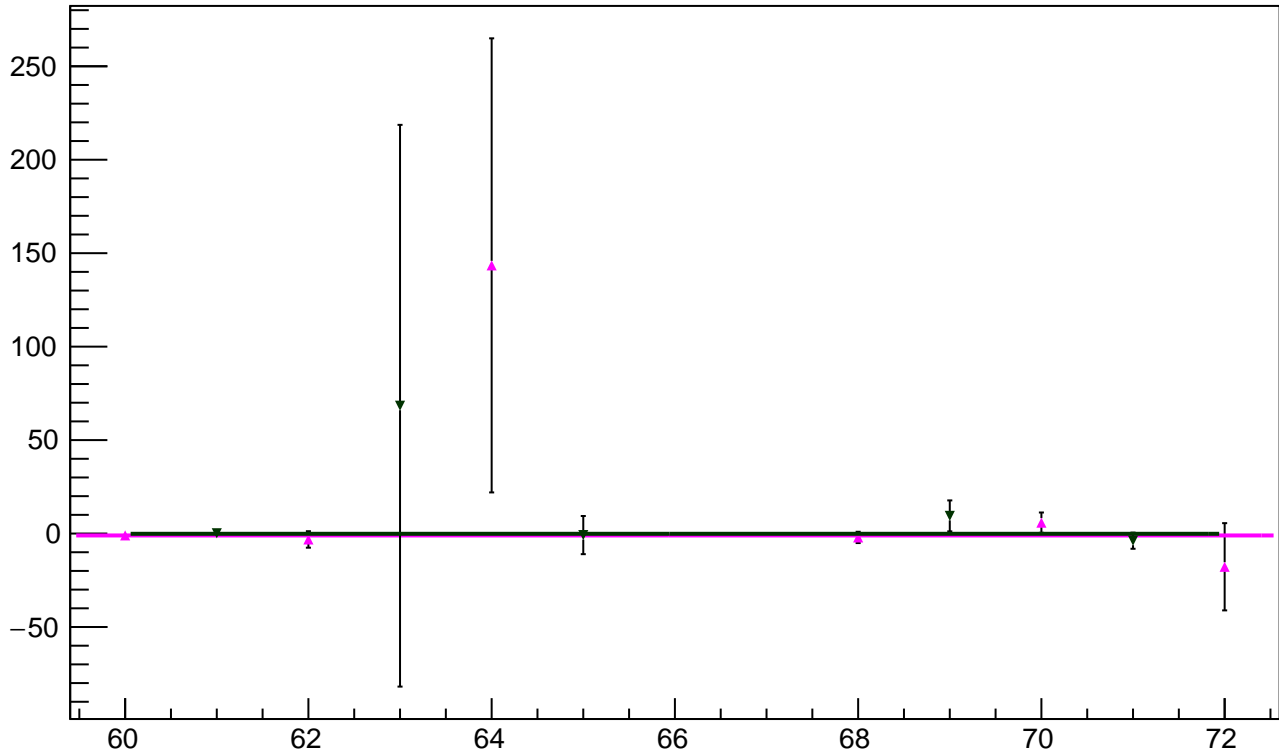


# diff\_cav4bX\_mean vs slug



Right In: 0.000+/-0.000

$\chi^2$ /NDF: 0.0/0

Left Out: -0.133+/-1.827

$\chi^2$ /NDF:2.3/4

-0.133+/-1.827

$\chi^2$ /NDF: 2.3/4

Right Out: 0.000+/-0.000

$\chi^2$ /NDF: 0.0/0

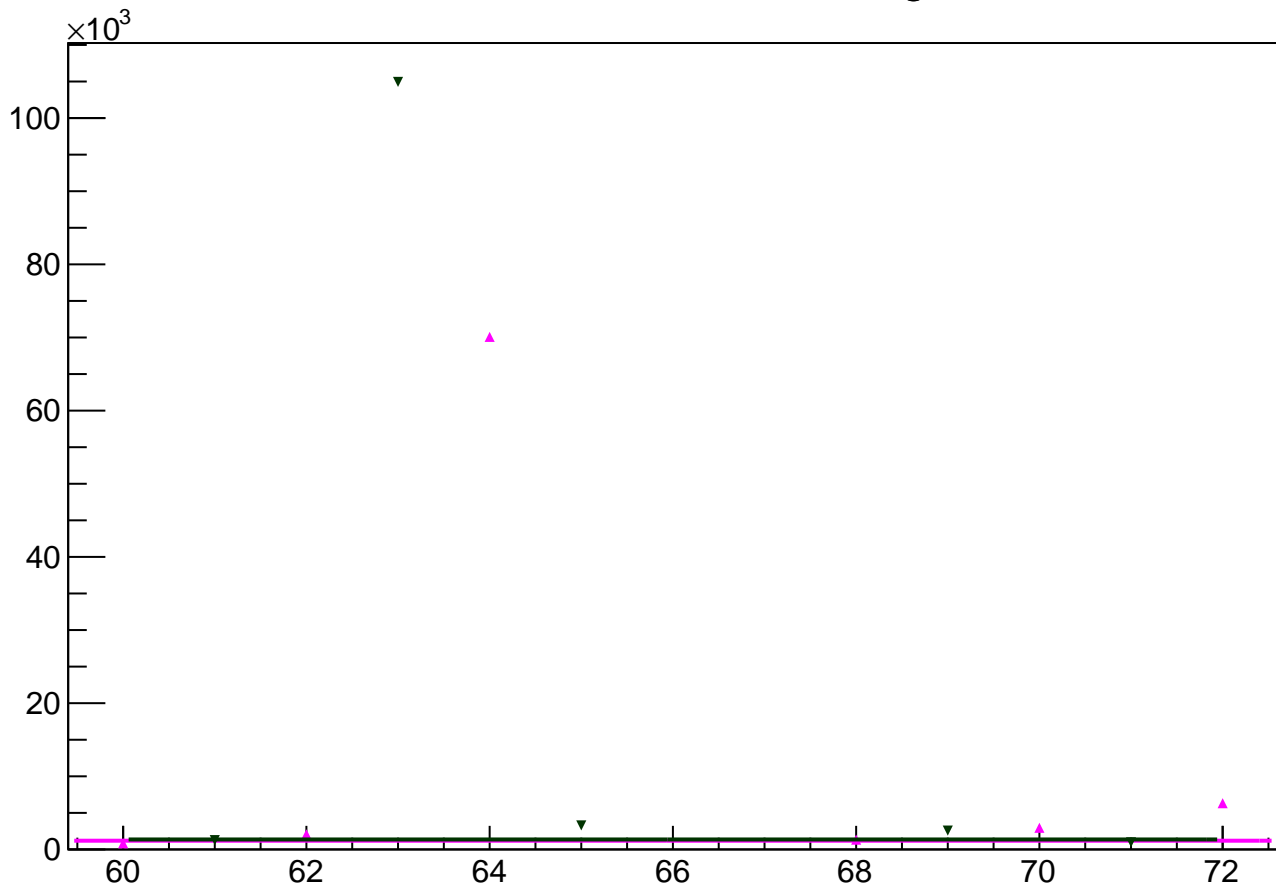
-1.021+/-1.321

$\chi^2$ /NDF: 3.9/5

Left In: -1.021+/-1.321

$\chi^2$ /NDF:3.9/5

# diff\_cav4bX\_rms vs slug



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

Left Out: 1365.542+/-1.292  $\chi^2$ /NDF:1083842.1/4

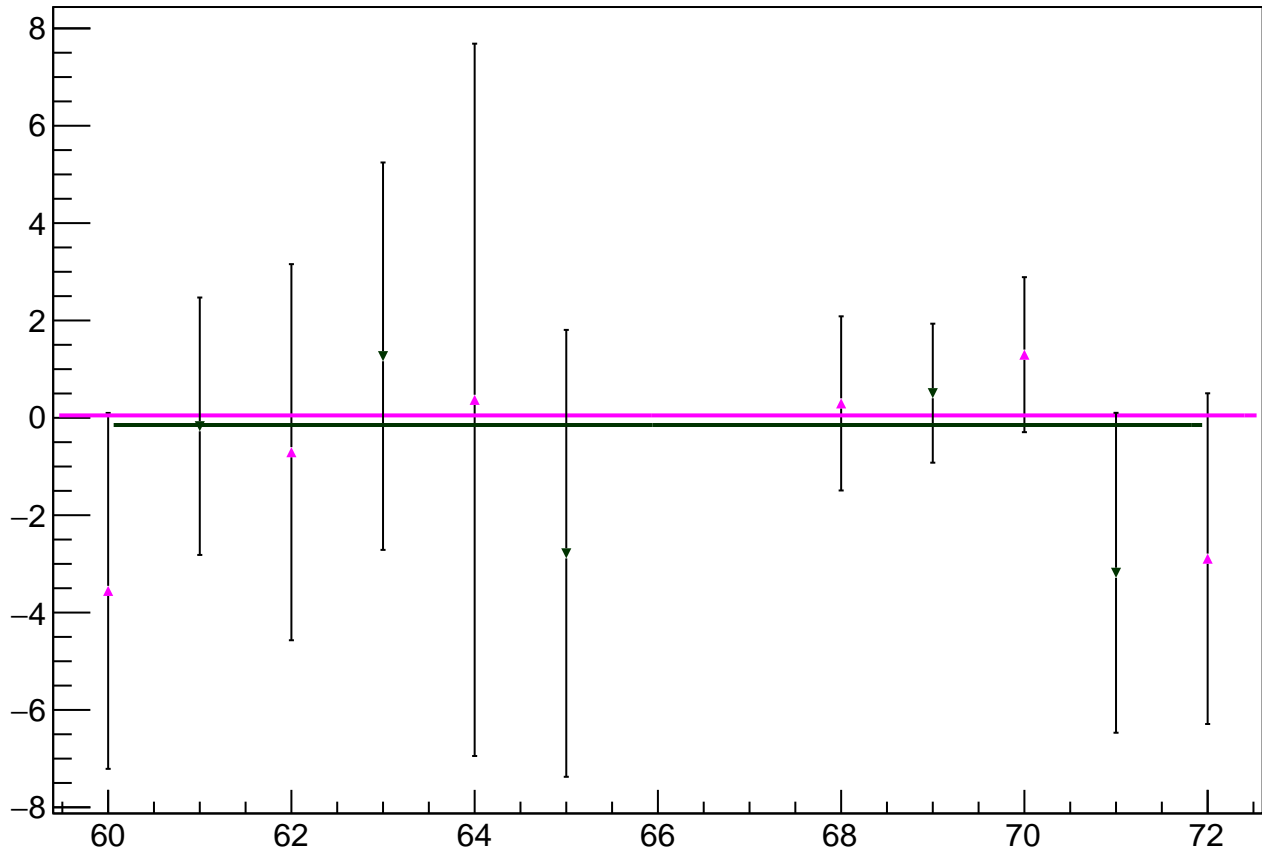
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1195.584+/-0.934  $\chi^2$ /NDF:1133124.5/5

1365.542+/-1.292  $\chi^2$ /NDF: 1083842.1/4

1195.584+/-0.934  $\chi^2$ /NDF: 1133124.5/5

# diff\_cav4bY\_mean vs slug



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

Left Out: -0.147+/-1.093  $\chi^2/\text{NDF}$ : 1.5/4

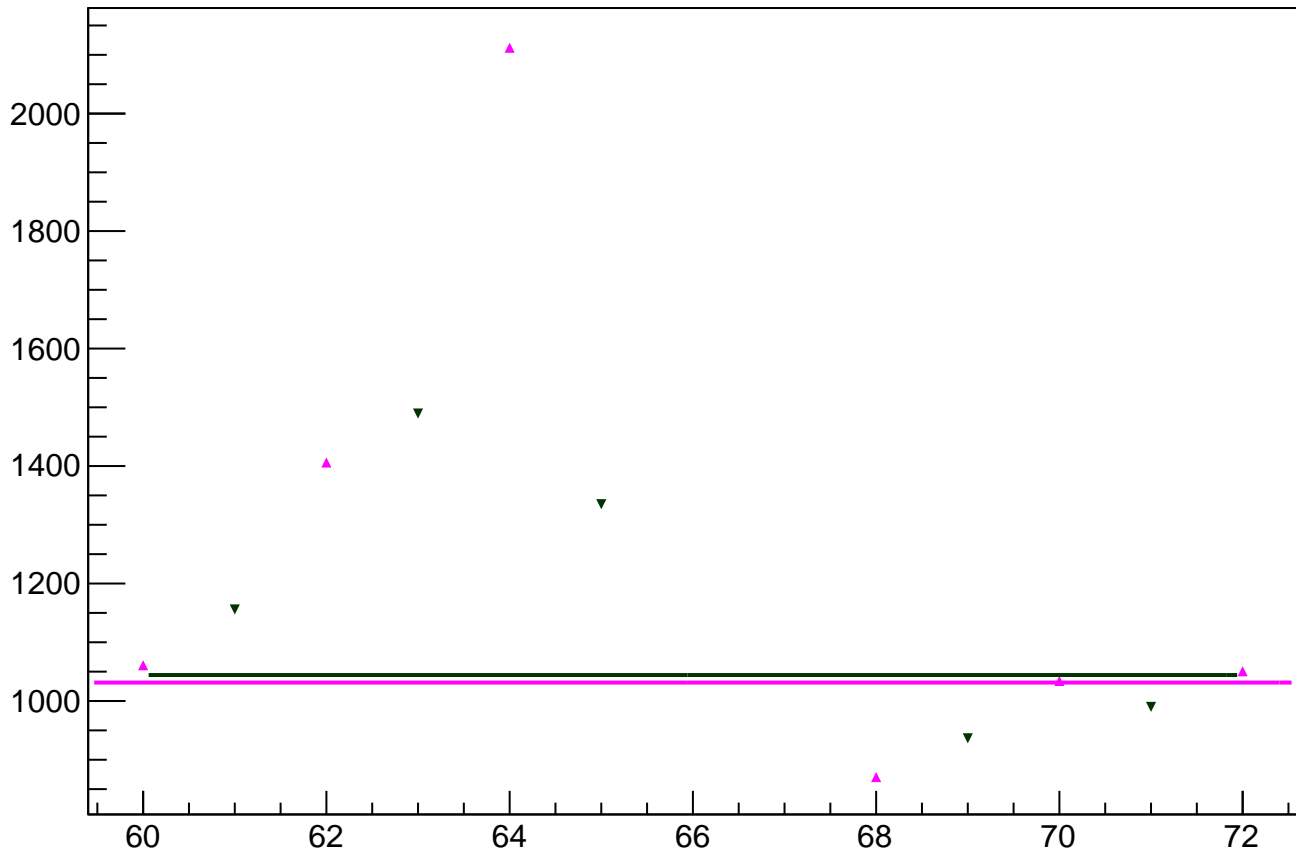
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.050+/-1.024  $\chi^2/\text{NDF}$ : 2.4/5

-0.147+/-1.093  $\chi^2/\text{NDF}$ : 1.5/4

0.050+/-1.024  $\chi^2/\text{NDF}$ : 2.4/5

# diff\_cav4bY\_rms vs slug



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

Left Out: 1044.238+/-0.773  $\chi^2/\text{NDF}$ : 48562.0/4

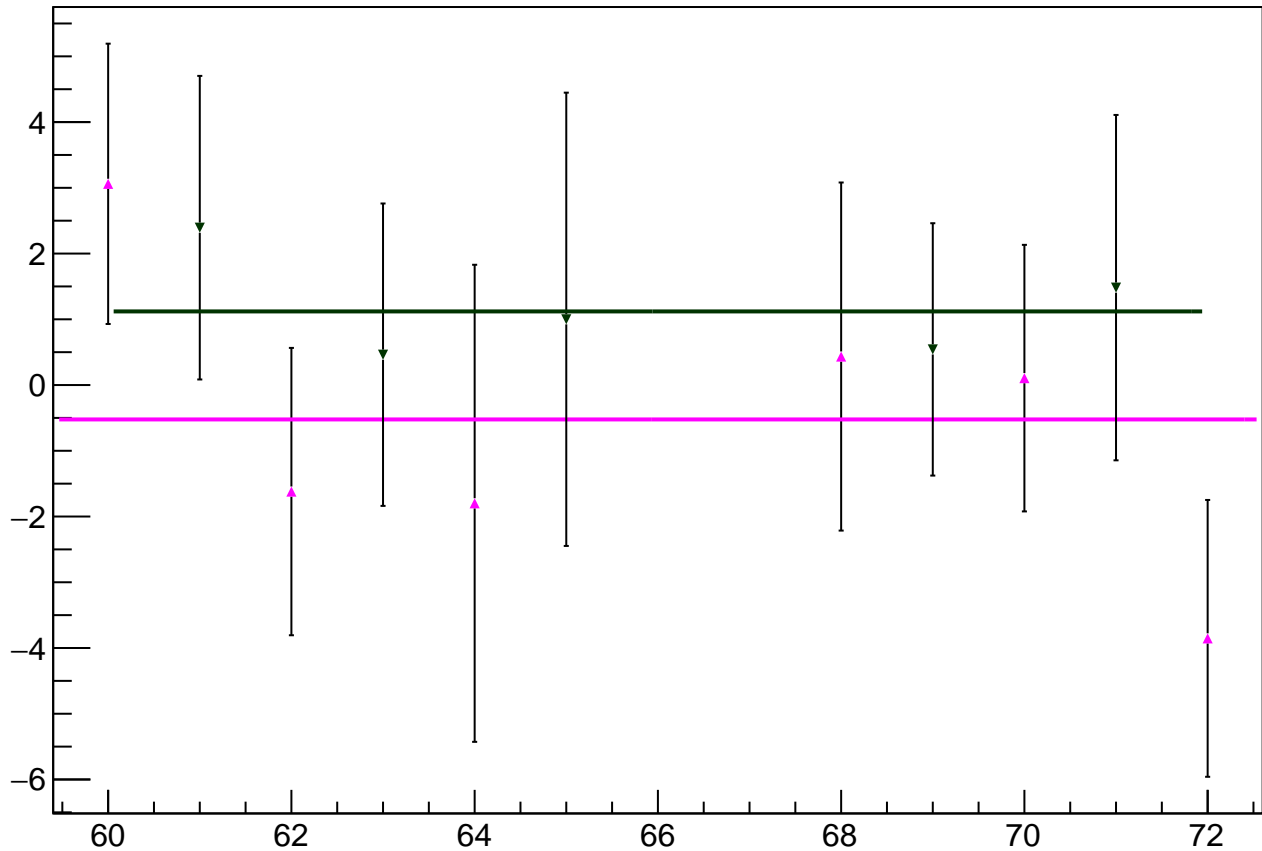
1044.238+/-0.773  $\chi^2/\text{NDF}$ : 48562.0/4

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

1031.413+/-0.724  $\chi^2/\text{NDF}$ : 78834.0/5

Left In: 1031.413+/-0.724  $\chi^2/\text{NDF}$ : 78834.0/5

# diff\_cav4cX\_mean vs slug



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

Left Out: 1.120+/-1.068  $\chi^2/\text{NDF}$ : 0.5/4

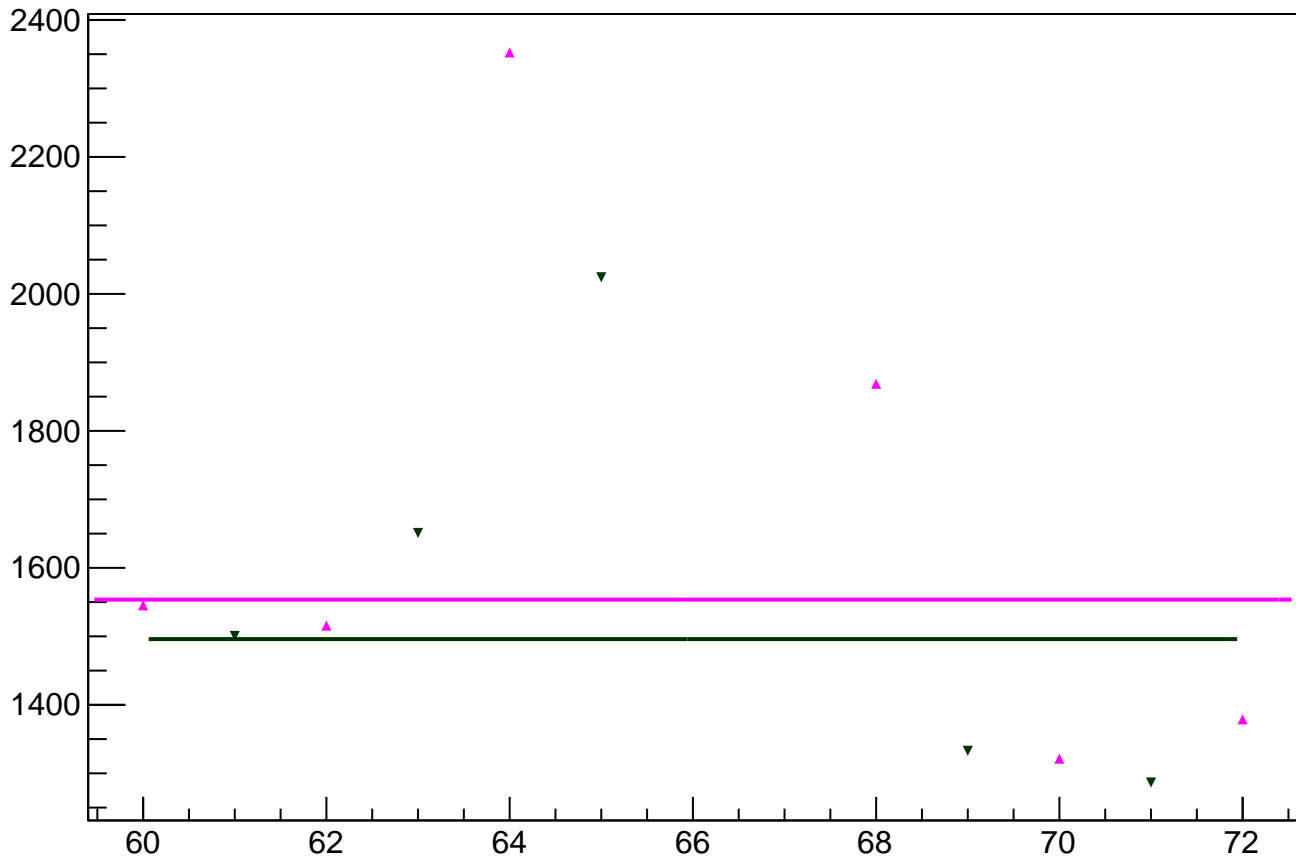
1.120+/-1.068  $\chi^2/\text{NDF}$ : 0.5/4

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

-0.523+/-0.946  $\chi^2/\text{NDF}$ : 5.9/5

Left In: -0.523+/-0.946  $\chi^2/\text{NDF}$ : 5.9/5

# diff\_cav4cX\_rms vs slug



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

Left Out: 1495.991+/-0.755  $\chi^2/\text{NDF}$ : 83198.0/4

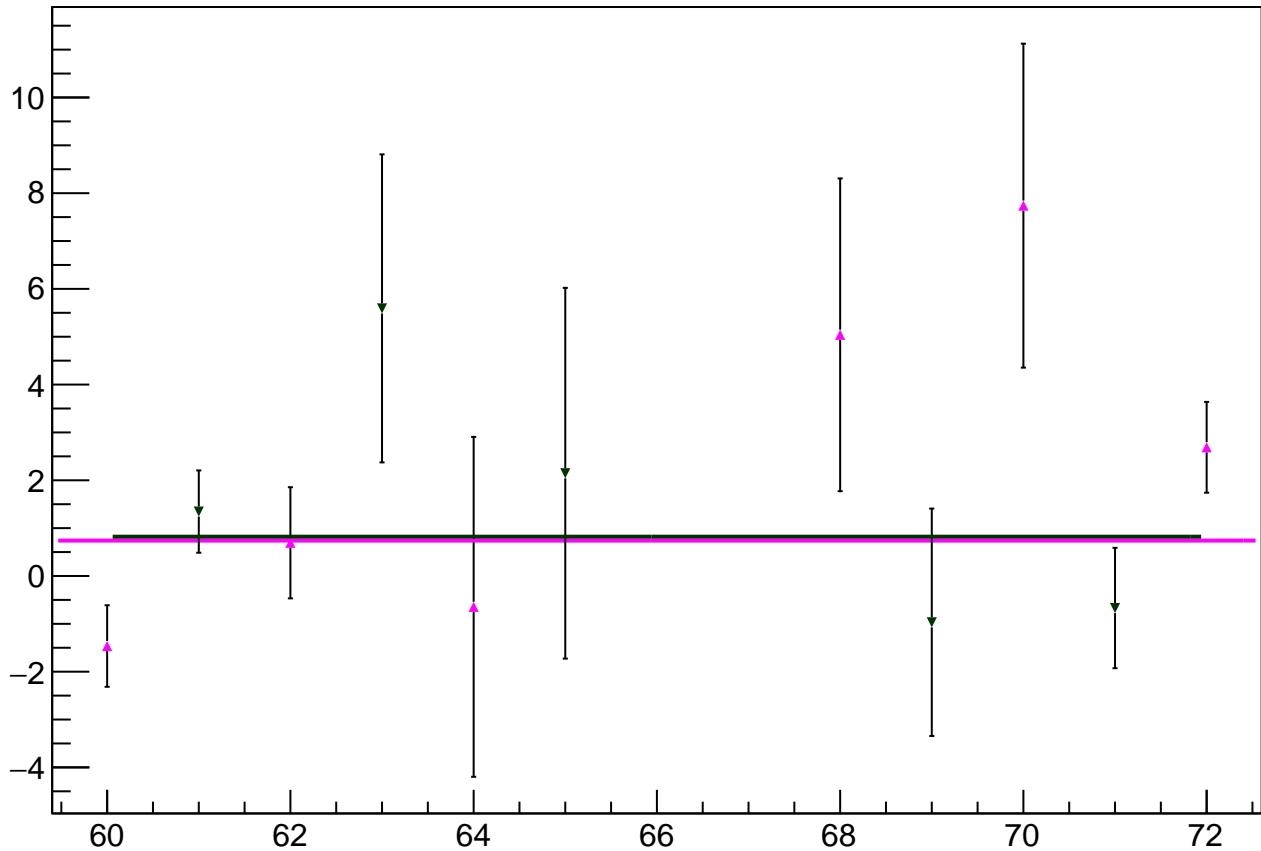
1495.991+/-0.755  $\chi^2/\text{NDF}$ : 83198.0/4

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

1553.628+/-0.669  $\chi^2/\text{NDF}$ : 165936.2/5

Left In: 1553.628+/-0.669  $\chi^2/\text{NDF}$ : 165936.2/5

# diff\_cav4cY\_mean vs slug



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

Left Out: 0.821 $\pm$ 0.656  $\chi^2$ /NDF:4.7/4

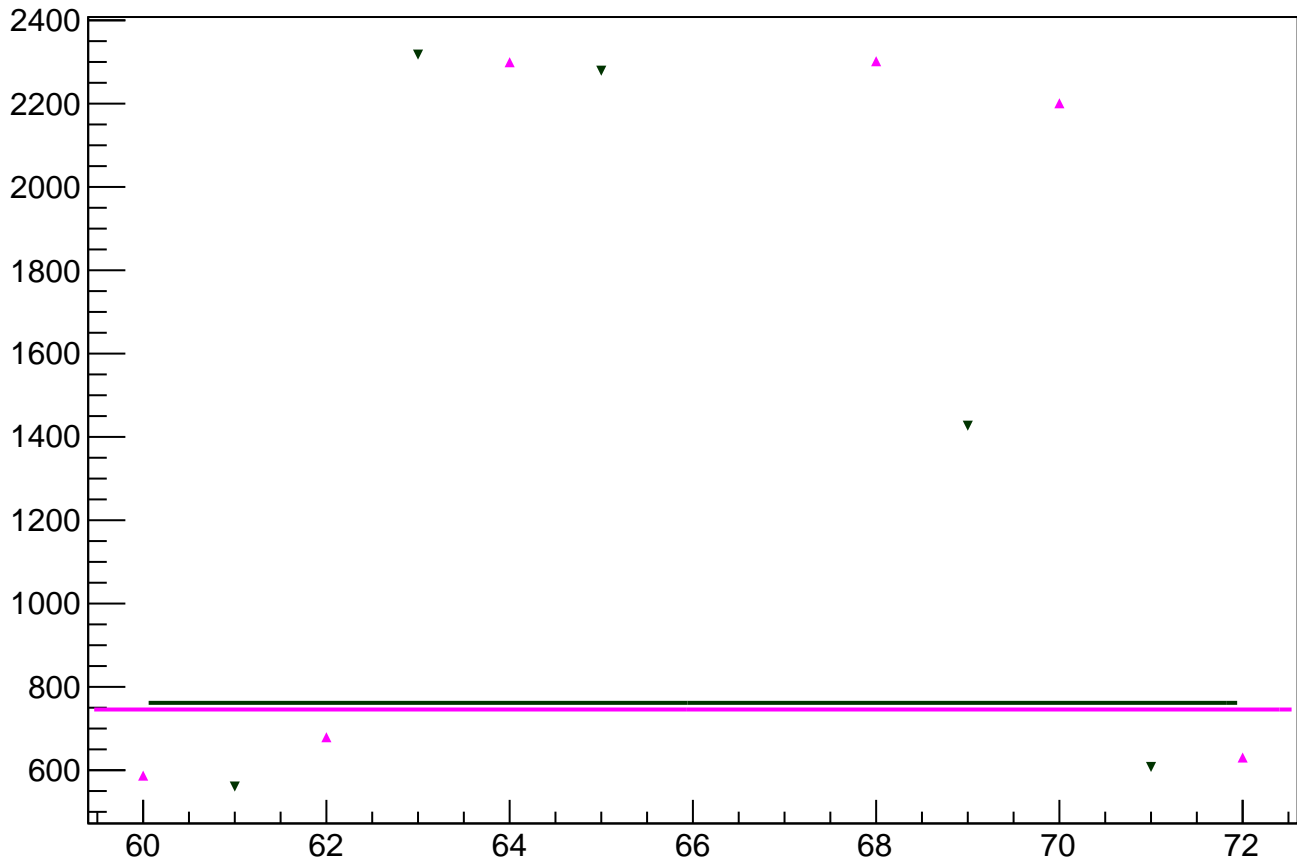
0.821 $\pm$ 0.656  $\chi^2$ /NDF: 4.7/4

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

0.740 $\pm$ 0.535  $\chi^2$ /NDF: 17.1/5

Left In: 0.740 $\pm$ 0.535  $\chi^2$ /NDF:17.1/5

# diff\_cav4cY\_rms vs slug



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

Left Out: 761.673+/-0.464  $\chi^2$ /NDF:1070025.8/4

761.673+/-0.464  $\chi^2$ /NDF: 1070025.8/4

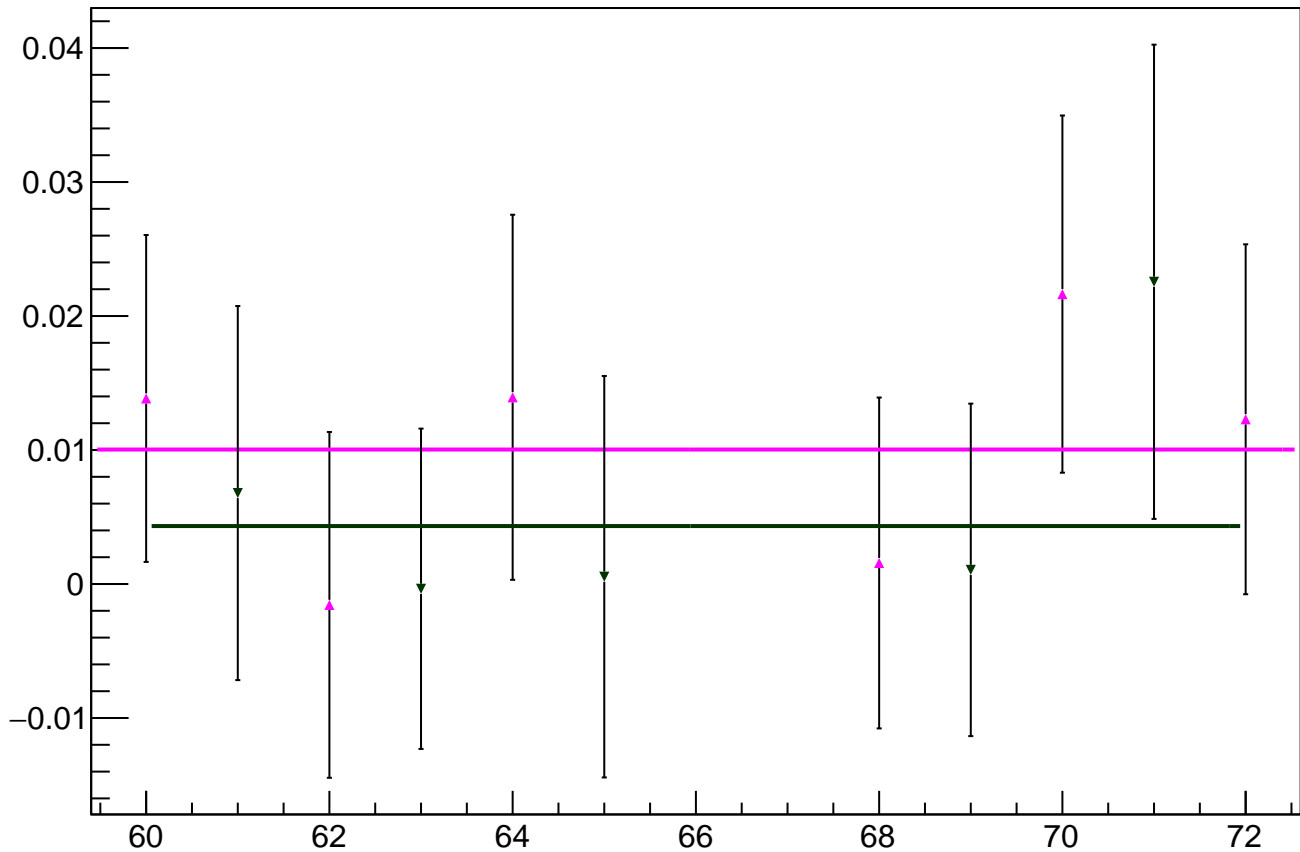
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

745.677+/-0.378  $\chi^2$ /NDF: 1311164.6/5

Left In: 745.677+/-0.378  $\chi^2$ /NDF:1311164.6/5



# diff\_cav4dX\_mean vs slug



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

Left Out: 0.004+/-0.006  $\chi^2/\text{NDF}$ : 1.4/4

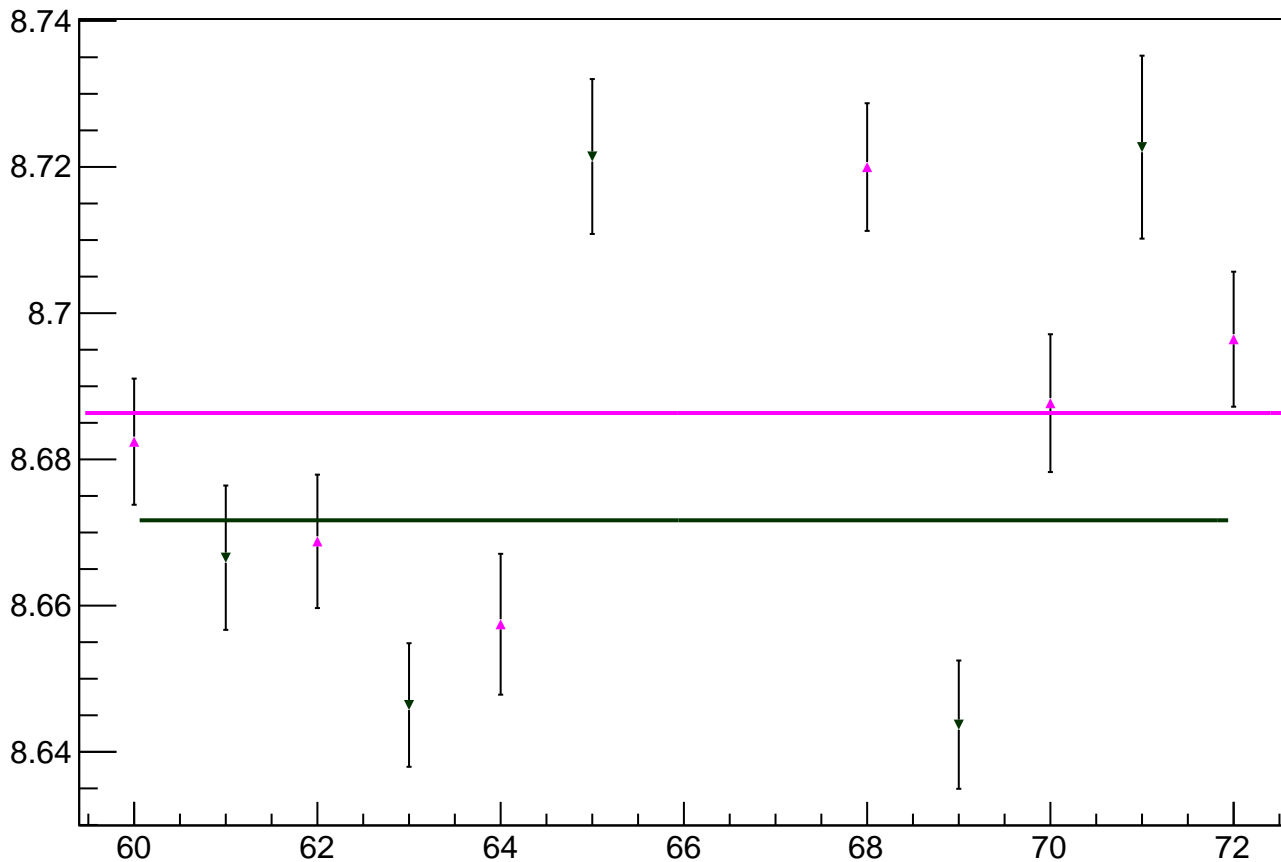
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.010+/-0.005  $\chi^2/\text{NDF}$ : 2.2/5

0.004+/-0.006  $\chi^2/\text{NDF}$ : 1.4/4

0.010+/-0.005  $\chi^2/\text{NDF}$ : 2.2/5

# diff\_cav4dX\_rms vs slug



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

Left Out: 8.672+/-0.004  $\chi^2$ /NDF:58.1/4

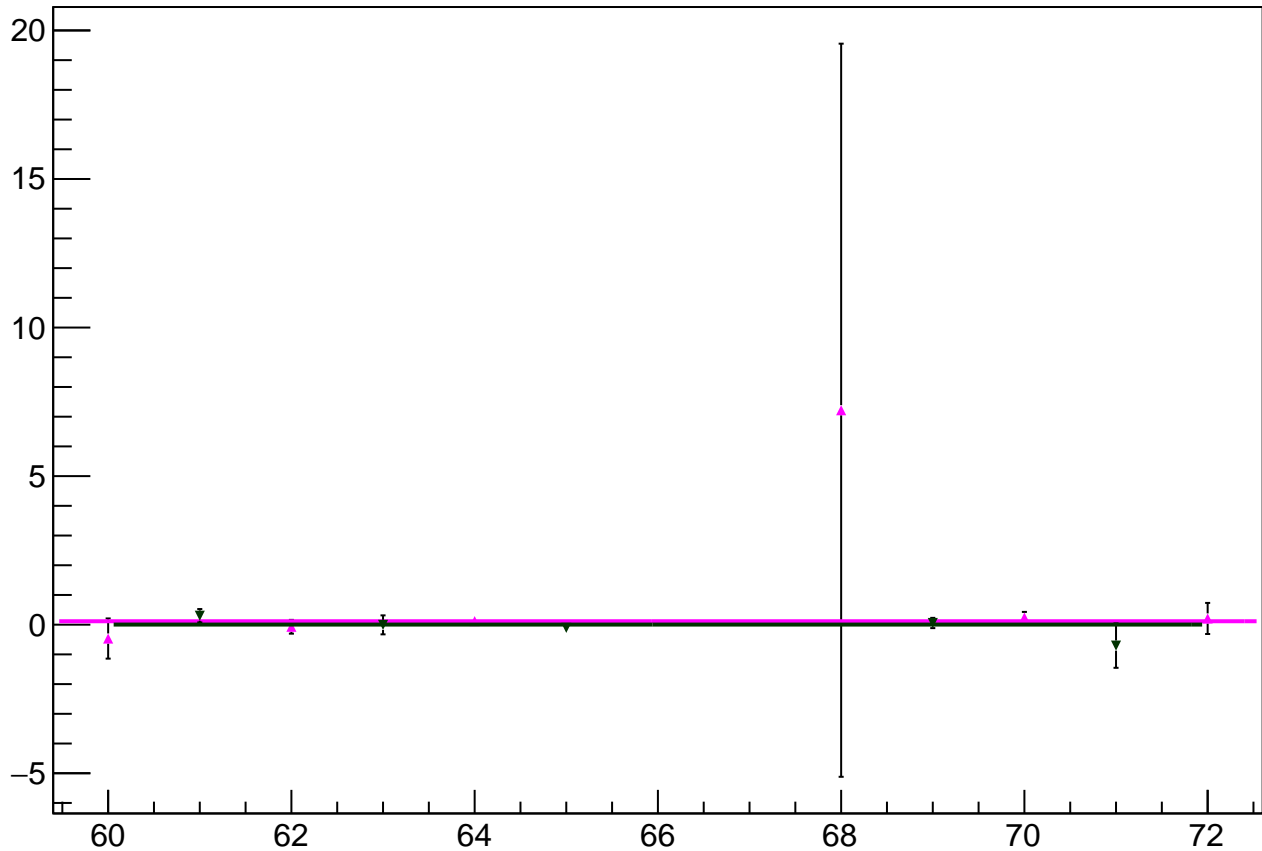
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 8.686+/-0.004  $\chi^2$ /NDF:29.0/5

8.672+/-0.004  $\chi^2$ /NDF: 58.1/4

8.686+/-0.004  $\chi^2$ /NDF: 29.0/5

# diff\_cav4dY\_mean vs slug



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

Left Out: 0.004+/-0.091  $\chi^2/\text{NDF}$ : 3.4/4

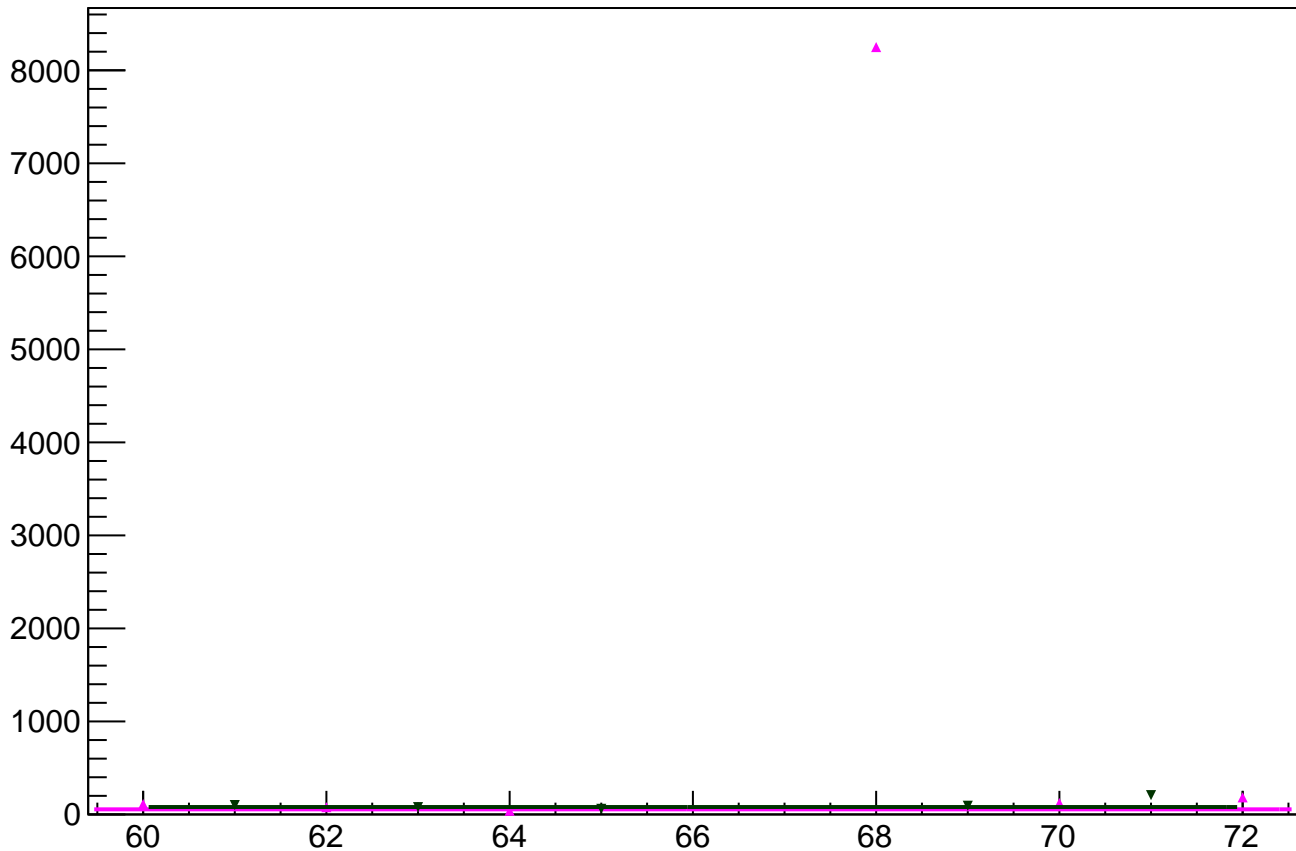
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.116+/-0.063  $\chi^2/\text{NDF}$ : 2.2/5

0.004+/-0.091  $\chi^2/\text{NDF}$ : 3.4/4

0.116+/-0.063  $\chi^2/\text{NDF}$ : 2.2/5

# diff\_cav4dY\_rms vs slug



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

Left Out: 79.736+/-0.064  $\chi^2$ /NDF:131896.9/4

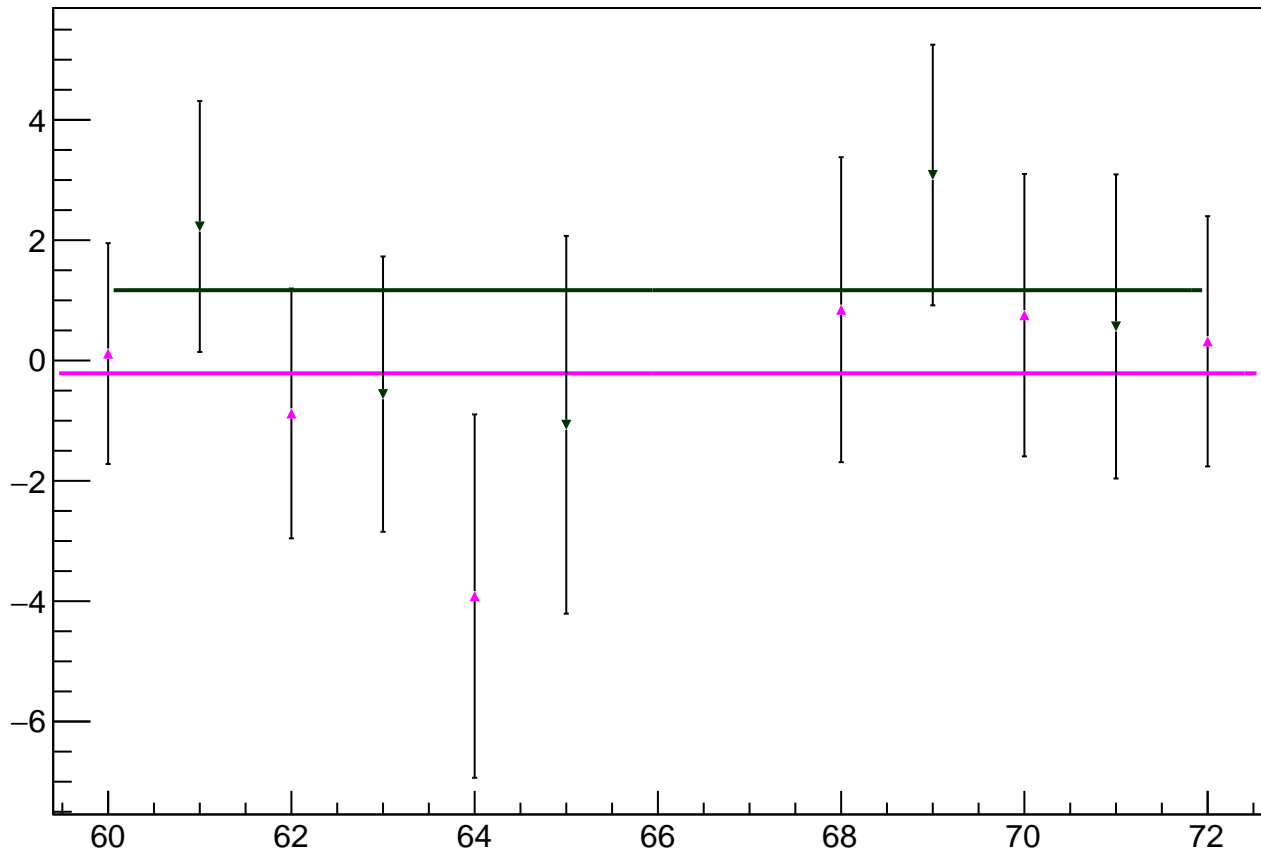
79.736+/-0.064  $\chi^2$ /NDF: 131896.9/4

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

55.008+/-0.045  $\chi^2$ /NDF: 1387574.6/5

Left In: 55.008+/-0.045  $\chi^2$ /NDF:1387574.6/5

# diff\_bpm4aX\_mean vs slug



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

Left Out: 1.169+/-1.059  $\chi^2/NDF: 2.2/4$

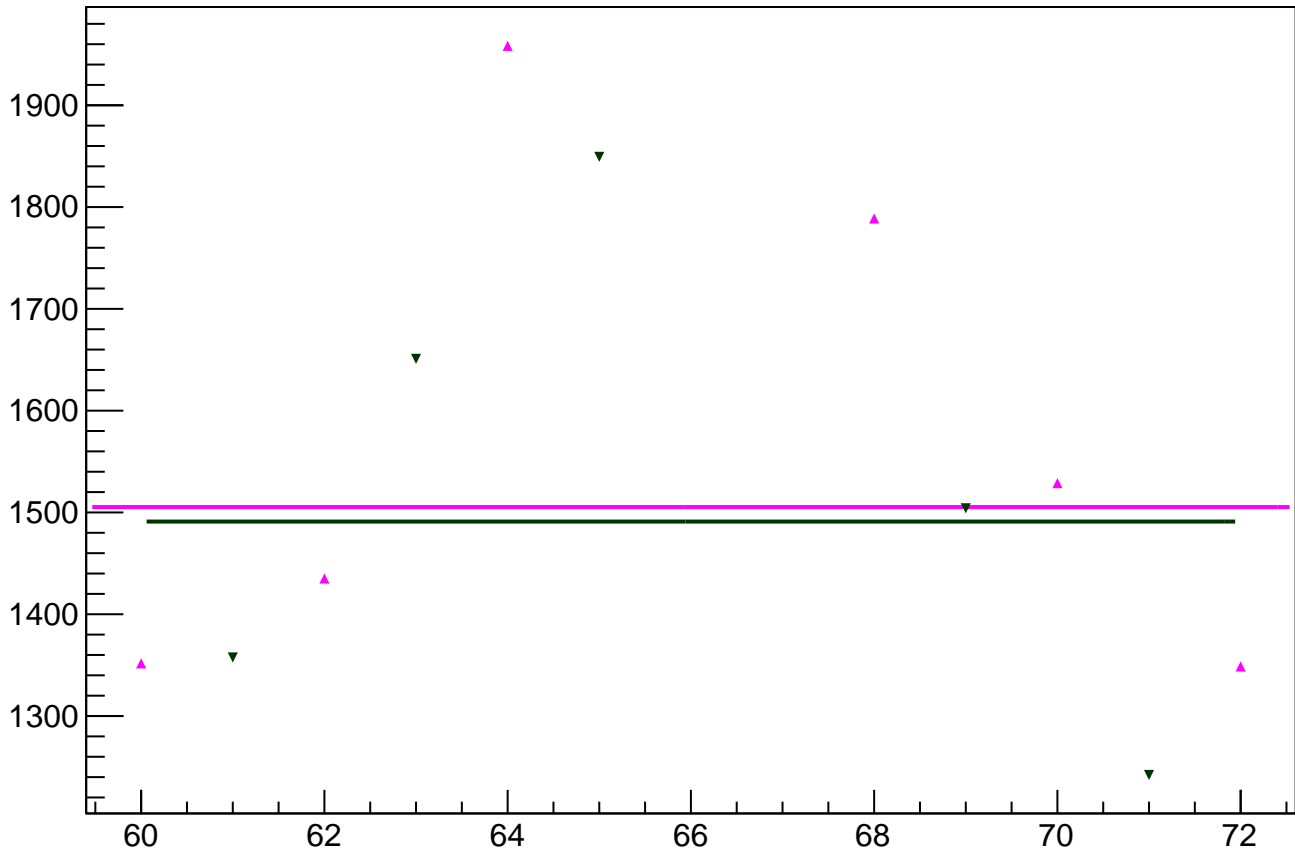
1.169+/-1.059  $\chi^2/NDF: 2.2/4$

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

-0.213+/-0.910  $\chi^2/NDF: 2.0/5$

Left In: -0.213+/-0.910  $\chi^2/NDF: 2.0/5$

# diff\_bpm4aX\_rms vs slug



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

Left Out: 1491.053+/-0.749  $\chi^2/\text{NDF}$ : 63485.2/4

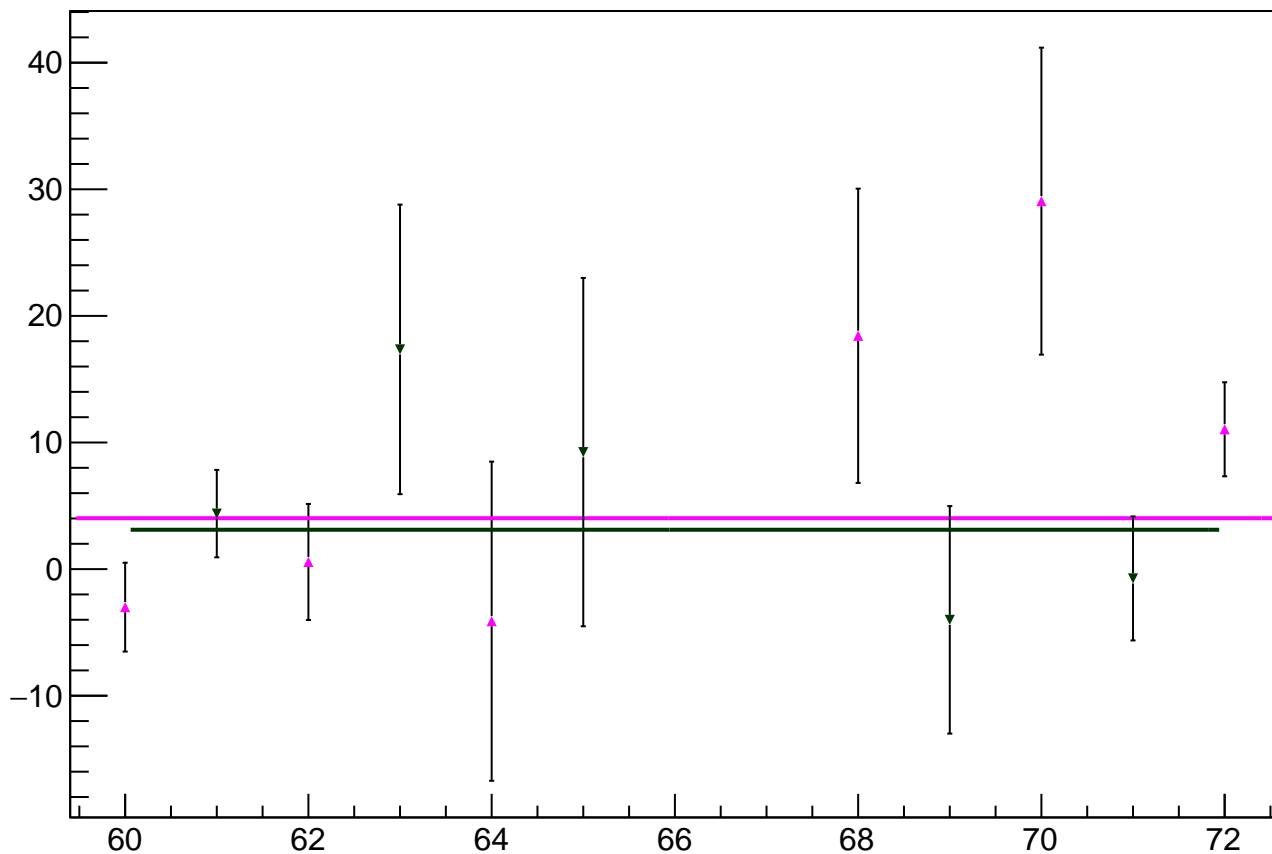
1491.053+/-0.749  $\chi^2/\text{NDF}$ : 63485.2/4

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

1505.333+/-0.644  $\chi^2/\text{NDF}$ : 97852.7/5

Left In: 1505.333+/-0.644  $\chi^2/\text{NDF}$ : 97852.7/5

# diff\_bpm4aY\_mean vs slug



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

Left Out: 3.109+/-2.574  $\chi^2/\text{NDF}$ : 3.1/4

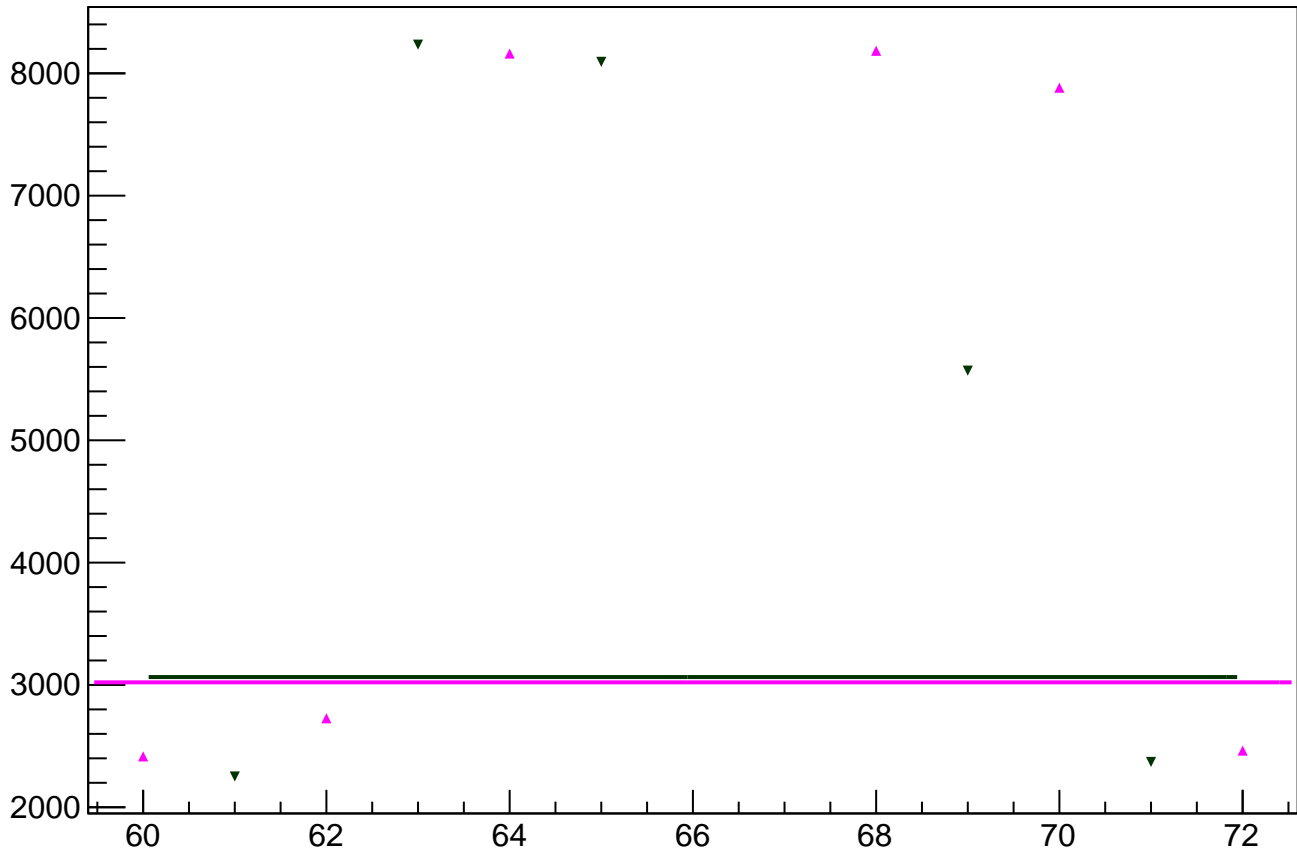
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.020+/-2.123  $\chi^2/\text{NDF}$ : 14.4/5

3.109+/-2.574  $\chi^2/\text{NDF}$ : 3.1/4

4.020+/-2.123  $\chi^2/\text{NDF}$ : 14.4/5

# diff\_bpm4aY\_rms vs slug



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

3064.395+/-1.820  $\chi^2$ /NDF: 982669.6/4

Left Out: 3064.395+/-1.820  $\chi^2$ /NDF:982669.6/4

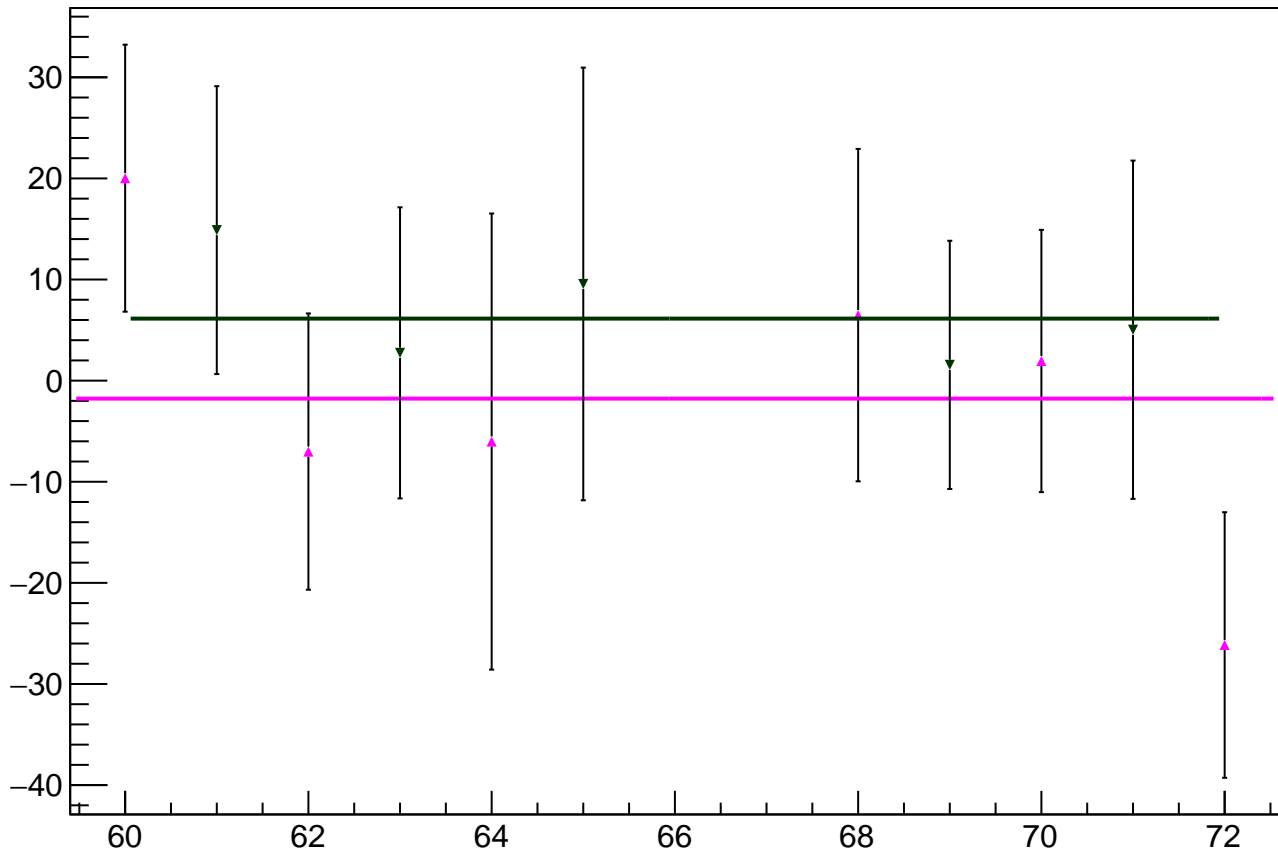
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

3021.265+/-1.501  $\chi^2$ /NDF: 1162001.0/5

Left In: 3021.265+/-1.501  $\chi^2$ /NDF:1162001.0/5



# diff\_bpm4eX\_mean vs slug



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

Left Out: 6.136+/-6.718  $\chi^2/NDF: 0.6/4$

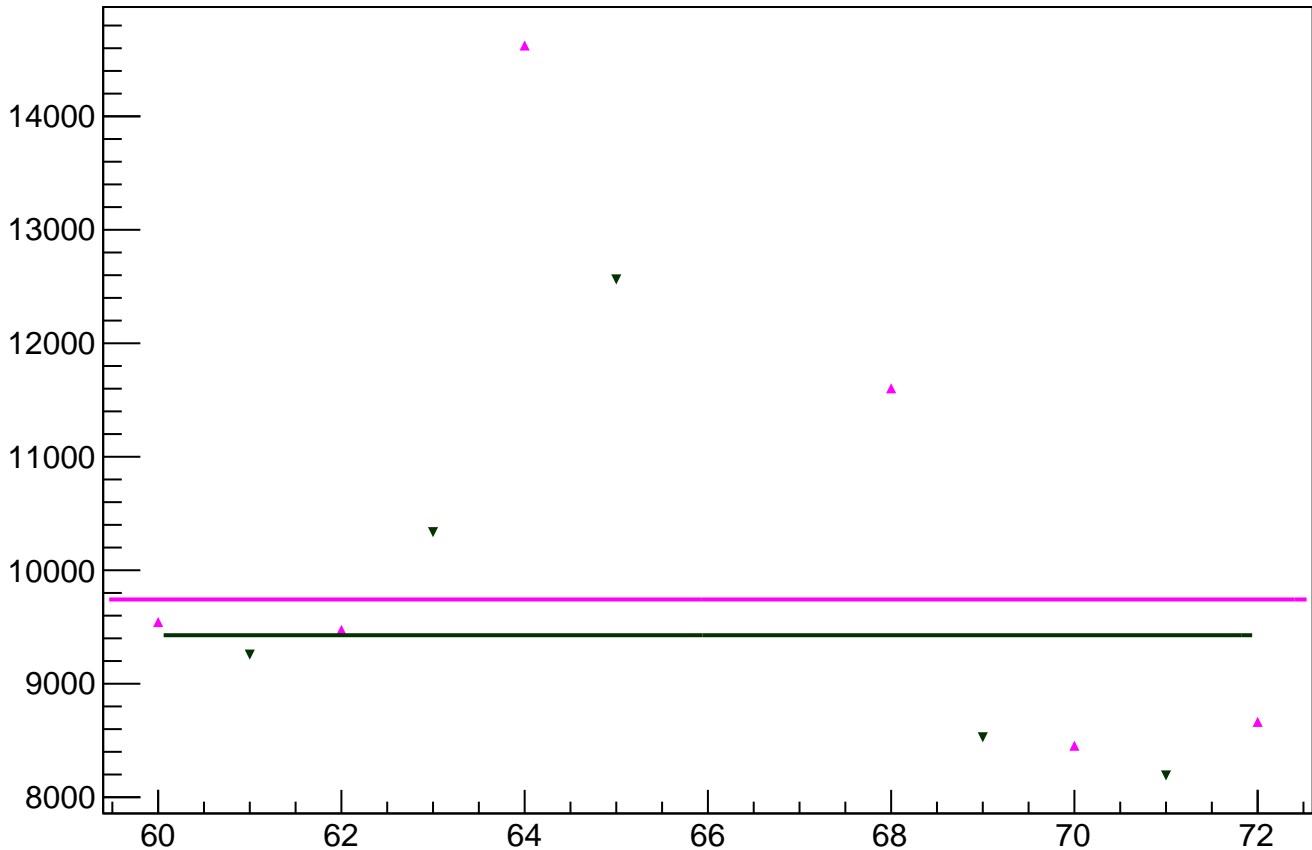
6.136+/-6.718  $\chi^2/NDF: 0.6/4$

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

-1.776+/-5.923  $\chi^2/NDF: 6.7/5$

Left In: -1.776+/-5.923  $\chi^2/NDF: 6.7/5$

# diff\_bpm4eX\_rms vs slug



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

Left Out: 9427.479+/-4.750  $\chi^2$ /NDF:72849.5/4

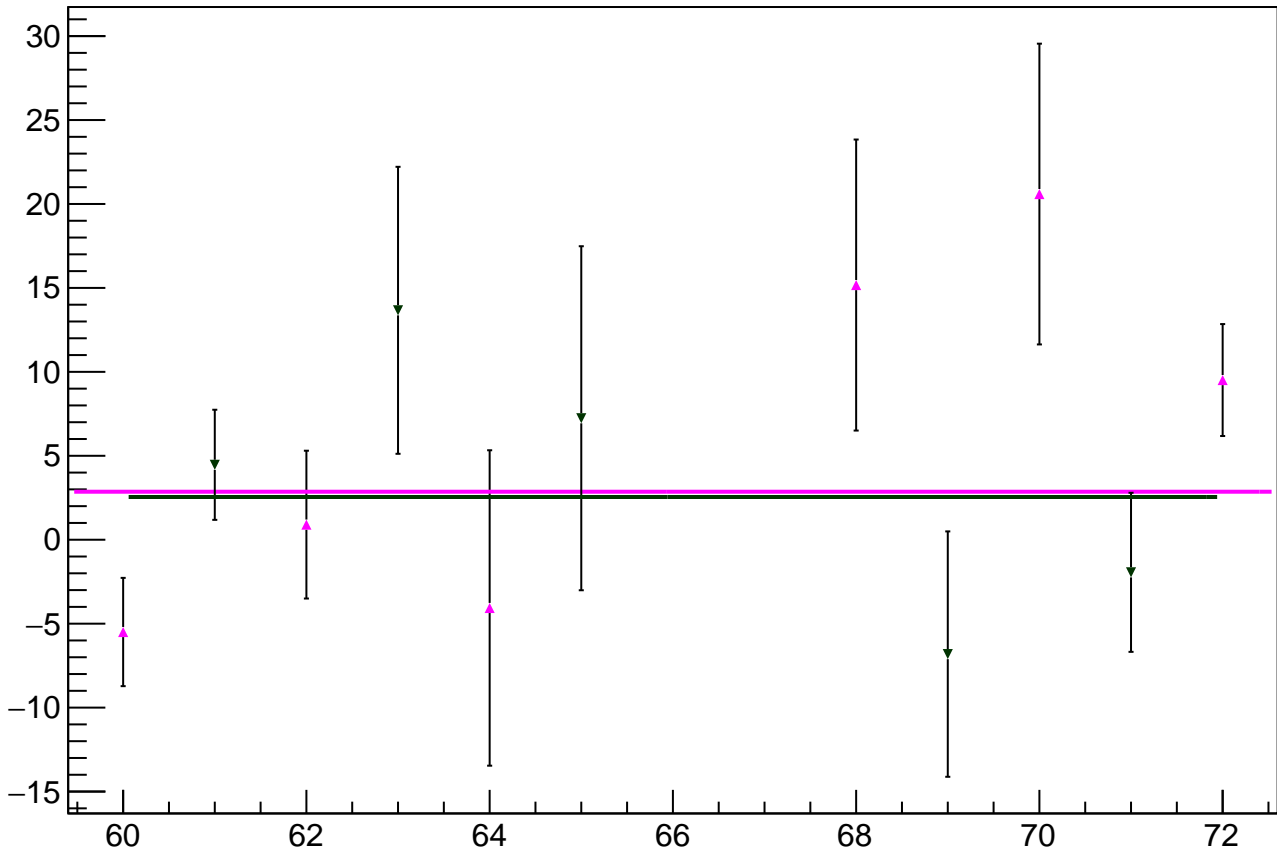
9427.479+/-4.750  $\chi^2$ /NDF: 72849.5/4

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

9742.524+/-4.188  $\chi^2$ /NDF: 153779.4/5

Left In: 9742.524+/-4.188  $\chi^2$ /NDF:153779.4/5

# diff\_bpm4eY\_mean vs slug



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

Left Out: 2.546+/-2.361  $\chi^2/\text{NDF}$ : 4.8/4

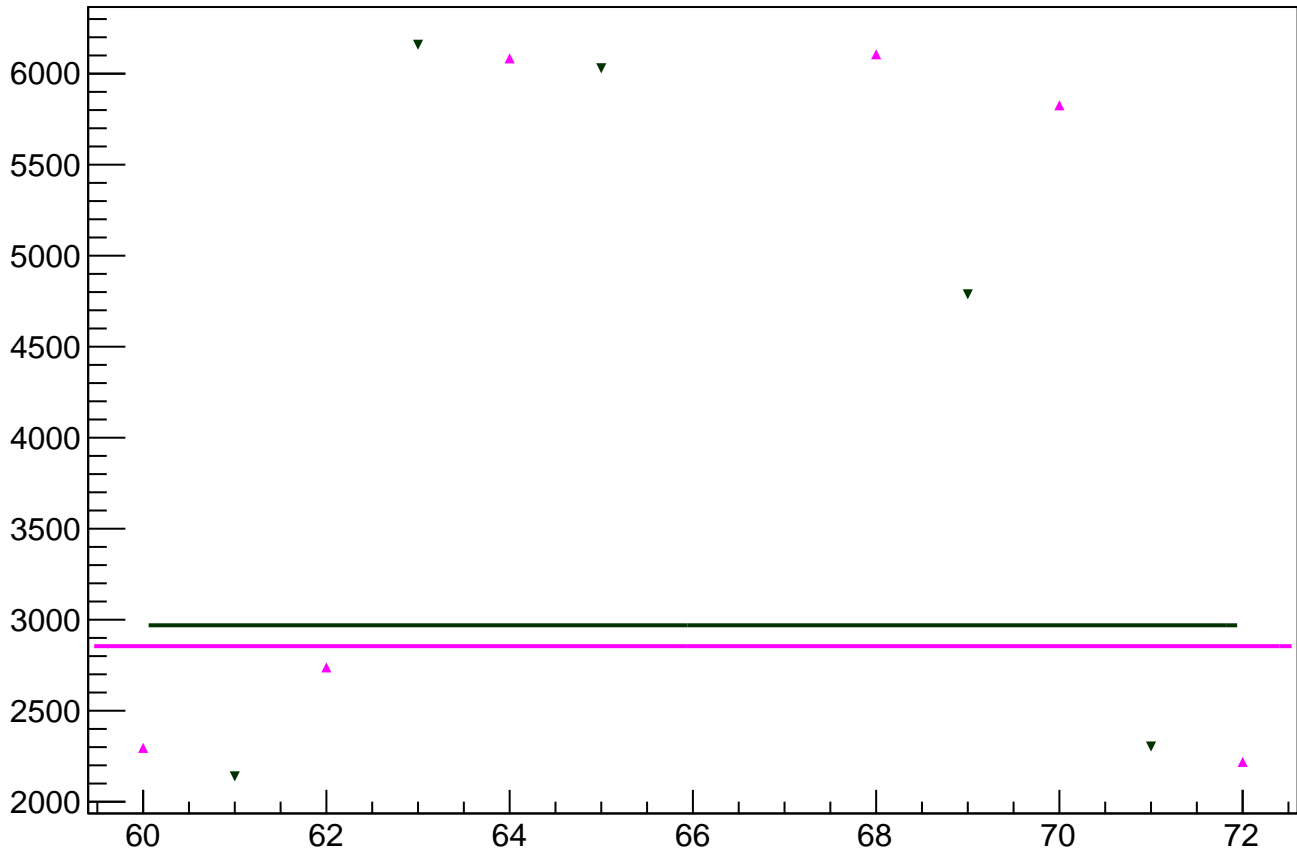
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 2.860+/-1.908  $\chi^2/\text{NDF}$ : 17.4/5

2.546+/-2.361  $\chi^2/\text{NDF}$ : 4.8/4

2.860+/-1.908  $\chi^2/\text{NDF}$ : 17.4/5

# diff\_bpm4eY\_rms vs slug



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

2969.349+/-1.669  $\chi^2/\text{NDF}$ : 748318.7/4

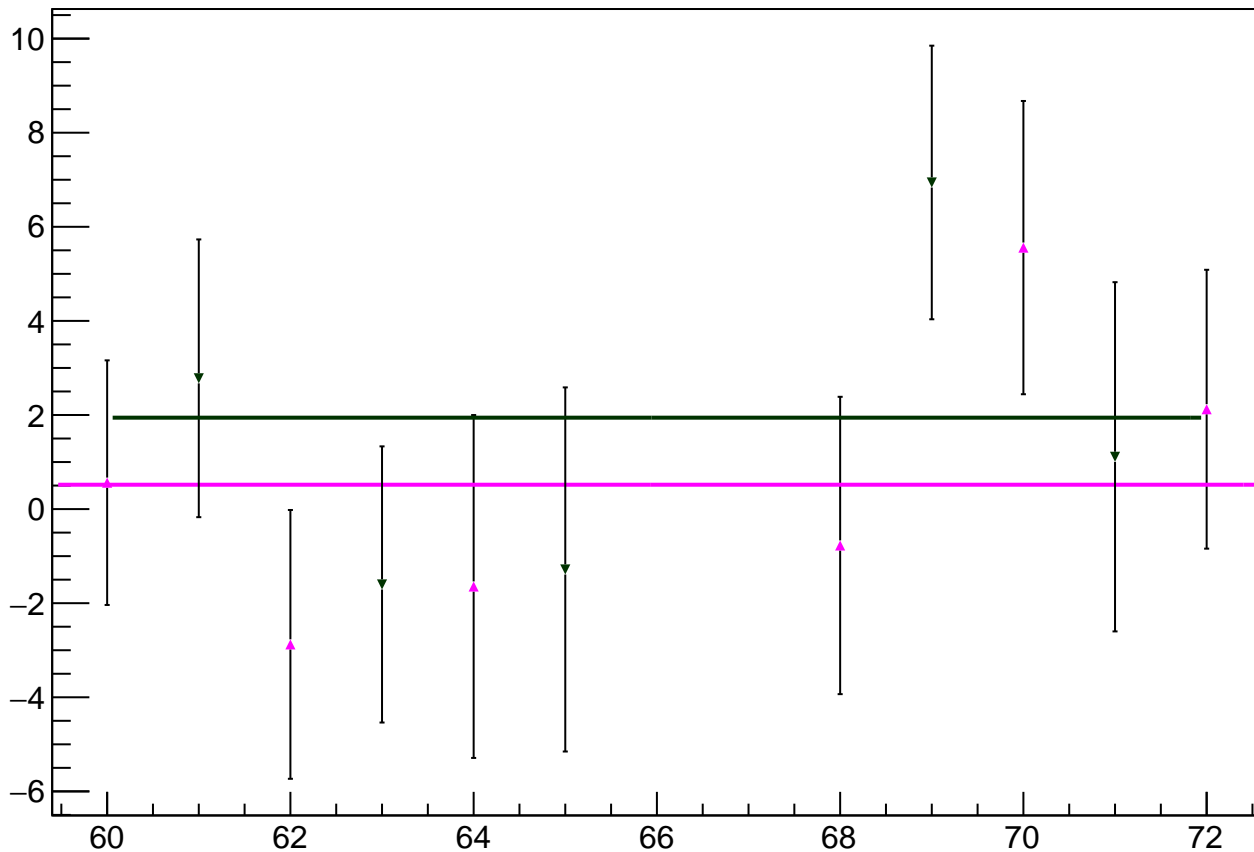
Left Out: 2969.349+/-1.669  $\chi^2/\text{NDF}$ : 748318.7/4

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

2854.666+/-1.349  $\chi^2/\text{NDF}$ : 872075.0/5

Left In: 2854.666+/-1.349  $\chi^2/\text{NDF}$ : 872075.0/5

# diff\_bpm4acX\_mean vs slug



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

Left Out: 1.943+/-1.431  $\chi^2$ /NDF: 5.2/4

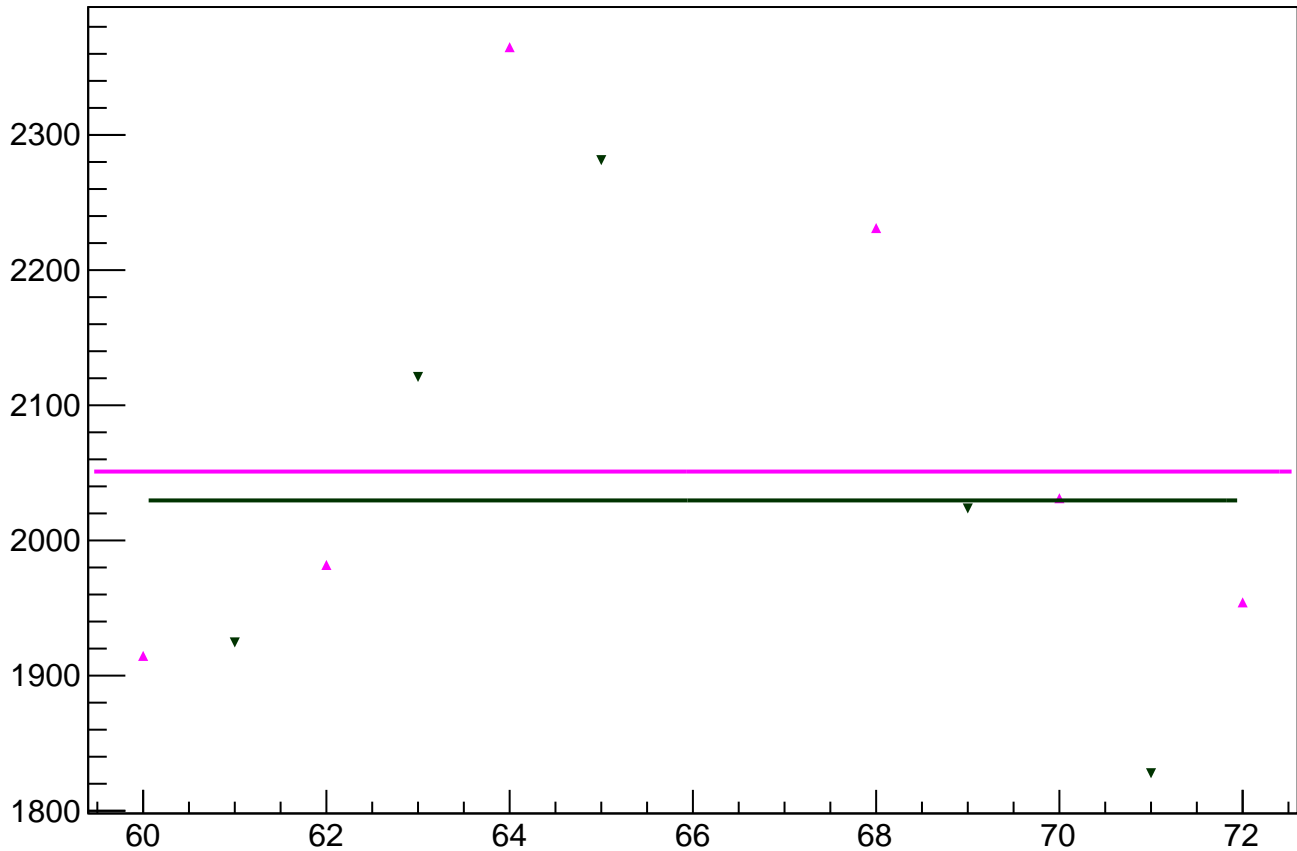
1.943+/-1.431  $\chi^2$ /NDF: 5.2/4

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

0.518+/-1.228  $\chi^2$ /NDF: 4.8/5

Left In: 0.518+/-1.228  $\chi^2$ /NDF: 4.8/5

# diff\_bpm4acX\_rms vs slug



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

Left Out: 2029.611+/-1.012  $\chi^2/\text{NDF}$ : 18858.6/4

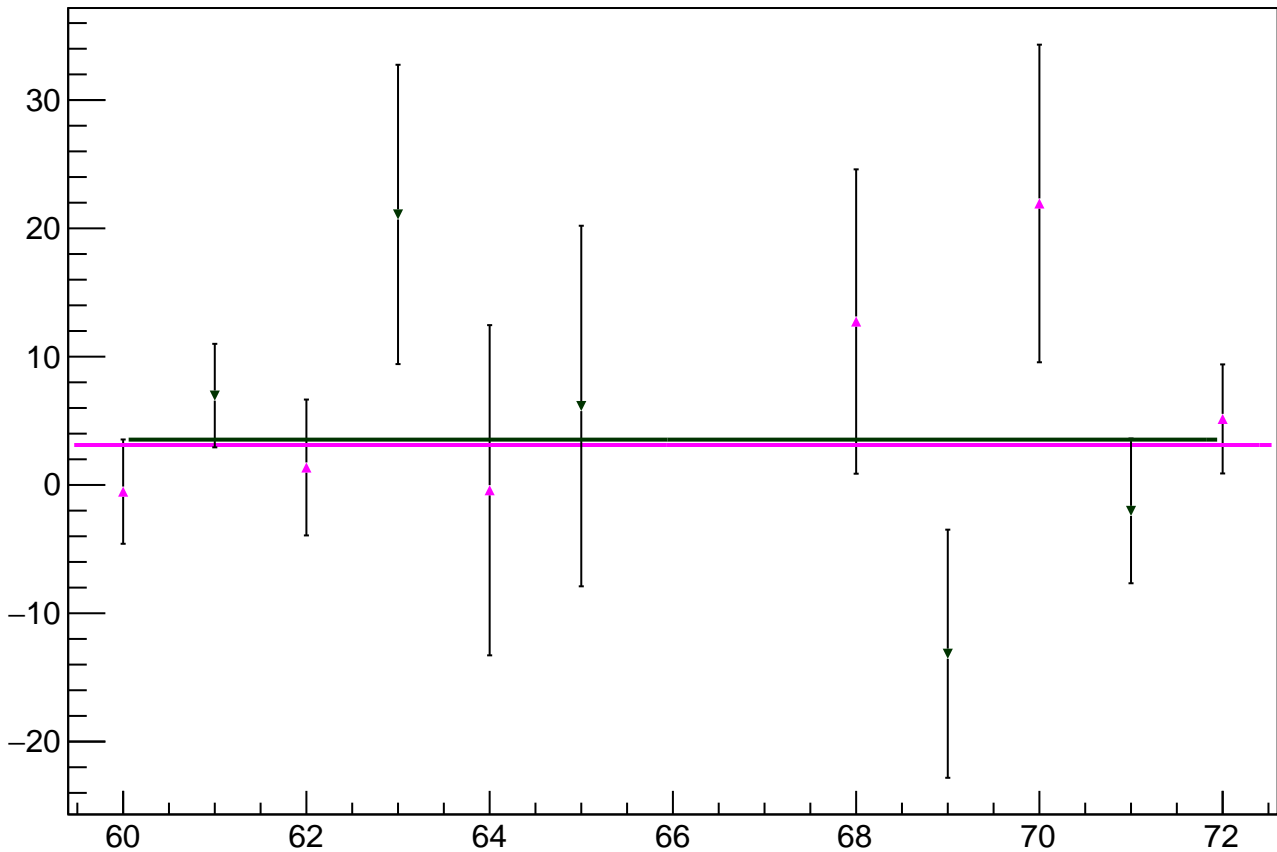
2029.611+/-1.012  $\chi^2/\text{NDF}$ : 18858.6/4

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

2050.969+/-0.869  $\chi^2/\text{NDF}$ : 30235.7/5

Left In: 2050.969+/-0.869  $\chi^2/\text{NDF}$ : 30235.7/5

# diff\_bpm4acY\_mean vs slug



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

Left Out: 3.534+/-2.936  $\chi^2/\text{NDF}$ : 7.0/4

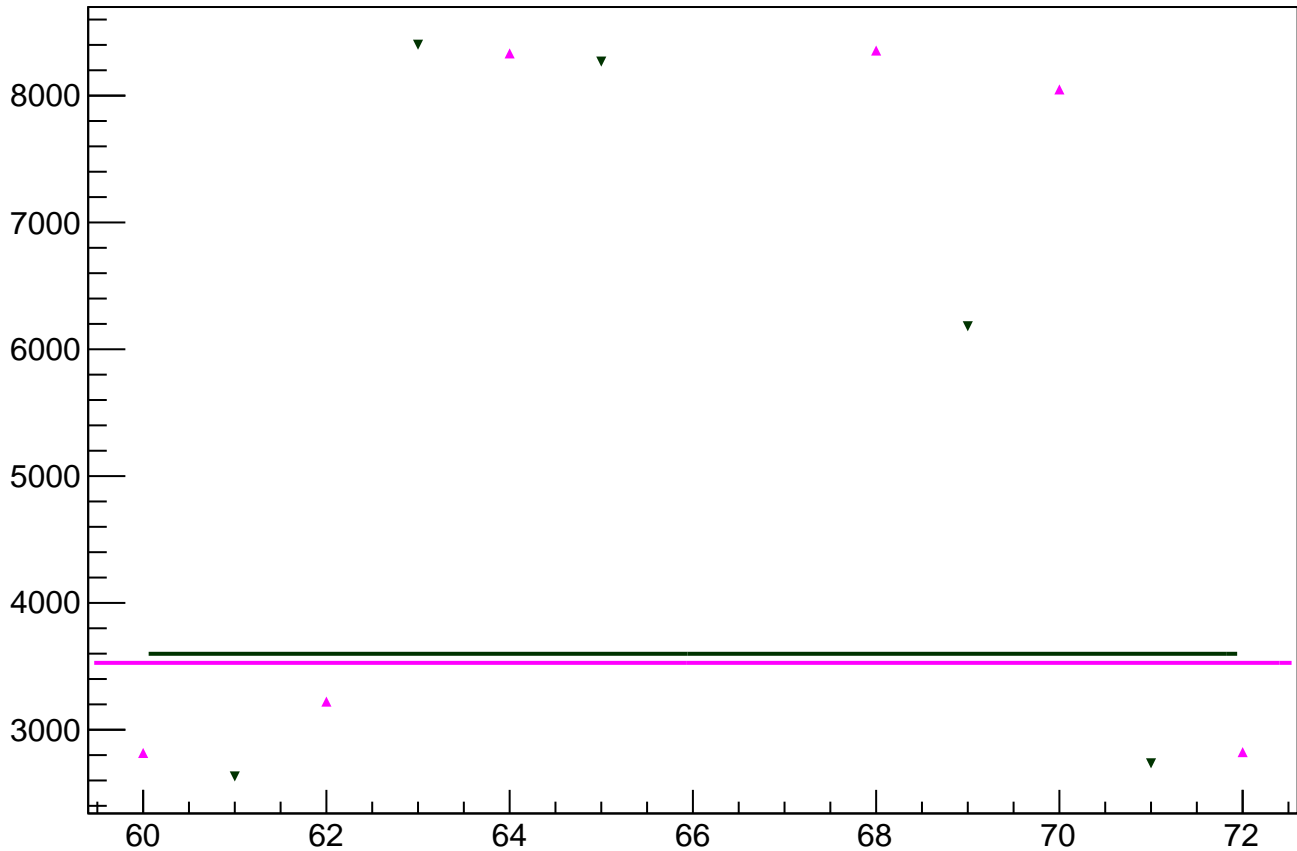
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 3.115+/-2.417  $\chi^2/\text{NDF}$ : 4.2/5

3.534+/-2.936  $\chi^2/\text{NDF}$ : 7.0/4

3.115+/-2.417  $\chi^2/\text{NDF}$ : 4.2/5

# diff\_bpm4acY\_rms vs slug



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

3598.880+/-2.076  $\chi^2/\text{NDF}$ : 864404.1/4

Left Out: 3598.880+/-2.076  $\chi^2/\text{NDF}$ : 864404.1/4

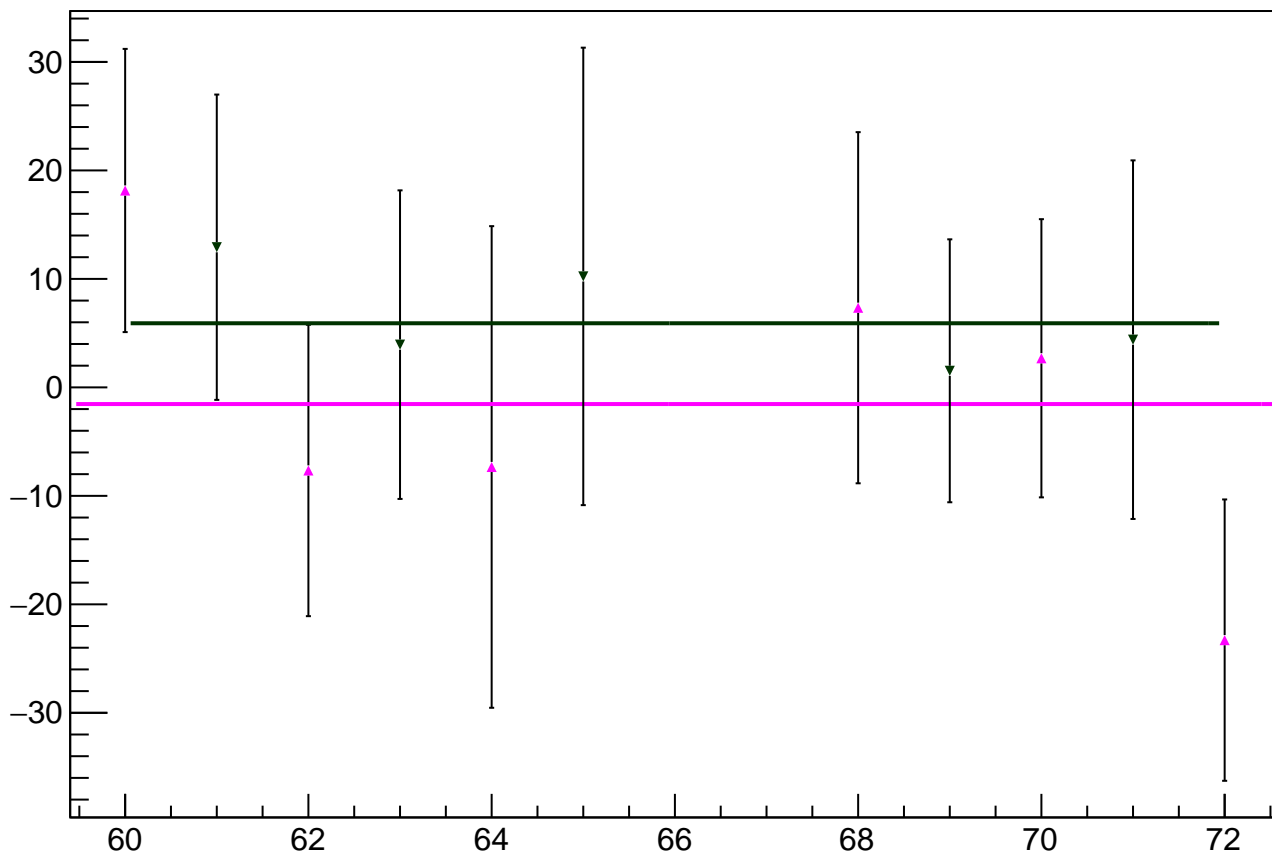
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

3527.417+/-1.709  $\chi^2/\text{NDF}$ : 999829.4/5

Left In: 3527.417+/-1.709  $\chi^2/\text{NDF}$ : 999829.4/5



# diff\_bpm4ecX\_mean vs slug



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

Left Out: 5.910+/-6.636  $\chi^2/NDF: 0.4/4$

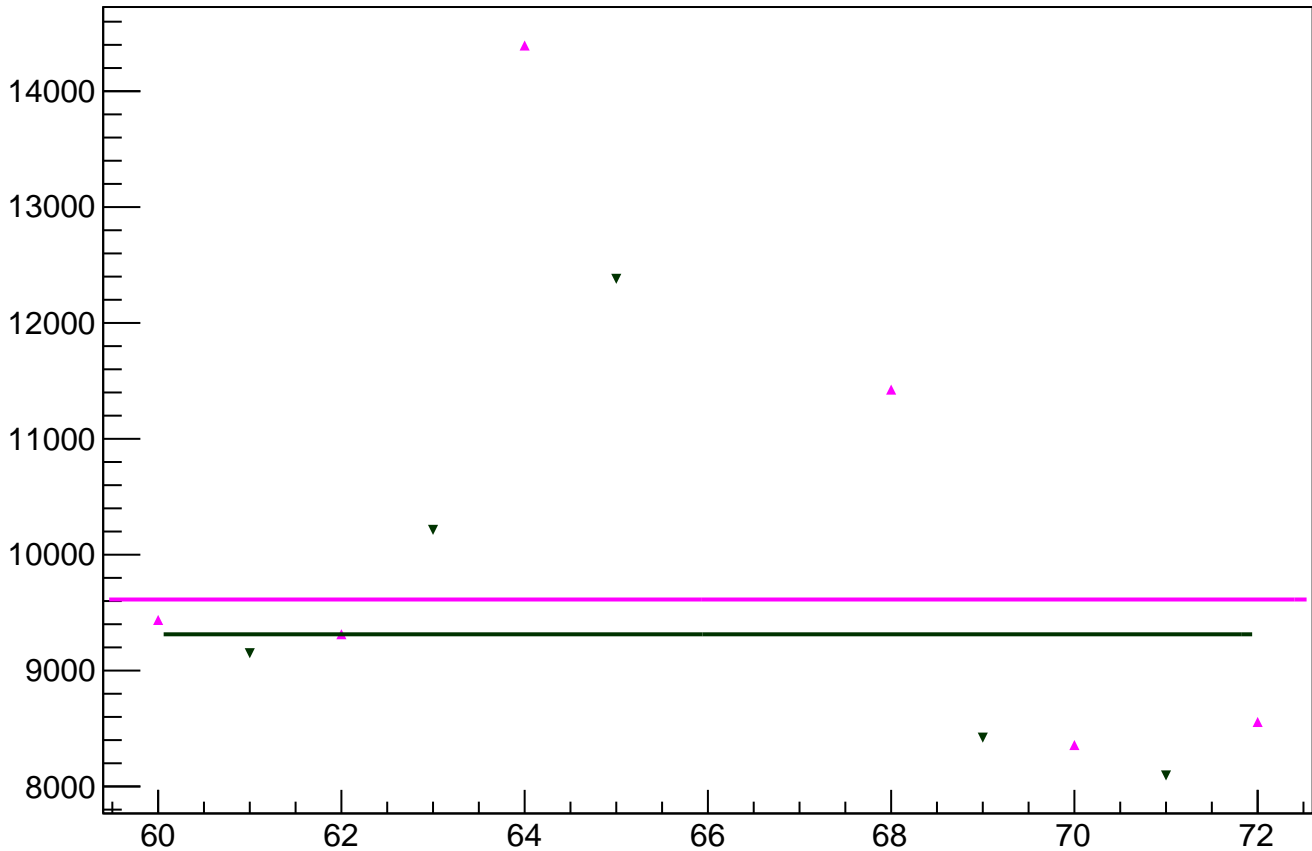
5.910+/-6.636  $\chi^2/NDF: 0.4/4$

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

-1.537+/-5.843  $\chi^2/NDF: 5.8/5$

Left In: -1.537+/-5.843  $\chi^2/NDF: 5.8/5$

# diff\_bpm4ecX\_rms vs slug



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

9313.011+/-4.692  $\chi^2$ /NDF: 72326.6/4

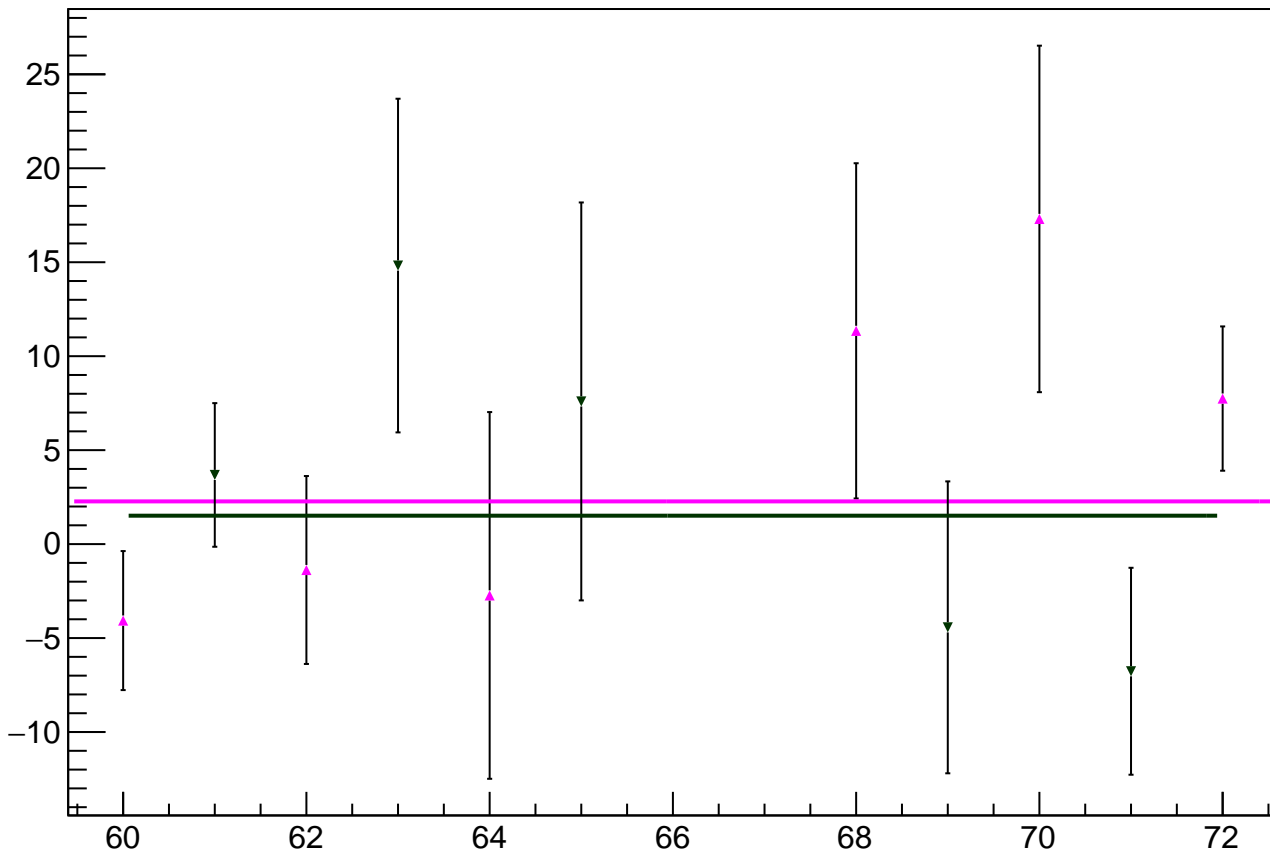
Left Out: 9313.011+/-4.692  $\chi^2$ /NDF: 72326.6/4

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

9613.340+/-4.132  $\chi^2$ /NDF: 151656.0/5

Left In: 9613.340+/-4.132  $\chi^2$ /NDF: 151656.0/5

# diff\_bpm4ecY\_mean vs slug



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

Left Out: 1.512+/-2.676  $\chi^2$ /NDF:5.7/4

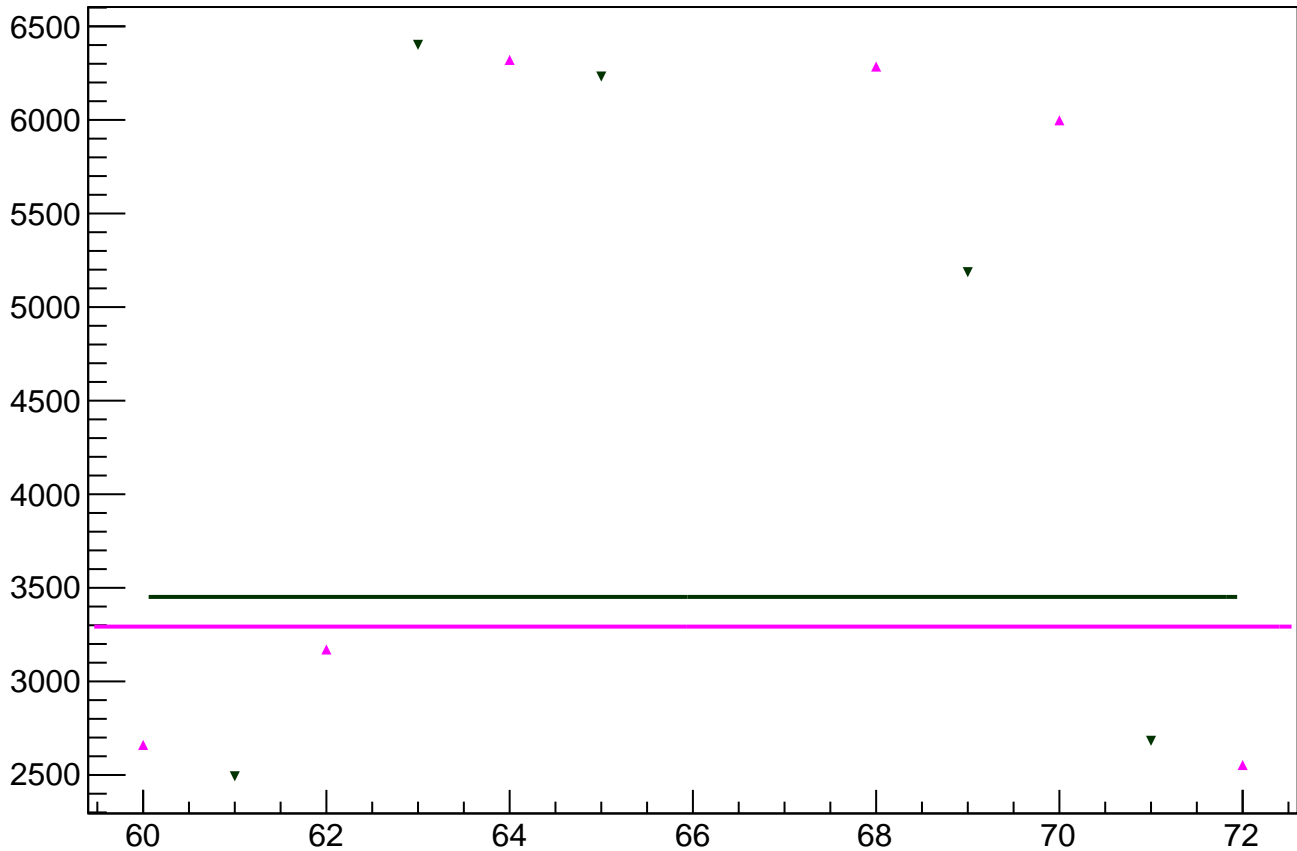
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.273+/-2.153  $\chi^2$ /NDF:9.5/5

1.512+/-2.676  $\chi^2$ /NDF: 5.7/4

2.273+/-2.153  $\chi^2$ /NDF: 9.5/5

# diff\_bpm4ecY\_rms vs slug



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

3451.449+/-1.892  $\chi^2$ /NDF: 623250.6/4

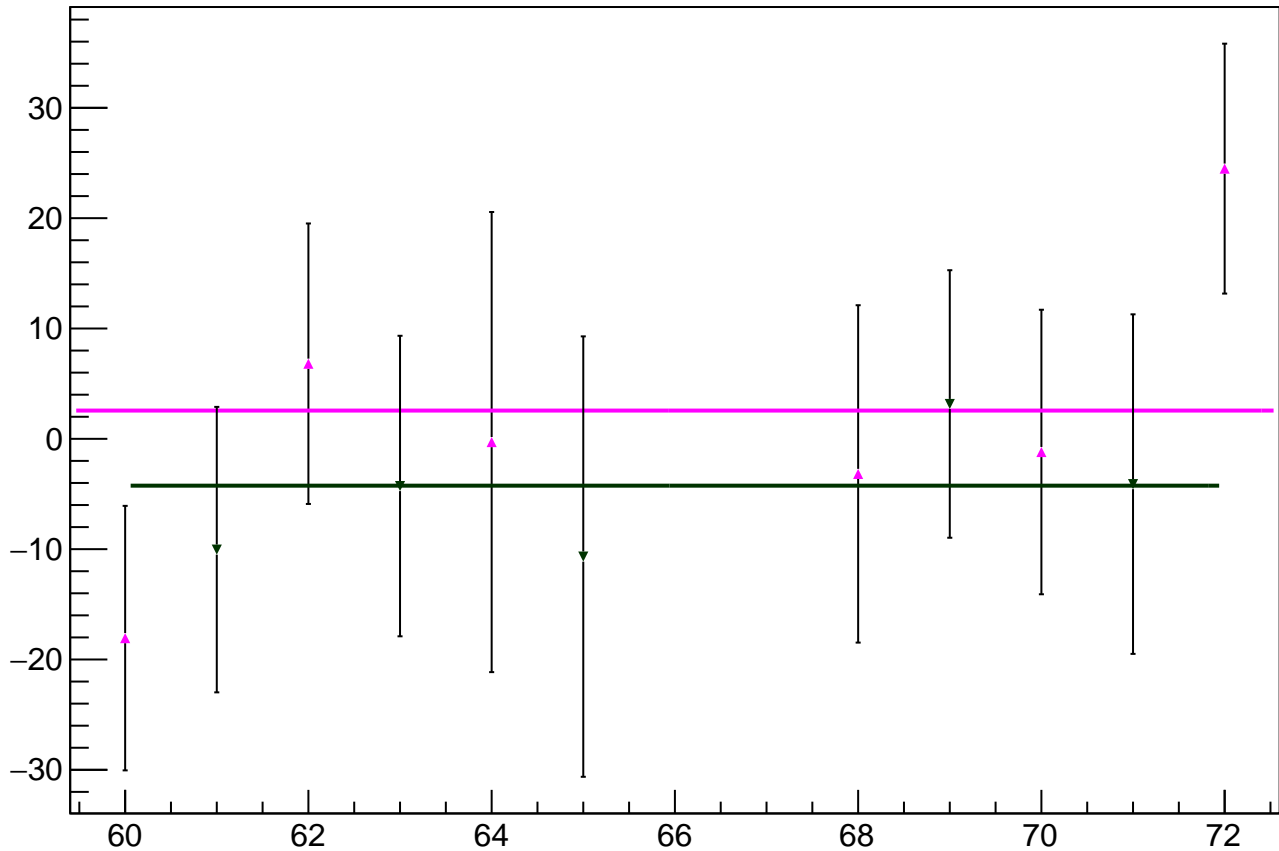
Left Out: 3451.449+/-1.892  $\chi^2$ /NDF:623250.6/4

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

3292.775+/-1.522  $\chi^2$ /NDF: 723640.3/5

Left In: 3292.775+/-1.522  $\chi^2$ /NDF:723640.3/5

# diff\_bpm1X\_mean vs slug



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

Left Out: -4.245+/-6.337  $\chi^2/\text{NDF}$ : 0.7/4

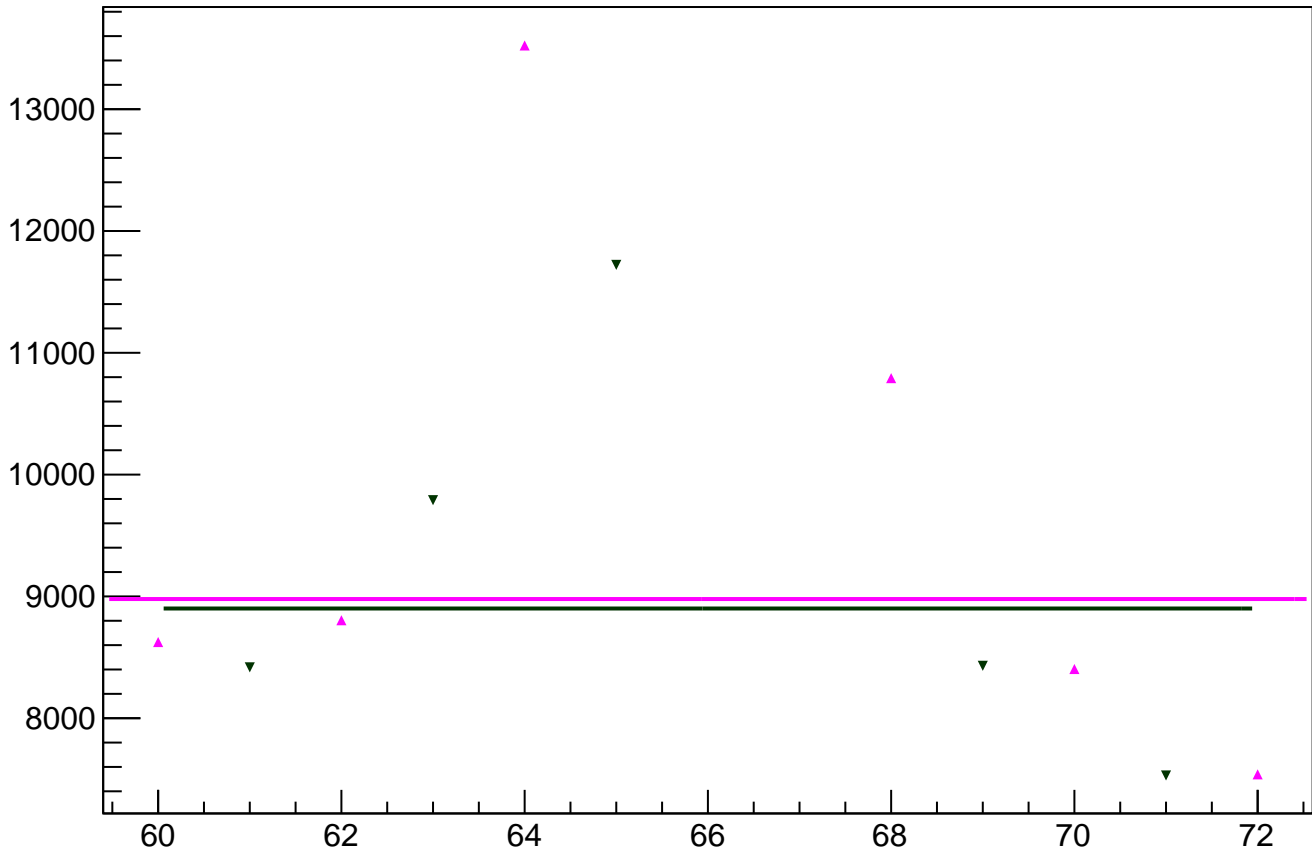
-4.245+/-6.337  $\chi^2/\text{NDF}$ : 0.7/4

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

2.562+/-5.461  $\chi^2/\text{NDF}$ : 7.1/5

Left In: 2.562+/-5.461  $\chi^2/\text{NDF}$ : 7.1/5

# diff\_bpm1X\_rms vs slug



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

Left Out: 8900.734+/-4.481  $\chi^2$ /NDF:70150.8/4

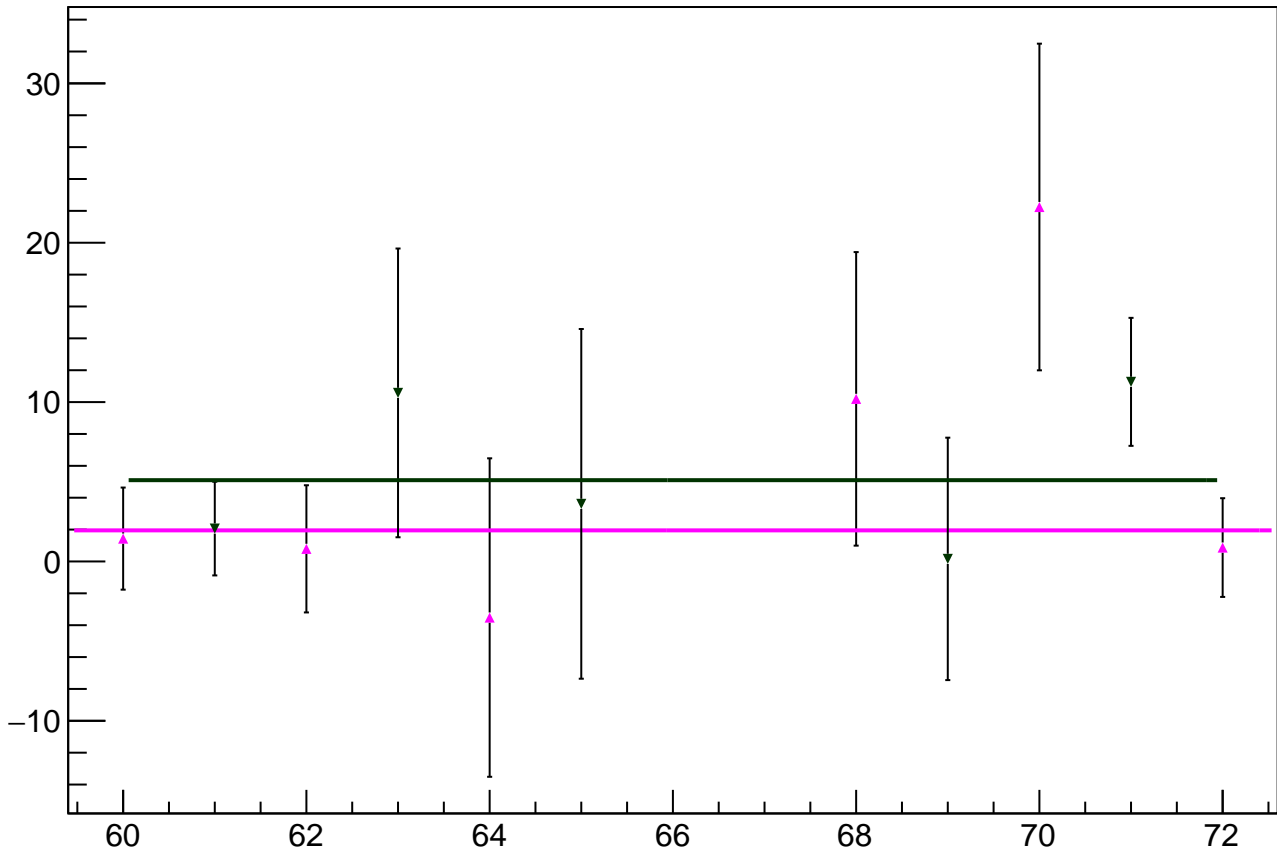
8900.734+/-4.481  $\chi^2$ /NDF: 70150.8/4

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

8978.534+/-3.861  $\chi^2$ /NDF: 161522.2/5

Left In: 8978.534+/-3.861  $\chi^2$ /NDF:161522.2/5

# diff\_bpm1Y\_mean vs slug



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

Left Out: 5.101+/-2.154  $\chi^2/\text{NDF}$ : 4.2/4

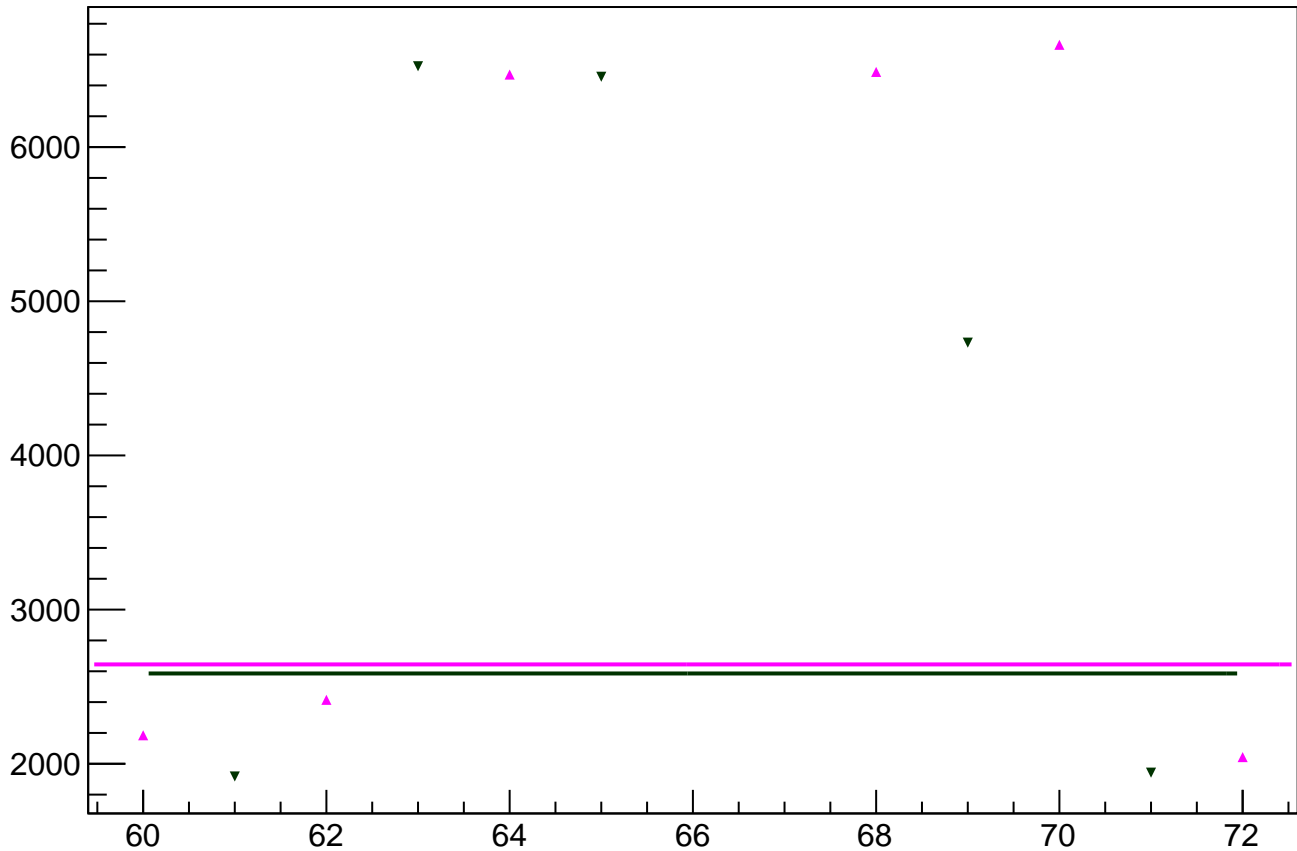
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 1.950+/-1.839  $\chi^2/\text{NDF}$ : 5.3/5

5.101+/-2.154  $\chi^2/\text{NDF}$ : 4.2/4

1.950+/-1.839  $\chi^2/\text{NDF}$ : 5.3/5

# diff\_bpm1Y\_rms vs slug



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

2585.744+/-1.523  $\chi^2$ /NDF: 940627.0/4

Left Out: 2585.744+/-1.523  $\chi^2$ /NDF:940627.0/4

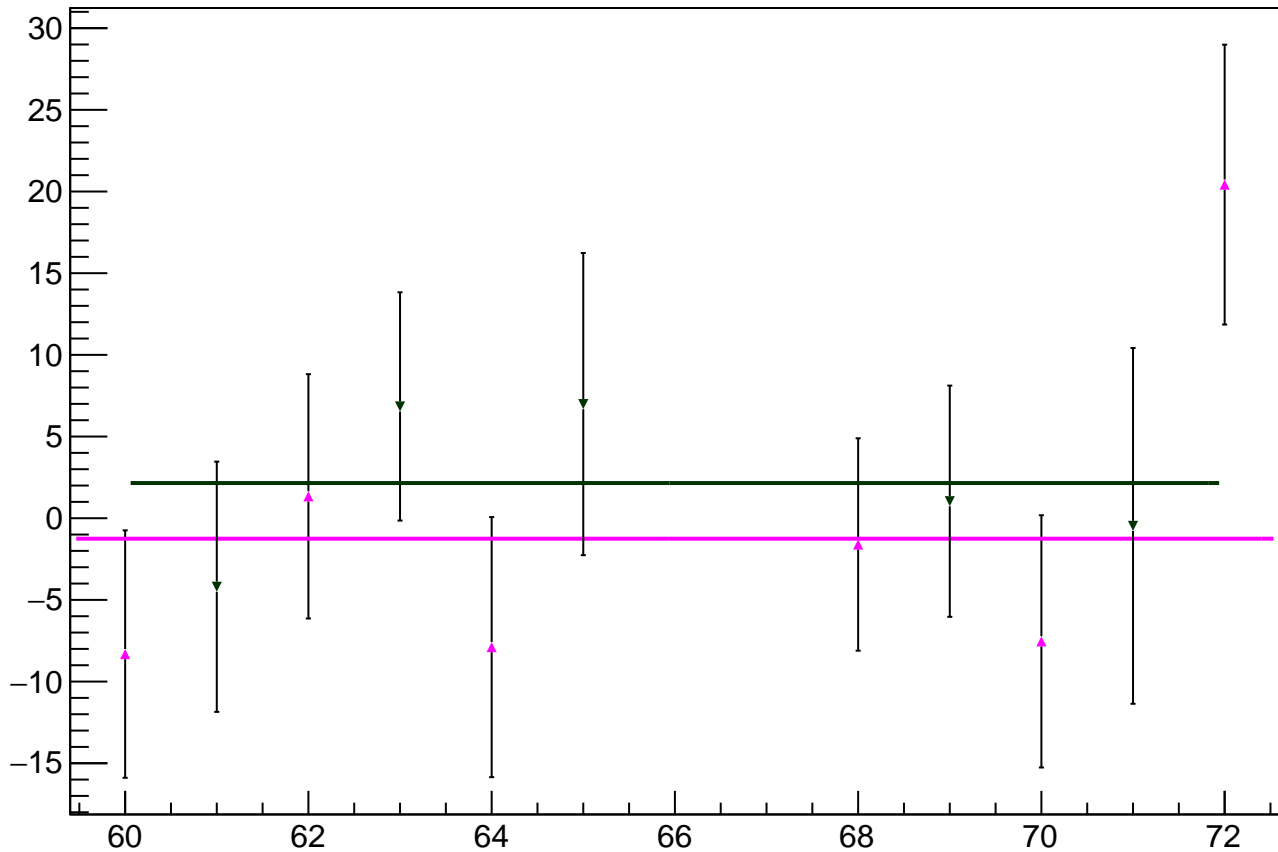
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2644.517+/-1.300  $\chi^2$ /NDF: 1072060.8/5

Left In: 2644.517+/-1.300  $\chi^2$ /NDF:1072060.8/5



# diff\_bpm11X\_mean vs slug



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

Left Out: 2.154+/-3.590  $\chi^2$ /NDF:1.5/4

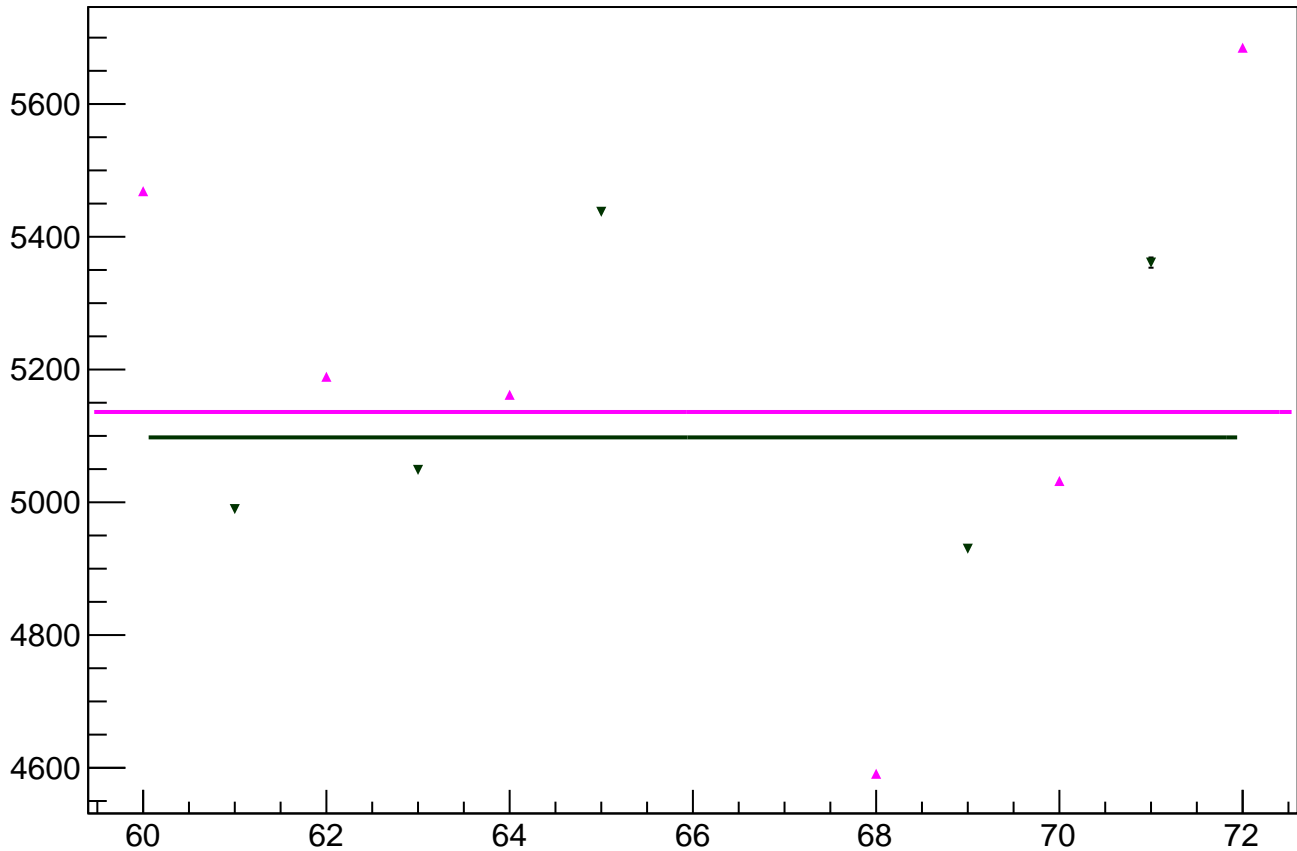
2.154+/-3.590  $\chi^2$ /NDF: 1.5/4

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

-1.253+/-3.084  $\chi^2$ /NDF: 8.8/5

Left In: -1.253+/-3.084  $\chi^2$ /NDF:8.8/5

# diff\_bpm11X\_rms vs slug



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

Left Out: 5097.781+/-2.538  $\chi^2$ /NDF:5488.7/4

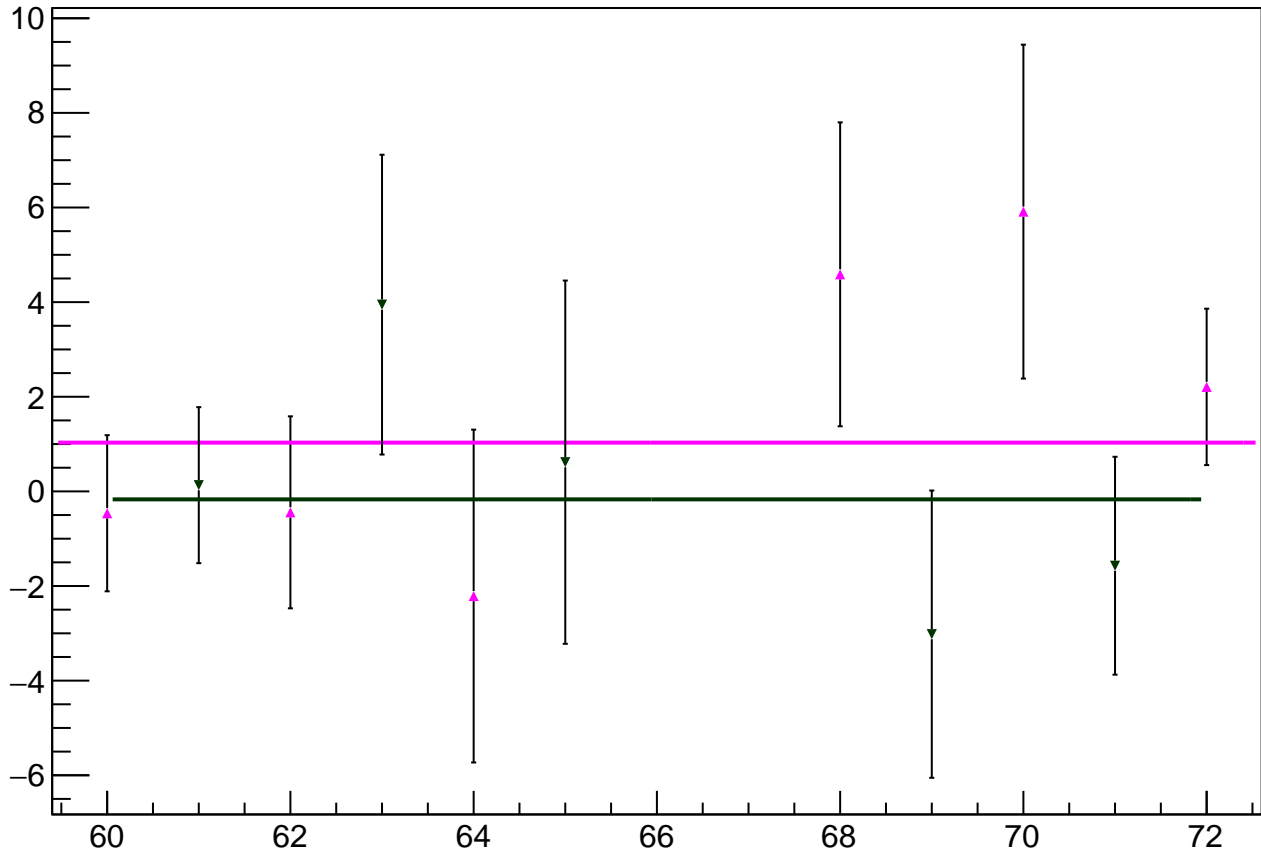
5097.781+/-2.538  $\chi^2$ /NDF: 5488.7/4

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

5136.060+/-2.181  $\chi^2$ /NDF: 26600.9/5

Left In: 5136.060+/-2.181  $\chi^2$ /NDF:26600.9/5

# diff\_bpm11Y\_mean vs slug



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

Left Out: -0.169+/-1.096  $\chi^2/\text{NDF}$ : 3.0/4

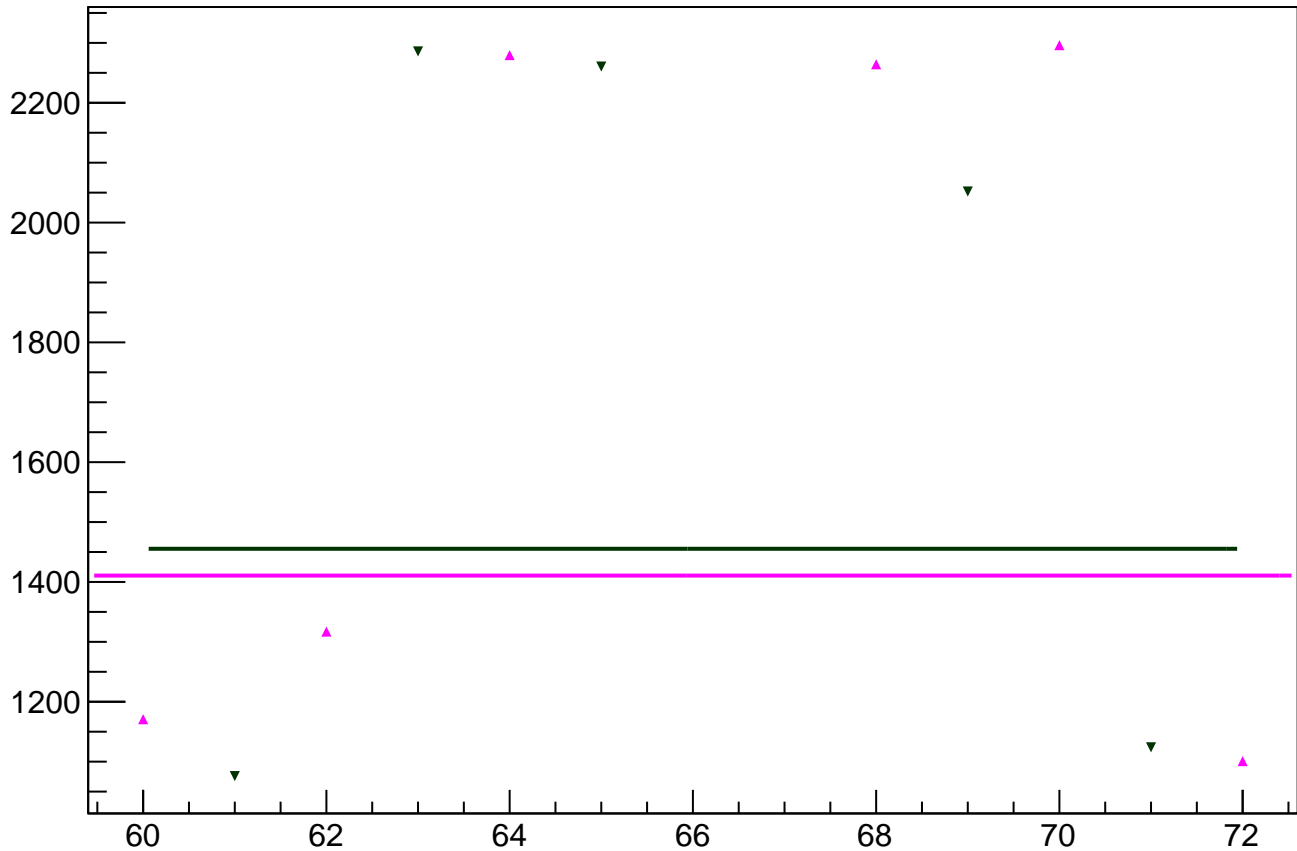
-0.169+/-1.096  $\chi^2/\text{NDF}$ : 3.0/4

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

1.031+/-0.900  $\chi^2/\text{NDF}$ : 5.8/5

Left In: 1.031+/-0.900  $\chi^2/\text{NDF}$ : 5.8/5

# diff\_bpm11Y\_rms vs slug



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

1455.392+/-0.775  $\chi^2$ /NDF: 449977.9/4

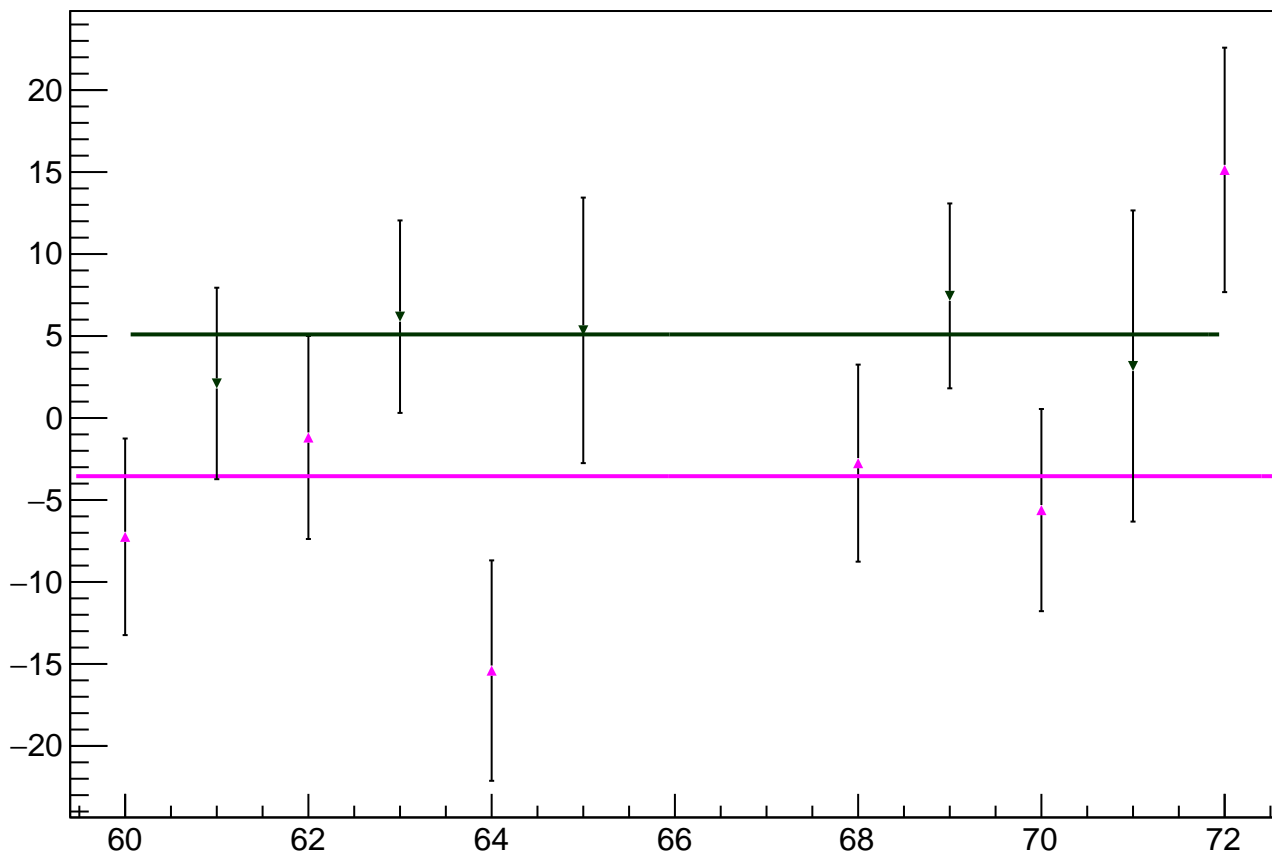
Left Out: 1455.392+/-0.775  $\chi^2$ /NDF: 449977.9/4

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

1410.631+/-0.636  $\chi^2$ /NDF: 506089.1/5

Left In: 1410.631+/-0.636  $\chi^2$ /NDF: 506089.1/5

# diff\_bpm12X\_mean vs slug



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

Left Out: 5.098+/-2.934  $\chi^2/\text{NDF}$ : 0.5/4

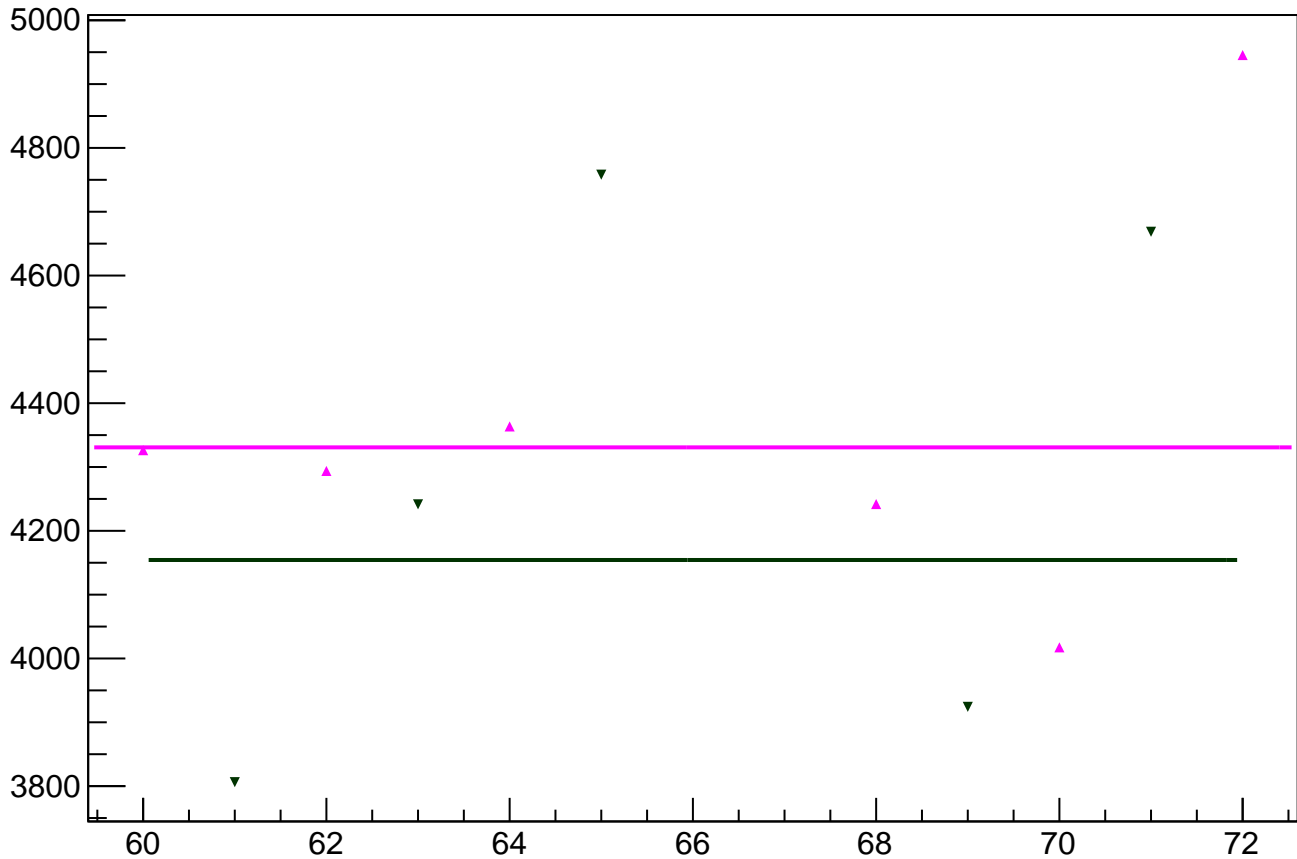
5.098+/-2.934  $\chi^2/\text{NDF}$ : 0.5/4

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

-3.548+/-2.599  $\chi^2/\text{NDF}$ : 10.0/5

Left In: -3.548+/-2.599  $\chi^2/\text{NDF}$ : 10.0/5

# diff\_bpm12X\_rms vs slug



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

Left Out: 4154.320+/-2.074  $\chi^2/\text{NDF}$ :27879.5/4

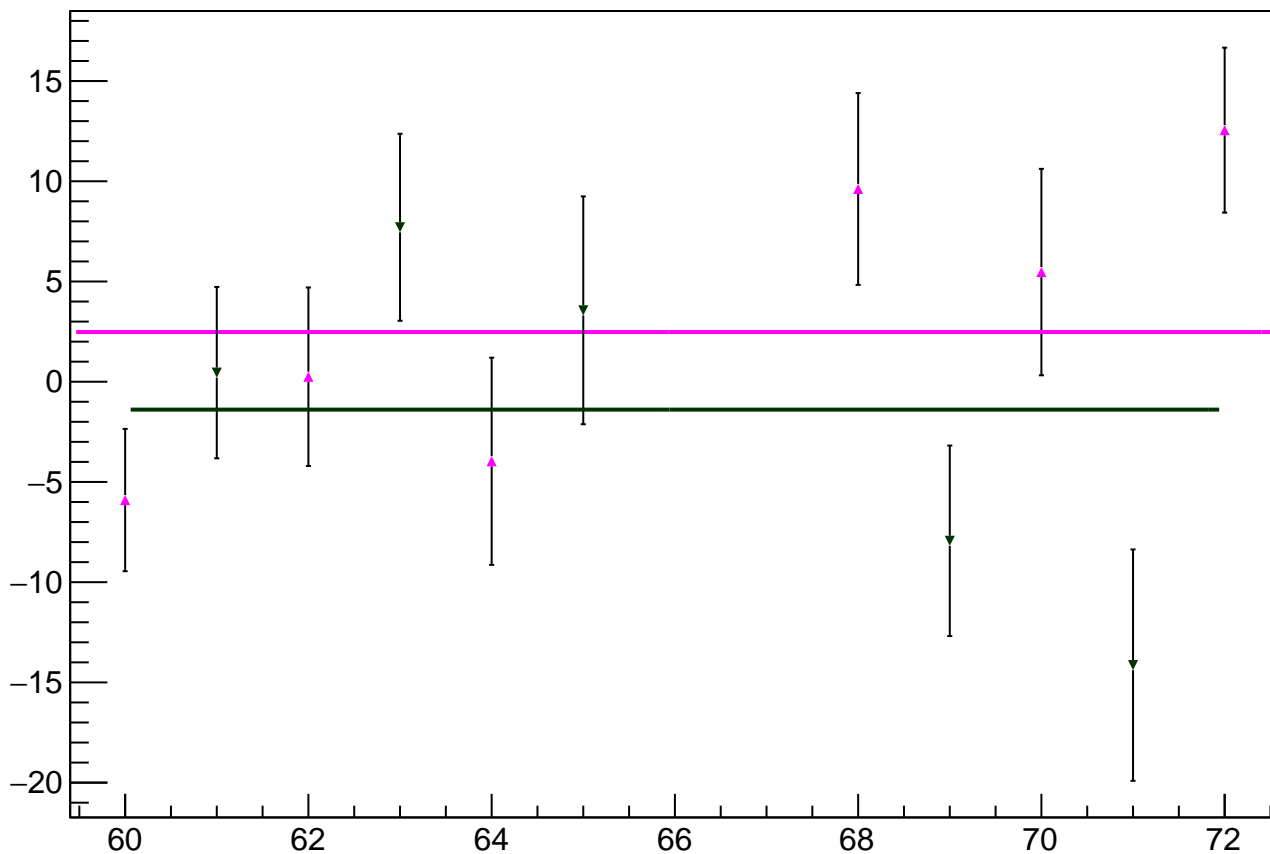
4154.320+/-2.074  $\chi^2/\text{NDF}$ : 27879.5/4

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

4330.782+/-1.838  $\chi^2/\text{NDF}$ : 19325.6/5

Left In: 4330.782+/-1.838  $\chi^2/\text{NDF}$ :19325.6/5

# diff\_bpm12Y\_mean vs slug



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

Left Out: -1.391+/-2.203  $\chi^2$ /NDF: 11.5/4

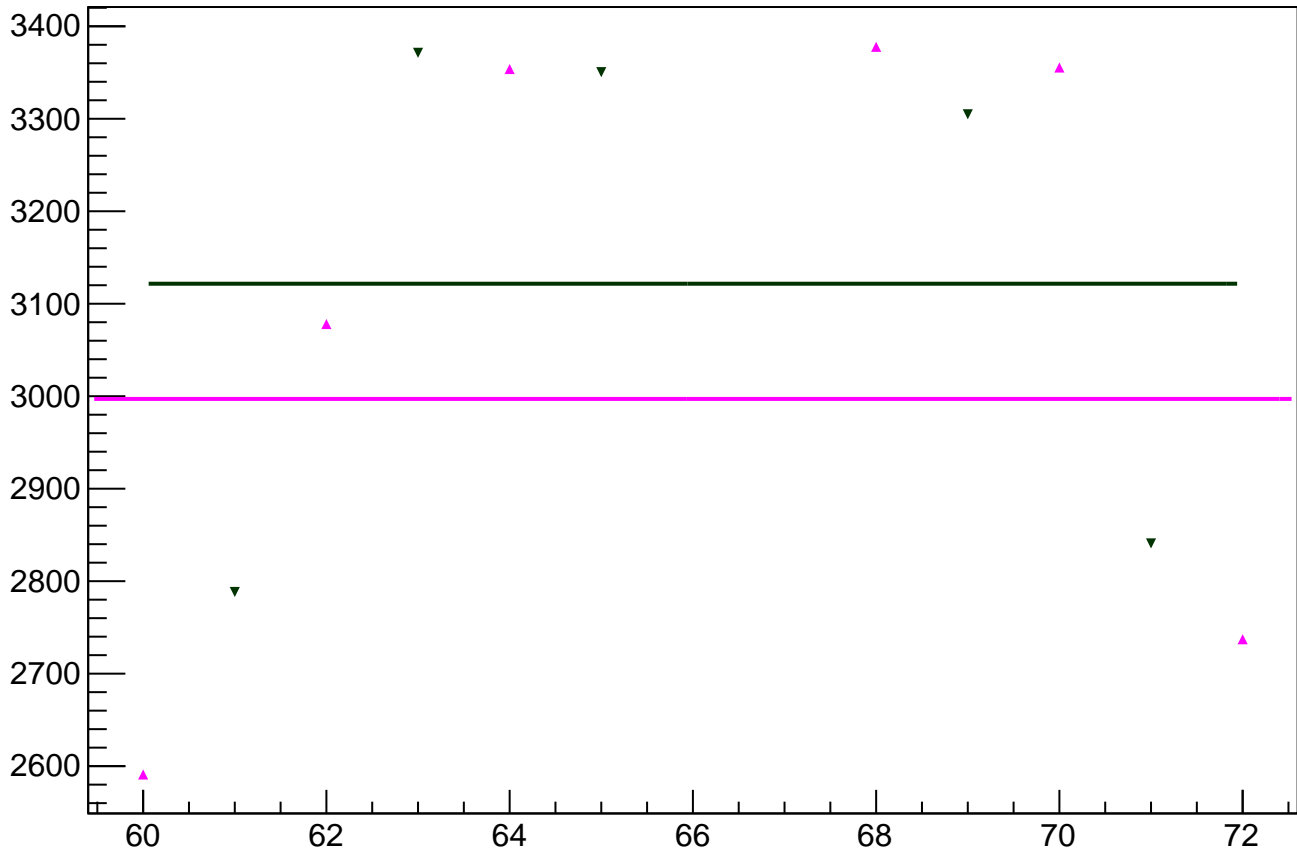
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.479+/-1.803  $\chi^2$ /NDF: 15.9/5

-1.391+/-2.203  $\chi^2$ /NDF: 11.5/4

2.479+/-1.803  $\chi^2$ /NDF: 15.9/5

# diff\_bpm12Y\_rms vs slug



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

3121.639+/-1.558  $\chi^2$ /NDF: 28844.2/4

Left Out: 3121.639+/-1.558  $\chi^2$ /NDF:28844.2/4

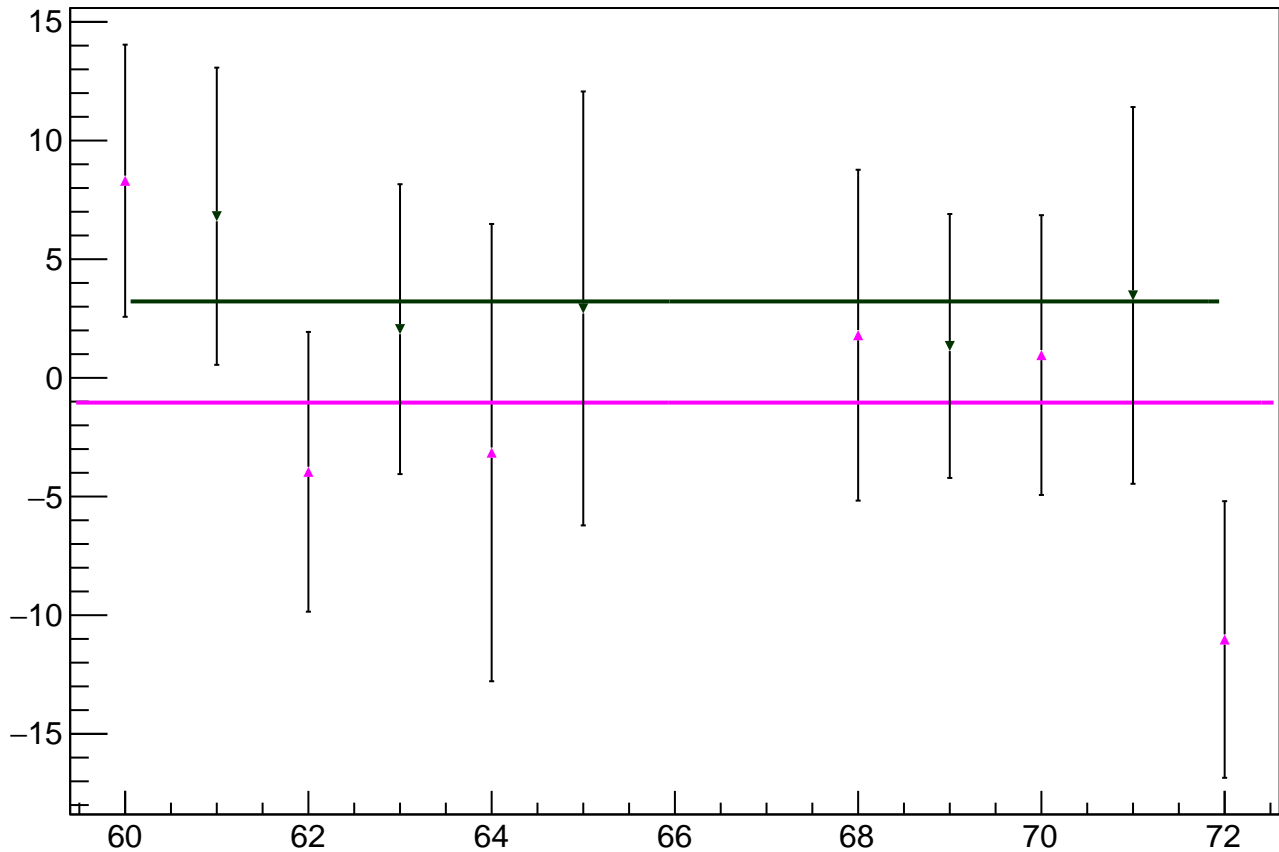
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2997.063+/-1.275  $\chi^2$ /NDF: 66702.6/5

Left In: 2997.063+/-1.275  $\chi^2$ /NDF:66702.6/5



# diff\_bpm16X\_mean vs slug



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

Left Out: 3.221+/-2.982  $\chi^2/\text{NDF}$ : 0.5/4

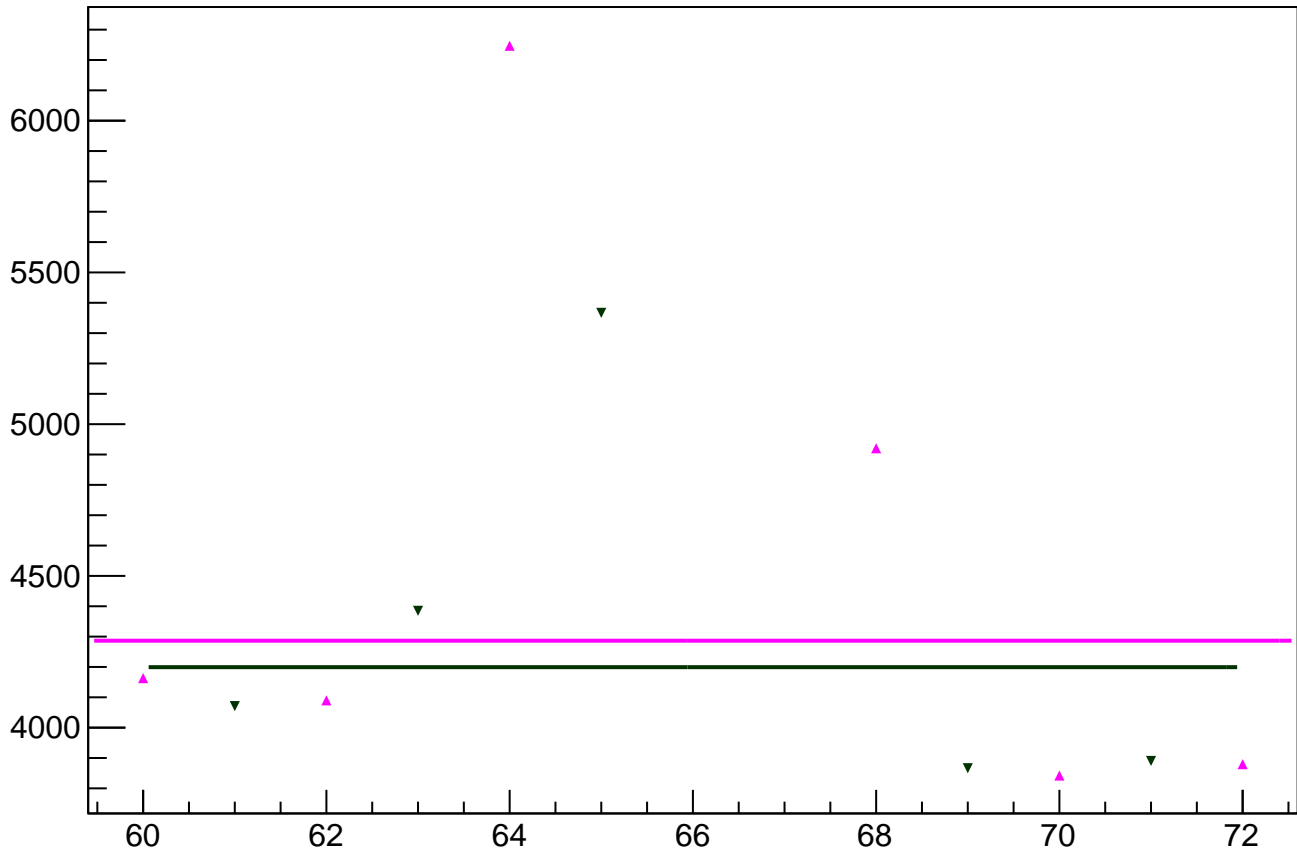
3.221+/-2.982  $\chi^2/\text{NDF}$ : 0.5/4

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

-1.042+/-2.593  $\chi^2/\text{NDF}$ : 6.2/5

Left In: -1.042+/-2.593  $\chi^2/\text{NDF}$ : 6.2/5

# diff\_bpm16X\_rms vs slug



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

Left Out: 4199.298+/-2.108  $\chi^2$ /NDF:45509.4/4

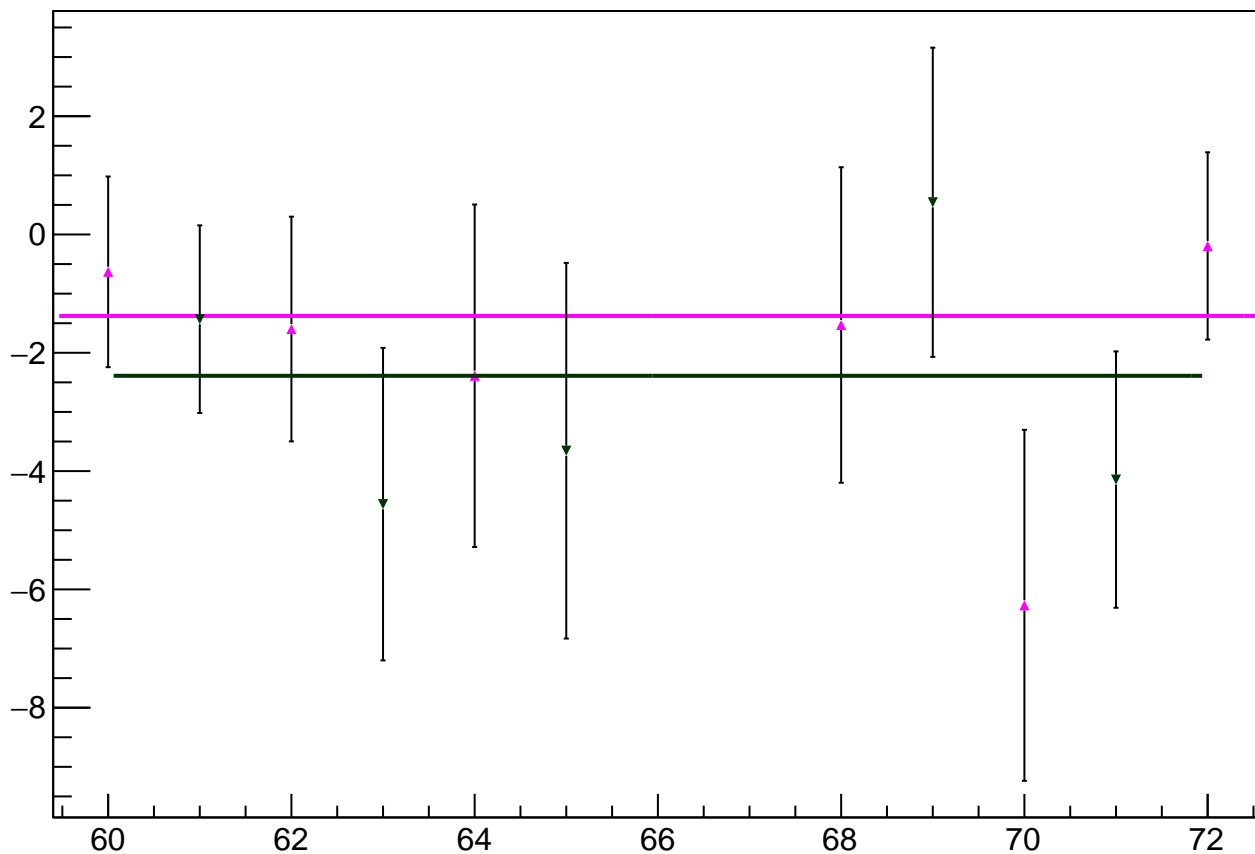
4199.298+/-2.108  $\chi^2$ /NDF: 45509.4/4

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

4286.500+/-1.833  $\chi^2$ /NDF: 123614.2/5

Left In: 4286.500+/-1.833  $\chi^2$ /NDF:123614.2/5

# diff\_bpm16Y\_mean vs slug



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

Left Out: -2.389+/-1.000  $\chi^2$ /NDF:3.1/4

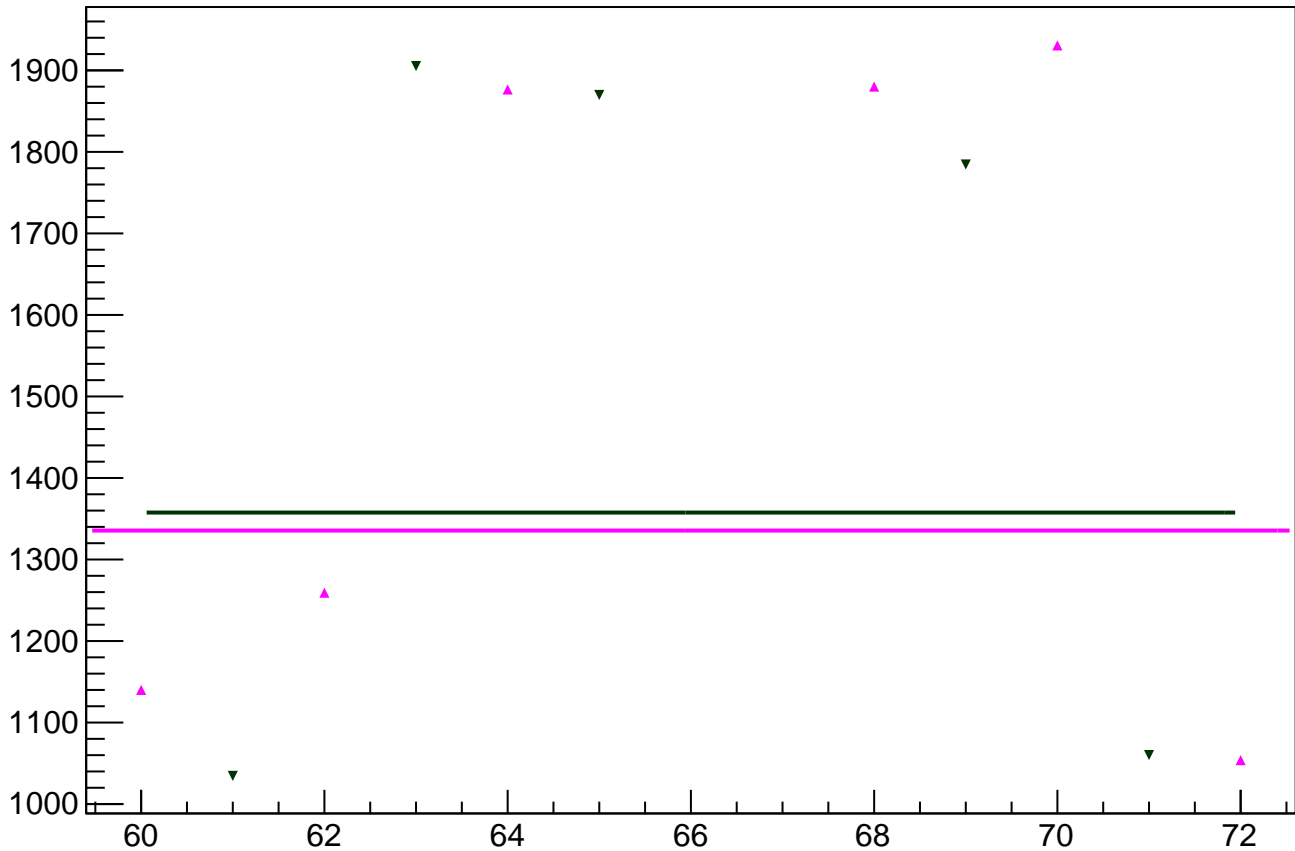
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.377+/-0.835  $\chi^2$ /NDF:3.6/5

-2.389+/-1.000  $\chi^2$ /NDF: 3.1/4

-1.377+/-0.835  $\chi^2$ /NDF: 3.6/5

# diff\_bpm16Y\_rms vs slug



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

1357.594+/-0.707  $\chi^2$ /NDF: 312062.7/4

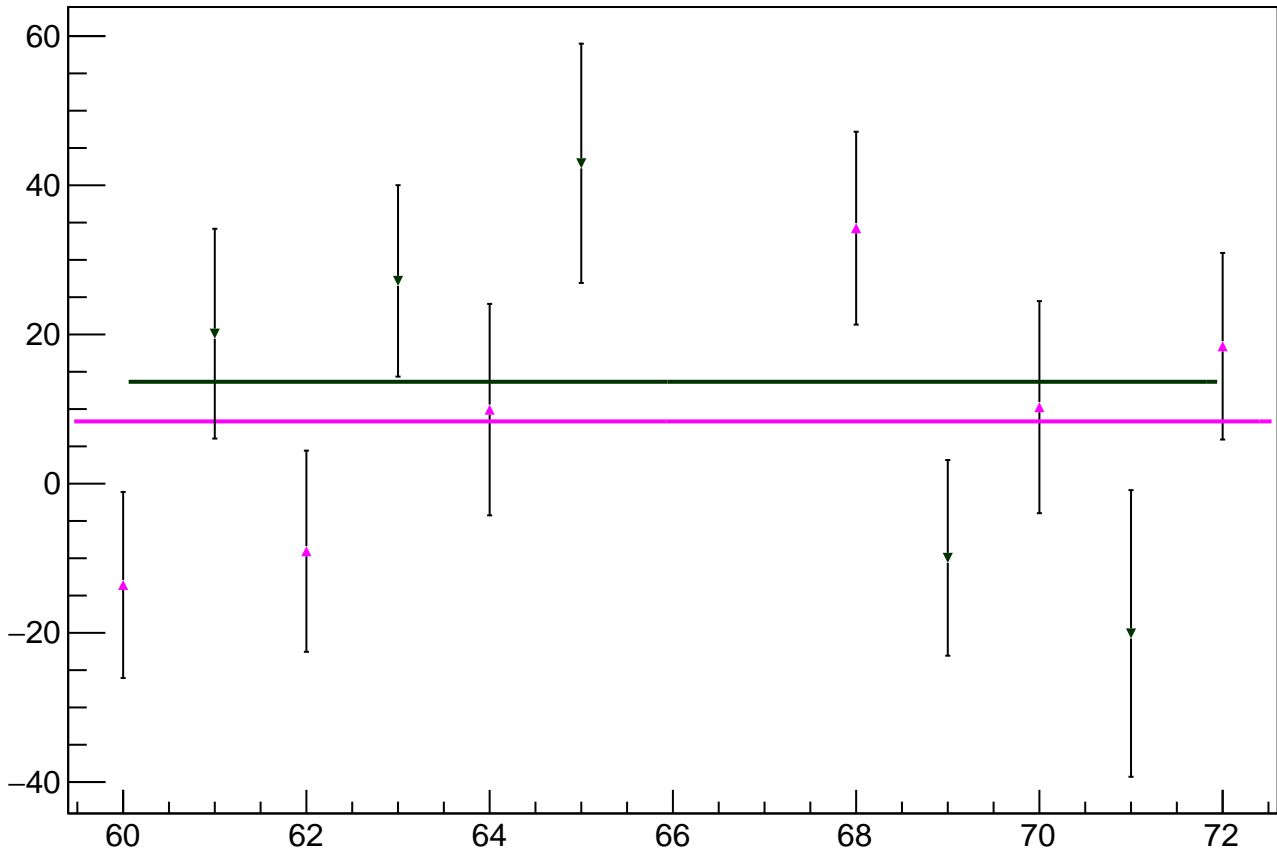
Left Out: 1357.594+/-0.707  $\chi^2$ /NDF: 312062.7/4

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

1335.512+/-0.590  $\chi^2$ /NDF: 329694.0/5

Left In: 1335.512+/-0.590  $\chi^2$ /NDF: 329694.0/5

# diff\_bpm0l01X\_mean vs slug



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

13.659+/-6.518  $\chi^2/\text{NDF}$ : 11.0/4

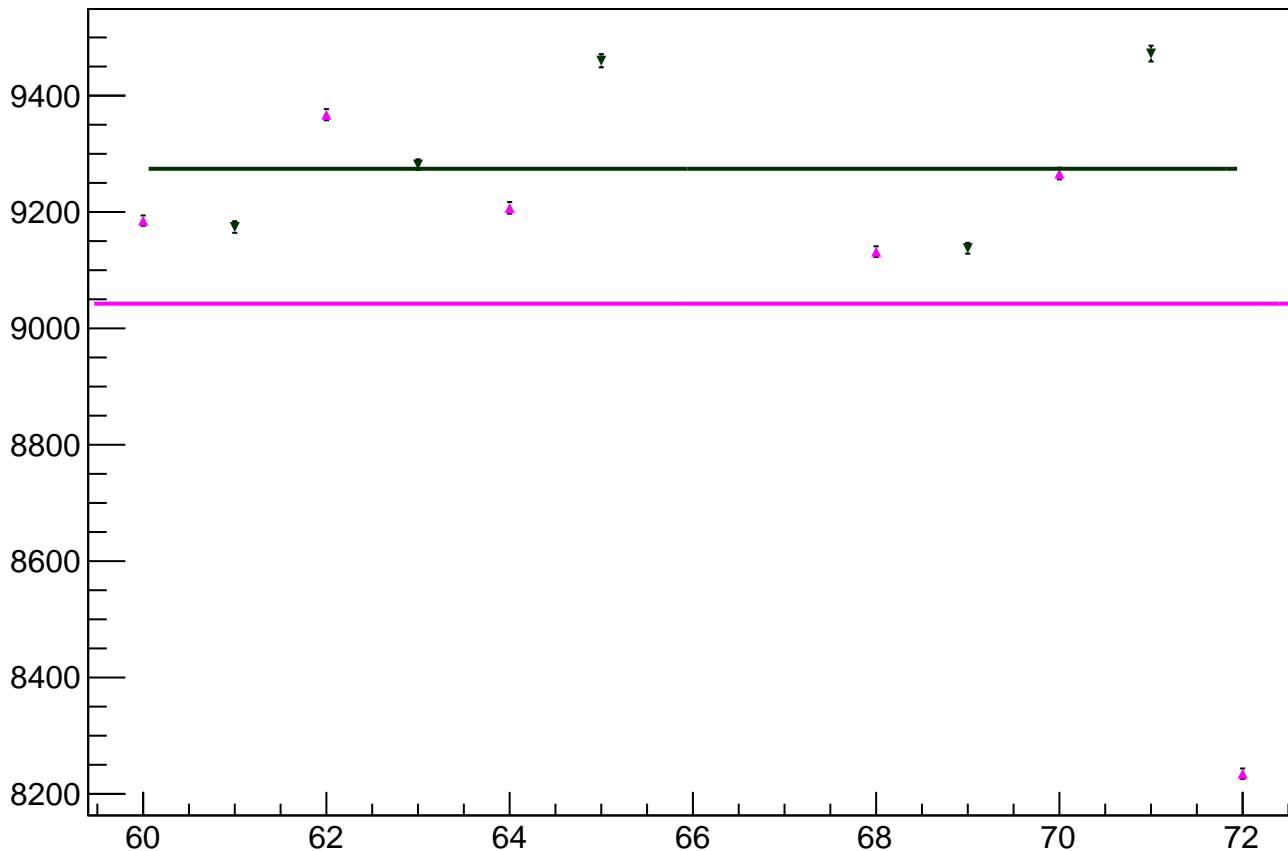
Left Out: 13.659+/-6.518  $\chi^2/\text{NDF}$ : 11.0/4

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

8.346+/-5.406  $\chi^2/\text{NDF}$ : 9.4/5

Left In: 8.346+/-5.406  $\chi^2/\text{NDF}$ : 9.4/5

# diff\_bpm0l01X\_rms vs slug



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

Left Out: 9274.330+/-4.609  $\chi^2$ /NDF:799.3/4

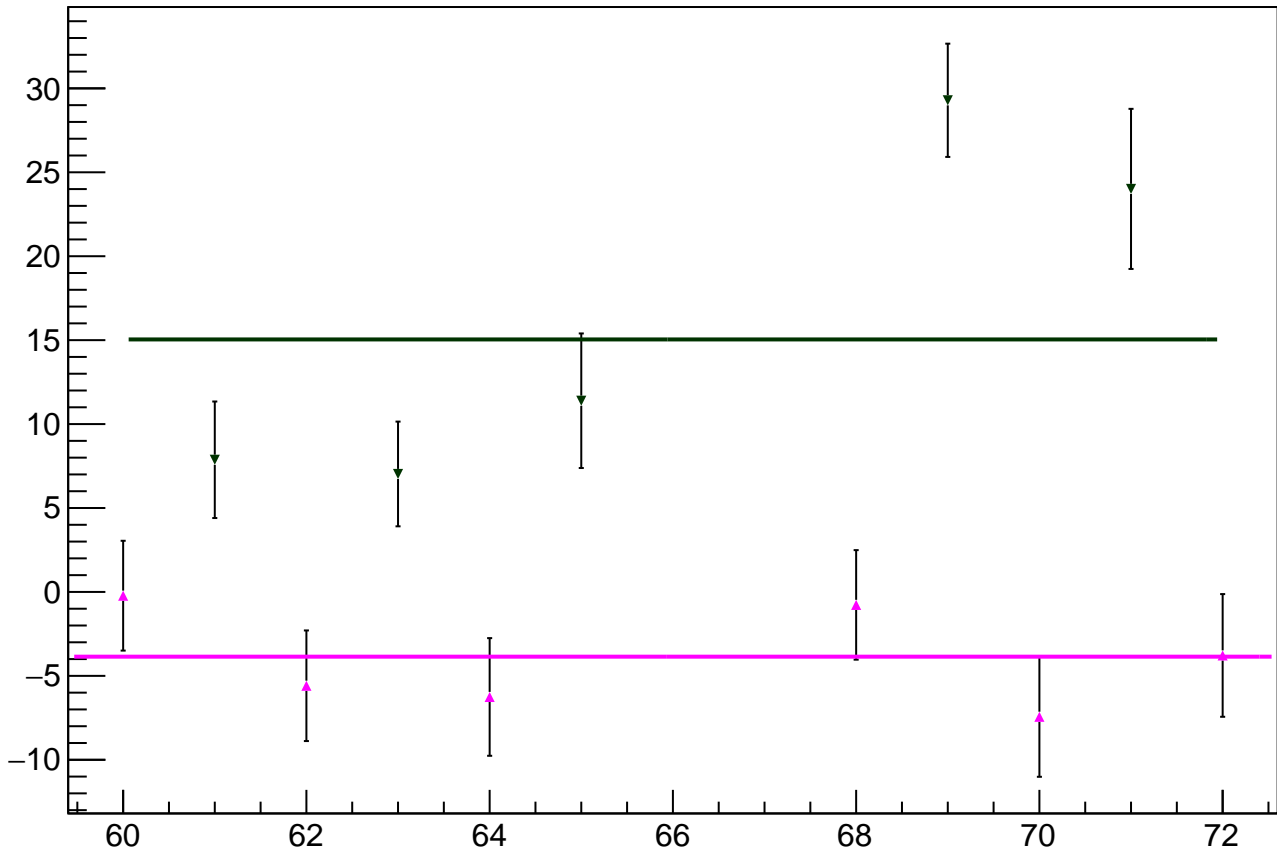
9274.330+/-4.609  $\chi^2$ /NDF: 799.3/4

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

9042.583+/-3.822  $\chi^2$ /NDF: 10620.5/5

Left In: 9042.583+/-3.822  $\chi^2$ /NDF:10620.5/5

# diff\_bpm0l01Y\_mean vs slug



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

15.043+/-1.623  $\chi^2/\text{NDF}$ : 33.1/4

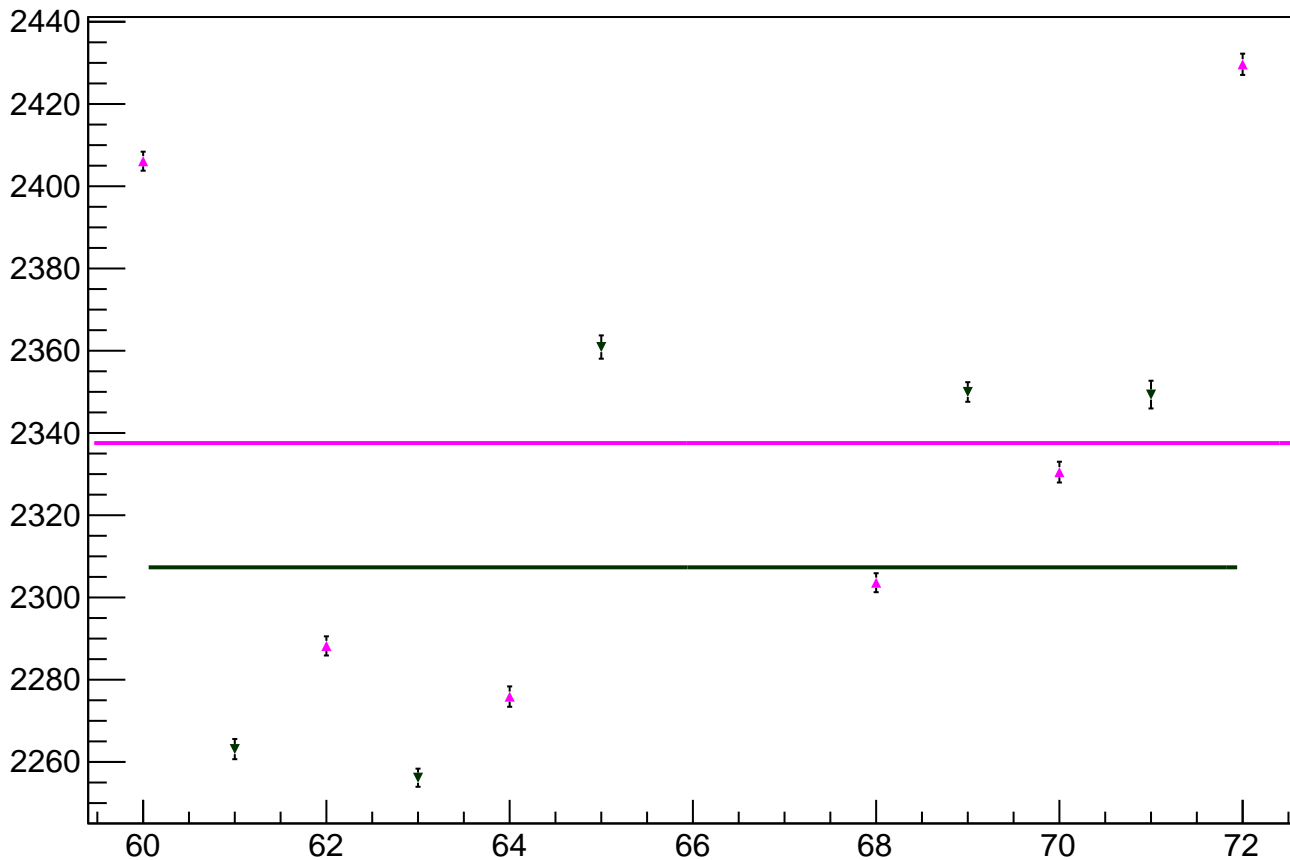
Left Out: 15.043+/-1.623  $\chi^2/\text{NDF}$ : 33.1/4

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

-3.856+/-1.395  $\chi^2/\text{NDF}$ : 3.9/5

Left In: -3.856+/-1.395  $\chi^2/\text{NDF}$ : 3.9/5

# diff\_bpm0l01Y\_rms vs slug



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

Left Out: 2307.330+/-1.147  $\chi^2$ /NDF:1694.2/4

2307.330+/-1.147  $\chi^2$ /NDF: 1694.2/4

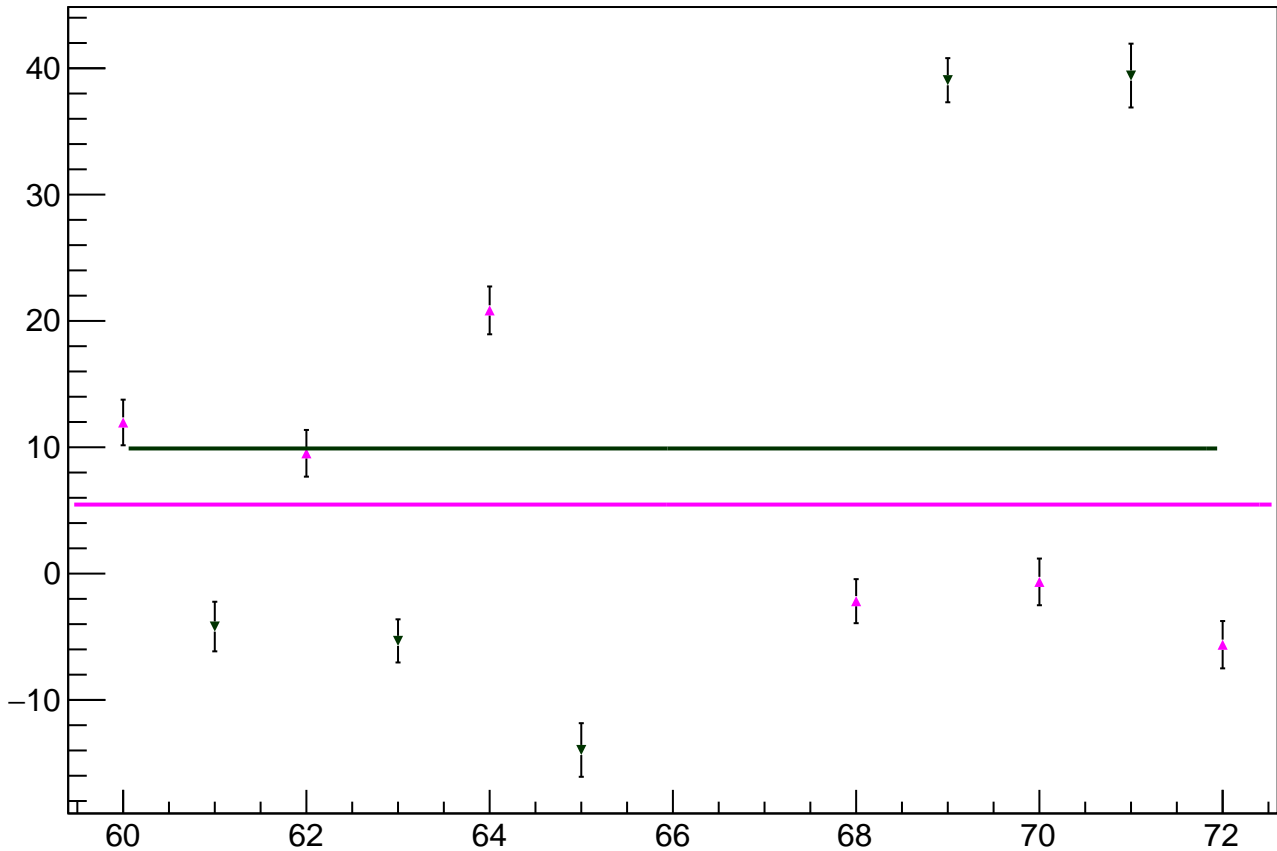
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2337.547+/-0.986  $\chi^2$ /NDF: 3440.1/5

Left In: 2337.547+/-0.986  $\chi^2$ /NDF:3440.1/5



# diff\_bpm2i01X\_mean vs slug



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

9.905+/-0.874  $\chi^2/\text{NDF}$ : 672.7/4

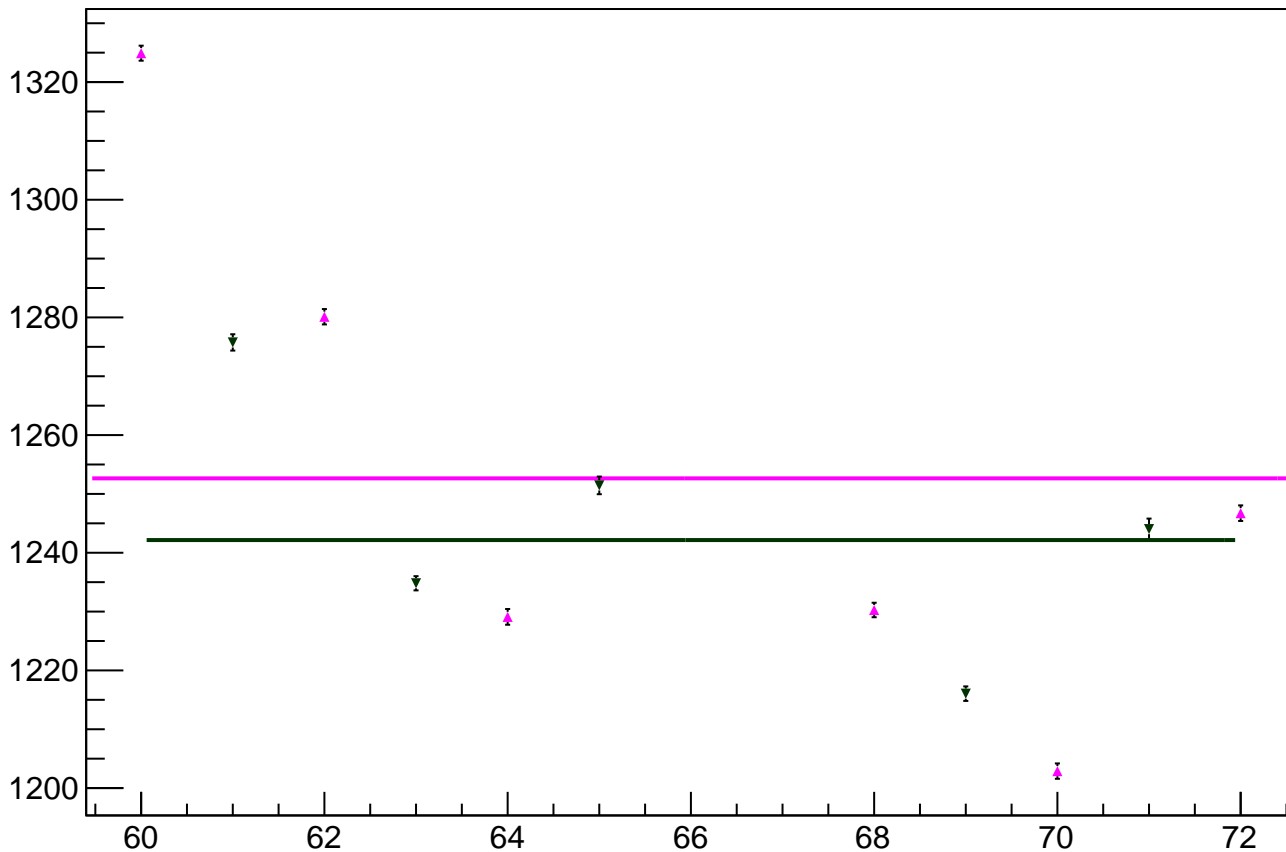
Left Out: 9.905+/-0.874  $\chi^2/\text{NDF}$ : 672.7/4

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

5.464+/-0.748  $\chi^2/\text{NDF}$ : 149.0/5

Left In: 5.464+/-0.748  $\chi^2/\text{NDF}$ : 149.0/5

# diff\_bpm2i01X\_rms vs slug



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

Left Out: 1242.157+/-0.618  $\chi^2$ /NDF: 1109.0/4

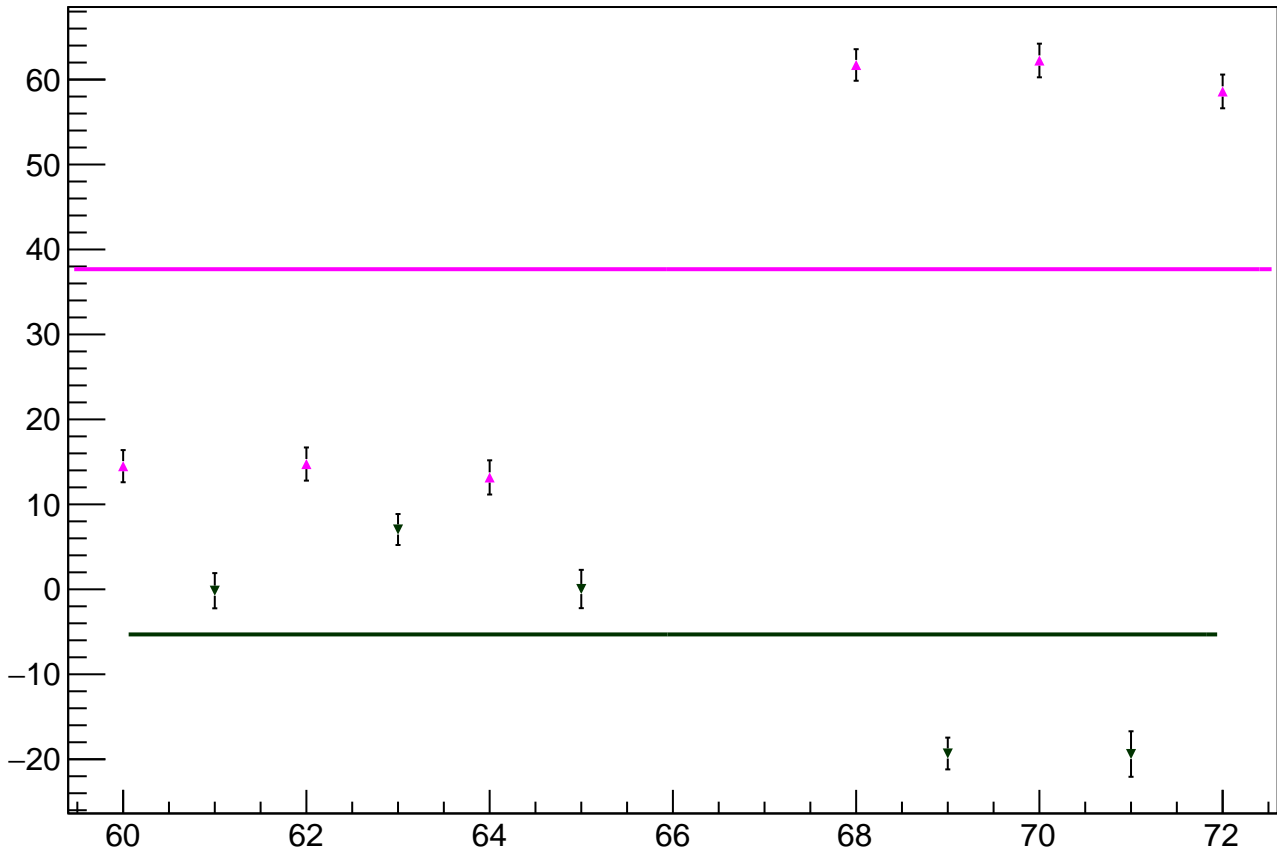
1242.157+/-0.618  $\chi^2$ /NDF: 1109.0/4

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

1252.643+/-0.529  $\chi^2$ /NDF: 5756.4/5

Left In: 1252.643+/-0.529  $\chi^2$ /NDF: 5756.4/5

# diff\_bpm2i01Y\_mean vs slug



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

Left Out: -5.309+/-0.930  $\chi^2$ /NDF:141.5/4

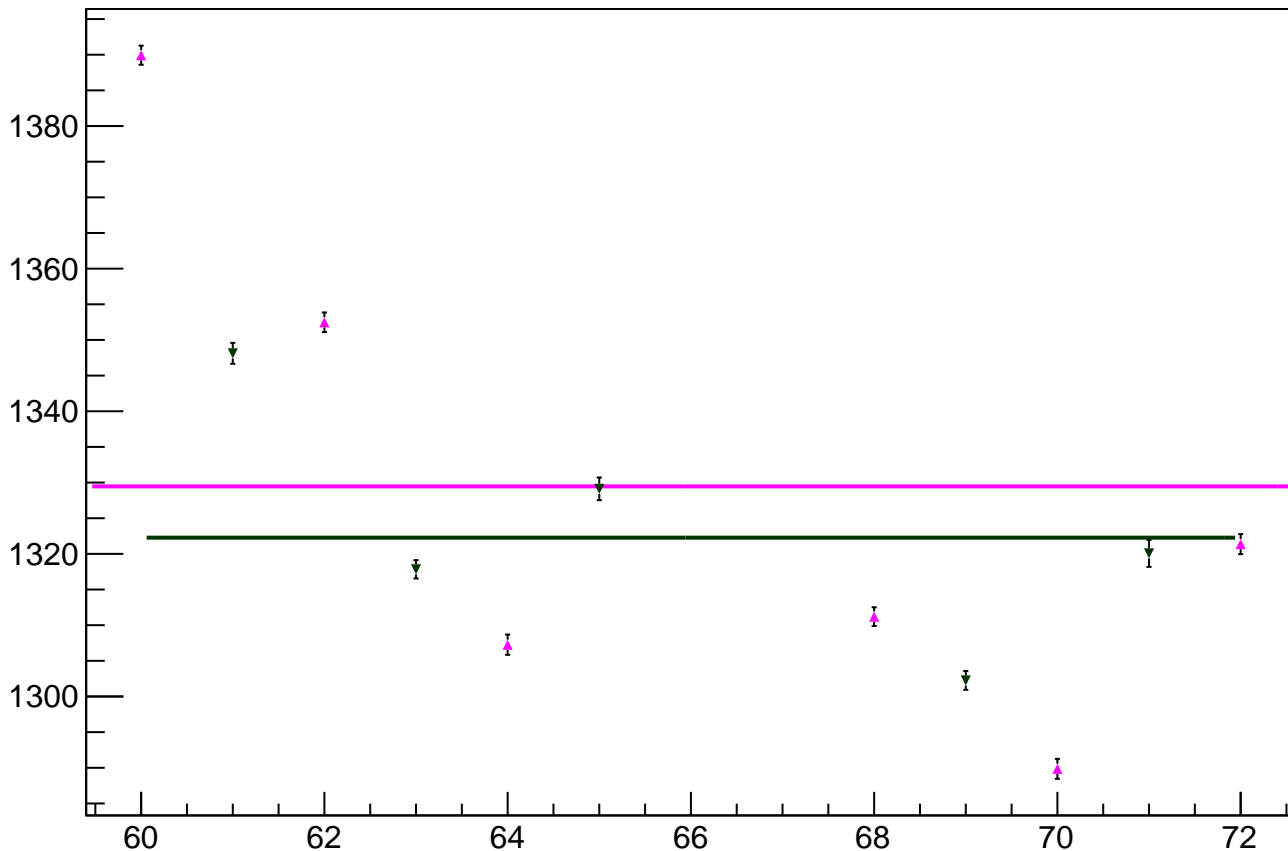
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 37.678+/-0.794  $\chi^2$ /NDF:869.0/5

-5.309+/-0.930  $\chi^2$ /NDF: 141.5/4

37.678+/-0.794  $\chi^2$ /NDF: 869.0/5

# diff\_bpm2i01Y\_rms vs slug



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

Left Out: 1322.275+/-0.658  $\chi^2$ /NDF:572.2/4

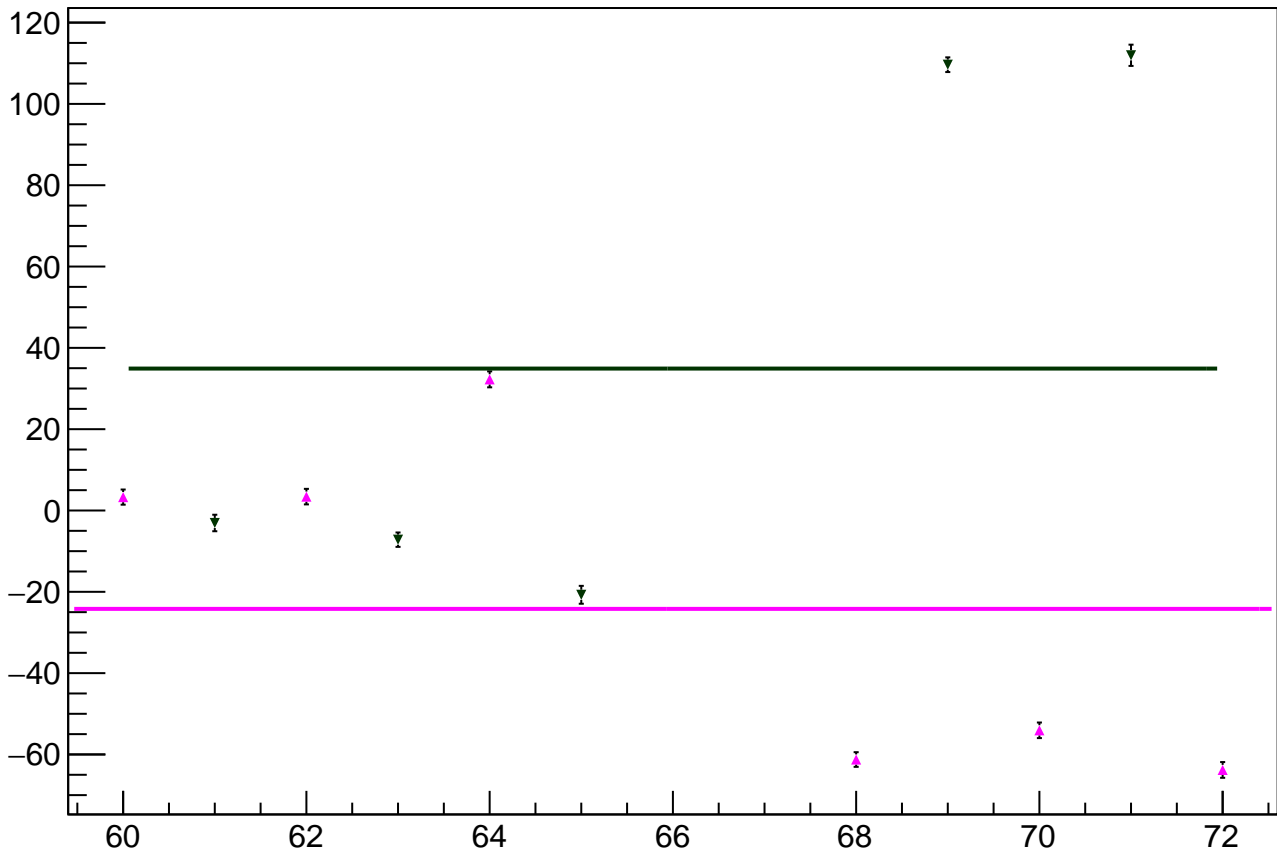
1322.275+/-0.658  $\chi^2$ /NDF: 572.2/4

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

1329.465+/-0.561  $\chi^2$ /NDF: 3590.4/5

Left In: 1329.465+/-0.561  $\chi^2$ /NDF:3590.4/5

# diff\_bpm2i02X\_mean vs slug



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

Left Out: 34.907+/-0.905  $\chi^2/\text{NDF}$ : 4133.6/4

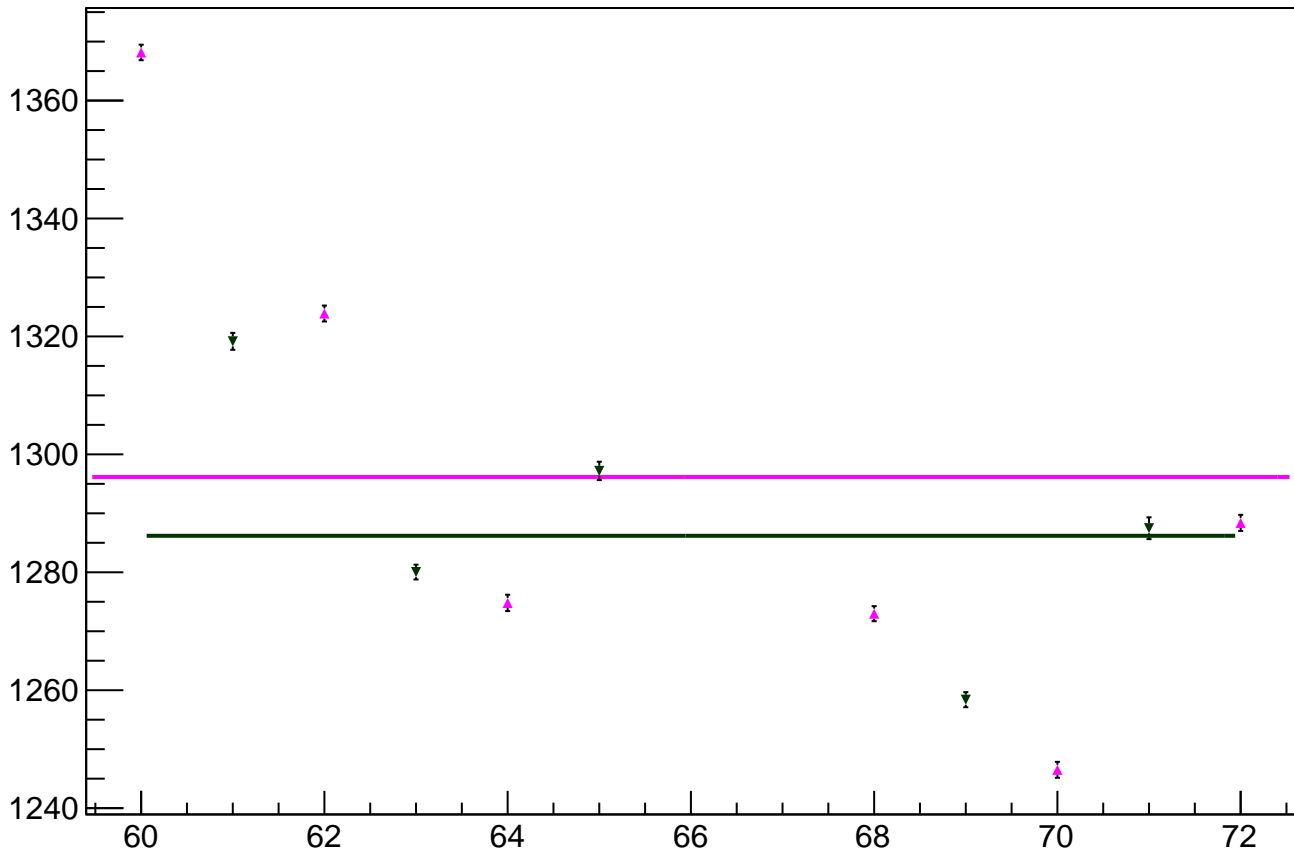
34.907+/-0.905  $\chi^2/\text{NDF}$ : 4133.6/4

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

-24.195+/-0.774  $\chi^2/\text{NDF}$ : 2337.6/5

Left In: -24.195+/-0.774  $\chi^2/\text{NDF}$ : 2337.6/5

# diff\_bpm2i02X\_rms vs slug



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

Left Out: 1286.190+/-0.640  $\chi^2$ /NDF:1075.8/4

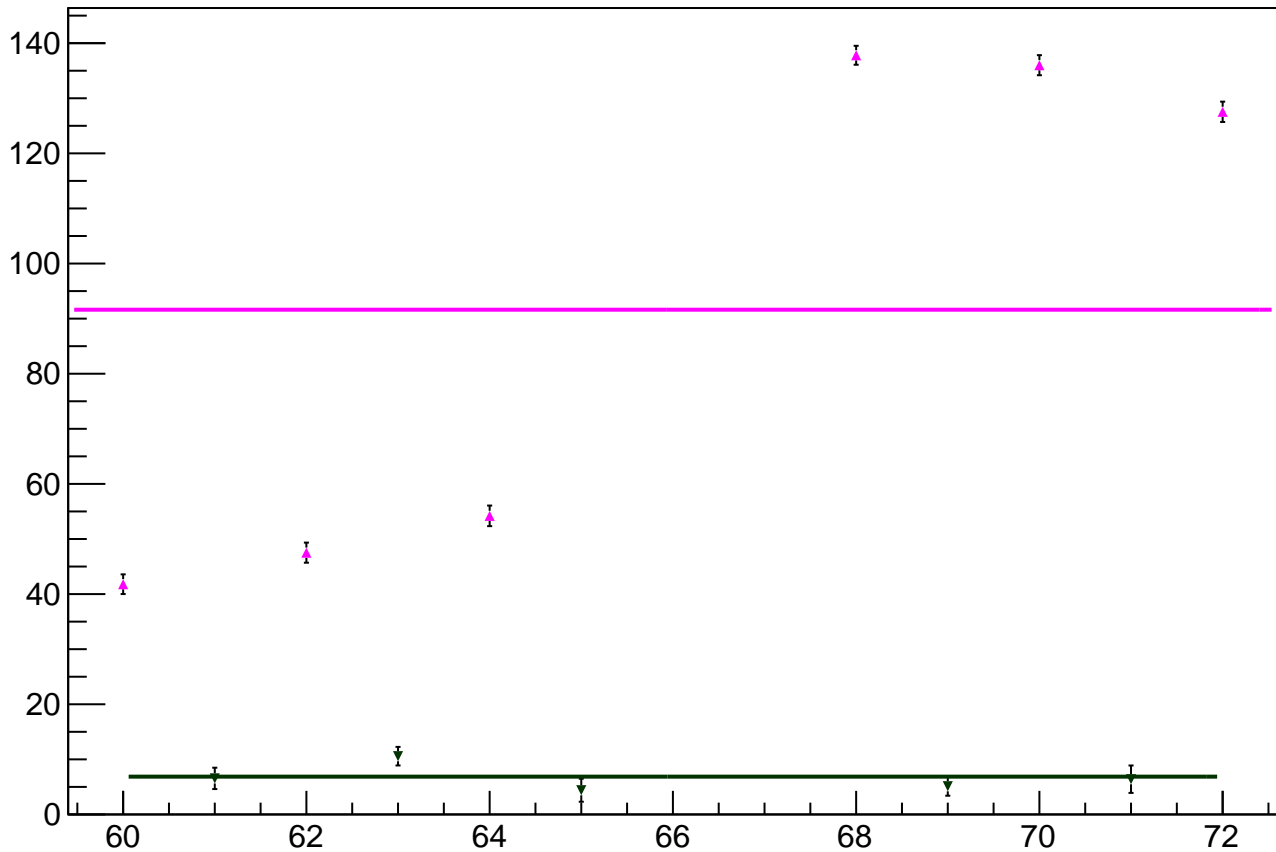
1286.190+/-0.640  $\chi^2$ /NDF: 1075.8/4

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

1296.162+/-0.547  $\chi^2$ /NDF: 5350.0/5

Left In: 1296.162+/-0.547  $\chi^2$ /NDF:5350.0/5

# diff\_bpm2i02Y\_mean vs slug



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

Left Out: 6.863+/-0.862  $\chi^2/\text{NDF}$ : 7.3/4

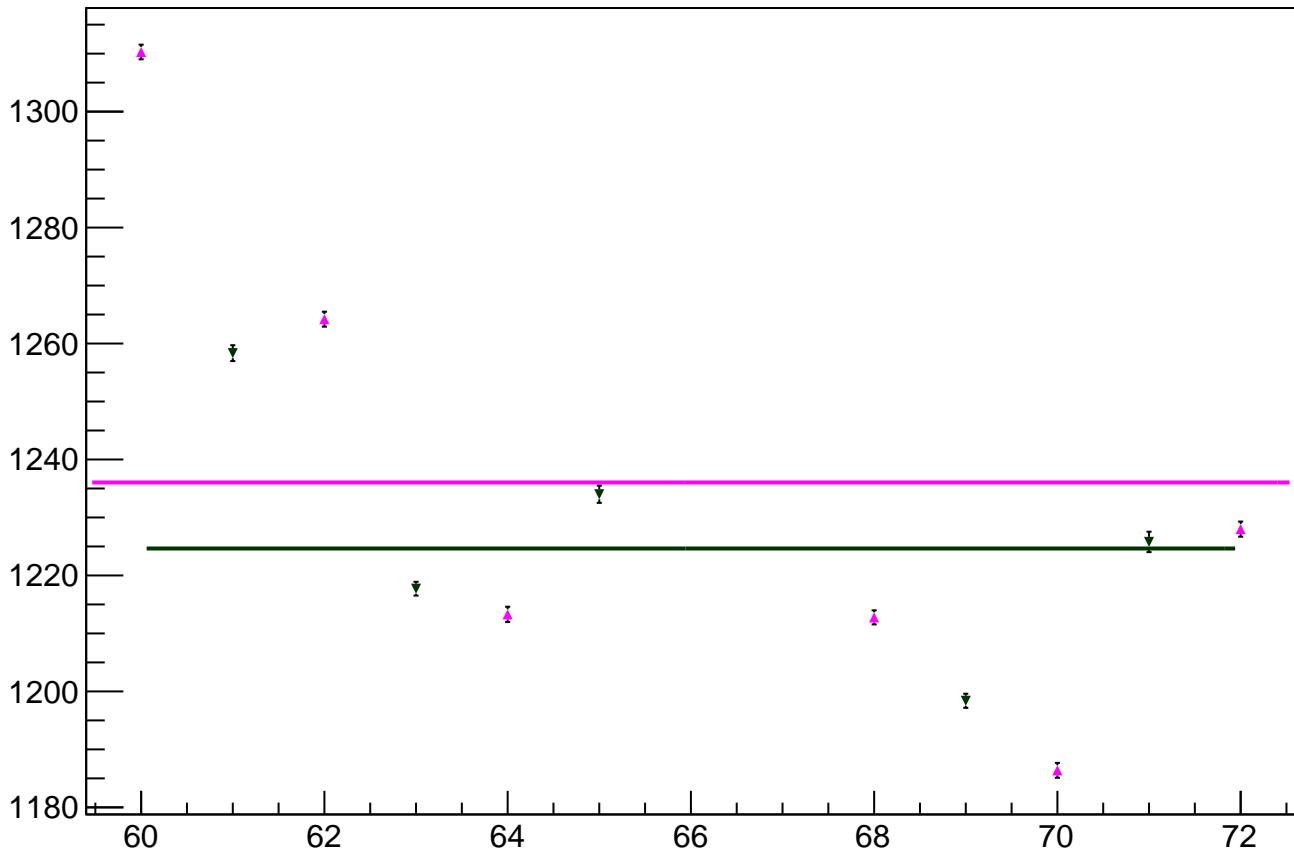
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 91.620+/-0.738  $\chi^2/\text{NDF}$ : 3458.4/5

6.863+/-0.862  $\chi^2/\text{NDF}$ : 7.3/4

91.620+/-0.738  $\chi^2/\text{NDF}$ : 3458.4/5

# diff\_bpm2i02Y\_rms vs slug



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

Left Out: 1224.647+/-0.609  $\chi^2$ /NDF: 1145.4/4

1224.647+/-0.609  $\chi^2$ /NDF: 1145.4/4

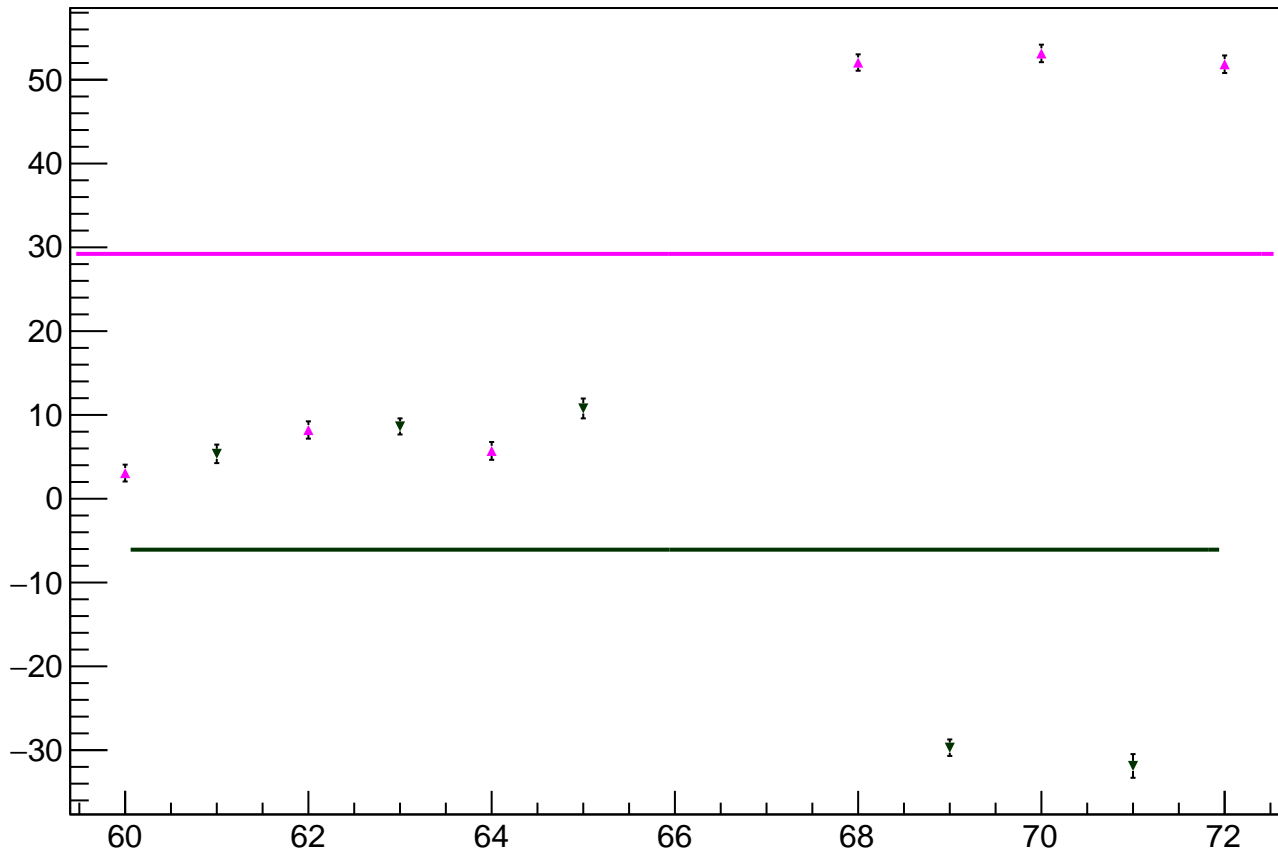
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1236.035+/-0.522  $\chi^2$ /NDF: 6118.8/5

1236.035+/-0.522  $\chi^2$ /NDF: 6118.8/5



# diff\_bpm1i04X\_mean vs slug



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

Left Out: -6.078+/-0.491  $\chi^2$ /NDF: 1454.3/4

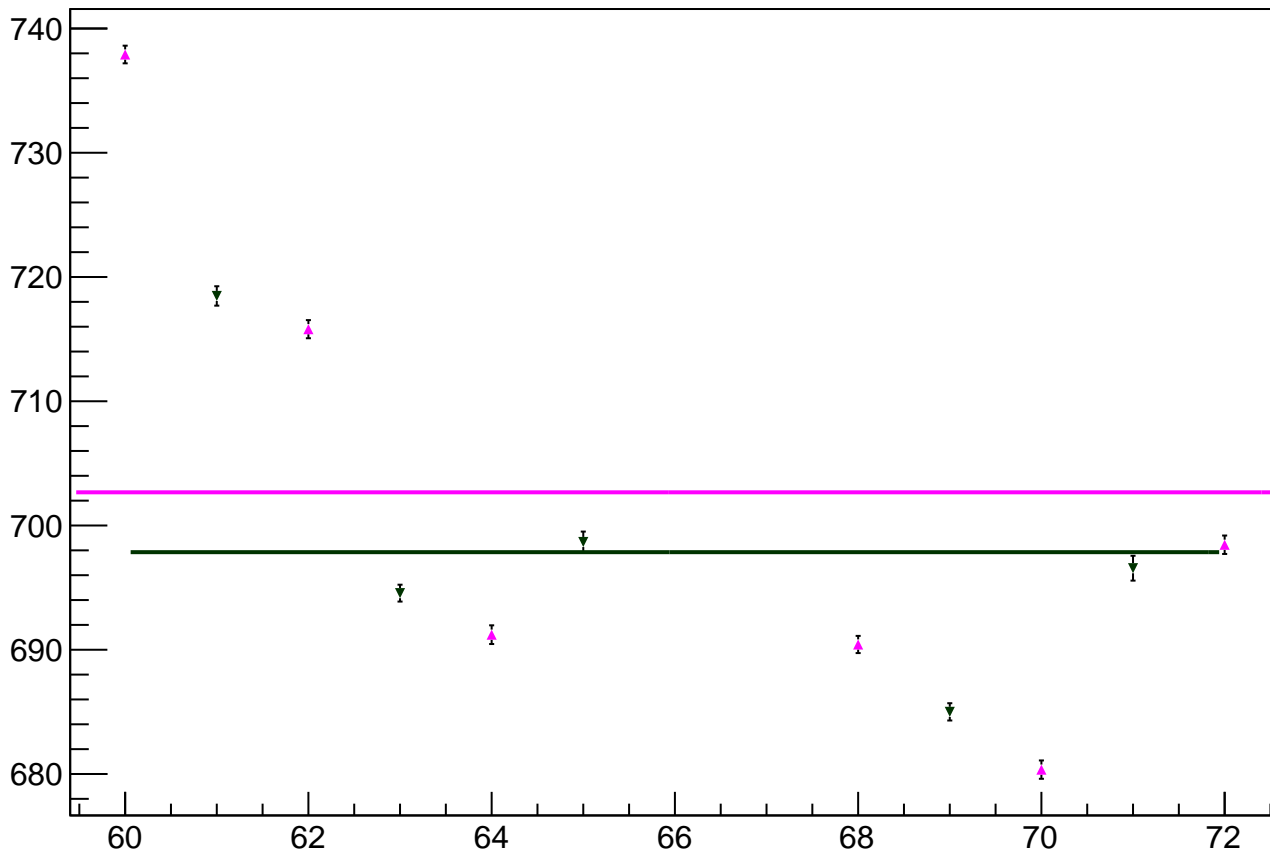
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 29.218+/-0.420  $\chi^2$ /NDF: 3115.0/5

-6.078+/-0.491  $\chi^2$ /NDF: 1454.3/4

29.218+/-0.420  $\chi^2$ /NDF: 3115.0/5

# diff\_bpm1i04X\_rms vs slug



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

Left Out: 697.854+/-0.347  $\chi^2/\text{NDF}$ : 1065.2/4

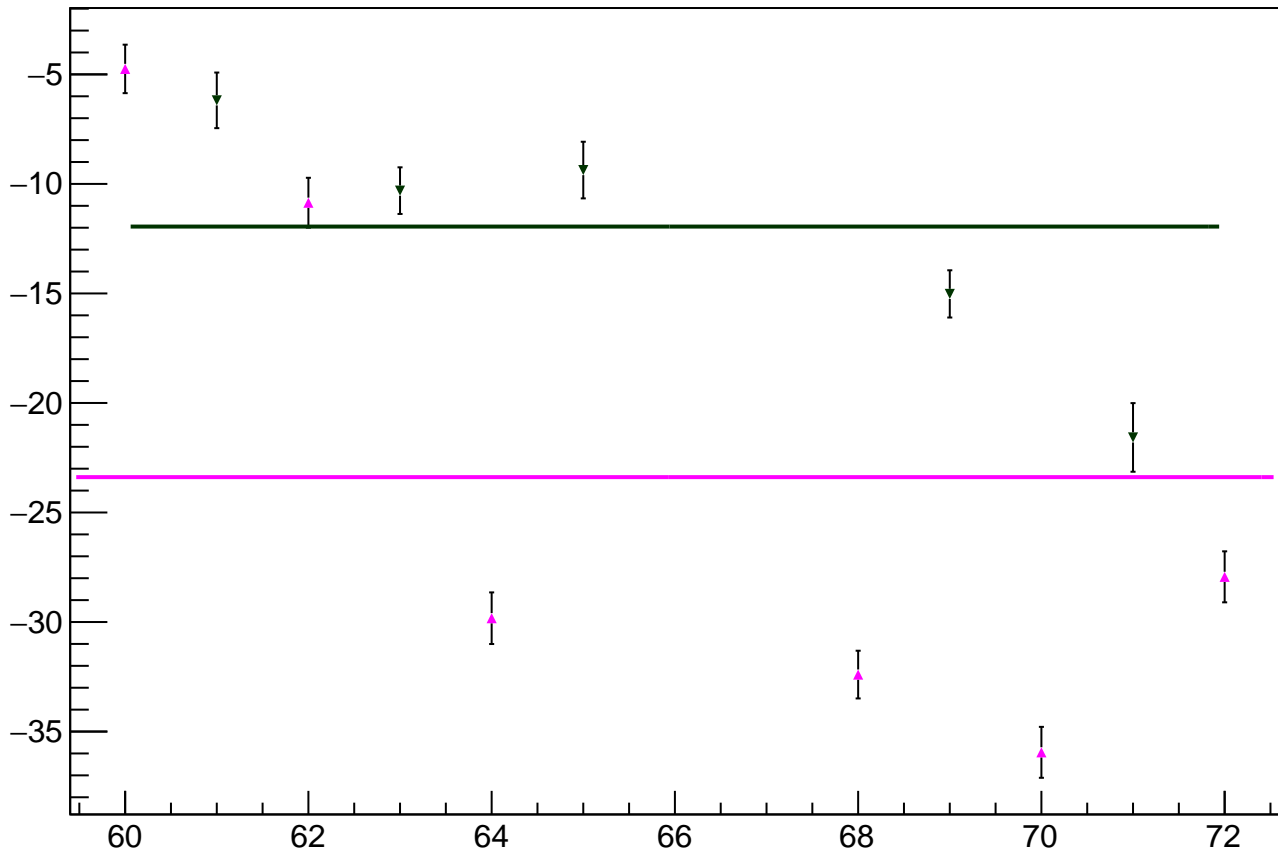
697.854+/-0.347  $\chi^2/\text{NDF}$ : 1065.2/4

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

Left In: 702.671+/-0.297  $\chi^2/\text{NDF}$ : 4274.2/5

702.671+/-0.297  $\chi^2/\text{NDF}$ : 4274.2/5

# diff\_bpm1i04Y\_mean vs slug



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

Left Out: -11.947+/-0.545  $\chi^2/\text{NDF}$ : 72.8/4

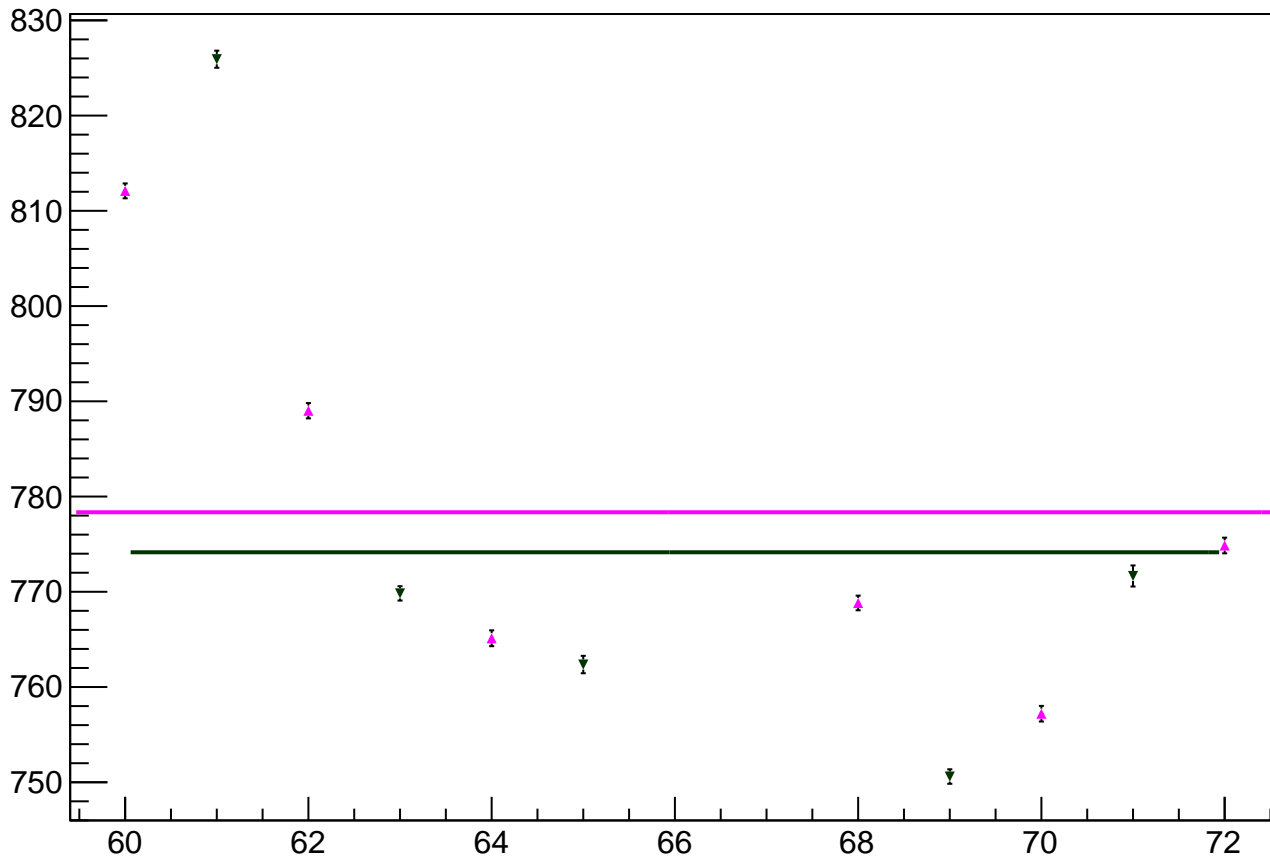
-11.947+/-0.545  $\chi^2/\text{NDF}$ : 72.8/4

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

-23.386+/-0.465  $\chi^2/\text{NDF}$ : 635.3/5

Left In: -23.386+/-0.465  $\chi^2/\text{NDF}$ : 635.3/5

# diff\_bpm1i04Y\_rms vs slug



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

Left Out: 774.149+/-0.385  $\chi^2/\text{NDF}$ : 4485.3/4

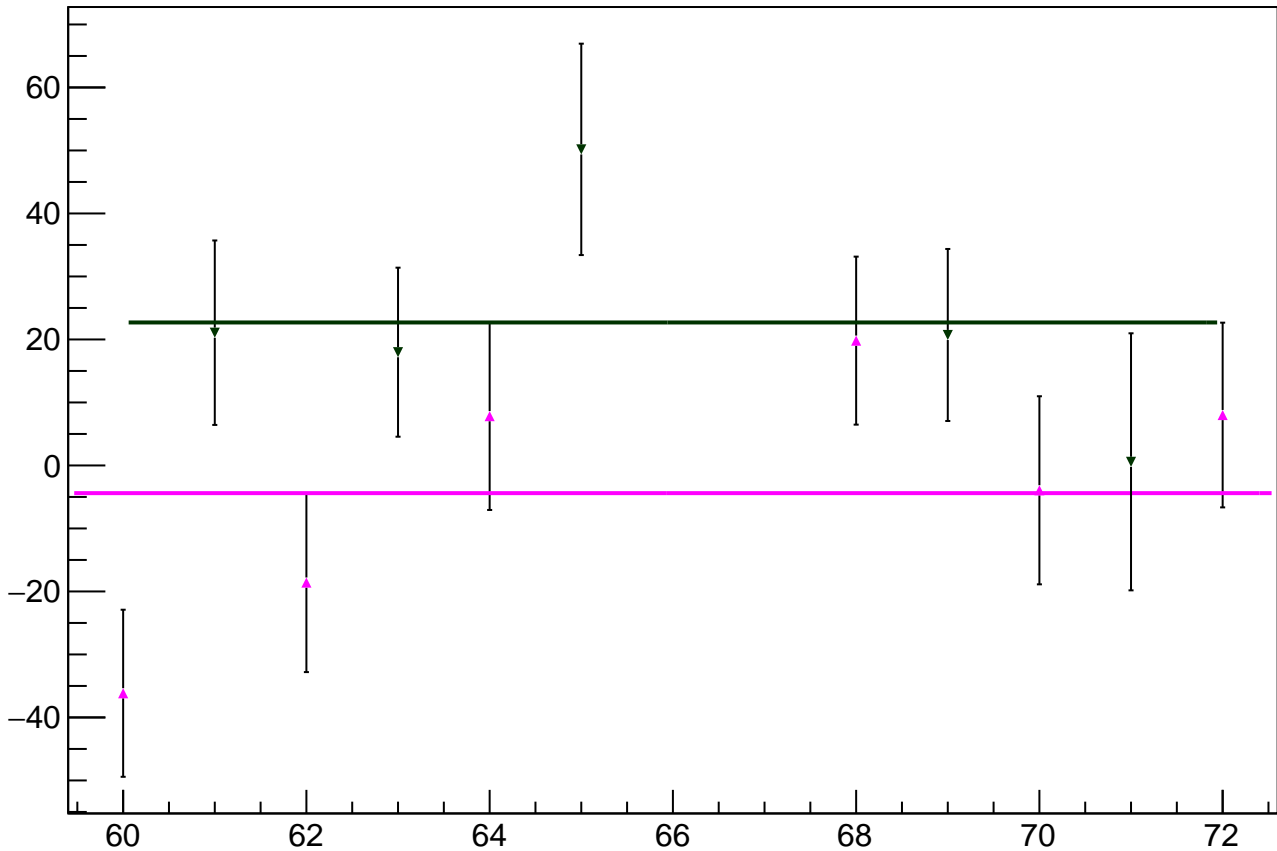
774.149+/-0.385  $\chi^2/\text{NDF}$ : 4485.3/4

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

778.350+/-0.329  $\chi^2/\text{NDF}$ : 3120.6/5

Left In: 778.350+/-0.329  $\chi^2/\text{NDF}$ : 3120.6/5

# diff\_bpm0l02X\_mean vs slug



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

Left Out: 22.697+/-6.813  $\chi^2$ /NDF:4.0/4

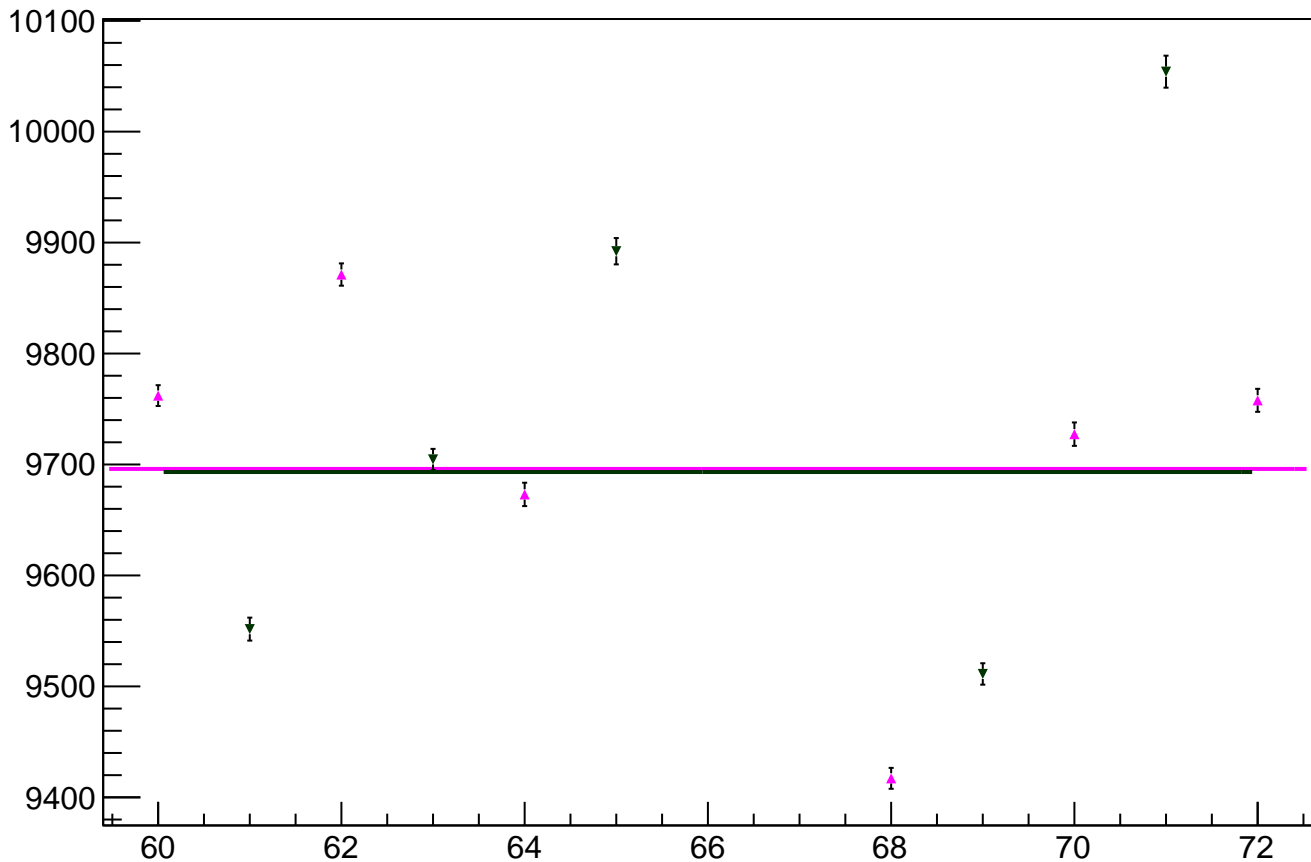
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -4.395+/-5.782  $\chi^2$ /NDF:11.4/5

22.697+/-6.813  $\chi^2$ /NDF: 4.0/4

-4.395+/-5.782  $\chi^2$ /NDF: 11.4/5

# diff\_bpm0l02X\_rms vs slug



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

Left Out: 9693.204+/-4.818  $\chi^2$ /NDF:1450.9/4

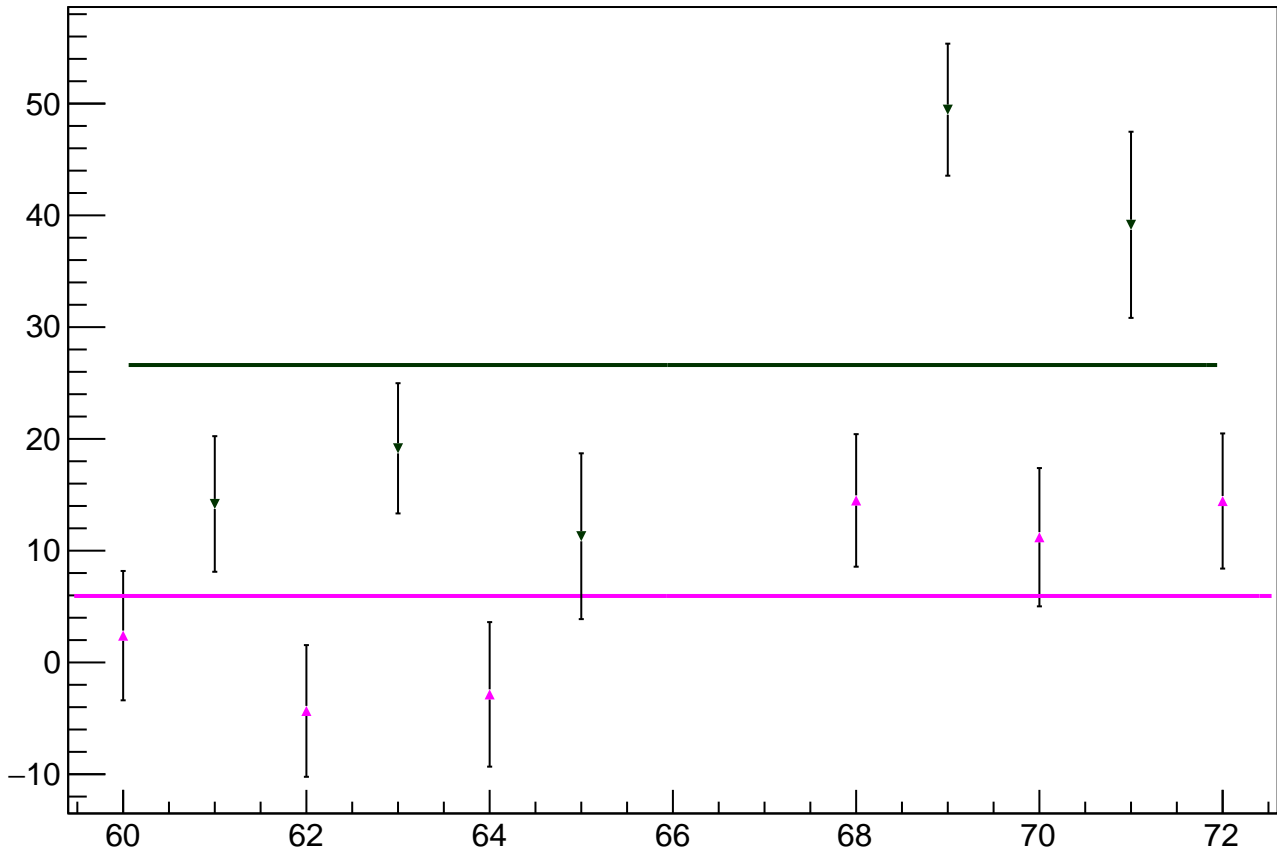
9693.204+/-4.818  $\chi^2$ /NDF: 1450.9/4

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

Left In: 9695.992+/-4.089  $\chi^2$ /NDF:1277.5/5

9695.992+/-4.089  $\chi^2$ /NDF: 1277.5/5

# diff\_bpm0l02Y\_mean vs slug



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

Left Out: 26.610+/-2.912  $\chi^2/\text{NDF}$ :27.3/4

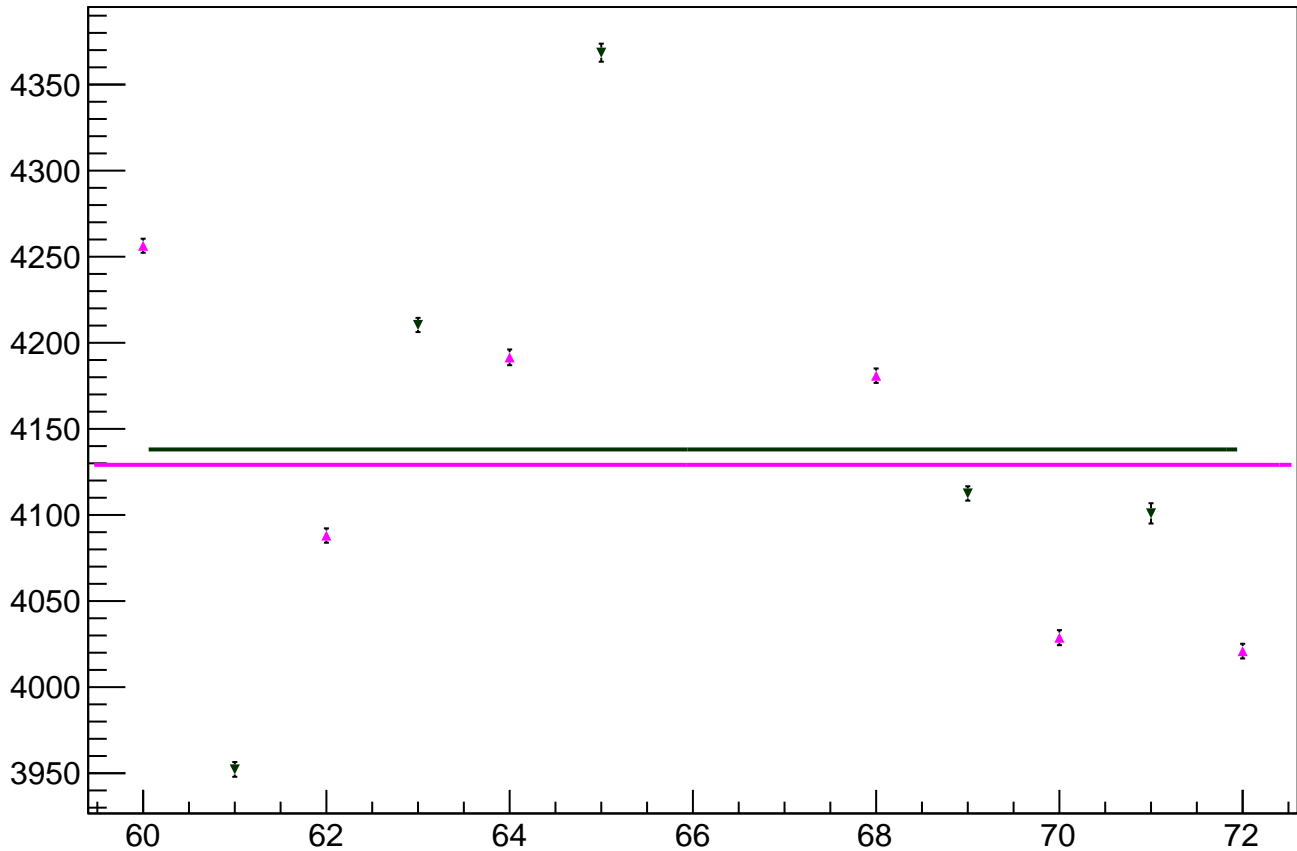
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 5.948+/-2.465  $\chi^2/\text{NDF}$ :10.1/5

26.610+/-2.912  $\chi^2/\text{NDF}$ : 27.3/4

5.948+/-2.465  $\chi^2/\text{NDF}$ : 10.1/5

# diff\_bpm0l02Y\_rms vs slug



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

4138.054+/-2.059  $\chi^2$ /NDF: 4192.9/4

Left Out: 4138.054+/-2.059  $\chi^2$ /NDF:4192.9/4

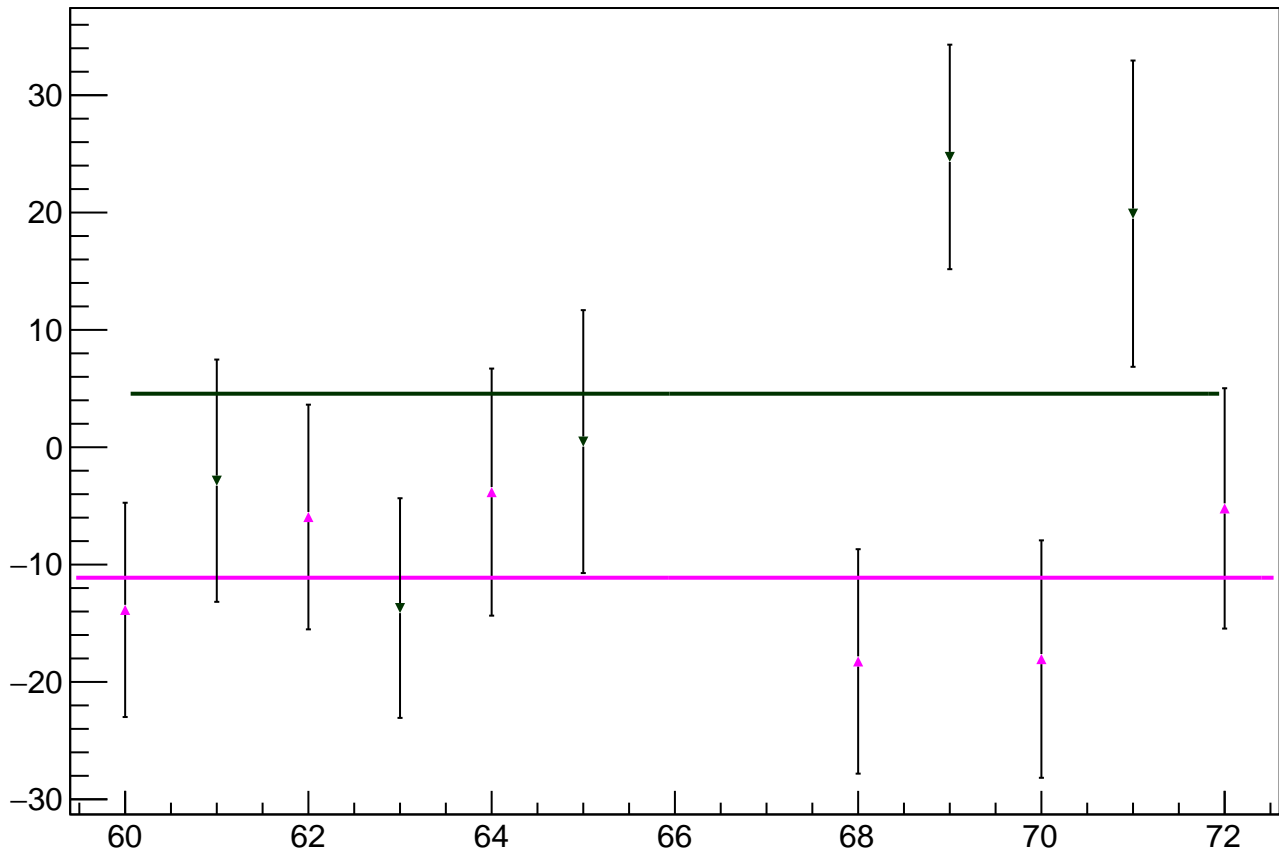
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

4129.120+/-1.743  $\chi^2$ /NDF: 2570.7/5

Left In: 4129.120+/-1.743  $\chi^2$ /NDF:2570.7/5



# diff\_bpm0l03X\_mean vs slug



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

Left Out: 4.562+/-4.685  $\chi^2/\text{NDF}$ : 10.3/4

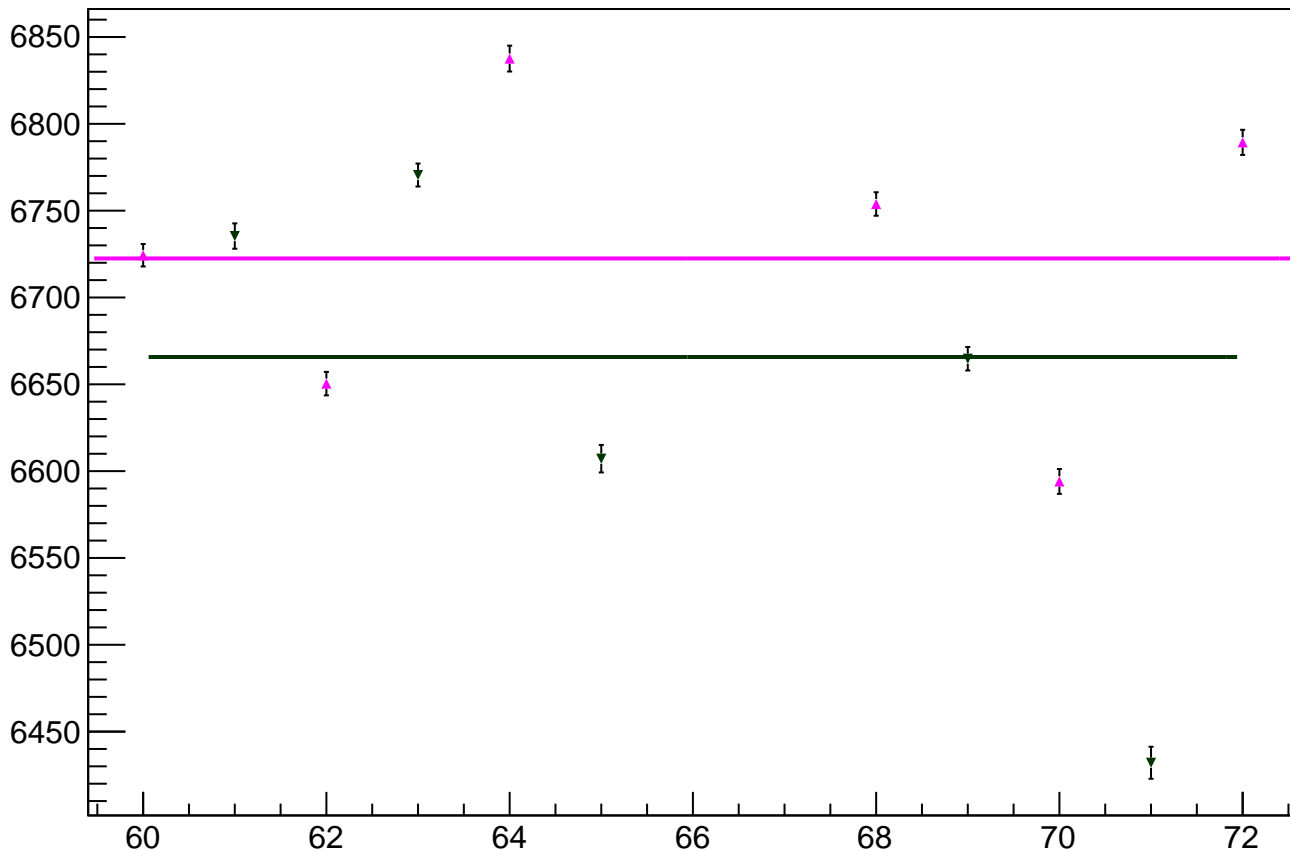
4.562+/-4.685  $\chi^2/\text{NDF}$ : 10.3/4

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

Left In: -11.119+/-4.011  $\chi^2/\text{NDF}$ : 2.2/5

-11.119+/-4.011  $\chi^2/\text{NDF}$ : 2.2/5

# diff\_bpm0l03X\_rms vs slug



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

Left Out: 6665.728+/-3.313  $\chi^2$ /NDF:1037.7/4

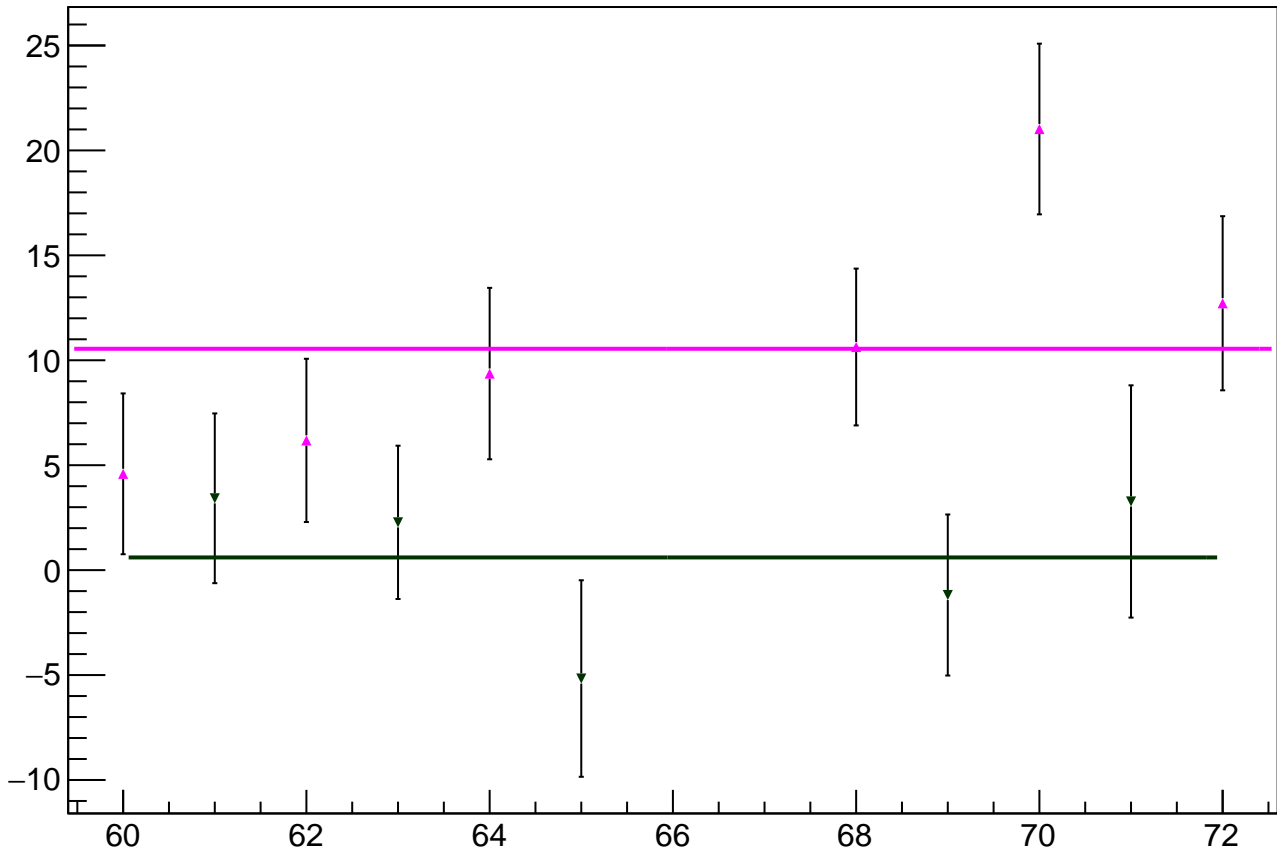
6665.728+/-3.313  $\chi^2$ /NDF: 1037.7/4

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

Left In: 6722.478+/-2.836  $\chi^2$ /NDF:781.5/5

6722.478+/-2.836  $\chi^2$ /NDF: 781.5/5

# diff\_bpm0l03Y\_mean vs slug



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

Left Out: 0.604+/-1.882  $\chi^2/\text{NDF}$ : 2.7/4

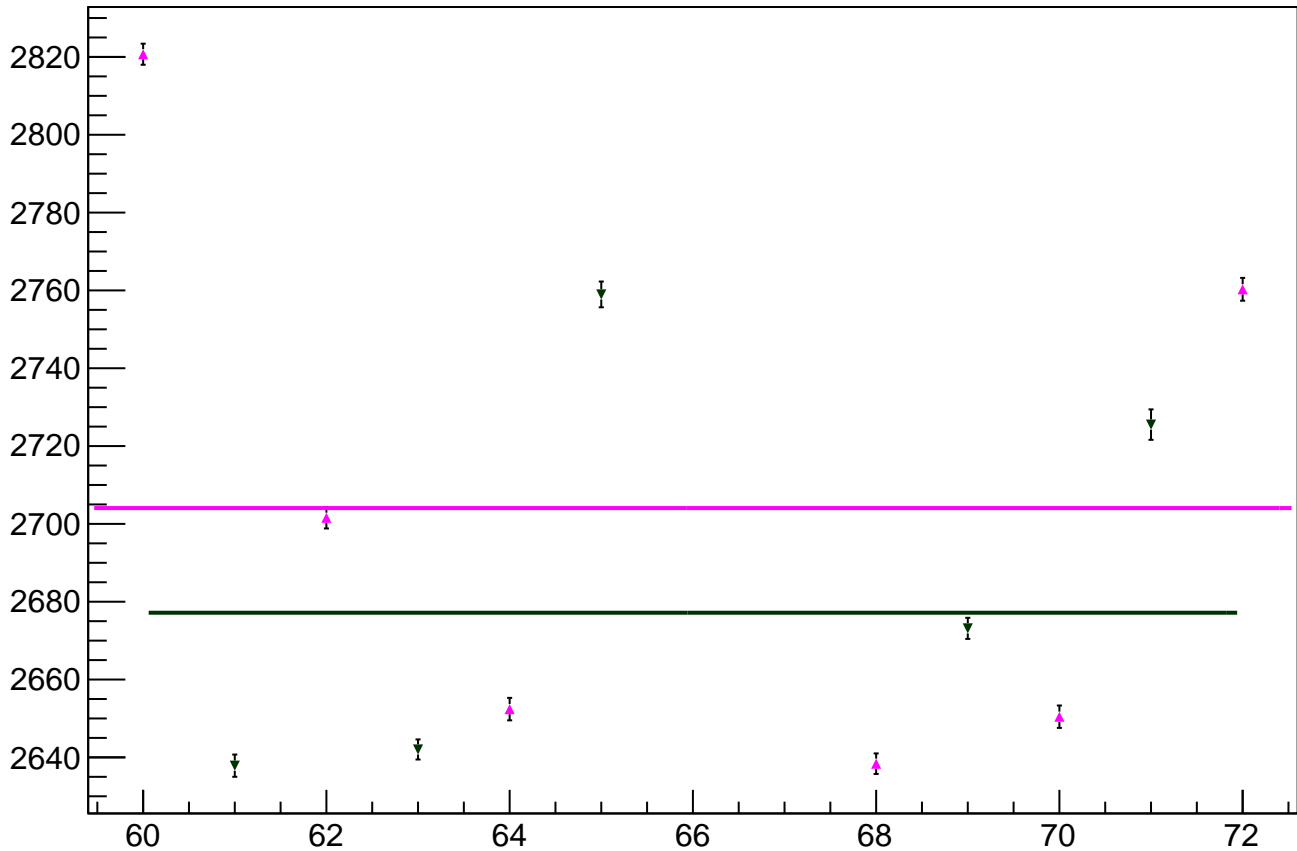
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 10.548+/-1.613  $\chi^2/\text{NDF}$ : 10.7/5

0.604+/-1.882  $\chi^2/\text{NDF}$ : 2.7/4

10.548+/-1.613  $\chi^2/\text{NDF}$ : 10.7/5

# diff\_bpm0l03Y\_rms vs slug



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

2677.170+/-1.331  $\chi^2$ /NDF: 1139.2/4

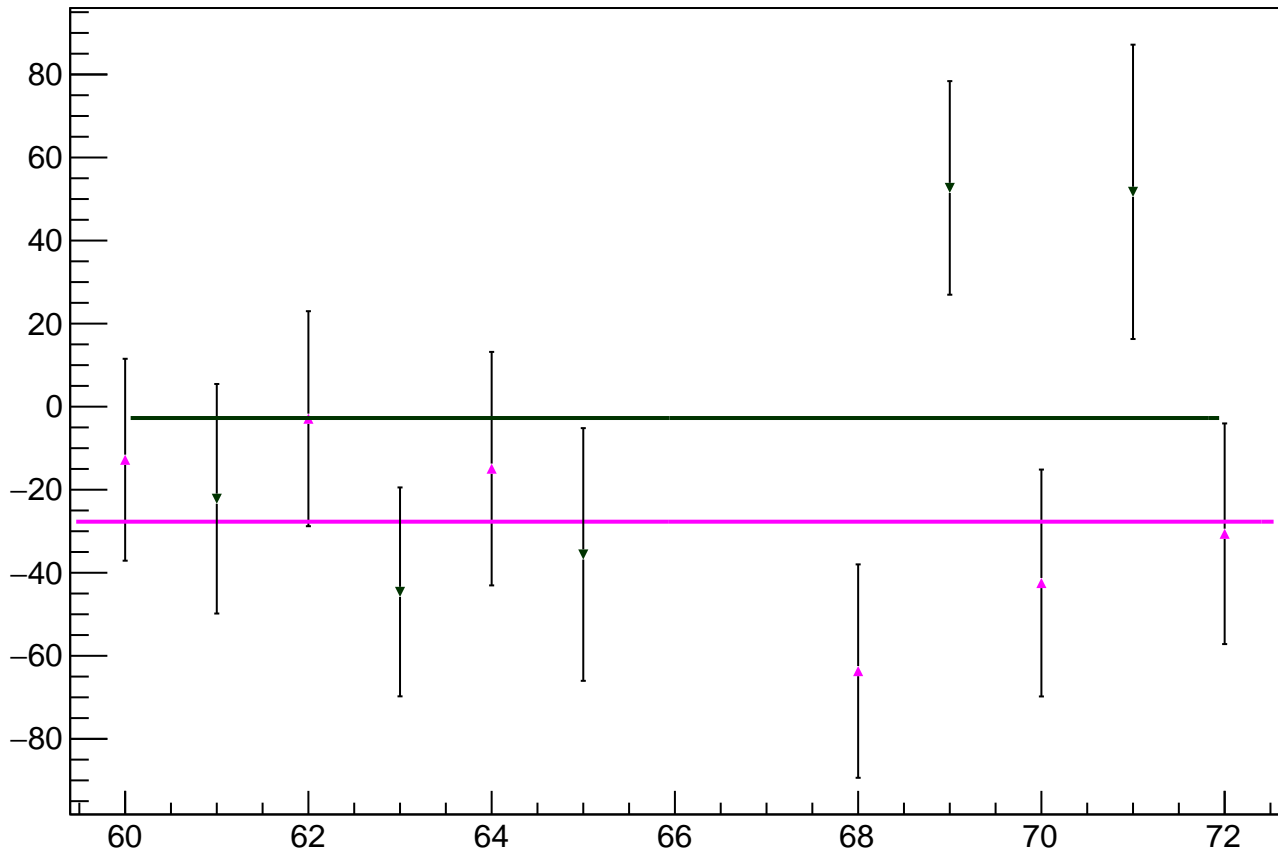
Left Out: 2677.170+/-1.331  $\chi^2$ /NDF:1139.2/4

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

2704.070+/-1.141  $\chi^2$ /NDF: 3507.2/5

Left In: 2704.070+/-1.141  $\chi^2$ /NDF:3507.2/5

# diff\_bpm0l04X\_mean vs slug



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

Left Out: -2.734+/-12.622  $\chi^2/\text{NDF}$ : 11.4/4

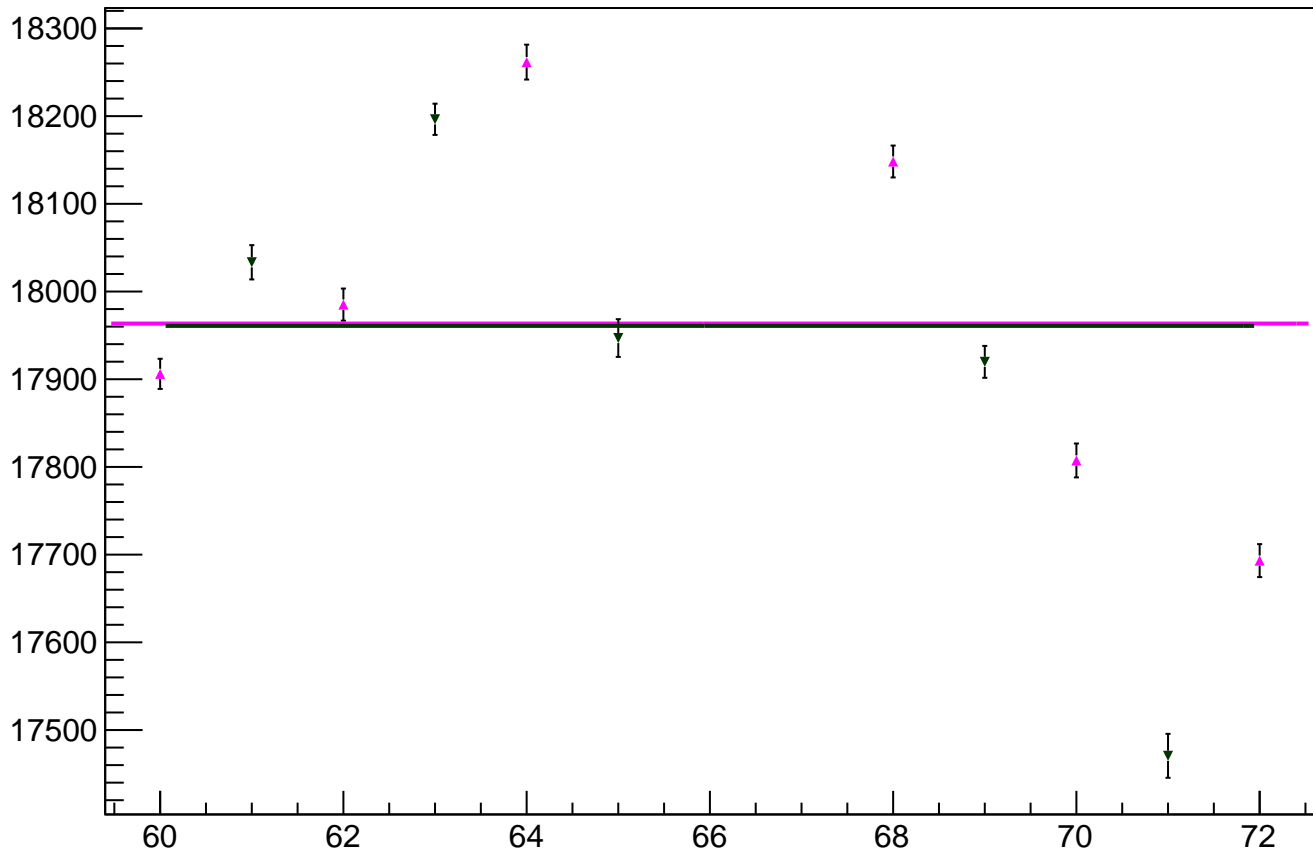
-2.734+/-12.622  $\chi^2/\text{NDF}$ : 11.4/4

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

-27.699+/-10.709  $\chi^2/\text{NDF}$ : 3.8/5

Left In: -27.699+/-10.709  $\chi^2/\text{NDF}$ : 3.8/5

# diff\_bpm0l04X\_rms vs slug



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

Left Out: 17960.820+/-8.925  $\chi^2$ /NDF:577.3/4

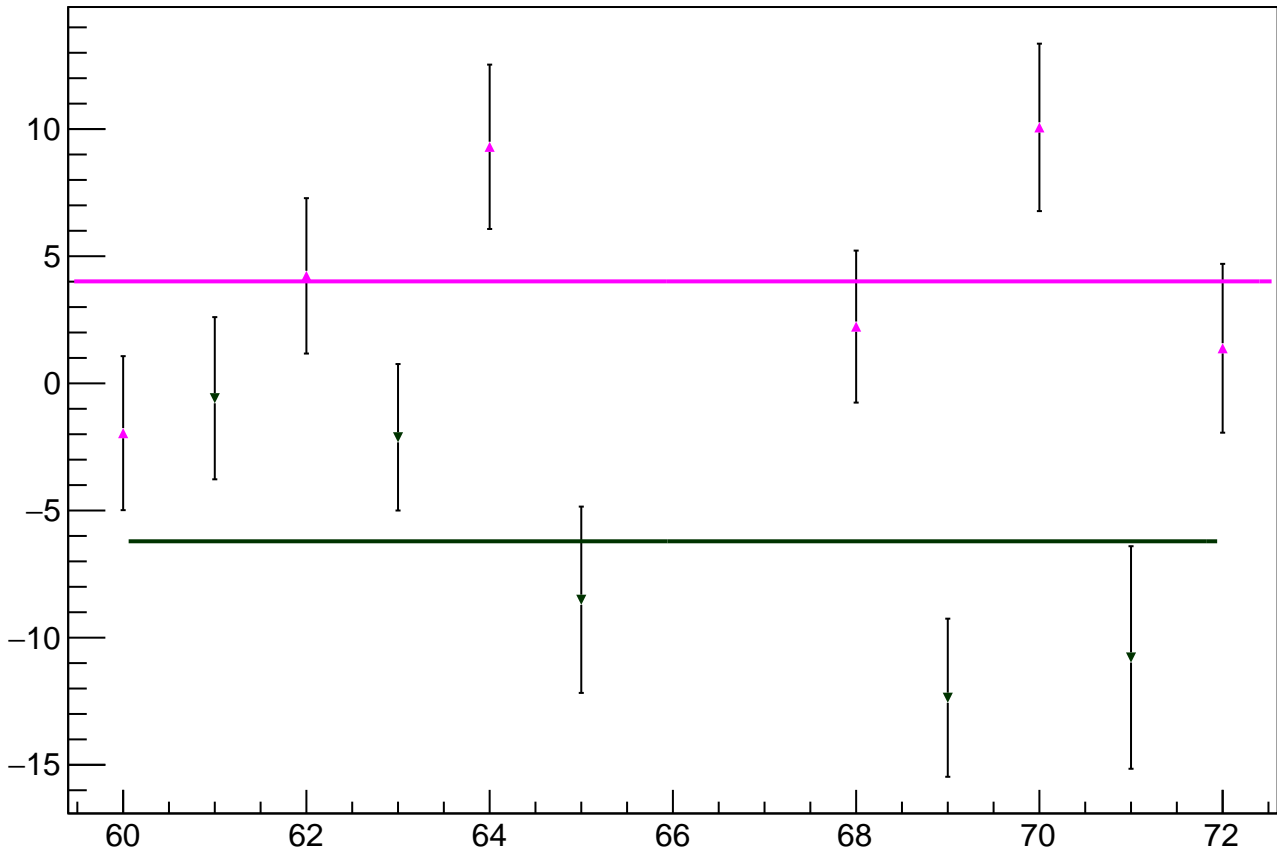
17960.820+/-8.925  $\chi^2$ /NDF: 577.3/4

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

17963.496+/-7.572  $\chi^2$ /NDF: 613.1/5

Left In: 17963.496+/-7.572  $\chi^2$ /NDF:613.1/5

# diff\_bpm0l04Y\_mean vs slug



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

Left Out: -6.210+/-1.492  $\chi^2/\text{NDF}$ : 10.5/4

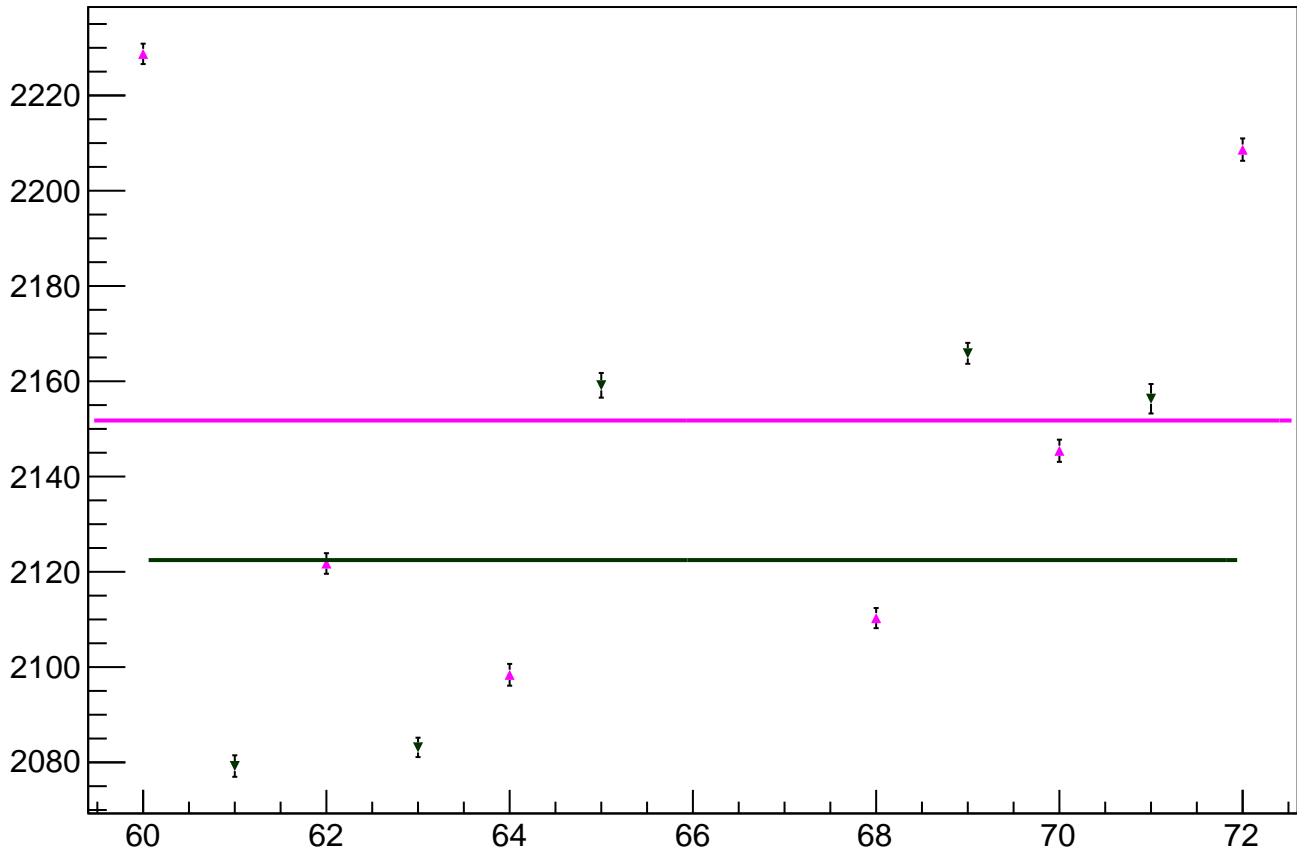
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.011+/-1.284  $\chi^2/\text{NDF}$ : 10.9/5

-6.210+/-1.492  $\chi^2/\text{NDF}$ : 10.5/4

4.011+/-1.284  $\chi^2/\text{NDF}$ : 10.9/5

# diff\_bpm0l04Y\_rms vs slug



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

2122.464+/-1.055  $\chi^2$ /NDF: 1450.6/4

Left Out: 2122.464+/-1.055  $\chi^2$ /NDF:1450.6/4

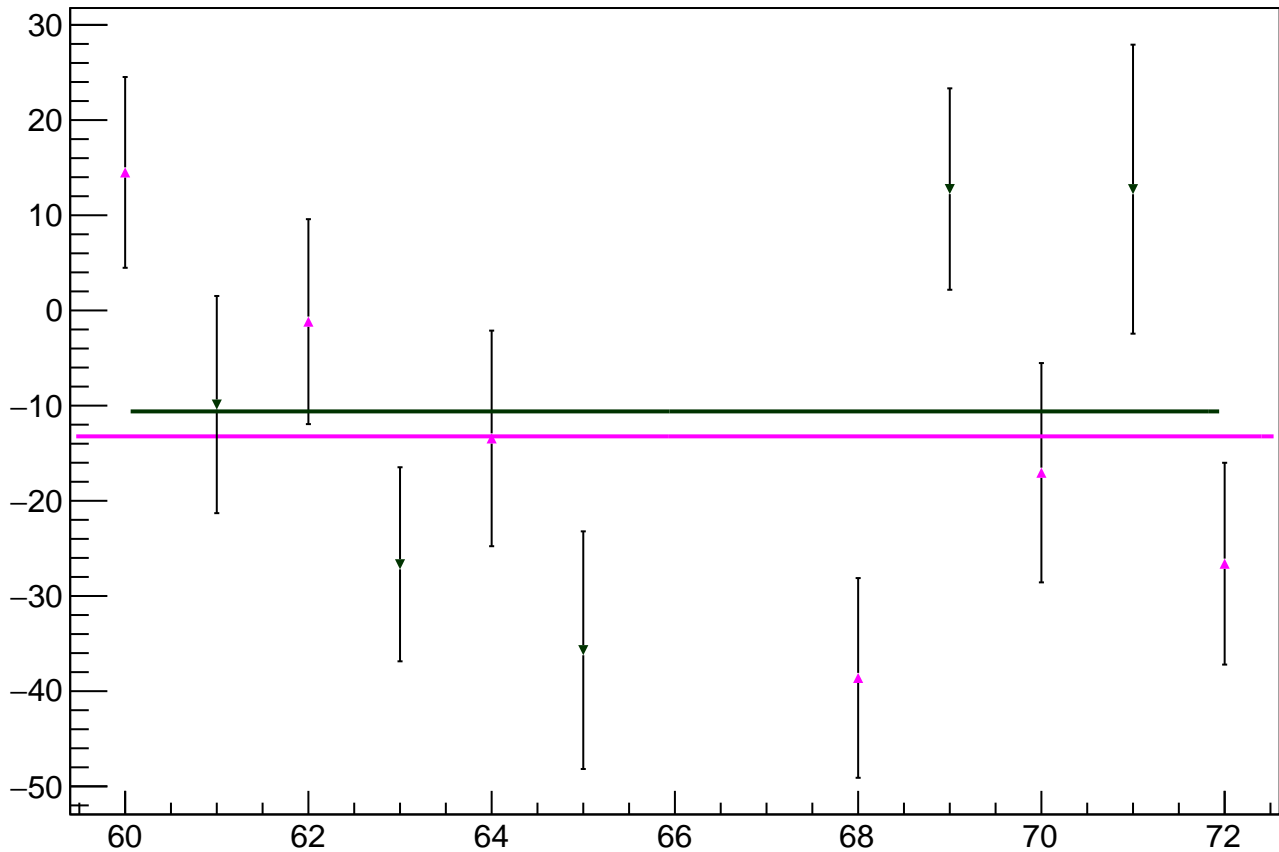
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2151.761+/-0.908  $\chi^2$ /NDF: 3010.8/5

Left In: 2151.761+/-0.908  $\chi^2$ /NDF:3010.8/5



# diff\_bpm0l05X\_mean vs slug



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

Left Out: -10.607+/-5.199  $\chi^2/\text{NDF}$ : 13.8/4

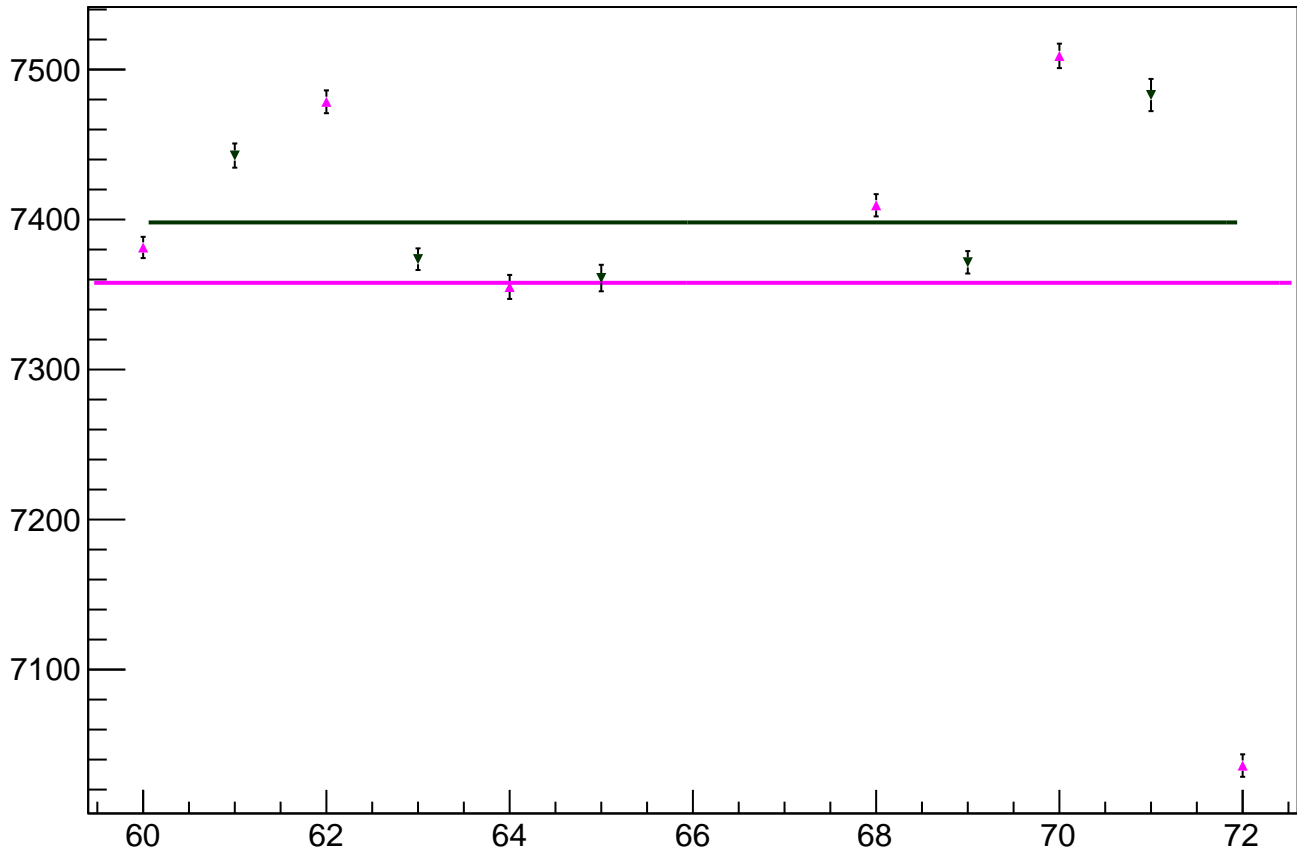
-10.607+/-5.199  $\chi^2/\text{NDF}$ : 13.8/4

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

Left In: -13.229+/-4.390  $\chi^2/\text{NDF}$ : 16.5/5

-13.229+/-4.390  $\chi^2/\text{NDF}$ : 16.5/5

# diff\_bpm0l05X\_rms vs slug



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

7398.067+/-3.676  $\chi^2$ /NDF: 134.9/4

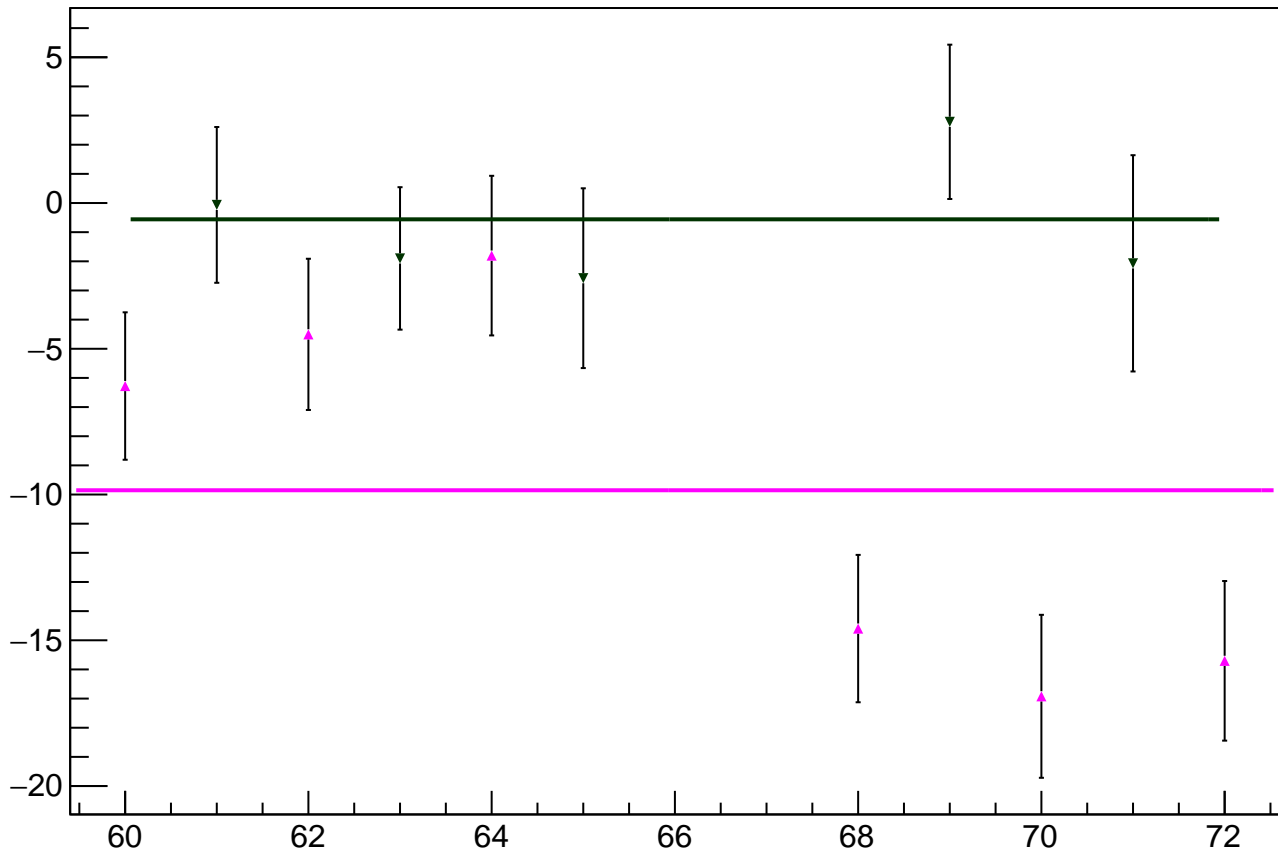
Left Out: 7398.067+/-3.676  $\chi^2$ /NDF:134.9/4

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

7357.815+/-3.104  $\chi^2$ /NDF: 2498.7/5

Left In: 7357.815+/-3.104  $\chi^2$ /NDF:2498.7/5

# diff\_bpm0l05Y\_mean vs slug



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

Left Out: -0.559+/-1.262  $\chi^2$ /NDF:2.5/4

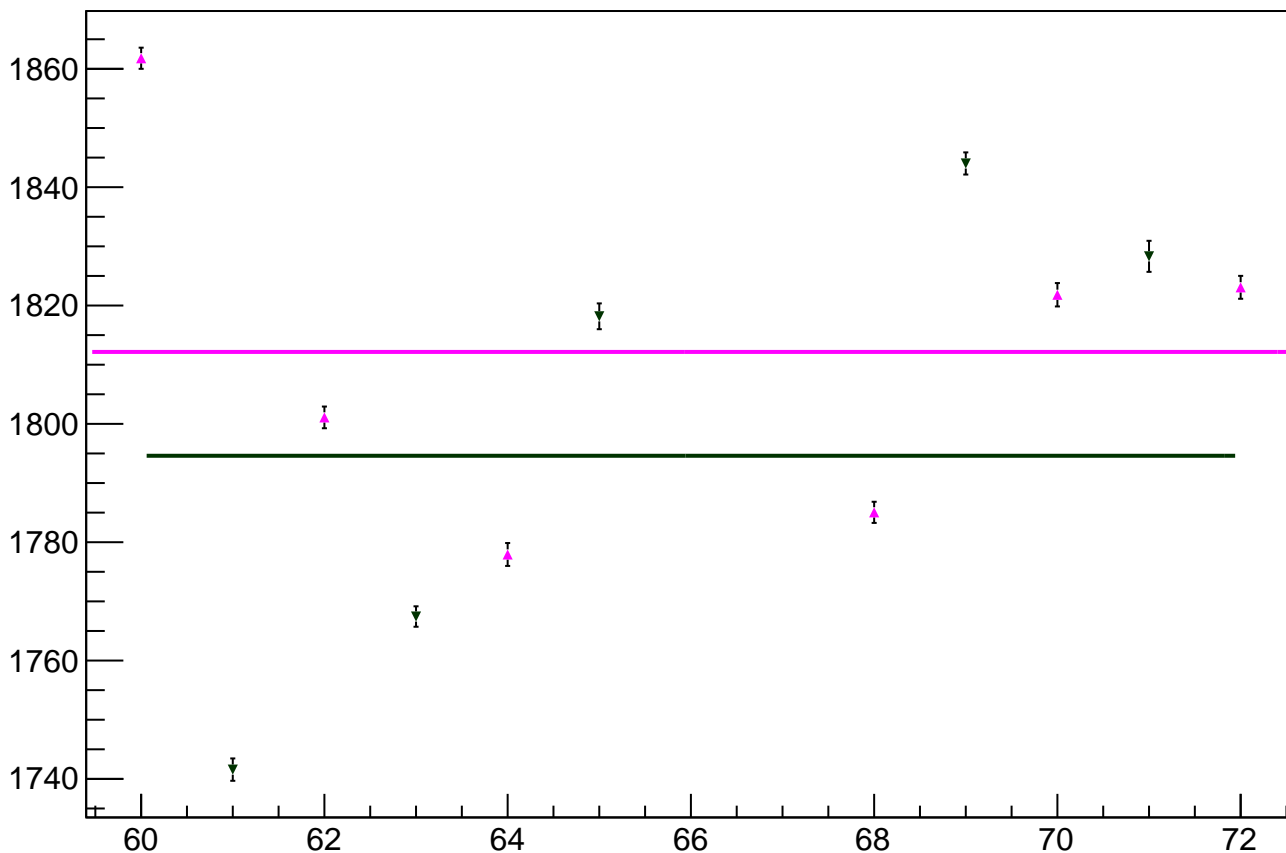
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -9.853+/-1.081  $\chi^2$ /NDF:29.4/5

-0.559+/-1.262  $\chi^2$ /NDF: 2.5/4

-9.853+/-1.081  $\chi^2$ /NDF: 29.4/5

# diff\_bpm0l05Y\_rms vs slug



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

Left Out: 1794.610+/-0.892  $\chi^2/\text{NDF}$ :2013.8/4

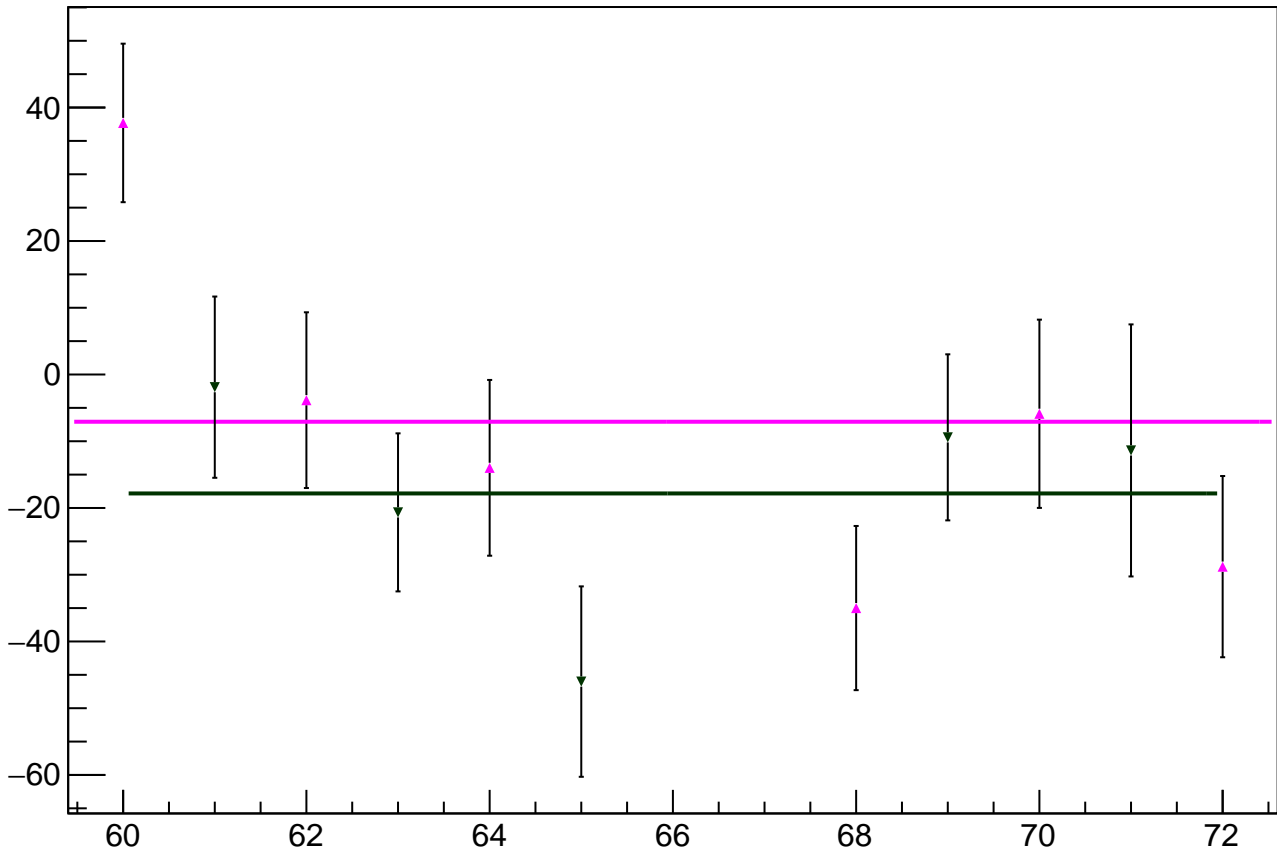
1794.610+/-0.892  $\chi^2/\text{NDF}$ : 2013.8/4

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

1812.158+/-0.764  $\chi^2/\text{NDF}$ : 1405.2/5

Left In: 1812.158+/-0.764  $\chi^2/\text{NDF}$ :1405.2/5

# diff\_bpm0l06X\_mean vs slug



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

Left Out: -17.822+/-6.116  $\chi^2/\text{NDF}$ : 5.9/4

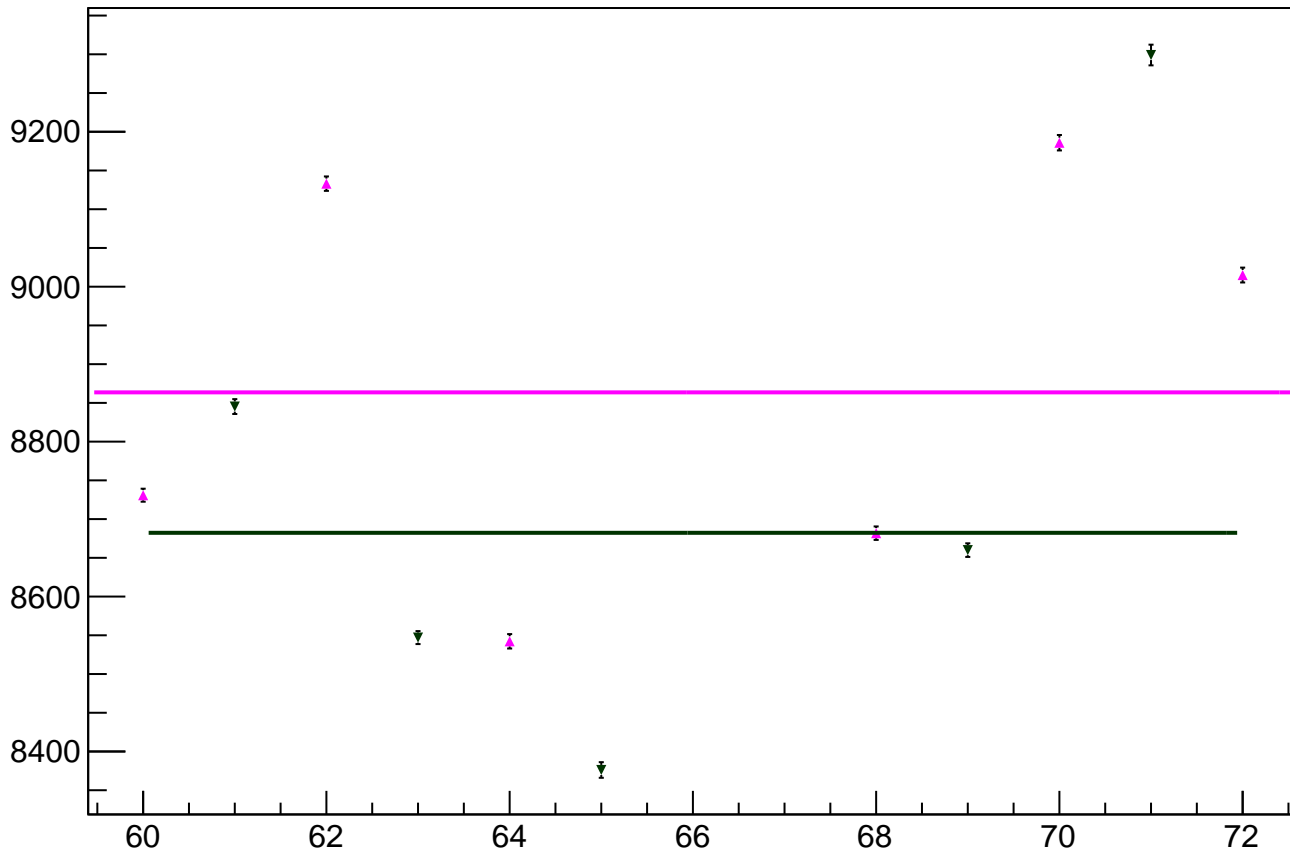
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -7.078+/-5.293  $\chi^2/\text{NDF}$ : 22.3/5

-17.822+/-6.116  $\chi^2/\text{NDF}$ : 5.9/4

-7.078+/-5.293  $\chi^2/\text{NDF}$ : 22.3/5

# diff\_bpm0l06X\_rms vs slug



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

Left Out: 8682.296+/-4.325  $\chi^2/\text{NDF}$ :3610.5/4

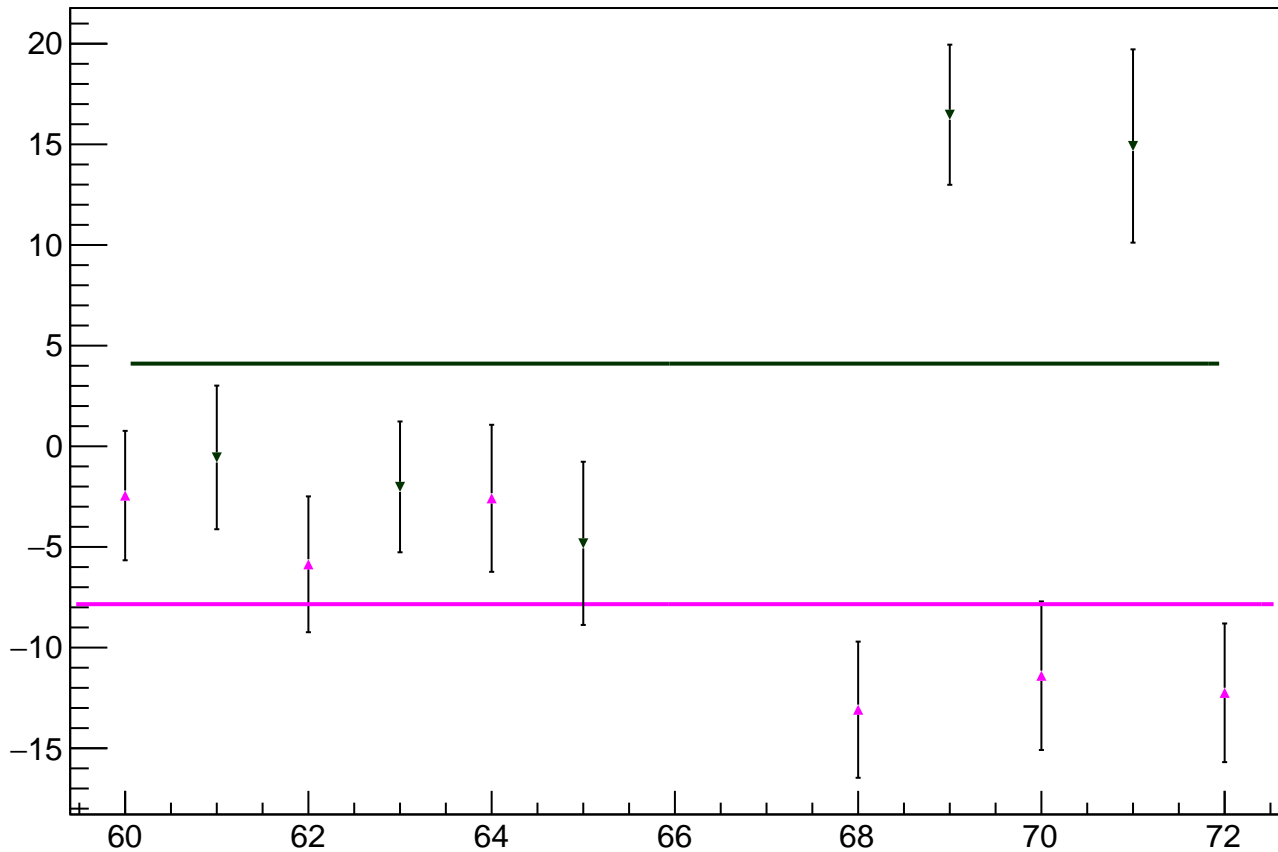
8682.296+/-4.325  $\chi^2/\text{NDF}$ : 3610.5/4

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

8863.590+/-3.743  $\chi^2/\text{NDF}$ : 4008.5/5

Left In: 8863.590+/-3.743  $\chi^2/\text{NDF}$ :4008.5/5

# diff\_bpm0l06Y\_mean vs slug



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

Left Out: 4.107+/-1.666  $\chi^2/\text{NDF}$ :27.8/4

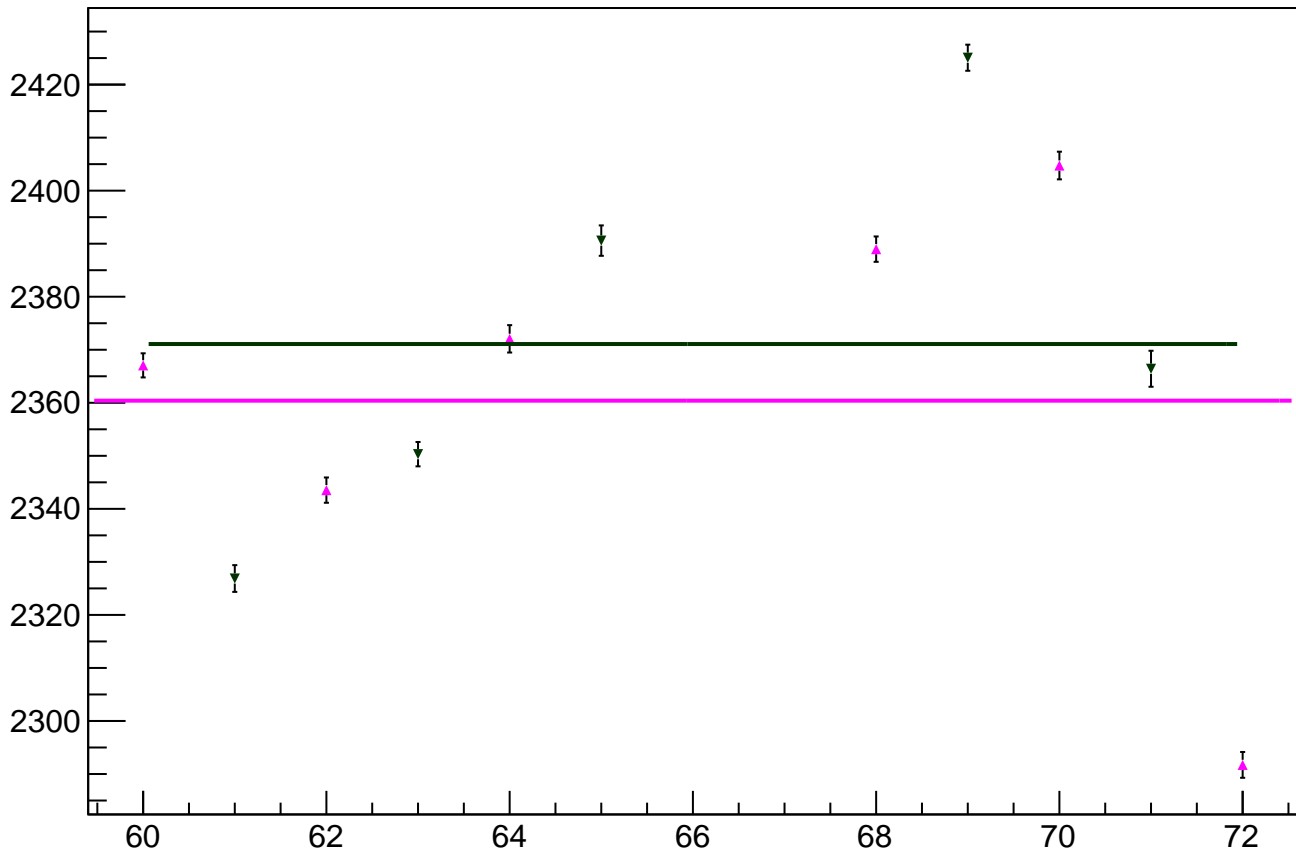
4.107+/-1.666  $\chi^2/\text{NDF}$ : 27.8/4

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

-7.843+/-1.408  $\chi^2/\text{NDF}$ : 10.2/5

Left In: -7.843+/-1.408  $\chi^2/\text{NDF}$ :10.2/5

# diff\_bpm0l06Y\_rms vs slug



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

Left Out: 2371.079+/-1.178  $\chi^2$ /NDF:918.2/4

2371.079+/-1.178  $\chi^2$ /NDF: 918.2/4

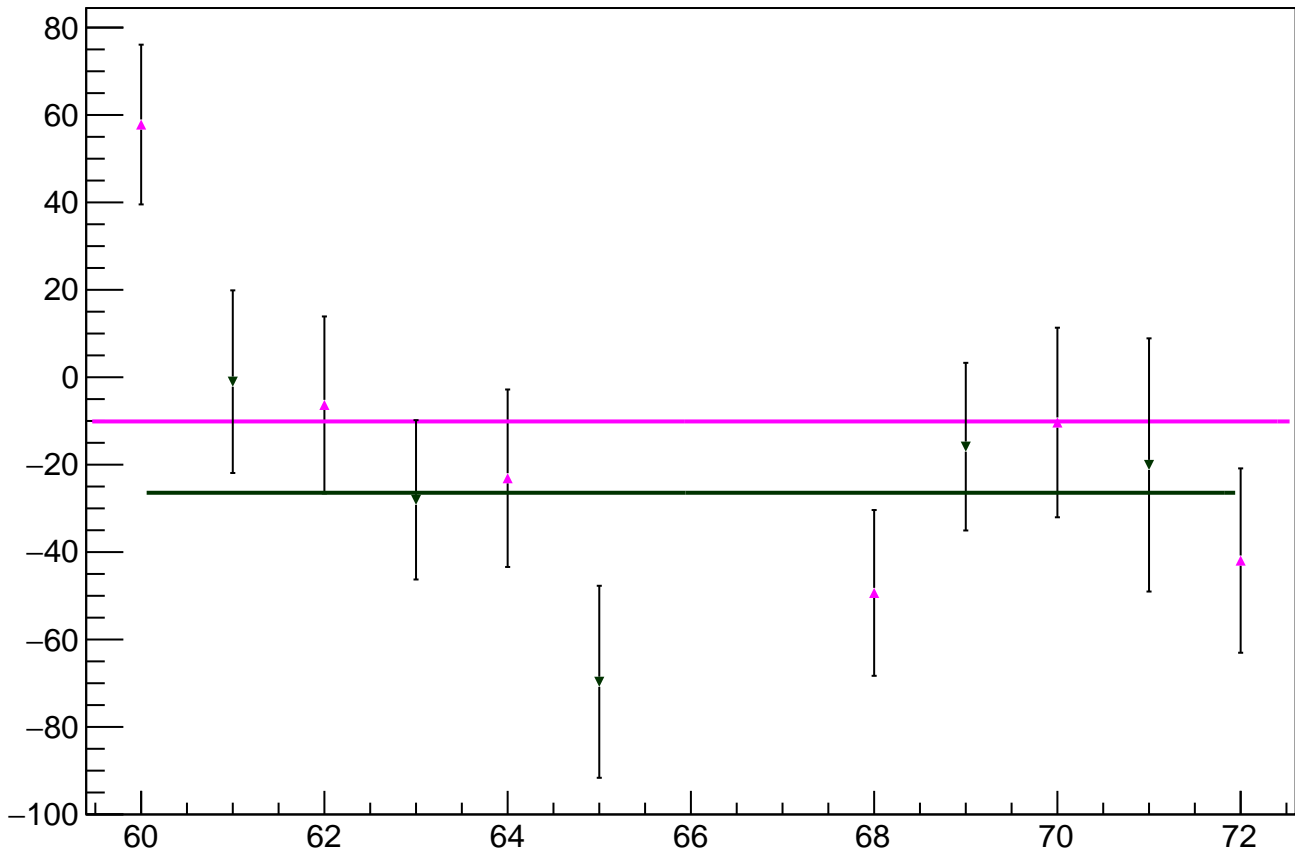
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2360.400+/-0.995  $\chi^2$ /NDF: 1305.9/5

Left In: 2360.400+/-0.995  $\chi^2$ /NDF:1305.9/5



# diff\_bpm0l07X\_mean vs slug



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

Left Out: -26.426+/-9.413  $\chi^2/\text{NDF}$ : 5.7/4

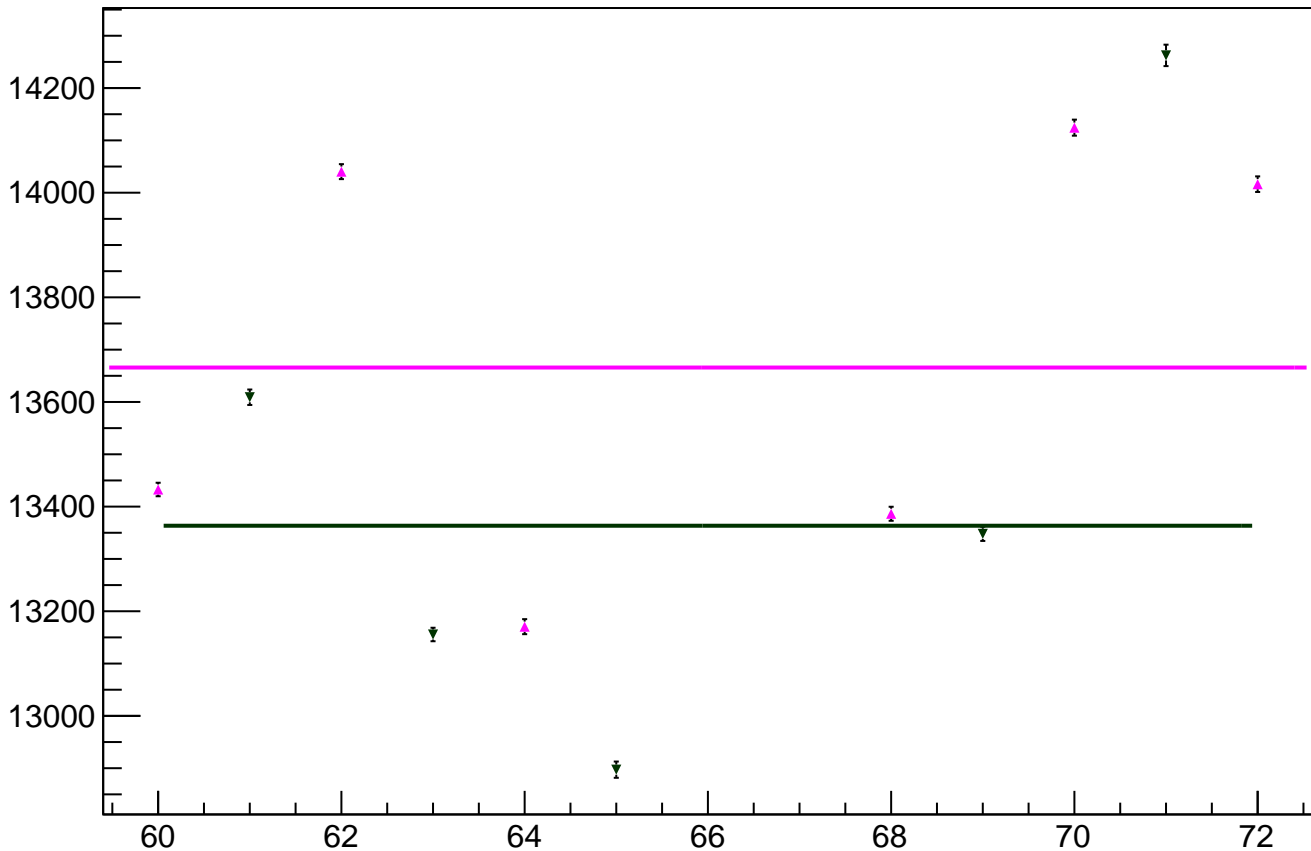
-26.426+/-9.413  $\chi^2/\text{NDF}$ : 5.7/4

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

-10.111+/-8.160  $\chi^2/\text{NDF}$ : 20.8/5

Left In: -10.111+/-8.160  $\chi^2/\text{NDF}$ : 20.8/5

# diff\_bpm0l07X\_rms vs slug



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

13363.449+/-6.656  $\chi^2$ /NDF: 3366.4/4

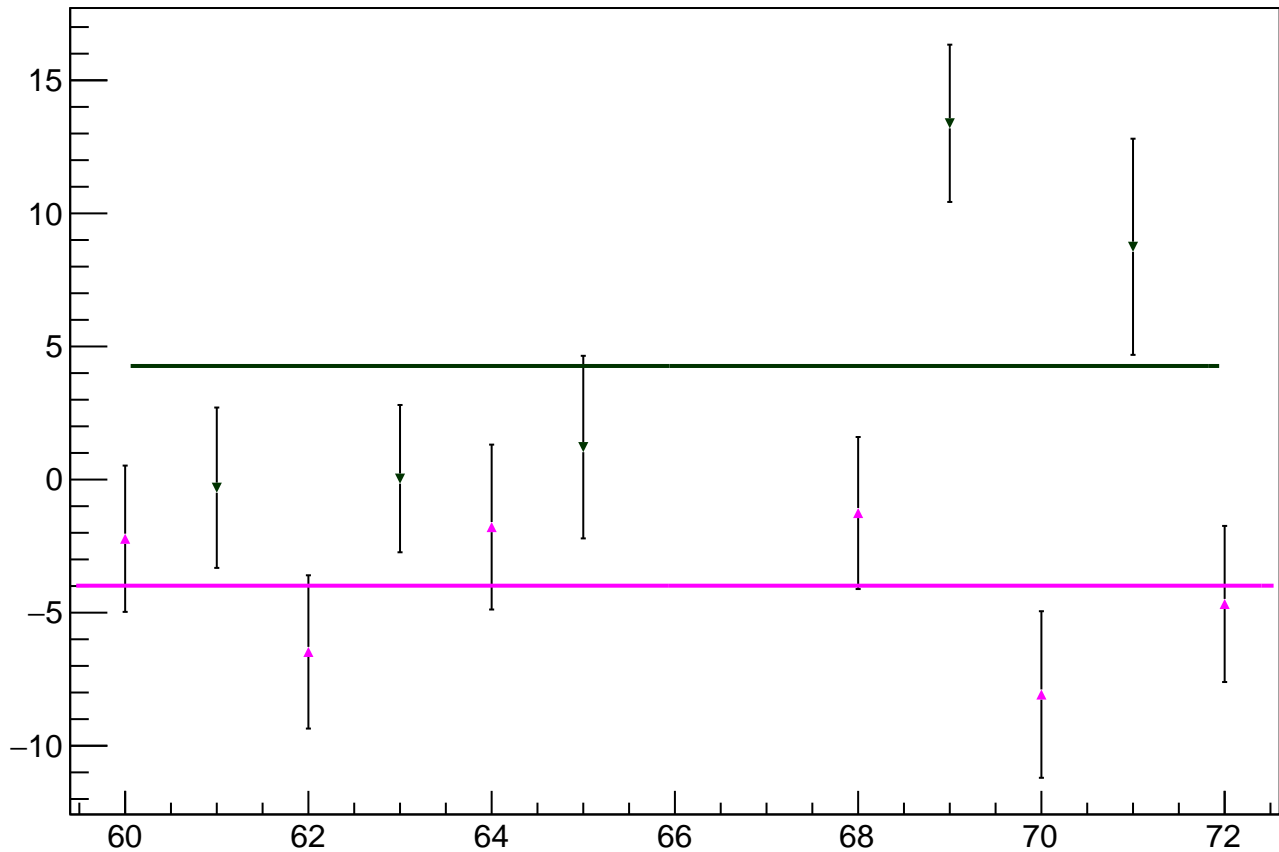
Left Out: 13363.449+/-6.656  $\chi^2$ /NDF:3366.4/4

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

13665.825+/-5.770  $\chi^2$ /NDF: 4081.3/5

Left In: 13665.825+/-5.770  $\chi^2$ /NDF:4081.3/5

# diff\_bpm0l07Y\_mean vs slug



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

Left Out: 4.268+/-1.413  $\chi^2$ /NDF:16.2/4

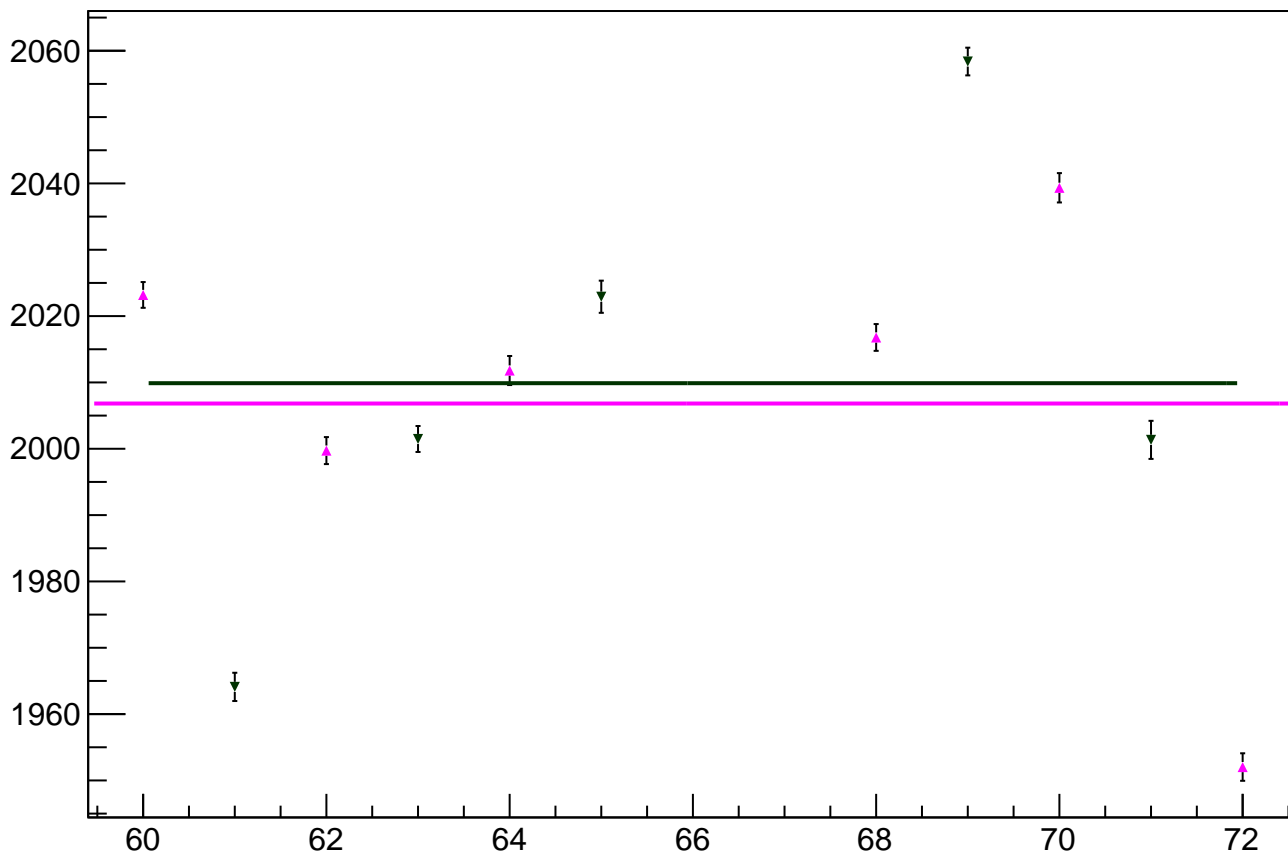
4.268+/-1.413  $\chi^2$ /NDF: 16.2/4

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

-3.986+/-1.197  $\chi^2$ /NDF: 4.3/5

Left In: -3.986+/-1.197  $\chi^2$ /NDF:4.3/5

# diff\_bpm0l07Y\_rms vs slug



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

Left Out: 2009.885+/-0.999  $\chi^2$ /NDF:1057.0/4

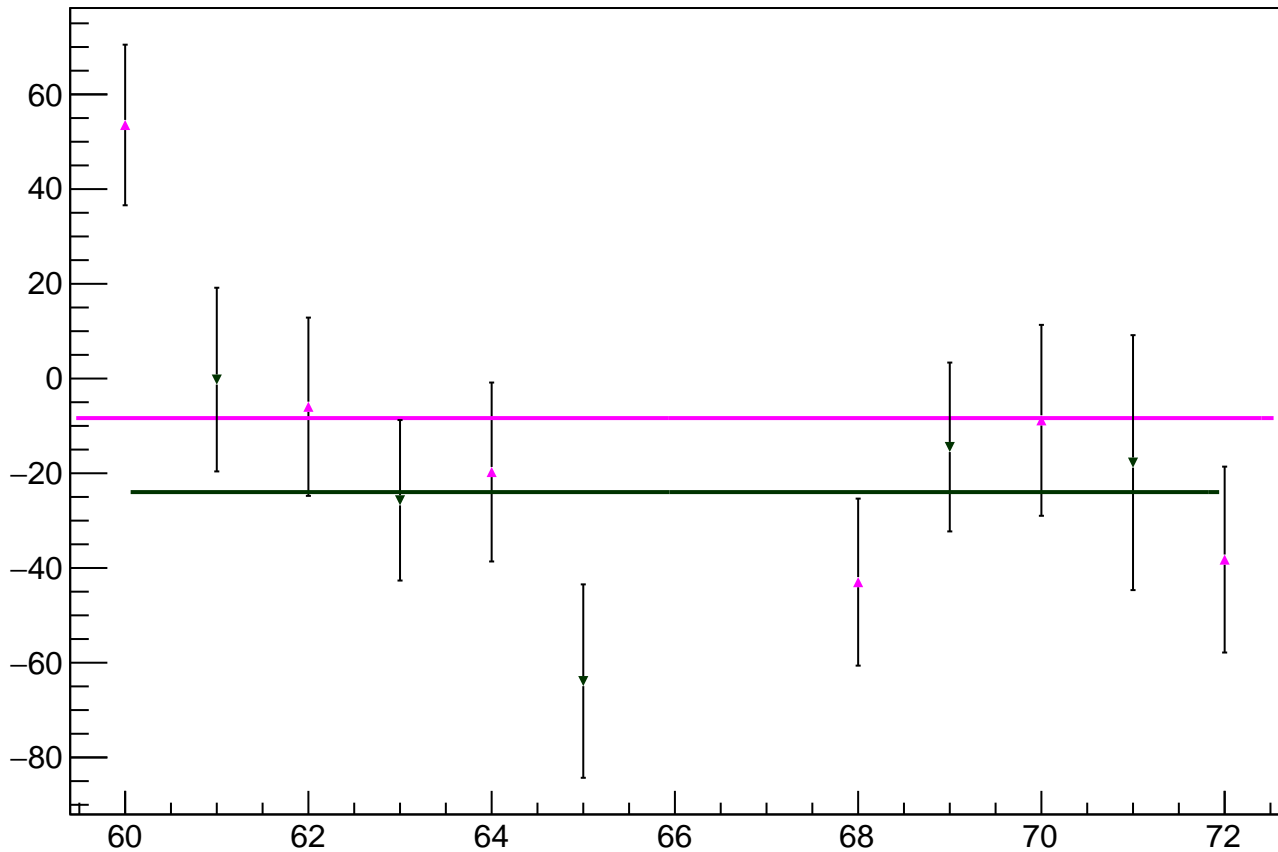
2009.885+/-0.999  $\chi^2$ /NDF: 1057.0/4

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

2006.820+/-0.846  $\chi^2$ /NDF: 1027.3/5

Left In: 2006.820+/-0.846  $\chi^2$ /NDF:1027.3/5

# diff\_bpm0l08X\_mean vs slug



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

Left Out: -23.975+/-8.748  $\chi^2/\text{NDF}$ : 5.7/4

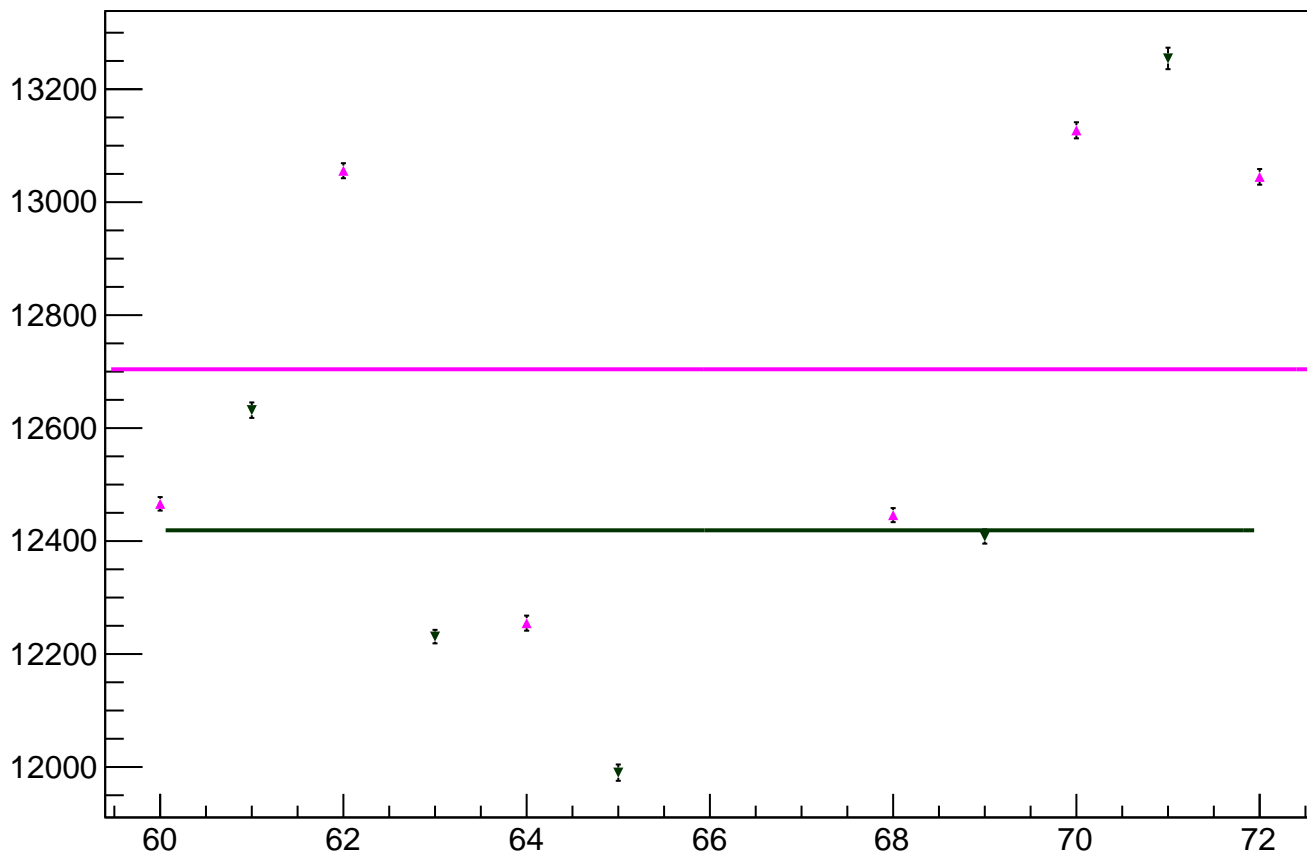
-23.975+/-8.748  $\chi^2/\text{NDF}$ : 5.7/4

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

-8.350+/-7.586  $\chi^2/\text{NDF}$ : 19.9/5

Left In: -8.350+/-7.586  $\chi^2/\text{NDF}$ : 19.9/5

# diff\_bpm0l08X\_rms vs slug



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

Left Out: 12419.058+/-6.186  $\chi^2$ /NDF:3297.9/4

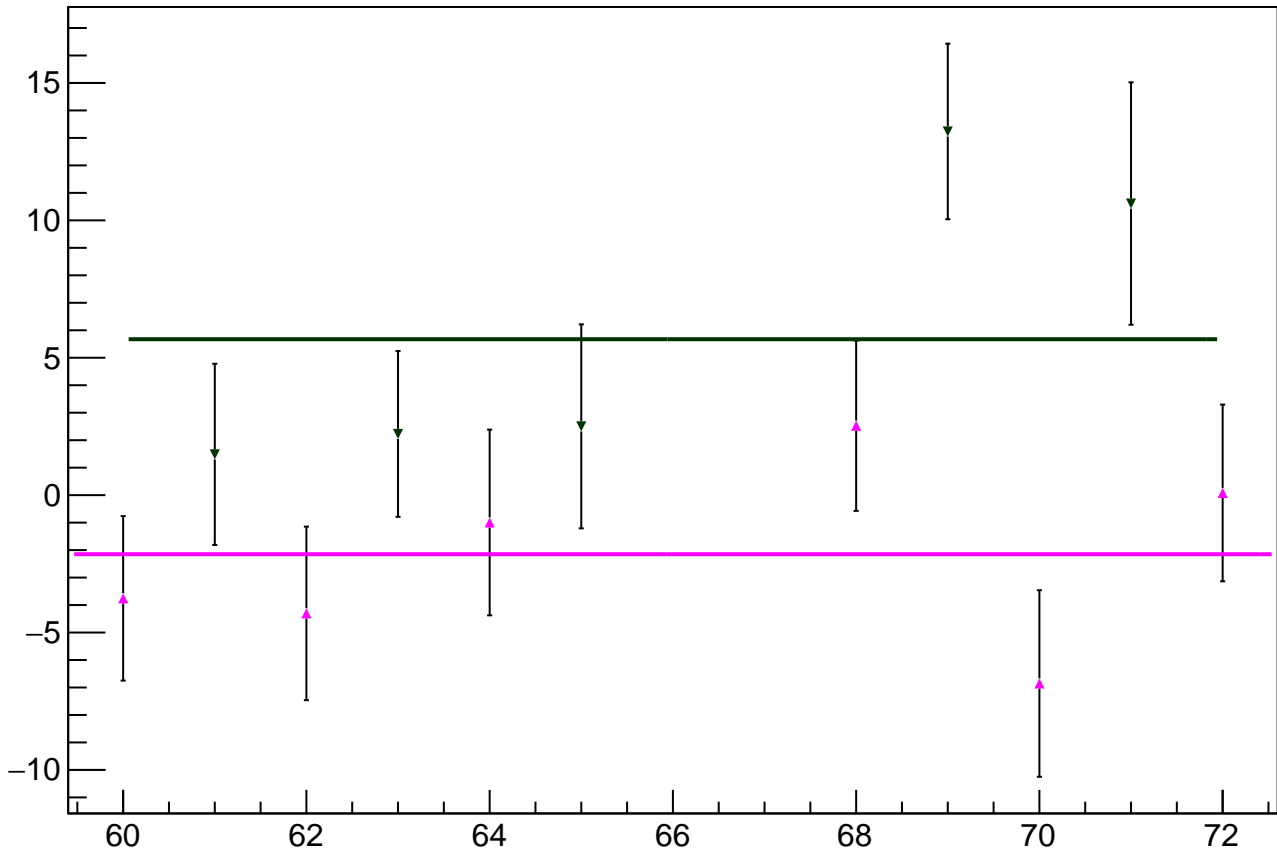
12419.058+/-6.186  $\chi^2$ /NDF: 3297.9/4

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

12704.135+/-5.364  $\chi^2$ /NDF: 4137.7/5

Left In: 12704.135+/-5.364  $\chi^2$ /NDF:4137.7/5

# diff\_bpm0l08Y\_mean vs slug



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

Left Out: 5.675+/-1.536  $\chi^2/\text{NDF}$ : 10.5/4

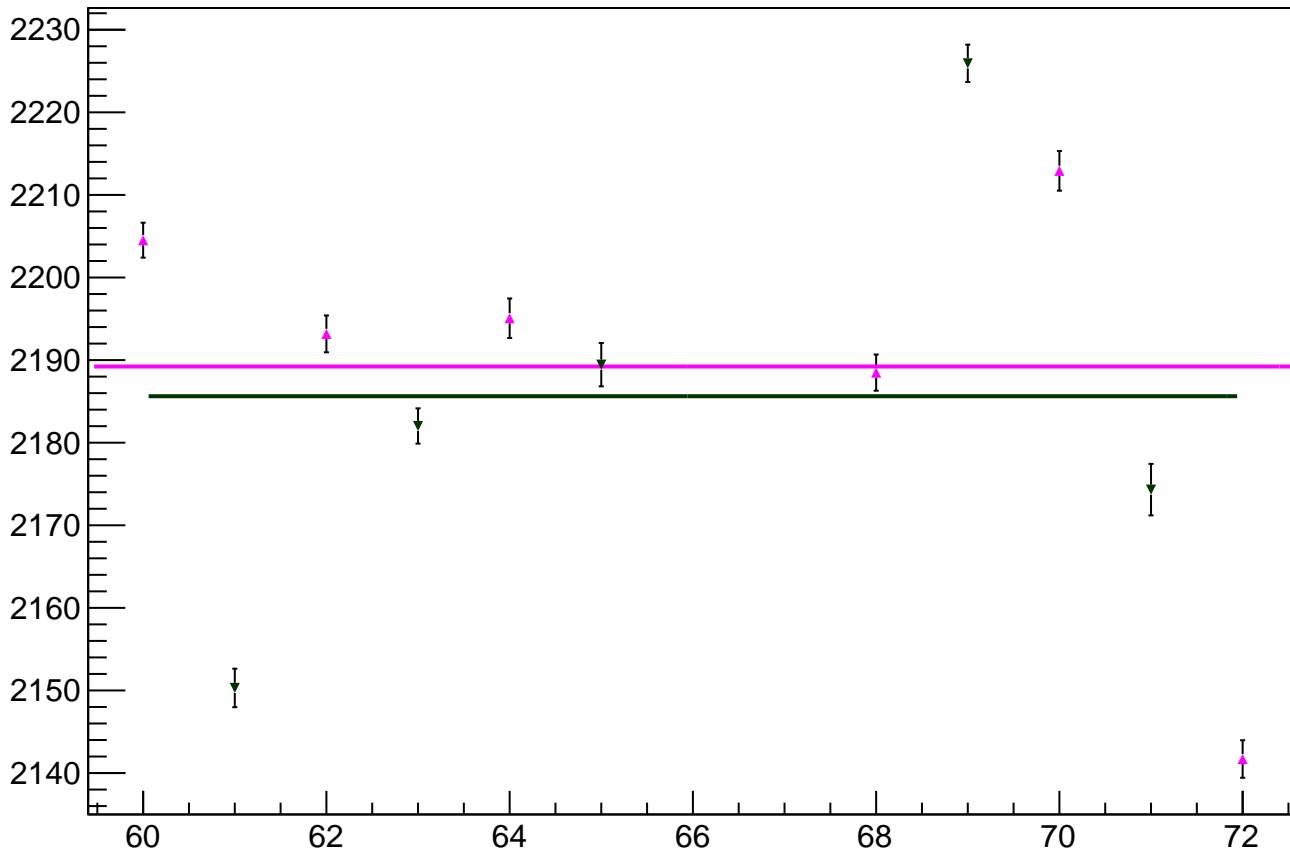
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -2.150+/-1.305  $\chi^2/\text{NDF}$ : 5.5/5

5.675+/-1.536  $\chi^2/\text{NDF}$ : 10.5/4

-2.150+/-1.305  $\chi^2/\text{NDF}$ : 5.5/5

# diff\_bpm0l08Y\_rms vs slug



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

Left Out: 2185.627+/-1.086  $\chi^2$ /NDF:566.0/4

2185.627+/-1.086  $\chi^2$ /NDF: 566.0/4

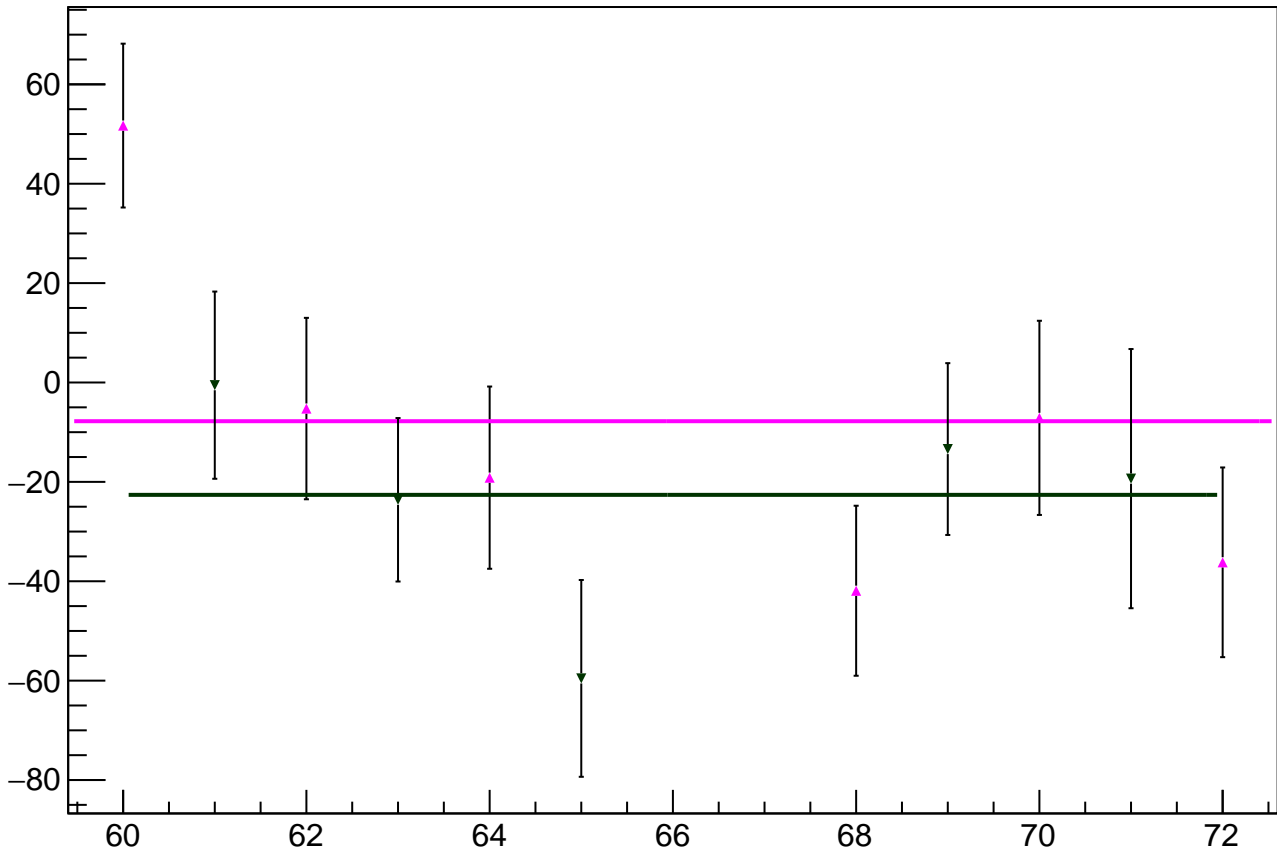
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

2189.223+/-0.923  $\chi^2$ /NDF: 595.6/5

Left In: 2189.223+/-0.923  $\chi^2$ /NDF:595.6/5



# diff\_bpm0l09X\_mean vs slug



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

Left Out: -22.613+/-8.488  $\chi^2$ /NDF:5.2/4

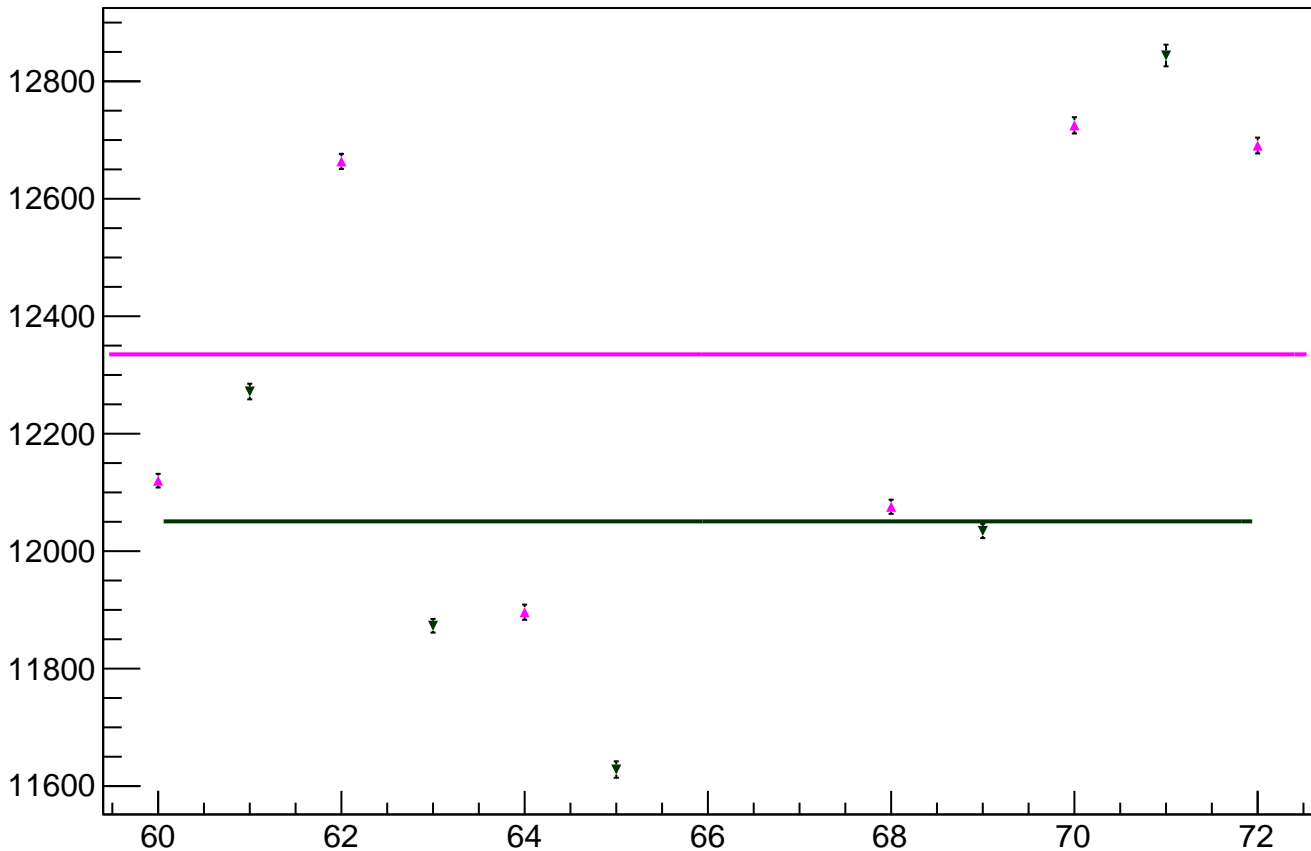
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -7.791+/-7.365  $\chi^2$ /NDF:19.6/5

-22.613+/-8.488  $\chi^2$ /NDF: 5.2/4

-7.791+/-7.365  $\chi^2$ /NDF: 19.6/5

# diff\_bpm0l09X\_rms vs slug



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

Left Out: 12050.716+/-6.002  $\chi^2/\text{NDF}$ : 3271.7/4

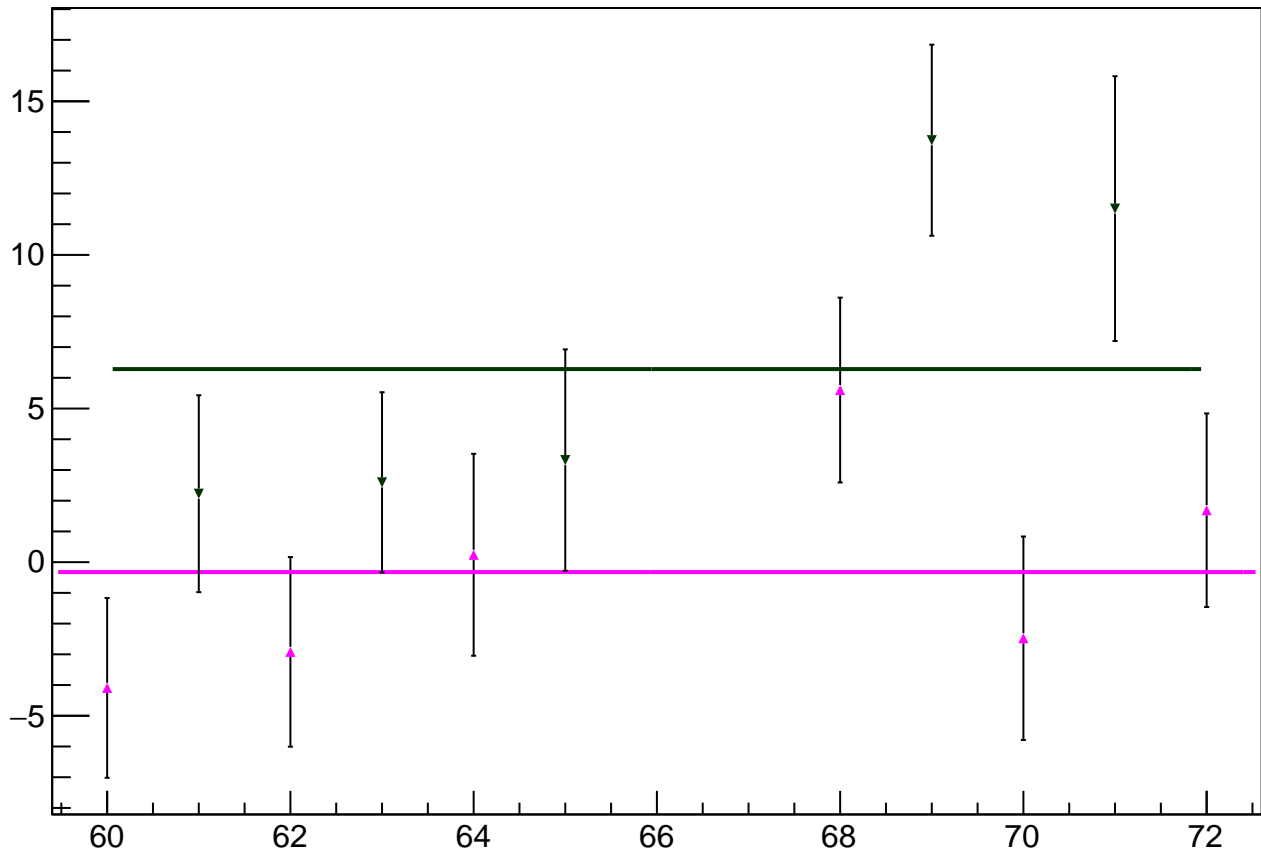
12050.716+/-6.002  $\chi^2/\text{NDF}$ : 3271.7/4

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

12335.076+/-5.208  $\chi^2/\text{NDF}$ : 4085.5/5

Left In: 12335.076+/-5.208  $\chi^2/\text{NDF}$ : 4085.5/5

# diff\_bpm0l09Y\_mean vs slug



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

Left Out: 6.284+/-1.494  $\chi^2/\text{NDF}$ : 11.1/4

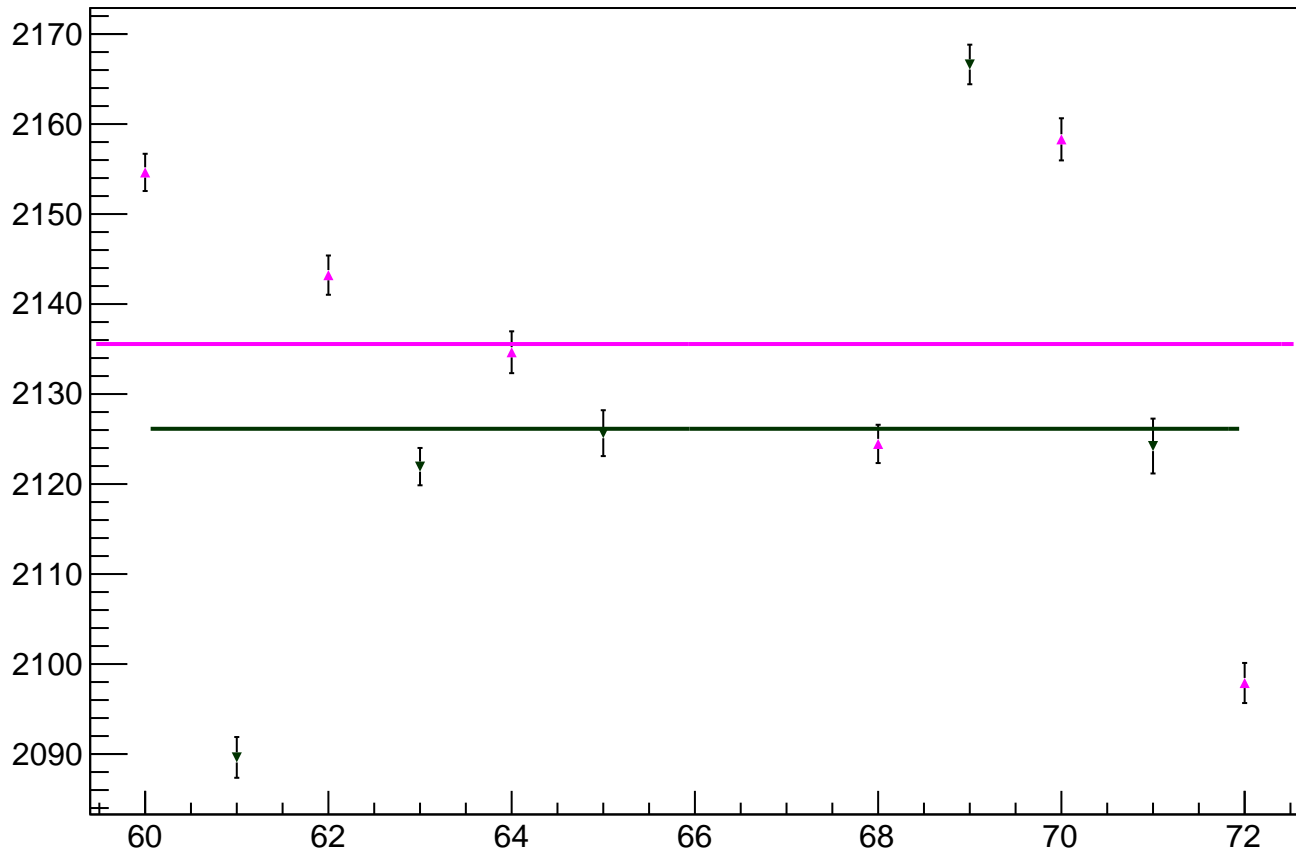
6.284+/-1.494  $\chi^2/\text{NDF}$ : 11.1/4

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

-0.323+/-1.273  $\chi^2/\text{NDF}$ : 7.1/5

Left In: -0.323+/-1.273  $\chi^2/\text{NDF}$ : 7.1/5

# diff\_bpm0l09Y\_rms vs slug



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

Left Out: 2126.140+/-1.057  $\chi^2$ /NDF:603.2/4

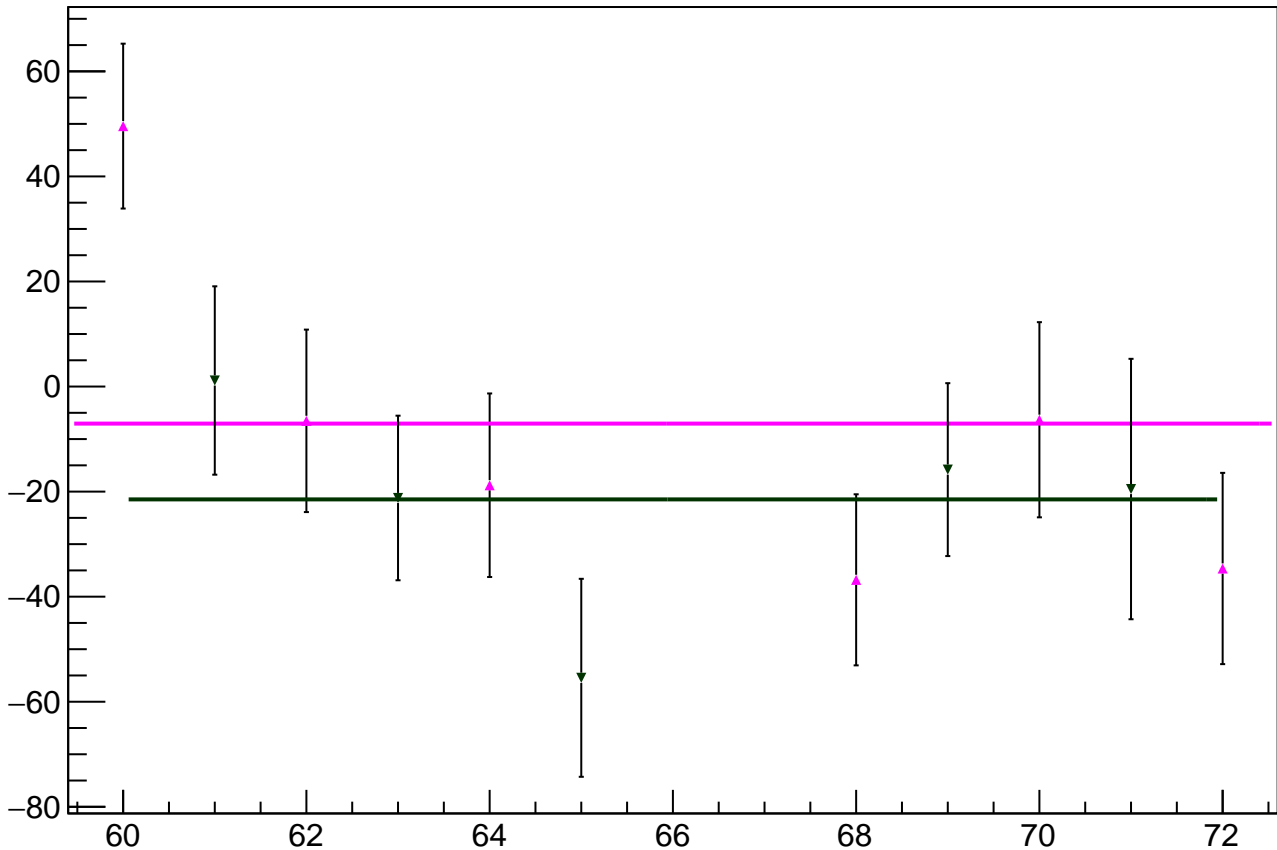
2126.140+/-1.057  $\chi^2$ /NDF: 603.2/4

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

2135.557+/-0.900  $\chi^2$ /NDF: 504.9/5

Left In: 2135.557+/-0.900  $\chi^2$ /NDF:504.9/5

# diff\_bpm0l10X\_mean vs slug



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

Left Out: -21.482+/-8.079  $\chi^2/\text{NDF}$ : 5.0/4

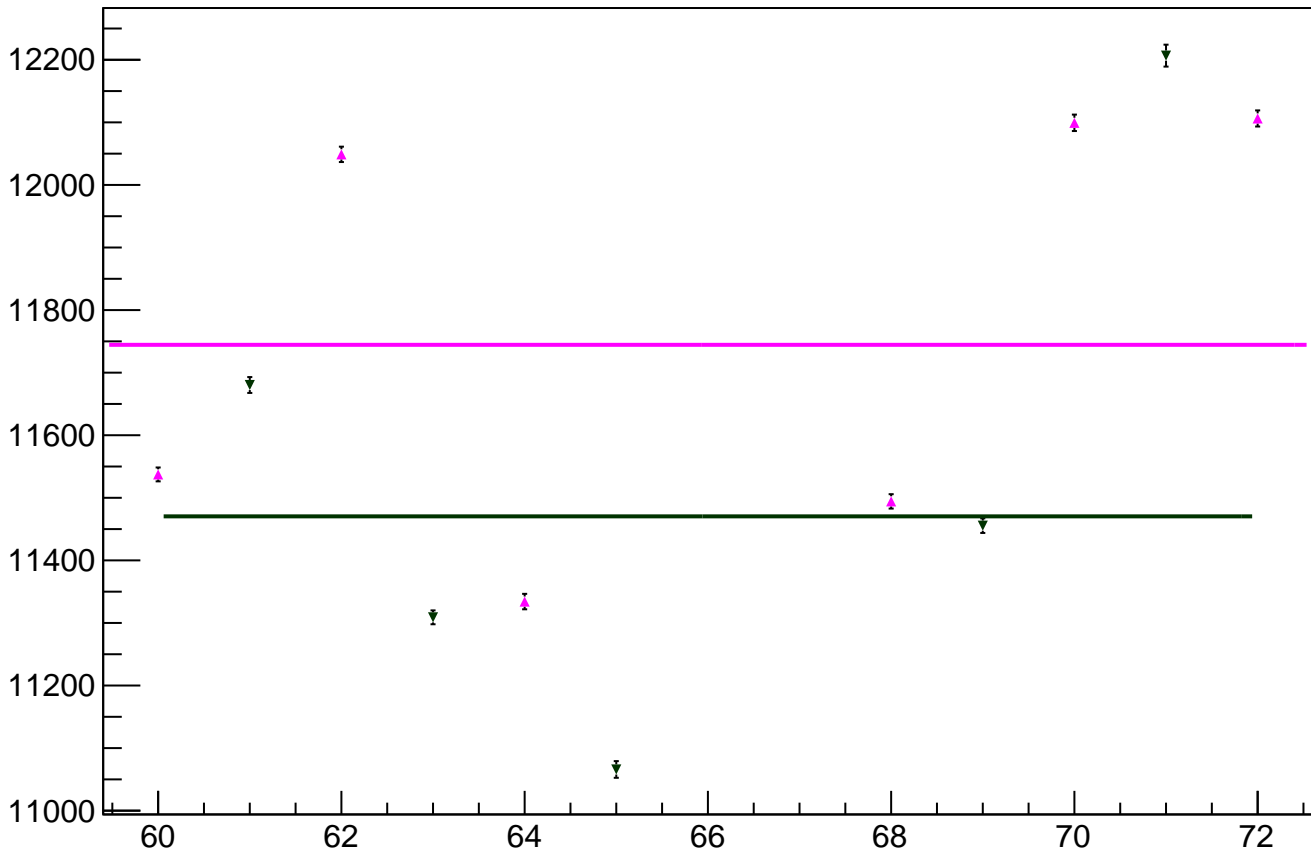
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -7.054+/-7.012  $\chi^2/\text{NDF}$ : 19.1/5

-21.482+/-8.079  $\chi^2/\text{NDF}$ : 5.0/4

-7.054+/-7.012  $\chi^2/\text{NDF}$ : 19.1/5

# diff\_bpm0l10X\_rms vs slug



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

11470.346+/-5.713  $\chi^2$ /NDF: 3174.3/4

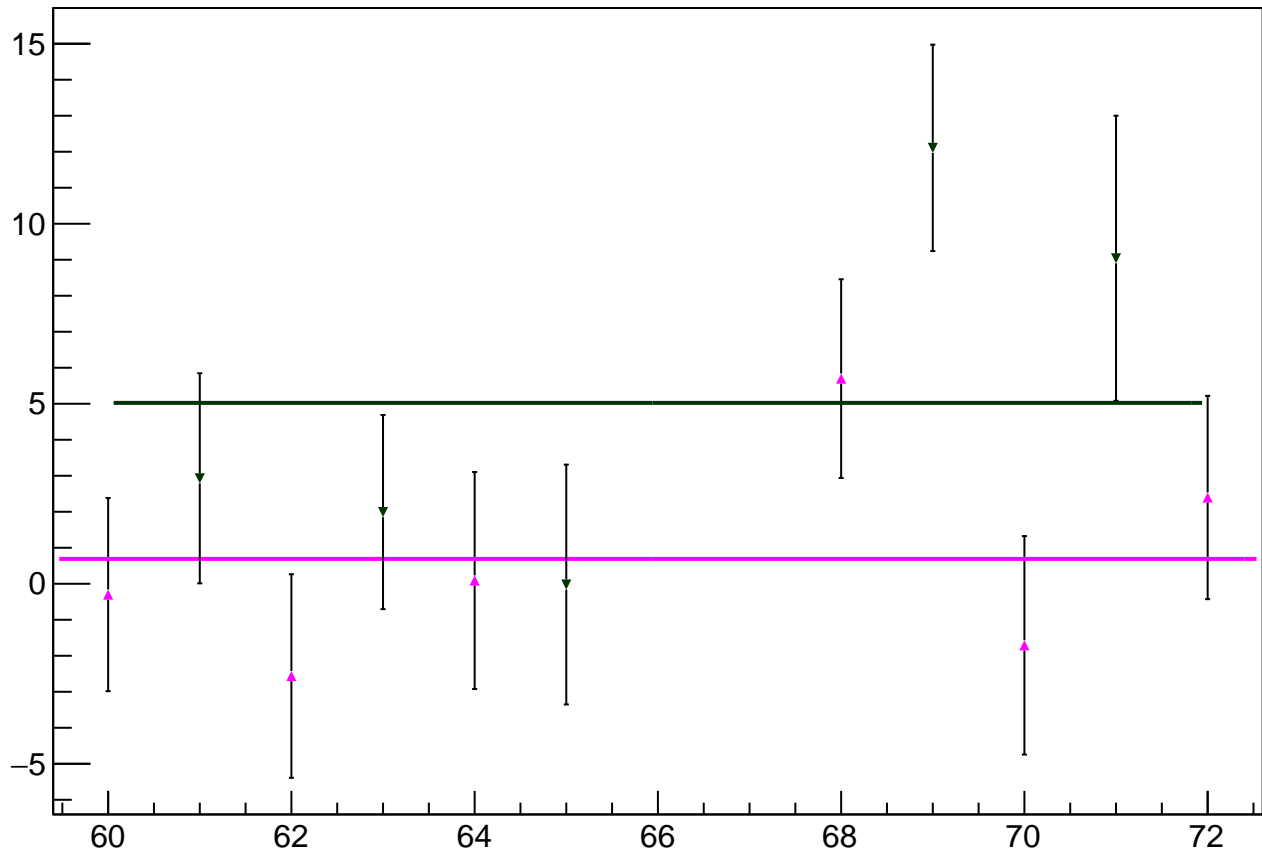
Left Out: 11470.346+/-5.713  $\chi^2$ /NDF:3174.3/4

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

11744.474+/-4.958  $\chi^2$ /NDF: 4057.4/5

Left In: 11744.474+/-4.958  $\chi^2$ /NDF:4057.4/5

# diff\_bpm0l10Y\_mean vs slug



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

Left Out: 5.025+/-1.373  $\chi^2/\text{NDF}$ : 11.2/4

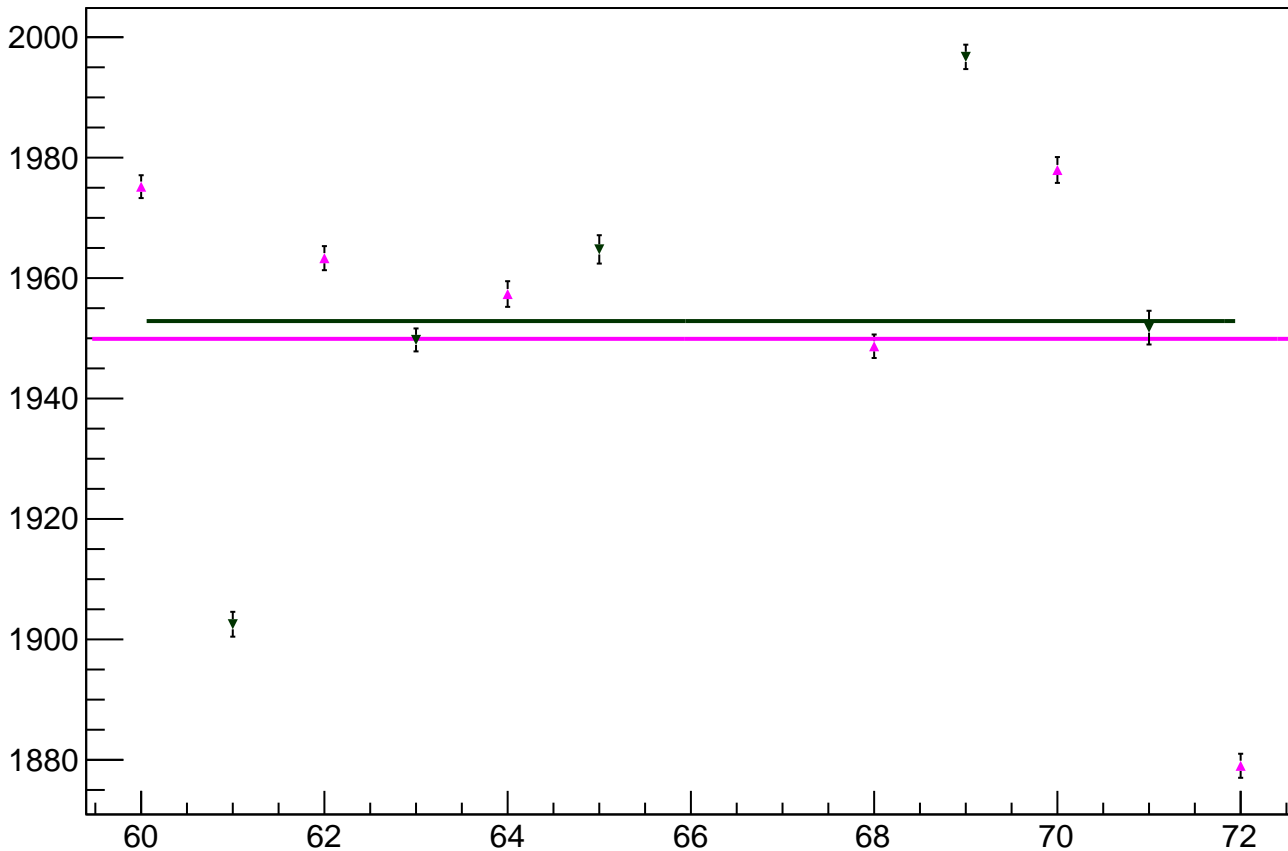
5.025+/-1.373  $\chi^2/\text{NDF}$ : 11.2/4

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

0.691+/-1.163  $\chi^2/\text{NDF}$ : 5.8/5

Left In: 0.691+/-1.163  $\chi^2/\text{NDF}$ : 5.8/5

# diff\_bpm0l10Y\_rms vs slug



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

Left Out: 1952.861+/-0.971  $\chi^2$ /NDF:1092.4/4

1952.861+/-0.971  $\chi^2$ /NDF: 1092.4/4

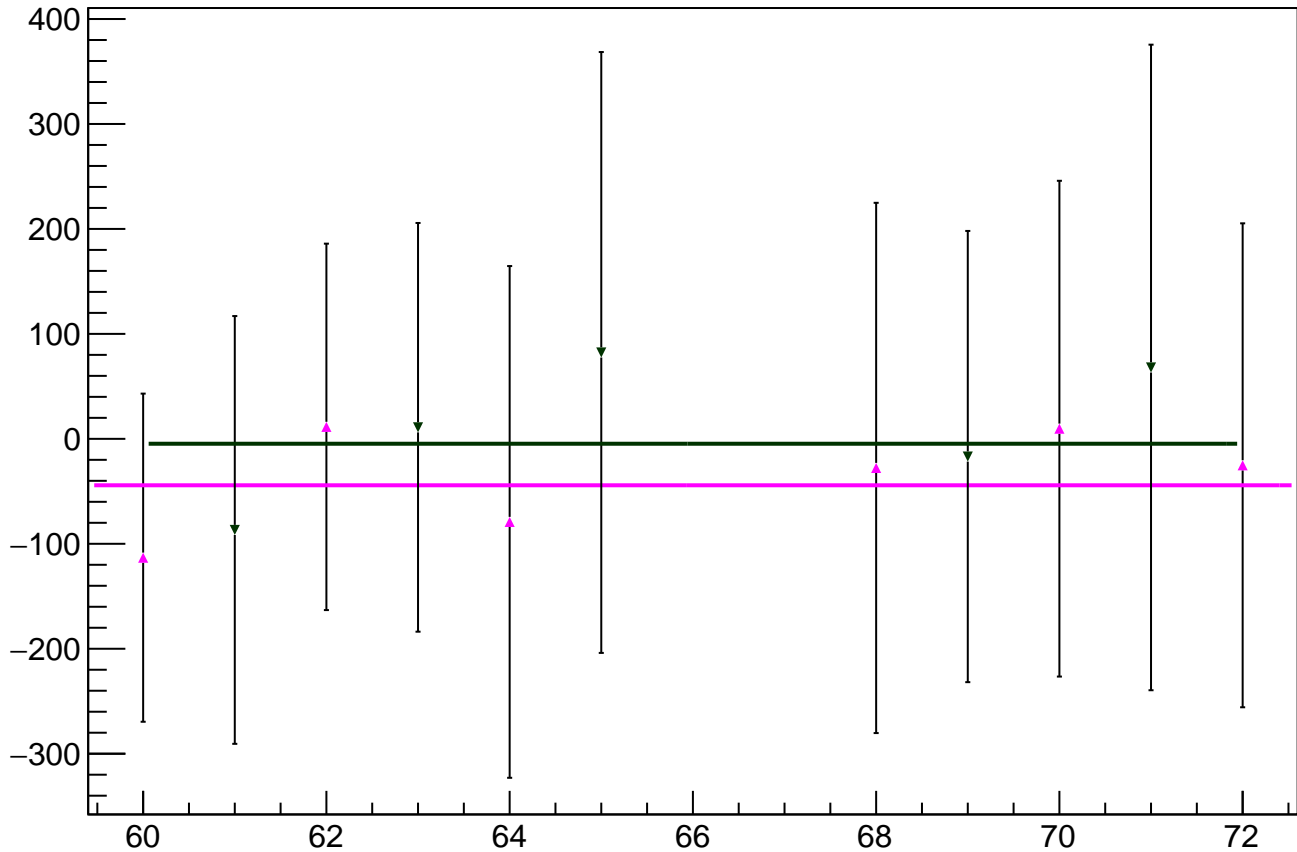
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

1949.909+/-0.822  $\chi^2$ /NDF: 1666.5/5

Left In: 1949.909+/-0.822  $\chi^2$ /NDF:1666.5/5



# 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

-4.666+/-102.664  $\chi^2/\text{NDF}$ : 0.3/4

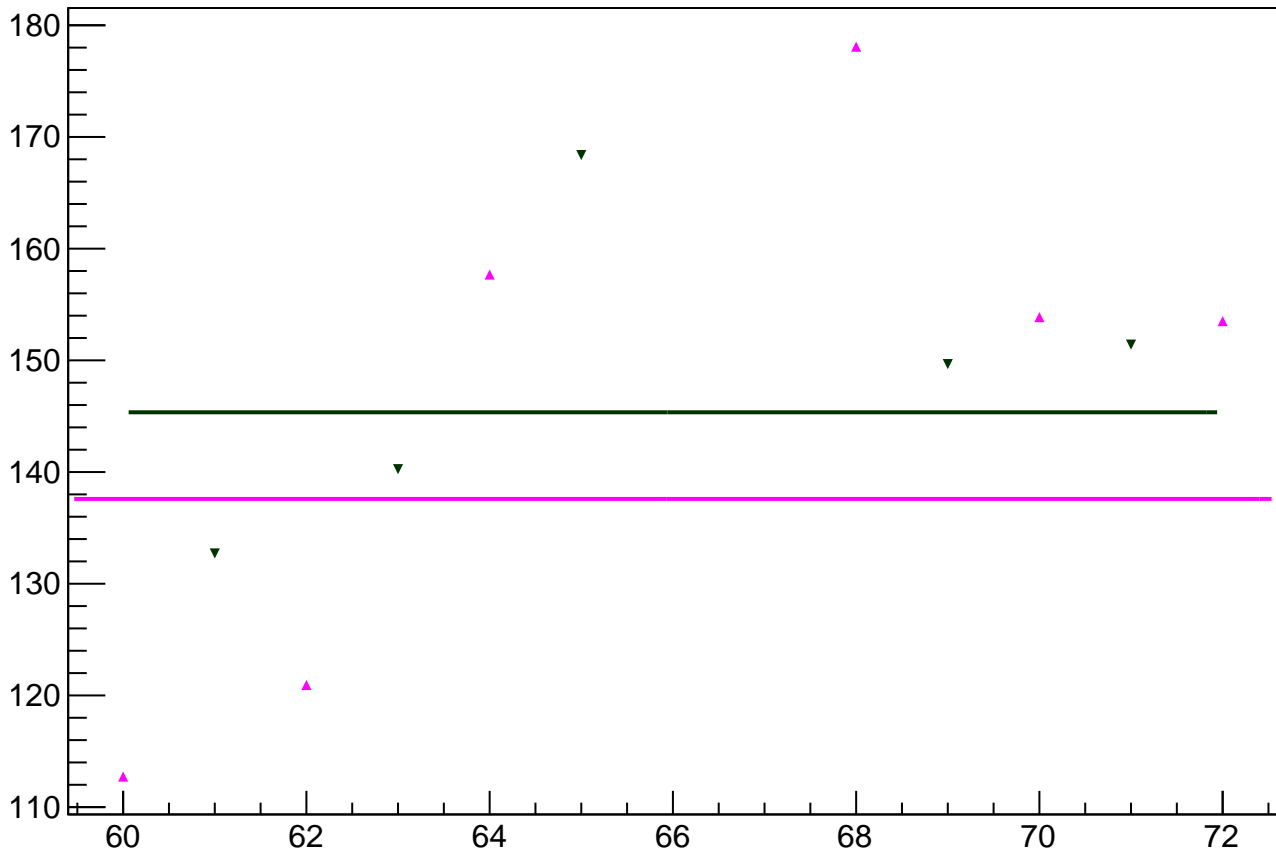
Left Out: -4.666+/-102.664  $\chi^2/\text{NDF}$ : 0.3/4

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

-44.251+/-83.630  $\chi^2/\text{NDF}$ : 0.4/5

Left In: -44.251+/-83.630  $\chi^2/\text{NDF}$ : 0.4/5

# 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: 145.349+/-0.073  $\chi^2$ /NDF:23586.1/4

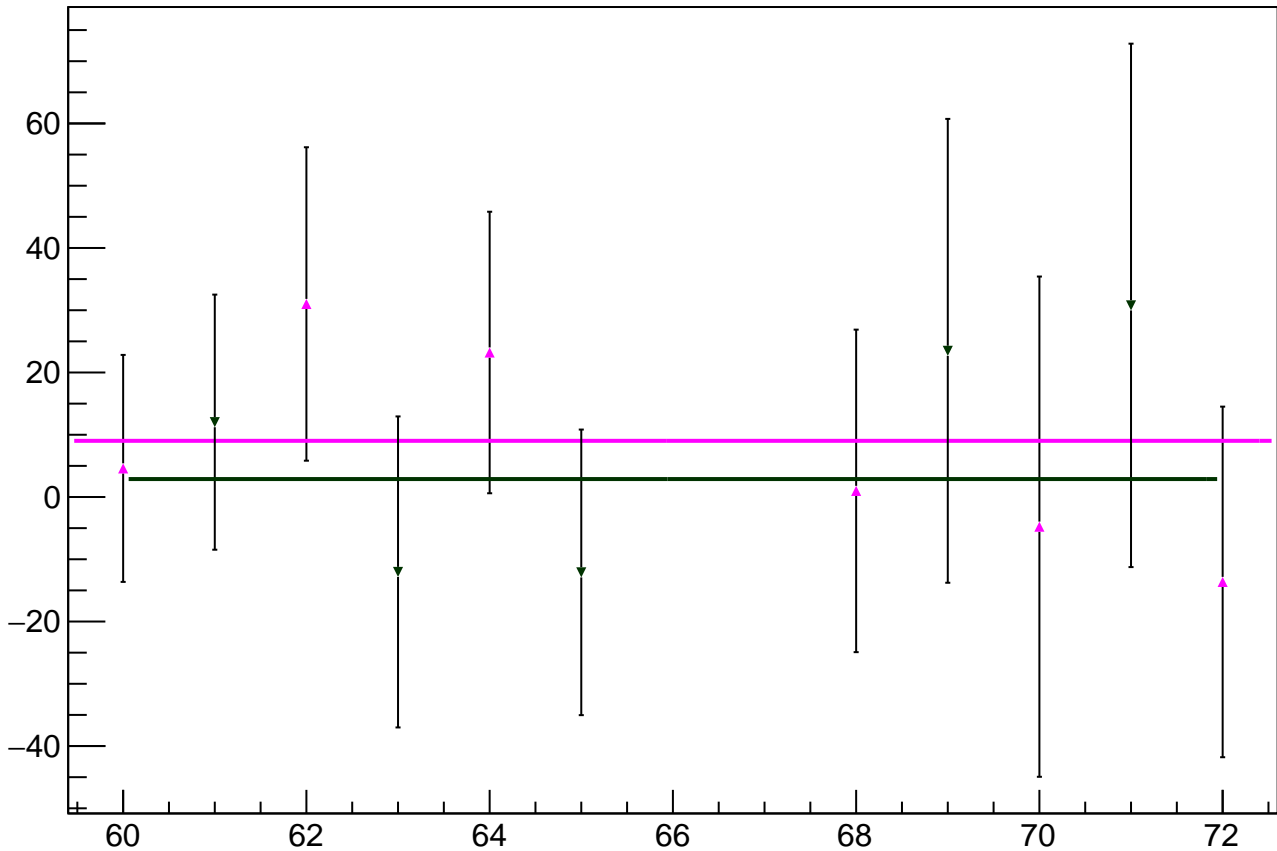
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 137.593+/-0.059  $\chi^2$ /NDF:152788.1/5

145.349+/-0.073  $\chi^2$ /NDF: 23586.1/4

137.593+/-0.059  $\chi^2$ /NDF: 152788.1/5

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: 2.884+/-11.807  $\chi^2$ /NDF:1.7/4

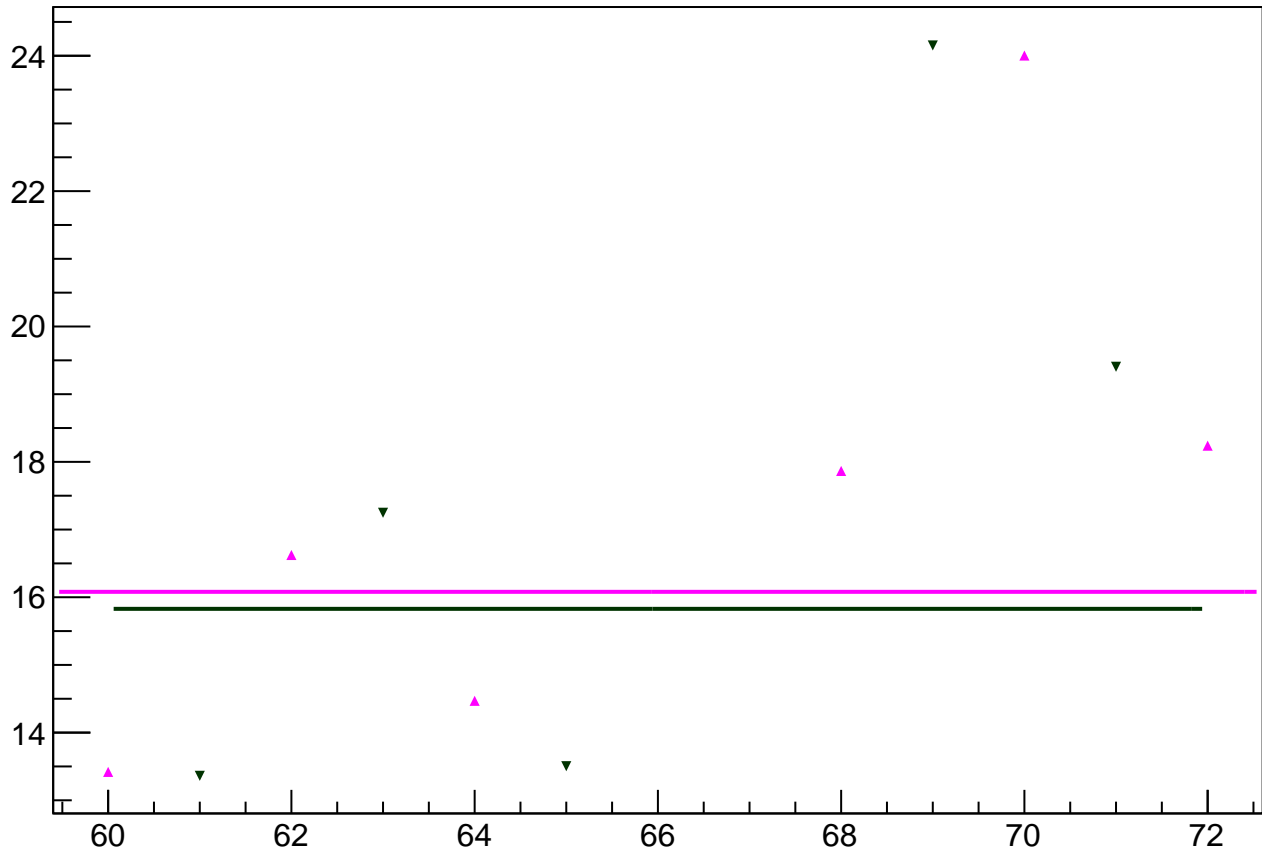
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 9.024+/-10.043  $\chi^2$ /NDF:2.1/5

2.884+/-11.807  $\chi^2$ /NDF: 1.7/4

9.024+/-10.043  $\chi^2$ /NDF: 2.1/5

# 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

Left Out: 15.829+/-0.008  $\chi^2/\text{NDF}$ : 170340.3/4

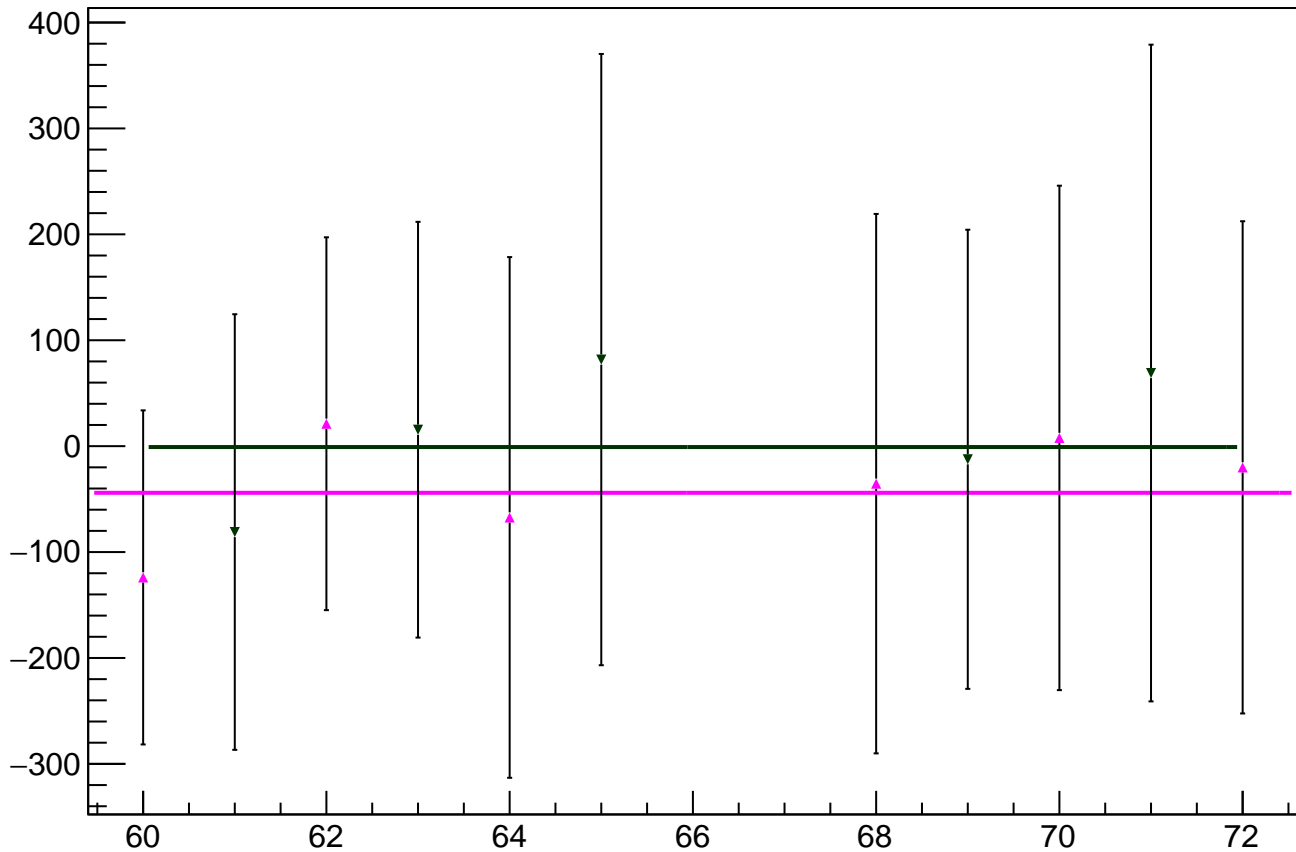
15.829+/-0.008  $\chi^2/\text{NDF}$ : 170340.3/4

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

16.080+/-0.007  $\chi^2/\text{NDF}$ : 152734.3/5

Left In: 16.080+/-0.007  $\chi^2/\text{NDF}$ : 152734.3/5

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: -0.843+/-103.531  $\chi^2/\text{NDF}$ : 0.3/4

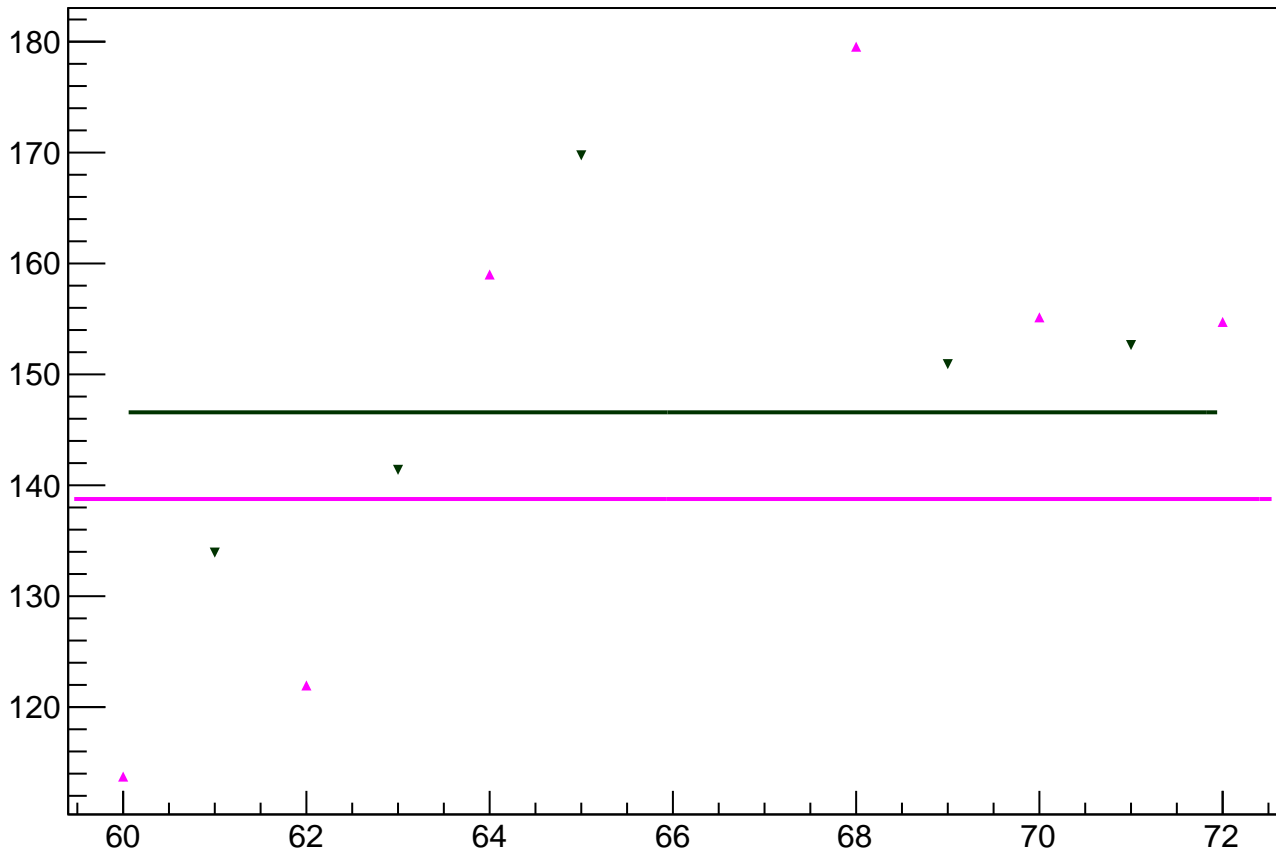
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -44.039+/-84.338  $\chi^2/\text{NDF}$ : 0.5/5

-0.843+/-103.531  $\chi^2/\text{NDF}$ : 0.3/4

-44.039+/-84.338  $\chi^2/\text{NDF}$ : 0.5/5

# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs slug



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

Left Out: 146.579+/-0.073  $\chi^2/\text{NDF}$ : 23425.3/4

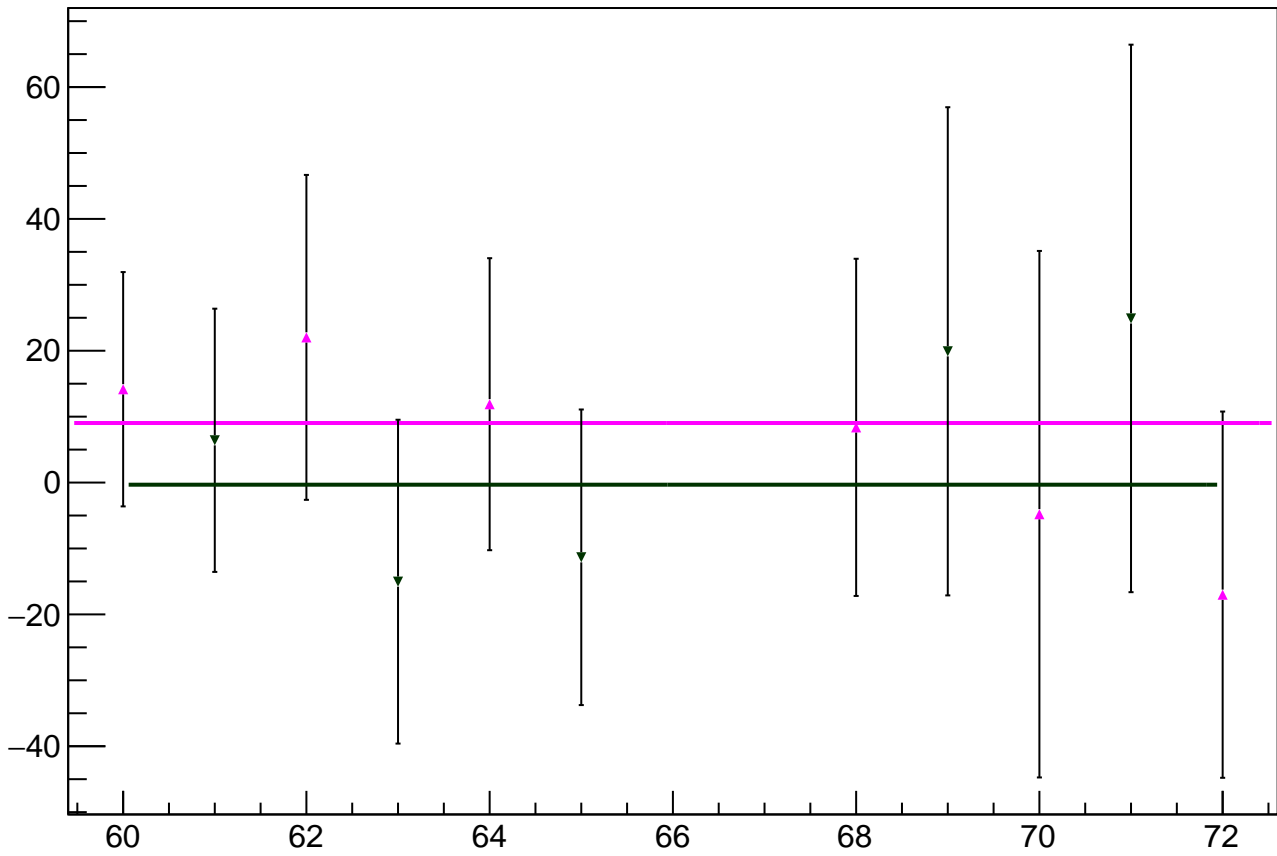
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.762+/-0.060  $\chi^2/\text{NDF}$ : 152358.8/5

146.579+/-0.073  $\chi^2/\text{NDF}$ : 23425.3/4

138.762+/-0.060  $\chi^2/\text{NDF}$ : 152358.8/5

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs slug



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

Left Out: -0.324+/-11.575  $\chi^2/\text{NDF}$ : 1.4/4

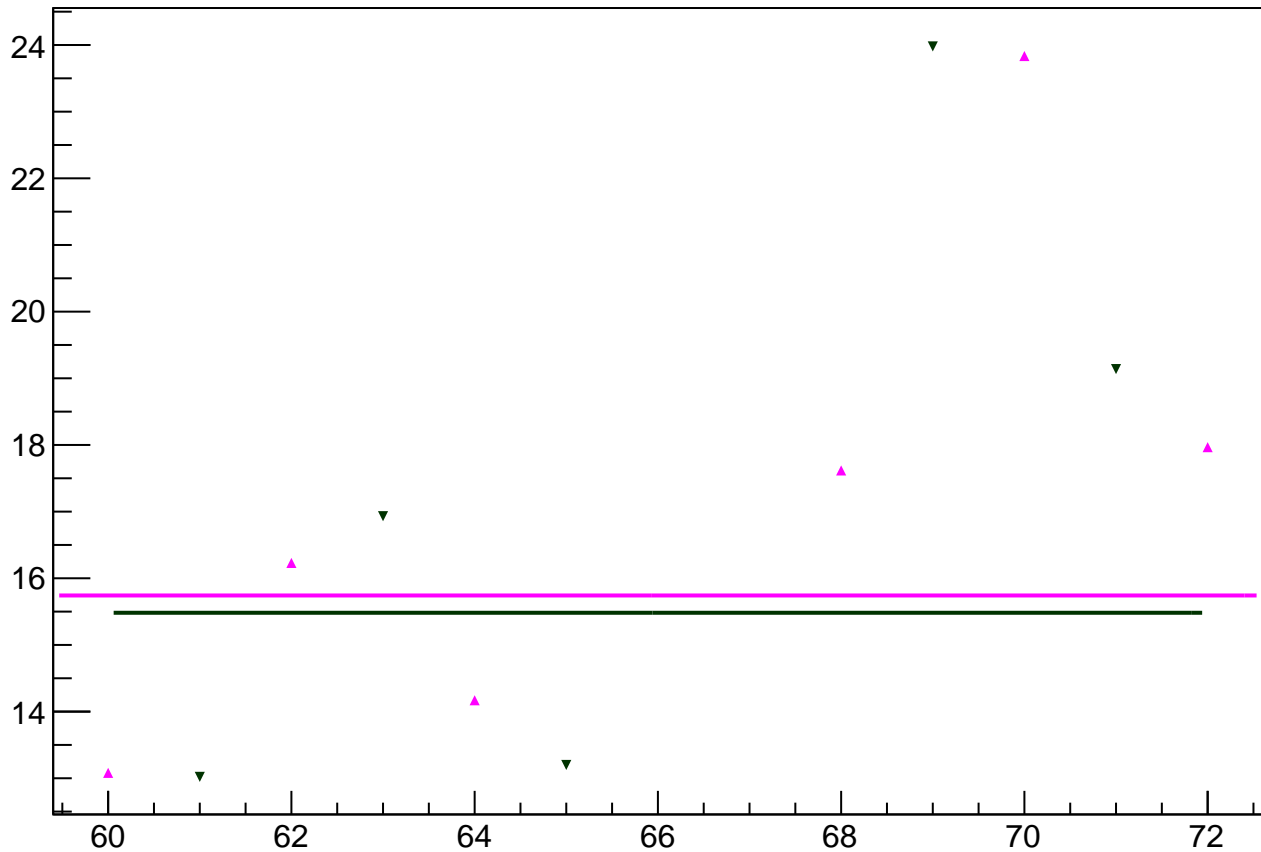
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 9.035+/-9.853  $\chi^2/\text{NDF}$ : 1.4/5

-0.324+/-11.575  $\chi^2/\text{NDF}$ : 1.4/4

9.035+/-9.853  $\chi^2/\text{NDF}$ : 1.4/5

# 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

Left Out: 15.483+/-0.008  $\chi^2/\text{NDF}$ : 178863.4/4

15.483+/-0.008  $\chi^2/\text{NDF}$ : 178863.4/4

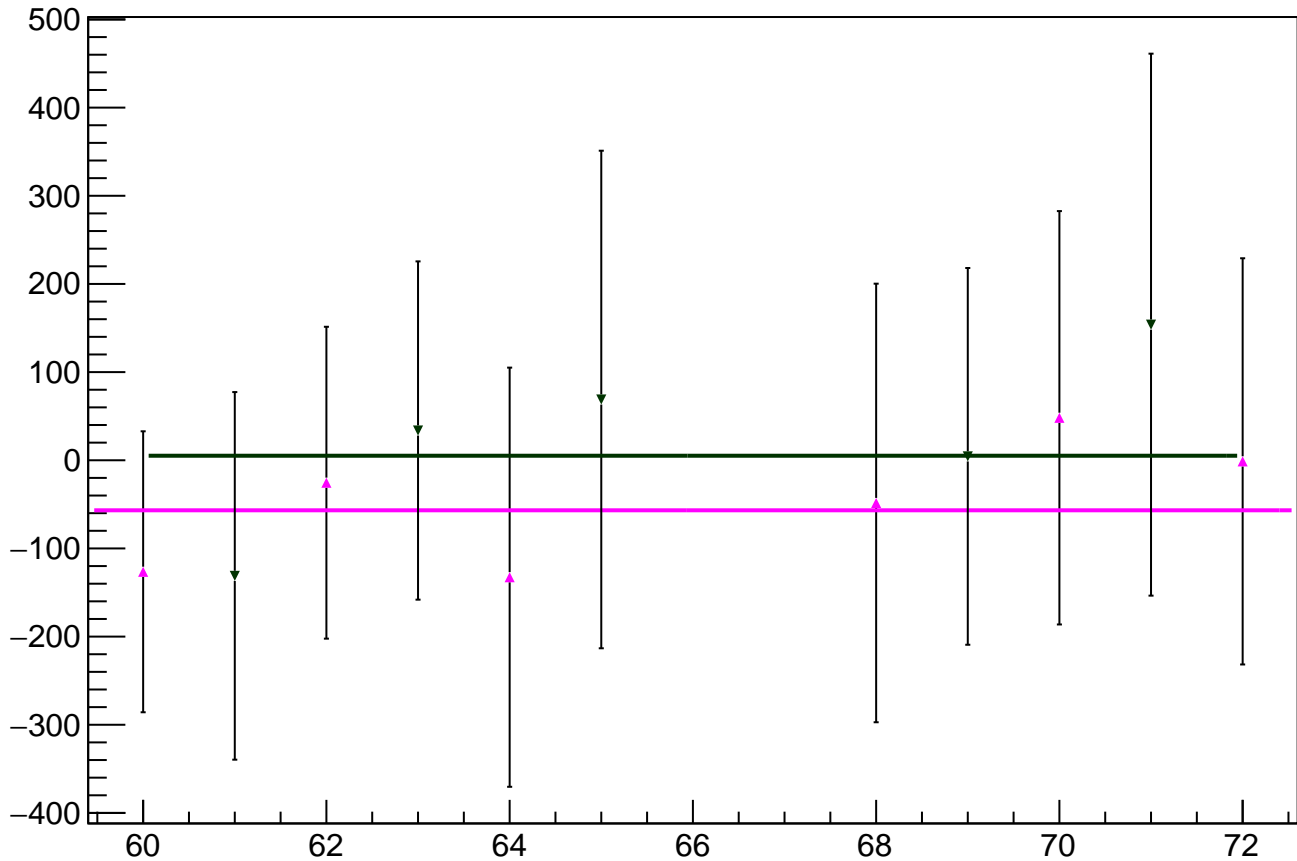
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

15.742+/-0.007  $\chi^2/\text{NDF}$ : 161377.3/5

Left In: 15.742+/-0.007  $\chi^2/\text{NDF}$ : 161377.3/5



# 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

5.150+/-102.476  $\chi^2/\text{NDF}$ : 0.7/4

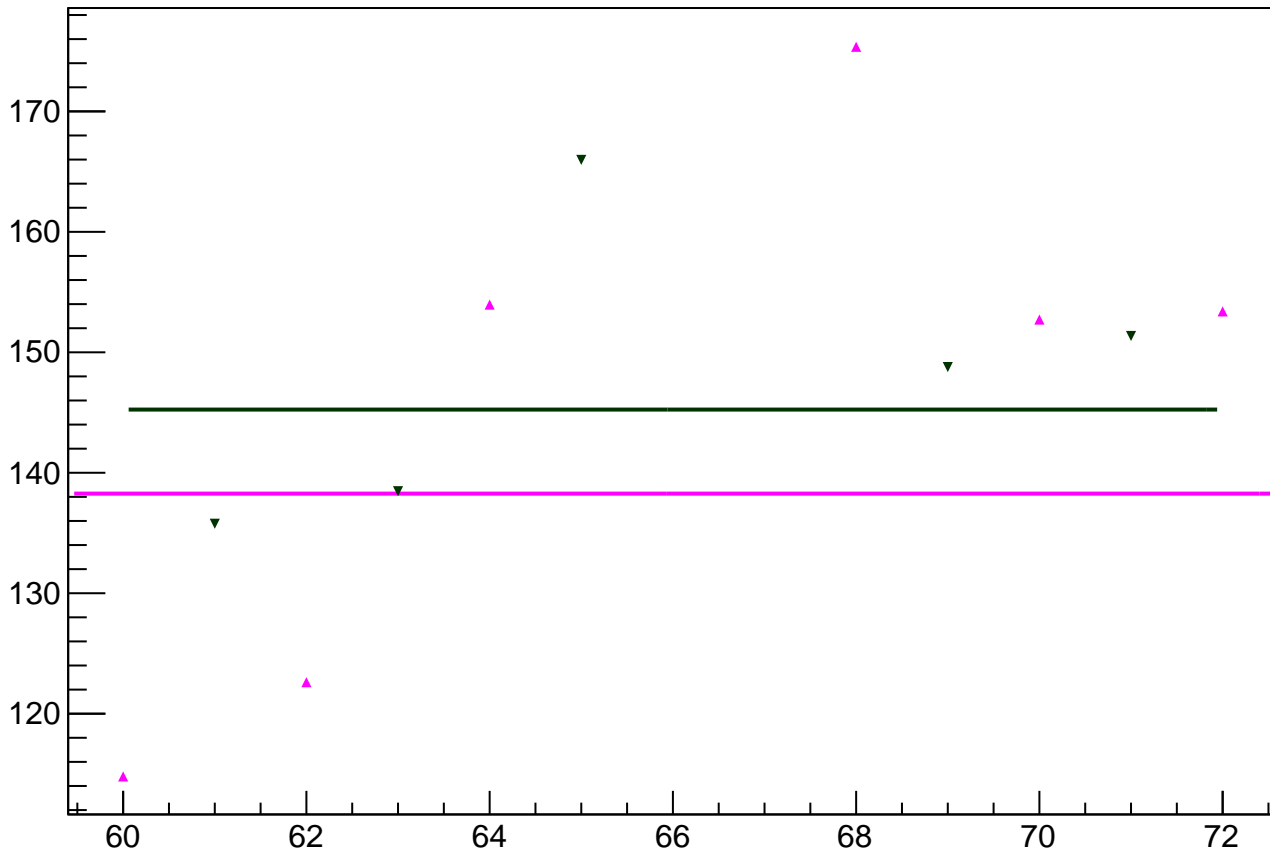
Left Out: 5.150+/-102.476  $\chi^2/\text{NDF}$ : 0.7/4

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

-56.743+/-83.845  $\chi^2/\text{NDF}$ : 0.6/5

Left In: -56.743+/-83.845  $\chi^2/\text{NDF}$ : 0.6/5

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 145.247+/-0.072  $\chi^2$ /NDF:18756.5/4

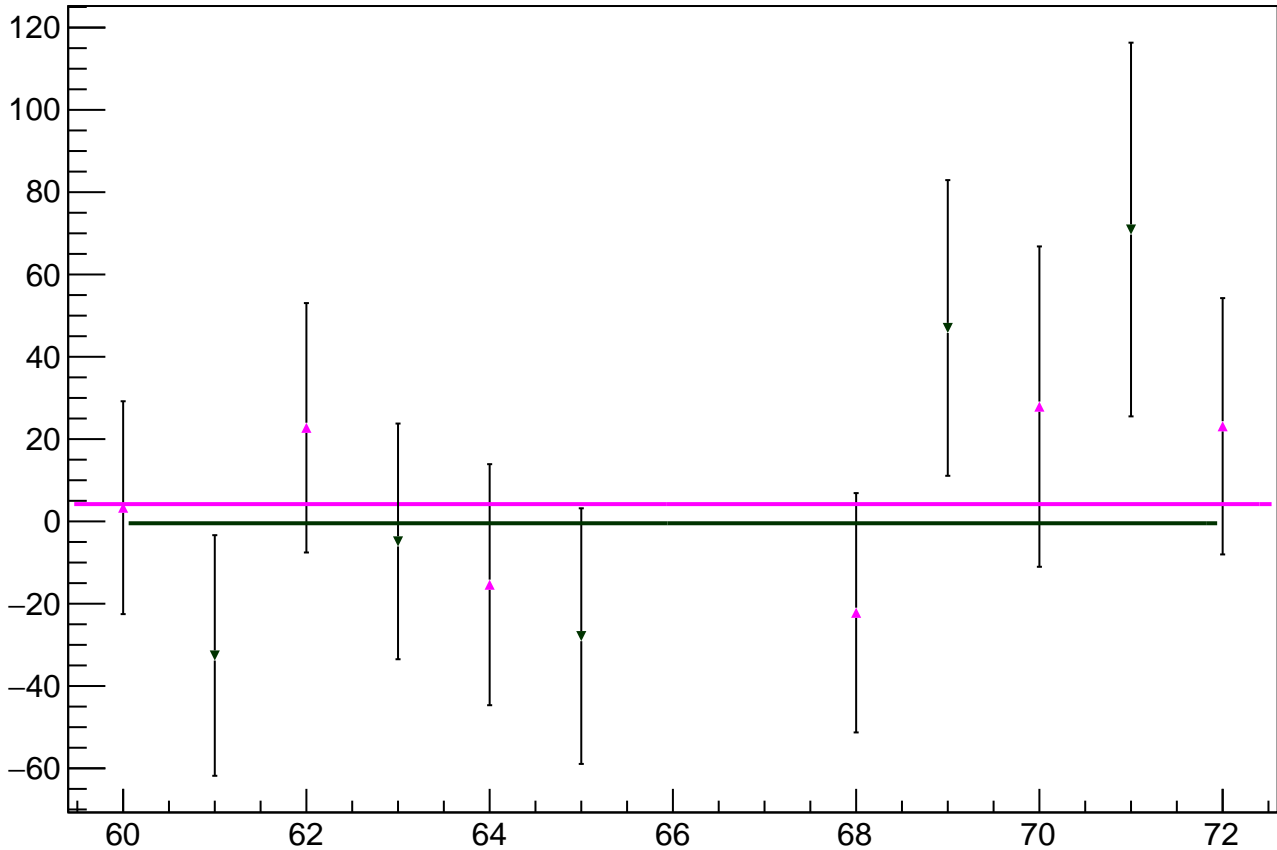
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 138.270+/-0.059  $\chi^2$ /NDF:128503.5/5

145.247+/-0.072  $\chi^2$ /NDF: 18756.5/4

138.270+/-0.059  $\chi^2$ /NDF: 128503.5/5

# 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: -0.452+/-14.609  $\chi^2/\text{NDF}$ : 6.2/4

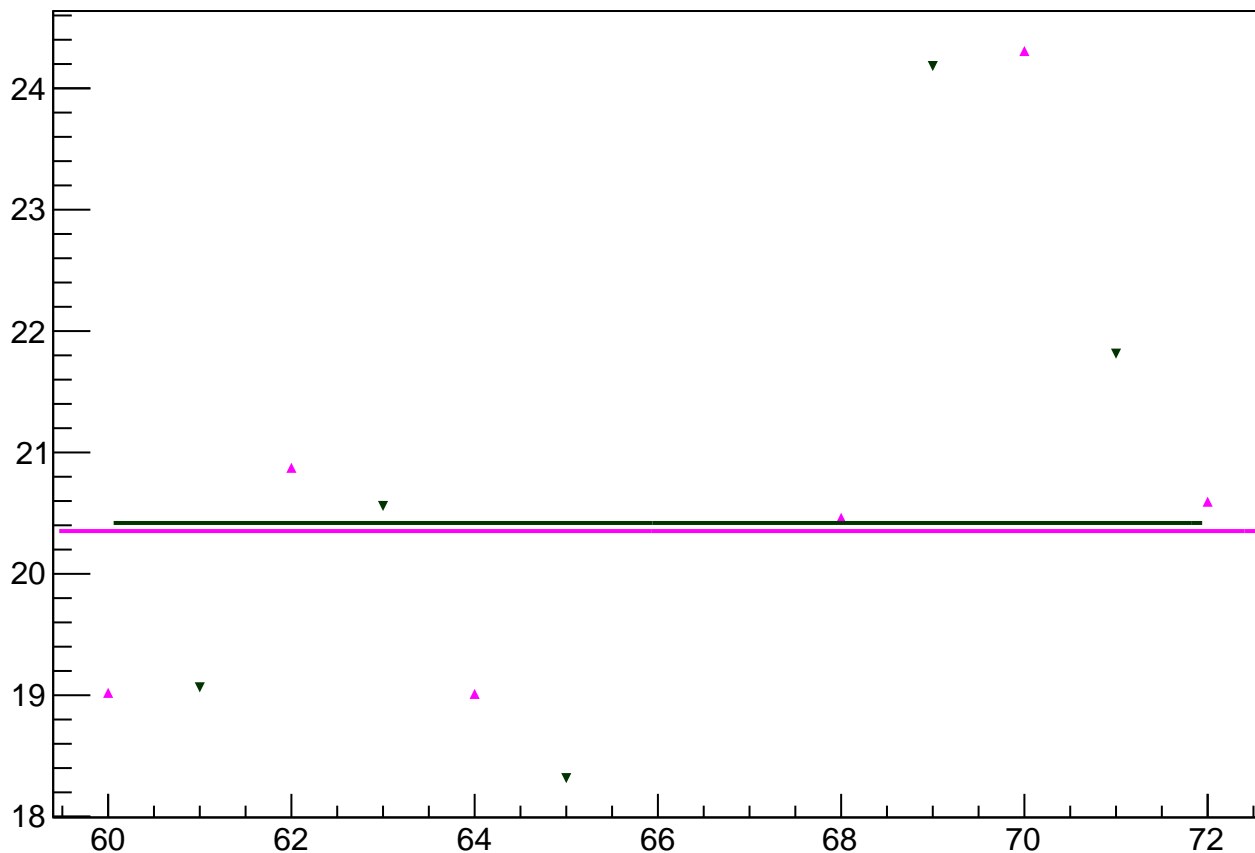
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 4.201+/-12.287  $\chi^2/\text{NDF}$ : 2.4/5

-0.452+/-14.609  $\chi^2/\text{NDF}$ : 6.2/4

4.201+/-12.287  $\chi^2/\text{NDF}$ : 2.4/5

# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

Left Out: 20.419+/-0.010  $\chi^2/\text{NDF}$ :37338.7/4

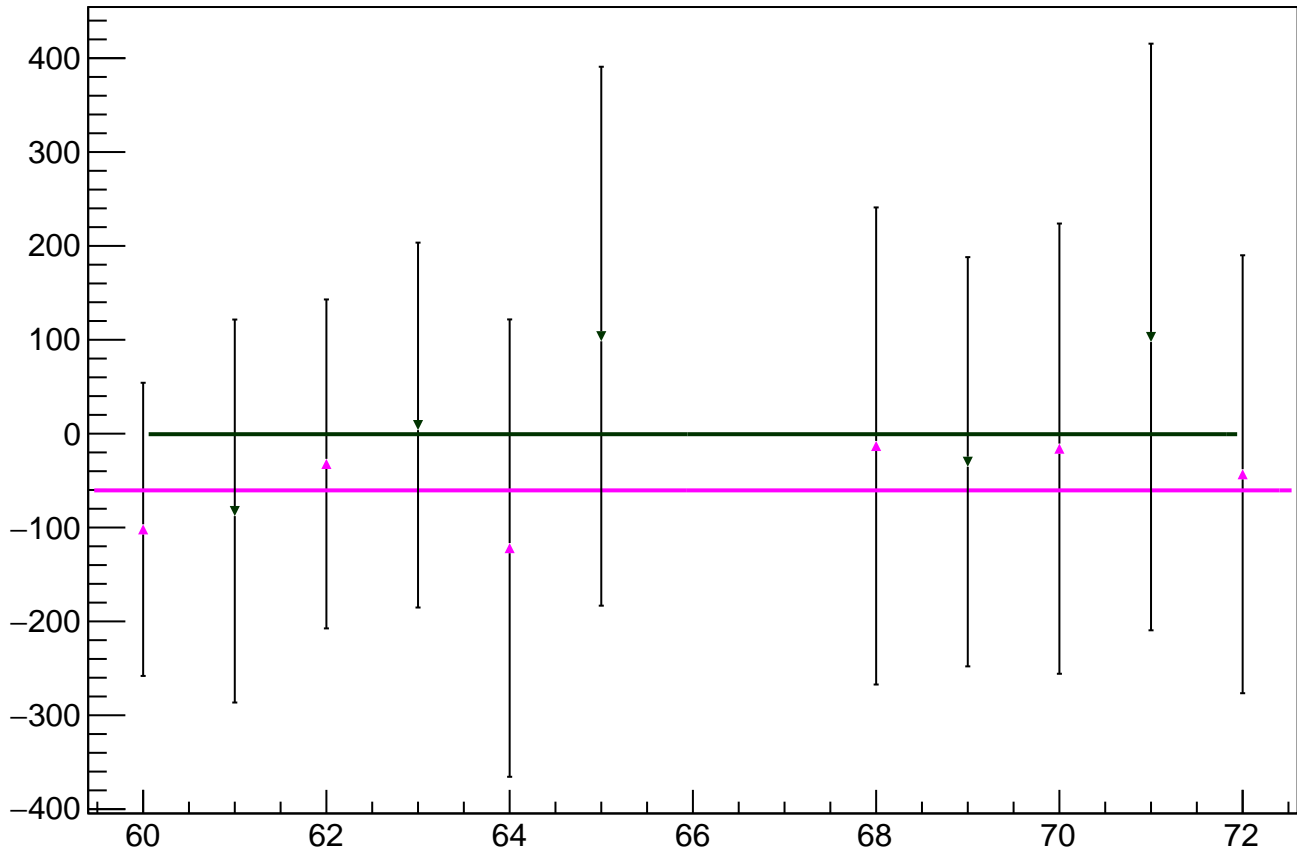
20.419+/-0.010  $\chi^2/\text{NDF}$ : 37338.7/4

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

Left In: 20.353+/-0.009  $\chi^2/\text{NDF}$ :30892.9/5

20.353+/-0.009  $\chi^2/\text{NDF}$ : 30892.9/5

# 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: -0.581+/-103.182  $\chi^2/\text{NDF}$ : 0.4/4

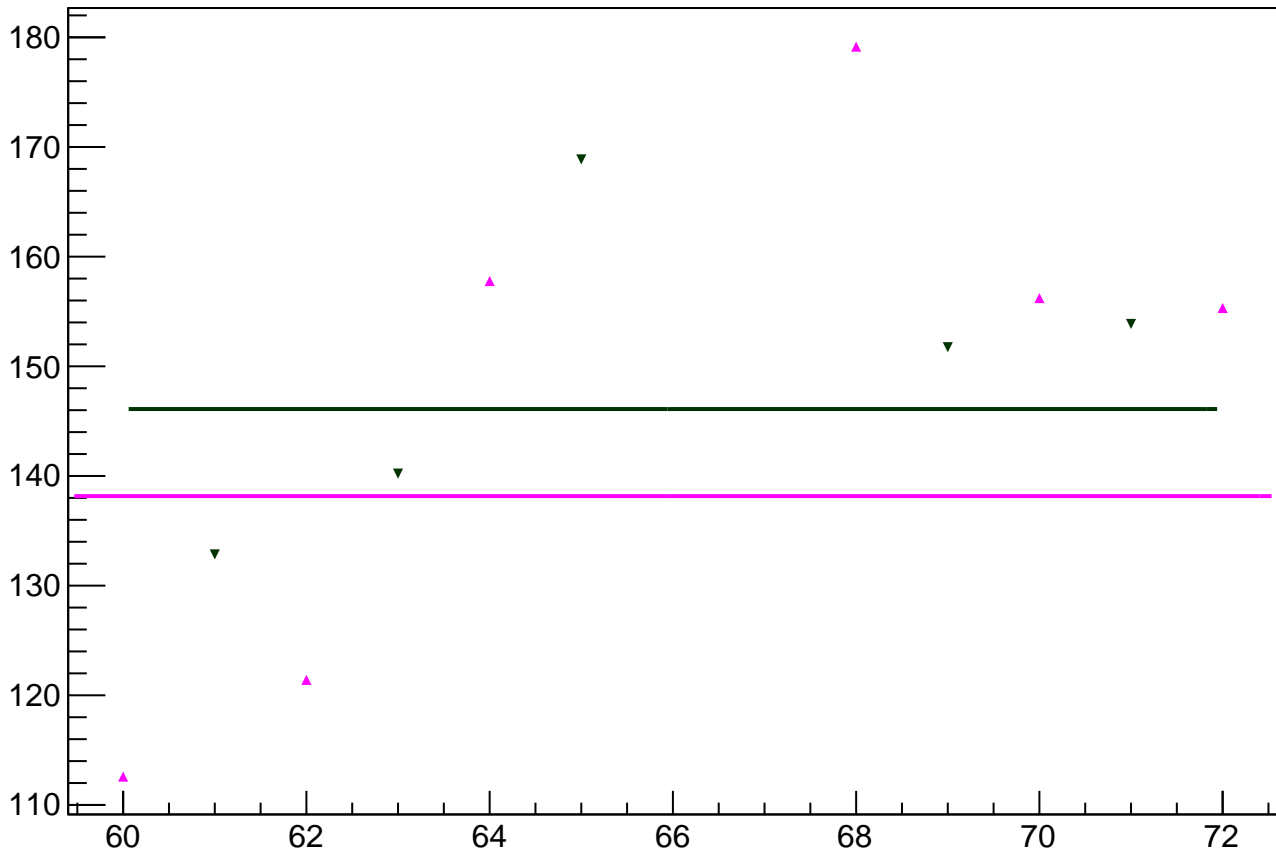
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -60.427+/-84.012  $\chi^2/\text{NDF}$ : 0.2/5

-0.581+/-103.182  $\chi^2/\text{NDF}$ : 0.4/4

-60.427+/-84.012  $\chi^2/\text{NDF}$ : 0.2/5

# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs slug



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

Left Out: 146.103+/-0.073  $\chi^2$ /NDF:25431.4/4

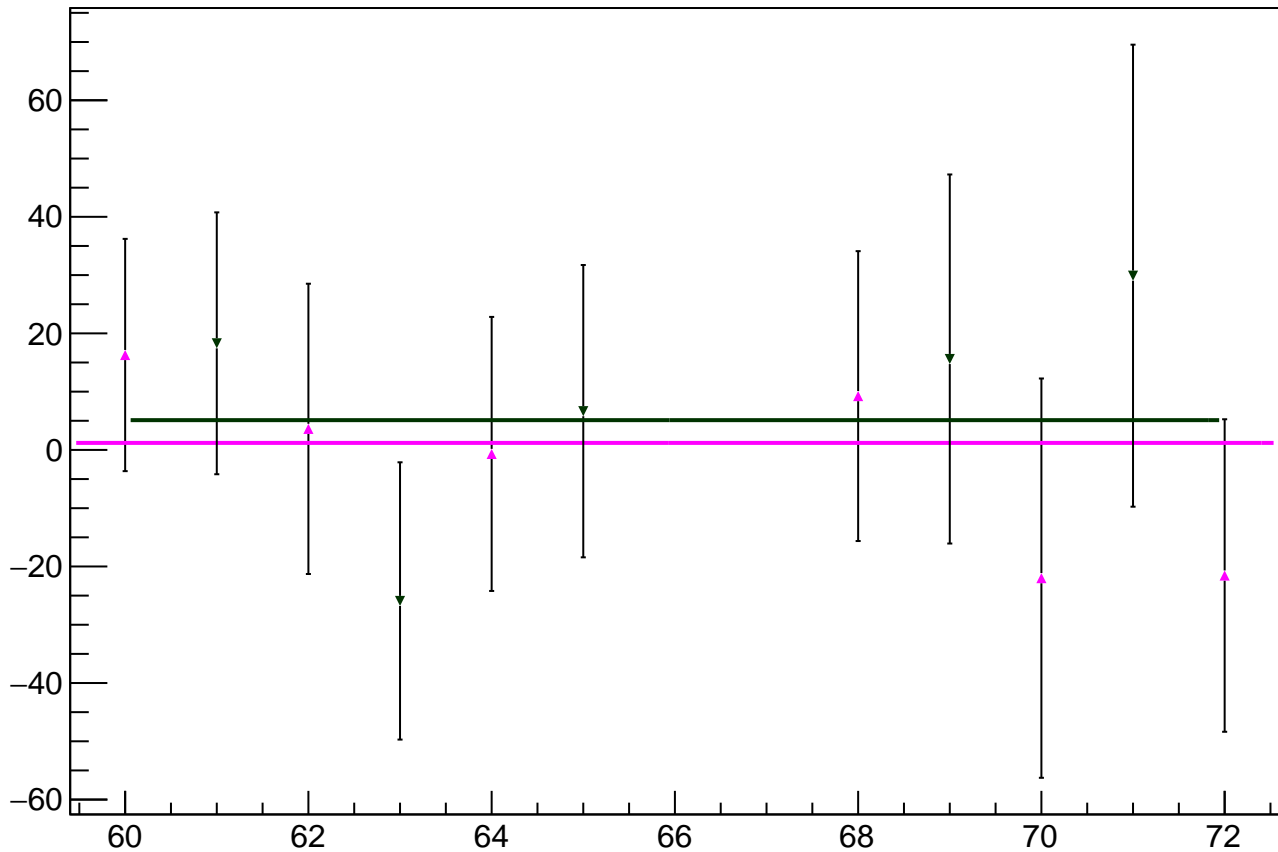
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 138.162+/-0.059  $\chi^2$ /NDF:159097.6/5

146.103+/-0.073  $\chi^2$ /NDF: 25431.4/4

138.162+/-0.059  $\chi^2$ /NDF: 159097.6/5

# 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: 5.109+/-11.977  $\chi^2/\text{NDF}$ : 2.5/4

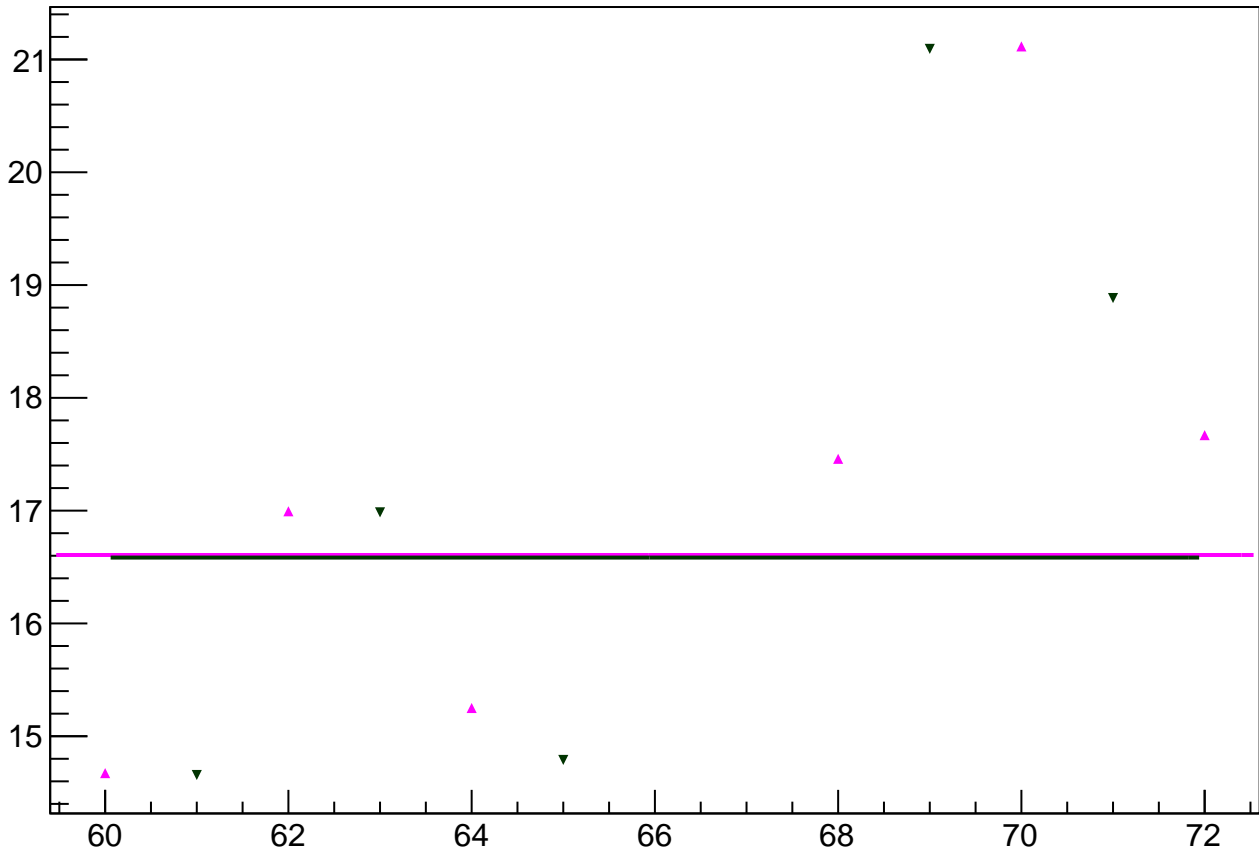
5.109+/-11.977  $\chi^2/\text{NDF}$ : 2.5/4

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

Left In: 1.205+/-10.102  $\chi^2/\text{NDF}$ : 1.9/5

1.205+/-10.102  $\chi^2/\text{NDF}$ : 1.9/5

# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs slug



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

16.584+/-0.008  $\chi^2/\text{NDF}$ : 72836.8/4

Left Out: 16.584+/-0.008  $\chi^2/\text{NDF}$ : 72836.8/4

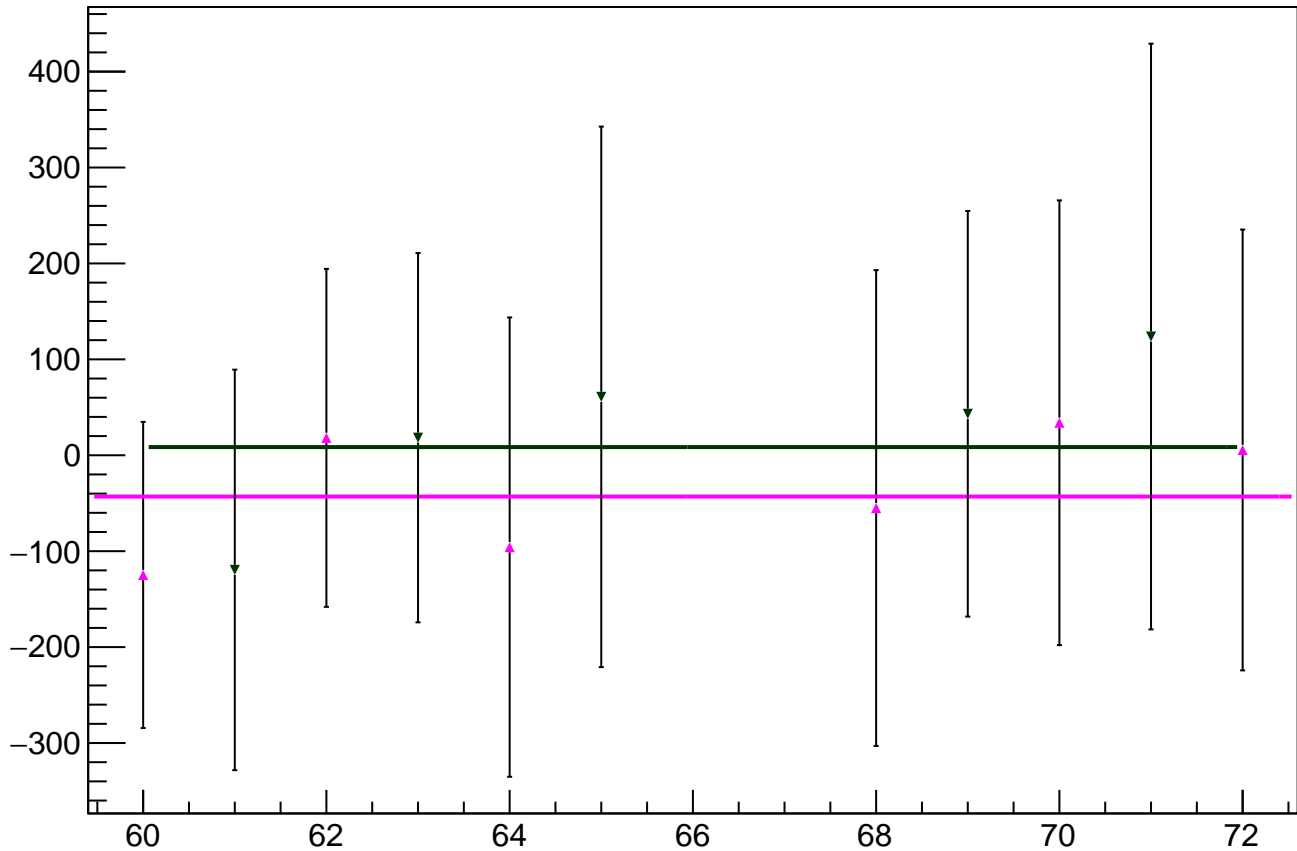
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

16.607+/-0.007  $\chi^2/\text{NDF}$ : 66109.9/5

Left In: 16.607+/-0.007  $\chi^2/\text{NDF}$ : 66109.9/5



# 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: 8.516+/-102.272  $\chi^2/\text{NDF}$ : 0.6/4

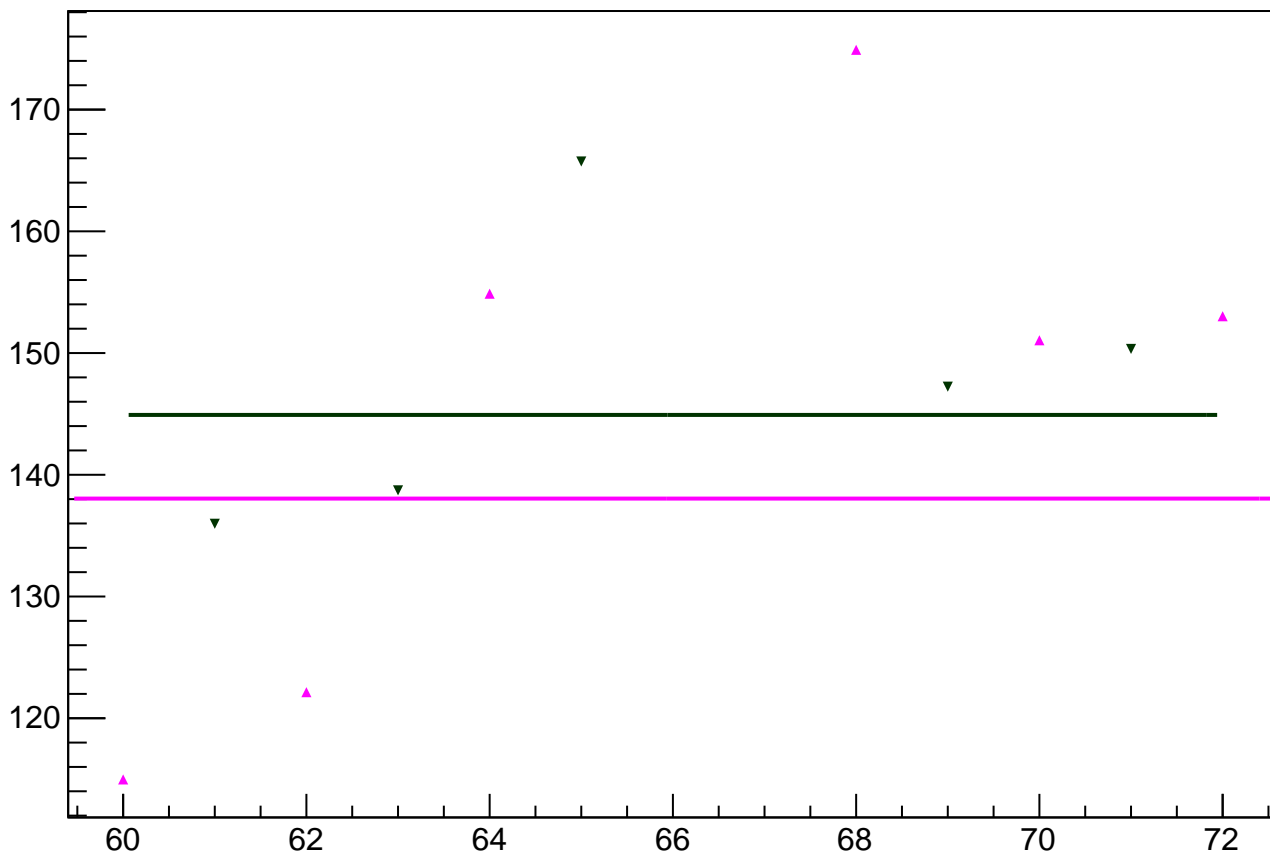
8.516+/-102.272  $\chi^2/\text{NDF}$ : 0.6/4

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

-43.055+/-83.712  $\chi^2/\text{NDF}$ : 0.6/5

Left In: -43.055+/-83.712  $\chi^2/\text{NDF}$ : 0.6/5

# 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: 144.917+/-0.072  $\chi^2/\text{NDF}$ : 17530.2/4

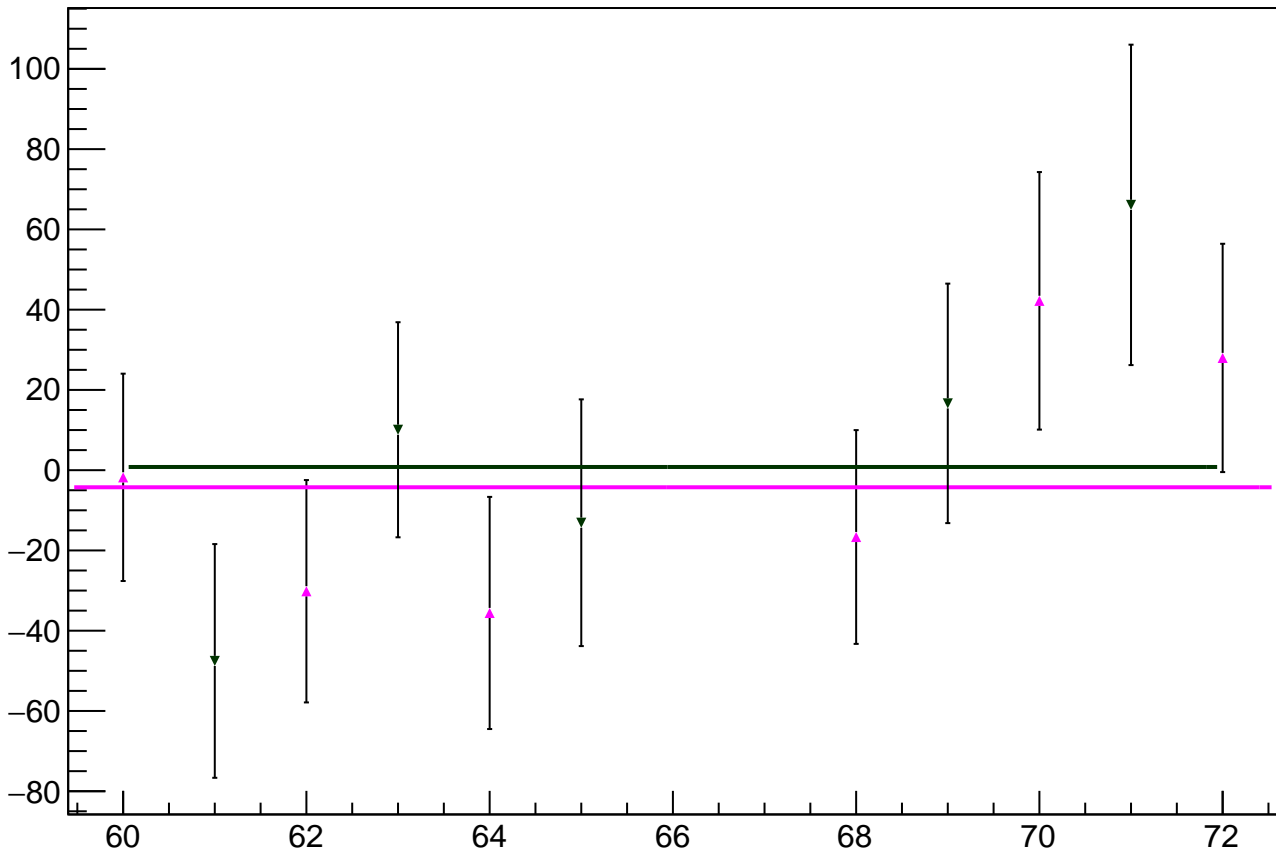
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.045+/-0.059  $\chi^2/\text{NDF}$ : 126926.2/5

144.917+/-0.072  $\chi^2/\text{NDF}$ : 17530.2/4

138.045+/-0.059  $\chi^2/\text{NDF}$ : 126926.2/5

# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: 0.797+/-13.633  $\chi^2/\text{NDF}$ :6.0/4

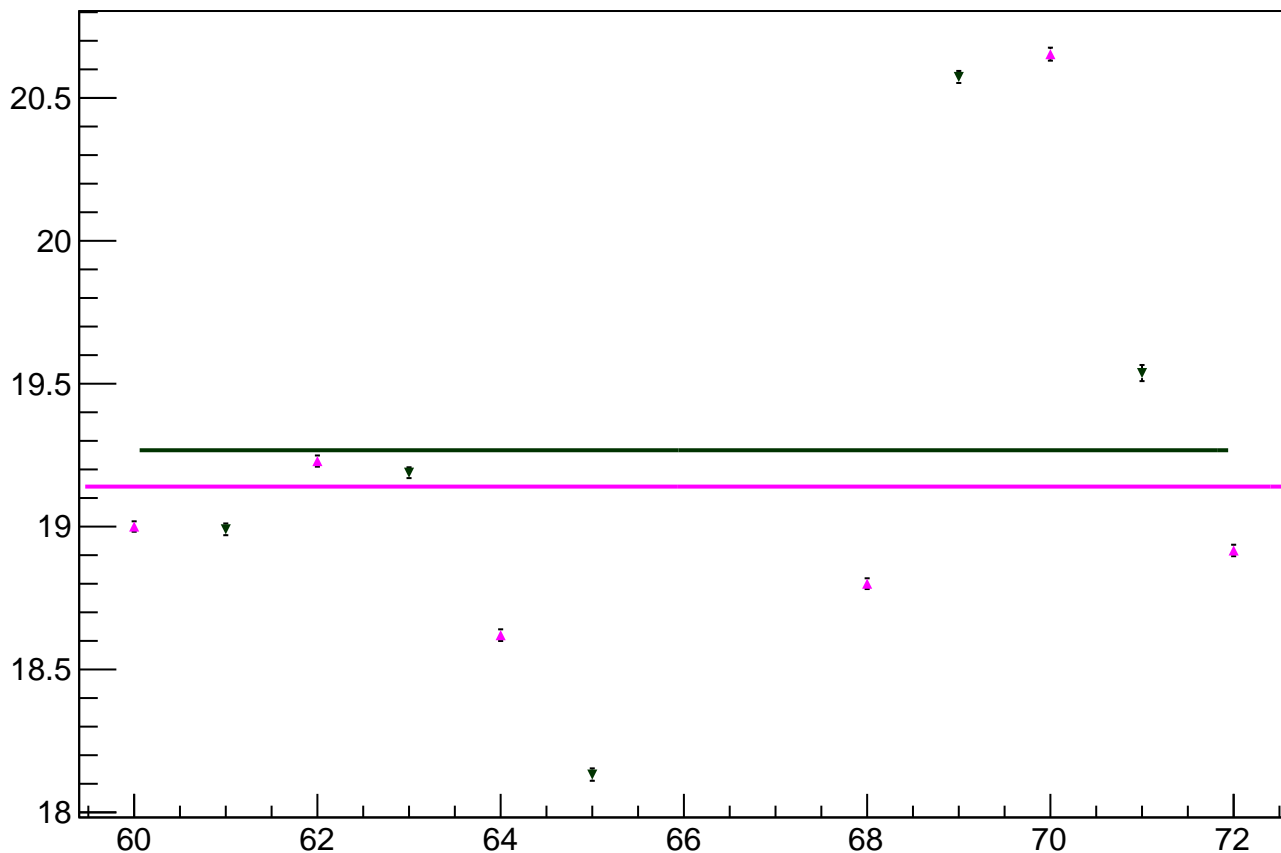
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -4.260+/-11.461  $\chi^2/\text{NDF}$ :5.7/5

0.797+/-13.633  $\chi^2/\text{NDF}$ : 6.0/4

-4.260+/-11.461  $\chi^2/\text{NDF}$ : 5.7/5

# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 19.267+/-0.010  $\chi^2/\text{NDF}$ : 6848.6/4

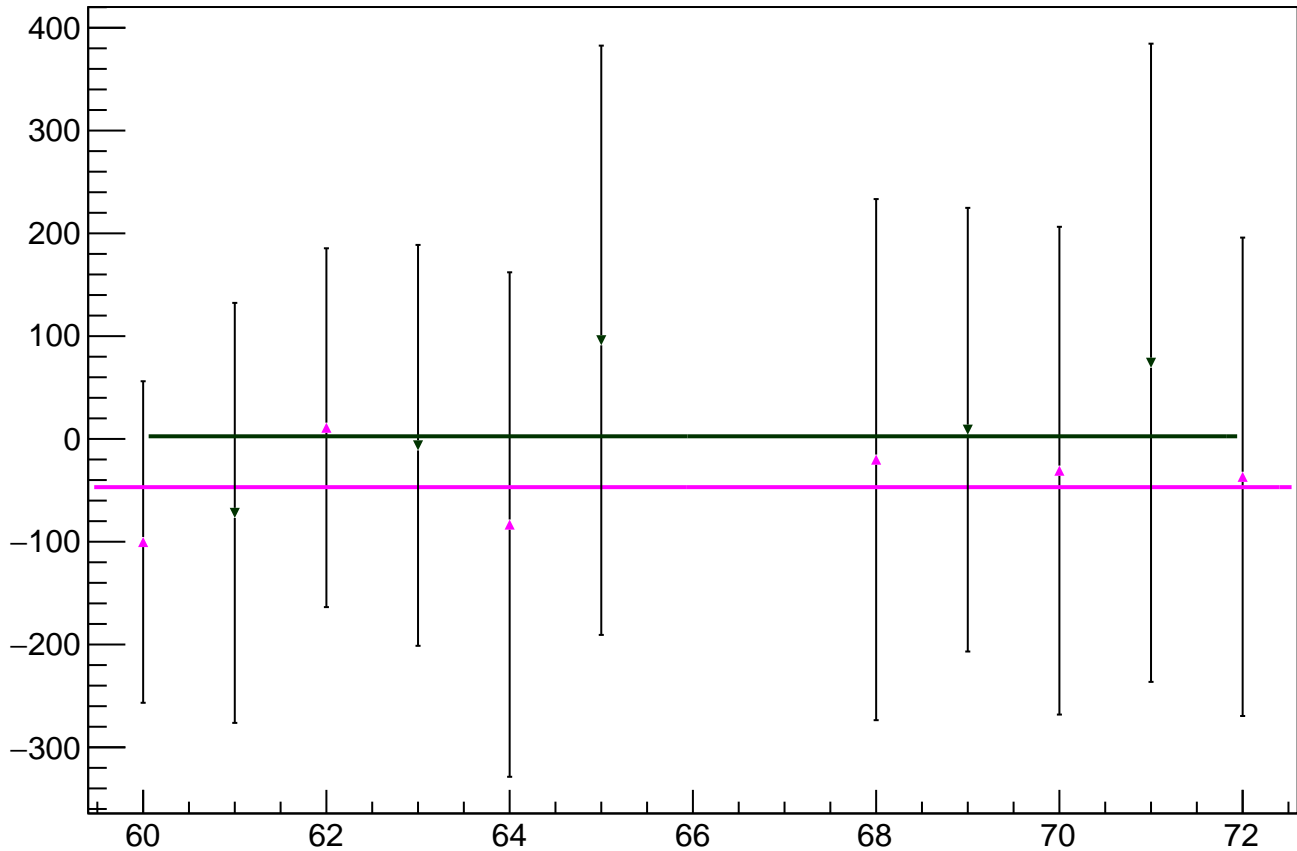
19.267+/-0.010  $\chi^2/\text{NDF}$ : 6848.6/4

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

19.140+/-0.008  $\chi^2/\text{NDF}$ : 5622.0/5

Left In: 19.140+/-0.008  $\chi^2/\text{NDF}$ : 5622.0/5

# 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

Left Out: 2.566+/-102.994  $\chi^2/\text{NDF}$ :0.3/4

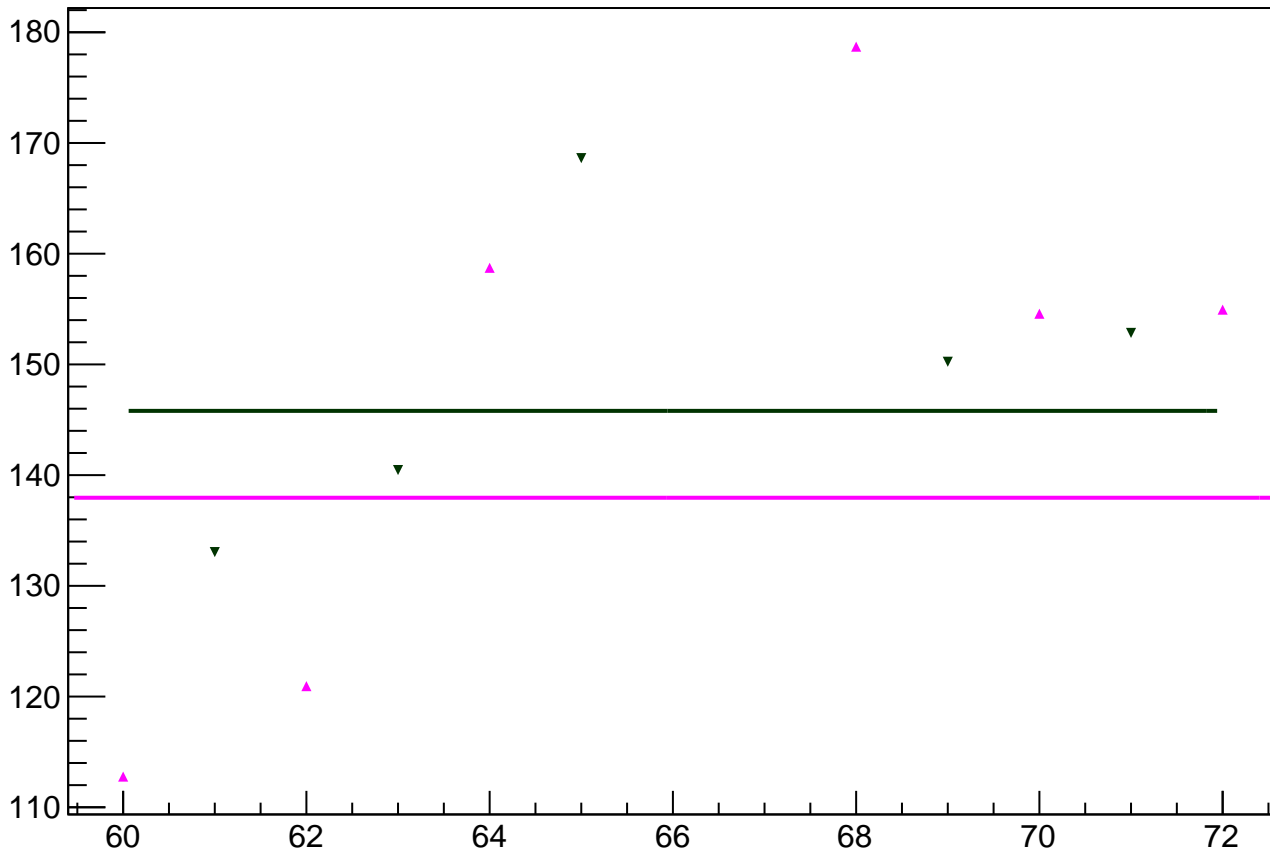
2.566+/-102.994  $\chi^2/\text{NDF}$ : 0.3/4

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

-46.907+/-83.889  $\chi^2/\text{NDF}$ : 0.3/5

Left In: -46.907+/-83.889  $\chi^2/\text{NDF}$ :0.3/5

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs slug



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

Left Out: 145.804+/-0.073  $\chi^2/\text{NDF}$ :23855.7/4

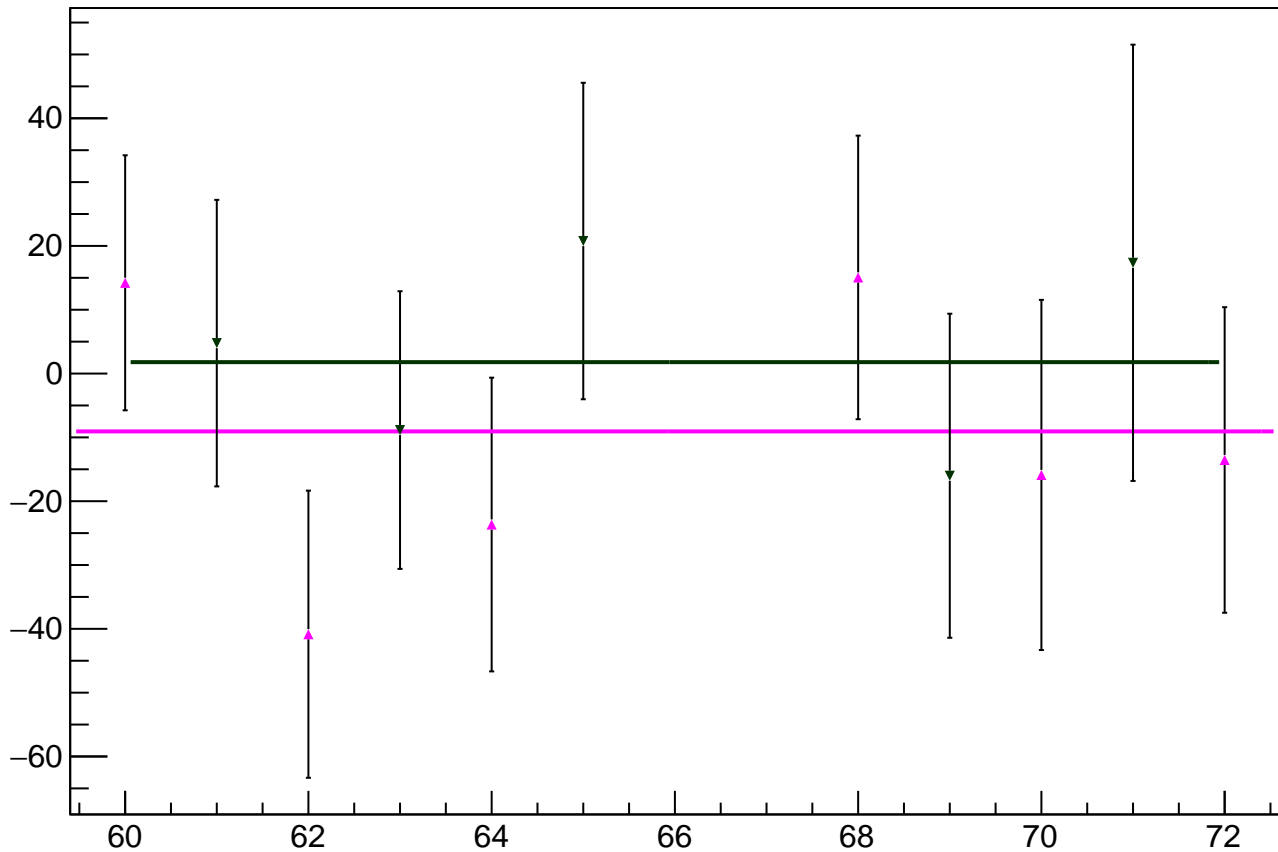
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 137.957+/-0.059  $\chi^2/\text{NDF}$ :157336.5/5

145.804+/-0.073  $\chi^2/\text{NDF}$ : 23855.7/4

137.957+/-0.059  $\chi^2/\text{NDF}$ : 157336.5/5

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: 1.790+/-11.090  $\chi^2/\text{NDF}$ : 1.5/4

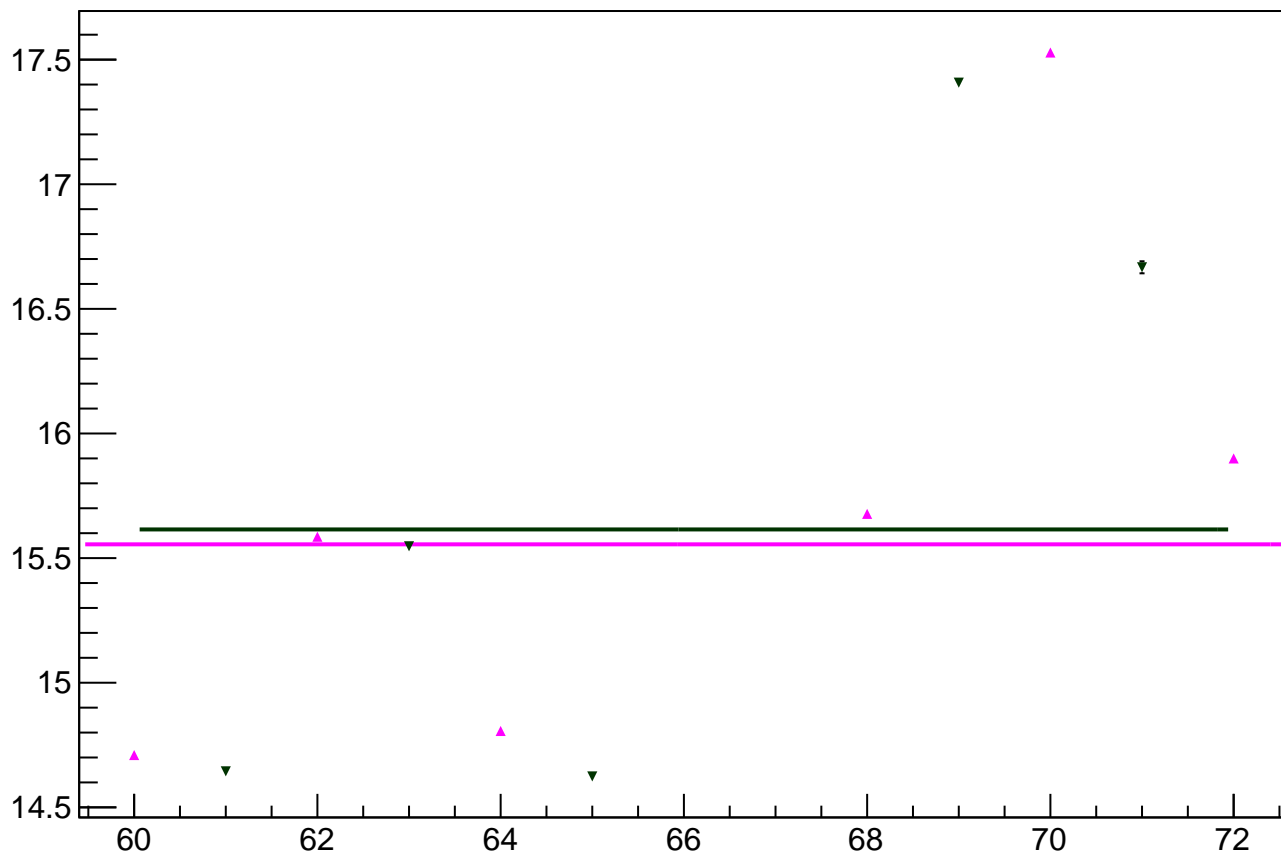
1.790+/-11.090  $\chi^2/\text{NDF}$ : 1.5/4

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

-9.064+/-9.338  $\chi^2/\text{NDF}$ : 5.0/5

Left In: -9.064+/-9.338  $\chi^2/\text{NDF}$ : 5.0/5

# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 15.615+/-0.008  $\chi^2$ /NDF:18815.2/4

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

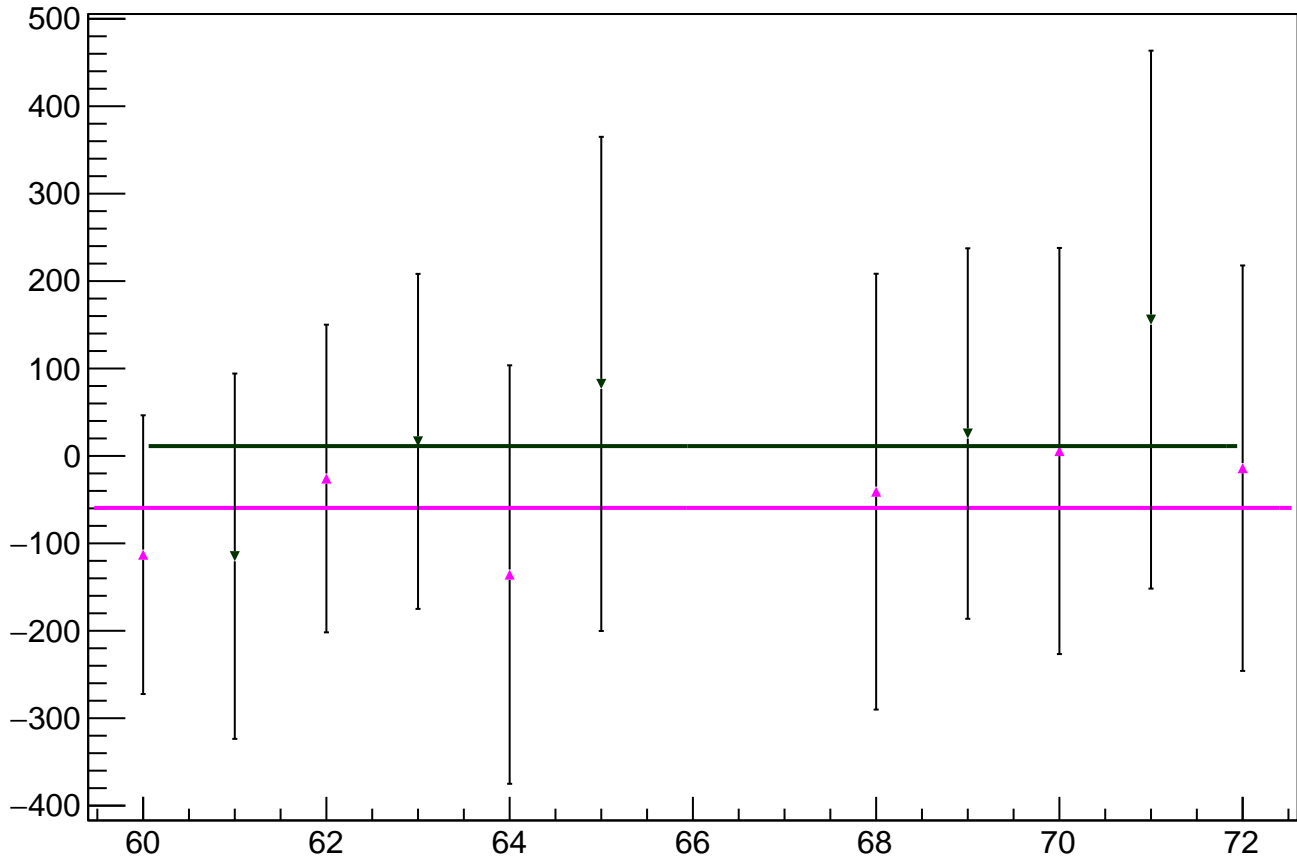
Left In: 15.555+/-0.007  $\chi^2$ /NDF:16526.1/5

15.615+/-0.008  $\chi^2$ /NDF: 18815.2/4

15.555+/-0.007  $\chi^2$ /NDF: 16526.1/5



# 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

Left Out: 11.256+/-102.323  $\chi^2/\text{NDF}$ : 0.7/4

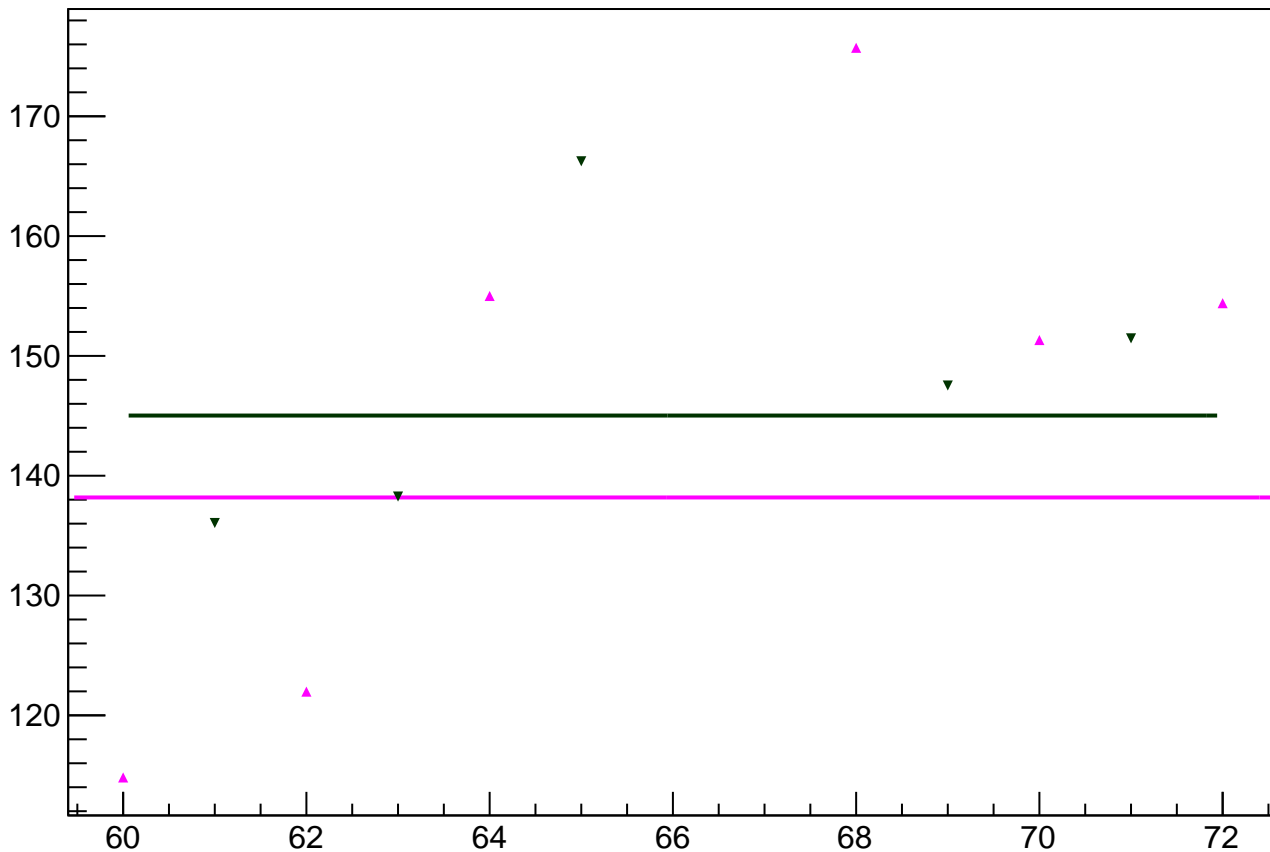
11.256+/-102.323  $\chi^2/\text{NDF}$ : 0.7/4

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

-59.441+/-83.817  $\chi^2/\text{NDF}$ : 0.4/5

Left In: -59.441+/-83.817  $\chi^2/\text{NDF}$ : 0.4/5

# 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: 145.022+/-0.072  $\chi^2$ /NDF:18610.4/4

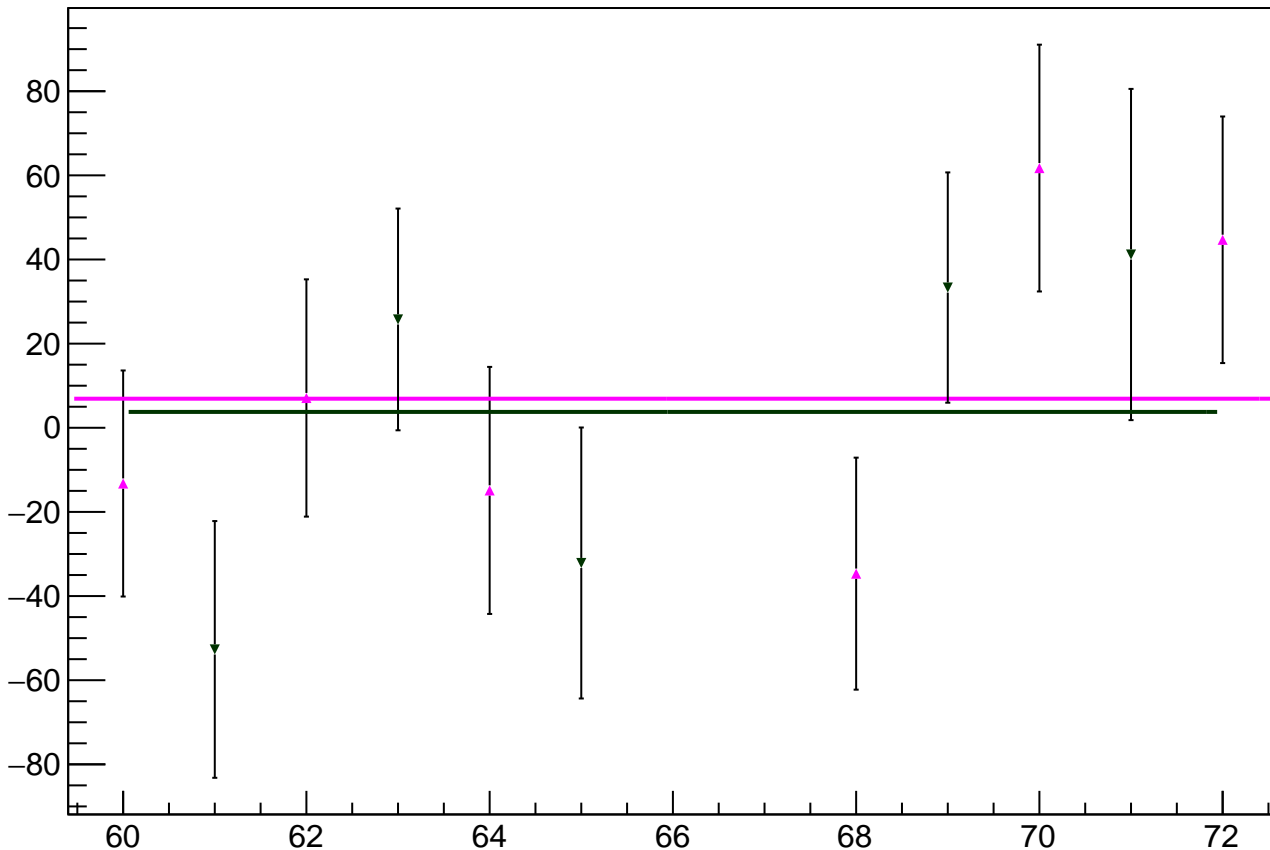
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 138.185+/-0.059  $\chi^2$ /NDF:131355.8/5

145.022+/-0.072  $\chi^2$ /NDF: 18610.4/4

138.185+/-0.059  $\chi^2$ /NDF: 131355.8/5

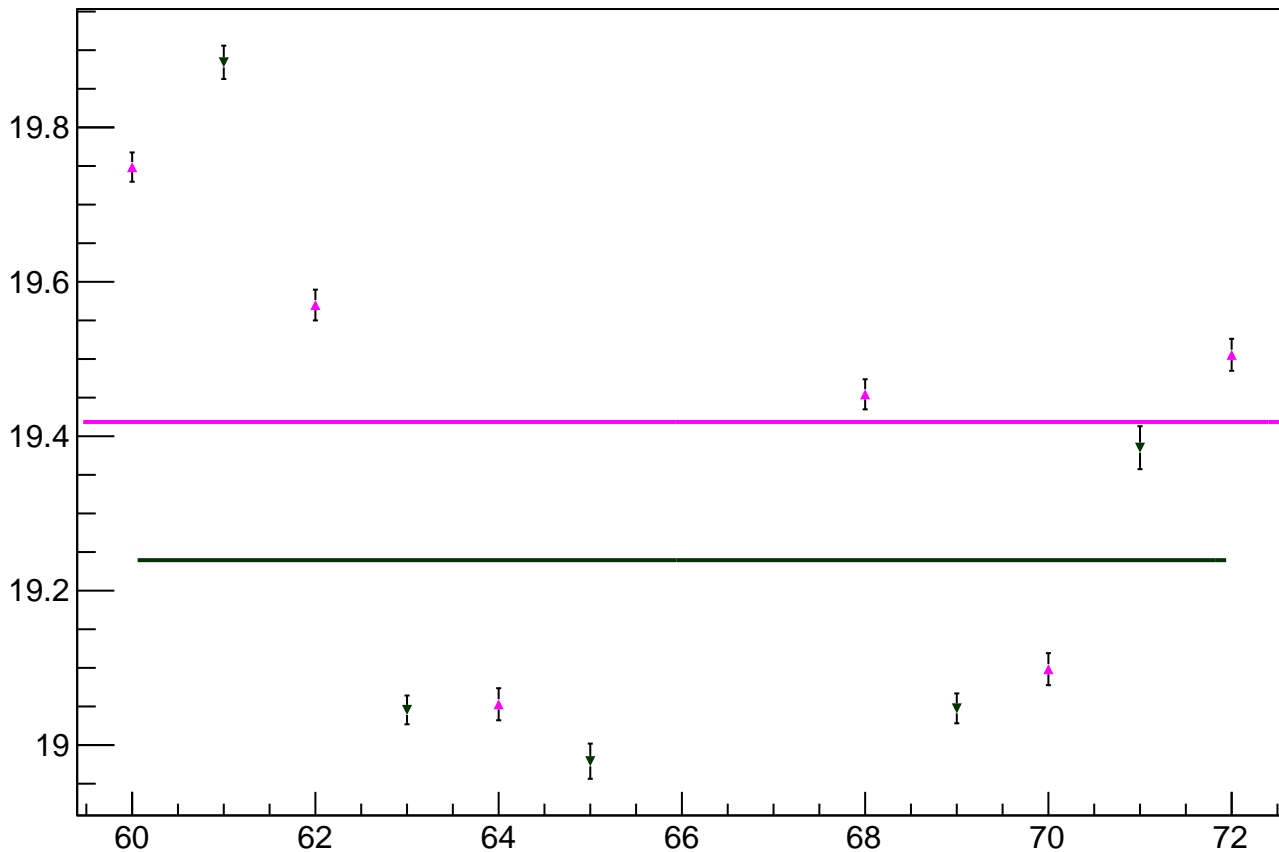
# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 3.770+/-13.535  $\chi^2$ /NDF:7.4/4  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 6.911+/-11.589  $\chi^2$ /NDF:8.5/5

3.770+/-13.535  $\chi^2$ /NDF: 7.4/4  
6.911+/-11.589  $\chi^2$ /NDF: 8.5/5

# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



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

Left Out: 19.239+/-0.010  $\chi^2$ /NDF:1257.9/4

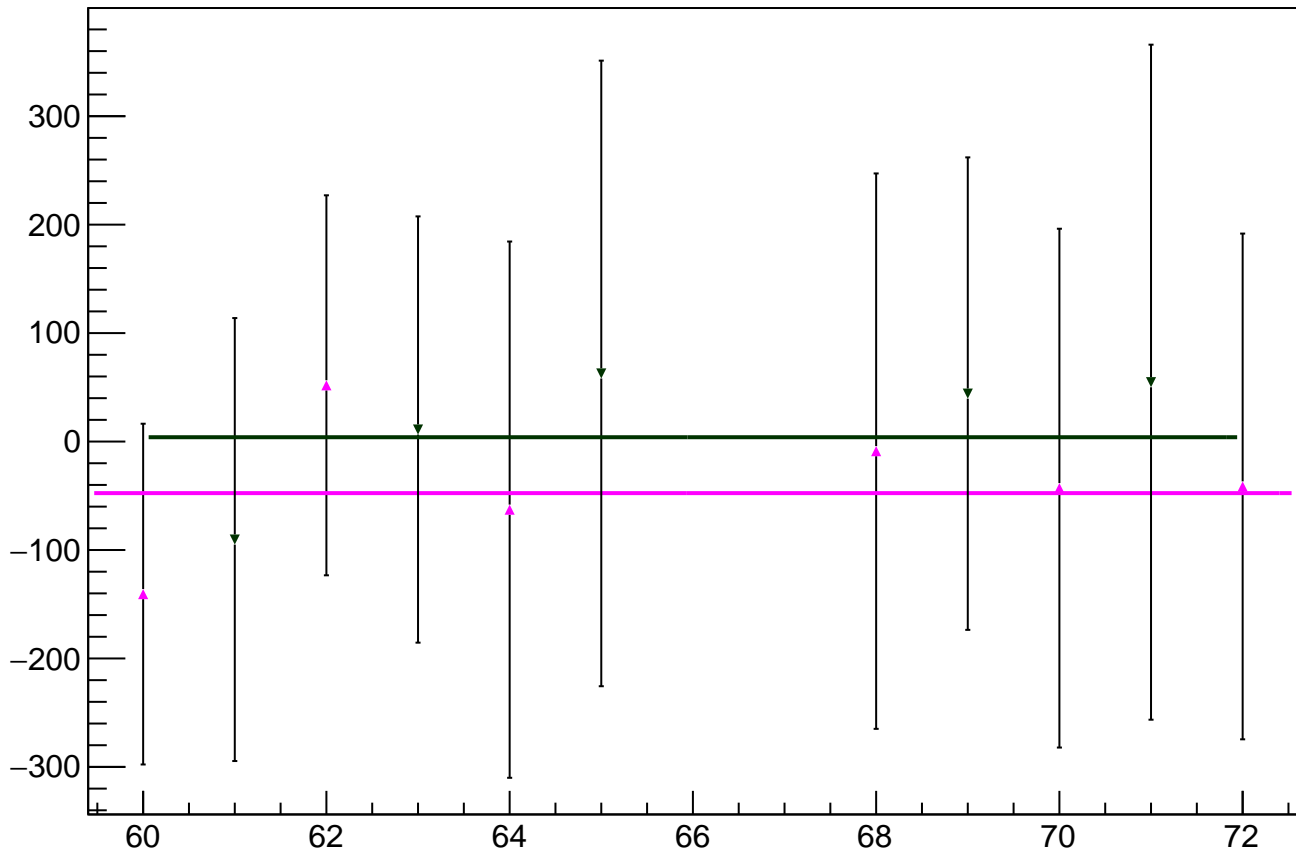
19.239+/-0.010  $\chi^2$ /NDF: 1257.9/4

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

19.418+/-0.008  $\chi^2$ /NDF: 929.0/5

Left In: 19.418+/-0.008  $\chi^2$ /NDF:929.0/5

# 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: 3.989+/-103.531  $\chi^2/\text{NDF}$ : 0.3/4

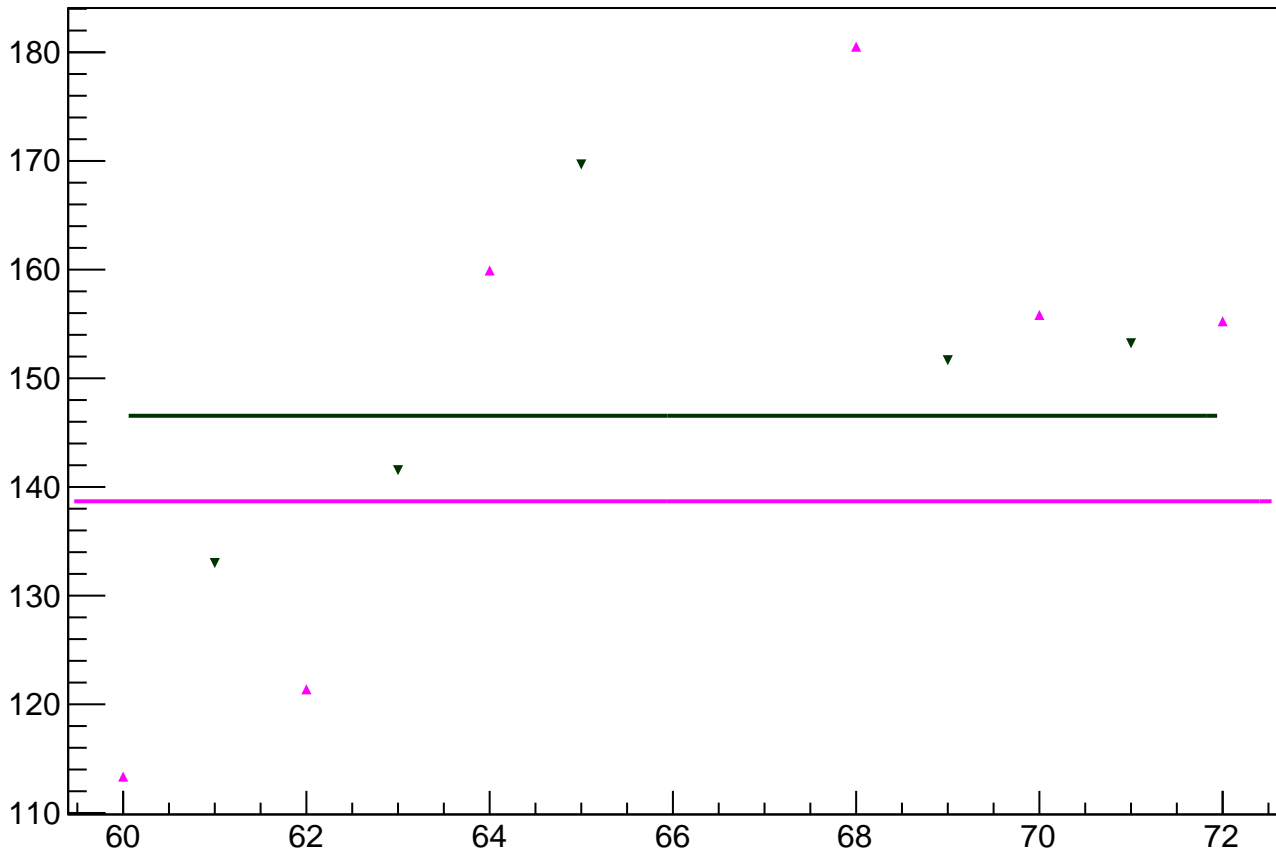
3.989+/-103.531  $\chi^2/\text{NDF}$ : 0.3/4

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

-47.551+/-84.338  $\chi^2/\text{NDF}$ : 0.7/5

Left In: -47.551+/-84.338  $\chi^2/\text{NDF}$ : 0.7/5

# 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: 146.553+/-0.073  $\chi^2/\text{NDF}$ : 24989.9/4

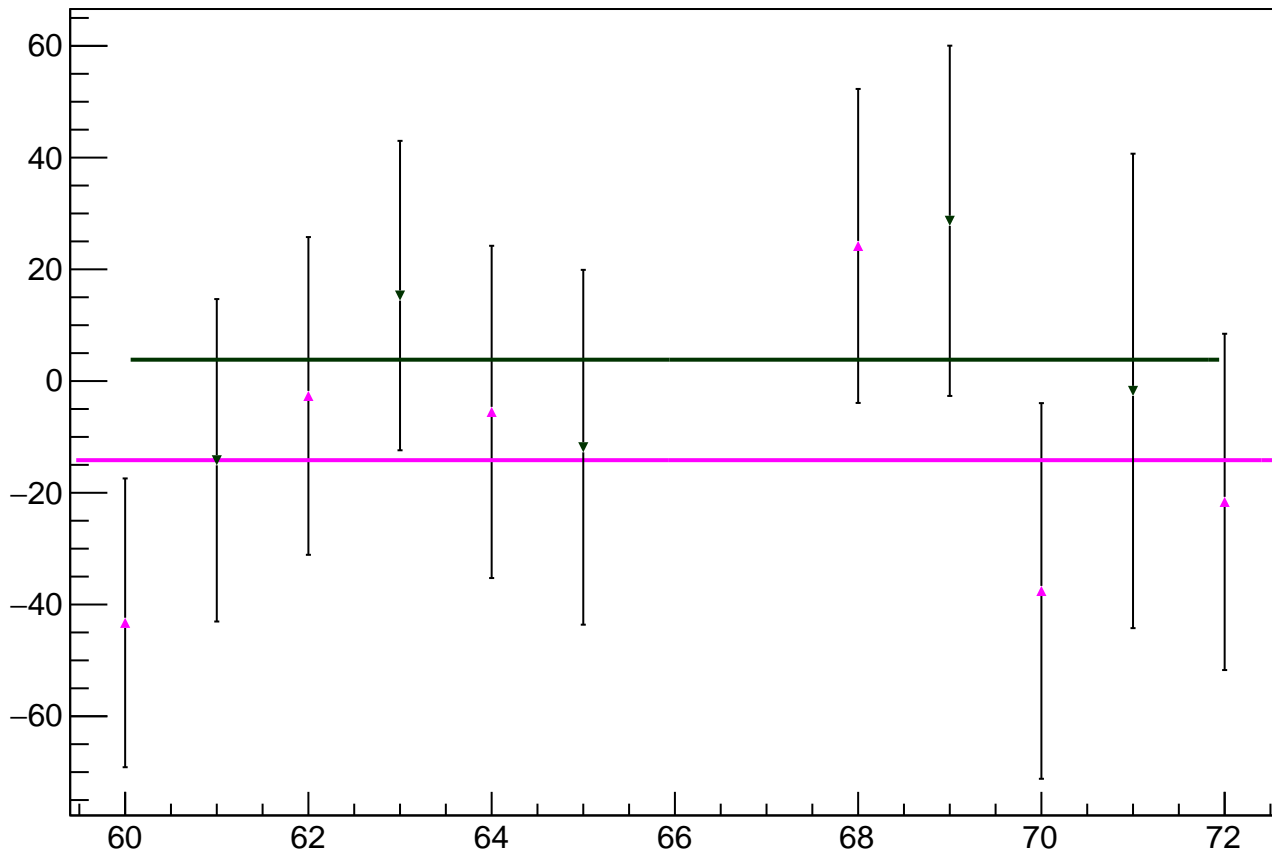
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.681+/-0.060  $\chi^2/\text{NDF}$ : 160050.2/5

146.553+/-0.073  $\chi^2/\text{NDF}$ : 24989.9/4

138.681+/-0.060  $\chi^2/\text{NDF}$ : 160050.2/5

# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs slug



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

Left Out: 3.825+/-14.047  $\chi^2/\text{NDF}$ : 1.5/4

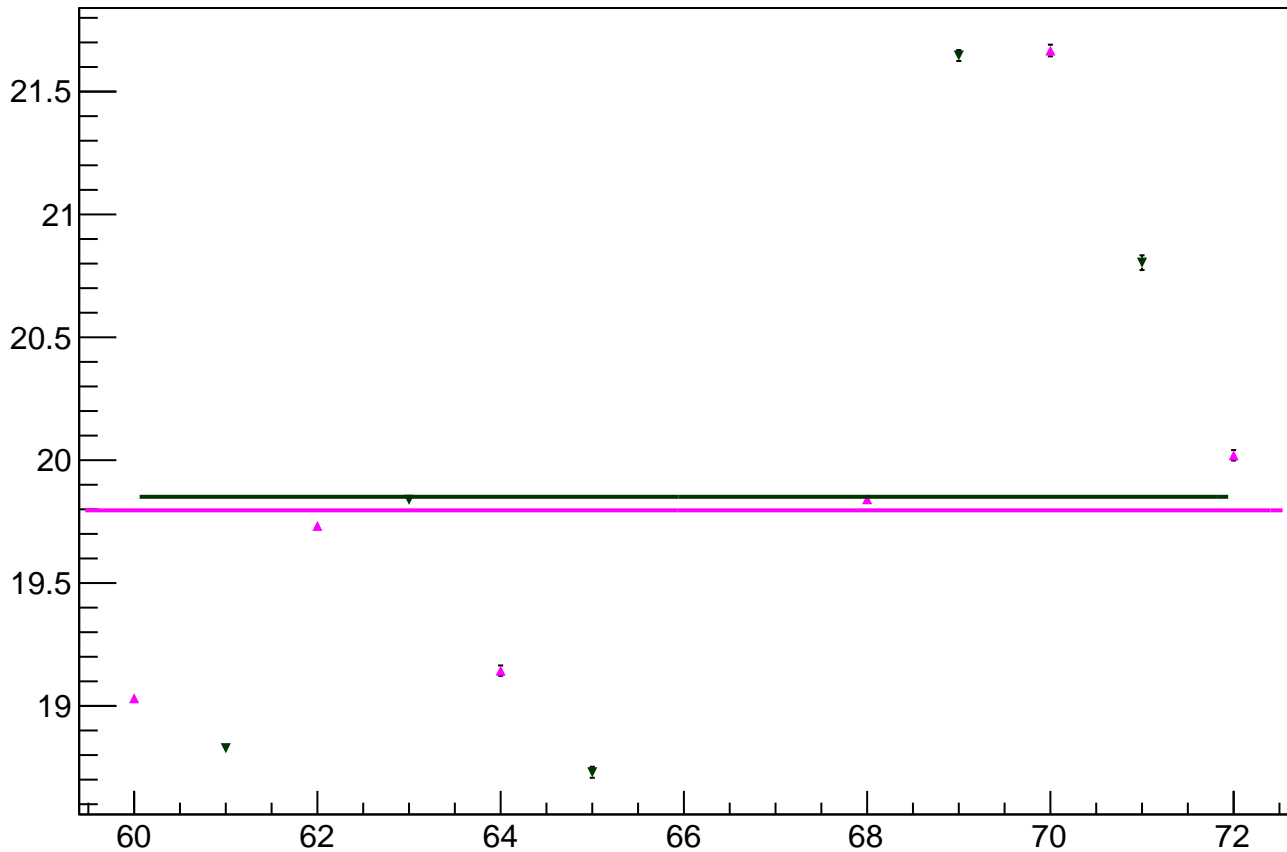
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: -14.161+/-11.852  $\chi^2/\text{NDF}$ : 3.9/5

3.825+/-14.047  $\chi^2/\text{NDF}$ : 1.5/4

-14.161+/-11.852  $\chi^2/\text{NDF}$ : 3.9/5

# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs slug



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

Left Out: 19.851+/-0.010  $\chi^2/\text{NDF}: 12575.6/4$

19.851+/-0.010  $\chi^2/\text{NDF}: 12575.6/4$

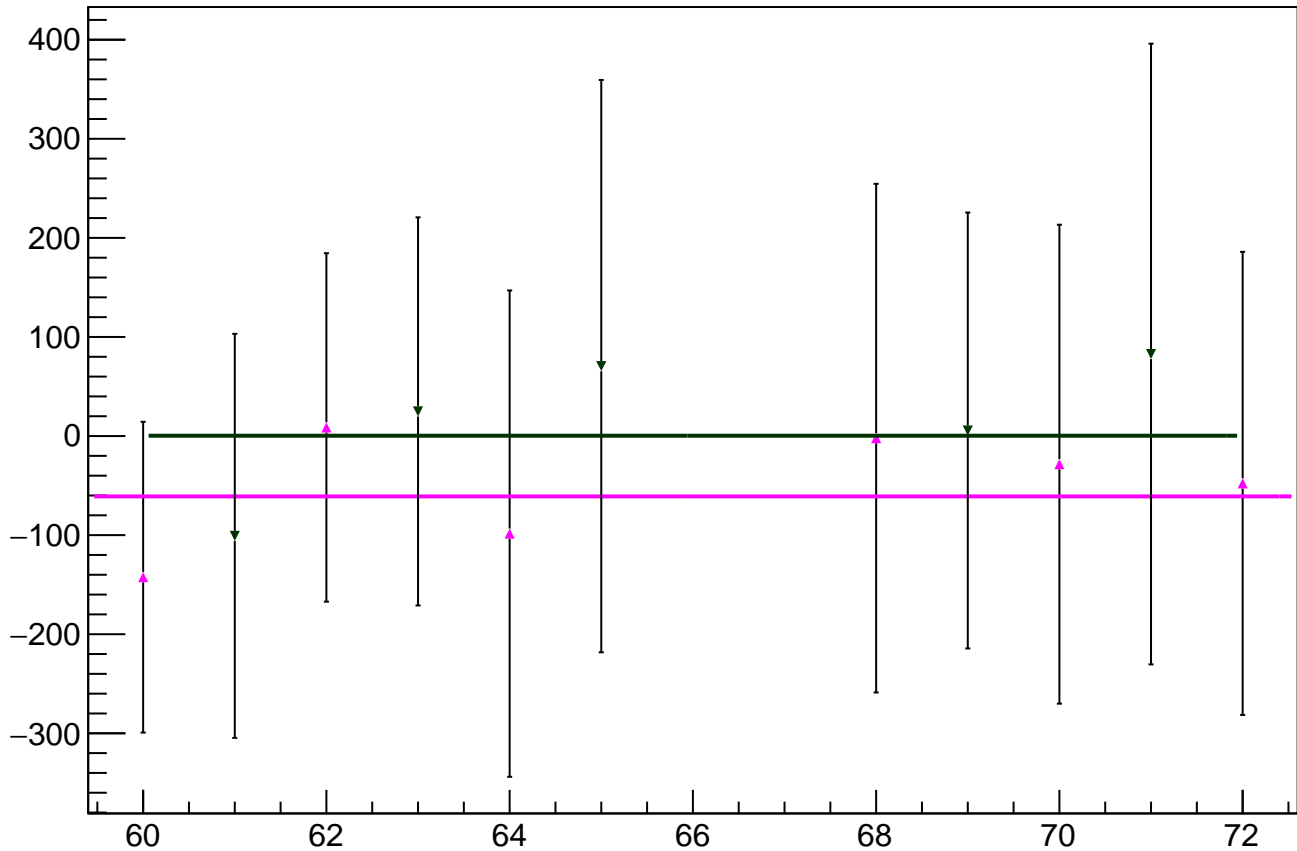
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}: 0.0/0$

19.796+/-0.008  $\chi^2/\text{NDF}: 9032.3/5$

Left In: 19.796+/-0.008  $\chi^2/\text{NDF}: 9032.3/5$



asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs slug



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

Left Out: 0.330+/-103.714  $\chi^2/\text{NDF}$ : 0.4/4

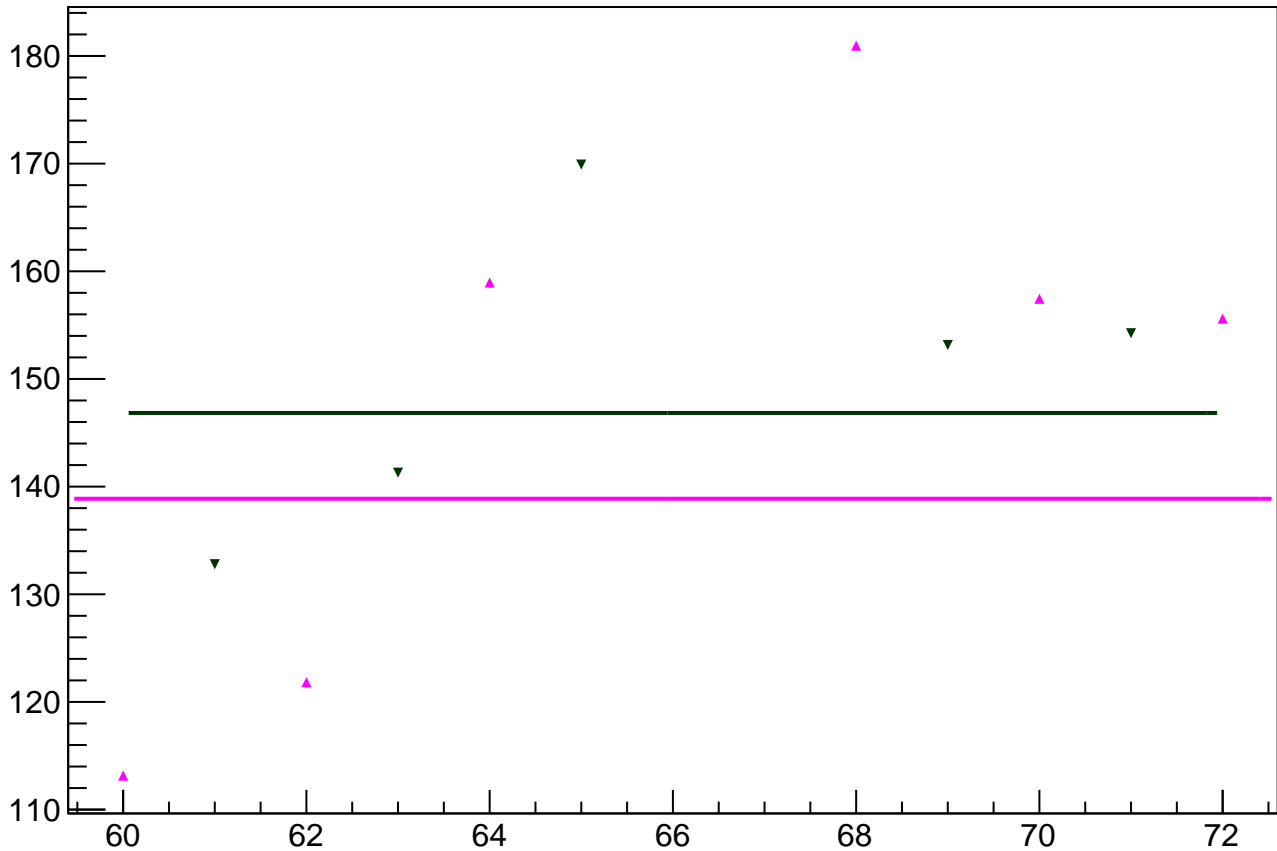
0.330+/-103.714  $\chi^2/\text{NDF}$ : 0.4/4

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

-60.897+/-84.454  $\chi^2/\text{NDF}$ : 0.5/5

Left In: -60.897+/-84.454  $\chi^2/\text{NDF}$ : 0.5/5

# 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: 146.842+/-0.073  $\chi^2/\text{NDF}$ :26629.2/4

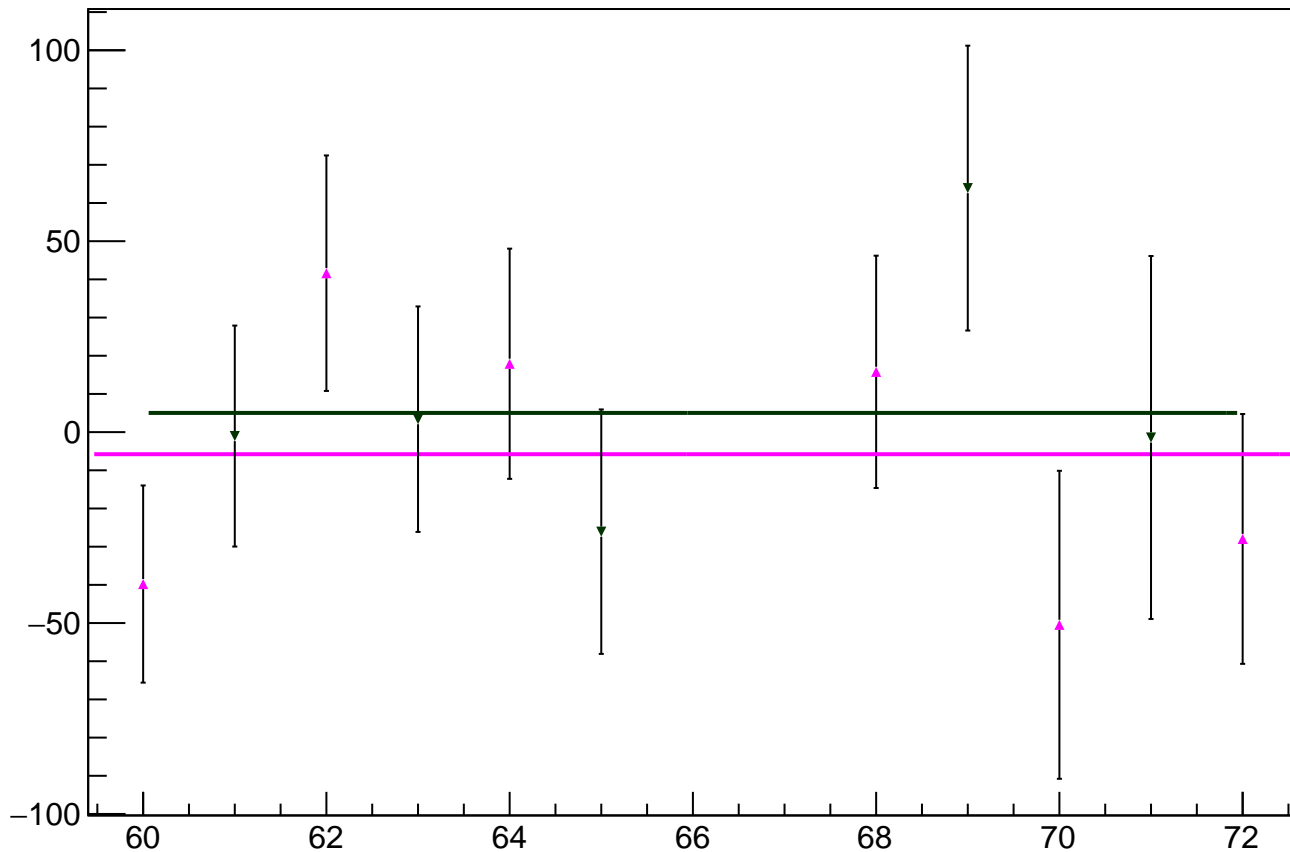
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.873+/-0.060  $\chi^2/\text{NDF}$ :161812.6/5

146.842+/-0.073  $\chi^2/\text{NDF}$ : 26629.2/4

138.873+/-0.060  $\chi^2/\text{NDF}$ : 161812.6/5

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs slug



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

Left Out: 5.028+/-14.942  $\chi^2/\text{NDF}$ : 3.5/4

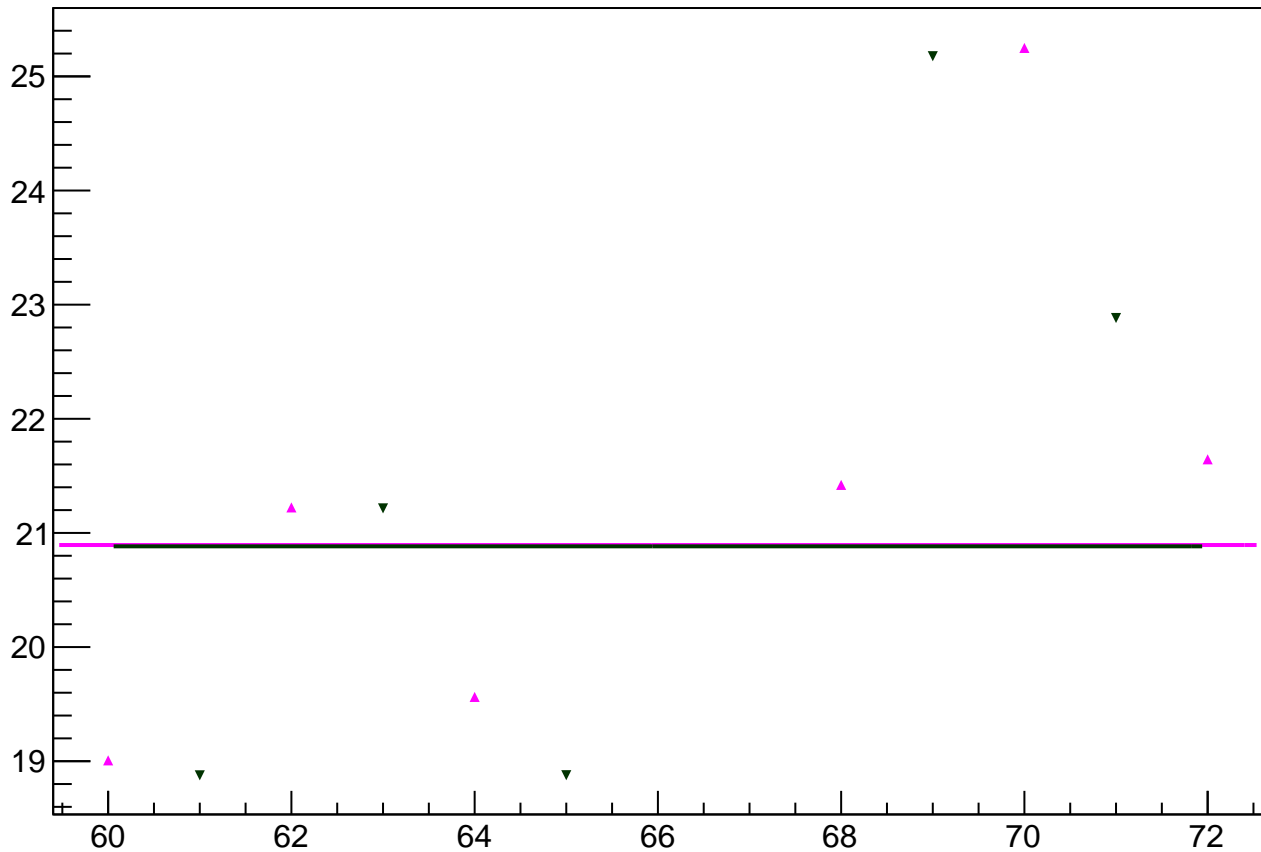
5.028+/-14.942  $\chi^2/\text{NDF}$ : 3.5/4

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

-5.782+/-12.616  $\chi^2/\text{NDF}$ : 6.9/5

Left In: -5.782+/-12.616  $\chi^2/\text{NDF}$ : 6.9/5

# 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: 20.883+/-0.011  $\chi^2/\text{NDF}$ : 47770.4/4

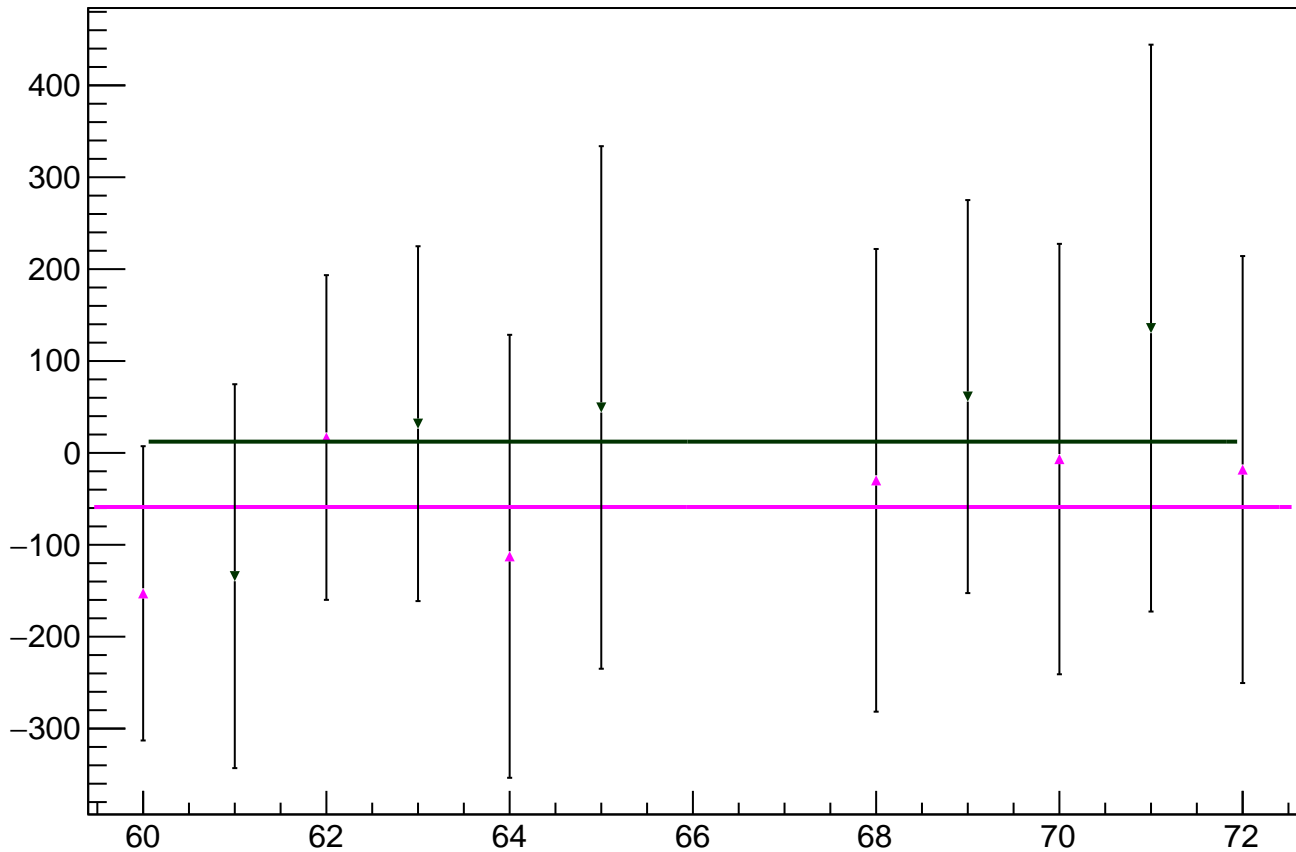
20.883+/-0.011  $\chi^2/\text{NDF}$ : 47770.4/4

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

20.894+/-0.009  $\chi^2/\text{NDF}$ : 39790.6/5

Left In: 20.894+/-0.009  $\chi^2/\text{NDF}$ : 39790.6/5

# 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: 12.265+/-102.880  $\chi^2/\text{NDF}$ : 0.7/4

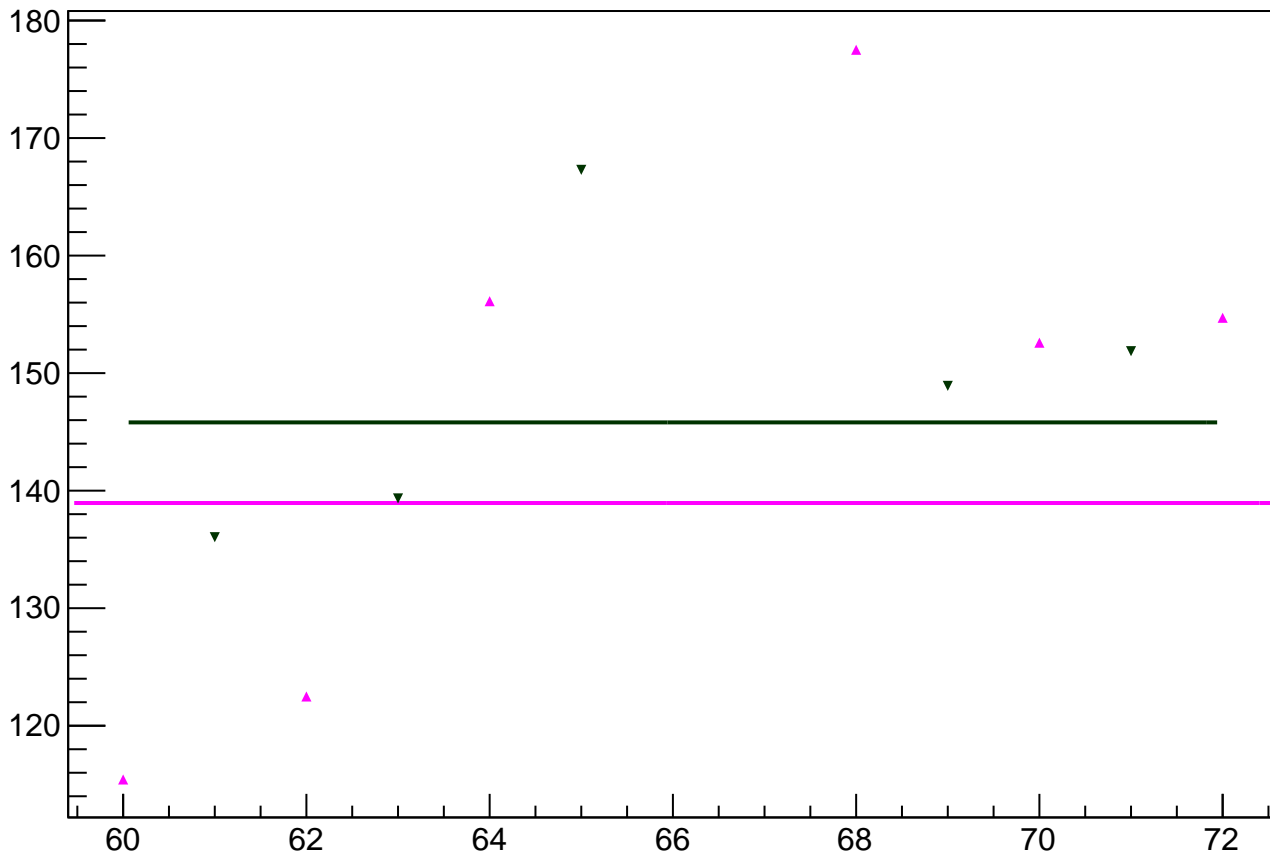
12.265+/-102.880  $\chi^2/\text{NDF}$ : 0.7/4

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

-58.876+/-84.285  $\chi^2/\text{NDF}$ : 0.7/5

Left In: -58.876+/-84.285  $\chi^2/\text{NDF}$ : 0.7/5

# 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: 145.808+/-0.073  $\chi^2/\text{NDF}$ : 19229.3/4

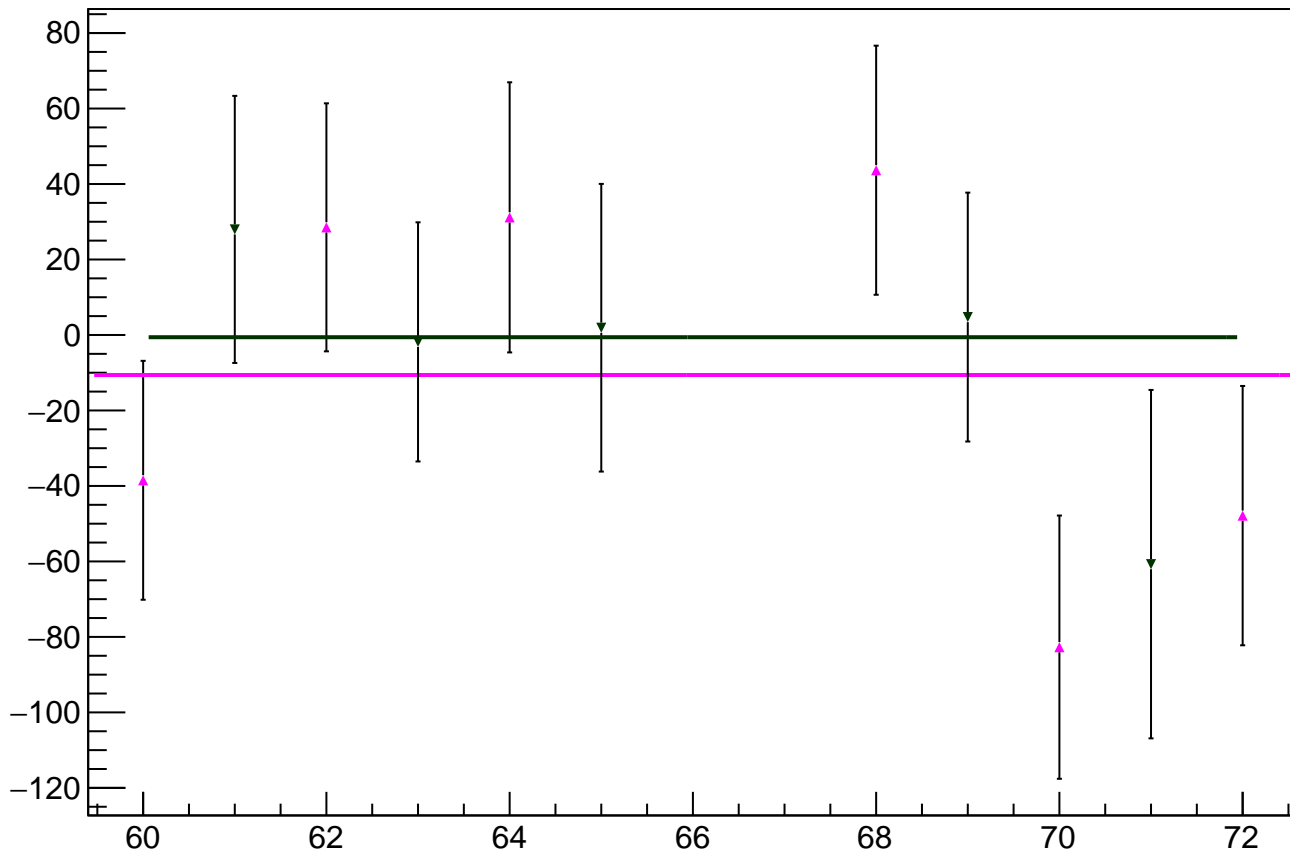
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.950+/-0.060  $\chi^2/\text{NDF}$ : 133555.8/5

145.808+/-0.073  $\chi^2/\text{NDF}$ : 19229.3/4

138.950+/-0.060  $\chi^2/\text{NDF}$ : 133555.8/5

# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs slug



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

Left Out: -0.592+/-16.069  $\chi^2/\text{NDF}$ : 2.4/4

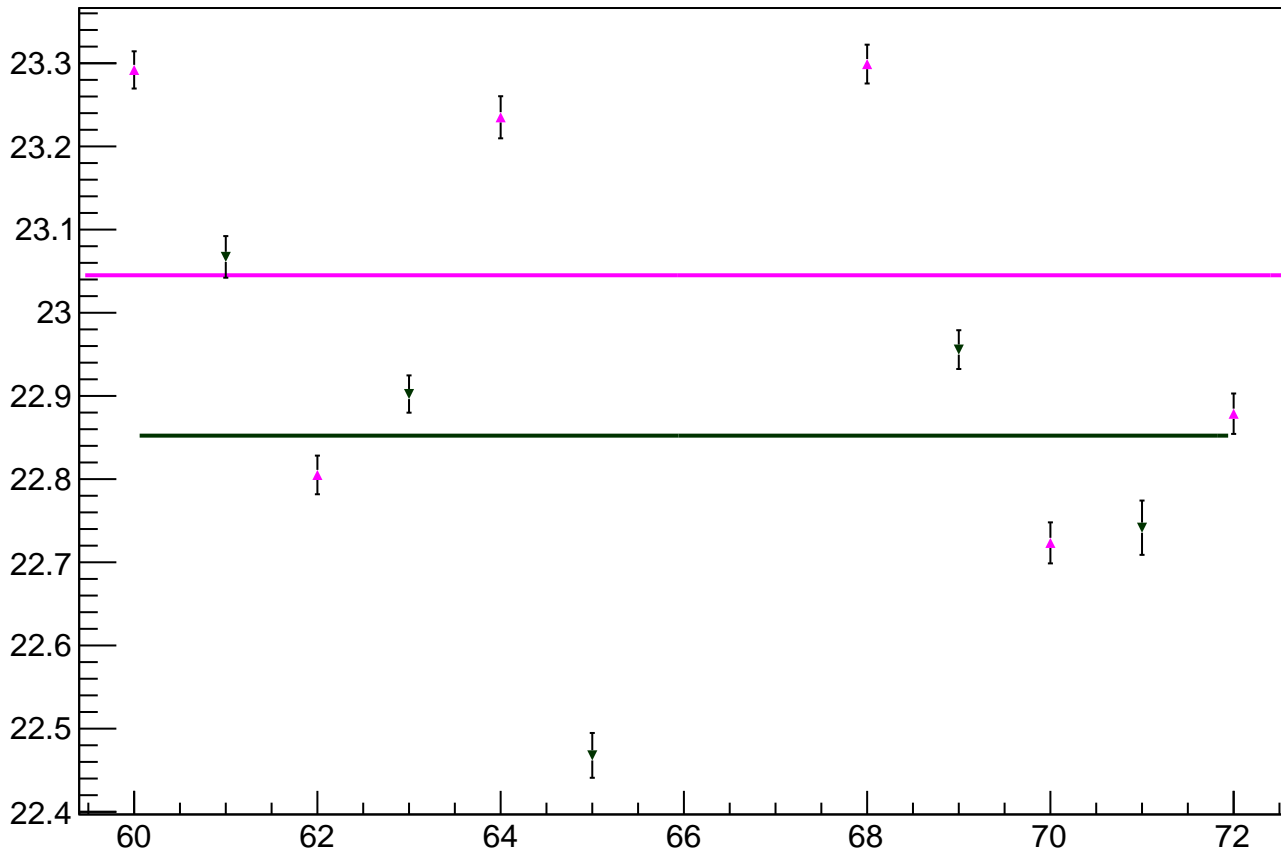
-0.592+/-16.069  $\chi^2/\text{NDF}$ : 2.4/4

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

Left In: -10.608+/-13.745  $\chi^2/\text{NDF}$ : 11.7/5

-10.608+/-13.745  $\chi^2/\text{NDF}$ : 11.7/5

# 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: 22.852+/-0.011  $\chi^2$ /NDF:313.4/4

22.852+/-0.011  $\chi^2$ /NDF: 313.4/4

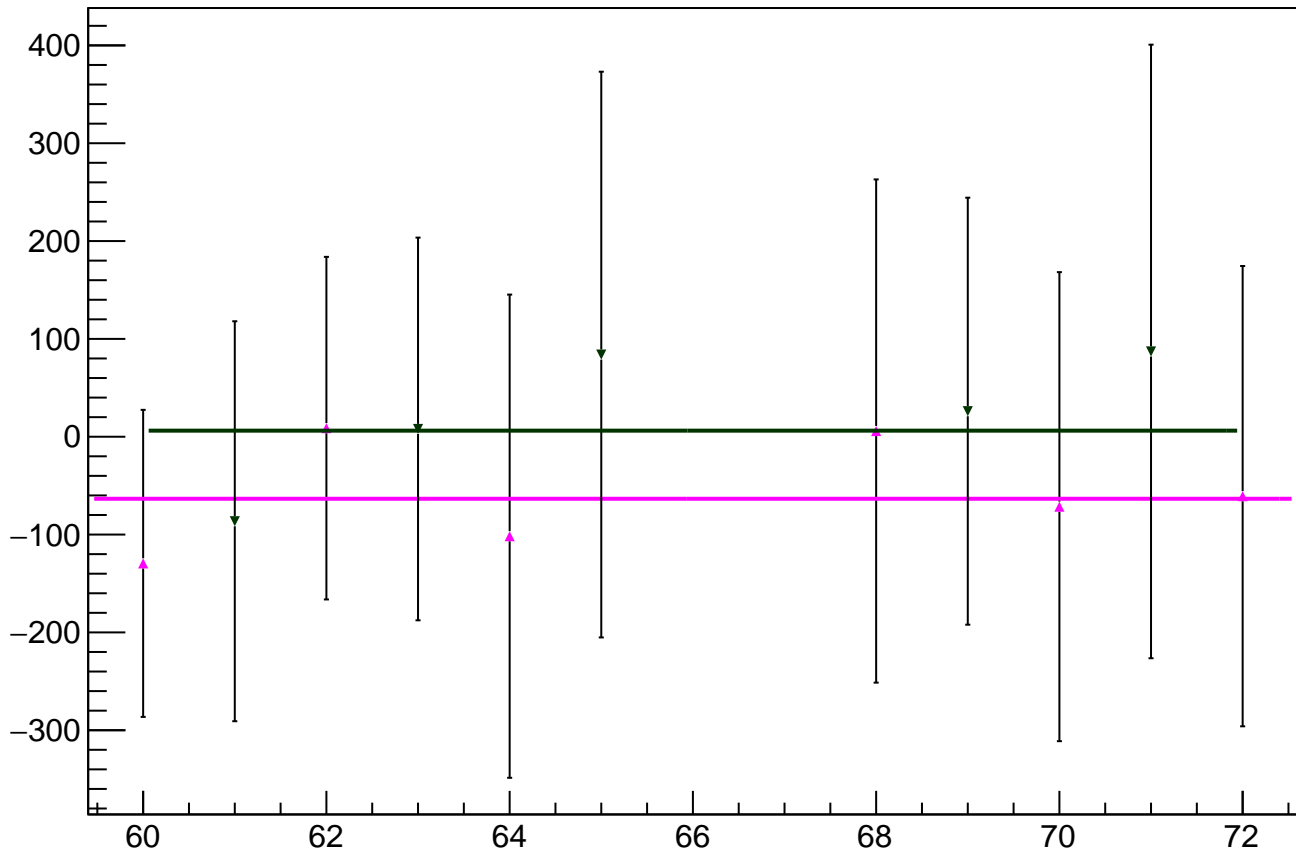
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

23.045+/-0.010  $\chi^2$ /NDF: 620.3/5

Left In: 23.045+/-0.010  $\chi^2$ /NDF:620.3/5



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: 6.219+/-103.582  $\chi^2/\text{NDF}$ : 0.4/4

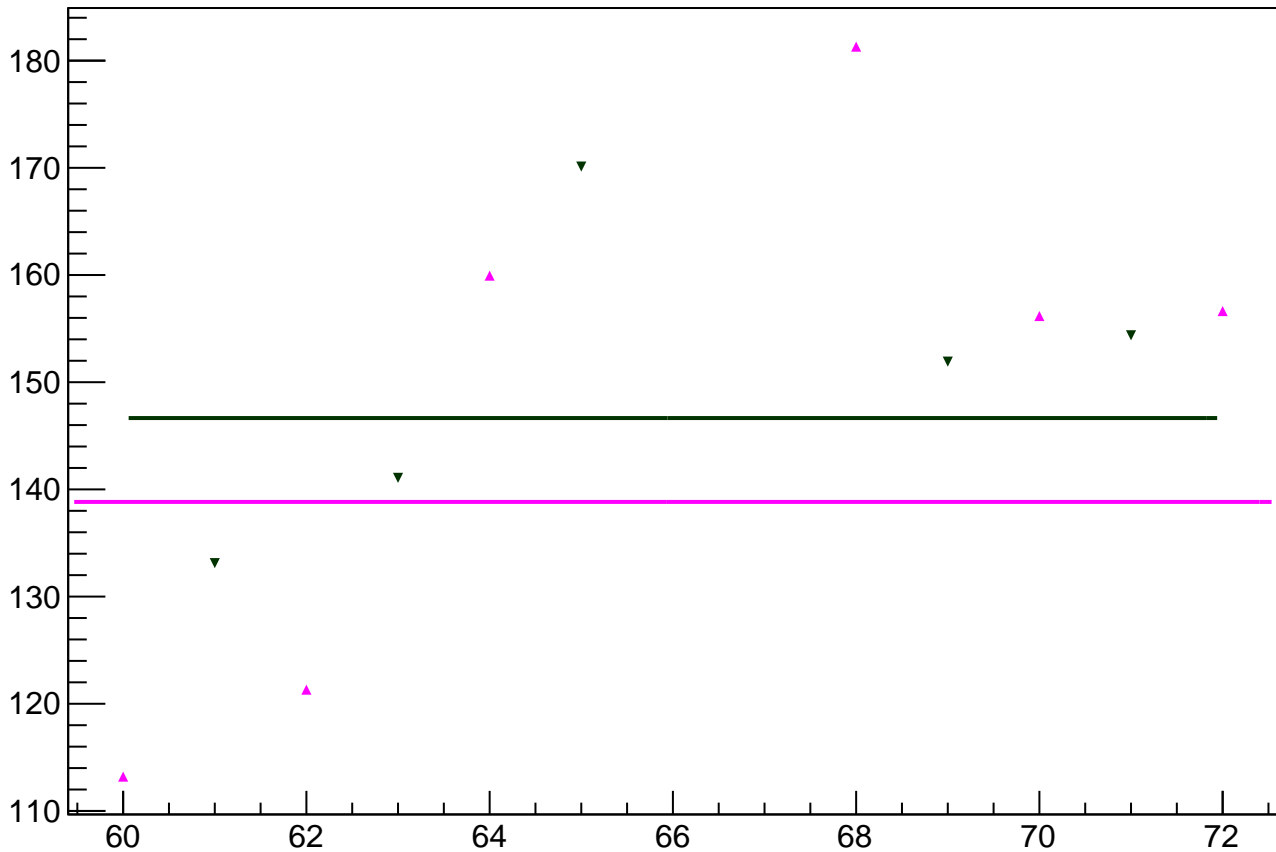
6.219+/-103.582  $\chi^2/\text{NDF}$ : 0.4/4

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

-63.409+/-84.450  $\chi^2/\text{NDF}$ : 0.4/5

Left In: -63.409+/-84.450  $\chi^2/\text{NDF}$ : 0.4/5

# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



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

Left Out: 146.655+/-0.073  $\chi^2/\text{NDF}$ : 25941.0/4

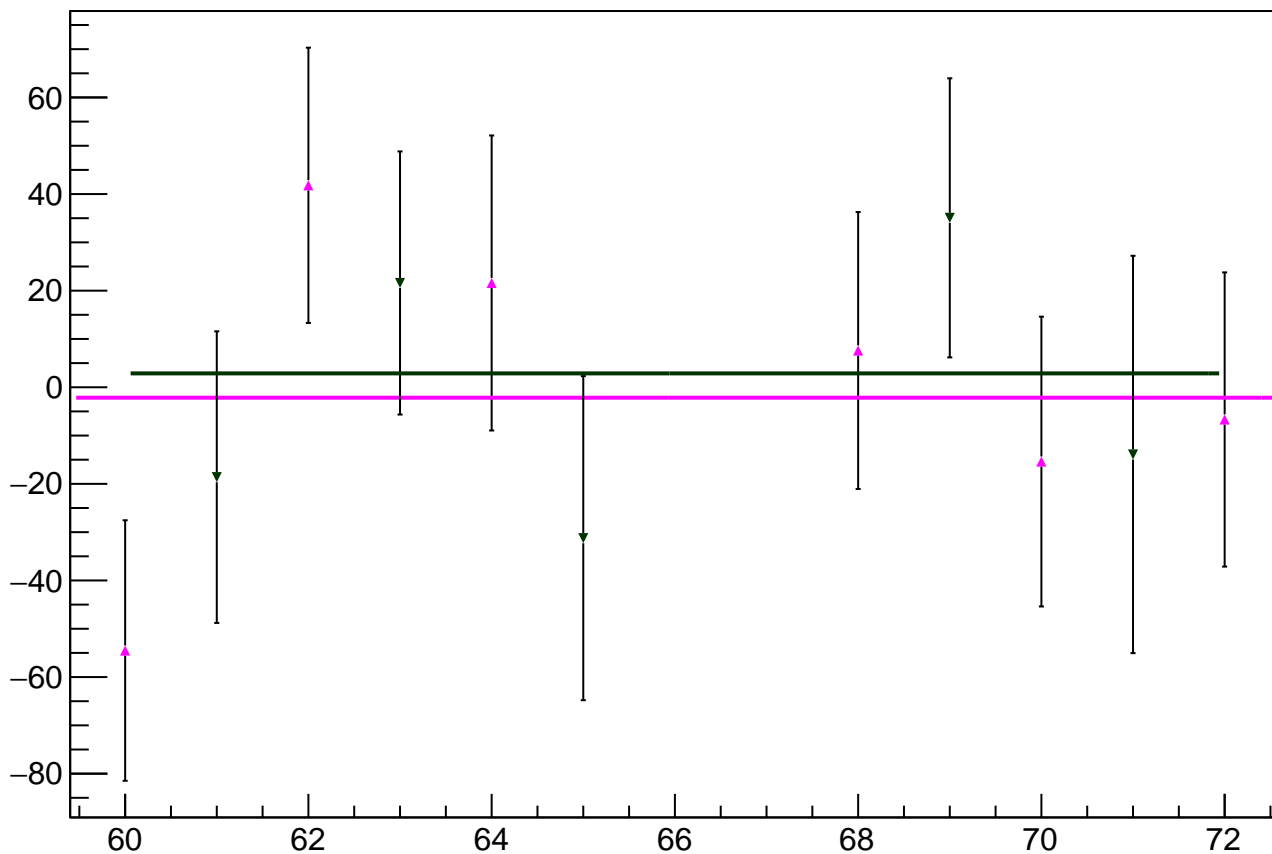
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 138.831+/-0.060  $\chi^2/\text{NDF}$ : 164448.9/5

146.655+/-0.073  $\chi^2/\text{NDF}$ : 25941.0/4

138.831+/-0.060  $\chi^2/\text{NDF}$ : 164448.9/5

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



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

Left Out: 2.872+/-13.972  $\chi^2/\text{NDF}$ : 3.4/4

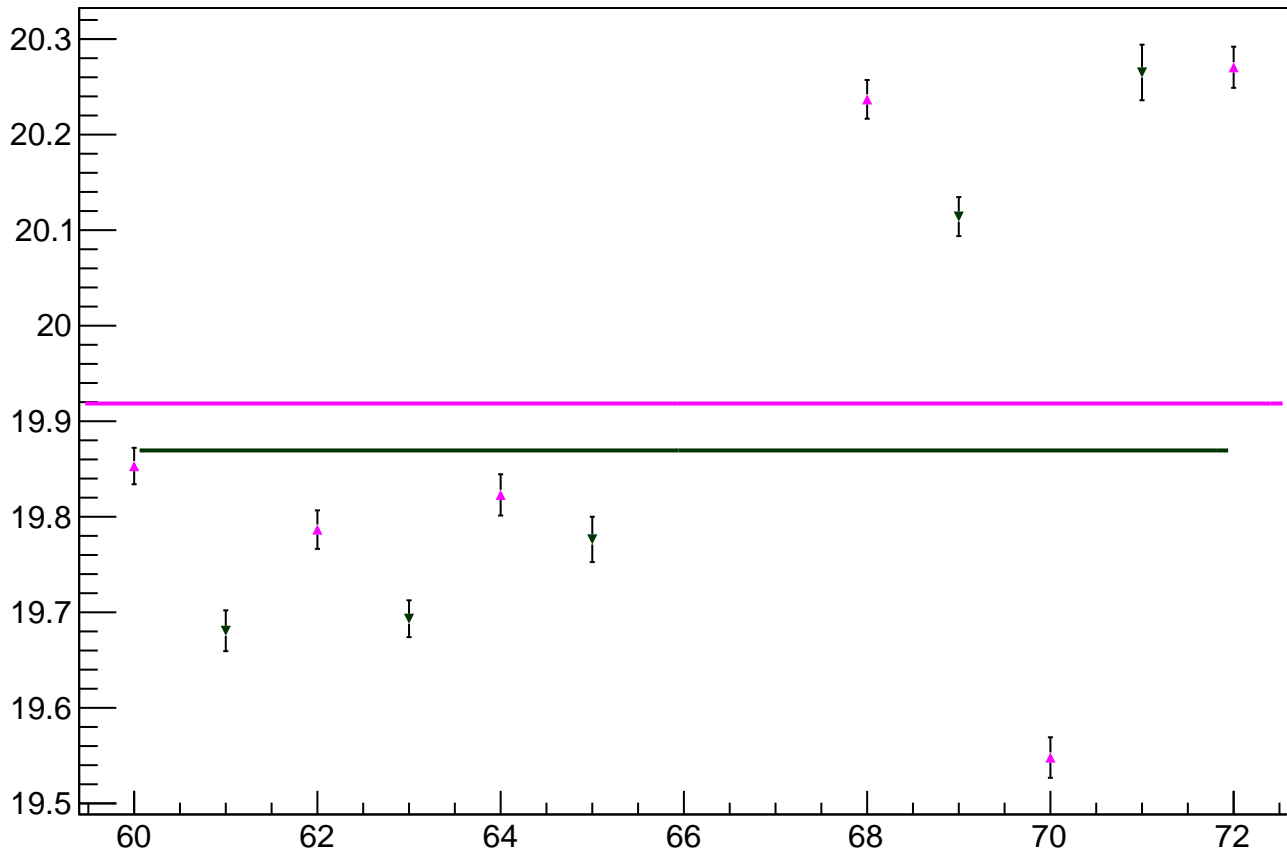
2.872+/-13.972  $\chi^2/\text{NDF}$ : 3.4/4

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

-2.163+/-11.881  $\chi^2/\text{NDF}$ : 7.1/5

Left In: -2.163+/-11.881  $\chi^2/\text{NDF}$ : 7.1/5

# 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: 19.869+/-0.010  $\chi^2$ /NDF:505.8/4

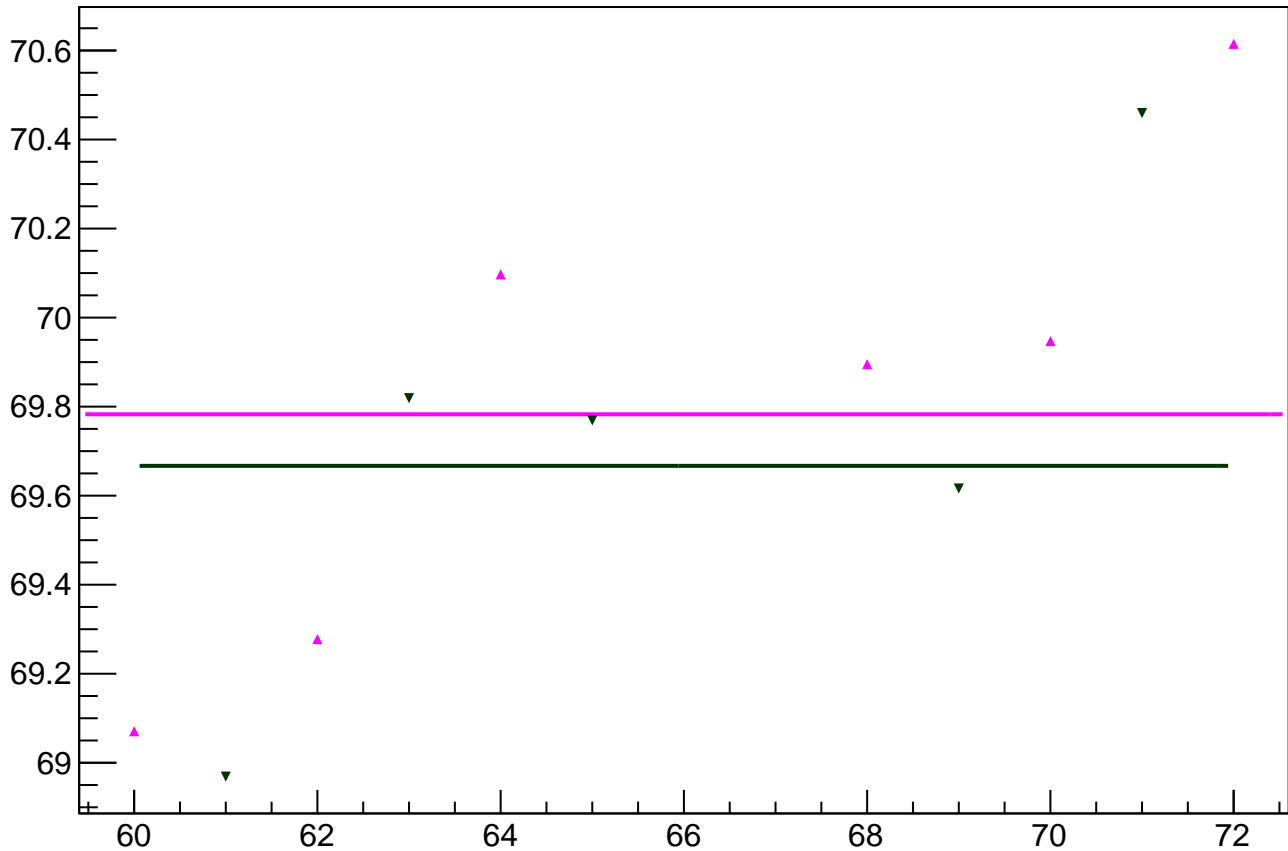
19.869+/-0.010  $\chi^2$ /NDF: 505.8/4

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

19.919+/-0.008  $\chi^2$ /NDF: 893.0/5

Left In: 19.919+/-0.008  $\chi^2$ /NDF:893.0/5

# yield\_bcm\_an\_ds\_mean vs slug



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

Left Out: 69.667+/-0.000  $\chi^2/\text{NDF}$ : 6453885.8/4

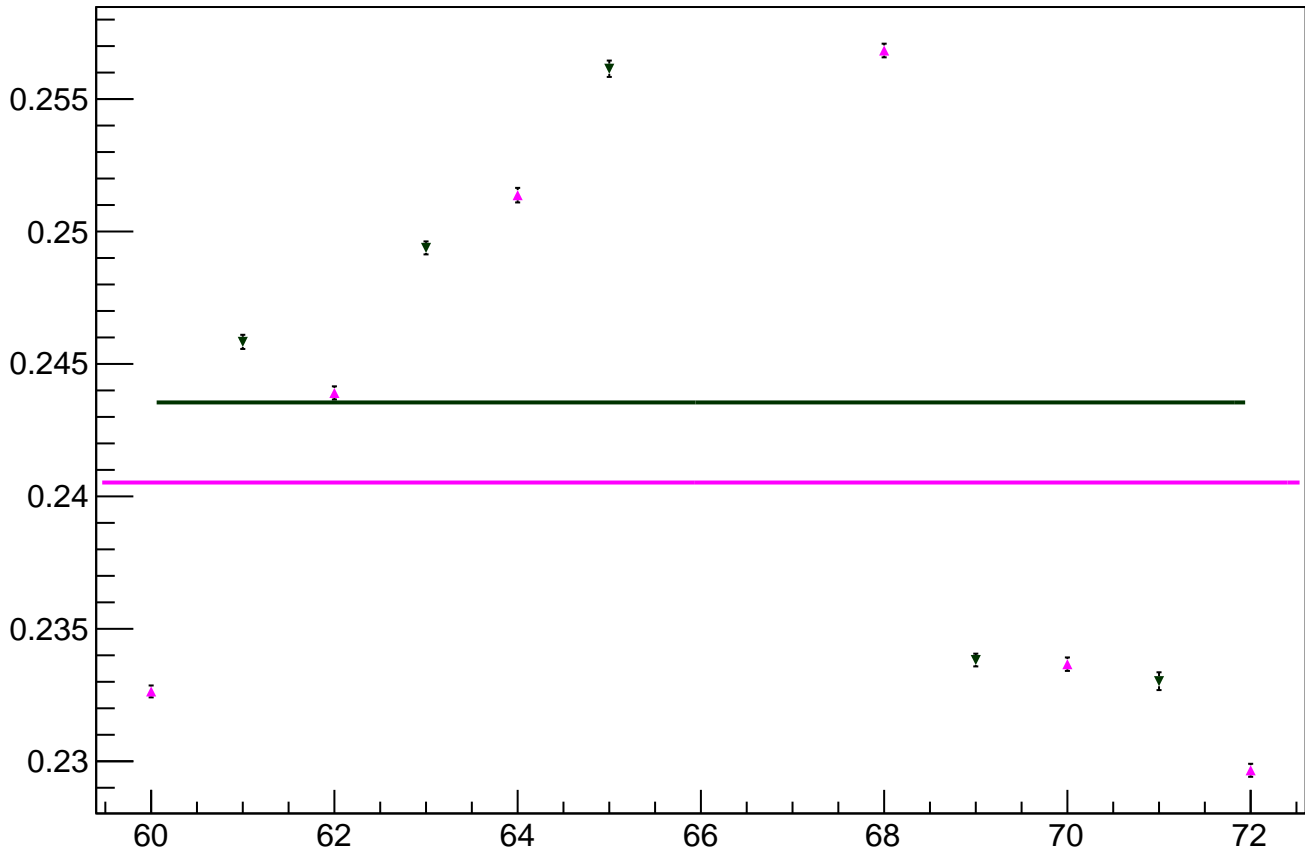
69.667+/-0.000  $\chi^2/\text{NDF}$ : 6453885.8/4

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

69.783+/-0.000  $\chi^2/\text{NDF}$ : 13761856.4/5

Left In: 69.783+/-0.000  $\chi^2/\text{NDF}$ : 13761856.4/5

# yield\_bcm\_an\_ds\_rms vs slug



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

Left Out: 0.244+/-0.000  $\chi^2/\text{NDF}$ : 4914.2/4

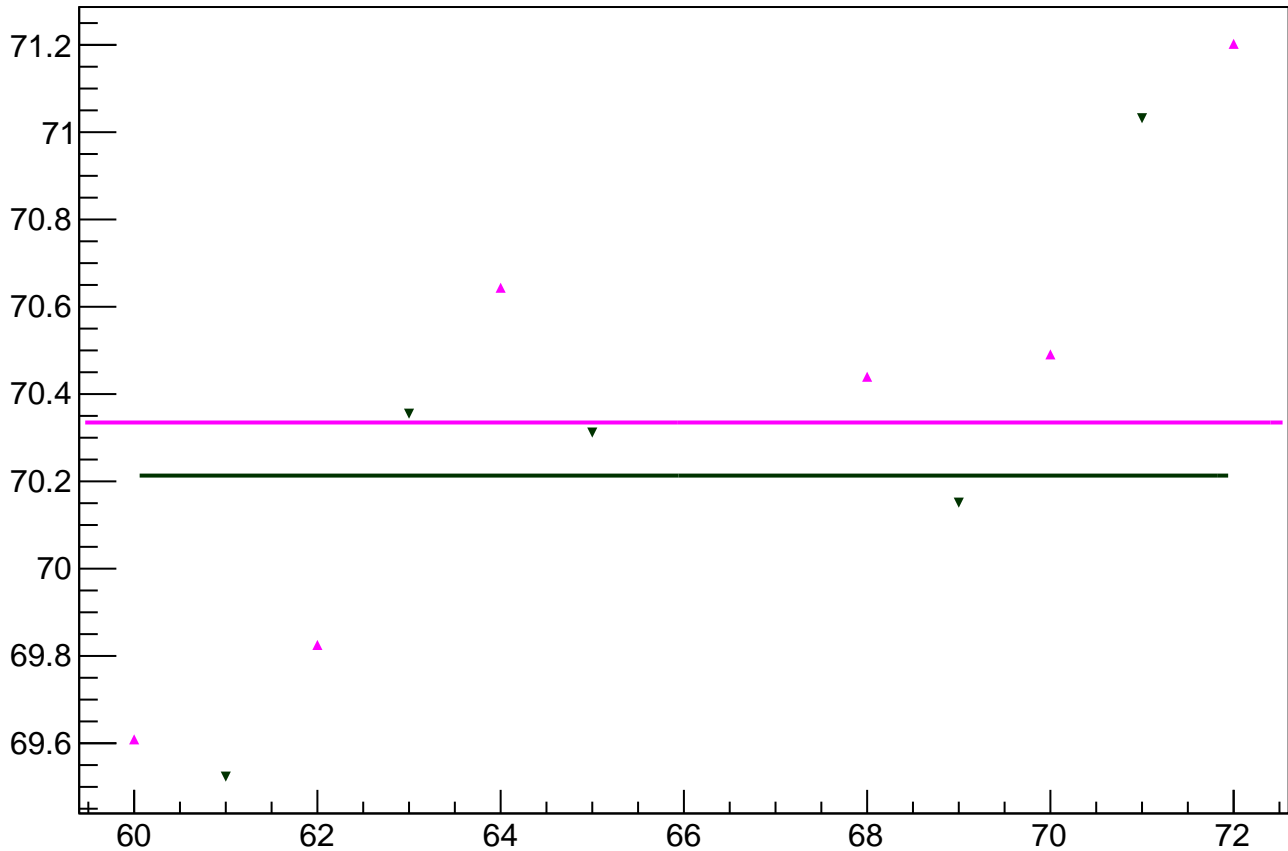
0.244+/-0.000  $\chi^2/\text{NDF}$ : 4914.2/4

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

0.241+/-0.000  $\chi^2/\text{NDF}$ : 9640.7/5

Left In: 0.241+/-0.000  $\chi^2/\text{NDF}$ : 9640.7/5

# yield\_bcm\_an\_ds3\_mean vs slug



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

Left Out: 70.213+/-0.000  $\chi^2/\text{NDF}$ : 6218758.5/4

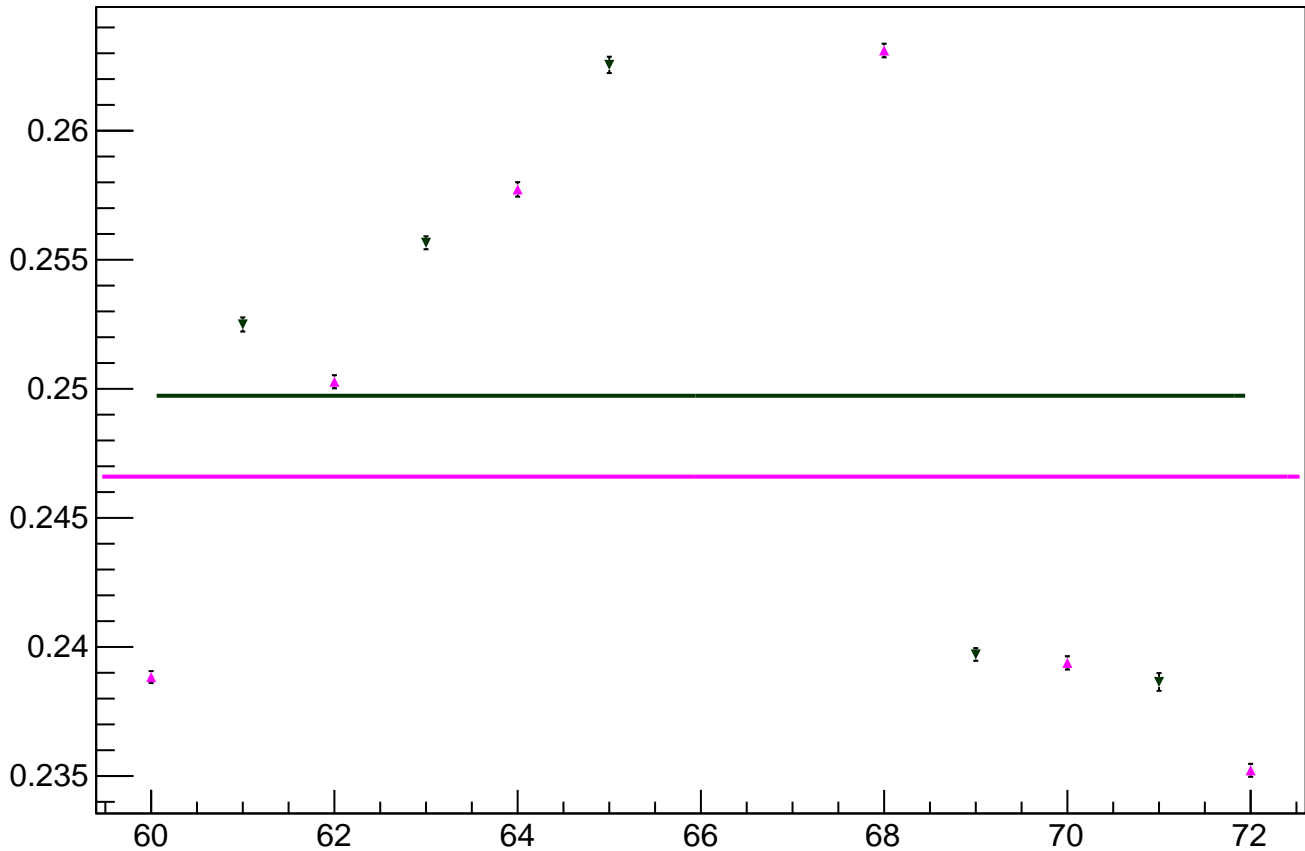
70.213+/-0.000  $\chi^2/\text{NDF}$ : 6218758.5/4

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

70.335+/-0.000  $\chi^2/\text{NDF}$ : 13733496.9/5

Left In: 70.335+/-0.000  $\chi^2/\text{NDF}$ : 13733496.9/5

# yield\_bcm\_an\_ds3\_rms vs slug



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

Left Out: 0.250+/-0.000  $\chi^2/\text{NDF}$ : 4982.3/4

0.250+/-0.000  $\chi^2/\text{NDF}$ : 4982.3/4

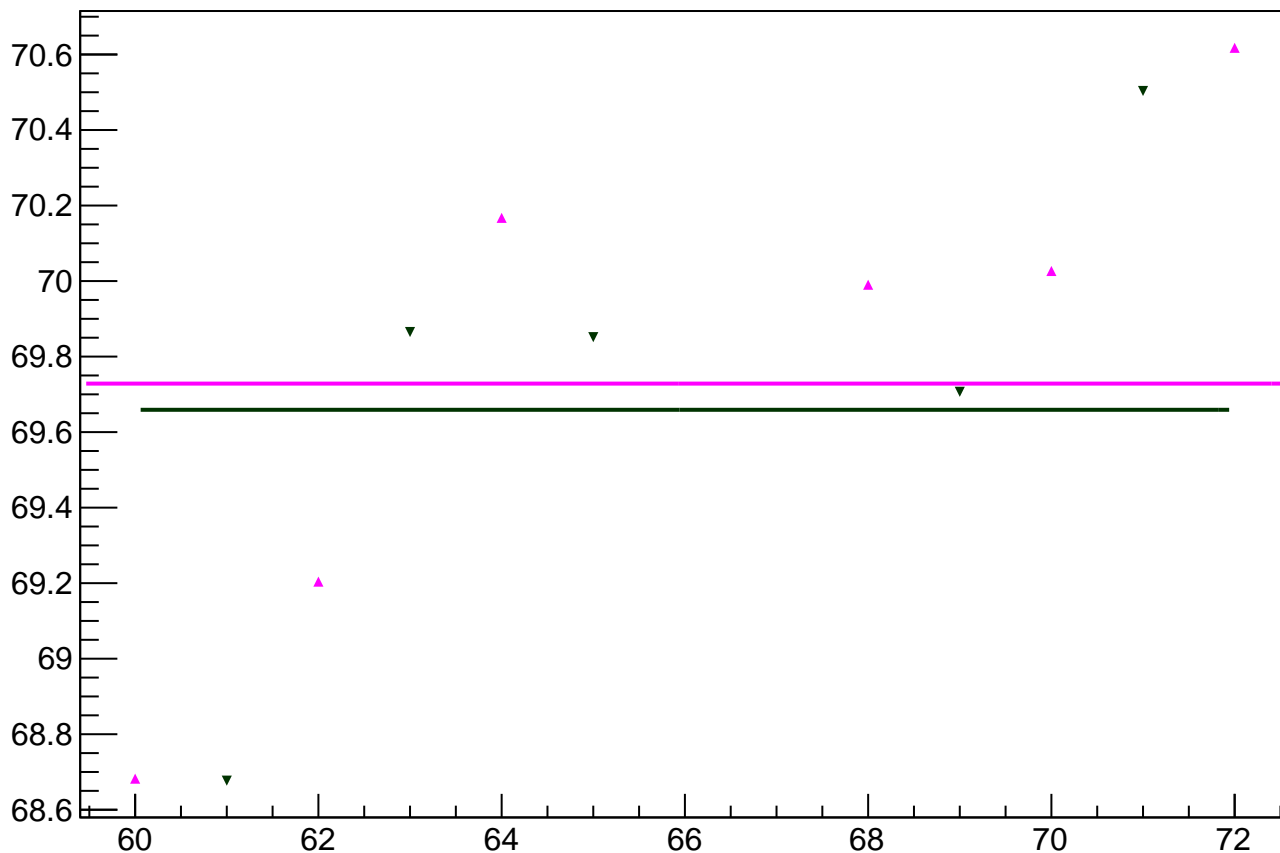
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.247+/-0.000  $\chi^2/\text{NDF}$ : 9600.5/5

Left In: 0.247+/-0.000  $\chi^2/\text{NDF}$ : 9600.5/5



# yield\_bcm\_an\_us\_mean vs slug



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

Left Out: 69.659+/-0.000  $\chi^2/\text{NDF}$ :10458913.5/4

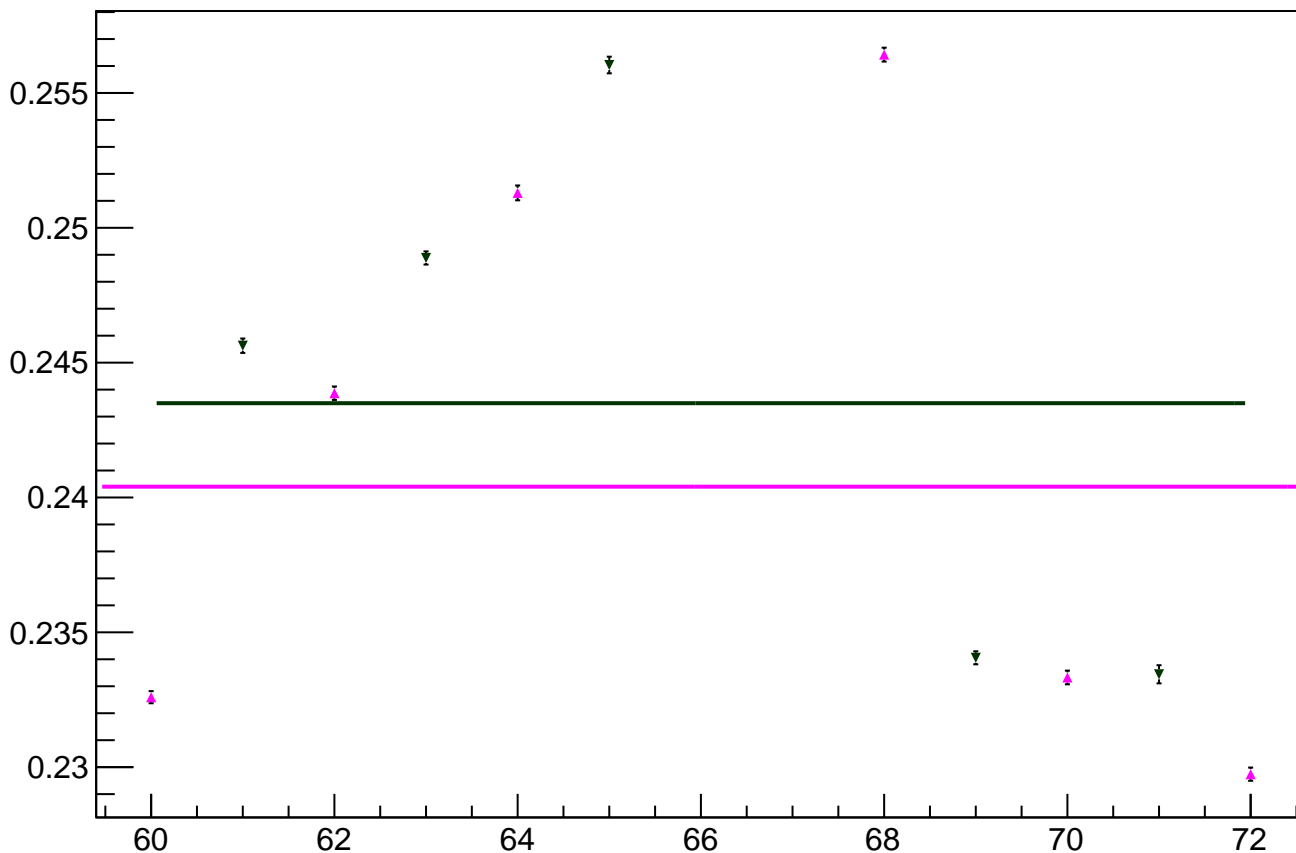
69.659+/-0.000  $\chi^2/\text{NDF}$ : 10458913.5/4

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

69.728+/-0.000  $\chi^2/\text{NDF}$ : 22050933.6/5

Left In: 69.728+/-0.000  $\chi^2/\text{NDF}$ :22050933.6/5

# yield\_bcm\_an\_us\_rms vs slug



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

Left Out: 0.243+/-0.000  $\chi^2/\text{NDF}$ : 4624.1/4

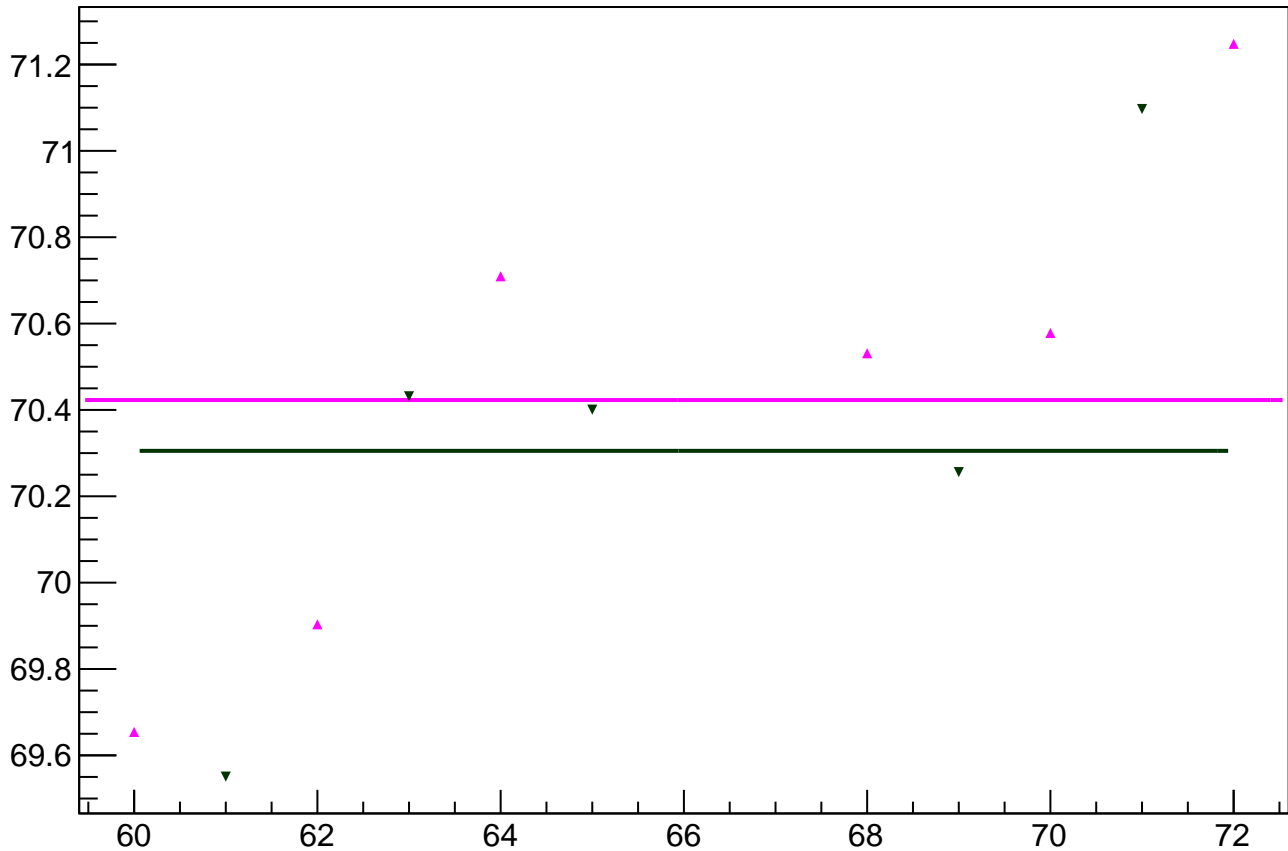
0.243+/-0.000  $\chi^2/\text{NDF}$ : 4624.1/4

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

0.240+/-0.000  $\chi^2/\text{NDF}$ : 9485.1/5

Left In: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 9485.1/5

# yield\_bcm\_dg\_us\_mean vs slug



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

Left Out: 70.305+/-0.000  $\chi^2$ /NDF:6676124.1/4

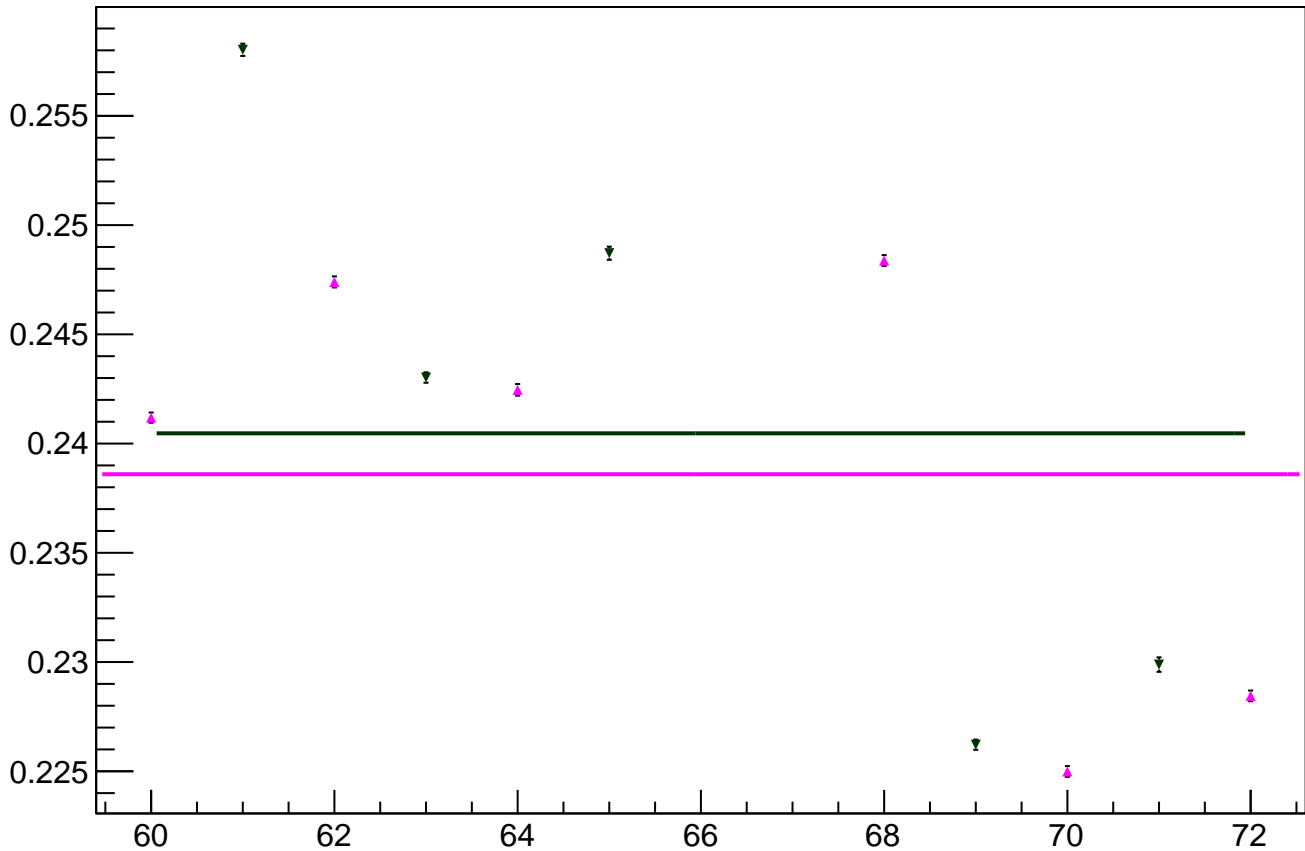
70.305+/-0.000  $\chi^2$ /NDF: 6676124.1/4

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

70.423+/-0.000  $\chi^2$ /NDF: 14119275.7/5

Left In: 70.423+/-0.000  $\chi^2$ /NDF:14119275.7/5

# yield\_bcm\_dg\_us\_rms vs slug



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

Left Out: 0.240+/-0.000  $\chi^2/\text{NDF}$ : 9543.7/4

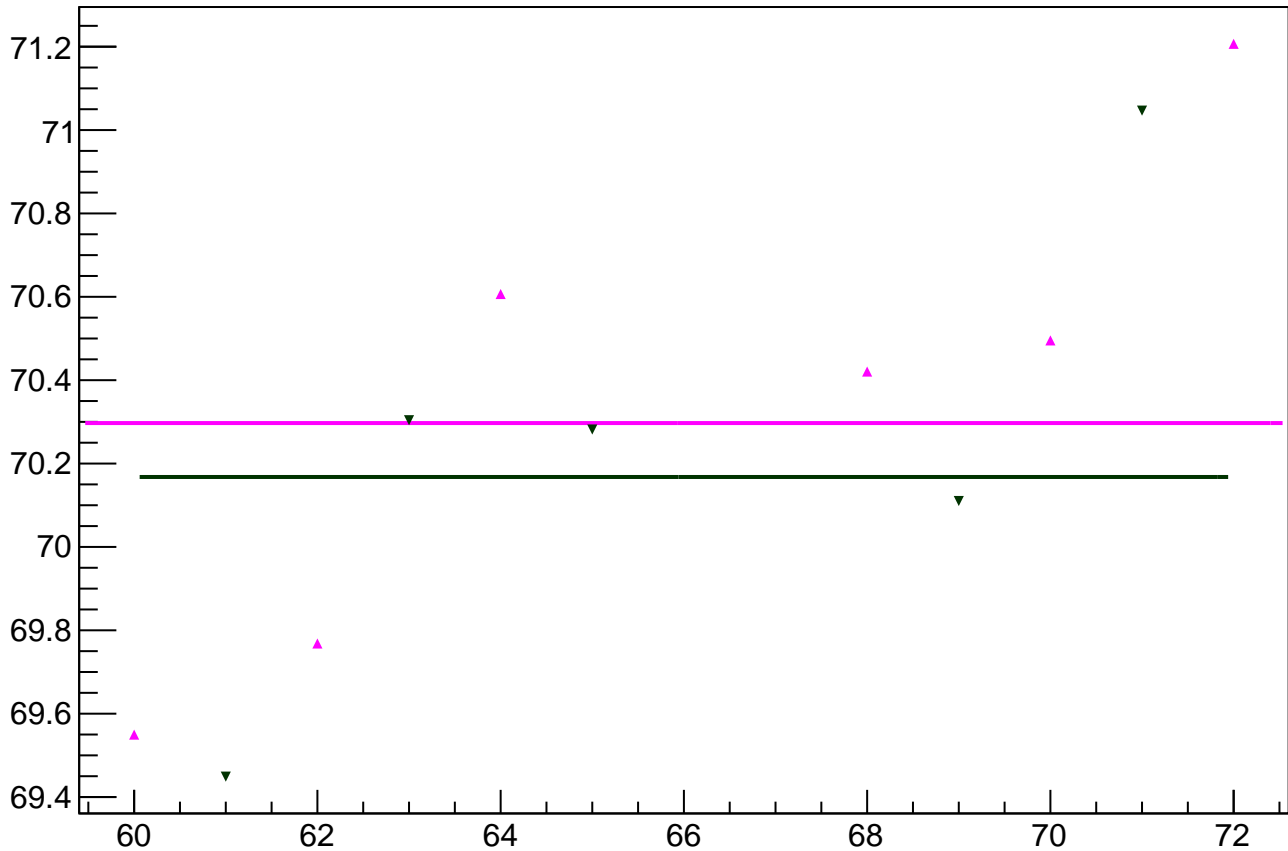
0.240+/-0.000  $\chi^2/\text{NDF}$ : 9543.7/4

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

0.239+/-0.000  $\chi^2/\text{NDF}$ : 7893.1/5

Left In: 0.239+/-0.000  $\chi^2/\text{NDF}$ : 7893.1/5

# yield\_bcm\_dg\_ds\_mean vs slug



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

Left Out: 70.168+/-0.000  $\chi^2/\text{NDF}$ : 7015623.1/4

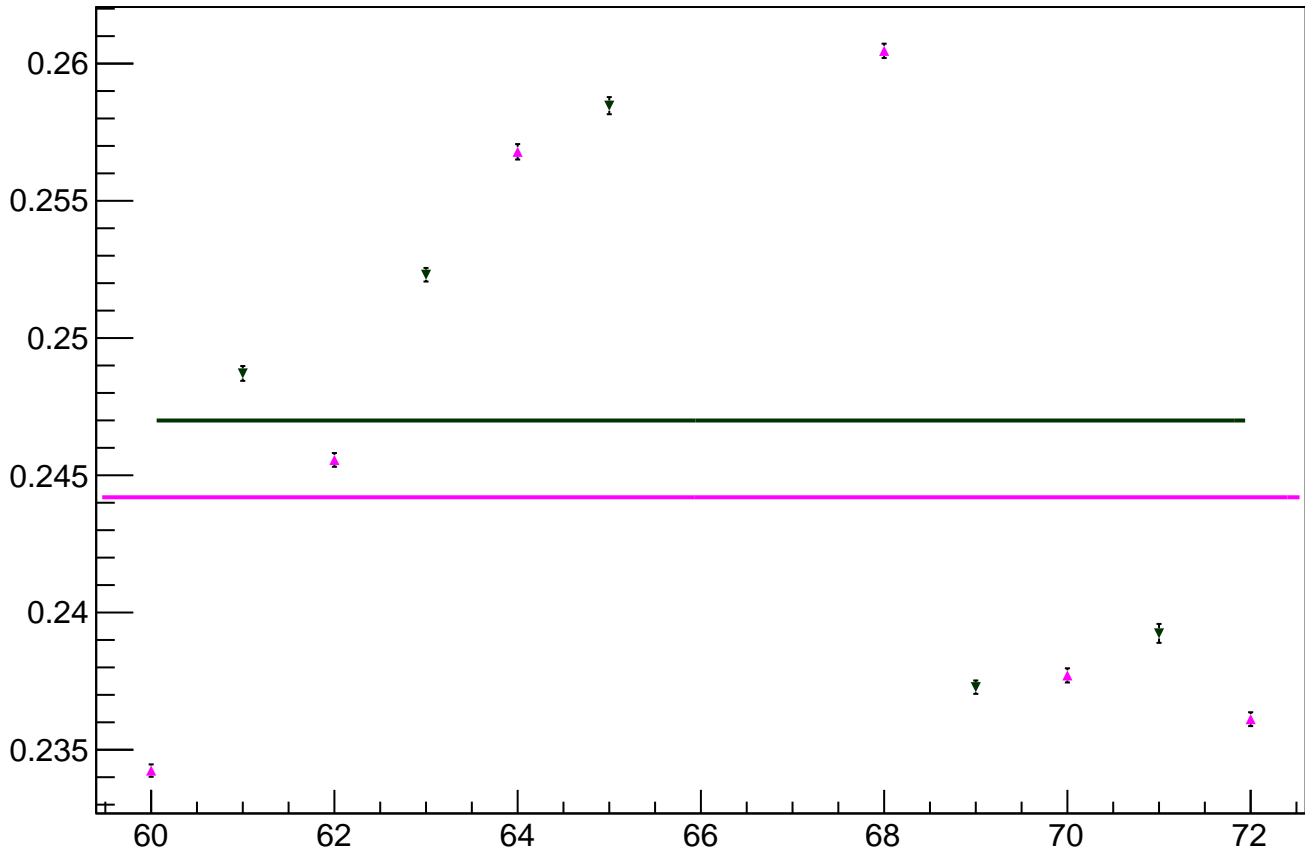
70.168+/-0.000  $\chi^2/\text{NDF}$ : 7015623.1/4

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

70.297+/-0.000  $\chi^2/\text{NDF}$ : 15168441.1/5

Left In: 70.297+/-0.000  $\chi^2/\text{NDF}$ : 15168441.1/5

# yield\_bcm\_dg\_ds\_rms vs slug



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

Left Out: 0.247+/-0.000  $\chi^2/\text{NDF}$ : 3936.8/4

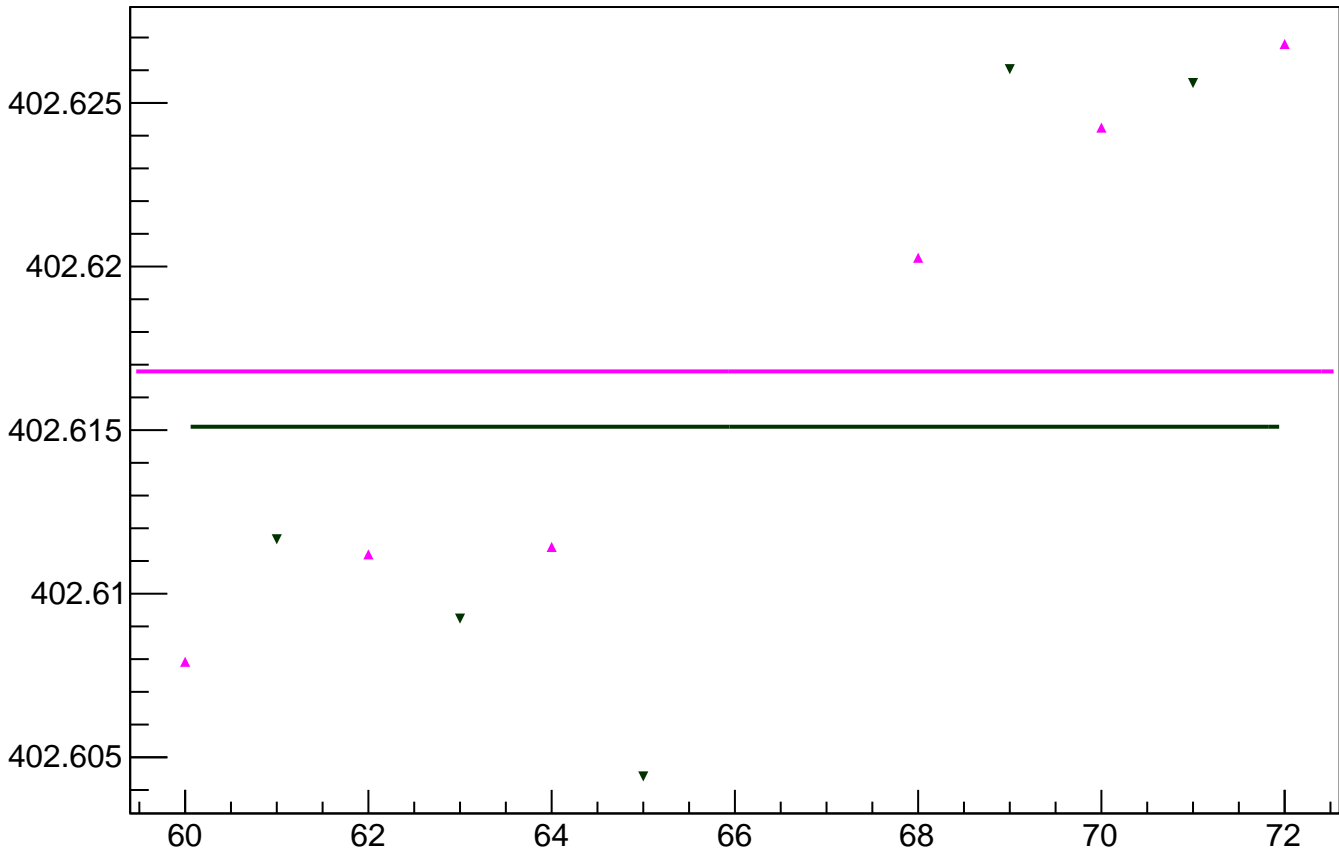
0.247+/-0.000  $\chi^2/\text{NDF}$ : 3936.8/4

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

0.244+/-0.000  $\chi^2/\text{NDF}$ : 9476.7/5

Left In: 0.244+/-0.000  $\chi^2/\text{NDF}$ : 9476.7/5

# yield\_cav4bQ\_mean vs slug



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

Left Out: 402.615+/-0.000  $\chi^2/\text{NDF}$ : 3492680.8/4

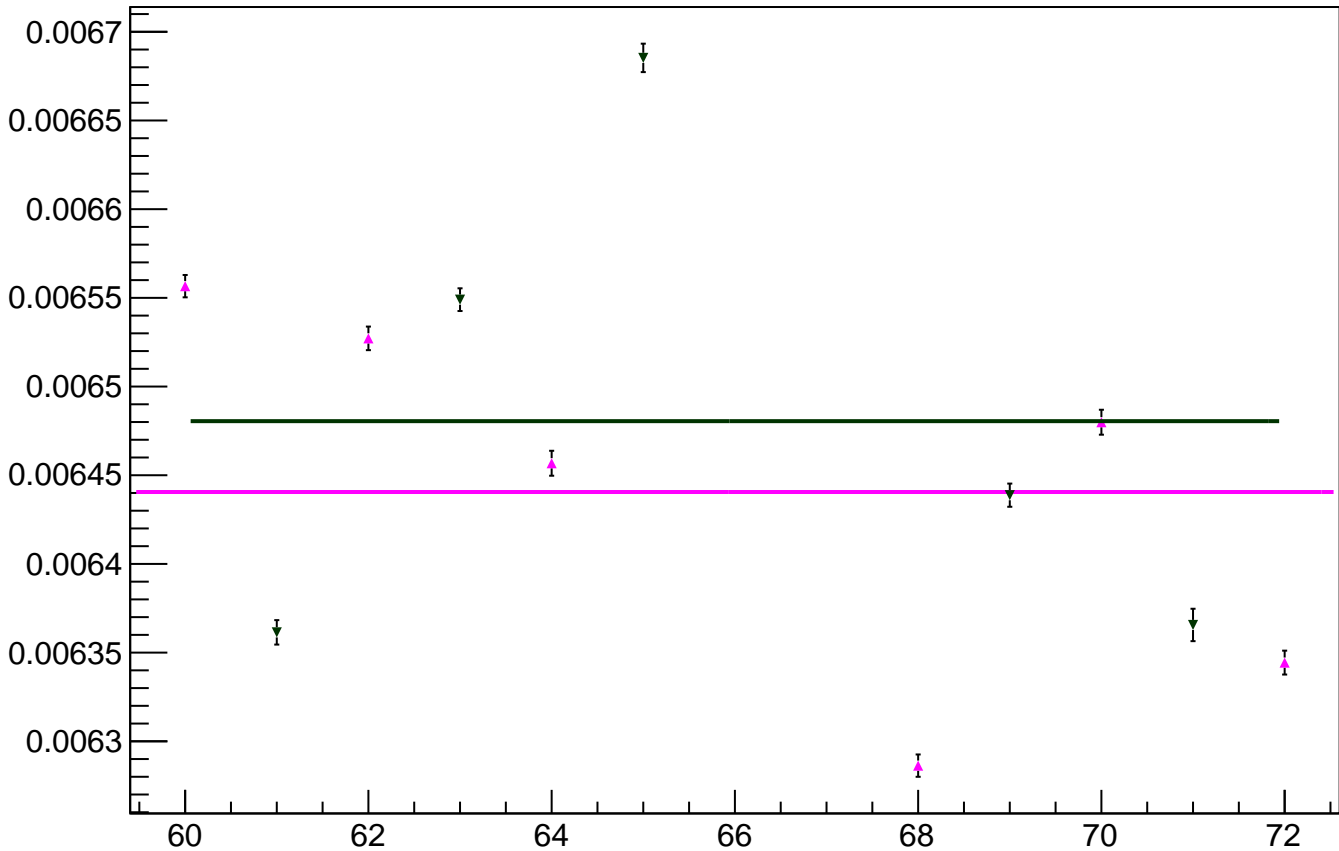
402.615+/-0.000  $\chi^2/\text{NDF}$ : 3492680.8/4

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

402.617+/-0.000  $\chi^2/\text{NDF}$ : 3455896.1/5

Left In: 402.617+/-0.000  $\chi^2/\text{NDF}$ : 3455896.1/5

# yield\_cav4bQ\_rms vs slug



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

Left Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ :1264.5/4

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

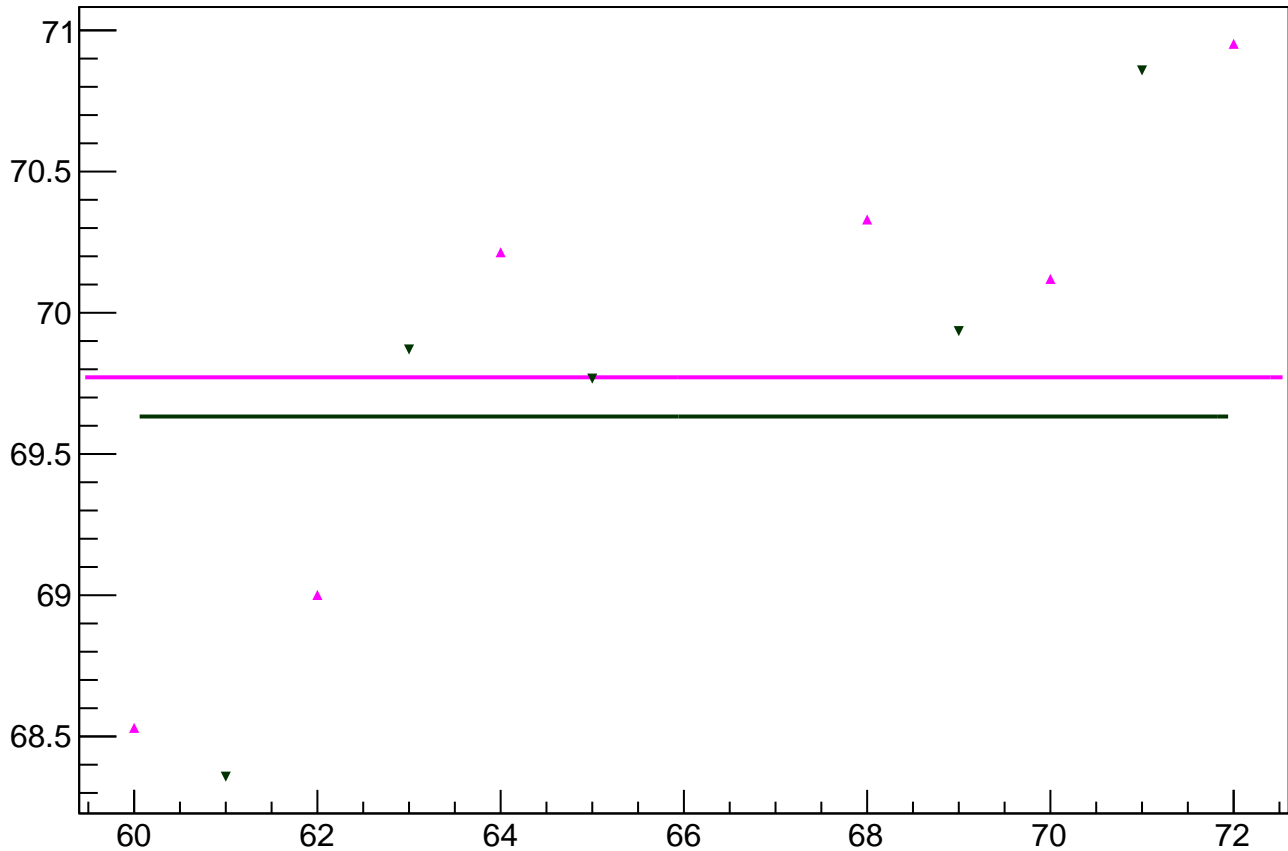
Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :1350.6/5

0.006+/-0.000  $\chi^2/\text{NDF}$ : 1264.5/4

0.006+/-0.000  $\chi^2/\text{NDF}$ : 1350.6/5



# yield\_cav4cQ\_mean vs slug



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

Left Out: 69.633+/-0.000  $\chi^2/\text{NDF}$ : 18003918.3/4

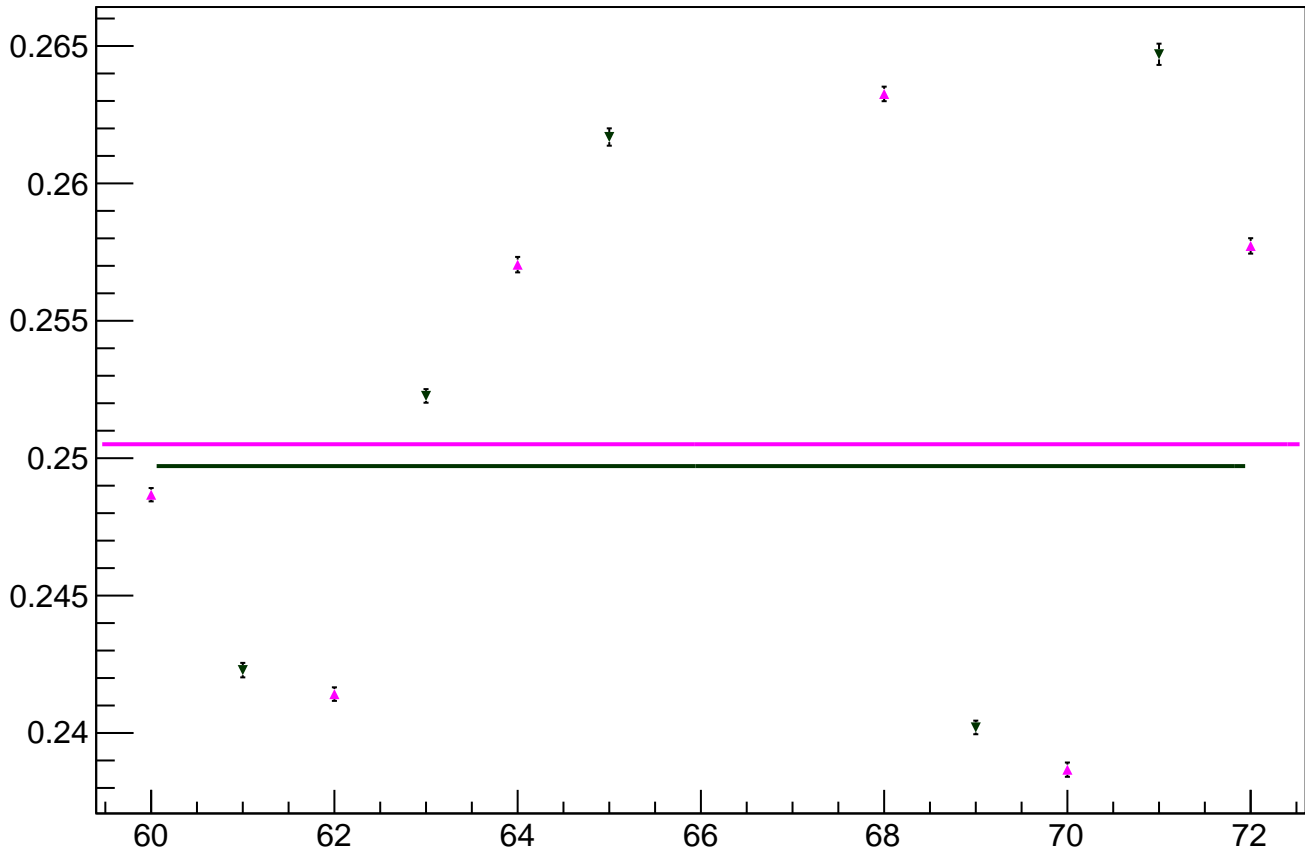
69.633+/-0.000  $\chi^2/\text{NDF}$ : 18003918.3/4

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

69.772+/-0.000  $\chi^2/\text{NDF}$ : 31141691.7/5

Left In: 69.772+/-0.000  $\chi^2/\text{NDF}$ : 31141691.7/5

# yield\_cav4cQ\_rms vs slug



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

Left Out: 0.250+/-0.000  $\chi^2/\text{NDF}$ : 5315.3/4

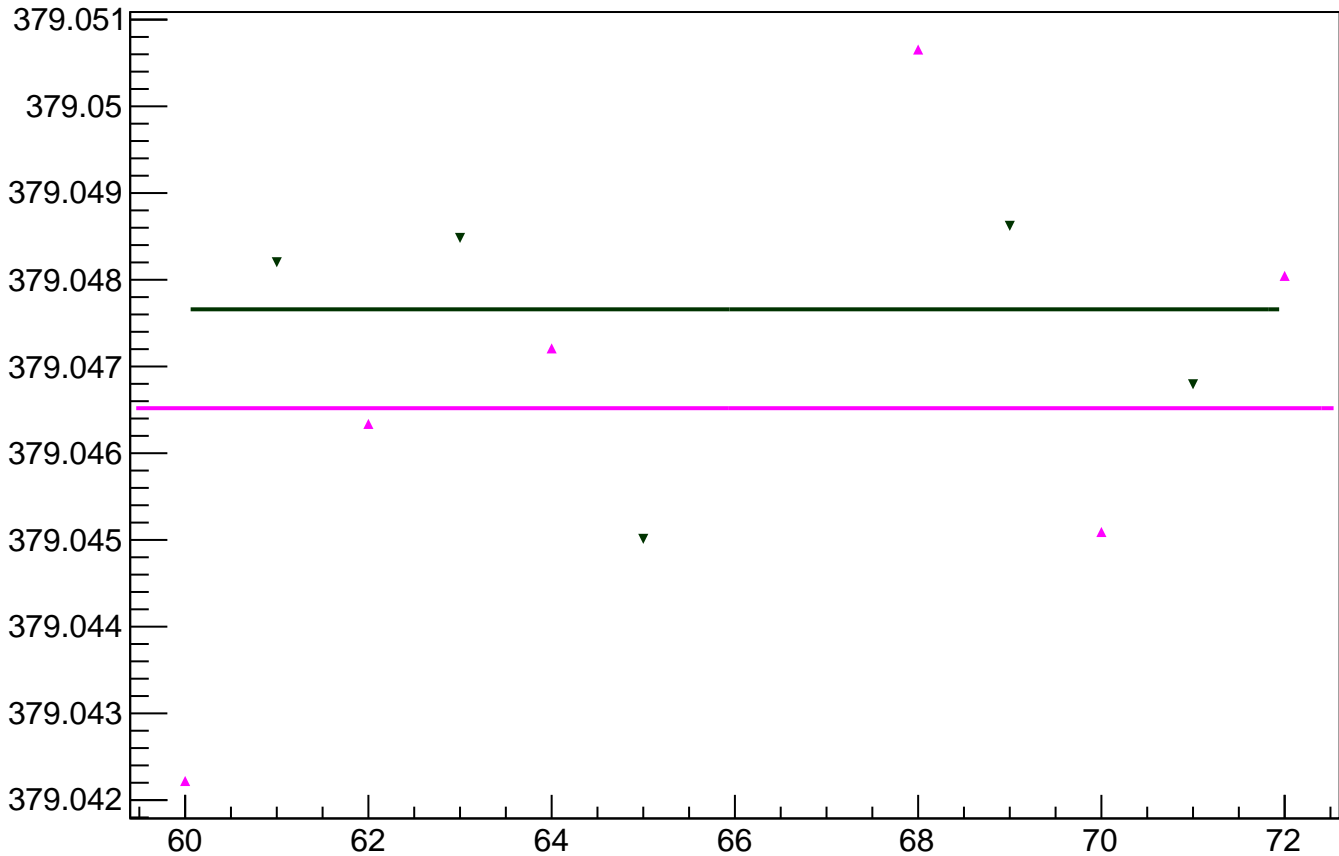
0.250+/-0.000  $\chi^2/\text{NDF}$ : 5315.3/4

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

0.251+/-0.000  $\chi^2/\text{NDF}$ : 7011.1/5

Left In: 0.251+/-0.000  $\chi^2/\text{NDF}$ : 7011.1/5

# yield\_cav4dQ\_mean vs slug



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

379.048+/-0.000  $\chi^2/\text{NDF}$ : 76948.1/4

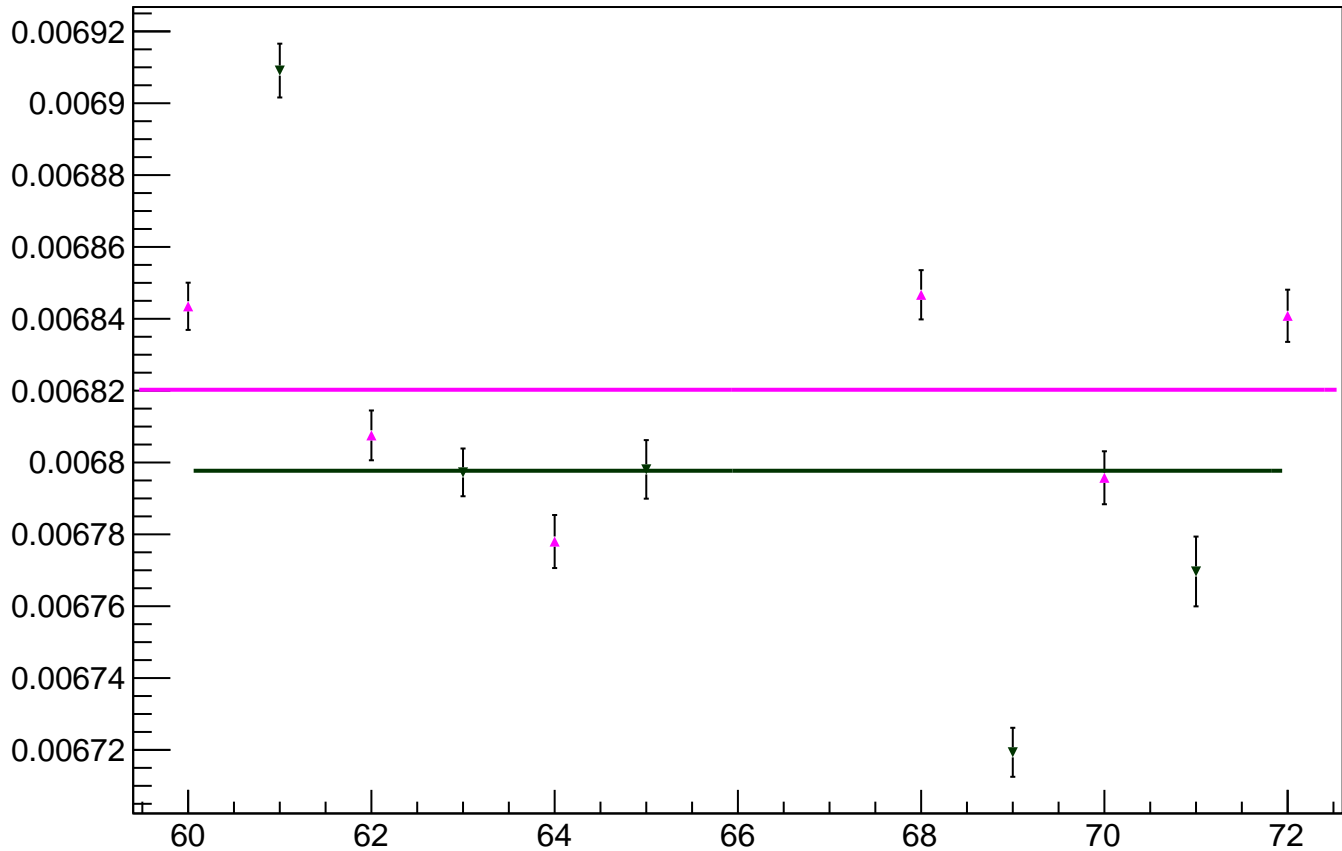
Left Out: 379.048+/-0.000  $\chi^2/\text{NDF}$ : 76948.1/4

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

379.047+/-0.000  $\chi^2/\text{NDF}$ : 441429.0/5

Left In: 379.047+/-0.000  $\chi^2/\text{NDF}$ : 441429.0/5

# 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:361.6/4

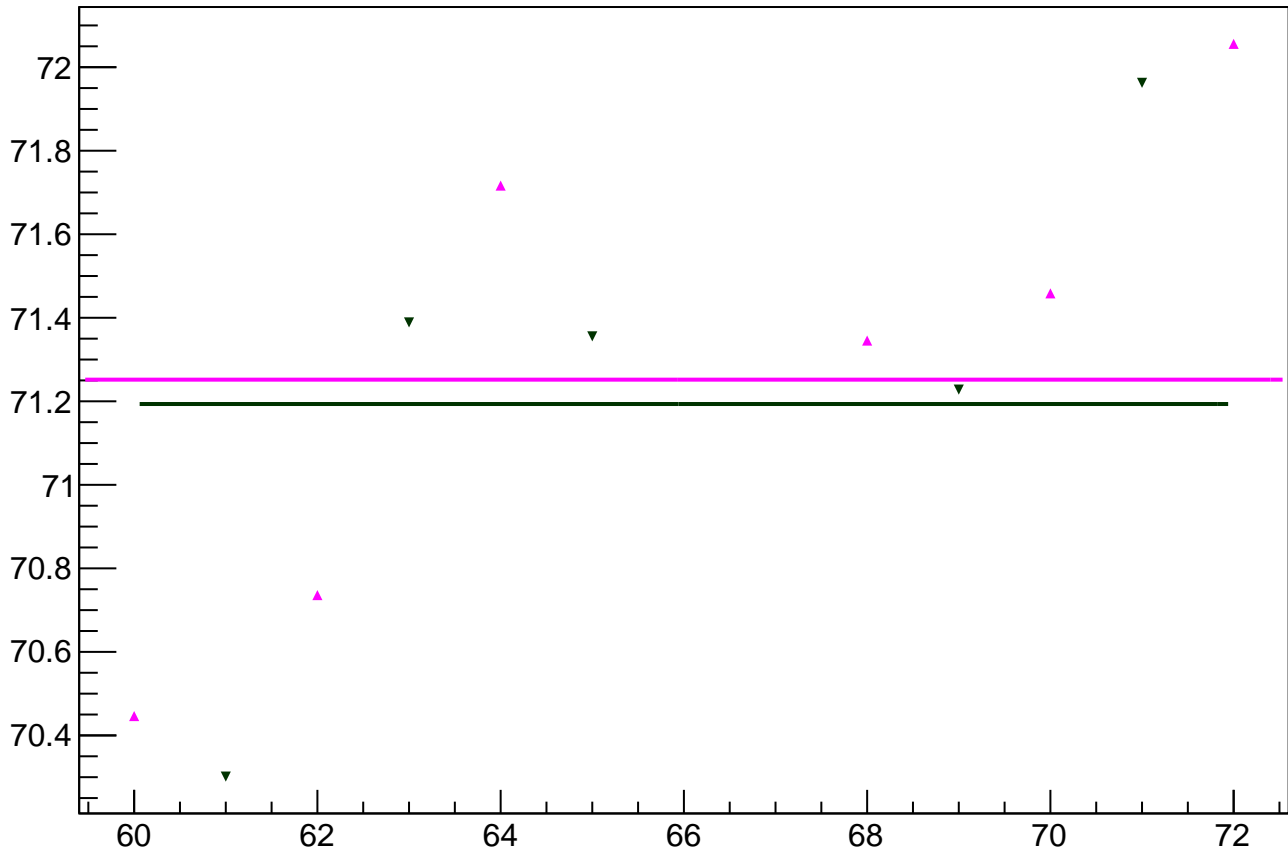
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.007+/-0.000  $\chi^2$ /NDF:82.5/5

0.007+/-0.000  $\chi^2$ /NDF: 361.6/4

0.007+/-0.000  $\chi^2$ /NDF: 82.5/5

# yield\_bcm0l02\_mean vs slug



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

Left Out: 71.194+/-0.000  $\chi^2/\text{NDF}$ : 5115857.2/4

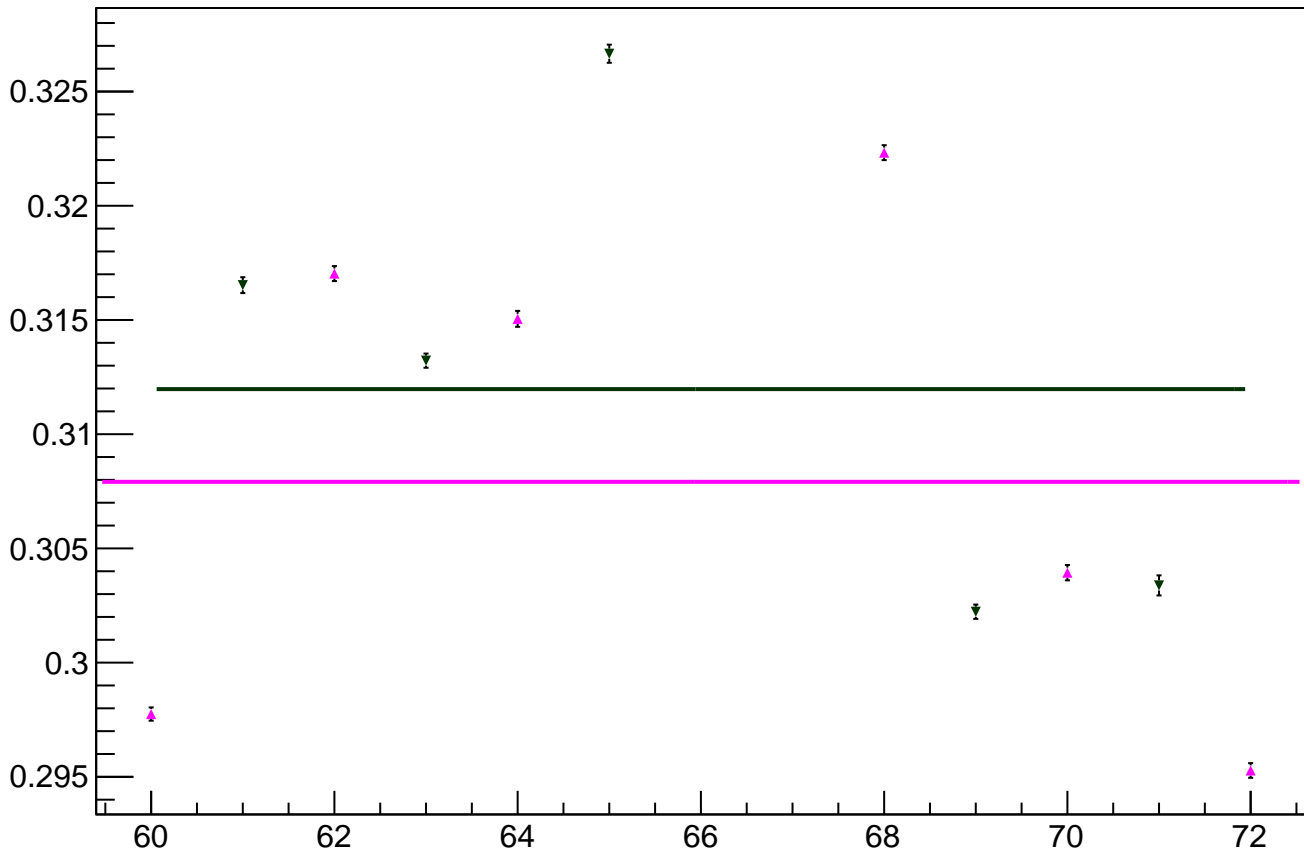
71.194+/-0.000  $\chi^2/\text{NDF}$ : 5115857.2/4

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

71.252+/-0.000  $\chi^2/\text{NDF}$ : 9328352.4/5

Left In: 71.252+/-0.000  $\chi^2/\text{NDF}$ : 9328352.4/5

# yield\_bcm0l02\_rms vs slug



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

Left Out: 0.312+/-0.000  $\chi^2/\text{NDF}$ : 2910.8/4

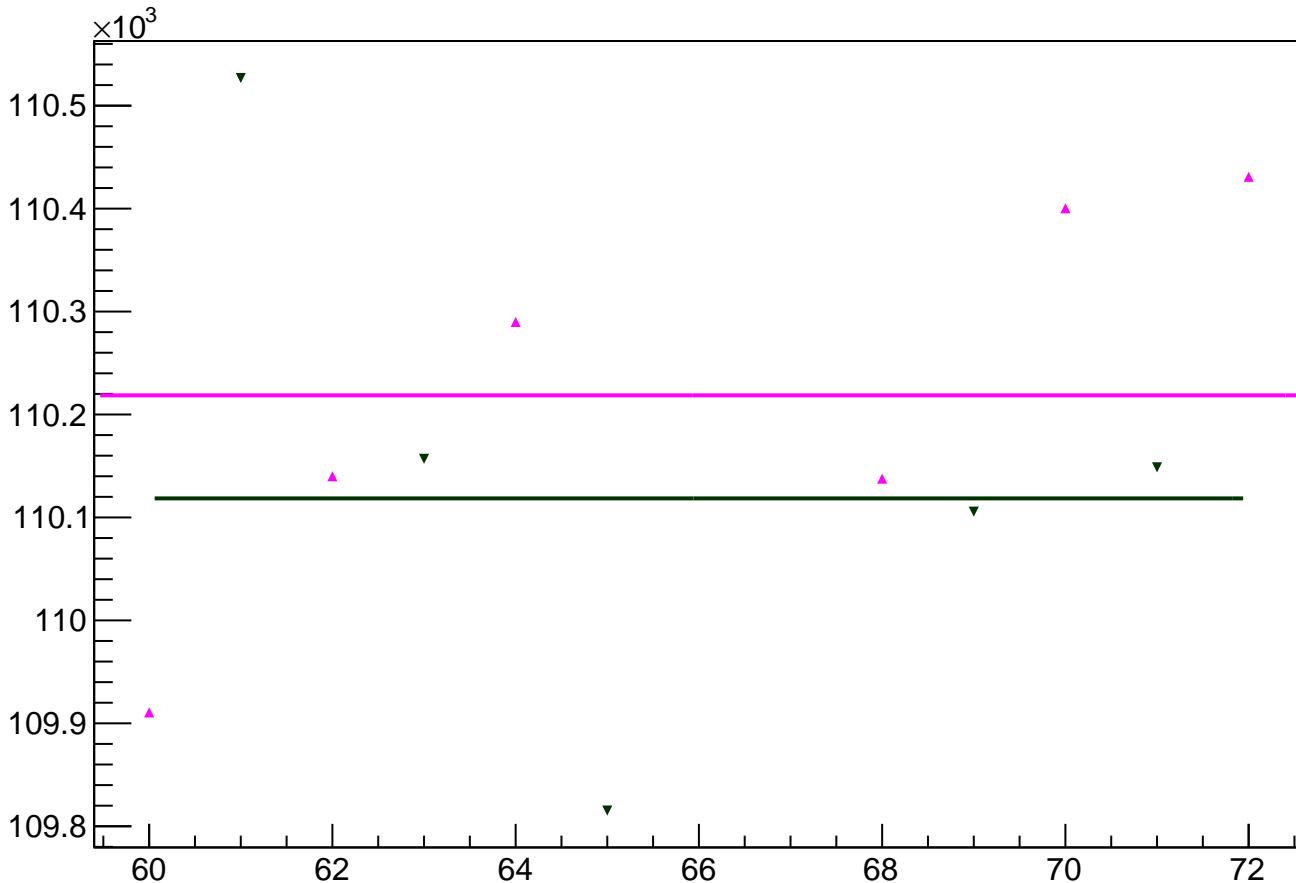
0.312+/-0.000  $\chi^2/\text{NDF}$ : 2910.8/4

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

0.308+/-0.000  $\chi^2/\text{NDF}$ : 6042.7/5

Left In: 0.308+/-0.000  $\chi^2/\text{NDF}$ : 6042.7/5

# yield\_bpm2i01WS\_mean vs slug



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

Left Out: 110118.500+/-0.101  $\chi^2$ /NDF:3319988.6/4

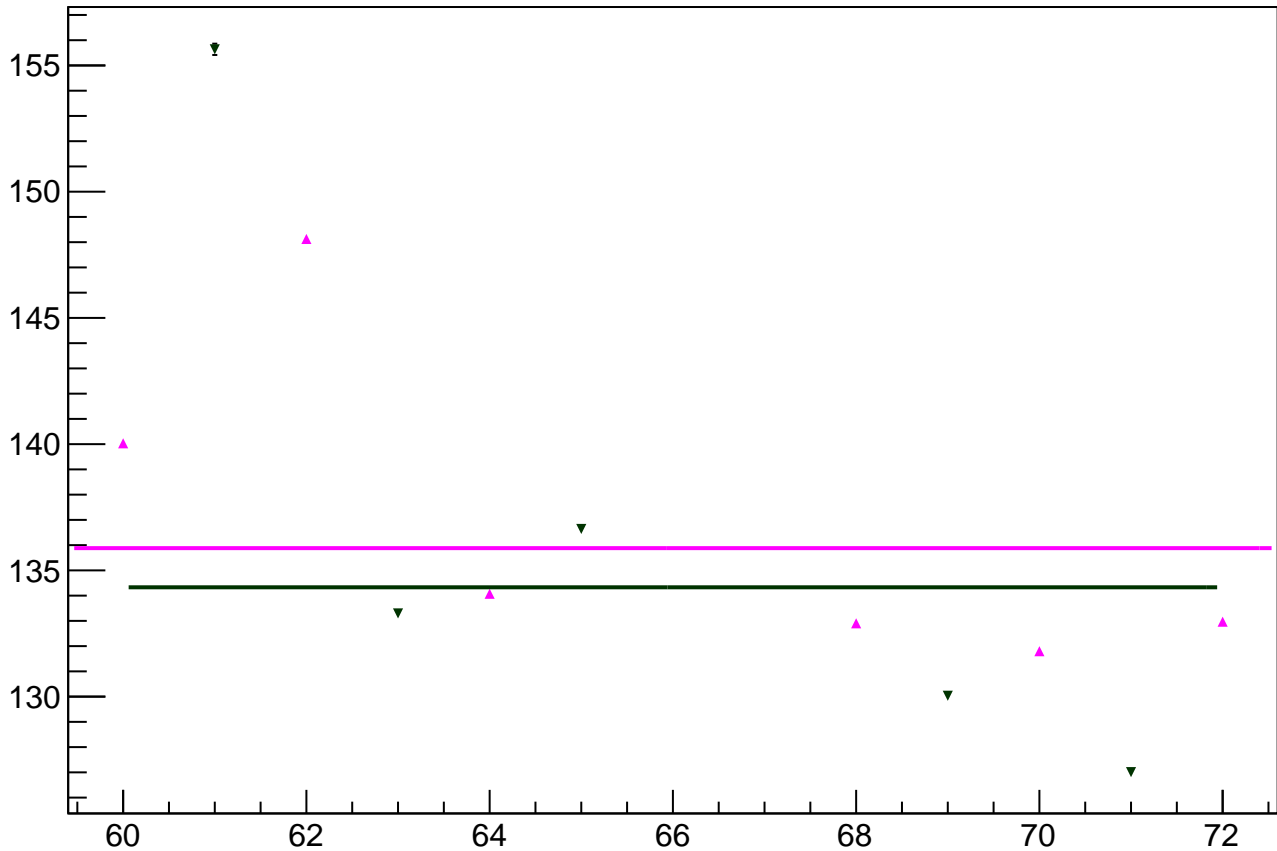
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 110218.616+/-0.085  $\chi^2$ /NDF:4606039.5/5

110118.500+/-0.101  $\chi^2$ /NDF: 3319988.6/4

110218.616+/-0.085  $\chi^2$ /NDF: 4606039.5/5

# yield\_bpm2i01WS\_rms vs slug



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

Left Out: 134.330+/-0.072  $\chi^2/\text{NDF}$ : 11885.3/4

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

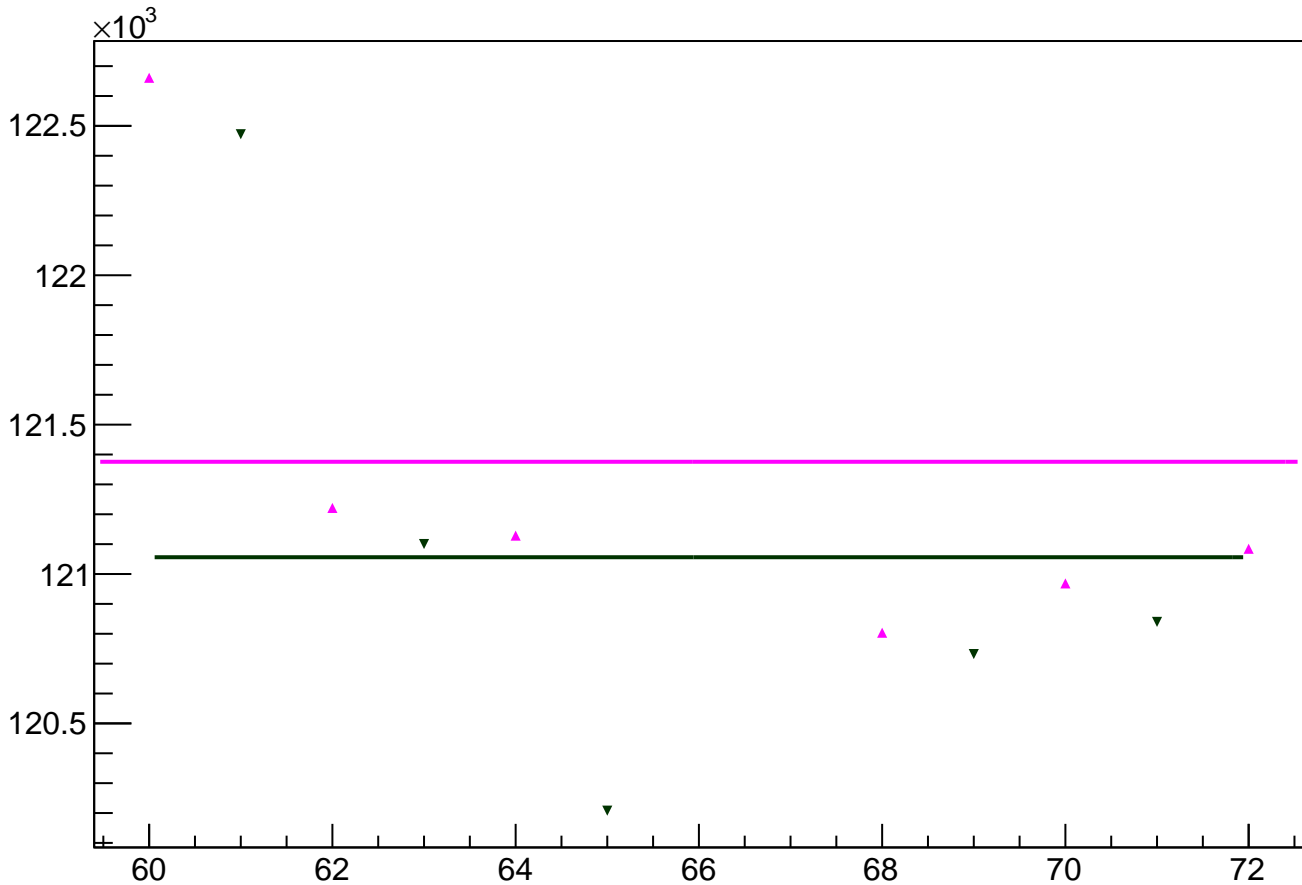
Left In: 135.881+/-0.060  $\chi^2/\text{NDF}$ : 7272.9/5

134.330+/-0.072  $\chi^2/\text{NDF}$ : 11885.3/4

135.881+/-0.060  $\chi^2/\text{NDF}$ : 7272.9/5



# yield\_bpm0i07WS\_mean vs slug



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

Left Out: 121056.189+/-0.182  $\chi^2$ /NDF:14993841.3/4

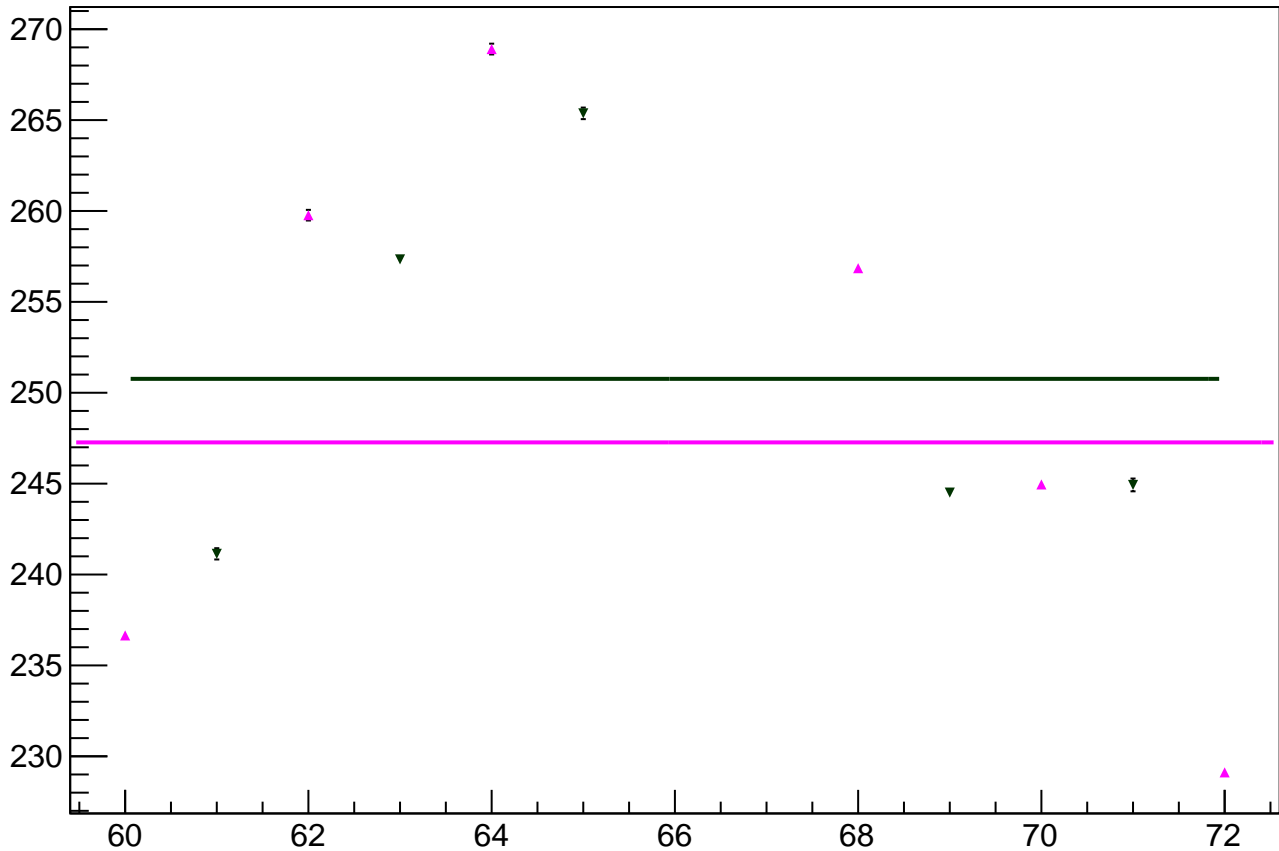
121056.189+/-0.182  $\chi^2$ /NDF: 14993841.3/4

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

121375.697+/-0.151  $\chi^2$ /NDF: 20194759.2/5

Left In: 121375.697+/-0.151  $\chi^2$ /NDF:20194759.2/5

# yield\_bpm0i07WS\_rms vs slug



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

Left Out: 250.765+/-0.129  $\chi^2$ /NDF:4658.2/4

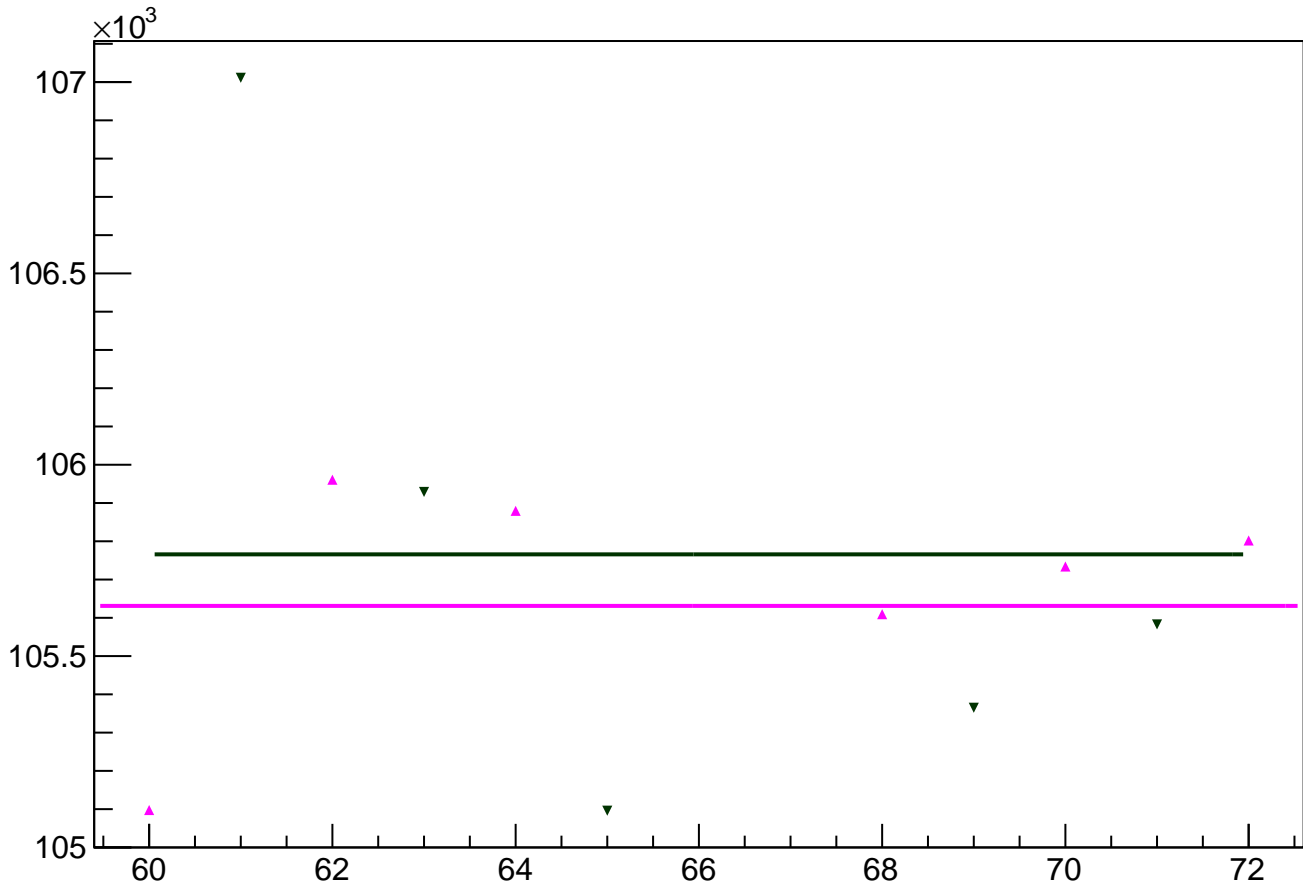
250.765+/-0.129  $\chi^2$ /NDF: 4658.2/4

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

247.269+/-0.107  $\chi^2$ /NDF: 16255.6/5

Left In: 247.269+/-0.107  $\chi^2$ /NDF:16255.6/5

# yield\_bpm0l01WS\_mean vs slug



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

Left Out: 105765.835+/-0.118  $\chi^2$ /NDF:26925318.6/4

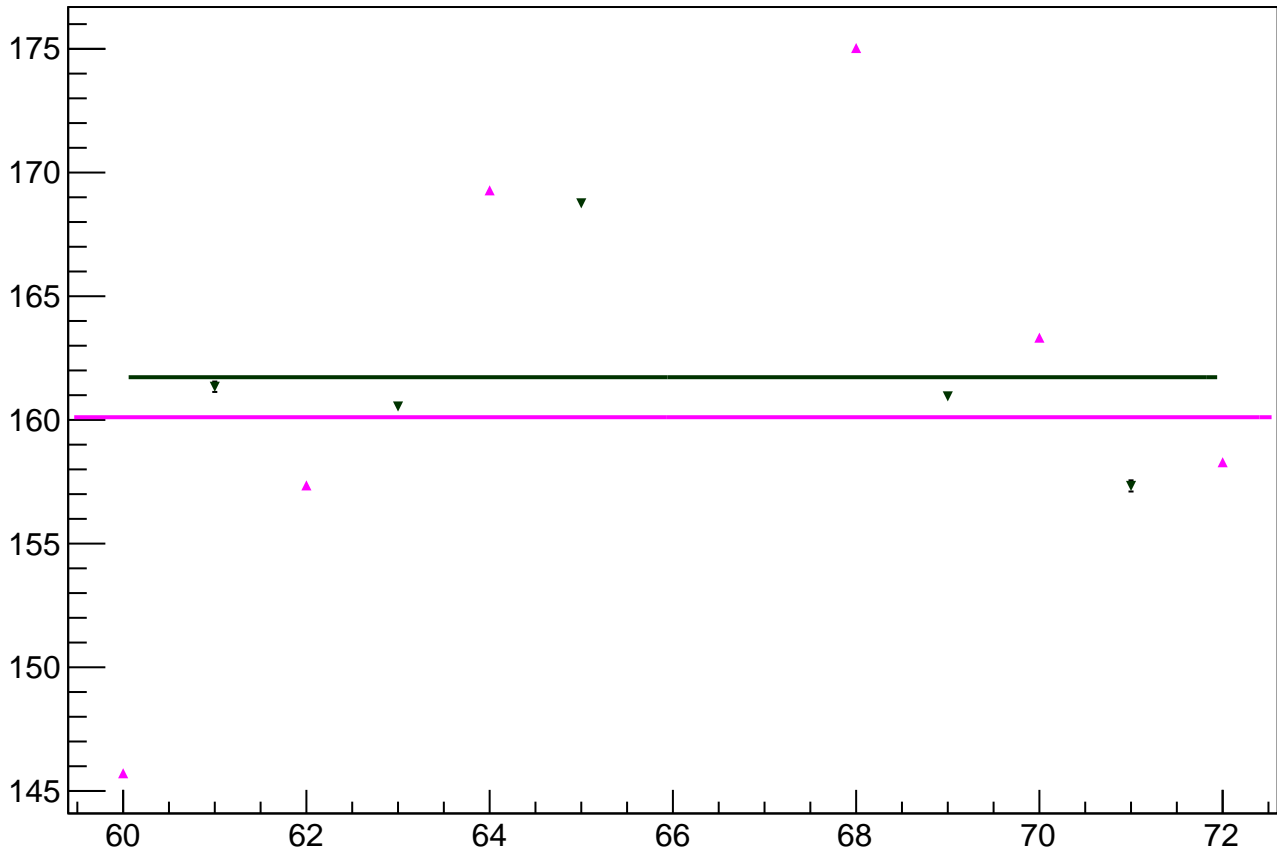
105765.835+/-0.118  $\chi^2$ /NDF: 26925318.6/4

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

105631.150+/-0.098  $\chi^2$ /NDF: 10174949.9/5

Left In: 105631.150+/-0.098  $\chi^2$ /NDF:10174949.9/5

# yield\_bpm0l01WS\_rms vs slug



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

Left Out: 161.726+/-0.083  $\chi^2/\text{NDF}$ : 1667.4/4

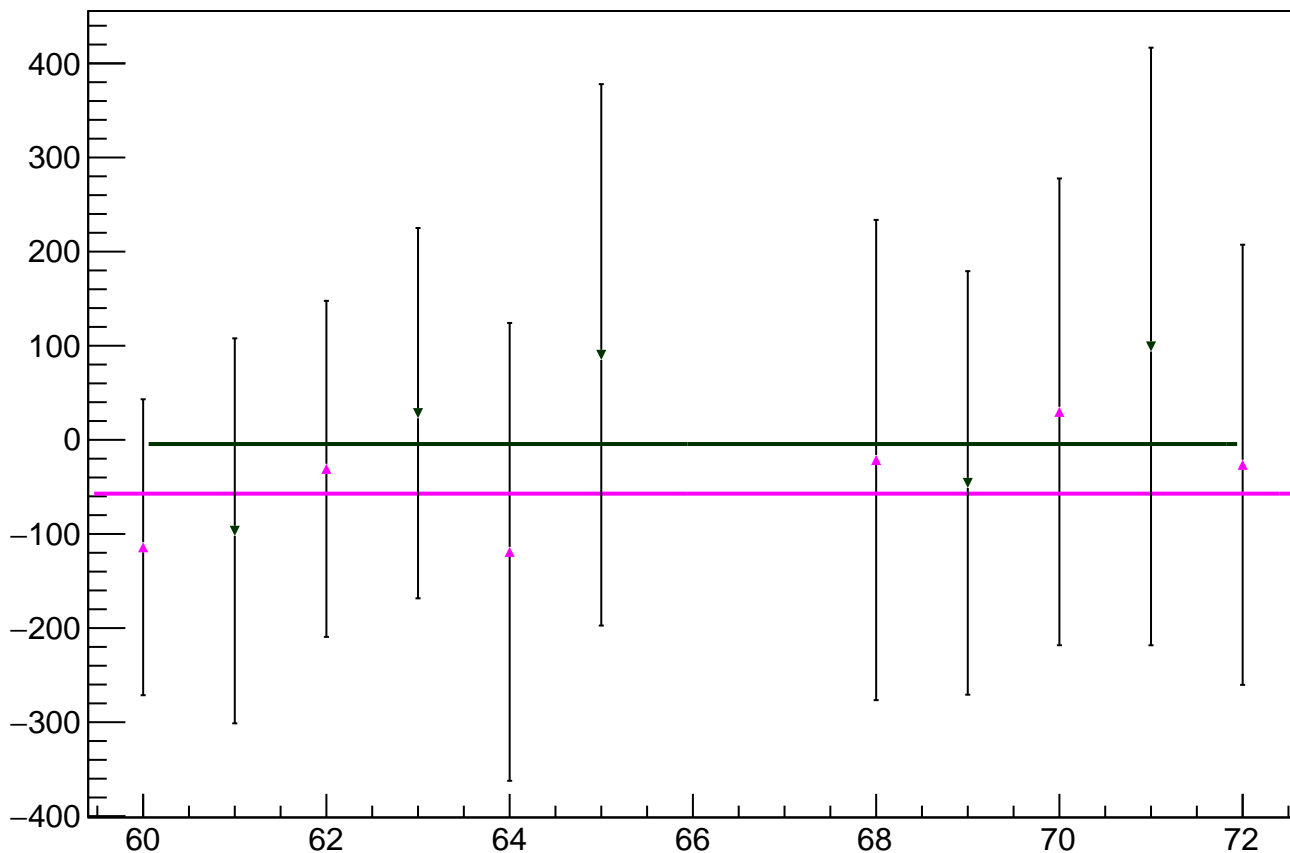
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 160.109+/-0.069  $\chi^2/\text{NDF}$ : 20390.6/5

161.726+/-0.083  $\chi^2/\text{NDF}$ : 1667.4/4

160.109+/-0.069  $\chi^2/\text{NDF}$ : 20390.6/5

# asym\_bcm\_an\_ds\_mean vs slug



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

Left Out: -4.439+/-104.538  $\chi^2$ /NDF:0.5/4

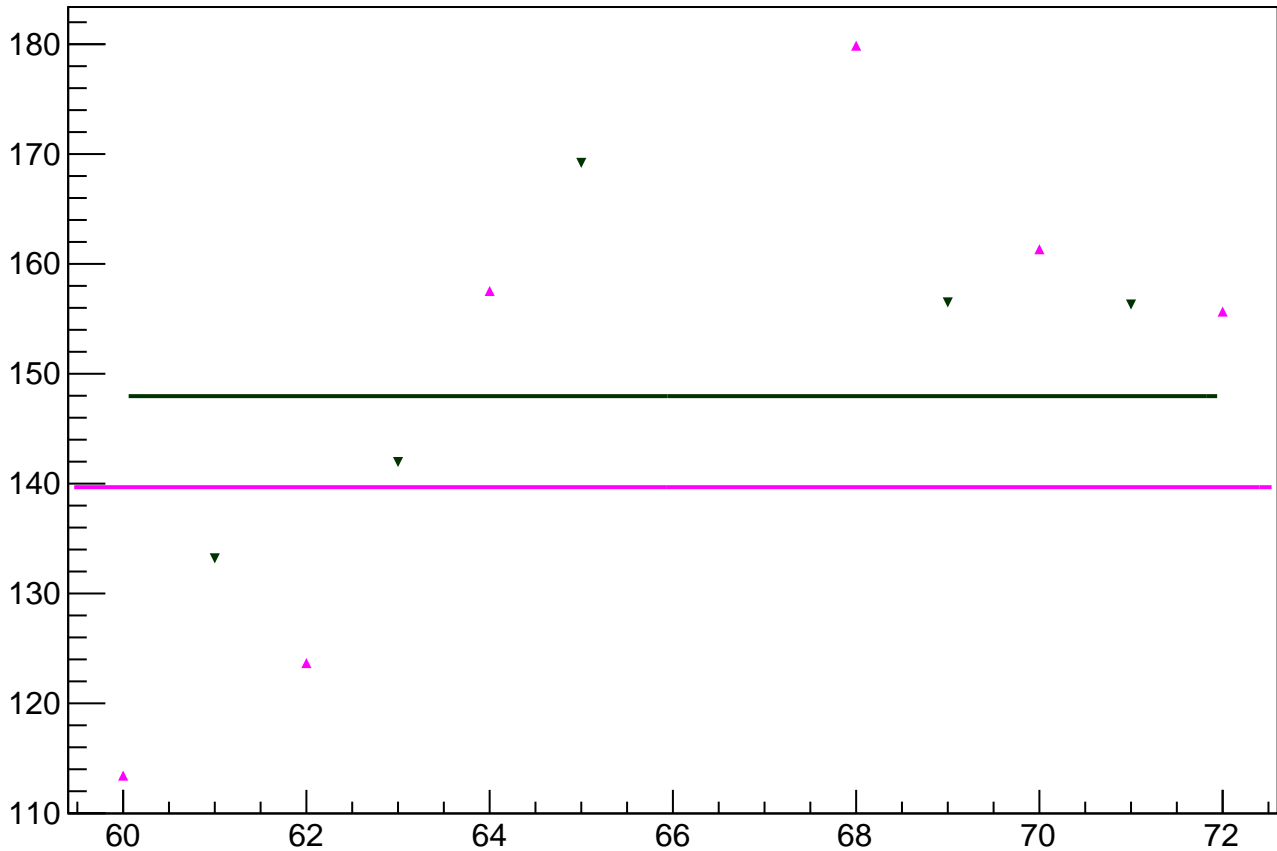
-4.439+/-104.538  $\chi^2$ /NDF: 0.5/4

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

-57.156+/-84.925  $\chi^2$ /NDF: 0.4/5

Left In: -57.156+/-84.925  $\chi^2$ /NDF:0.4/5

# asym\_bcm\_an\_ds\_rms vs slug



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

Left Out: 147.963+/-0.074  $\chi^2$ /NDF:27435.4/4

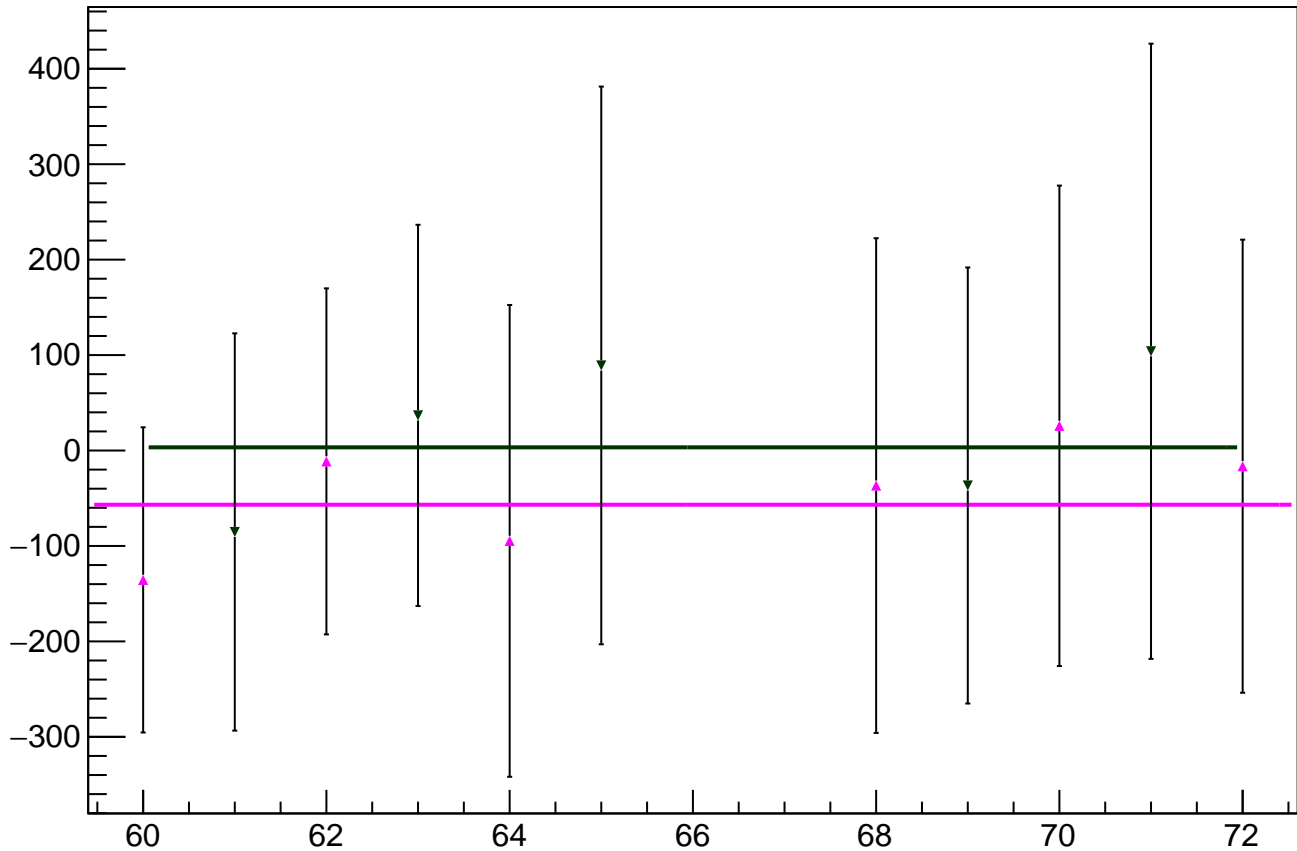
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 139.676+/-0.060  $\chi^2$ /NDF:156873.0/5

147.963+/-0.074  $\chi^2$ /NDF: 27435.4/4

139.676+/-0.060  $\chi^2$ /NDF: 156873.0/5

# asym\_bcm\_an\_ds3\_mean vs slug



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

Left Out: 3.327+/-106.205  $\chi^2/\text{NDF}$ : 0.4/4

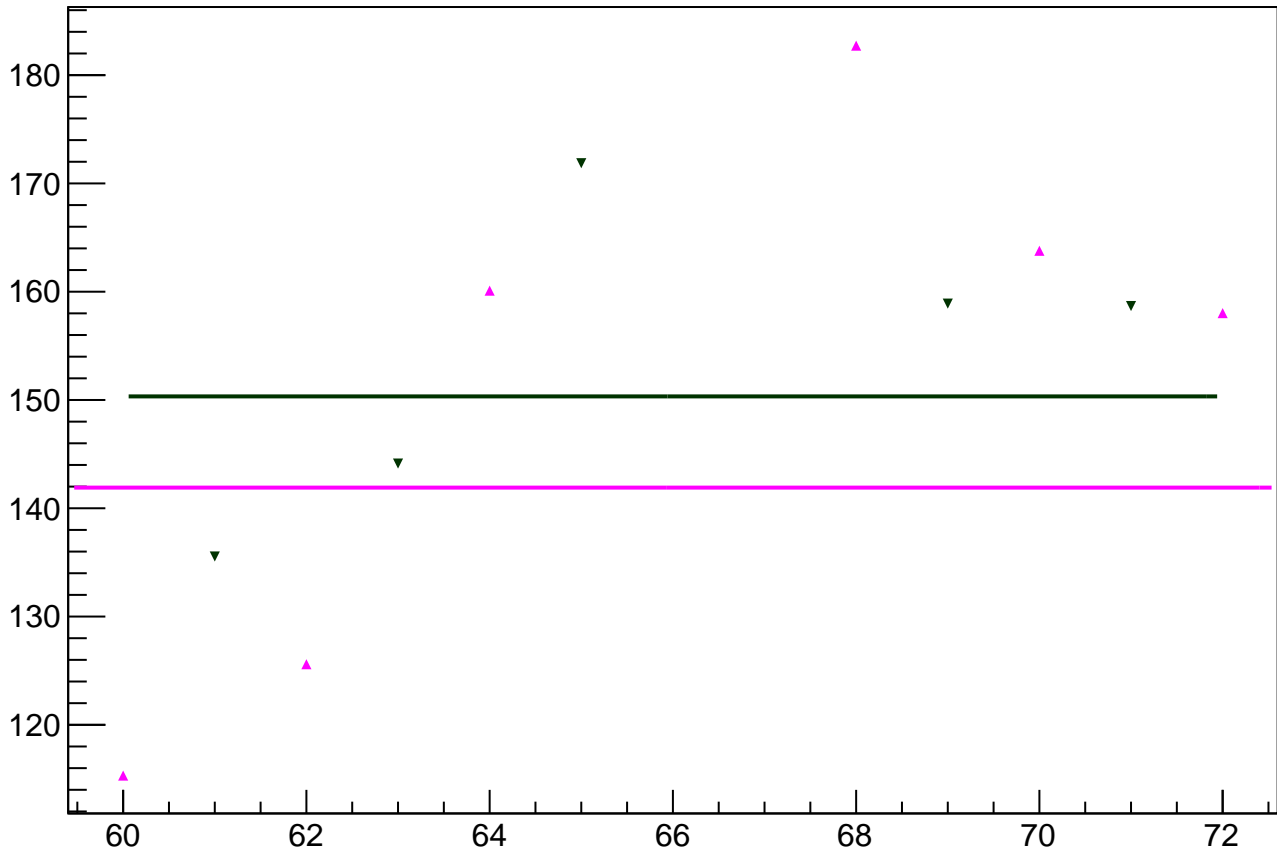
3.327+/-106.205  $\chi^2/\text{NDF}$ : 0.4/4

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

-56.793+/-86.280  $\chi^2/\text{NDF}$ : 0.5/5

Left In: -56.793+/-86.280  $\chi^2/\text{NDF}$ : 0.5/5

# asym\_bcm\_an\_ds3\_rms vs slug



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

Left Out: 150.331+/-0.075  $\chi^2/\text{NDF}$ :27040.8/4

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

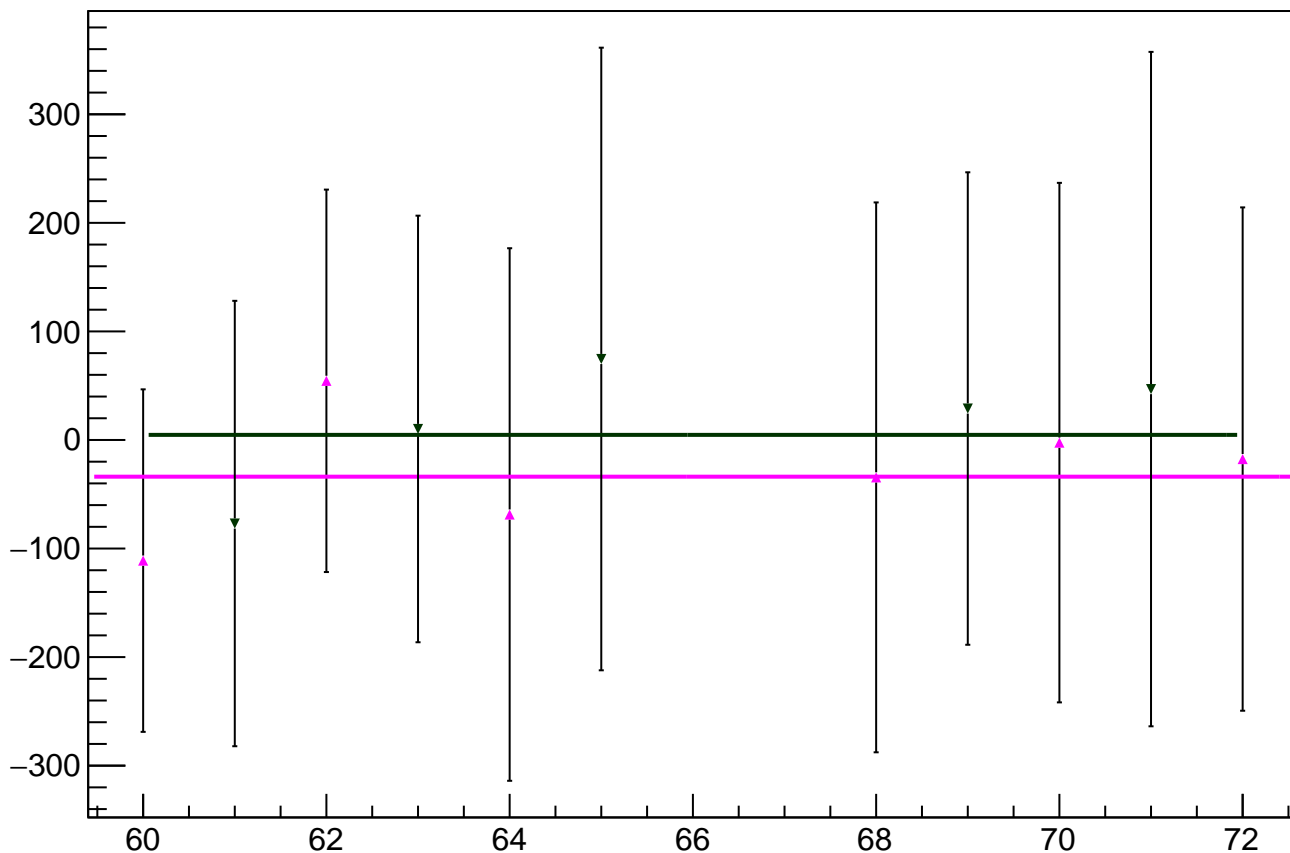
Left In: 141.908+/-0.061  $\chi^2/\text{NDF}$ :156273.9/5

150.331+/-0.075  $\chi^2/\text{NDF}$ : 27040.8/4

141.908+/-0.061  $\chi^2/\text{NDF}$ : 156273.9/5



# asym\_bcm\_an\_us\_mean vs slug



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

4.695+/-103.523  $\chi^2/\text{NDF}$ : 0.2/4

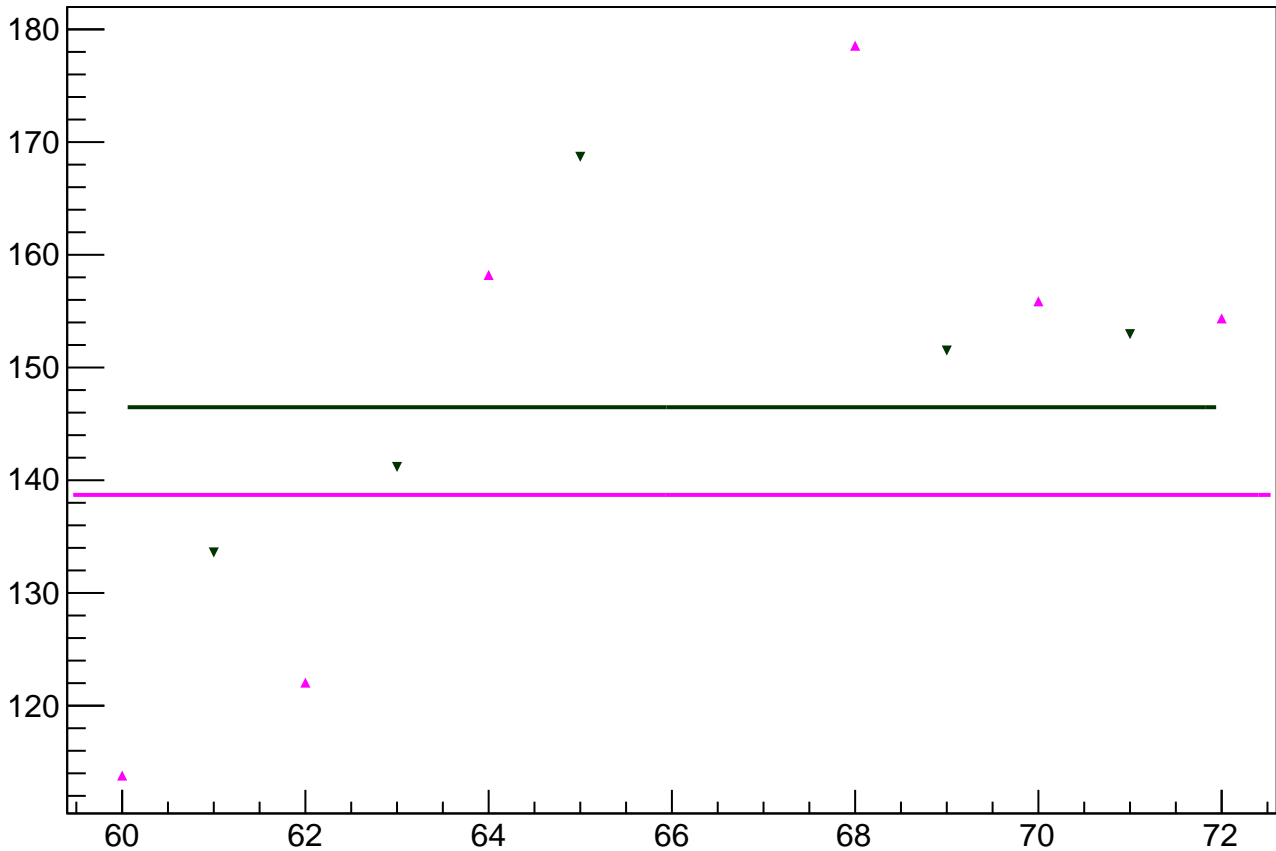
Left Out: 4.695+/-103.523  $\chi^2/\text{NDF}$ : 0.2/4

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

-33.810+/-84.307  $\chi^2/\text{NDF}$ : 0.5/5

Left In: -33.810+/-84.307  $\chi^2/\text{NDF}$ : 0.5/5

# asym\_bcm\_an\_us\_rms vs slug



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

Left Out: 146.478+/-0.073  $\chi^2/\text{NDF}$ : 23283.3/4

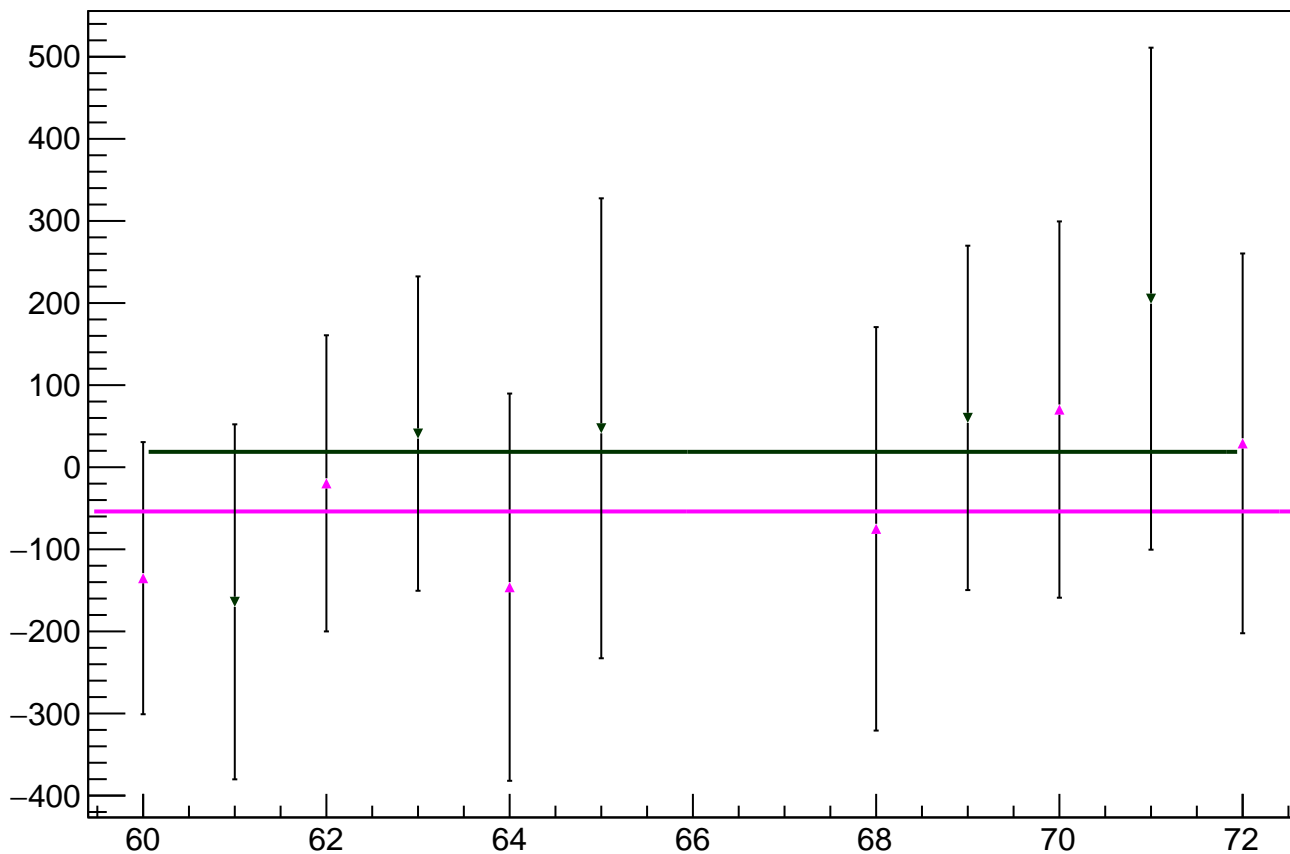
146.478+/-0.073  $\chi^2/\text{NDF}$ : 23283.3/4

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

138.700+/-0.060  $\chi^2/\text{NDF}$ : 149296.5/5

Left In: 138.700+/-0.060  $\chi^2/\text{NDF}$ : 149296.5/5

# asym\_bcm\_dg\_us\_mean vs slug



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

Left Out: 18.740+/-102.688  $\chi^2$ /NDF: 1.1/4

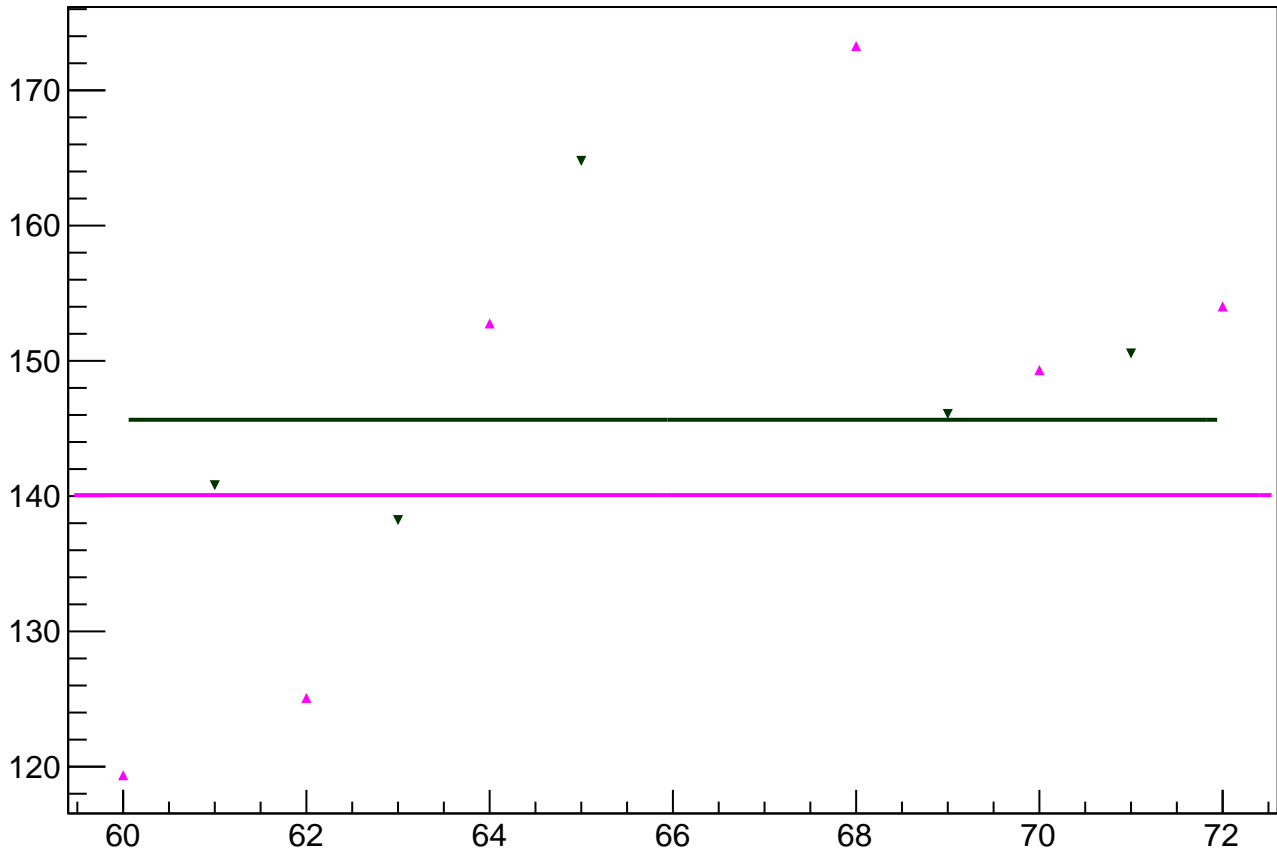
18.740+/-102.688  $\chi^2$ /NDF: 1.1/4

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

-53.892+/-84.698  $\chi^2$ /NDF: 0.9/5

Left In: -53.892+/-84.698  $\chi^2$ /NDF: 0.9/5

# asym\_bcm\_dg\_us\_rms vs slug



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

Left Out: 145.645+/-0.073  $\chi^2/\text{NDF}$ : 13858.8/4

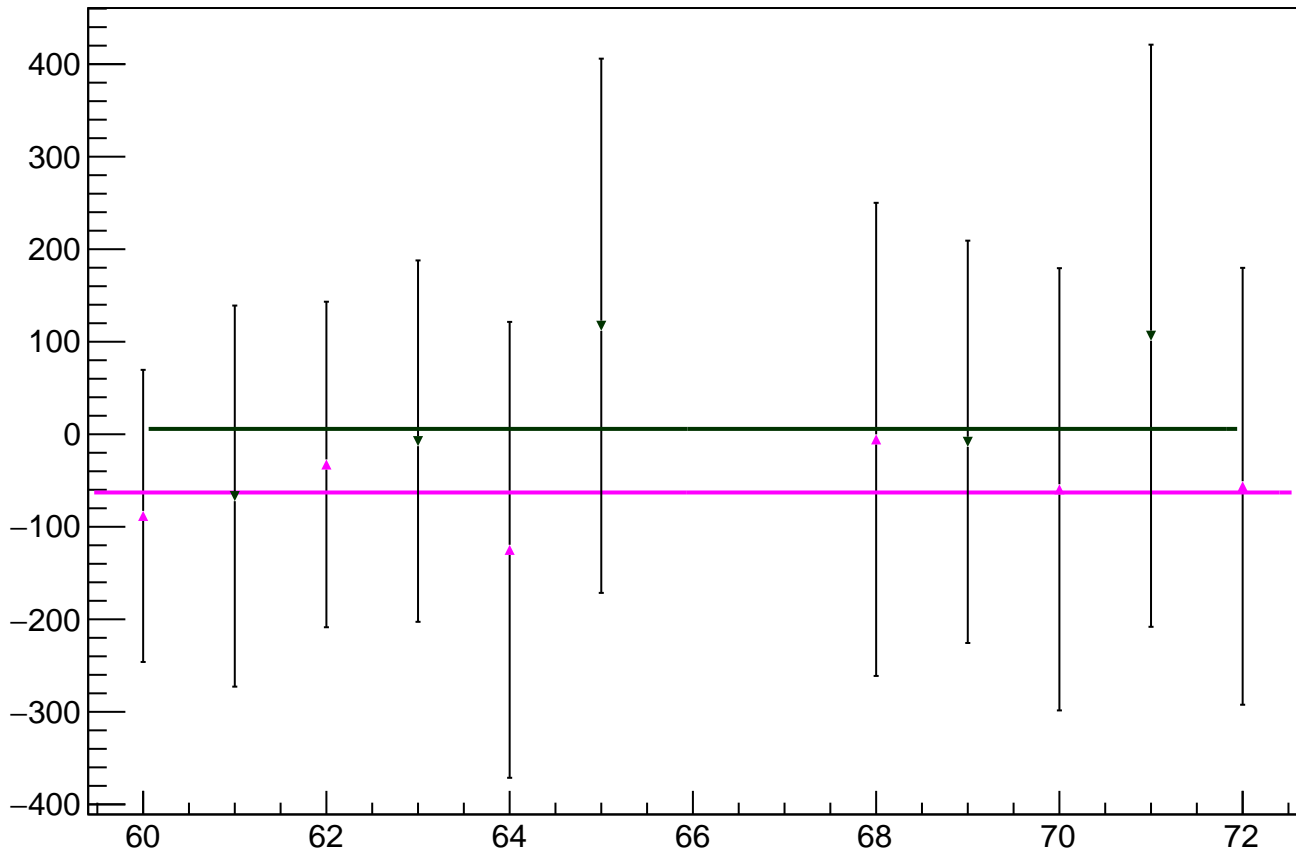
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 140.078+/-0.060  $\chi^2/\text{NDF}$ : 97858.0/5

145.645+/-0.073  $\chi^2/\text{NDF}$ : 13858.8/4

140.078+/-0.060  $\chi^2/\text{NDF}$ : 97858.0/5

# asym\_bcm\_dg\_ds\_mean vs slug



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

5.797+/-103.662  $\chi^2/\text{NDF}$ : 0.4/4

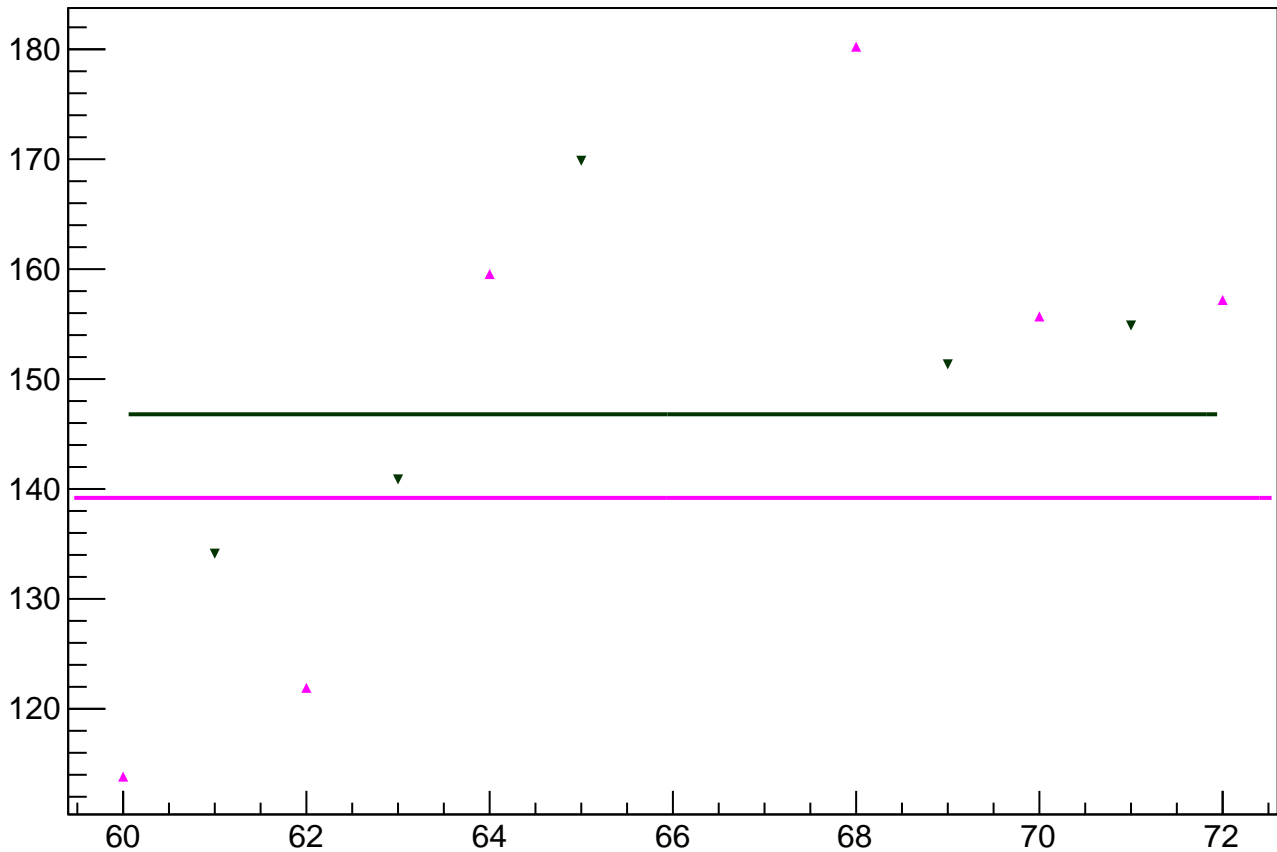
Left Out: 5.797+/-103.662  $\chi^2/\text{NDF}$ : 0.4/4

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

-62.933+/-84.615  $\chi^2/\text{NDF}$ : 0.2/5

Left In: -62.933+/-84.615  $\chi^2/\text{NDF}$ : 0.2/5

# asym\_bcm\_dg\_ds\_rms vs slug



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

Left Out: 146.795+/-0.073  $\chi^2/\text{NDF}$ :24380.8/4

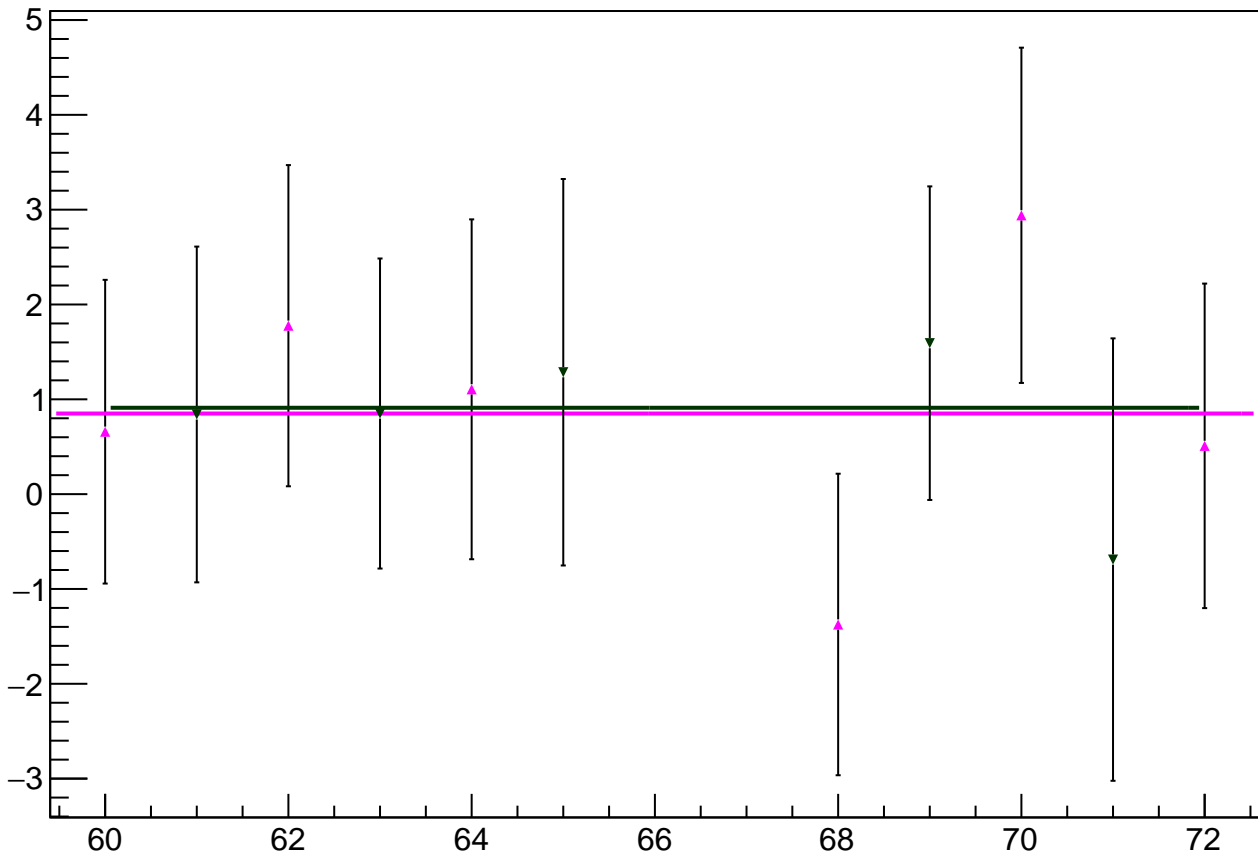
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 139.190+/-0.060  $\chi^2/\text{NDF}$ :157283.8/5

146.795+/-0.073  $\chi^2/\text{NDF}$ : 24380.8/4

139.190+/-0.060  $\chi^2/\text{NDF}$ : 157283.8/5

# asym\_cav4bQ\_mean vs slug



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

Left Out: 0.911 $\pm$ 0.821  $\chi^2$ /NDF: 0.7/4

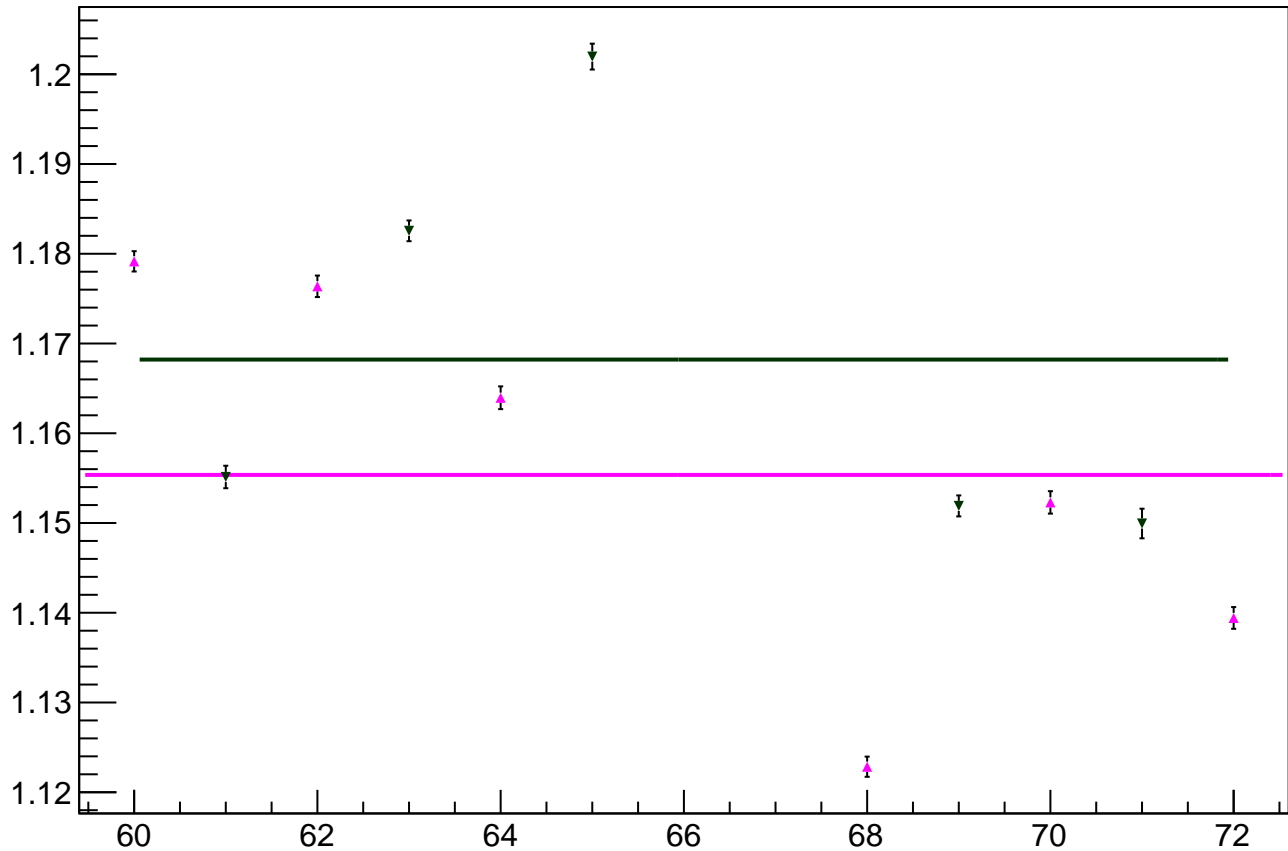
Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.850 $\pm$ 0.689  $\chi^2$ /NDF: 3.7/5

0.911 $\pm$ 0.821  $\chi^2$ /NDF: 0.7/4

0.850 $\pm$ 0.689  $\chi^2$ /NDF: 3.7/5

# asym\_cav4bQ\_rms vs slug



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

Left Out: 1.168+/-0.001  $\chi^2/\text{NDF}$ : 1129.1/4

1.168+/-0.001  $\chi^2/\text{NDF}$ : 1129.1/4

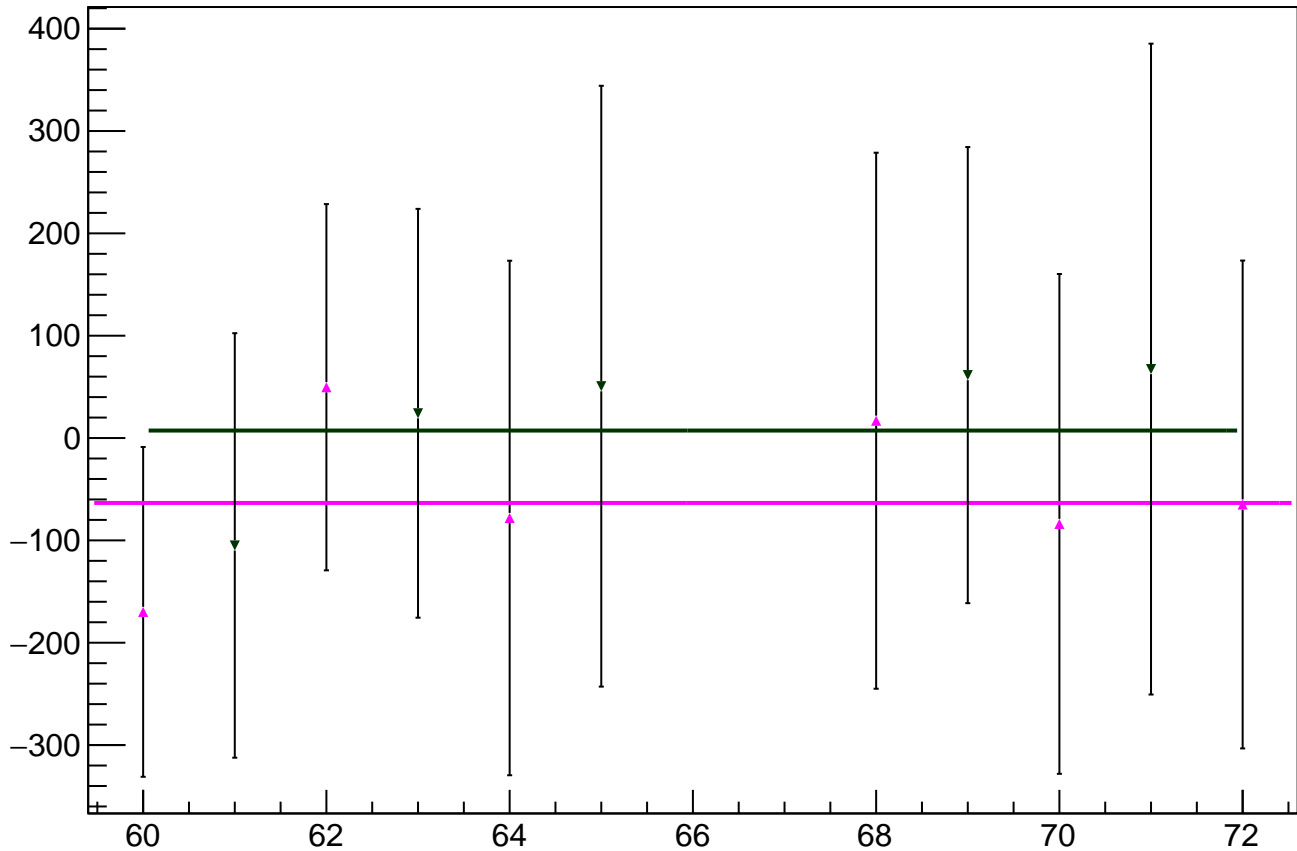
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

1.155+/-0.000  $\chi^2/\text{NDF}$ : 1811.4/5

Left In: 1.155+/-0.000  $\chi^2/\text{NDF}$ : 1811.4/5



# asym\_cav4cQ\_mean vs slug



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

Left Out: 7.319+/-105.440  $\chi^2/\text{NDF}$ : 0.4/4

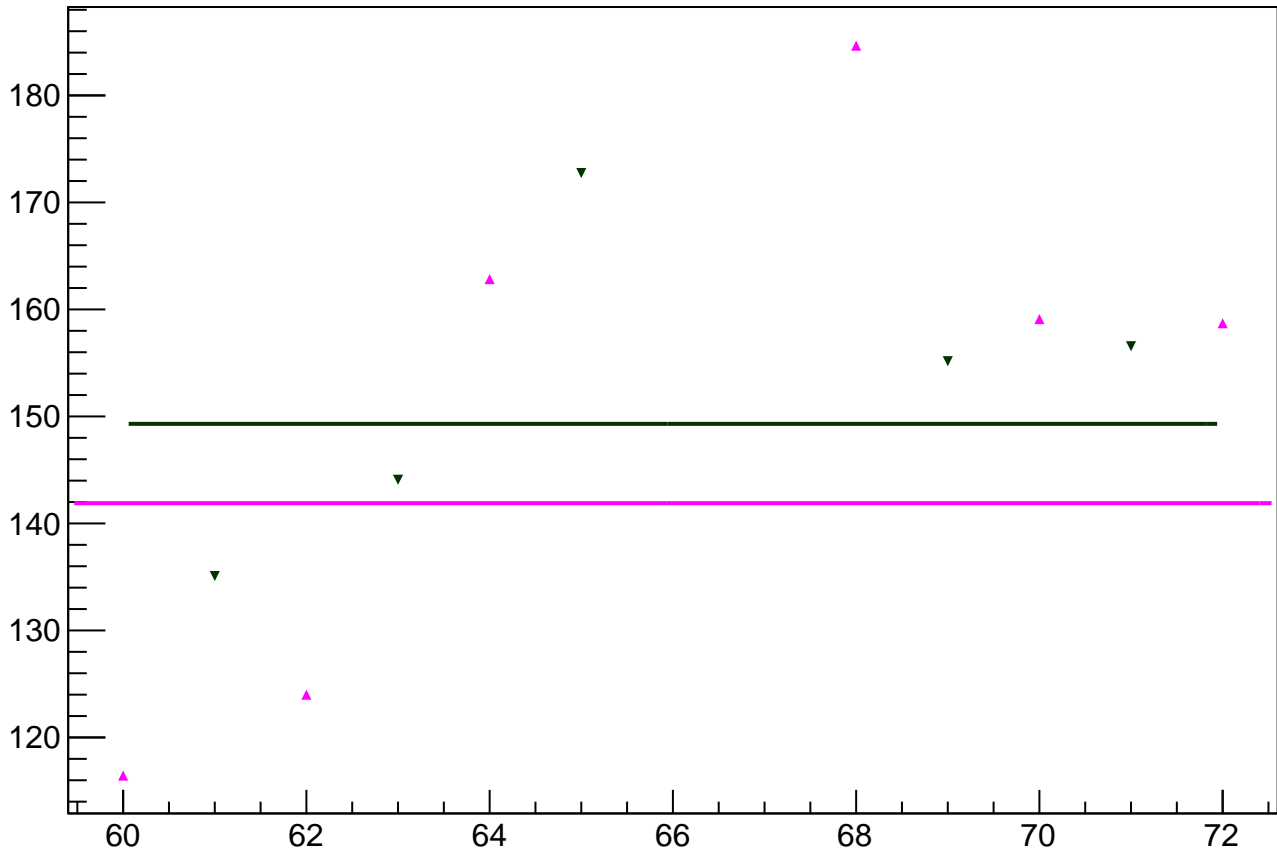
7.319+/-105.440  $\chi^2/\text{NDF}$ : 0.4/4

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

-63.416+/-86.221  $\chi^2/\text{NDF}$ : 0.9/5

Left In: -63.416+/-86.221  $\chi^2/\text{NDF}$ : 0.9/5

# asym\_cav4cQ\_rms vs slug



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

Left Out: 149.308+/-0.075  $\chi^2/\text{NDF}$ :25945.4/4

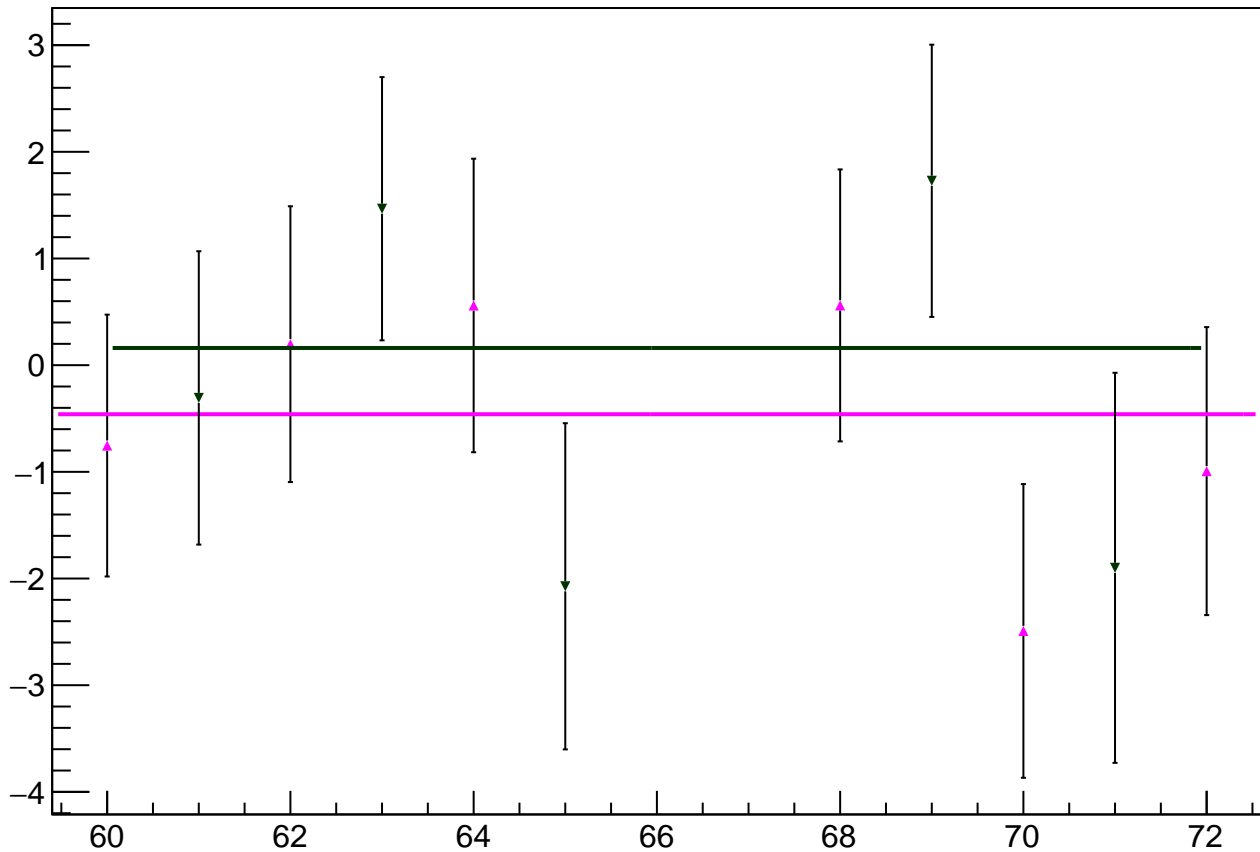
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 141.895+/-0.061  $\chi^2/\text{NDF}$ :156981.2/5

149.308+/-0.075  $\chi^2/\text{NDF}$ : 25945.4/4

141.895+/-0.061  $\chi^2/\text{NDF}$ : 156981.2/5

# asym\_cav4dQ\_mean vs slug



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

Left Out: 0.161+/-0.629  $\chi^2/\text{NDF}$ : 6.2/4

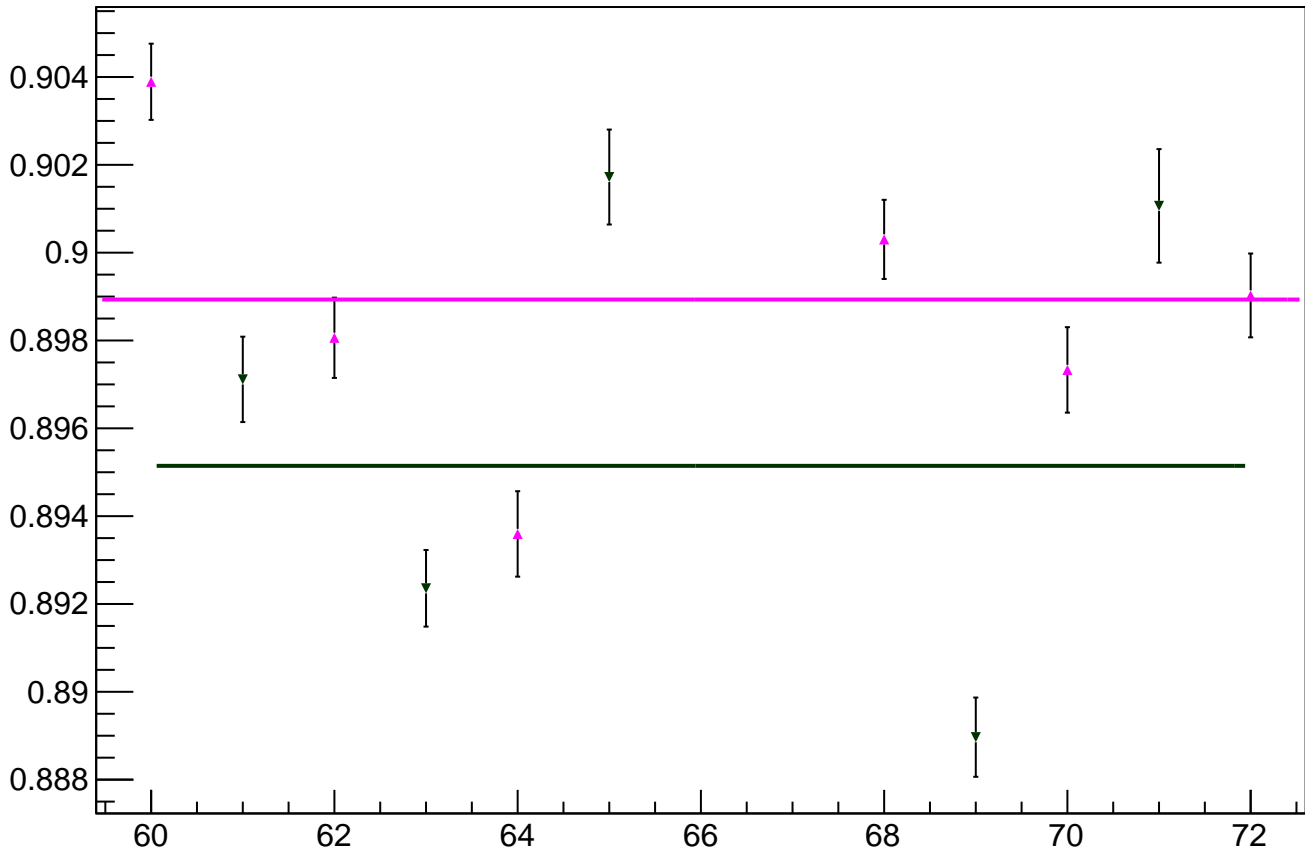
0.161+/-0.629  $\chi^2/\text{NDF}$ : 6.2/4

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

Left In: -0.460+/-0.536  $\chi^2/\text{NDF}$ : 3.8/5

-0.460+/-0.536  $\chi^2/\text{NDF}$ : 3.8/5

# asym\_cav4dQ\_rms vs slug



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

Left Out: 0.895+/-0.000  $\chi^2/\text{NDF}$ : 119.2/4

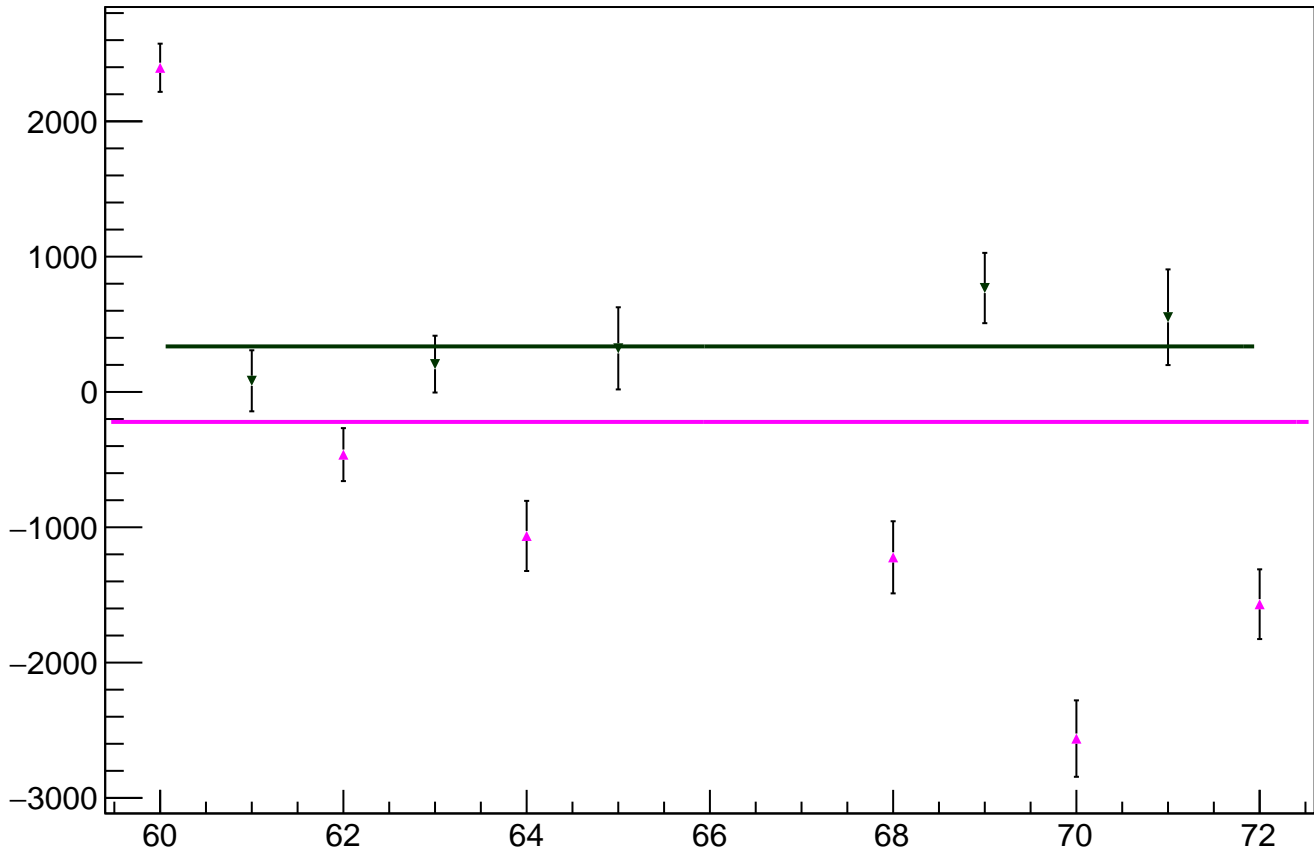
0.895+/-0.000  $\chi^2/\text{NDF}$ : 119.2/4

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

0.899+/-0.000  $\chi^2/\text{NDF}$ : 68.7/5

Left In: 0.899+/-0.000  $\chi^2/\text{NDF}$ : 68.7/5

# asym\_bcm0l02\_mean vs slug



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

Left Out: 336.576+/-114.682  $\chi^2$ /NDF:4.8/4

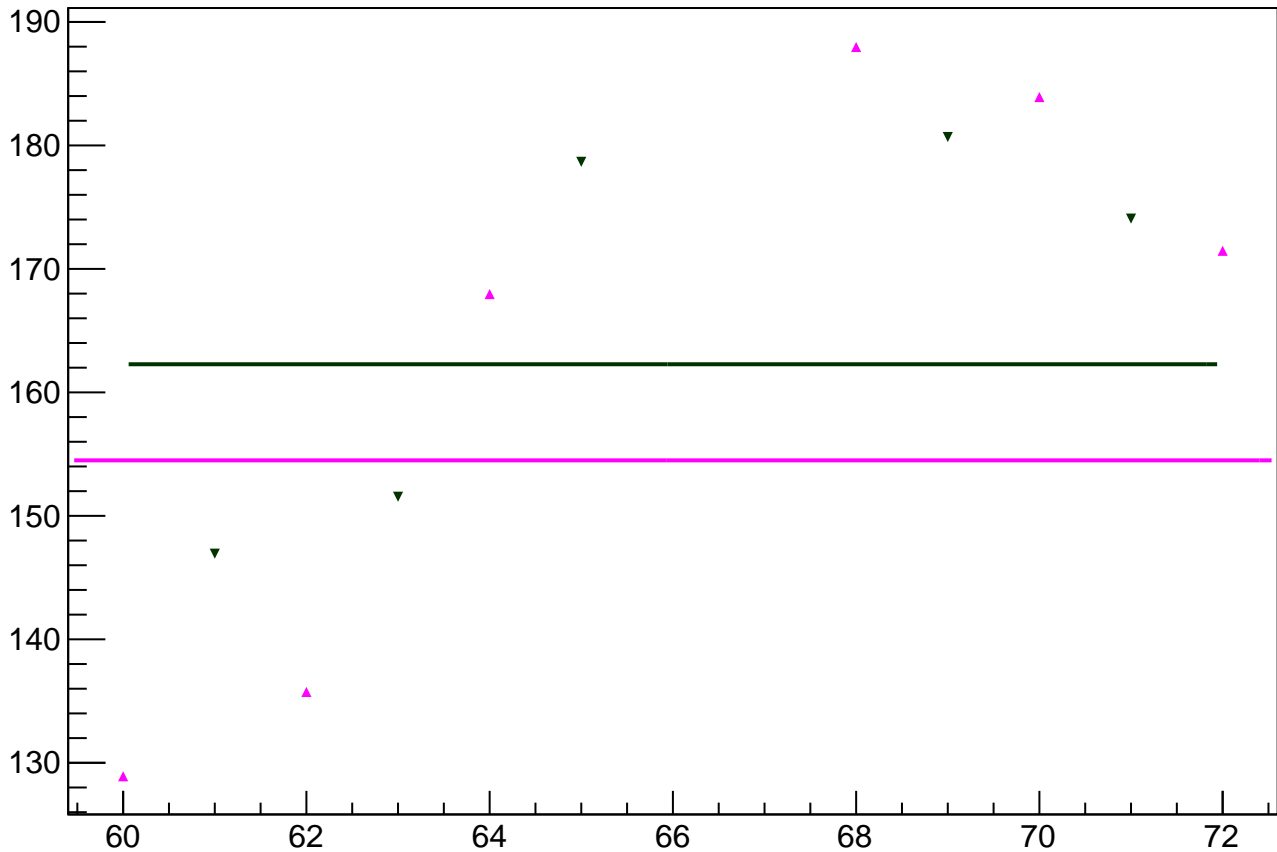
336.576+/-114.682  $\chi^2$ /NDF: 4.8/4

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

-221.427+/-93.574  $\chi^2$ /NDF: 338.2/5

Left In: -221.427+/-93.574  $\chi^2$ /NDF:338.2/5

# asym\_bcm0l02\_rms vs slug



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

Left Out: 162.278+/-0.081  $\chi^2/\text{NDF}$ : 32583.0/4

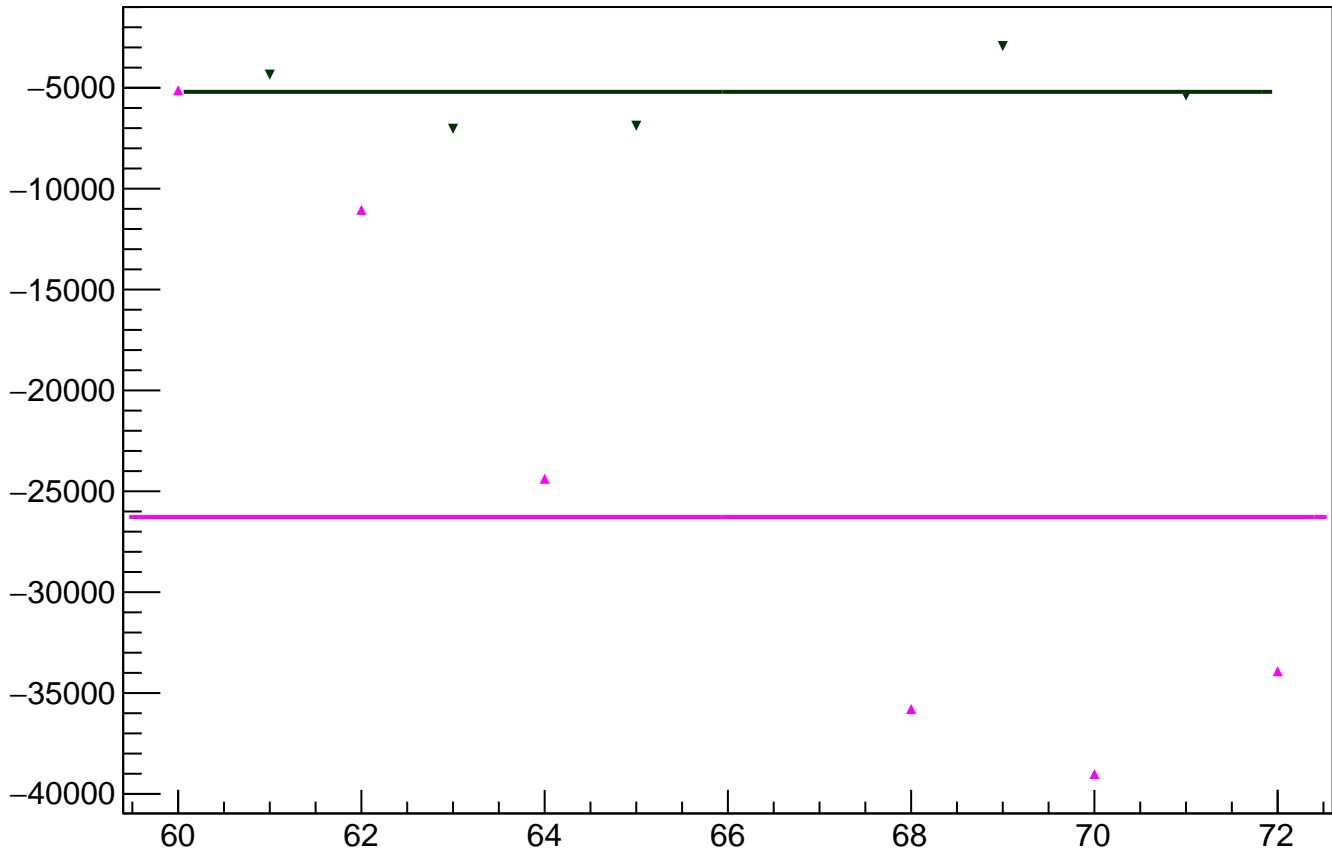
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 154.495+/-0.066  $\chi^2/\text{NDF}$ : 127000.1/5

162.278+/-0.081  $\chi^2/\text{NDF}$ : 32583.0/4

154.495+/-0.066  $\chi^2/\text{NDF}$ : 127000.1/5

# asym\_bpm2i01WS\_mean vs slug



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

Left Out: -5200.149+/-63.501  $\chi^2$ /NDF:717.1/4

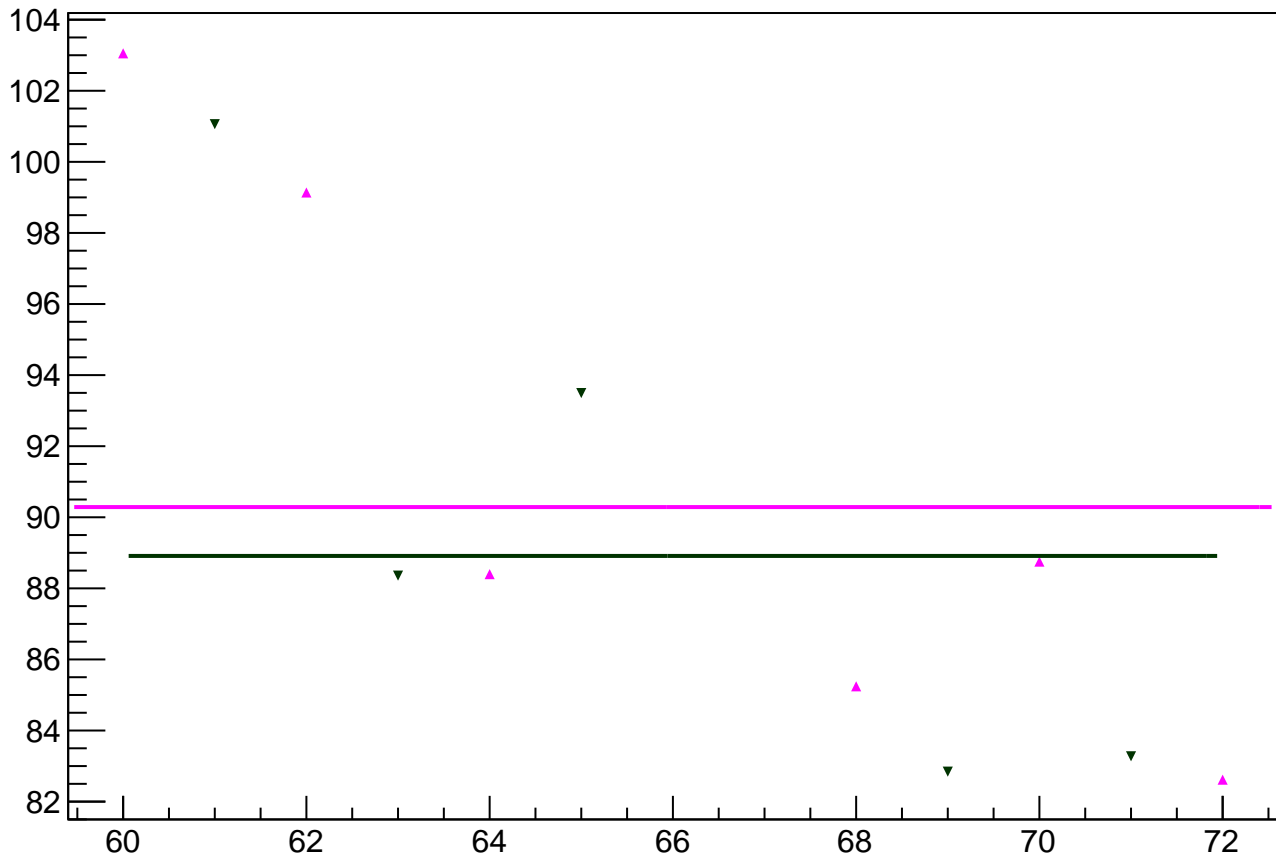
-5200.149+/-63.501  $\chi^2$ /NDF: 717.1/4

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

-26276.047+/-54.710  $\chi^2$ /NDF: 50887.5/5

Left In: -26276.047+/-54.710  $\chi^2$ /NDF:50887.5/5

# asym\_bpm2i01WS\_rms vs slug



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

Left Out: 88.912+/-0.045  $\chi^2/\text{NDF}$ : 20632.5/4

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

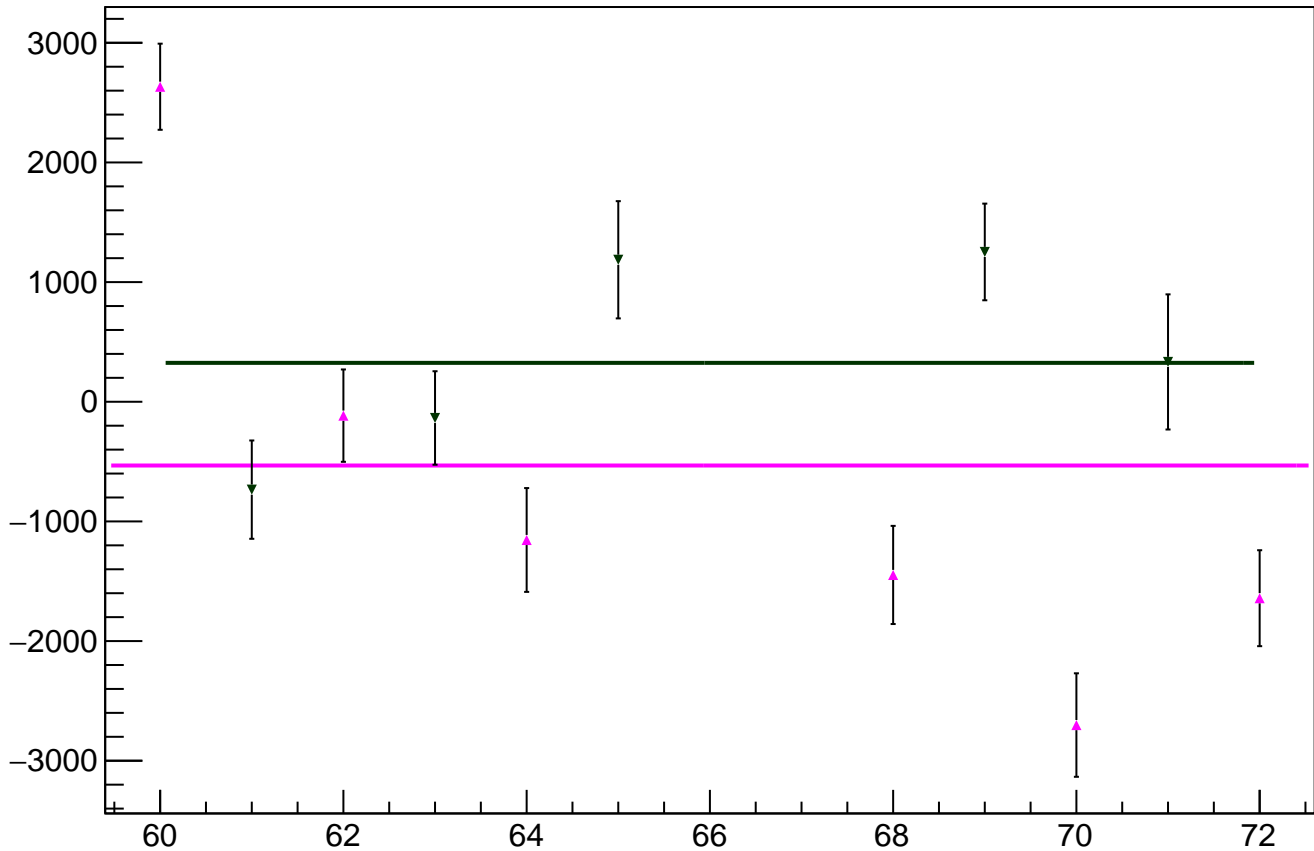
Left In: 90.287+/-0.039  $\chi^2/\text{NDF}$ : 34506.5/5

88.912+/-0.045  $\chi^2/\text{NDF}$ : 20632.5/4

90.287+/-0.039  $\chi^2/\text{NDF}$ : 34506.5/5



# asym\_bpm0i07WS\_mean vs slug



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

Left Out: 325.122+/-196.454  $\chi^2/\text{NDF}$ : 16.4/4

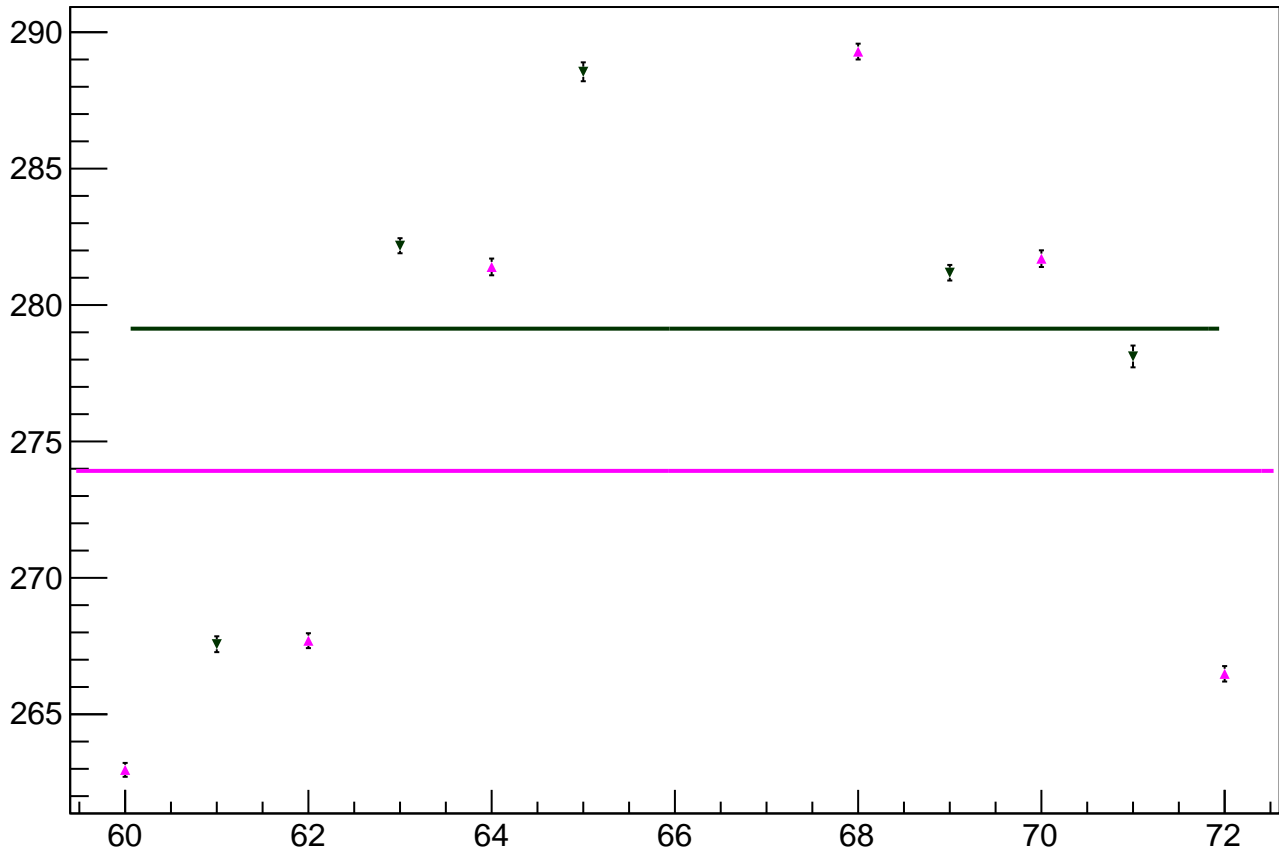
325.122+/-196.454  $\chi^2/\text{NDF}$ : 16.4/4

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

-532.716+/-163.821  $\chi^2/\text{NDF}$ : 118.4/5

Left In: -532.716+/-163.821  $\chi^2/\text{NDF}$ : 118.4/5

# asym\_bpm0i07WS\_rms vs slug



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

Left Out: 279.134+/-0.139  $\chi^2$ /NDF:2503.0/4

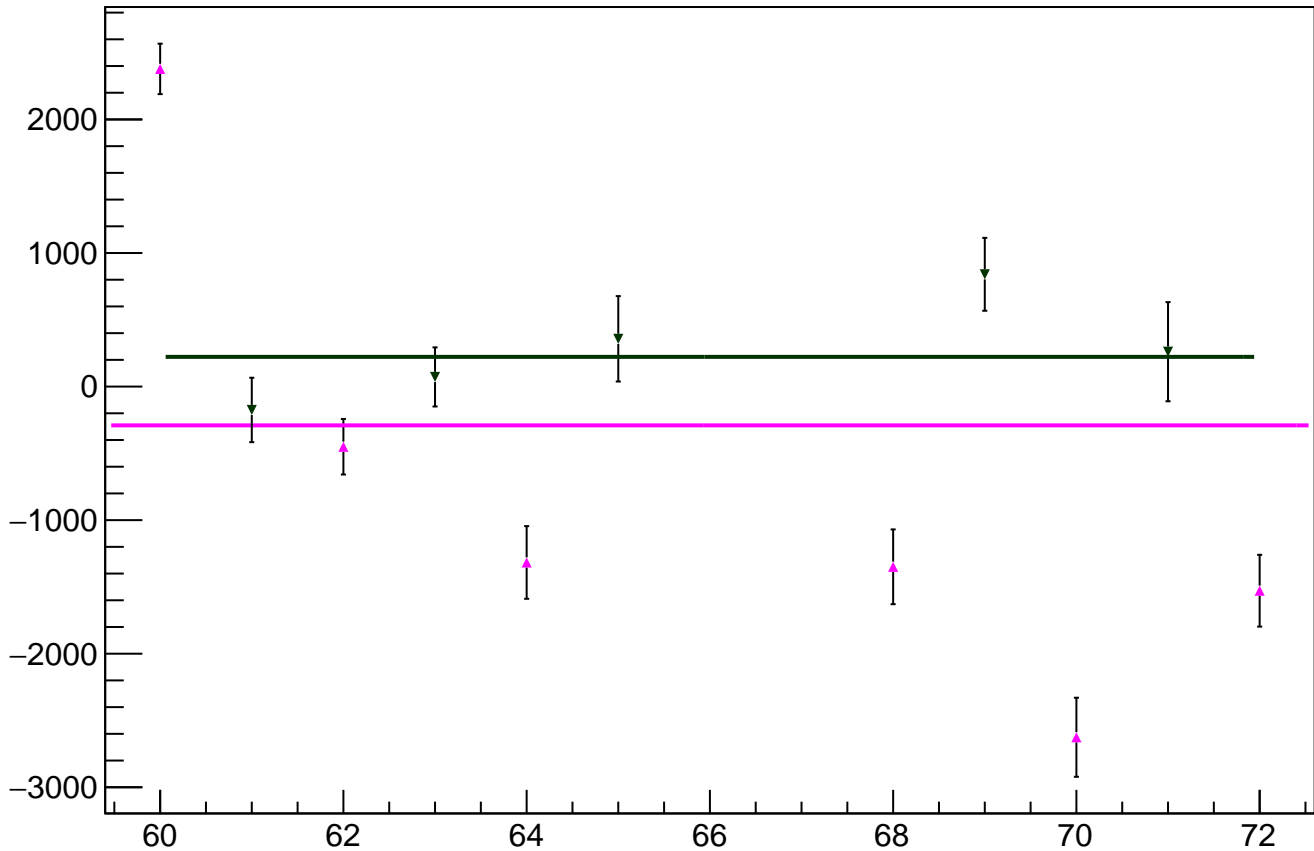
279.134+/-0.139  $\chi^2$ /NDF: 2503.0/4

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

273.921+/-0.116  $\chi^2$ /NDF: 7112.1/5

Left In: 273.921+/-0.116  $\chi^2$ /NDF:7112.1/5

# asym\_bpm0l01WS\_mean vs slug



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

222.424+/-121.191  $\chi^2/\text{NDF}$ : 8.5/4

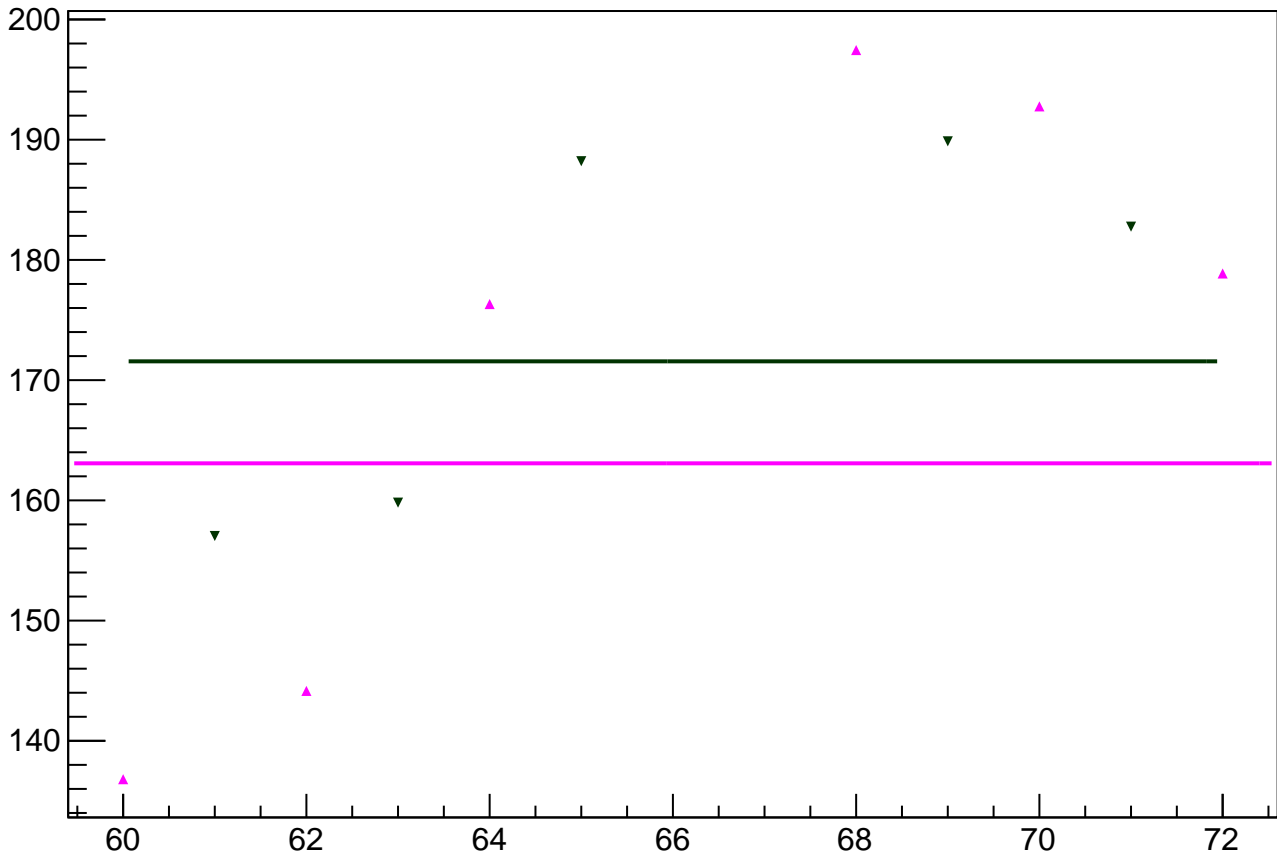
Left Out: 222.424+/-121.191  $\chi^2/\text{NDF}$ : 8.5/4

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

-290.455+/-98.677  $\chi^2/\text{NDF}$ : 312.3/5

Left In: -290.455+/-98.677  $\chi^2/\text{NDF}$ : 312.3/5

# asym\_bpm0l01WS\_rms vs slug



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

Left Out: 171.564+/-0.086  $\chi^2$ /NDF:29136.6/4

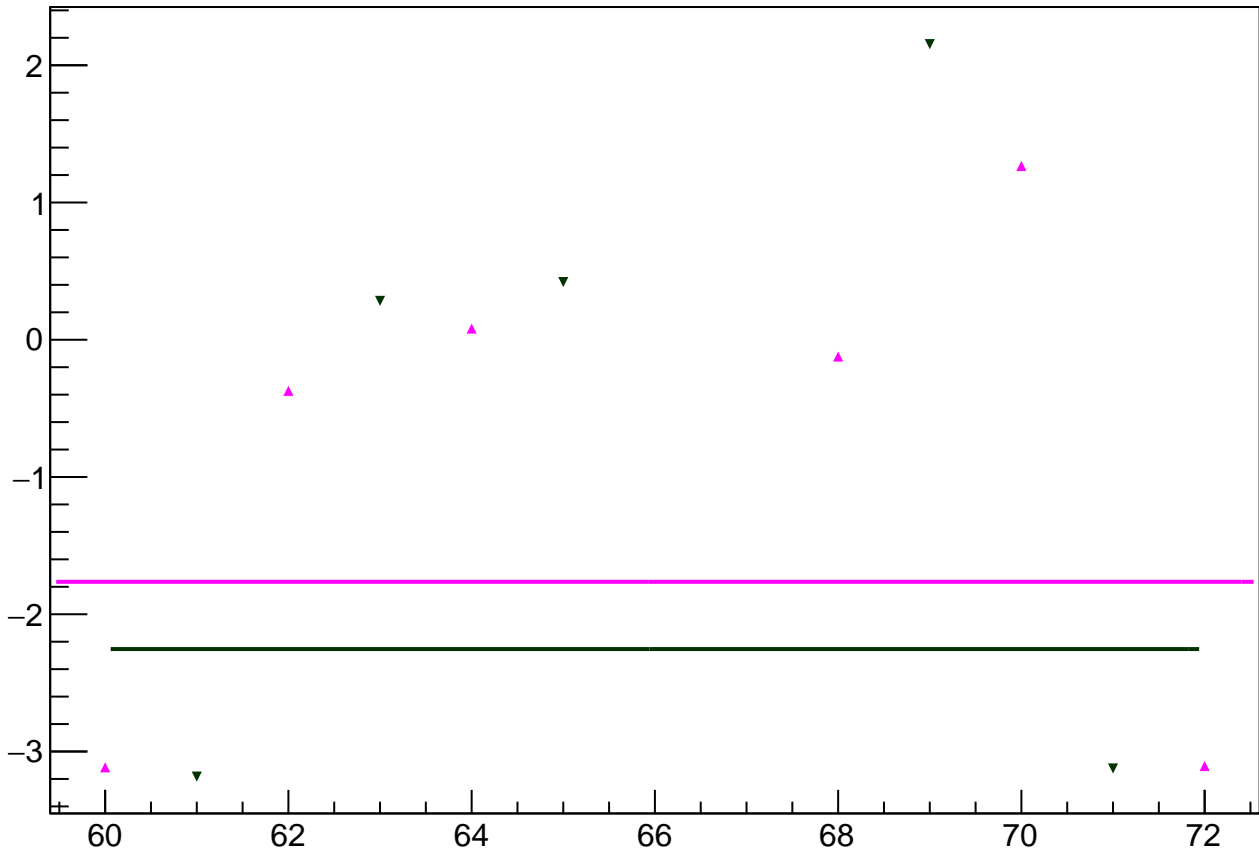
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 163.082+/-0.070  $\chi^2$ /NDF:117212.3/5

171.564+/-0.086  $\chi^2$ /NDF: 29136.6/4

163.082+/-0.070  $\chi^2$ /NDF: 117212.3/5

# yield\_cav4bX\_mean vs slug



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

-2.254+/-0.001  $\chi^2/\text{NDF}$ : 2915890.3/4

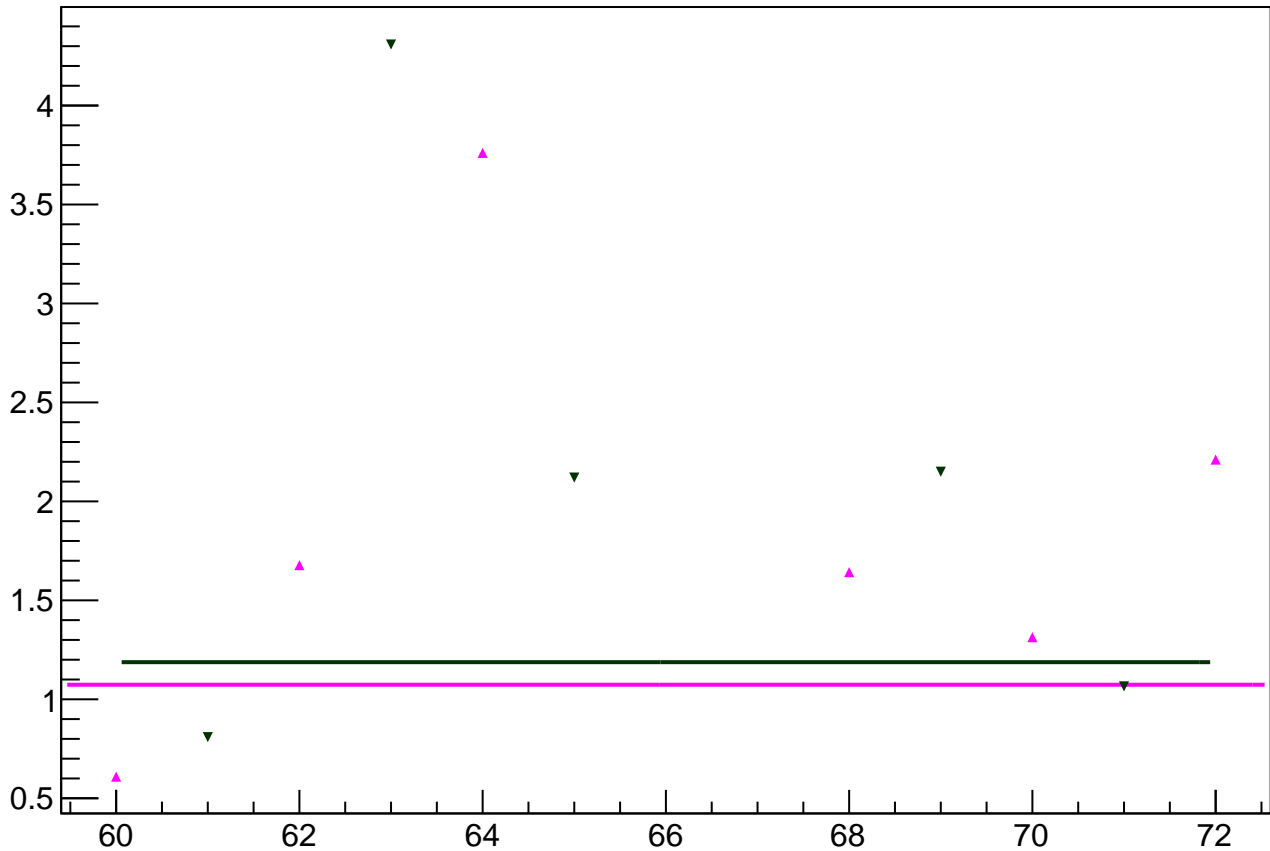
Left Out: -2.254+/-0.001  $\chi^2/\text{NDF}$ : 2915890.3/4

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

-1.764+/-0.001  $\chi^2/\text{NDF}$ : 4656733.2/5

Left In: -1.764+/-0.001  $\chi^2/\text{NDF}$ : 4656733.2/5

# yield\_cav4bX\_rms vs slug



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

1.188+/-0.001  $\chi^2/\text{NDF}$ : 983530.4/4

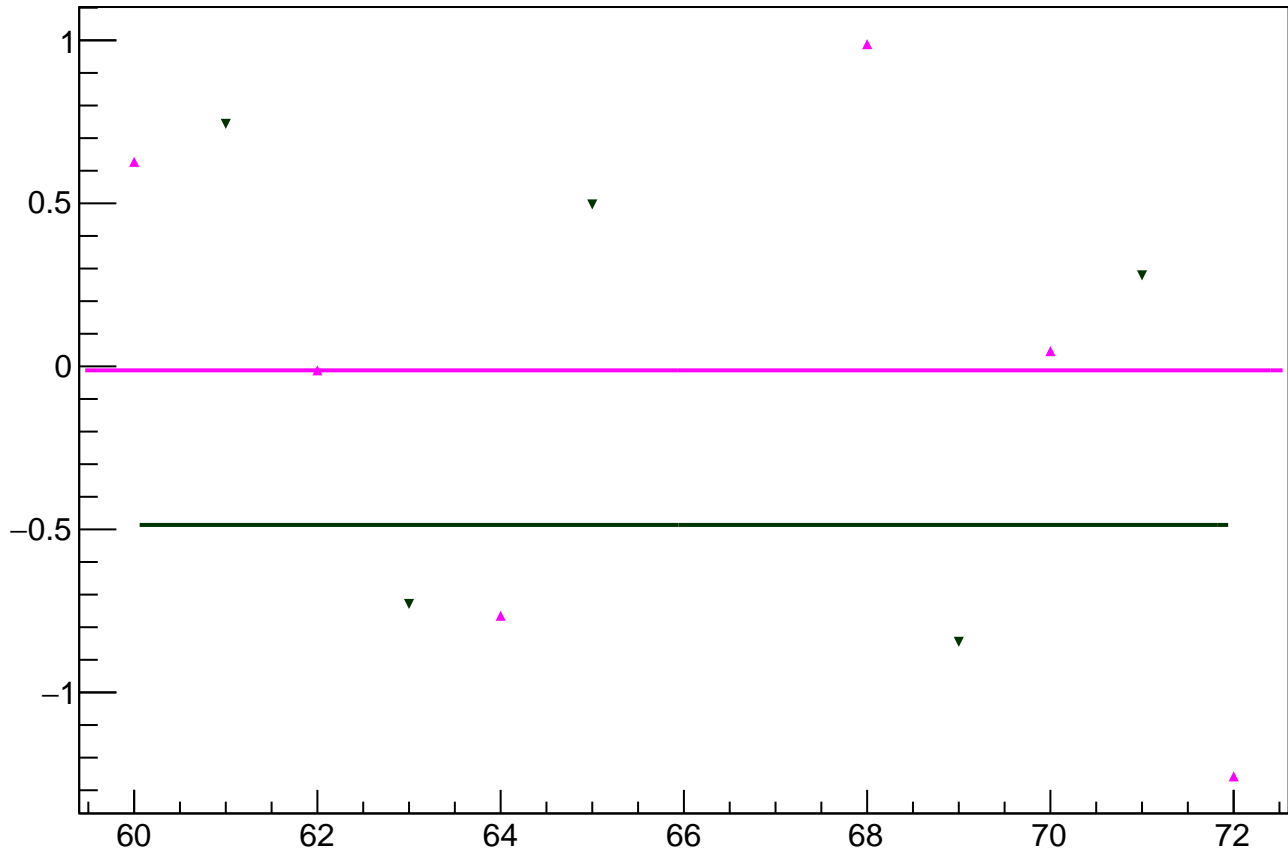
Left Out: 1.188+/-0.001  $\chi^2/\text{NDF}$ : 983530.4/4

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

1.074+/-0.001  $\chi^2/\text{NDF}$ : 1195537.9/5

Left In: 1.074+/-0.001  $\chi^2/\text{NDF}$ : 1195537.9/5

# yield\_cav4bY\_mean vs slug



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

Left Out: -0.486+/-0.000  $\chi^2/\text{NDF}$ : 1535799.4/4

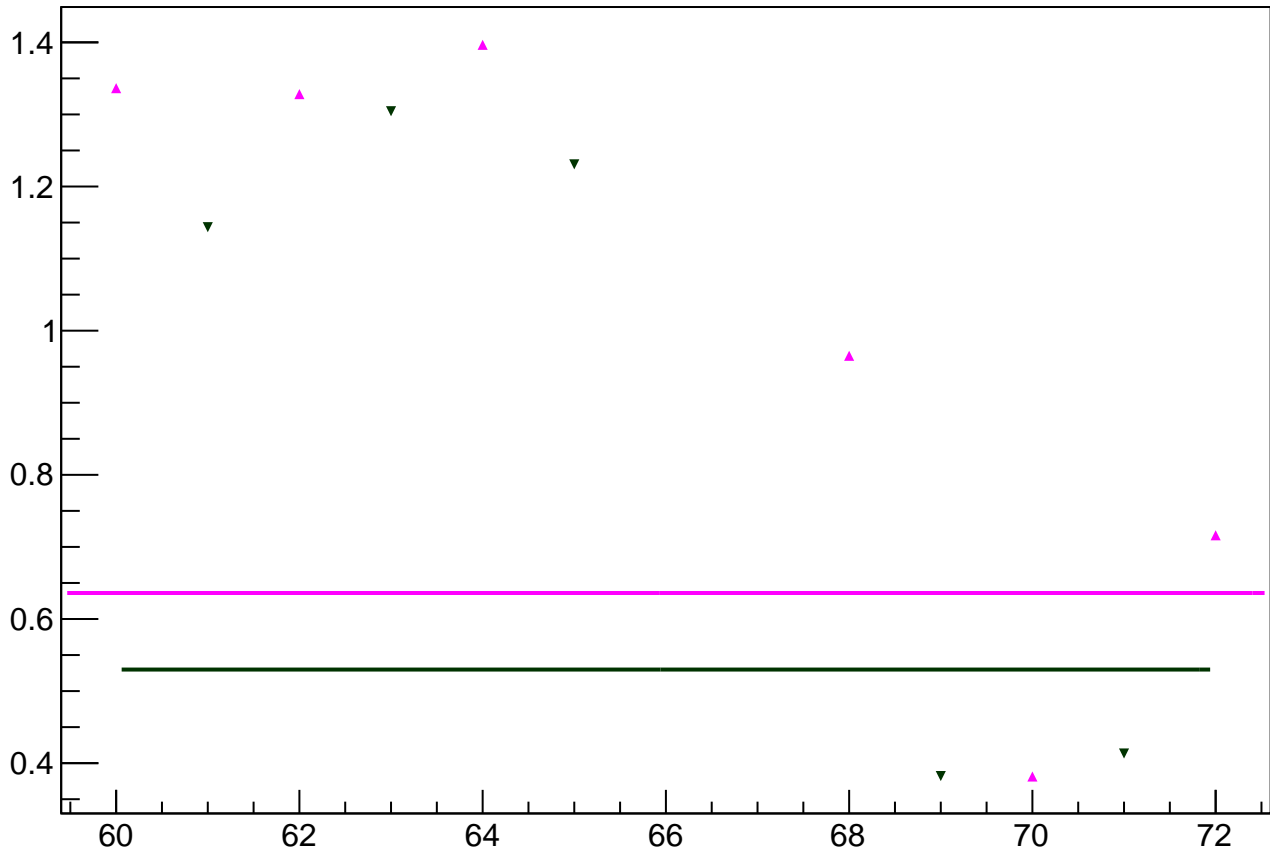
-0.486+/-0.000  $\chi^2/\text{NDF}$ : 1535799.4/4

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

-0.012+/-0.000  $\chi^2/\text{NDF}$ : 1555476.5/5

Left In: -0.012+/-0.000  $\chi^2/\text{NDF}$ : 1555476.5/5

# yield\_cav4bY\_rms vs slug



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

Left Out: 0.530+/-0.000  $\chi^2/\text{NDF}$ : 928253.4/4

0.530+/-0.000  $\chi^2/\text{NDF}$ : 928253.4/4

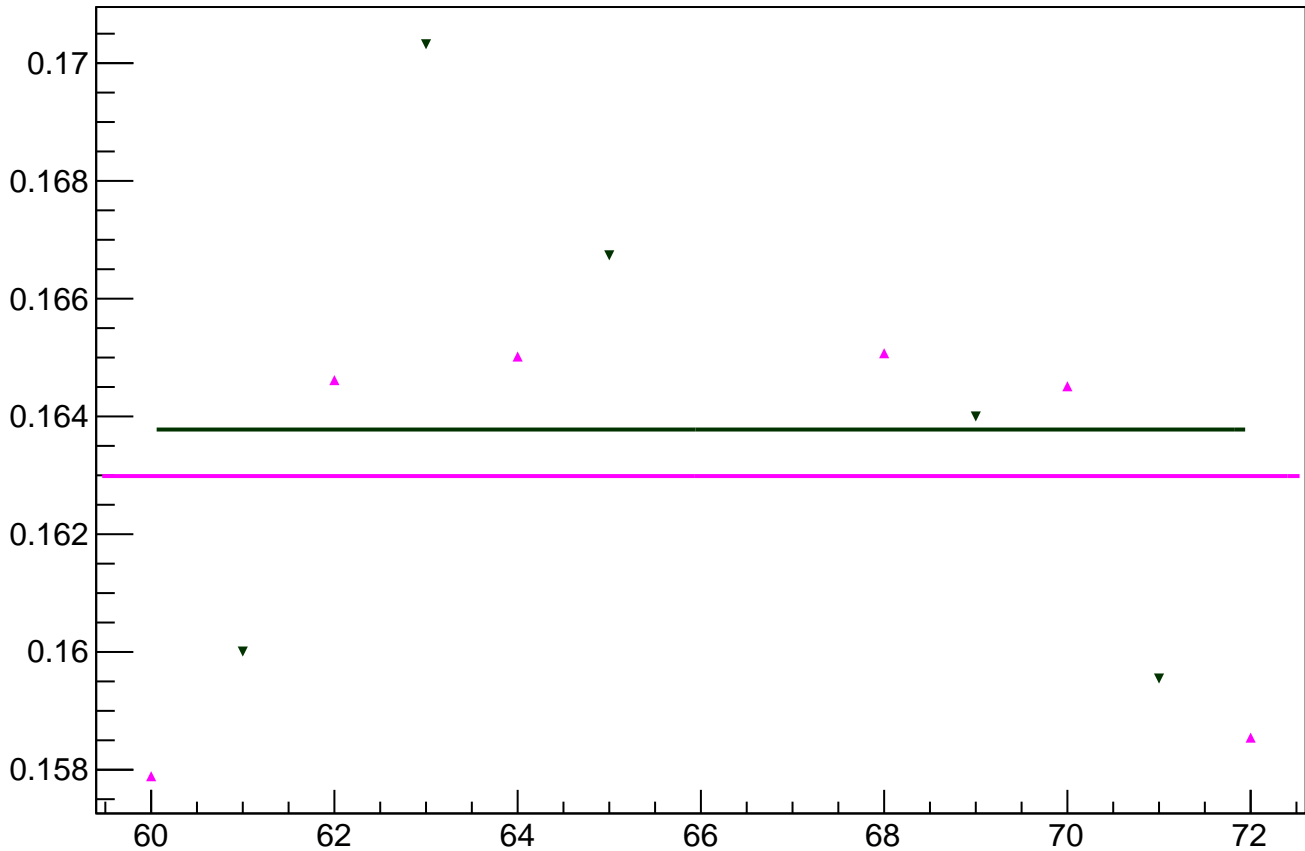
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.636+/-0.000  $\chi^2/\text{NDF}$ : 1227745.8/5

Left In: 0.636+/-0.000  $\chi^2/\text{NDF}$ : 1227745.8/5



# yield\_cav4cX\_mean vs slug



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

0.164+/-0.000  $\chi^2/\text{NDF}$ : 842129.7/4

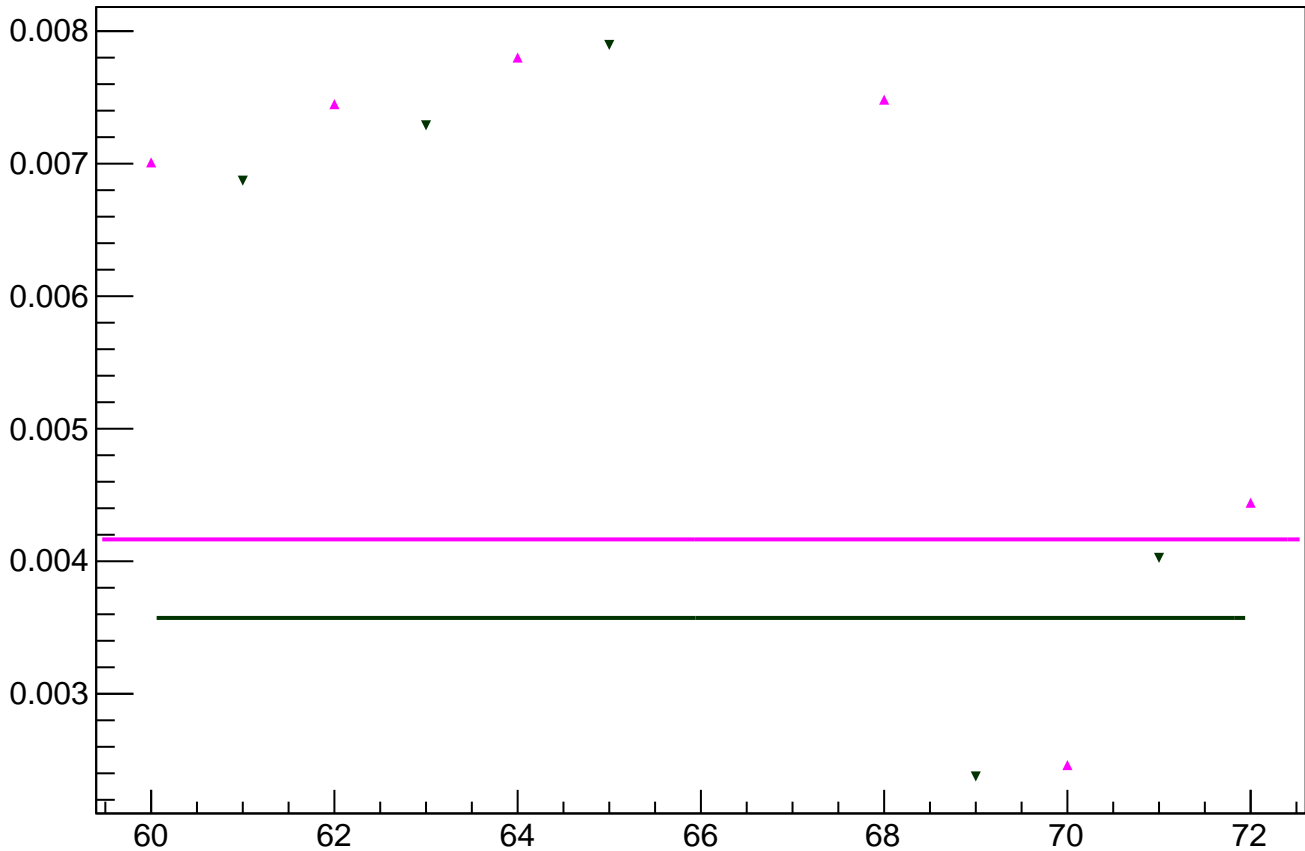
Left Out: 0.164+/-0.000  $\chi^2/\text{NDF}$ : 842129.7/4

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

0.163+/-0.000  $\chi^2/\text{NDF}$ : 927243.6/5

Left In: 0.163+/-0.000  $\chi^2/\text{NDF}$ : 927243.6/5

# yield\_cav4cX\_rms vs slug



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

Left Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 876694.9/4

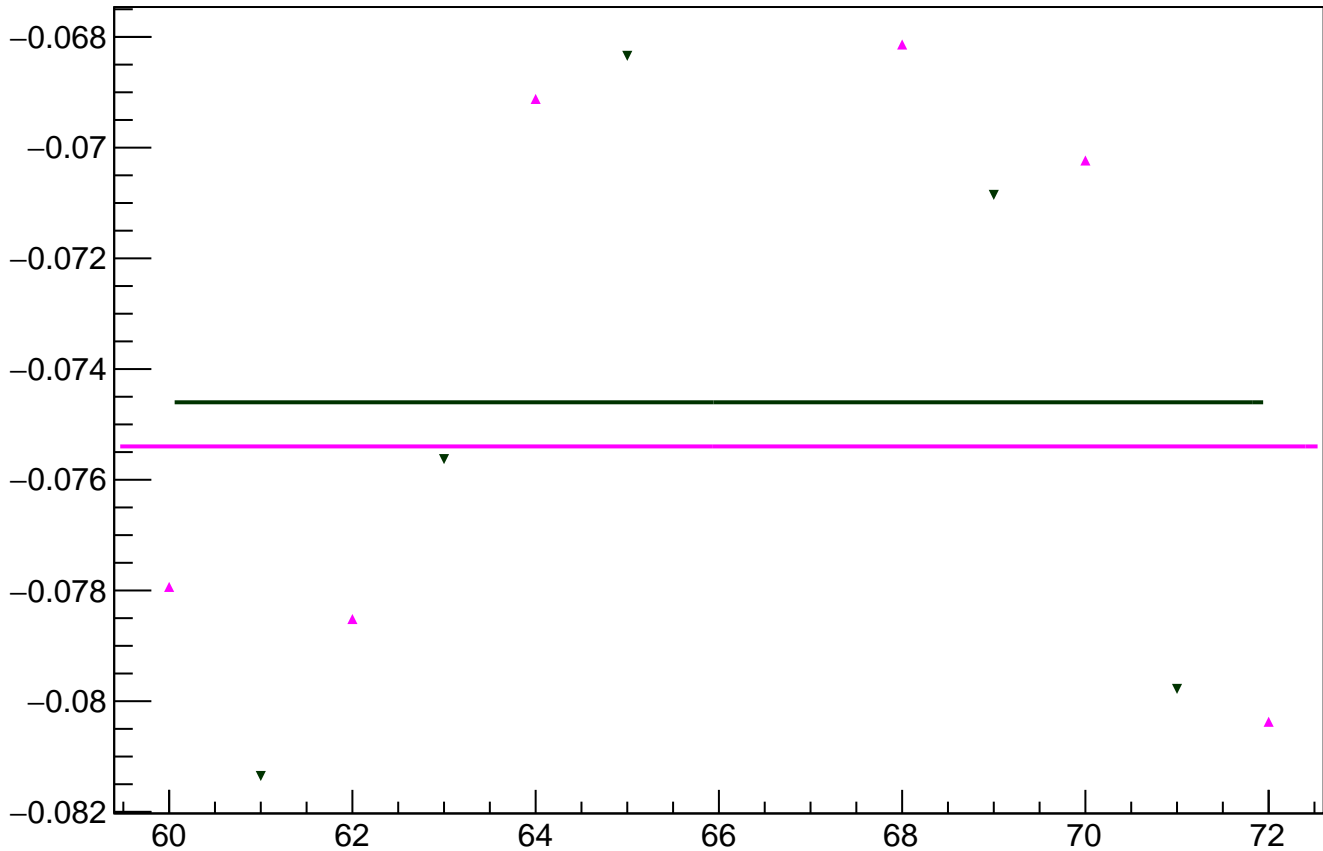
0.004+/-0.000  $\chi^2/\text{NDF}$ : 876694.9/4

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

0.004+/-0.000  $\chi^2/\text{NDF}$ : 1093606.7/5

Left In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 1093606.7/5

# yield\_cav4cY\_mean vs slug



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

Left Out: -0.075+/-0.000  $\chi^2$ /NDF:1461615.5/4

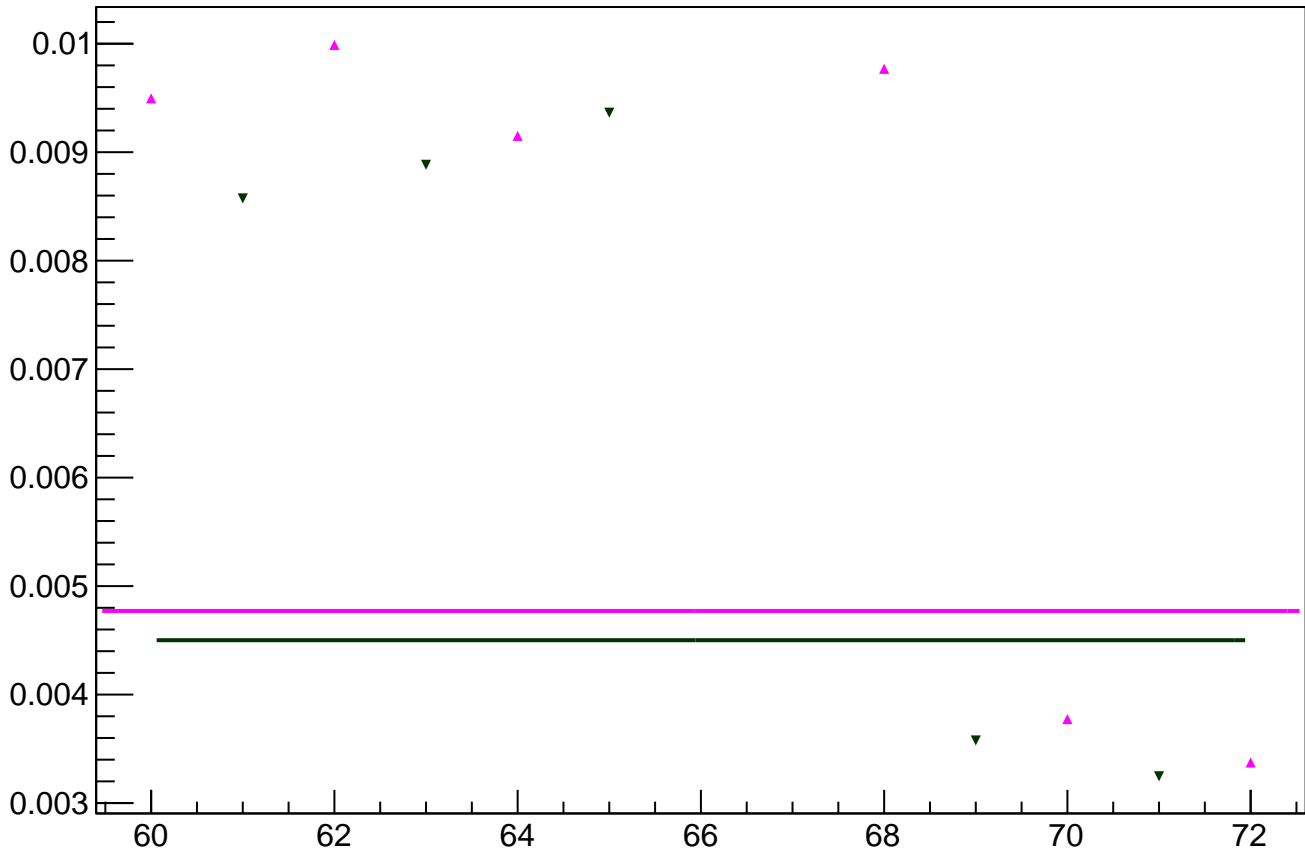
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.075+/-0.000  $\chi^2$ /NDF:2221594.0/5

-0.075+/-0.000  $\chi^2$ /NDF: 1461615.5/4

-0.075+/-0.000  $\chi^2$ /NDF: 2221594.0/5

# yield\_cav4cY\_rms vs slug



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

Left Out: 0.005+/-0.000  $\chi^2$ /NDF:671363.4/4

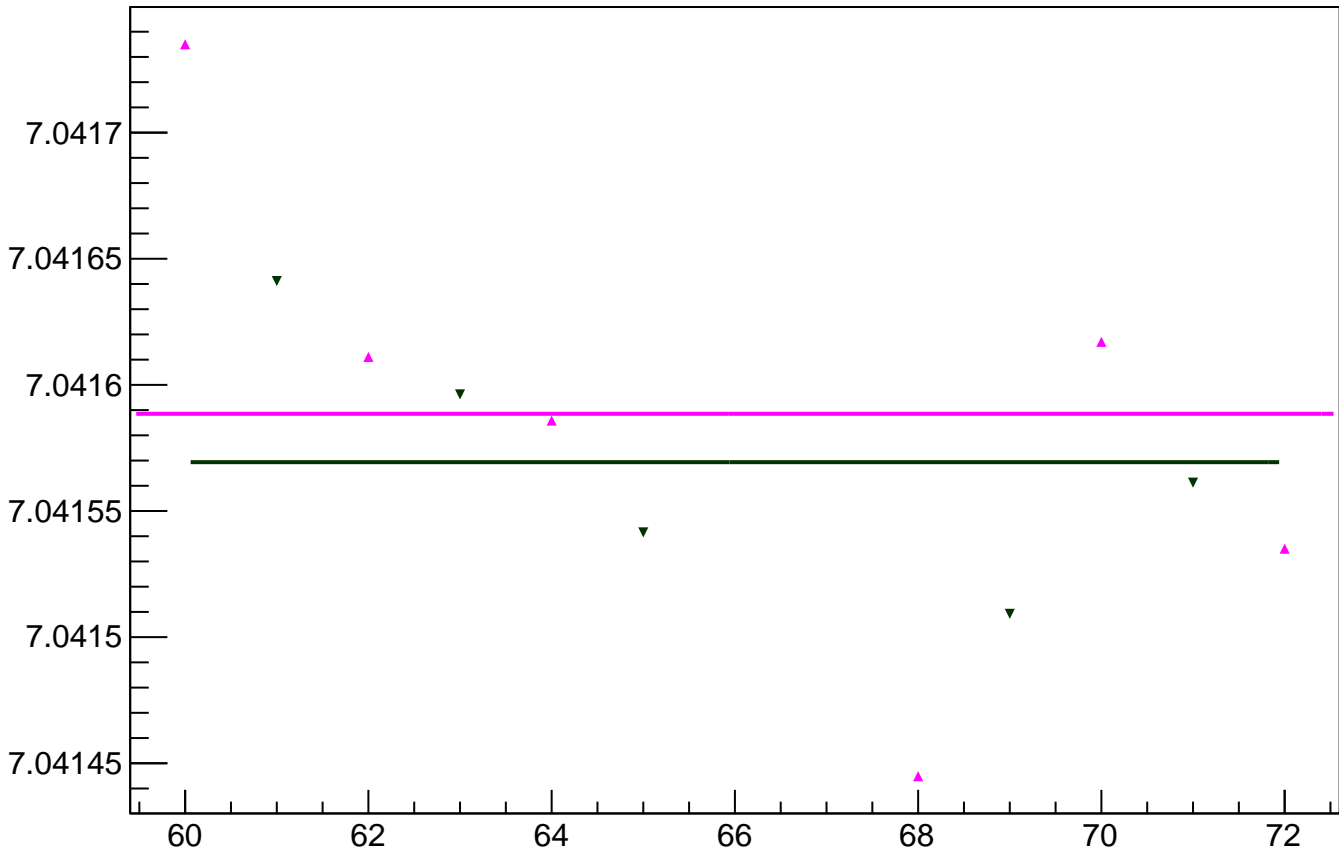
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.005+/-0.000  $\chi^2$ /NDF:1014269.6/5

0.005+/-0.000  $\chi^2$ /NDF: 671363.4/4

0.005+/-0.000  $\chi^2$ /NDF: 1014269.6/5

# yield\_cav4dX\_mean vs slug



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

7.042+/-0.000  $\chi^2/\text{NDF}$ : 169168.7/4

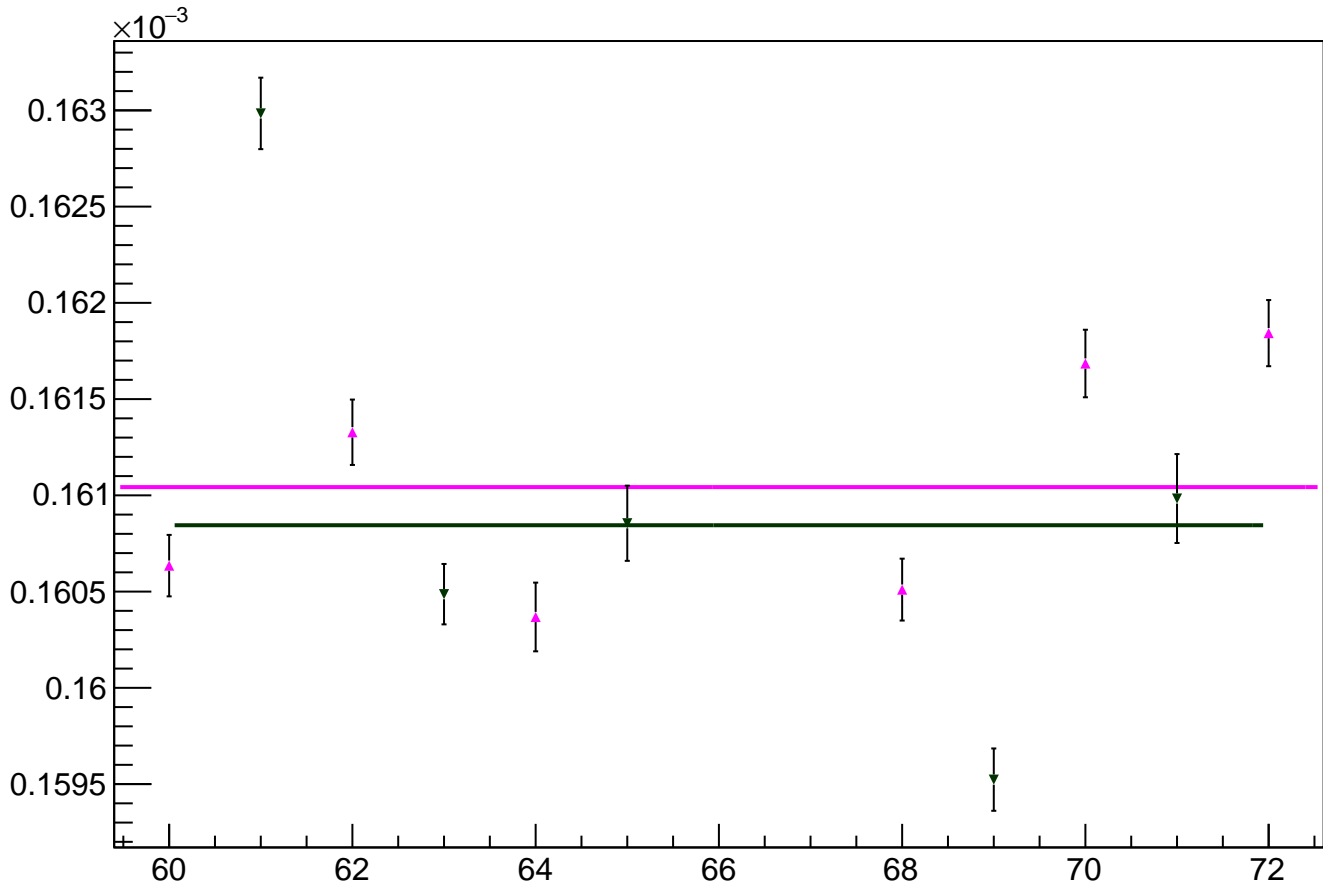
Left Out: 7.042+/-0.000  $\chi^2/\text{NDF}$ : 169168.7/4

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

7.042+/-0.000  $\chi^2/\text{NDF}$ : 891134.7/5

Left In: 7.042+/-0.000  $\chi^2/\text{NDF}$ : 891134.7/5

# 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:205.0/4

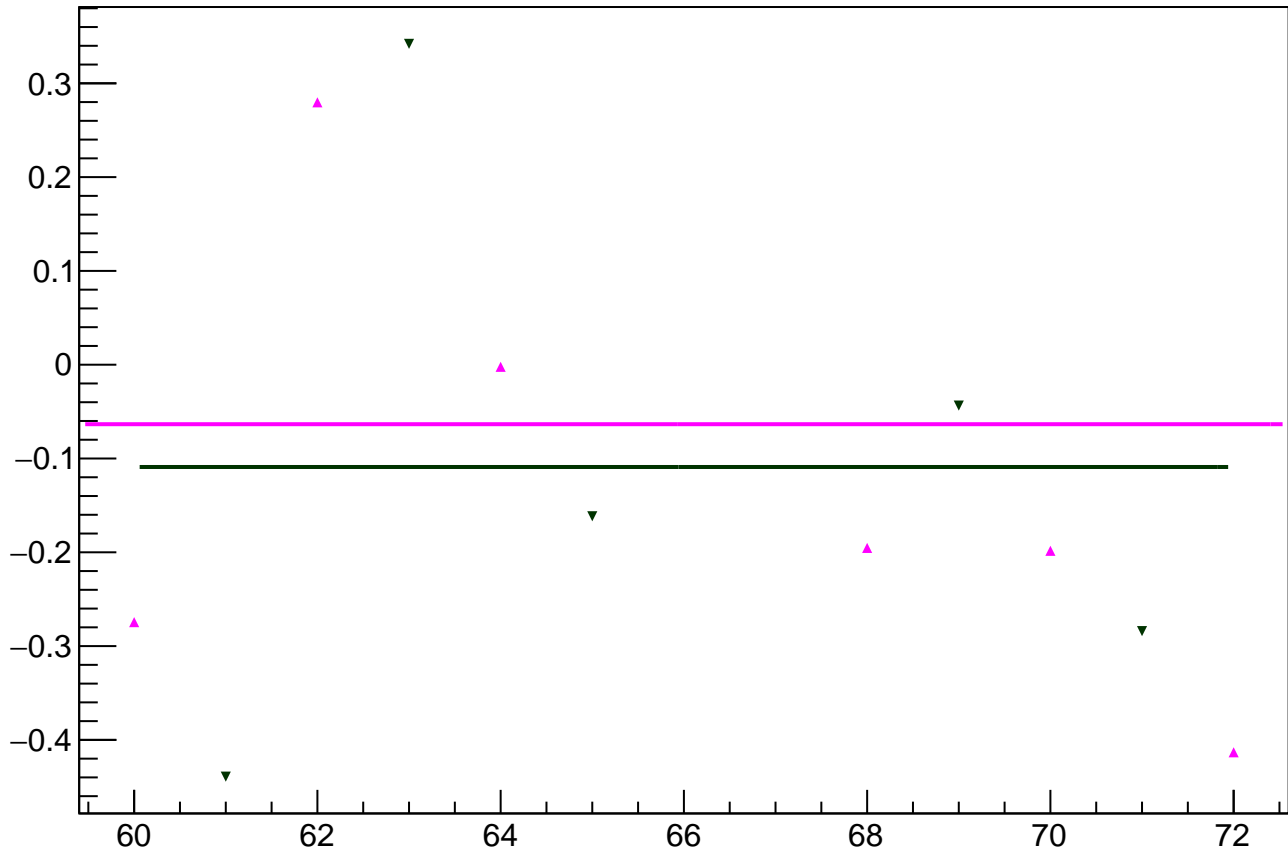
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000+/-0.000  $\chi^2$ /NDF:69.7/5

0.000+/-0.000  $\chi^2$ /NDF: 205.0/4

0.000+/-0.000  $\chi^2$ /NDF: 69.7/5

# yield\_cav4dY\_mean vs slug



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

Left Out: -0.109+/-0.000  $\chi^2/\text{NDF}$ : 10642427.8/4

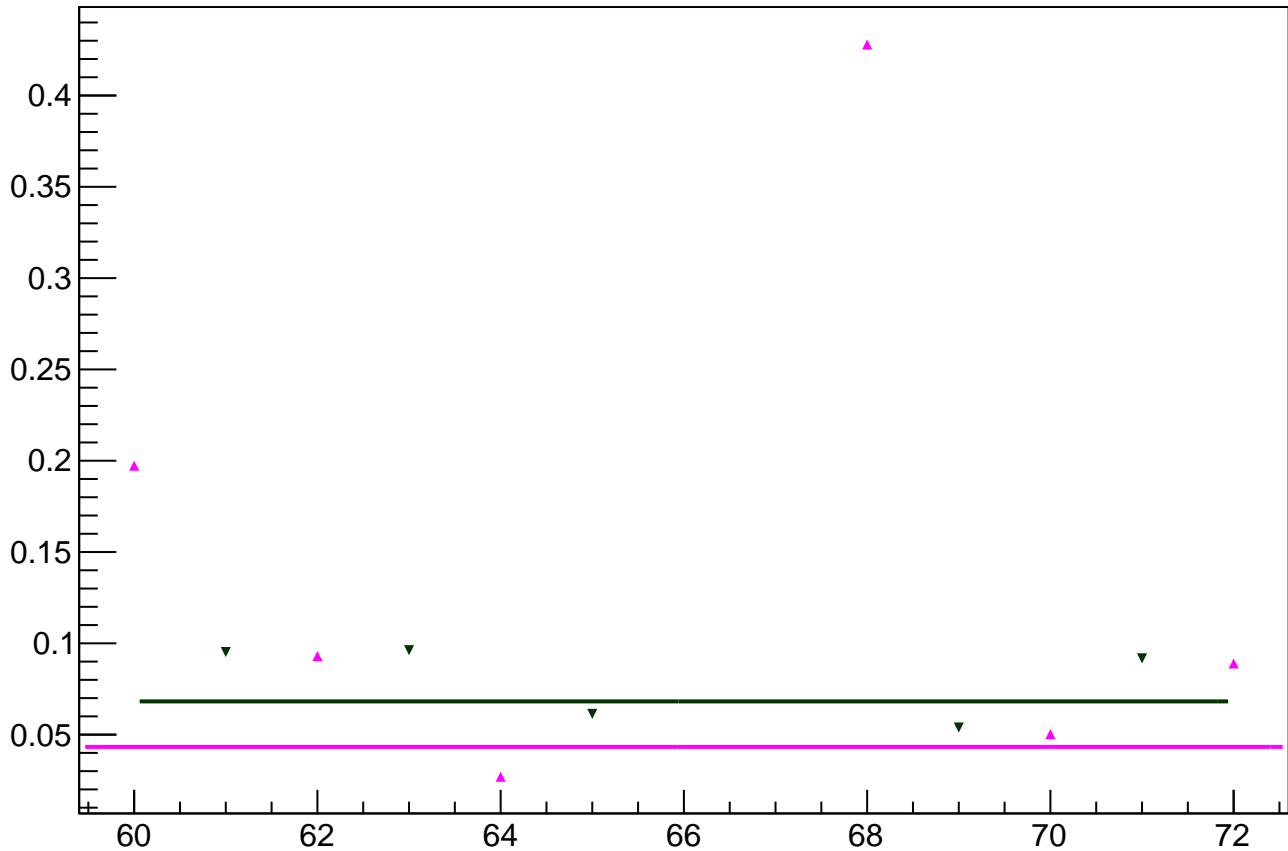
-0.109+/-0.000  $\chi^2/\text{NDF}$ : 10642427.8/4

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

-0.063+/-0.000  $\chi^2/\text{NDF}$ : 13455113.0/5

Left In: -0.063+/-0.000  $\chi^2/\text{NDF}$ : 13455113.0/5

# yield\_cav4dY\_rms vs slug



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

Left Out: 0.068+/-0.000  $\chi^2/\text{NDF}$ :172653.5/4

0.068+/-0.000  $\chi^2/\text{NDF}$ : 172653.5/4

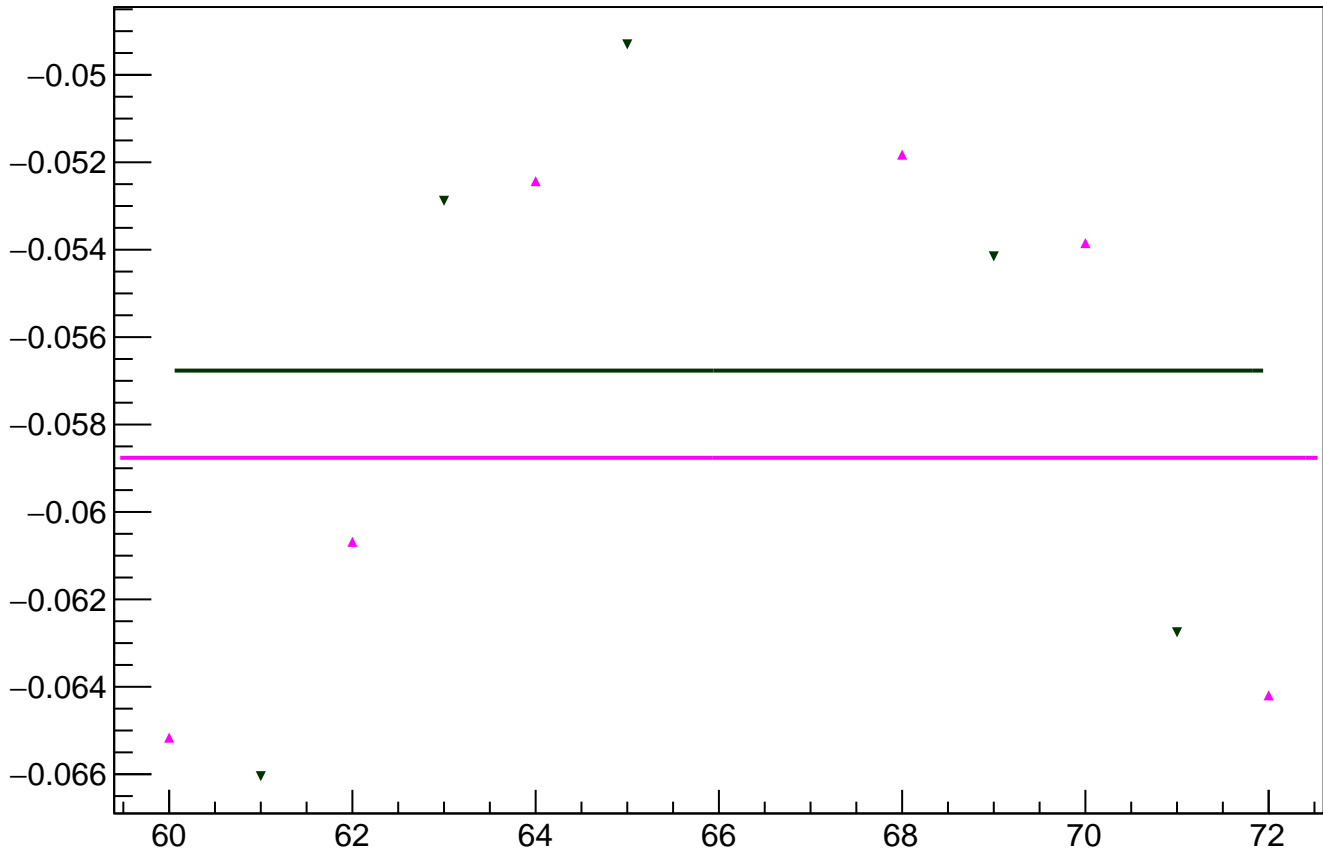
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.043+/-0.000  $\chi^2/\text{NDF}$ :1760376.5/5

0.043+/-0.000  $\chi^2/\text{NDF}$ : 1760376.5/5



# yield\_bpm4aX\_mean vs slug



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

Left Out: -0.057+/-0.000  $\chi^2$ /NDF:938309.9/4

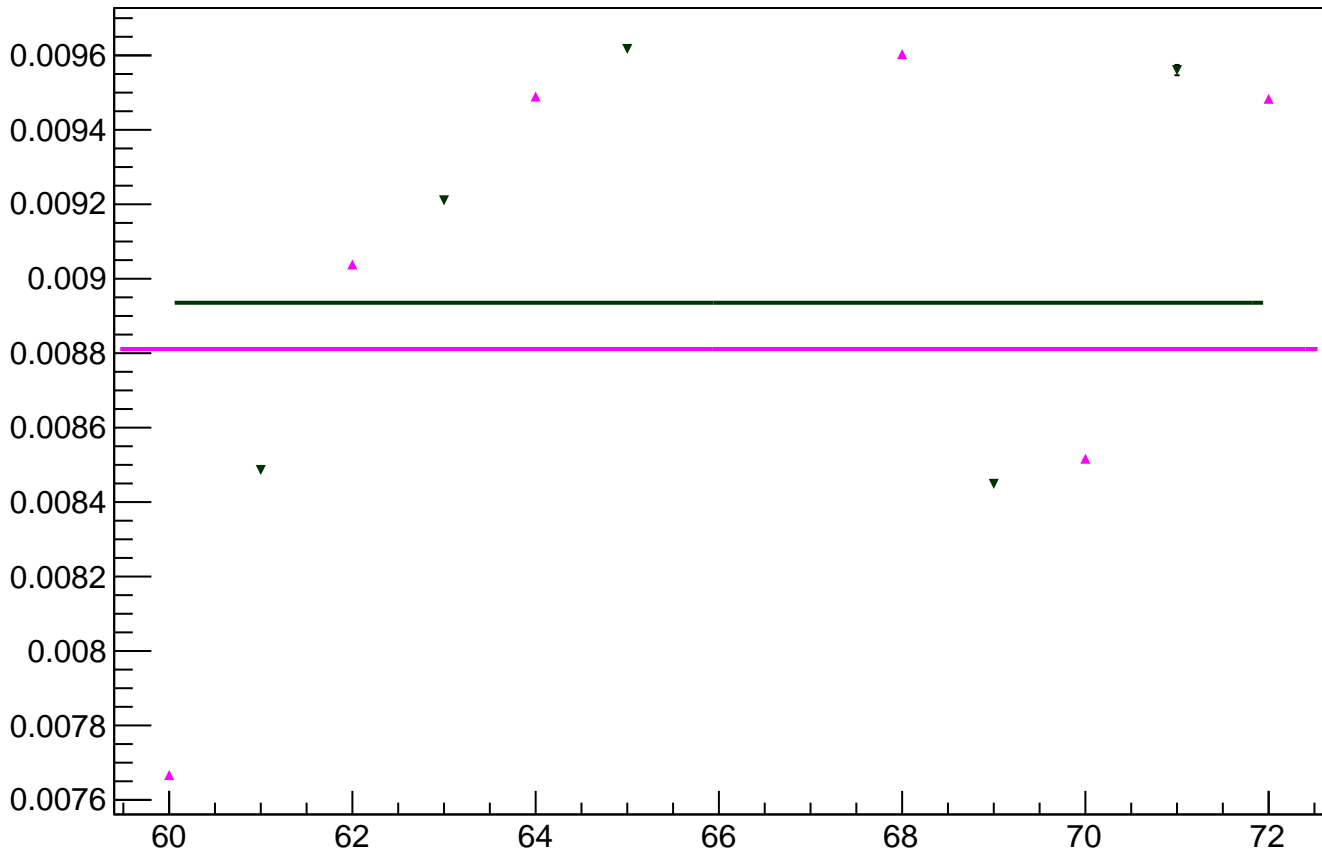
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.059+/-0.000  $\chi^2$ /NDF:1122344.9/5

-0.057+/-0.000  $\chi^2$ /NDF: 938309.9/4

-0.059+/-0.000  $\chi^2$ /NDF: 1122344.9/5

# yield\_bpm4aX\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2$ /NDF:11976.7/4

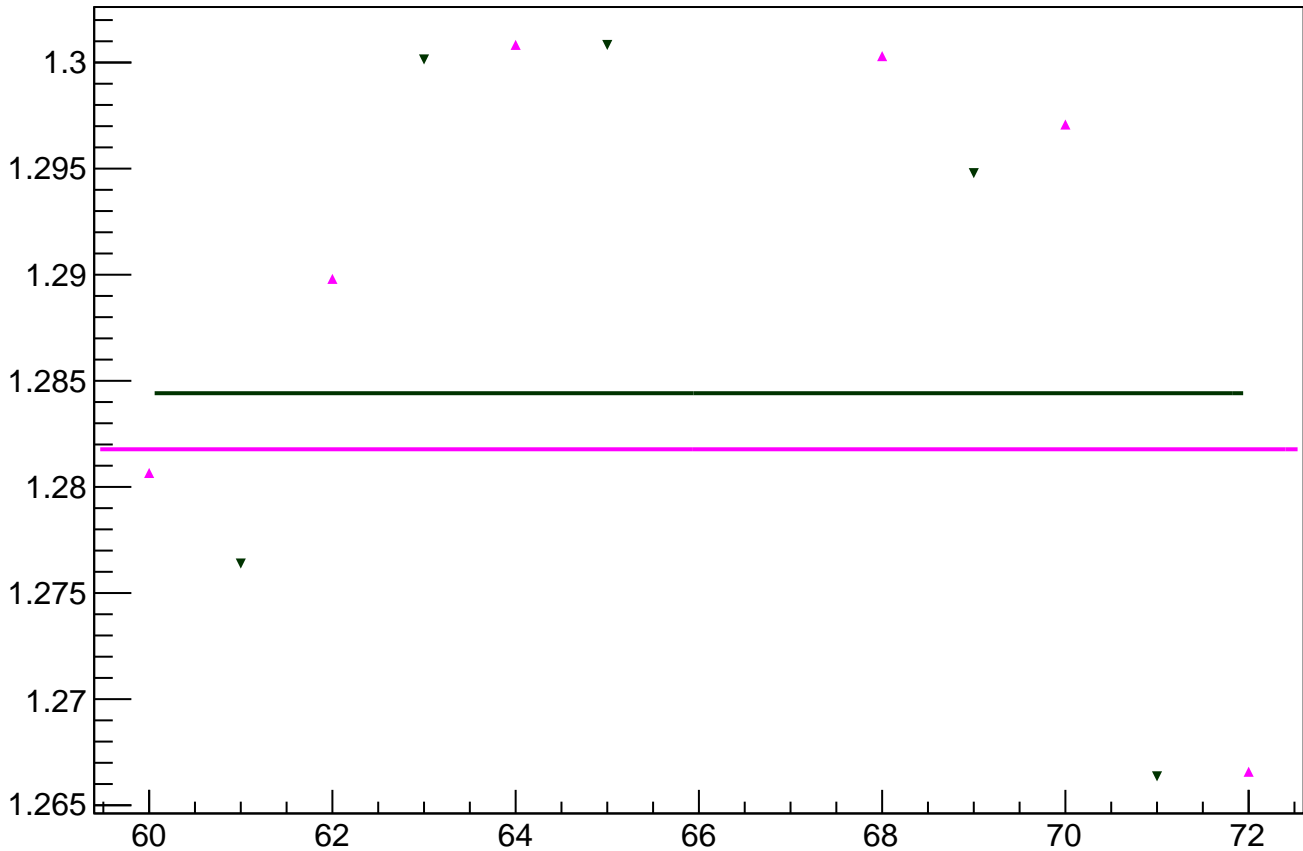
0.009+/-0.000  $\chi^2$ /NDF: 11976.7/4

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

0.009+/-0.000  $\chi^2$ /NDF: 40702.5/5

Left In: 0.009+/-0.000  $\chi^2$ /NDF:40702.5/5

# yield\_bpm4aY\_mean vs slug



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

Left Out: 1.284+/-0.000  $\chi^2$ /NDF:1261029.9/4

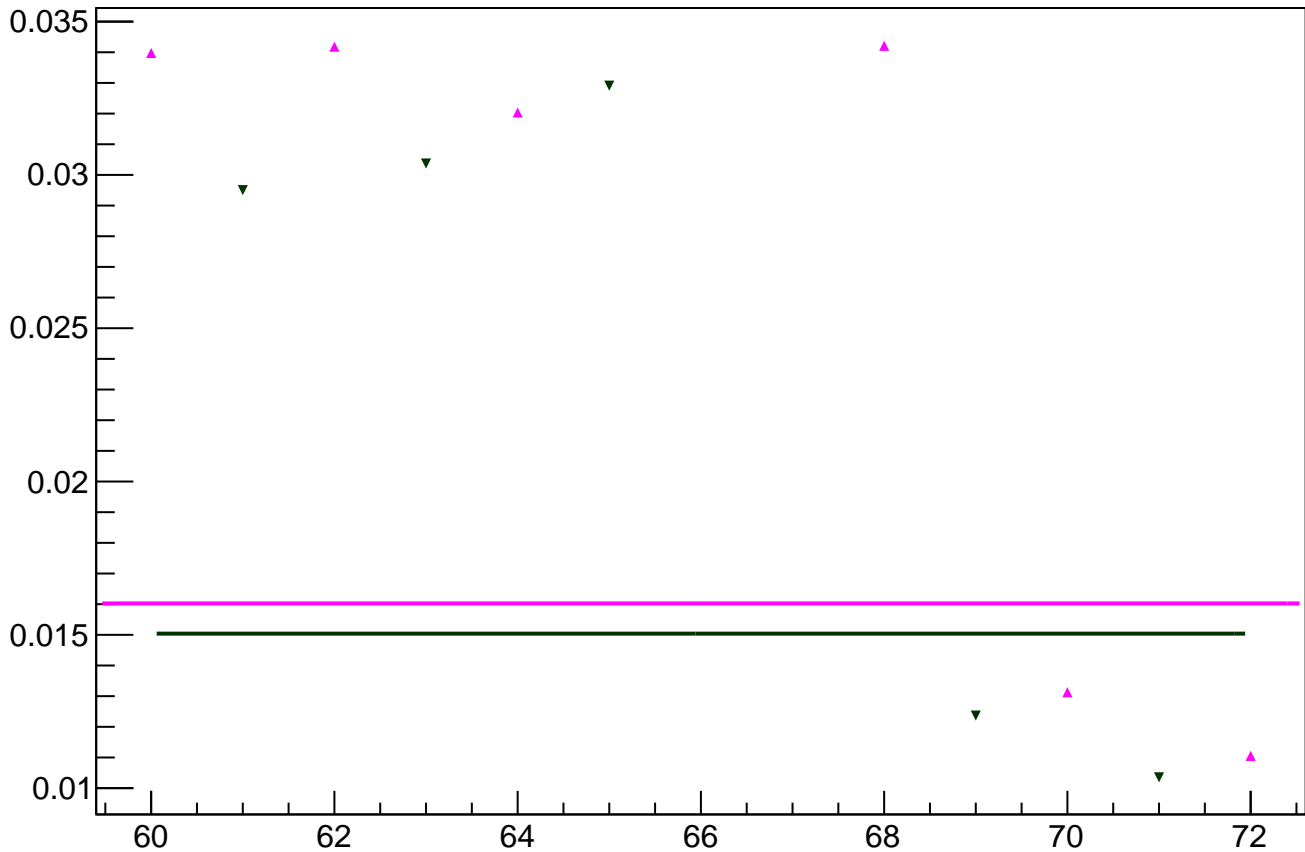
1.284+/-0.000  $\chi^2$ /NDF: 1261029.9/4

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

1.282+/-0.000  $\chi^2$ /NDF: 1667933.6/5

Left In: 1.282+/-0.000  $\chi^2$ /NDF:1667933.6/5

# yield\_bpm4aY\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2$ /NDF:715115.9/4

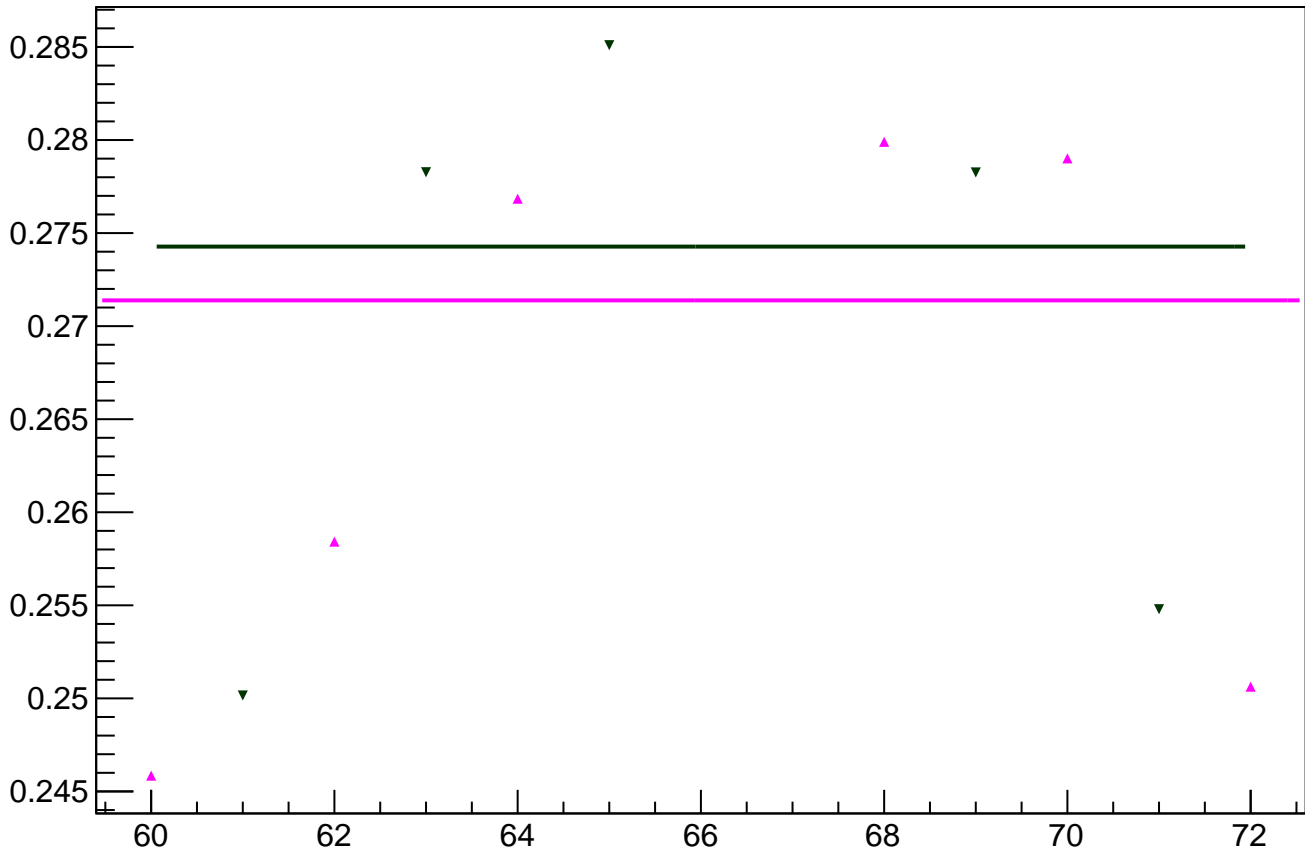
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.016+/-0.000  $\chi^2$ /NDF:1083464.5/5

0.015+/-0.000  $\chi^2$ /NDF: 715115.9/4

0.016+/-0.000  $\chi^2$ /NDF: 1083464.5/5

# yield\_bpm4eX\_mean vs slug



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

Left Out: 0.274+/-0.000  $\chi^2/\text{NDF}$ : 424363.3/4

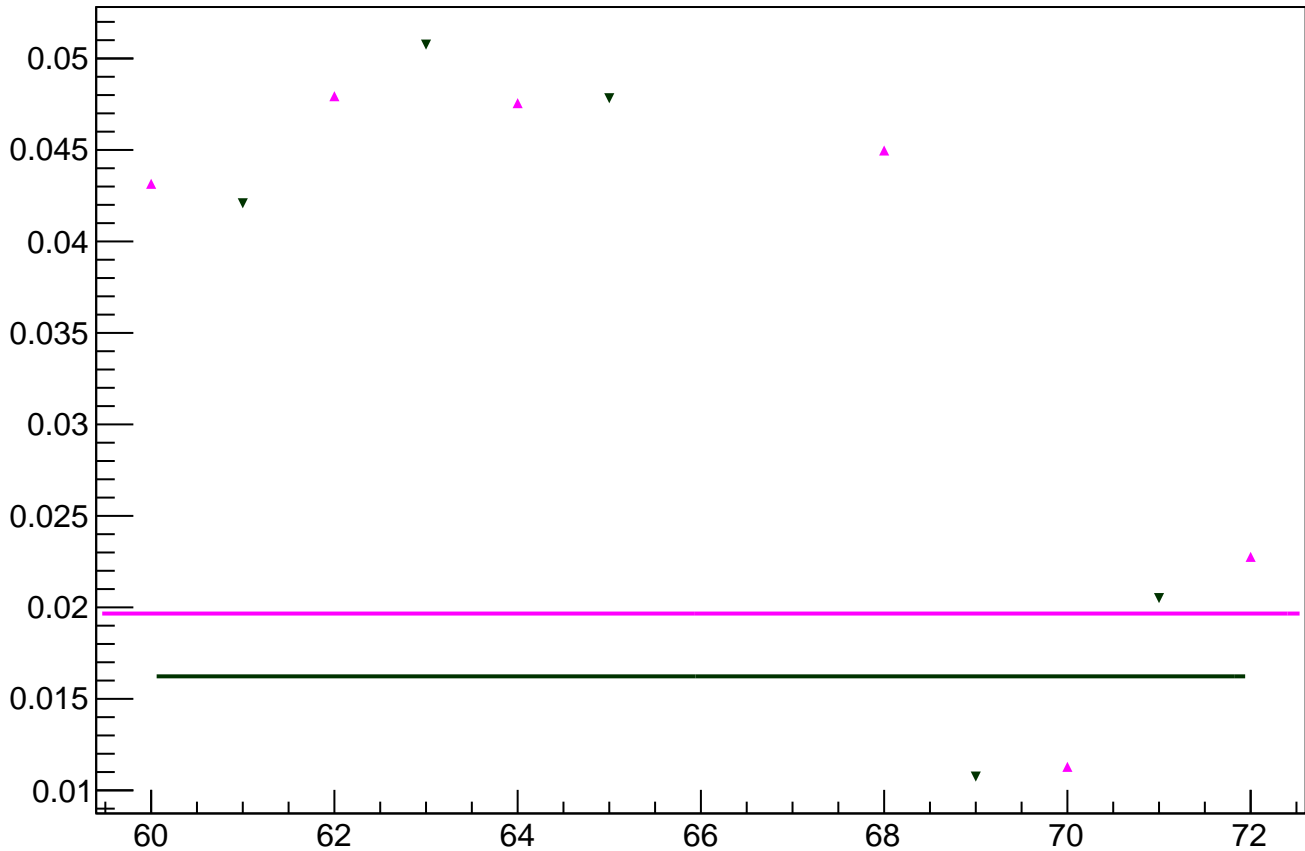
0.274+/-0.000  $\chi^2/\text{NDF}$ : 424363.3/4

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

0.271+/-0.000  $\chi^2/\text{NDF}$ : 747928.7/5

Left In: 0.271+/-0.000  $\chi^2/\text{NDF}$ : 747928.7/5

# yield\_bpm4eX\_rms vs slug



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

Left Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ :1284195.2/4

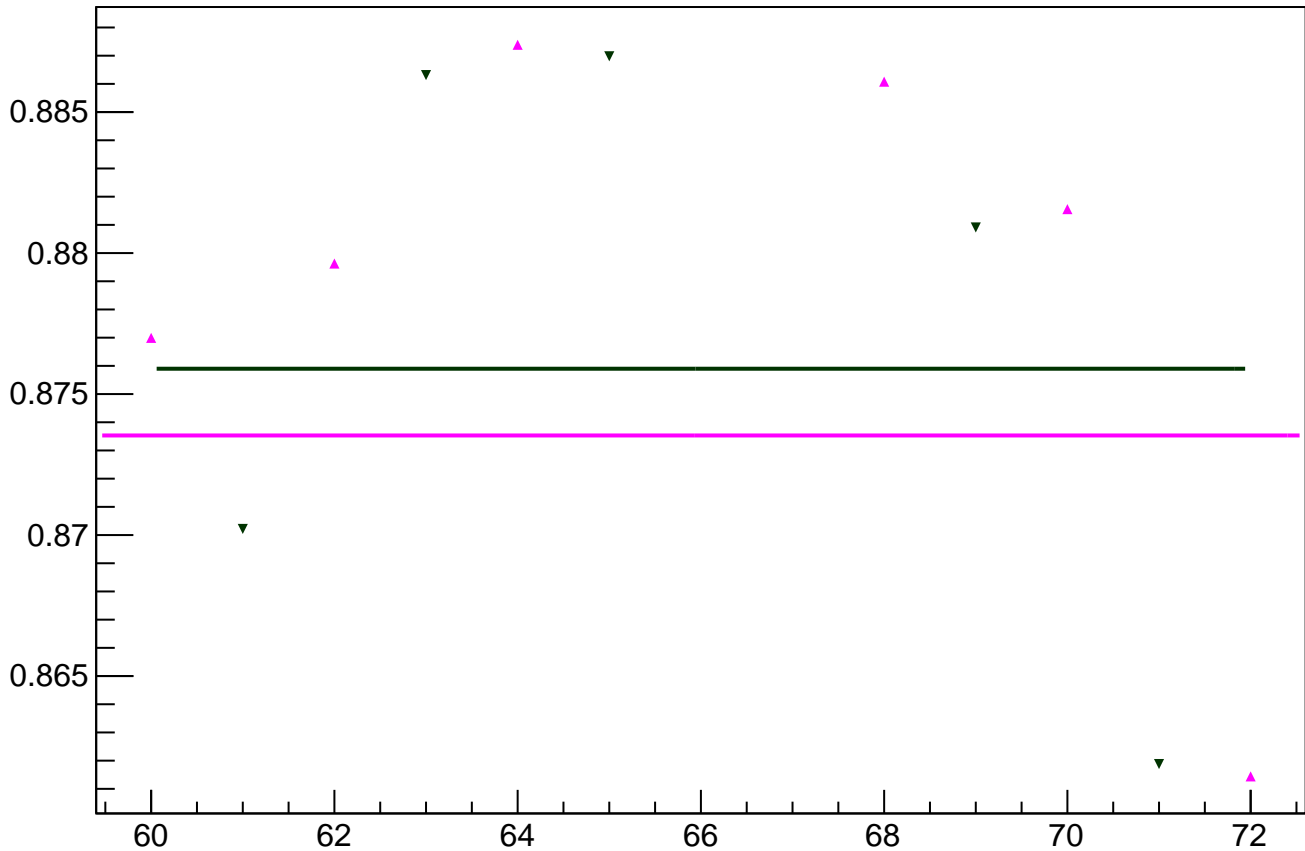
0.016+/-0.000  $\chi^2/\text{NDF}$ : 1284195.2/4

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

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1619195.1/5

Left In: 0.020+/-0.000  $\chi^2/\text{NDF}$ :1619195.1/5

# yield\_bpm4eY\_mean vs slug



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

0.876+/-0.000  $\chi^2/\text{NDF}$ : 683731.2/4

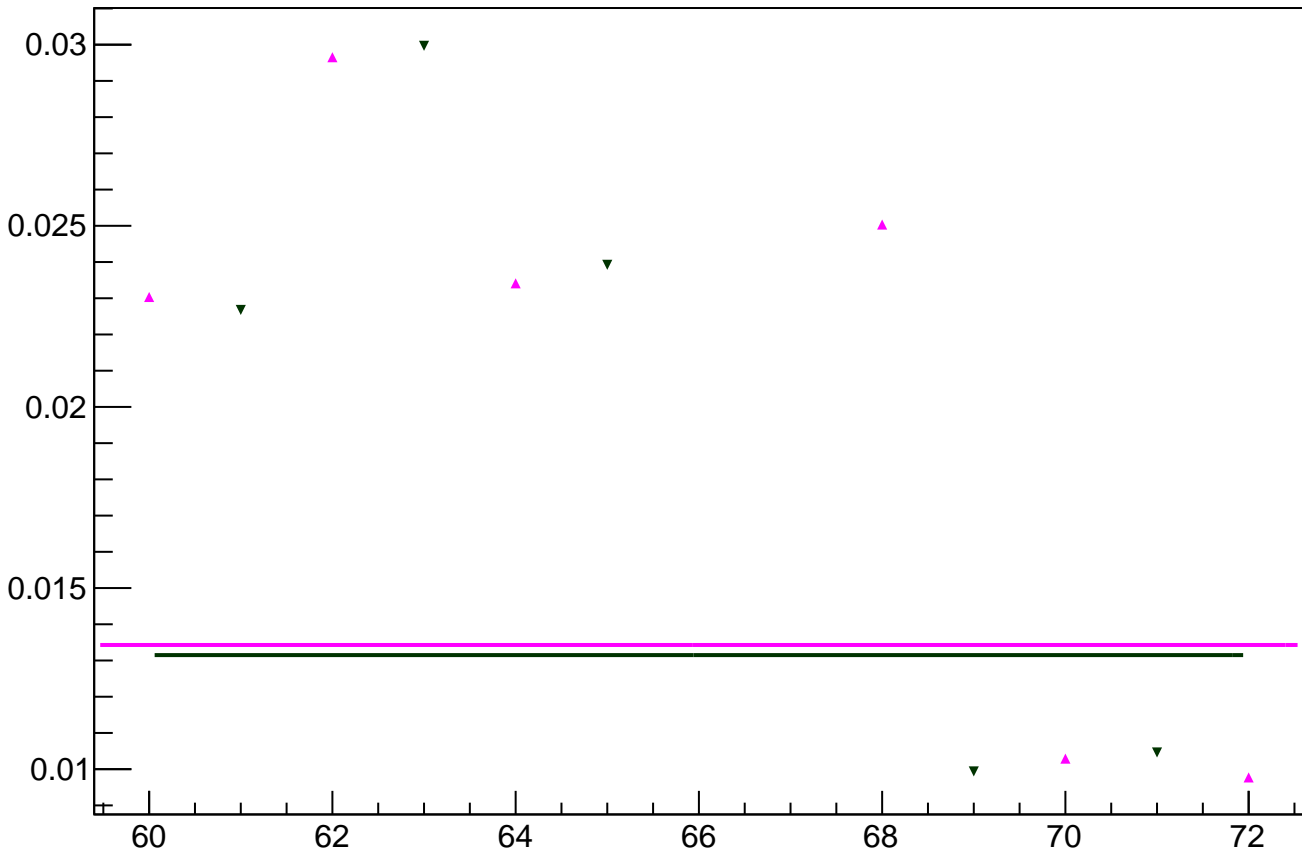
Left Out: 0.876+/-0.000  $\chi^2/\text{NDF}$ : 683731.2/4

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

0.874+/-0.000  $\chi^2/\text{NDF}$ : 1192043.6/5

Left In: 0.874+/-0.000  $\chi^2/\text{NDF}$ : 1192043.6/5

# yield\_bpm4eY\_rms vs slug



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

Left Out: 0.013+/-0.000  $\chi^2$ /NDF:663804.1/4

0.013+/-0.000  $\chi^2$ /NDF: 663804.1/4

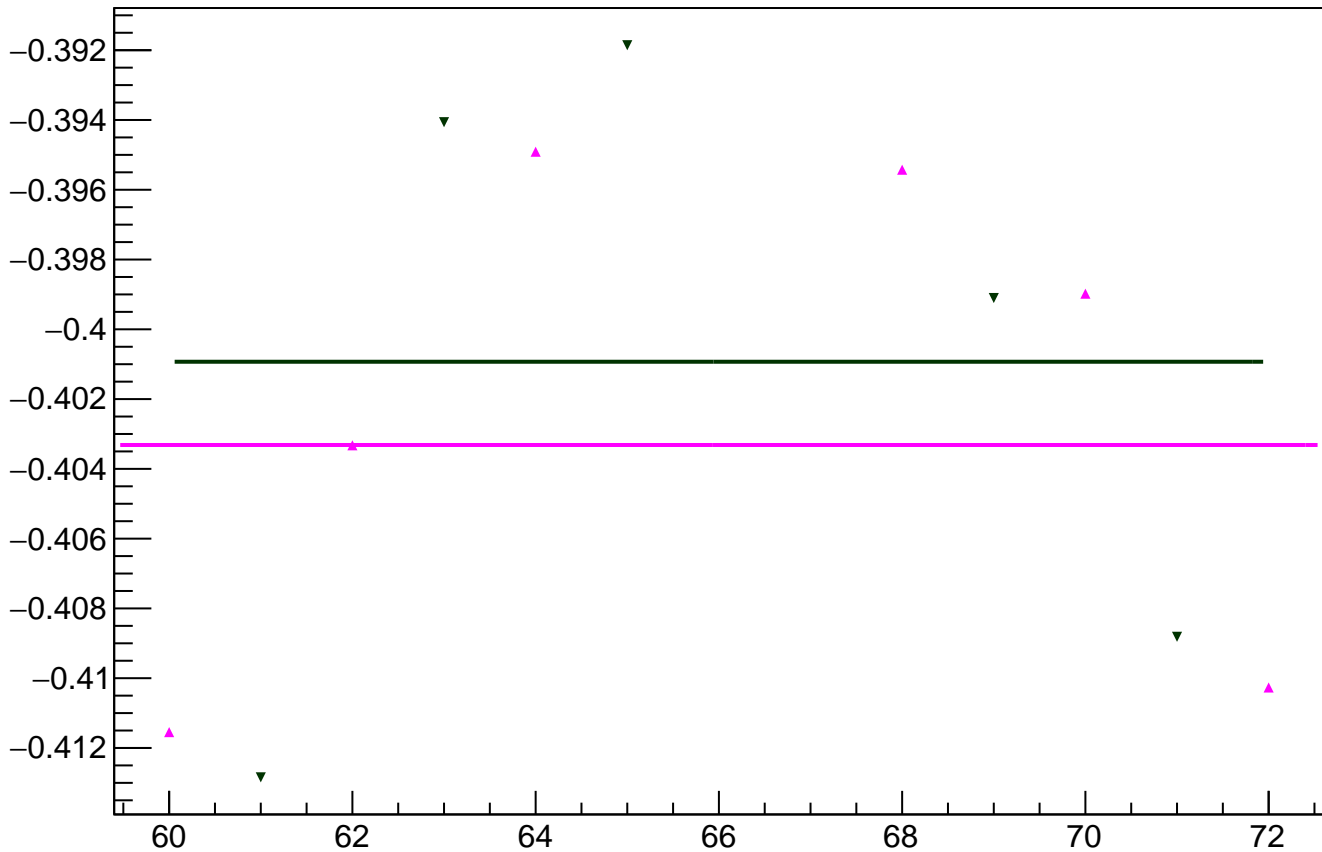
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

0.013+/-0.000  $\chi^2$ /NDF: 899811.9/5

Left In: 0.013+/-0.000  $\chi^2$ /NDF:899811.9/5



# yield\_bpm4acX\_mean vs slug



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

Left Out: -0.401+/-0.000  $\chi^2$ /NDF: 1649402.5/4

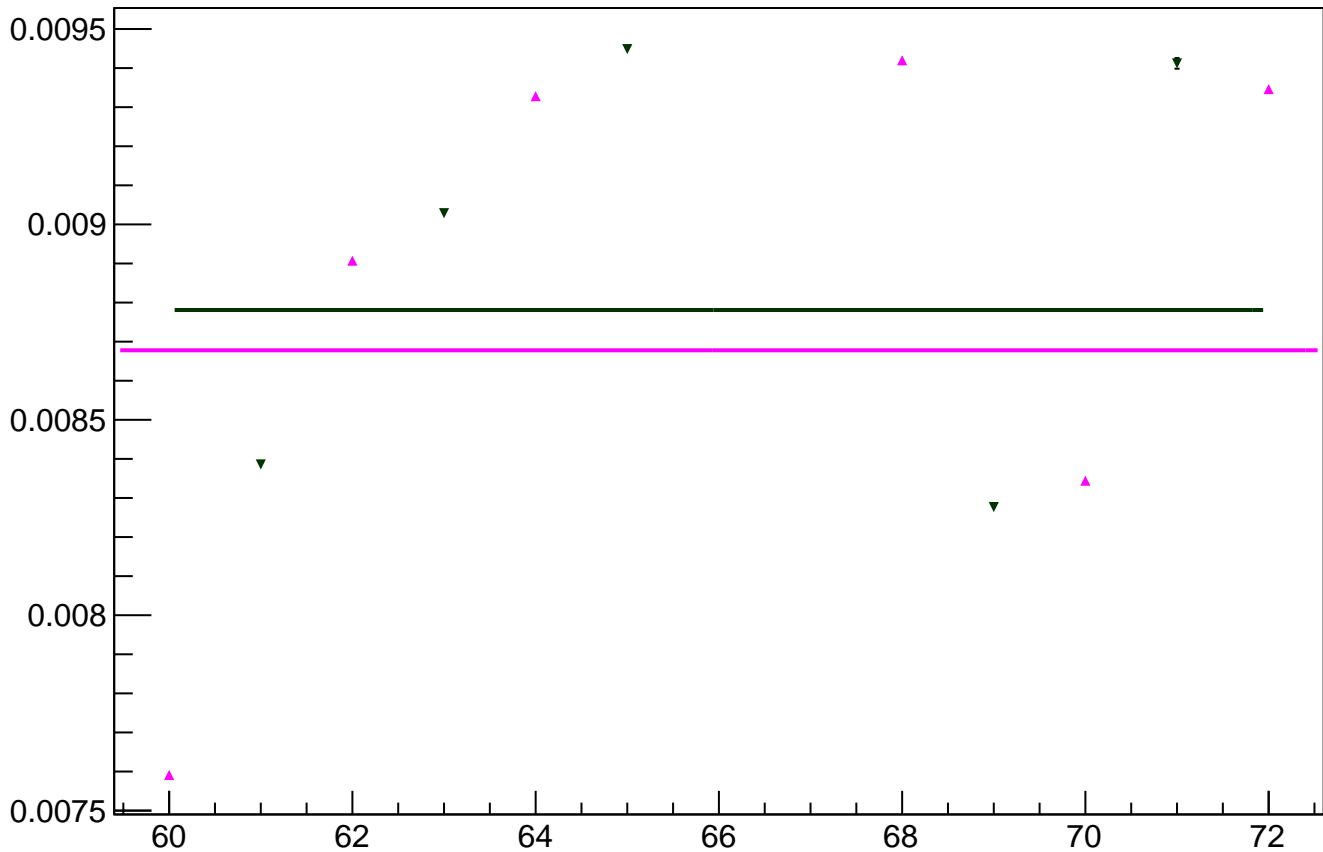
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -0.403+/-0.000  $\chi^2$ /NDF: 1671208.4/5

-0.401+/-0.000  $\chi^2$ /NDF: 1649402.5/4

-0.403+/-0.000  $\chi^2$ /NDF: 1671208.4/5

# yield\_bpm4acX\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 11805.9/4

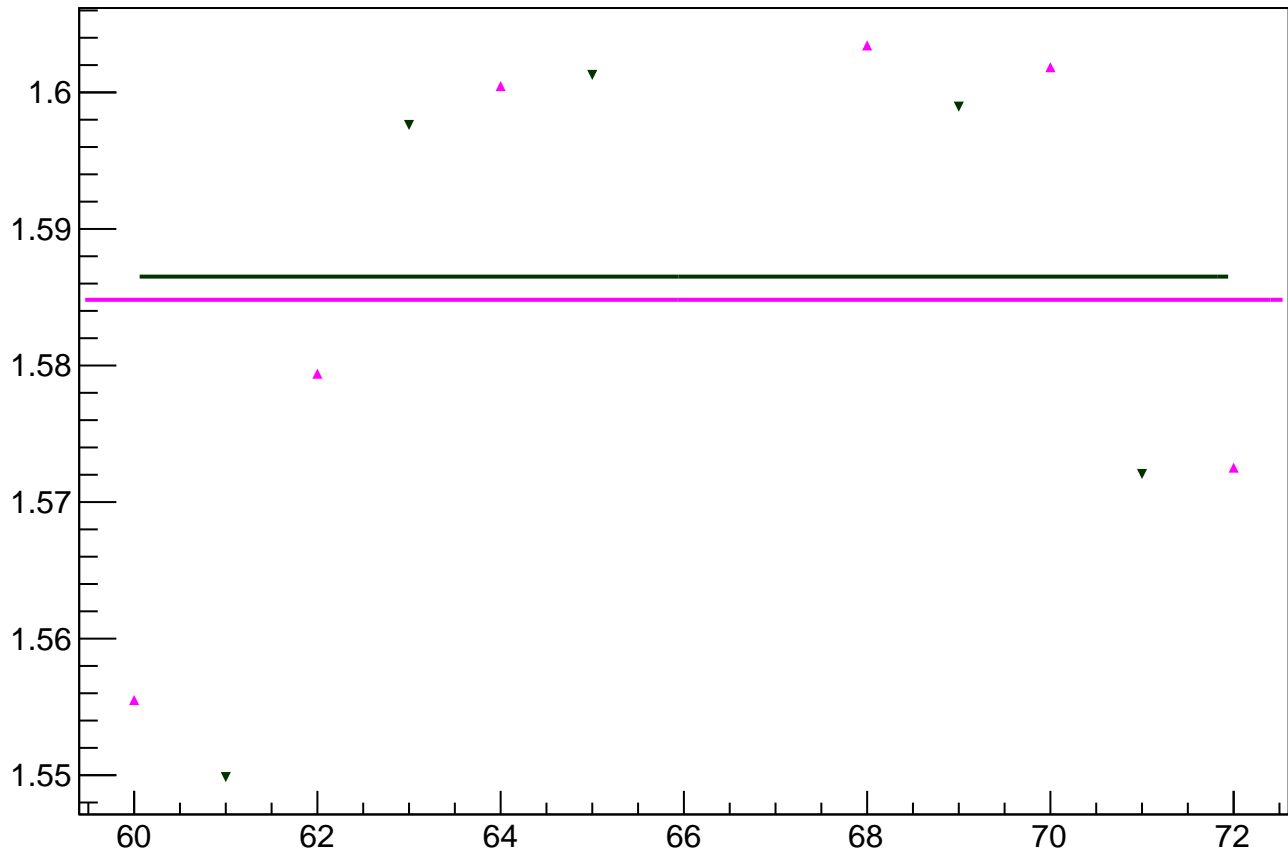
0.009+/-0.000  $\chi^2/\text{NDF}$ : 11805.9/4

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

0.009+/-0.000  $\chi^2/\text{NDF}$ : 38461.1/5

Left In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 38461.1/5

# yield\_bpm4acY\_mean vs slug



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

Left Out: 1.587+/-0.000  $\chi^2$ /NDF:1543783.8/4

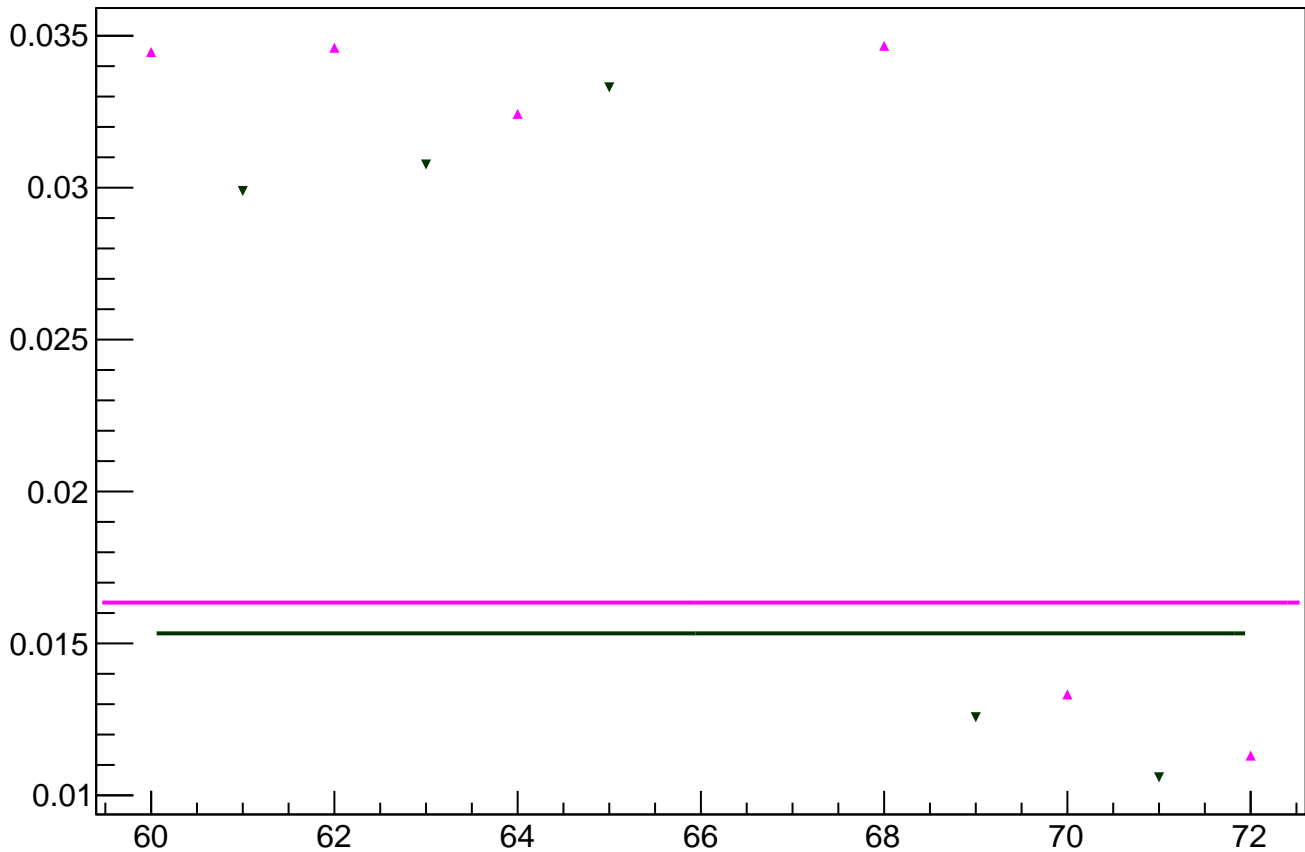
1.587+/-0.000  $\chi^2$ /NDF: 1543783.8/4

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

1.585+/-0.000  $\chi^2$ /NDF: 1704013.0/5

Left In: 1.585+/-0.000  $\chi^2$ /NDF:1704013.0/5

# yield\_bpm4acY\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 707155.4/4

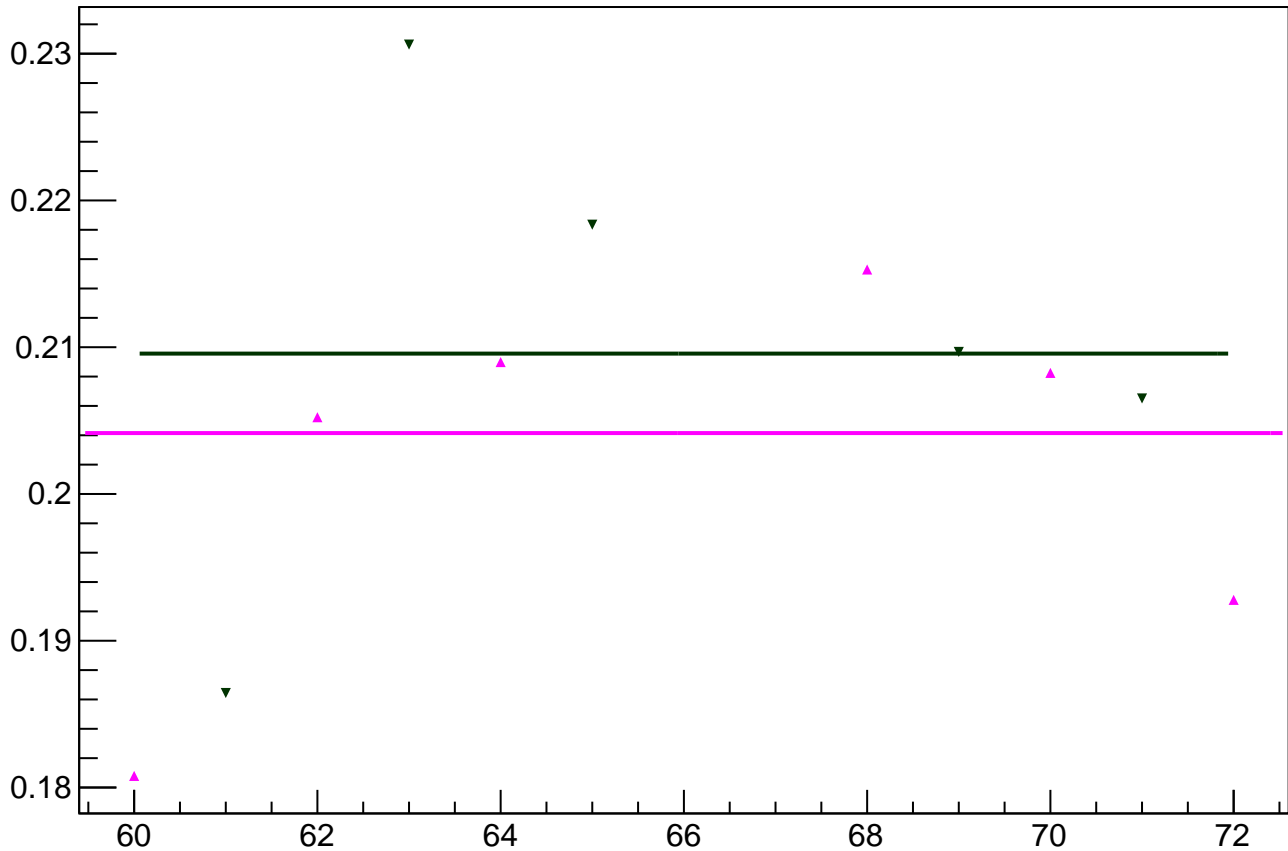
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1072784.6/5

0.015+/-0.000  $\chi^2/\text{NDF}$ : 707155.4/4

0.016+/-0.000  $\chi^2/\text{NDF}$ : 1072784.6/5

# yield\_bpm4ecX\_mean vs slug



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

Left Out: 0.210+/-0.000  $\chi^2/\text{NDF}$ :253924.4/4

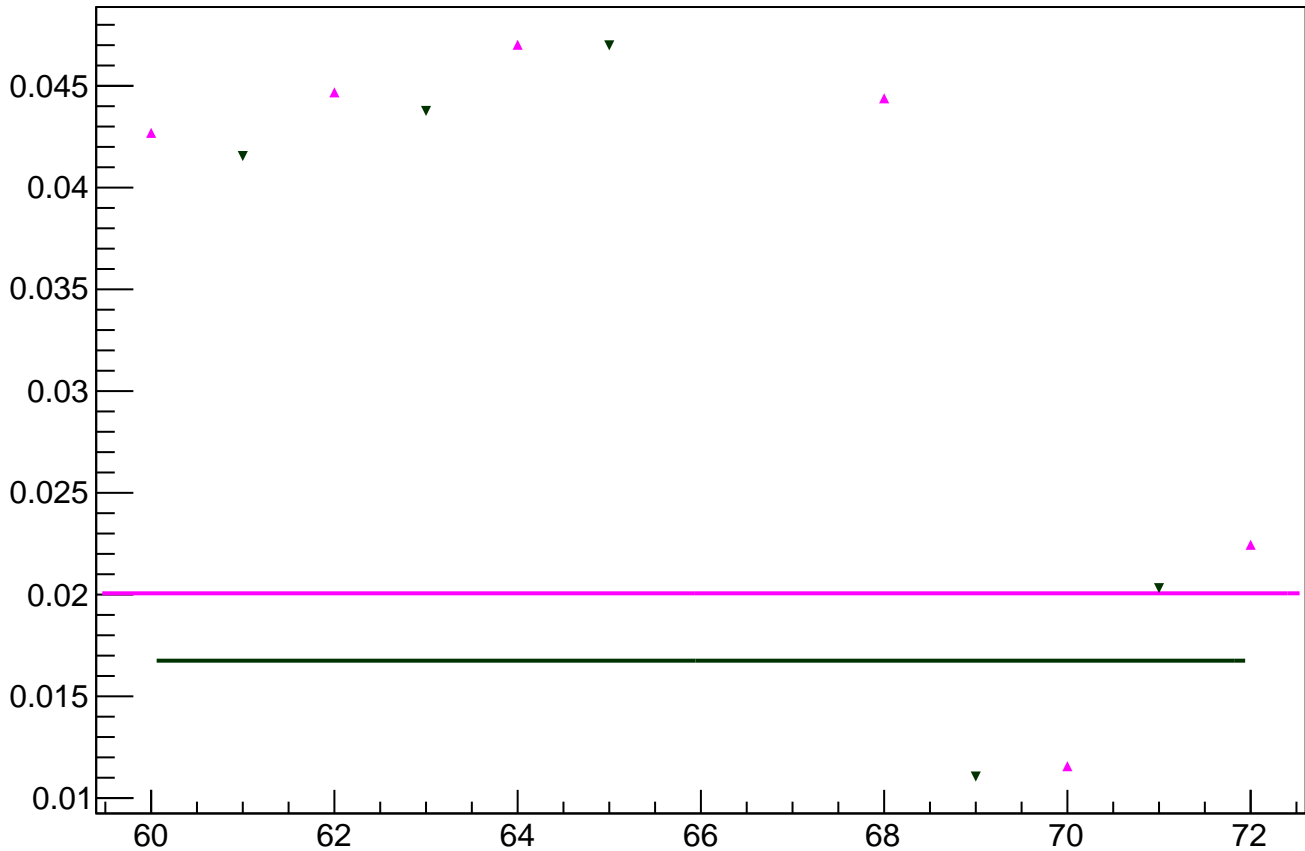
0.210+/-0.000  $\chi^2/\text{NDF}$ : 253924.4/4

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

0.204+/-0.000  $\chi^2/\text{NDF}$ : 336658.0/5

Left In: 0.204+/-0.000  $\chi^2/\text{NDF}$ :336658.0/5

# yield\_bpm4ecX\_rms vs slug



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

Left Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 1172234.9/4

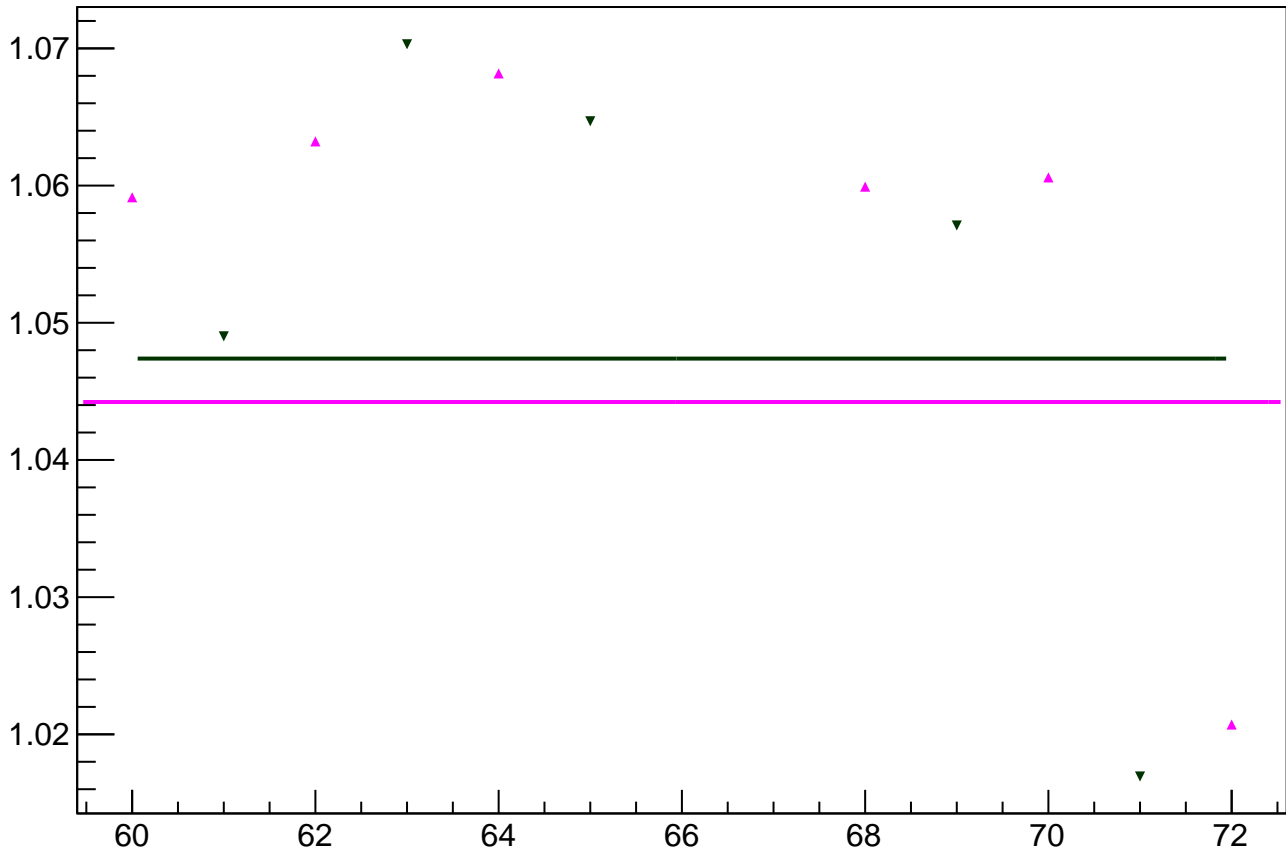
0.017+/-0.000  $\chi^2/\text{NDF}$ : 1172234.9/4

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

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1528976.5/5

Left In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1528976.5/5

# yield\_bpm4ecY\_mean vs slug



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

Left Out: 1.047+/-0.000  $\chi^2/\text{NDF}$ :2697916.6/4

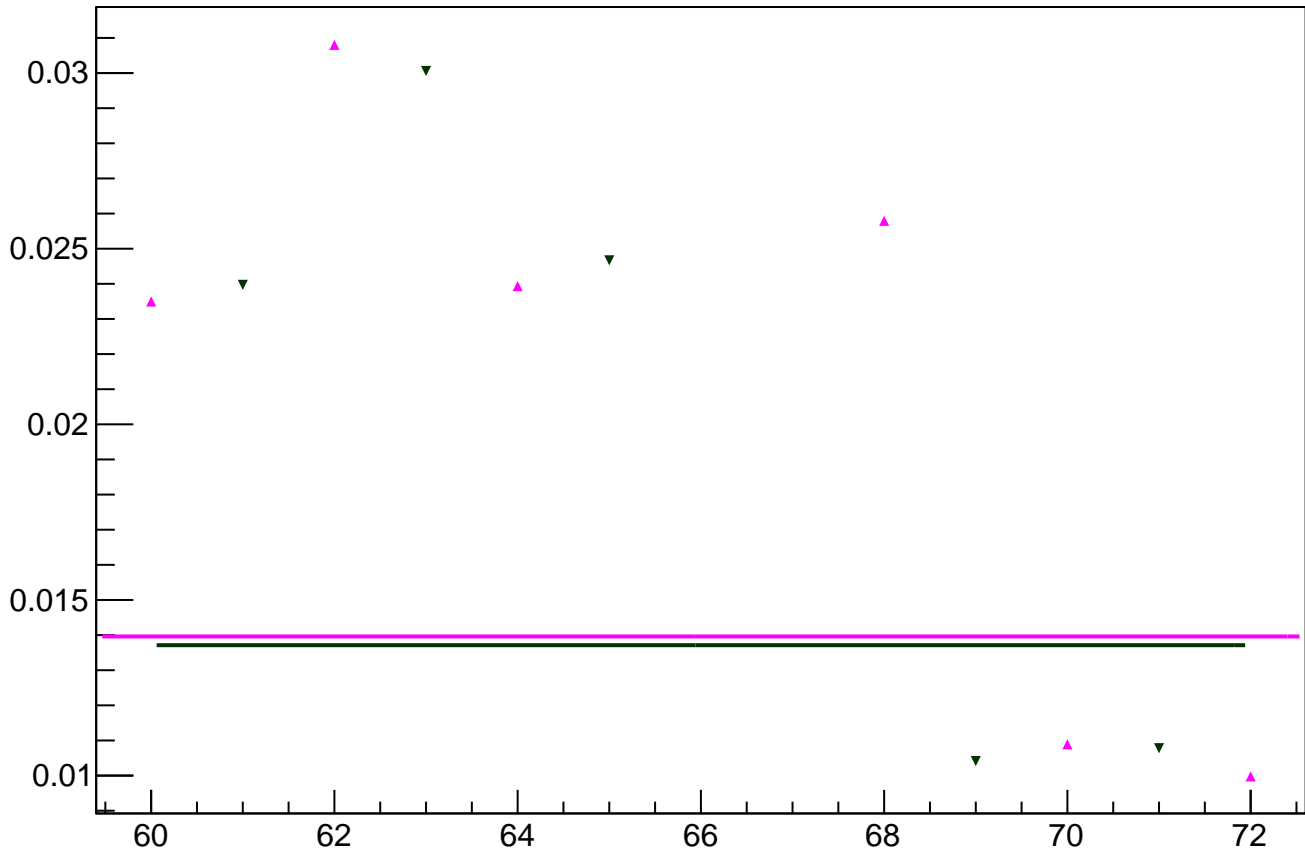
1.047+/-0.000  $\chi^2/\text{NDF}$ : 2697916.6/4

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

1.044+/-0.000  $\chi^2/\text{NDF}$ : 4221393.3/5

Left In: 1.044+/-0.000  $\chi^2/\text{NDF}$ :4221393.3/5

# yield\_bpm4ecY\_rms vs slug



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

Left Out: 0.014+/-0.000  $\chi^2$ /NDF:644525.8/4

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

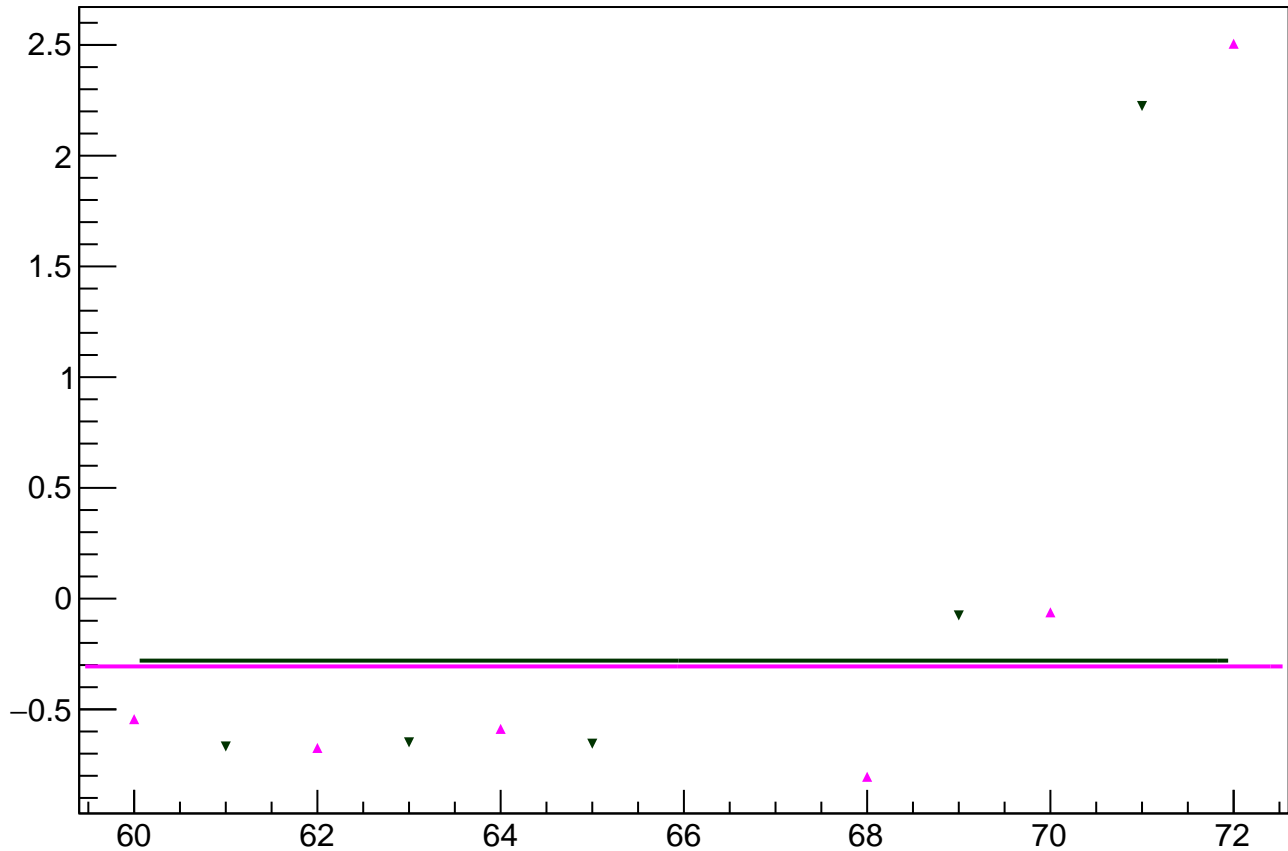
Left In: 0.014+/-0.000  $\chi^2$ /NDF:895449.4/5

0.014+/-0.000  $\chi^2$ /NDF: 644525.8/4

0.014+/-0.000  $\chi^2$ /NDF: 895449.4/5



# yield\_bpm1X\_mean vs slug



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

Left Out: -0.280+/-0.000  $\chi^2/\text{NDF}$ : 112626327.3/4

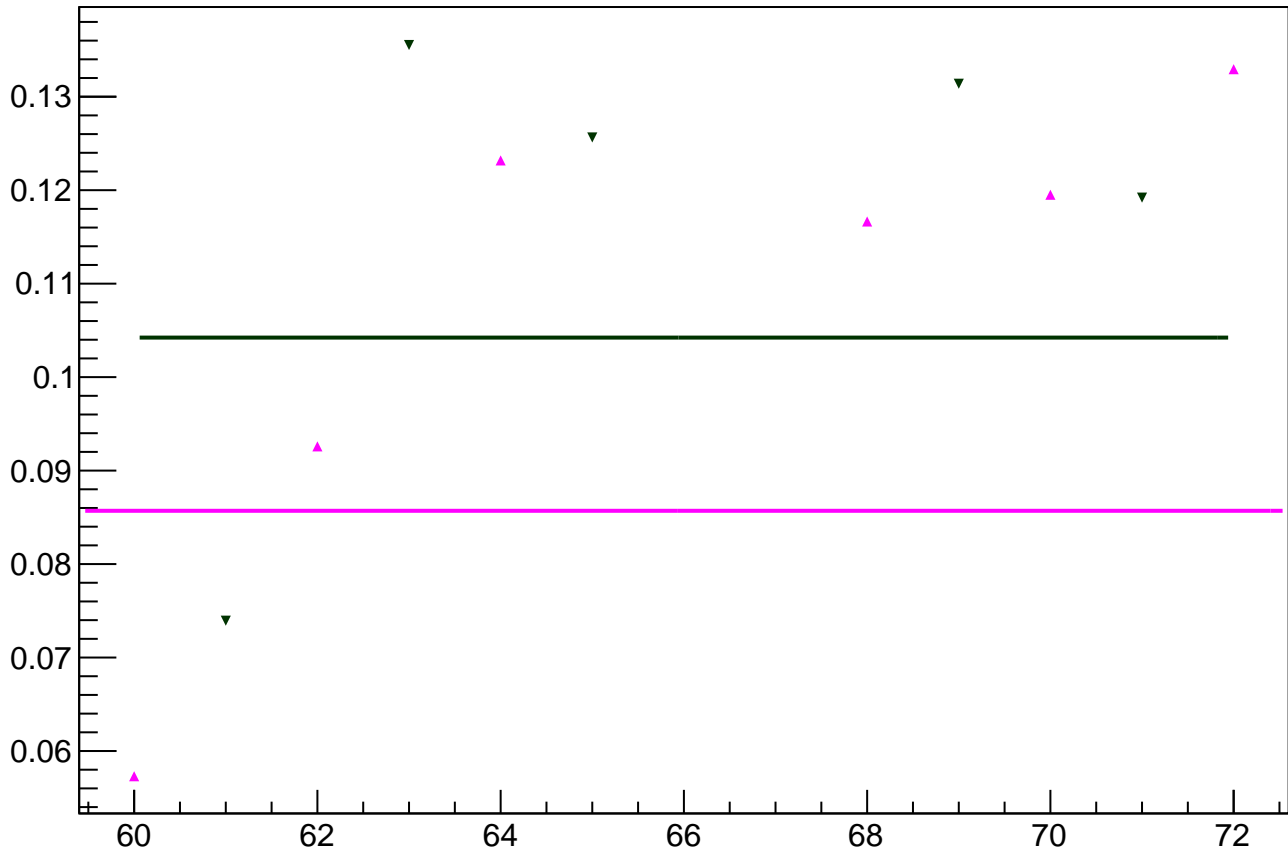
-0.280+/-0.000  $\chi^2/\text{NDF}$ : 112626327.3/4

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

-0.306+/-0.000  $\chi^2/\text{NDF}$ : 205113747.7/5

Left In: -0.306+/-0.000  $\chi^2/\text{NDF}$ : 205113747.7/5

# yield\_bpm1X\_rms vs slug



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

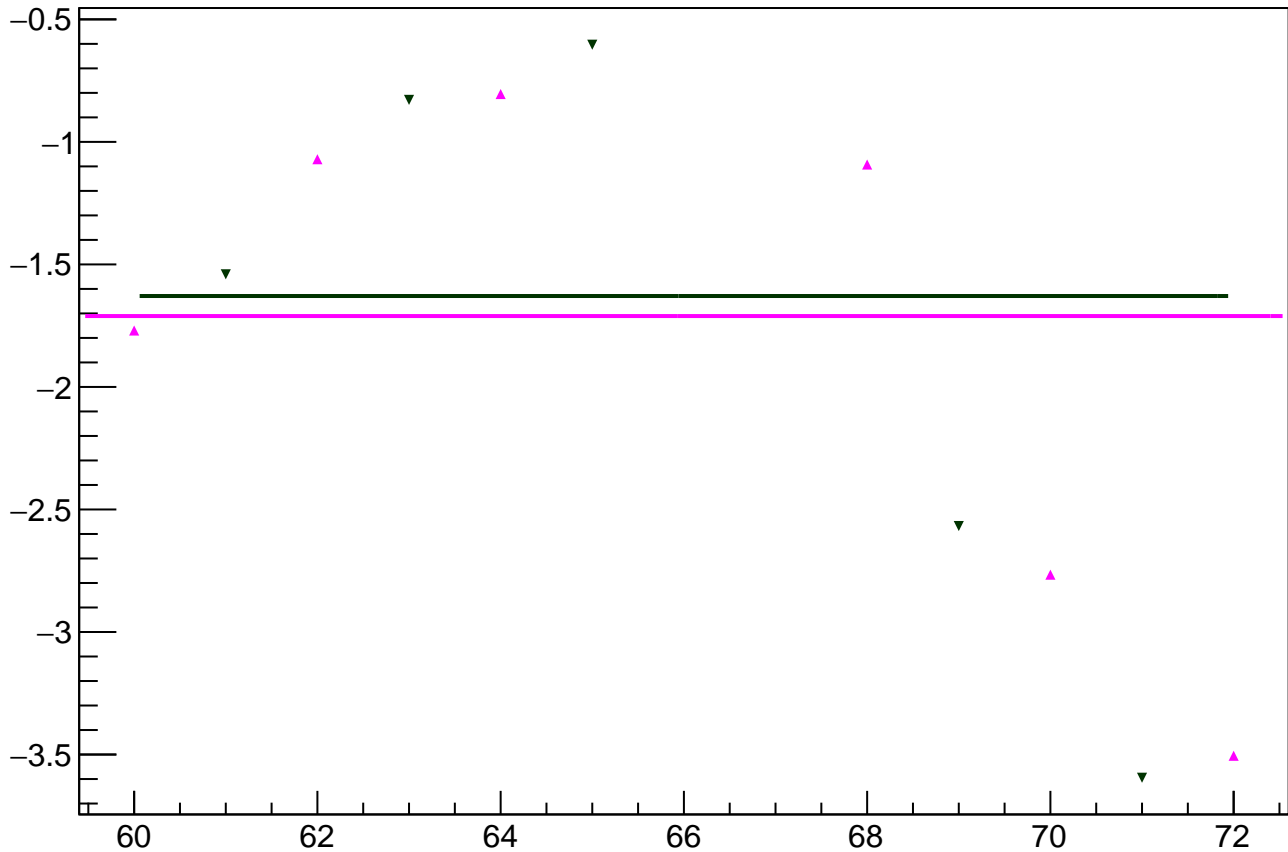
0.104+/-0.000  $\chi^2/\text{NDF}$ : 235993.5/4

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

0.086+/-0.000  $\chi^2/\text{NDF}$ : 513755.8/5

Left In: 0.086+/-0.000  $\chi^2/\text{NDF}$ : 513755.8/5

# yield\_bpm1Y\_mean vs slug



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

Left Out: -1.629+/-0.000  $\chi^2$ /NDF:174763994.4/4

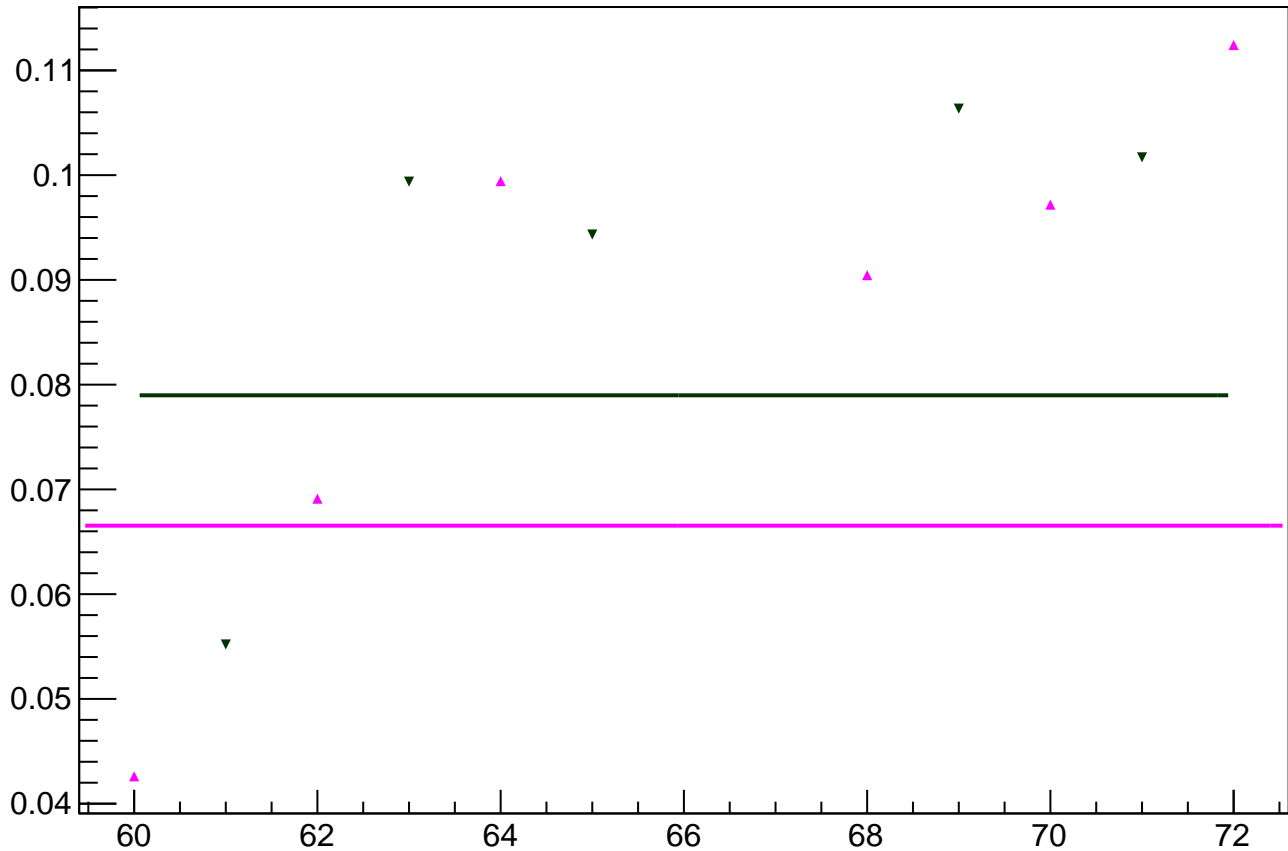
-1.629+/-0.000  $\chi^2$ /NDF: 174763994.4/4

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

Left In: -1.711+/-0.000  $\chi^2$ /NDF:221944393.6/5

-1.711+/-0.000  $\chi^2$ /NDF: 221944393.6/5

# yield\_bpm1Y\_rms vs slug



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

0.079+/-0.000  $\chi^2$ /NDF: 263656.7/4

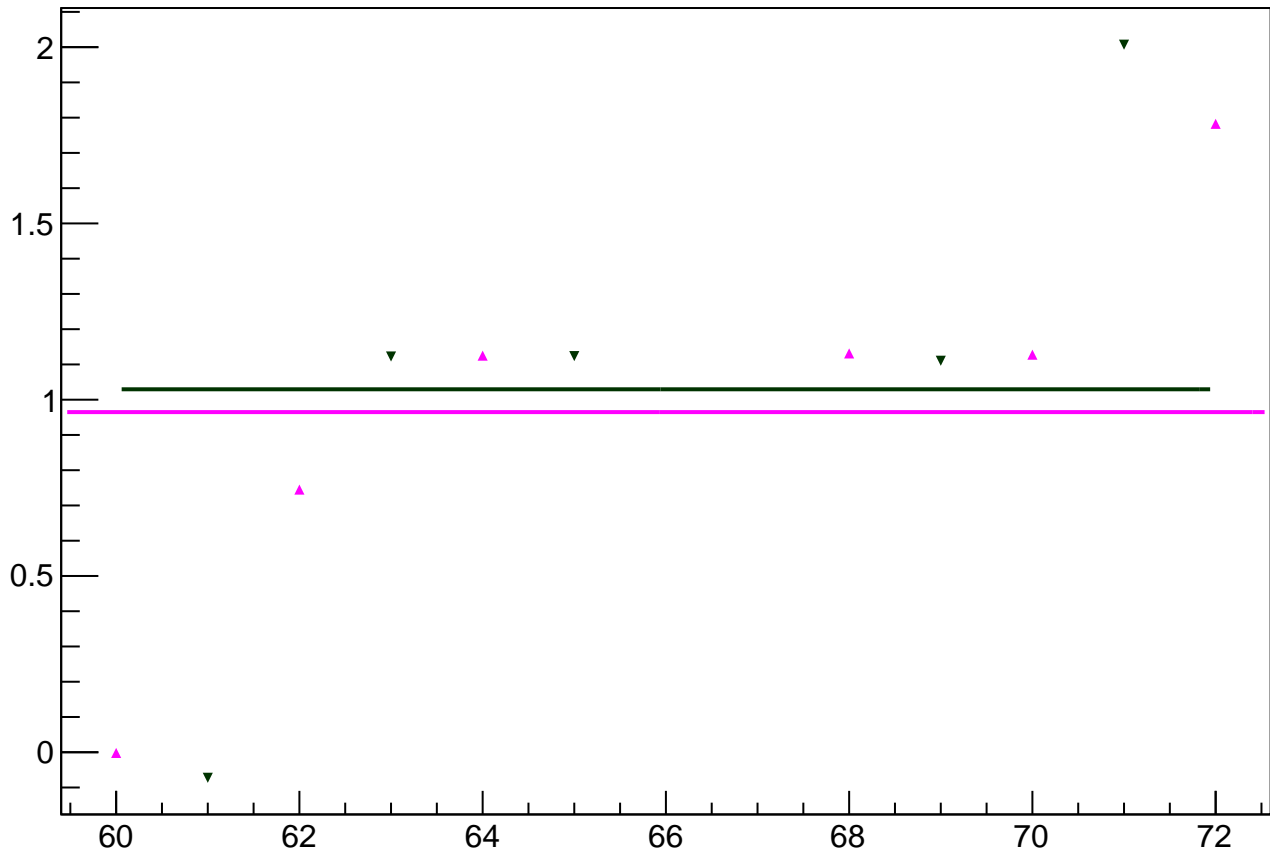
Left Out: 0.079+/-0.000  $\chi^2$ /NDF:263656.7/4

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

0.067+/-0.000  $\chi^2$ /NDF: 586588.3/5

Left In: 0.067+/-0.000  $\chi^2$ /NDF:586588.3/5

# yield\_bpm11X\_mean vs slug



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

1.030+/-0.000  $\chi^2/\text{NDF}$ : 1356104261.6/4

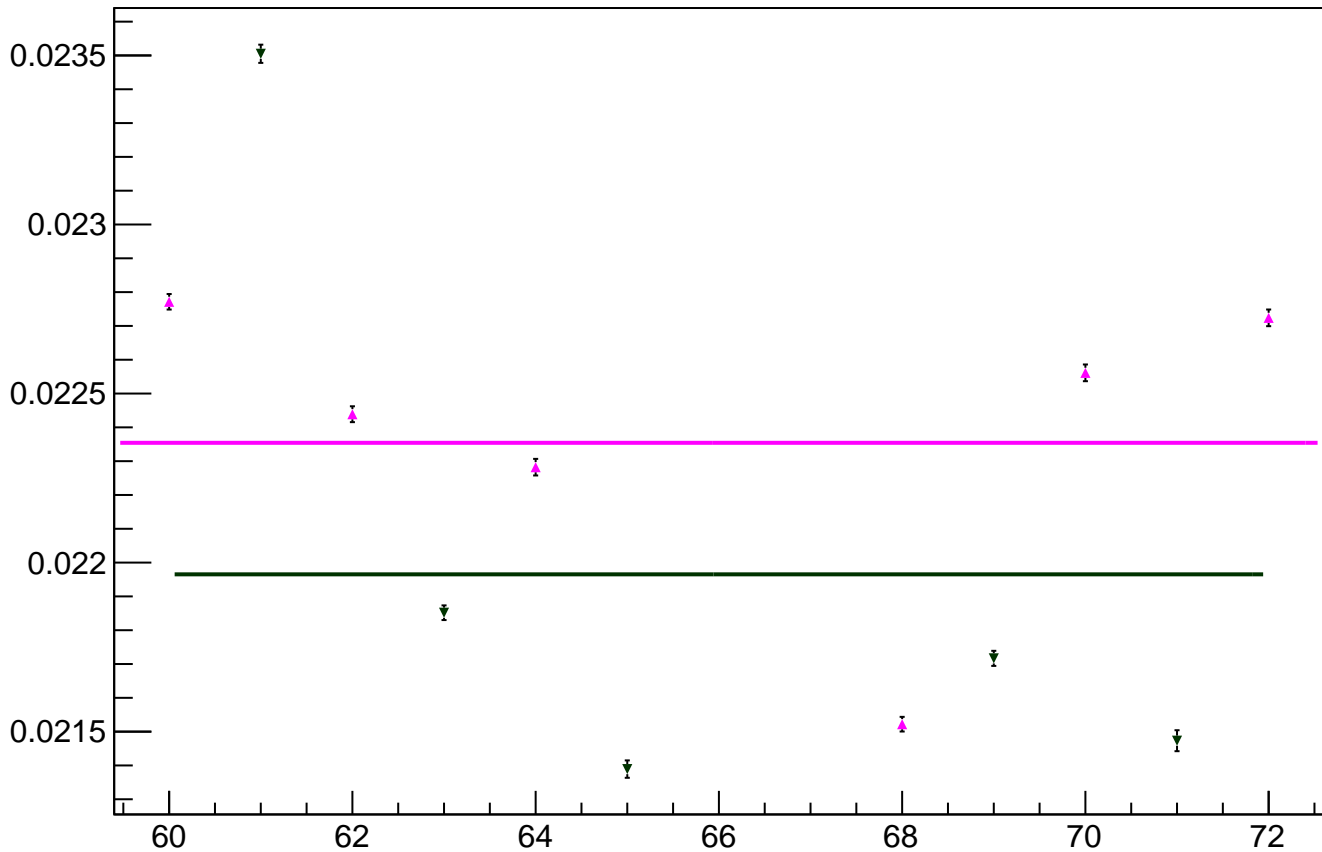
Left Out: 1.030+/-0.000  $\chi^2/\text{NDF}$ : 1356104261.6/4

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

0.965+/-0.000  $\chi^2/\text{NDF}$ : 1552445128.4/5

Left In: 0.965+/-0.000  $\chi^2/\text{NDF}$ : 1552445128.4/5

# yield\_bpm11X\_rms vs slug



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

Left Out: 0.022+/-0.000  $\chi^2$ /NDF:4172.2/4

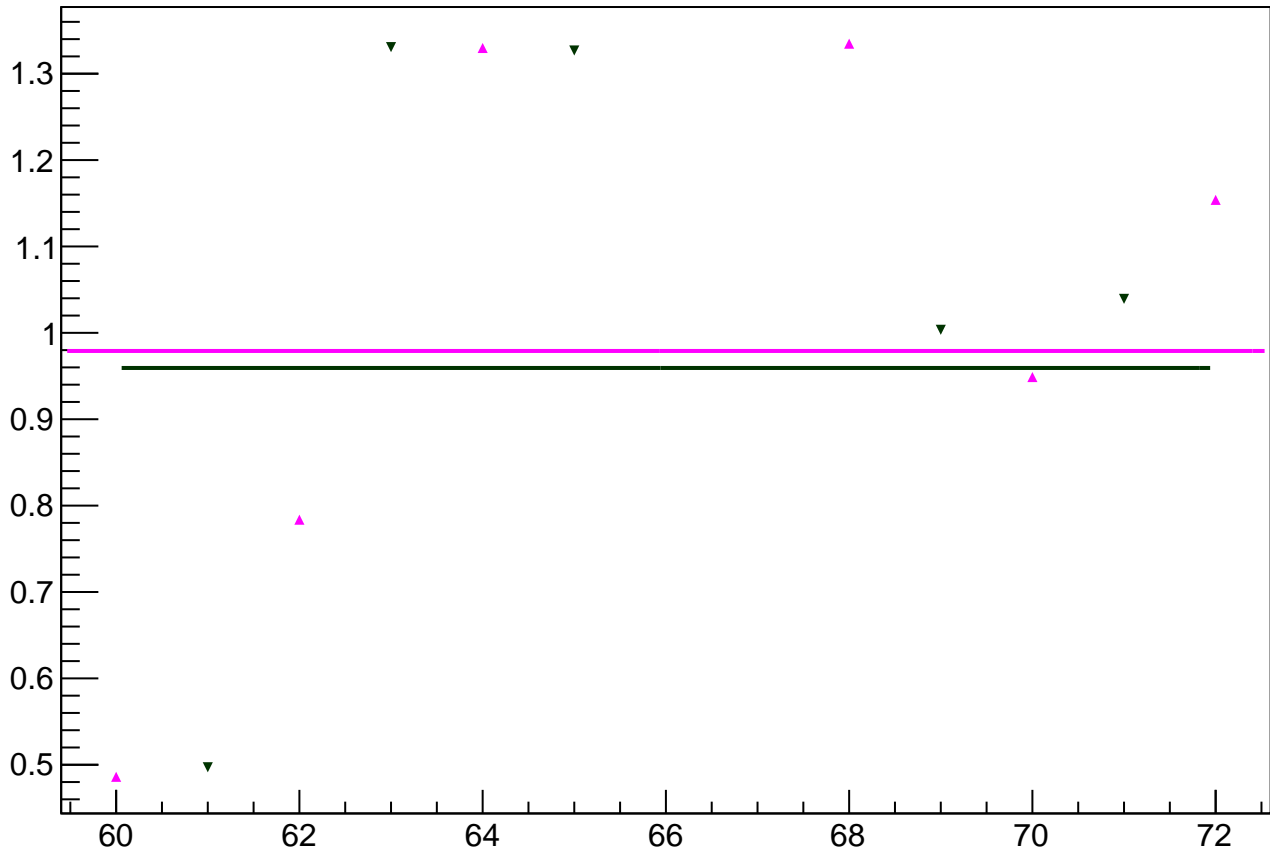
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.022+/-0.000  $\chi^2$ /NDF:2120.4/5

0.022+/-0.000  $\chi^2$ /NDF: 4172.2/4

0.022+/-0.000  $\chi^2$ /NDF: 2120.4/5

# yield\_bpm11Y\_mean vs slug



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

Left Out: 0.959+/-0.000  $\chi^2/\text{NDF}$ :20981216234.3/4

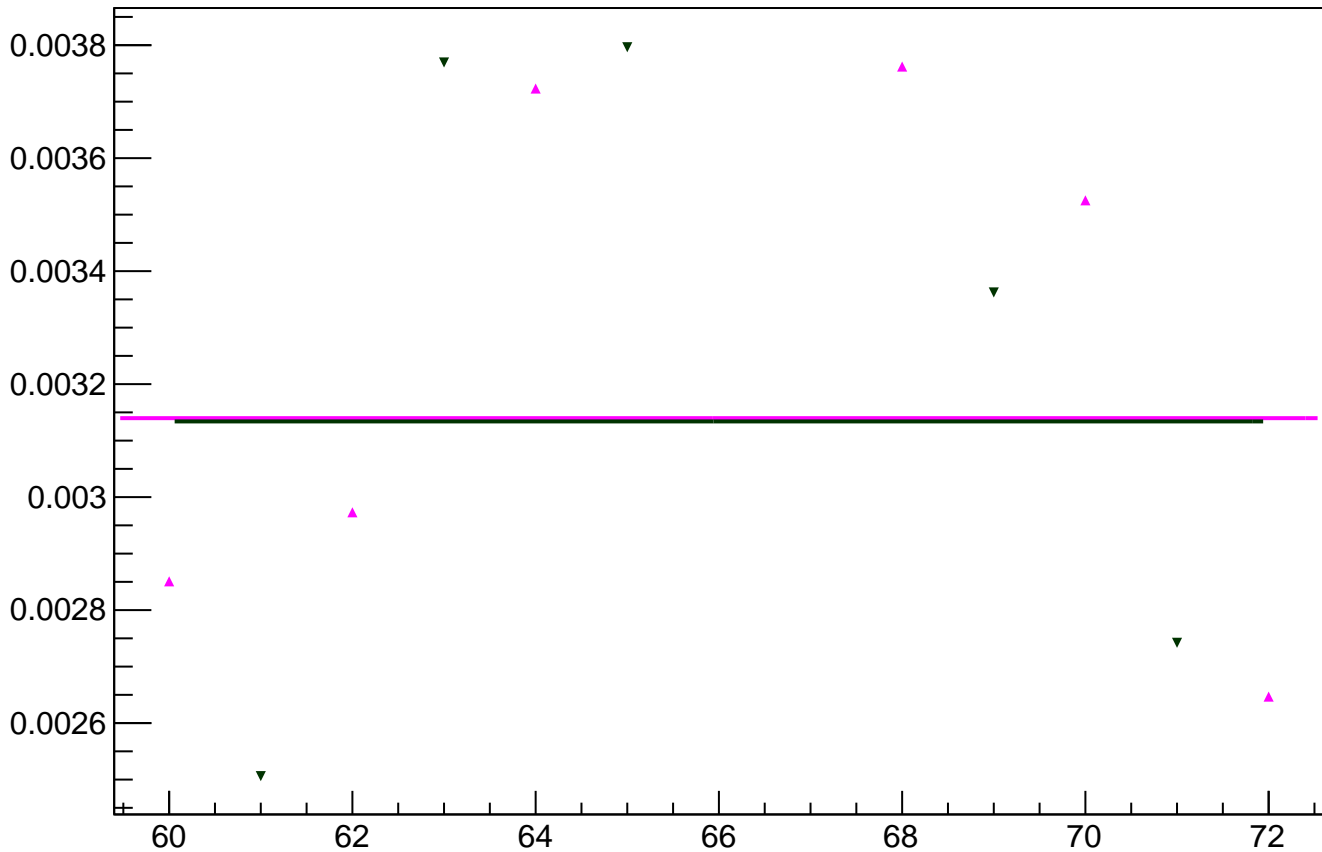
0.959+/-0.000  $\chi^2/\text{NDF}$ : 20981216234.3/4

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

0.979+/-0.000  $\chi^2/\text{NDF}$ : 23467892707.8/5

Left In: 0.979+/-0.000  $\chi^2/\text{NDF}$ :23467892707.8/5

# 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:110383.2/4

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

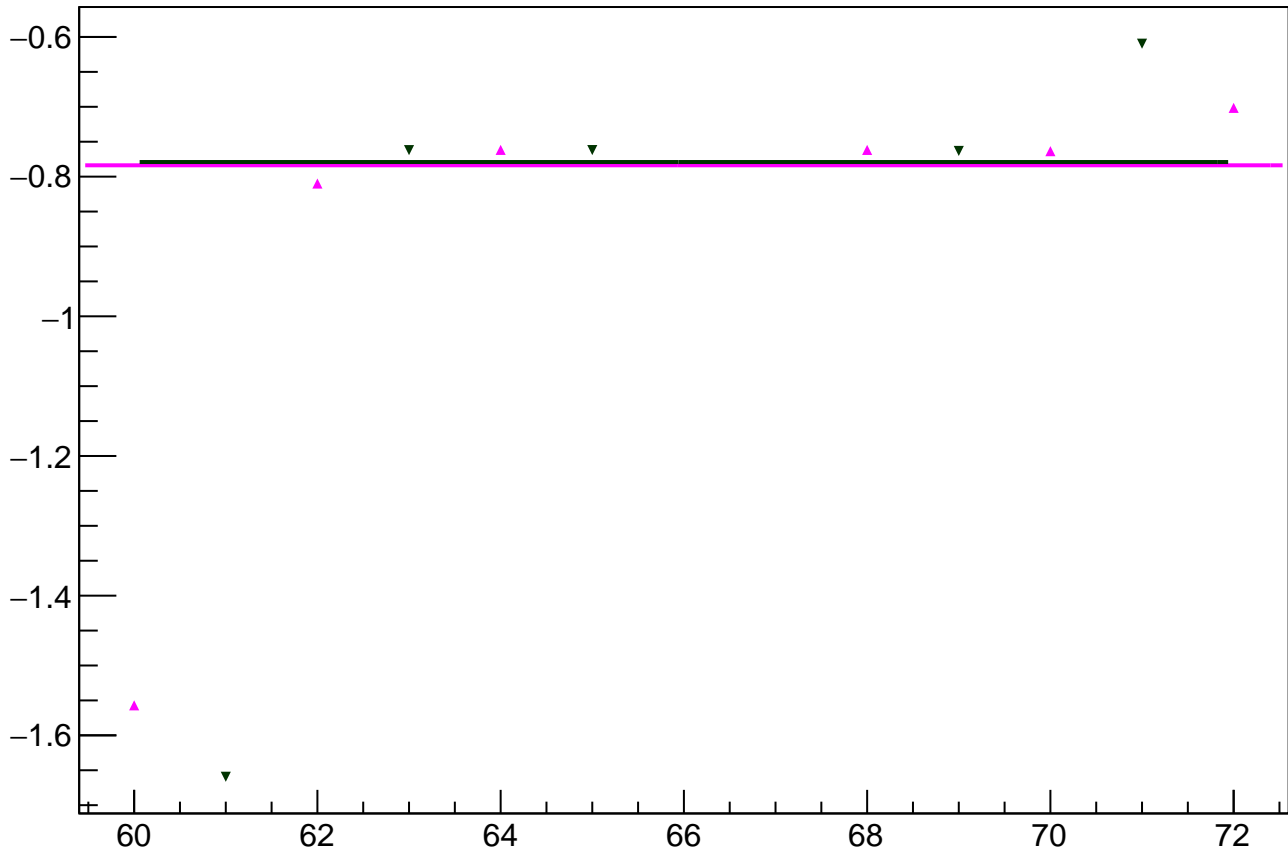
Left In: 0.003+/-0.000  $\chi^2$ /NDF:98469.9/5

0.003+/-0.000  $\chi^2$ /NDF: 110383.2/4

0.003+/-0.000  $\chi^2$ /NDF: 98469.9/5



# yield\_bpm12X\_mean vs slug



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

Left Out: -0.779+/-0.000  $\chi^2$ /NDF: 480538905.5/4

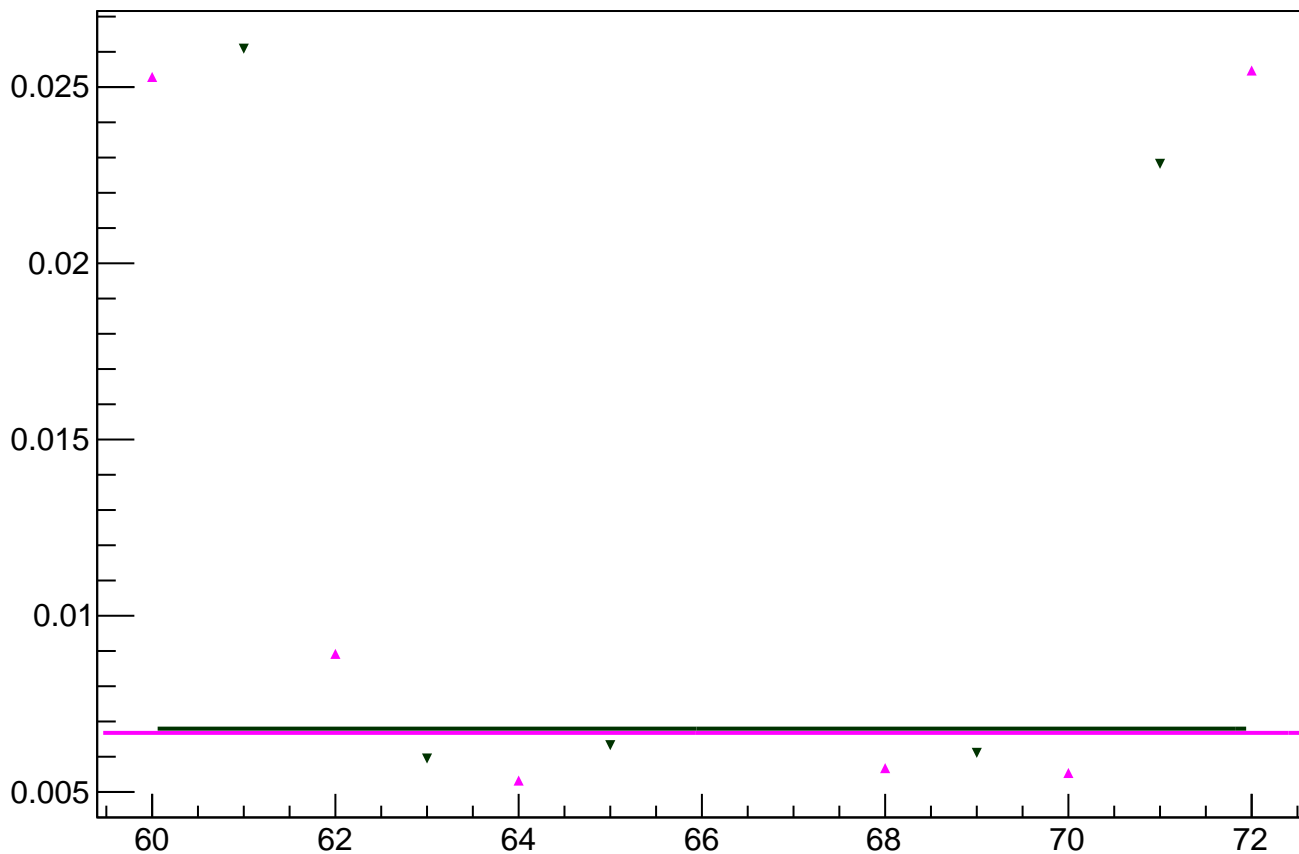
-0.779+/-0.000  $\chi^2$ /NDF: 480538905.5/4

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

-0.784+/-0.000  $\chi^2$ /NDF: 510917849.7/5

Left In: -0.784+/-0.000  $\chi^2$ /NDF: 510917849.7/5

# yield\_bpm12X\_rms vs slug



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

Left Out: 0.007+/-0.000  $\chi^2$ /NDF:701626.0/4

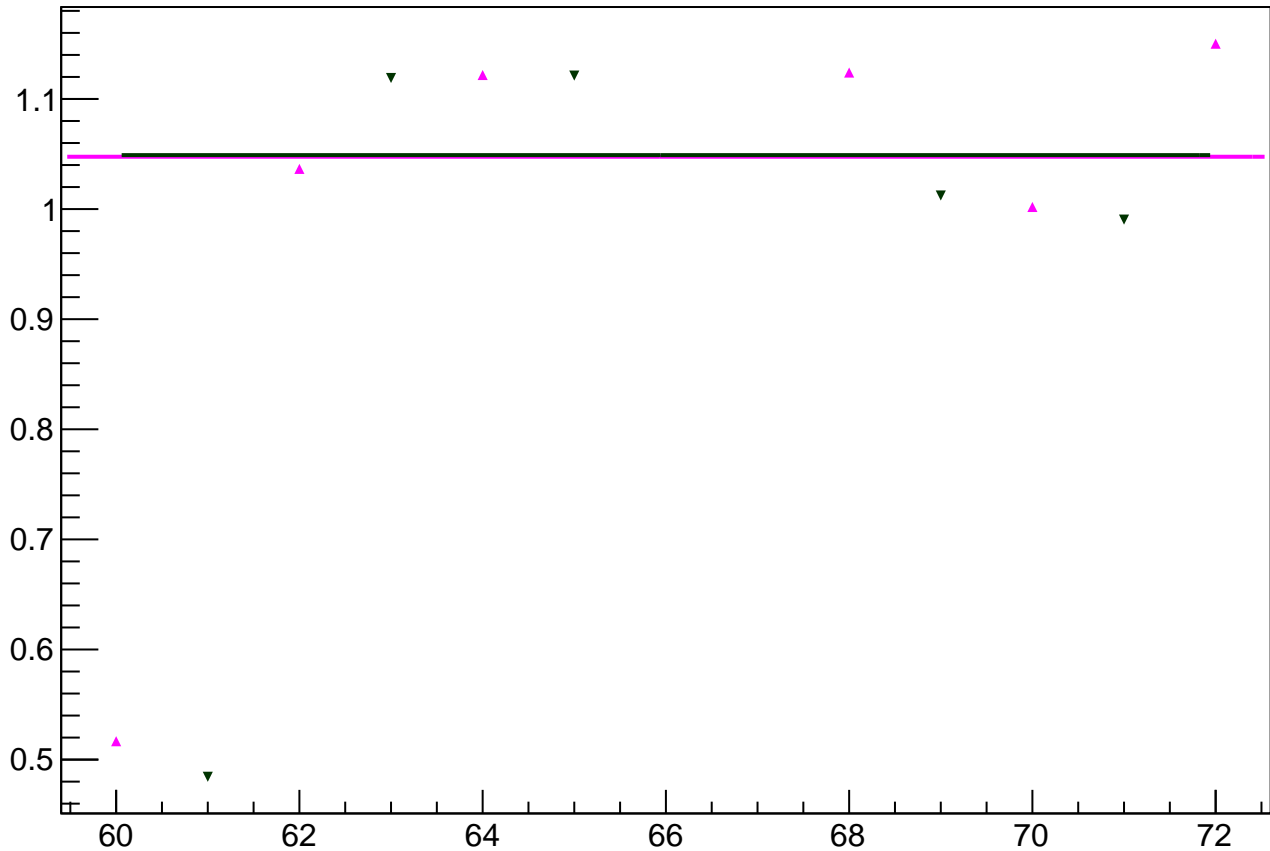
0.007+/-0.000  $\chi^2$ /NDF: 701626.0/4

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

0.007+/-0.000  $\chi^2$ /NDF: 1163872.2/5

Left In: 0.007+/-0.000  $\chi^2$ /NDF:1163872.2/5

# yield\_bpm12Y\_mean vs slug



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

Left Out: 1.049+/-0.000  $\chi^2$ /NDF:761923981.9/4

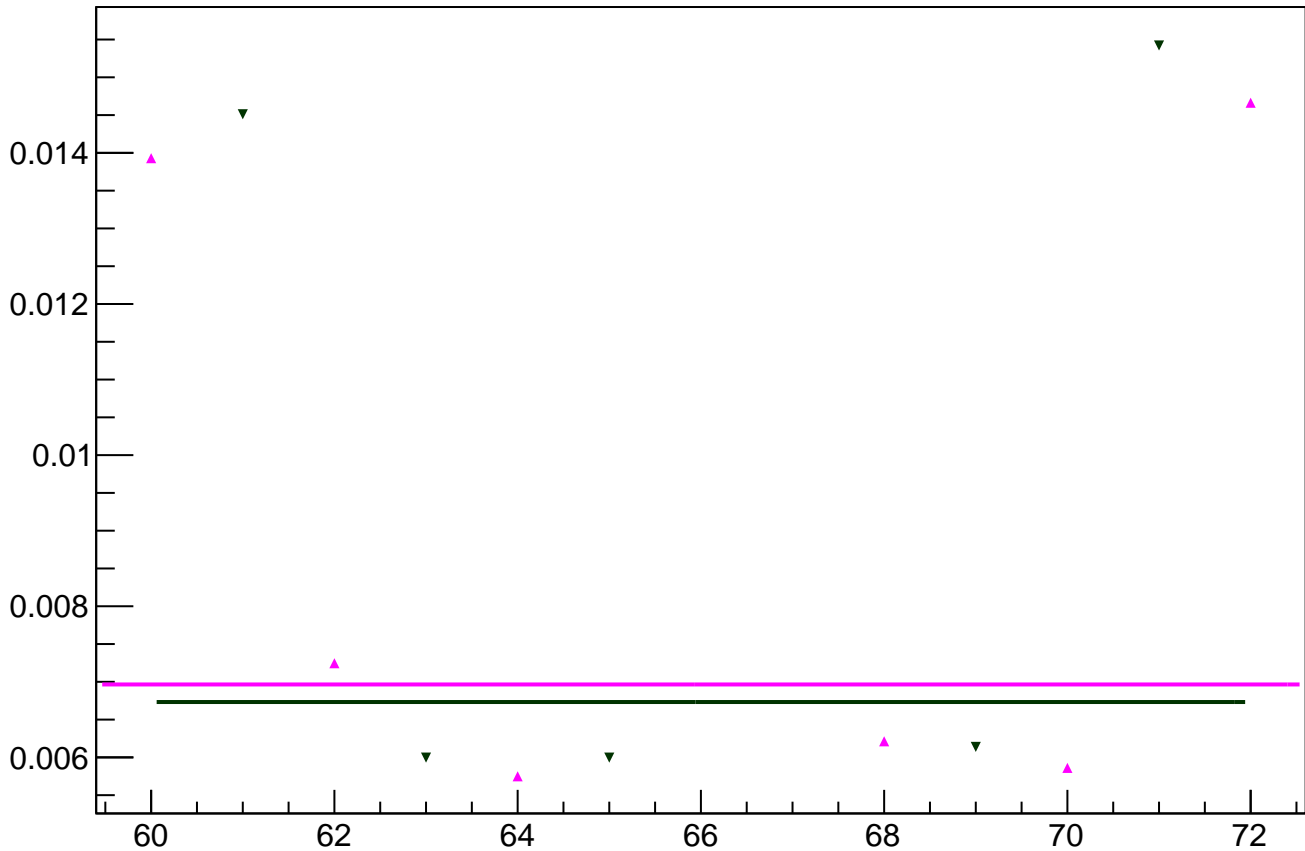
1.049+/-0.000  $\chi^2$ /NDF: 761923981.9/4

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

1.048+/-0.000  $\chi^2$ /NDF: 911968272.1/5

Left In: 1.048+/-0.000  $\chi^2$ /NDF:911968272.1/5

# yield\_bpm12Y\_rms vs slug



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

Left Out: 0.007+/-0.000  $\chi^2$ /NDF:405152.7/4

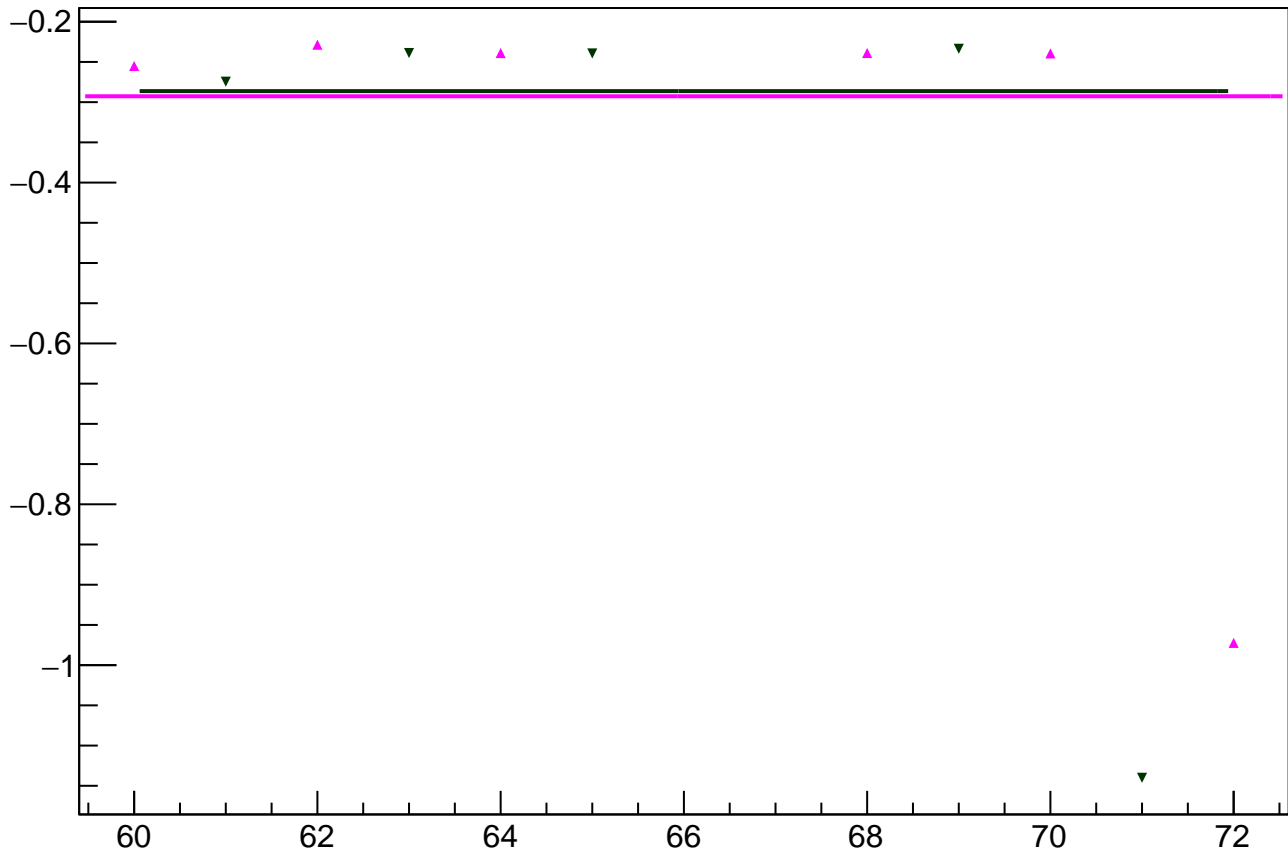
0.007+/-0.000  $\chi^2$ /NDF: 405152.7/4

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

0.007+/-0.000  $\chi^2$ /NDF: 565904.8/5

Left In: 0.007+/-0.000  $\chi^2$ /NDF:565904.8/5

# yield\_bpm16X\_mean vs slug



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

Left Out: -0.286+/-0.000  $\chi^2$ /NDF: 2598868590.9/4

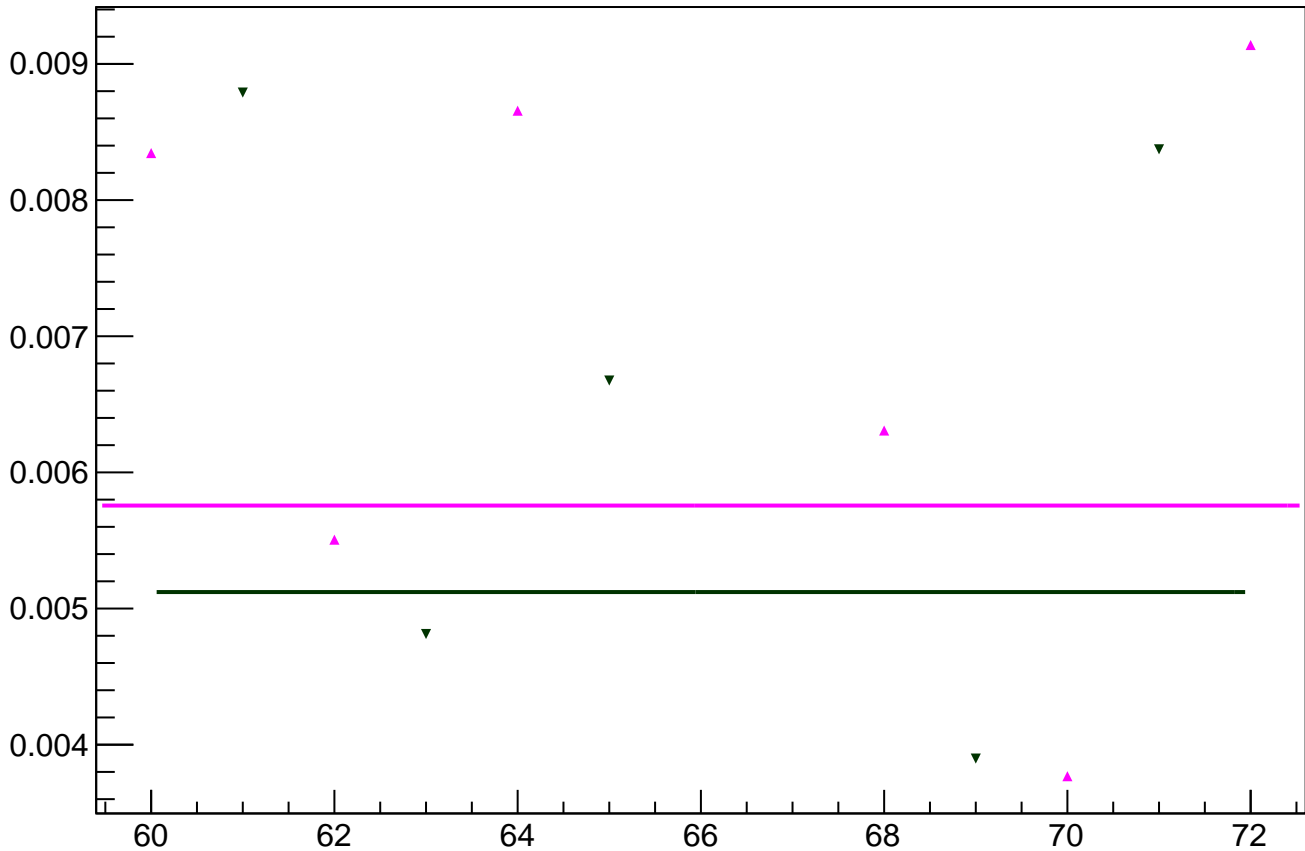
-0.286+/-0.000  $\chi^2$ /NDF: 2598868590.9/4

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

-0.293+/-0.000  $\chi^2$ /NDF: 2579328977.2/5

Left In: -0.293+/-0.000  $\chi^2$ /NDF: 2579328977.2/5

# yield\_bpm16X\_rms vs slug



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

Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 329697.9/4

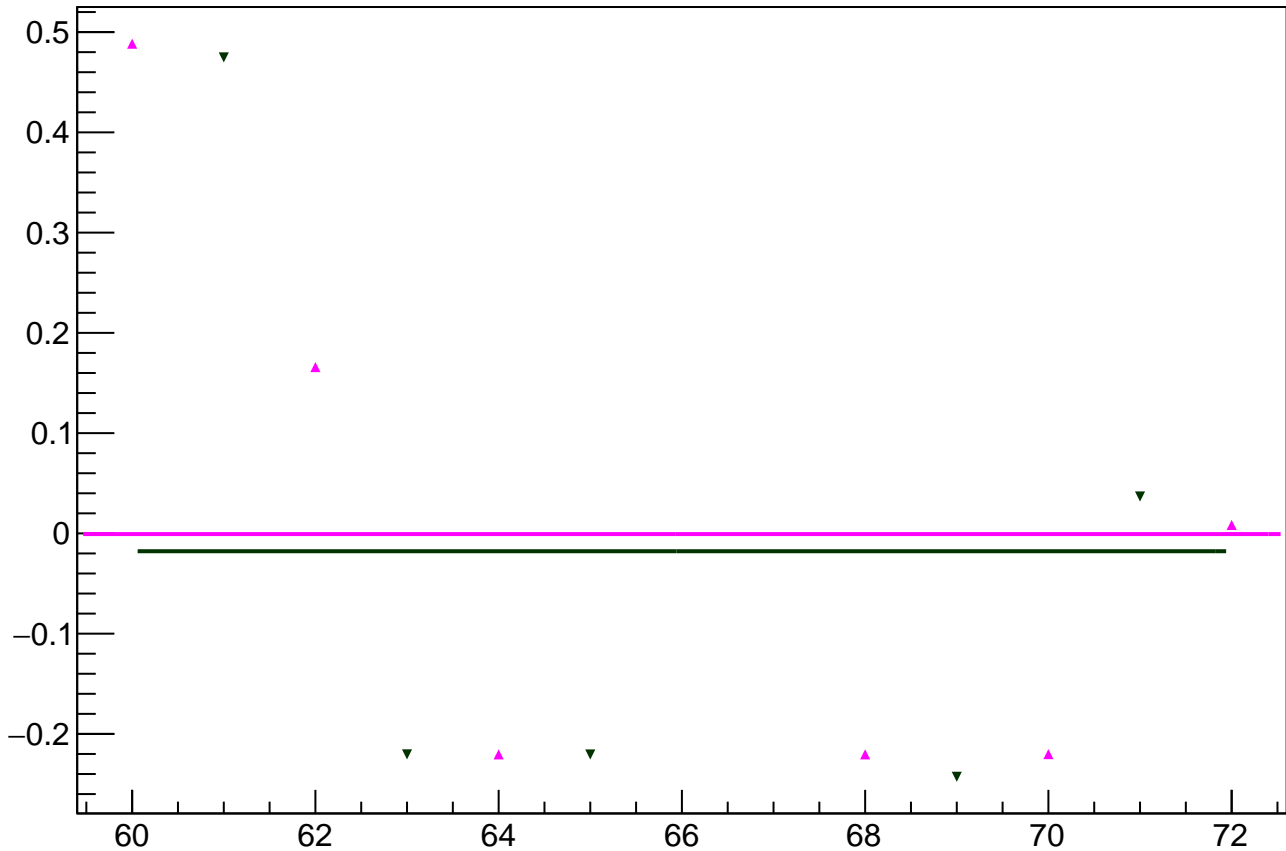
0.005+/-0.000  $\chi^2/\text{NDF}$ : 329697.9/4

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

0.006+/-0.000  $\chi^2/\text{NDF}$ : 521152.0/5

Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 521152.0/5

# yield\_bpm16Y\_mean vs slug



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

Left Out: -0.018+/-0.000  $\chi^2/\text{NDF}$ : 29342728122.2/4

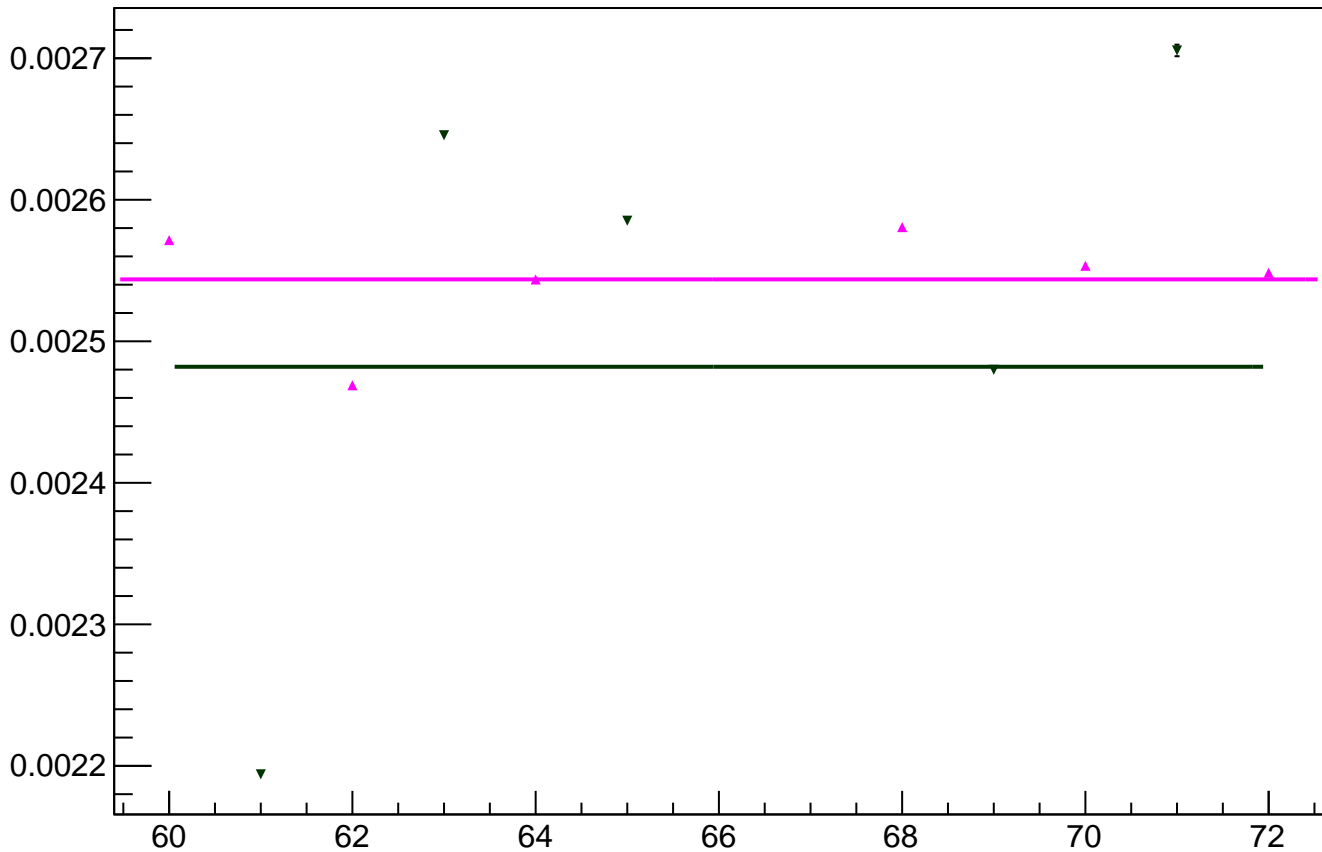
-0.018+/-0.000  $\chi^2/\text{NDF}$ : 29342728122.2/4

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

-0.001+/-0.000  $\chi^2/\text{NDF}$ : 27446534809.3/5

Left In: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 27446534809.3/5

# yield\_bpm16Y\_rms vs slug



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

Left Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ :21888.6/4

0.002+/-0.000  $\chi^2/\text{NDF}$ : 21888.6/4

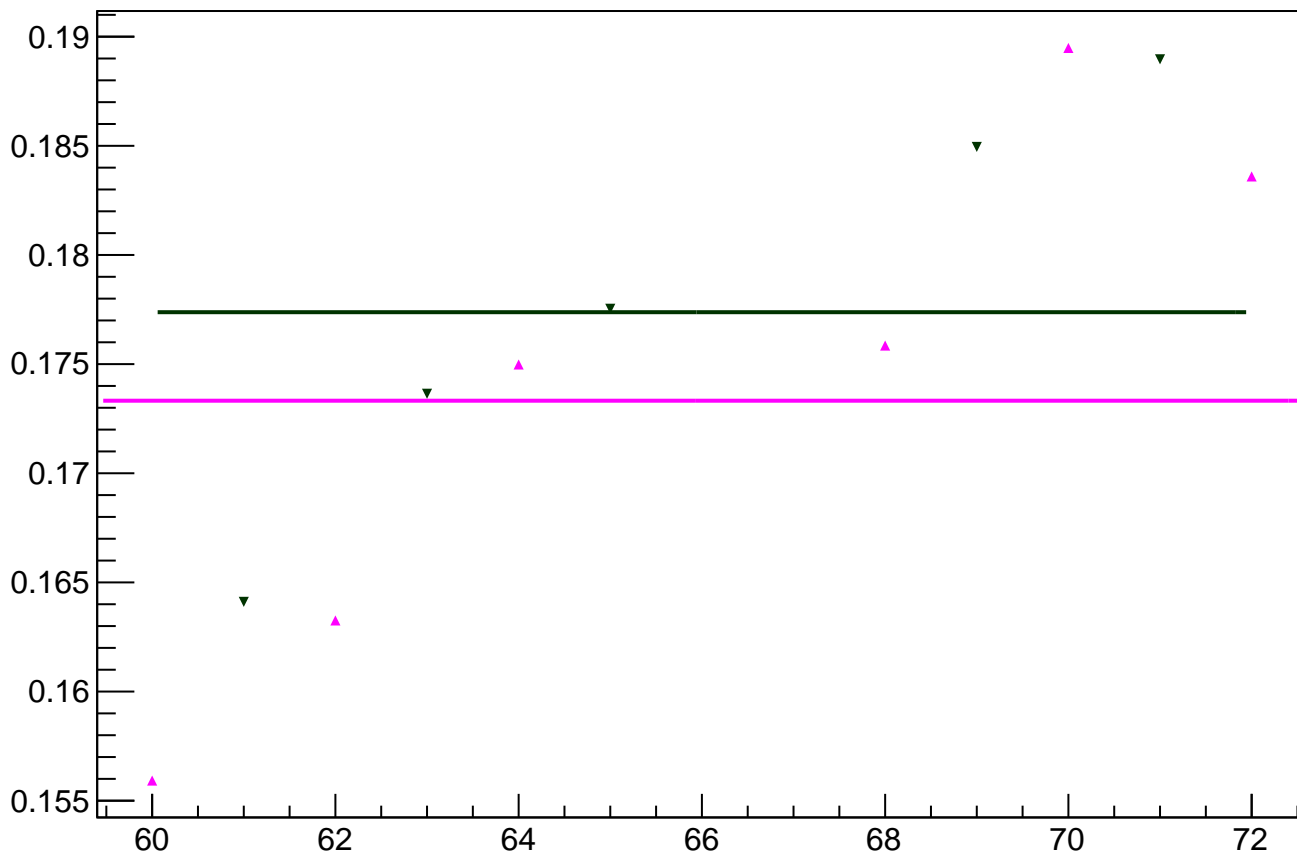
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.003+/-0.000  $\chi^2/\text{NDF}$ : 1136.9/5

Left In: 0.003+/-0.000  $\chi^2/\text{NDF}$ :1136.9/5



# yield\_bpm2i01X\_mean vs slug



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

Left Out: 0.177+/-0.000  $\chi^2$ /NDF:1812202.9/4

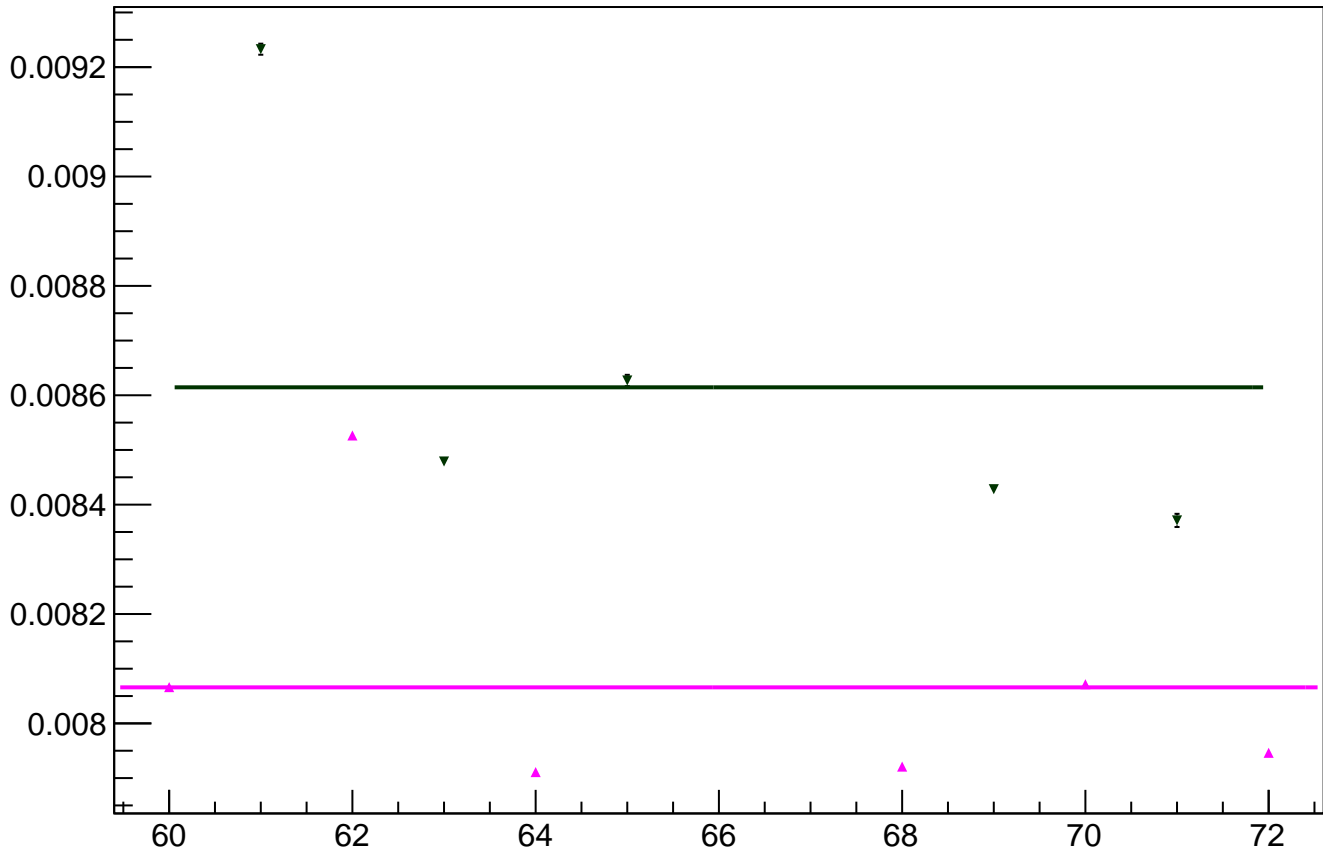
0.177+/-0.000  $\chi^2$ /NDF: 1812202.9/4

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

0.173+/-0.000  $\chi^2$ /NDF: 5625149.5/5

Left In: 0.173+/-0.000  $\chi^2$ /NDF:5625149.5/5

# yield\_bpm2i01X\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 4884.1/4

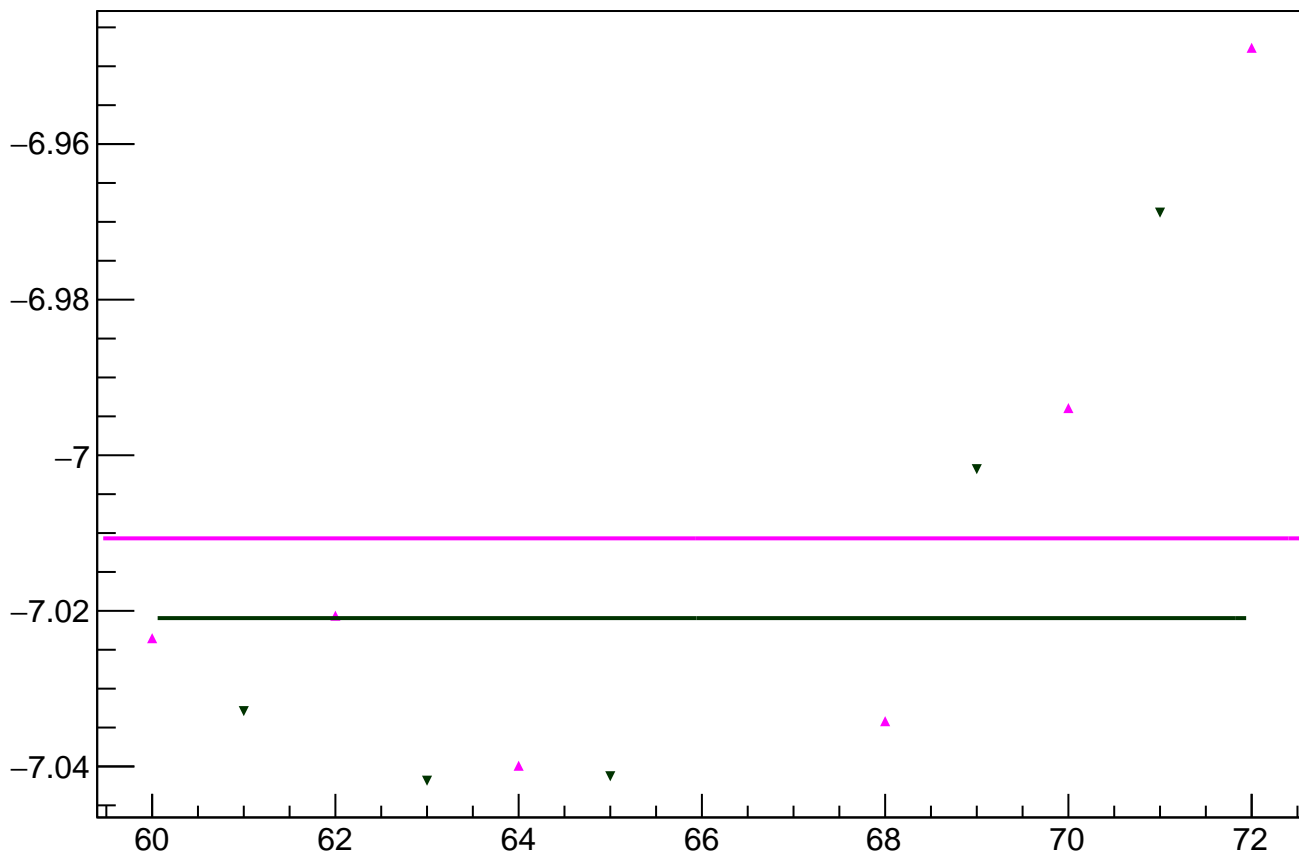
0.009+/-0.000  $\chi^2/\text{NDF}$ : 4884.1/4

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 3599.3/5

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 3599.3/5

# yield\_bpm2i01Y\_mean vs slug



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

Left Out: -7.021+/-0.000  $\chi^2$ /NDF: 19438602.3/4

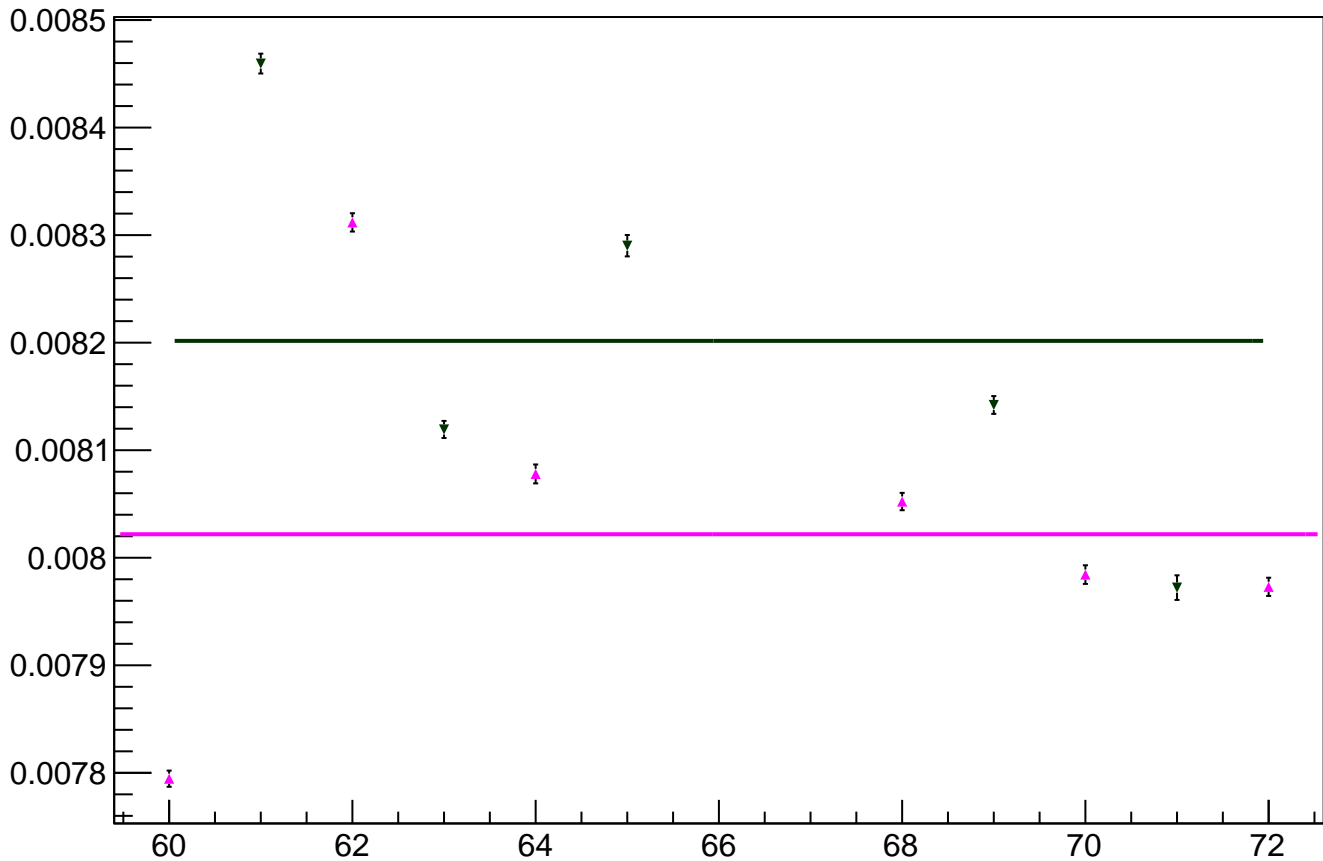
-7.021+/-0.000  $\chi^2$ /NDF: 19438602.3/4

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

-7.011+/-0.000  $\chi^2$ /NDF: 41461371.8/5

Left In: -7.011+/-0.000  $\chi^2$ /NDF: 41461371.8/5

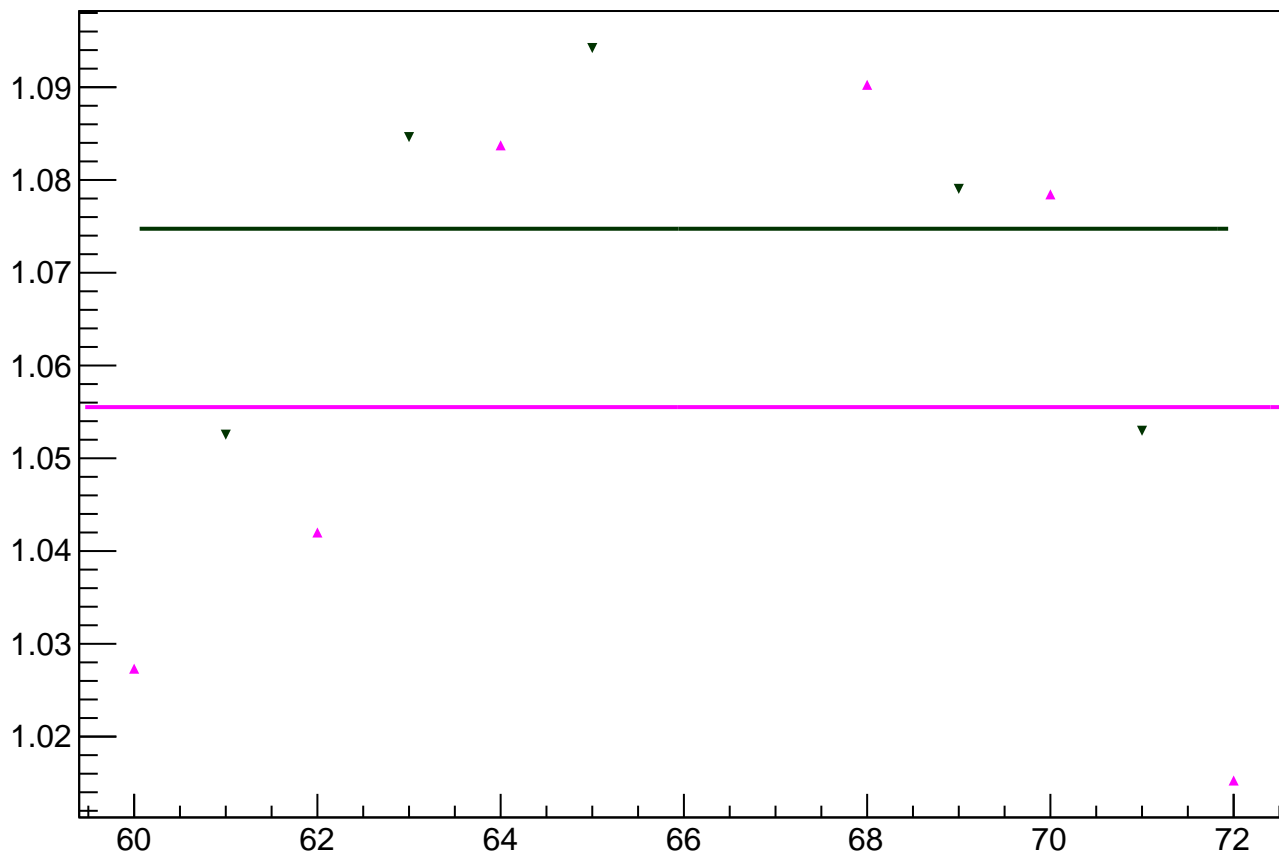
# yield\_bpm2i01Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ :1422.6/4  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ :2177.5/5

0.008+/-0.000  $\chi^2/\text{NDF}$ : 1422.6/4  
0.008+/-0.000  $\chi^2/\text{NDF}$ : 2177.5/5

# yield\_bpm2i02X\_mean vs slug



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

Left Out: 1.075+/-0.000  $\chi^2$ /NDF:922217.9/4

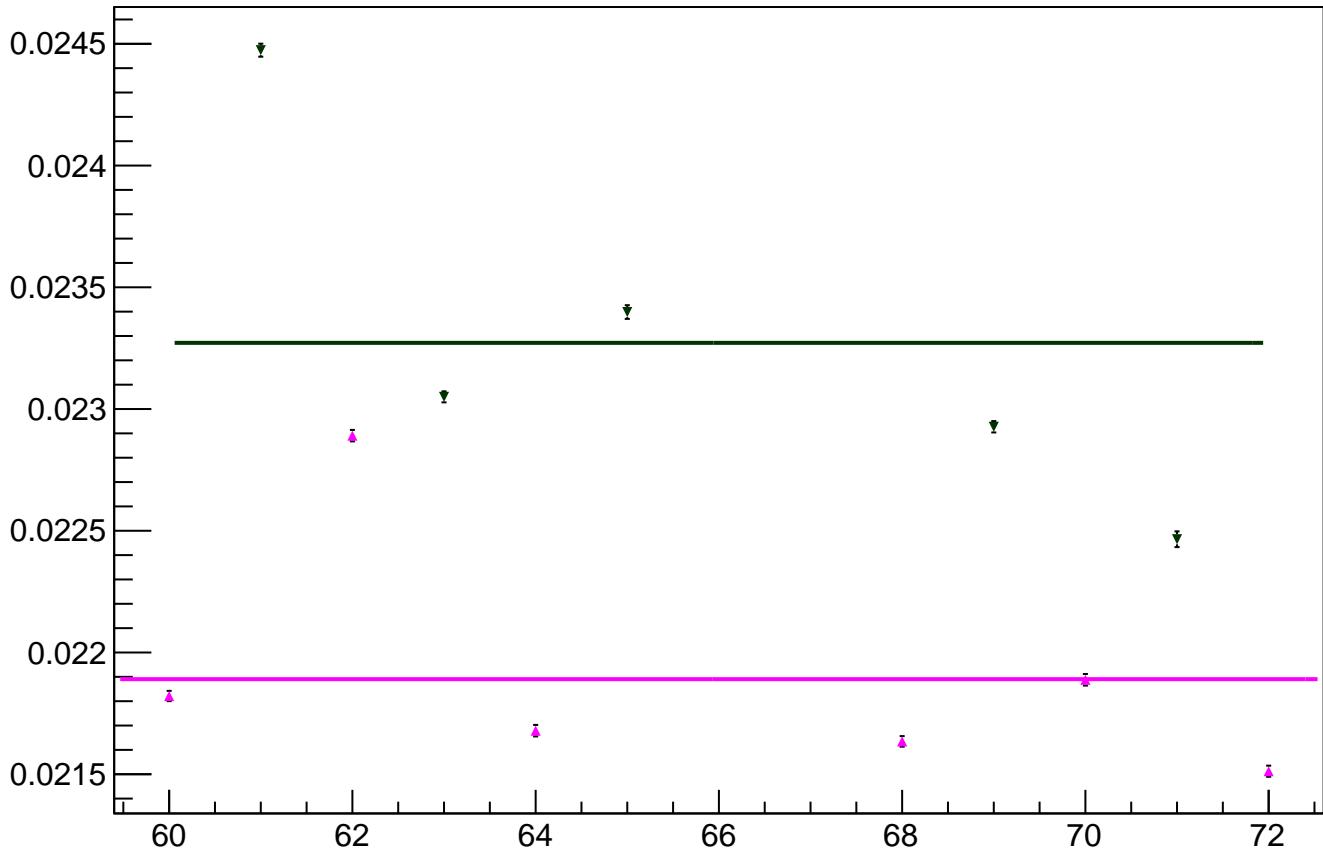
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 1.056+/-0.000  $\chi^2$ /NDF:5059033.0/5

1.075+/-0.000  $\chi^2$ /NDF: 922217.9/4

1.056+/-0.000  $\chi^2$ /NDF: 5059033.0/5

# yield\_bpm2i02X\_rms vs slug



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

Left Out: 0.023+/-0.000  $\chi^2$ /NDF:2973.3/4

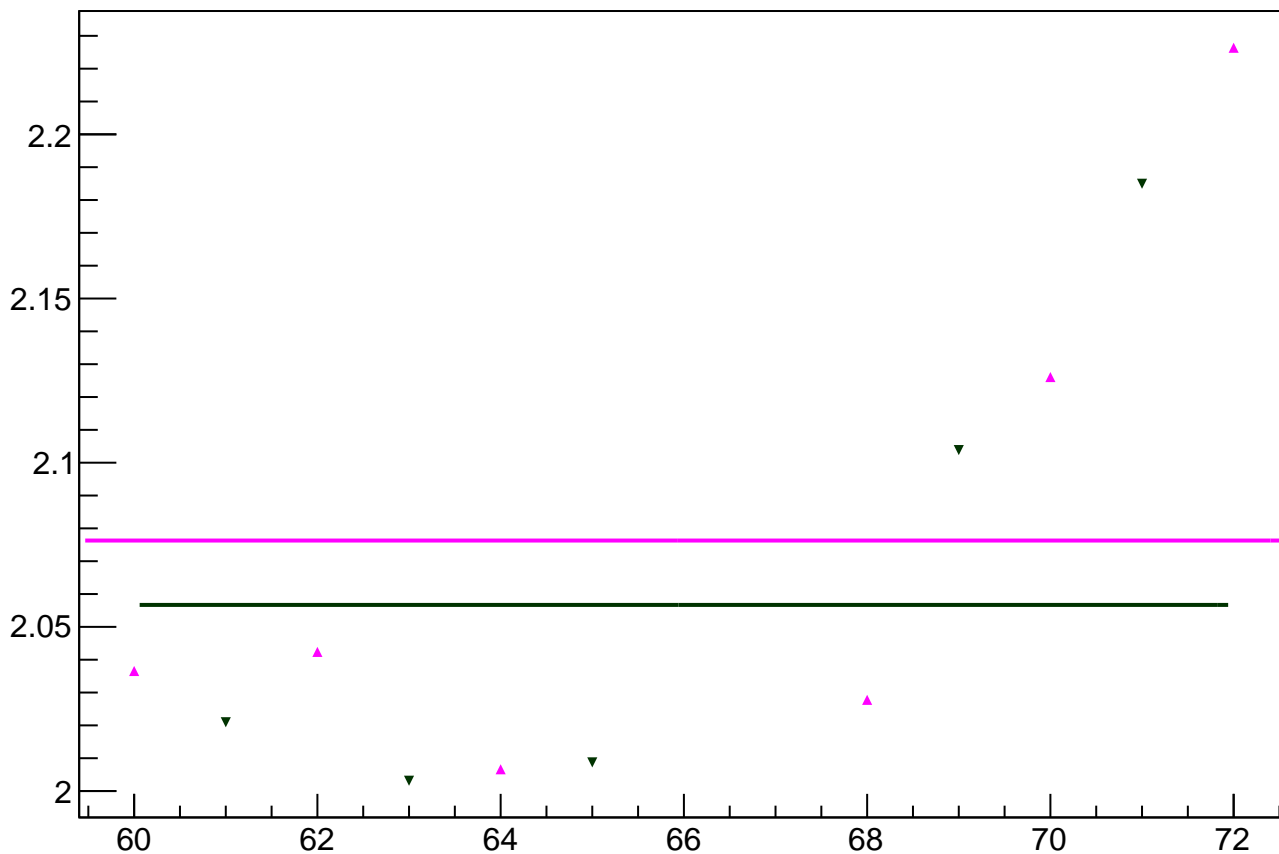
0.023+/-0.000  $\chi^2$ /NDF: 2973.3/4

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

0.022+/-0.000  $\chi^2$ /NDF: 2305.1/5

Left In: 0.022+/-0.000  $\chi^2$ /NDF:2305.1/5

# yield\_bpm2i02Y\_mean vs slug



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

Left Out: 2.057+/-0.000  $\chi^2/\text{NDF}$ : 38784246.1/4

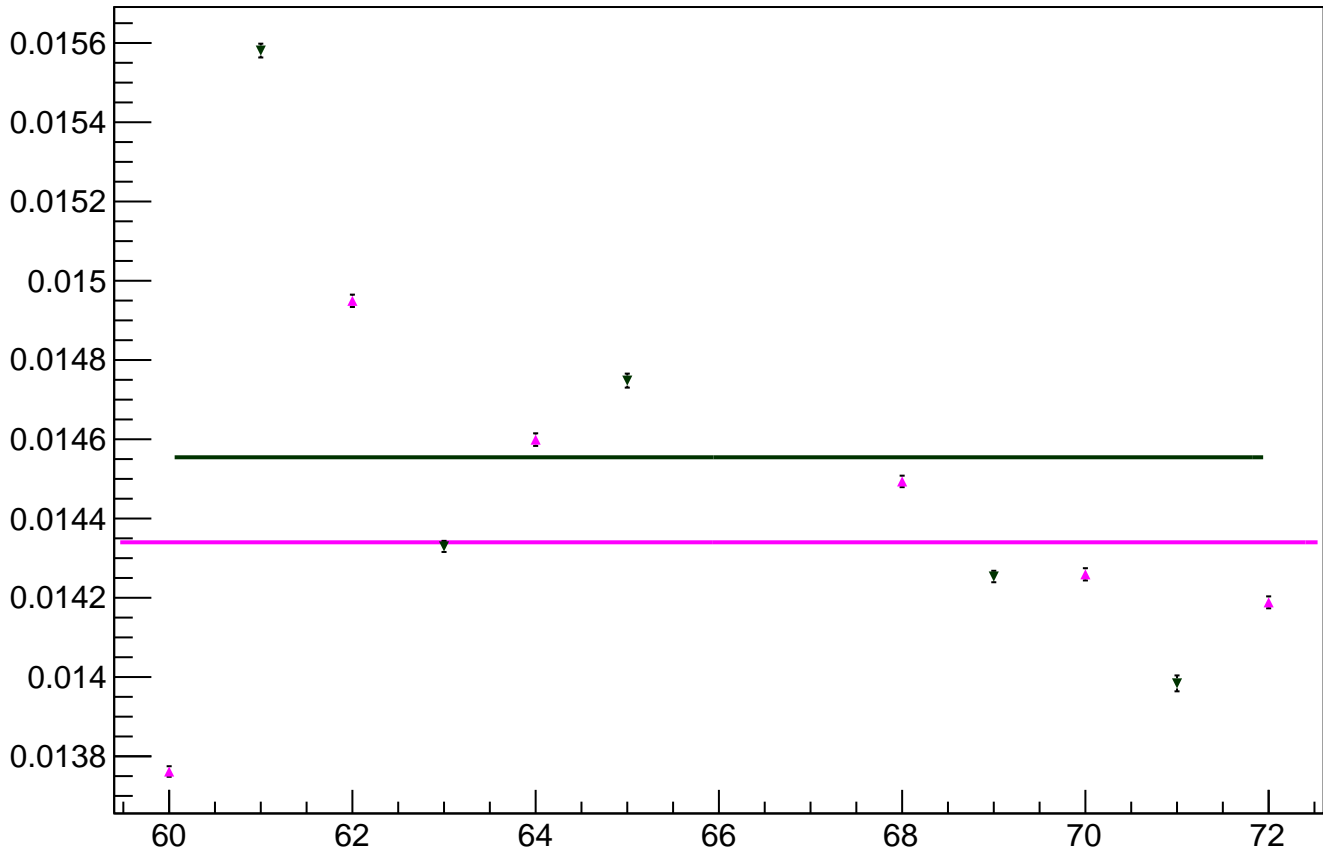
2.057+/-0.000  $\chi^2/\text{NDF}$ : 38784246.1/4

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

2.076+/-0.000  $\chi^2/\text{NDF}$ : 76674666.9/5

Left In: 2.076+/-0.000  $\chi^2/\text{NDF}$ : 76674666.9/5

# yield\_bpm2i02Y\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ :5082.7/4

0.015+/-0.000  $\chi^2/\text{NDF}$ : 5082.7/4

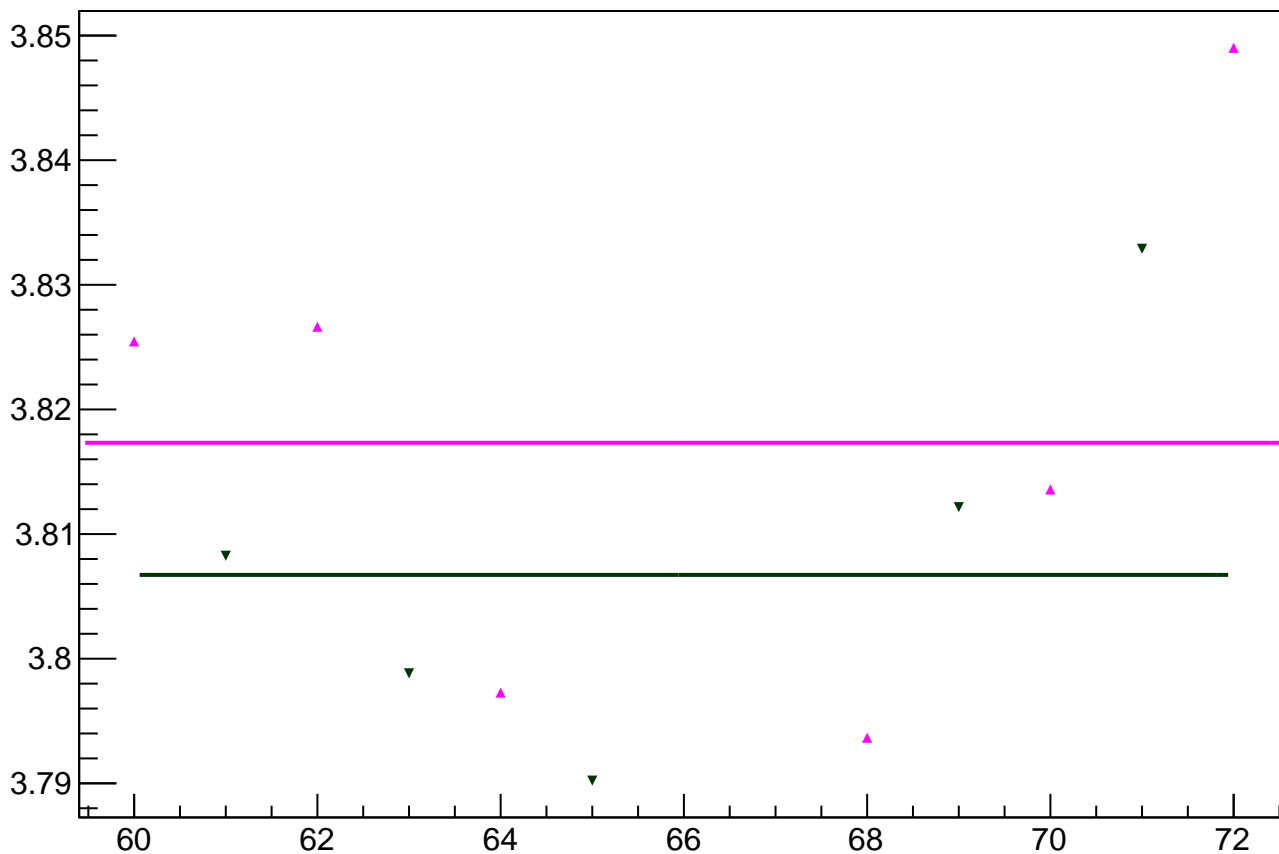
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

0.014+/-0.000  $\chi^2/\text{NDF}$ : 3913.3/5

Left In: 0.014+/-0.000  $\chi^2/\text{NDF}$ :3913.3/5



# yield\_bpm1i04X\_mean vs slug



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

Left Out: 3.807+/-0.000  $\chi^2/\text{NDF}$ : 4314144.0/4

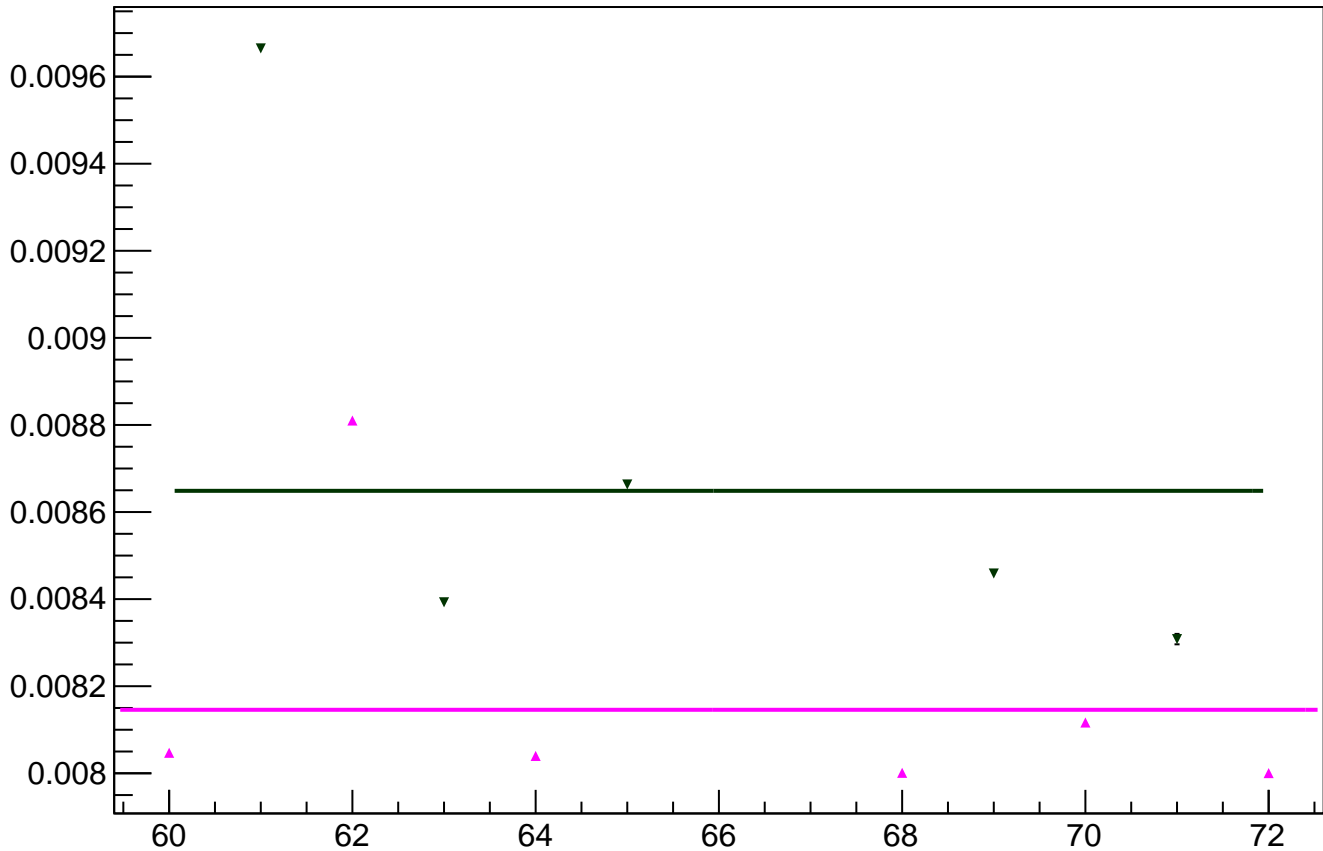
3.807+/-0.000  $\chi^2/\text{NDF}$ : 4314144.0/4

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

3.817+/-0.000  $\chi^2/\text{NDF}$ : 15000380.4/5

Left In: 3.817+/-0.000  $\chi^2/\text{NDF}$ : 15000380.4/5

# yield\_bpm1i04X\_rms vs slug



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

0.009+/-0.000  $\chi^2/\text{NDF}$ : 10995.7/4

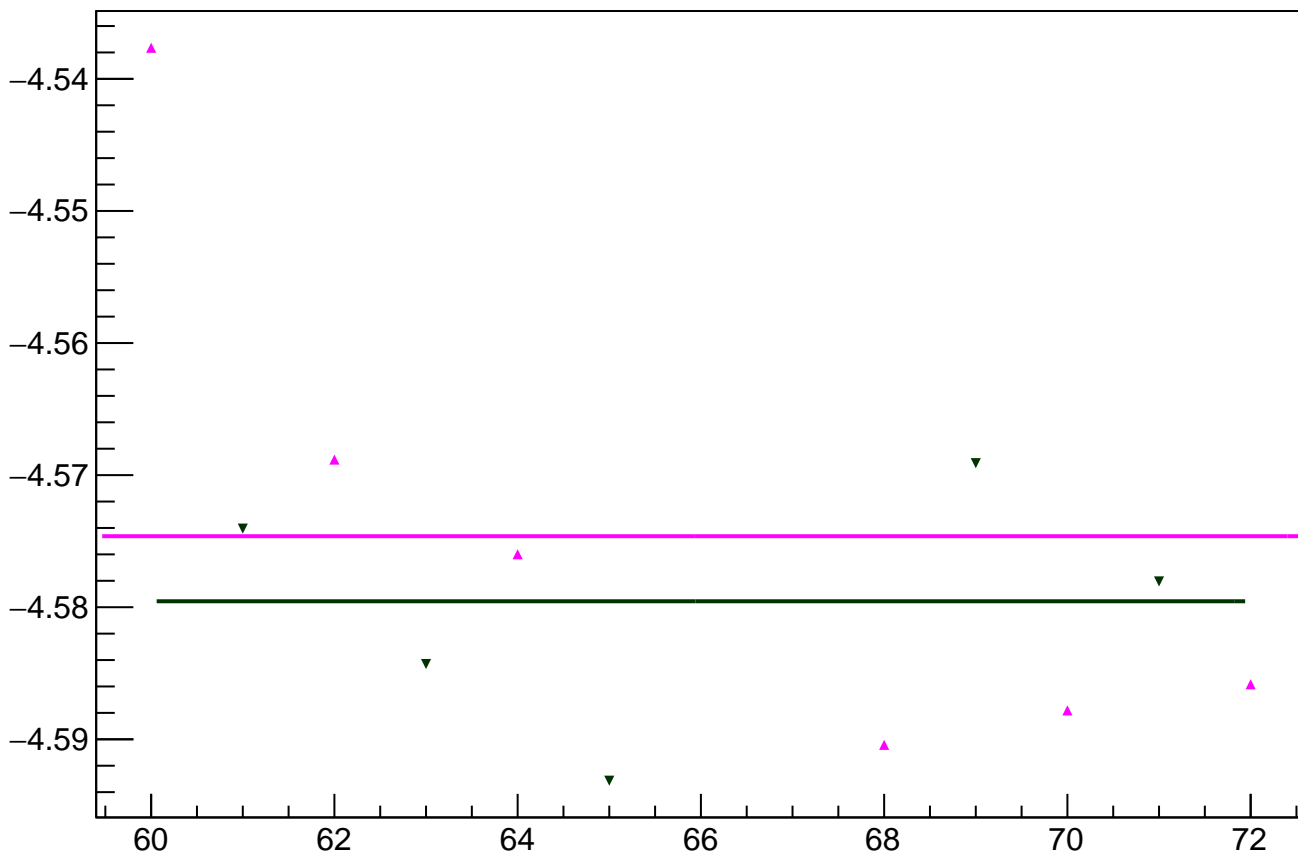
Left Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 10995.7/4

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 5985.8/5

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5985.8/5

# yield\_bpm1i04Y\_mean vs slug



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

Left Out: -4.580+/-0.000  $\chi^2/\text{NDF}$ : 7832529.0/4

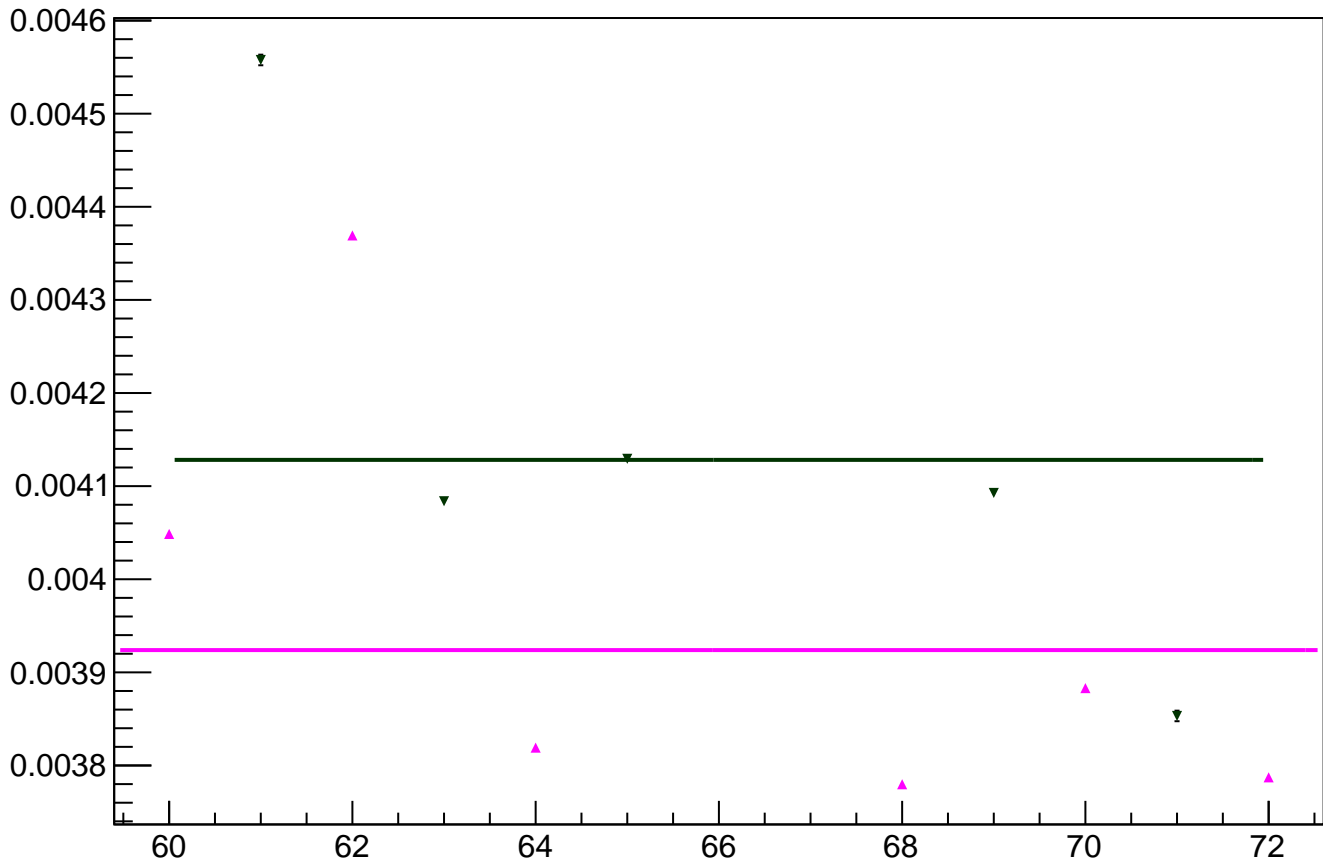
-4.580+/-0.000  $\chi^2/\text{NDF}$ : 7832529.0/4

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

-4.575+/-0.000  $\chi^2/\text{NDF}$ : 60479907.0/5

Left In: -4.575+/-0.000  $\chi^2/\text{NDF}$ : 60479907.0/5

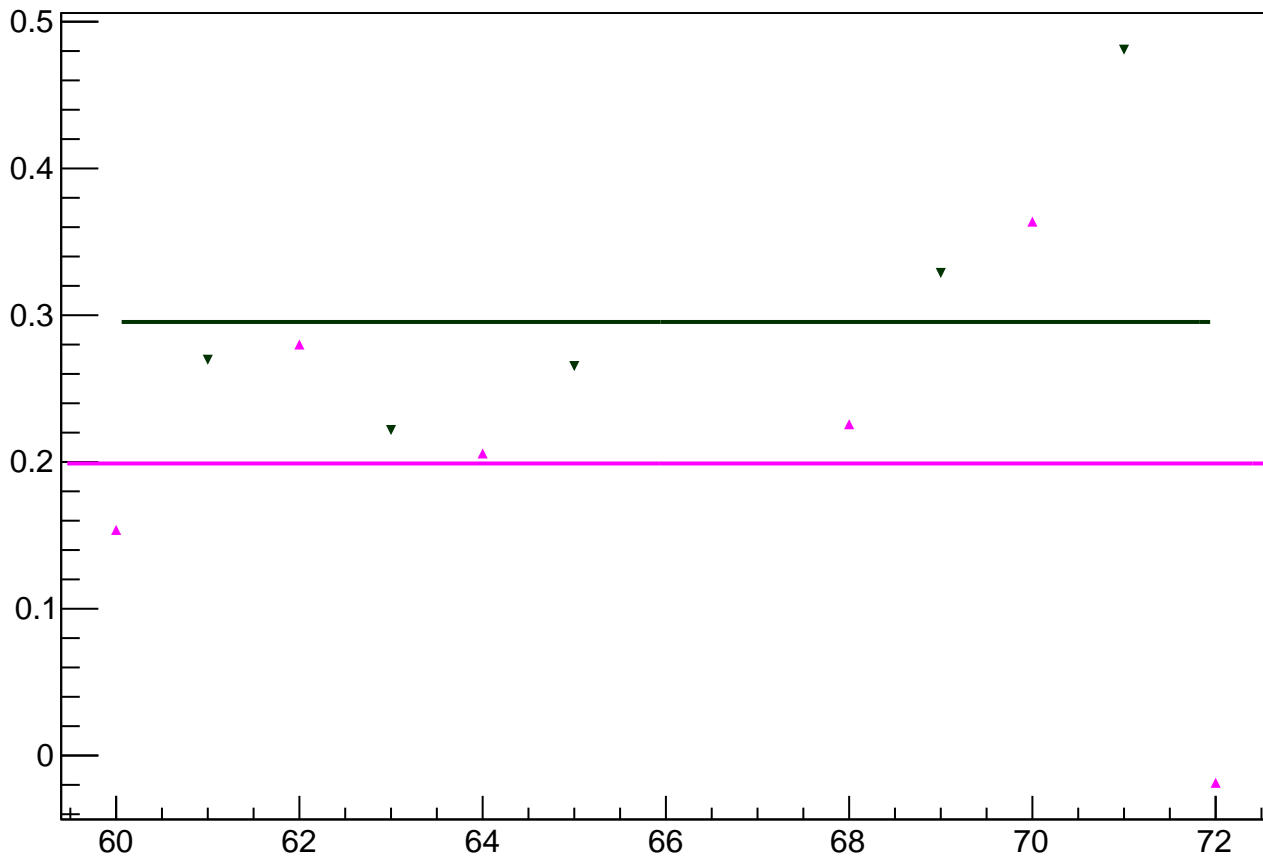
# yield\_bpm1i04Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 8242.1/4  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 12396.6/5

0.004+/-0.000  $\chi^2/\text{NDF}$ : 8242.1/4  
0.004+/-0.000  $\chi^2/\text{NDF}$ : 12396.6/5

# yield\_bpm0l01X\_mean vs slug



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

Left Out: 0.295+/-0.000  $\chi^2/\text{NDF}$ :140818557.8/4

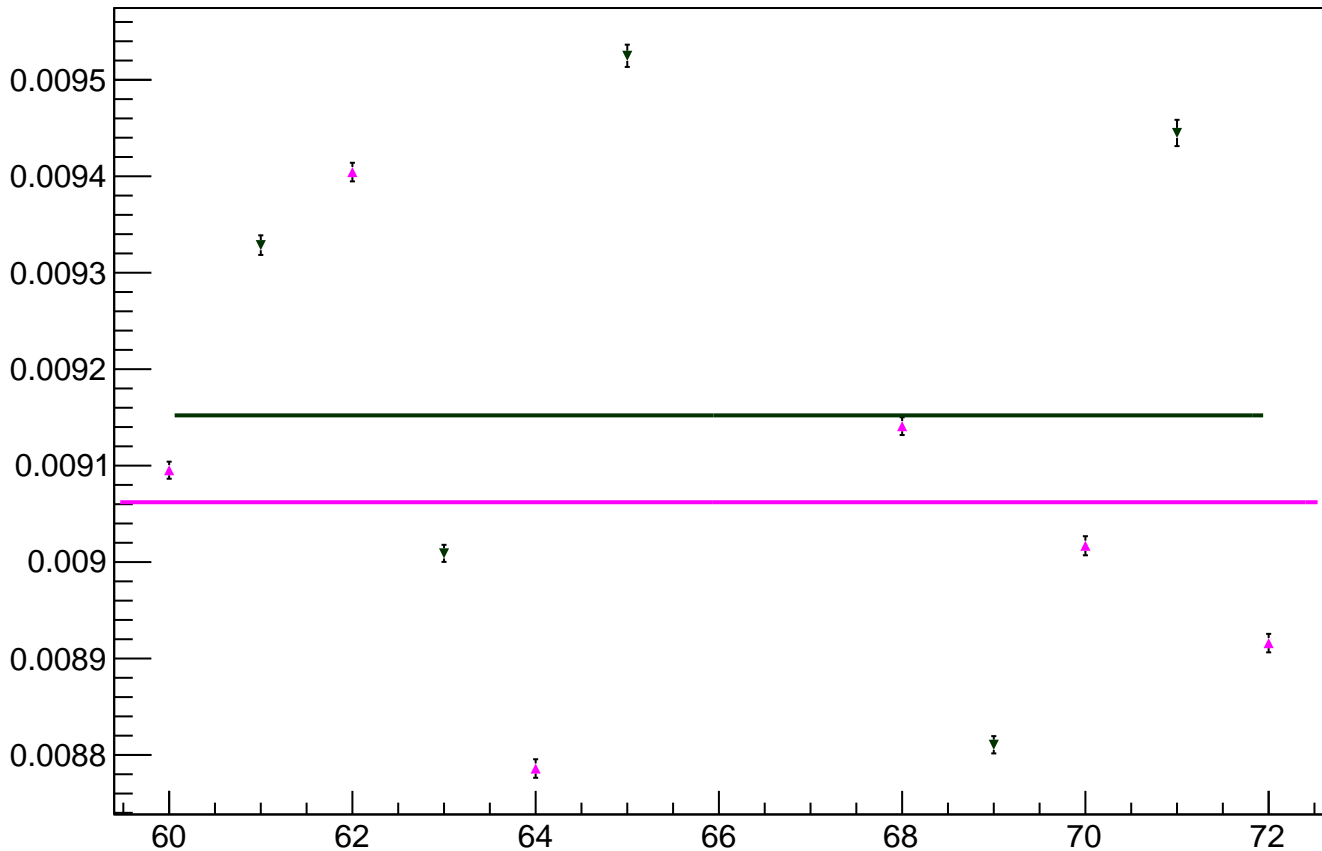
0.295+/-0.000  $\chi^2/\text{NDF}$ : 140818557.8/4

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

0.199+/-0.000  $\chi^2/\text{NDF}$ : 449391726.2/5

Left In: 0.199+/-0.000  $\chi^2/\text{NDF}$ :449391726.2/5

# yield\_bpm0l01X\_rms vs slug



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

Left Out: 0.009+/-0.000  $\chi^2$ /NDF:3521.9/4

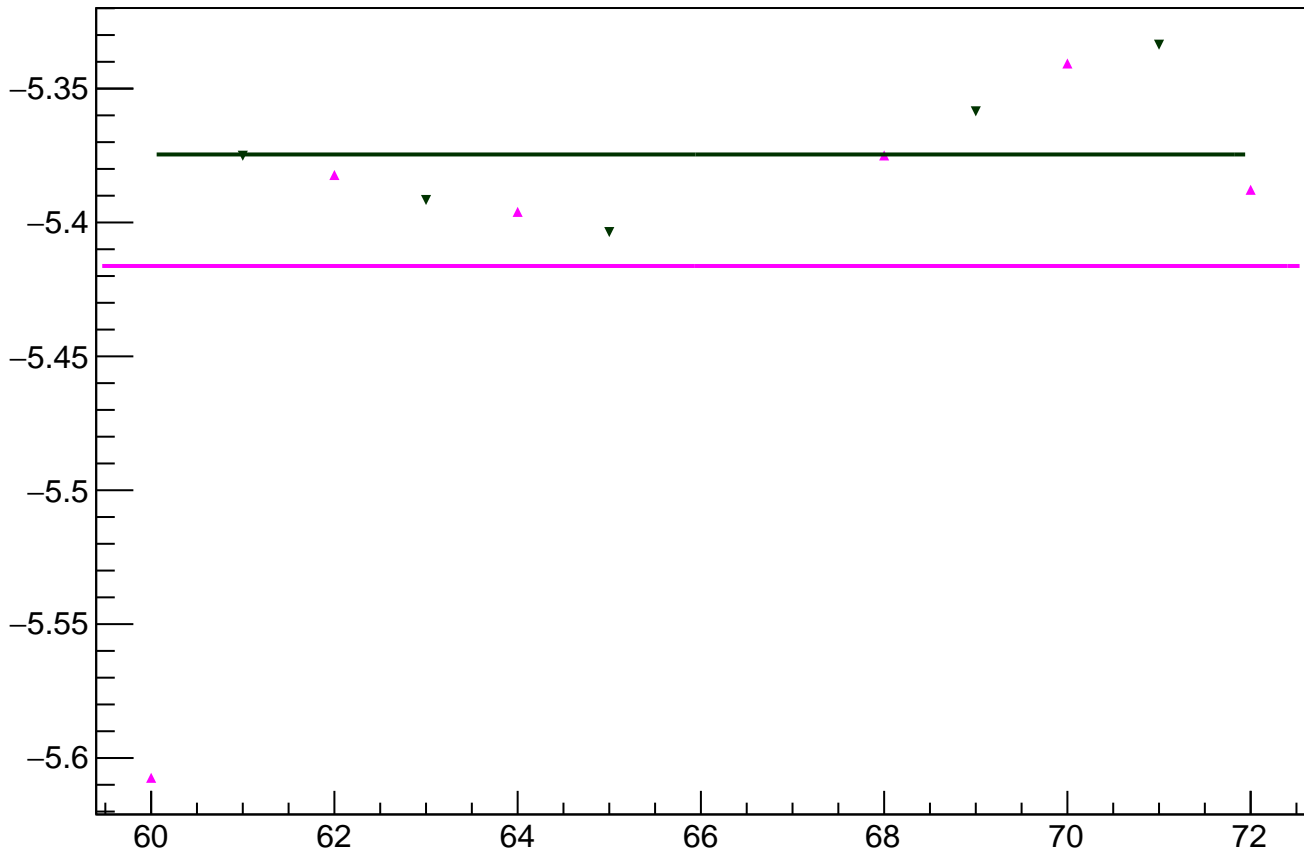
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.009+/-0.000  $\chi^2$ /NDF:2427.1/5

0.009+/-0.000  $\chi^2$ /NDF: 3521.9/4

0.009+/-0.000  $\chi^2$ /NDF: 2427.1/5

# yield\_bpm0l01Y\_mean vs slug



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

Left Out: -5.375+/-0.000  $\chi^2/\text{NDF}$ : 31454266.3/4

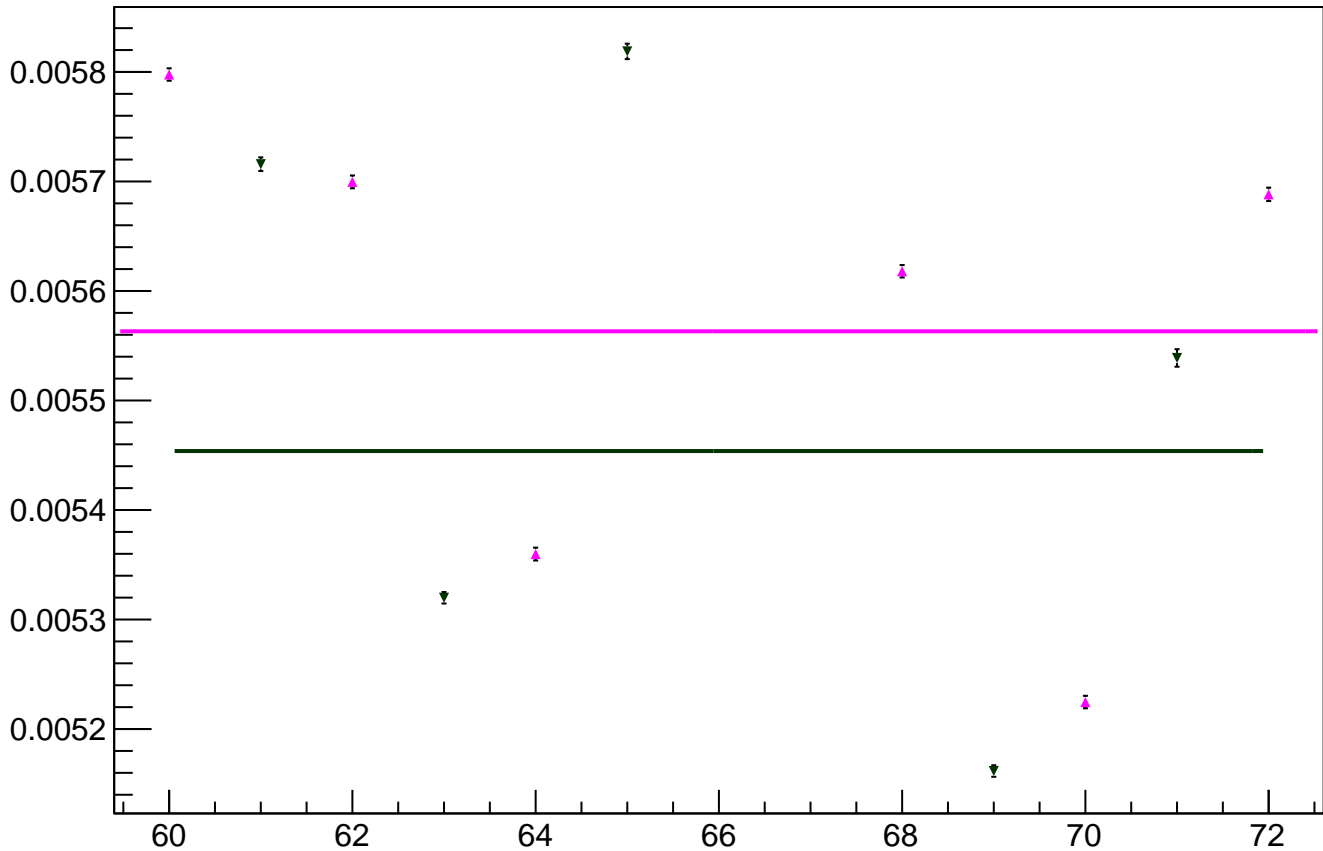
-5.375+/-0.000  $\chi^2/\text{NDF}$ : 31454266.3/4

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

-5.416+/-0.000  $\chi^2/\text{NDF}$ : 711875838.4/5

Left In: -5.416+/-0.000  $\chi^2/\text{NDF}$ : 711875838.4/5

# yield\_bpm0l01Y\_rms vs slug



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

Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ :8271.4/4

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

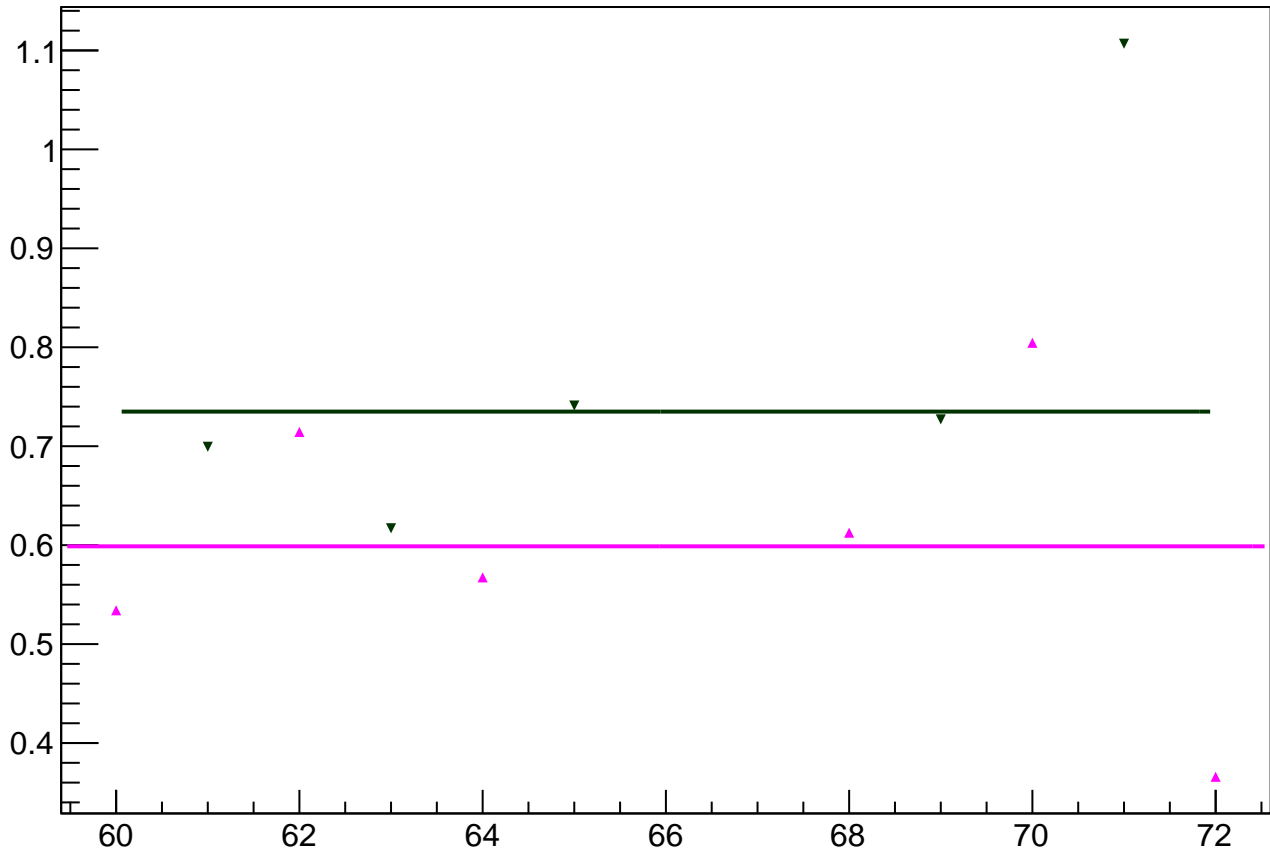
Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ :7445.0/5

0.005+/-0.000  $\chi^2/\text{NDF}$ : 8271.4/4

0.006+/-0.000  $\chi^2/\text{NDF}$ : 7445.0/5



# yield\_bpm0l02X\_mean vs slug



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

Left Out: 0.735+/-0.000  $\chi^2/\text{NDF}$ : 146298047.6/4

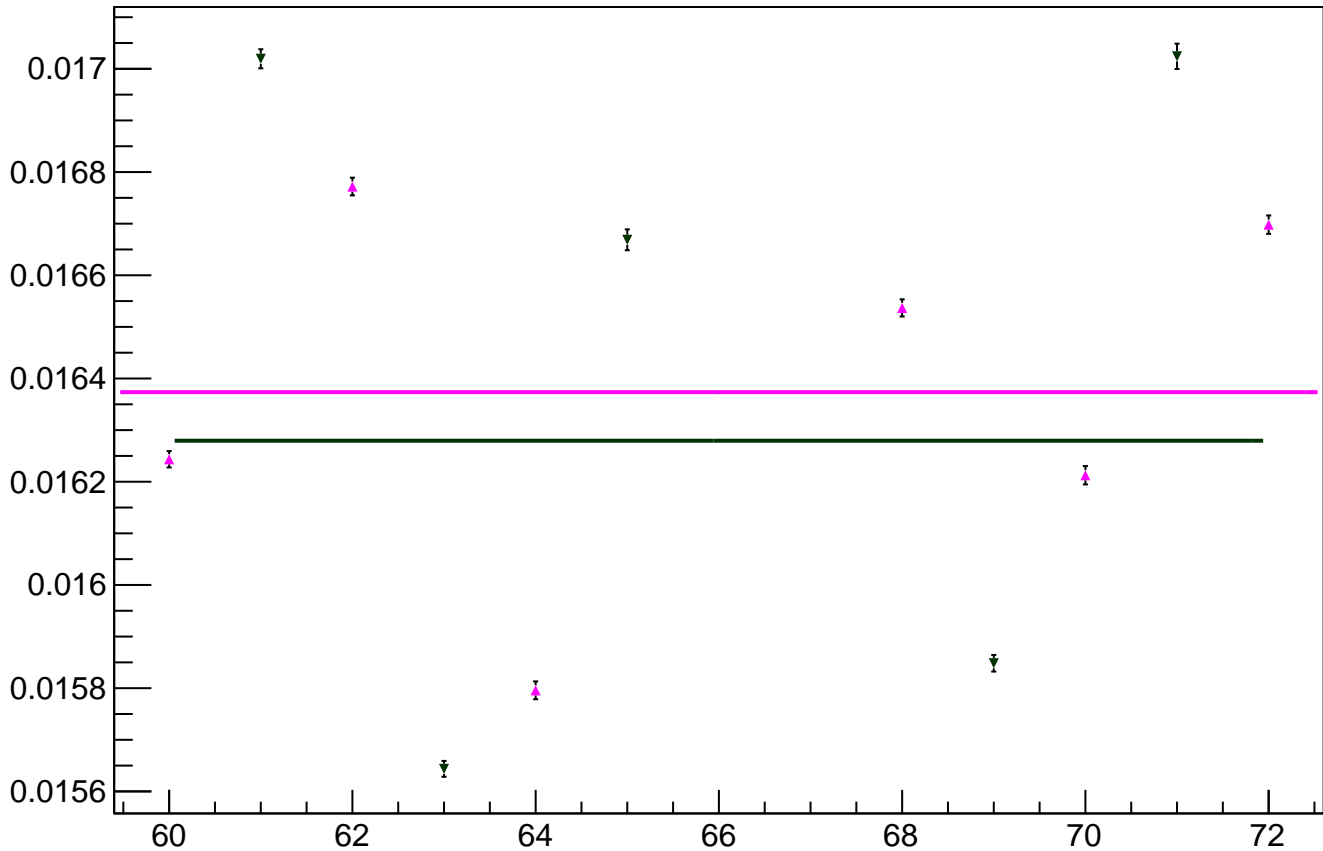
0.735+/-0.000  $\chi^2/\text{NDF}$ : 146298047.6/4

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

0.599+/-0.000  $\chi^2/\text{NDF}$ : 185058020.8/5

Left In: 0.599+/-0.000  $\chi^2/\text{NDF}$ : 185058020.8/5

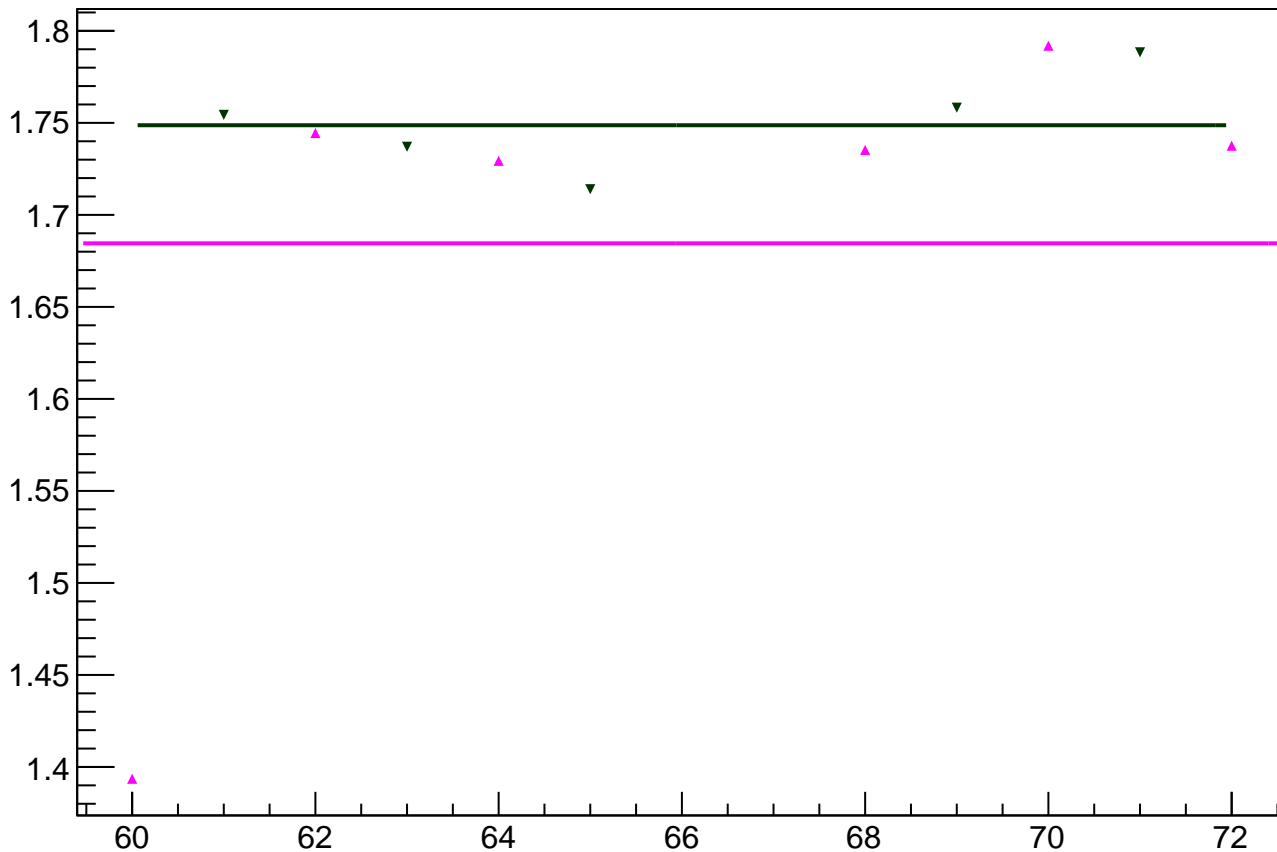
# yield\_bpm0l02X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.016+/-0.000  $\chi^2$ /NDF:5316.0/4  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.016+/-0.000  $\chi^2$ /NDF:2229.7/5

0.016+/-0.000  $\chi^2$ /NDF: 5316.0/4  
0.016+/-0.000  $\chi^2$ /NDF: 2229.7/5

# yield\_bpm0l02Y\_mean vs slug



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

Left Out: 1.749+/-0.000  $\chi^2$ /NDF:9654283.2/4

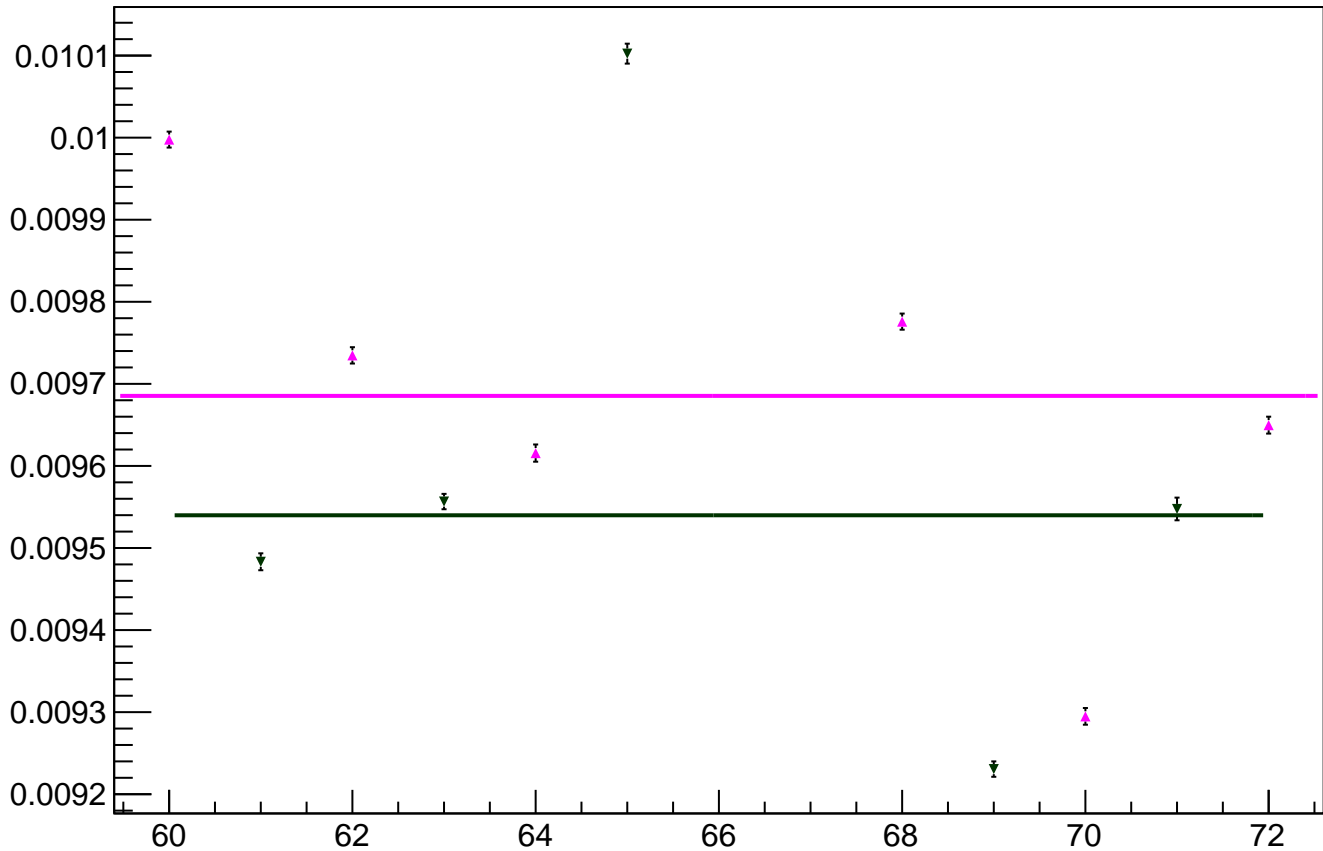
1.749+/-0.000  $\chi^2$ /NDF: 9654283.2/4

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

1.685+/-0.000  $\chi^2$ /NDF: 557501810.4/5

Left In: 1.685+/-0.000  $\chi^2$ /NDF:557501810.4/5

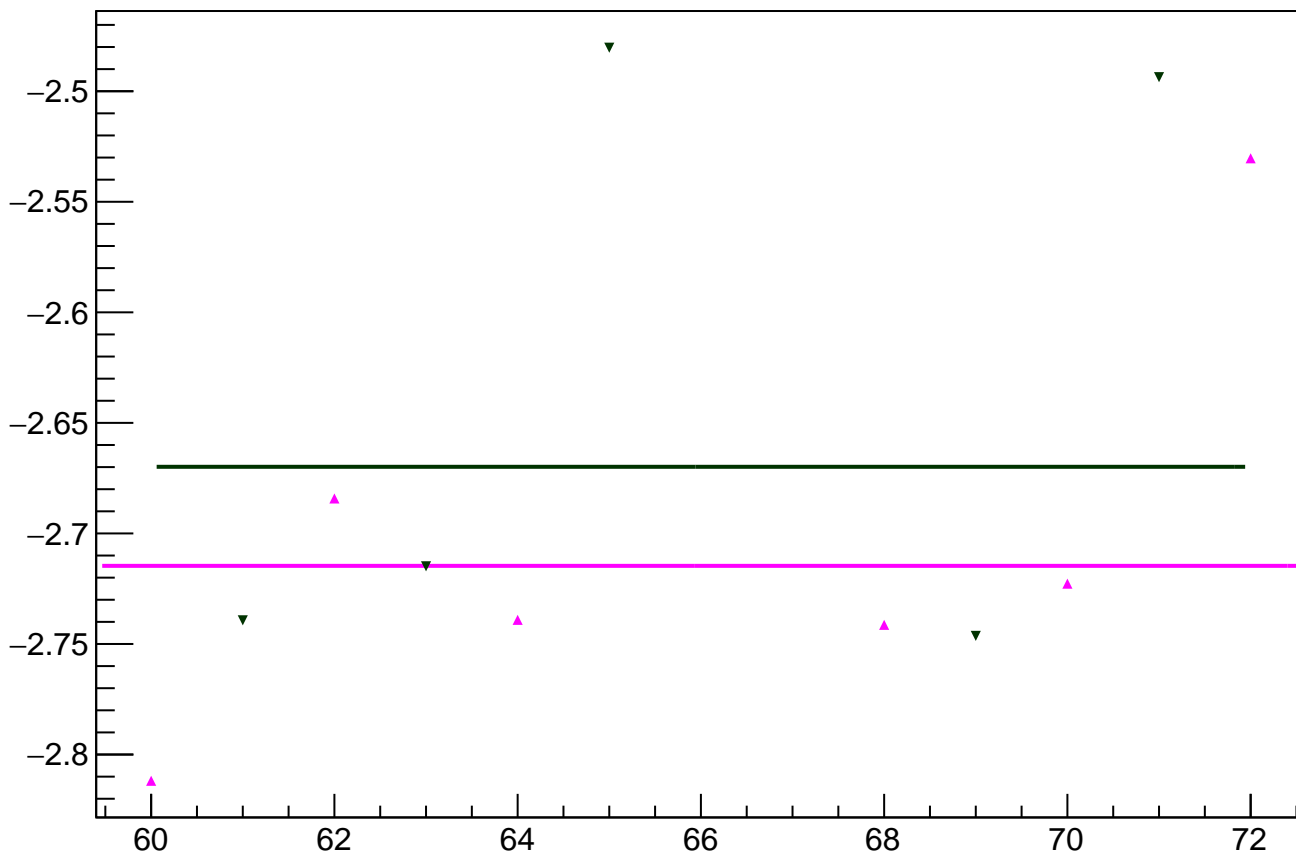
# yield\_bpm0l02Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 3262.5/4  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 2670.9/5

0.010+/-0.000  $\chi^2/\text{NDF}$ : 3262.5/4  
0.010+/-0.000  $\chi^2/\text{NDF}$ : 2670.9/5

# yield\_bpm0l03X\_mean vs slug



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

Left Out: -2.670+/-0.000  $\chi^2/\text{NDF}$ : 324986669.4/4

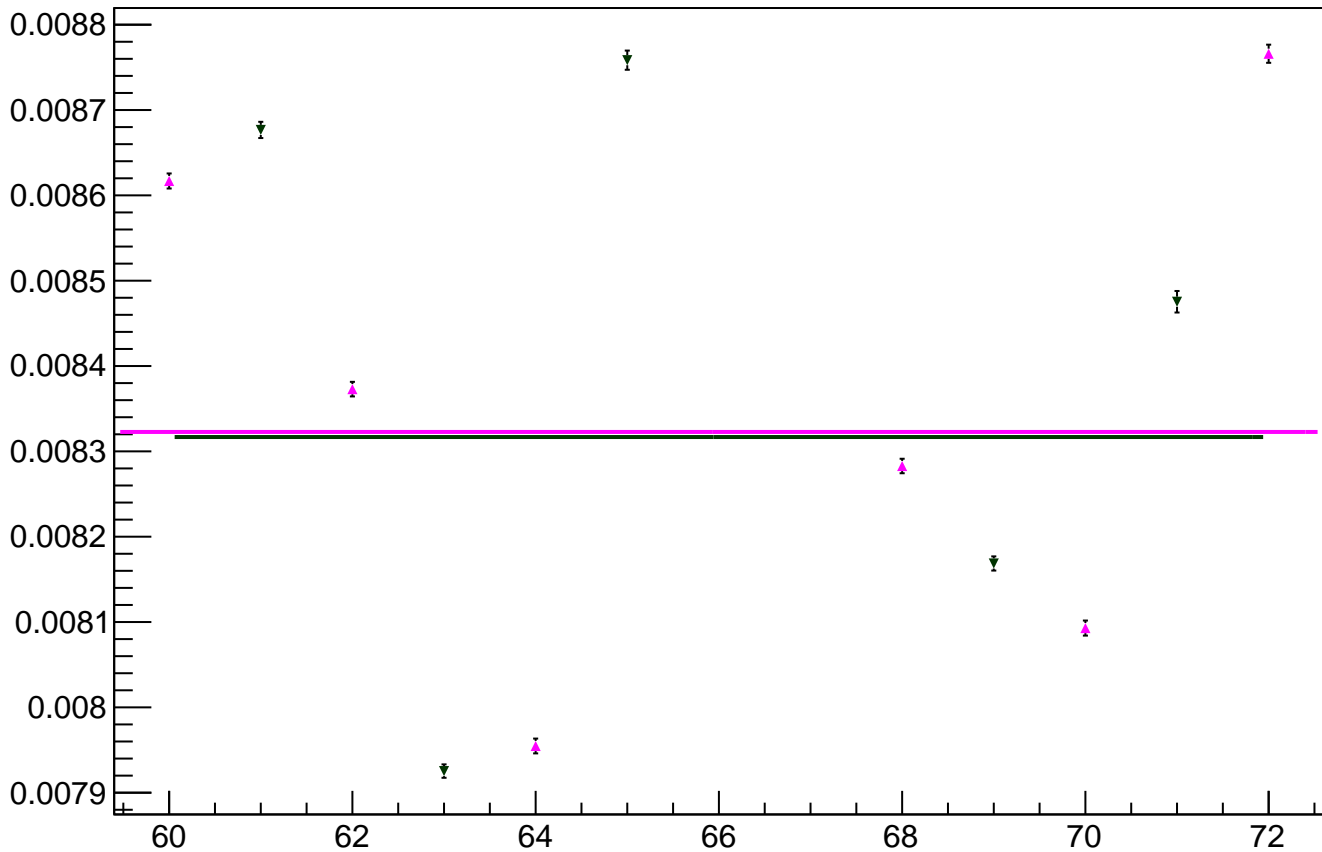
-2.670+/-0.000  $\chi^2/\text{NDF}$ : 324986669.4/4

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

-2.715+/-0.000  $\chi^2/\text{NDF}$ : 226847340.3/5

Left In: -2.715+/-0.000  $\chi^2/\text{NDF}$ : 226847340.3/5

# yield\_bpm0l03X\_rms vs slug



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

Left Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5928.5/4

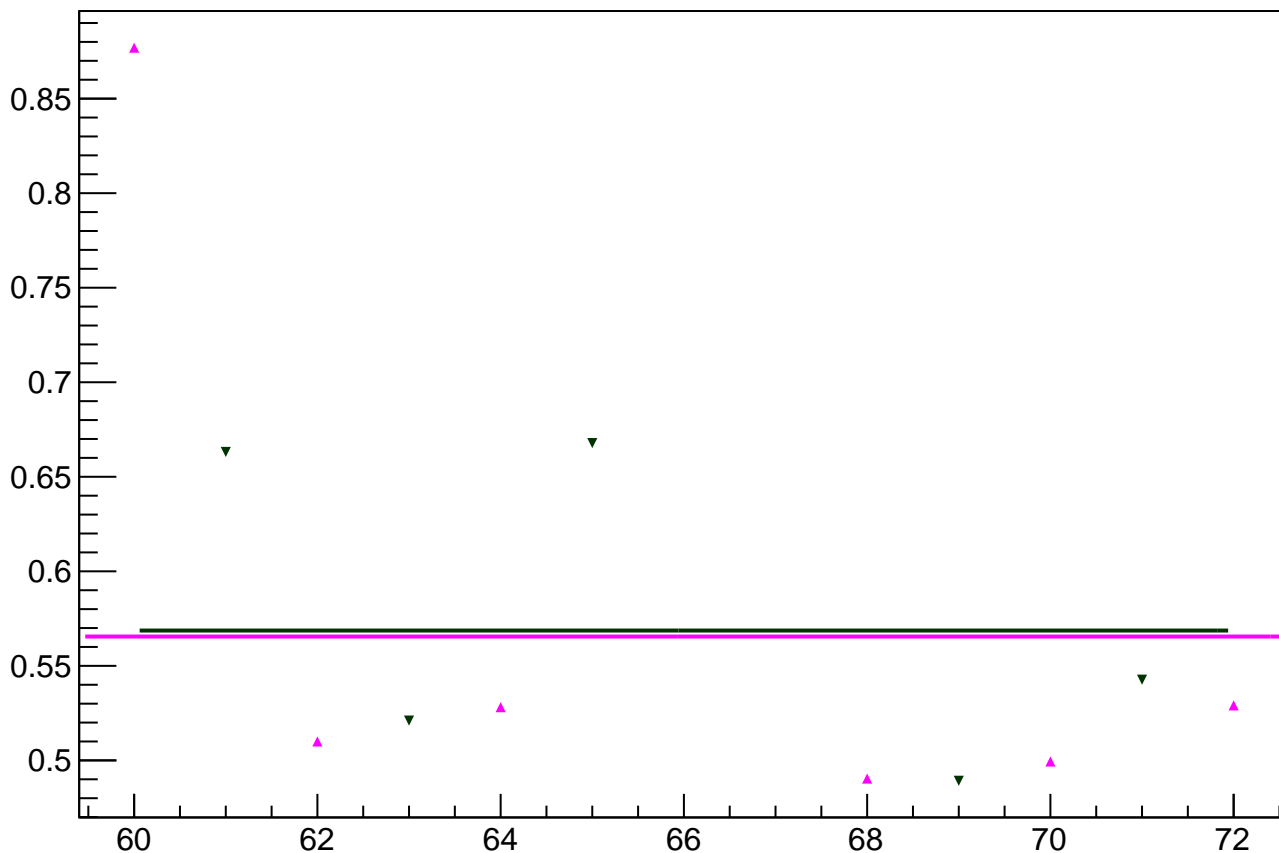
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5385.0/5

0.008+/-0.000  $\chi^2/\text{NDF}$ : 5928.5/4

0.008+/-0.000  $\chi^2/\text{NDF}$ : 5385.0/5

# yield\_bpm0l03Y\_mean vs slug



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

Left Out: 0.569+/-0.000  $\chi^2/\text{NDF}$ :287473551.4/4

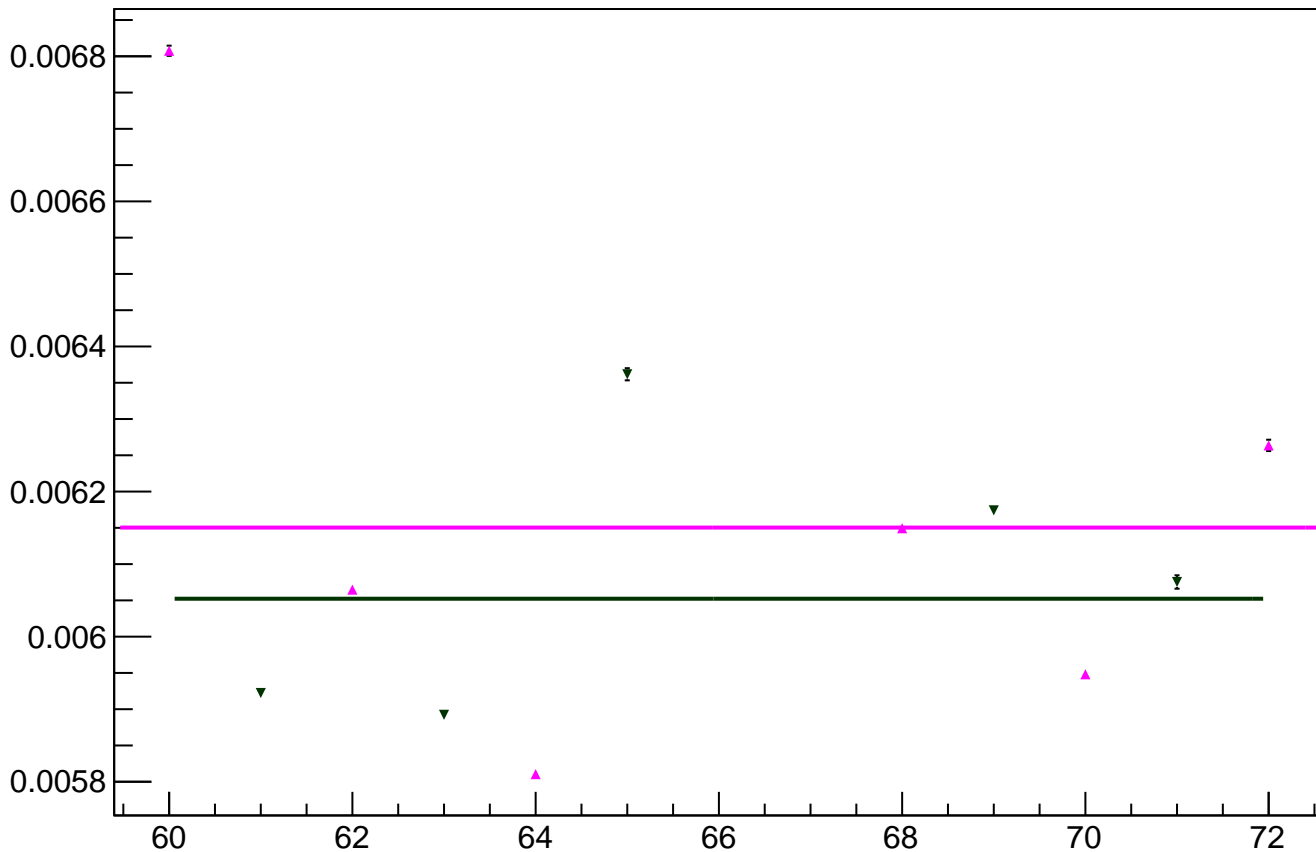
0.569+/-0.000  $\chi^2/\text{NDF}$ : 287473551.4/4

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

0.566+/-0.000  $\chi^2/\text{NDF}$ : 1168040541.0/5

Left In: 0.566+/-0.000  $\chi^2/\text{NDF}$ :1168040541.0/5

# yield\_bpm0l03Y\_rms vs slug



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

Left Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2857.0/4

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

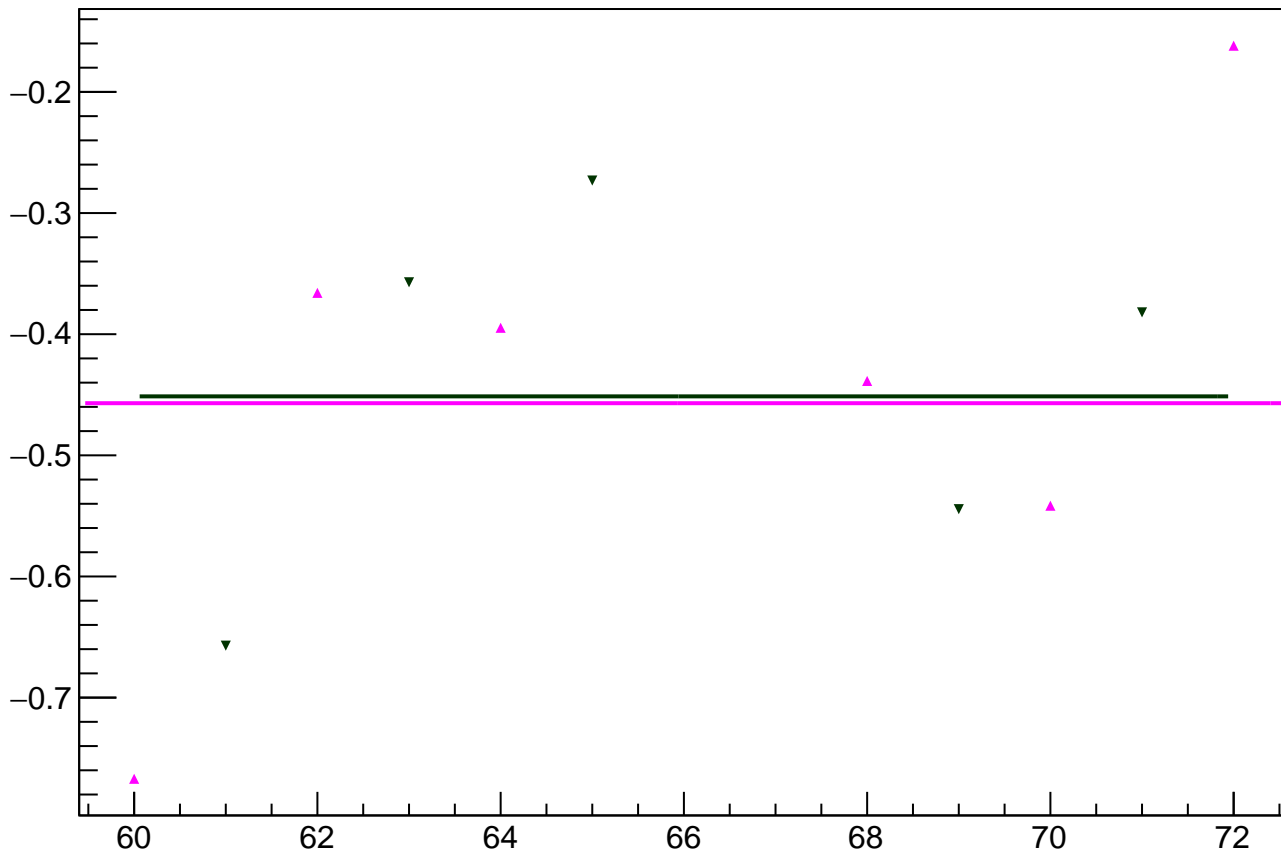
Left In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 12891.3/5

0.006+/-0.000  $\chi^2/\text{NDF}$ : 2857.0/4

0.006+/-0.000  $\chi^2/\text{NDF}$ : 12891.3/5



# yield\_bpm0l04X\_mean vs slug



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

Left Out: -0.451+/-0.000  $\chi^2/\text{NDF}$ : 122548828.3/4

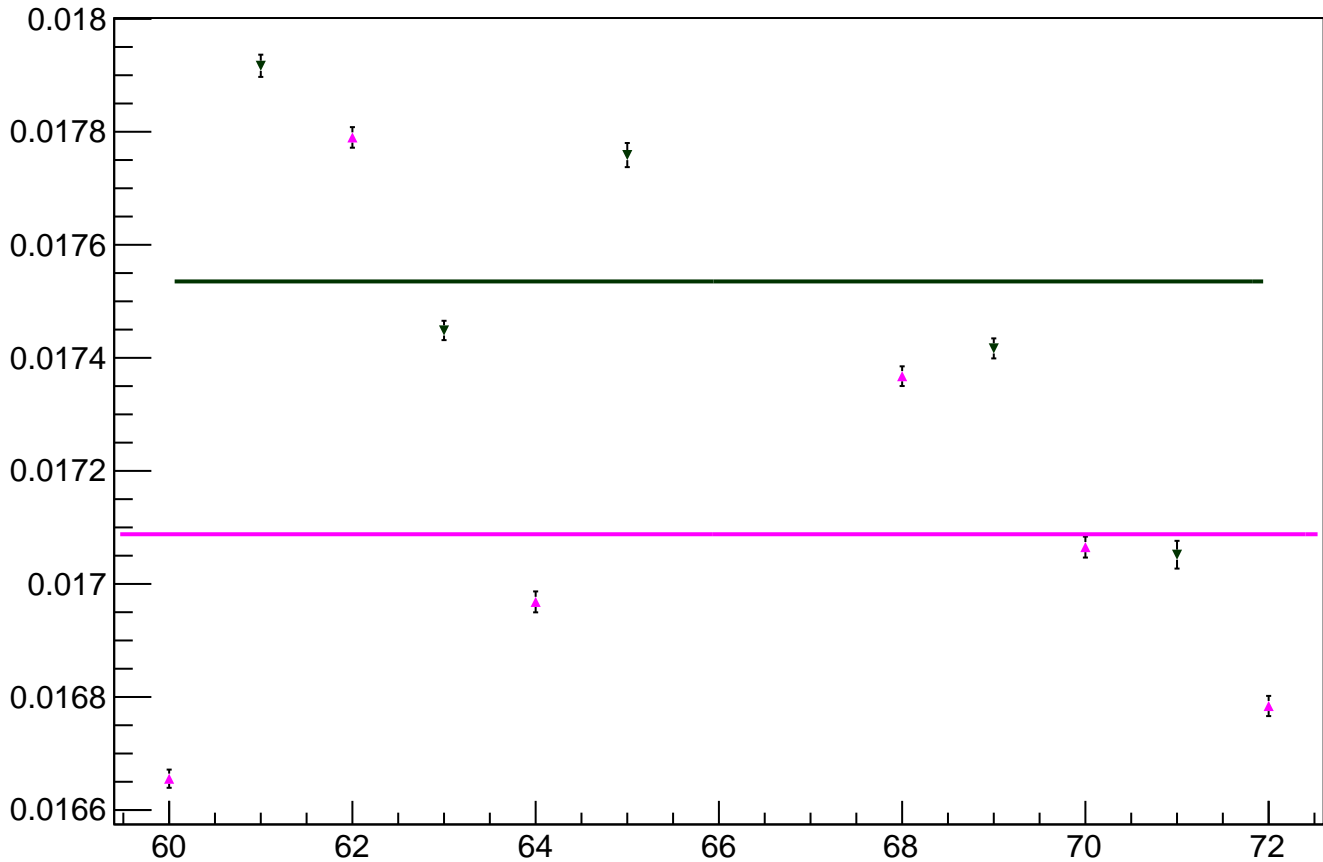
-0.451+/-0.000  $\chi^2/\text{NDF}$ : 122548828.3/4

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

Left In: -0.457+/-0.000  $\chi^2/\text{NDF}$ : 351250224.4/5

-0.457+/-0.000  $\chi^2/\text{NDF}$ : 351250224.4/5

# yield\_bpm0l04X\_rms vs slug



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

Left Out: 0.018+/-0.000  $\chi^2$ /NDF:944.0/4

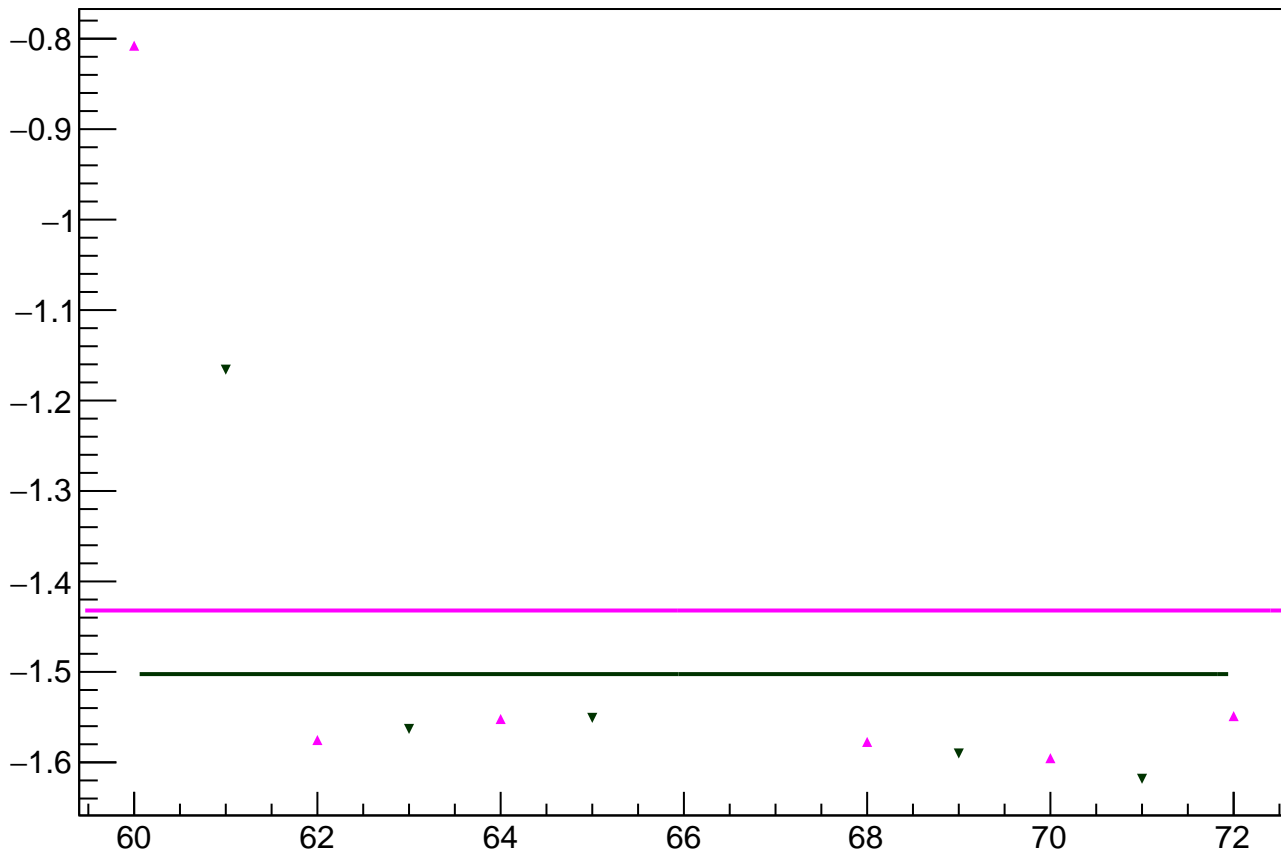
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.017+/-0.000  $\chi^2$ /NDF:2798.7/5

0.018+/-0.000  $\chi^2$ /NDF: 944.0/4

0.017+/-0.000  $\chi^2$ /NDF: 2798.7/5

# yield\_bpm0l04Y\_mean vs slug



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

Left Out: -1.502+/-0.000  $\chi^2$ /NDF:1905135048.1/4

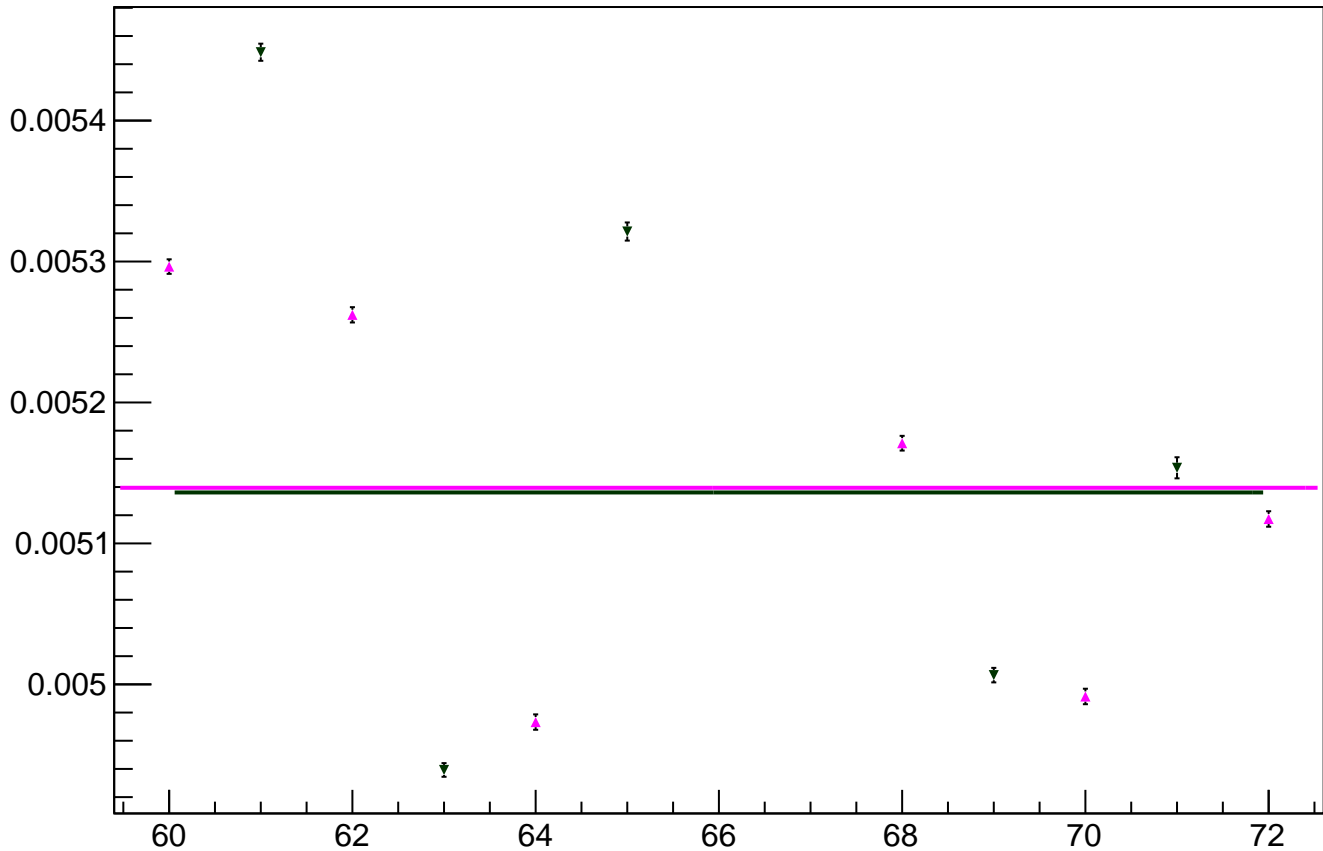
-1.502+/-0.000  $\chi^2$ /NDF: 1905135048.1/4

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

-1.432+/-0.000  $\chi^2$ /NDF: 8966897360.1/5

Left In: -1.432+/-0.000  $\chi^2$ /NDF:8966897360.1/5

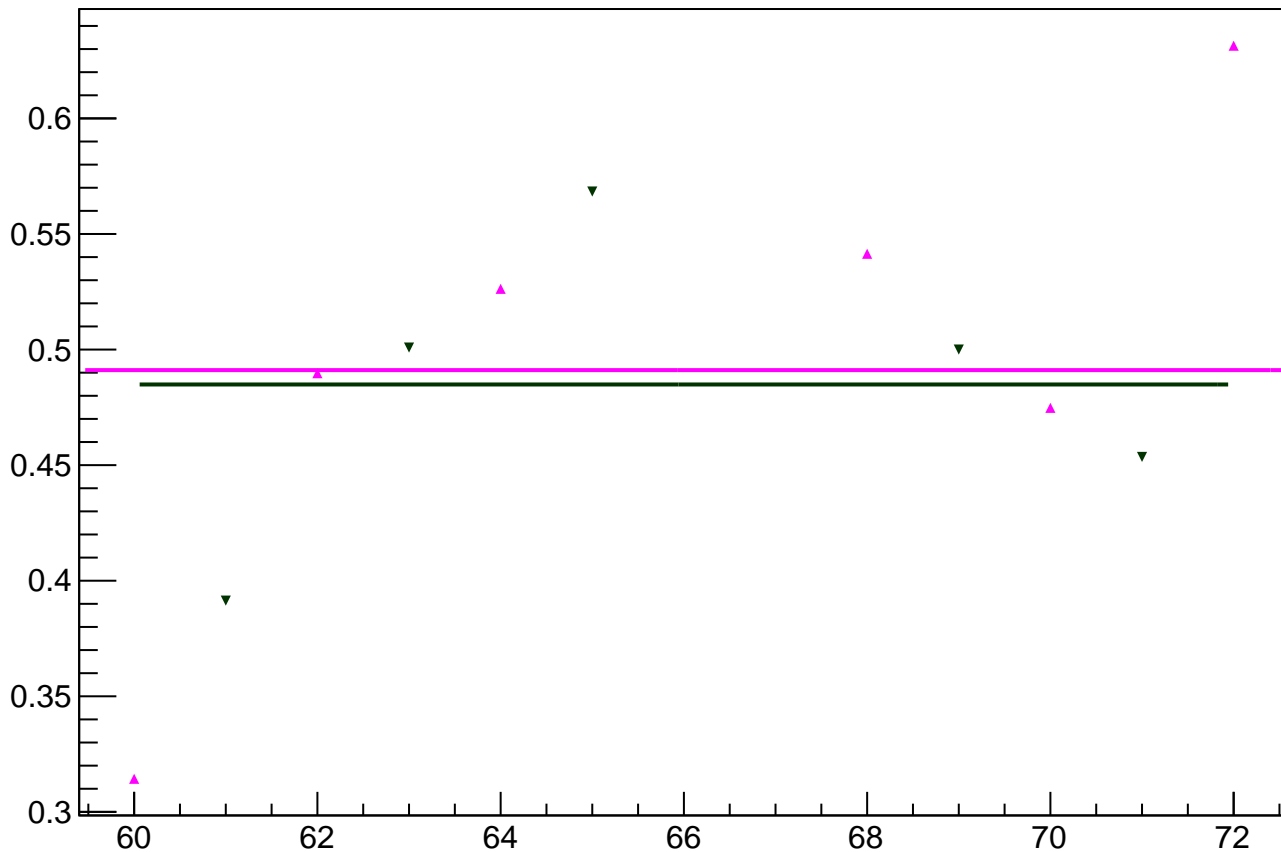
# yield\_bpm0l04Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ :5755.4/4  
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
Left In: 0.005+/-0.000  $\chi^2/\text{NDF}$ :3141.3/5

0.005+/-0.000  $\chi^2/\text{NDF}$ : 5755.4/4  
0.005+/-0.000  $\chi^2/\text{NDF}$ : 3141.3/5

# yield\_bpm0l05X\_mean vs slug



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

Left Out: 0.485+/-0.000  $\chi^2/\text{NDF}$ : 110882064.4/4

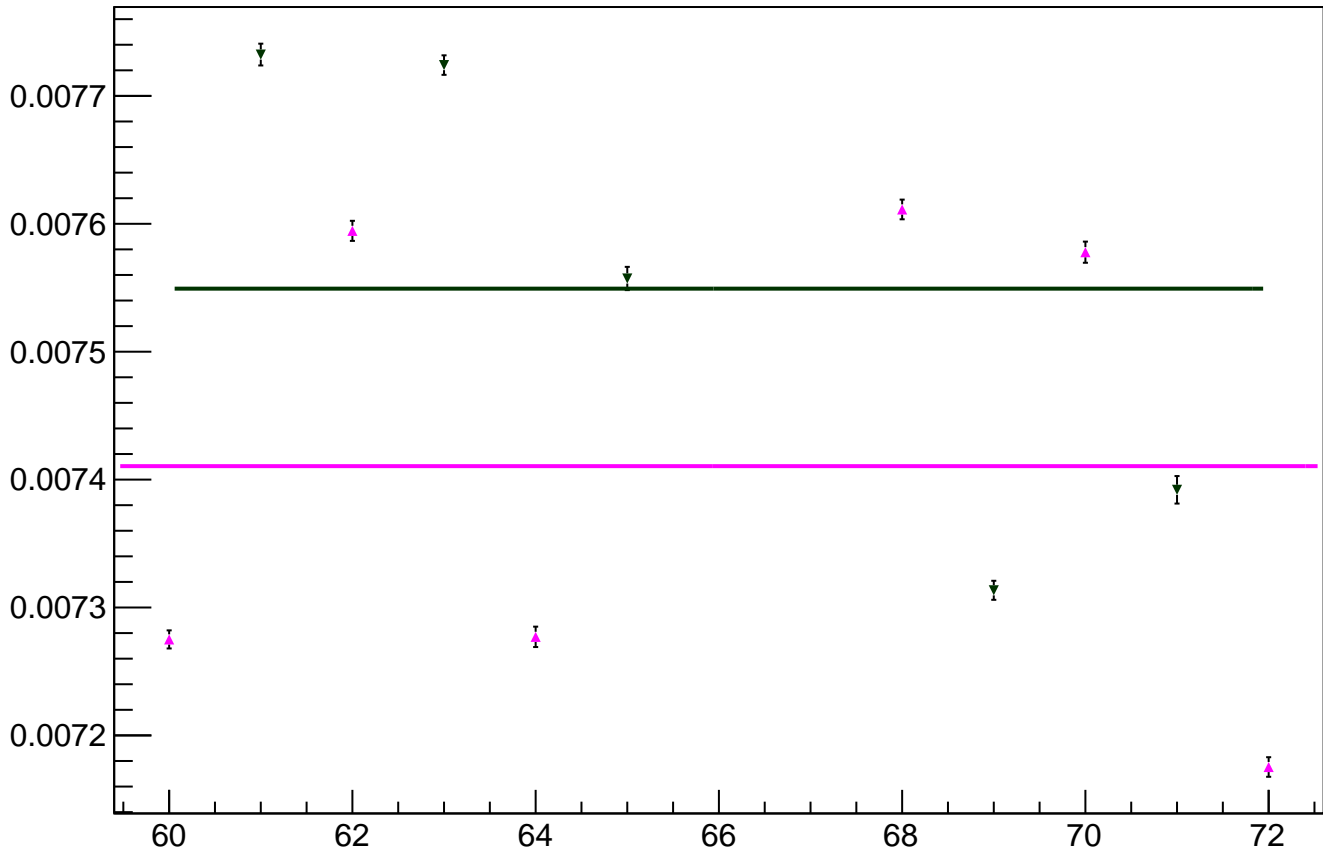
0.485+/-0.000  $\chi^2/\text{NDF}$ : 110882064.4/4

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

Left In: 0.491+/-0.000  $\chi^2/\text{NDF}$ : 513233683.6/5

0.491+/-0.000  $\chi^2/\text{NDF}$ : 513233683.6/5

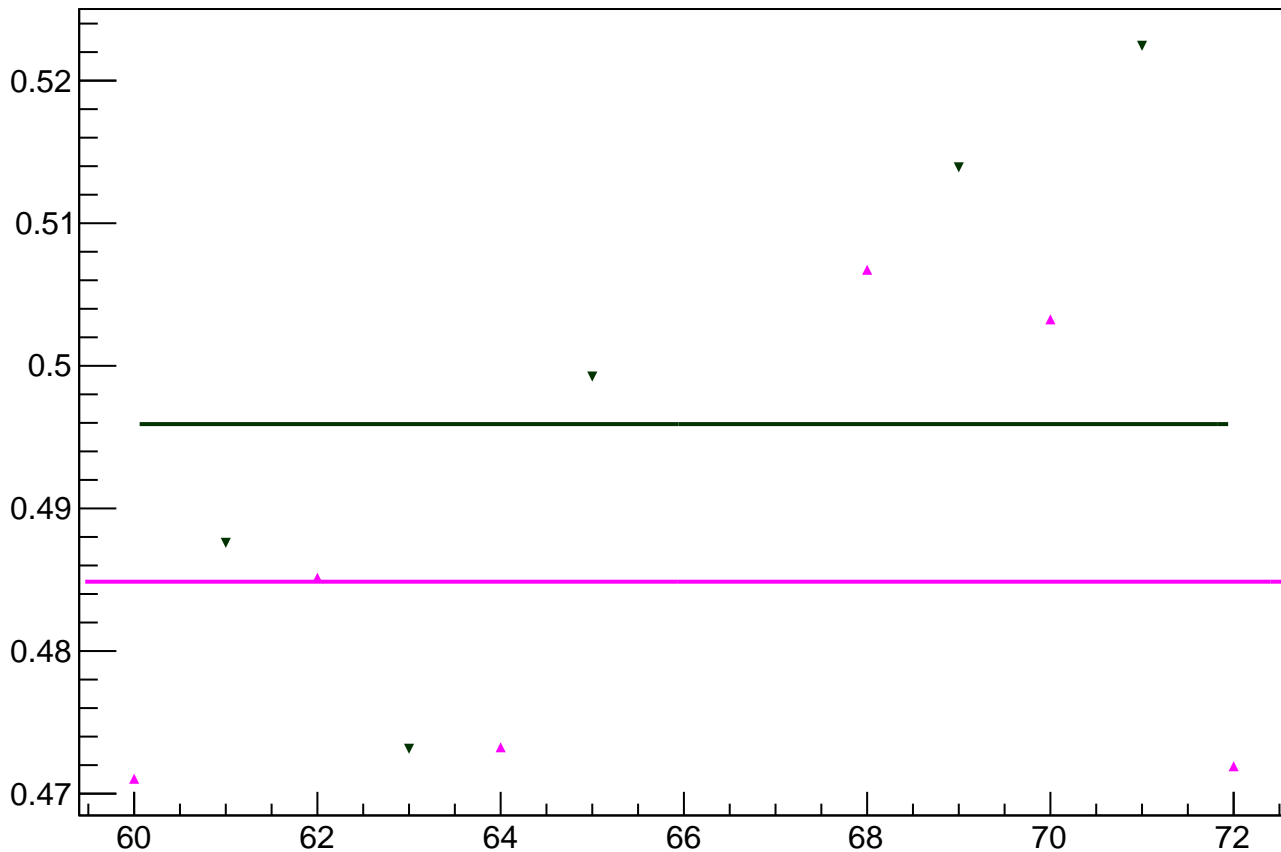
# yield\_bpm0l05X\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left Out: 0.008+/-0.000  $\chi^2$ /NDF:2206.2/4  
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
Left In: 0.007+/-0.000  $\chi^2$ /NDF:3227.6/5

0.008+/-0.000  $\chi^2$ /NDF: 2206.2/4  
0.007+/-0.000  $\chi^2$ /NDF: 3227.6/5

# yield\_bpm0l05Y\_mean vs slug



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

Left Out: 0.496+/-0.000  $\chi^2/\text{NDF}$ : 35462498.3/4

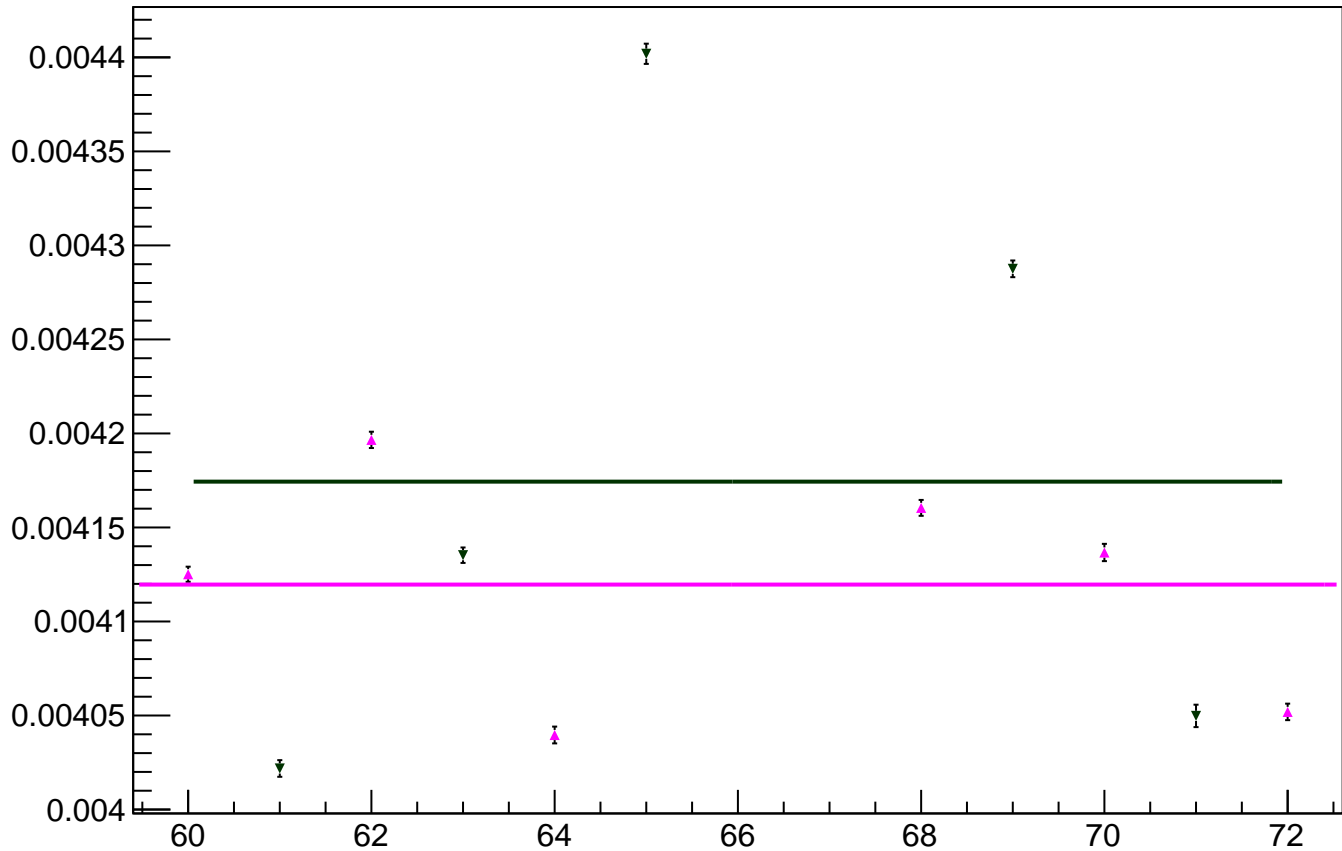
0.496+/-0.000  $\chi^2/\text{NDF}$ : 35462498.3/4

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

Left In: 0.485+/-0.000  $\chi^2/\text{NDF}$ : 35091567.3/5

0.485+/-0.000  $\chi^2/\text{NDF}$ : 35091567.3/5

# yield\_bpm0l05Y\_rms vs slug



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

Left Out: 0.004+/-0.000  $\chi^2$ /NDF:4153.0/4

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

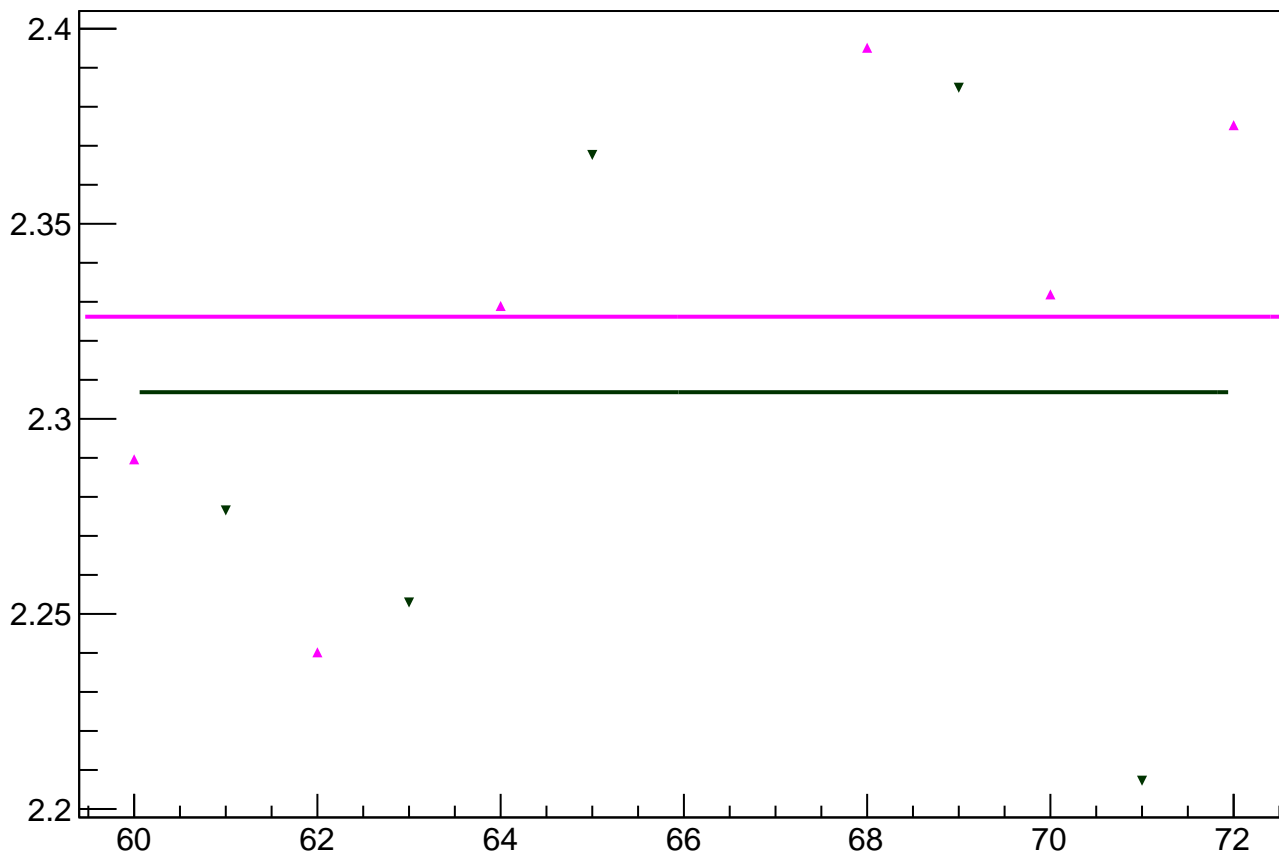
Left In: 0.004+/-0.000  $\chi^2$ /NDF:984.1/5

0.004+/-0.000  $\chi^2$ /NDF: 4153.0/4

0.004+/-0.000  $\chi^2$ /NDF: 984.1/5



# yield\_bpm0l06X\_mean vs slug



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

Left Out: 2.307+/-0.000  $\chi^2$ /NDF:92395736.9/4

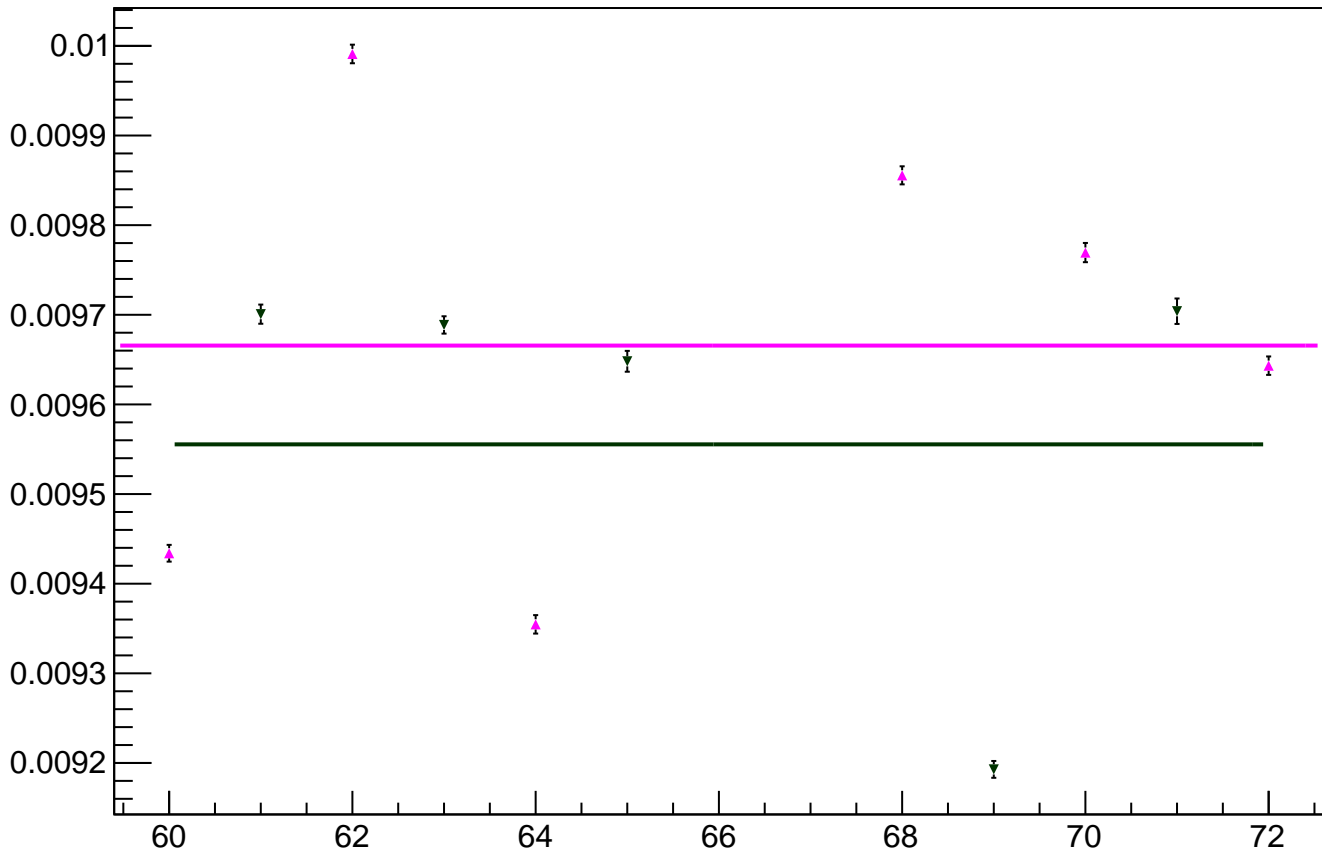
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 2.326+/-0.000  $\chi^2$ /NDF:77083423.9/5

2.307+/-0.000  $\chi^2$ /NDF: 92395736.9/4

2.326+/-0.000  $\chi^2$ /NDF: 77083423.9/5

# yield\_bpm0l06X\_rms vs slug



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

Left Out: 0.010+/-0.000  $\chi^2$ /NDF:2040.5/4

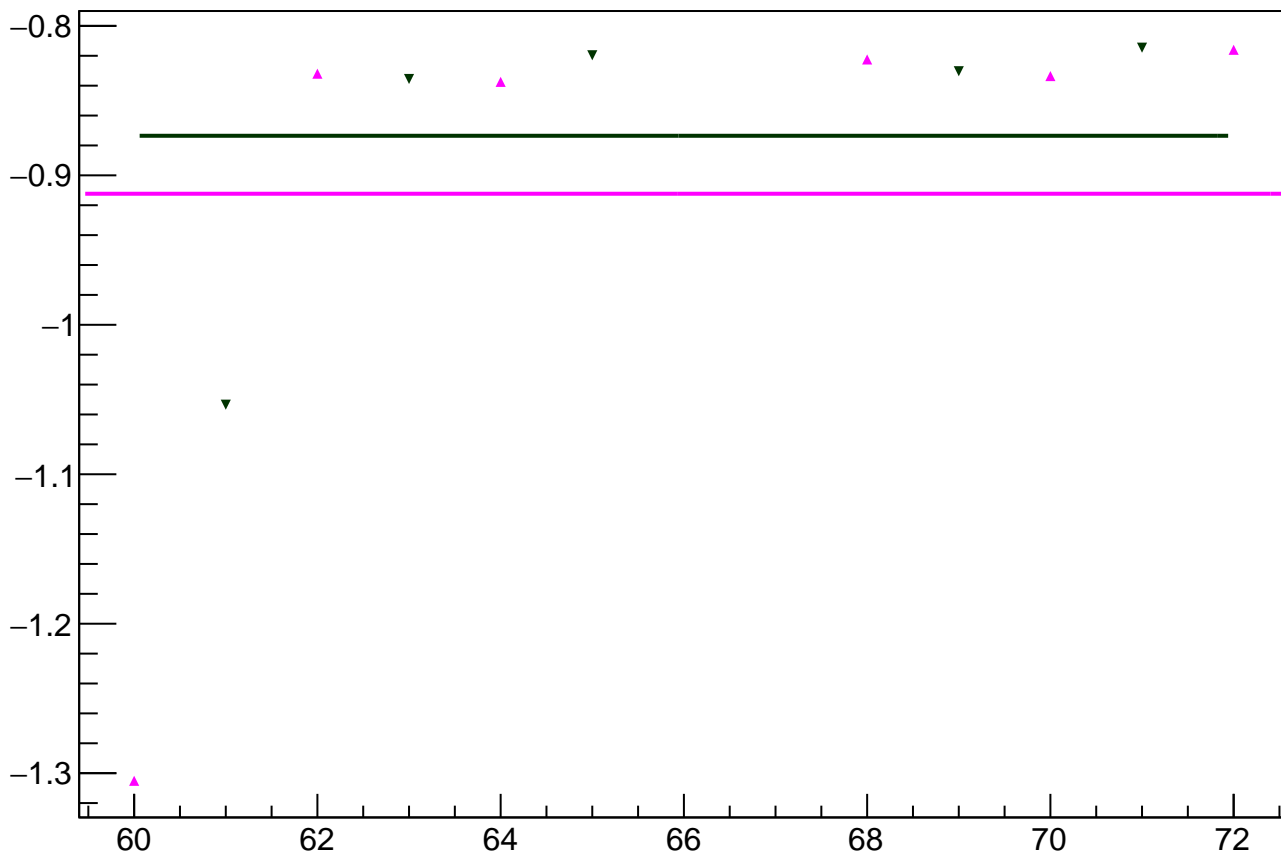
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.010+/-0.000  $\chi^2$ /NDF:2966.1/5

0.010+/-0.000  $\chi^2$ /NDF: 2040.5/4

0.010+/-0.000  $\chi^2$ /NDF: 2966.1/5

# yield\_bpm0l06Y\_mean vs slug



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

Left Out: -0.874+/-0.000  $\chi^2$ /NDF:1074160914.9/4

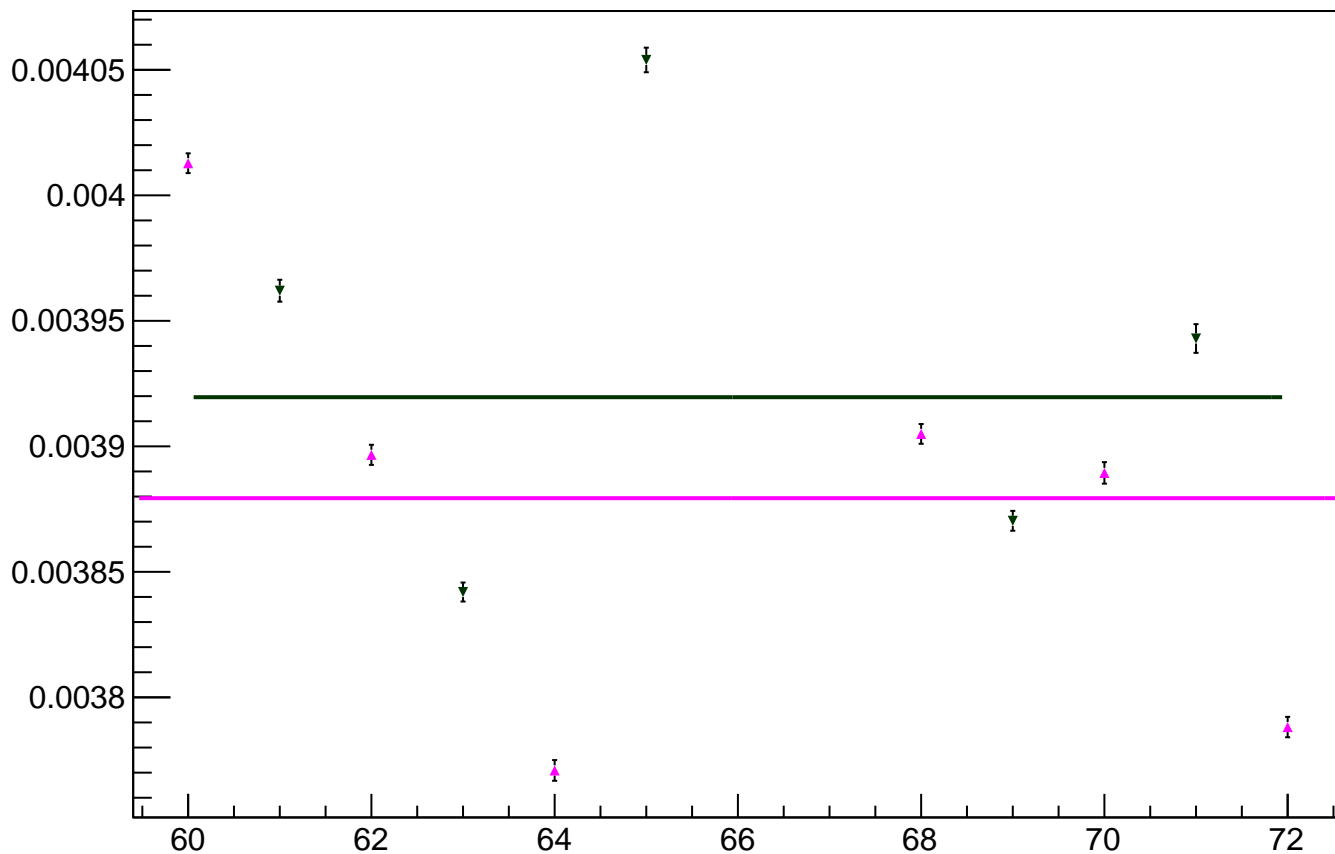
-0.874+/-0.000  $\chi^2$ /NDF: 1074160914.9/4

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

-0.912+/-0.000  $\chi^2$ /NDF: 6046221312.1/5

Left In: -0.912+/-0.000  $\chi^2$ /NDF:6046221312.1/5

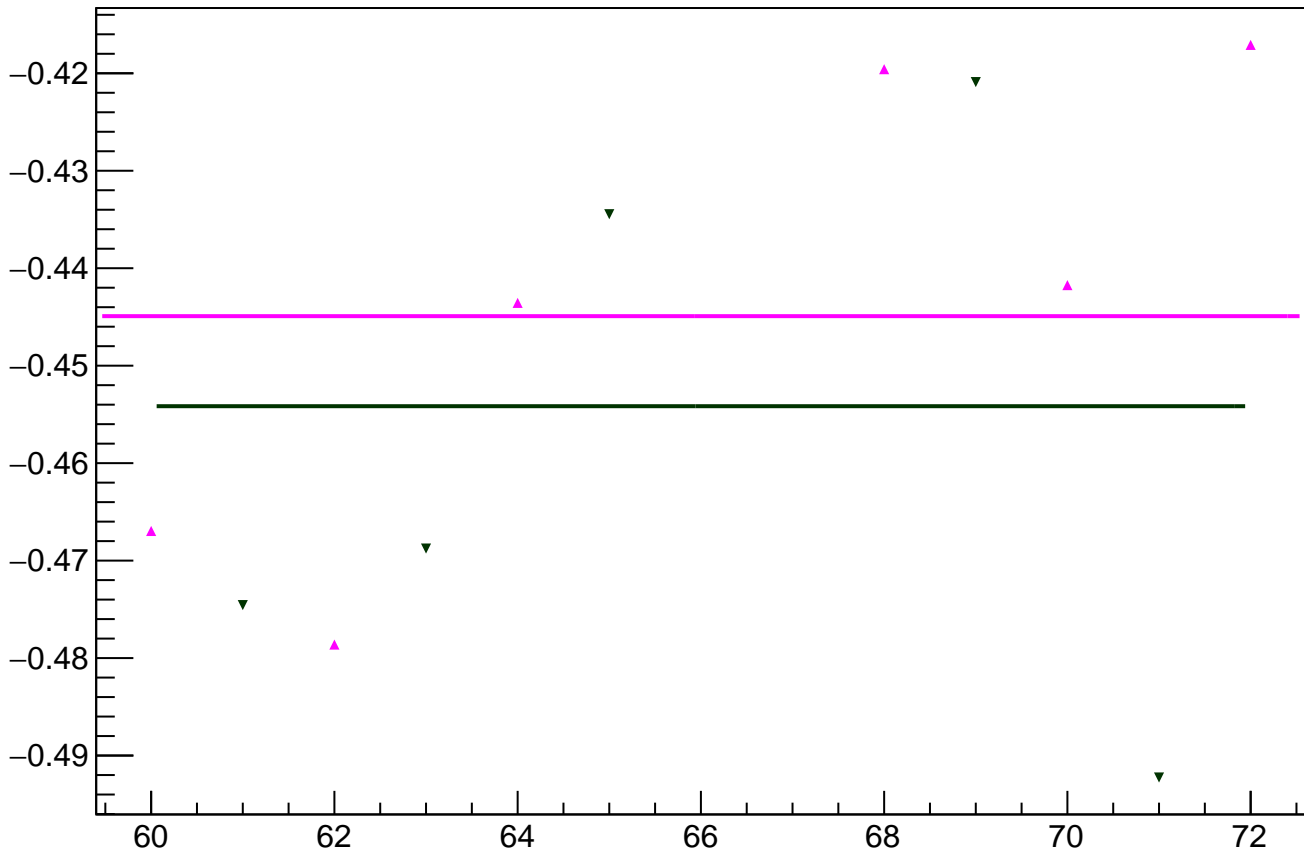
# yield\_bpm0l06Y\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left Out: 0.004+/-0.000  $\chi^2$ /NDF:1439.9/4  
 Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0  
 Left In: 0.004+/-0.000  $\chi^2$ /NDF:2407.1/5

0.004+/-0.000  $\chi^2$ /NDF: 1439.9/4  
 0.004+/-0.000  $\chi^2$ /NDF: 2407.1/5

# yield\_bpm0l07X\_mean vs slug



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

Left Out: -0.454+/-0.000  $\chi^2$ /NDF: 6188972.7/4

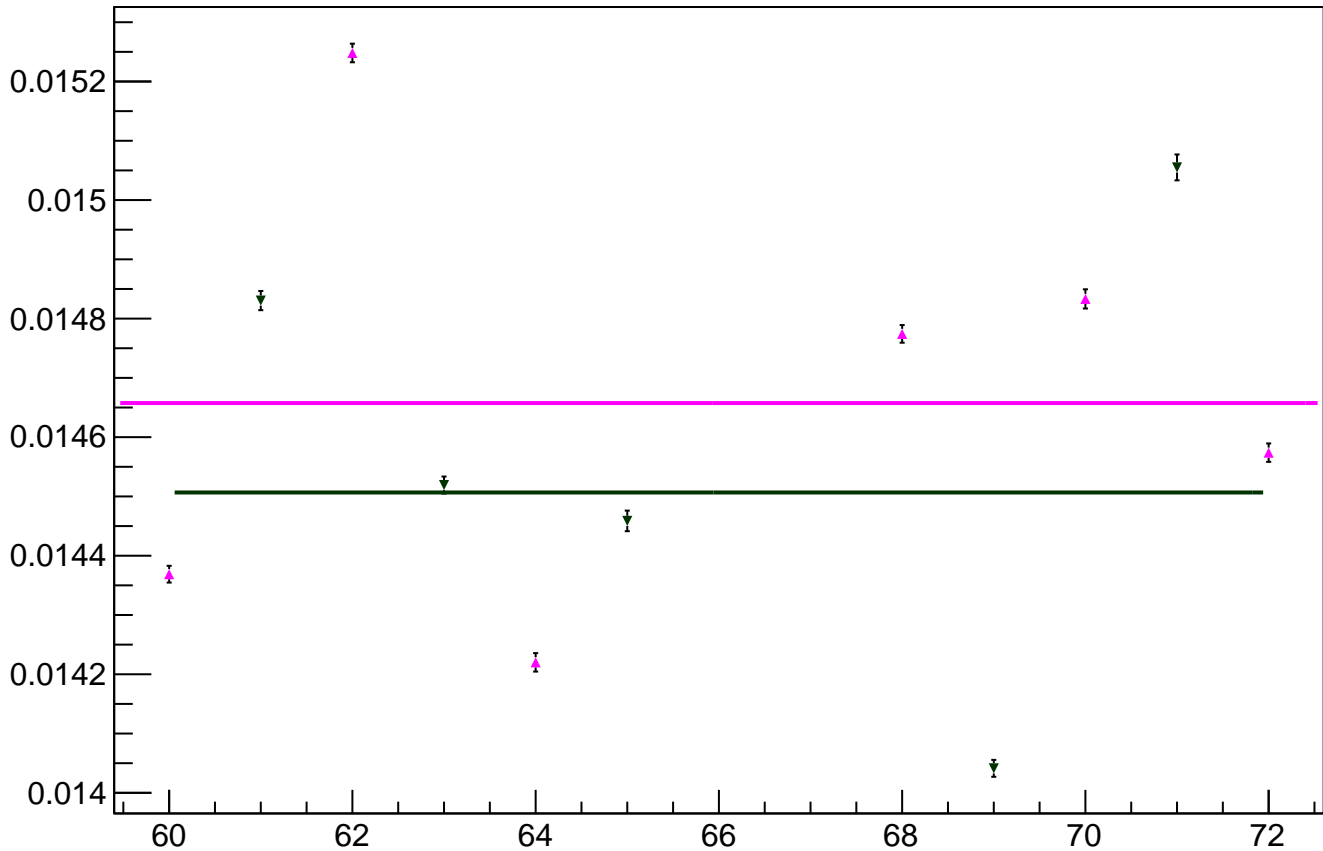
-0.454+/-0.000  $\chi^2$ /NDF: 6188972.7/4

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

-0.445+/-0.000  $\chi^2$ /NDF: 6598137.3/5

Left In: -0.445+/-0.000  $\chi^2$ /NDF: 6598137.3/5

# yield\_bpm0l07X\_rms vs slug



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

Left Out: 0.015+/-0.000  $\chi^2$ /NDF:2101.1/4

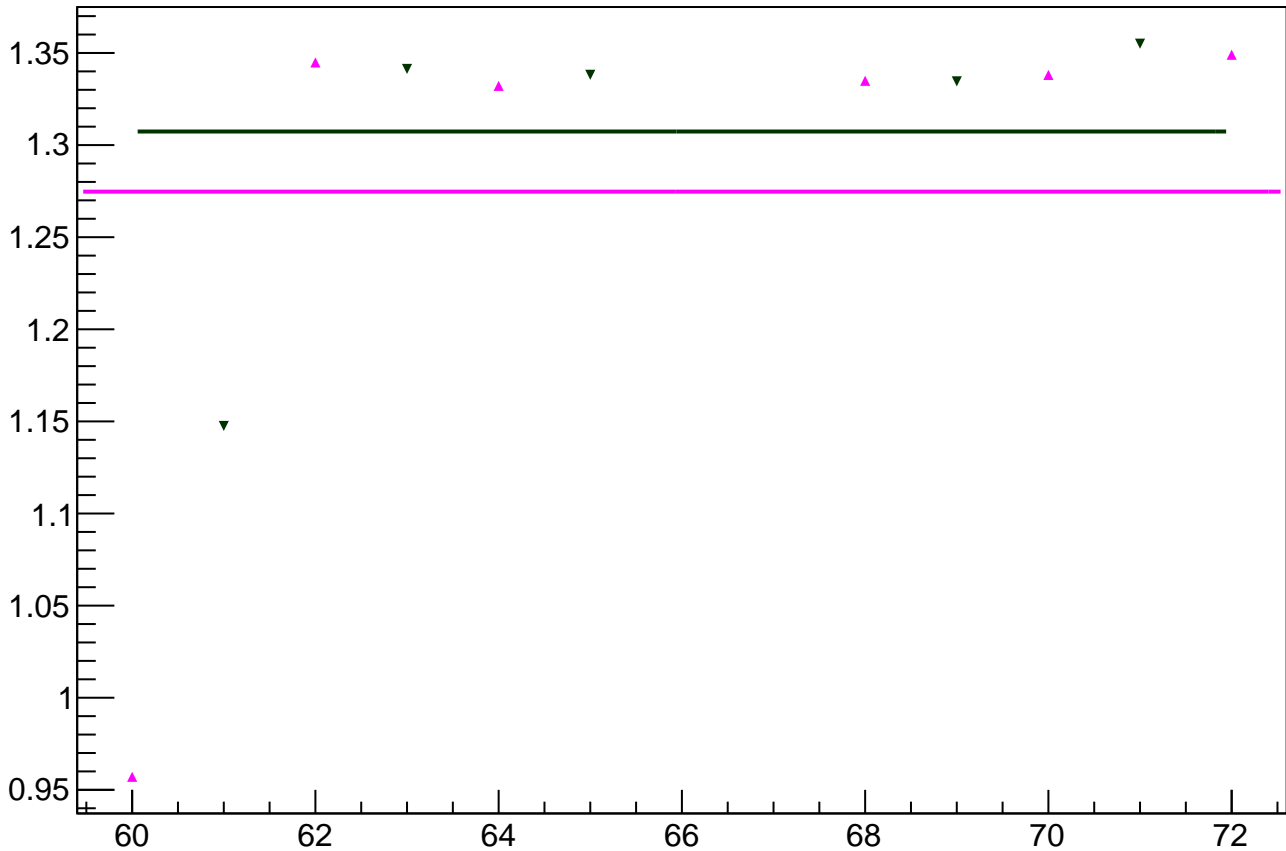
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.015+/-0.000  $\chi^2$ /NDF:2833.5/5

0.015+/-0.000  $\chi^2$ /NDF: 2101.1/4

0.015+/-0.000  $\chi^2$ /NDF: 2833.5/5

# yield\_bpm0l07Y\_mean vs slug



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

Left Out: 1.307+/-0.000  $\chi^2/\text{NDF}$ :1466781247.4/4

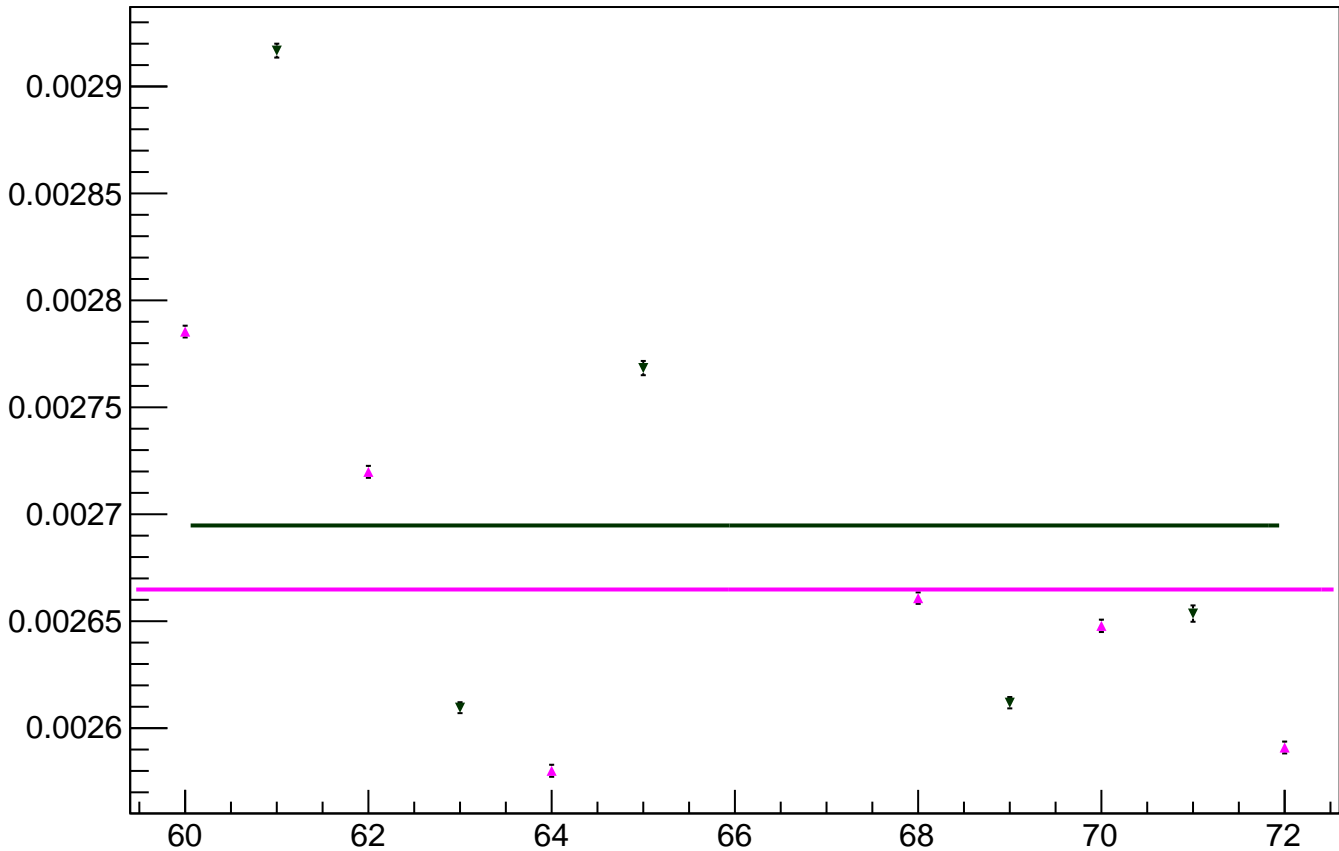
1.307+/-0.000  $\chi^2/\text{NDF}$ : 1466781247.4/4

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

1.275+/-0.000  $\chi^2/\text{NDF}$ : 8010599047.1/5

Left In: 1.275+/-0.000  $\chi^2/\text{NDF}$ :8010599047.1/5

# yield\_bpm0l07Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2$ /NDF:7337.0/4

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

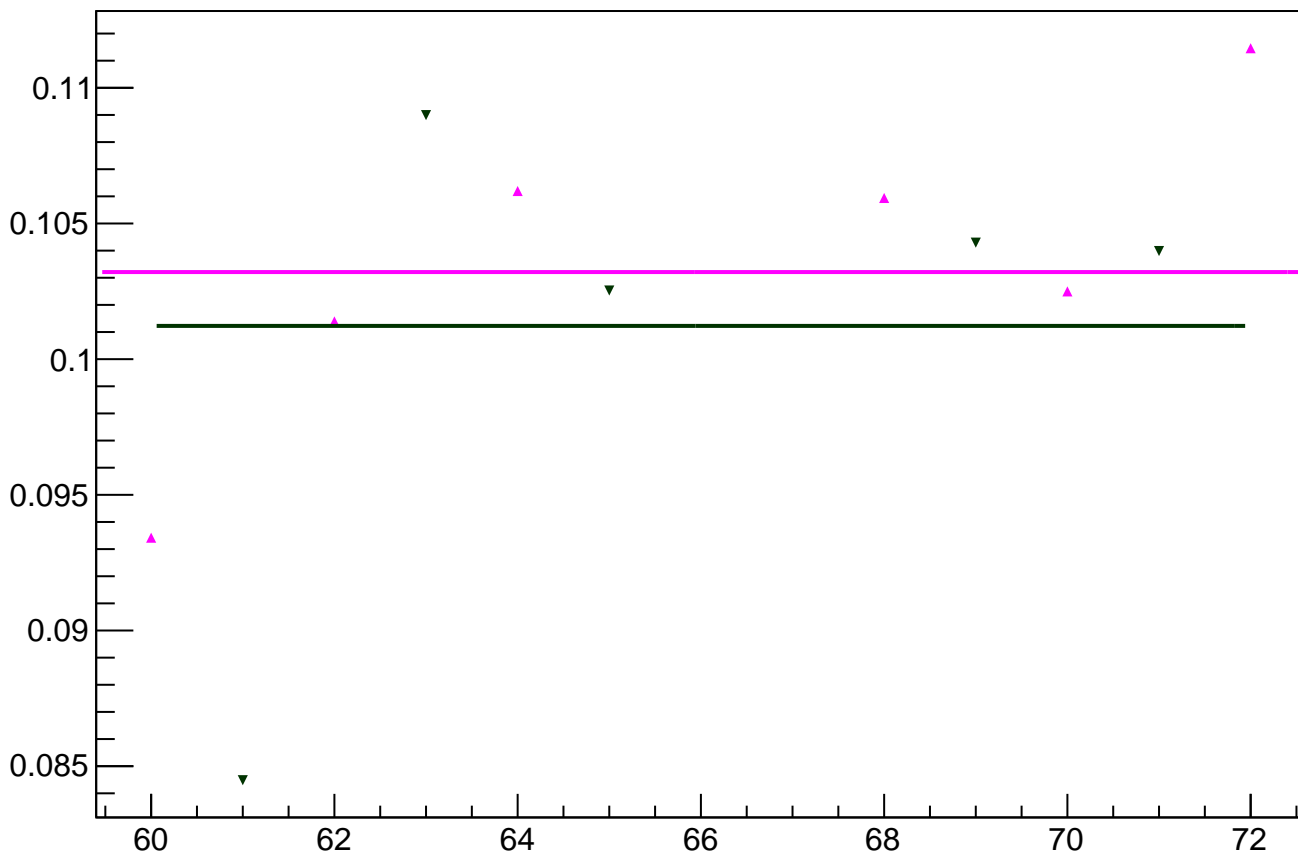
Left In: 0.003+/-0.000  $\chi^2$ /NDF:3950.3/5

0.003+/-0.000  $\chi^2$ /NDF: 7337.0/4

0.003+/-0.000  $\chi^2$ /NDF: 3950.3/5



# yield\_bpm0l08X\_mean vs slug



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

Left Out: 0.101+/-0.000  $\chi^2$ /NDF:800647.3/4

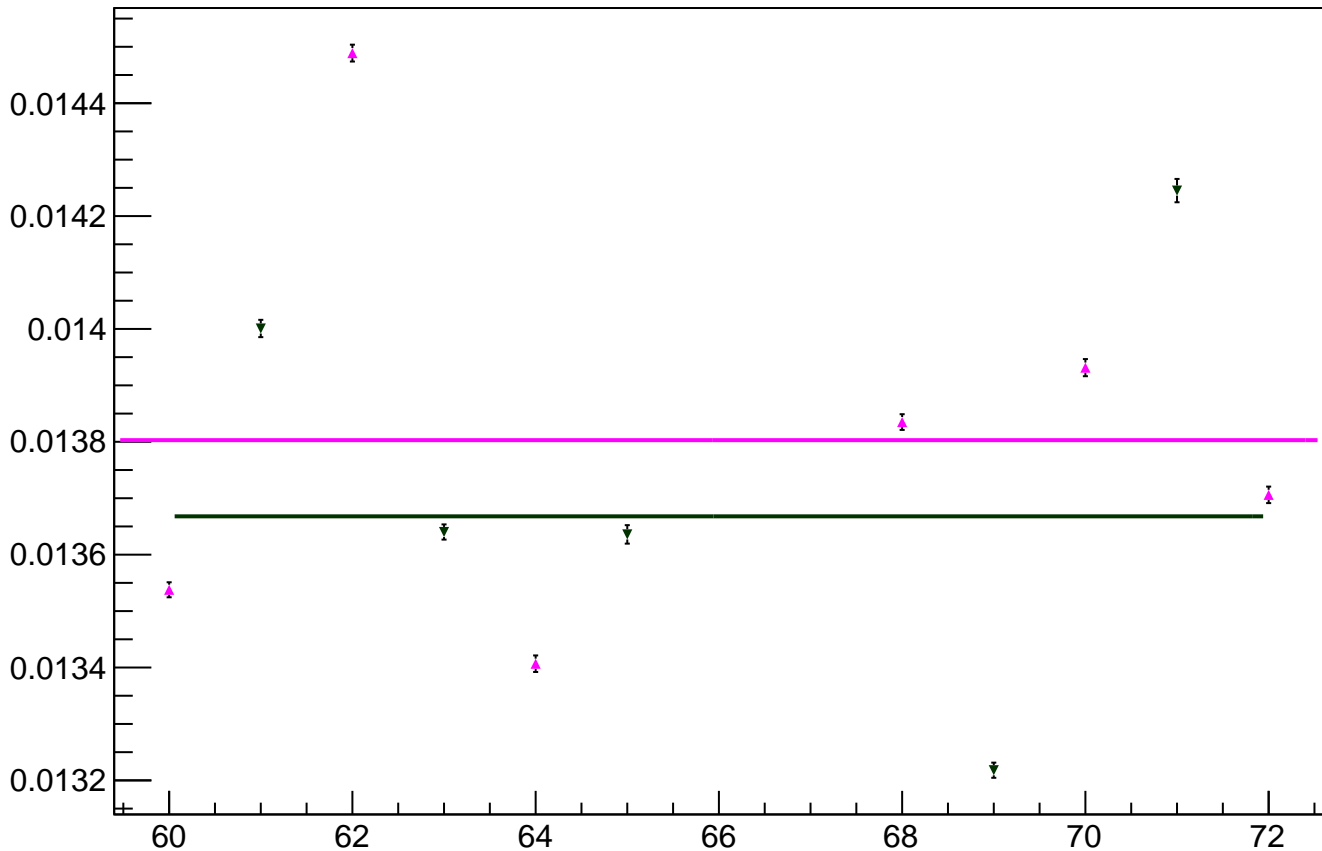
0.101+/-0.000  $\chi^2$ /NDF: 800647.3/4

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

0.103+/-0.000  $\chi^2$ /NDF: 478144.2/5

Left In: 0.103+/-0.000  $\chi^2$ /NDF:478144.2/5

# yield\_bpm0l08X\_rms vs slug



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

Left Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ :2380.3/4

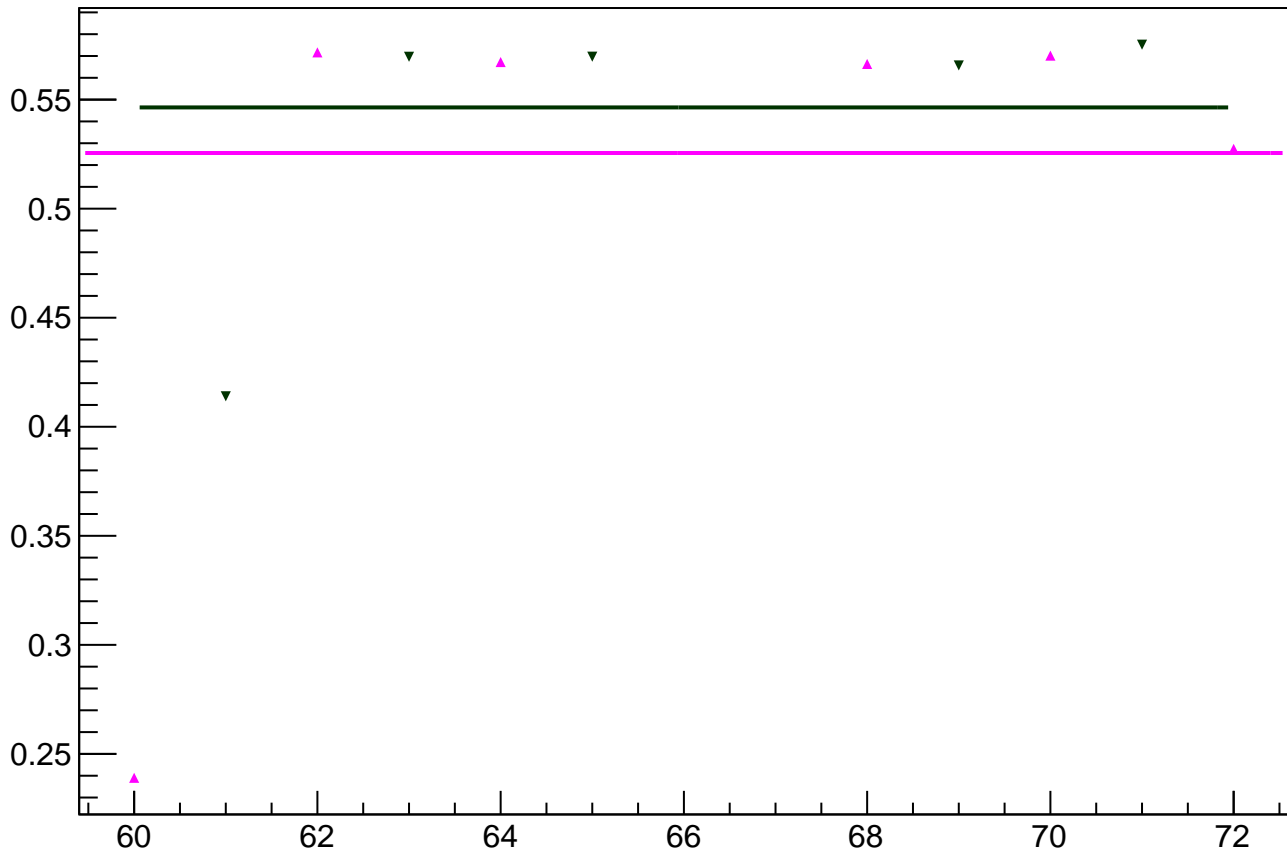
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.014+/-0.000  $\chi^2/\text{NDF}$ :3355.7/5

0.014+/-0.000  $\chi^2/\text{NDF}$ : 2380.3/4

0.014+/-0.000  $\chi^2/\text{NDF}$ : 3355.7/5

# yield\_bpm0l08Y\_mean vs slug



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

Left Out: 0.546+/-0.000  $\chi^2$ /NDF:754149072.1/4

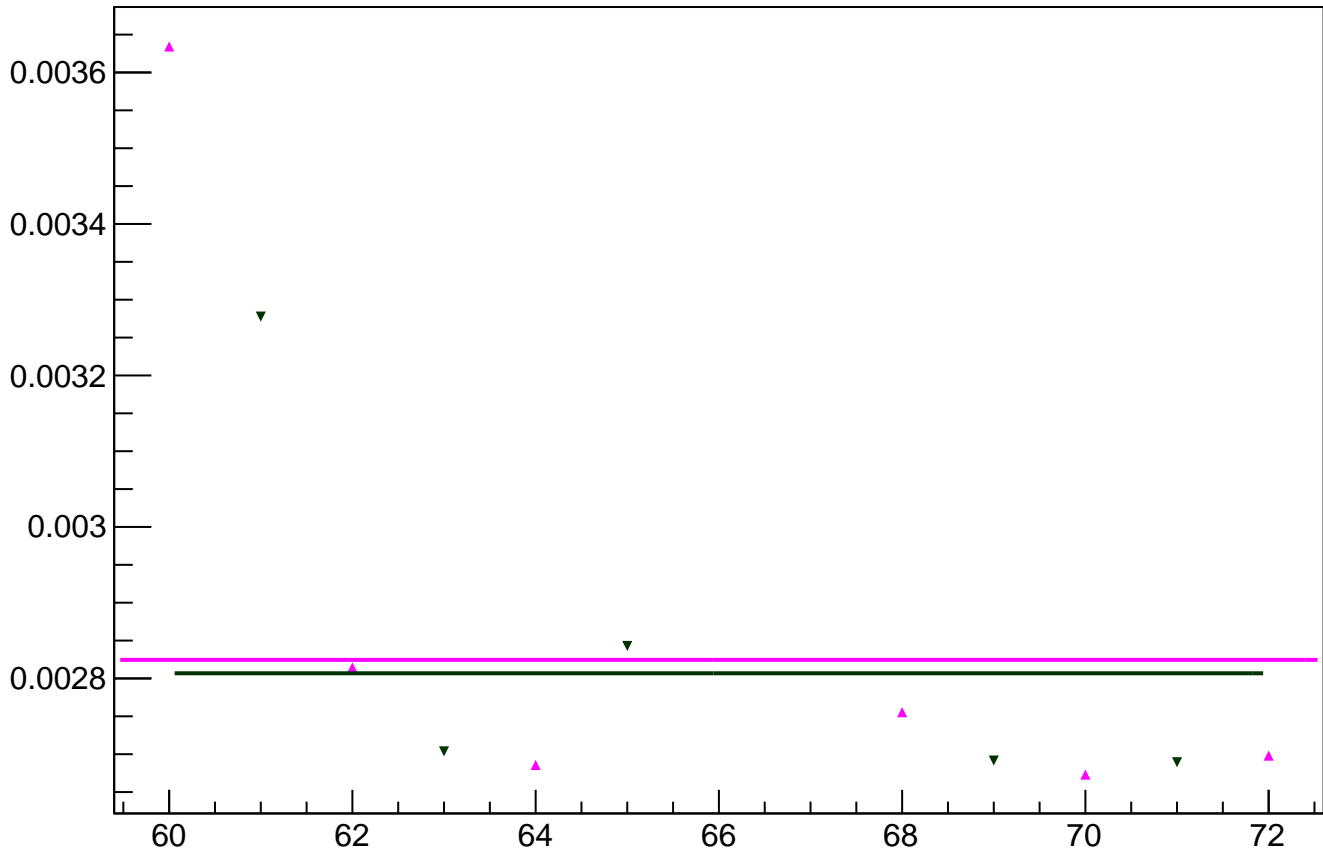
0.546+/-0.000  $\chi^2$ /NDF: 754149072.1/4

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

Left In: 0.526+/-0.000  $\chi^2$ /NDF:3429303862.6/5

0.526+/-0.000  $\chi^2$ /NDF: 3429303862.6/5

# yield\_bpm0l08Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ :20490.7/4

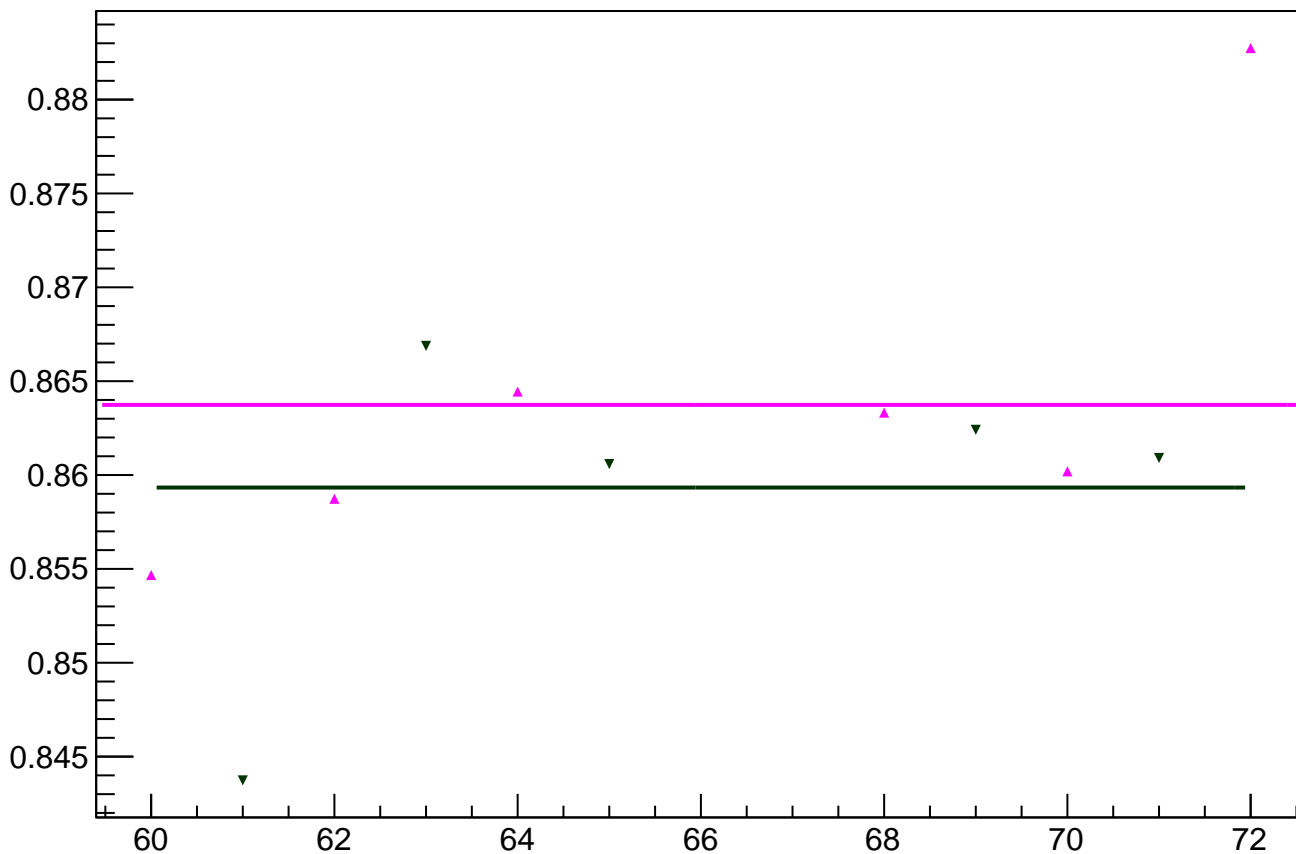
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.003+/-0.000  $\chi^2/\text{NDF}$ :55106.7/5

0.003+/-0.000  $\chi^2/\text{NDF}$ : 20490.7/4

0.003+/-0.000  $\chi^2/\text{NDF}$ : 55106.7/5

# yield\_bpm0l09X\_mean vs slug



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

Left Out: 0.859+/-0.000  $\chi^2$ /NDF:718462.7/4

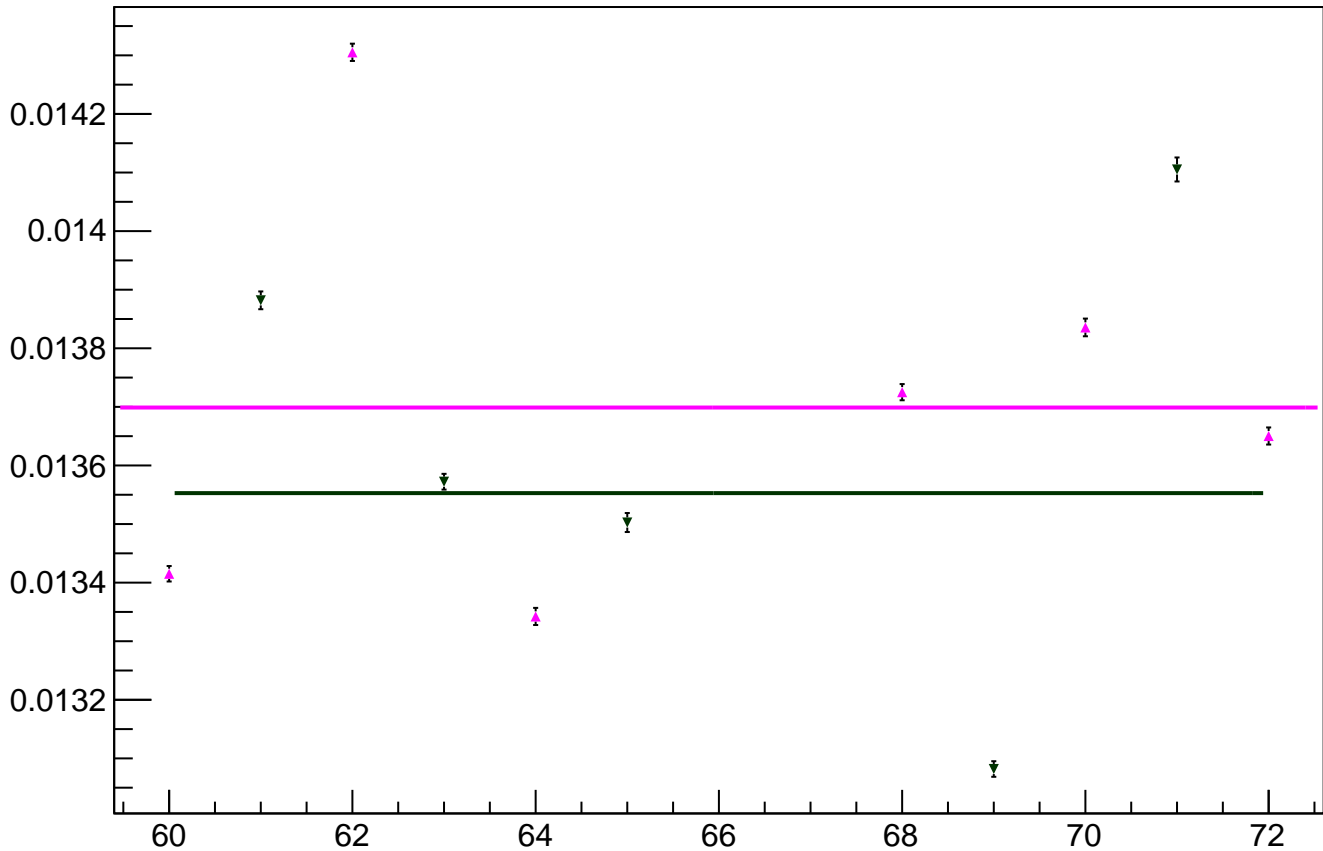
0.859+/-0.000  $\chi^2$ /NDF: 718462.7/4

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

0.864+/-0.000  $\chi^2$ /NDF: 1170016.4/5

Left In: 0.864+/-0.000  $\chi^2$ /NDF:1170016.4/5

# yield\_bpm0l09X\_rms vs slug



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

Left Out: 0.014+/-0.000  $\chi^2$ /NDF:2462.9/4

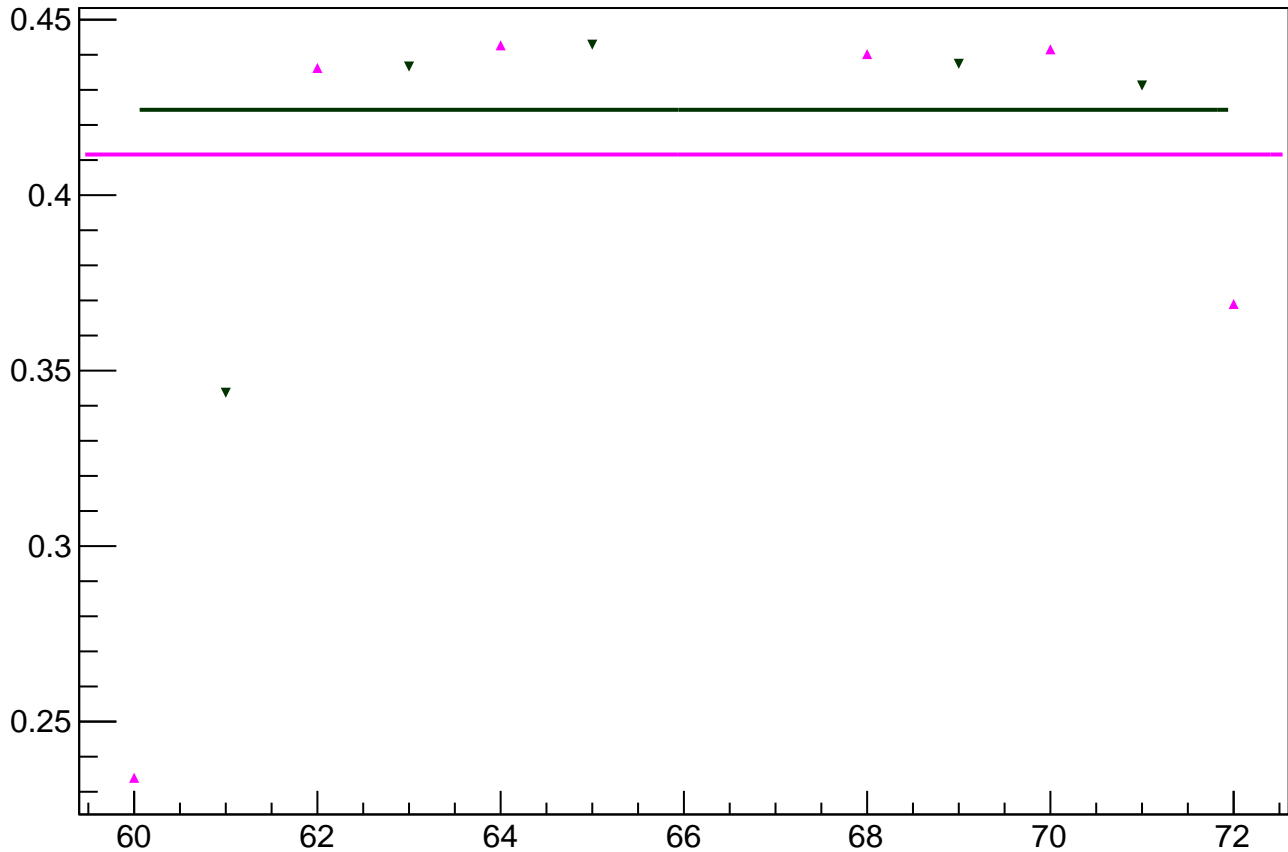
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.014+/-0.000  $\chi^2$ /NDF:2841.8/5

0.014+/-0.000  $\chi^2$ /NDF: 2462.9/4

0.014+/-0.000  $\chi^2$ /NDF: 2841.8/5

# yield\_bpm0l09Y\_mean vs slug



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

Left Out: 0.424+/-0.000  $\chi^2$ /NDF:232249432.8/4

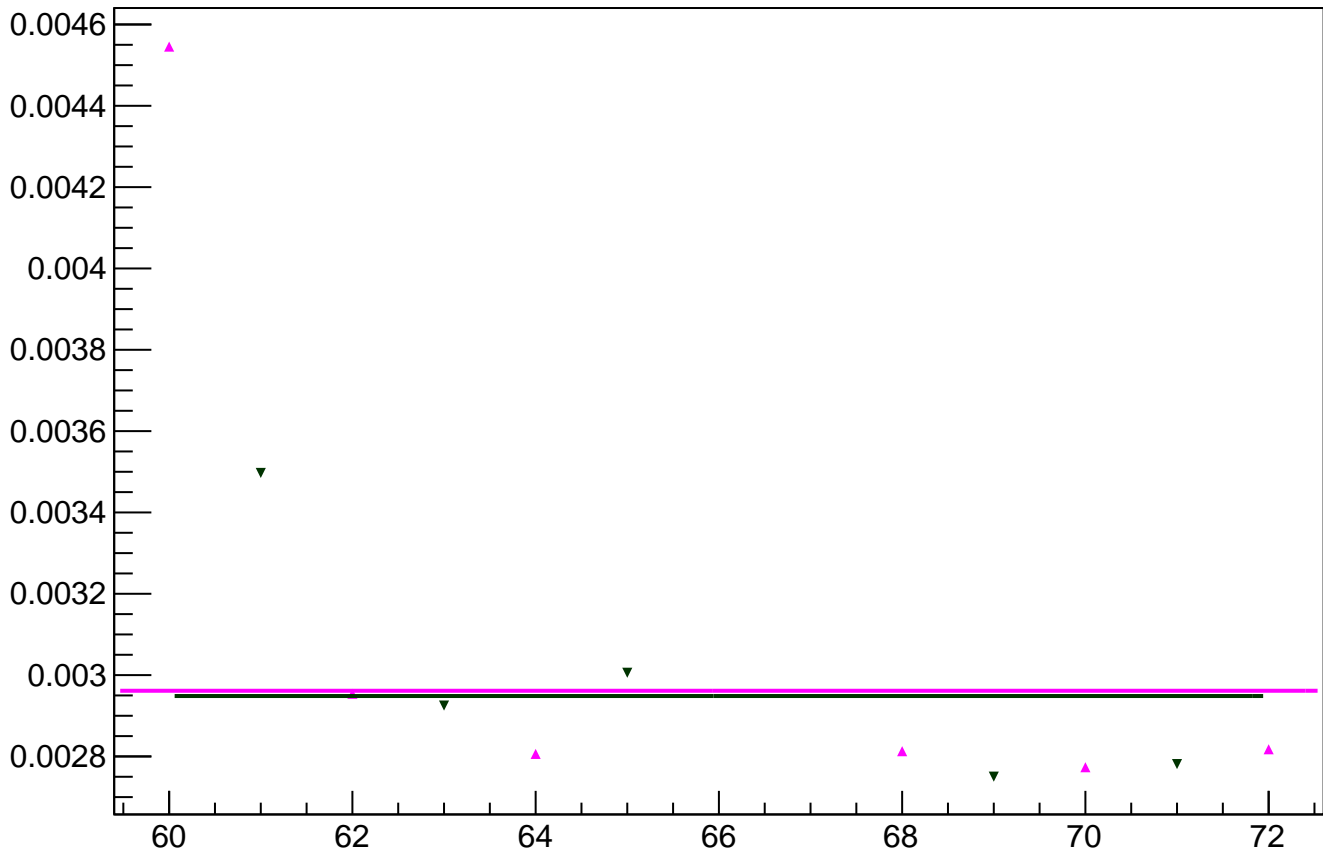
0.424+/-0.000  $\chi^2$ /NDF: 232249432.8/4

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

0.412+/-0.000  $\chi^2$ /NDF: 979607489.7/5

Left In: 0.412+/-0.000  $\chi^2$ /NDF:979607489.7/5

# yield\_bpm0l09Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2$ /NDF:25281.0/4

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

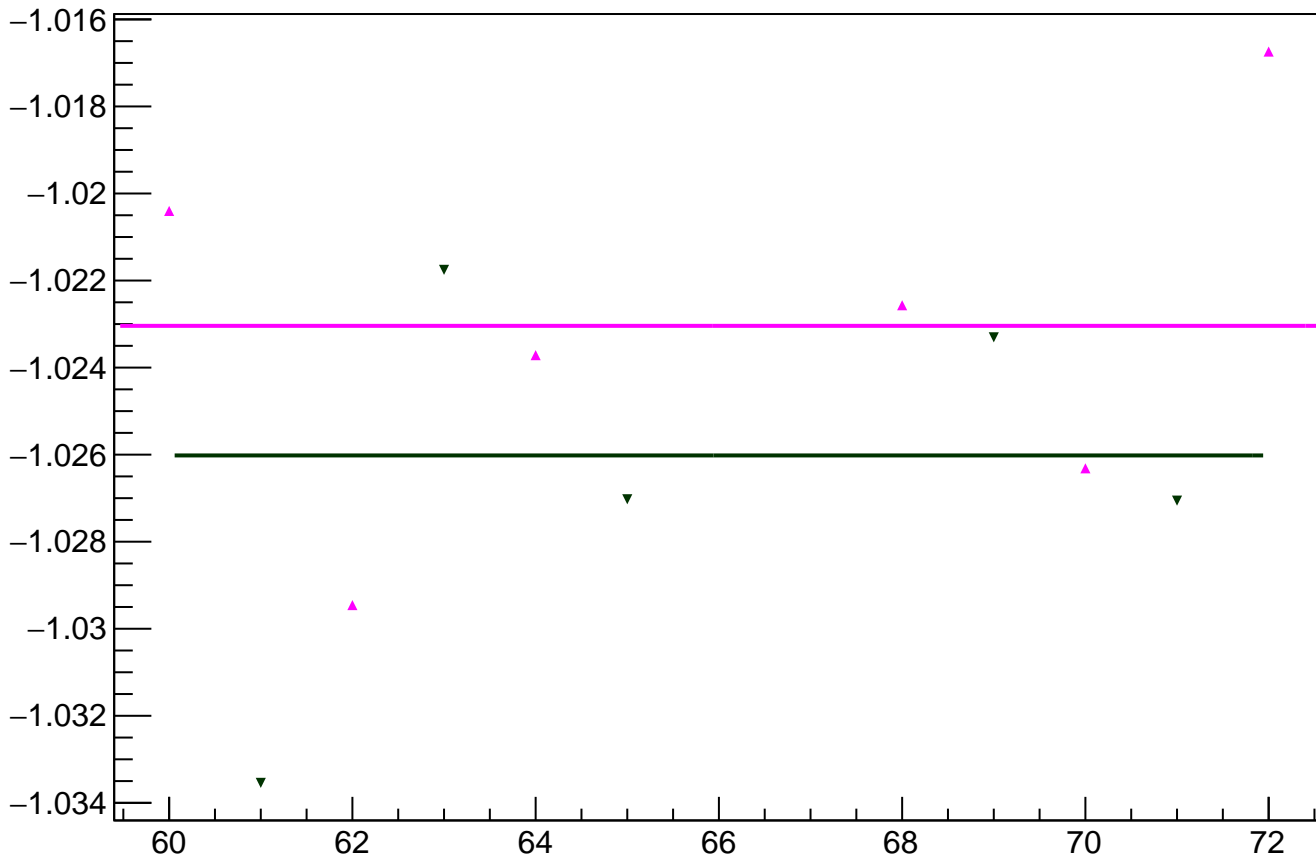
Left In: 0.003+/-0.000  $\chi^2$ /NDF:123103.8/5

0.003+/-0.000  $\chi^2$ /NDF: 25281.0/4

0.003+/-0.000  $\chi^2$ /NDF: 123103.8/5



# yield\_bpm0l10X\_mean vs slug



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

Left Out: -1.026+/-0.000  $\chi^2$ /NDF:199848.0/4

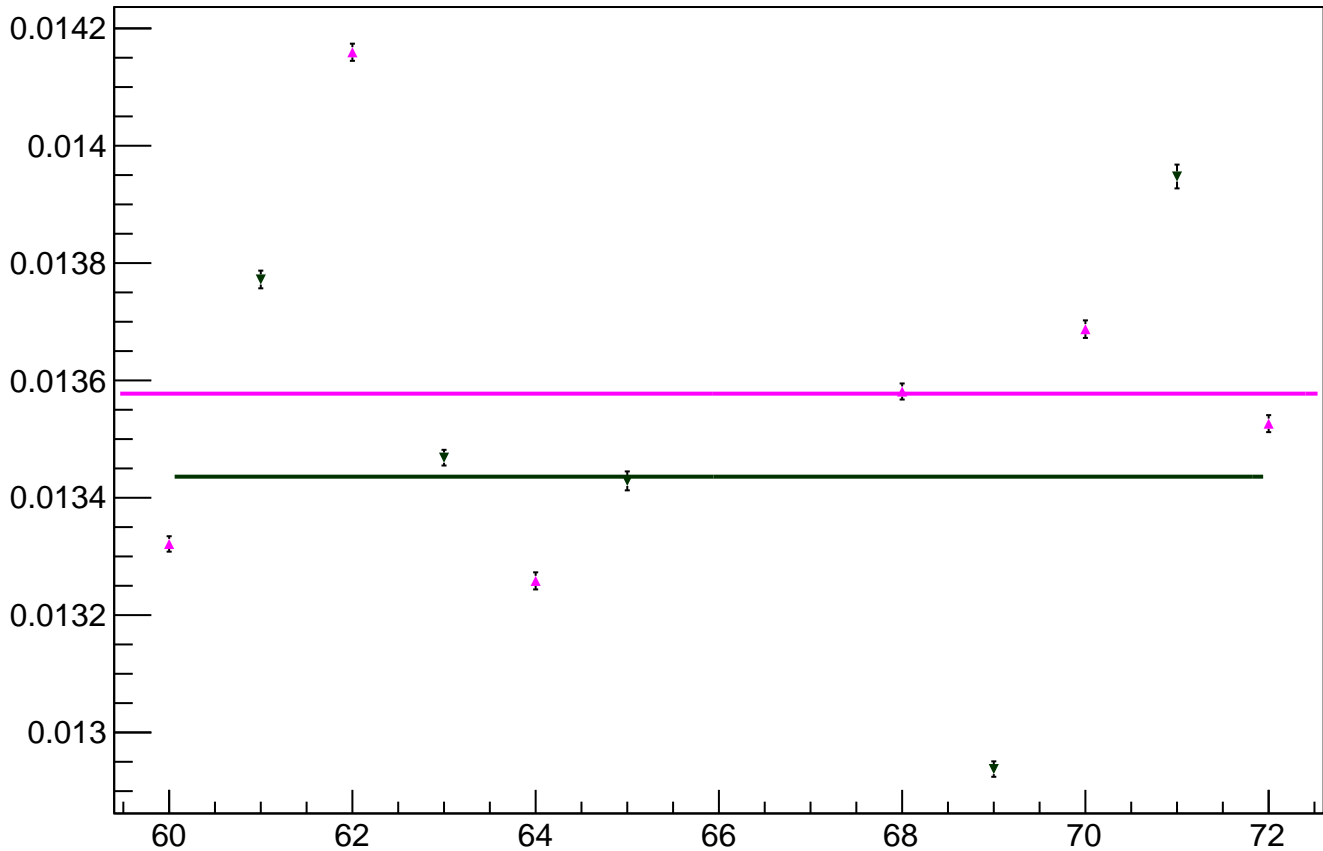
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: -1.023+/-0.000  $\chi^2$ /NDF:236411.0/5

-1.026+/-0.000  $\chi^2$ /NDF: 199848.0/4

-1.023+/-0.000  $\chi^2$ /NDF: 236411.0/5

# yield\_bpm0l10X\_rms vs slug



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

Left Out: 0.013+/-0.000  $\chi^2$ /NDF:2572.9/4

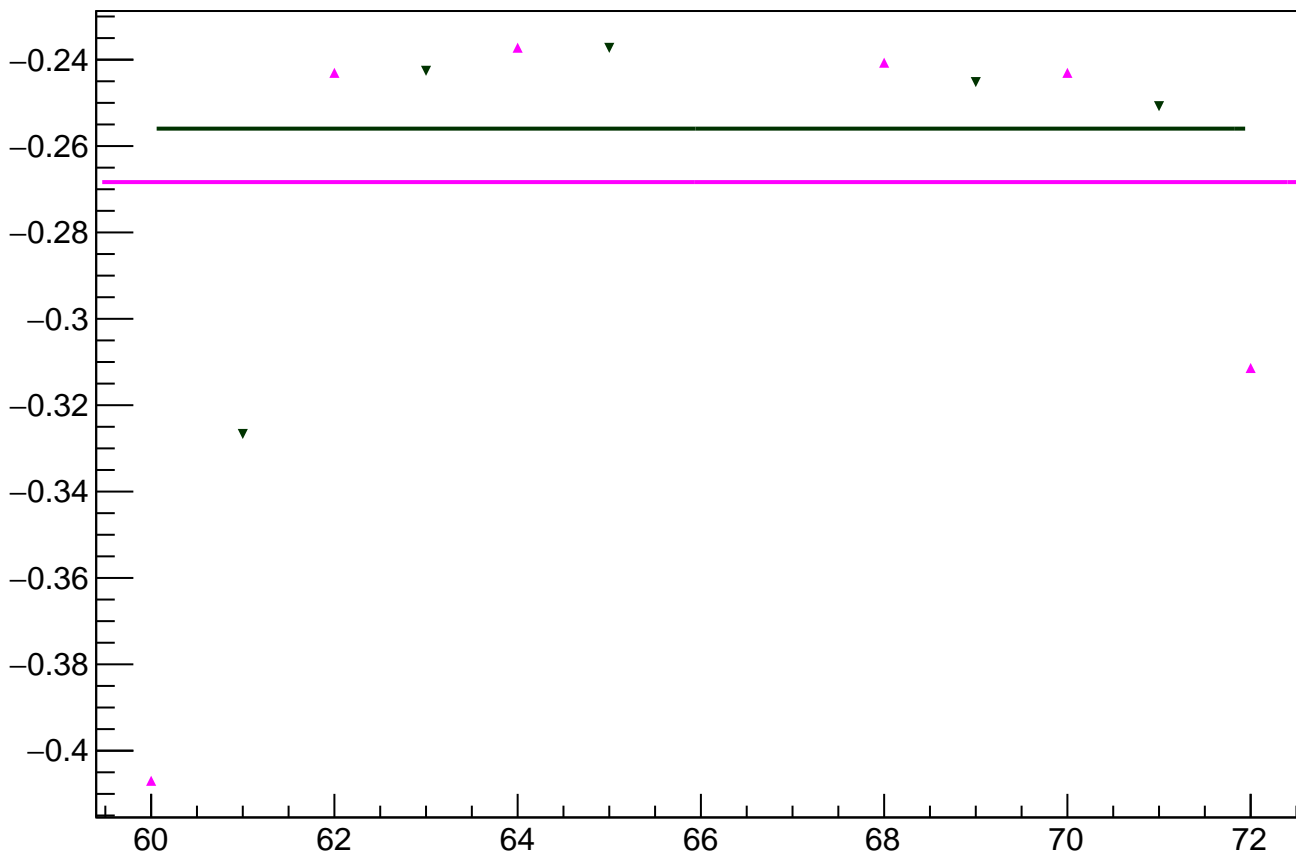
Right Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.014+/-0.000  $\chi^2$ /NDF:2507.1/5

0.013+/-0.000  $\chi^2$ /NDF: 2572.9/4

0.014+/-0.000  $\chi^2$ /NDF: 2507.1/5

# yield\_bpm0l10Y\_mean vs slug



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

Left Out: -0.256+/-0.000  $\chi^2$ /NDF: 190493769.5/4

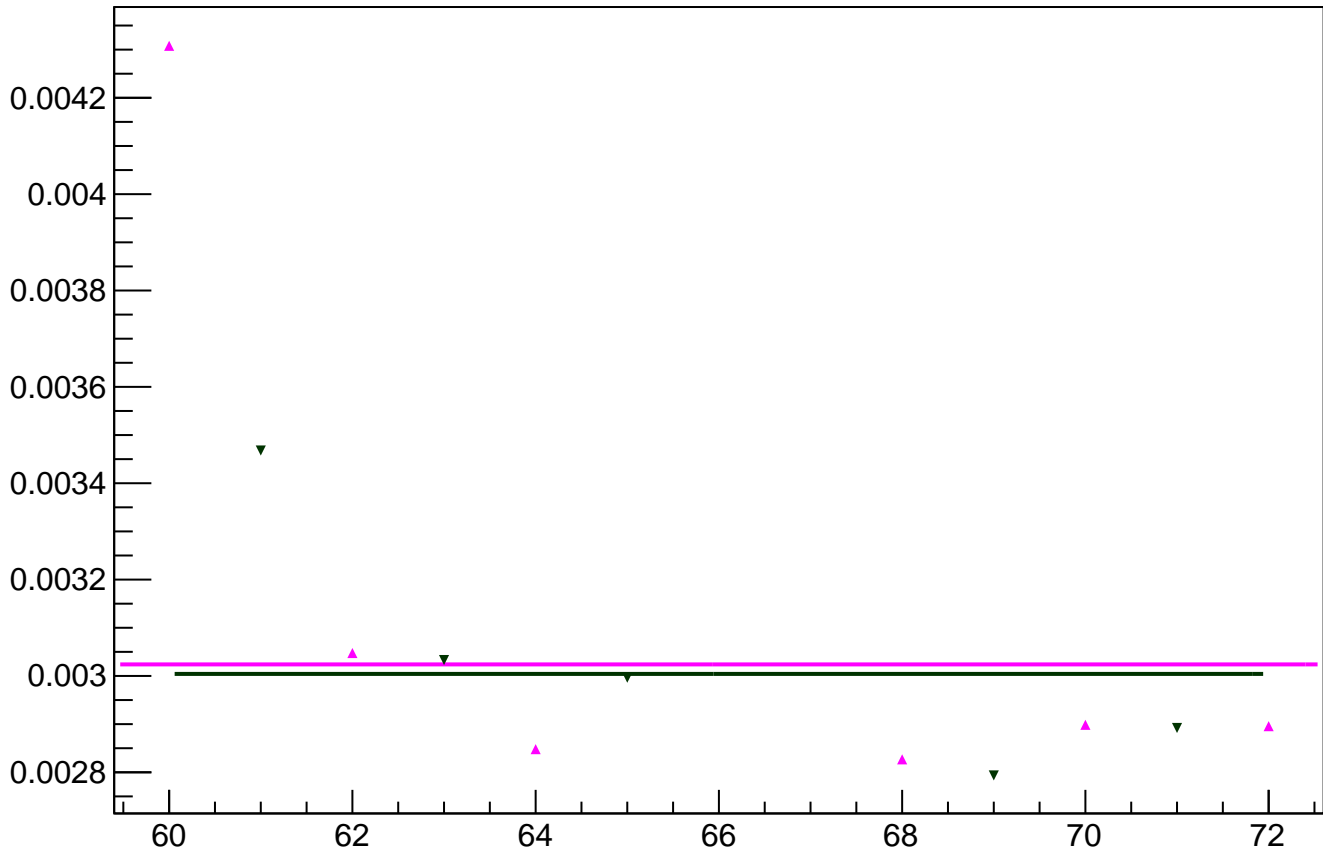
-0.256+/-0.000  $\chi^2$ /NDF: 190493769.5/4

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

Left In: -0.268+/-0.000  $\chi^2$ /NDF: 742694519.6/5

-0.268+/-0.000  $\chi^2$ /NDF: 742694519.6/5

# yield\_bpm0l10Y\_rms vs slug



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

Left Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ :19975.9/4

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

Left In: 0.003+/-0.000  $\chi^2/\text{NDF}$ :95009.8/5

0.003+/-0.000  $\chi^2/\text{NDF}$ : 19975.9/4

0.003+/-0.000  $\chi^2/\text{NDF}$ : 95009.8/5