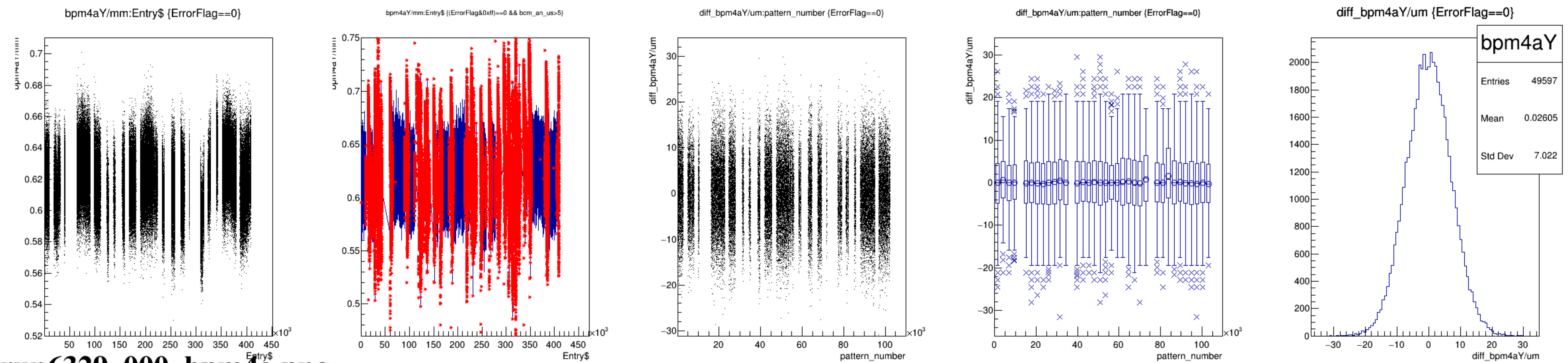
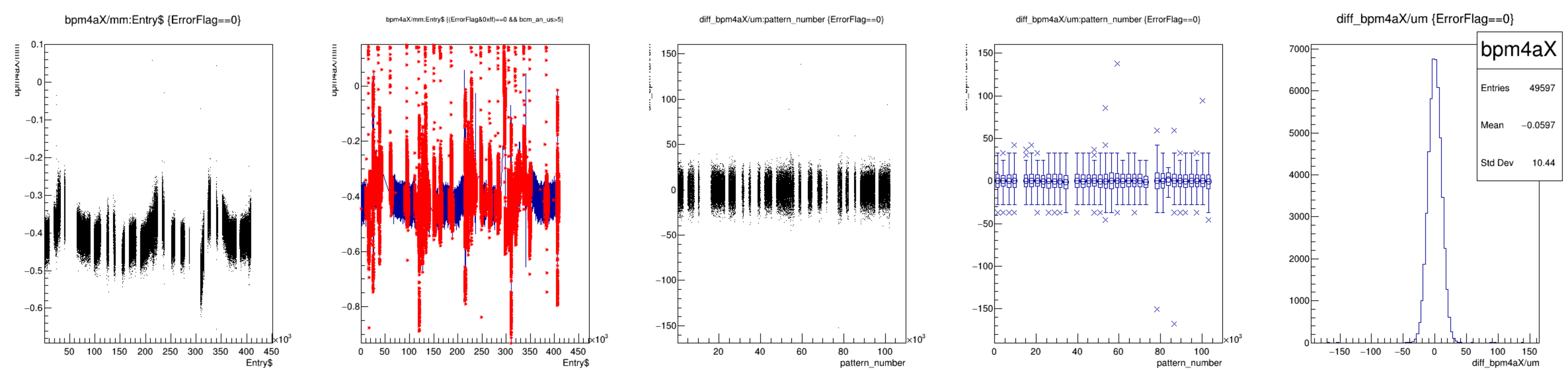
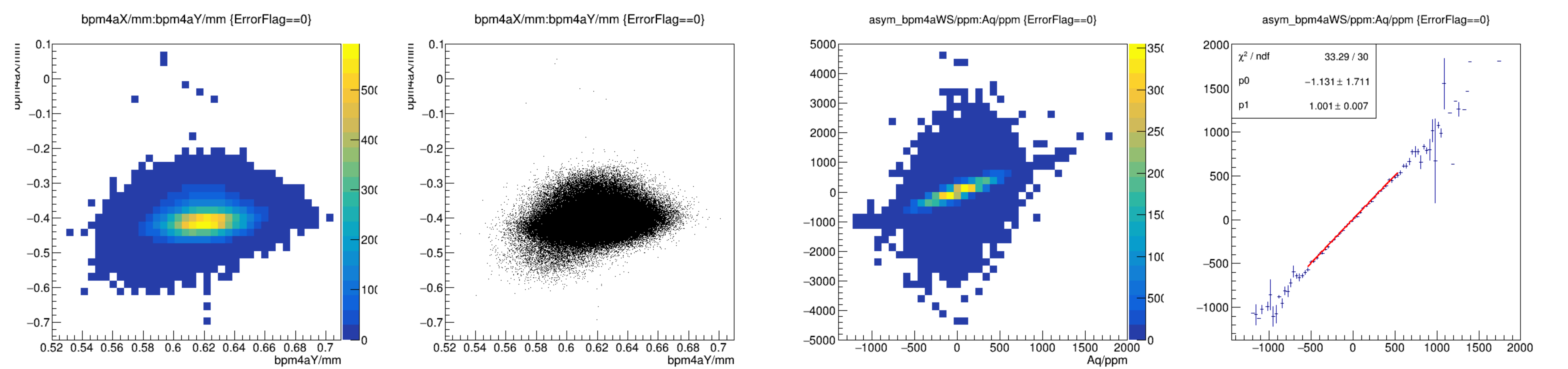
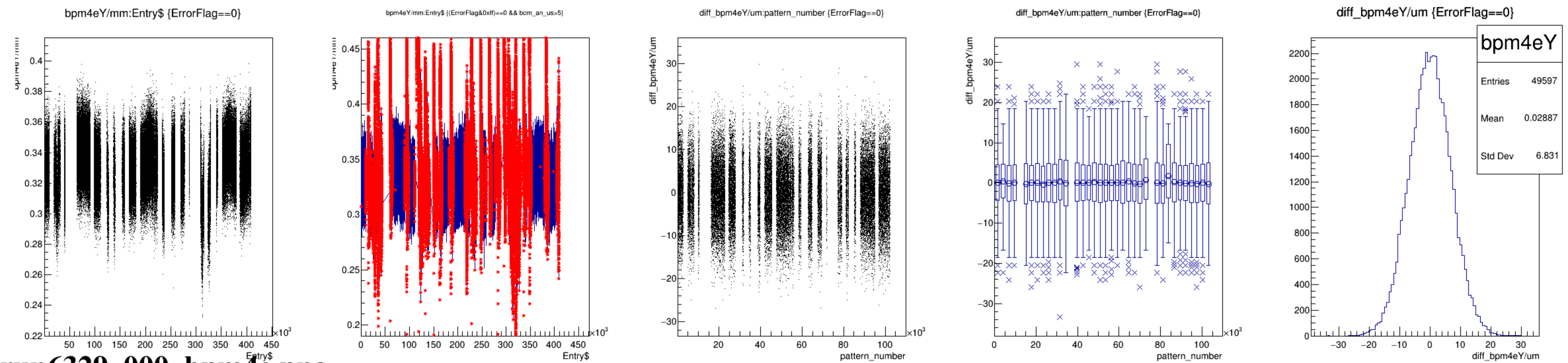
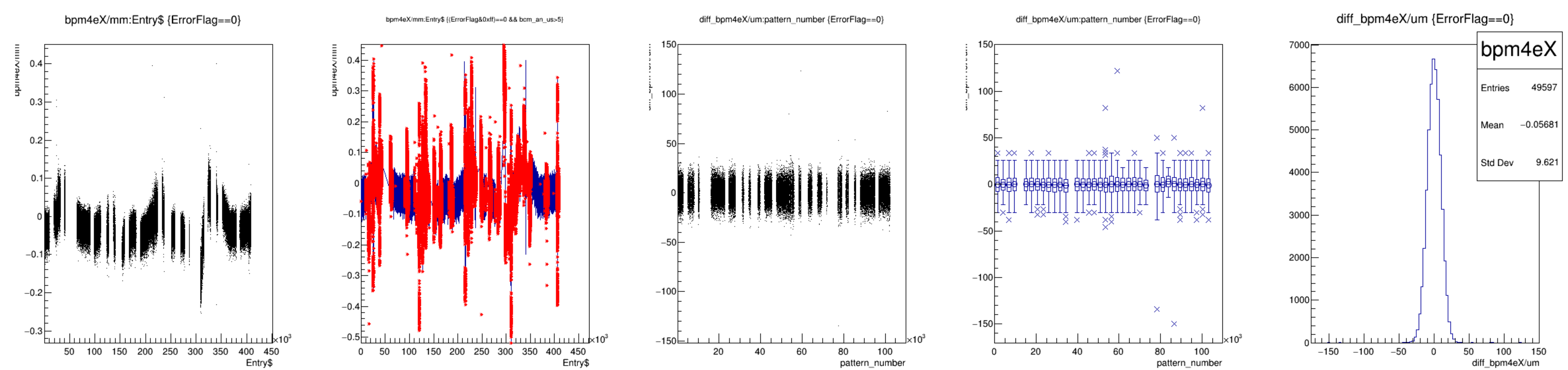
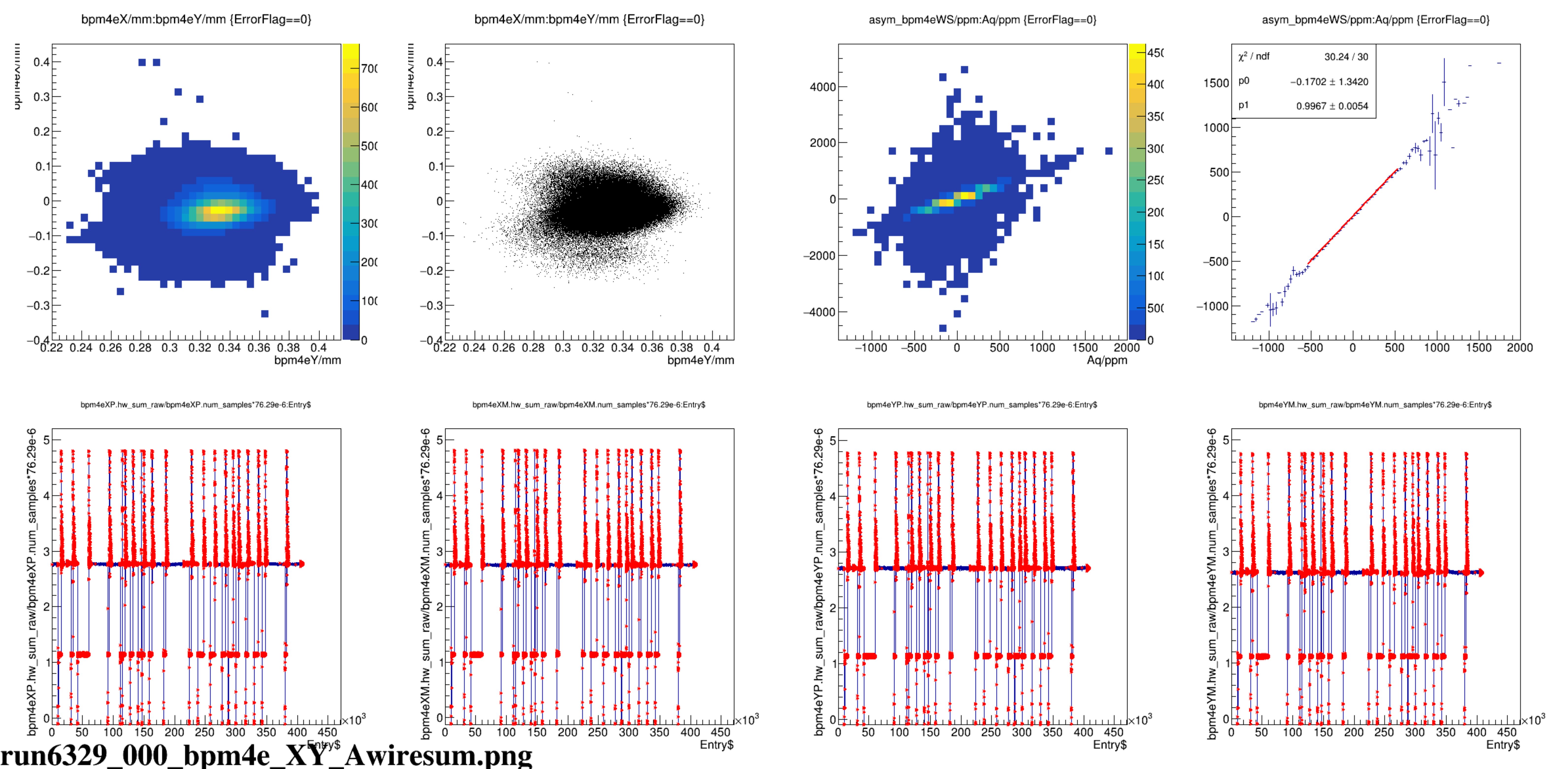
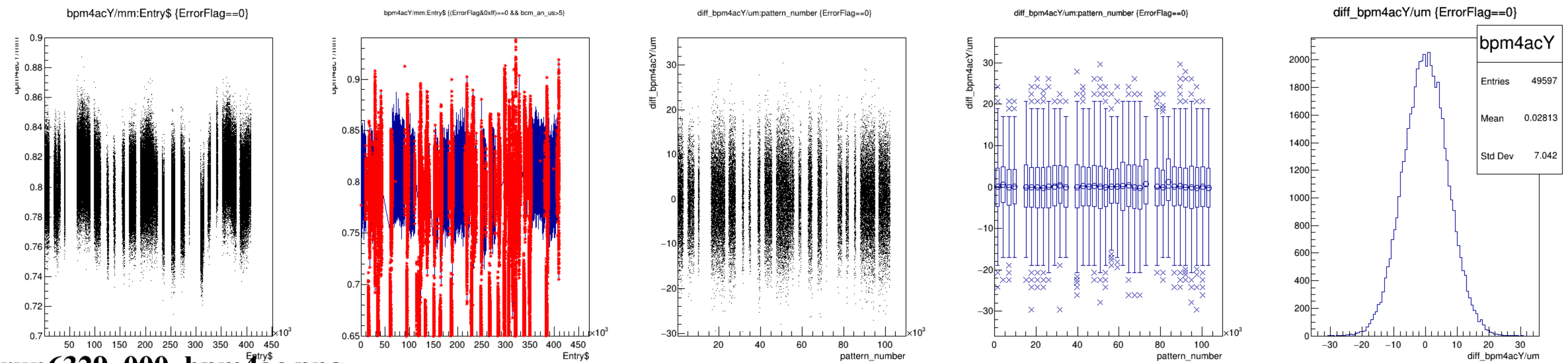
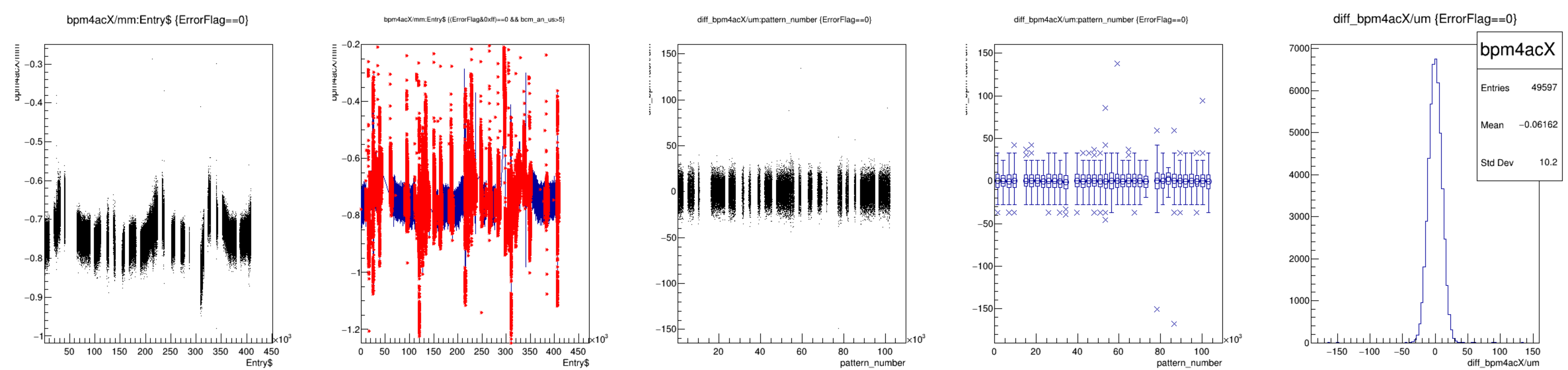


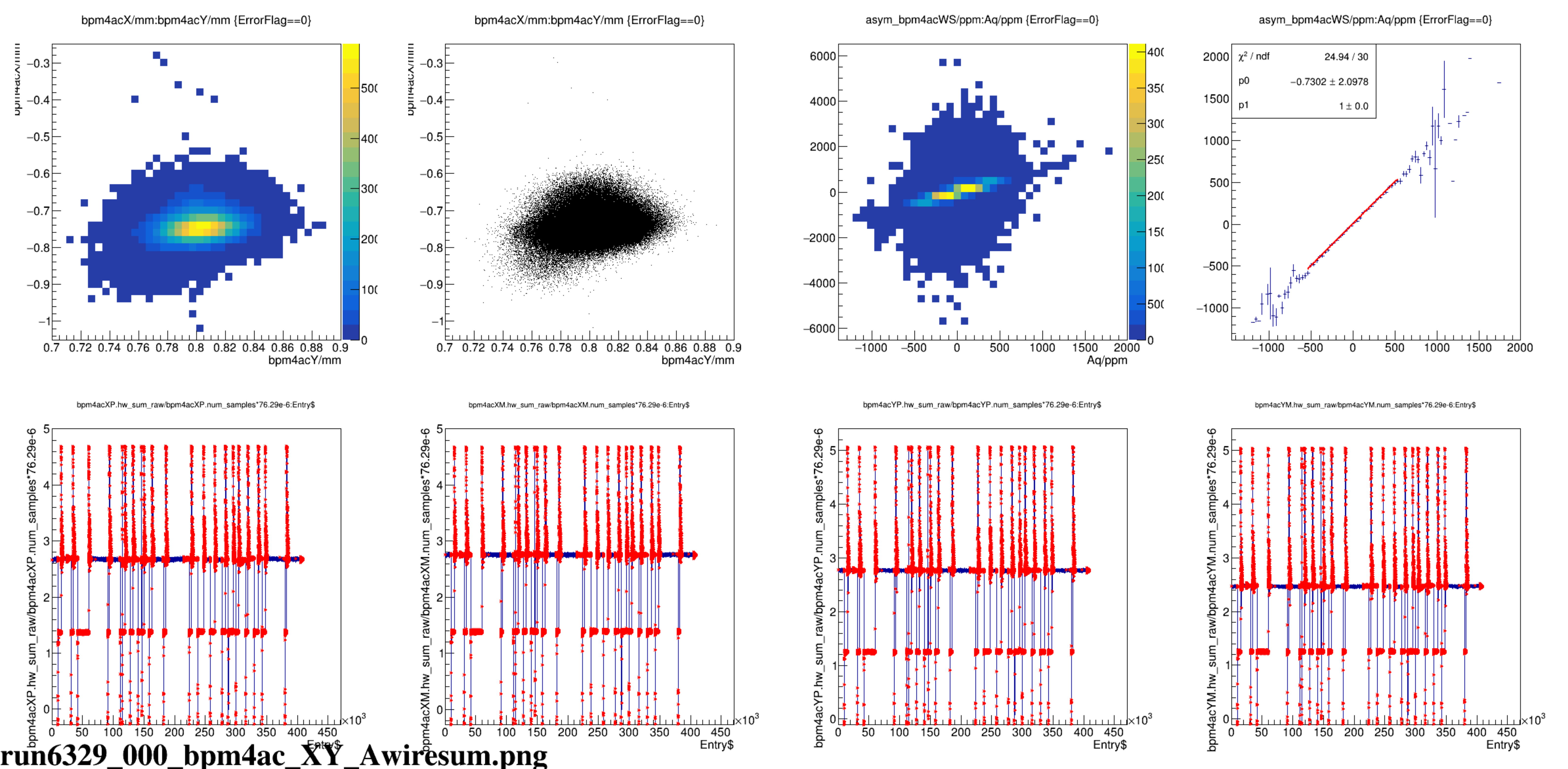


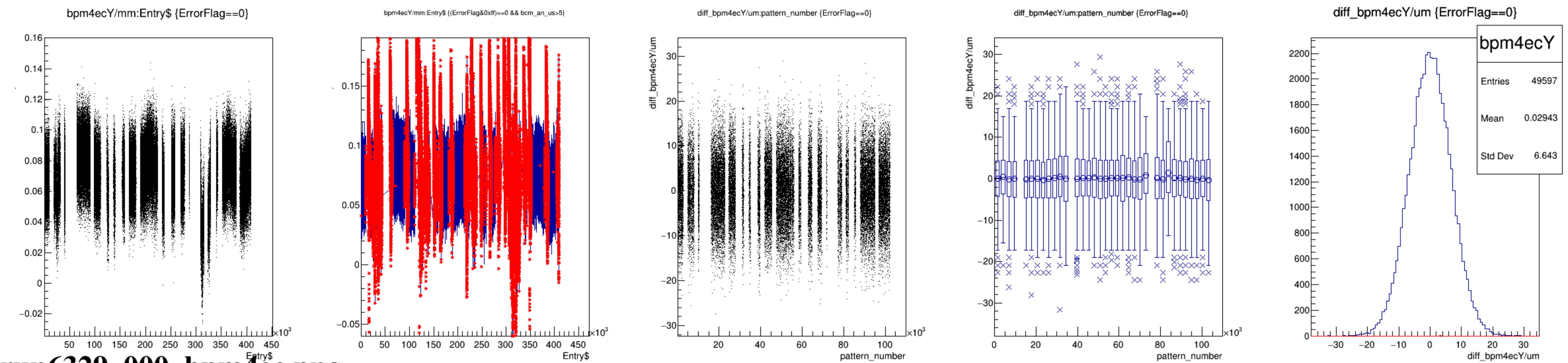
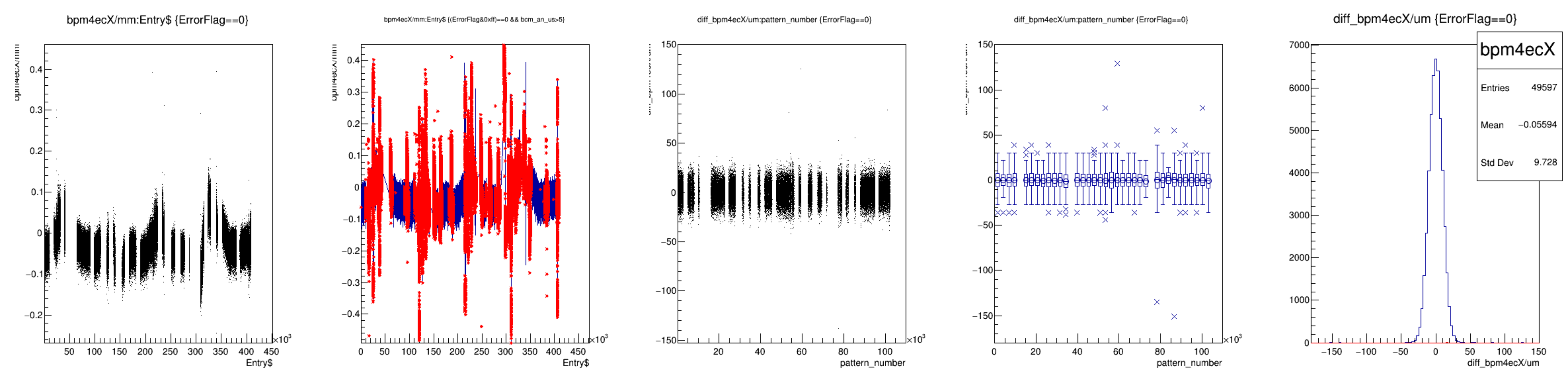


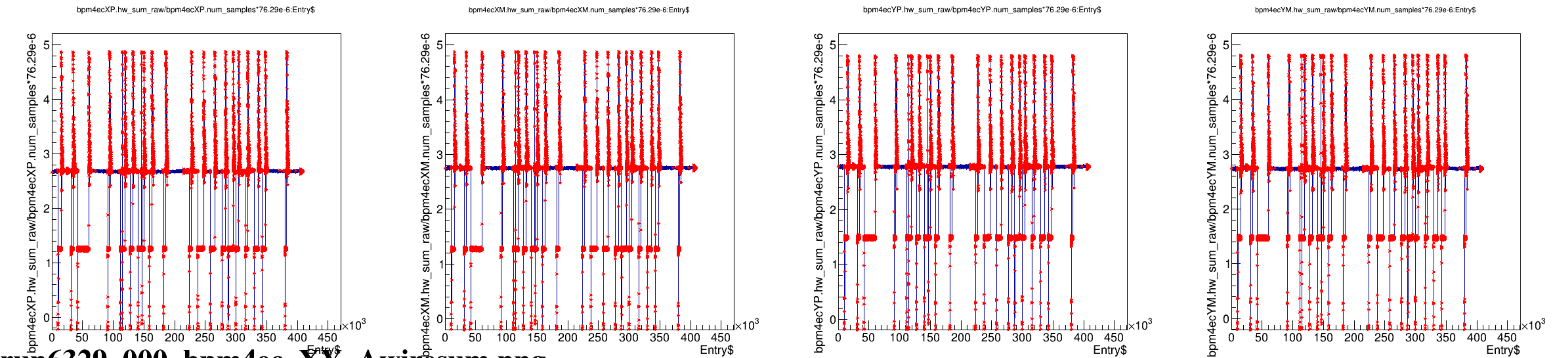
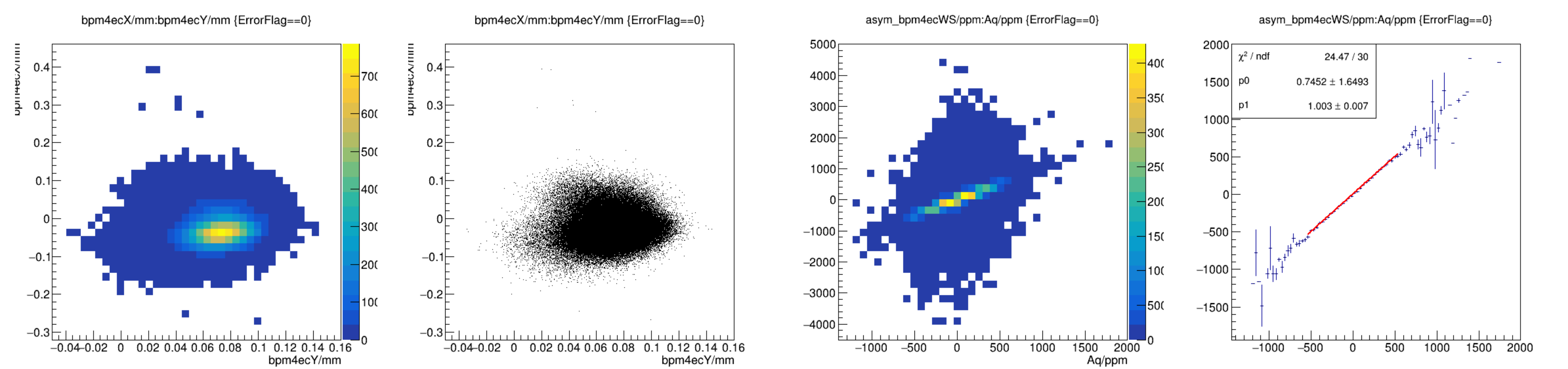






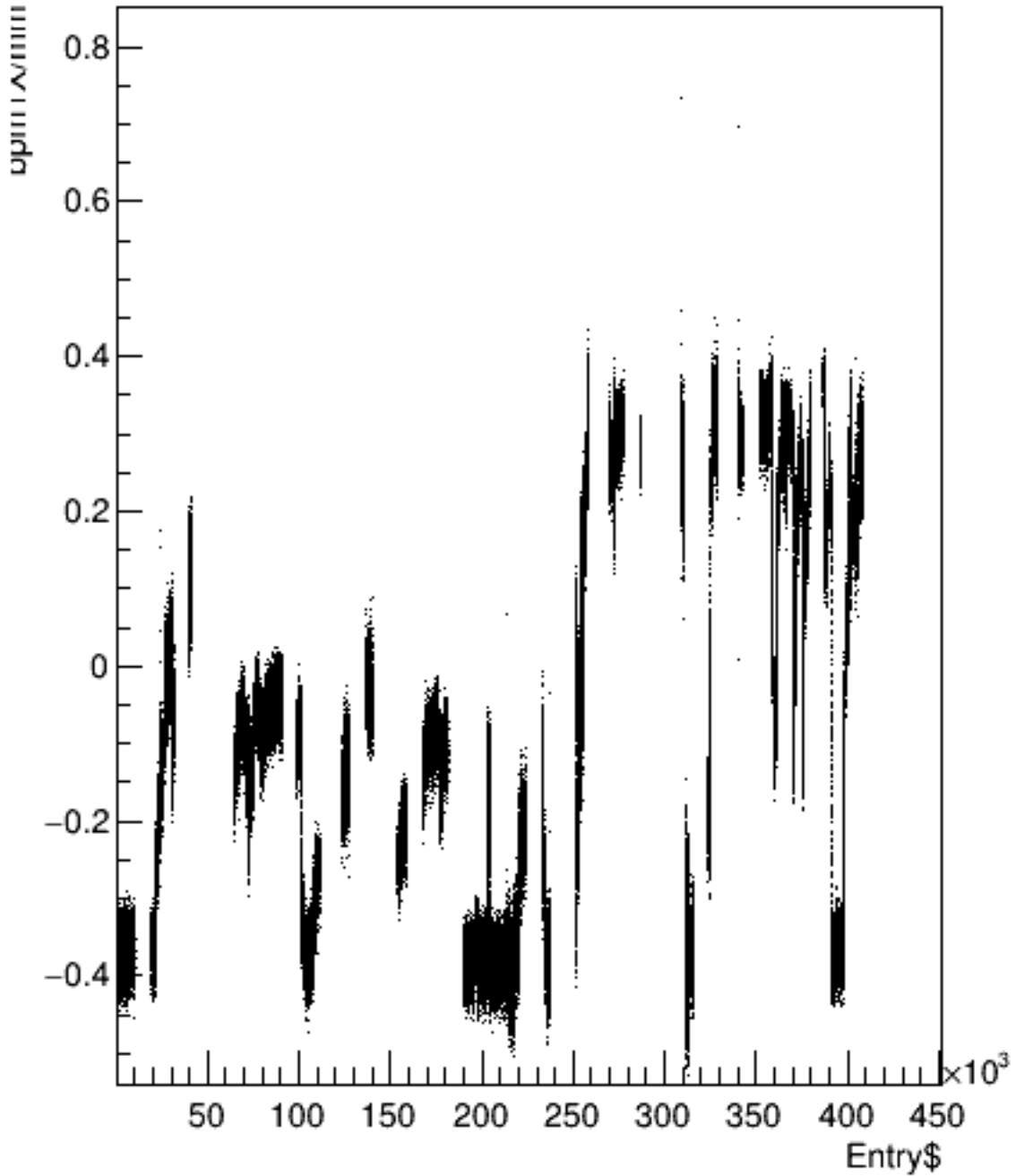




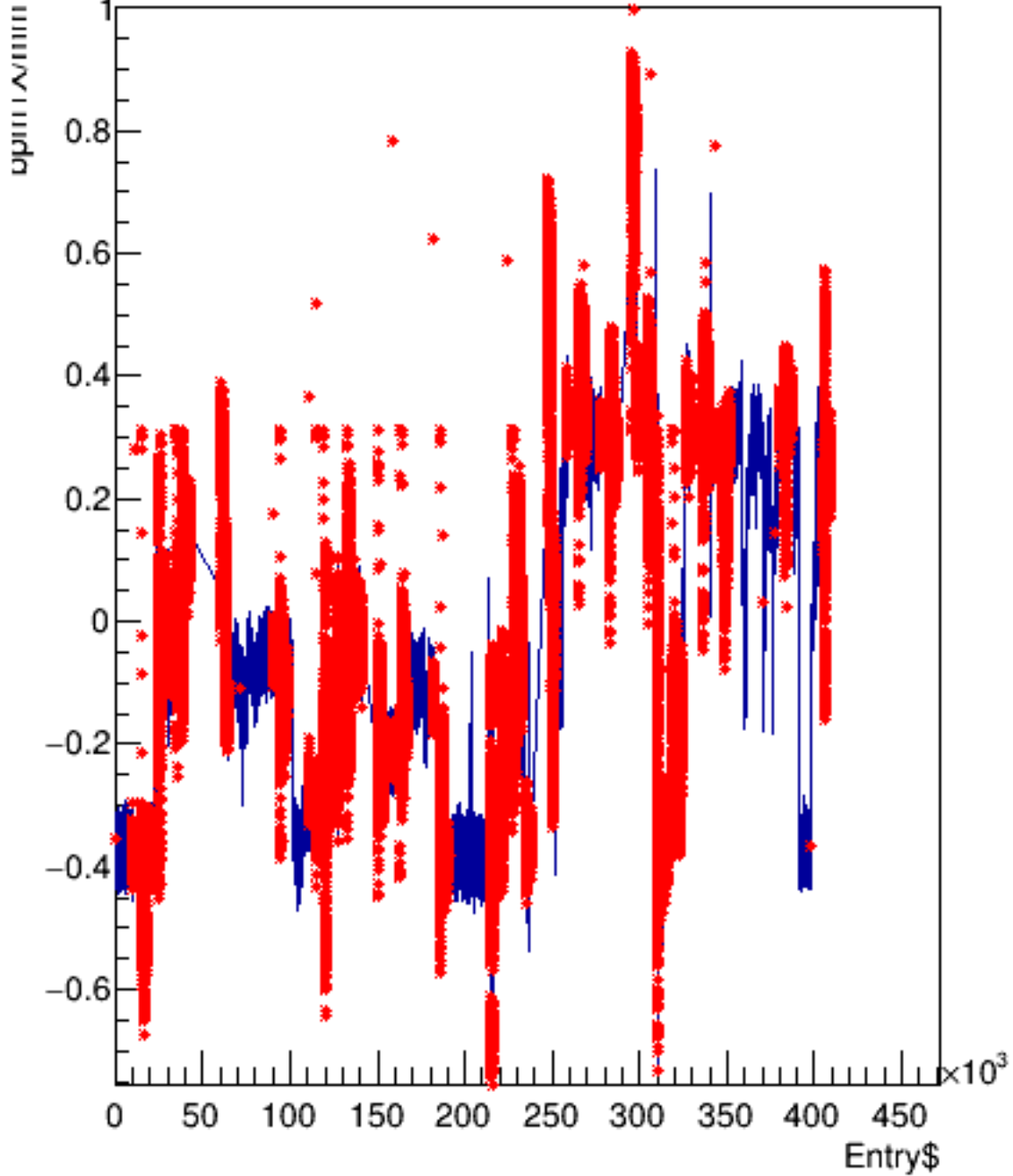


run6329_000_bpm4ec_XY_Awiresum.png

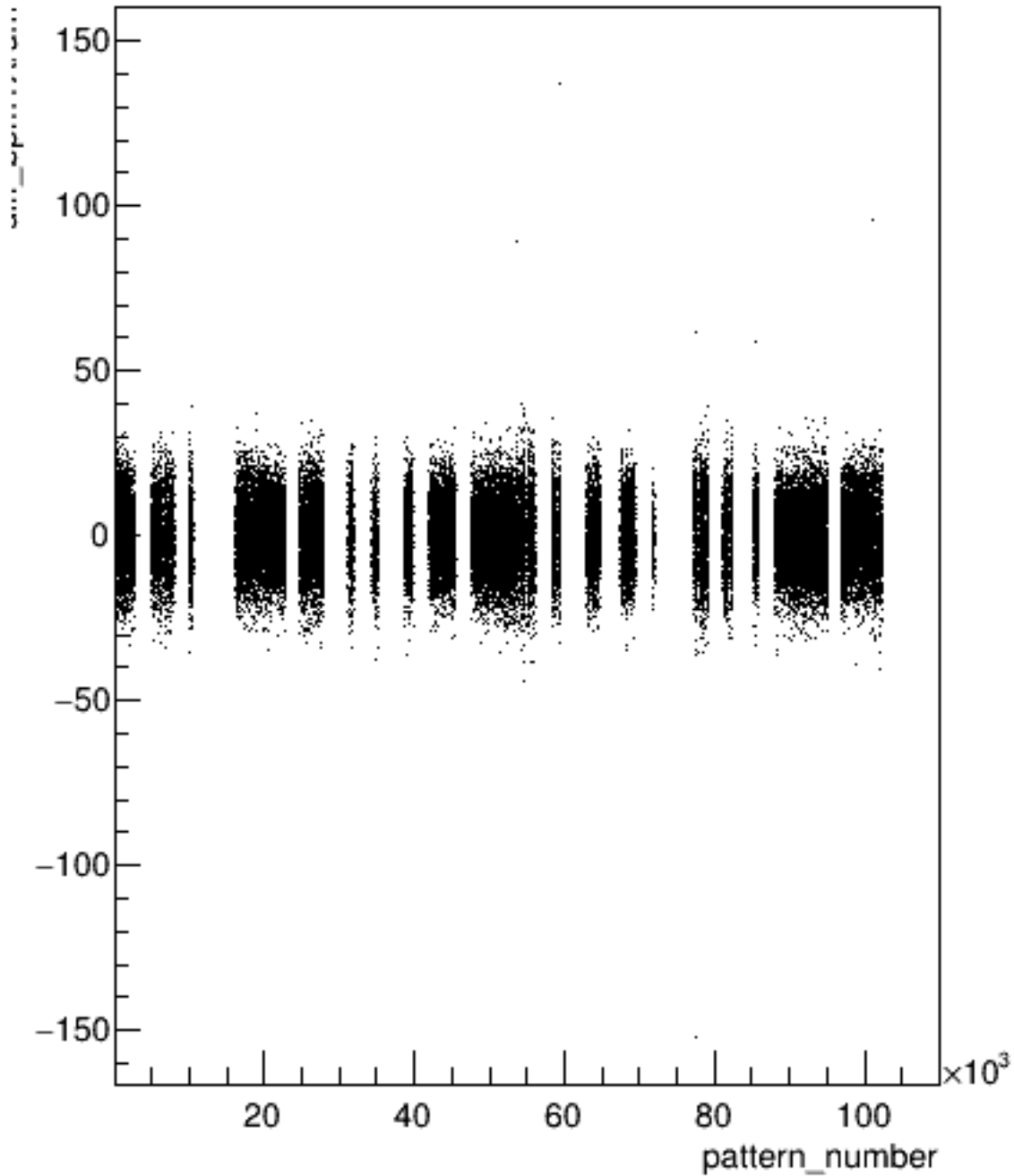
bpm1X/mm:Entry\$ {ErrorFlag==0}



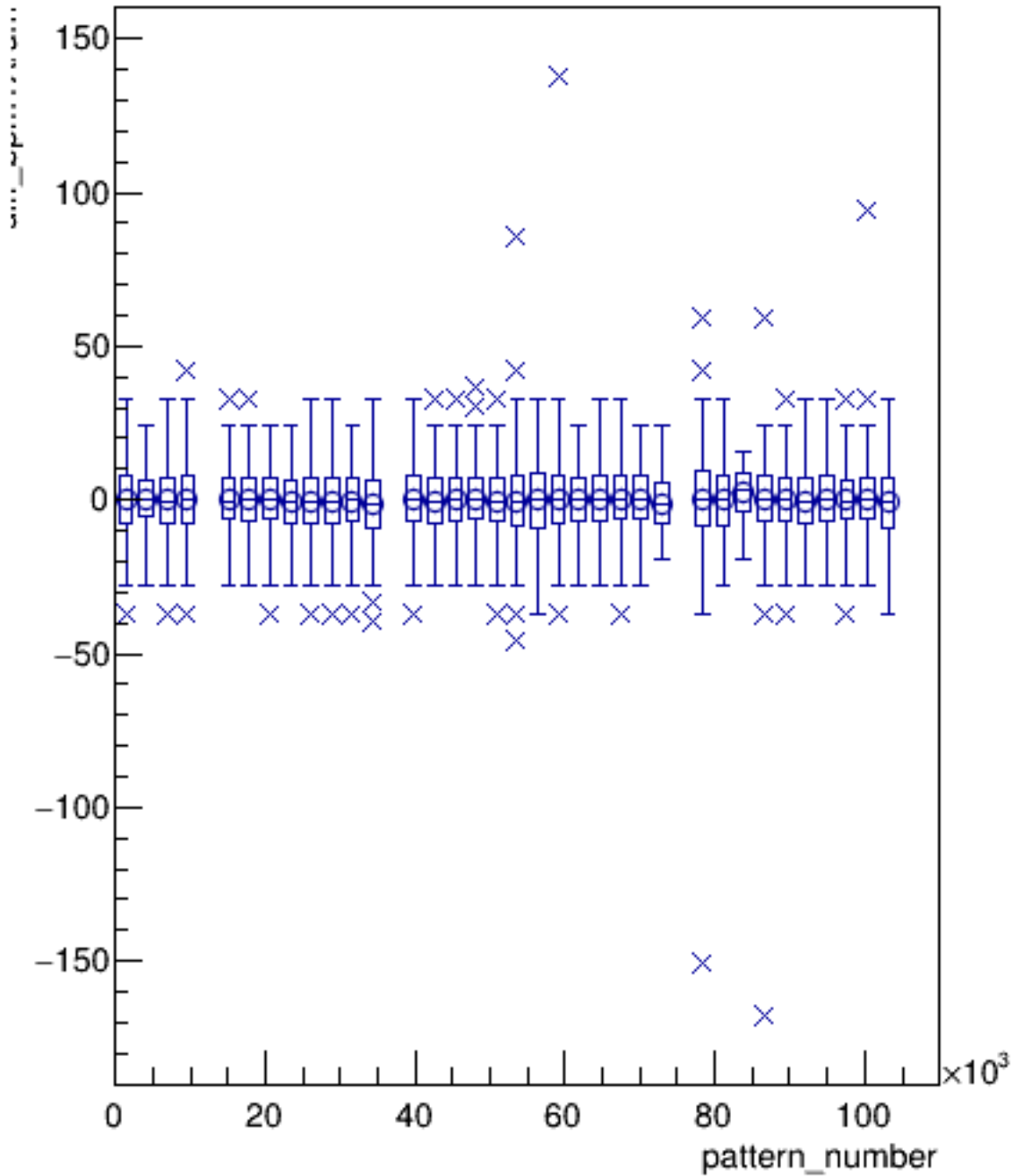
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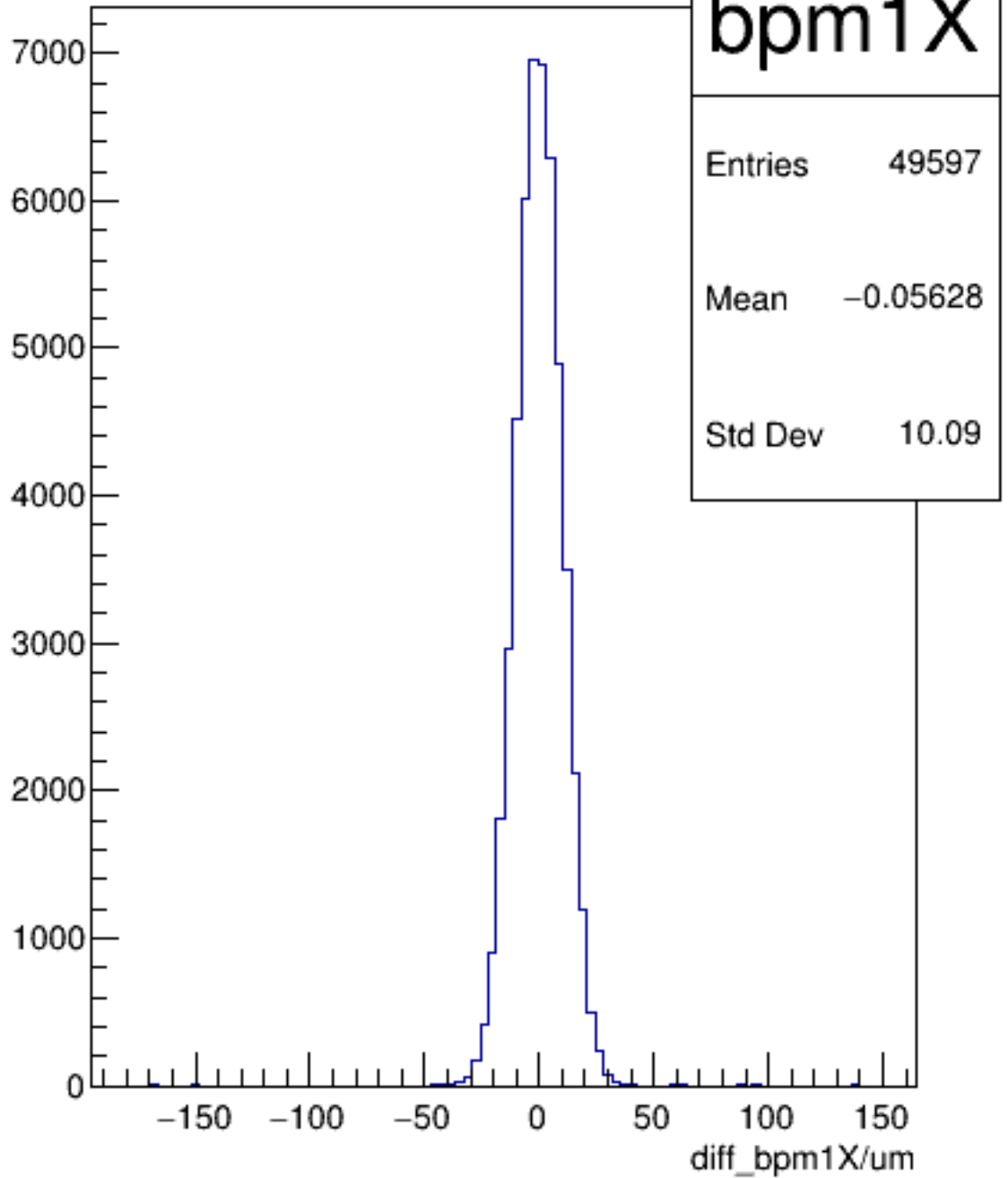
diff_bpm1X/um:pattern_number {ErrorFlag==0}



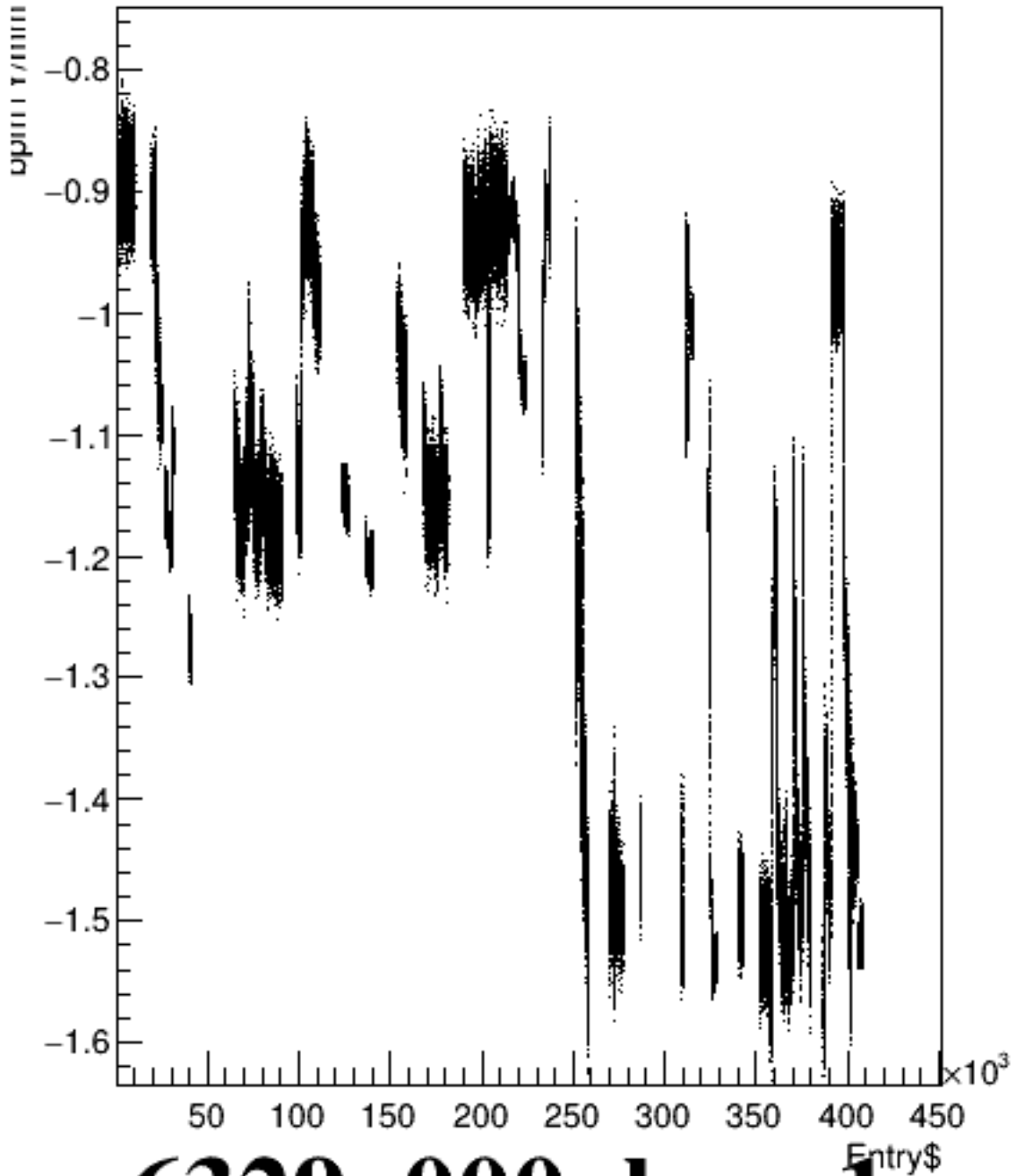
diff_bpm1X/um:pattern_number {ErrorFlag==0}



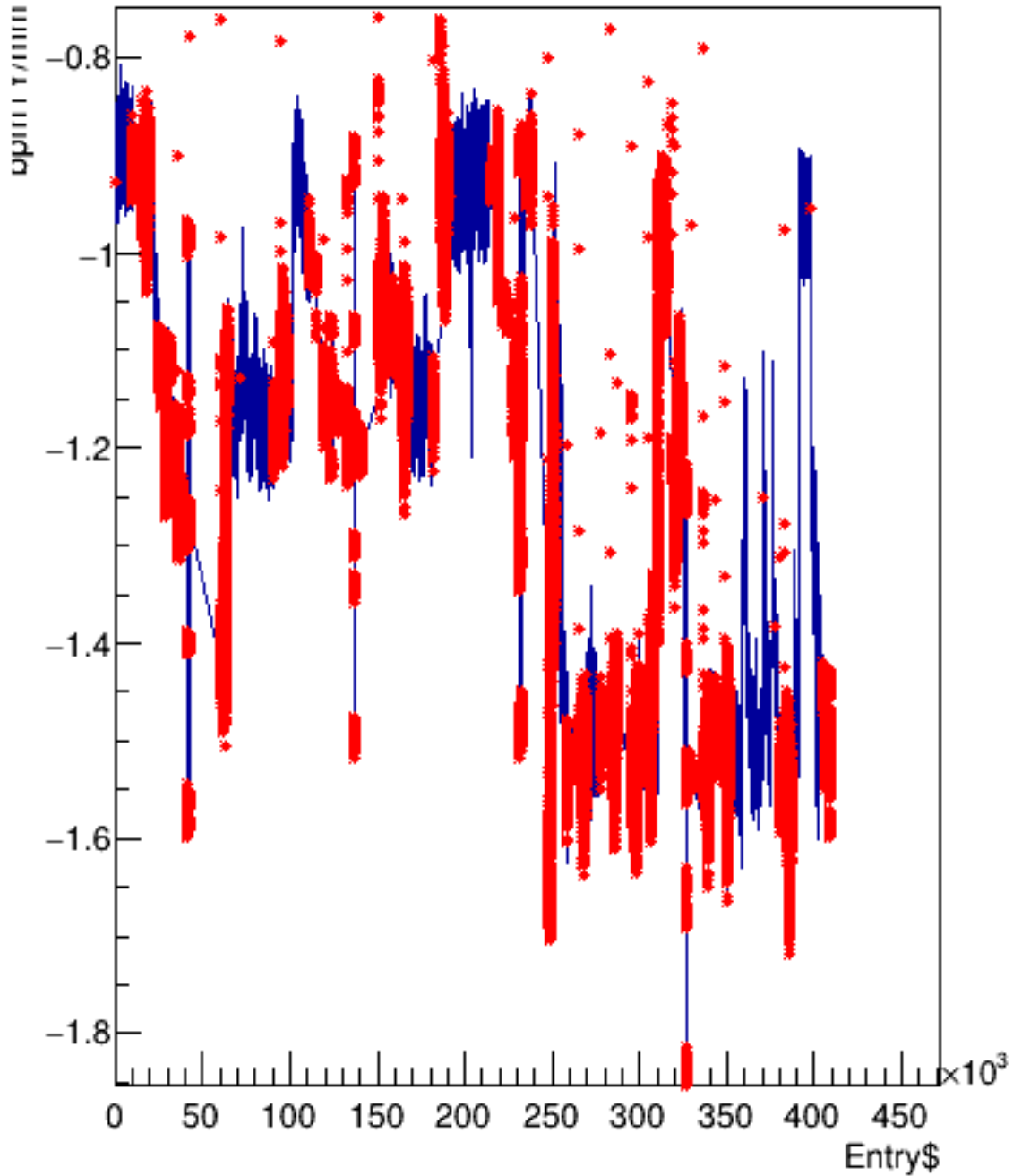
diff_bpm1X/um {ErrorFlag==0}



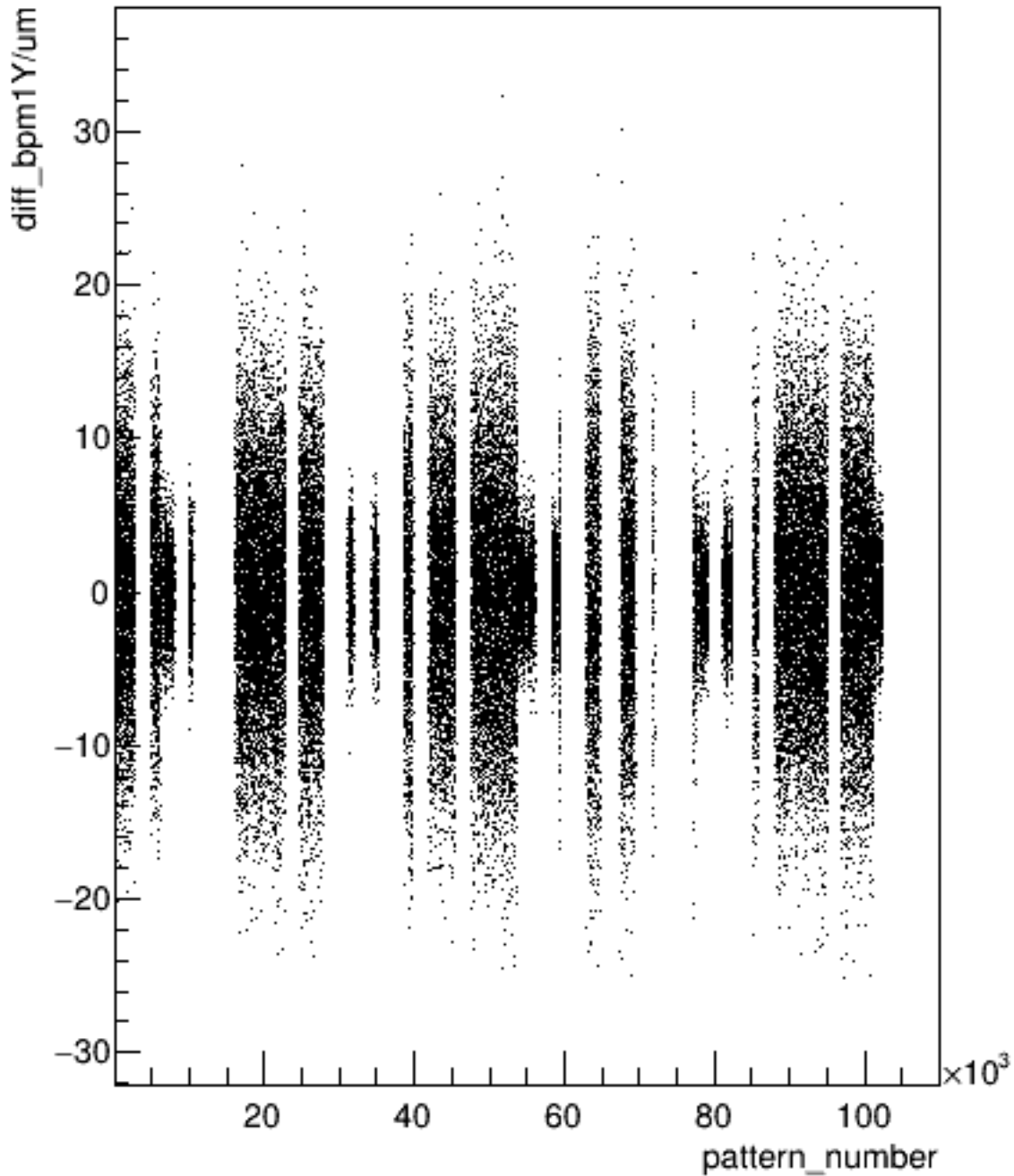
bpm1Y/mm:Entry\$ {ErrorFlag==0}



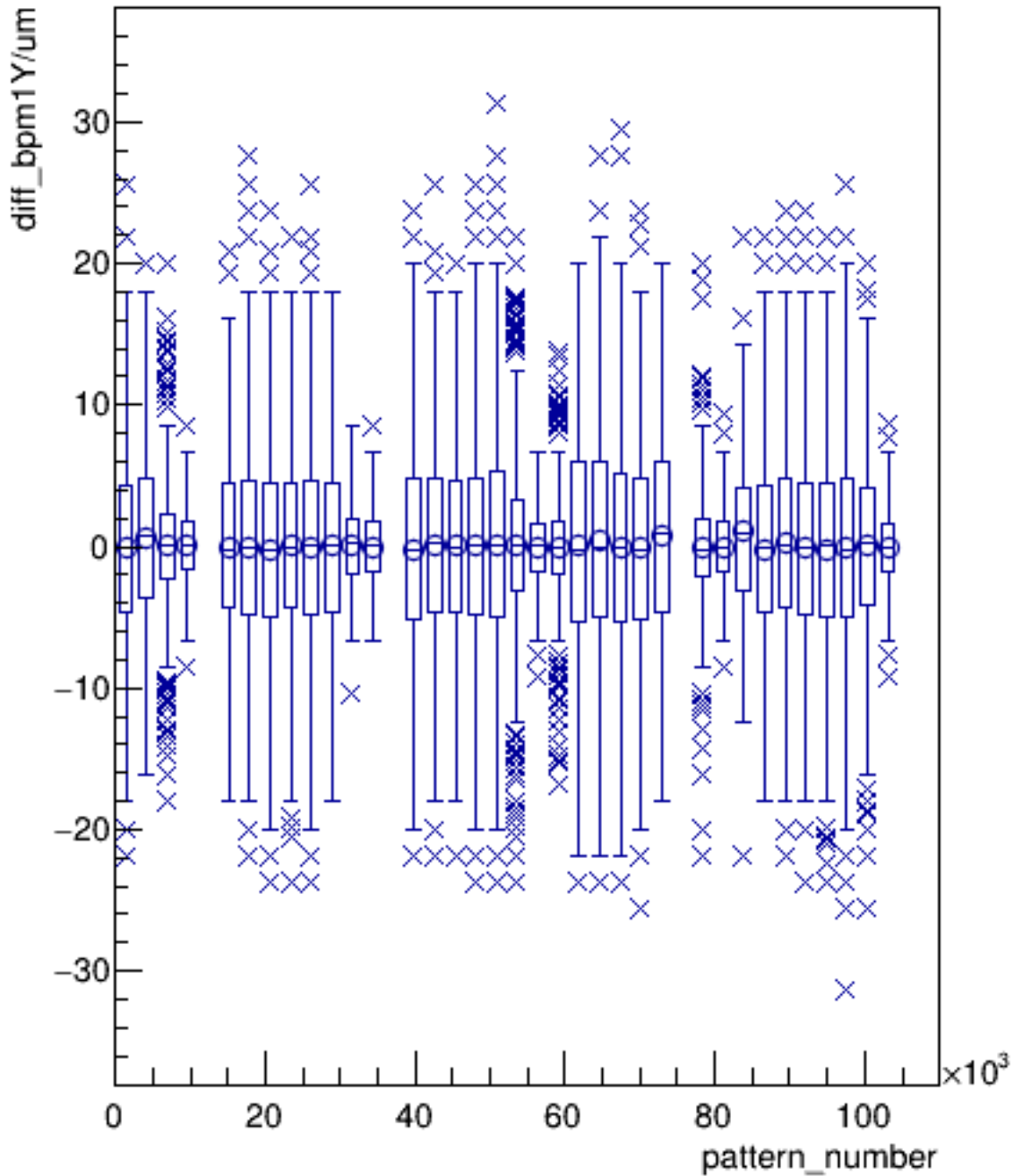
bpm1Y/mm:Entry\$ {(ErrorFlag&0xf)==0 && bcm_an_us>5}



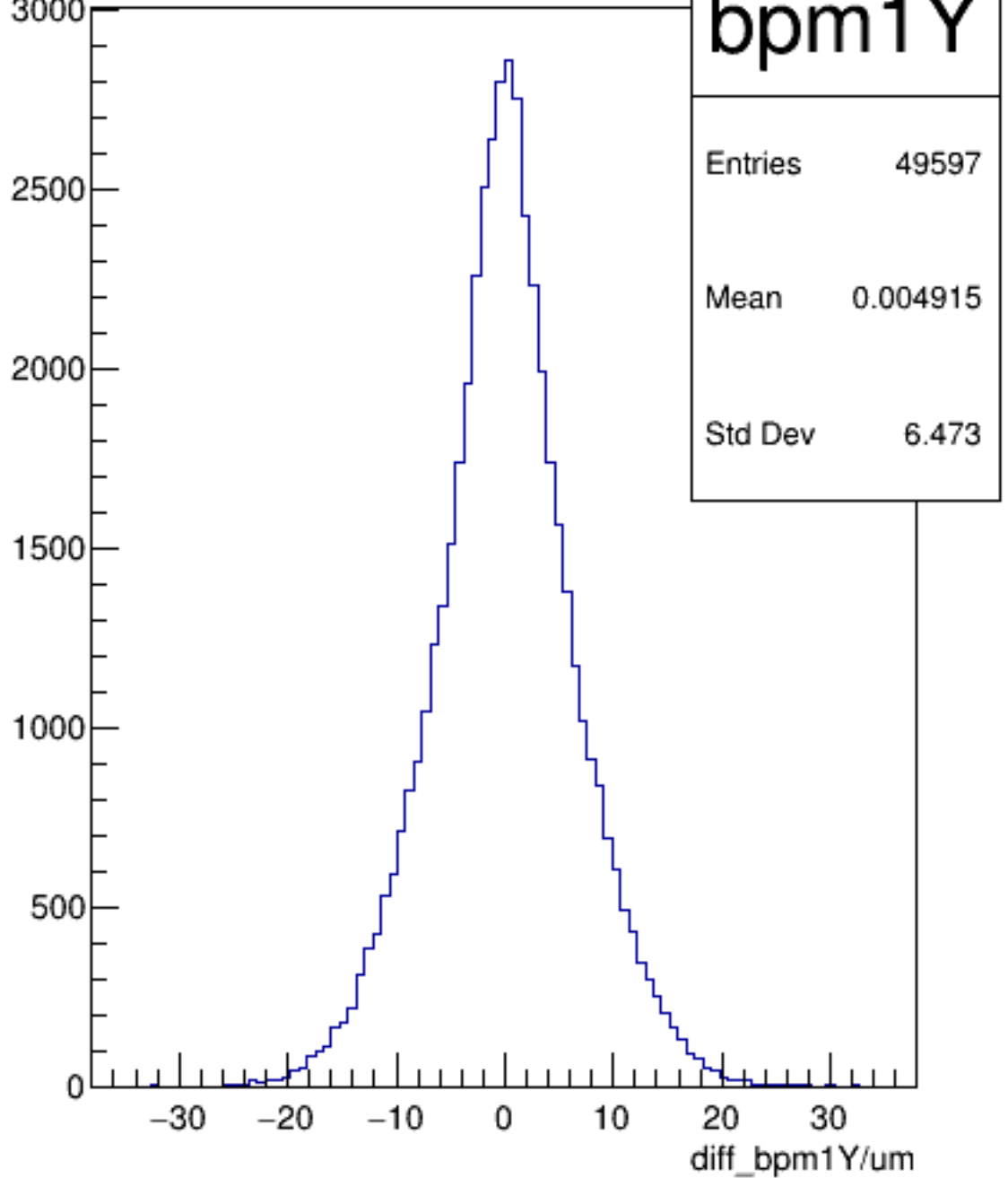
diff_bpm1Y/um:pattern_number {ErrorFlag==0}

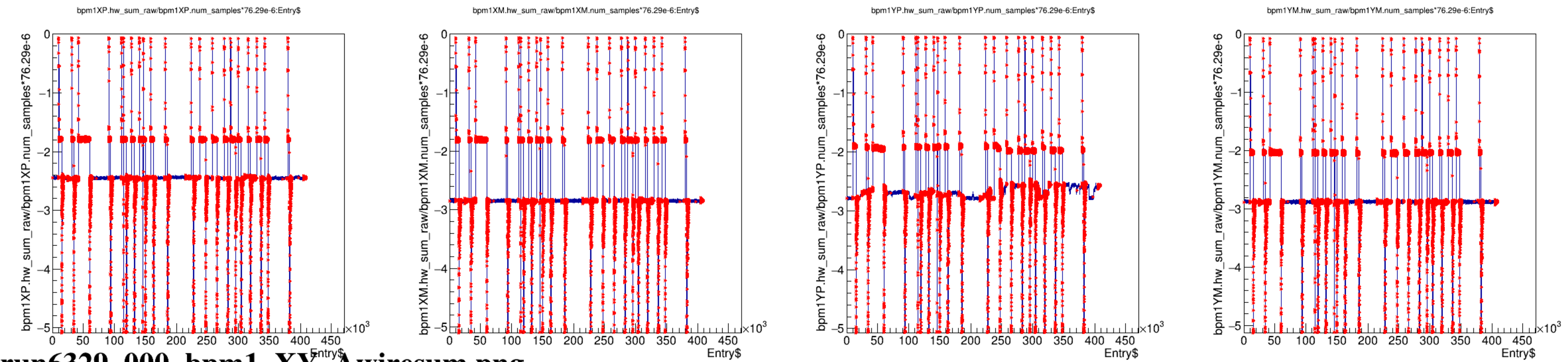
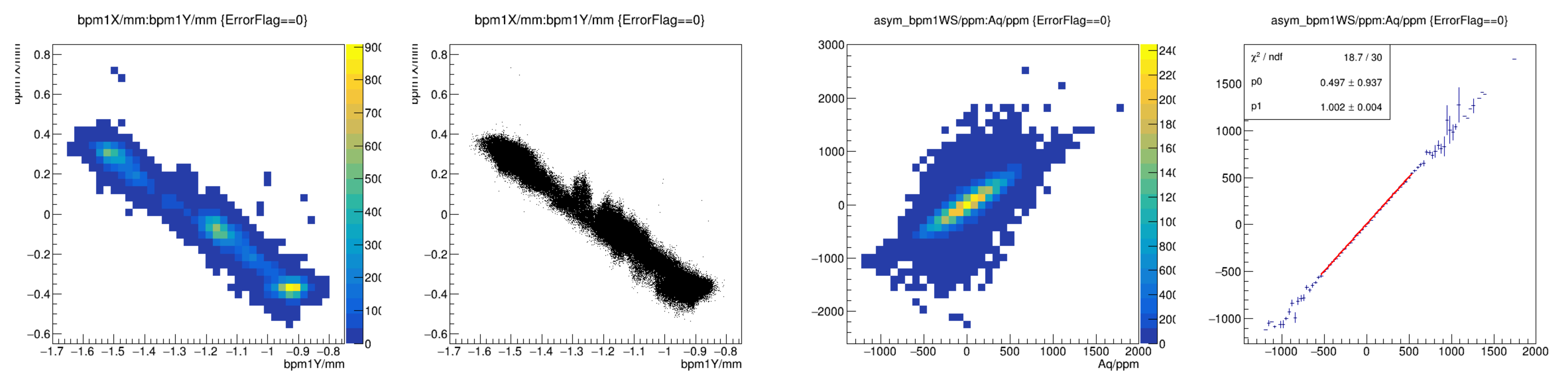


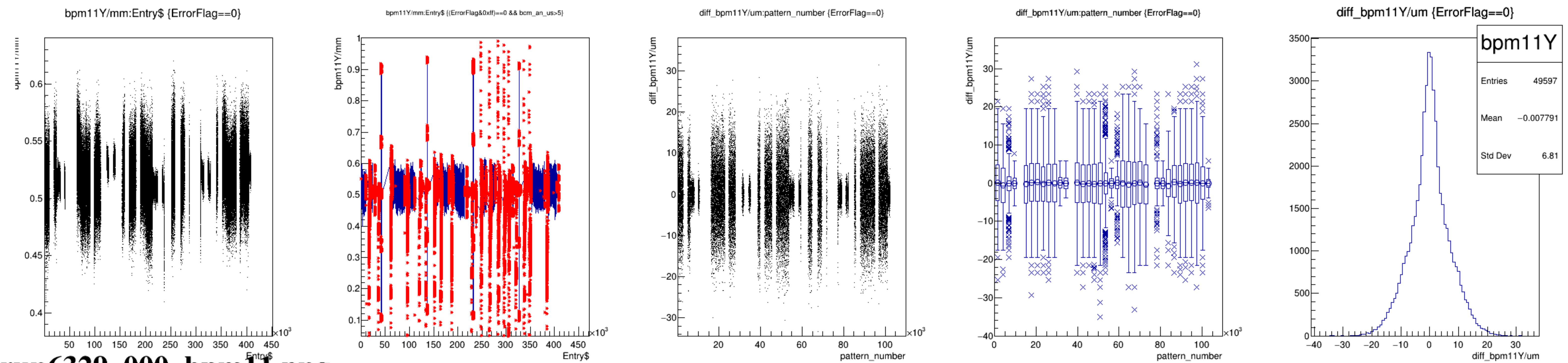
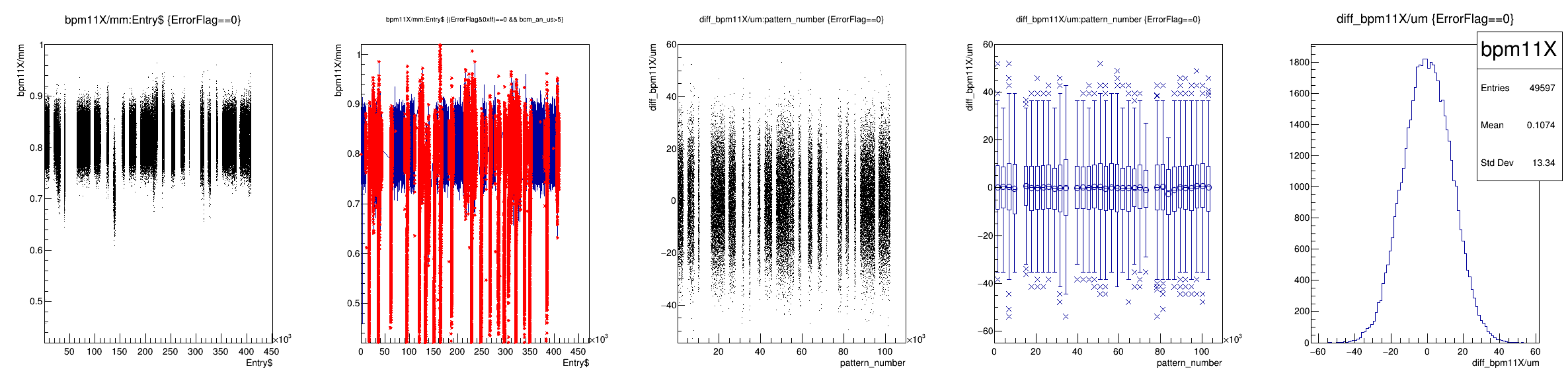
diff_bpm1Y/um:pattern_number {ErrorFlag==0}

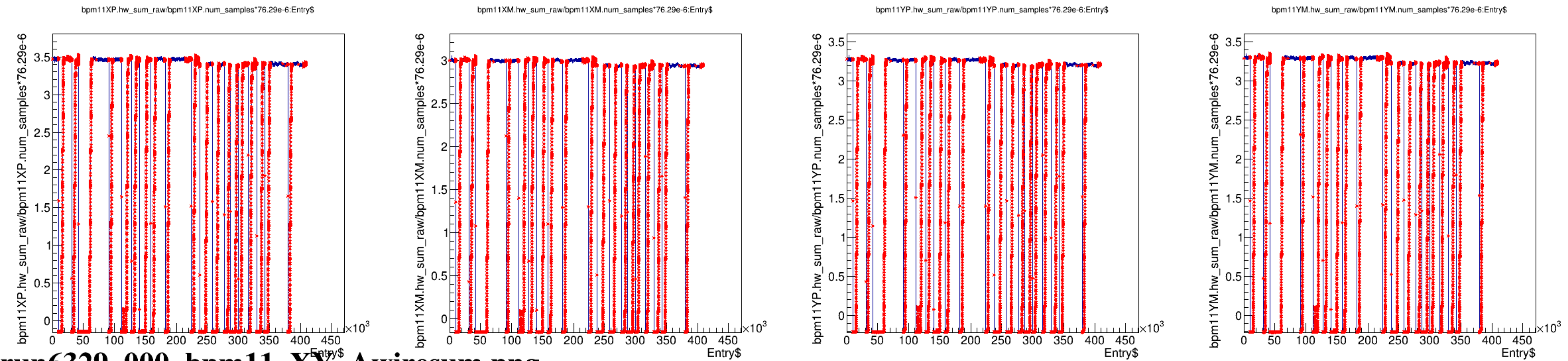
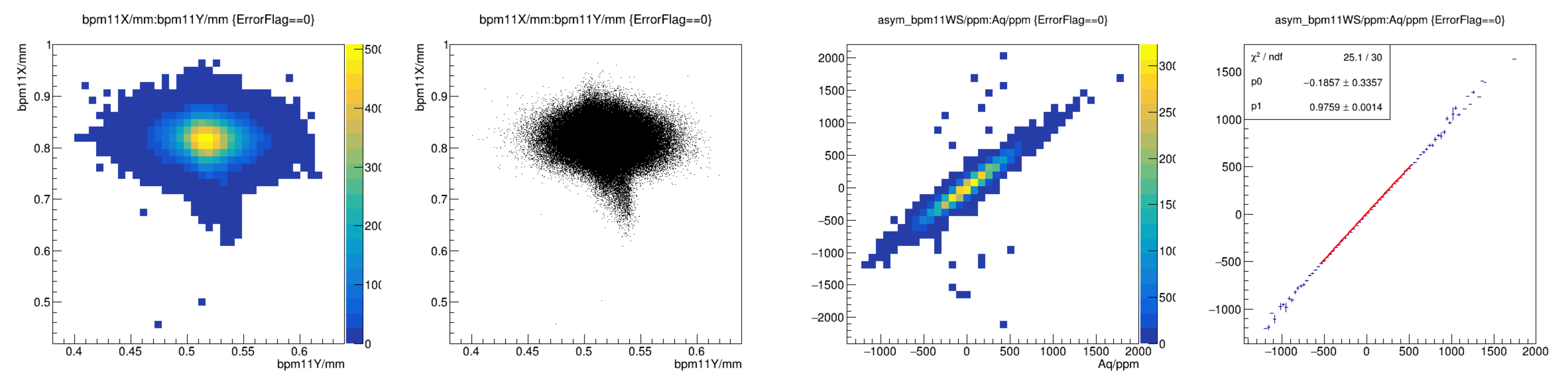


diff_bpm1Y/um {ErrorFlag==0}

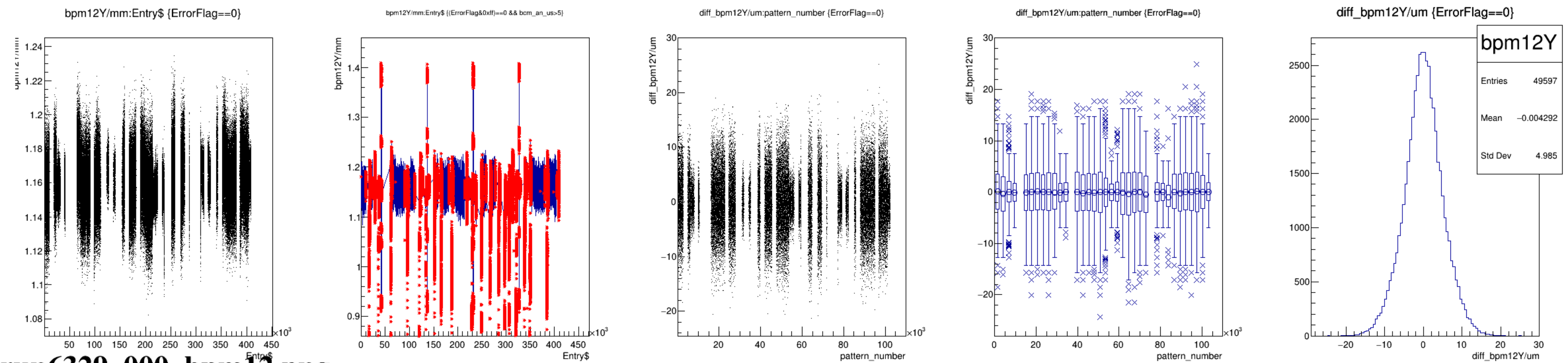
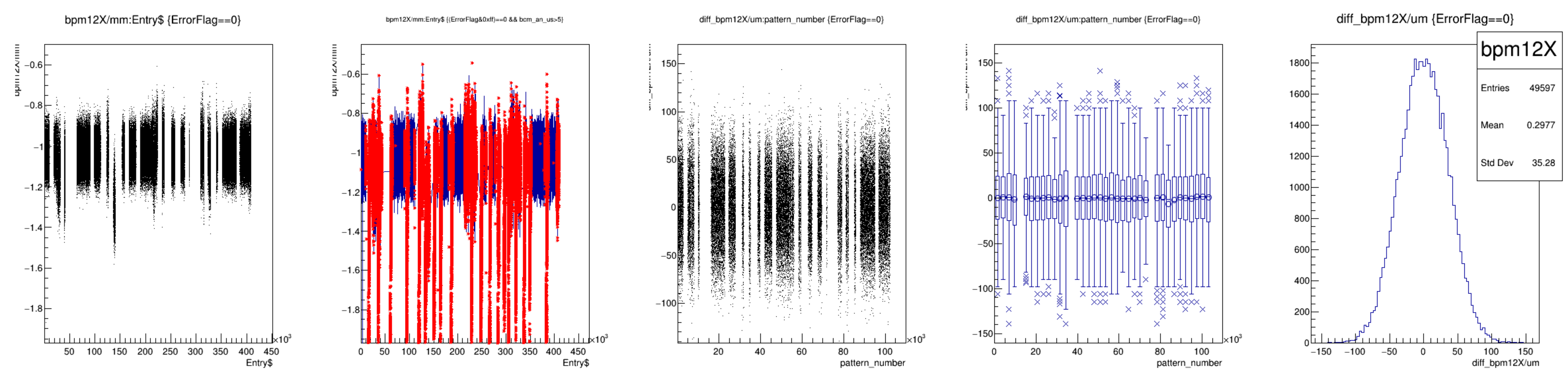


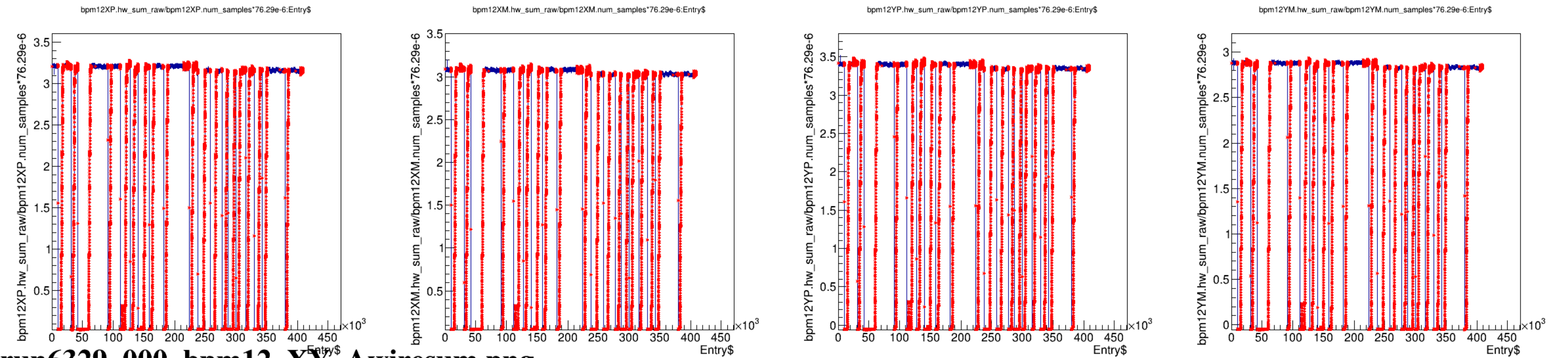
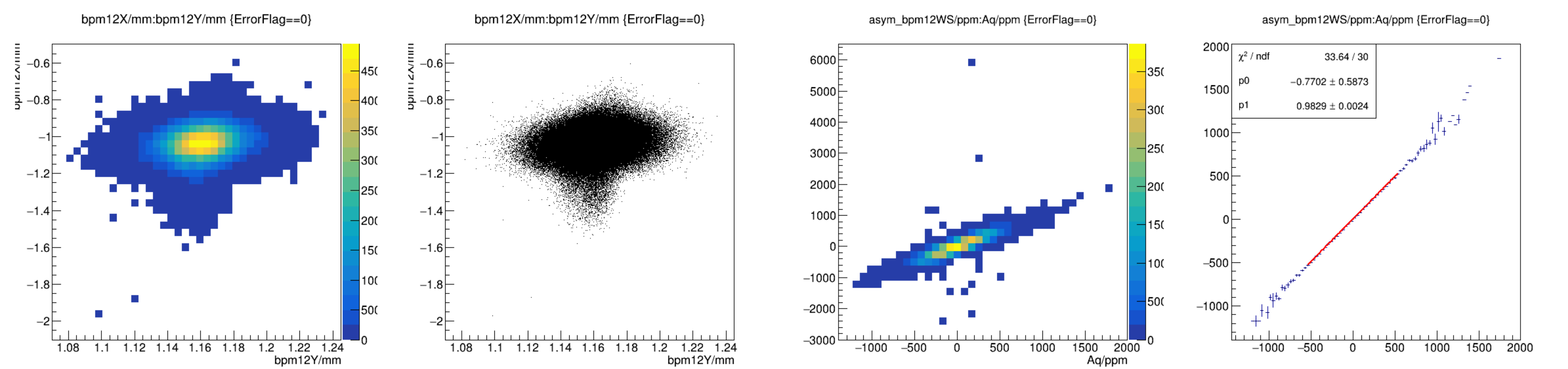




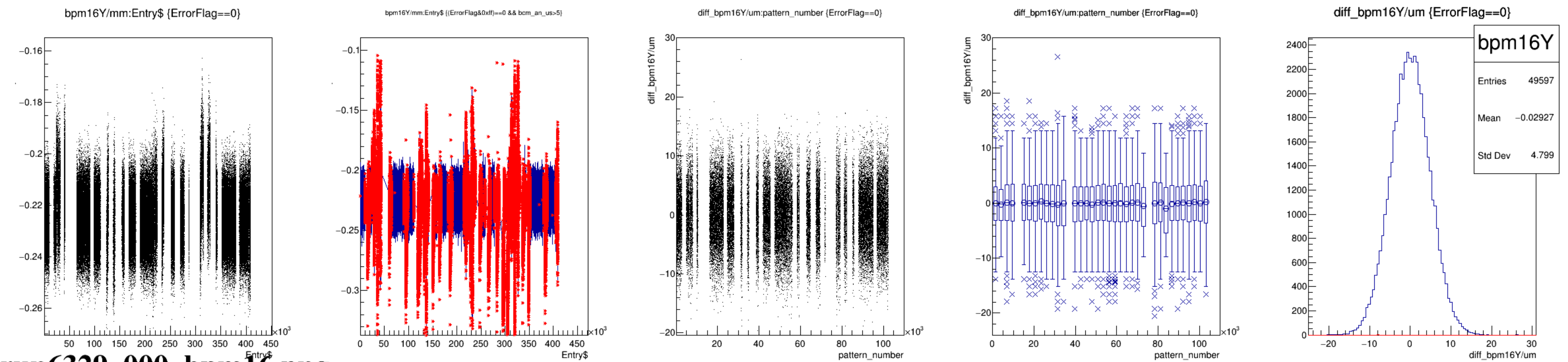
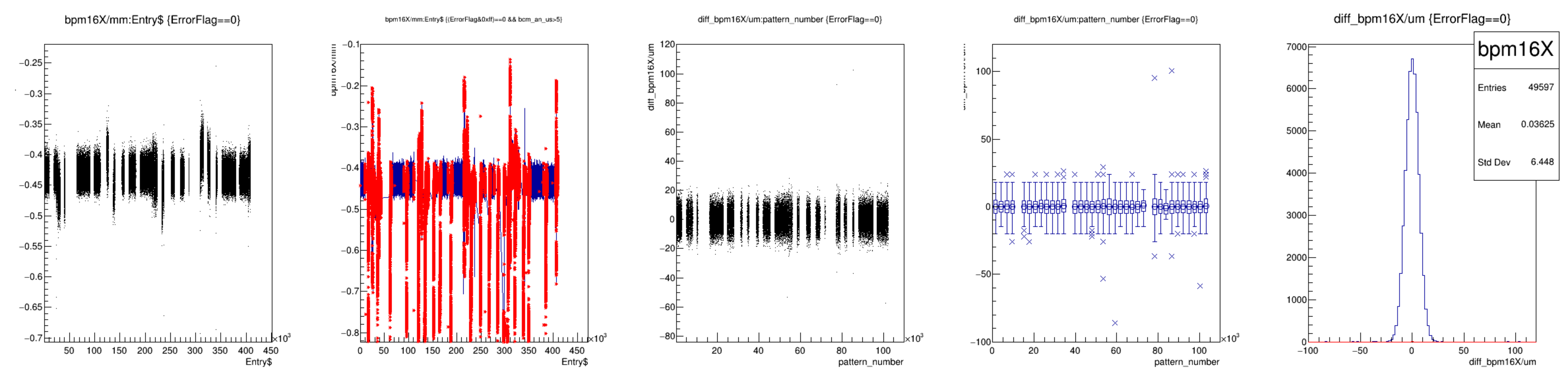


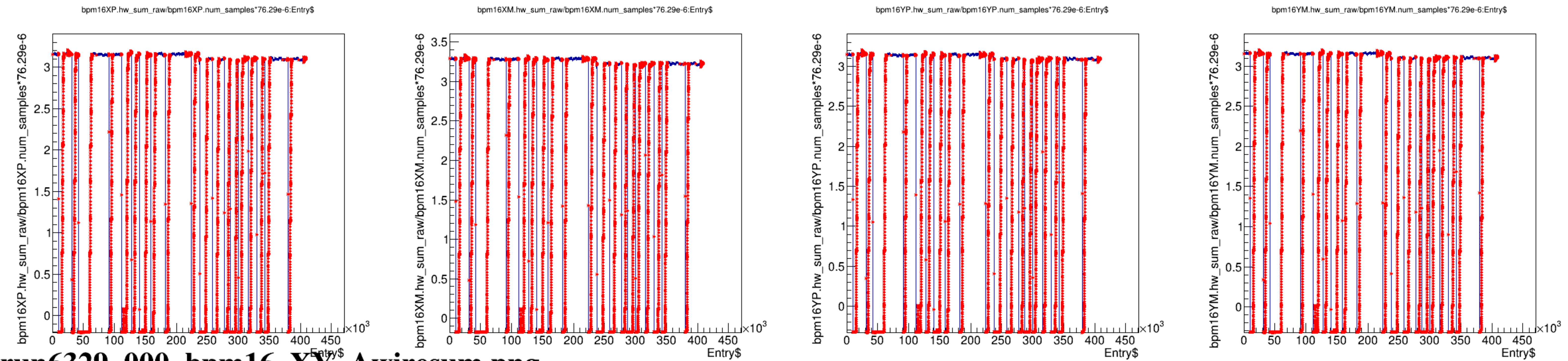
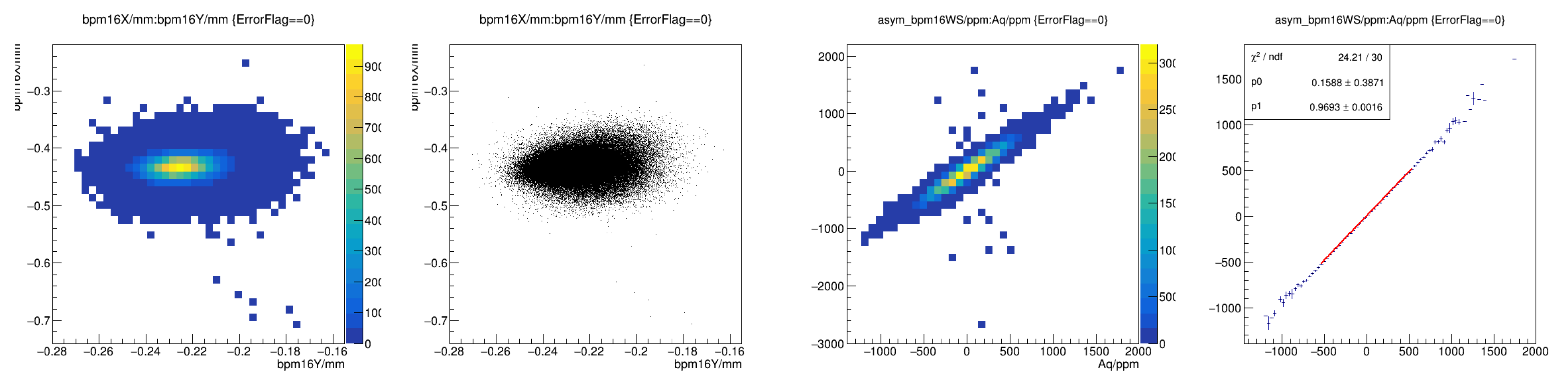
run6329_000_bpm11_XY_Awiresum.png

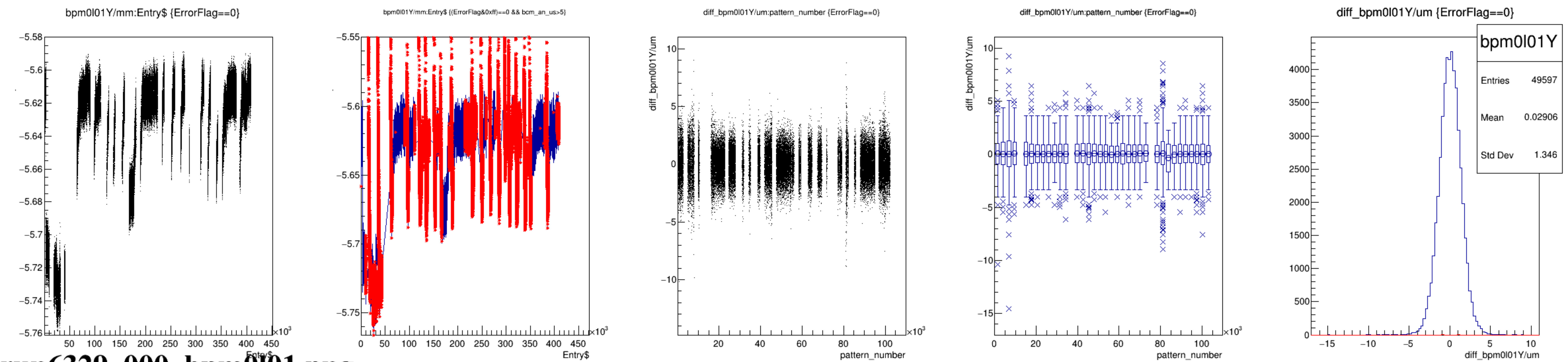
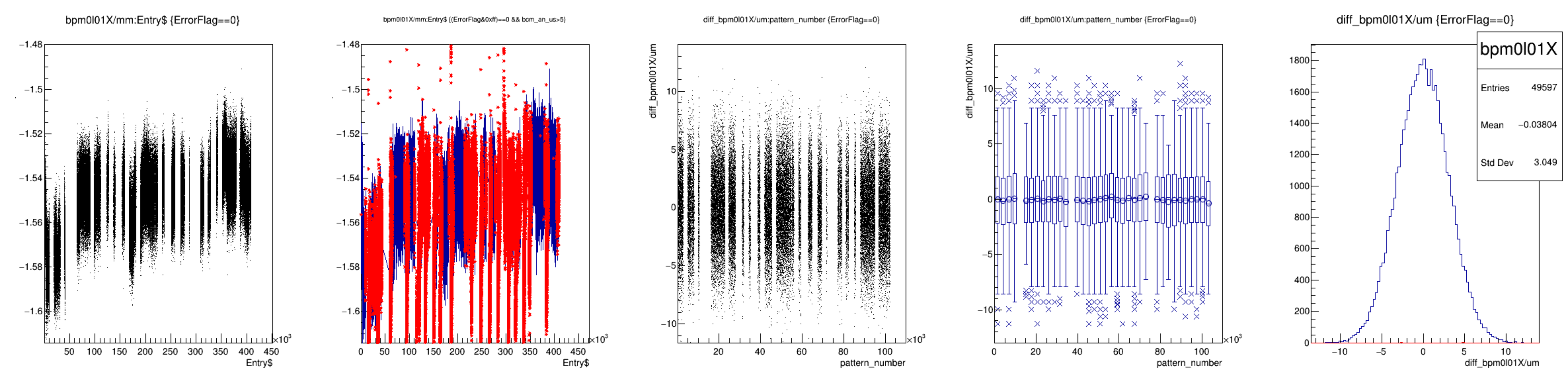


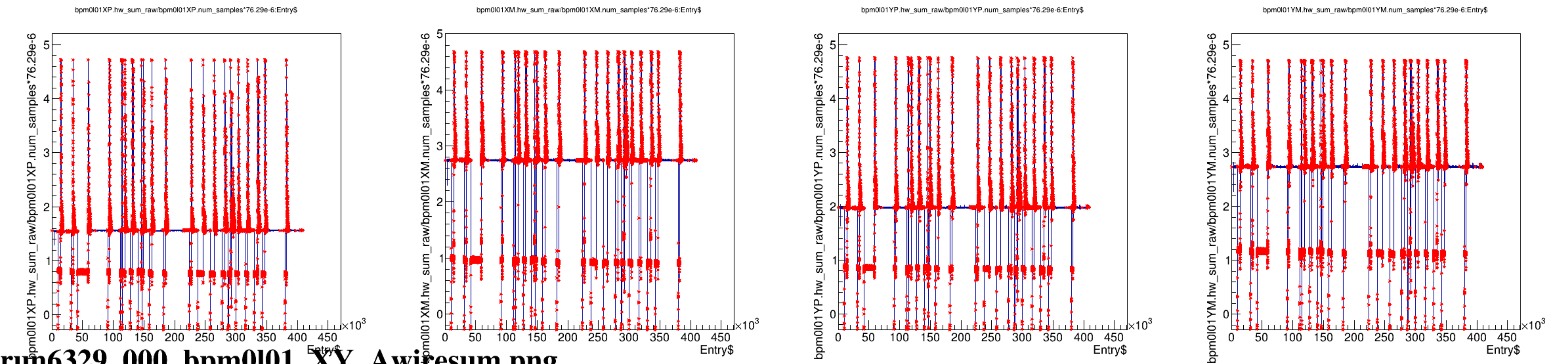
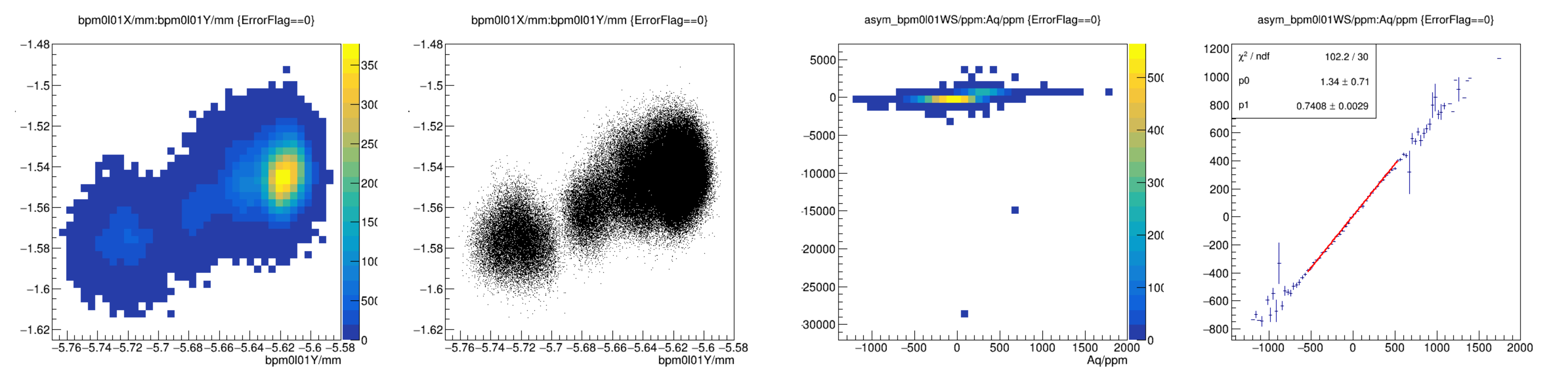


run6329_000_bpm12_XY_Awiresum.png

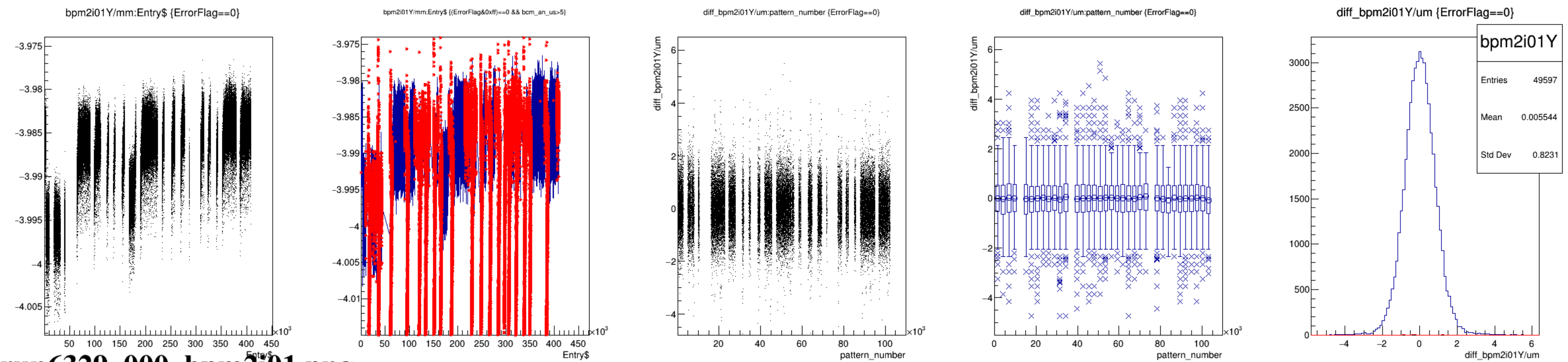
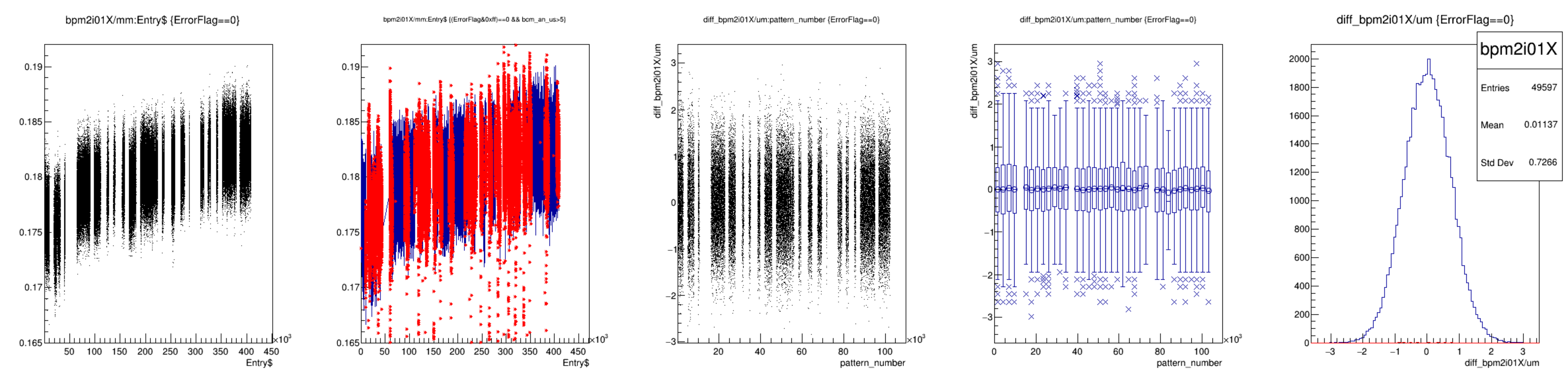


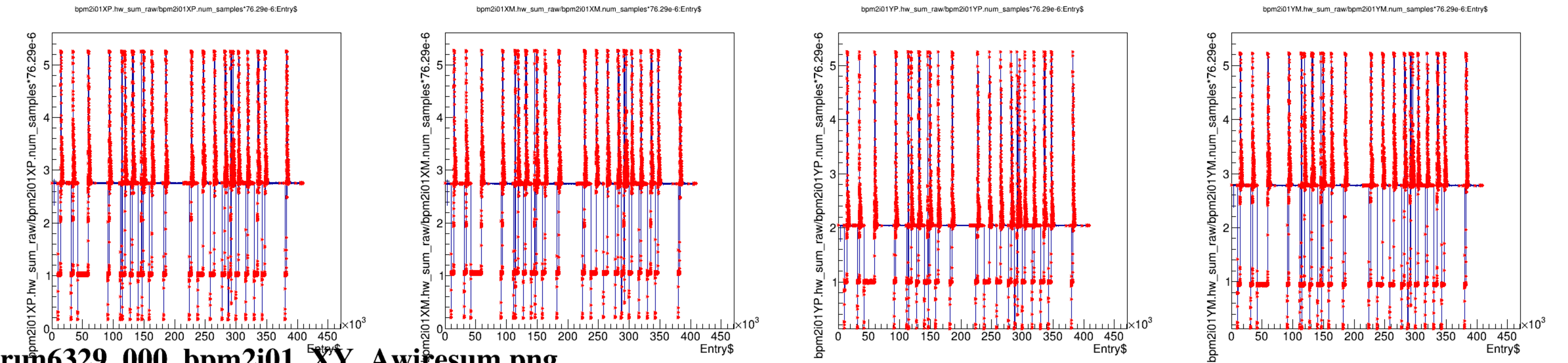
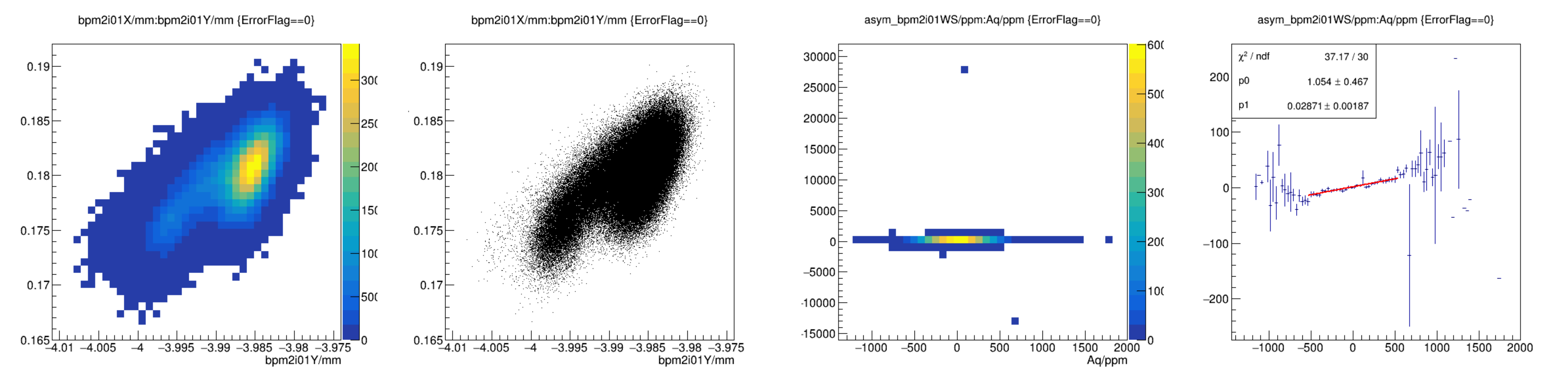


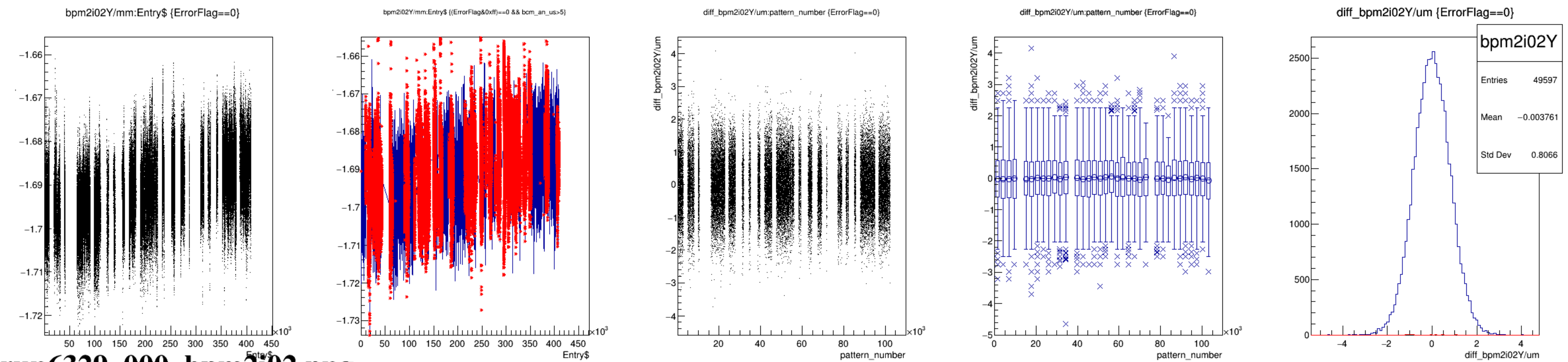
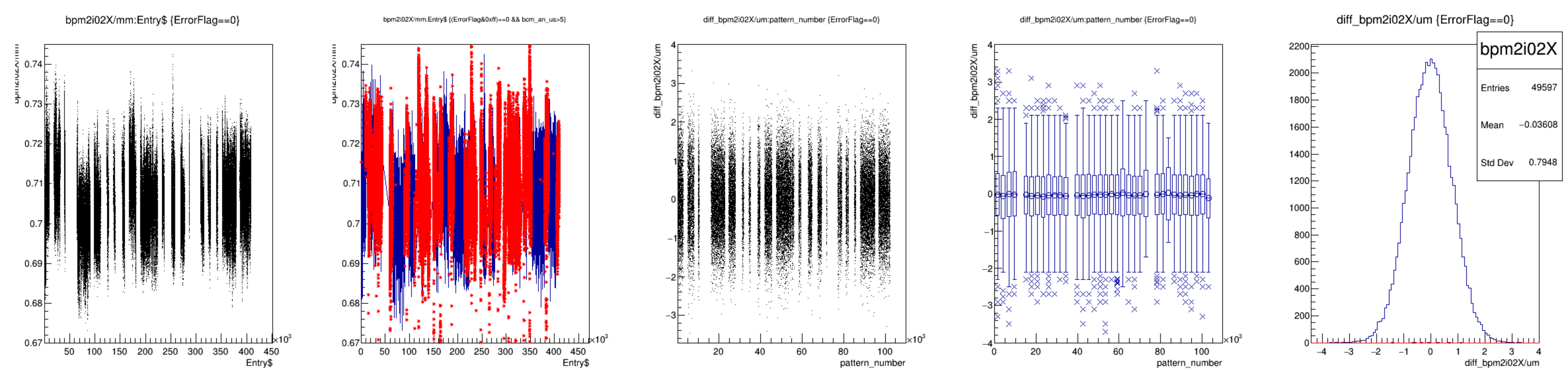


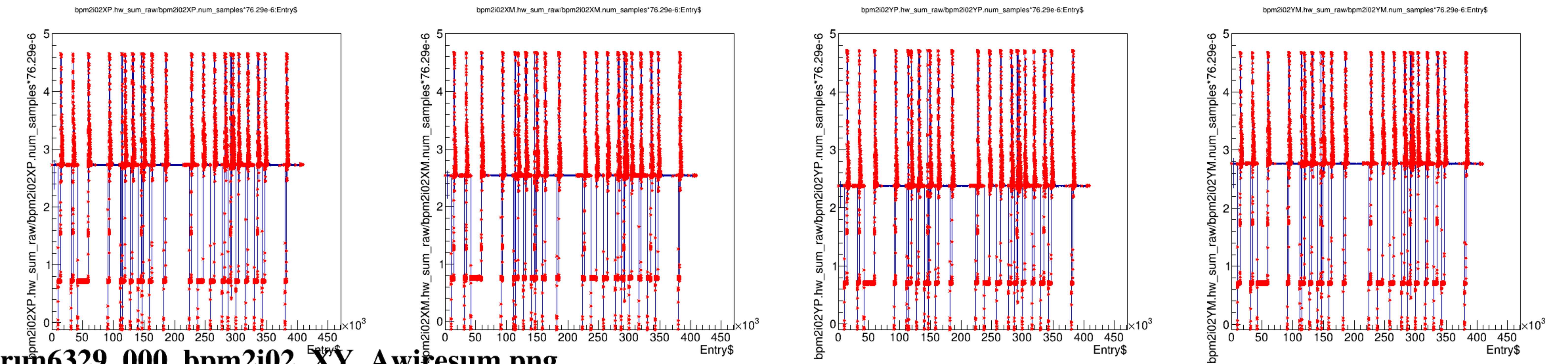
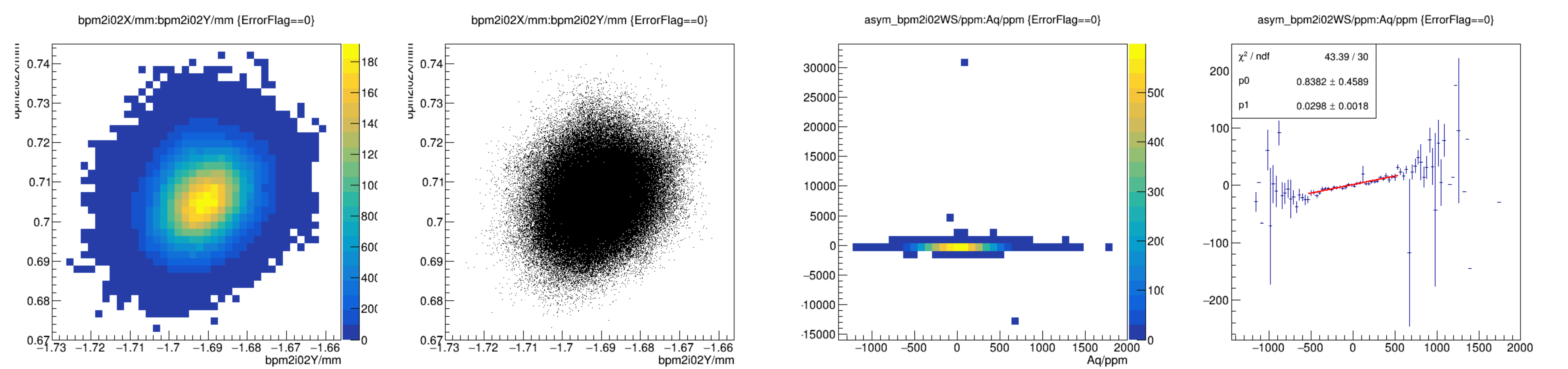


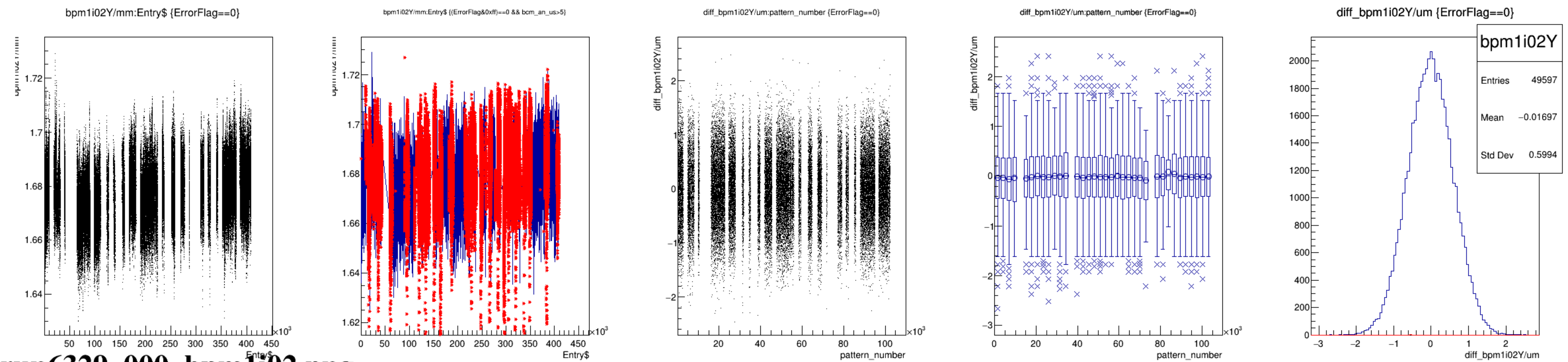
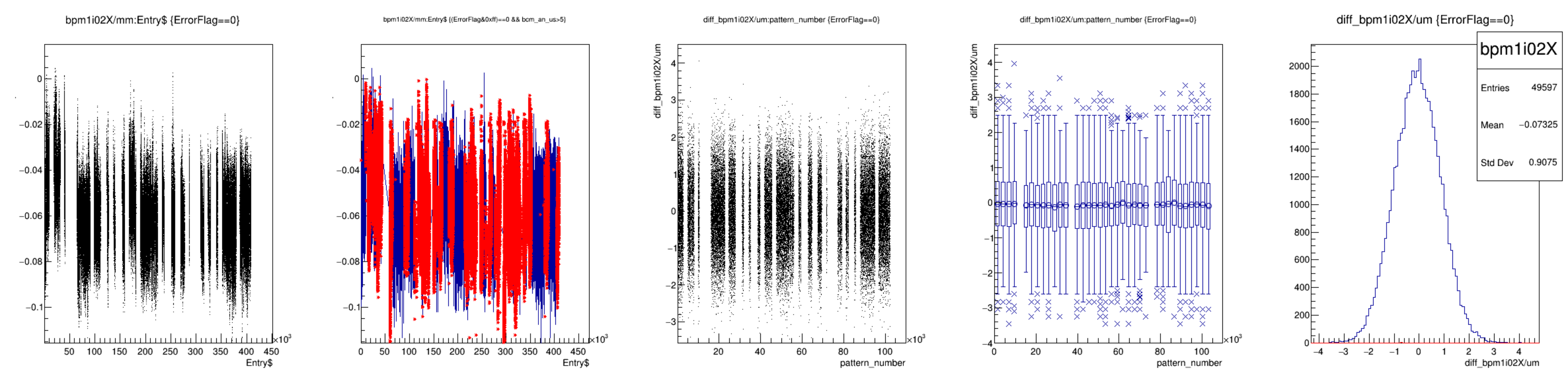
run6329_000_bpm0l01_XY_Awiresum.png



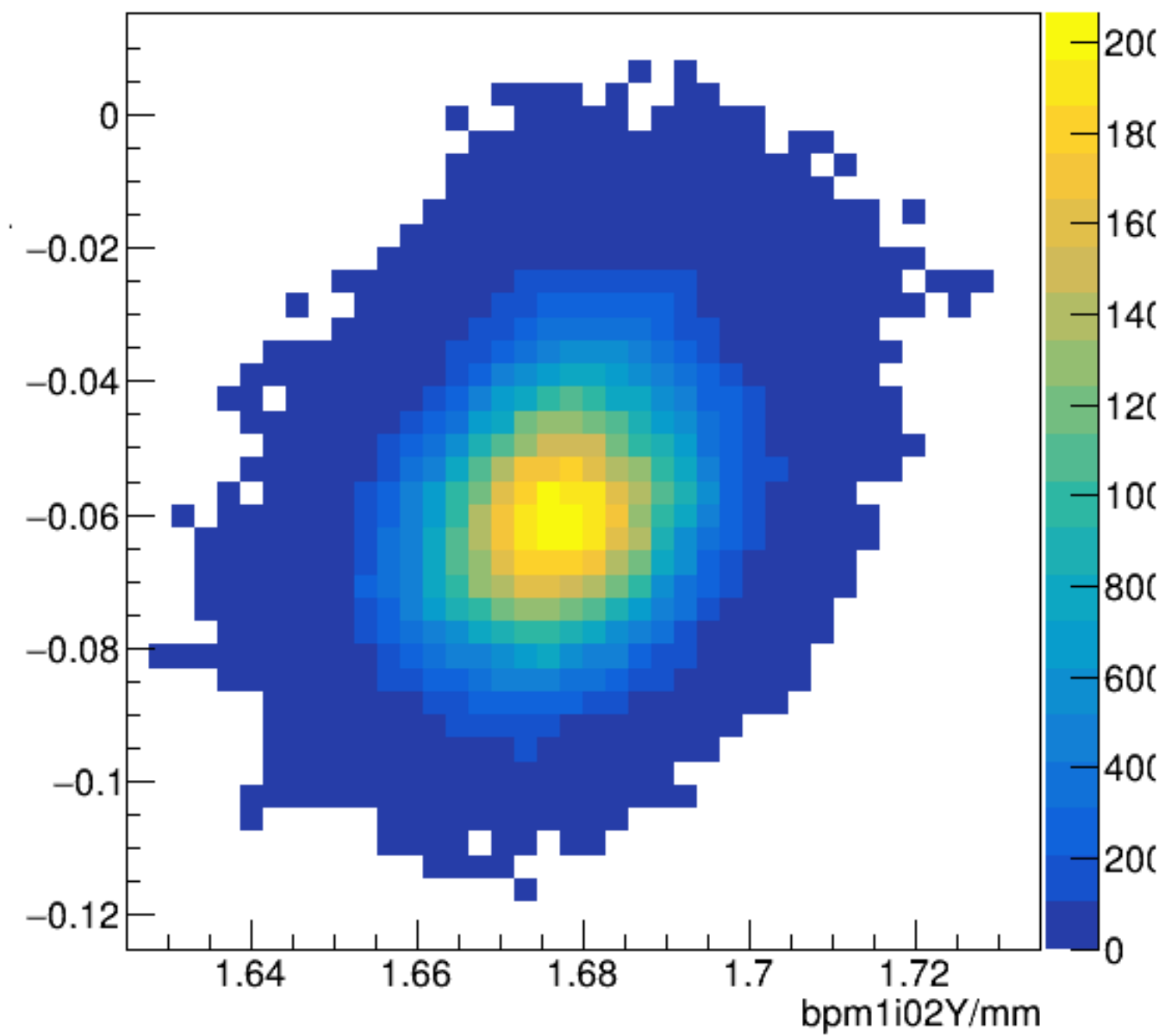




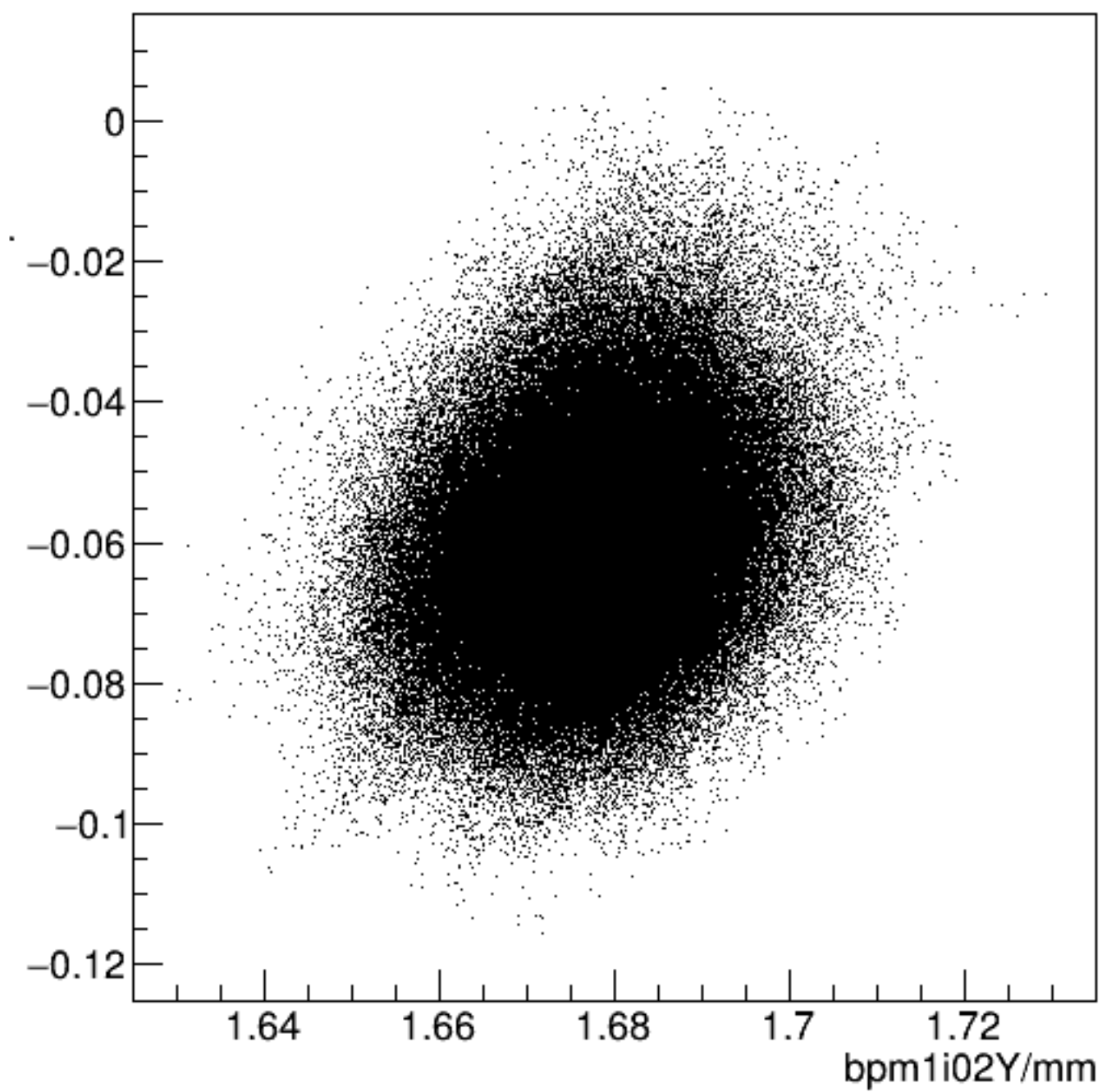




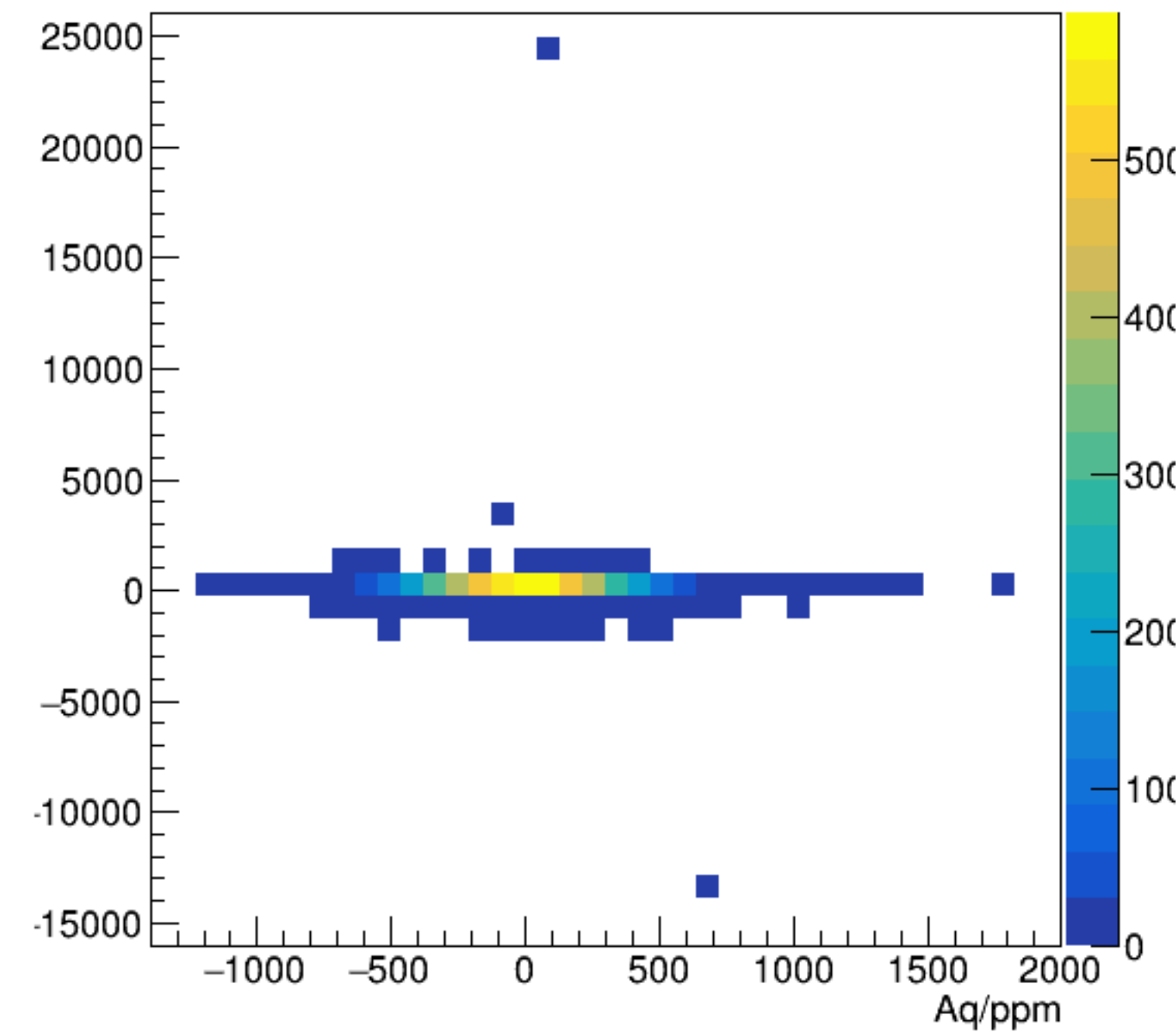
bpm1i02X/mm:bpm1i02Y/mm {ErrorFlag==0}



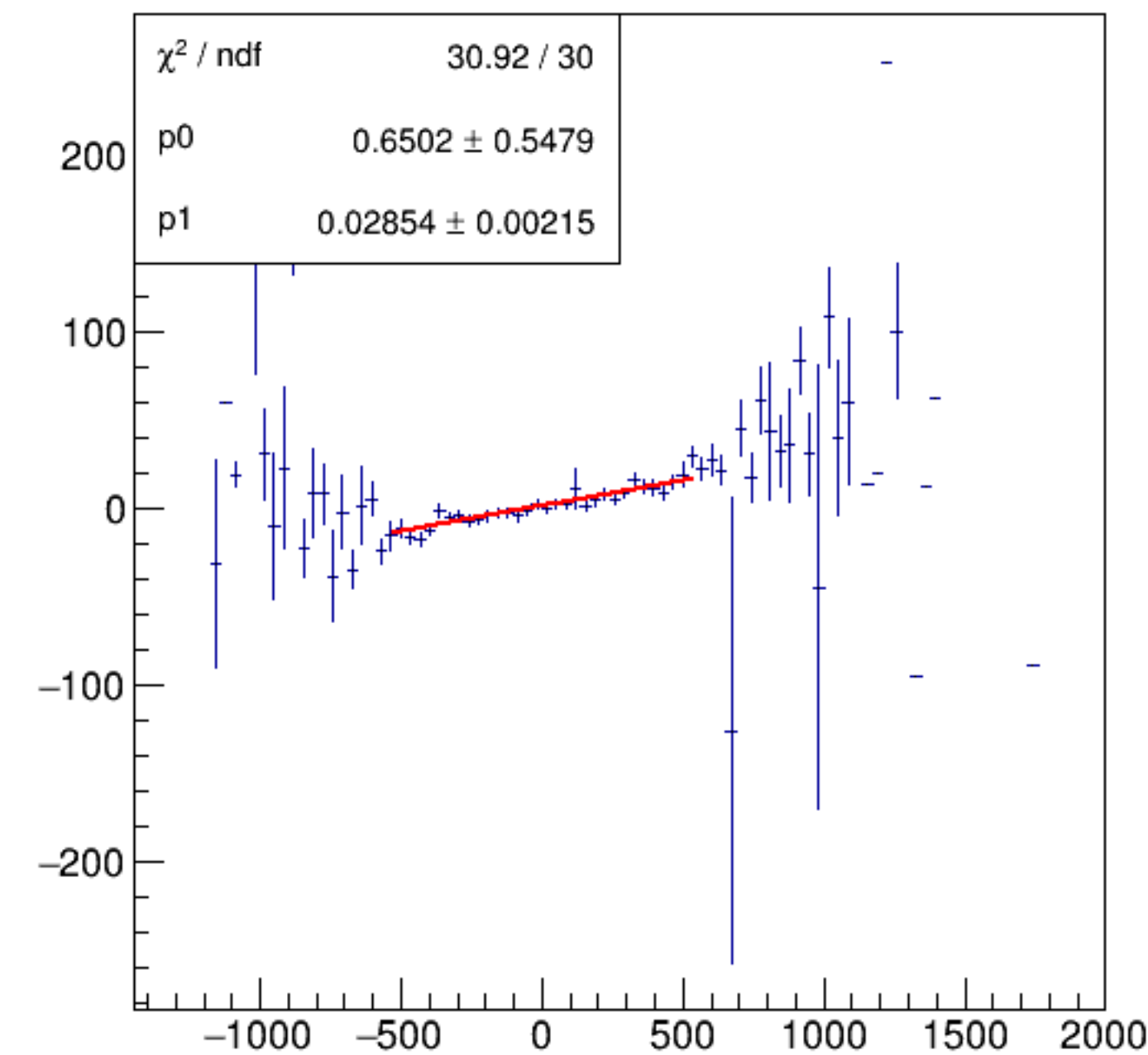
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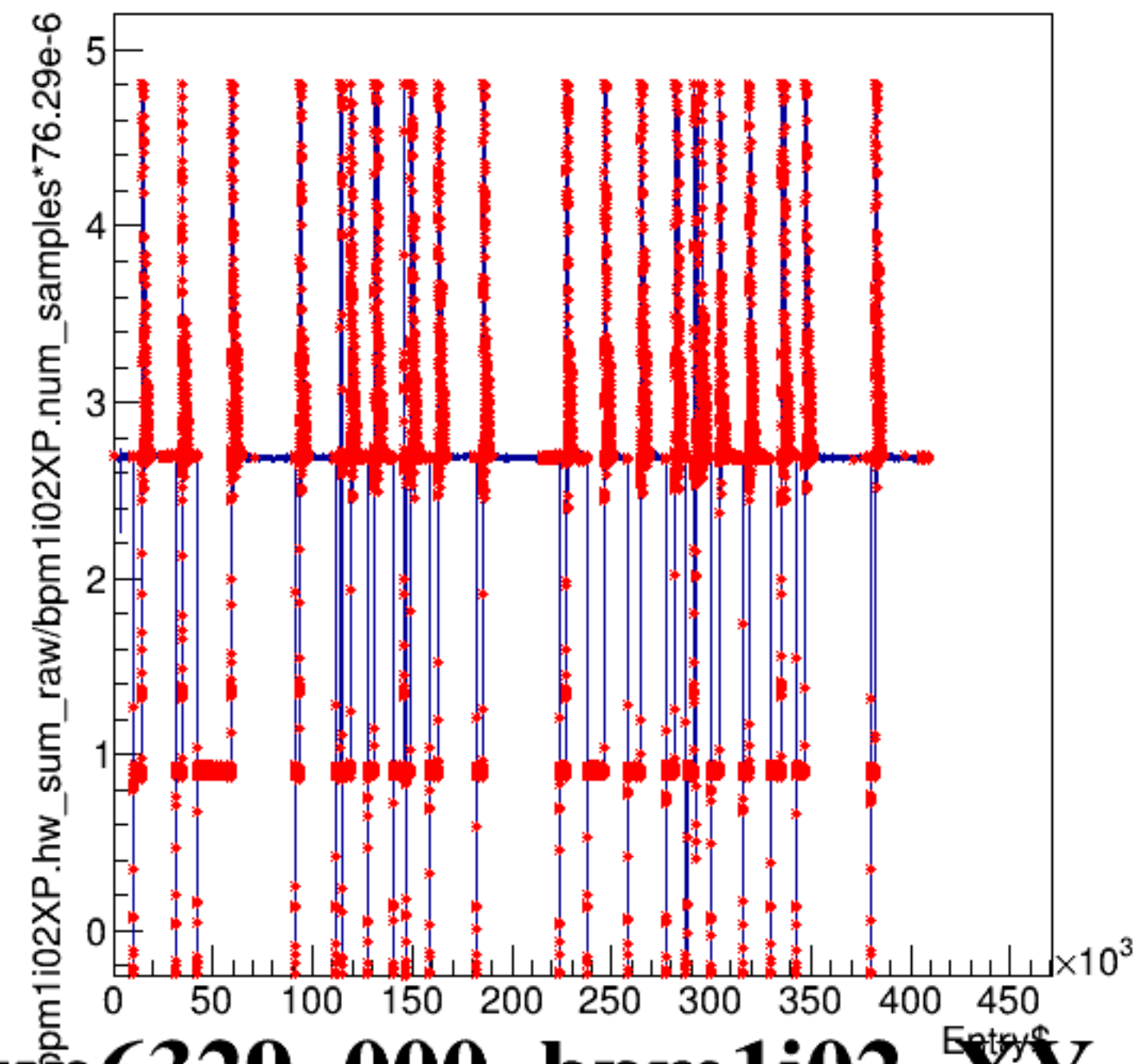
asym_bpm1i02WS/ppm:Aq/ppm {ErrorFlag==0}



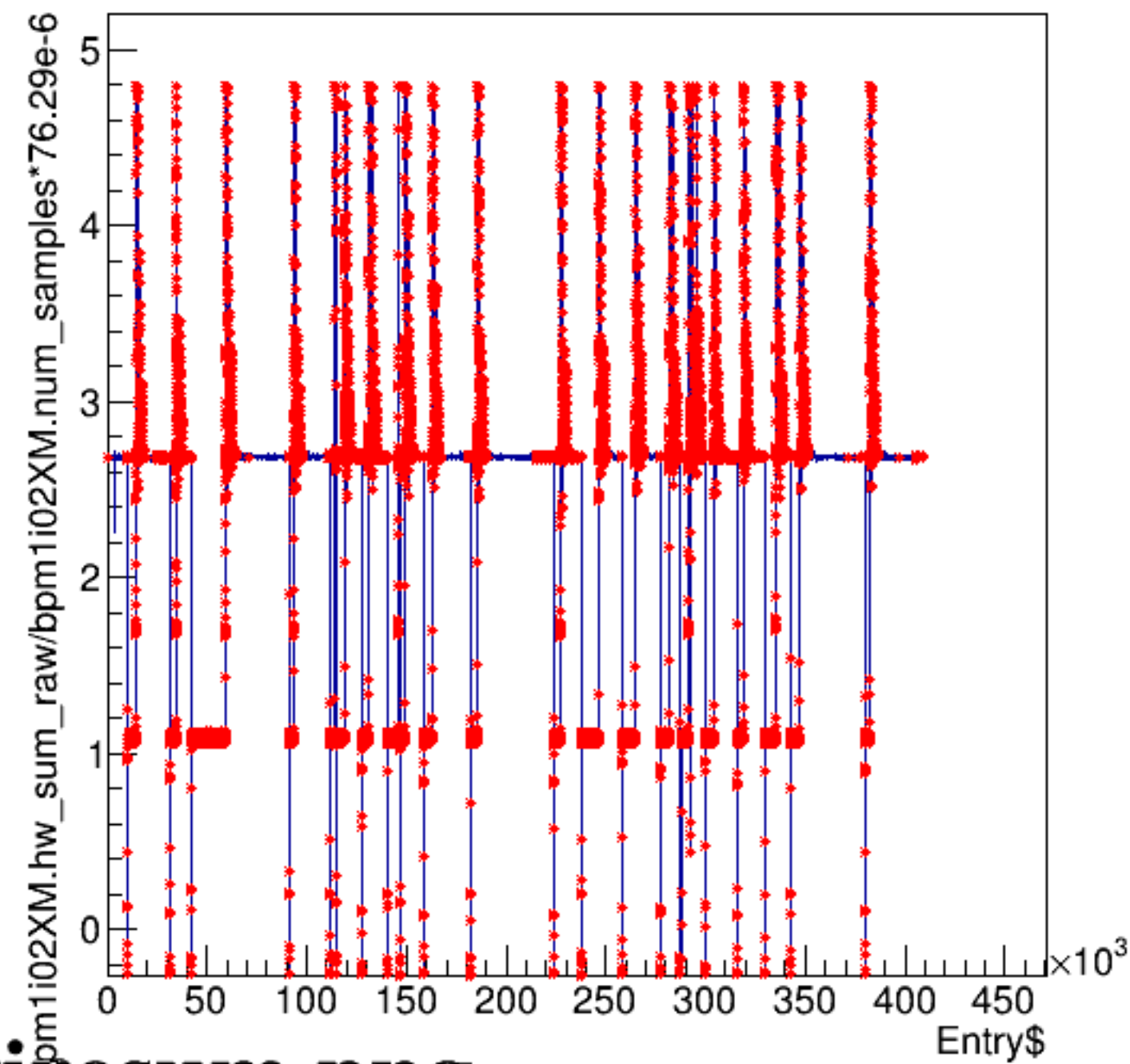
asym_bpm1i02WS/ppm:Aq/ppm {ErrorFlag==0}



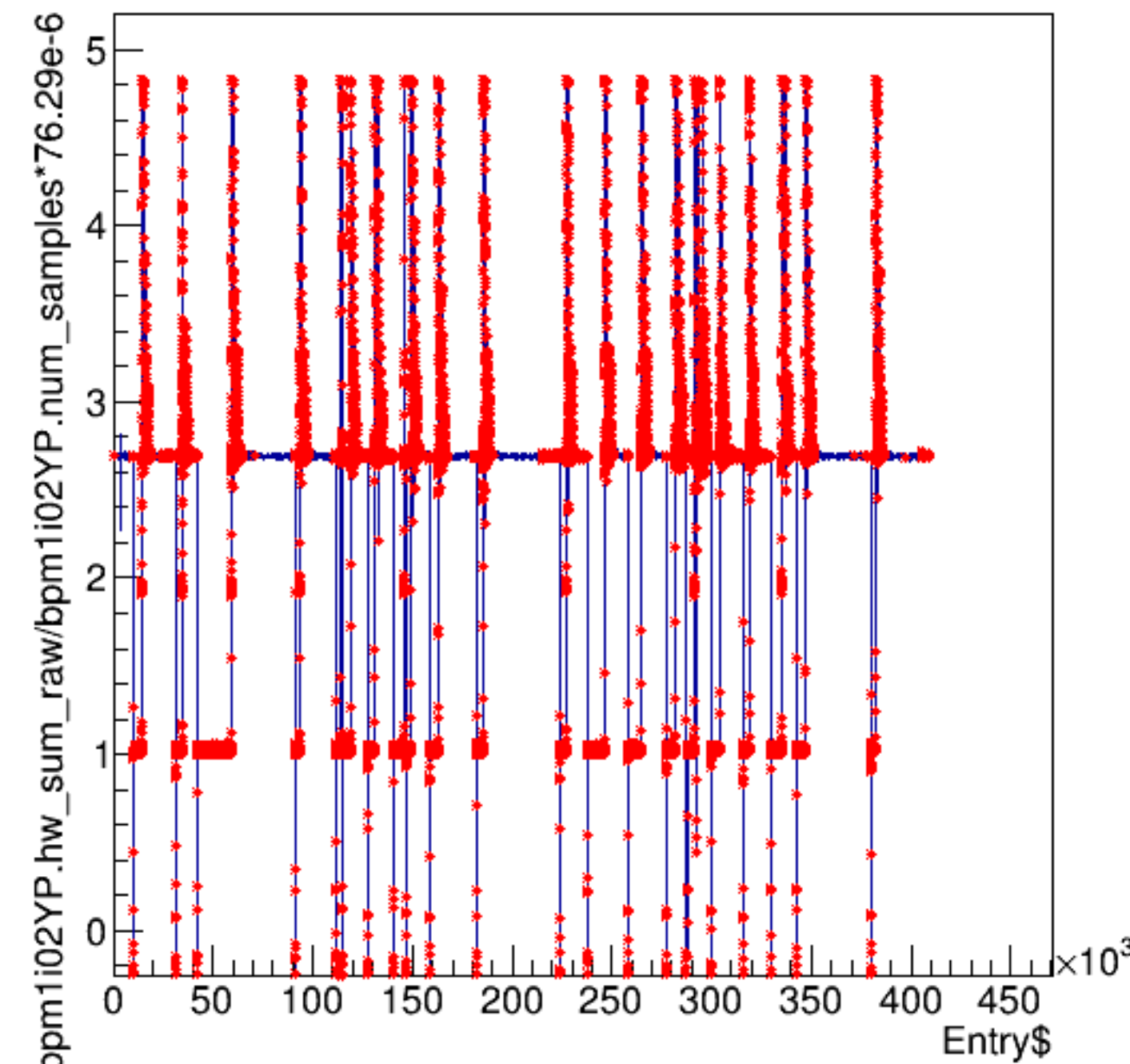
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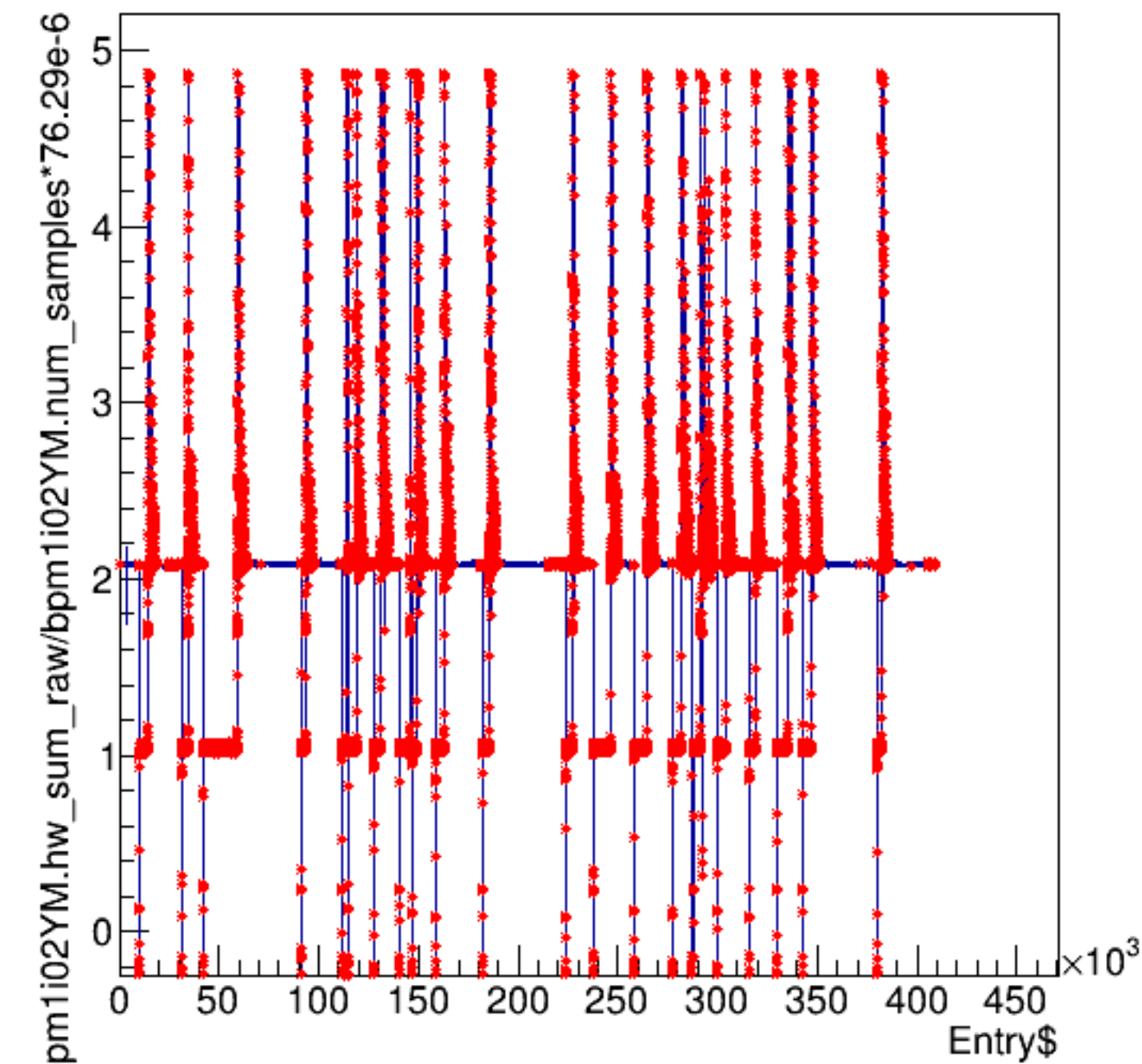
bpm1i02XM.hw_sum_raw/bpm1i02XM.num_samples*76.29e-6:Entry\$

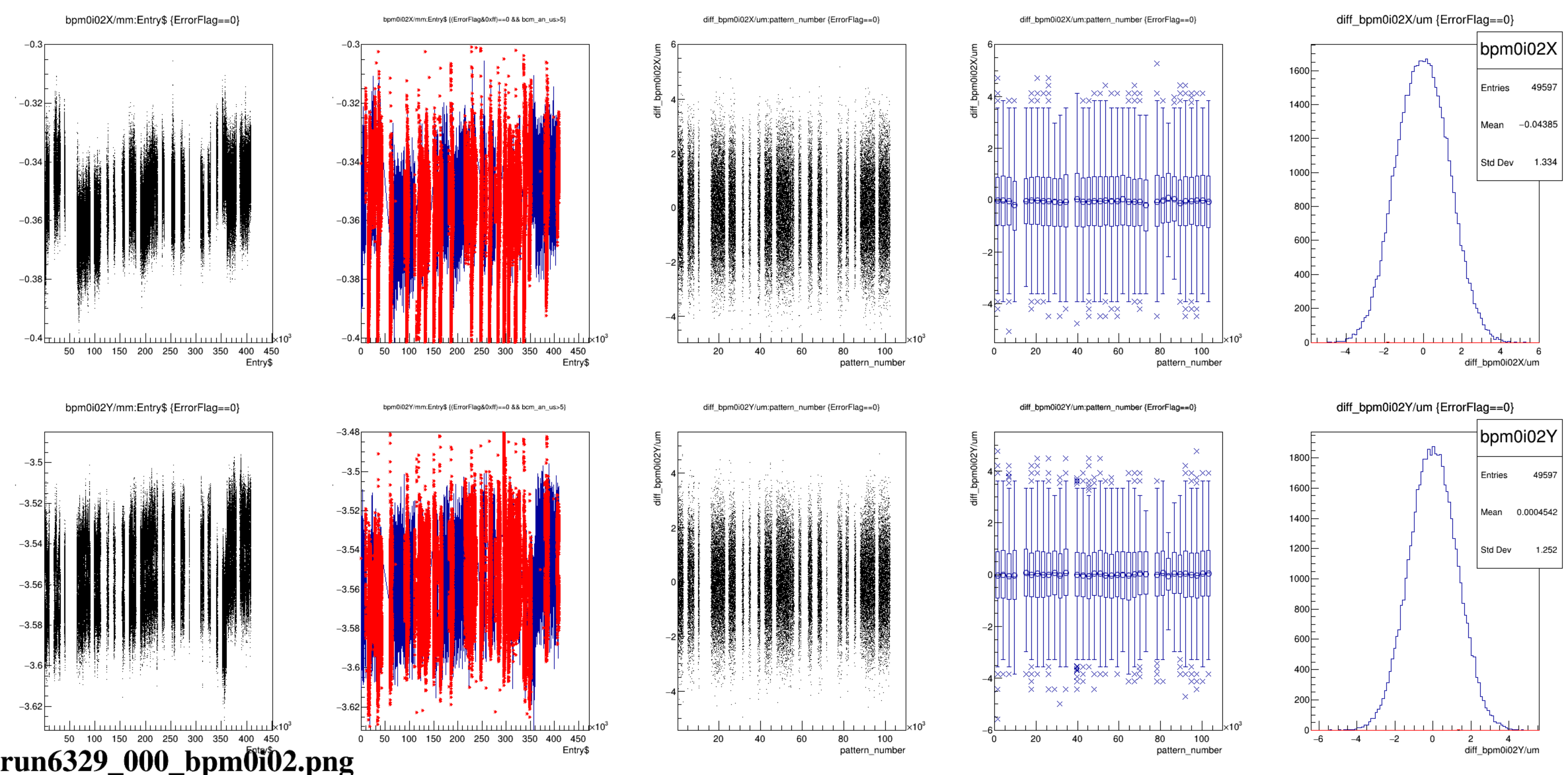


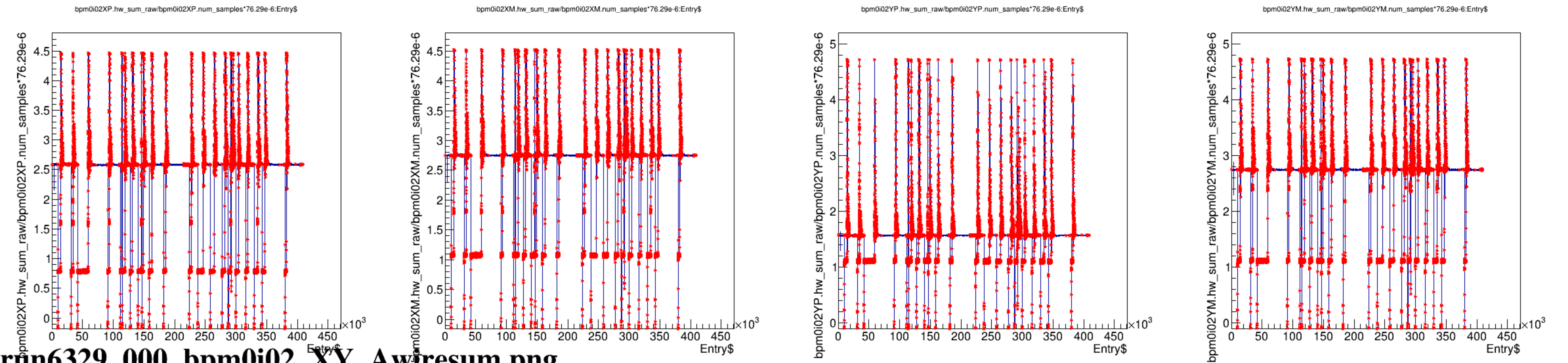
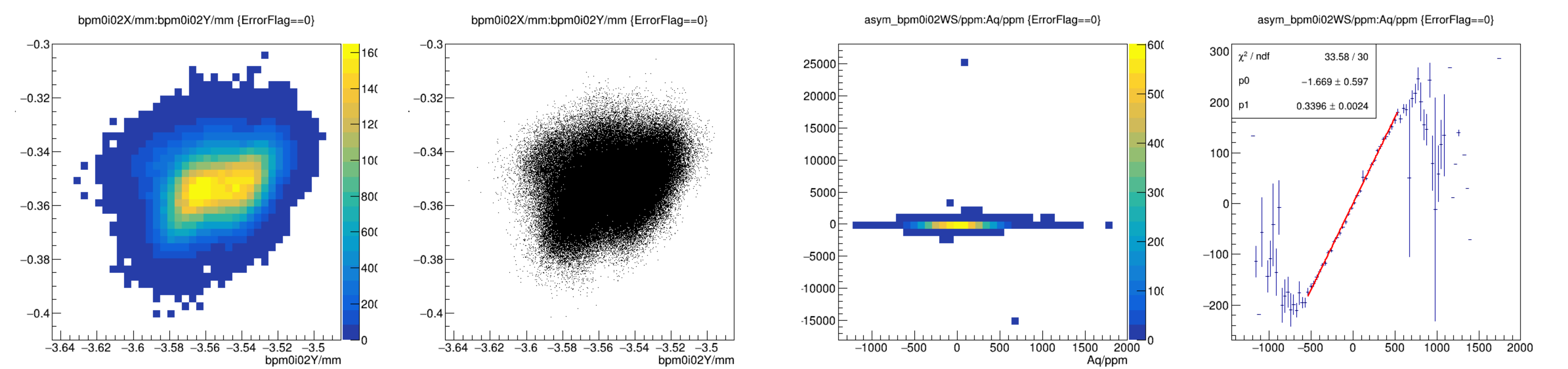
bpm1i02YP.hw_sum_raw/bpm1i02YP.num_samples*76.29e-6:Entry\$

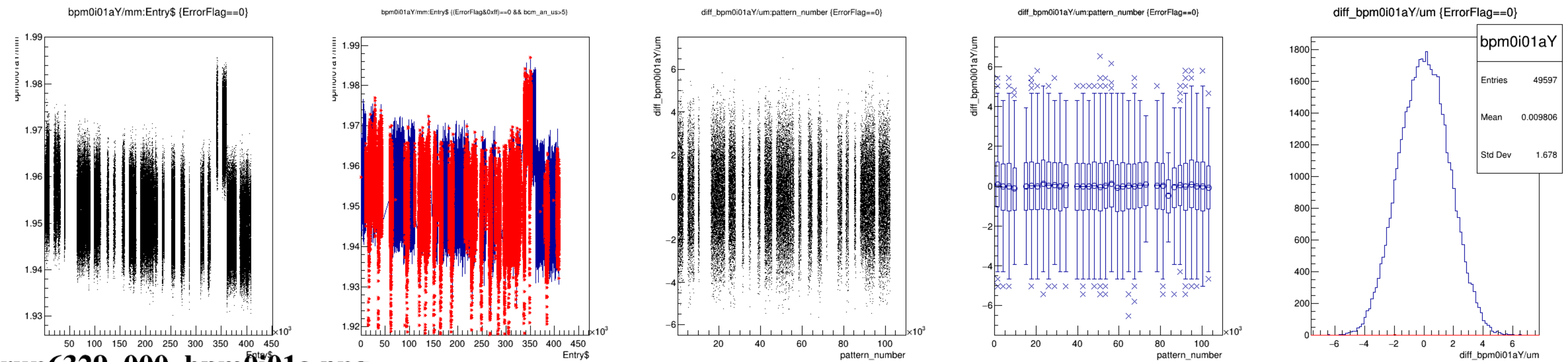
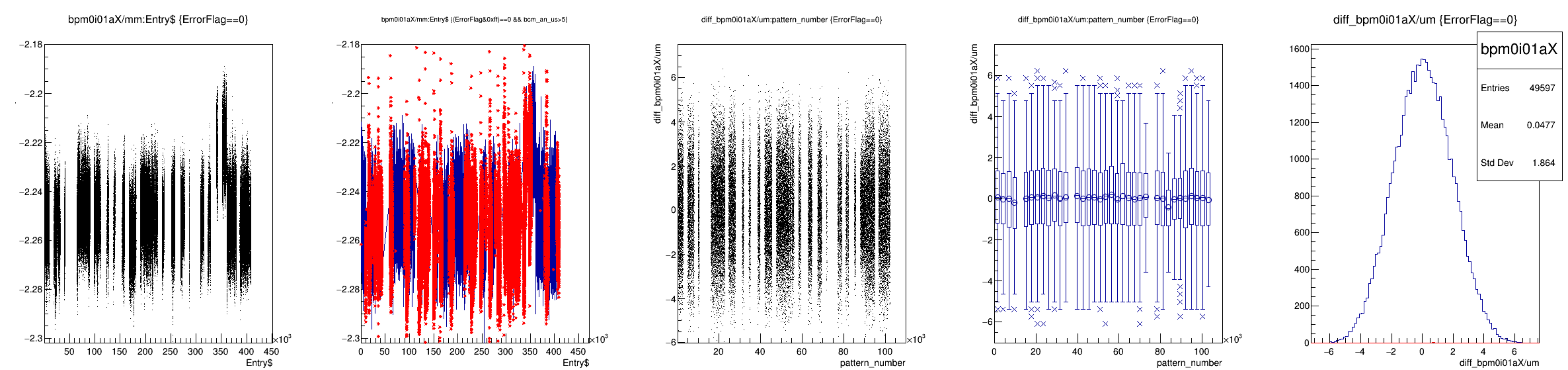


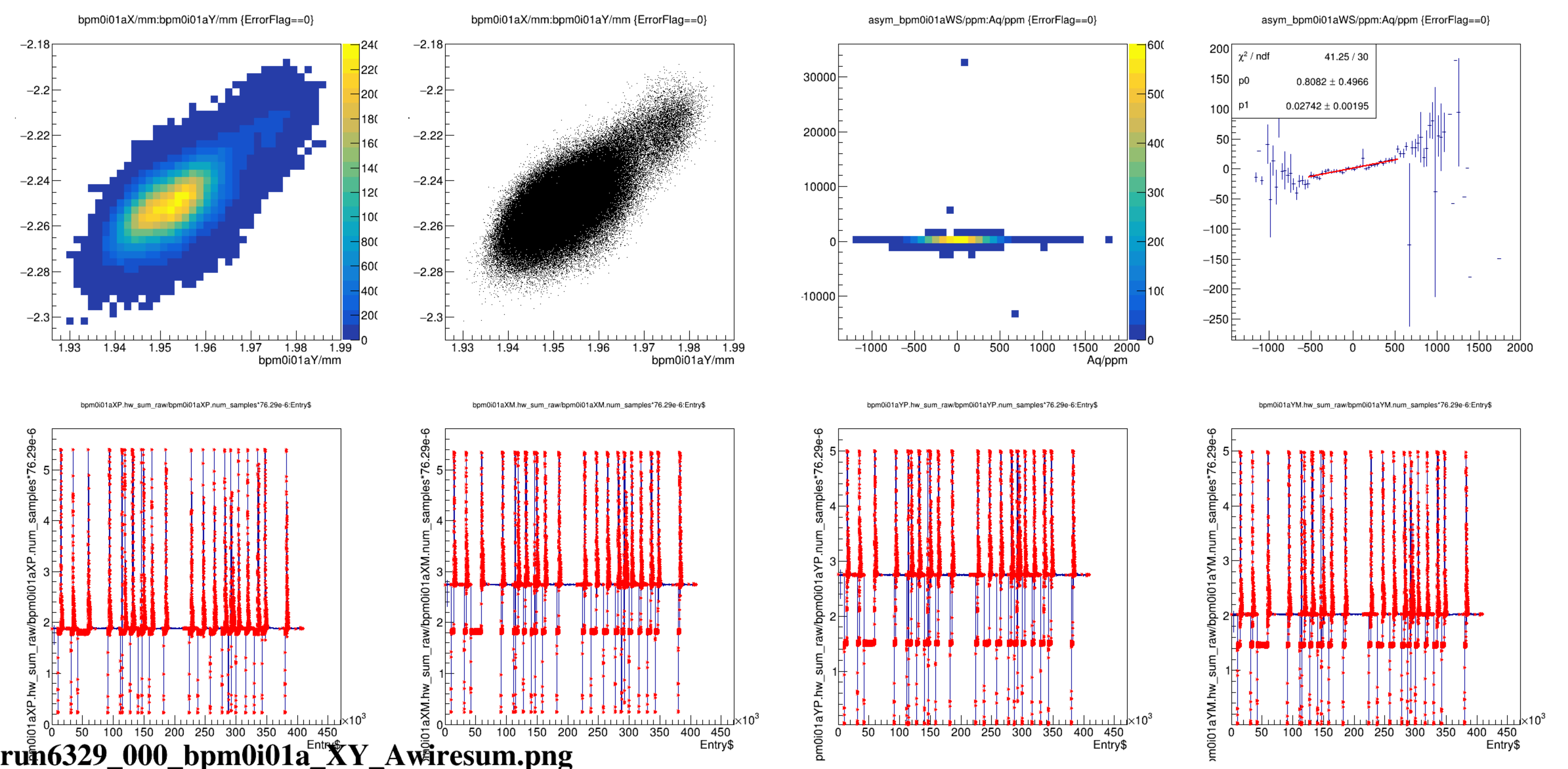
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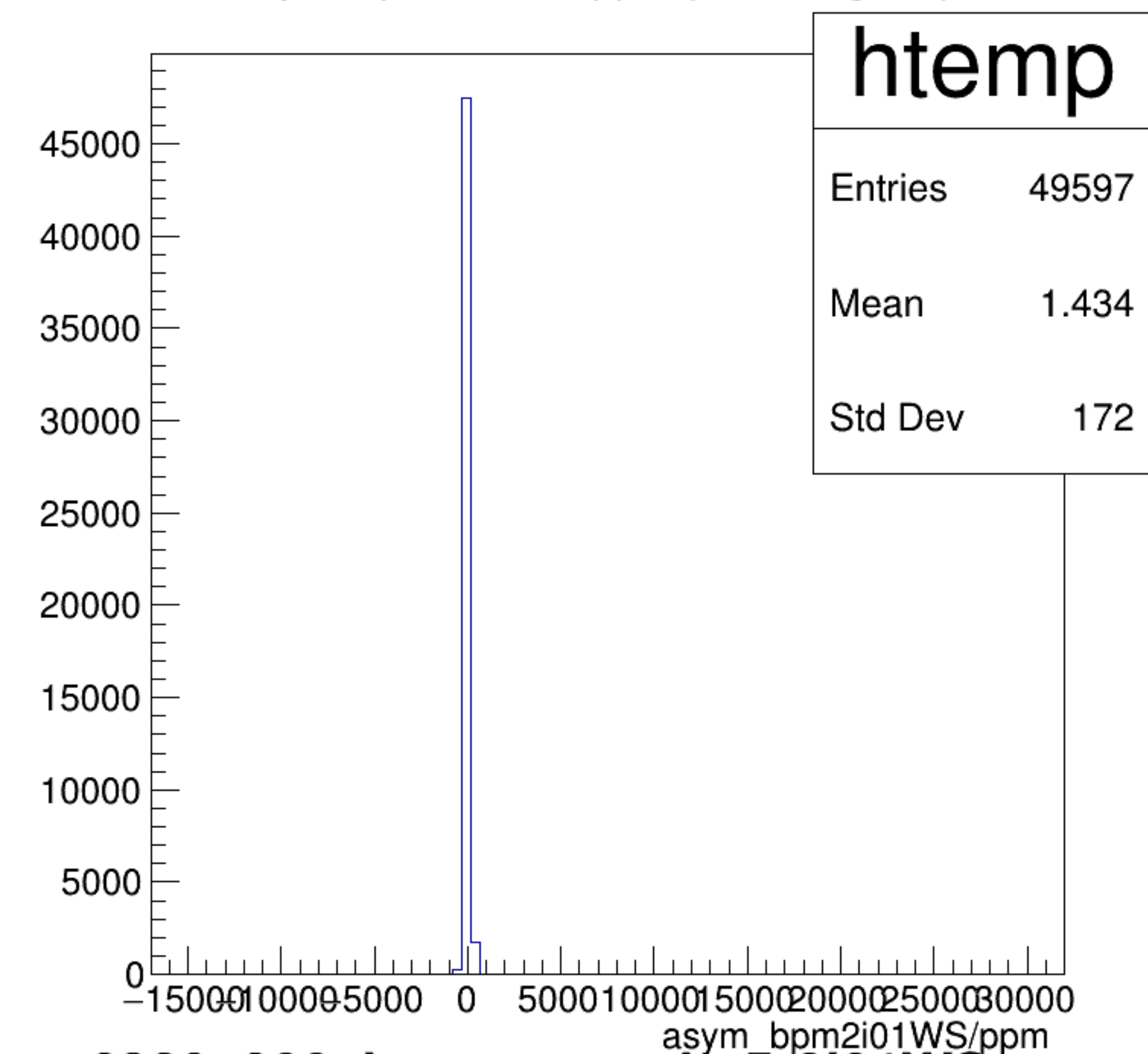






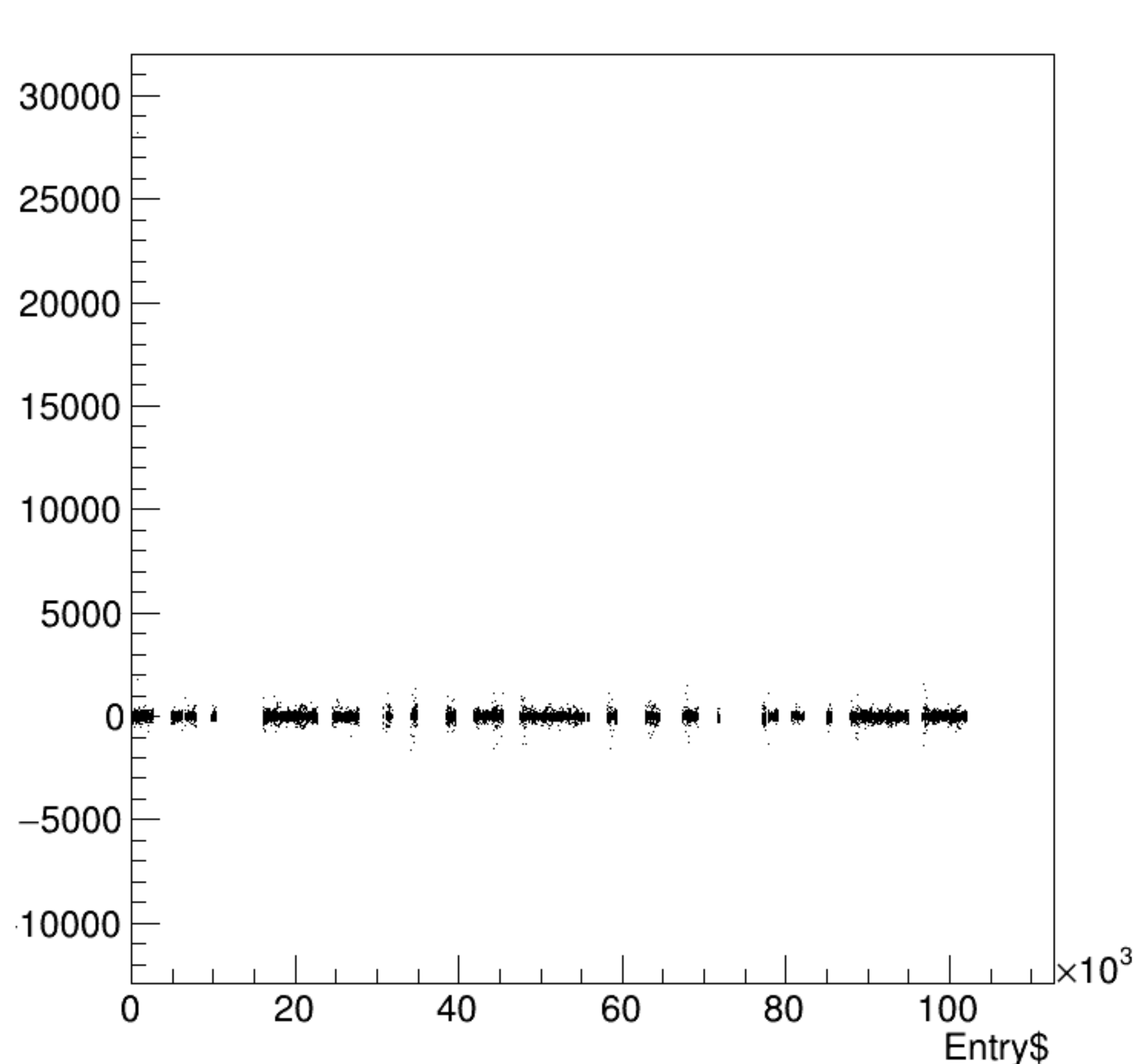


asym_bpm2i01WS/ppm {ErrorFlag==0}

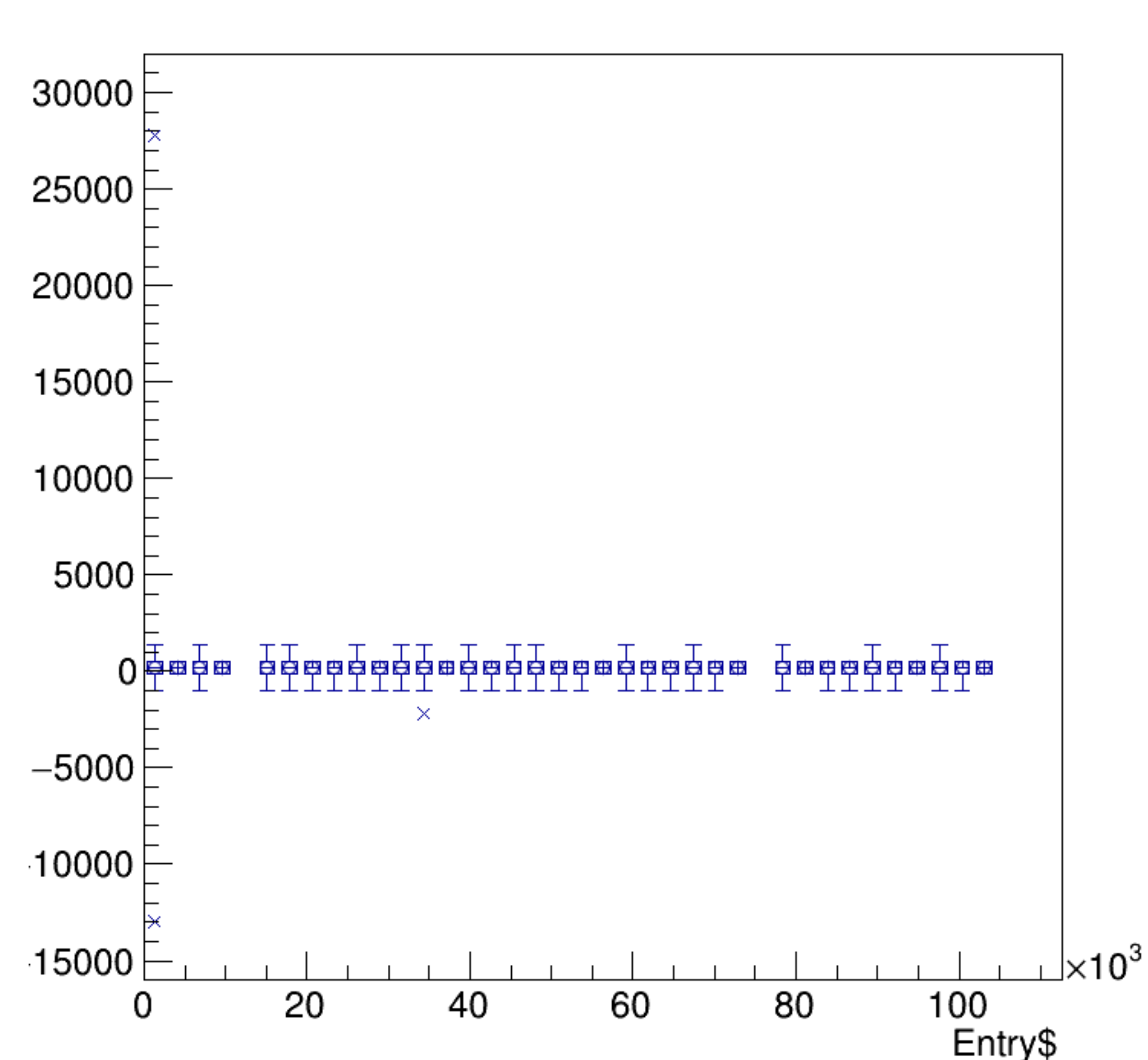


run6329_000_bpm_asym_bpm2i01WS.png

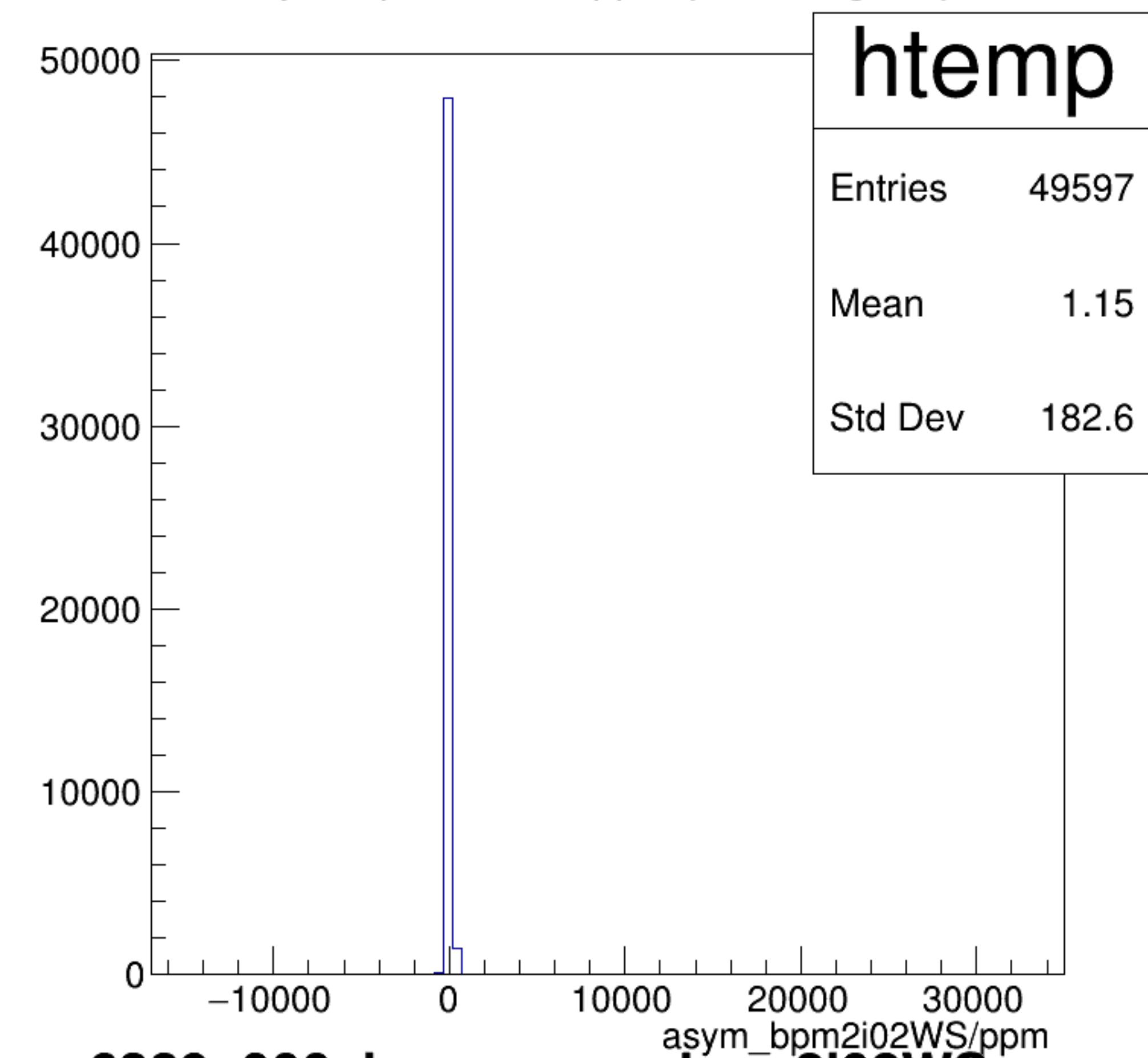
asym_bpm2i01WS/ppm:Entry\$ {ErrorFlag==0}



asym_bpm2i01WS/ppm:Entry\$ {ErrorFlag==0}

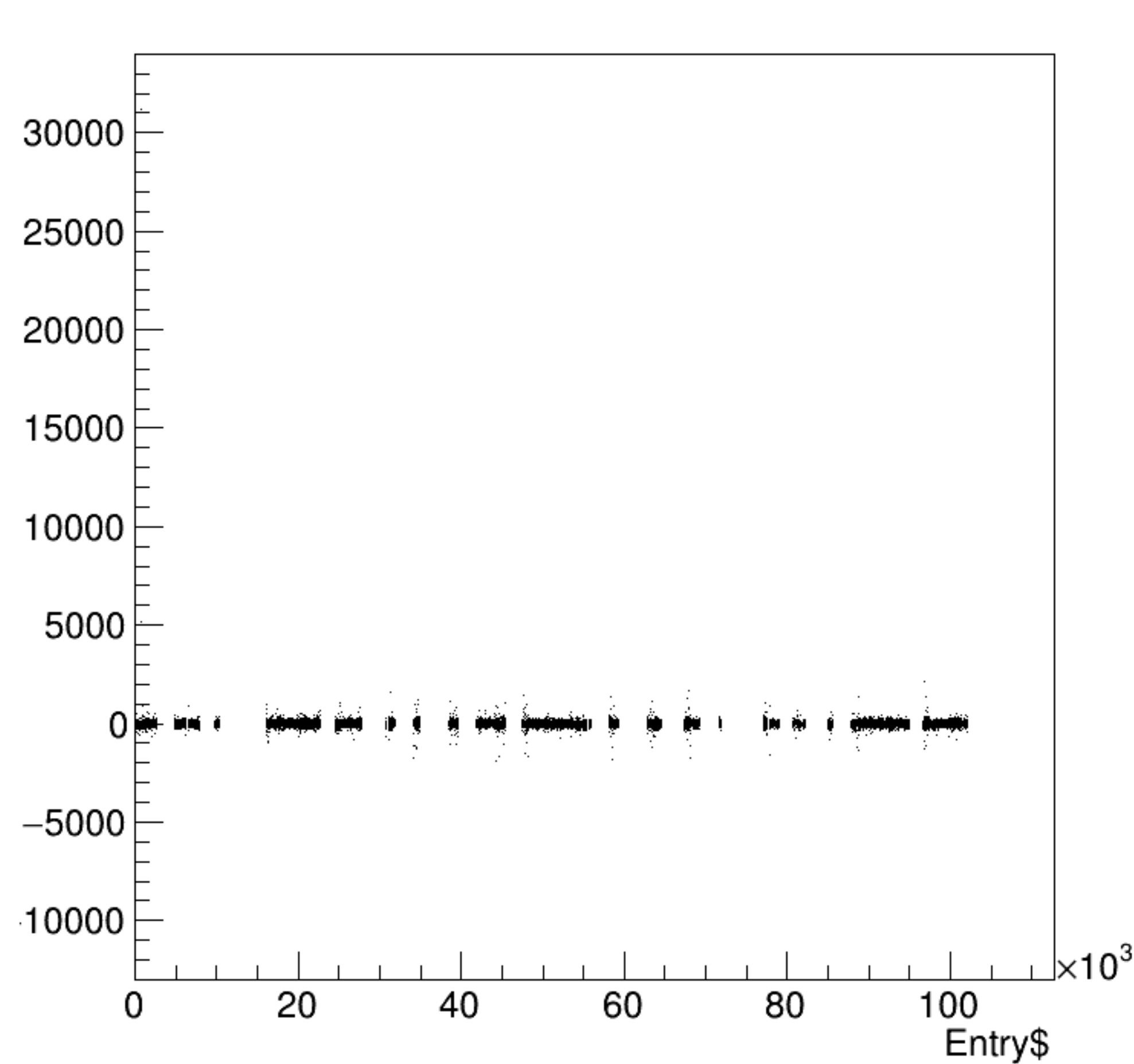


asym_bpm2i02WS/ppm {ErrorFlag==0}

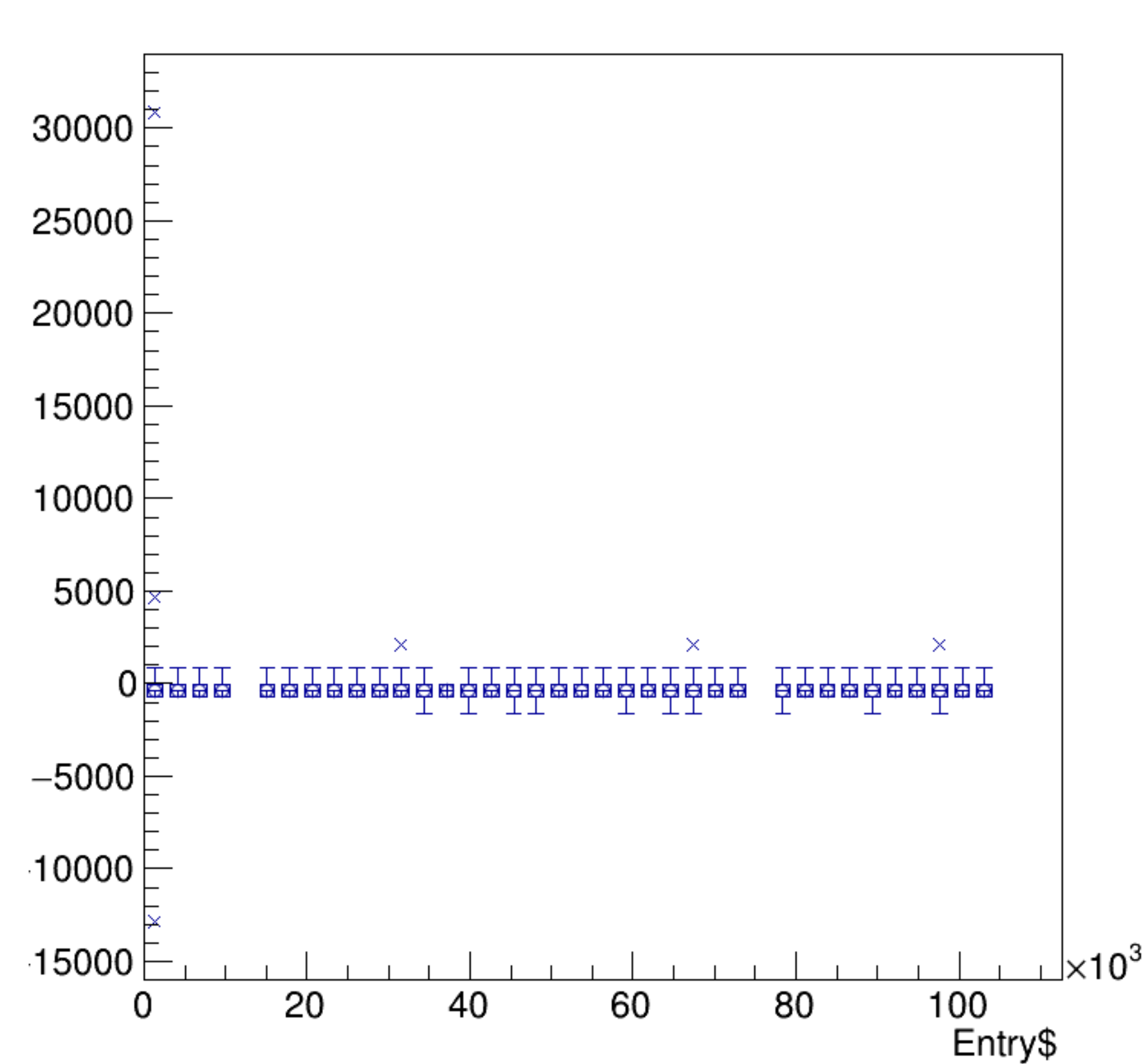


run6329_000_bpm_asym_bpm2i02WS.png

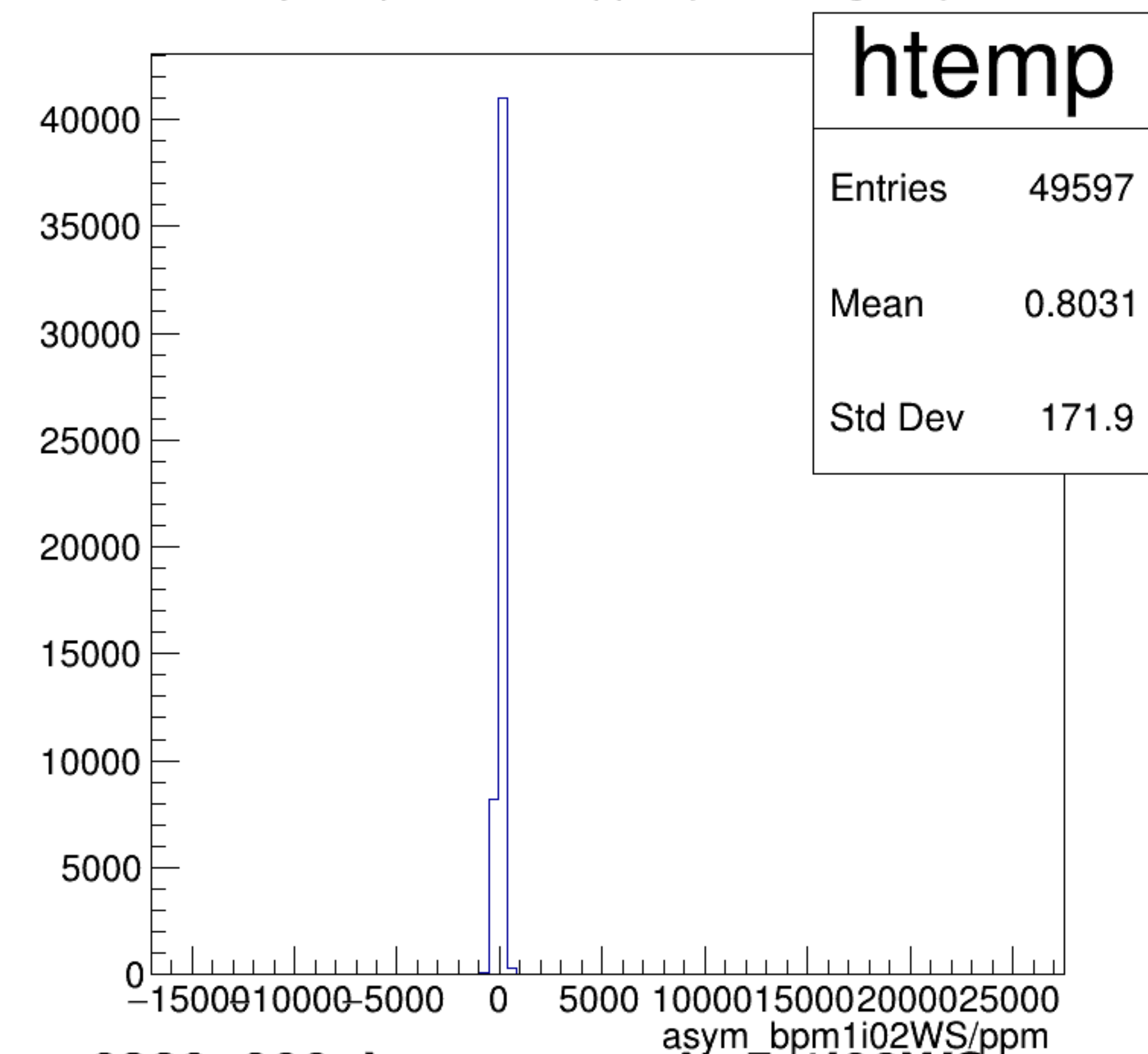
asym_bpm2i02WS/ppm:Entry\$ {ErrorFlag==0}



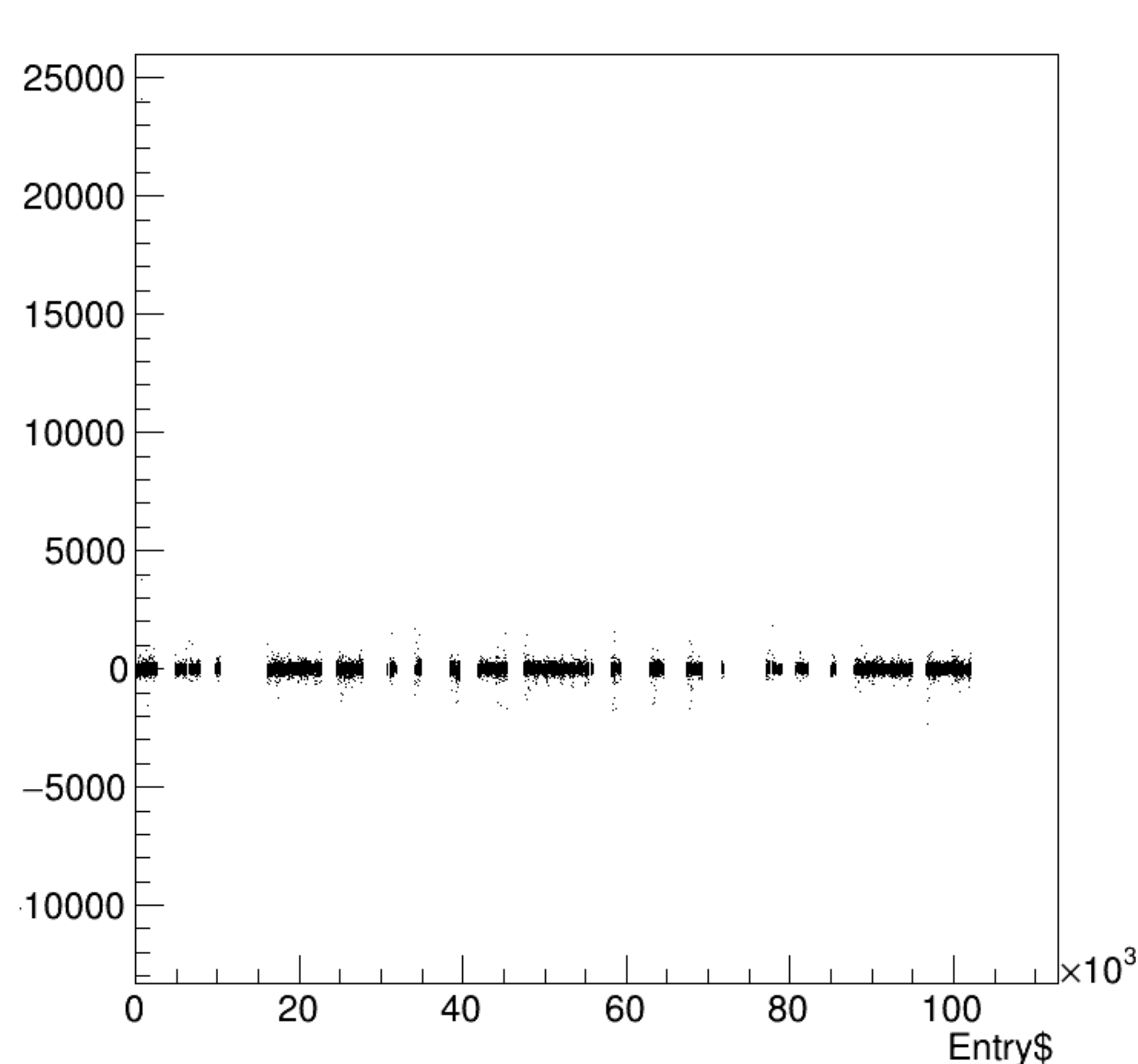
asym_bpm2i02WS/ppm:Entry\$ {ErrorFlag==0}



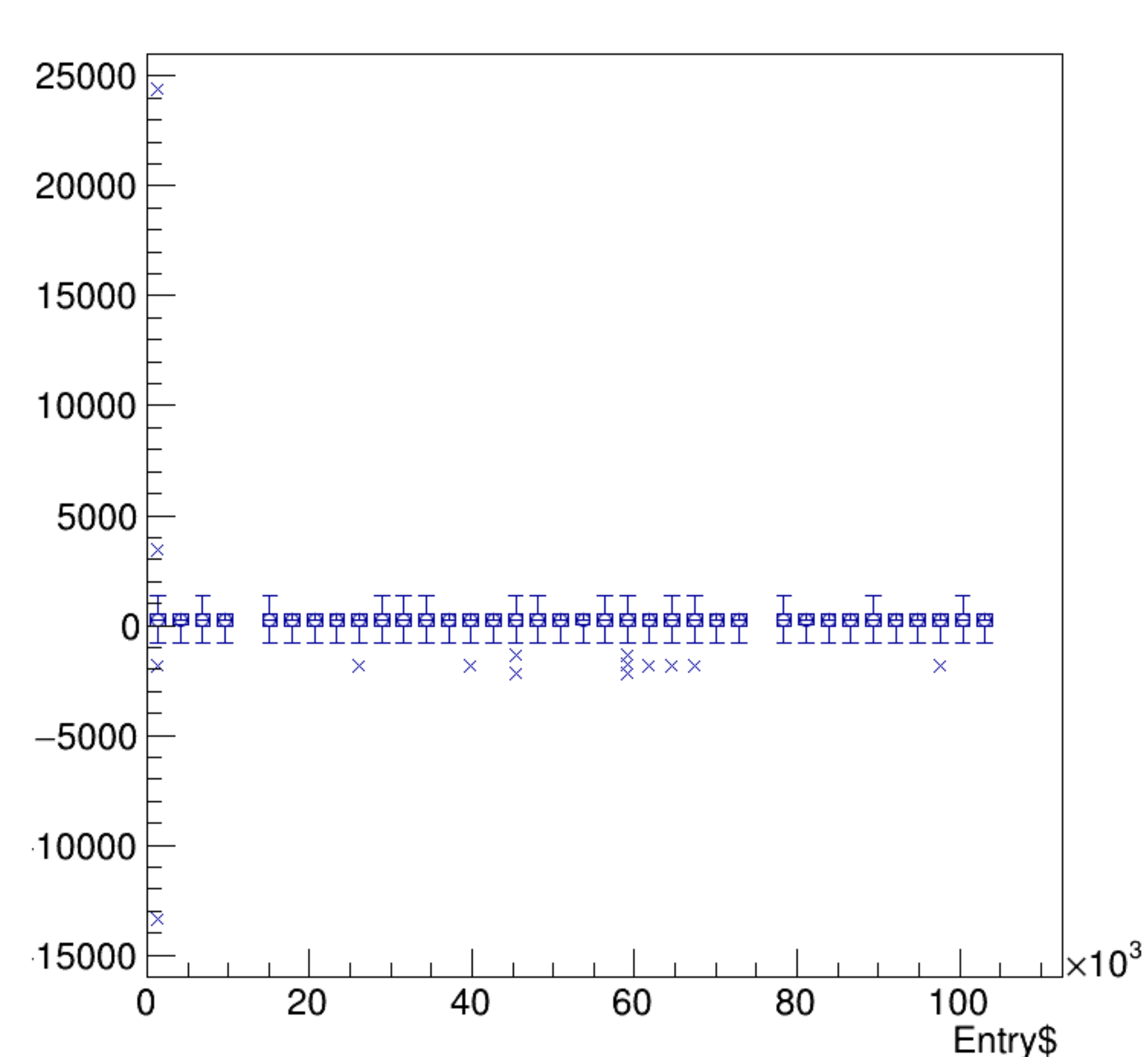
asym_bpm1i02WS/ppm {ErrorFlag==0}



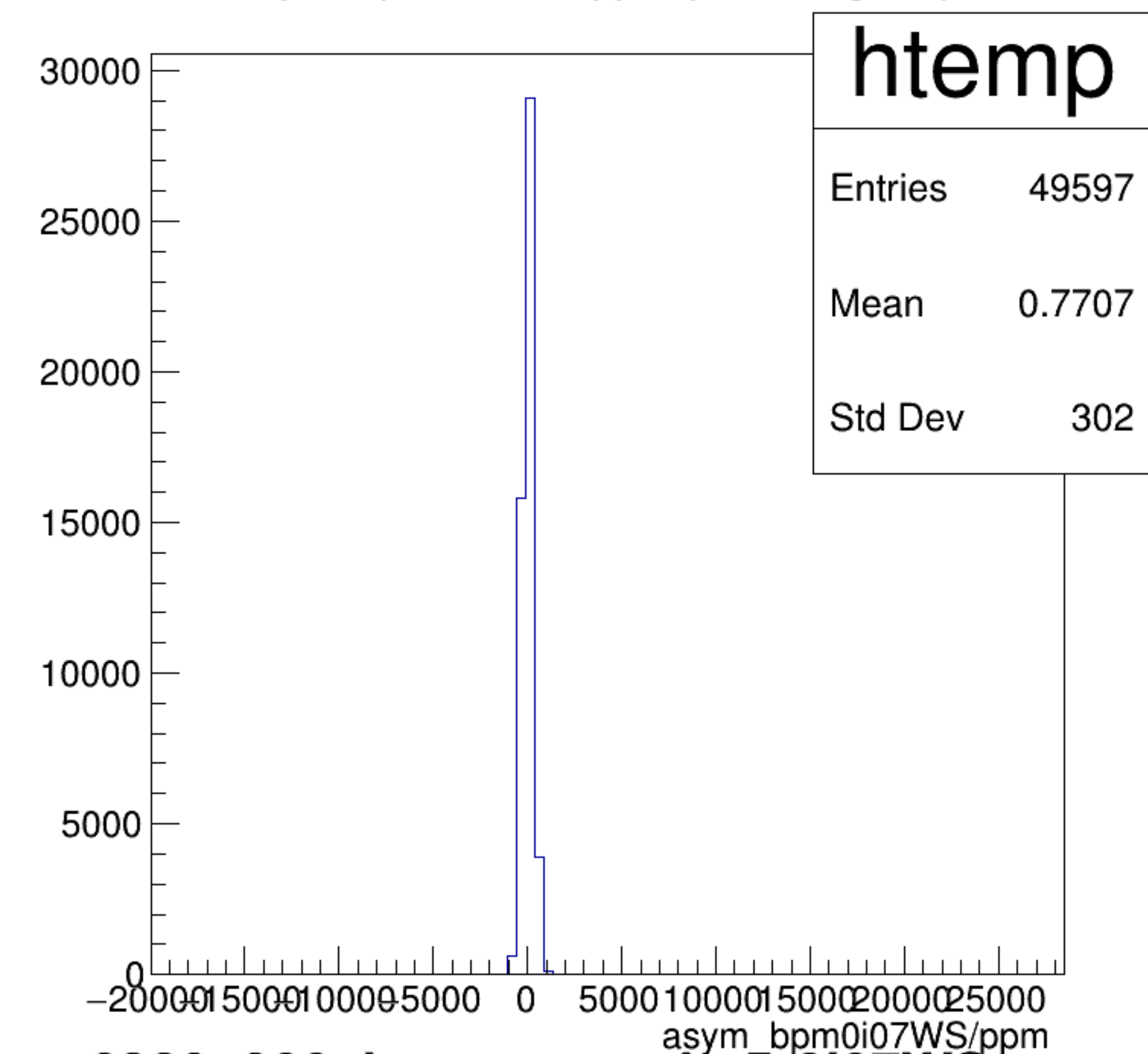
asym_bpm1i02WS/ppm:Entry\$ {ErrorFlag==0}



asym_bpm1i02WS/ppm:Entry\$ {ErrorFlag==0}

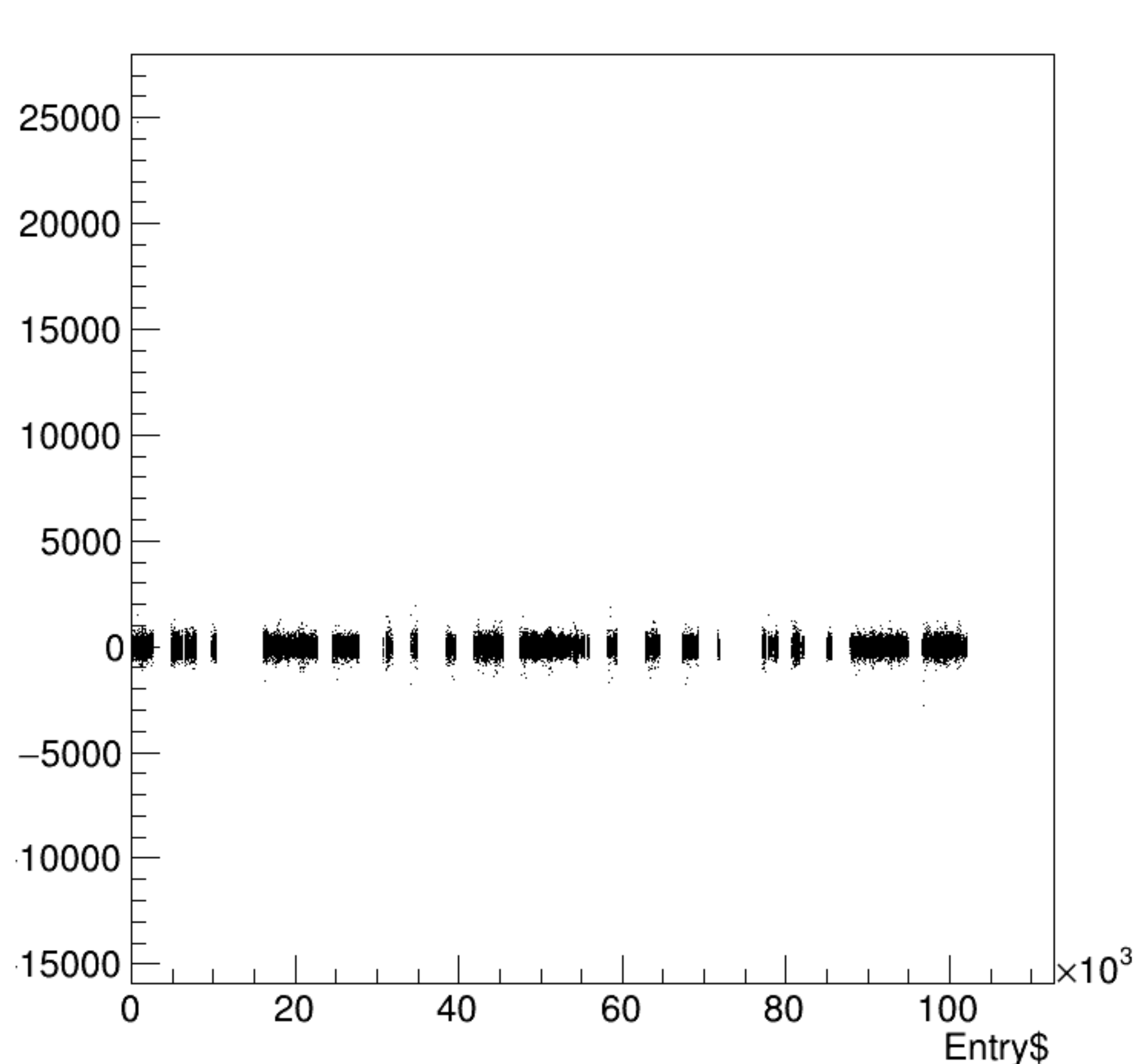


asym_bpm0i07WS/ppm {ErrorFlag==0}

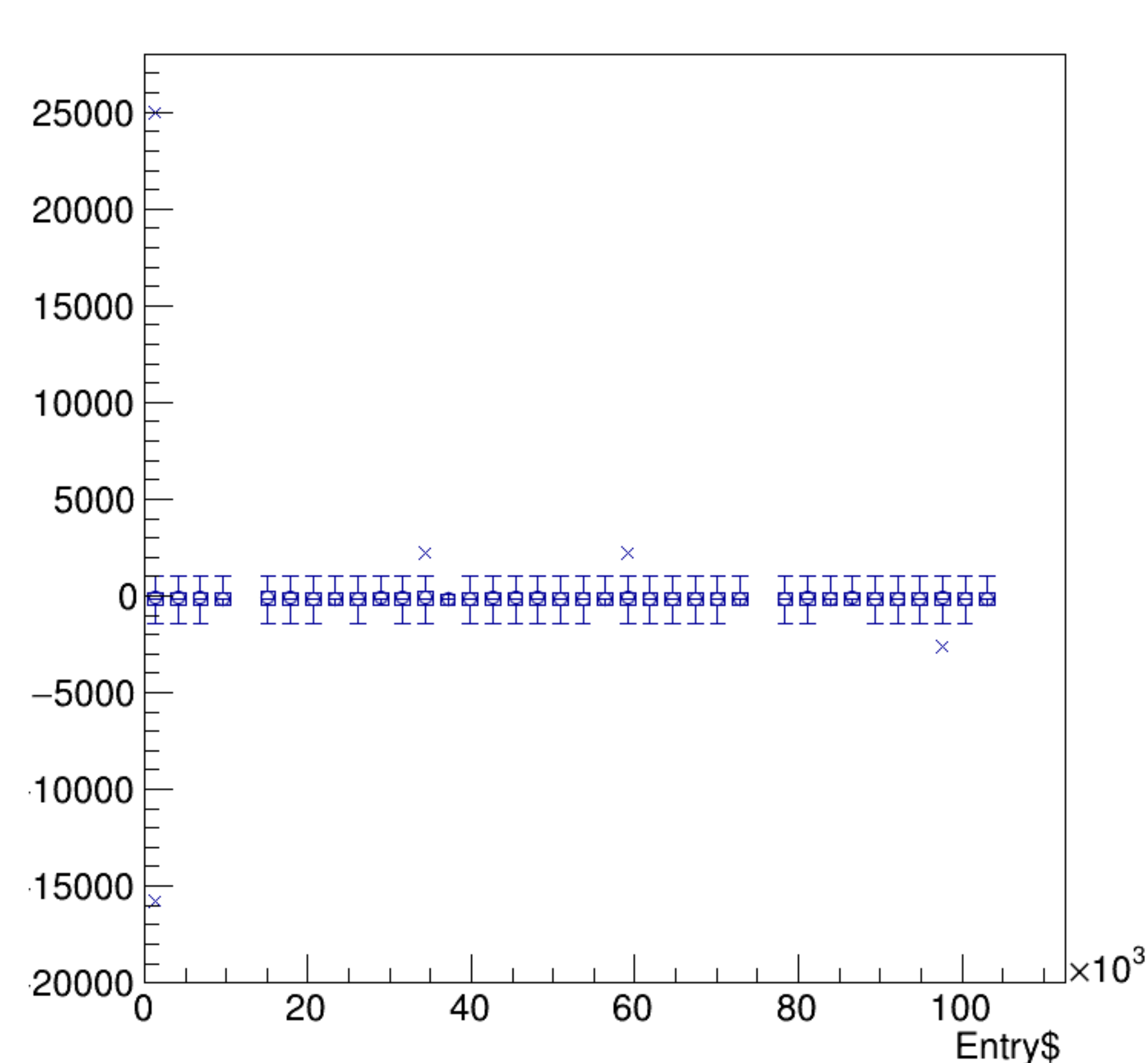


run6329_000_bpm_asym_bpm0i07WS.png

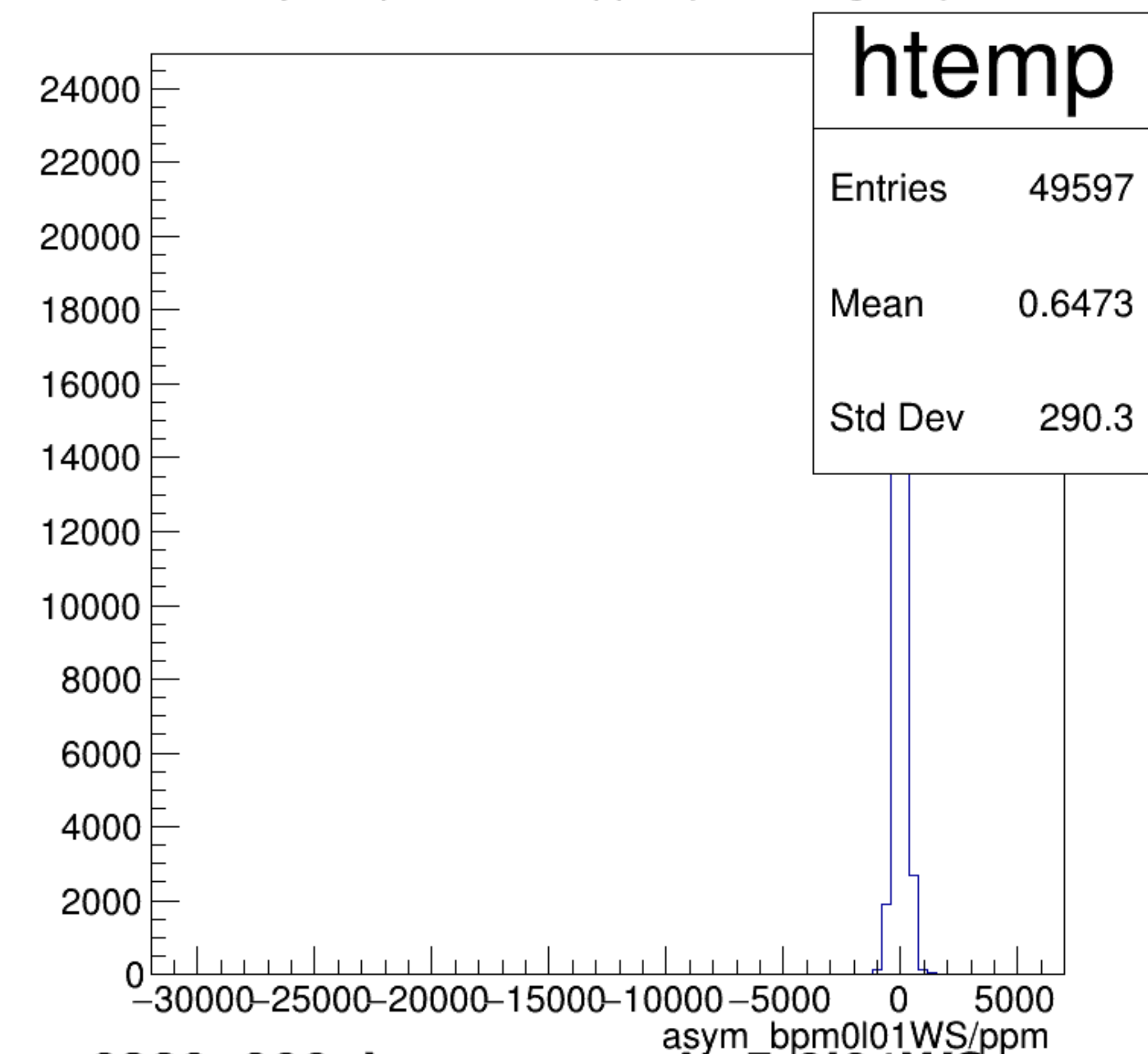
asym_bpm0i07WS/ppm:Entry\$ {ErrorFlag==0}



asym_bpm0i07WS/ppm:Entry\$ {ErrorFlag==0}

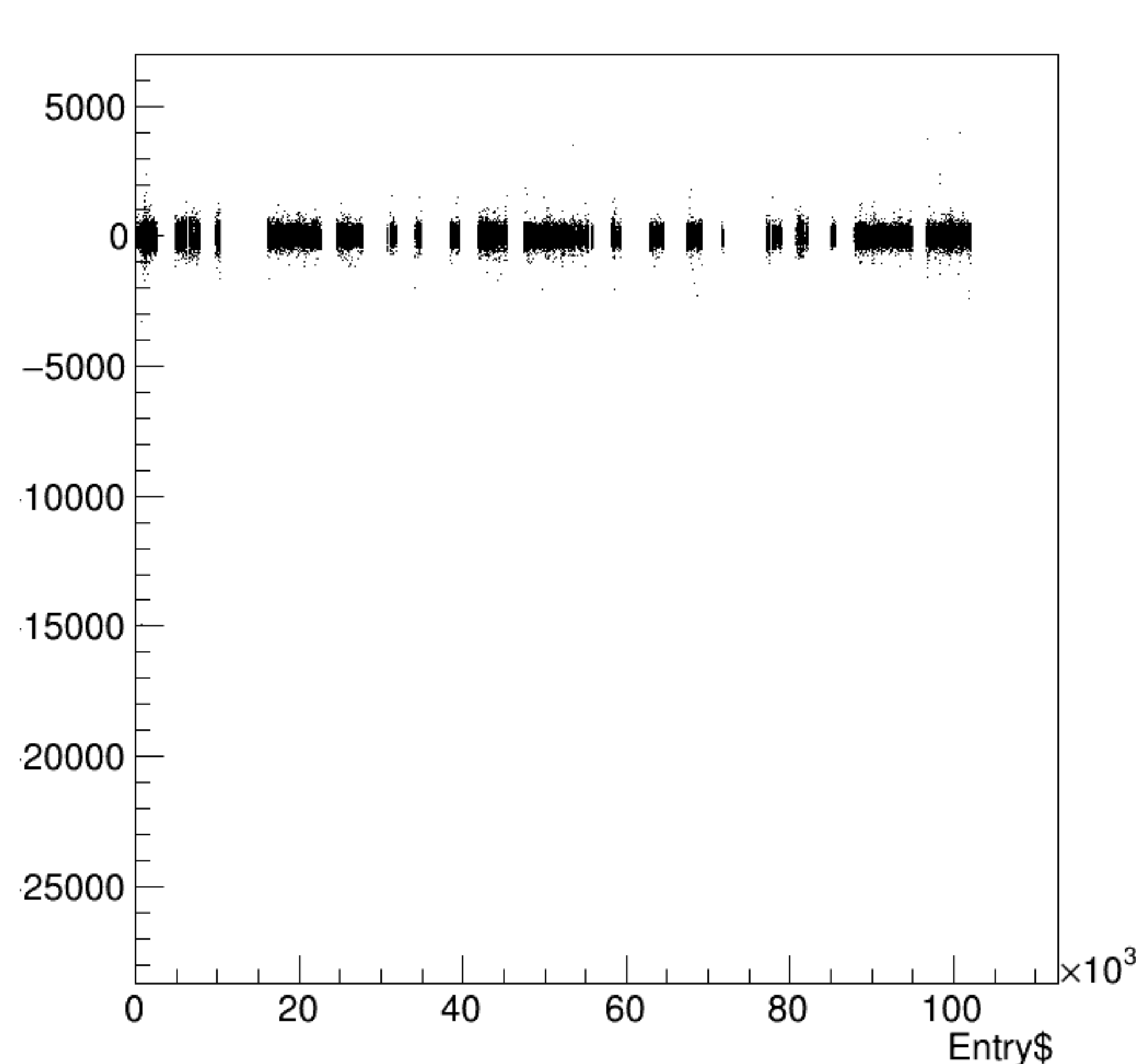


asym_bpm0l01WS/ppm {ErrorFlag==0}

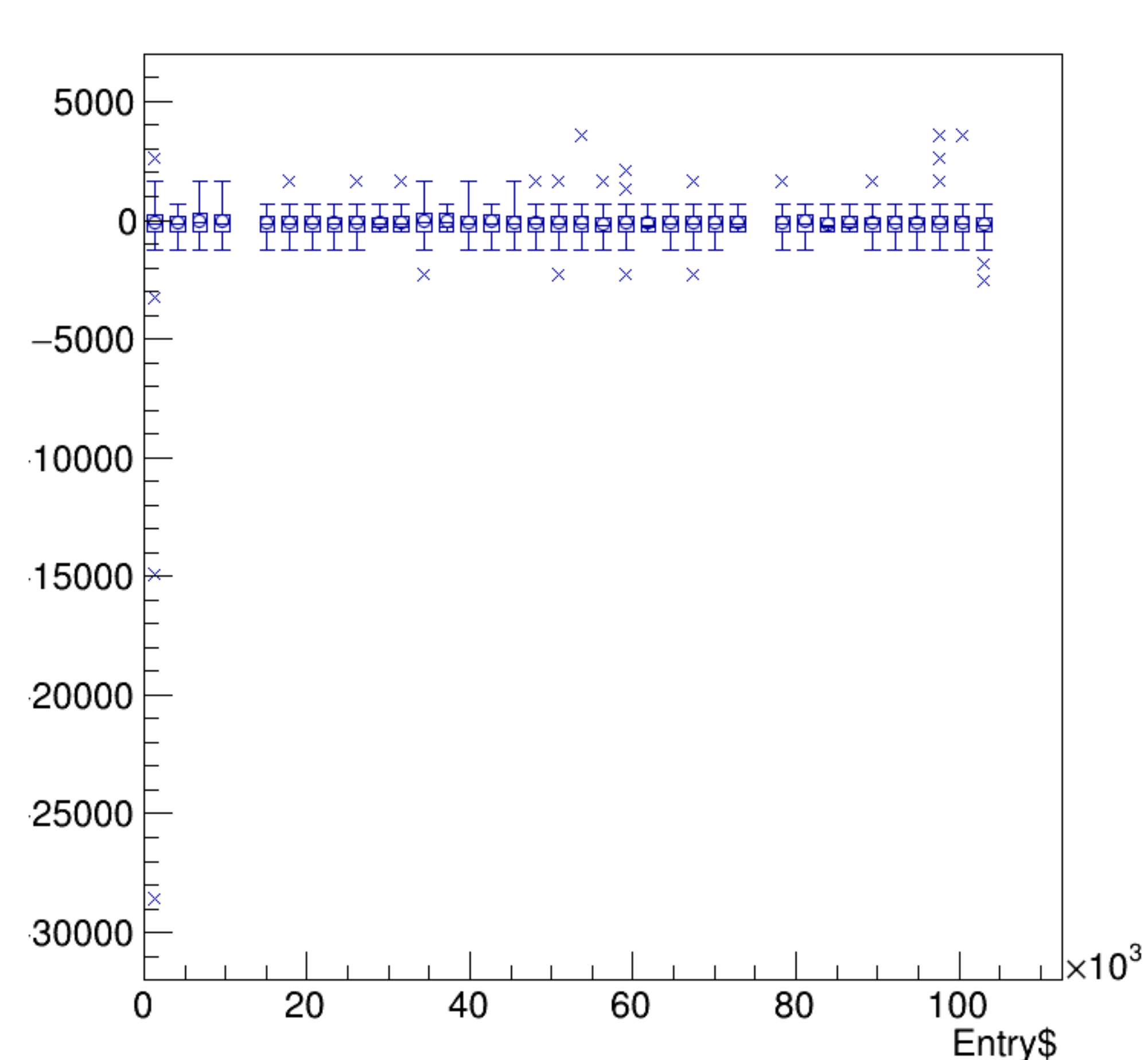


run6329_000_bpm_asym_bpm0l01WS.png

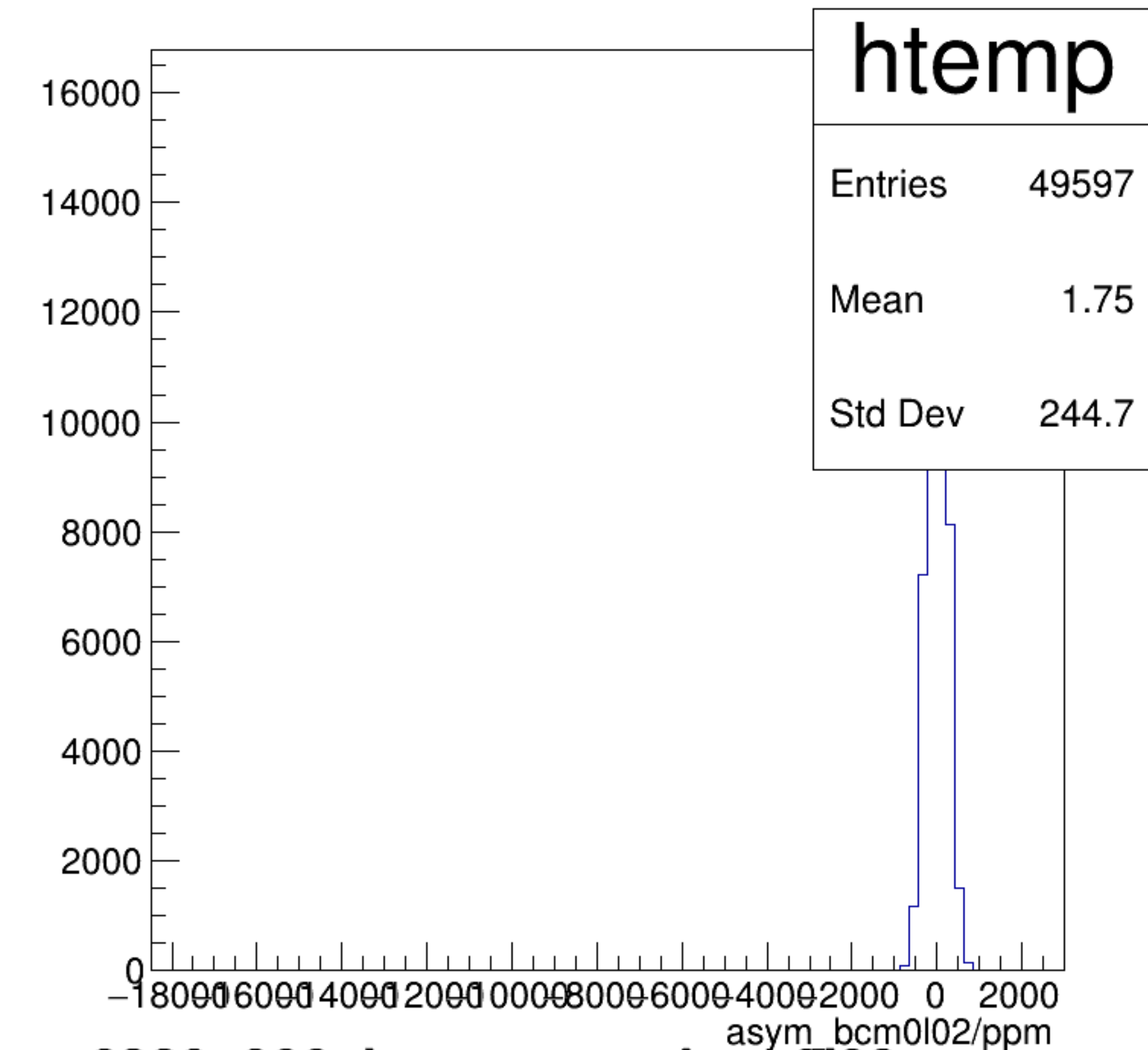
asym_bpm0l01WS/ppm:Entry\$ {ErrorFlag==0}



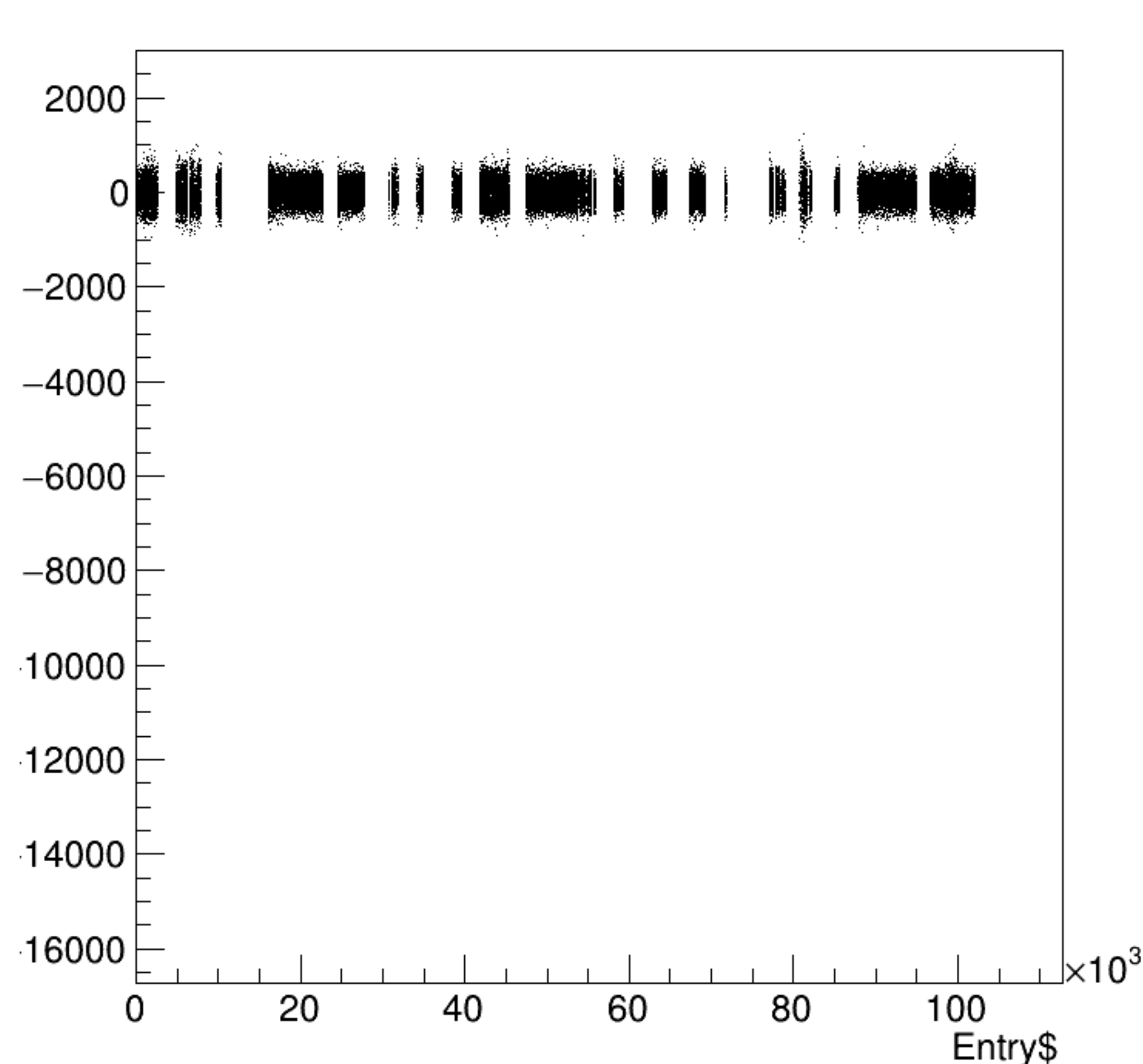
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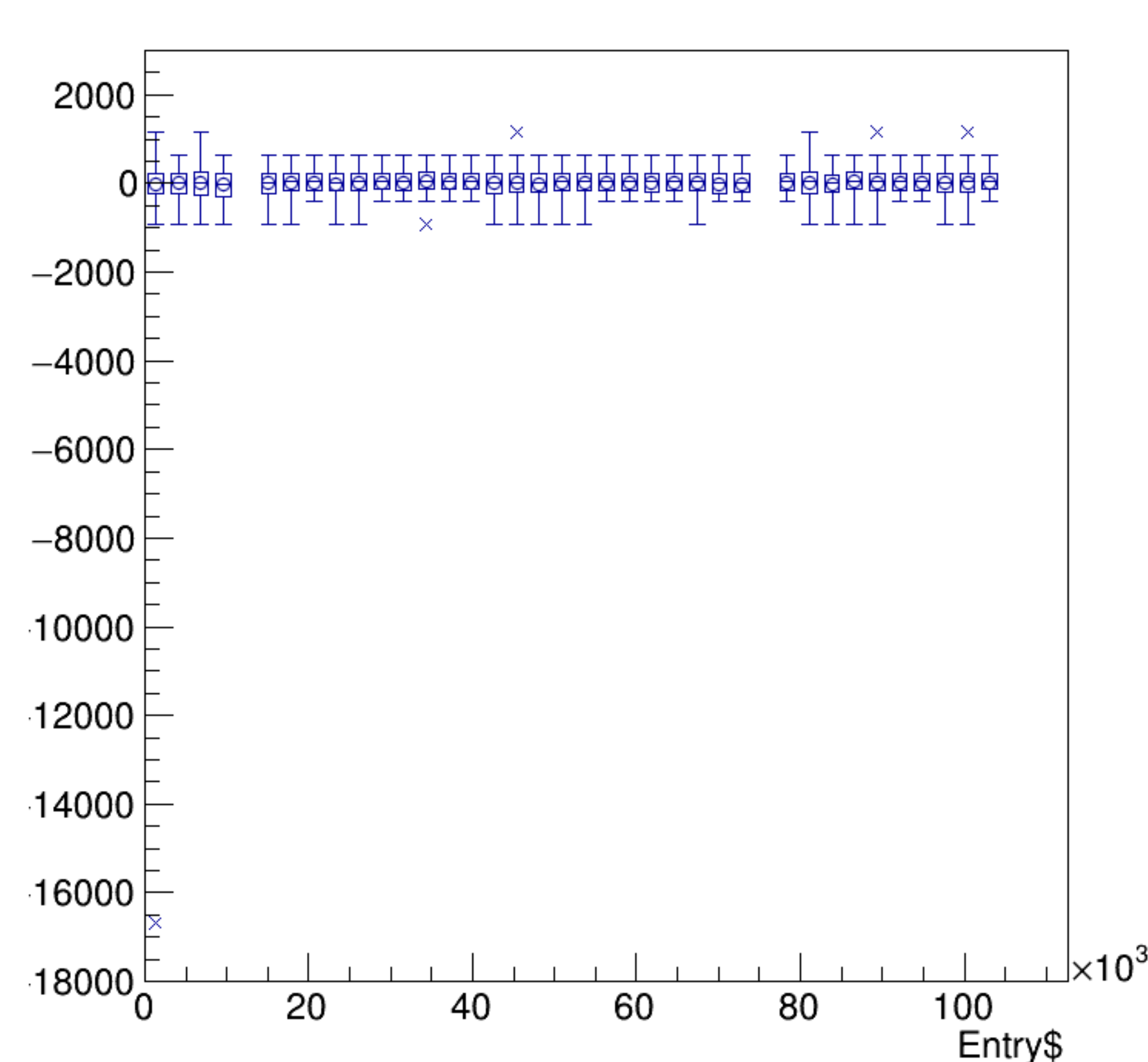
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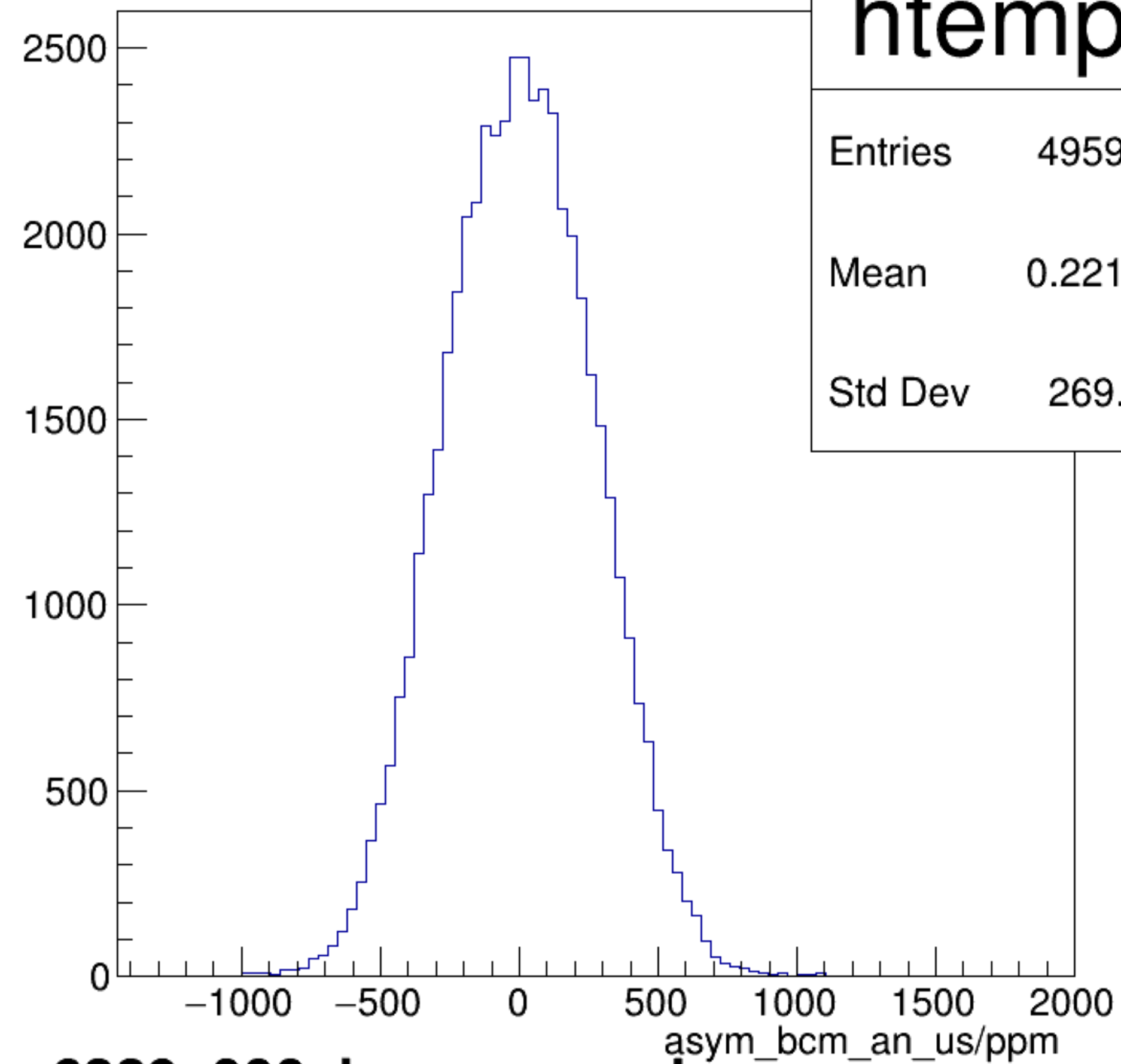
asym_bcm0l02/ppm:Entry\$ {ErrorFlag==0}



asym_bcm0l02/ppm:Entry\$ {ErrorFlag==0}

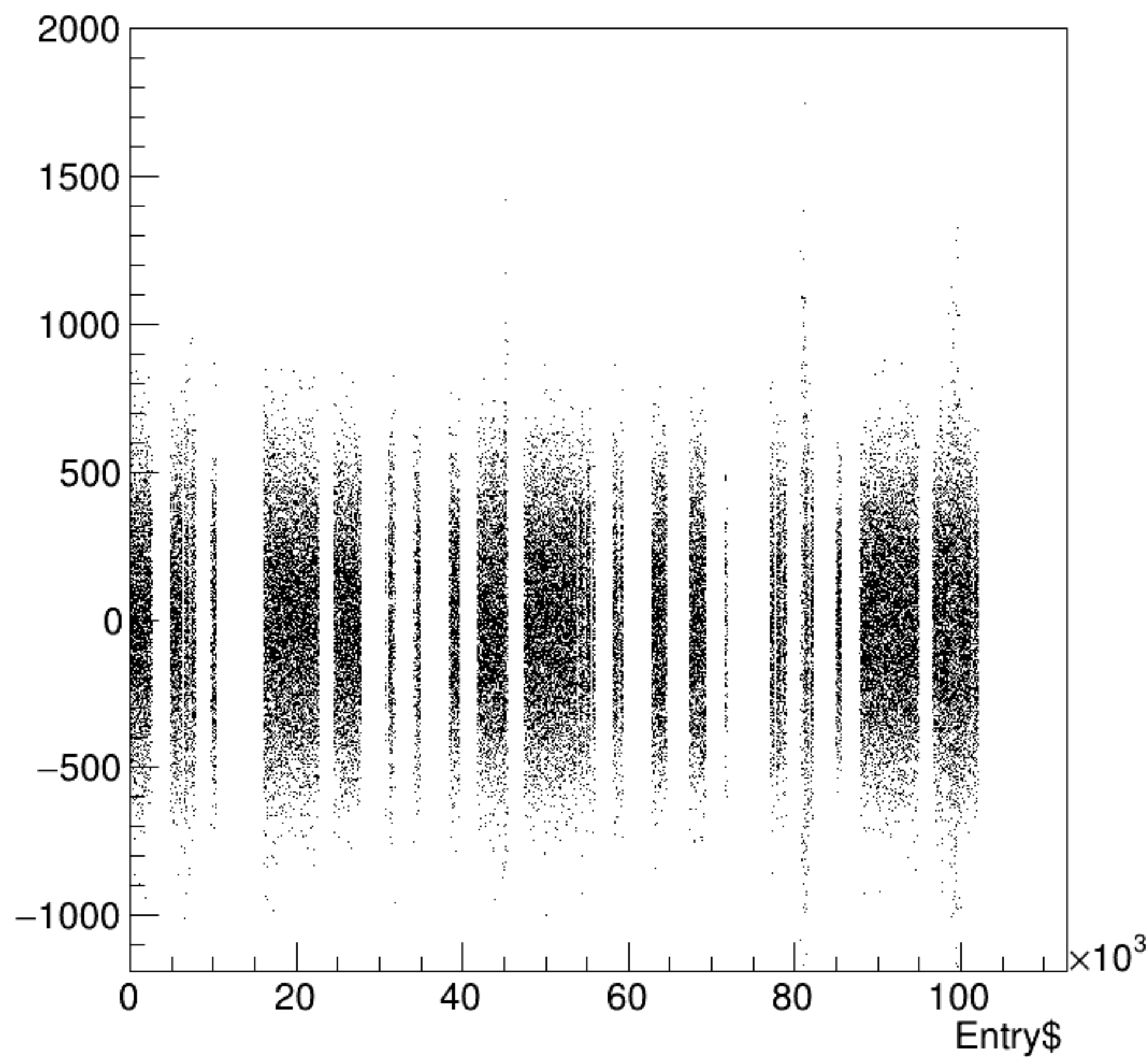


asym_bcm_an_us/ppm {ErrorFlag==0}

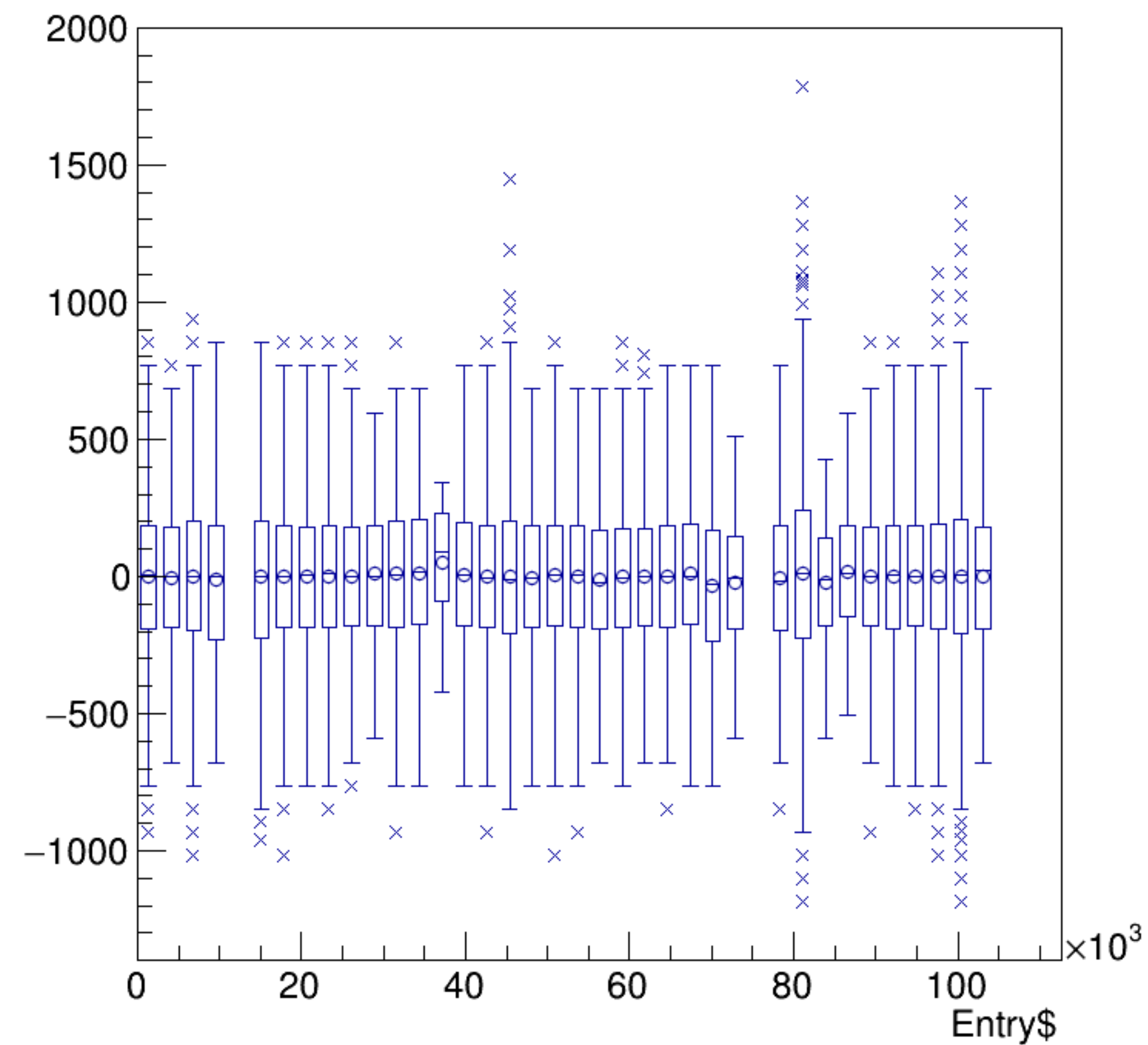


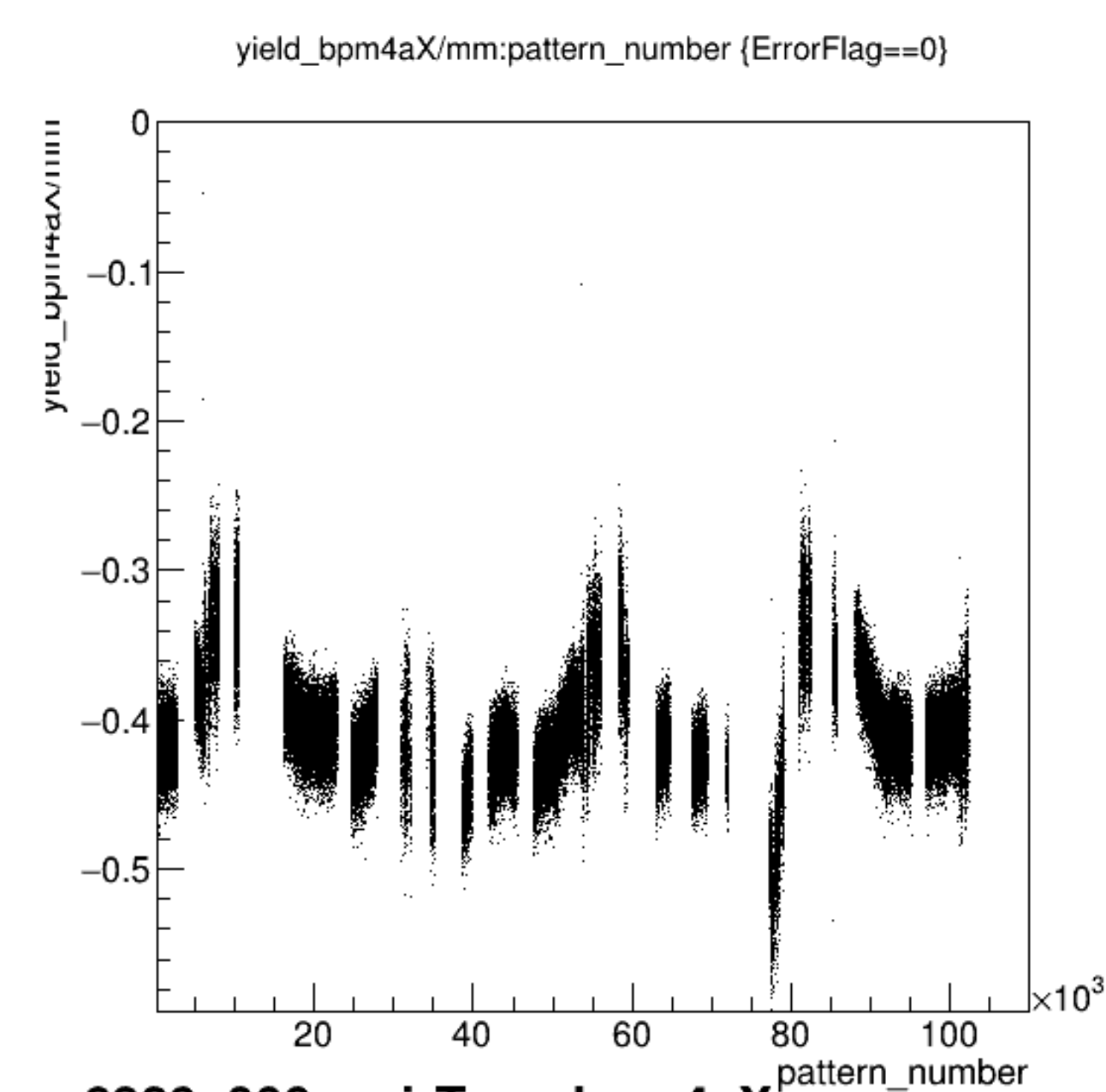
run6329_000_bpm_asym_bcm_an_us.png

asym_bcm_an_us/ppm:Entry\$ {ErrorFlag==0}

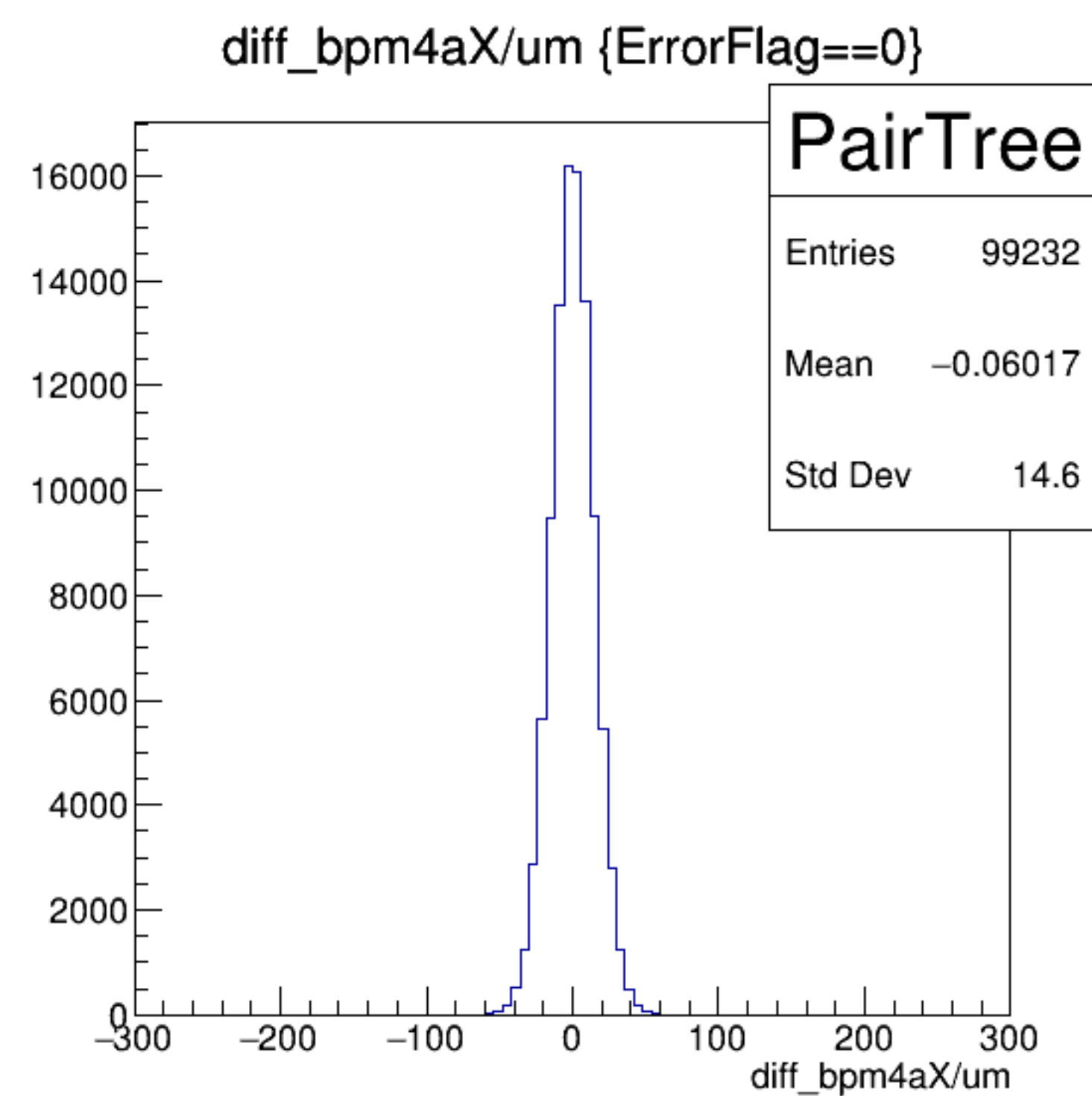
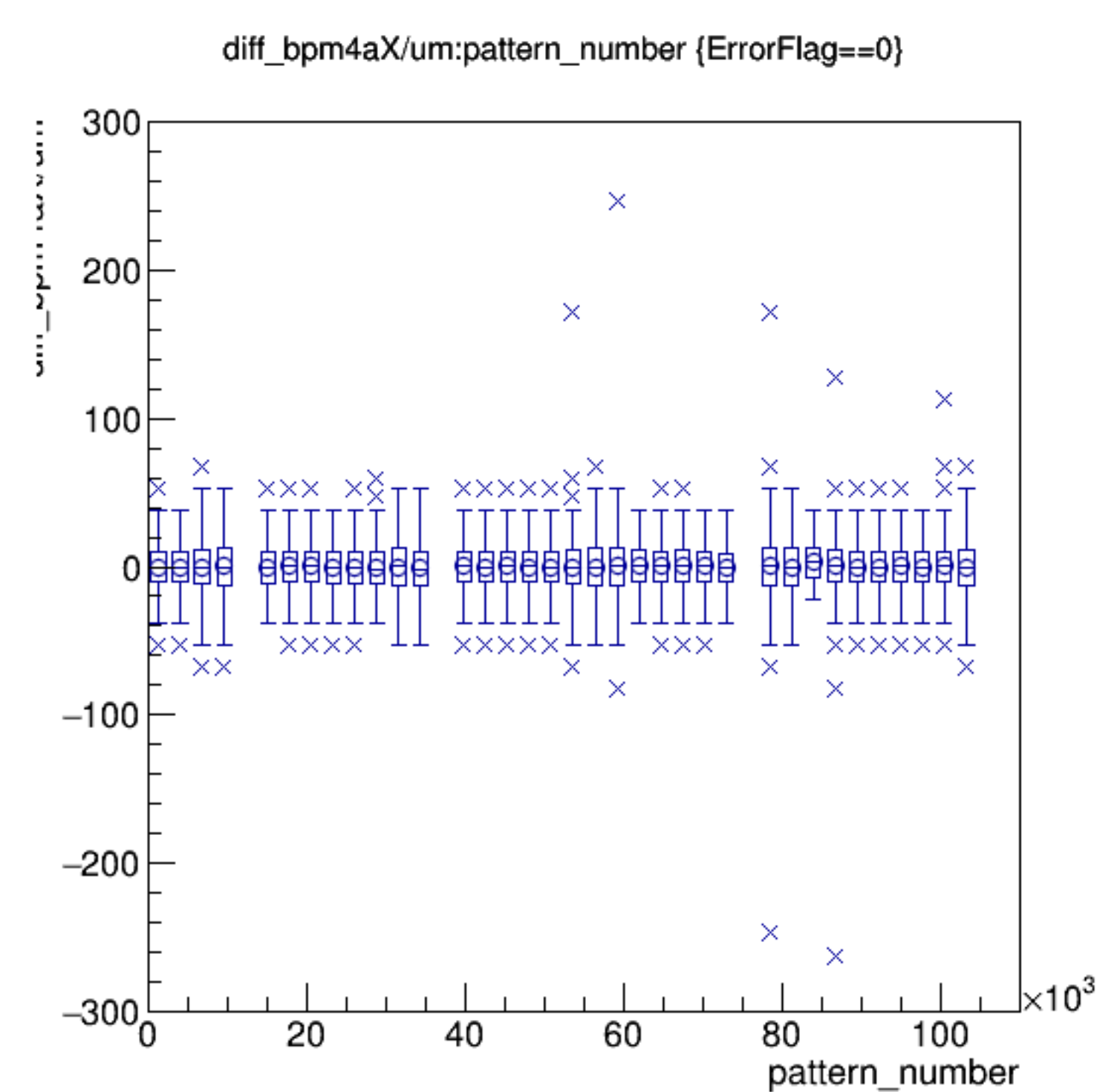
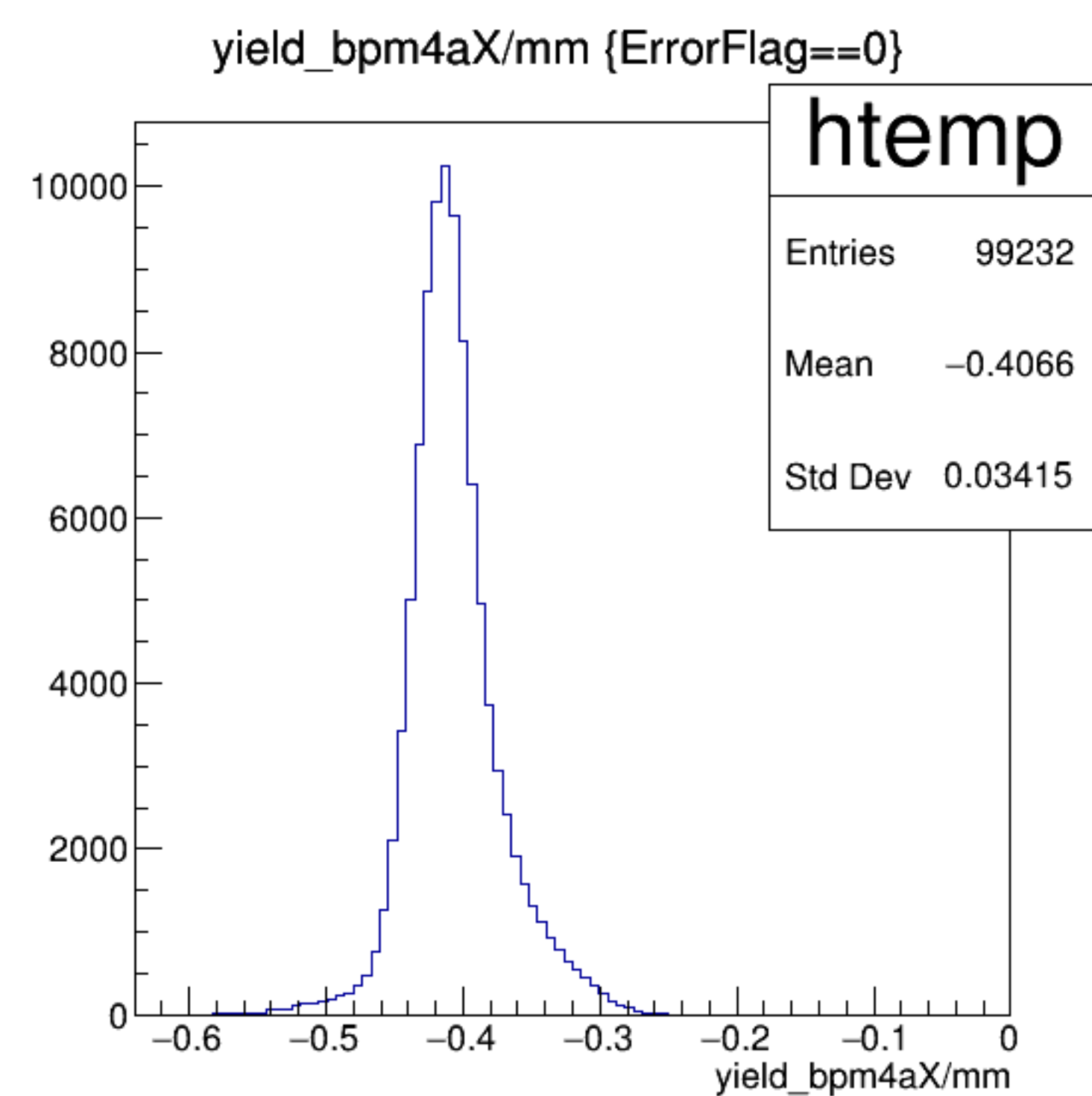


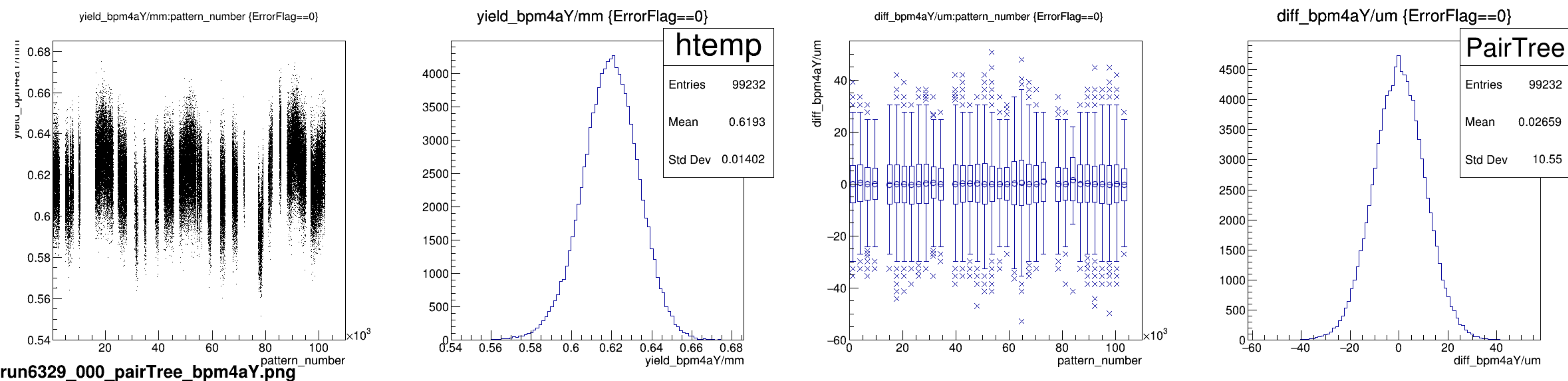
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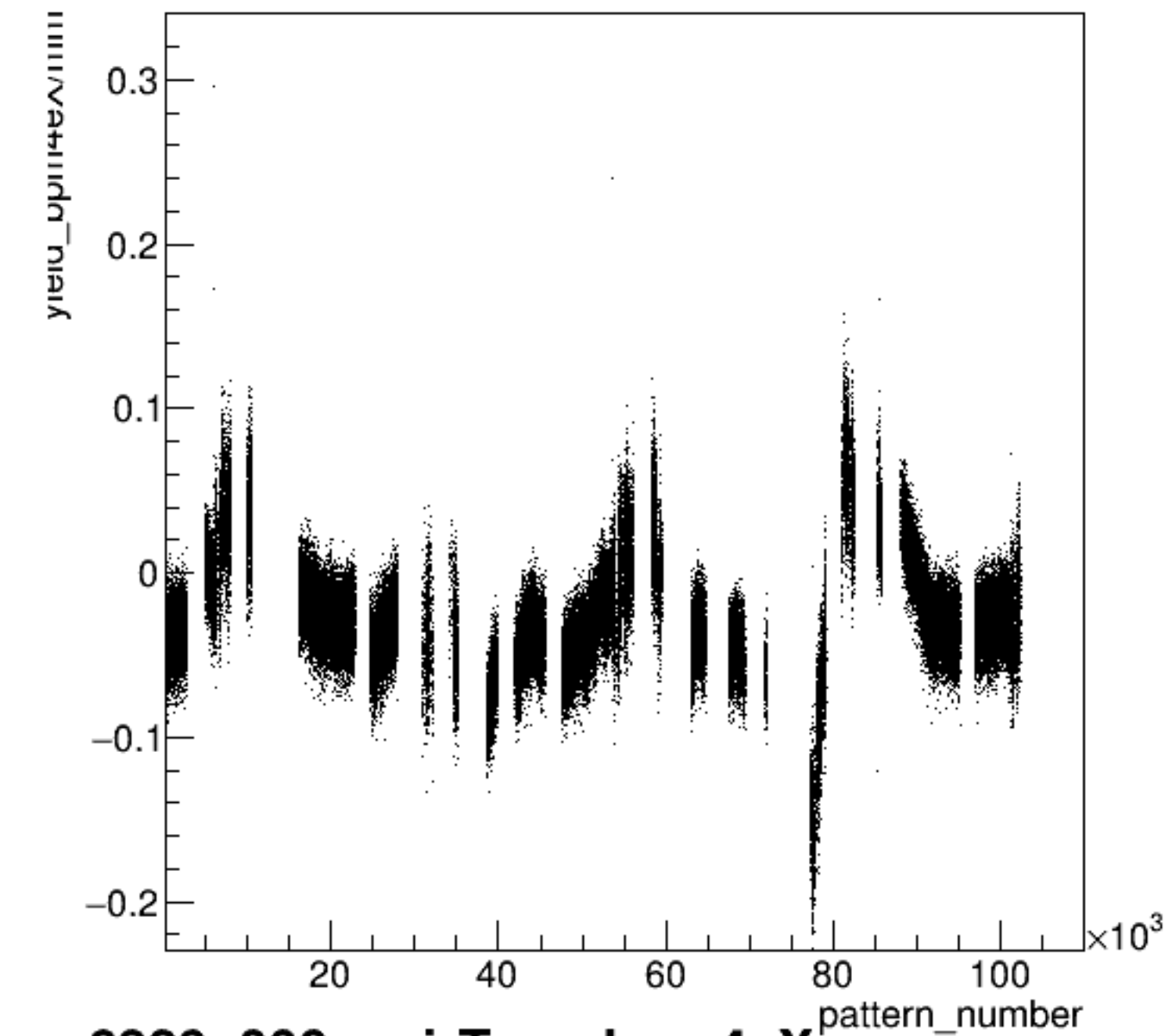


run6329_000_pairTree_bpm4aX.png



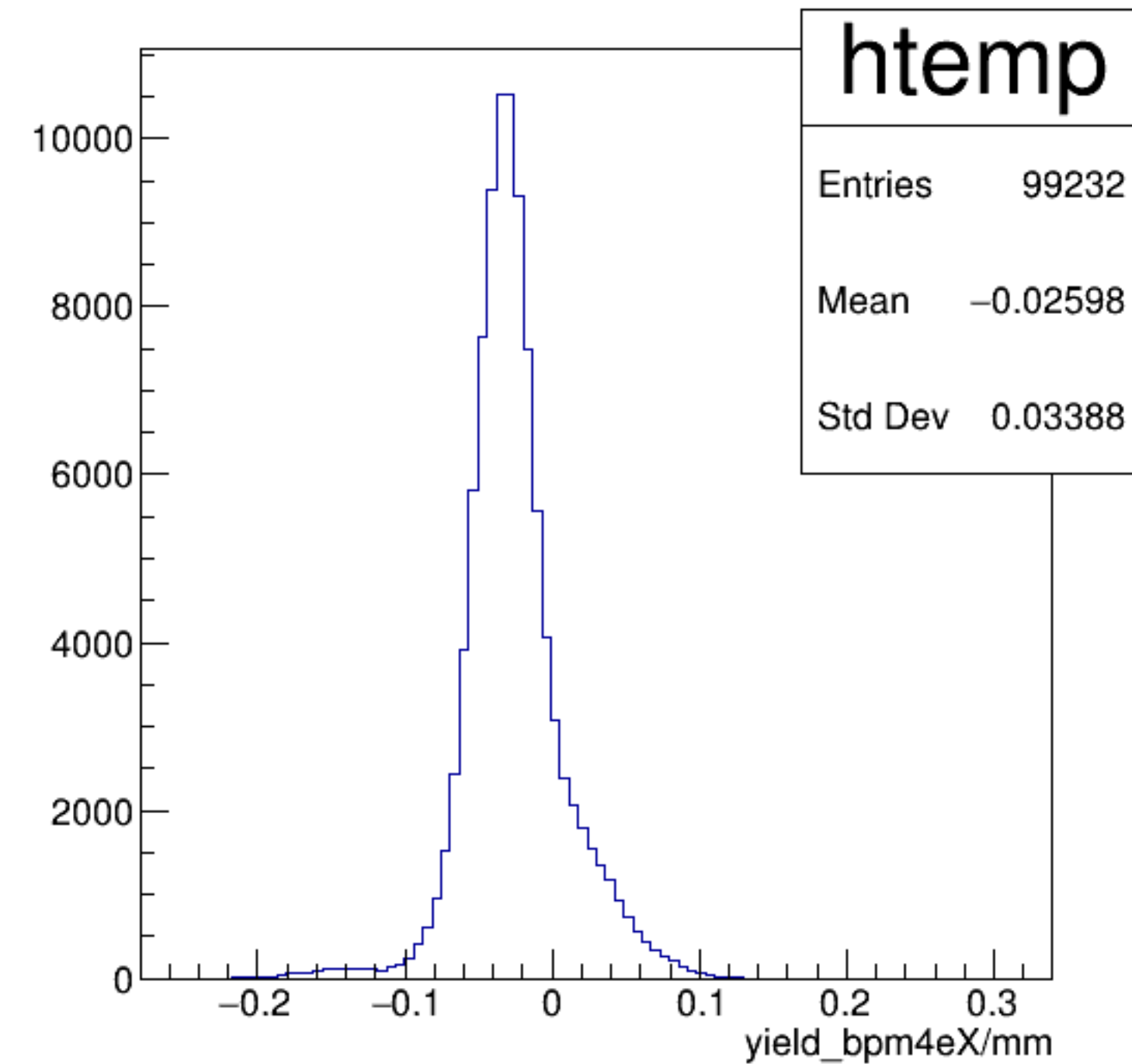


yield_bpm4eX/mm:pattern_number {ErrorFlag==0}

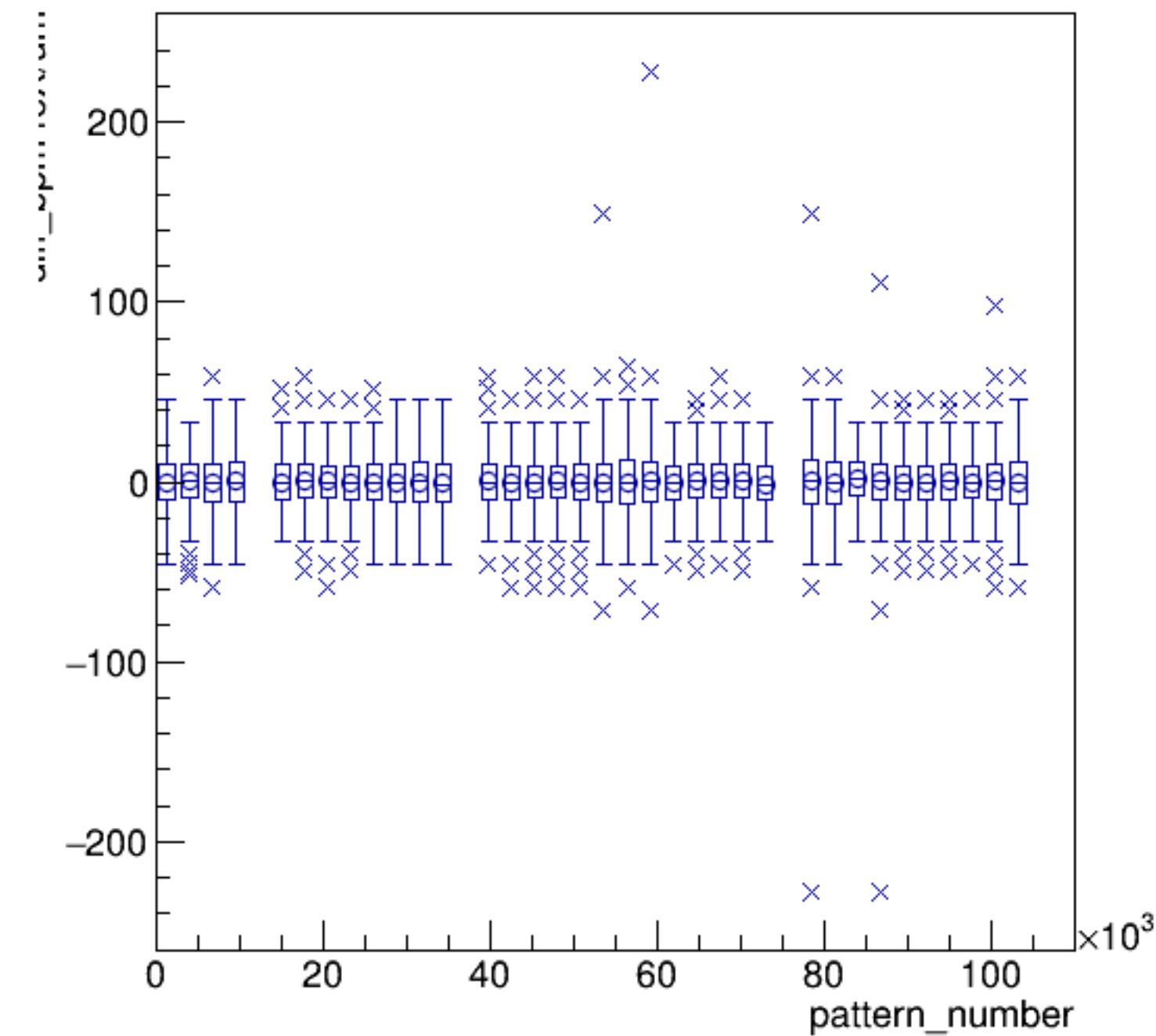


run6329_000_pairTree_bpm4eX.png

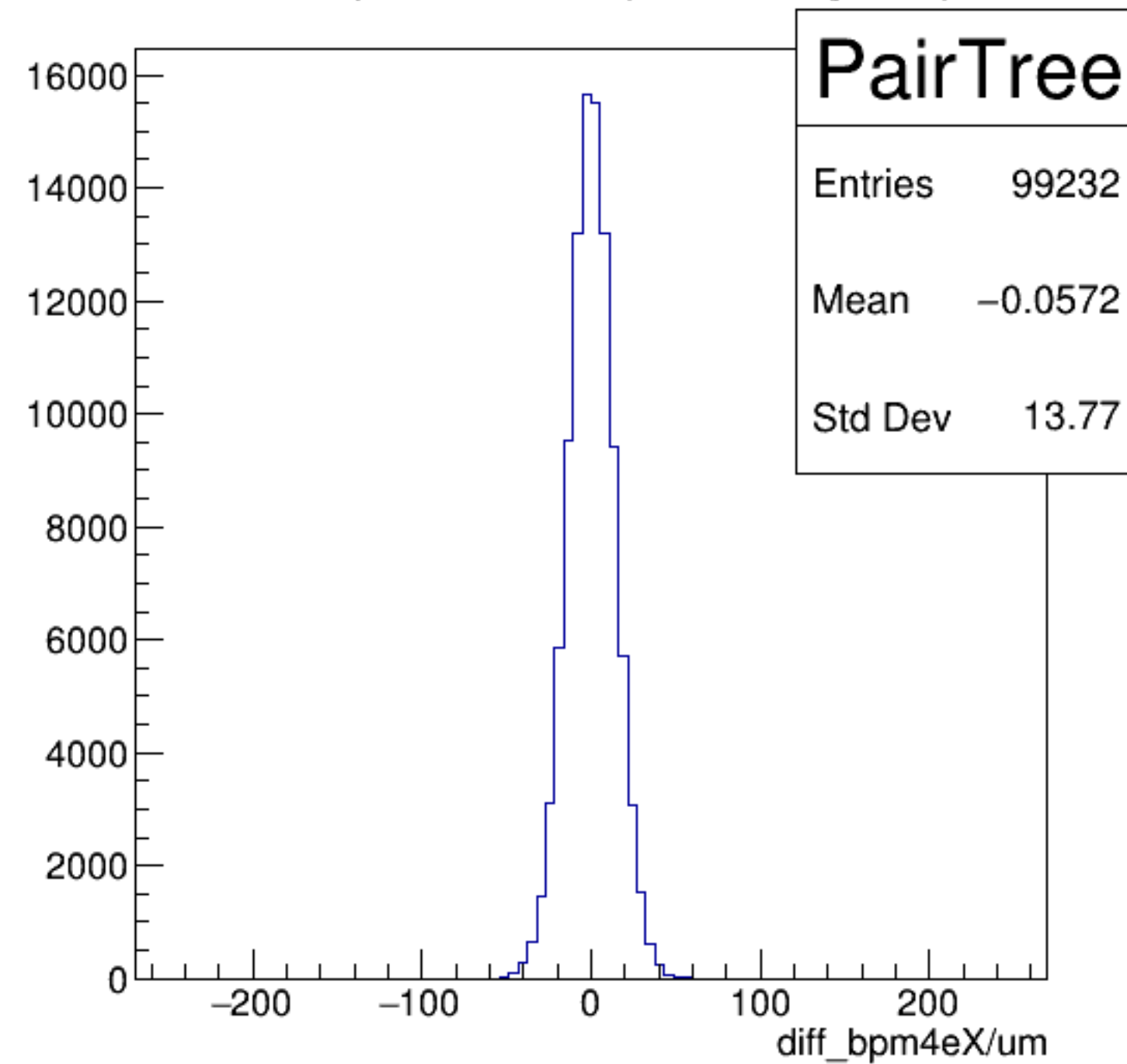
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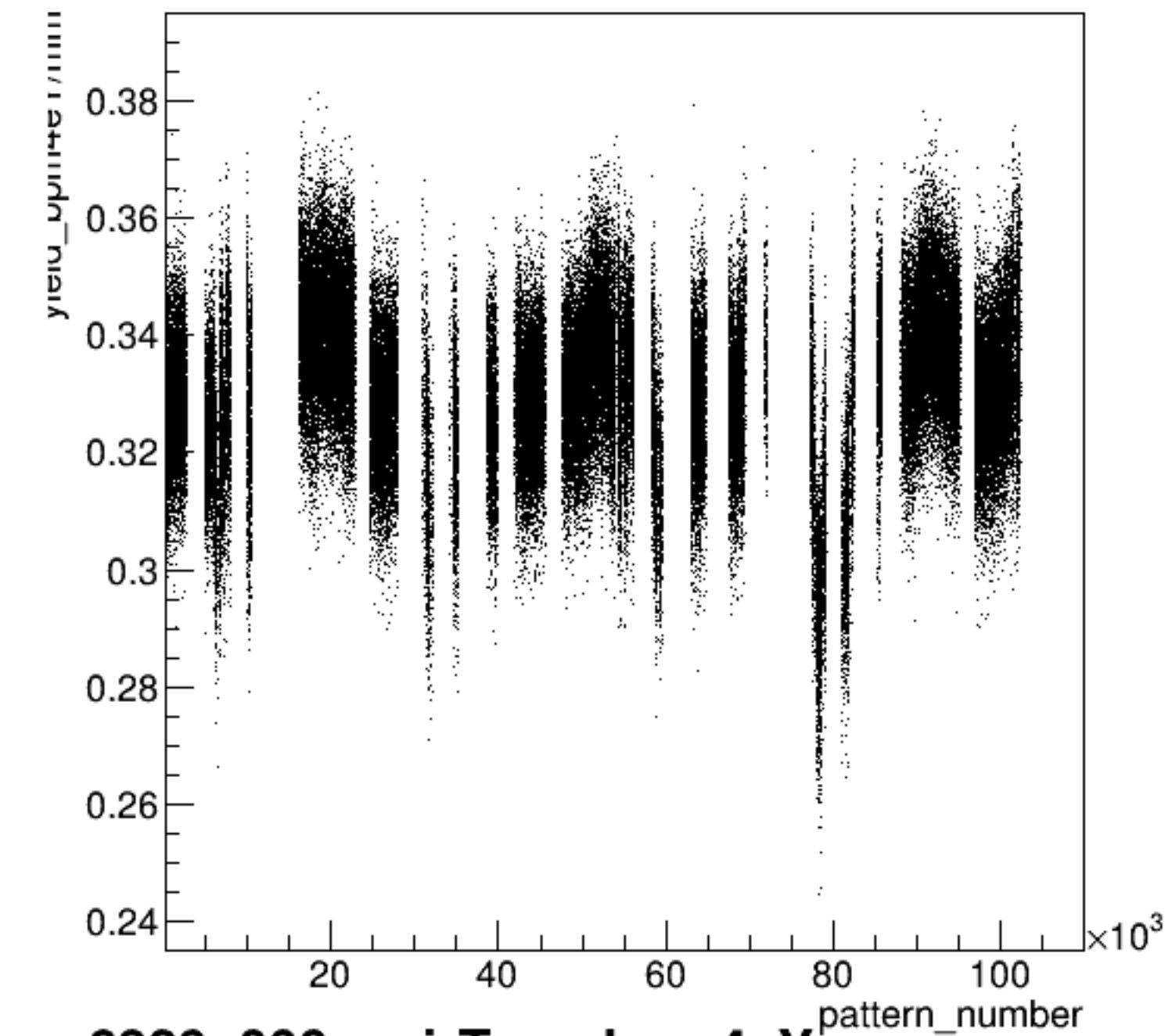
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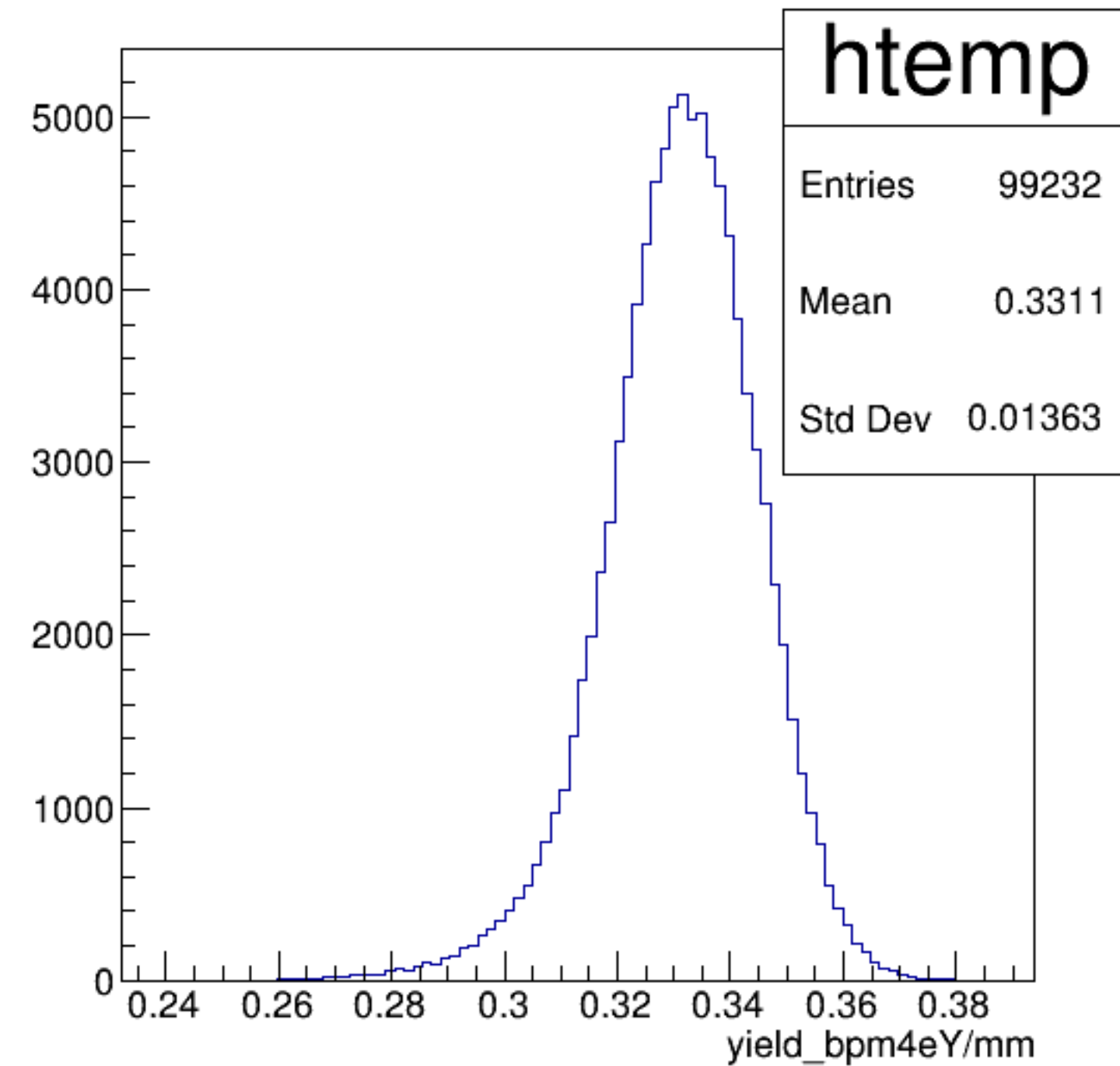


yield_bpm4eY/mm:pattern_number {ErrorFlag==0}

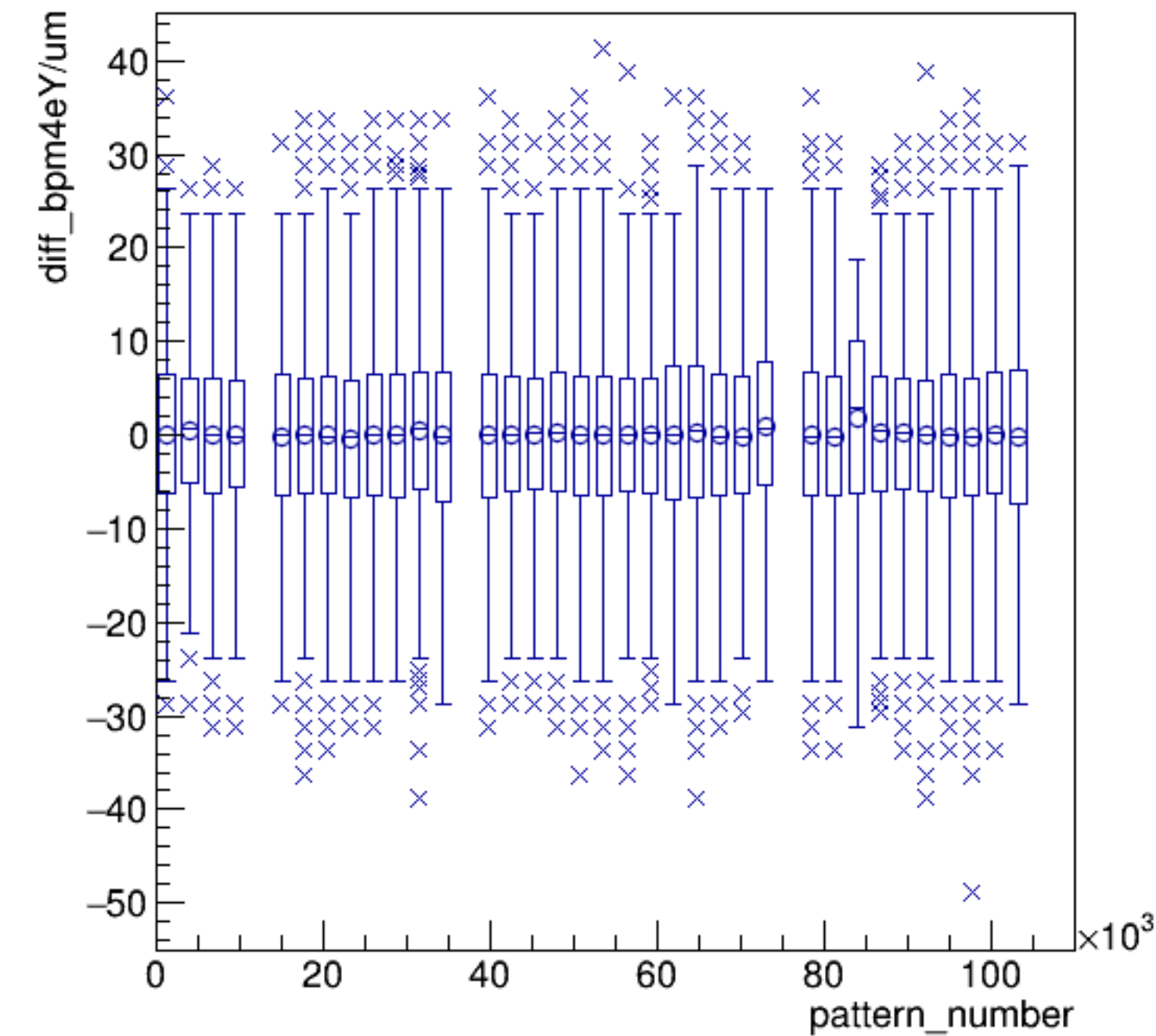


run6329_000_pairTree_bpm4eY.png

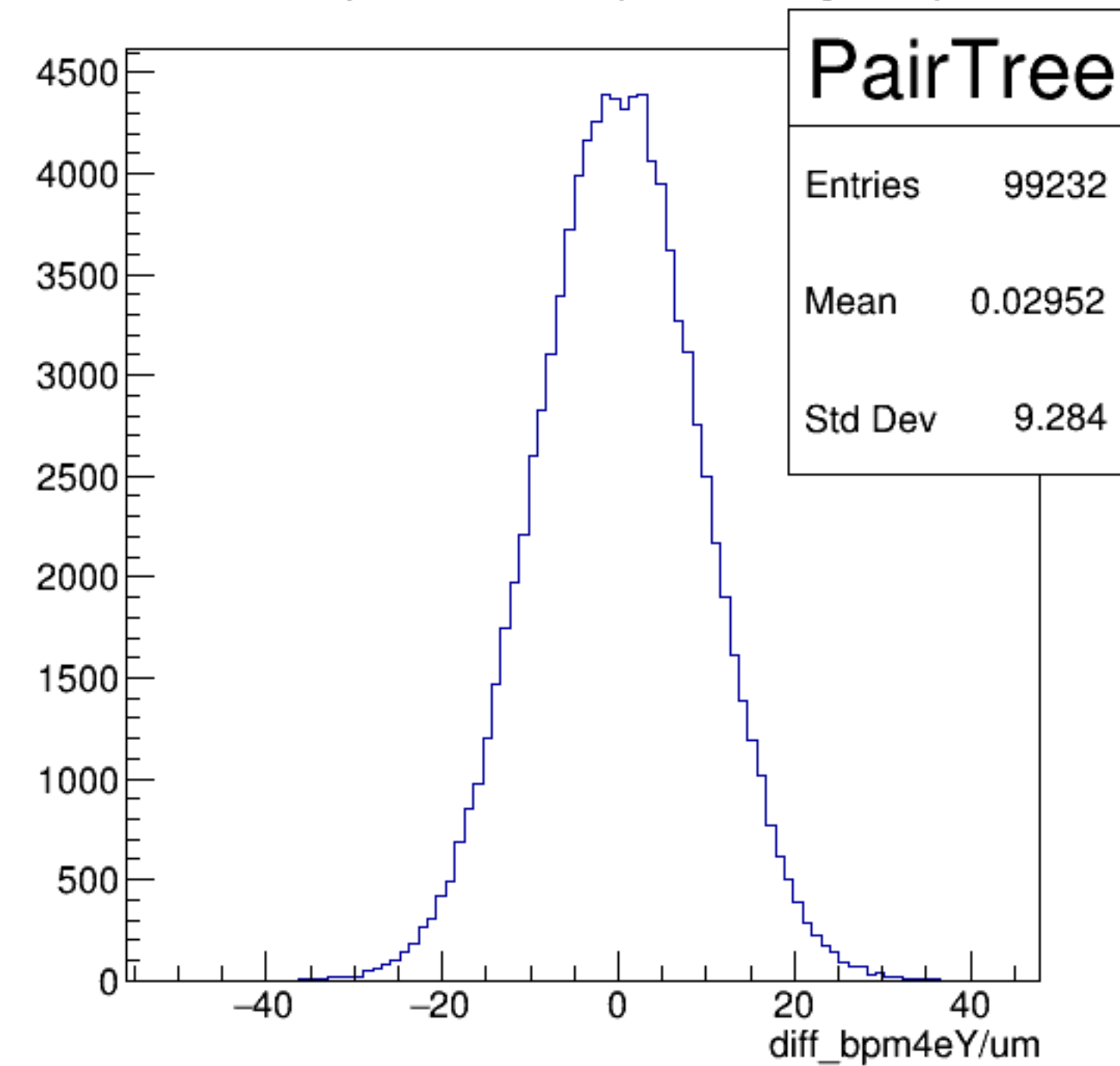
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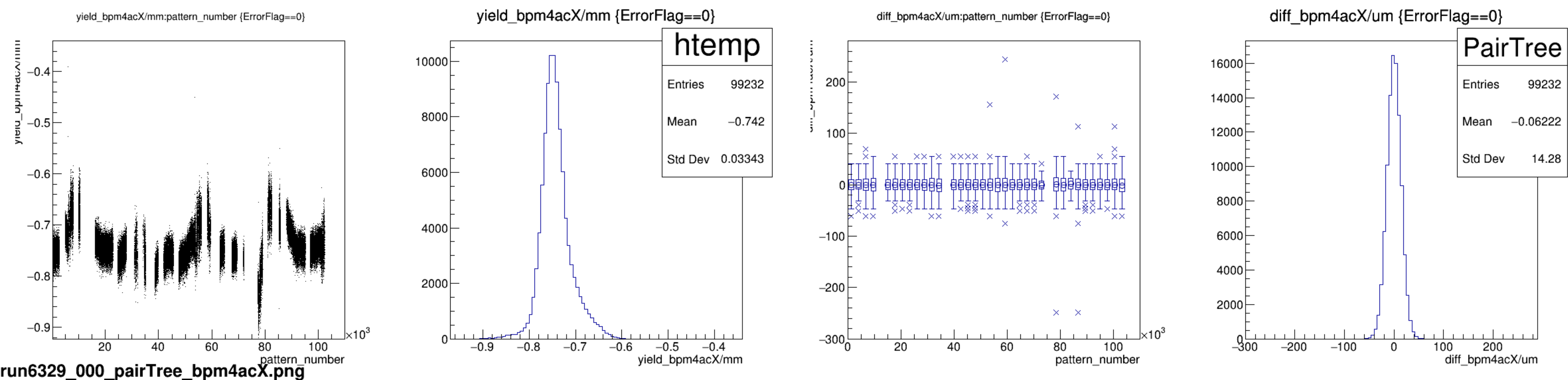


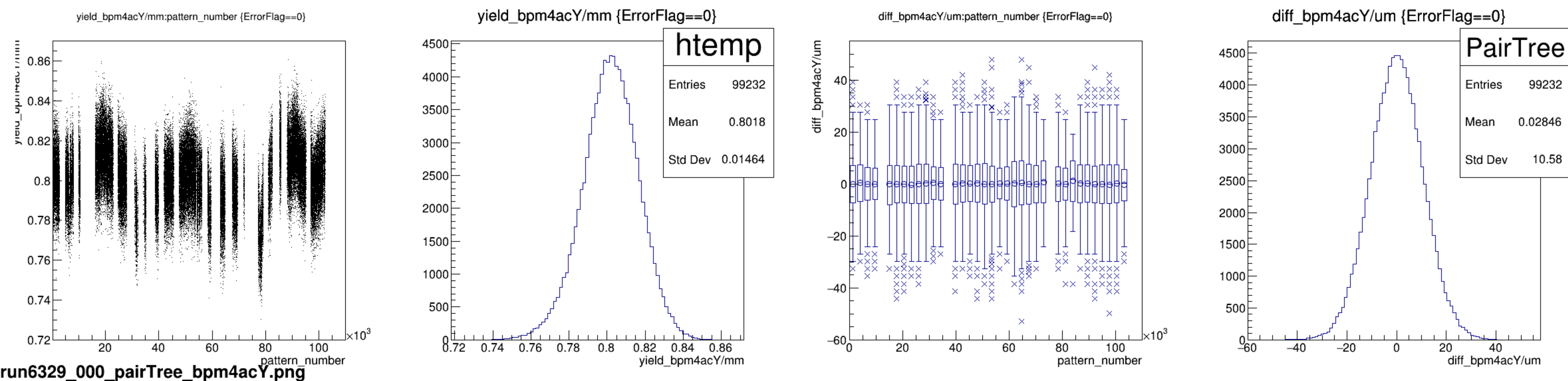
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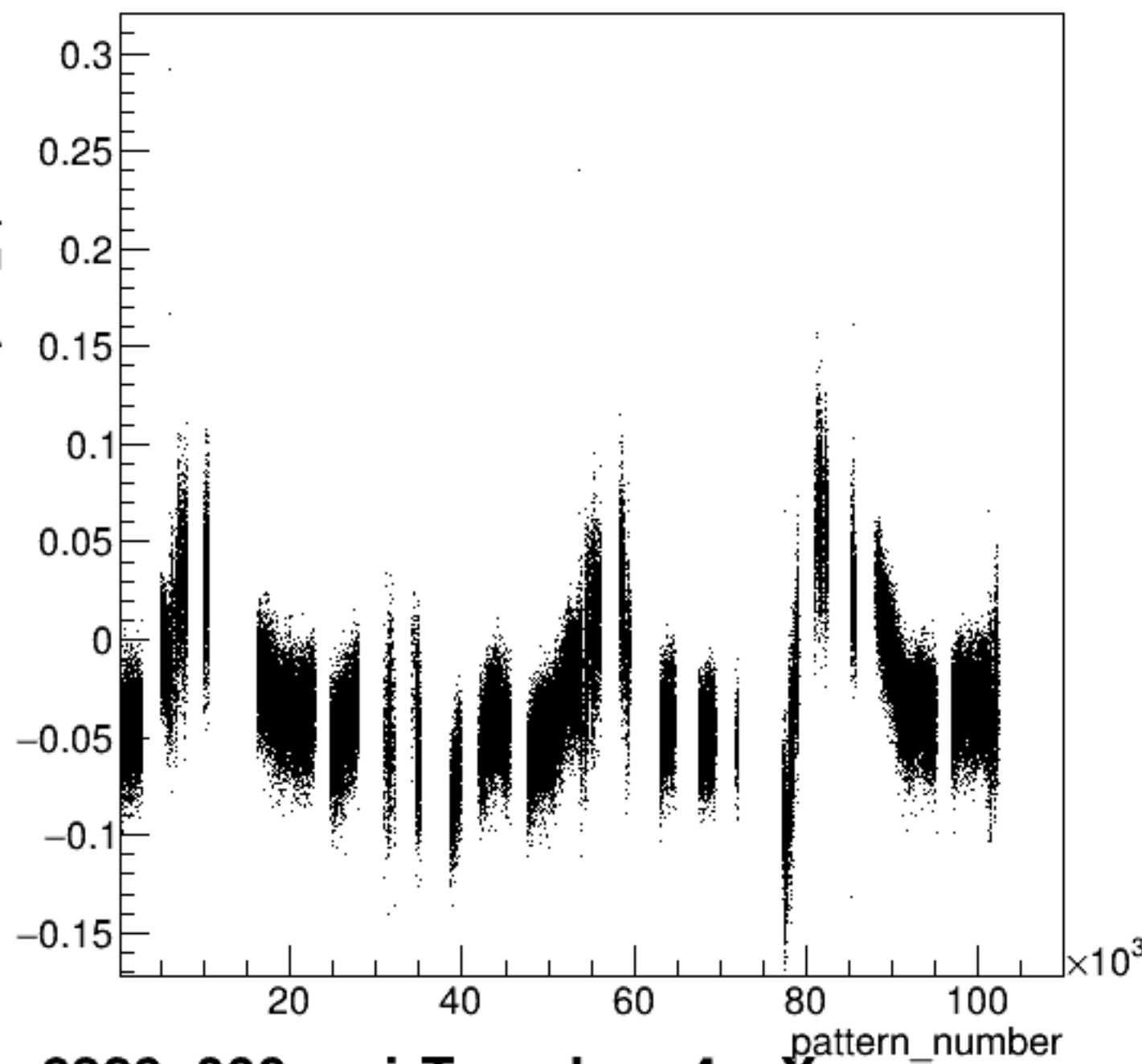
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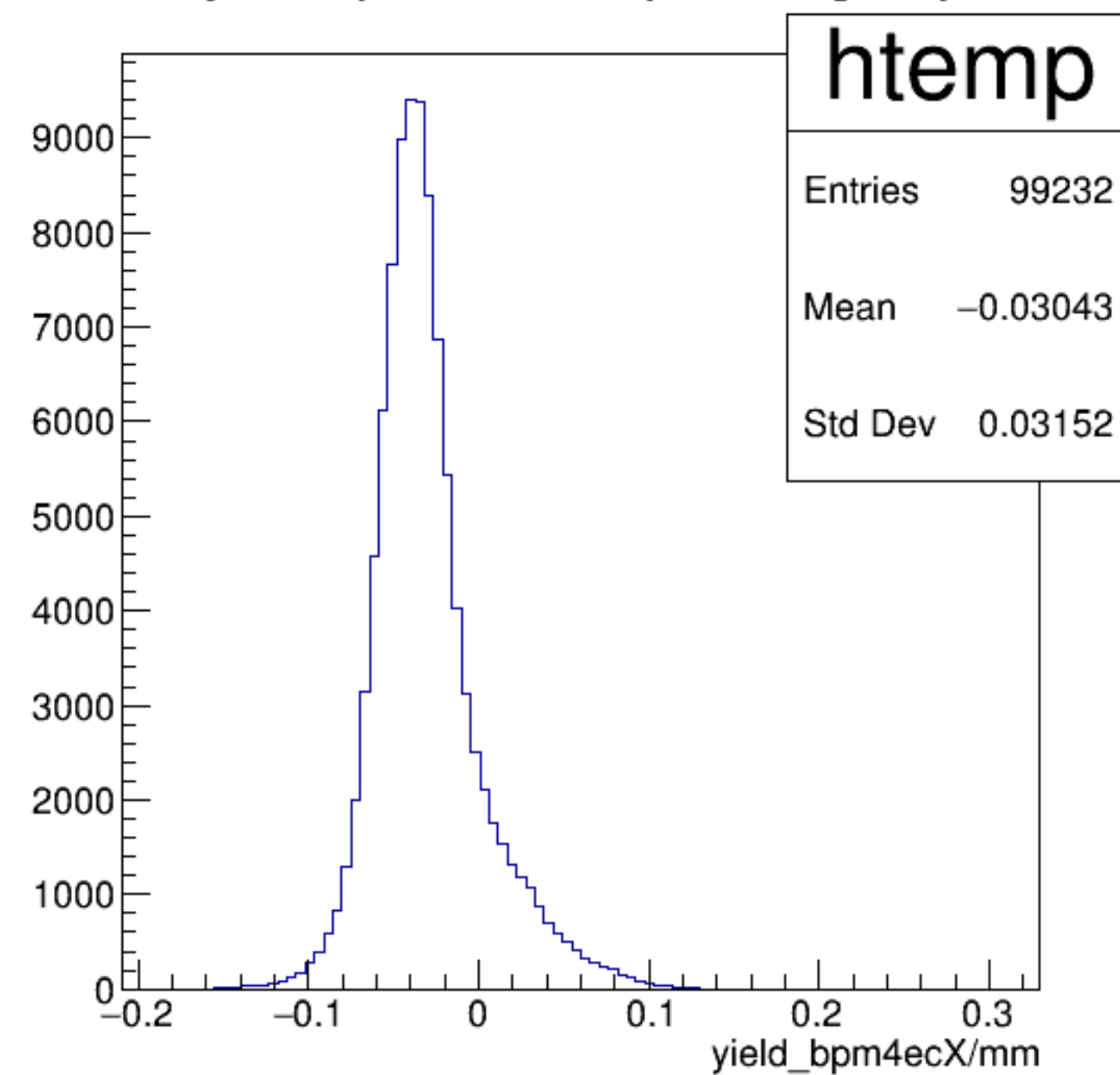


yield_bpm4ecX/mm:pattern_number {ErrorFlag==0}

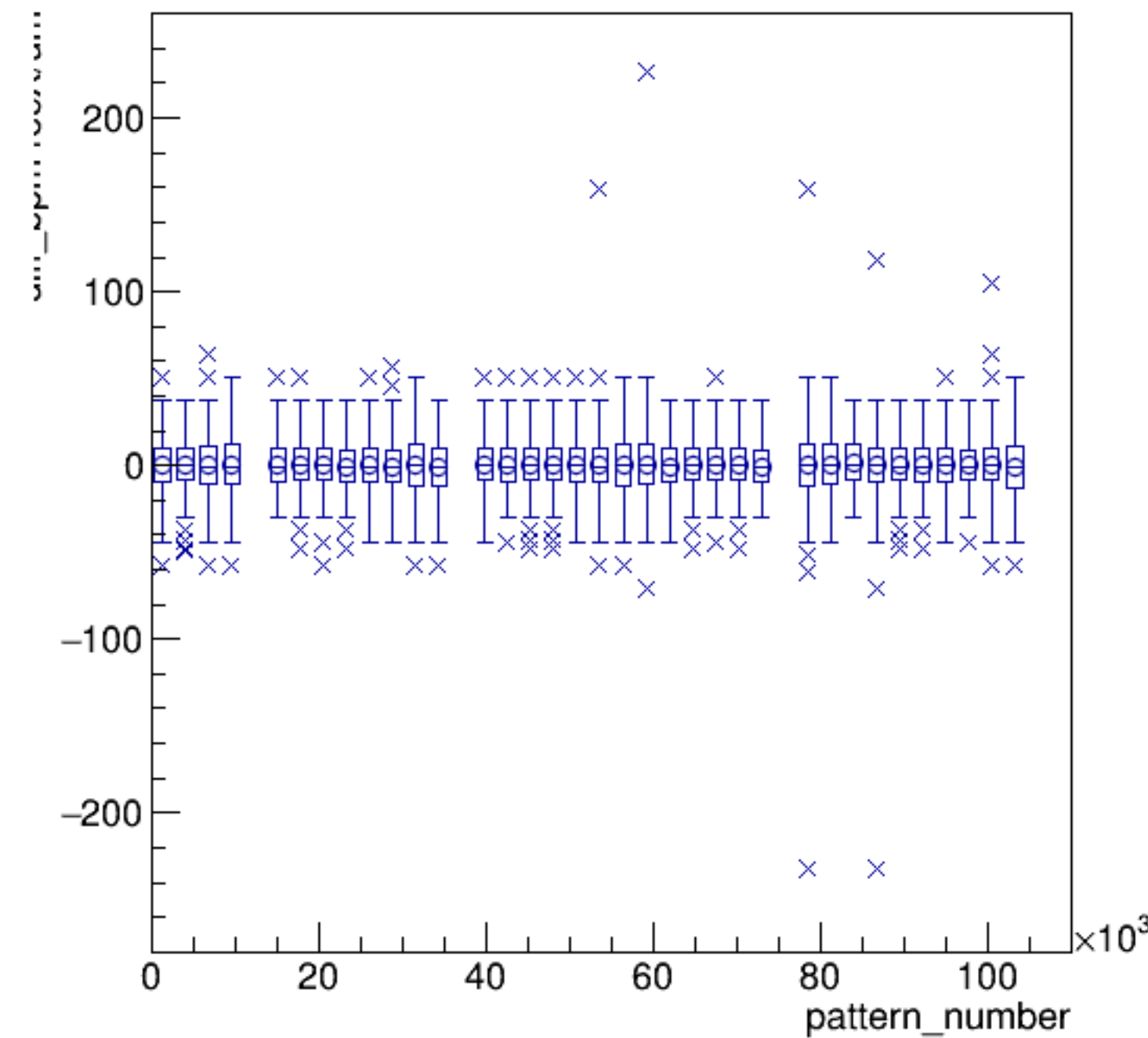


run6329_000_pairTree_bpm4ecX.png

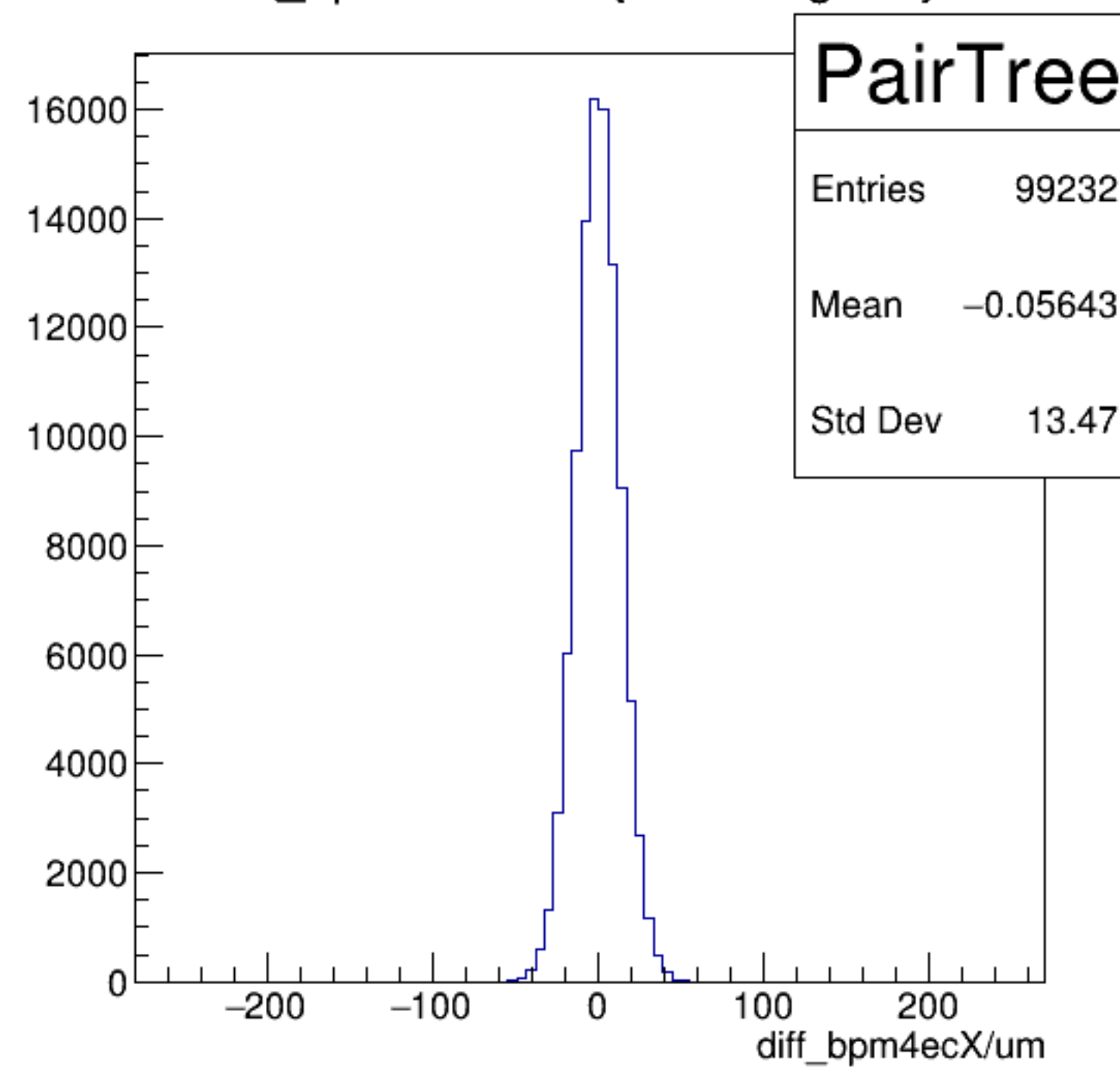
yield_bpm4ecX/mm {ErrorFlag==0}



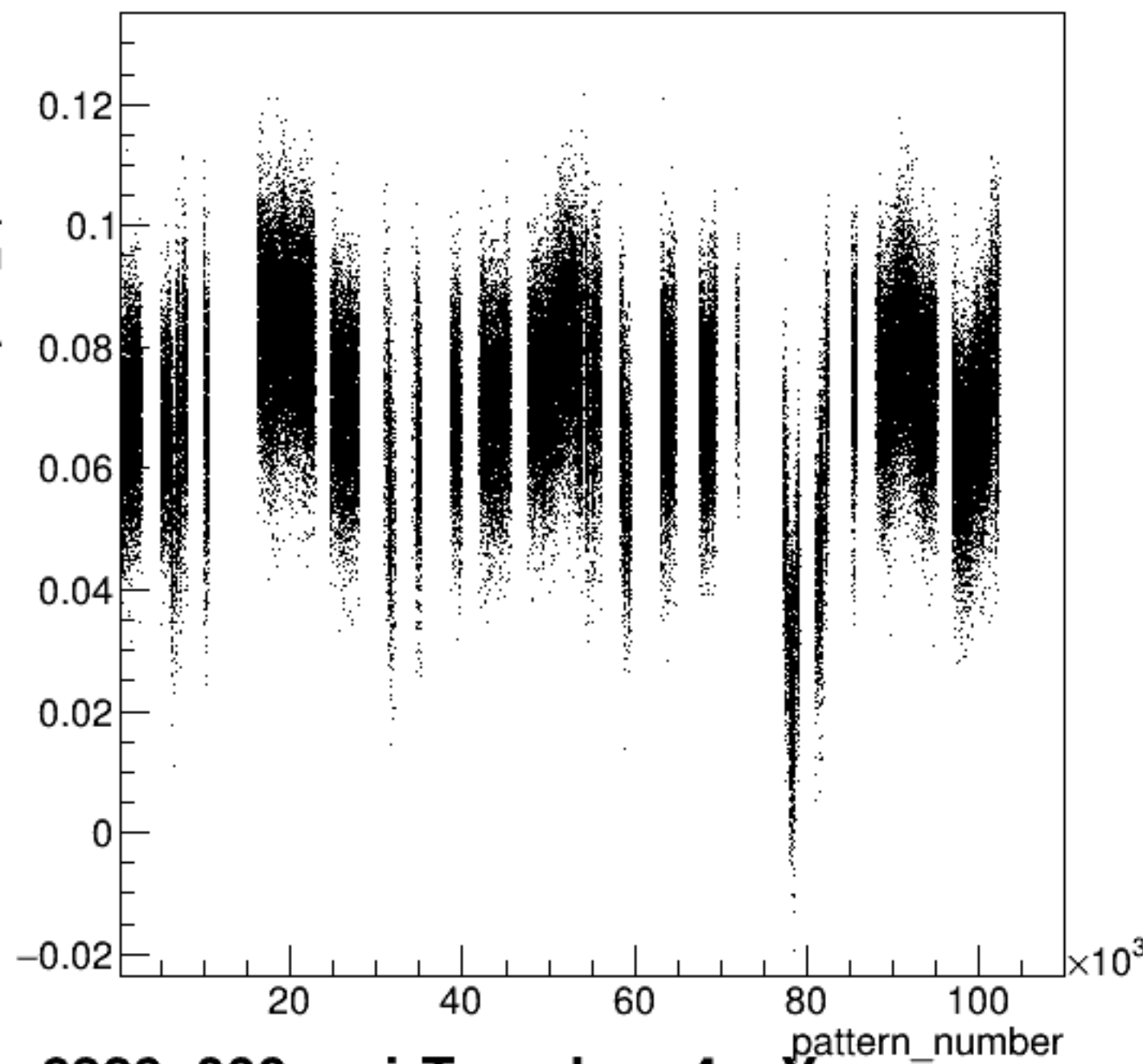
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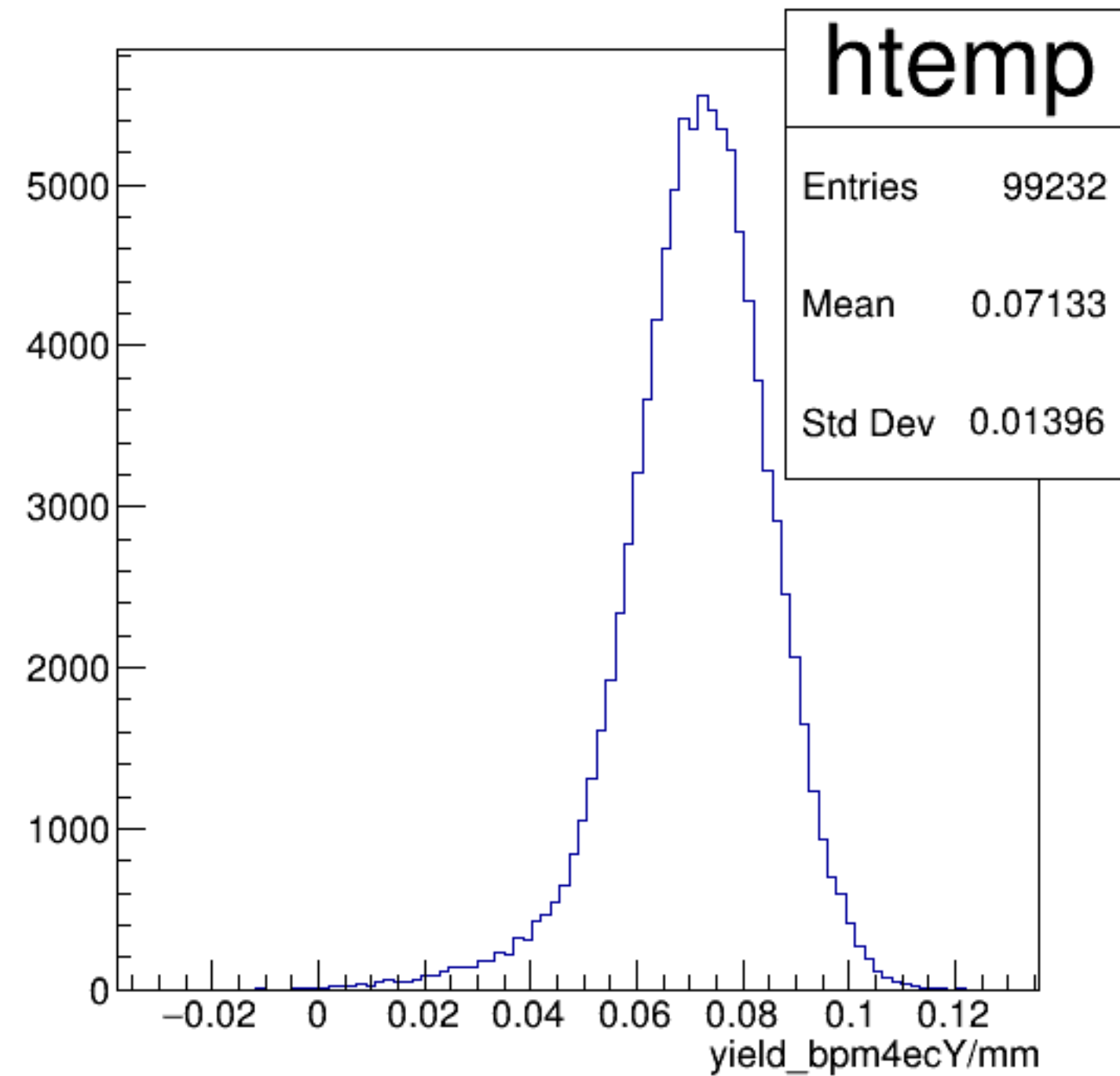
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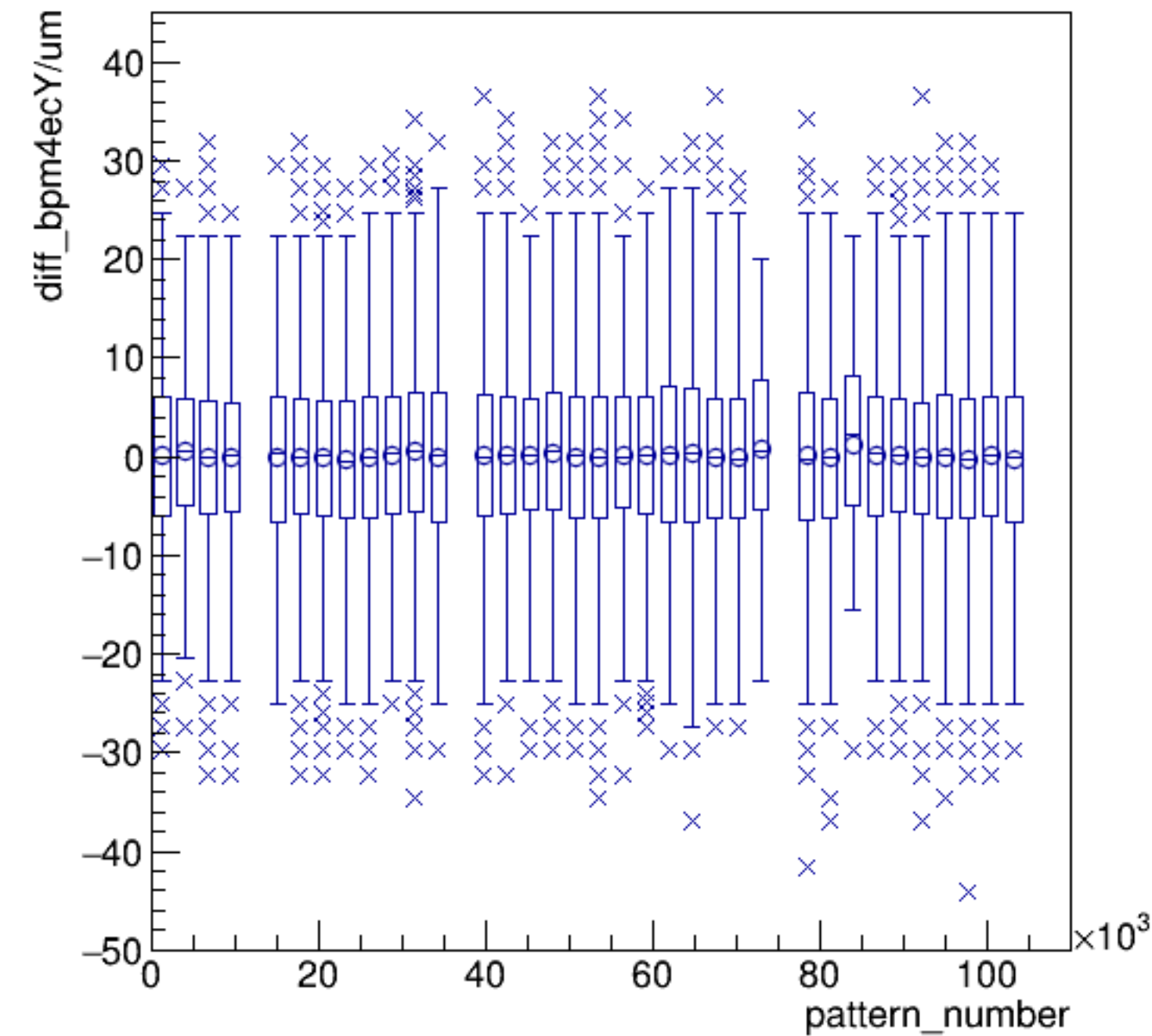
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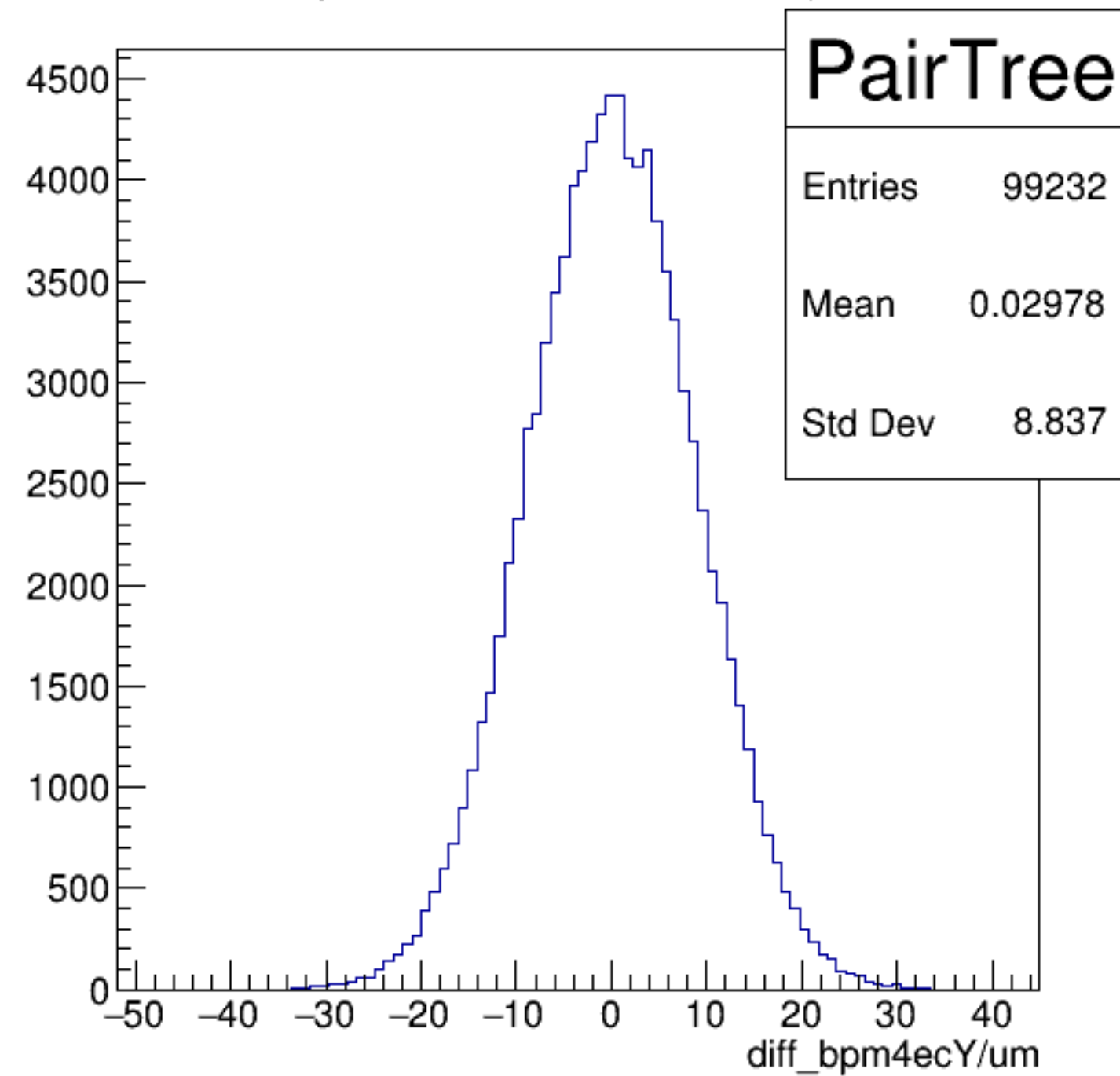
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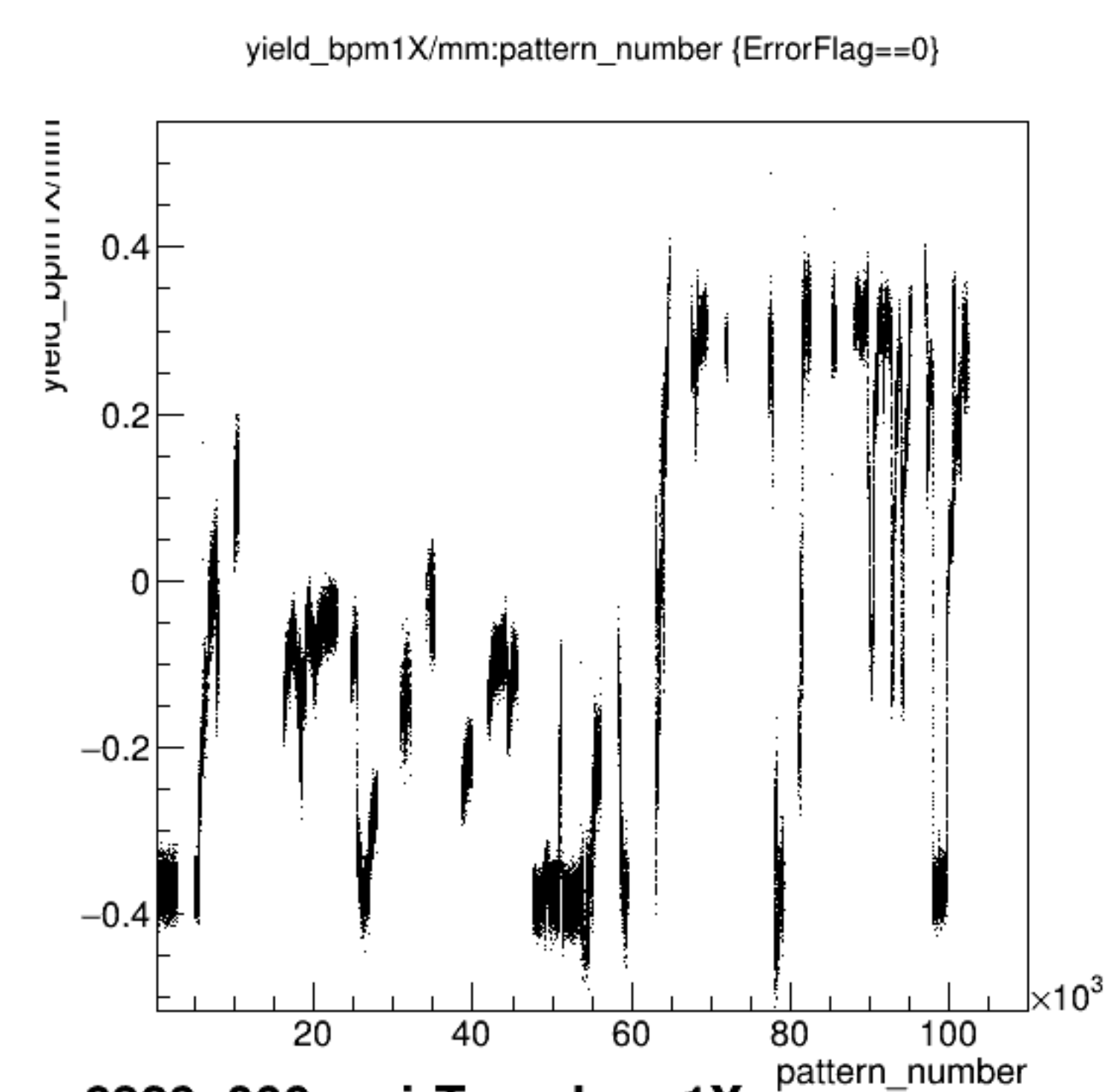


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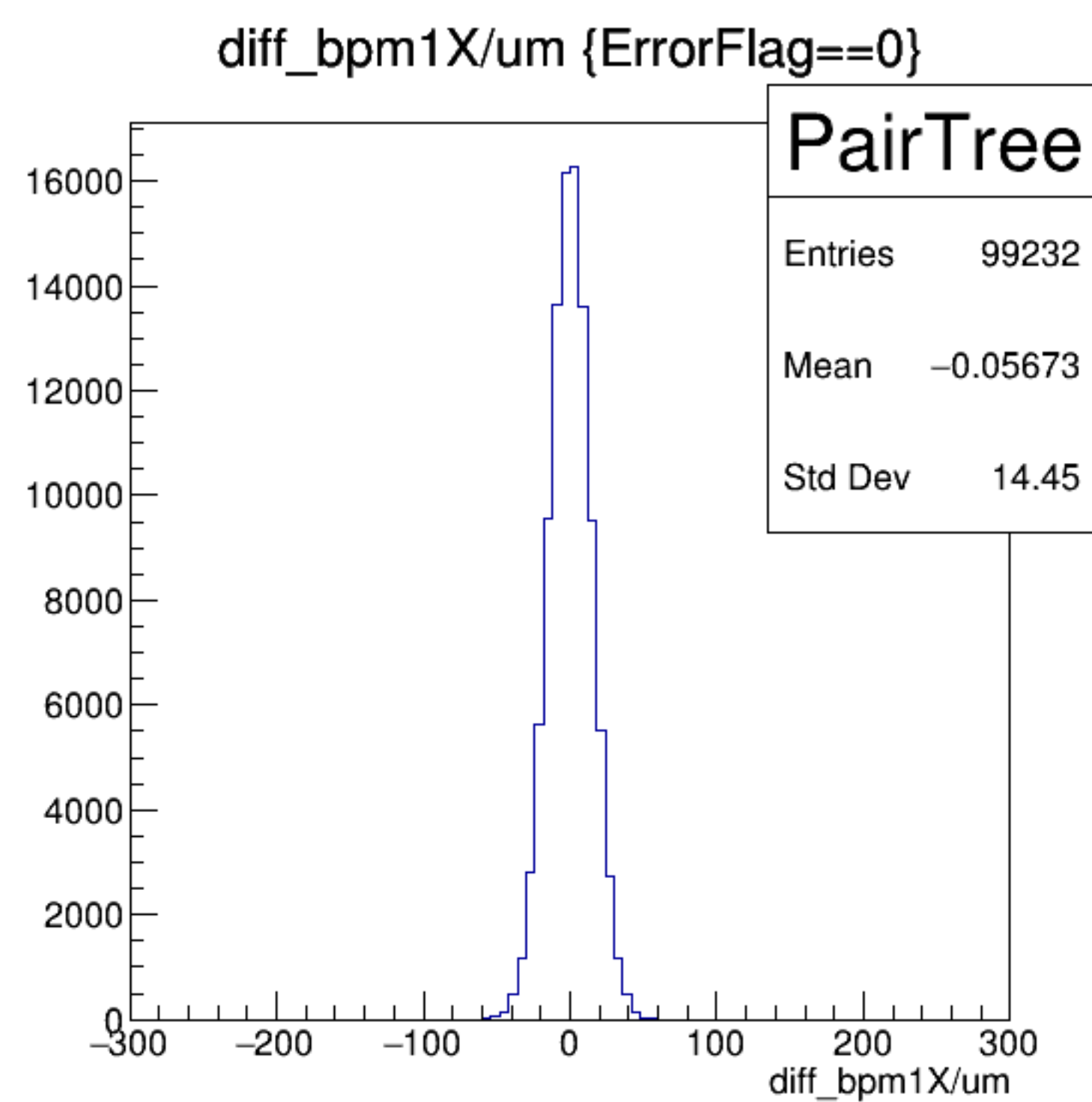
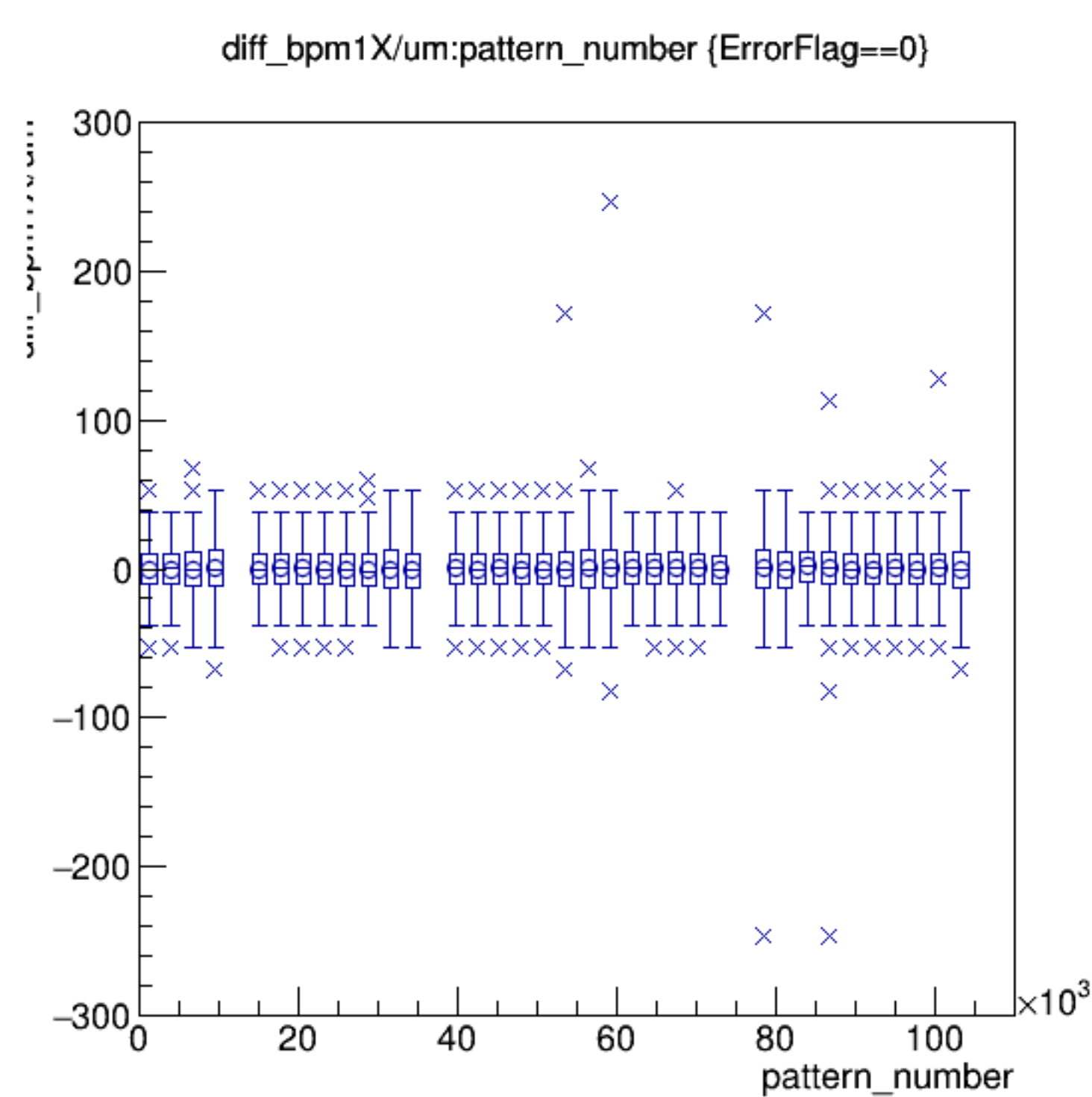
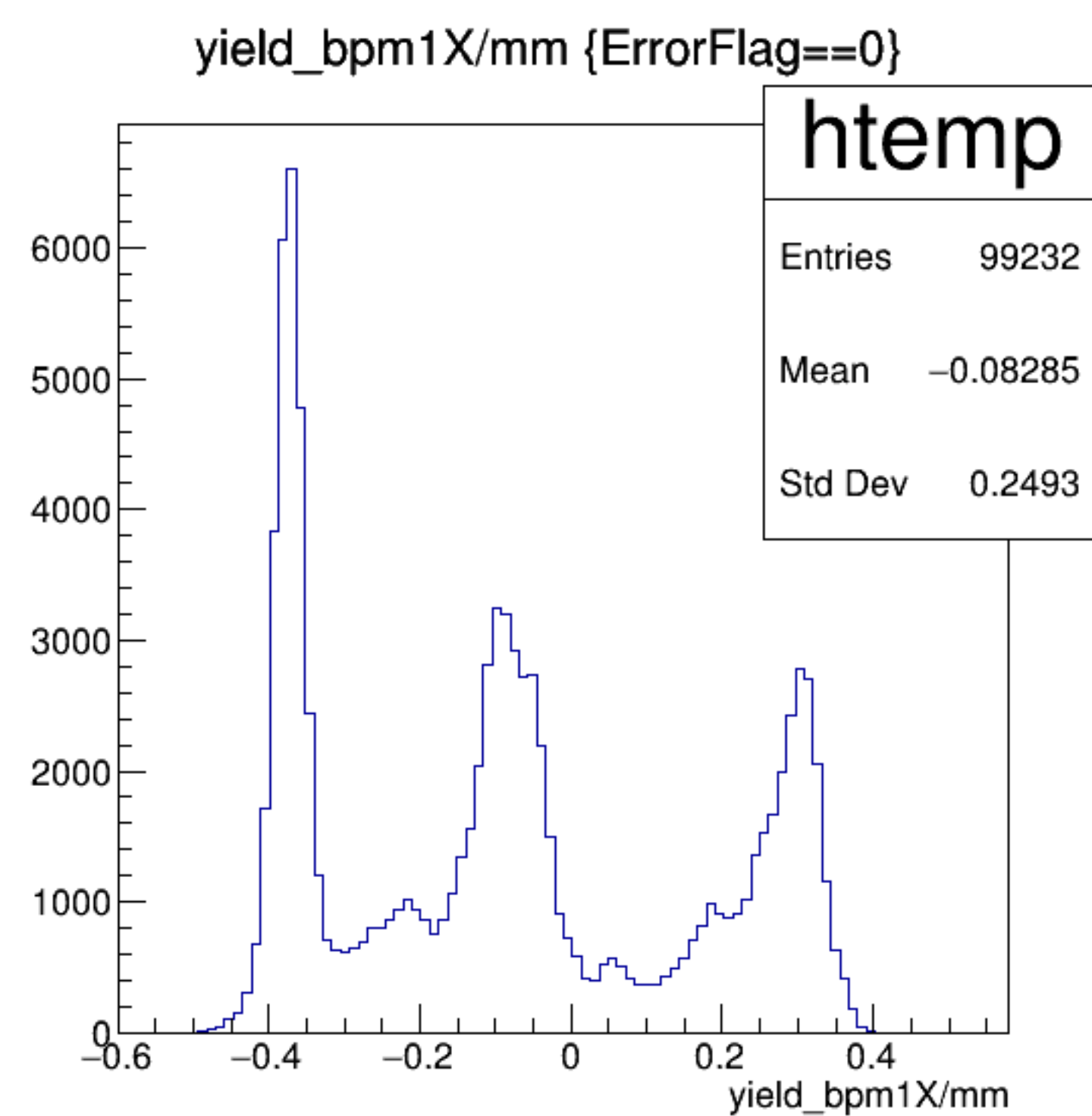


diff_bpm4ecY/um {ErrorFlag==0}

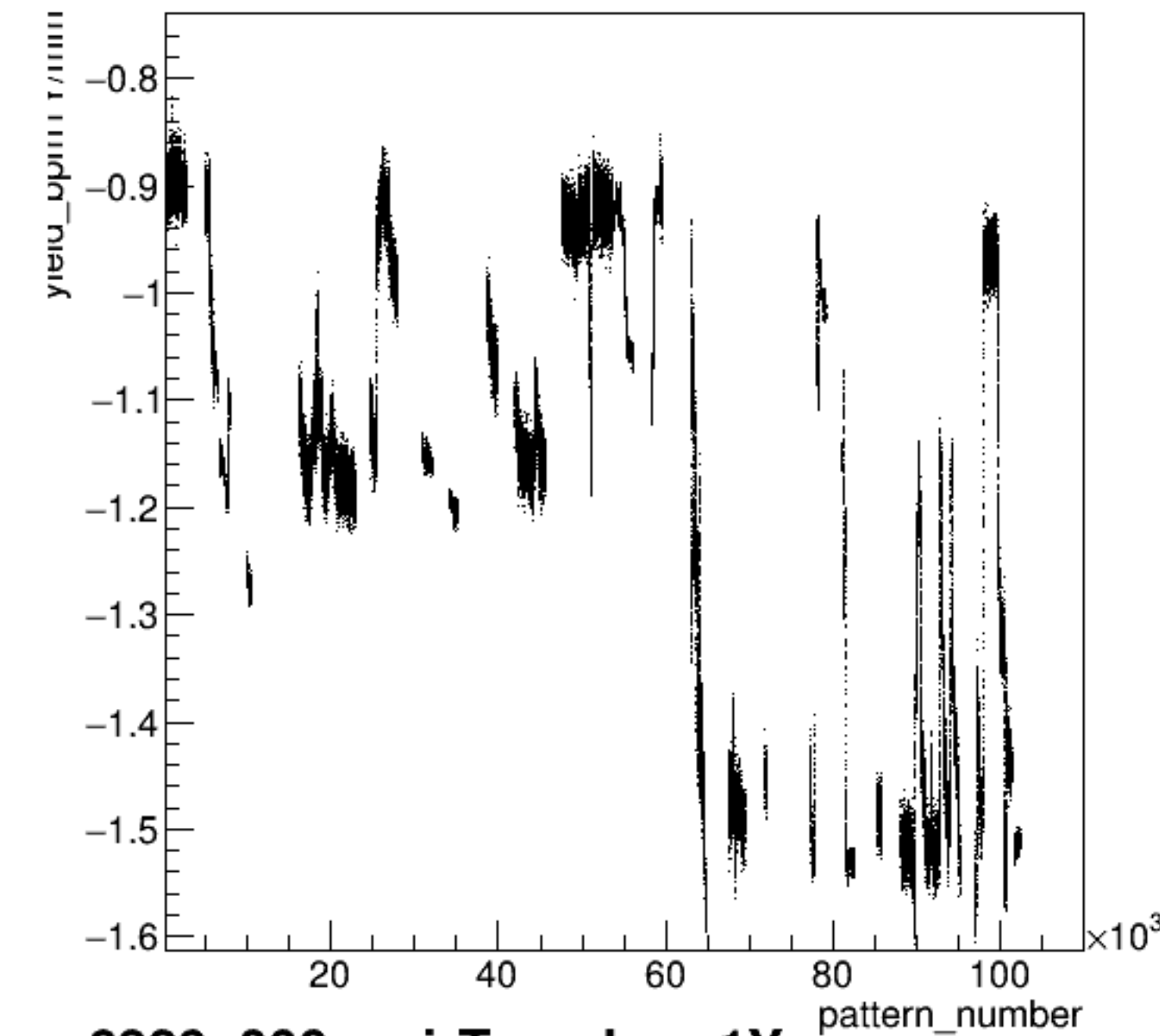




run6329_000_pairTree_bpm1X.png

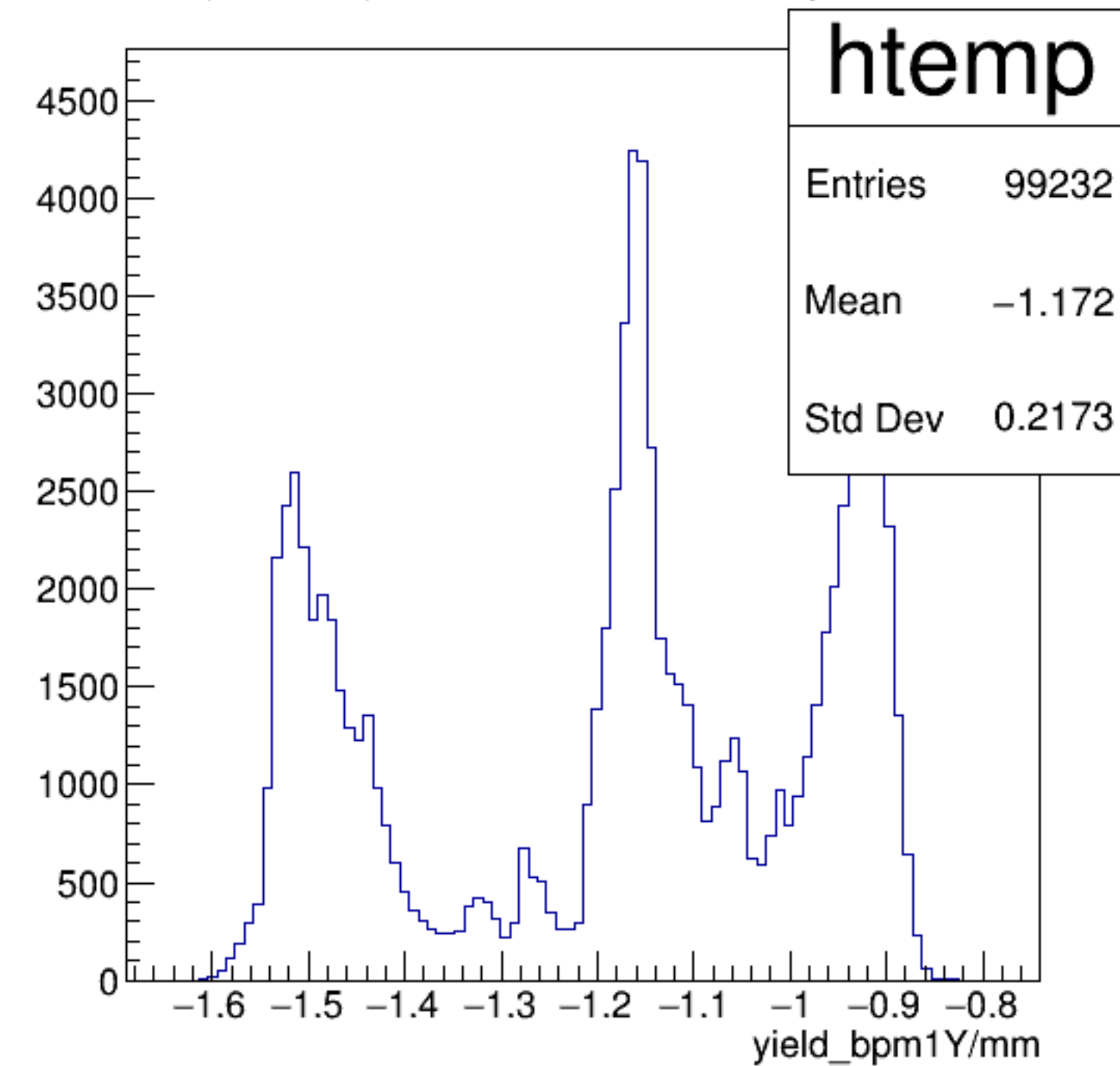


yield_bpm1Y/mm:pattern_number {ErrorFlag==0}

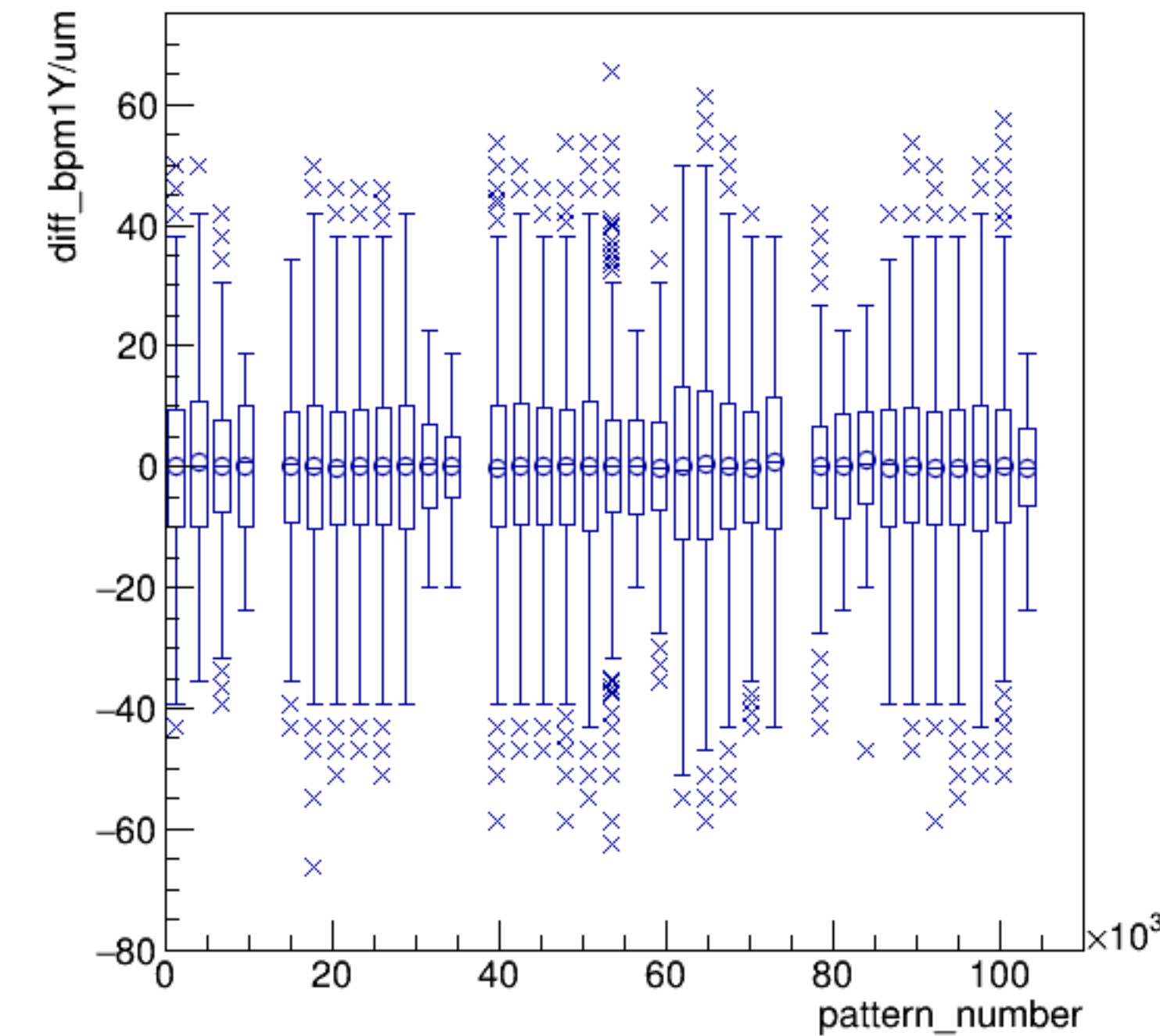


run6329_000_pairTree_bpm1Y.png

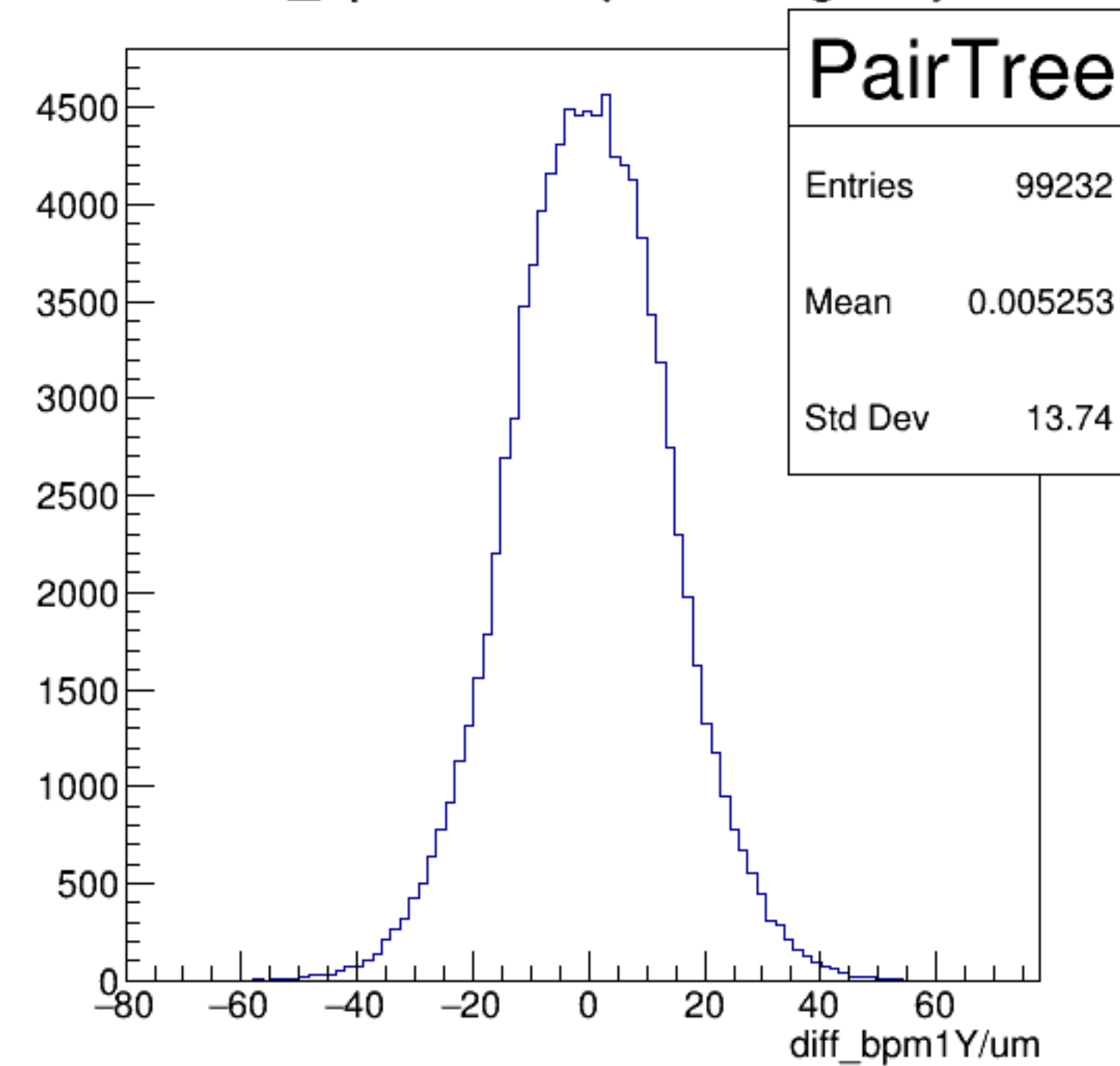
yield_bpm1Y/mm {ErrorFlag==0}



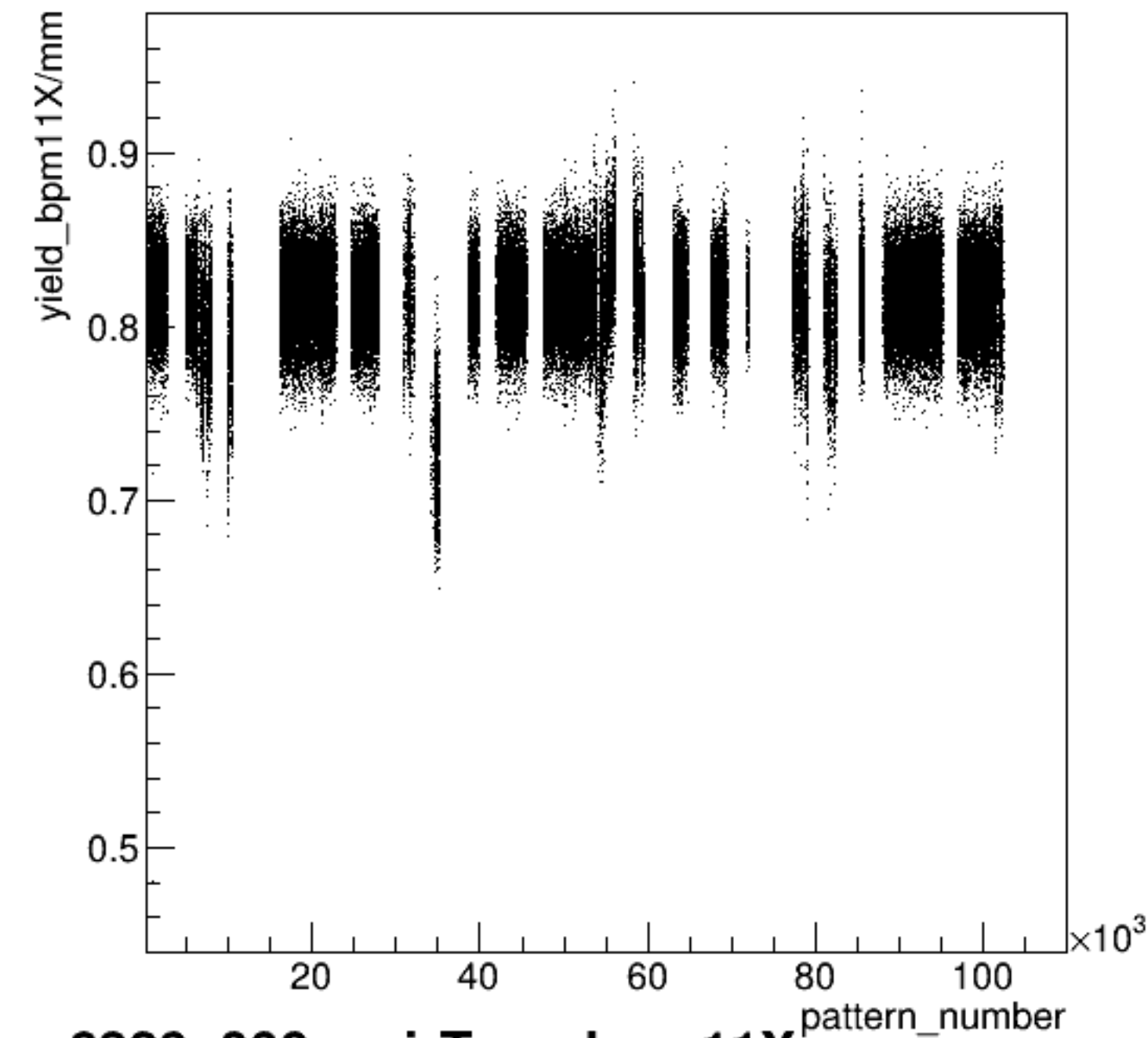
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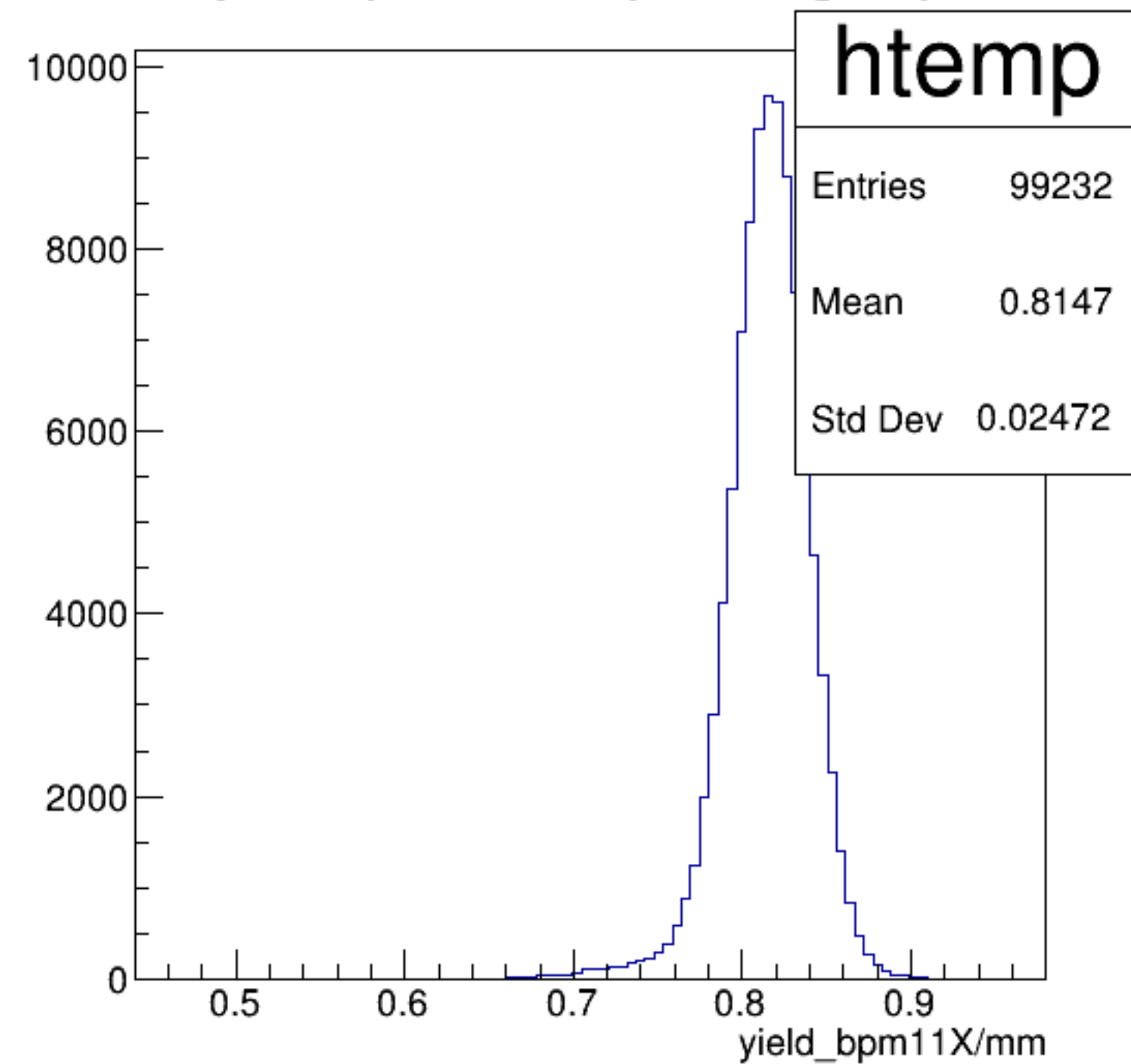
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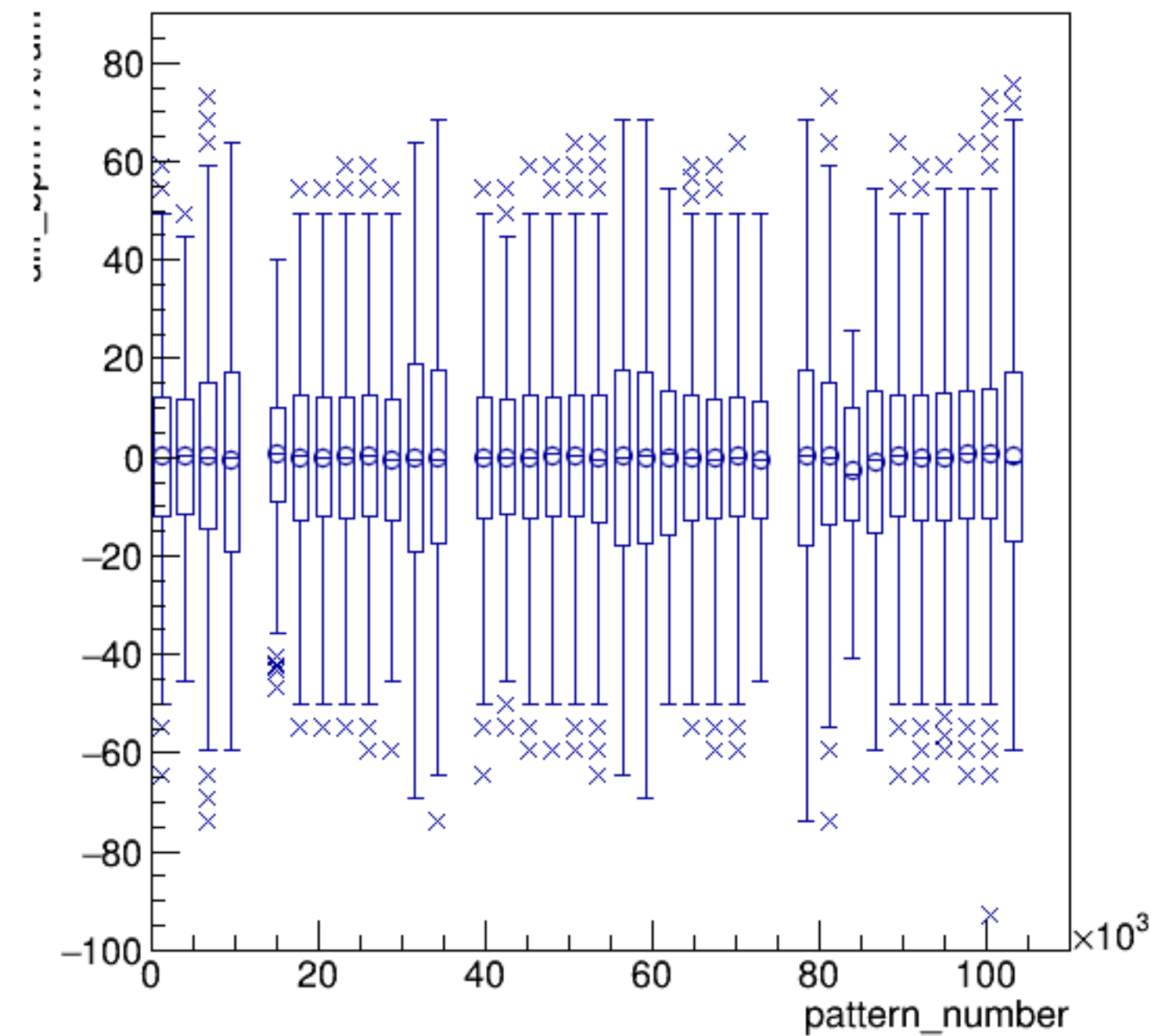
yield_bpm11X/mm:pattern_number {ErrorFlag==0}



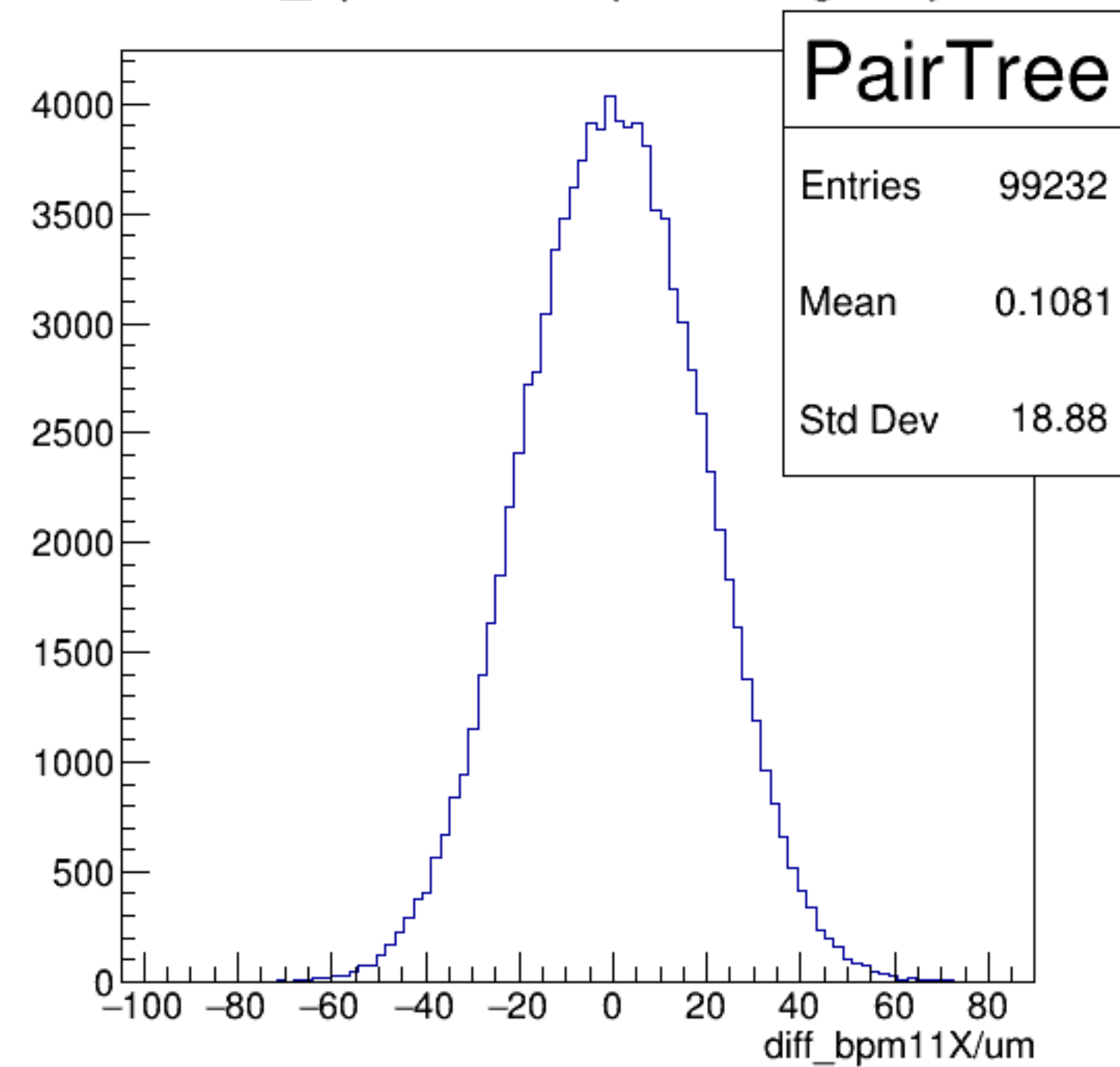
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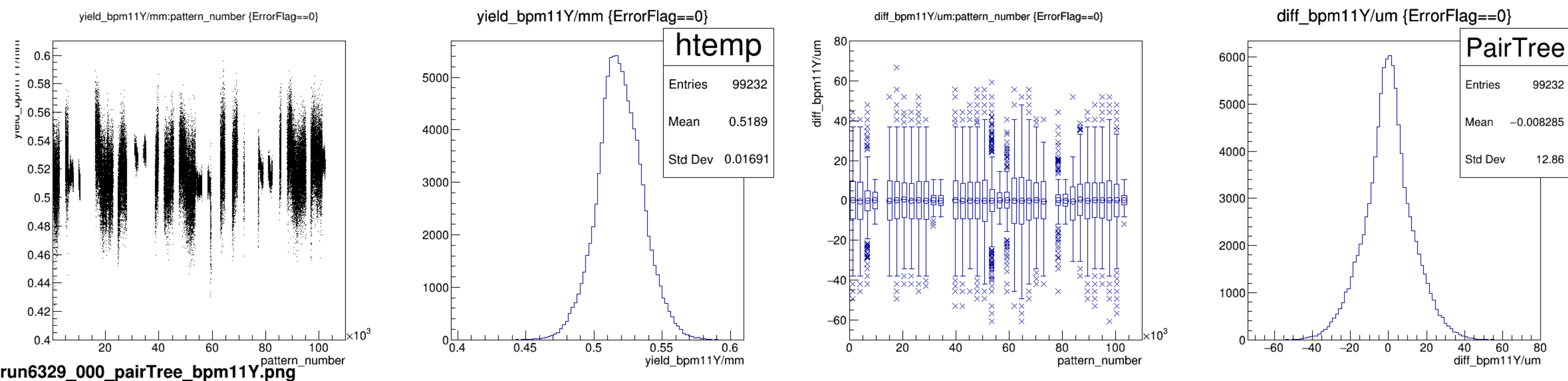


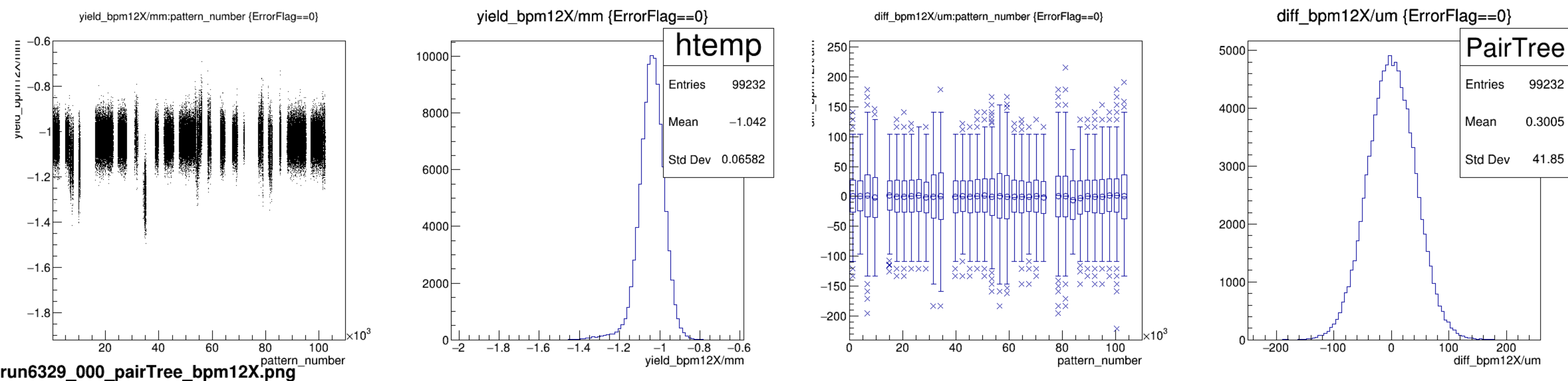
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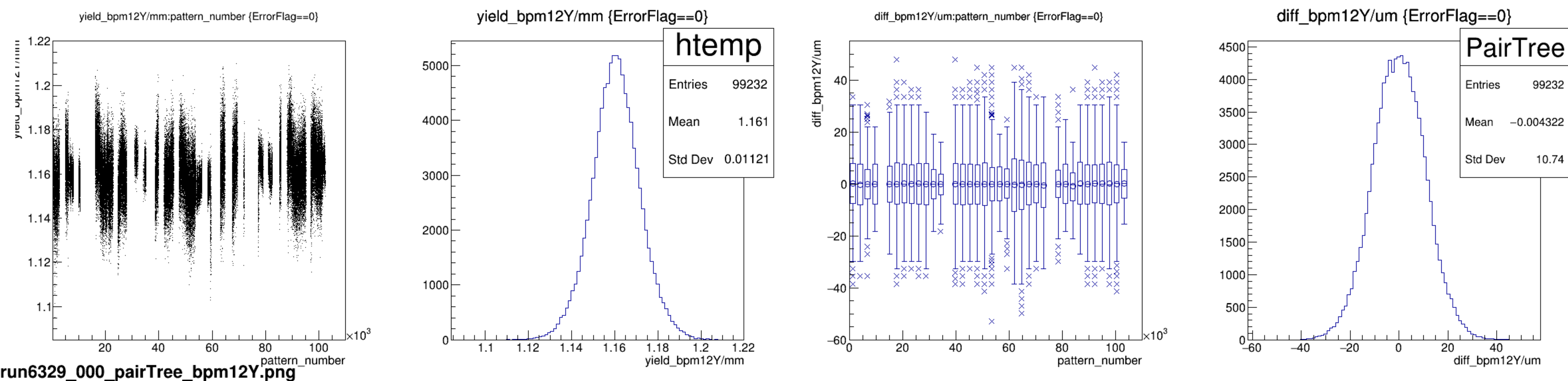


diff_bpm11X/um {ErrorFlag==0}

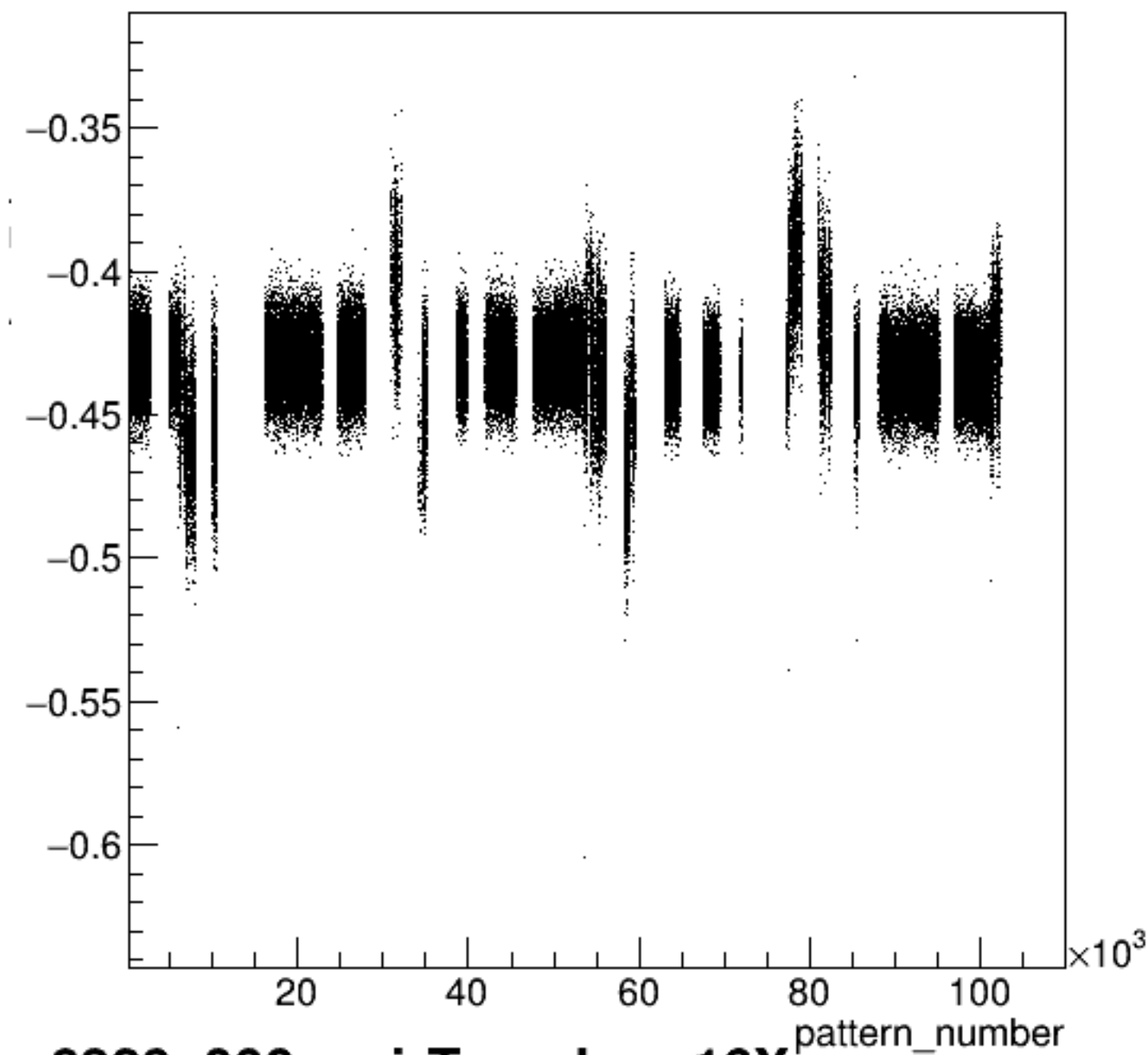






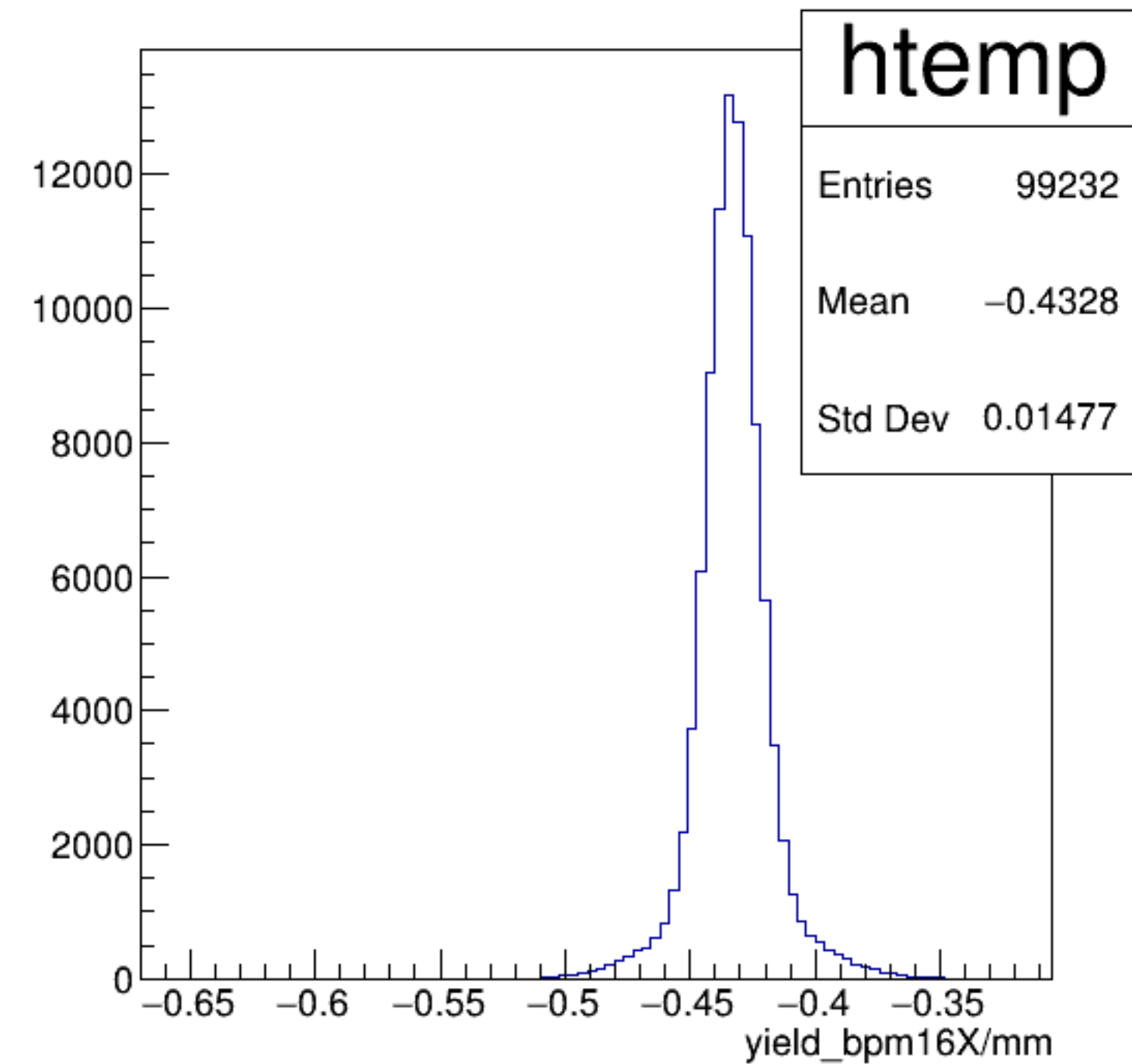


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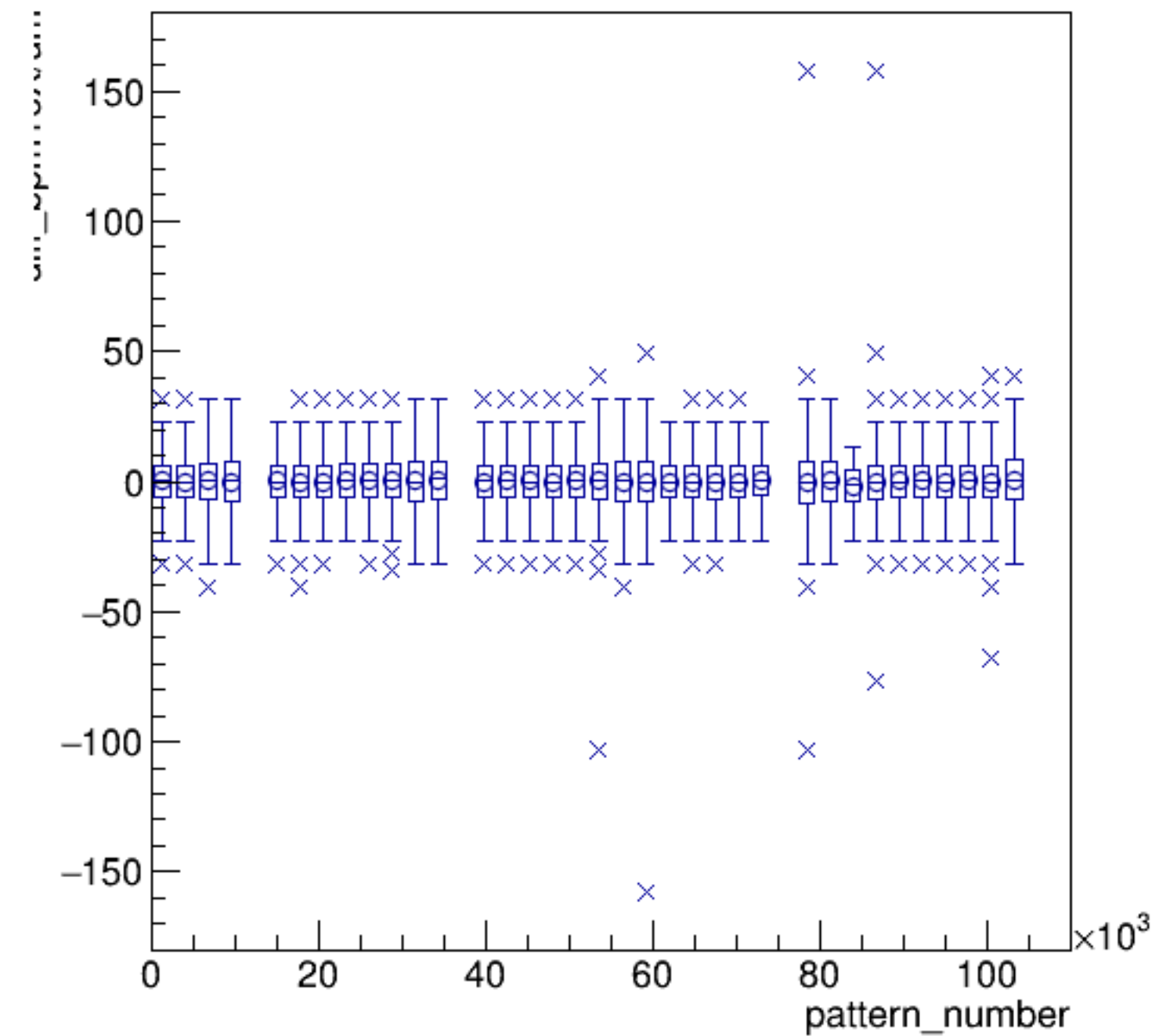


run6329_000_pairTree_bpm16X.png

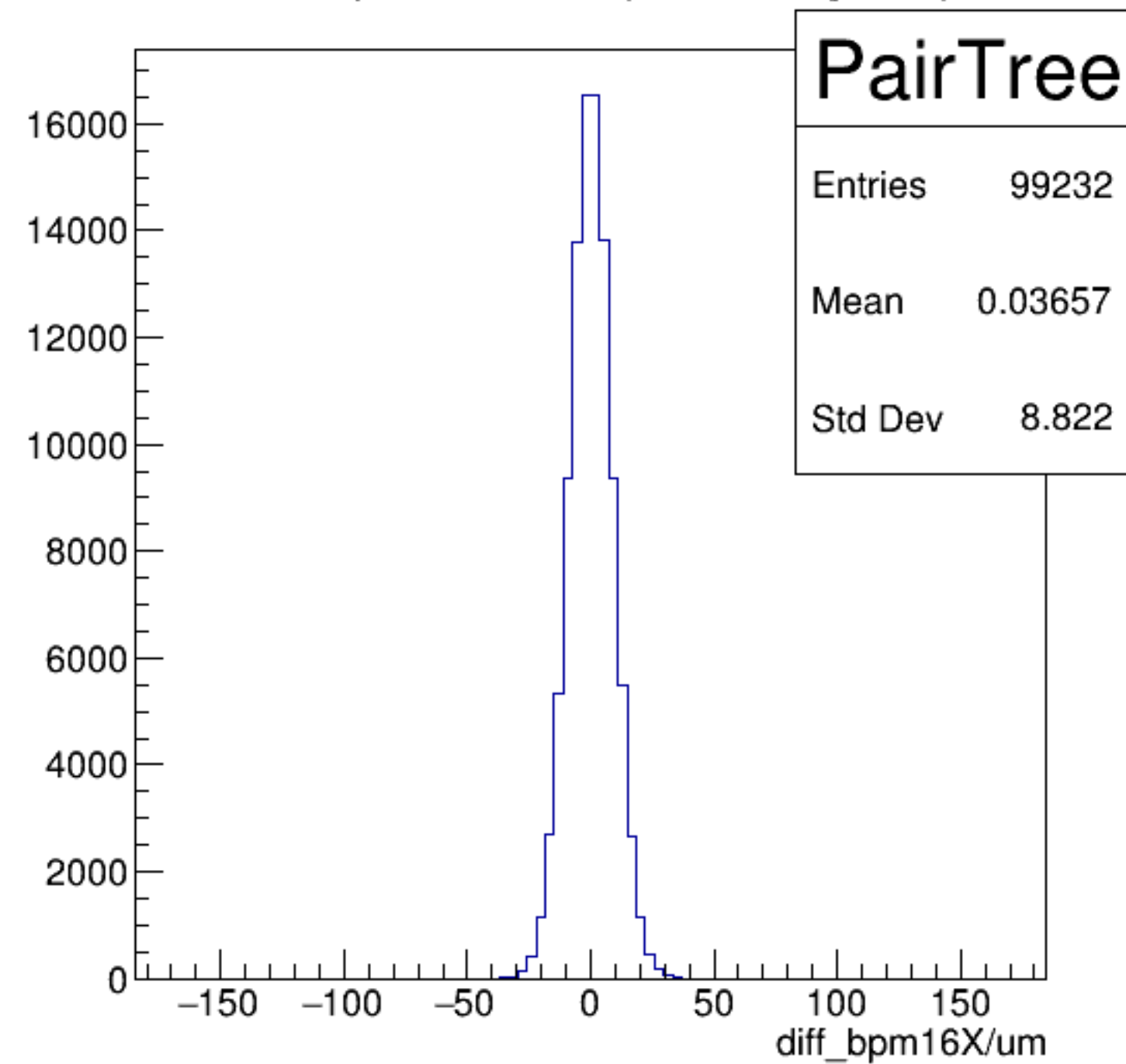
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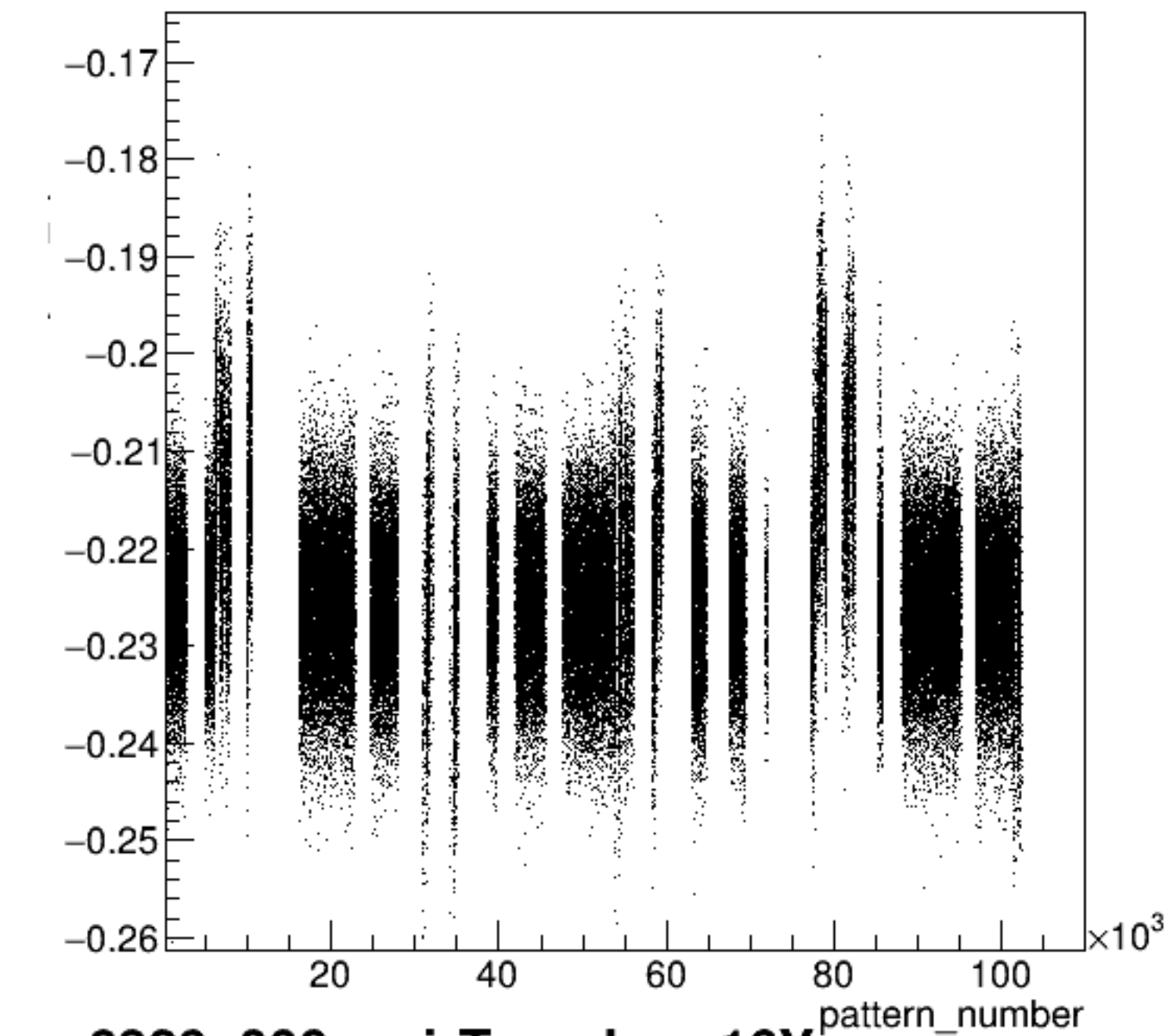
diff_bpm16X/um:pattern_number {ErrorFlag==0}



diff_bpm16X/um {ErrorFlag==0}

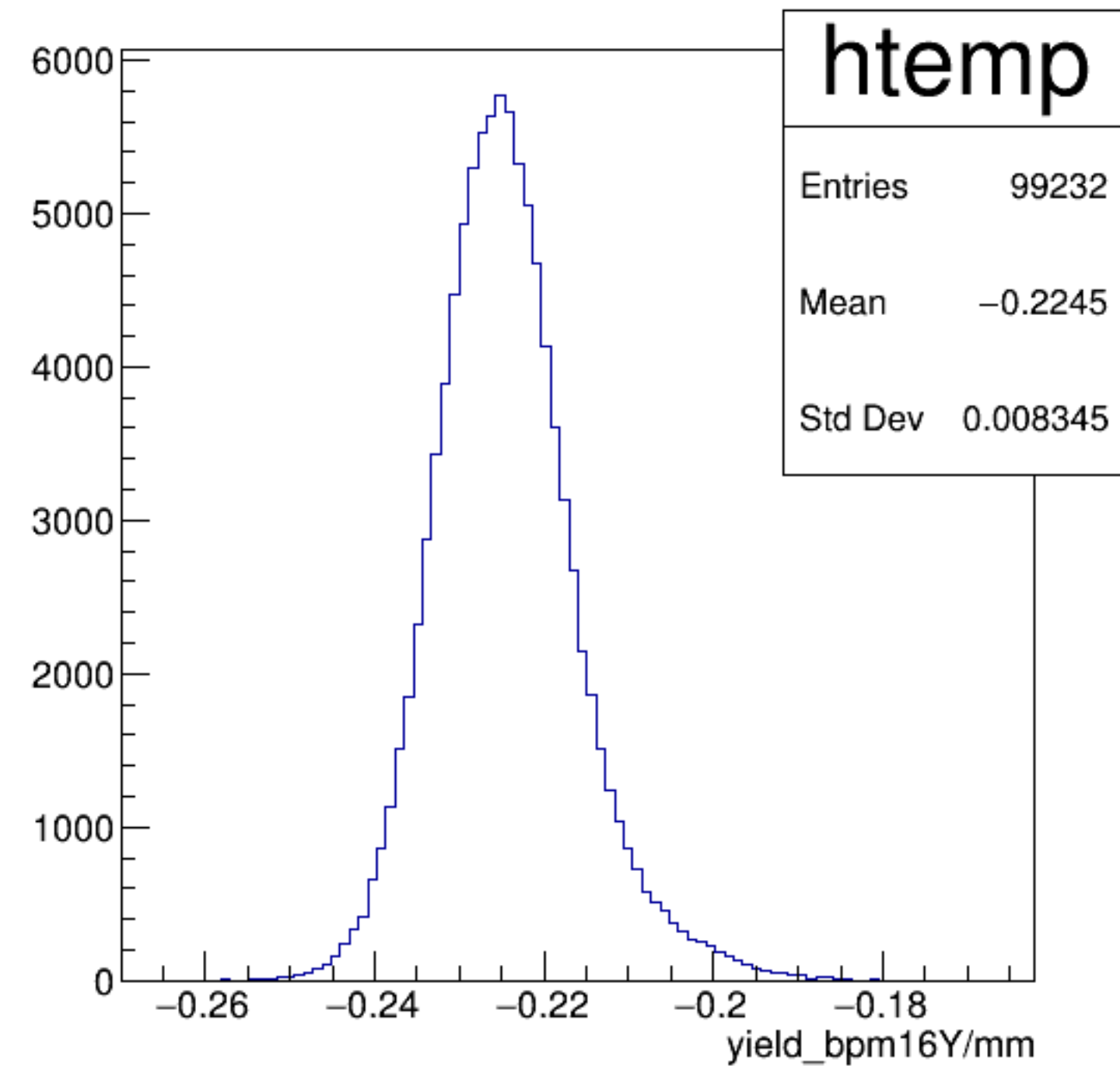


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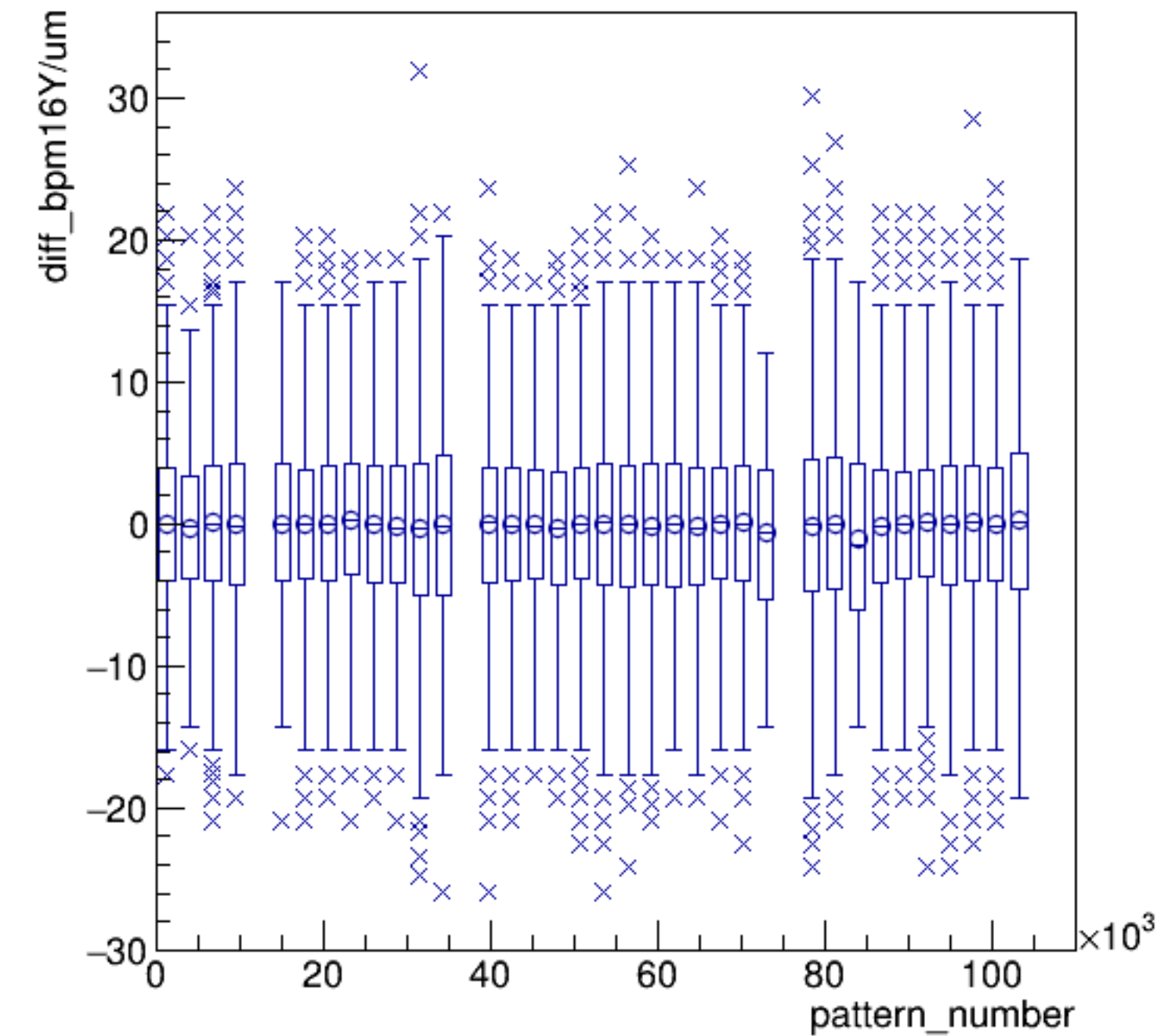


run6329_000_pairTree_bpm16Y.png

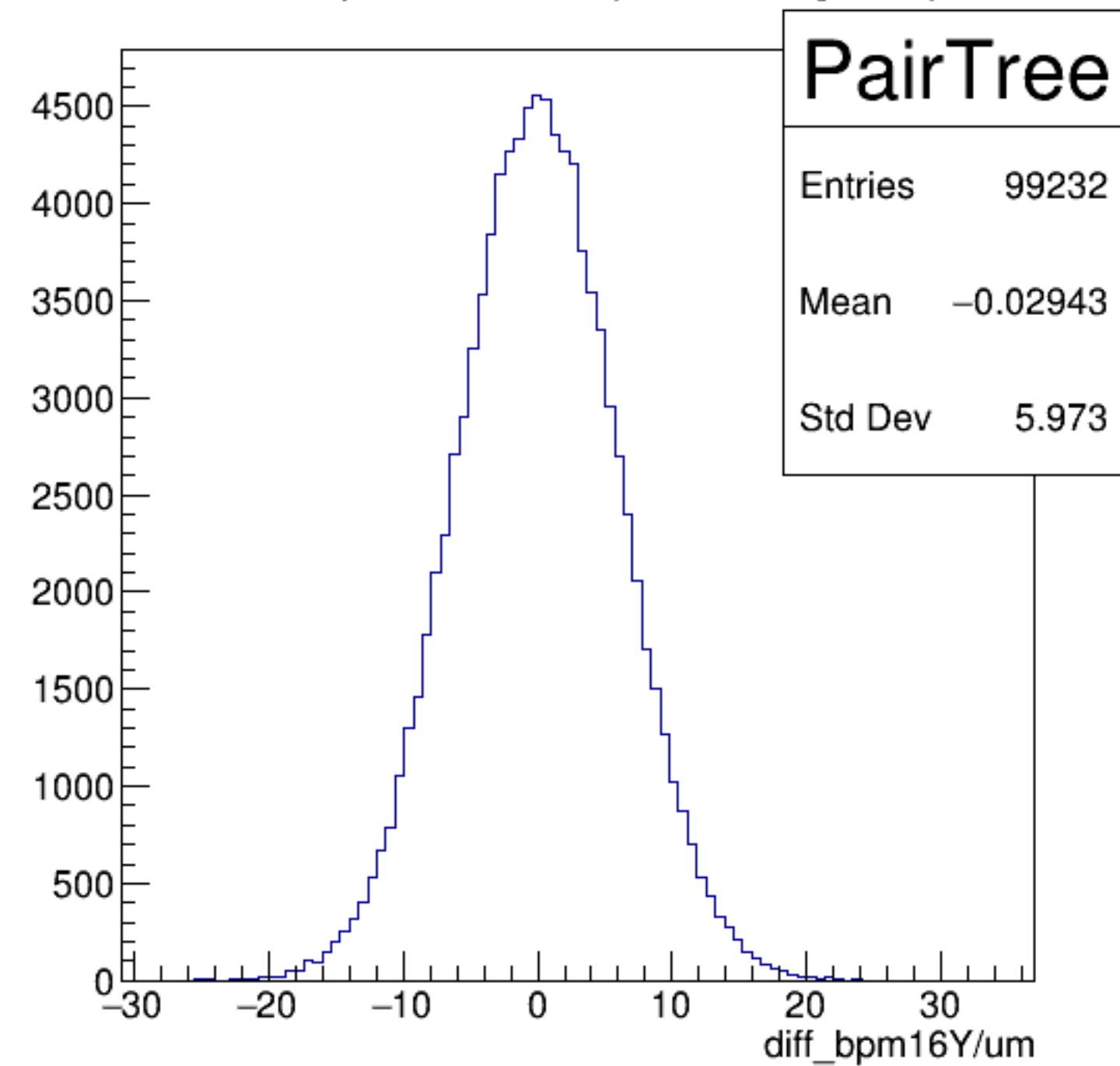
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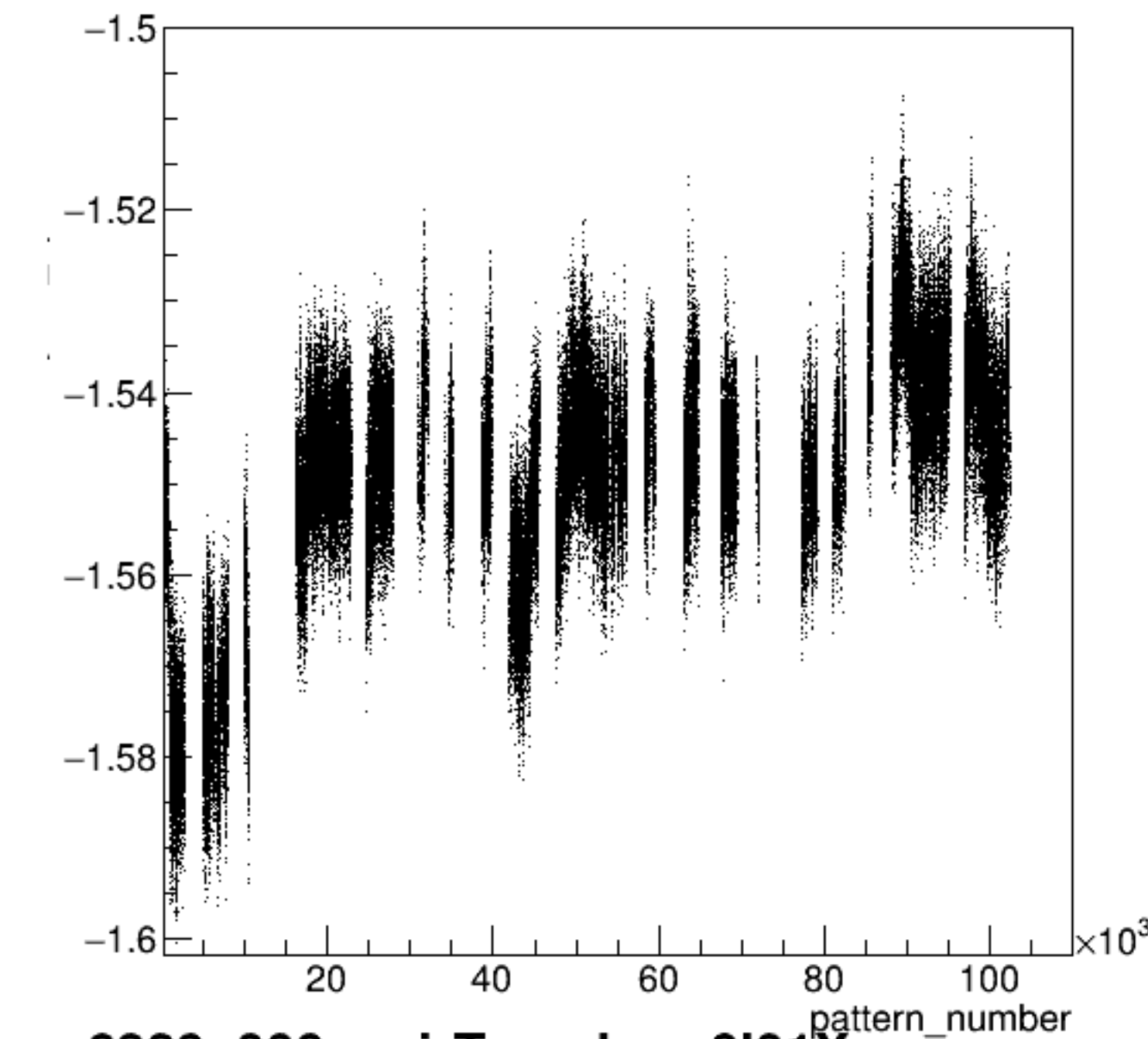
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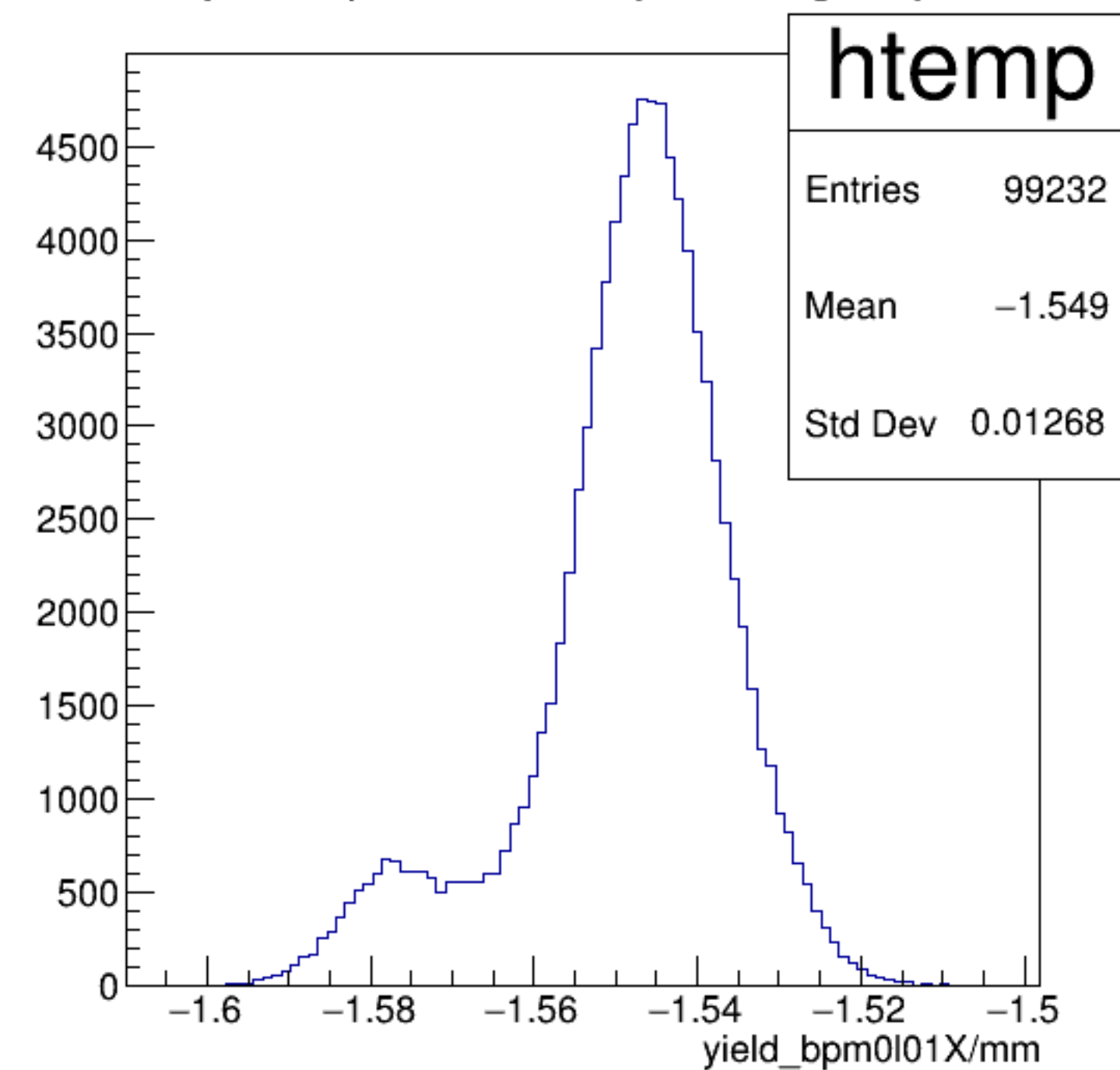
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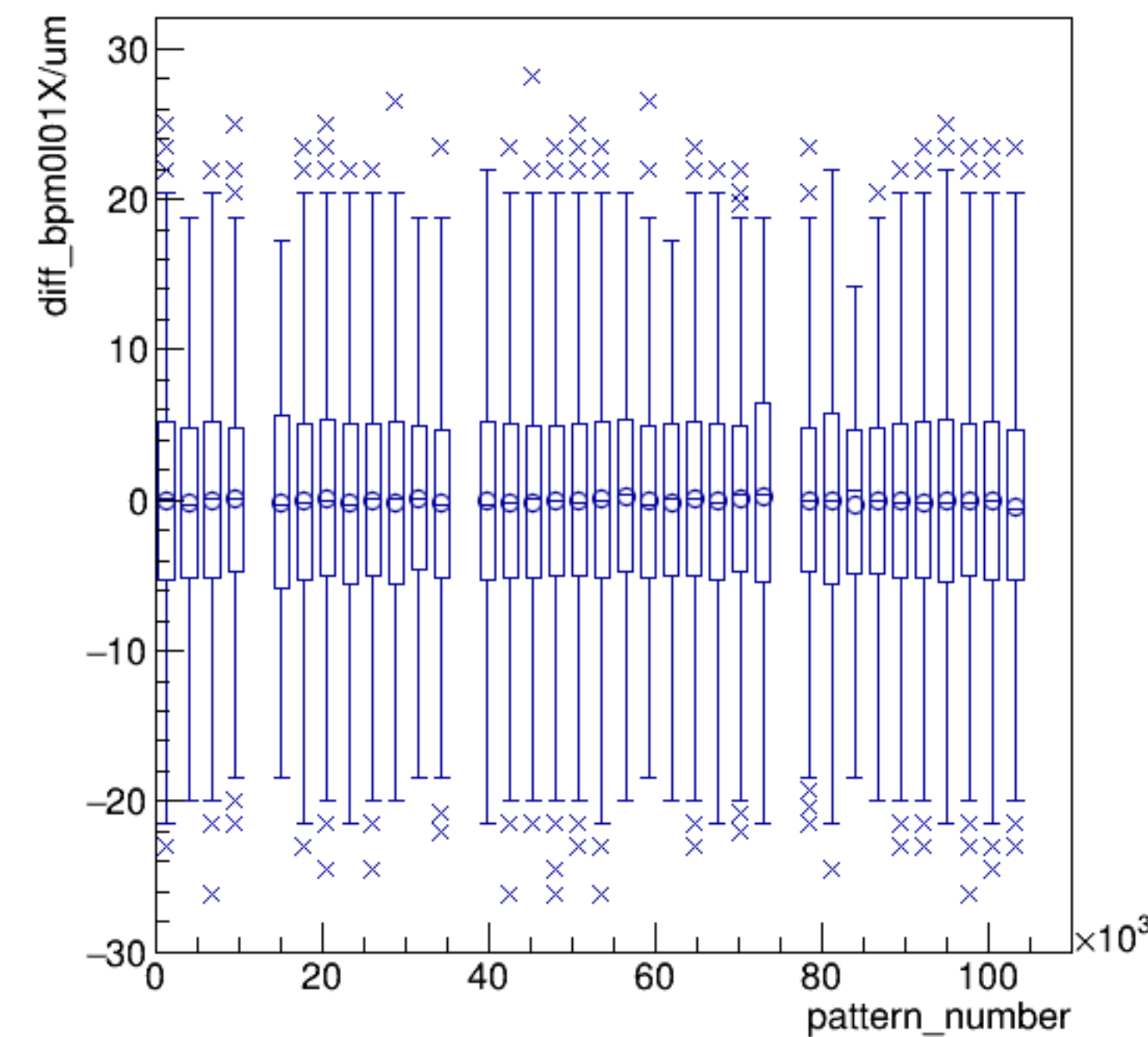
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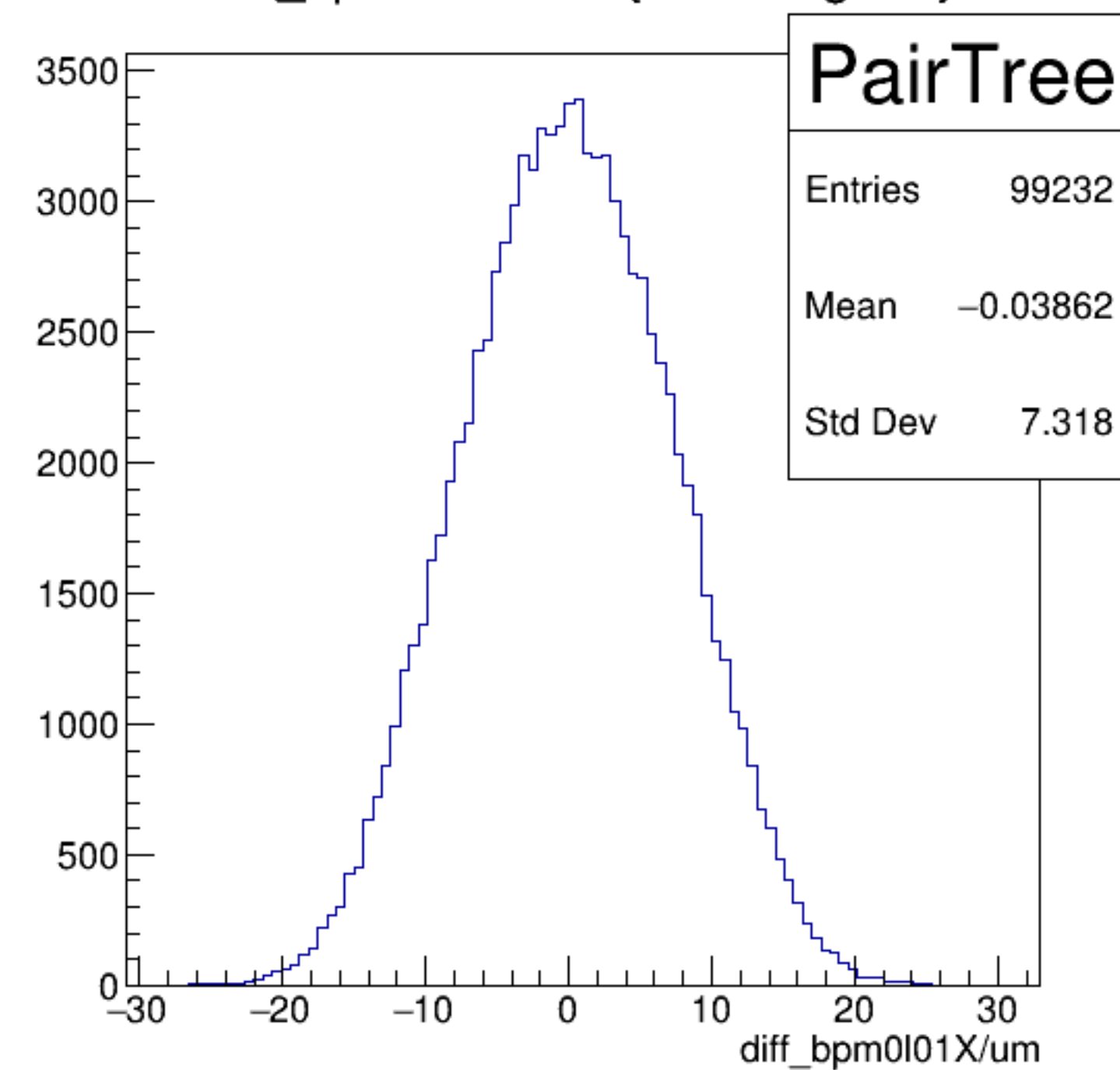
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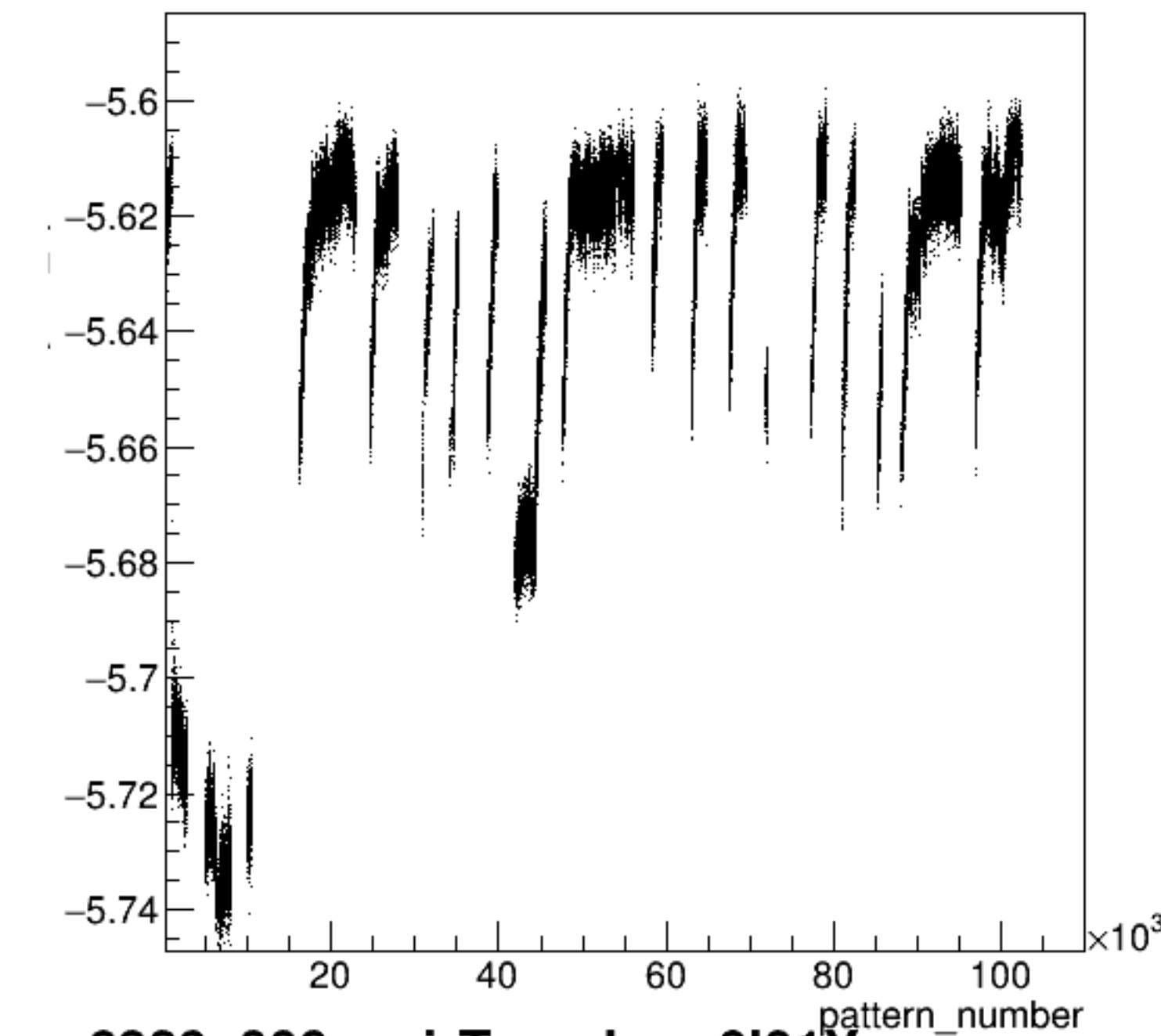
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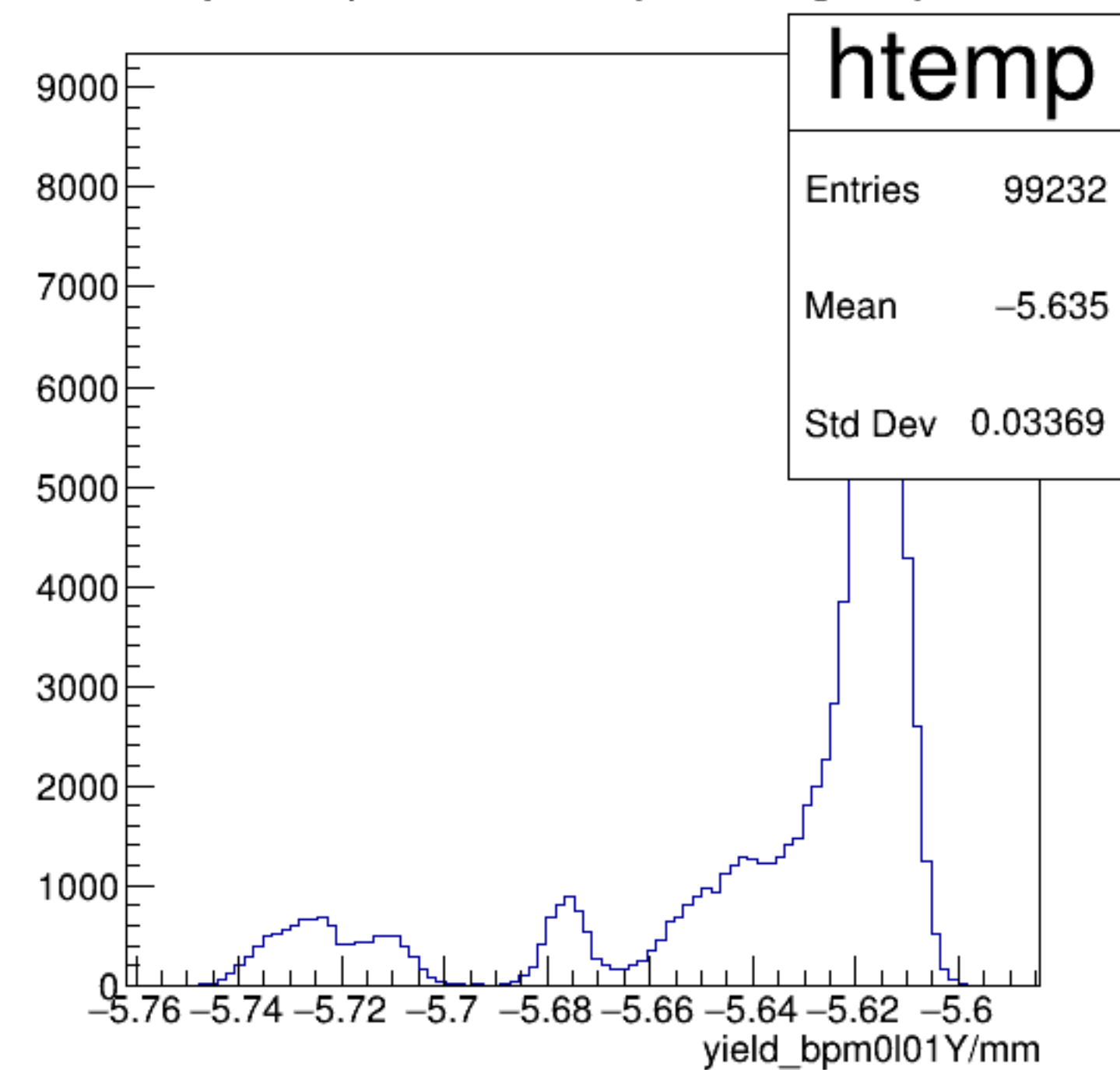
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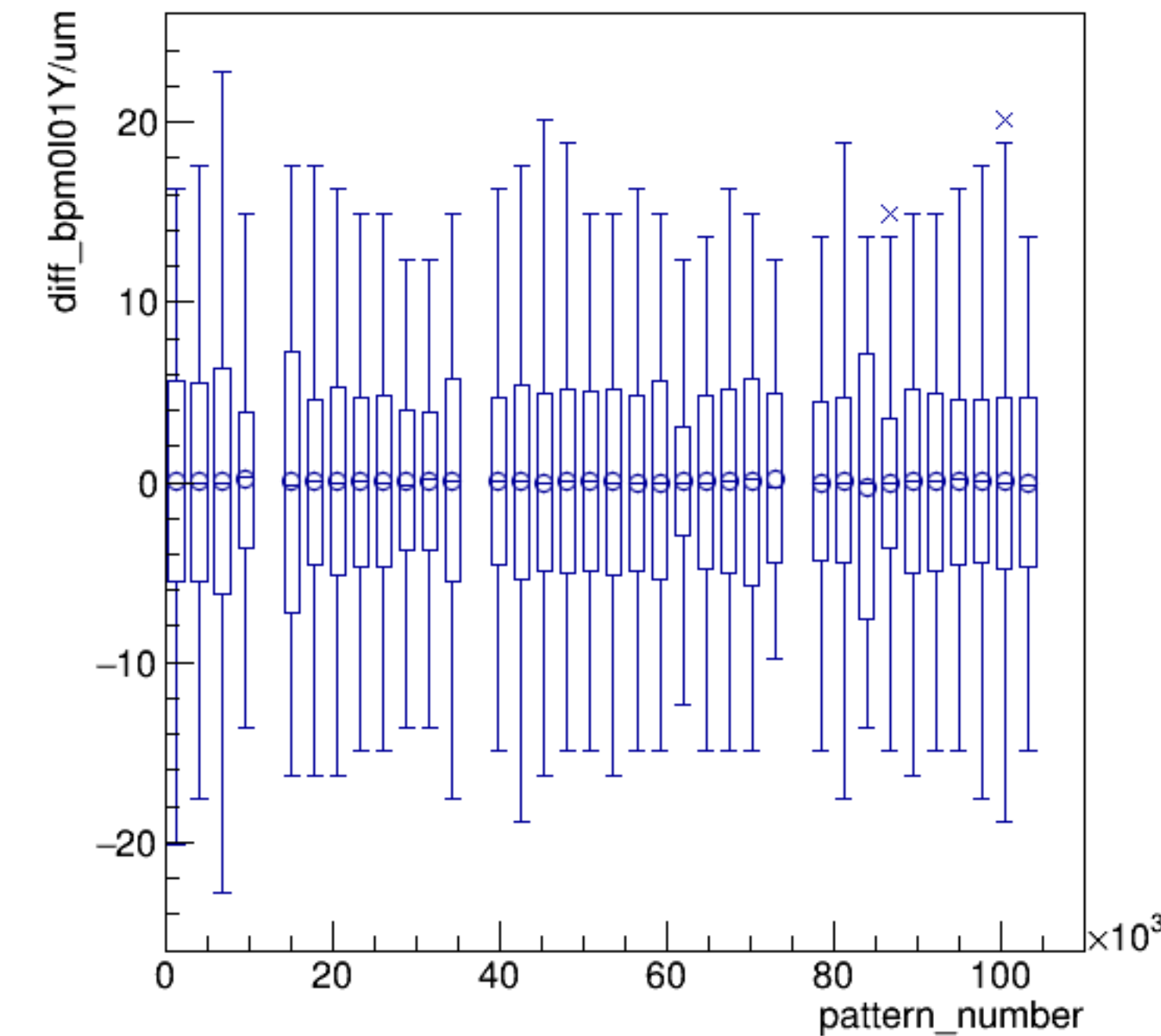
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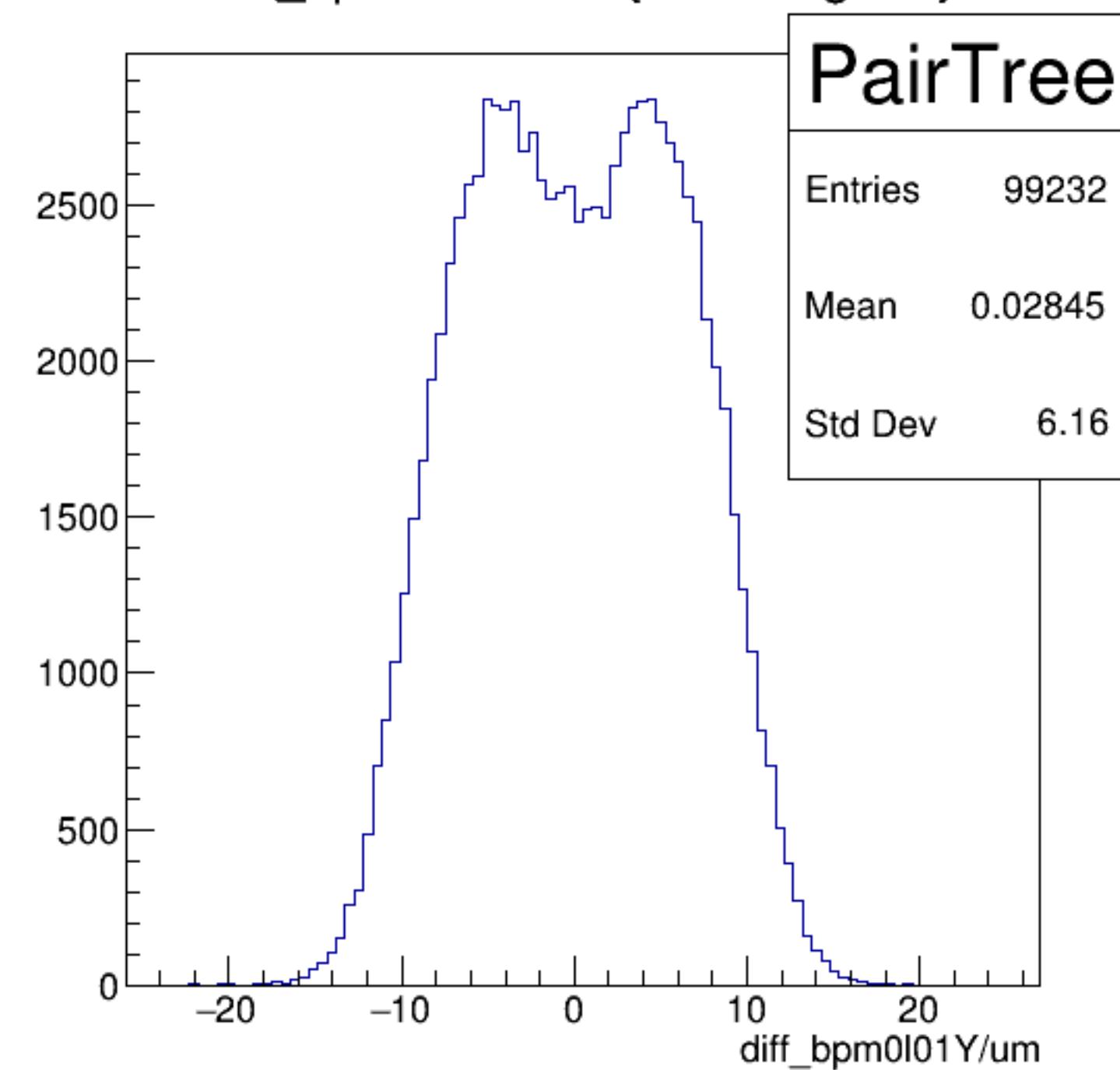
yield_bpm0l01Y/mm {ErrorFlag==0}



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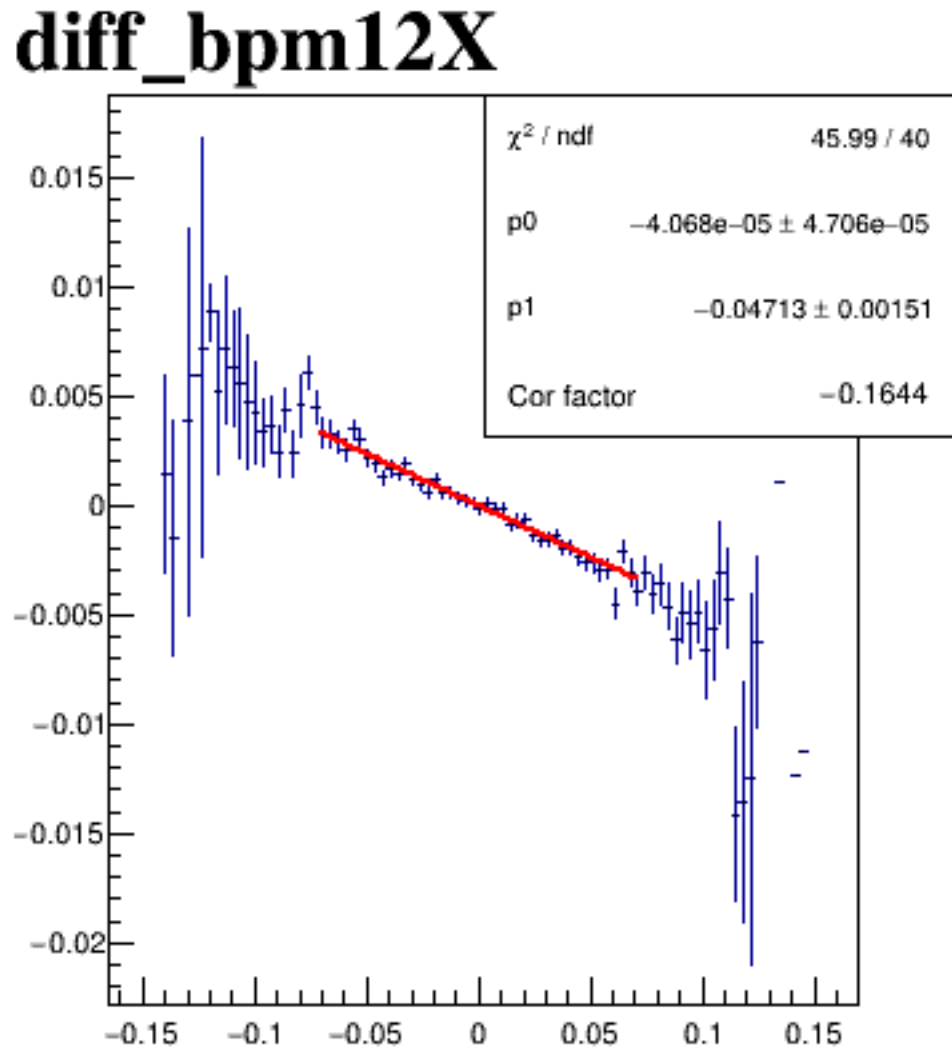
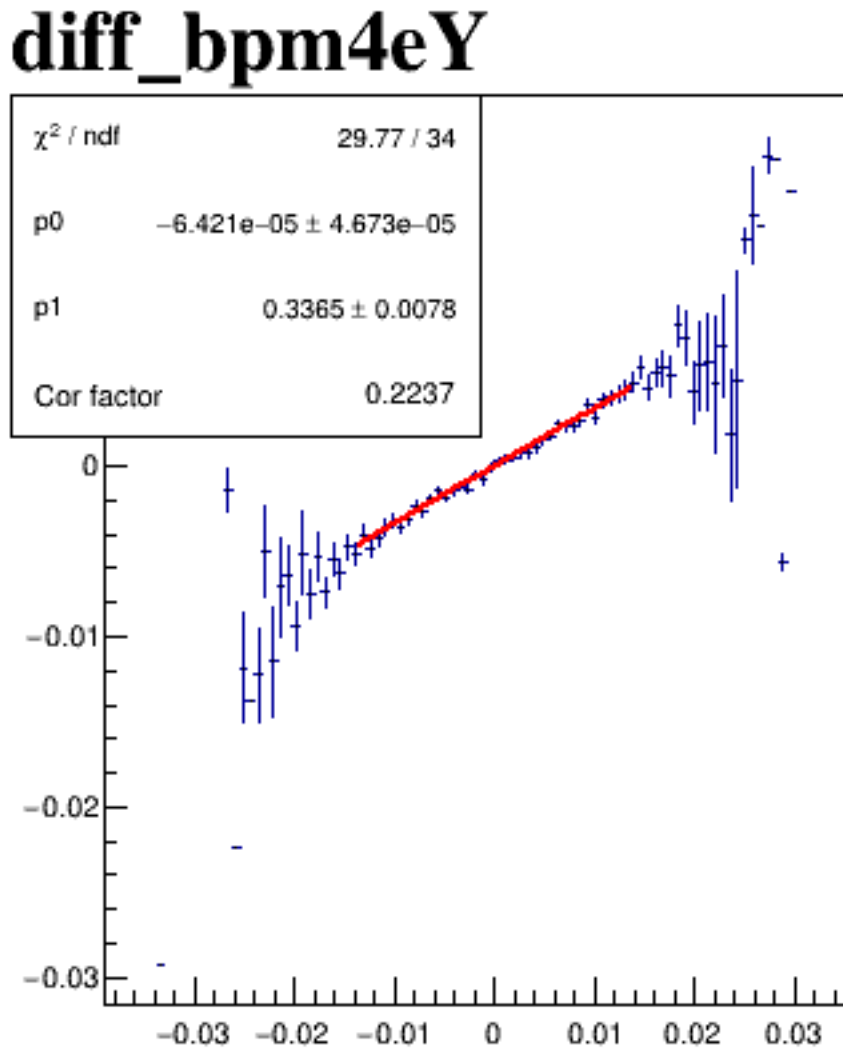
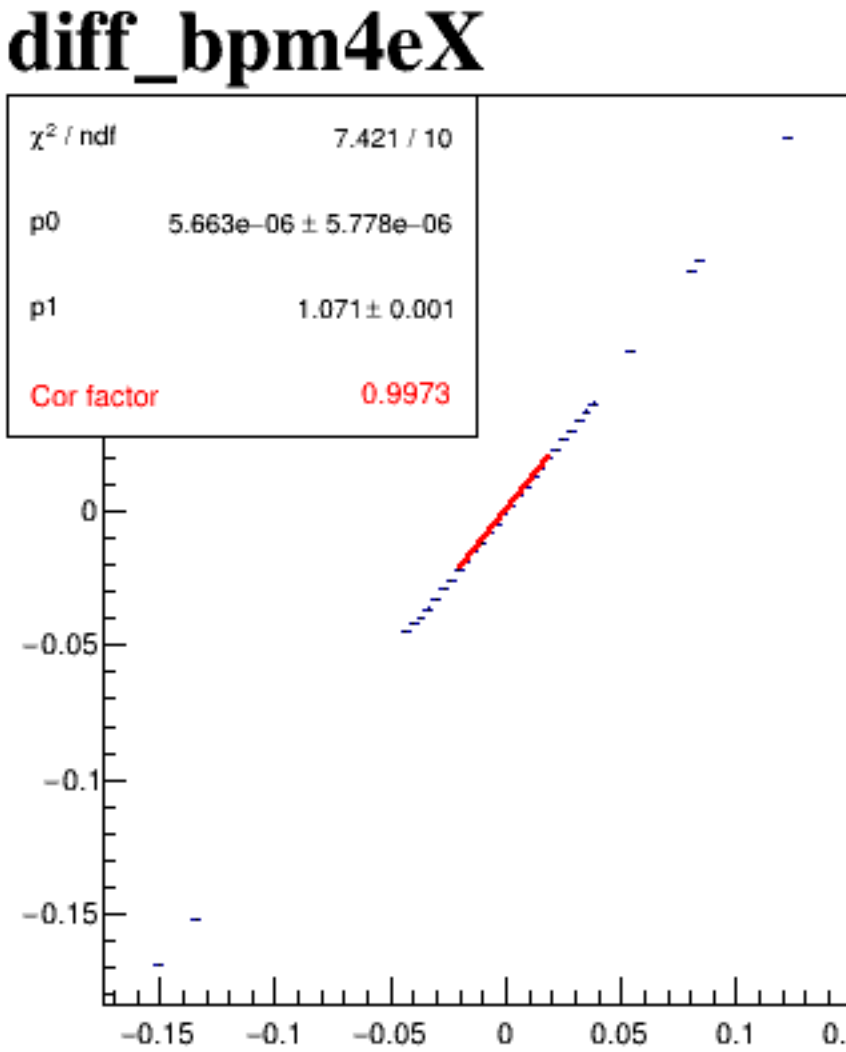
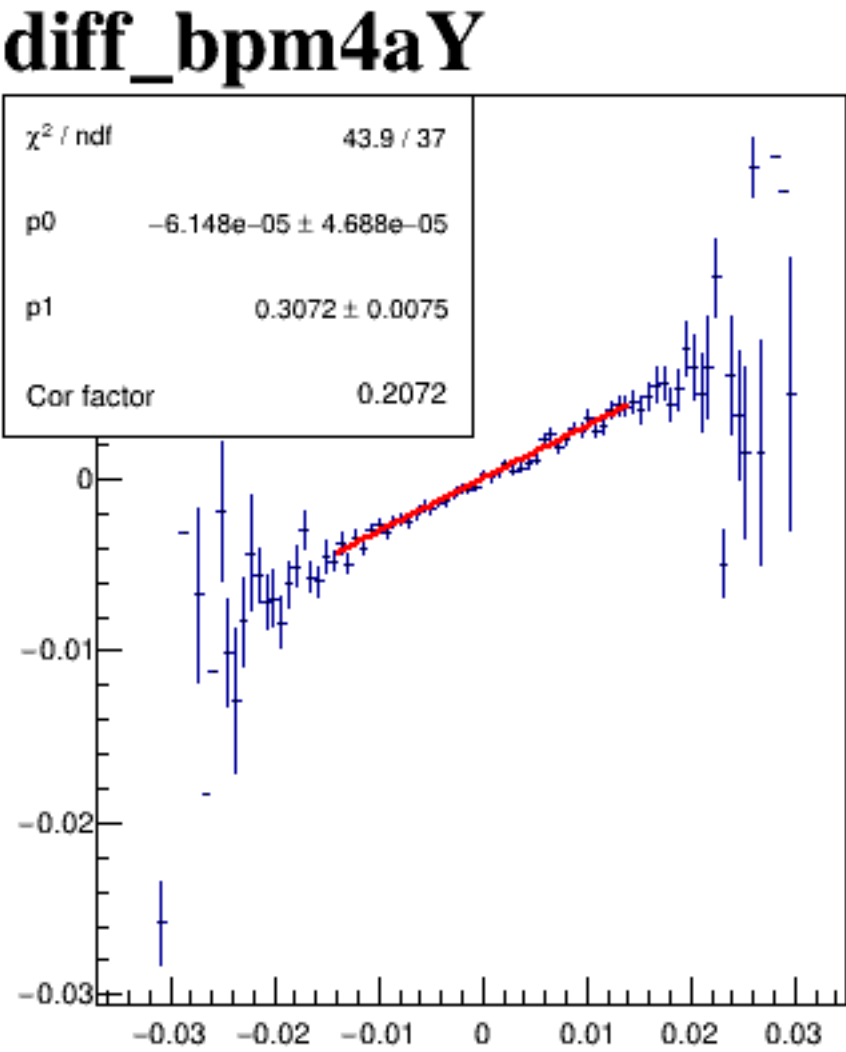
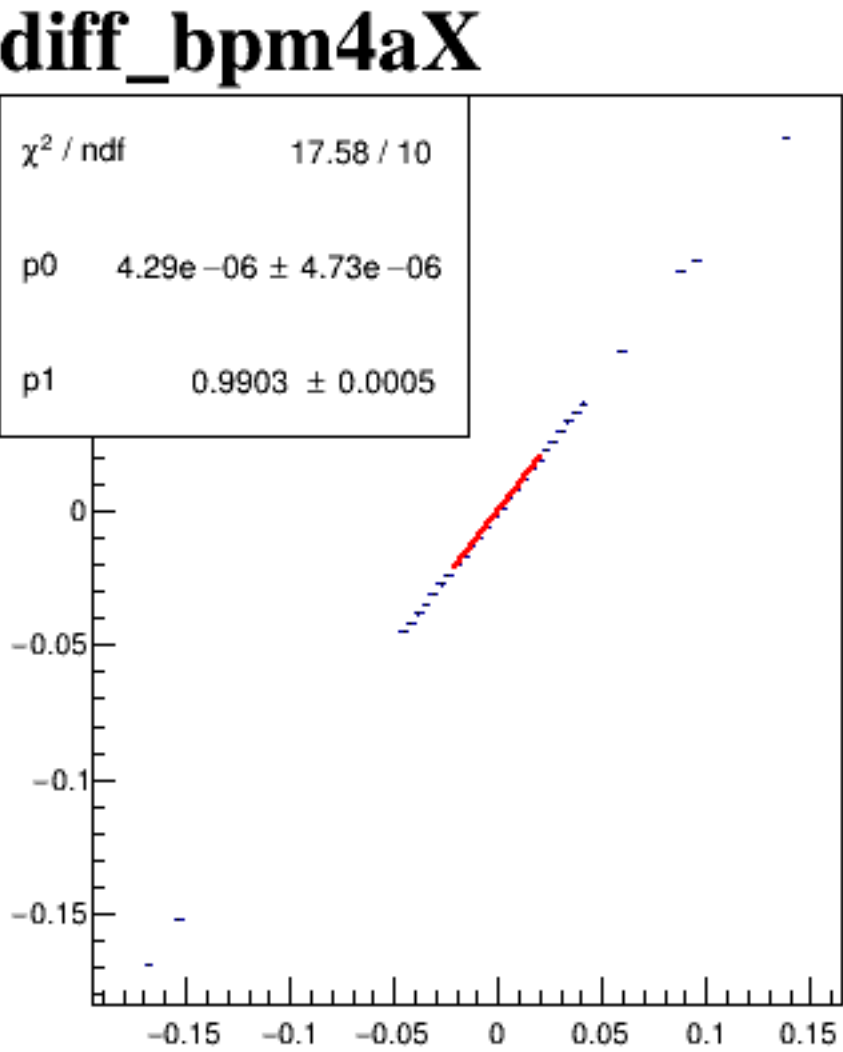


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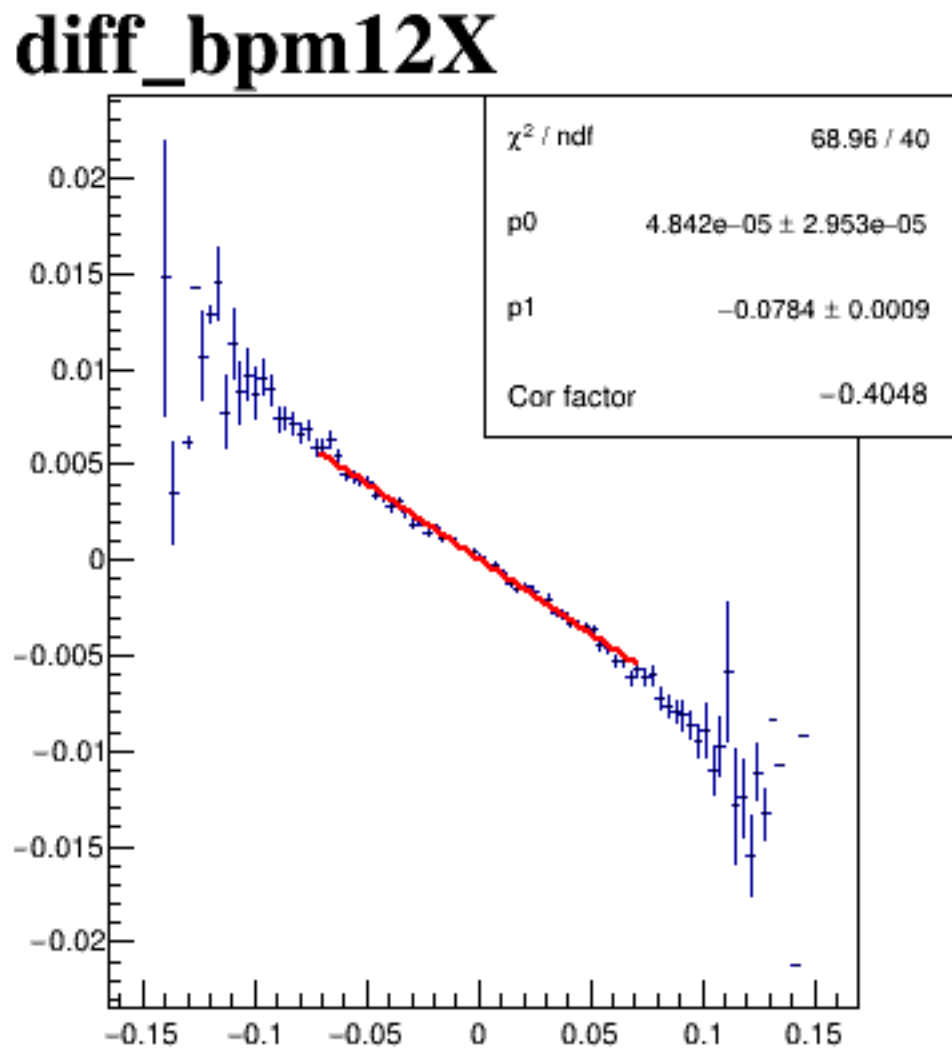
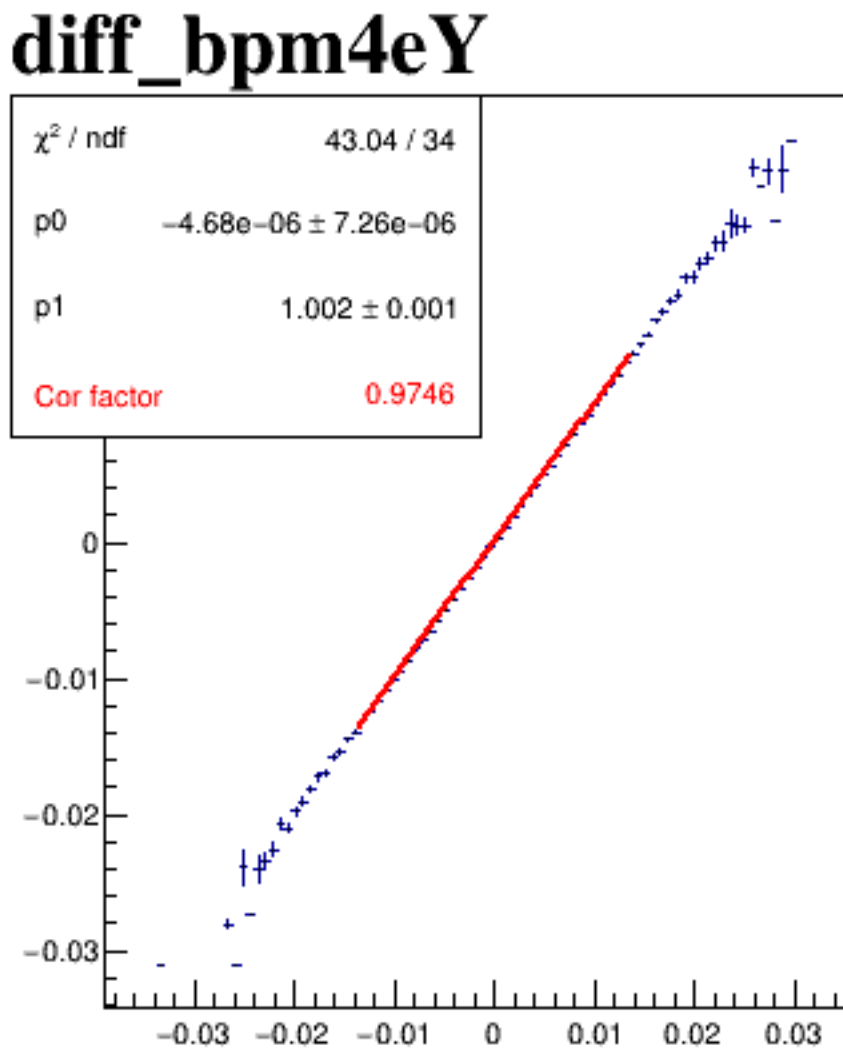
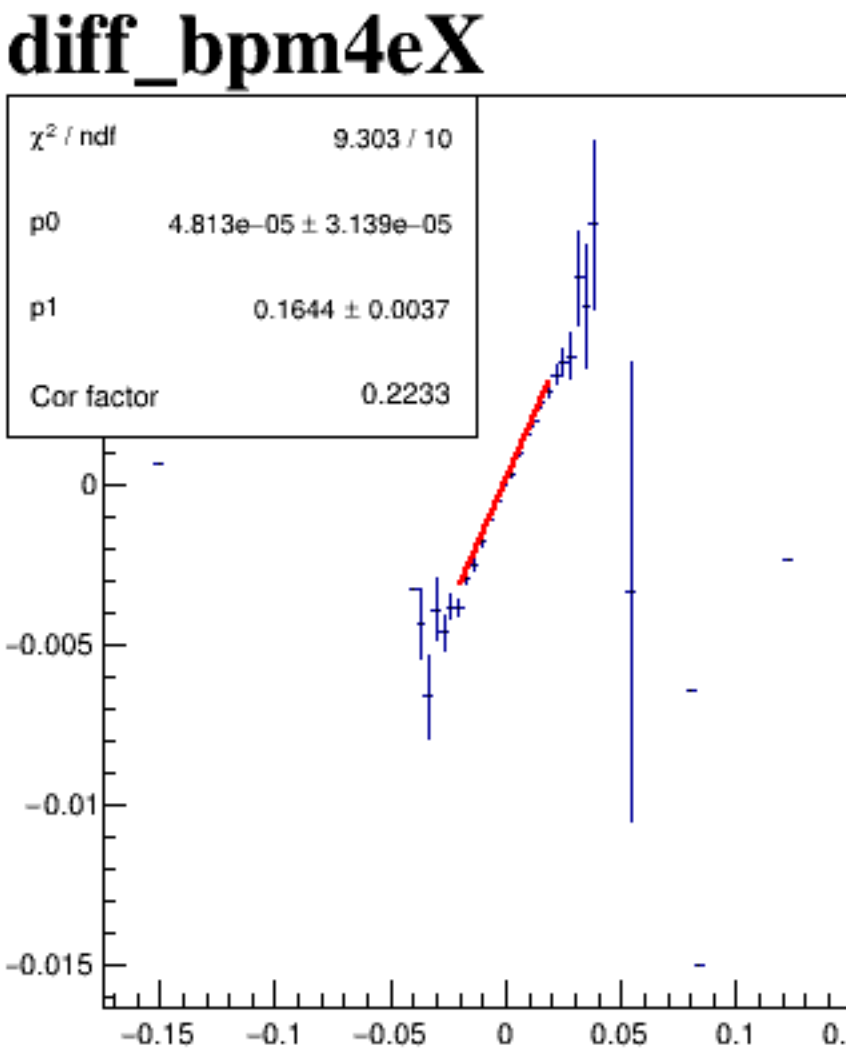
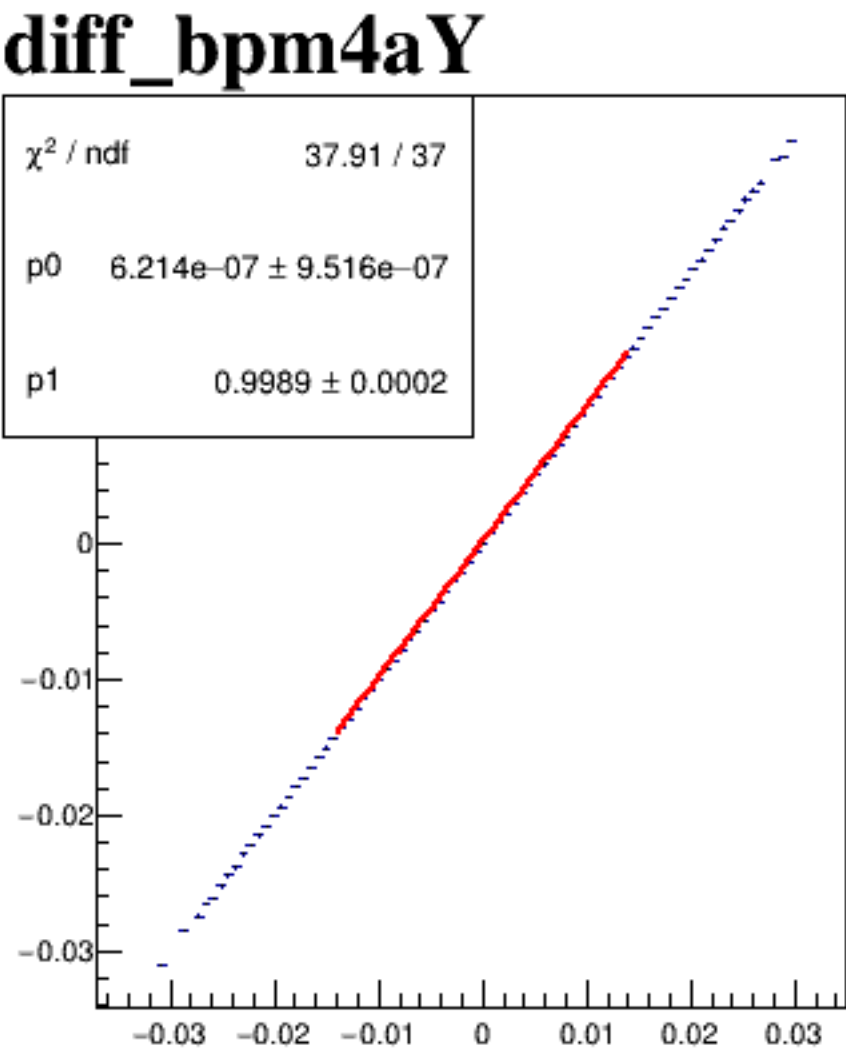
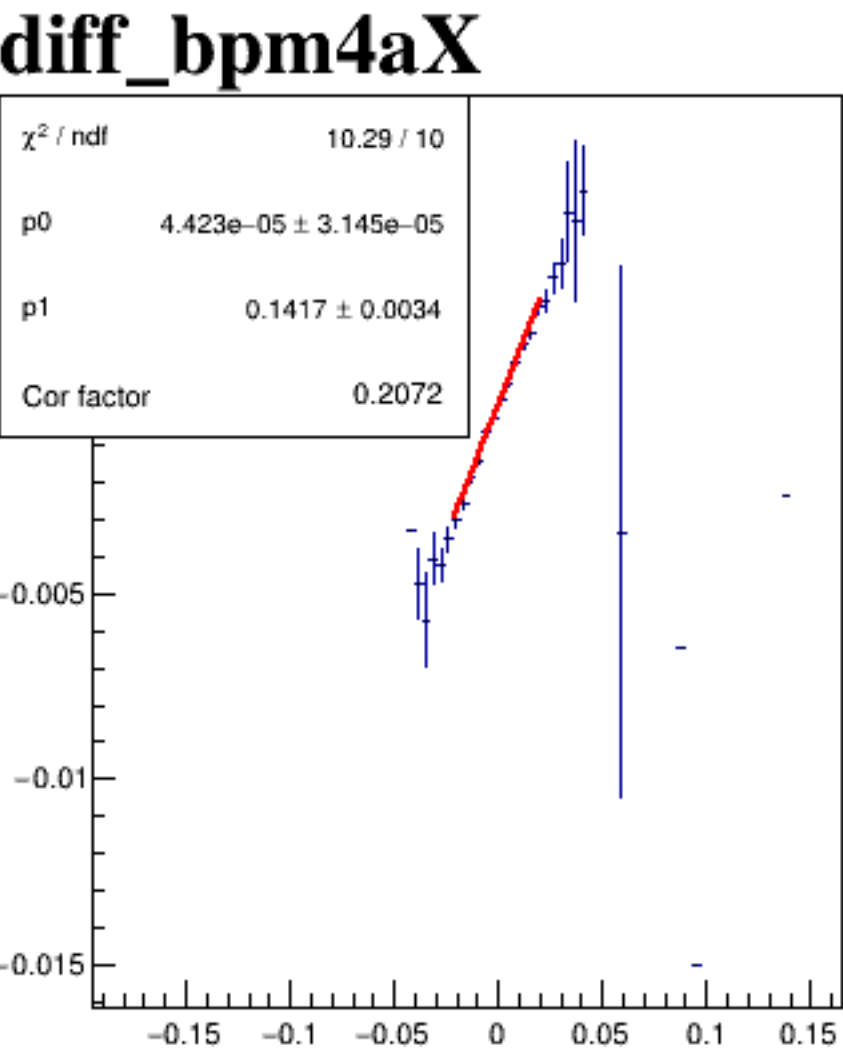


run6329_000_diff_bpm_mutual_correlation_COLZ_default.png

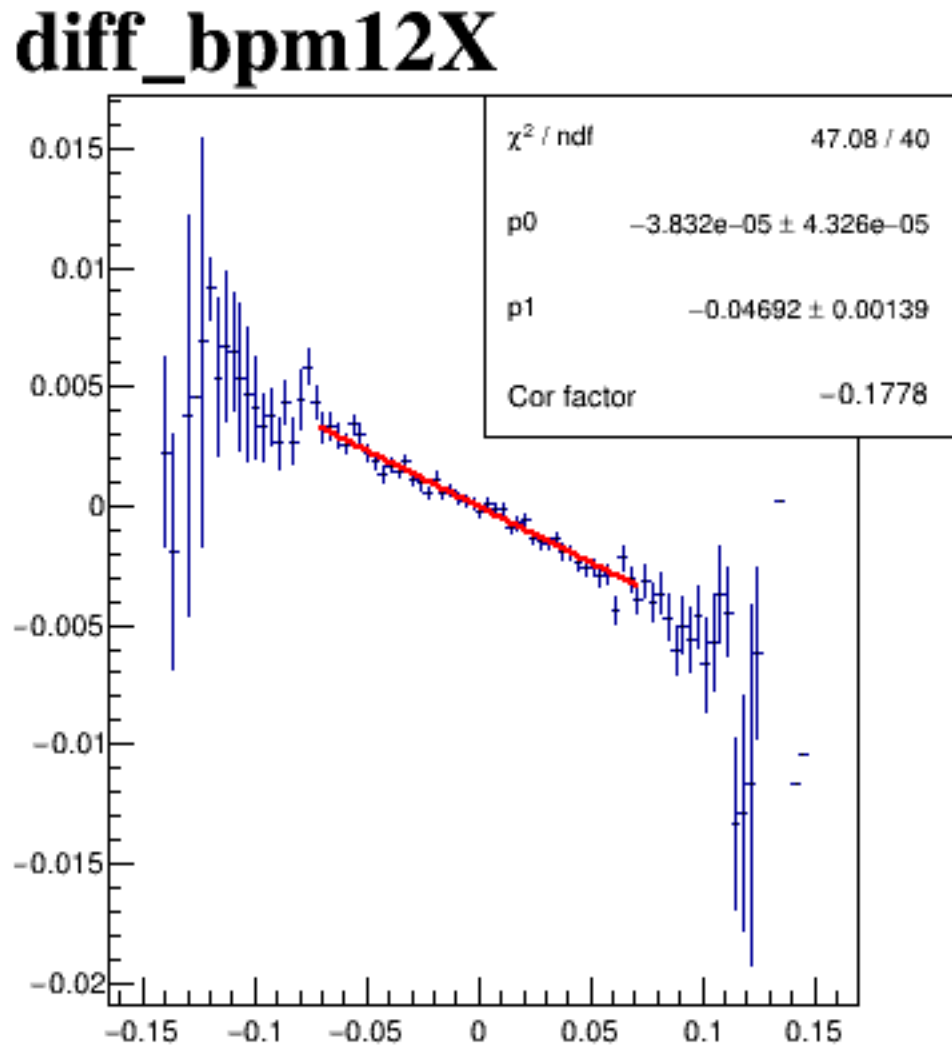
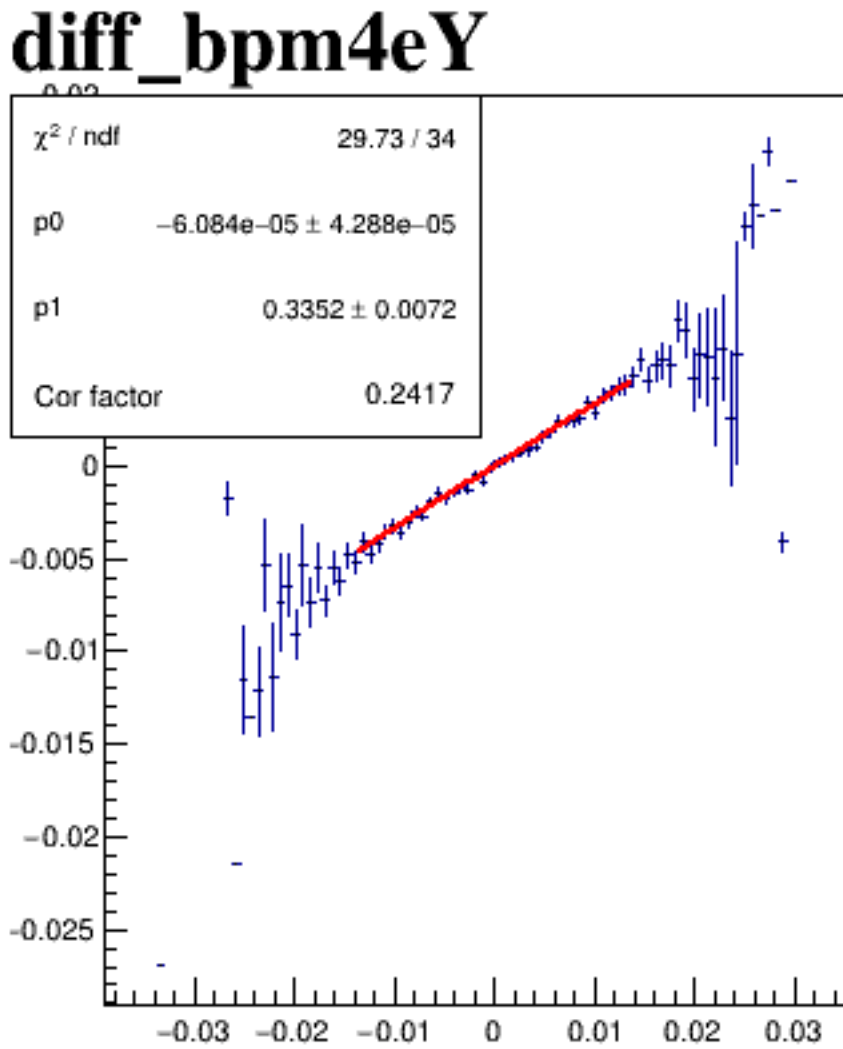
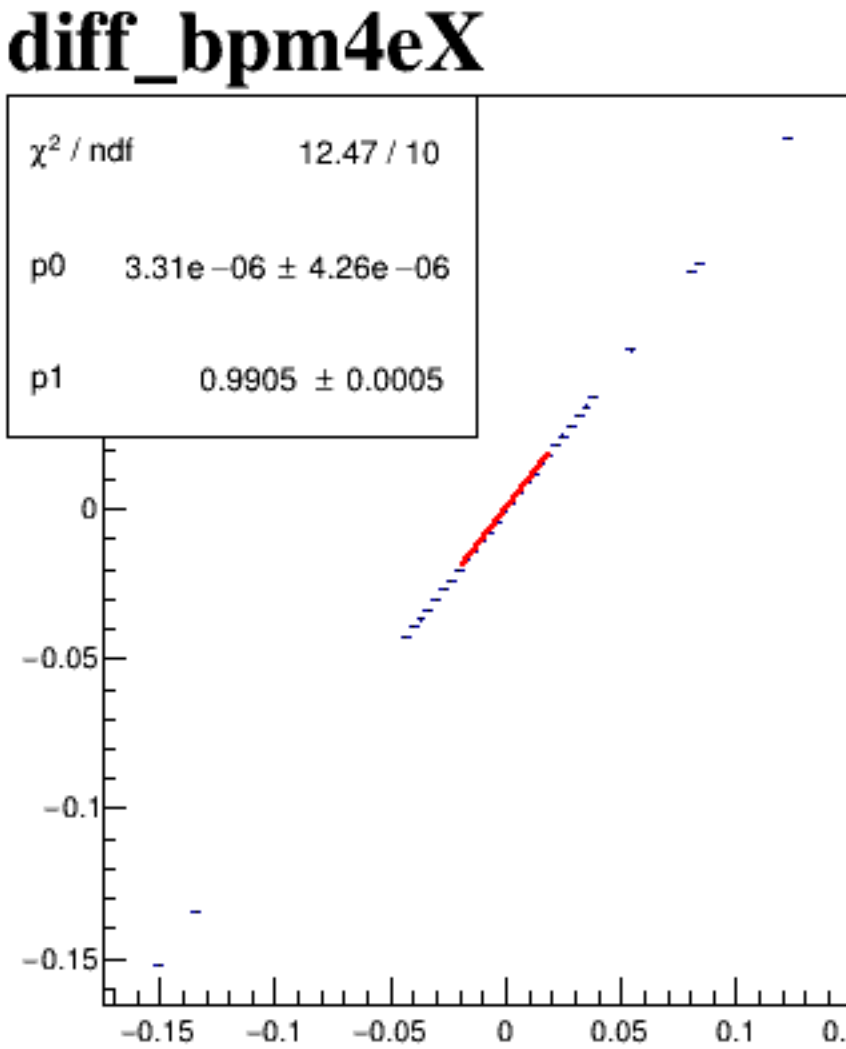
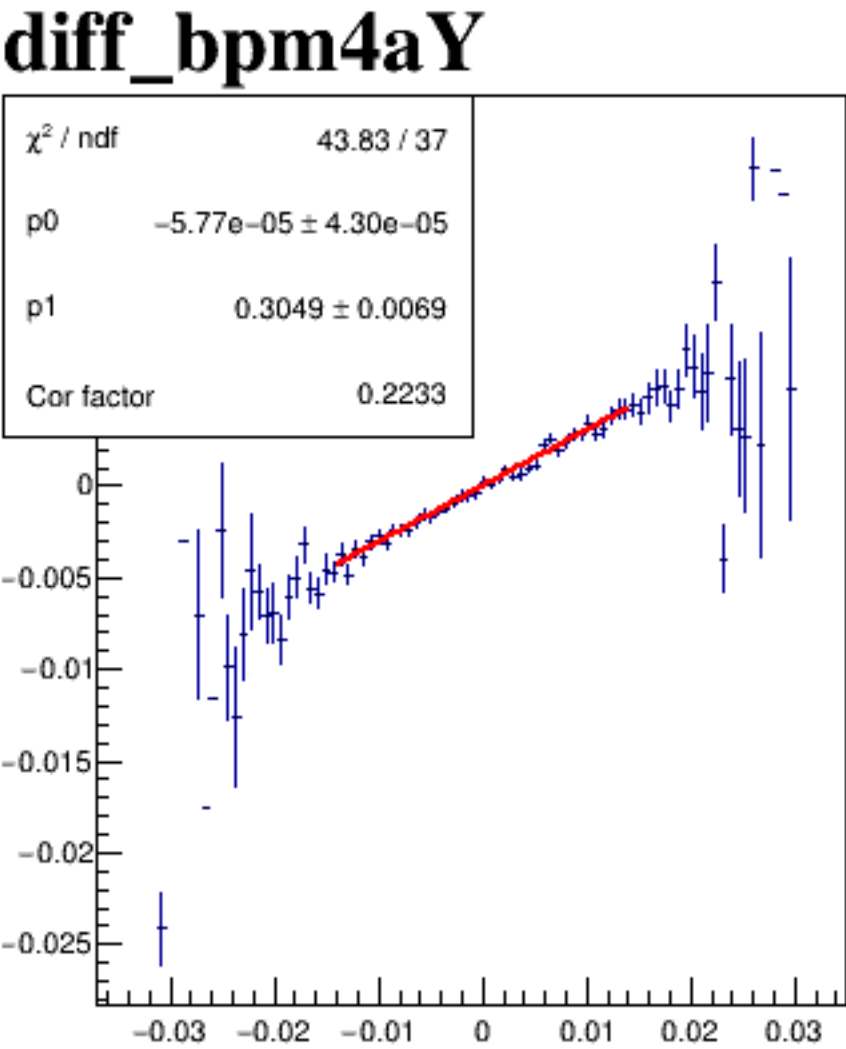
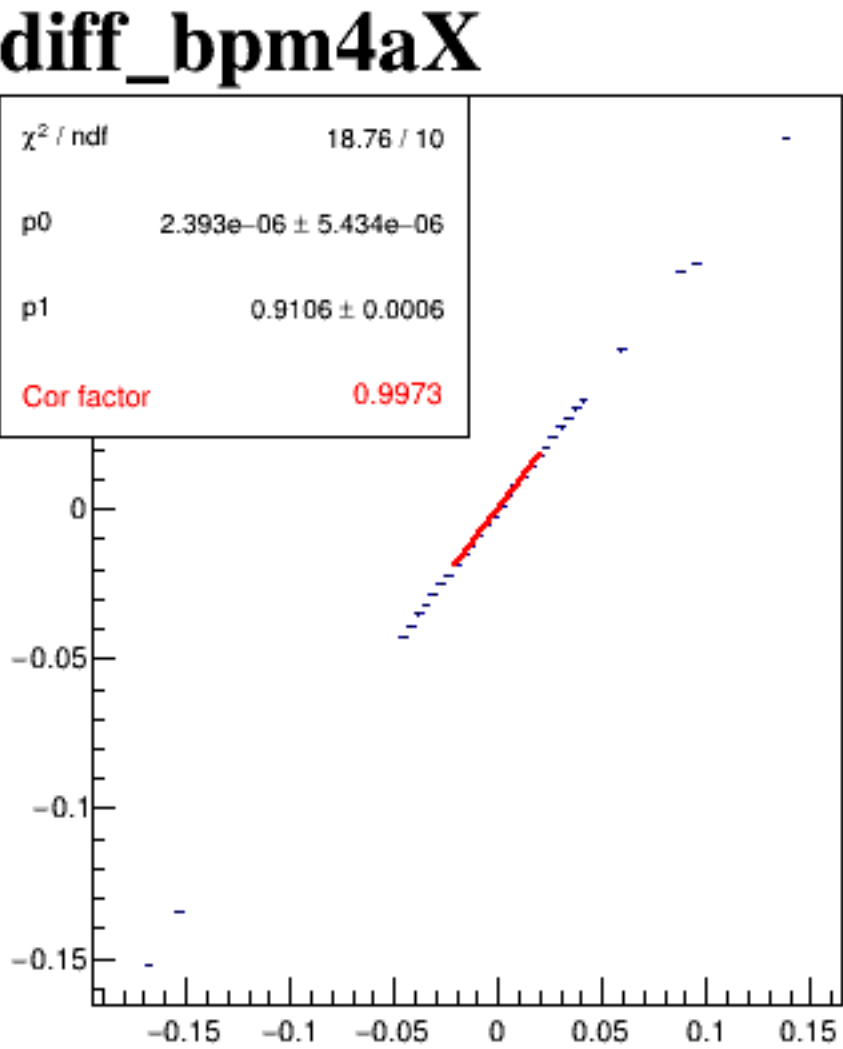
diff_bpm4aX



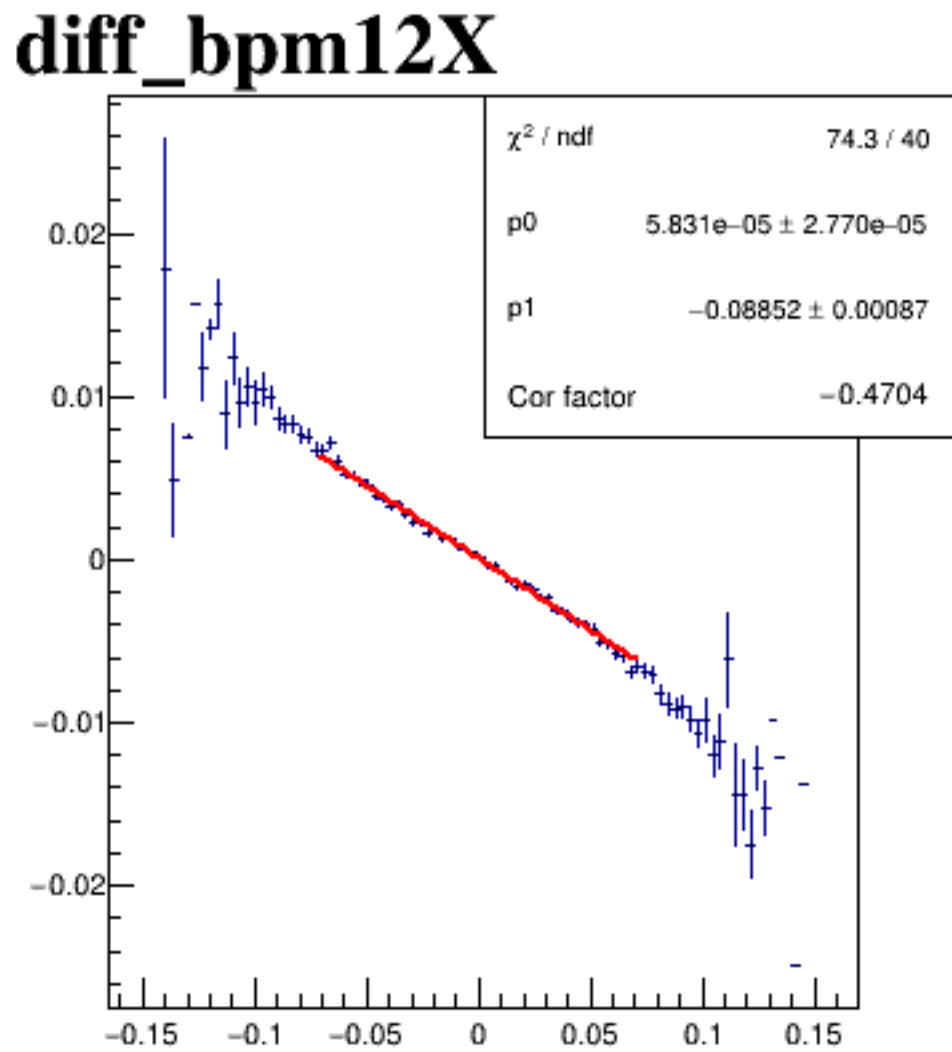
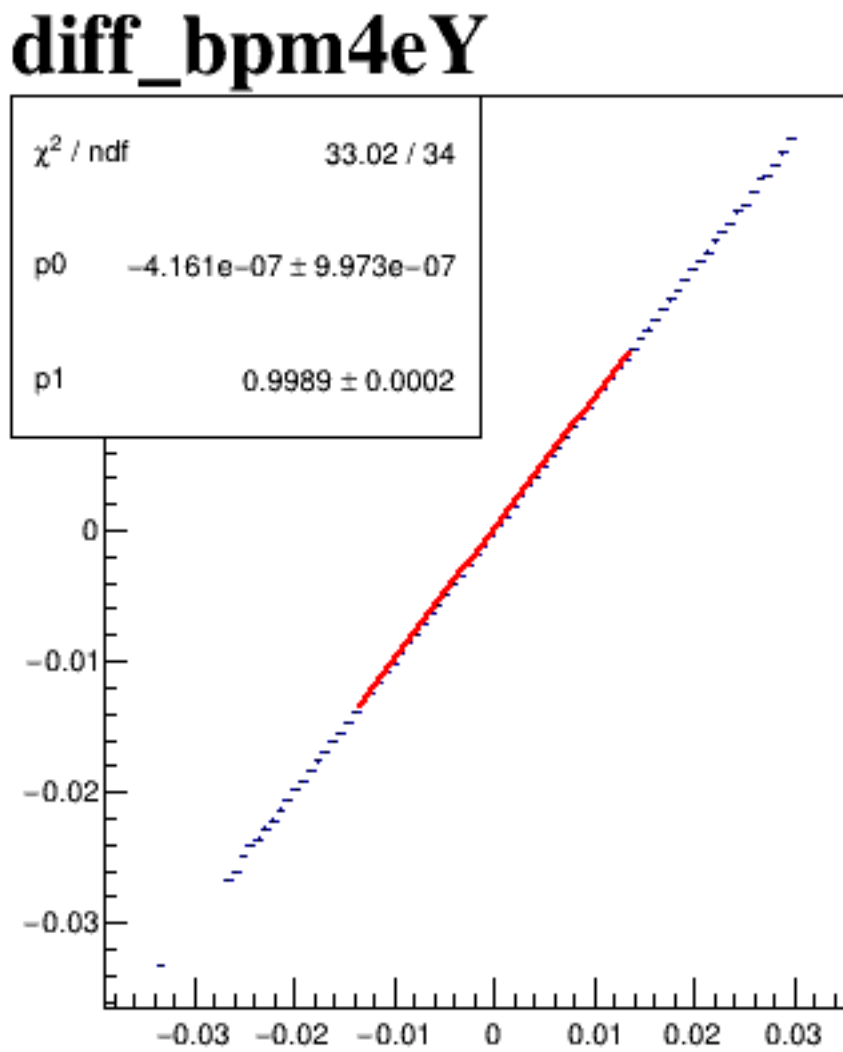
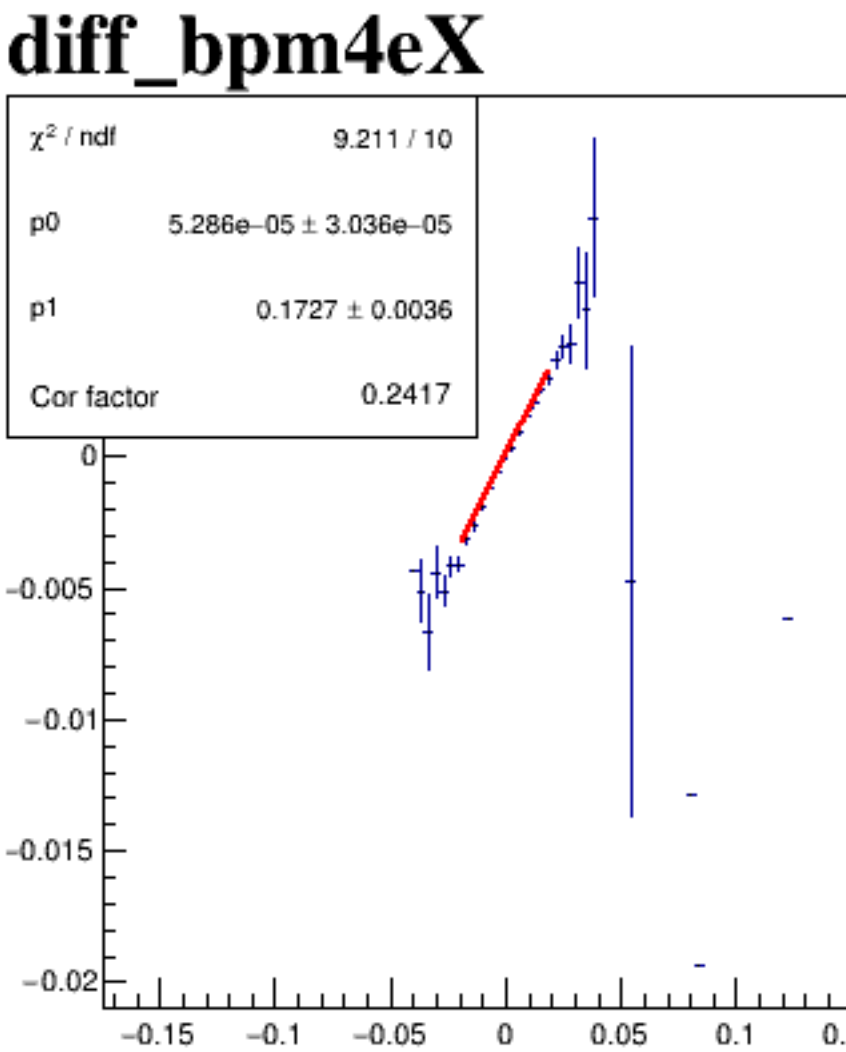
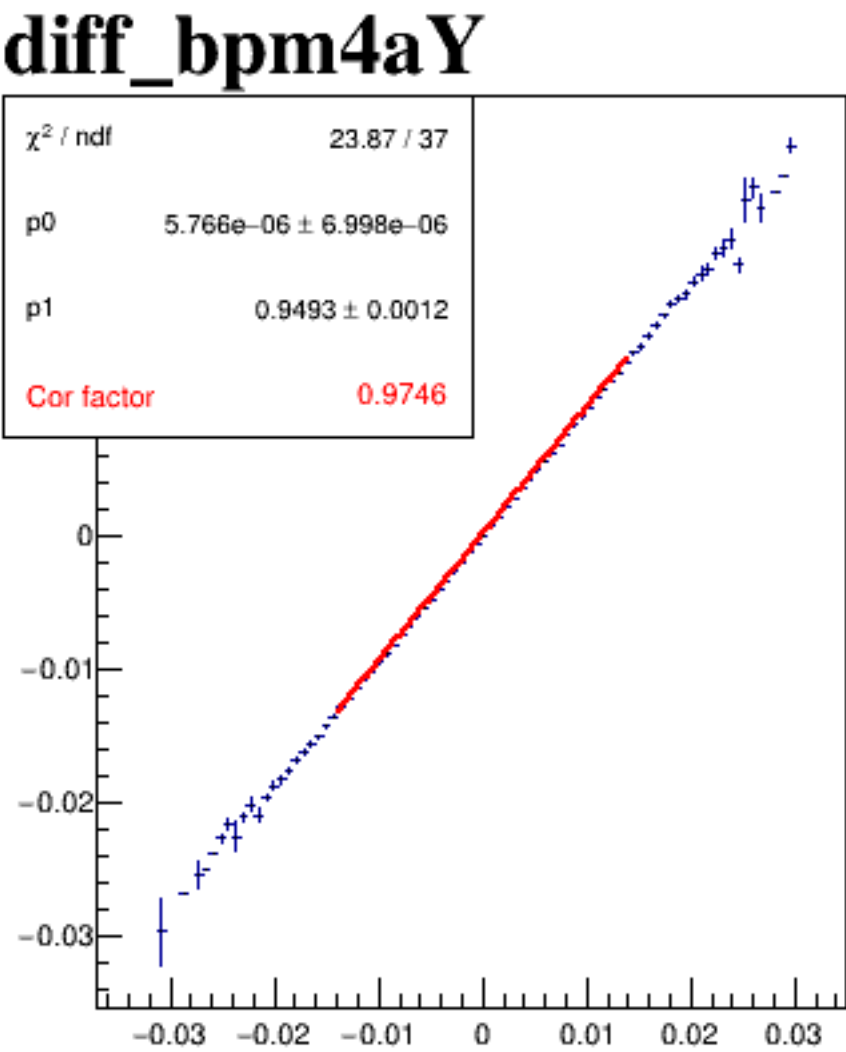
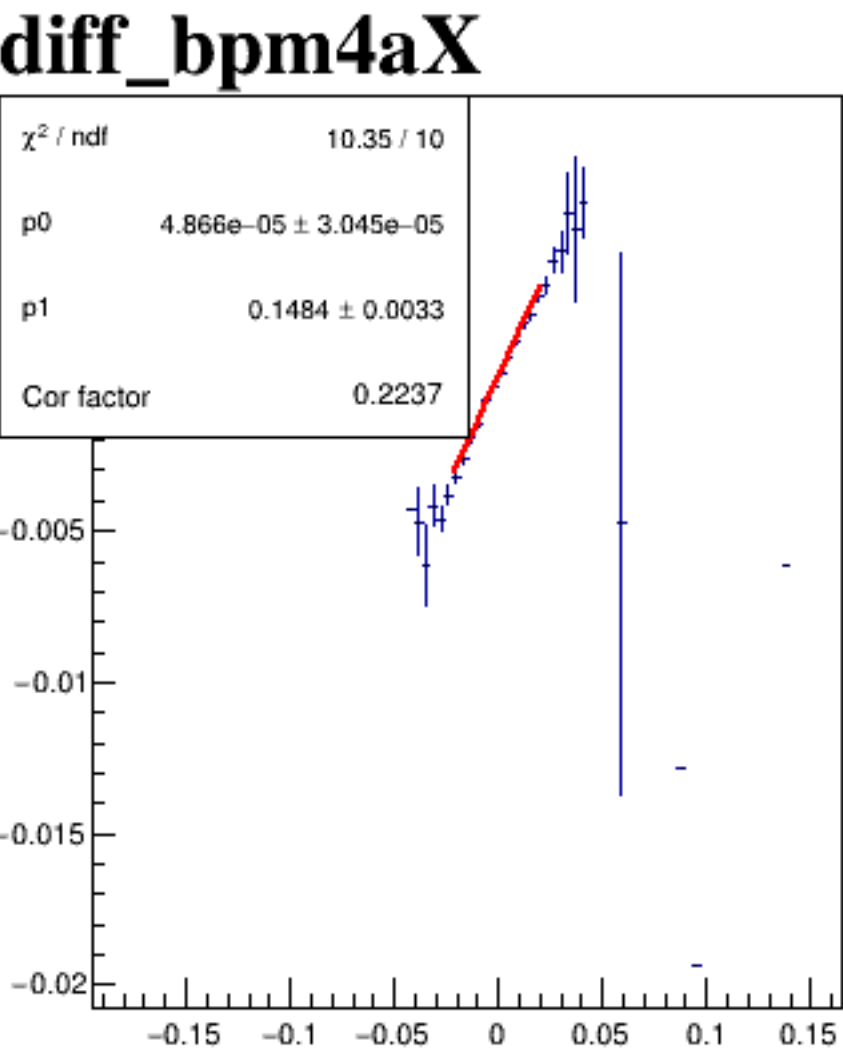
diff_bpm4aY



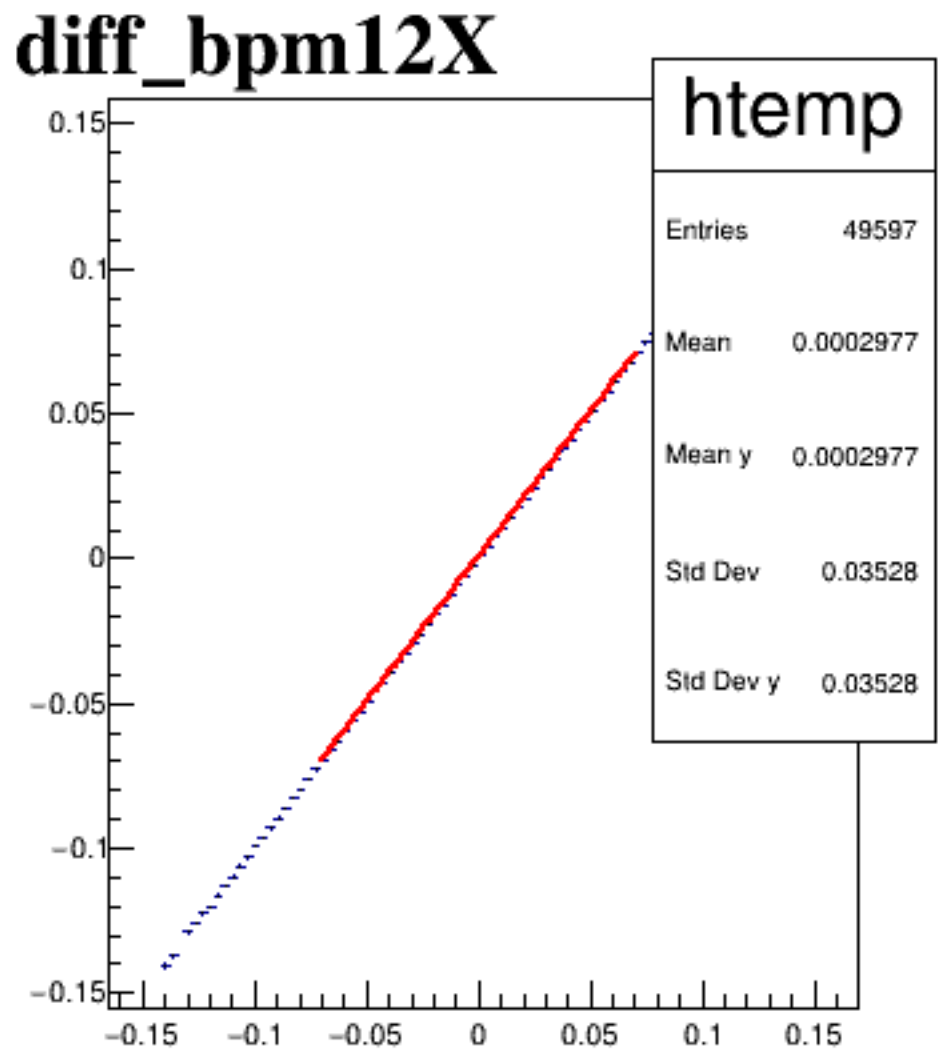
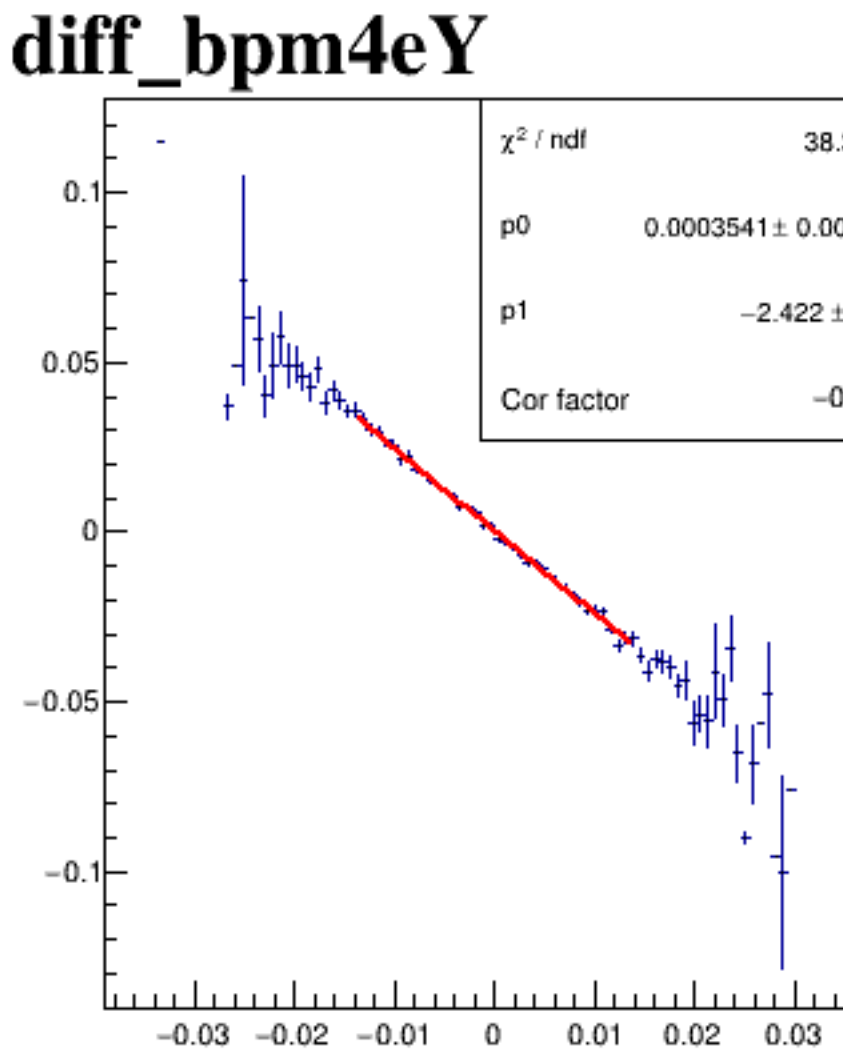
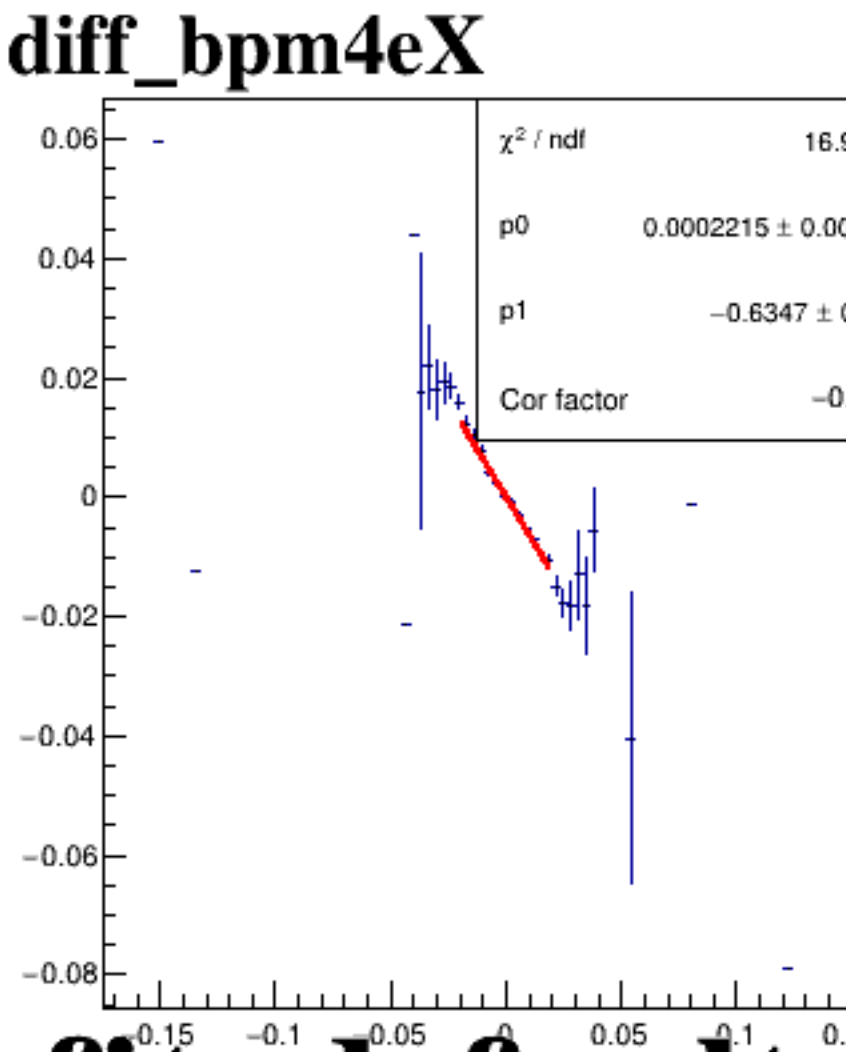
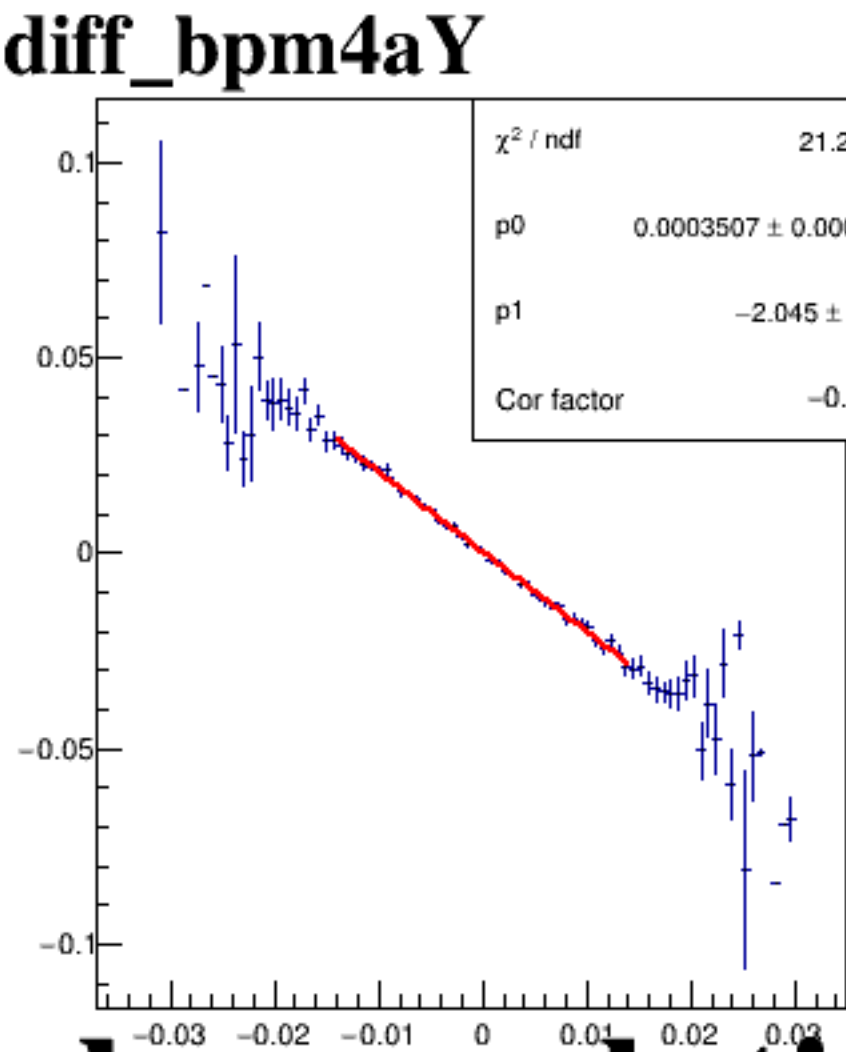
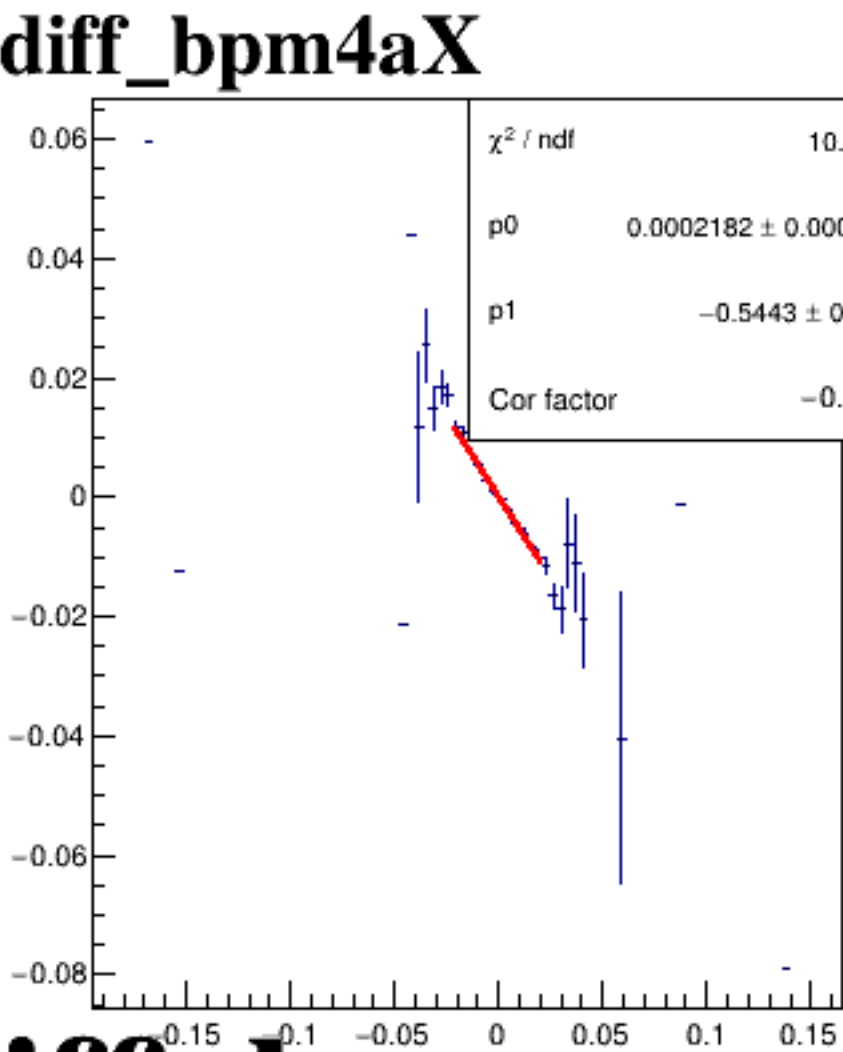
diff_bpm4eX



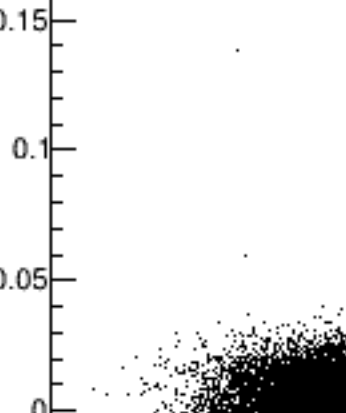
diff_bpm4eY



diff_bpm12X



run6329_000_diff_bpm_mutual_correlation_fit_default.png



A scatter plot showing the relationship between two variables, both labeled 'diff_bpm12X'. The x-axis and y-axis both range from -0.15 to 0.15, with major tick marks every 0.05 units. The plot is filled with a dense cloud of black points, centered around the origin (0,0), indicating a strong positive correlation between the two variables.

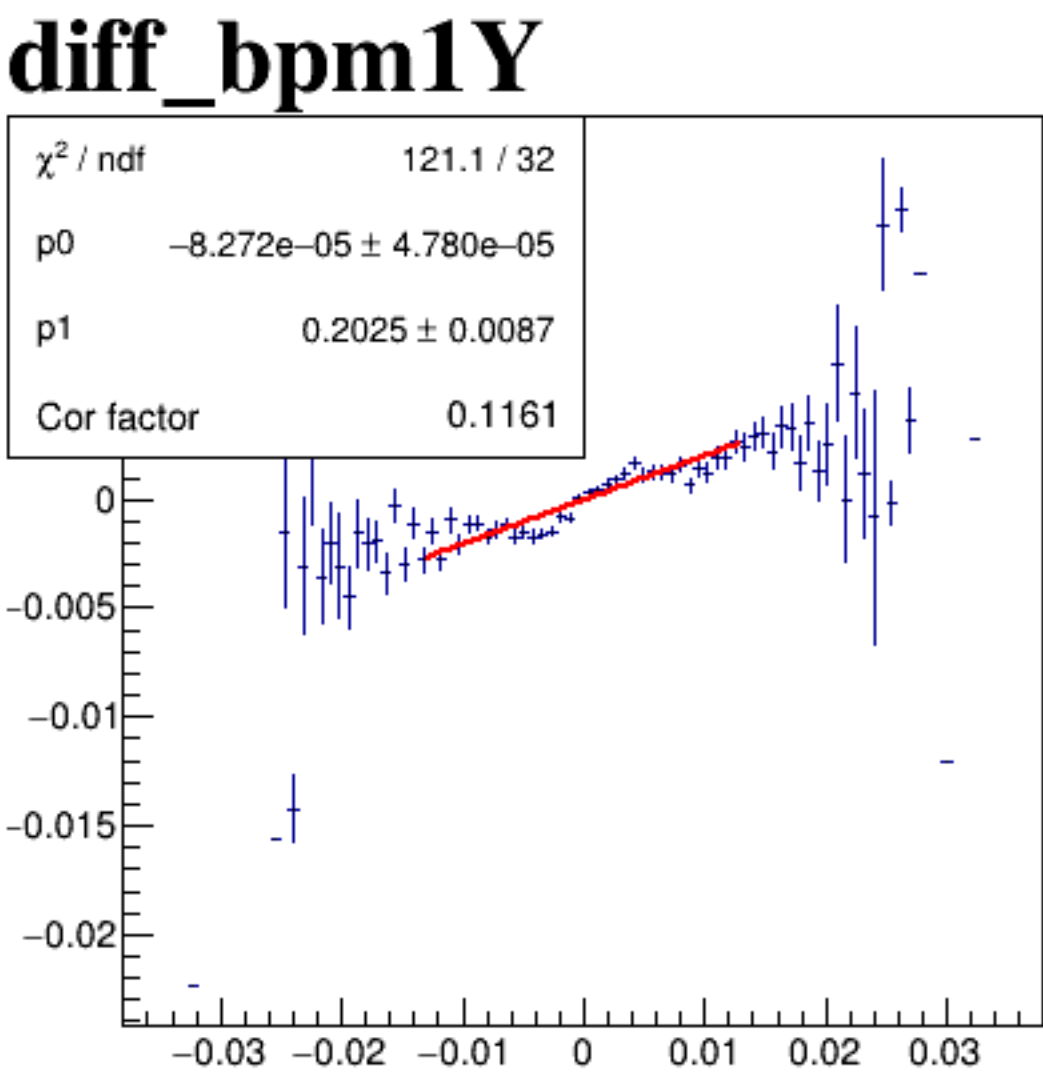
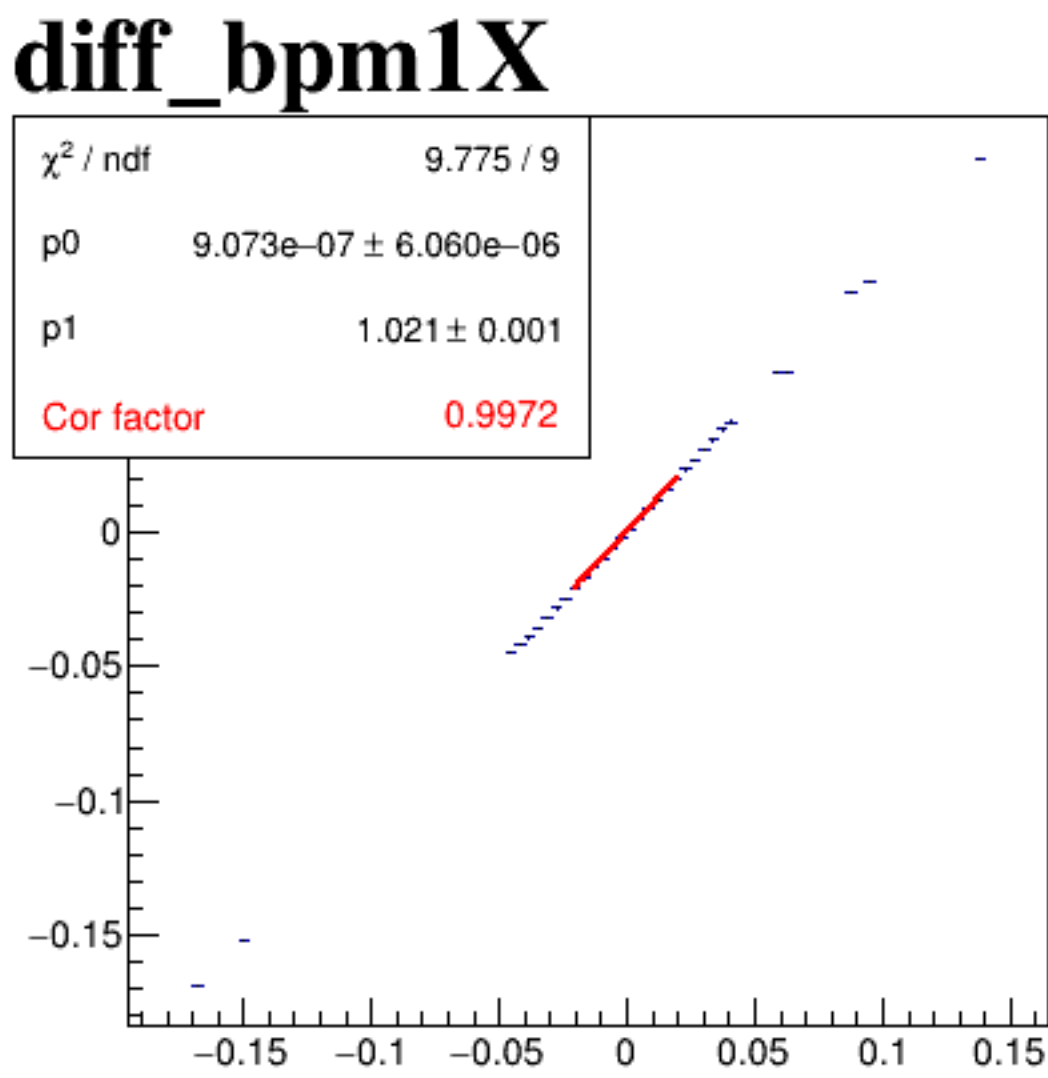
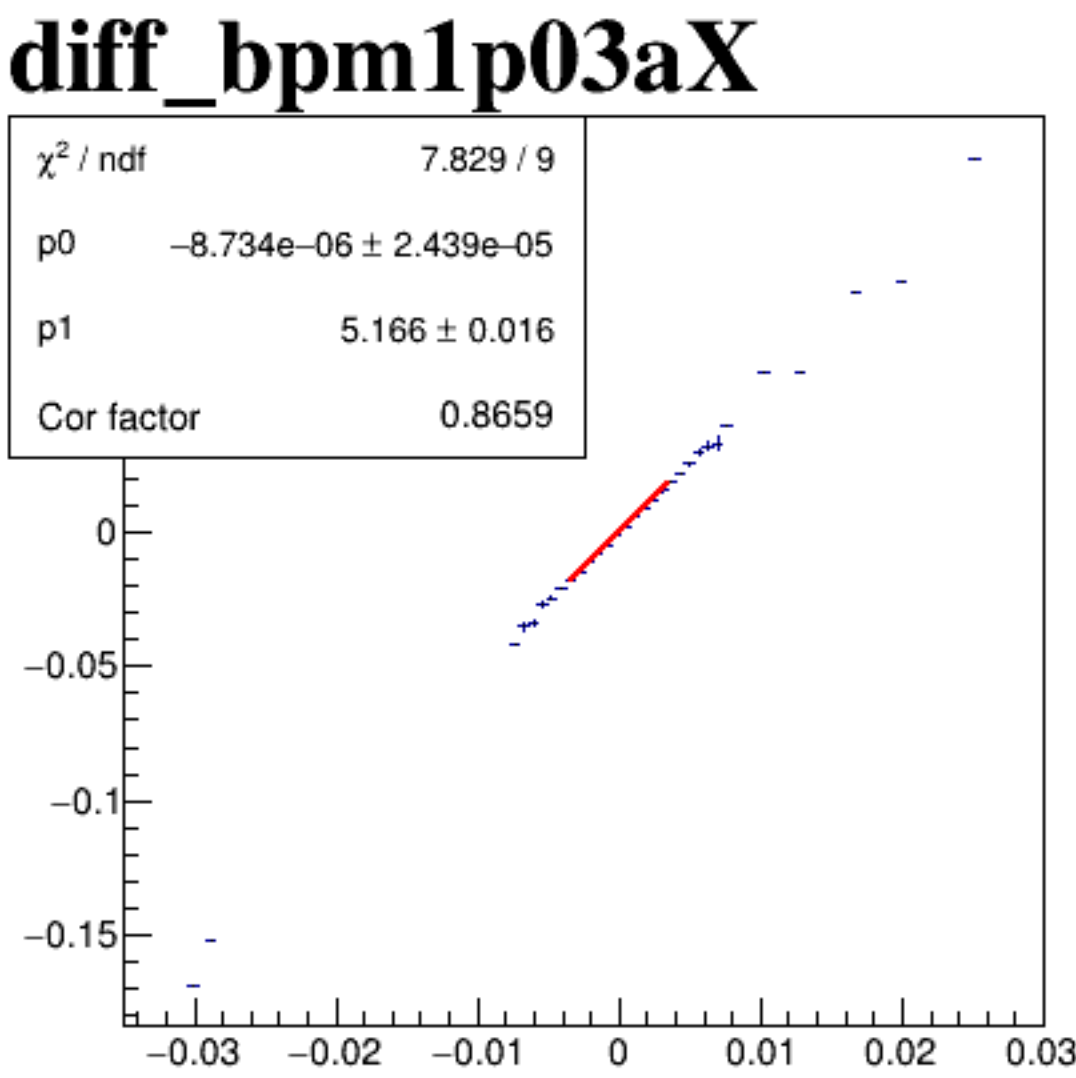
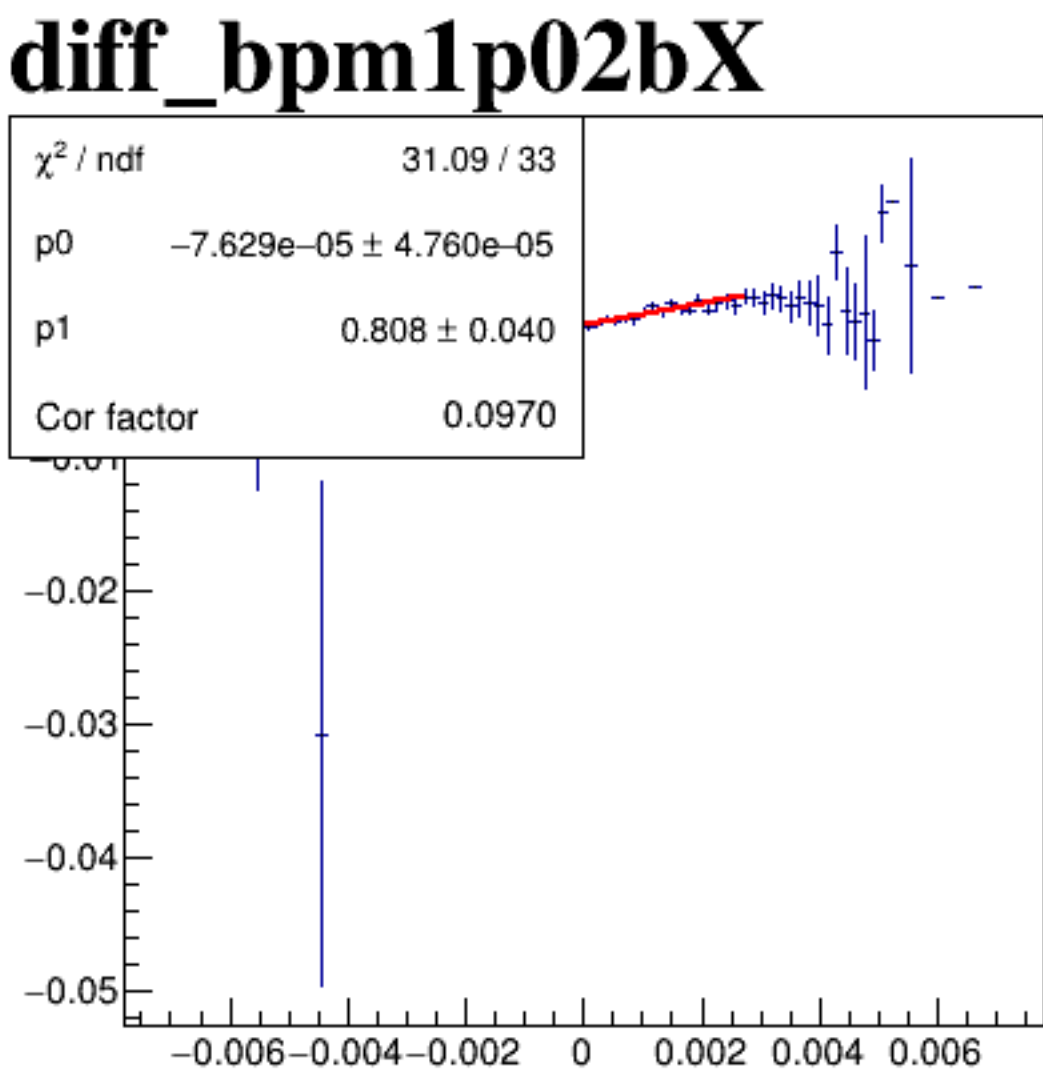
A scatter plot showing the relationship between two variables, both labeled `diff_bpm12X`. The plot displays a dense cloud of points centered around the origin (0,0), indicating a strong positive correlation. The axes range from -0.15 to 0.15 with major ticks every 0.05 units.

run6329_000_diff_bpm_mutual_correlation_scatter_default.png

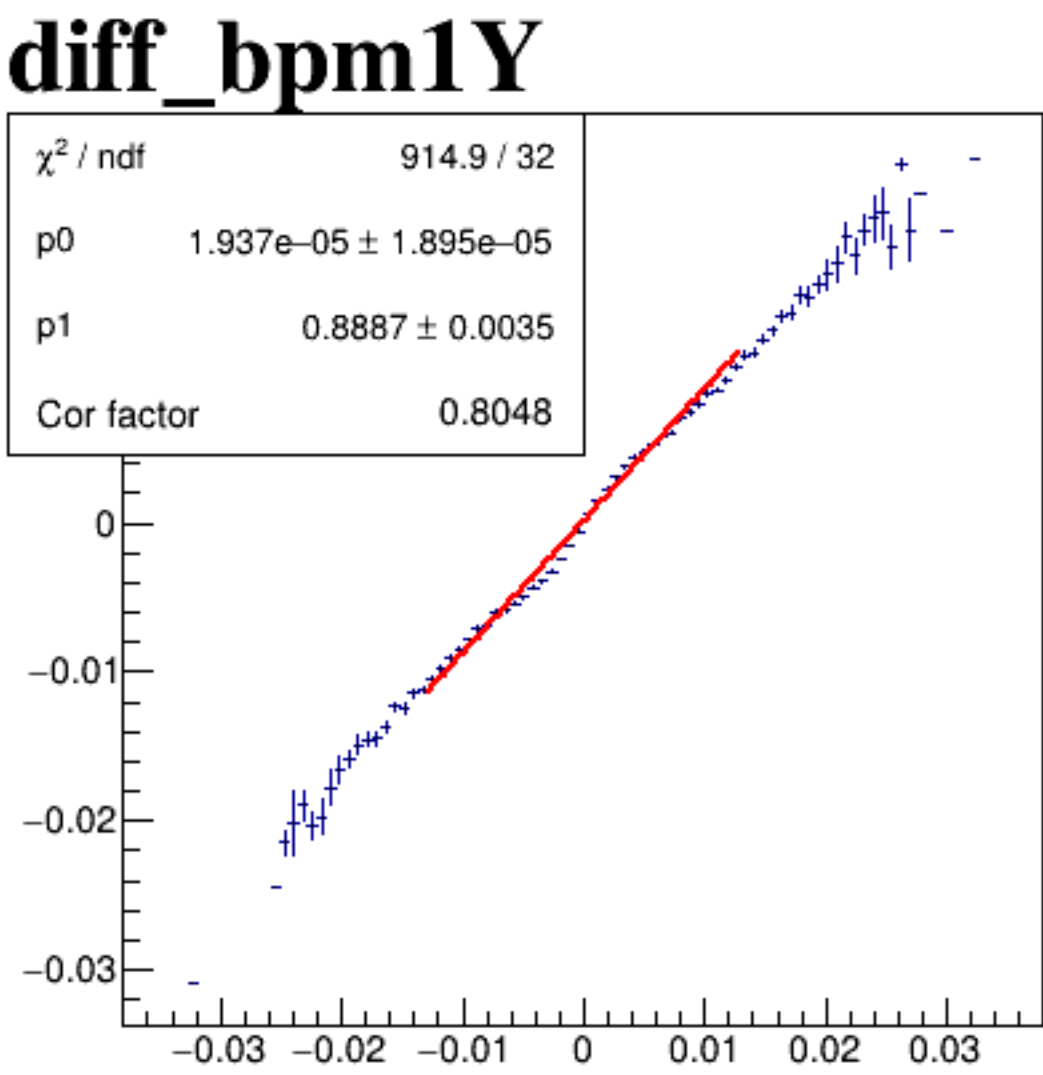
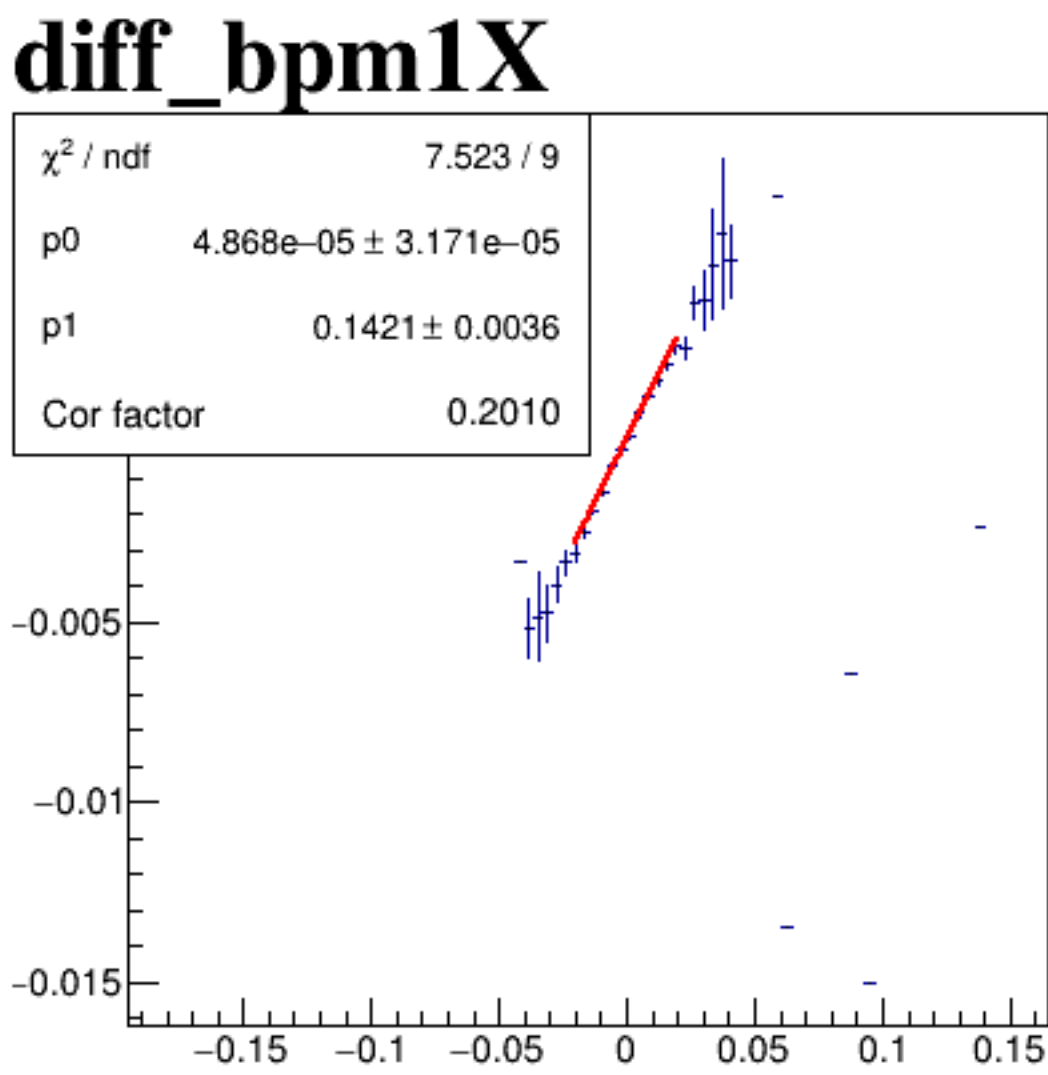
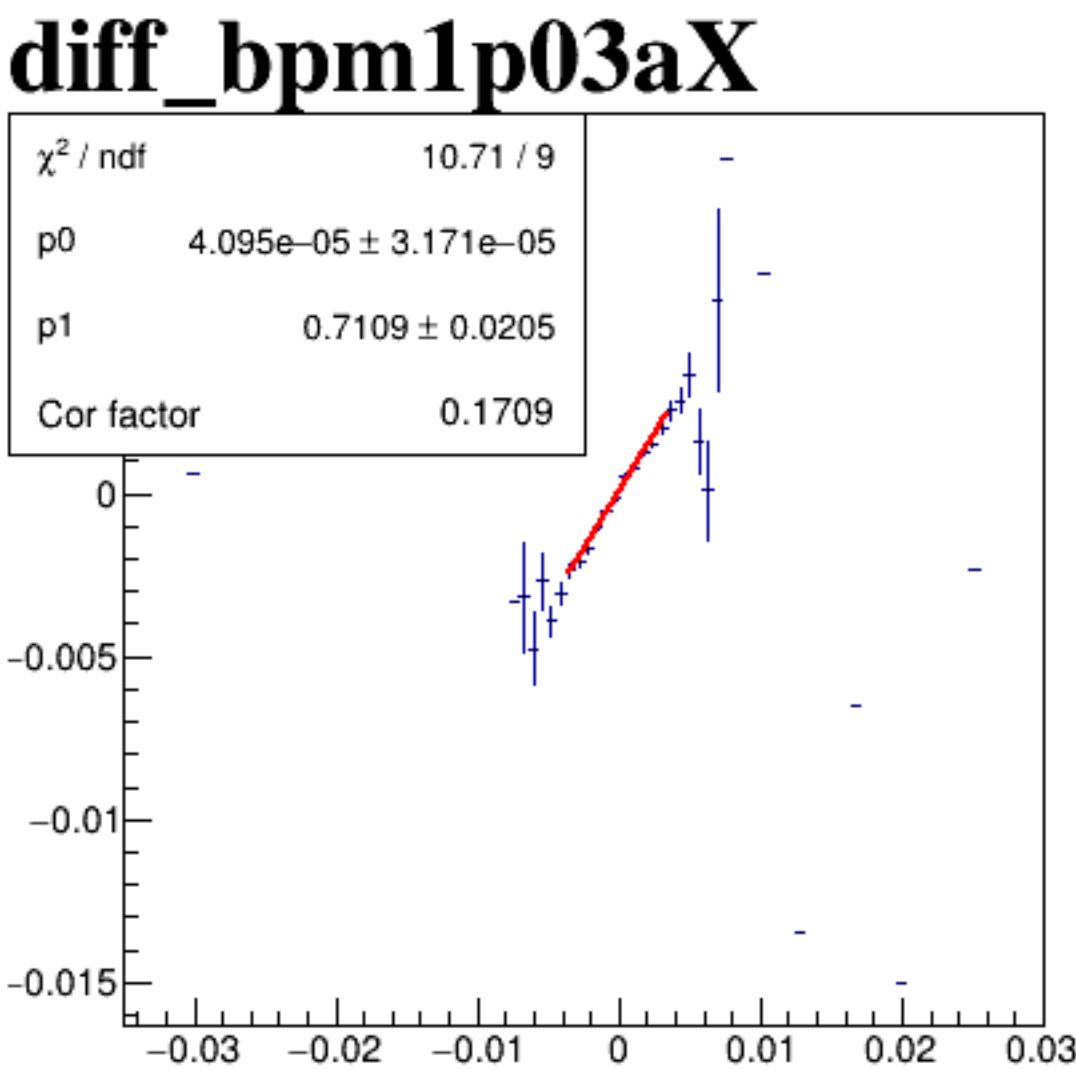
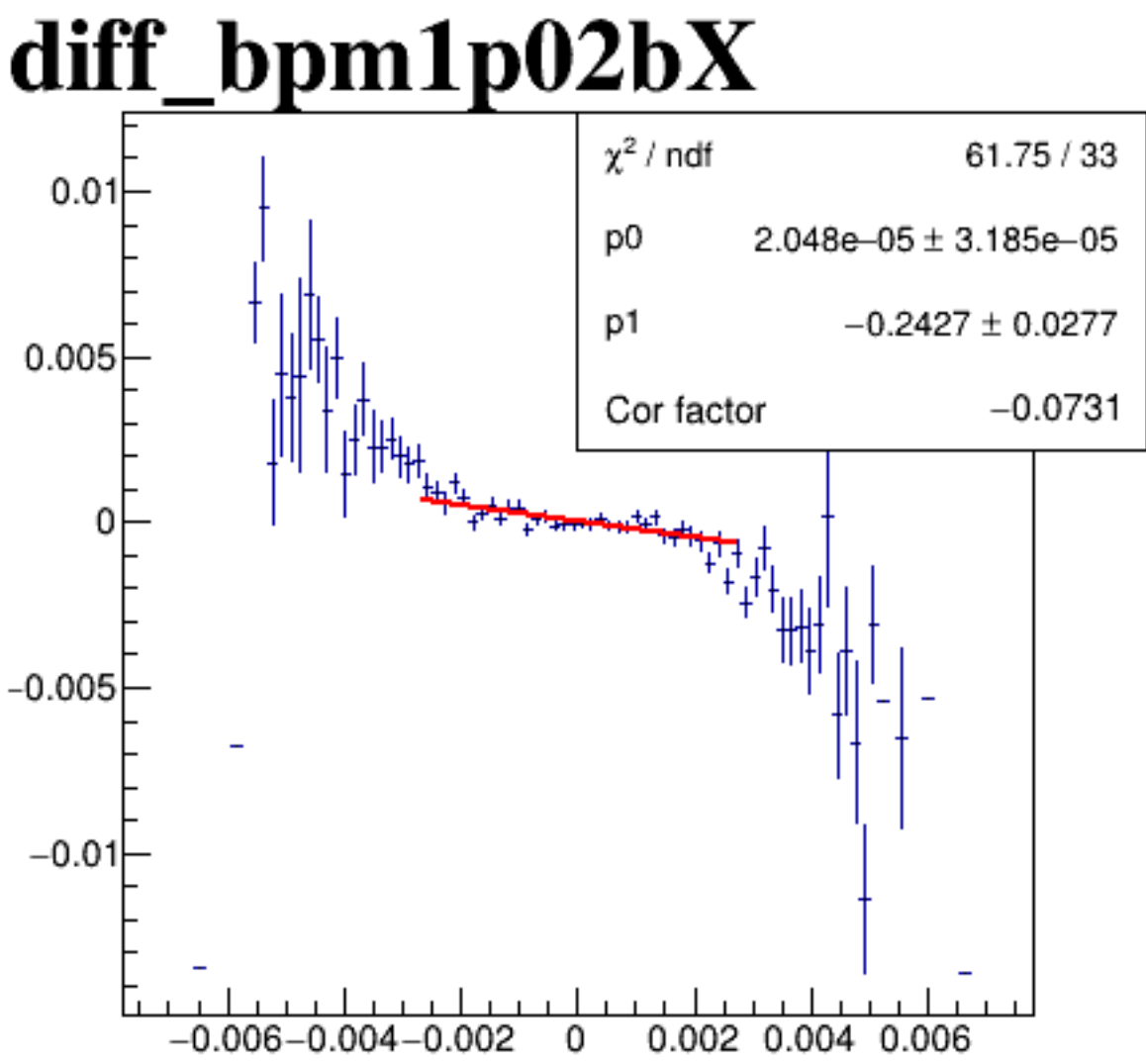
Figure 1 displays four 2D histograms showing the distribution of differences between BPM1 and other BPMs. The plots are:

- diff_bpm1p02bX**: Shows a circular distribution of differences between BPM1 and BPM02bX. The color bar ranges from 0 to 50.
- diff_bpm1p03aX**: Shows a vertical elliptical distribution of differences between BPM1 and BPM03aX. The color bar ranges from 0 to 160.
- diff_bpm1X**: Shows a vertical elliptical distribution of differences between BPM1 and BPMX. The color bar ranges from 0 to 160.
- diff_bpm1Y**: Shows a diagonal elliptical distribution of differences between BPM1 and BPMY. The color bar ranges from 0 to 120.

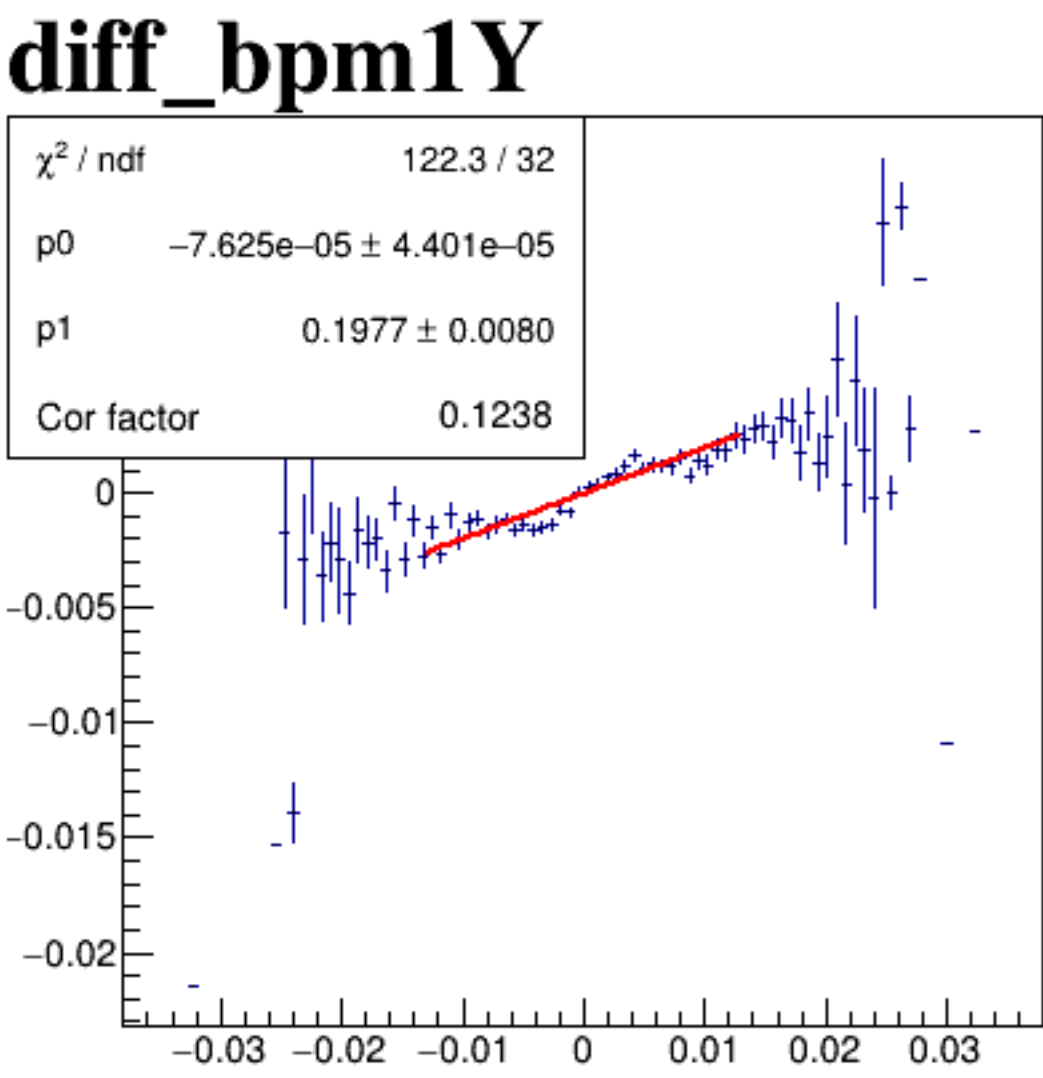
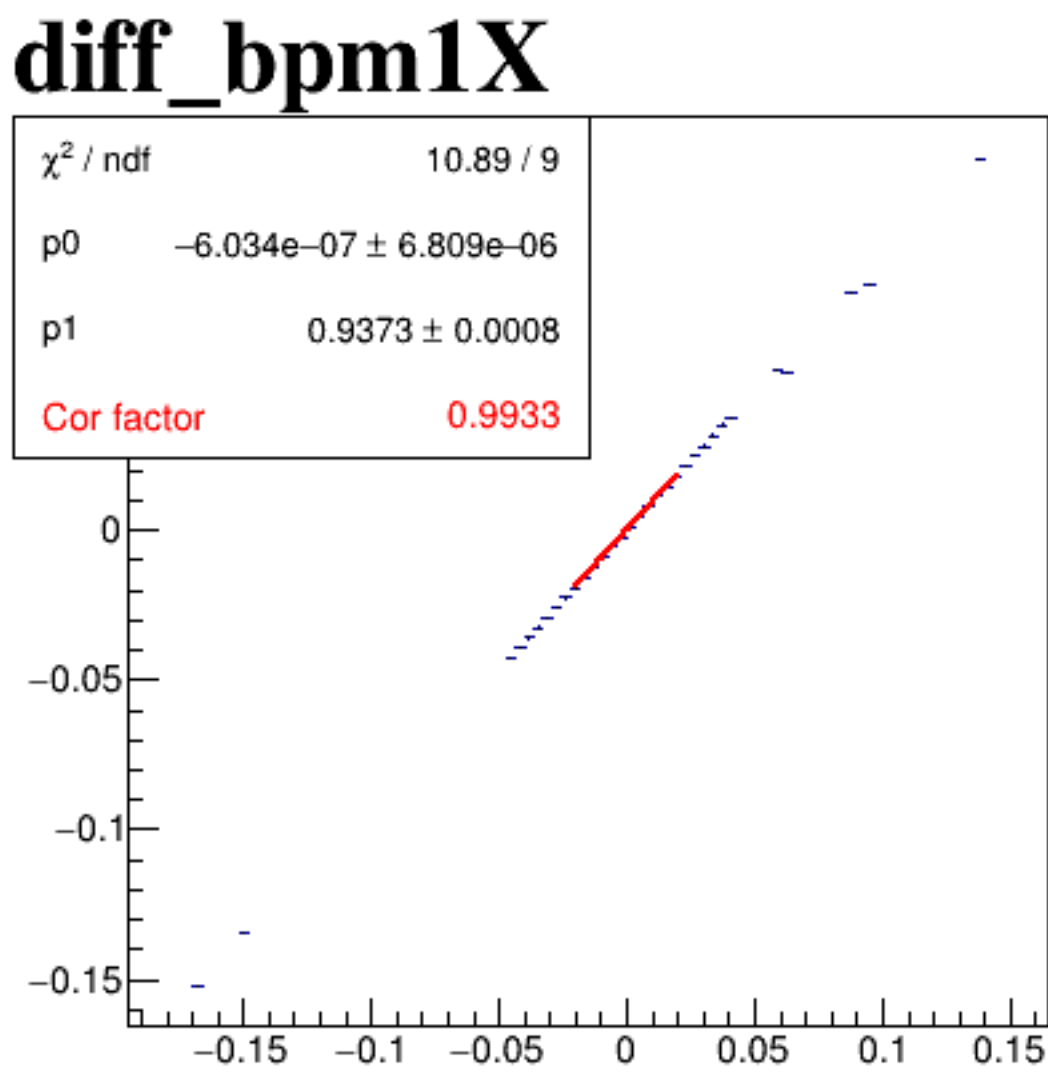
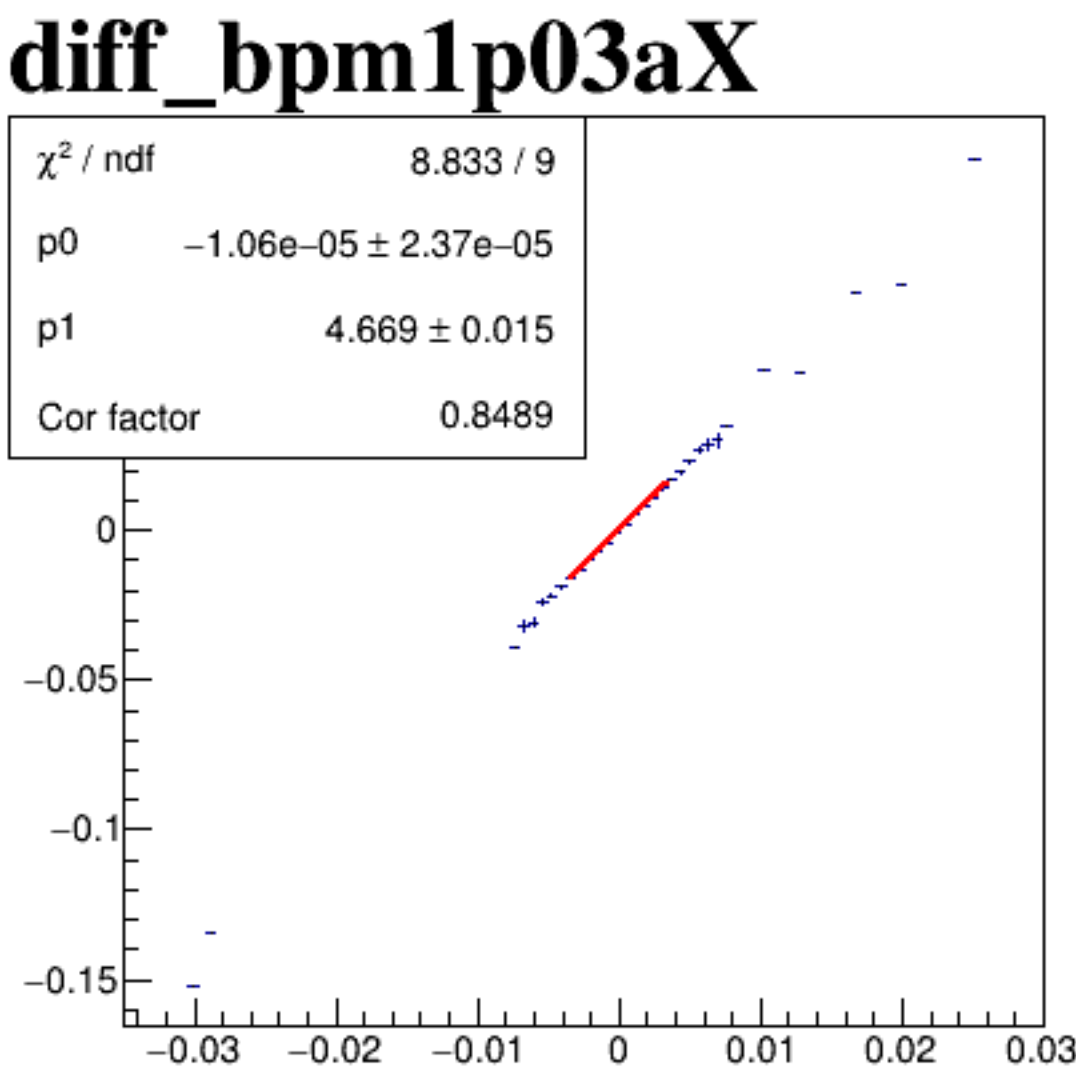
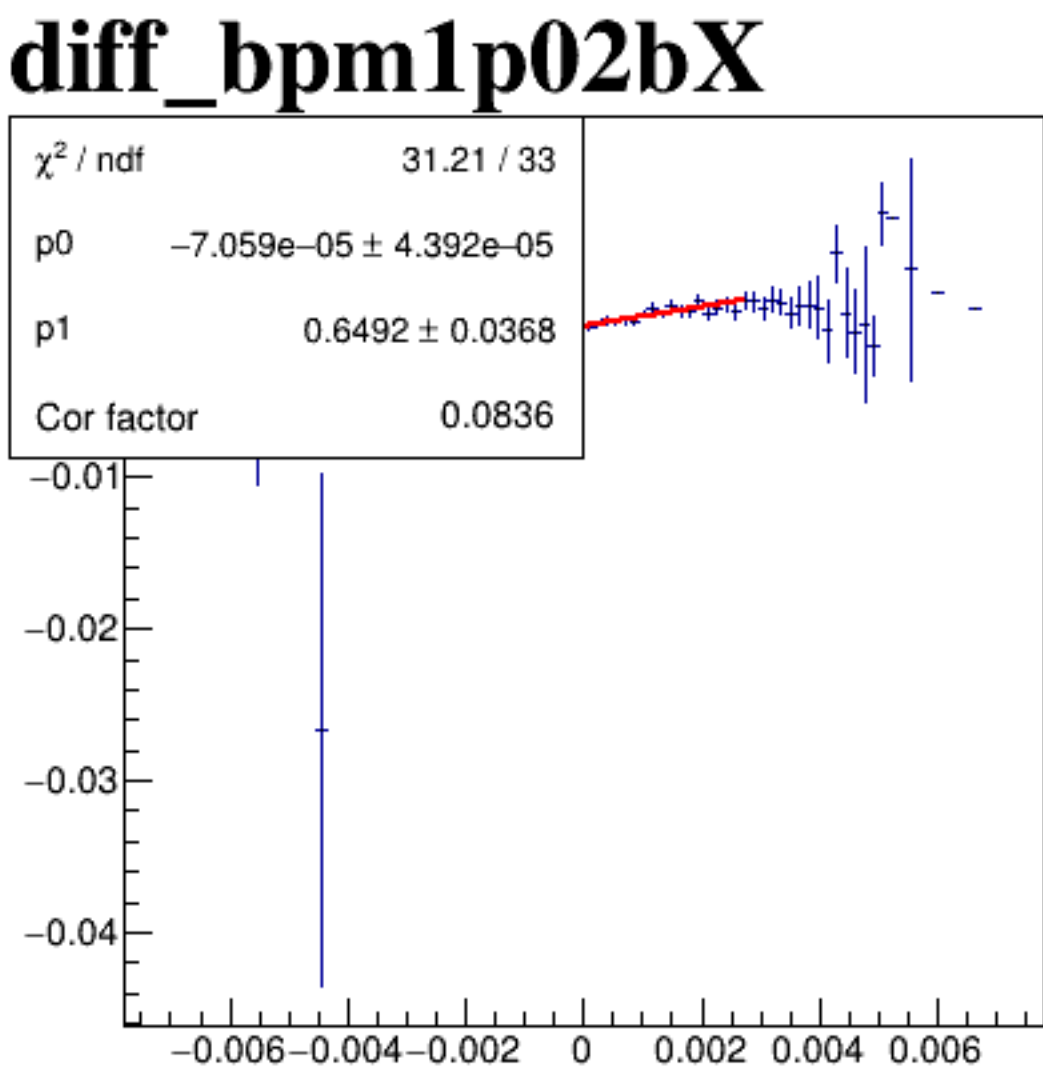
diff_bpm4aX



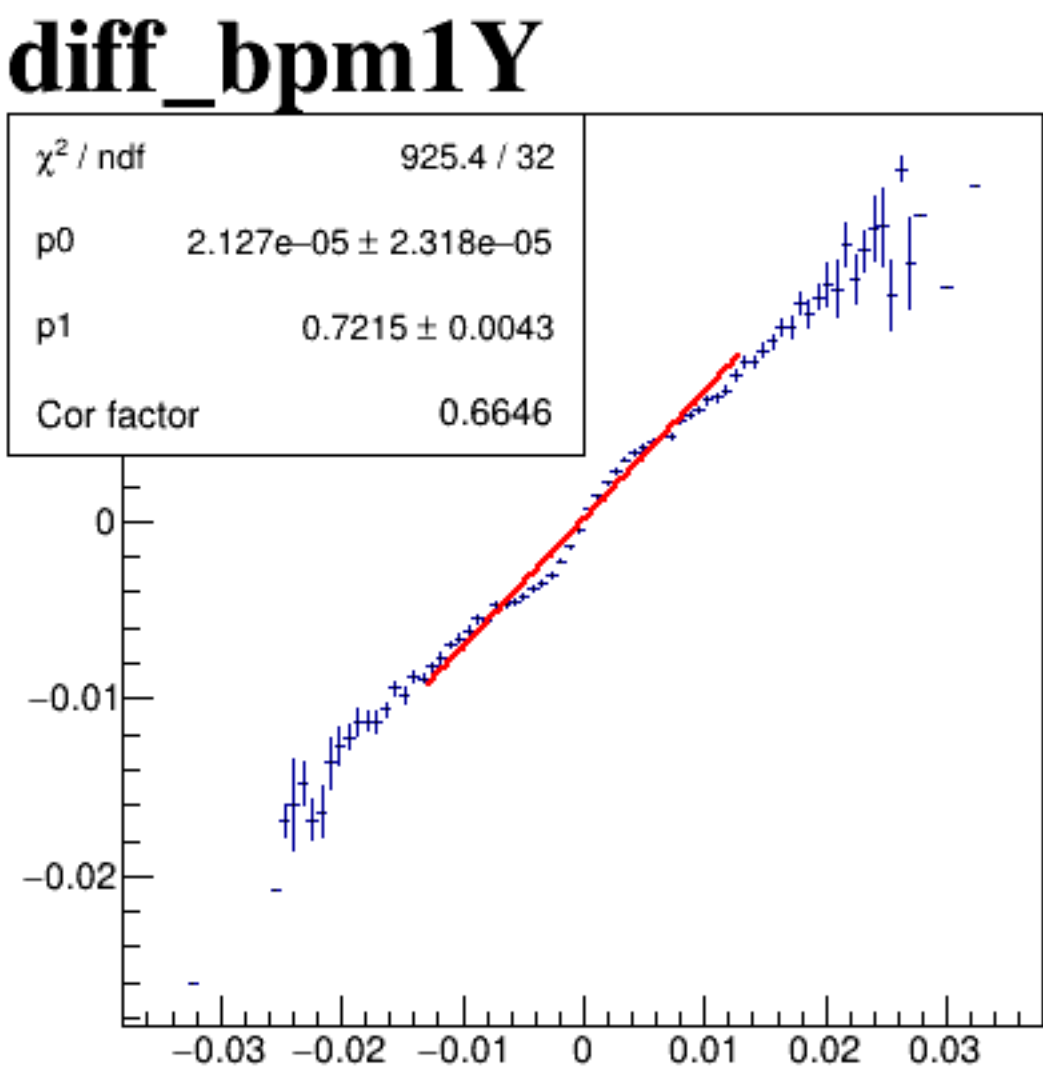
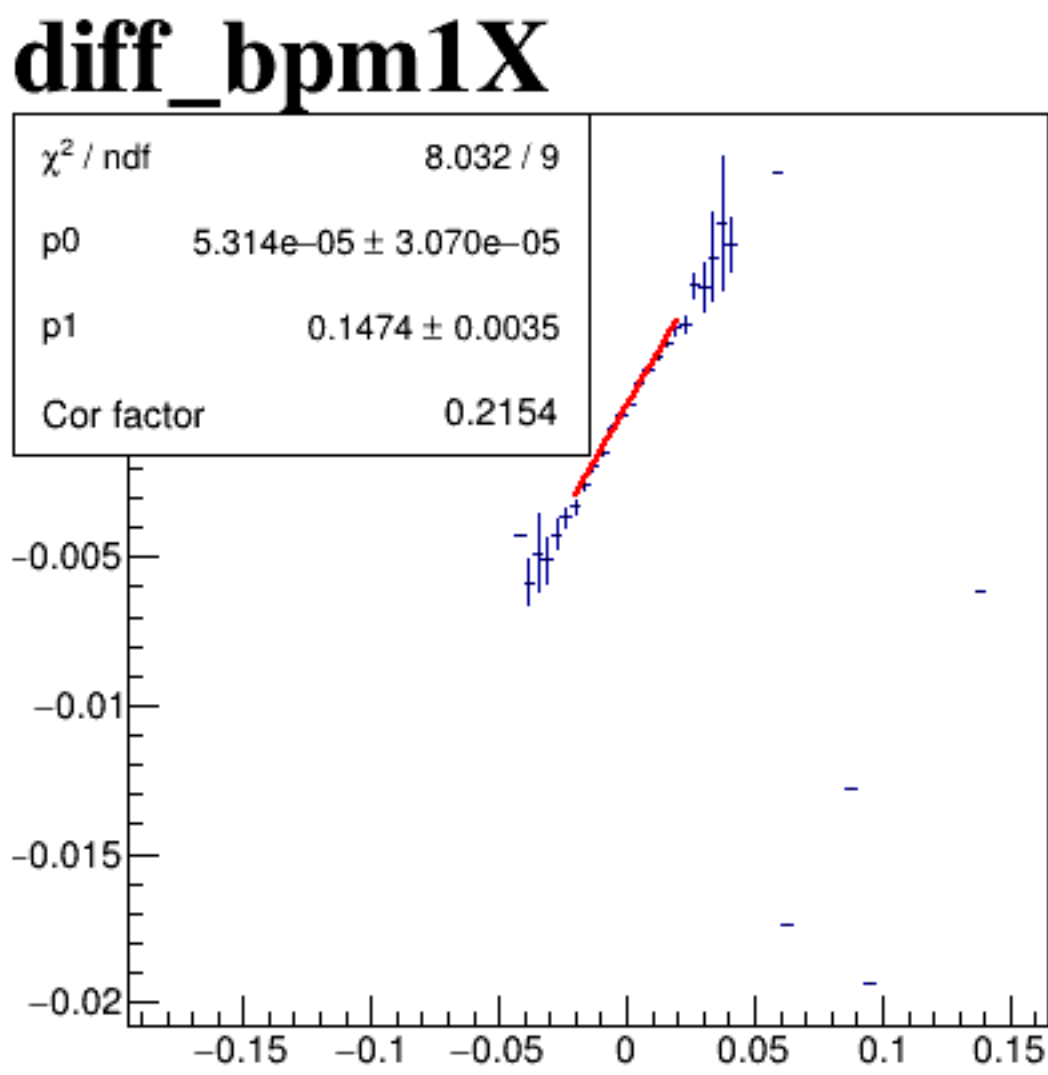
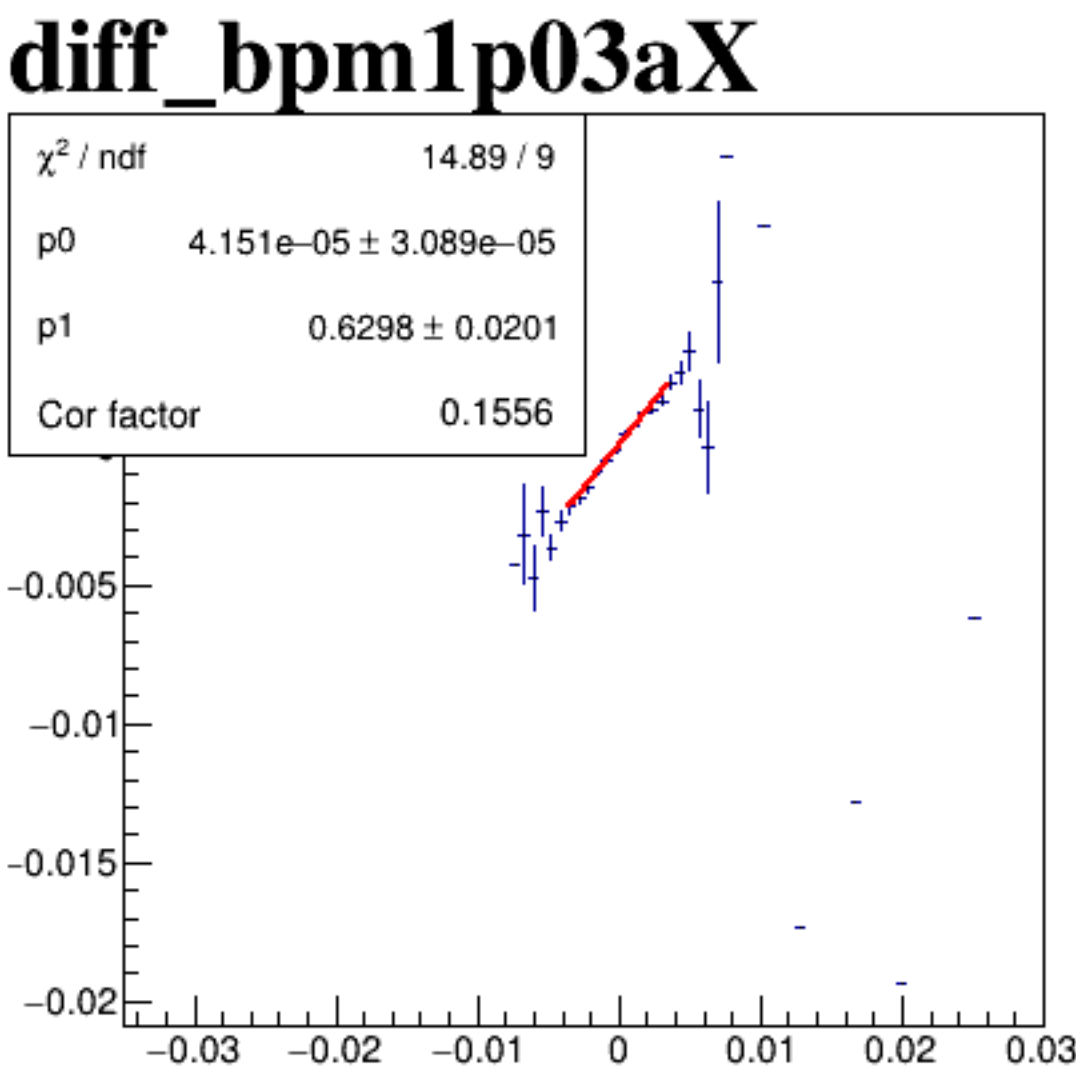
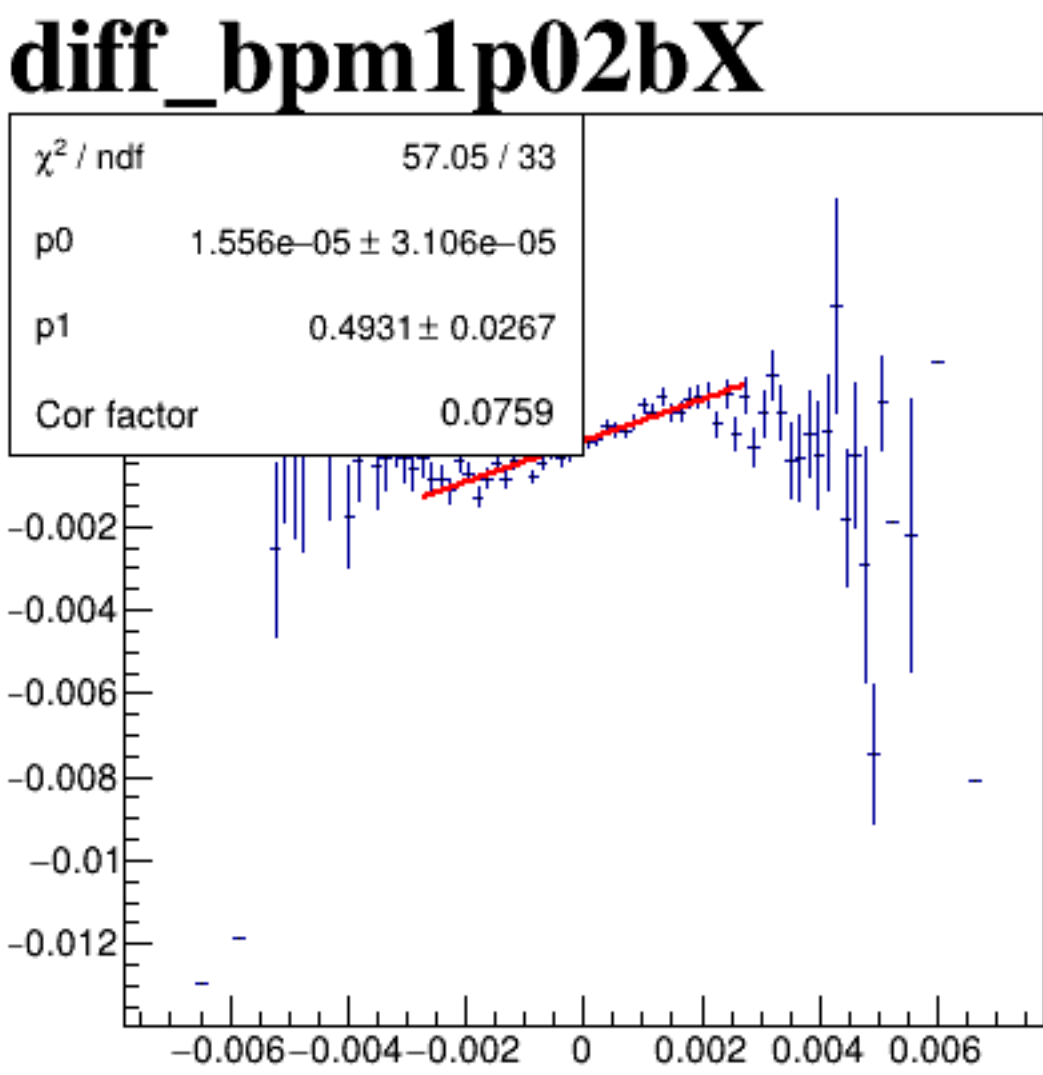
diff_bpm4aY



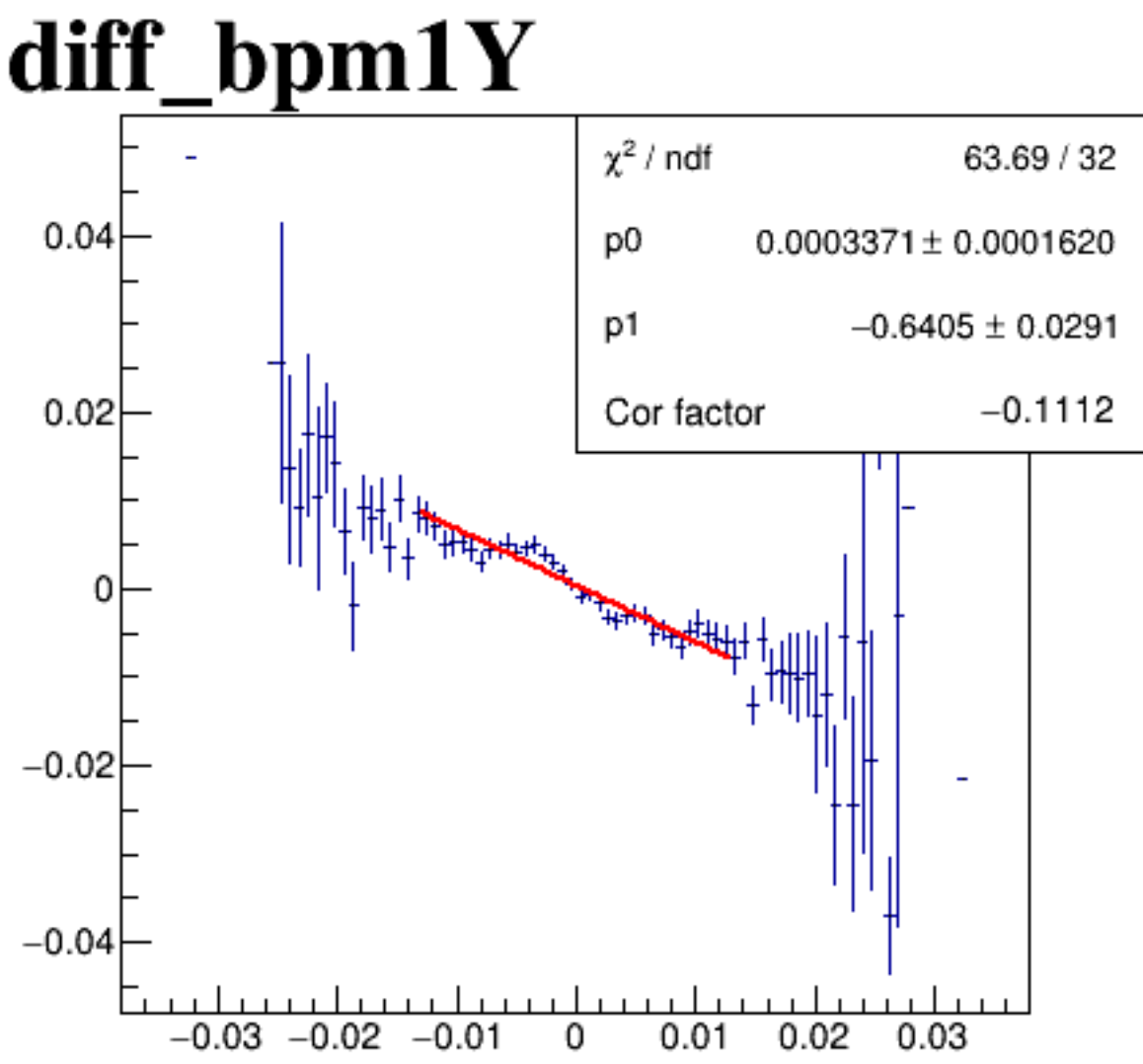
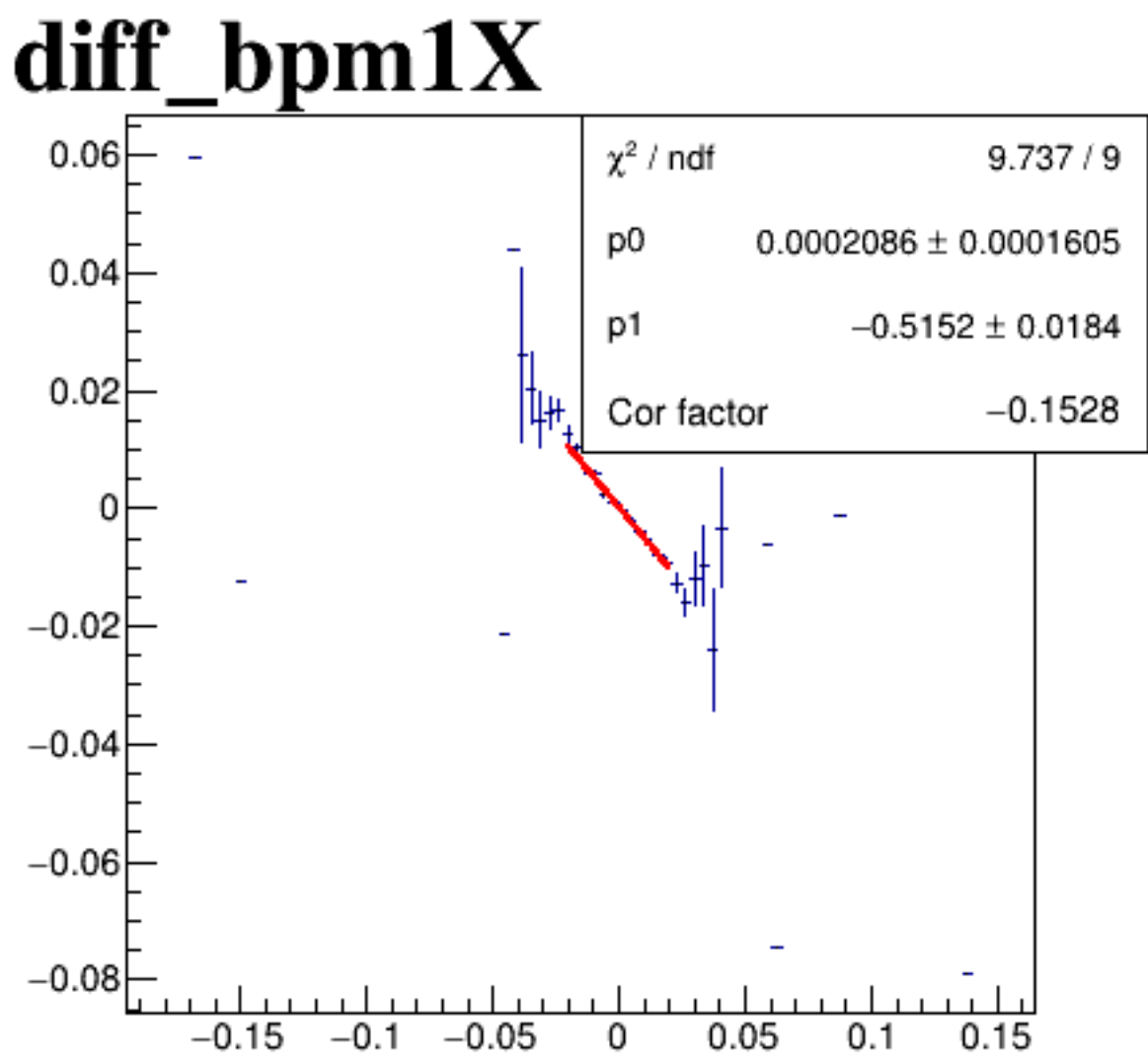
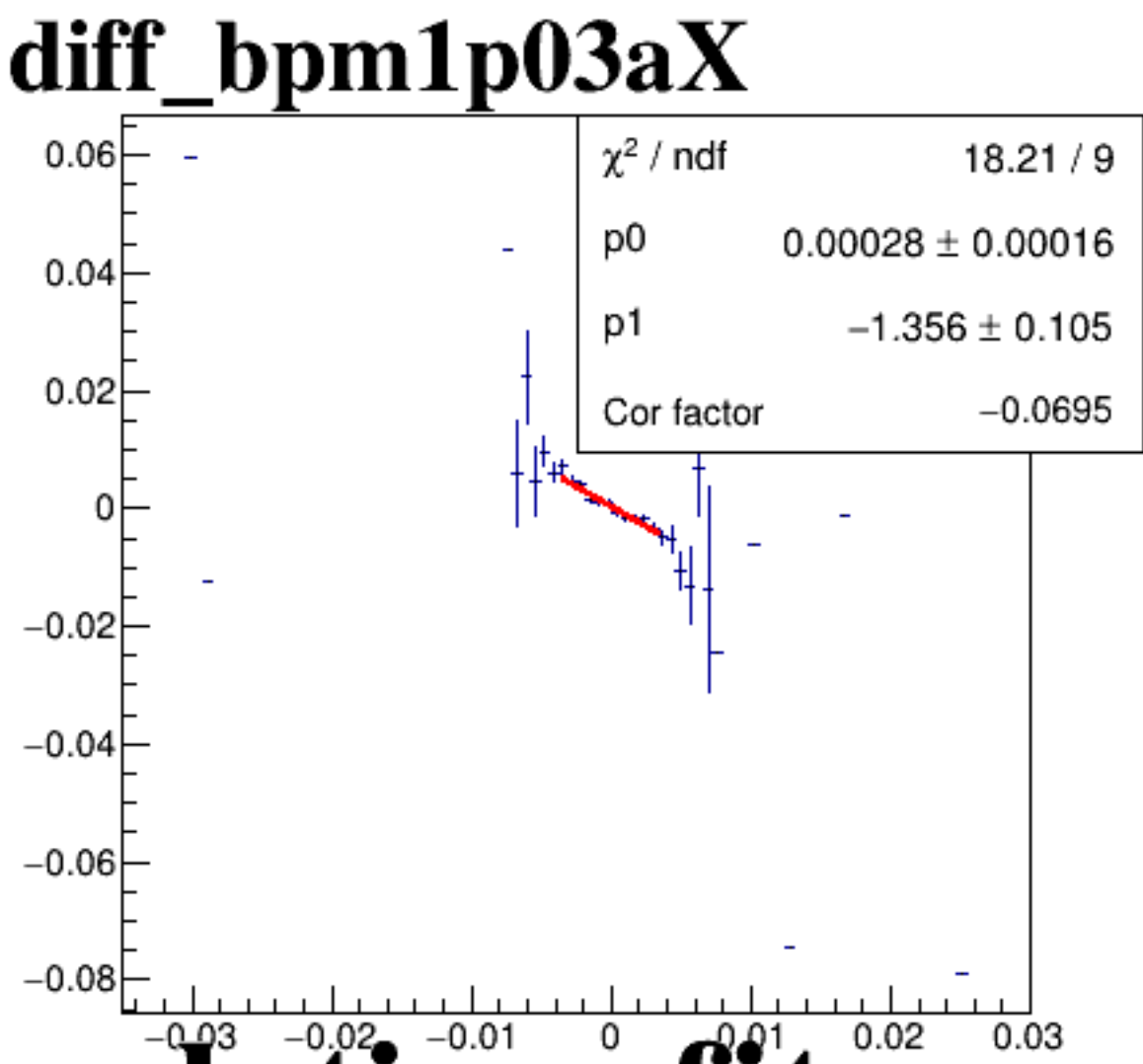
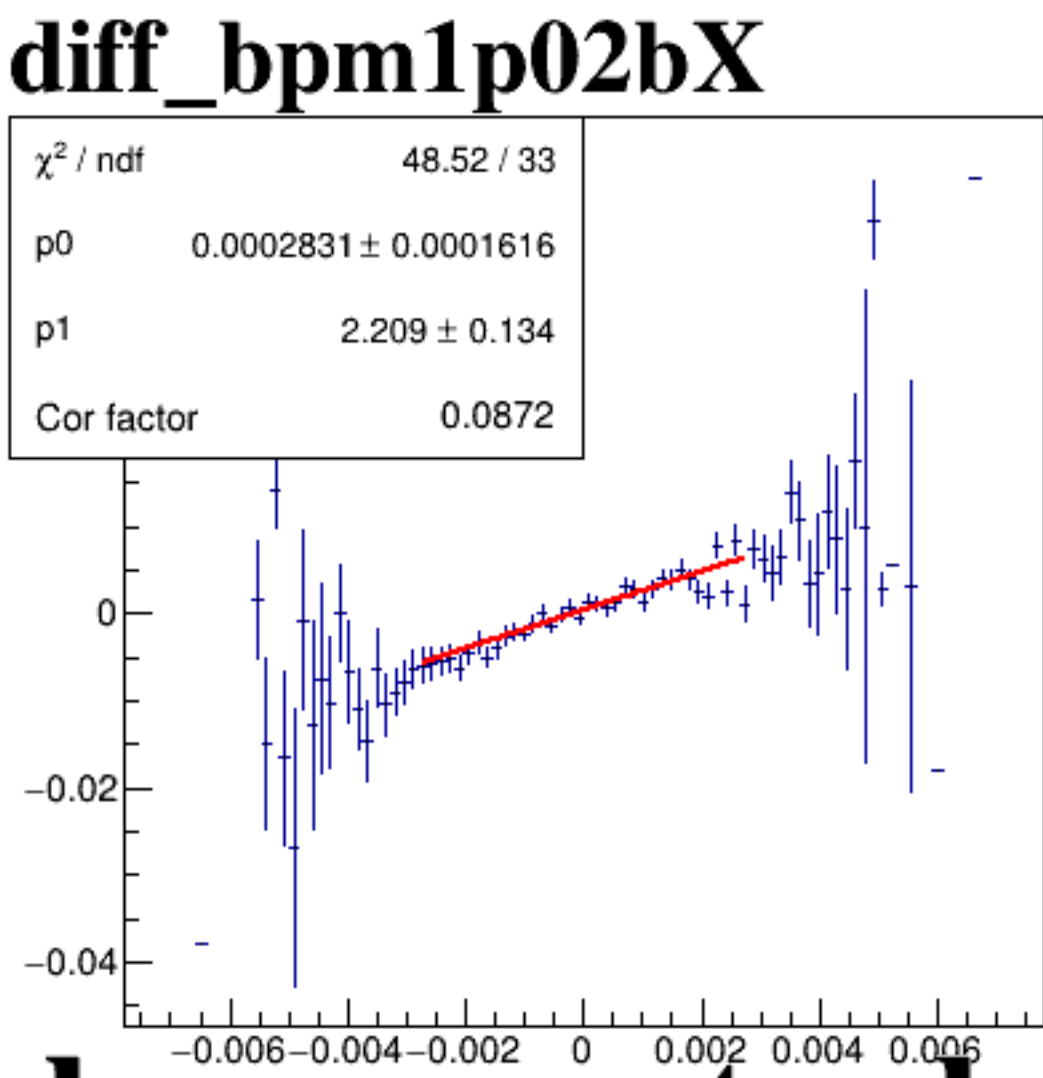
diff_bpm4eX



diff_bpm4eY



diff_bpm12X

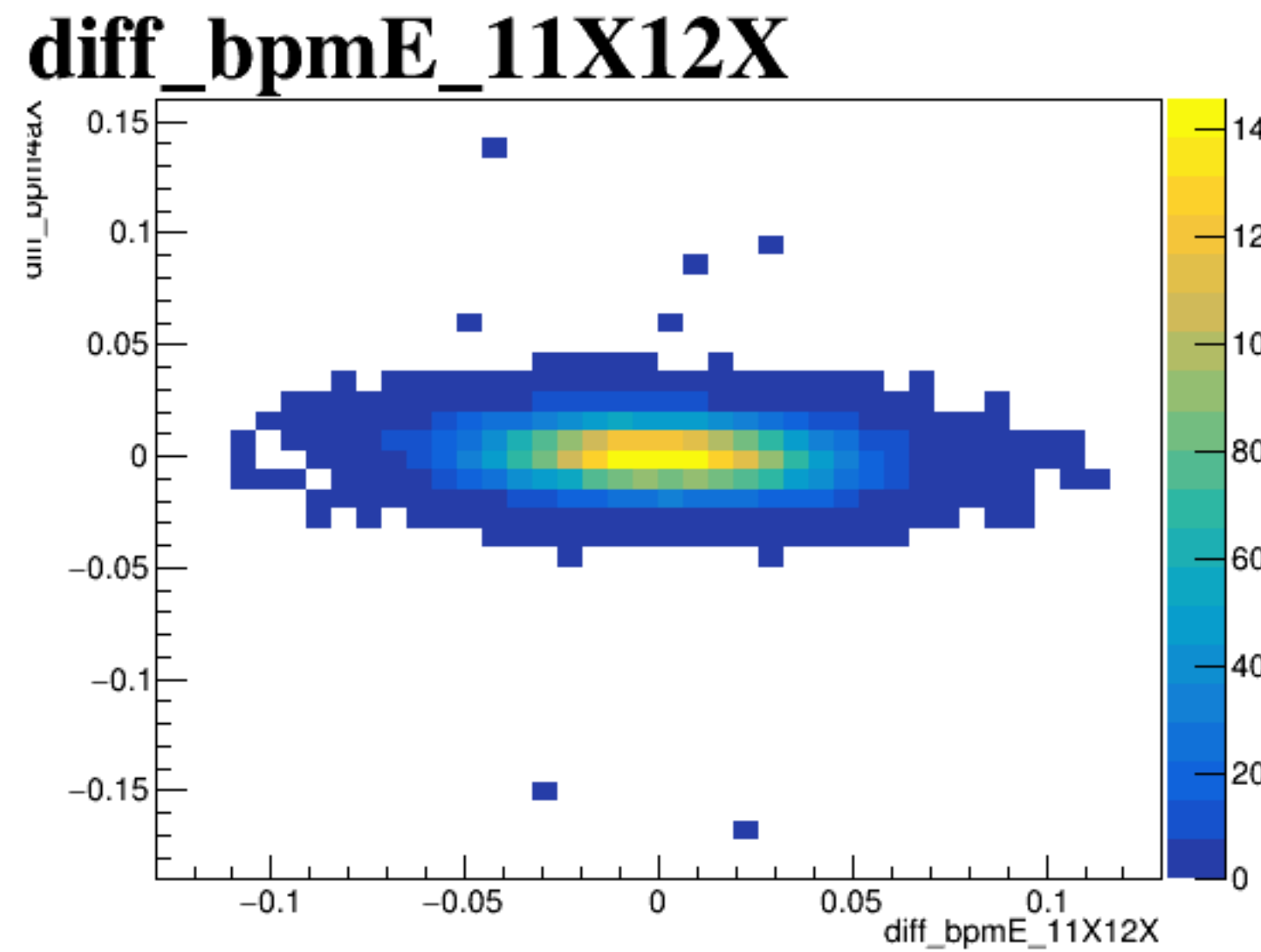
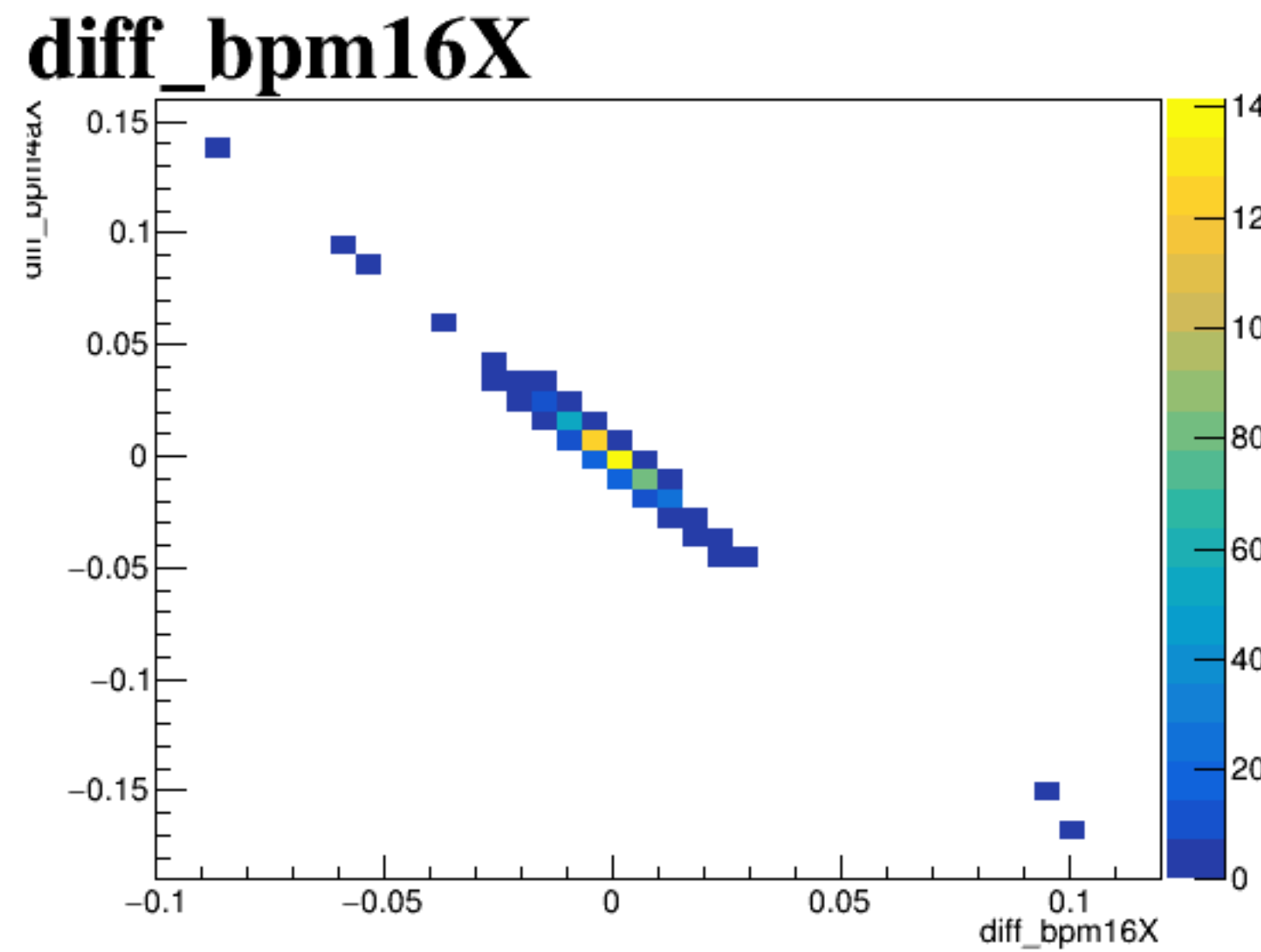
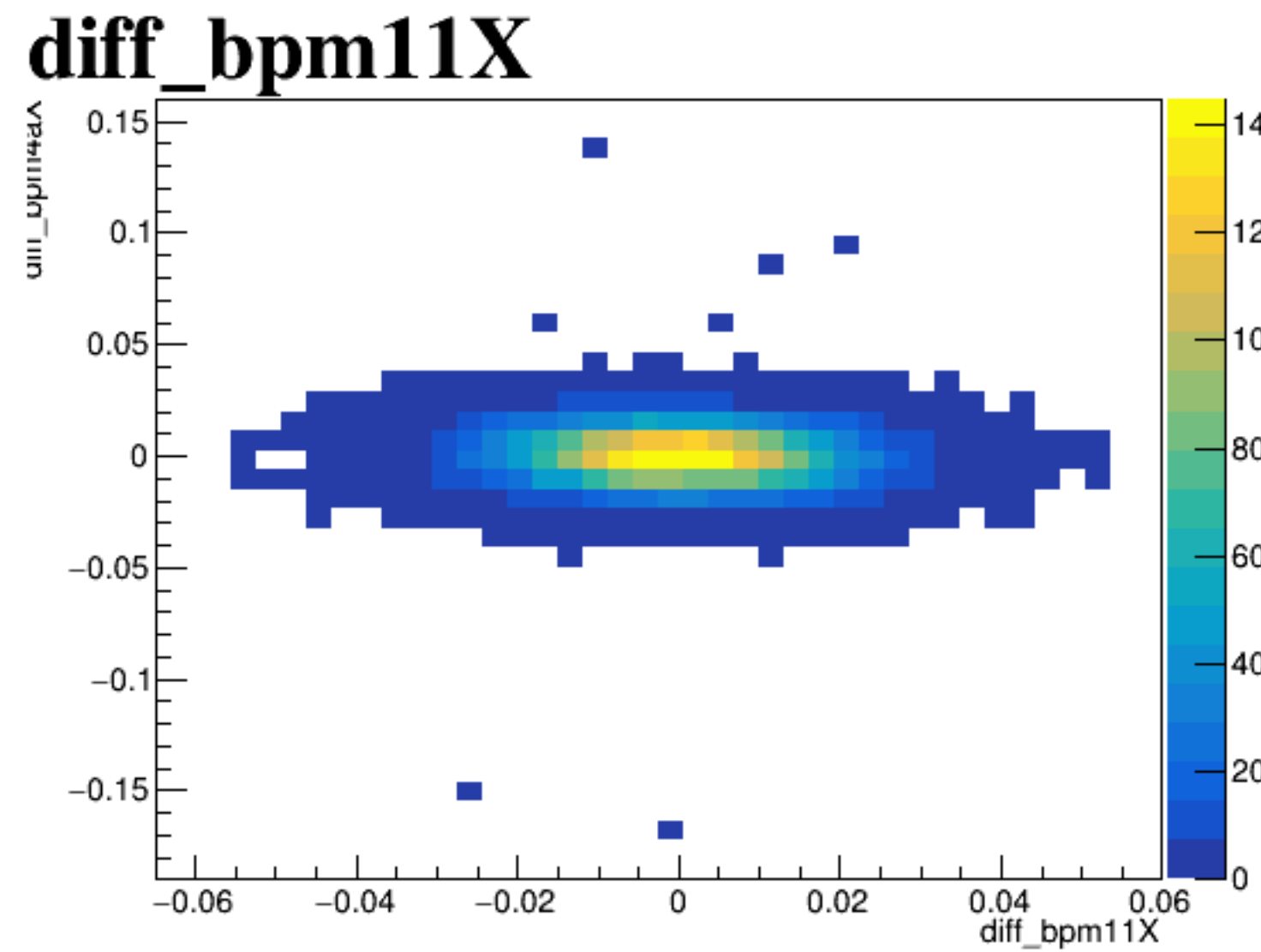


A scatter plot titled "diff_bpm1Y". The x-axis is labeled "diff_bpm1Y" and ranges from -0.03 to 0.03 with major ticks every 0.01. The y-axis ranges from -0.15 to 0.15 with major ticks every 0.05. The plot shows a dense, roughly elliptical cloud of points centered at (0,0), with most points falling within the range [-0.02, 0.02] on the x-axis and [-0.05, 0.05] on the y-axis.

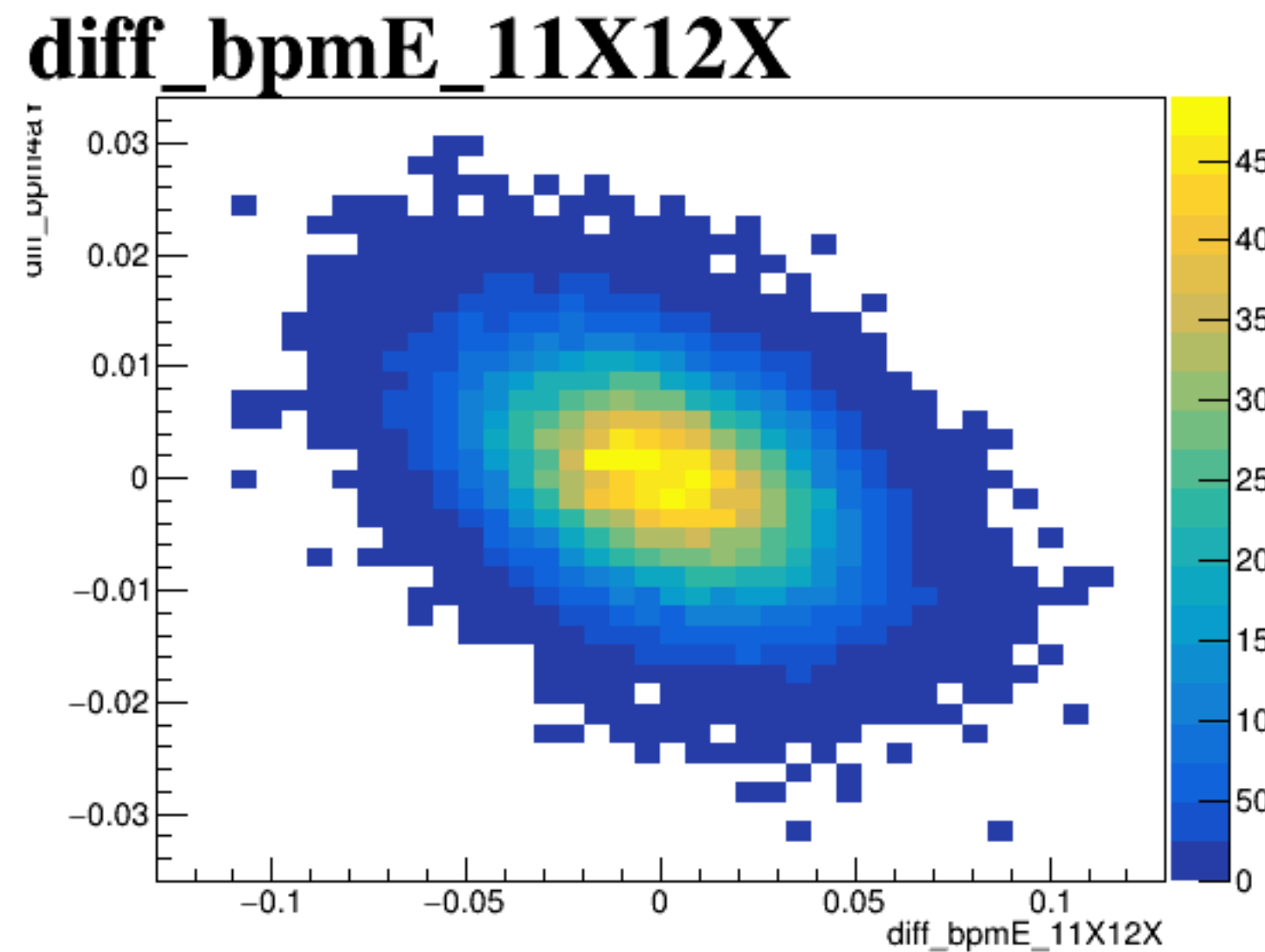
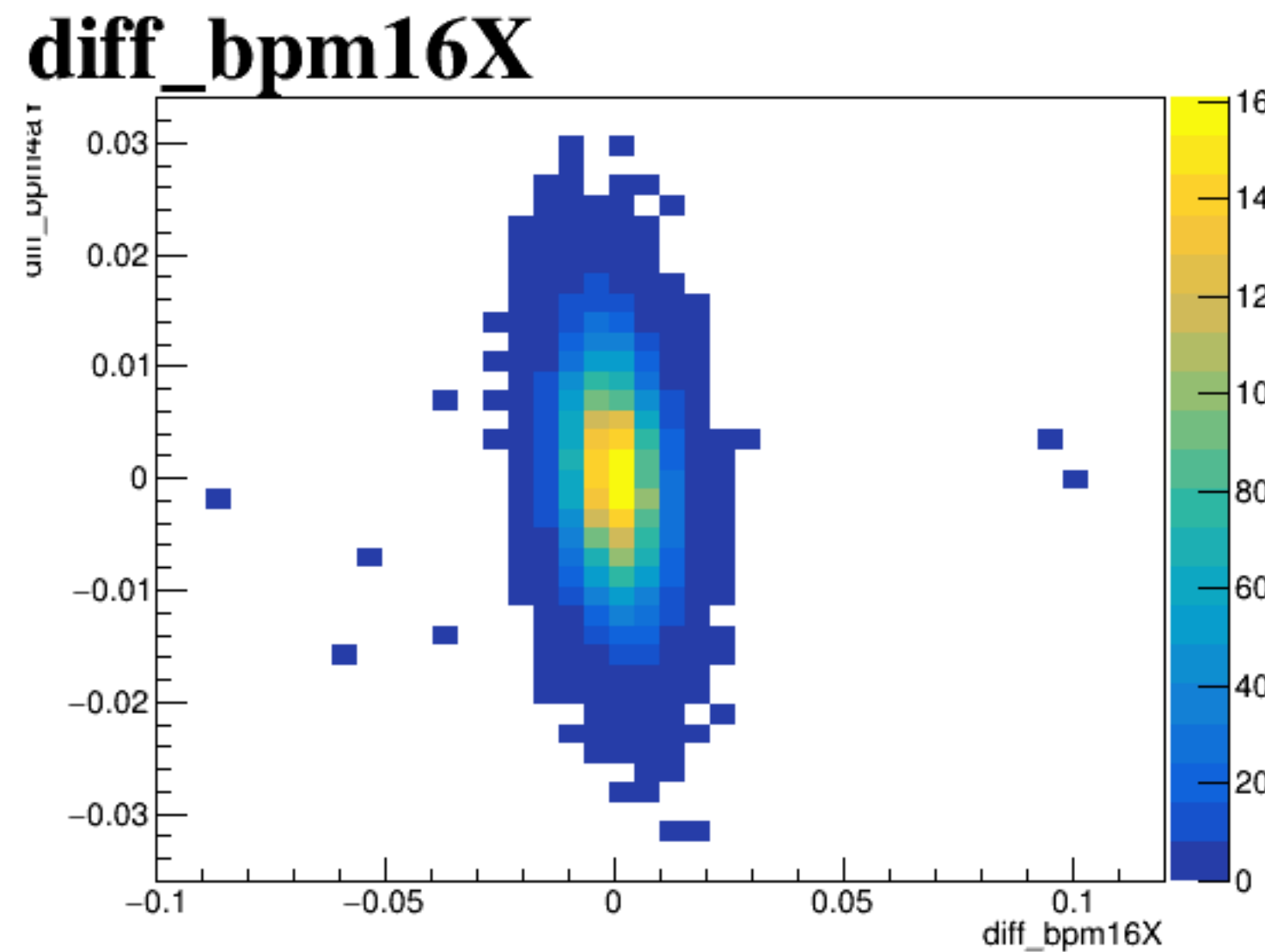
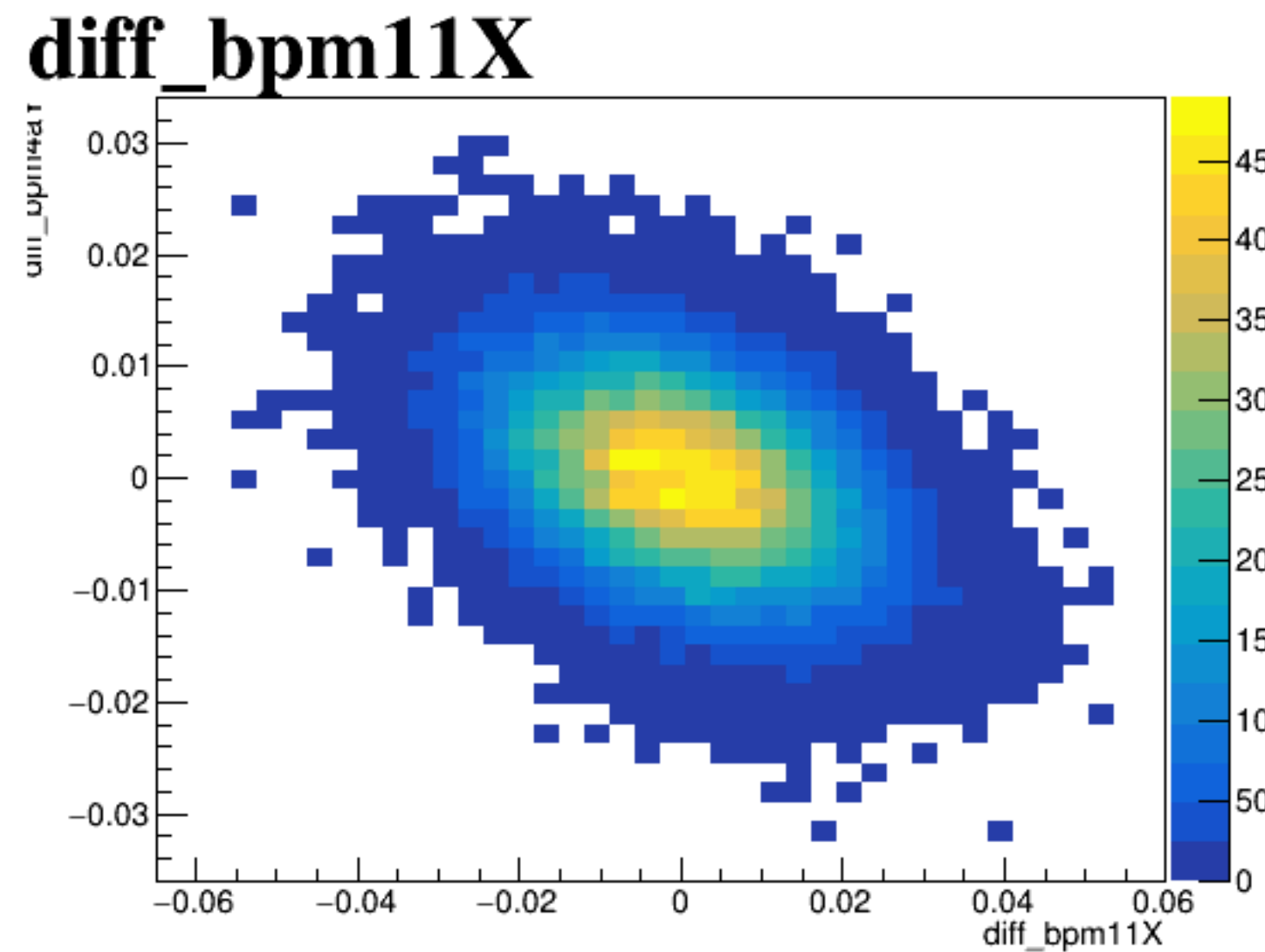
A scatter plot titled "diff_bpm1Y" showing a dense cloud of points centered around (0,0). The x-axis is labeled "diff_bpm1Y" and ranges from -0.03 to 0.03. The y-axis ranges from -0.15 to 0.15.

A scatter plot showing the relationship between two variables, both labeled `diff_bpm1Y`. The plot displays a dense, elliptical cloud of points centered around the origin (0,0). The axes range from approximately -0.03 to 0.03, with major tick marks every 0.01 units. The distribution is elongated along the diagonal, indicating a strong positive correlation between the two variables.

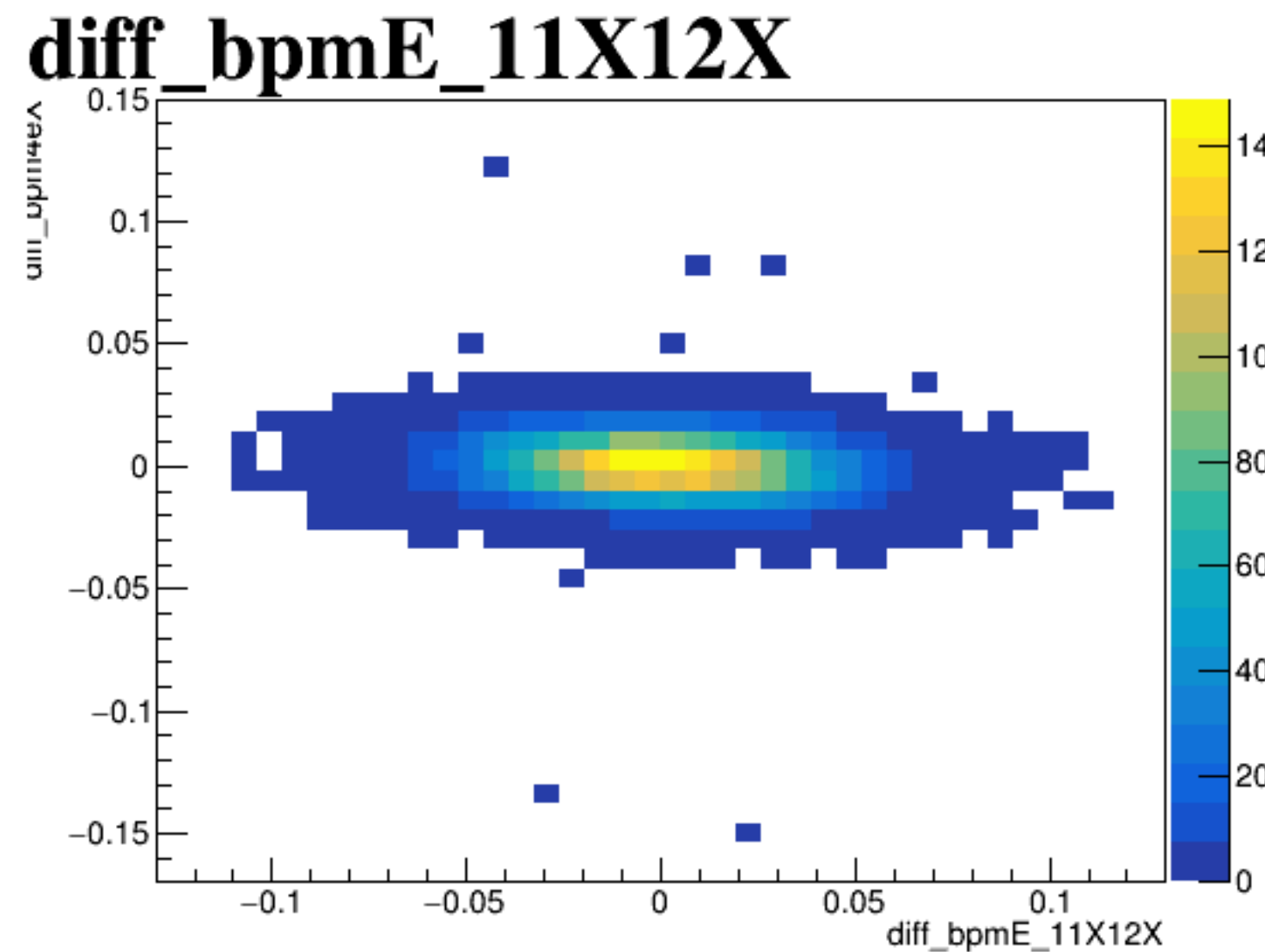
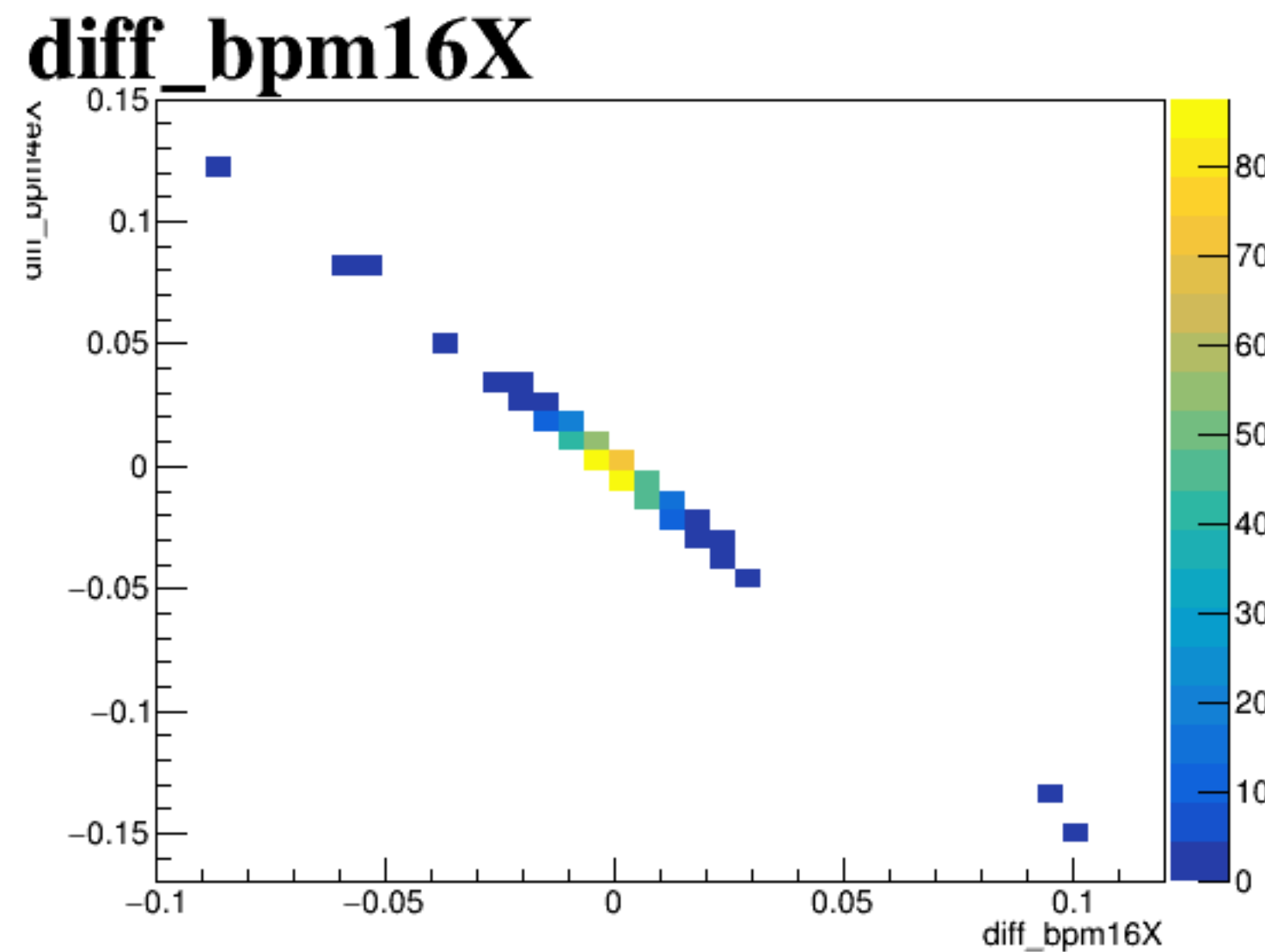
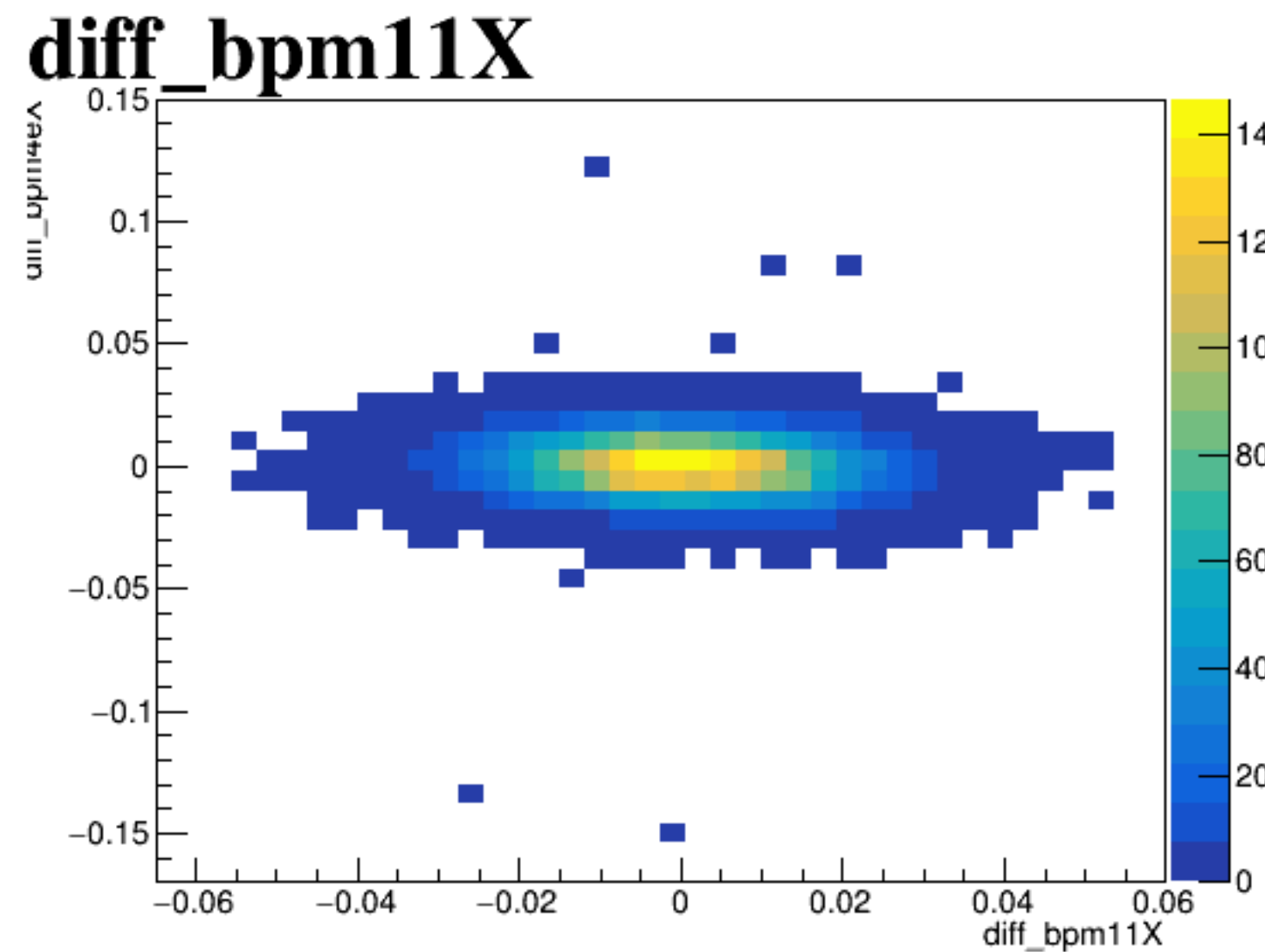
diff_bpm4aX



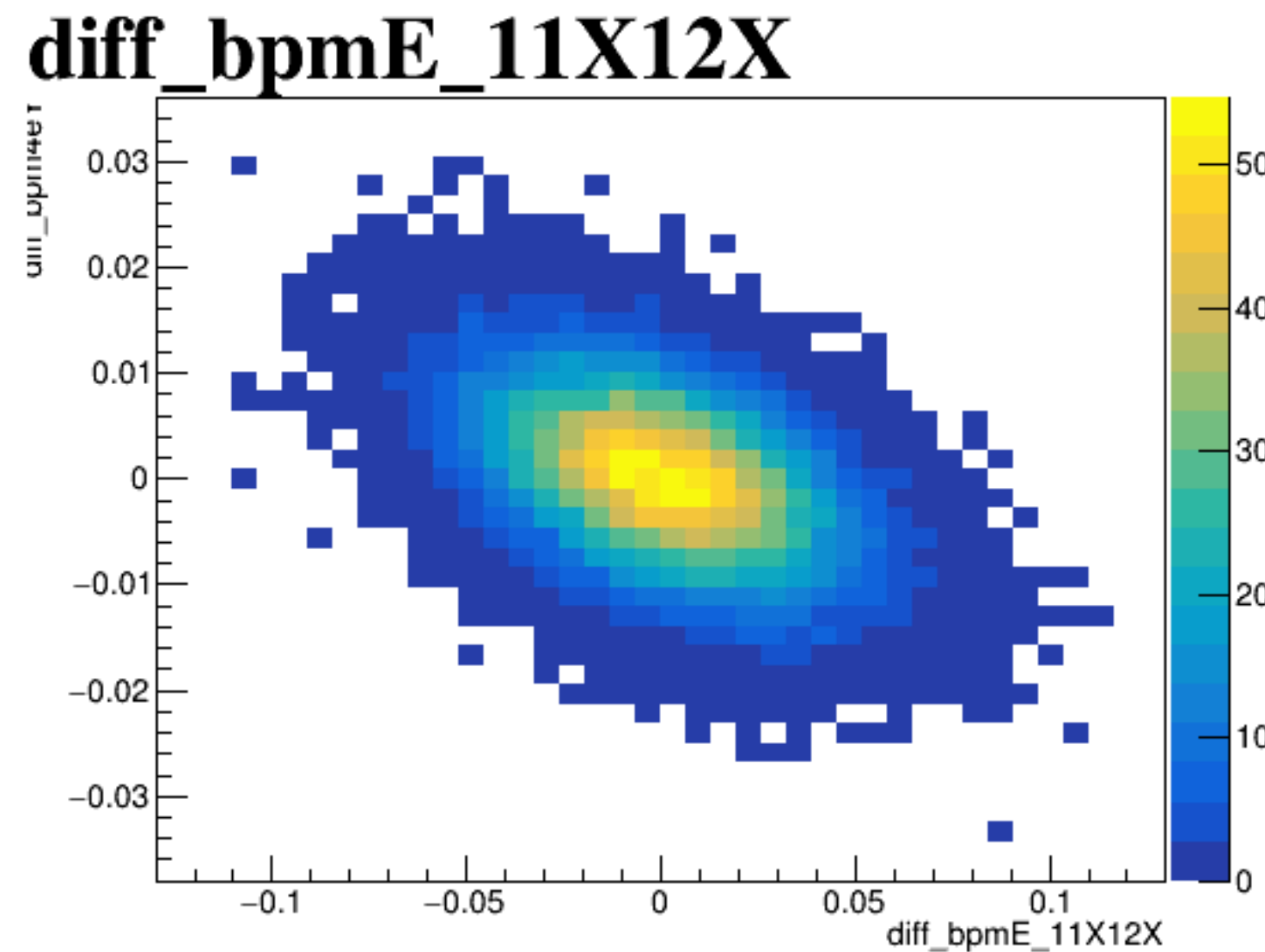
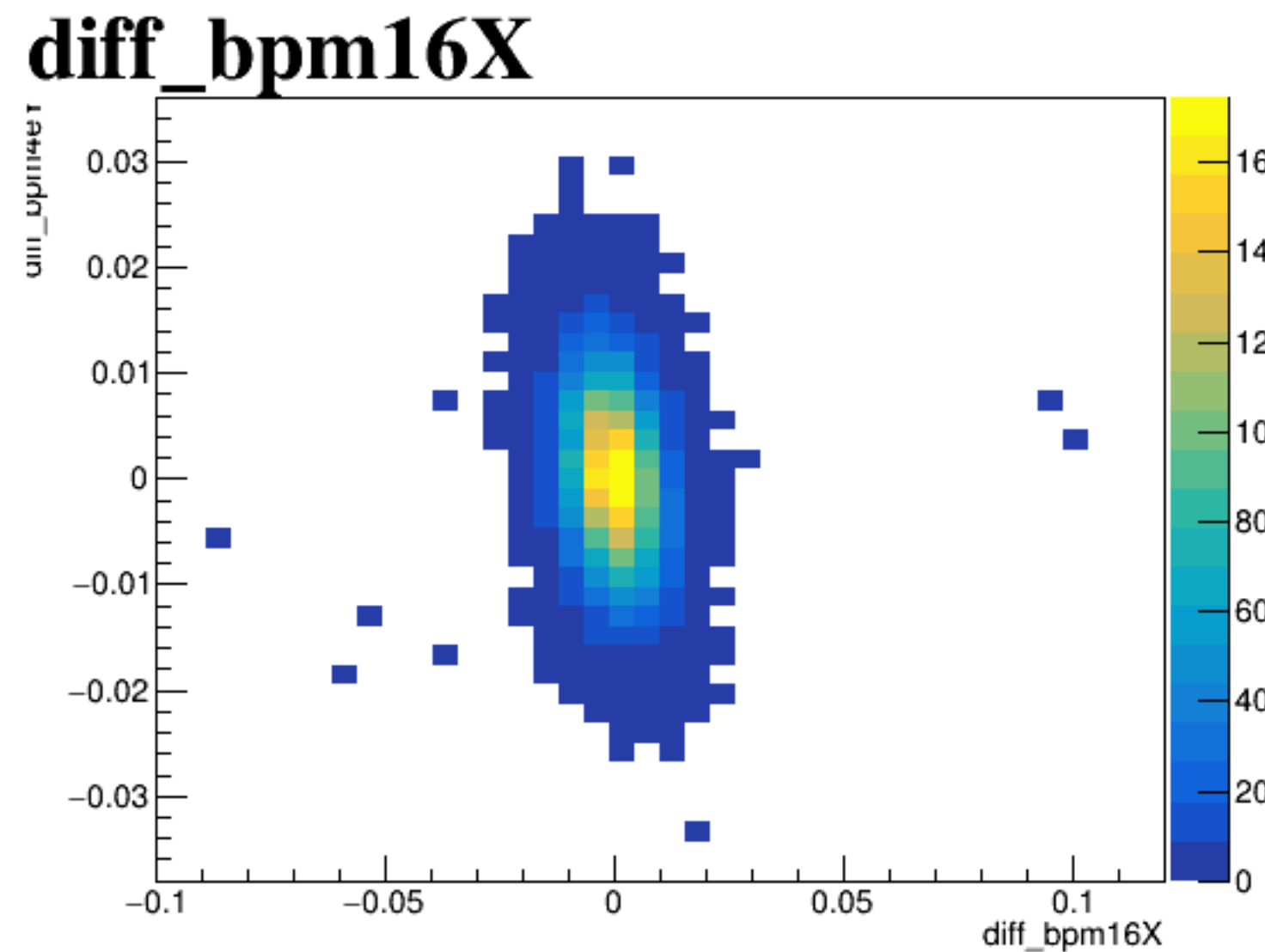
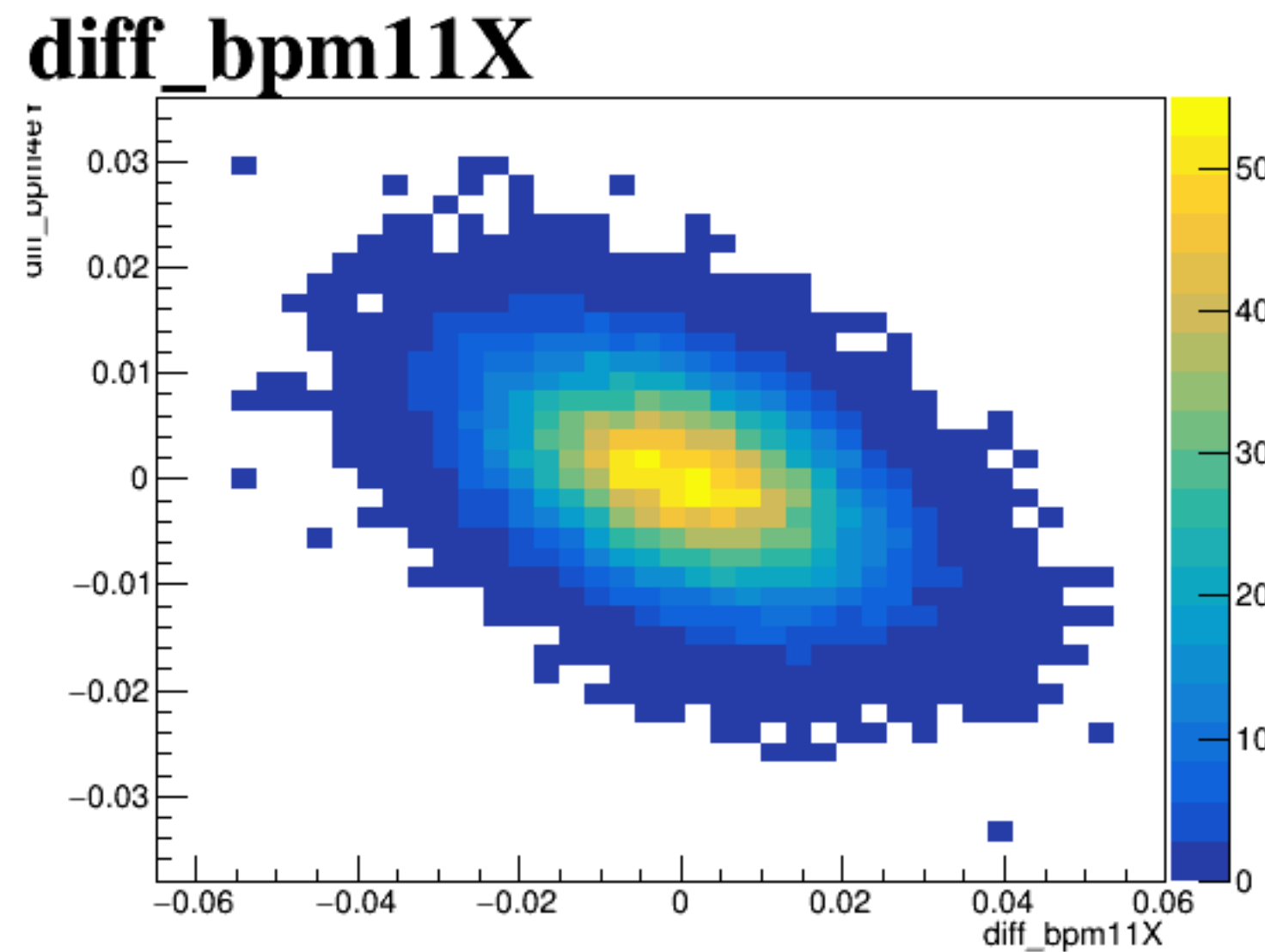
diff_bpm4aY



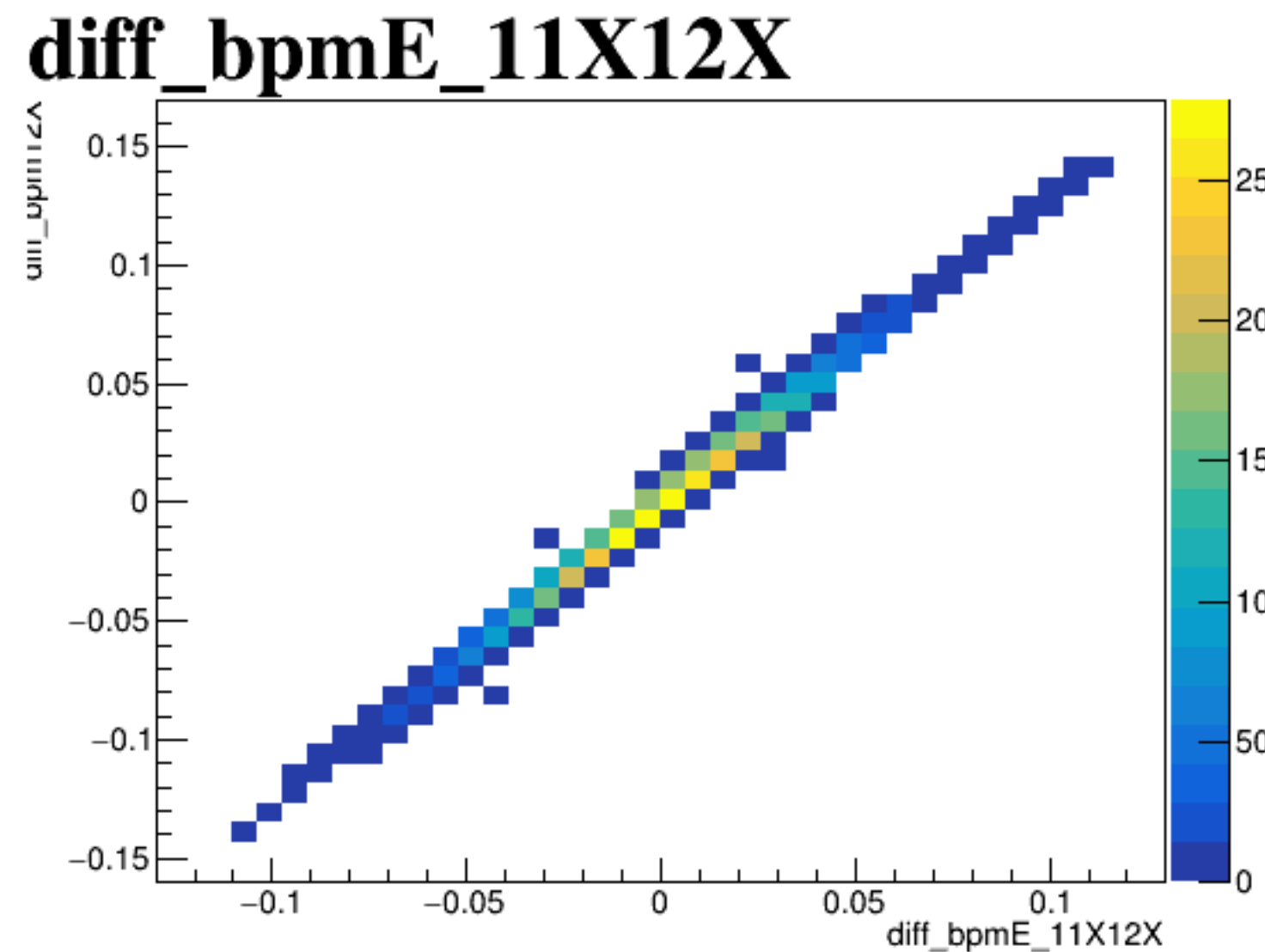
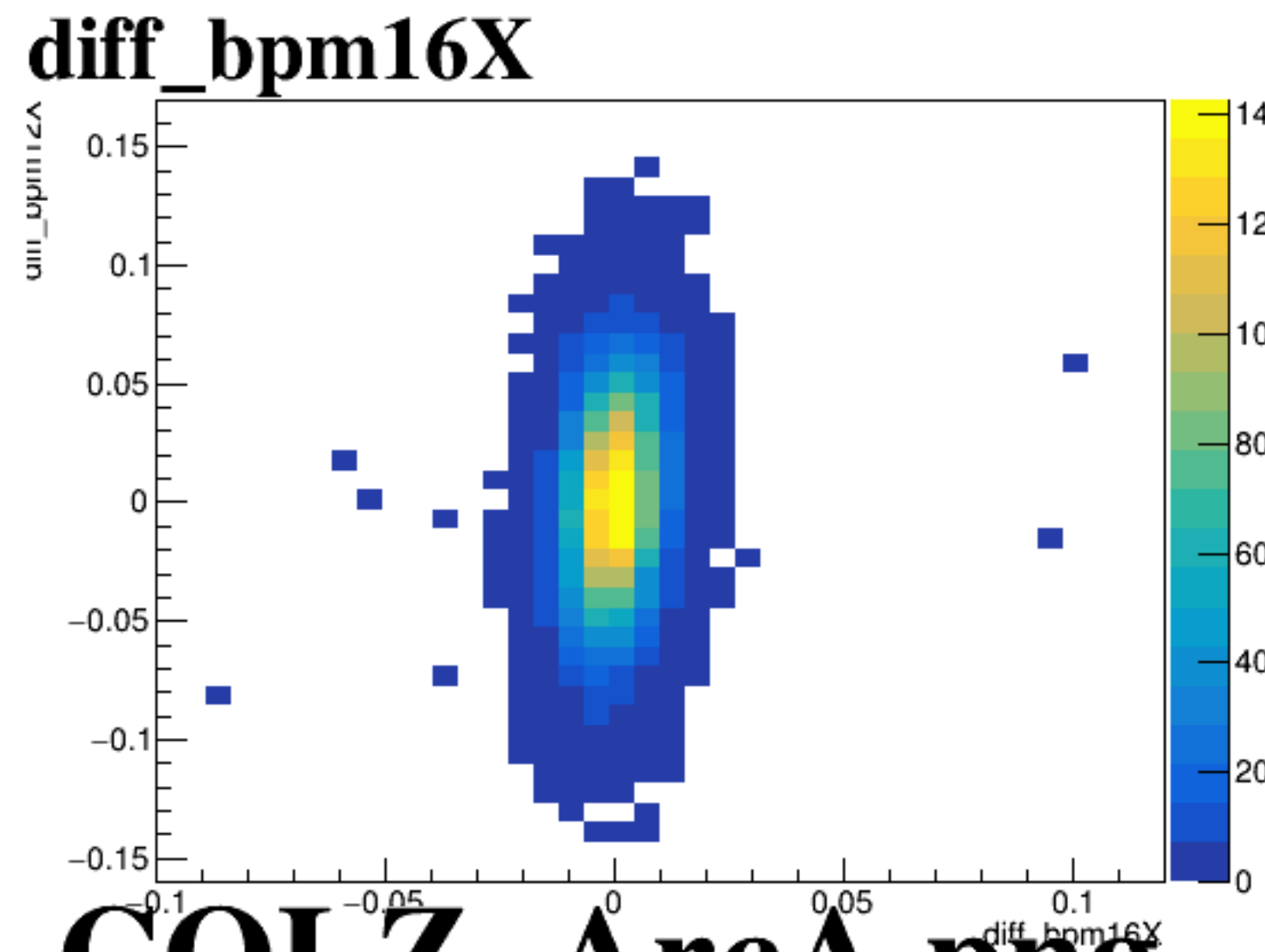
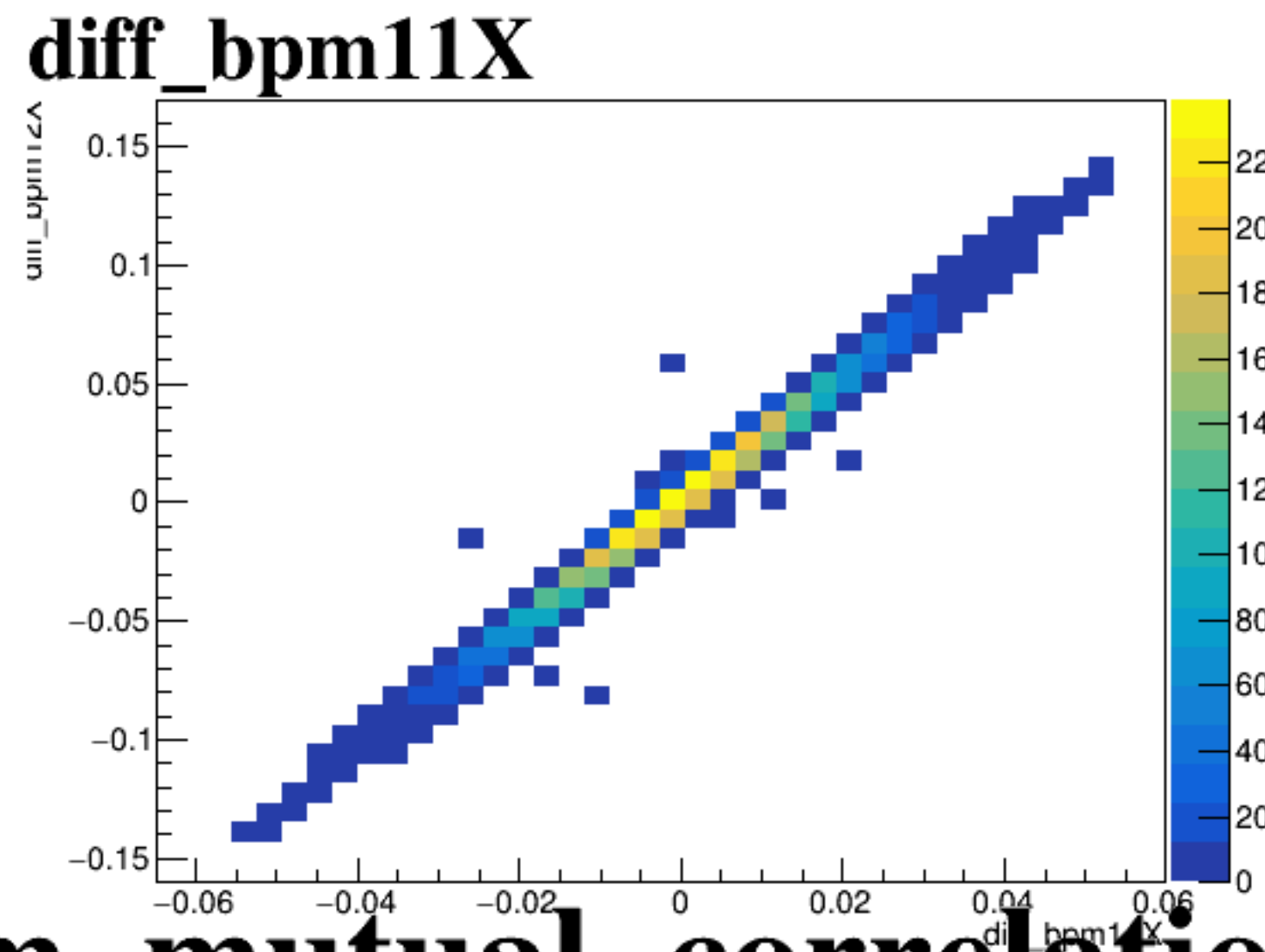
diff_bpm4eX



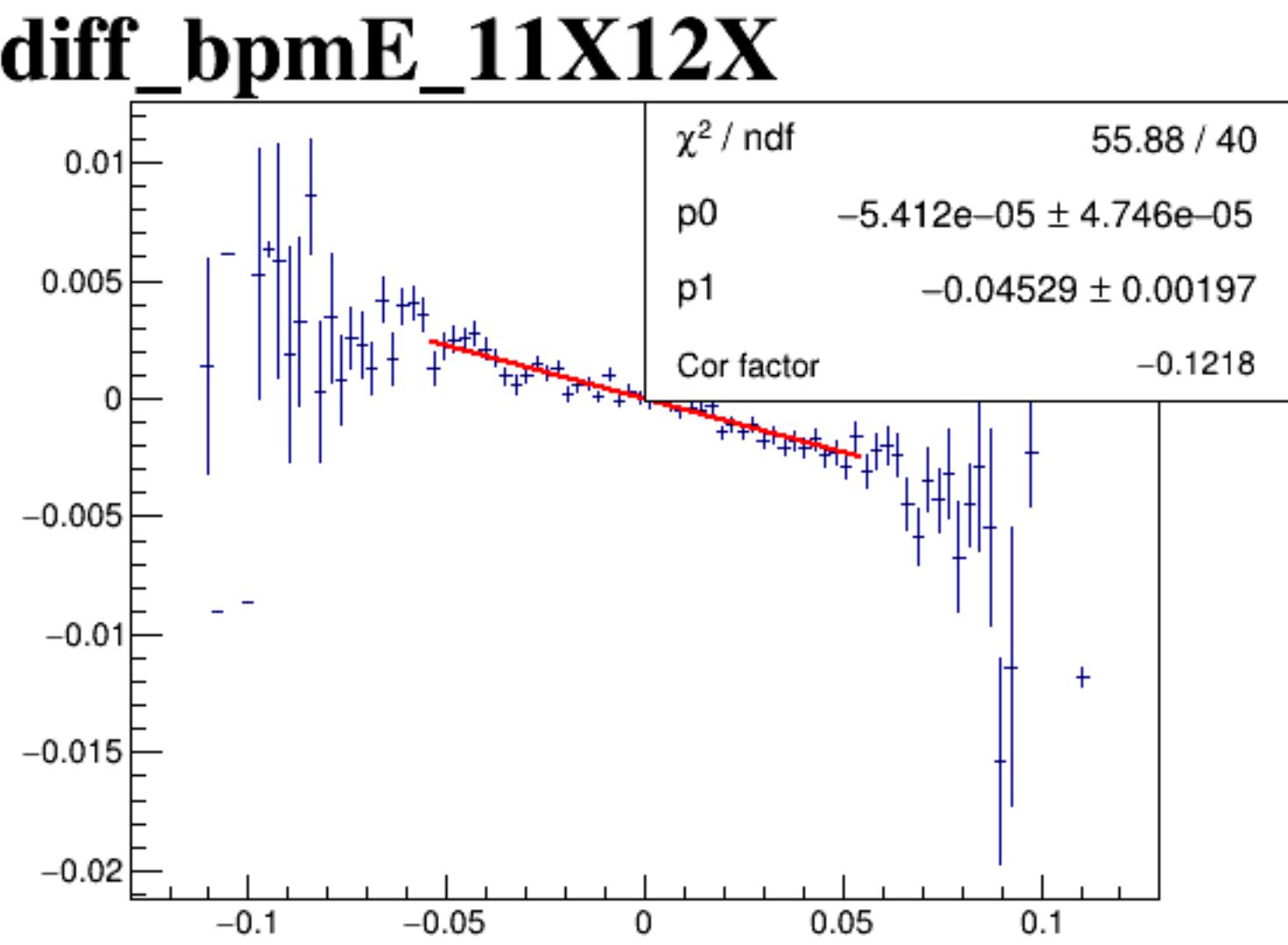
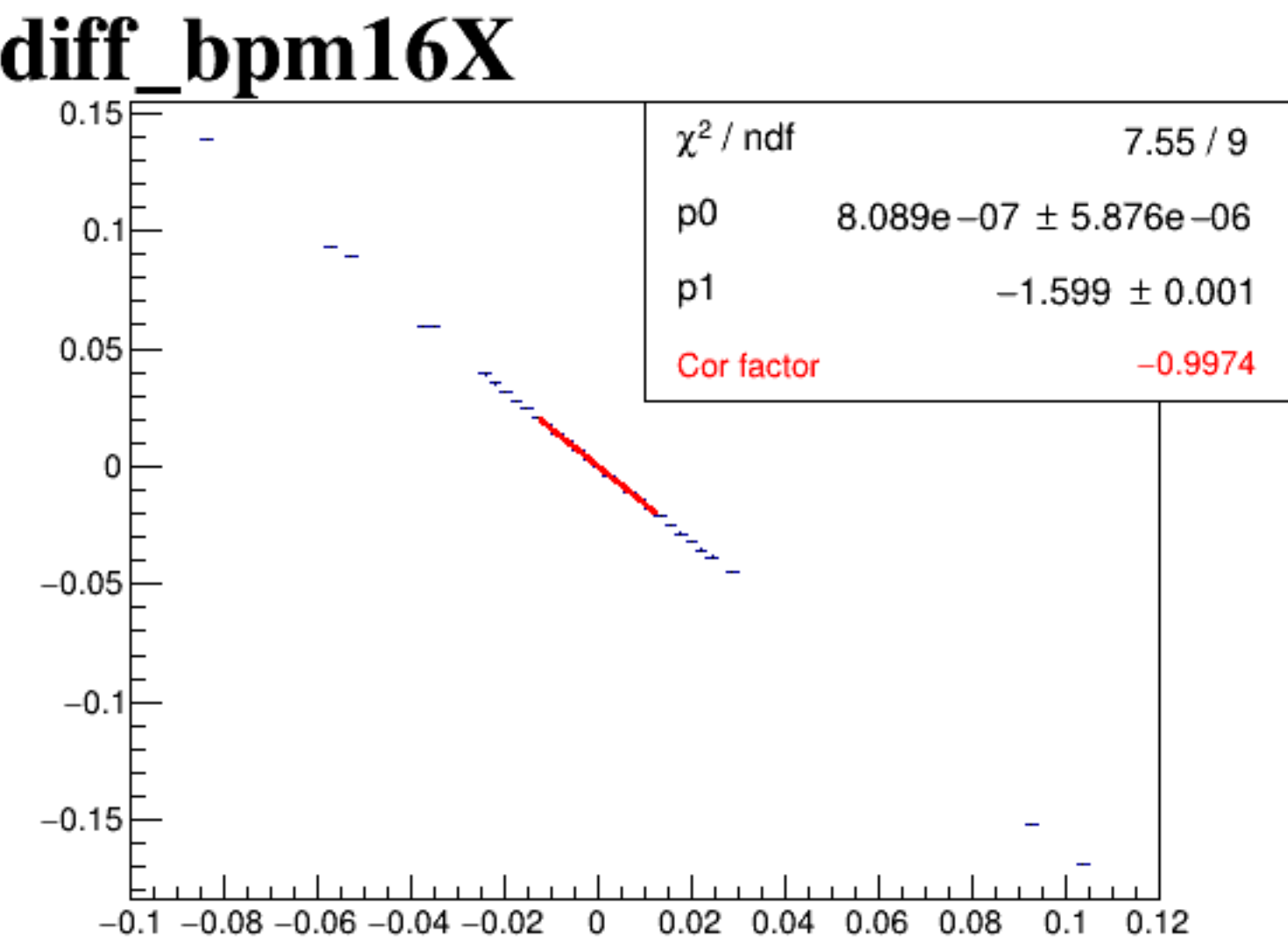
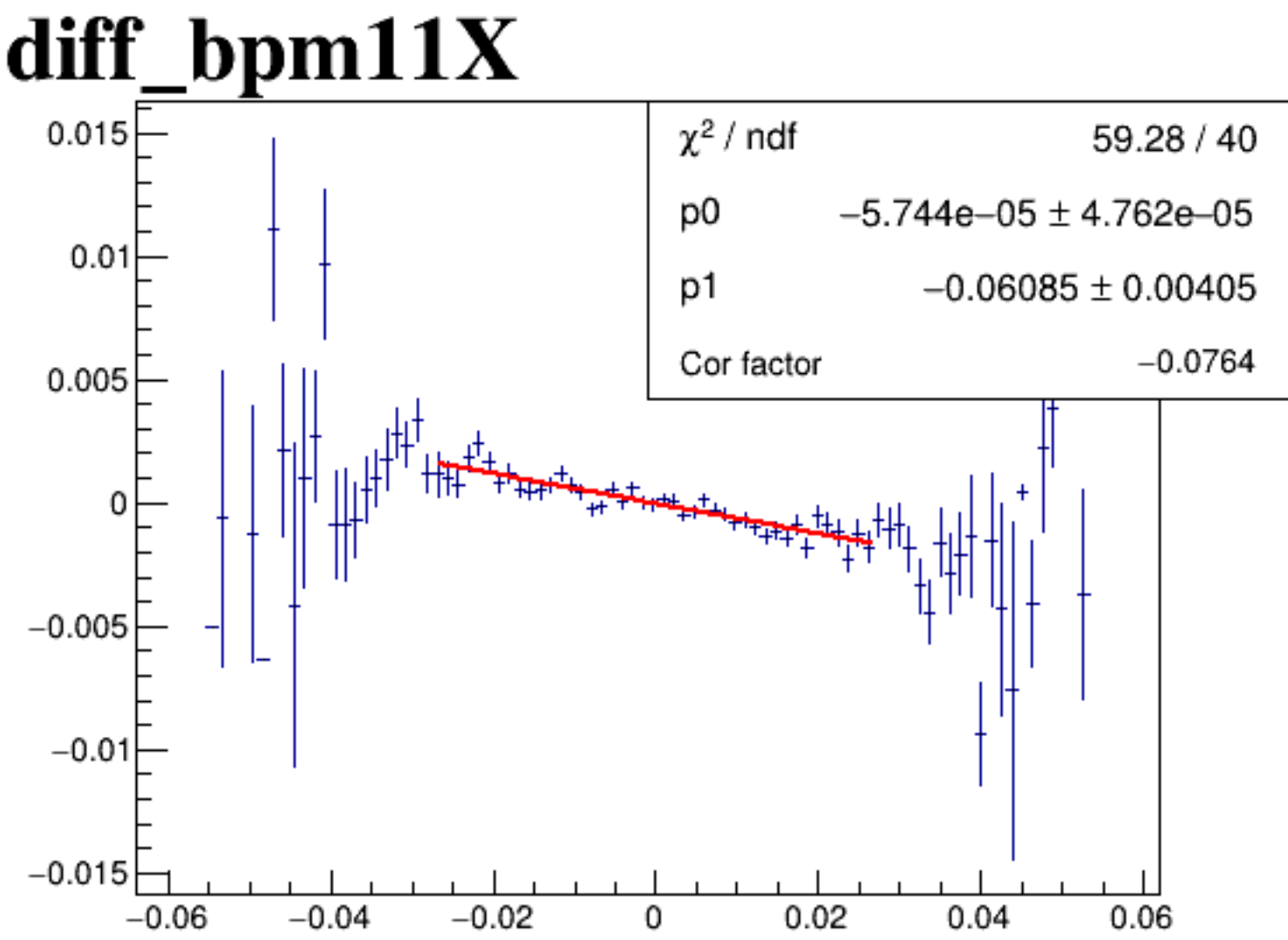
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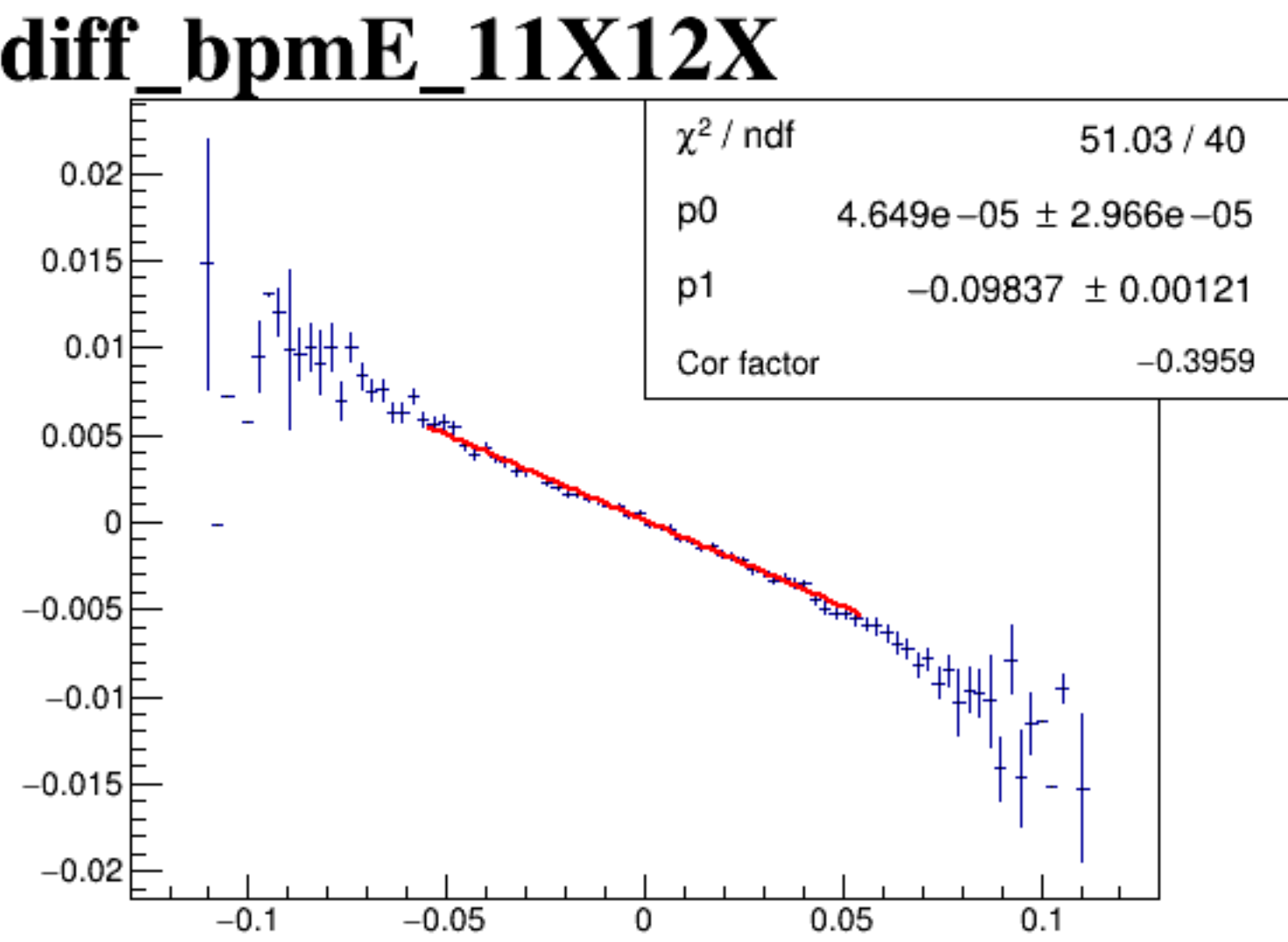
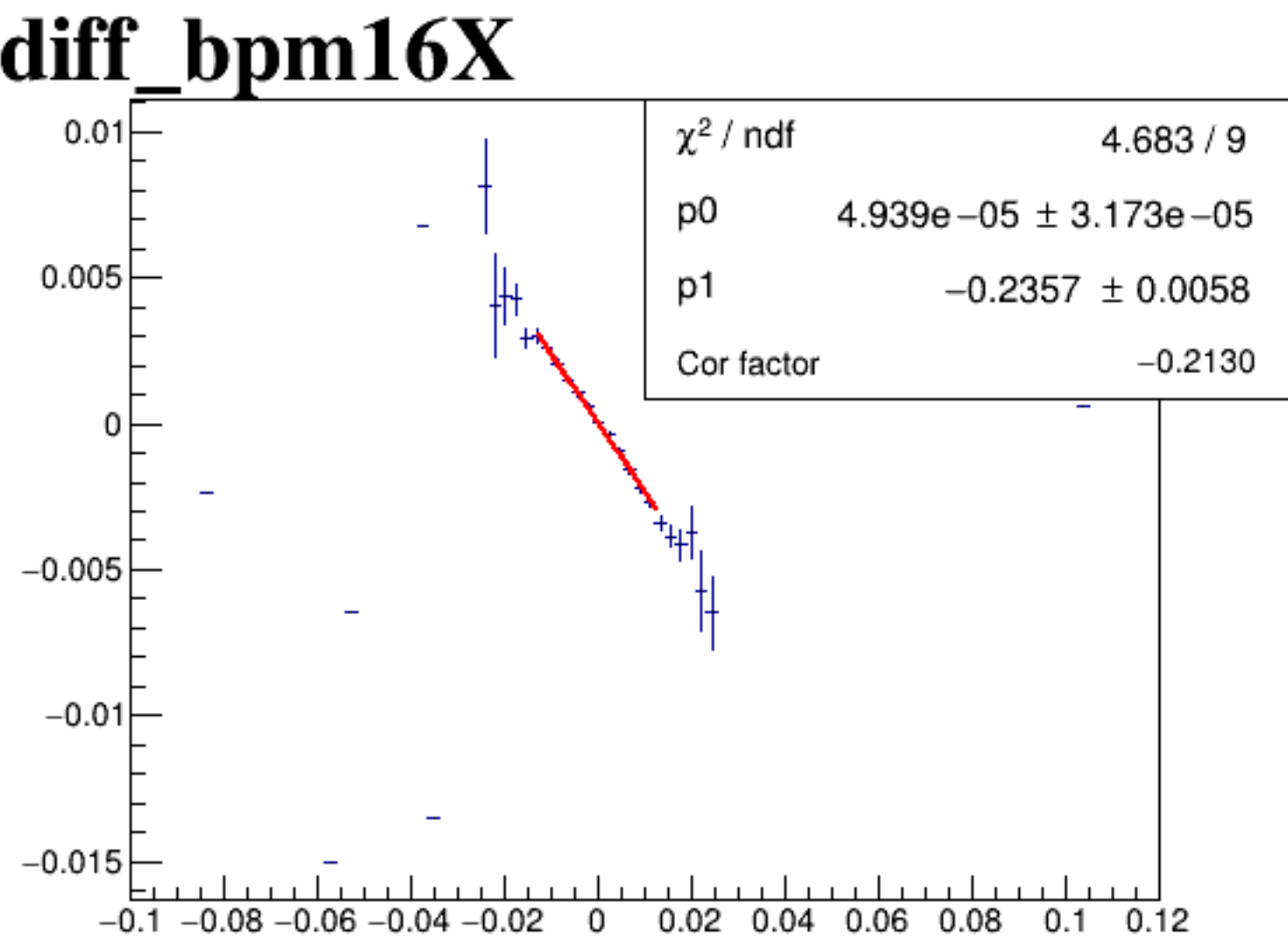
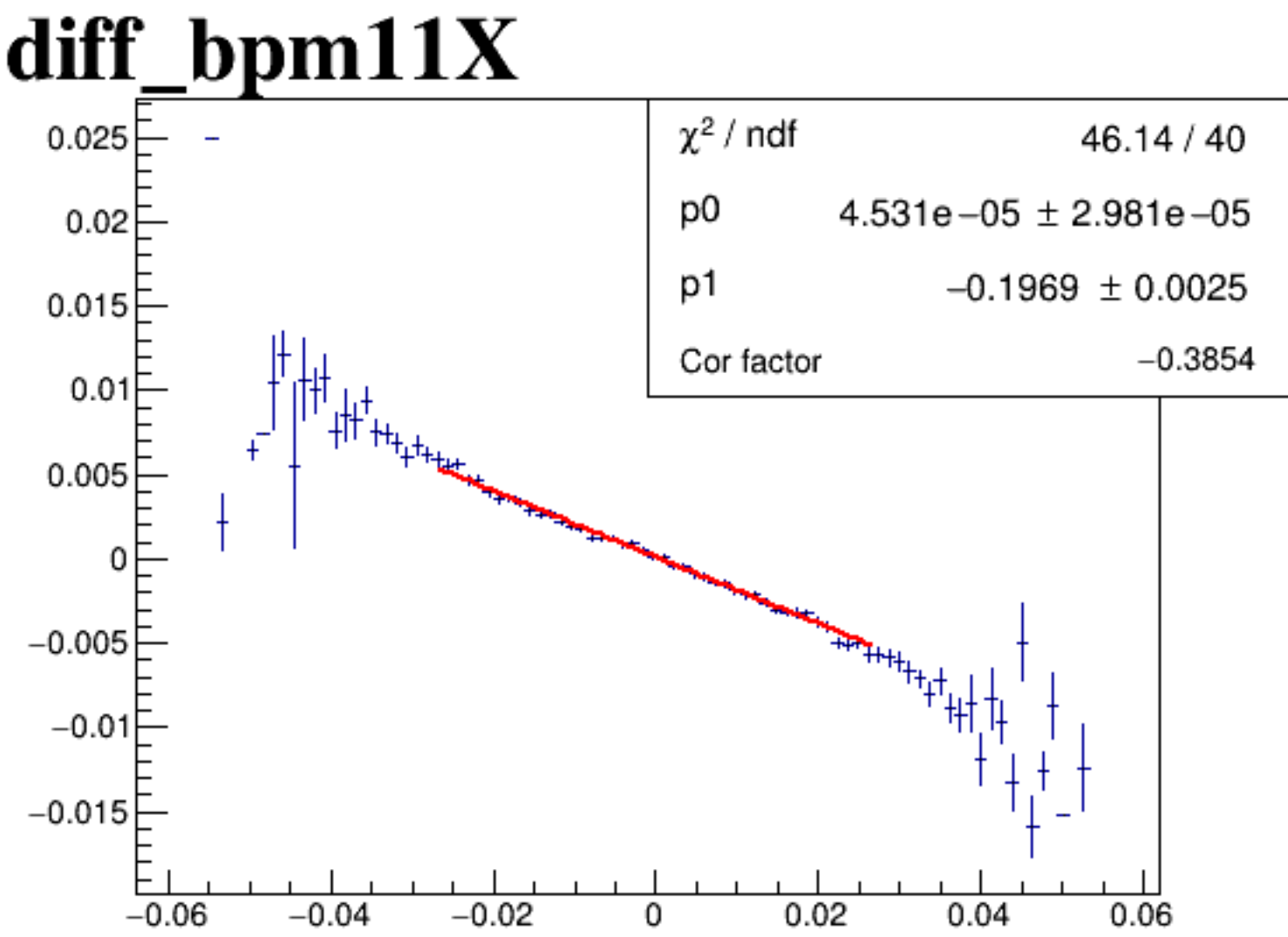
diff_bpm12X



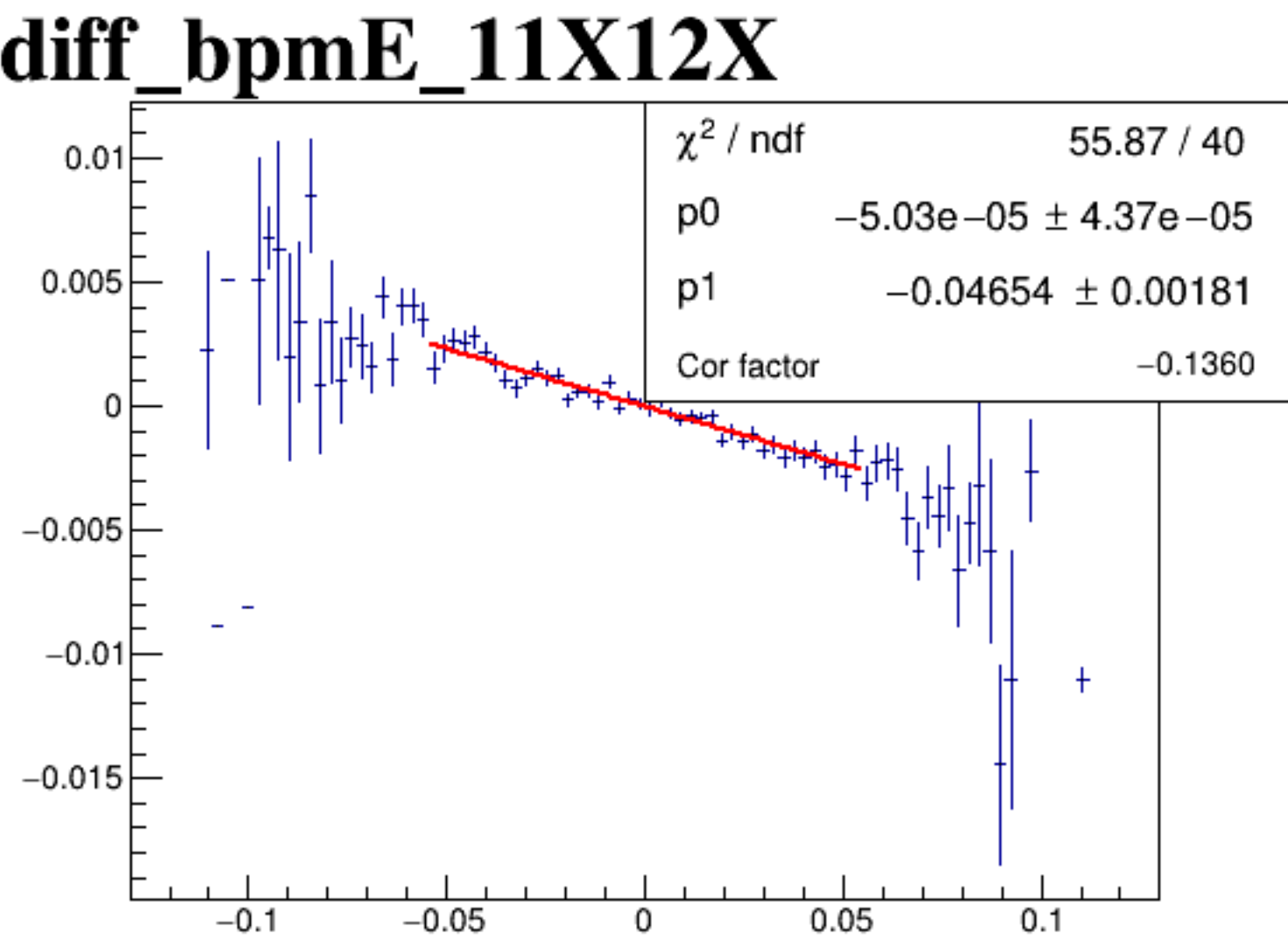
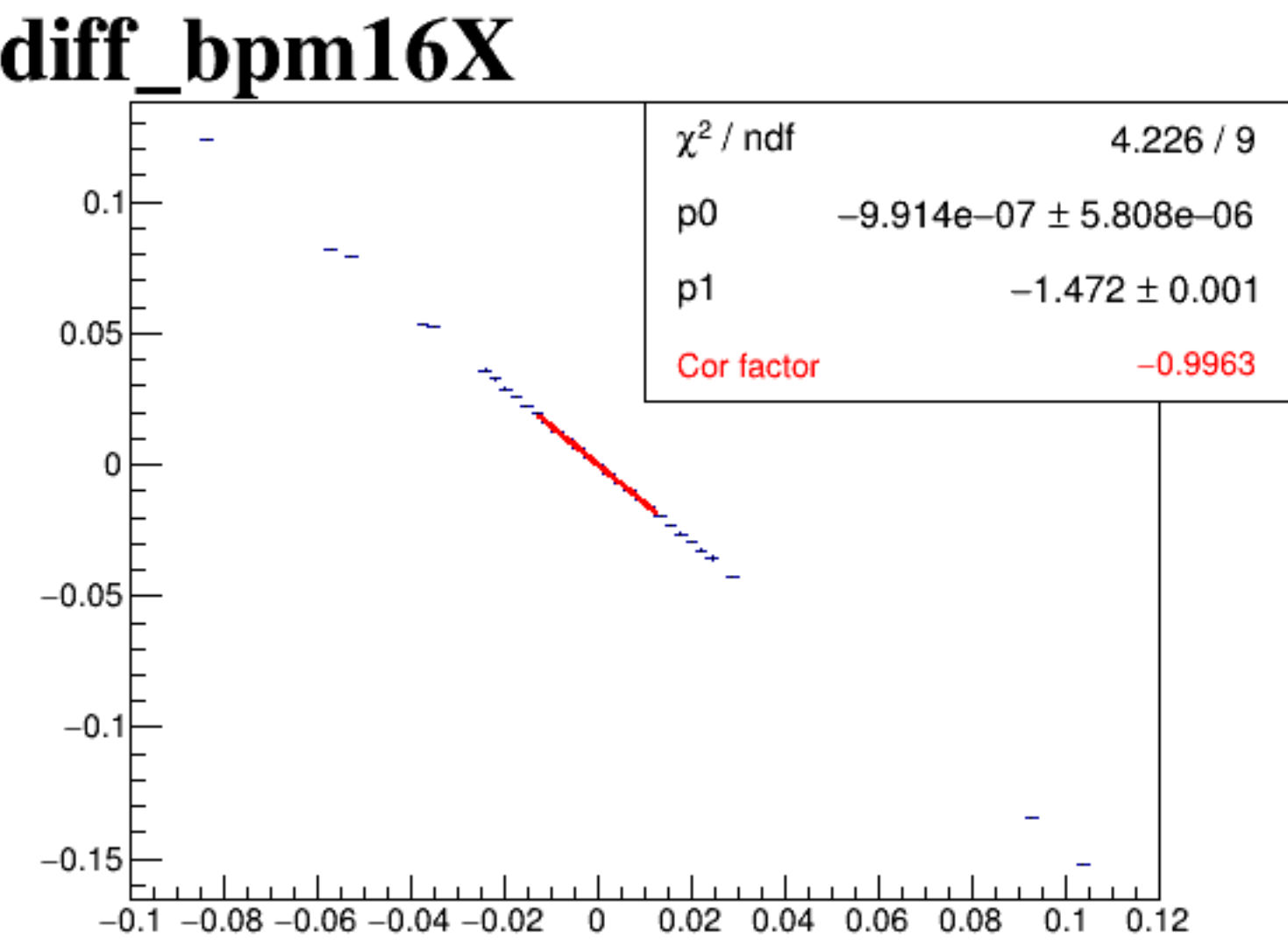
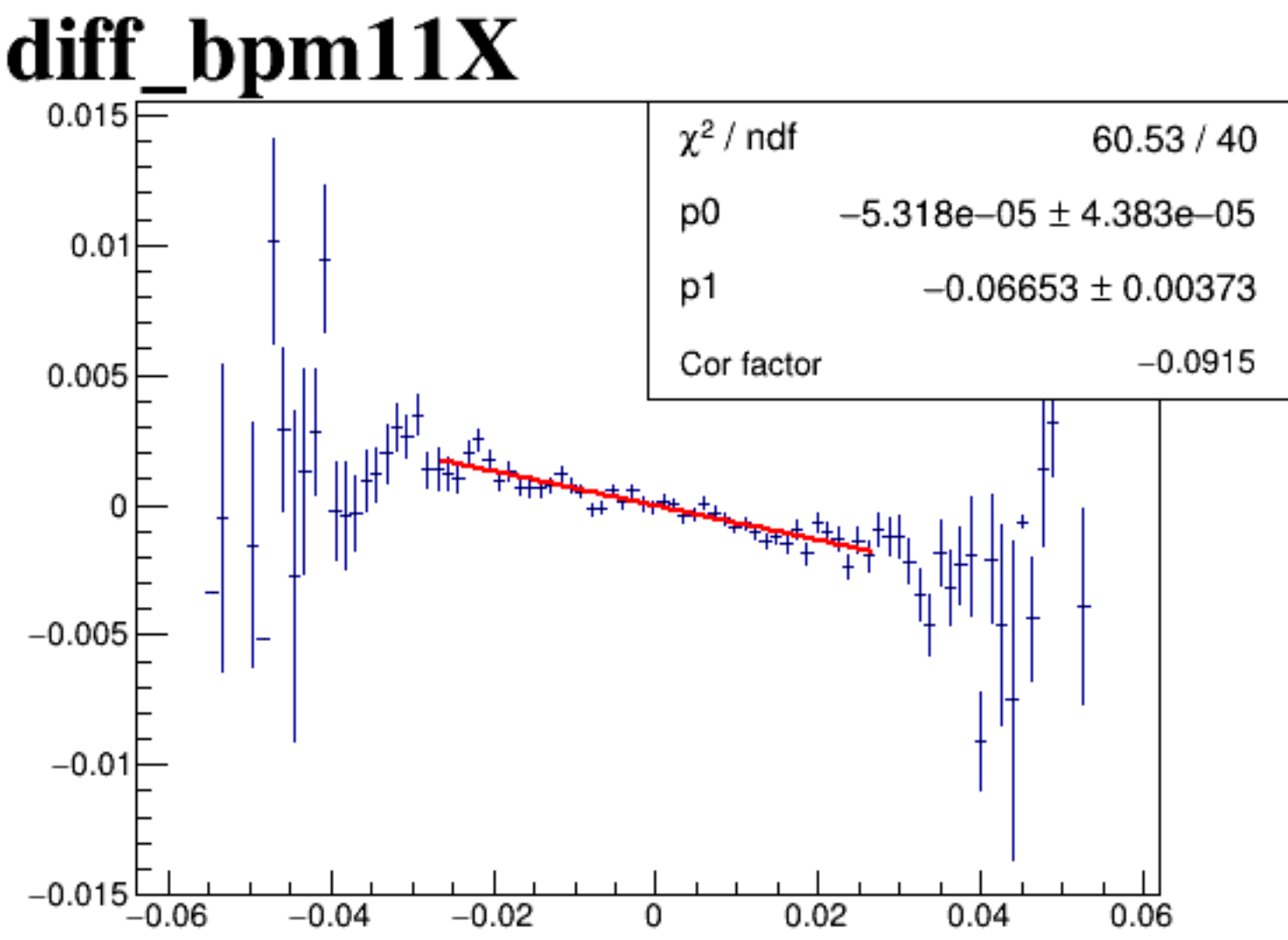
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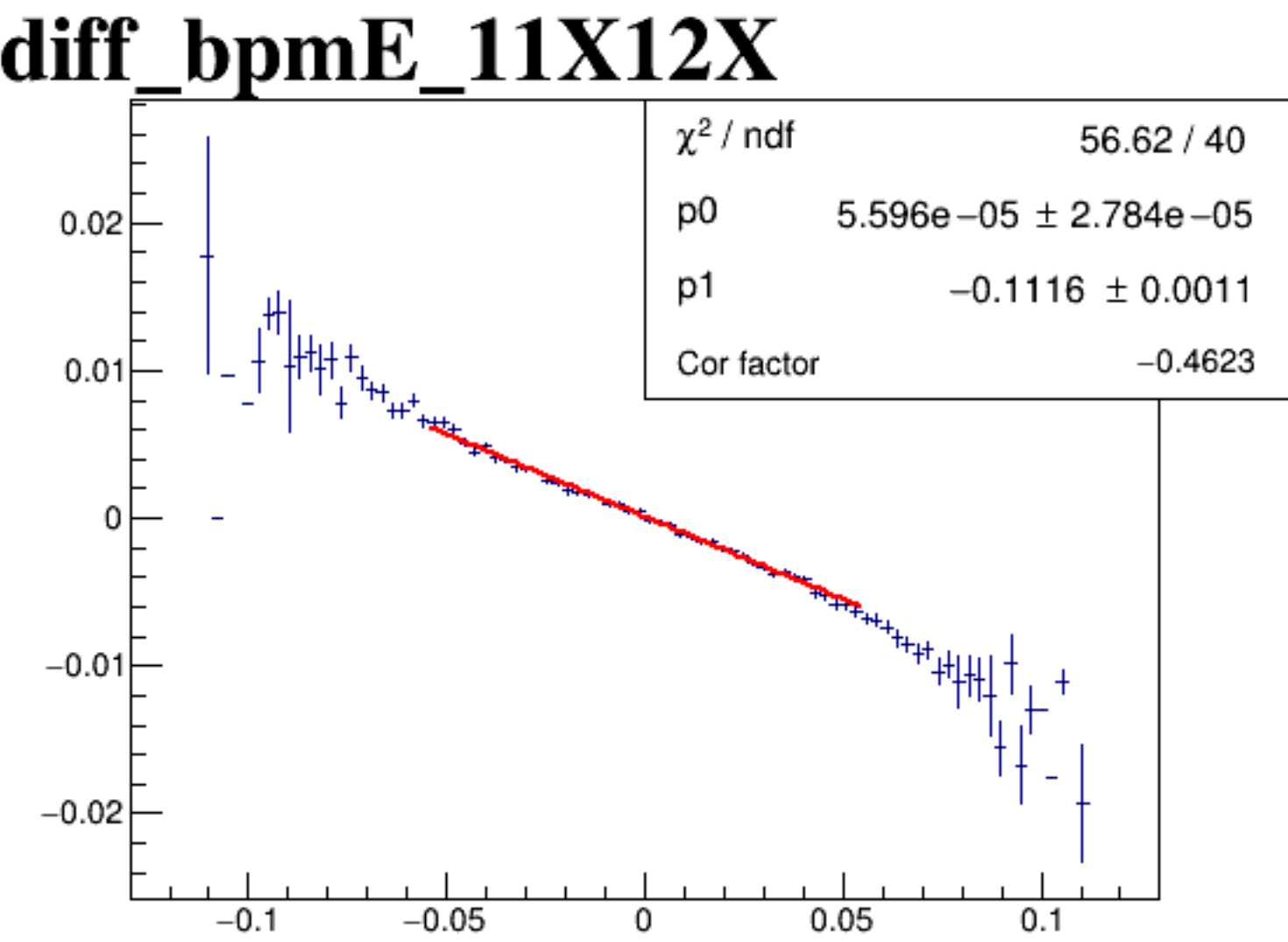
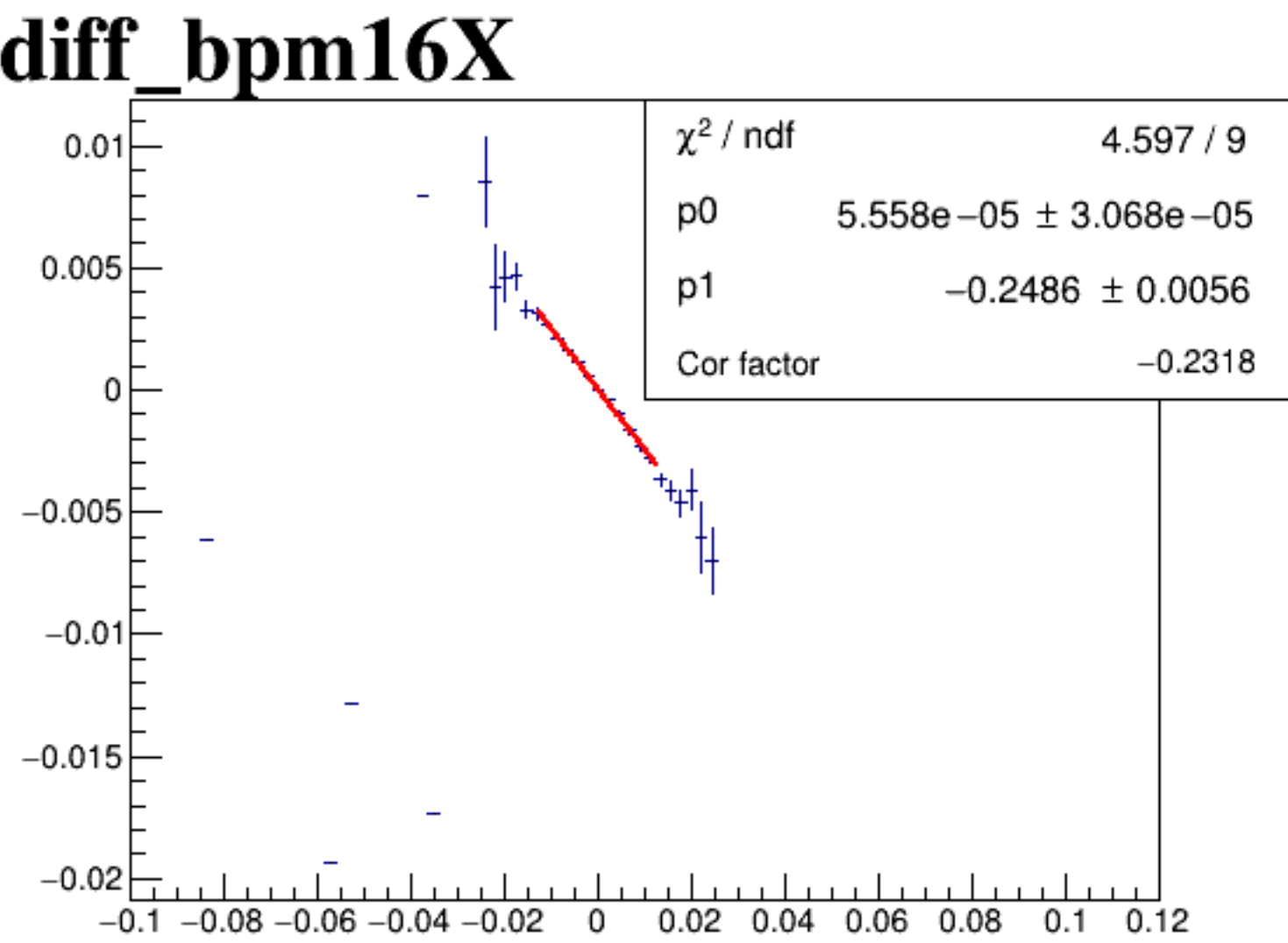
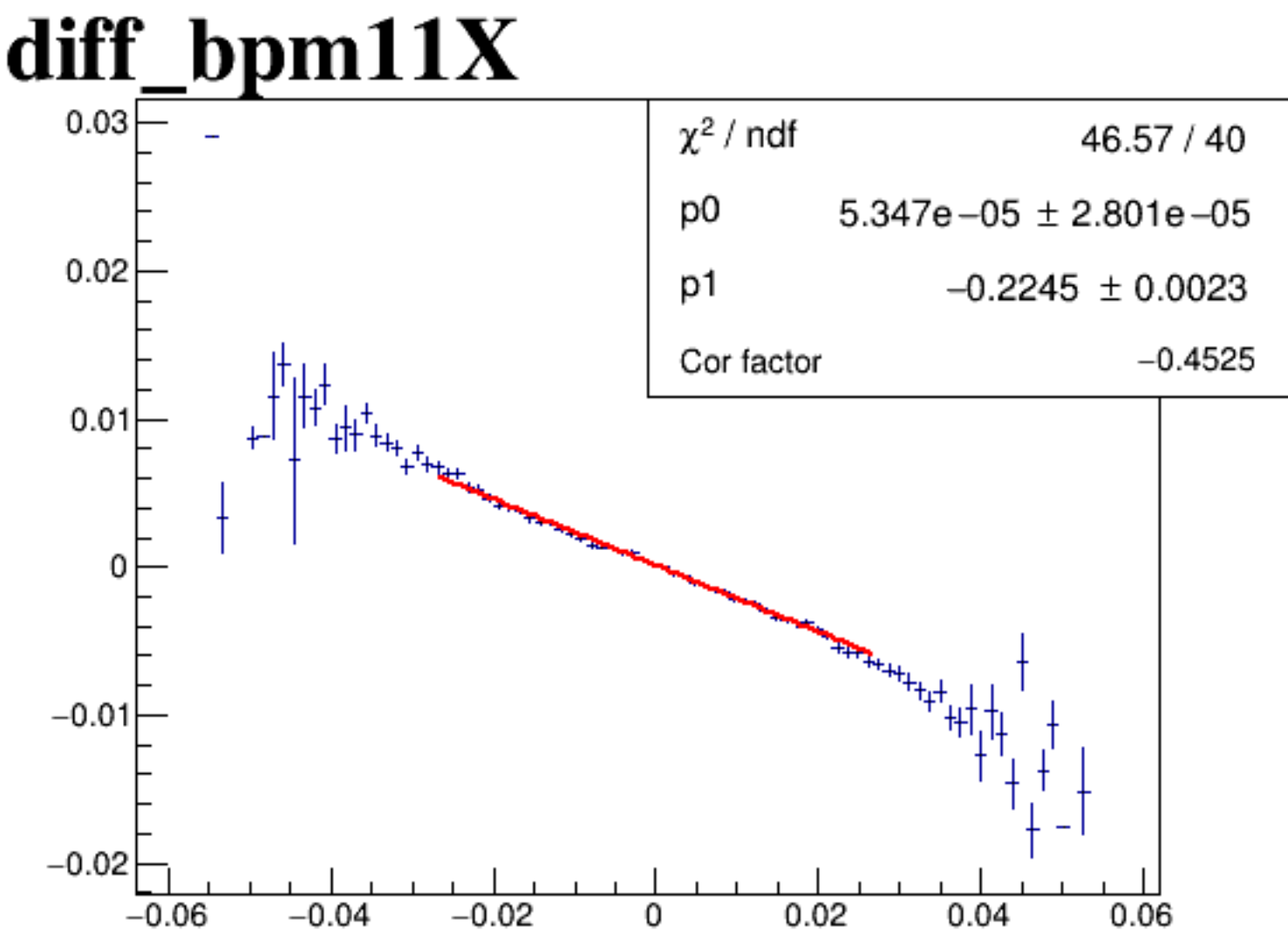
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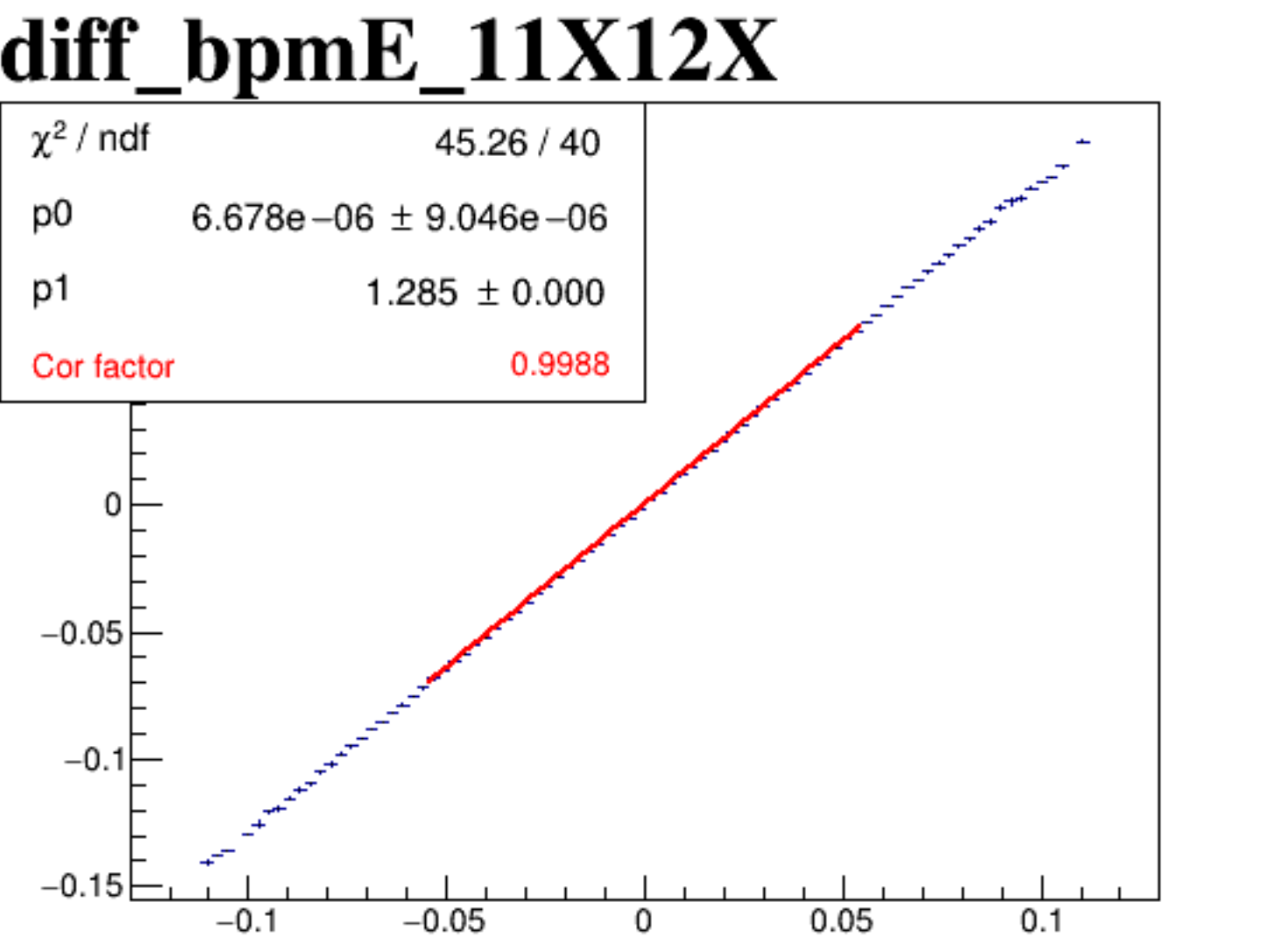
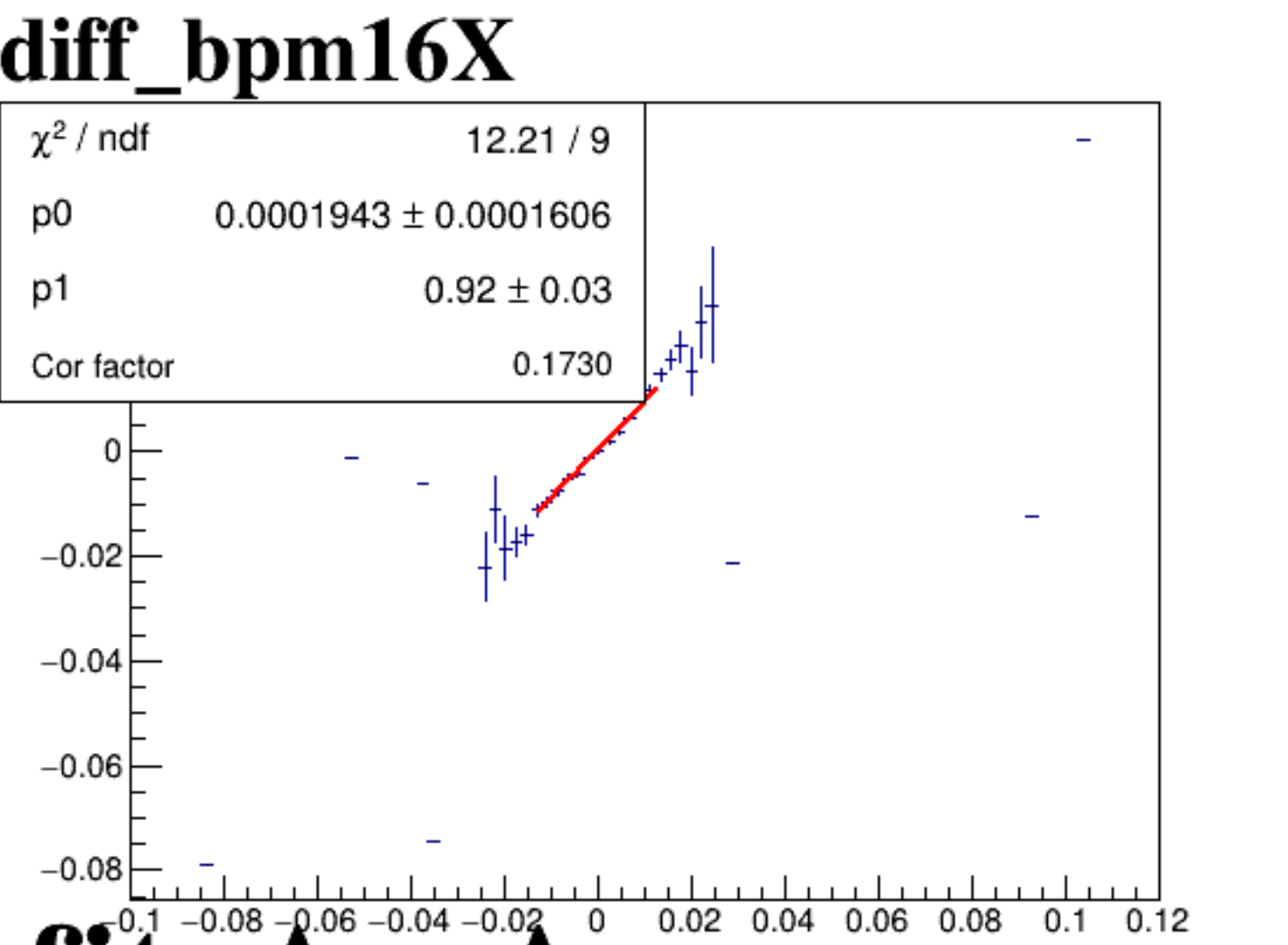
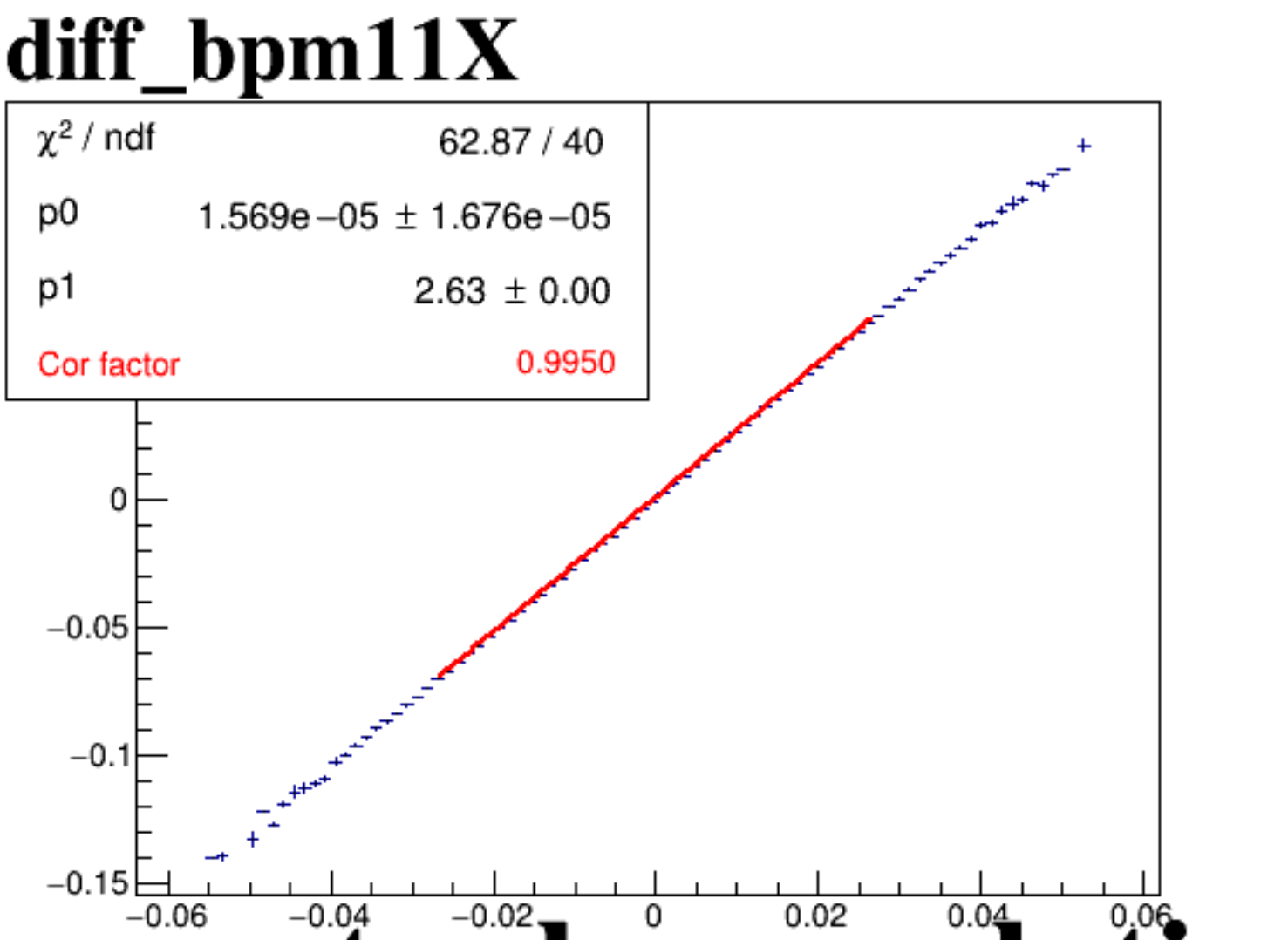
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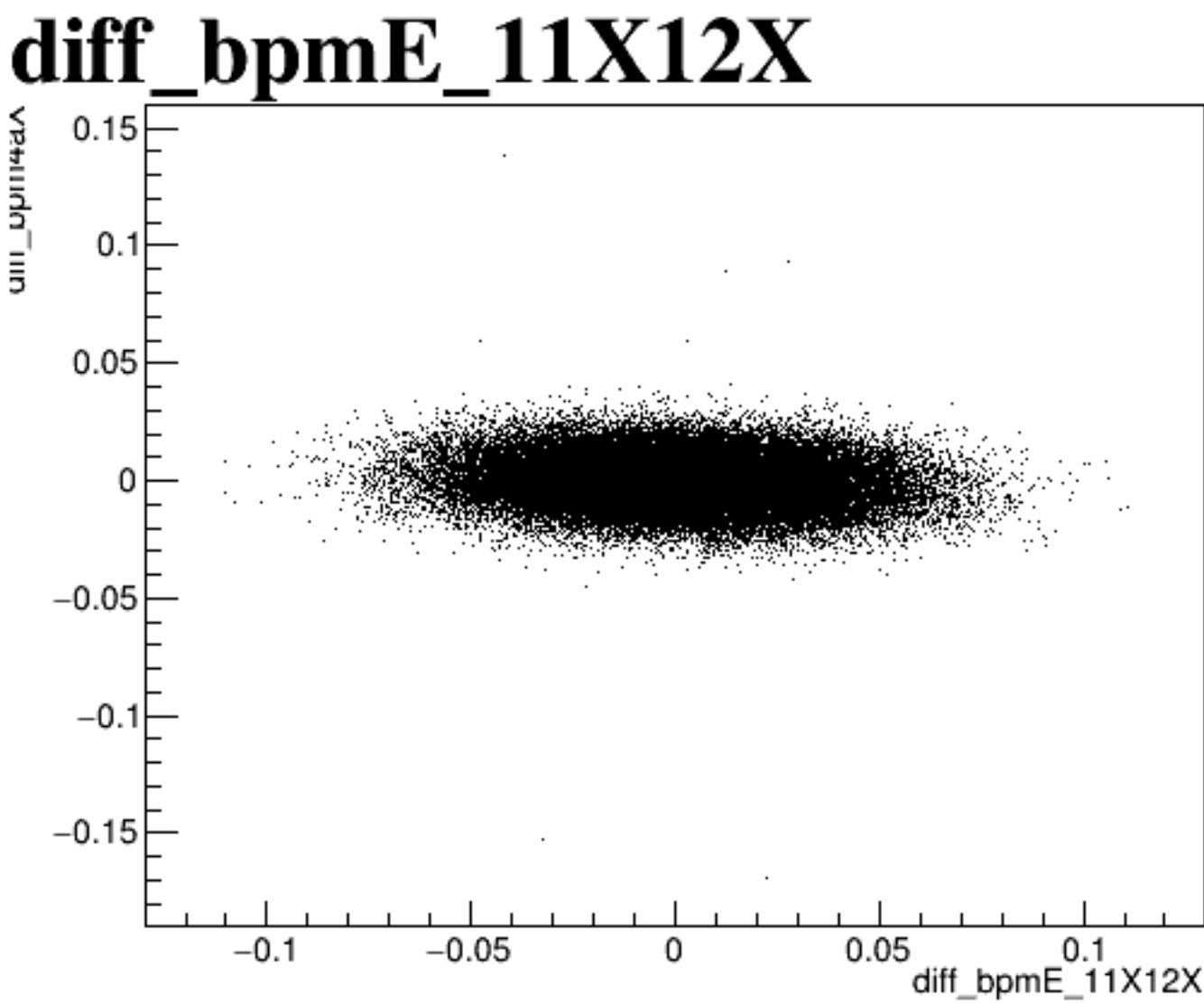
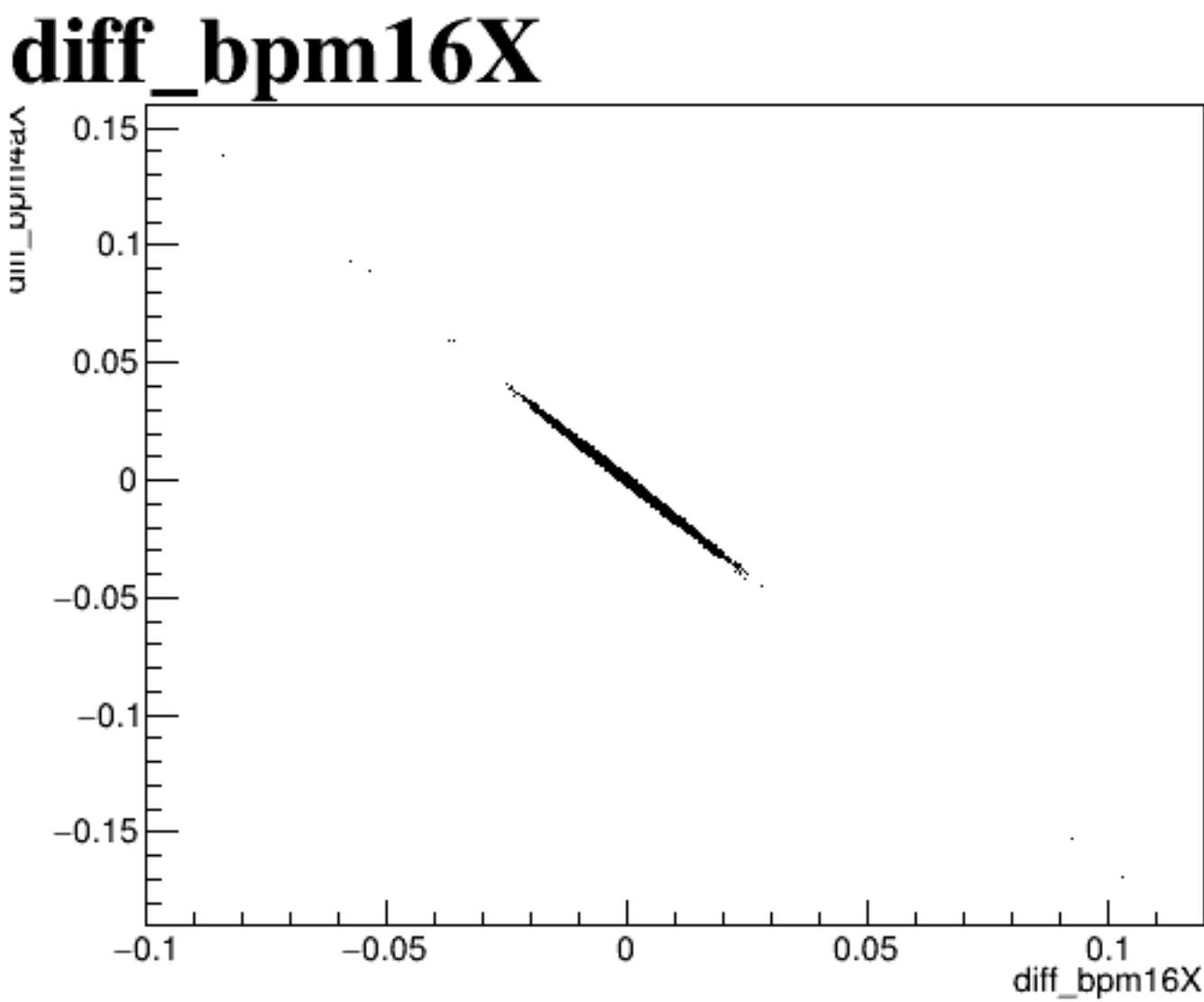
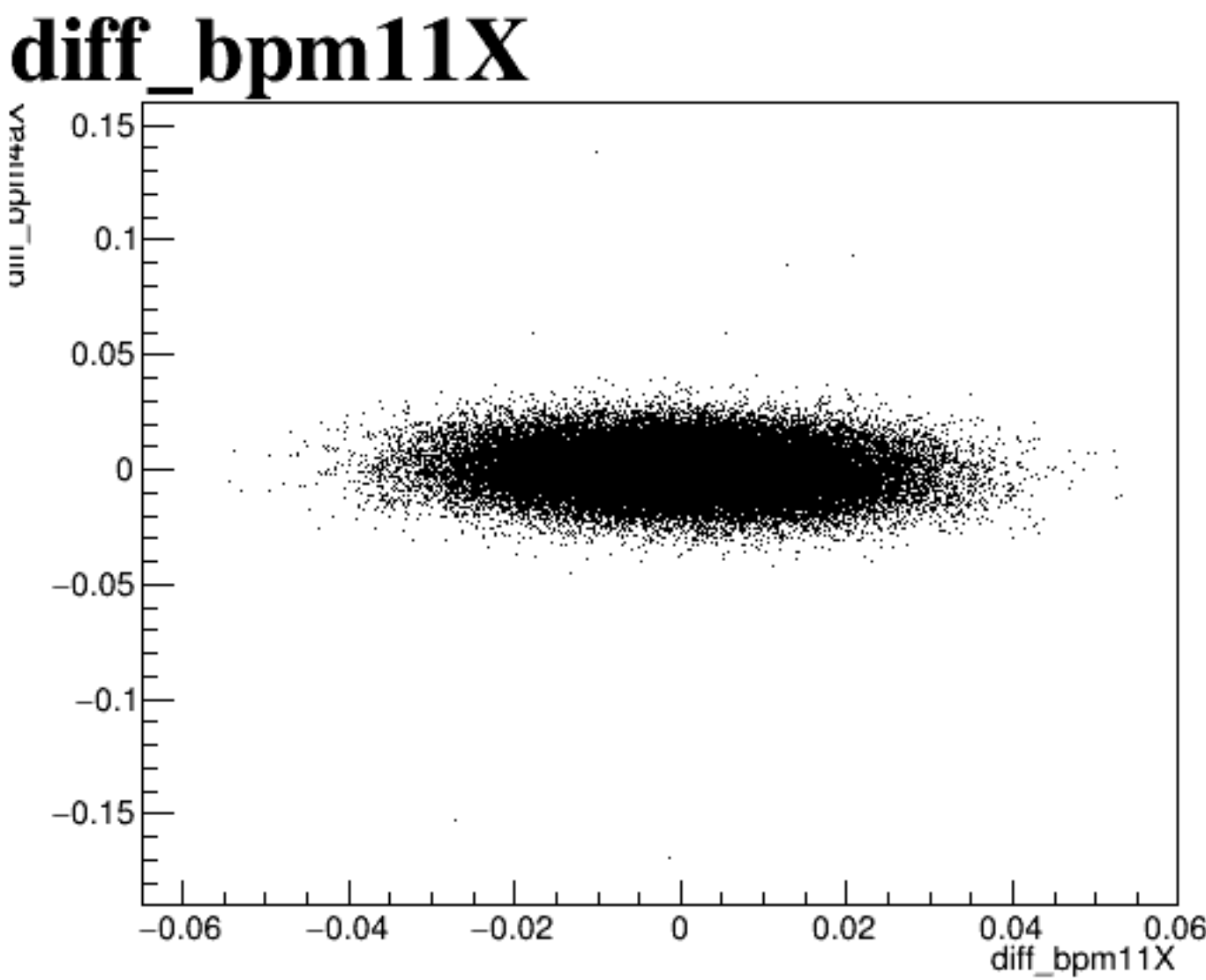
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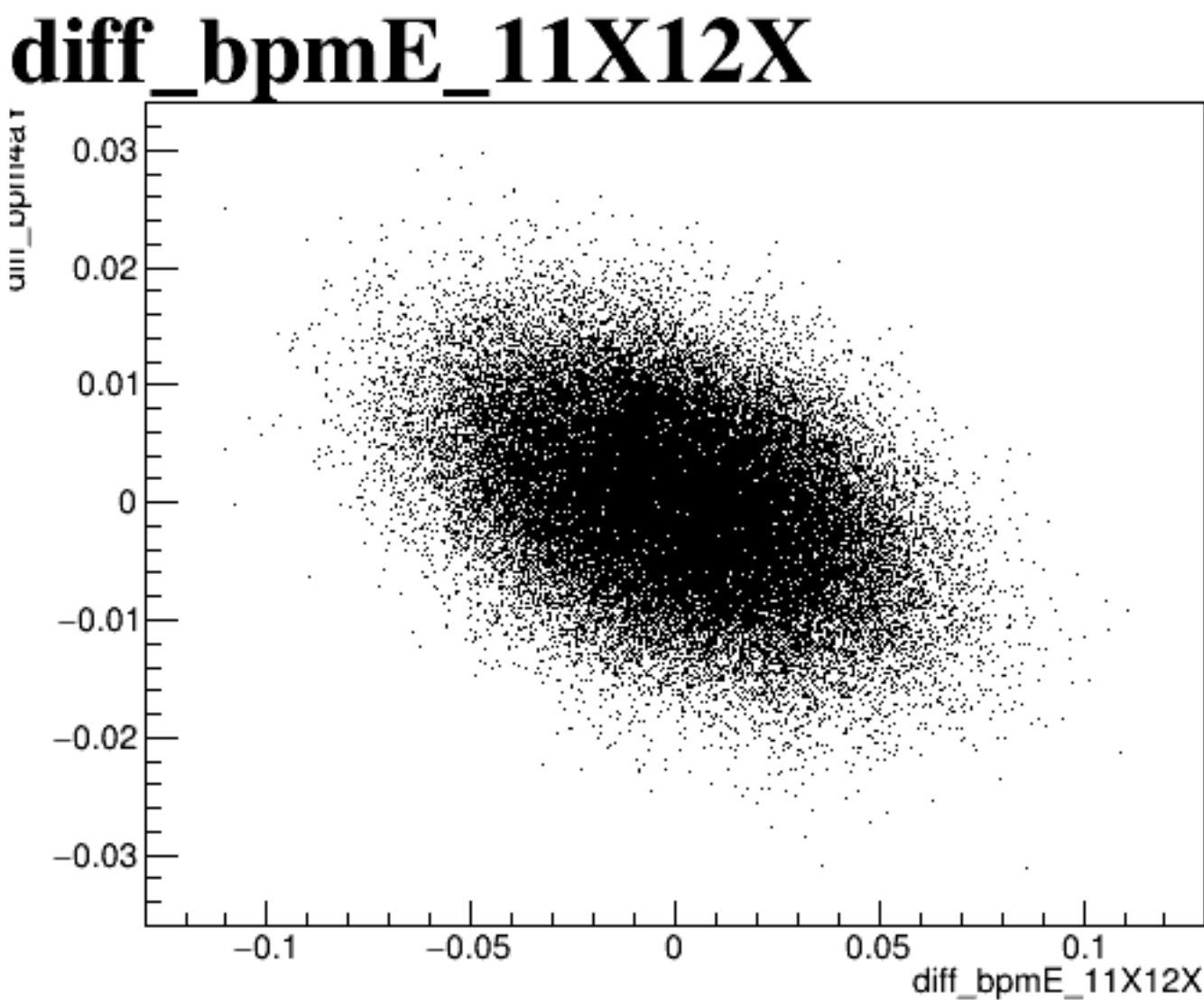
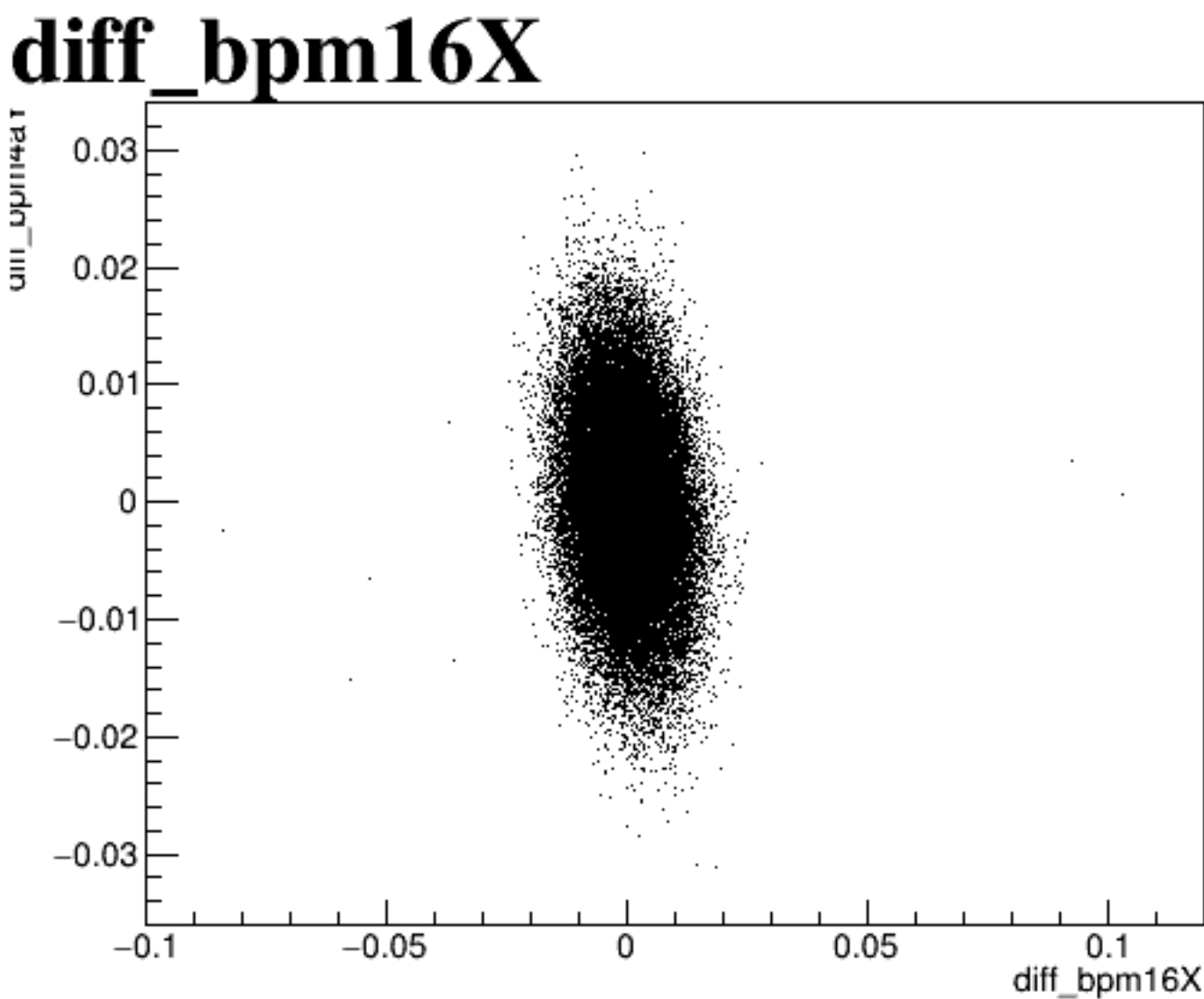
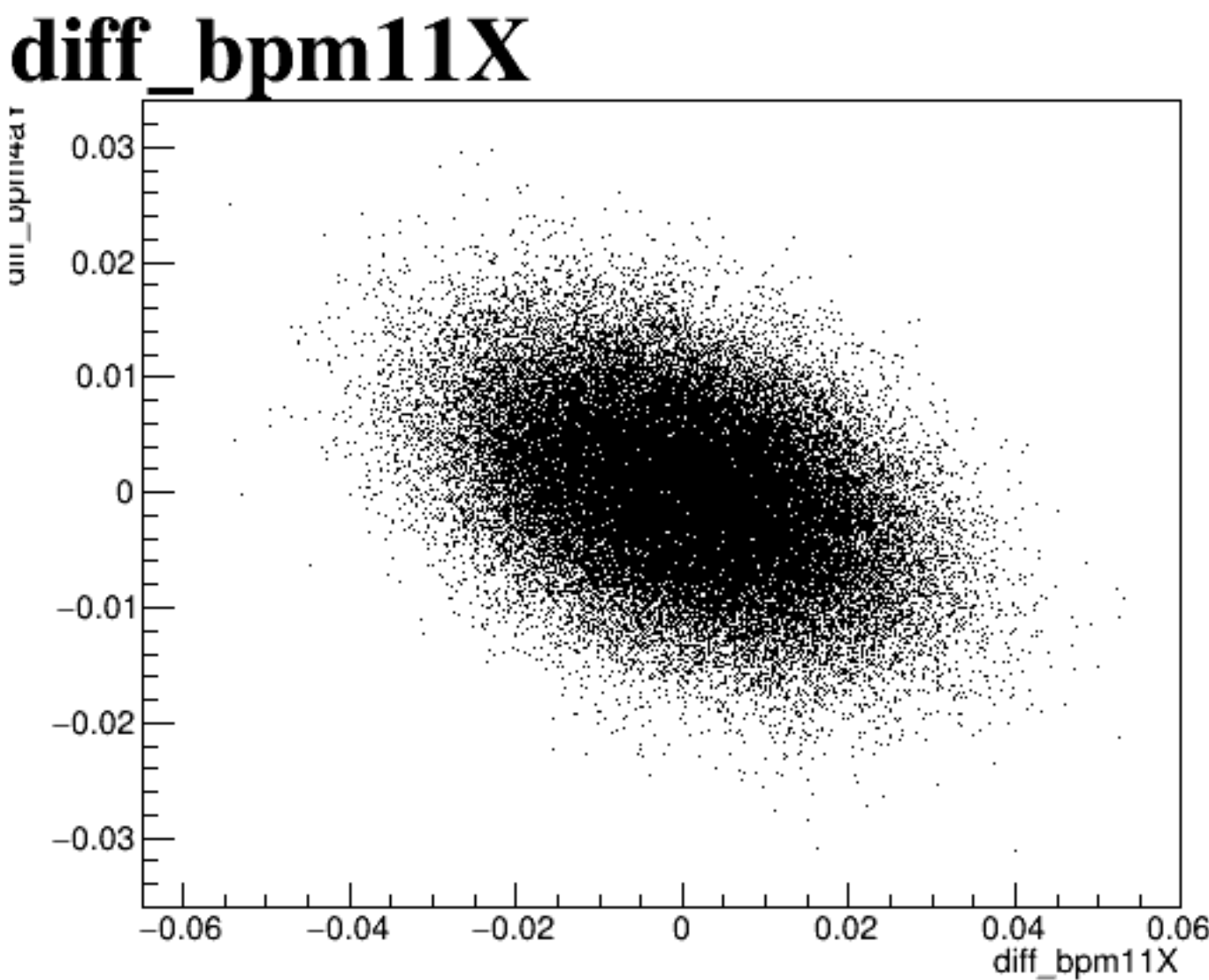
diff_bpm12X



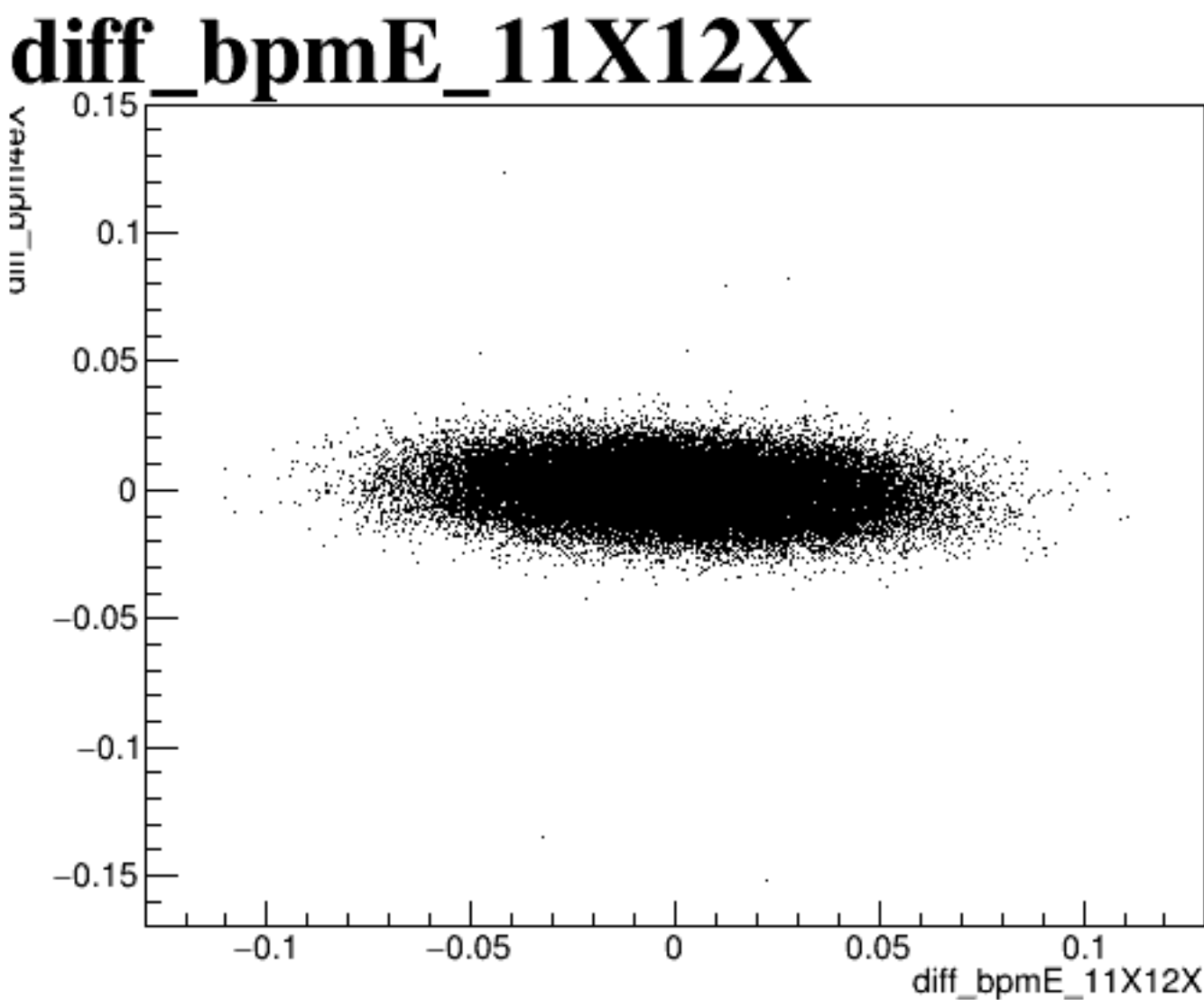
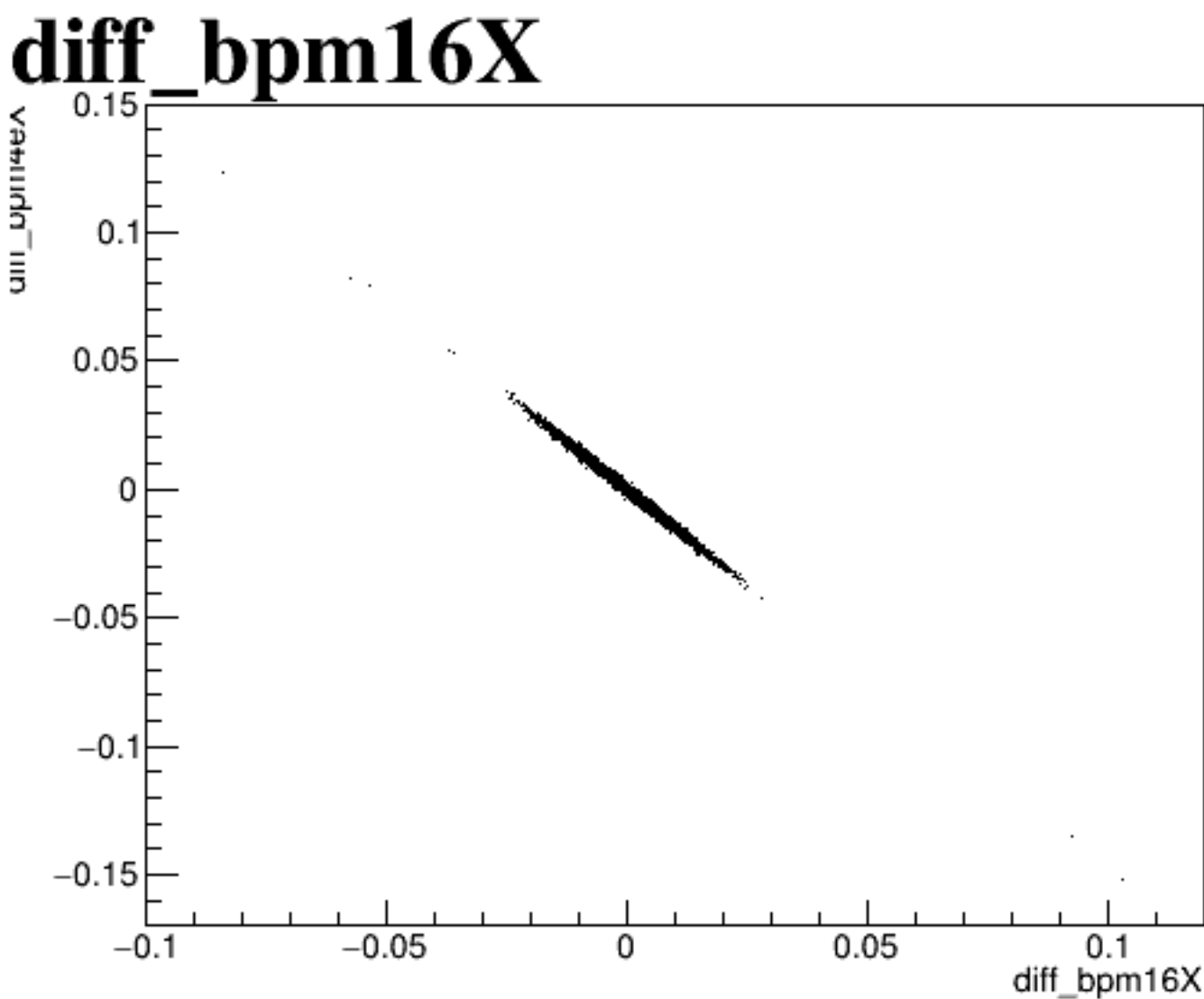
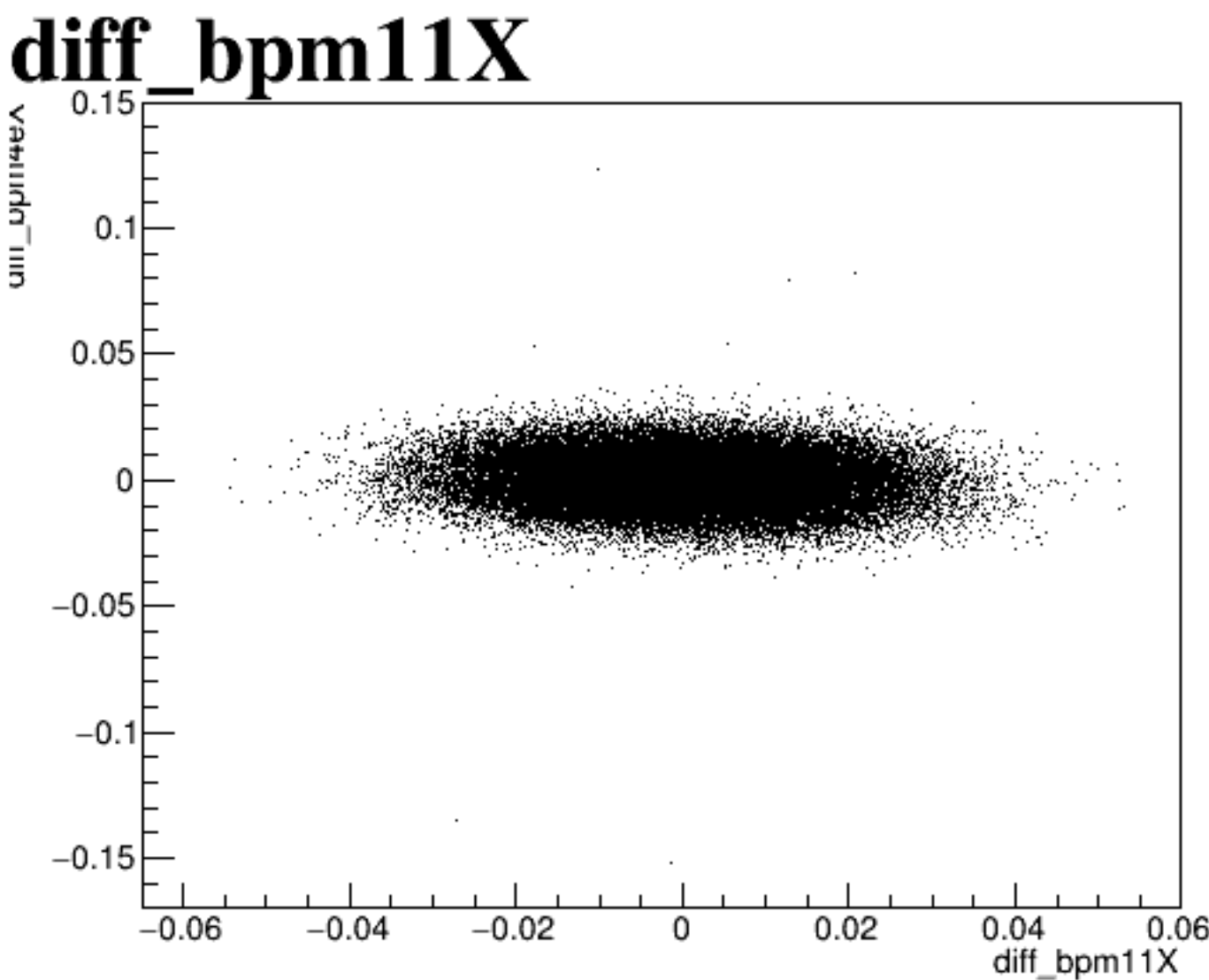
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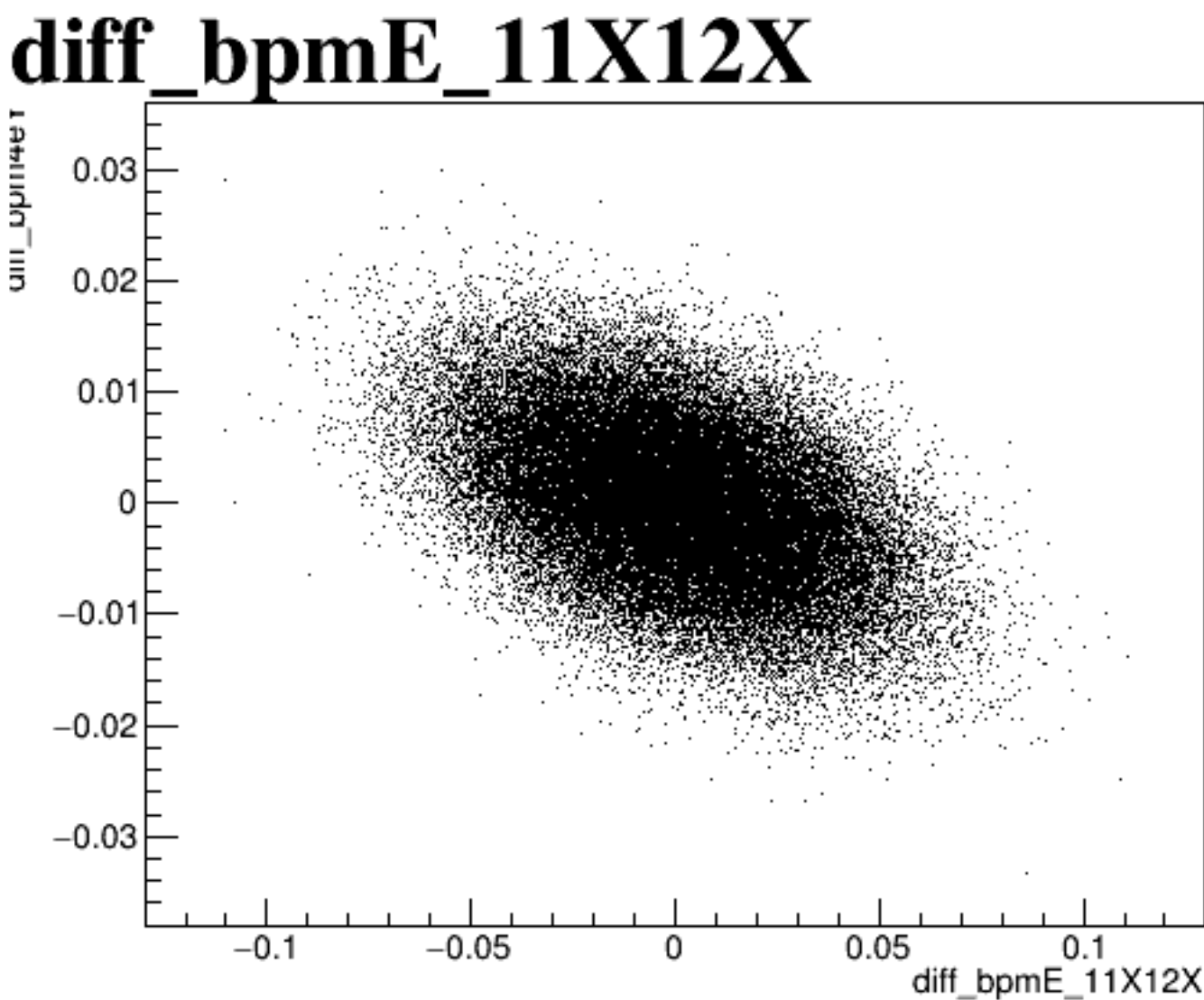
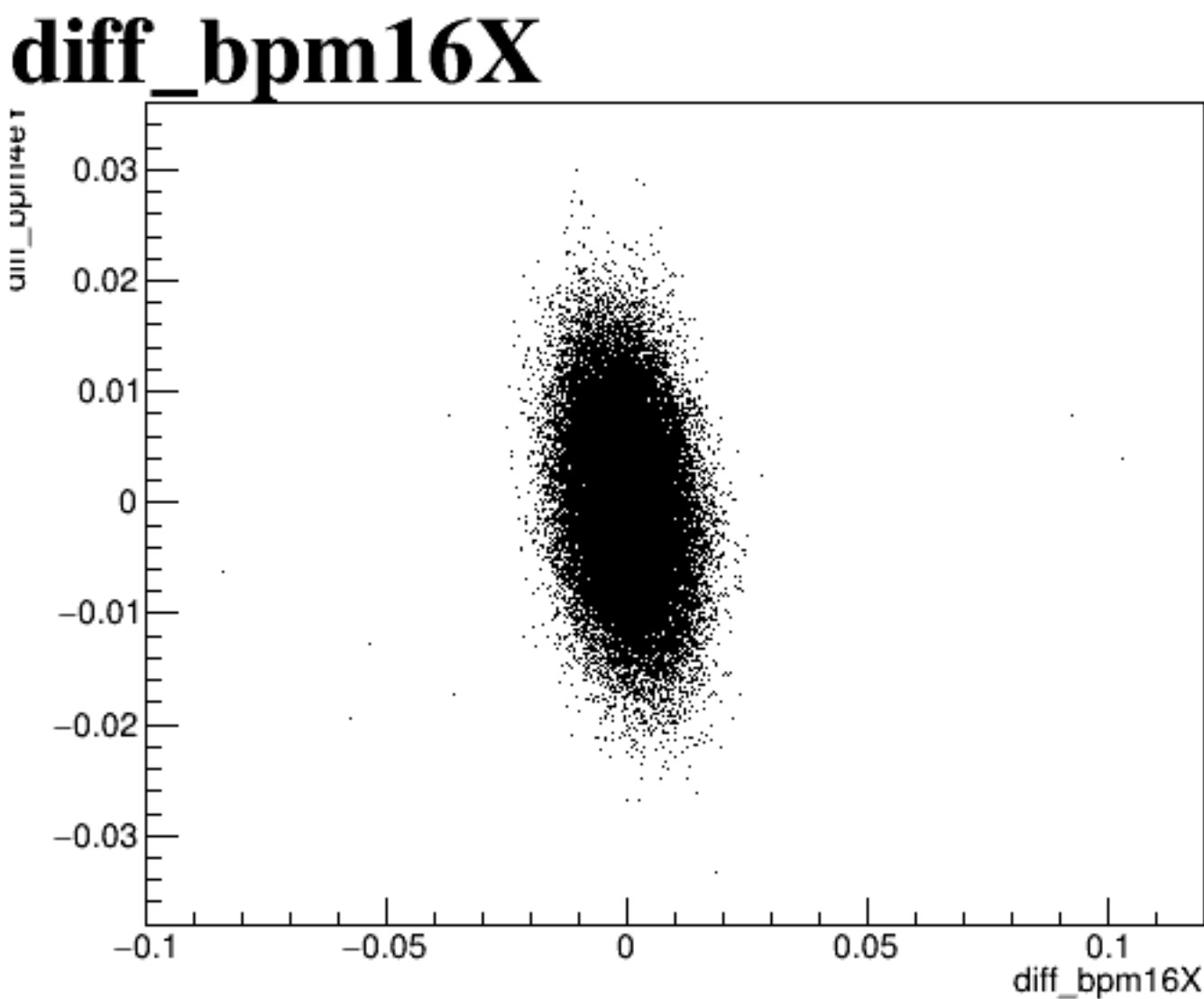
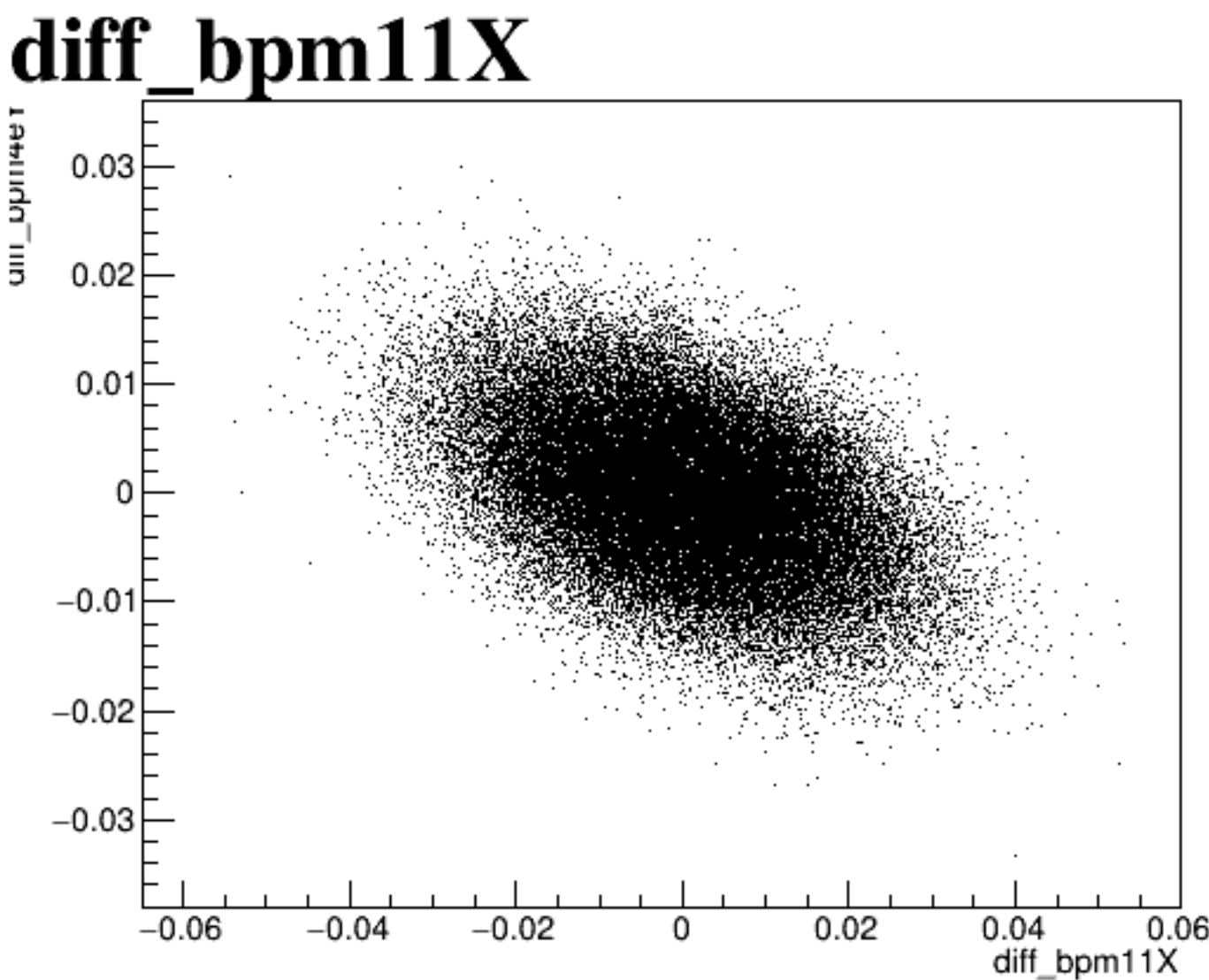
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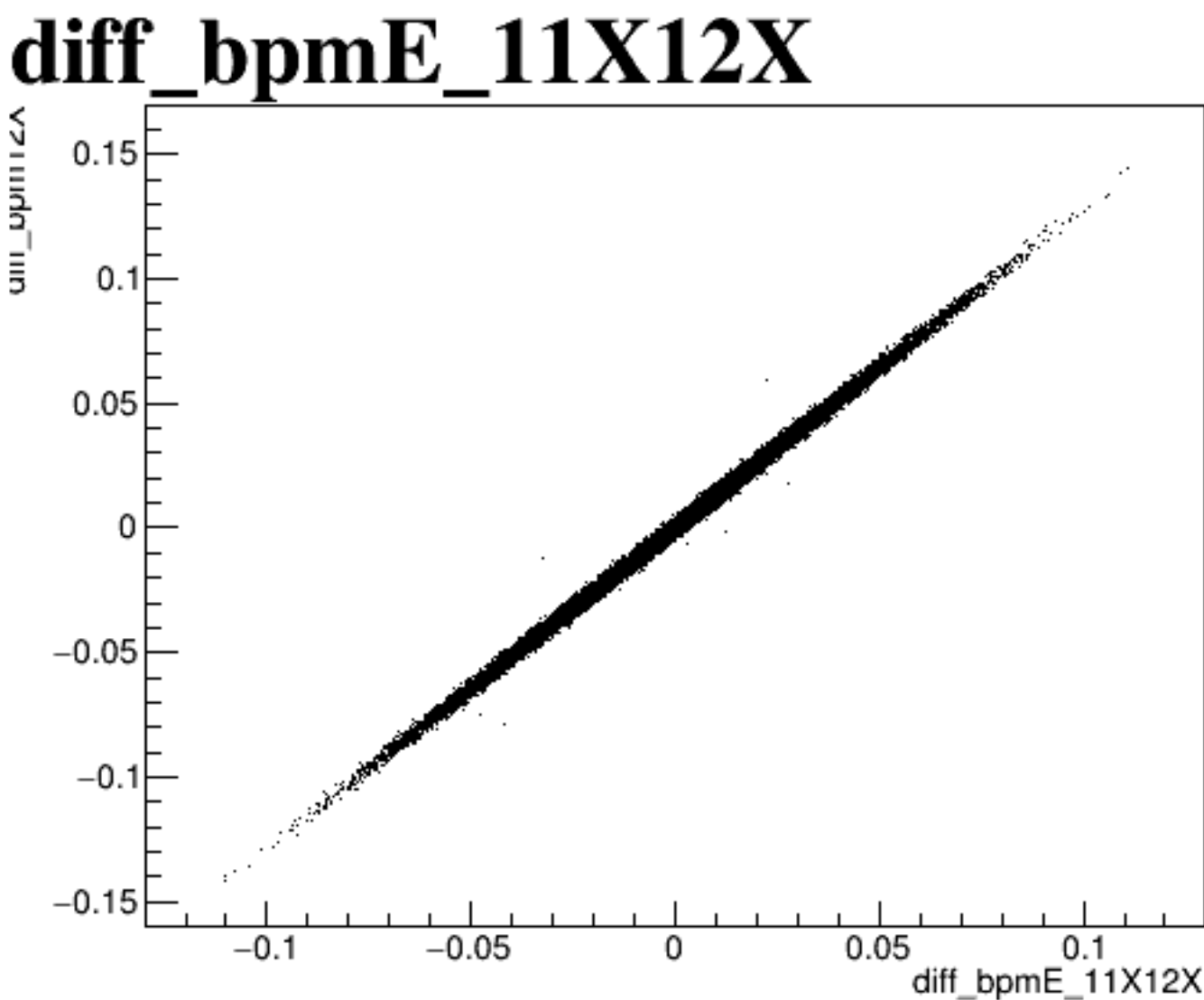
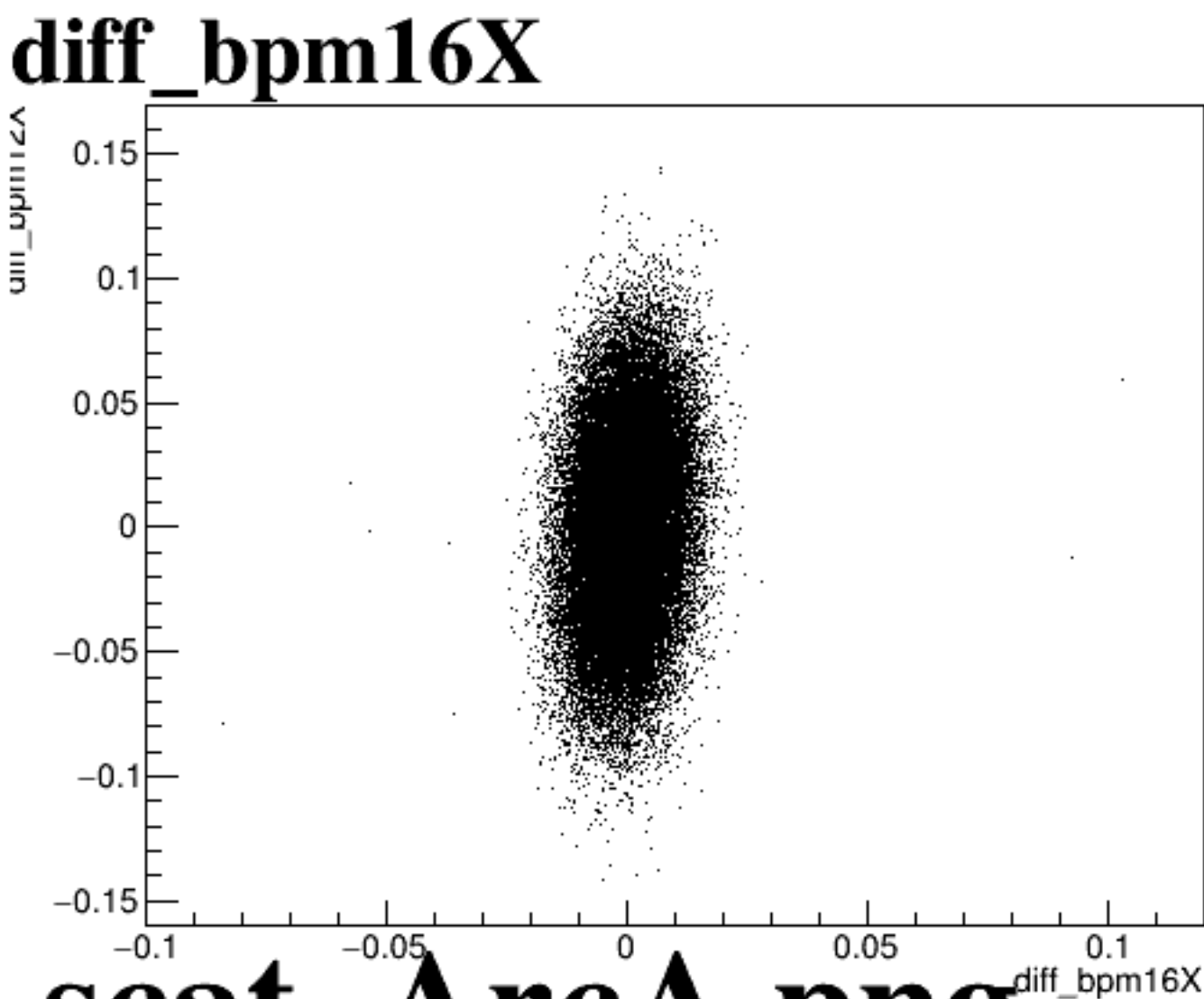
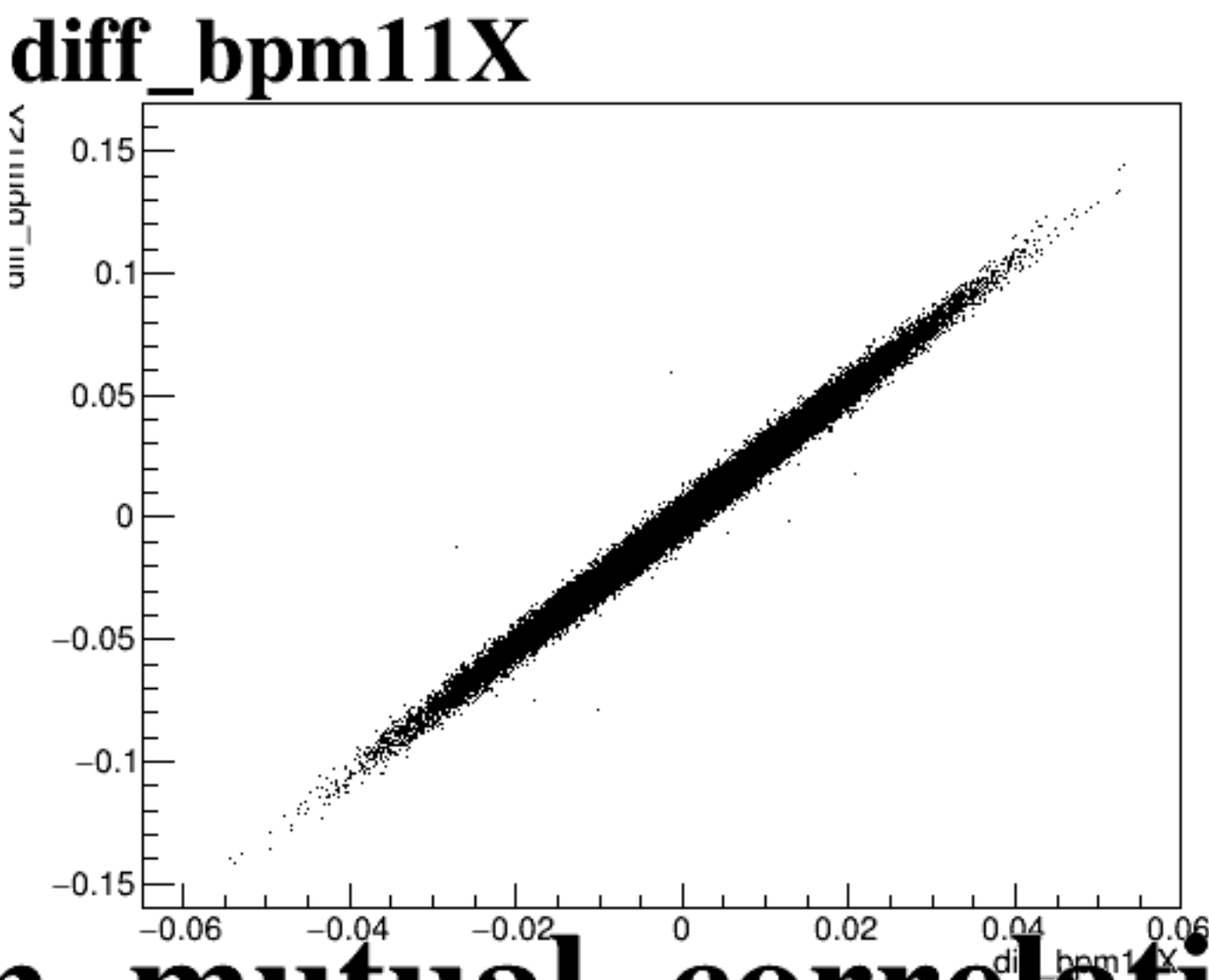
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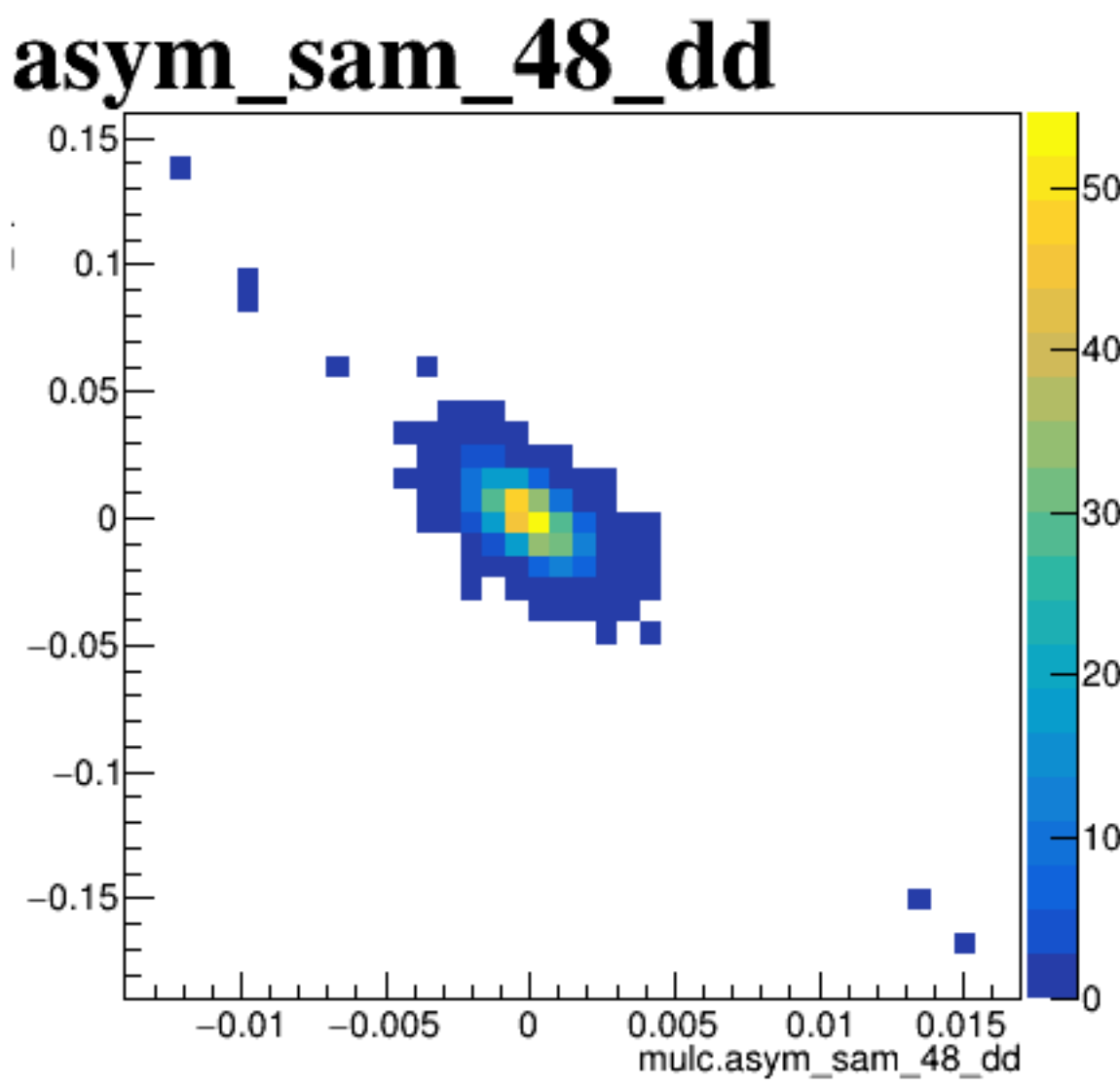
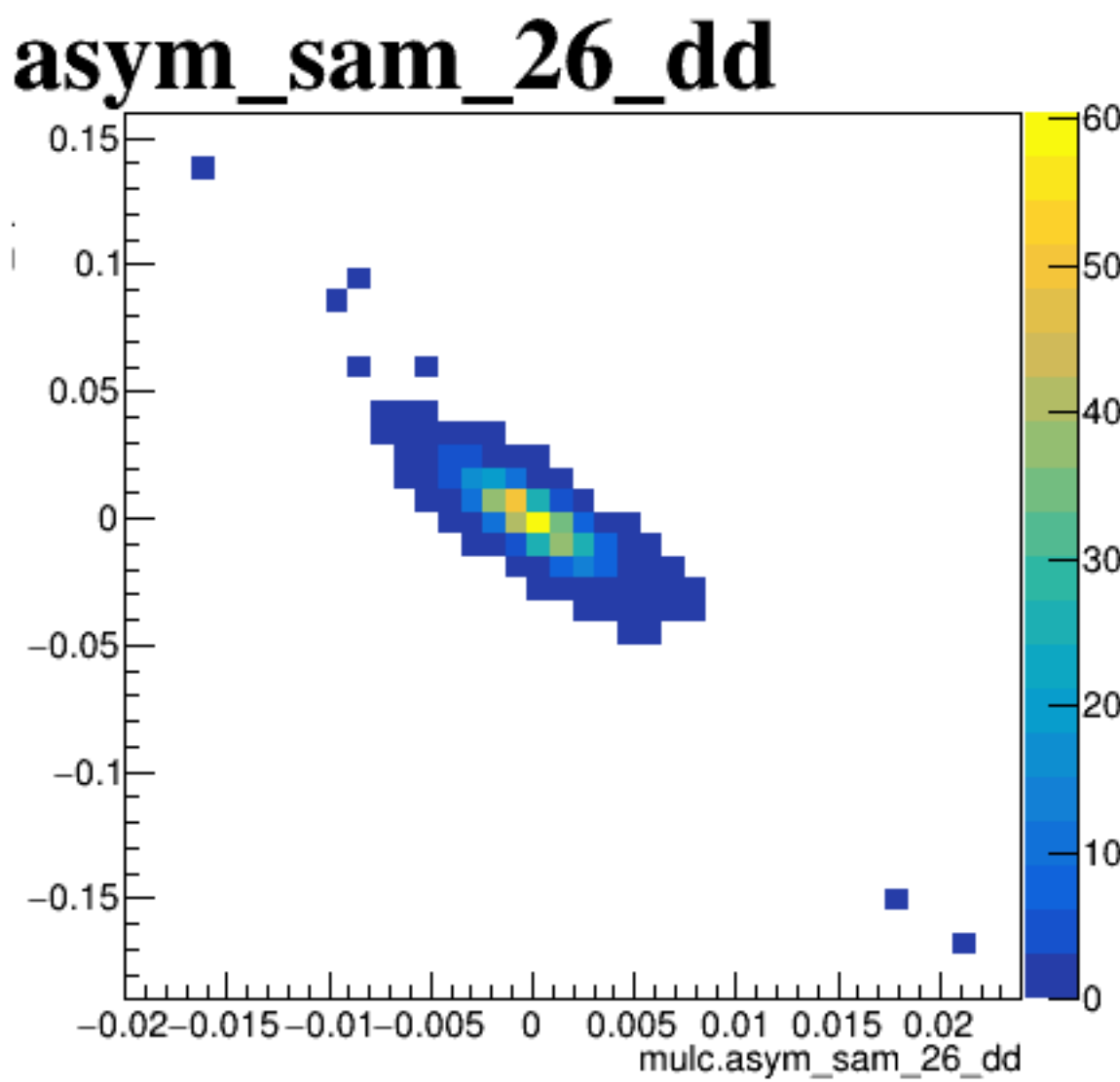
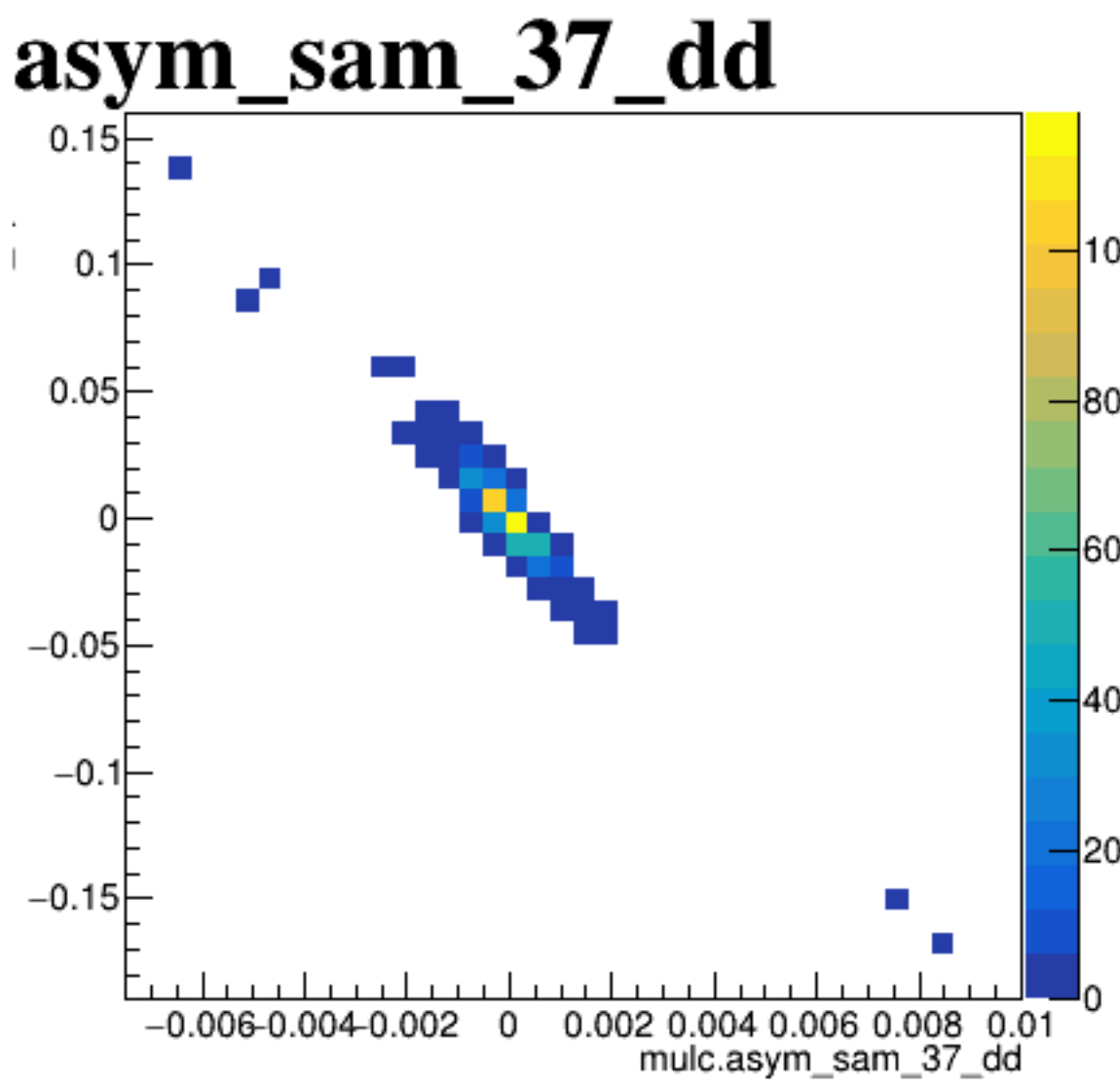
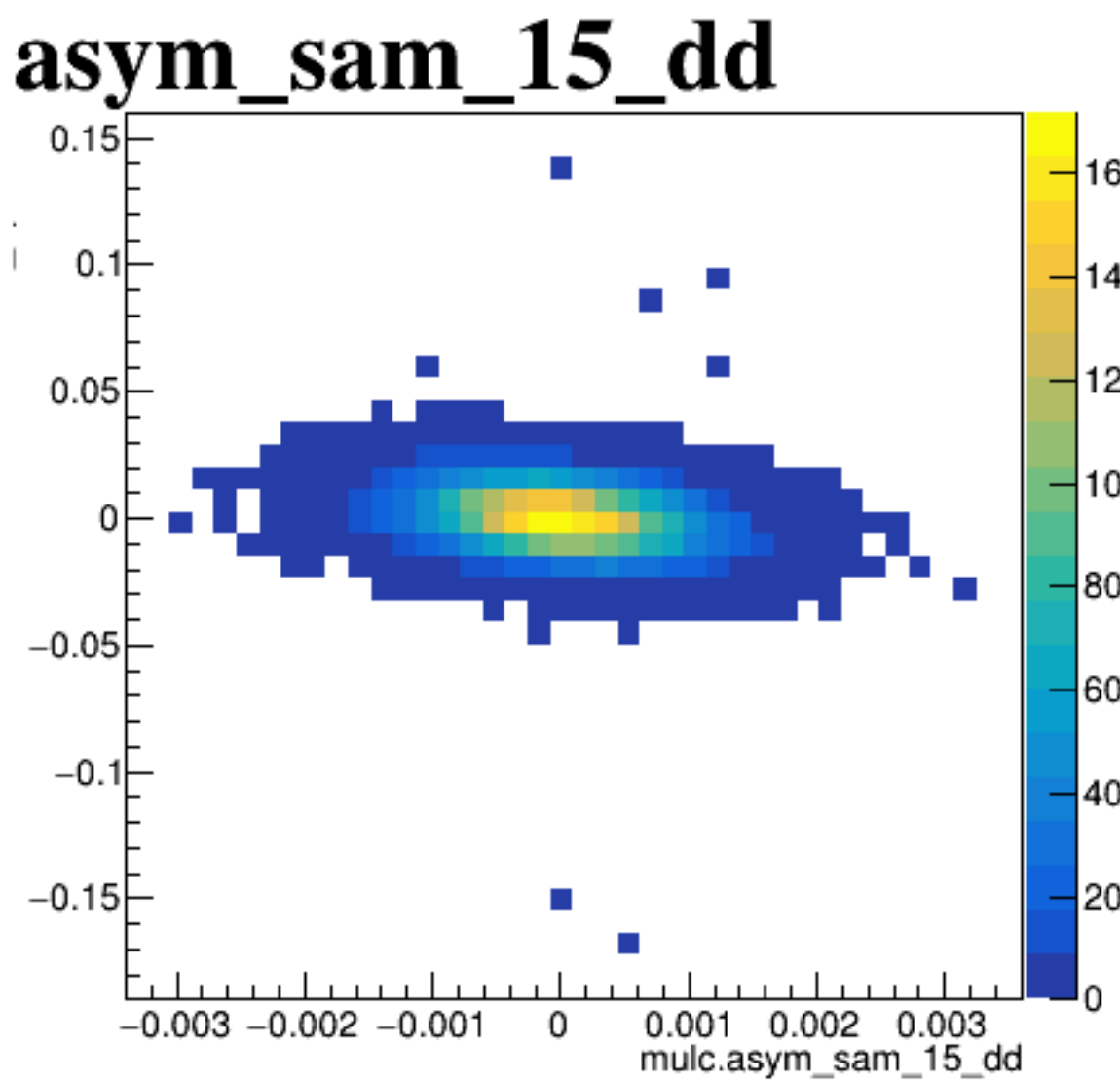
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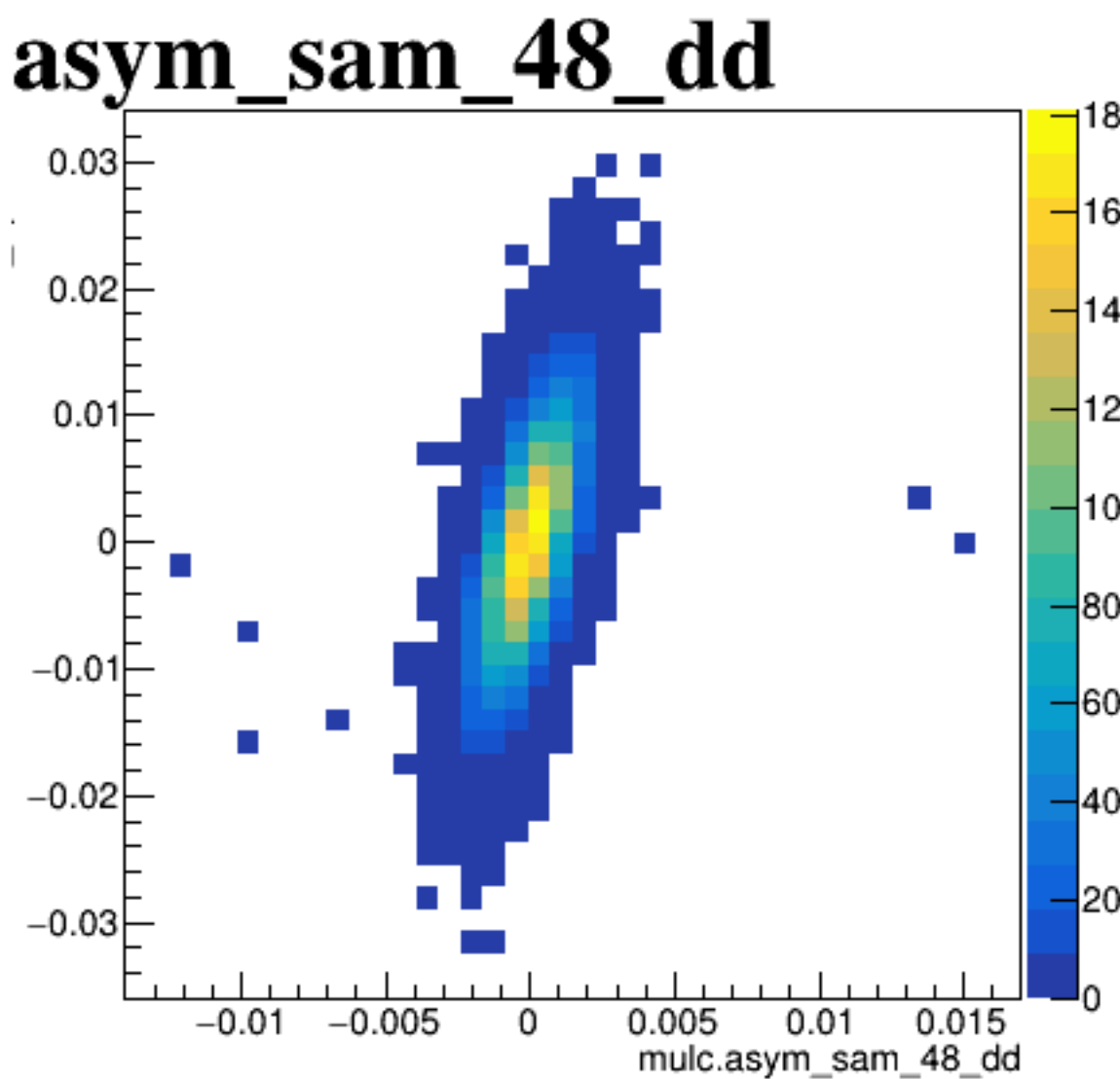
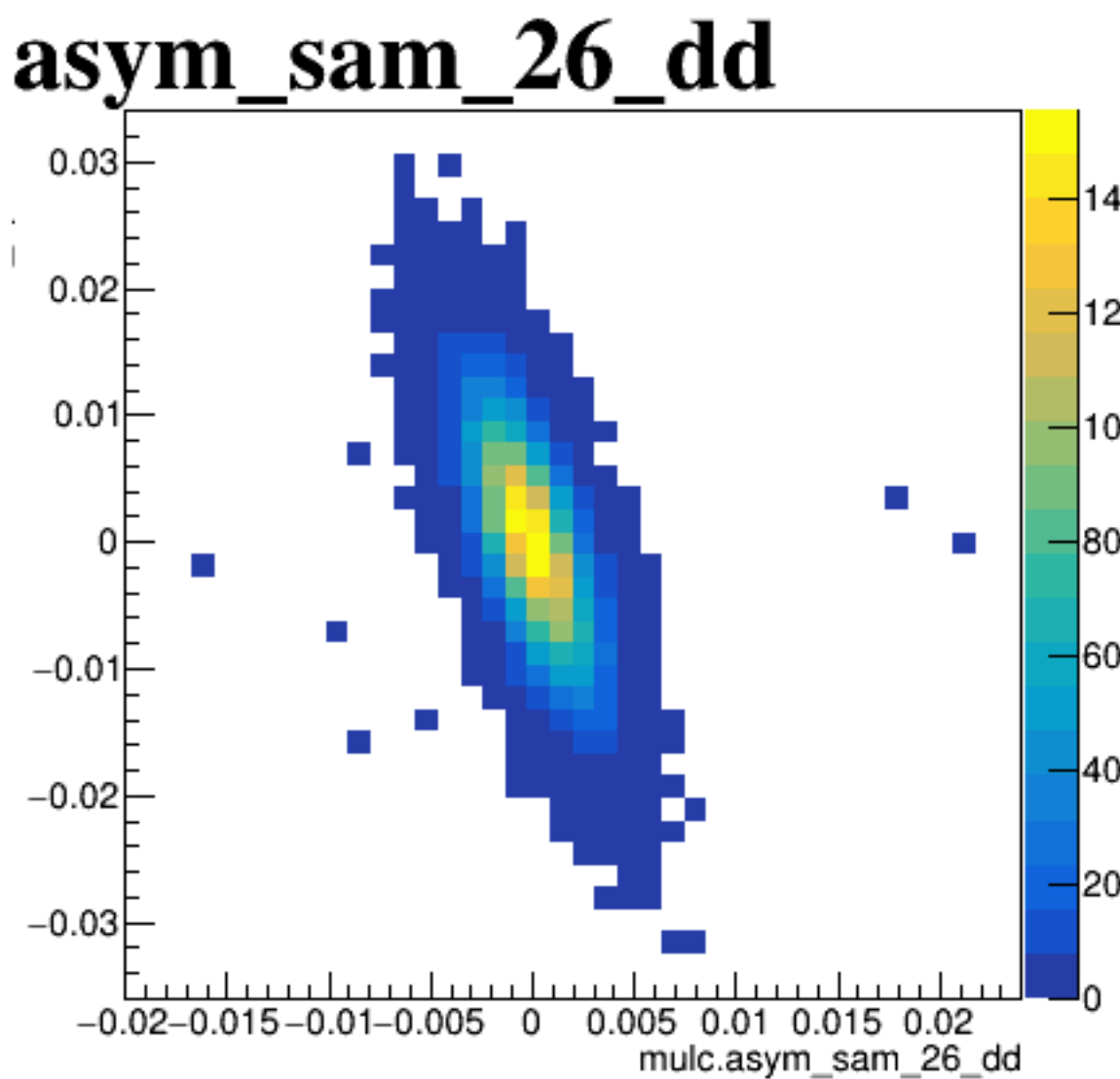
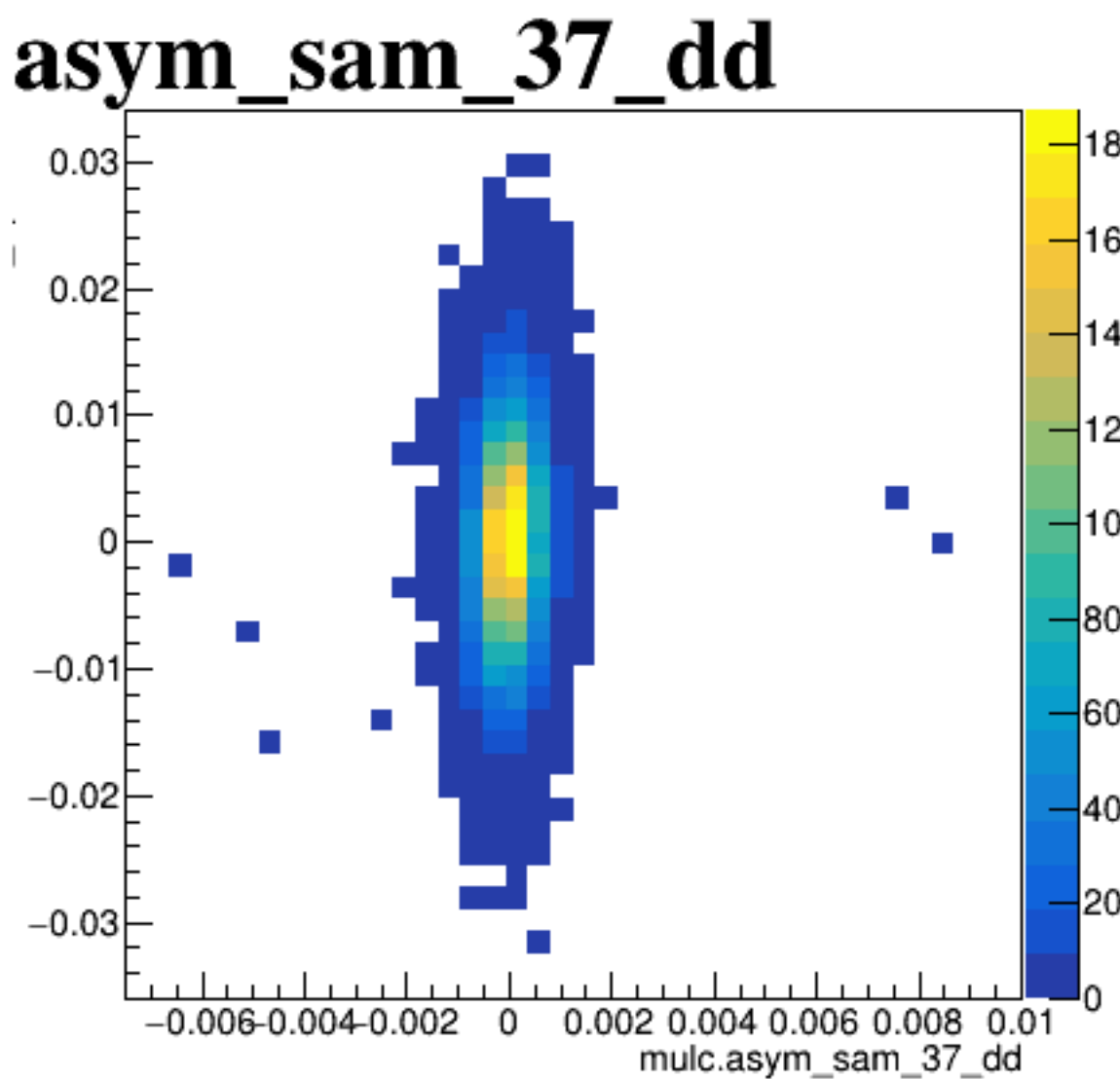
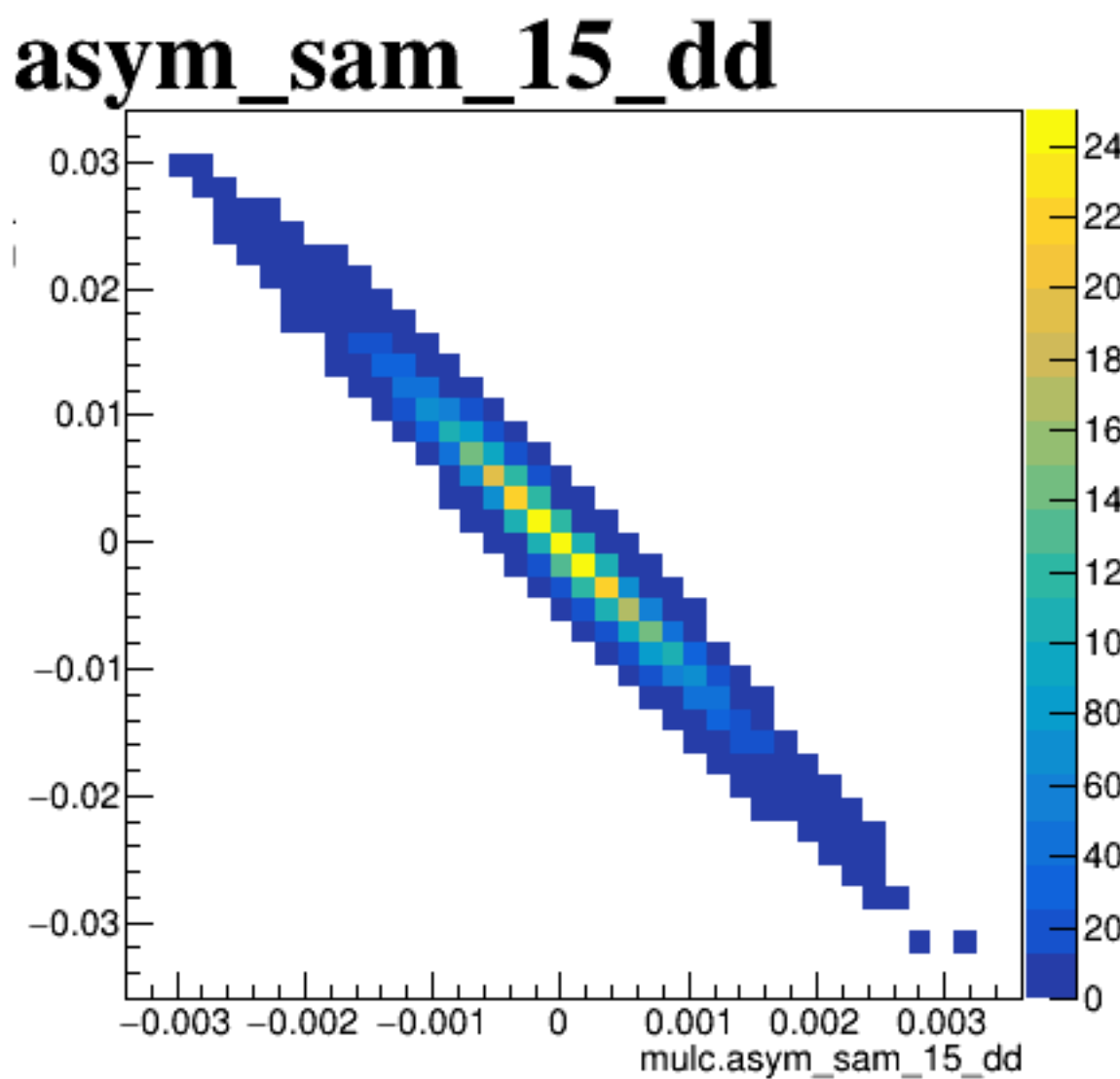
diff_bpm12X



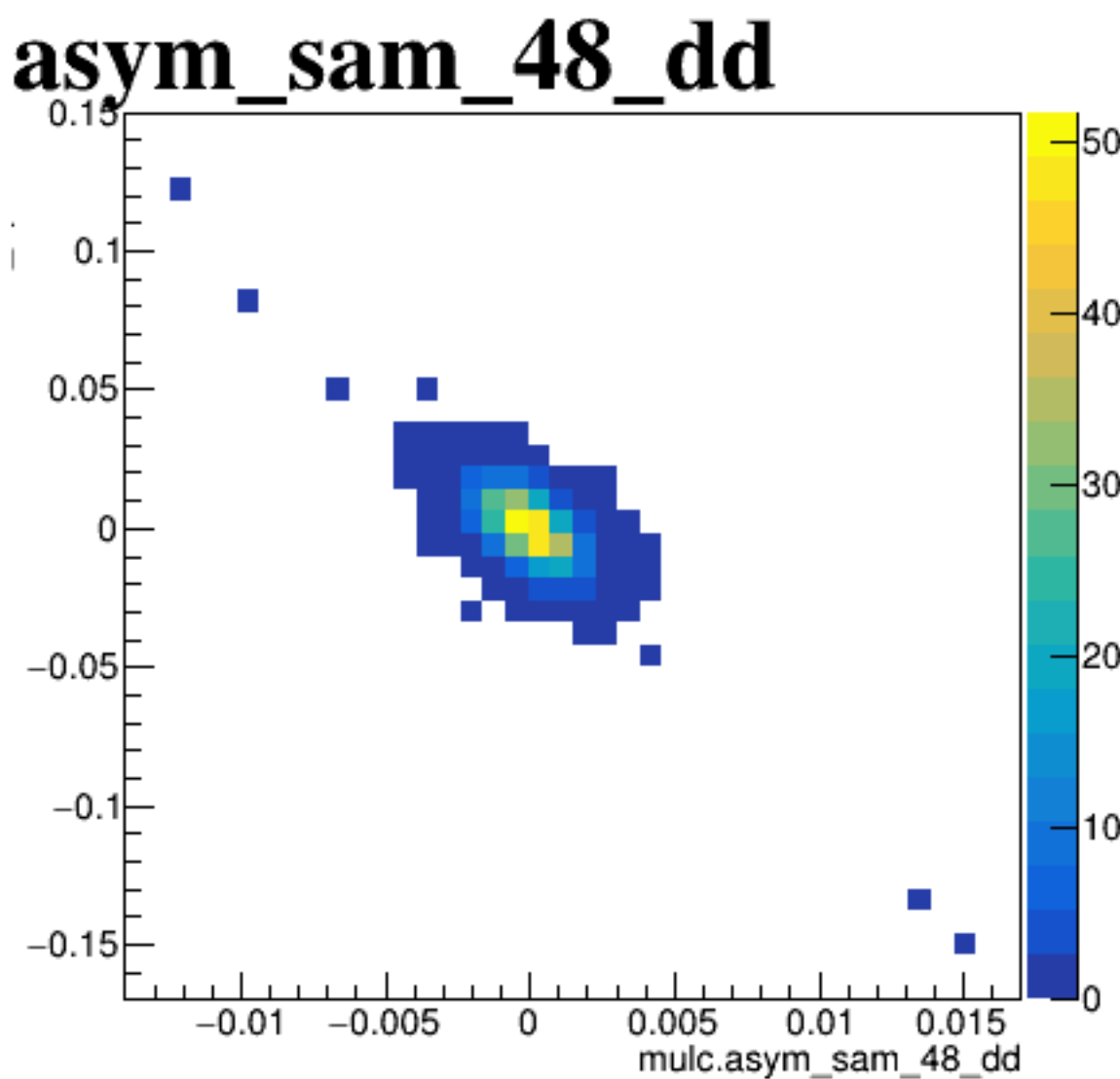
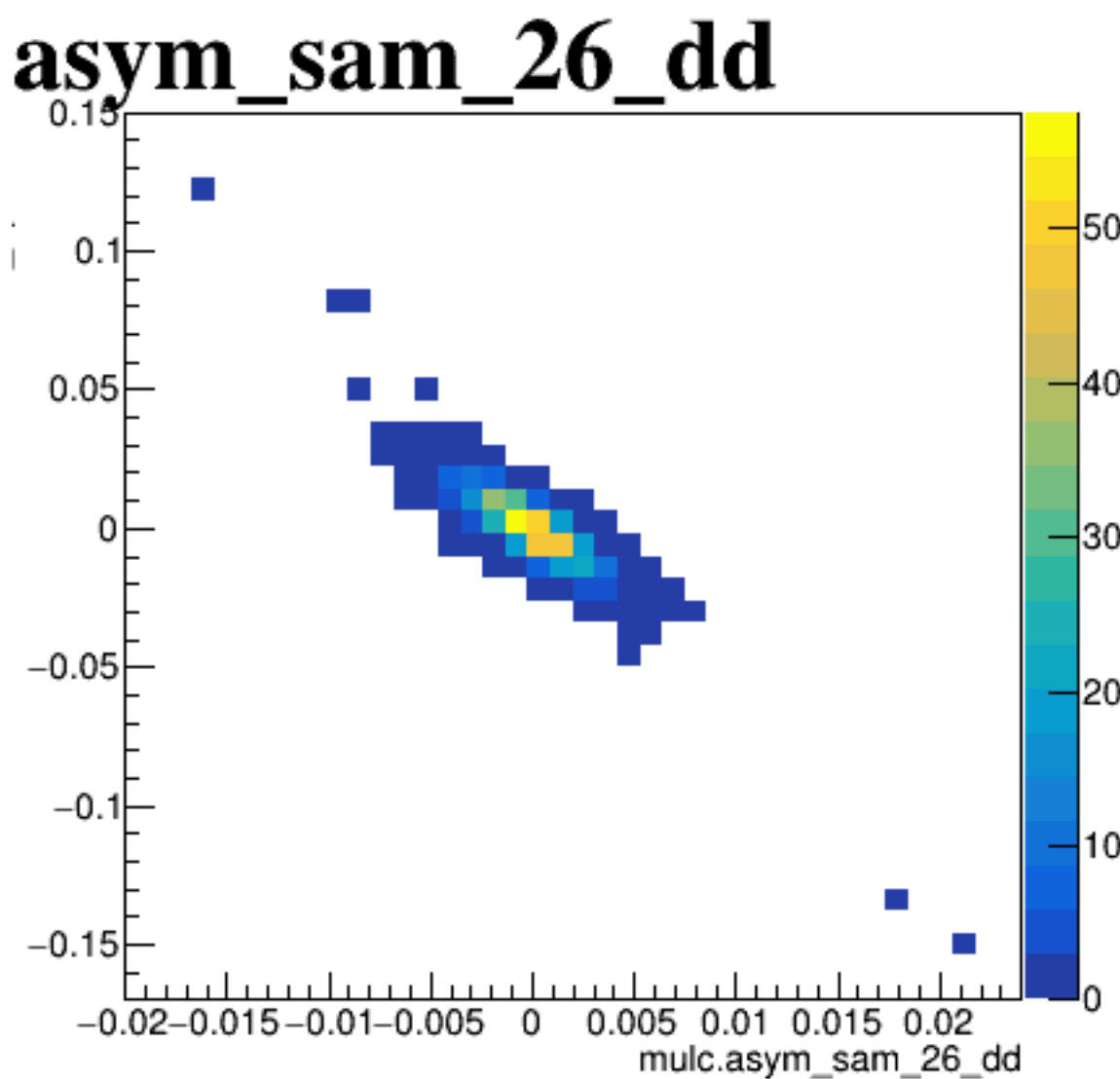
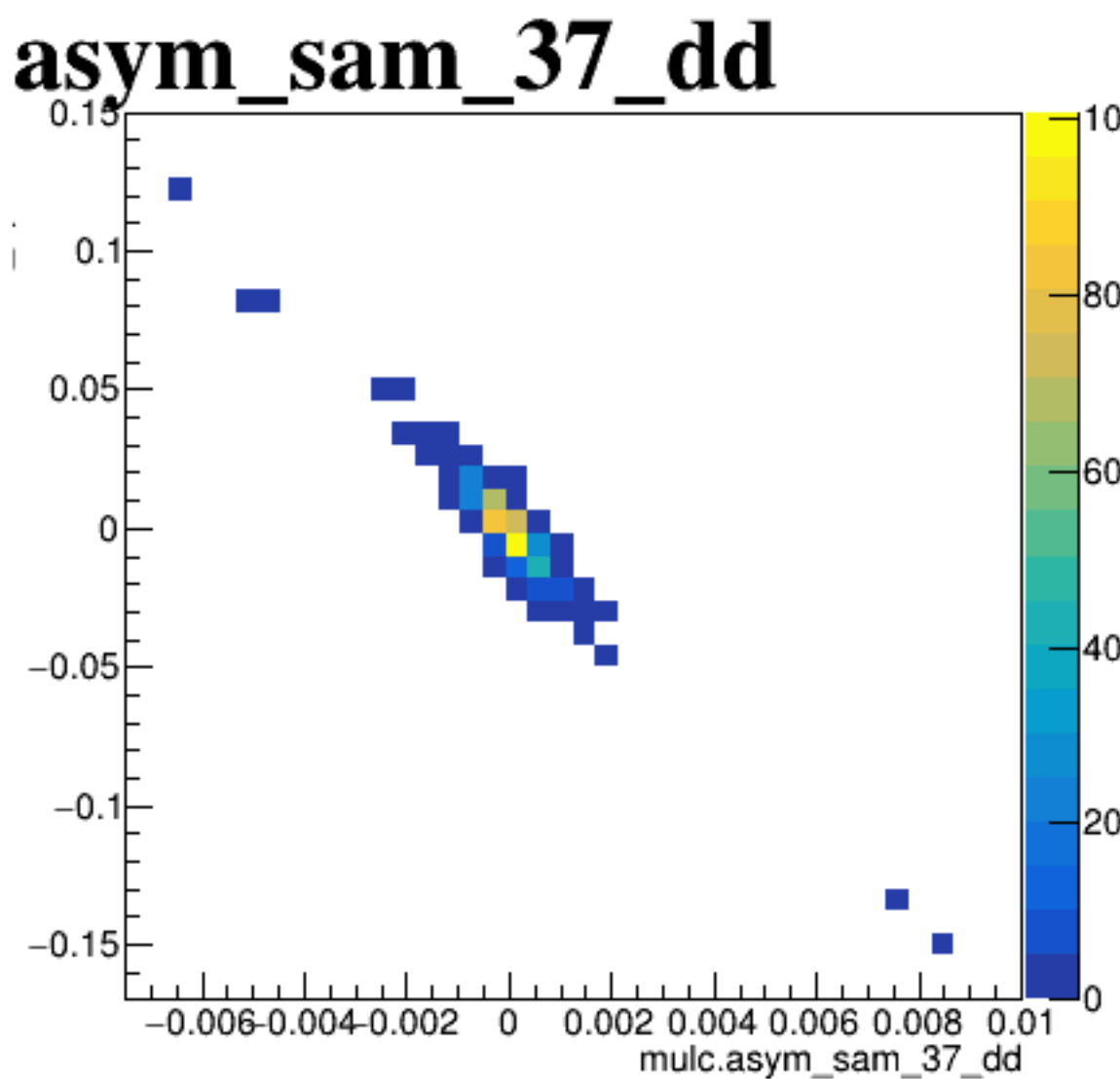
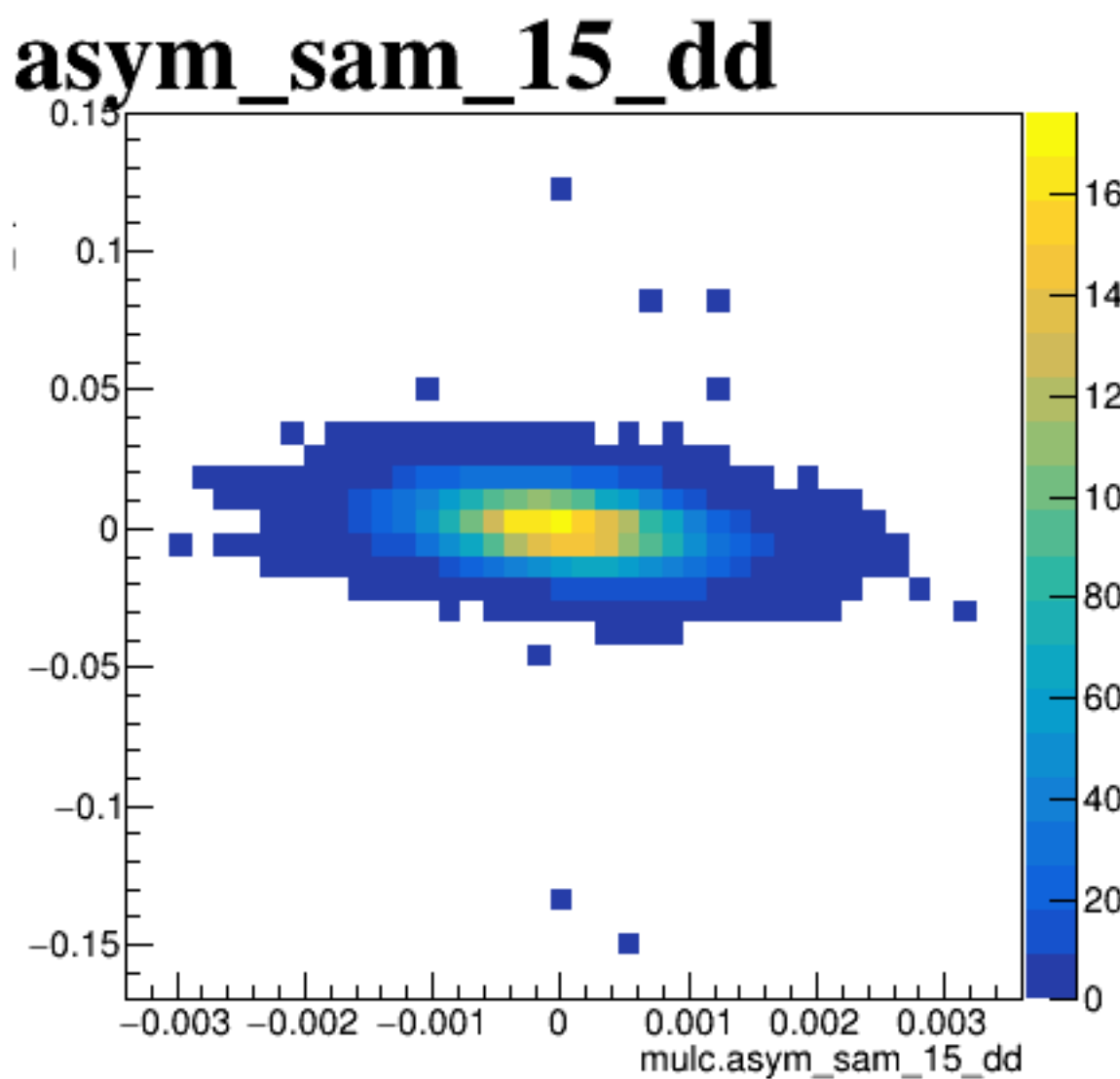
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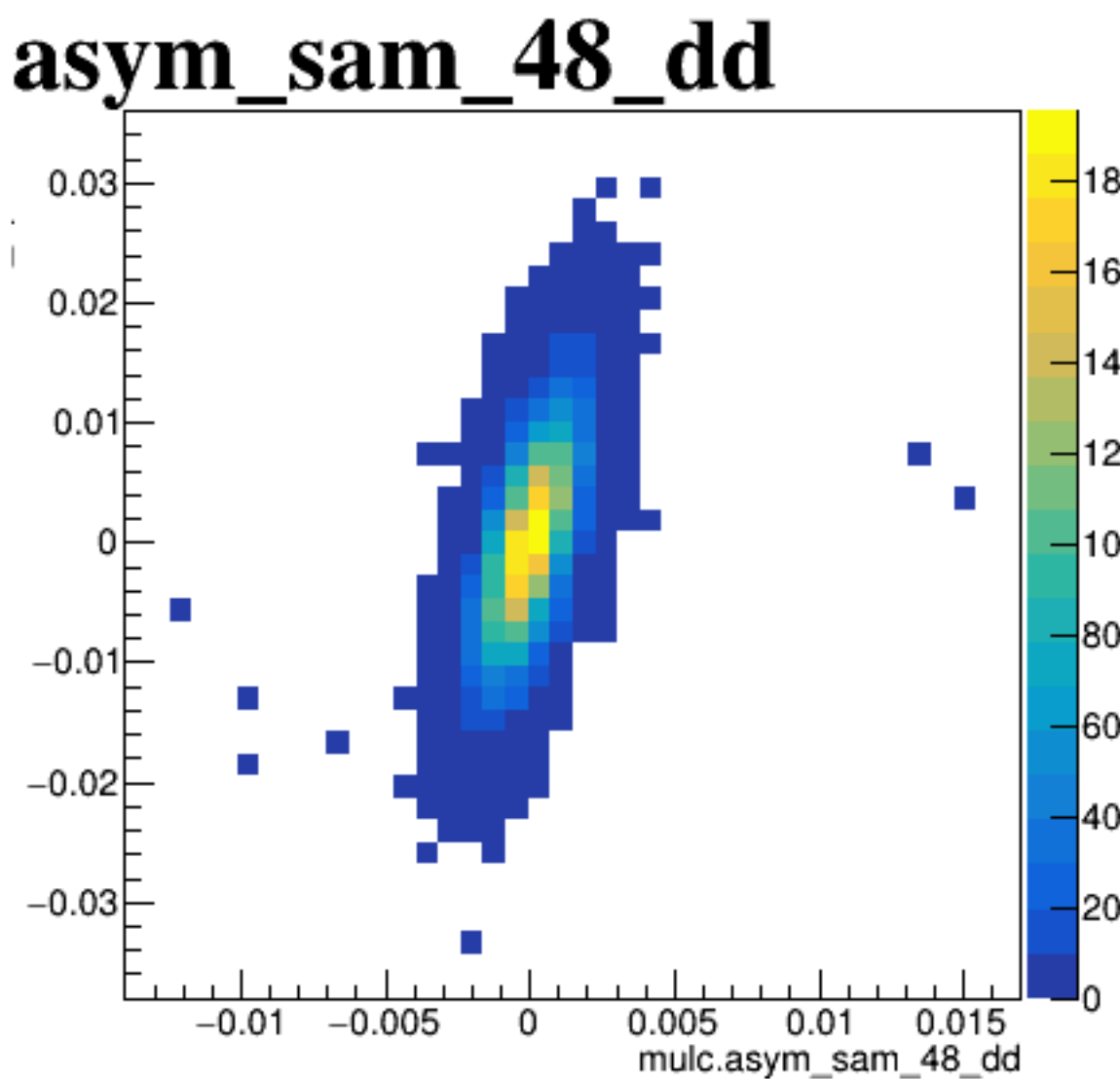
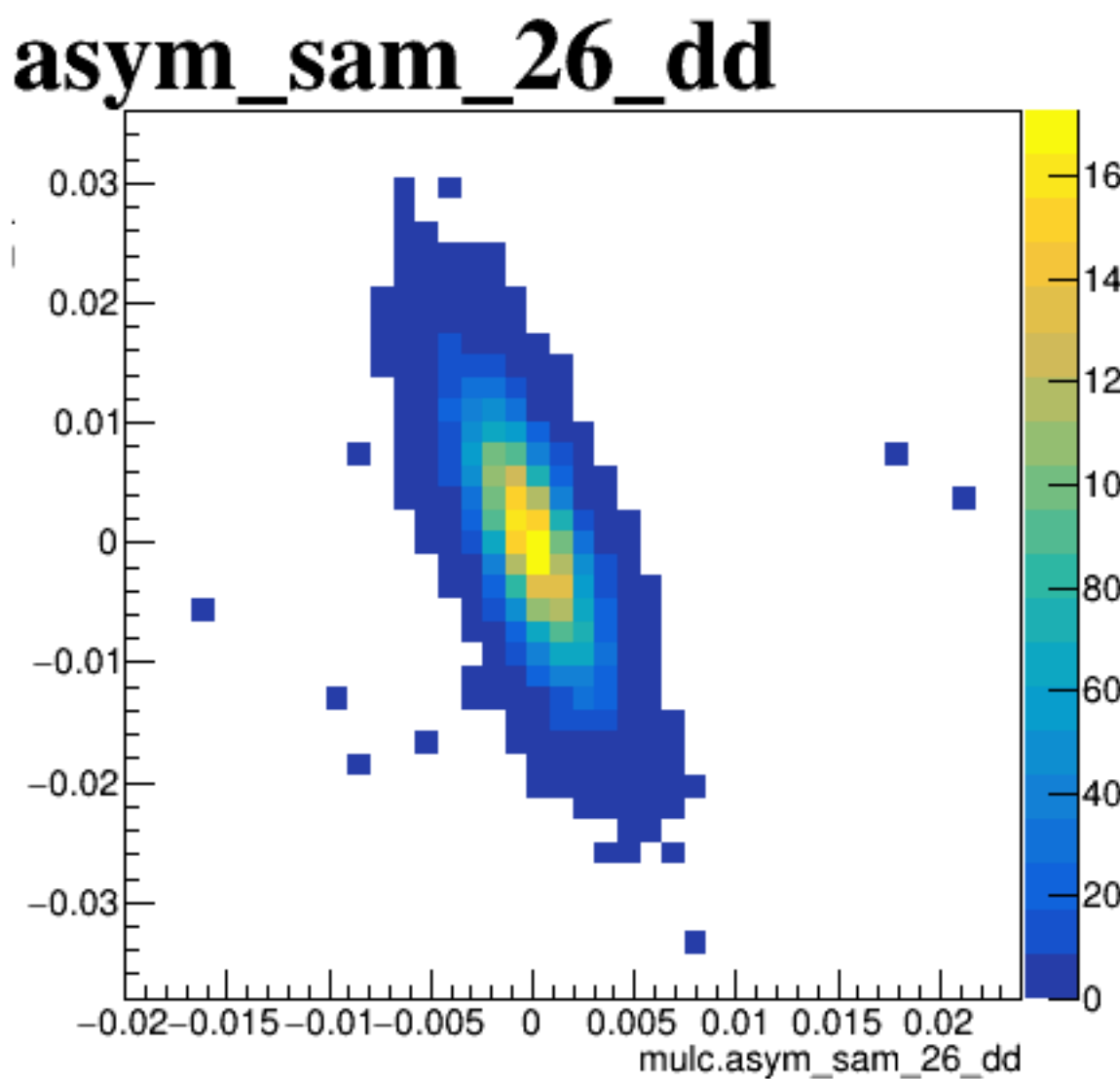
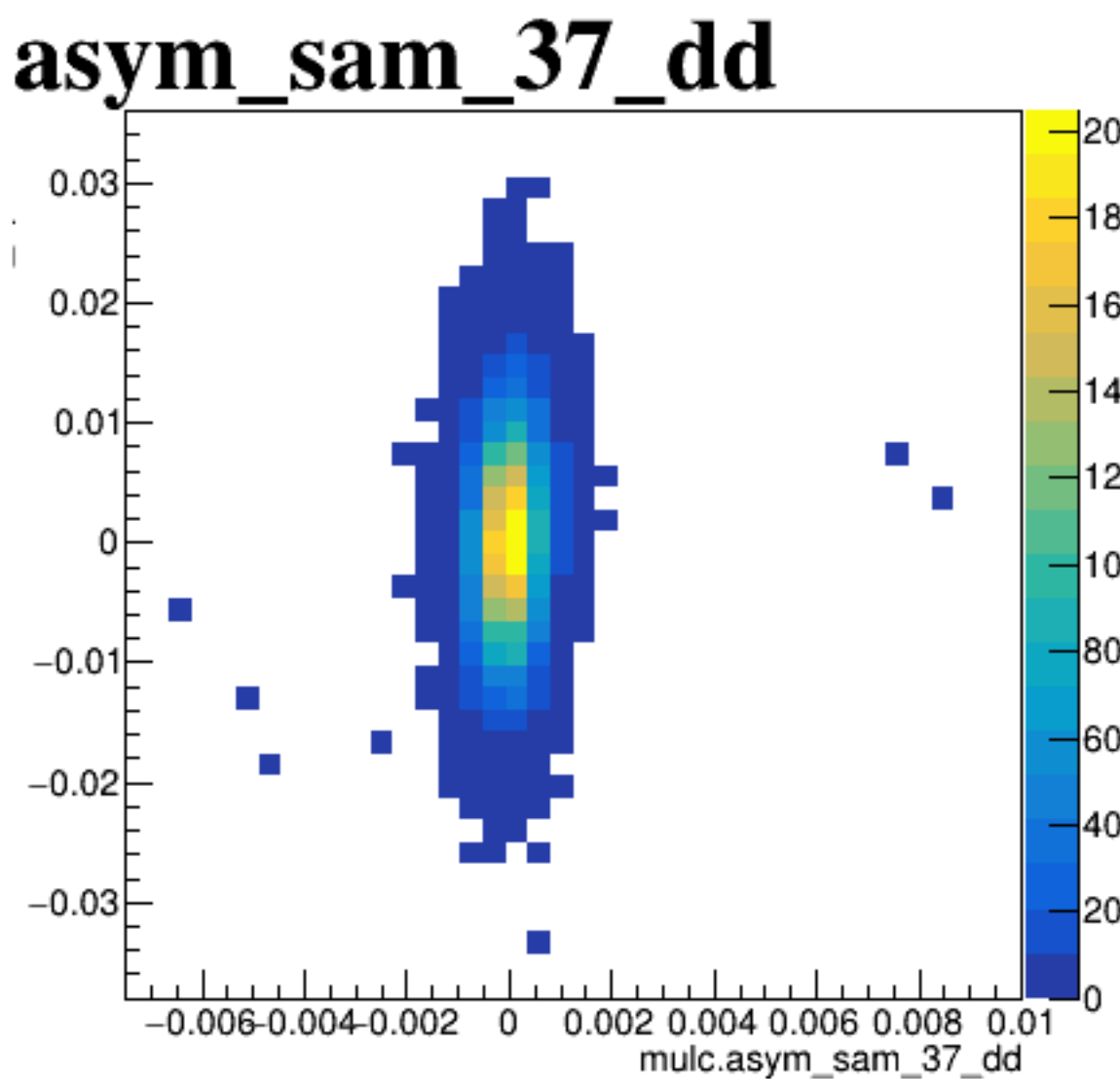
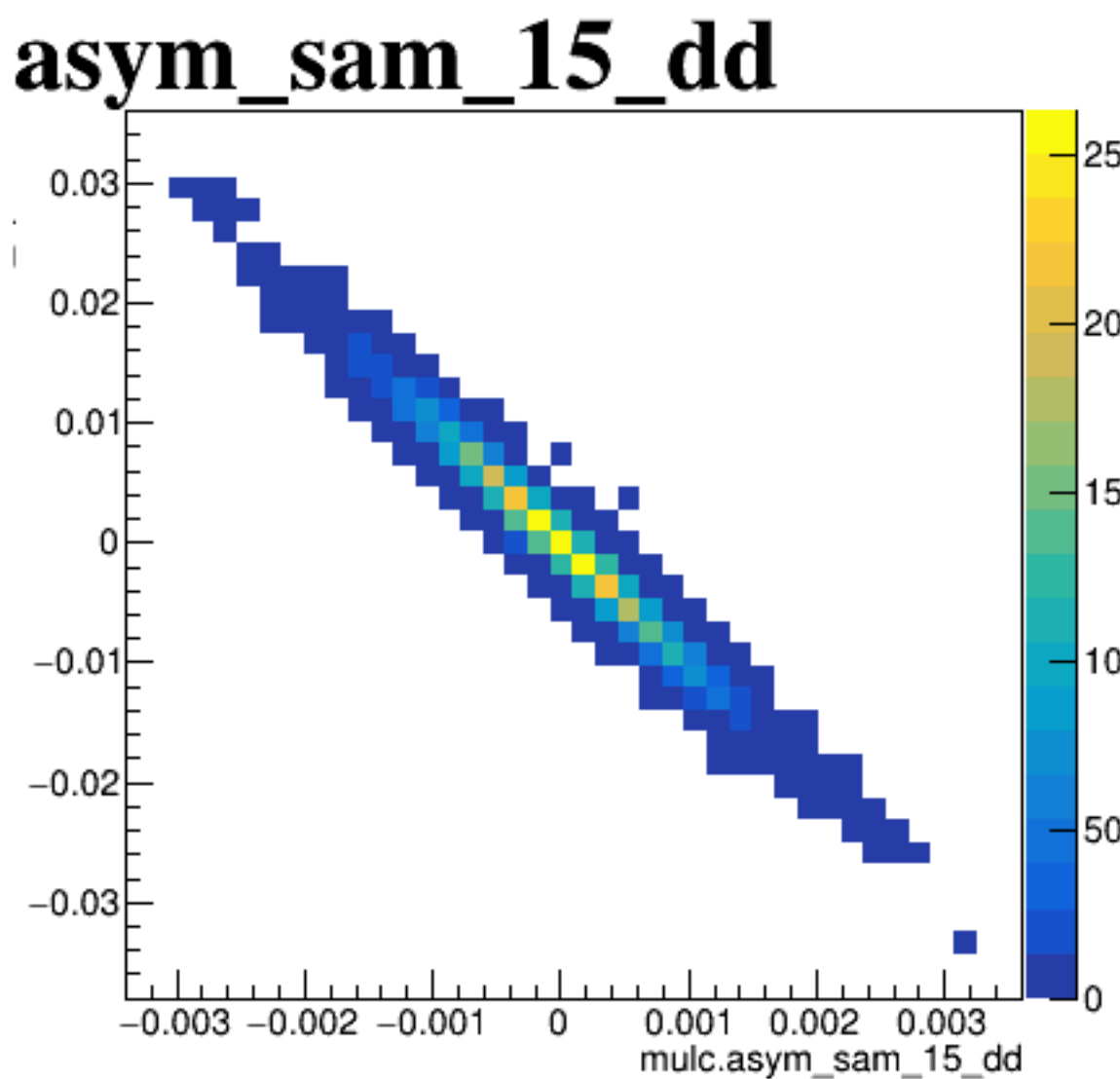
diff_bpm4aY



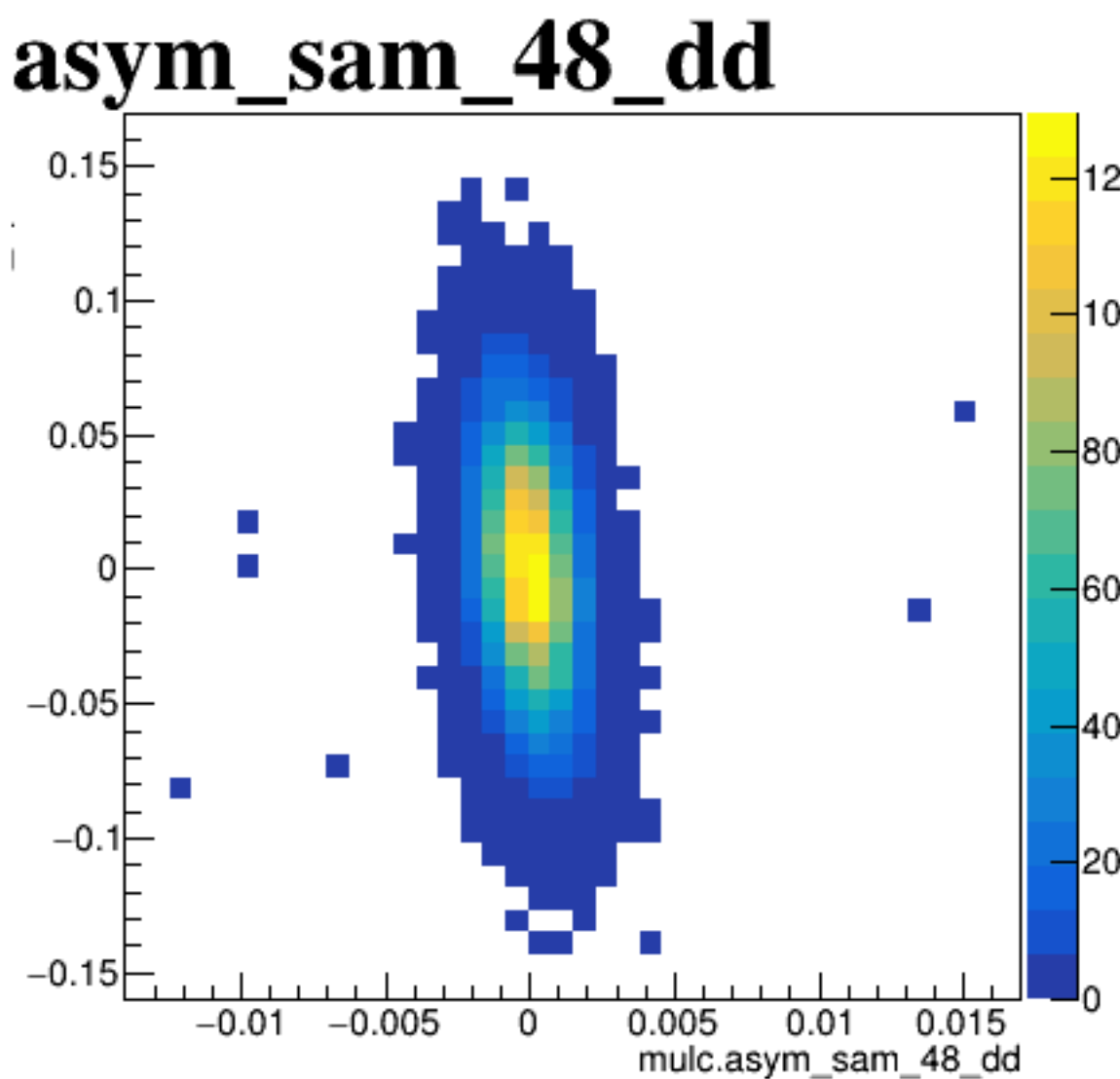
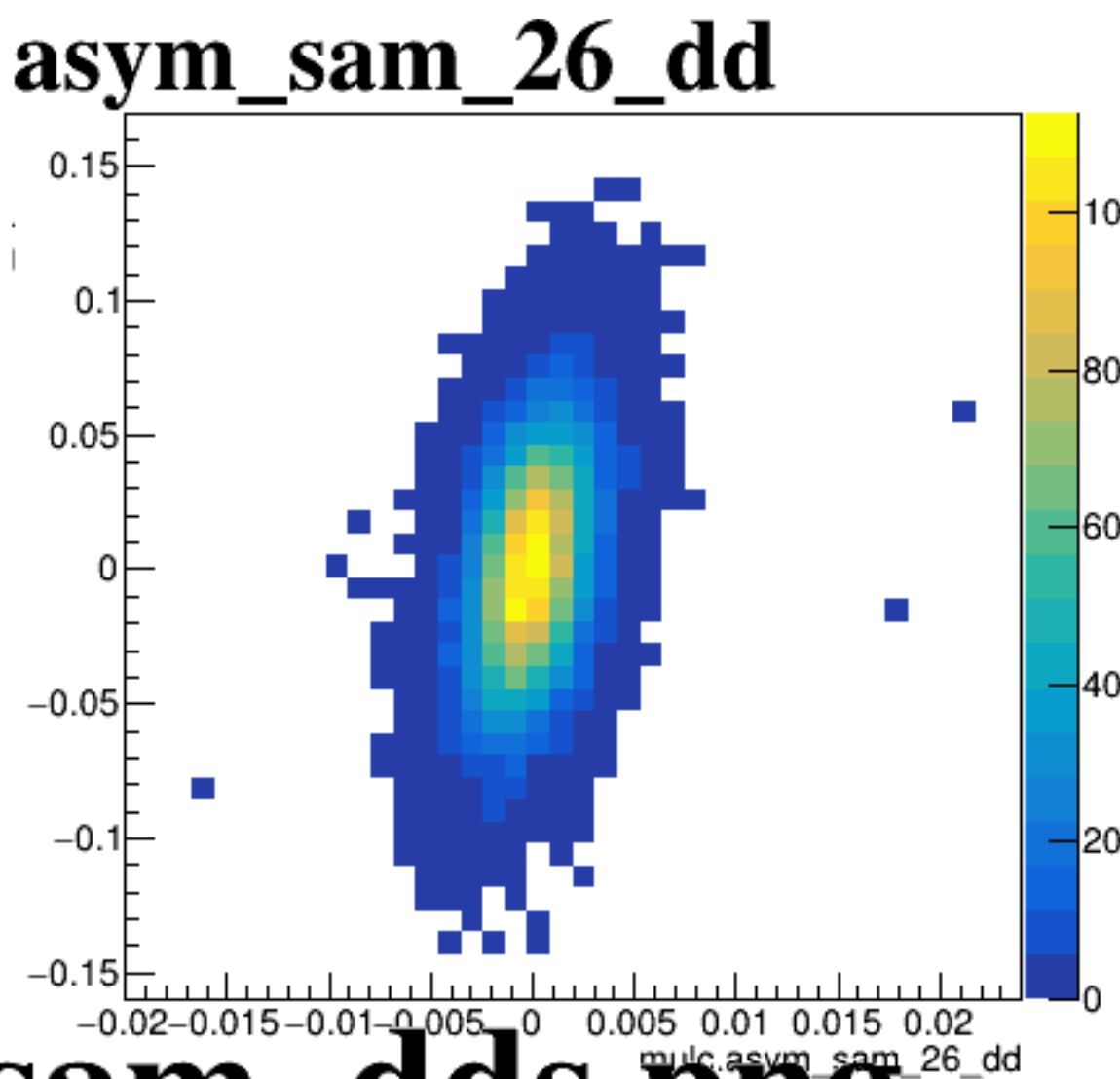
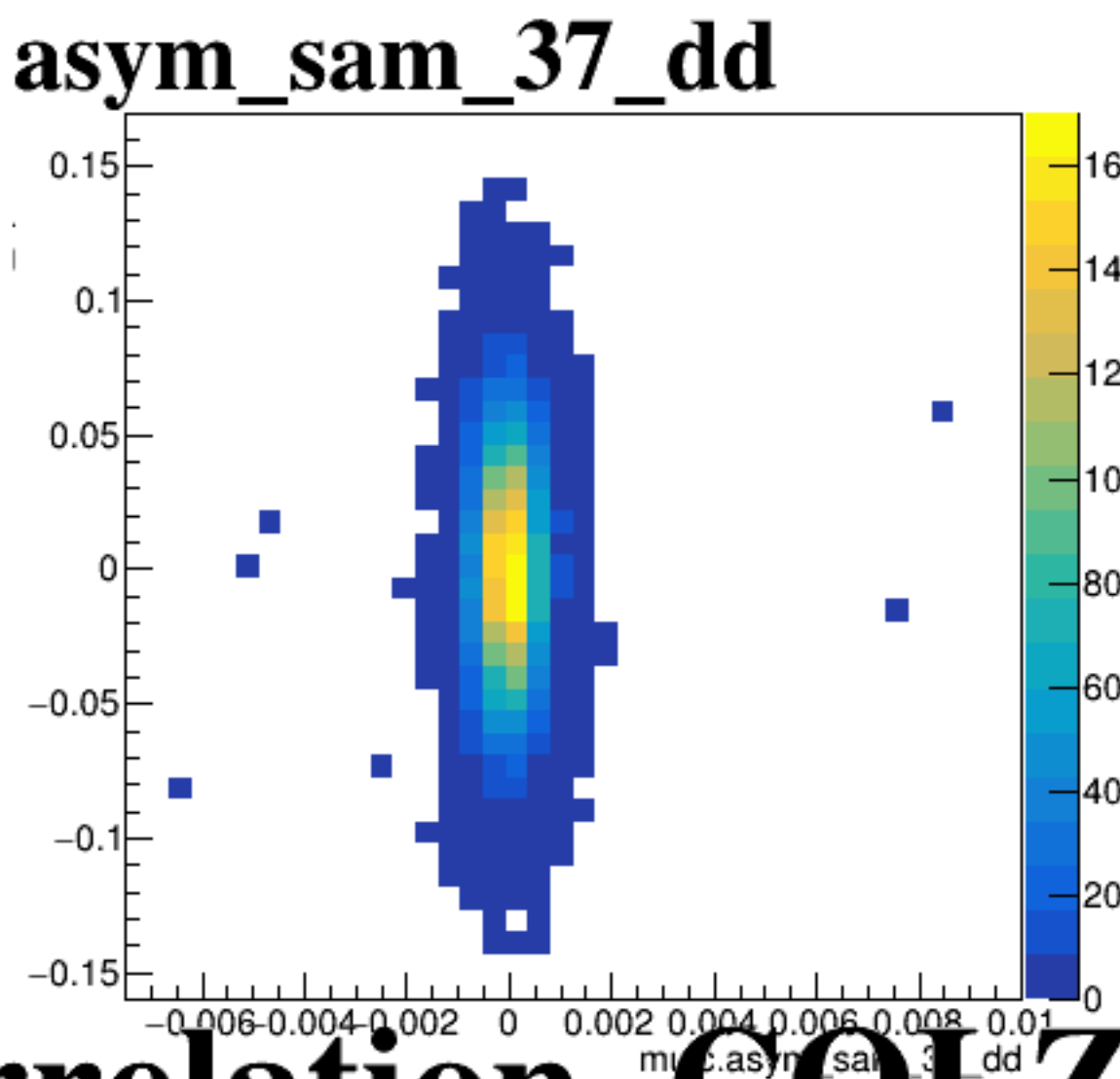
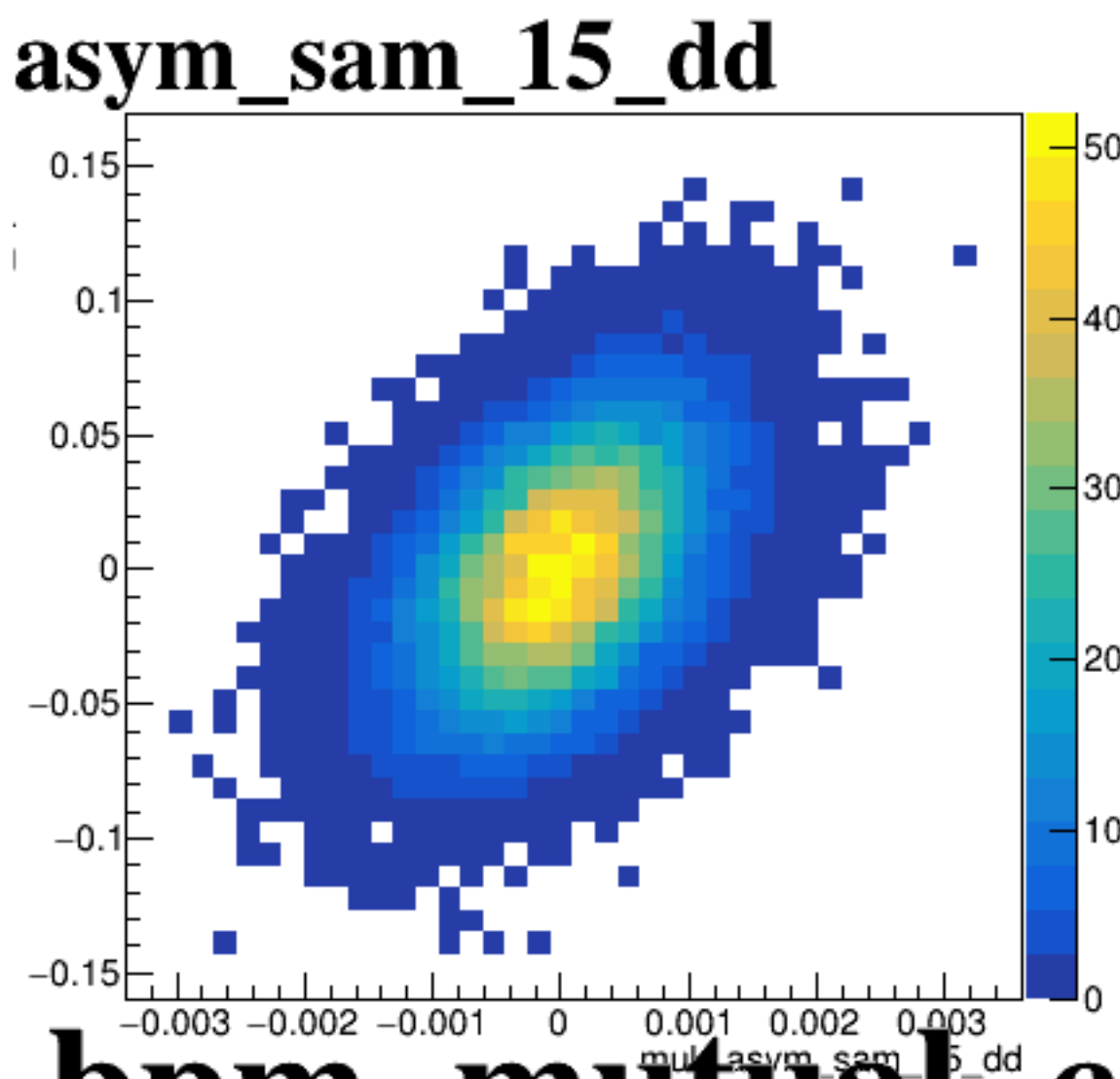
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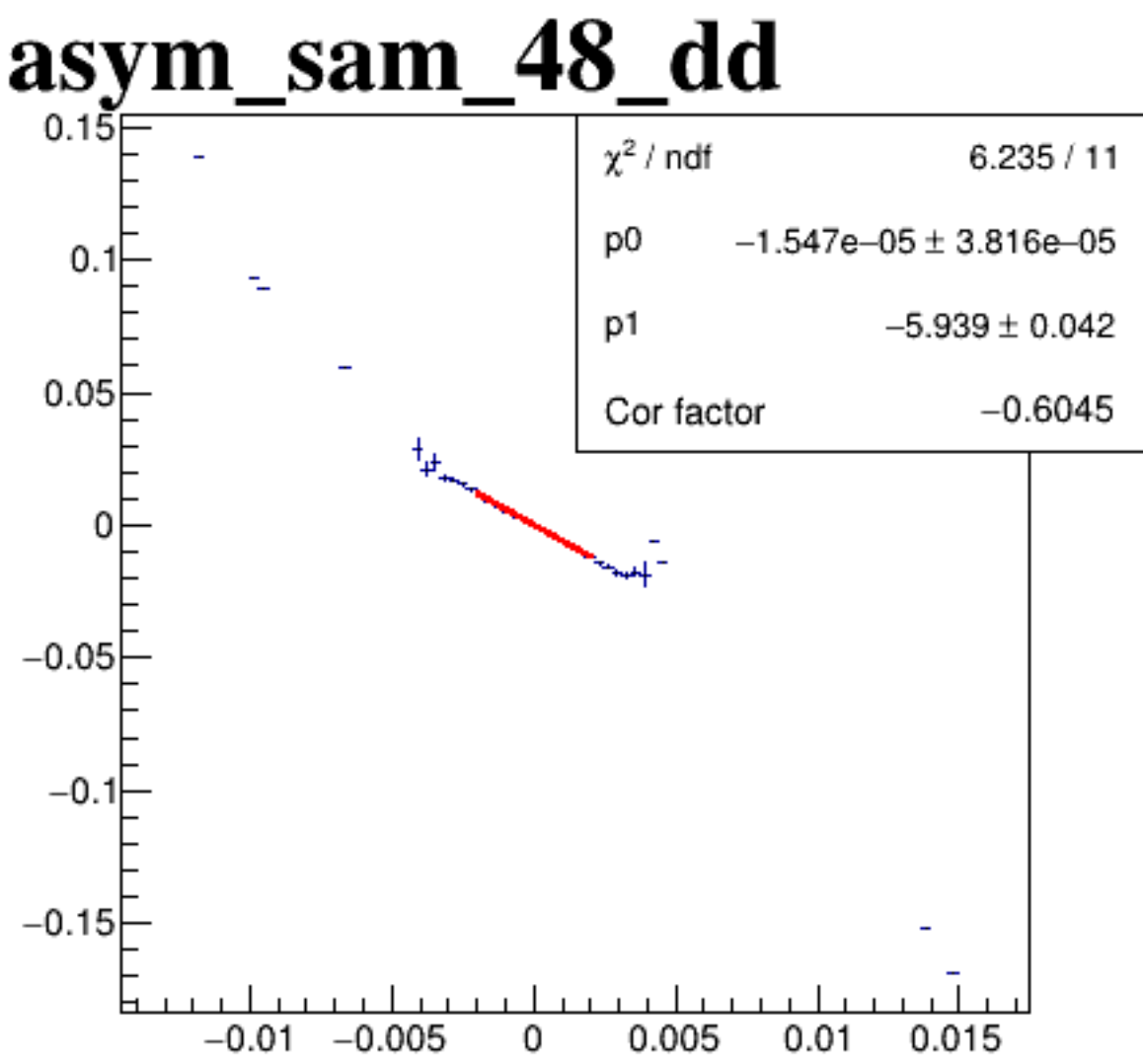
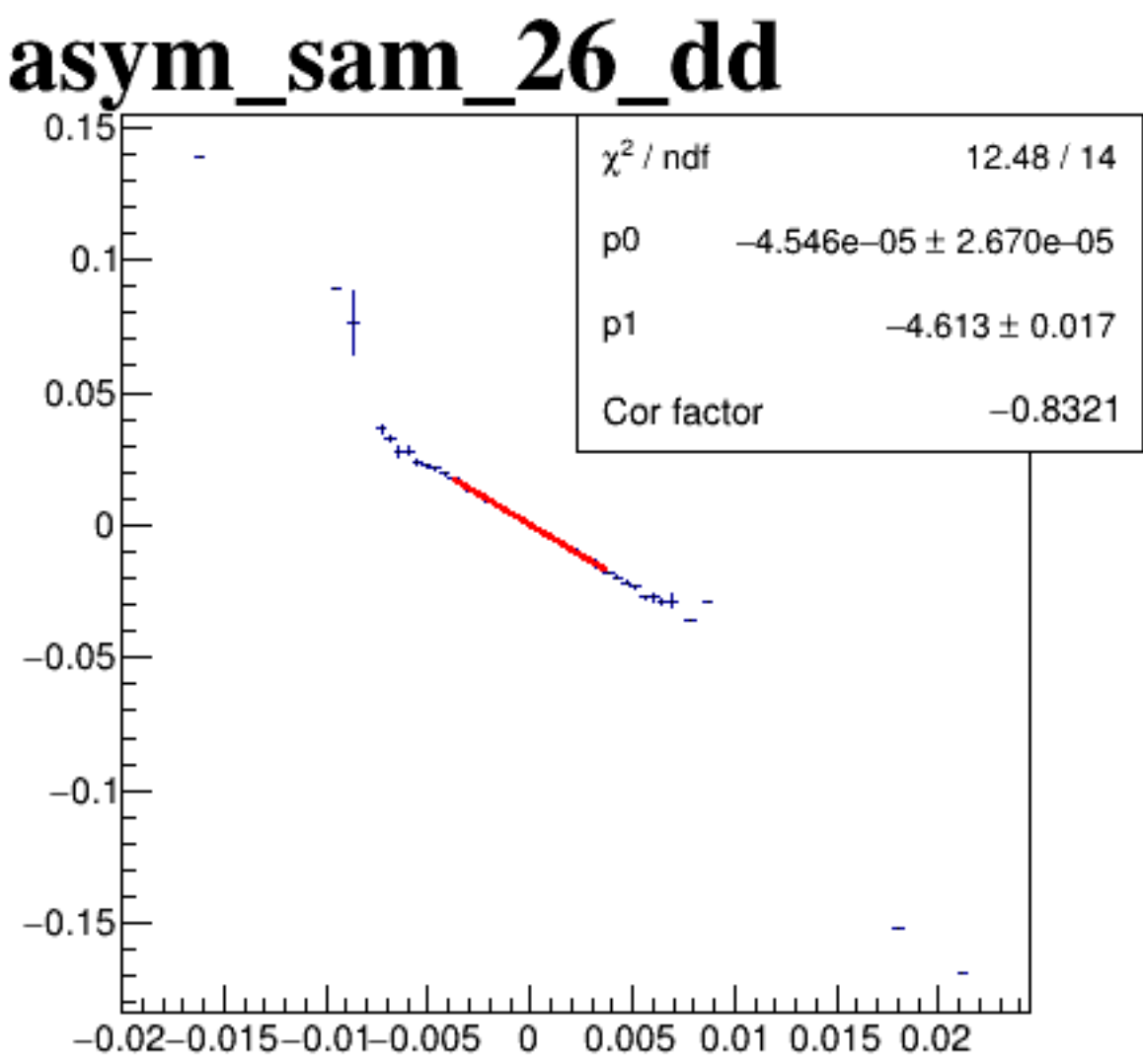
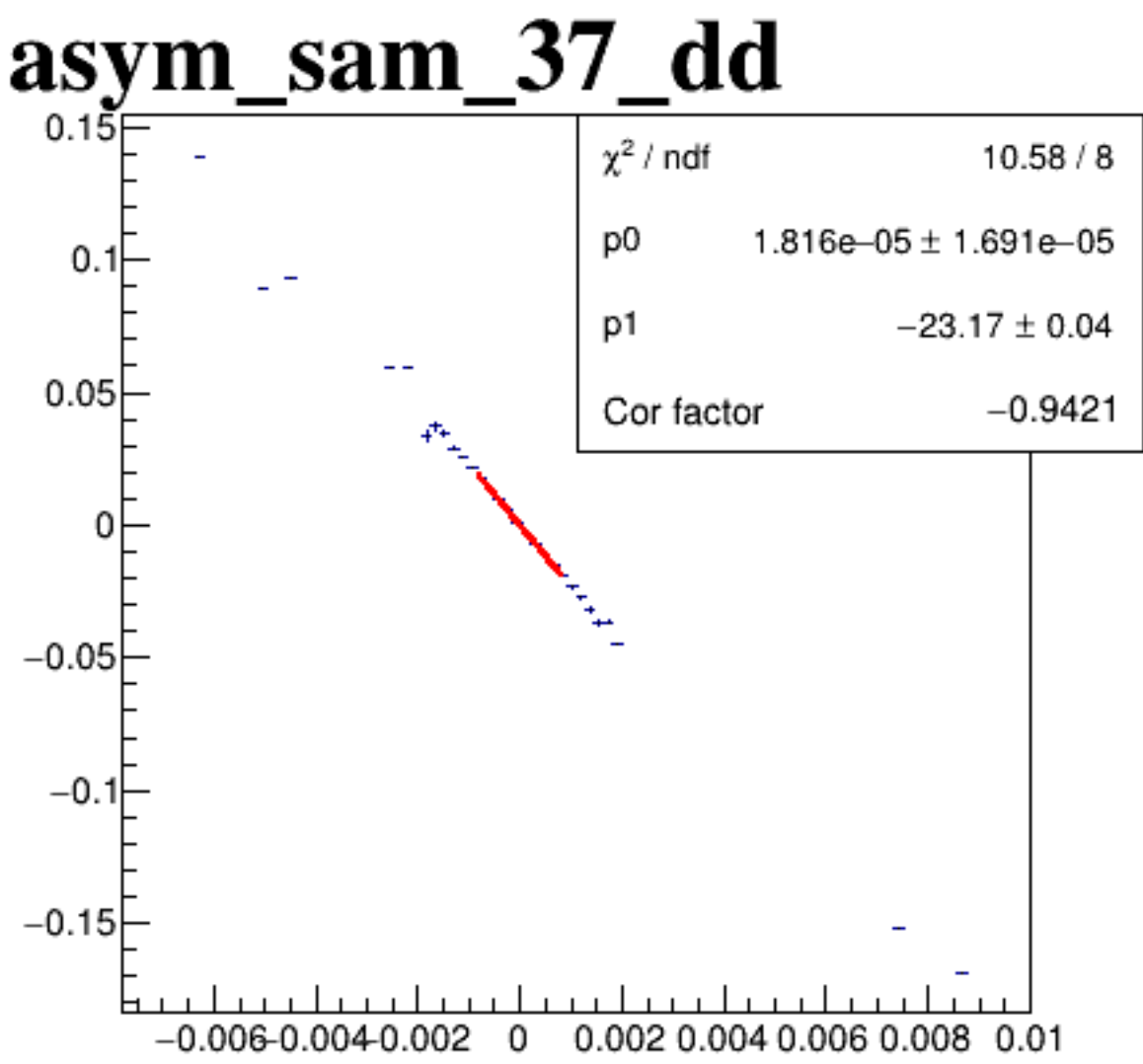
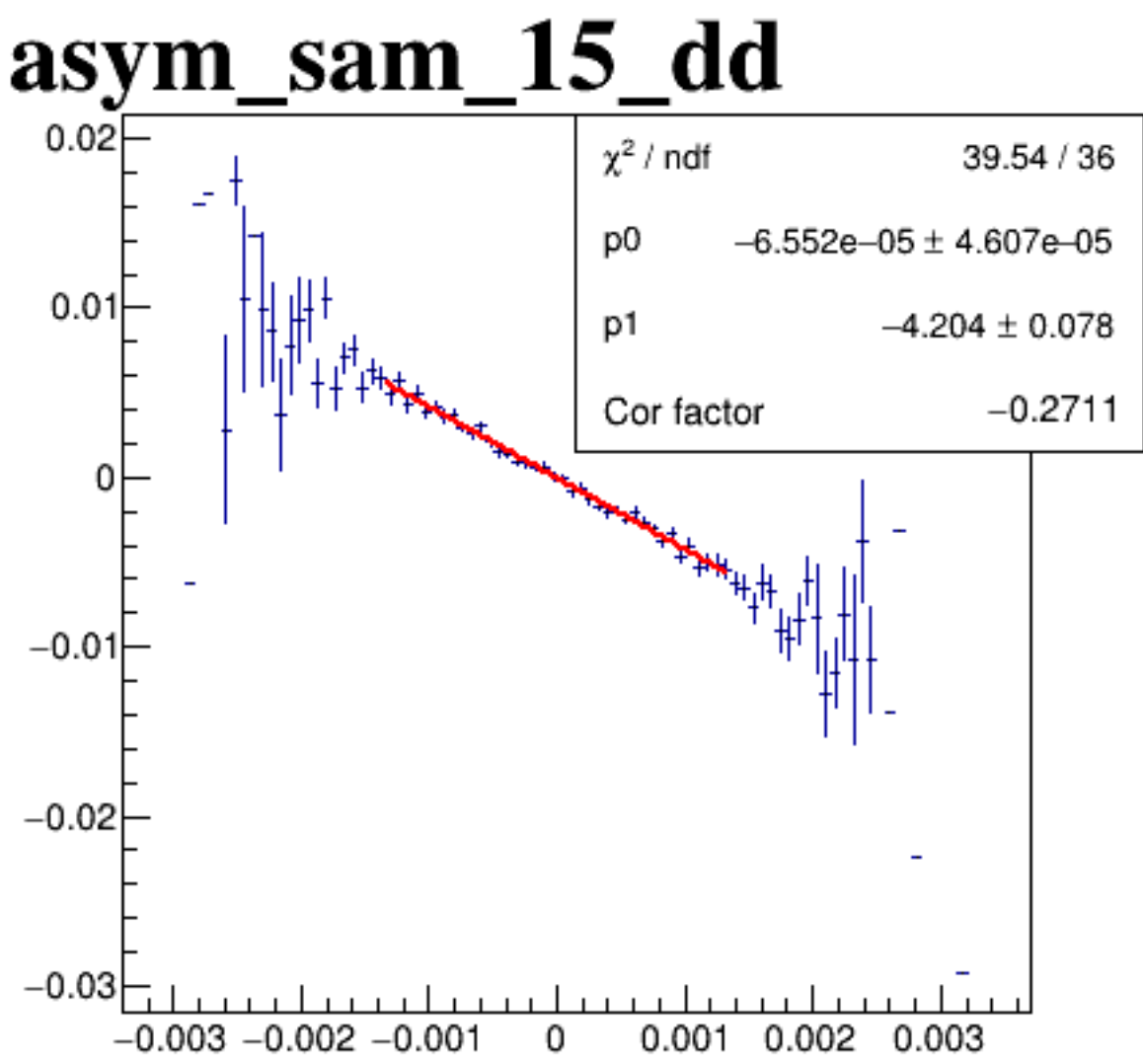
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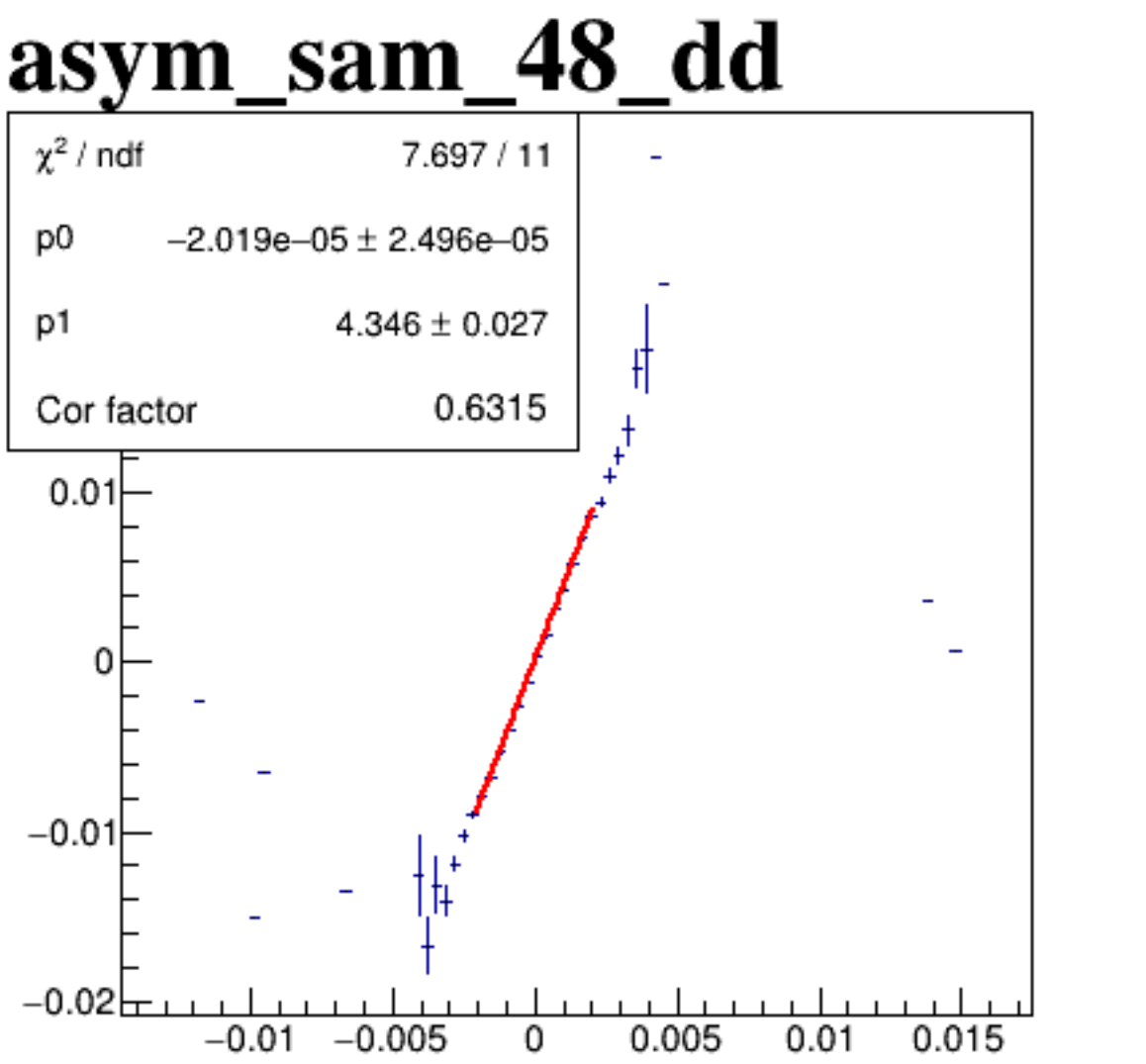
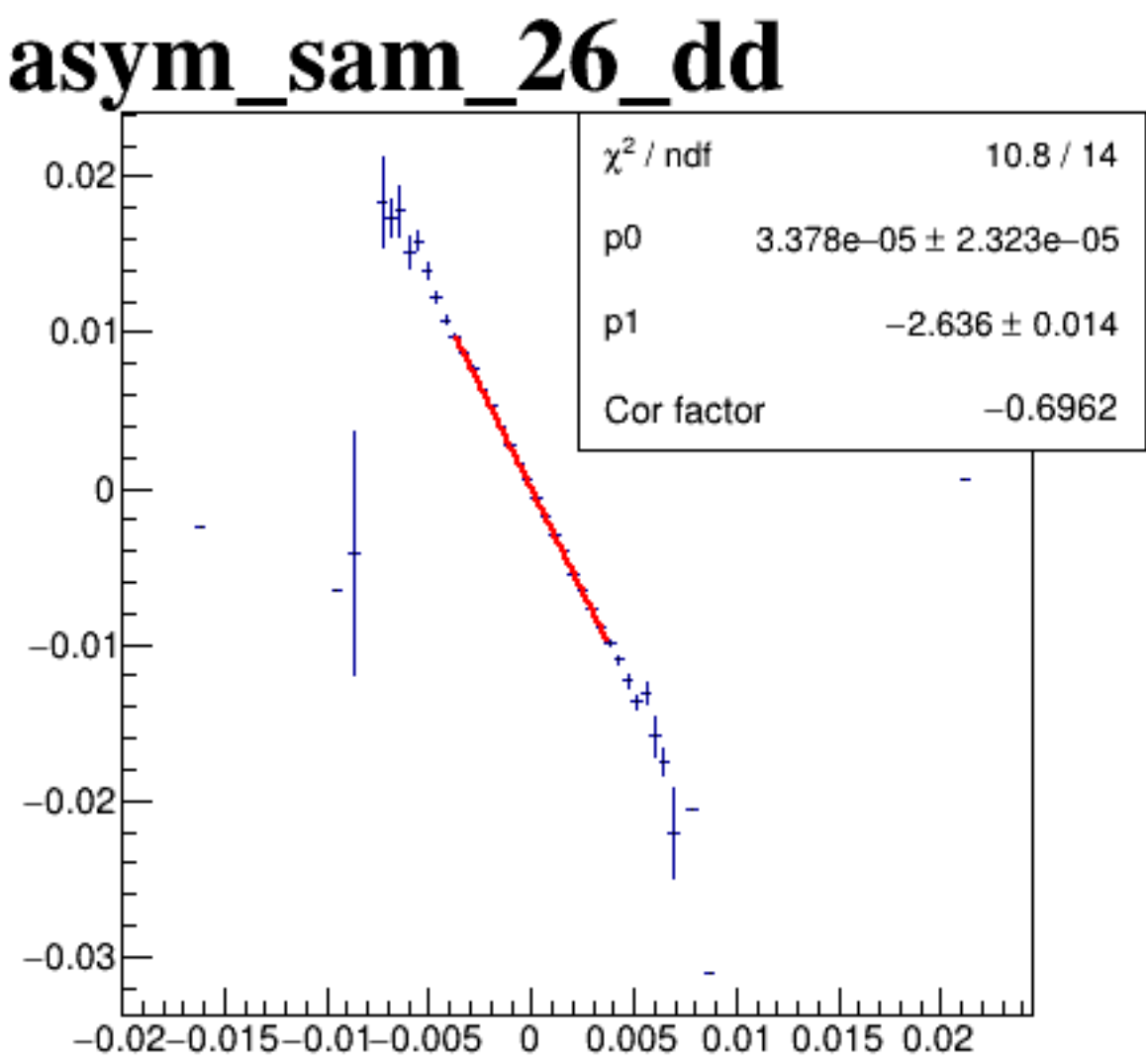
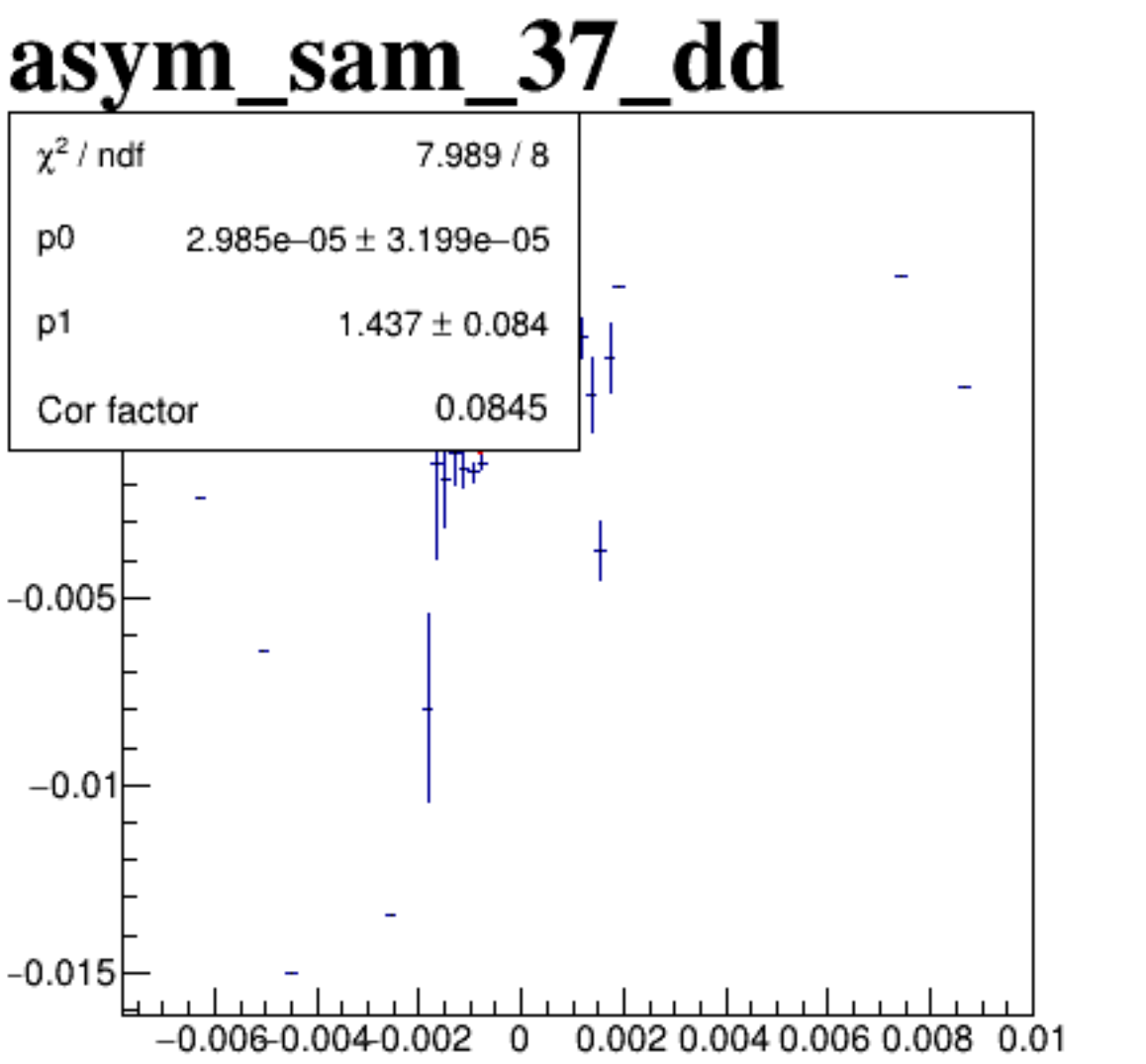
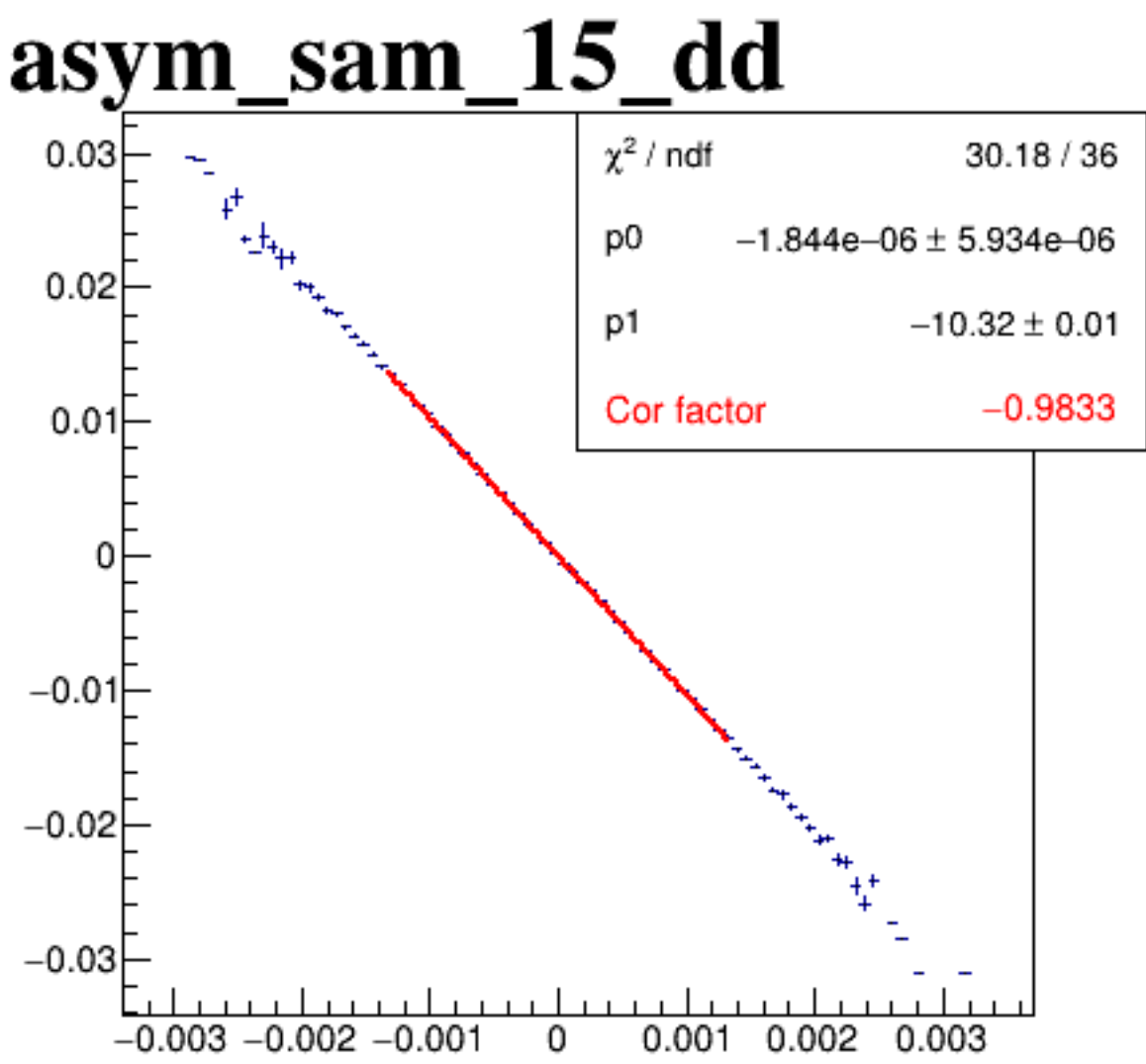
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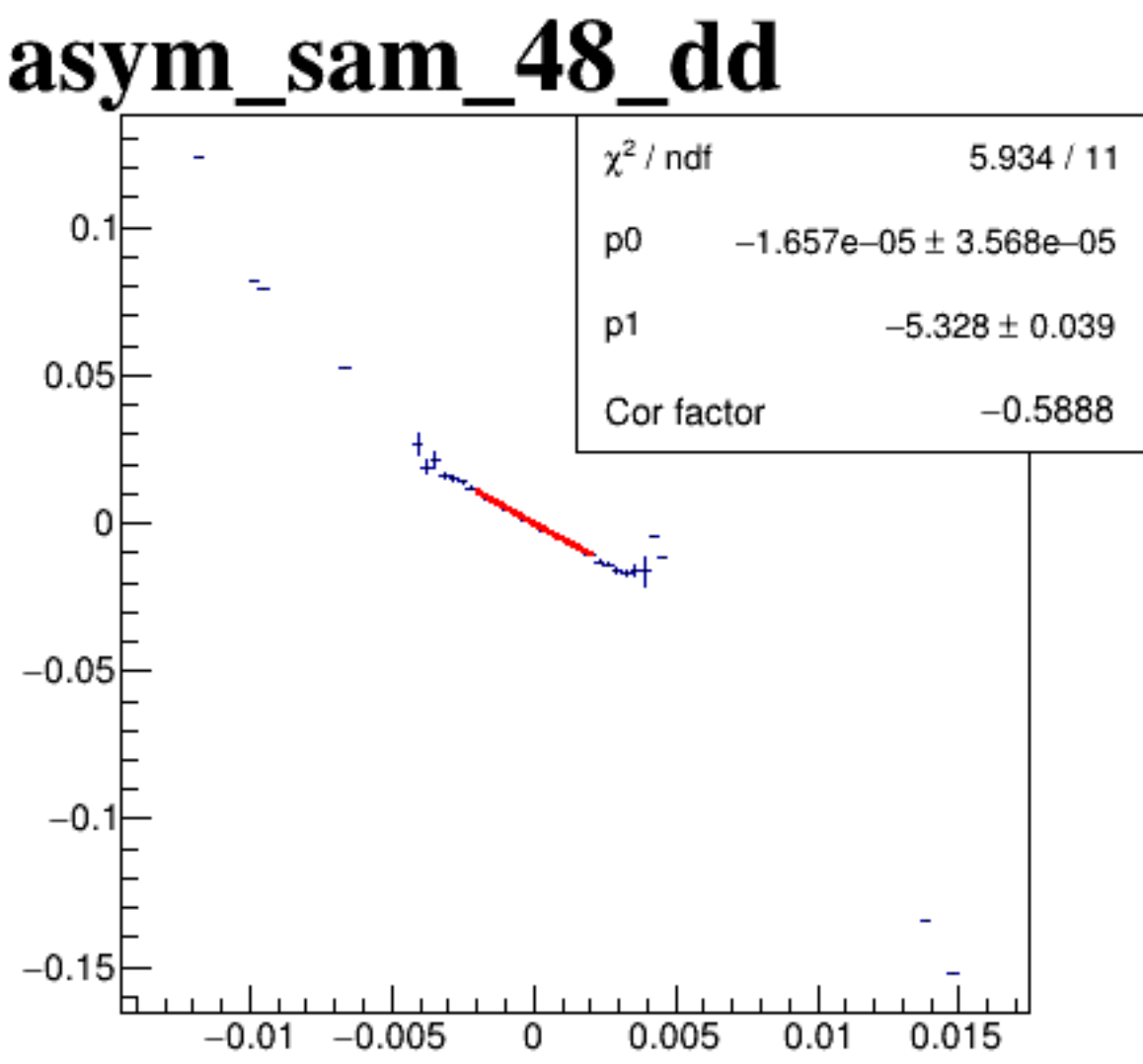
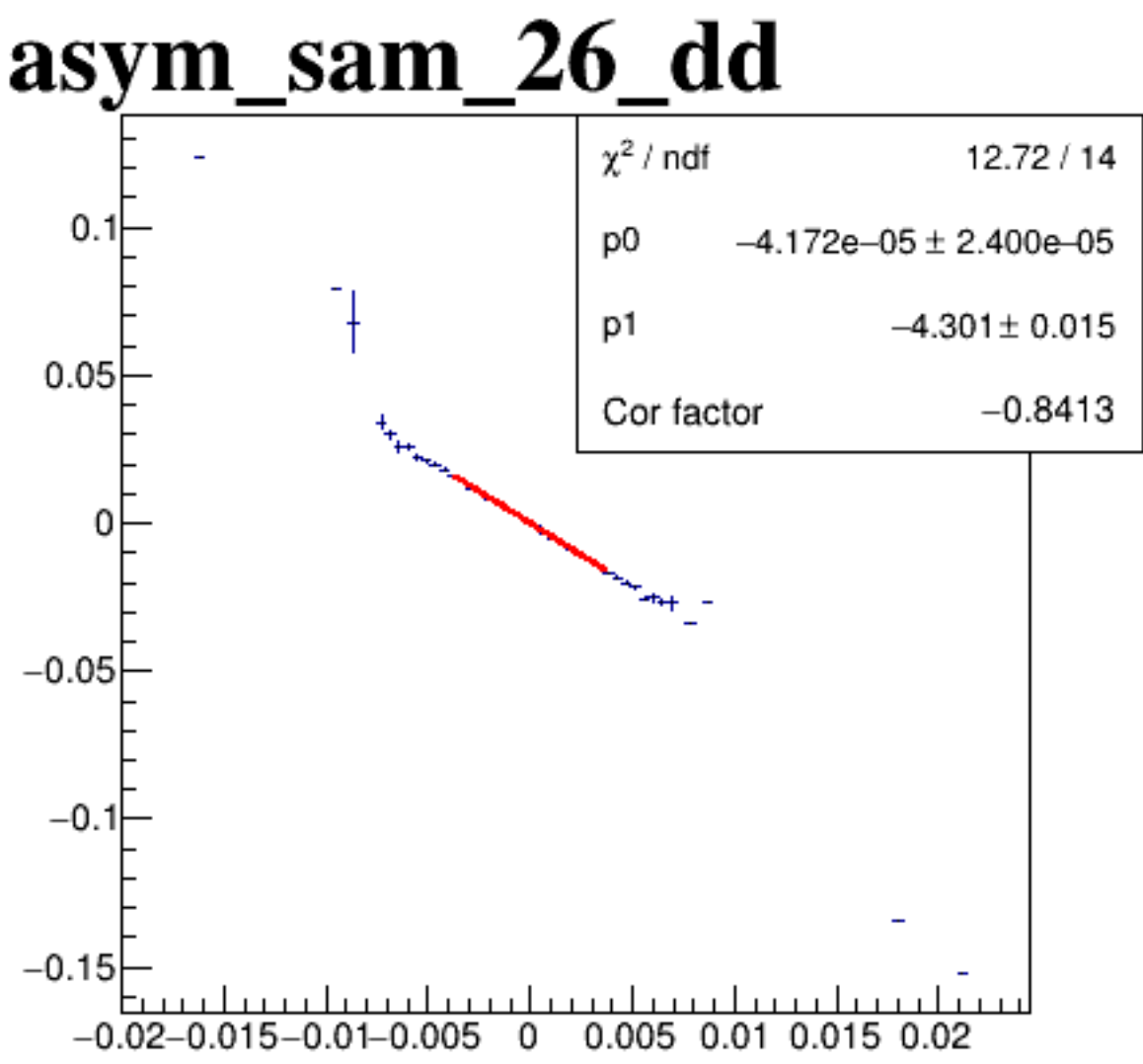
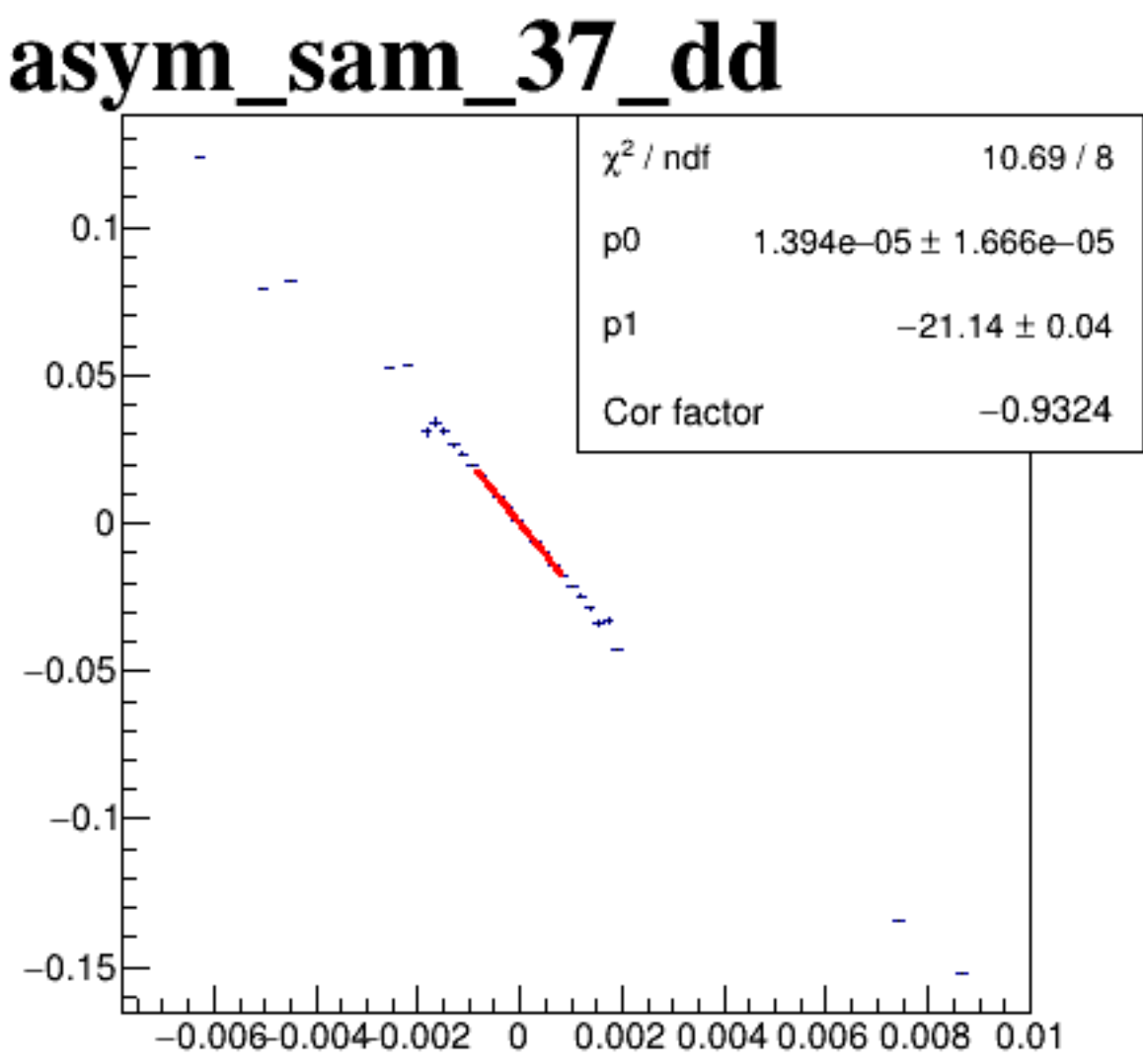
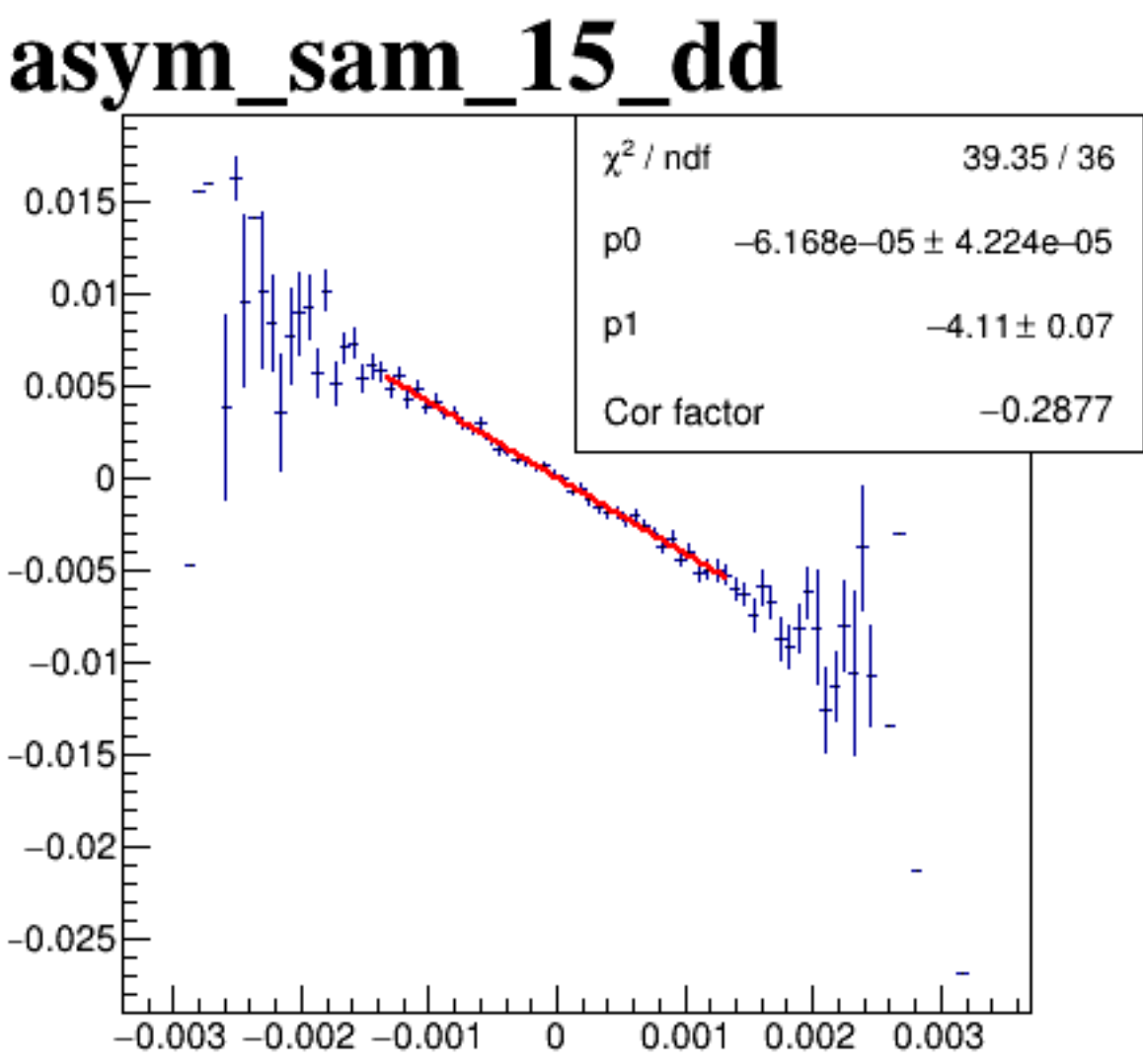
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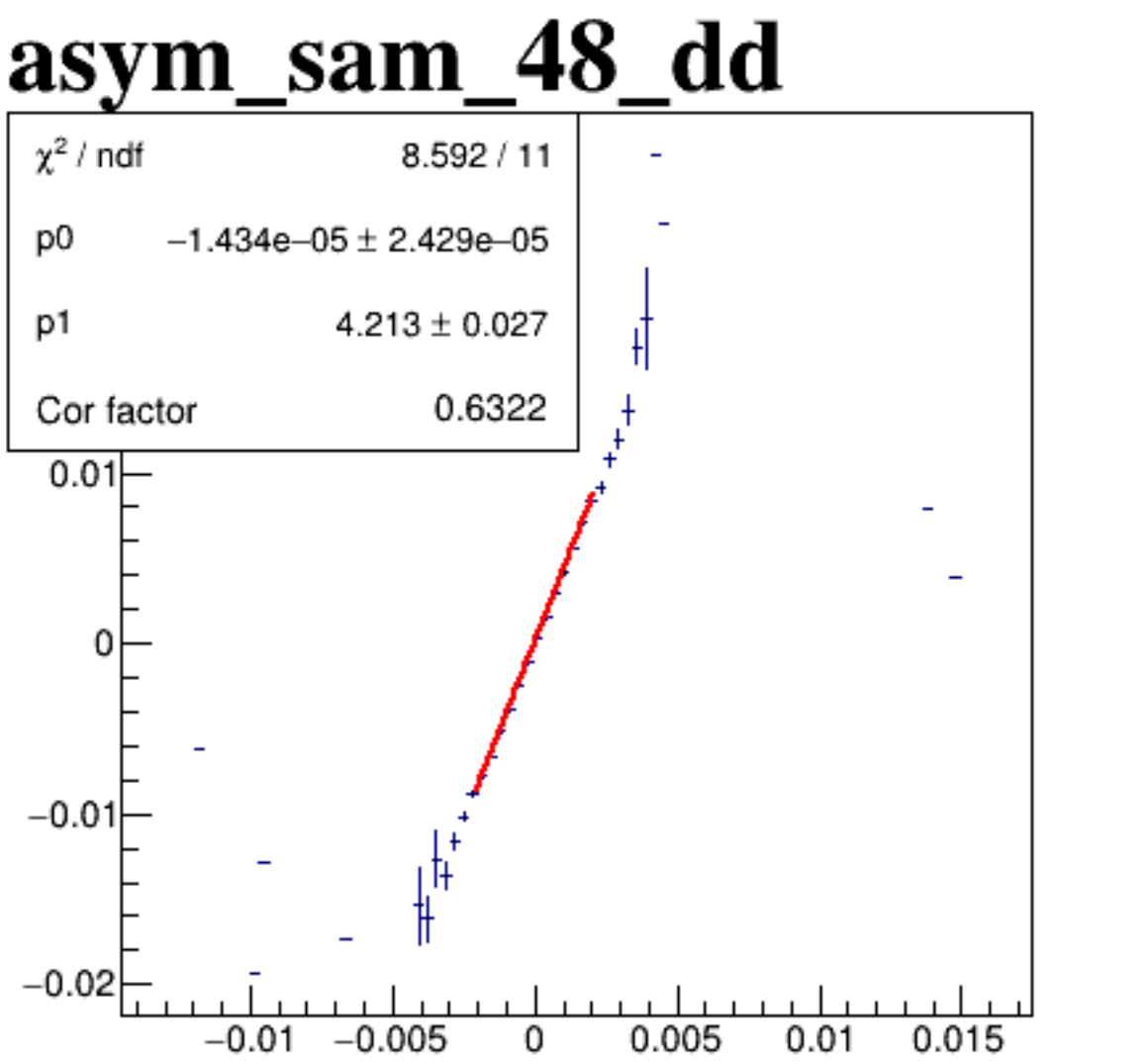
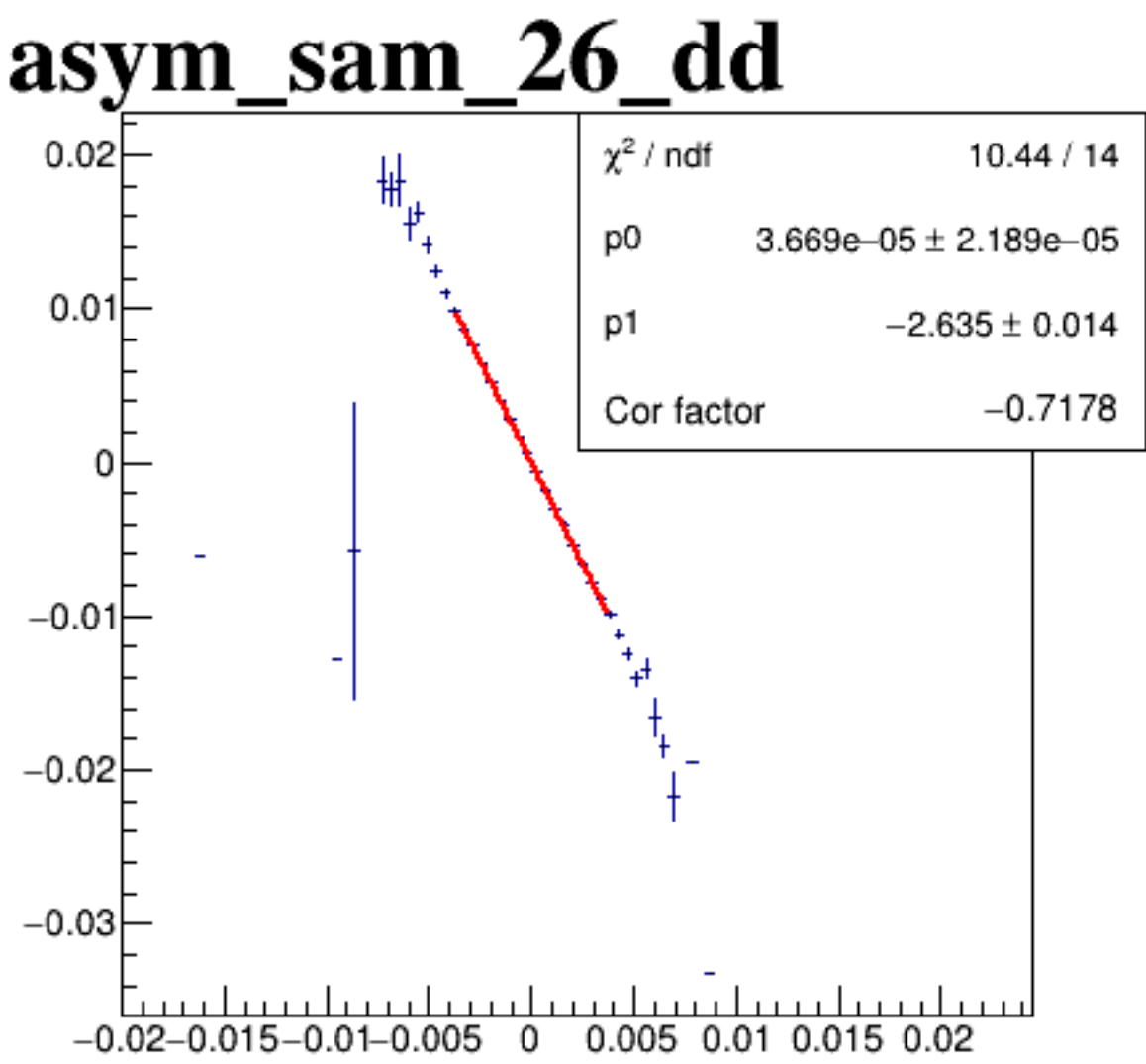
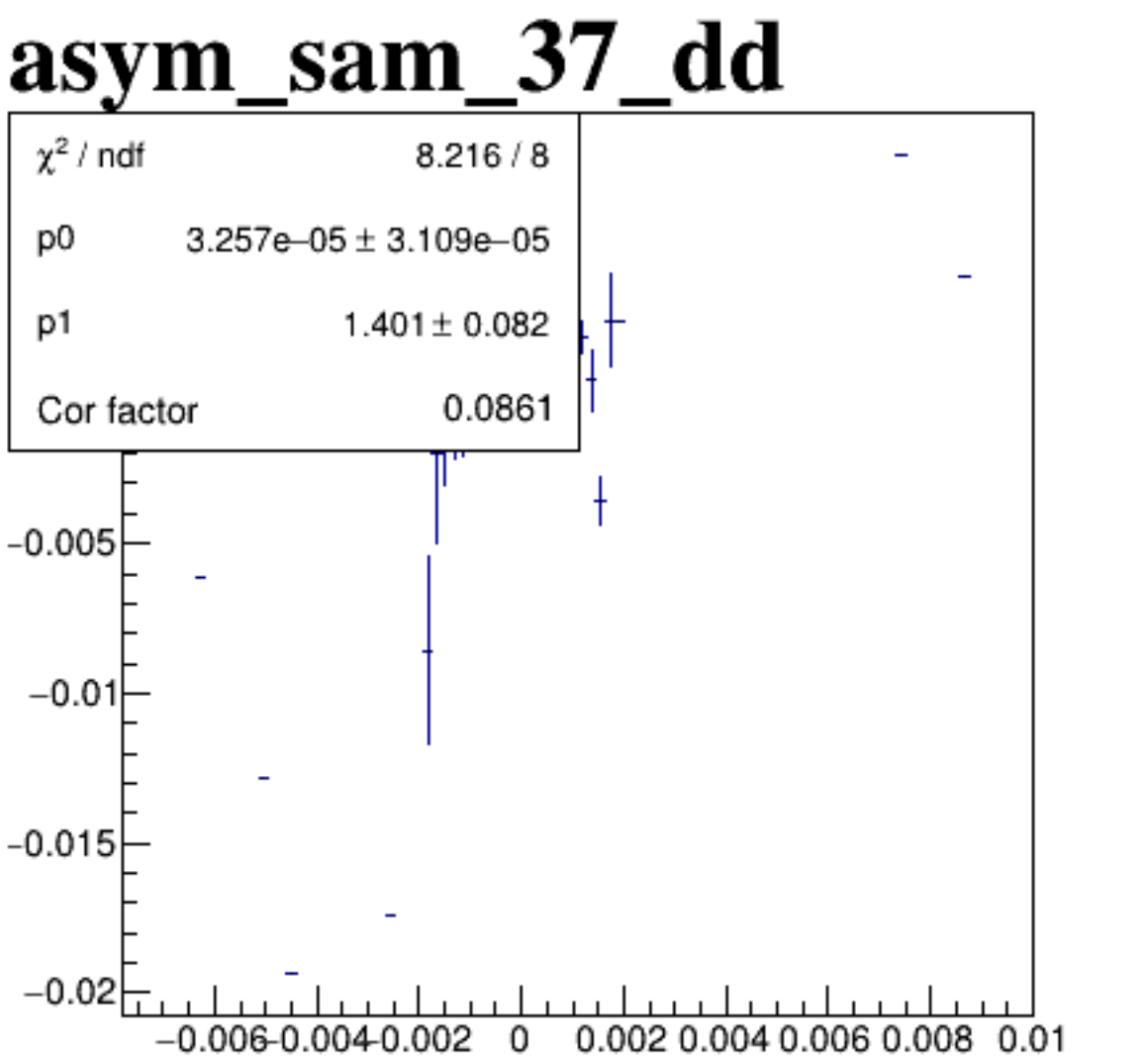
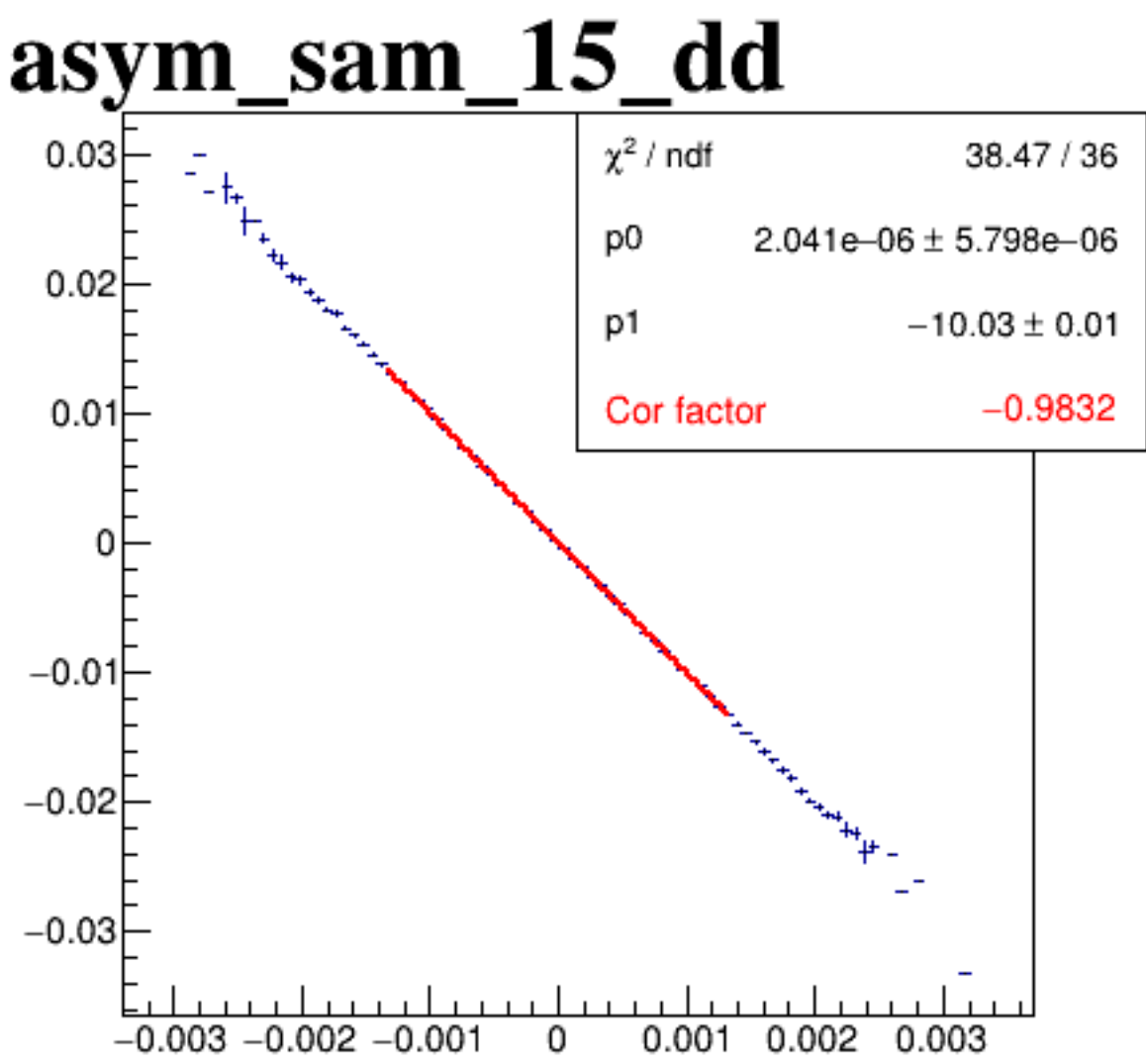
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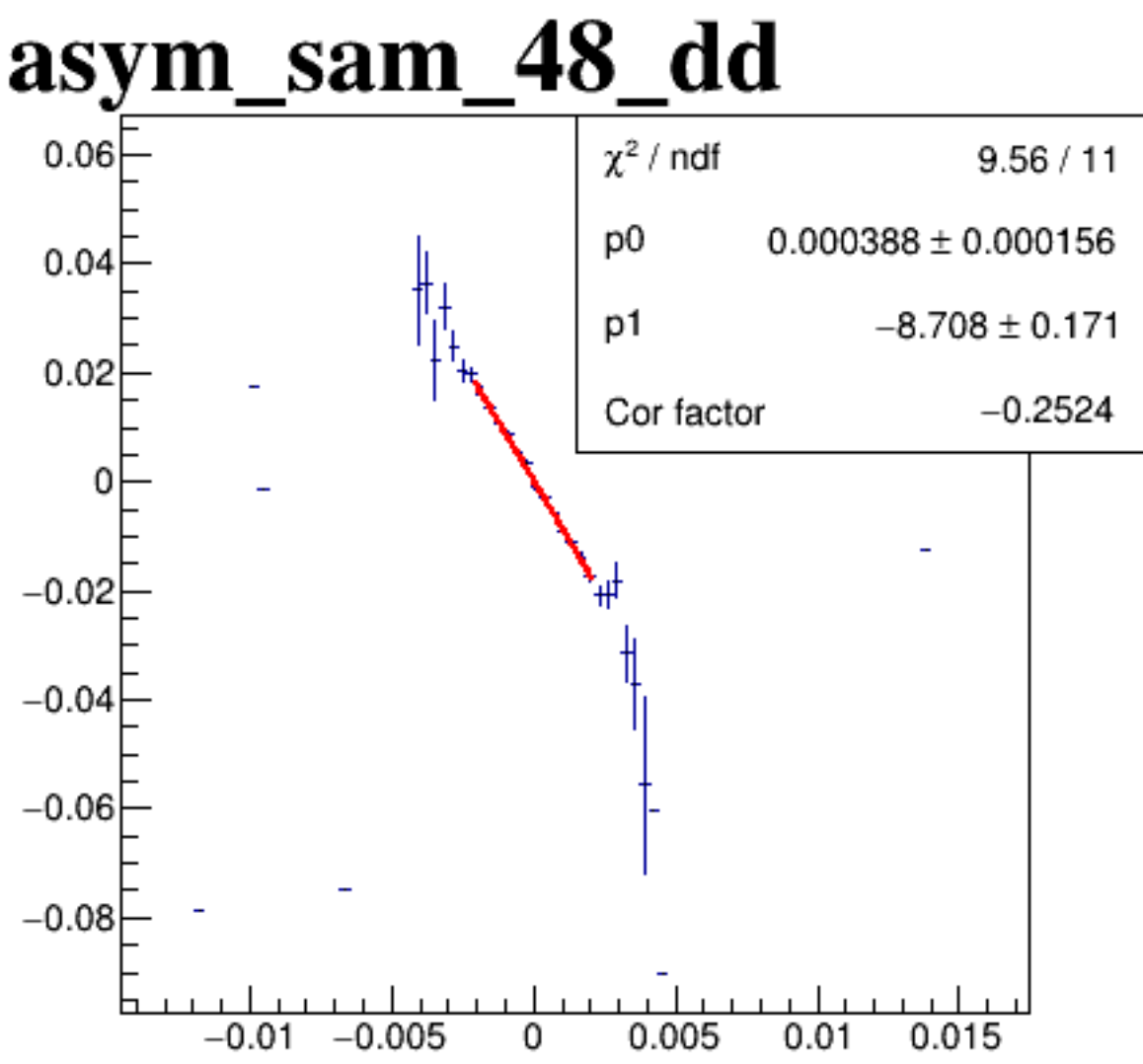
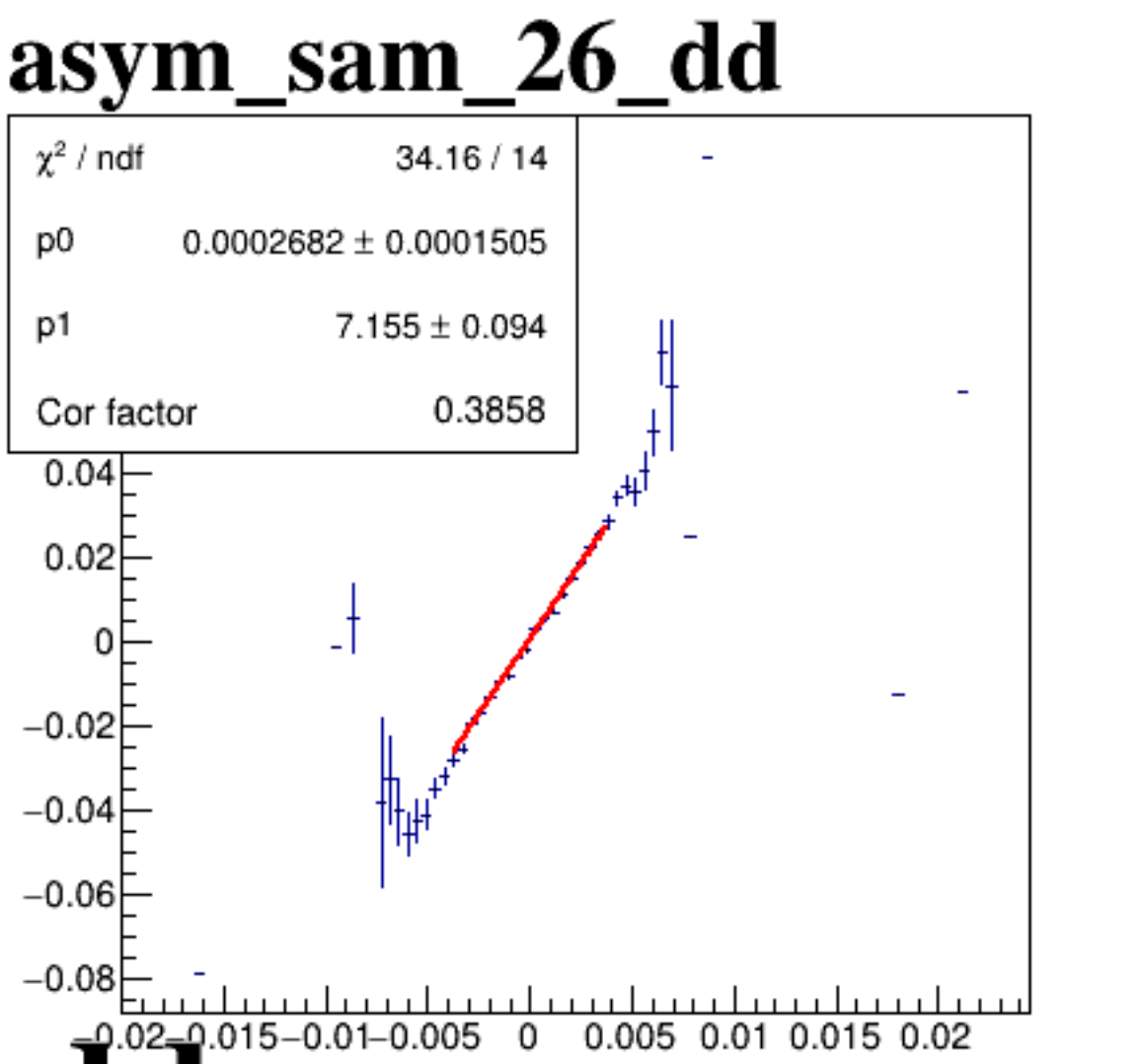
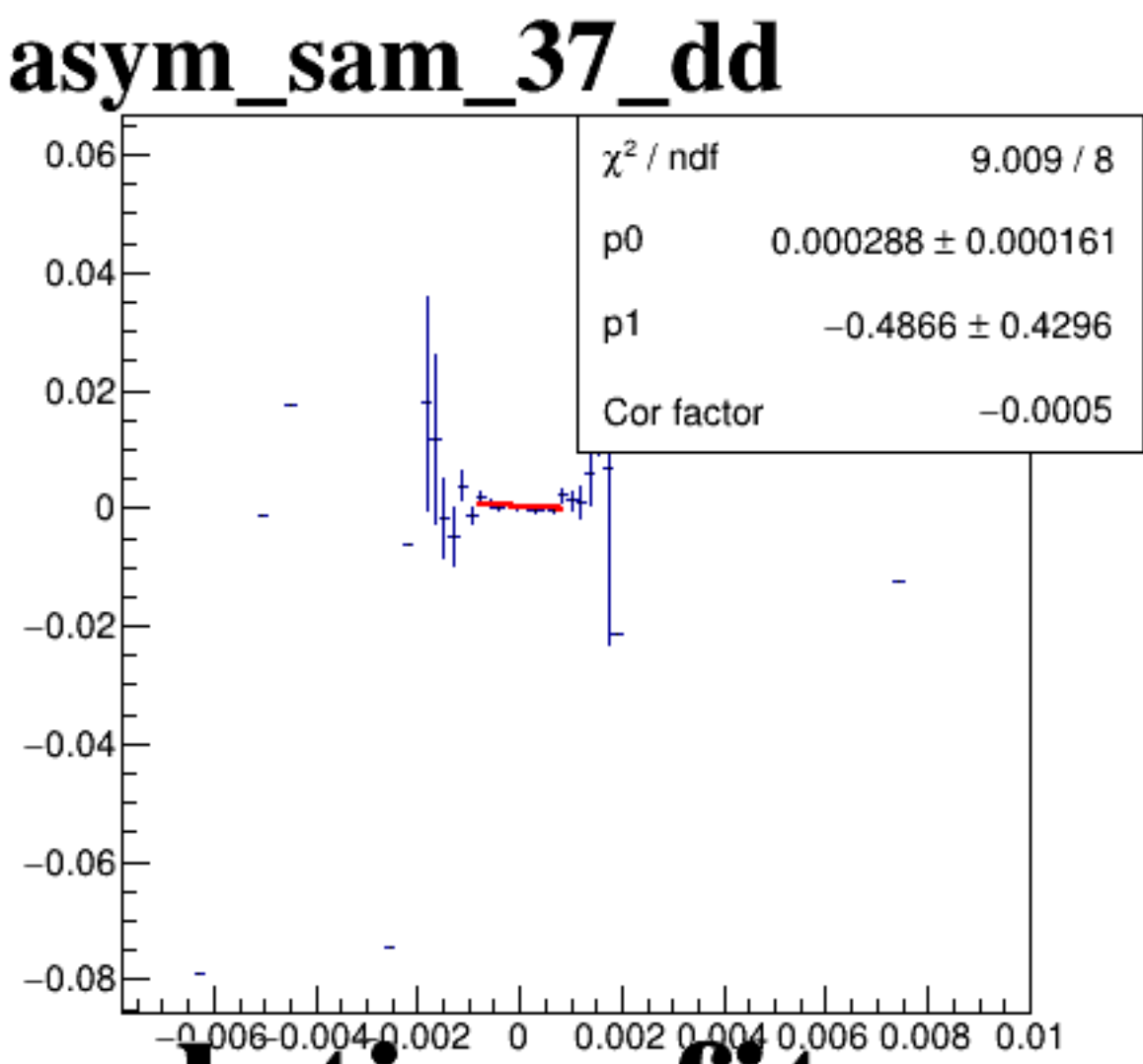
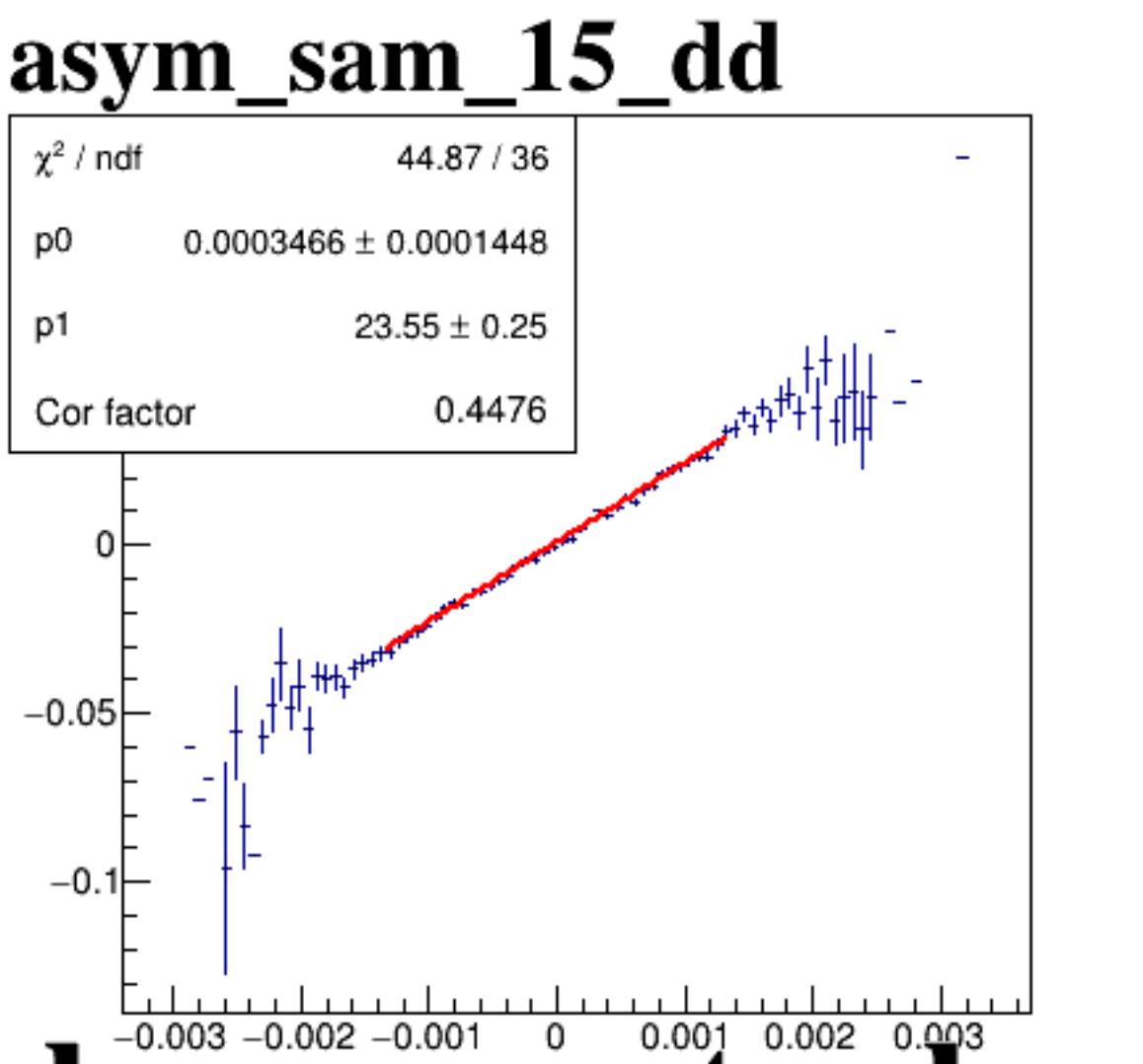
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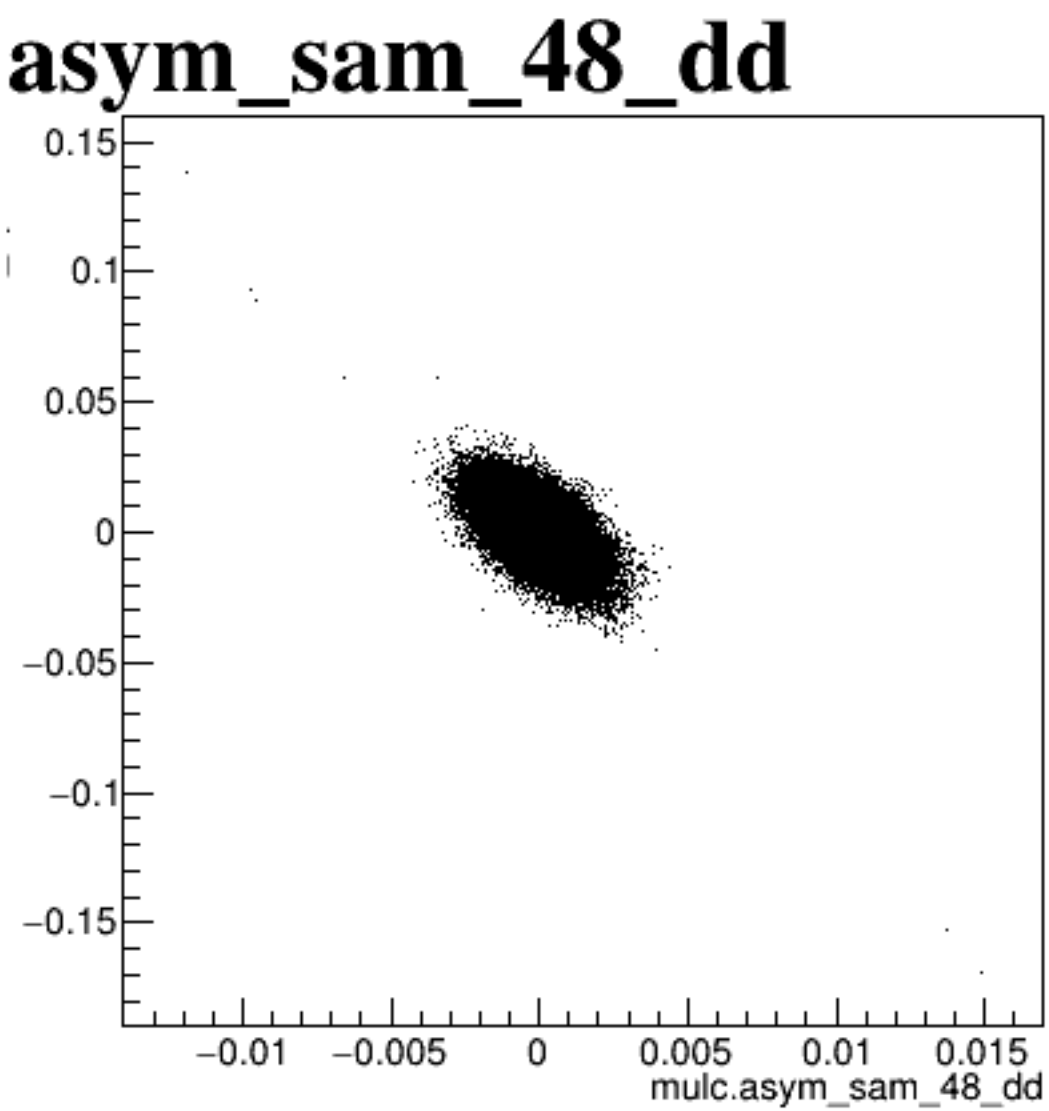
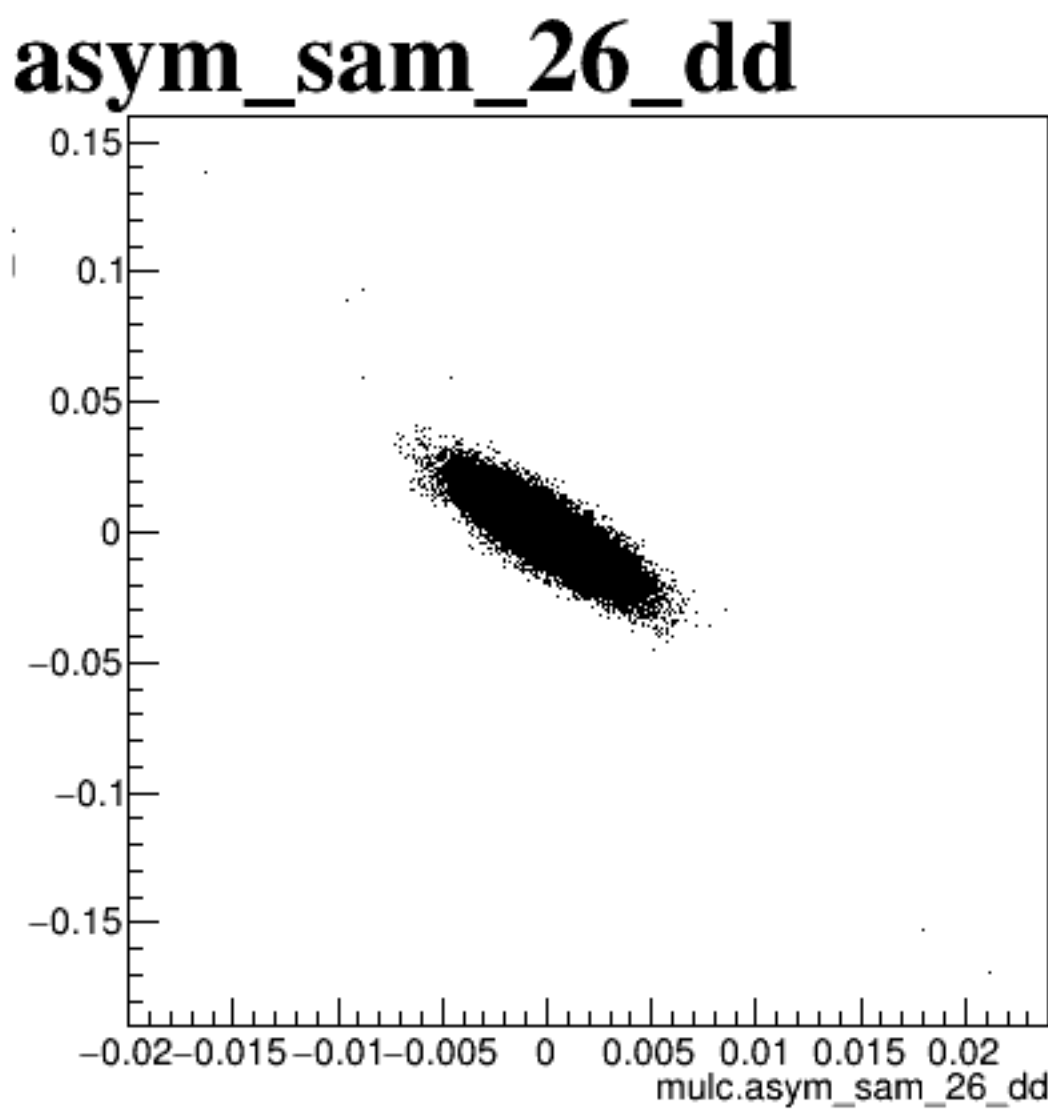
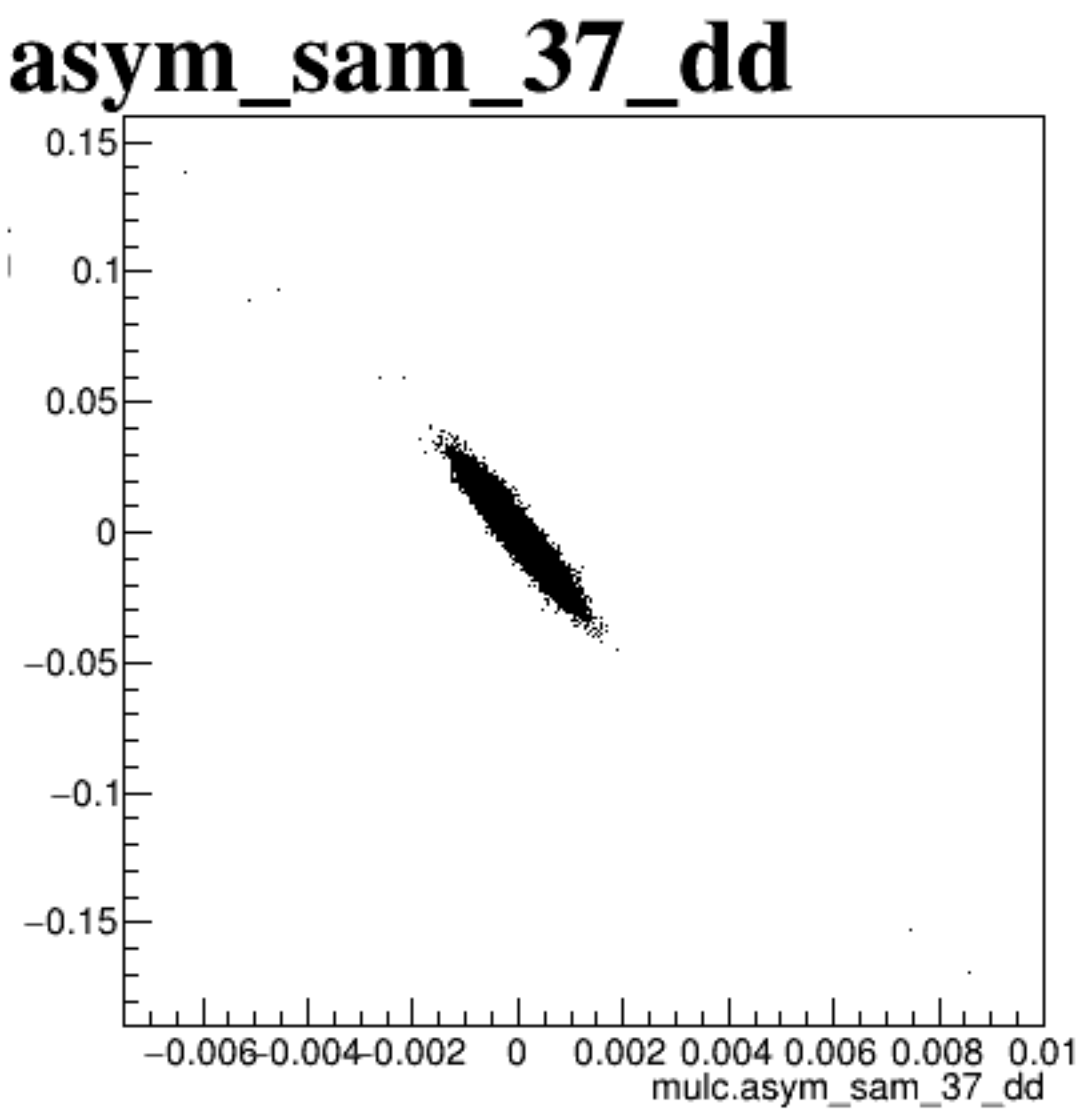
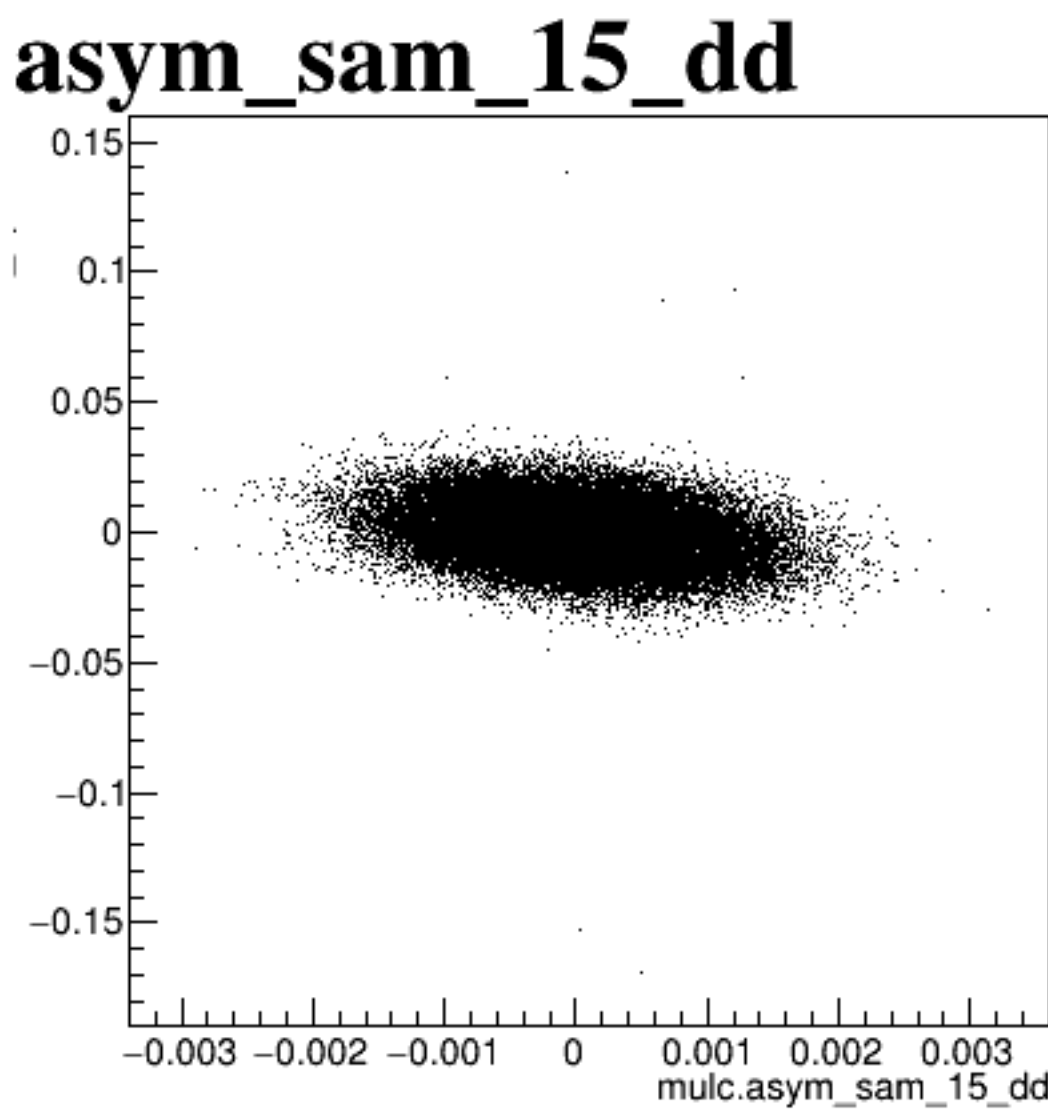
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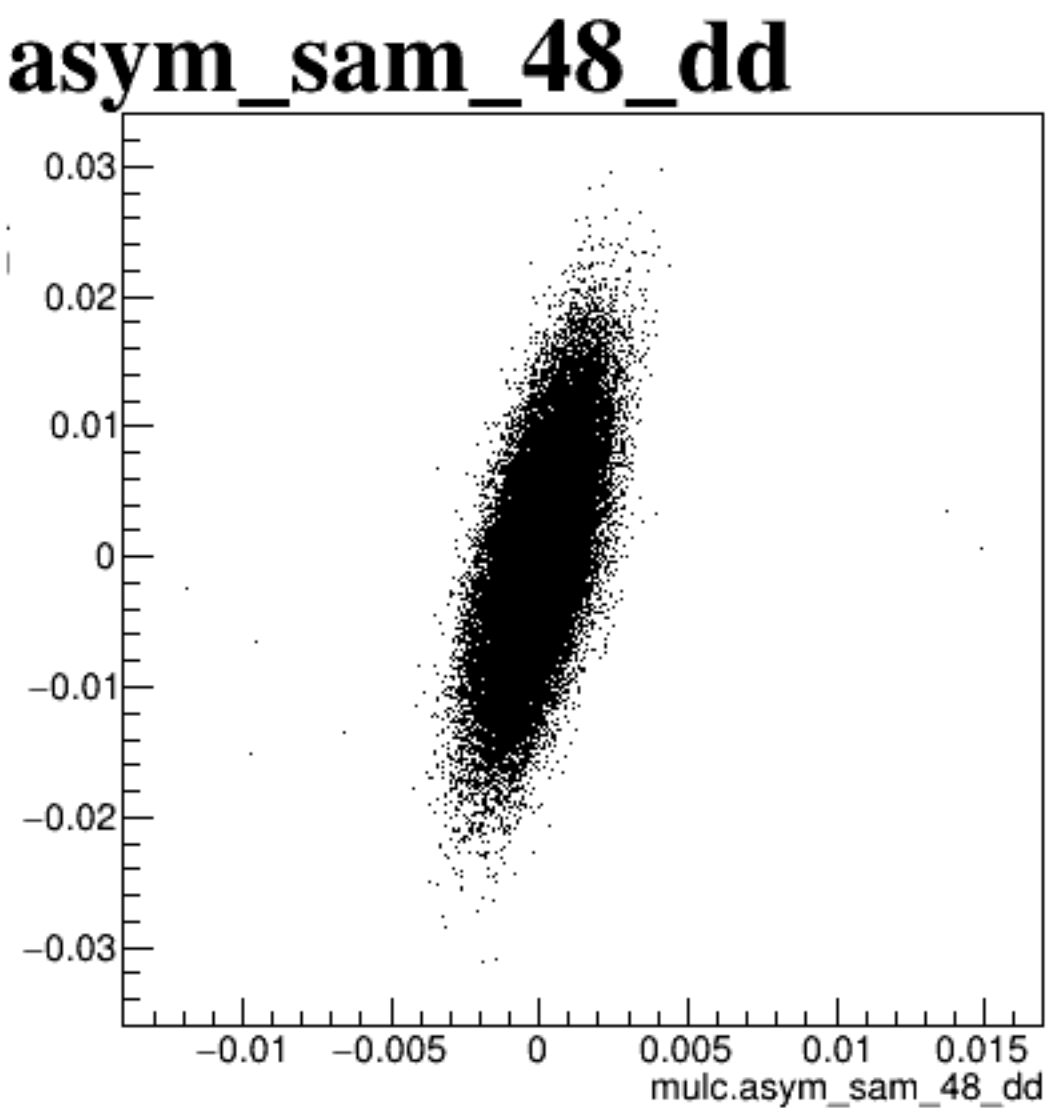
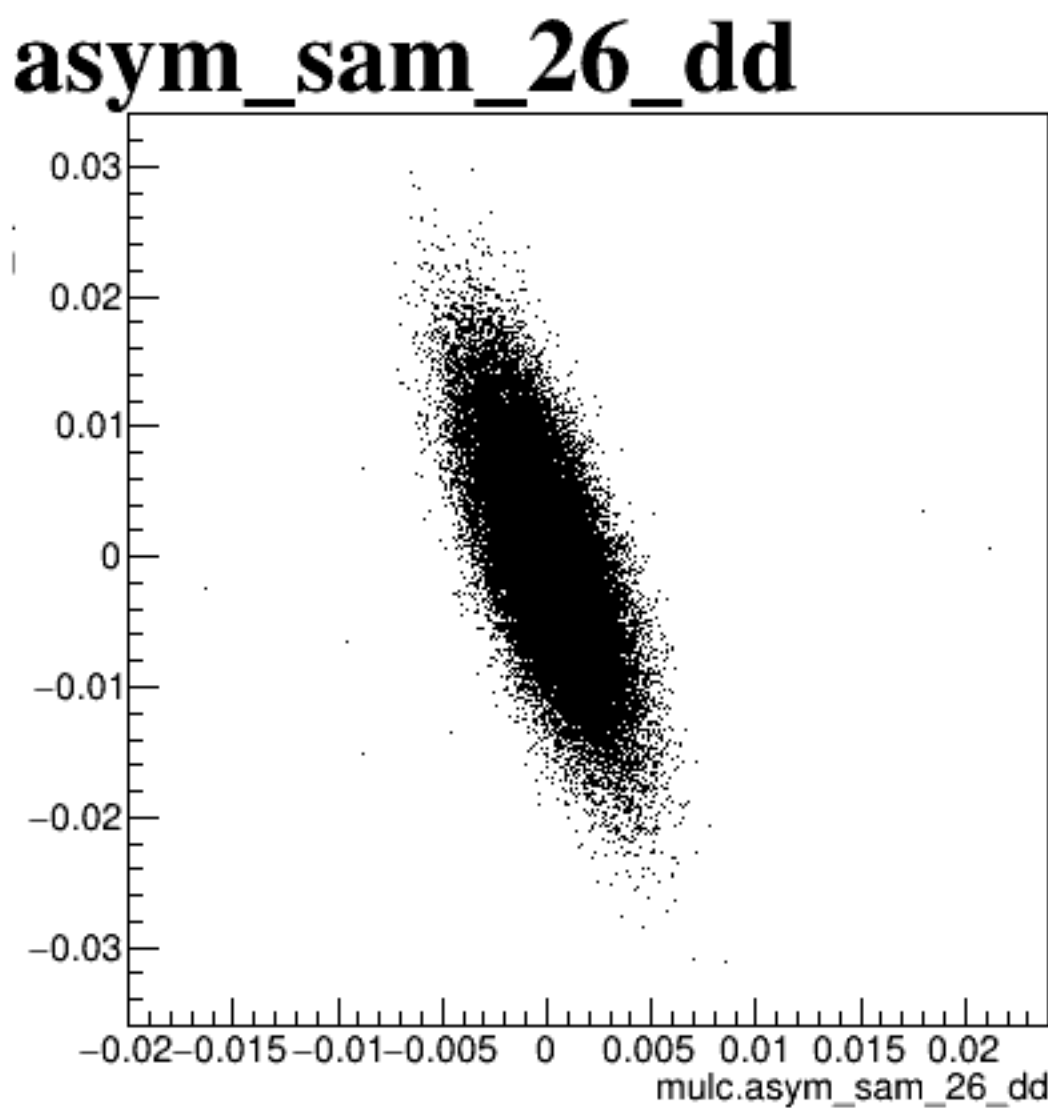
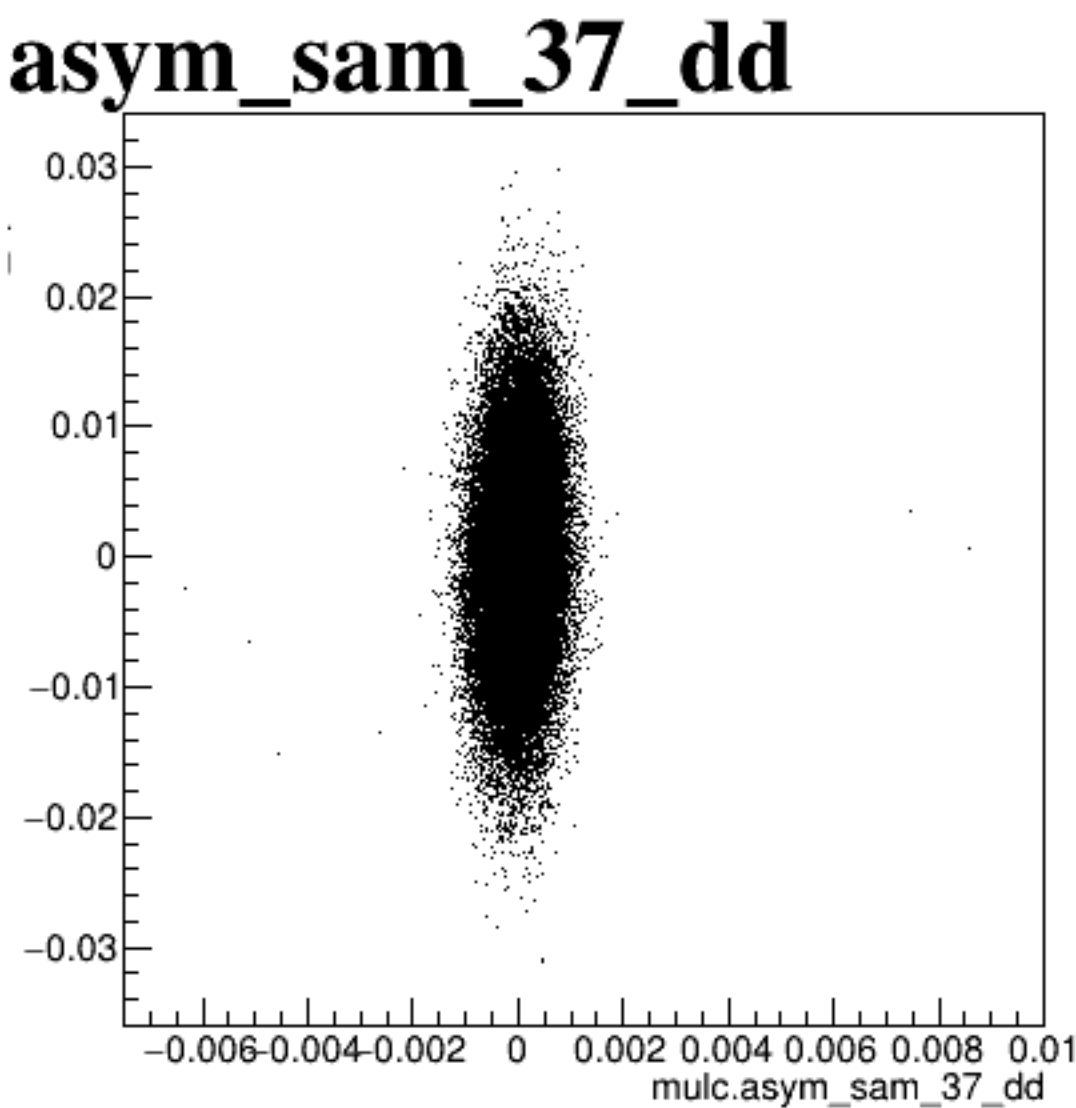
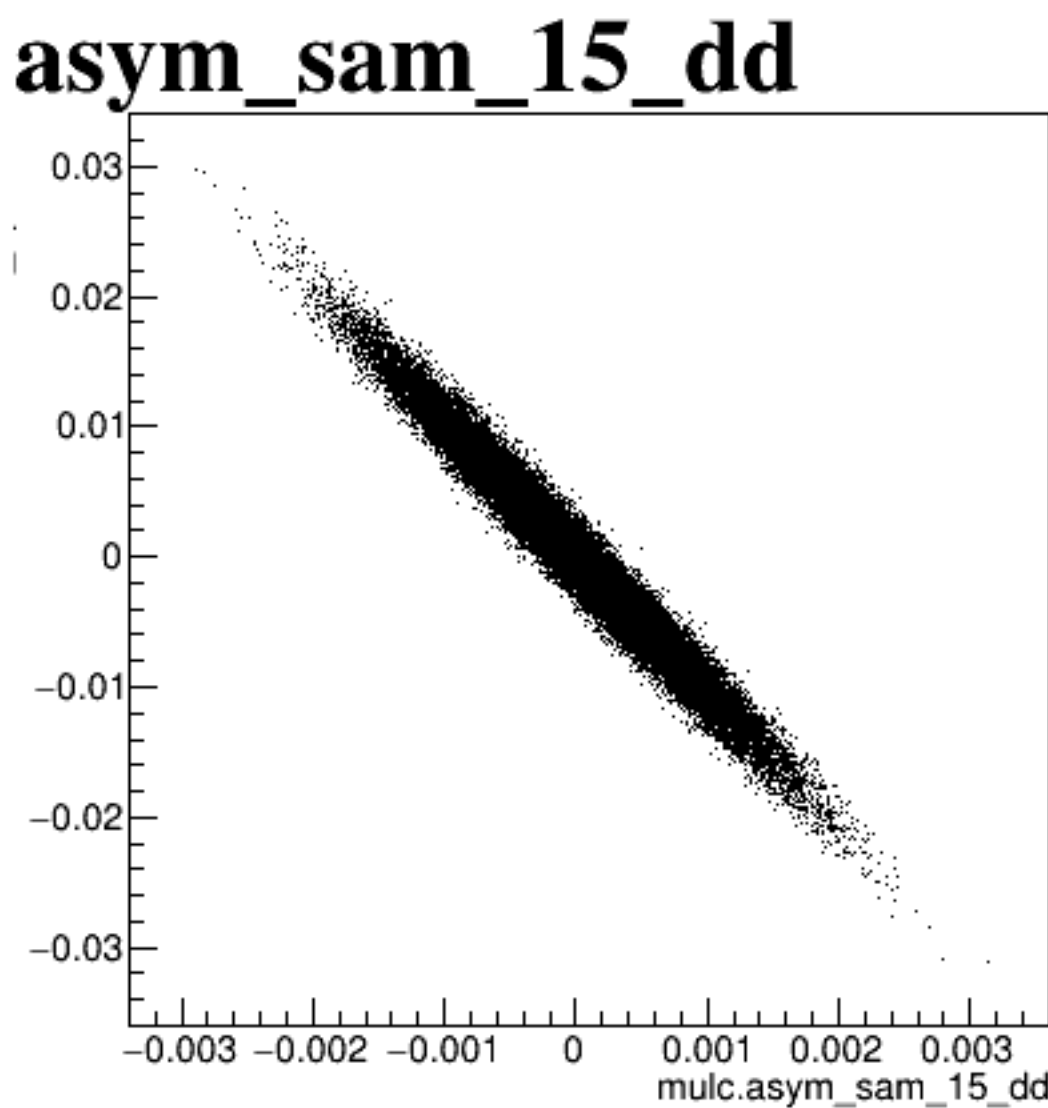
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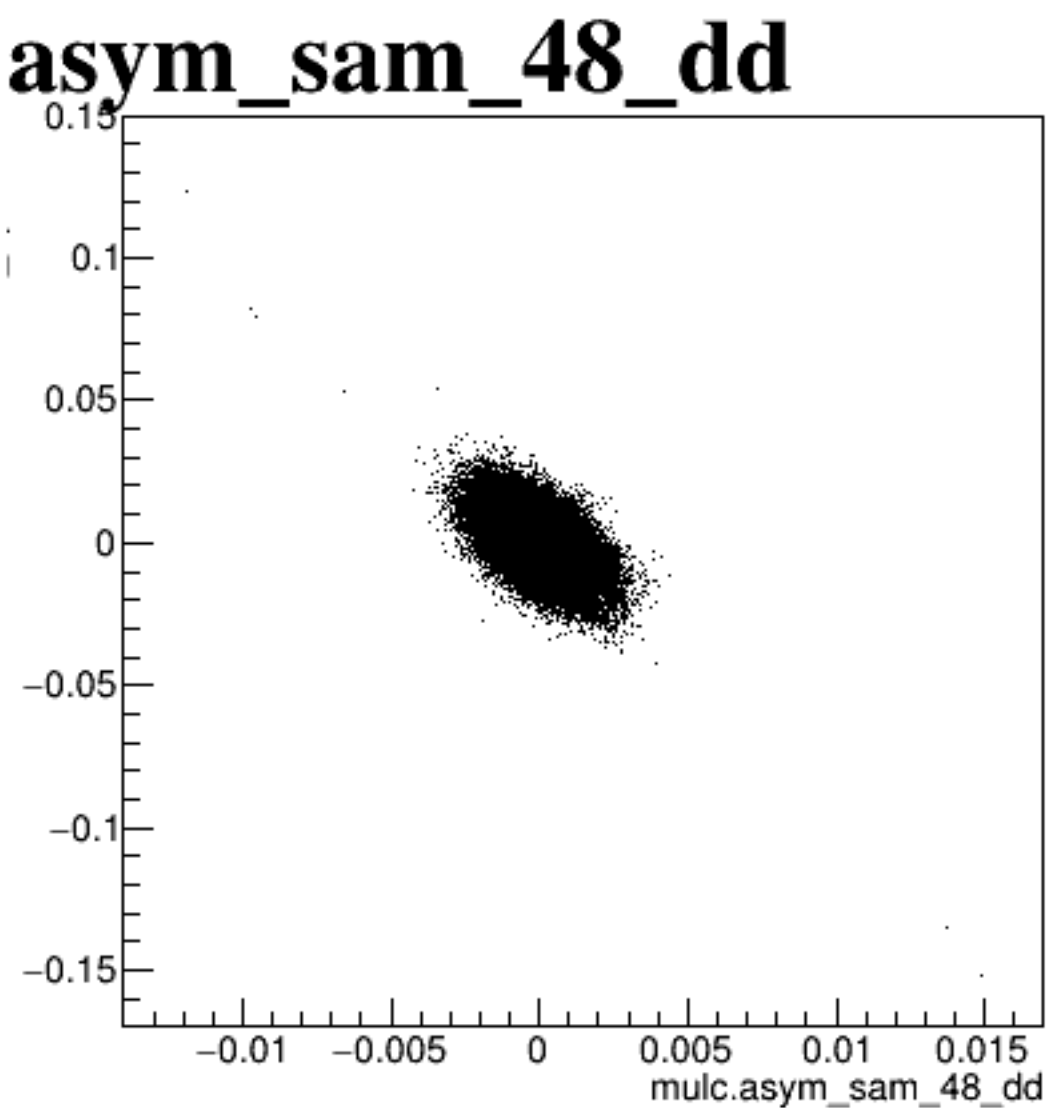
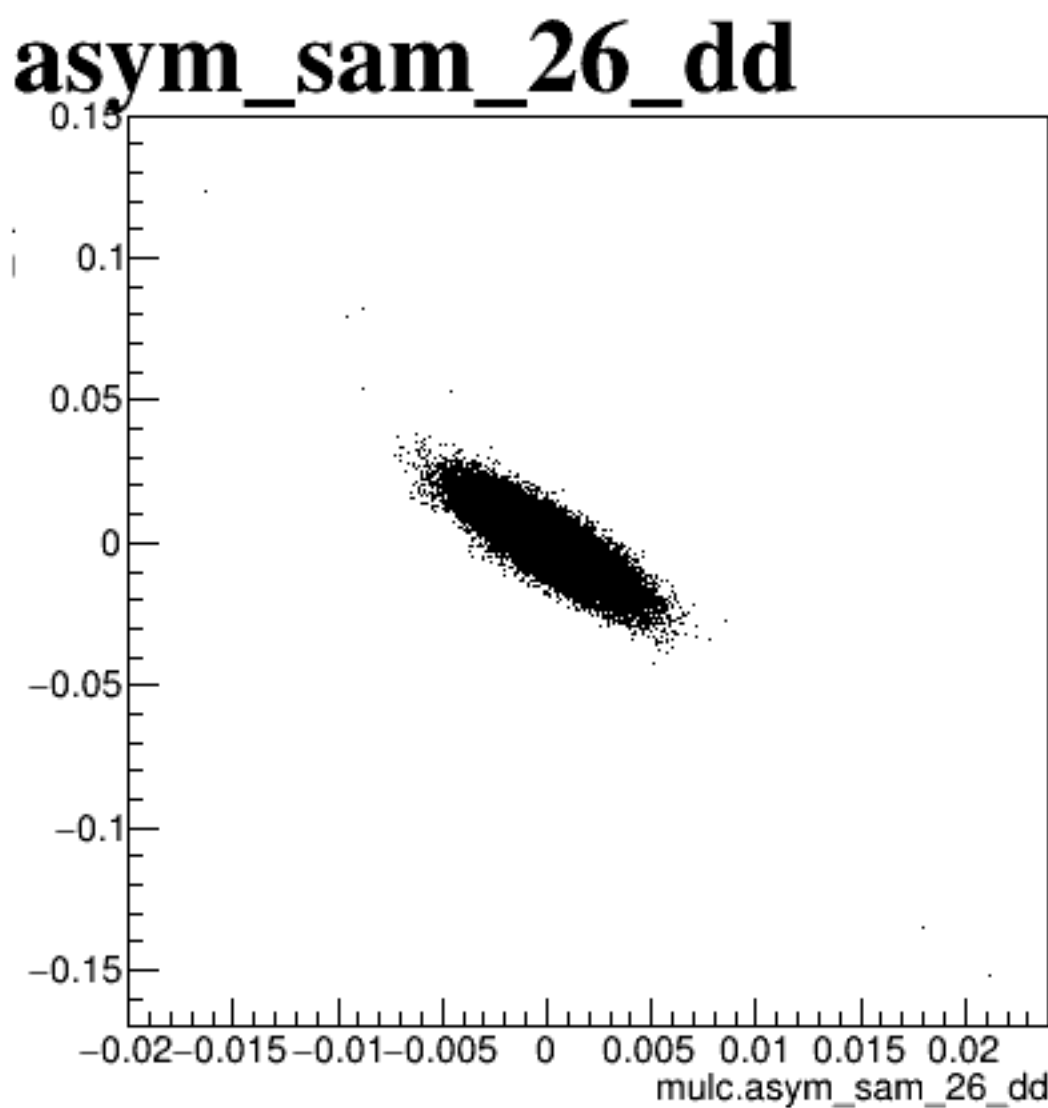
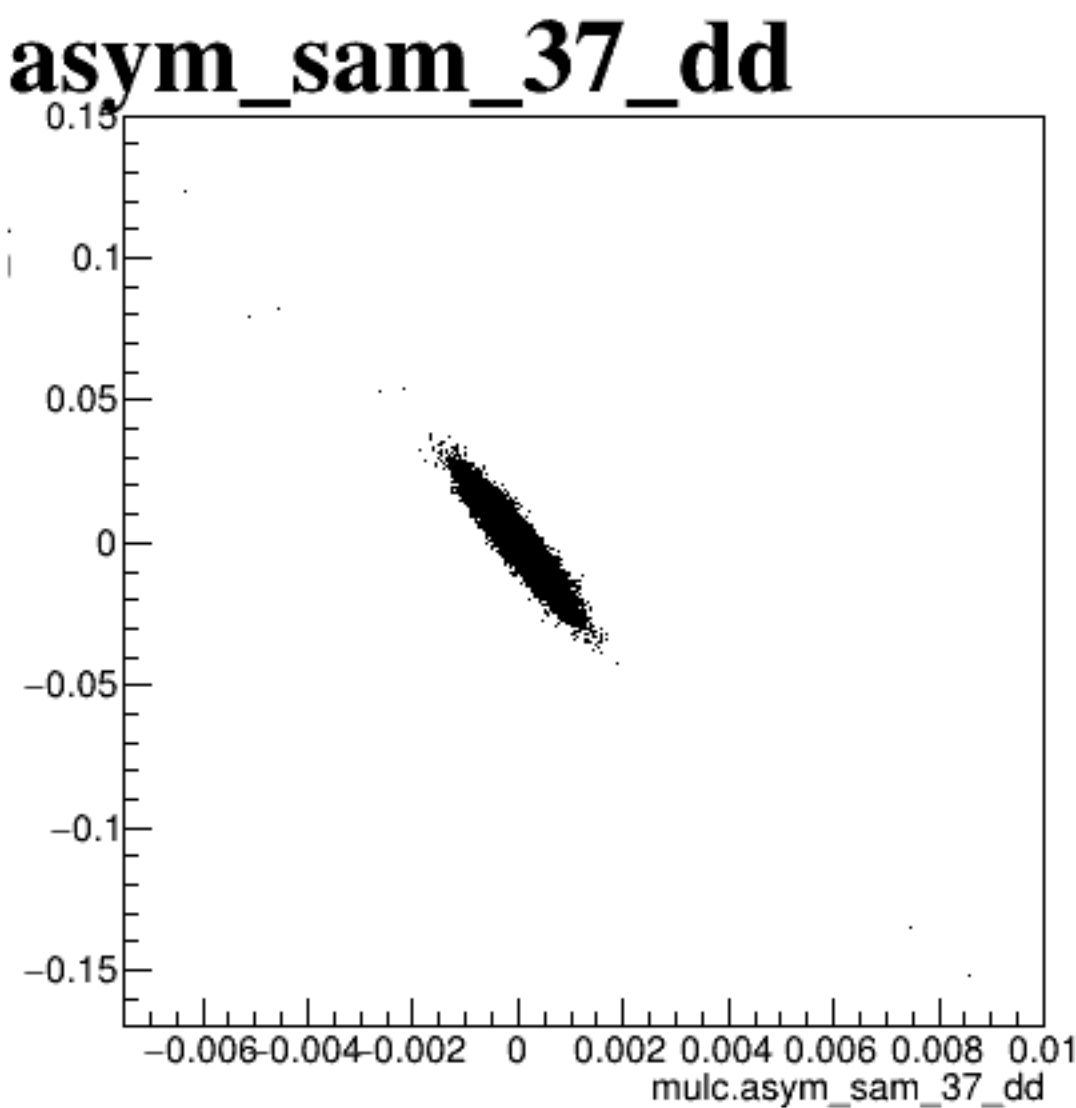
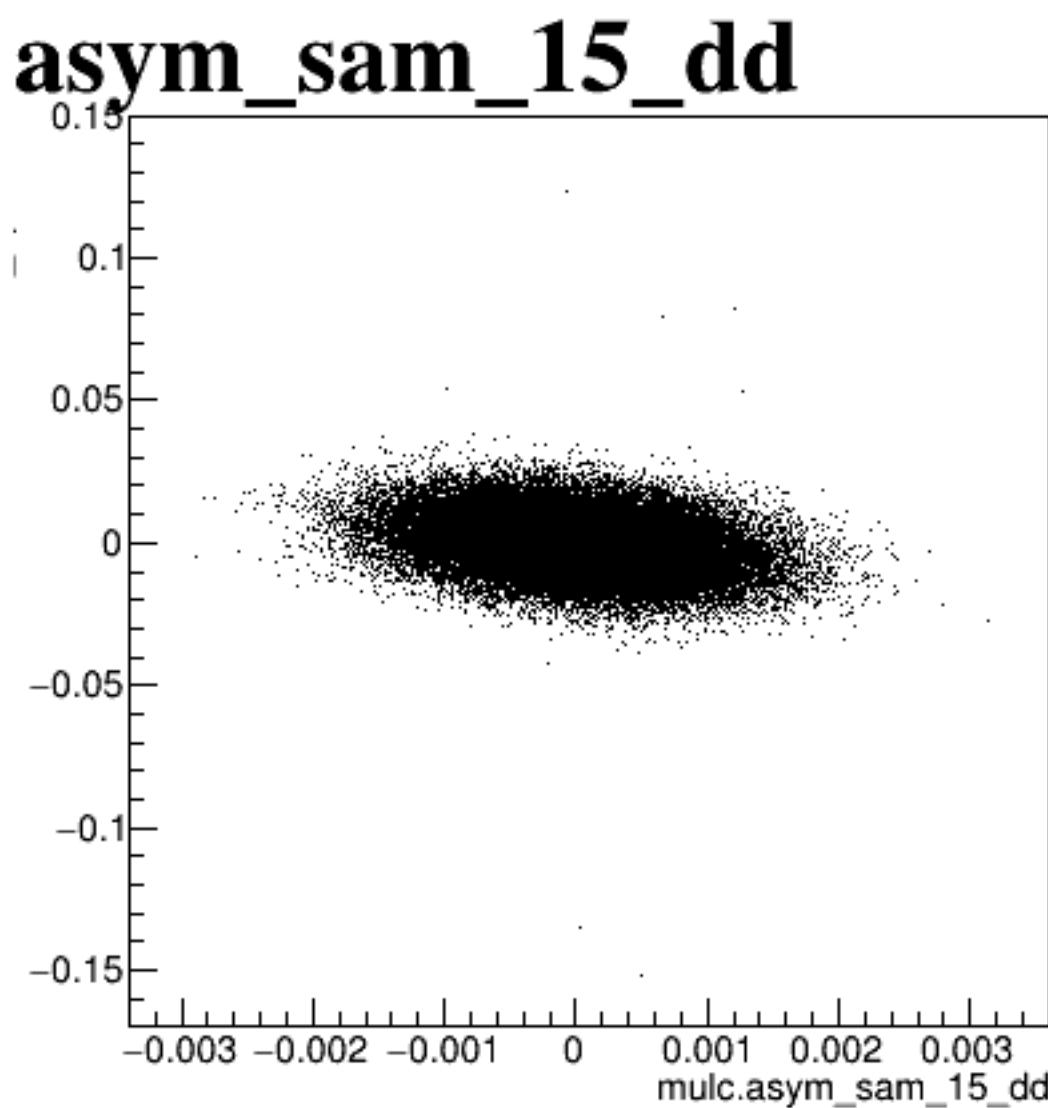
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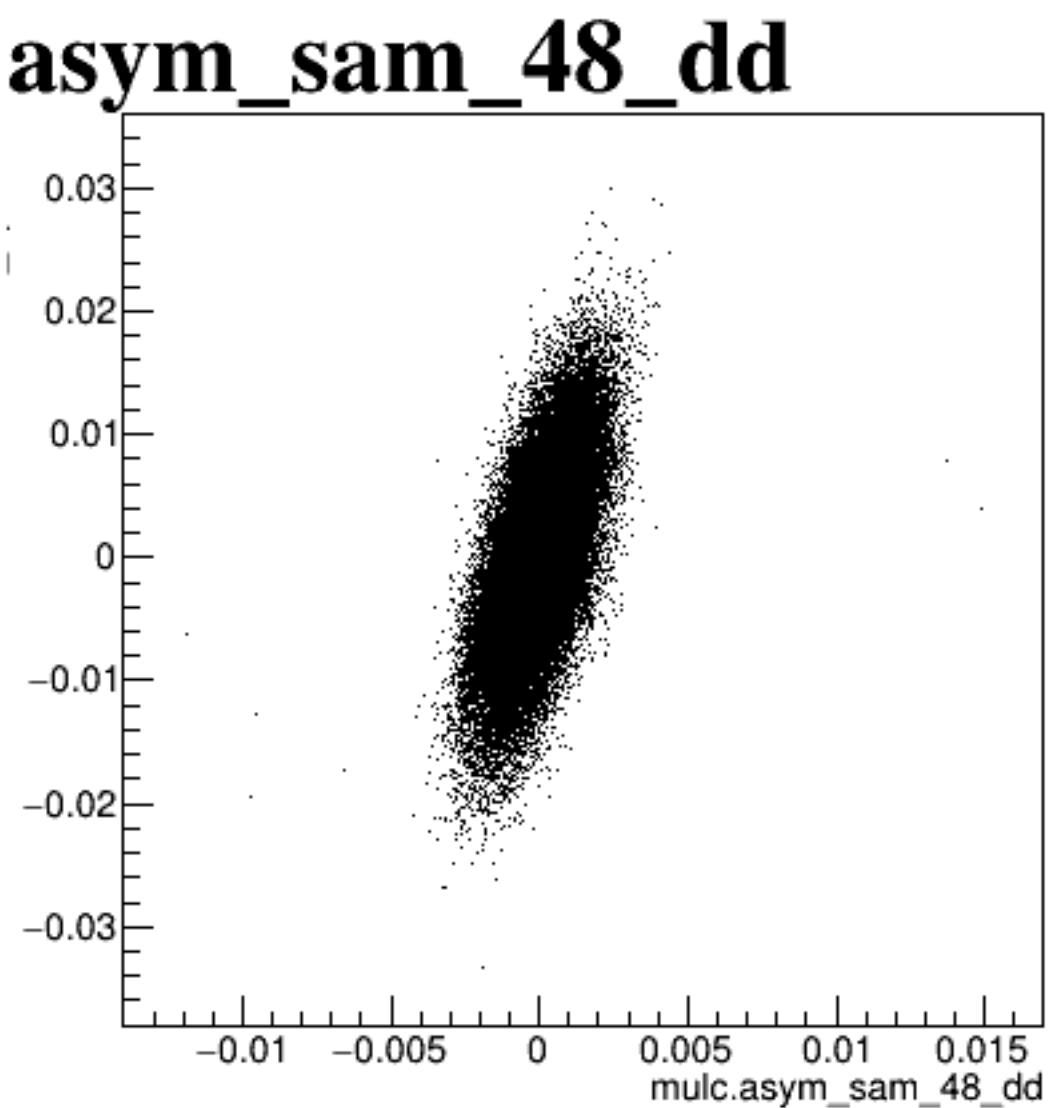
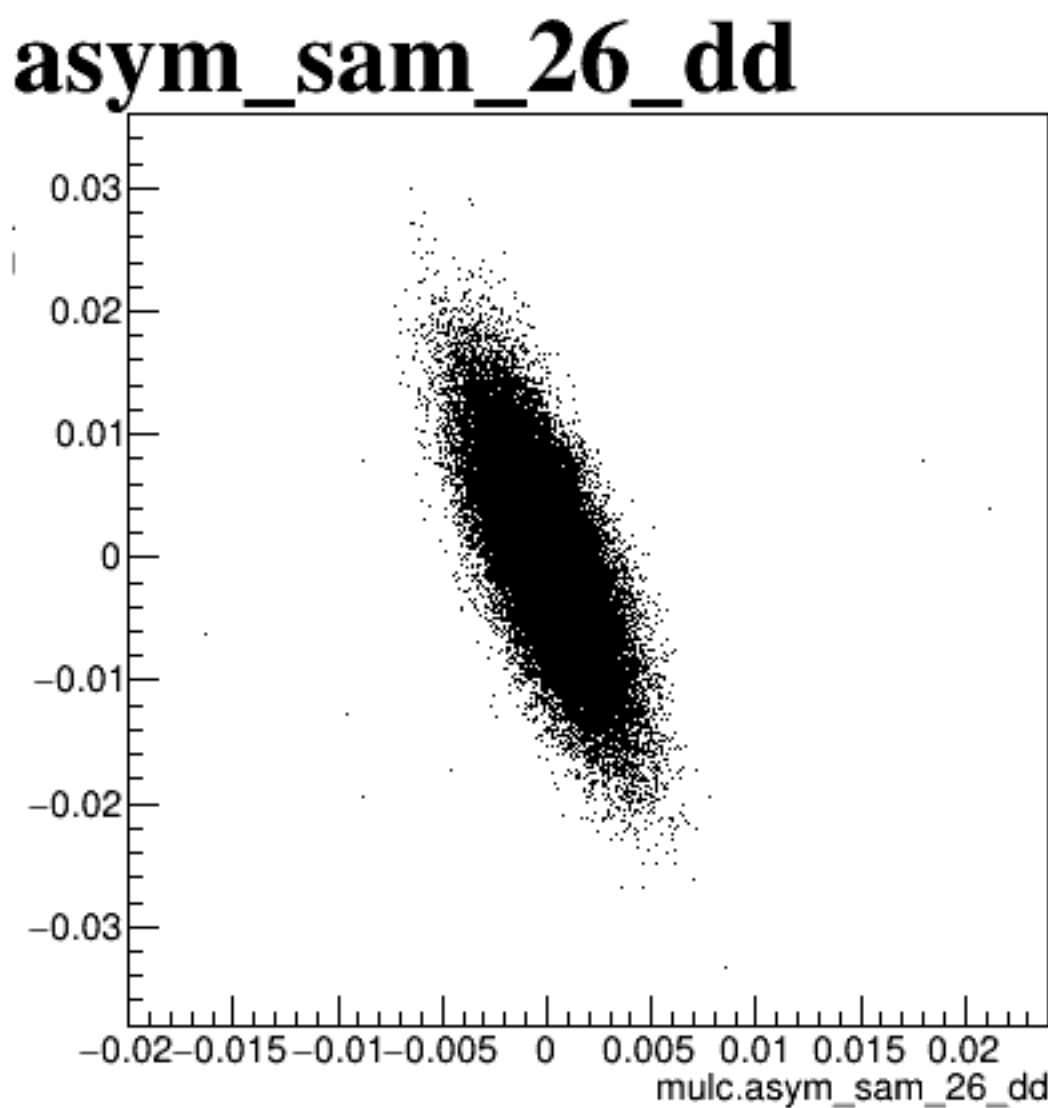
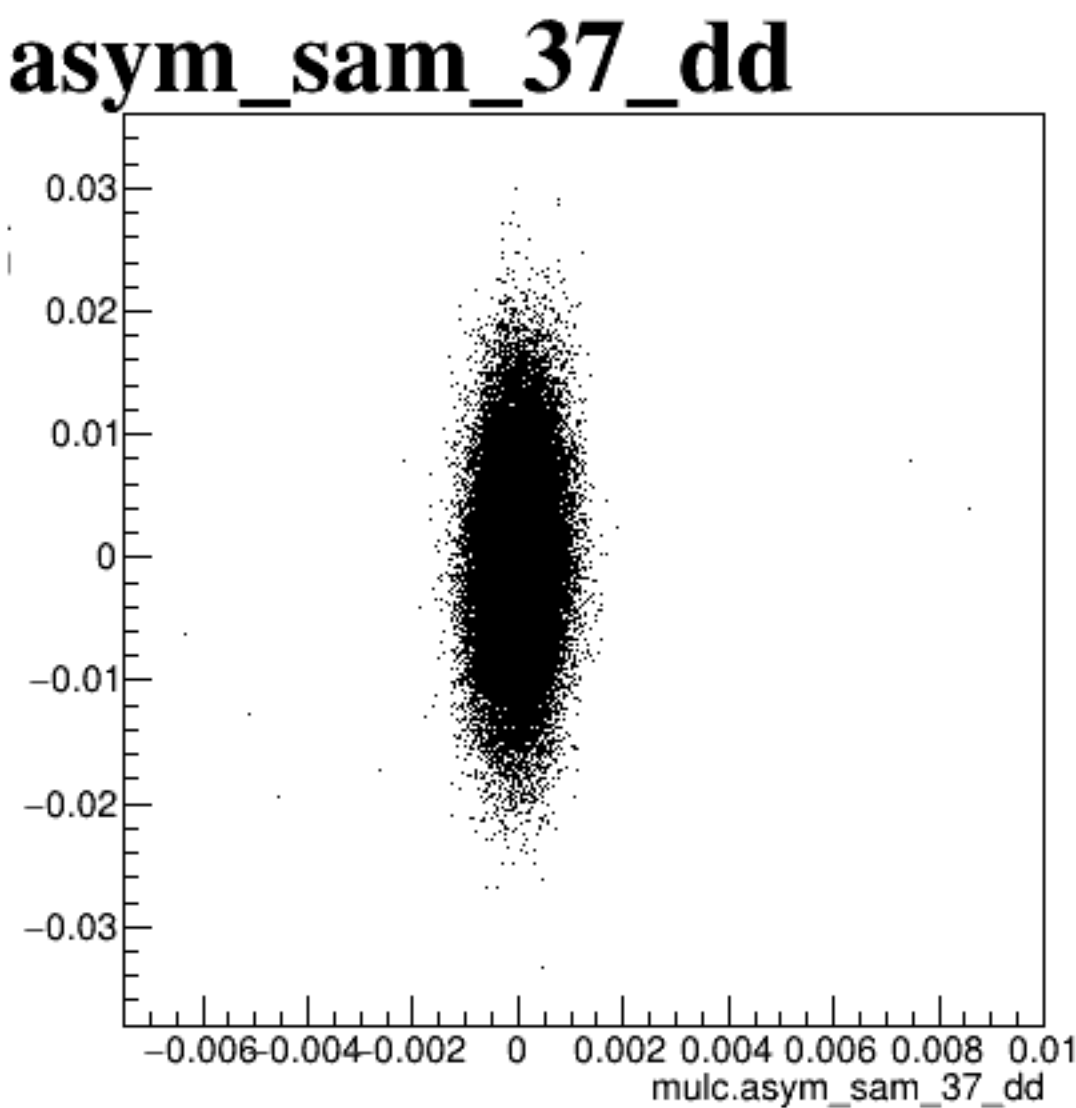
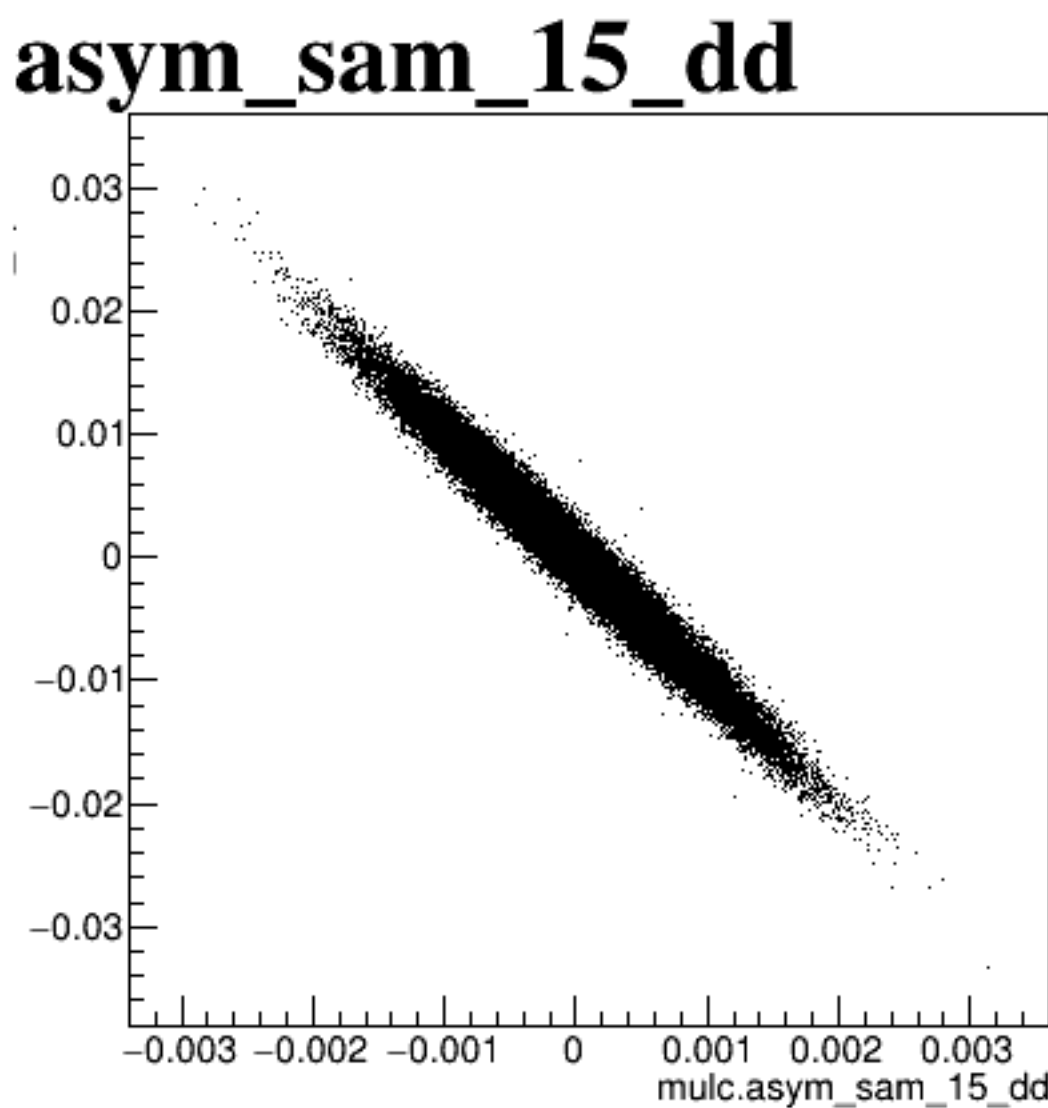
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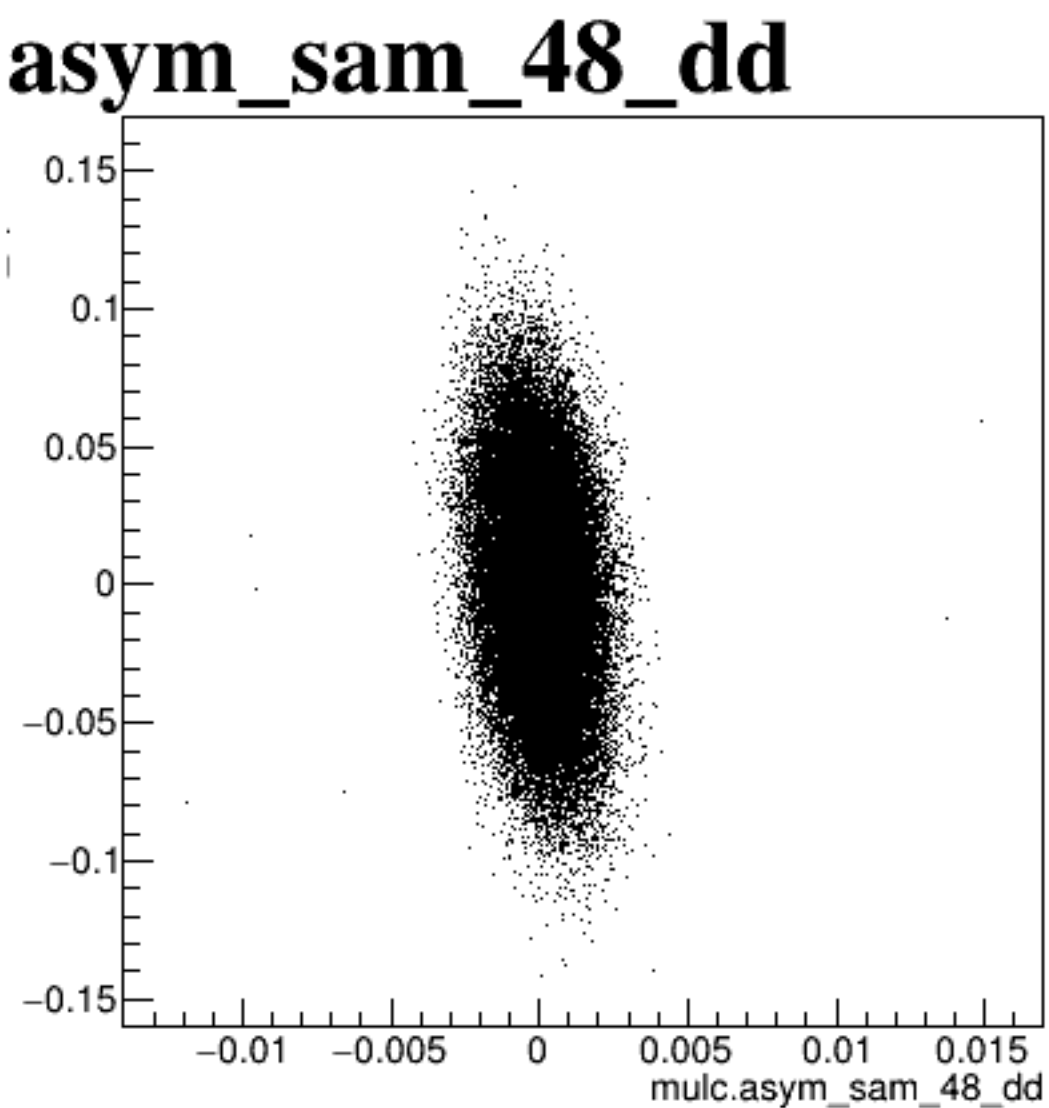
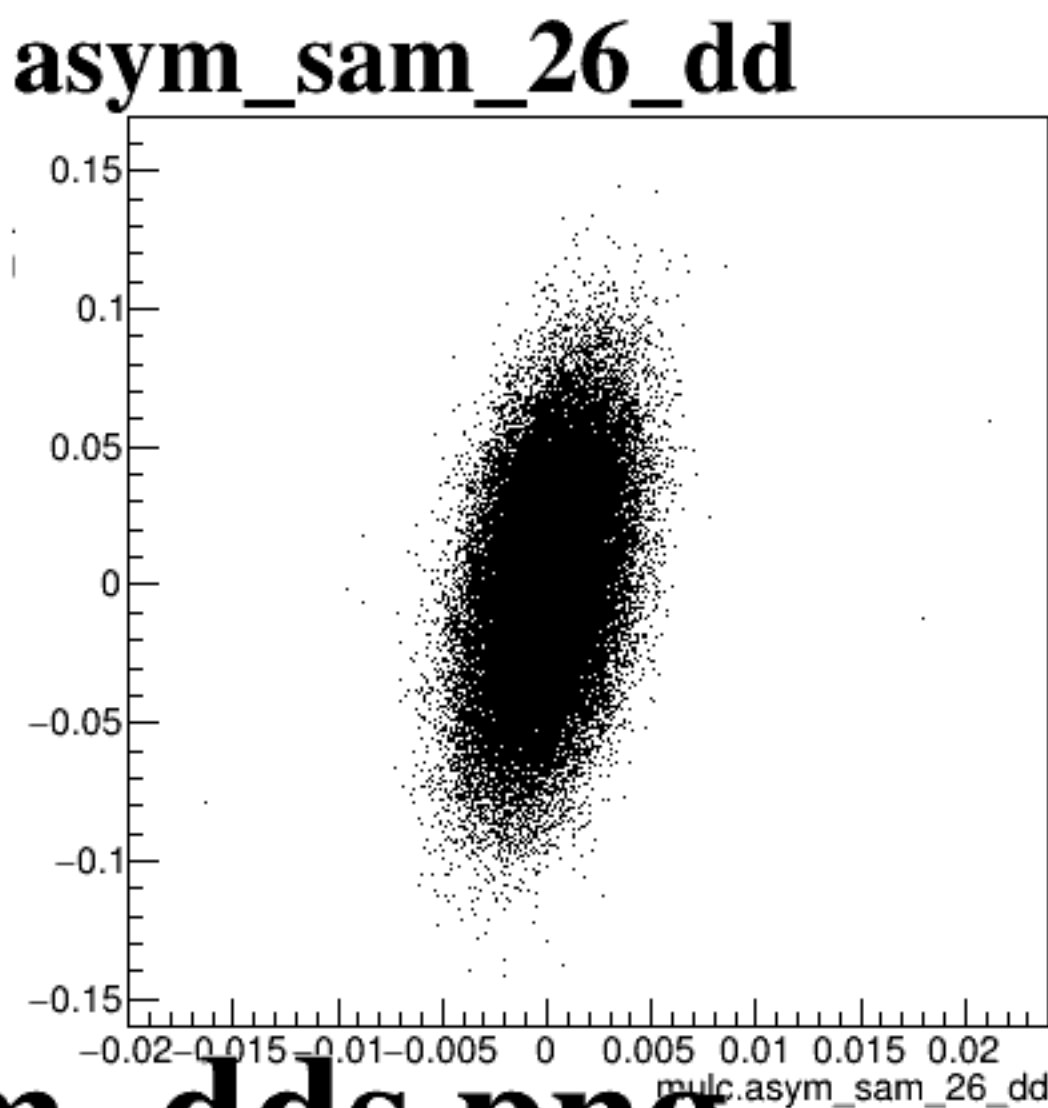
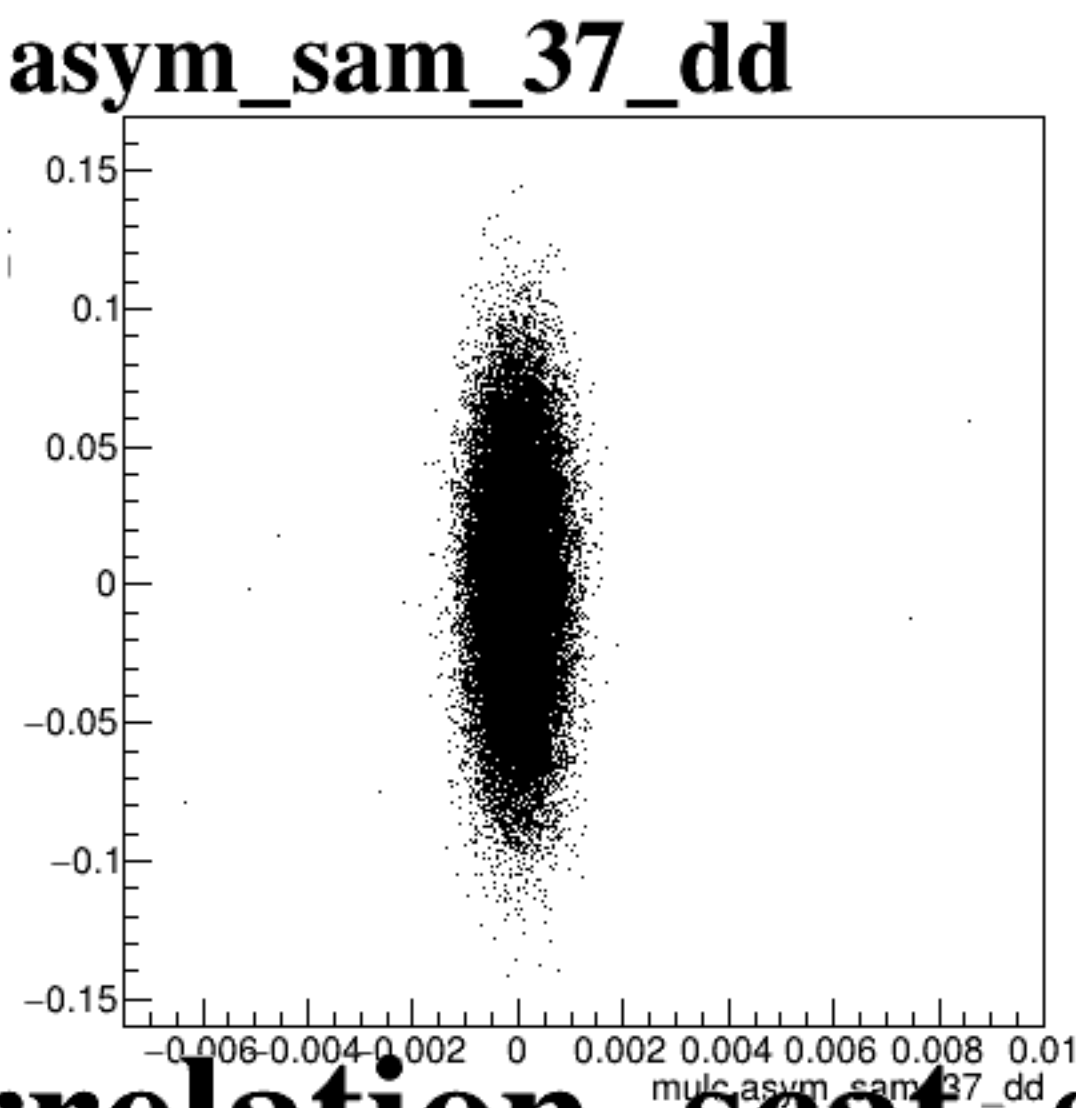
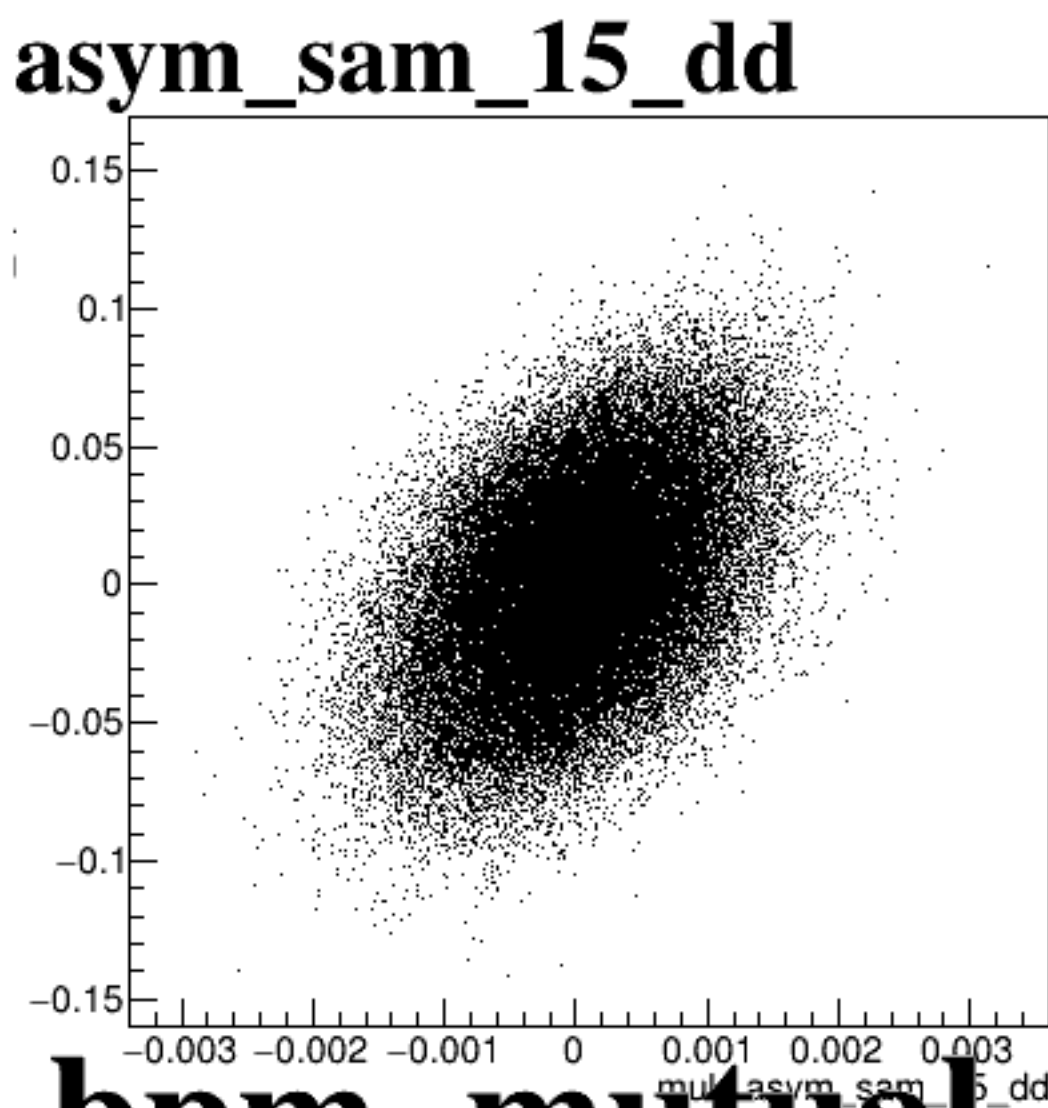
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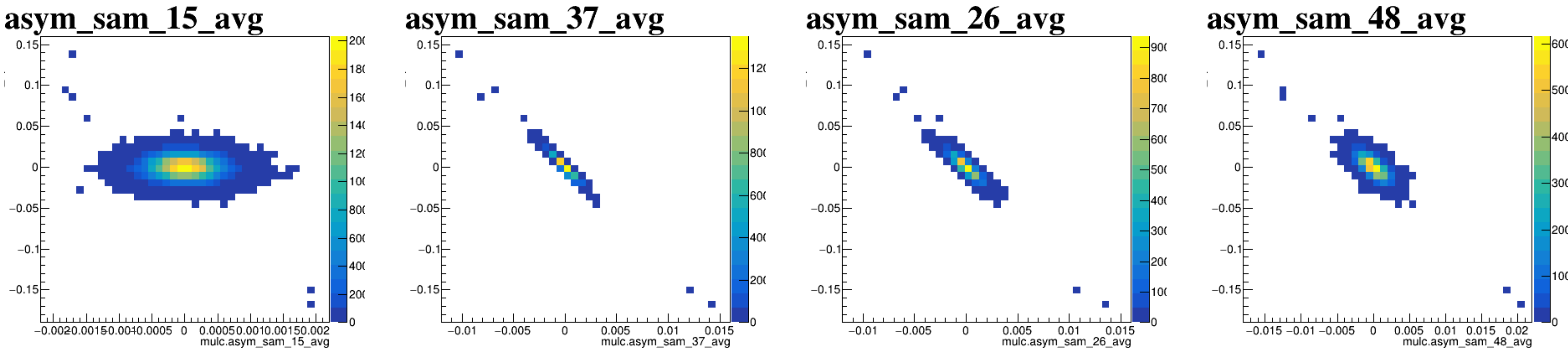
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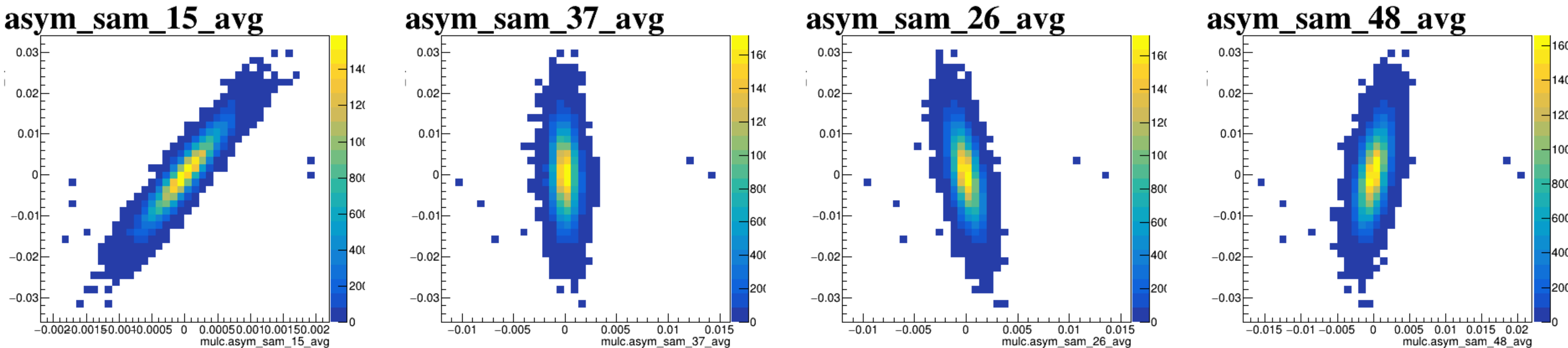
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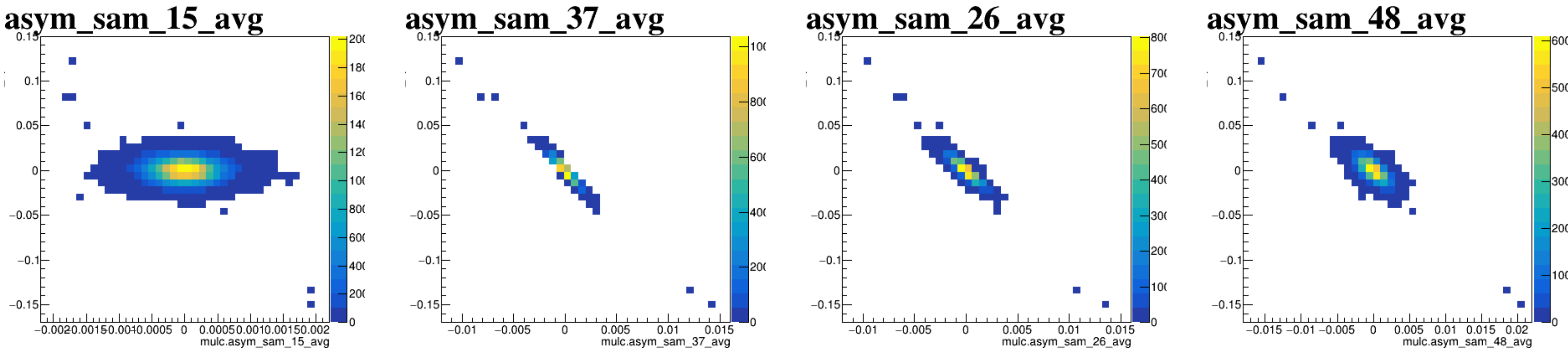
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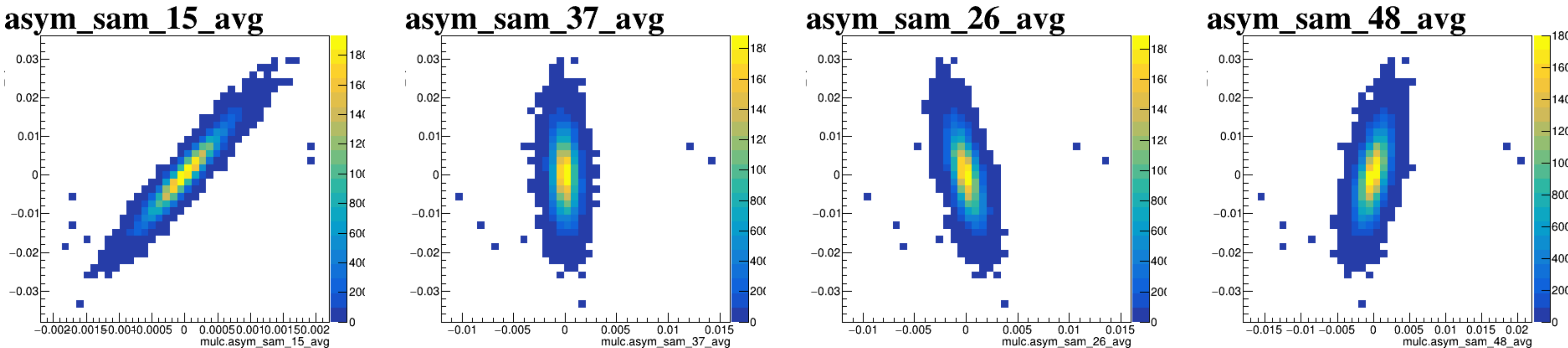
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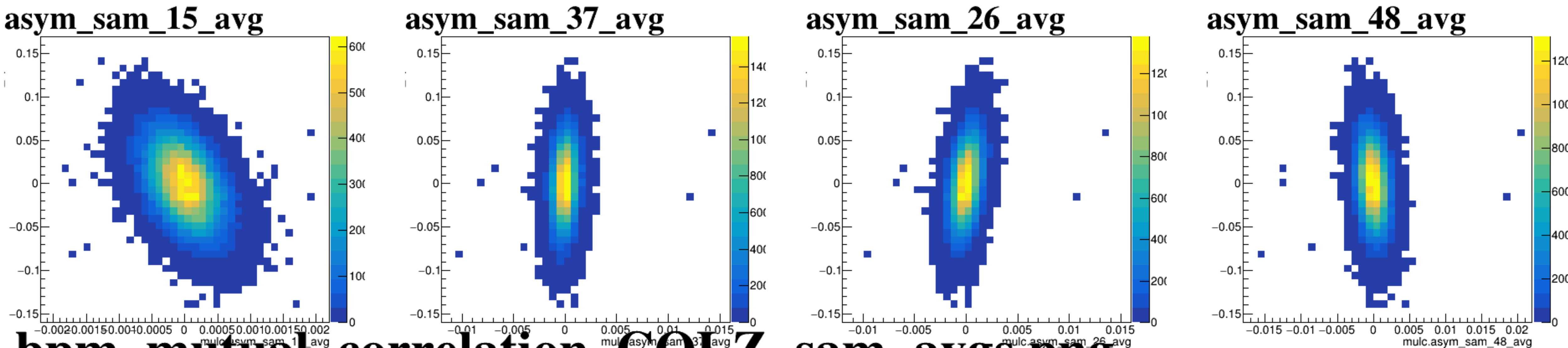
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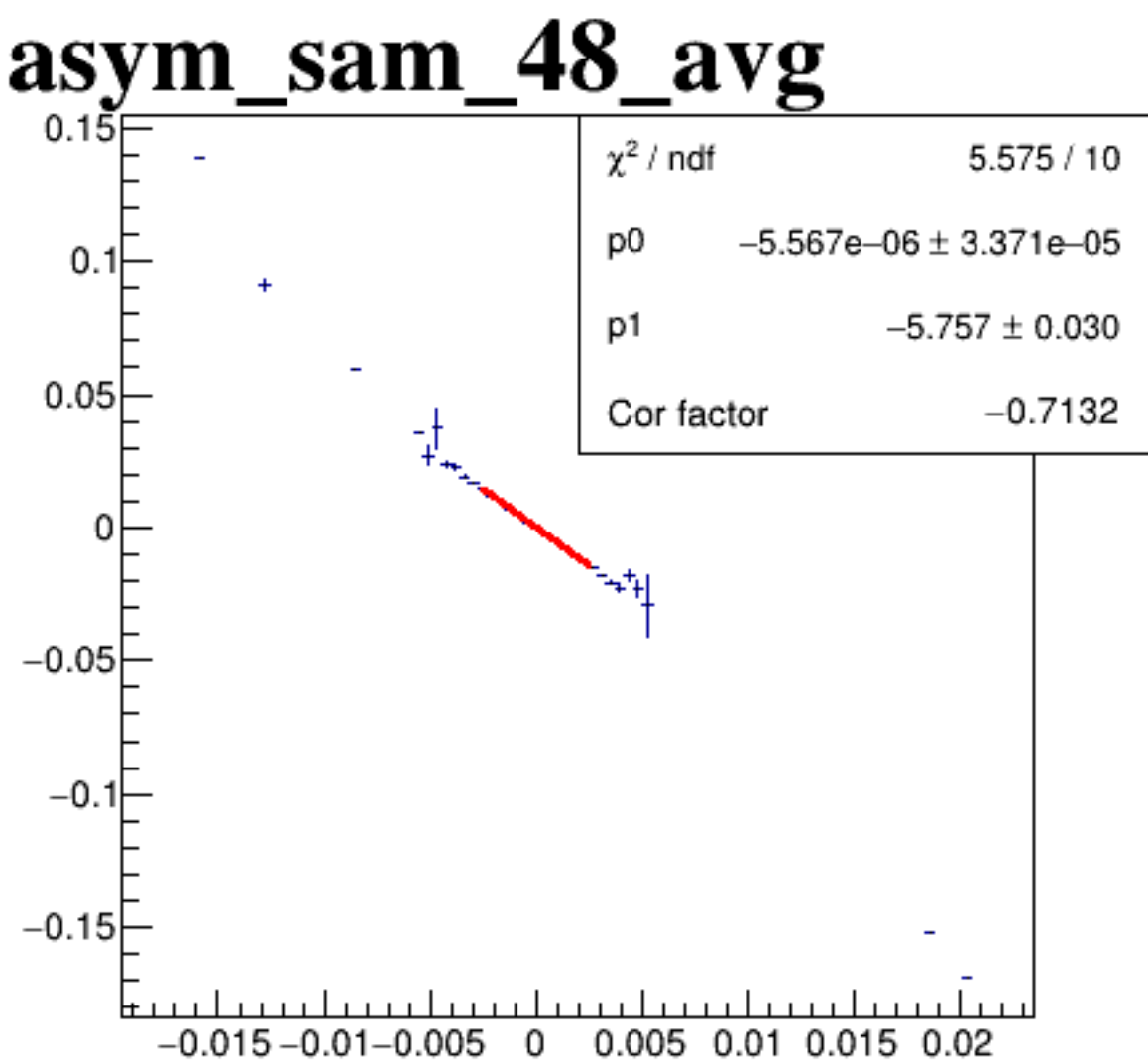
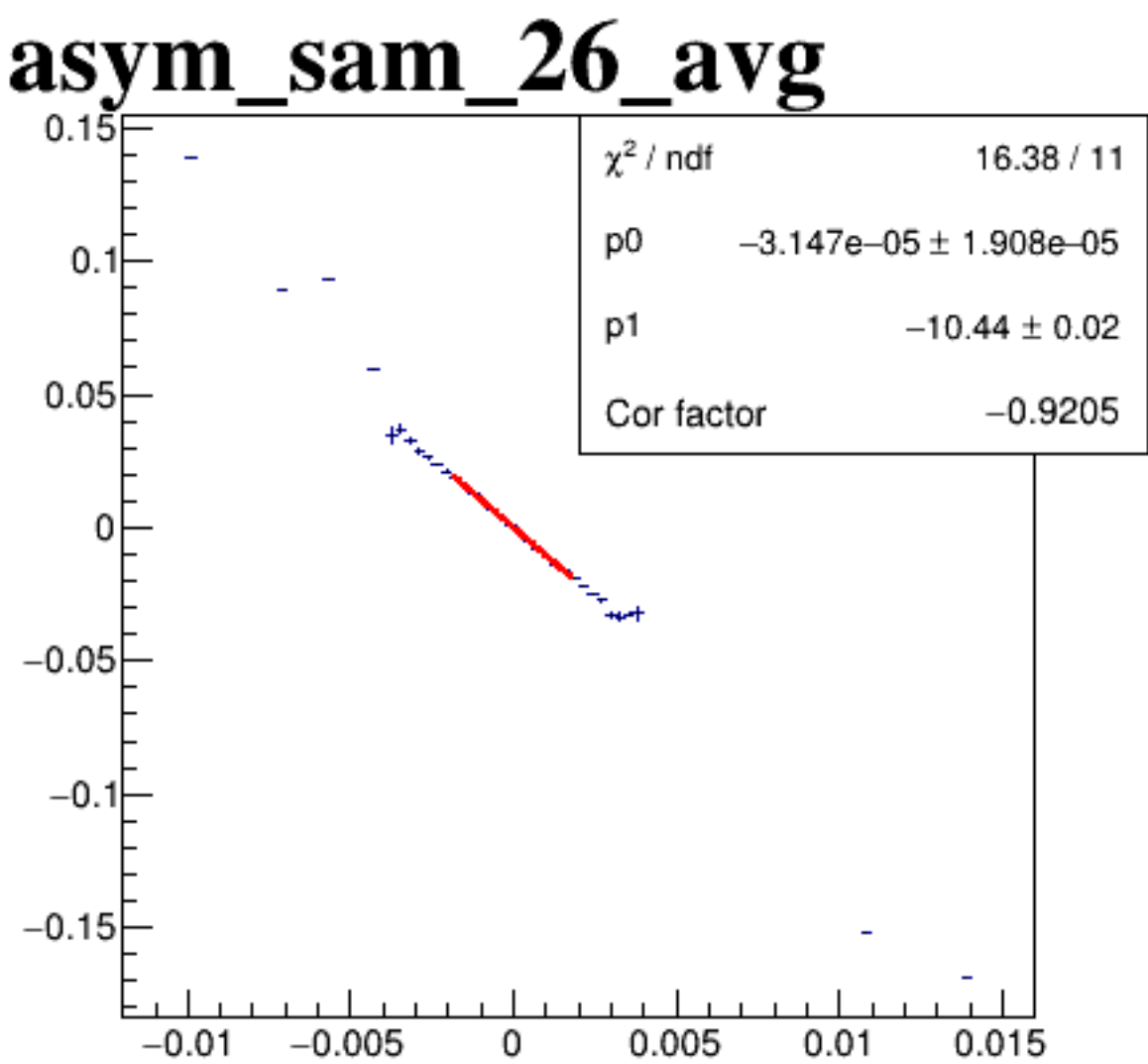
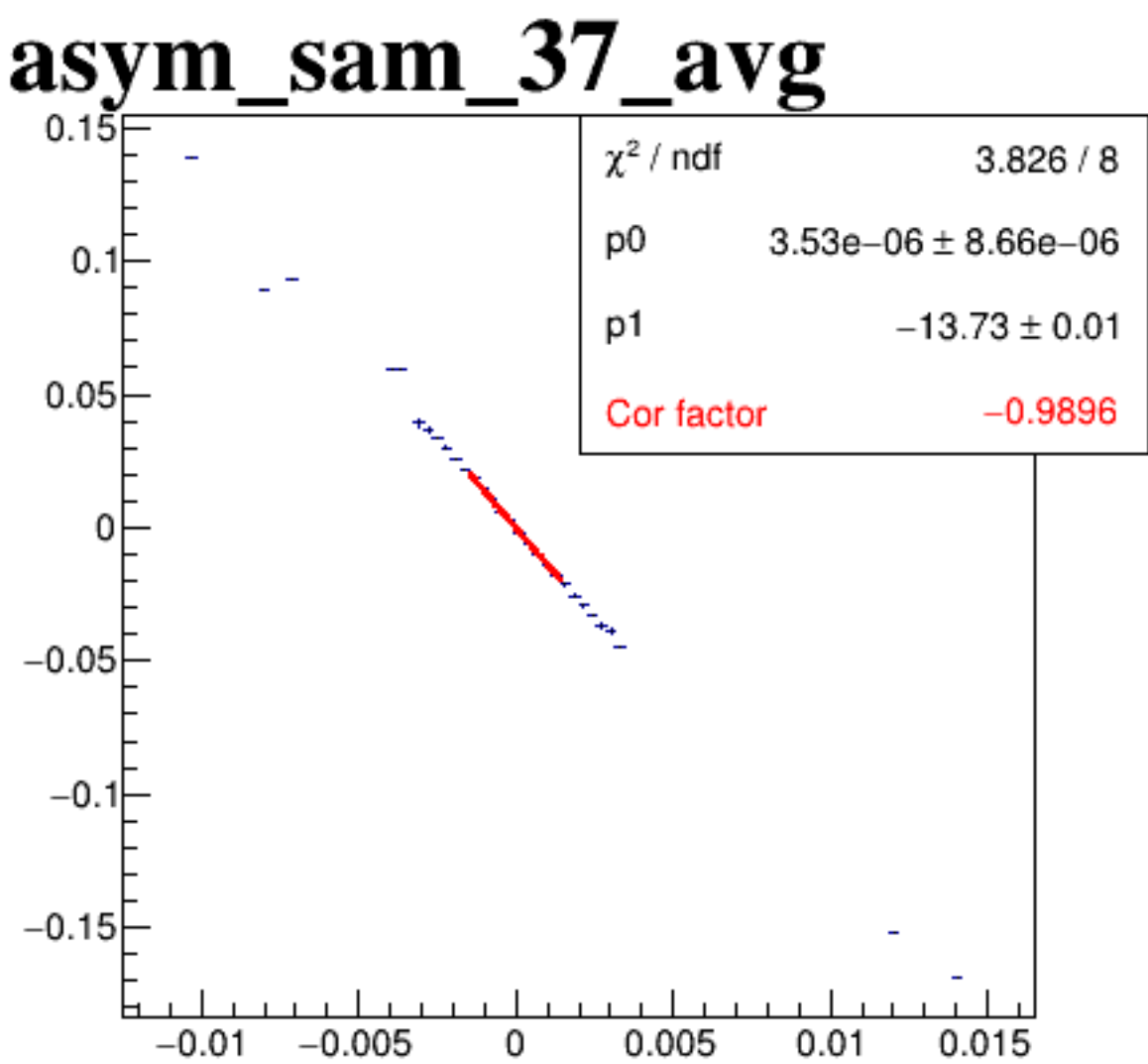
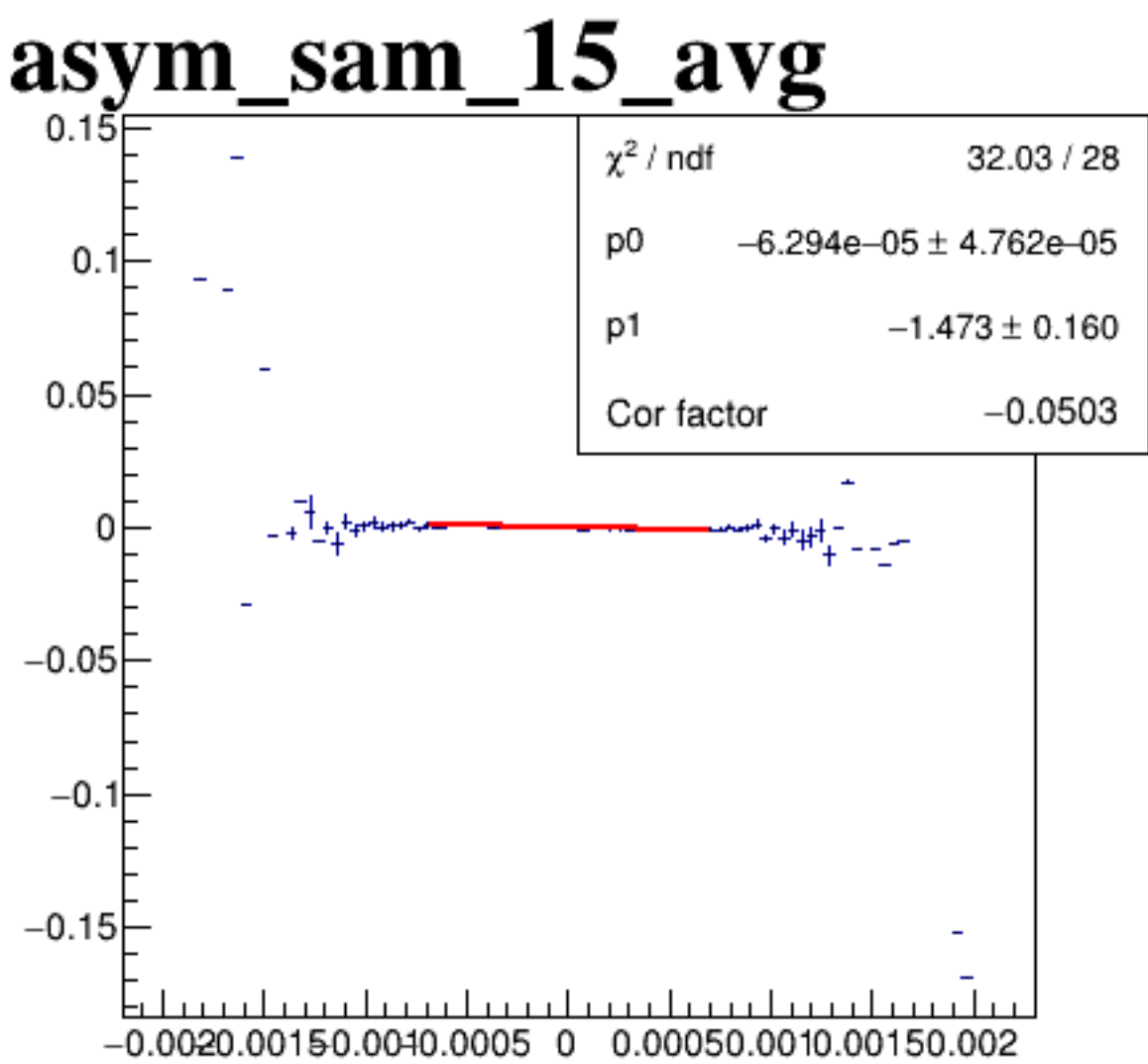
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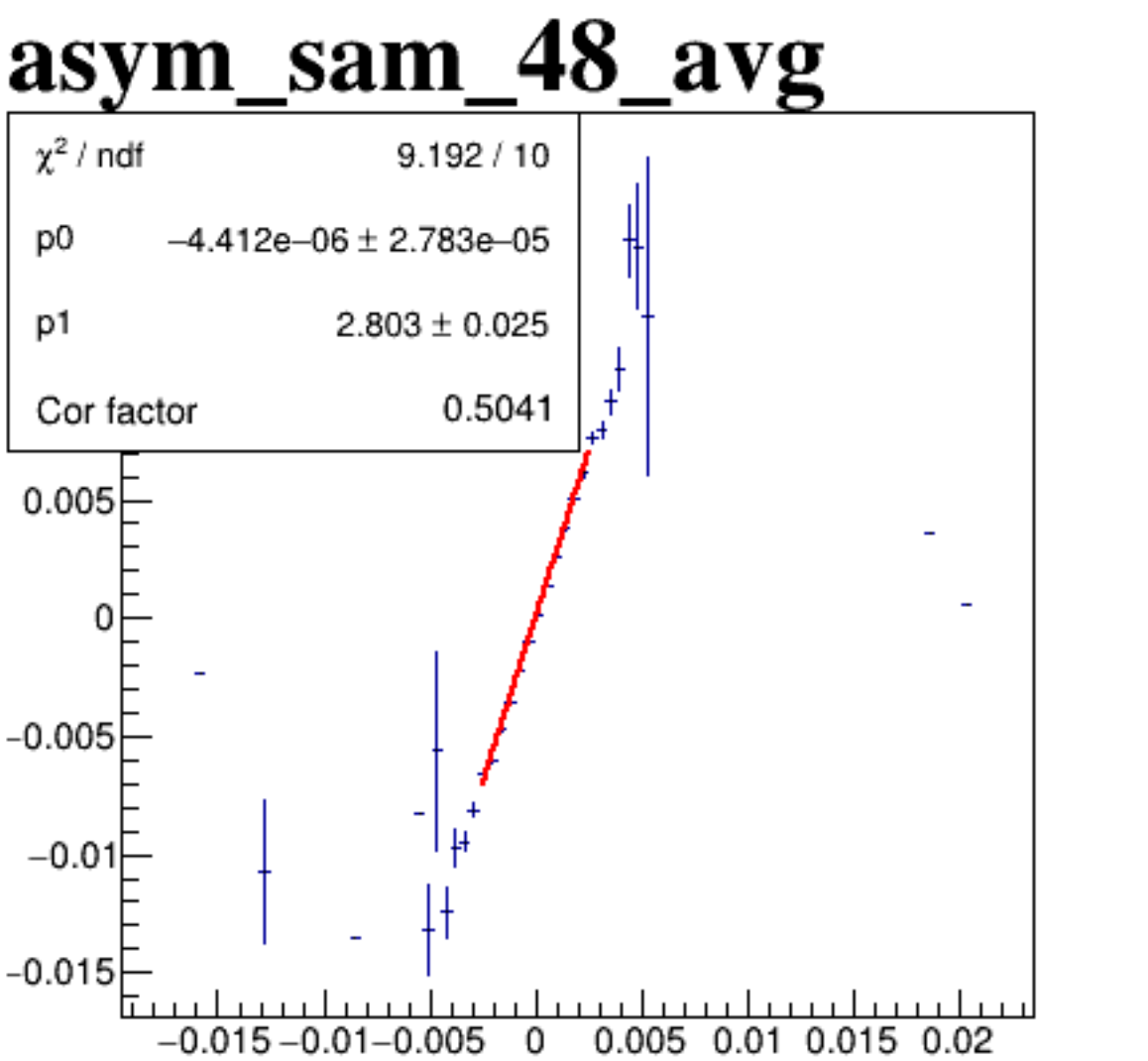
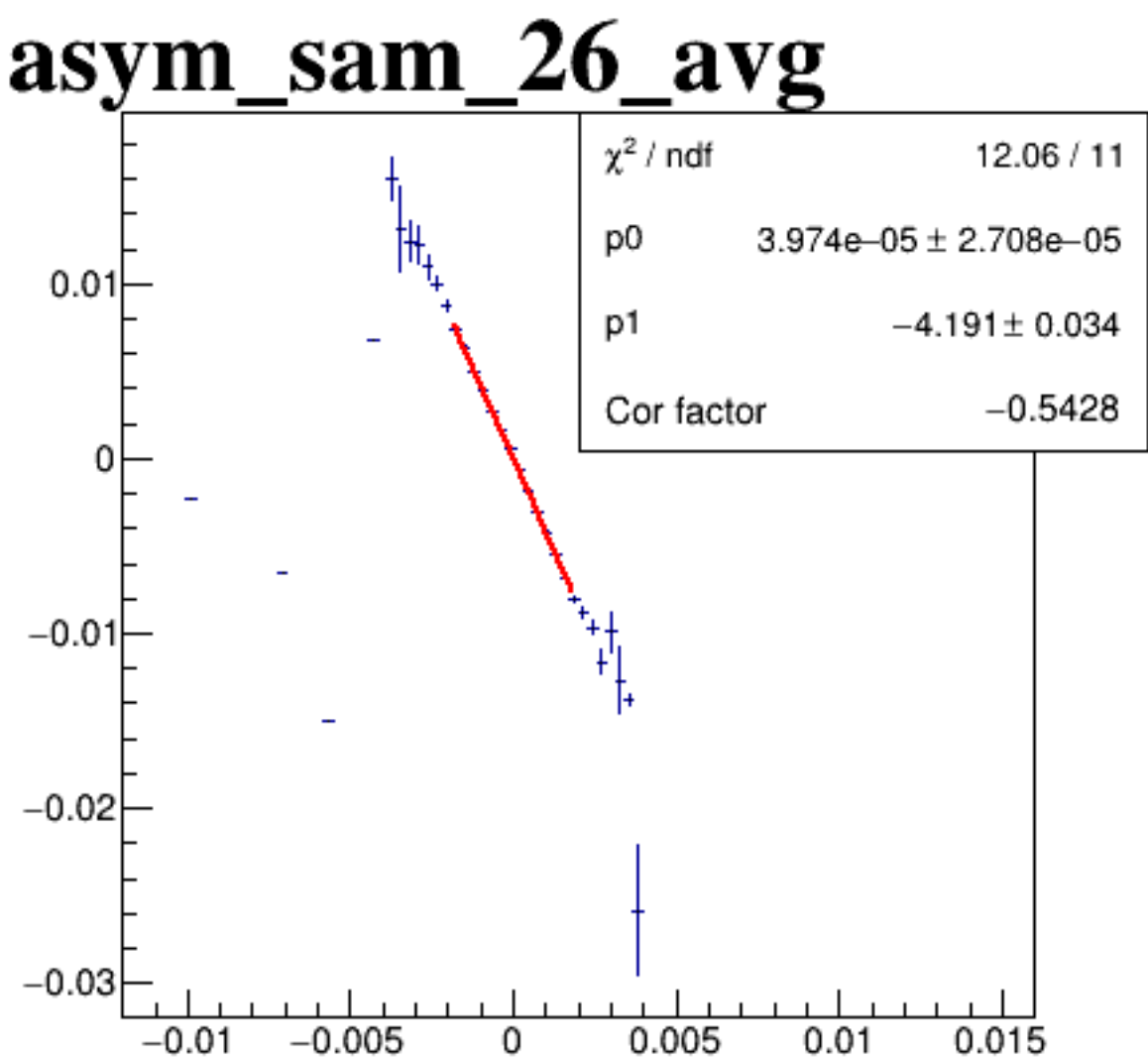
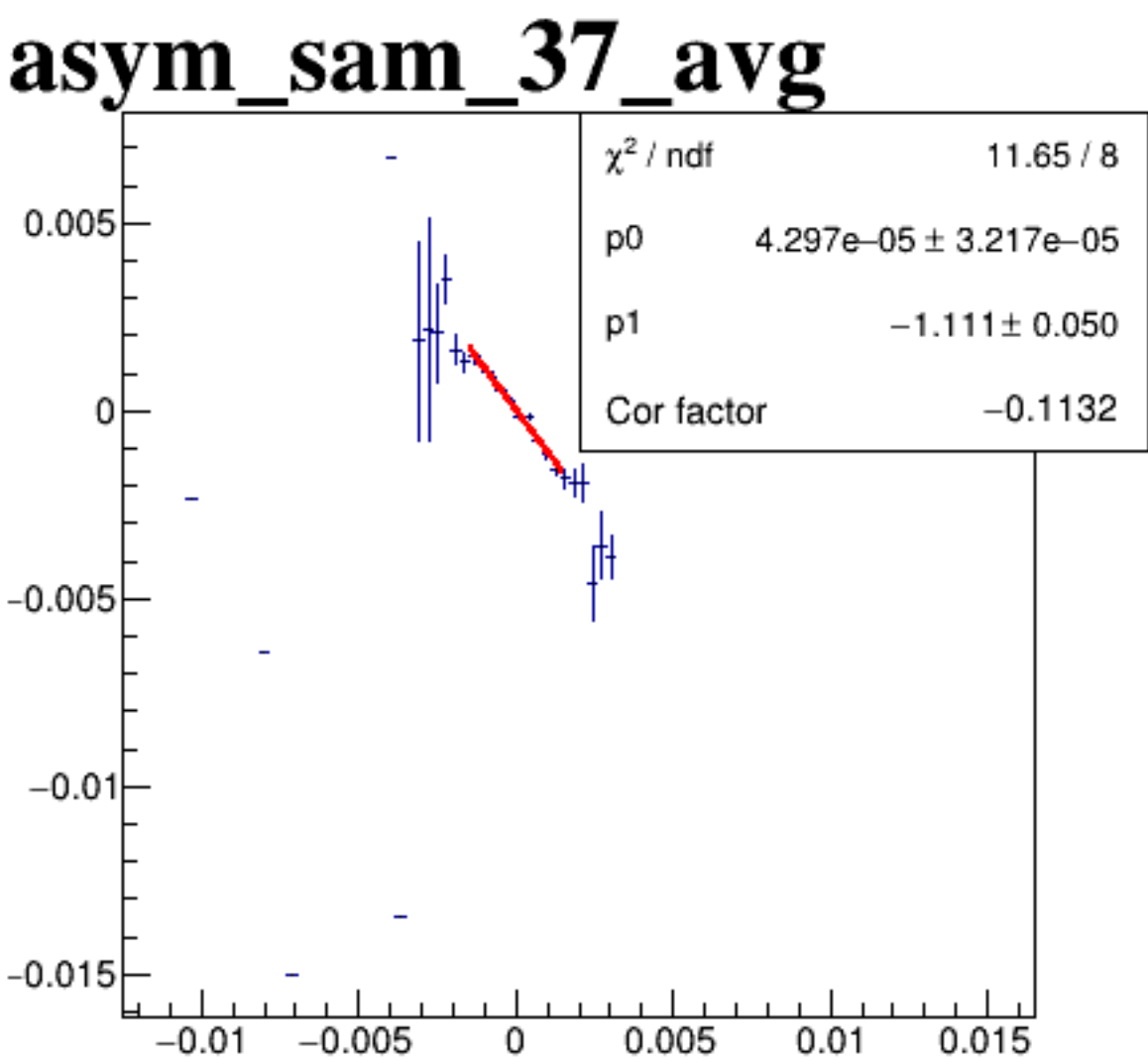
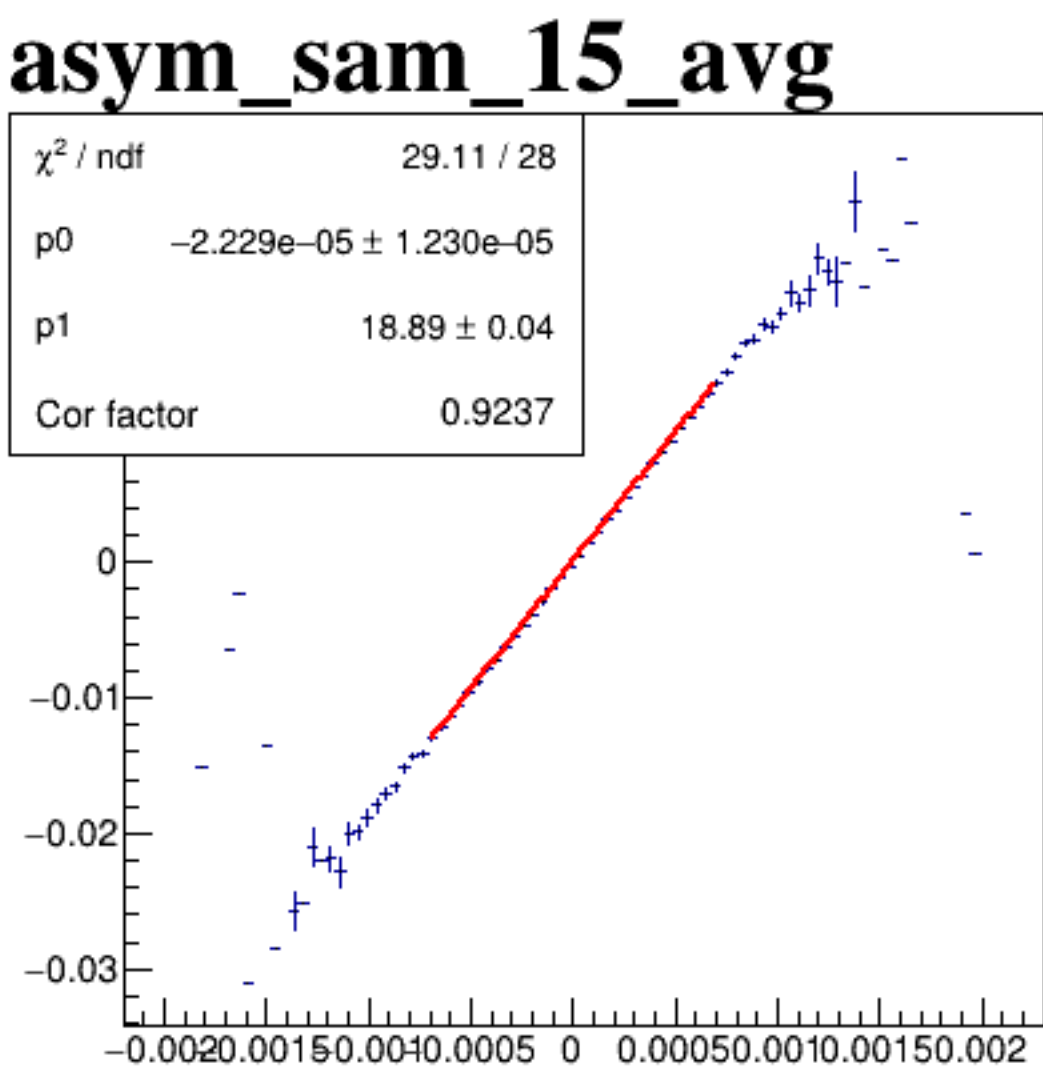
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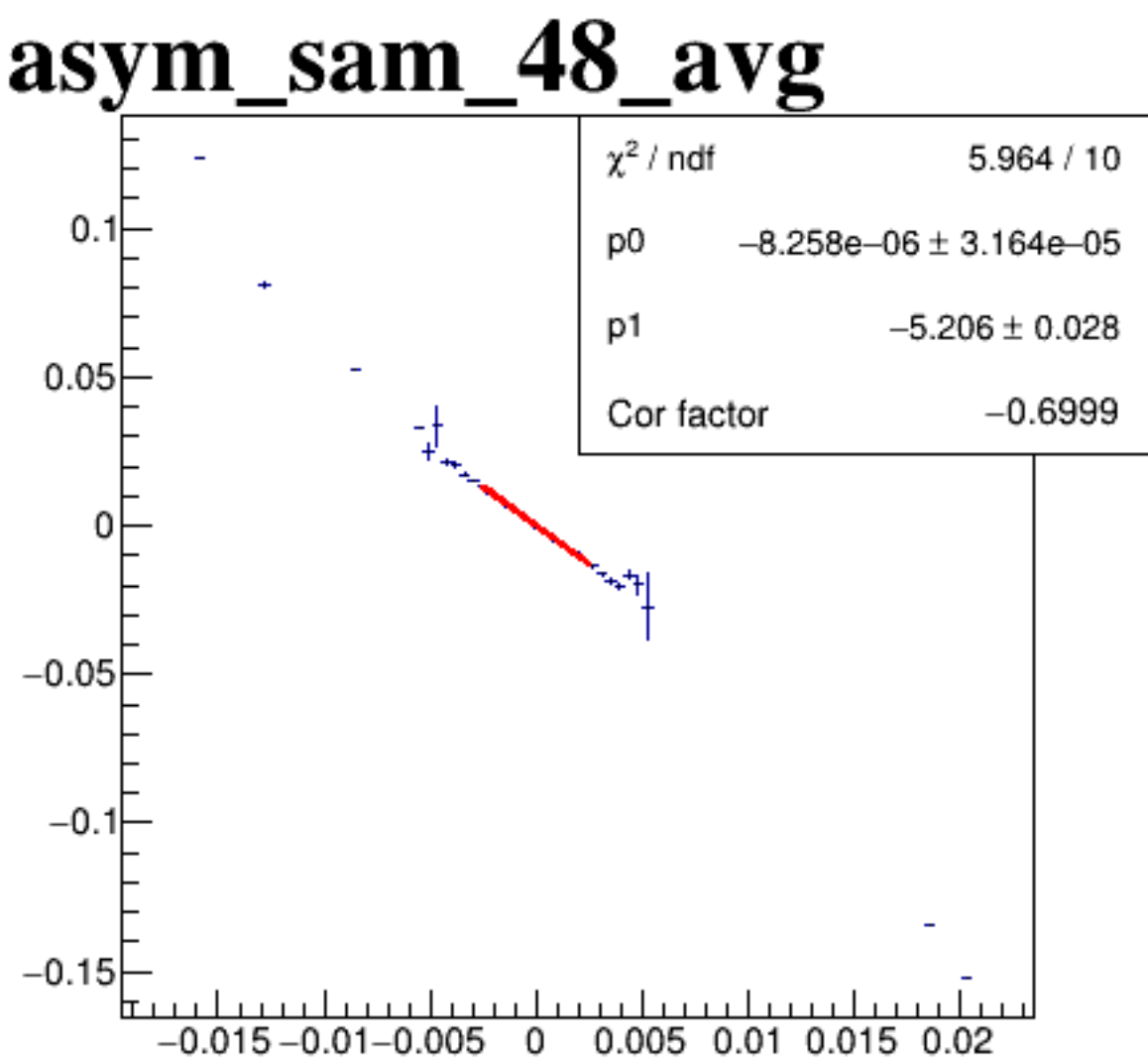
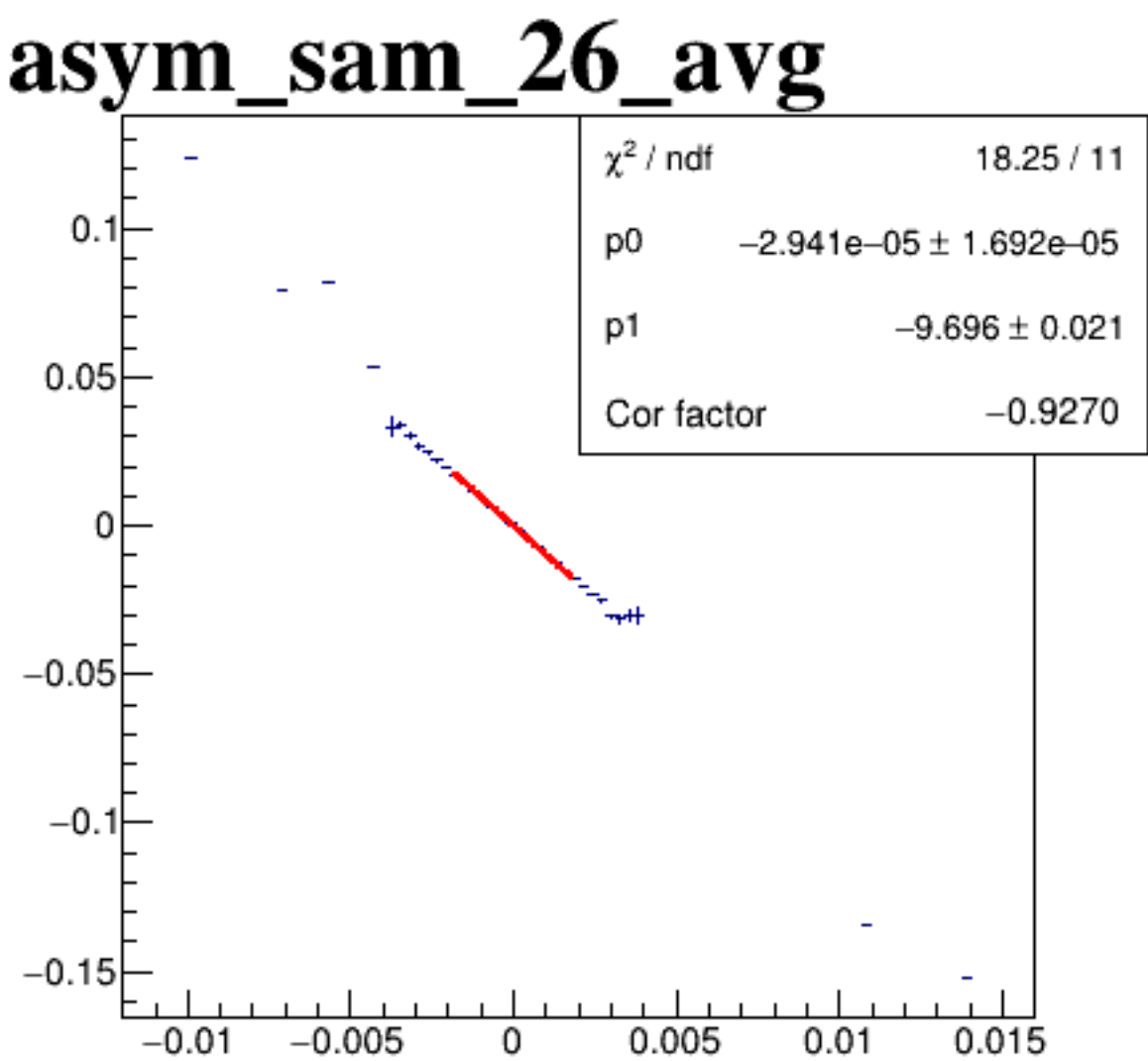
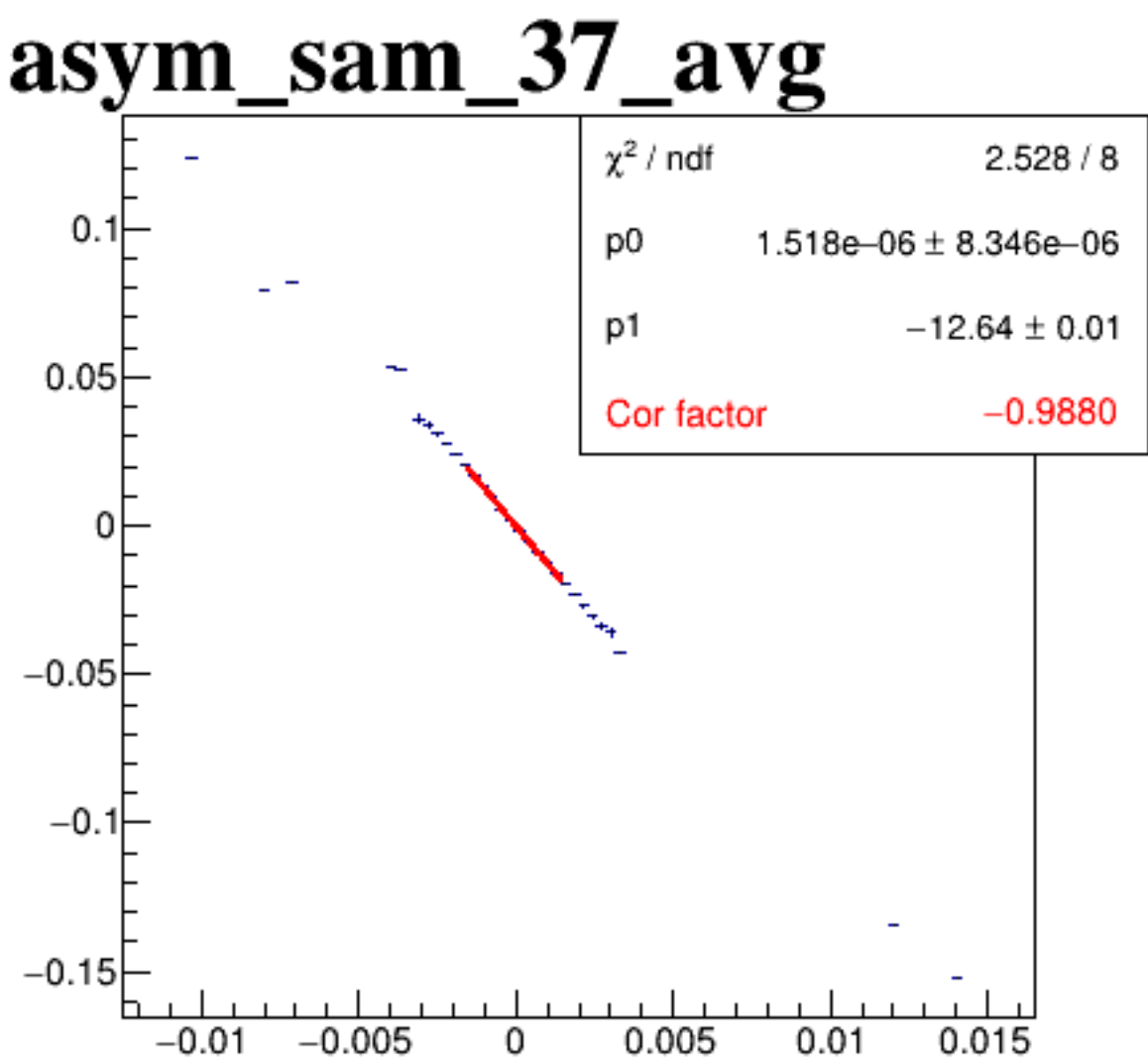
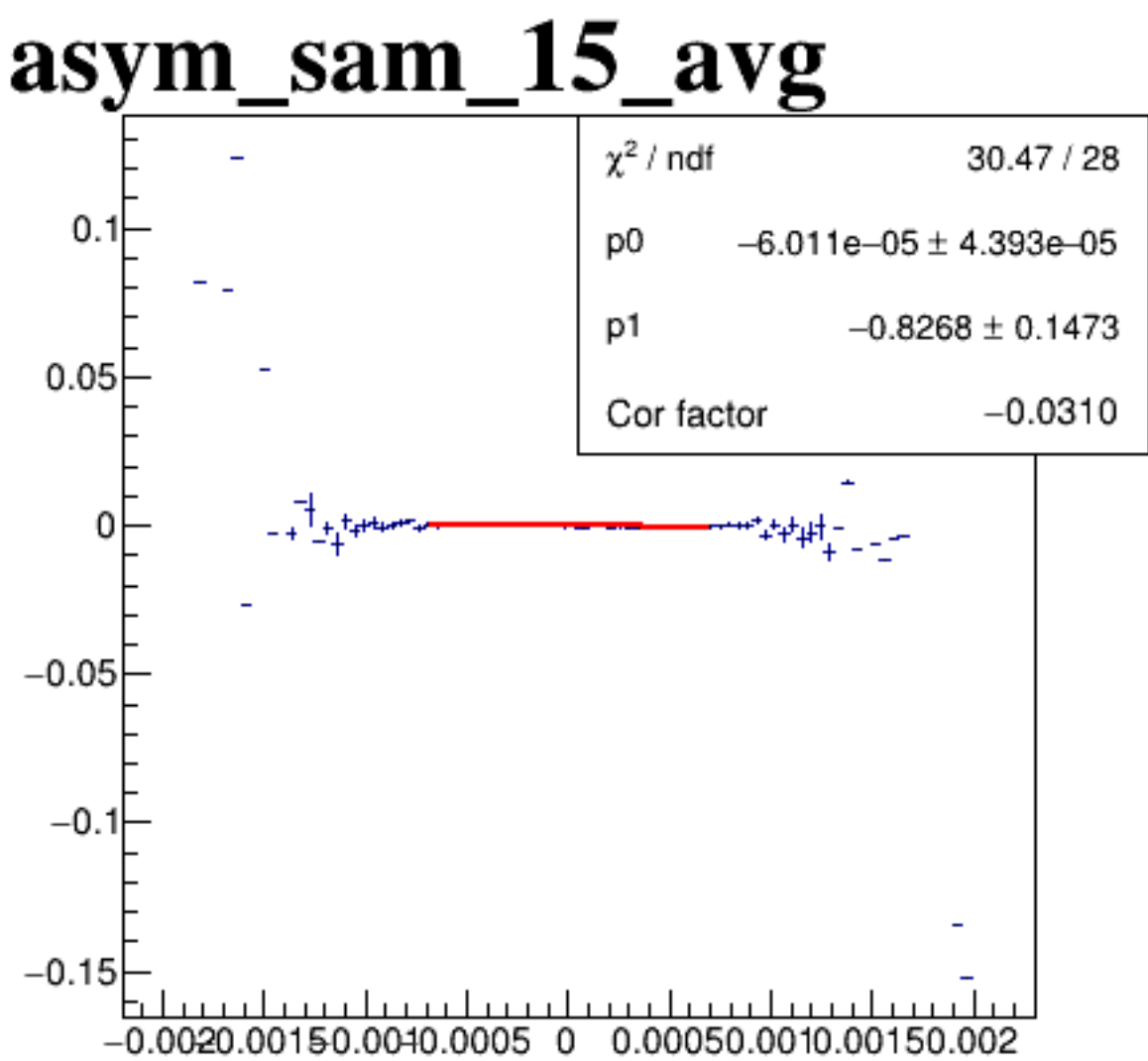
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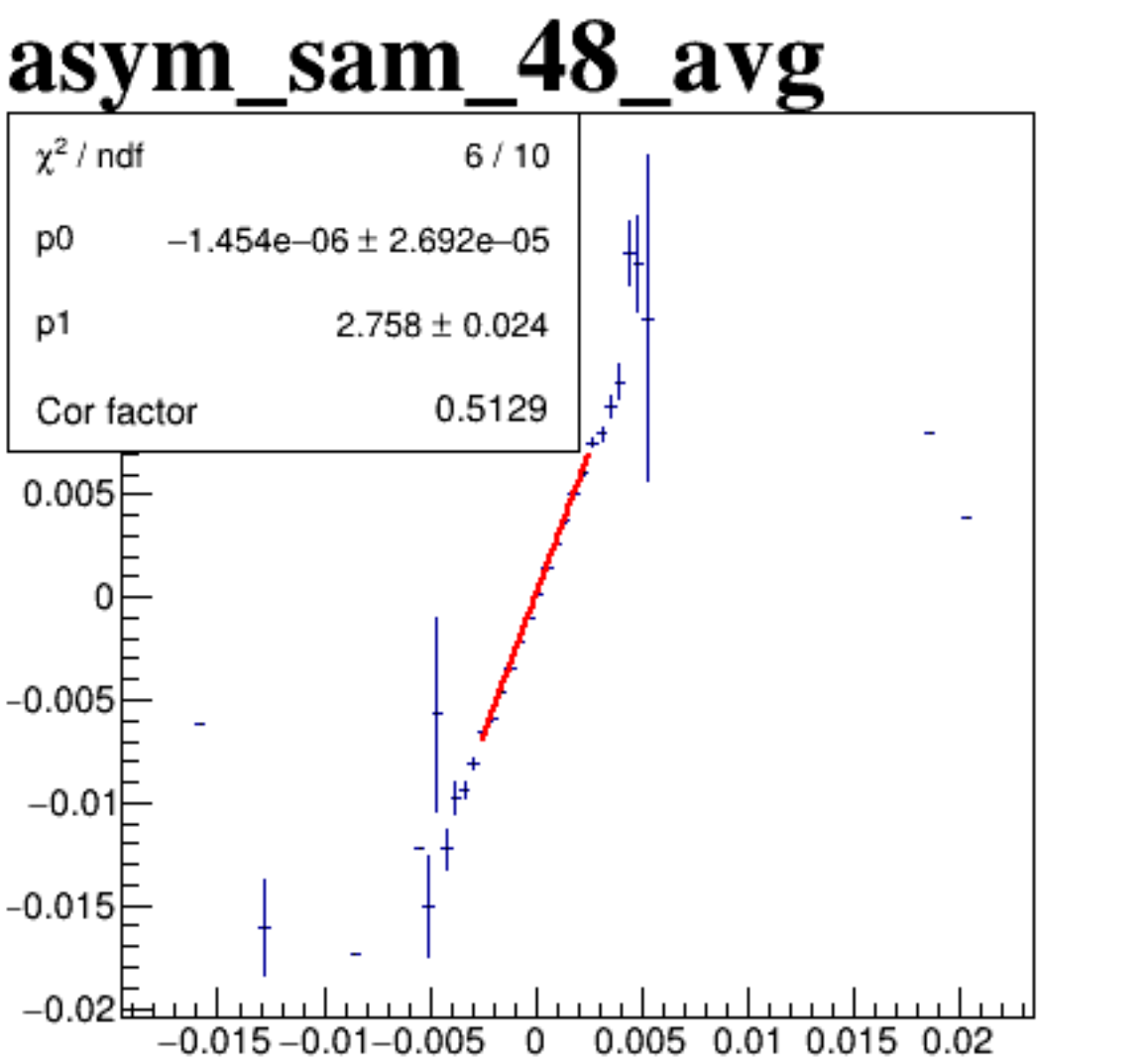
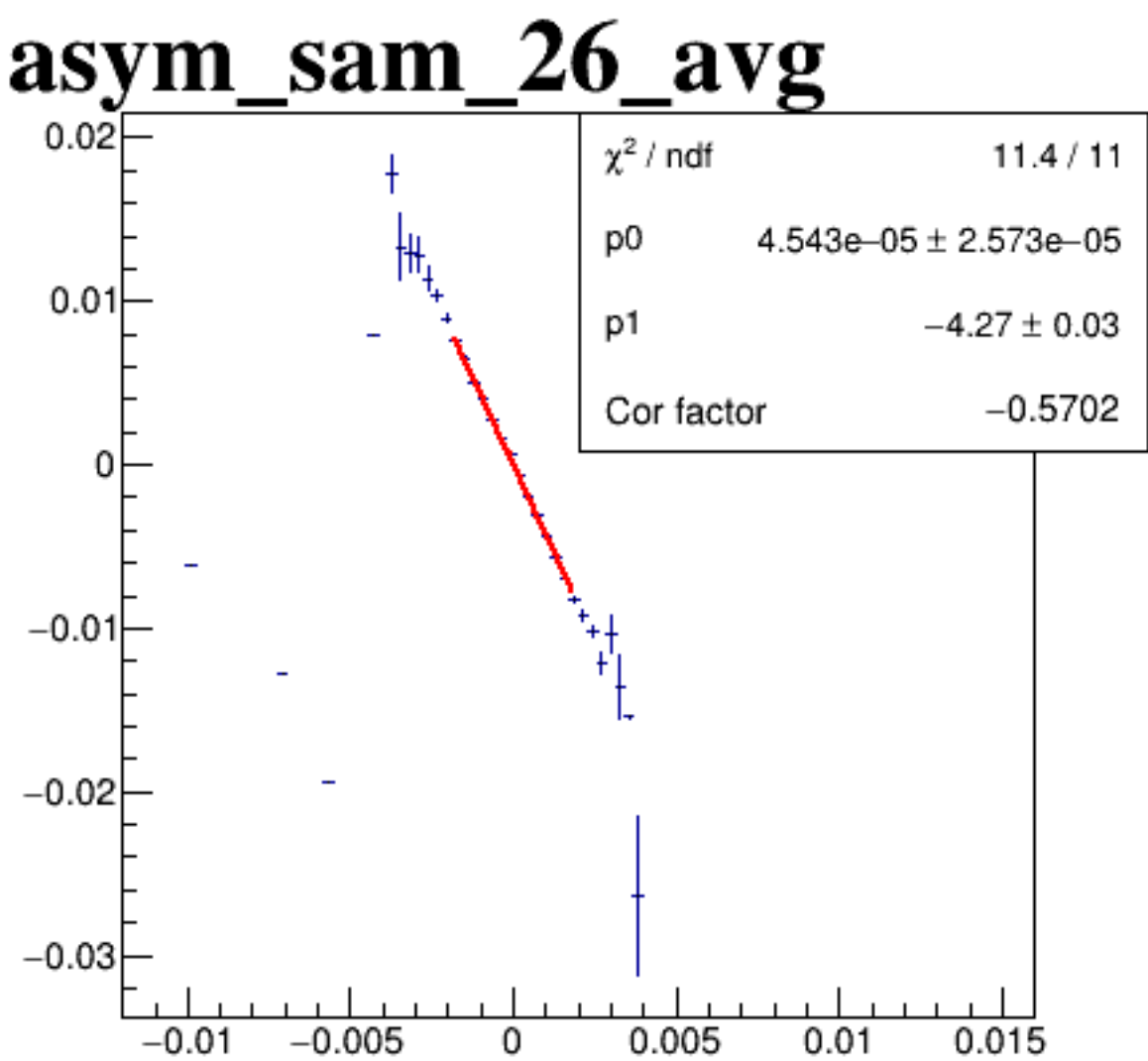
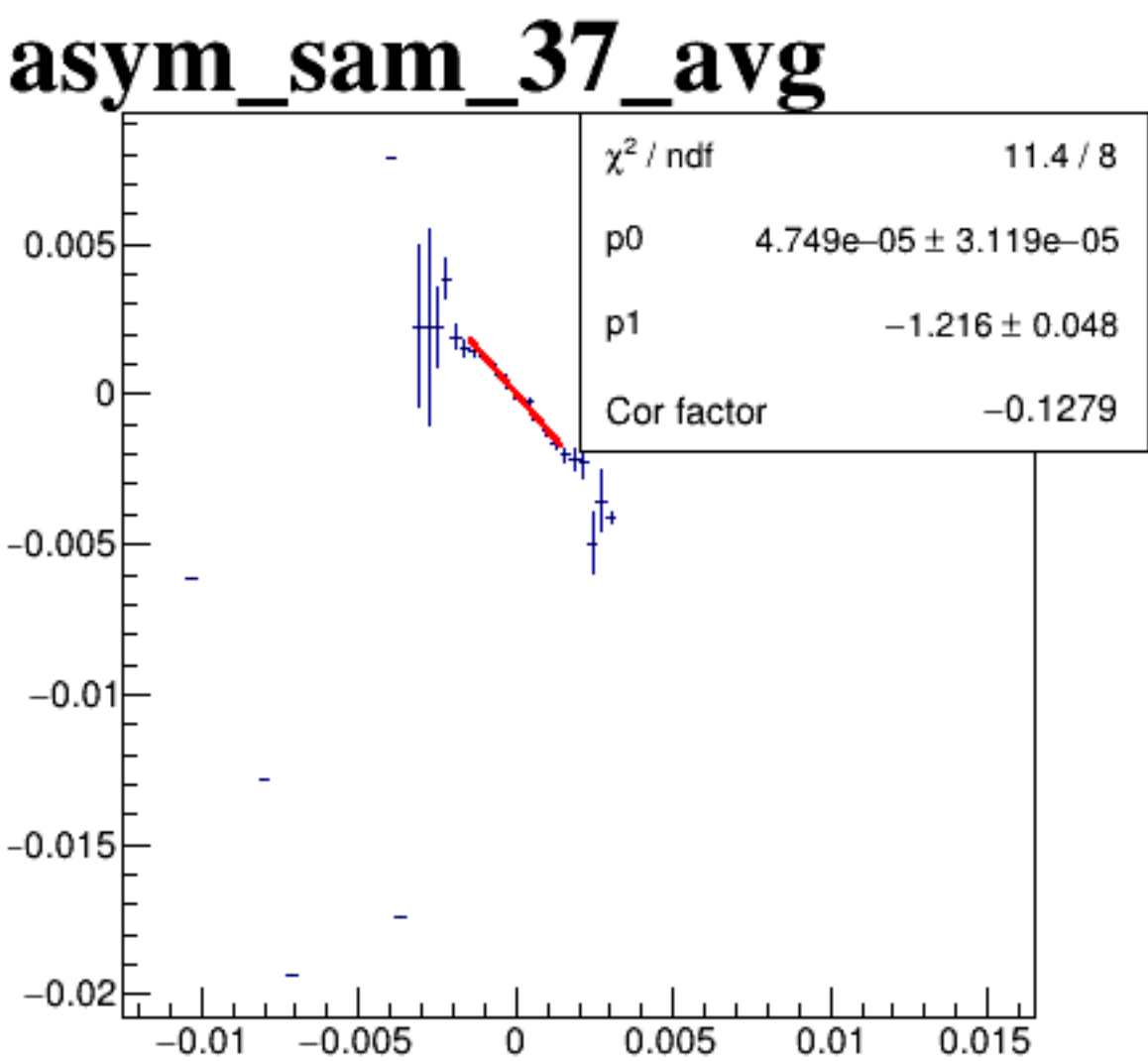
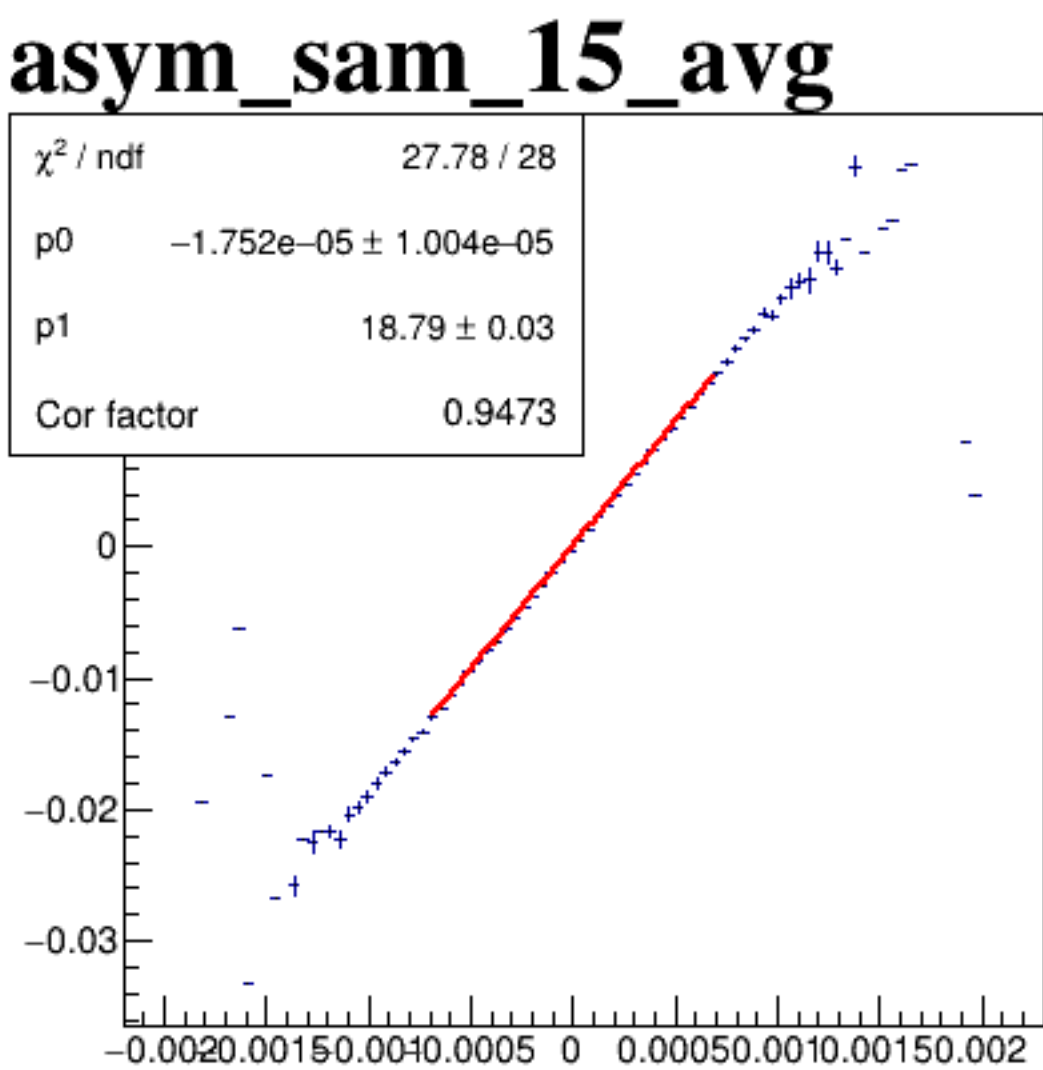
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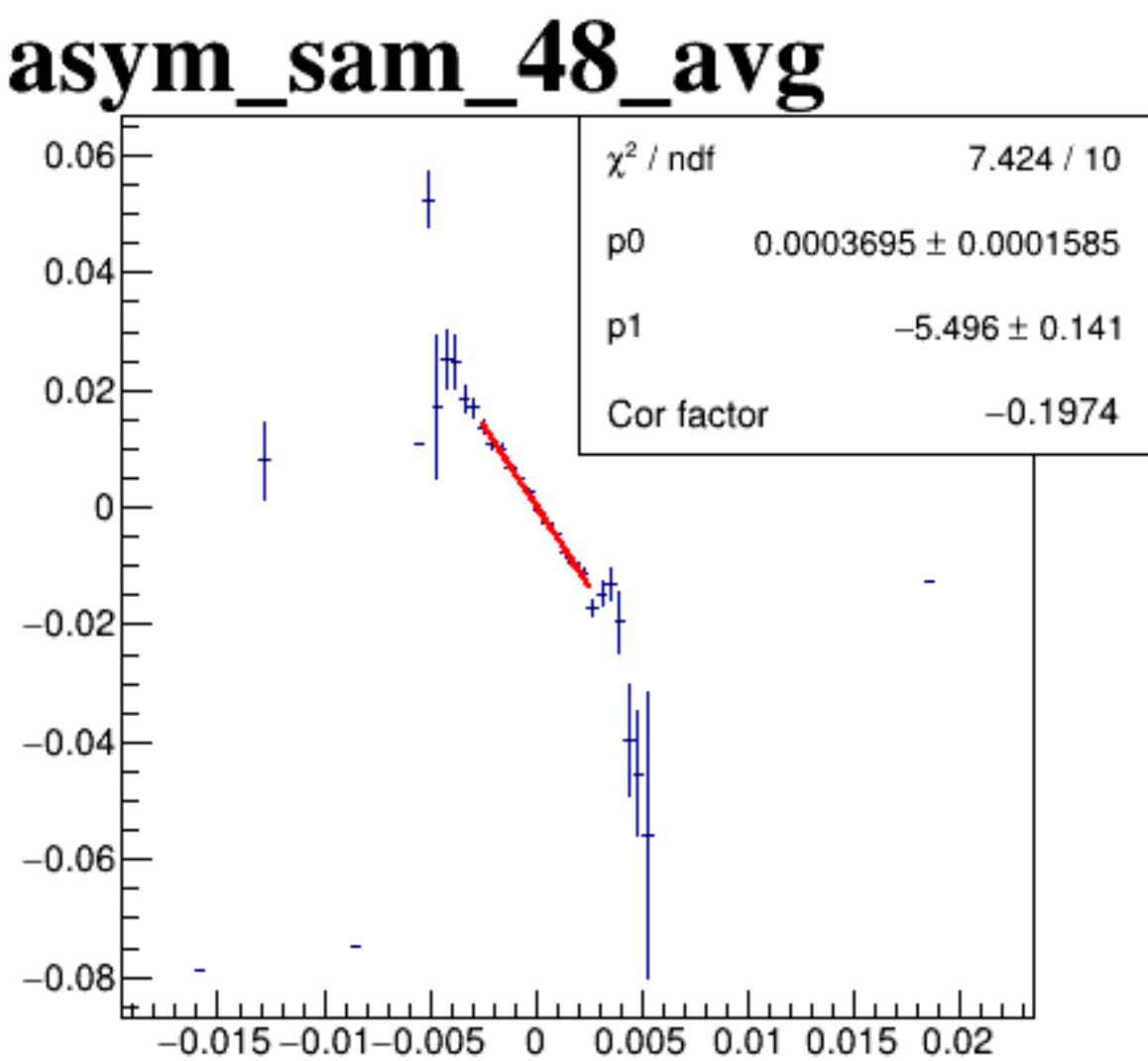
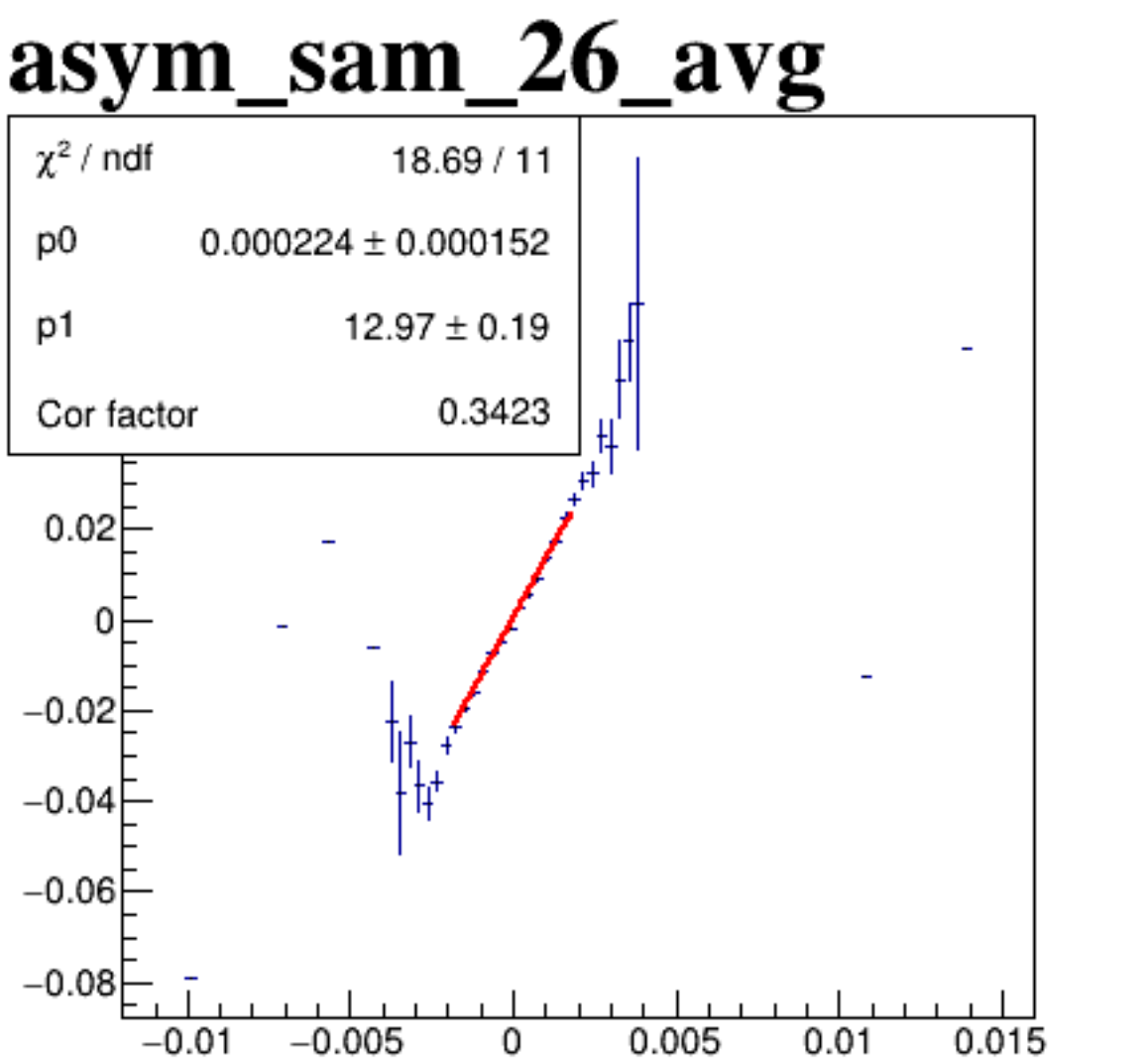
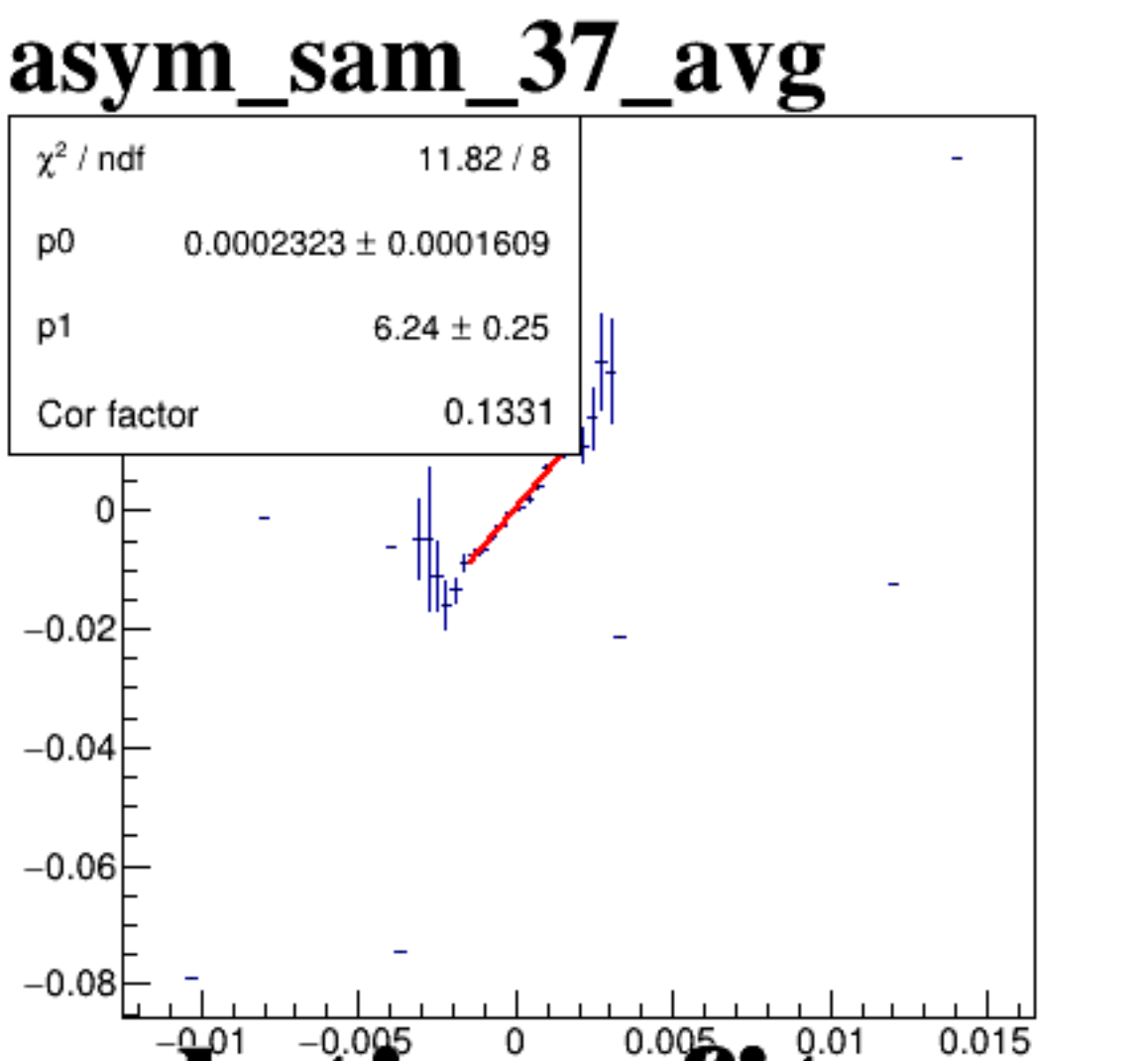
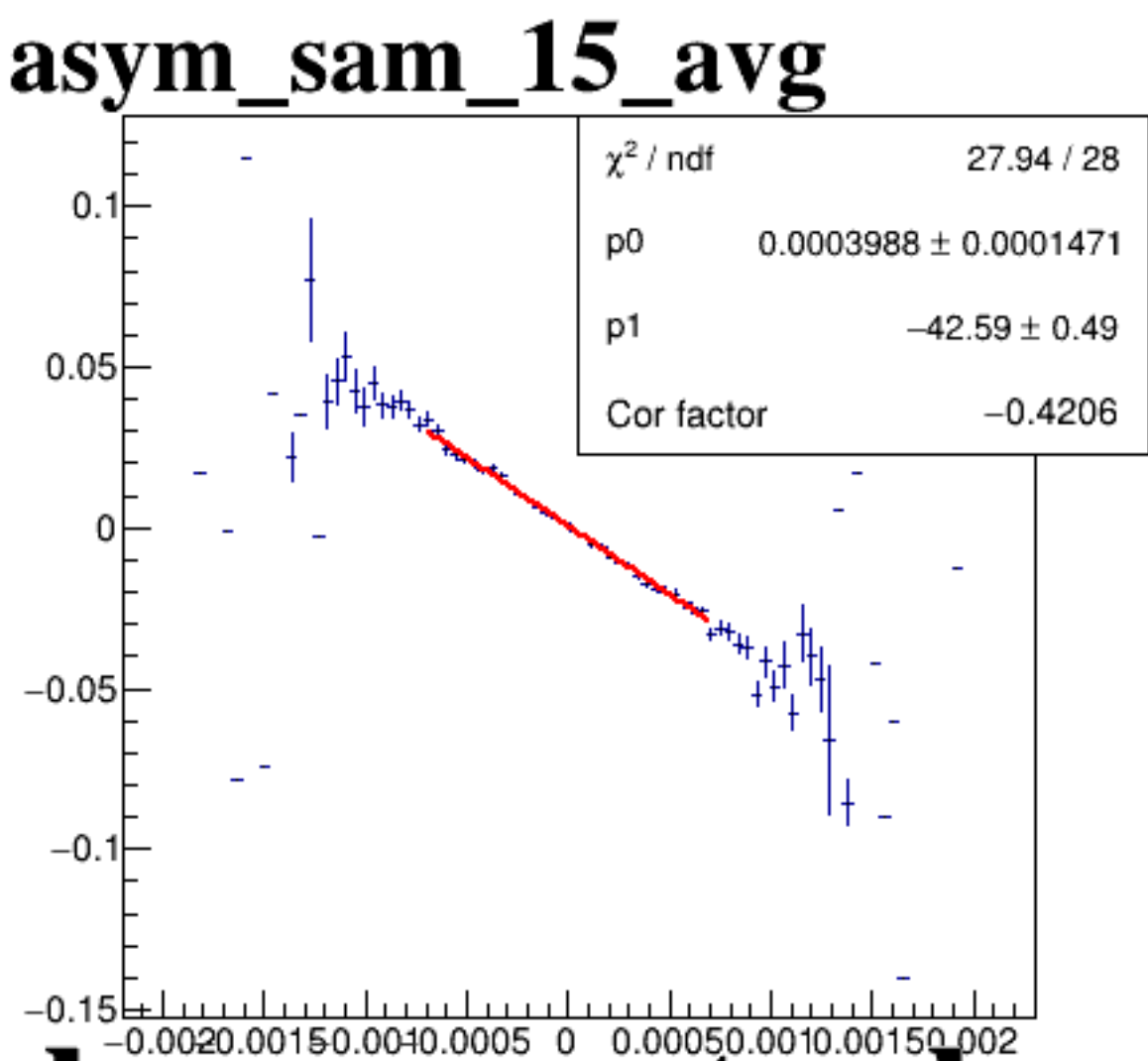
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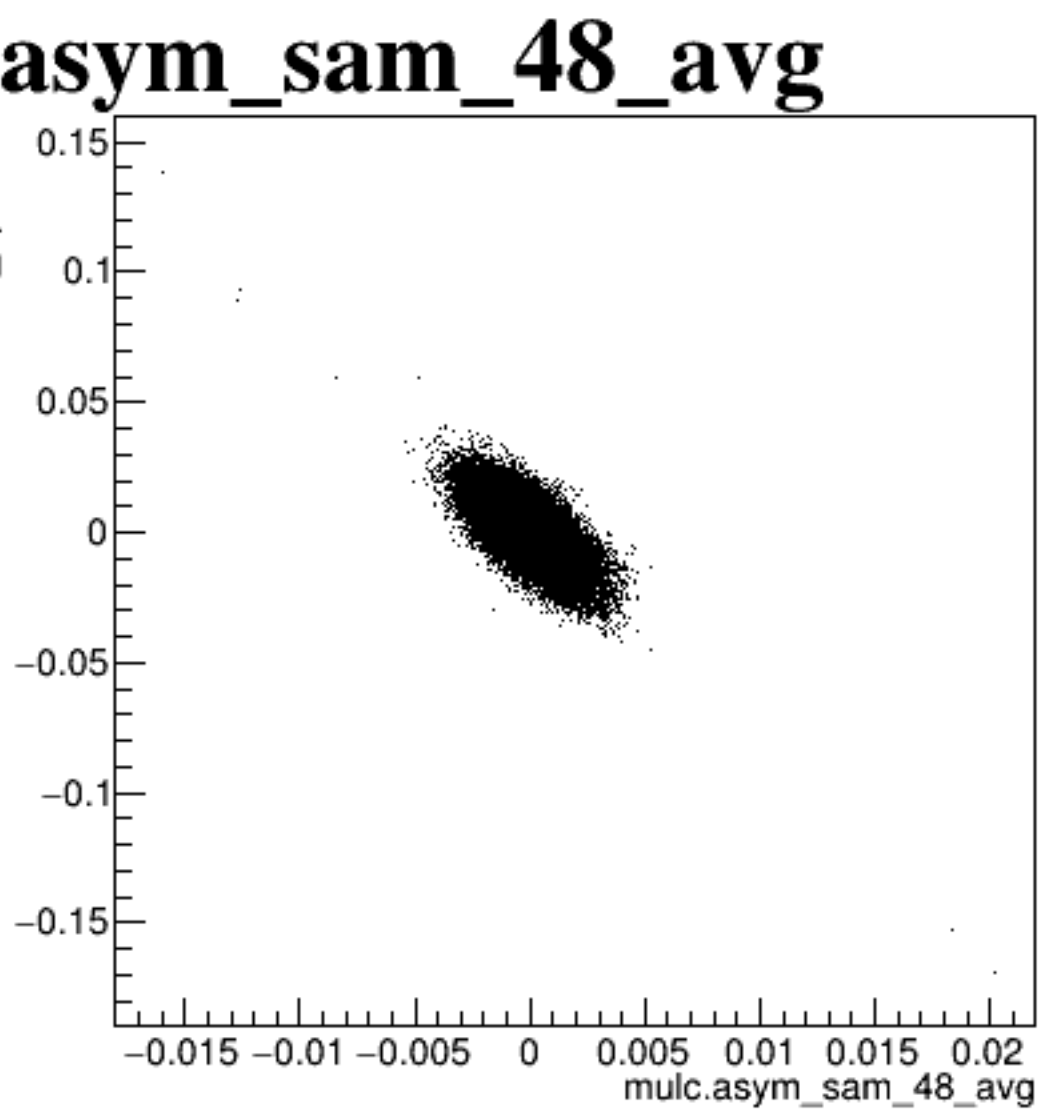
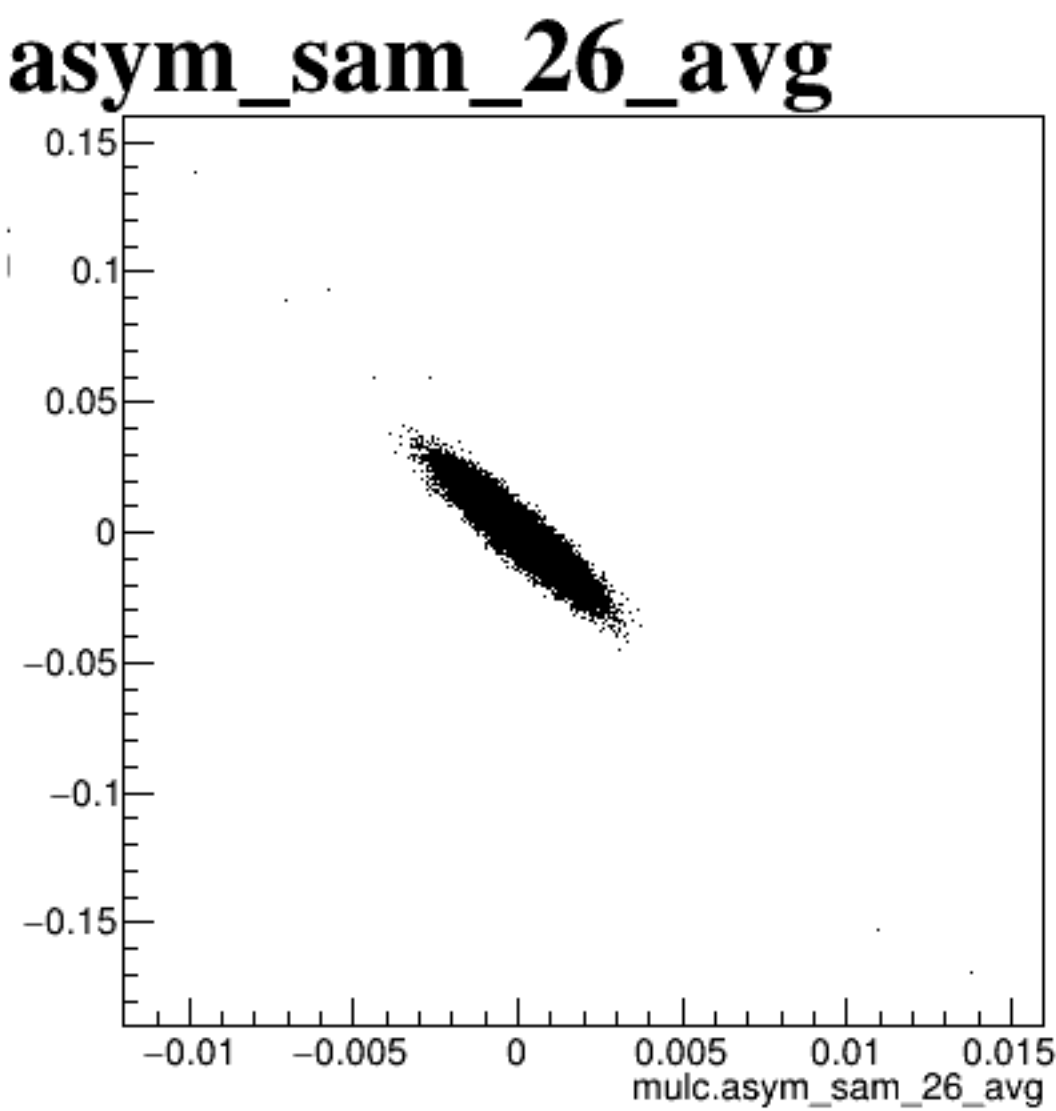
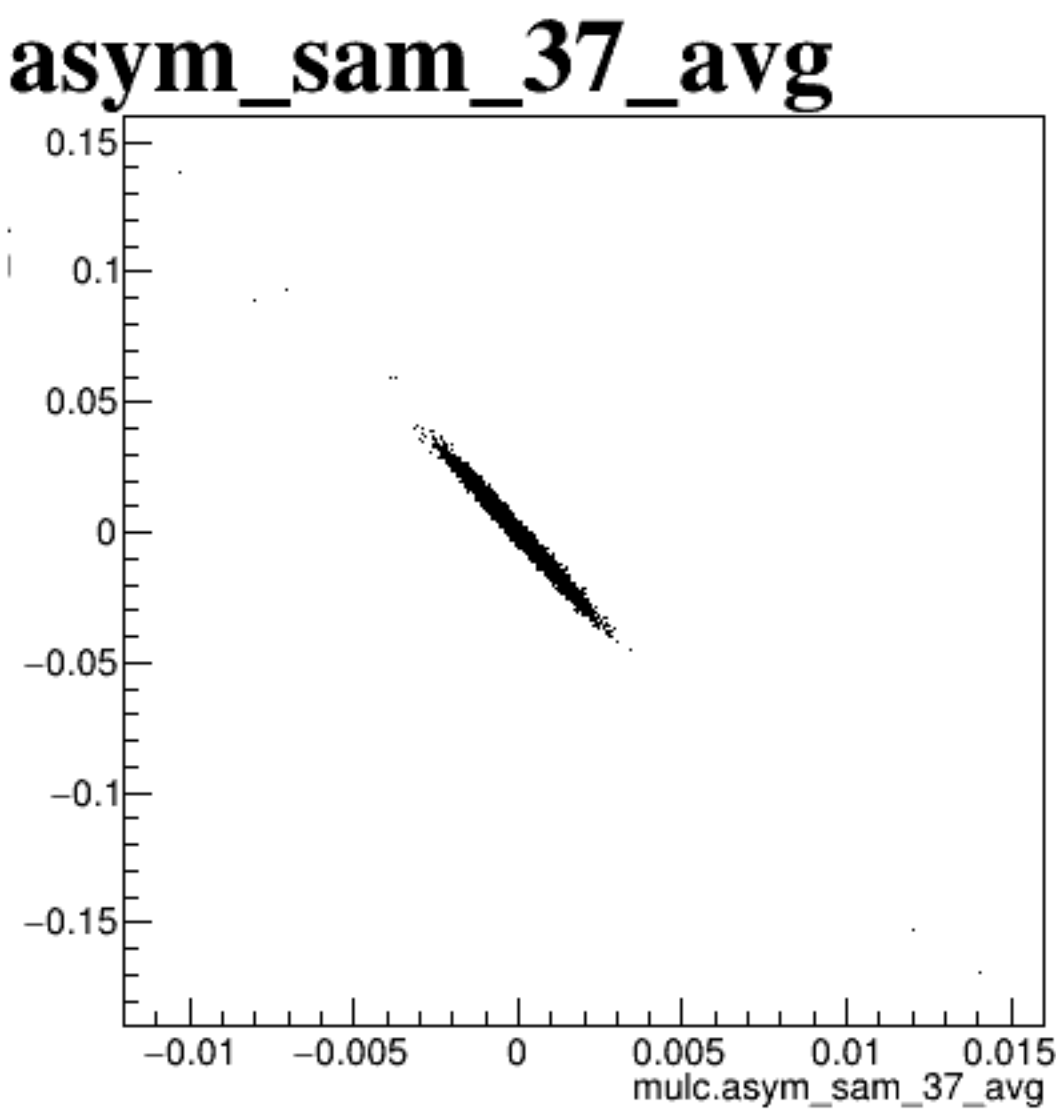
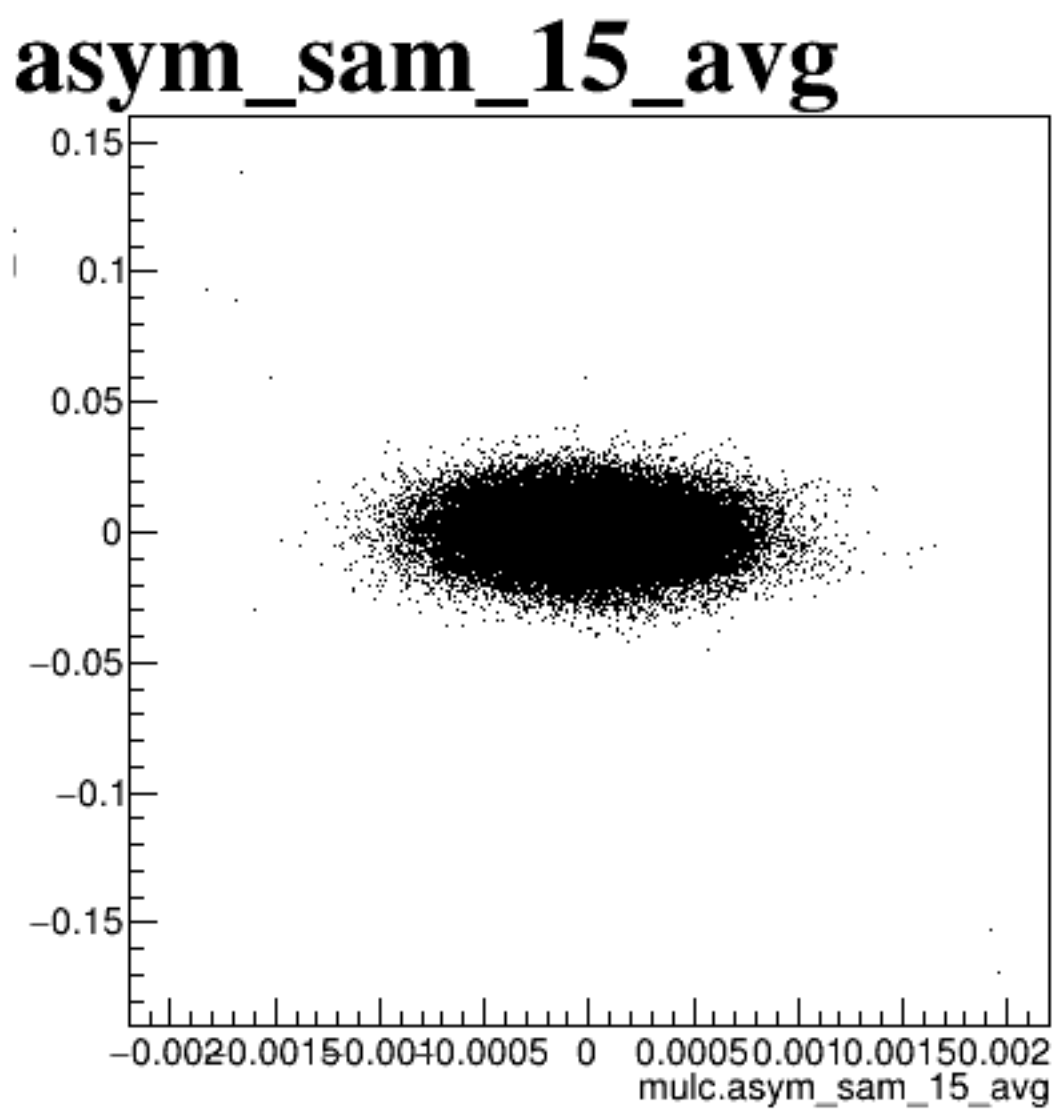
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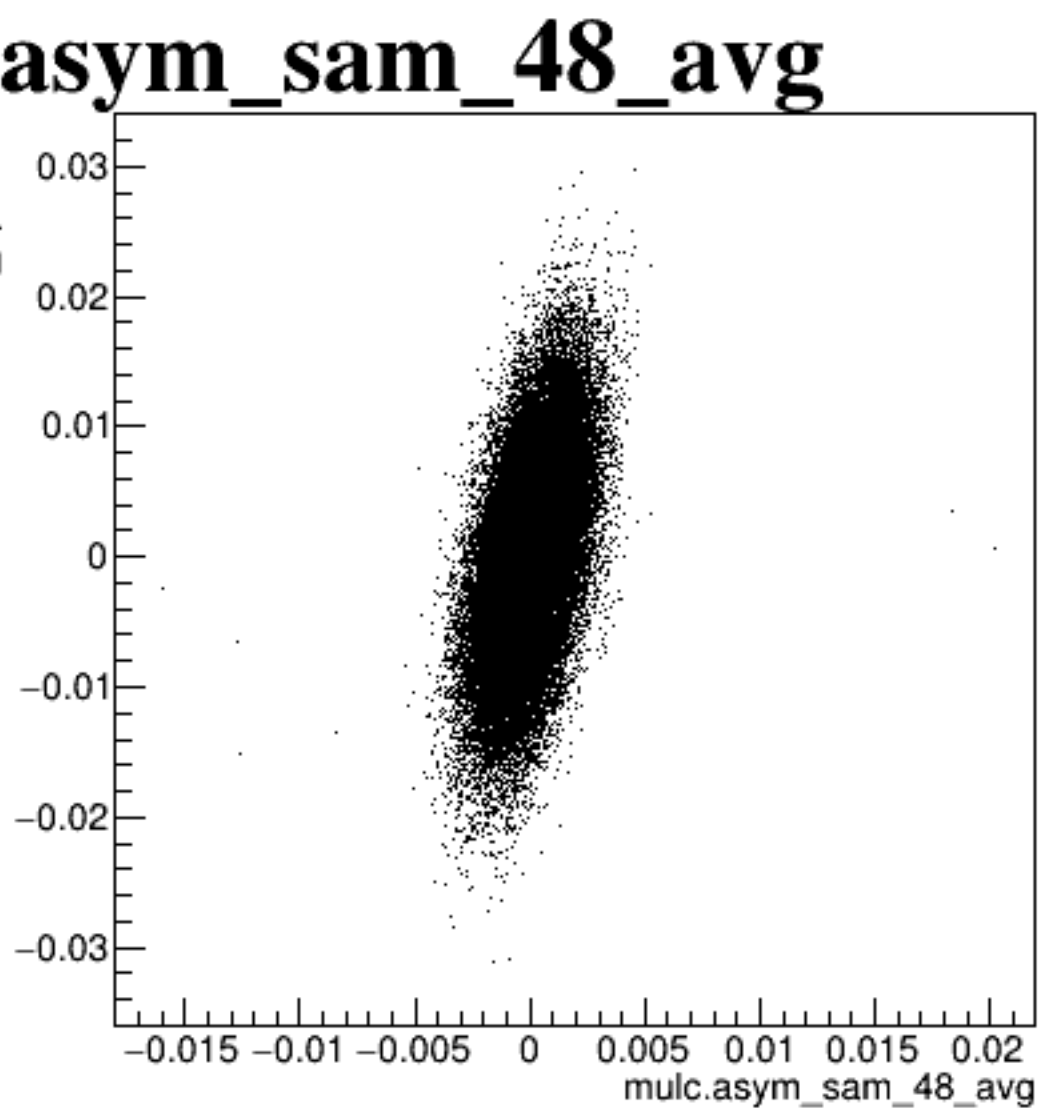
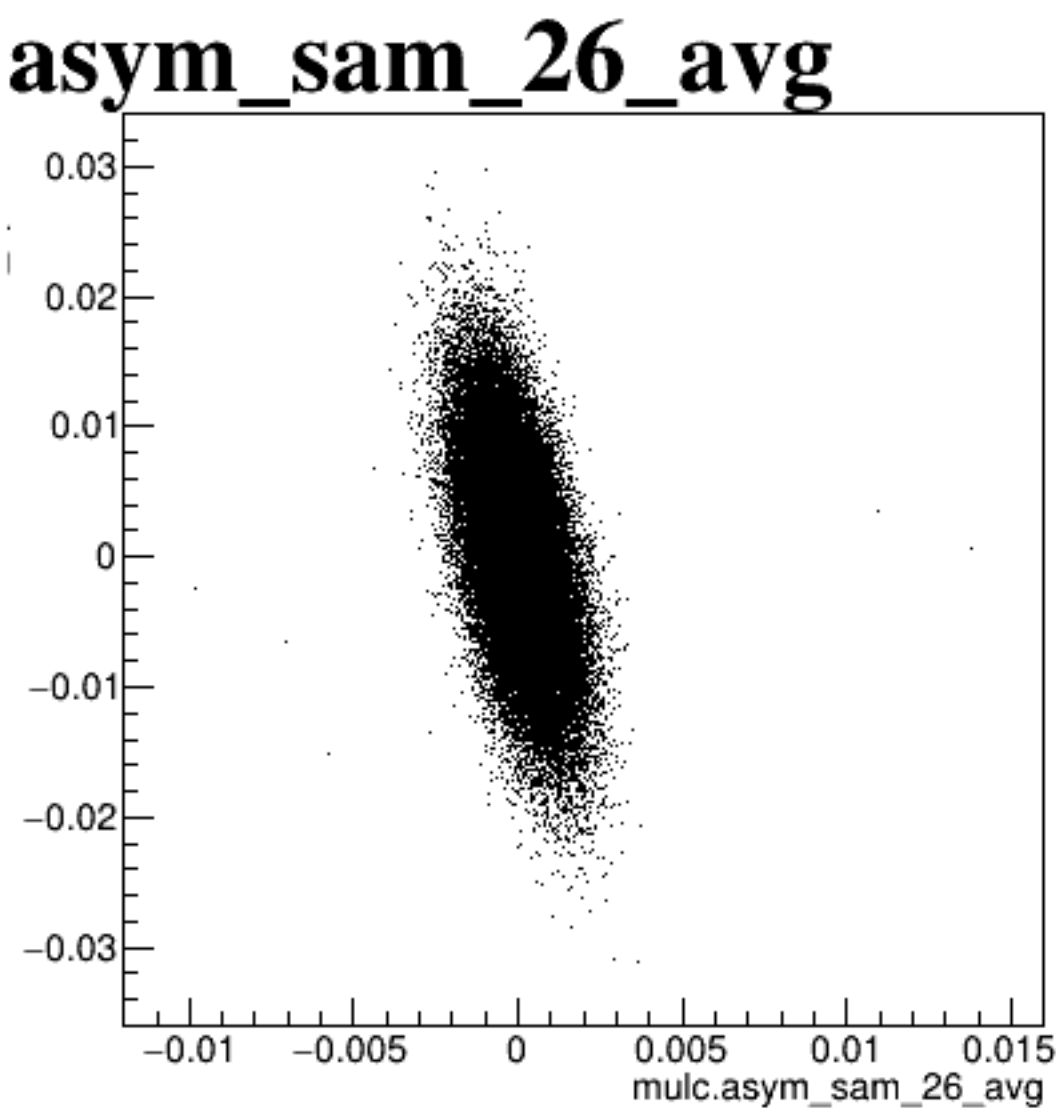
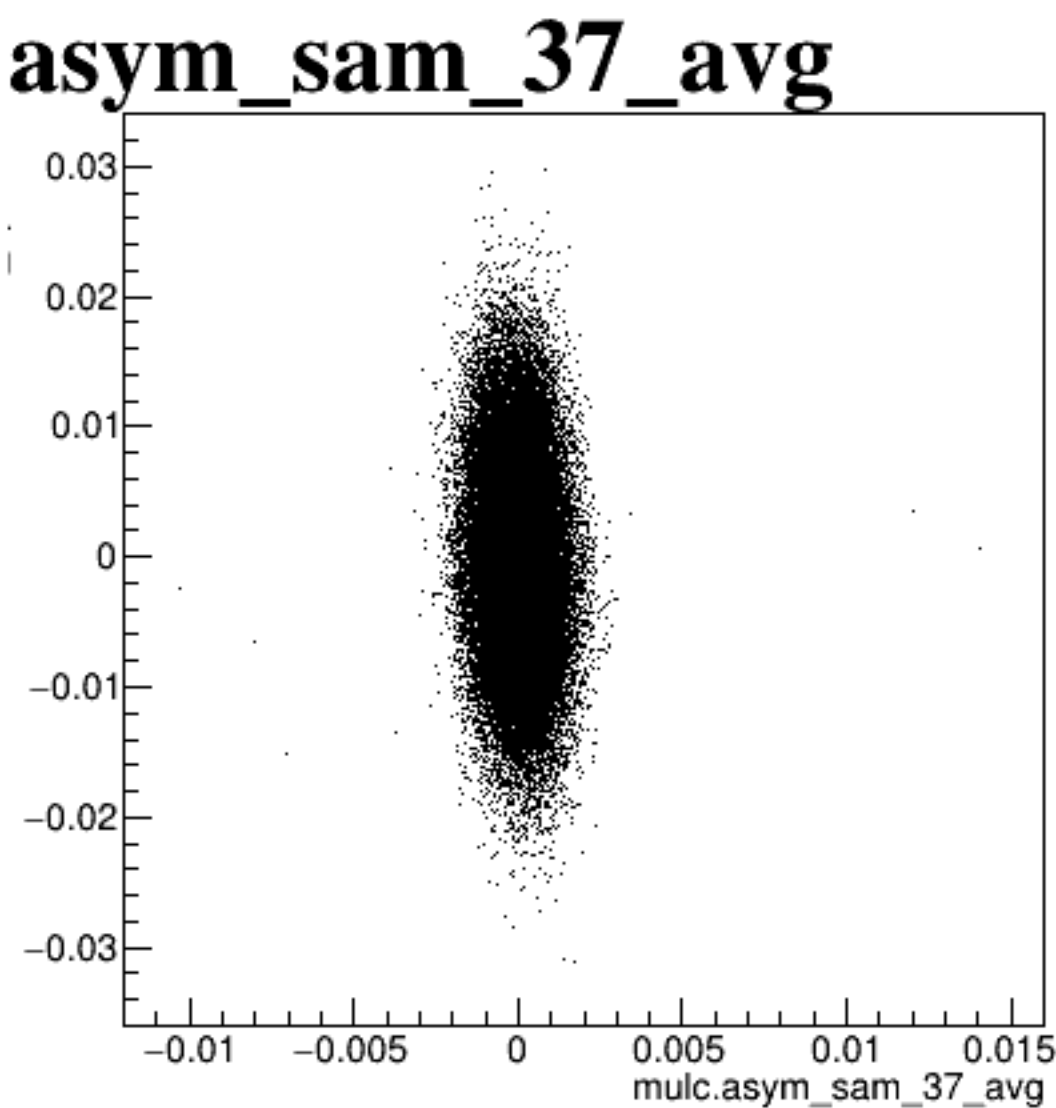
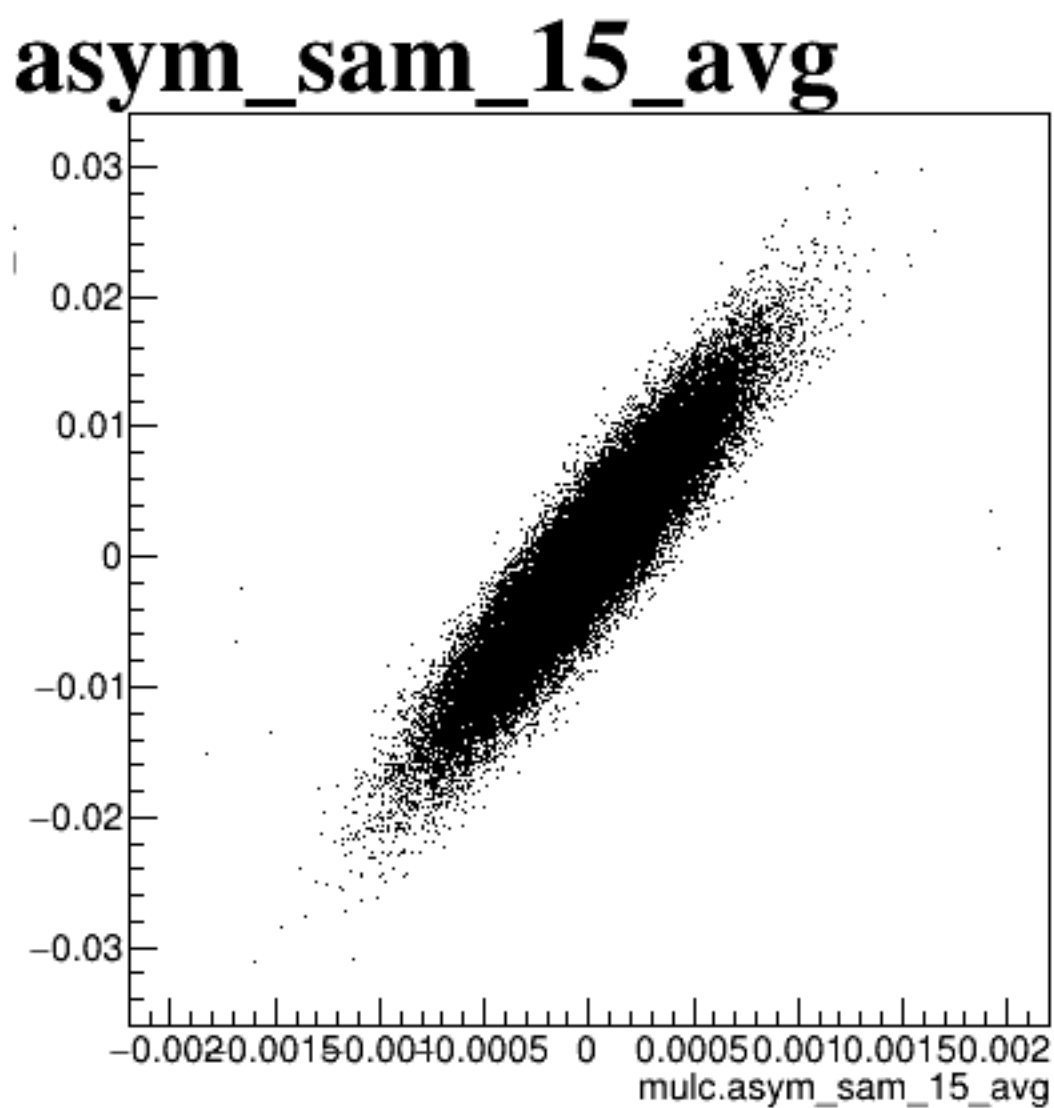
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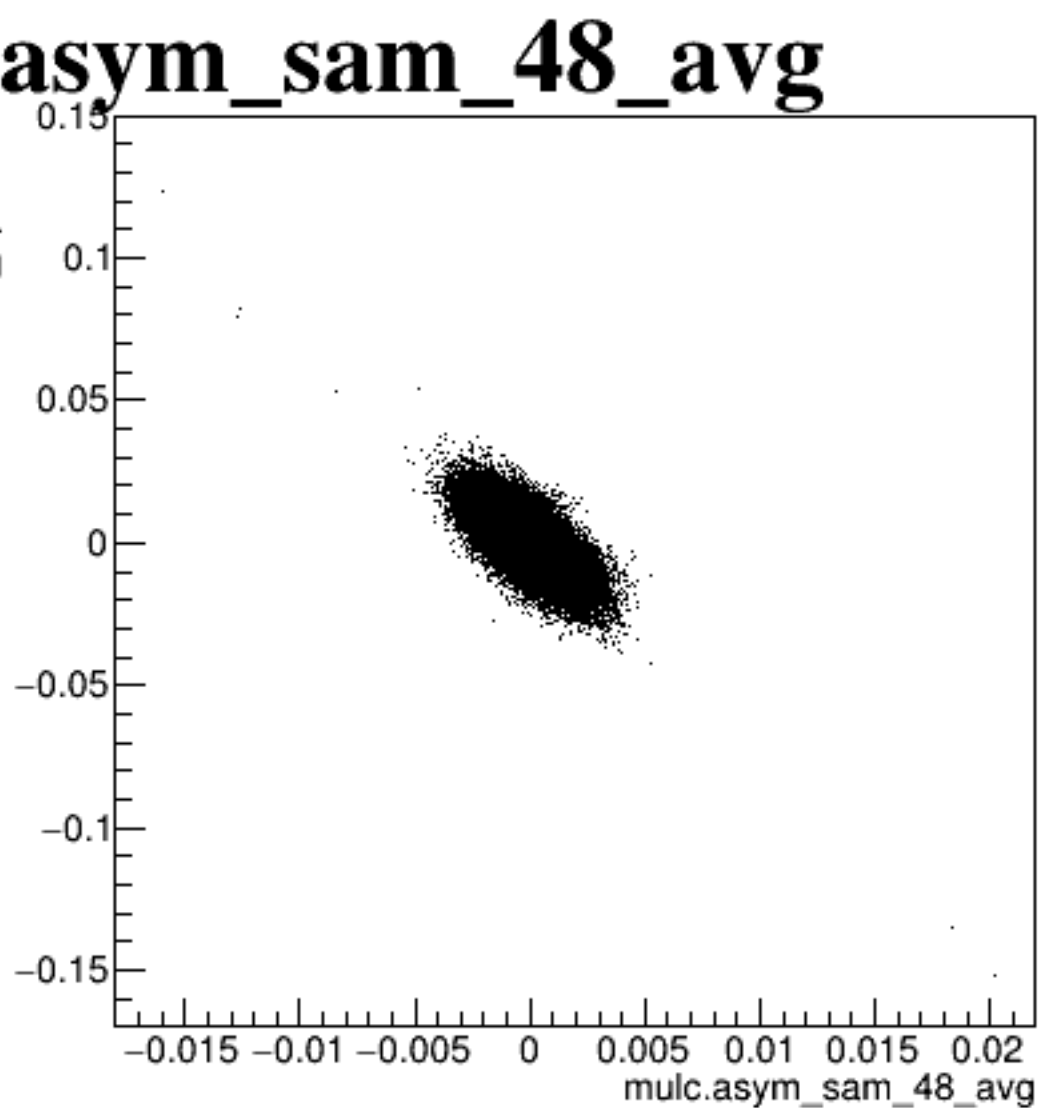
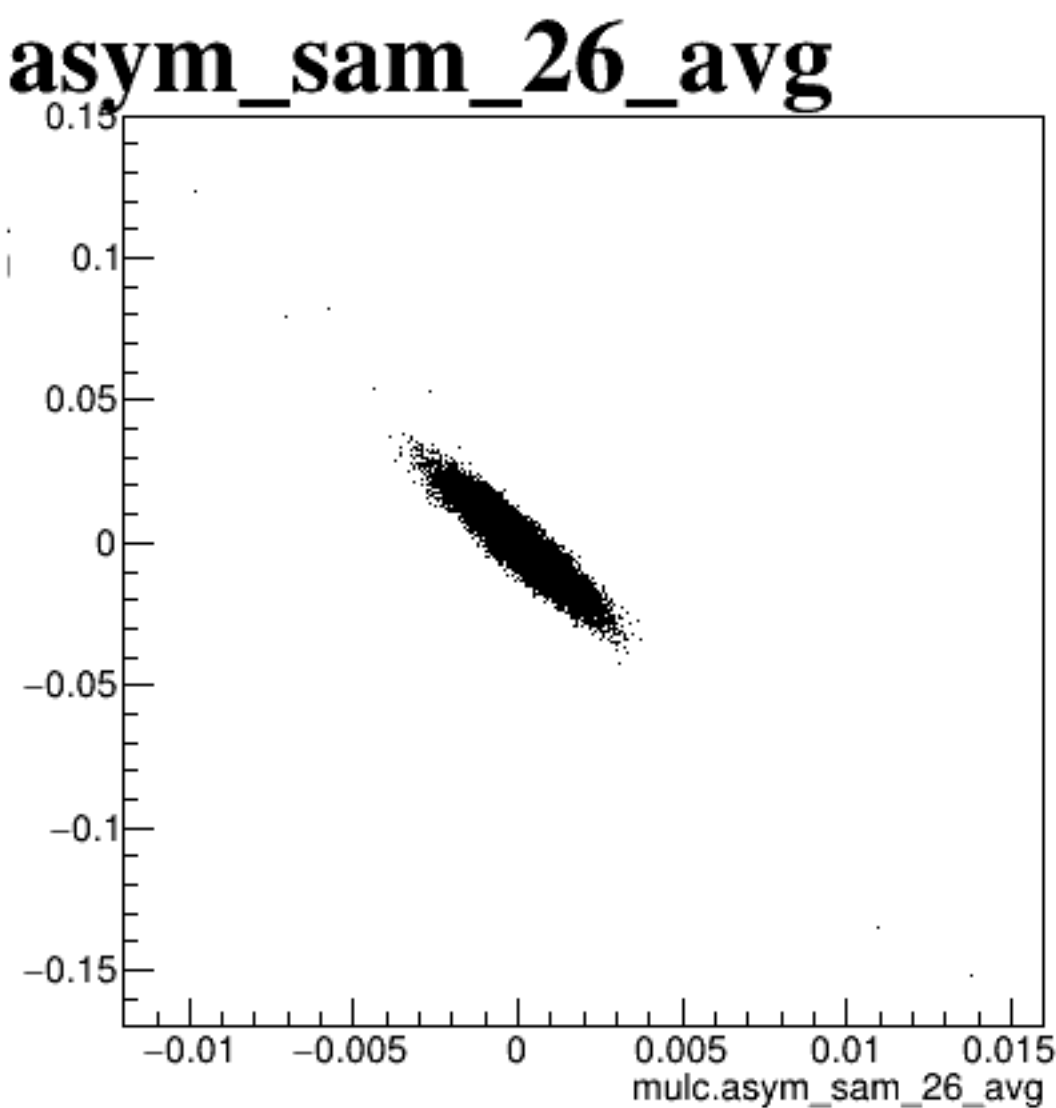
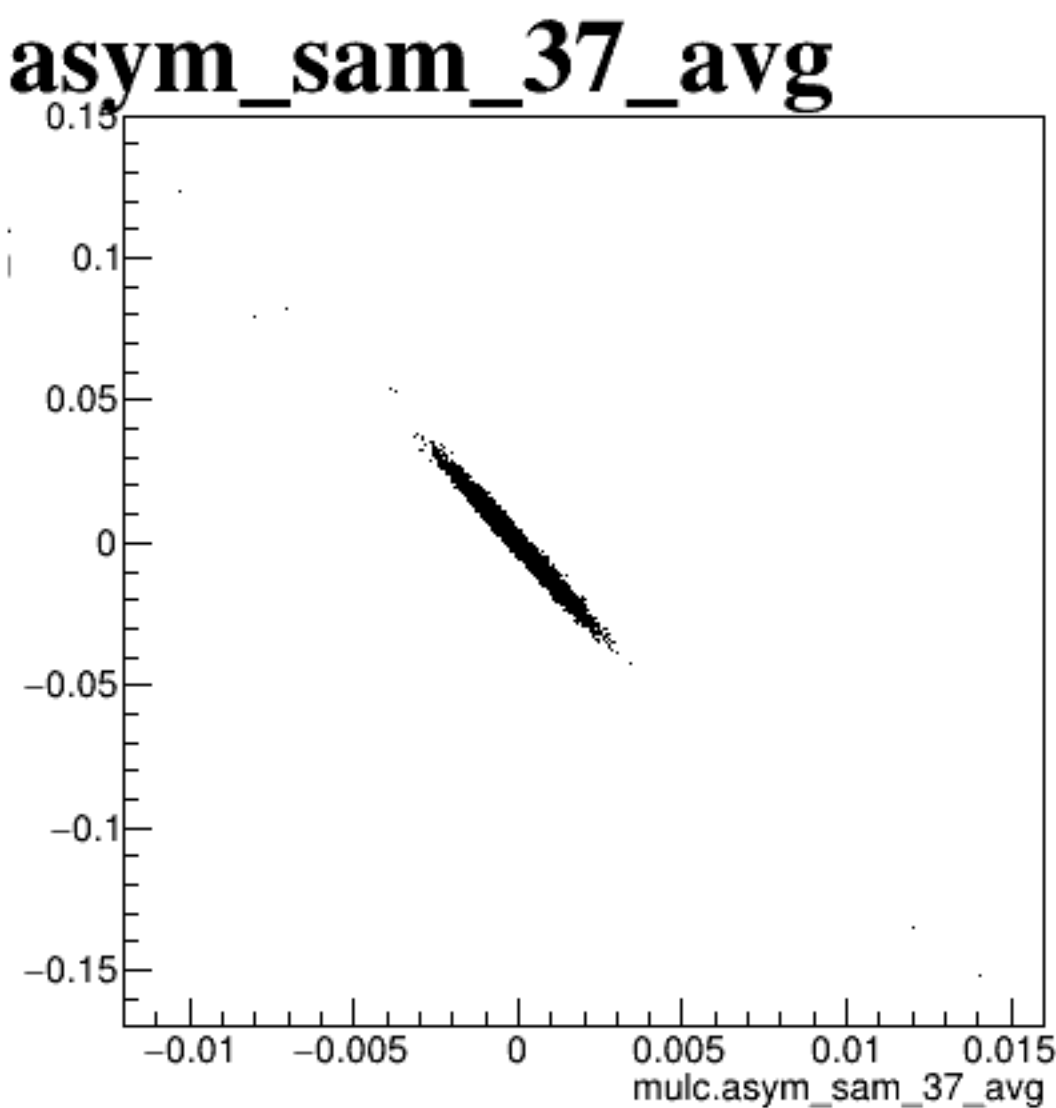
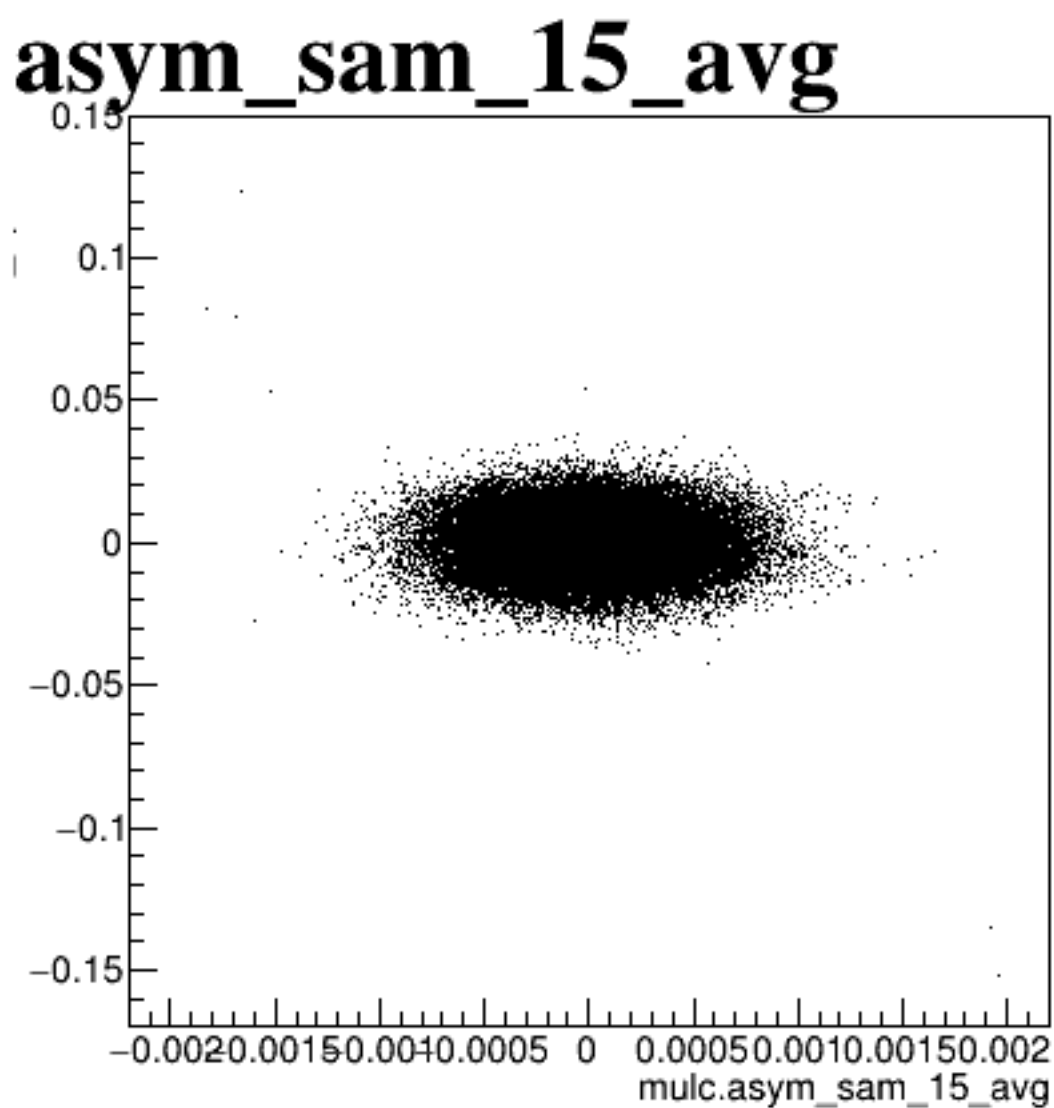
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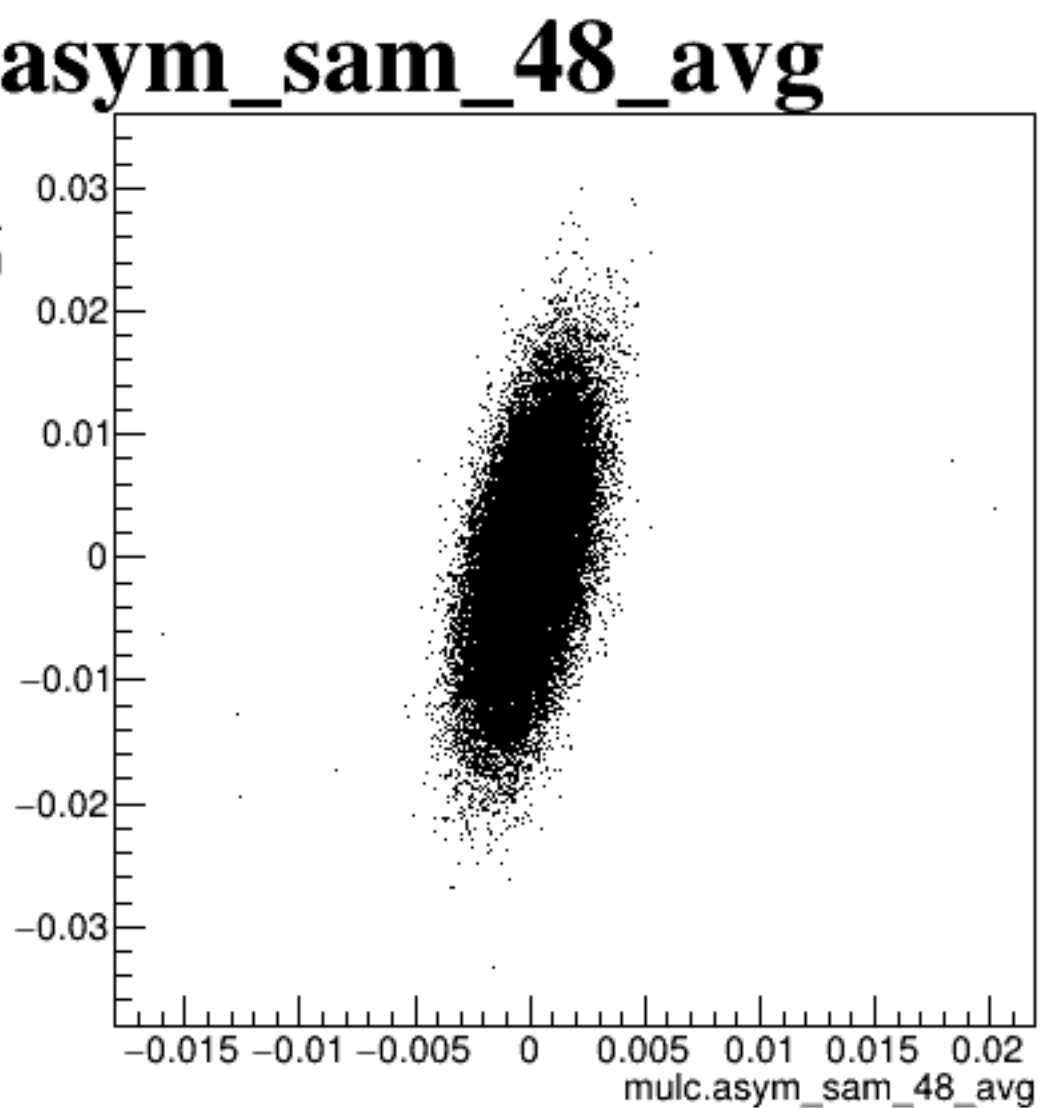
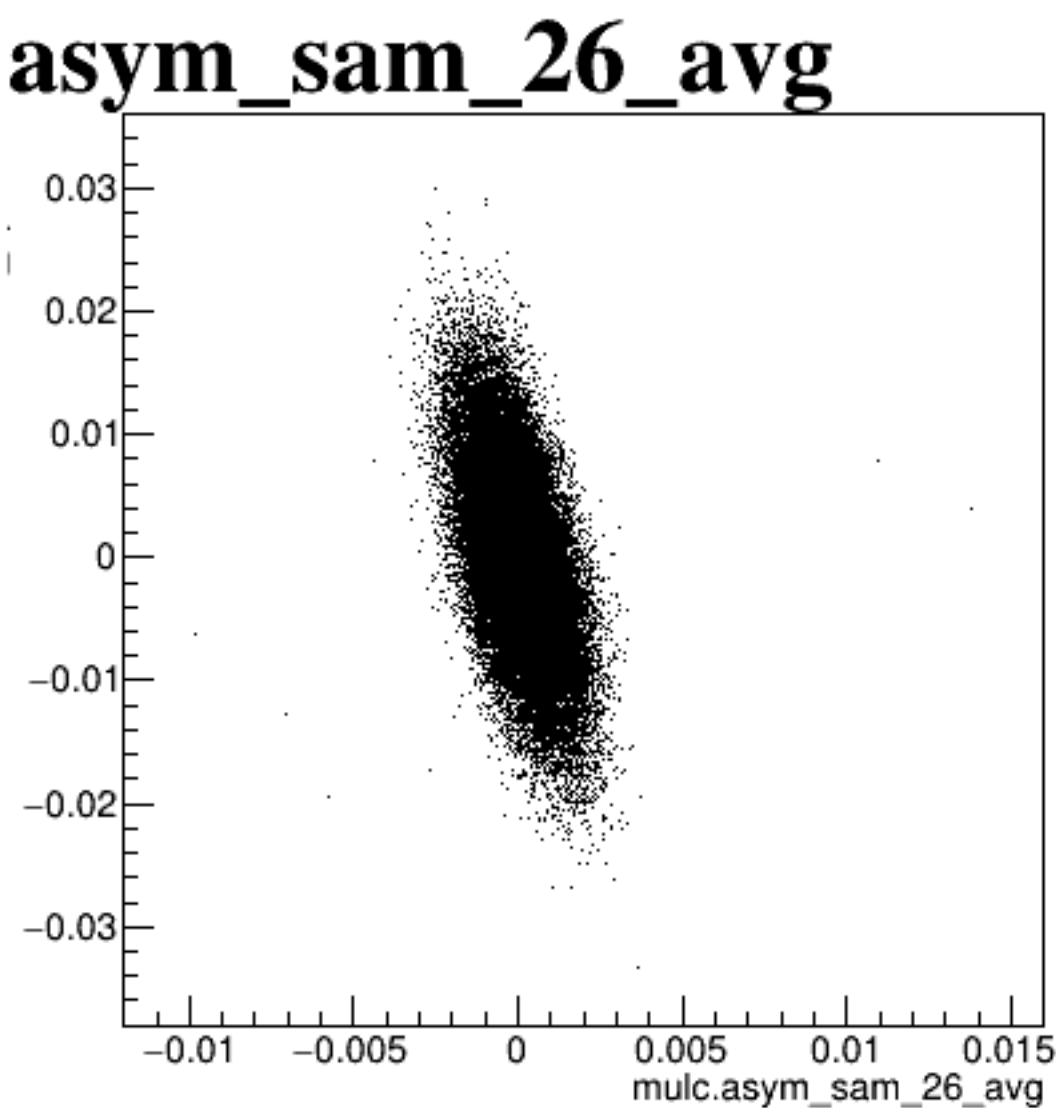
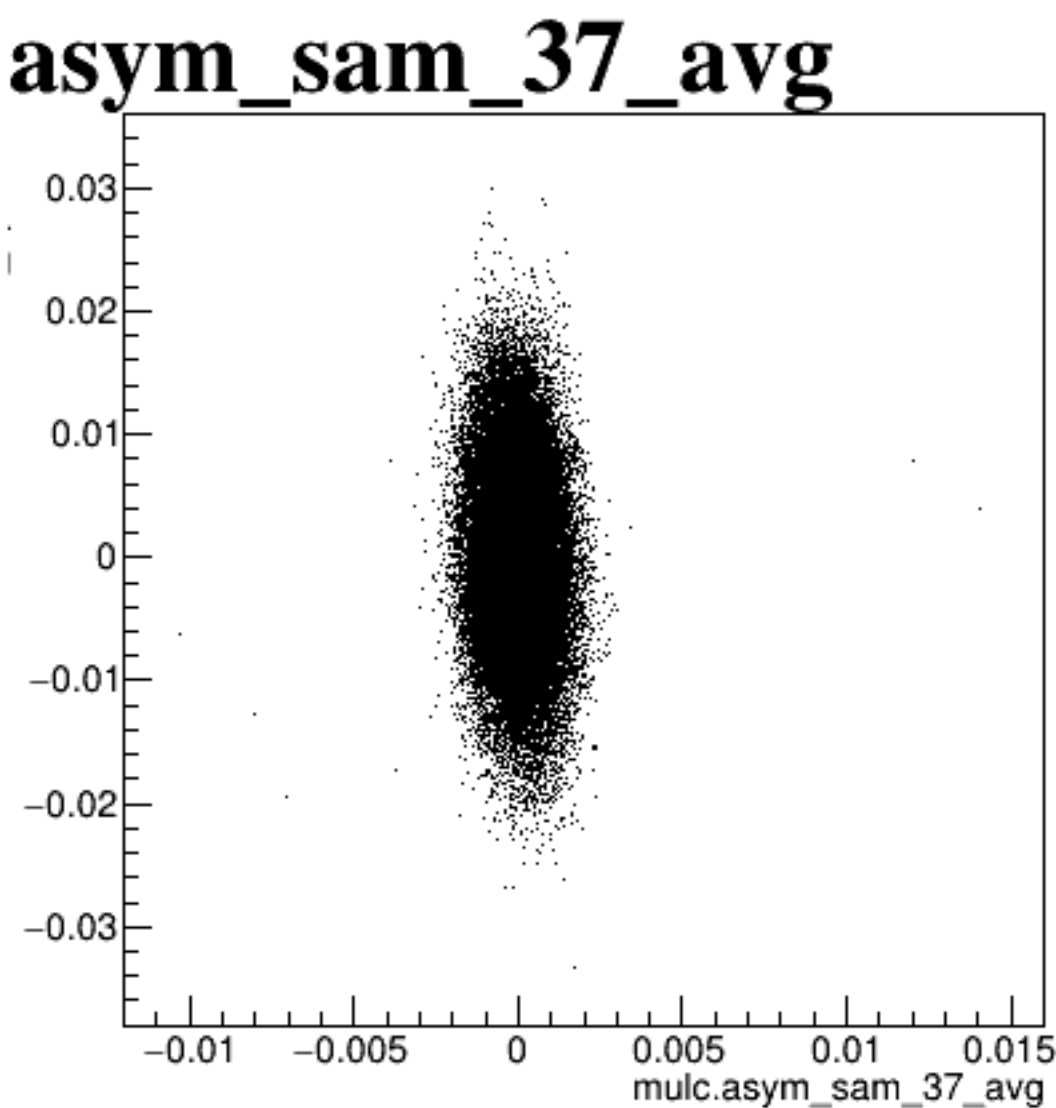
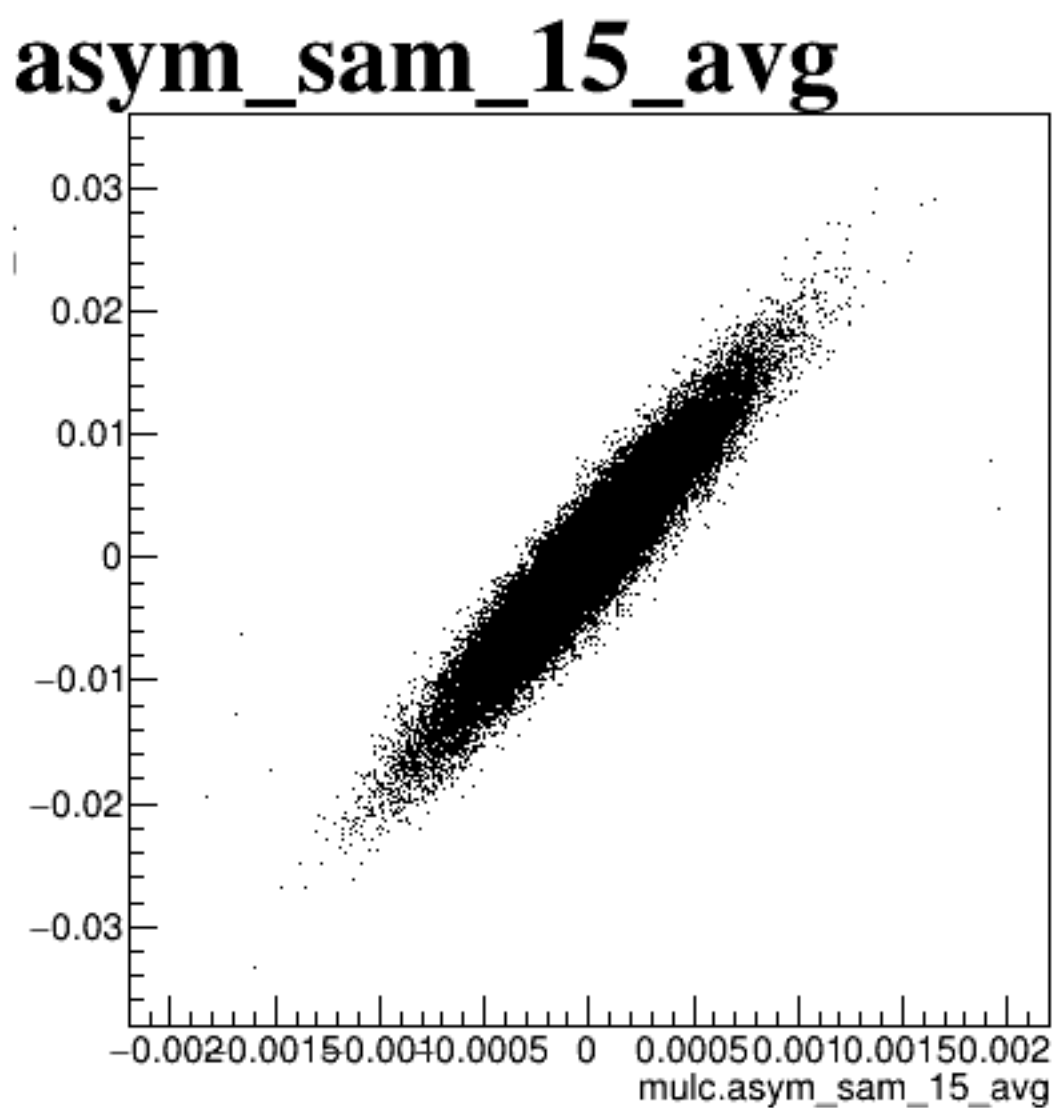
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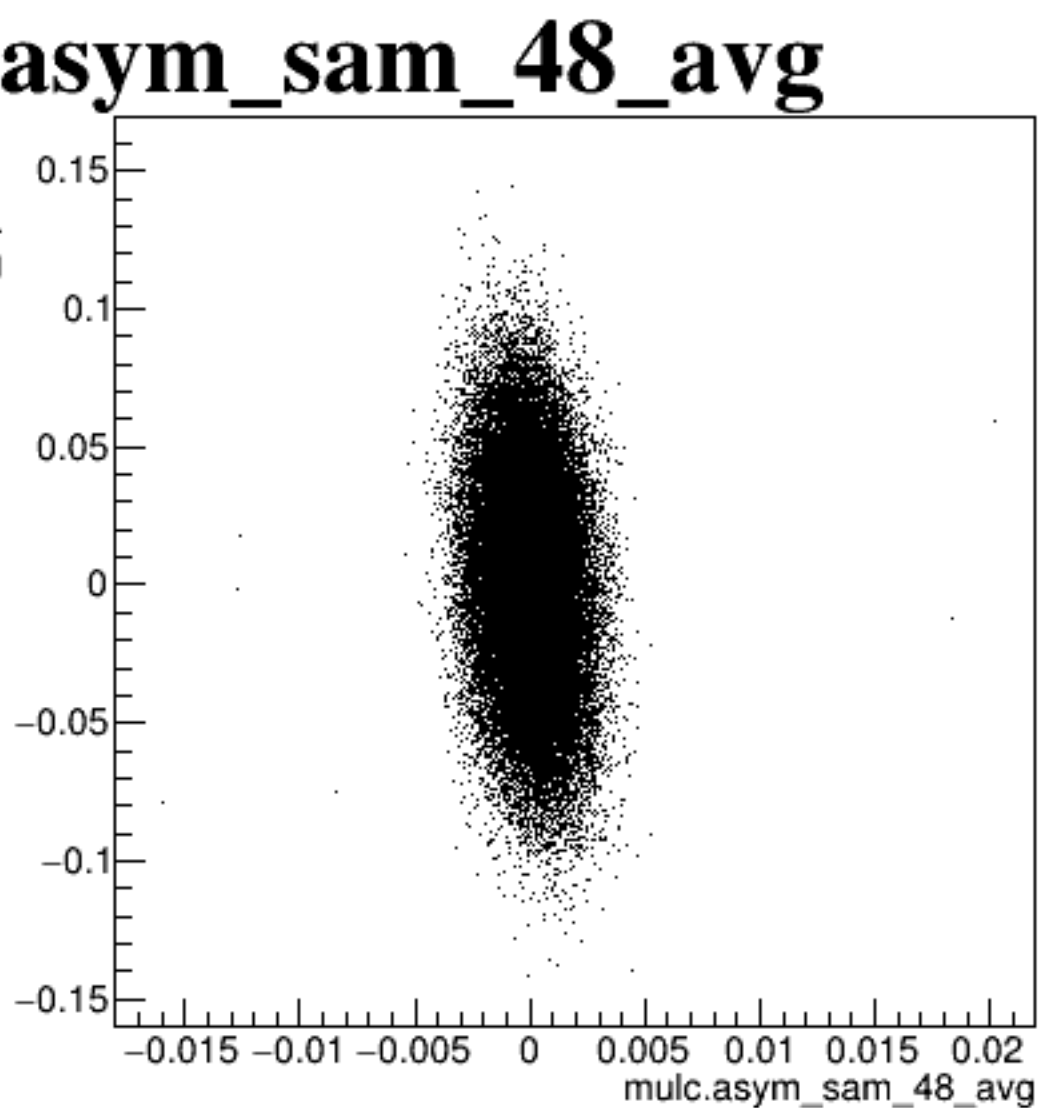
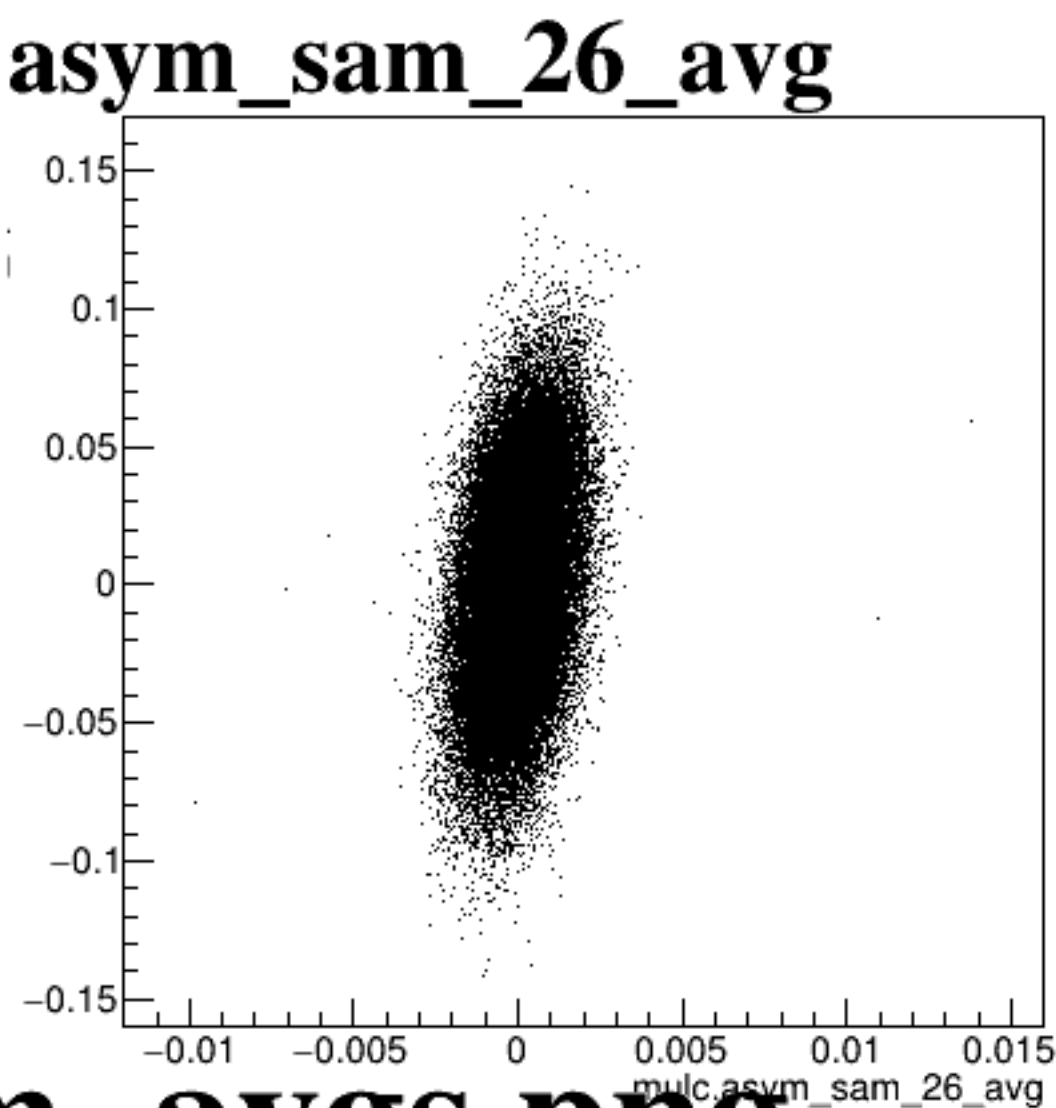
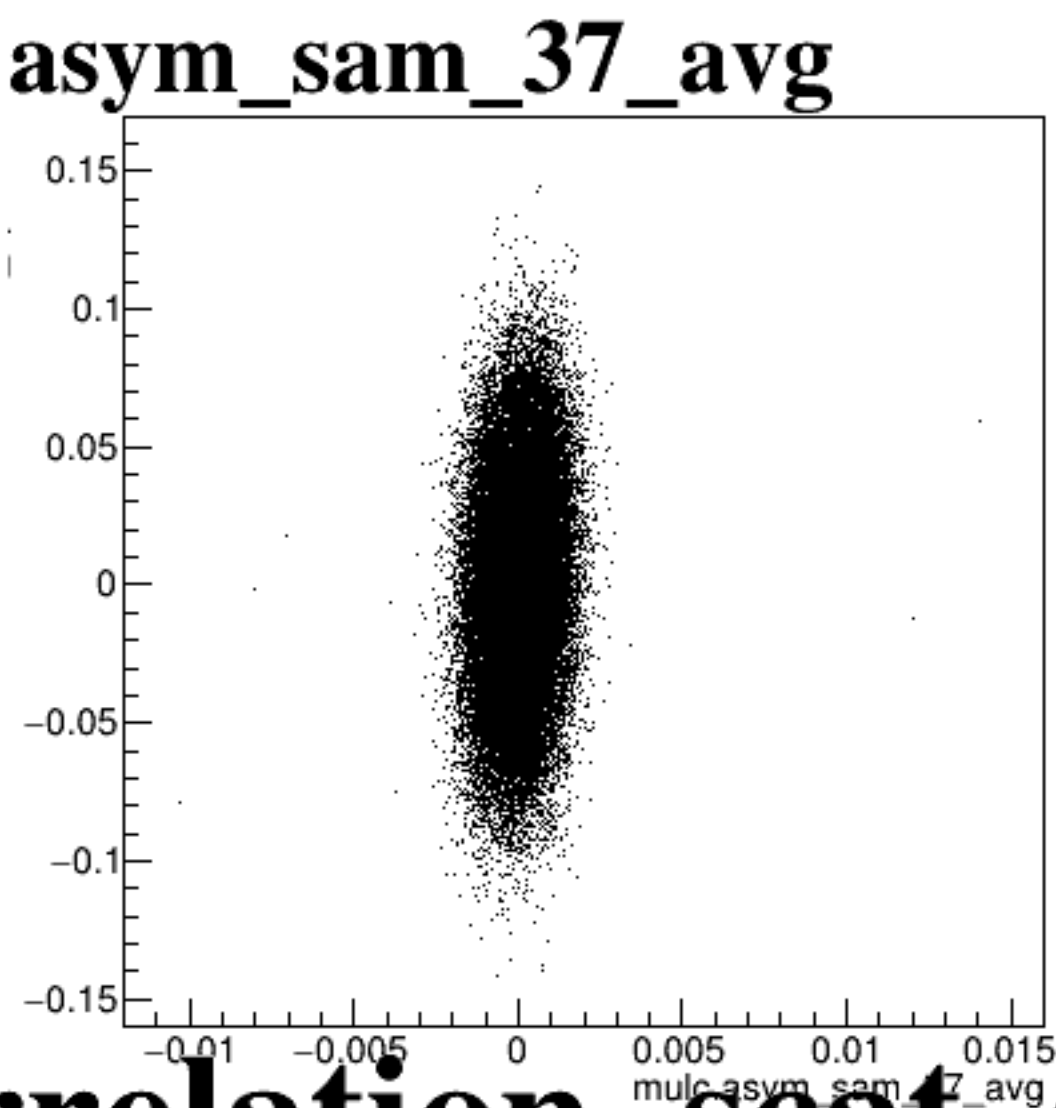
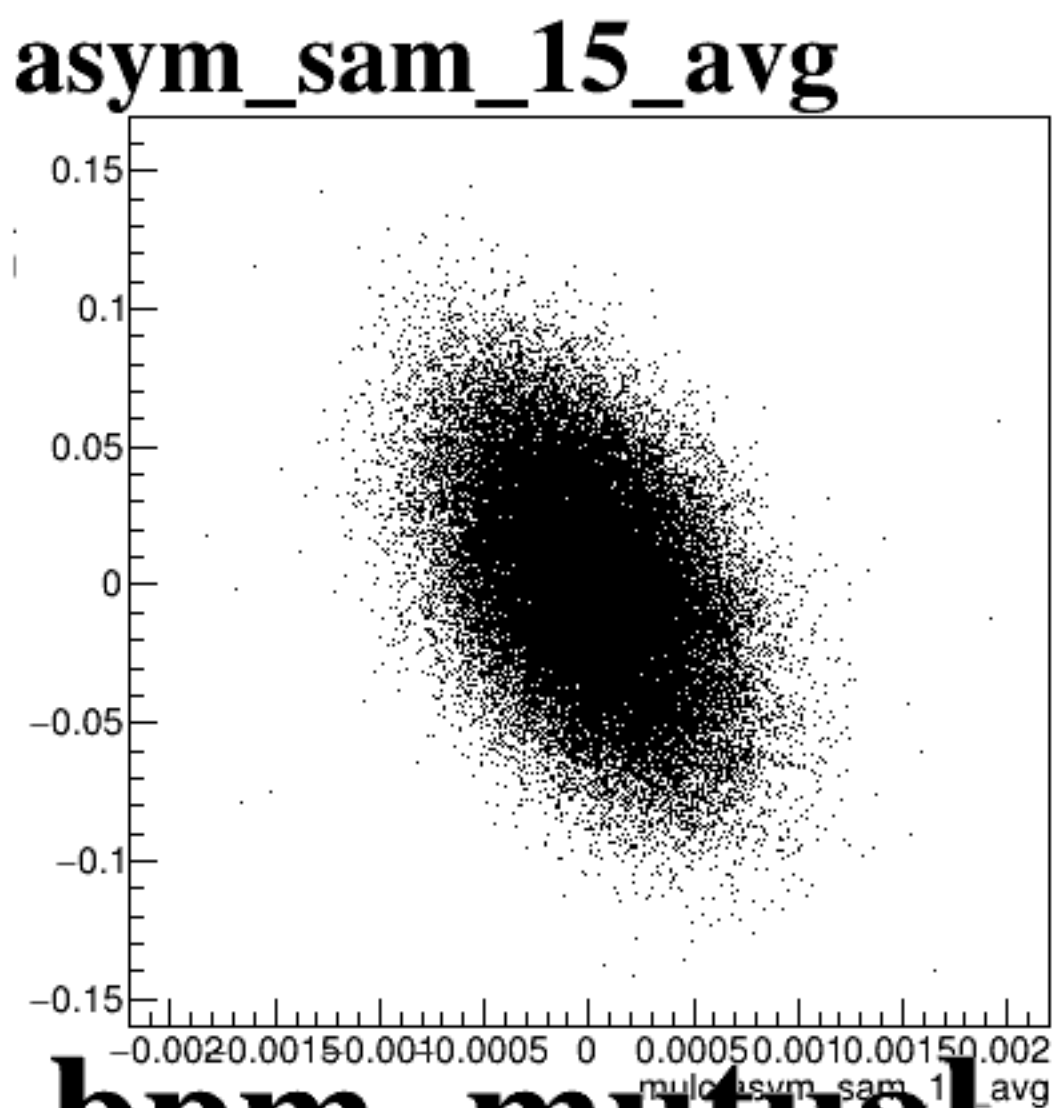
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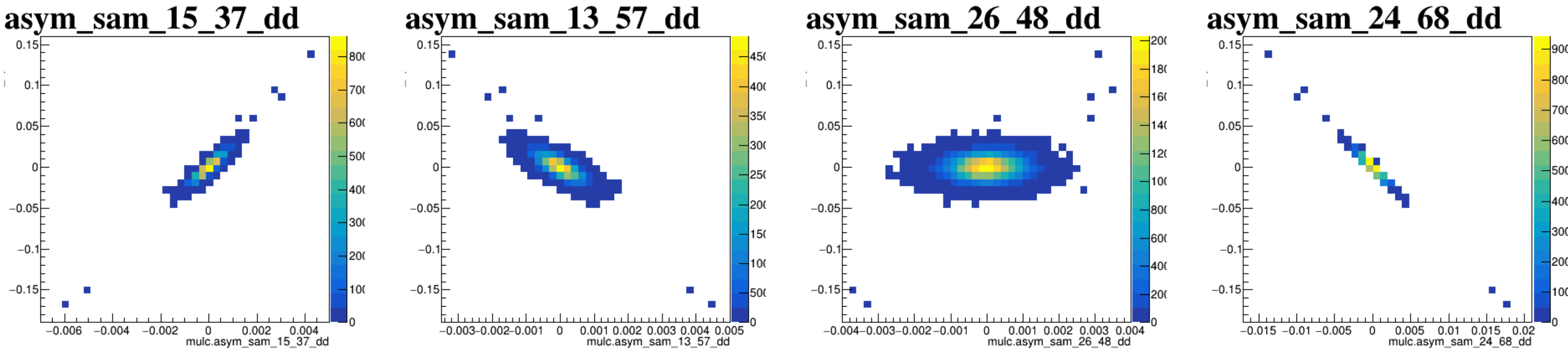
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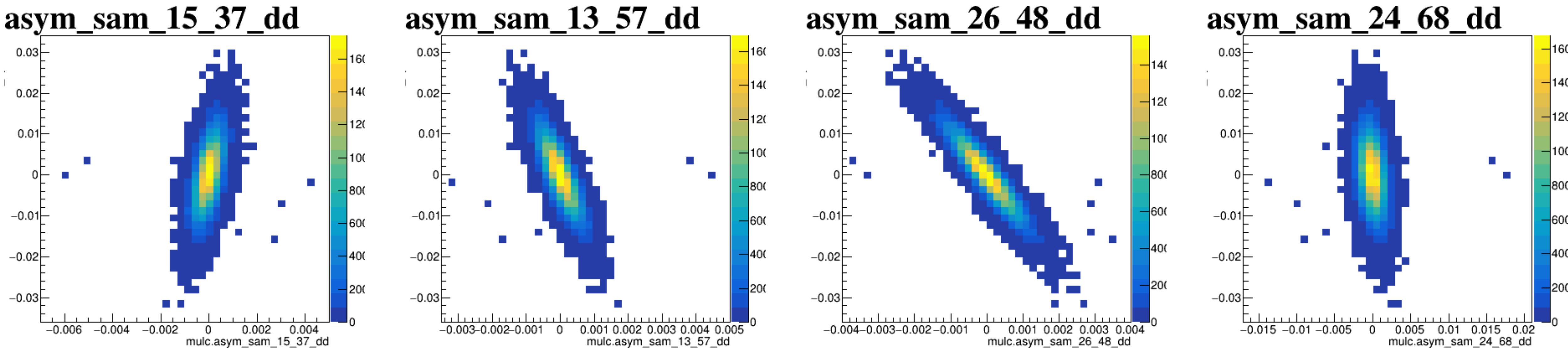
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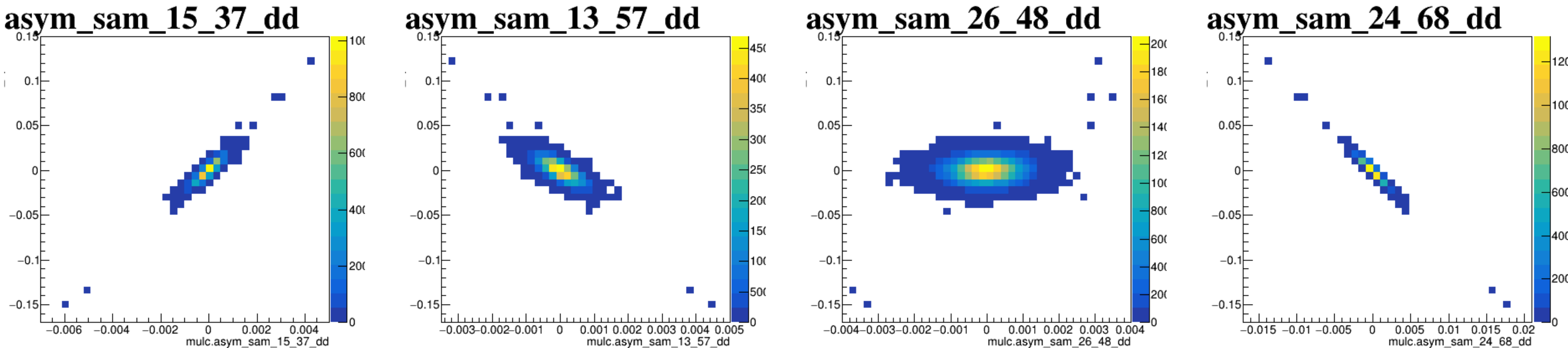
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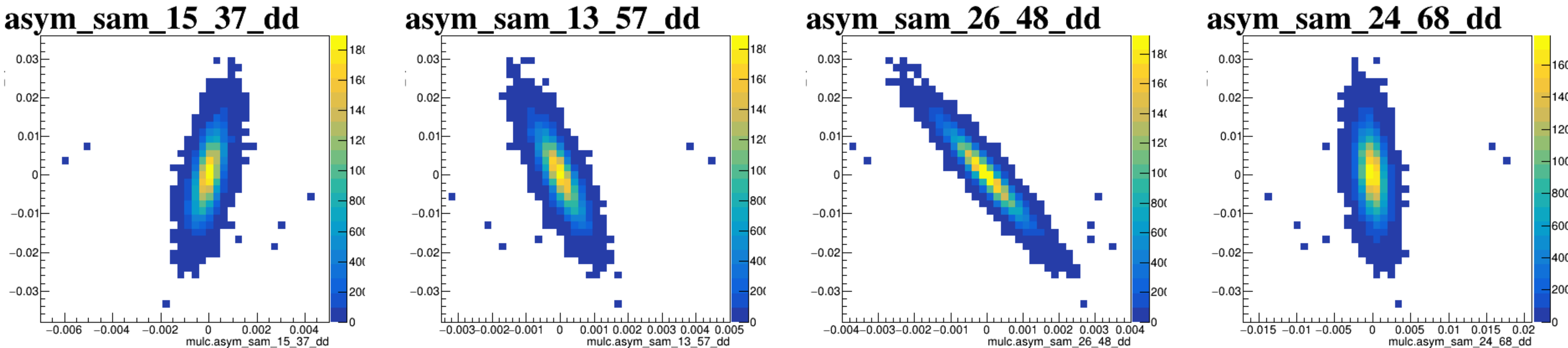
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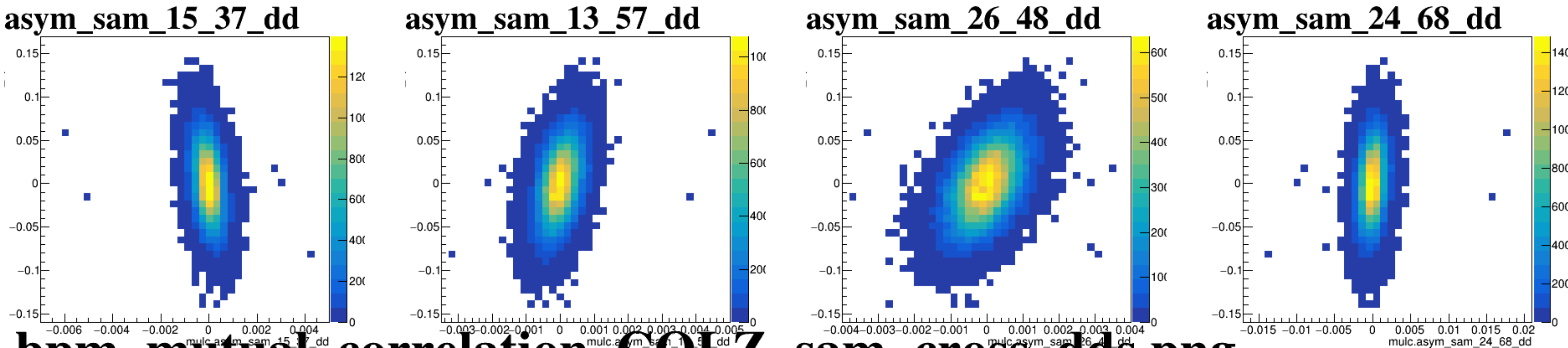
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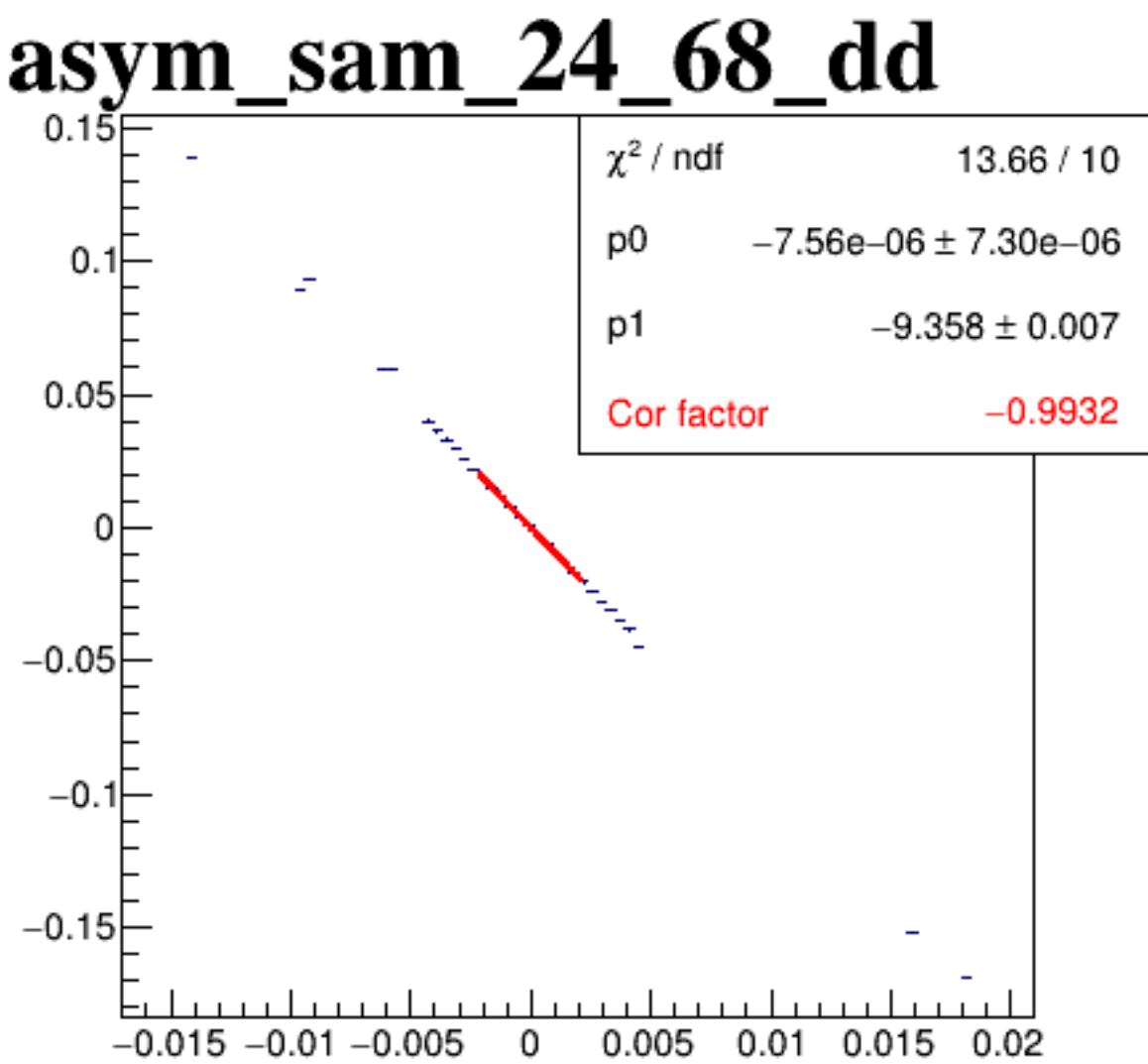
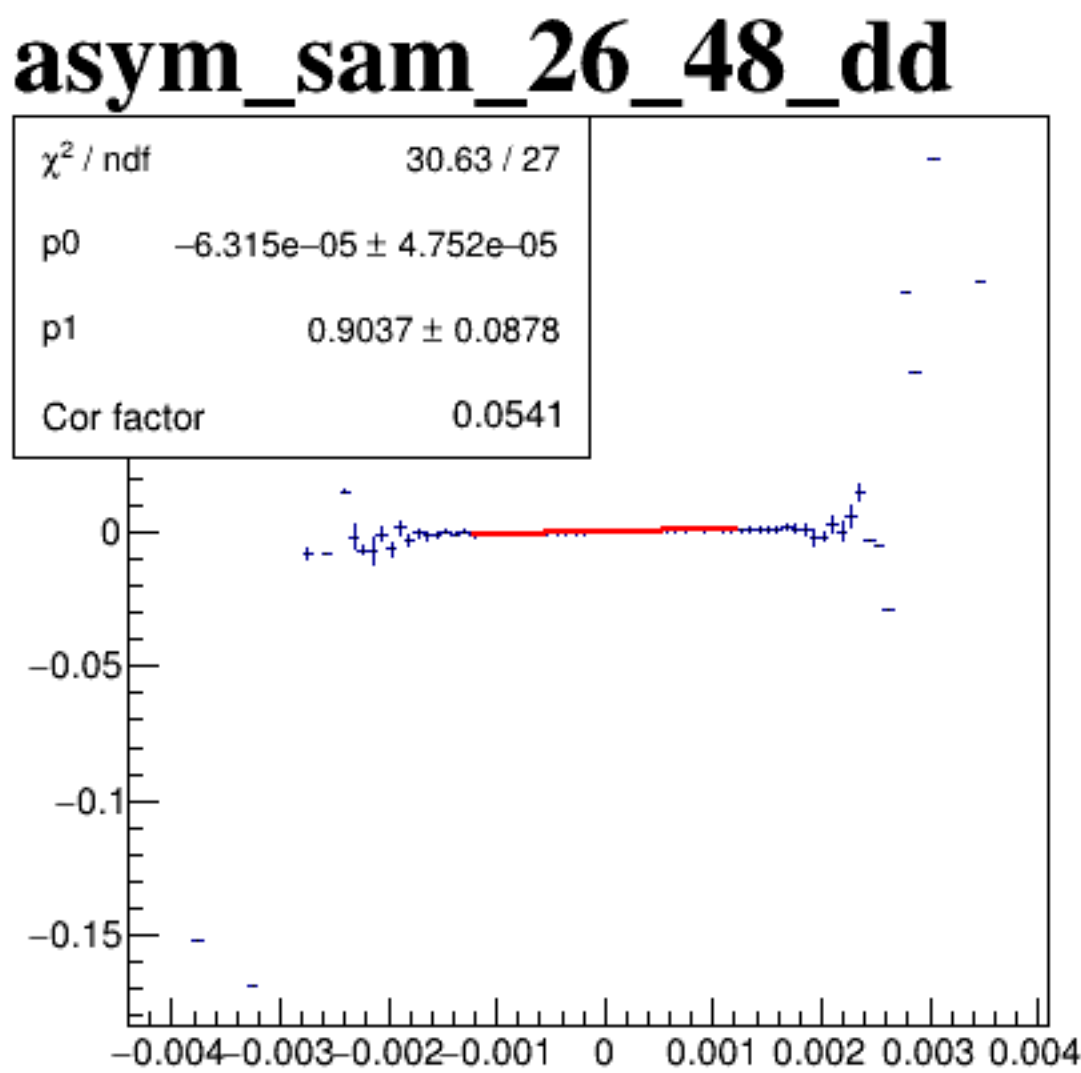
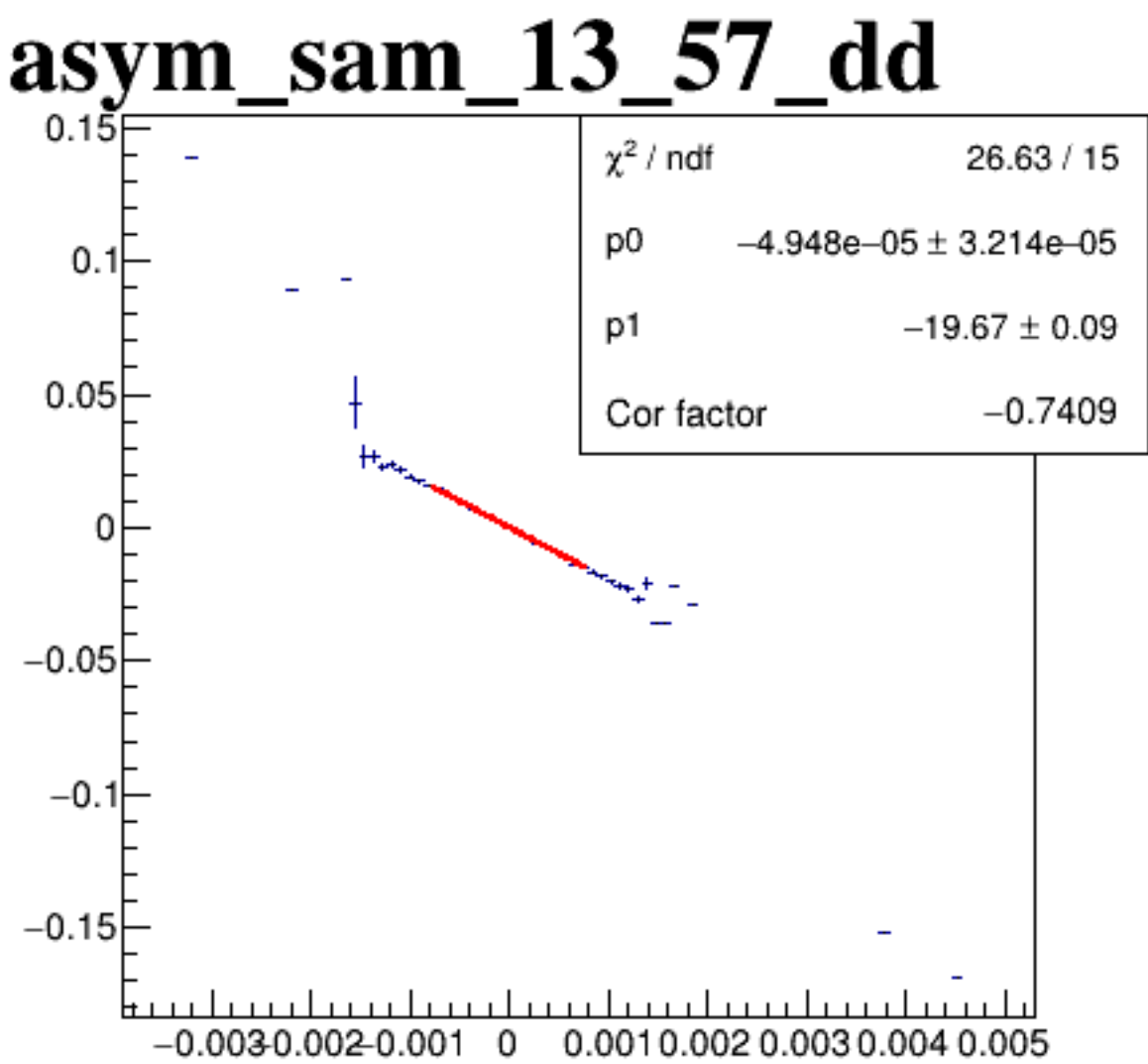
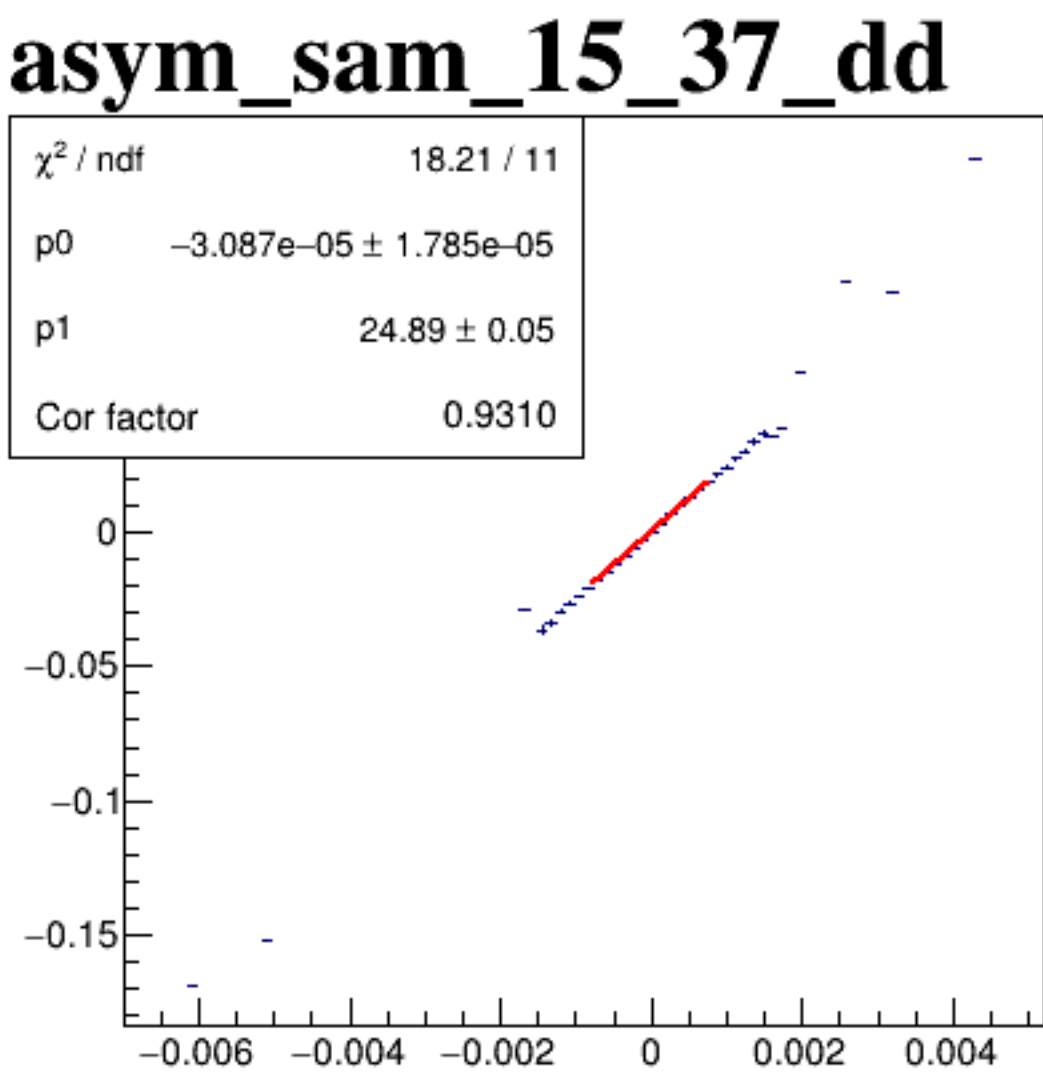
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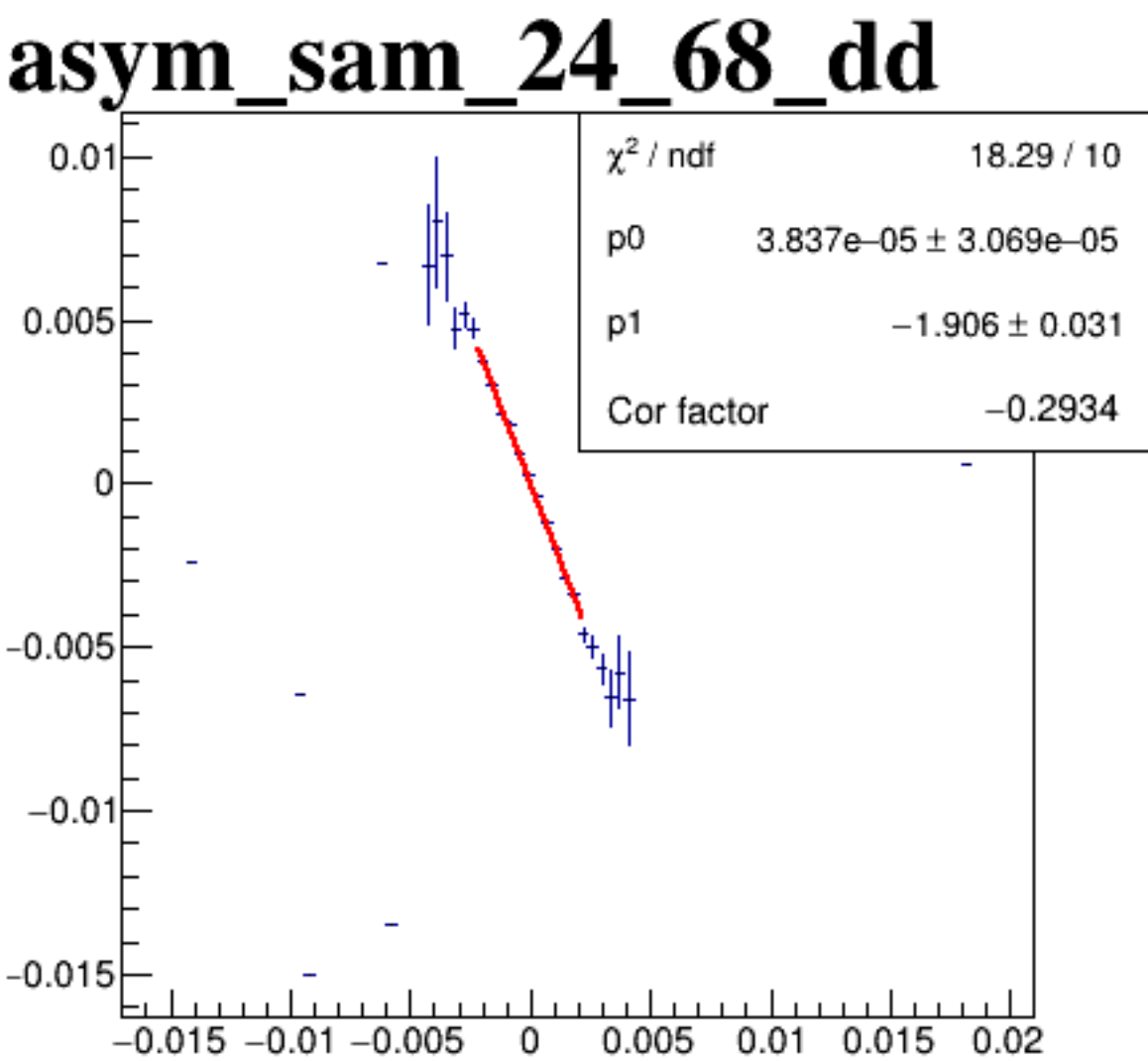
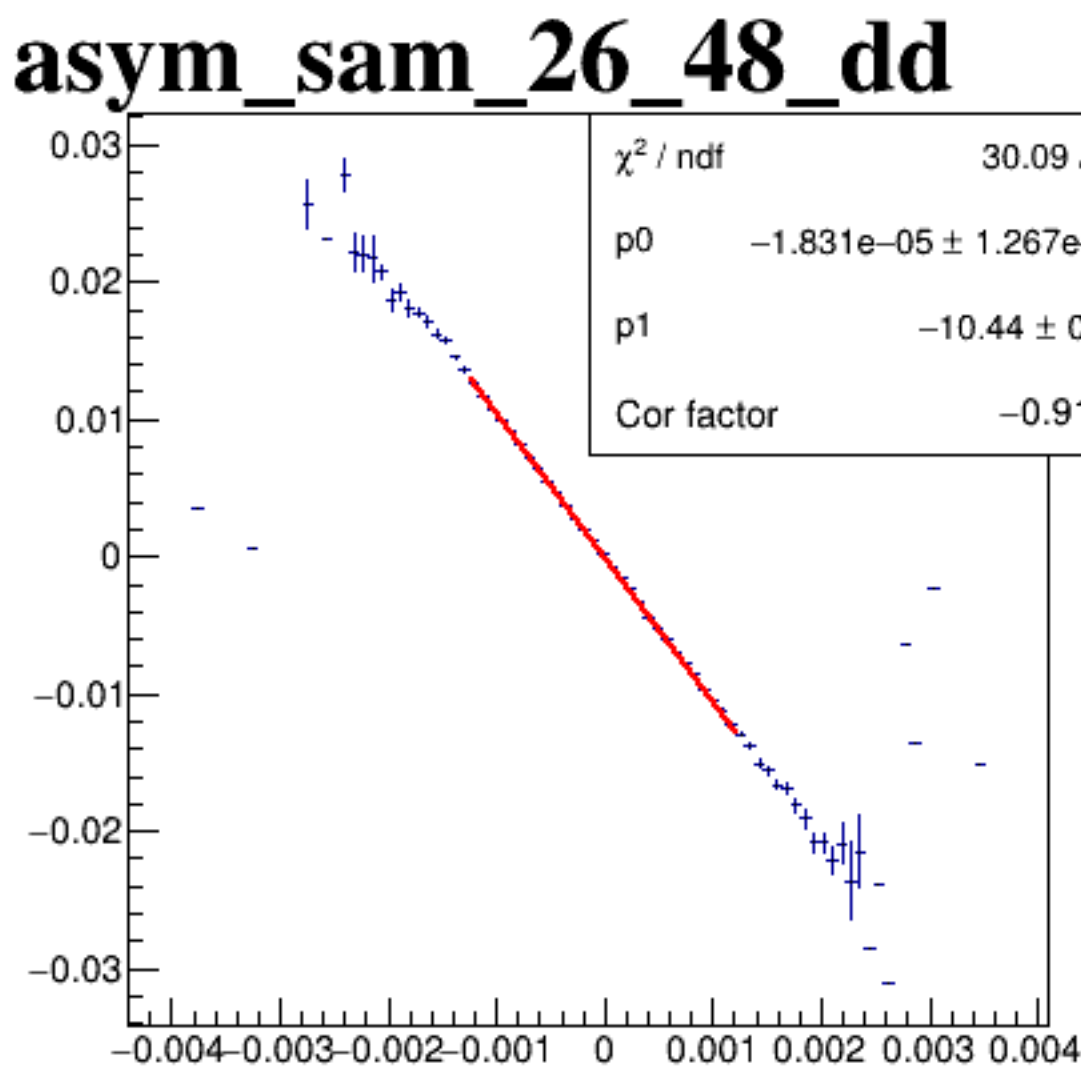
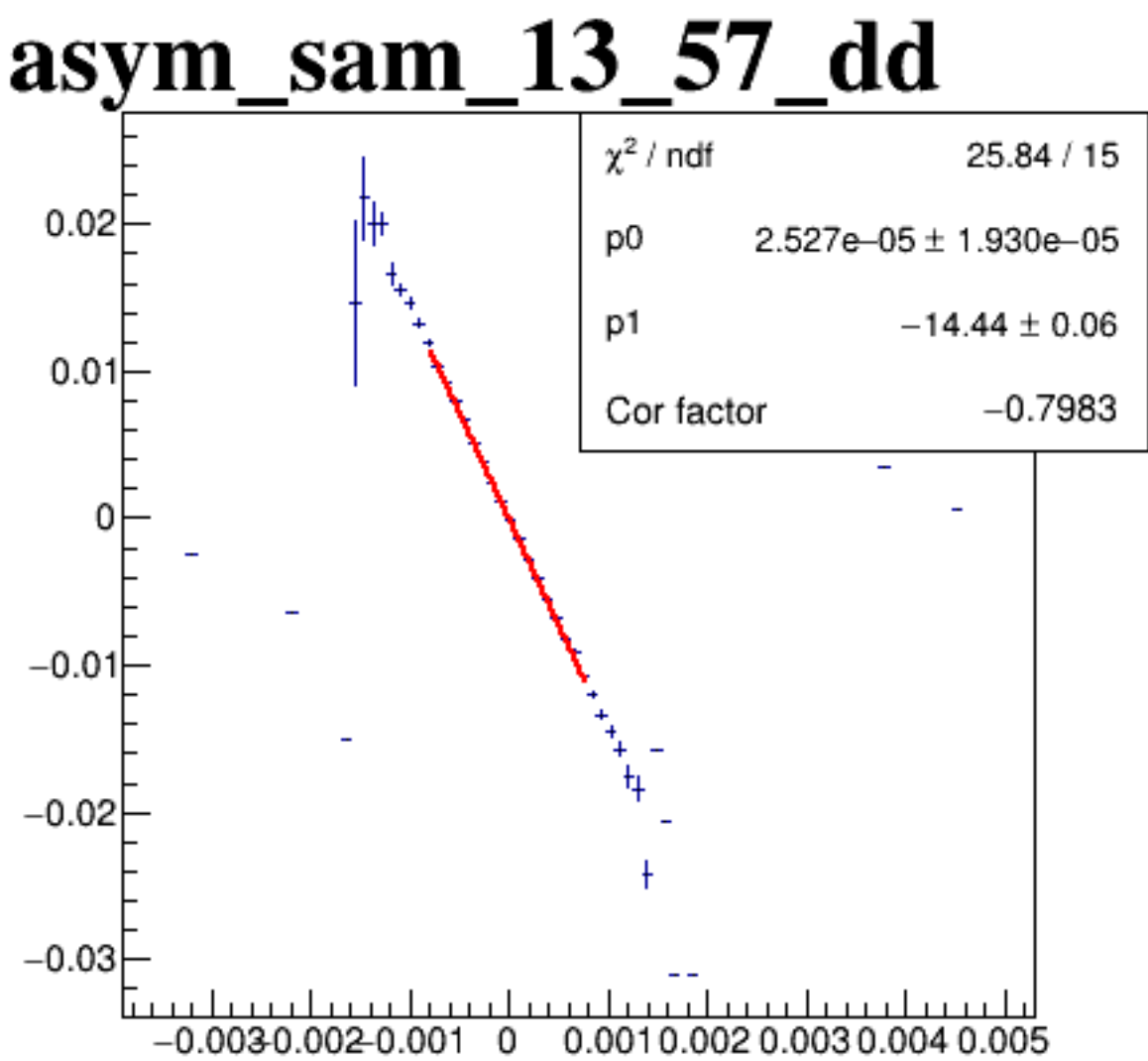
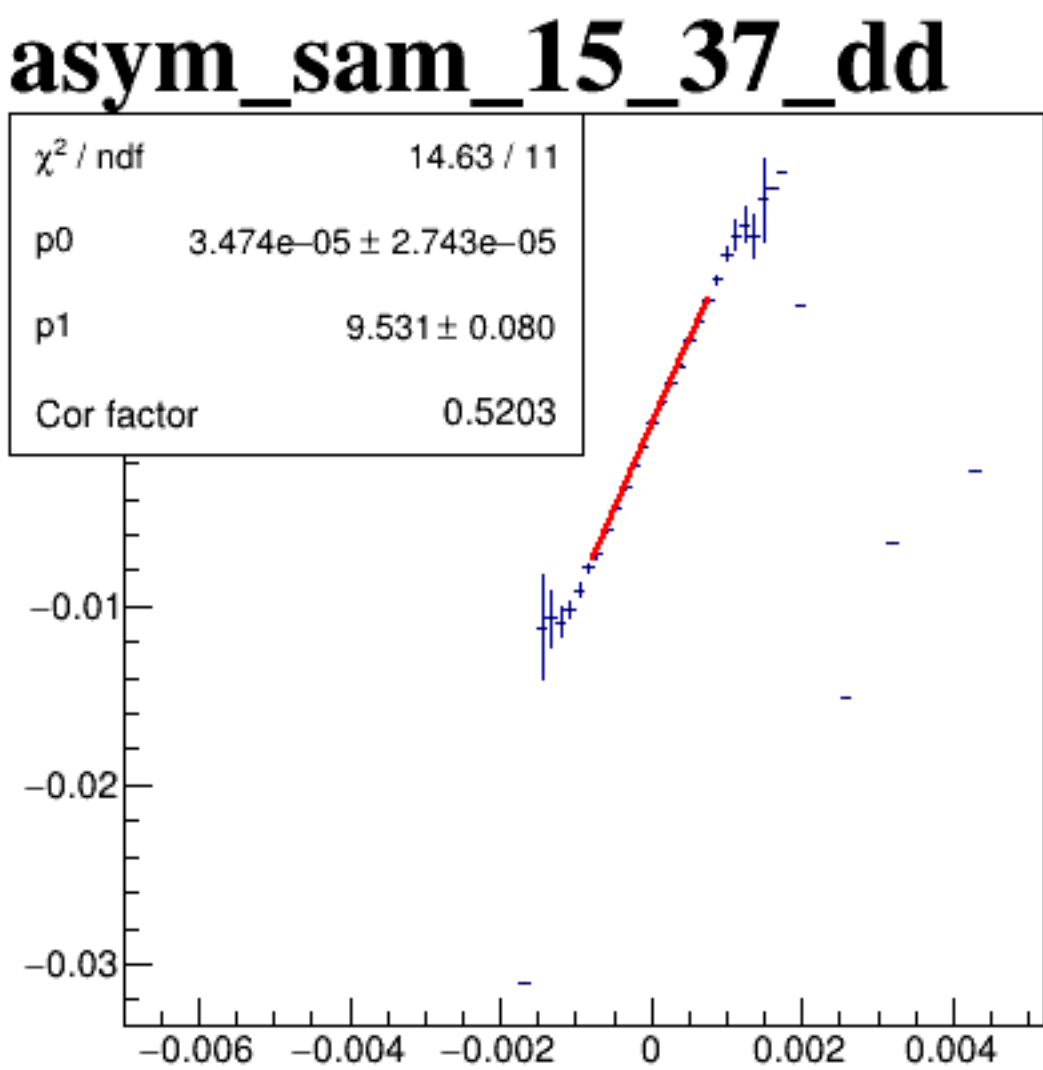
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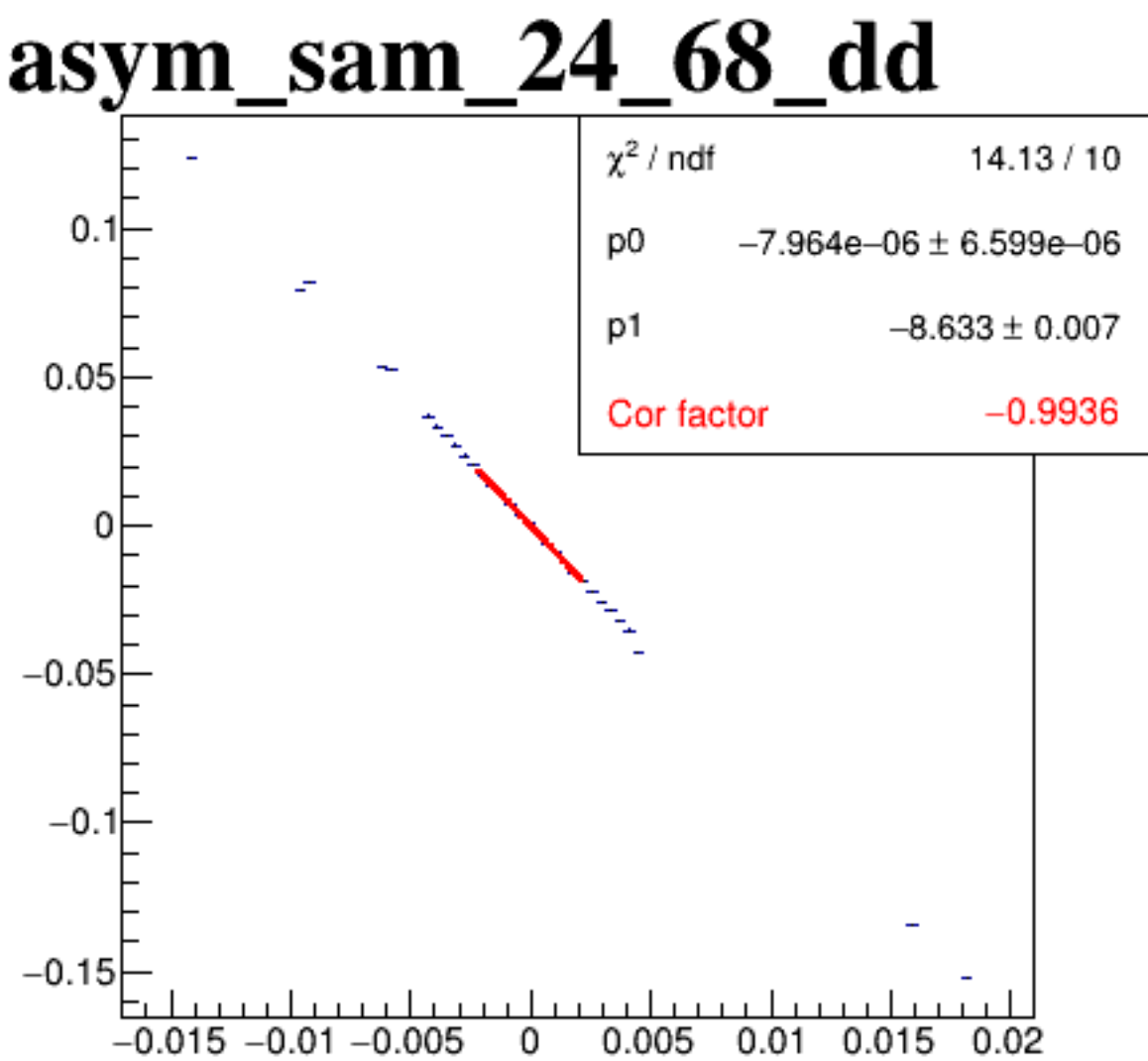
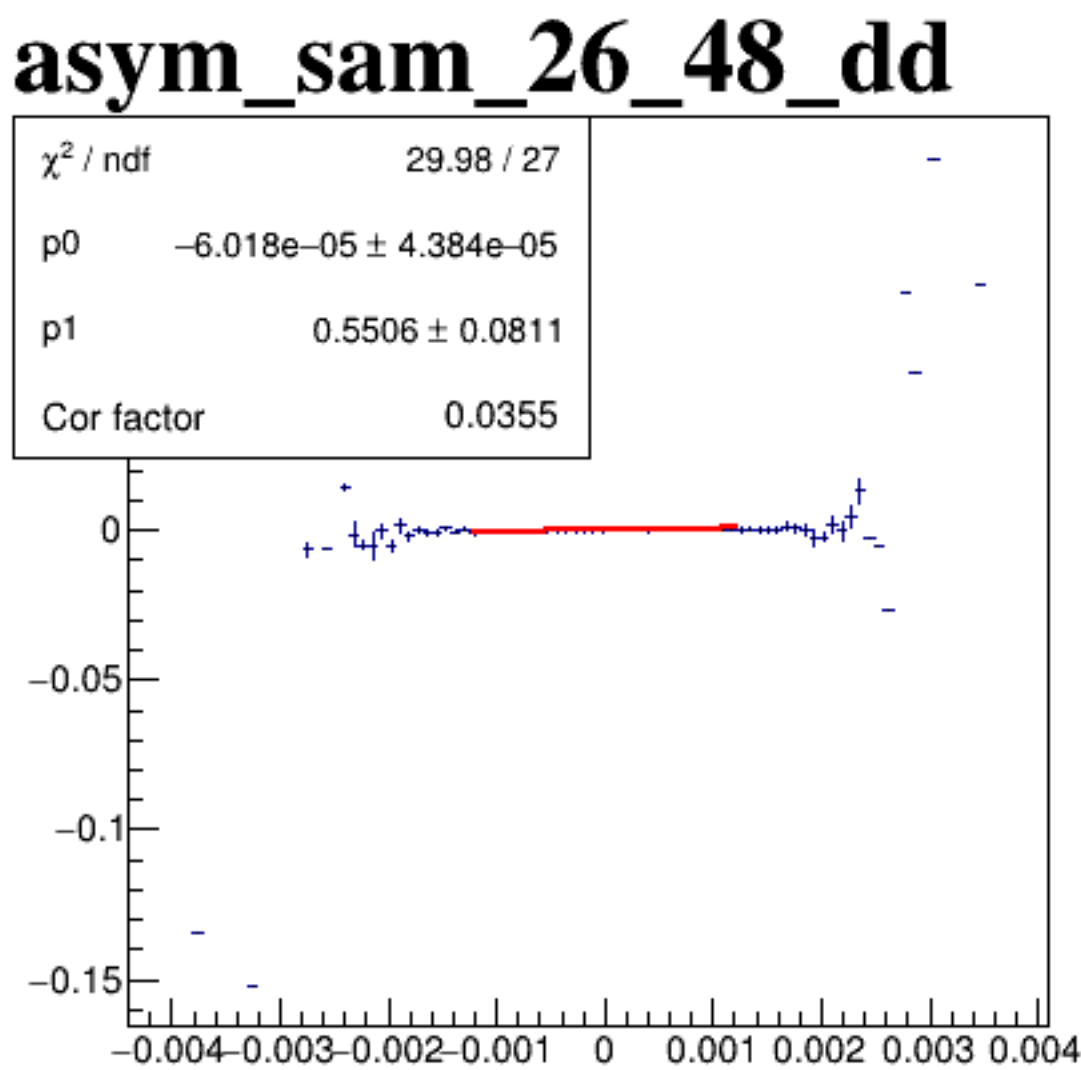
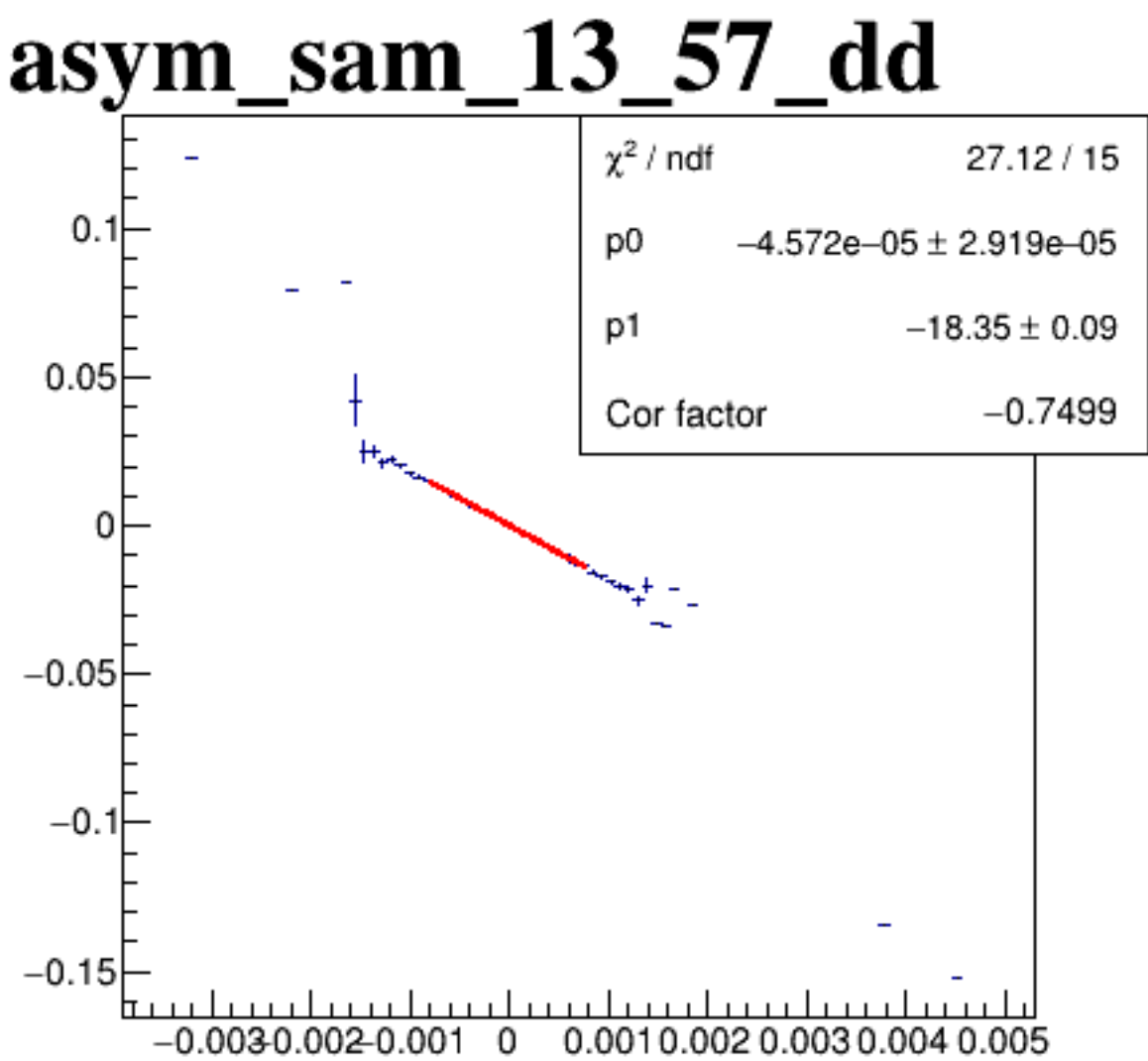
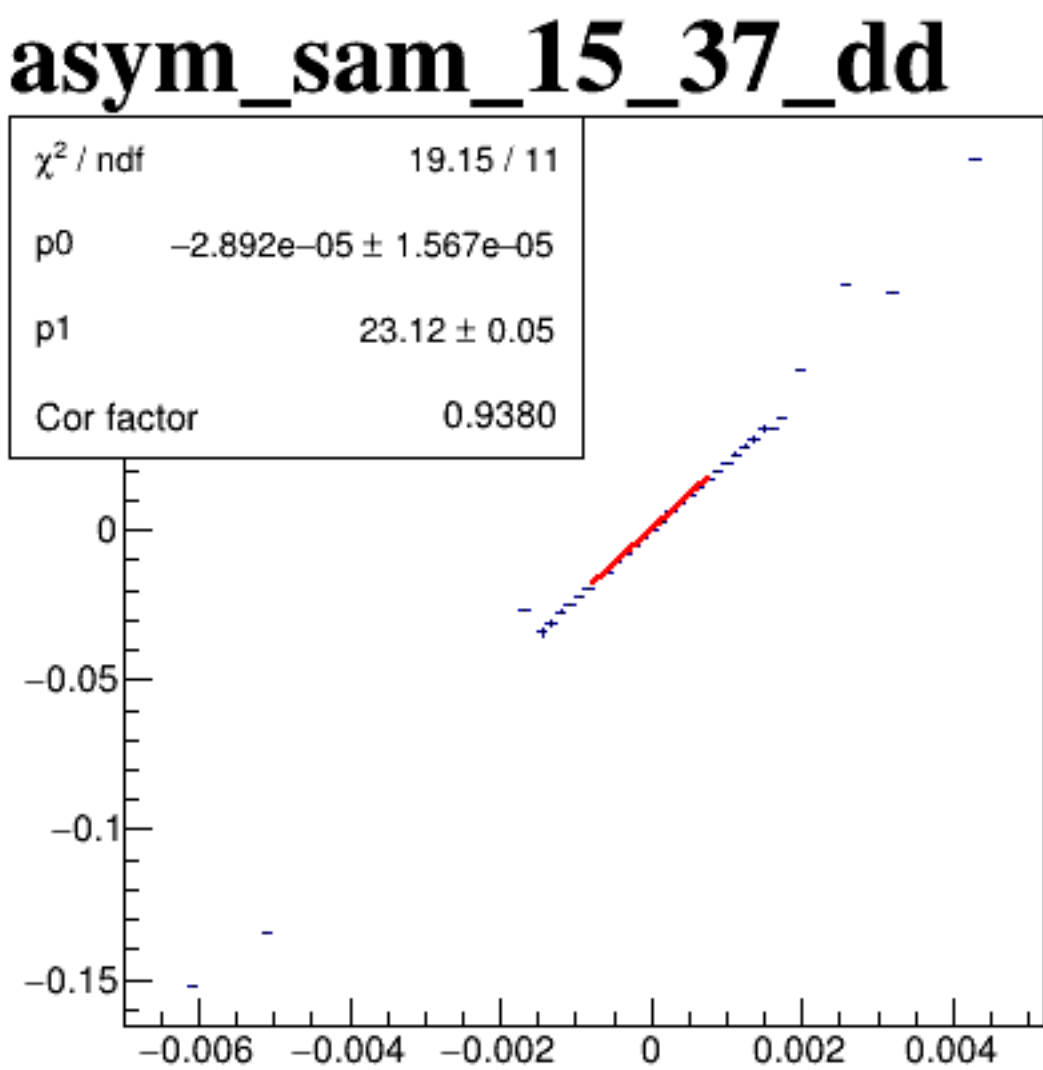
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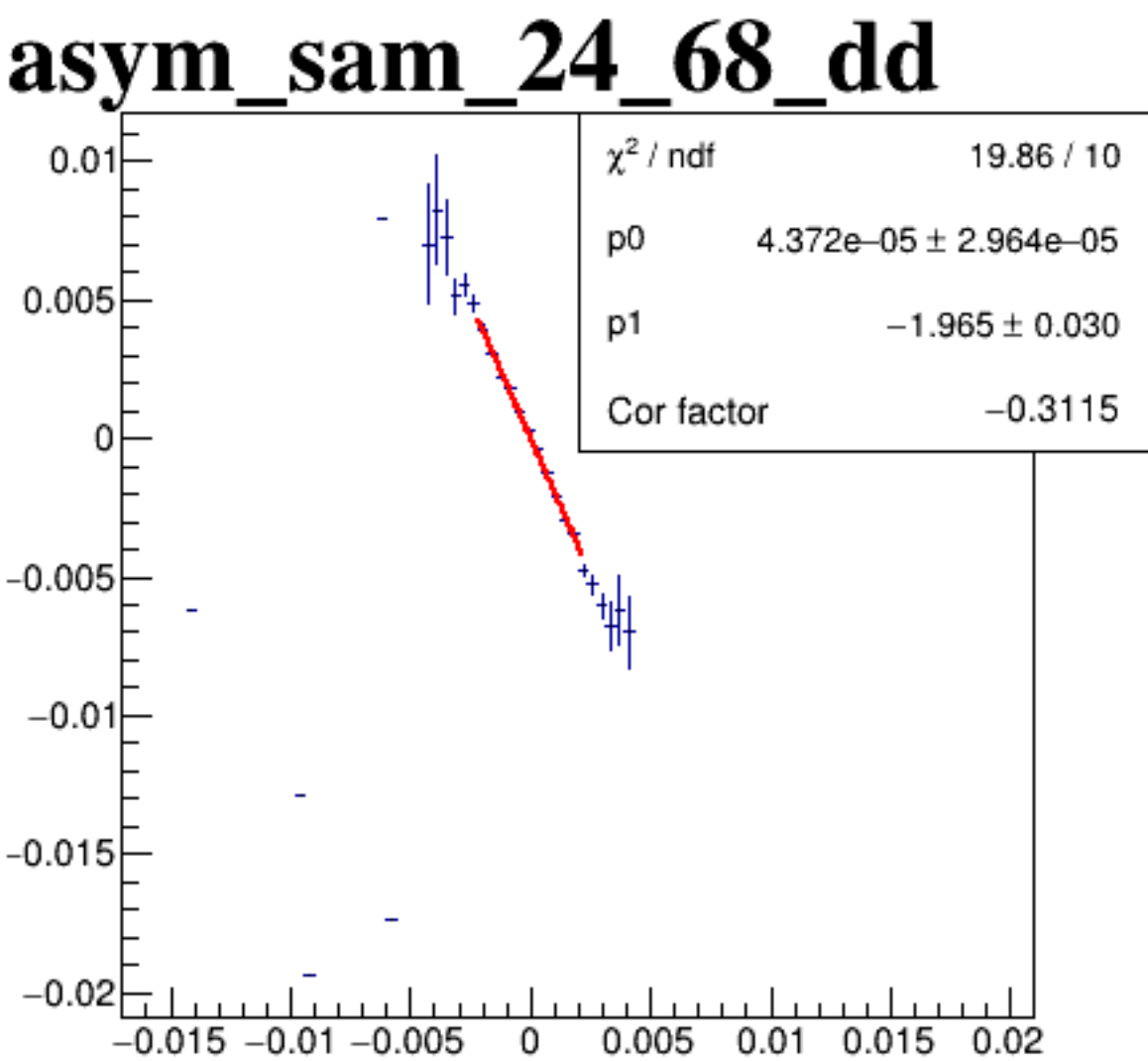
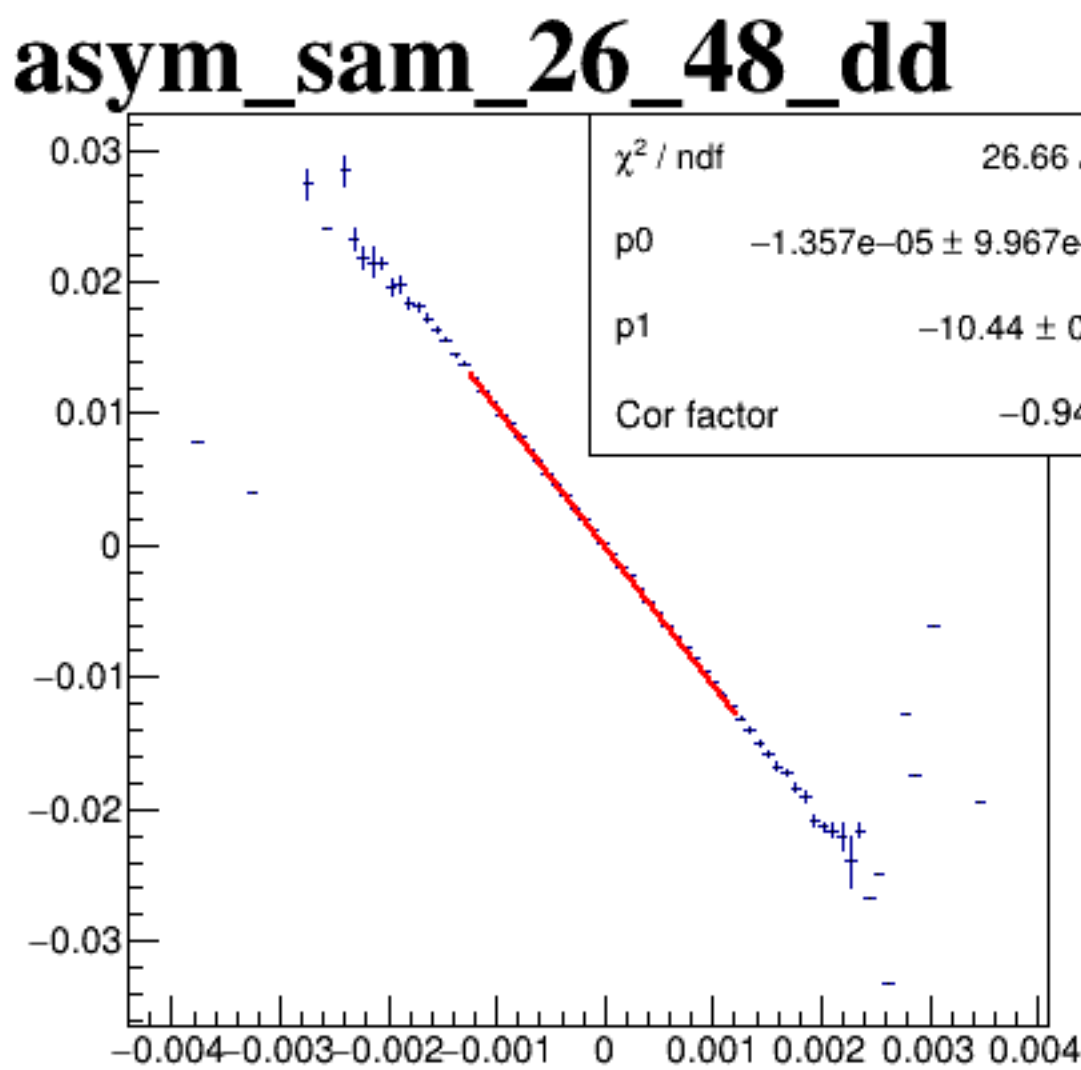
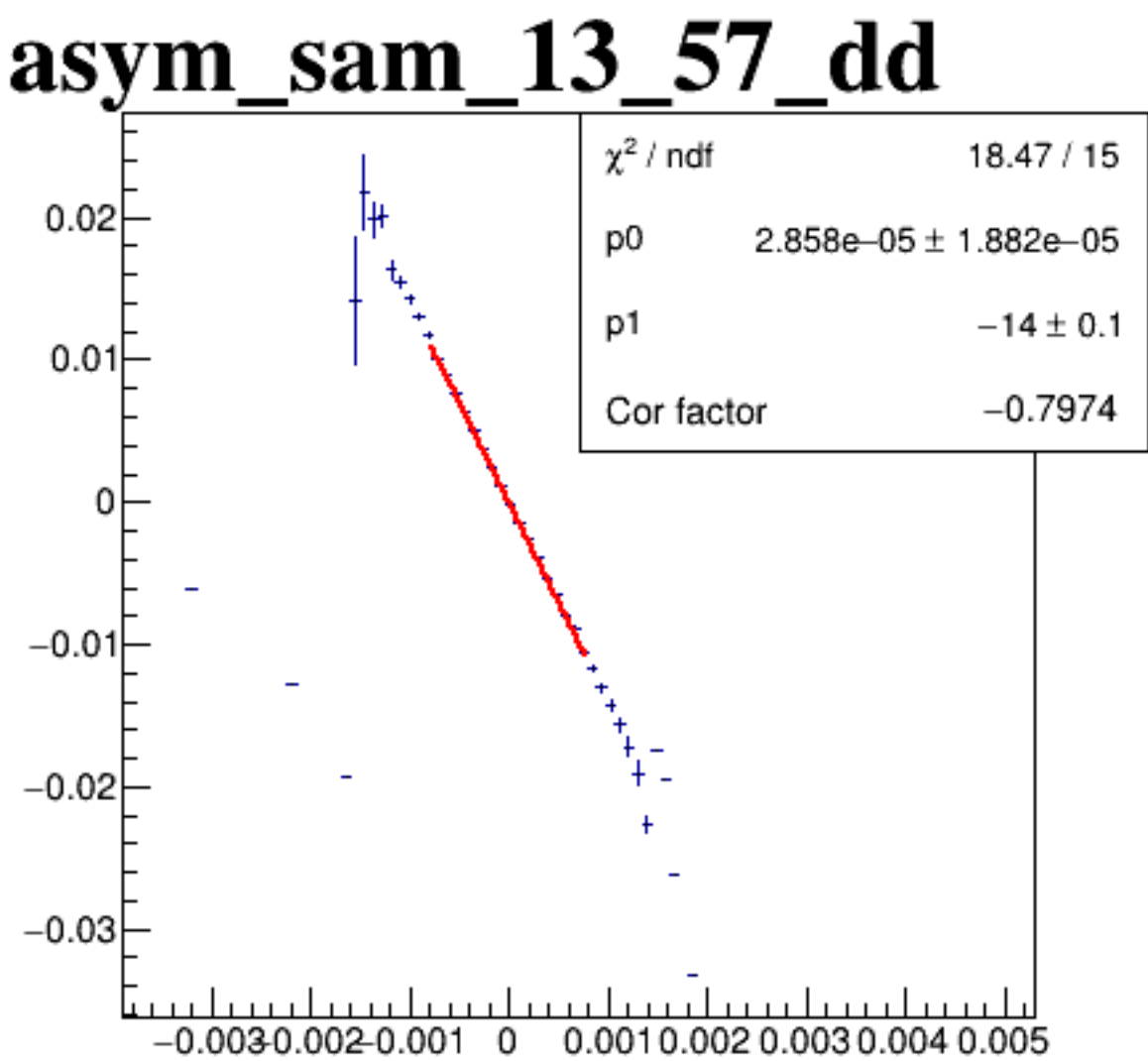
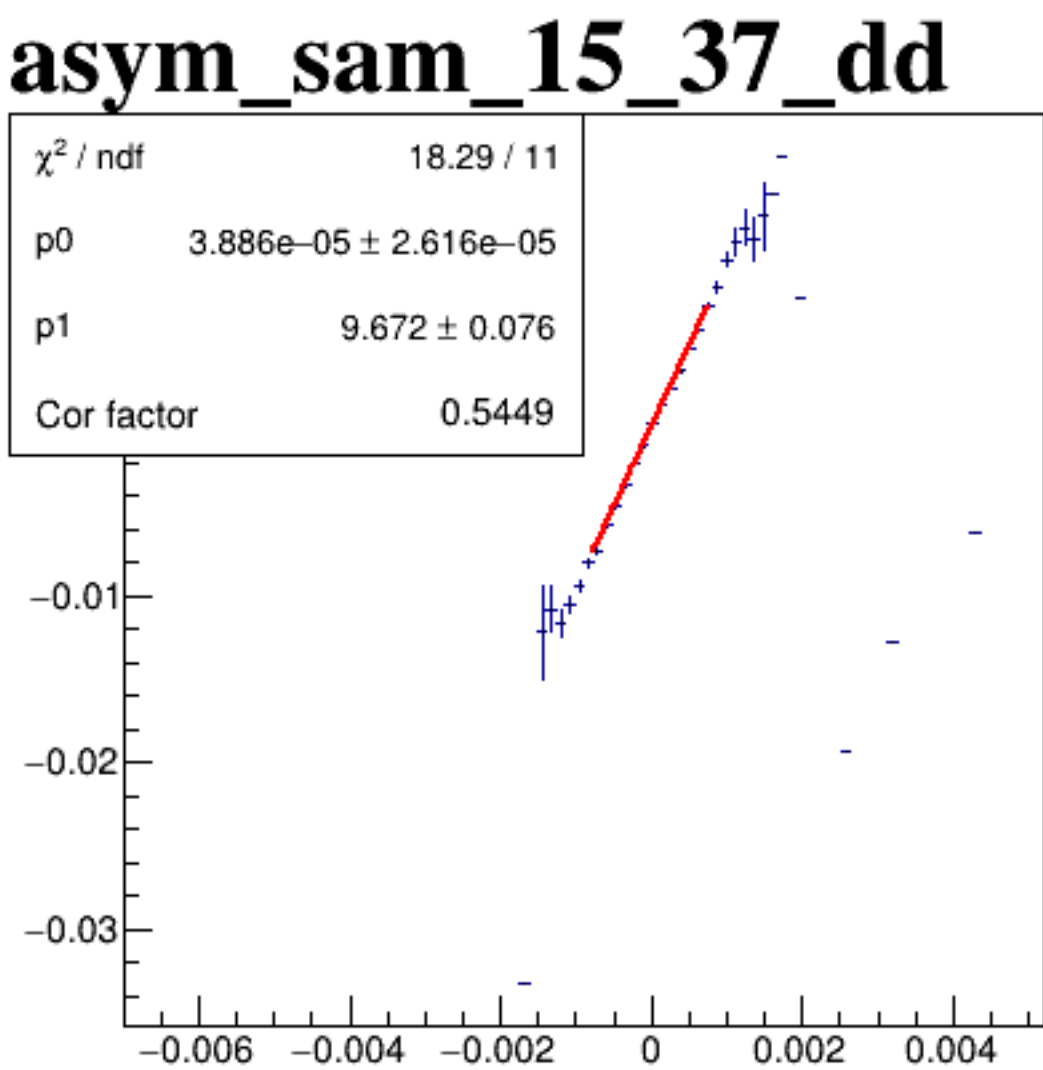
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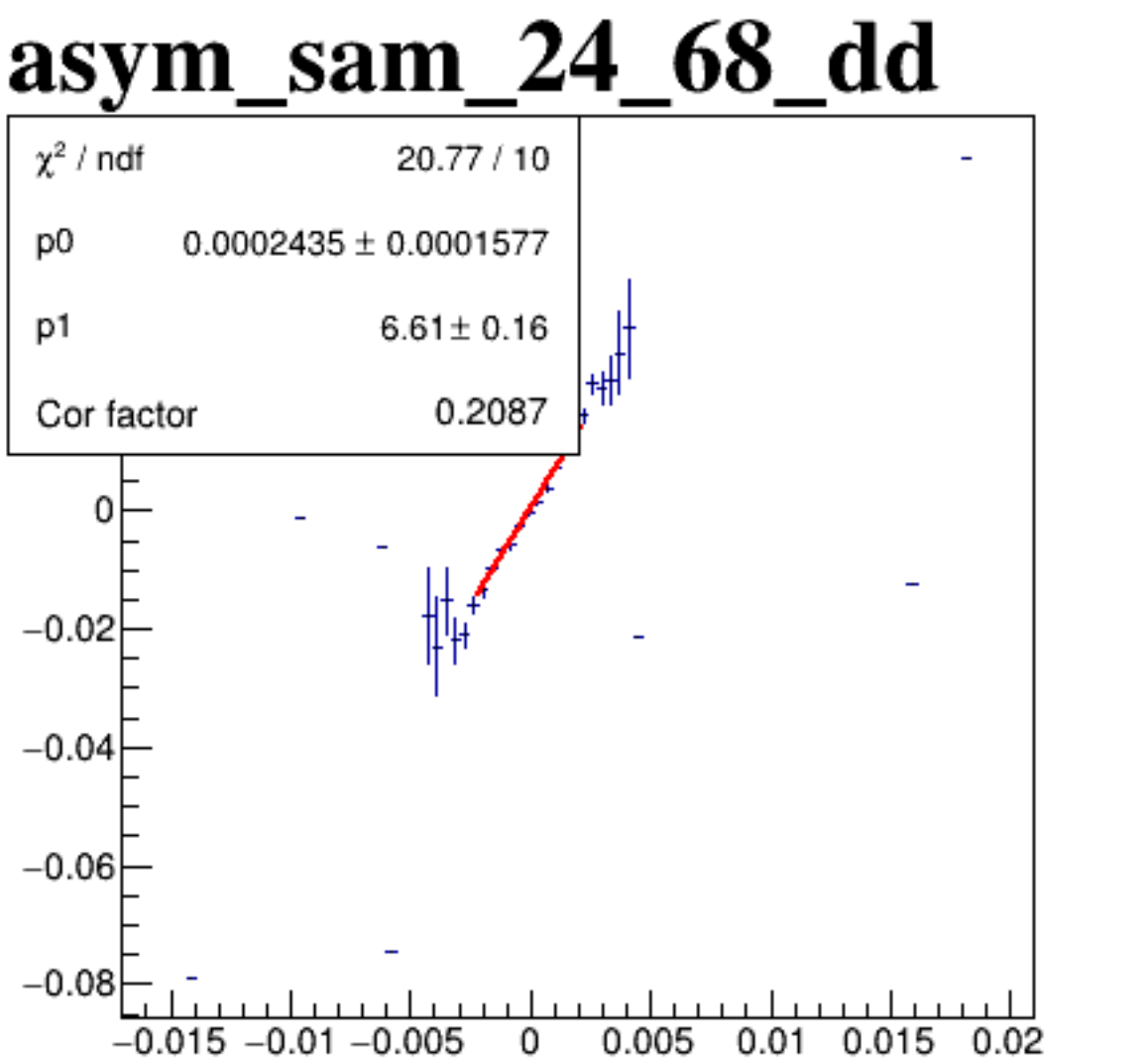
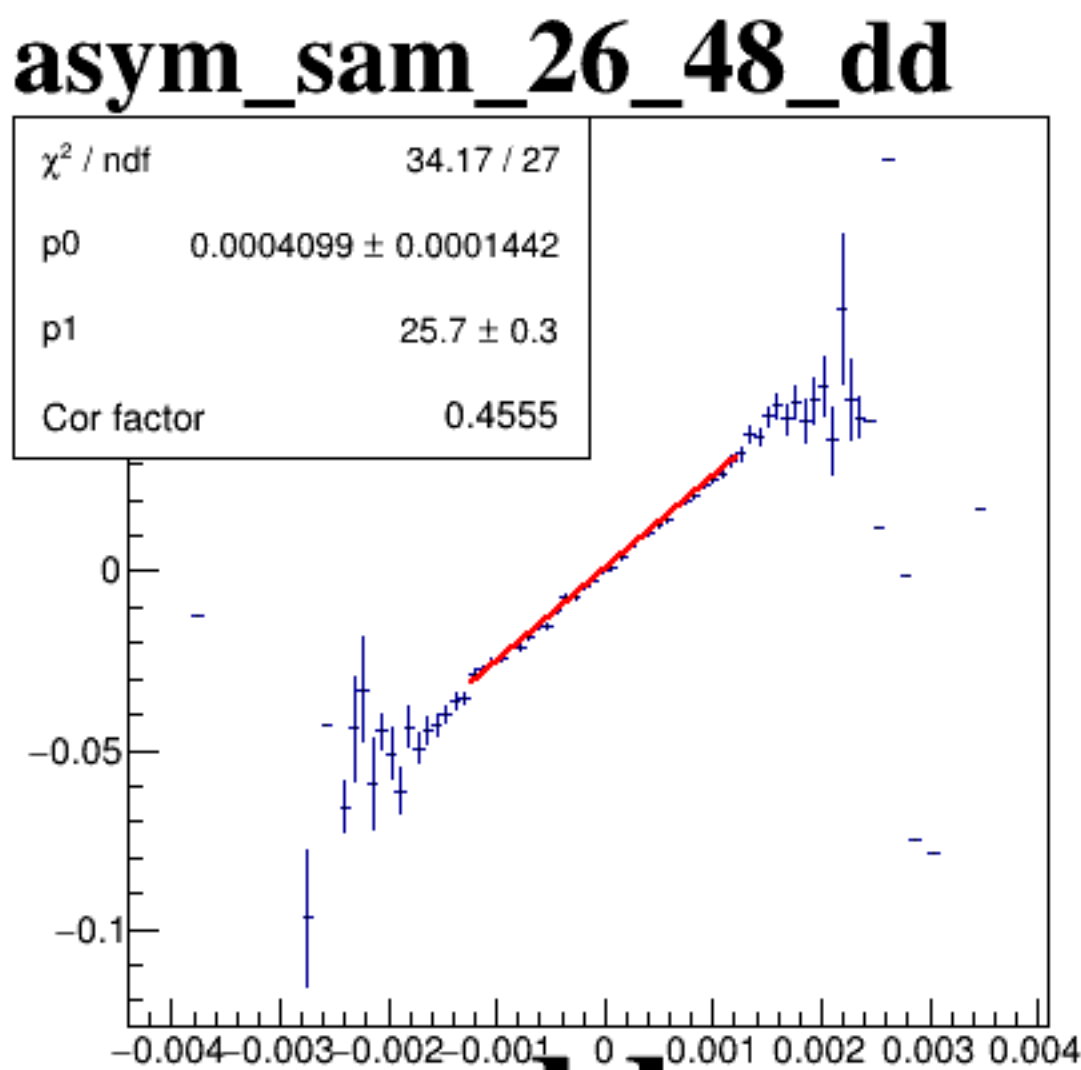
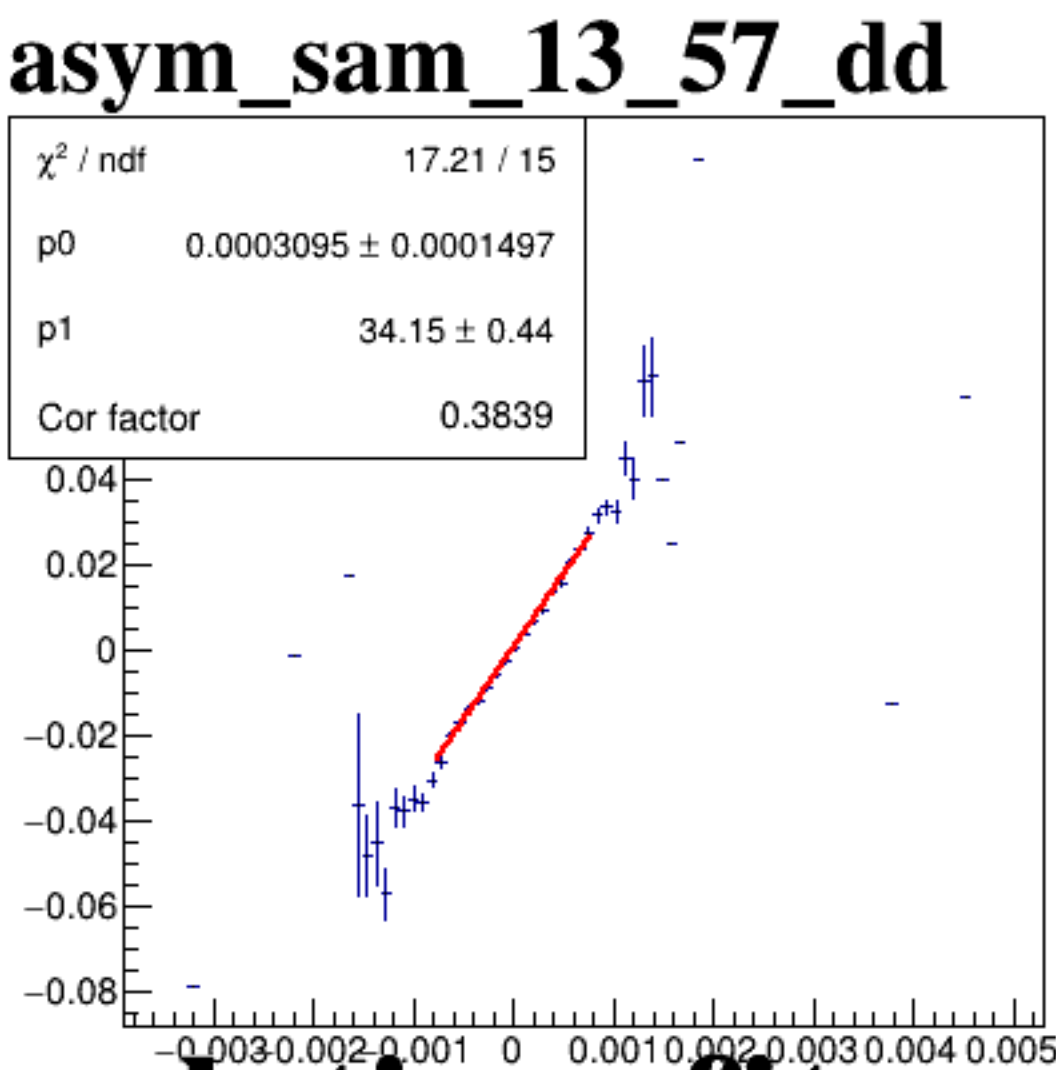
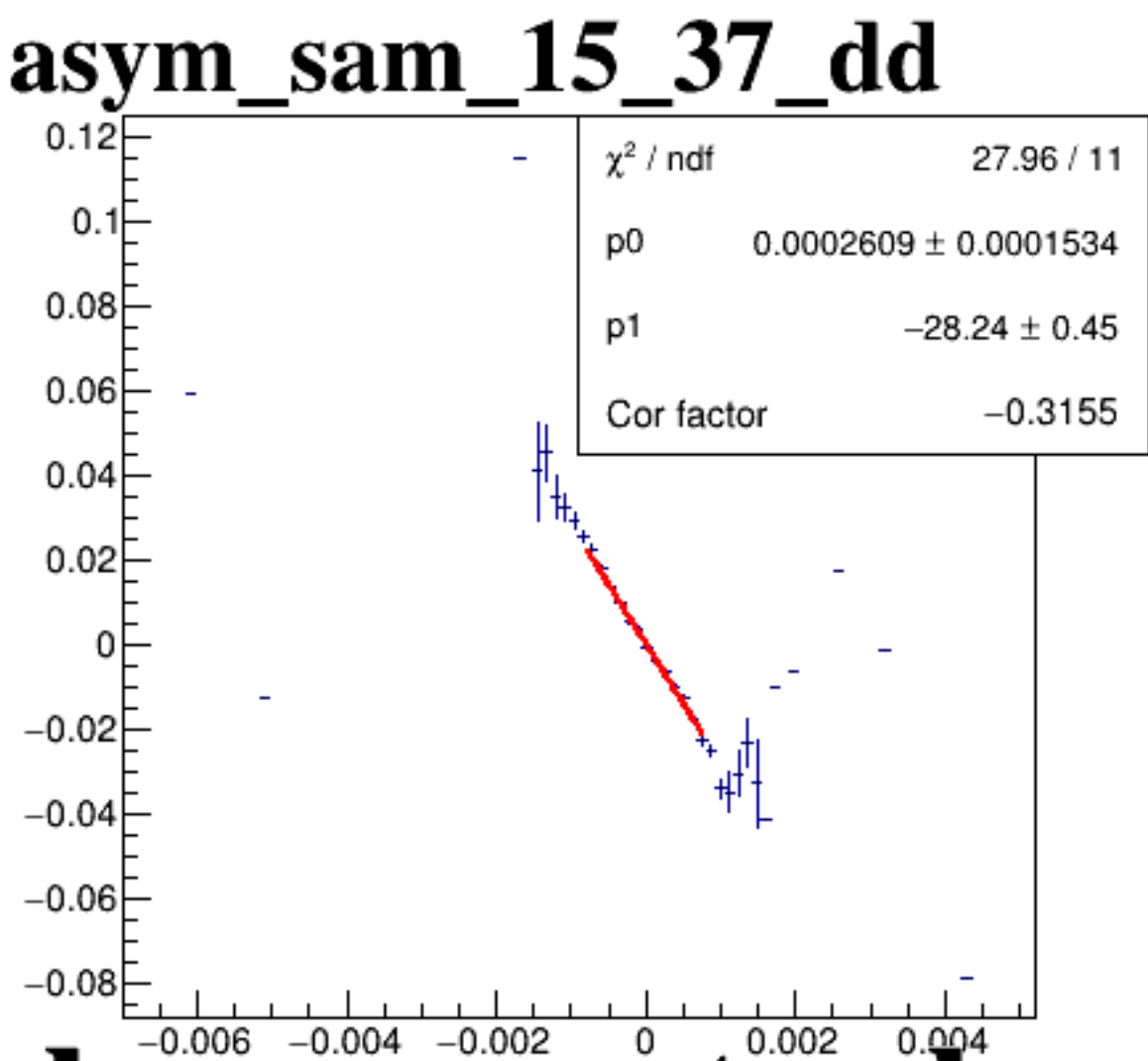
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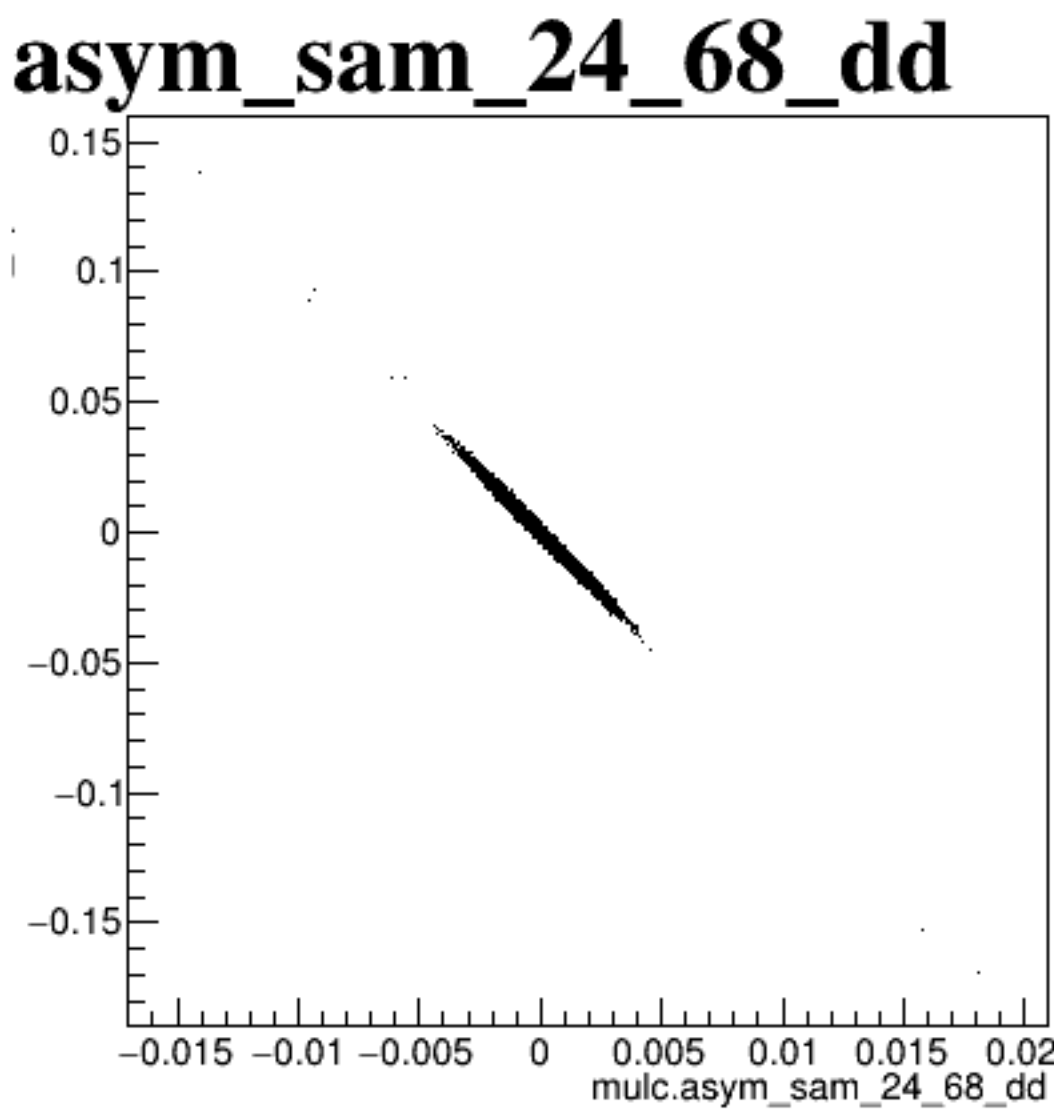
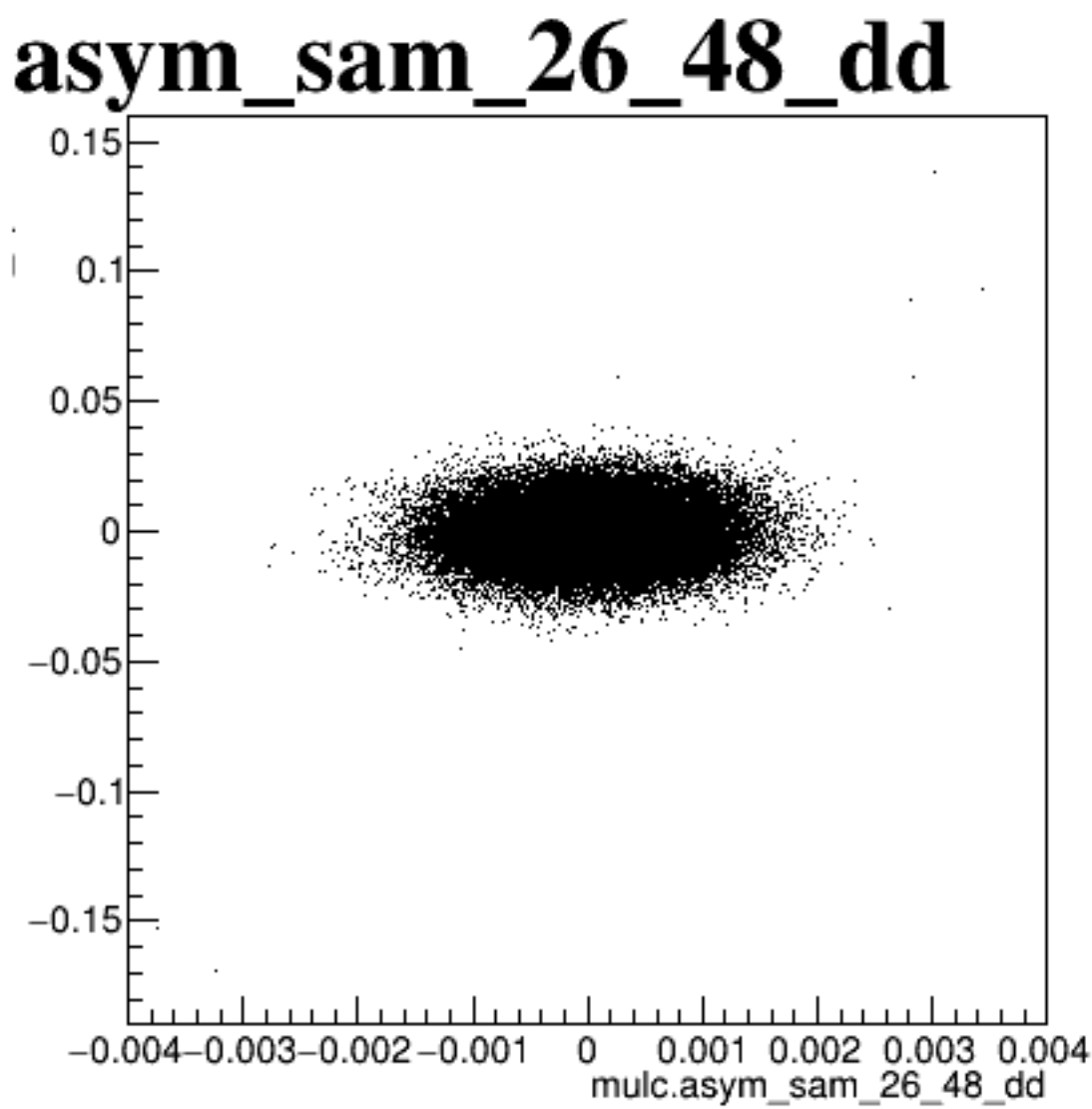
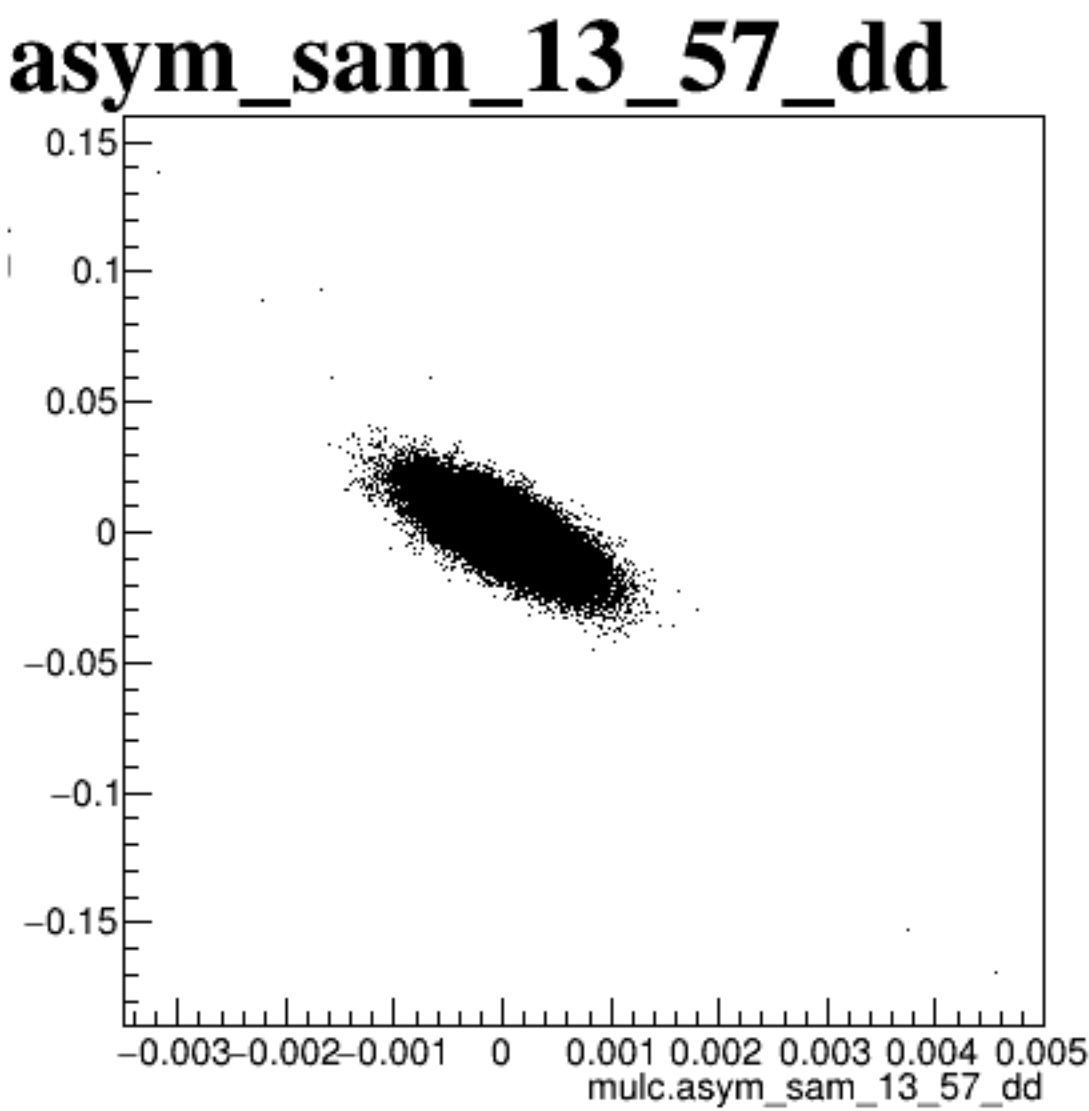
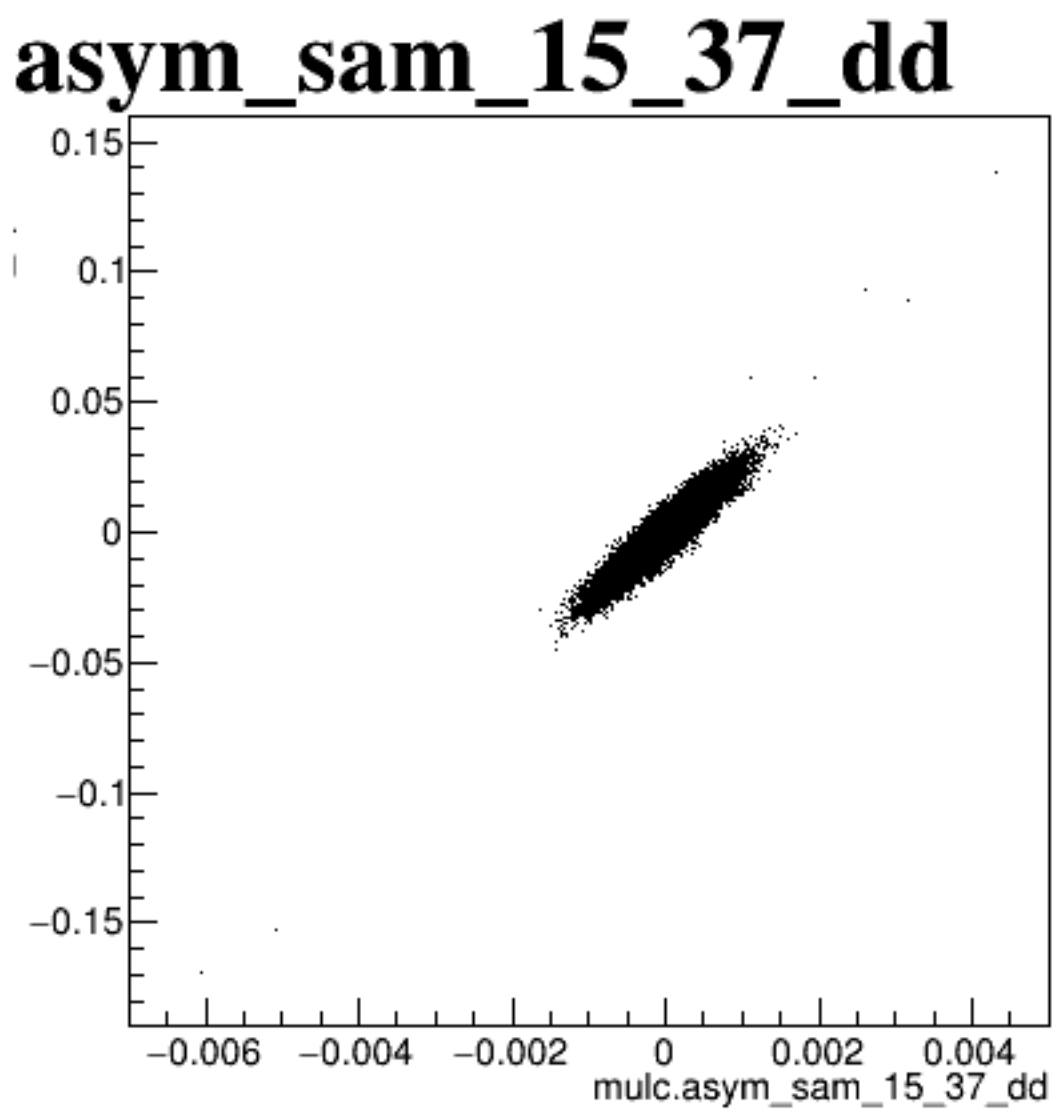
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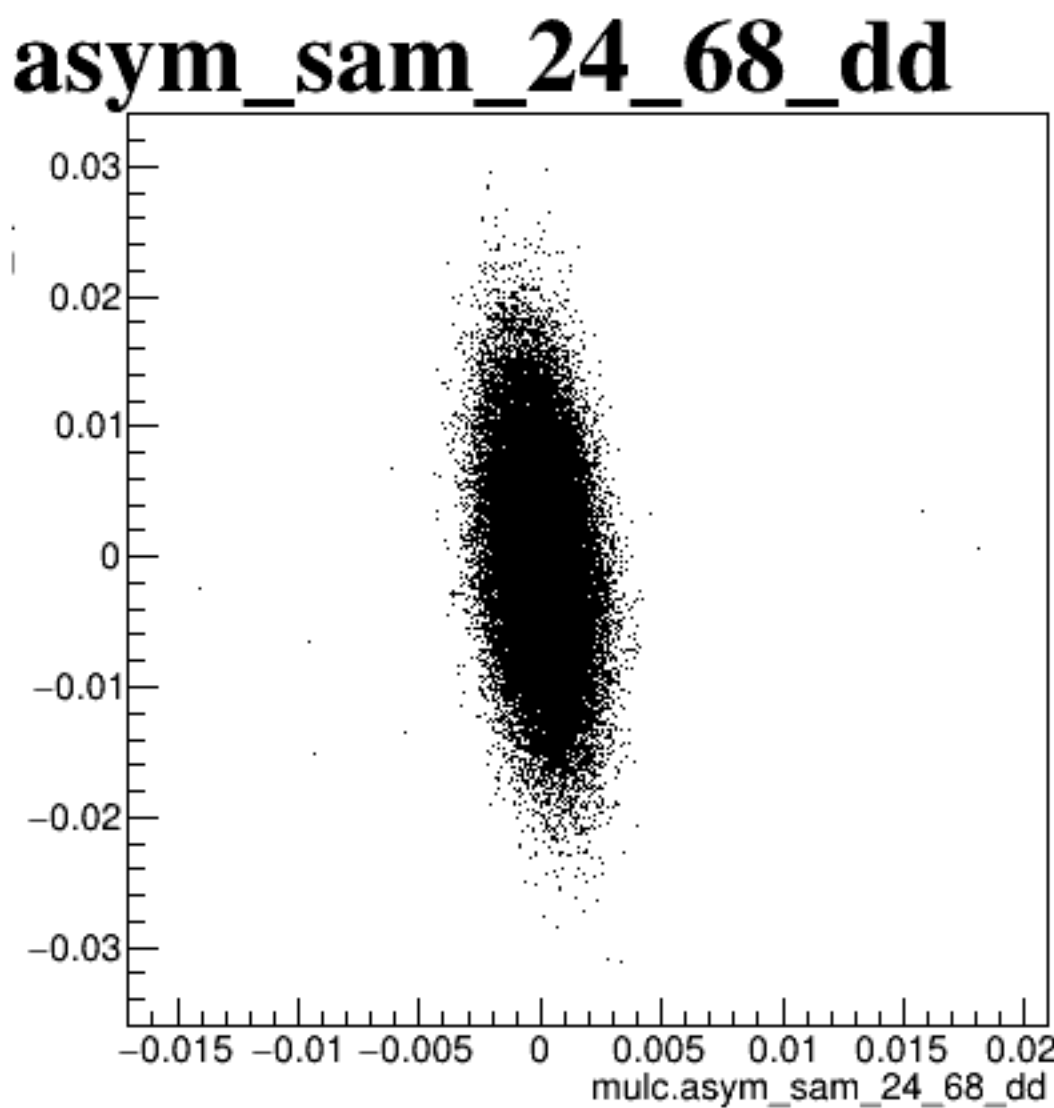
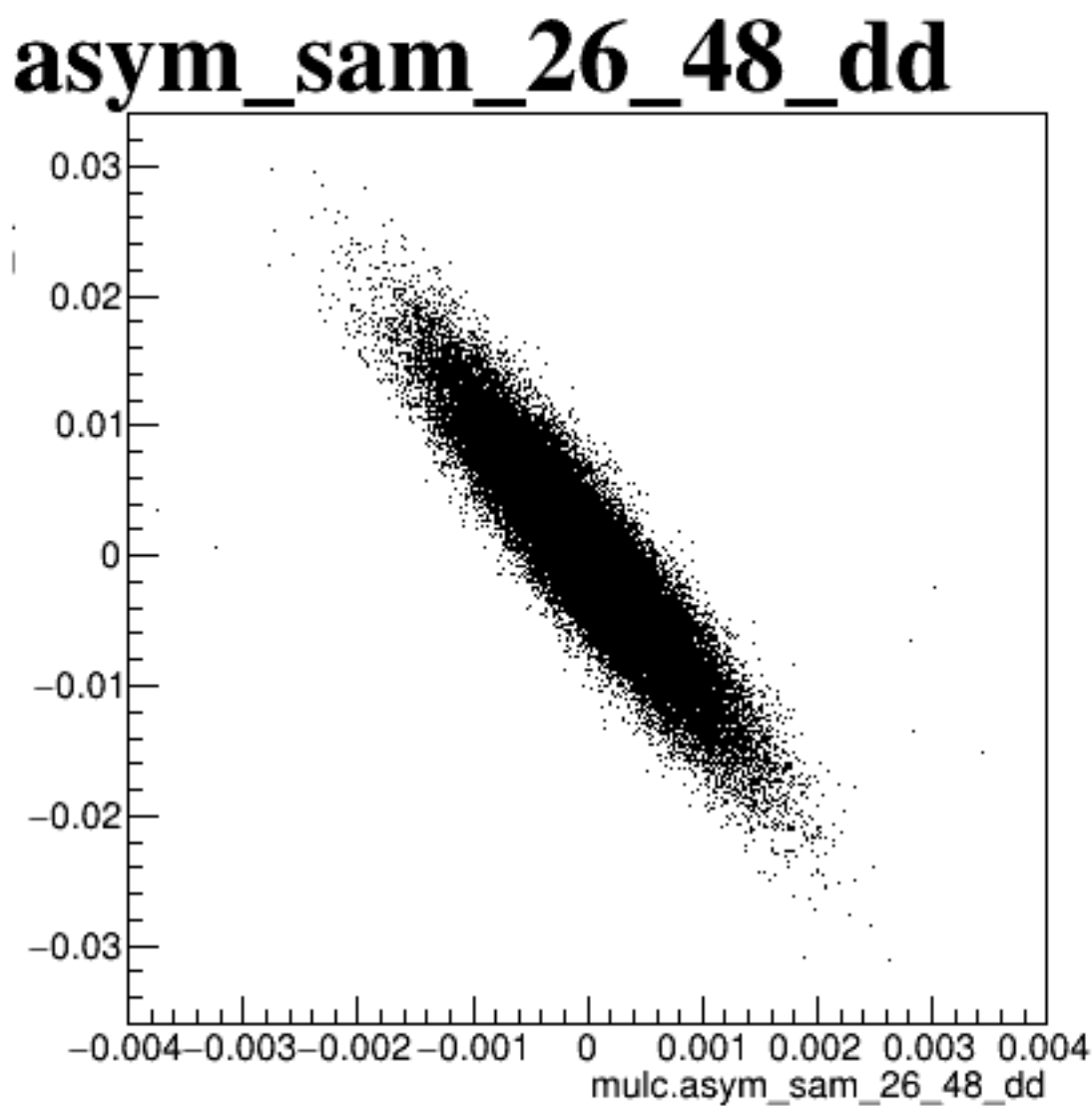
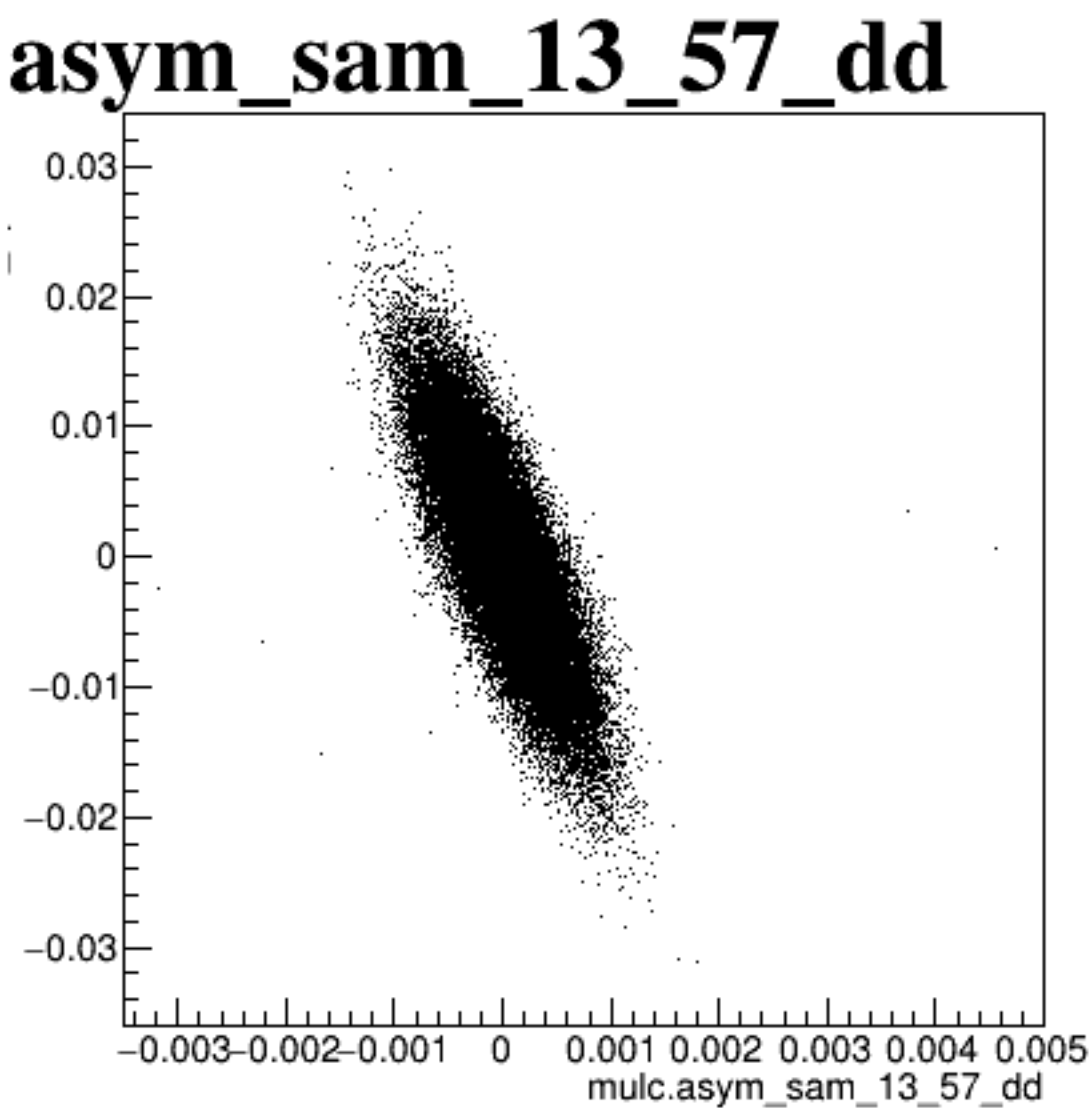
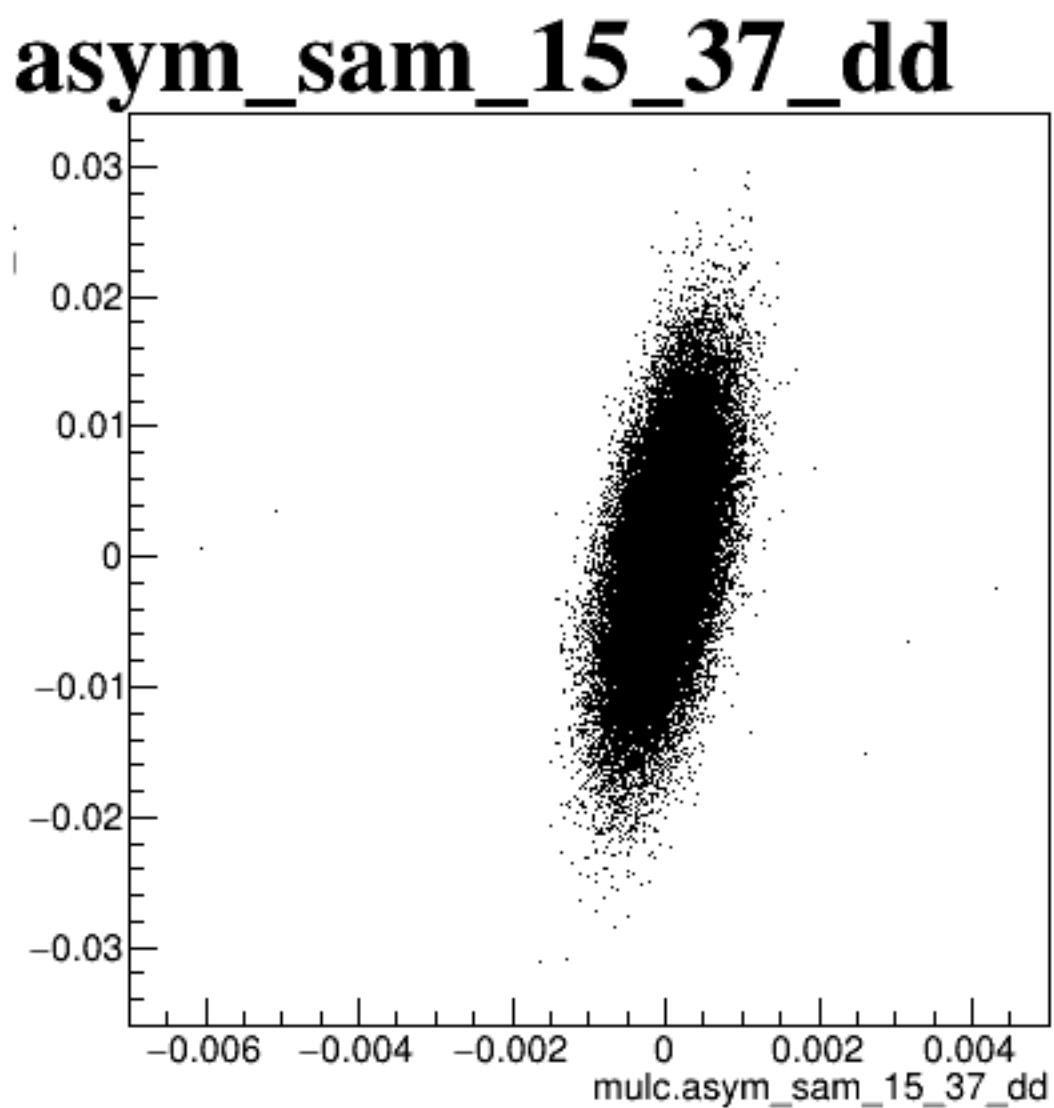
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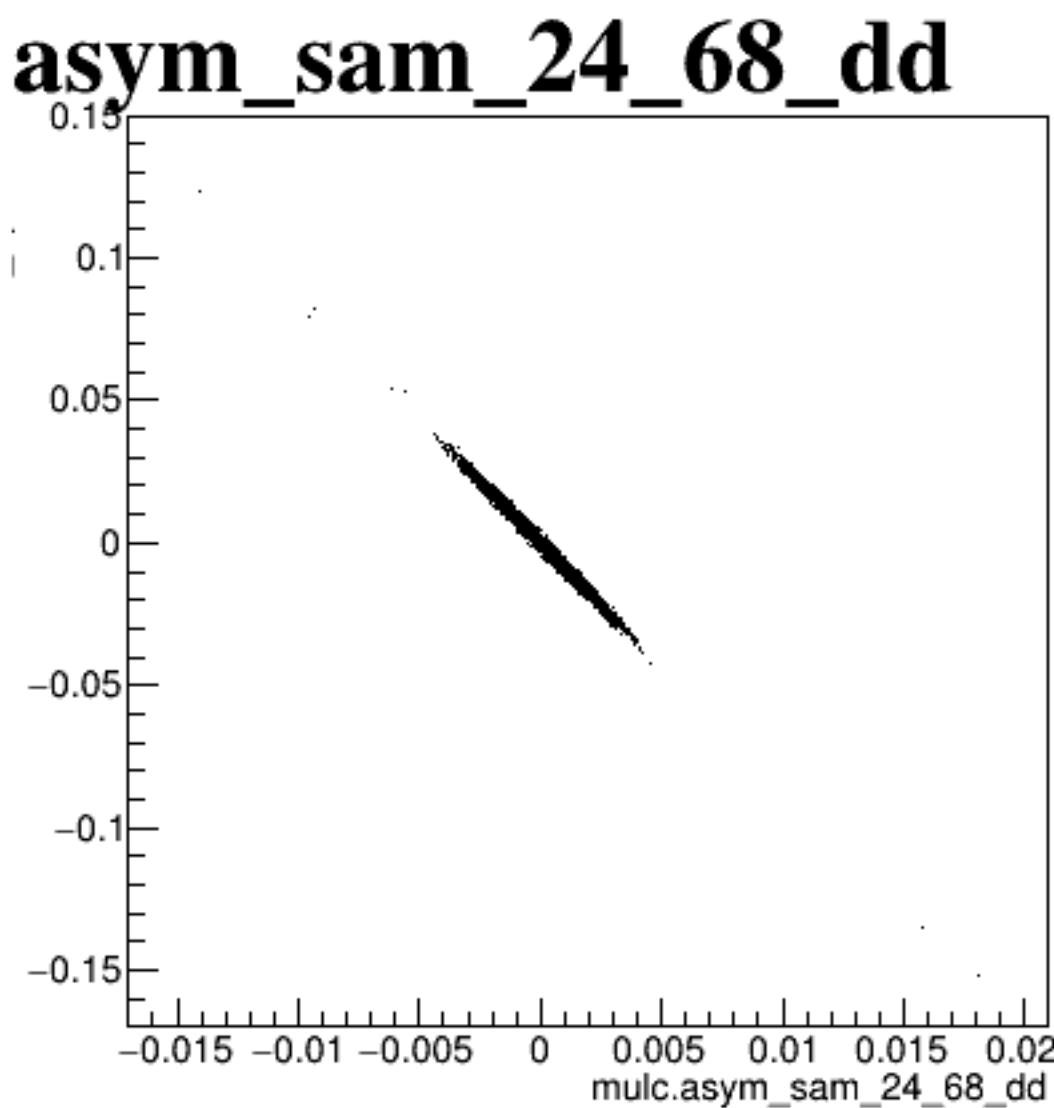
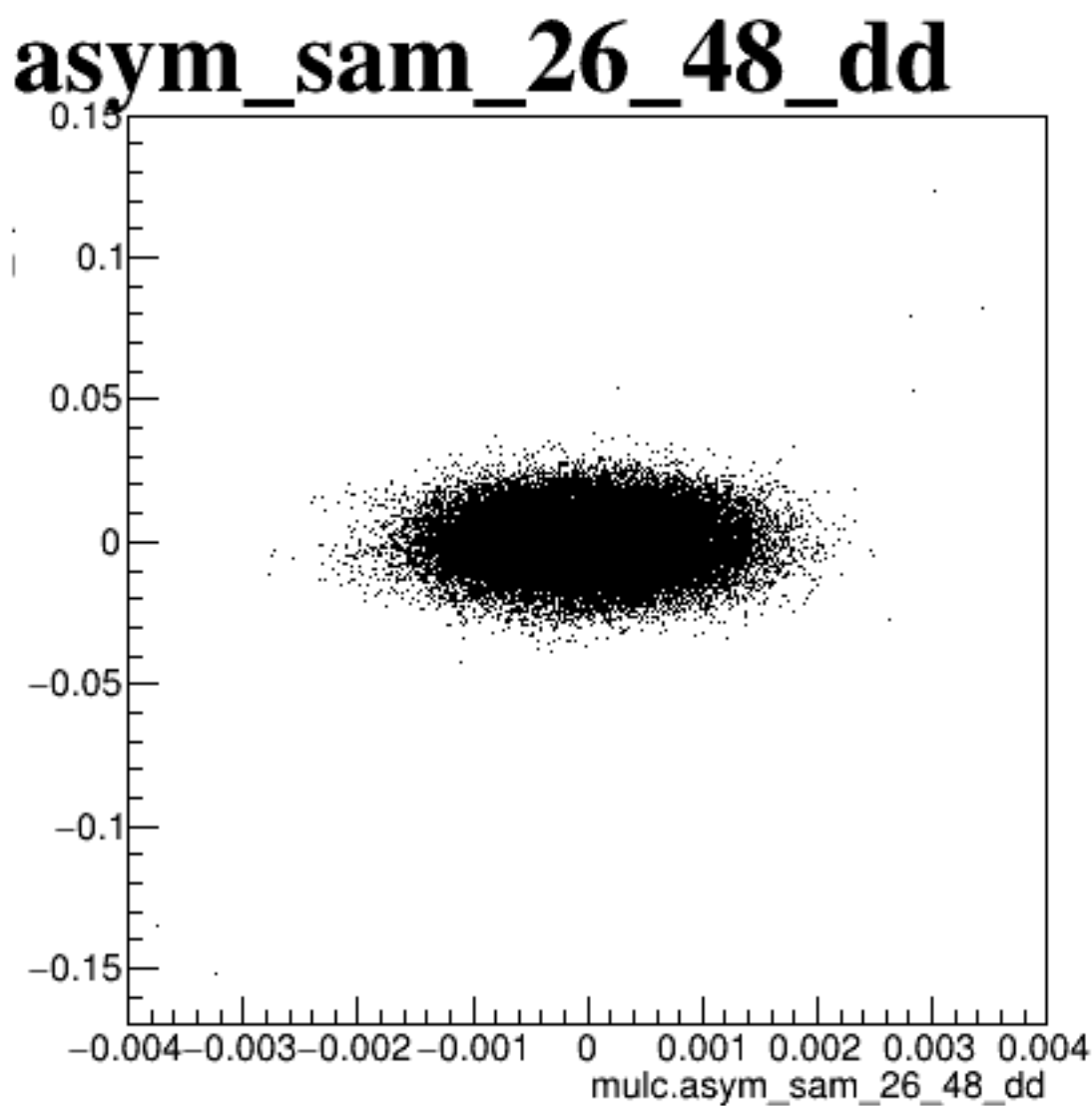
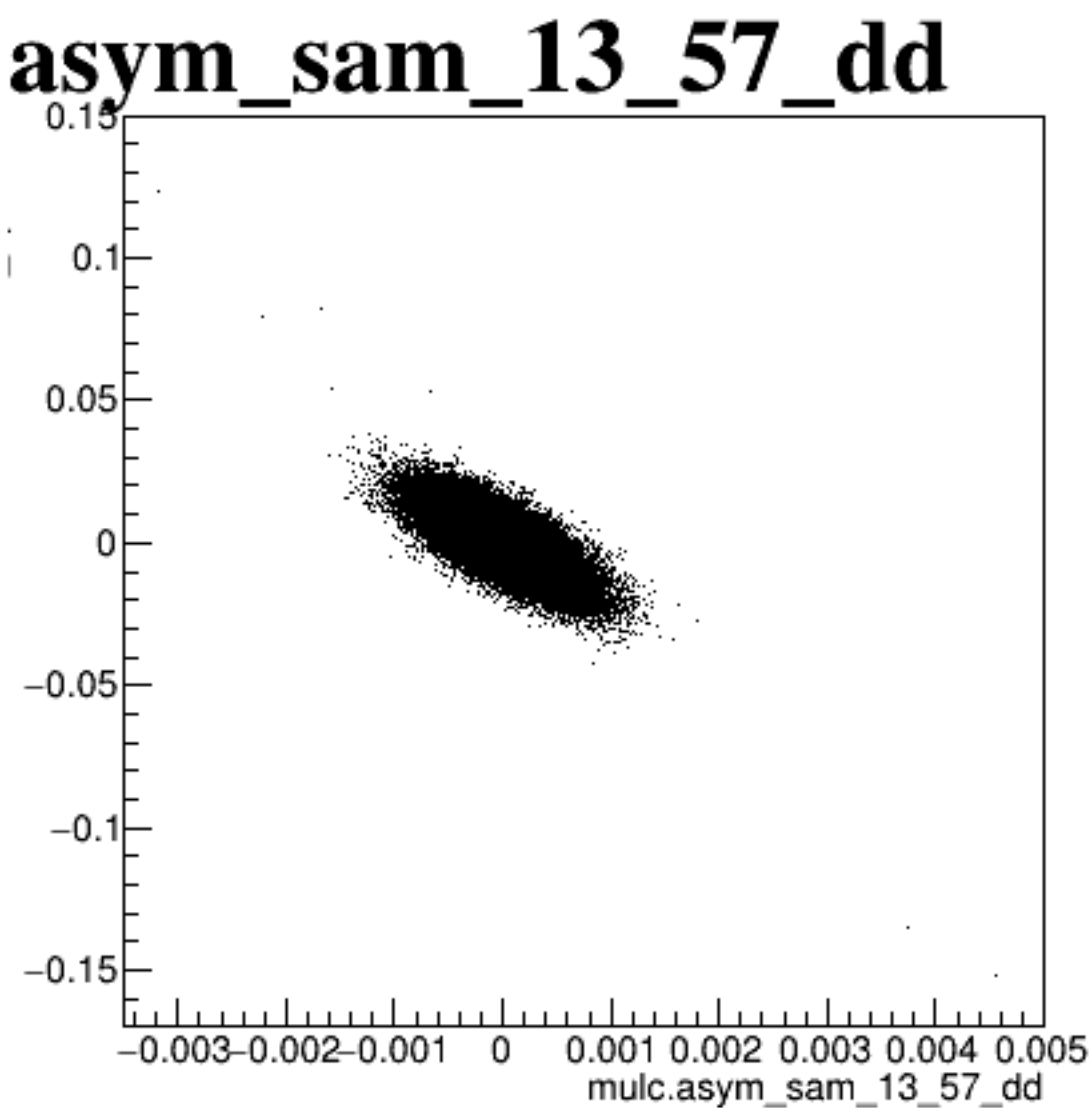
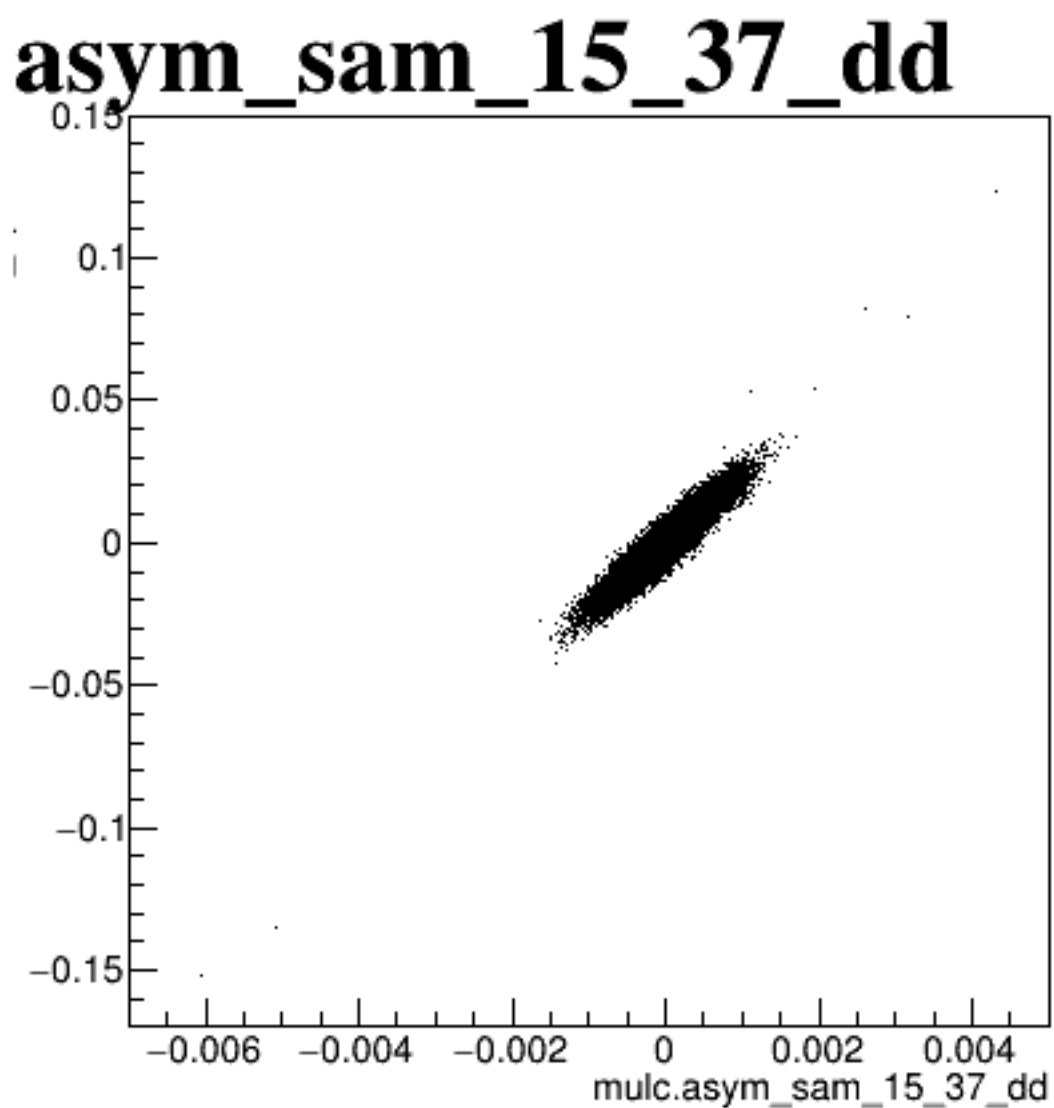
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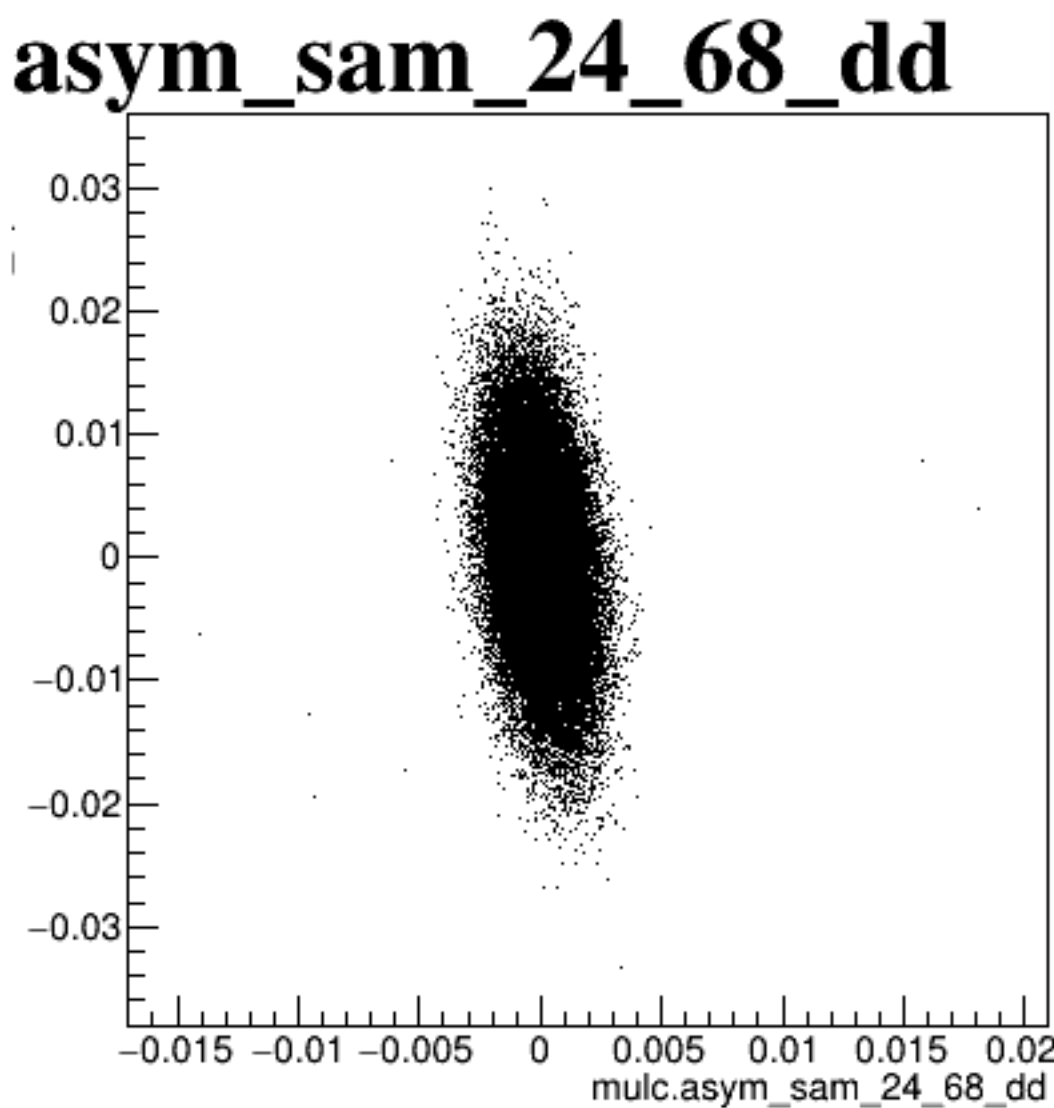
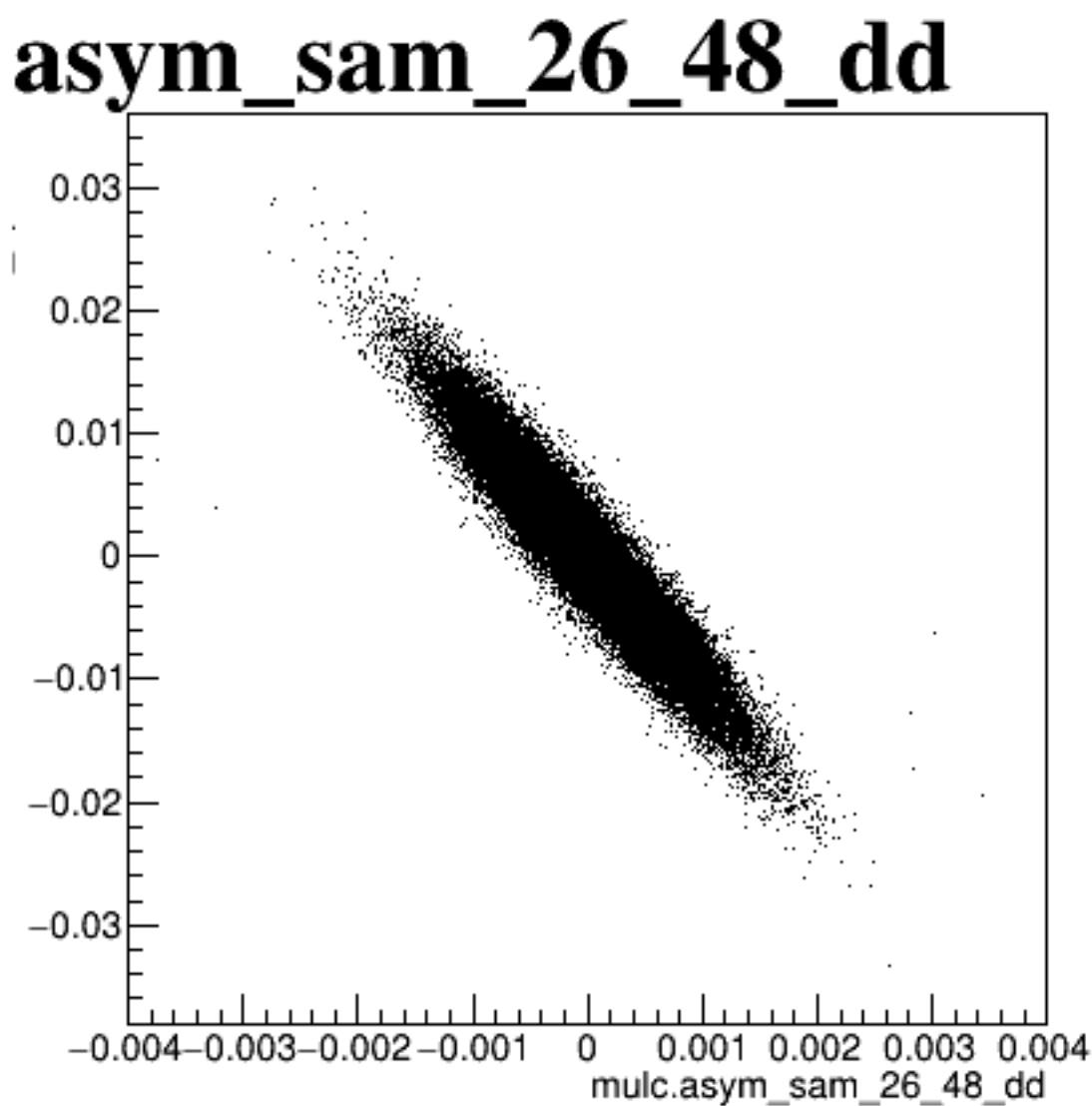
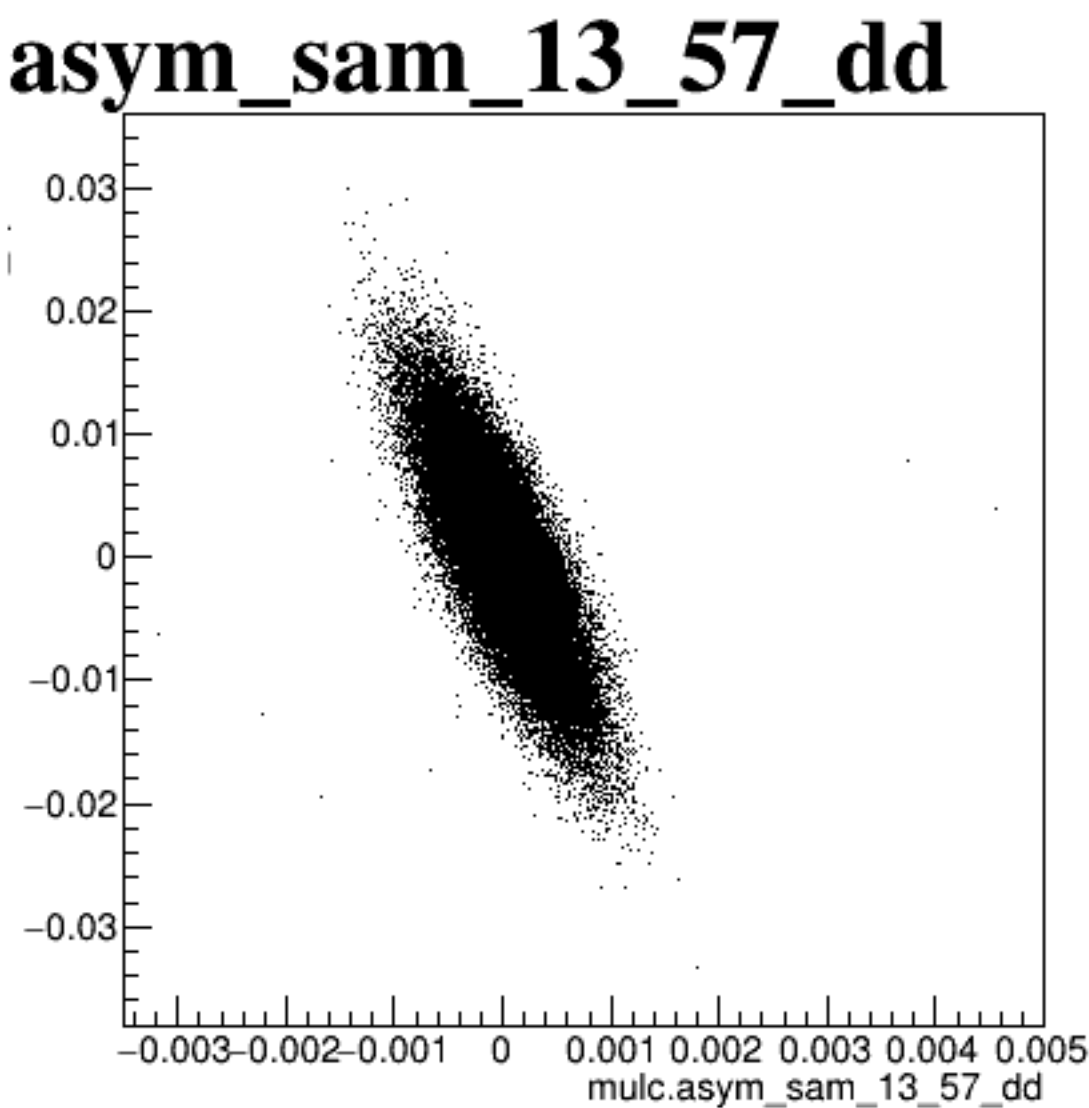
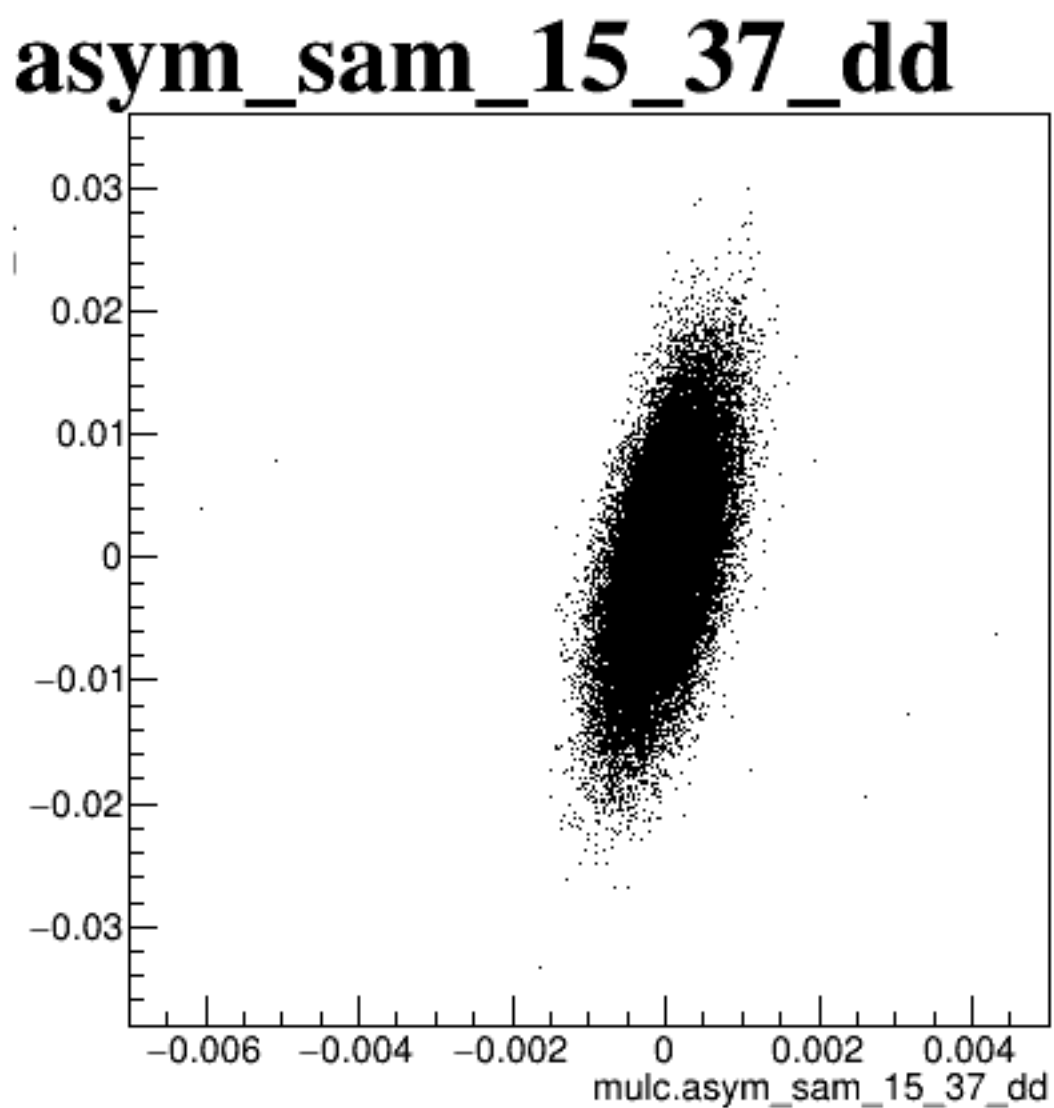
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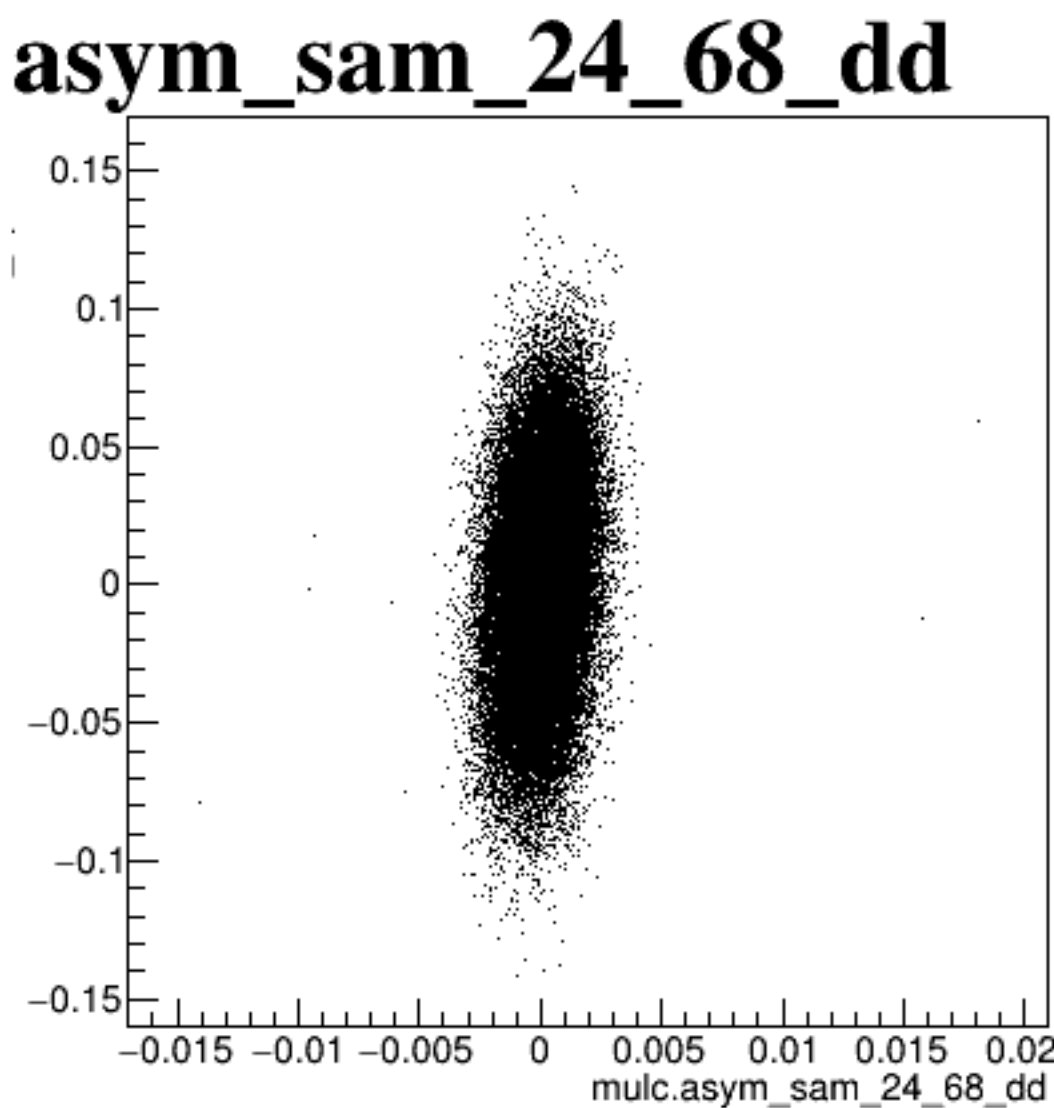
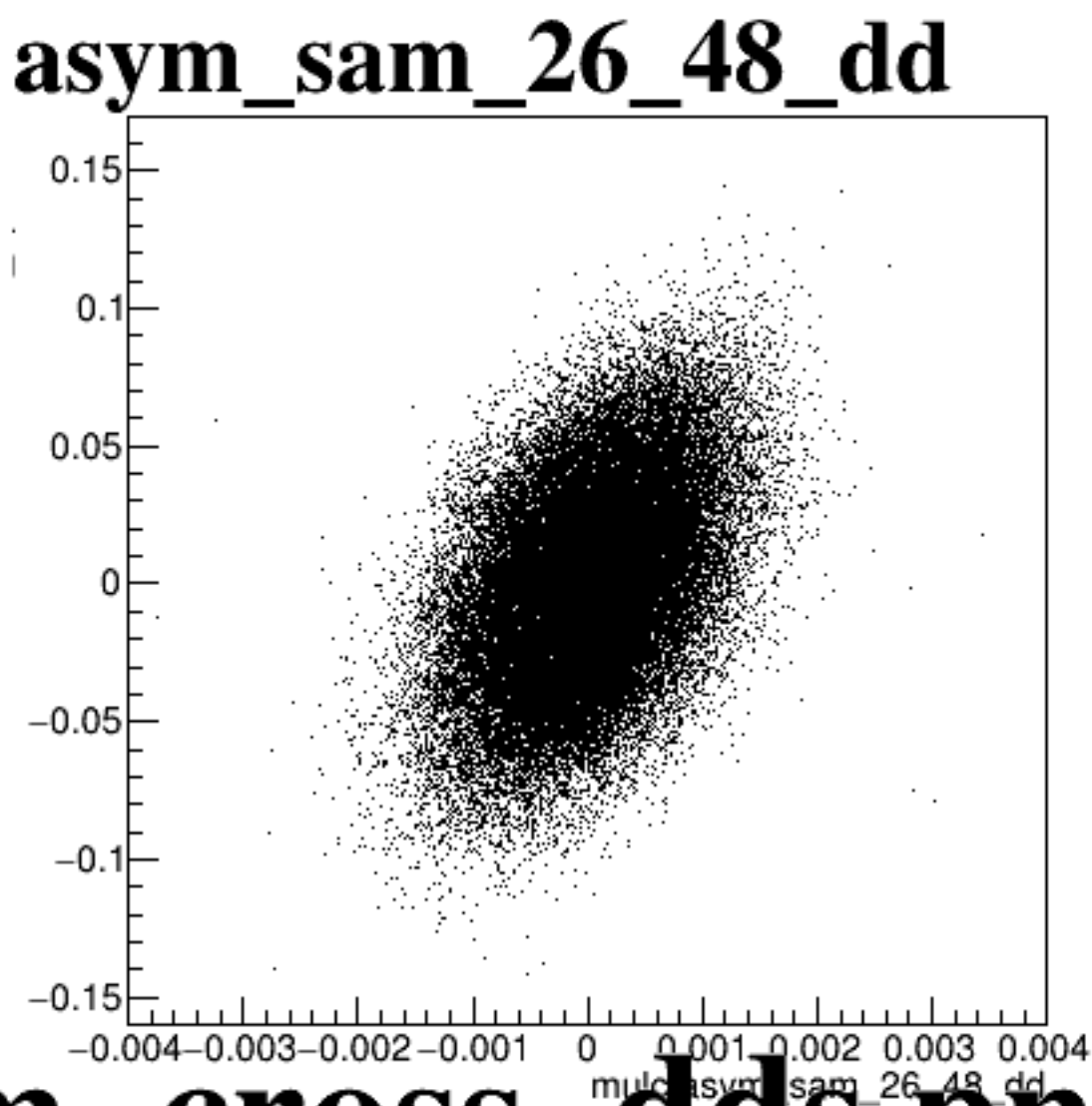
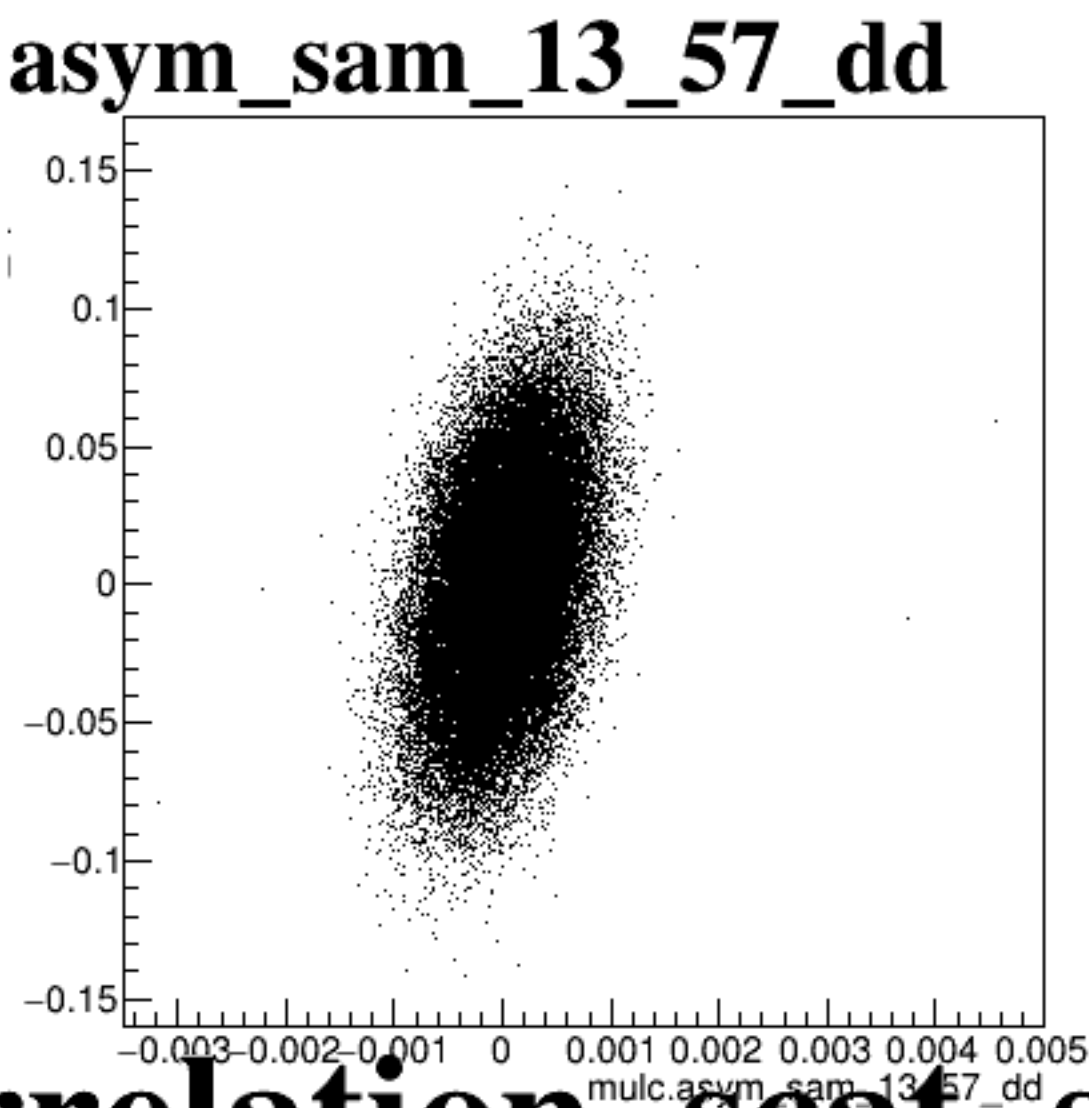
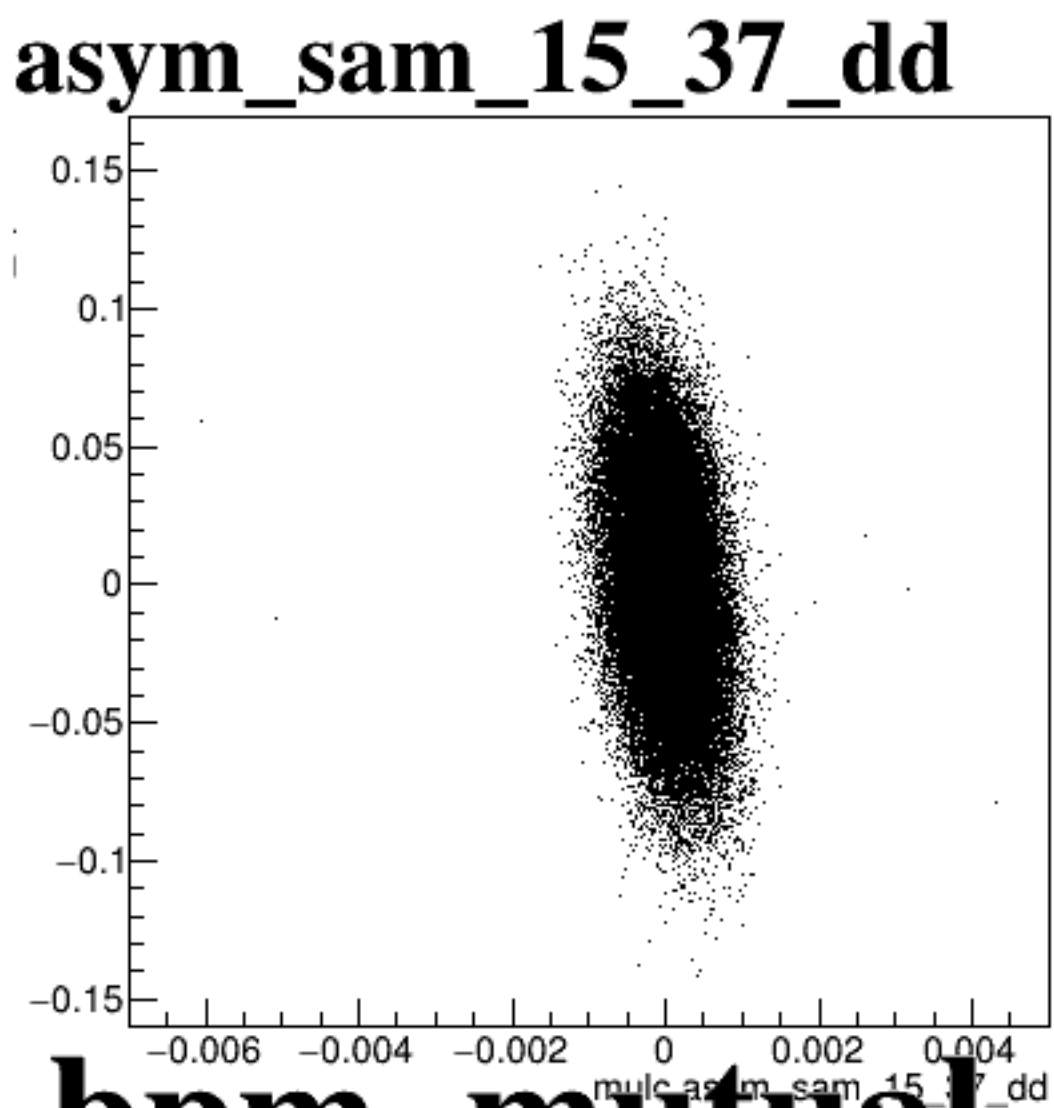
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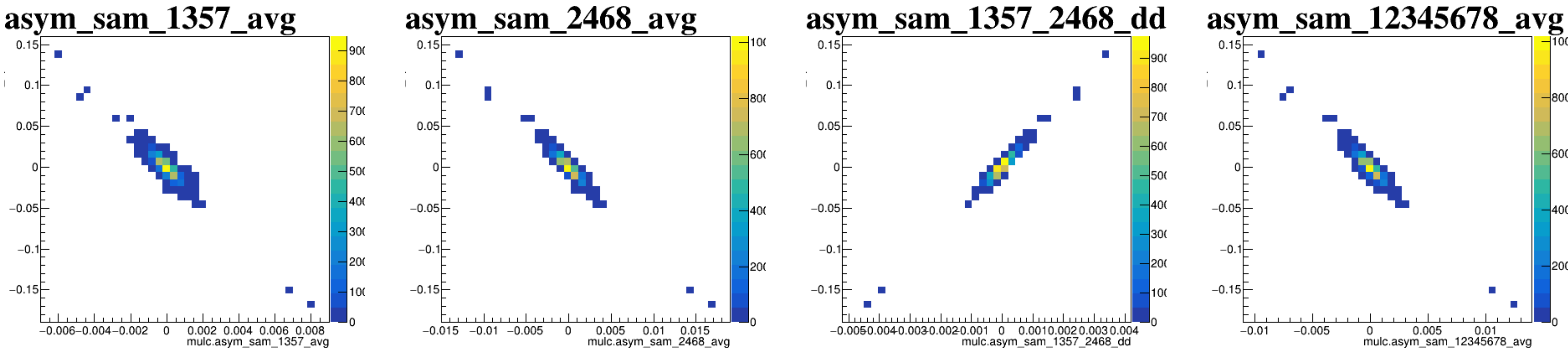
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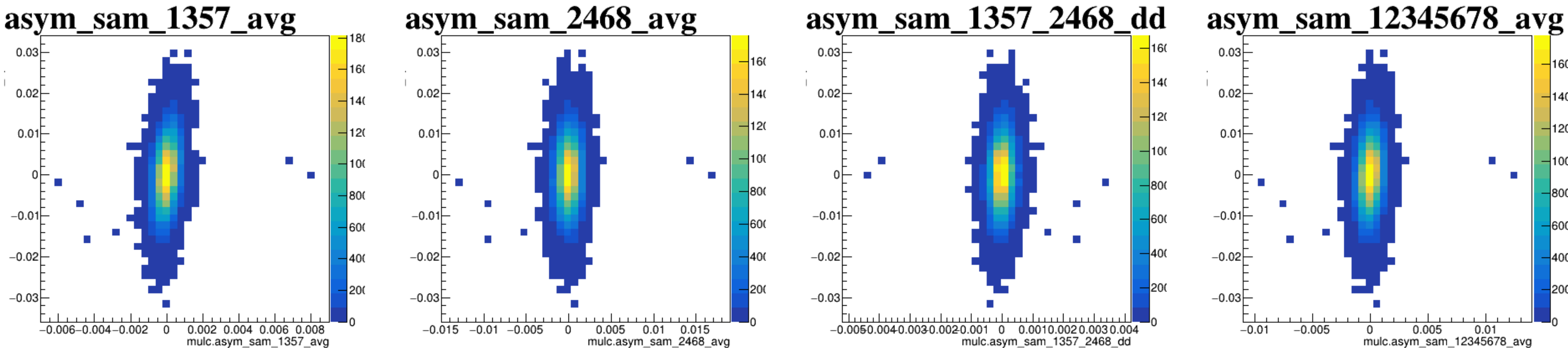
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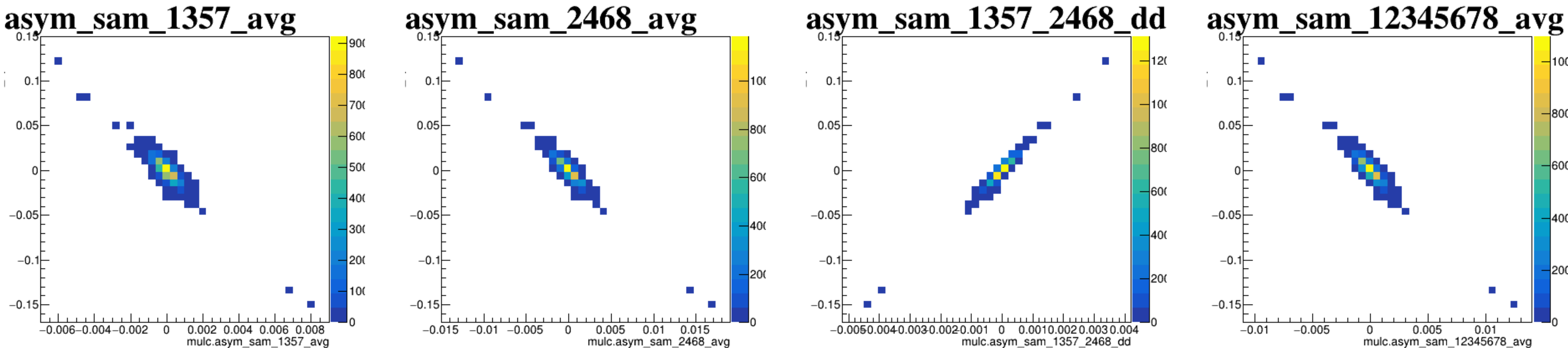
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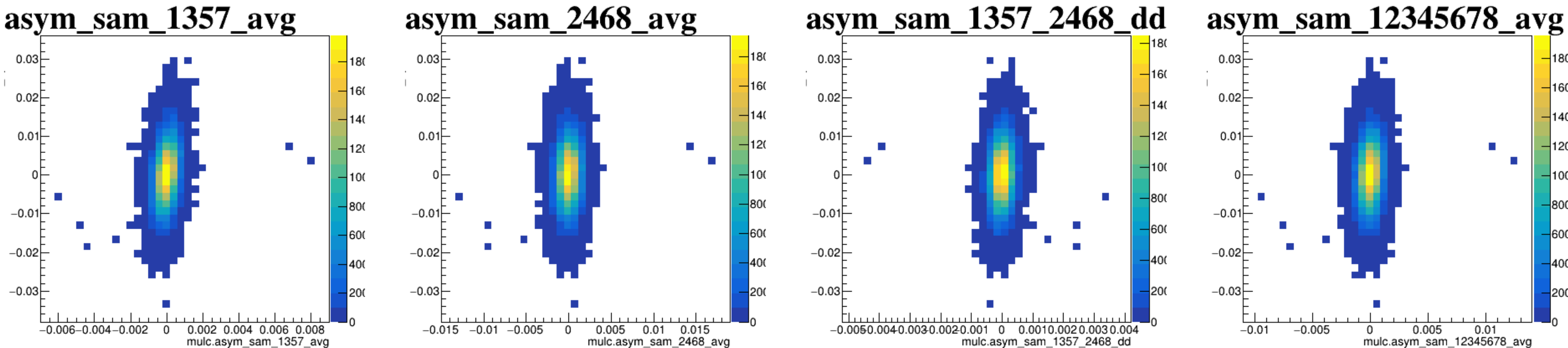
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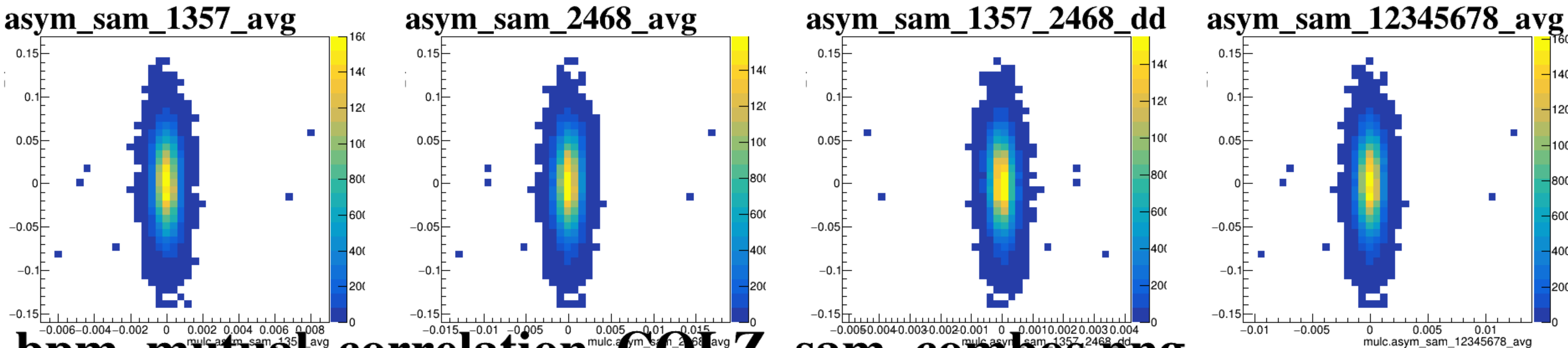
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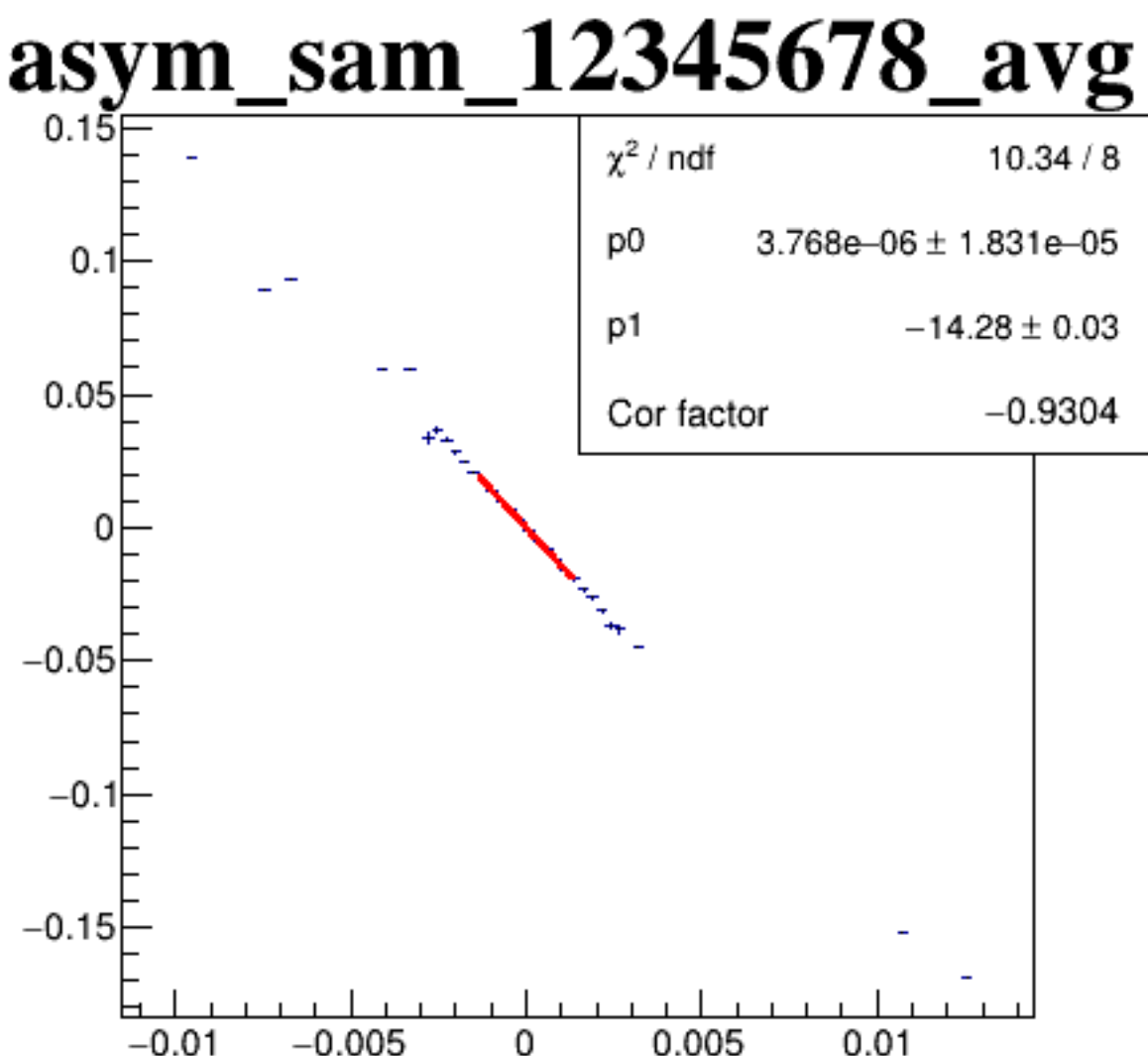
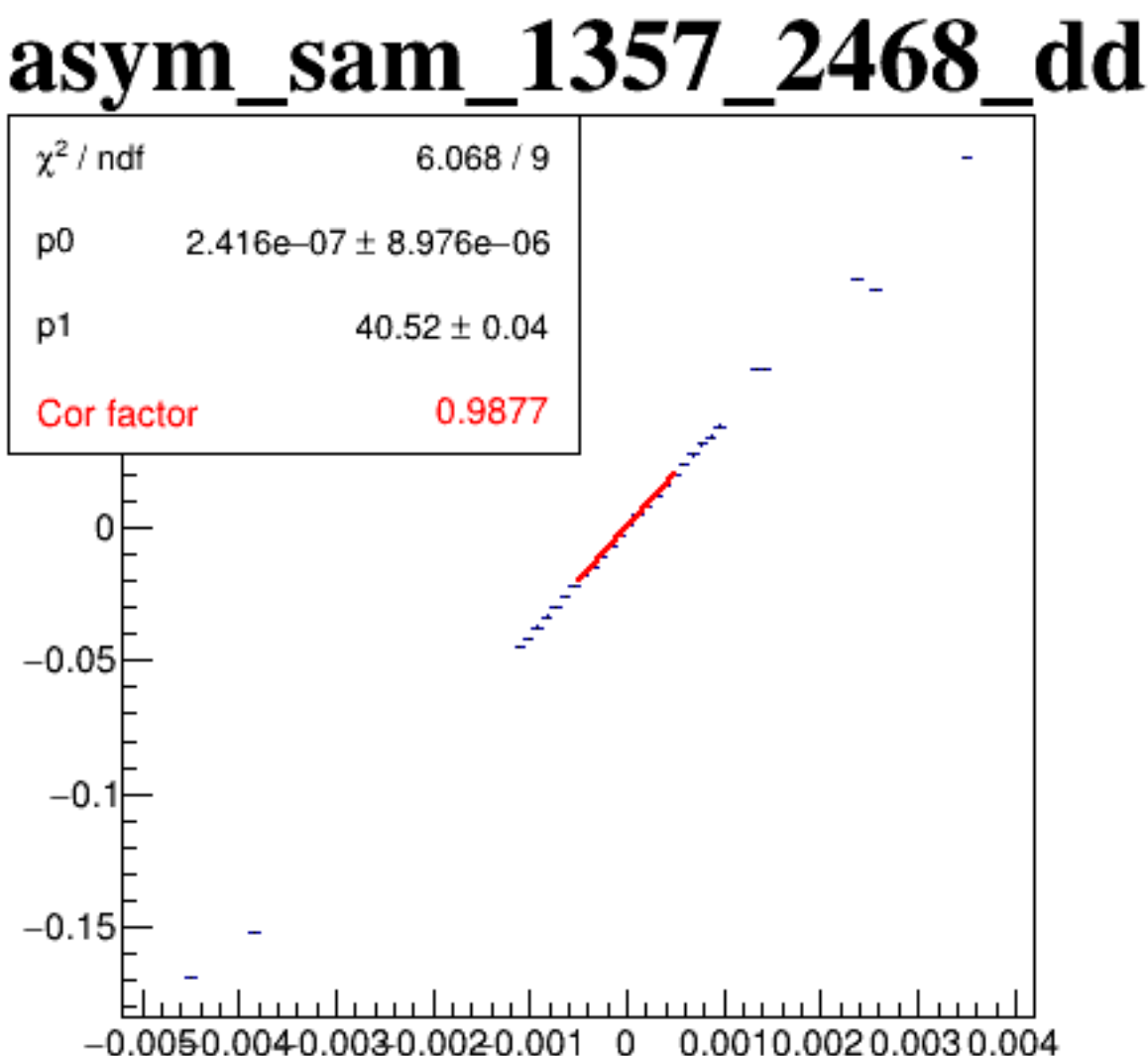
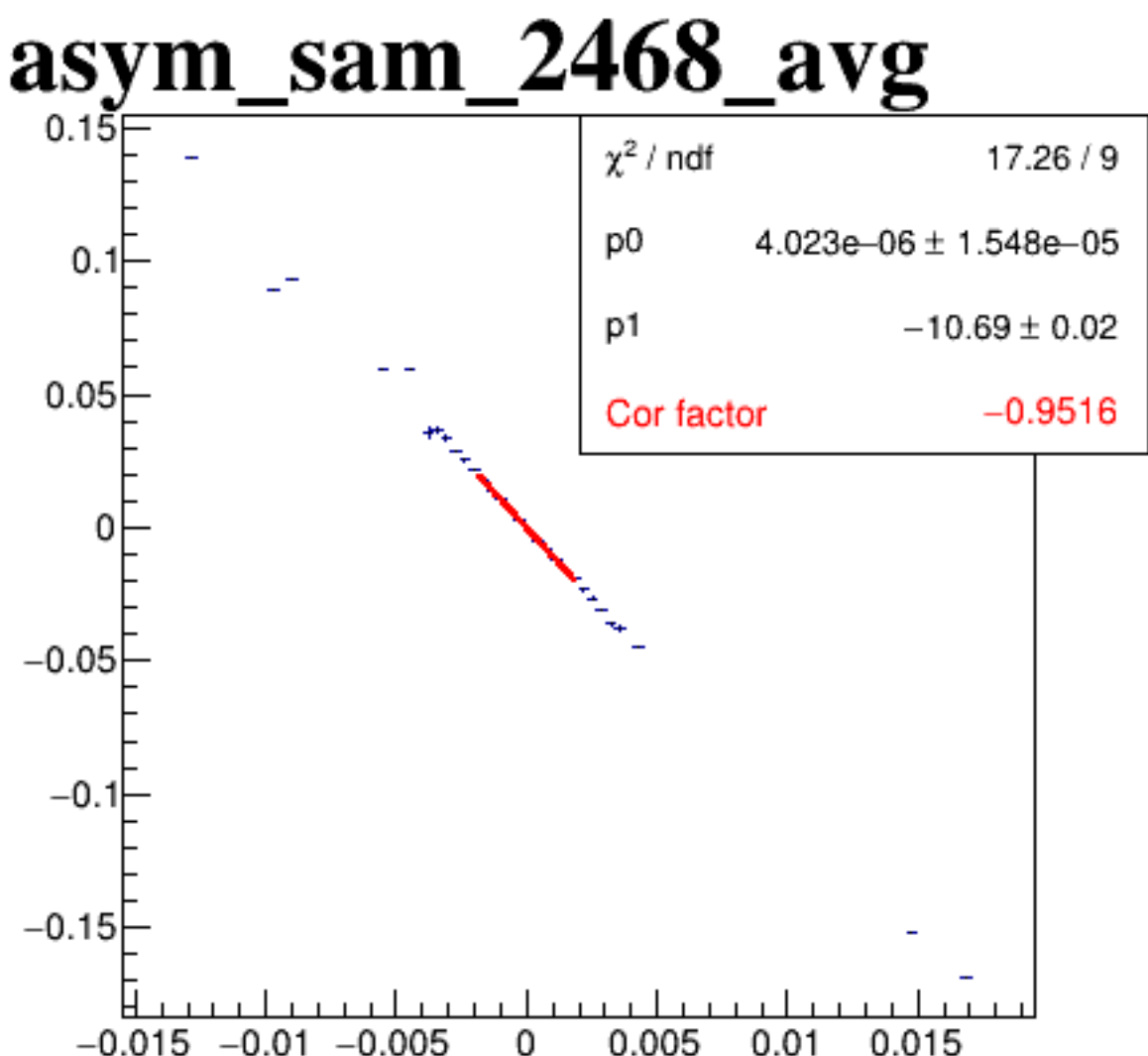
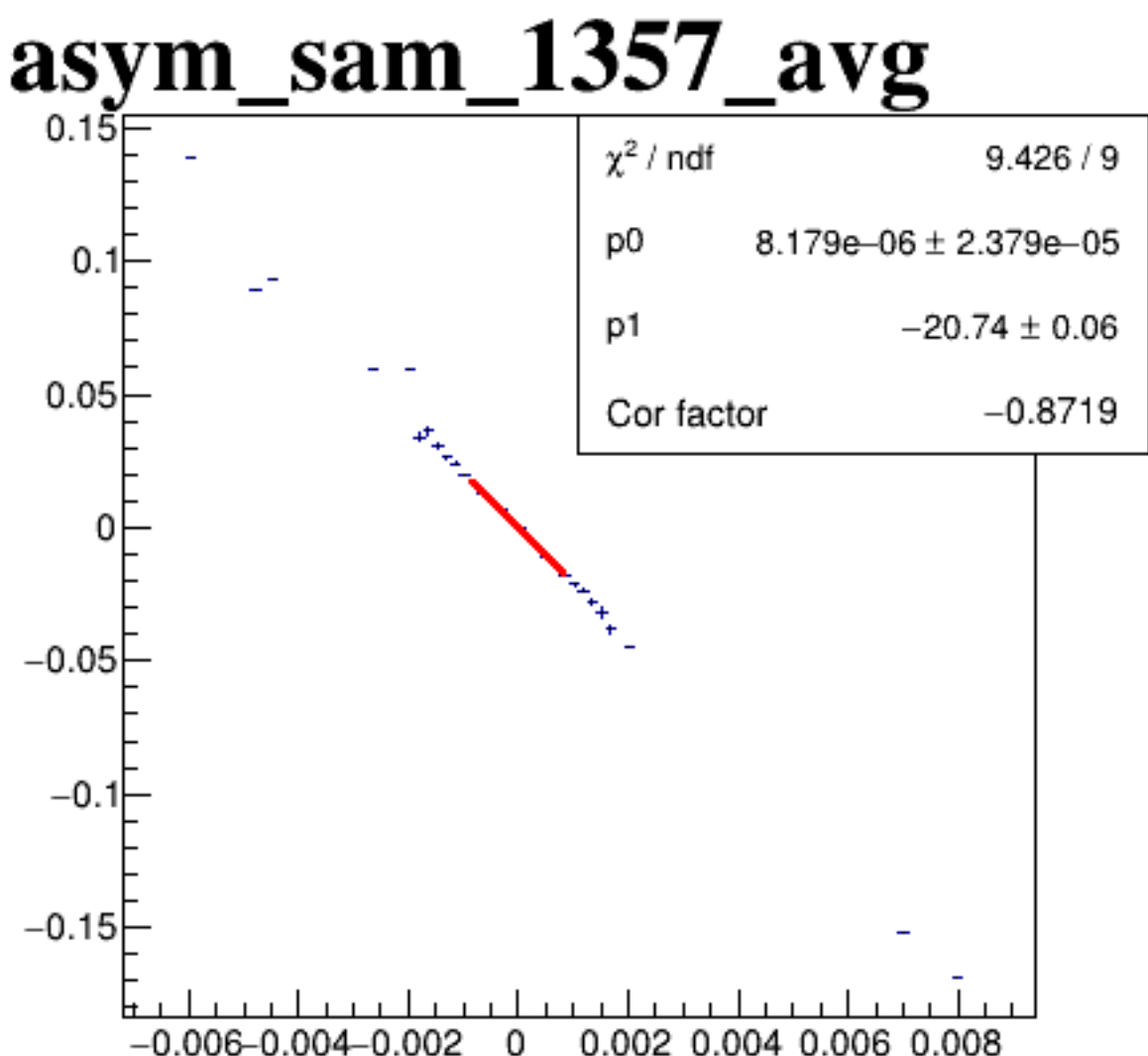
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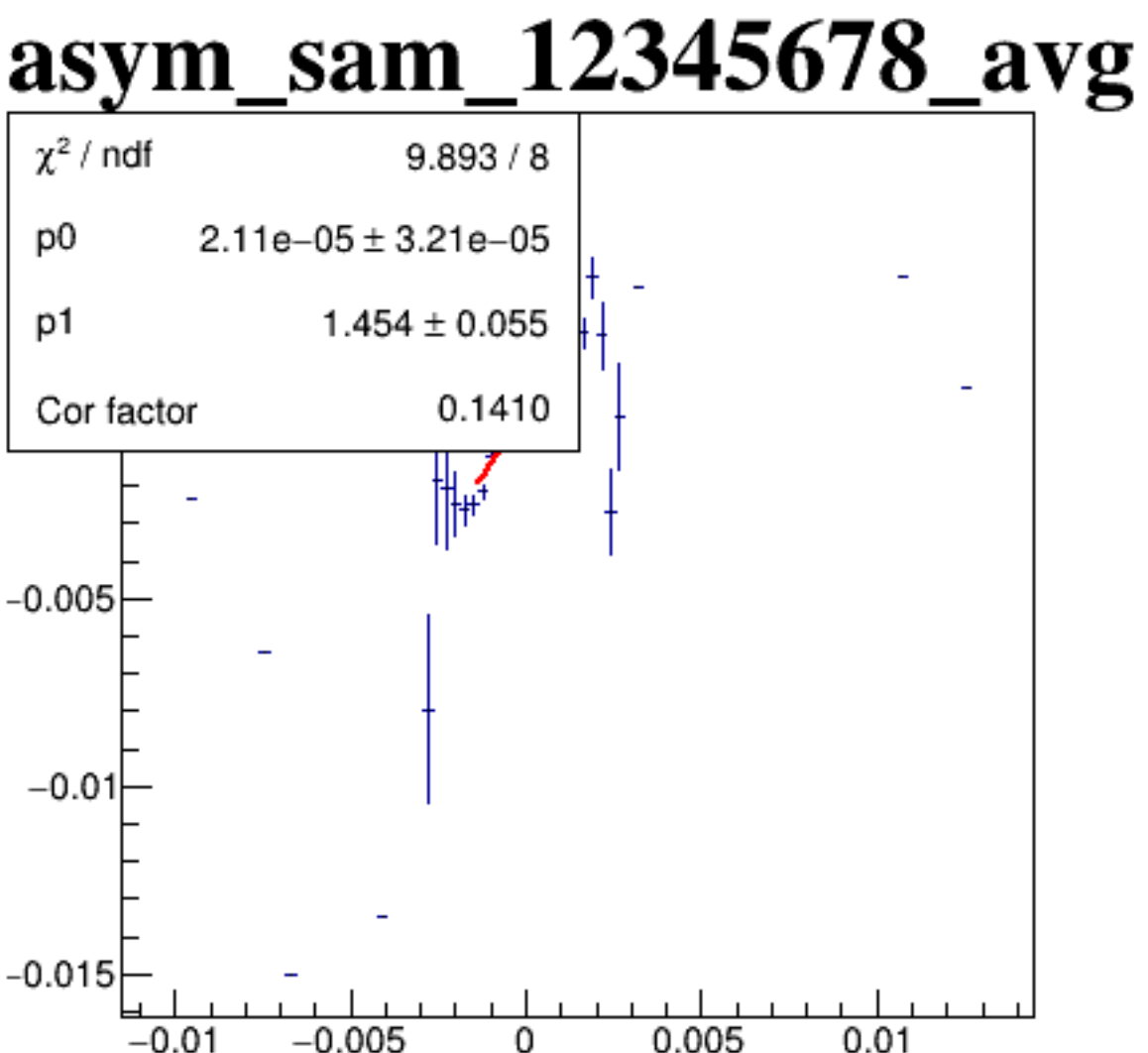
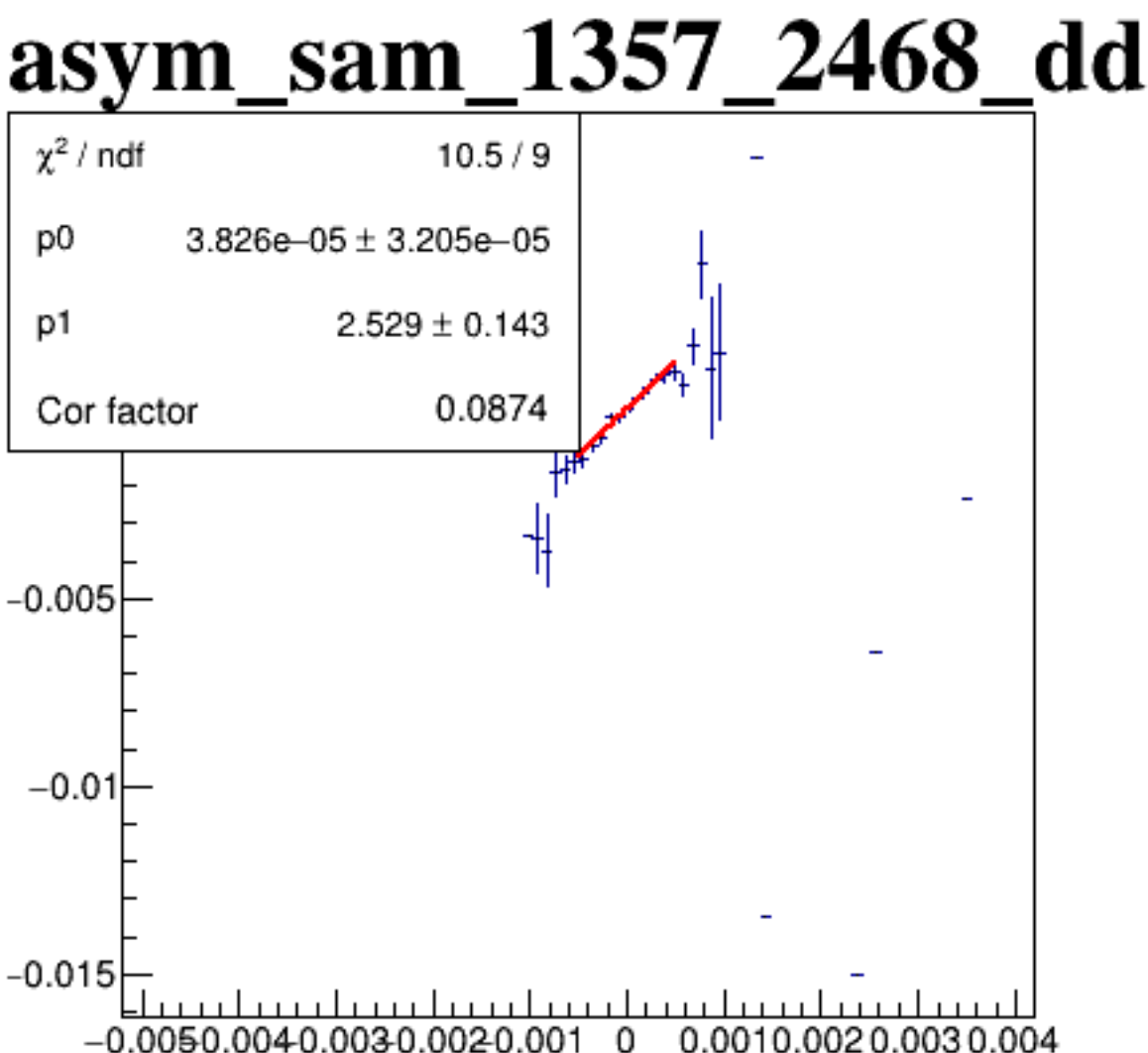
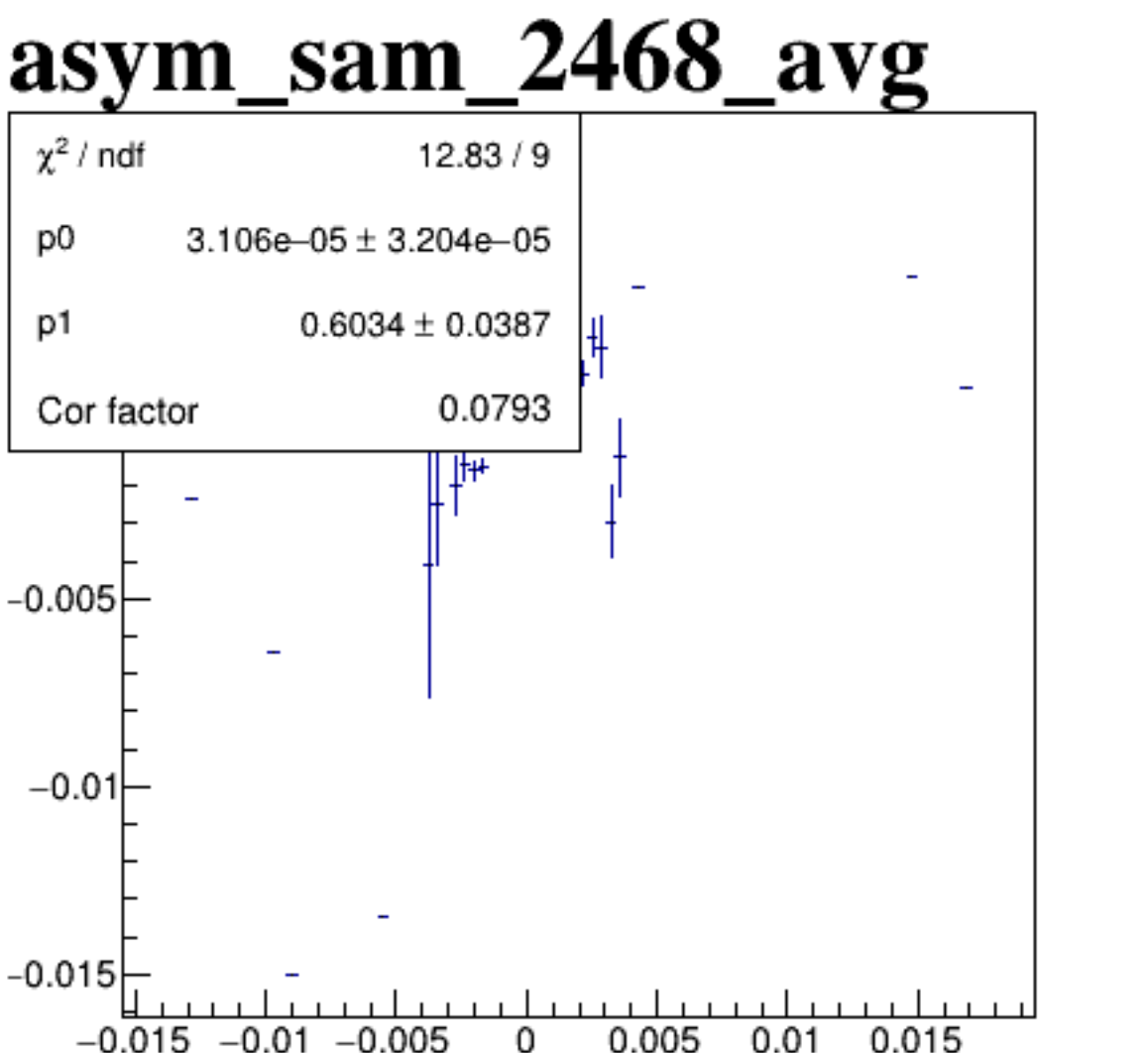
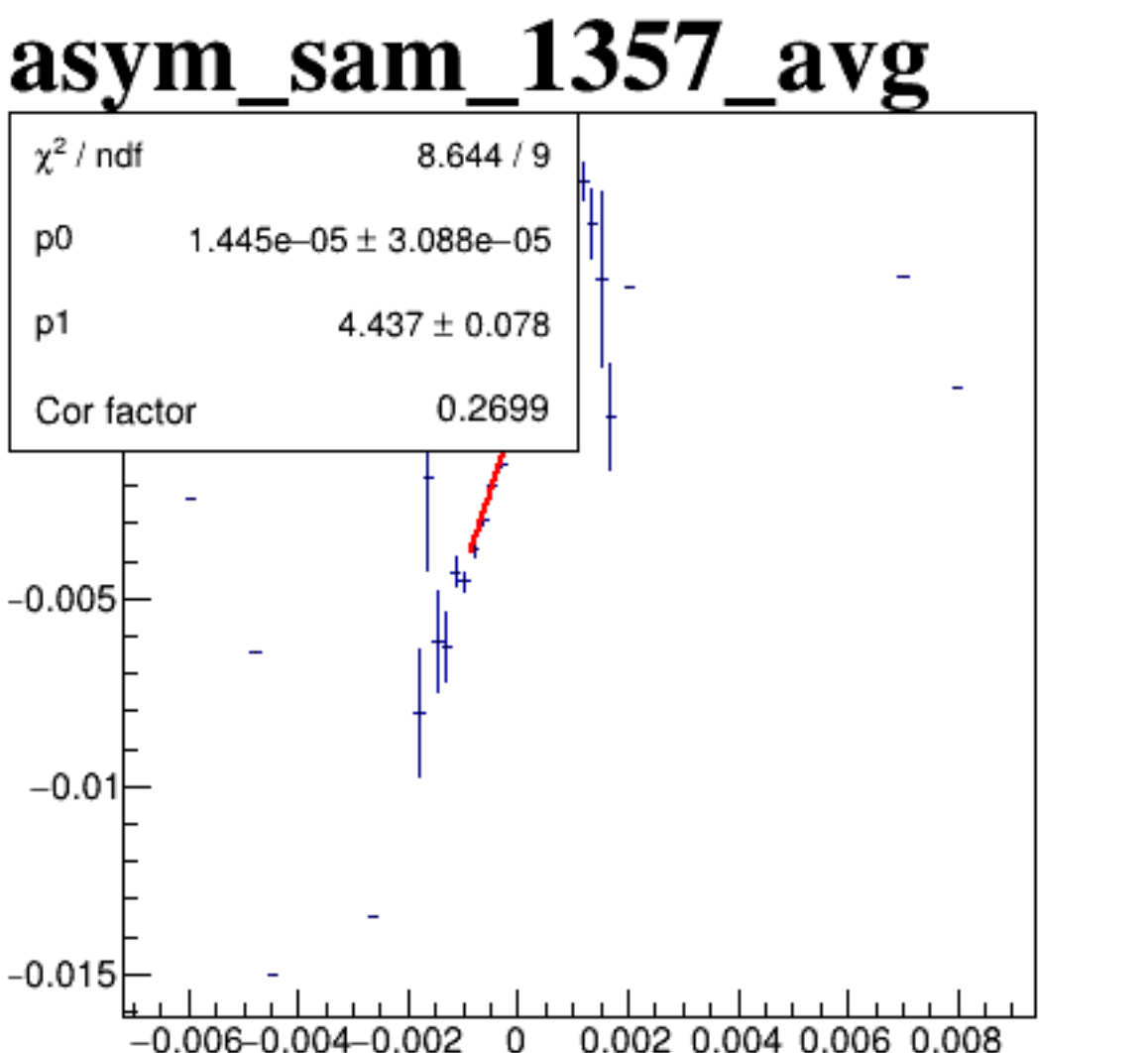
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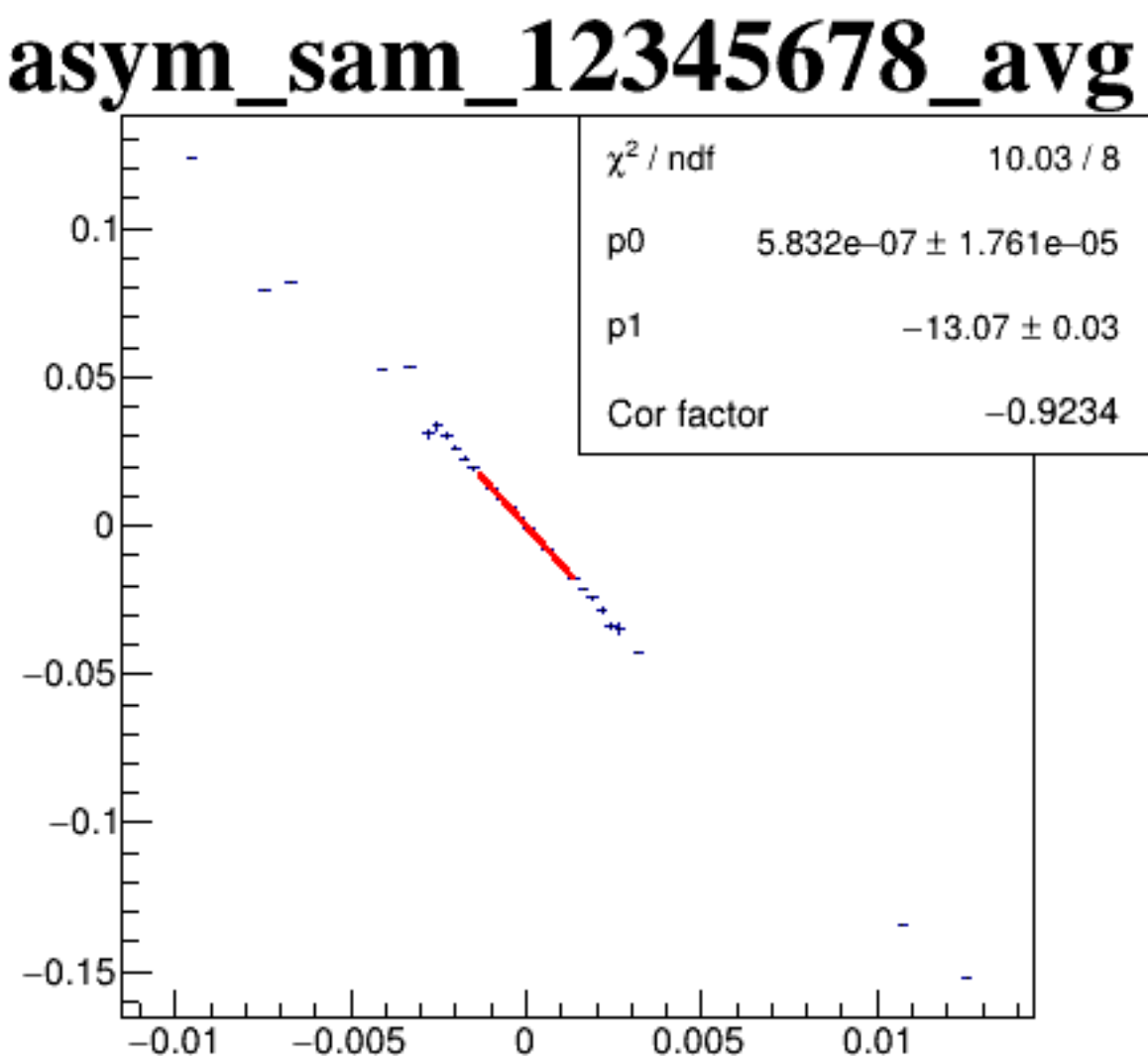
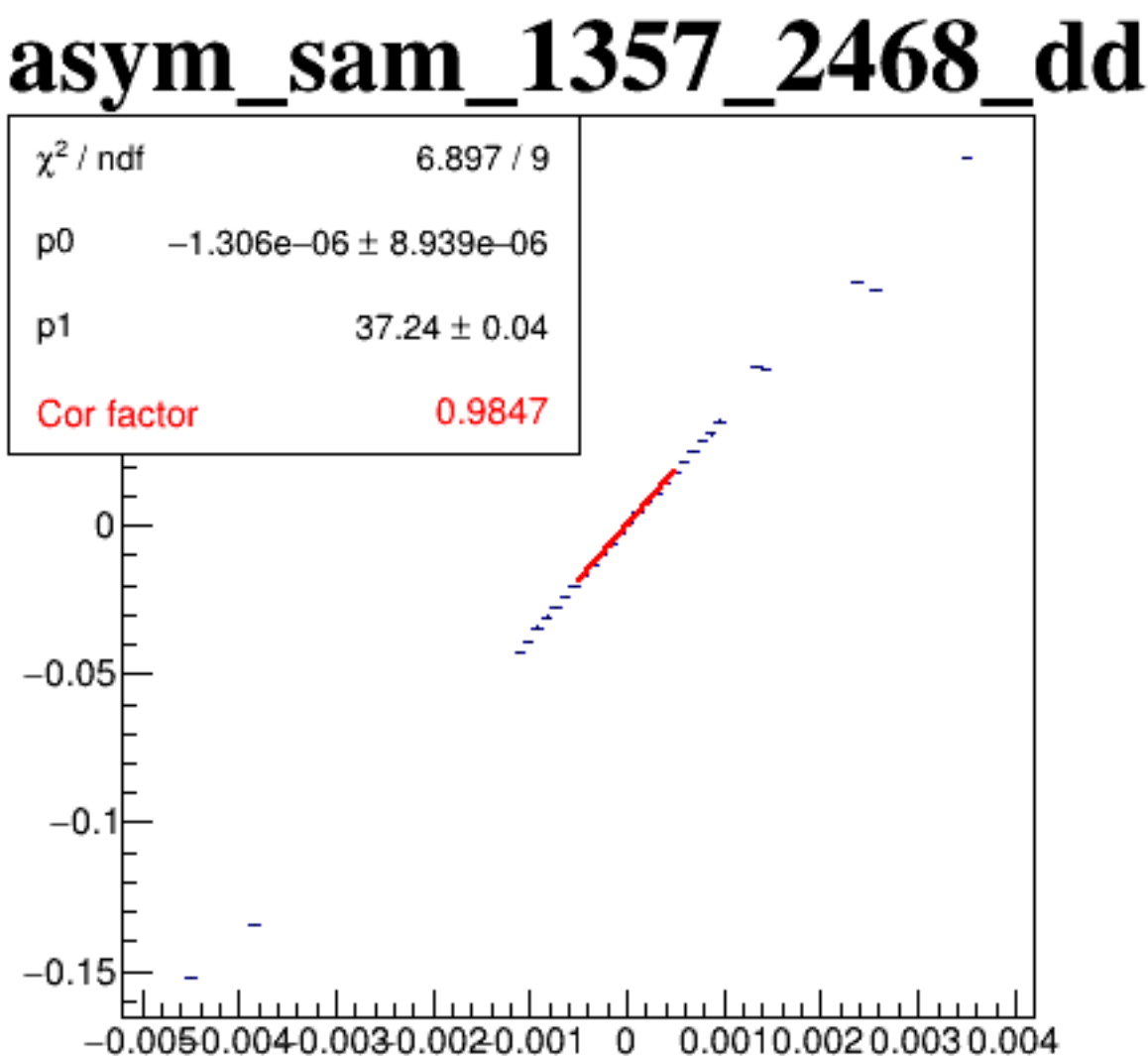
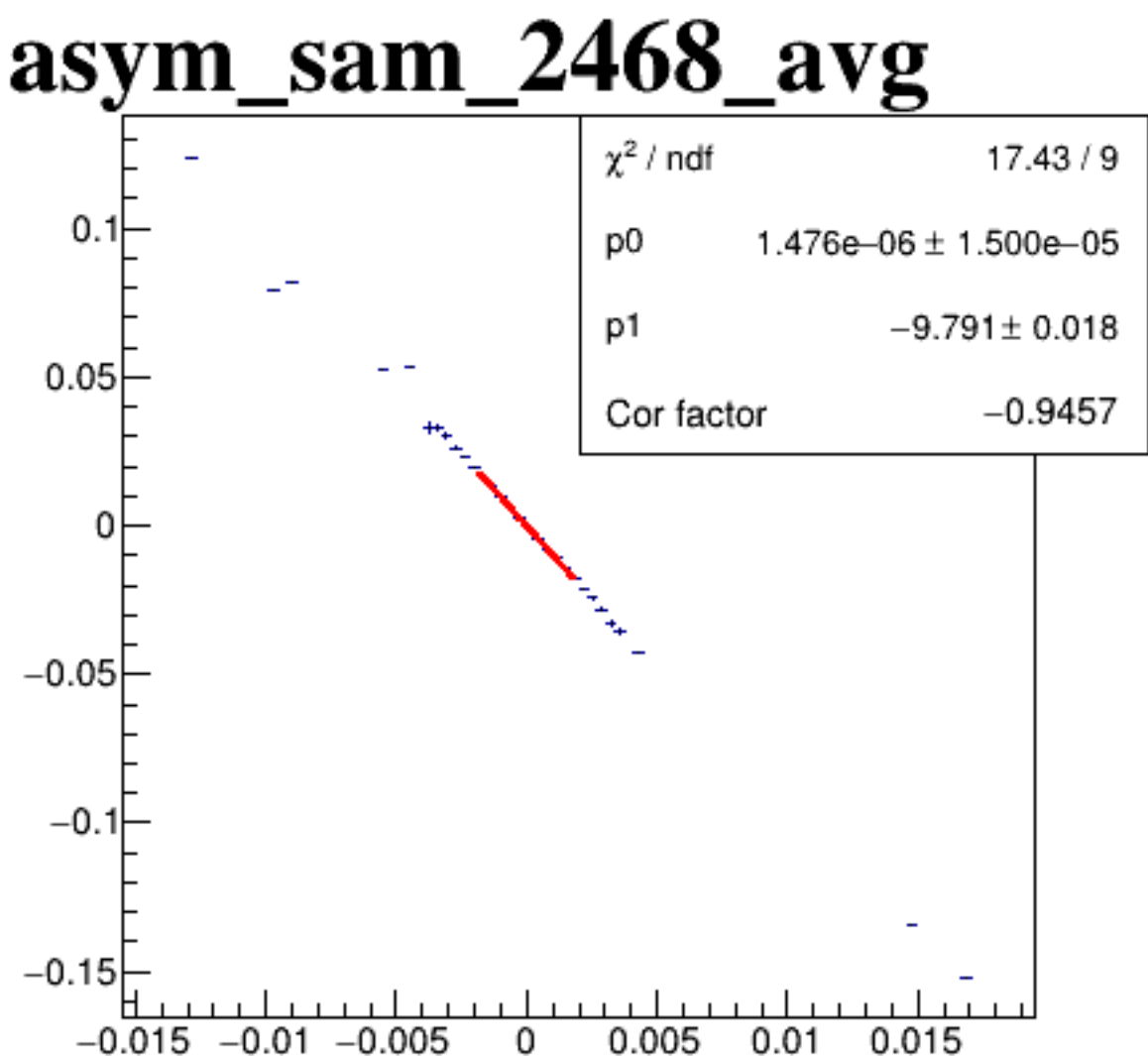
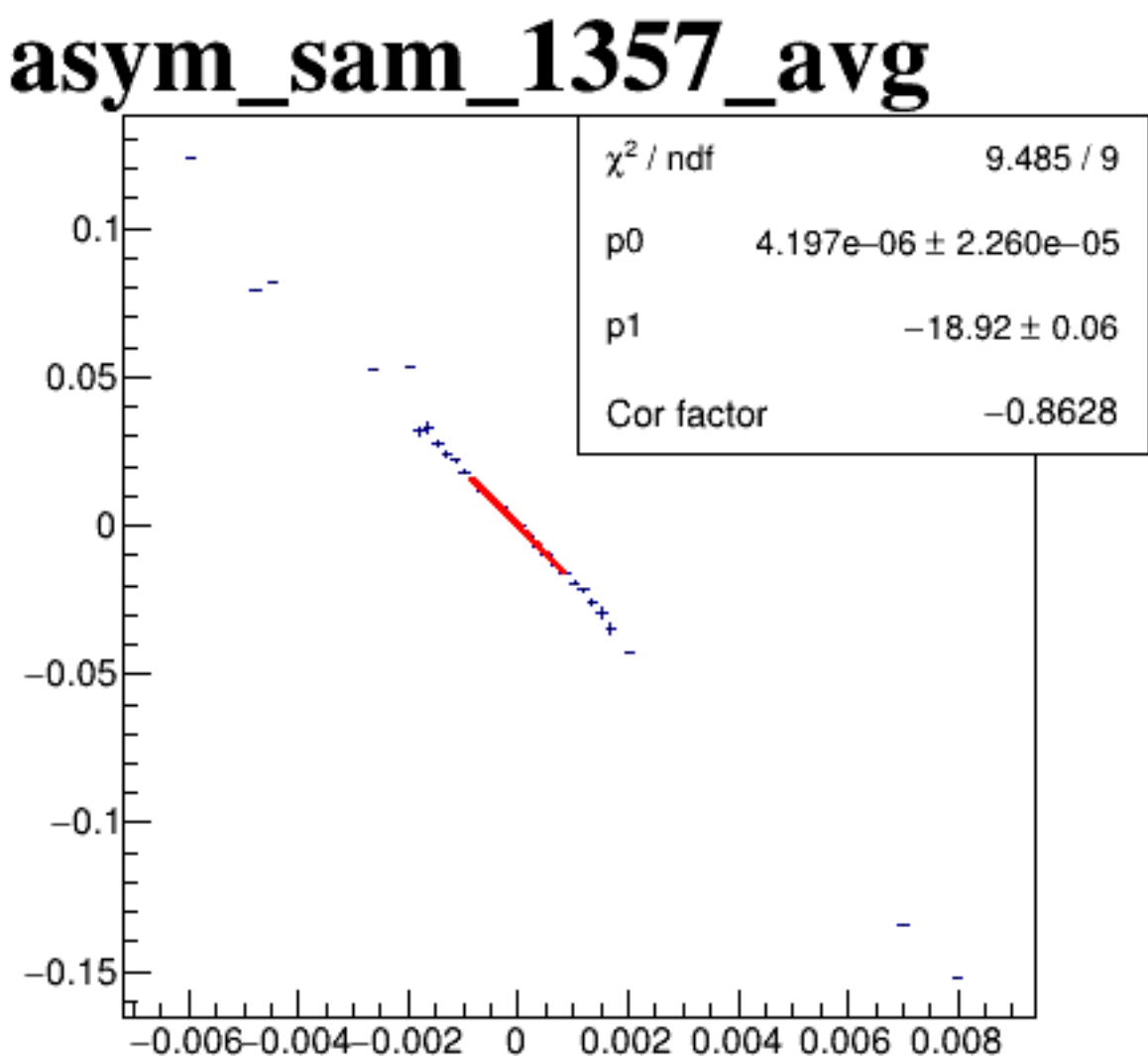
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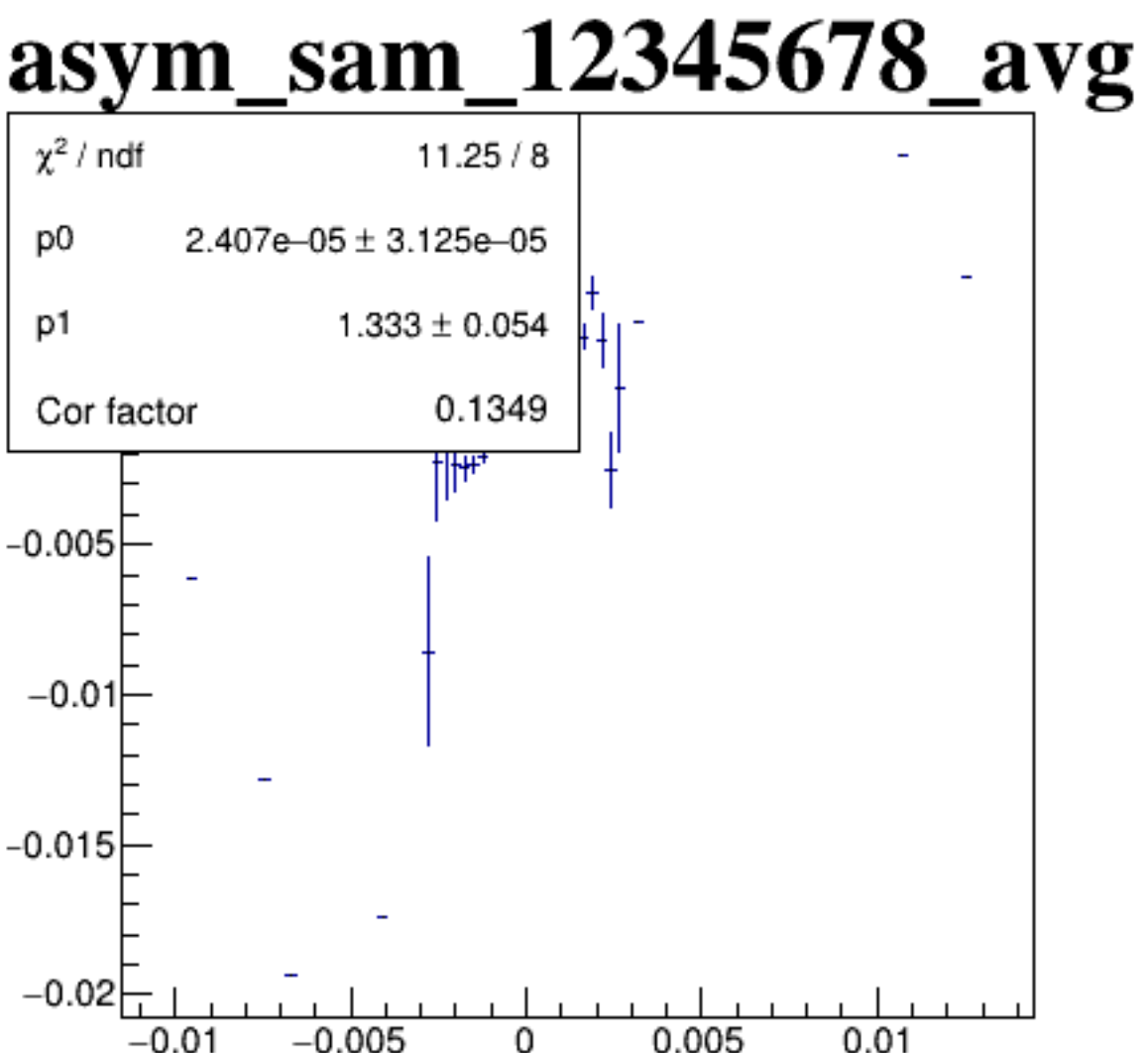
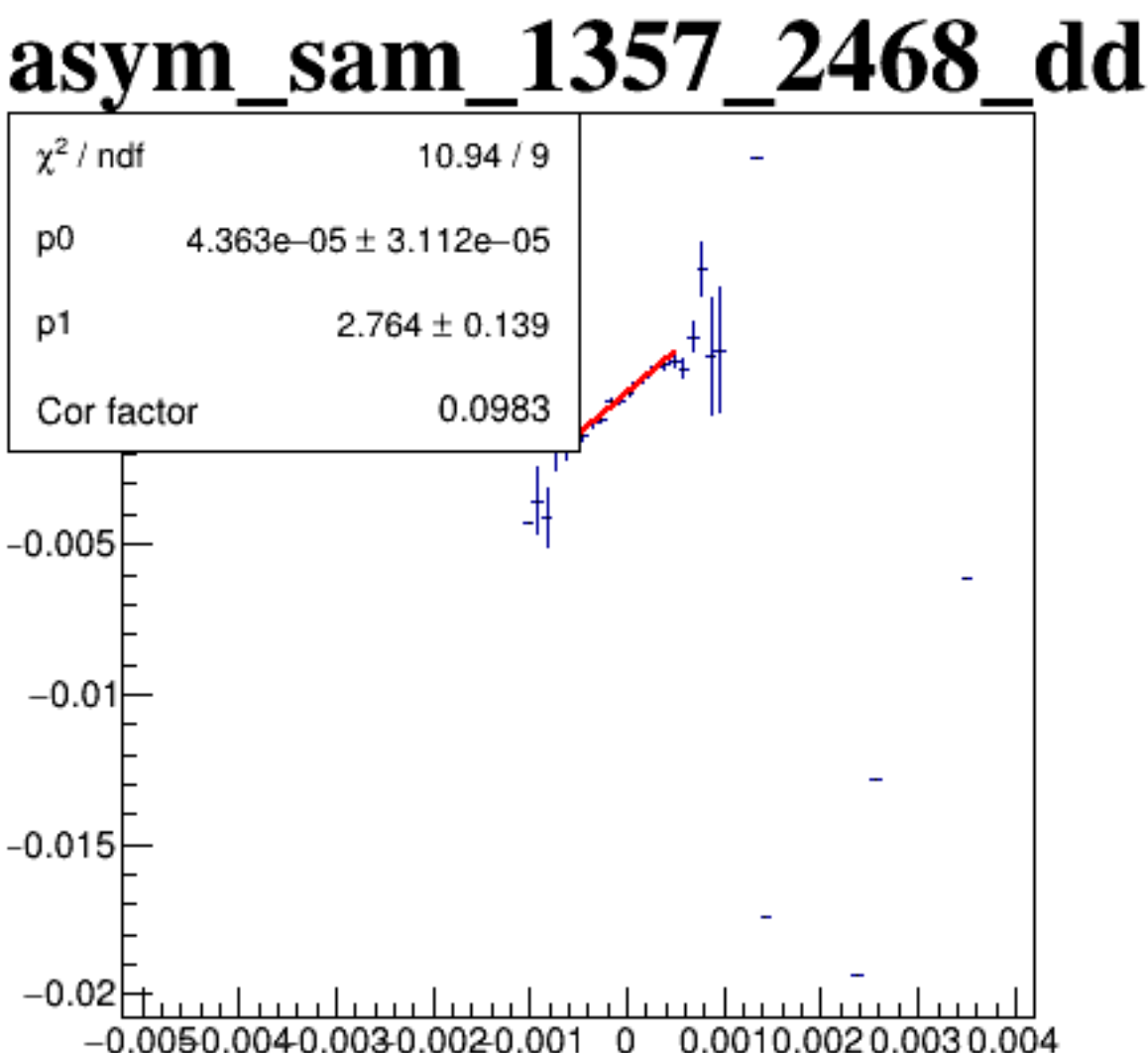
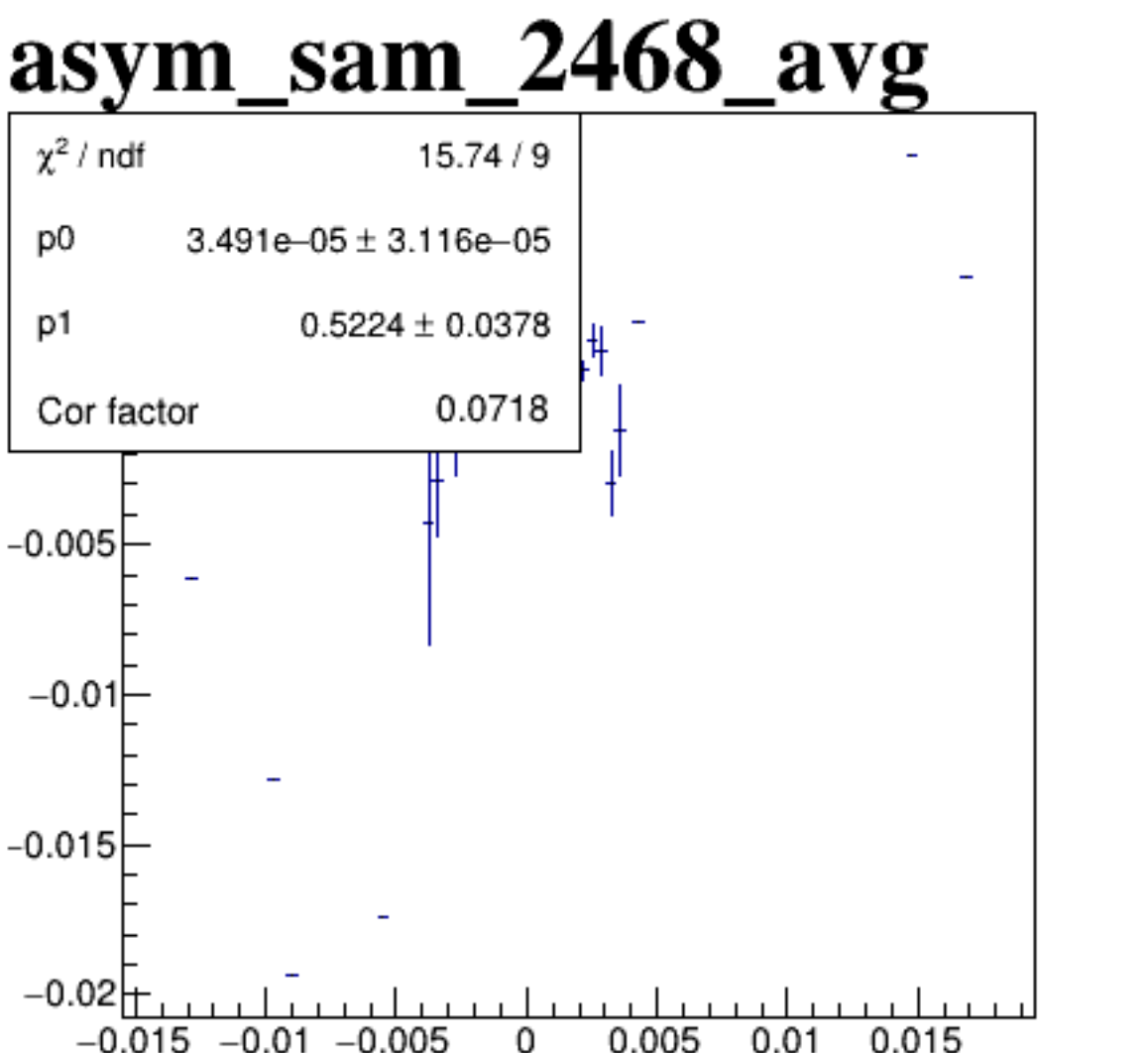
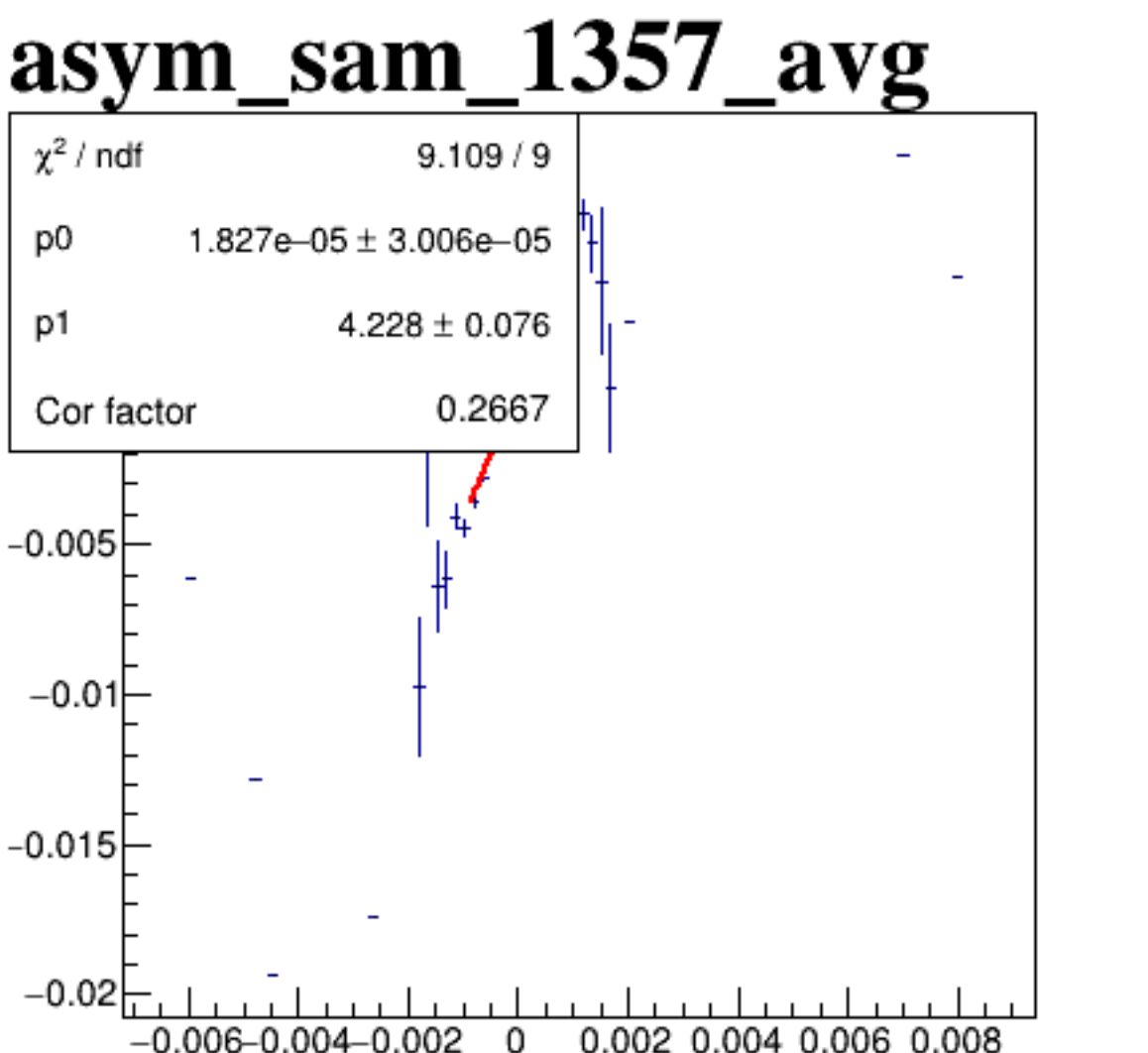
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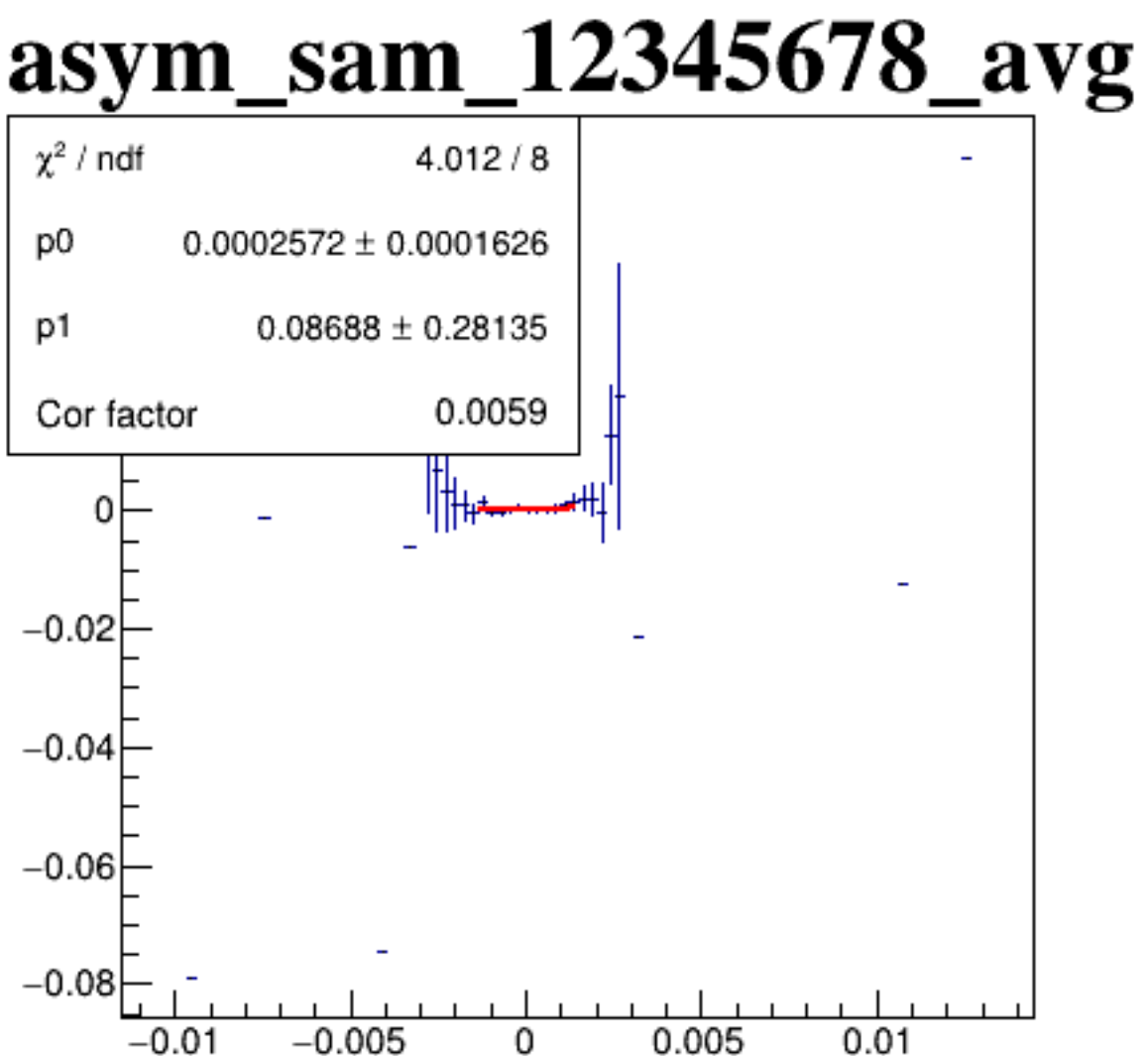
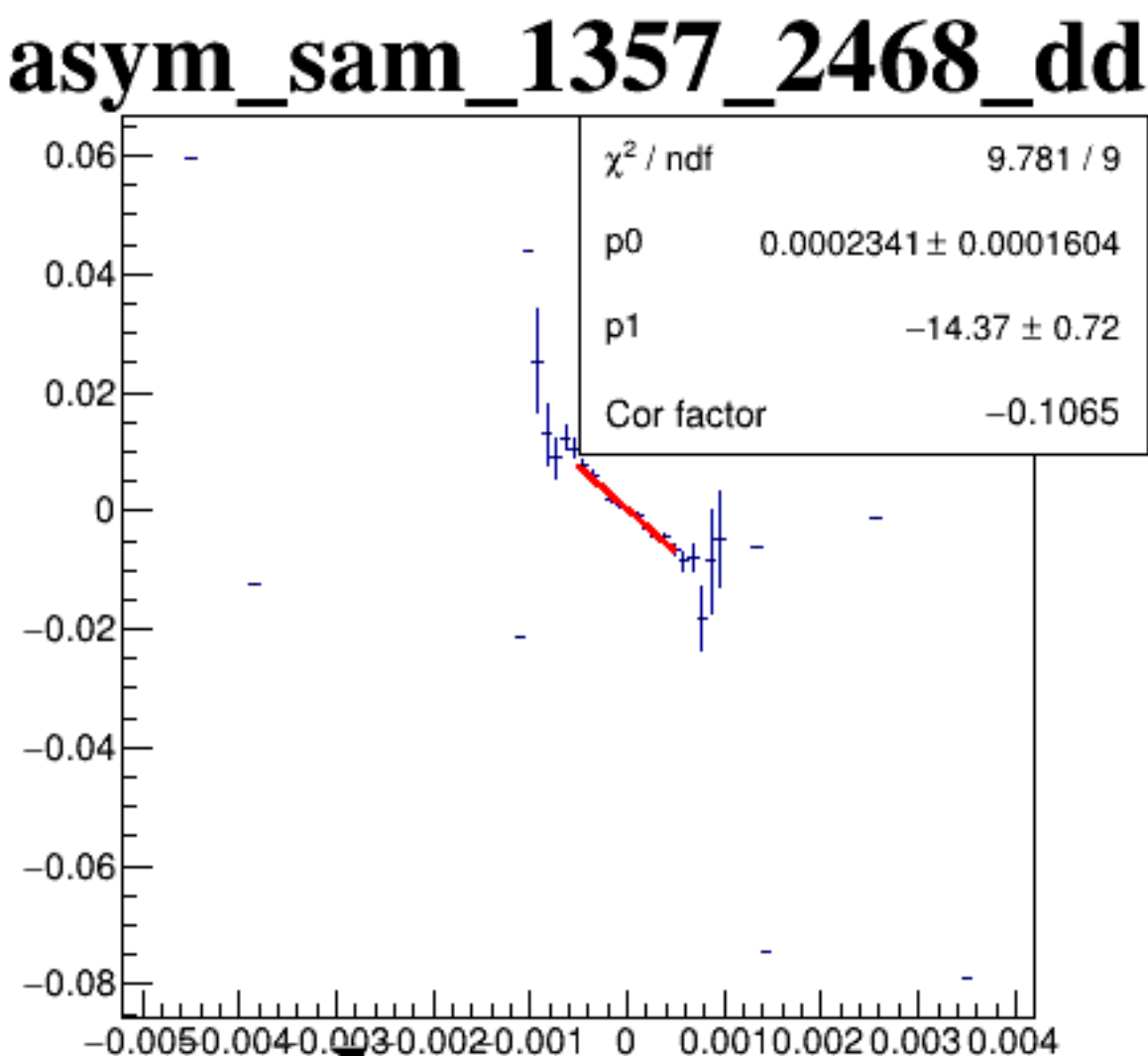
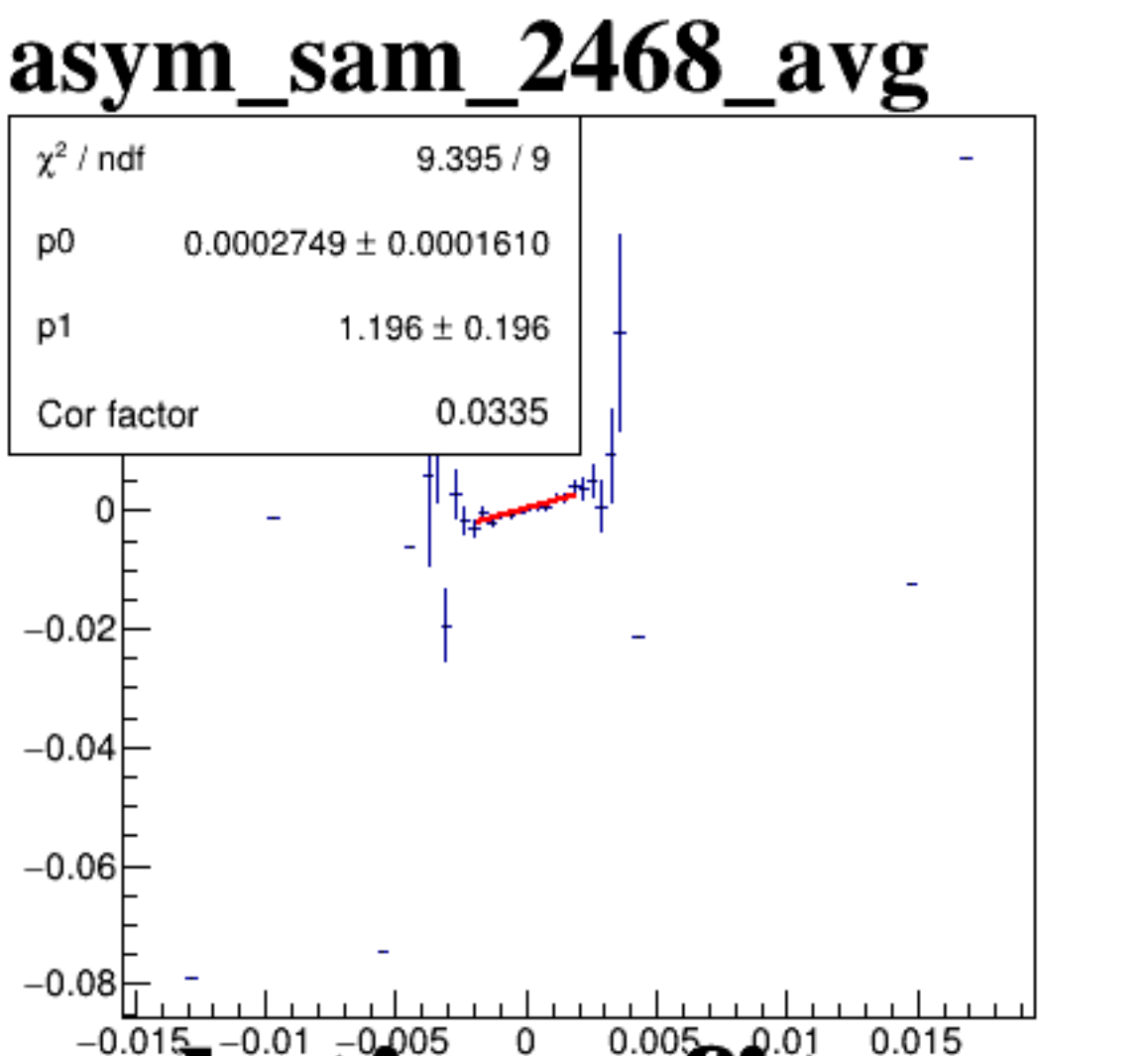
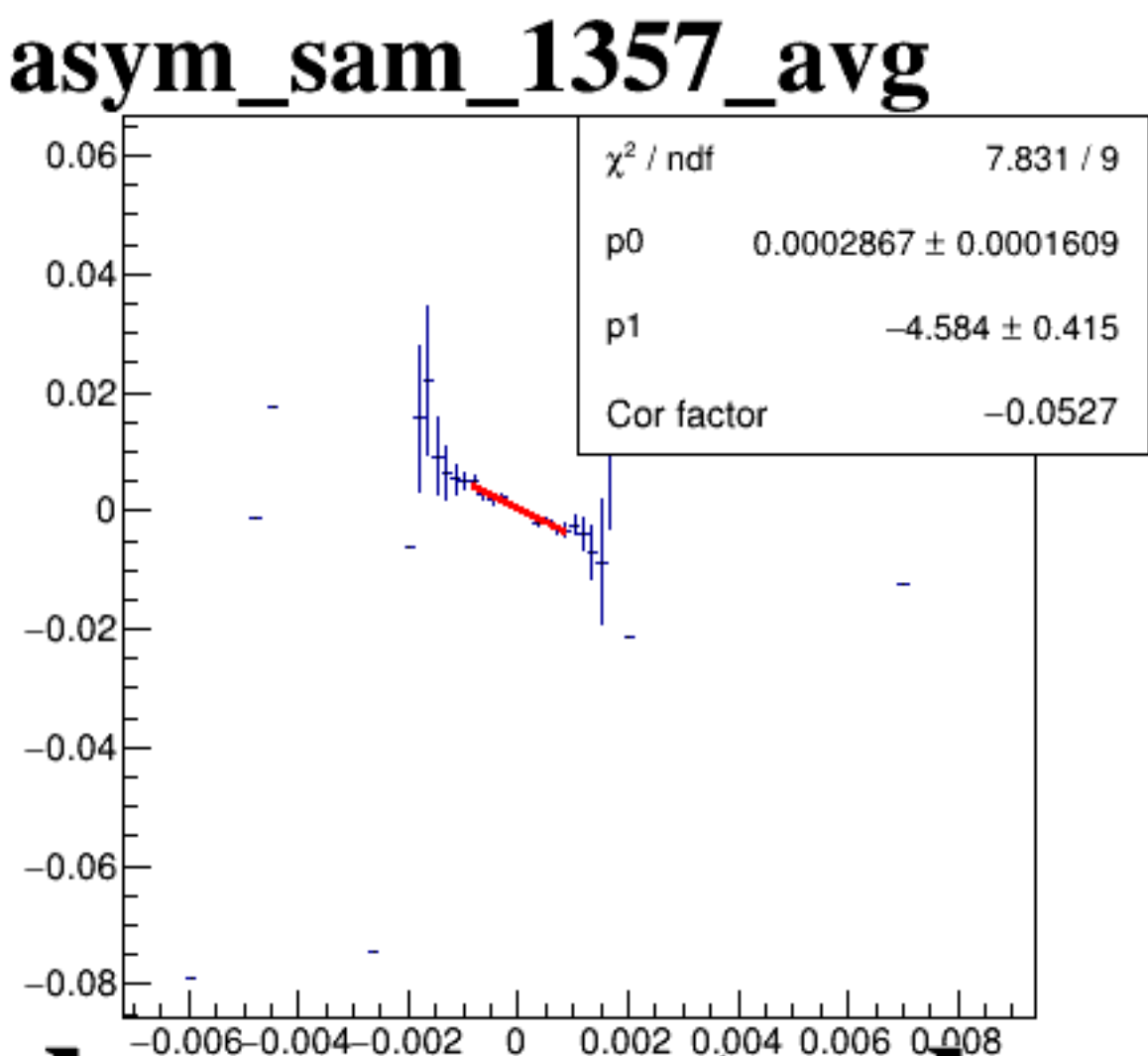
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diff_bpm4eY



diff_bpm12X

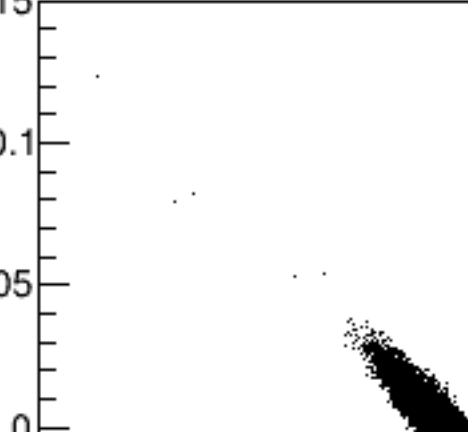


A scatter plot showing the relationship between the average asymmetry of the main component (asym_sam_2468_avg) and the average asymmetry of the multiple component ($\text{mulc.asym_sam_2468_avg}$). The x-axis ranges from -0.015 to 0.015, and the y-axis ranges from -0.15 to 0.15. The data points form a dense, elongated, and slightly curved cluster centered around the origin, indicating a strong positive correlation between the two variables.

A scatter plot showing the relationship between **asym_sam_1357_avg** (y-axis) and **mulc.asym_sam_1357_avg** (x-axis). The y-axis ranges from -0.15 to 0.15 with major ticks every 0.05. The x-axis ranges from -0.006 to 0.008 with major ticks every 0.002. The data points form a dense, elongated elliptical cluster centered around (0, 0), indicating a strong positive correlation between the two variables.

A scatter plot showing the relationship between `asym_sam_2468_avg` (y-axis) and `mulc.asym_sam_2468_avg` (x-axis). The data points are tightly clustered along a diagonal line, indicating a strong positive correlation. The axes range from -0.15 to 0.15.

A scatter plot showing the relationship between the difference in asymmetry for the 1357 and 2468 bands, calculated using the 'dd' method, and the difference in asymmetry for the same bands, calculated using the 'mulc' method. The x-axis is labeled 'mulc.asym_sam_1357_2468_dd' and ranges from -0.005 to 0.004. The y-axis is labeled 'asym_sam_1357_2468_dd' and ranges from -0.15 to 0.15. The data points are tightly clustered along a diagonal line, indicating a strong positive correlation between the two methods.



A scatter plot showing the relationship between 'asym_sam_12345678_avg' (y-axis) and 'mulc.asym_sam_12345678_avg' (x-axis). The y-axis ranges from -0.15 to 0.15 with major ticks every 0.05. The x-axis ranges from -0.01 to 0.01 with major ticks every 0.005. The data points form a dense, elongated, elliptical cluster centered around (0, 0), indicating a strong positive correlation between the two variables.

A scatter plot showing the relationship between `asym_sam_2468_avg` (y-axis) and `mulc.asym_sam_2468_avg` (x-axis). The y-axis ranges from -0.03 to 0.03, and the x-axis ranges from -0.015 to 0.015. The data points are tightly clustered around the origin (0,0), forming a dense, elongated cloud.

run6329_000_diff_bpm_mutual_correlation_scat_sam_combos.png