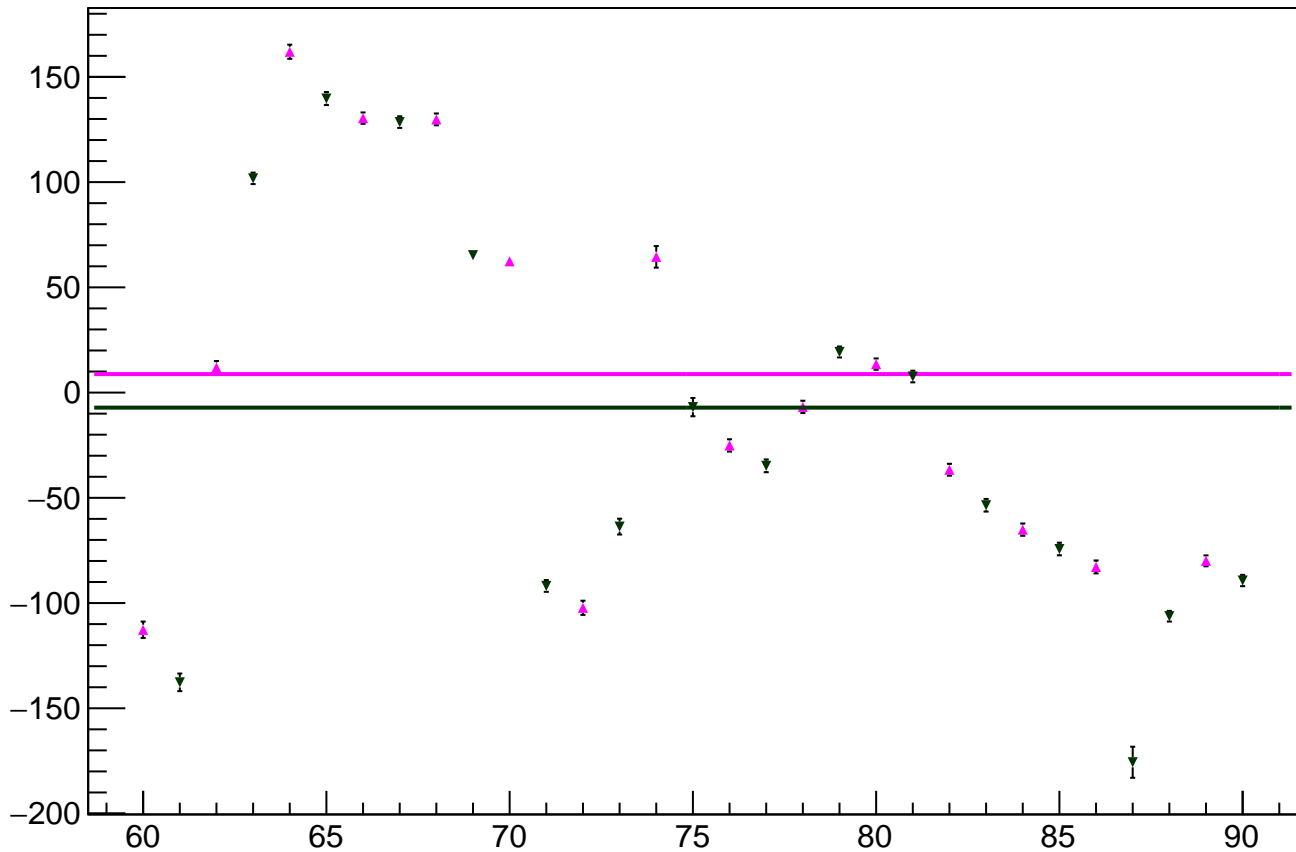
8.416+/-0.490  $\chi^2$ /NDF: 125.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

7.930+/-0.499  $\chi^2$ /NDF: 104.6/14

Left In: 7.930+/-0.499  $\chi^2$ /NDF:104.6/14

# reg\_asym\_sam\_26\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -7.147+/-0.747  $\chi^2$ /NDF:13301.5/15

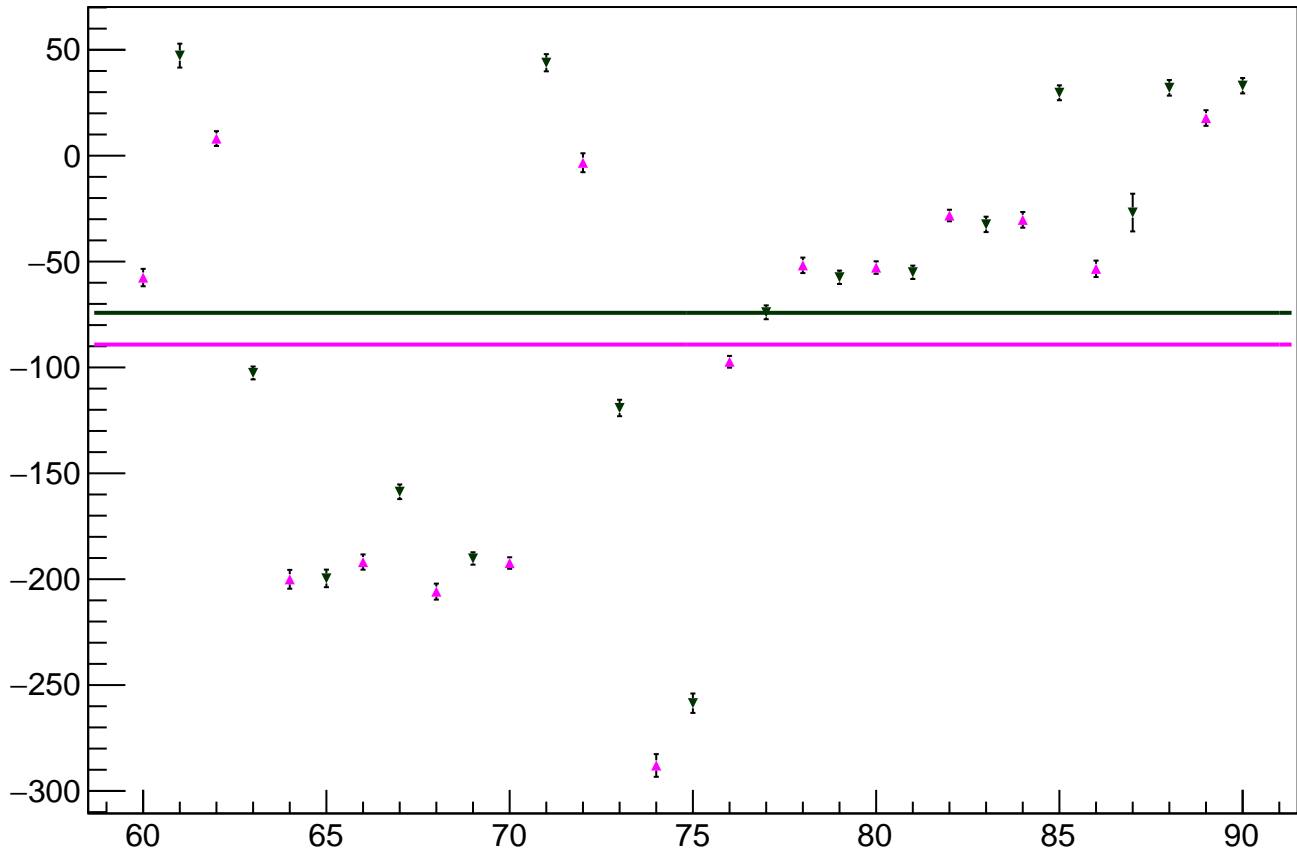
-7.147+/-0.747  $\chi^2$ /NDF: 13301.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

8.786+/-0.758  $\chi^2$ /NDF: 11883.4/14

Left In: 8.786+/-0.758  $\chi^2$ /NDF:11883.4/14

# reg\_asym\_sam\_26\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -74.203+/-0.920  $\chi^2/\text{NDF}$ : 9012.1/15

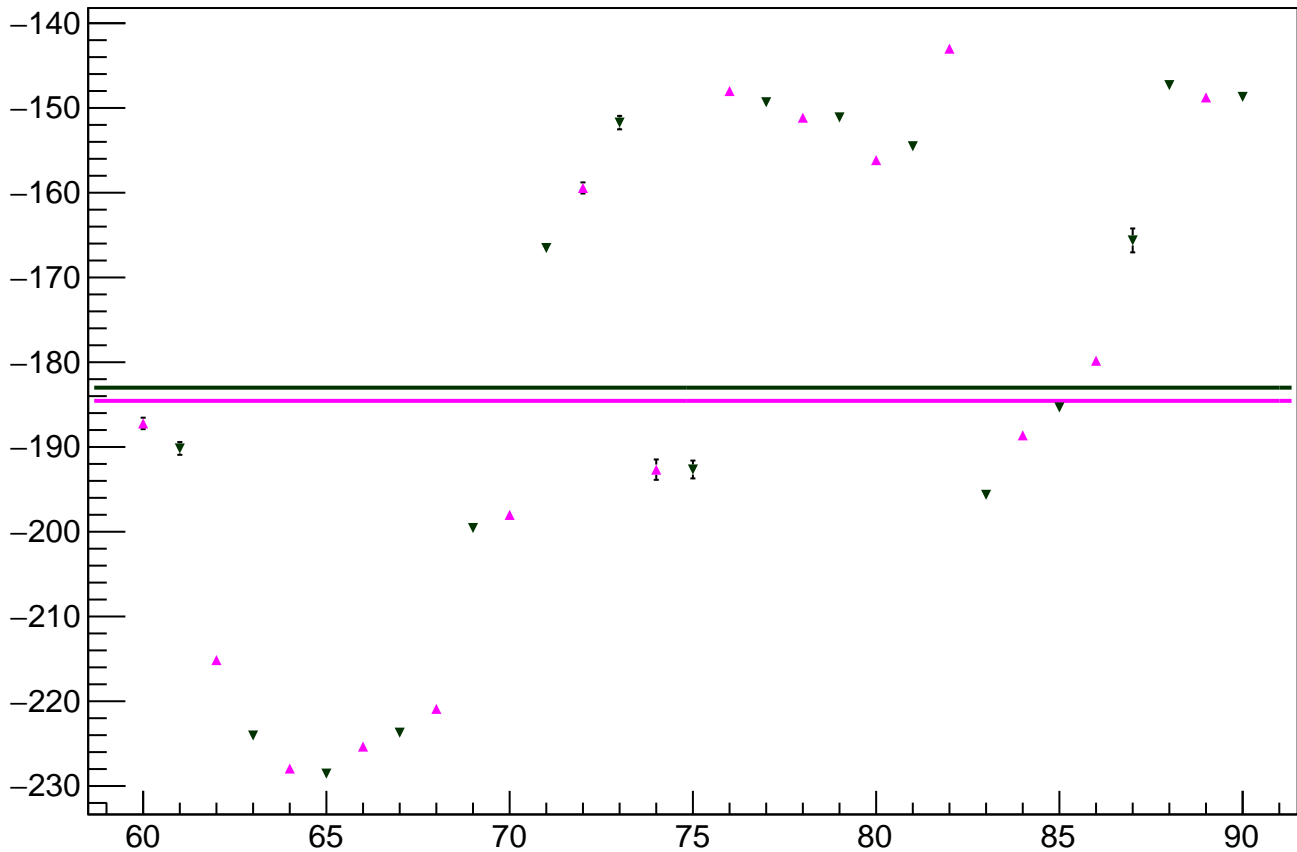
-74.203+/-0.920  $\chi^2/\text{NDF}$ : 9012.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -89.193+/-0.904  $\chi^2/\text{NDF}$ : 8352.8/14

-89.193+/-0.904  $\chi^2/\text{NDF}$ : 8352.8/14

# reg\_asym\_sam\_26\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -183.000+/-0.139  $\chi^2$ /NDF:49691.0/15

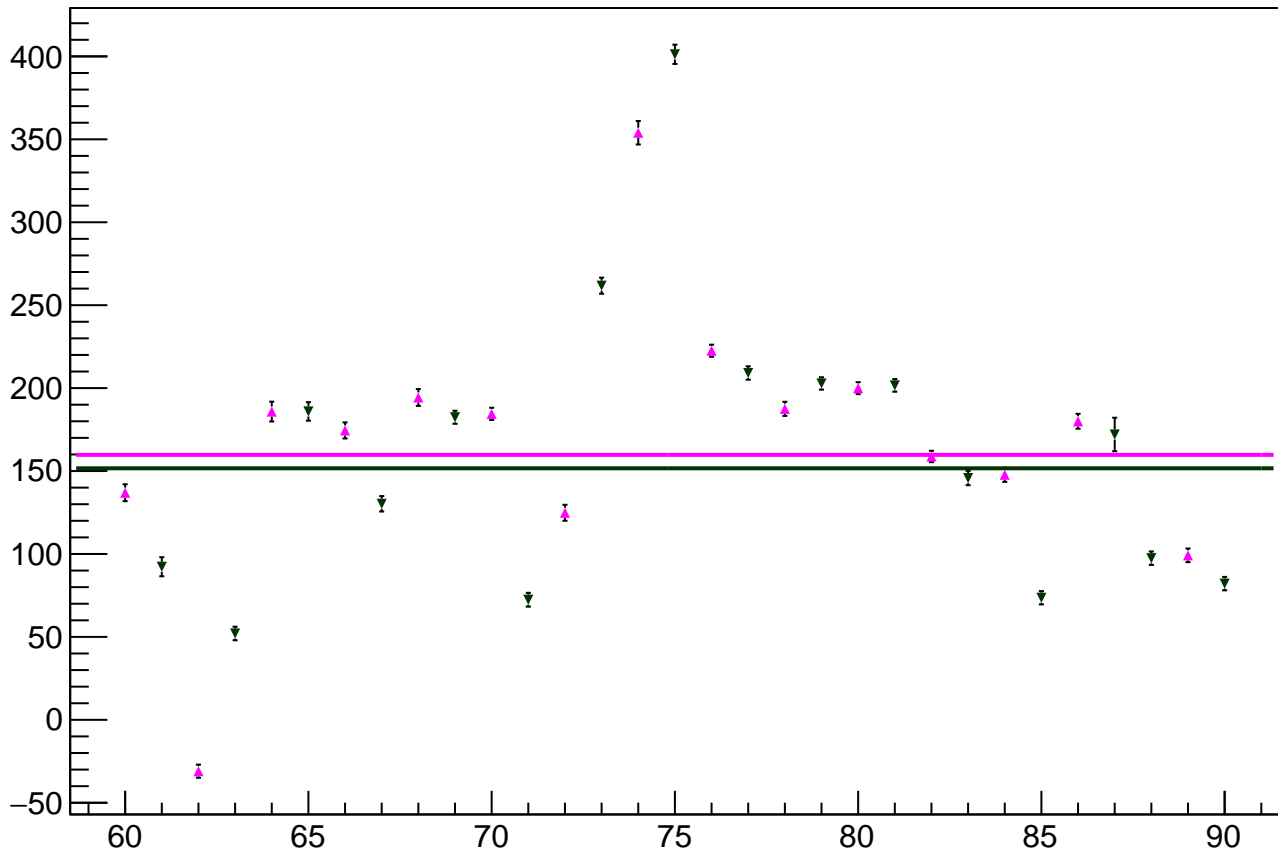
-183.000+/-0.139  $\chi^2$ /NDF: 49691.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -184.557+/-0.137  $\chi^2$ /NDF:52225.3/14

-184.557+/-0.137  $\chi^2$ /NDF: 52225.3/14

# reg\_asym\_sam\_26\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 151.650+/-1.111  $\chi^2/\text{NDF}$ : 4953.5/15

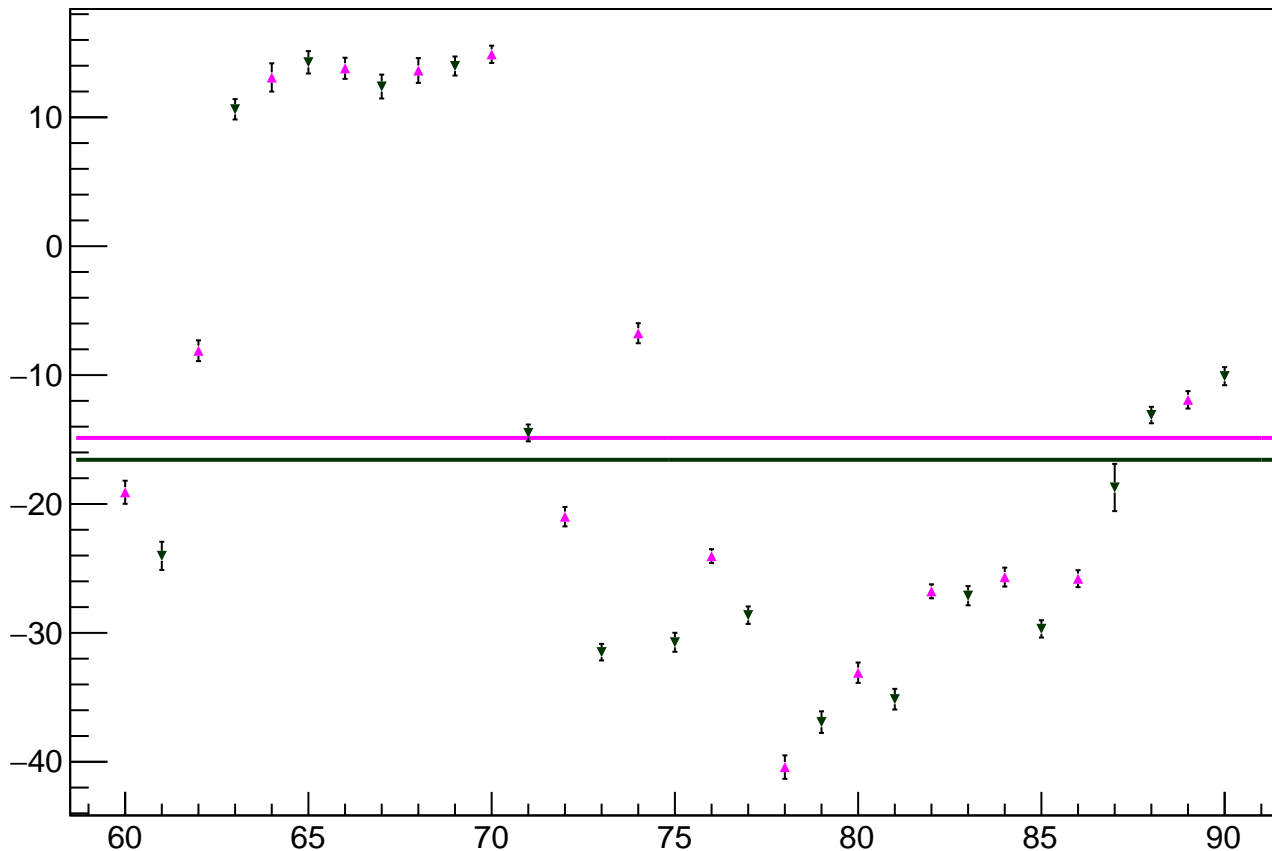
151.650+/-1.111  $\chi^2/\text{NDF}$ : 4953.5/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 159.753+/-1.117  $\chi^2/\text{NDF}$ : 3952.7/14

159.753+/-1.117  $\chi^2/\text{NDF}$ : 3952.7/14

# reg\_asym\_sam\_26\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -16.572+/-0.191  $\chi^2$ /NDF: 8235.5/15

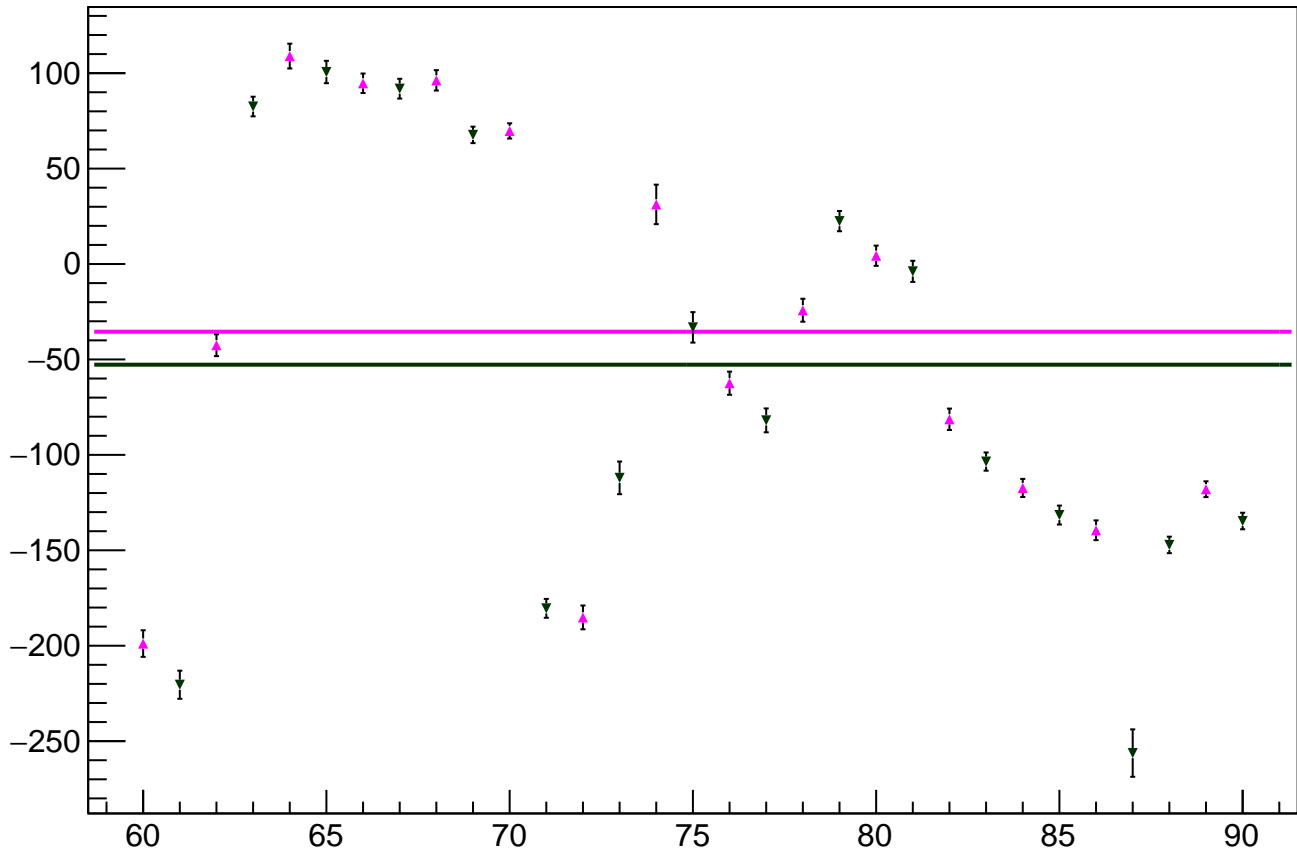
-16.572+/-0.191  $\chi^2$ /NDF: 8235.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -14.875+/-0.190  $\chi^2$ /NDF: 7585.2/14

-14.875+/-0.190  $\chi^2$ /NDF: 7585.2/14

# reg\_asym\_sam\_26\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -52.750+/-1.363  $\chi^2$ /NDF:5940.2/15

-52.750+/-1.363  $\chi^2$ /NDF: 5940.2/15

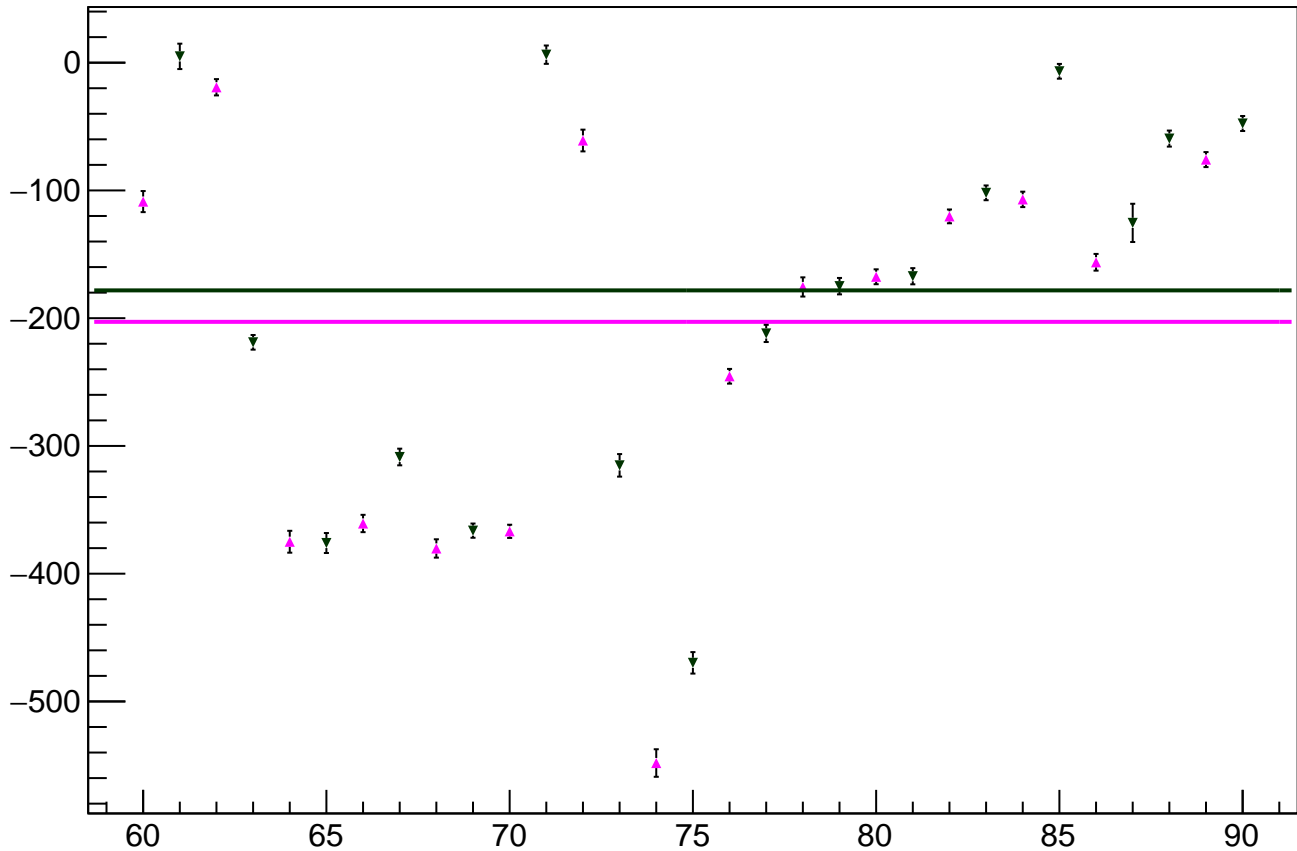
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -35.479+/-1.402  $\chi^2$ /NDF:4862.7/14

-35.479+/-1.402  $\chi^2$ /NDF: 4862.7/14



# reg\_asym\_sam\_26\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-178.237+/-1.693  $\chi^2$ /NDF: 6618.2/15

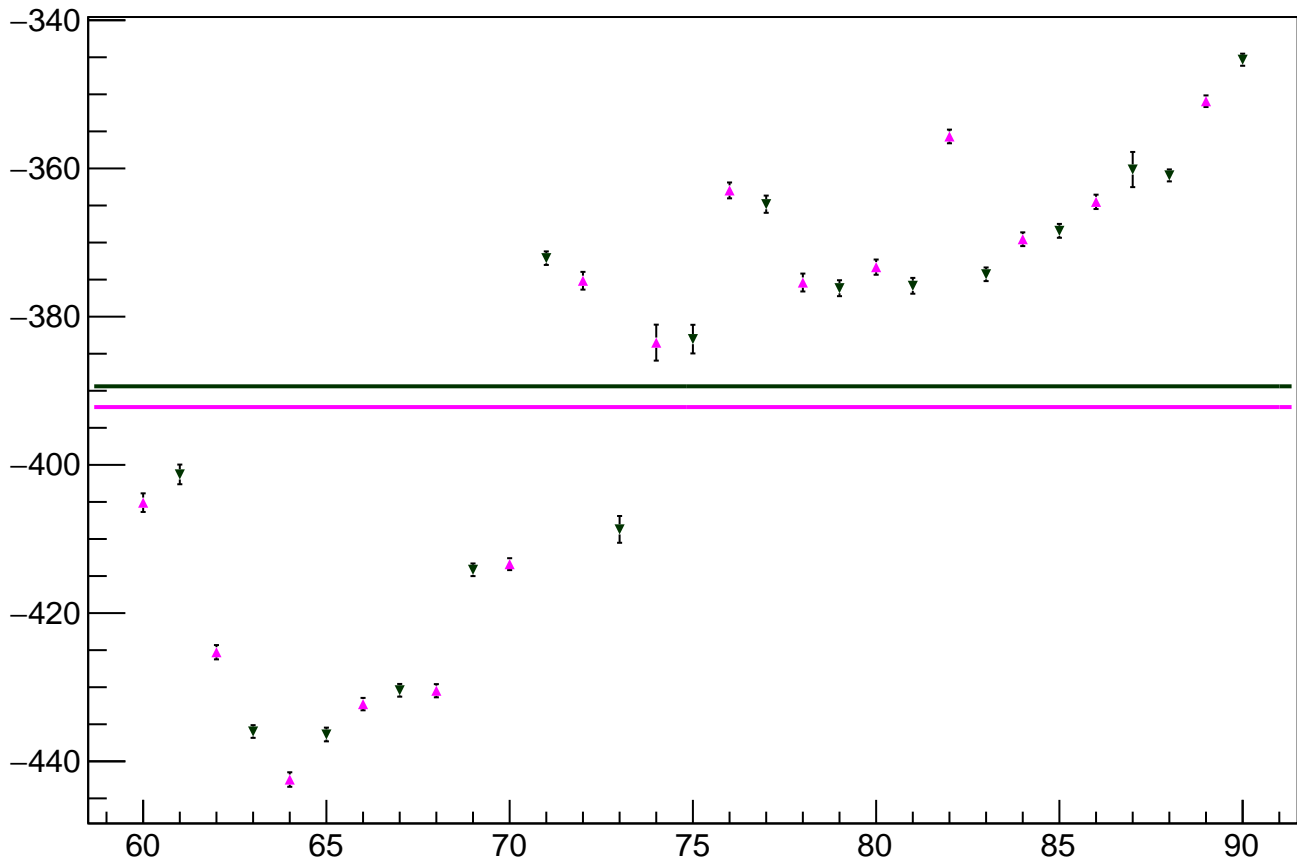
Left Out: -178.237+/-1.693  $\chi^2$ /NDF:6618.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-202.863+/-1.702  $\chi^2$ /NDF: 5932.0/14

Left In: -202.863+/-1.702  $\chi^2$ /NDF:5932.0/14

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -389.399+/-0.253  $\chi^2$ /NDF:15035.6/15

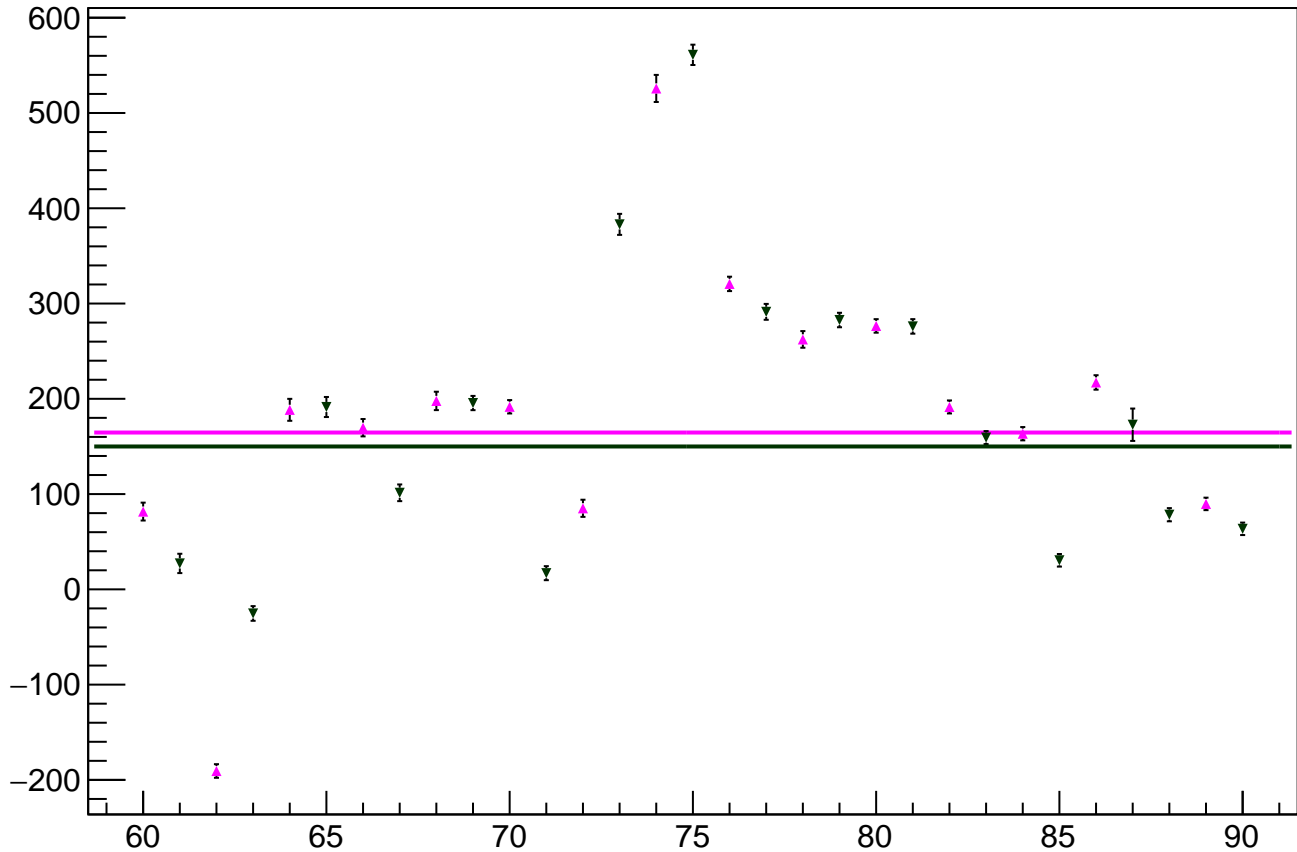
-389.399+/-0.253  $\chi^2$ /NDF: 15035.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -392.200+/-0.255  $\chi^2$ /NDF:15989.0/14

-392.200+/-0.255  $\chi^2$ /NDF: 15989.0/14

# reg\_asym\_sam\_26\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

149.963+/-2.029  $\chi^2$ /NDF: 4483.7/15

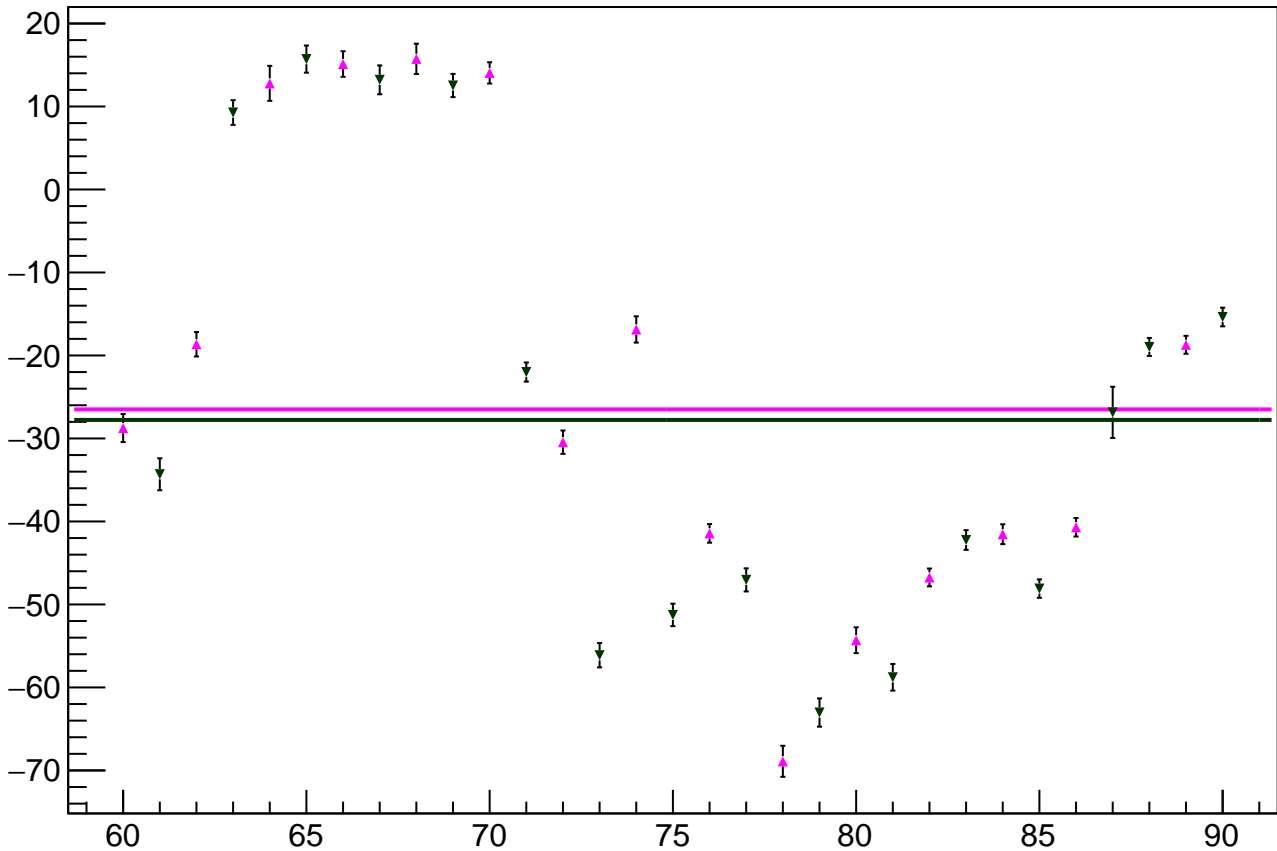
Left Out: 149.963+/-2.029  $\chi^2$ /NDF:4483.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

164.601+/-2.077  $\chi^2$ /NDF: 4295.6/14

Left In: 164.601+/-2.077  $\chi^2$ /NDF:4295.6/14

# reg\_asym\_sam\_26\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -27.766+/-0.349  $\chi^2$ /NDF: 5083.6/15

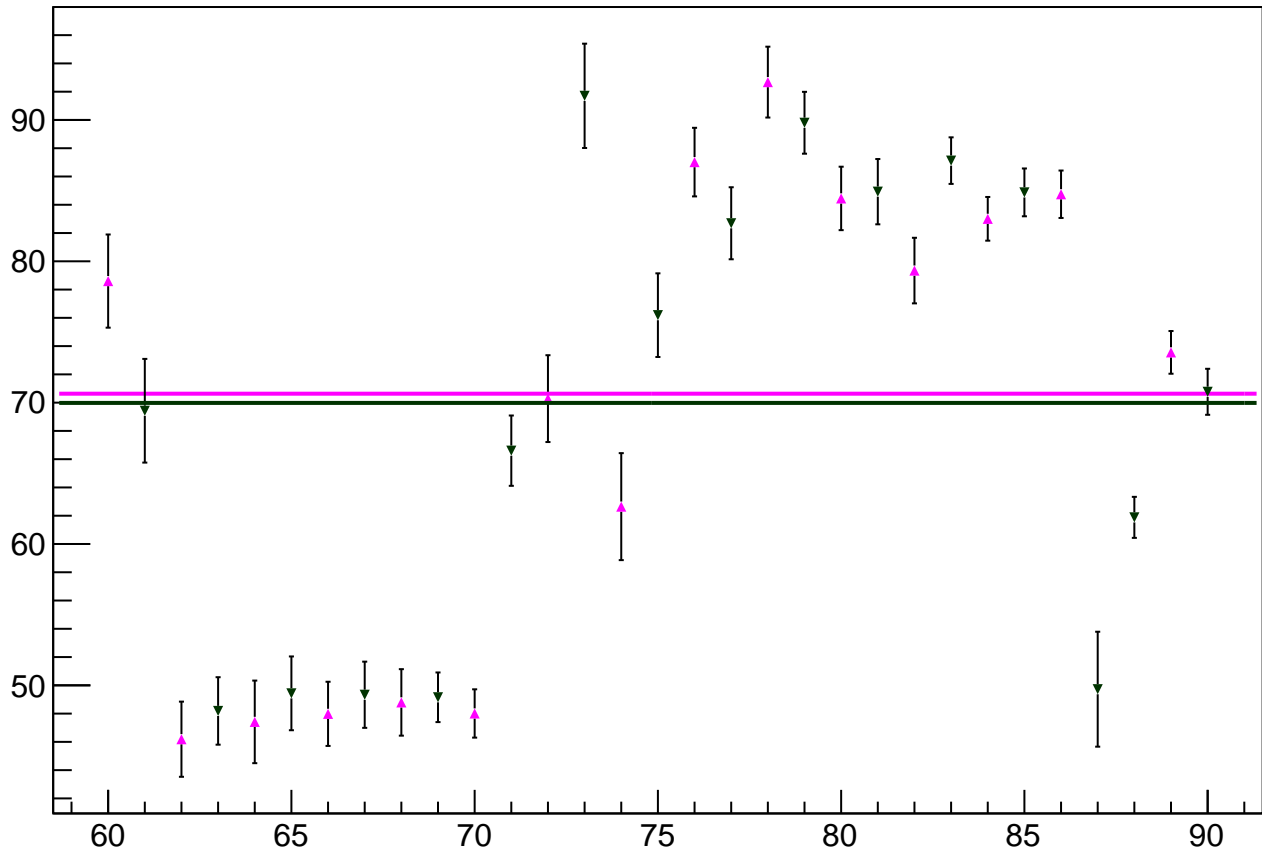
-27.766+/-0.349  $\chi^2$ /NDF: 5083.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -26.498+/-0.354  $\chi^2$ /NDF: 4424.2/14

-26.498+/-0.354  $\chi^2$ /NDF: 4424.2/14

# reg\_asym\_sam\_48\_avg\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 69.981+/-0.540  $\chi^2$ /NDF:795.5/15

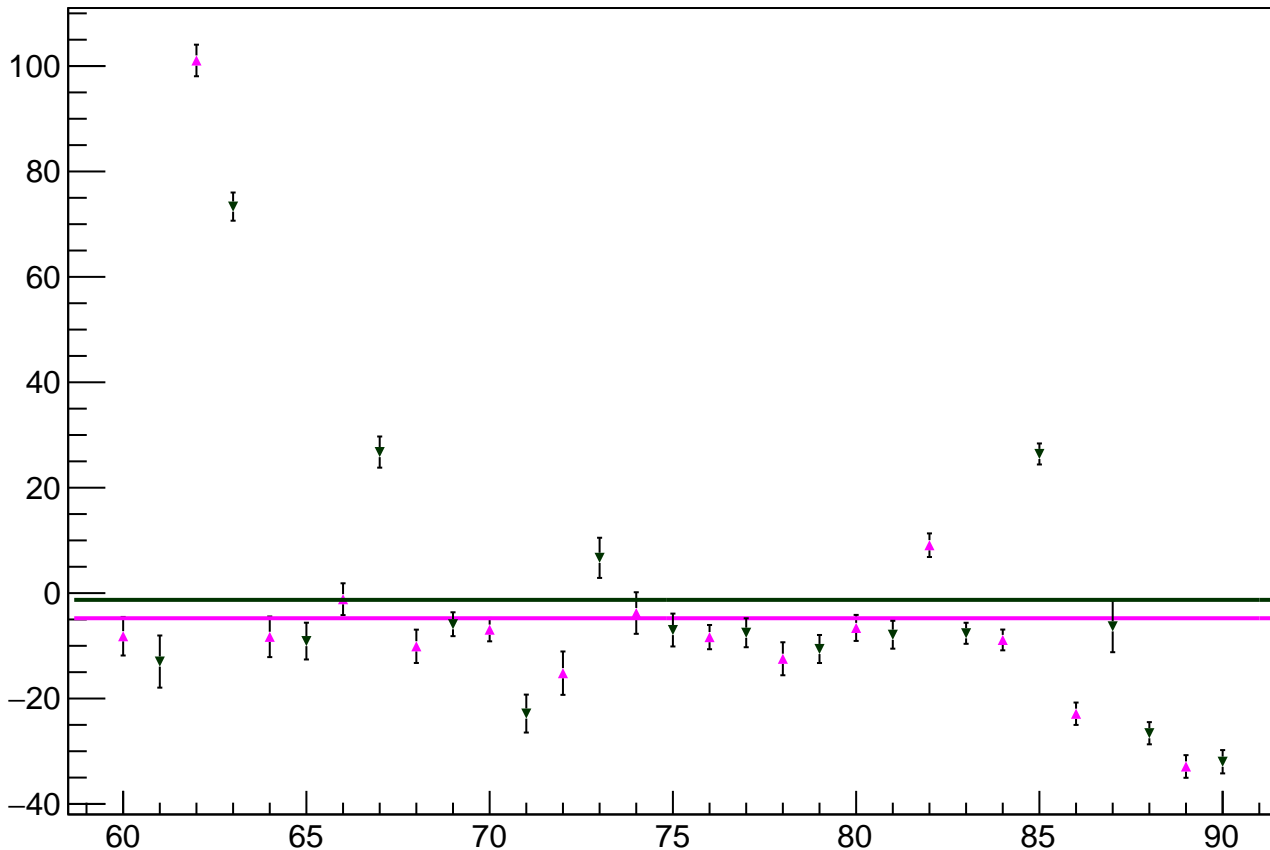
69.981+/-0.540  $\chi^2$ /NDF: 795.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 70.633+/-0.562  $\chi^2$ /NDF:832.5/14

70.633+/-0.562  $\chi^2$ /NDF: 832.5/14

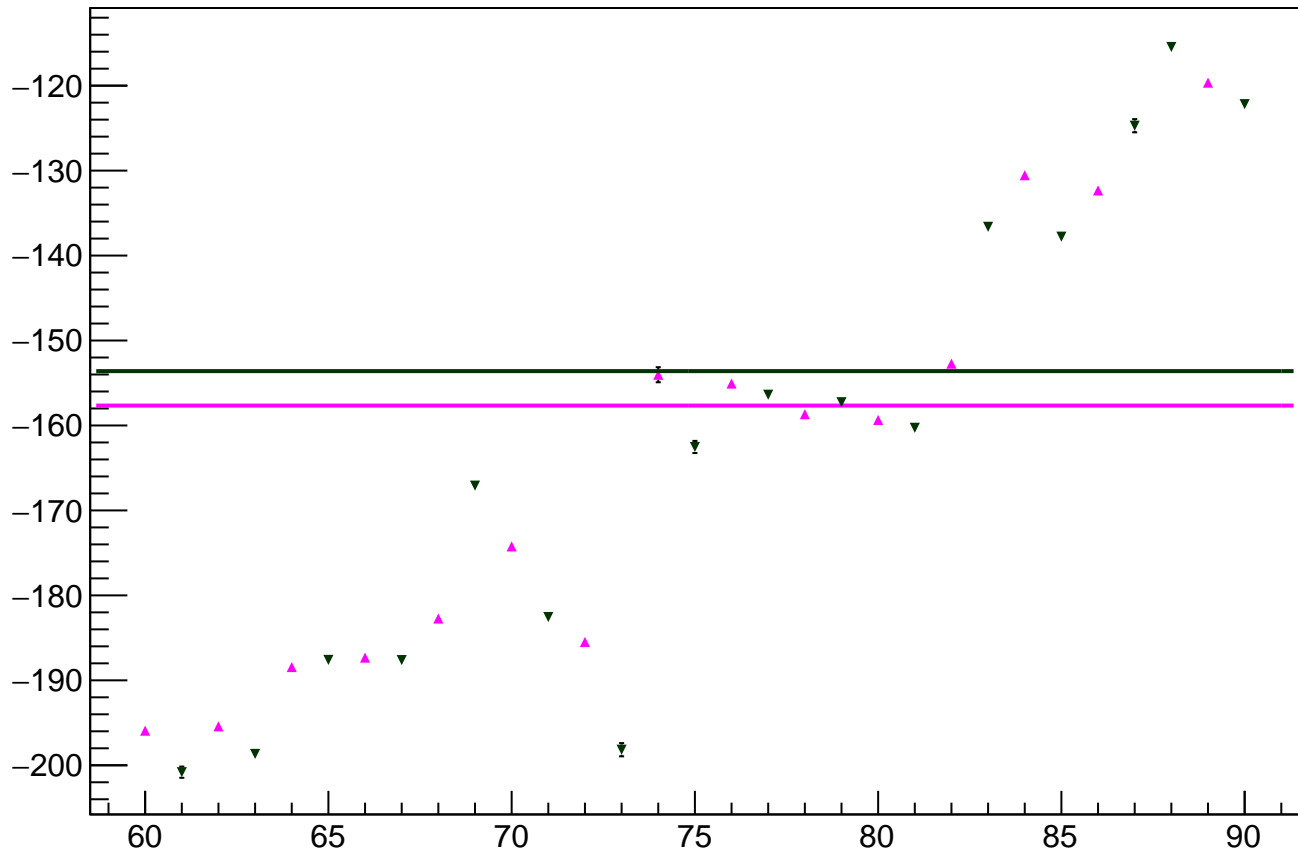
# reg\_asym\_sam\_48\_avg\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: -1.281+/-0.672  $\chi^2$ /NDF:1492.0/15  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: -4.767+/-0.684  $\chi^2$ /NDF:1556.6/14

-1.281+/-0.672  $\chi^2$ /NDF: 1492.0/15  
 -4.767+/-0.684  $\chi^2$ /NDF: 1556.6/14

# reg\_asym\_sam\_48\_avg\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: -153.602+/-0.101  $\chi^2/\text{NDF}$ : 78672.9/15

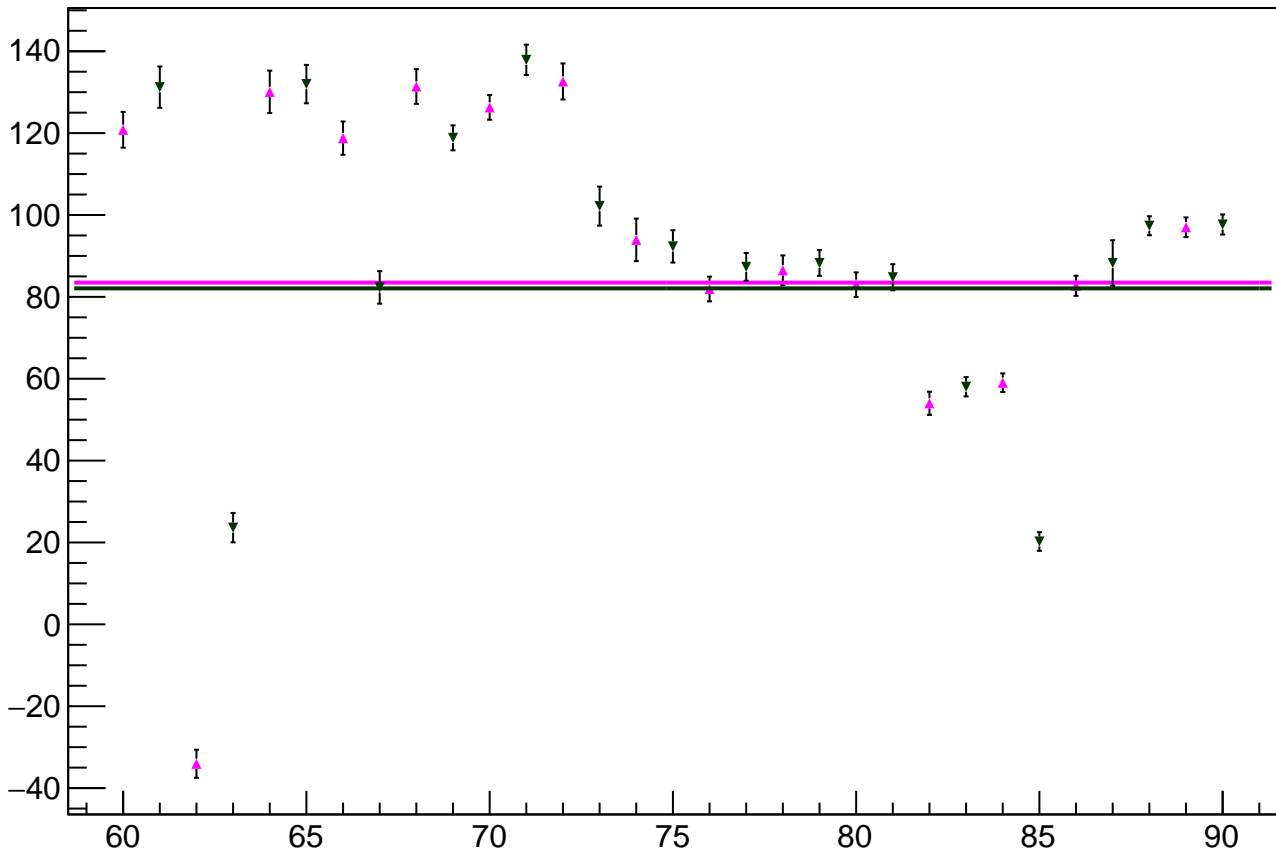
-153.602+/-0.101  $\chi^2/\text{NDF}$ : 78672.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -157.657+/-0.103  $\chi^2/\text{NDF}$ : 63675.0/14

-157.657+/-0.103  $\chi^2/\text{NDF}$ : 63675.0/14

# reg\_asym\_sam\_48\_avg\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 82.079+/-0.802  $\chi^2$ /NDF:1800.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

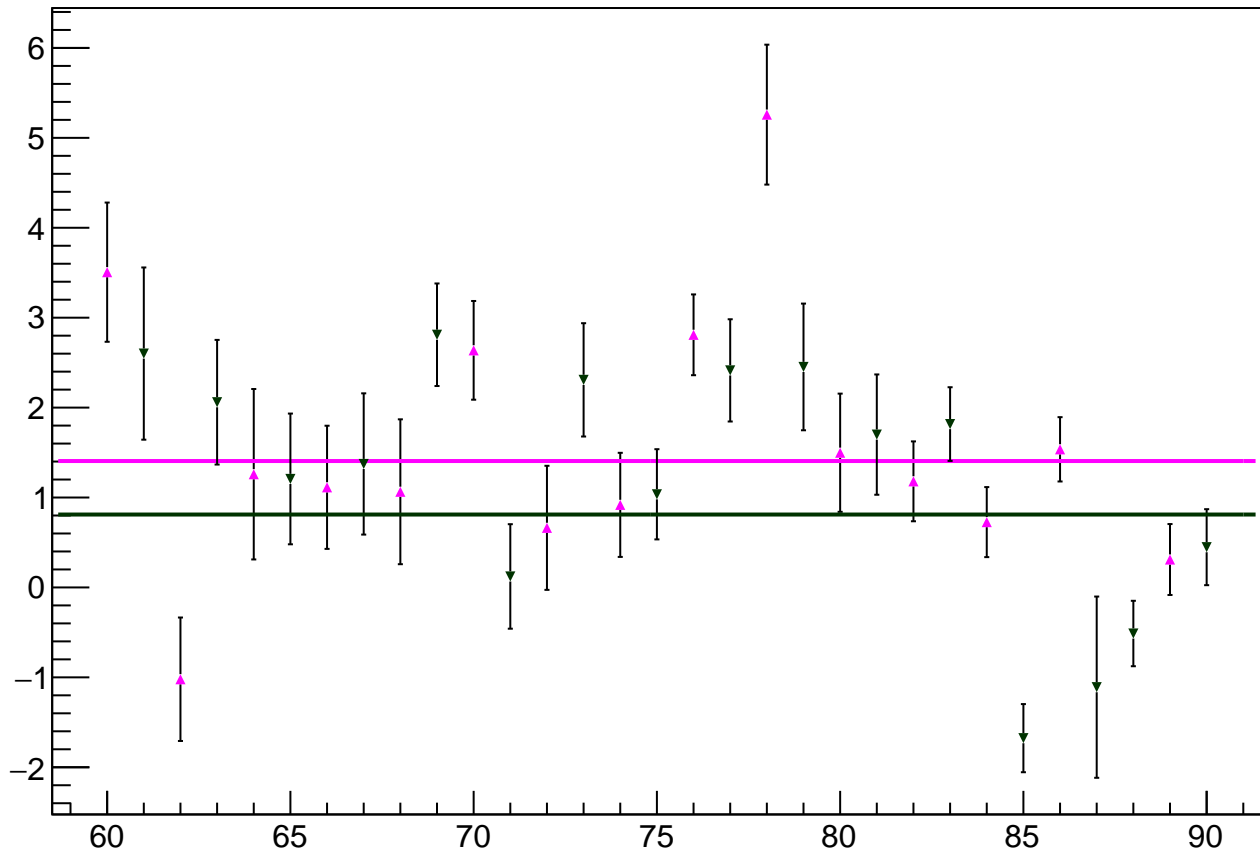
Left In: 83.474+/-0.833  $\chi^2$ /NDF:2116.3/14

82.079+/-0.802  $\chi^2$ /NDF: 1800.9/15

83.474+/-0.833  $\chi^2$ /NDF: 2116.3/14



# reg\_asym\_sam\_48\_avg\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.811+/-0.137  $\chi^2$ /NDF:108.9/15

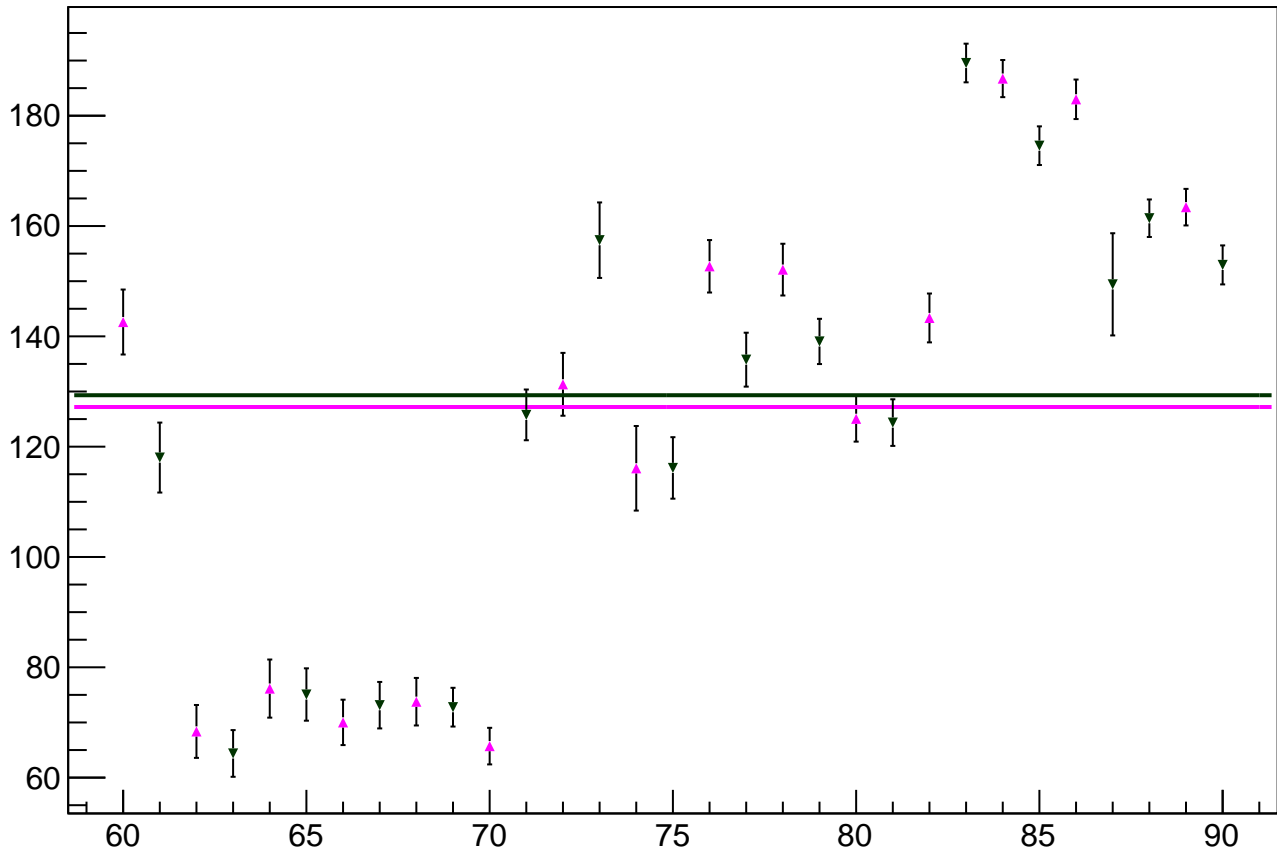
0.811+/-0.137  $\chi^2$ /NDF: 108.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.406+/-0.139  $\chi^2$ /NDF:72.6/14

1.406+/-0.139  $\chi^2$ /NDF: 72.6/14

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 129.327+/-1.077  $\chi^2$ /NDF:1438.5/15

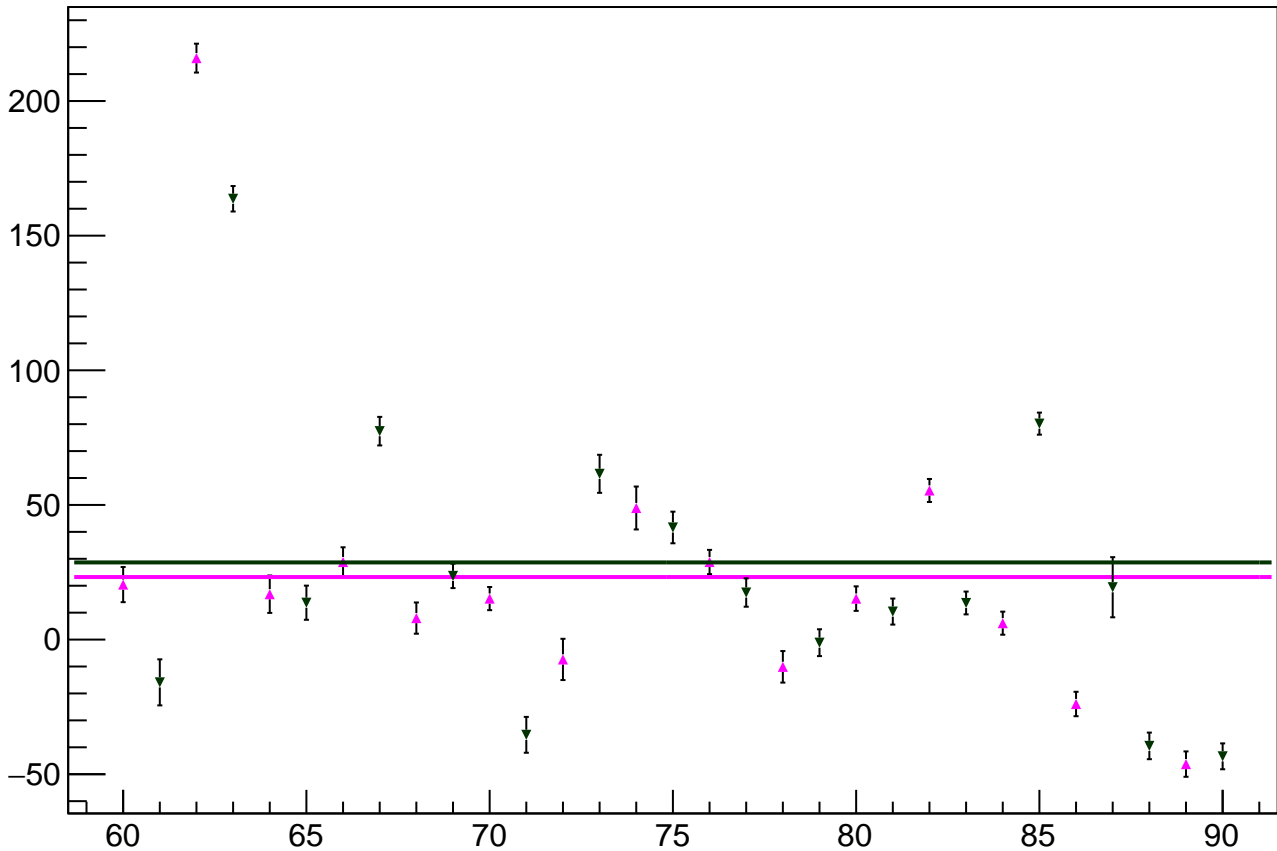
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 127.191+/-1.107  $\chi^2$ /NDF:1689.5/14

129.327+/-1.077  $\chi^2$ /NDF: 1438.5/15

127.191+/-1.107  $\chi^2$ /NDF: 1689.5/14

# reg\_asym\_sam\_48\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

28.655+/-1.329  $\chi^2/\text{NDF}$ : 1694.2/15

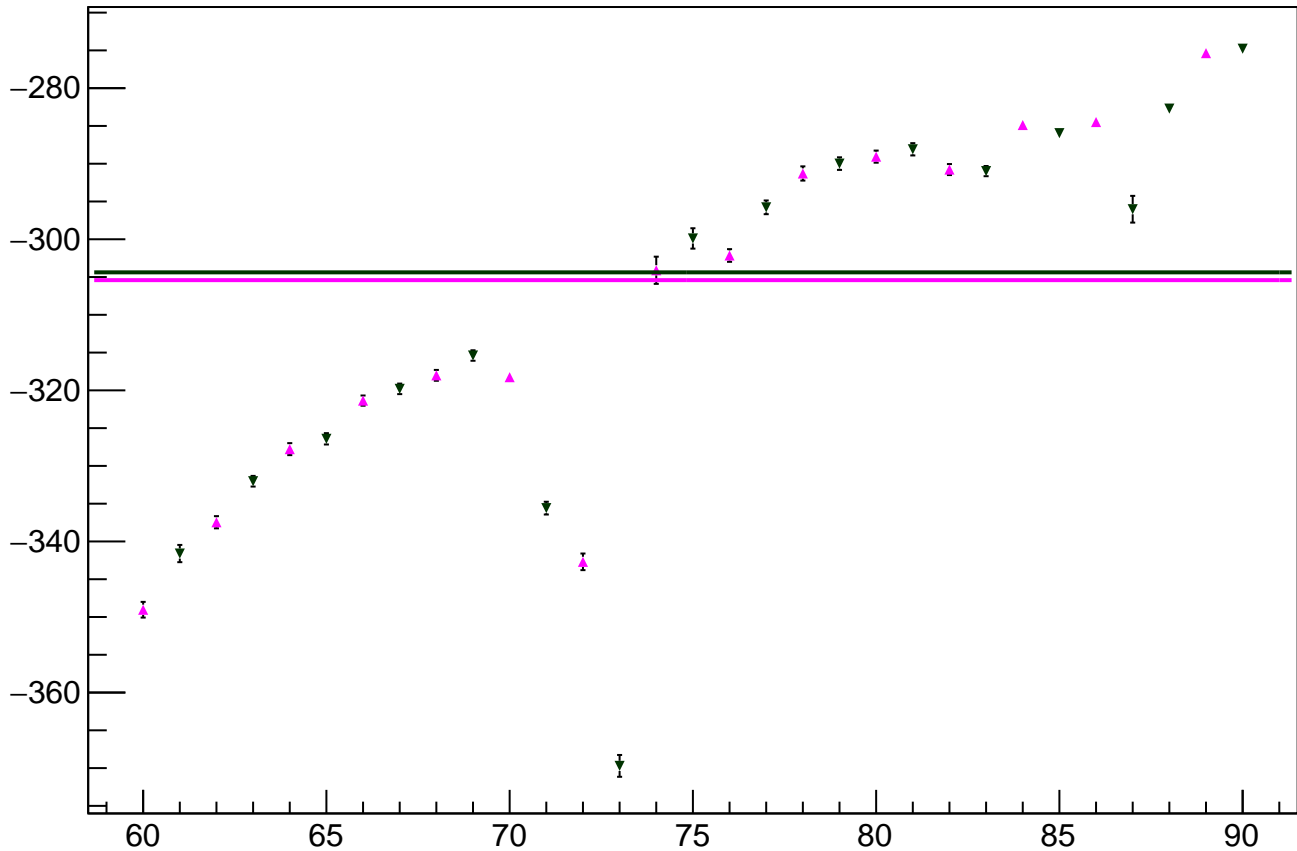
Left Out: 28.655+/-1.329  $\chi^2/\text{NDF}$ : 1694.2/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

23.227+/-1.338  $\chi^2/\text{NDF}$ : 1763.5/14

Left In: 23.227+/-1.338  $\chi^2/\text{NDF}$ : 1763.5/14

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -304.379+/-0.201  $\chi^2$ /NDF:12734.4/15

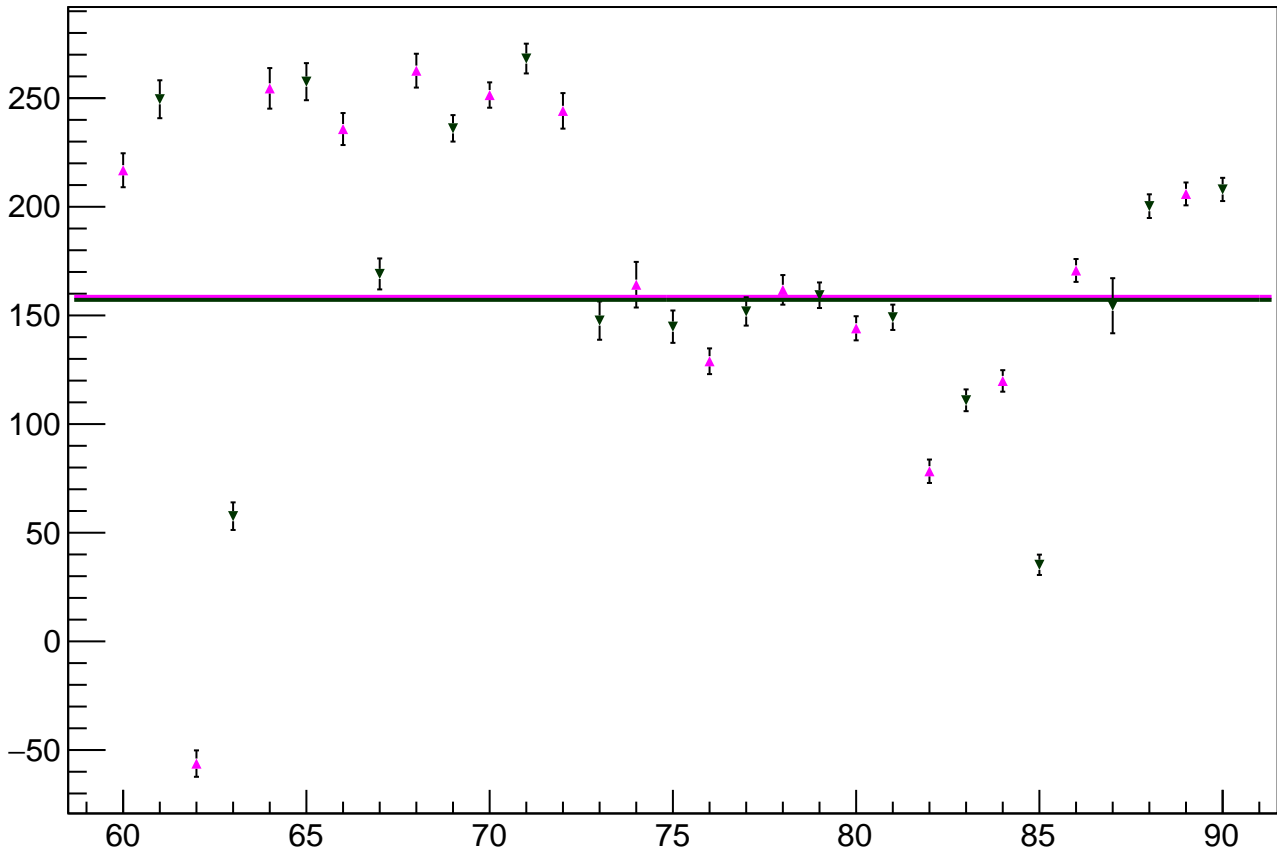
-304.379+/-0.201  $\chi^2$ /NDF: 12734.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -305.412+/-0.202  $\chi^2$ /NDF:11810.7/14

-305.412+/-0.202  $\chi^2$ /NDF: 11810.7/14

# reg\_asym\_sam\_48\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

157.175+/-1.596  $\chi^2$ /NDF: 1854.2/15

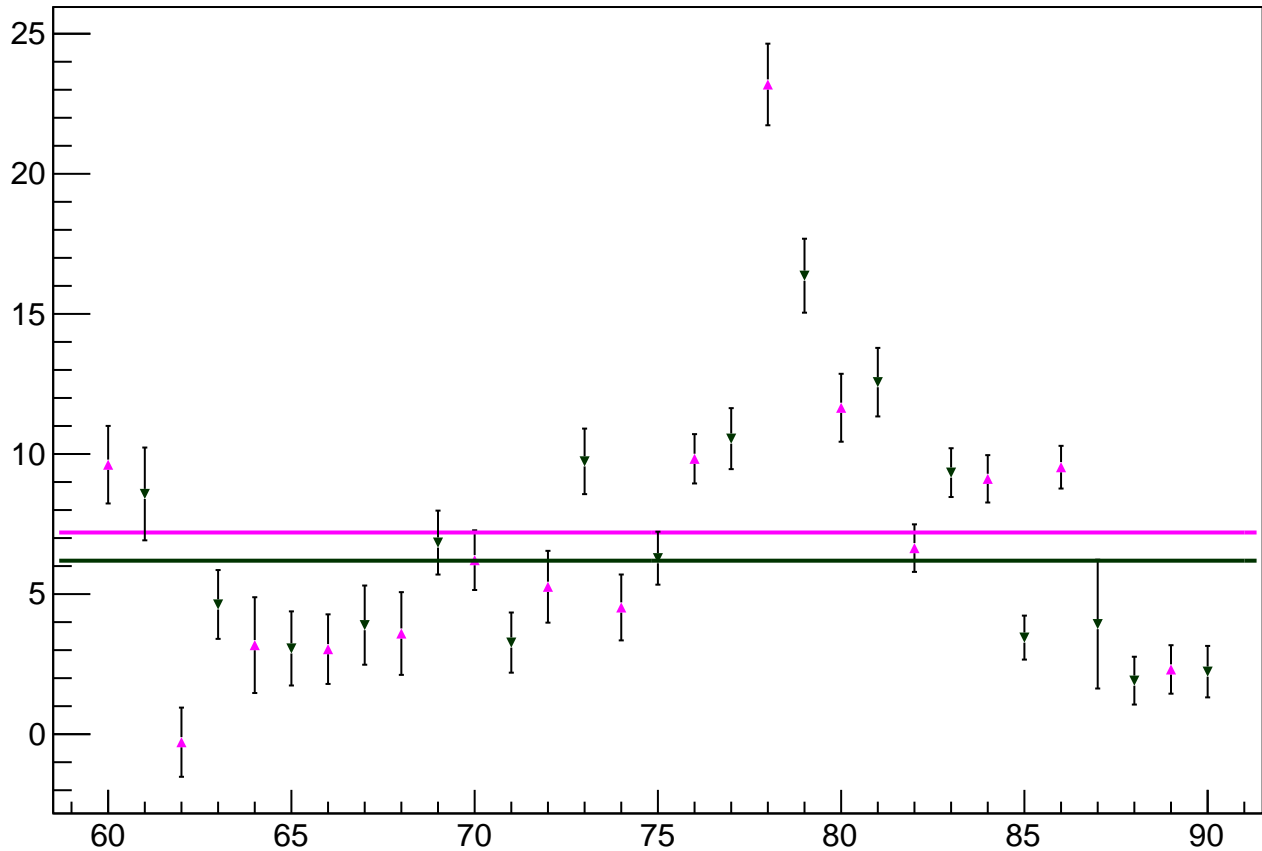
Left Out: 157.175+/-1.596  $\chi^2$ /NDF: 1854.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

158.561+/-1.637  $\chi^2$ /NDF: 2462.4/14

Left In: 158.561+/-1.637  $\chi^2$ /NDF: 2462.4/14

# reg\_asym\_sam\_48\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 6.193+/-0.274  $\chi^2/\text{NDF}$ :201.4/15

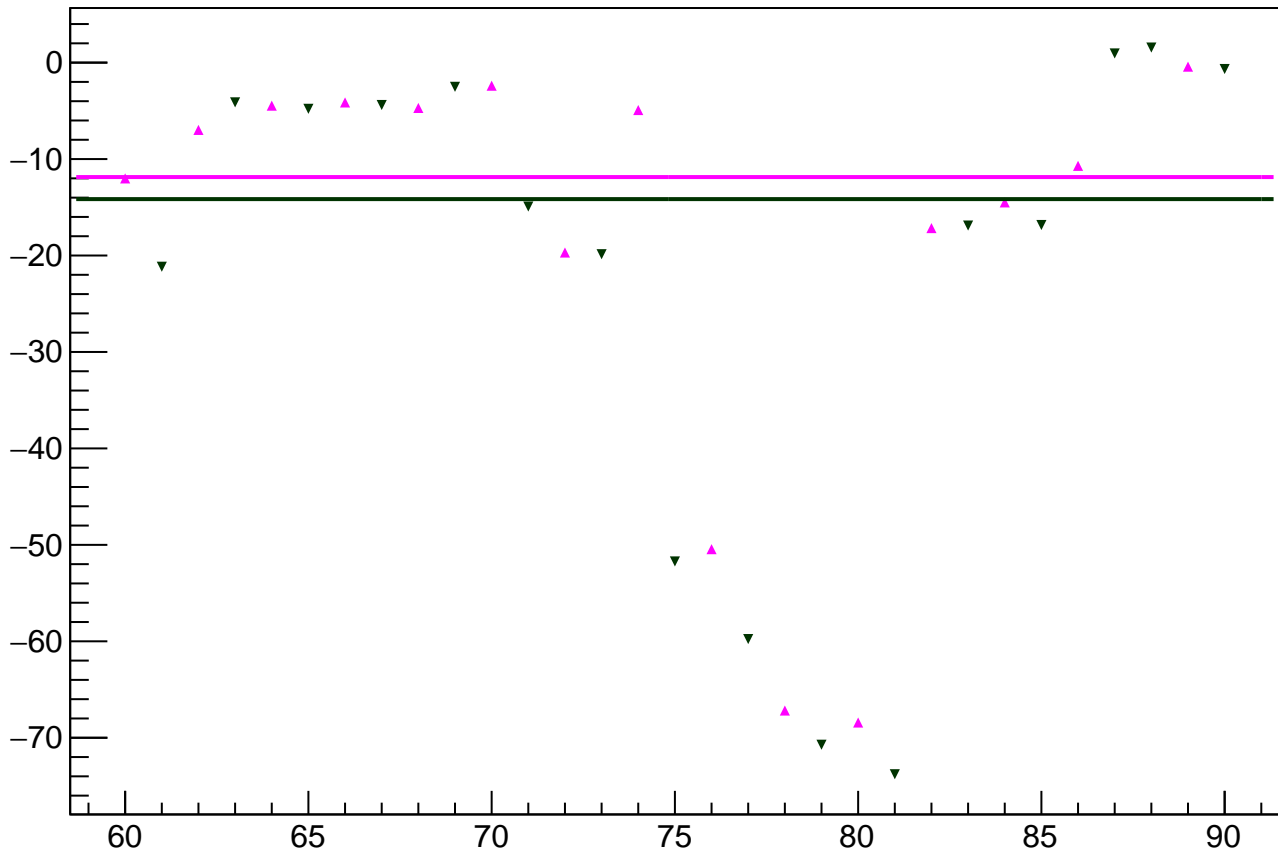
6.193+/-0.274  $\chi^2/\text{NDF}$ : 201.4/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 7.198+/-0.276  $\chi^2/\text{NDF}$ :260.7/14

7.198+/-0.276  $\chi^2/\text{NDF}$ : 260.7/14

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -14.152+/-0.059  $\chi^2$ /NDF:105535.8/15

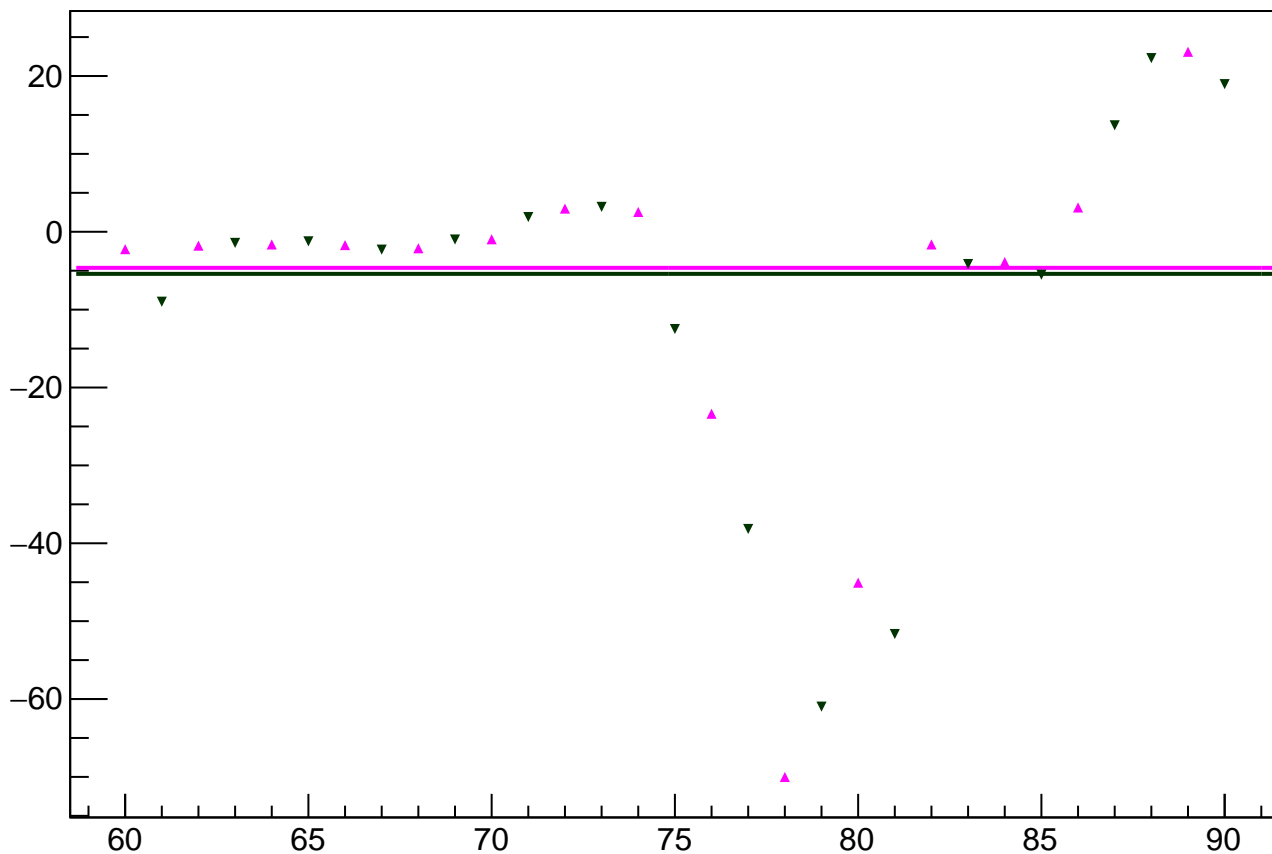
-14.152+/-0.059  $\chi^2$ /NDF: 105535.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.866+/-0.055  $\chi^2$ /NDF:81023.8/14

-11.866+/-0.055  $\chi^2$ /NDF: 81023.8/14

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -5.406+/-0.072  $\chi^2$ /NDF:49817.6/15

-5.406+/-0.072  $\chi^2$ /NDF: 49817.6/15

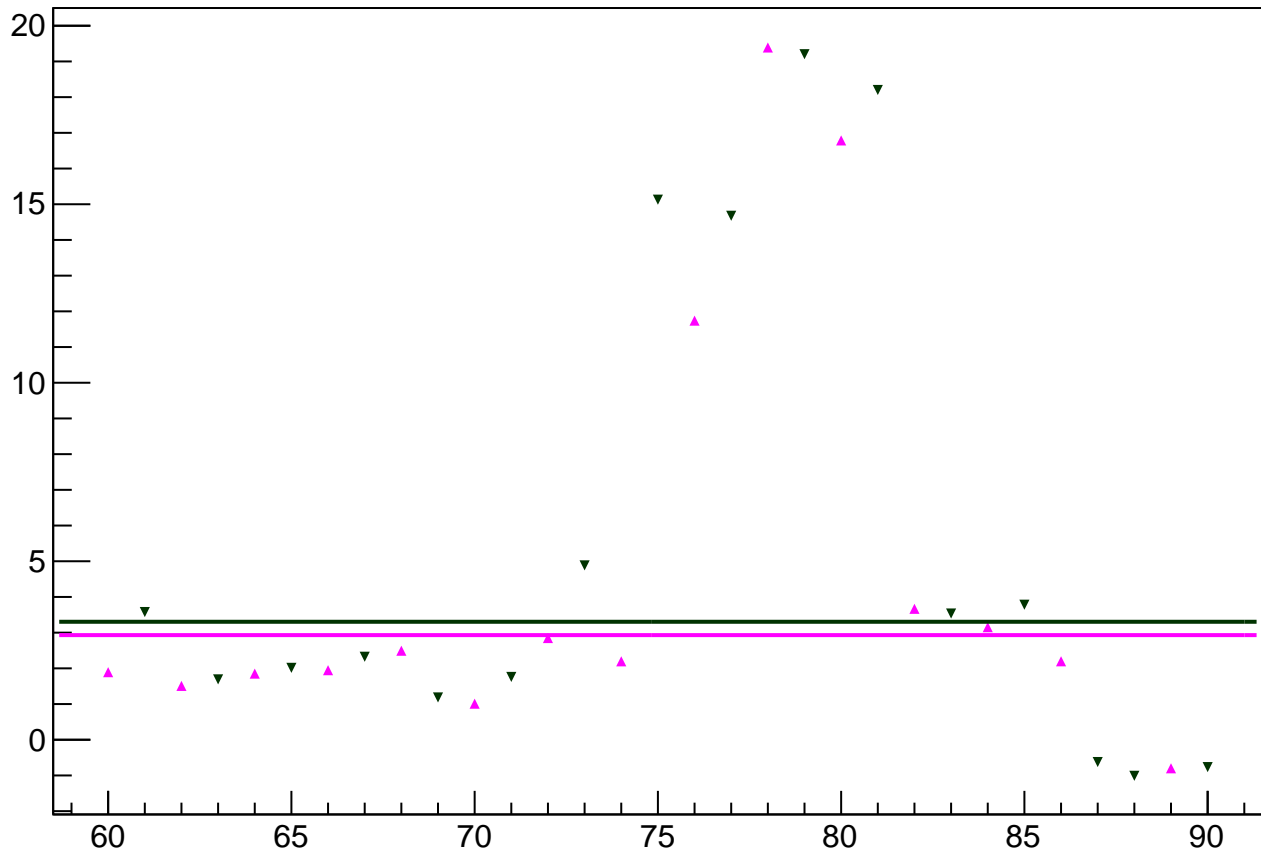
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -4.631+/-0.065  $\chi^2$ /NDF:40981.3/14

-4.631+/-0.065  $\chi^2$ /NDF: 40981.3/14



# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.305+/-0.011  $\chi^2/\text{NDF}$ :174244.3/15

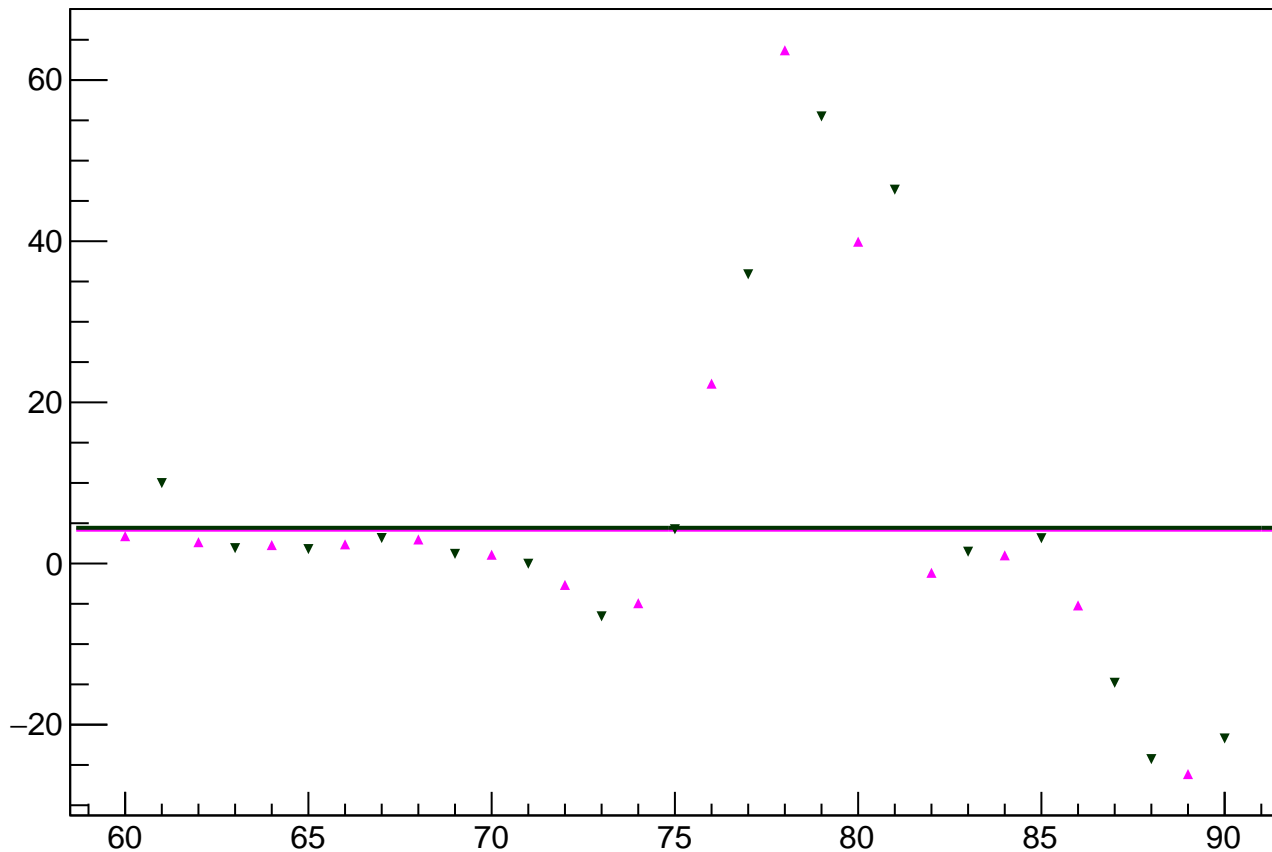
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.931+/-0.010  $\chi^2/\text{NDF}$ :135178.1/14

3.305+/-0.011  $\chi^2/\text{NDF}$ : 174244.3/15

2.931+/-0.010  $\chi^2/\text{NDF}$ : 135178.1/14

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.433+/-0.089  $\chi^2/\text{NDF}$ : 31721.8/15

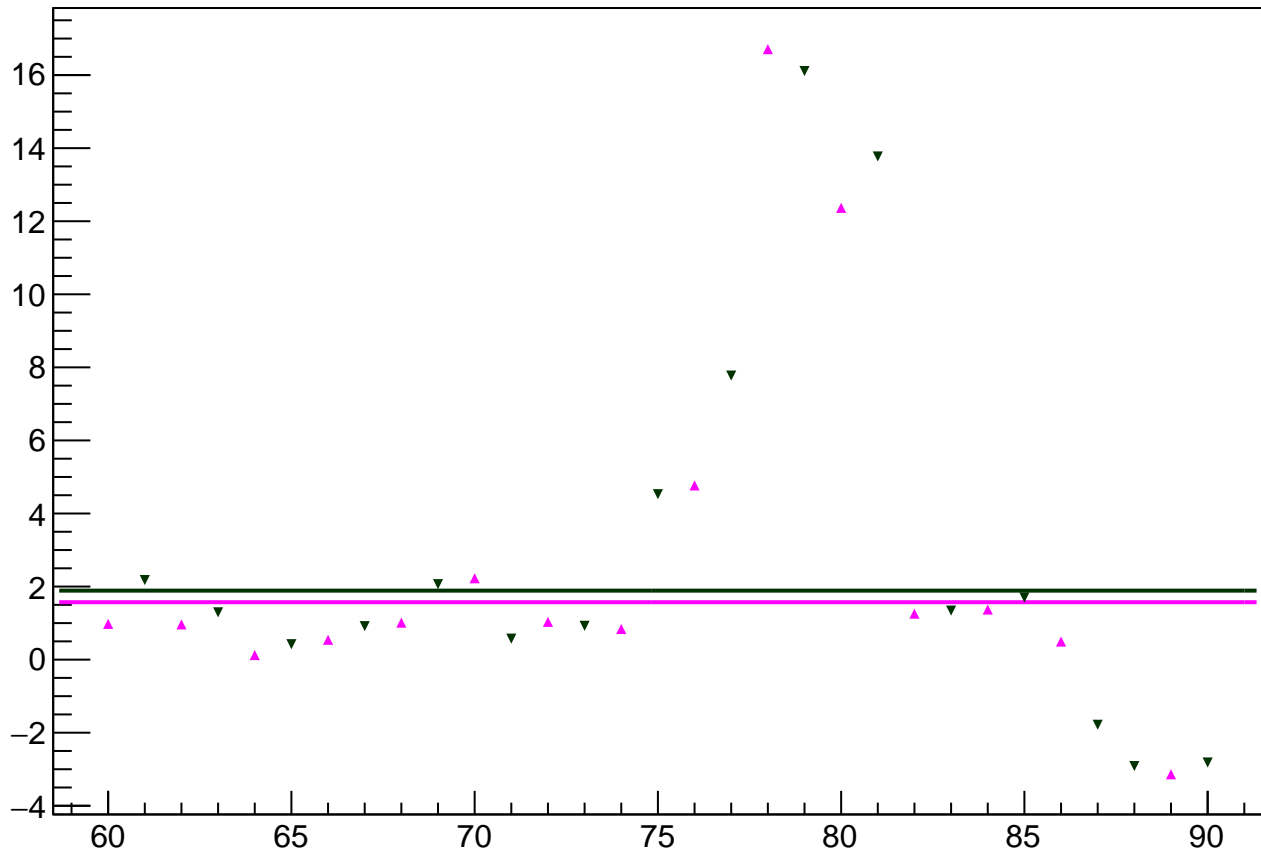
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.198+/-0.082  $\chi^2/\text{NDF}$ : 25018.4/14

4.433+/-0.089  $\chi^2/\text{NDF}$ : 31721.8/15

4.198+/-0.082  $\chi^2/\text{NDF}$ : 25018.4/14

# reg\_asym\_bcm\_an\_ds3\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.889+/-0.015  $\chi^2$ /NDF:47562.8/15

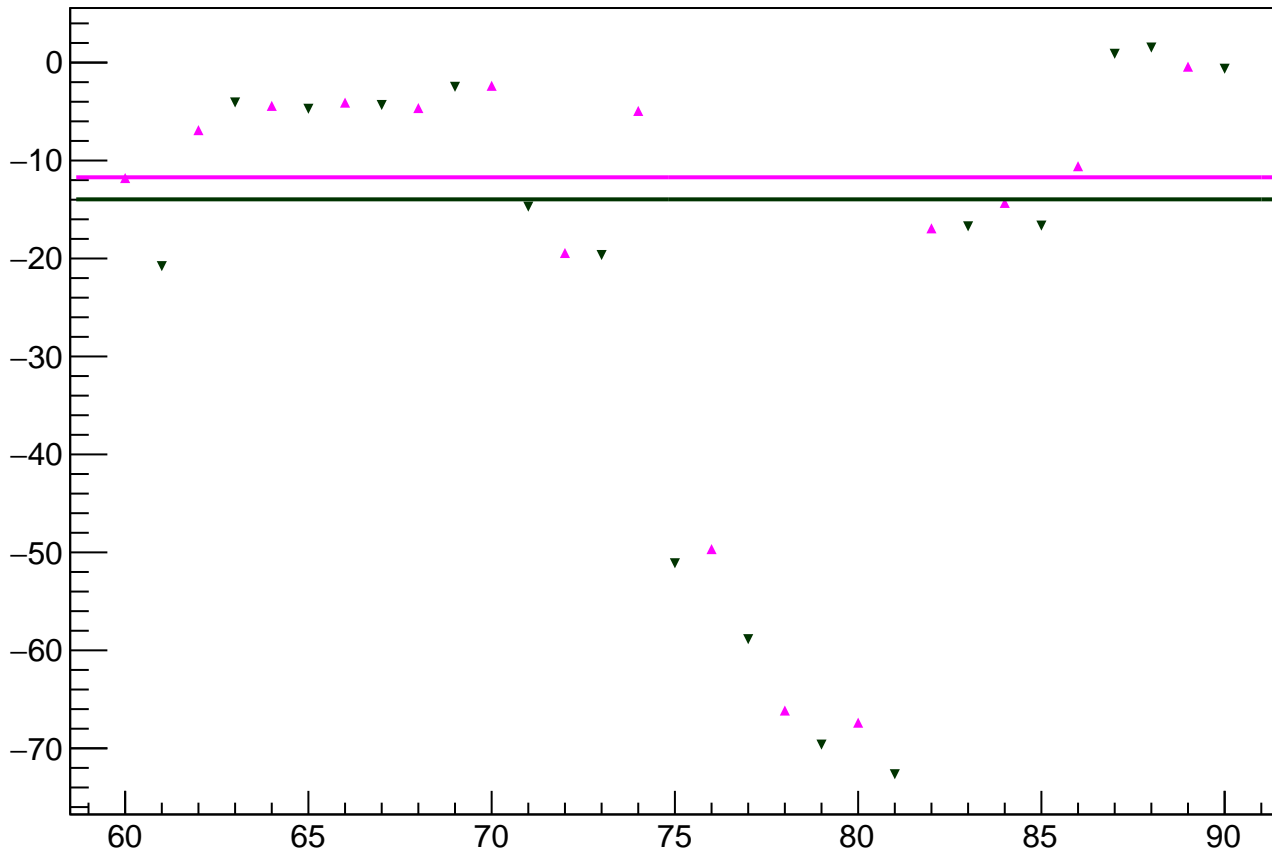
1.889+/-0.015  $\chi^2$ /NDF: 47562.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.571+/-0.014  $\chi^2$ /NDF:36739.4/14

1.571+/-0.014  $\chi^2$ /NDF: 36739.4/14

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.962+/-0.058  $\chi^2$ /NDF:105639.1/15

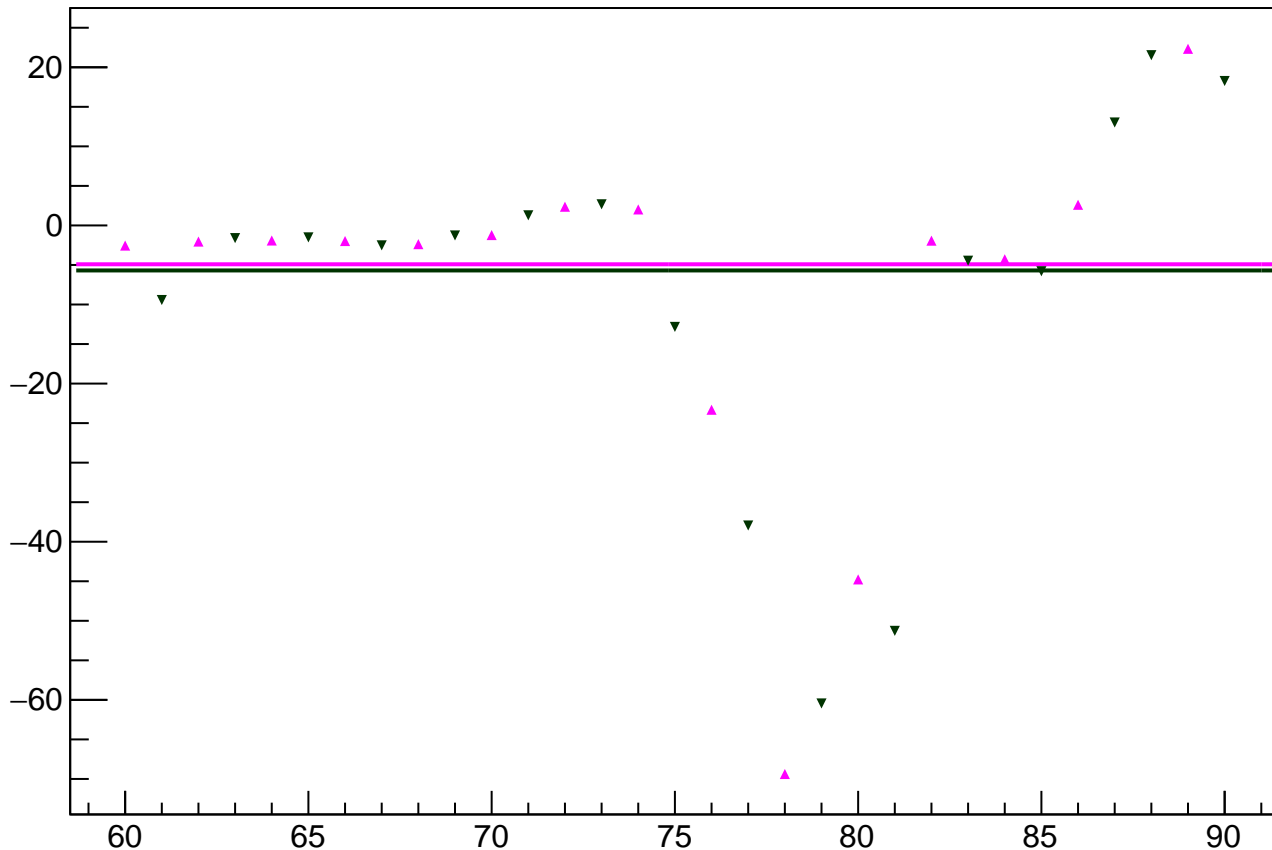
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.712+/-0.055  $\chi^2$ /NDF:81008.8/14

-13.962+/-0.058  $\chi^2$ /NDF: 105639.1/15

-11.712+/-0.055  $\chi^2$ /NDF: 81008.8/14

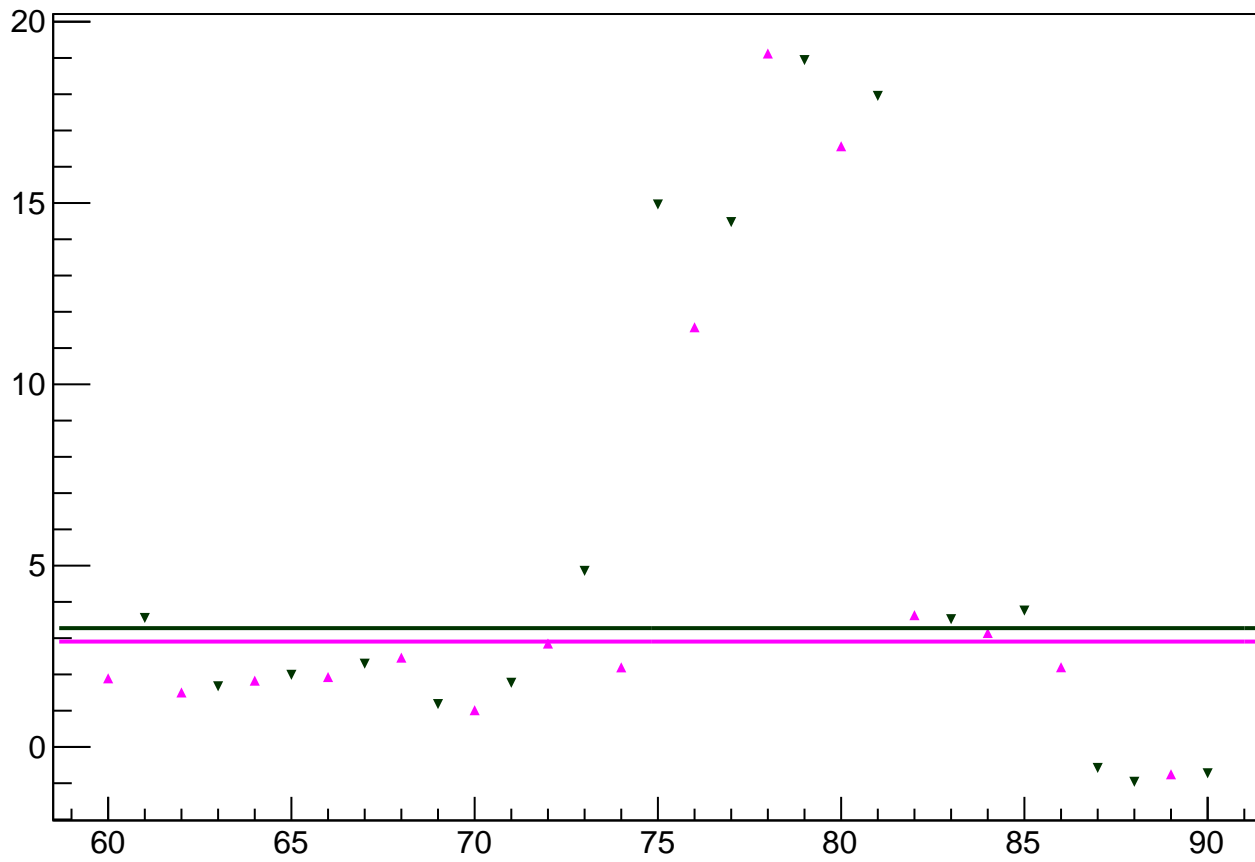
# reg\_asym\_bcm\_an\_ds\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: -5.692+/-0.071  $\chi^2$ /NDF:49899.9/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -4.913+/-0.064  $\chi^2$ /NDF:41010.7/14

-5.692+/-0.071  $\chi^2$ /NDF: 49899.9/15  
-4.913+/-0.064  $\chi^2$ /NDF: 41010.7/14

# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.276+/-0.010  $\chi^2/\text{NDF}$ :174673.6/15

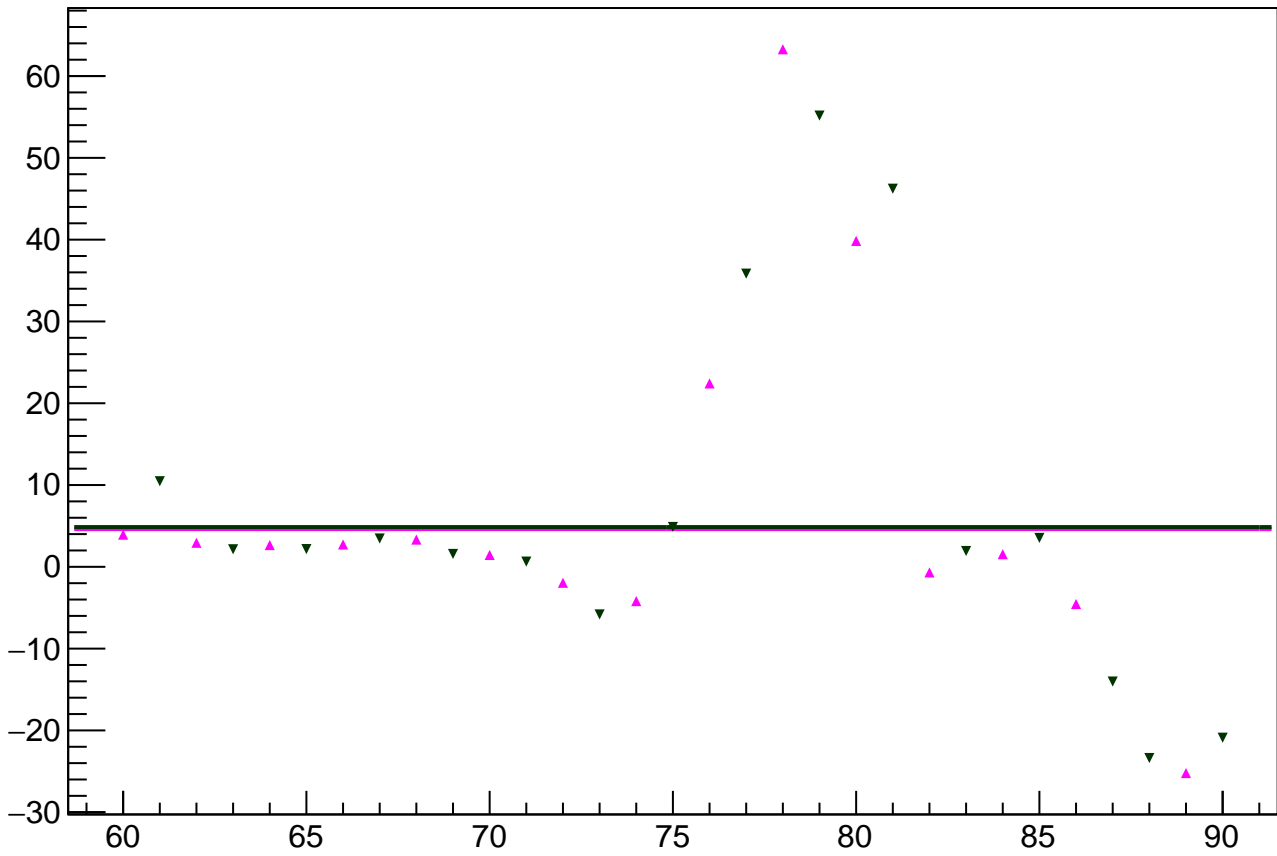
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.906+/-0.009  $\chi^2/\text{NDF}$ :135453.2/14

3.276+/-0.010  $\chi^2/\text{NDF}$ : 174673.6/15

2.906+/-0.009  $\chi^2/\text{NDF}$ : 135453.2/14

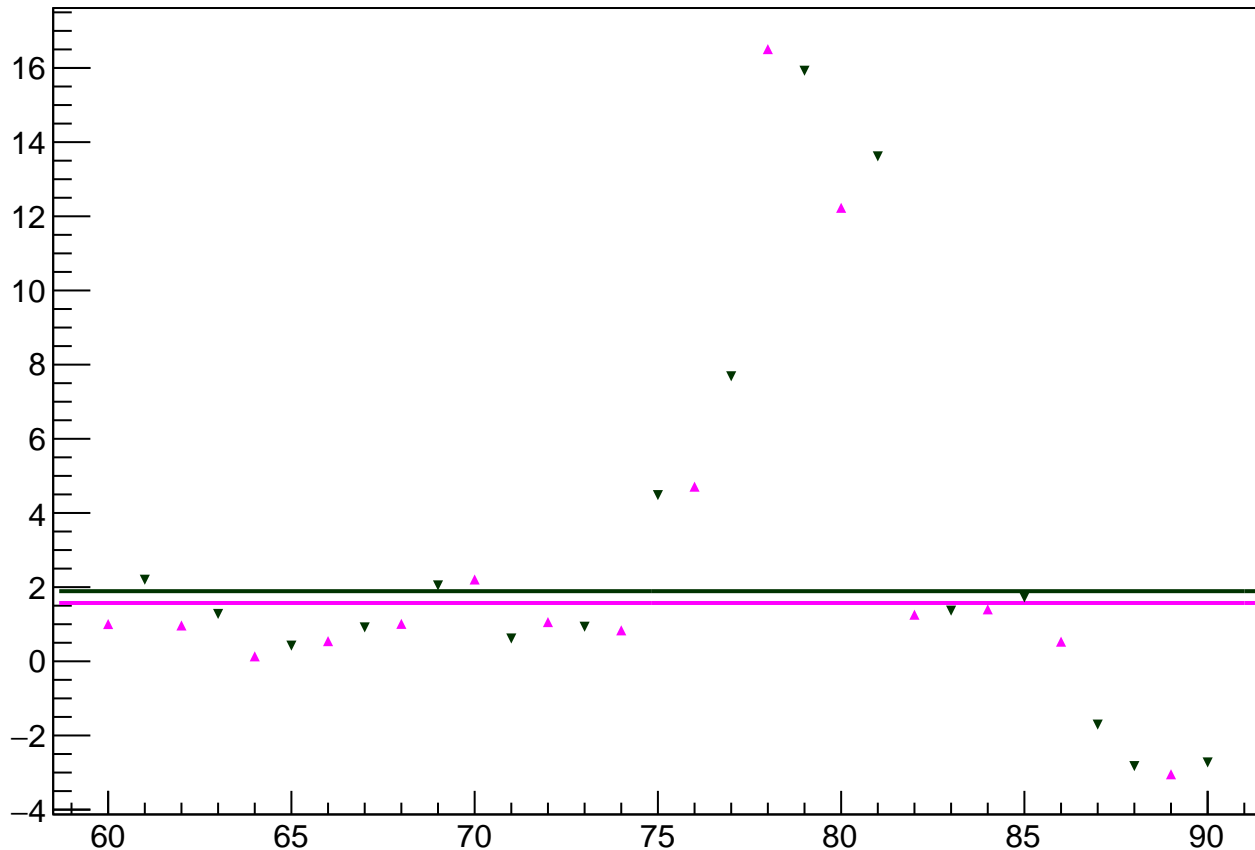
# reg\_asym\_bcm\_an\_ds\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 4.859+/-0.088  $\chi^2$ /NDF:31744.9/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 4.614+/-0.081  $\chi^2$ /NDF:25013.5/14

4.859+/-0.088  $\chi^2$ /NDF: 31744.9/15  
4.614+/-0.081  $\chi^2$ /NDF: 25013.5/14

# reg\_asym\_bcm\_an\_ds\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.891+/-0.015  $\chi^2$ /NDF:47657.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

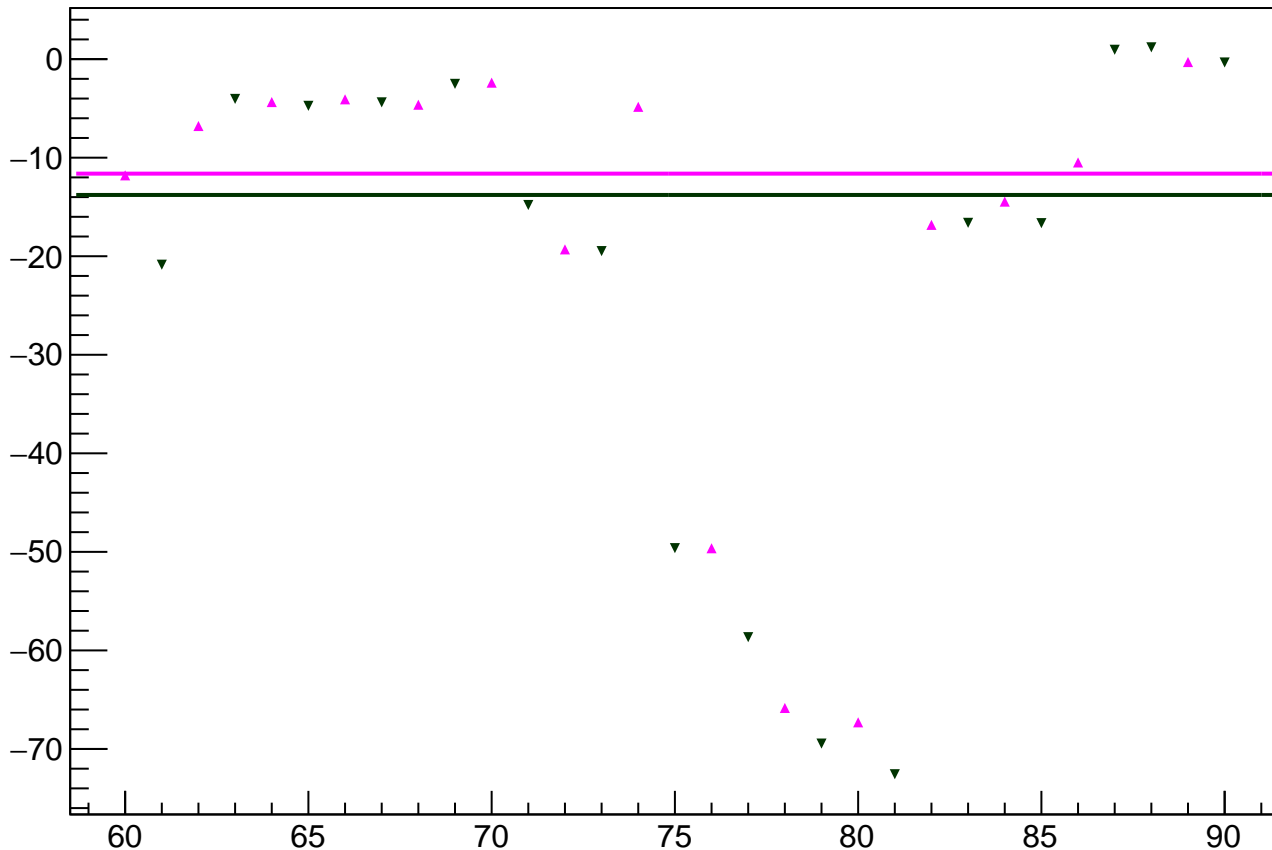
Left In: 1.573+/-0.014  $\chi^2$ /NDF:36858.3/14

1.891+/-0.015  $\chi^2$ /NDF: 47657.2/15

1.573+/-0.014  $\chi^2$ /NDF: 36858.3/14



# reg\_asym\_bcm\_an\_us\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.783+/-0.057  $\chi^2$ /NDF:107794.9/15

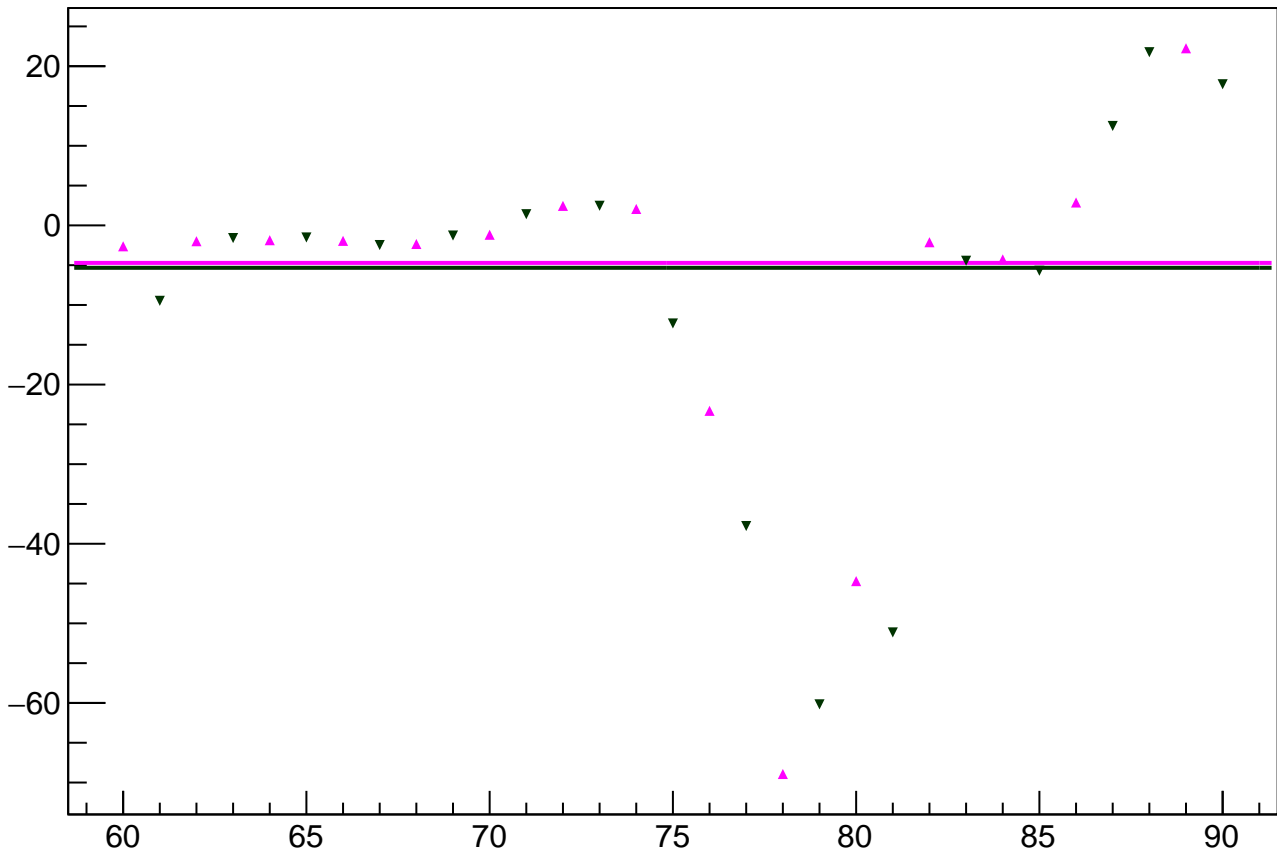
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.619+/-0.053  $\chi^2$ /NDF:83440.2/14

-13.783+/-0.057  $\chi^2$ /NDF: 107794.9/15

-11.619+/-0.053  $\chi^2$ /NDF: 83440.2/14

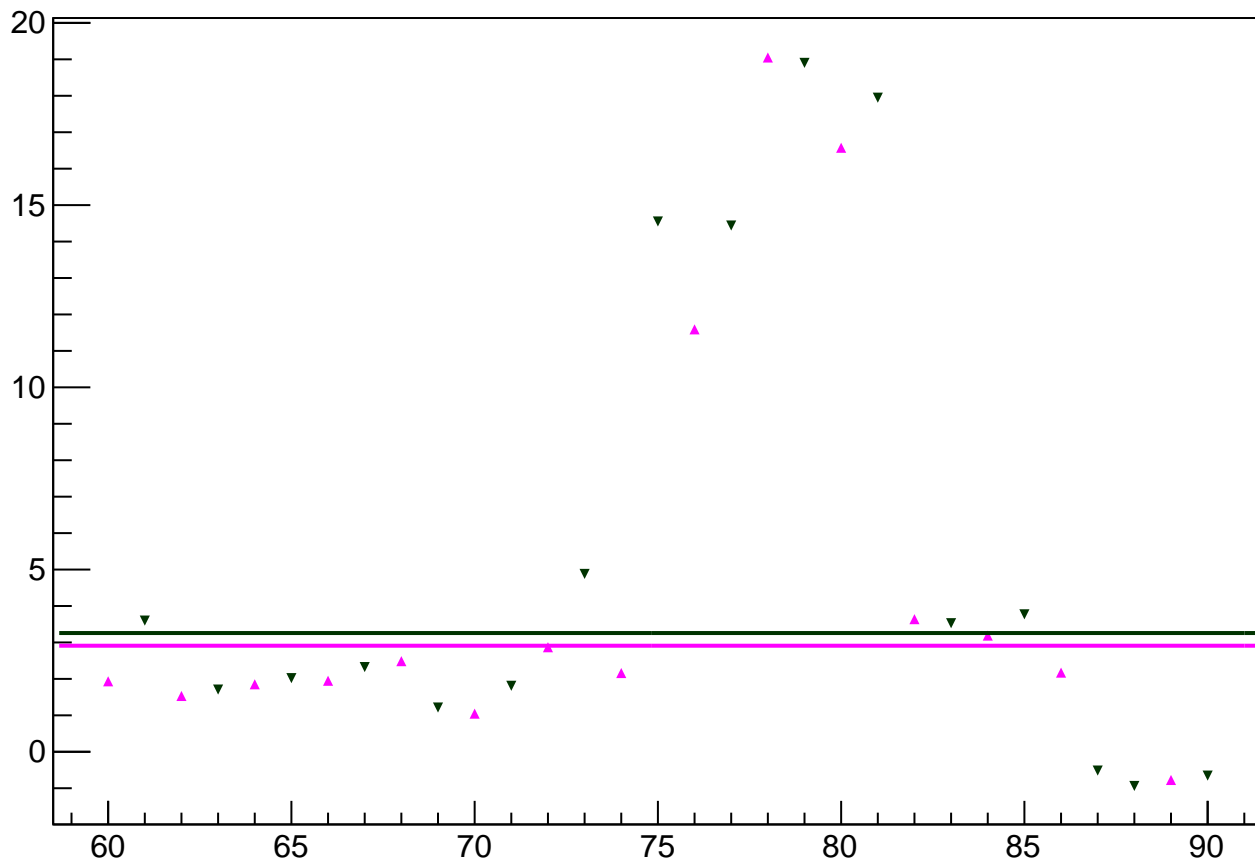
# reg\_asym\_bcm\_an\_us\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: -5.330+/-0.069  $\chi^2$ /NDF:51527.3/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -4.714+/-0.062  $\chi^2$ /NDF:42632.8/14

-5.330+/-0.069  $\chi^2$ /NDF: 51527.3/15  
-4.714+/-0.062  $\chi^2$ /NDF: 42632.8/14

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 3.258+/-0.010  $\chi^2/\text{NDF}$ :178469.7/15

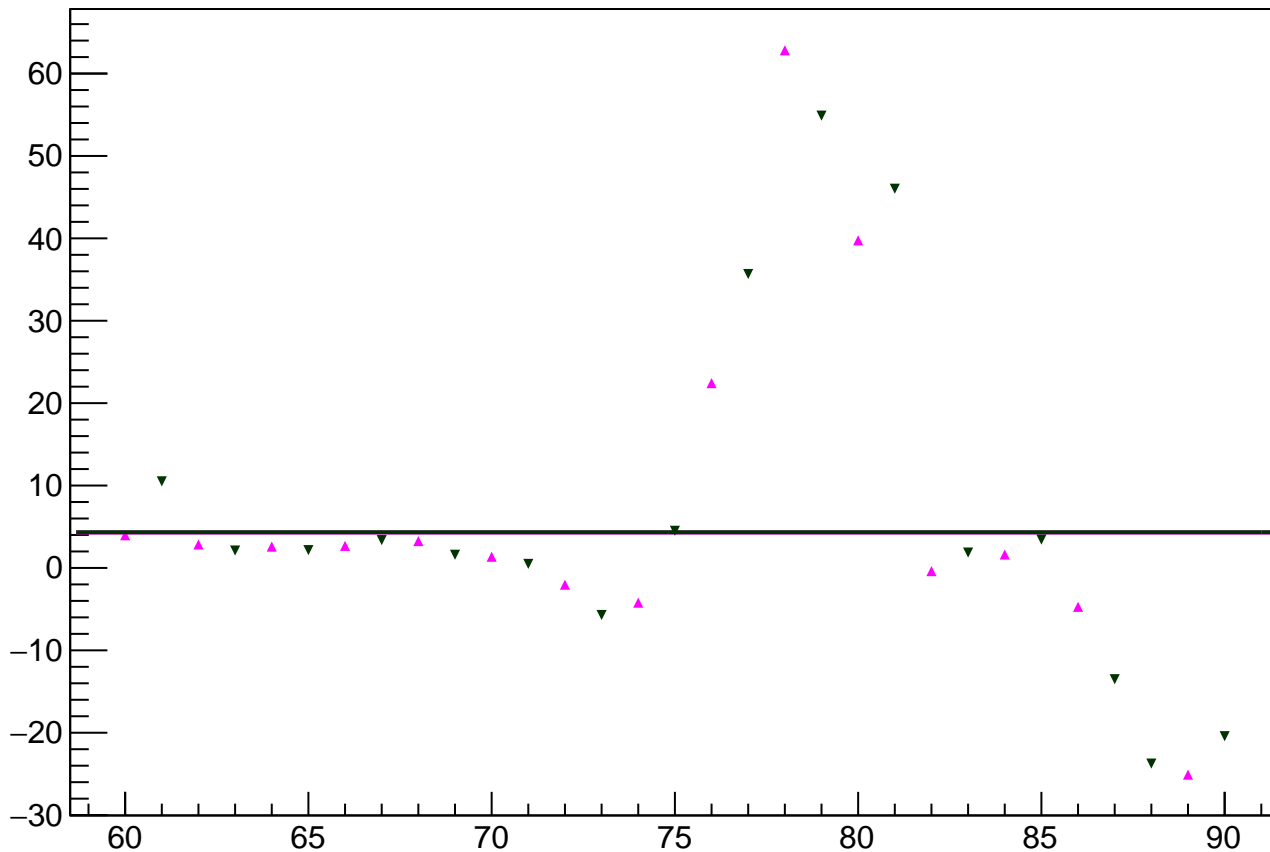
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.910+/-0.009  $\chi^2/\text{NDF}$ :139412.6/14

3.258+/-0.010  $\chi^2/\text{NDF}$ : 178469.7/15

2.910+/-0.009  $\chi^2/\text{NDF}$ : 139412.6/14

# reg\_asym\_bcm\_an\_us\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 4.331+/-0.086  $\chi^2/\text{NDF}$ : 33214.1/15

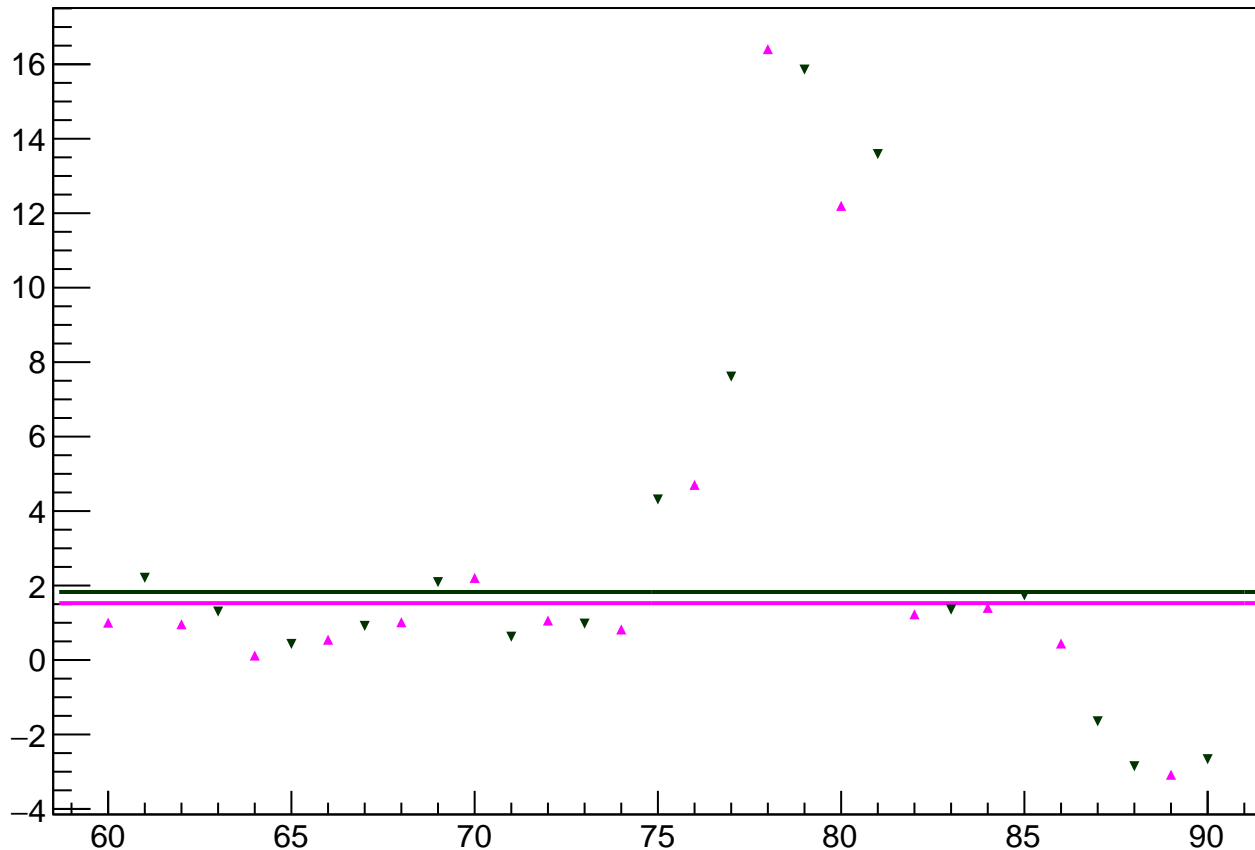
4.331+/-0.086  $\chi^2/\text{NDF}$ : 33214.1/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.296+/-0.079  $\chi^2/\text{NDF}$ : 26292.7/14

4.296+/-0.079  $\chi^2/\text{NDF}$ : 26292.7/14

# reg\_asym\_bcm\_an\_us\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.827+/-0.015  $\chi^2$ /NDF:49148.3/15

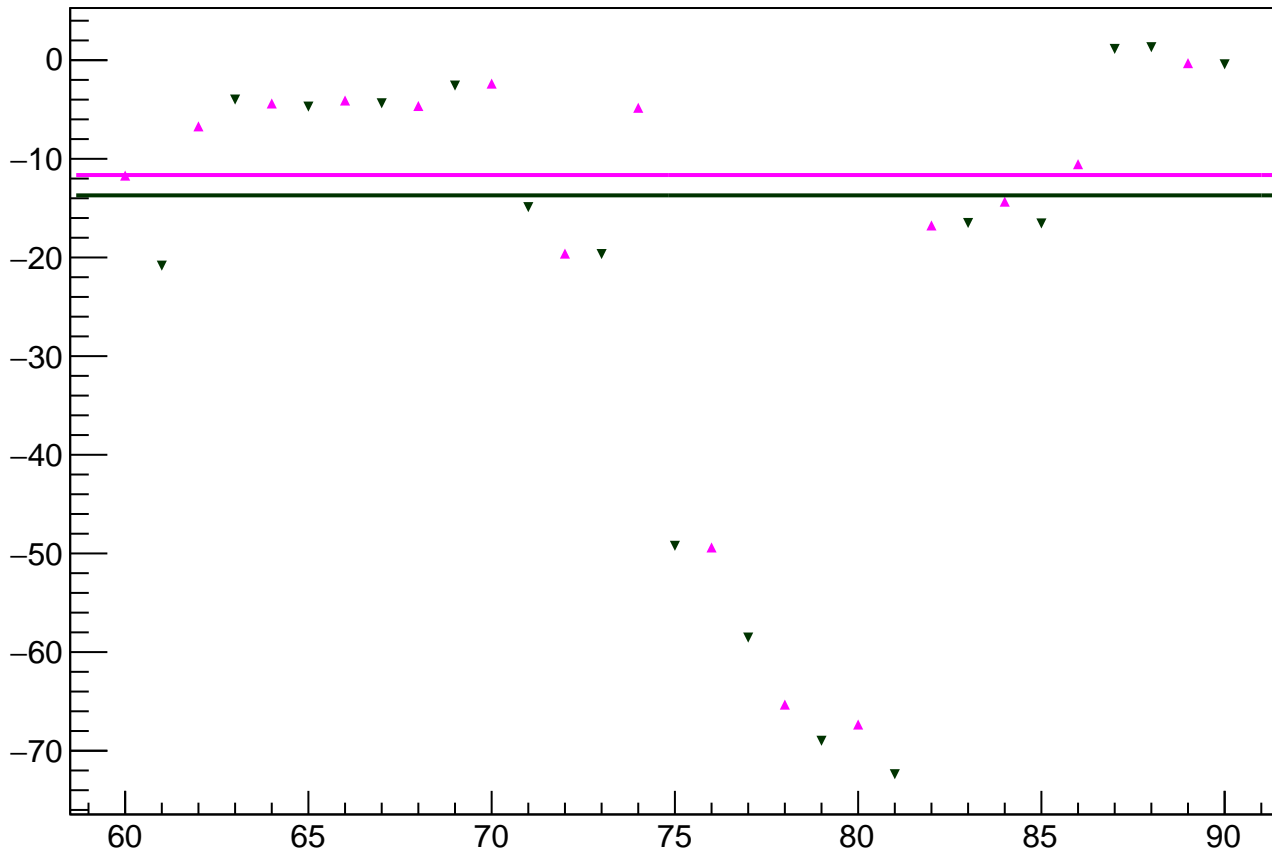
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.527+/-0.013  $\chi^2$ /NDF:38315.8/14

1.827+/-0.015  $\chi^2$ /NDF: 49148.3/15

1.527+/-0.013  $\chi^2$ /NDF: 38315.8/14

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.704+/-0.056  $\chi^2$ /NDF:108166.0/15

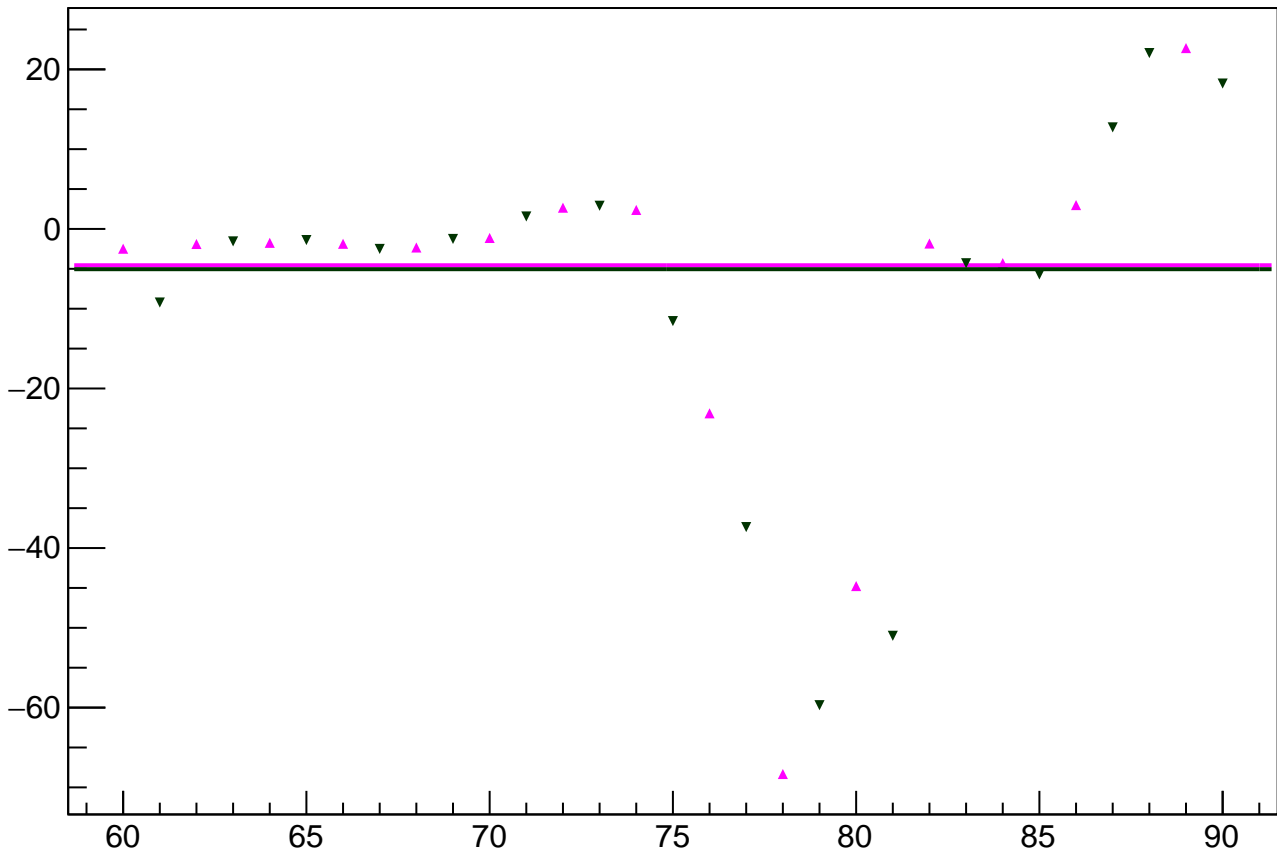
-13.704+/-0.056  $\chi^2$ /NDF: 108166.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.644+/-0.053  $\chi^2$ /NDF:83889.6/14

-11.644+/-0.053  $\chi^2$ /NDF: 83889.6/14

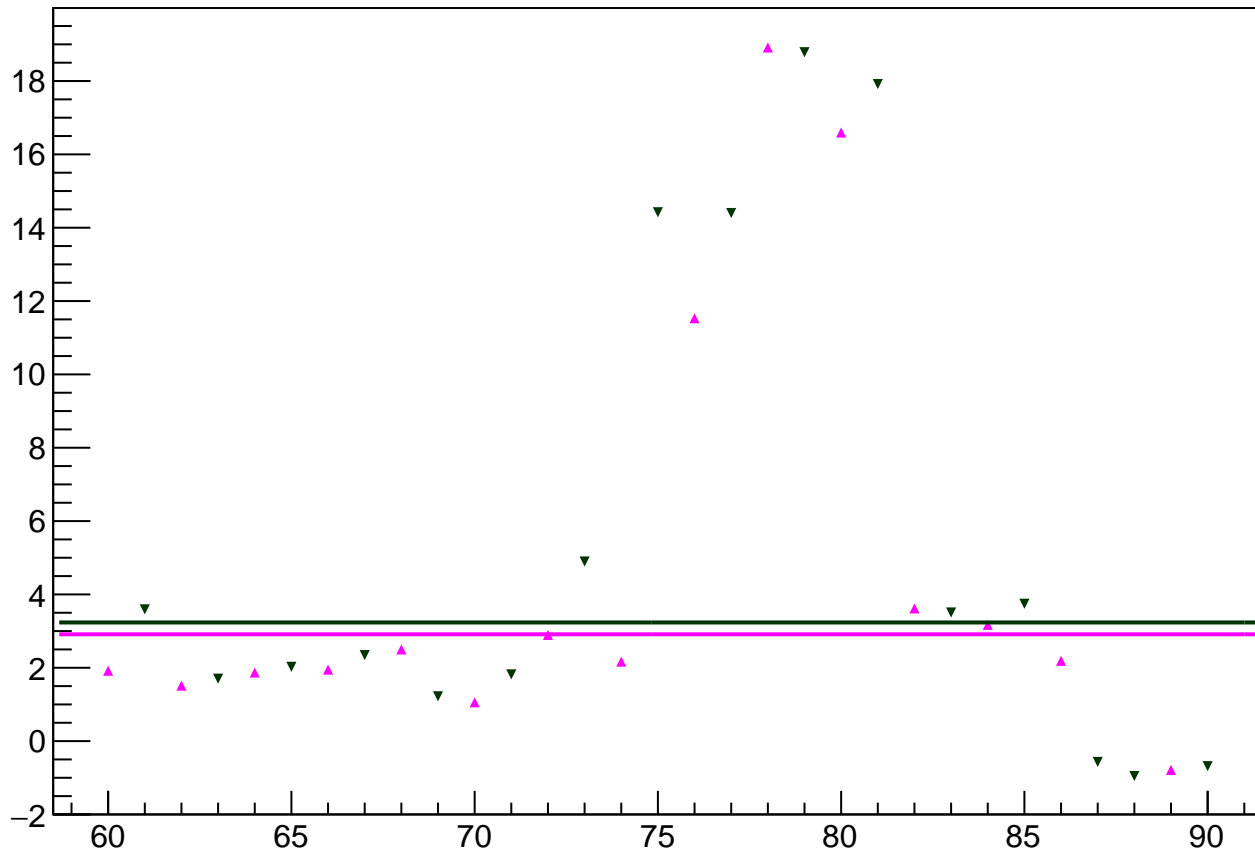
# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: -5.046+/-0.069  $\chi^2$ /NDF:52384.0/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -4.553+/-0.062  $\chi^2$ /NDF:43473.8/14

-5.046+/-0.069  $\chi^2$ /NDF: 52384.0/15  
-4.553+/-0.062  $\chi^2$ /NDF: 43473.8/14

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.235+/-0.010  $\chi^2$ /NDF:179595.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

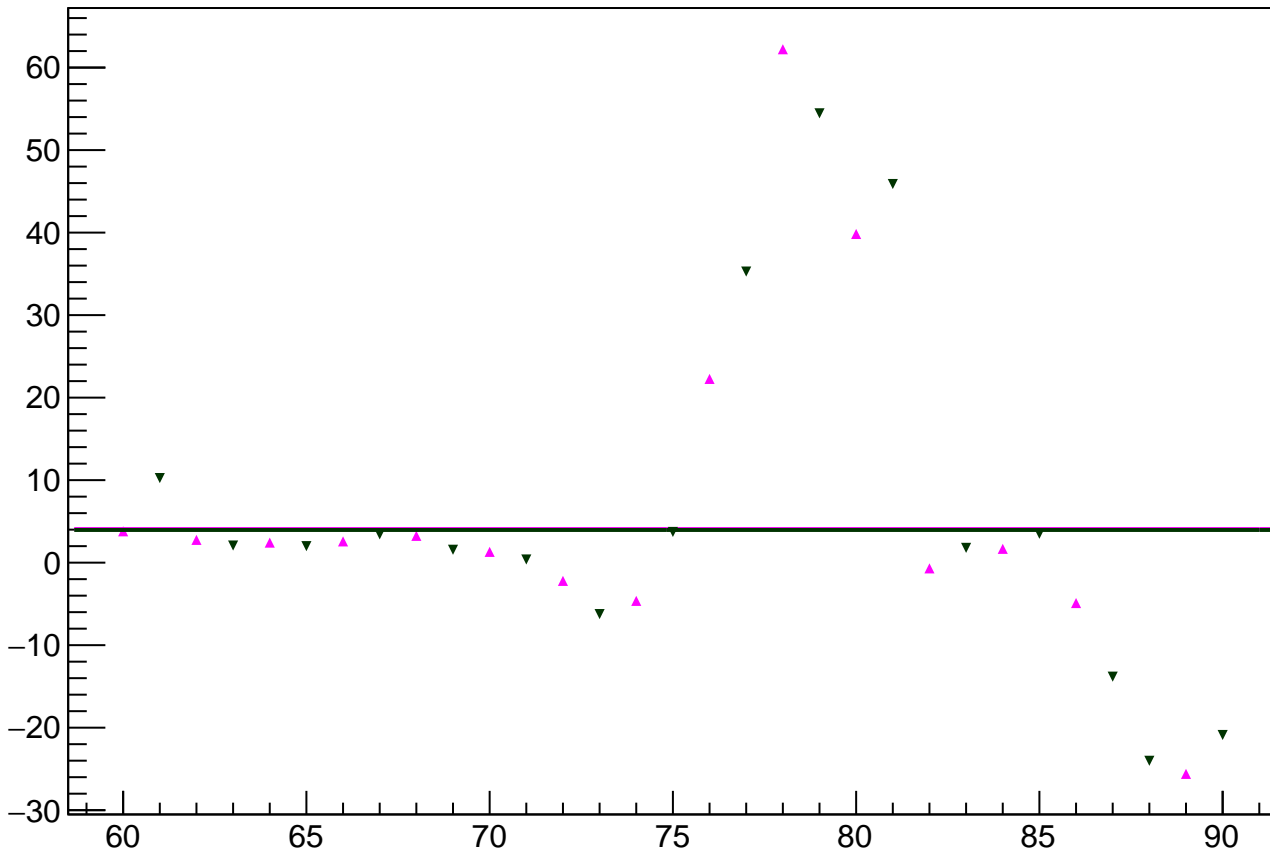
Left In: 2.913+/-0.009  $\chi^2$ /NDF:140426.5/14

3.235+/-0.010  $\chi^2$ /NDF: 179595.8/15

2.913+/-0.009  $\chi^2$ /NDF: 140426.5/14



# reg\_asym\_bcm\_dg\_ds\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.963+/-0.085  $\chi^2$ /NDF:34099.2/15

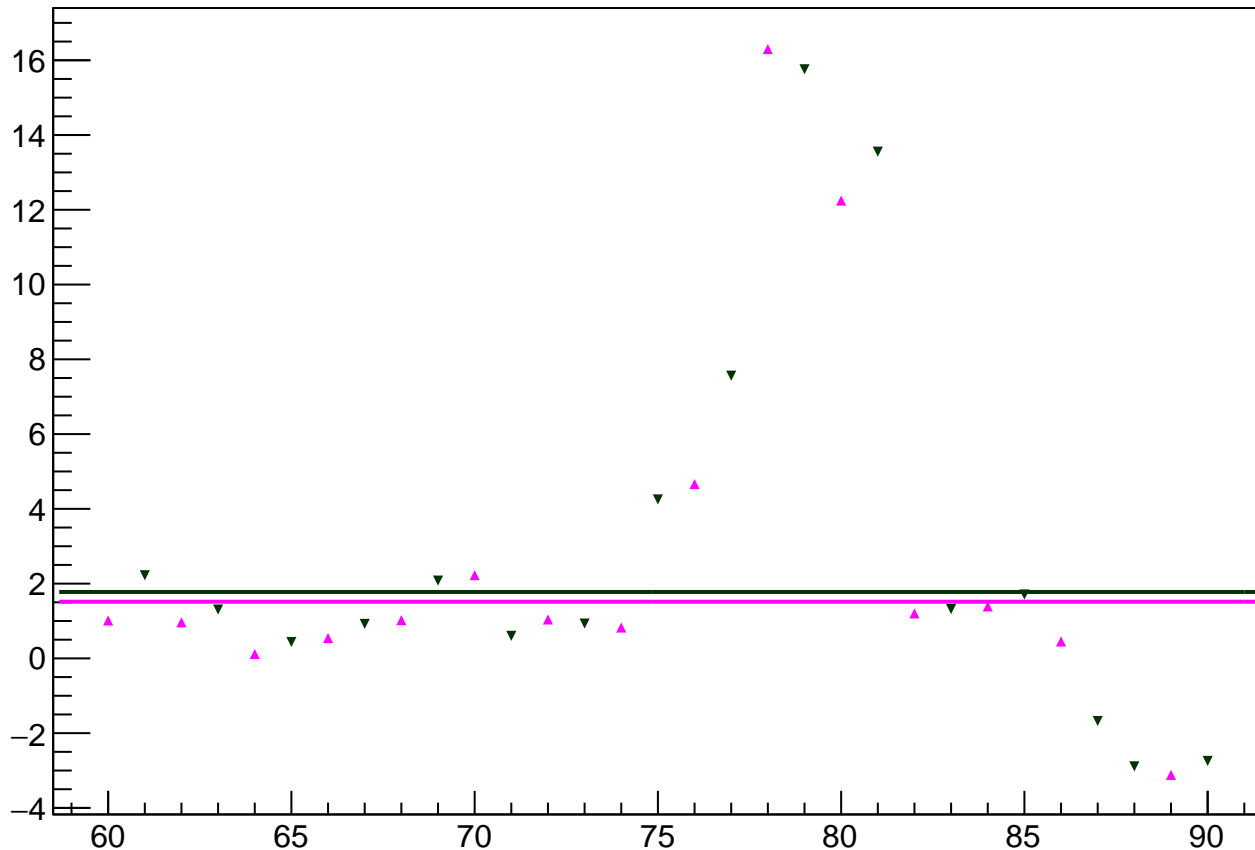
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 4.072+/-0.079  $\chi^2$ /NDF:27044.2/14

3.963+/-0.085  $\chi^2$ /NDF: 34099.2/15

4.072+/-0.079  $\chi^2$ /NDF: 27044.2/14

# reg\_asym\_bcm\_dg\_ds\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.777+/-0.015  $\chi^2$ /NDF:50053.1/15

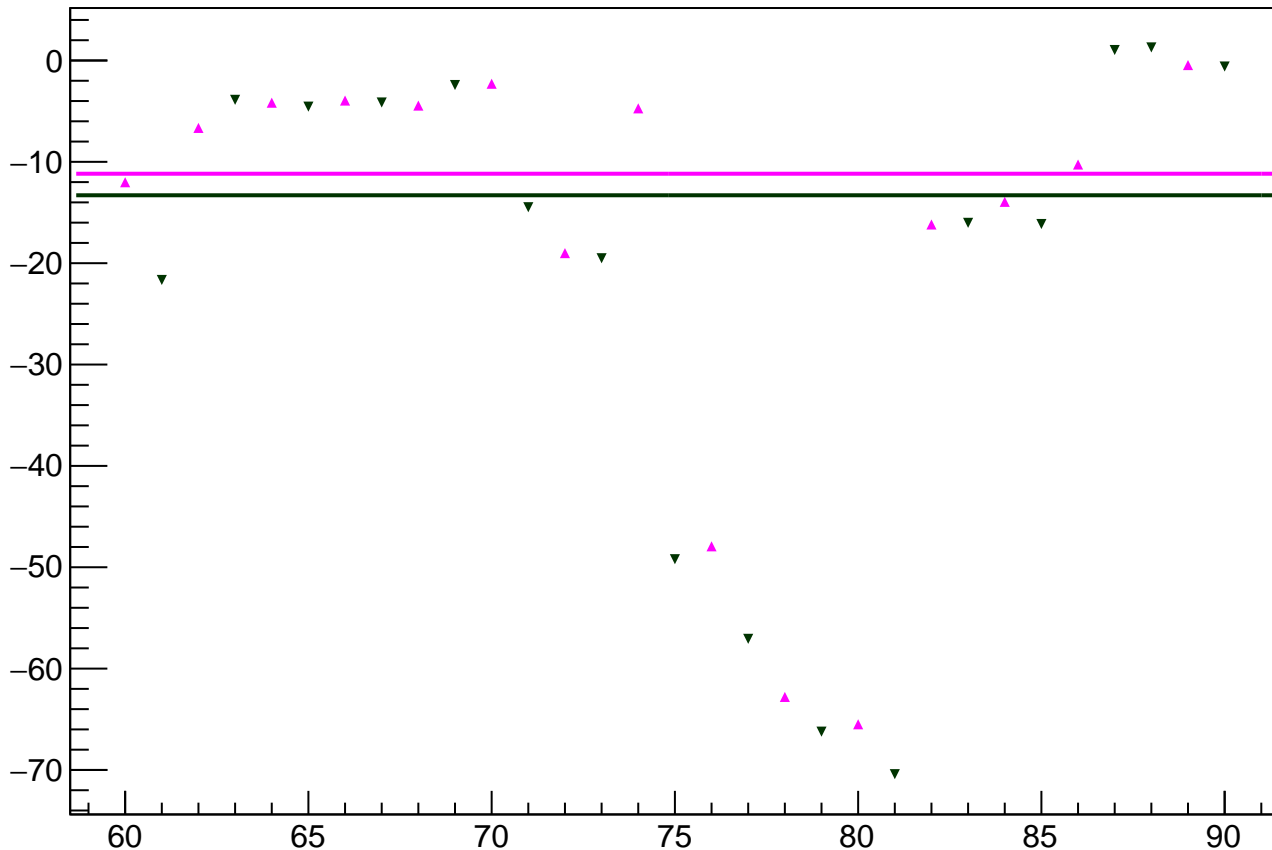
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.516+/-0.013  $\chi^2$ /NDF:38958.7/14

1.777+/-0.015  $\chi^2$ /NDF: 50053.1/15

1.516+/-0.013  $\chi^2$ /NDF: 38958.7/14

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -13.298+/-0.056  $\chi^2$ /NDF:104920.0/15

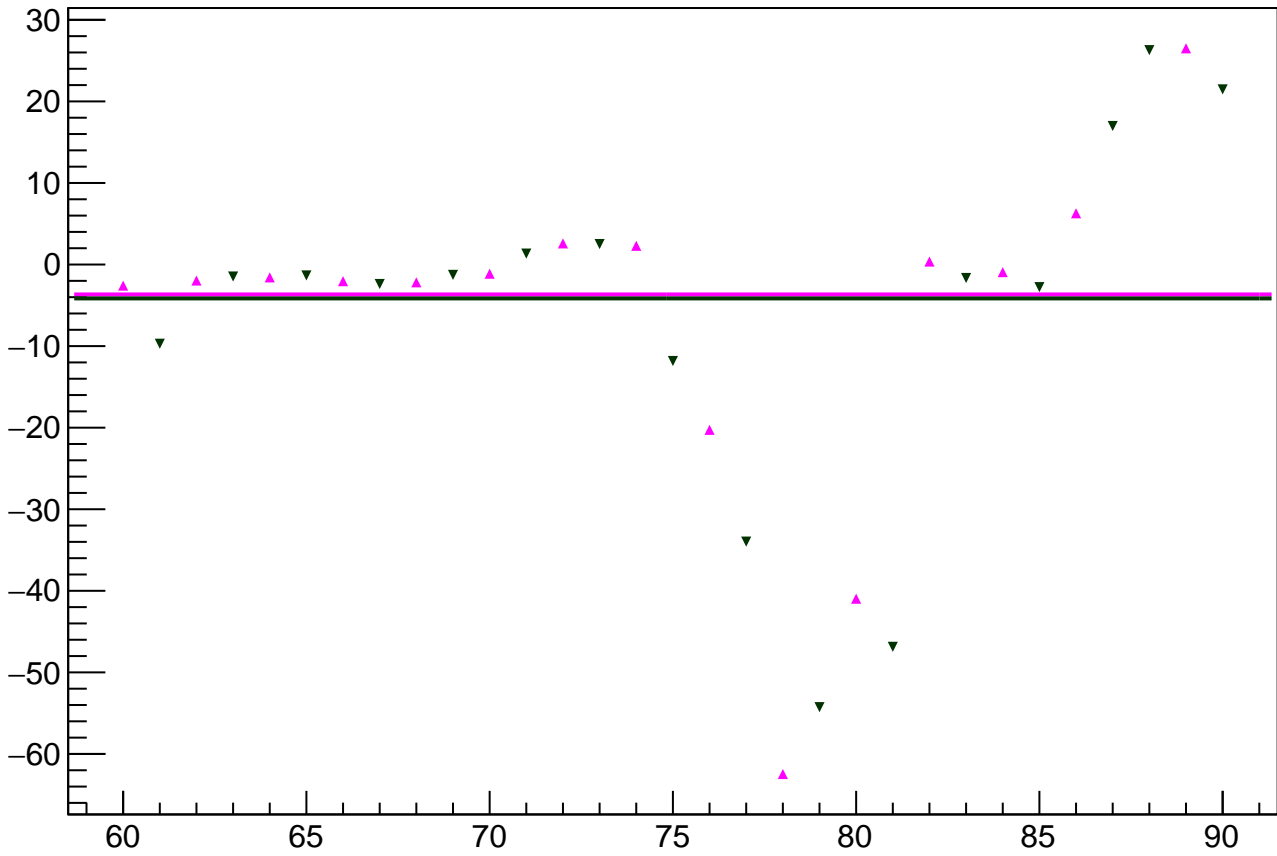
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -11.173+/-0.053  $\chi^2$ /NDF:80185.4/14

-13.298+/-0.056  $\chi^2$ /NDF: 104920.0/15

-11.173+/-0.053  $\chi^2$ /NDF: 80185.4/14

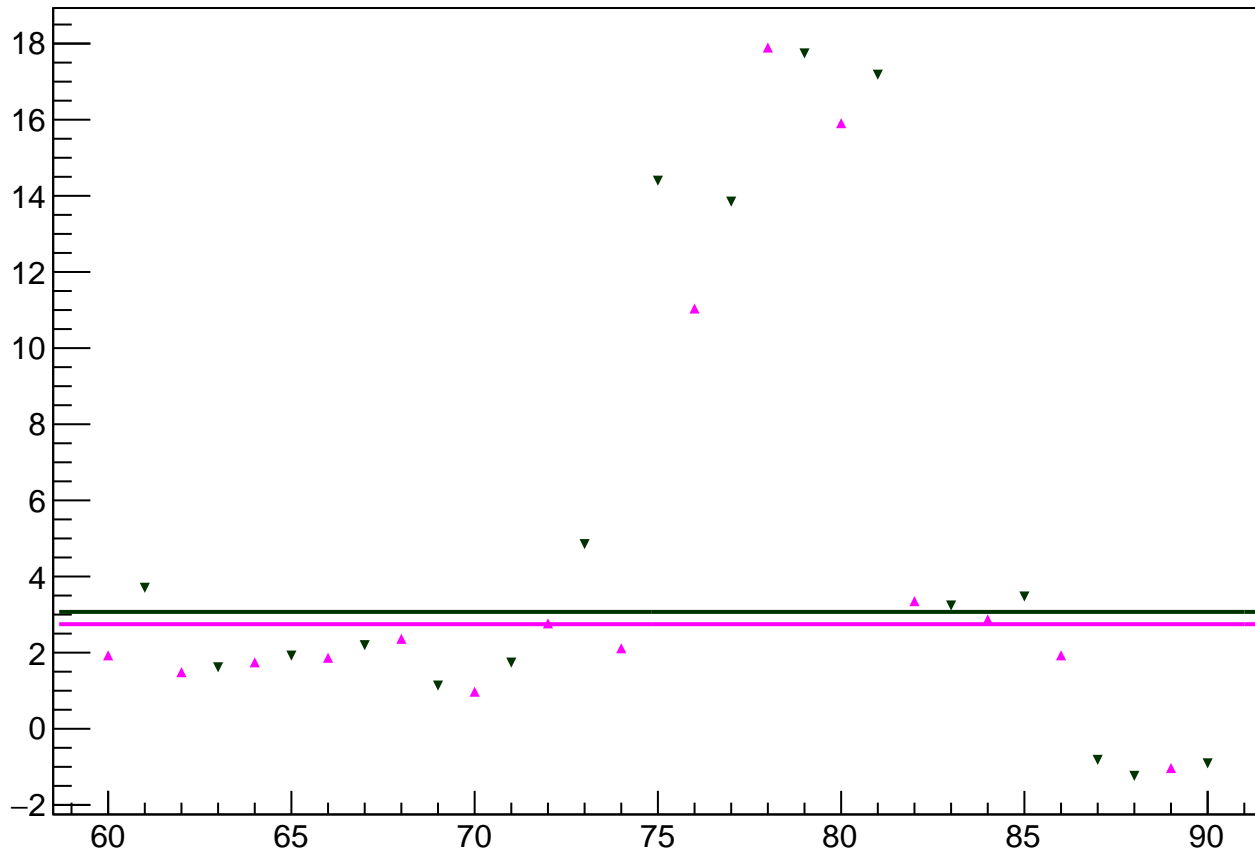
# reg\_asym\_bcm\_dg\_us\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: -4.152+/-0.068  $\chi^2$ /NDF:48537.1/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: -3.667+/-0.062  $\chi^2$ /NDF:39114.4/14

-4.152+/-0.068  $\chi^2$ /NDF: 48537.1/15  
-3.667+/-0.062  $\chi^2$ /NDF: 39114.4/14

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 3.070+/-0.010  $\chi^2$ /NDF:170677.3/15

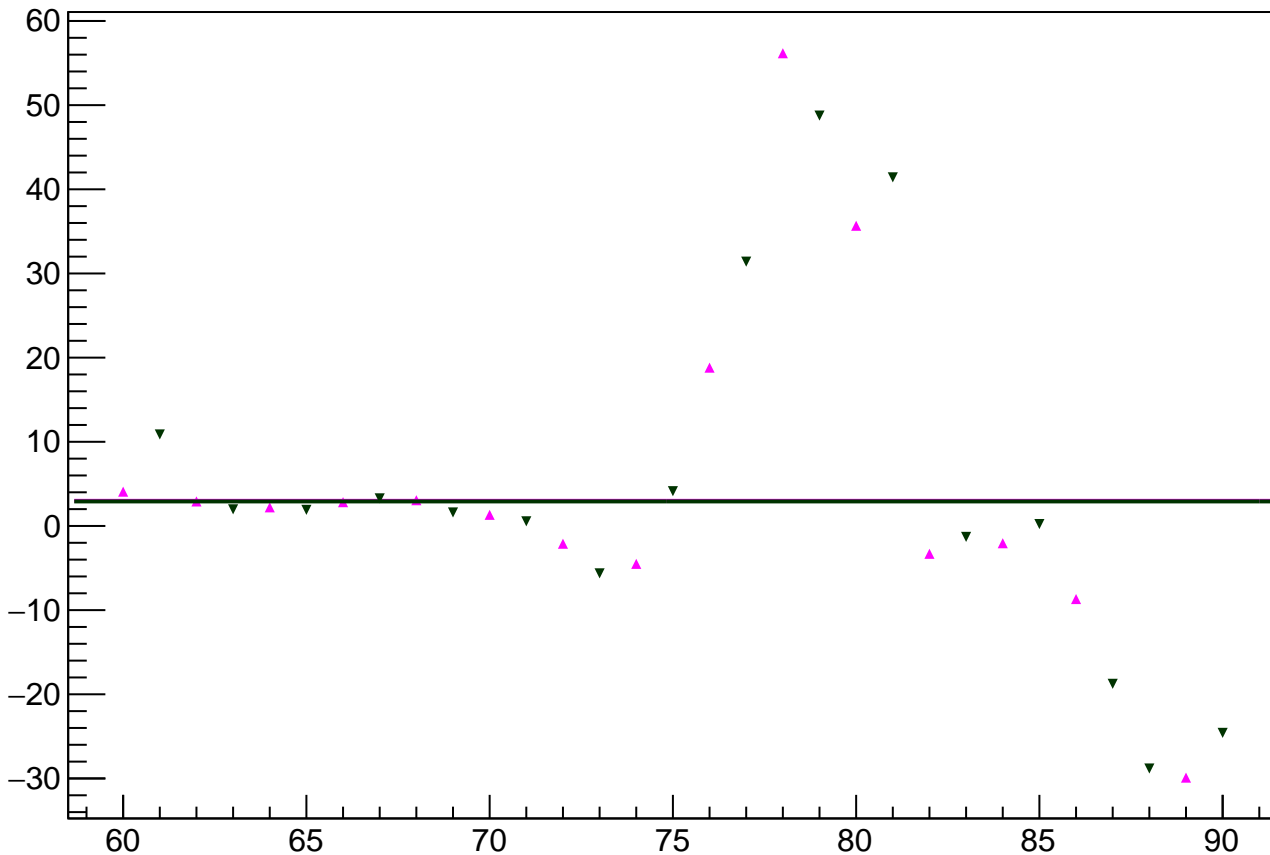
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.748+/-0.009  $\chi^2$ /NDF:130258.7/14

3.070+/-0.010  $\chi^2$ /NDF: 170677.3/15

2.748+/-0.009  $\chi^2$ /NDF: 130258.7/14

# reg\_asym\_bcm\_dg\_us\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 2.917+/-0.085  $\chi^2$ /NDF:32159.4/15

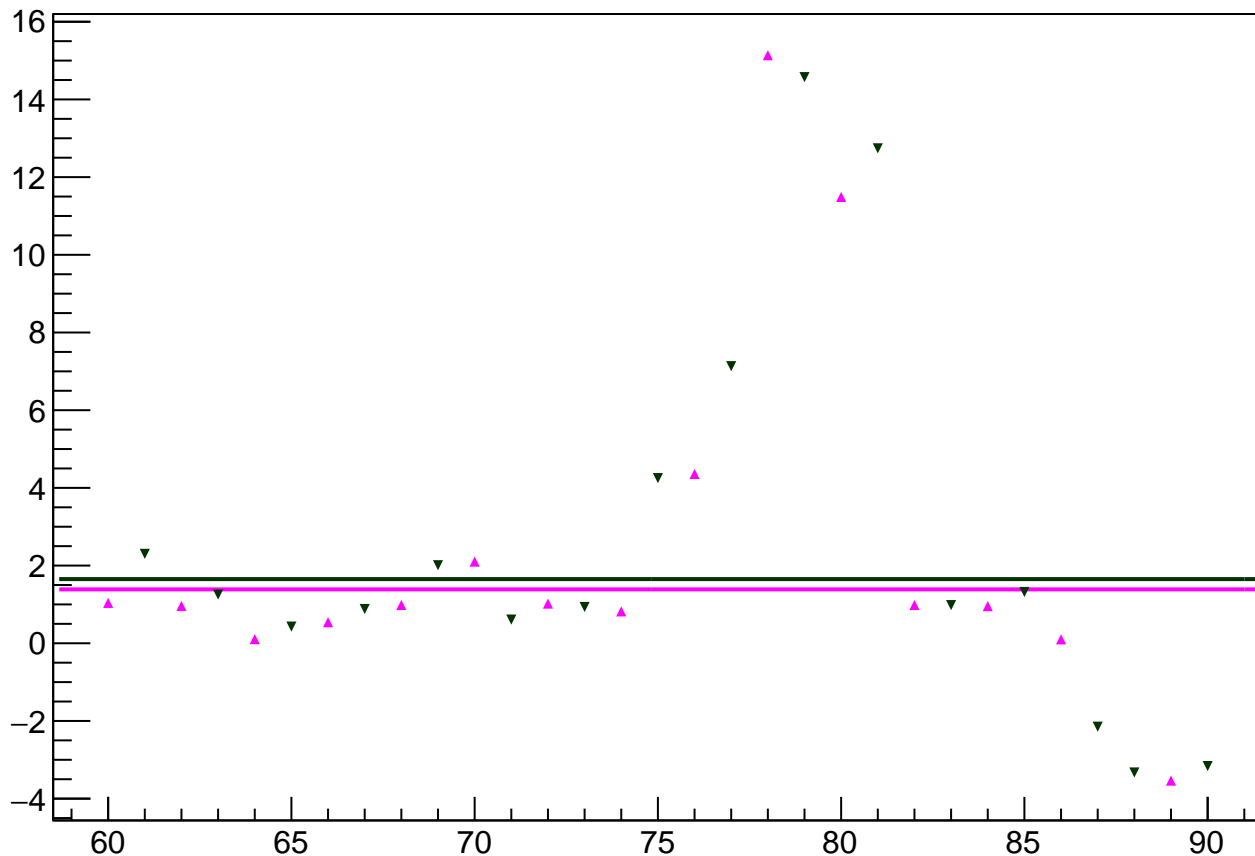
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.986+/-0.079  $\chi^2$ /NDF:24860.2/14

2.917+/-0.085  $\chi^2$ /NDF: 32159.4/15

2.986+/-0.079  $\chi^2$ /NDF: 24860.2/14

# reg\_asym\_bcm\_dg\_us\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 1.652+/-0.015  $\chi^2$ /NDF:46871.4/15

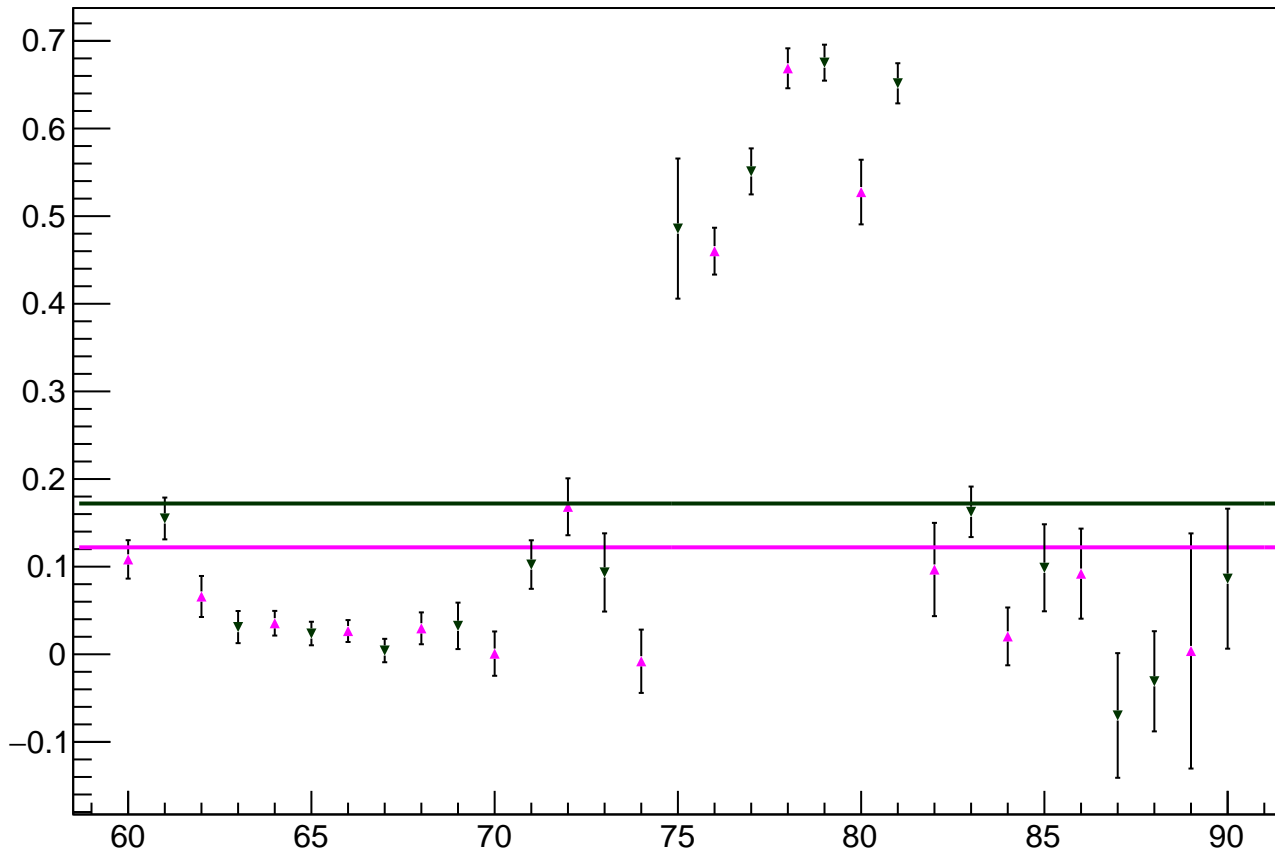
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.387+/-0.013  $\chi^2$ /NDF:35598.6/14

1.652+/-0.015  $\chi^2$ /NDF: 46871.4/15

1.387+/-0.013  $\chi^2$ /NDF: 35598.6/14

# reg\_bcm\_an\_us\_ds3\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.172+/-0.006  $\chi^2$ /NDF:1667.0/15

0.172+/-0.006  $\chi^2$ /NDF: 1667.0/15

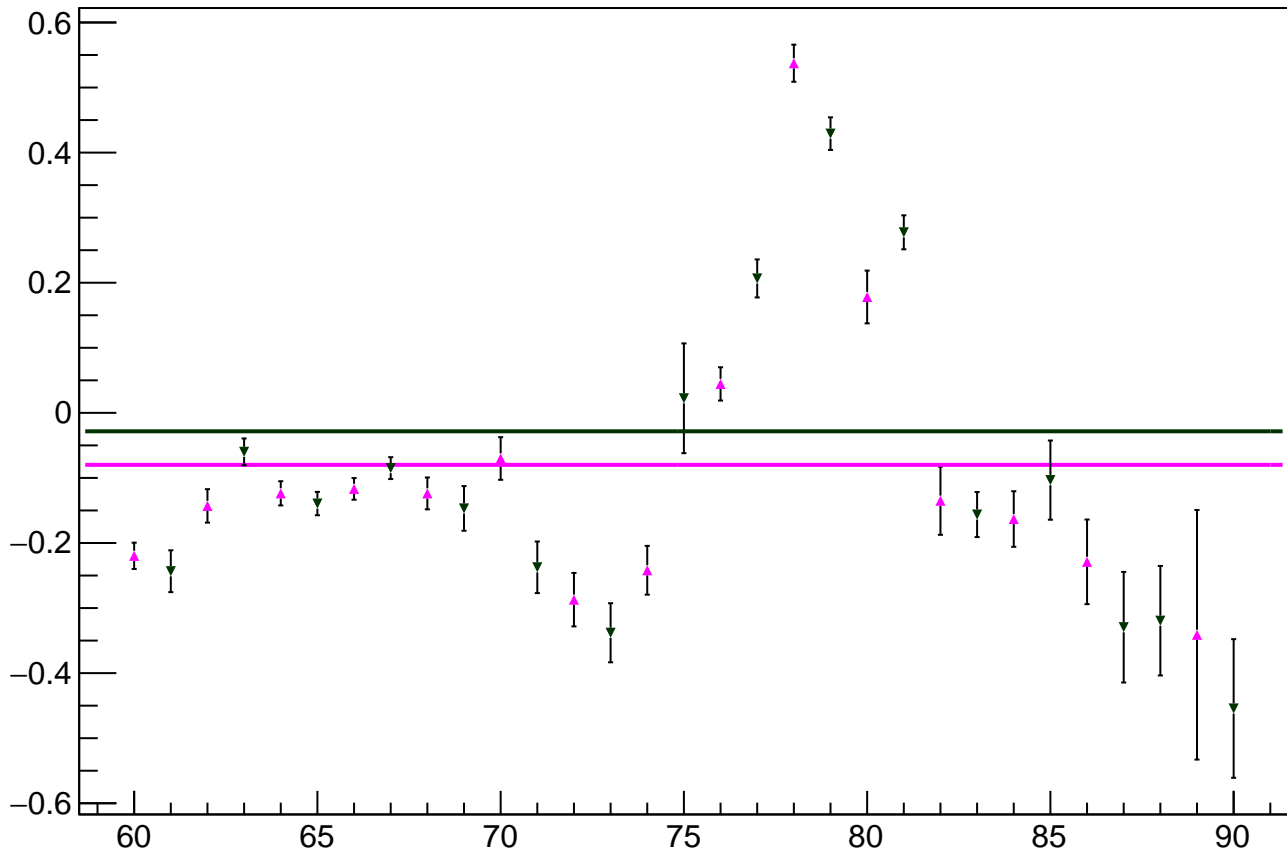
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.122+/-0.006  $\chi^2$ /NDF:1033.2/14

0.122+/-0.006  $\chi^2$ /NDF: 1033.2/14



# reg\_bcm\_an\_us\_ds3\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.028+/-0.007  $\chi^2$ /NDF:773.9/15

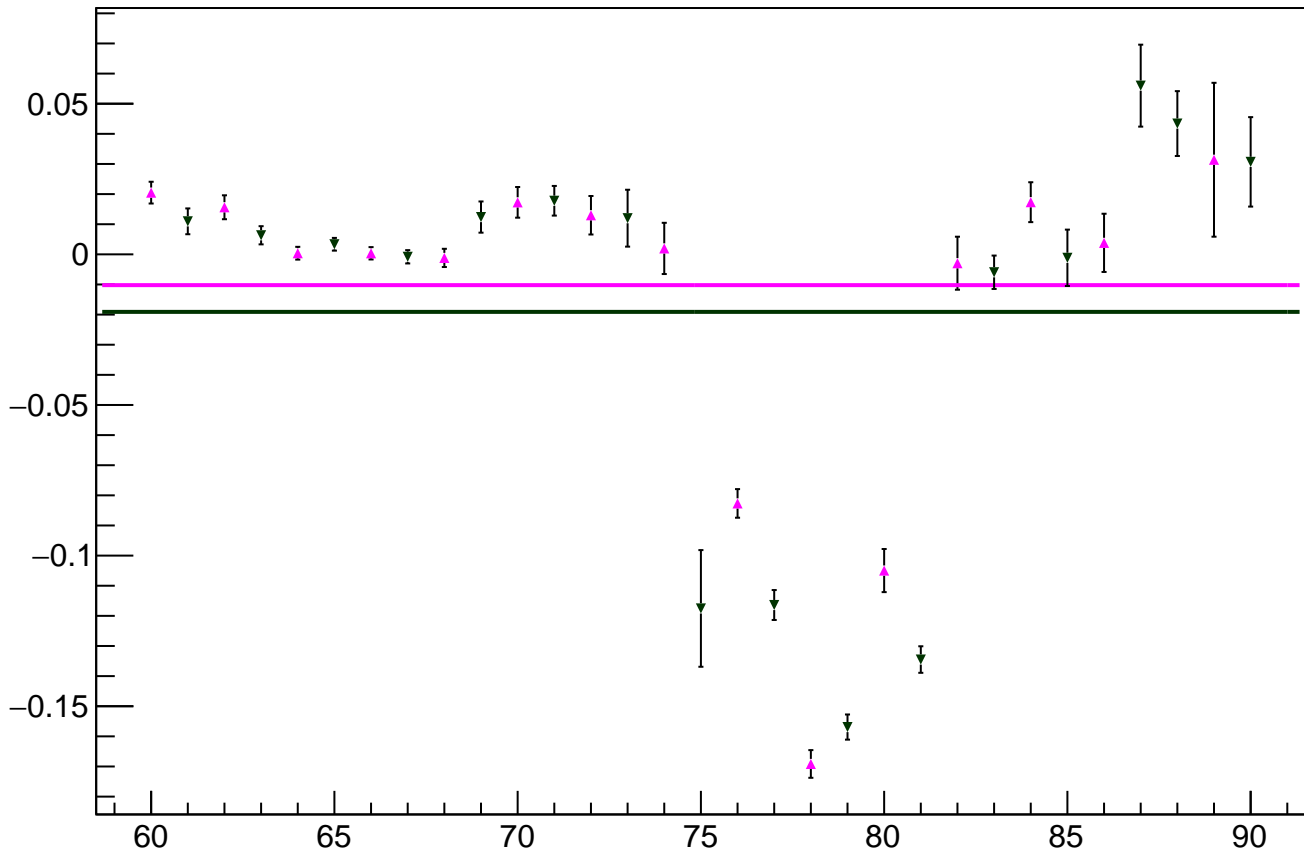
-0.028+/-0.007  $\chi^2$ /NDF: 773.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.080+/-0.007  $\chi^2$ /NDF:656.9/14

-0.080+/-0.007  $\chi^2$ /NDF: 656.9/14

# reg\_bcm\_an\_us\_ds3\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.019+/-0.001  $\chi^2$ /NDF:2675.5/15

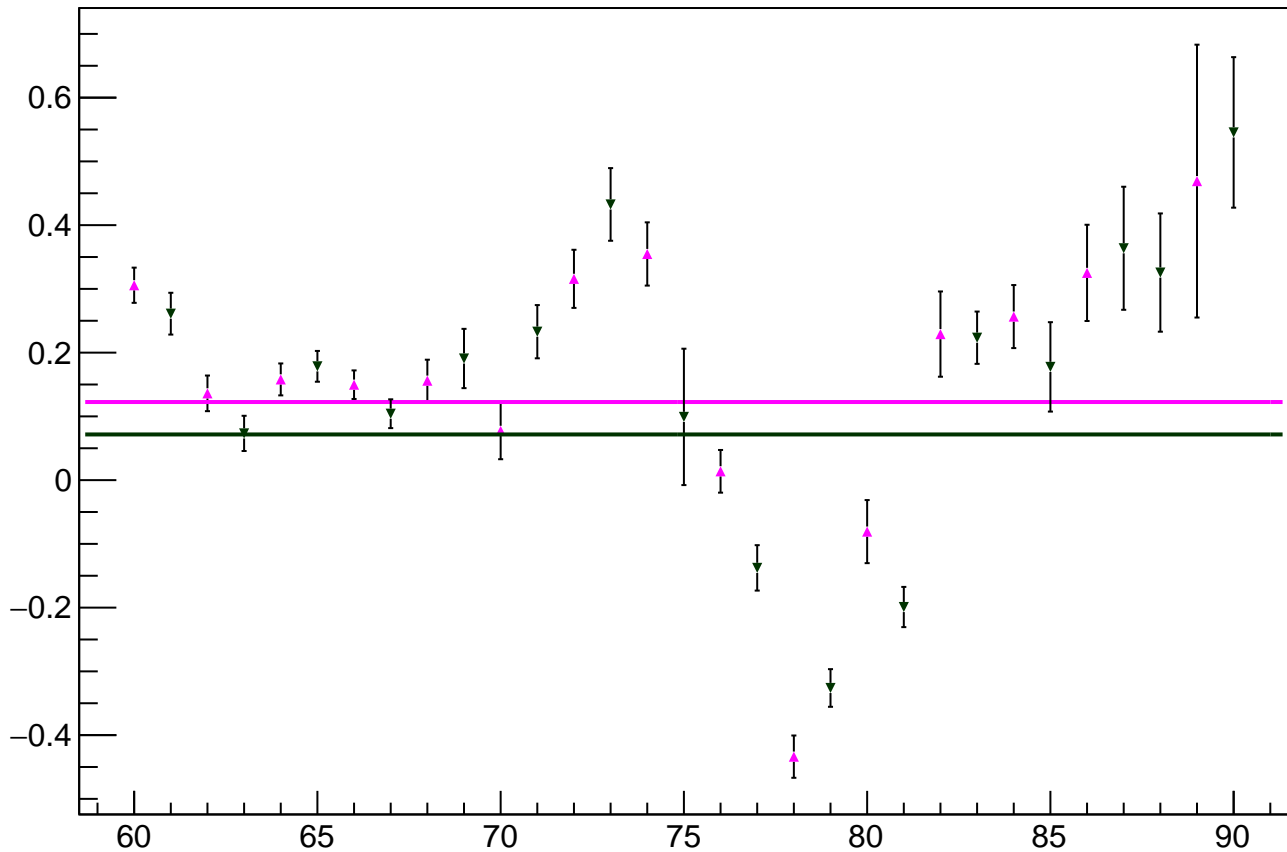
-0.019+/-0.001  $\chi^2$ /NDF: 2675.5/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.010+/-0.001  $\chi^2$ /NDF:1846.3/14

-0.010+/-0.001  $\chi^2$ /NDF: 1846.3/14

# reg\_bcm\_an\_us\_ds3\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.072+/-0.009  $\chi^2$ /NDF:454.8/15

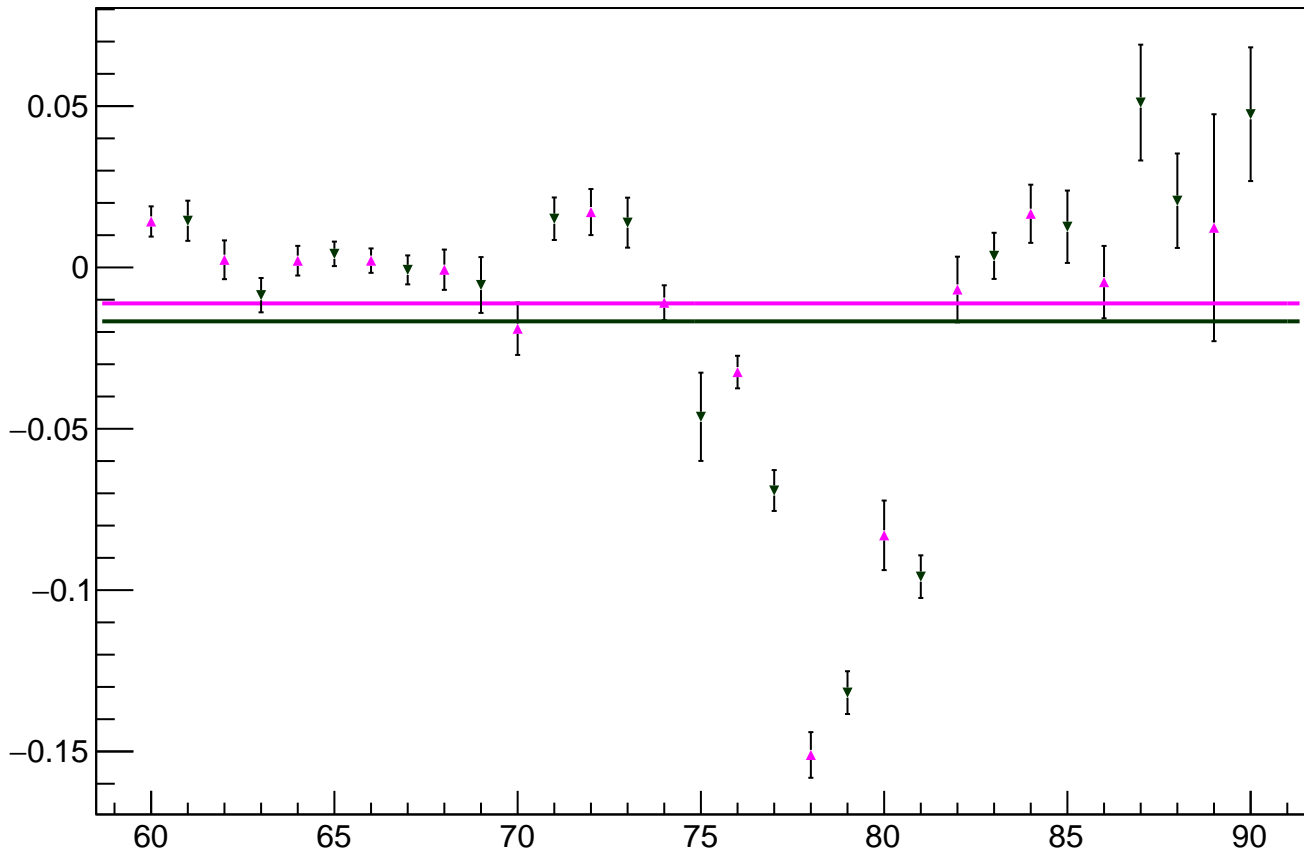
0.072+/-0.009  $\chi^2$ /NDF: 454.8/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.123+/-0.009  $\chi^2$ /NDF:418.0/14

0.123+/-0.009  $\chi^2$ /NDF: 418.0/14

# reg\_bcm\_an\_us\_ds3\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.017+/-0.002  $\chi^2$ /NDF:674.1/15

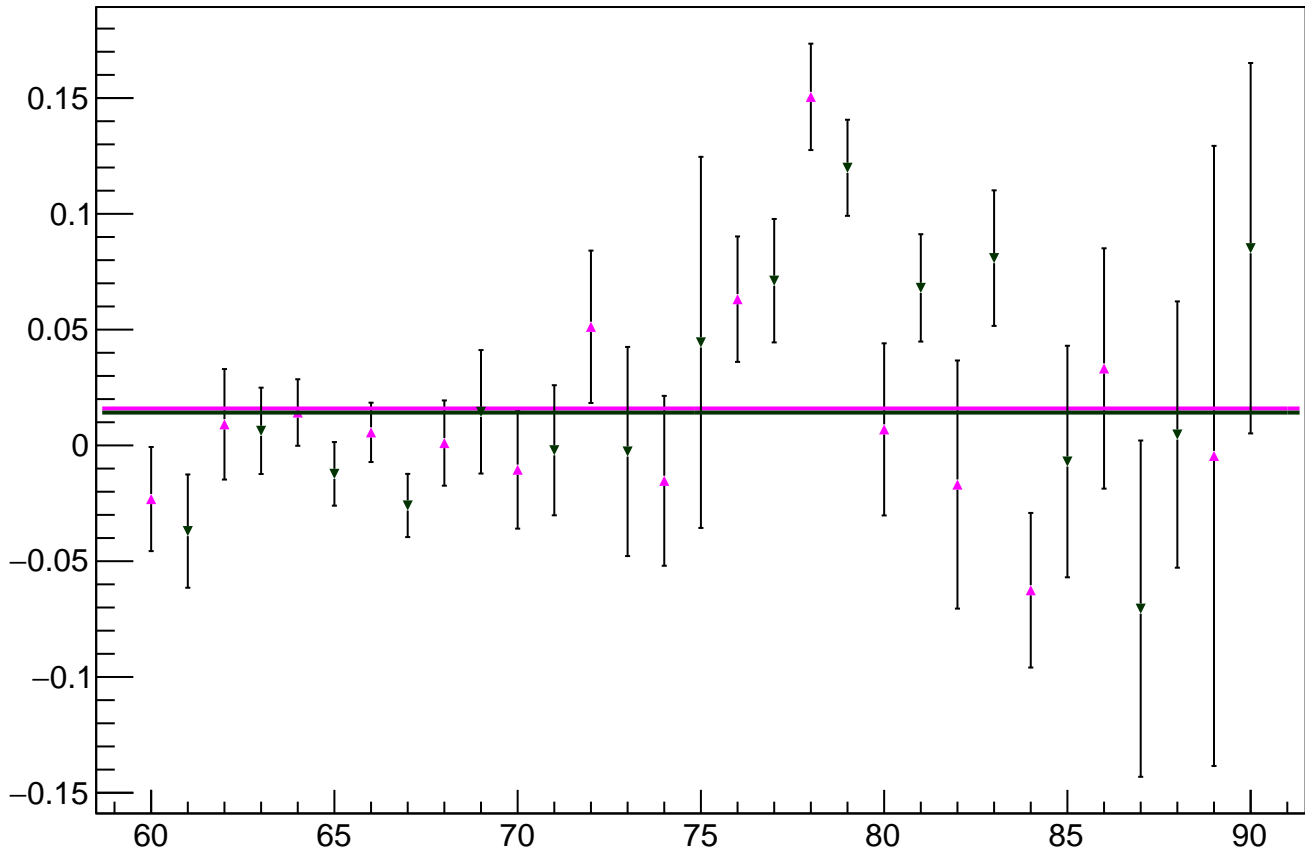
-0.017+/-0.002  $\chi^2$ /NDF: 674.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.011+/-0.002  $\chi^2$ /NDF:538.1/14

-0.011+/-0.002  $\chi^2$ /NDF: 538.1/14

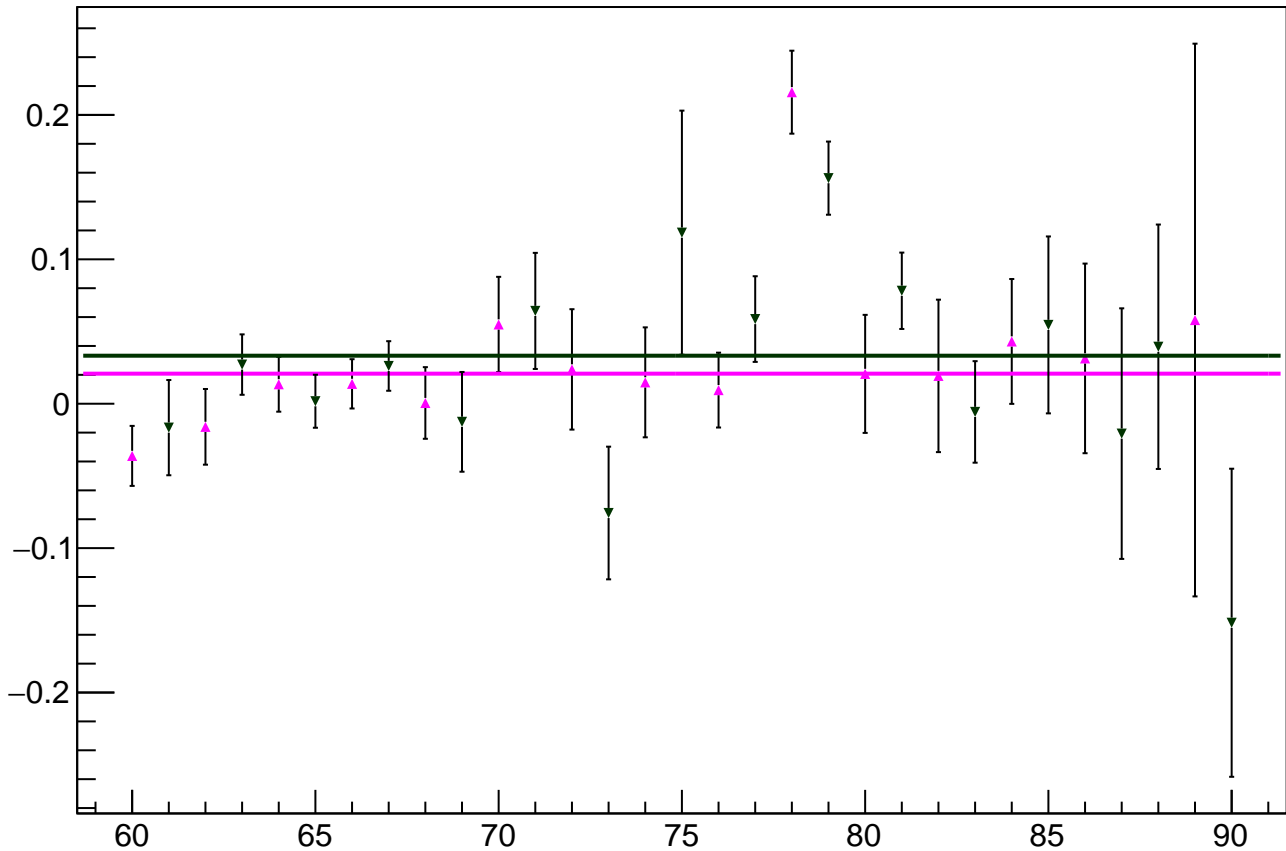
# reg\_bcm\_an\_us\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.014+/-0.006  $\chi^2$ /NDF:61.0/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.016+/-0.006  $\chi^2$ /NDF:50.8/14

0.014+/-0.006  $\chi^2$ /NDF: 61.0/15  
0.016+/-0.006  $\chi^2$ /NDF: 50.8/14

# reg\_bcm\_an\_us\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.033+/-0.008  $\chi^2$ /NDF:46.4/15

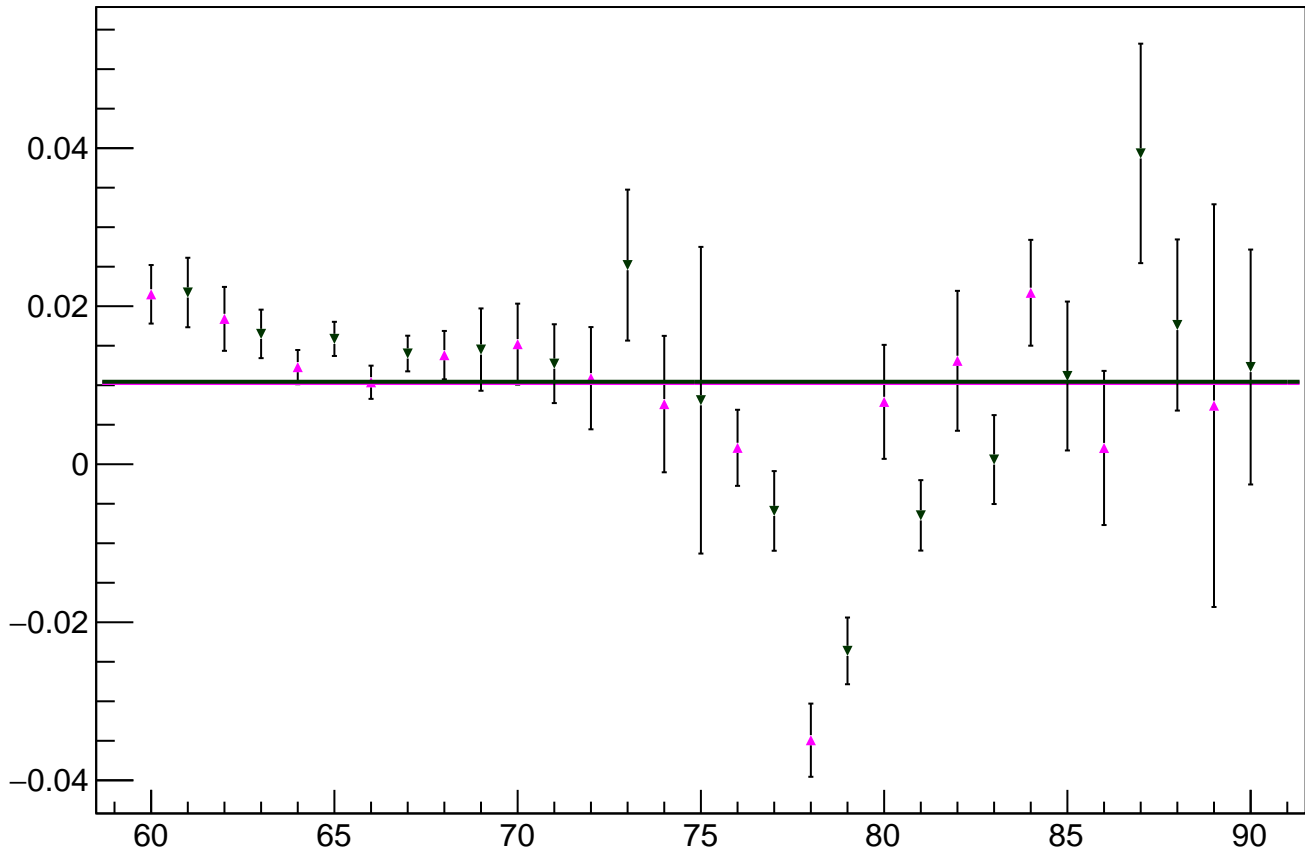
0.033+/-0.008  $\chi^2$ /NDF: 46.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.021+/-0.007  $\chi^2$ /NDF: 58.1/14

Left In: 0.021+/-0.007  $\chi^2$ /NDF:58.1/14

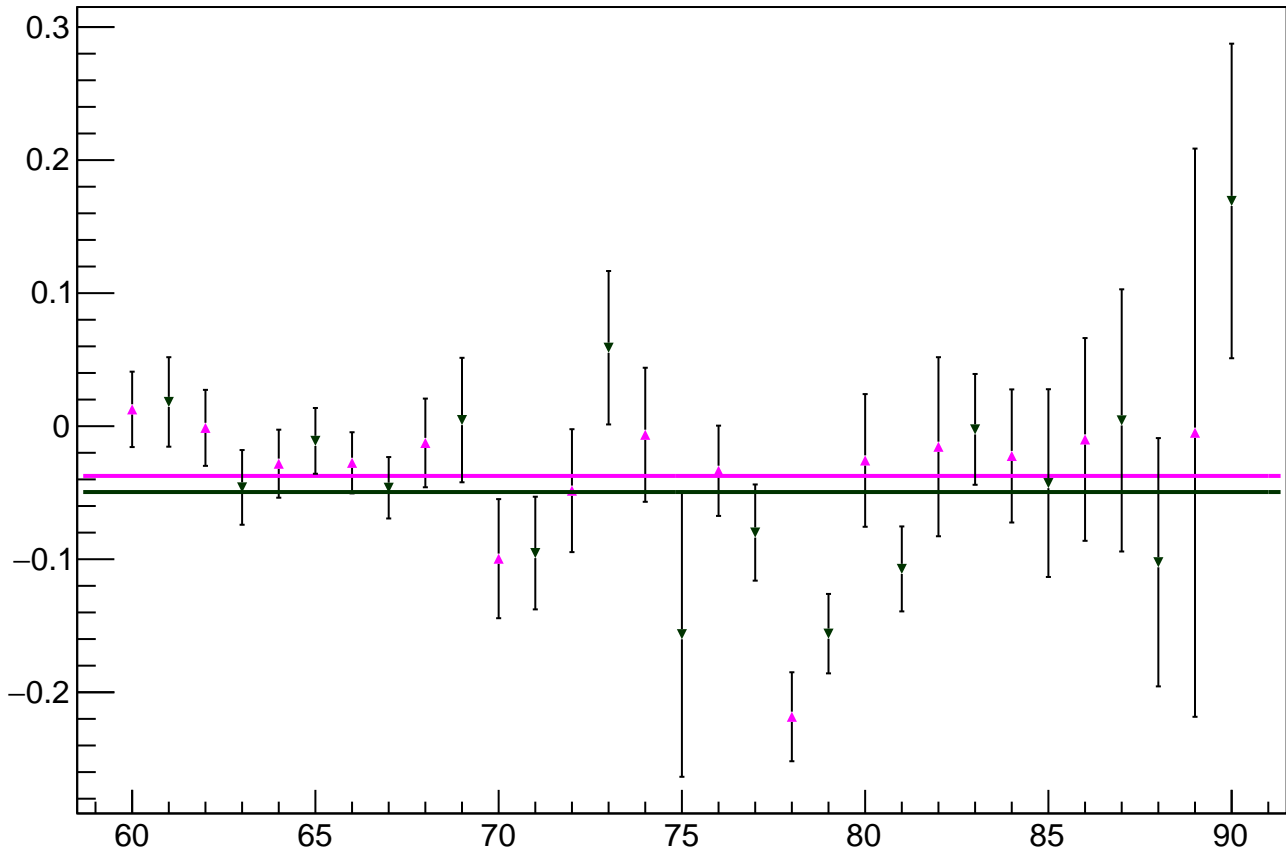
# reg\_bcm\_an\_us\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.010+/-0.001  $\chi^2$ /NDF:120.4/15  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.010+/-0.001  $\chi^2$ /NDF:118.4/14

0.010+/-0.001  $\chi^2$ /NDF: 120.4/15  
0.010+/-0.001  $\chi^2$ /NDF: 118.4/14

# reg\_bcm\_an\_us\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.049+/-0.010  $\chi^2$ /NDF: 35.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

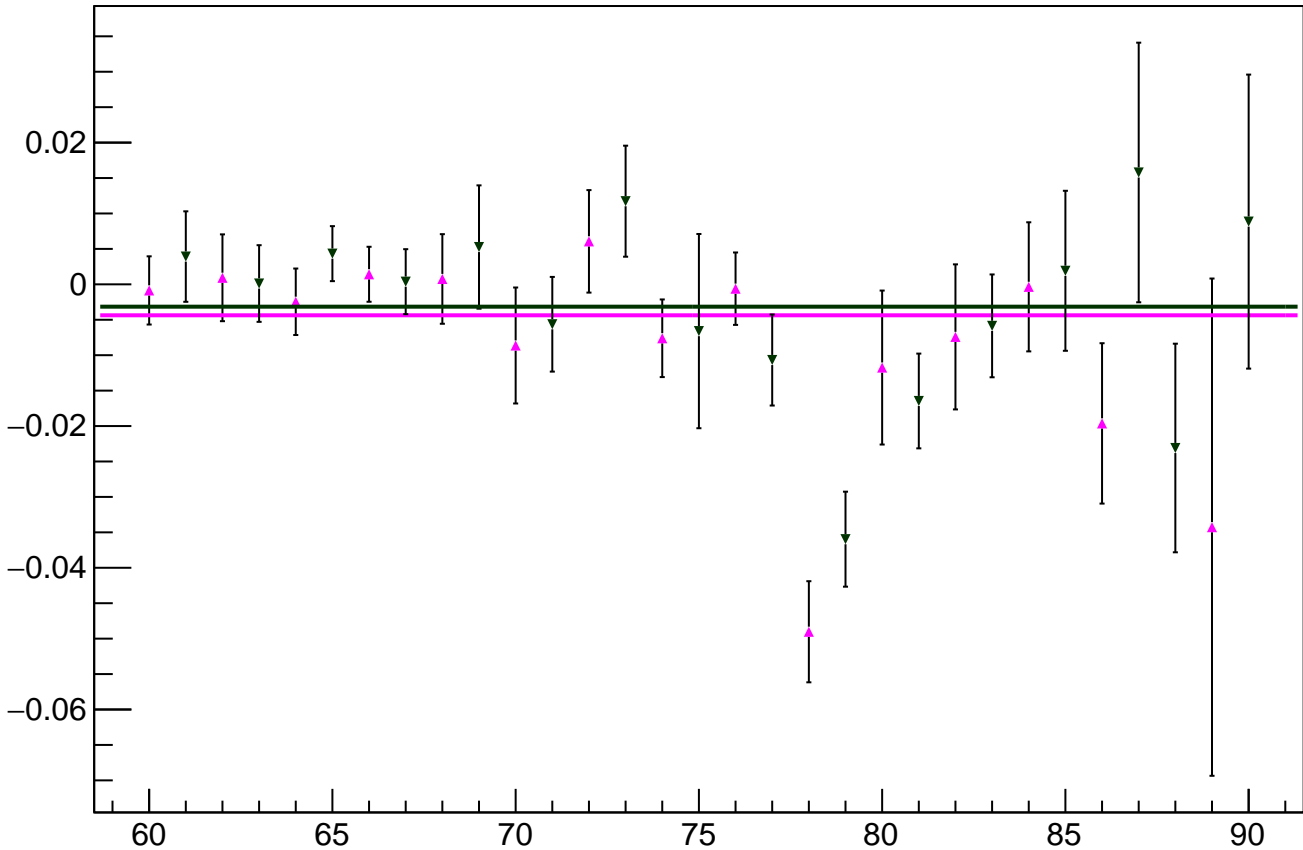
Left In: -0.037+/-0.009  $\chi^2$ /NDF: 37.7/14

-0.049+/-0.010  $\chi^2$ /NDF: 35.6/15

-0.037+/-0.009  $\chi^2$ /NDF: 37.7/14



# reg\_bcm\_an\_us\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.003+/-0.002  $\chi^2$ /NDF: 43.5/15

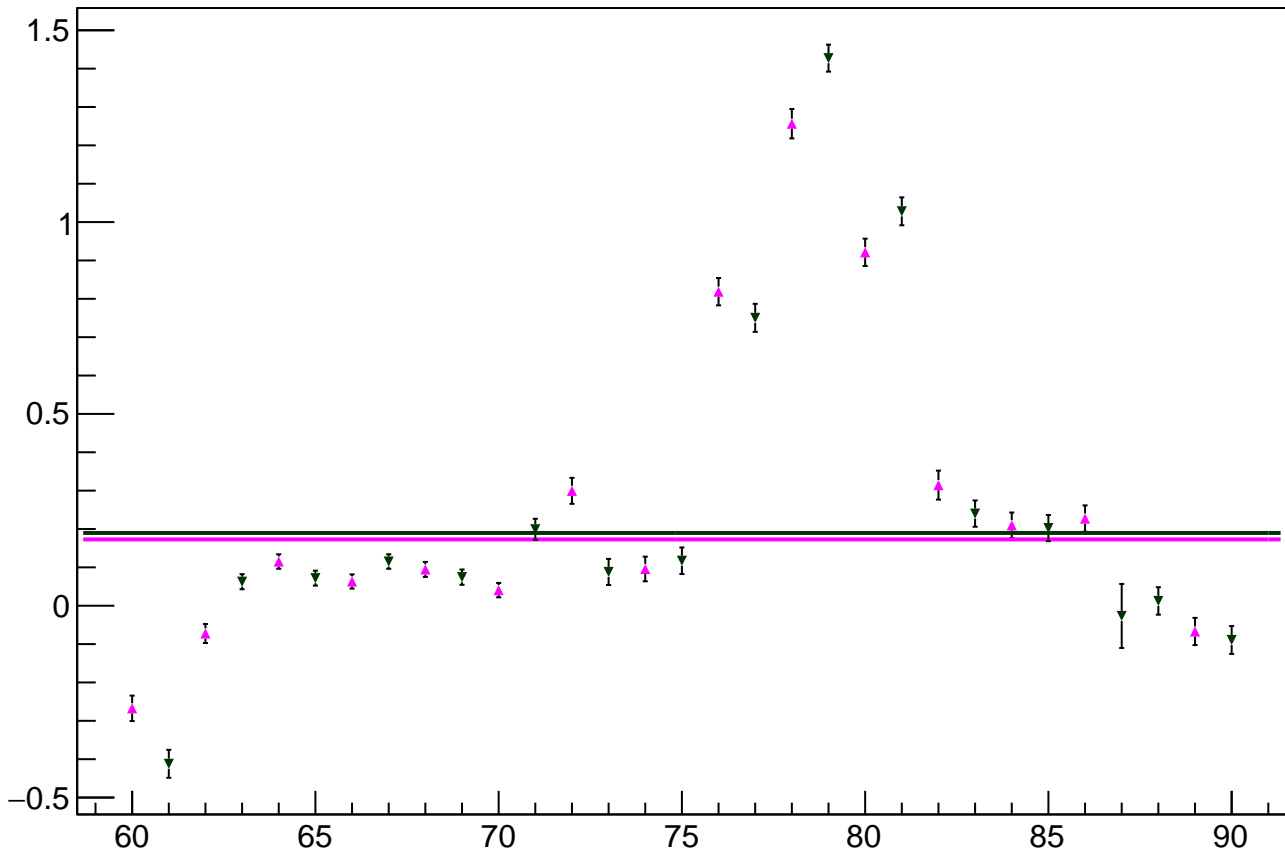
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.004+/-0.002  $\chi^2$ /NDF: 50.0/14

-0.003+/-0.002  $\chi^2$ /NDF: 43.5/15

-0.004+/-0.002  $\chi^2$ /NDF: 50.0/14

# reg\_bcm\_dg\_us\_dg\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.190+/-0.007  $\chi^2$ /NDF:2512.7/15

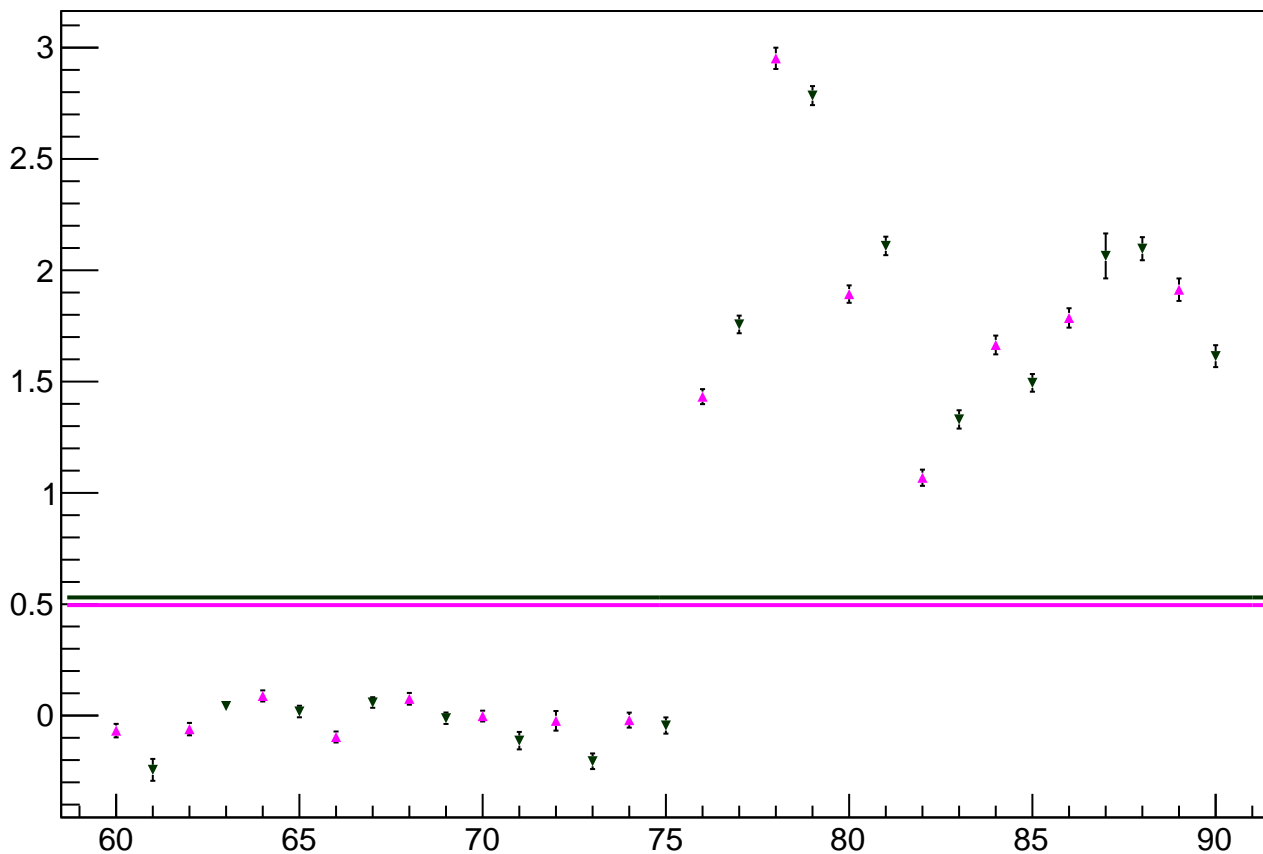
0.190+/-0.007  $\chi^2$ /NDF: 2512.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.173+/-0.007  $\chi^2$ /NDF:2037.8/14

0.173+/-0.007  $\chi^2$ /NDF: 2037.8/14

# reg\_bcm\_dg\_us\_dg\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.531+/-0.009  $\chi^2/\text{NDF}$ : 10702.3/15

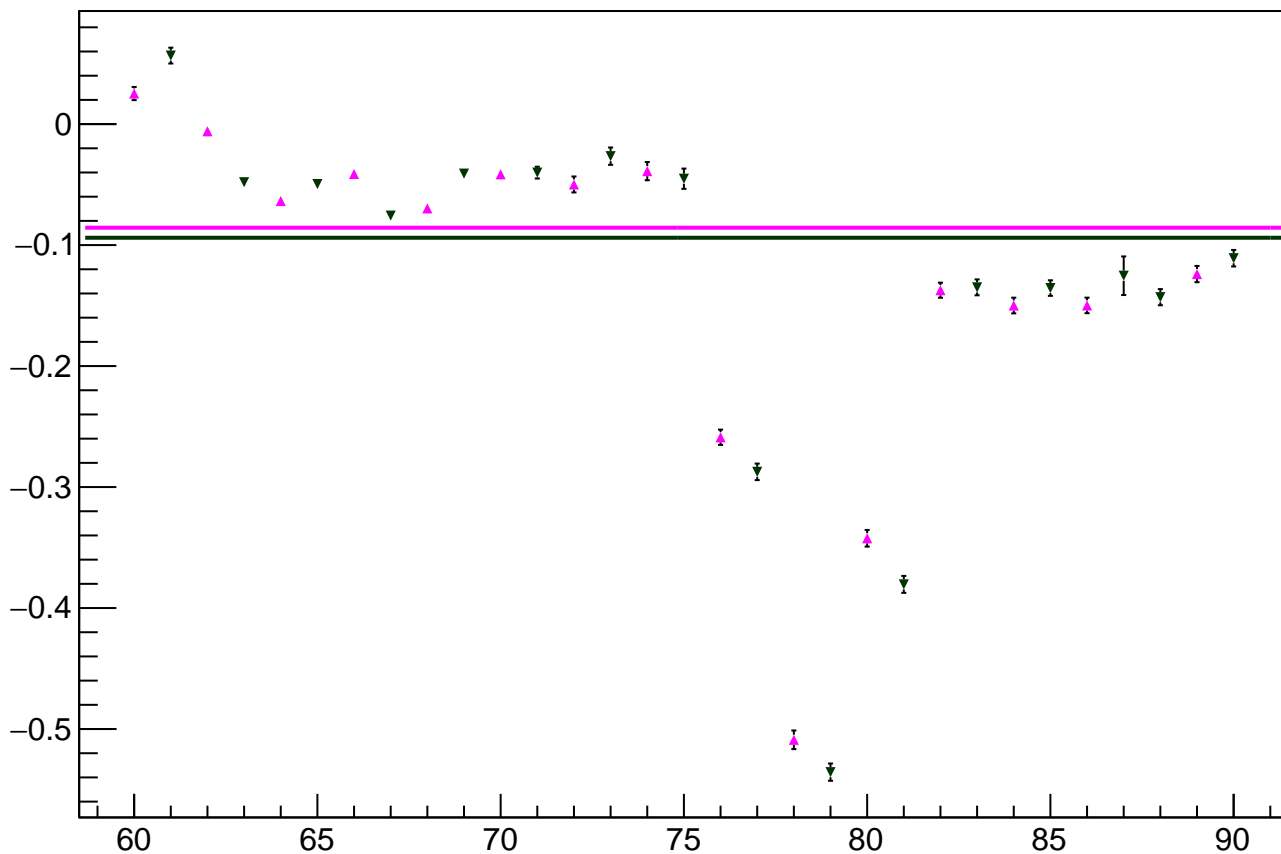
Left Out: 0.531+/-0.009  $\chi^2/\text{NDF}$ : 10702.3/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.496+/-0.008  $\chi^2/\text{NDF}$ : 9992.7/14

Left In: 0.496+/-0.008  $\chi^2/\text{NDF}$ : 9992.7/14

# reg\_bcm\_dg\_us\_dg\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.094+/-0.001  $\chi^2$ /NDF: 7846.1/15

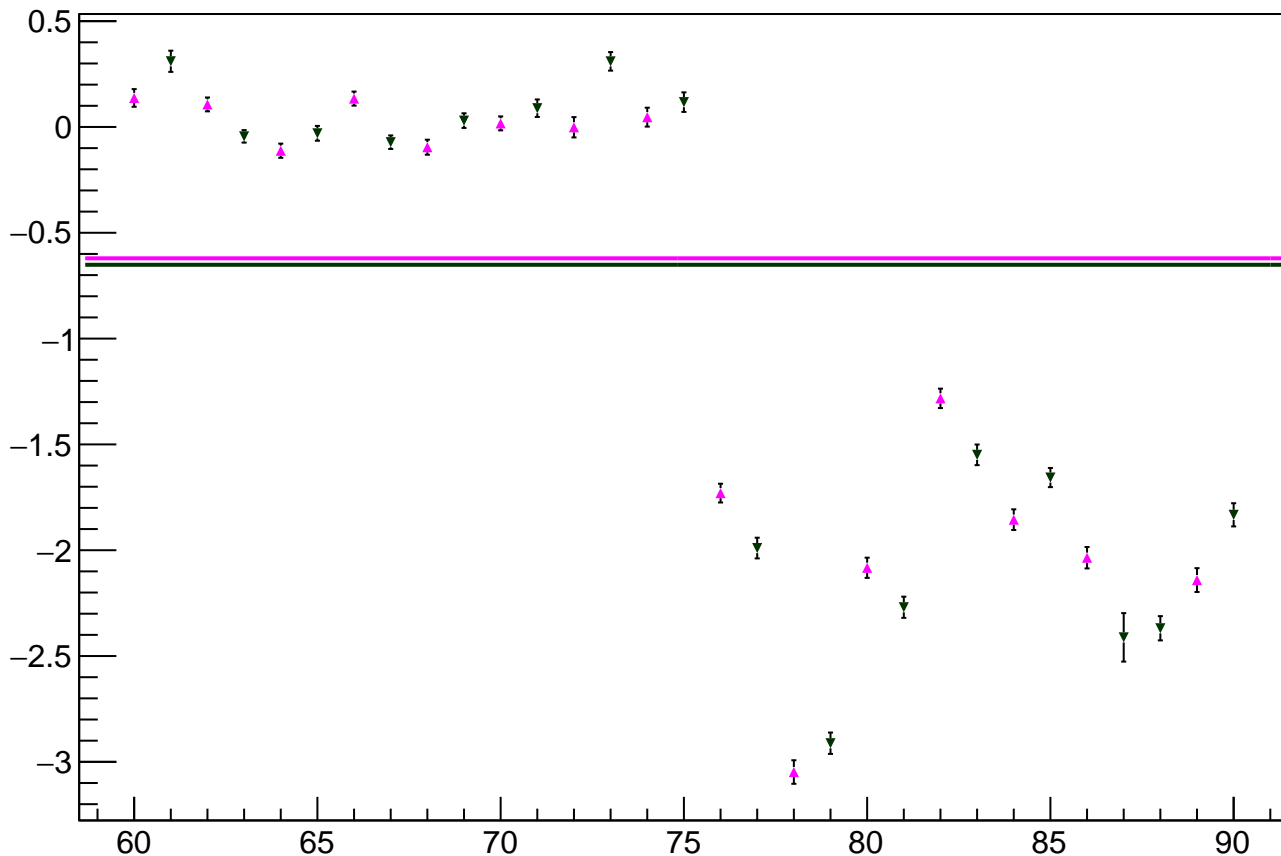
-0.094+/-0.001  $\chi^2$ /NDF: 7846.1/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.086+/-0.001  $\chi^2$ /NDF: 6742.9/14

-0.086+/-0.001  $\chi^2$ /NDF: 6742.9/14

# reg\_bcm\_dg\_us\_dg\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.651+/-0.011  $\chi^2$ /NDF:9127.9/15

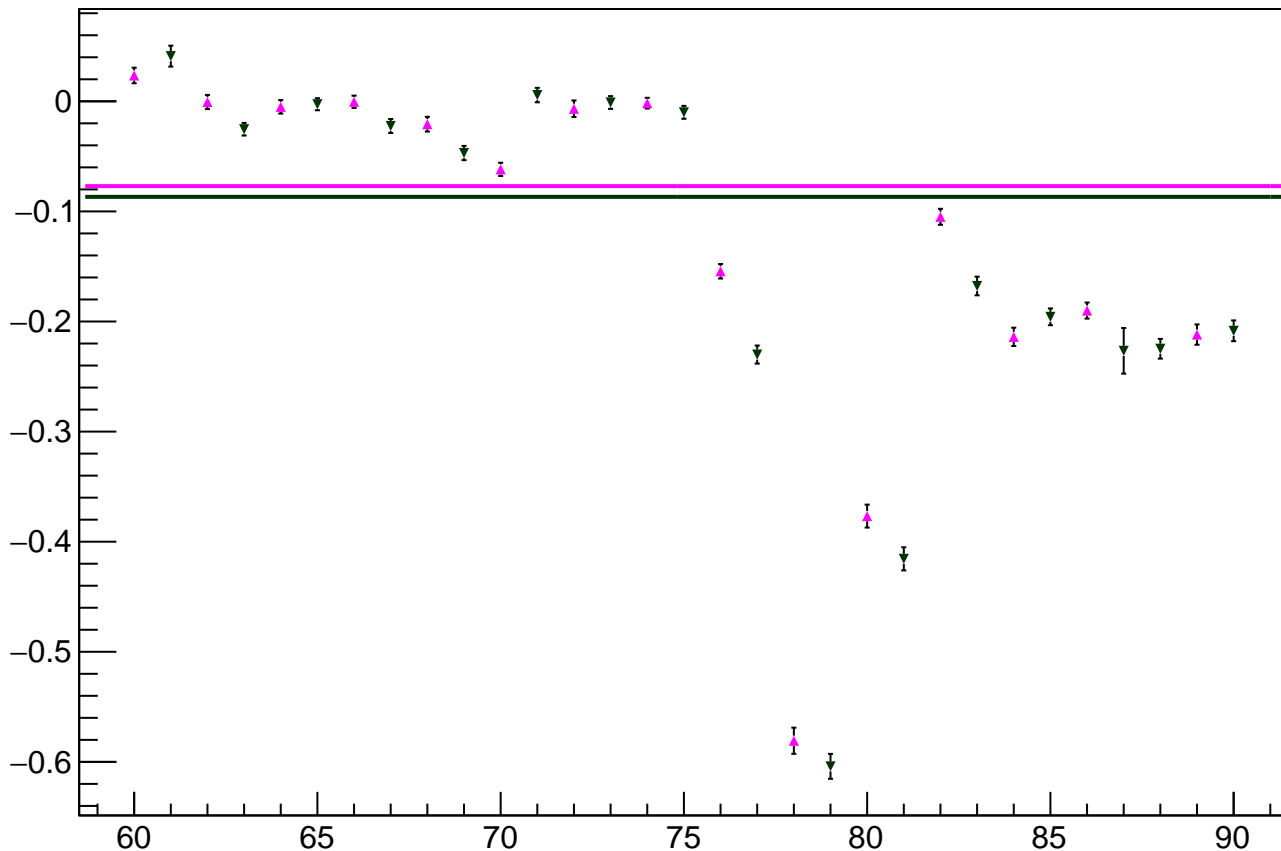
-0.651+/-0.011  $\chi^2$ /NDF: 9127.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.621+/-0.011  $\chi^2$ /NDF:8377.1/14

-0.621+/-0.011  $\chi^2$ /NDF: 8377.1/14

# reg\_bcm\_dg\_us\_dg\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.087+/-0.002  $\chi^2$ /NDF: 5375.0/15

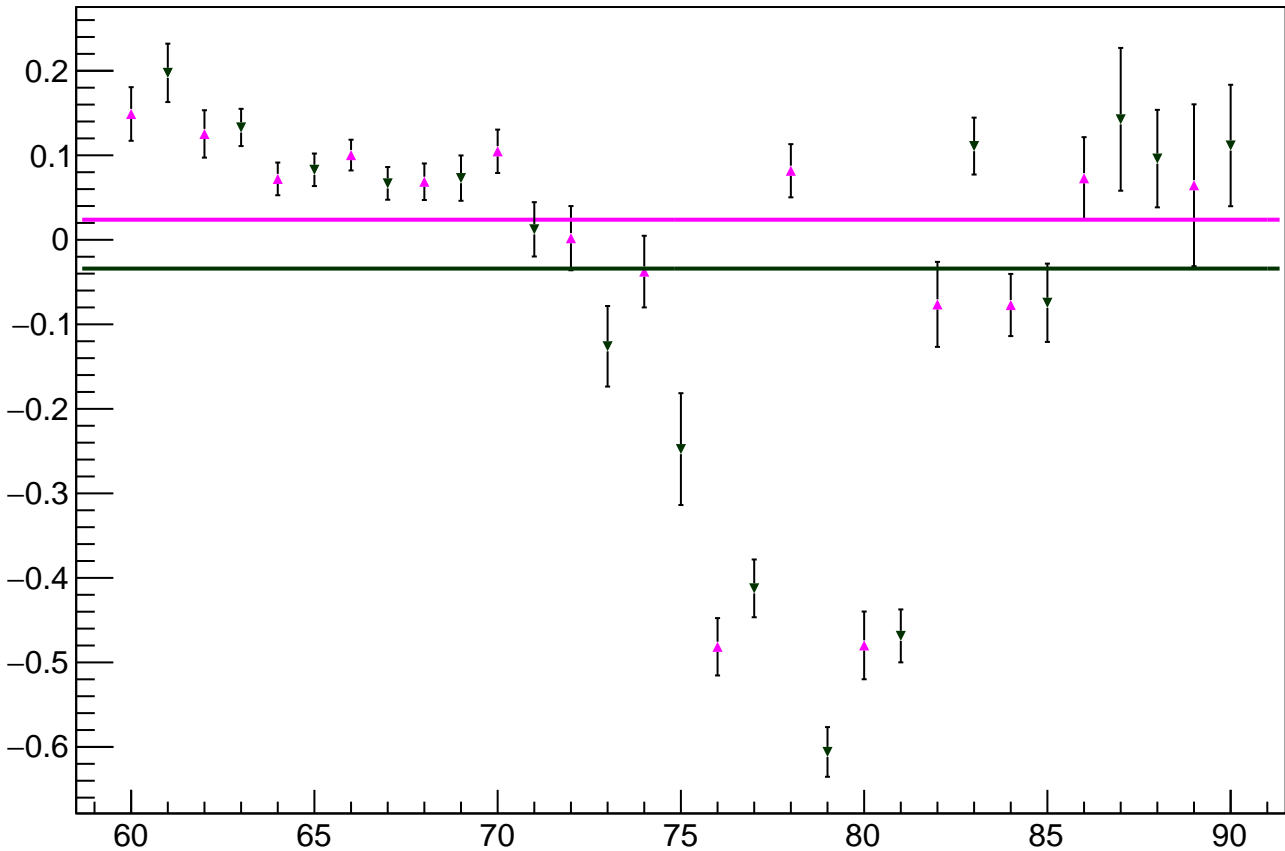
-0.087+/-0.002  $\chi^2$ /NDF: 5375.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.077+/-0.002  $\chi^2$ /NDF: 4571.0/14

-0.077+/-0.002  $\chi^2$ /NDF: 4571.0/14

# reg\_bcm\_cav4cQ\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.034+/-0.008  $\chi^2$ /NDF:925.0/15

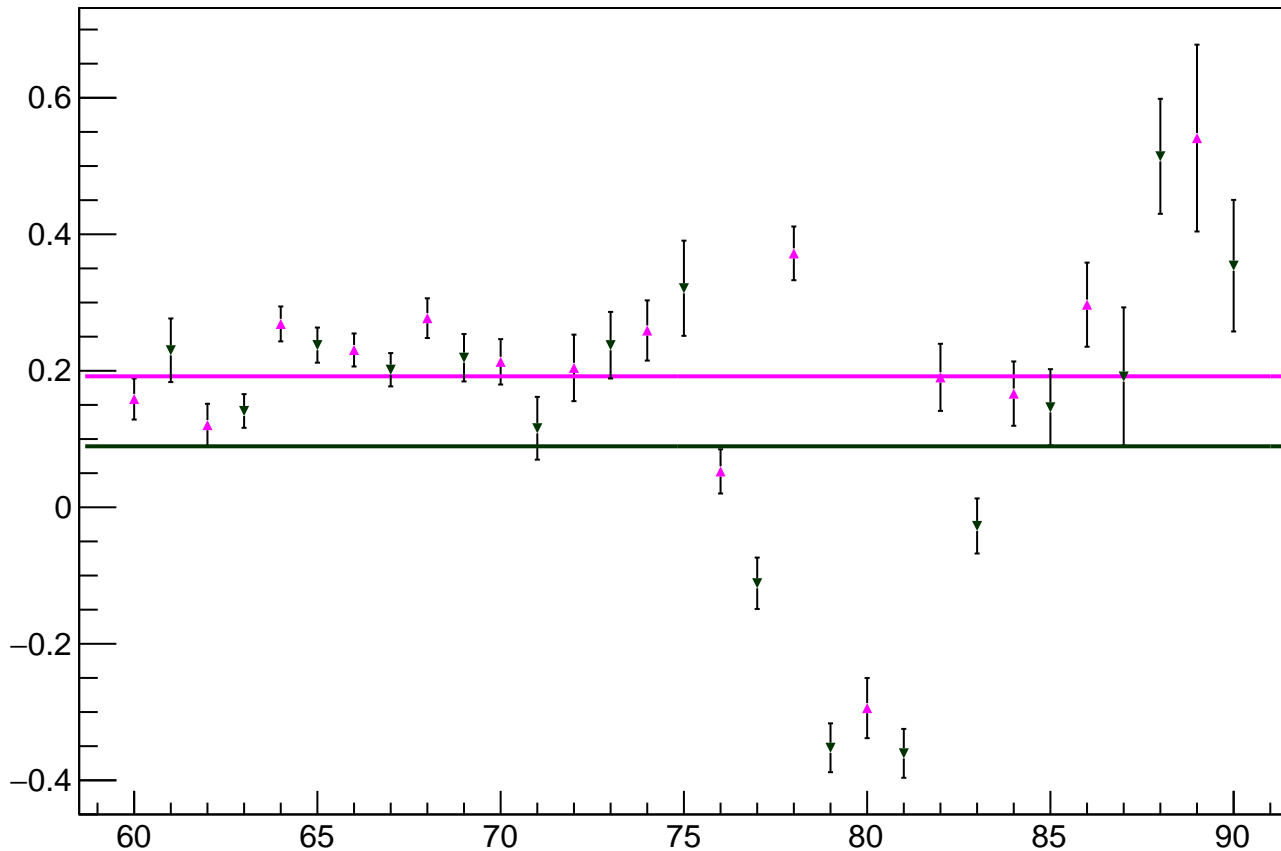
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.024+/-0.008  $\chi^2$ /NDF:465.1/14

-0.034+/-0.008  $\chi^2$ /NDF: 925.0/15

0.024+/-0.008  $\chi^2$ /NDF: 465.1/14

# reg\_bcm\_cav4cQ\_ds\_dd\_diff\_bpm4aY\_slope vs slug

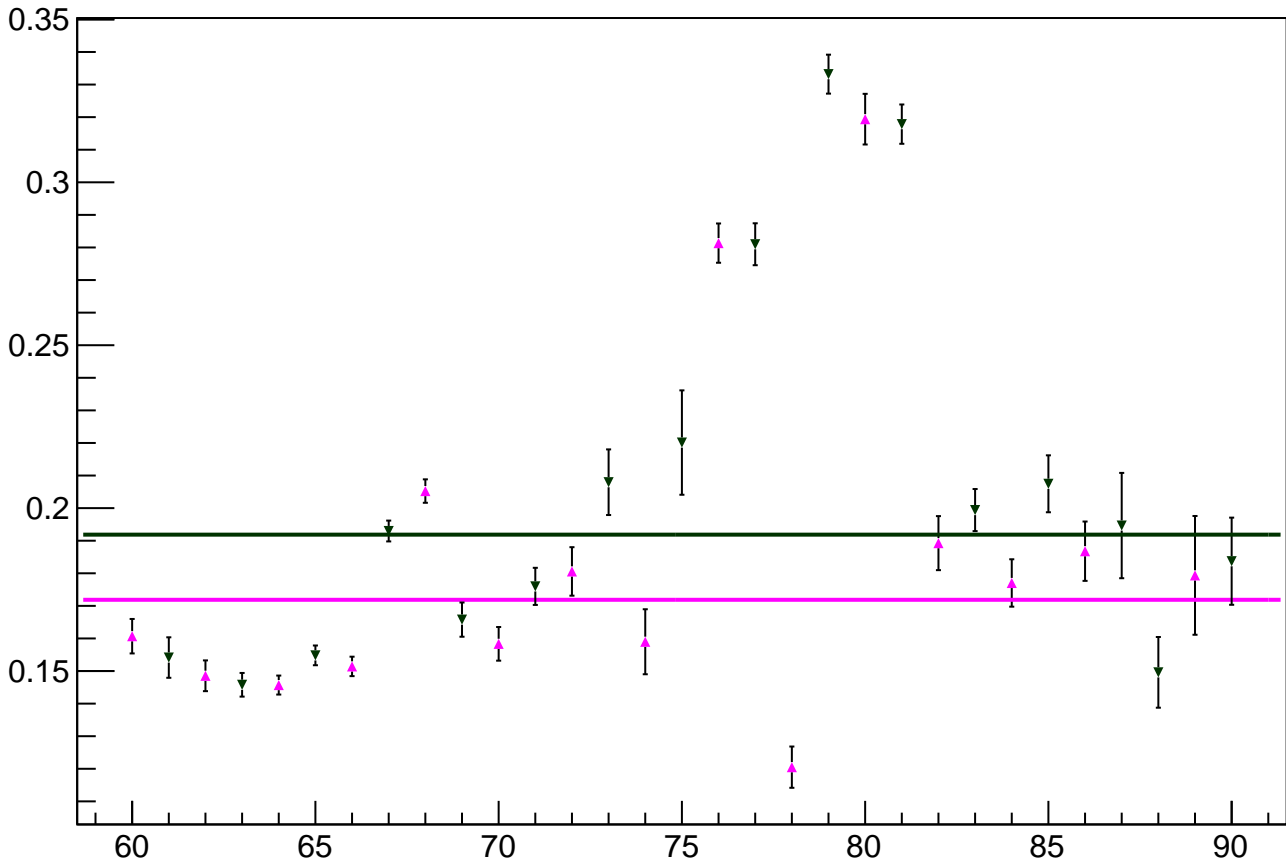


Right In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.089 $\pm$ 0.010  $\chi^2$ /NDF:484.4/15  
 Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.192 $\pm$ 0.009  $\chi^2$ /NDF:200.2/14

0.089 $\pm$ 0.010  $\chi^2$ /NDF: 484.4/15  
 0.192 $\pm$ 0.009  $\chi^2$ /NDF: 200.2/14



# reg\_bcm\_cav4cQ\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.192+/-0.001  $\chi^2$ /NDF:1593.2/15

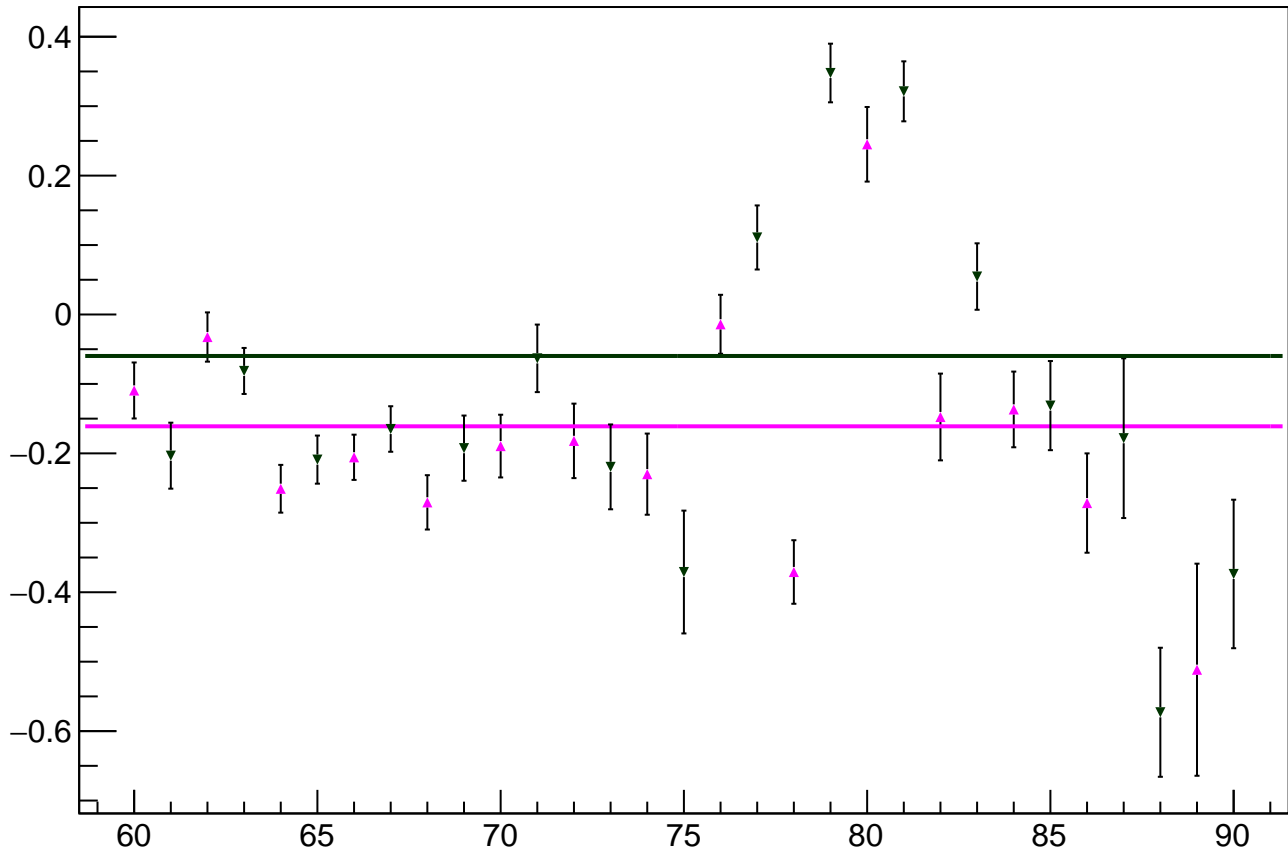
0.192+/-0.001  $\chi^2$ /NDF: 1593.2/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.172+/-0.001  $\chi^2$ /NDF:1015.9/14

0.172+/-0.001  $\chi^2$ /NDF: 1015.9/14

# reg\_bcm\_cav4cQ\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.060+/-0.012  $\chi^2$ /NDF:297.4/15

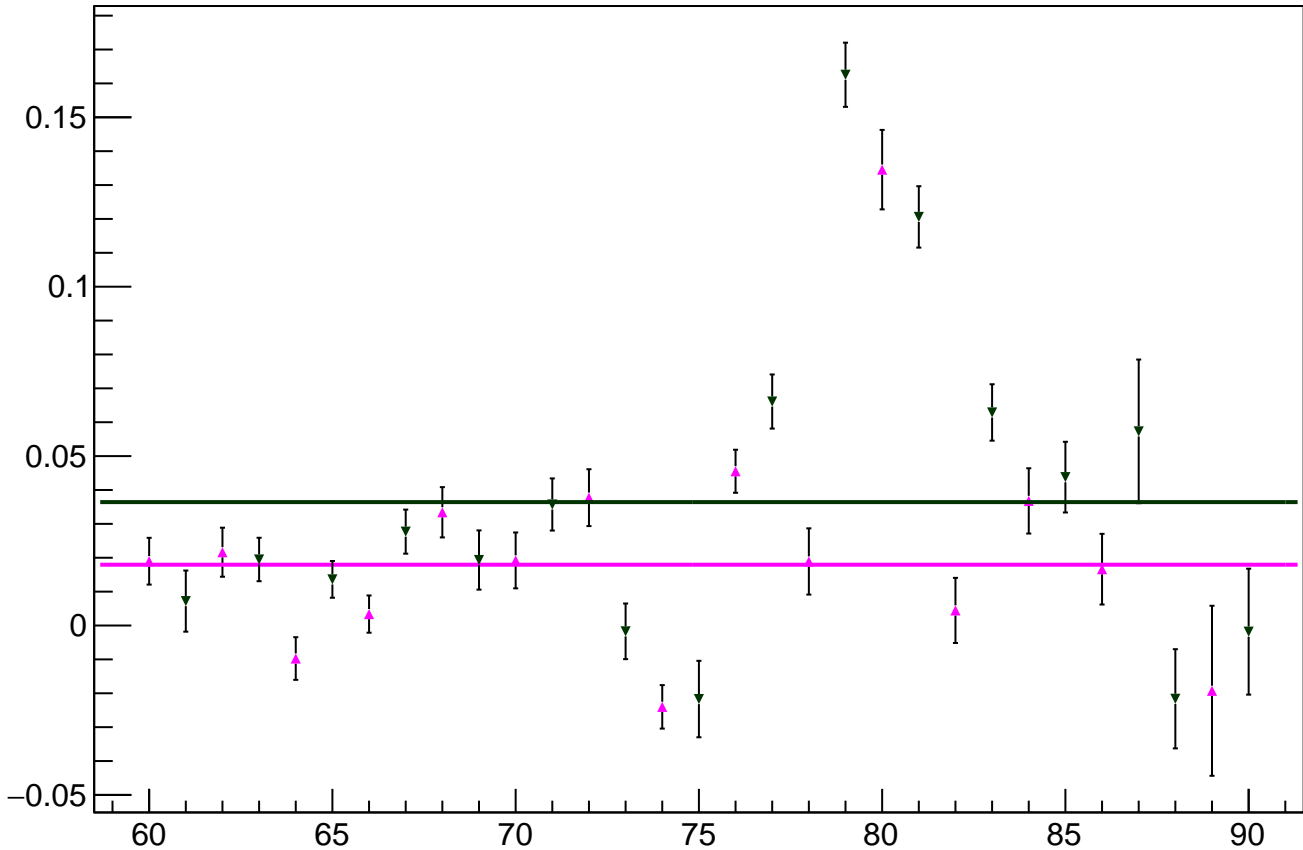
-0.060+/-0.012  $\chi^2$ /NDF: 297.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.161+/-0.012  $\chi^2$ /NDF:131.3/14

-0.161+/-0.012  $\chi^2$ /NDF: 131.3/14

# reg\_bcm\_cav4cQ\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.036+/-0.002  $\chi^2$ /NDF: 397.9/15

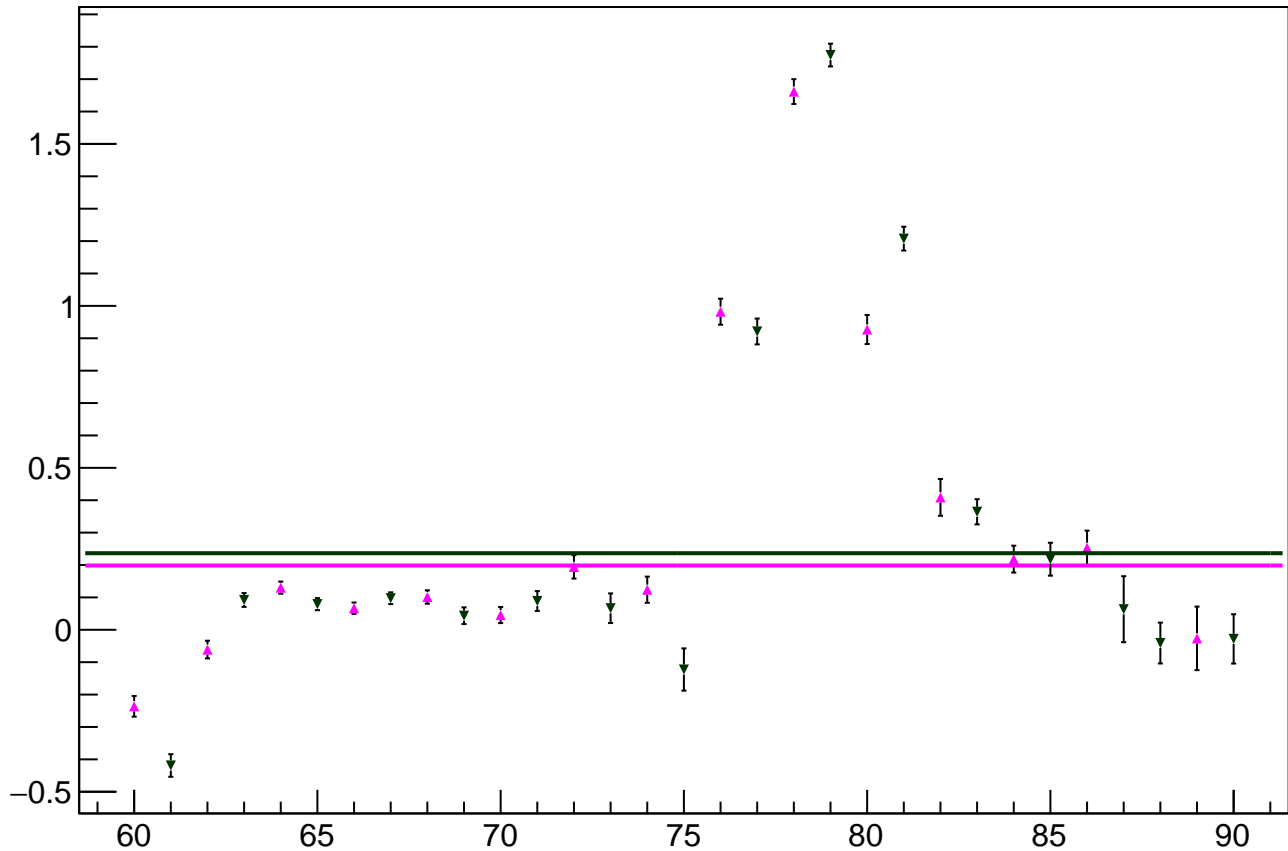
Left Out: 0.036+/-0.002  $\chi^2$ /NDF:397.9/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.018+/-0.002  $\chi^2$ /NDF: 205.0/14

Left In: 0.018+/-0.002  $\chi^2$ /NDF:205.0/14

# reg\_bcm\_dg\_us\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.236+/-0.008  $\chi^2$ /NDF:3601.3/15

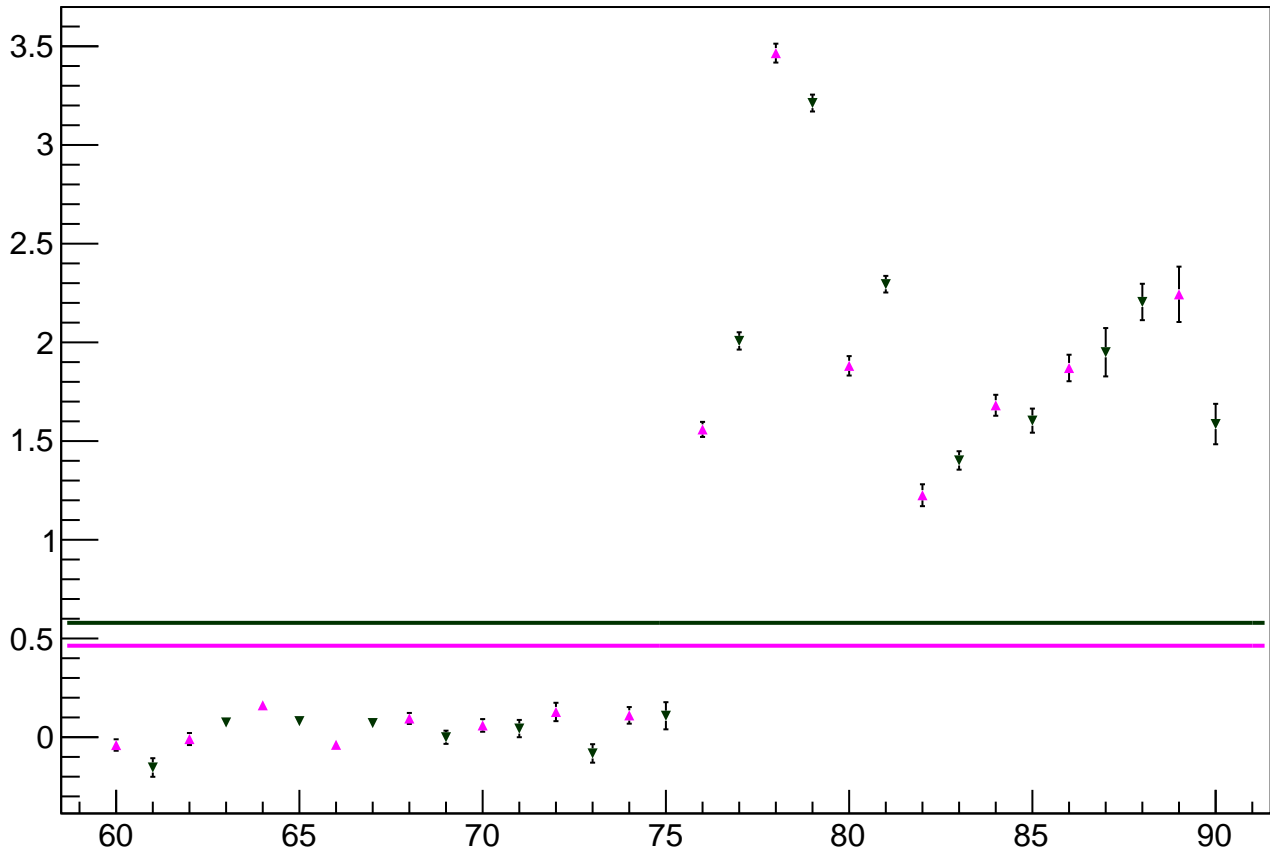
0.236+/-0.008  $\chi^2$ /NDF: 3601.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.198+/-0.008  $\chi^2$ /NDF:2531.1/14

0.198+/-0.008  $\chi^2$ /NDF: 2531.1/14

# reg\_bcm\_dg\_us\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.579+/-0.010  $\chi^2/\text{NDF}$ : 9911.9/15

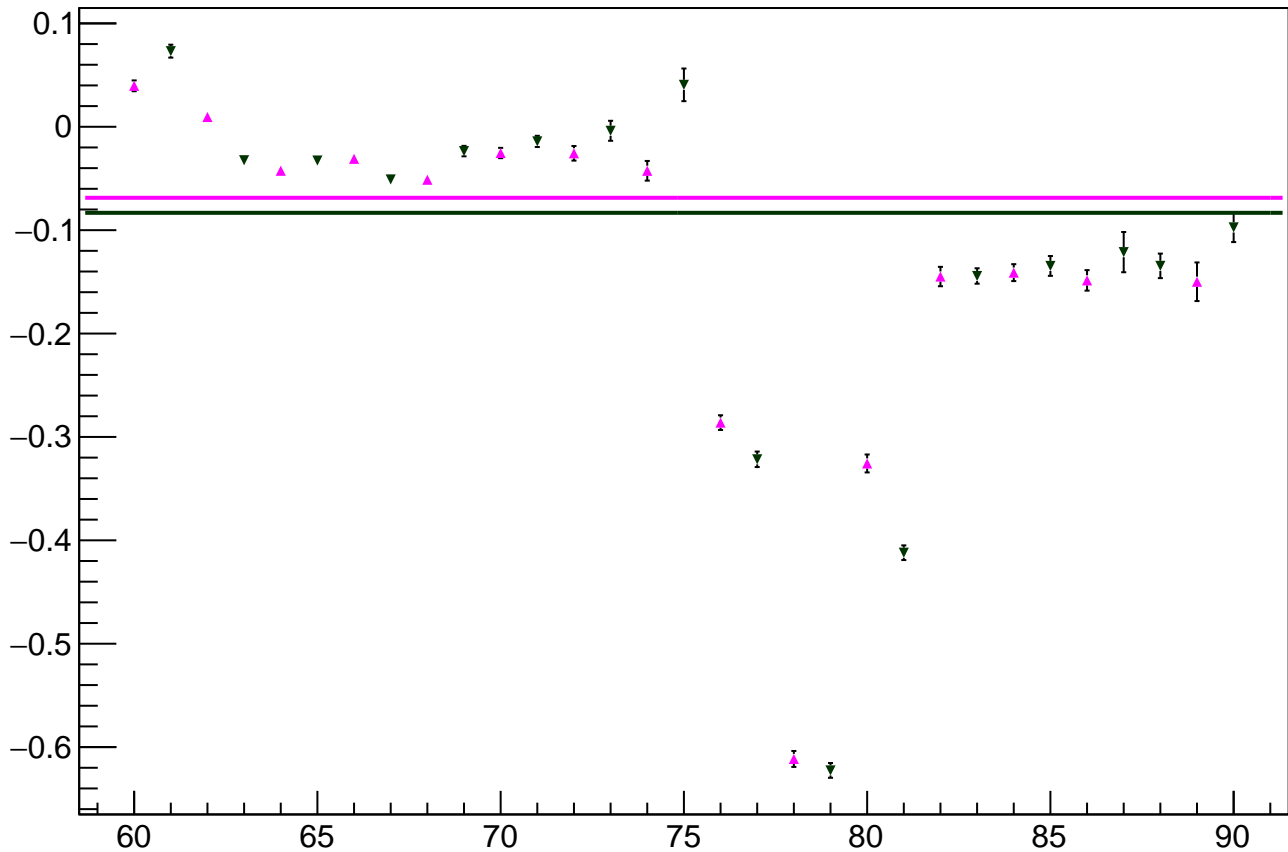
0.579+/-0.010  $\chi^2/\text{NDF}$ : 9911.9/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.463+/-0.009  $\chi^2/\text{NDF}$ : 8507.2/14

0.463+/-0.009  $\chi^2/\text{NDF}$ : 8507.2/14

# reg\_bcm\_dg\_us\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.083+/-0.001  $\chi^2$ /NDF:10650.0/15

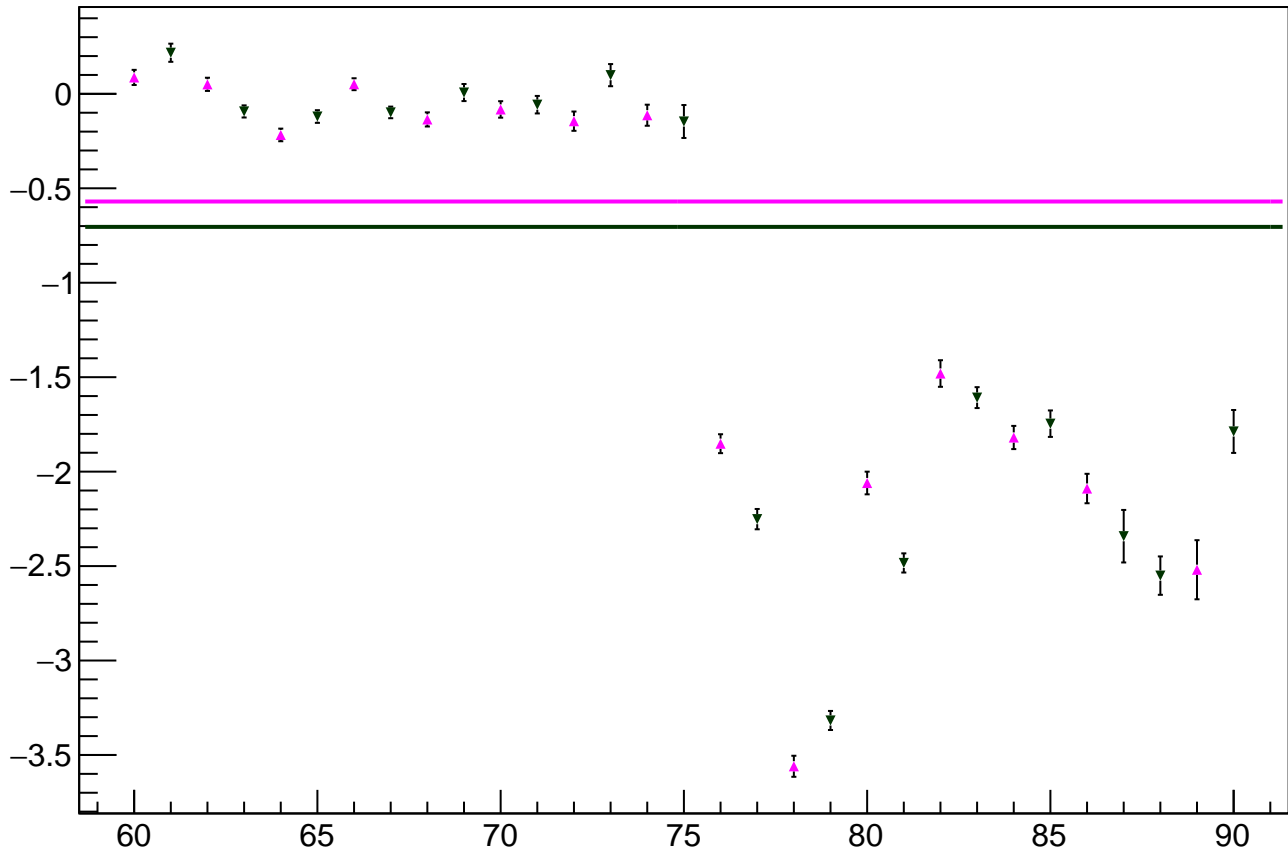
-0.083+/-0.001  $\chi^2$ /NDF: 10650.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.069+/-0.001  $\chi^2$ /NDF:8112.3/14

-0.069+/-0.001  $\chi^2$ /NDF: 8112.3/14

# reg\_bcm\_dg\_us\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.704+/-0.012  $\chi^2$ /NDF: 7874.4/15

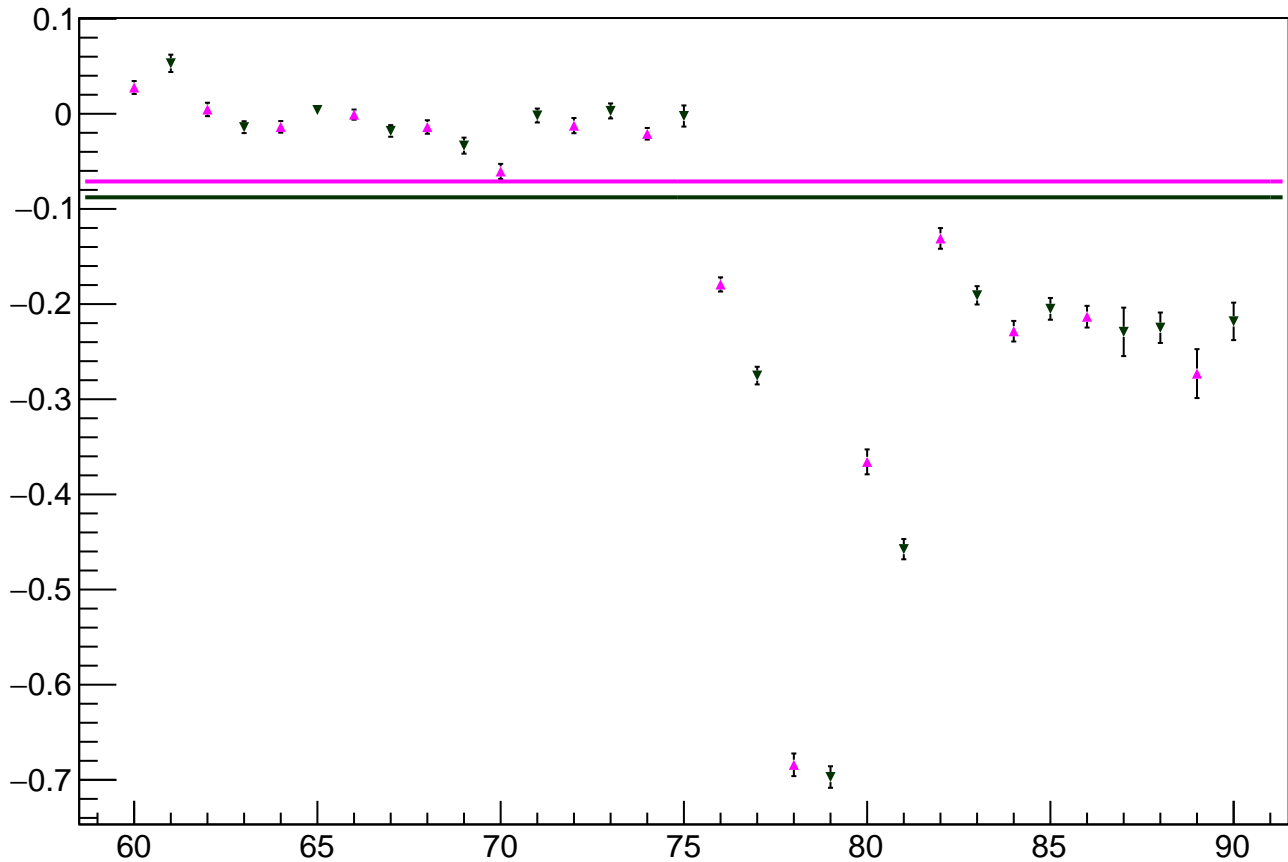
-0.704+/-0.012  $\chi^2$ /NDF: 7874.4/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.570+/-0.012  $\chi^2$ /NDF: 6750.5/14

-0.570+/-0.012  $\chi^2$ /NDF: 6750.5/14

# reg\_bcm\_dg\_us\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.088+/-0.002  $\chi^2$ /NDF:6061.9/15

-0.088+/-0.002  $\chi^2$ /NDF: 6061.9/15

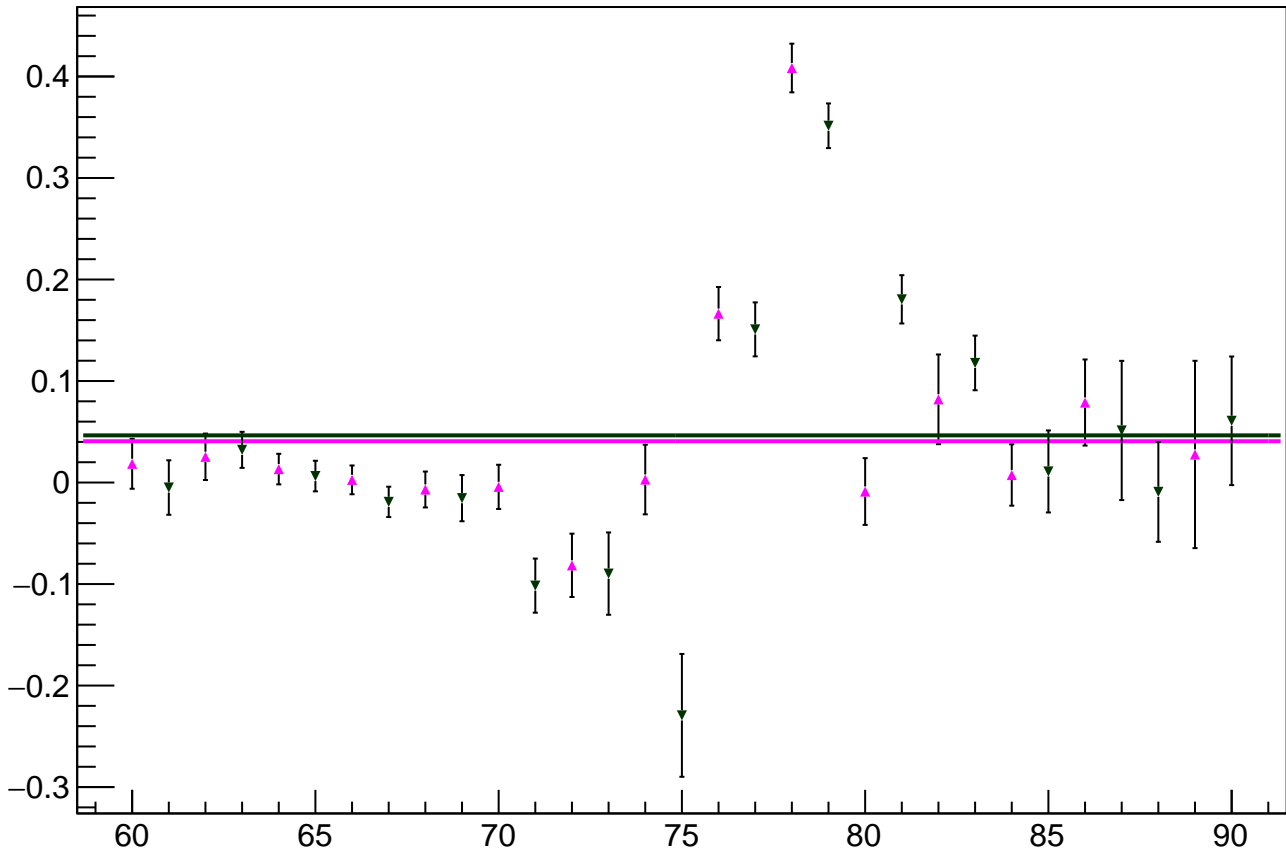
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.071+/-0.002  $\chi^2$ /NDF:4608.9/14

-0.071+/-0.002  $\chi^2$ /NDF: 4608.9/14



# reg\_bcm\_dg\_ds\_ds\_dd\_diff\_bpm4aX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.046+/-0.006  $\chi^2$ /NDF:349.3/15

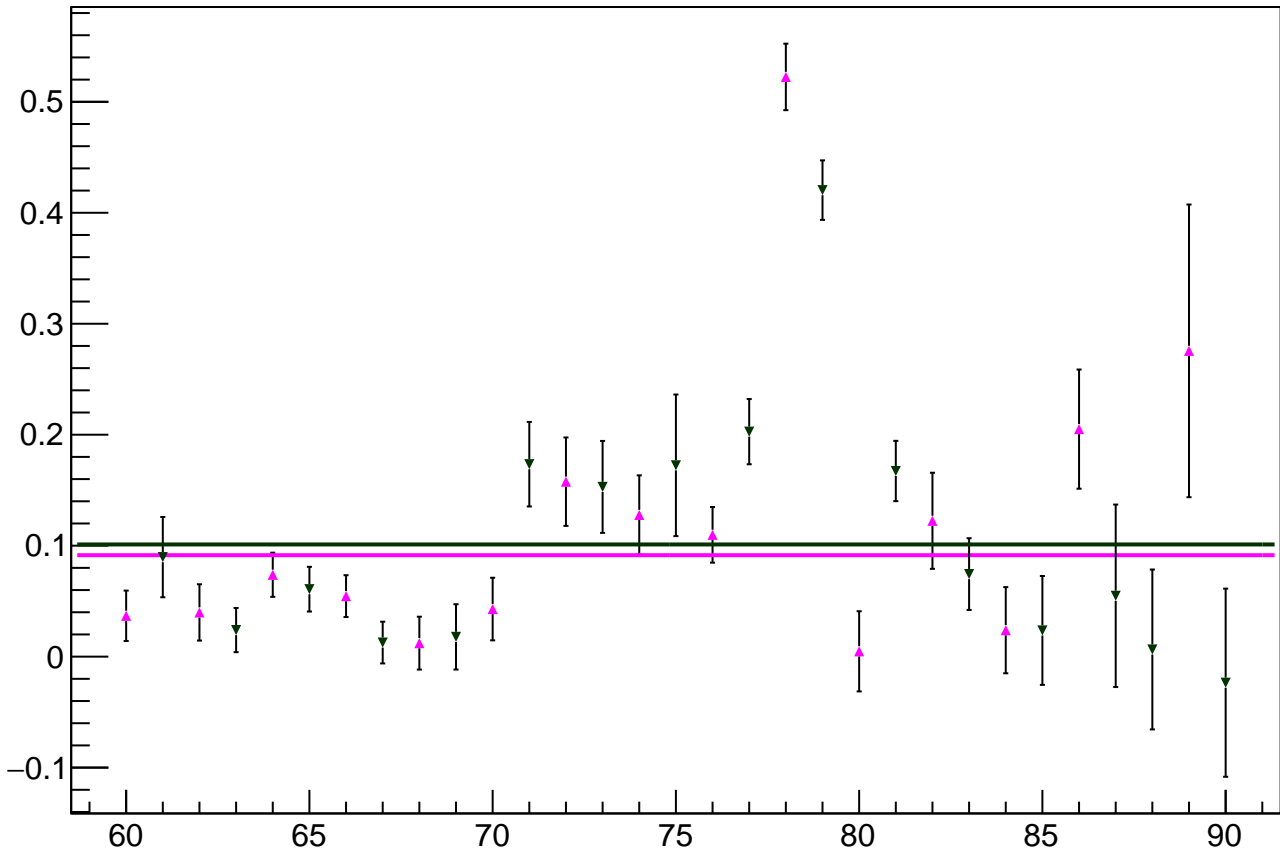
0.046+/-0.006  $\chi^2$ /NDF: 349.3/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.041+/-0.006  $\chi^2$ /NDF: 303.2/14

Left In: 0.041+/-0.006  $\chi^2$ /NDF:303.2/14

# reg\_bcm\_dg\_ds\_ds\_dd\_diff\_bpm4aY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.101+/-0.008  $\chi^2/\text{NDF}$ :222.7/15

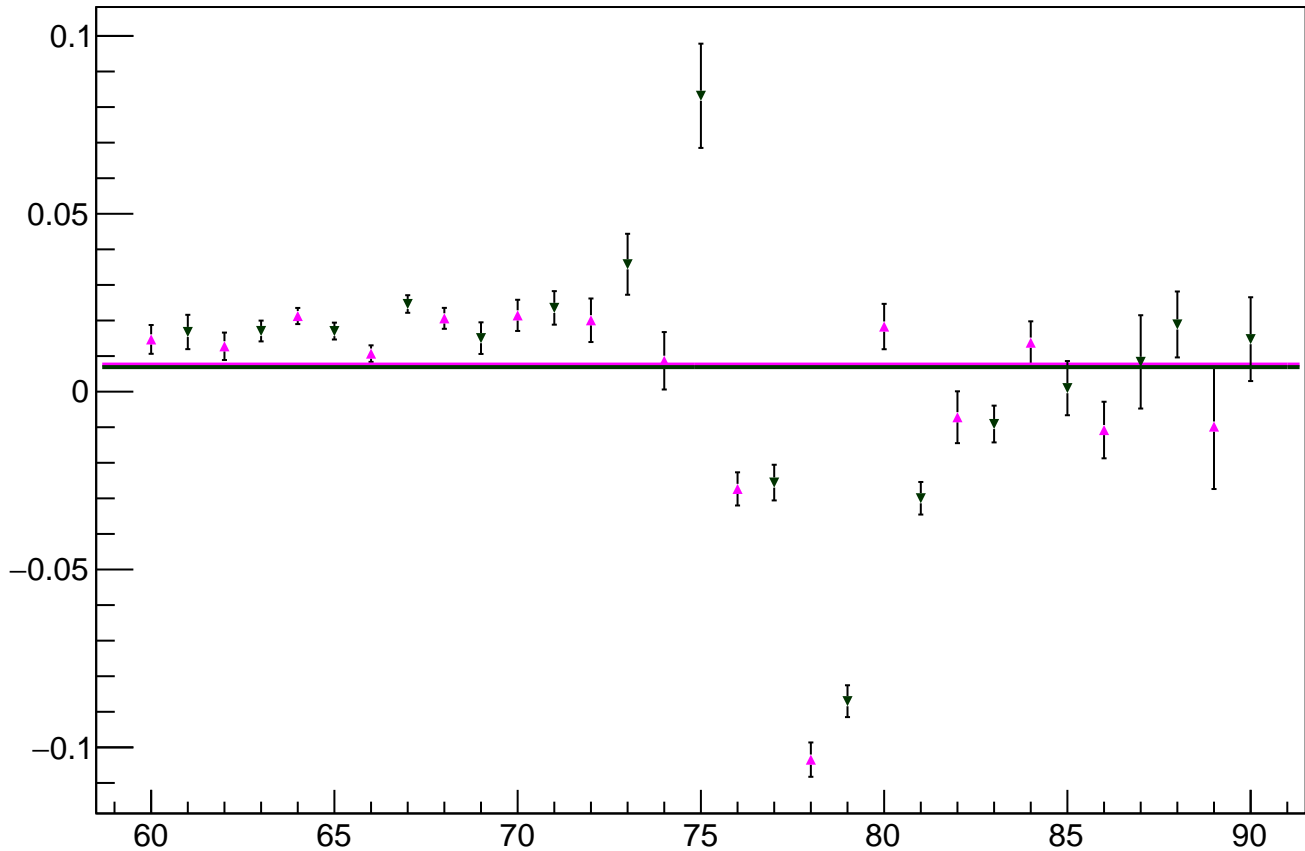
0.101+/-0.008  $\chi^2/\text{NDF}$ : 222.7/15

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.091+/-0.007  $\chi^2/\text{NDF}$ : 255.6/14

Left In: 0.091+/-0.007  $\chi^2/\text{NDF}$ :255.6/14

# reg\_bcm\_dg\_ds\_ds\_dd\_diff\_bpm4eX\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.007+/-0.001  $\chi^2$ /NDF:699.6/15

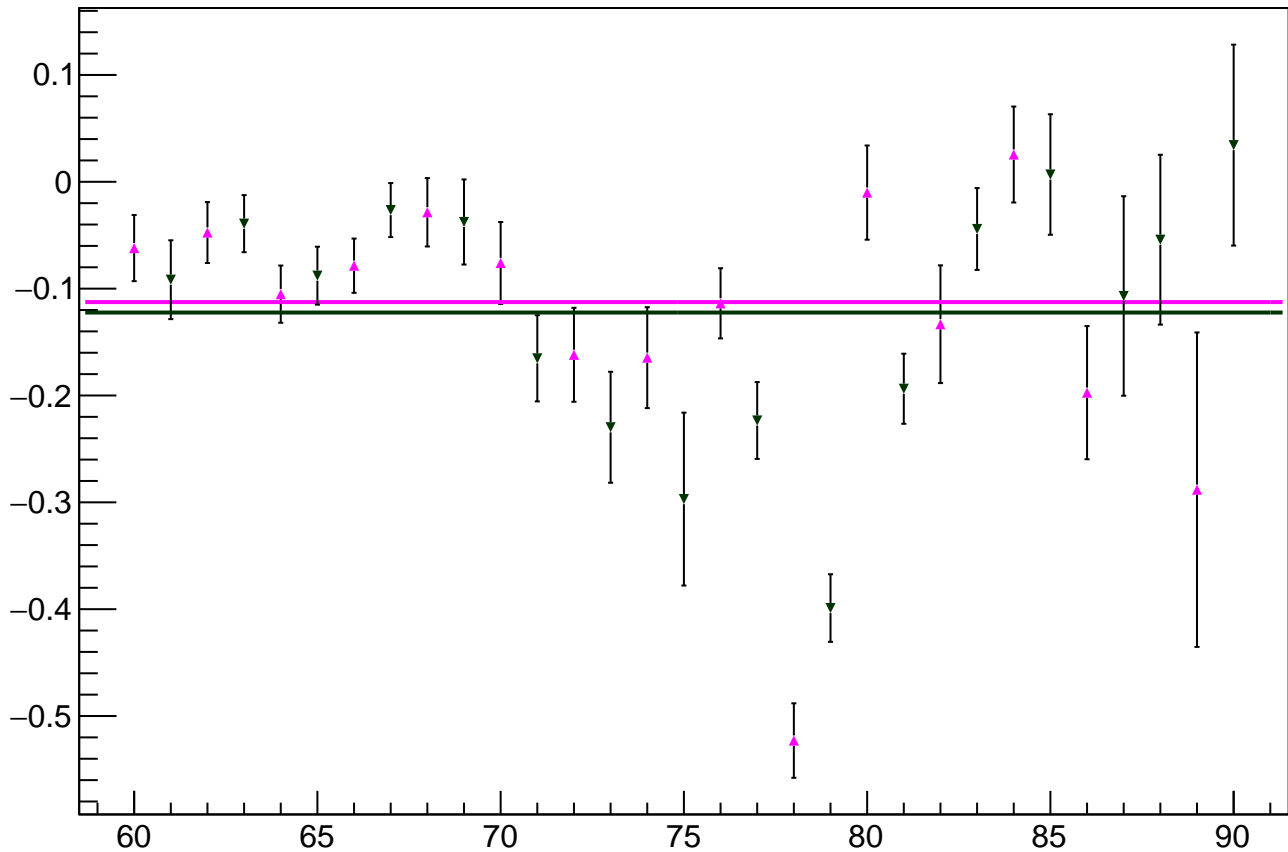
0.007+/-0.001  $\chi^2$ /NDF: 699.6/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.008+/-0.001  $\chi^2$ /NDF: 676.3/14

Left In: 0.008+/-0.001  $\chi^2$ /NDF:676.3/14

# reg\_bcm\_dg\_ds\_ds\_dd\_diff\_bpm4eY\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.122+/-0.010  $\chi^2$ /NDF:143.0/15

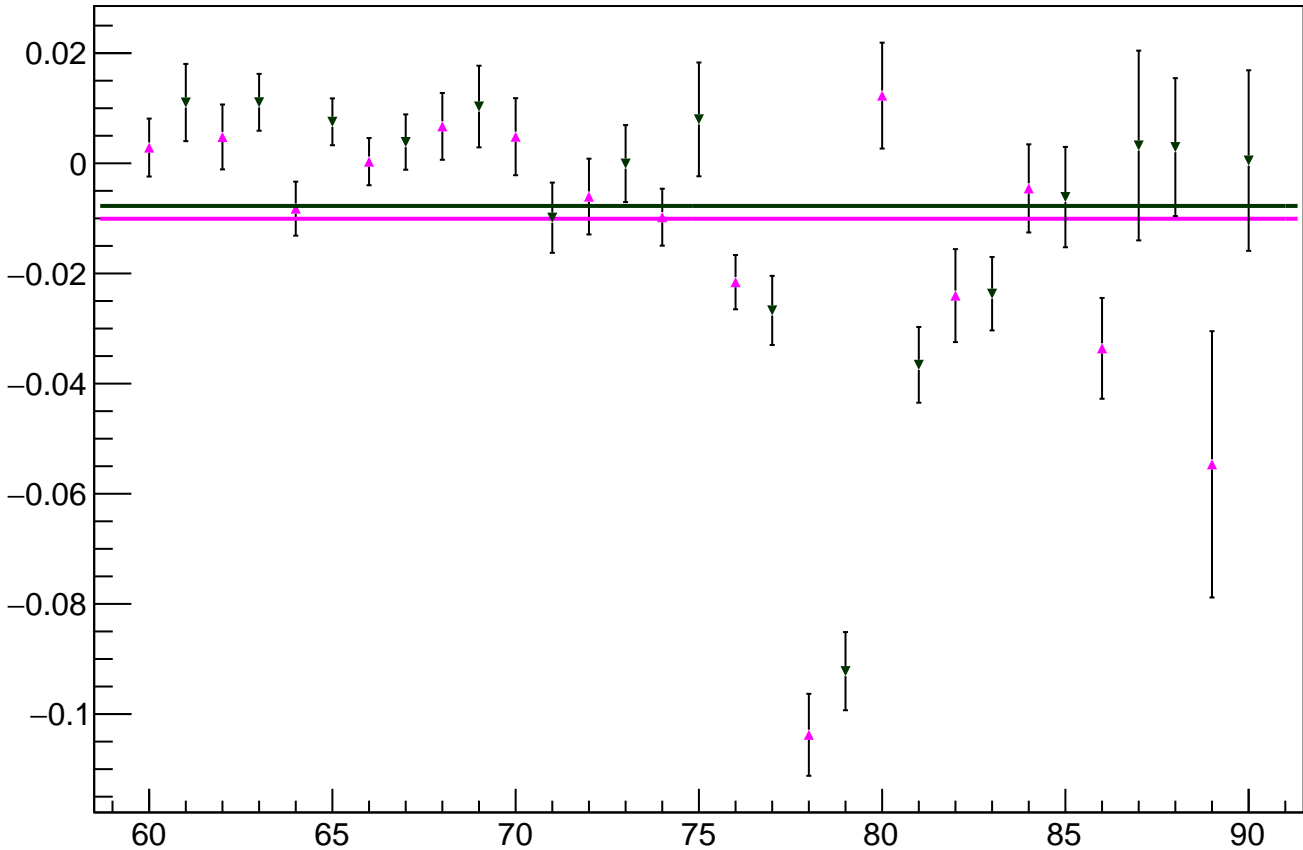
-0.122+/-0.010  $\chi^2$ /NDF: 143.0/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

-0.113+/-0.009  $\chi^2$ /NDF: 176.9/14

Left In: -0.113+/-0.009  $\chi^2$ /NDF:176.9/14

# reg\_bcm\_dg\_ds\_ds\_dd\_diff\_bpm11X\_slope vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left Out: -0.008+/-0.002  $\chi^2$ /NDF:223.7/15

Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.010+/-0.002  $\chi^2$ /NDF:213.5/14

-0.008+/-0.002  $\chi^2$ /NDF: 223.7/15

-0.010+/-0.002  $\chi^2$ /NDF: 213.5/14