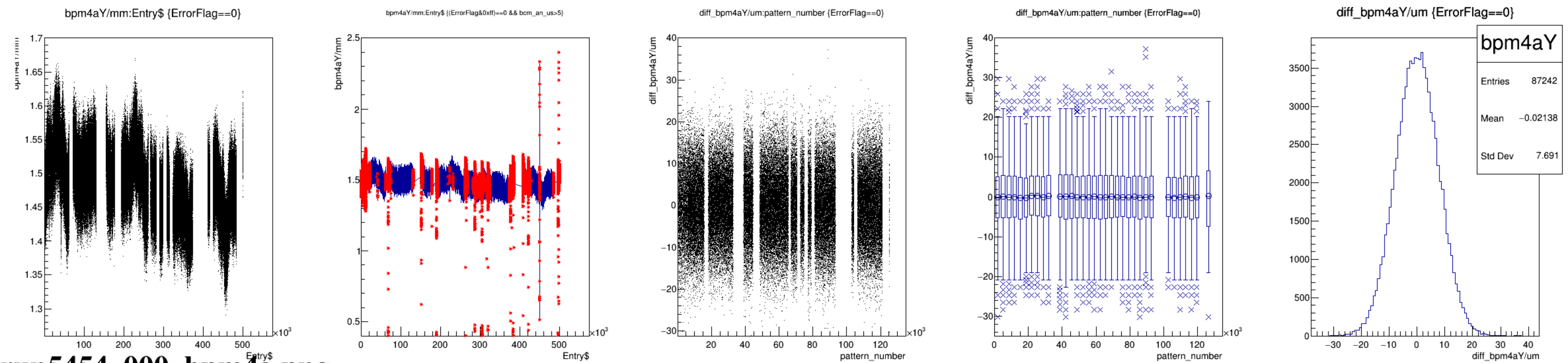
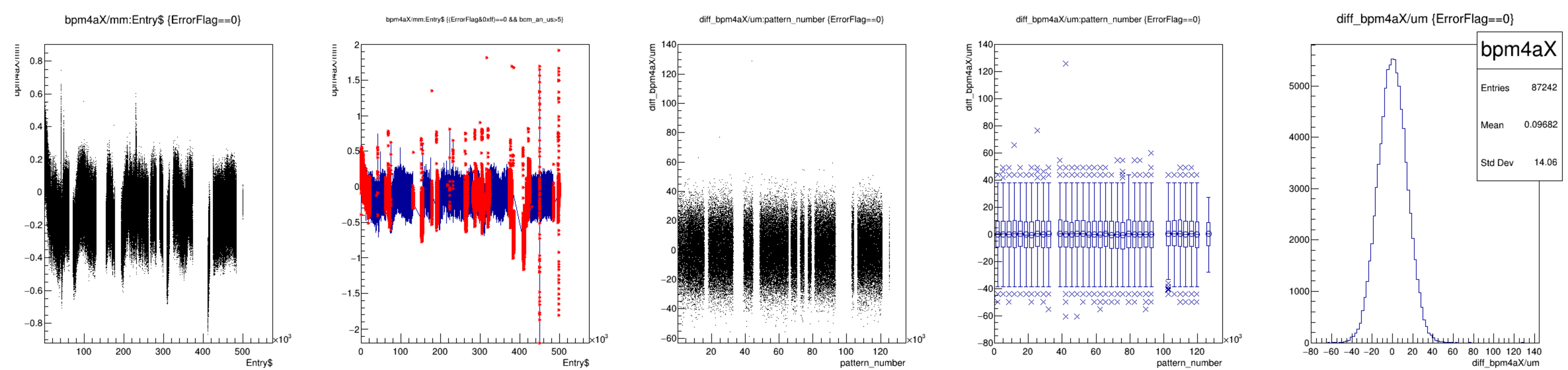
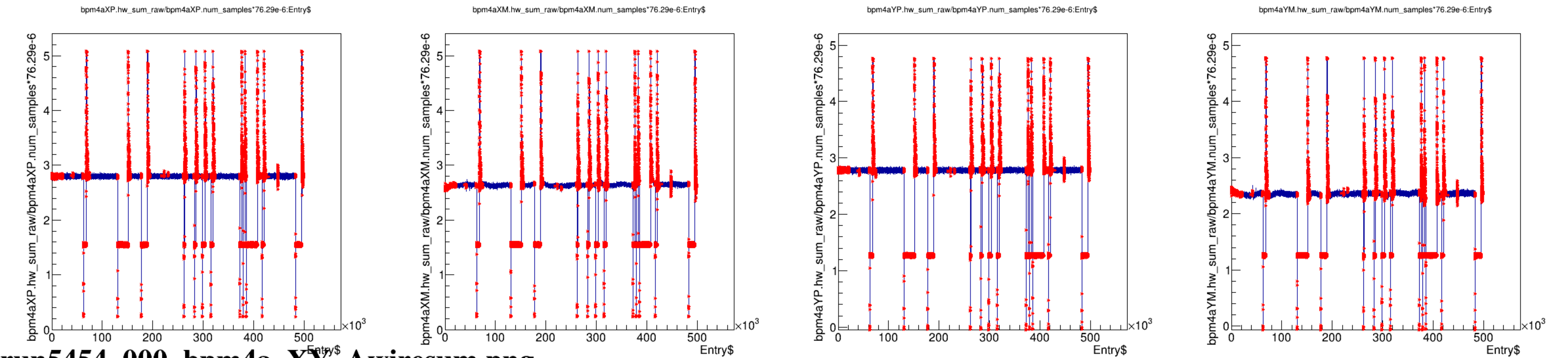
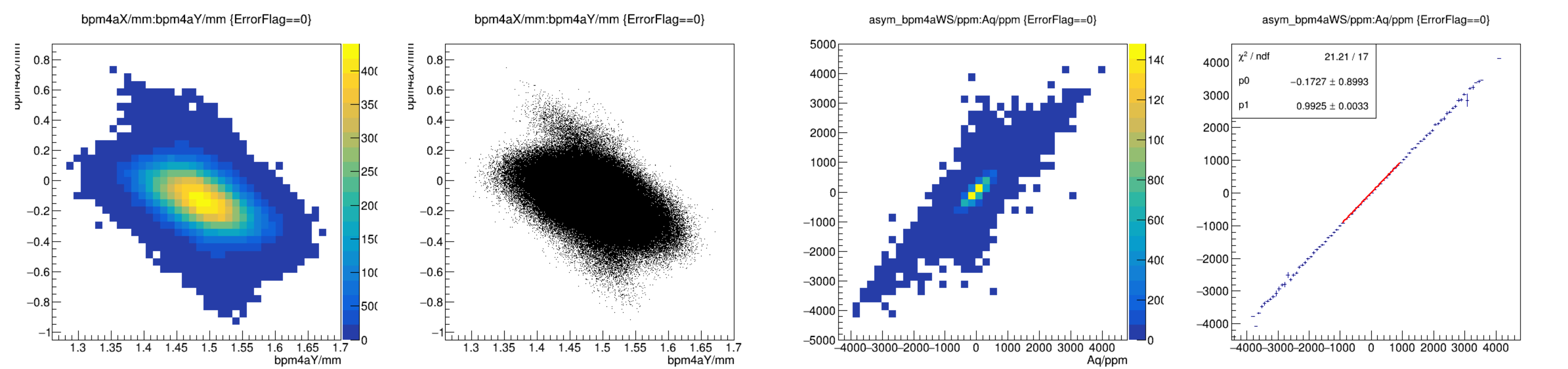
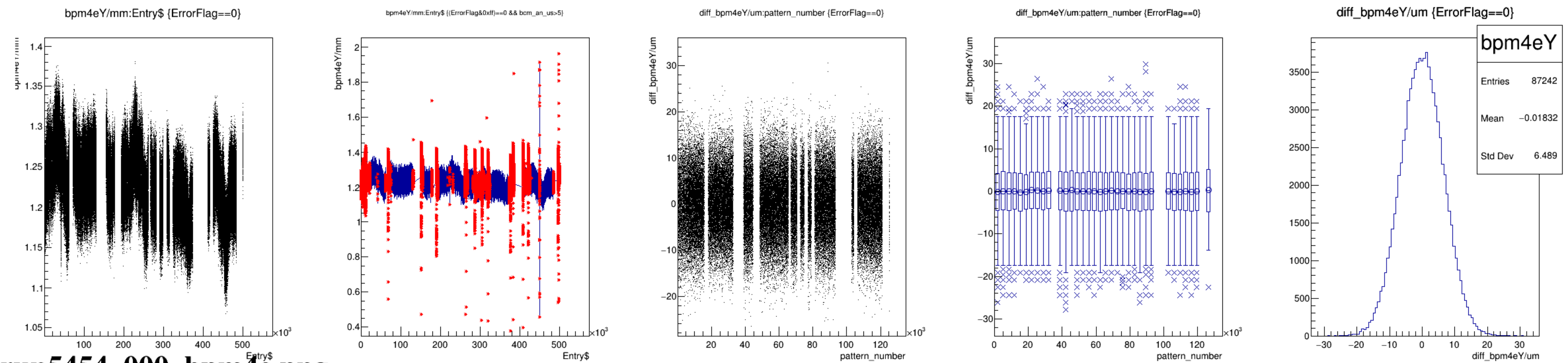
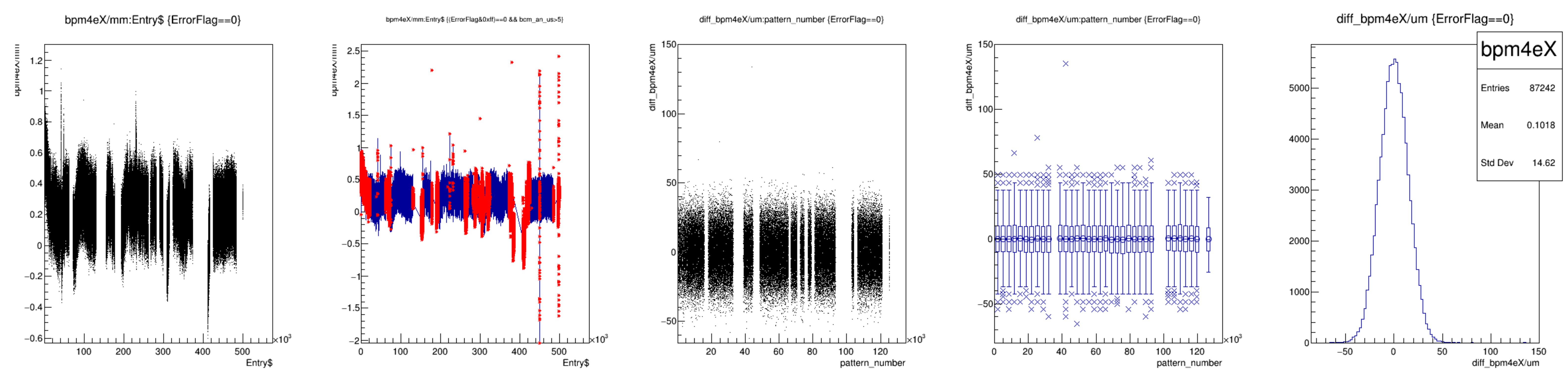
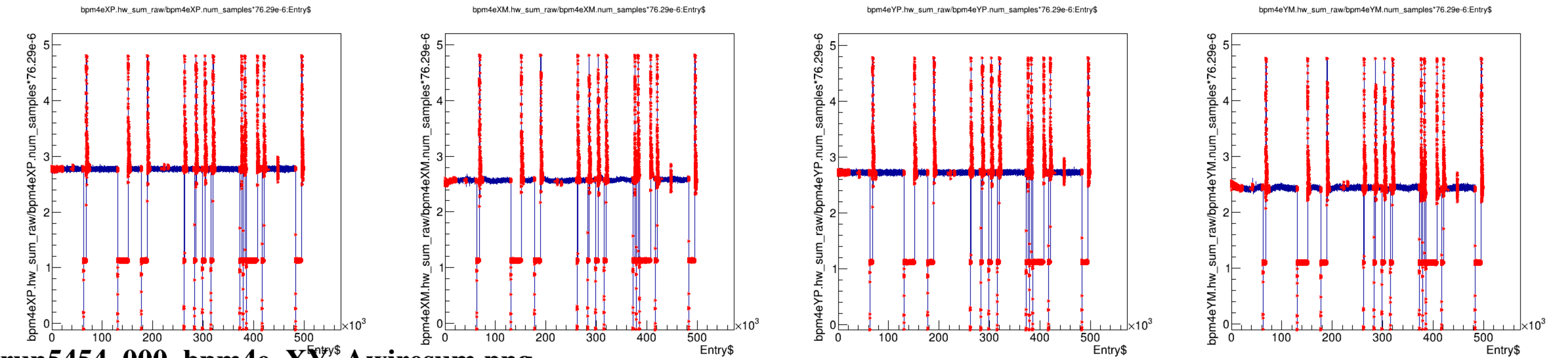
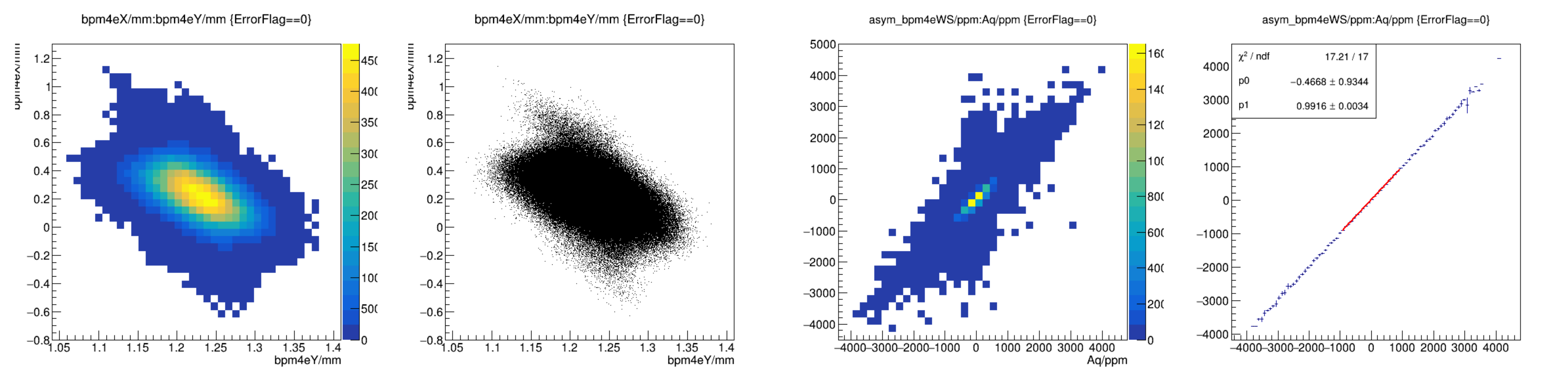


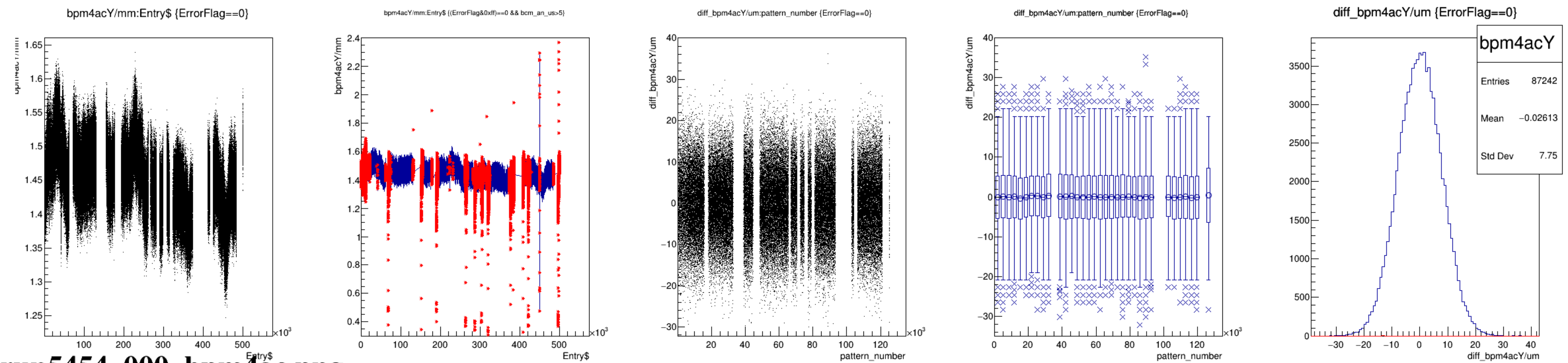
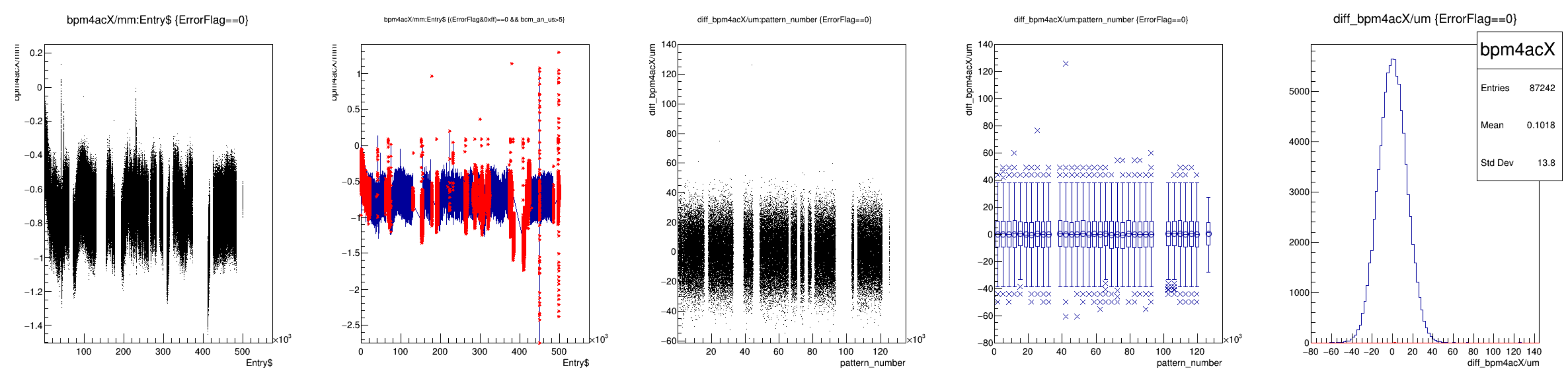


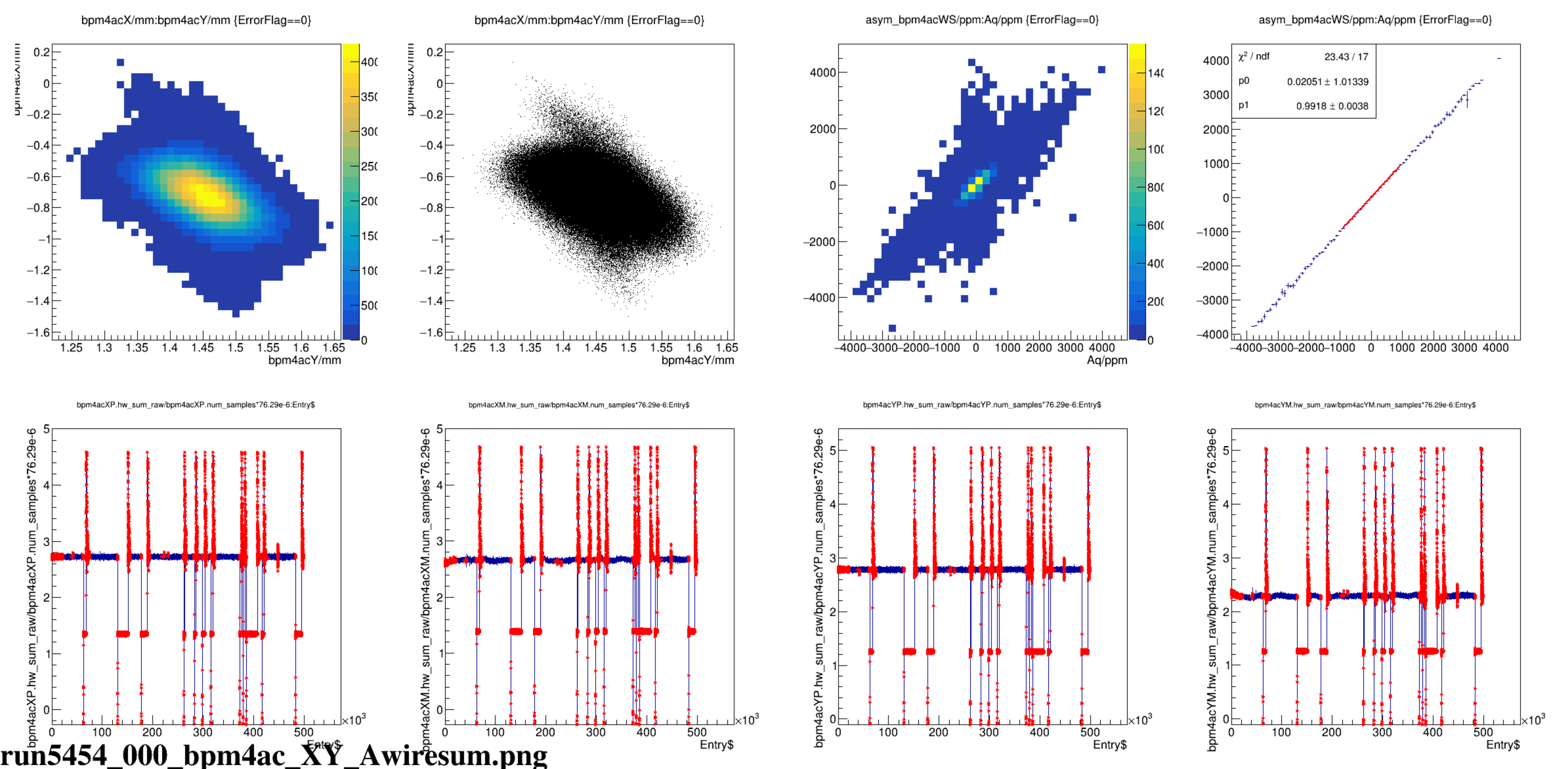


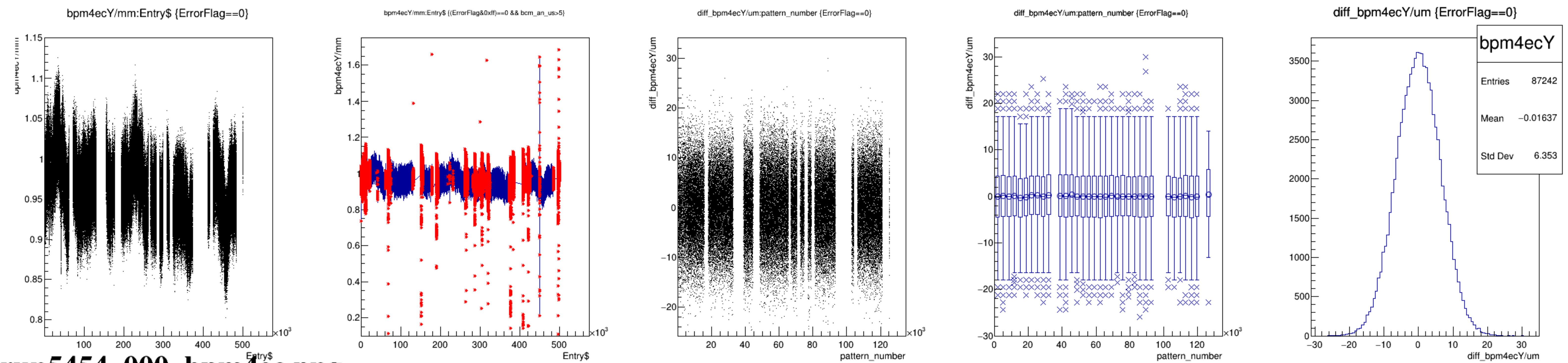
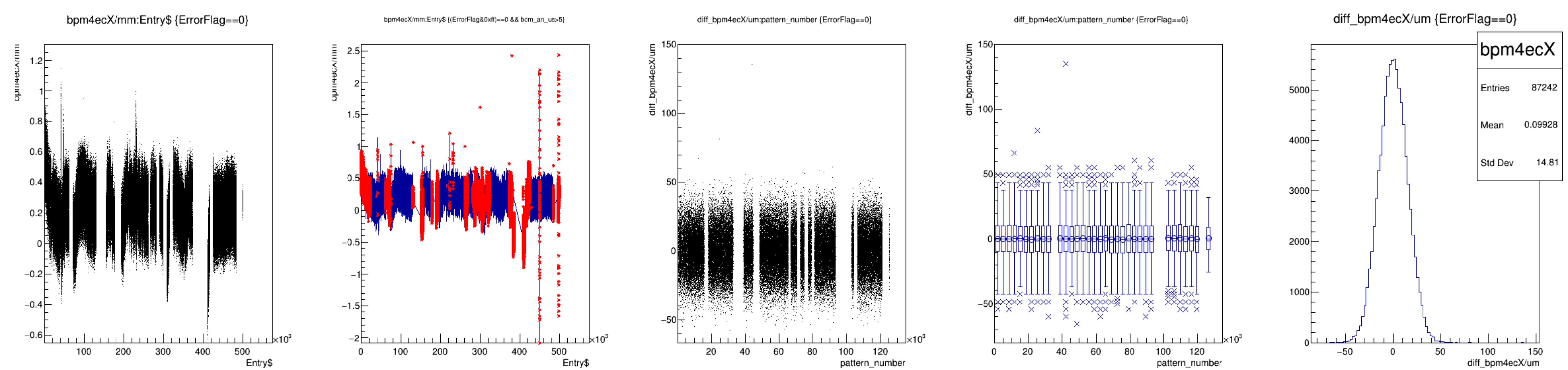


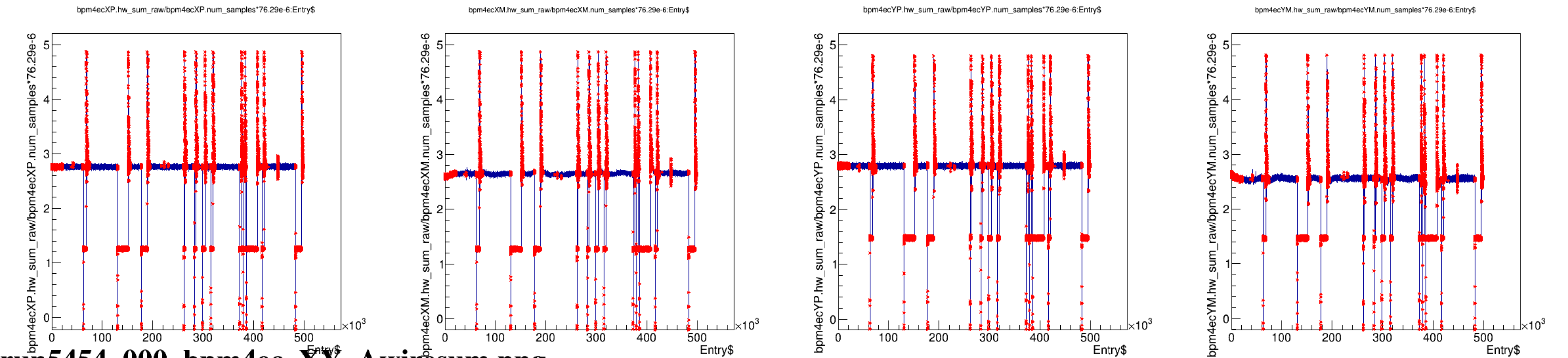
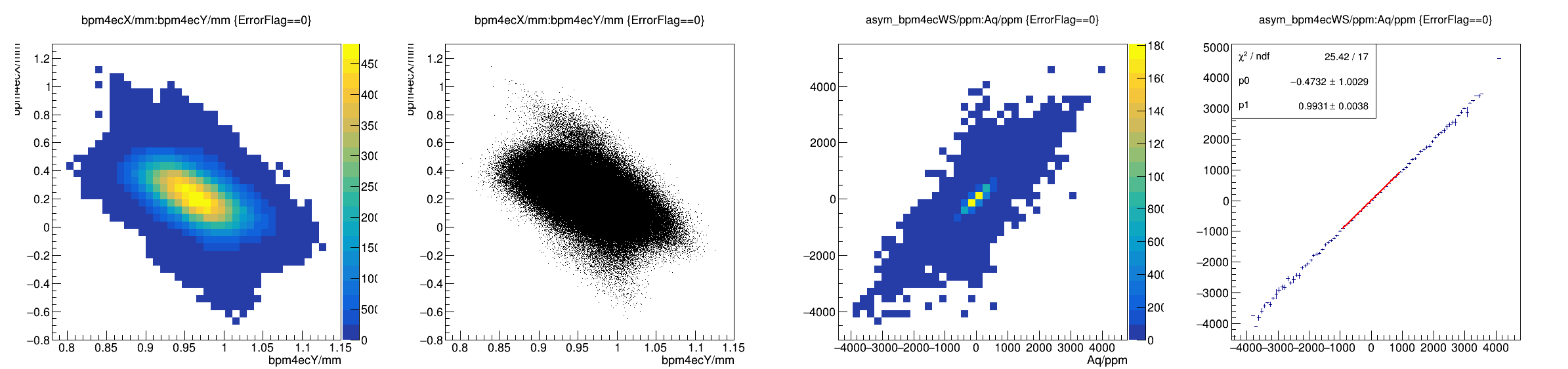


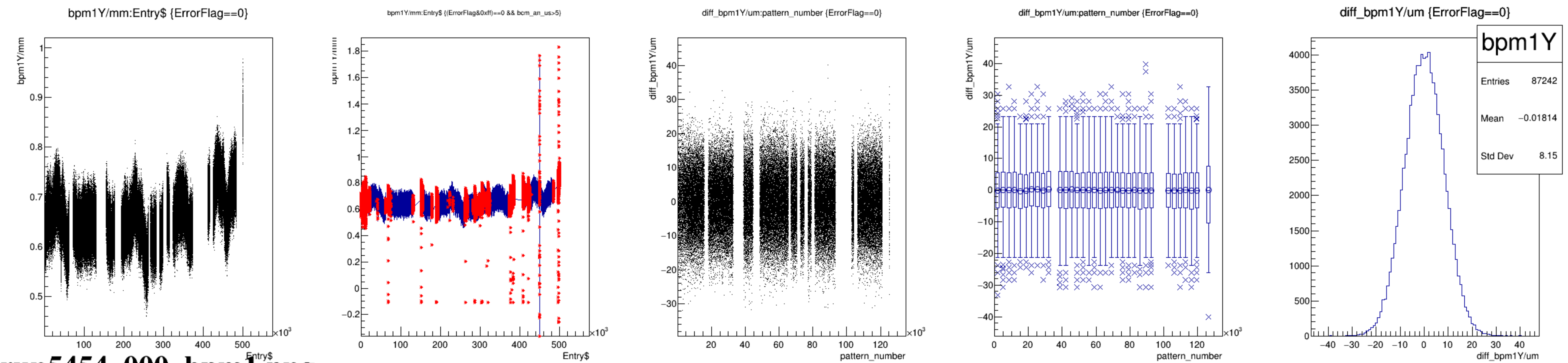
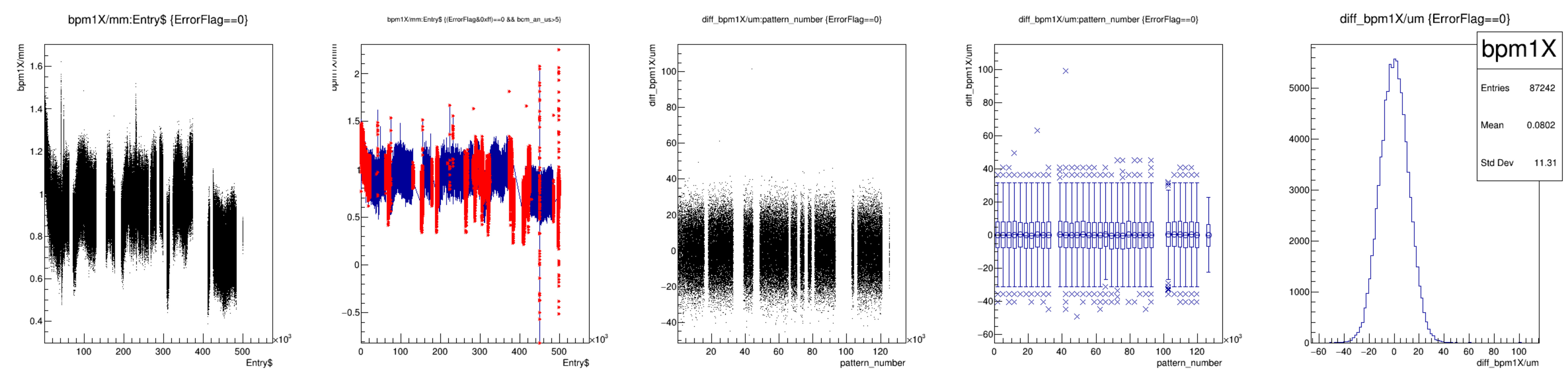
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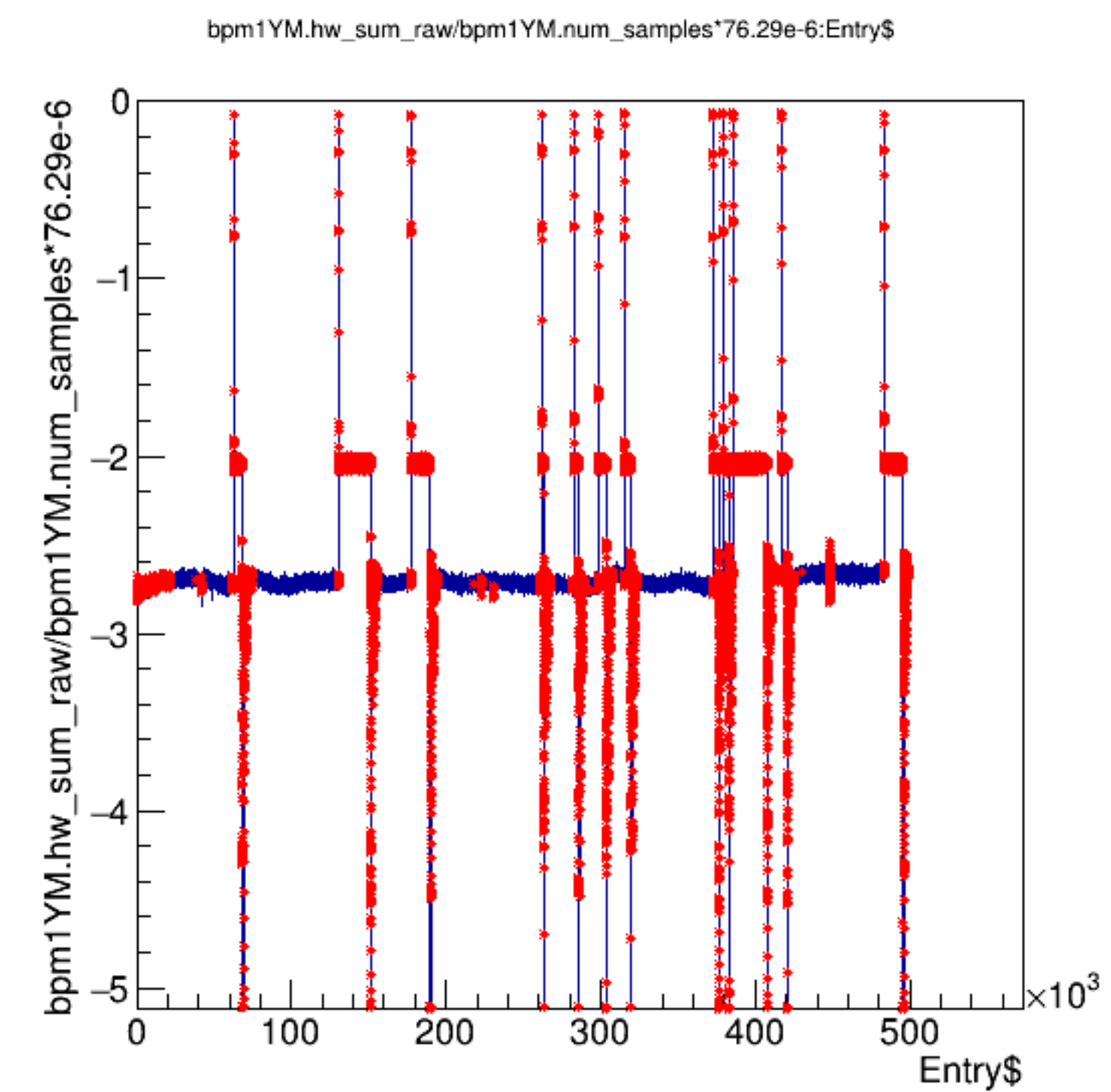
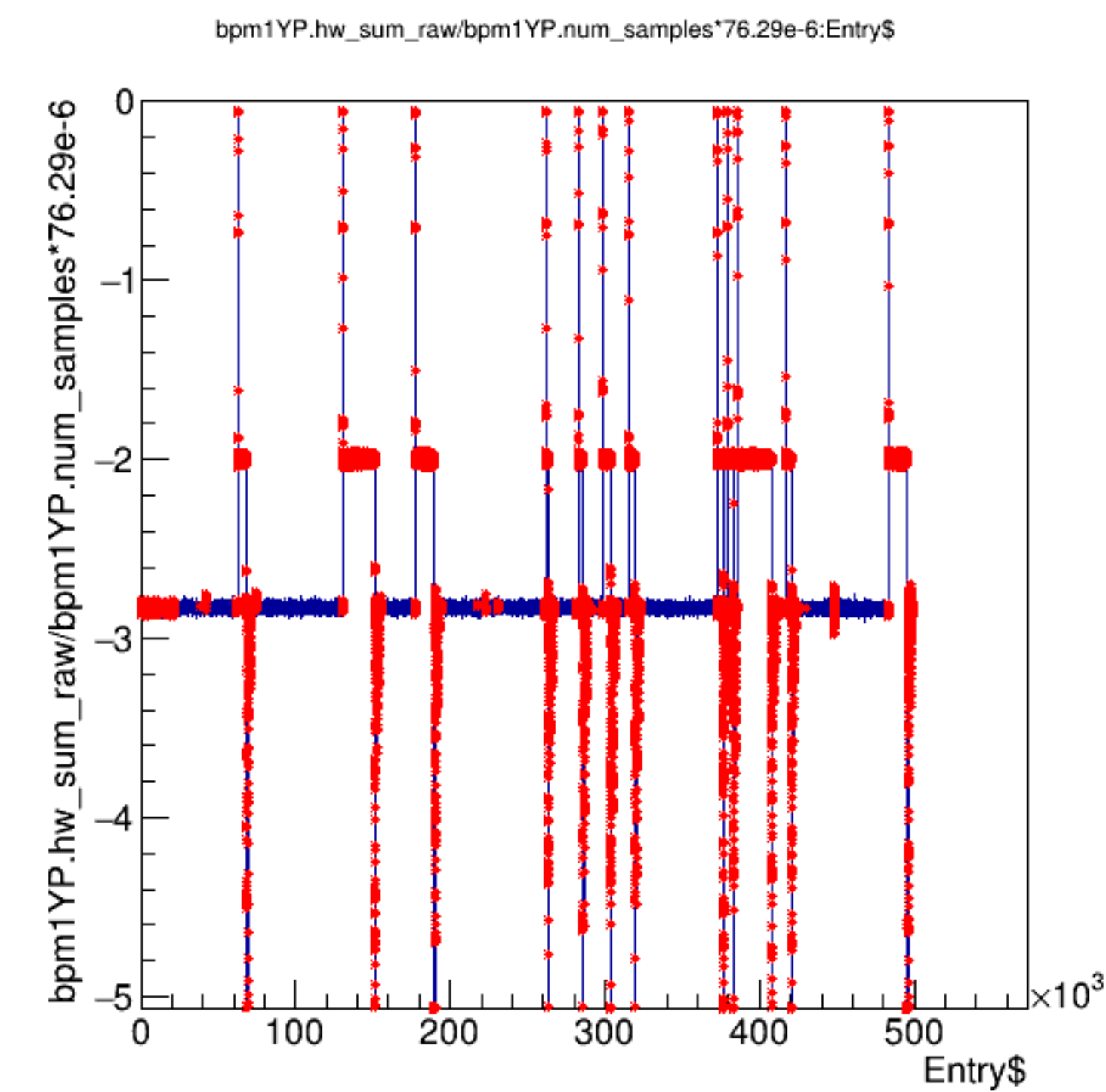
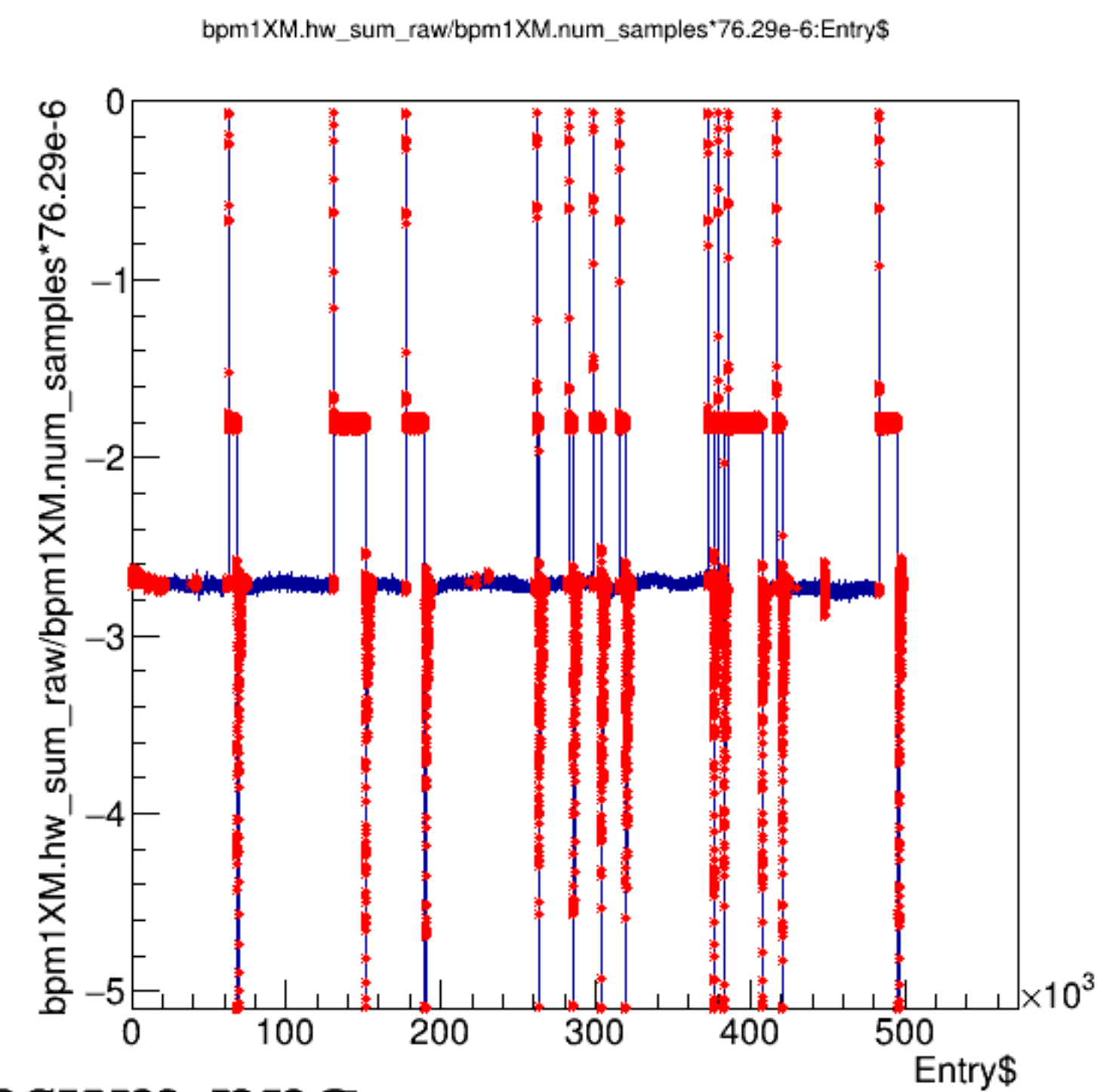
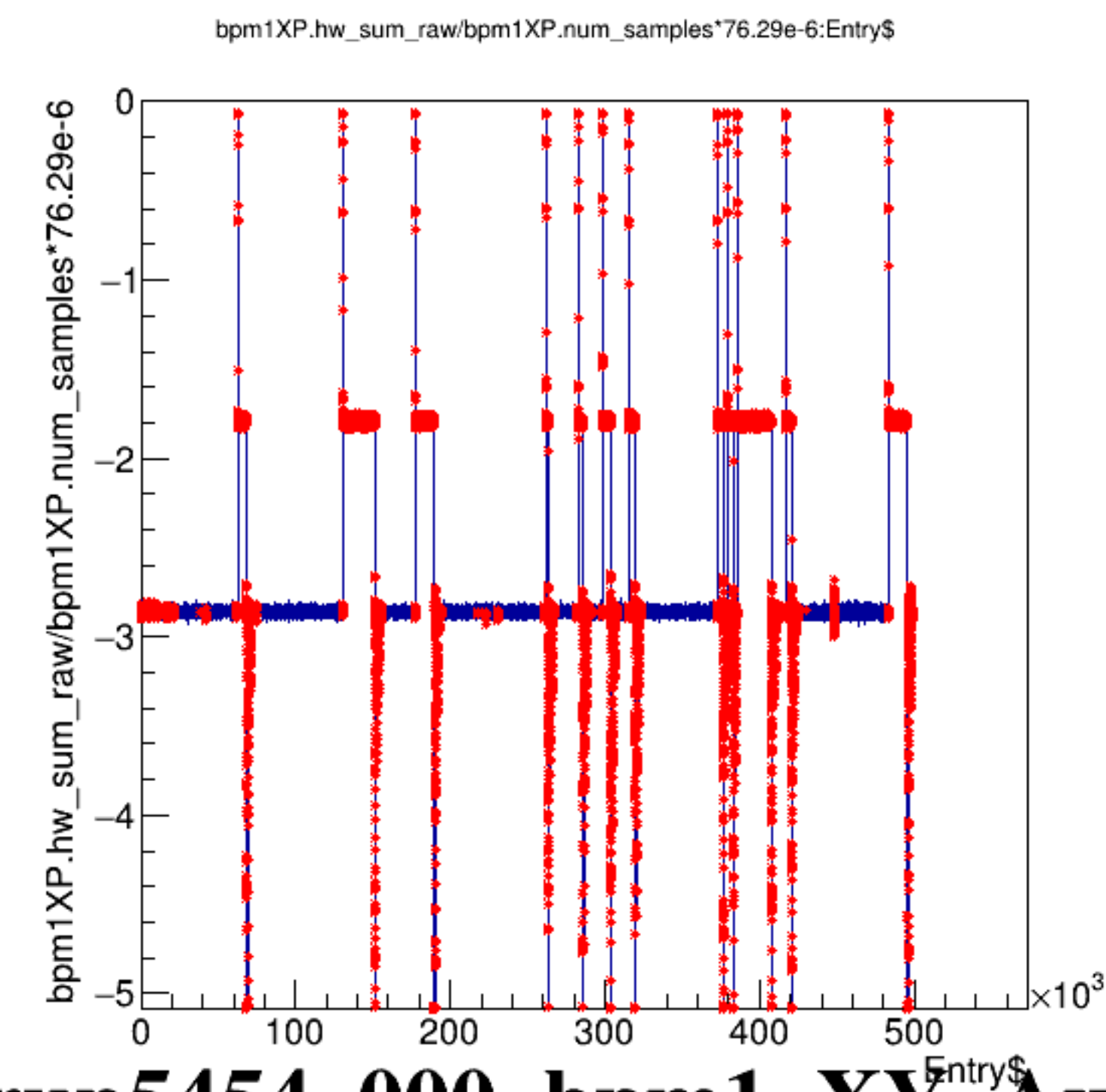
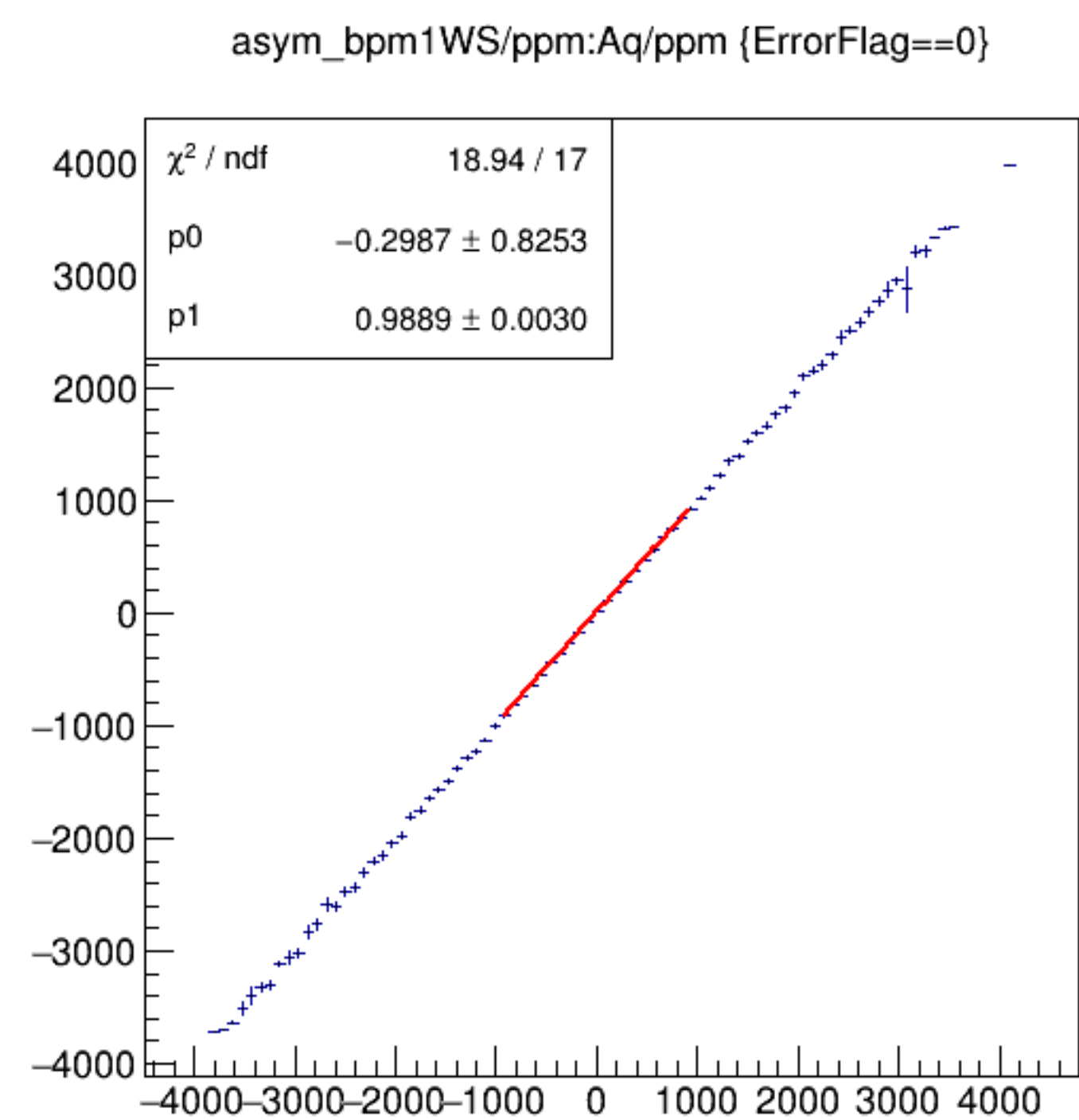
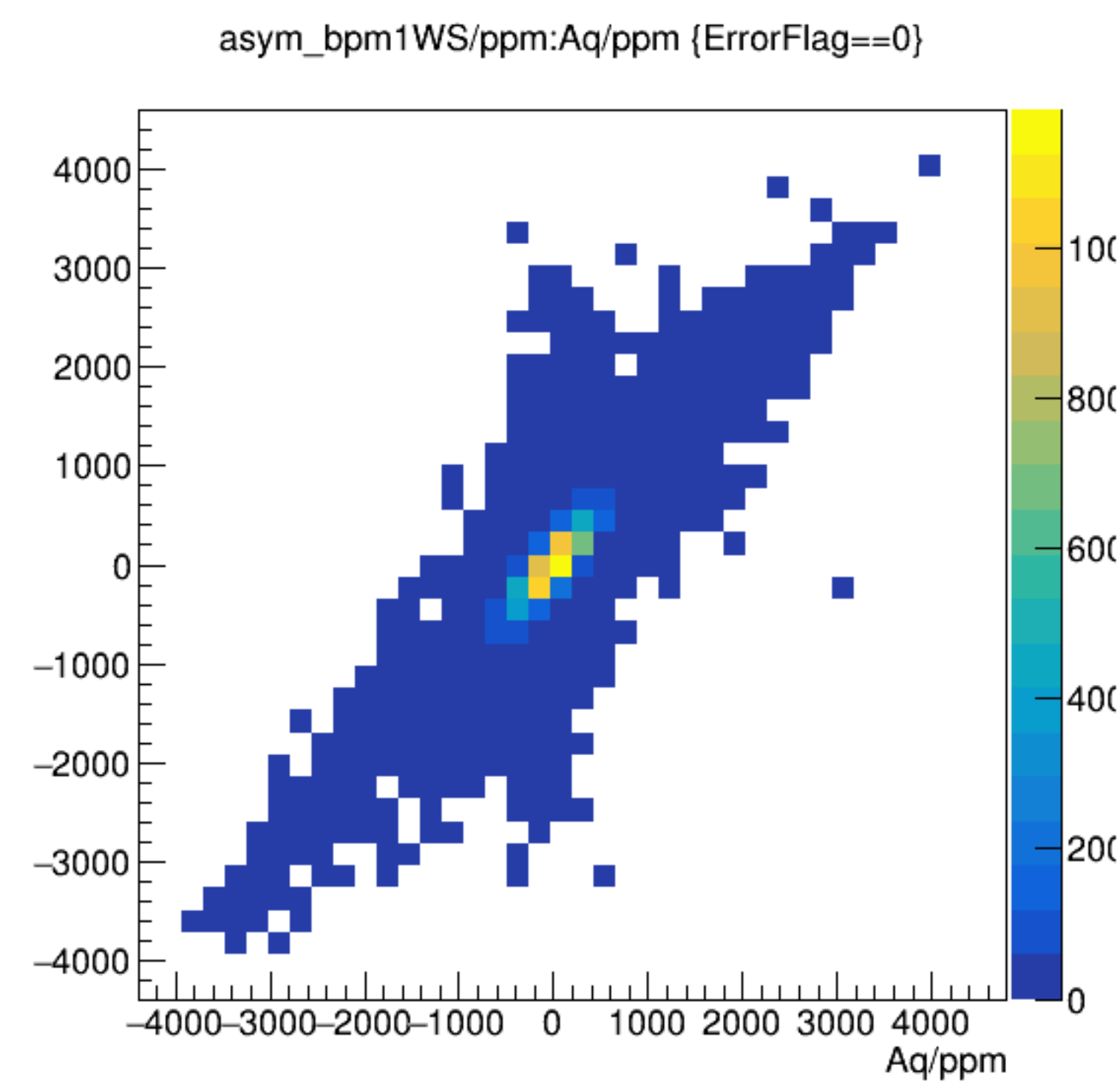
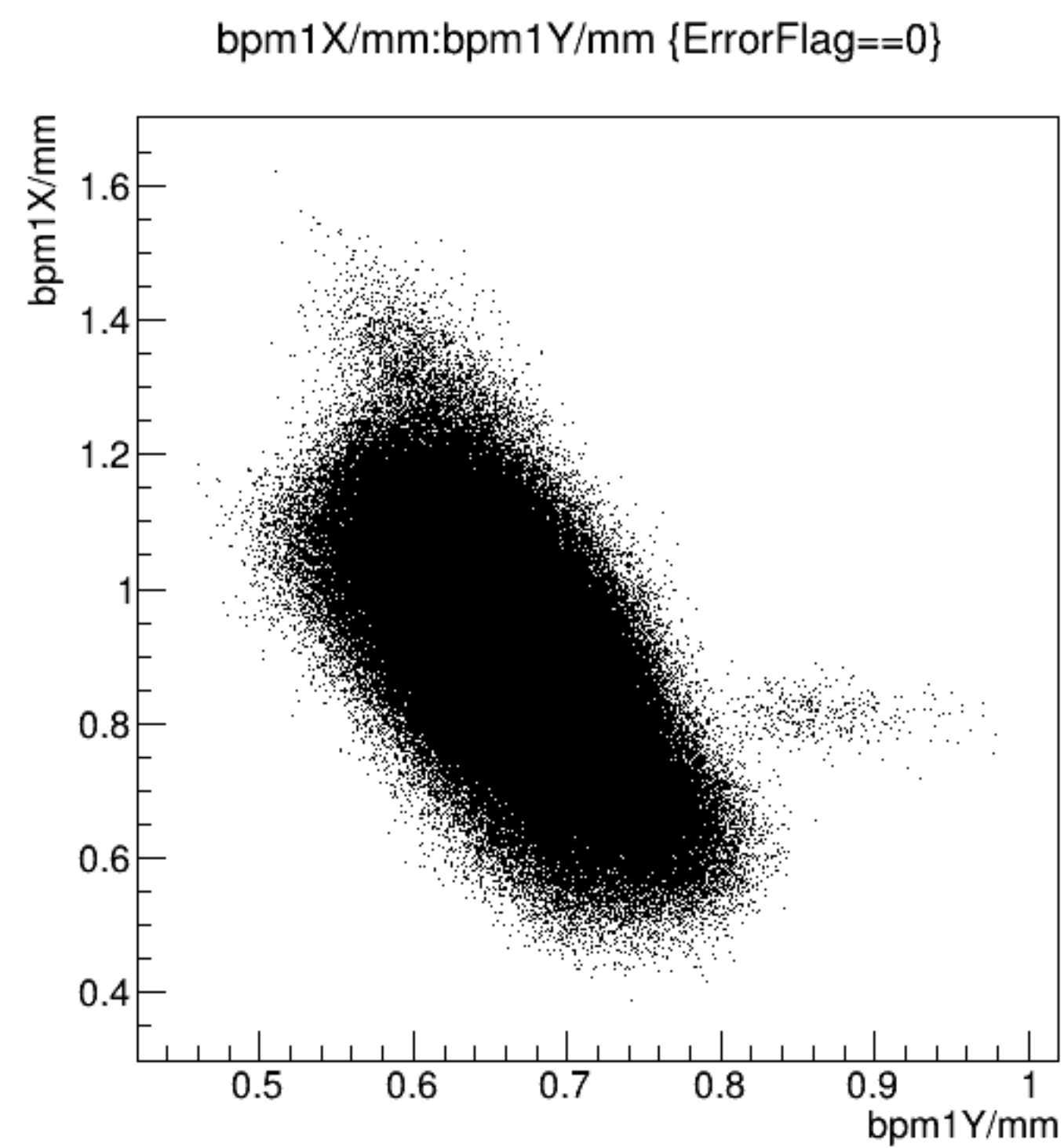
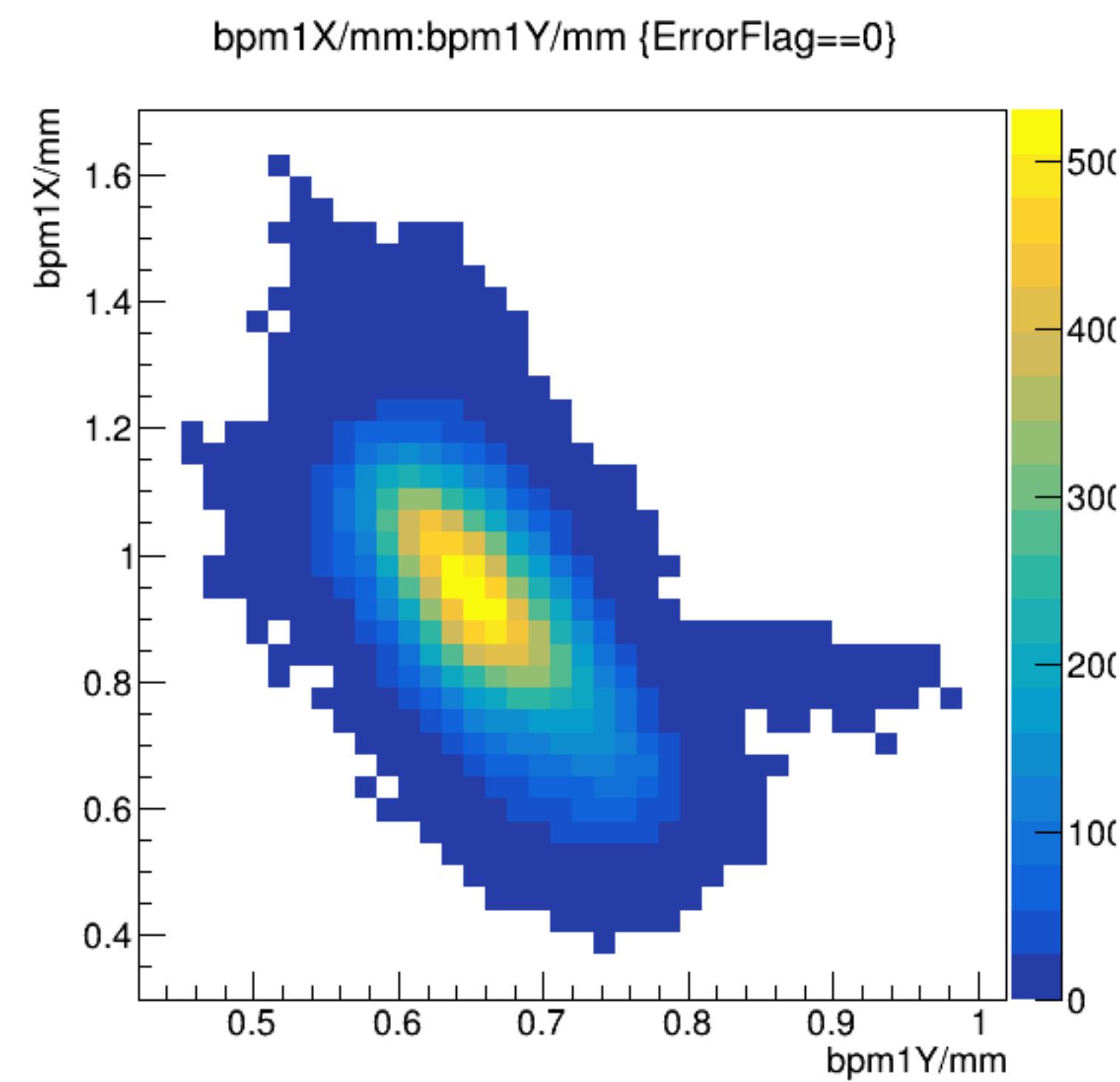


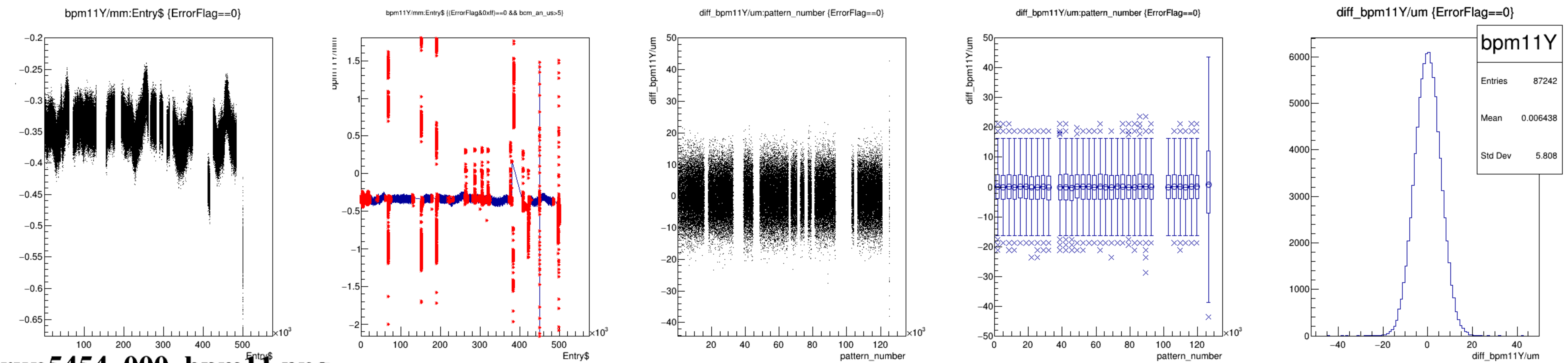
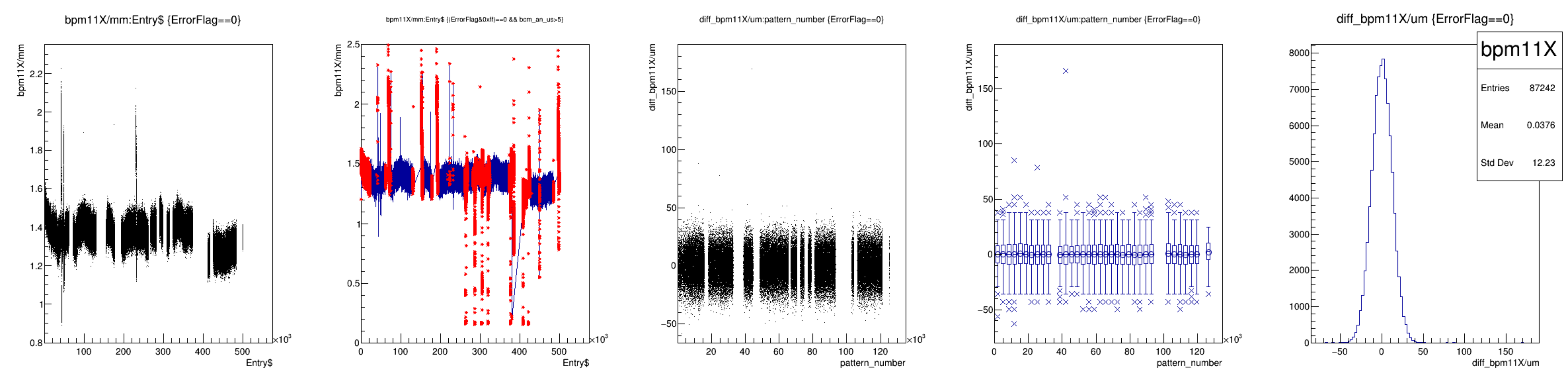




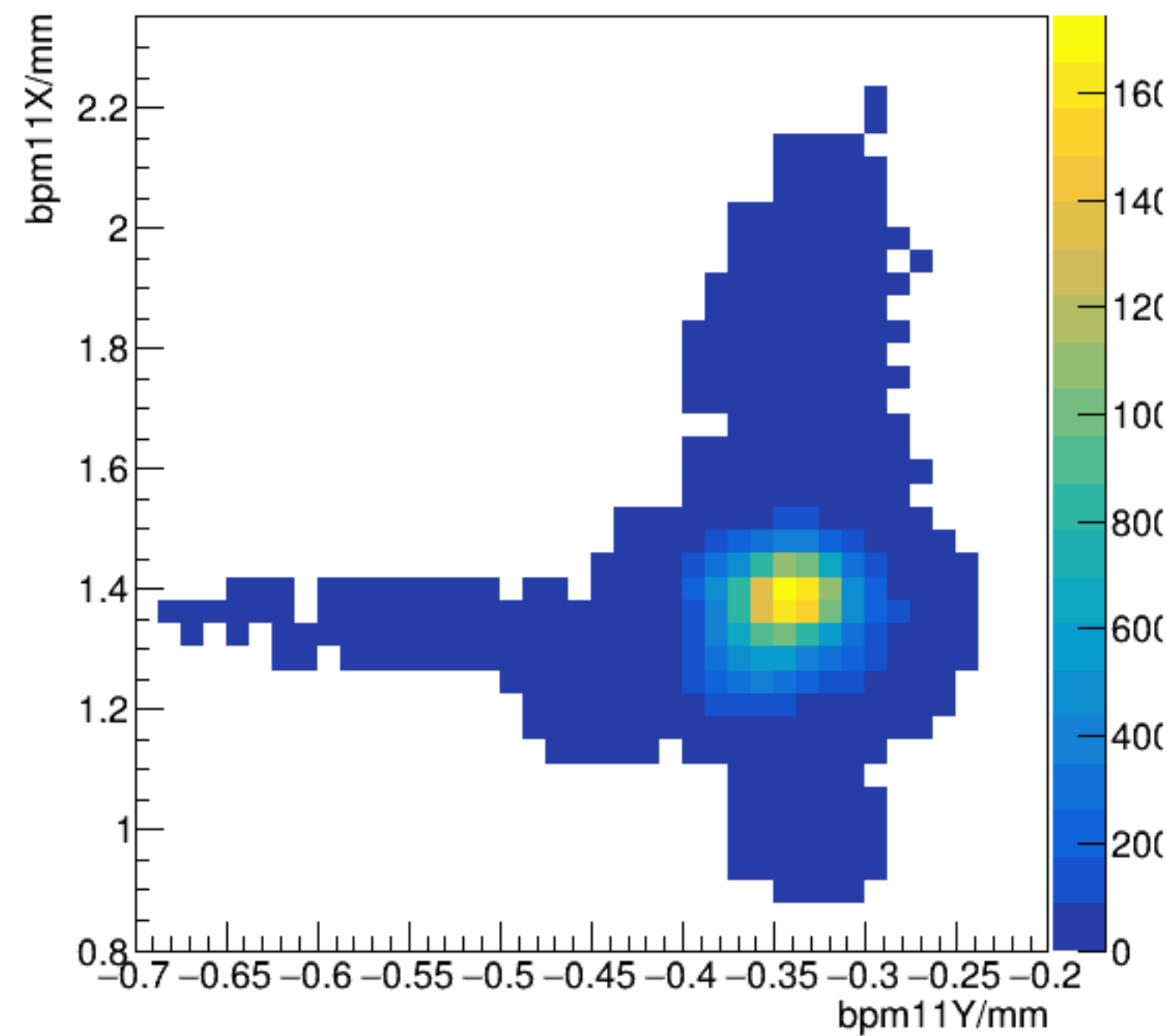


run5454_000_bpm1.png

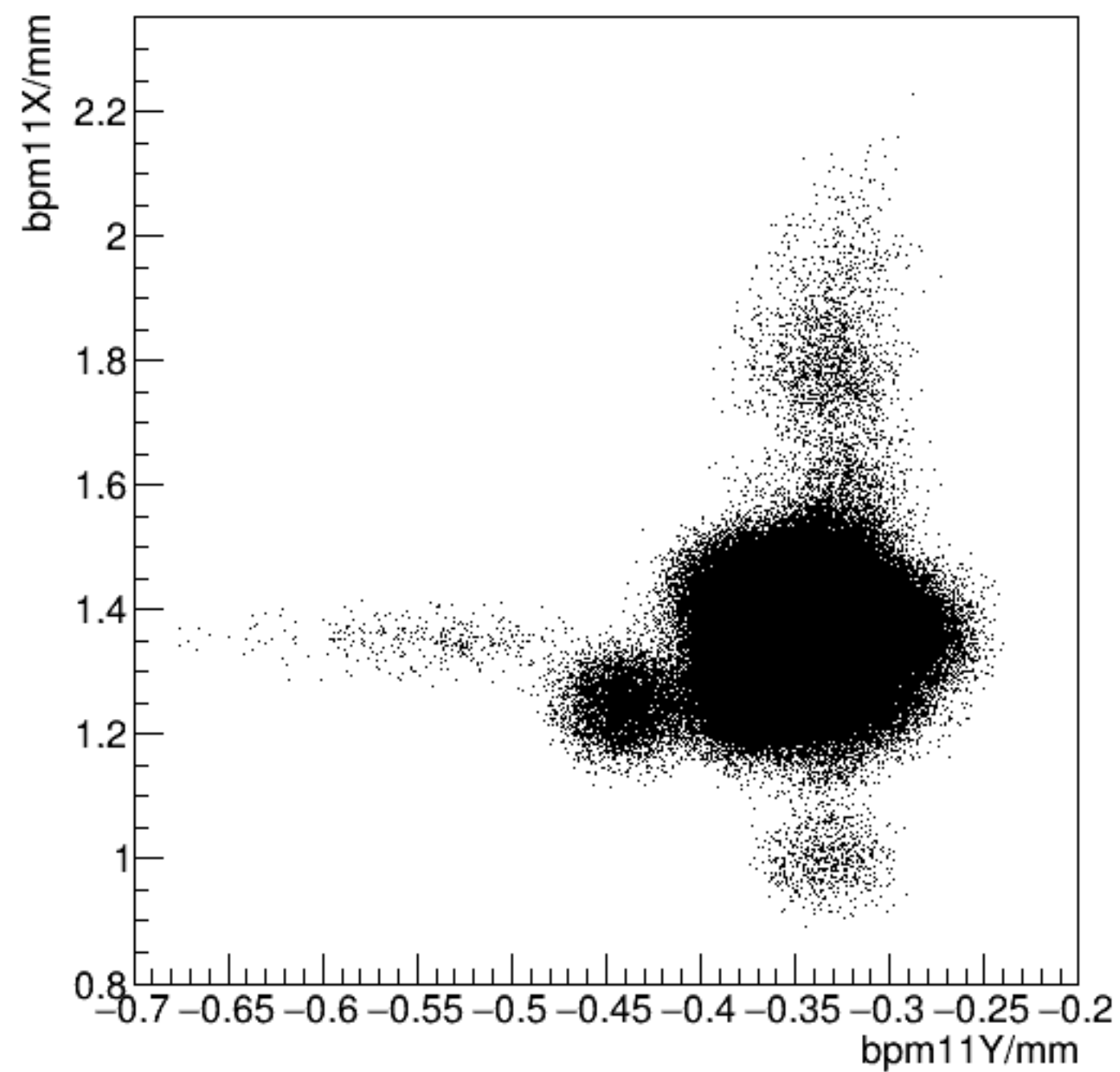




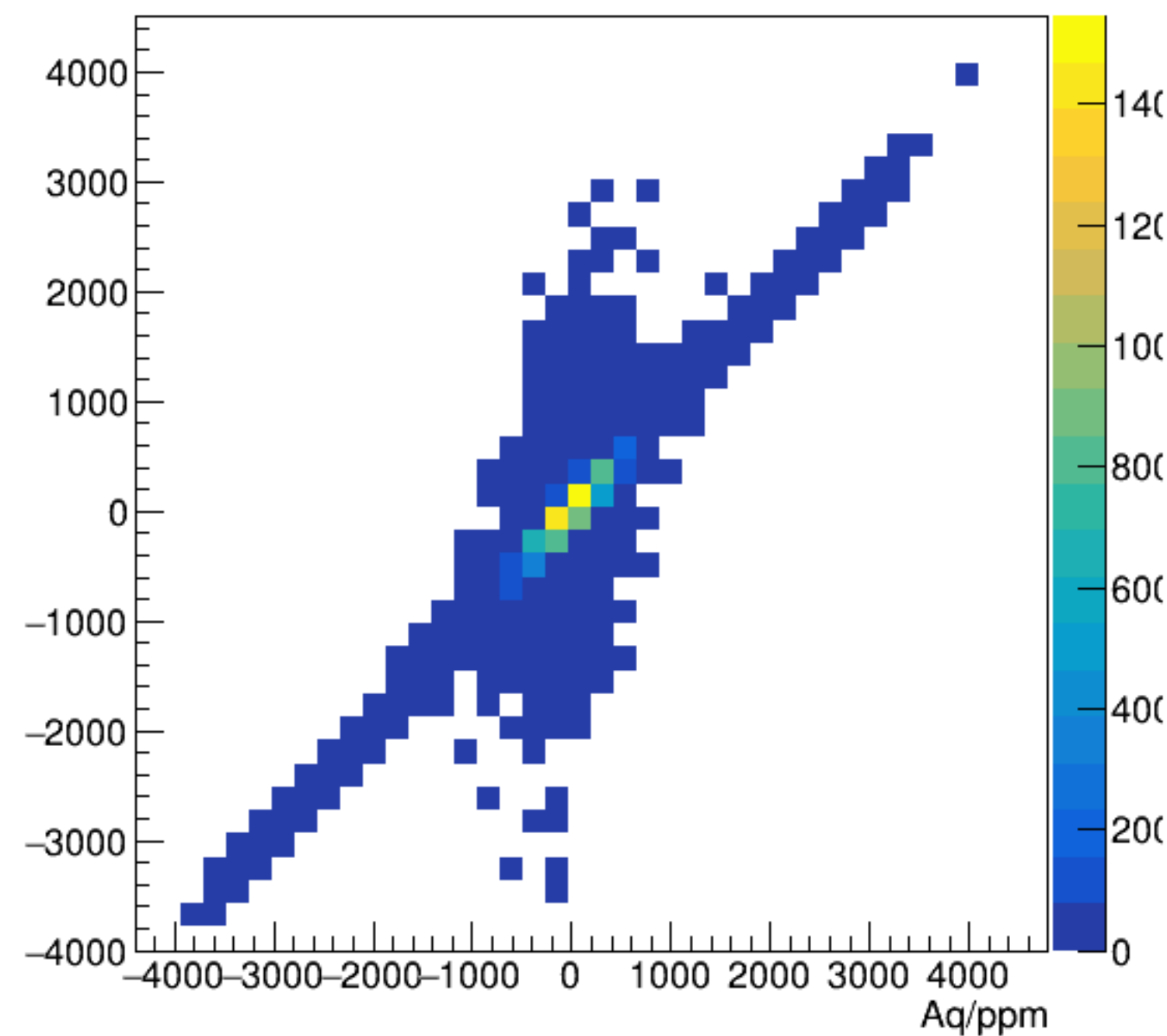
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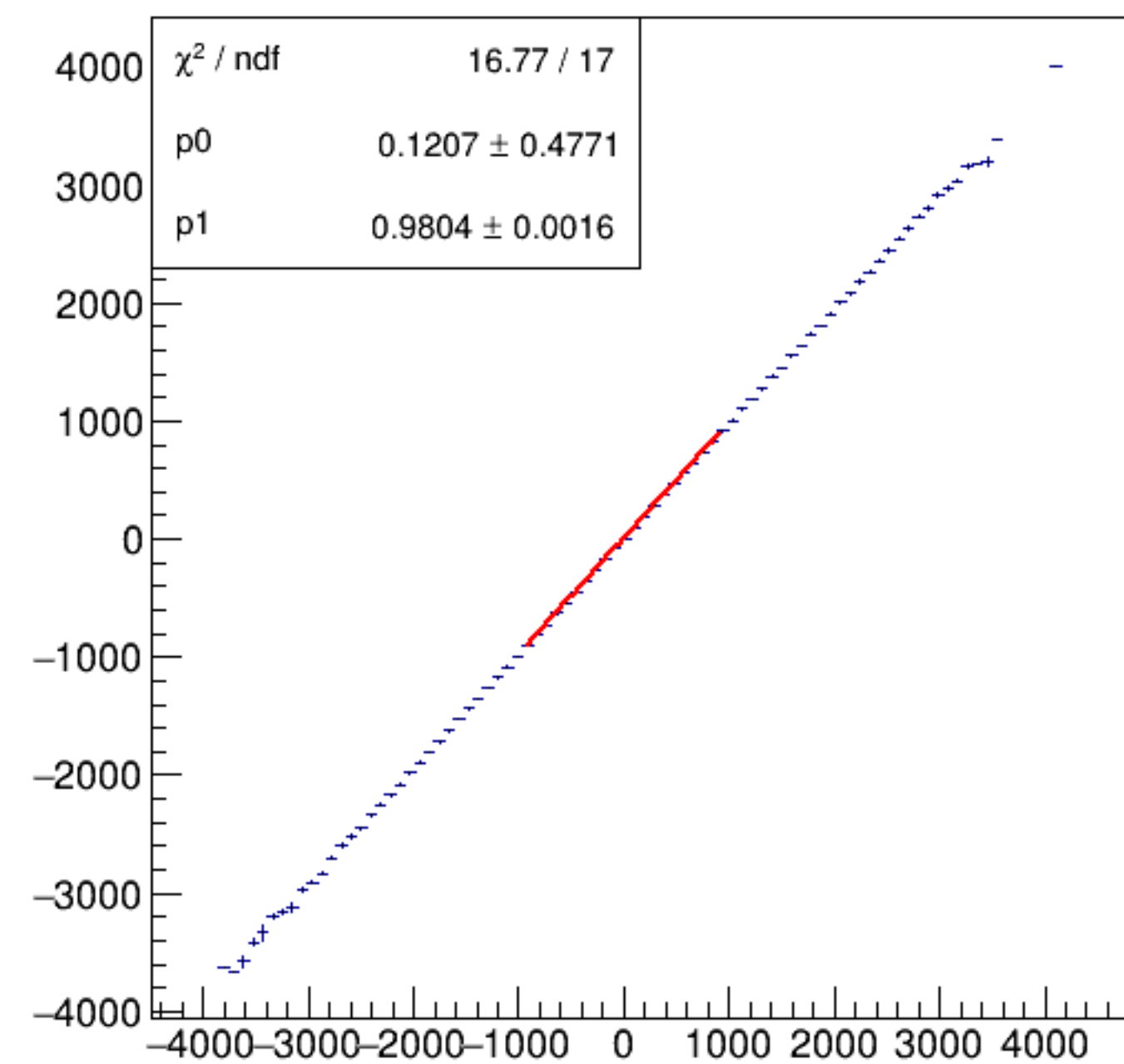
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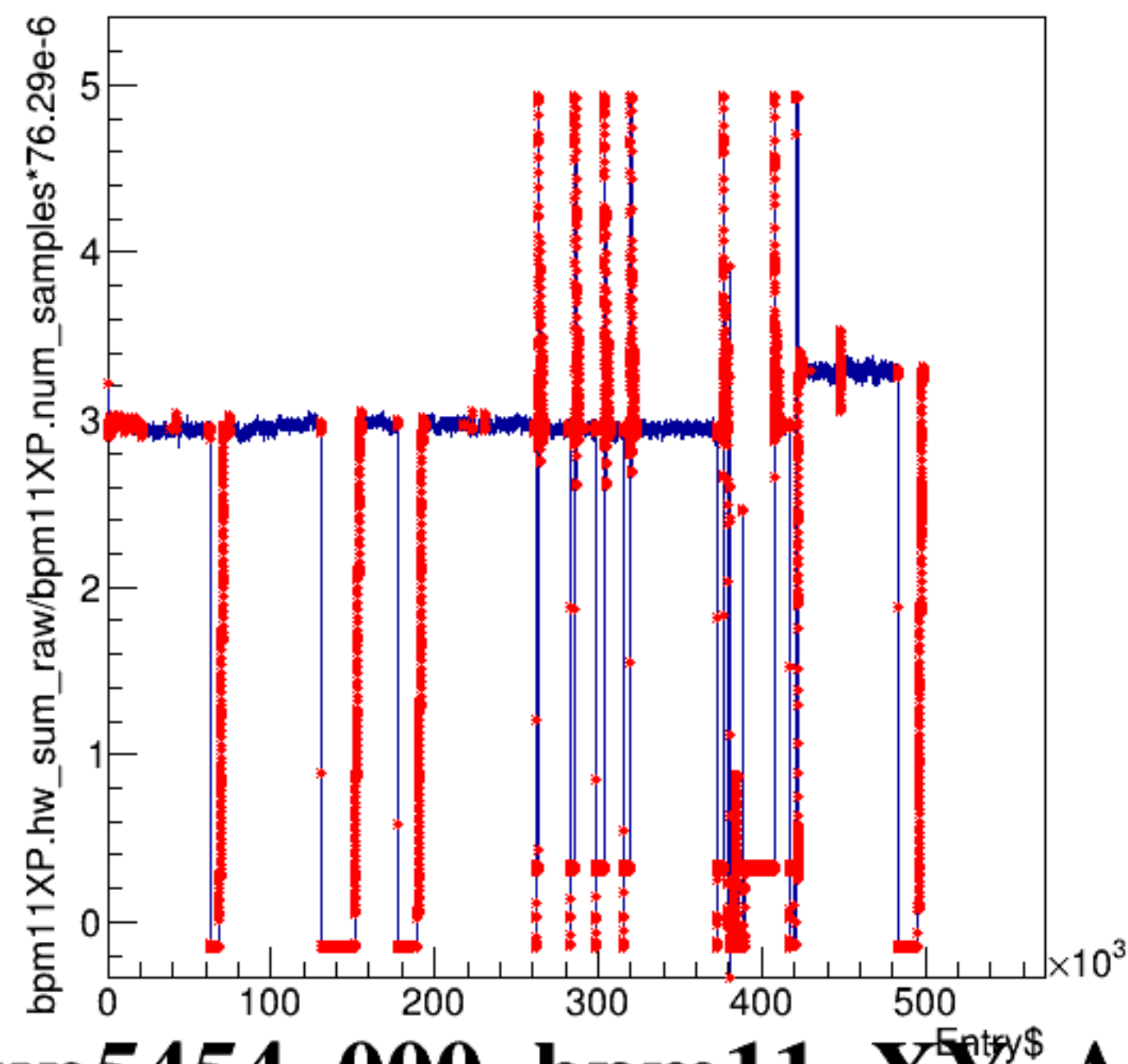
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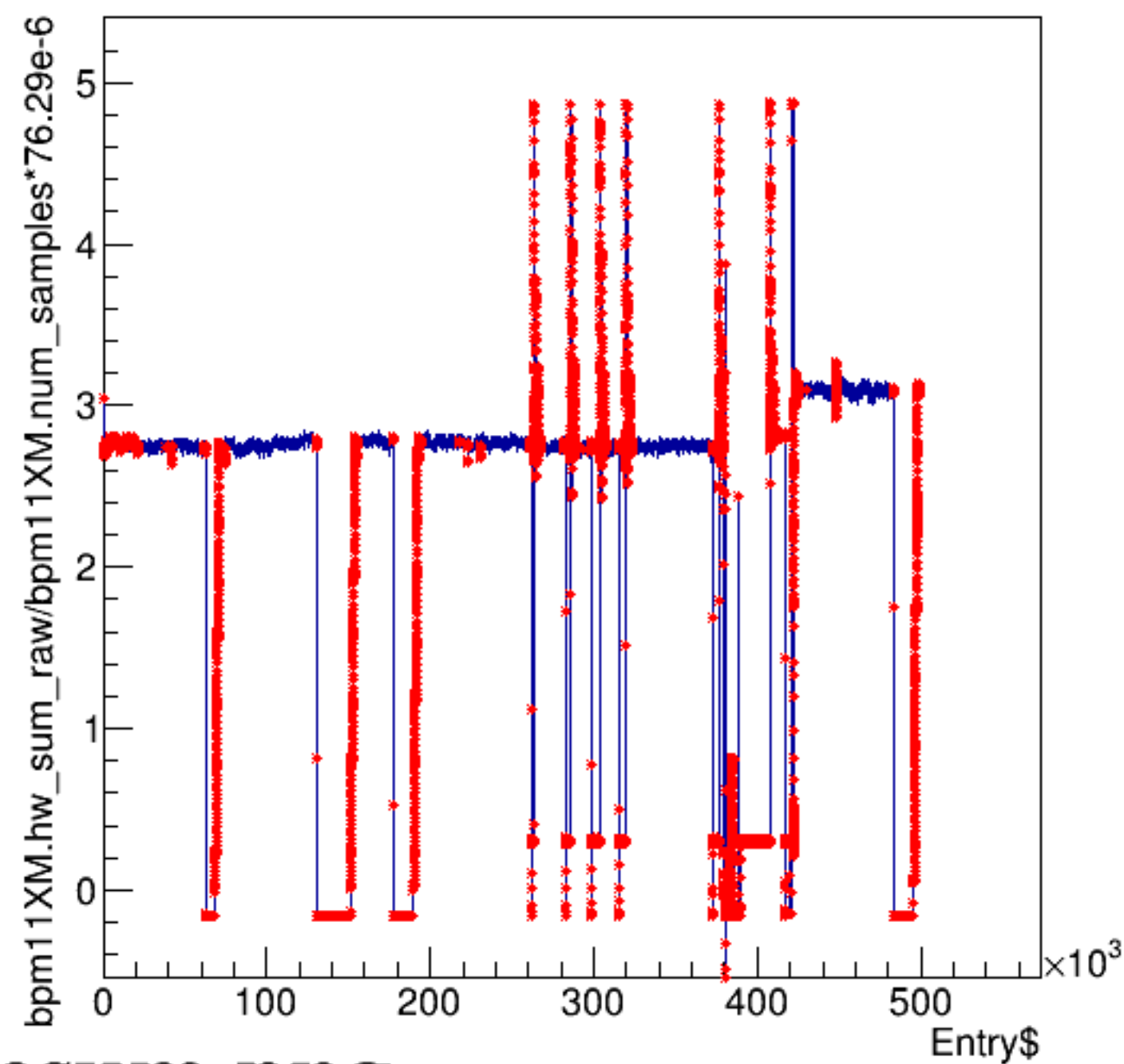
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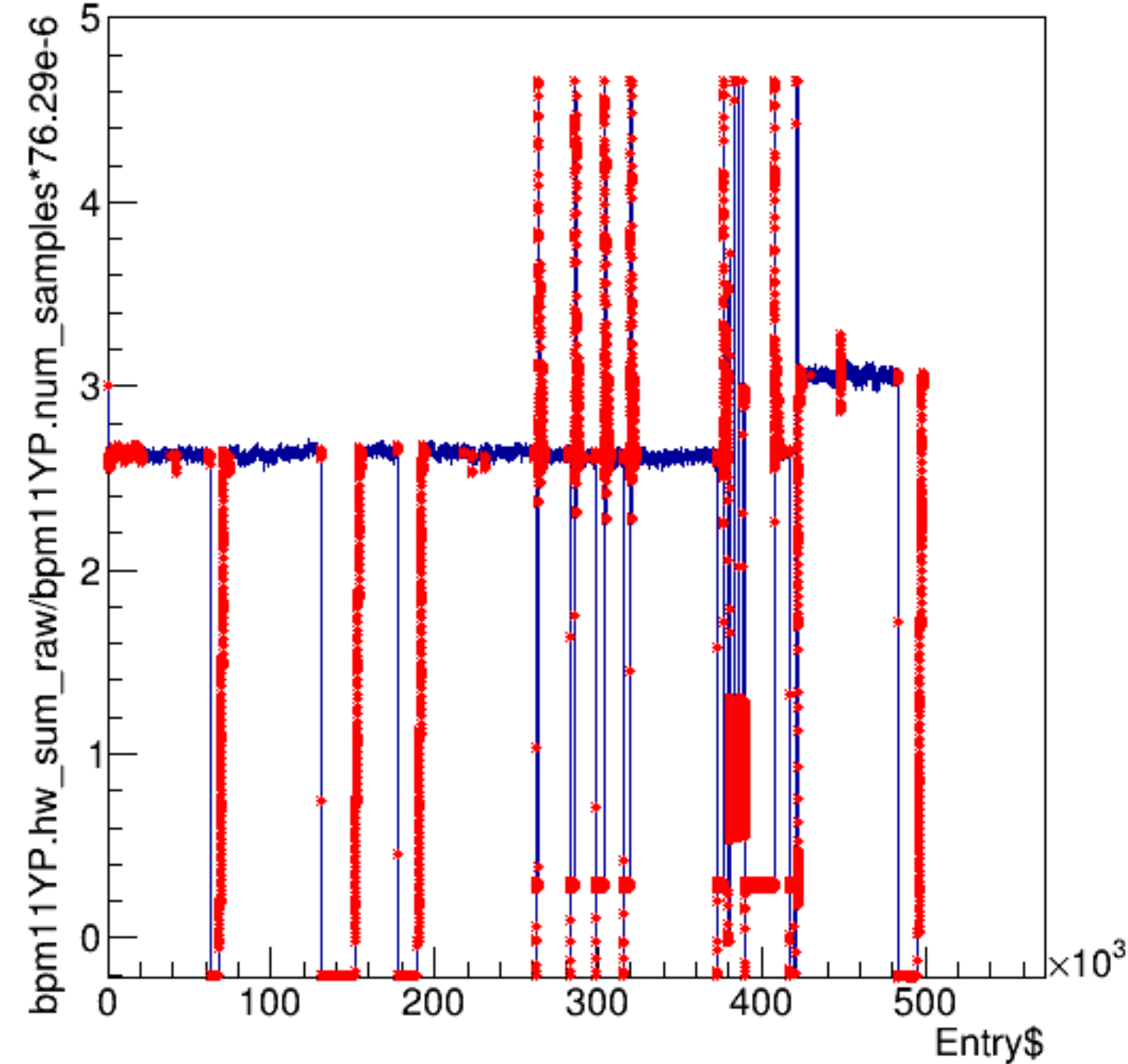
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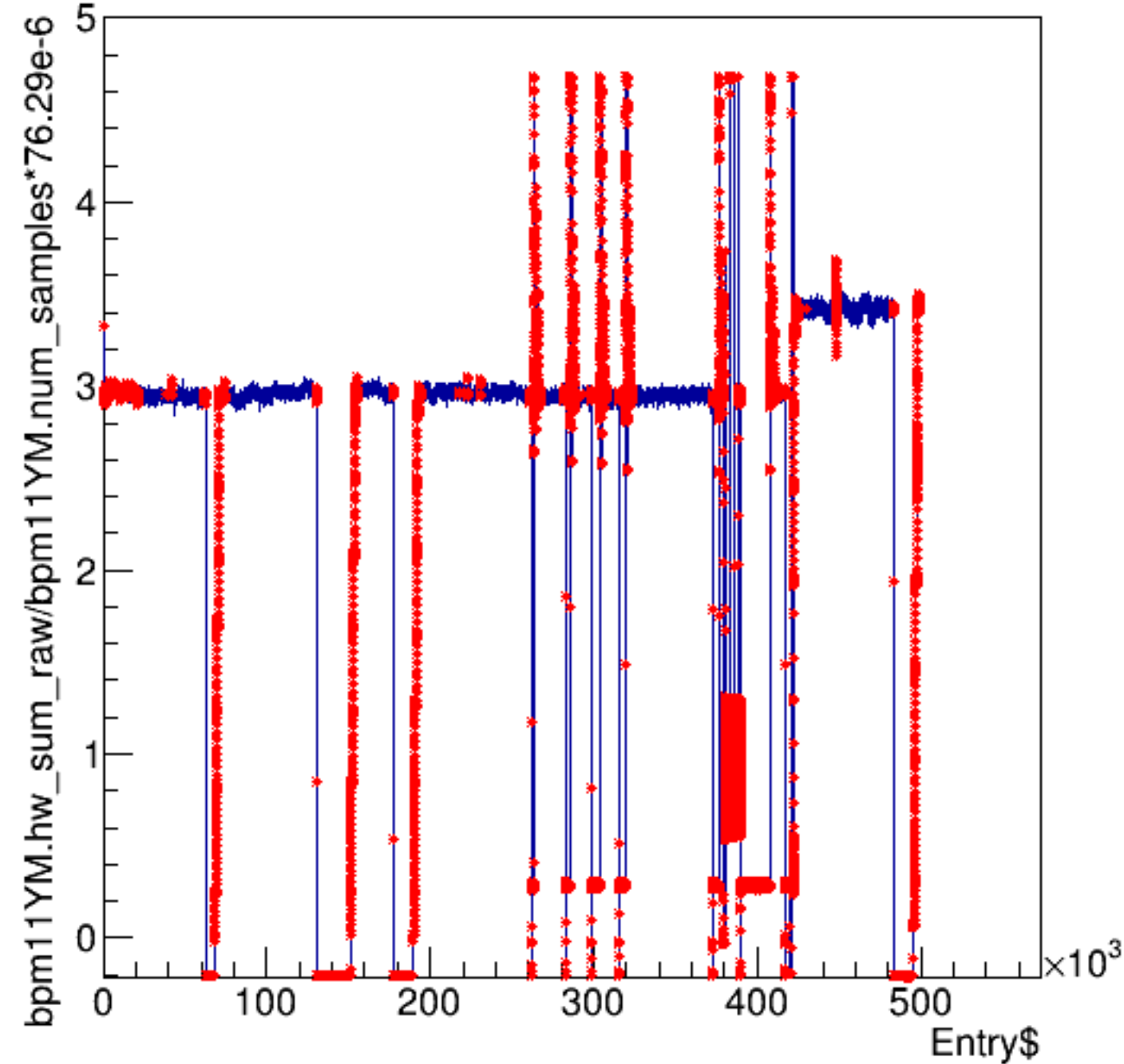
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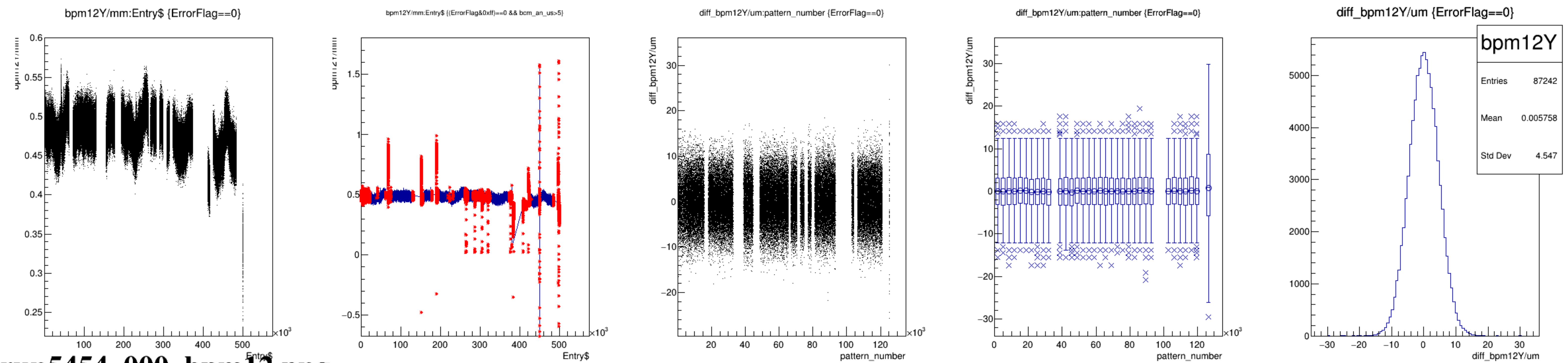
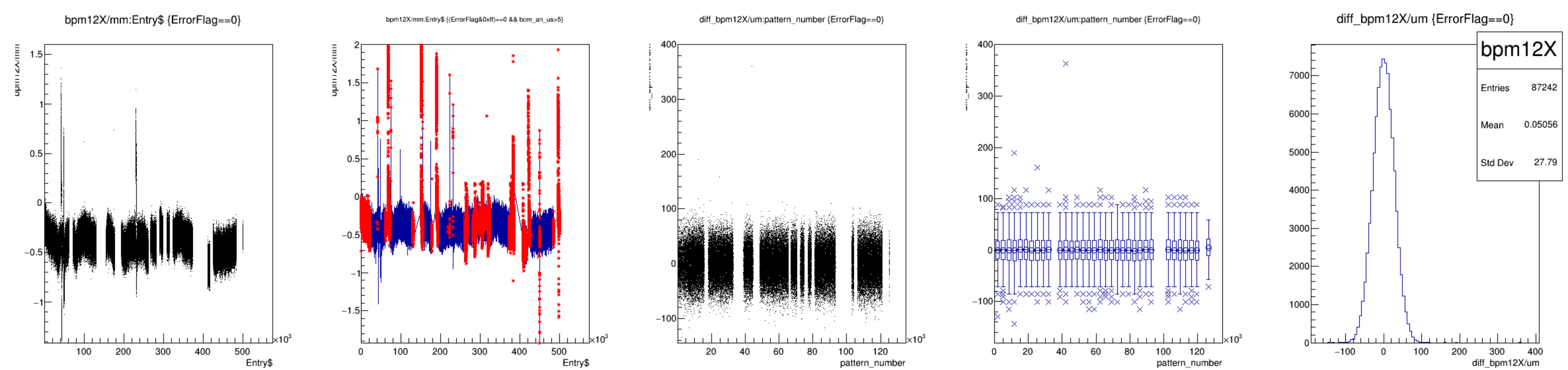


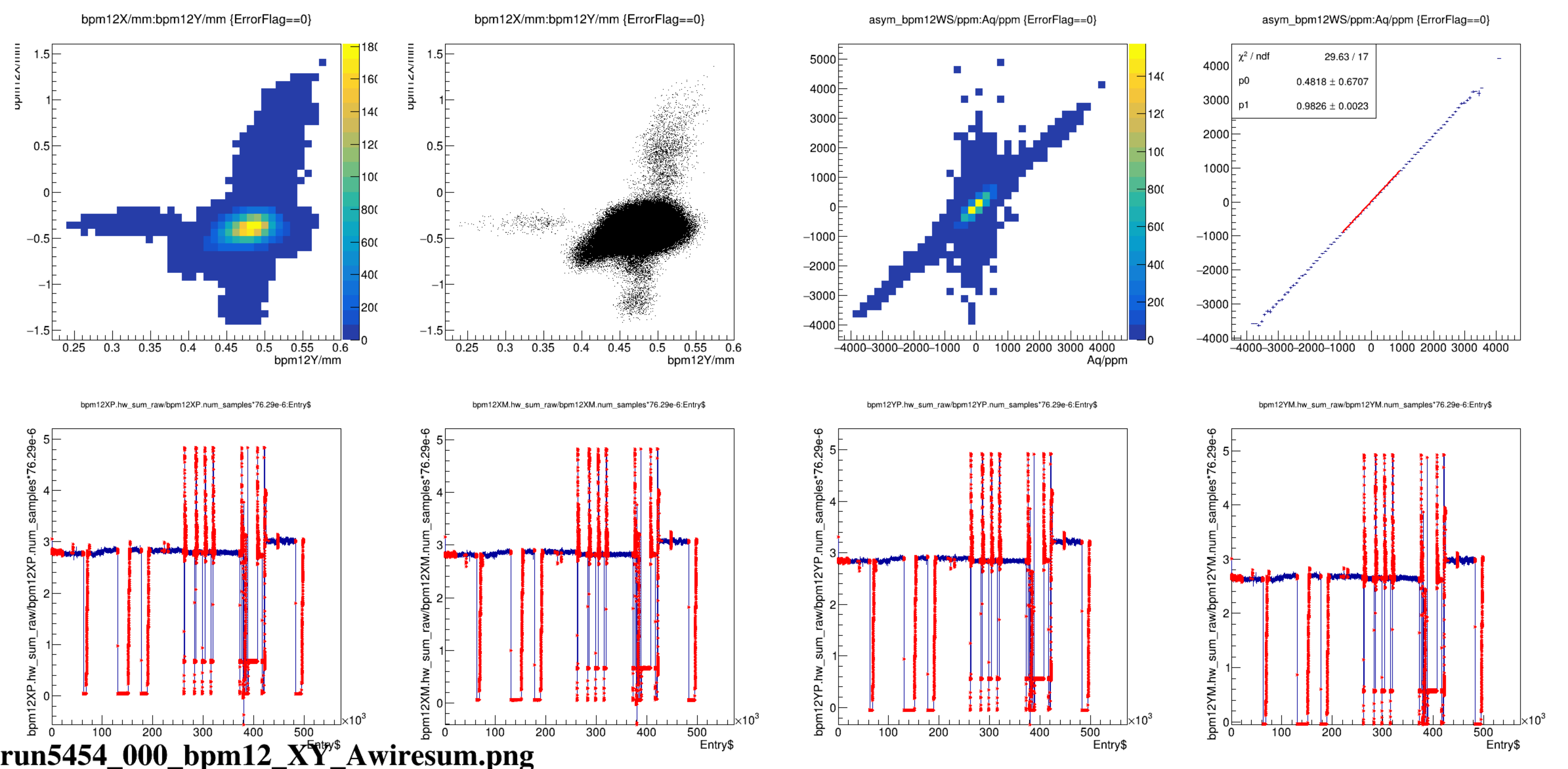
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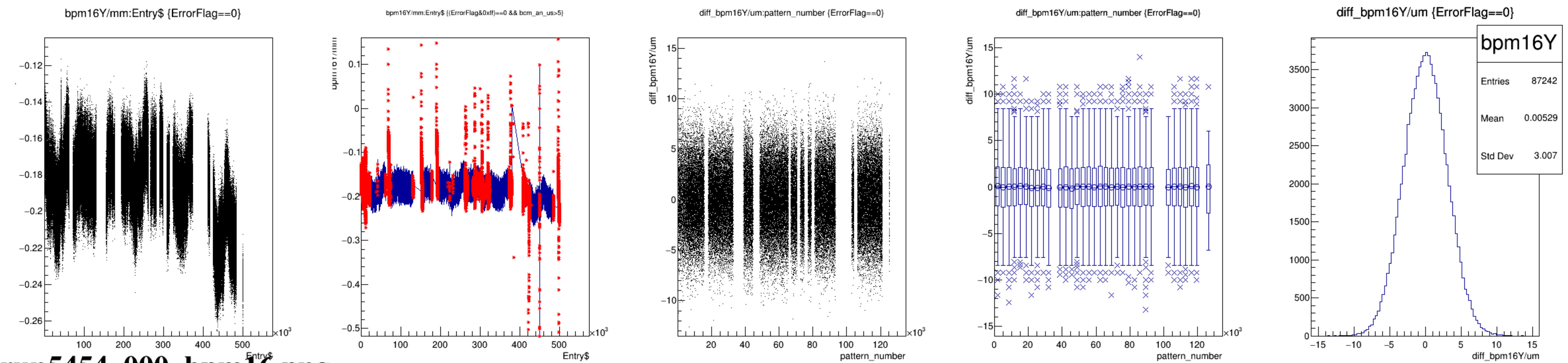
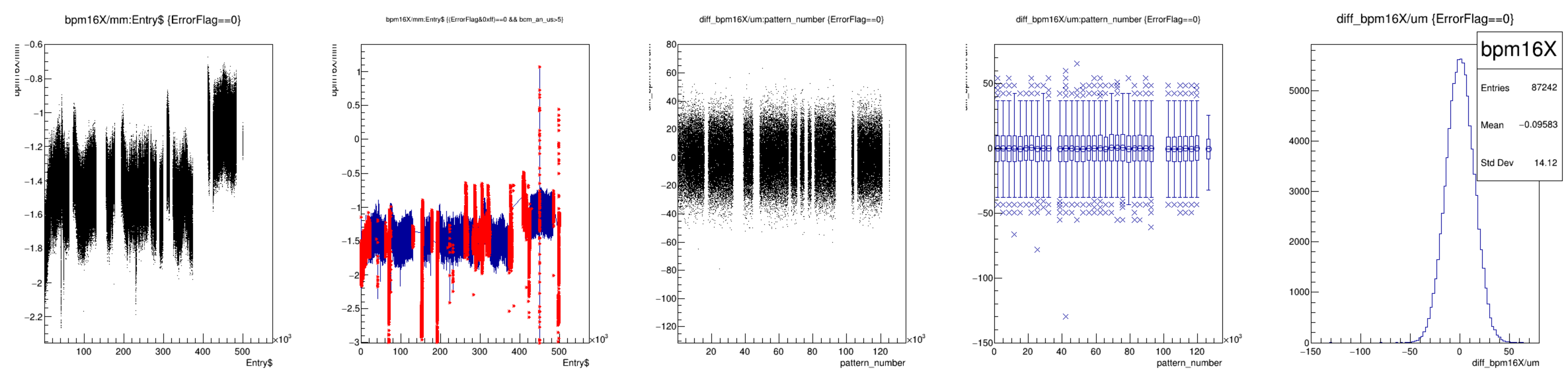


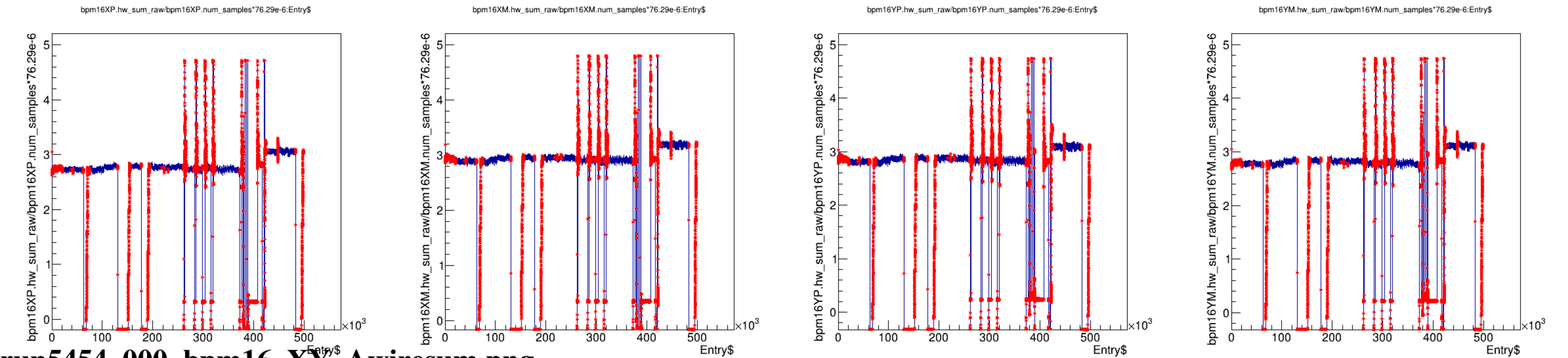
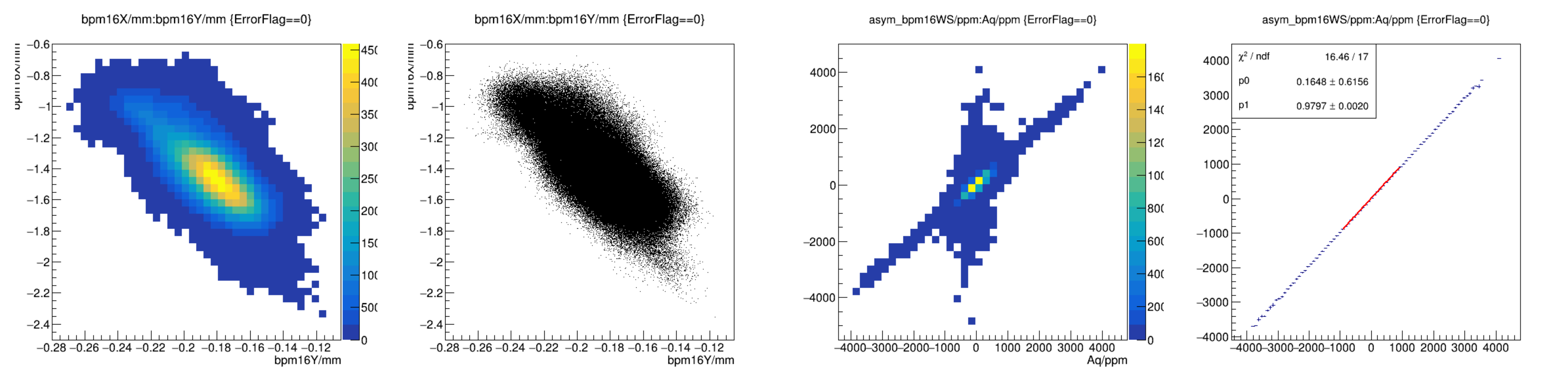
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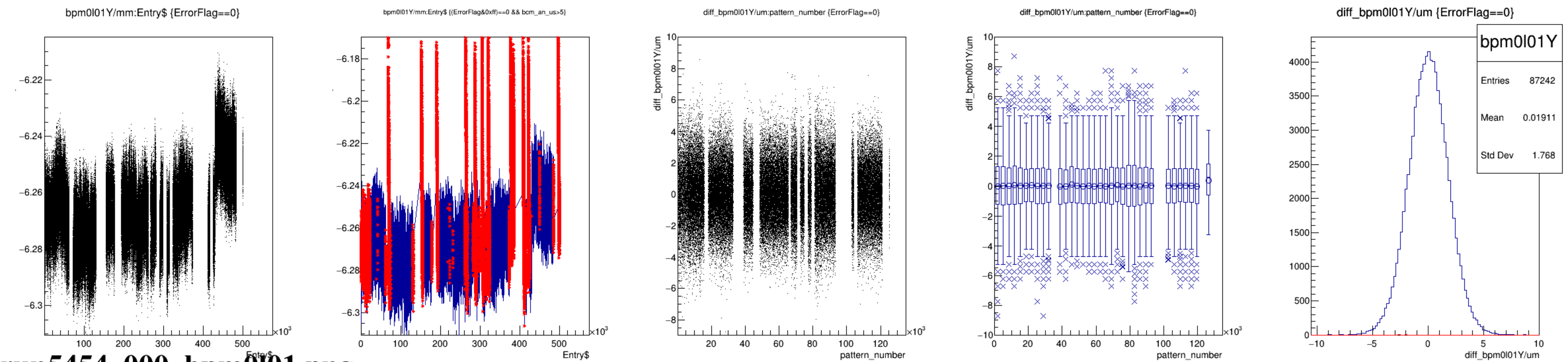
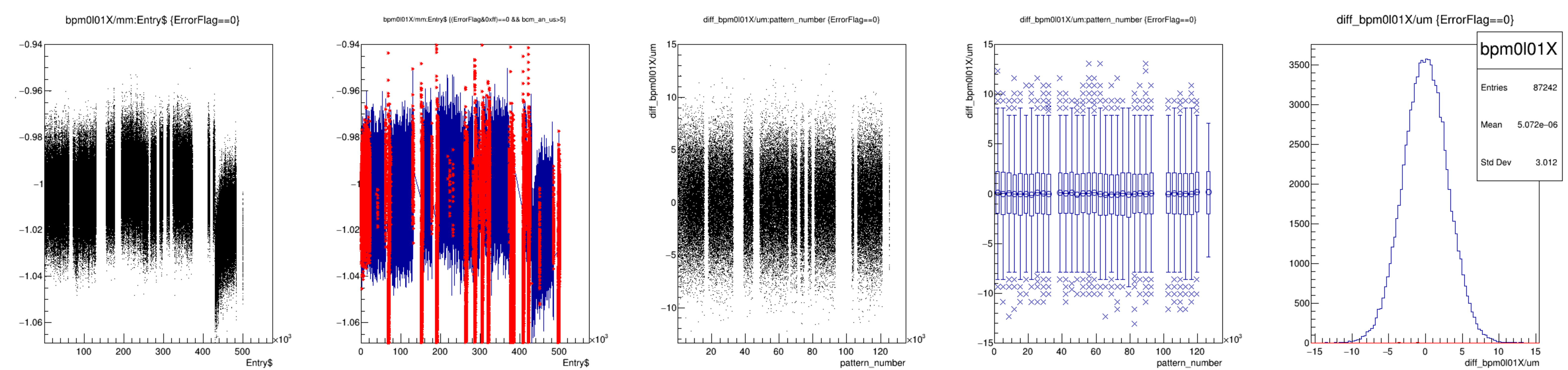


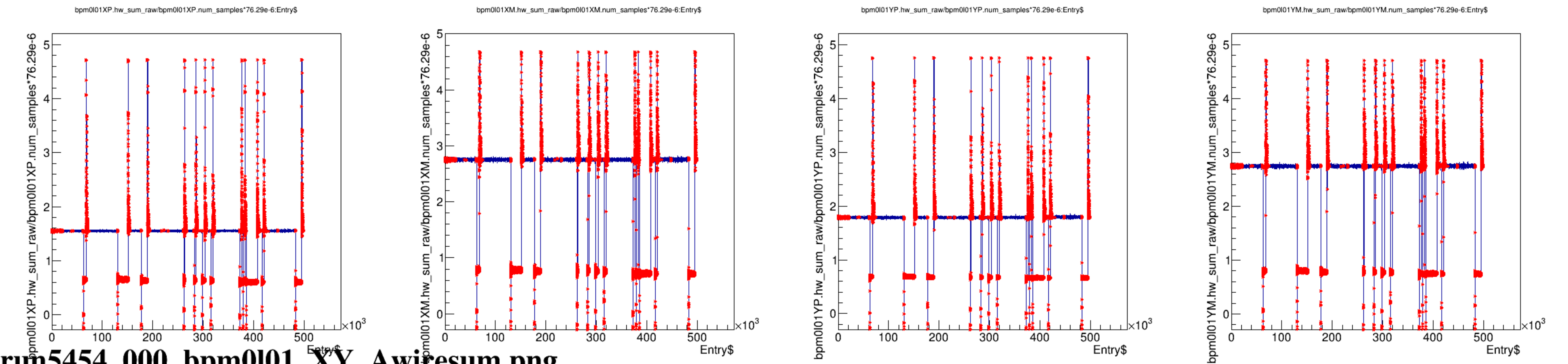
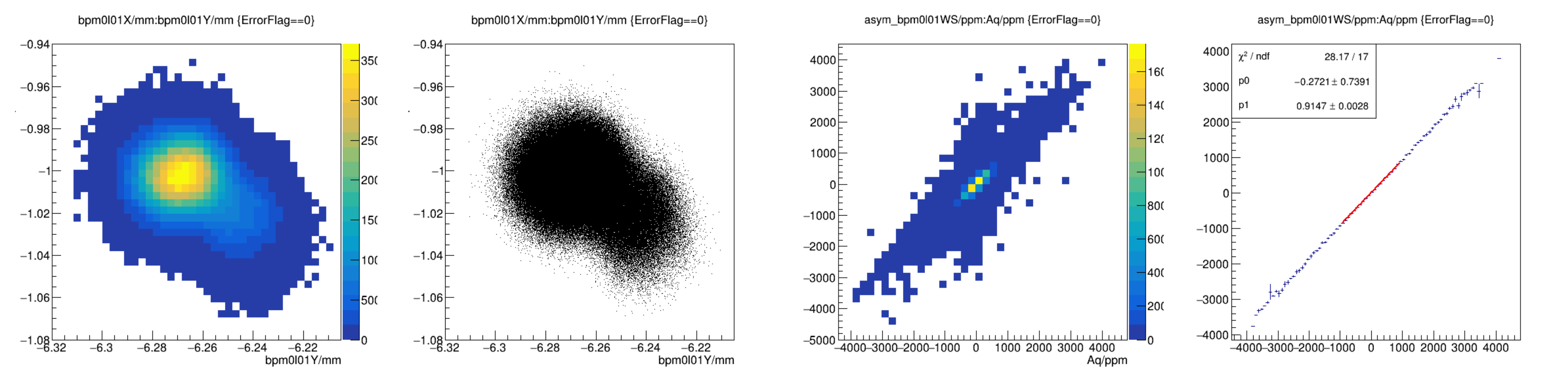


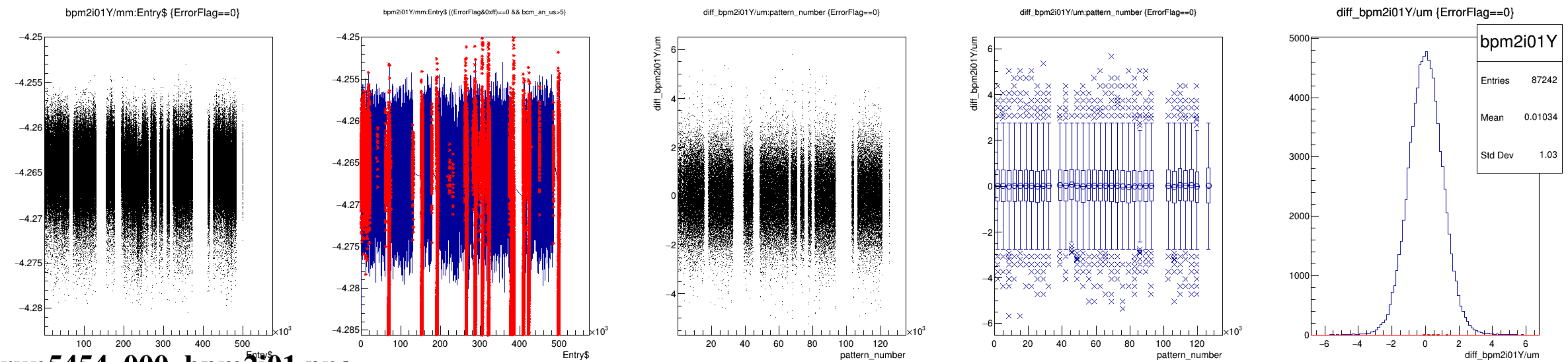
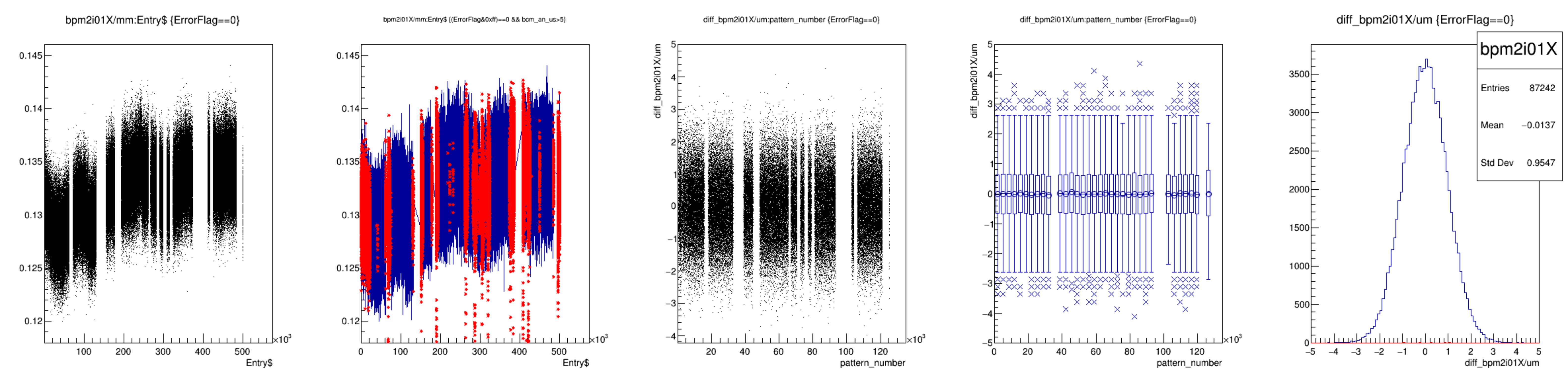




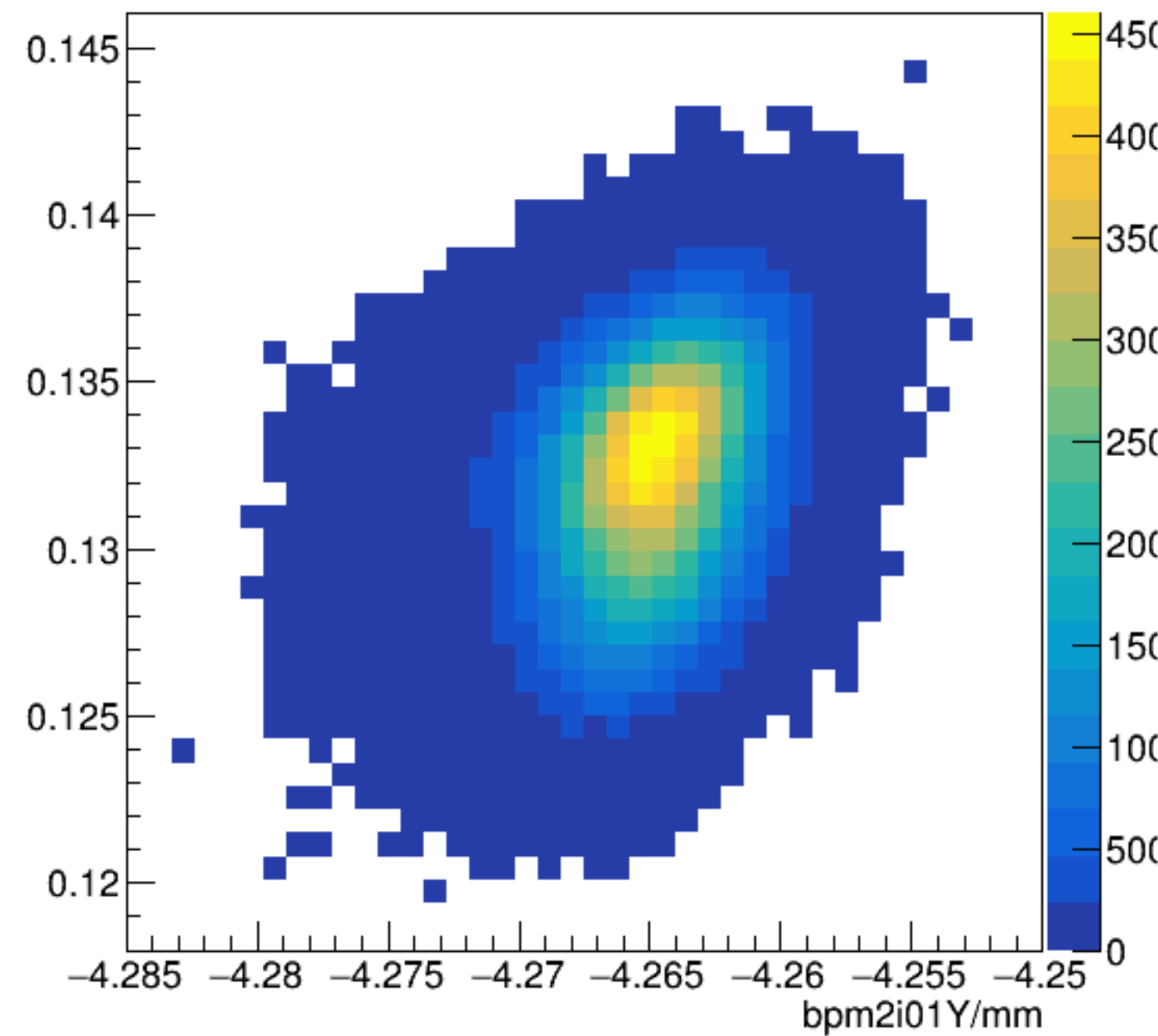




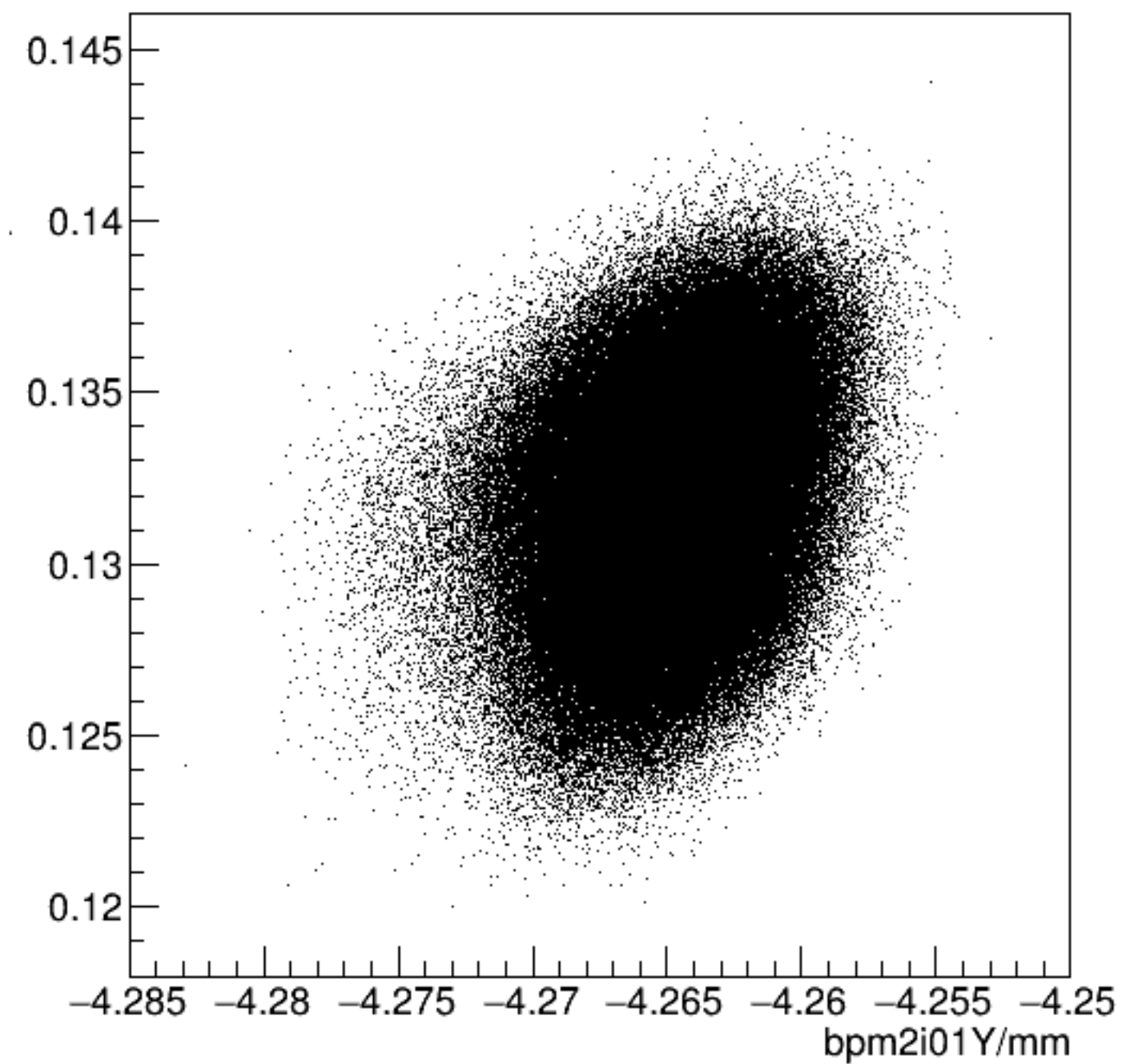




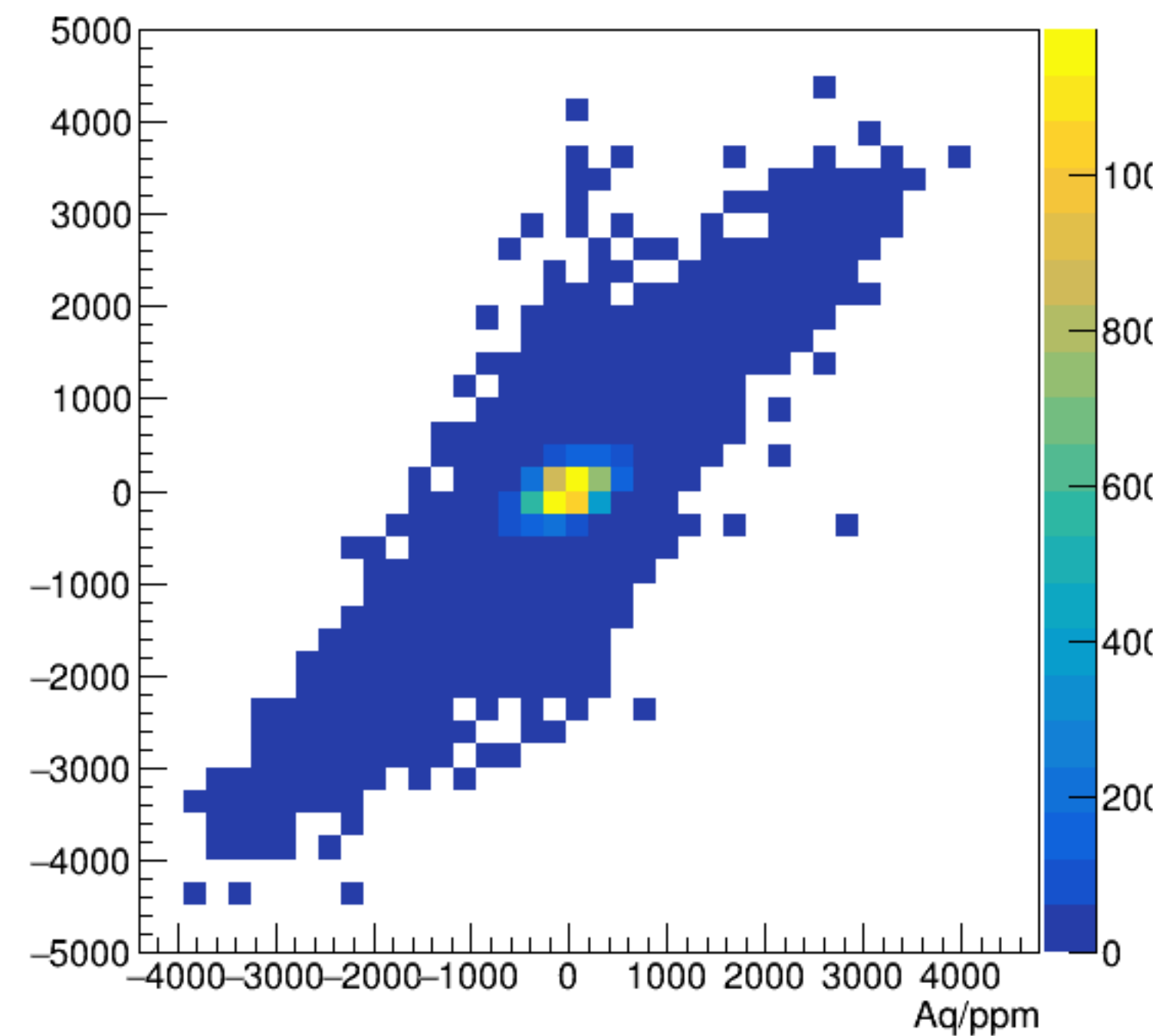
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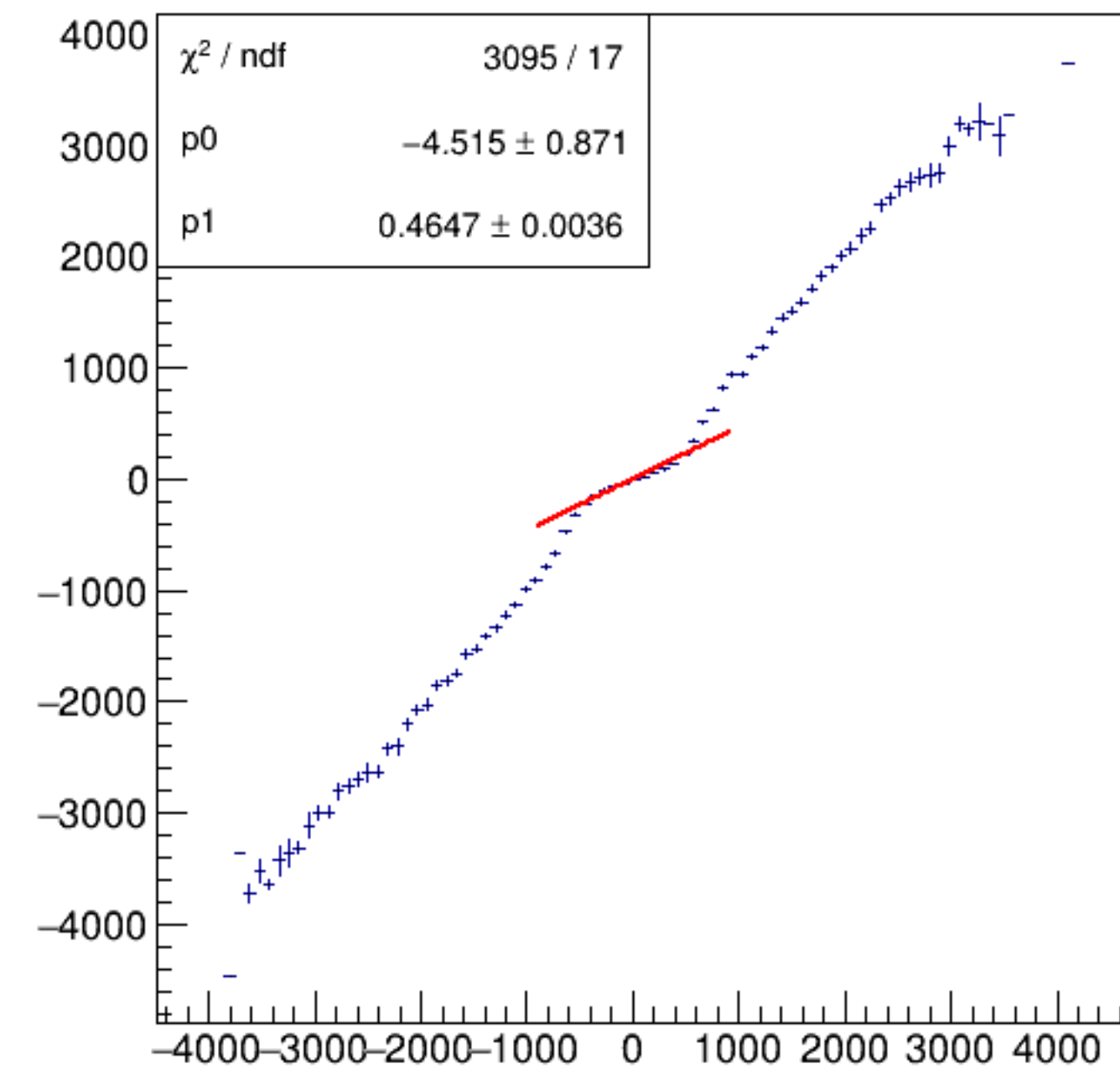
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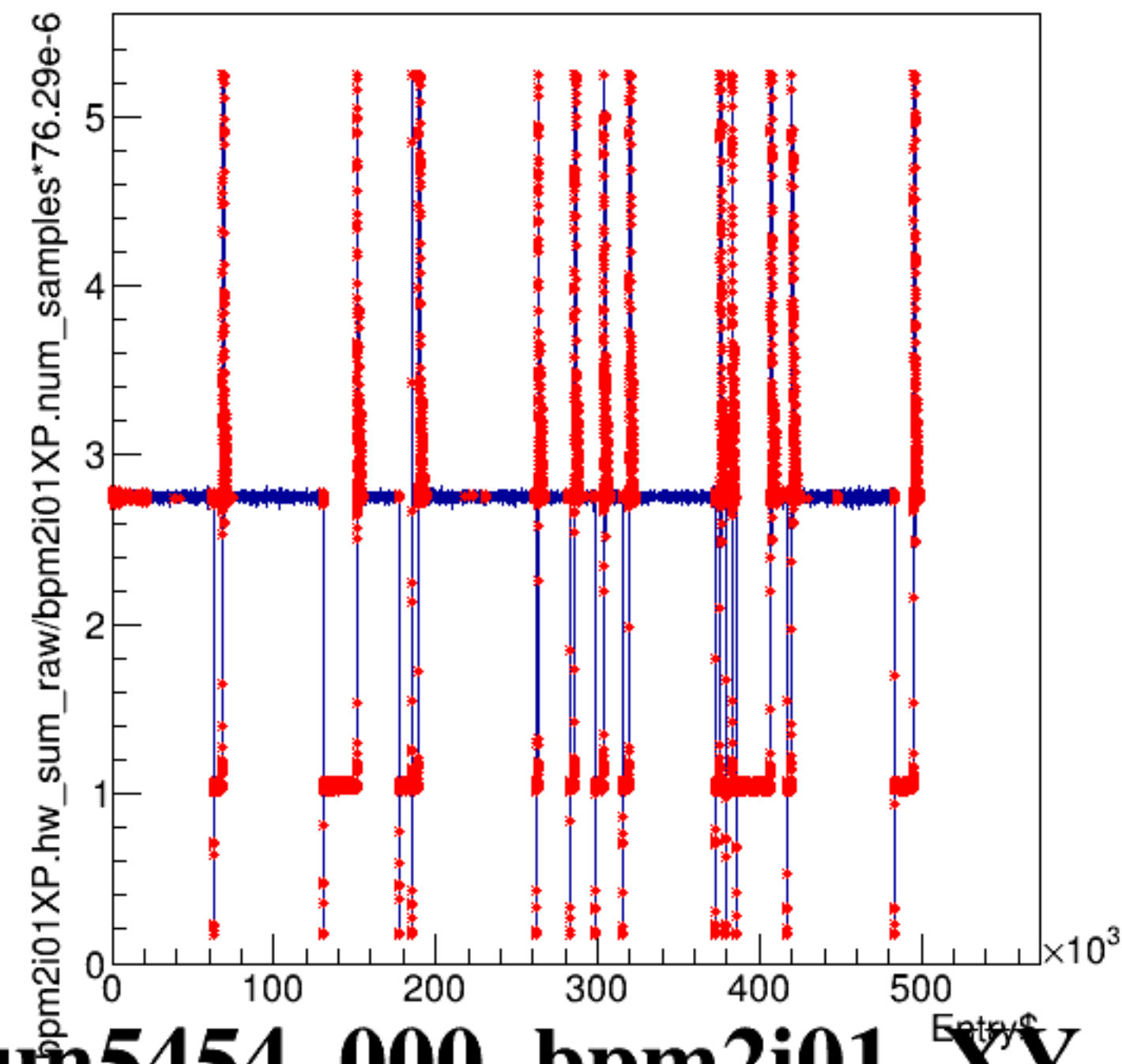
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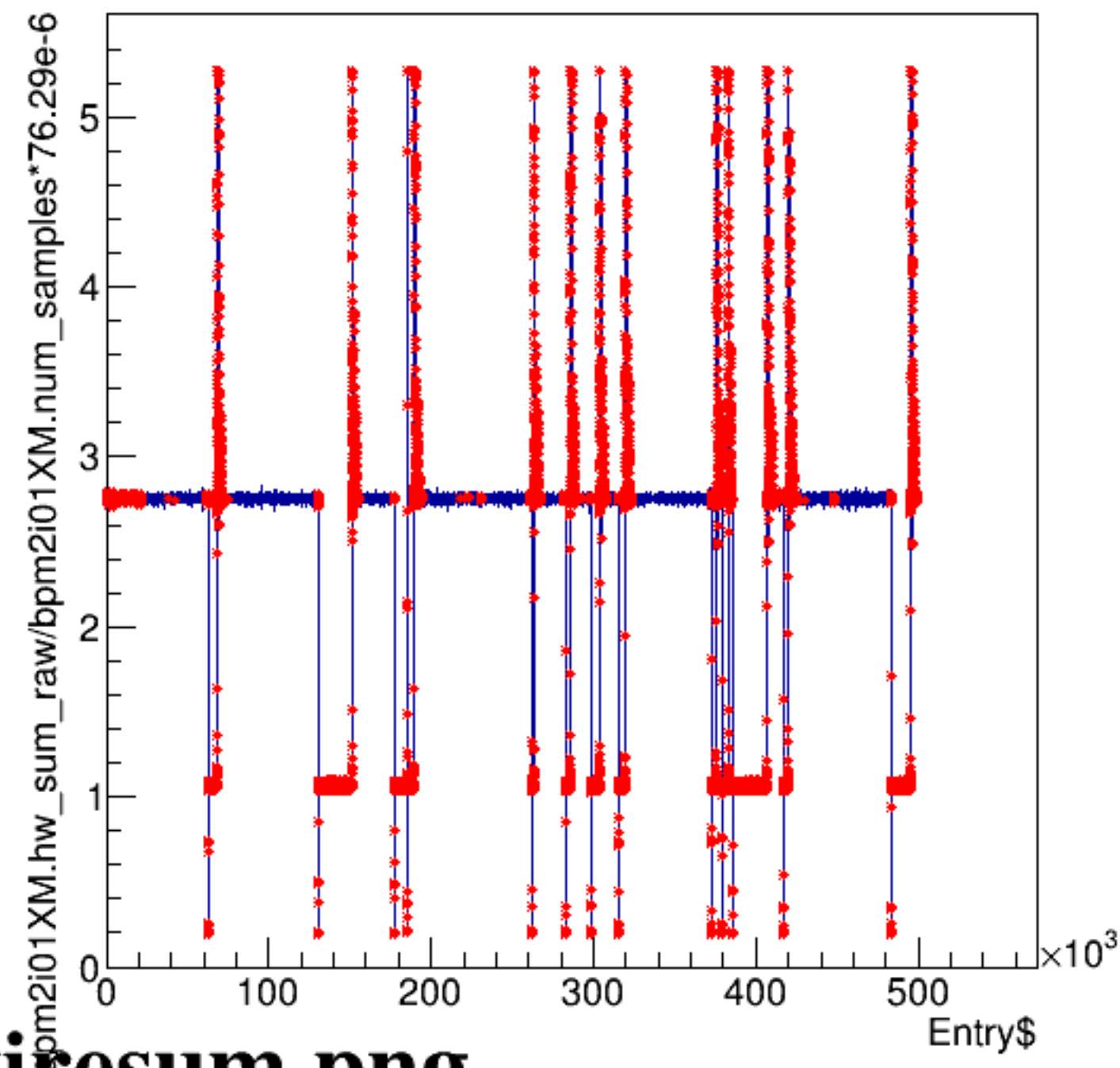
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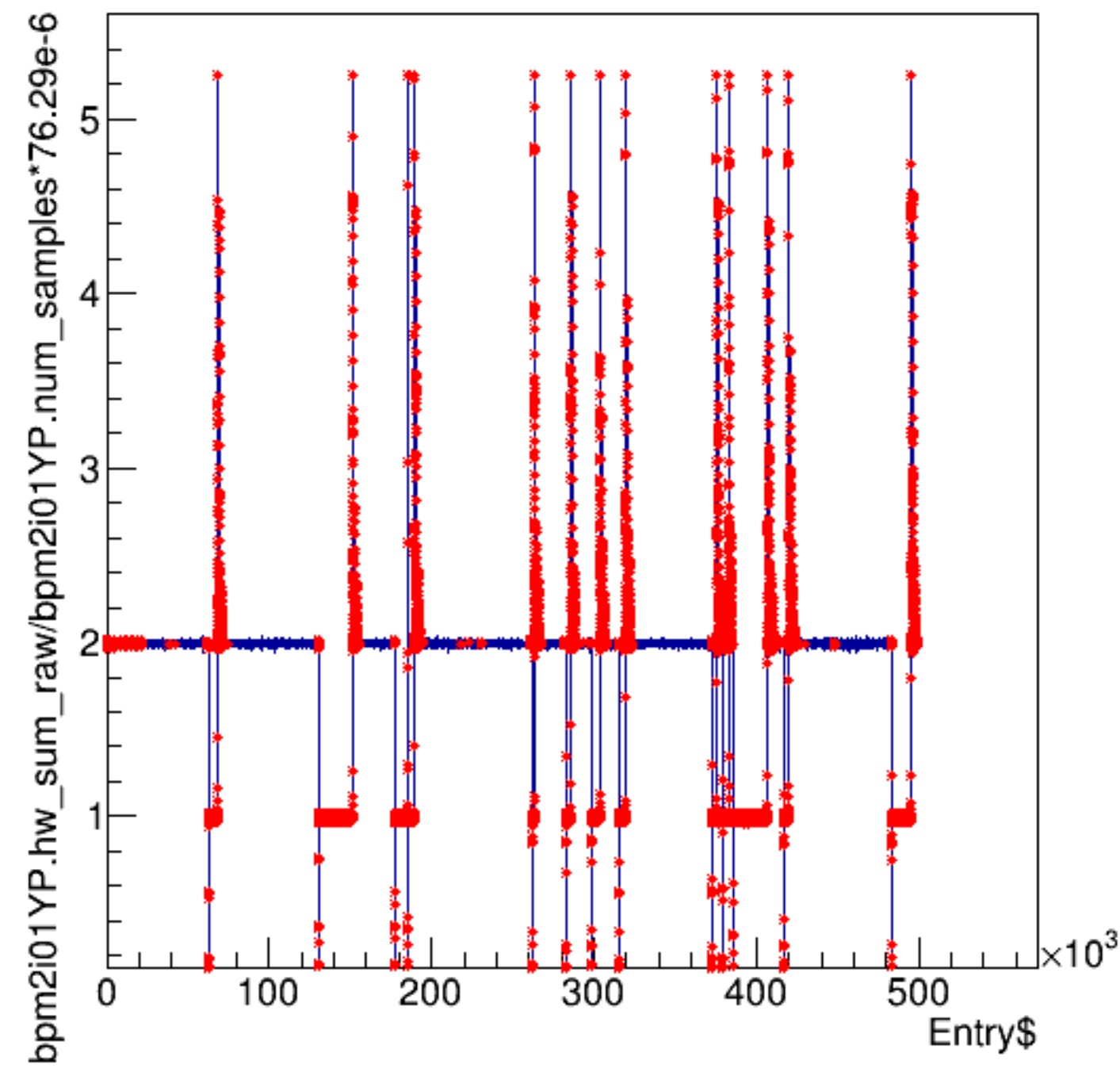
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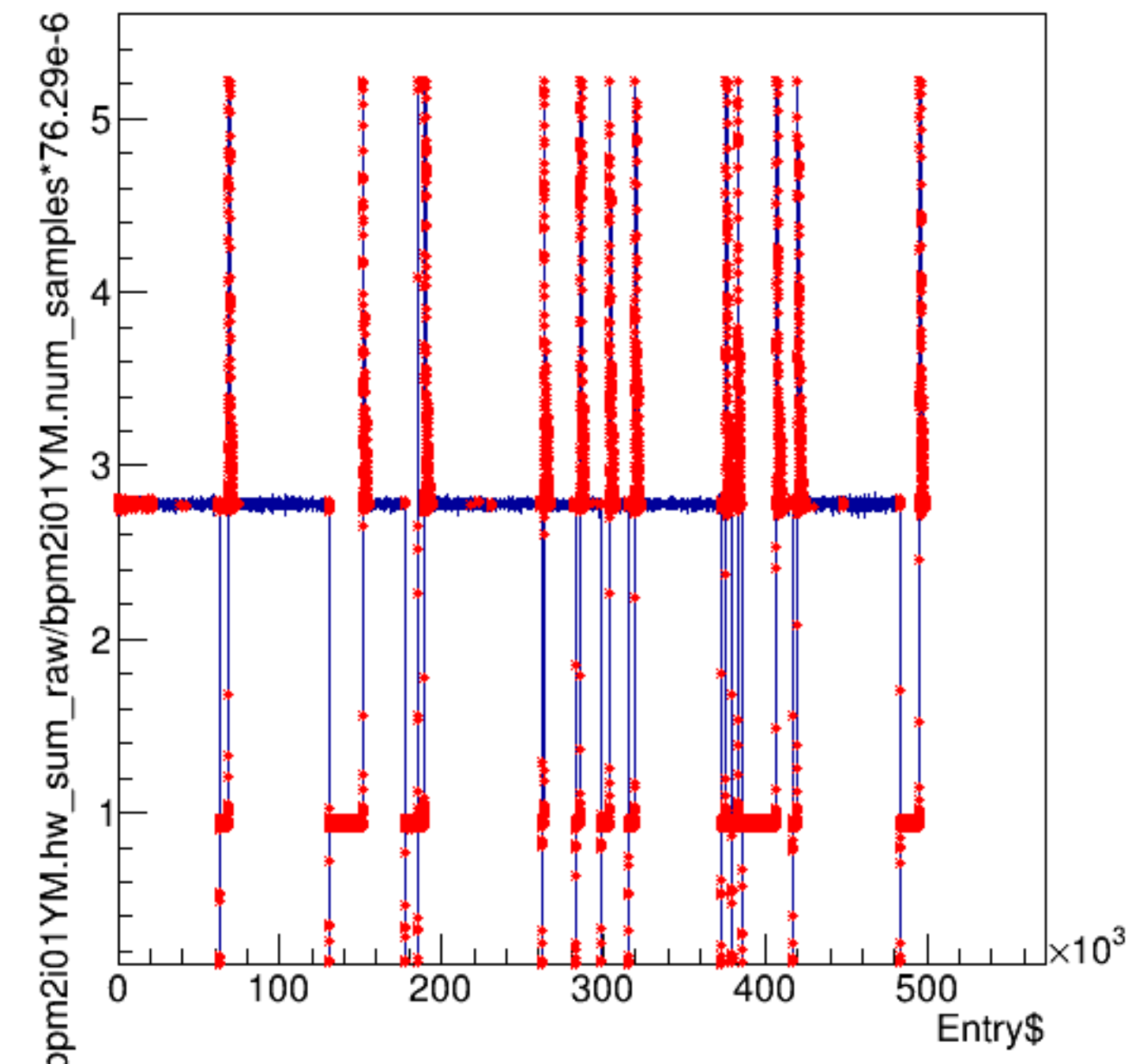
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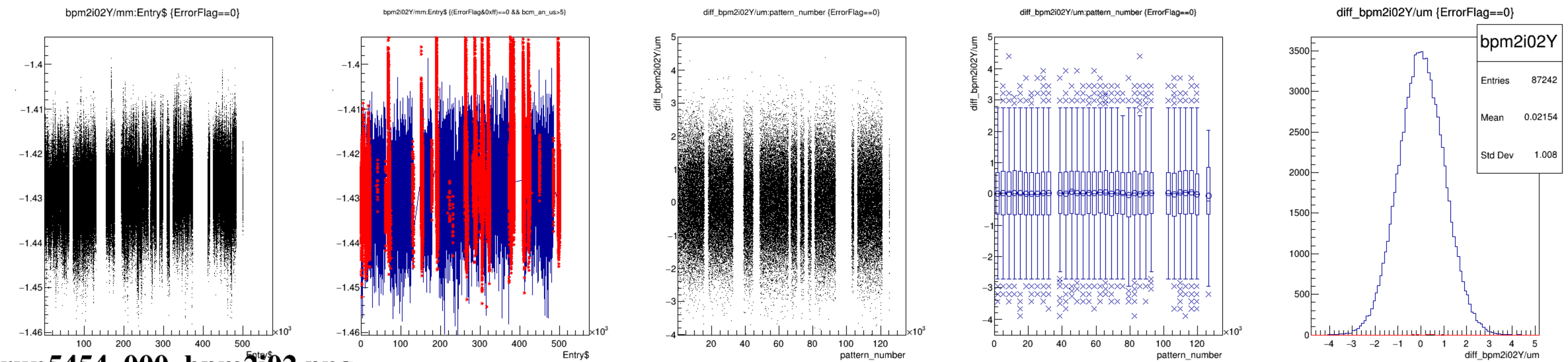
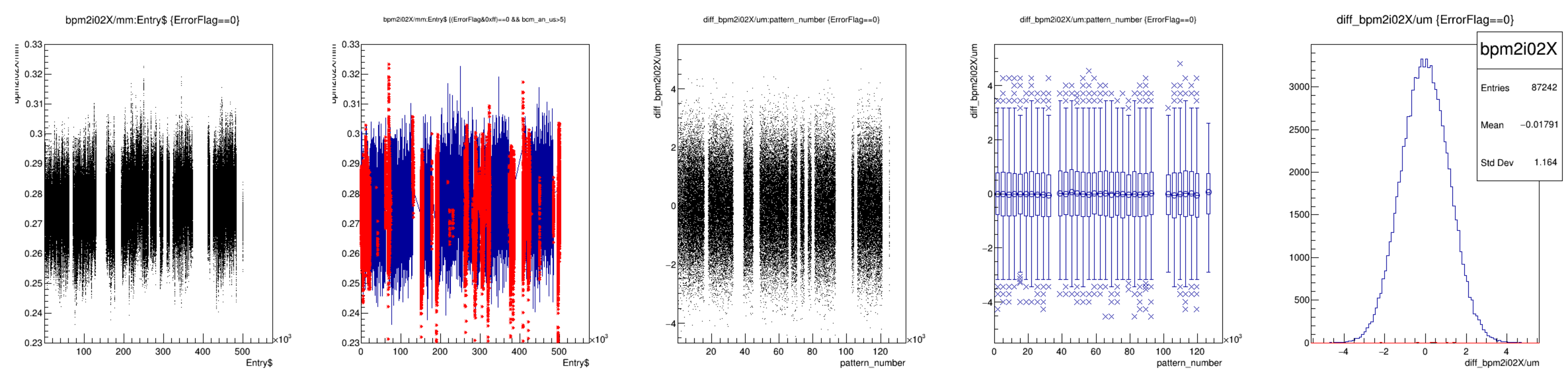


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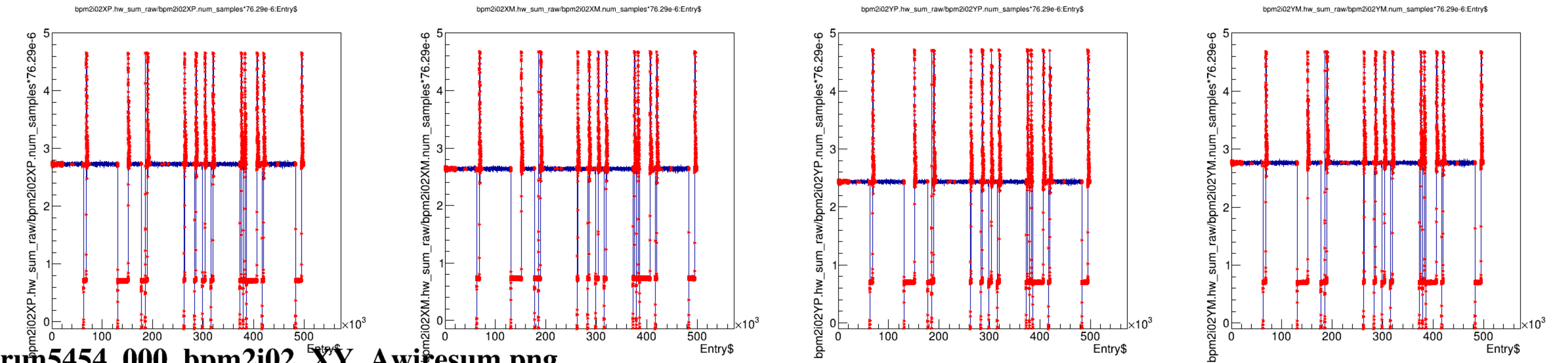
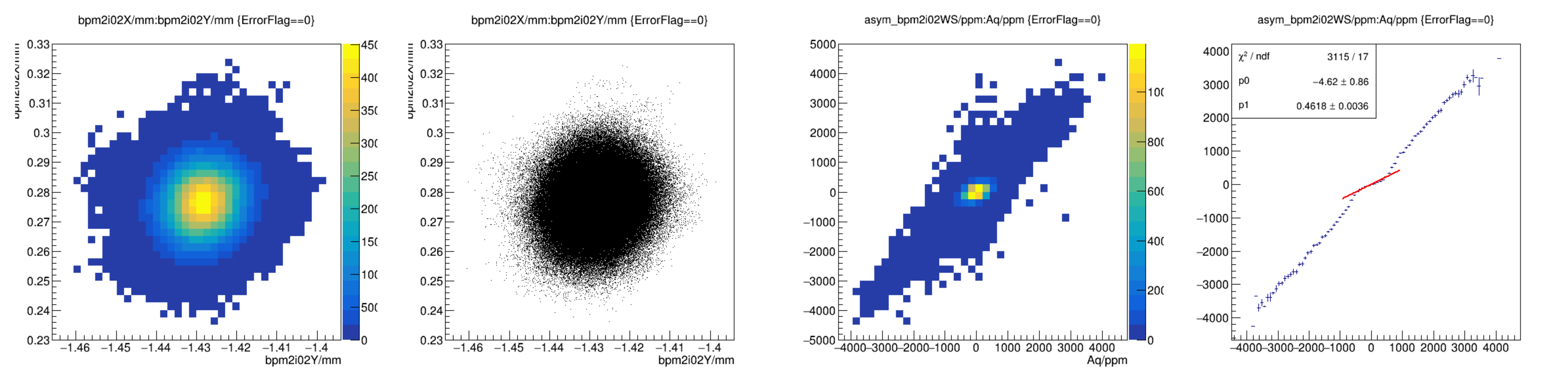


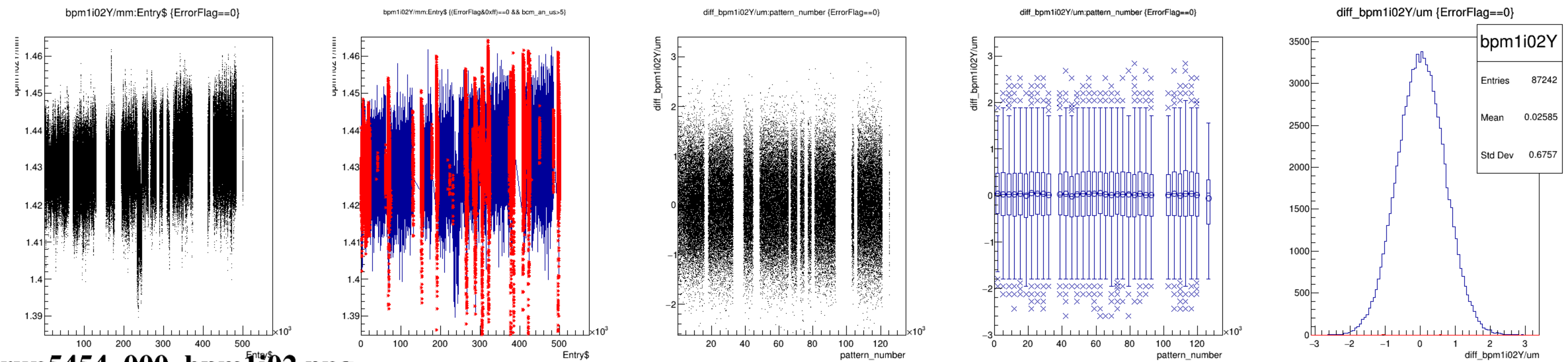
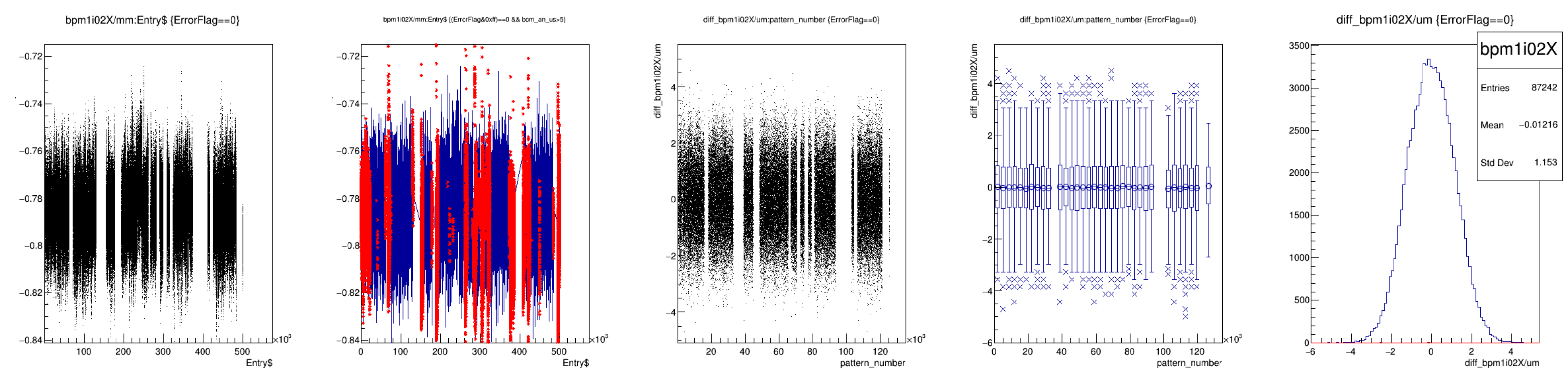
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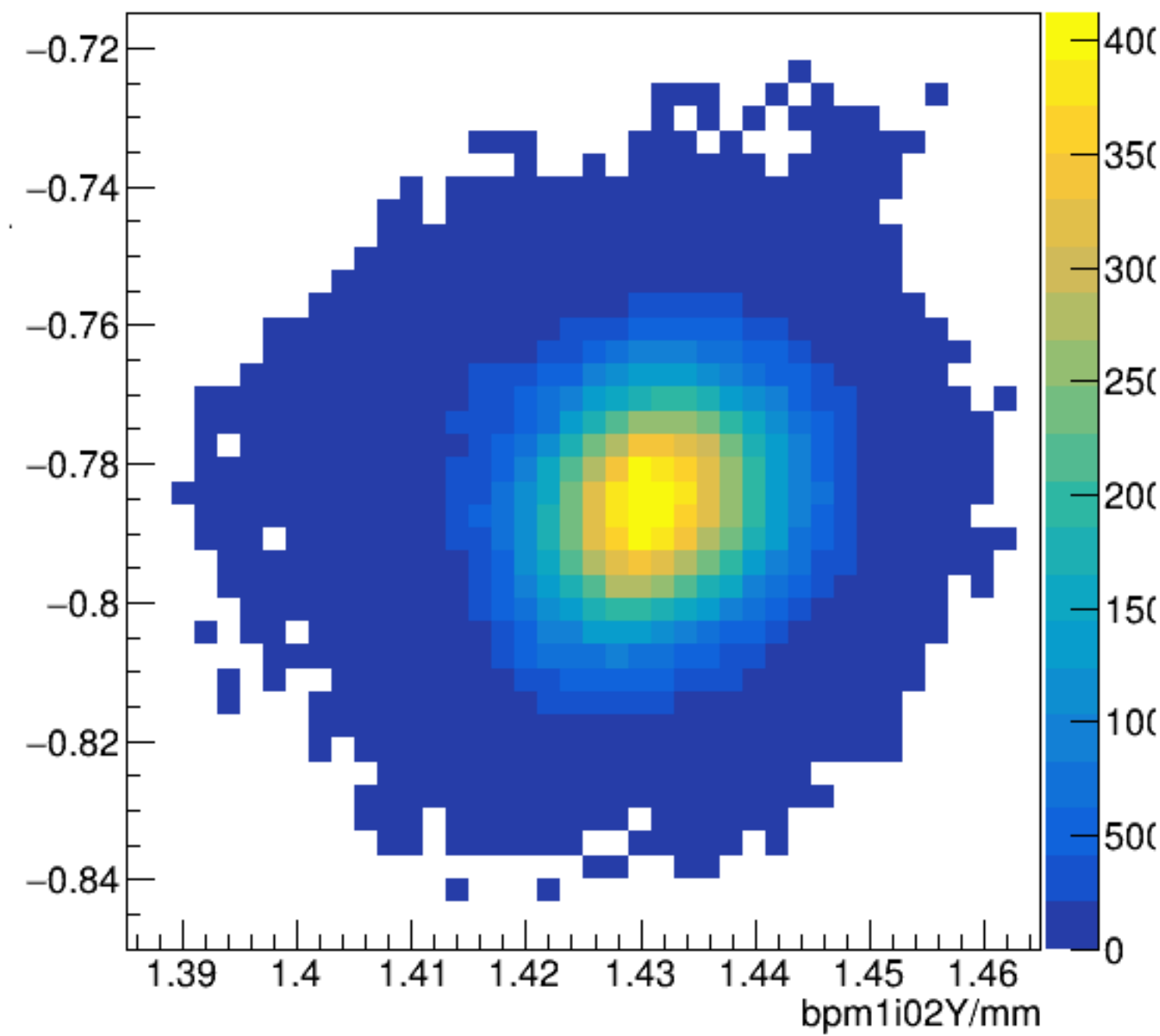
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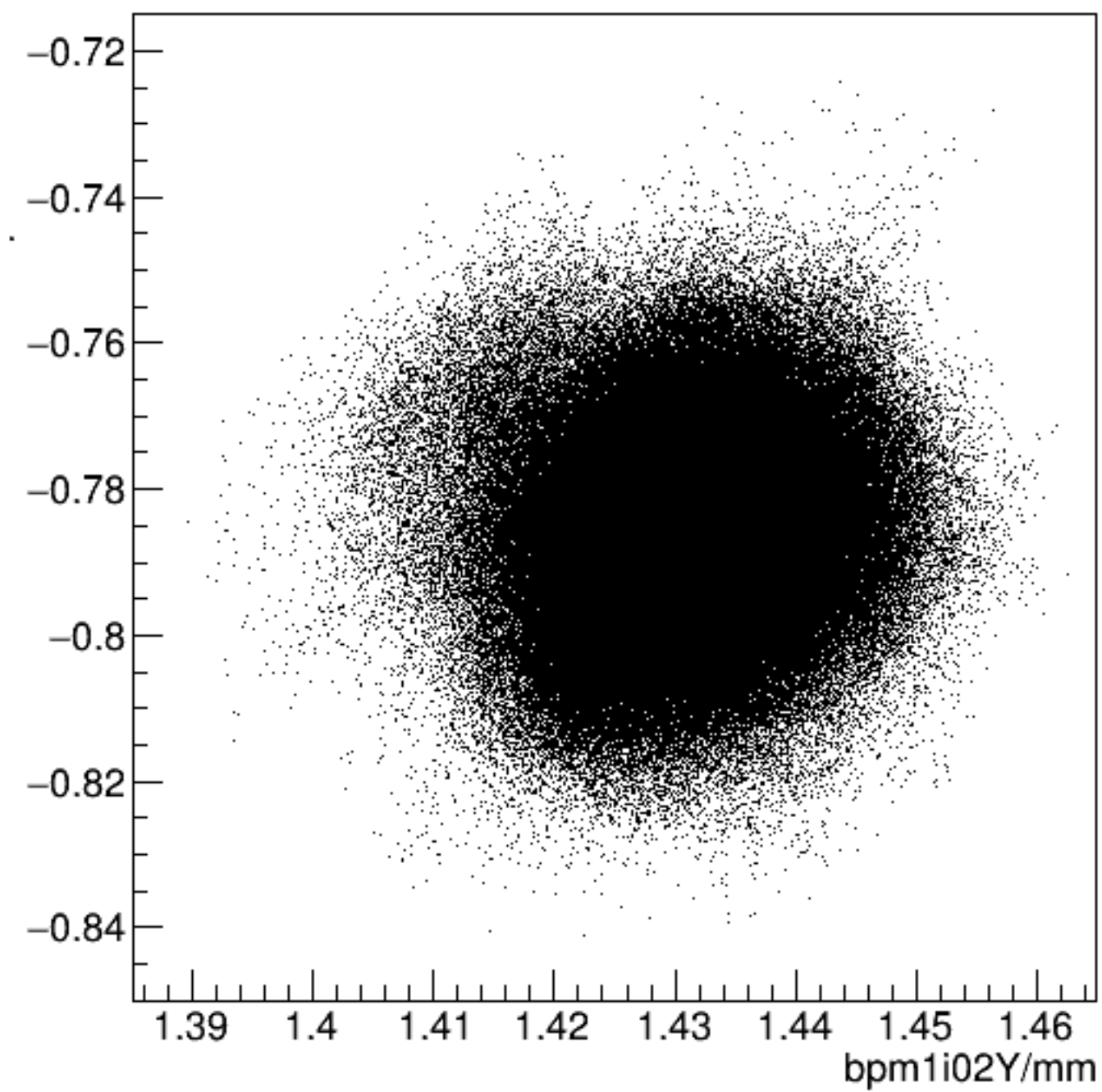


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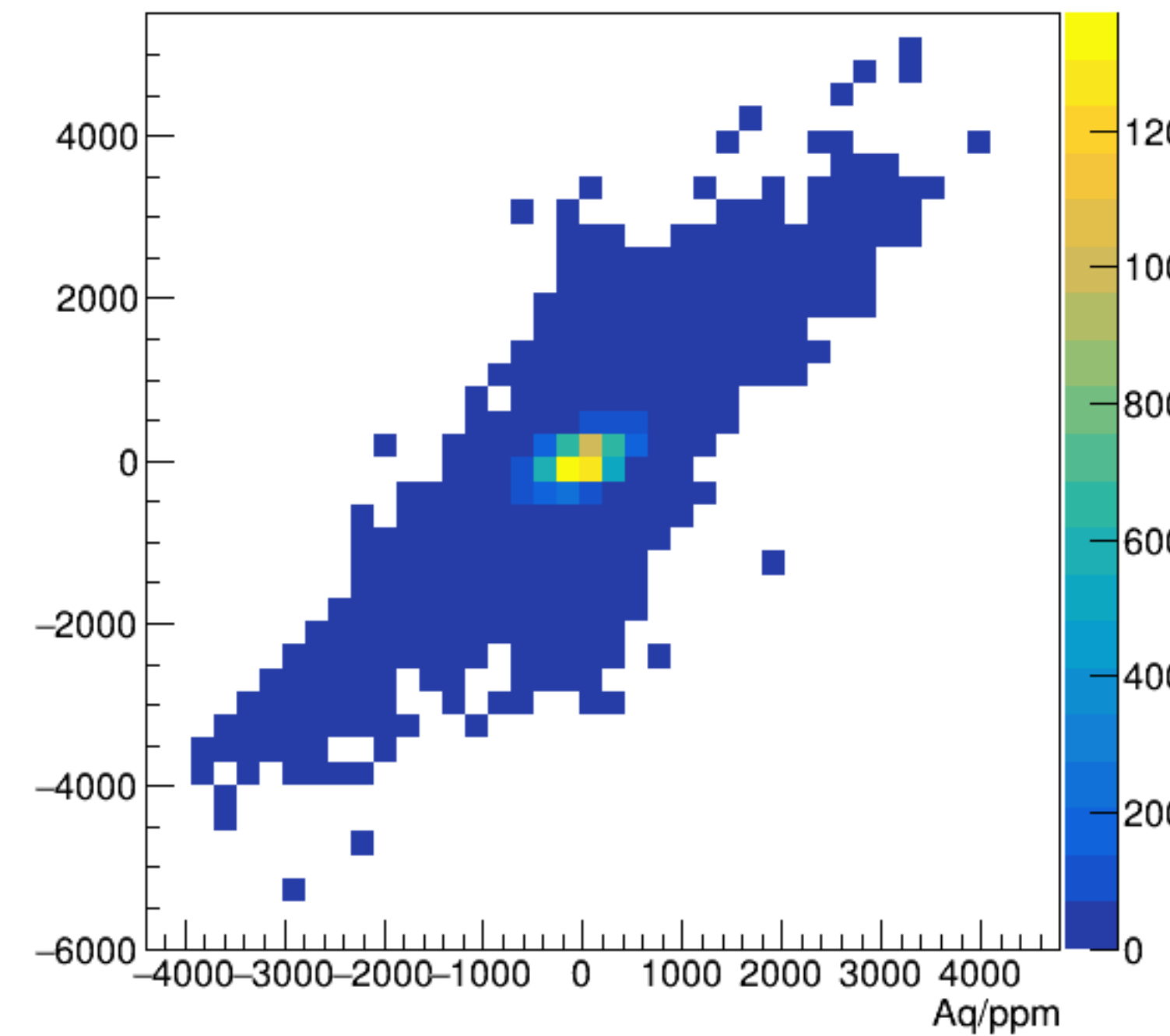
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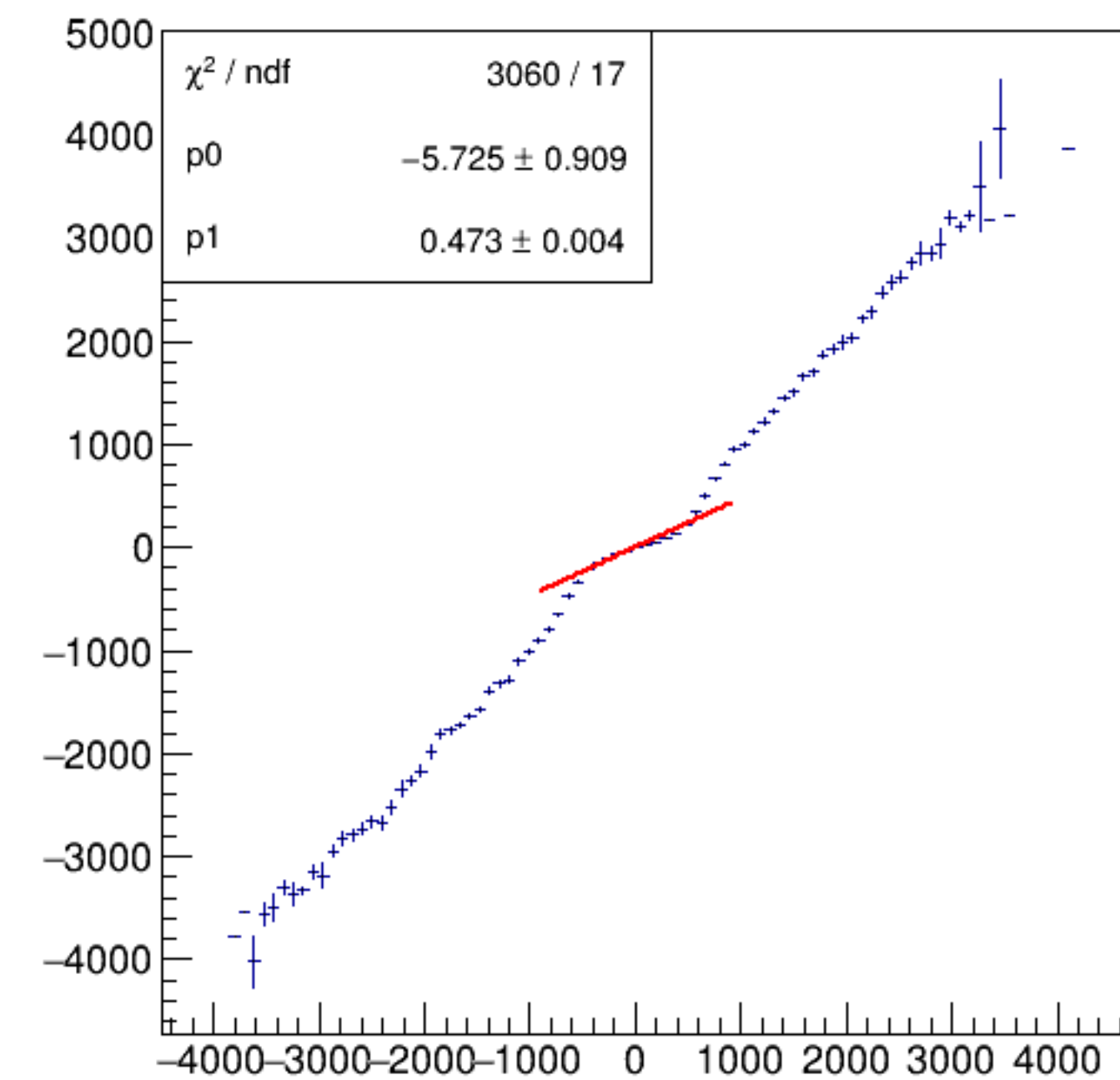
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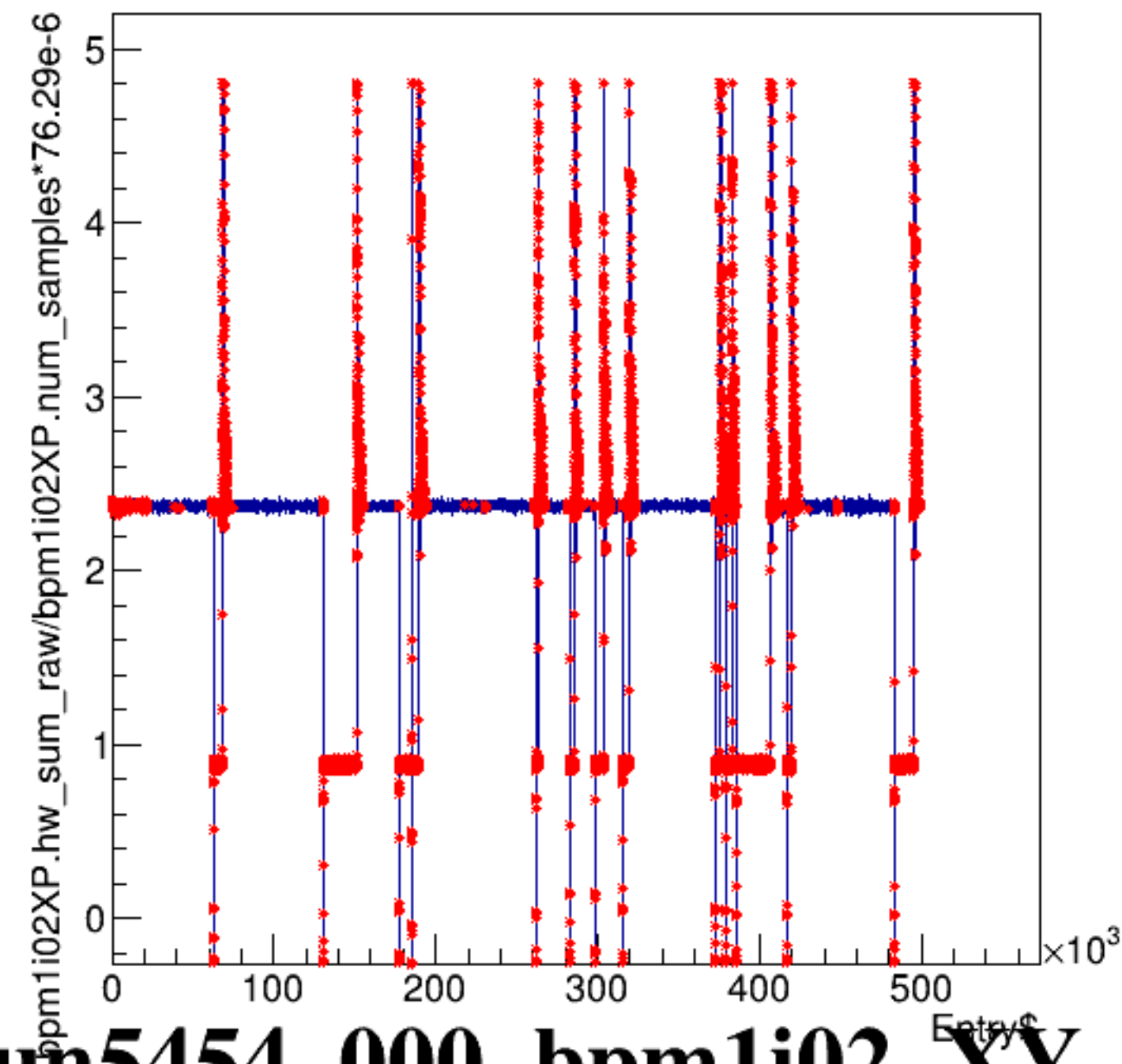
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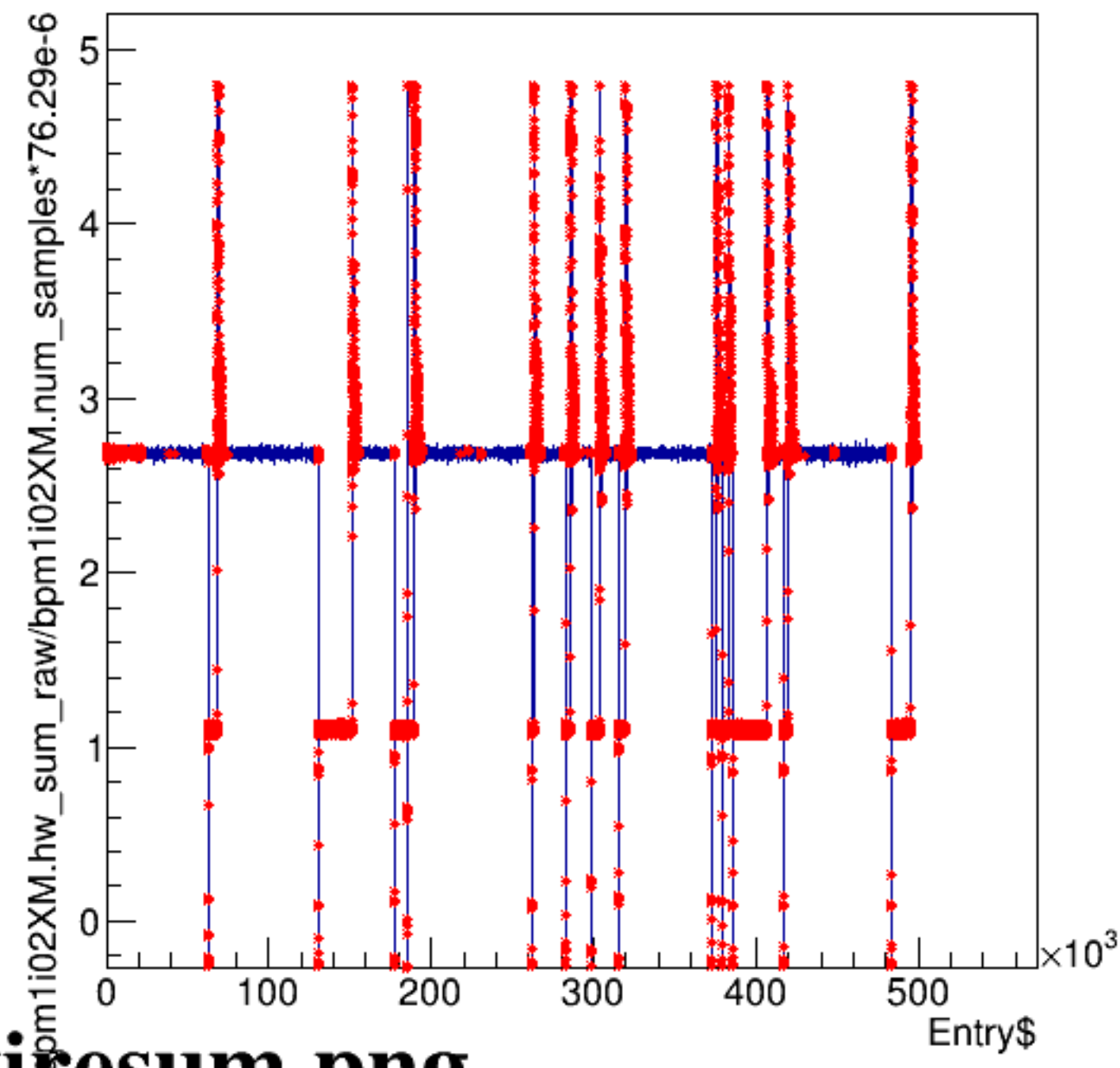
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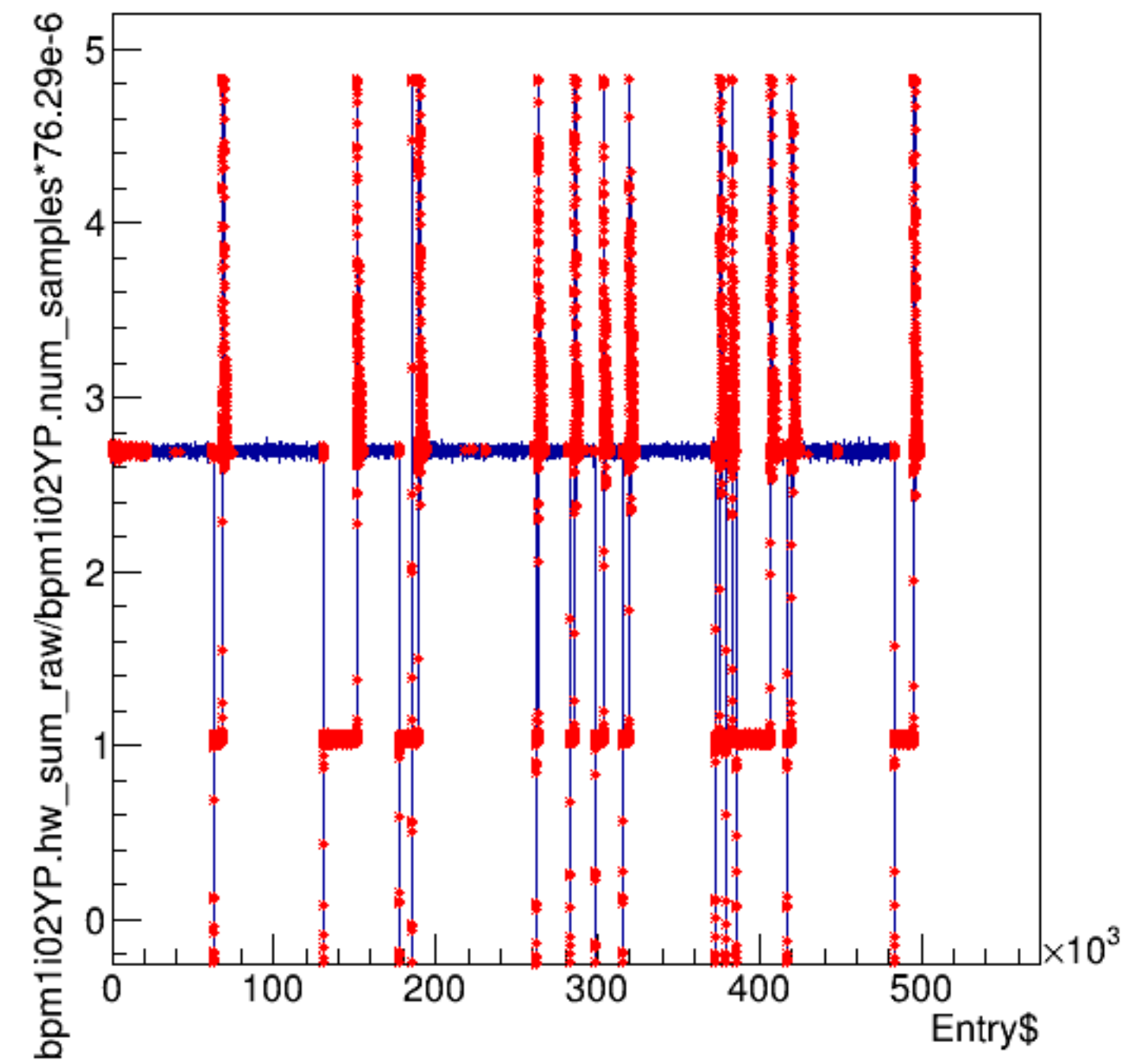
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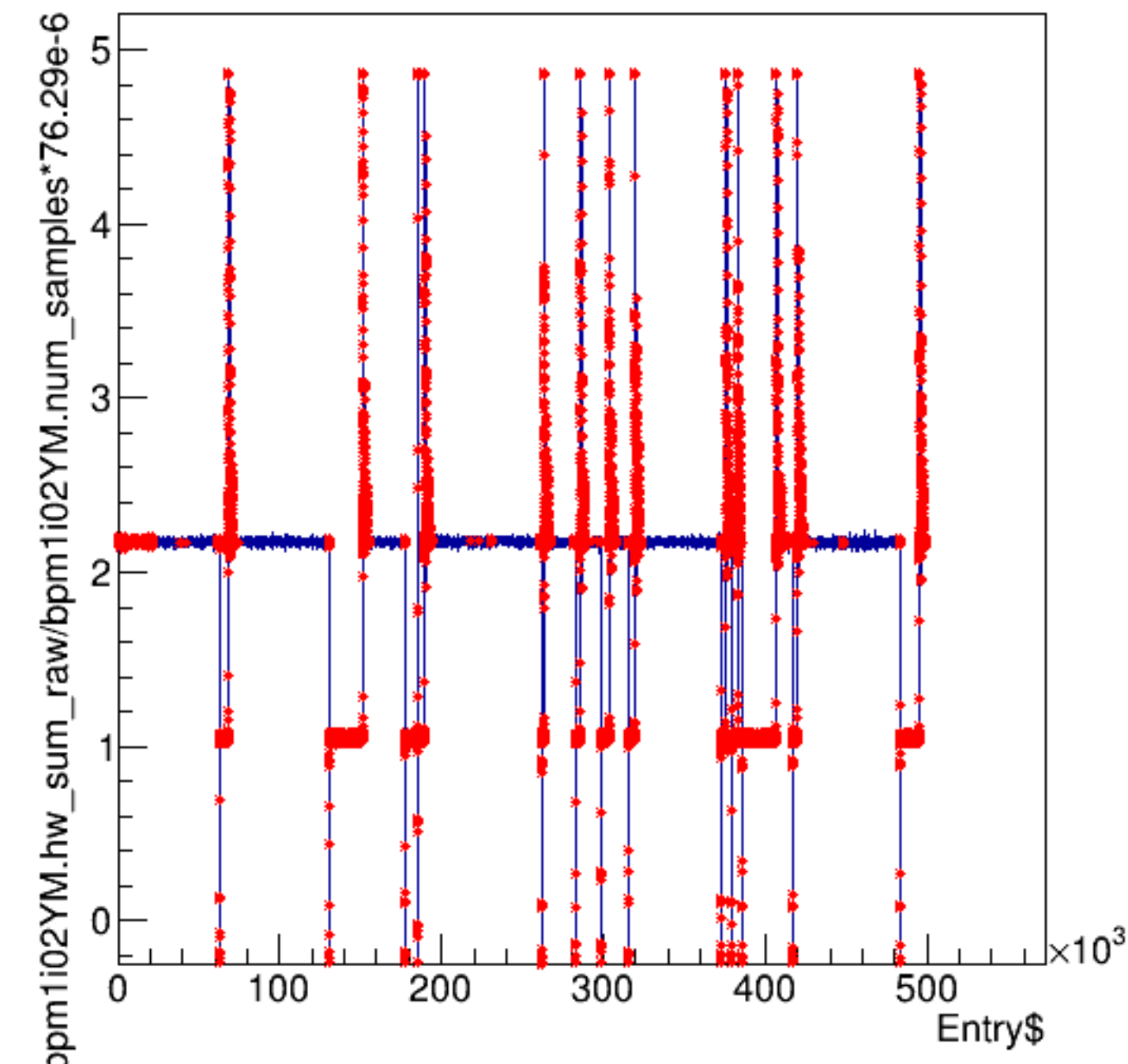
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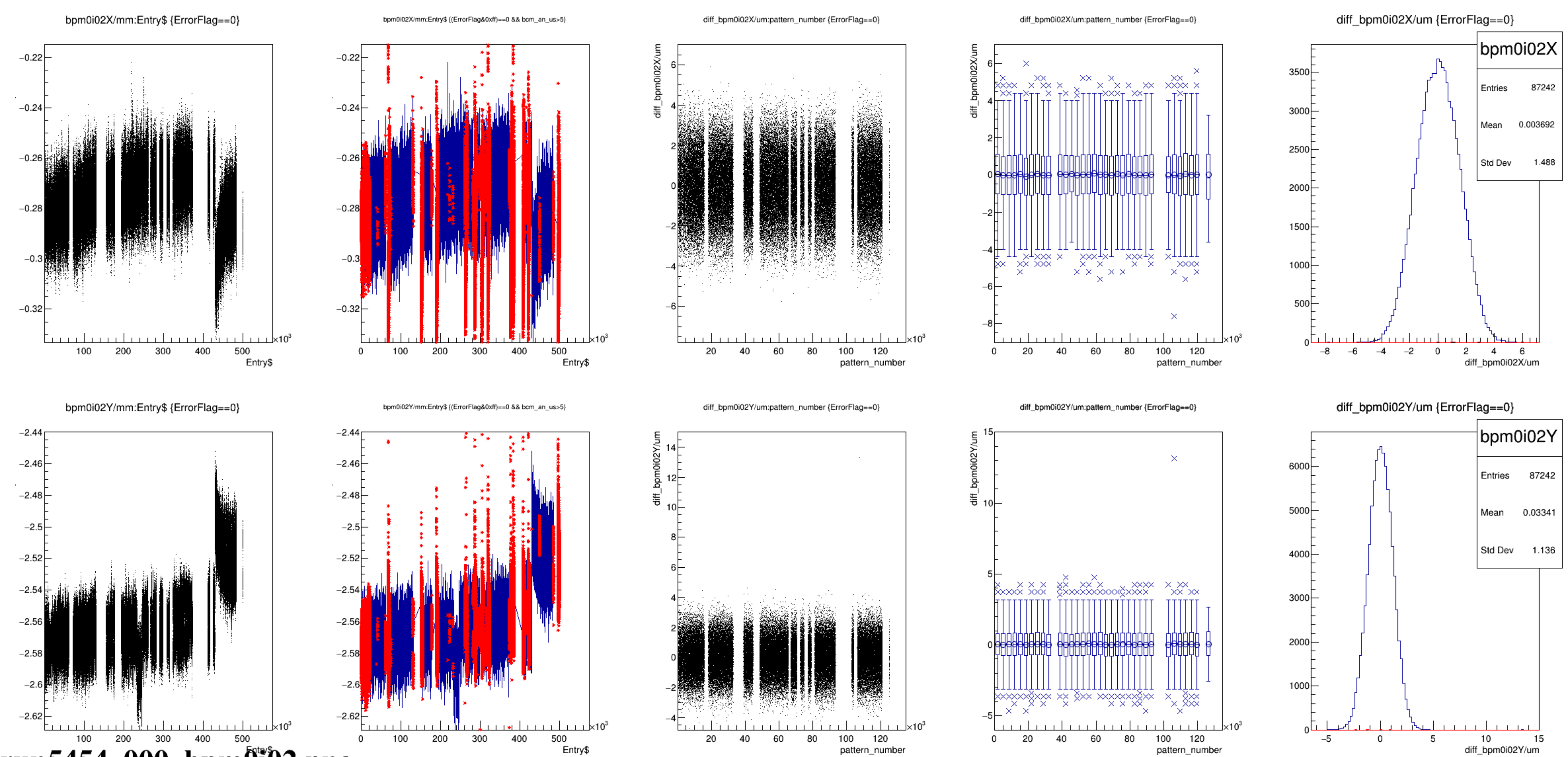


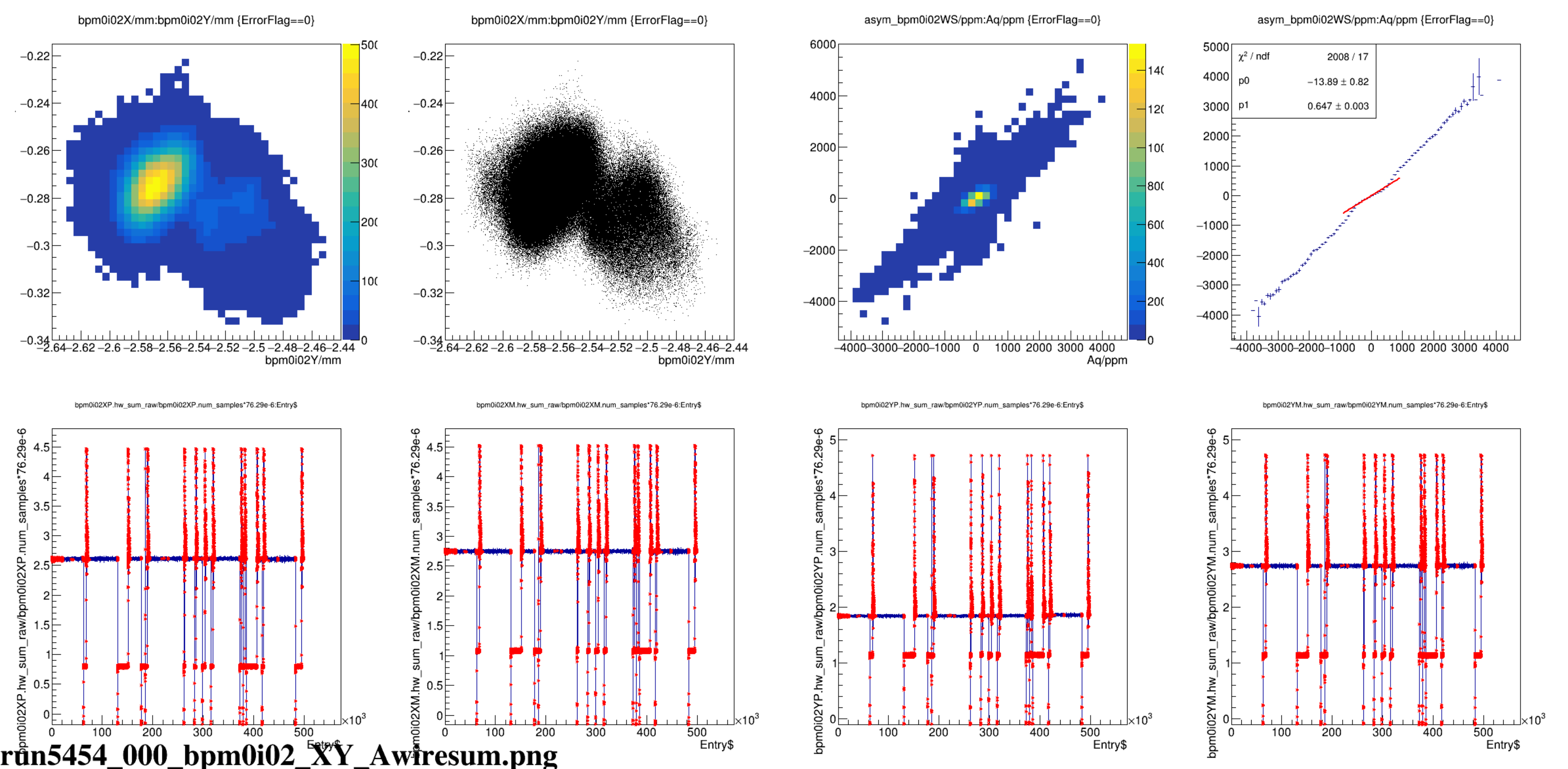
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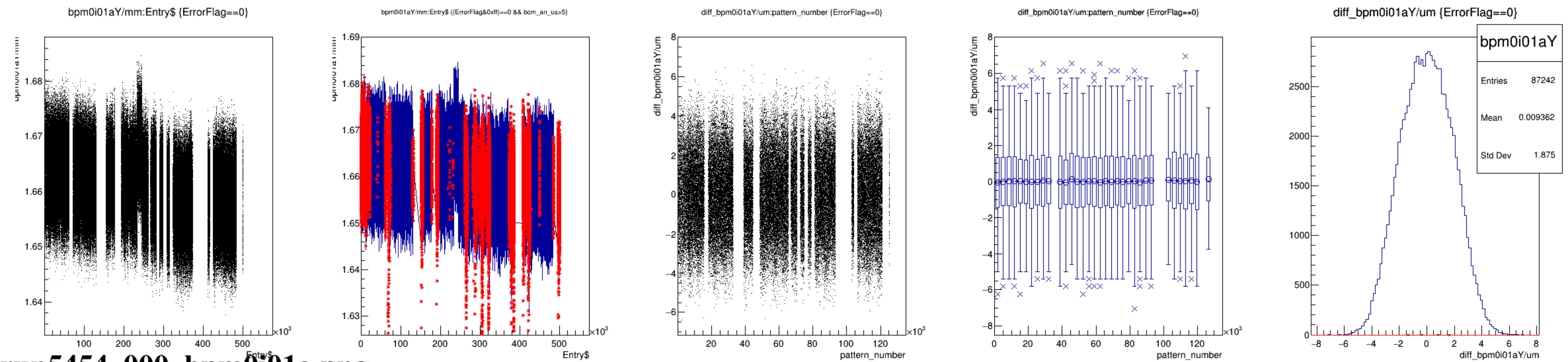
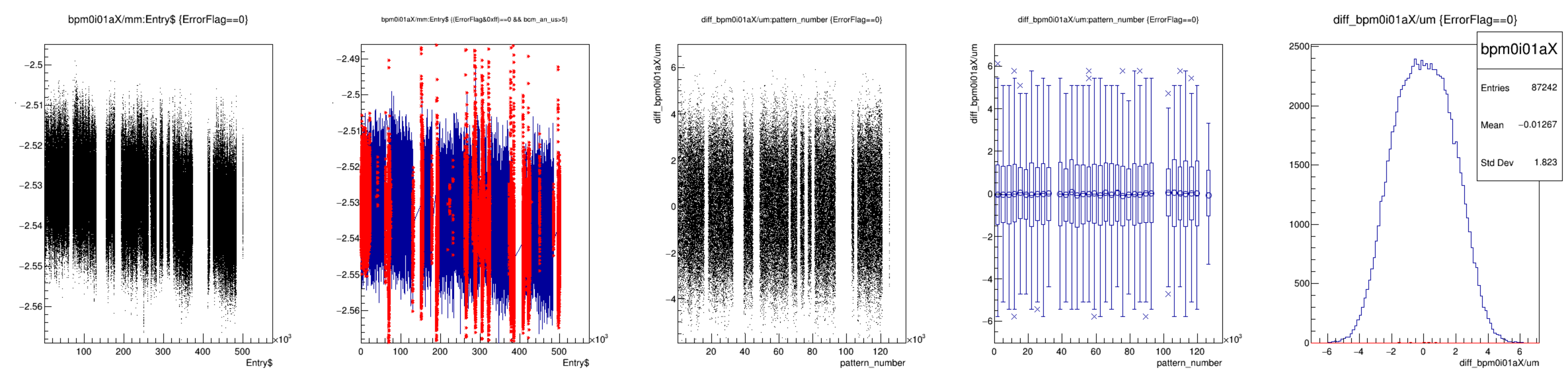


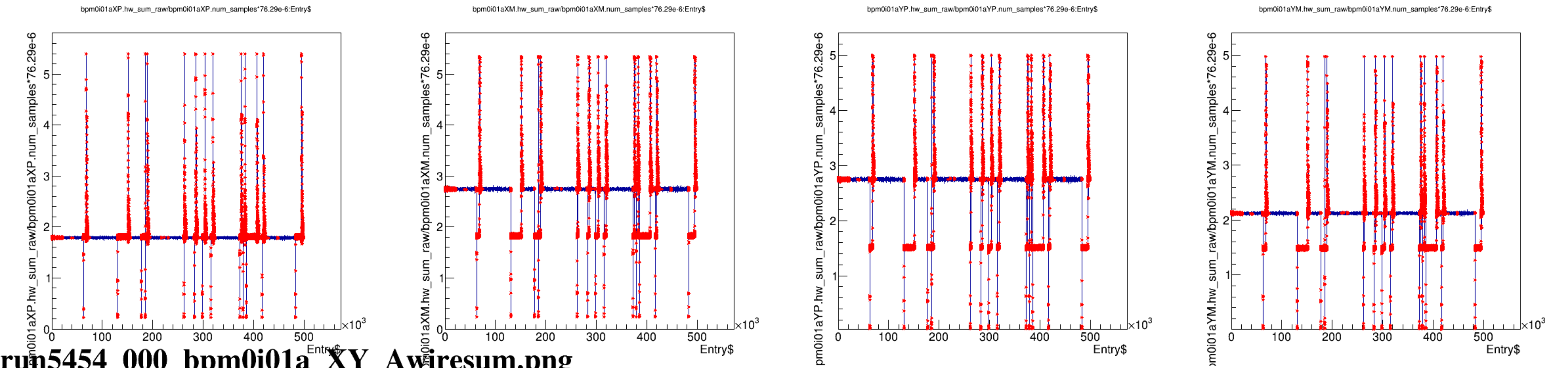
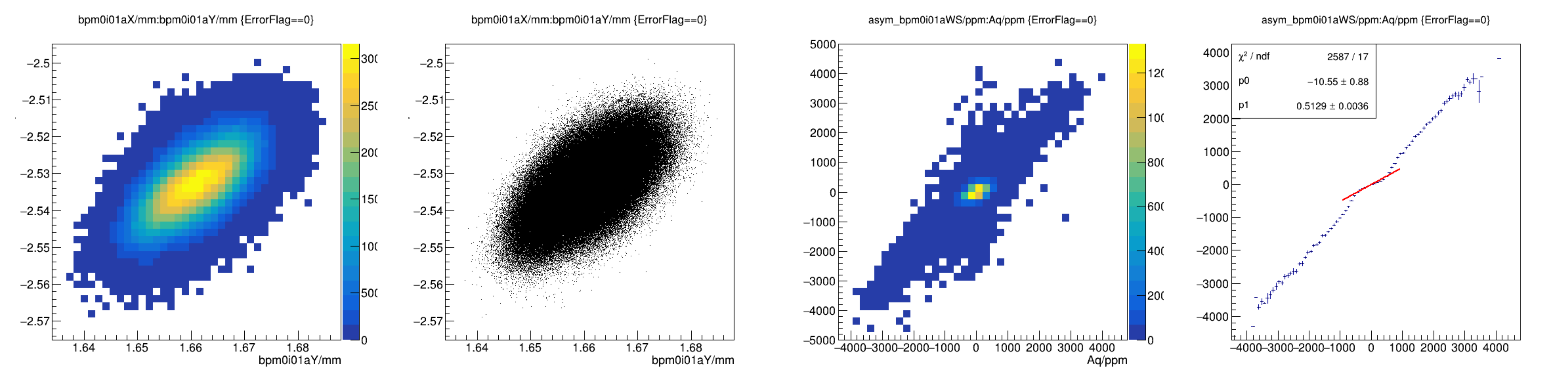
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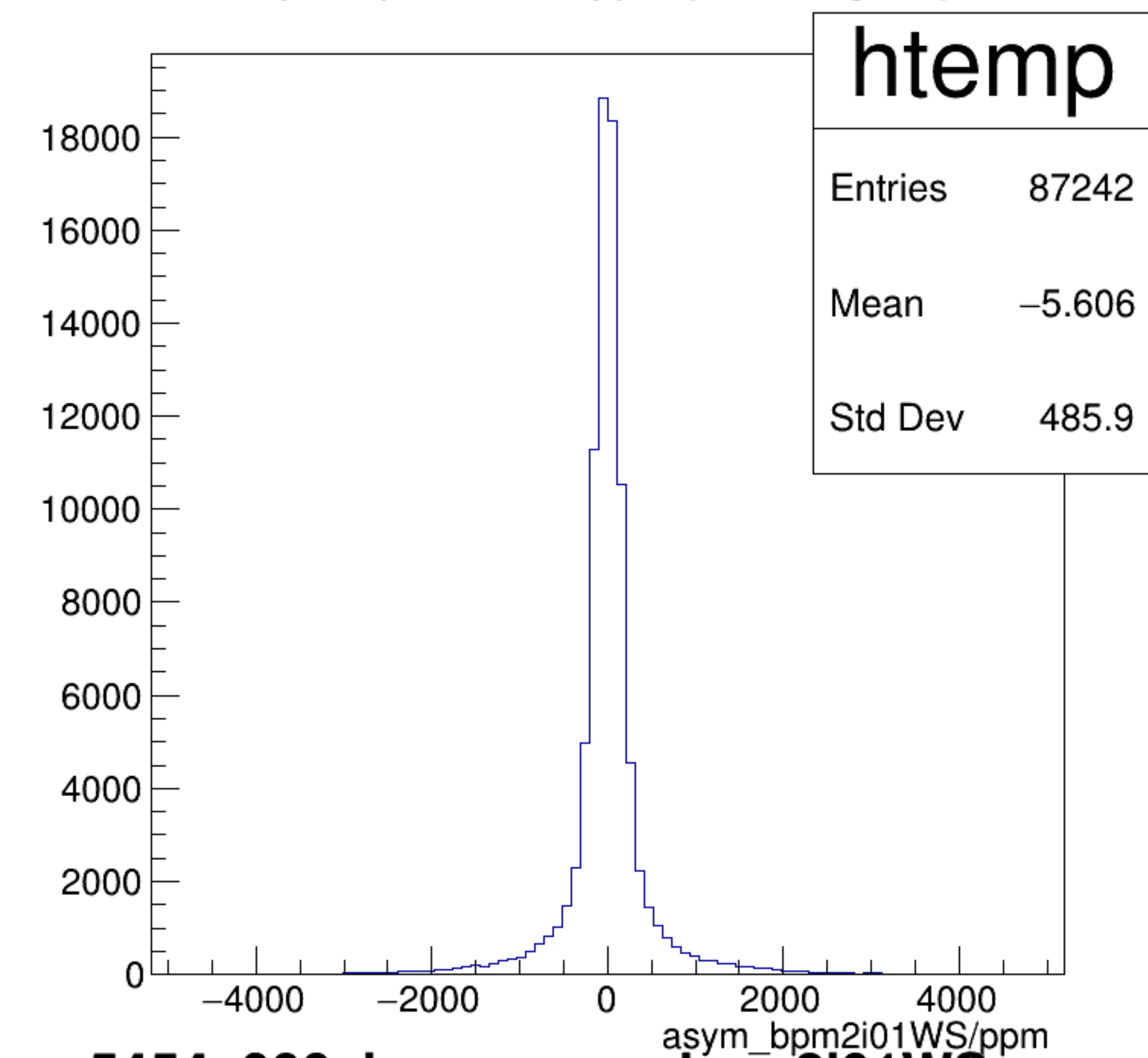




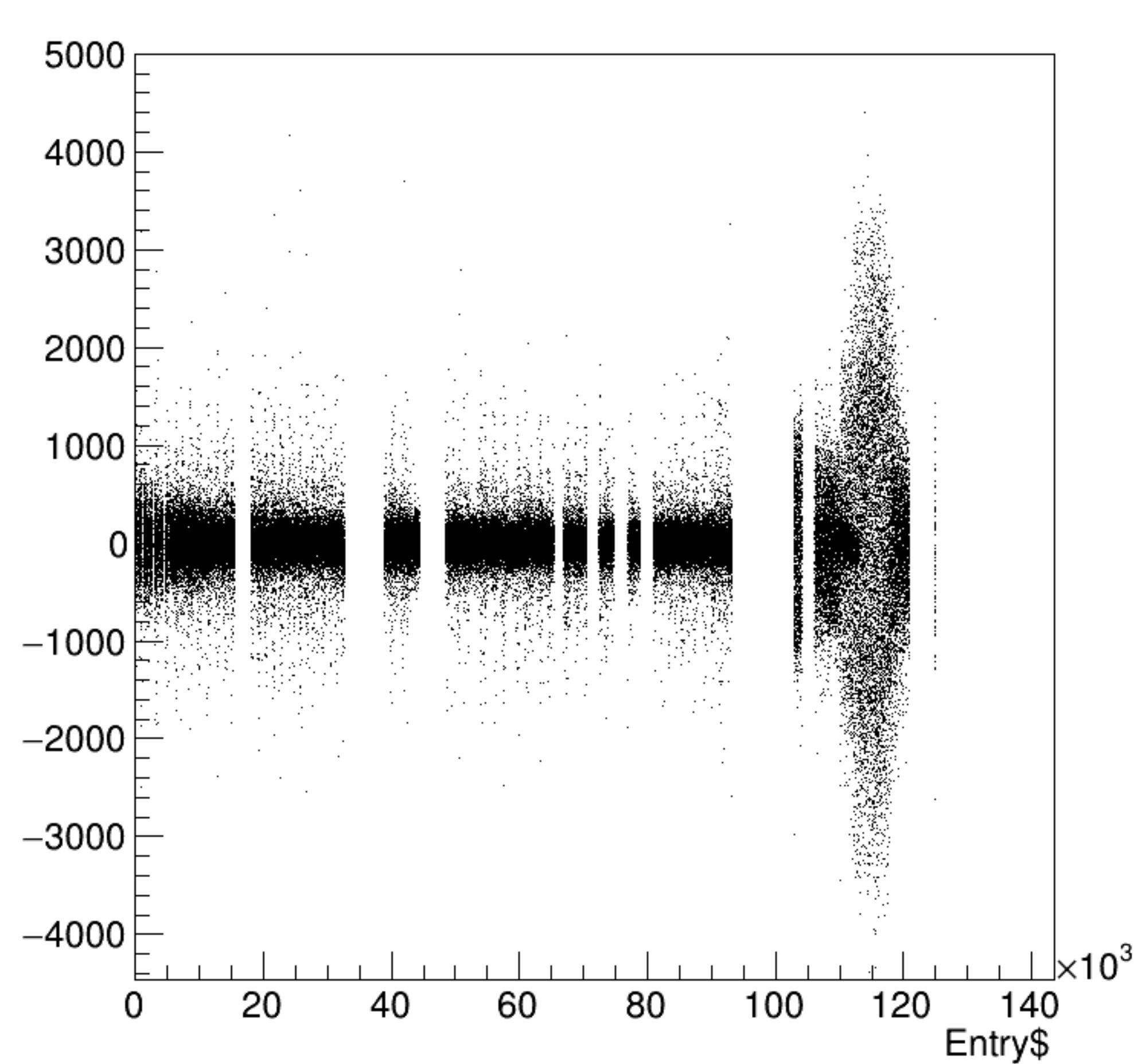




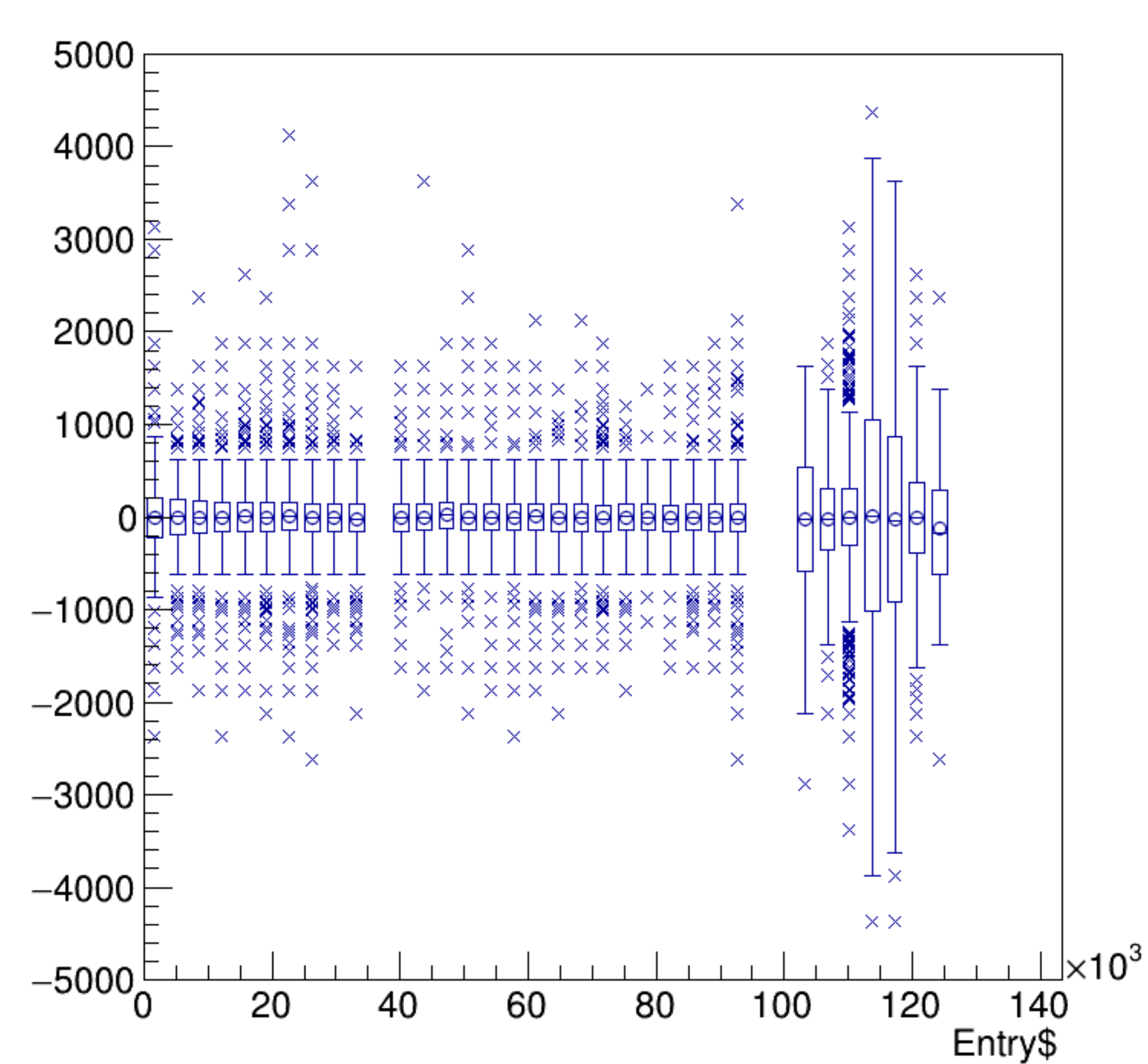
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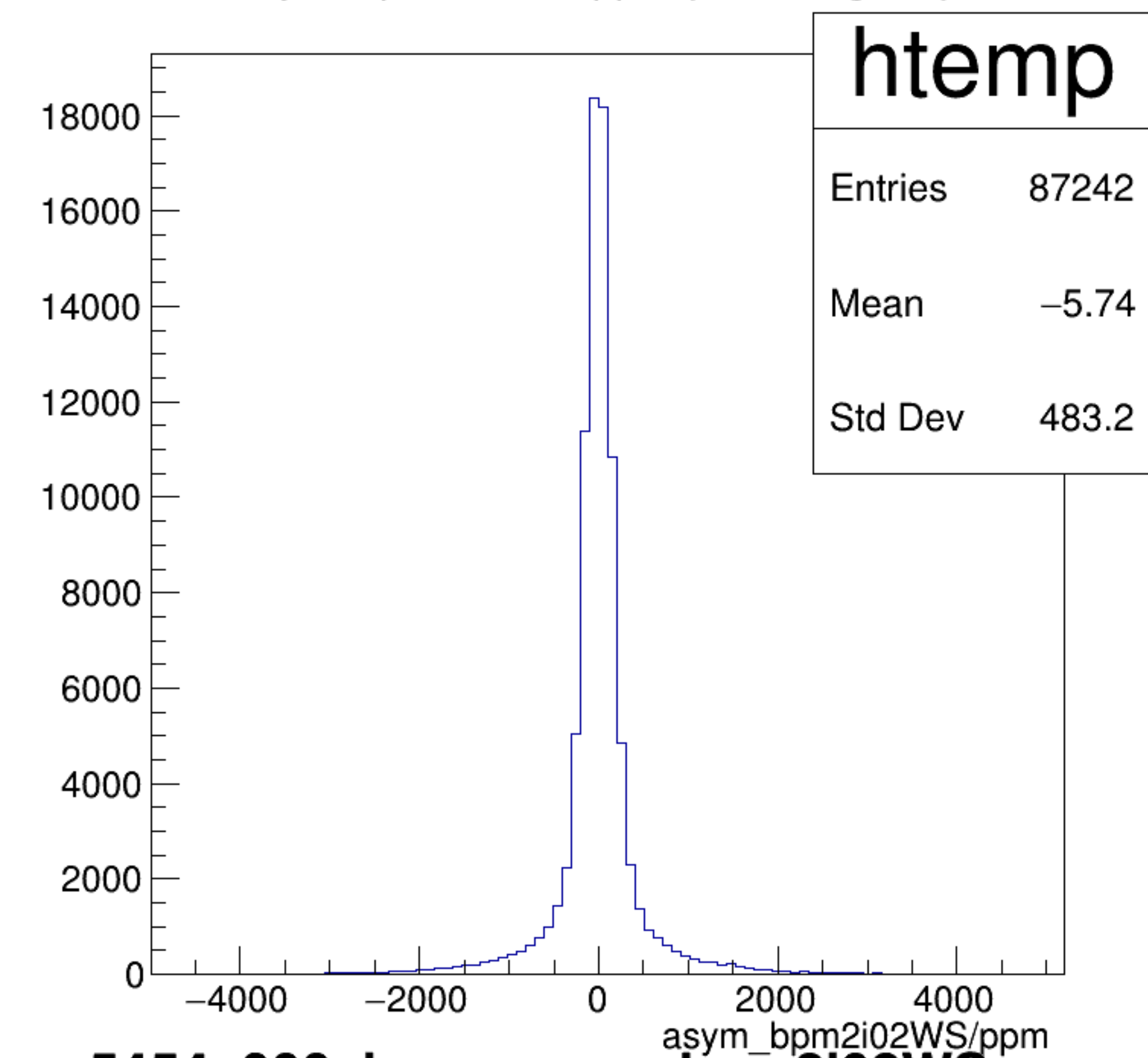


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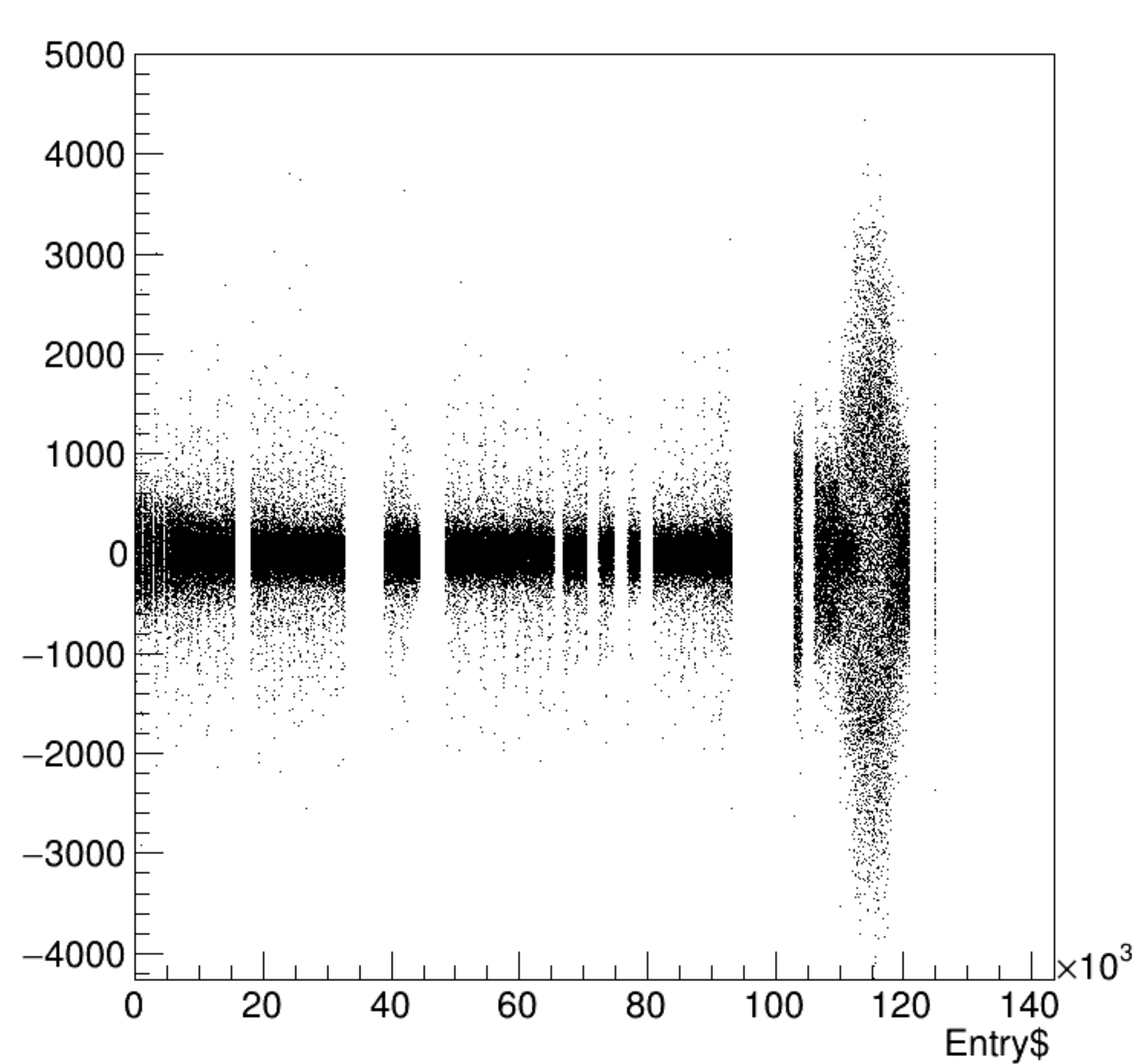


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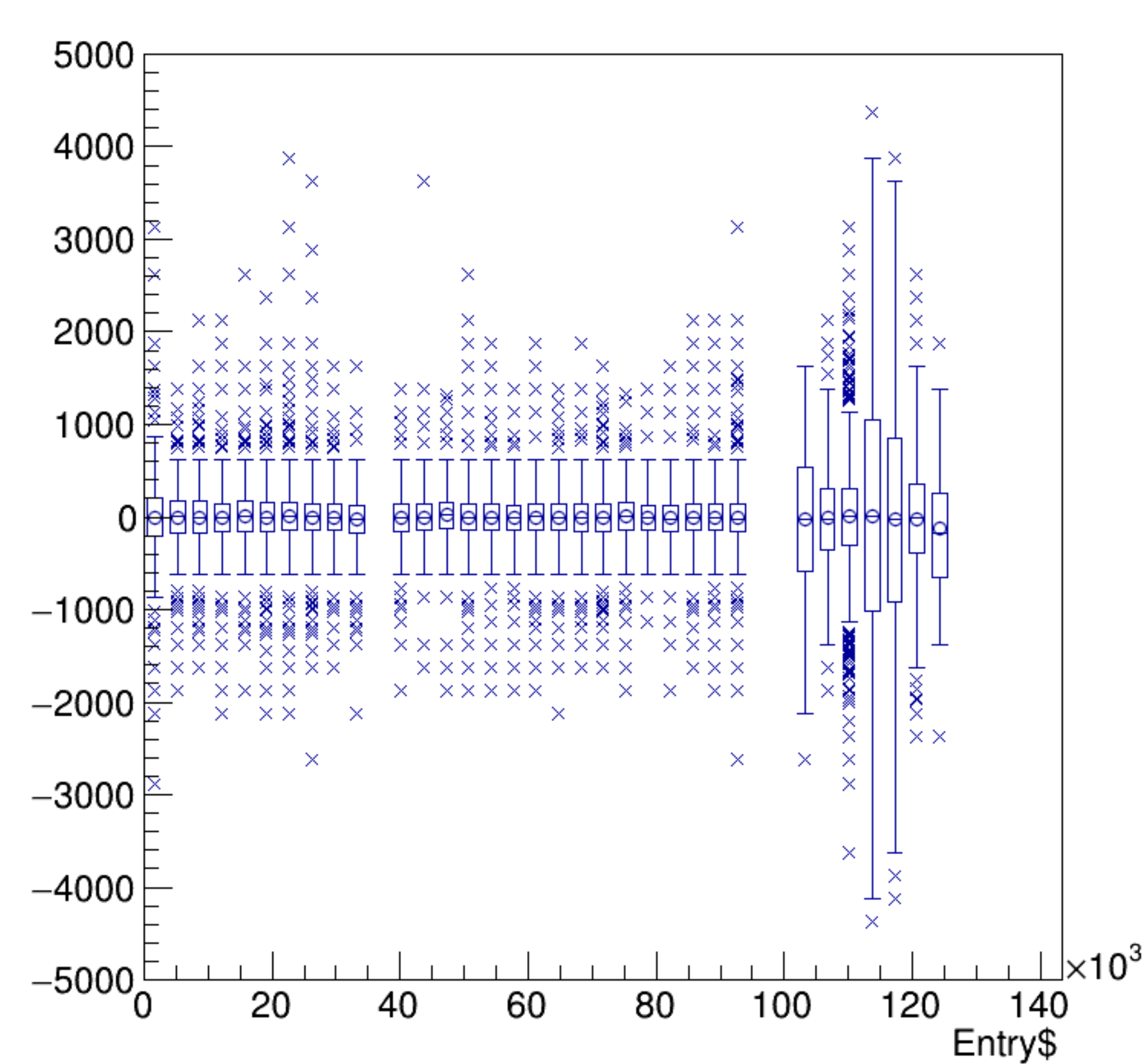
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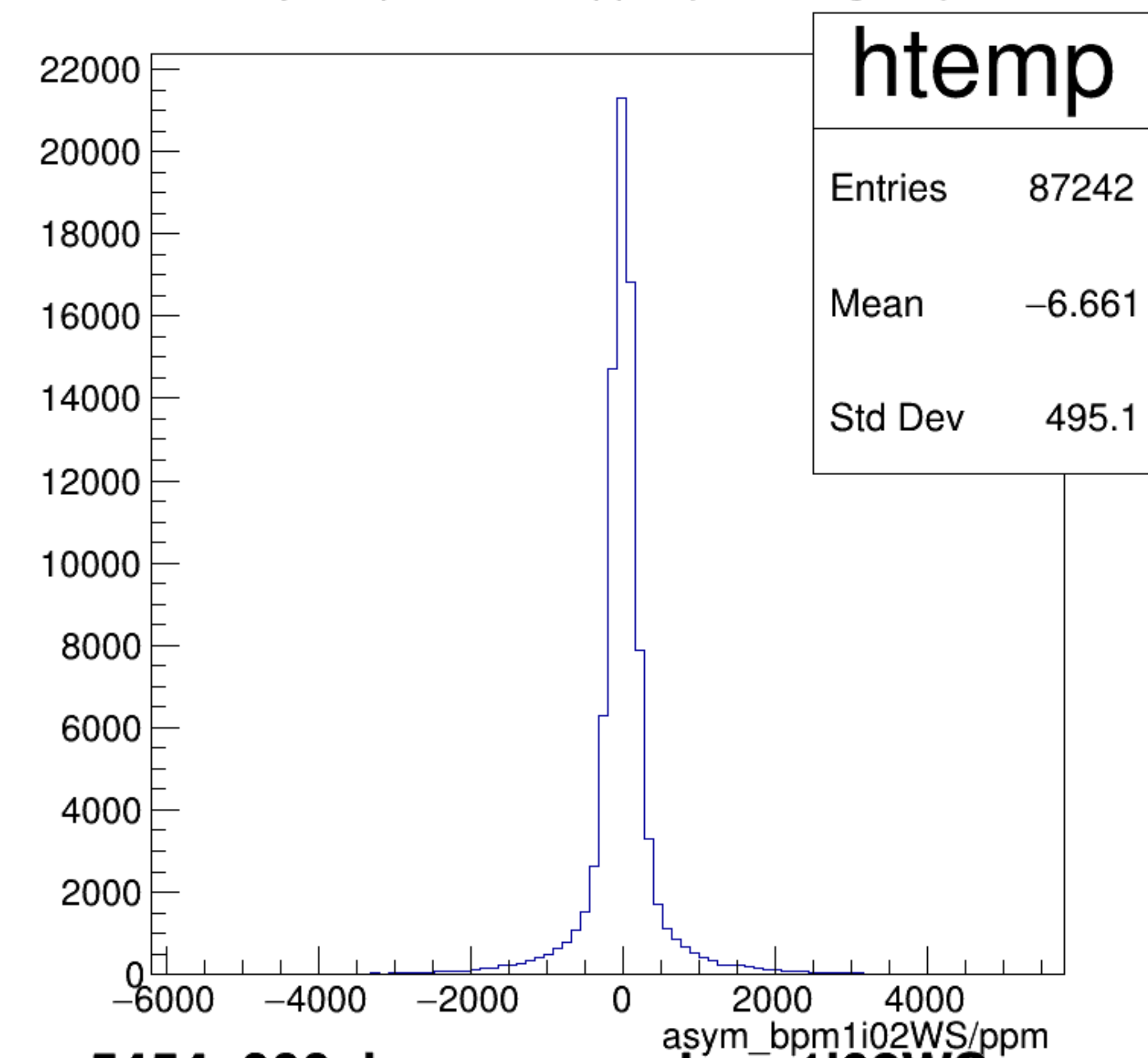
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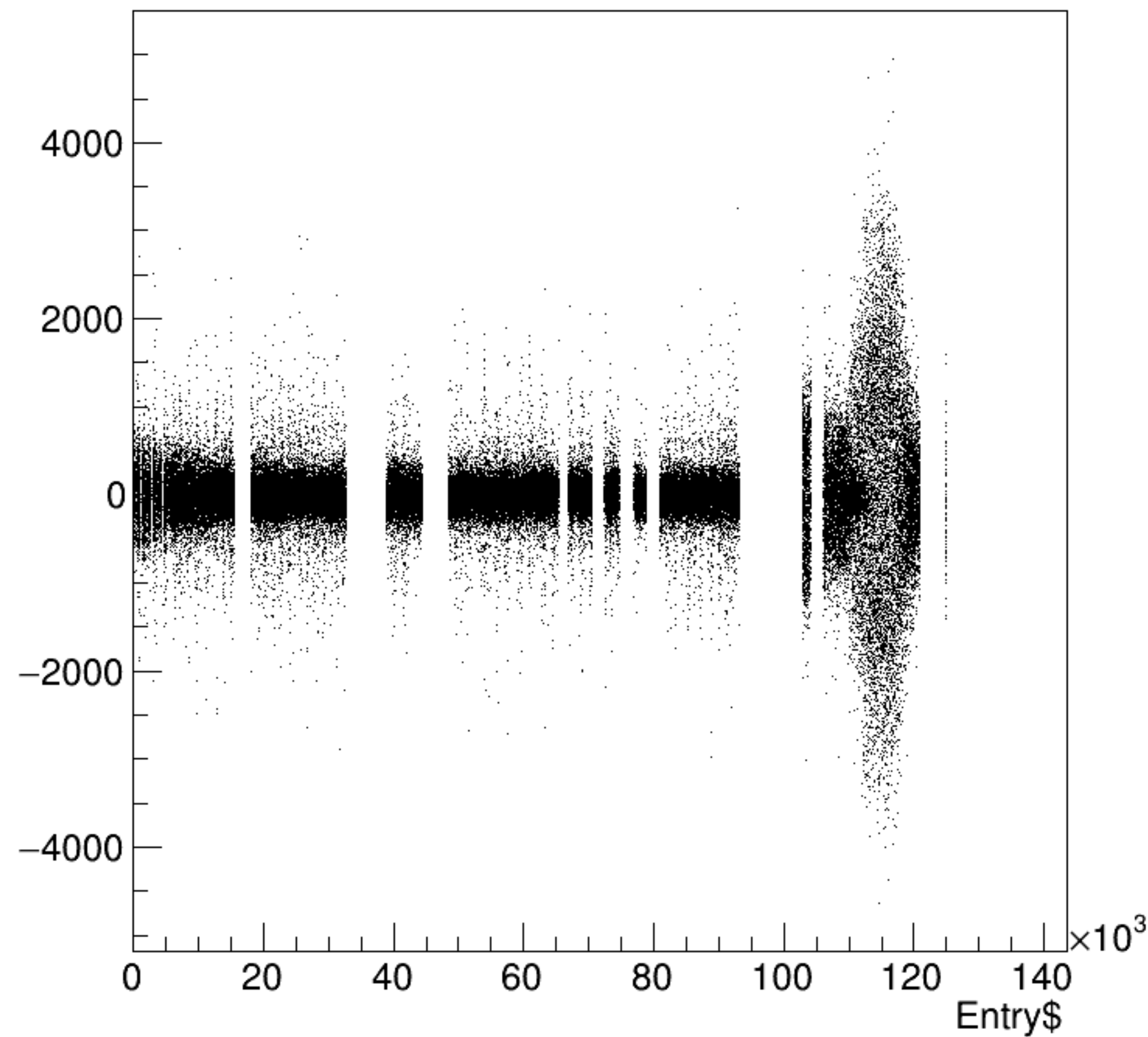
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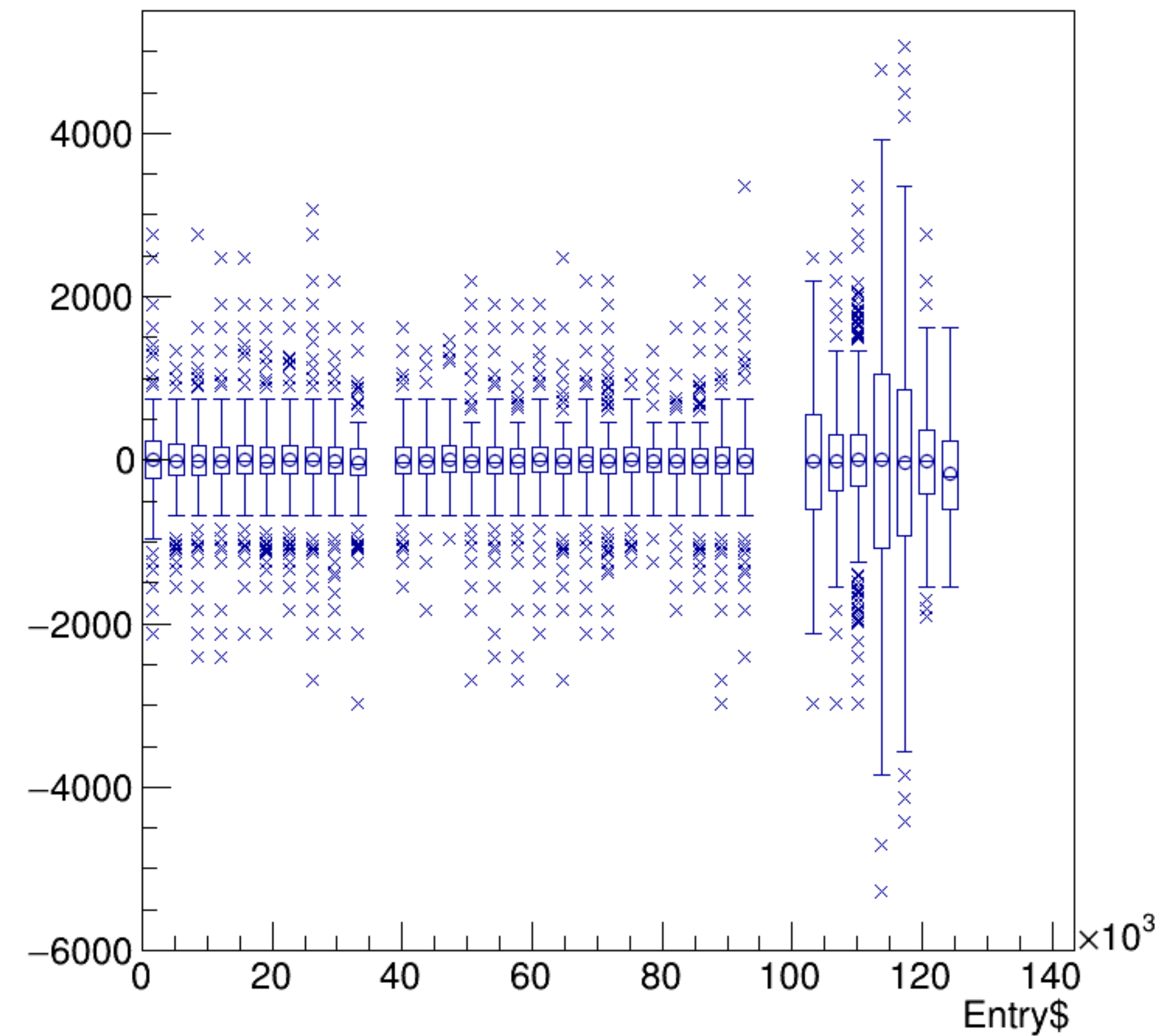
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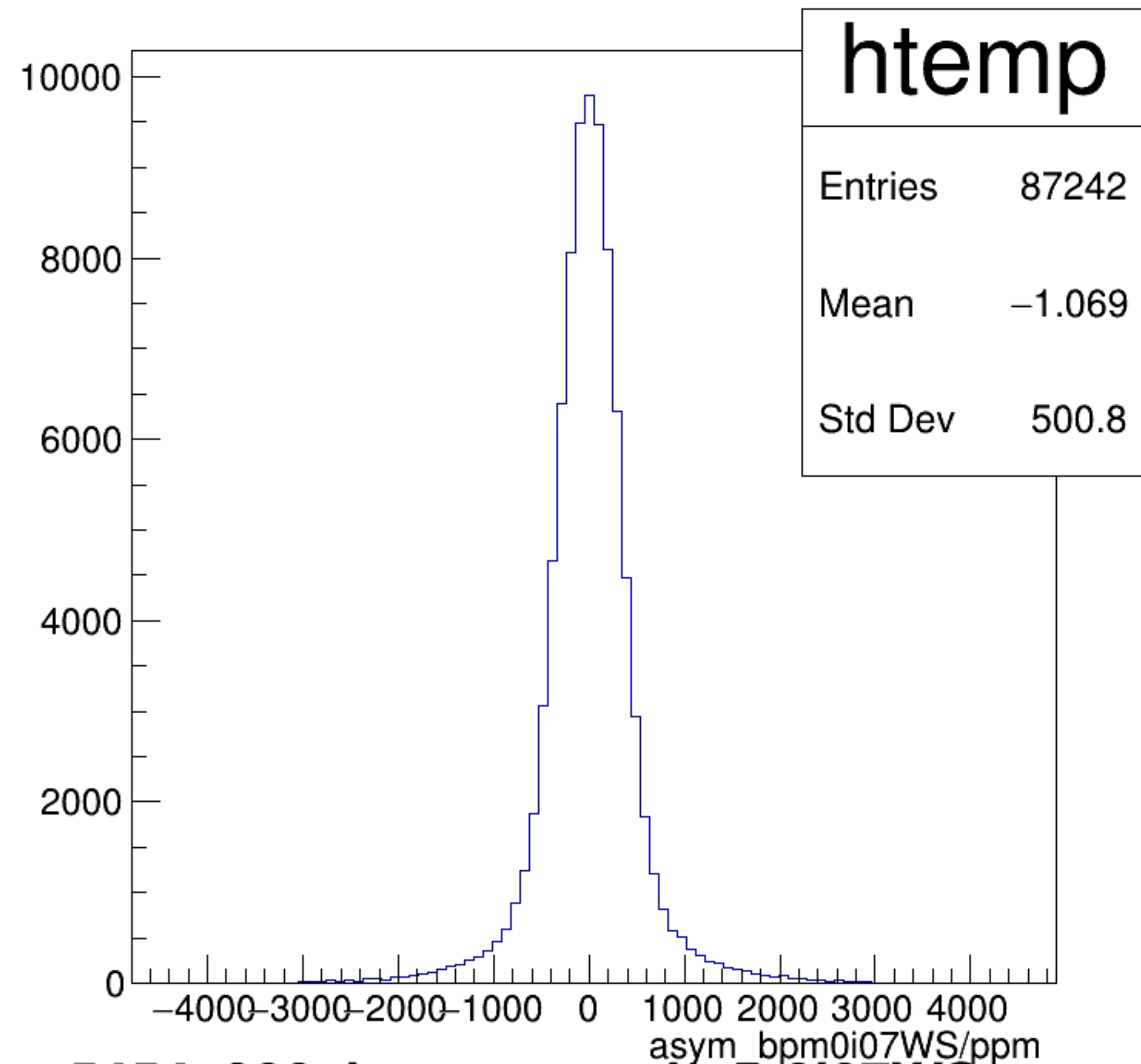
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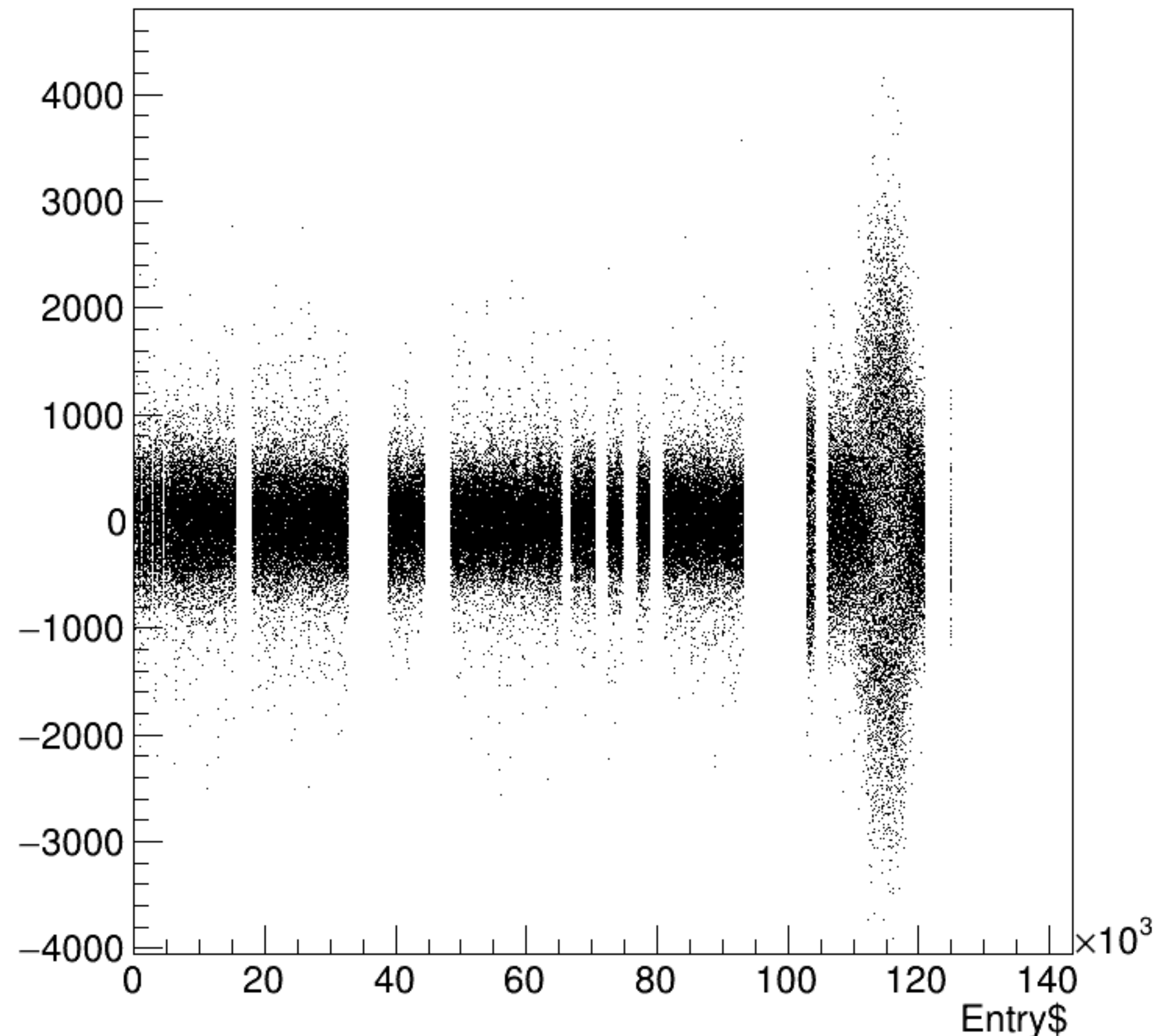


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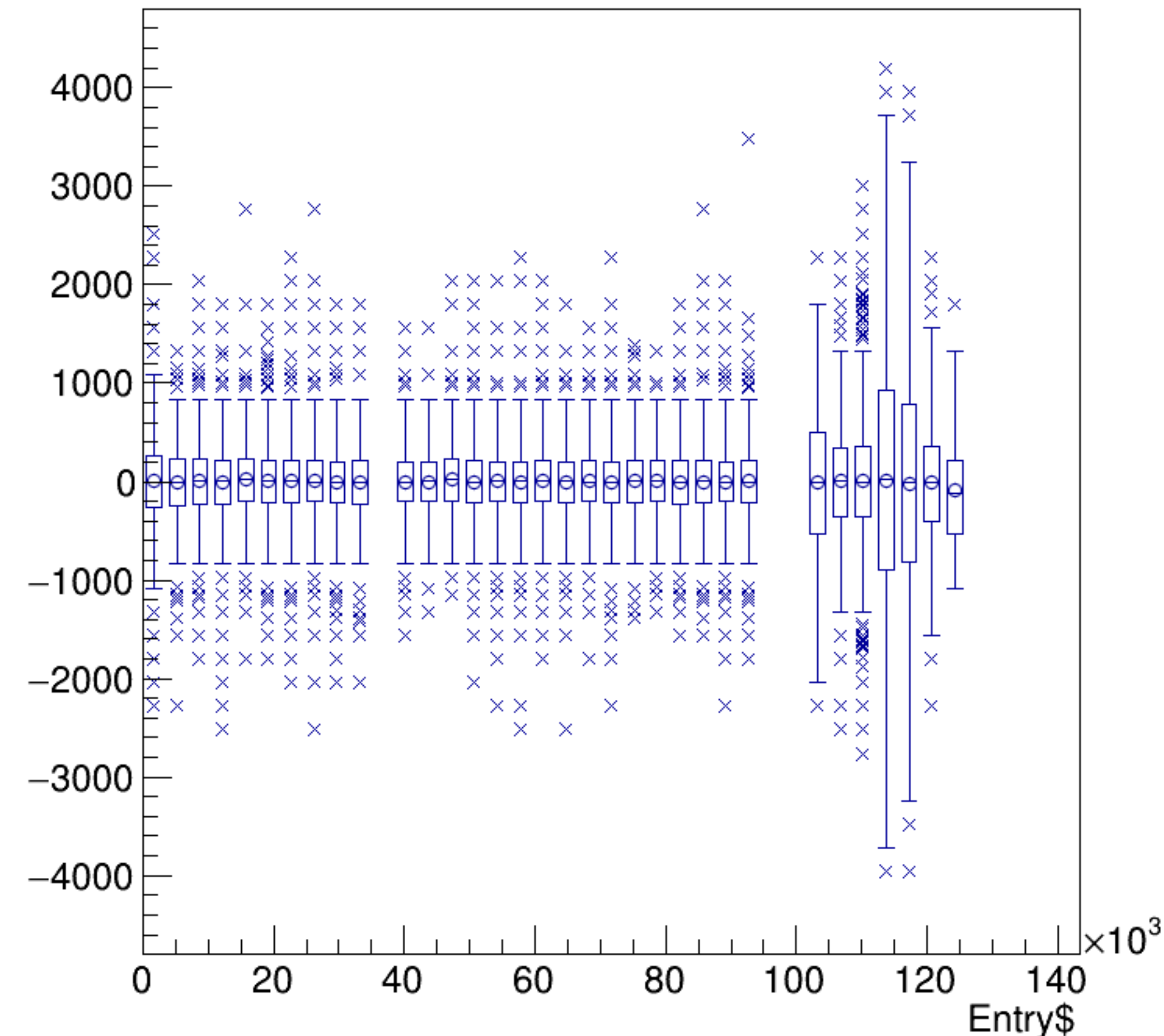


run5454_000_bpm_asym_bpm0i07WS.png

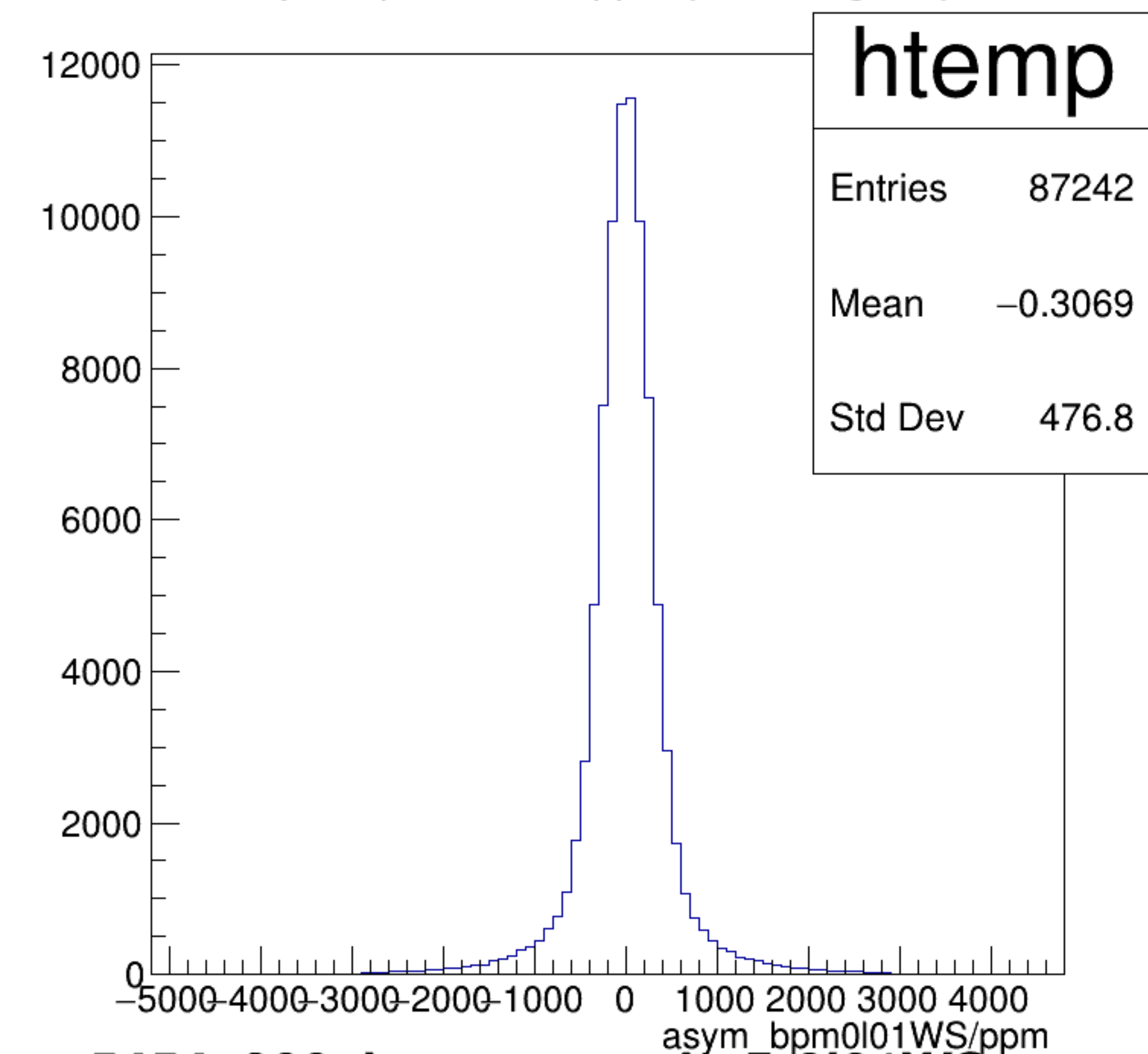
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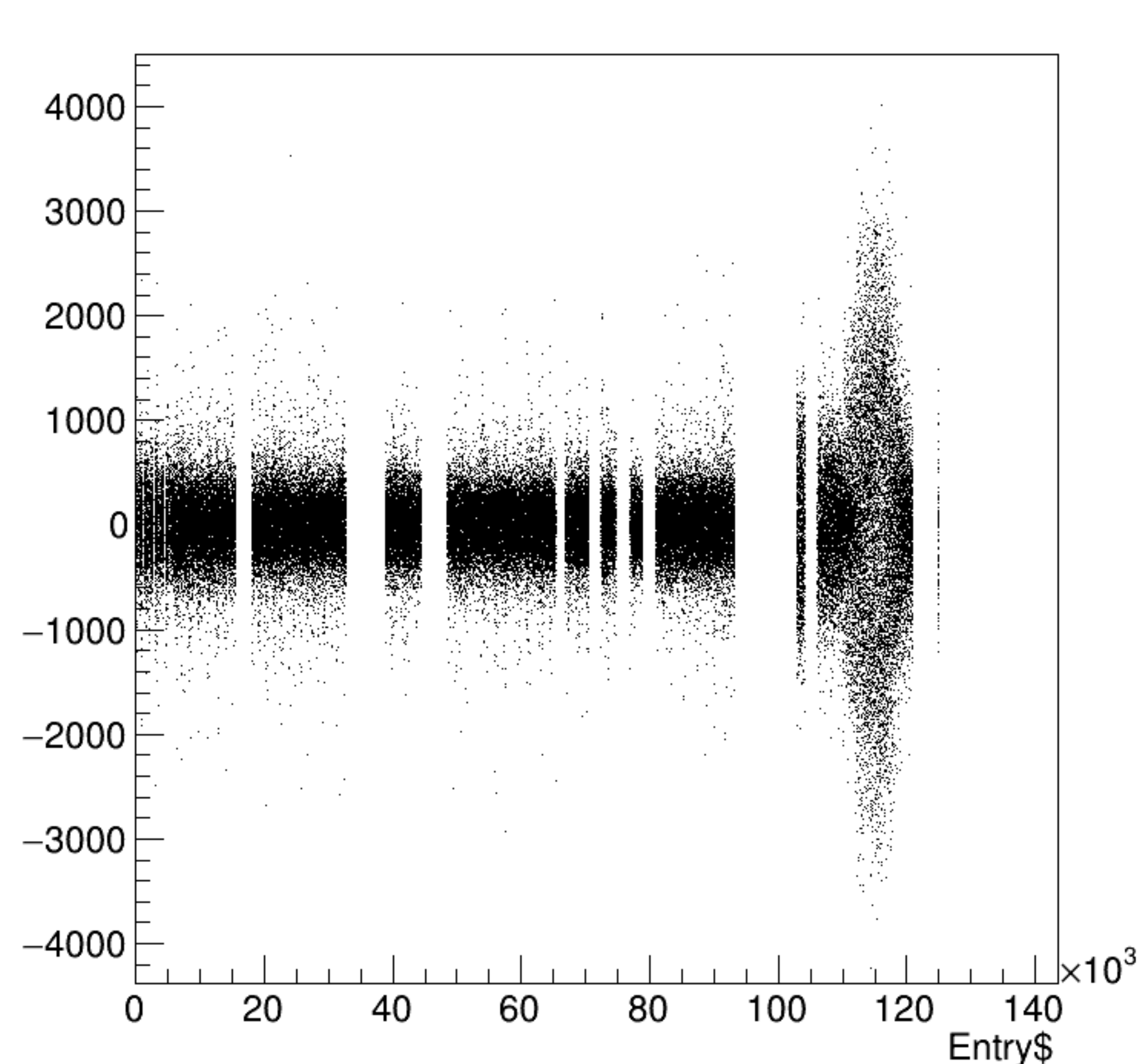


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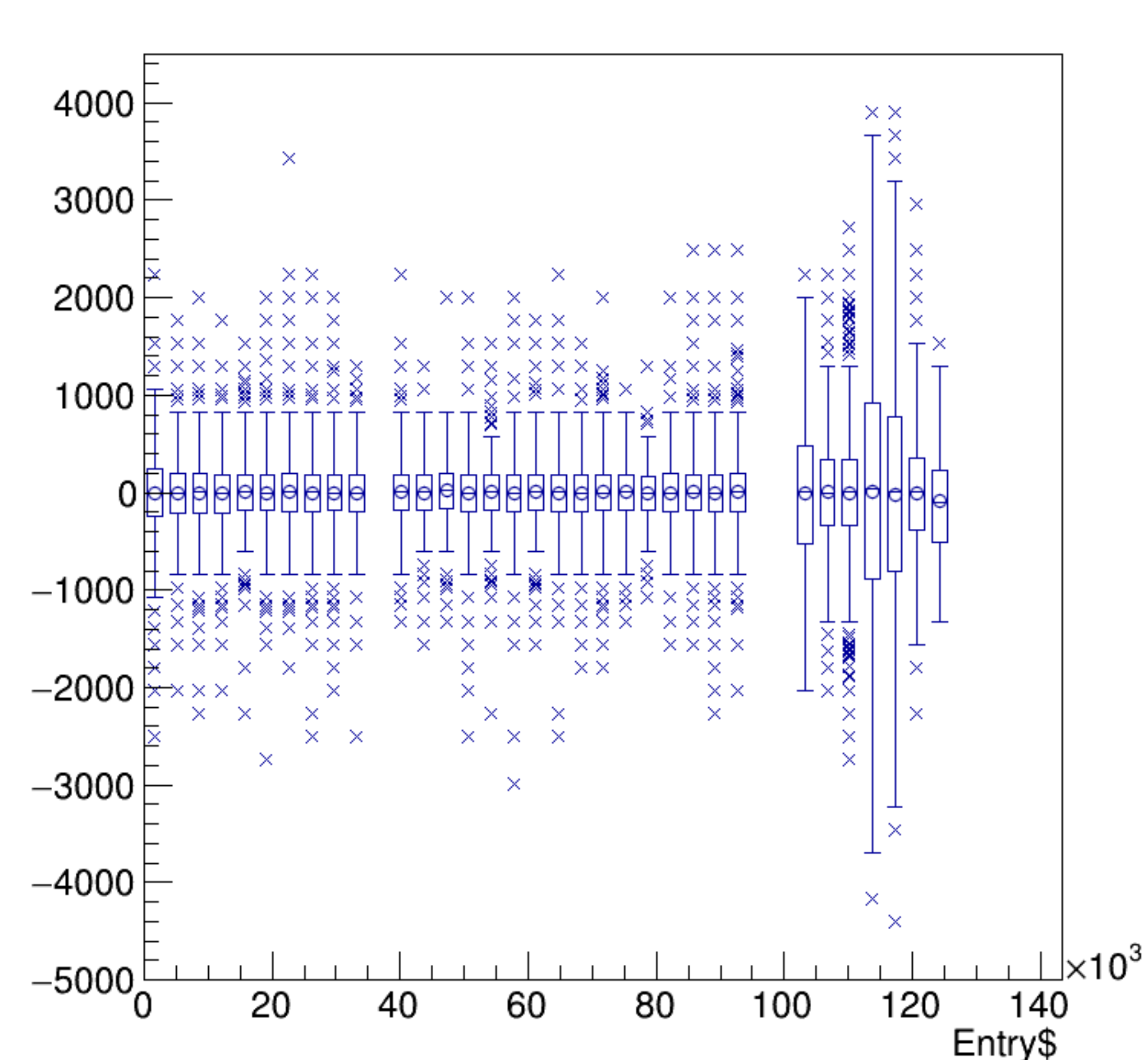


run5454_000_bpm_asym_bpm0l01WS.png

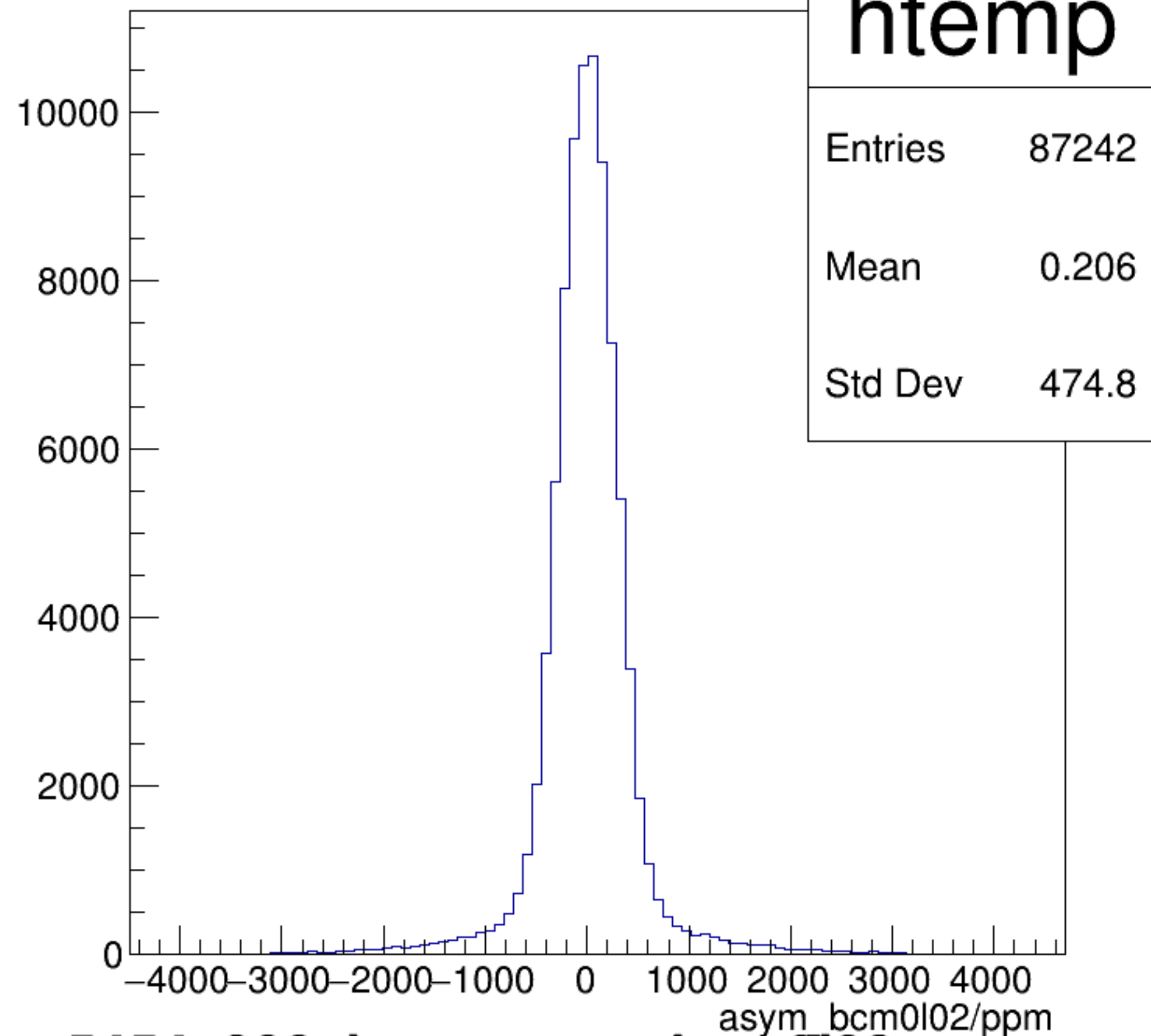
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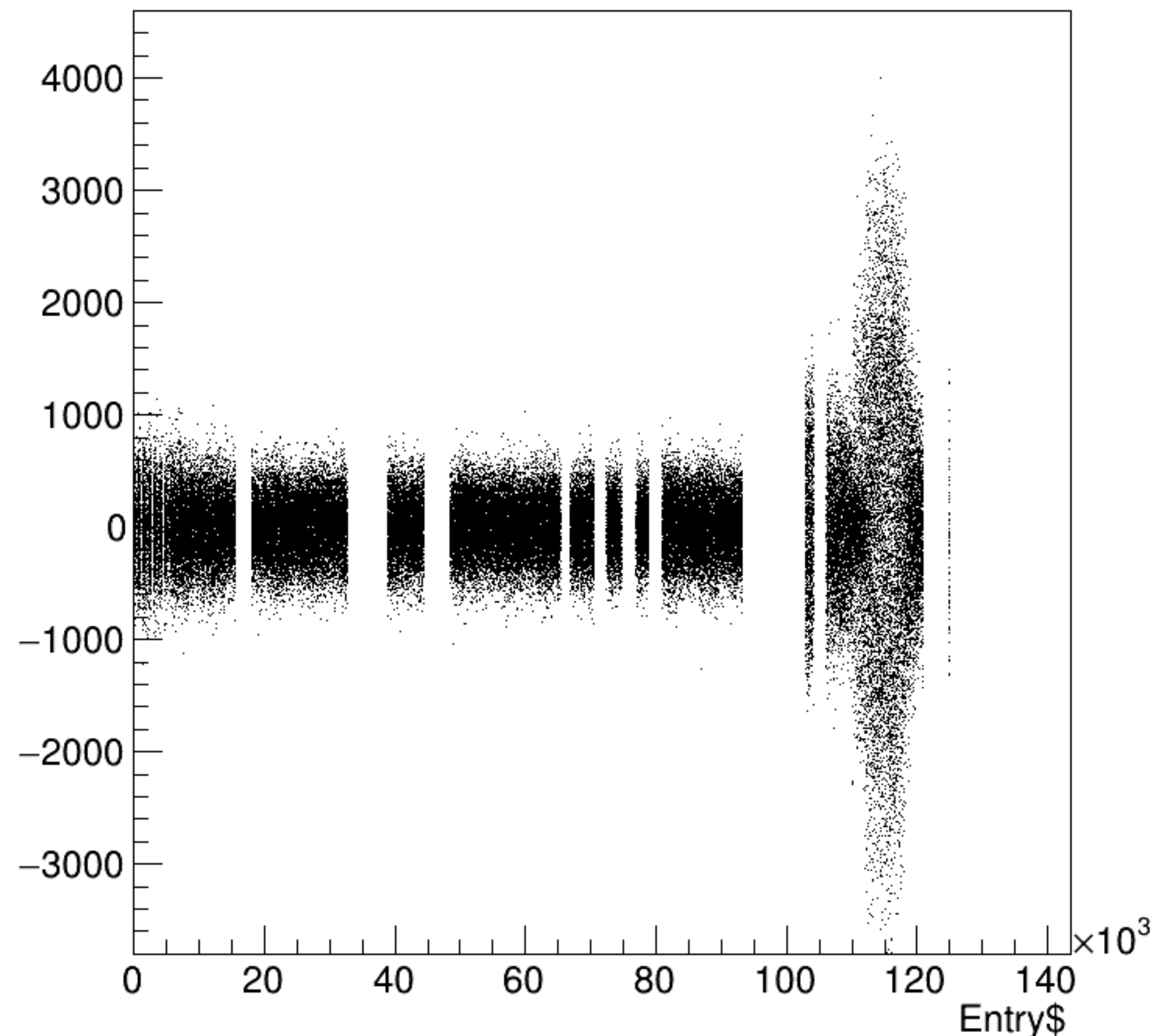
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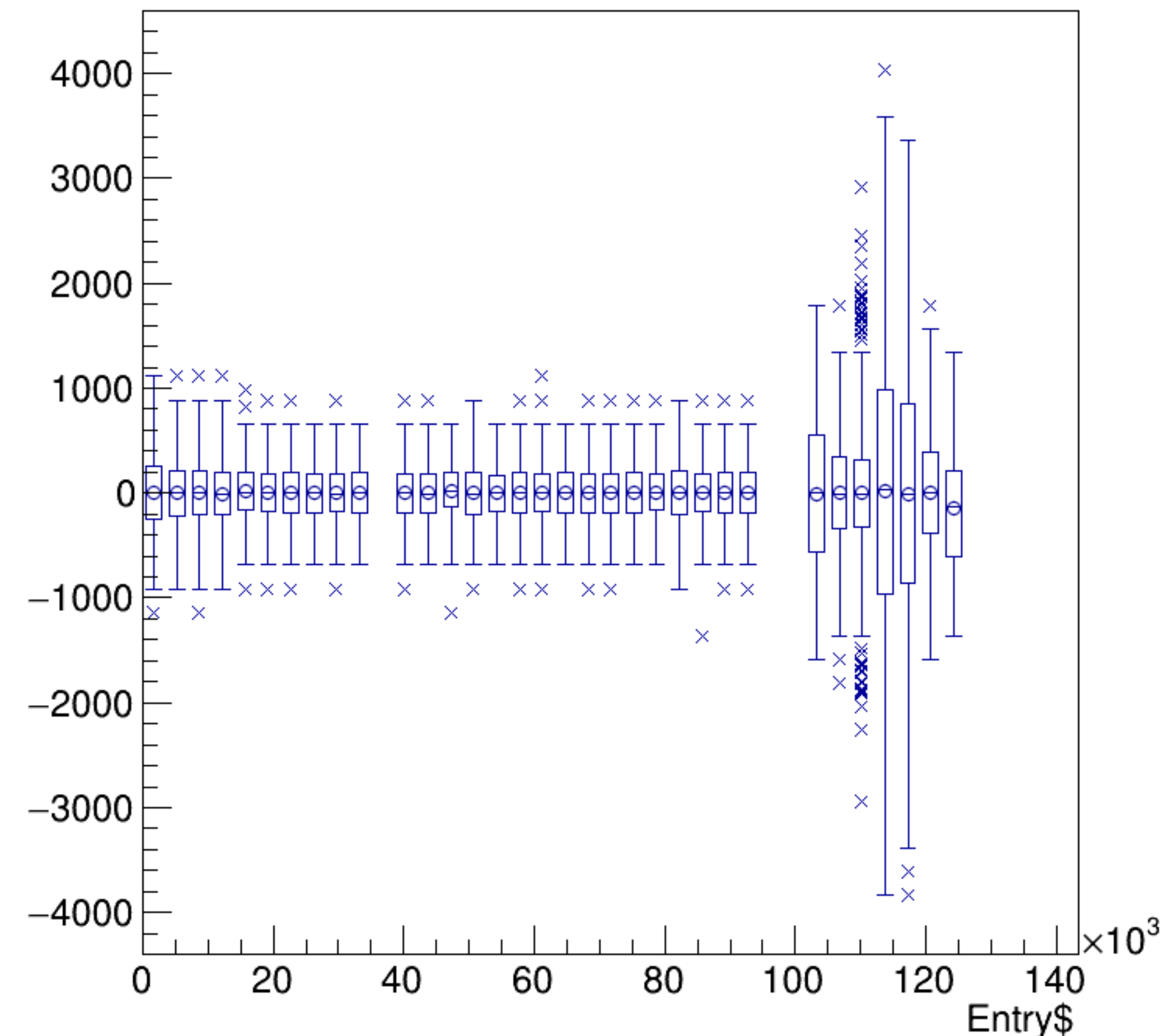
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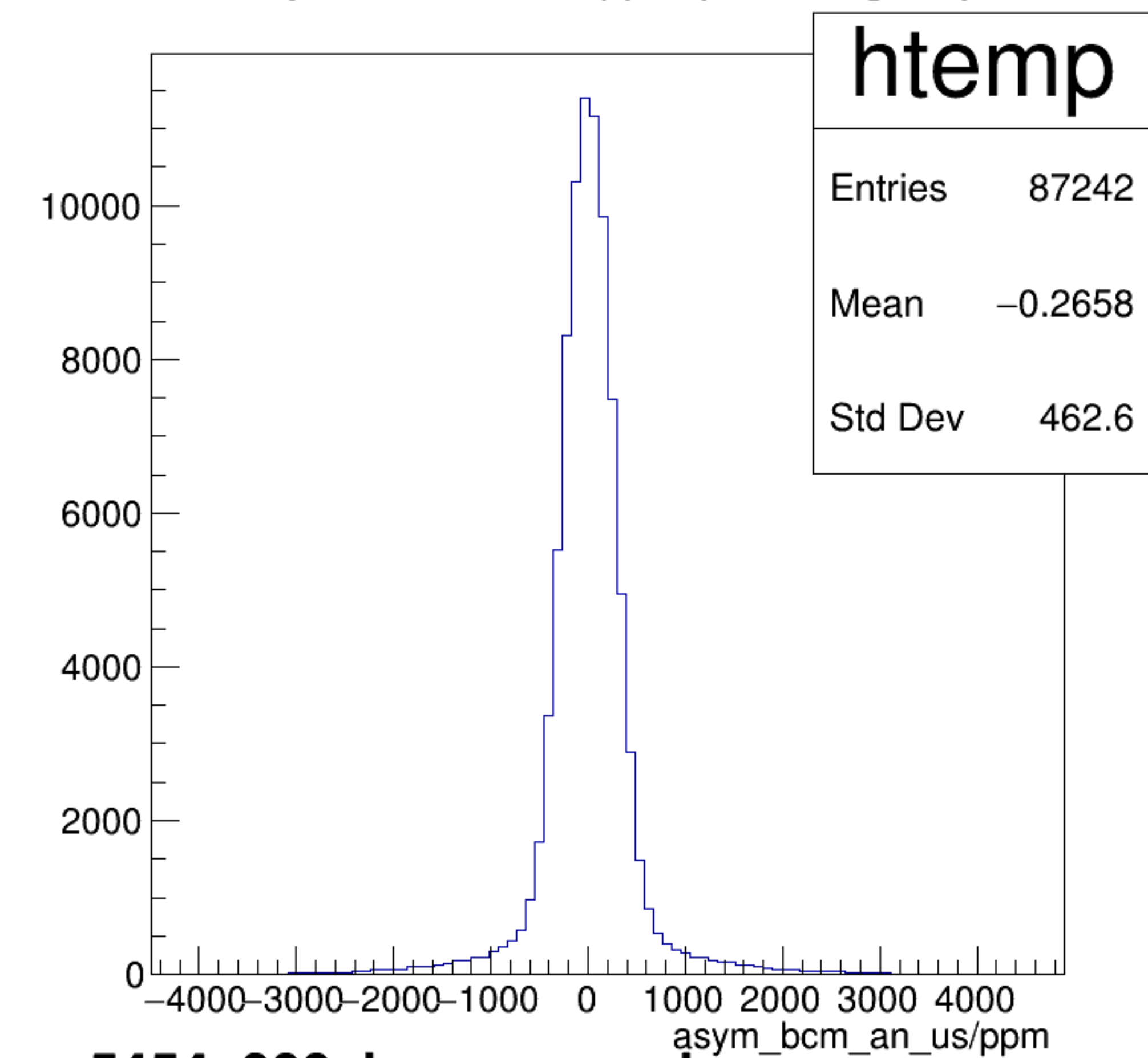
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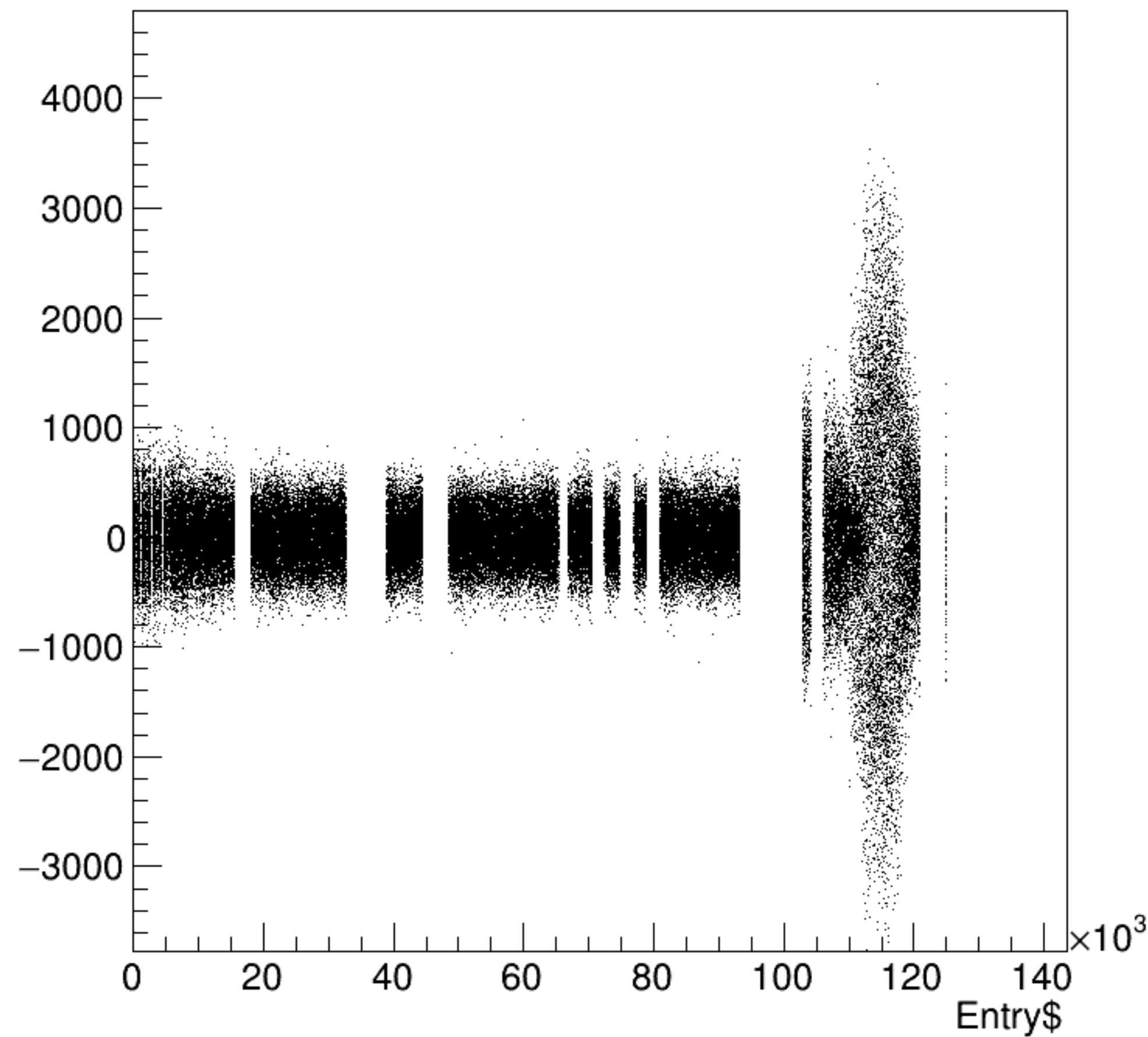
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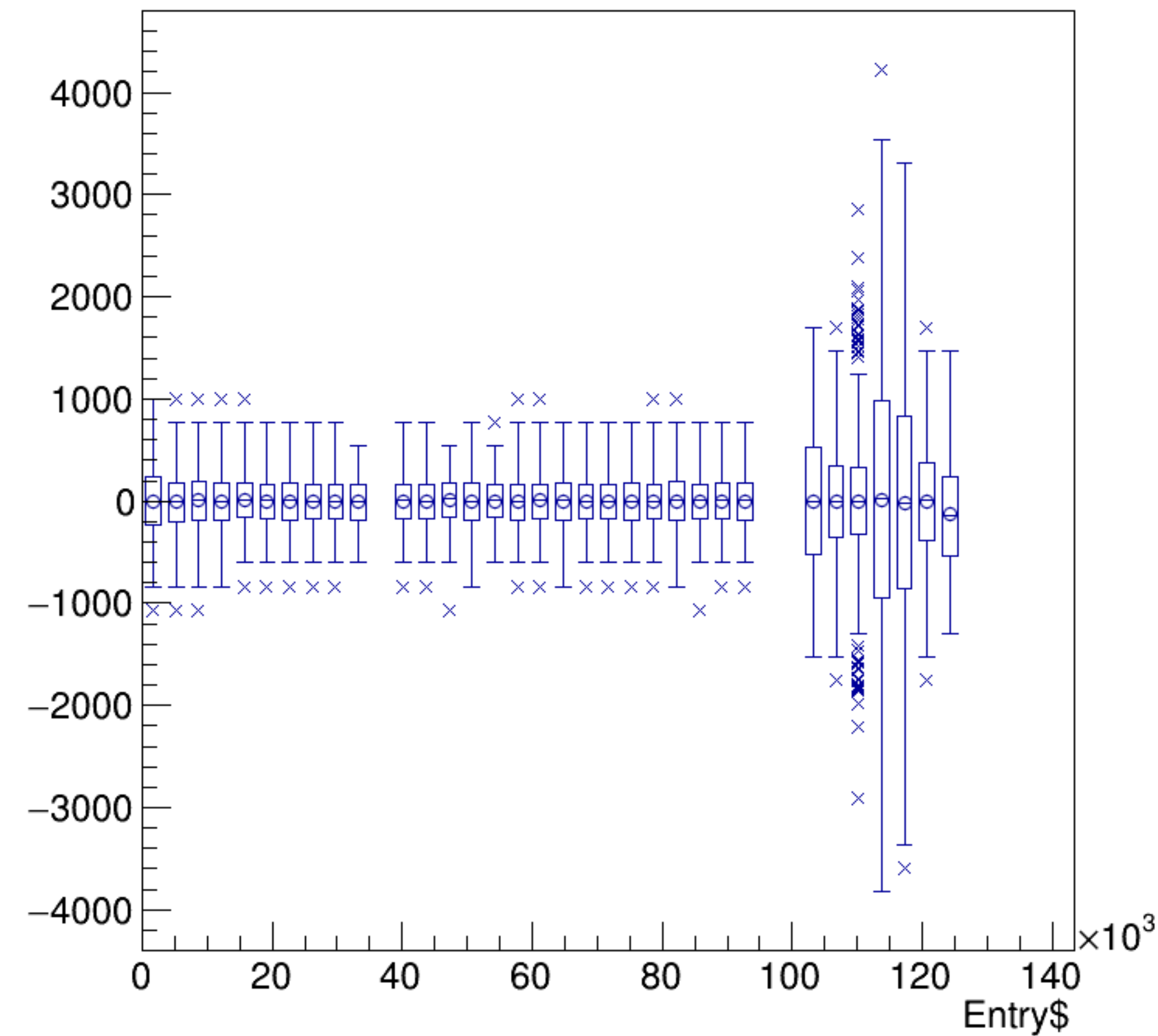
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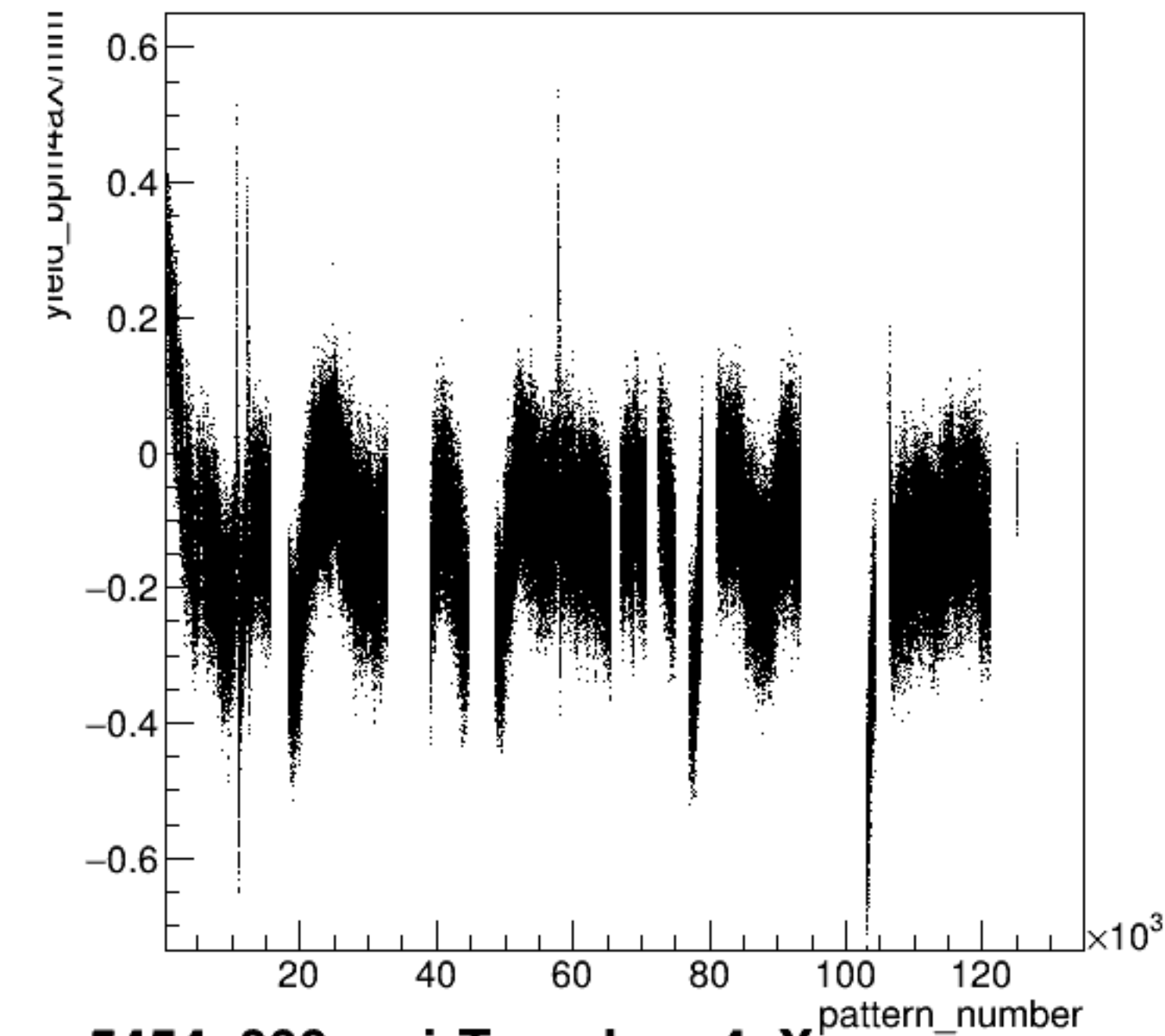
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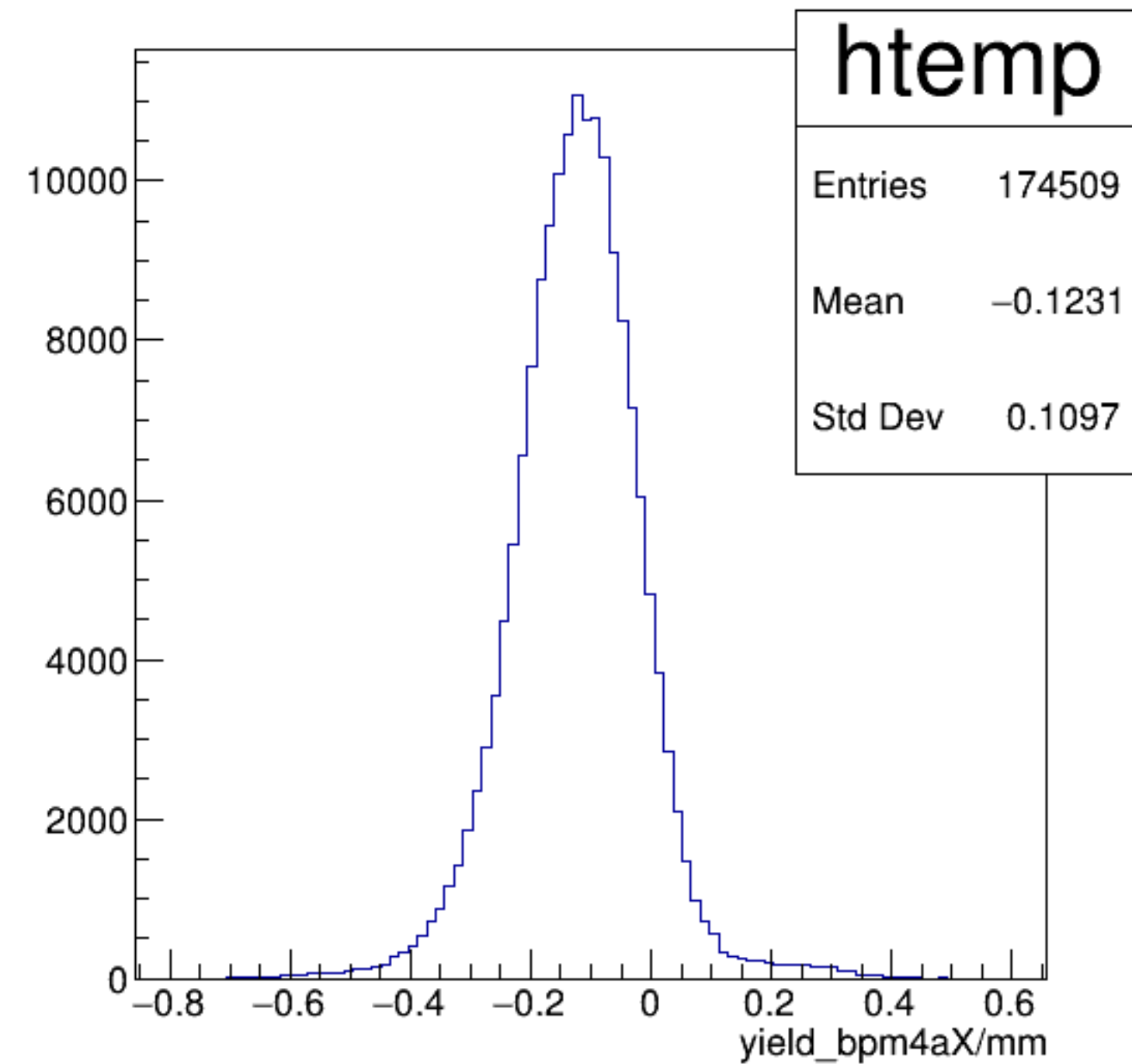
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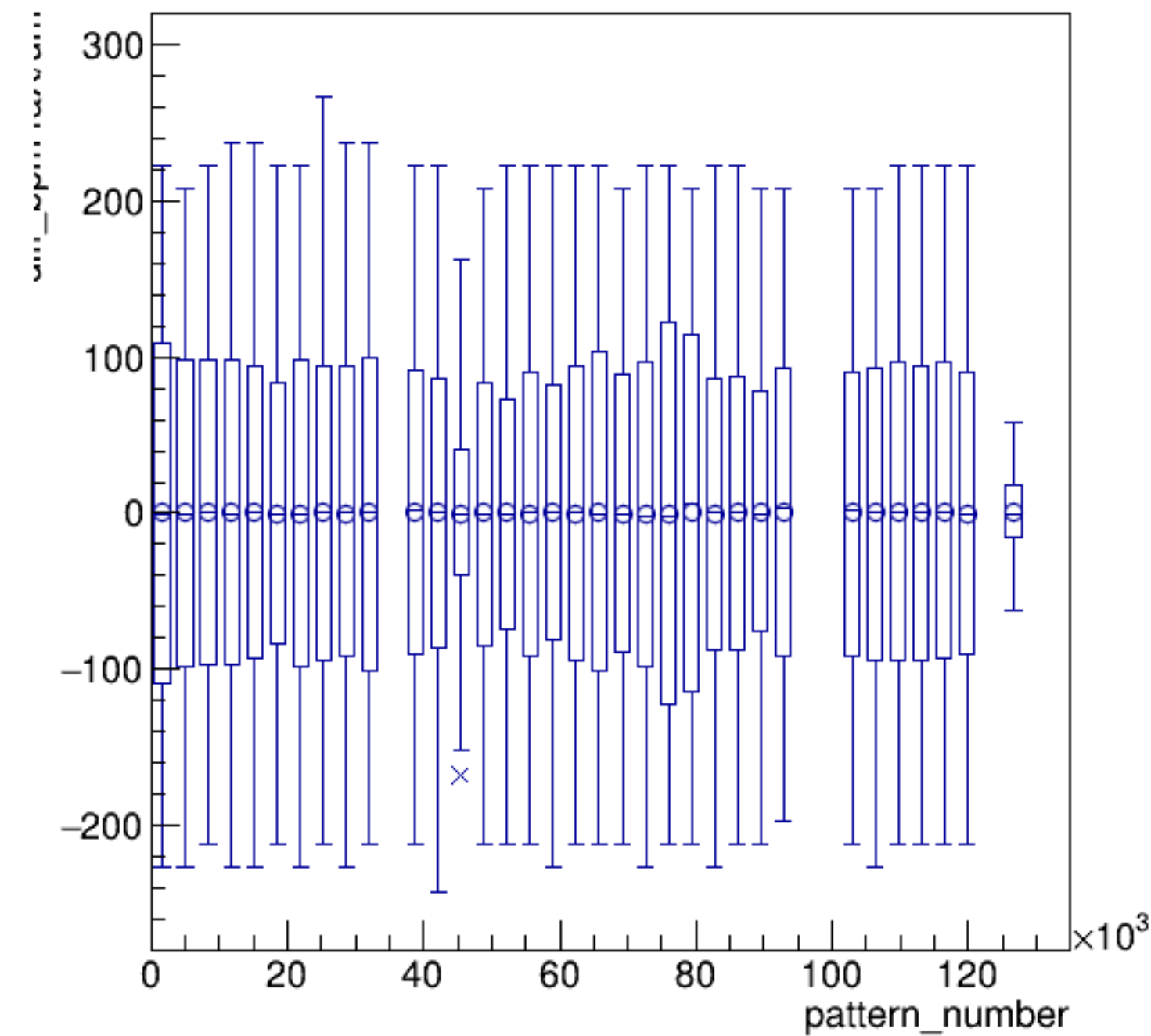
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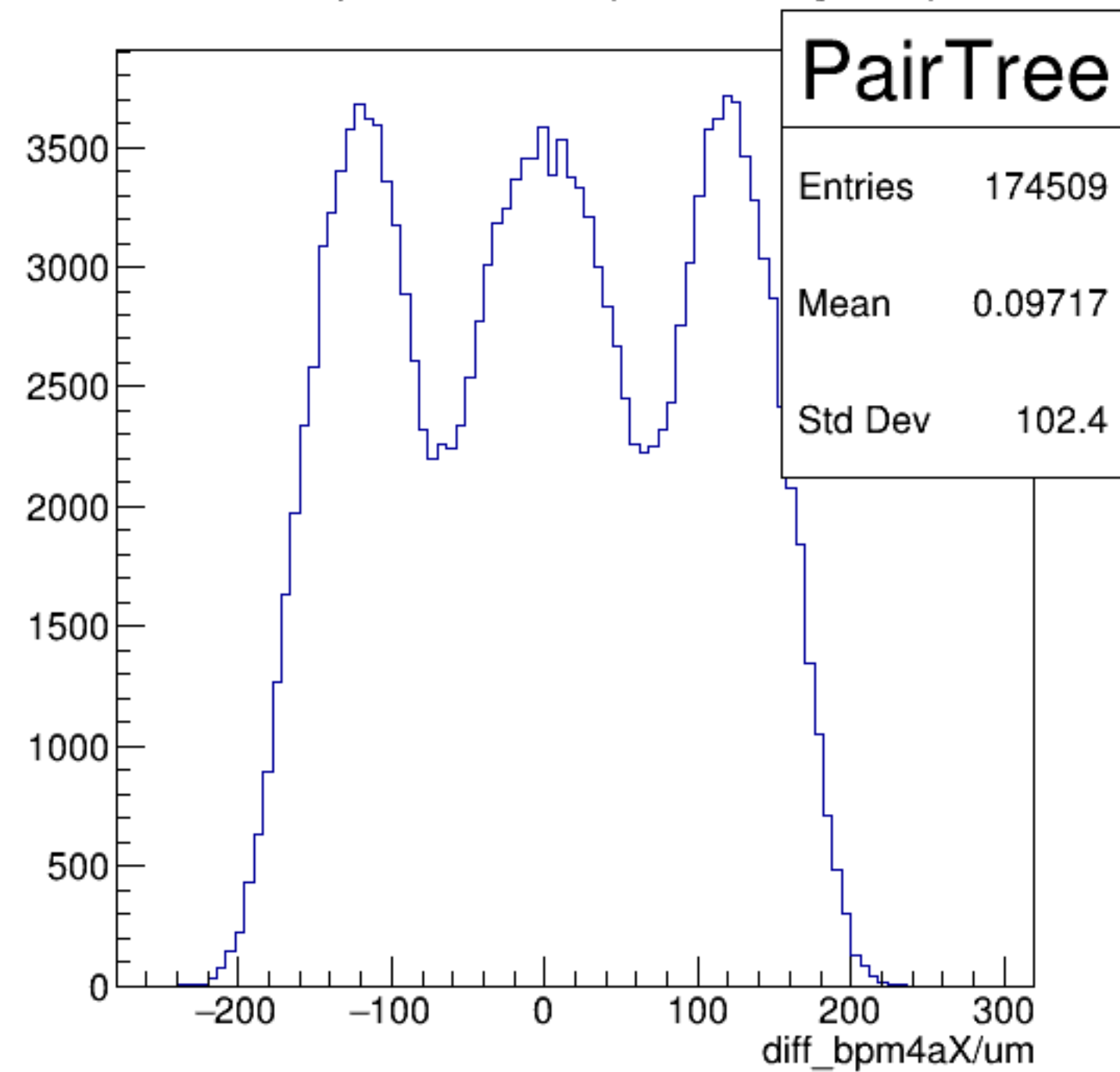
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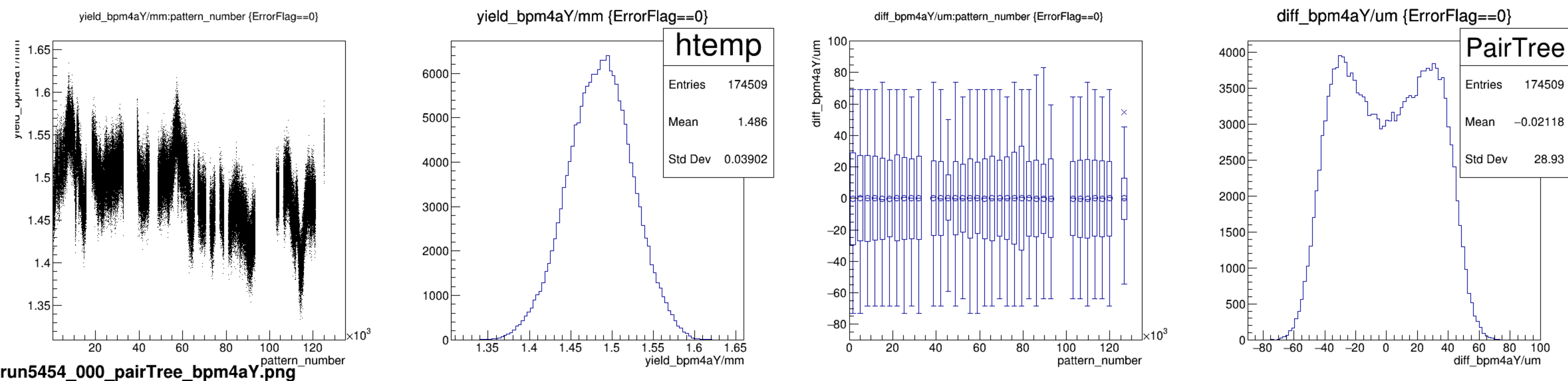


diff_bpm4aX/um:pattern_number {ErrorFlag==0}

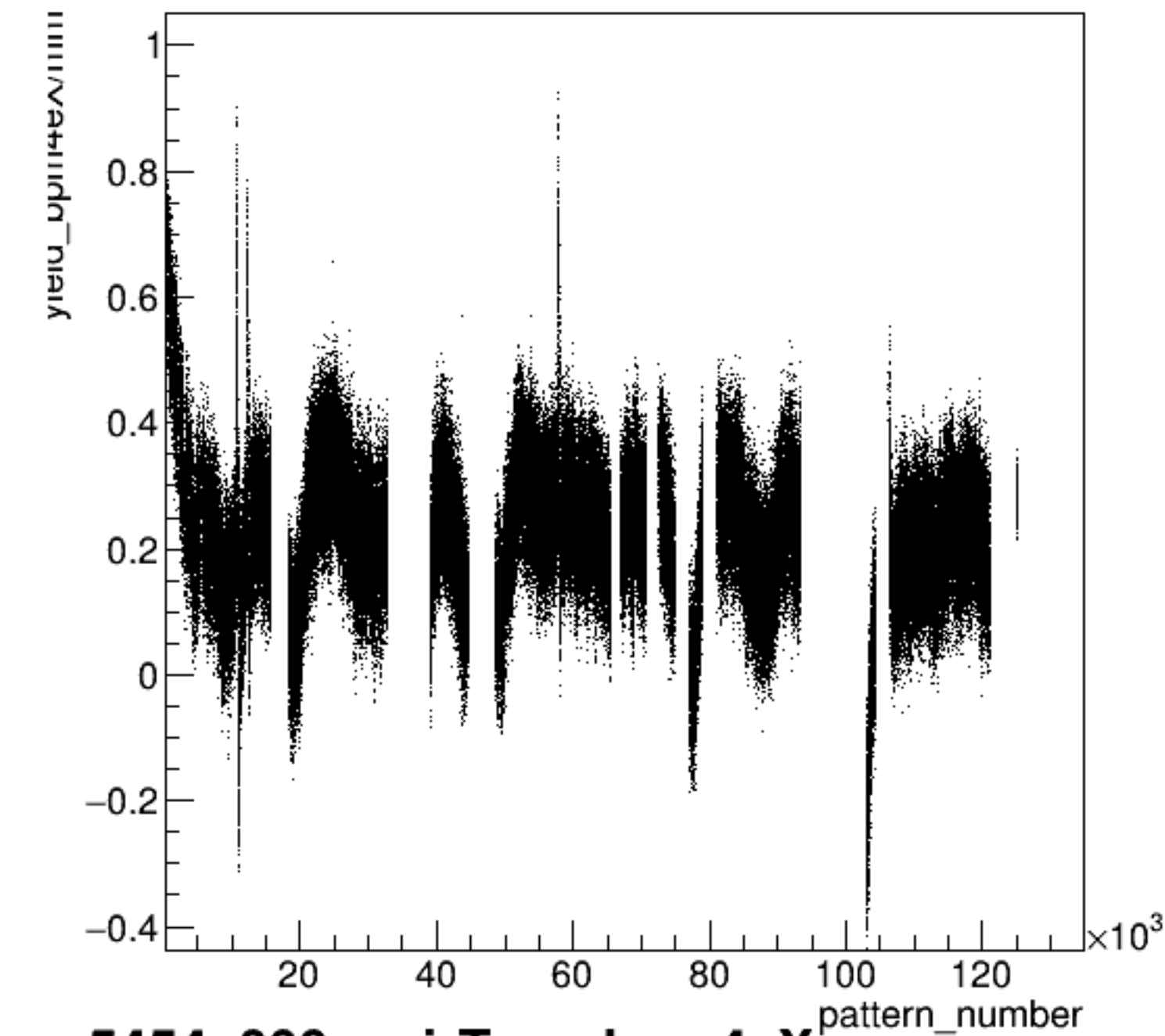


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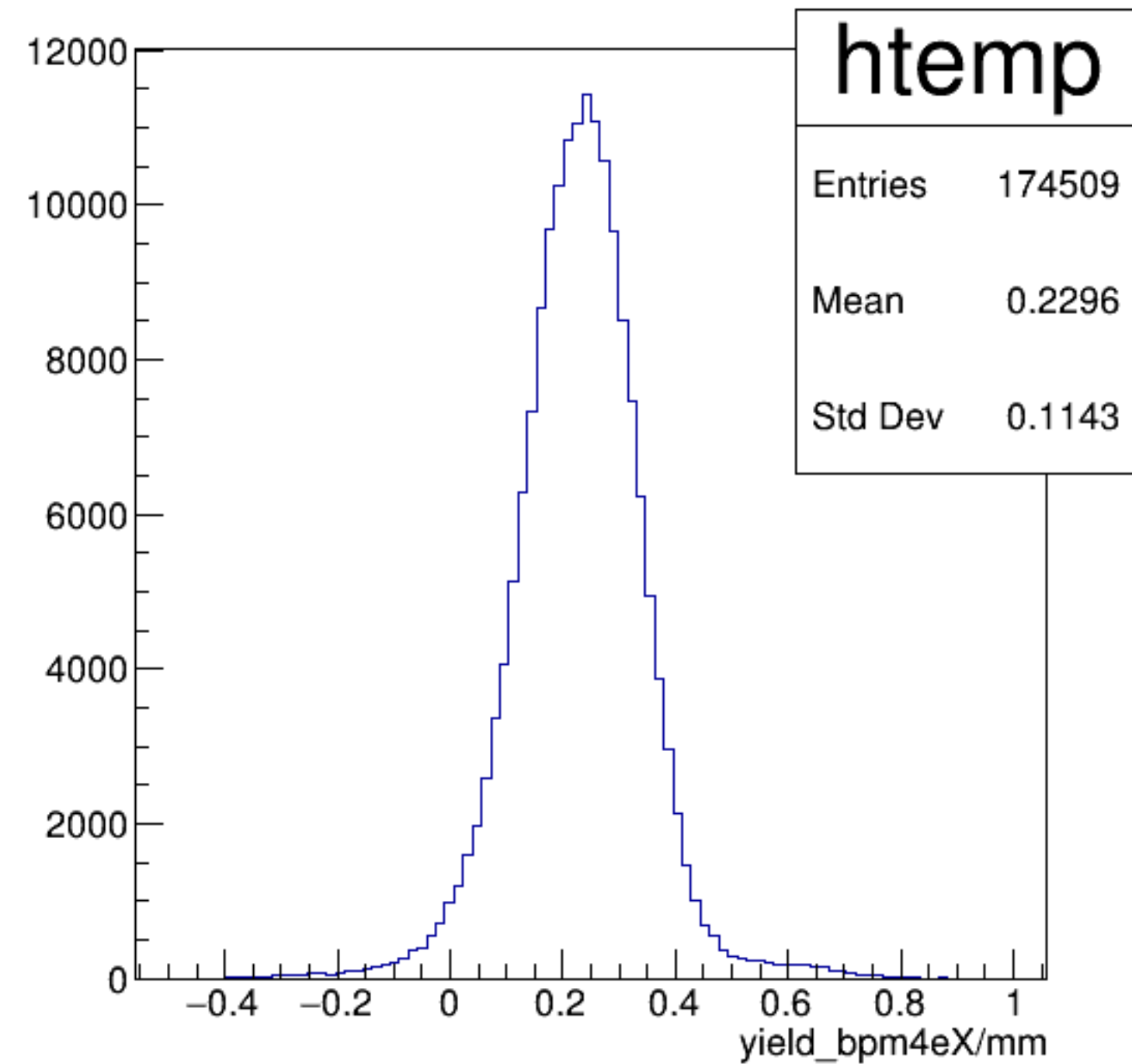




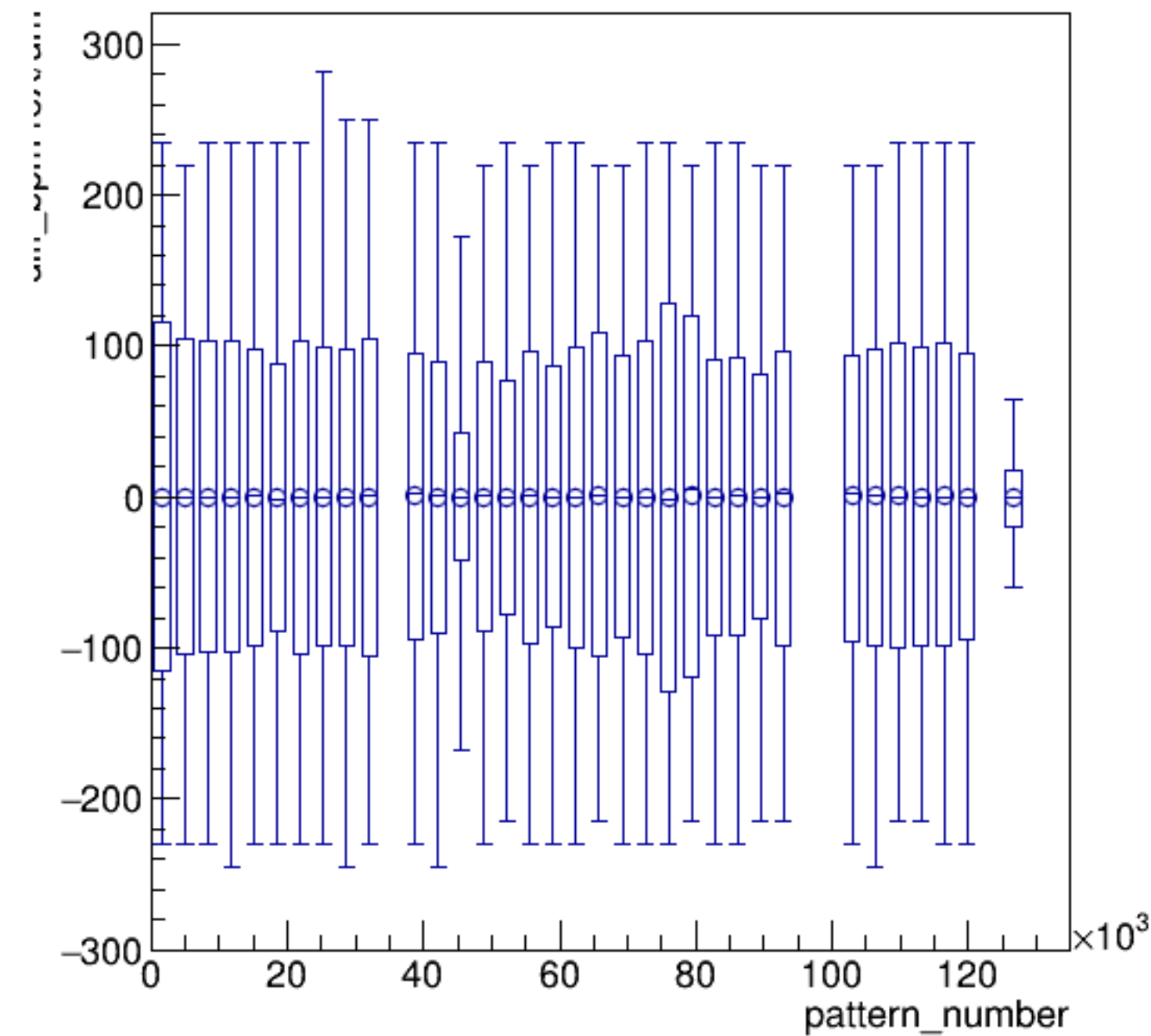
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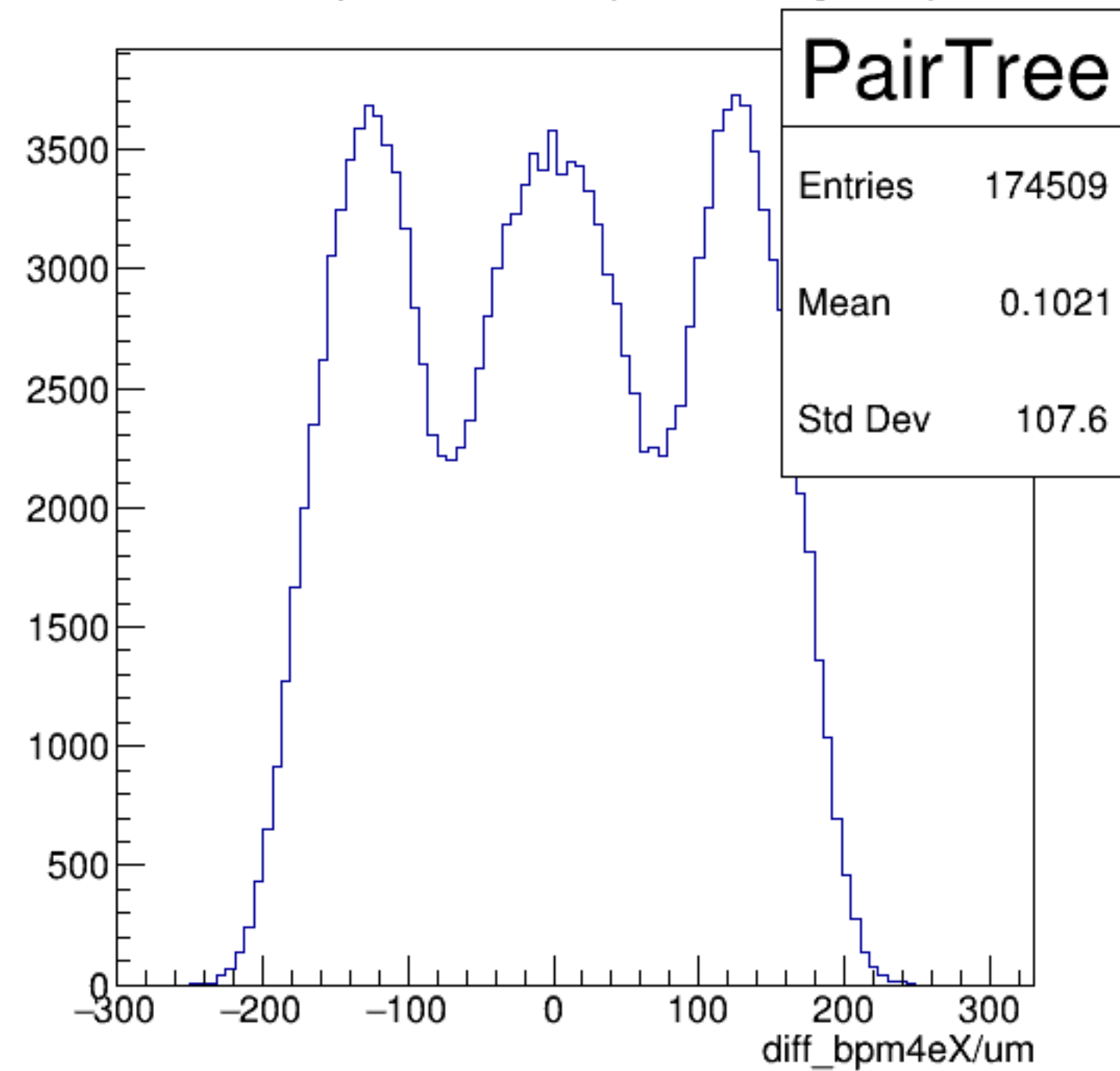
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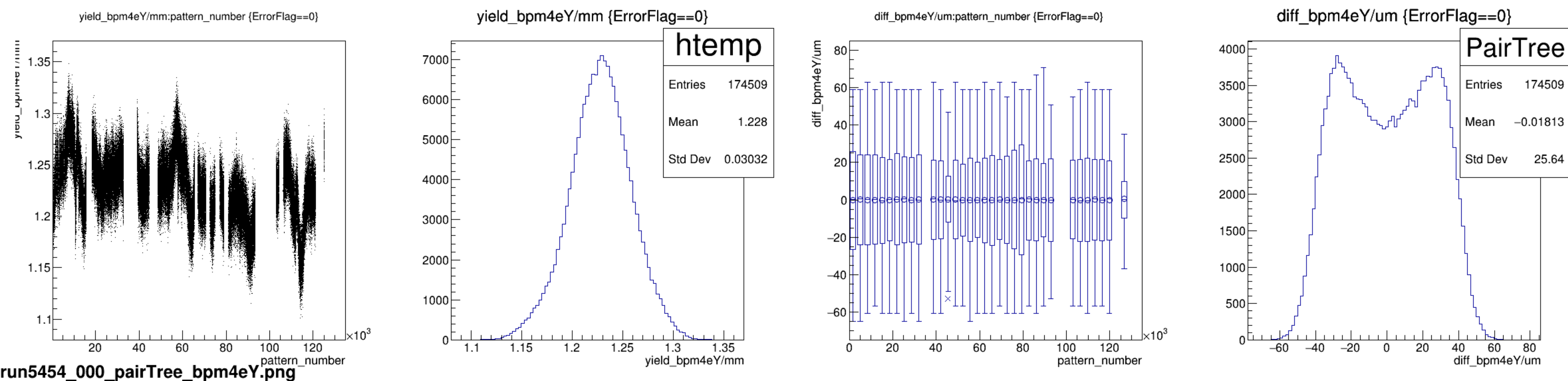


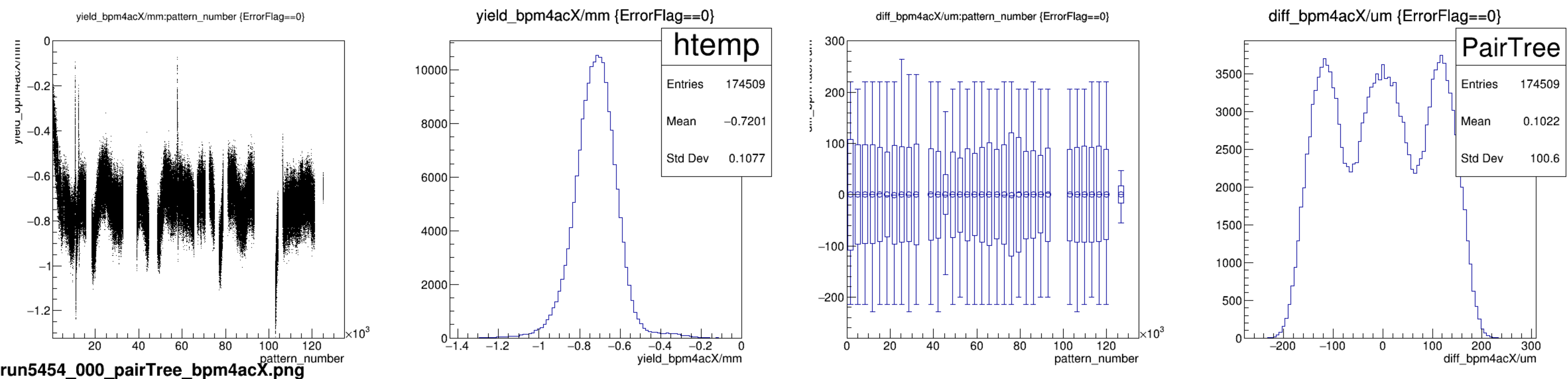
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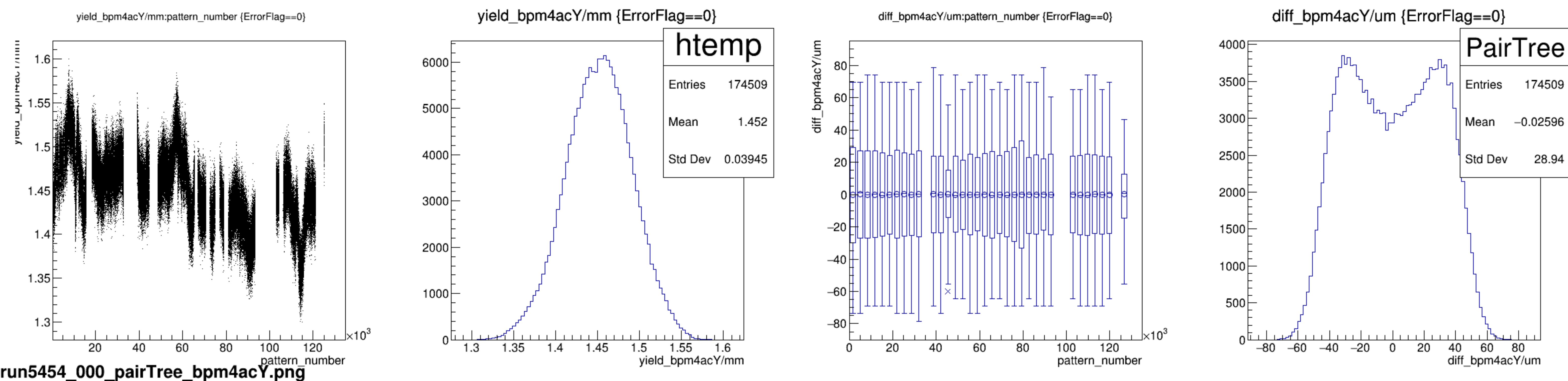


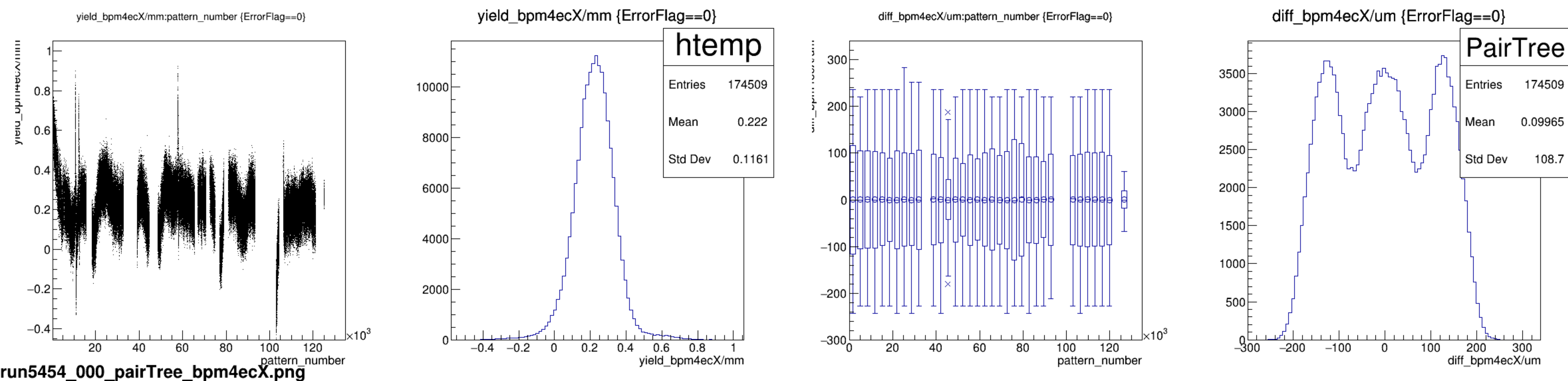
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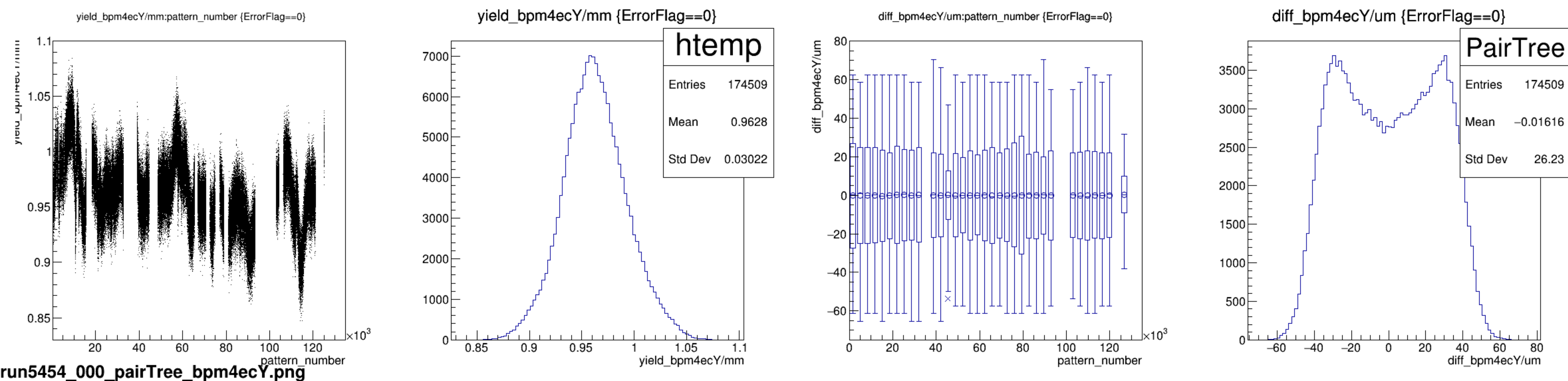




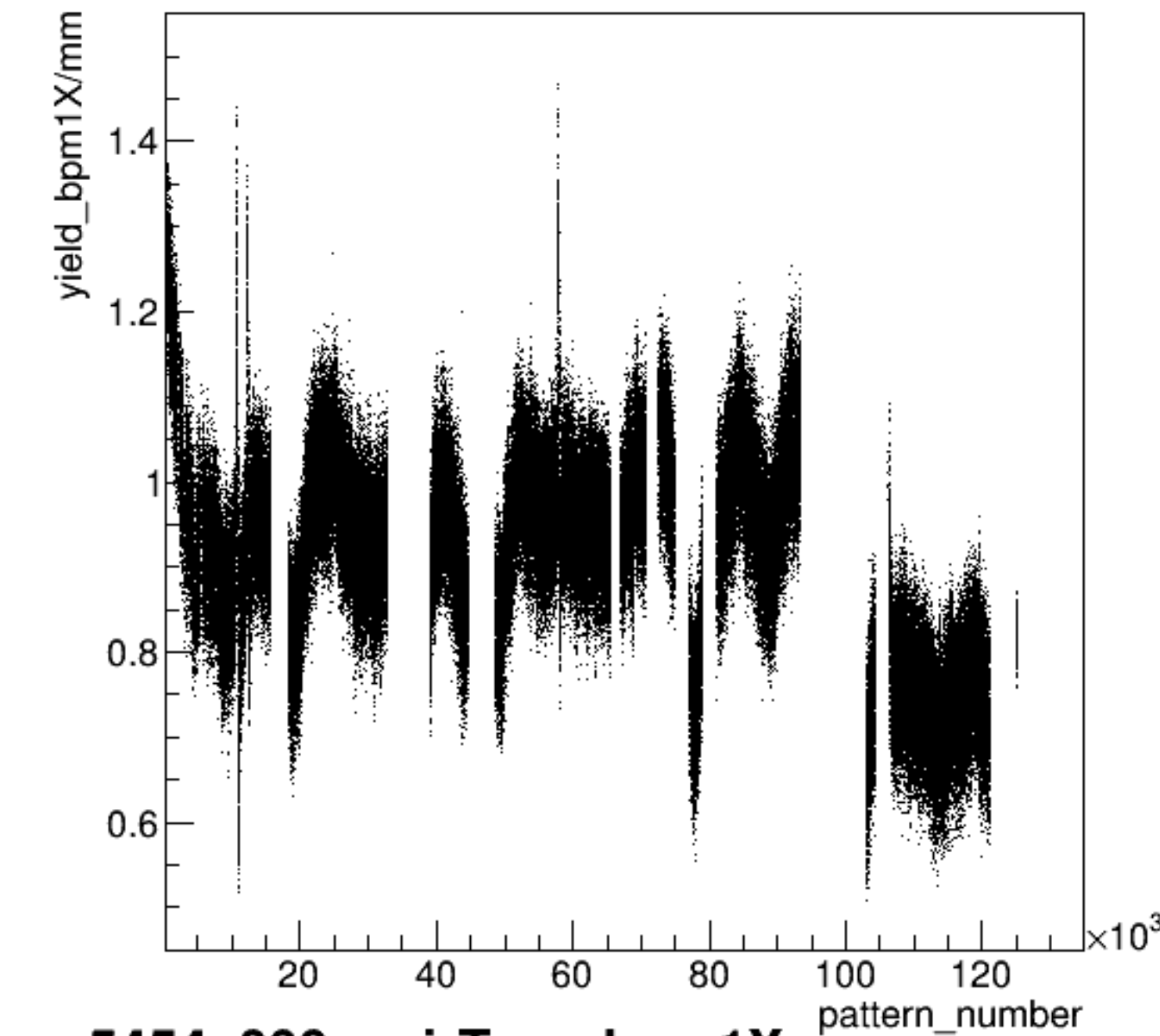




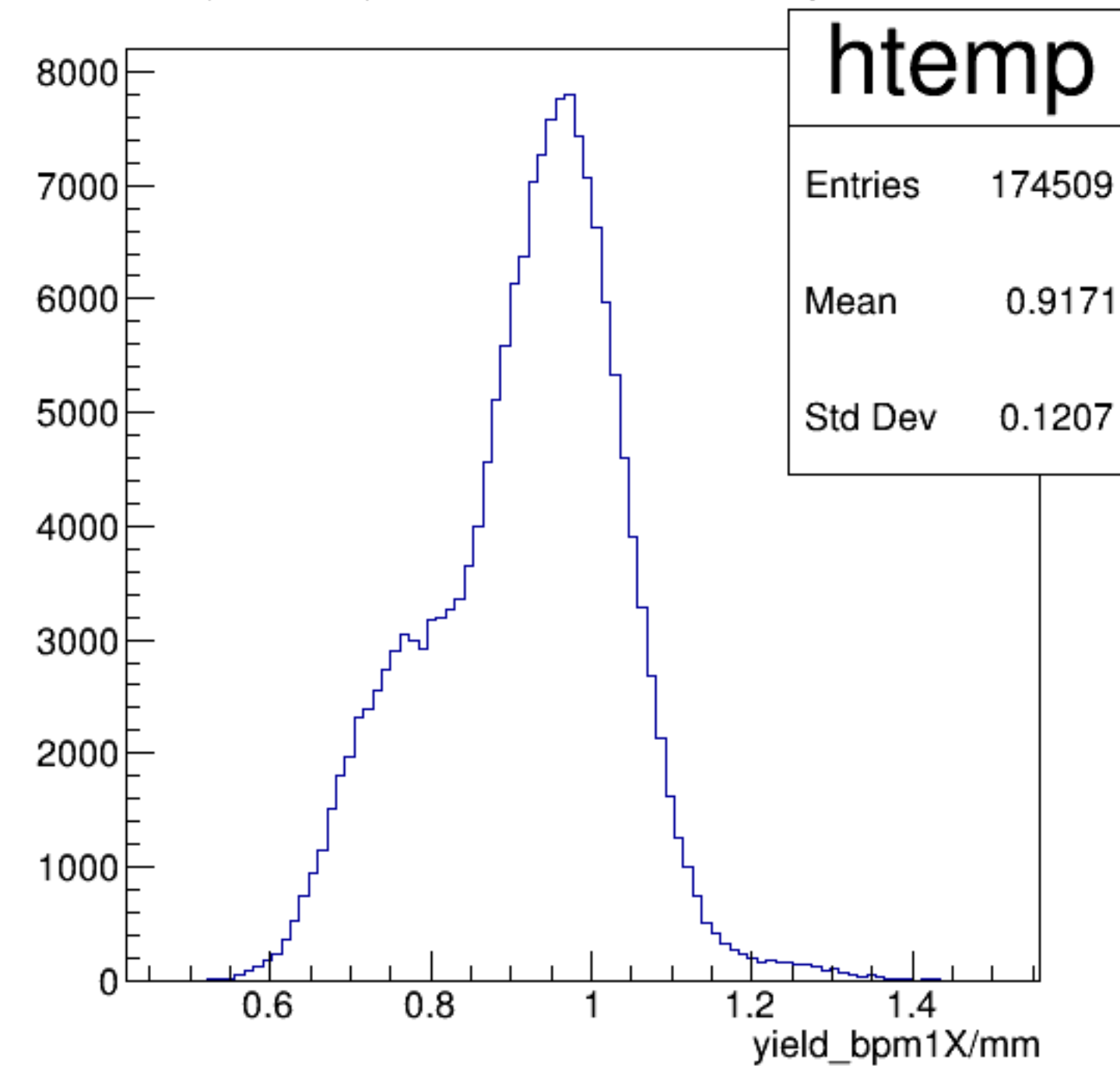




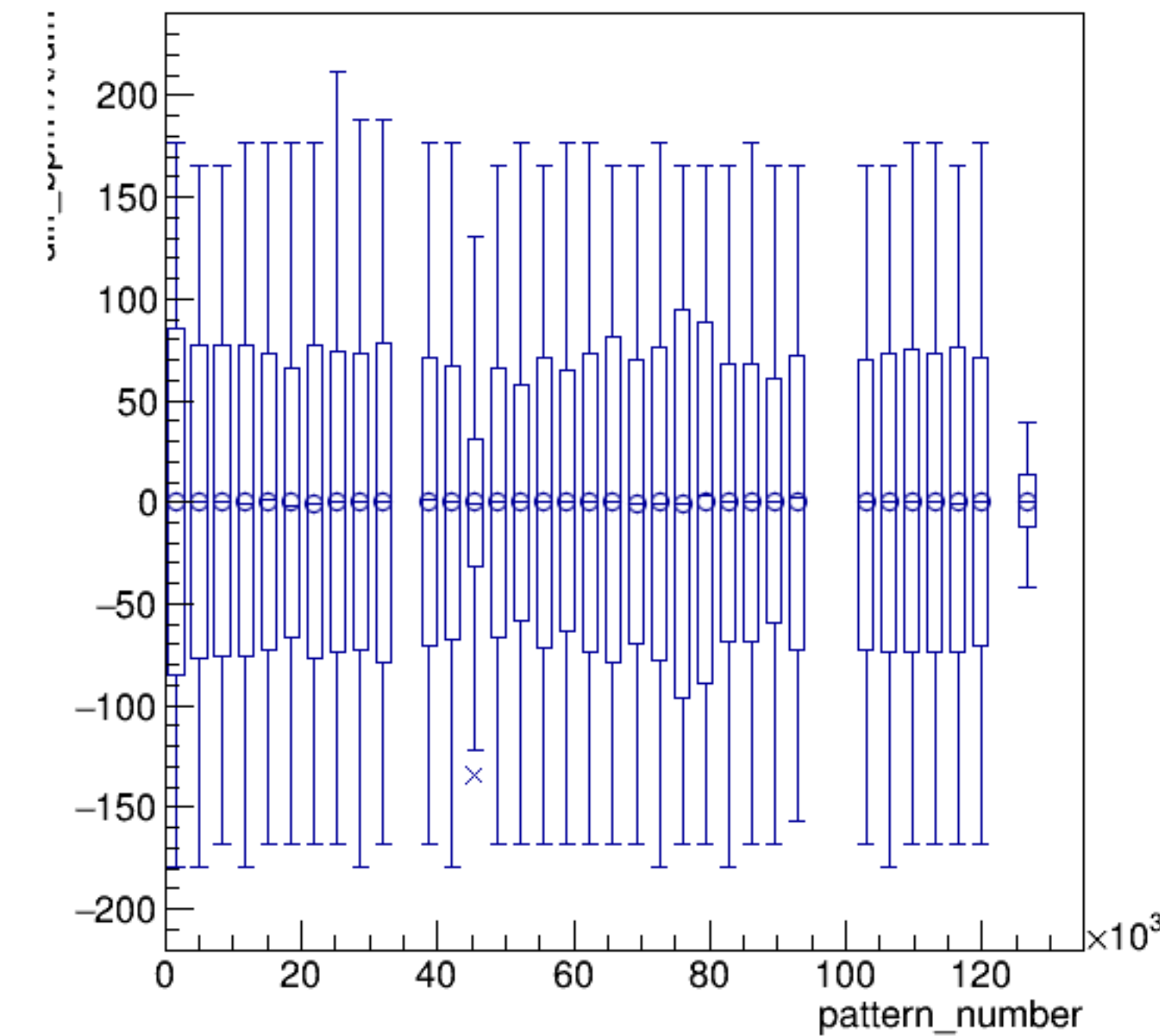
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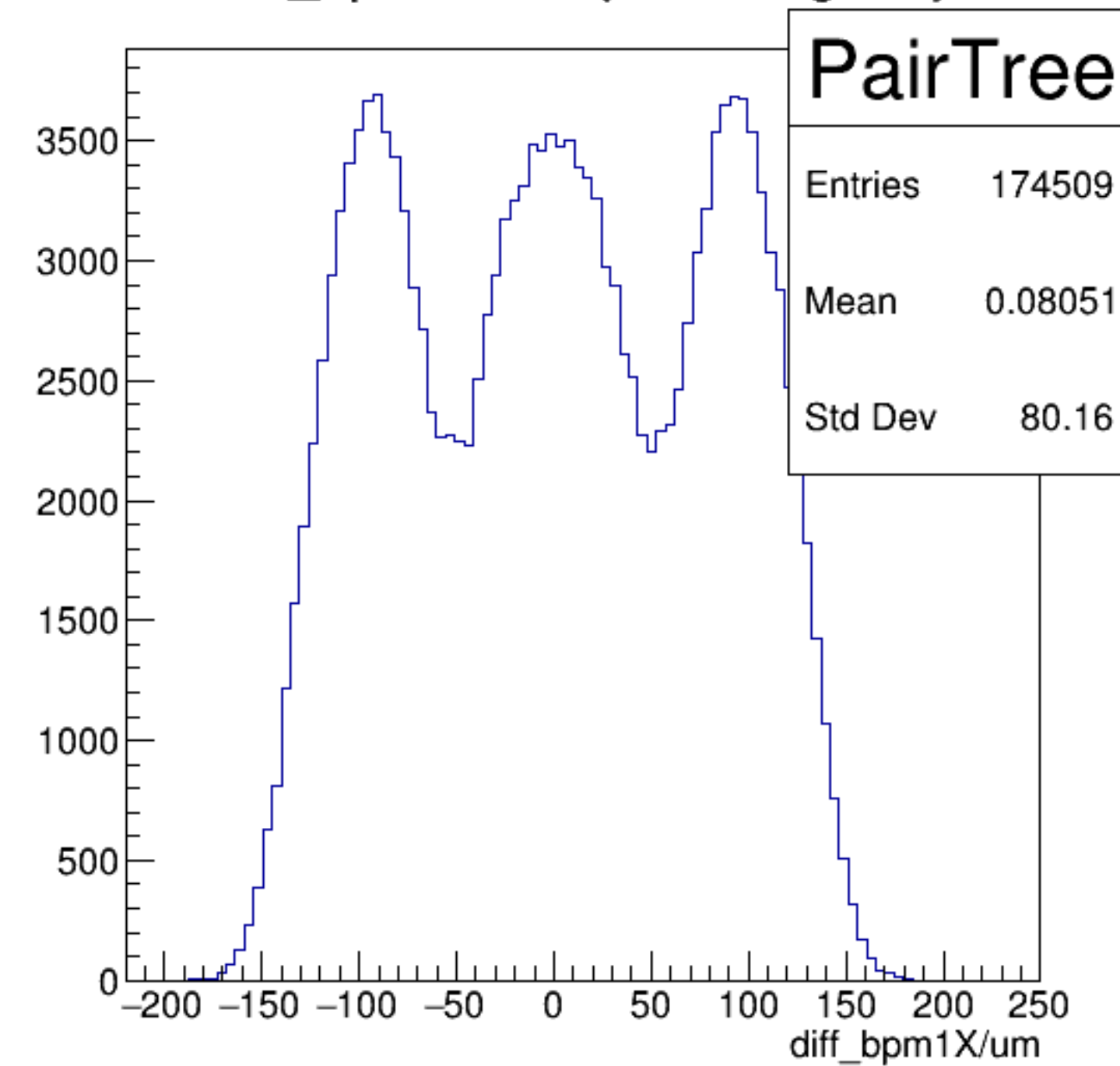
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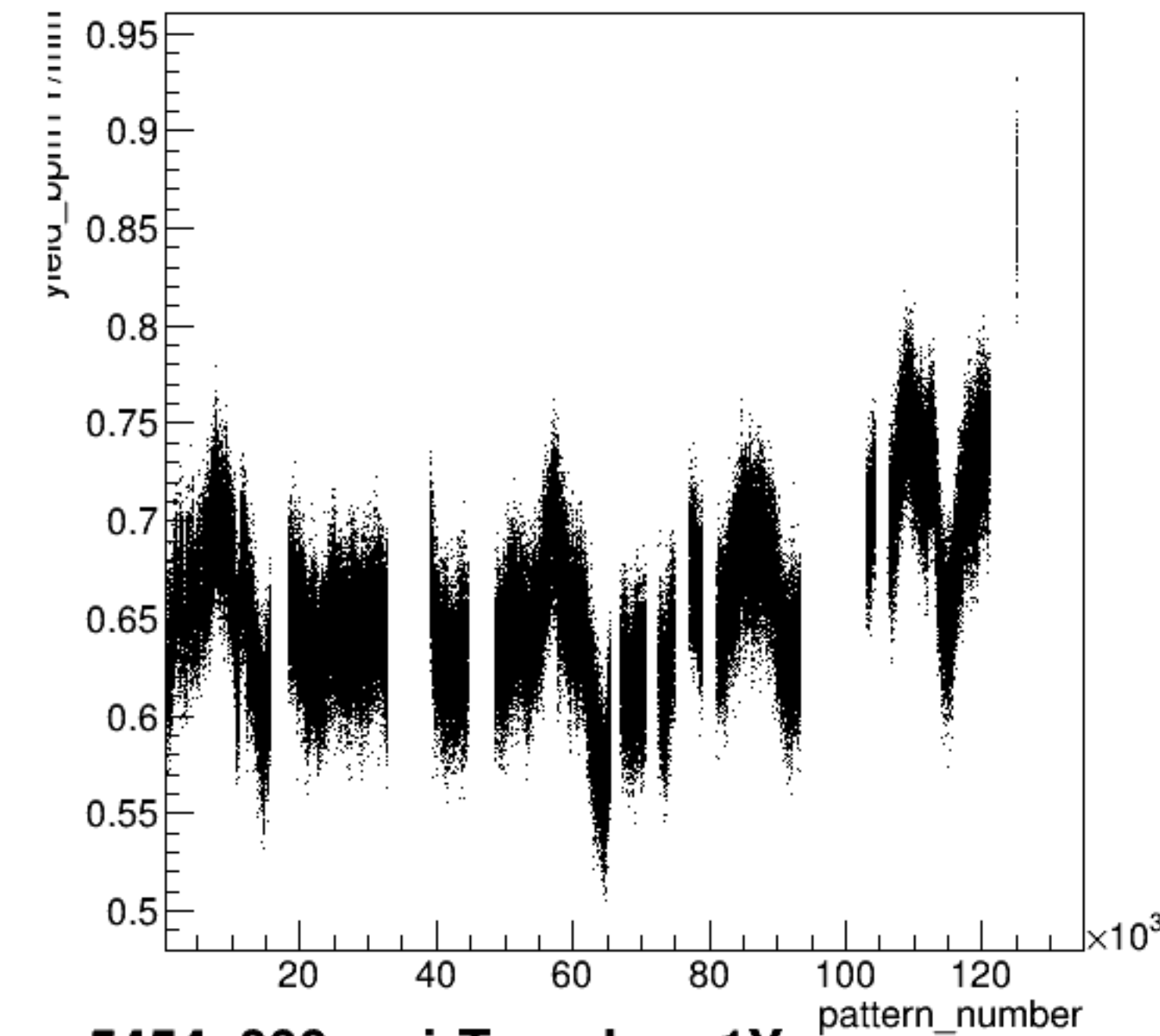
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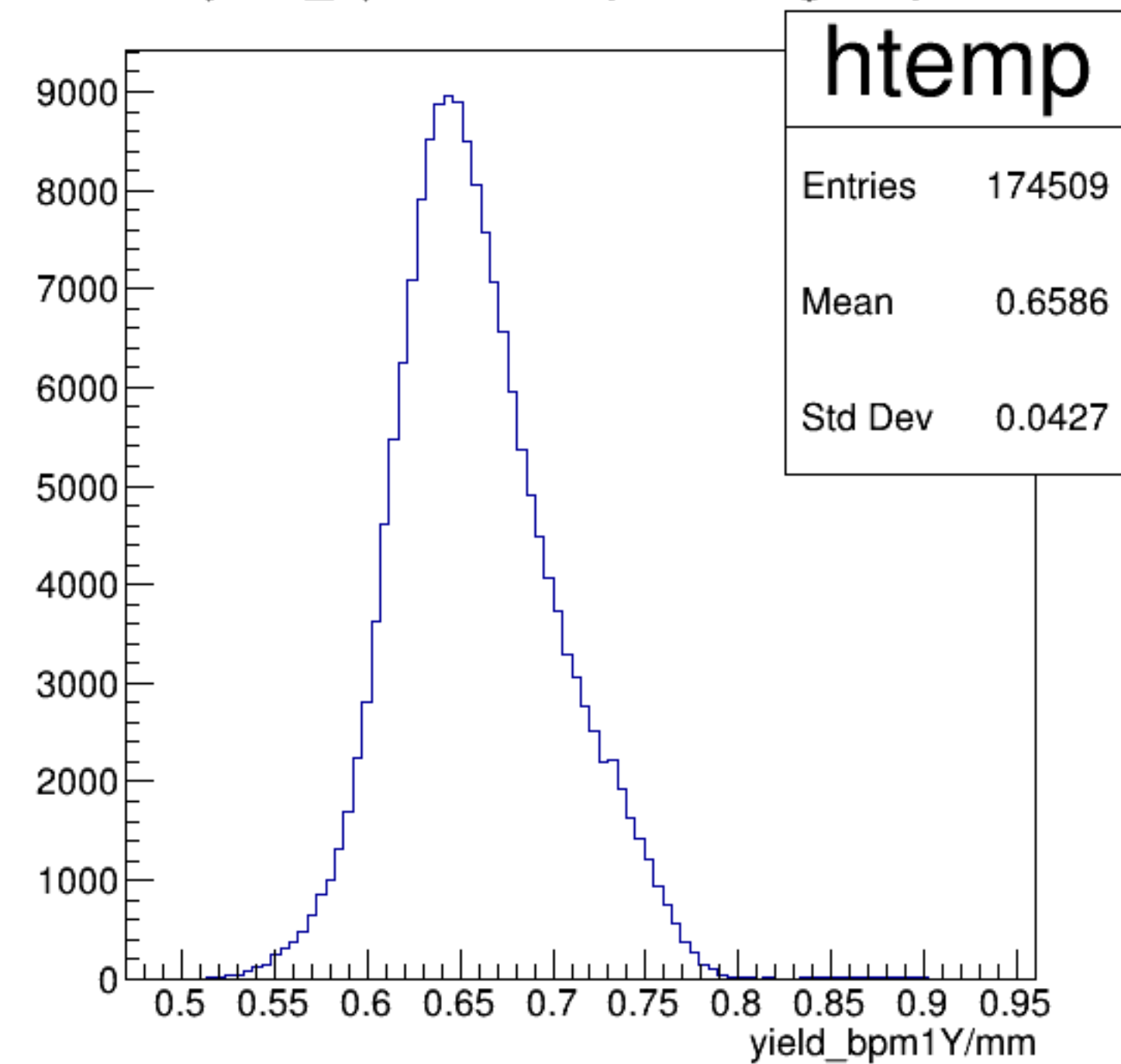
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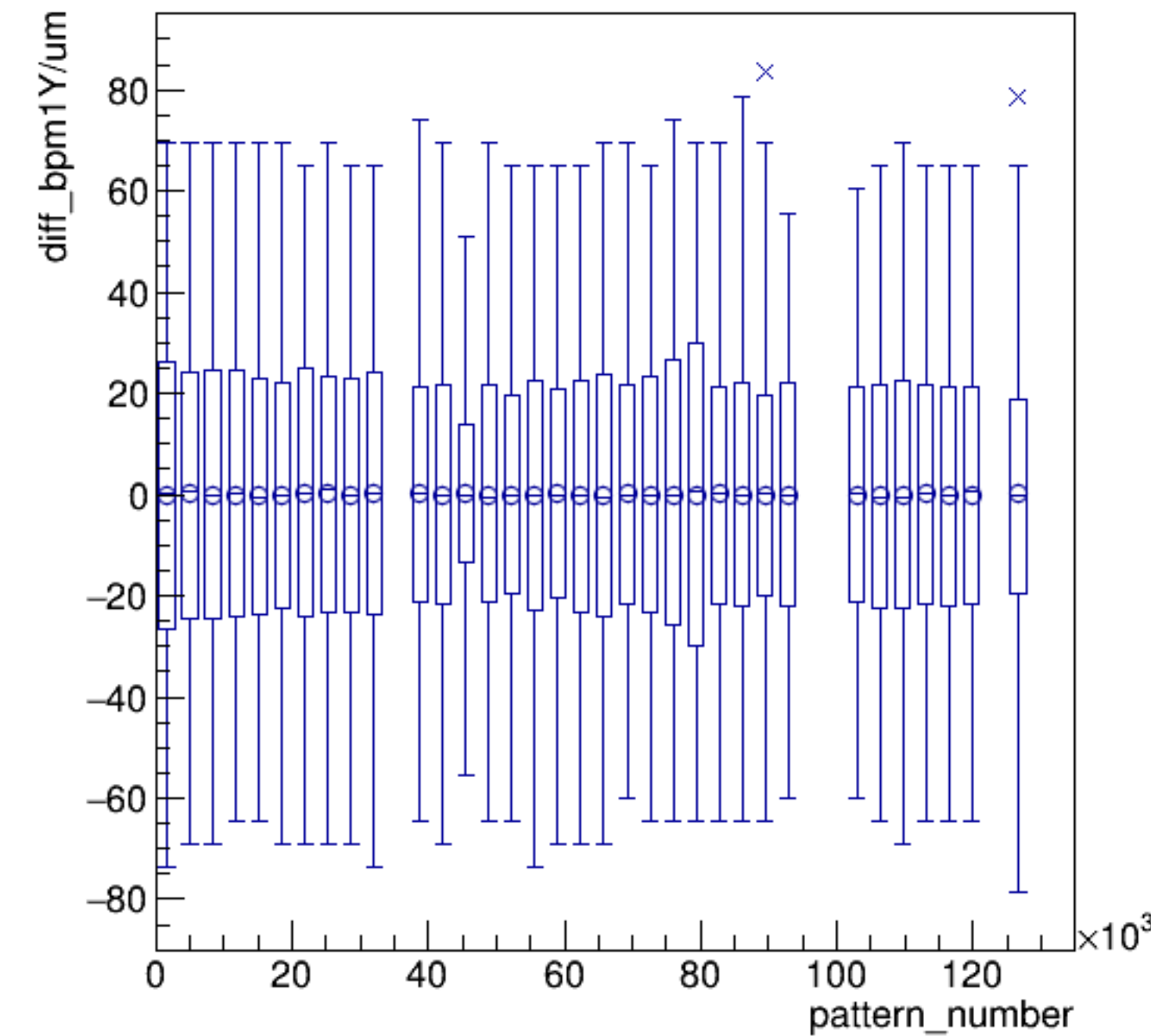
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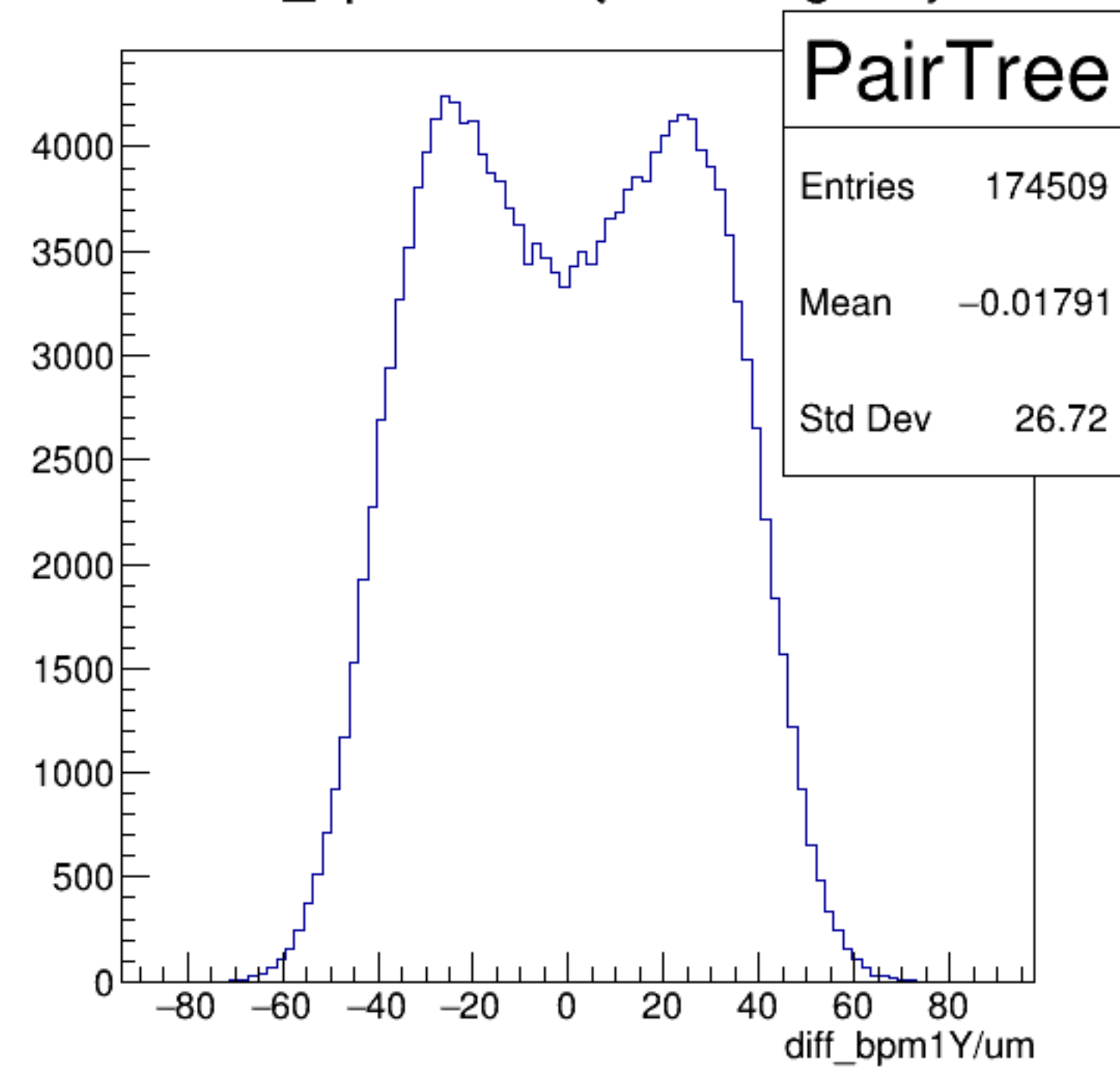
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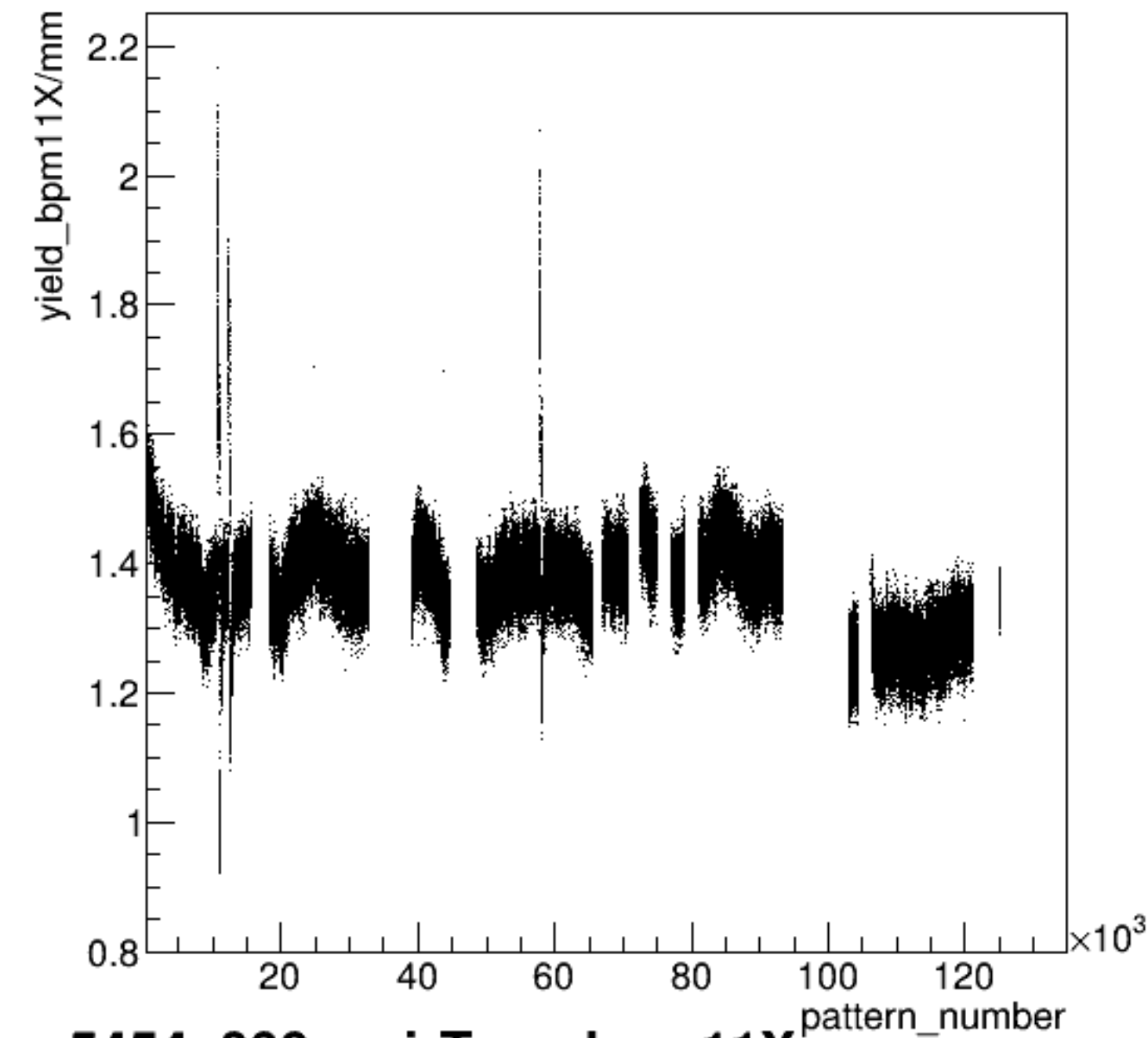
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diff_bpm1Y/um {ErrorFlag==0}

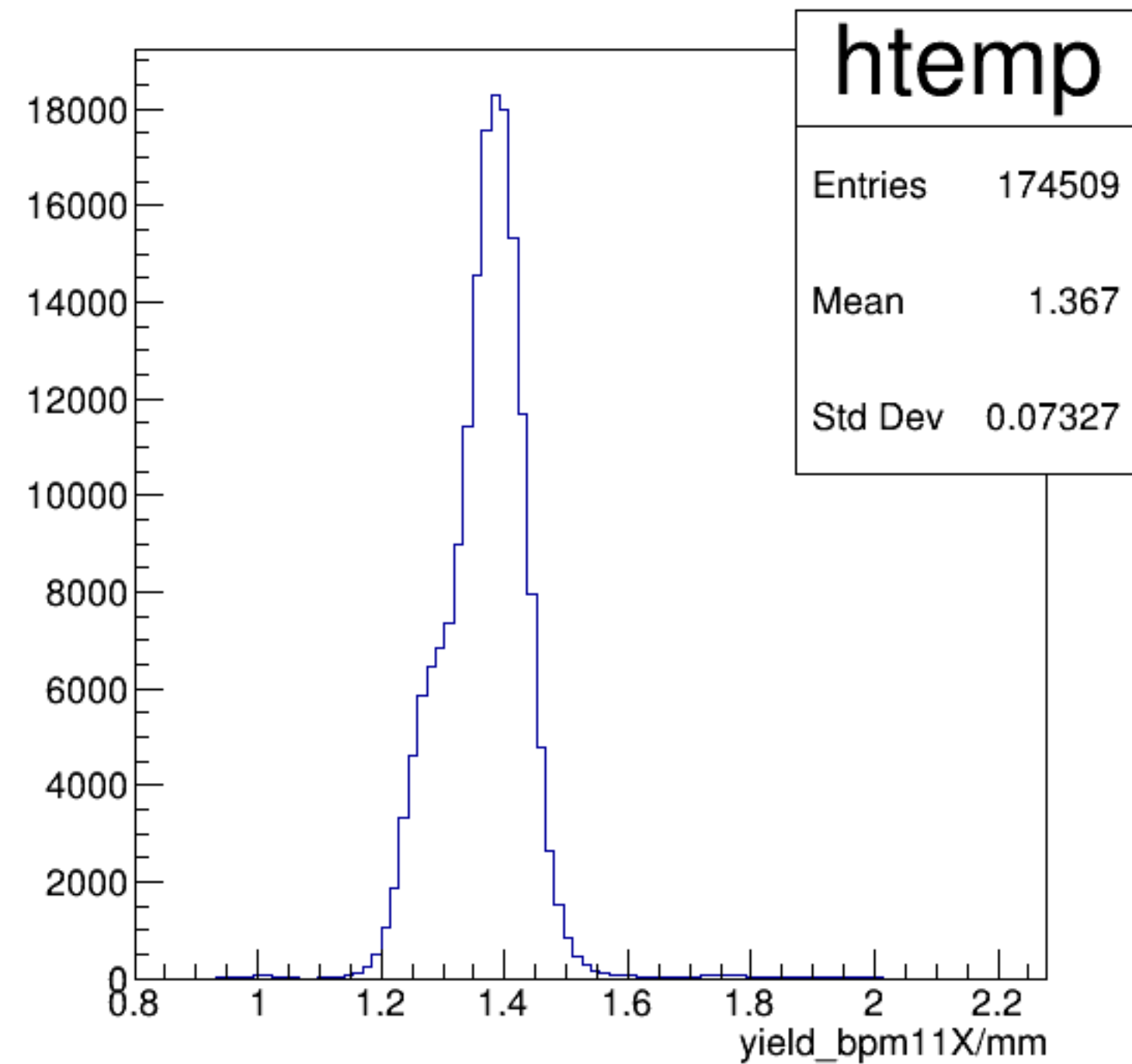


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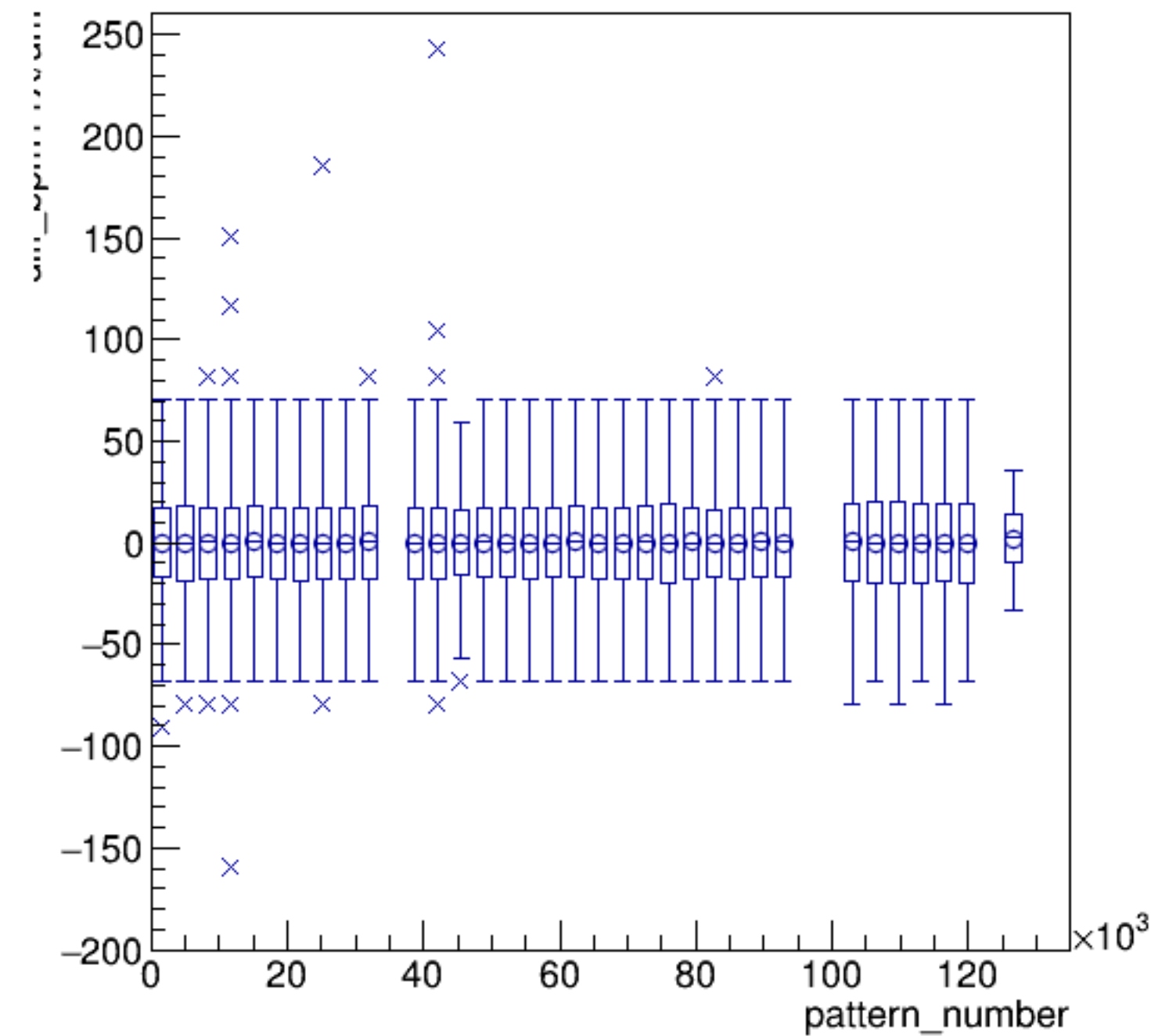


run5454_000_pairTree_bpm11X.png

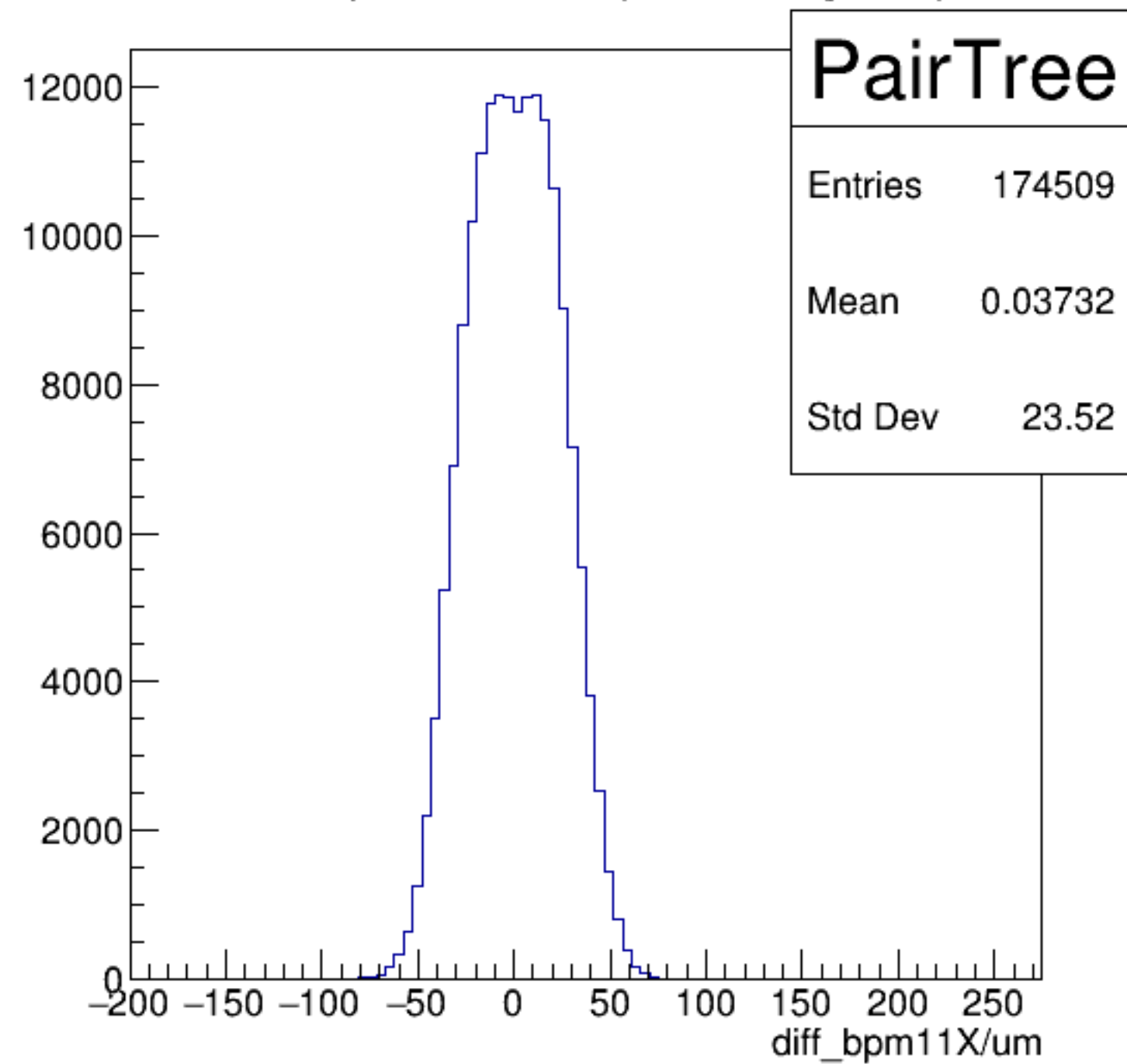
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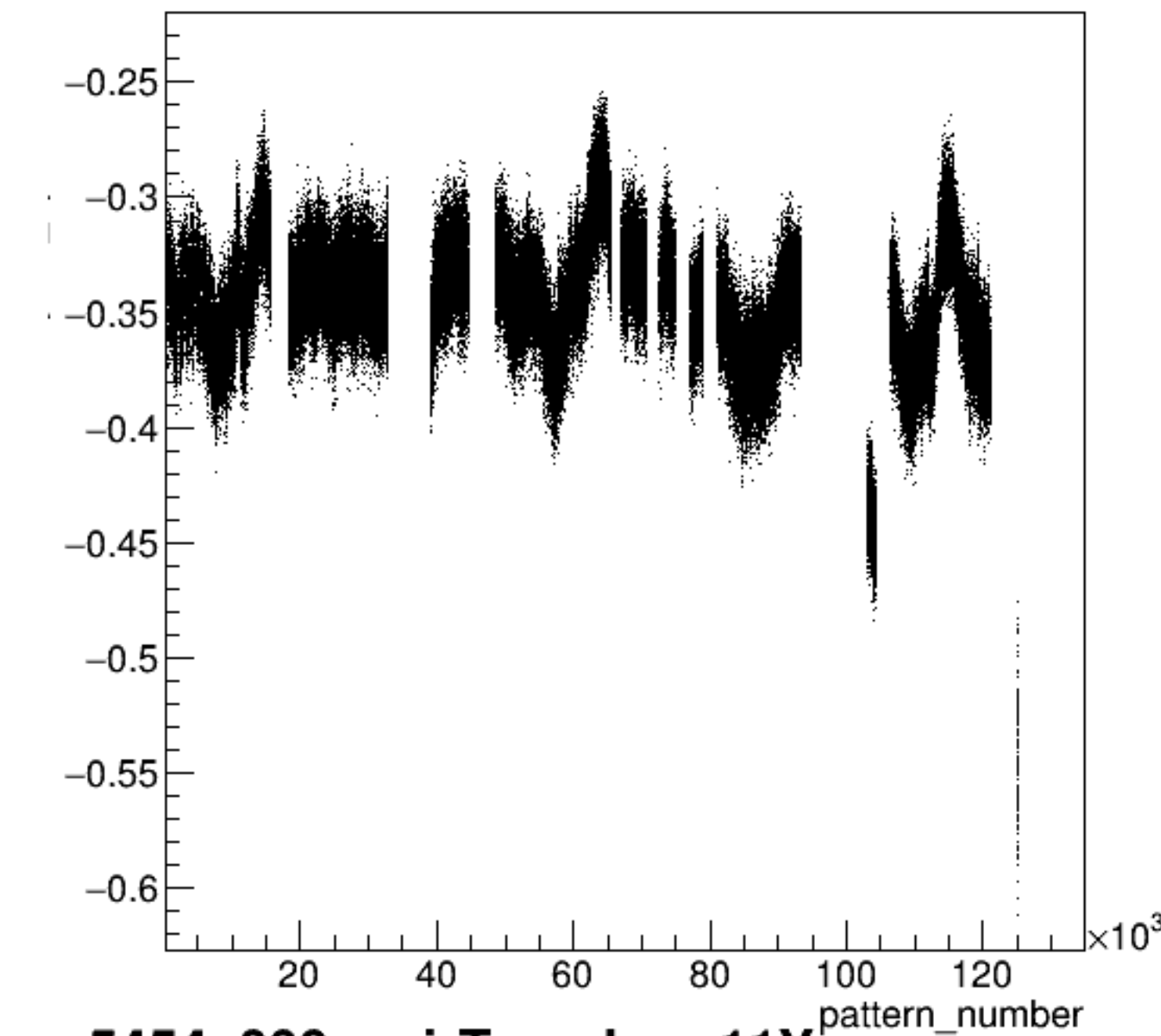
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diff_bpm11X/um {ErrorFlag==0}

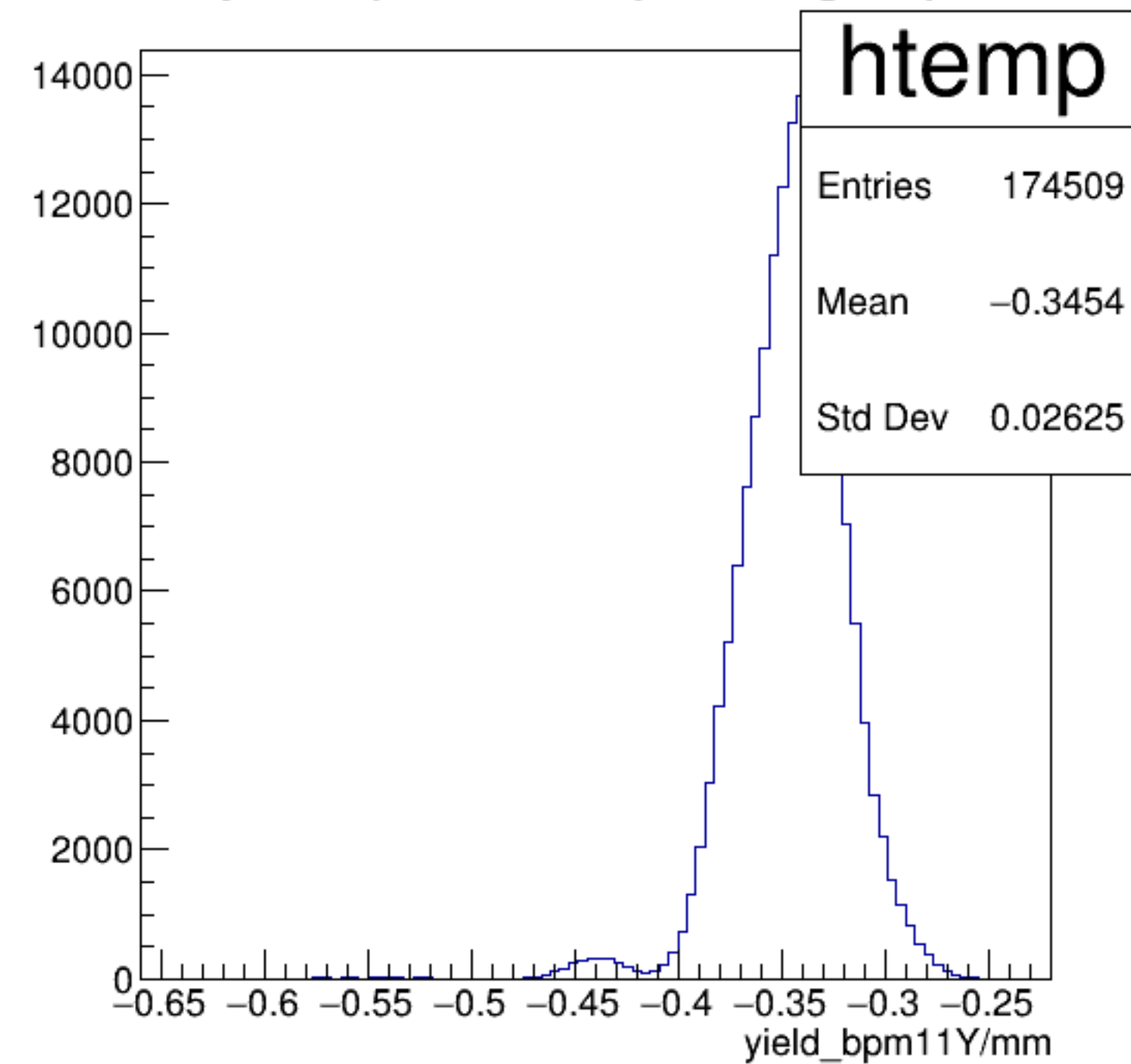


yield_bpm11Y/mm:pattern_number {ErrorFlag==0}

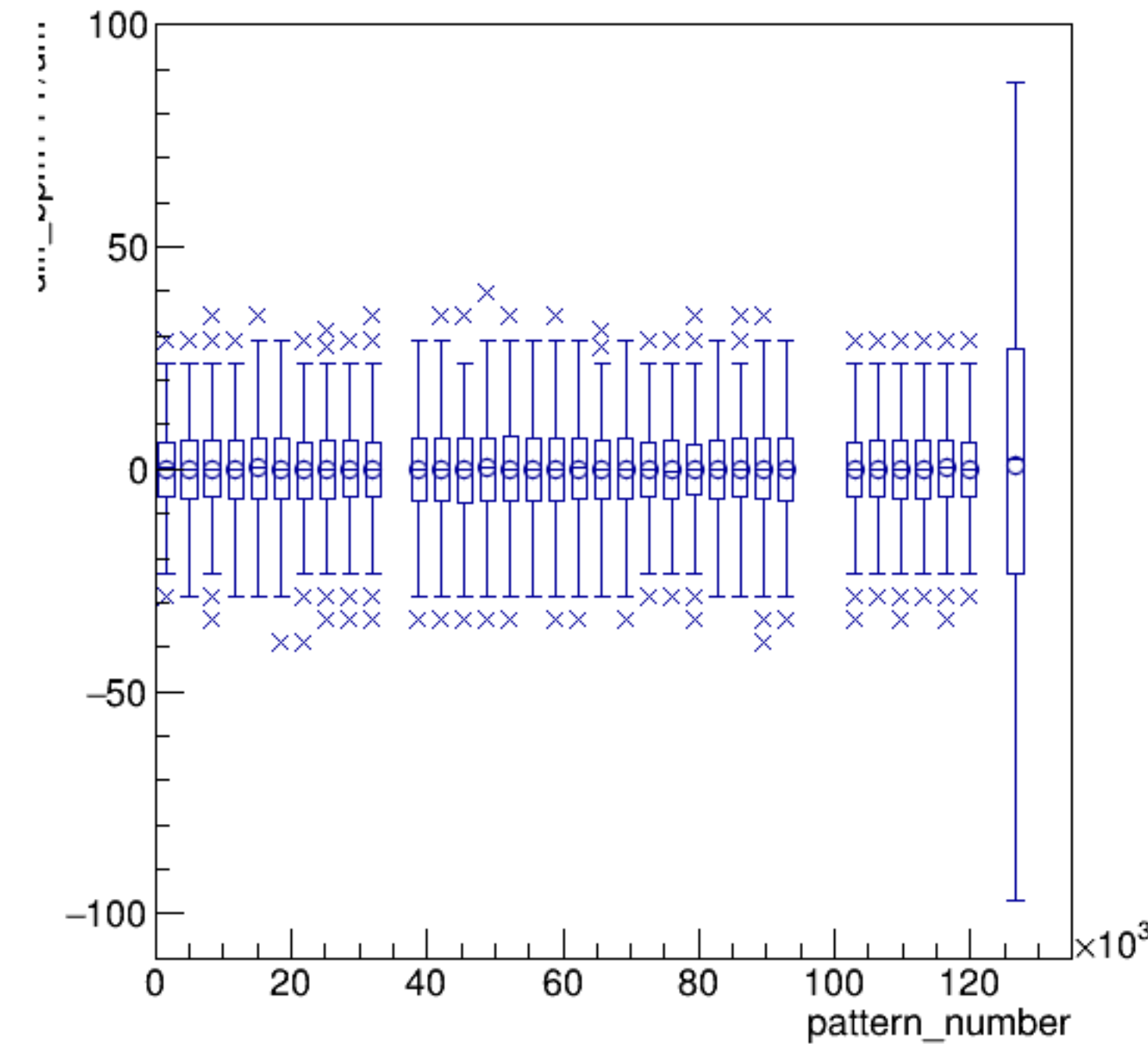


run5454_000_pairTree_bpm11Y.png

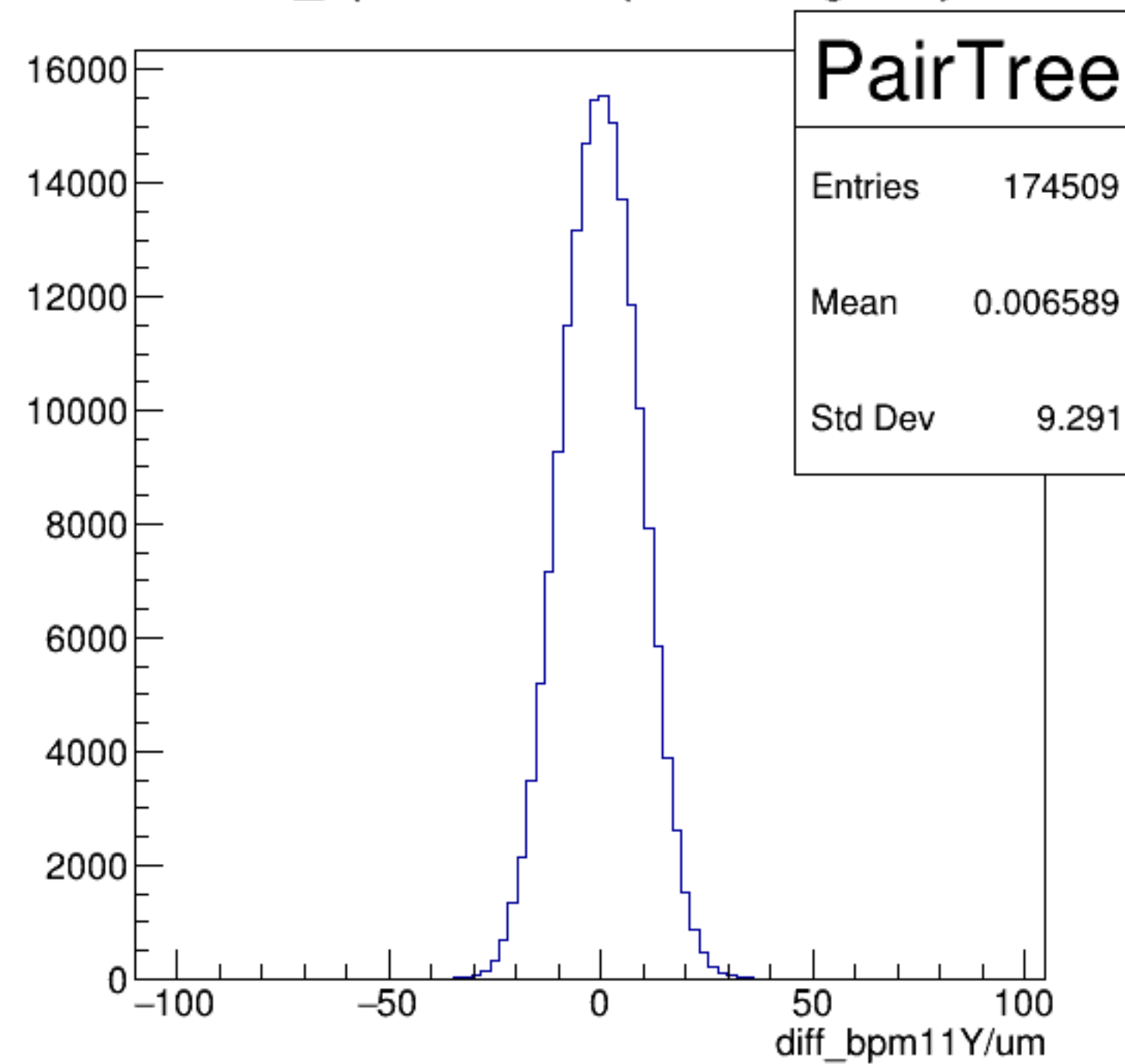
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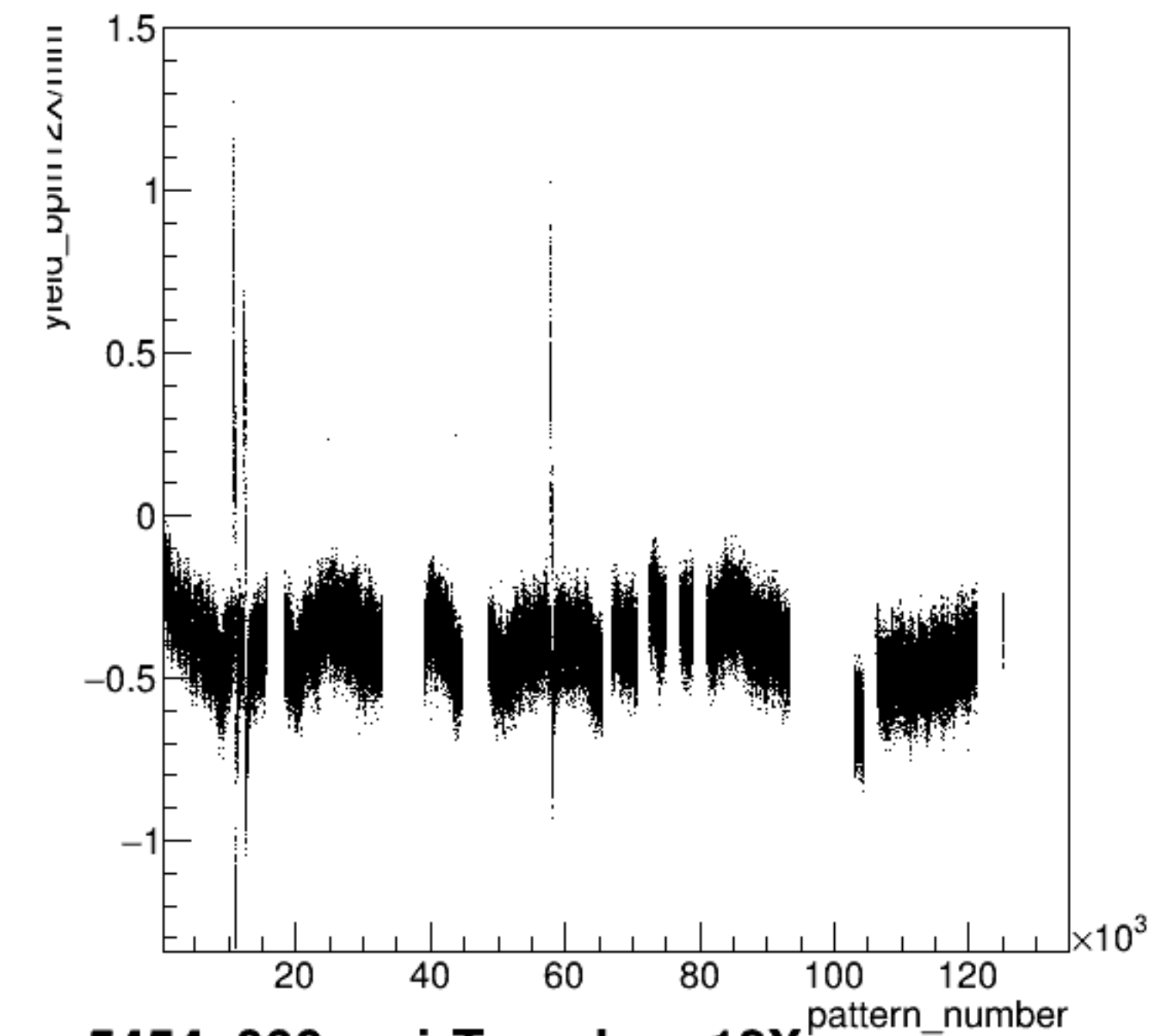
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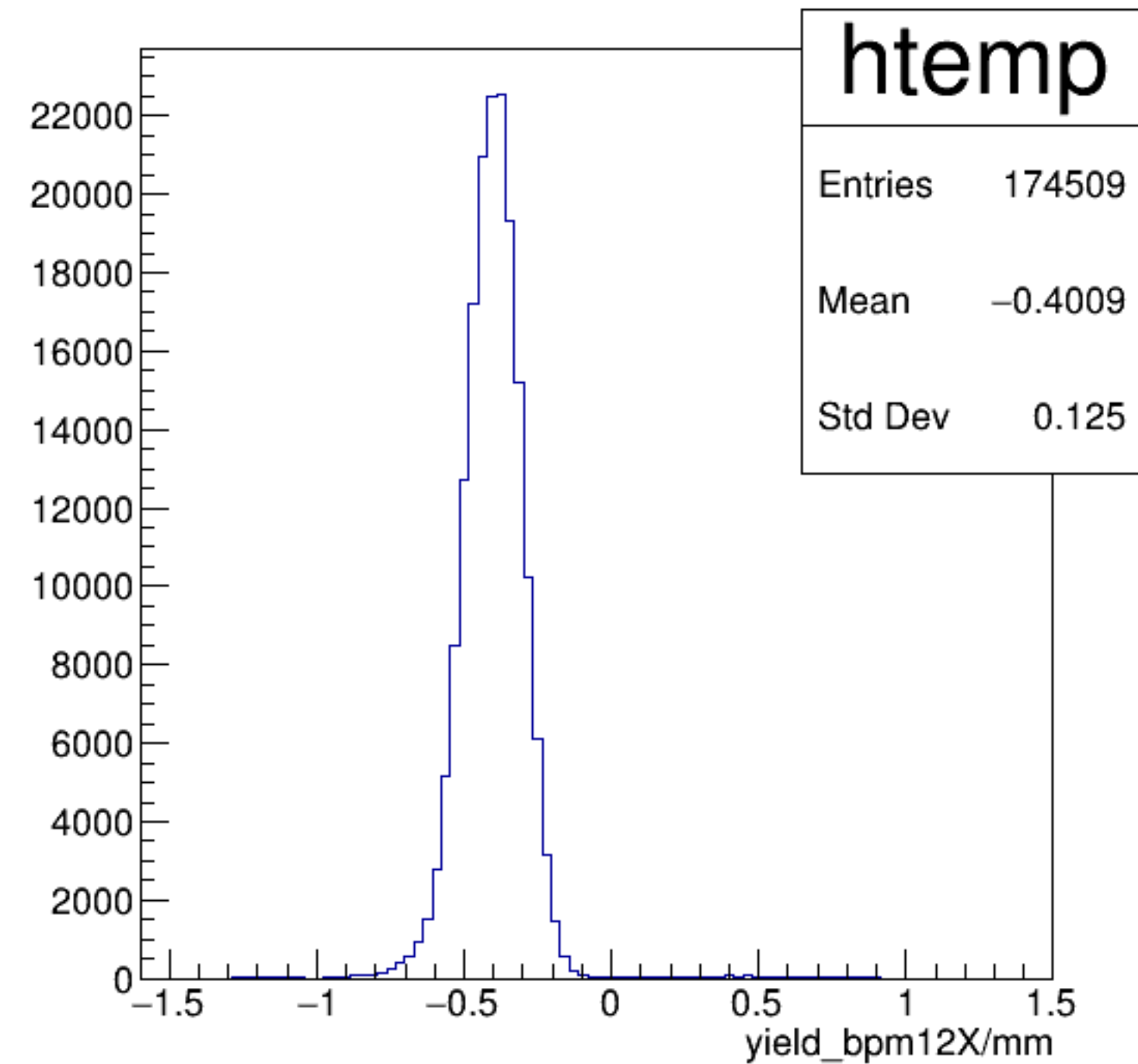


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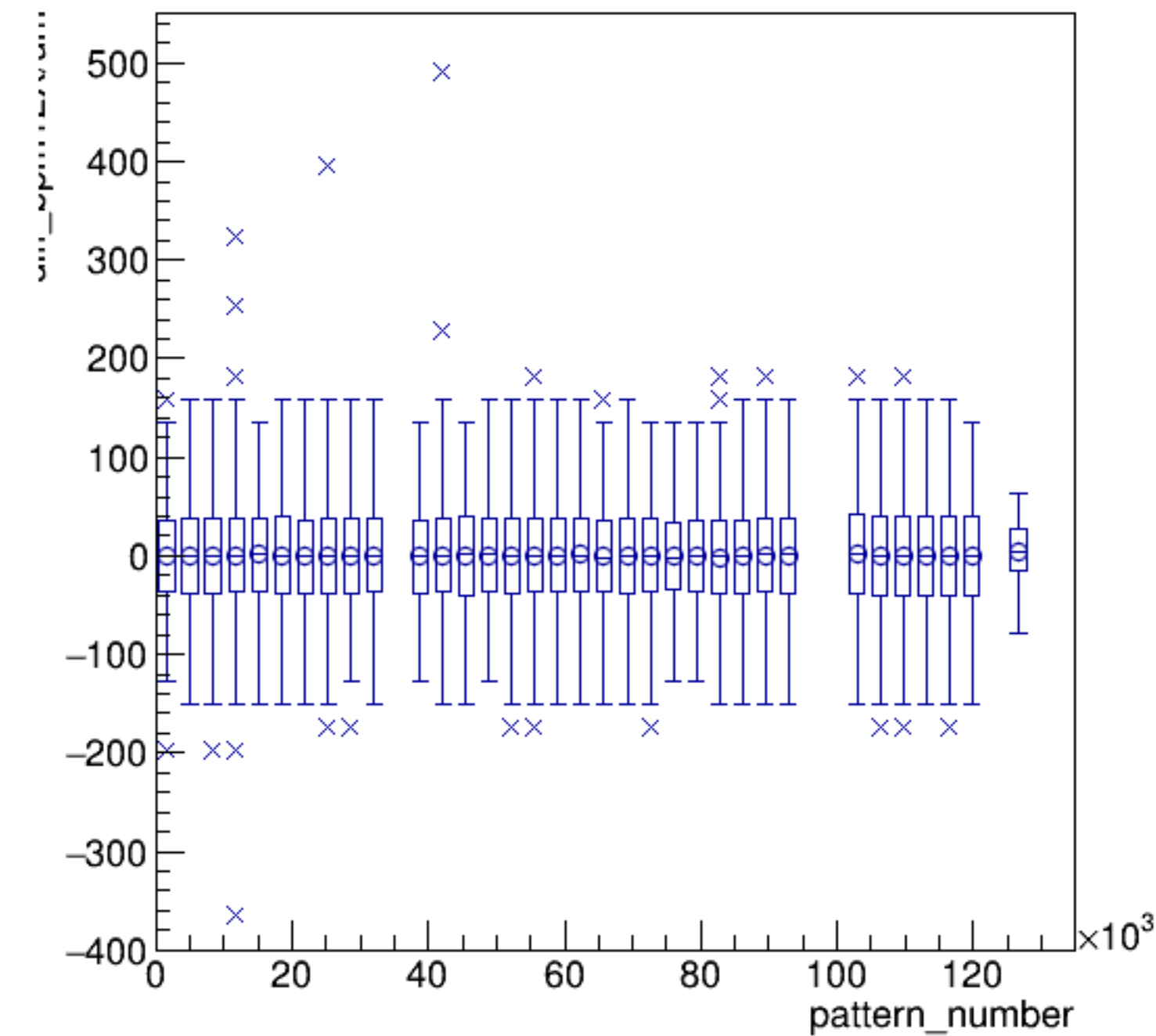


run5454_000_pairTree_bpm12X.png

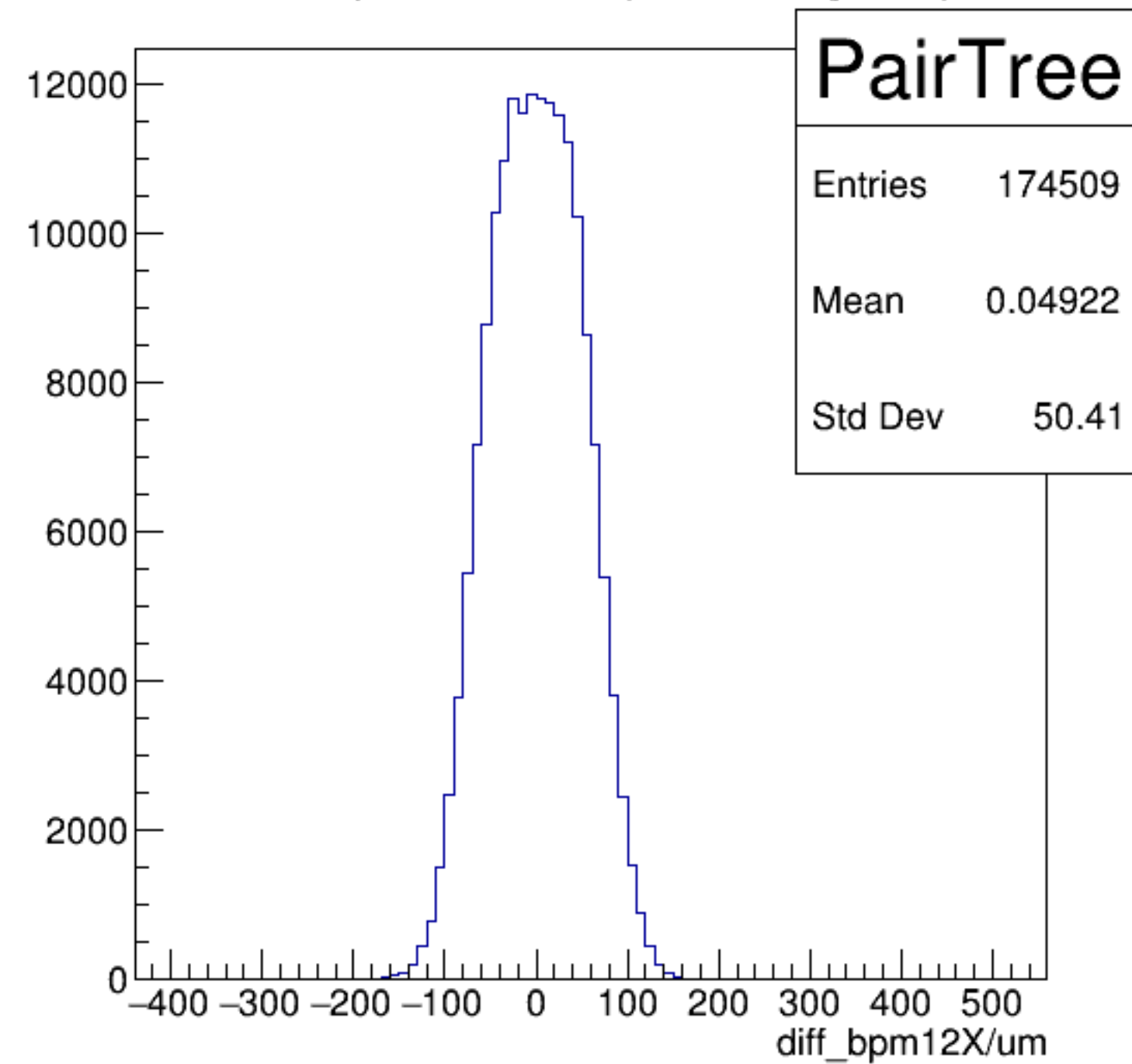
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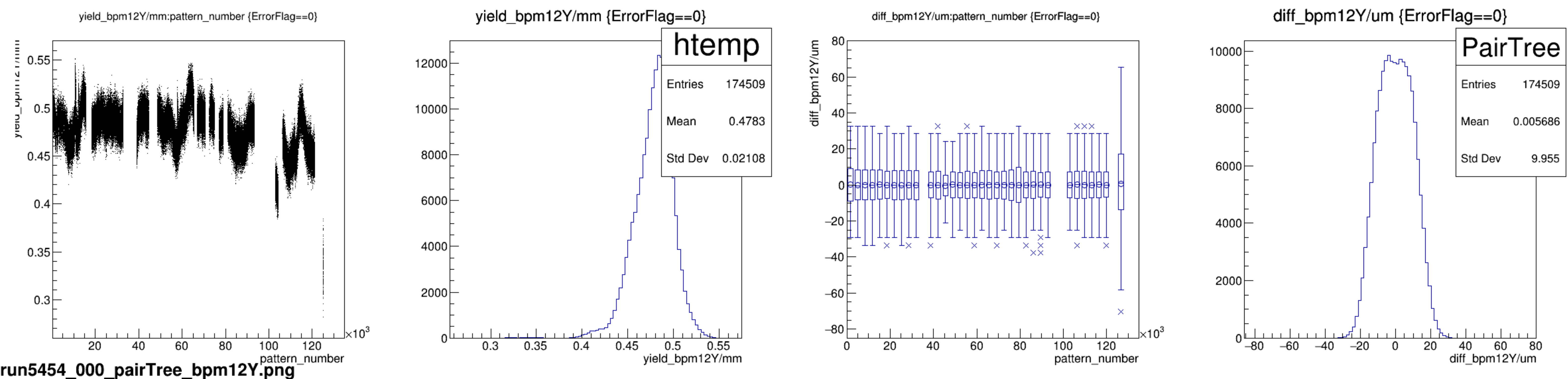


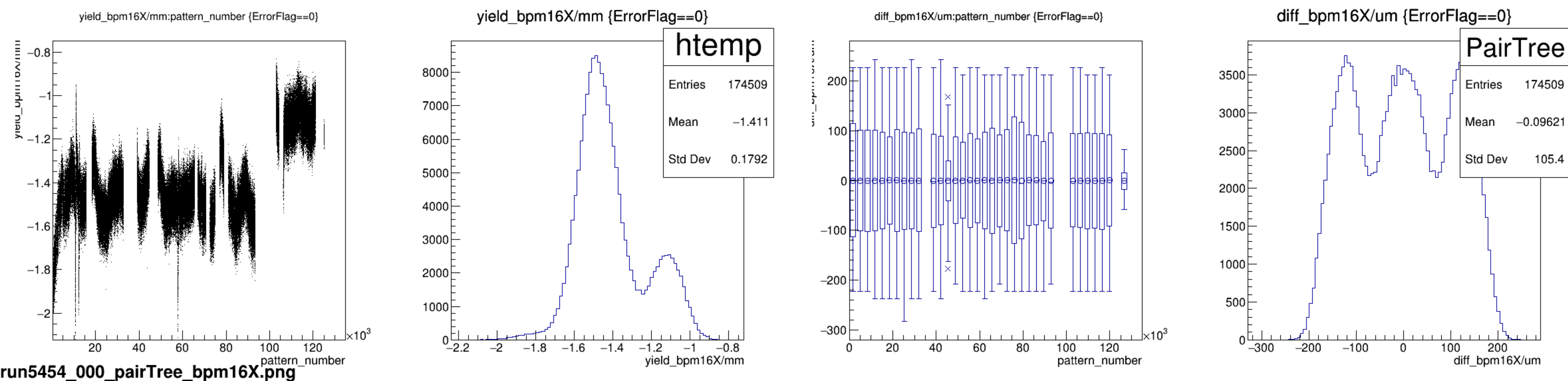
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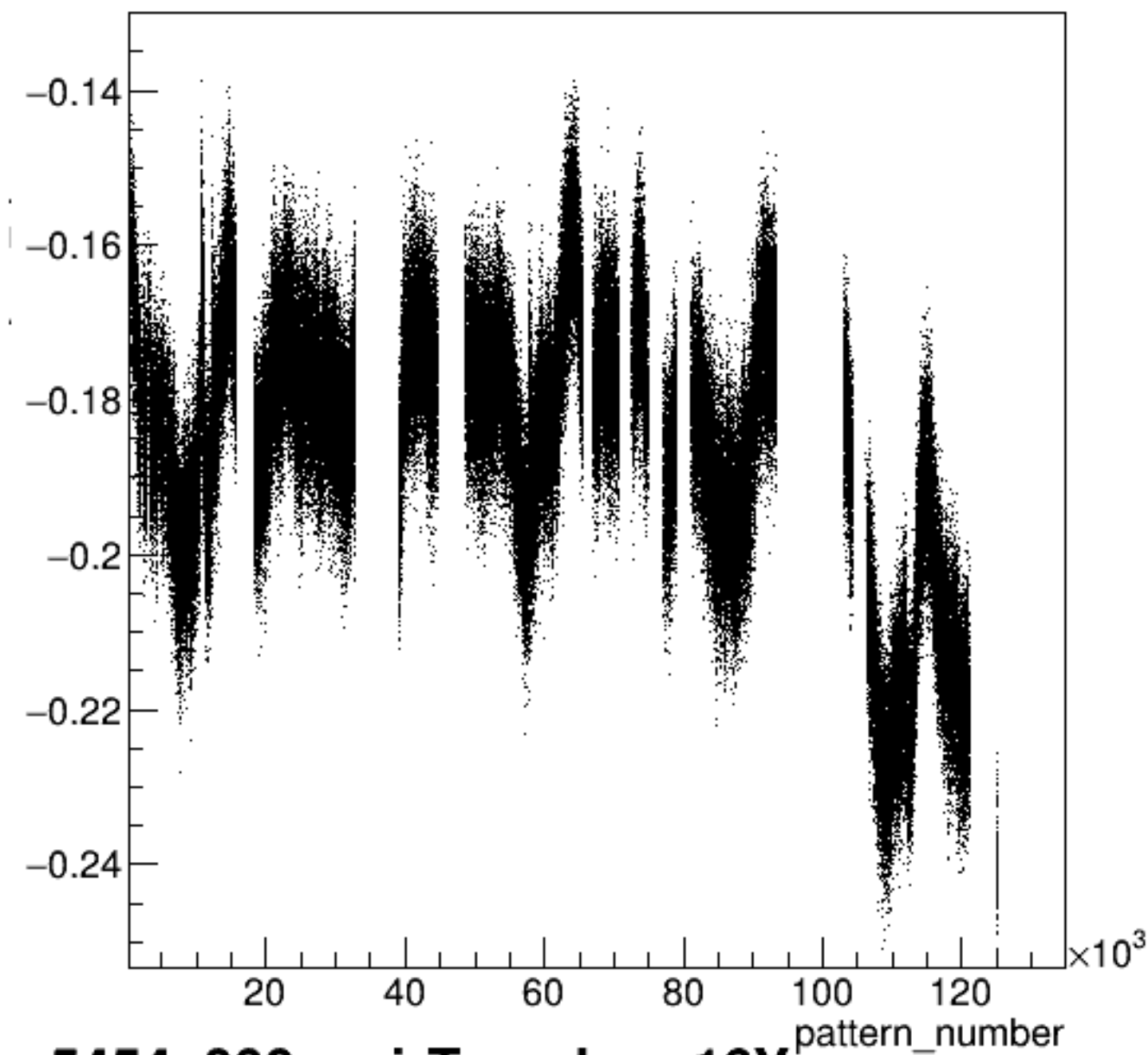
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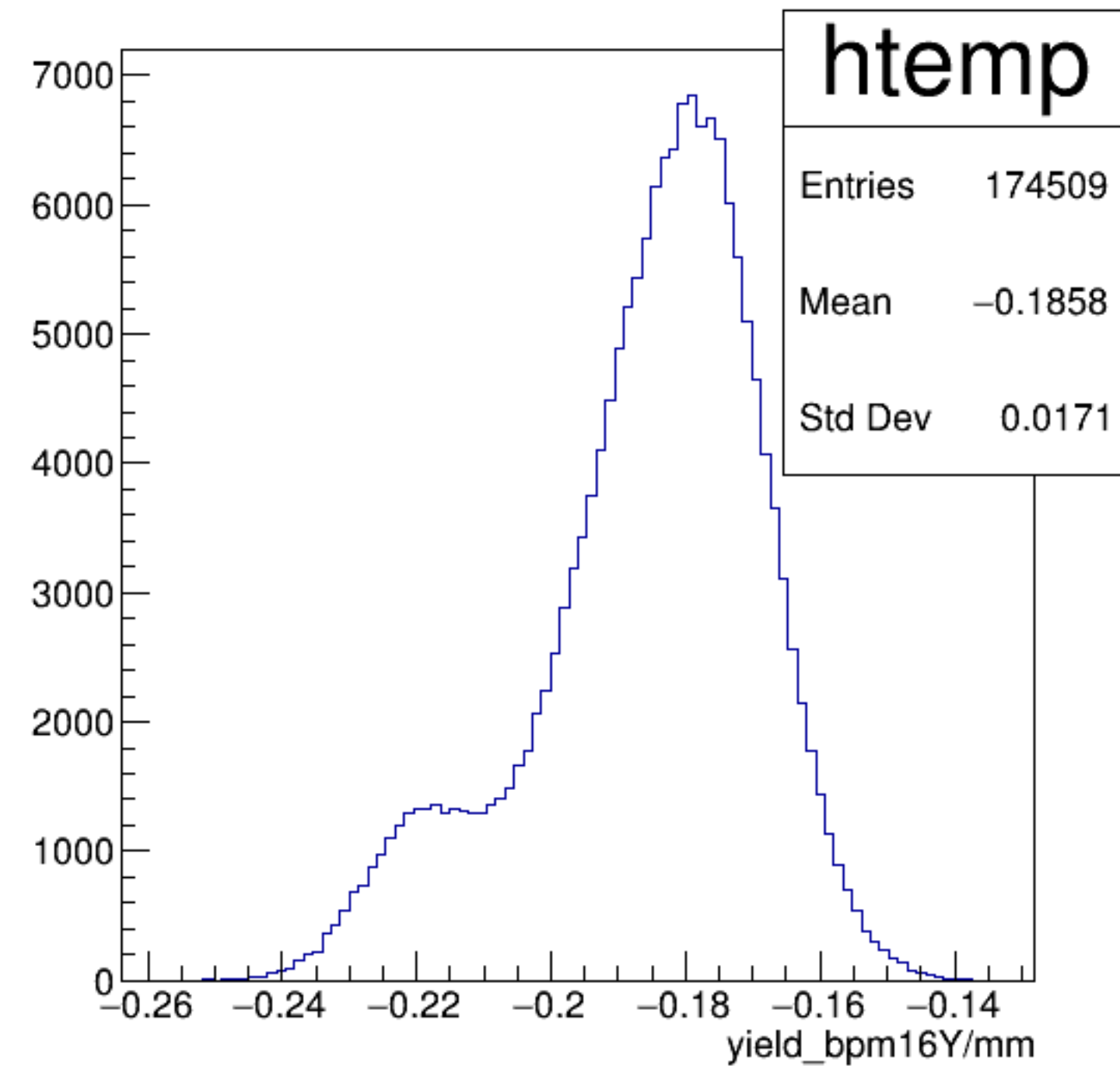




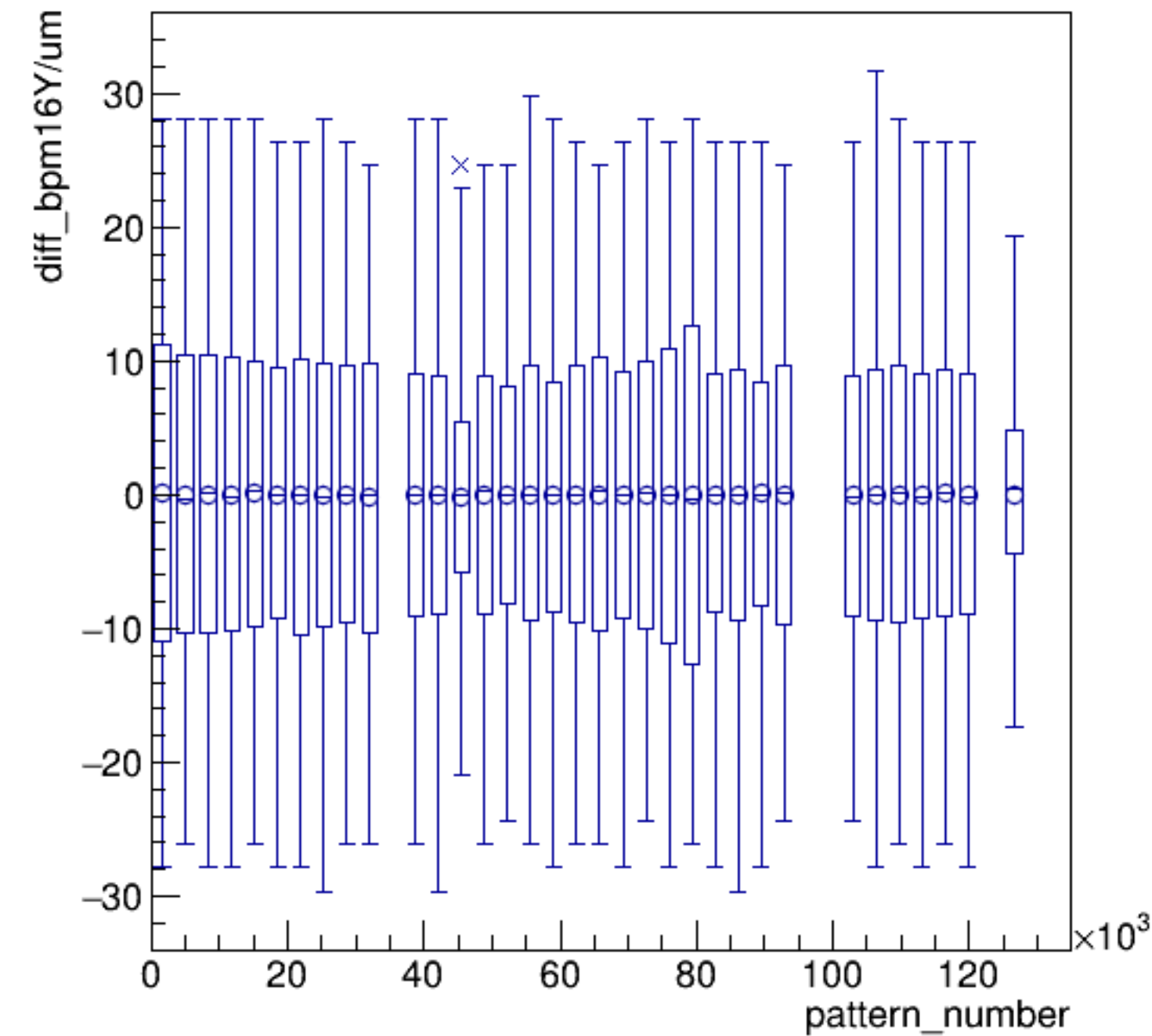
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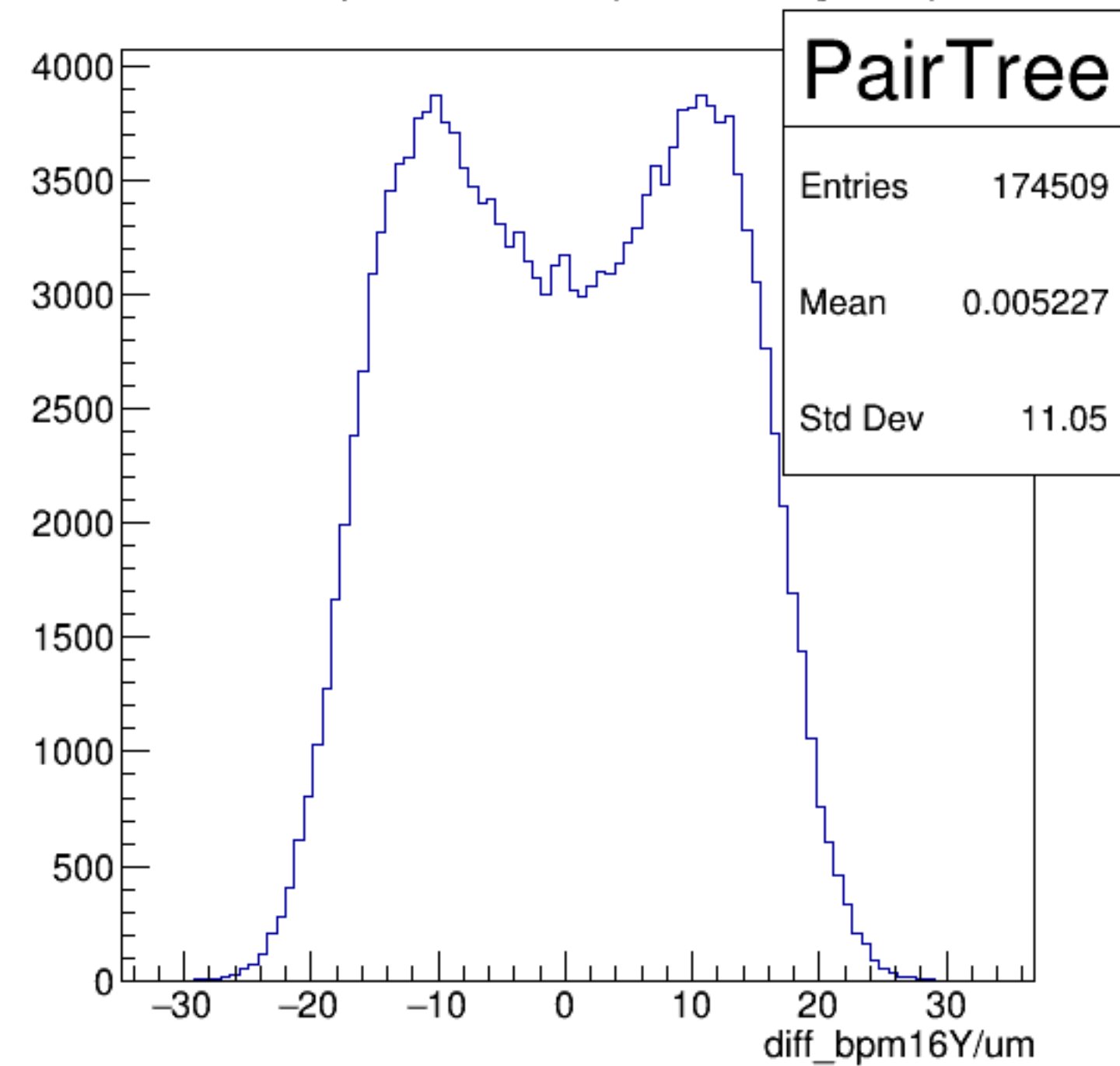
yield_bpm16Y/mm {ErrorFlag==0}



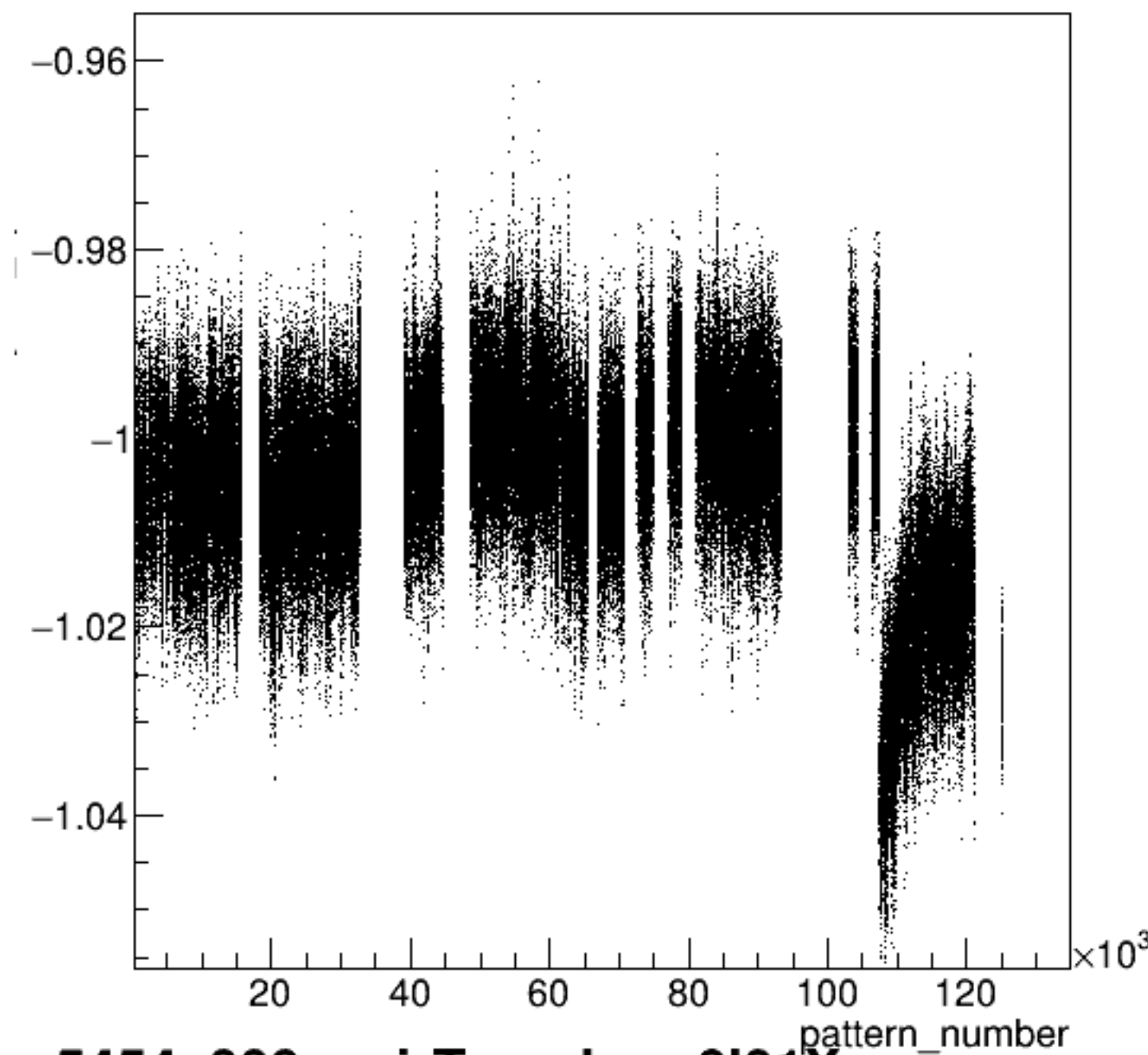
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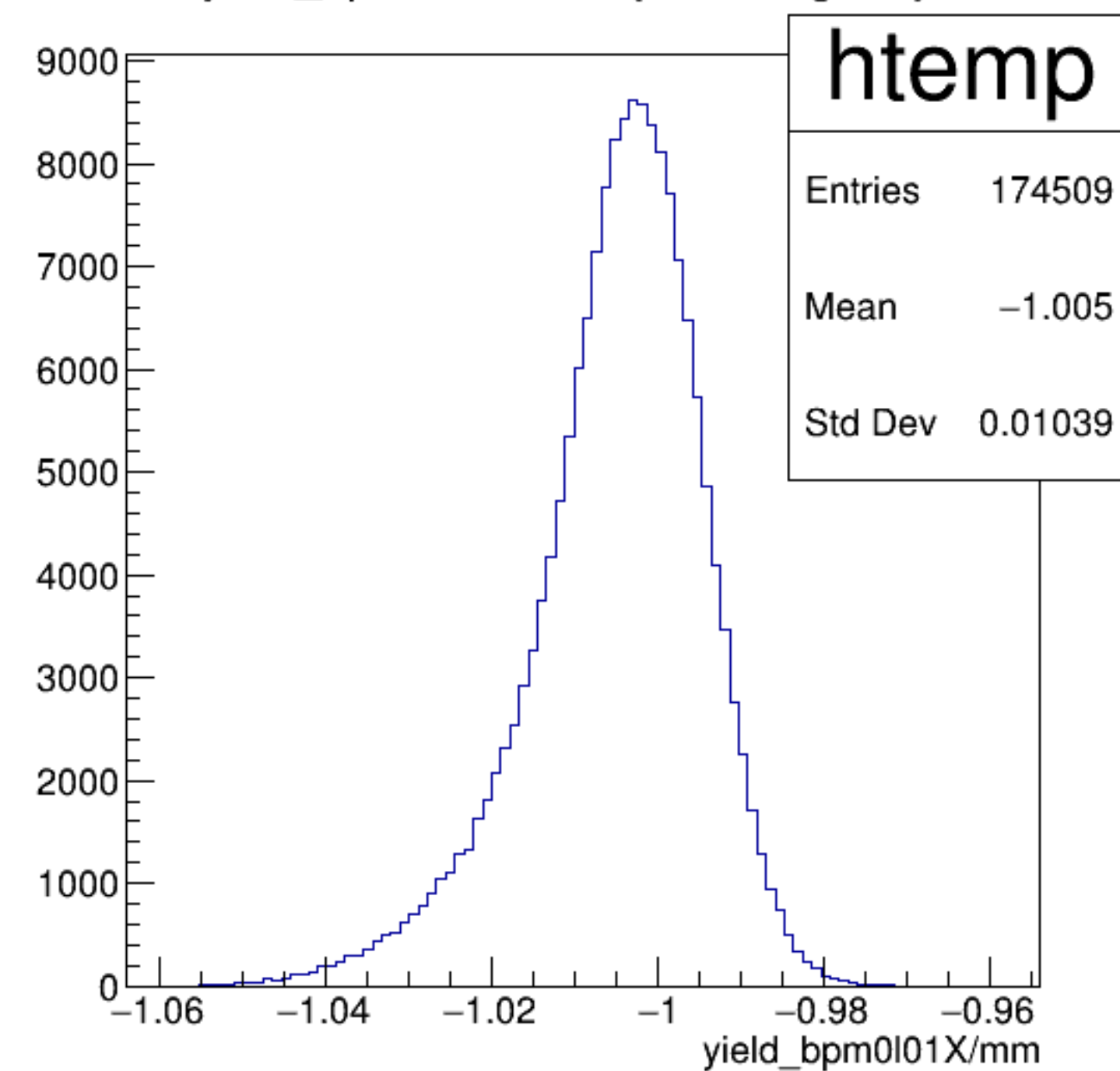
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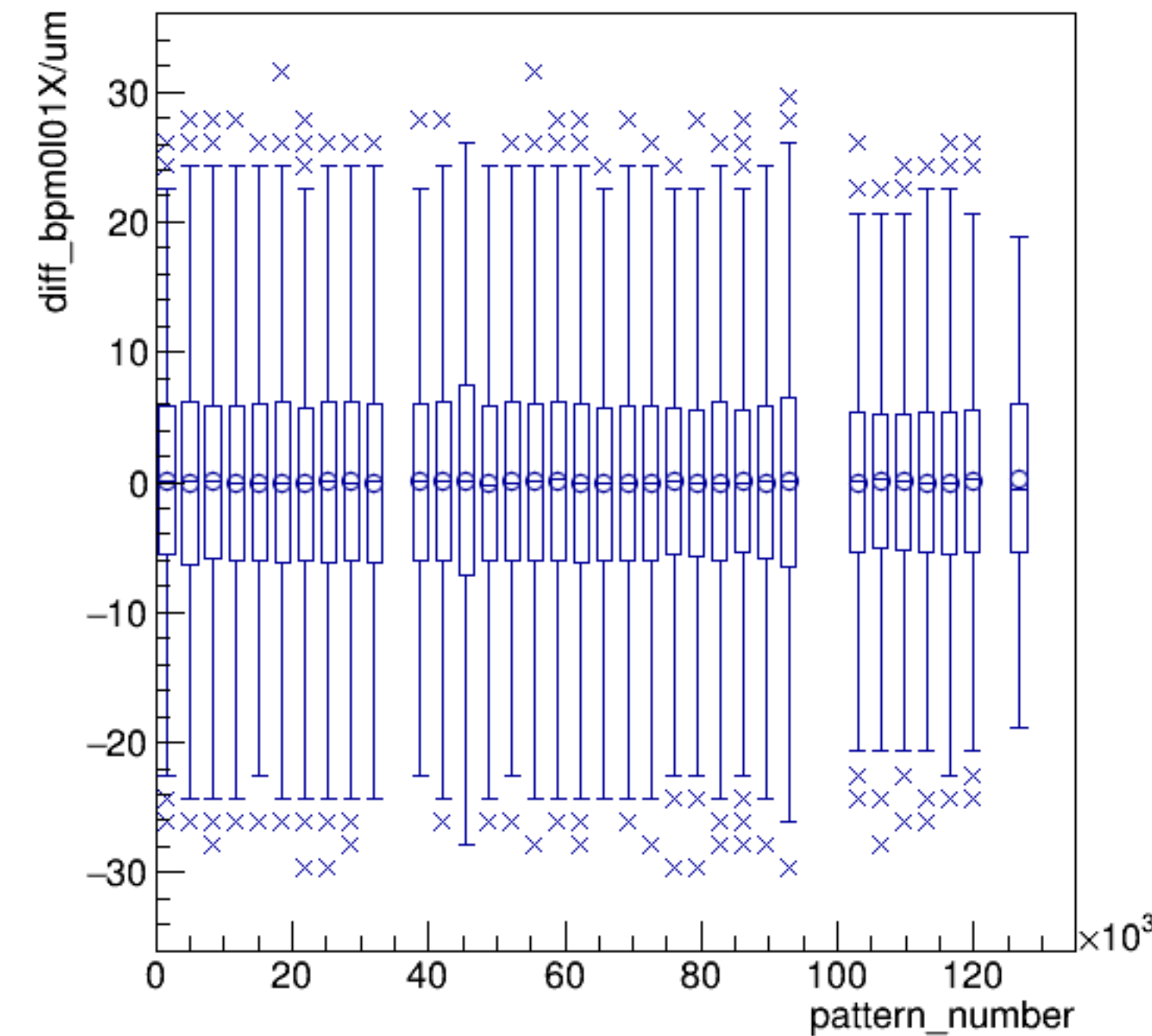
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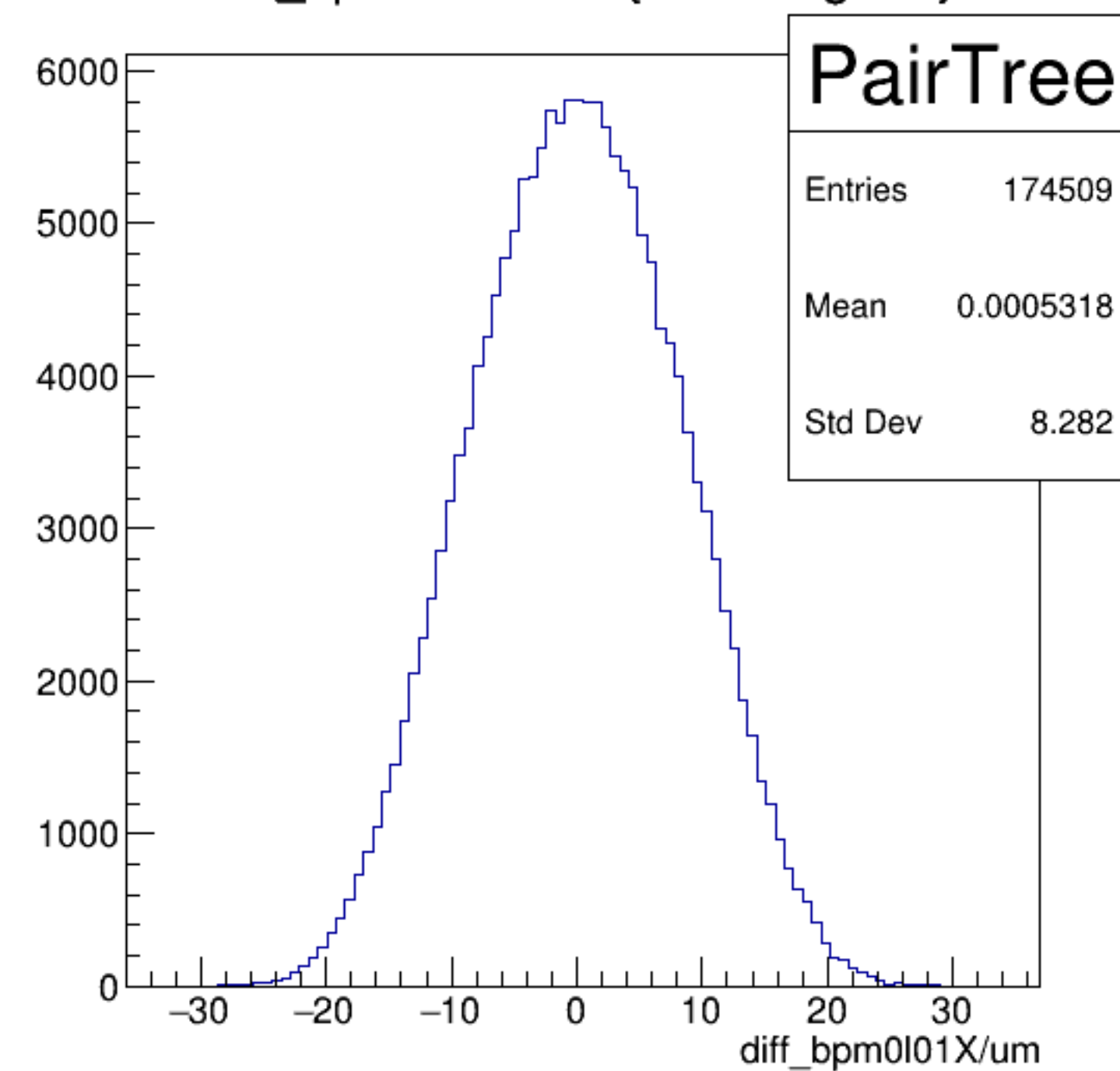
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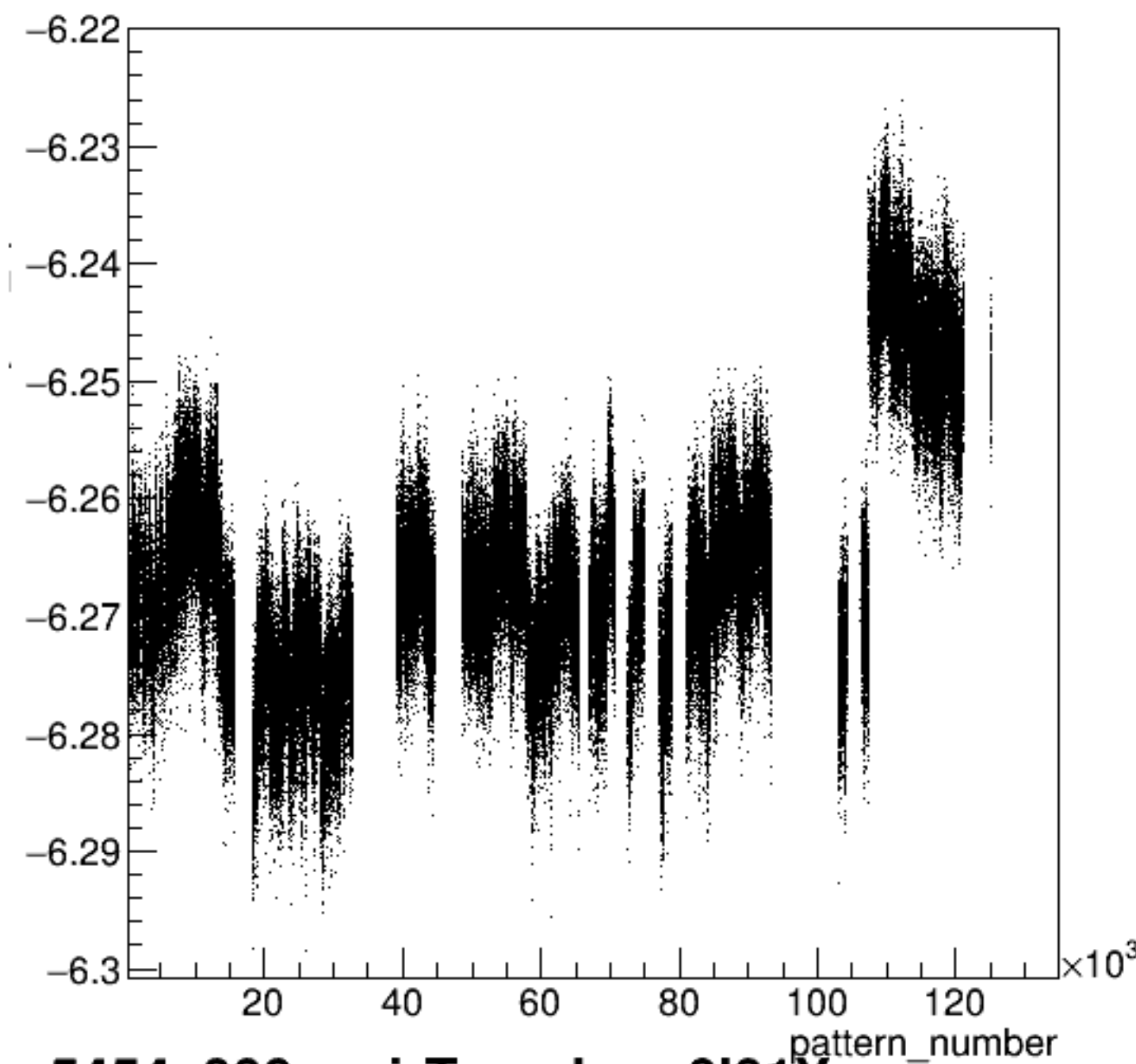
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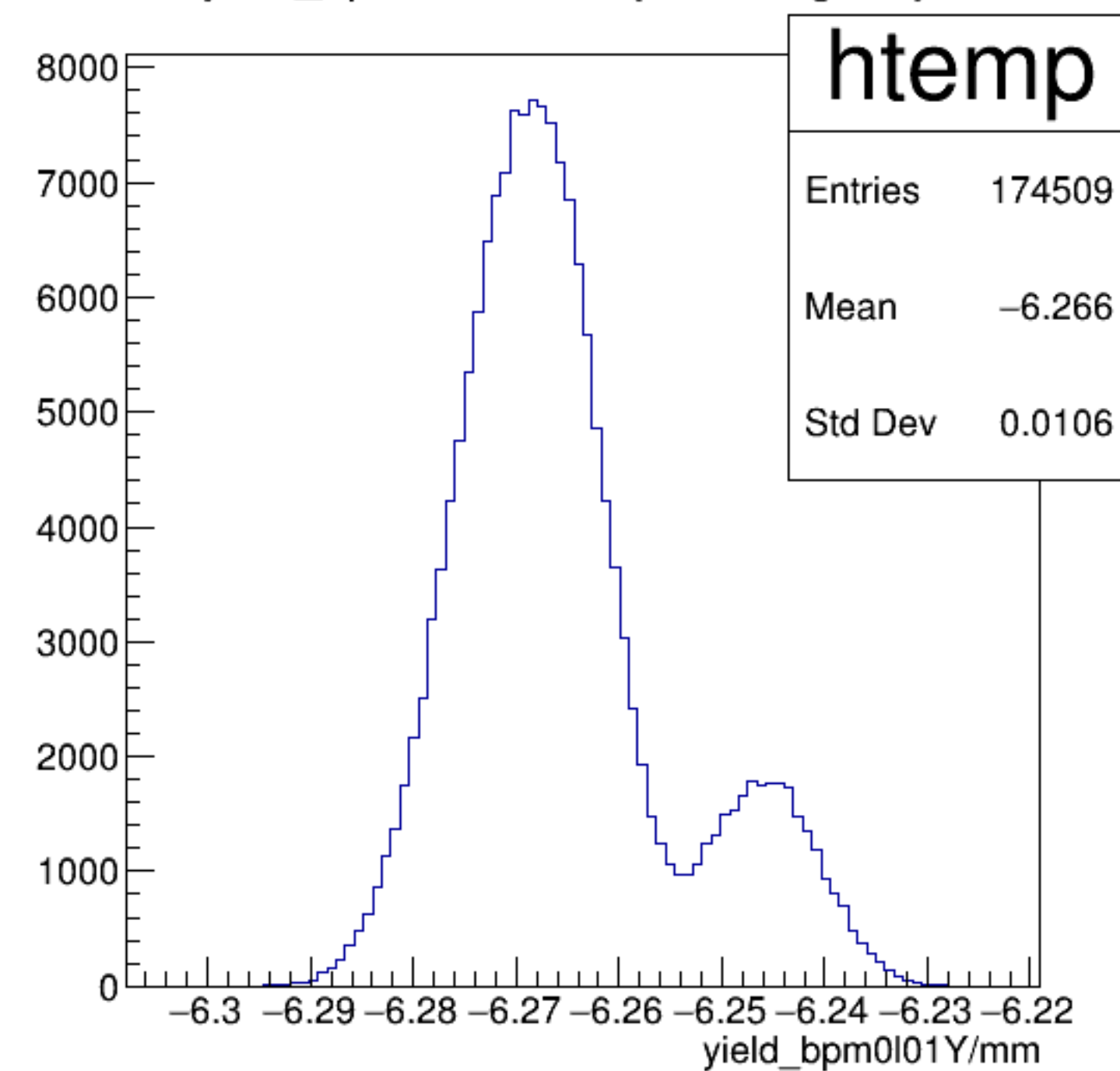
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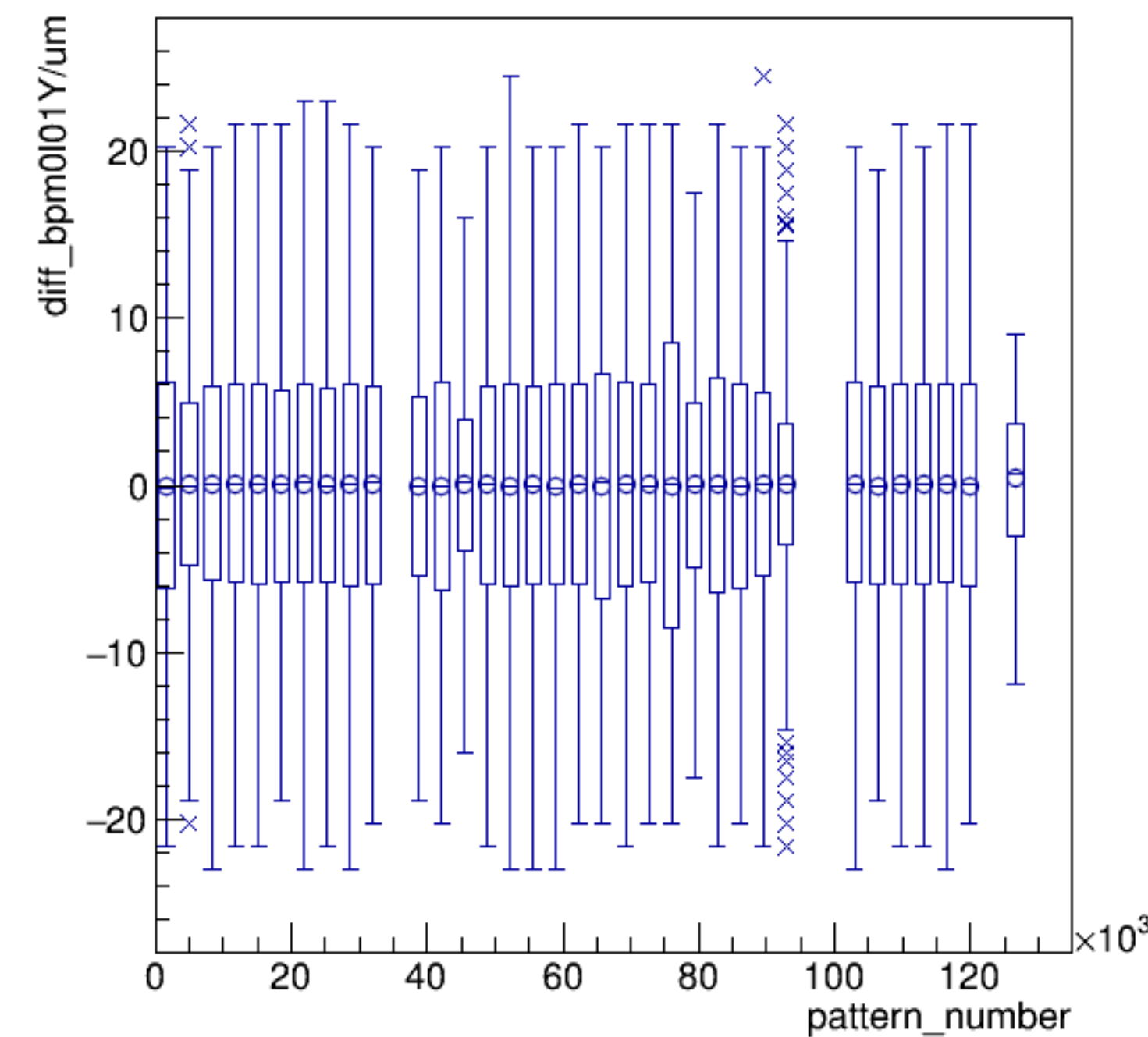
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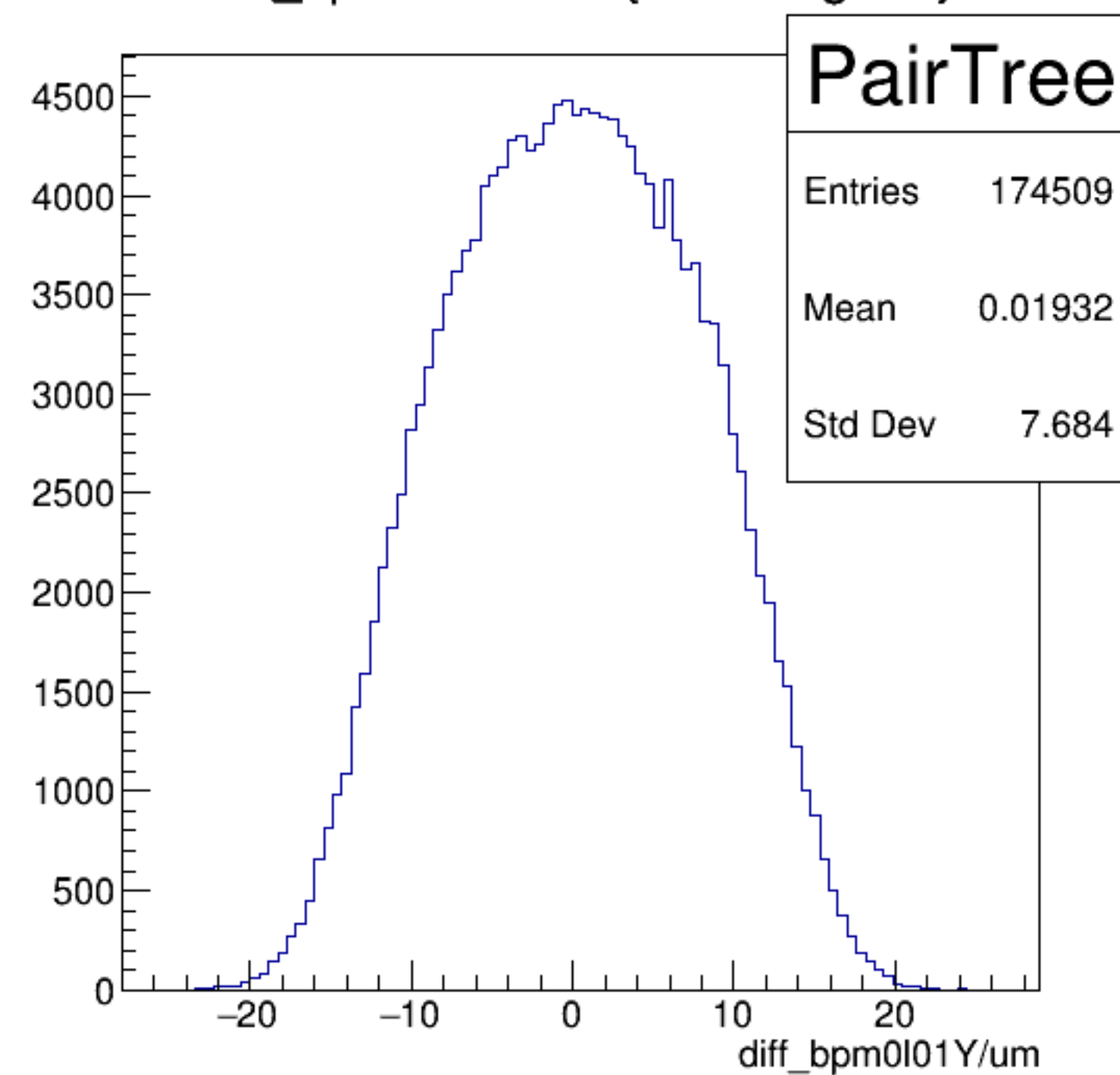
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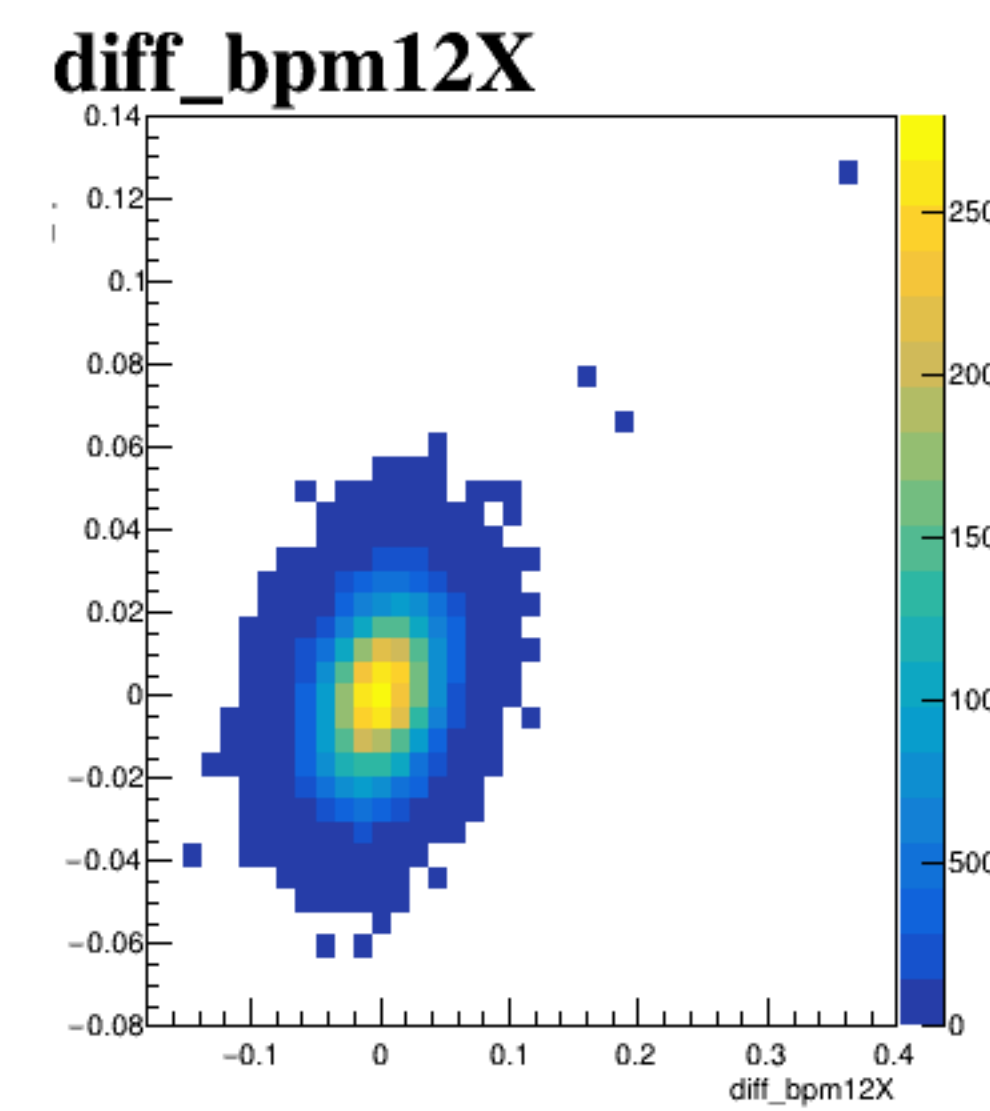
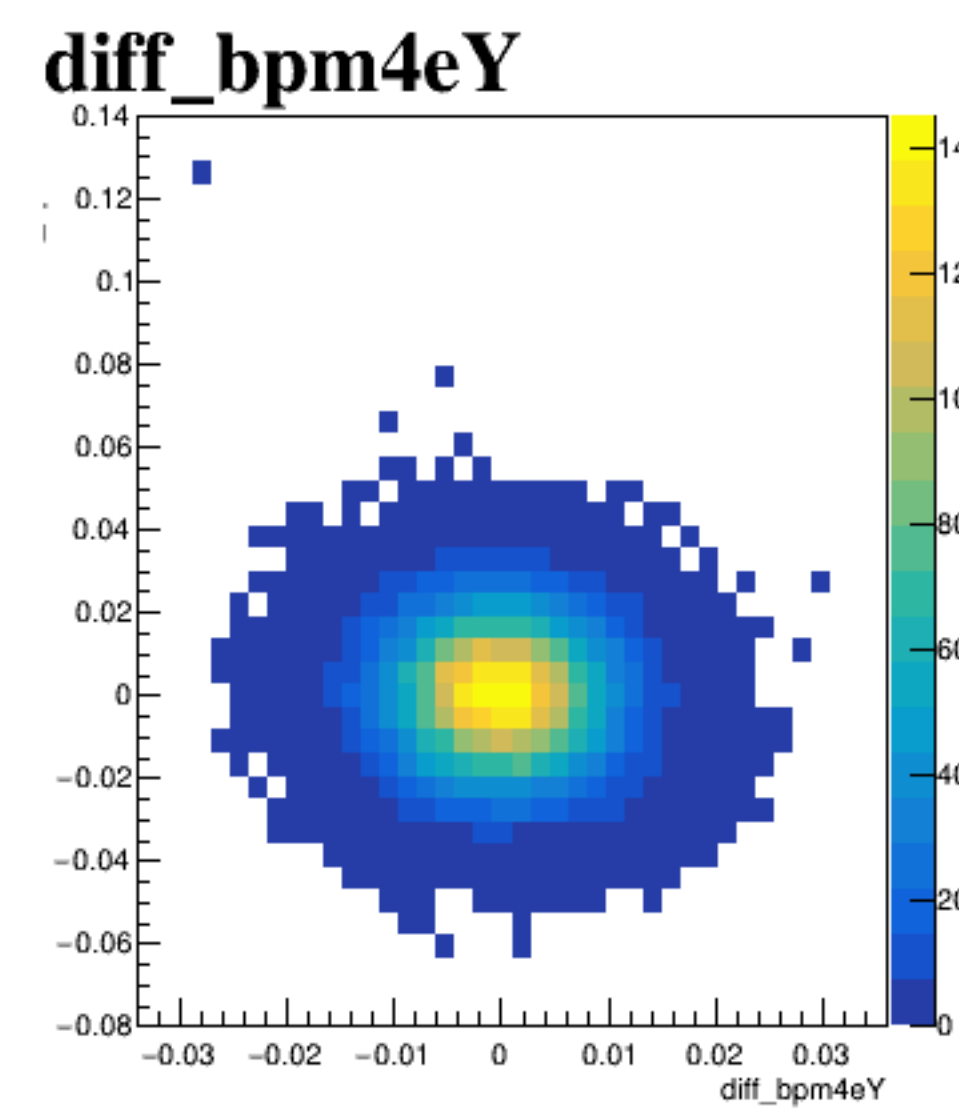
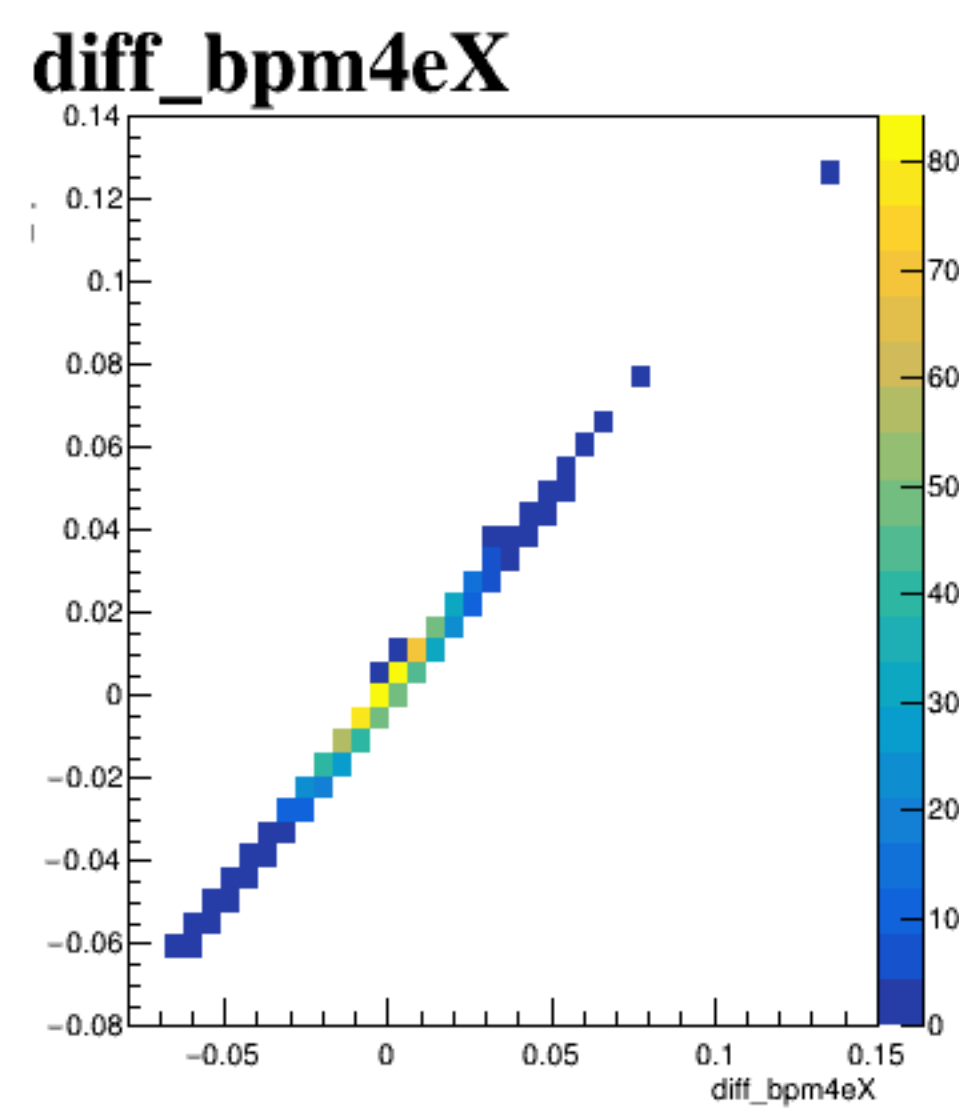
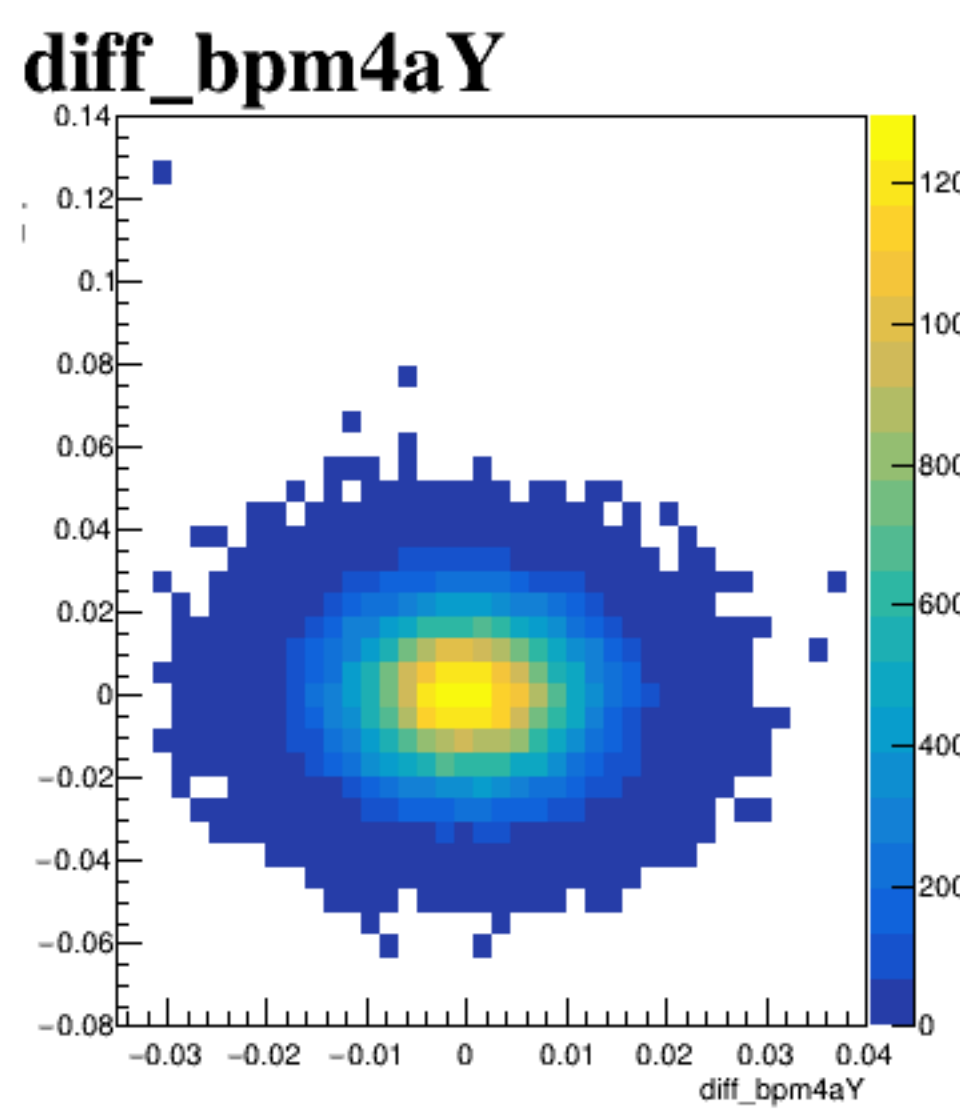
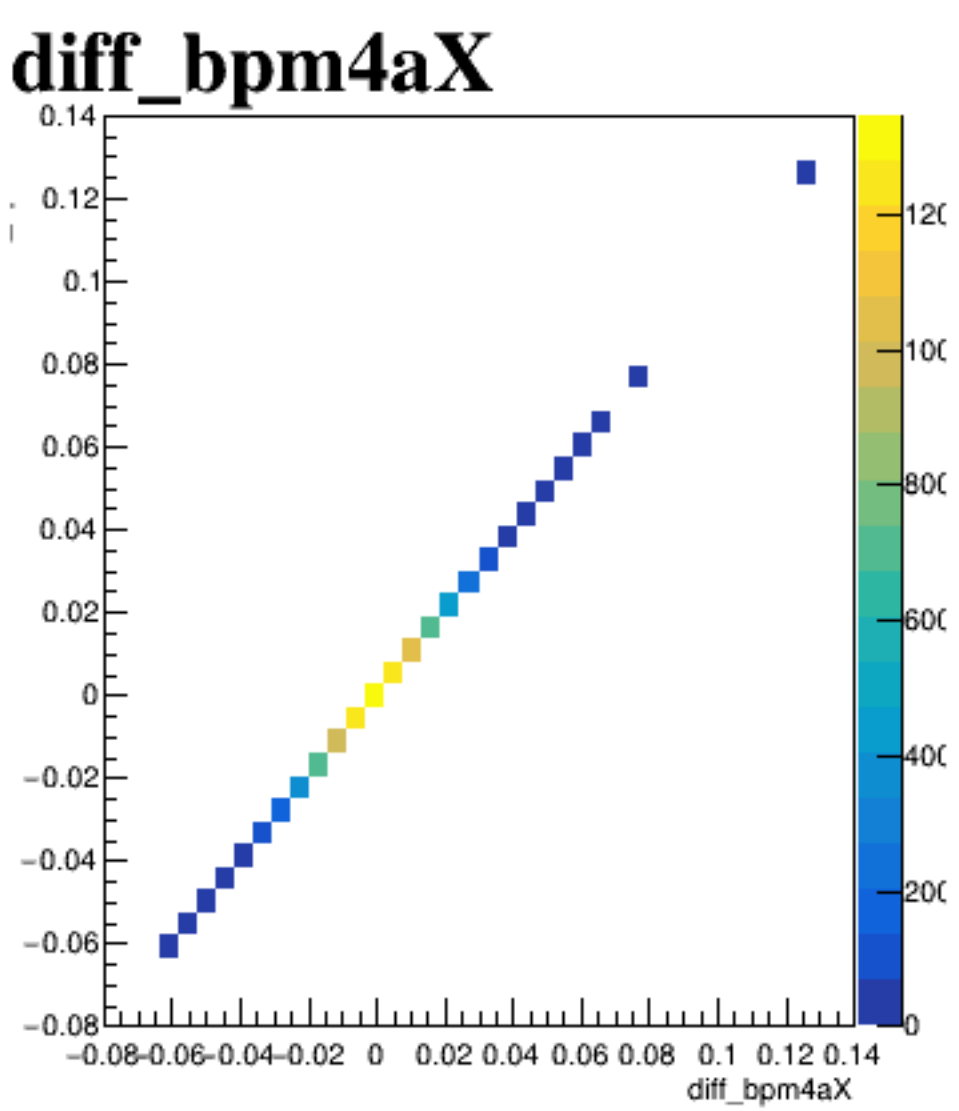
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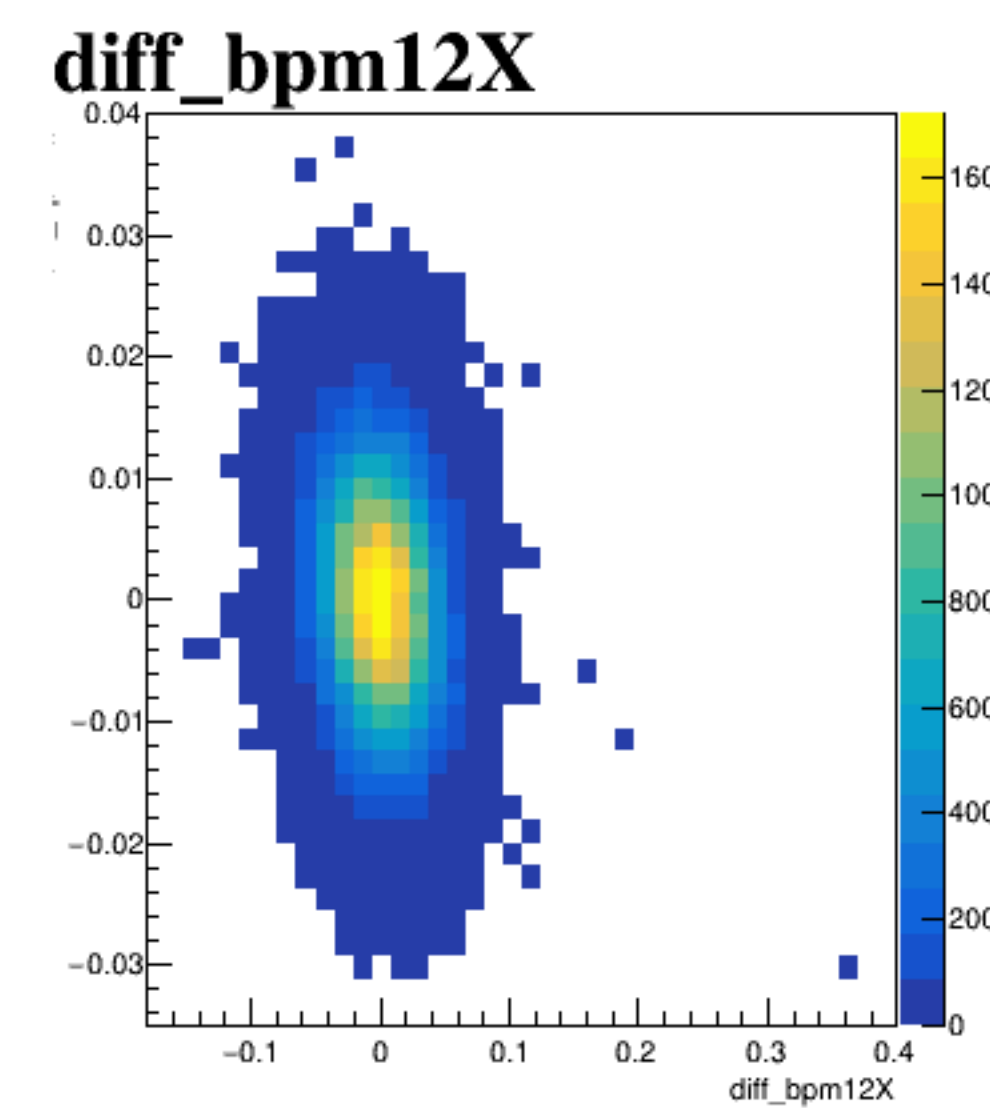
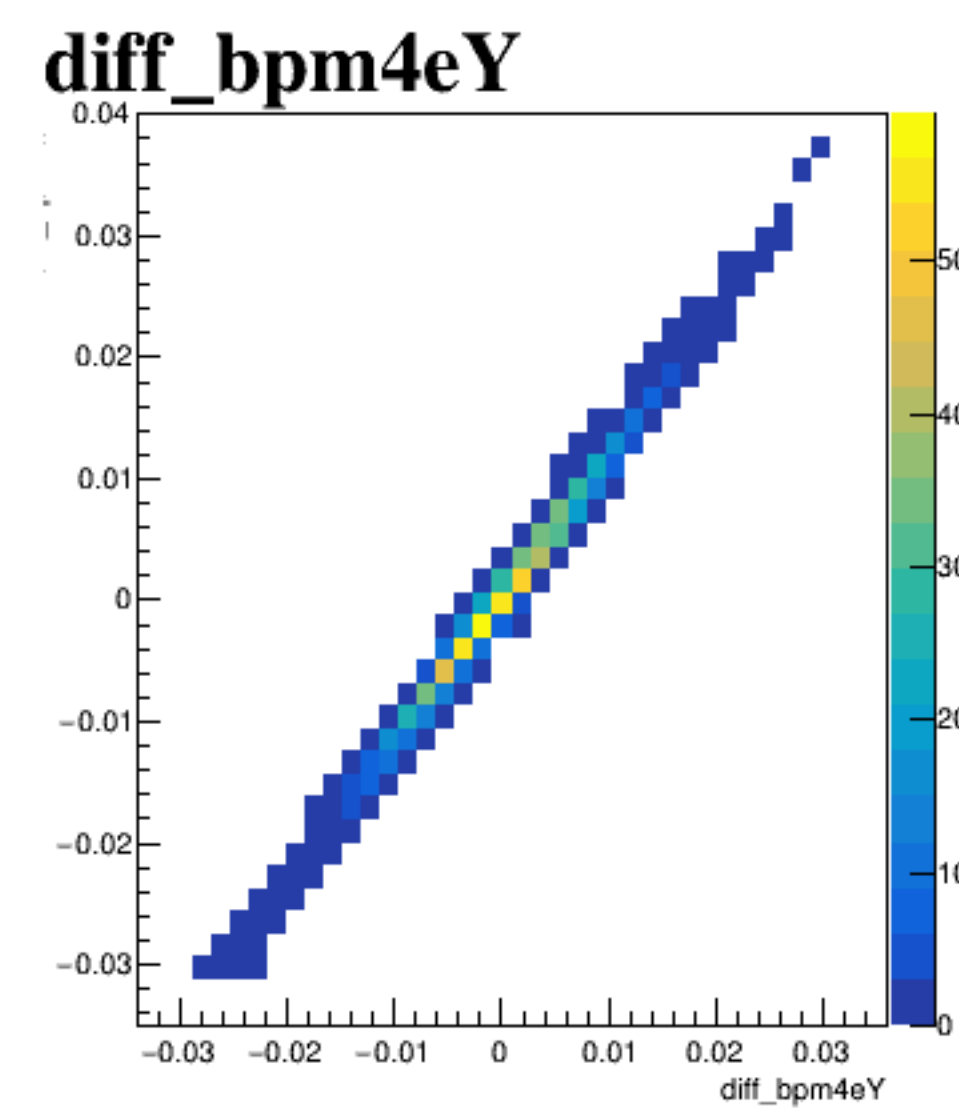
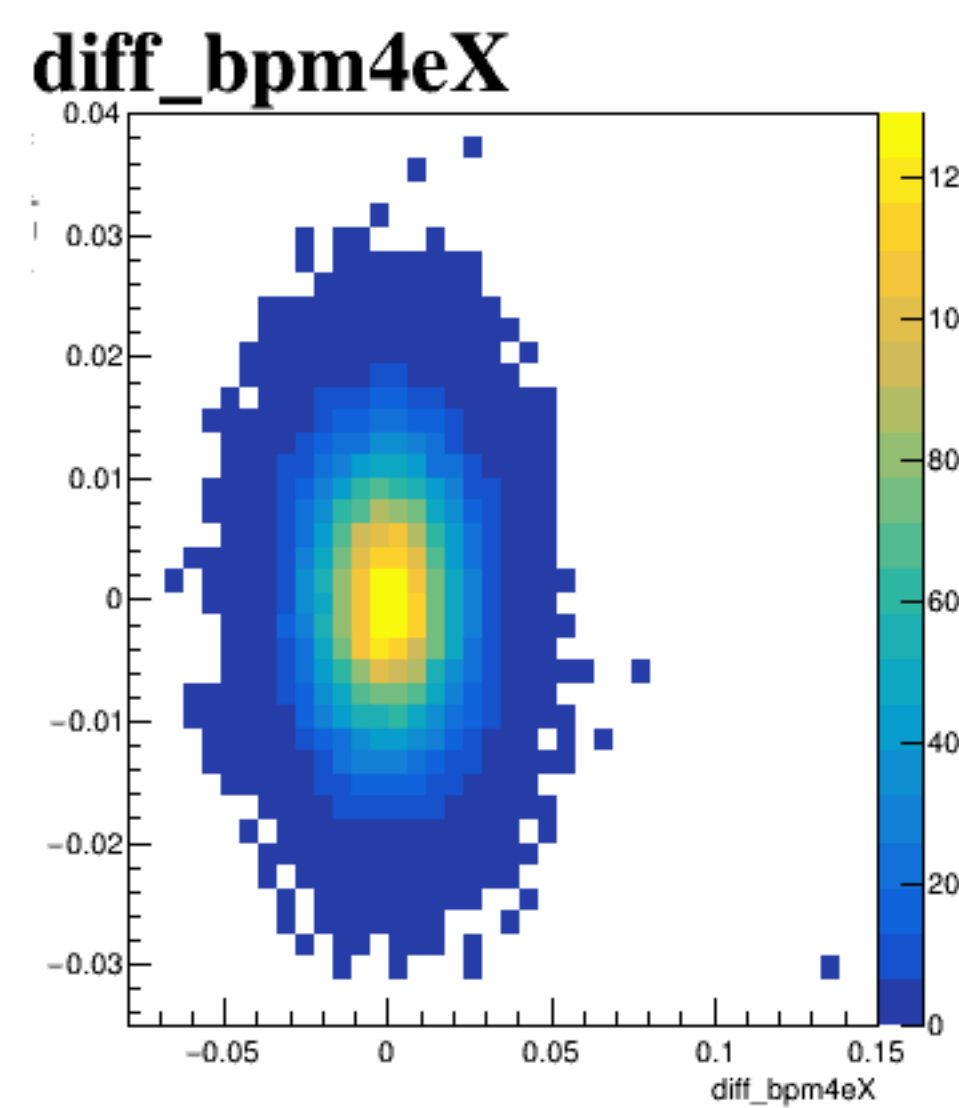
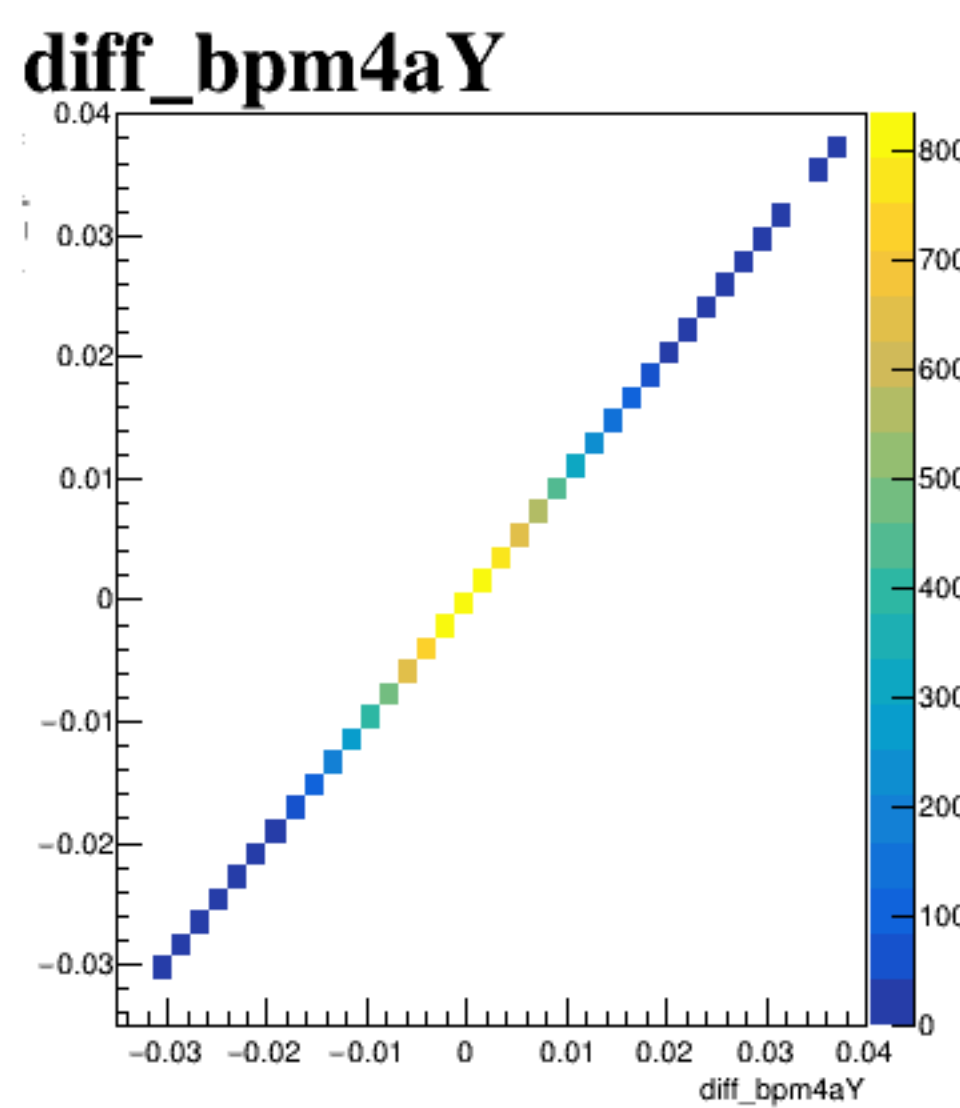
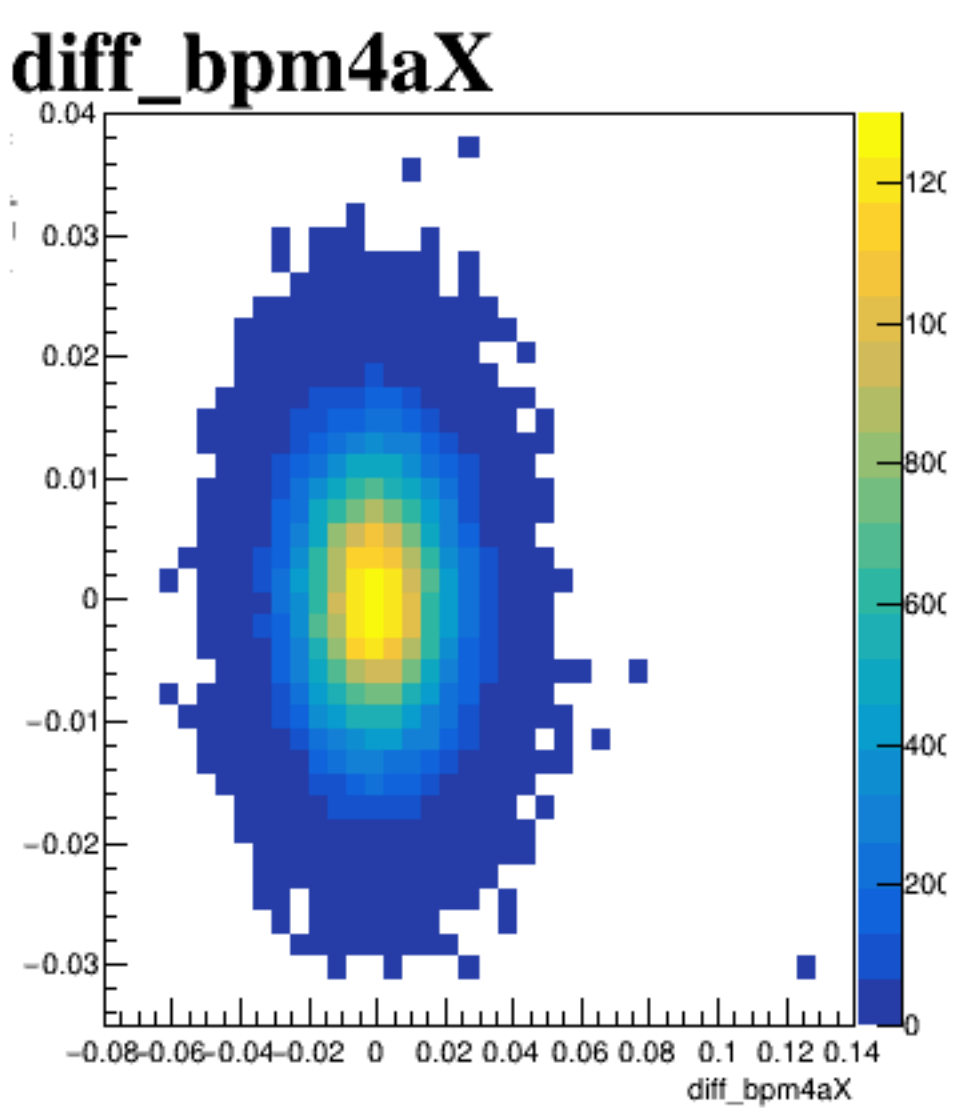
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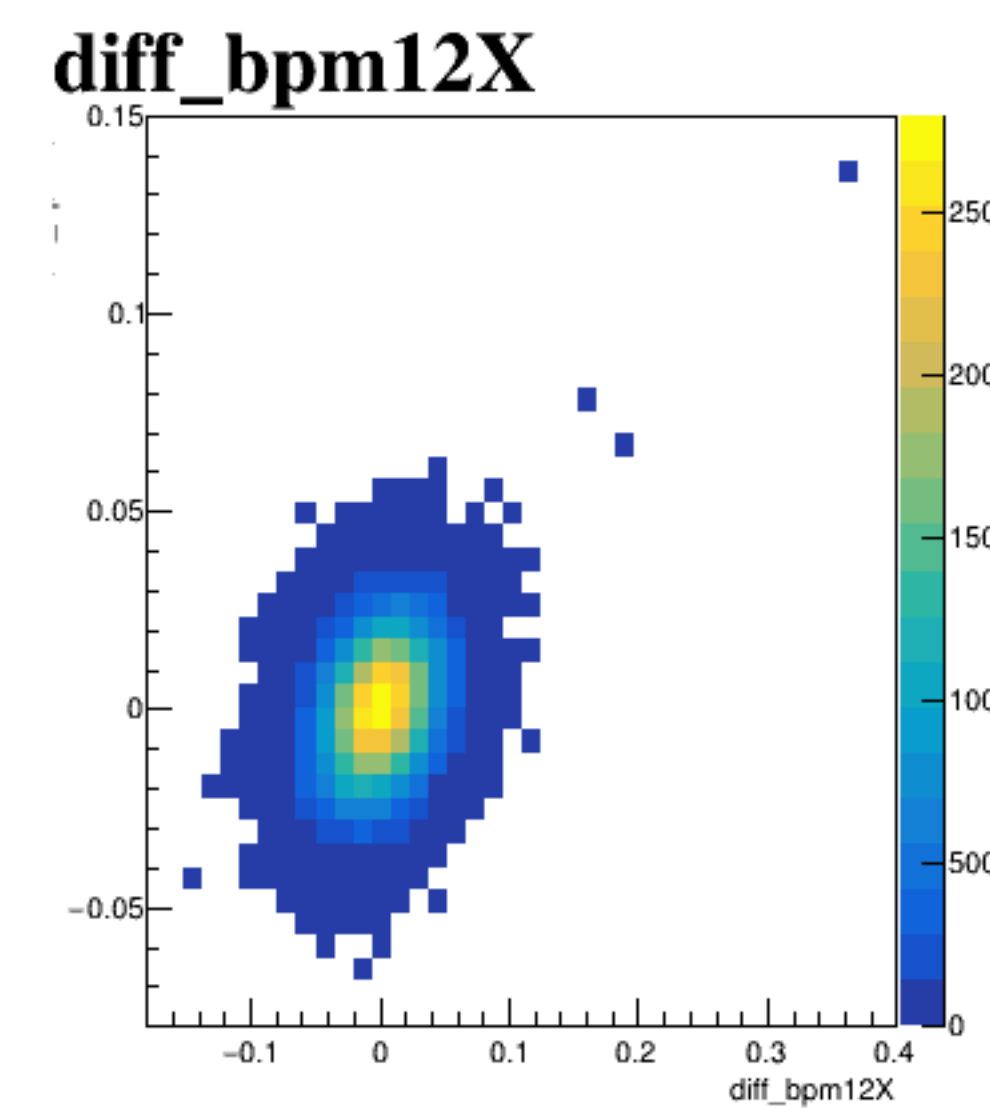
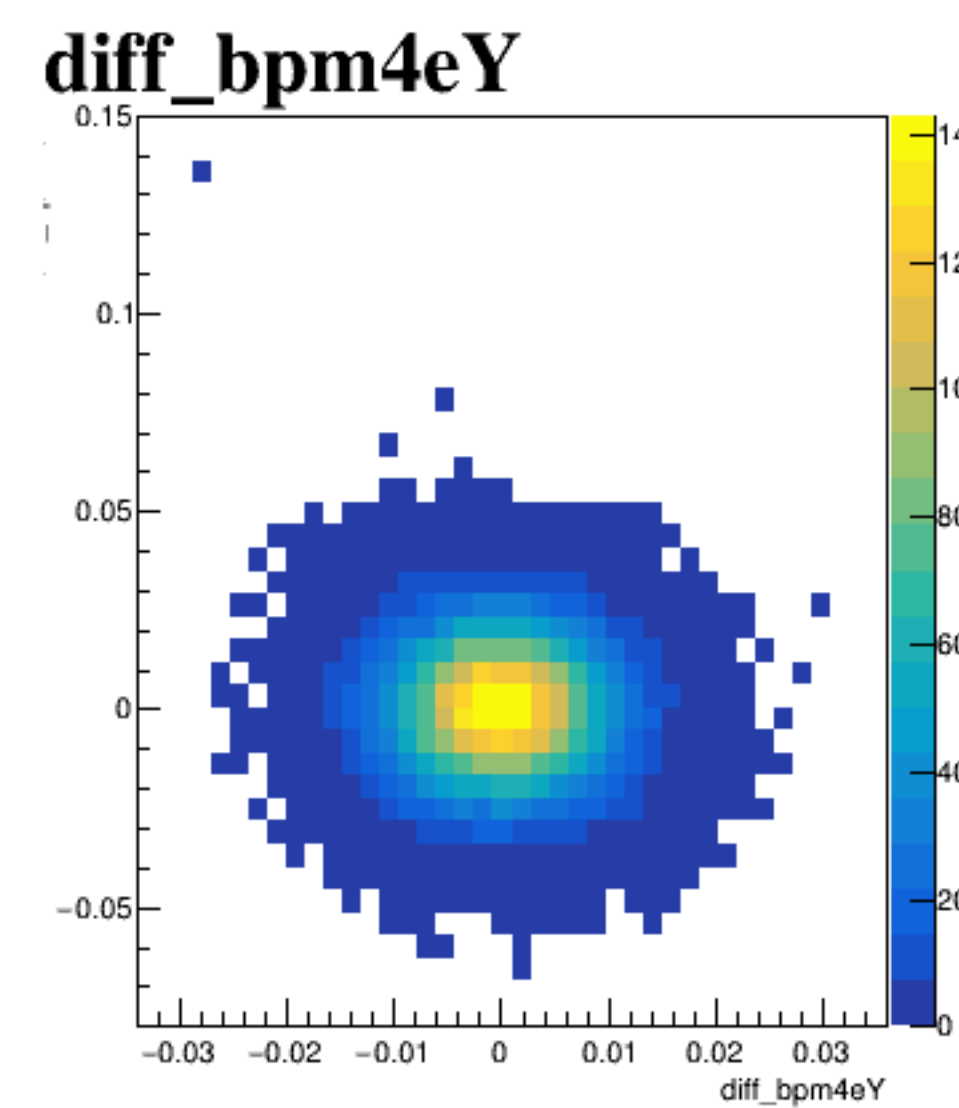
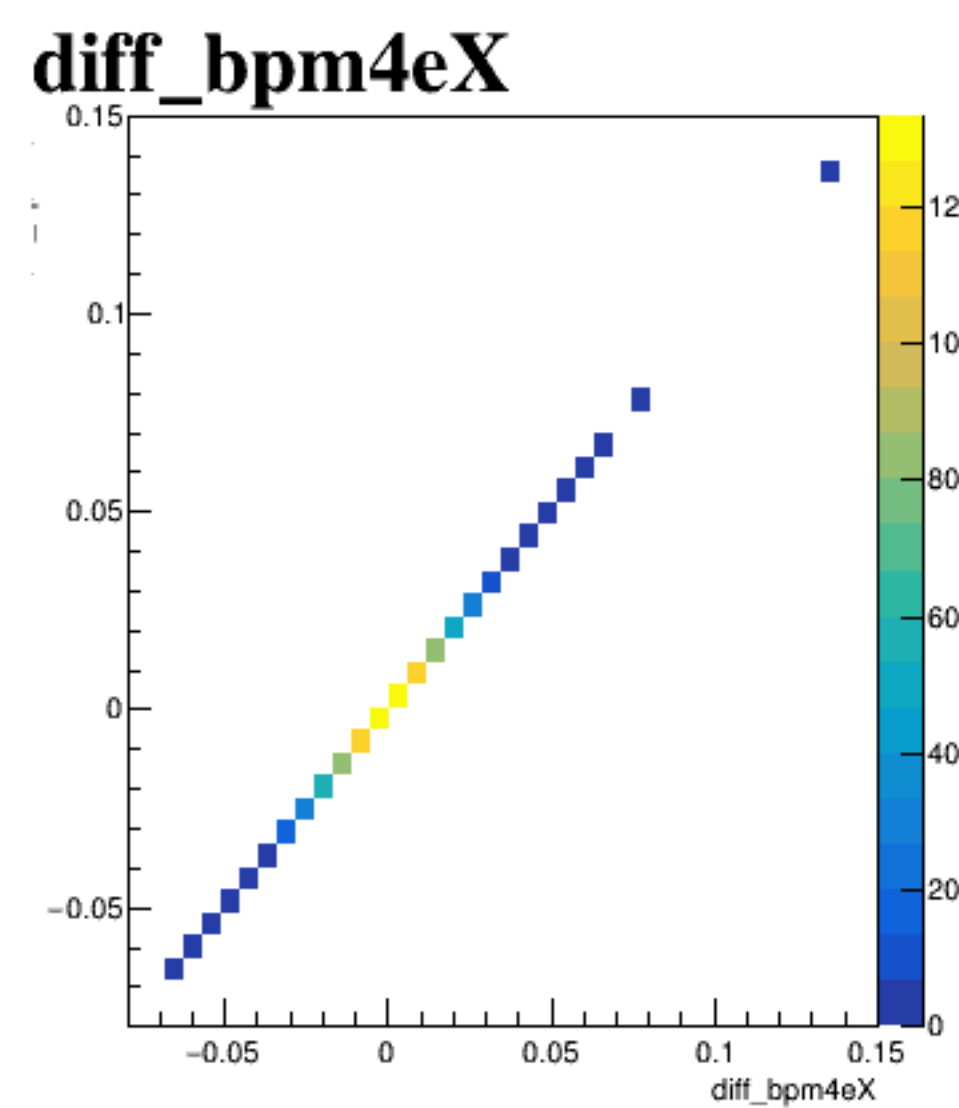
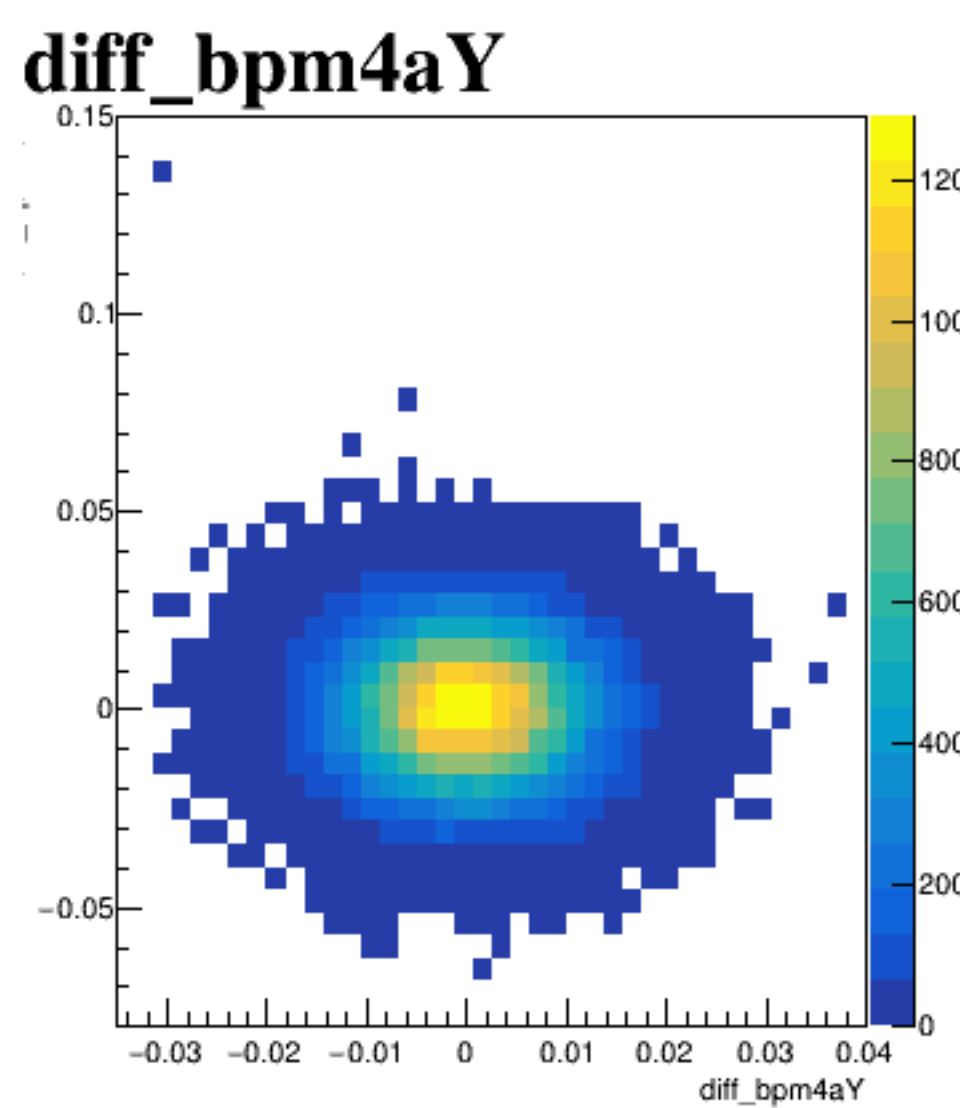
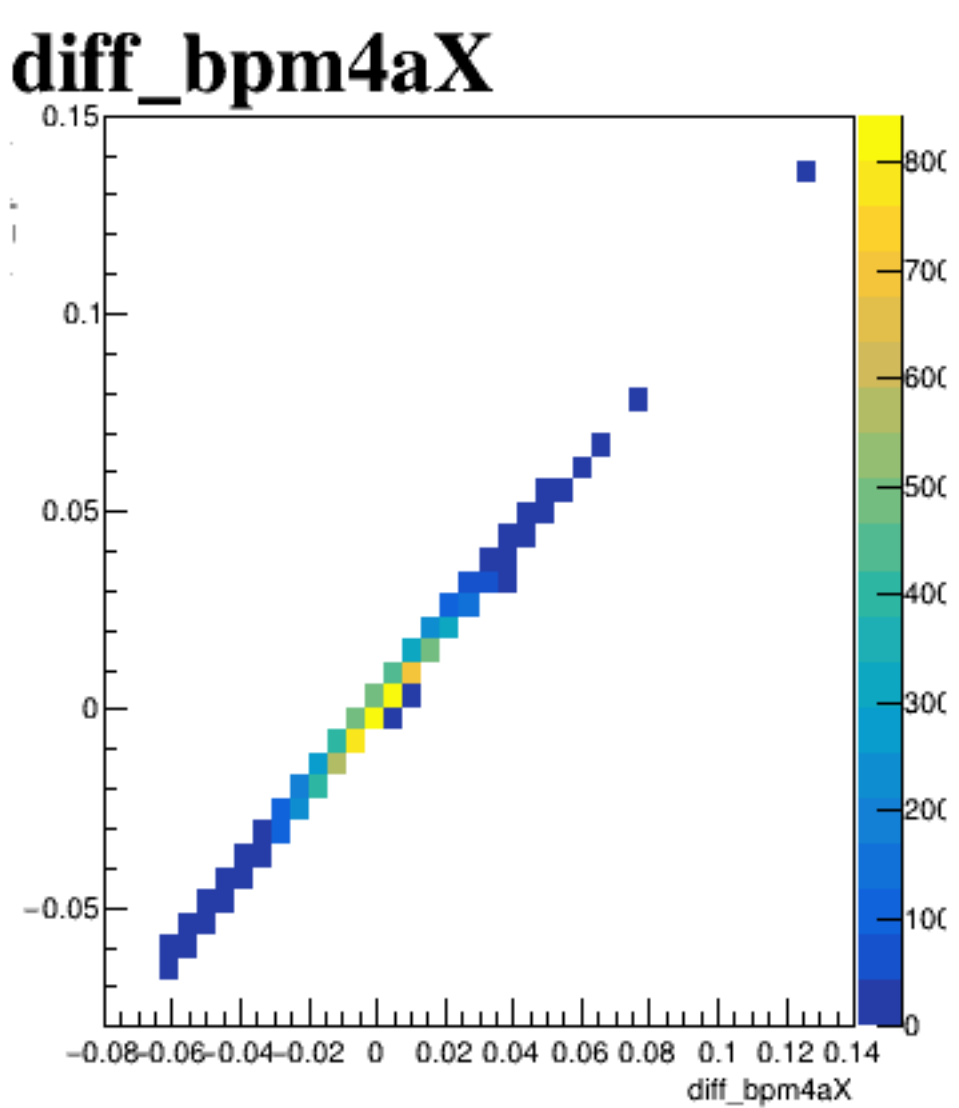
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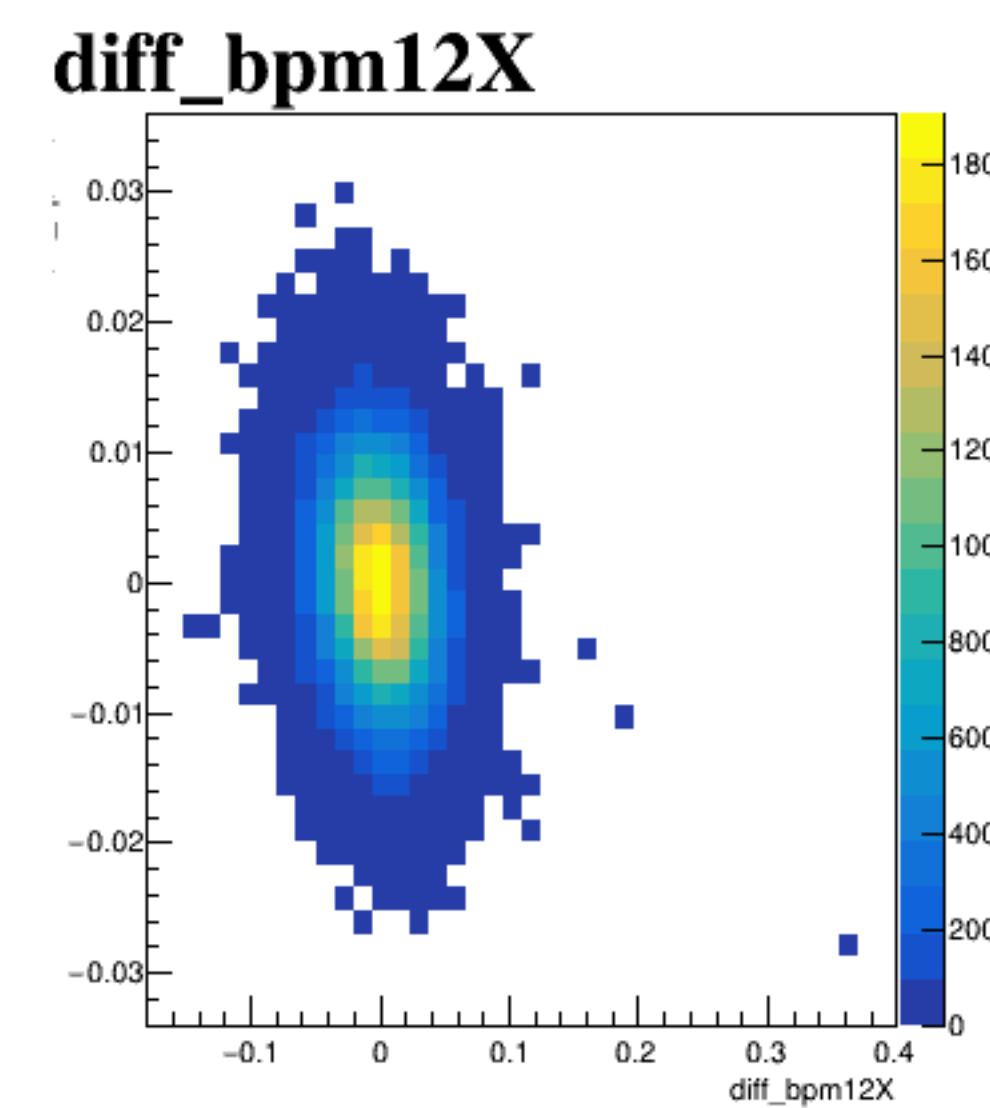
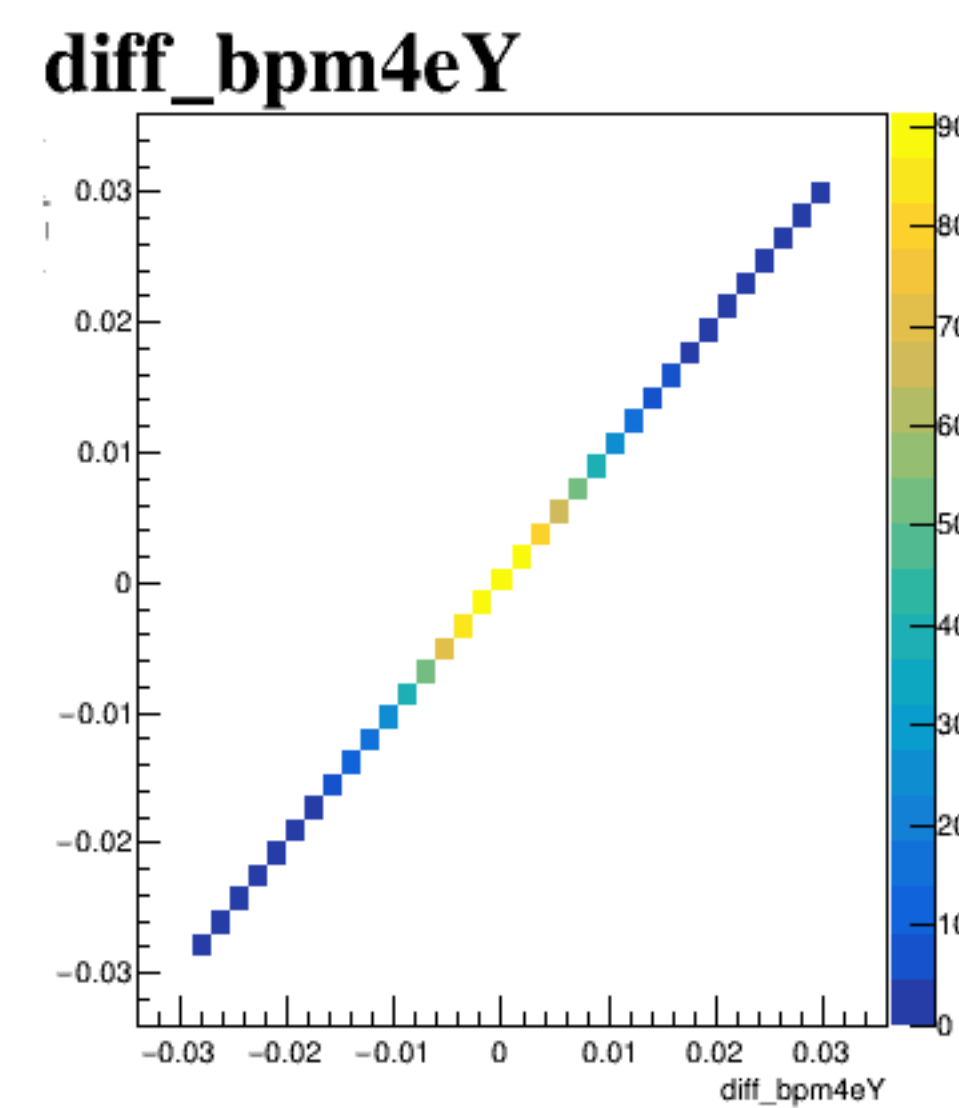
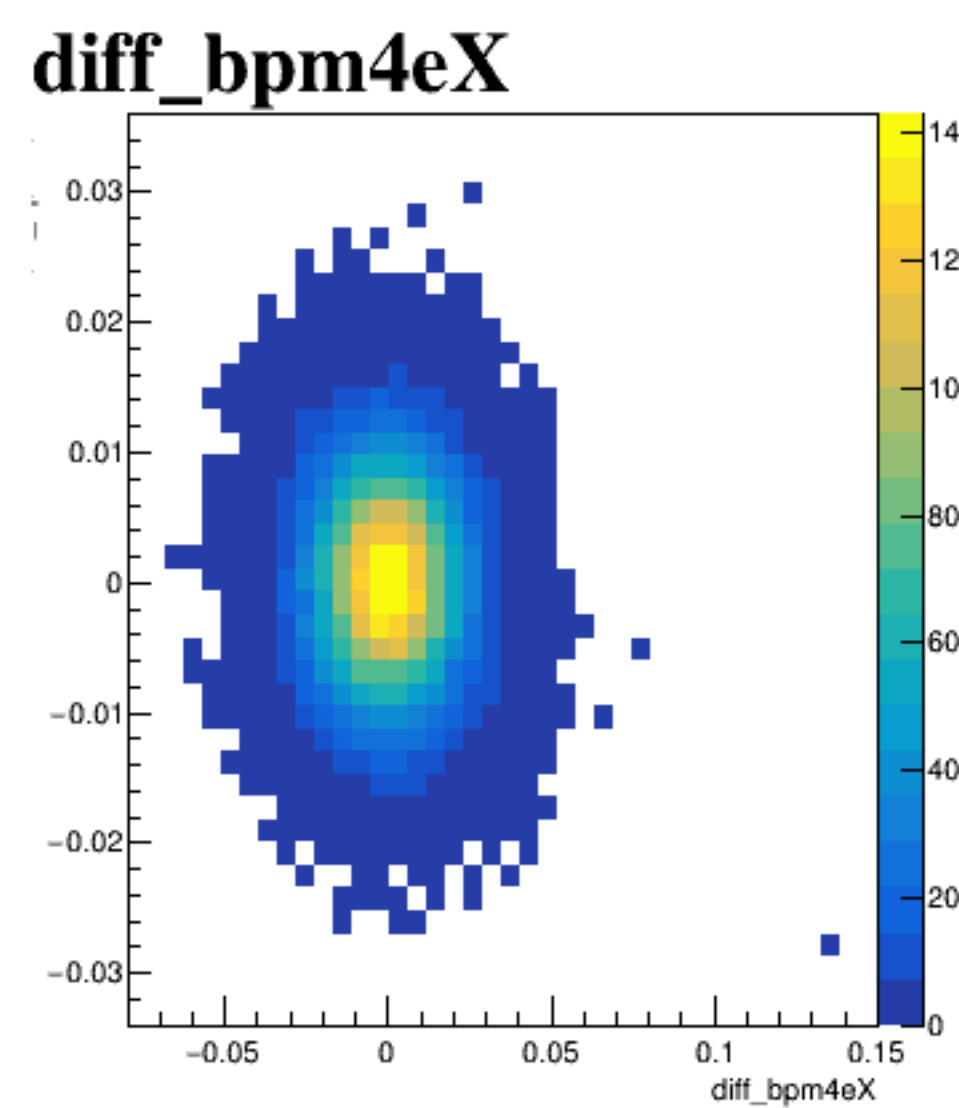
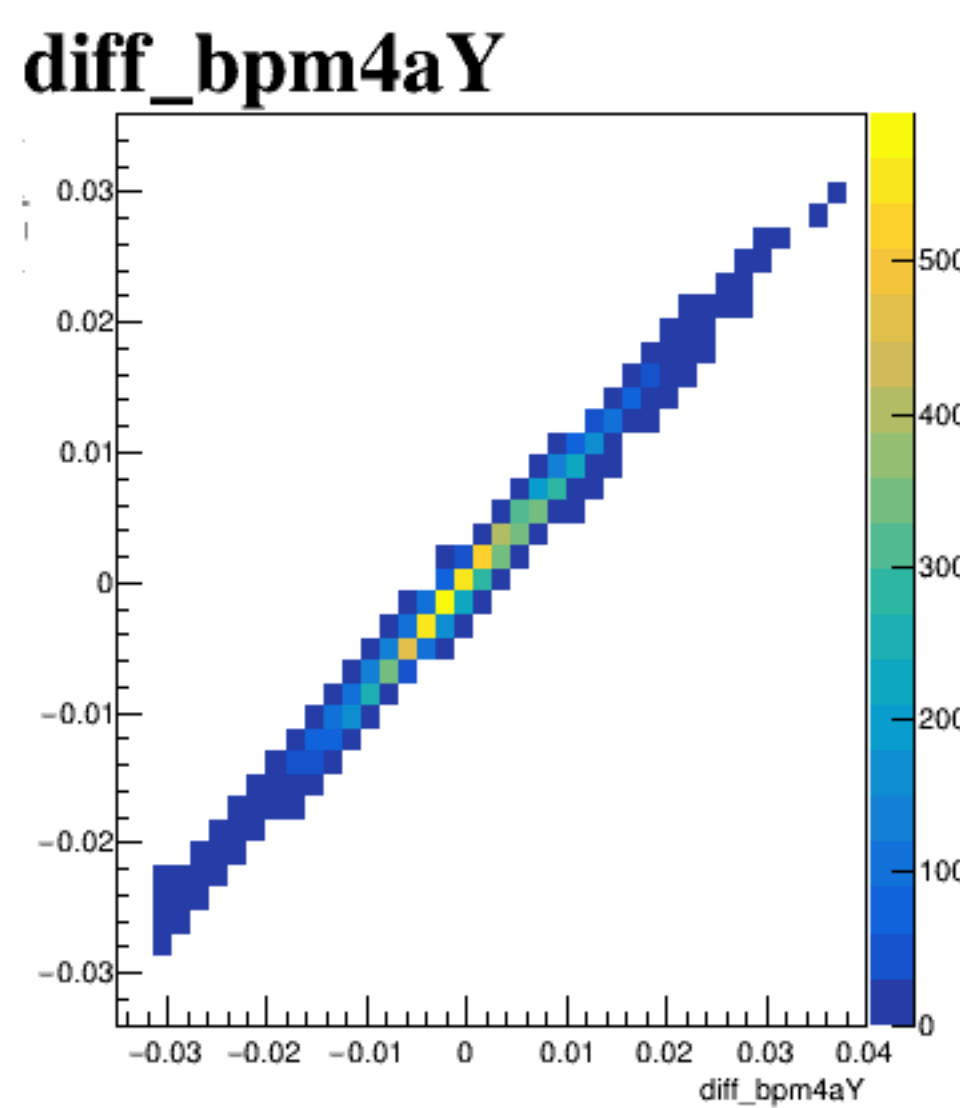
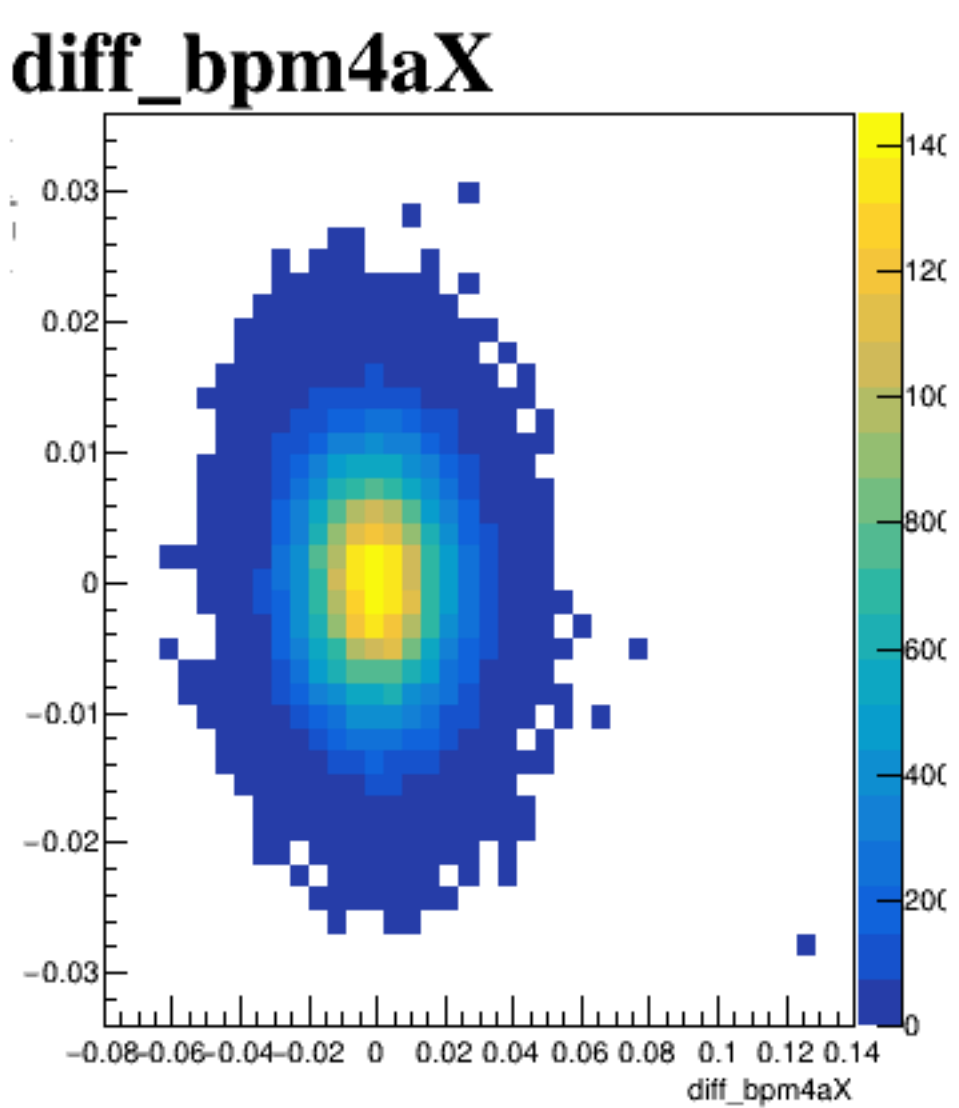
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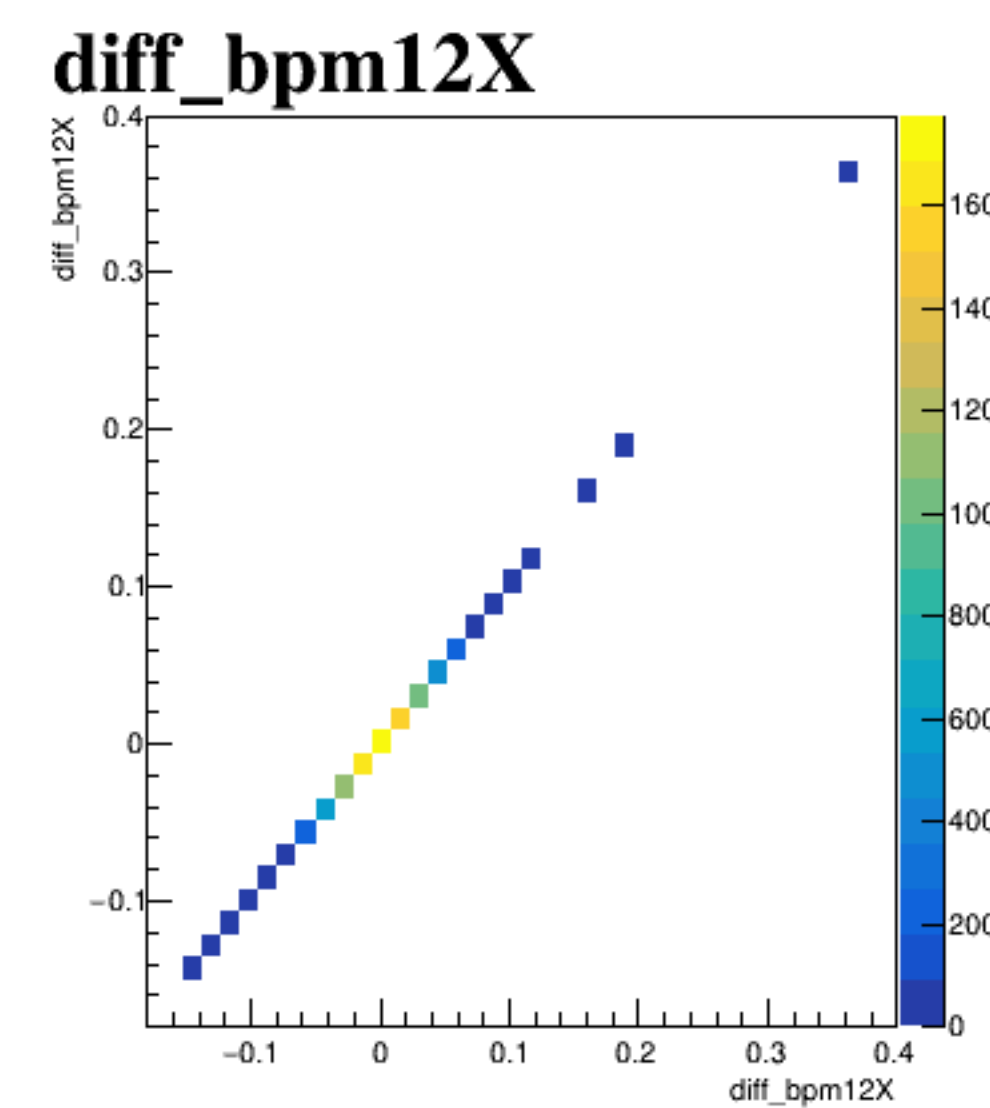
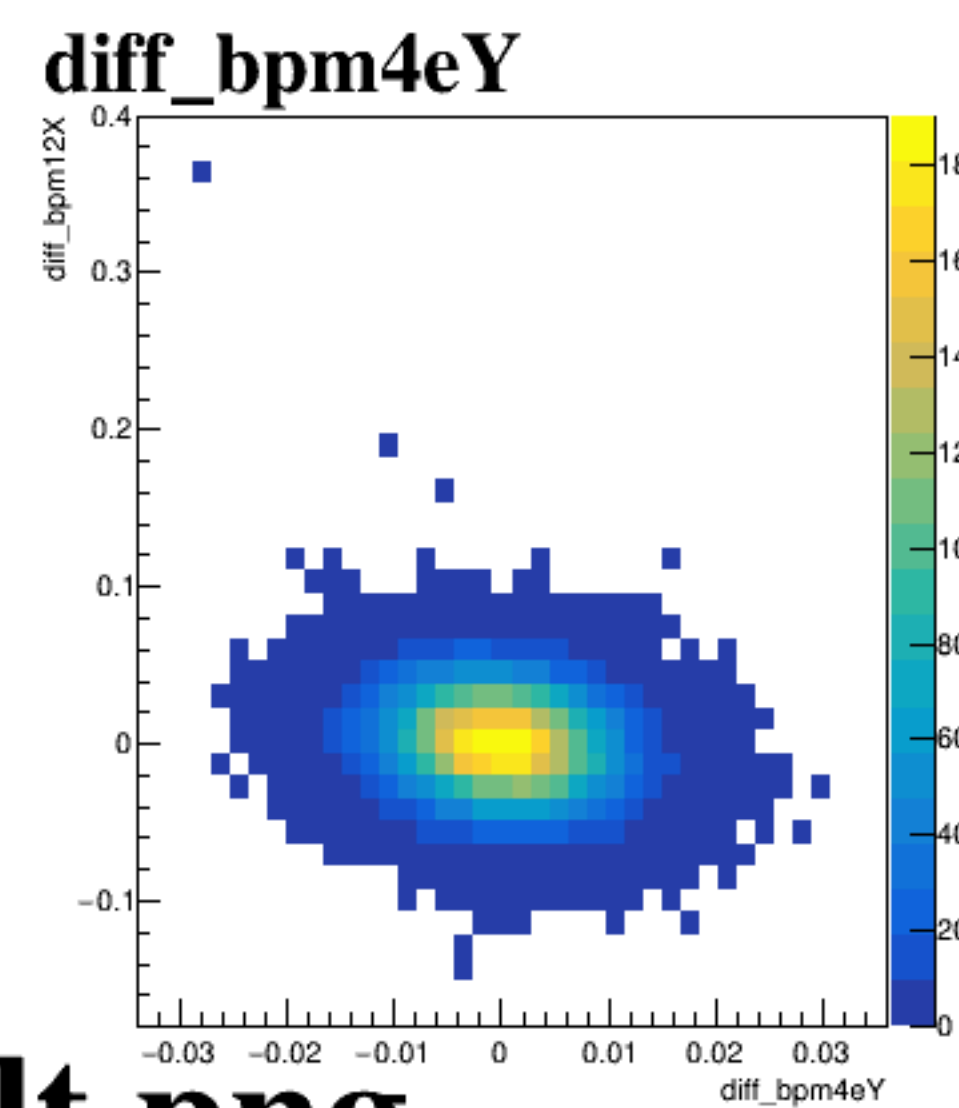
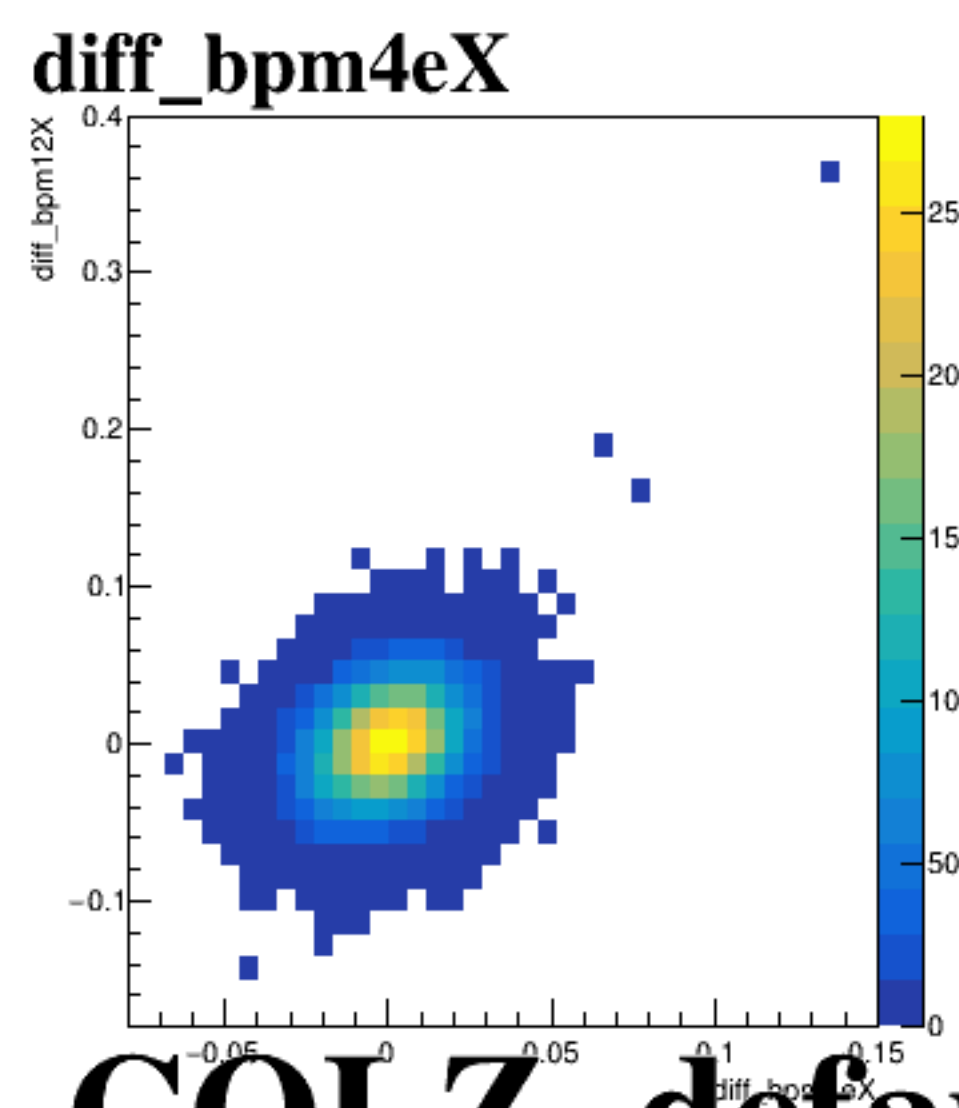
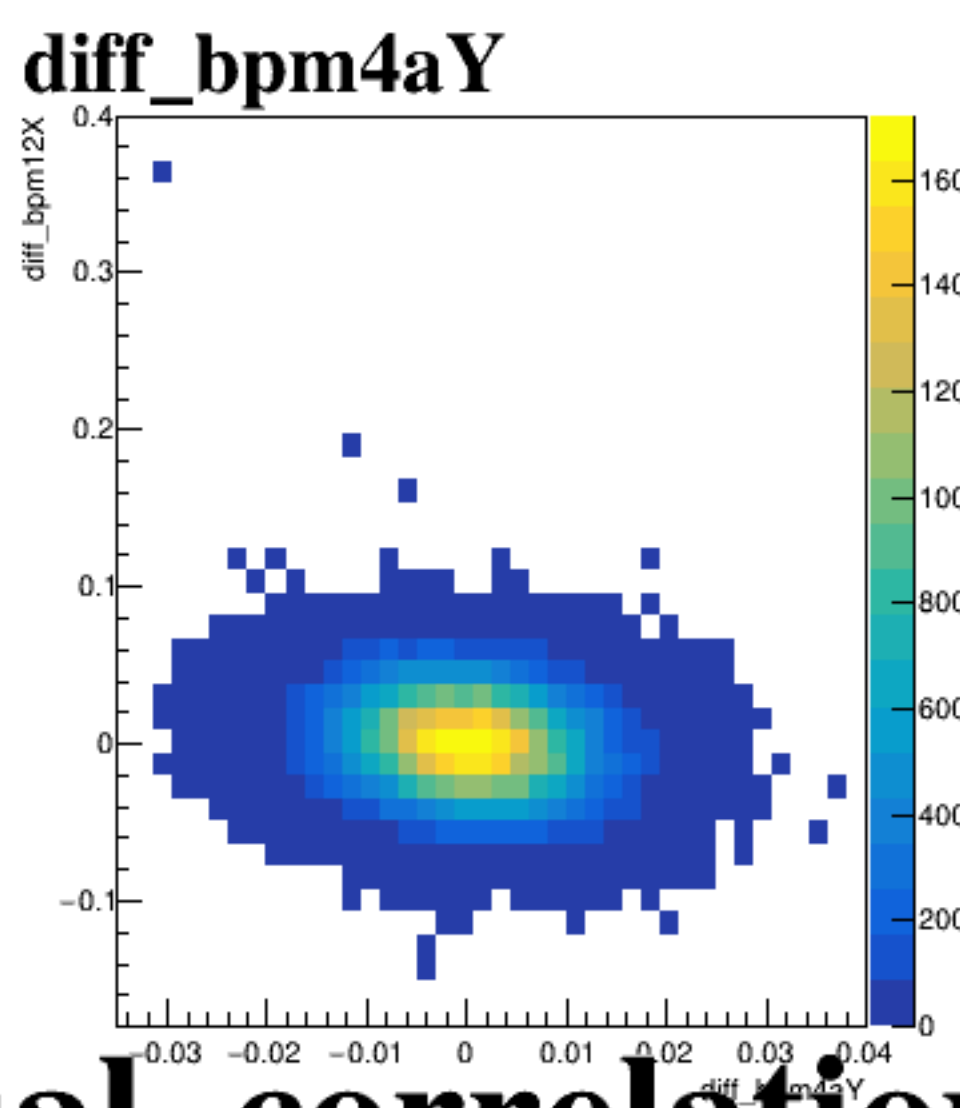
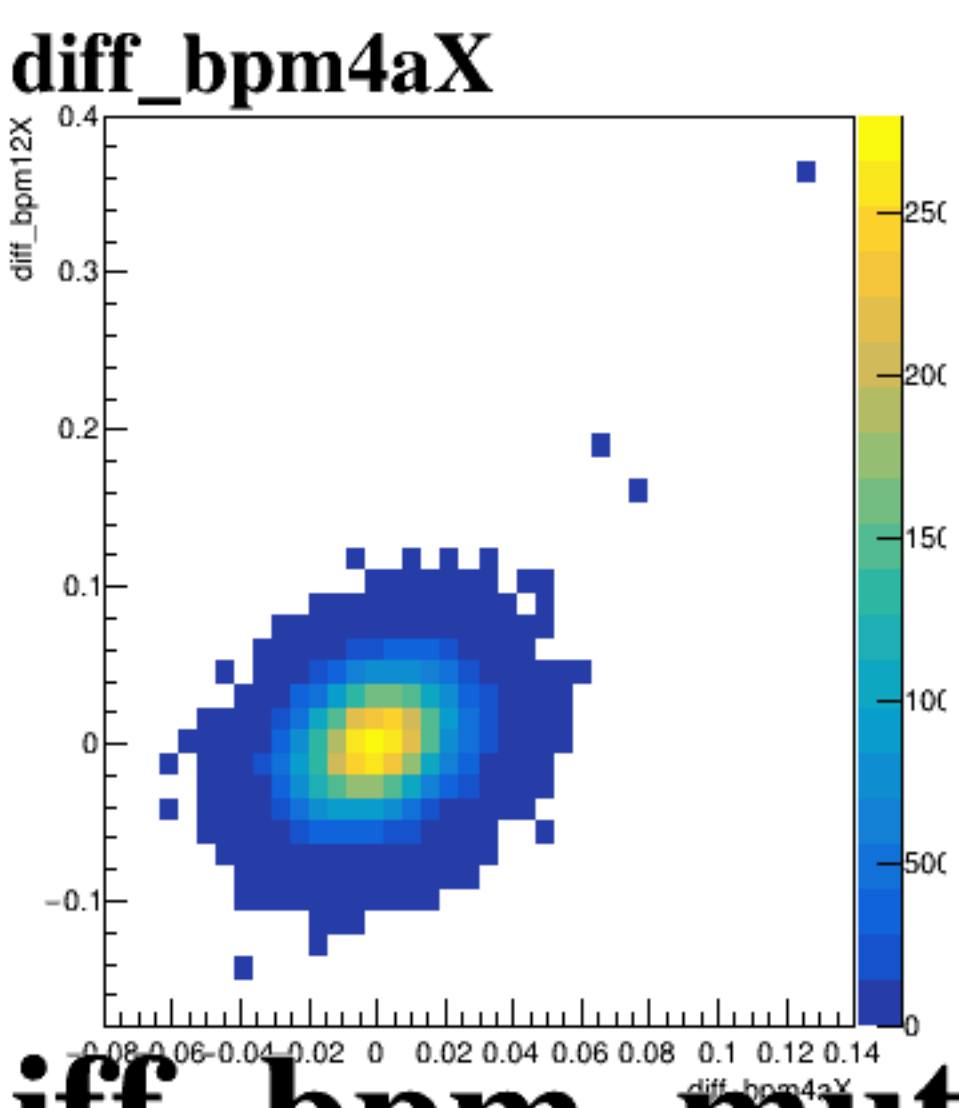
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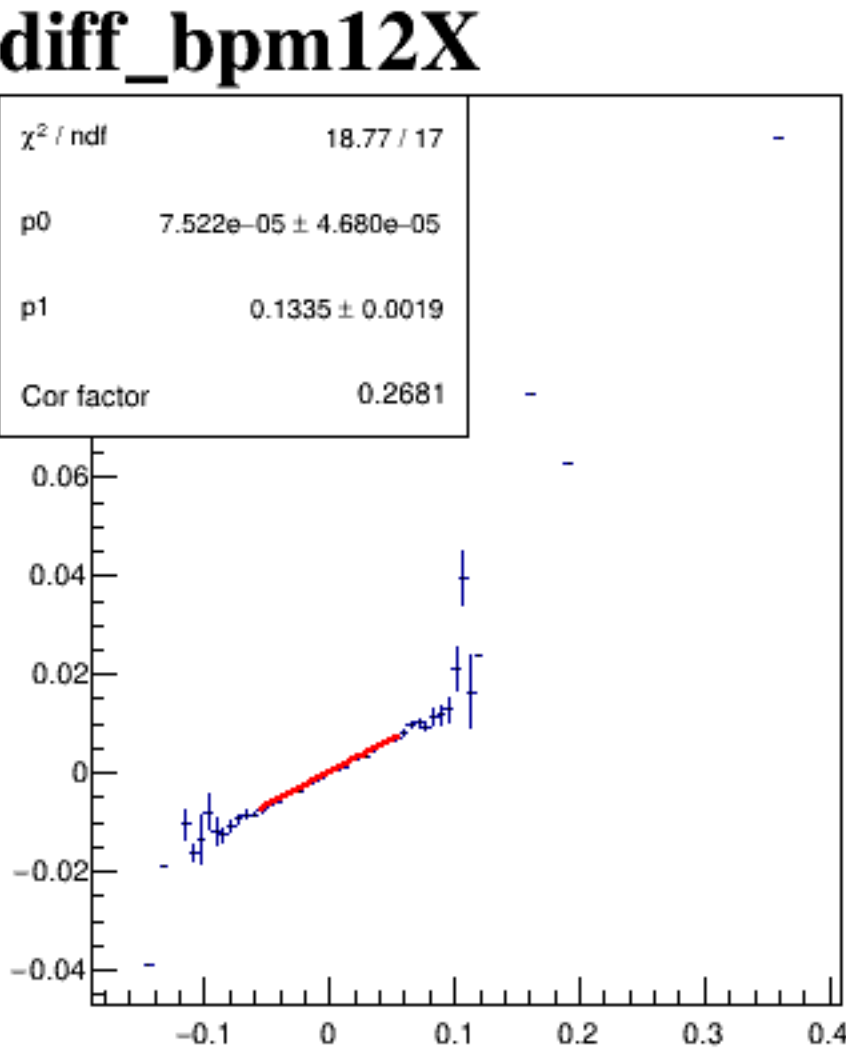
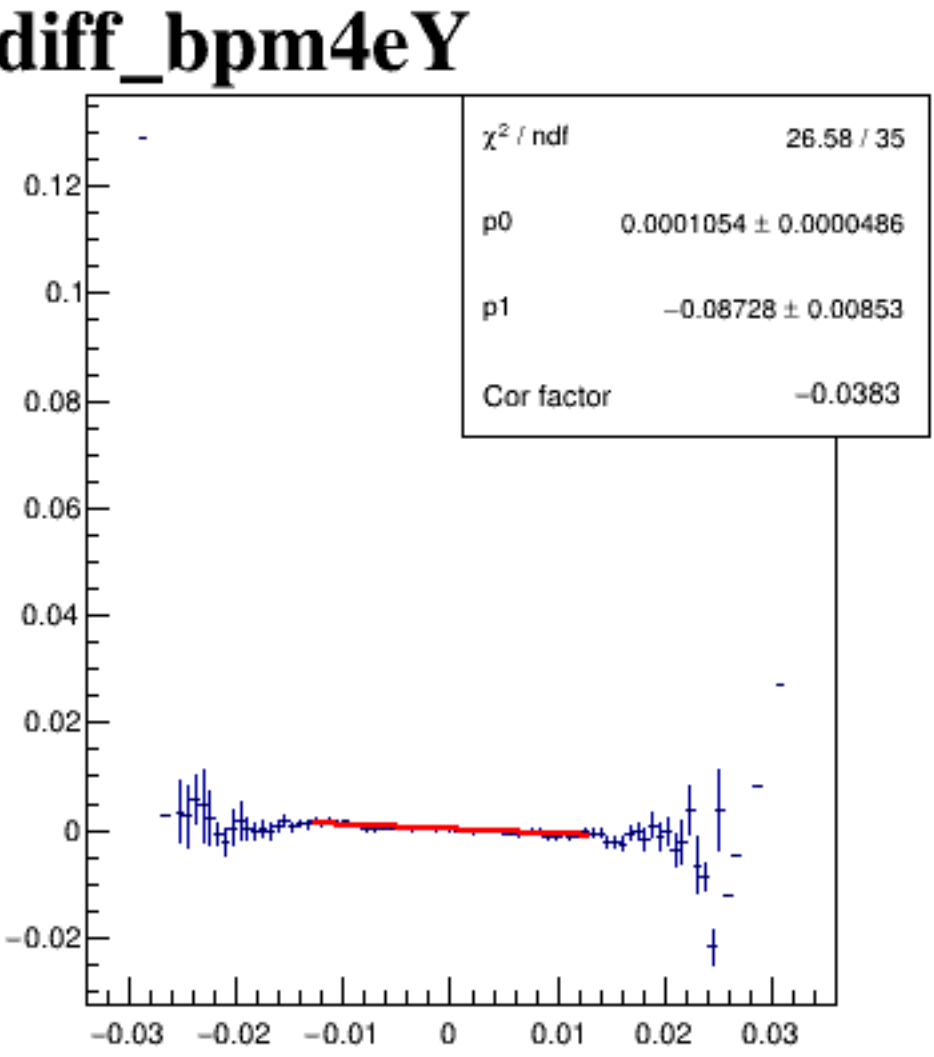
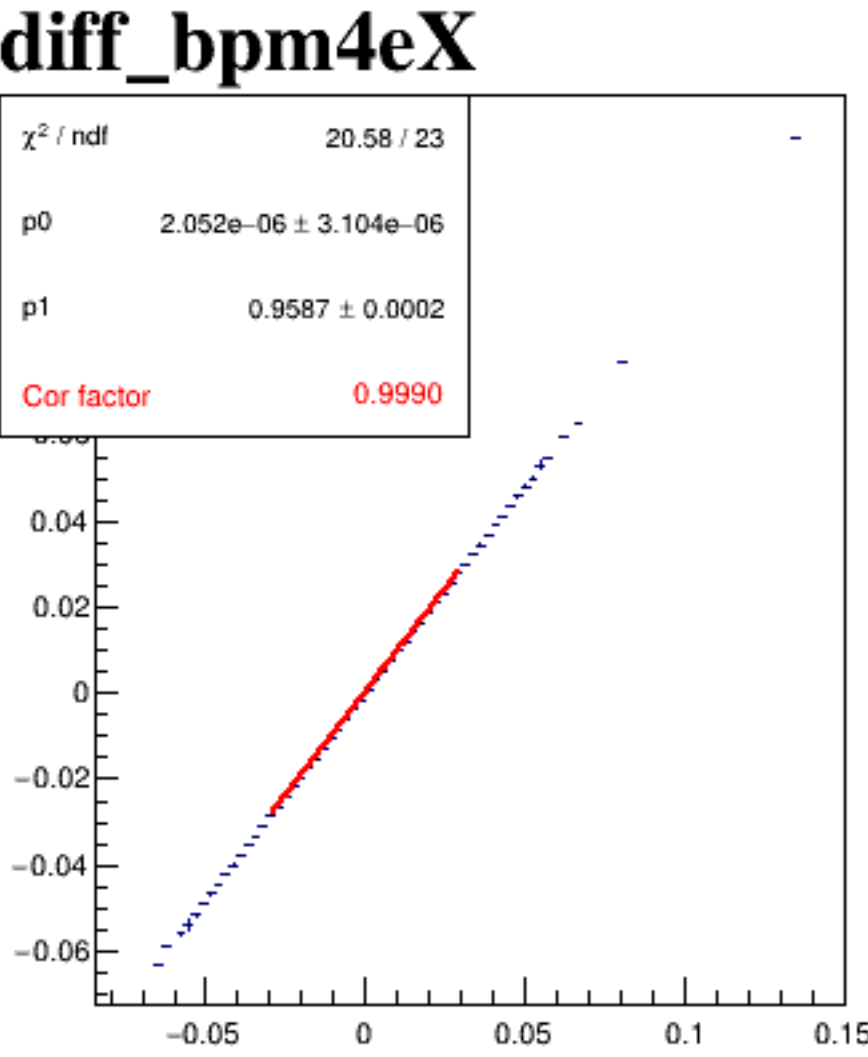
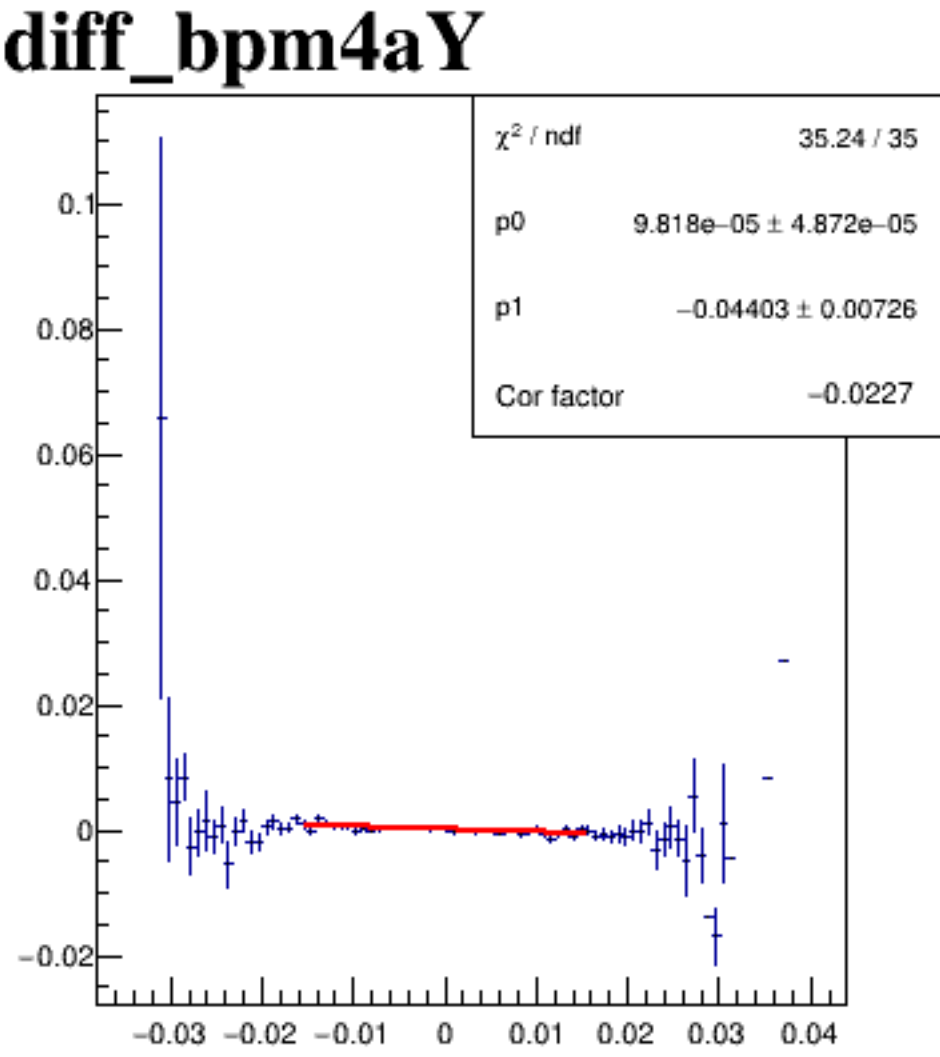
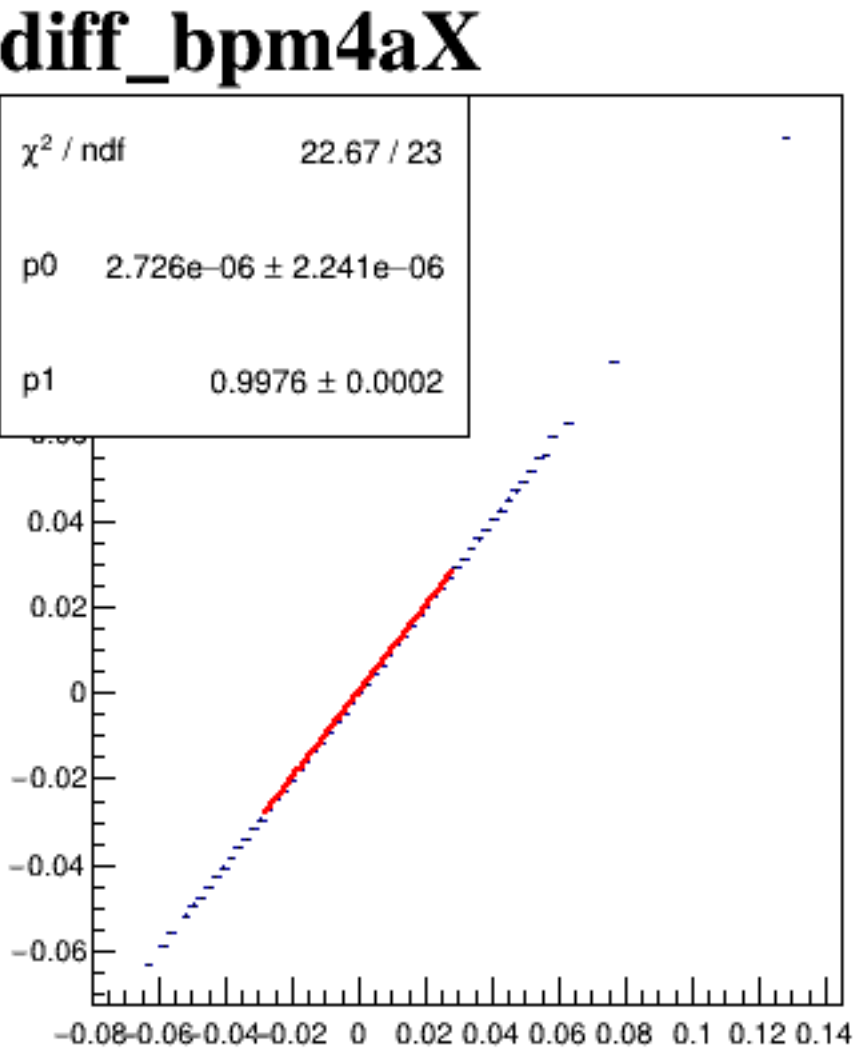
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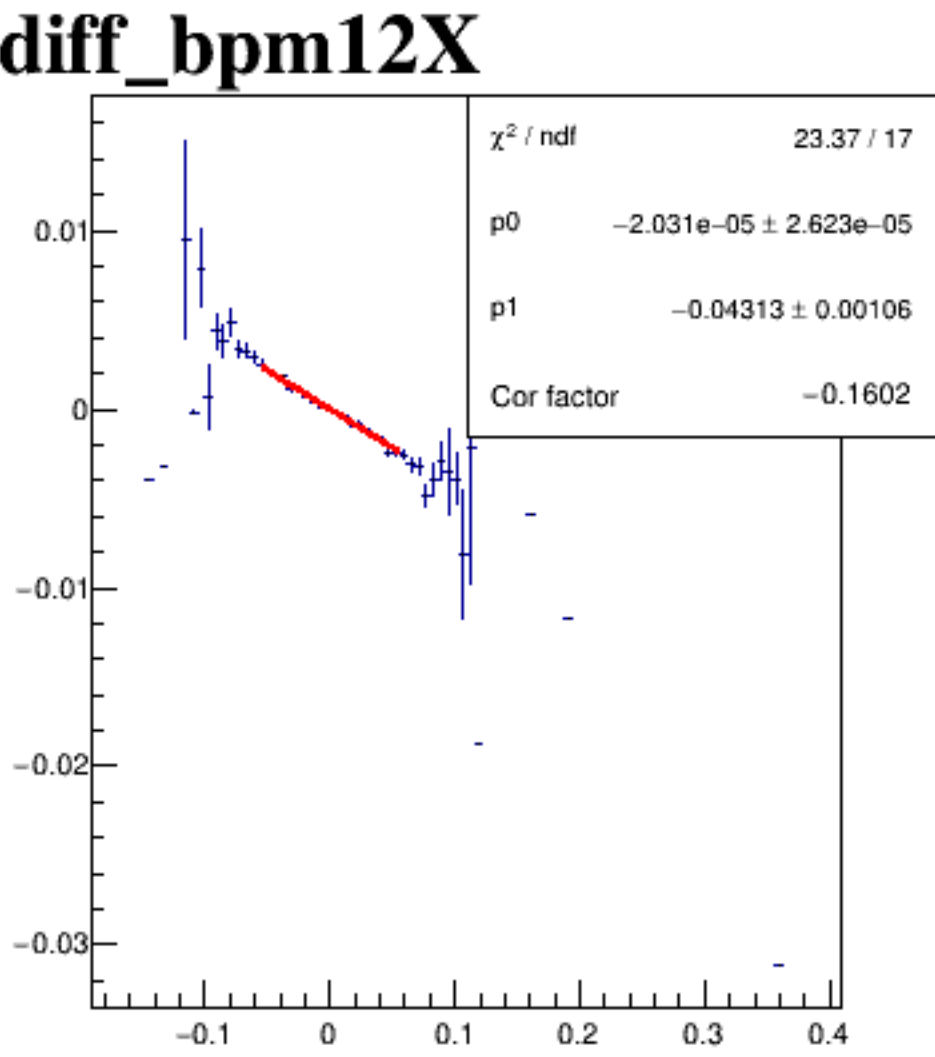
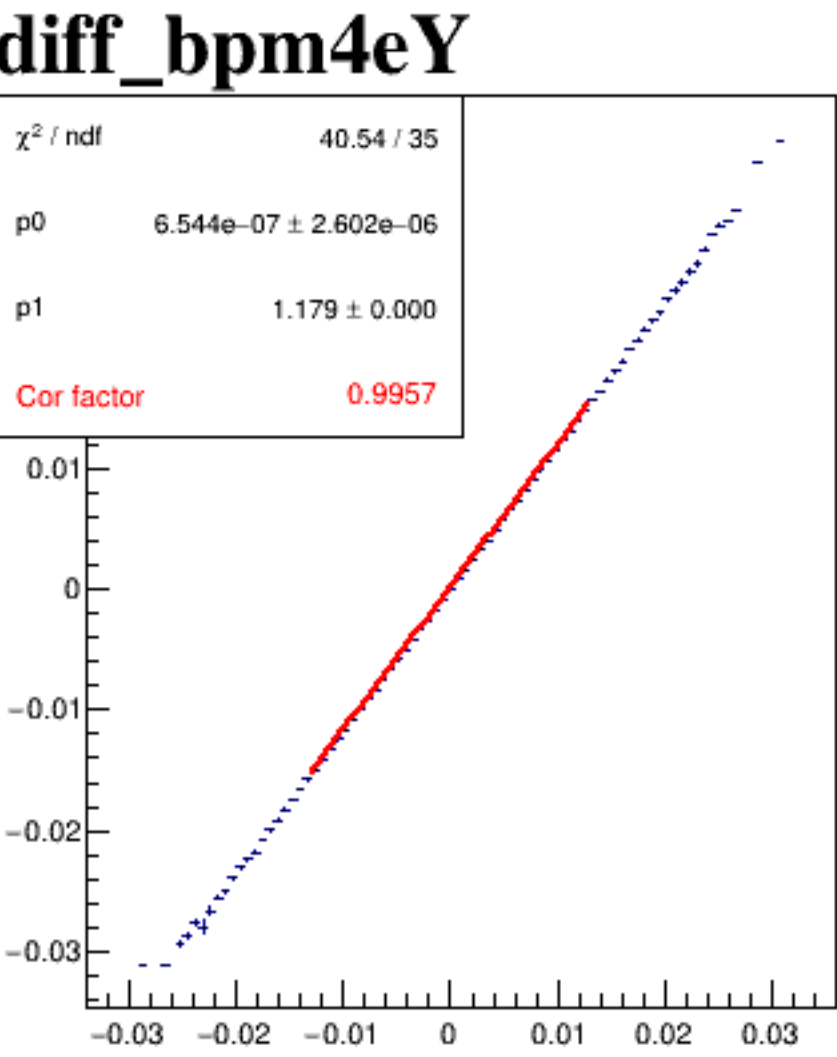
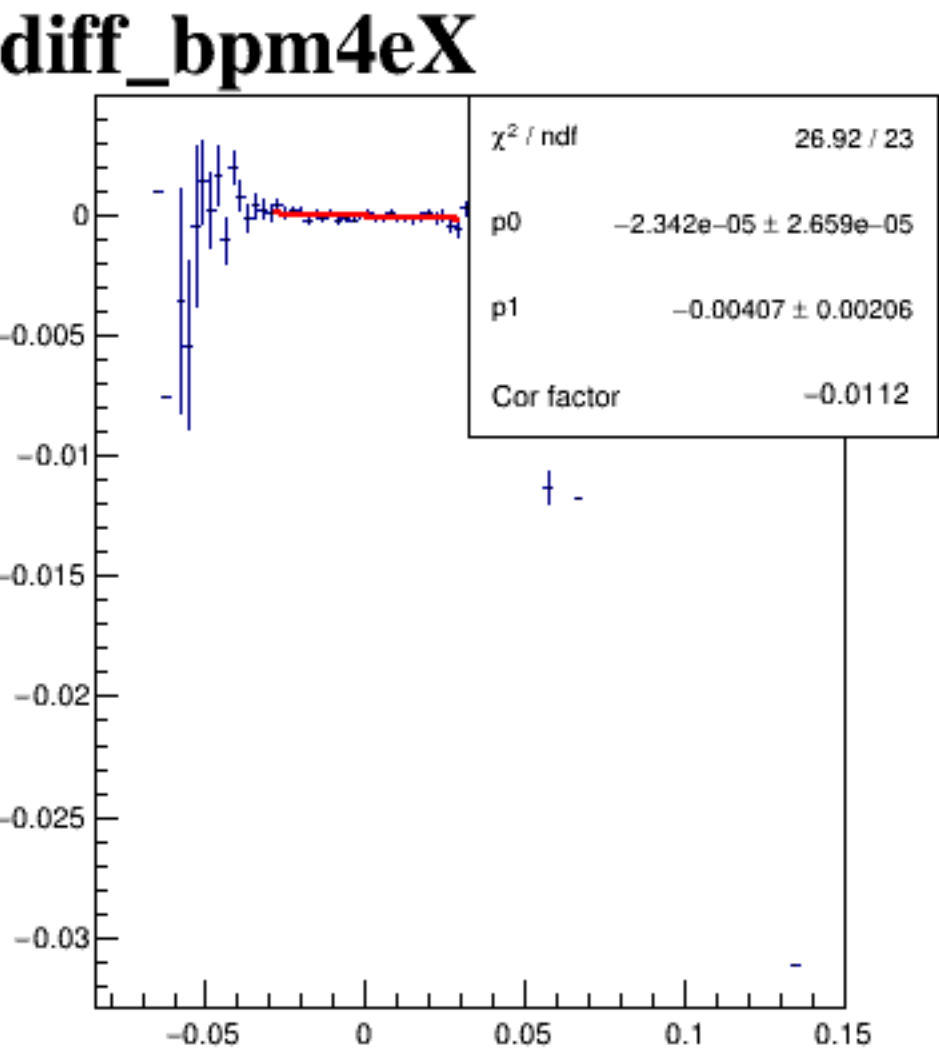
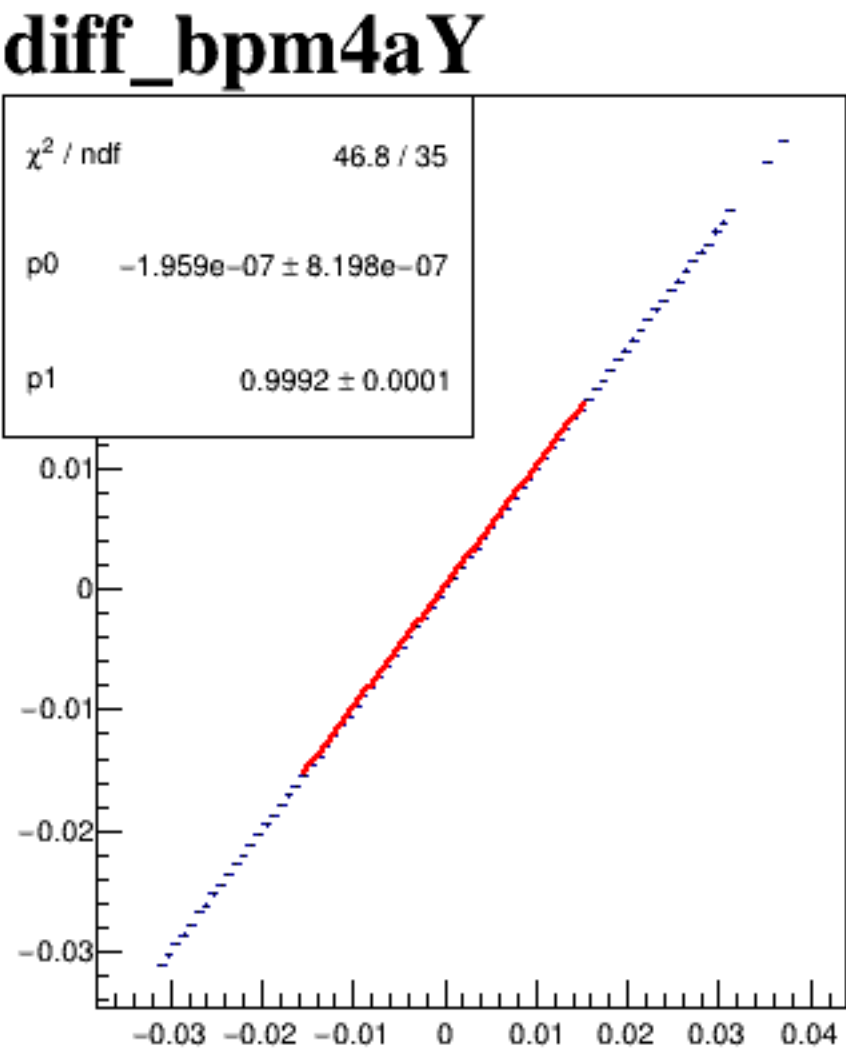
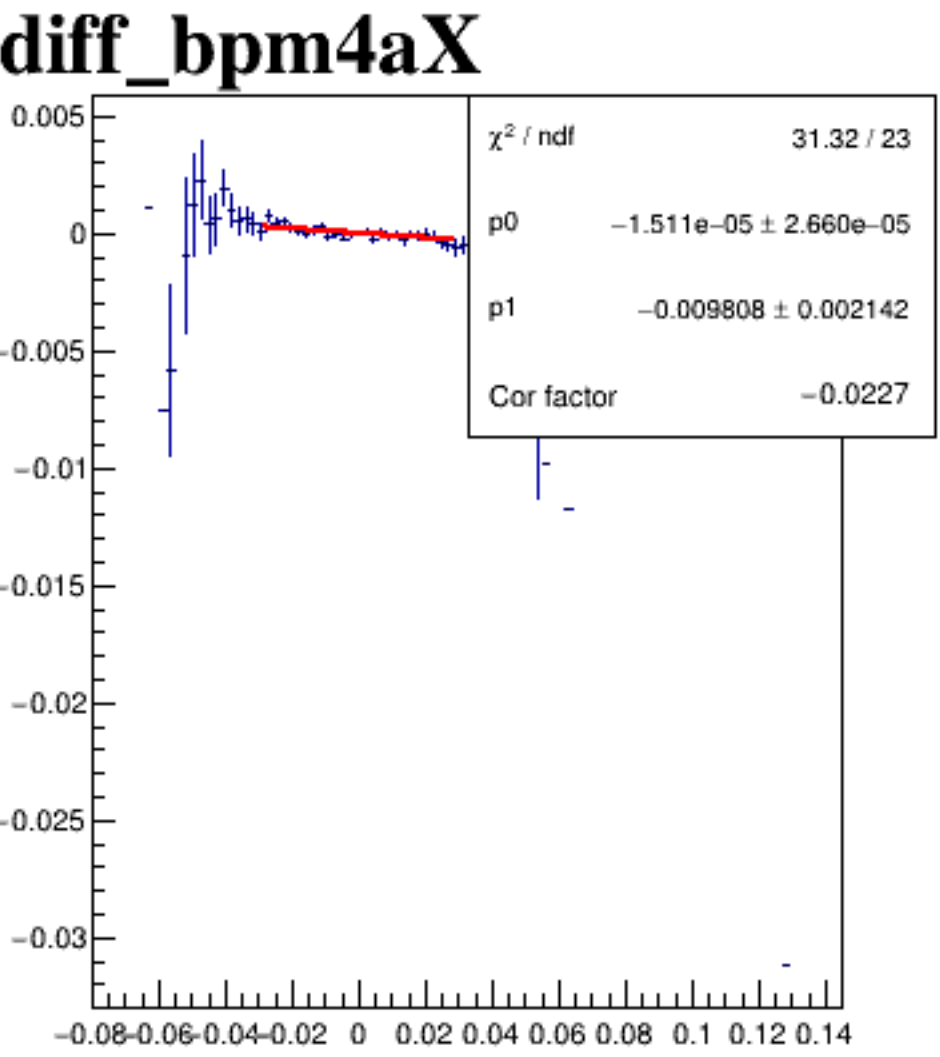
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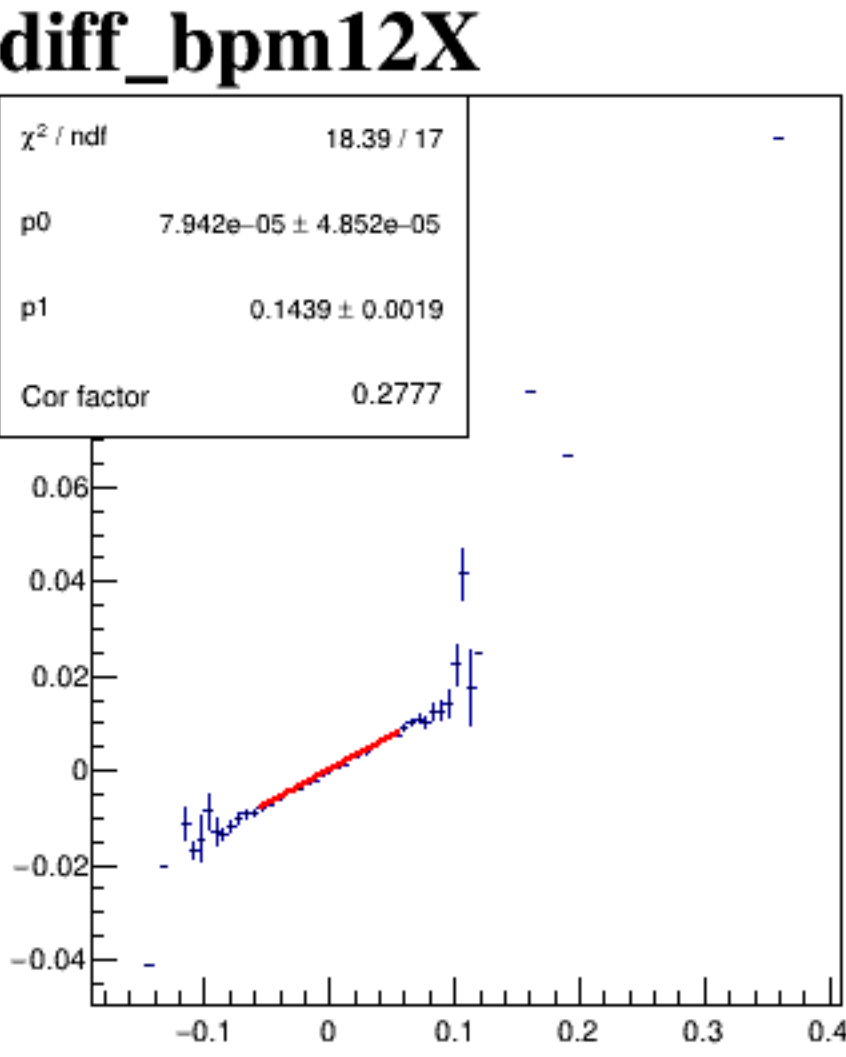
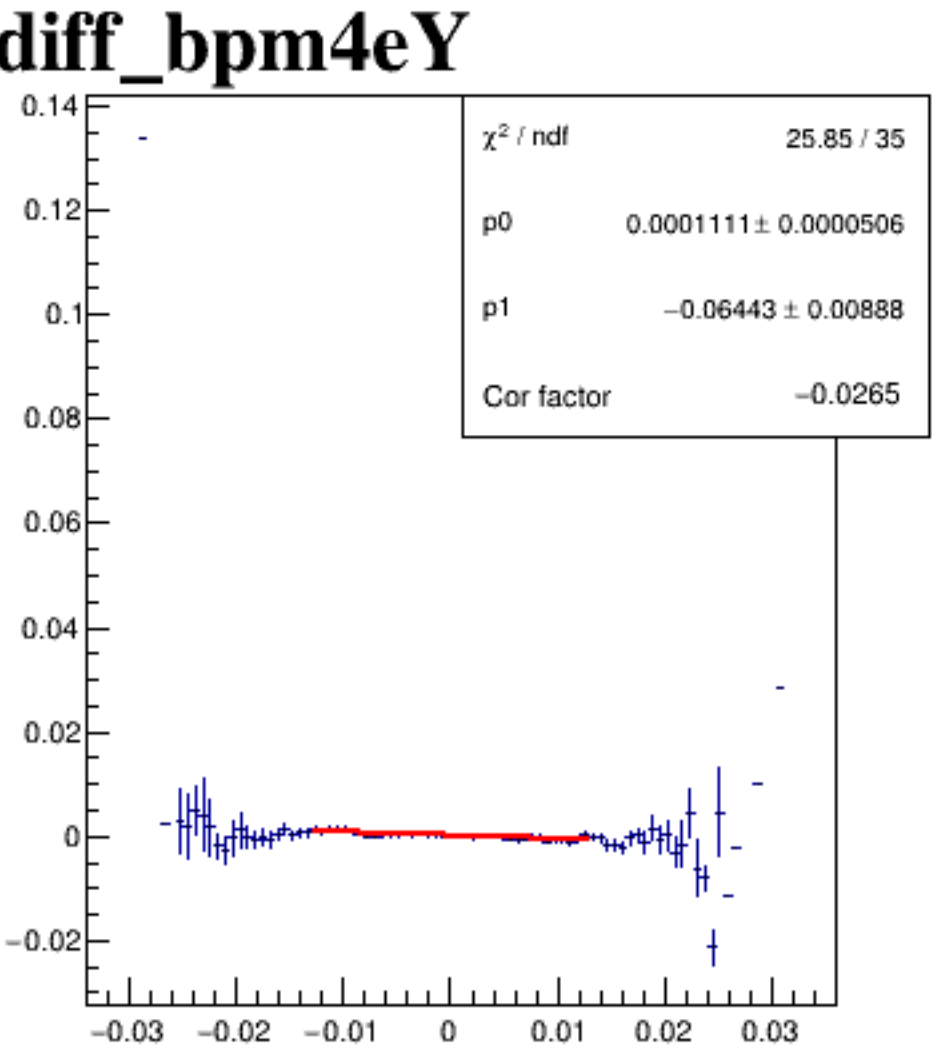
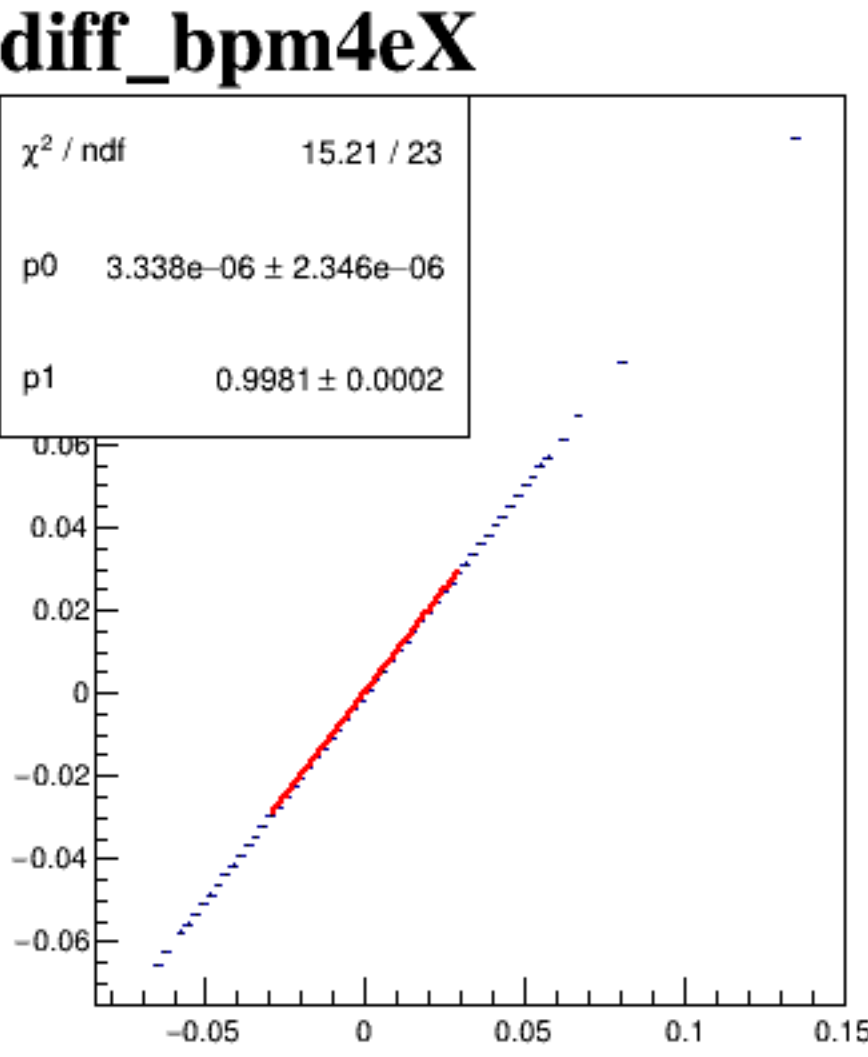
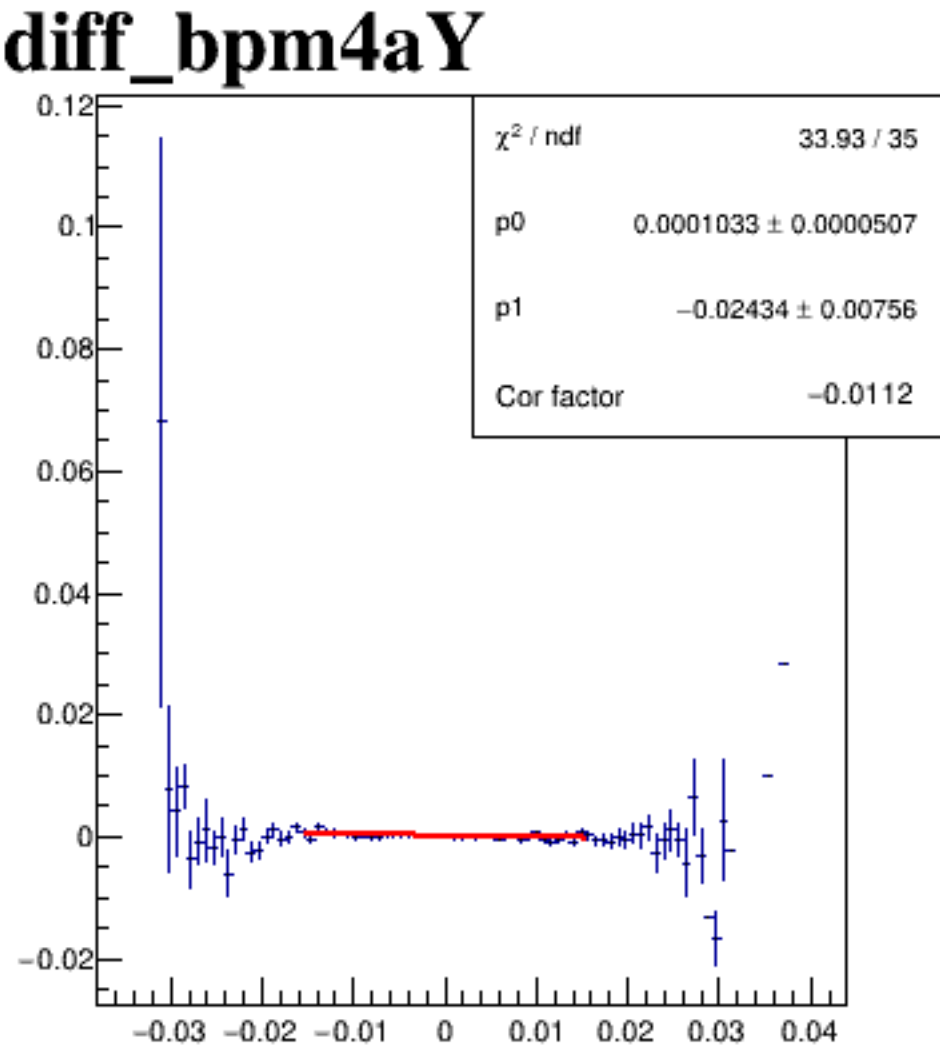
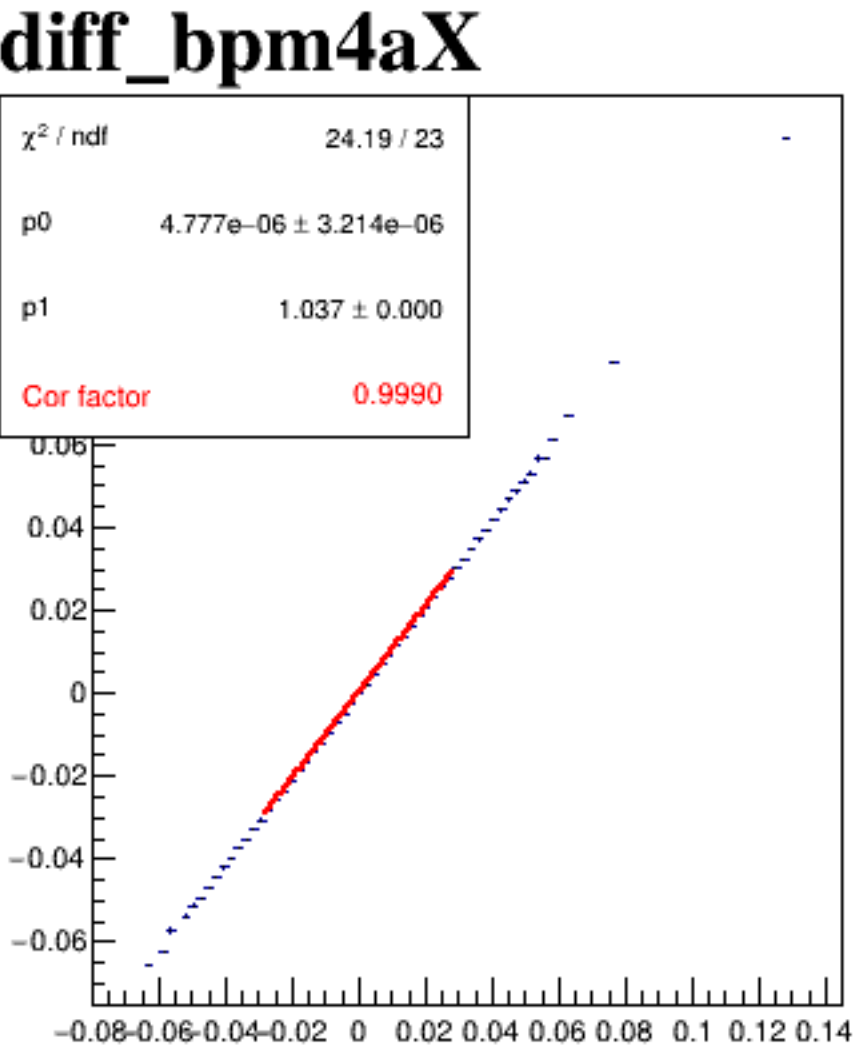
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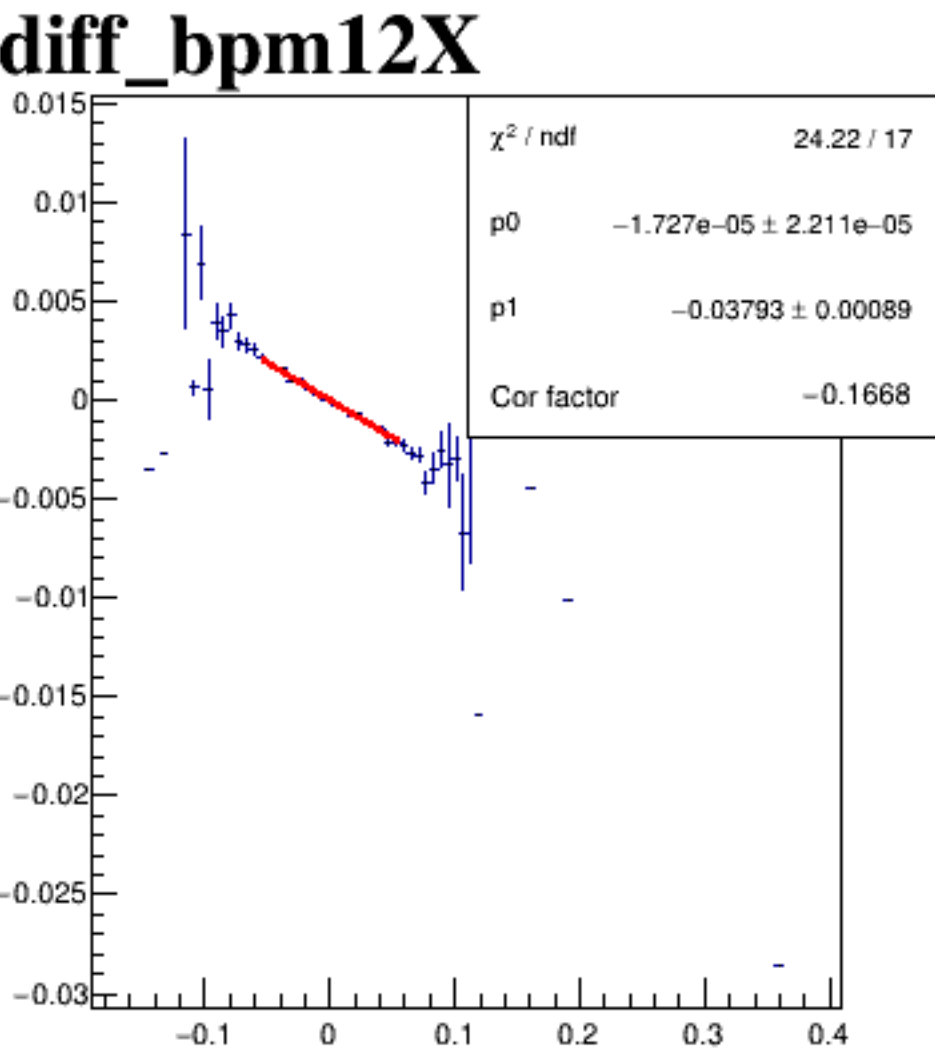
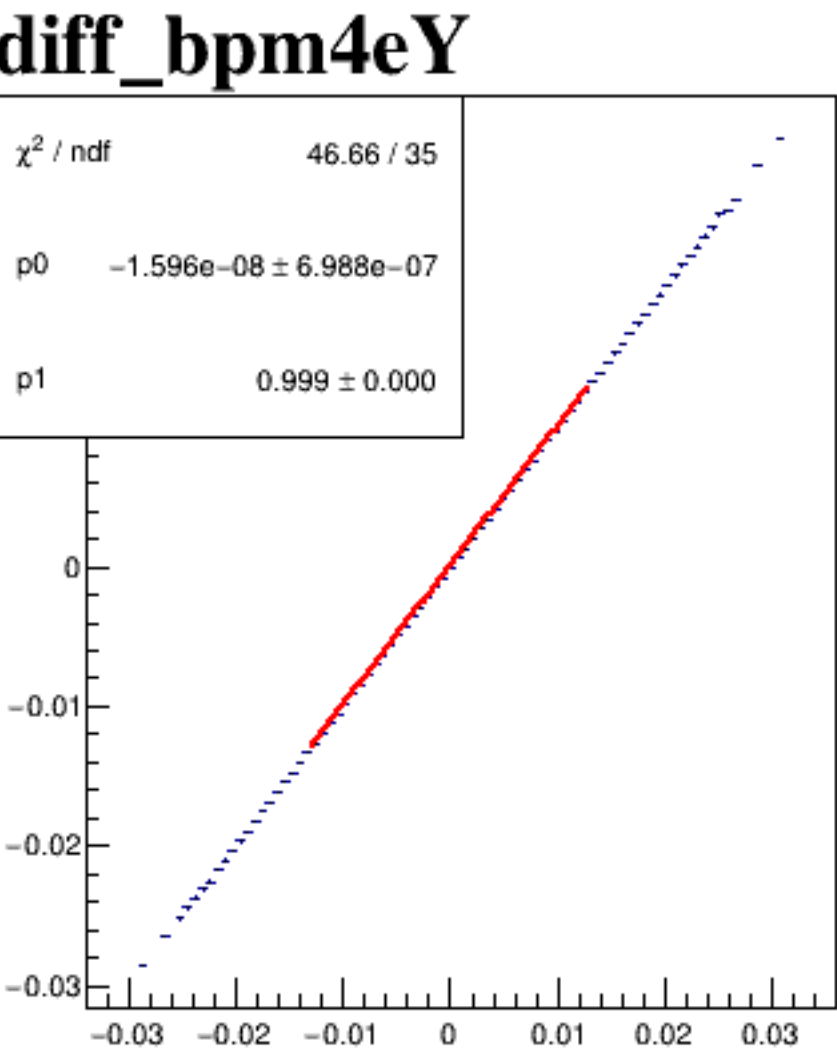
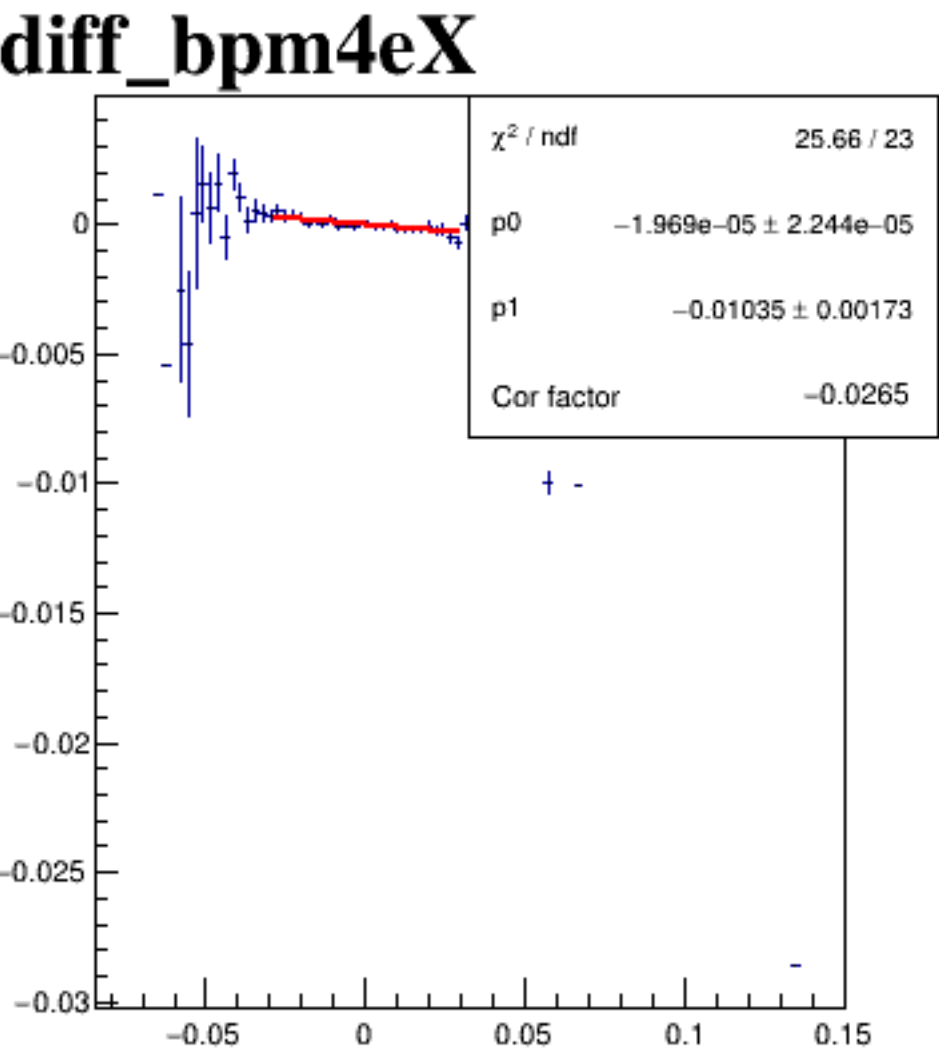
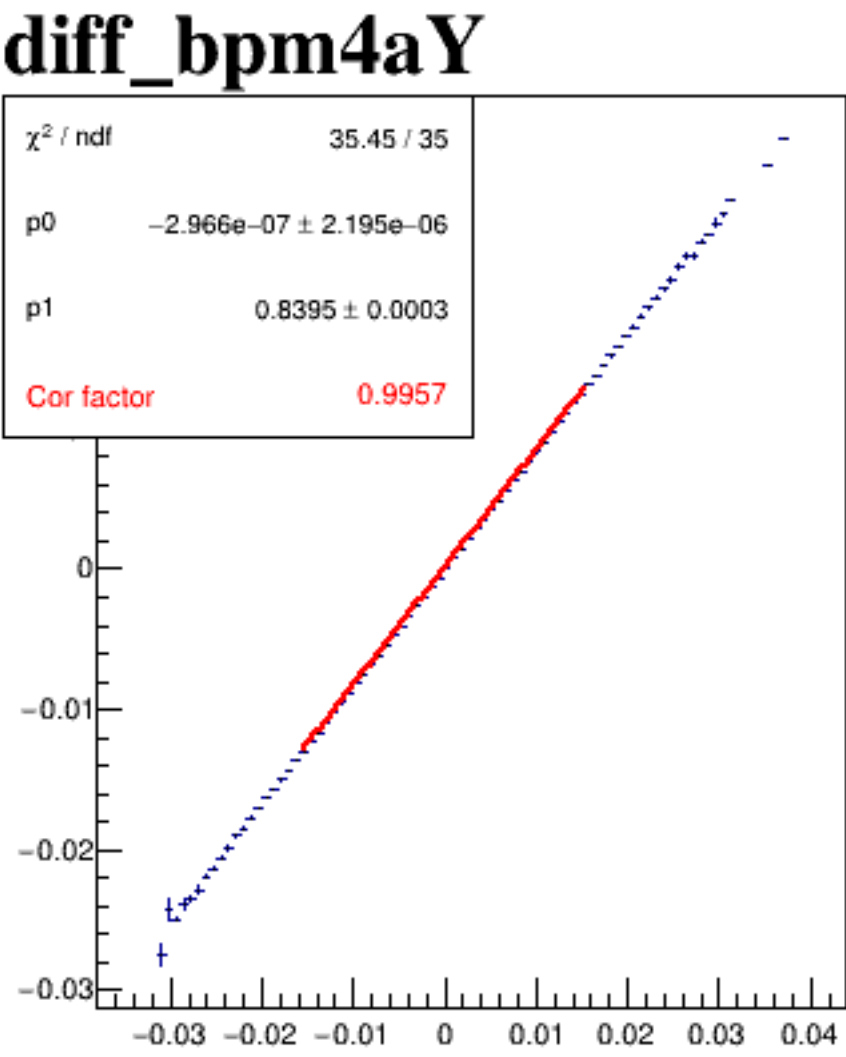
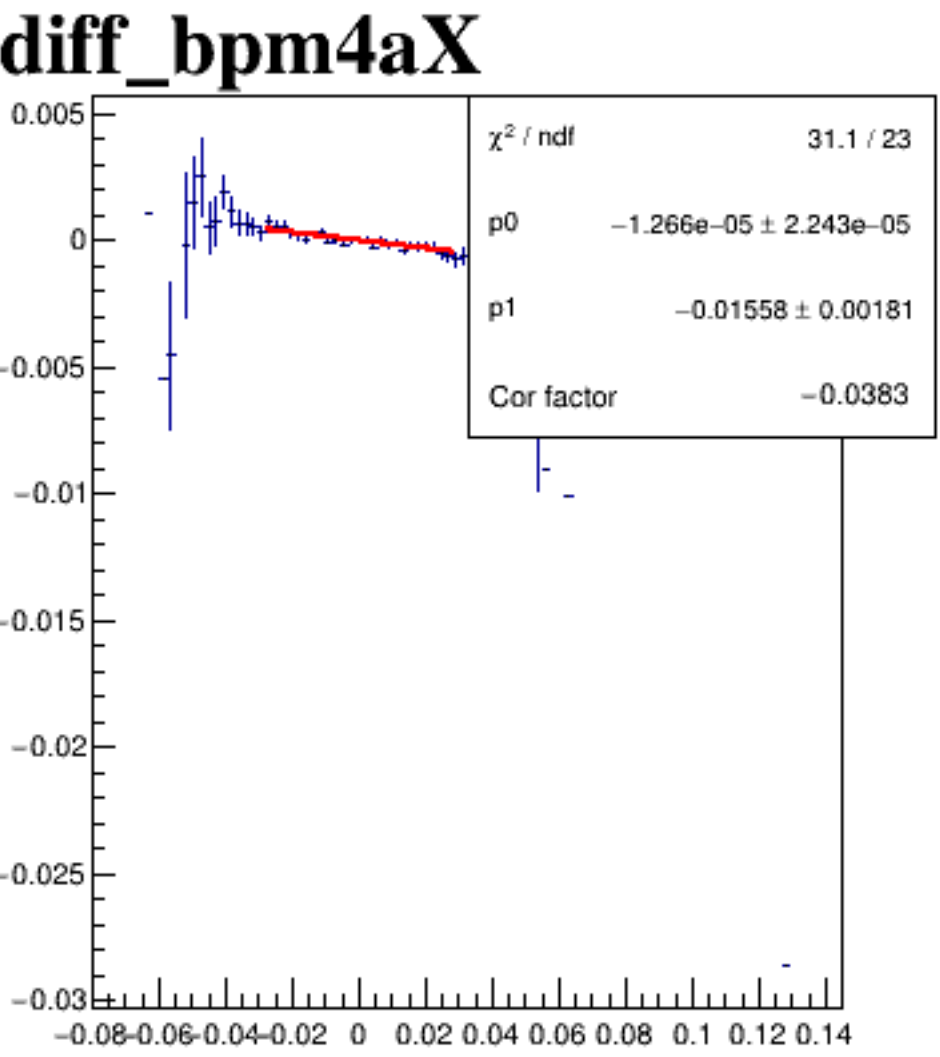
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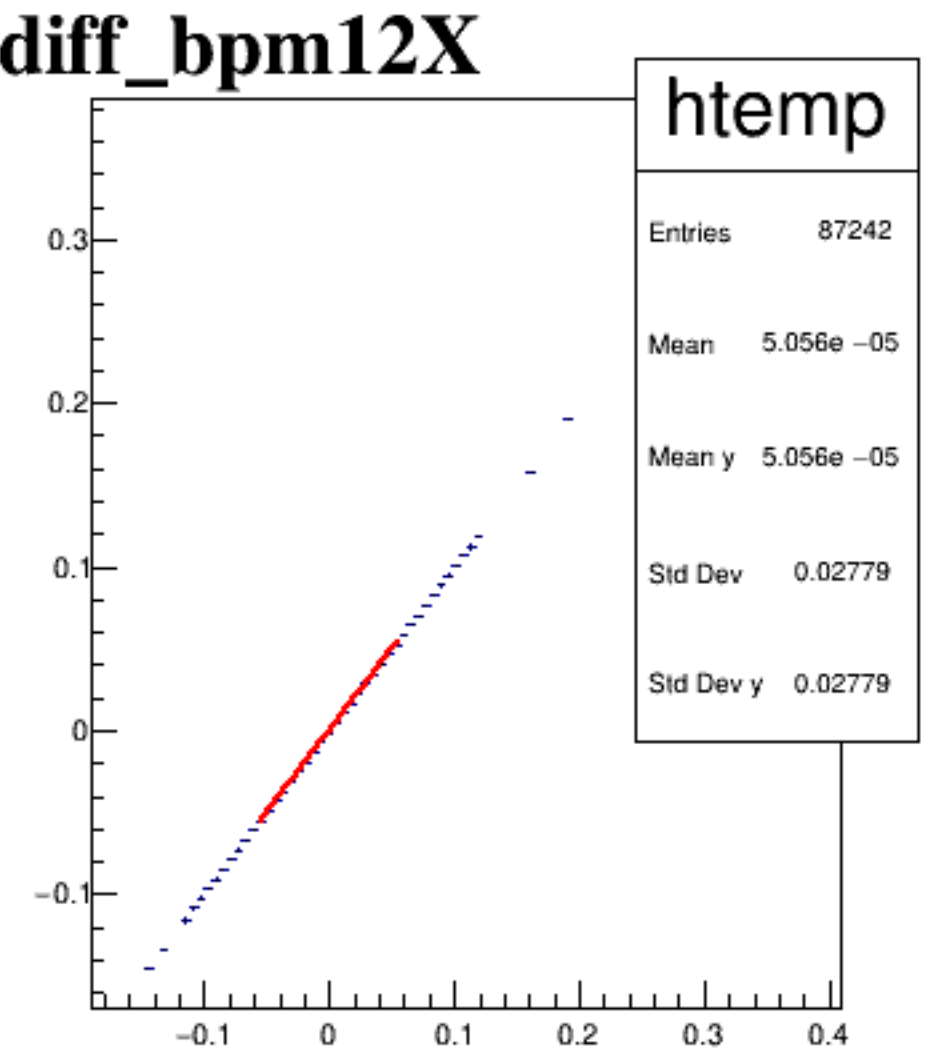
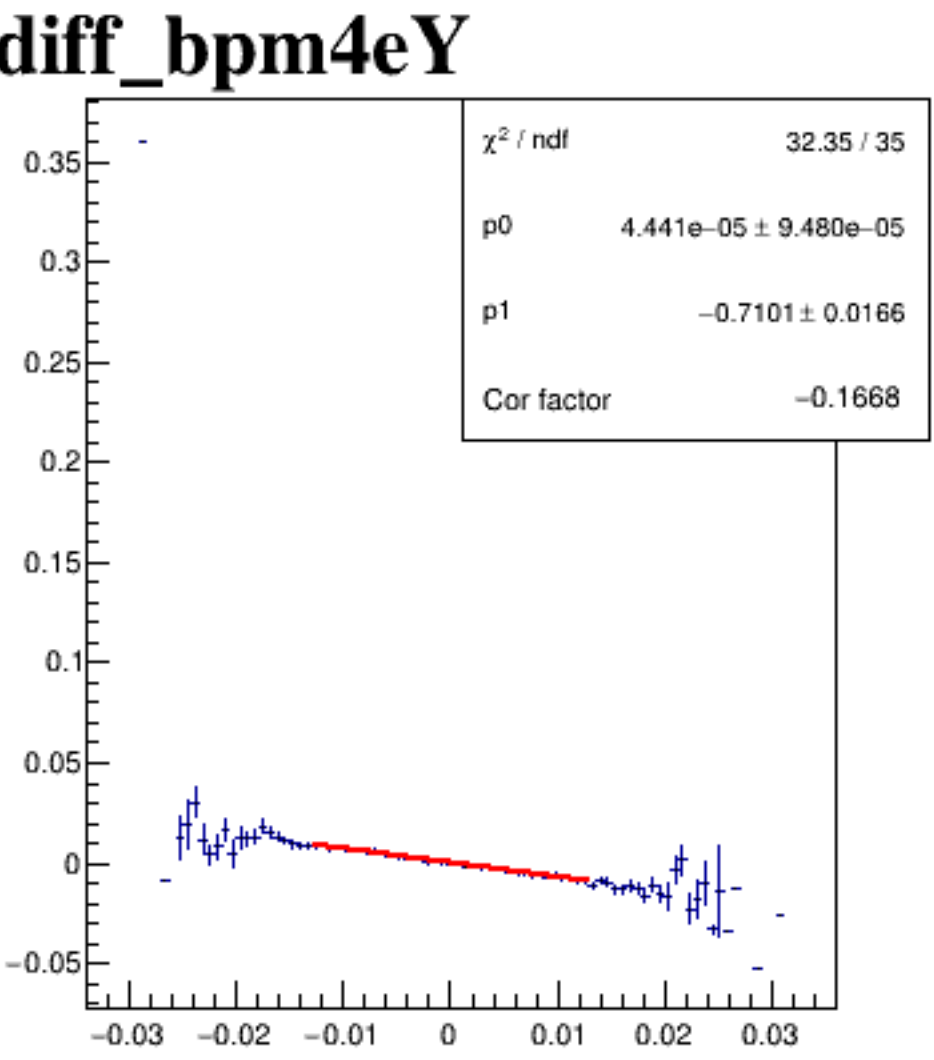
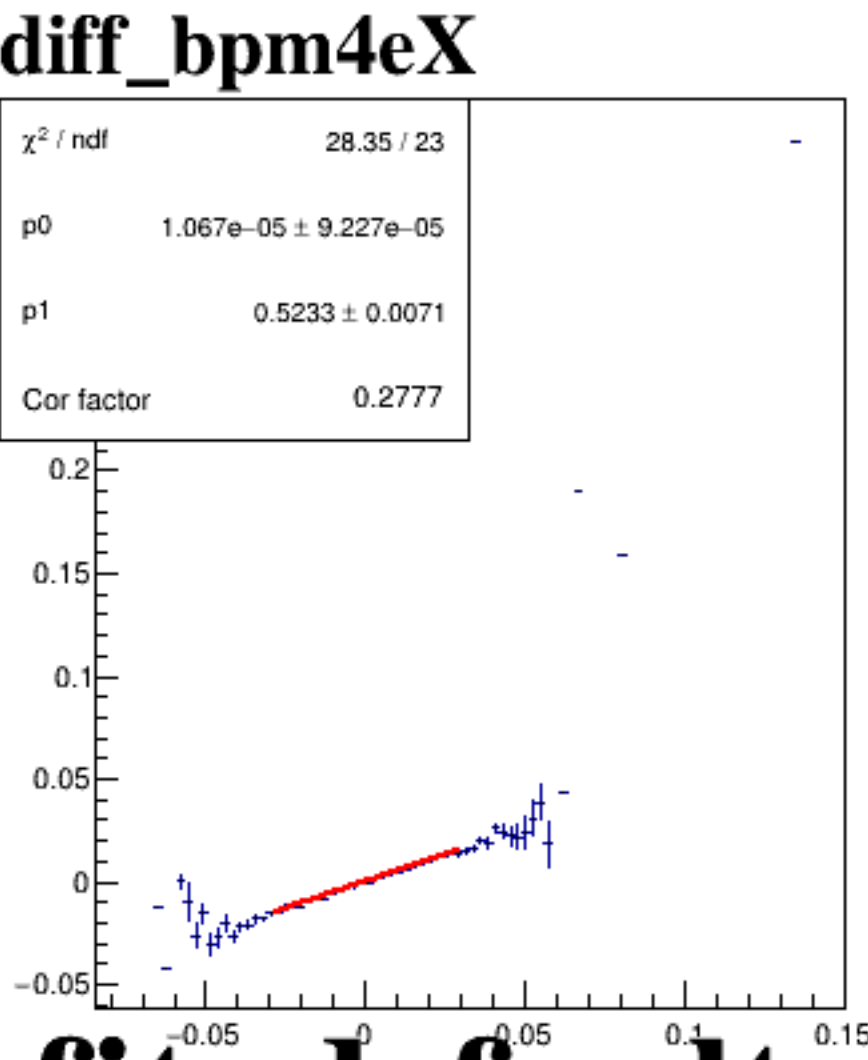
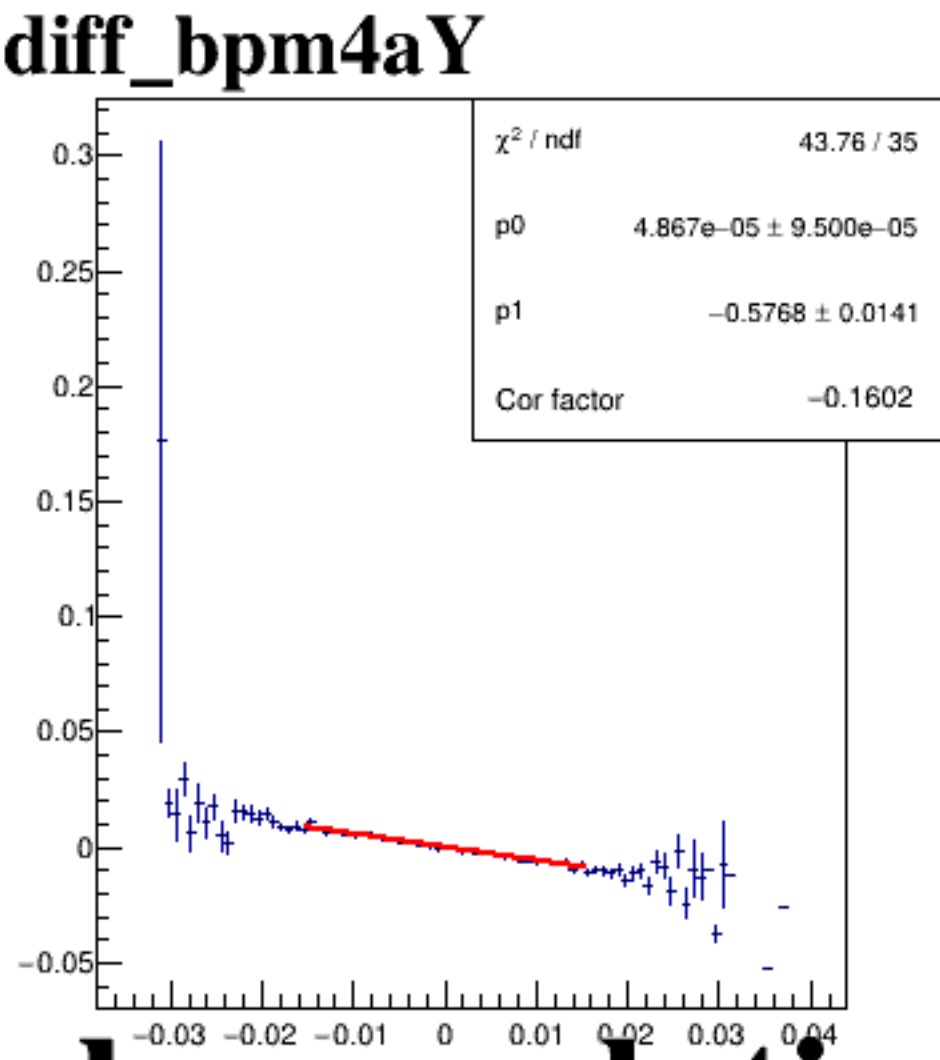
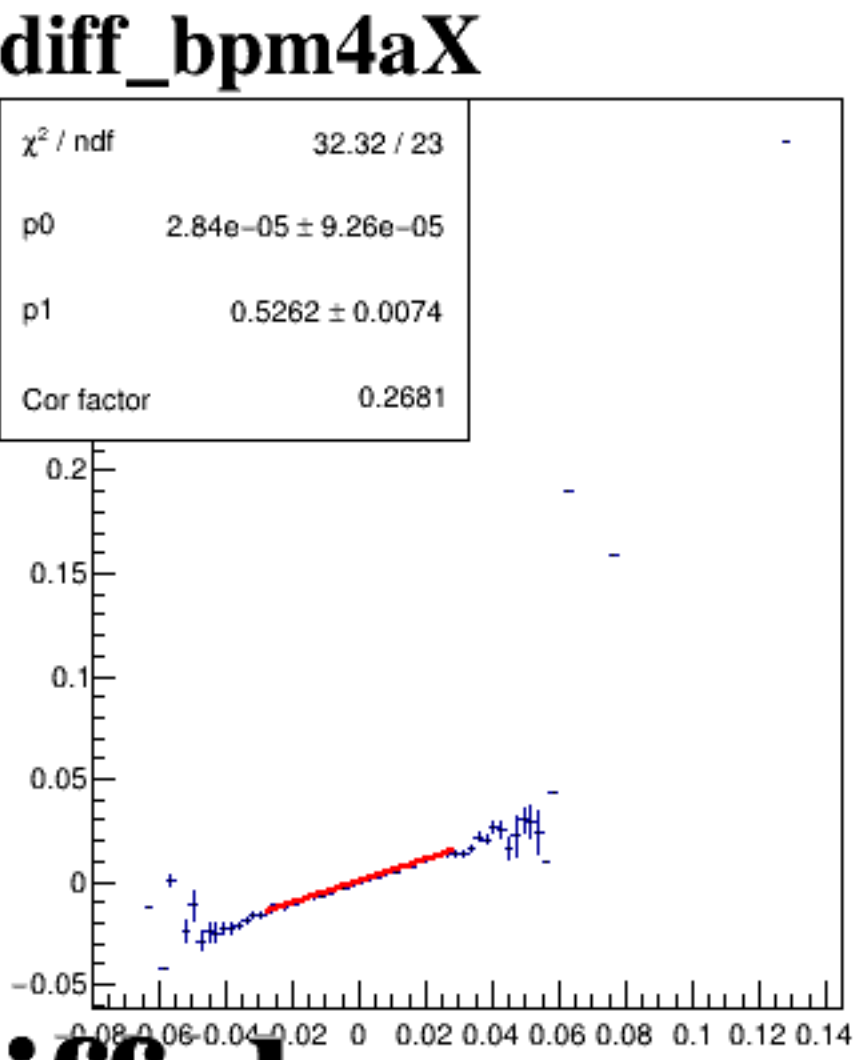
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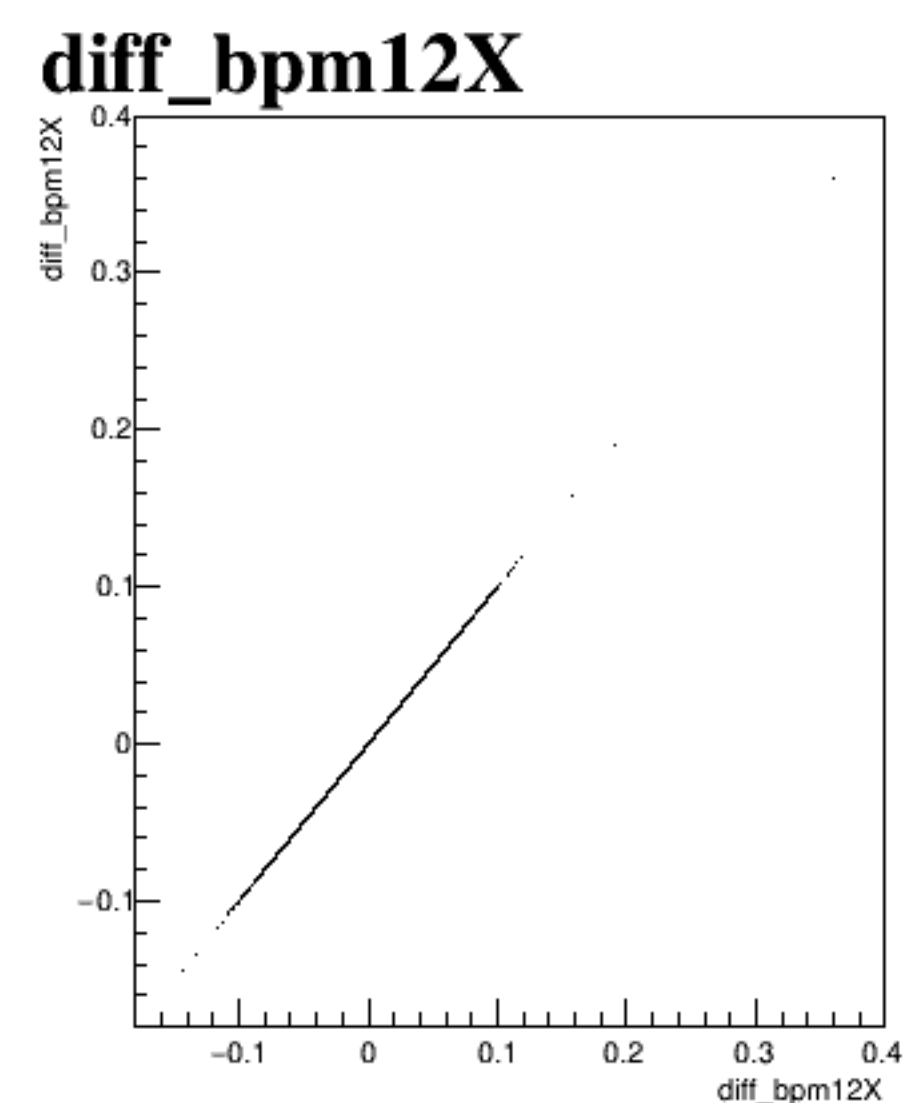
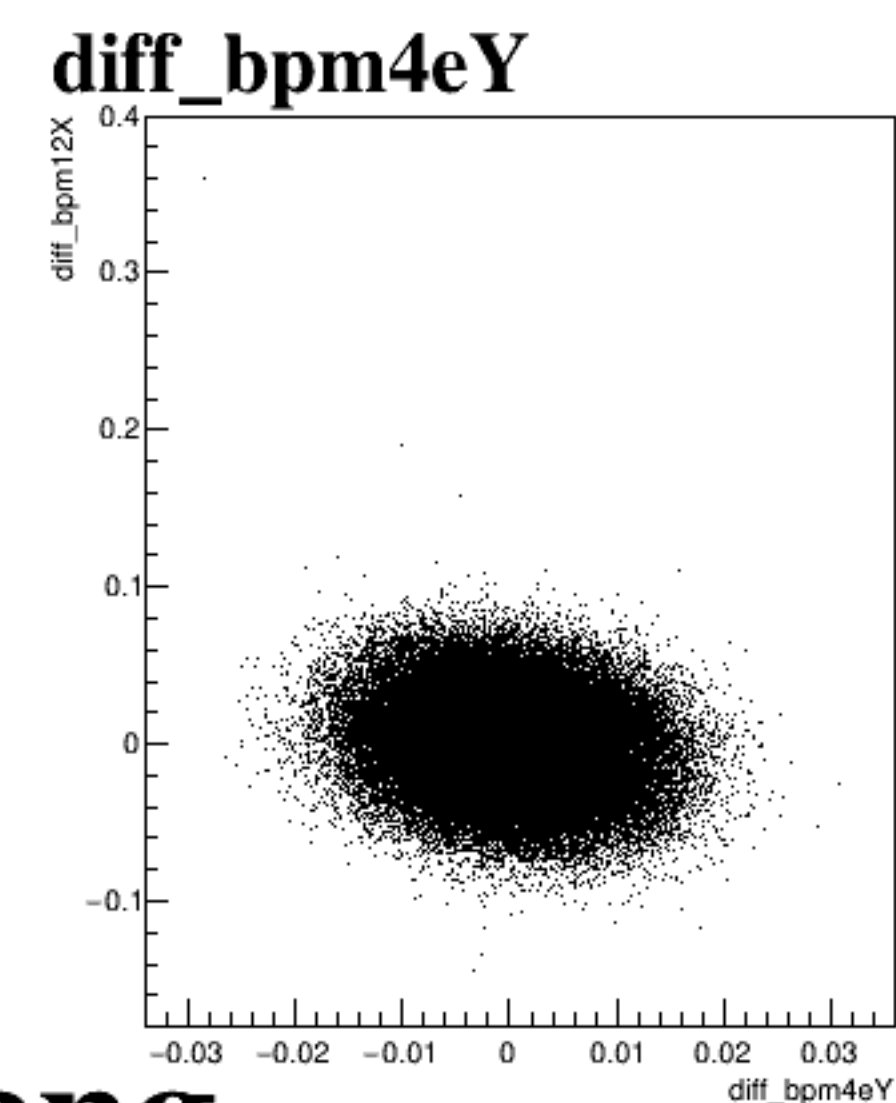
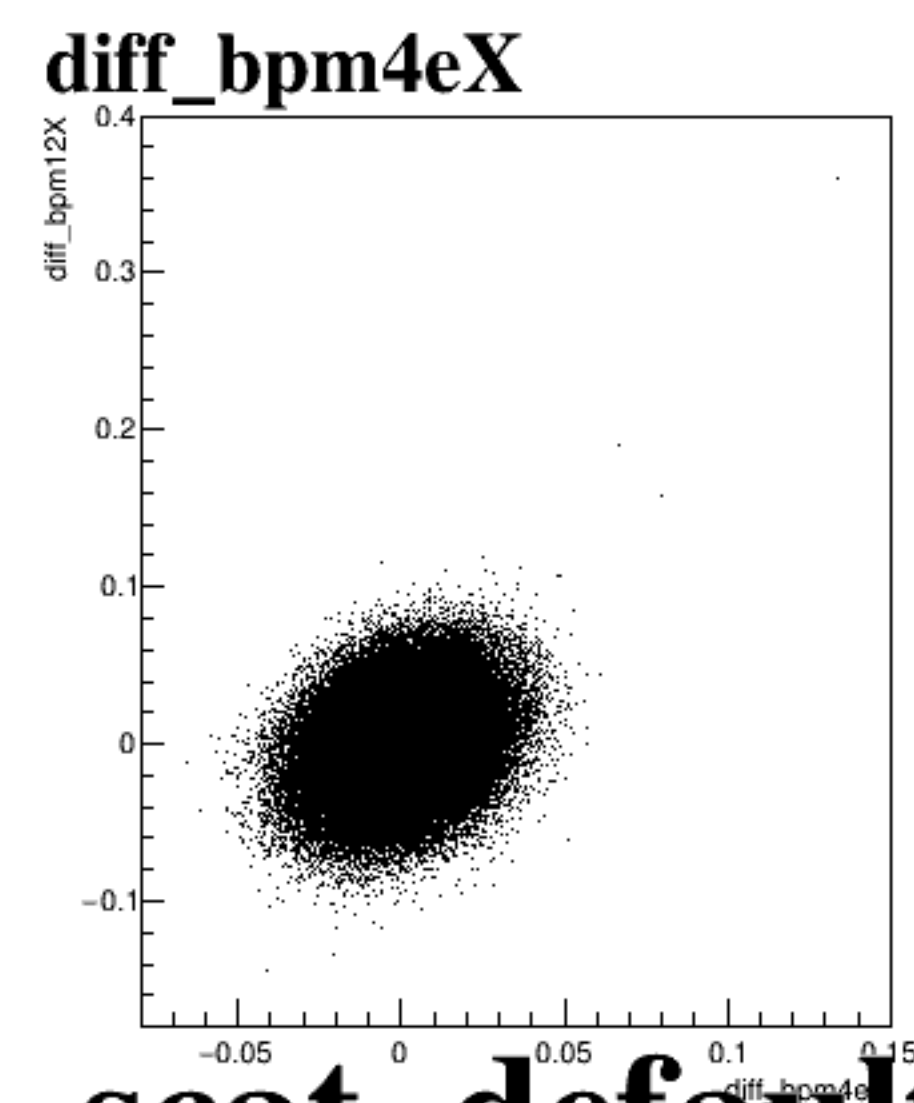
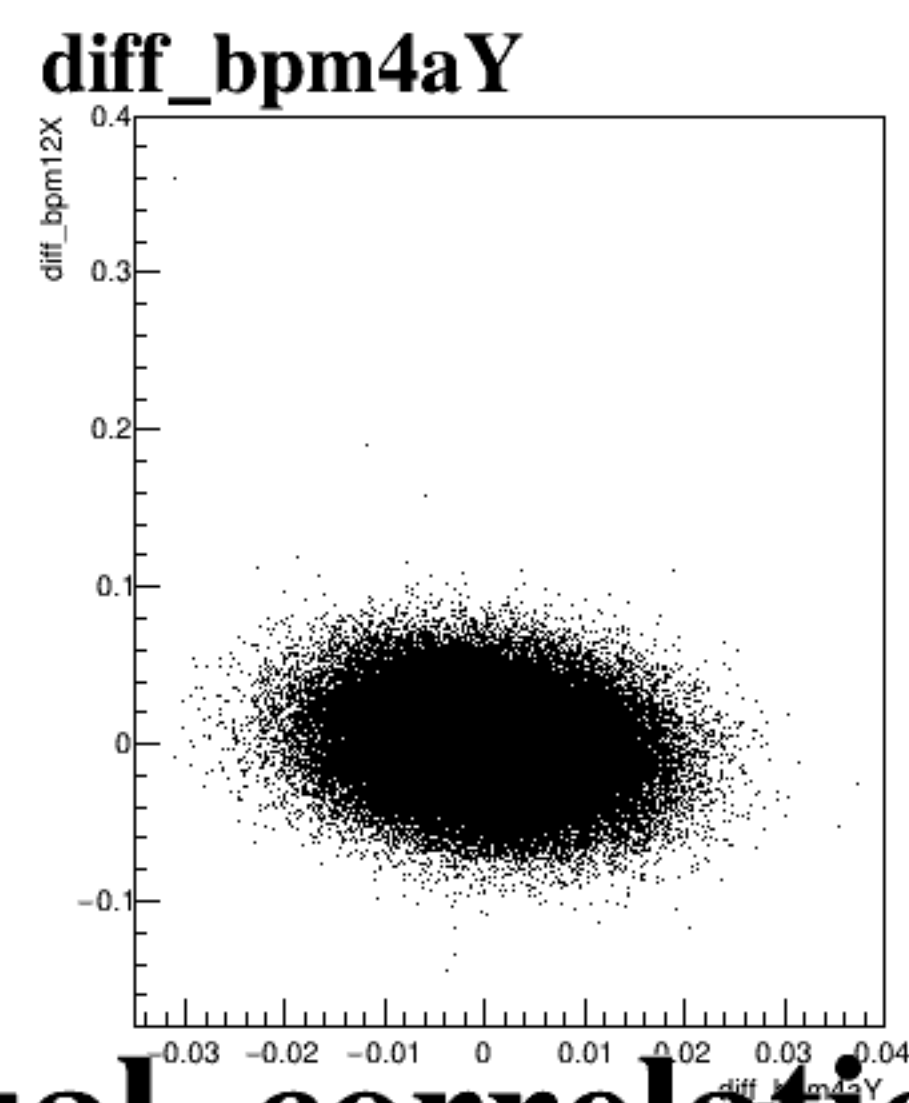
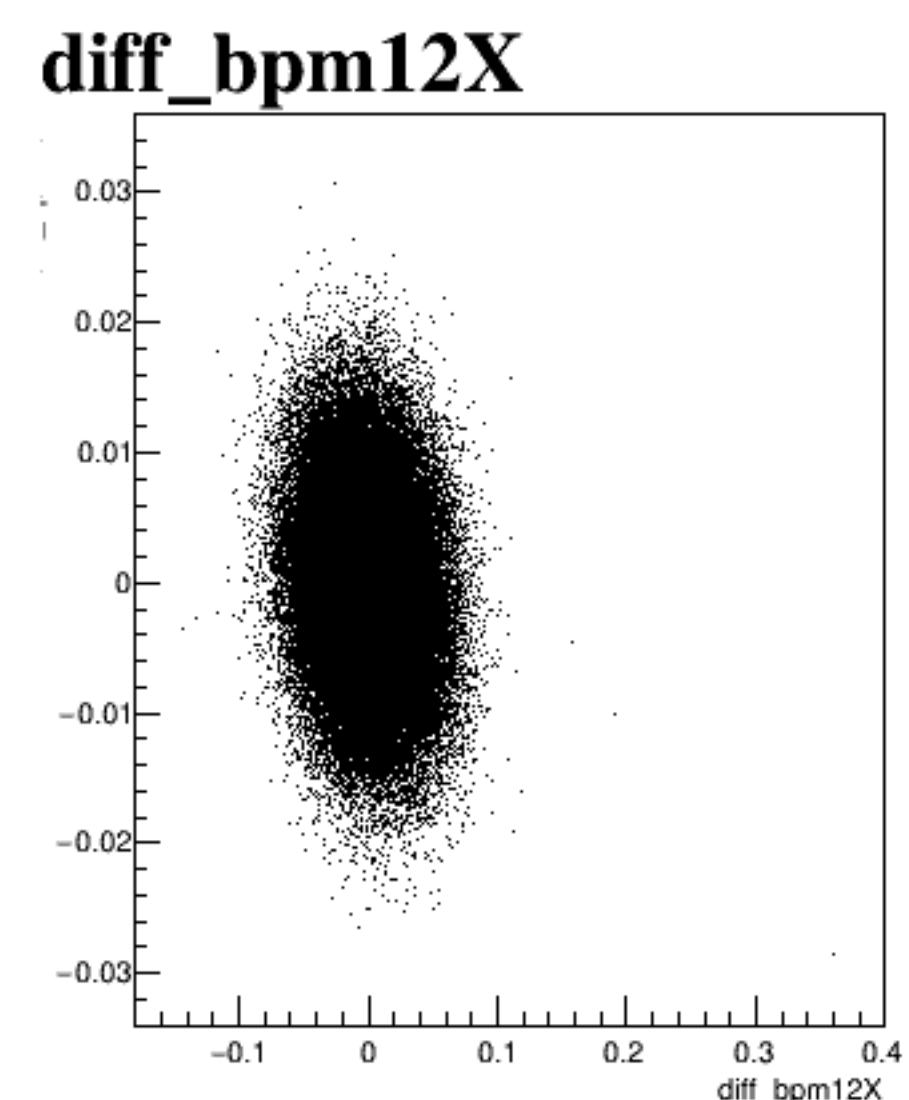
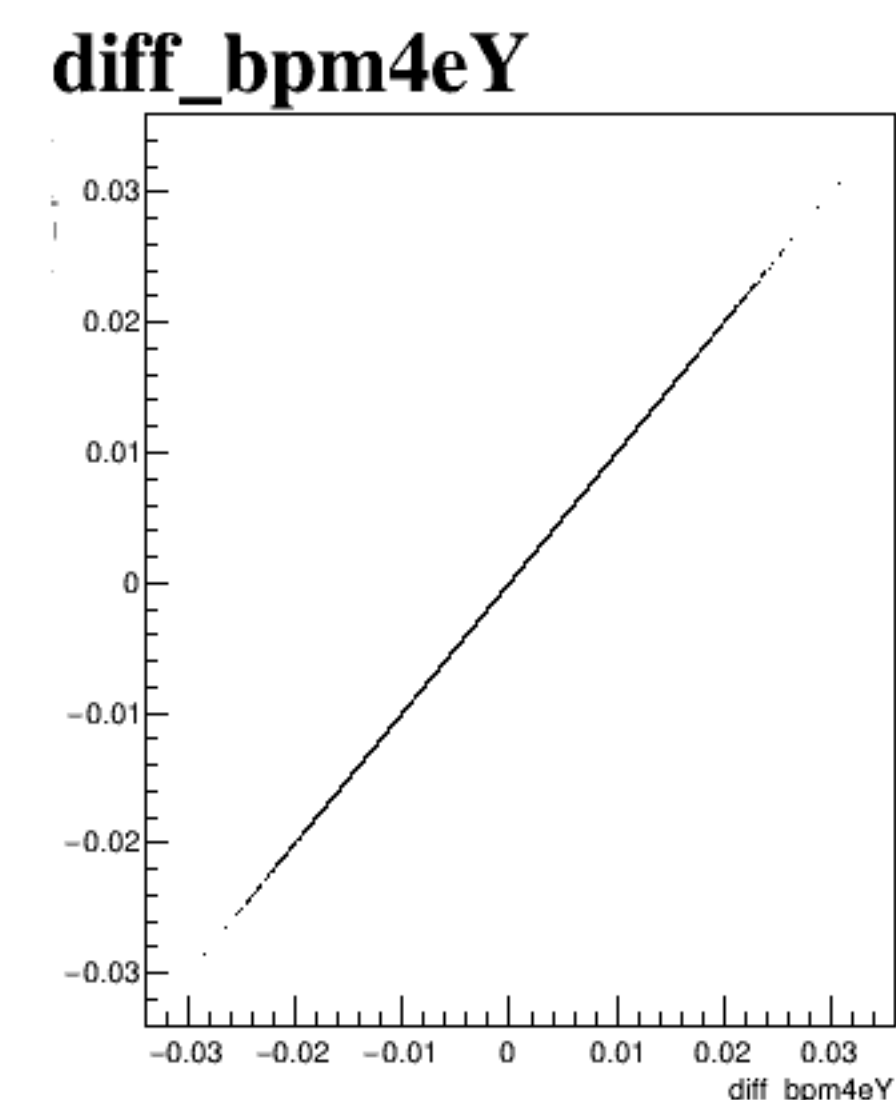
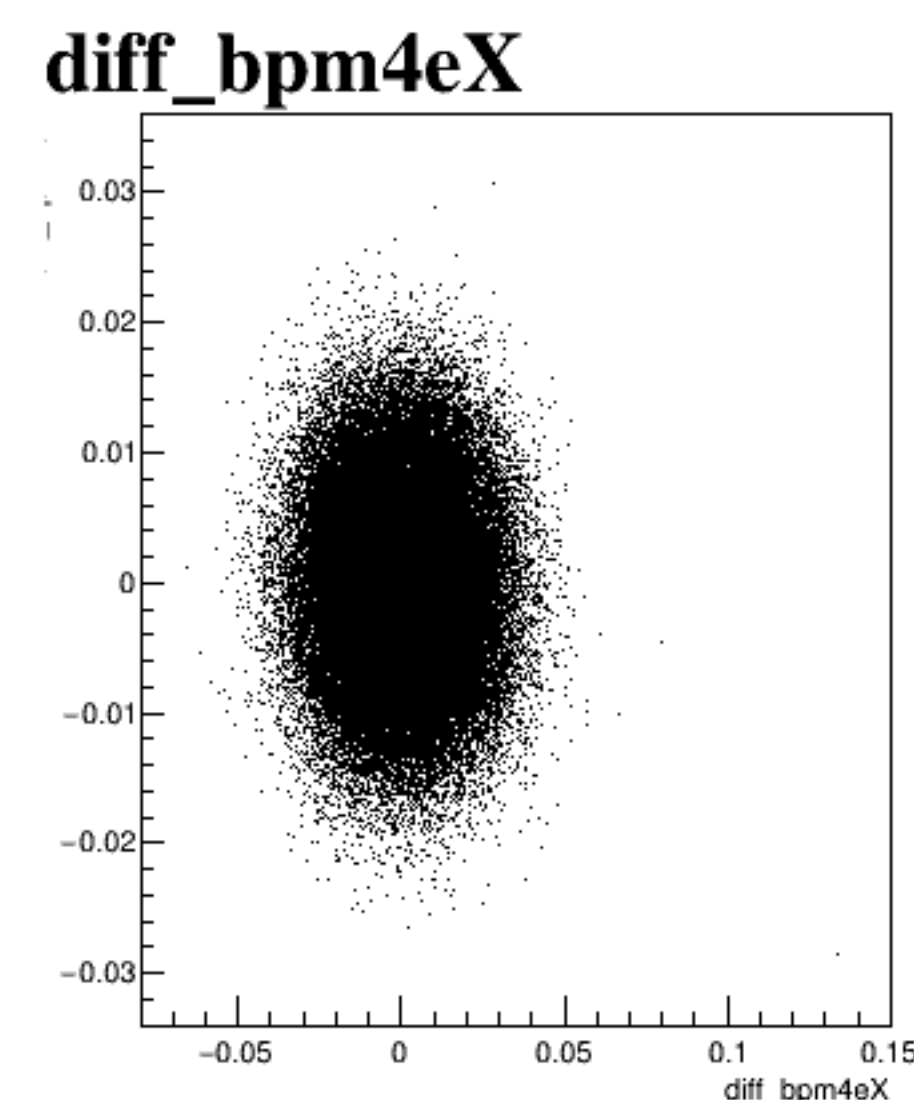
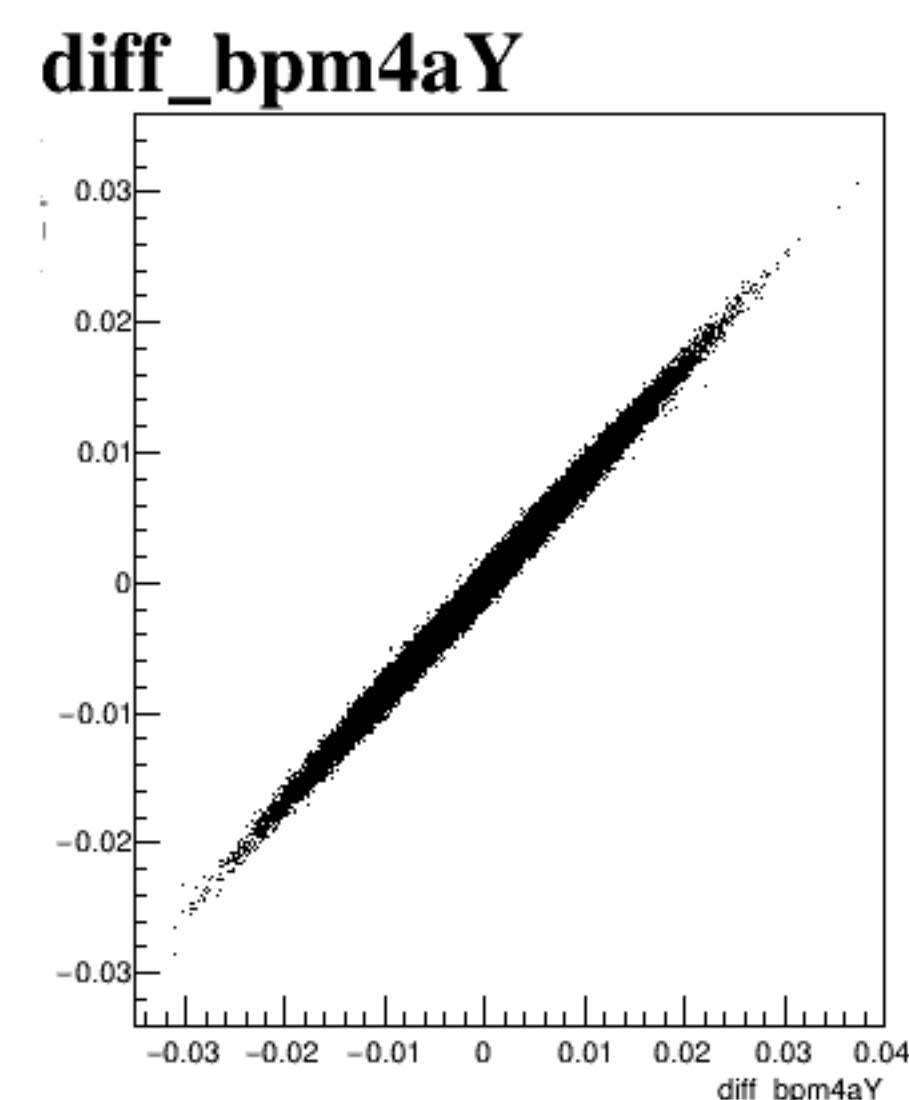
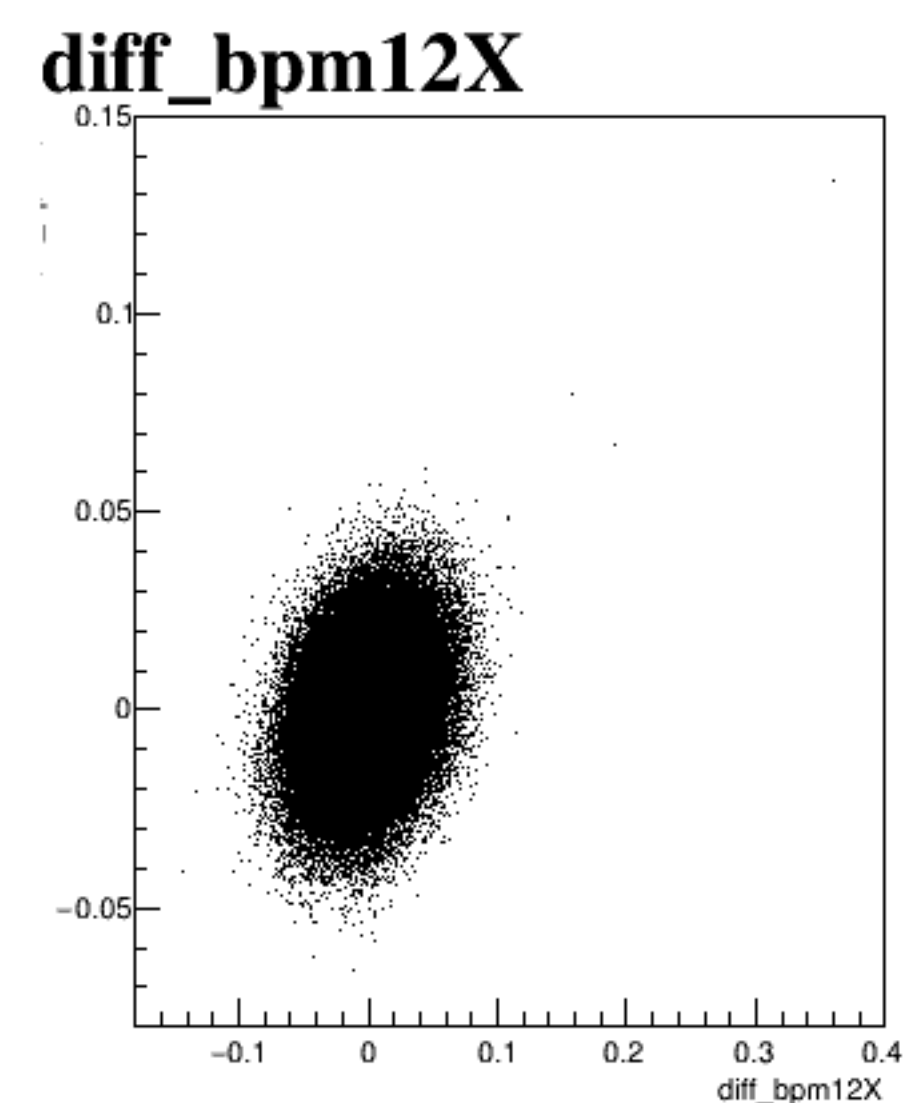
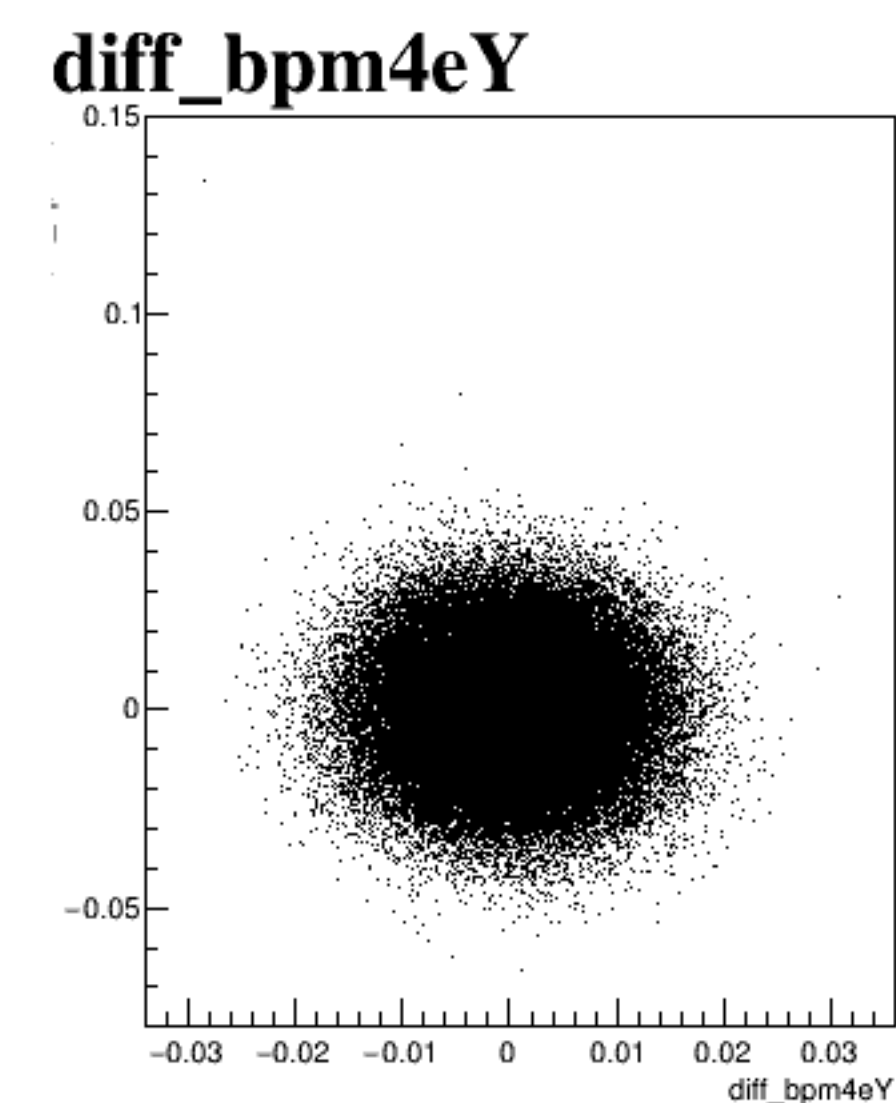
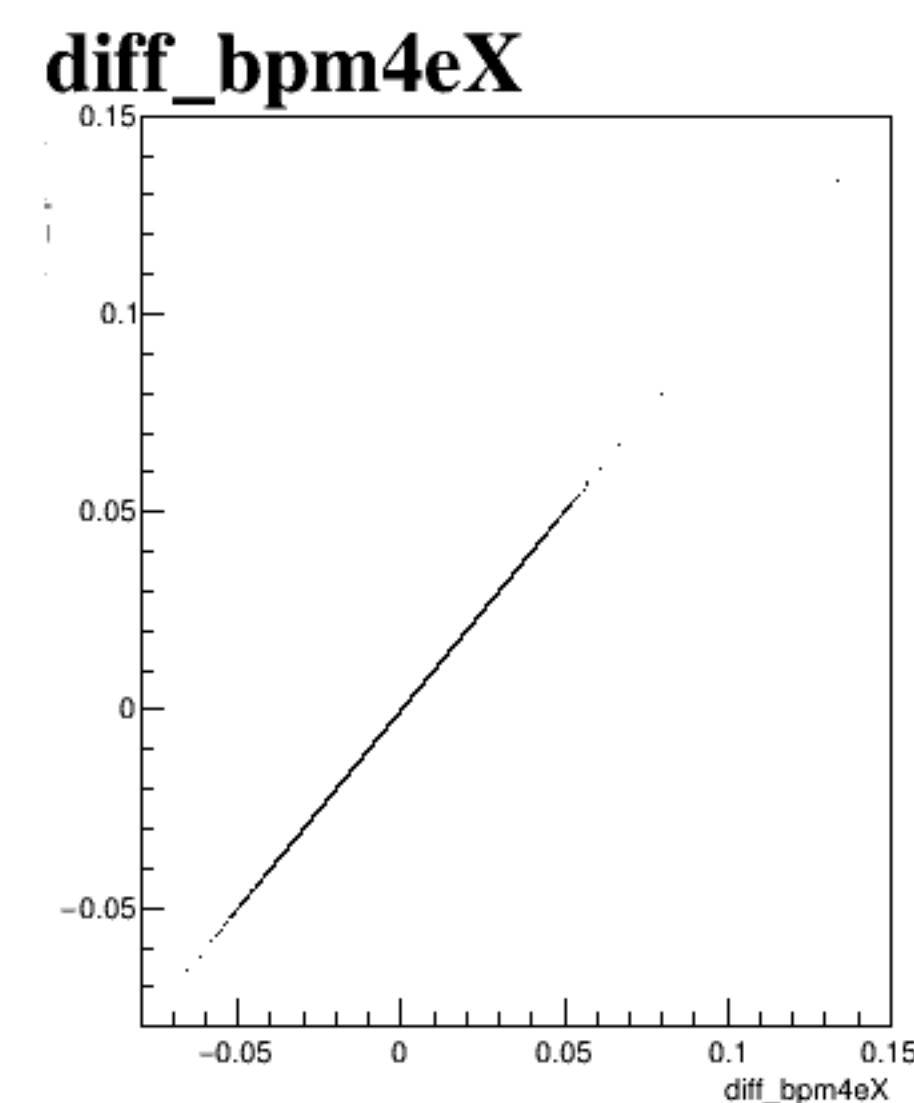
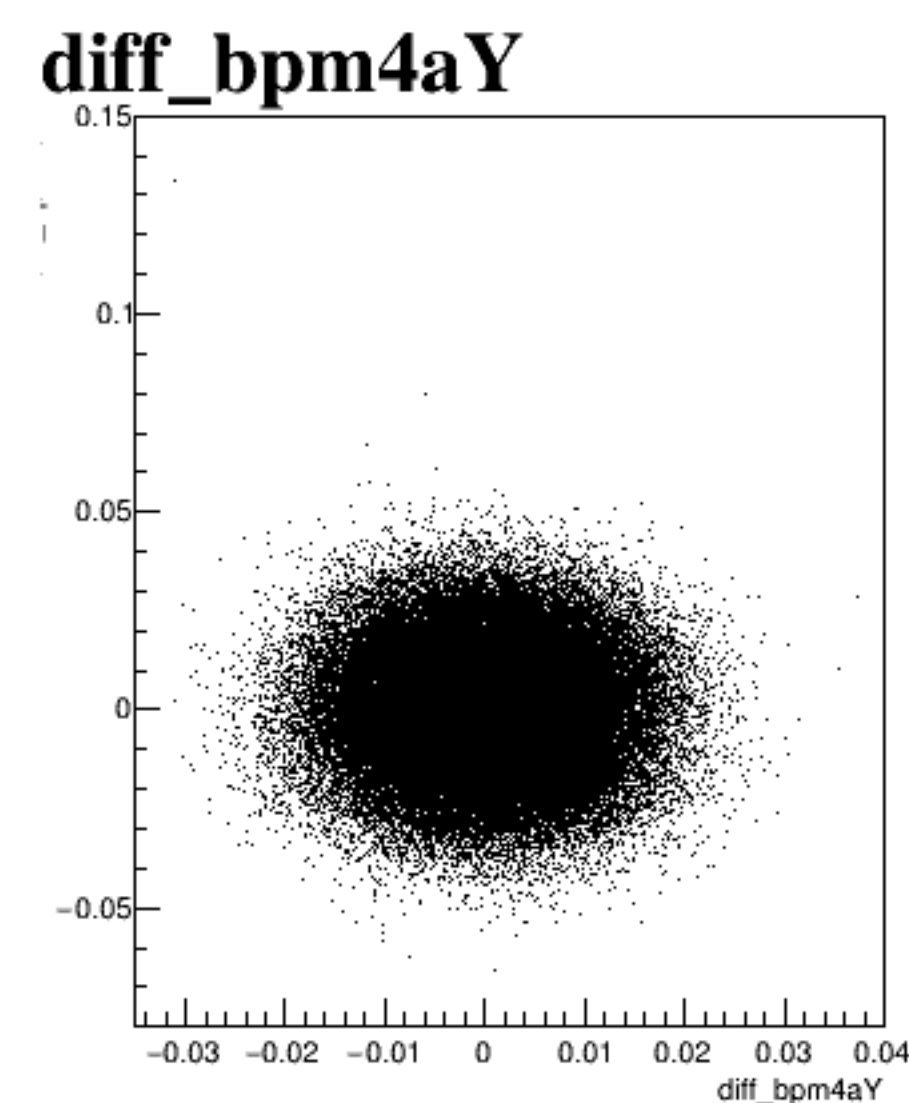
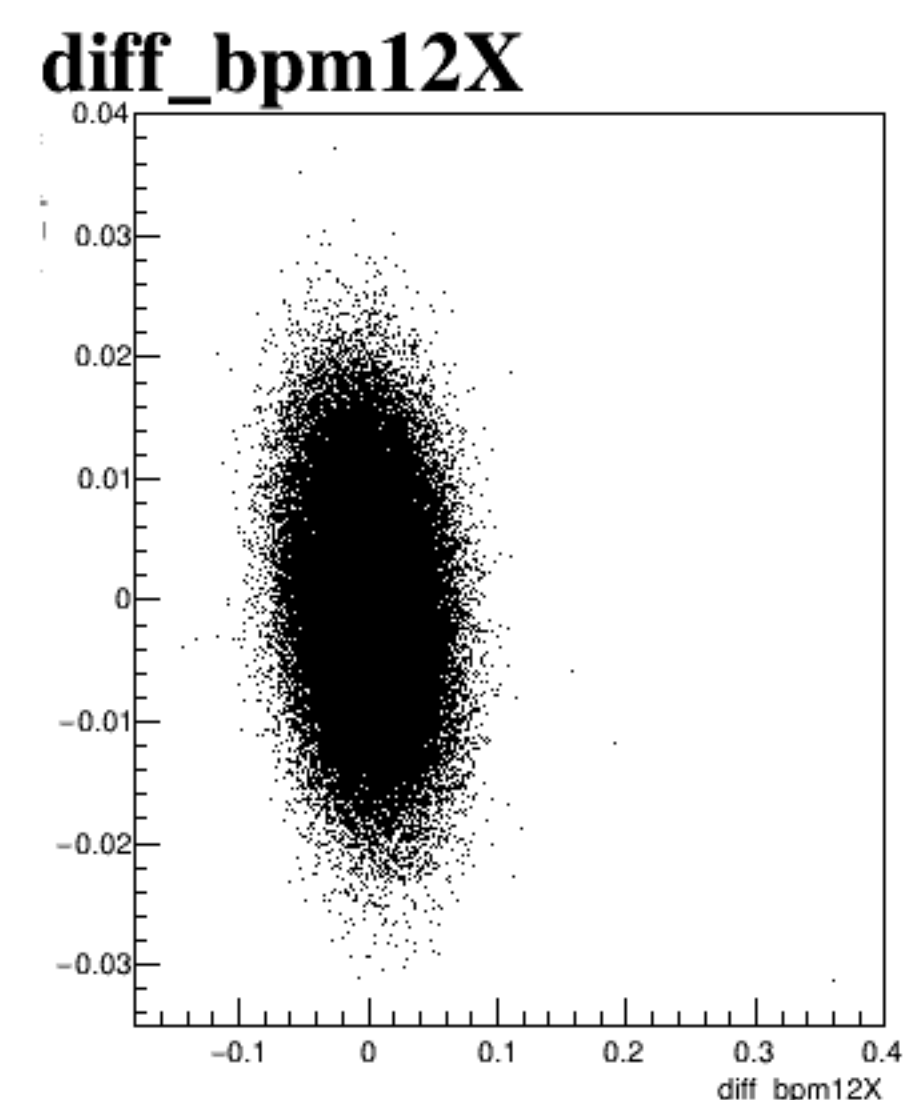
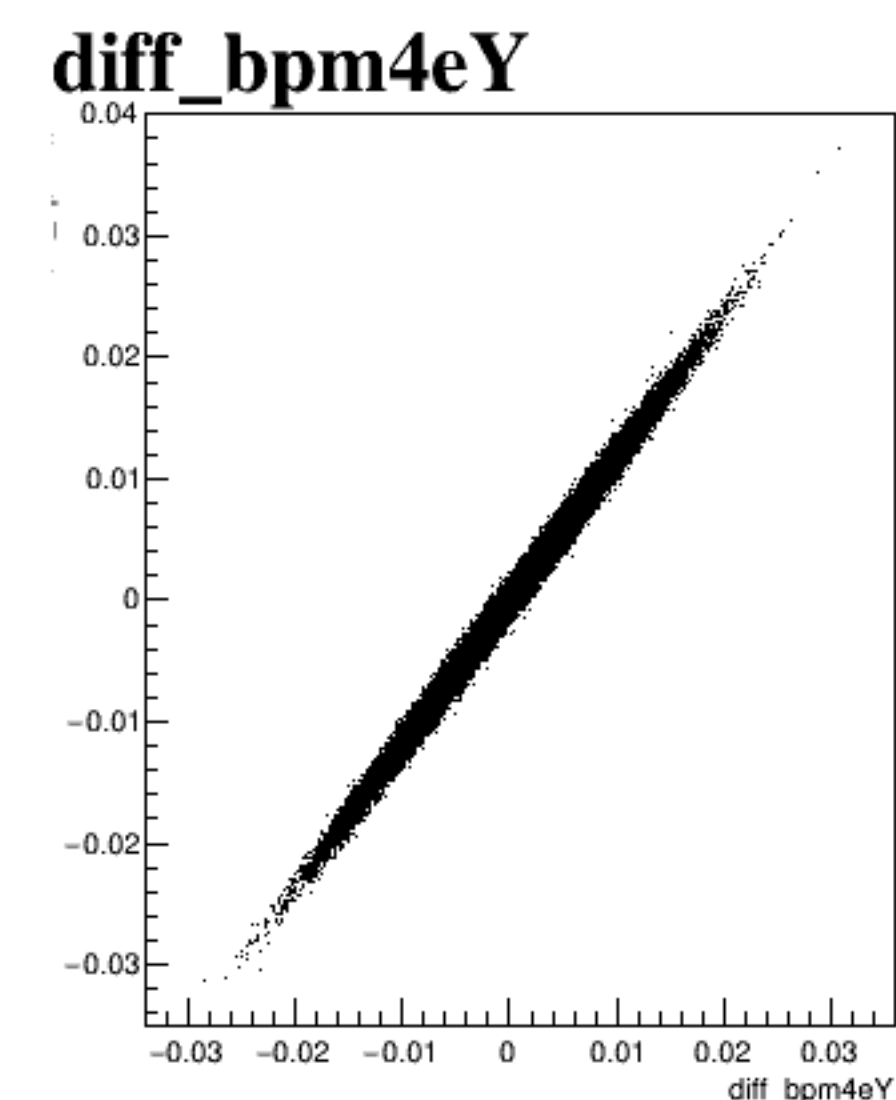
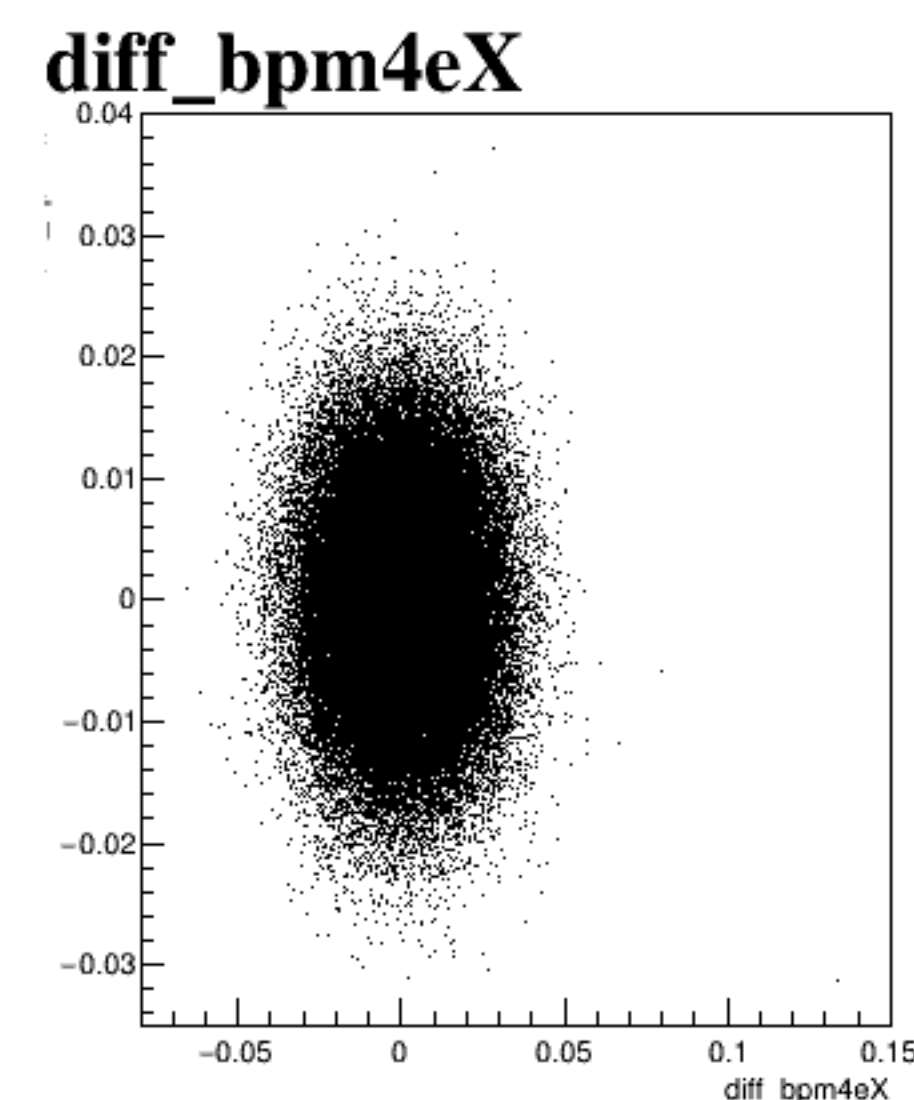
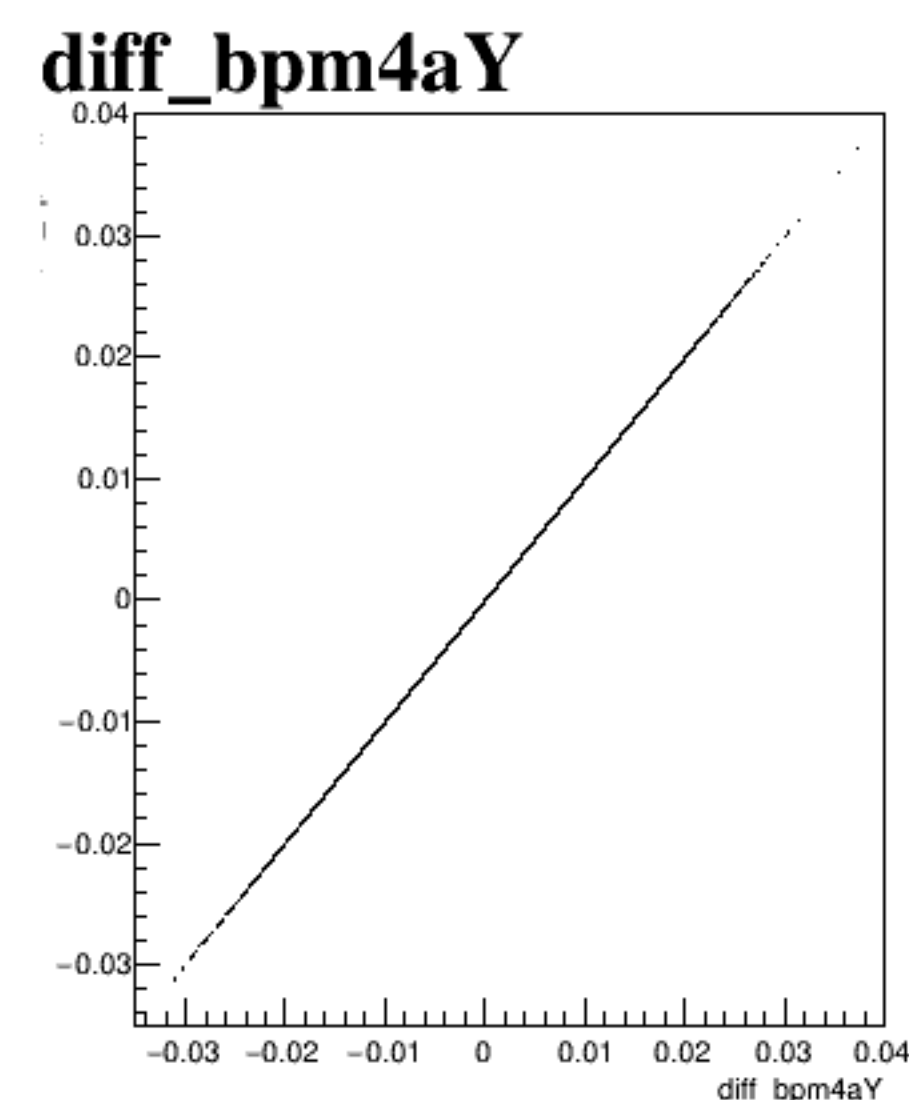
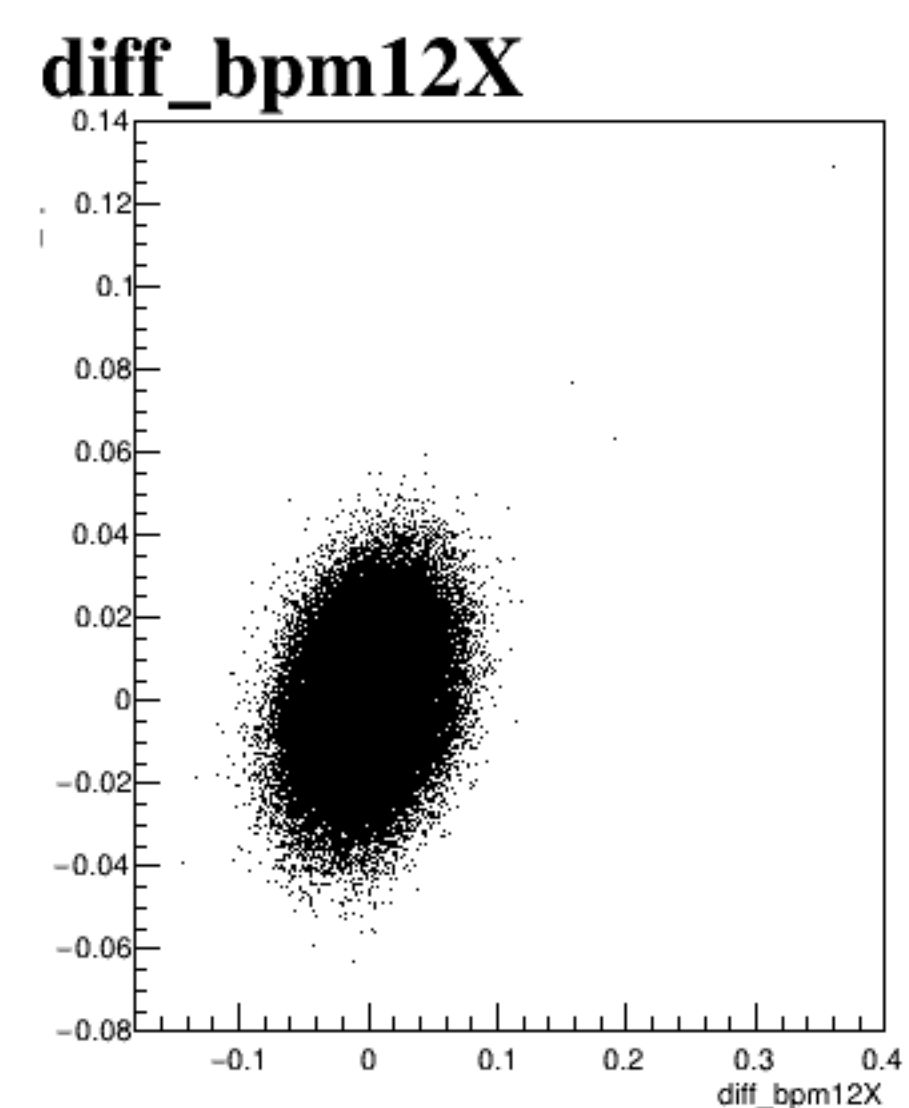
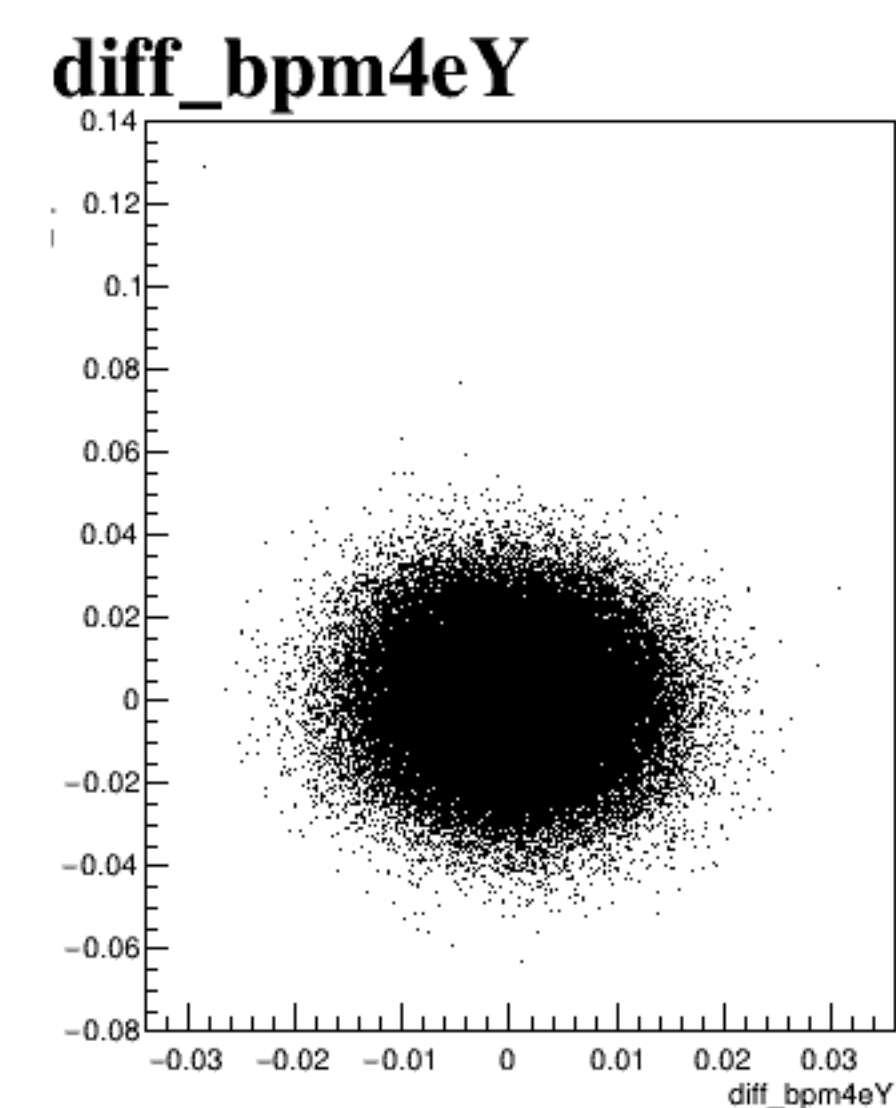
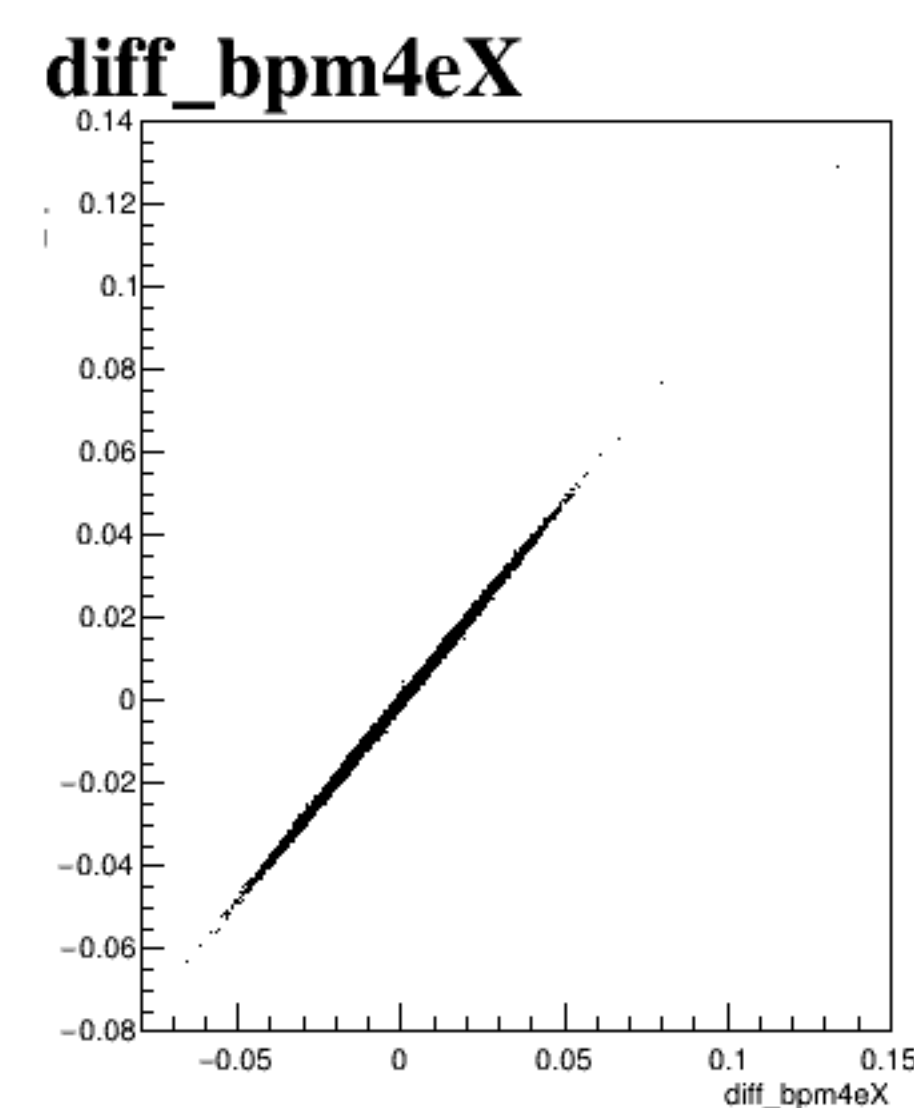
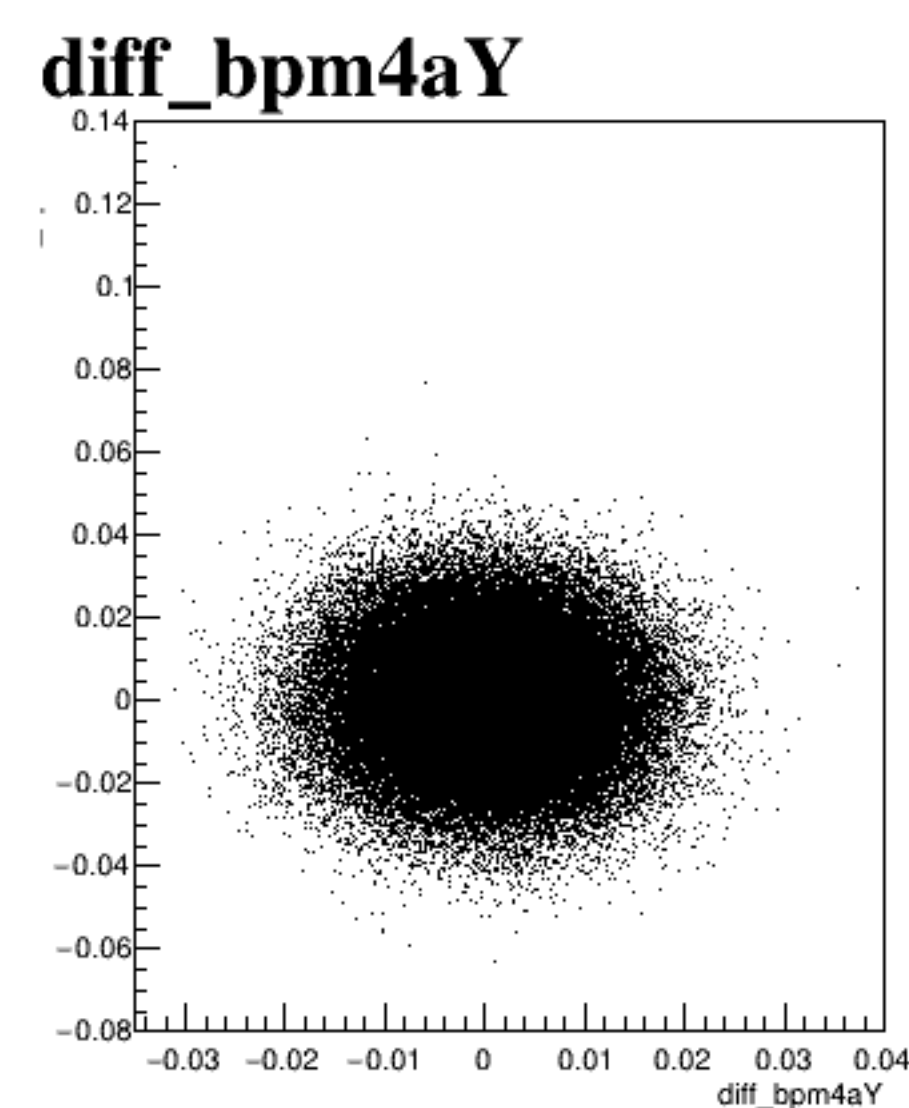


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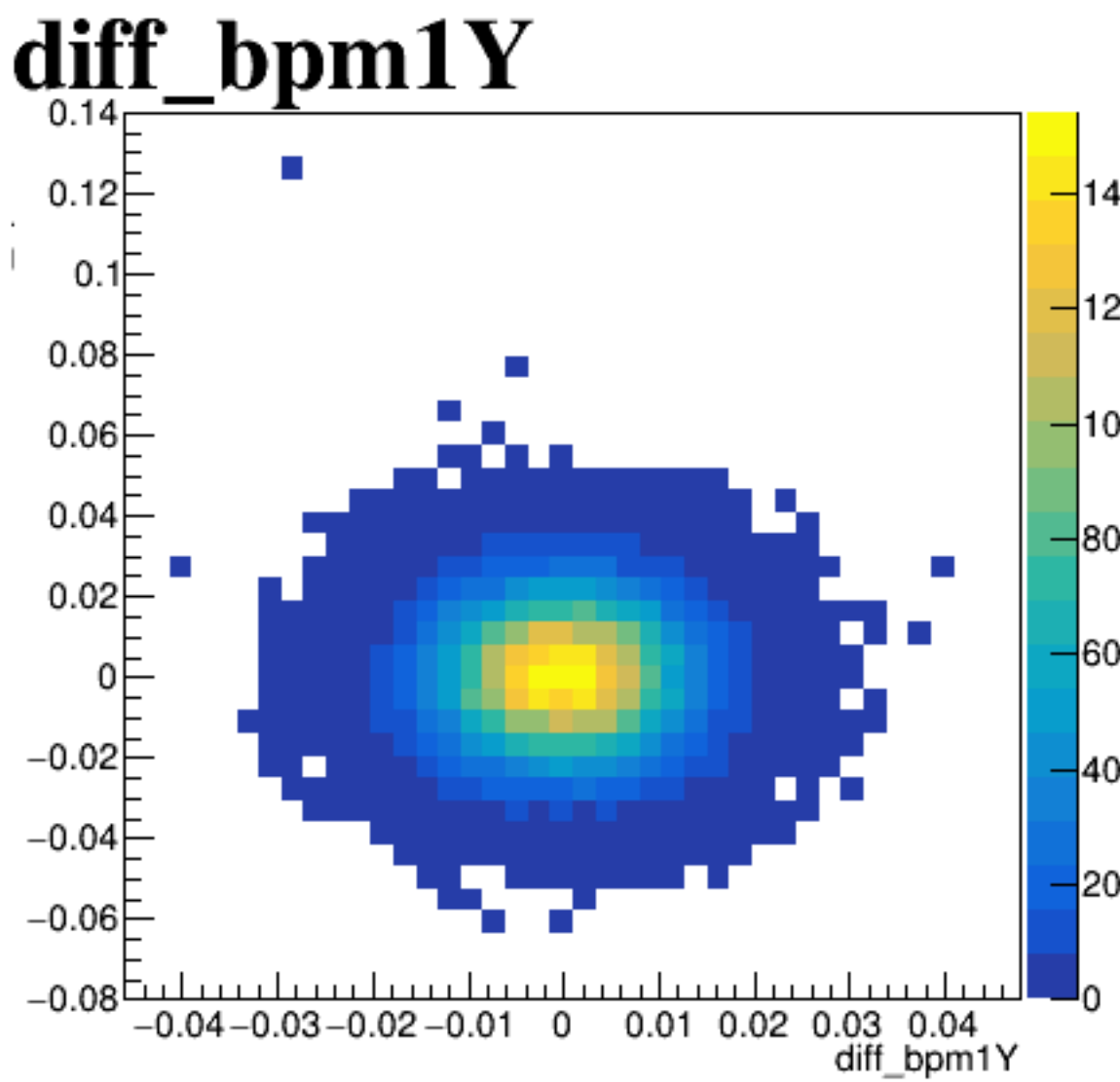
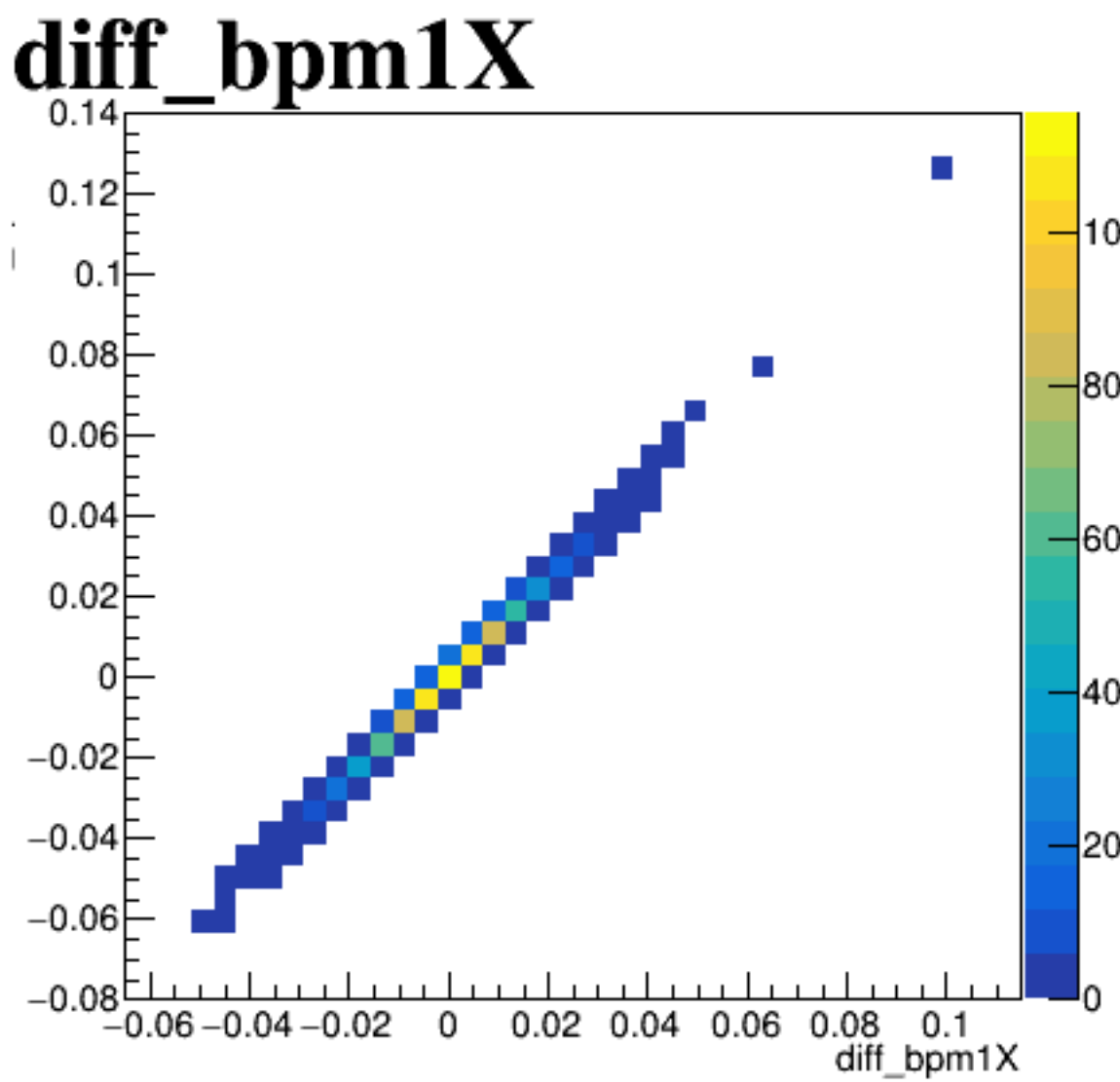
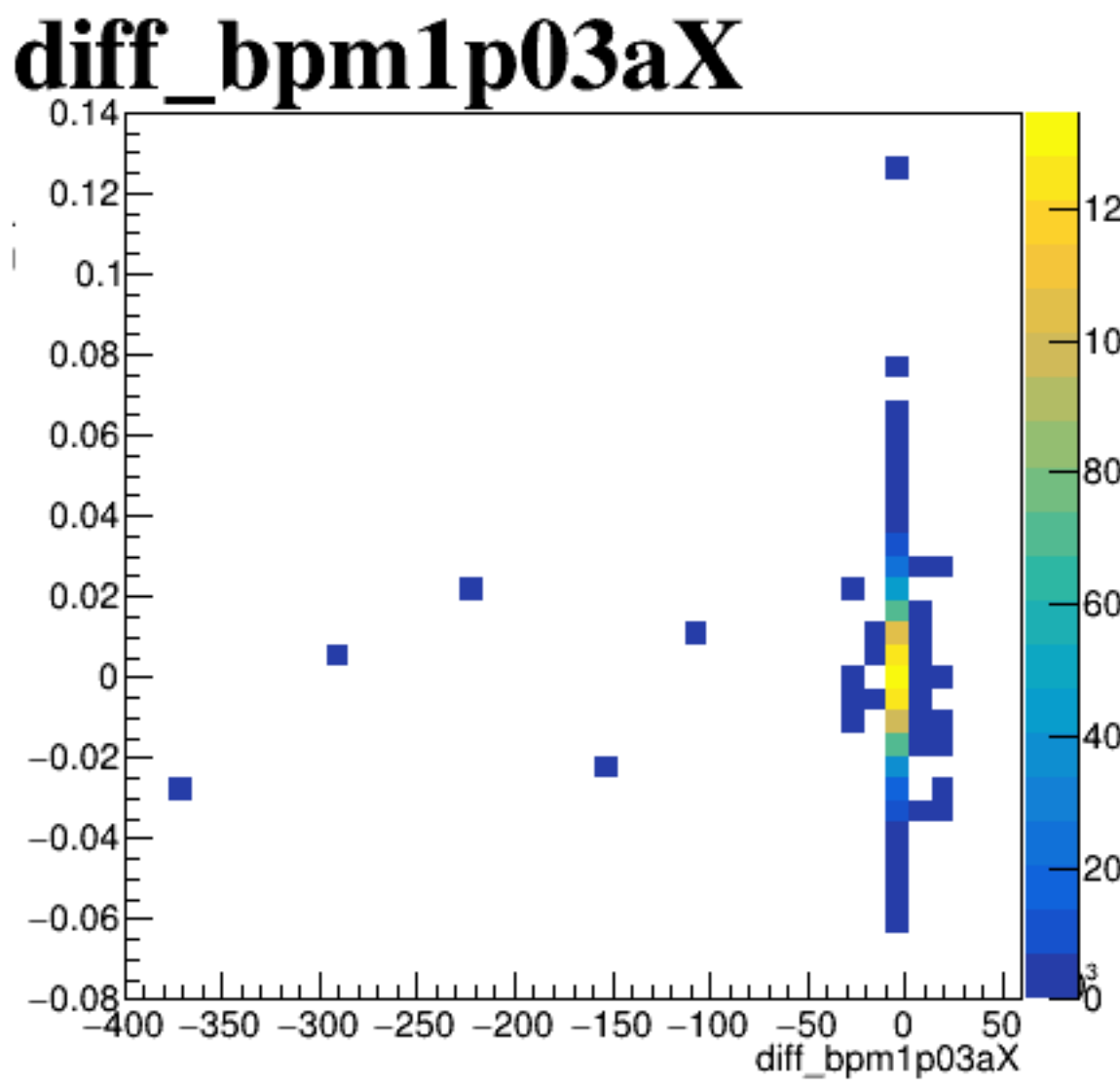
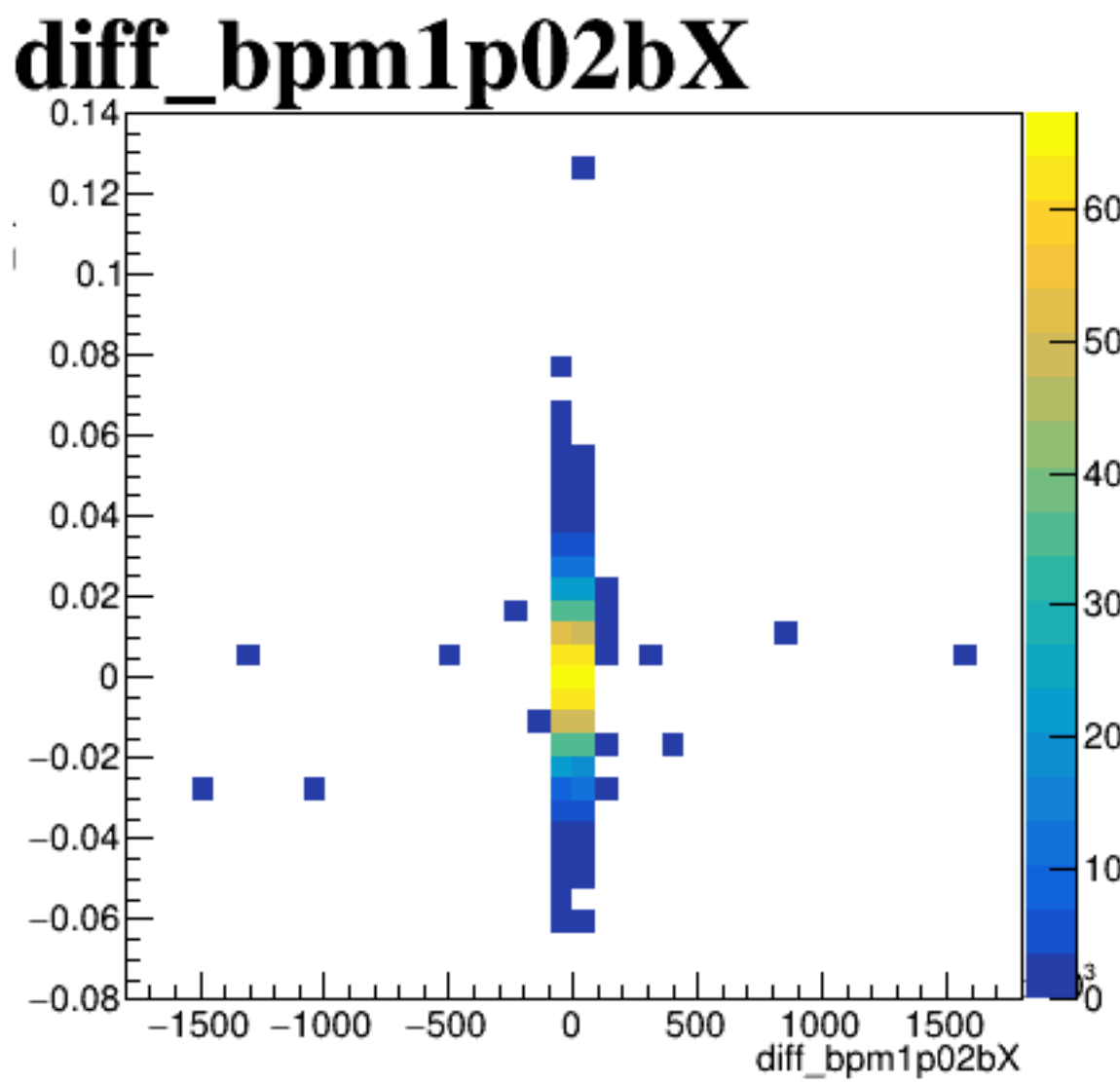


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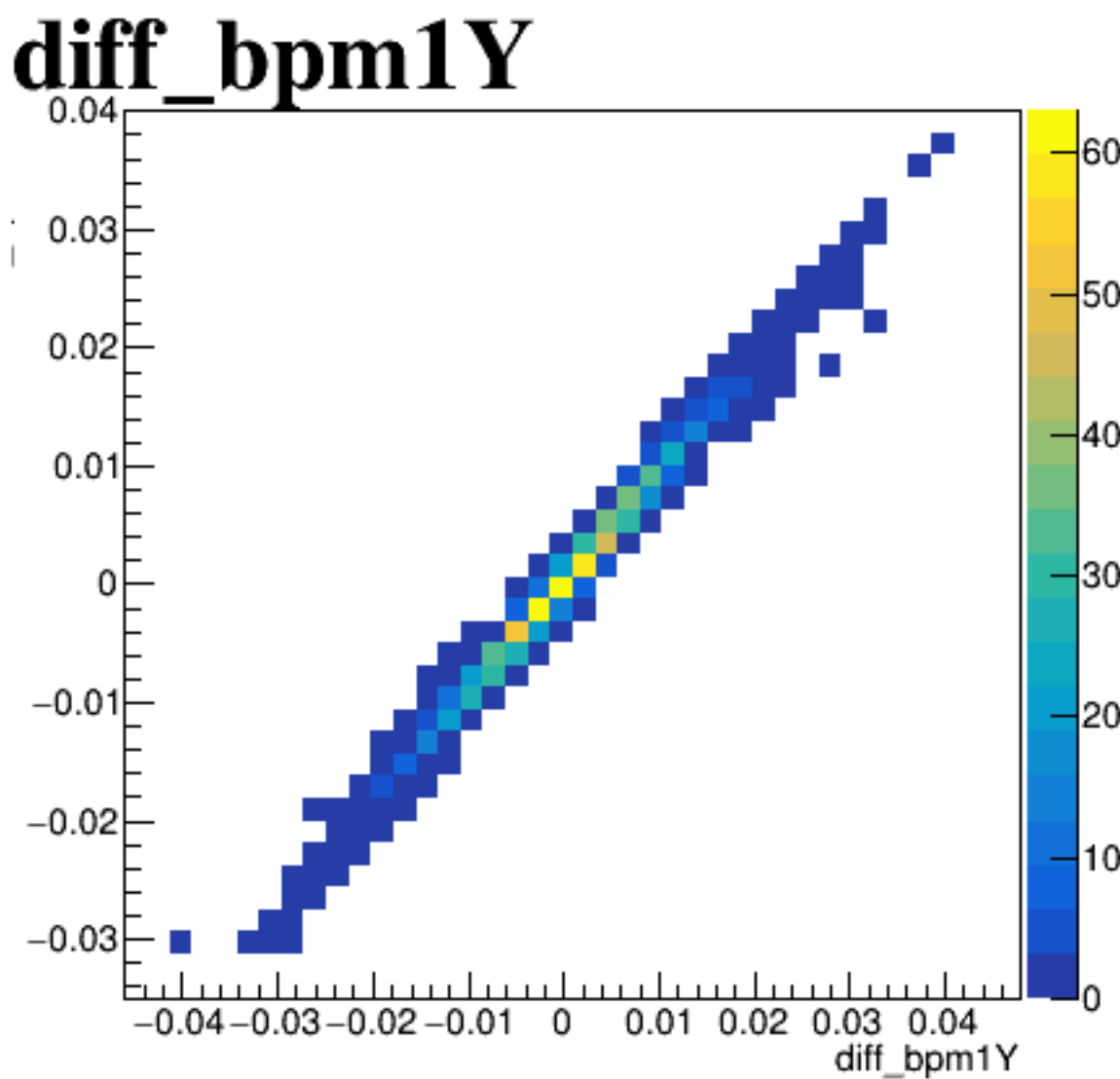
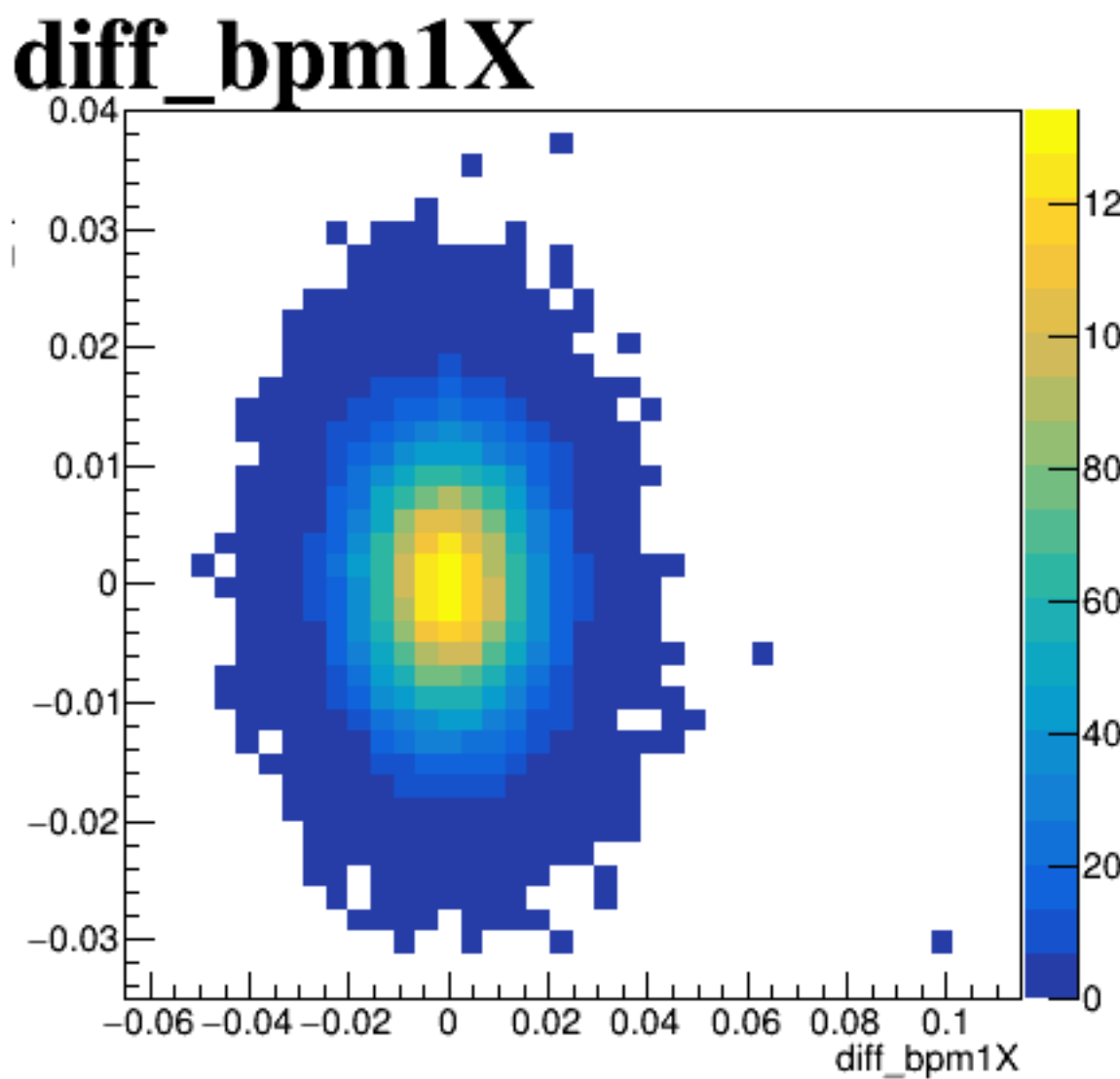
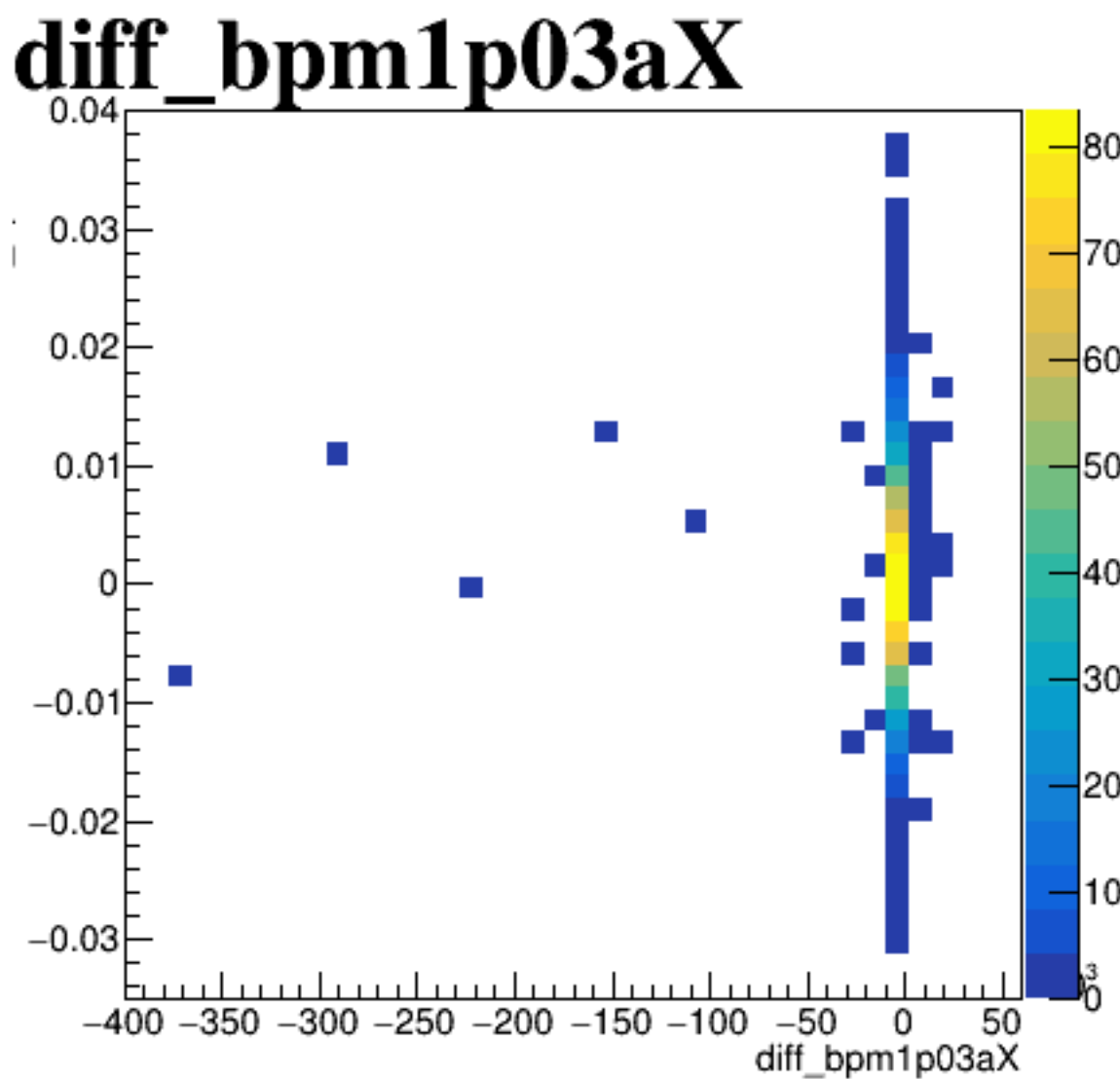
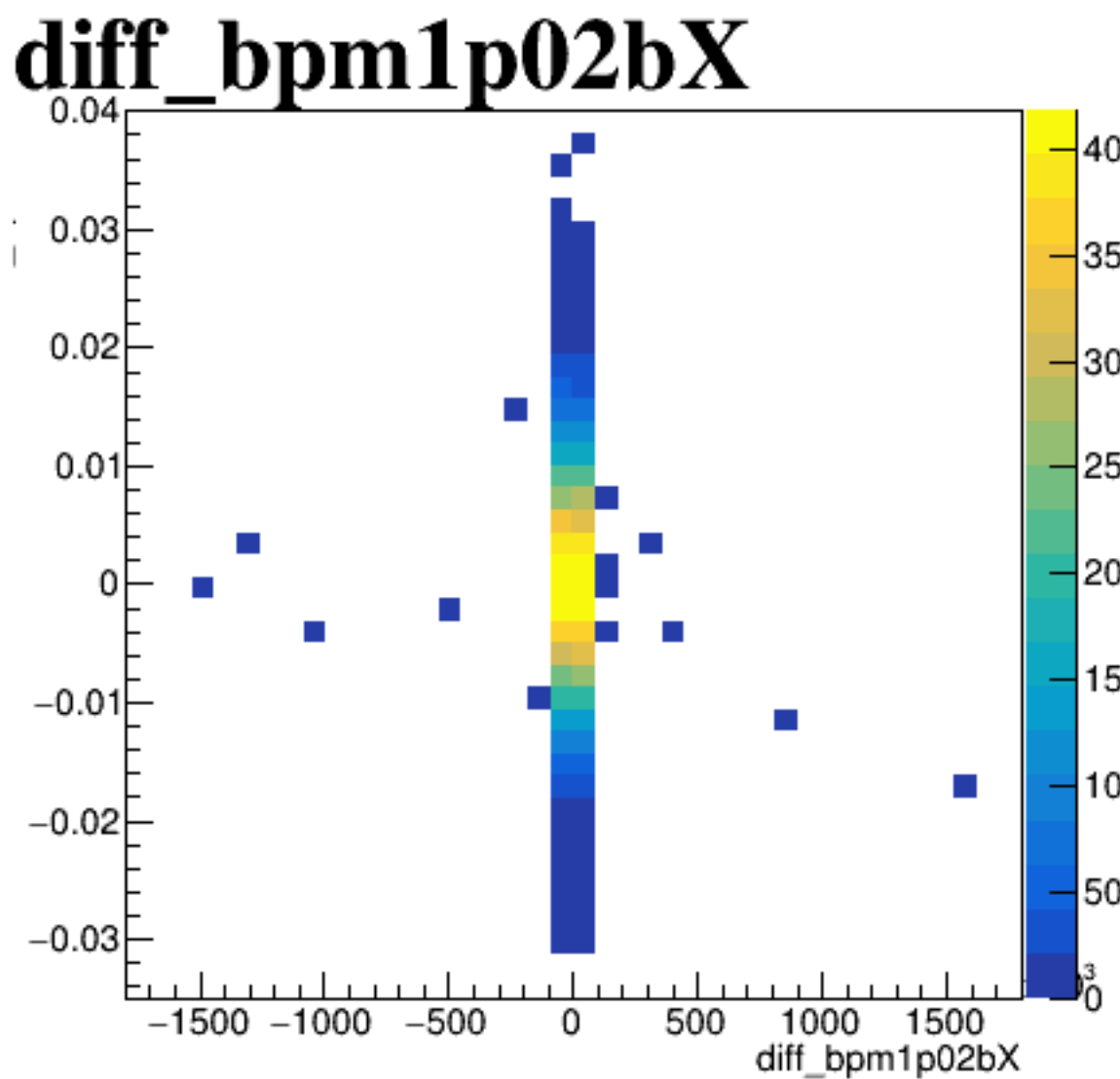




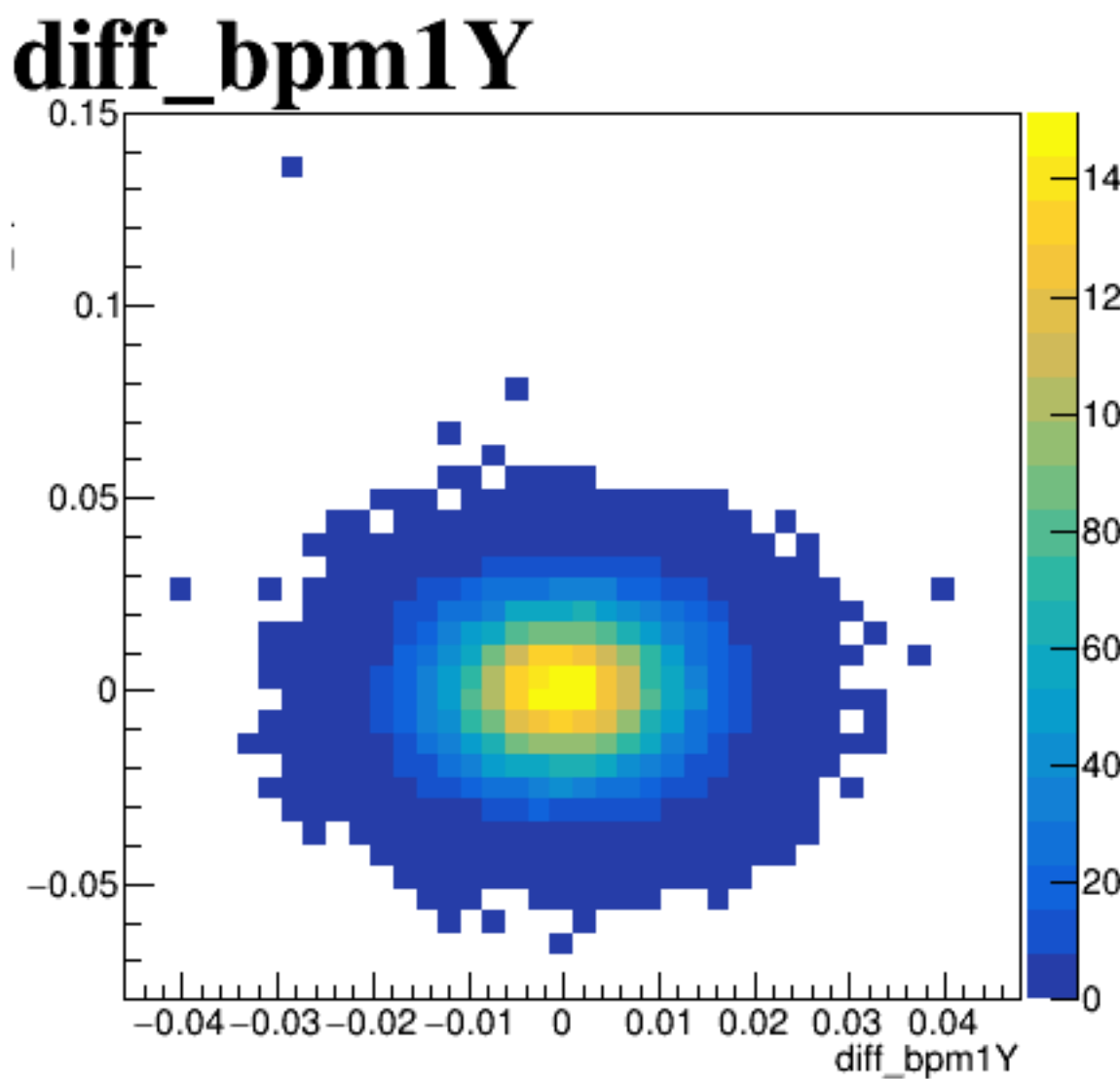
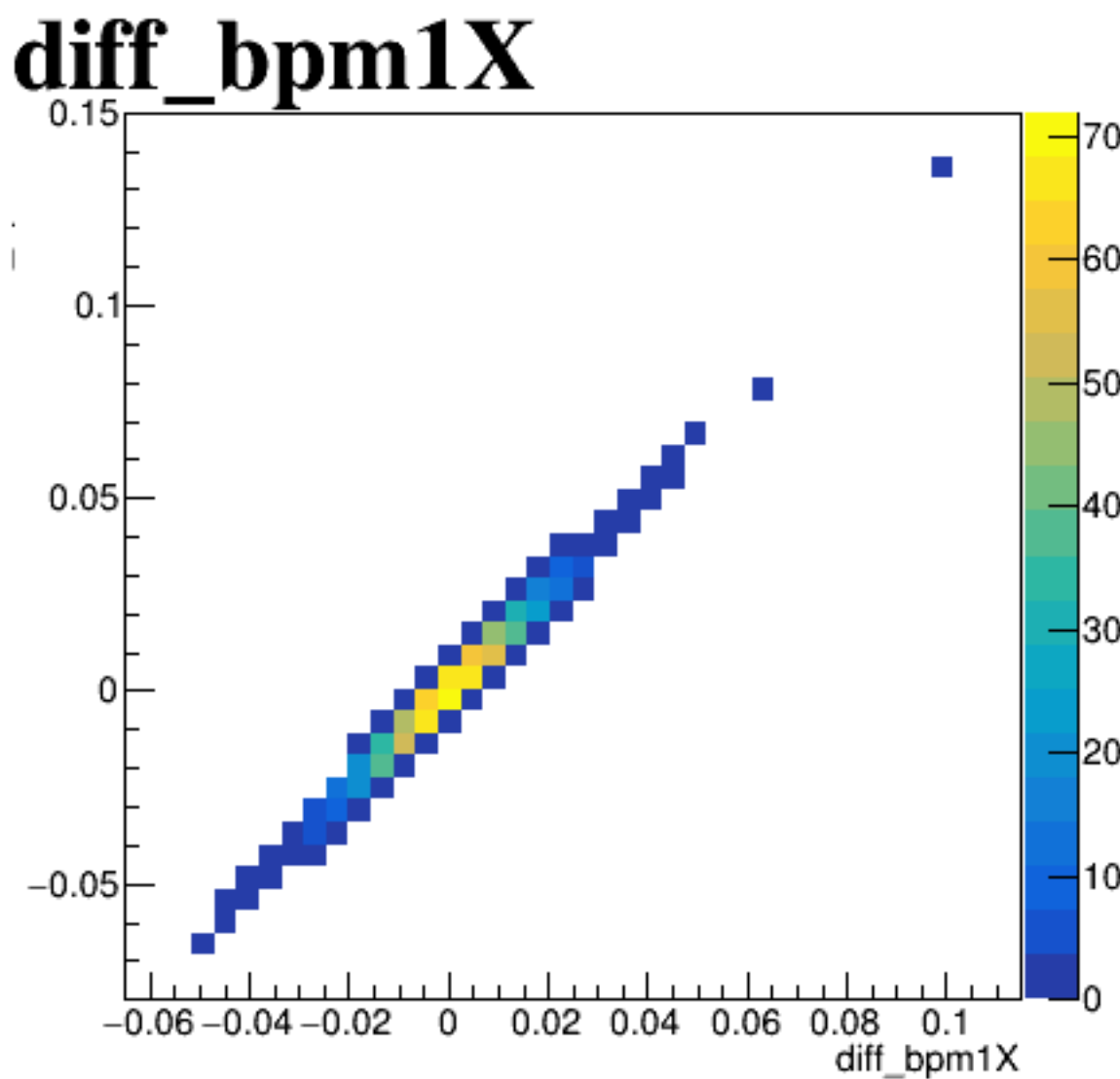
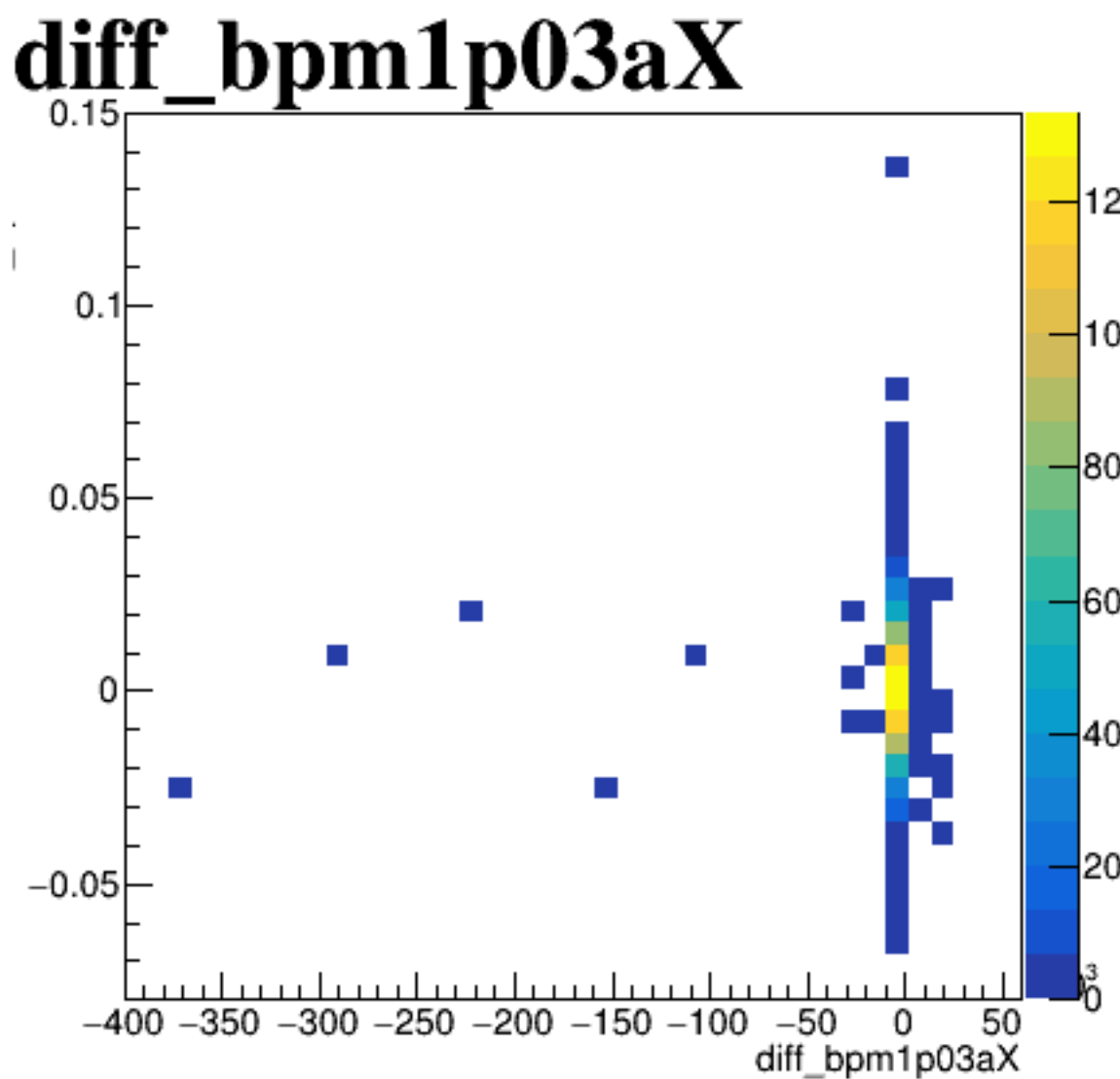
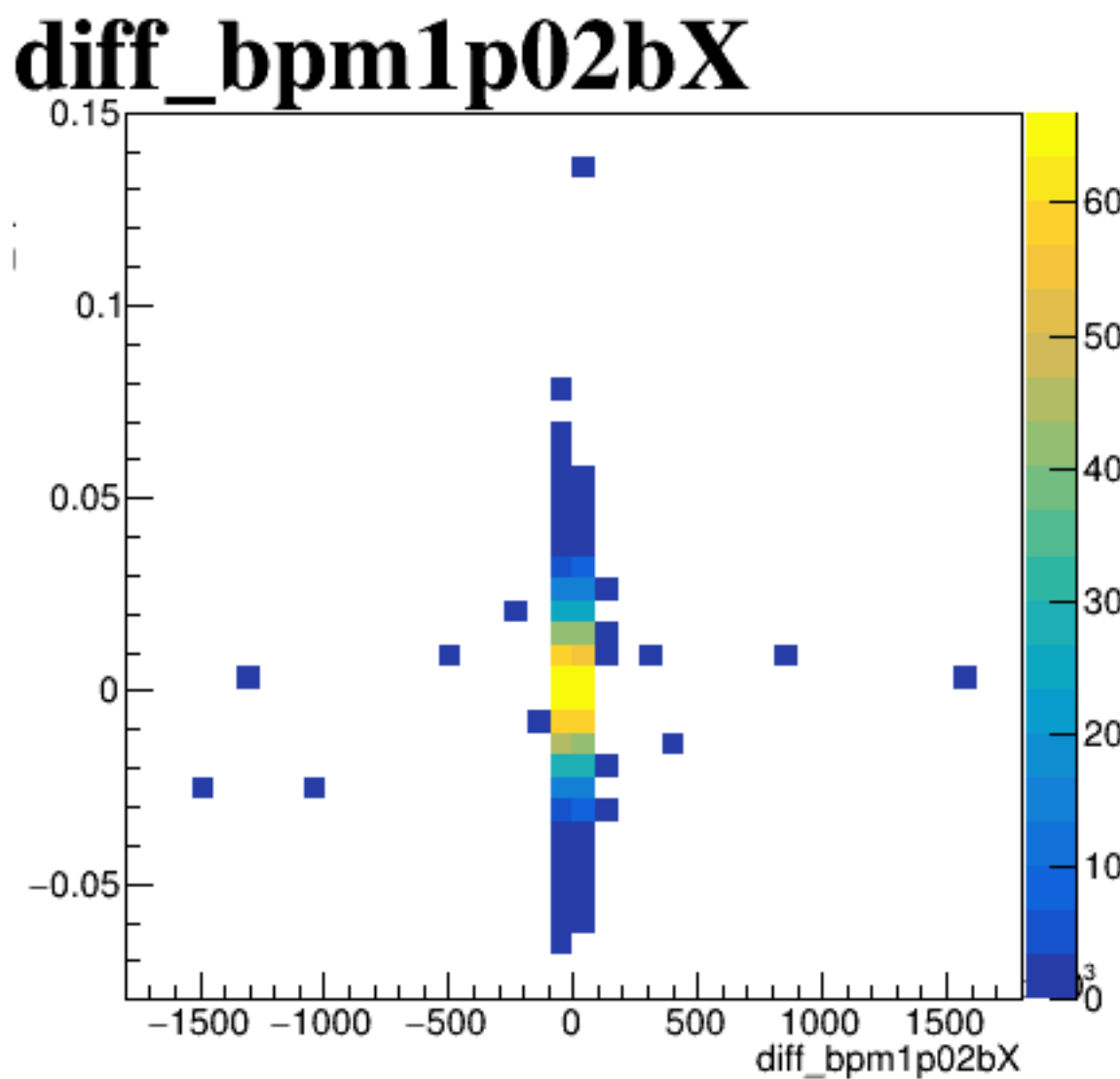
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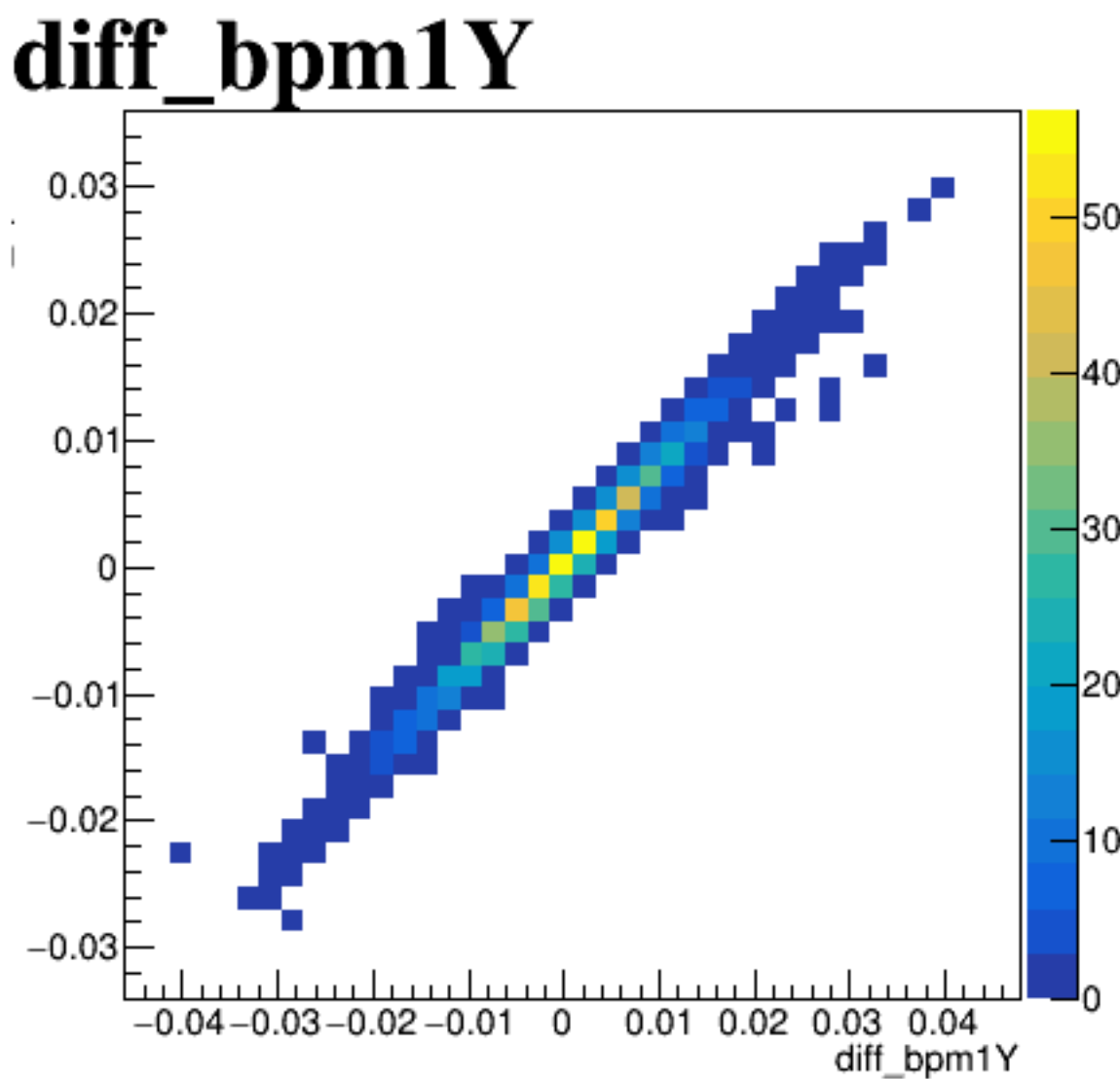
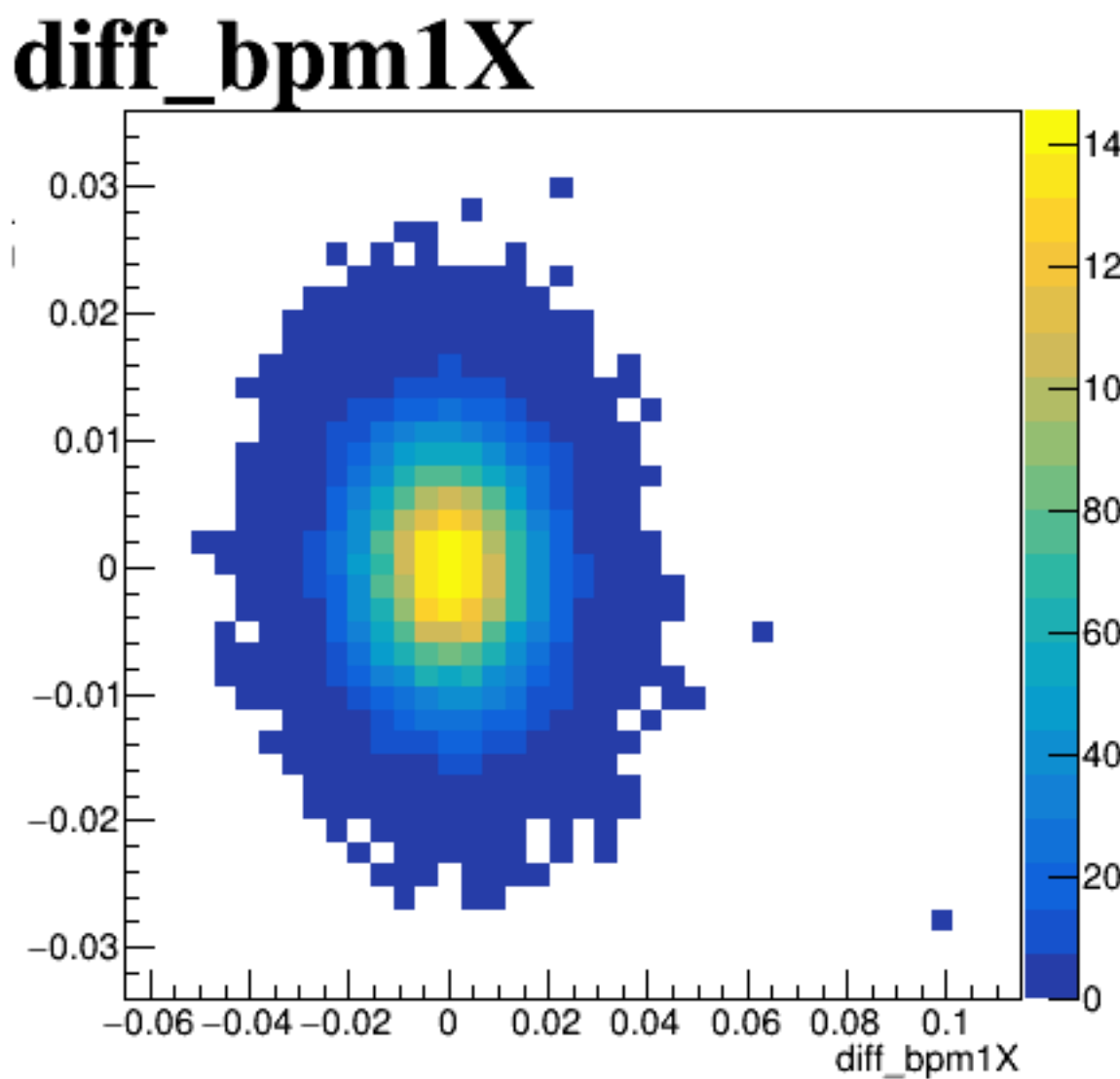
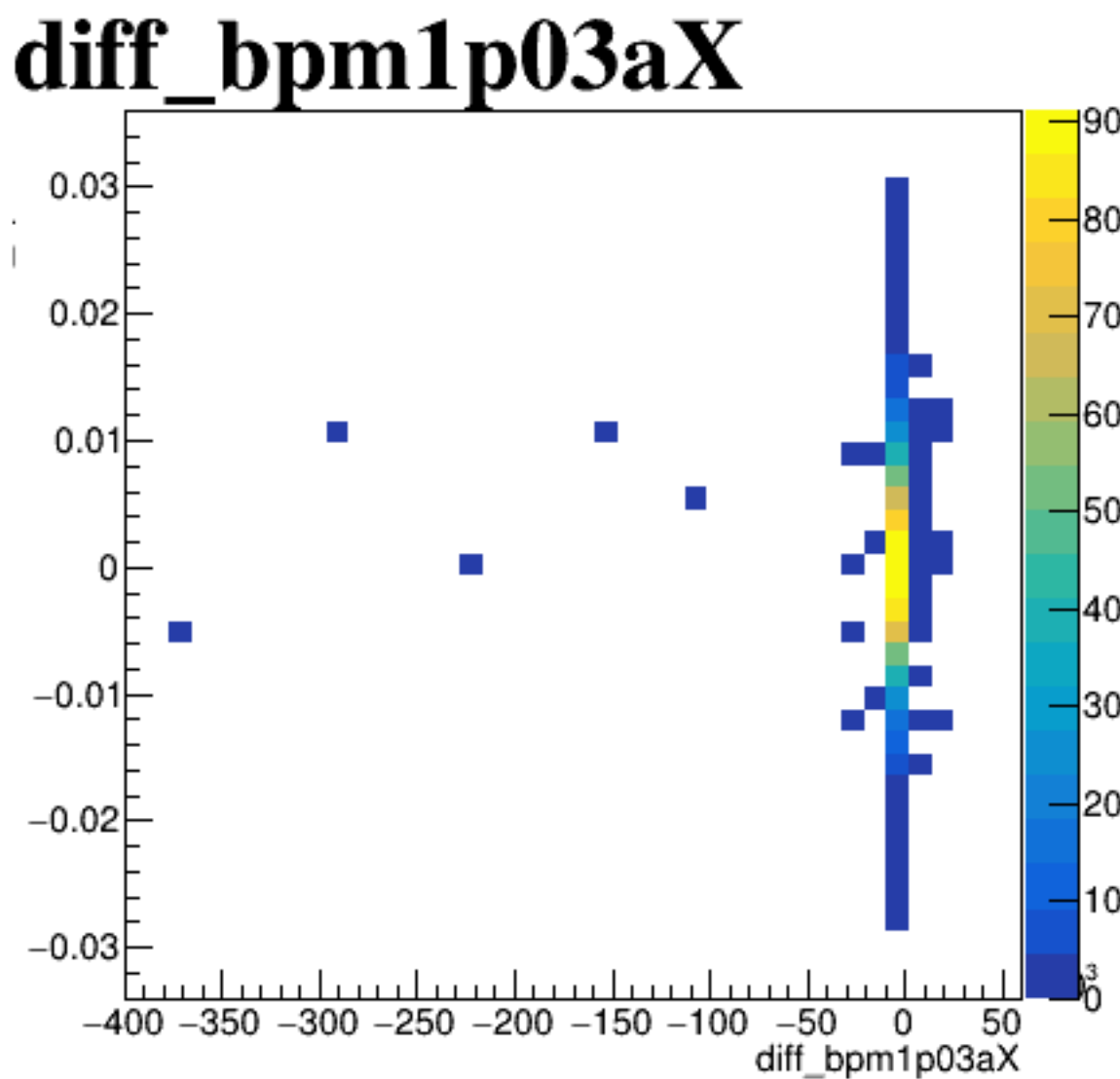
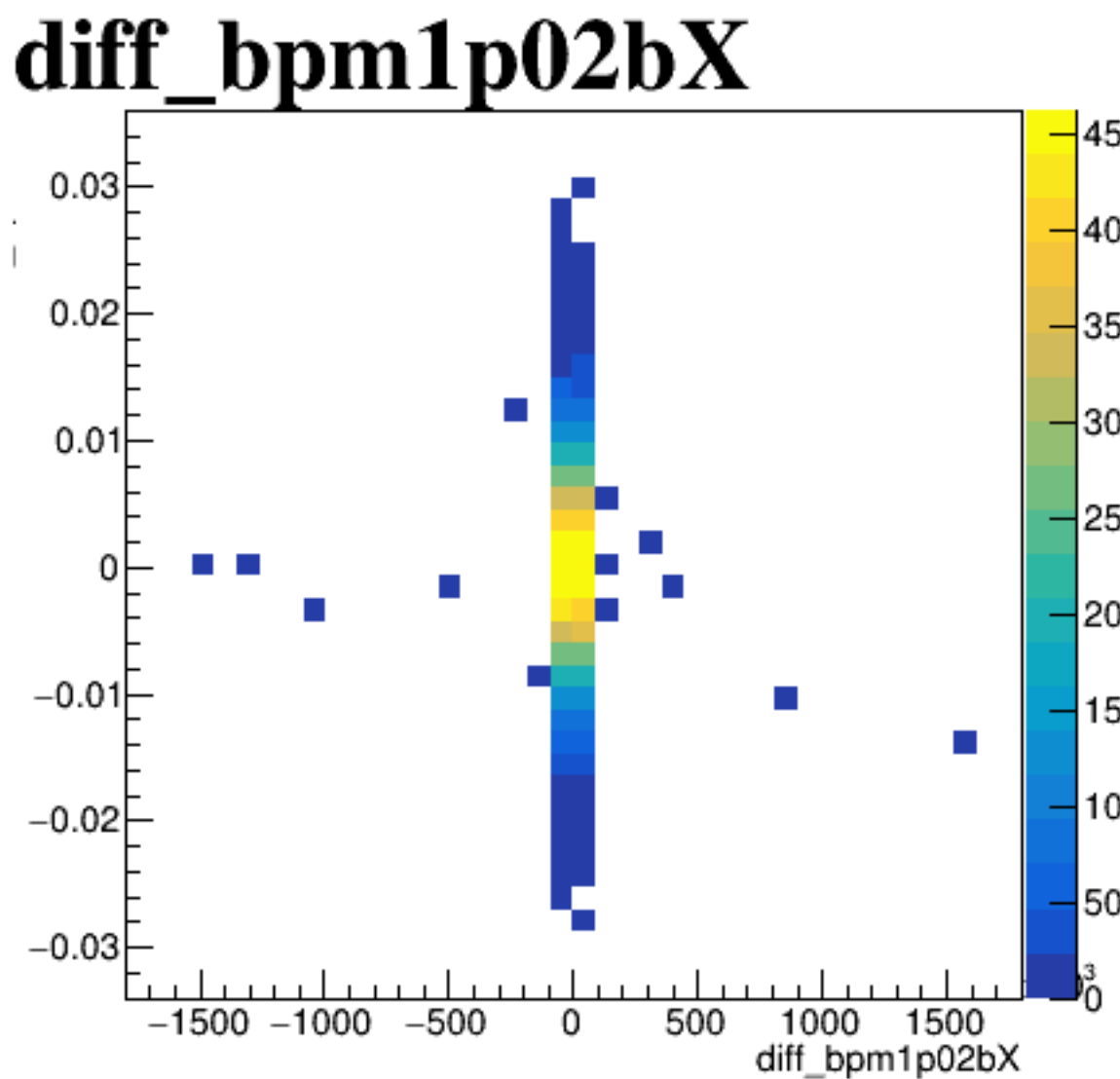
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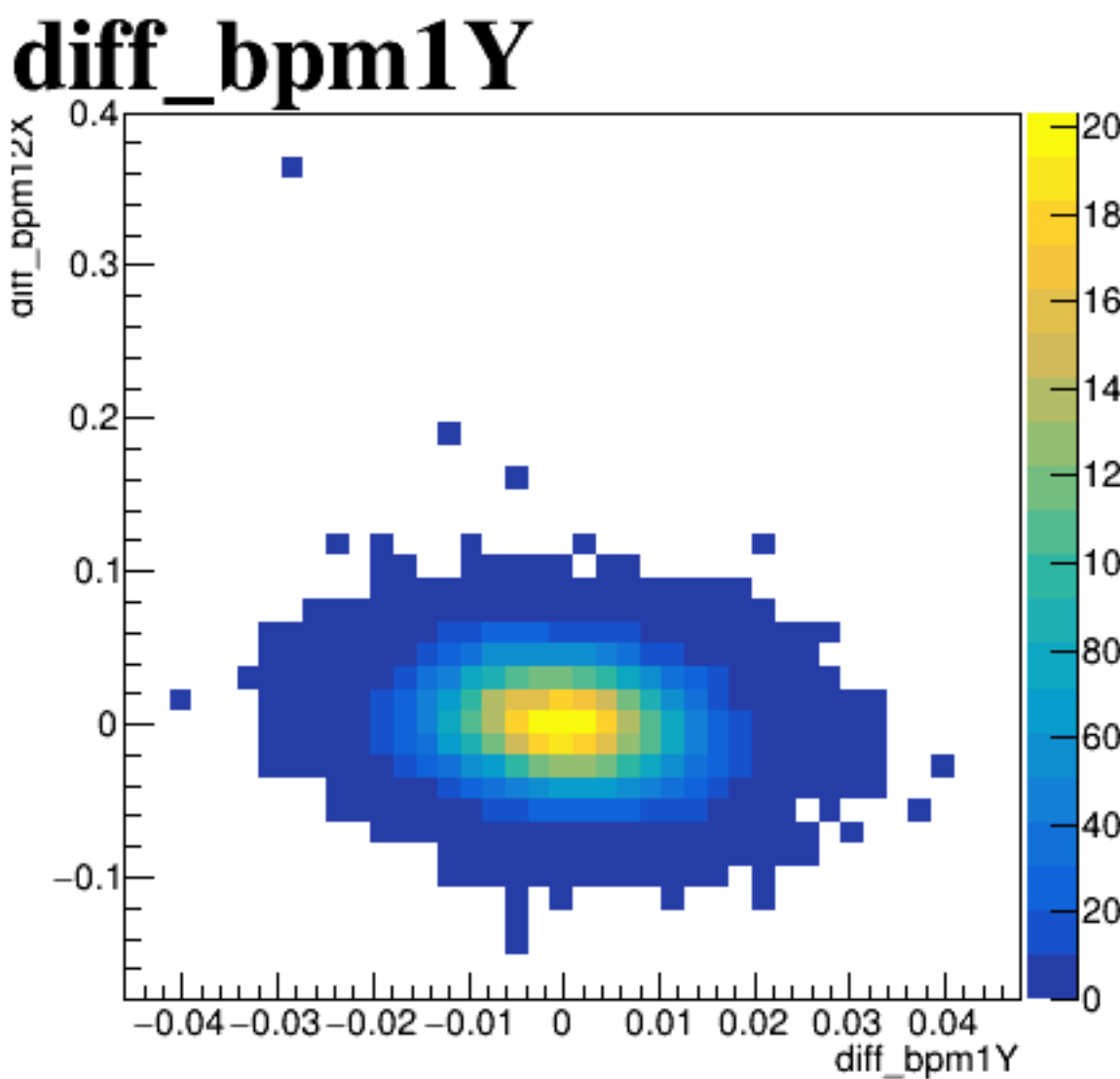
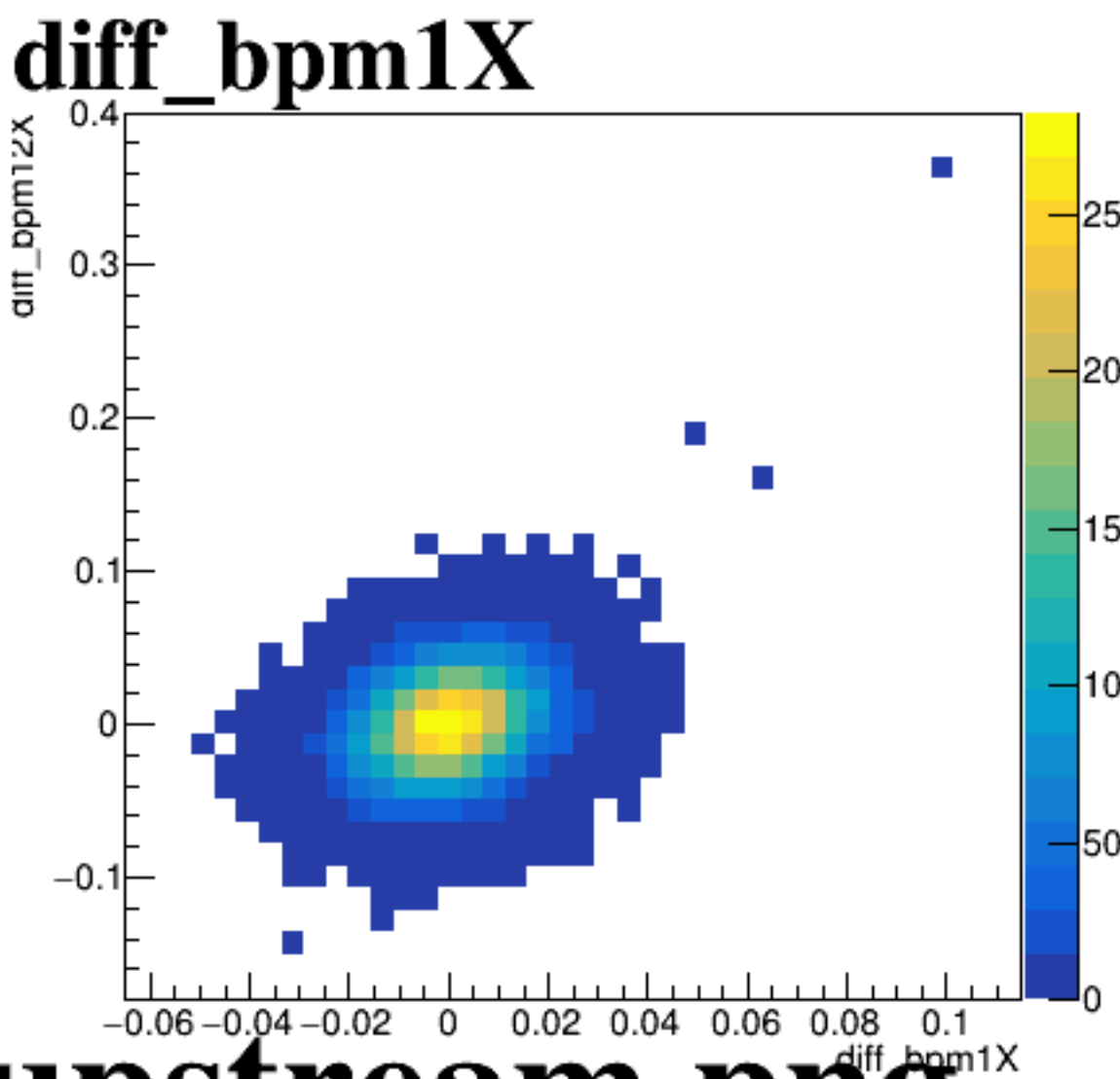
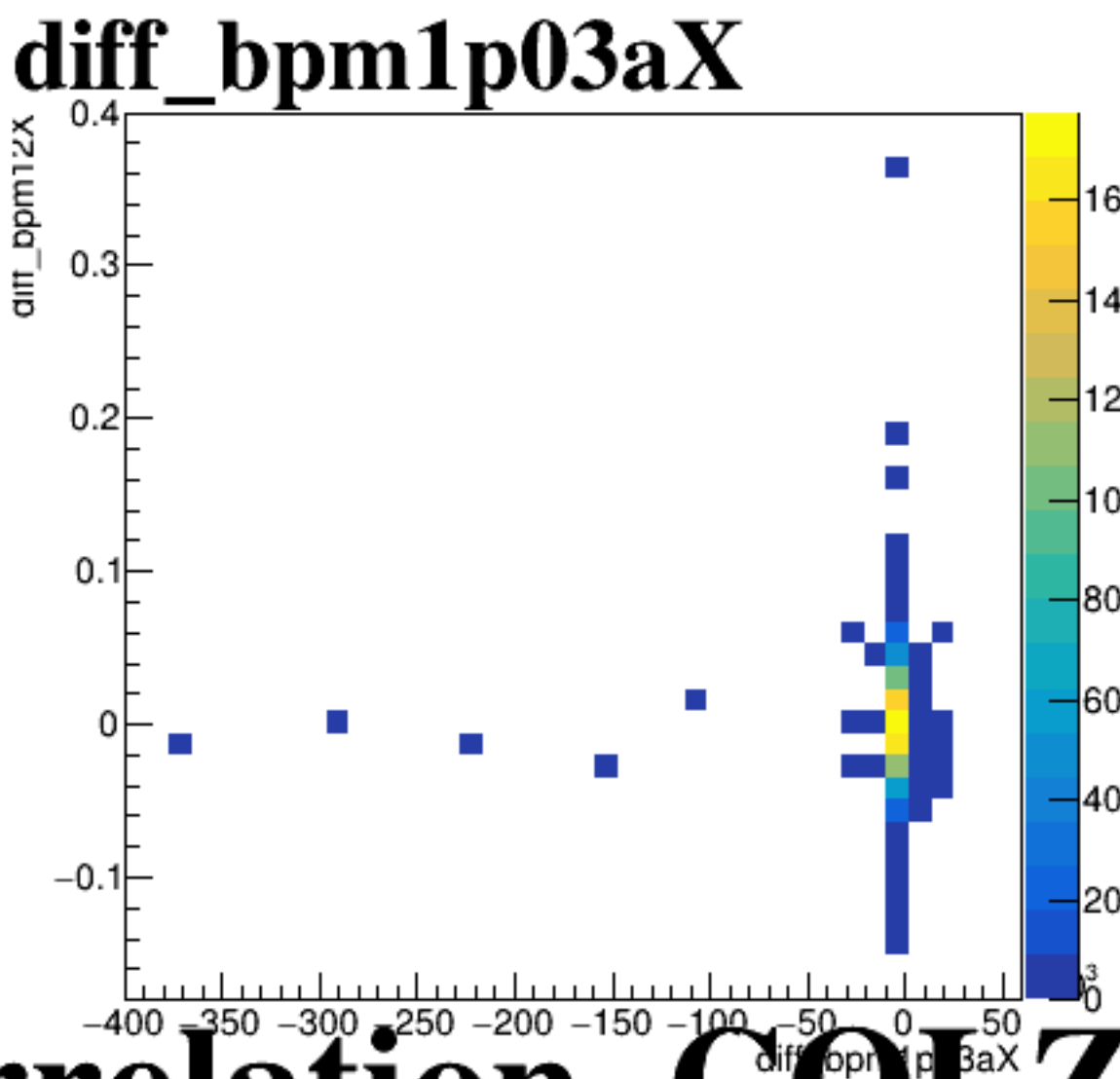
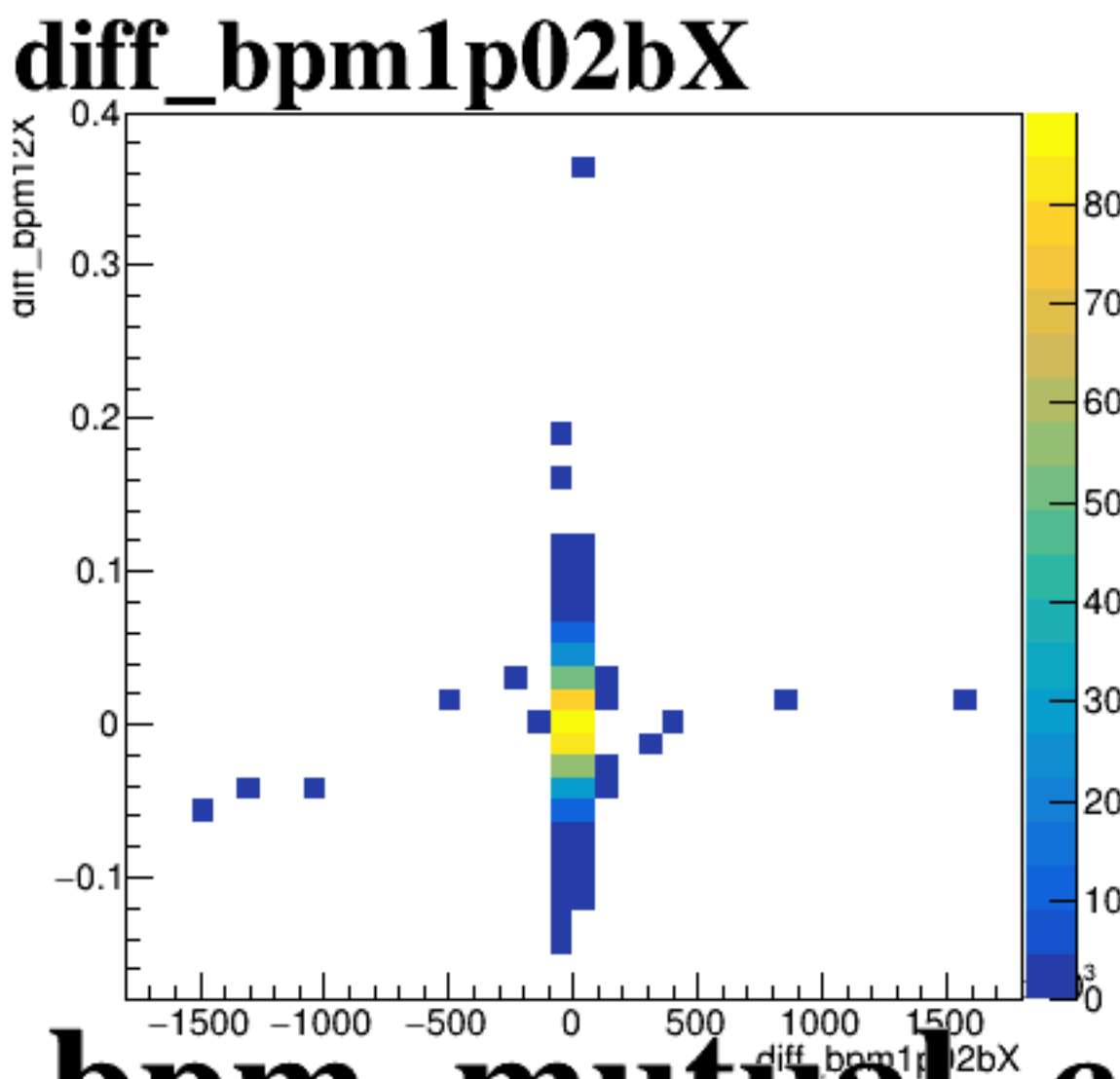
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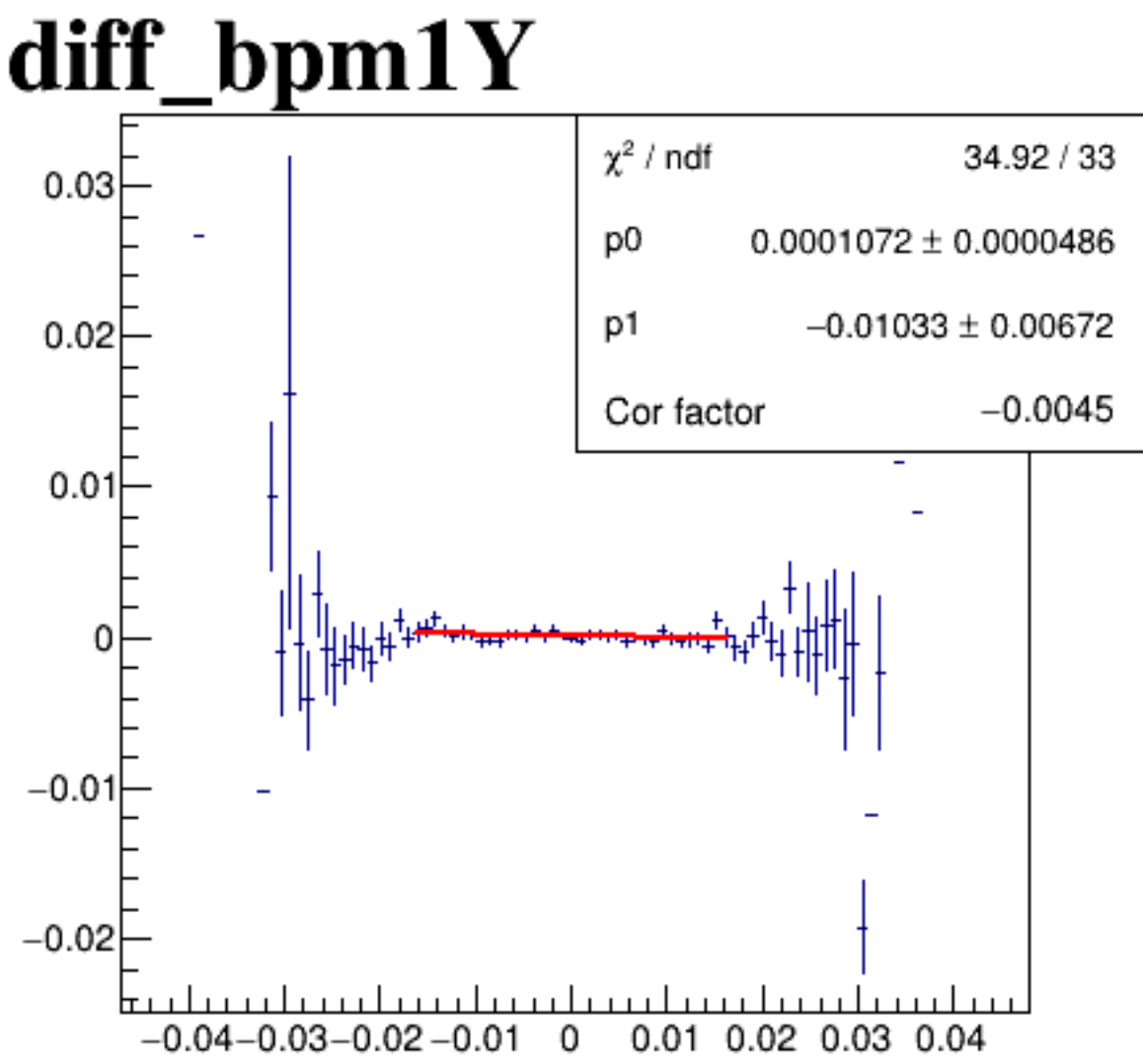
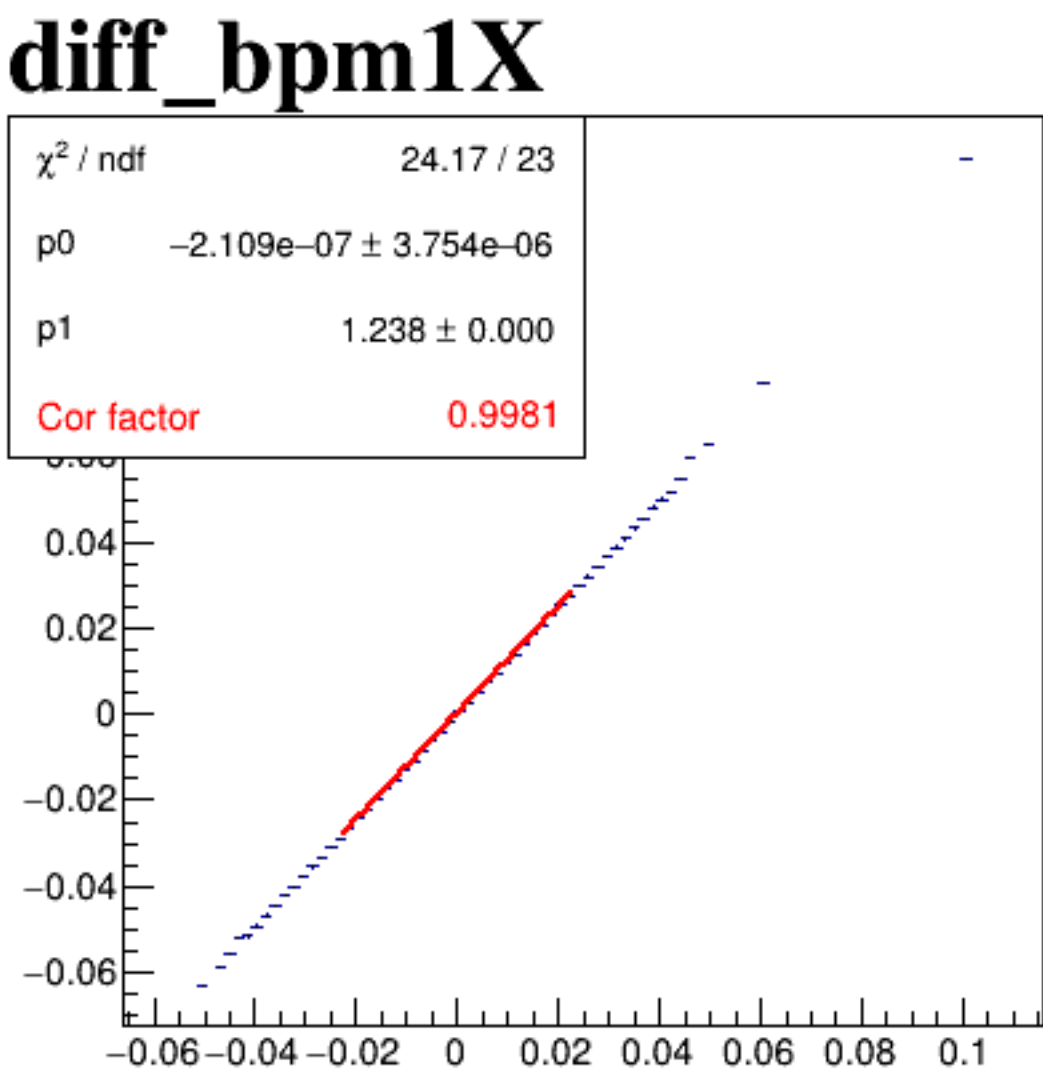
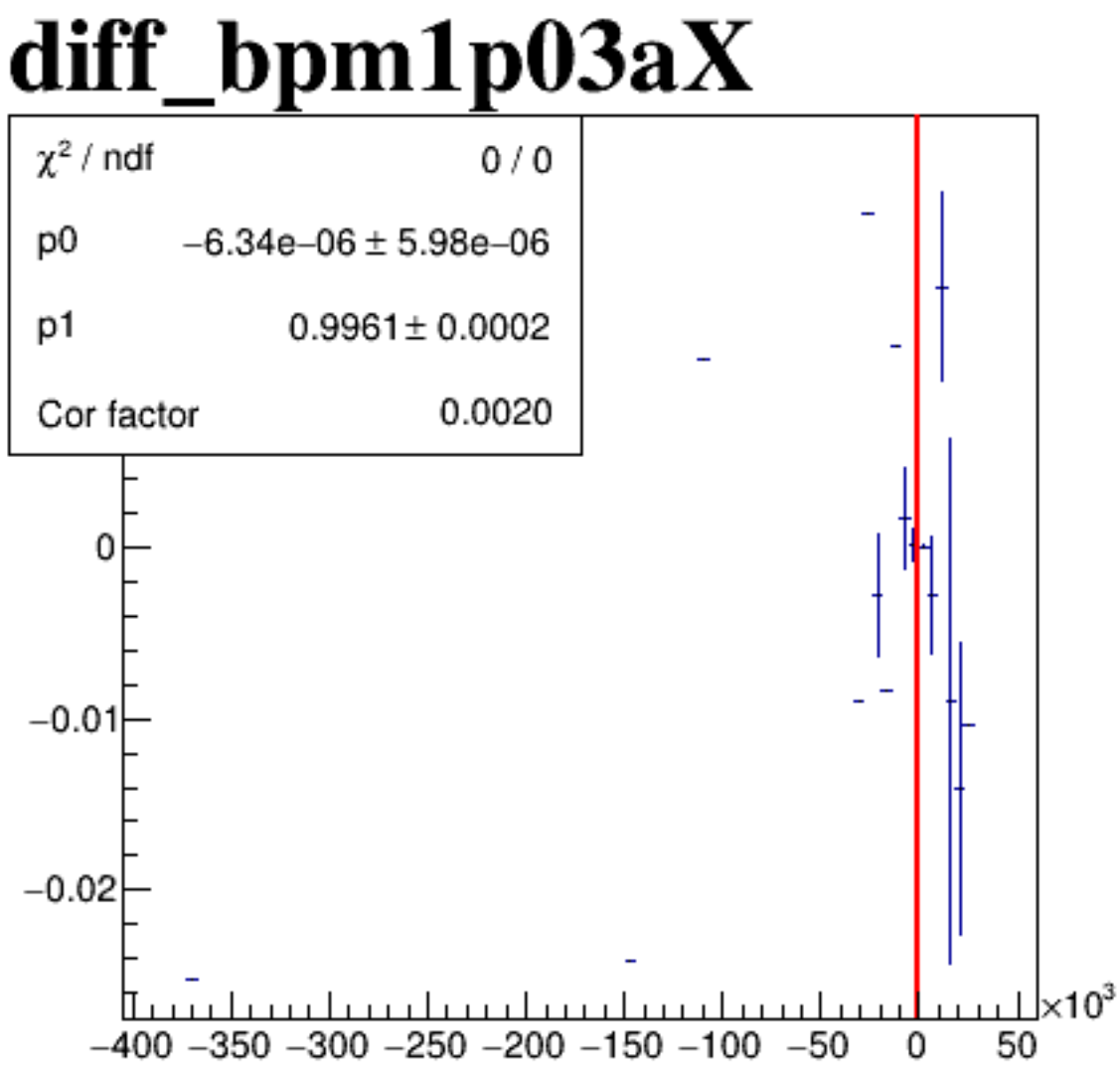
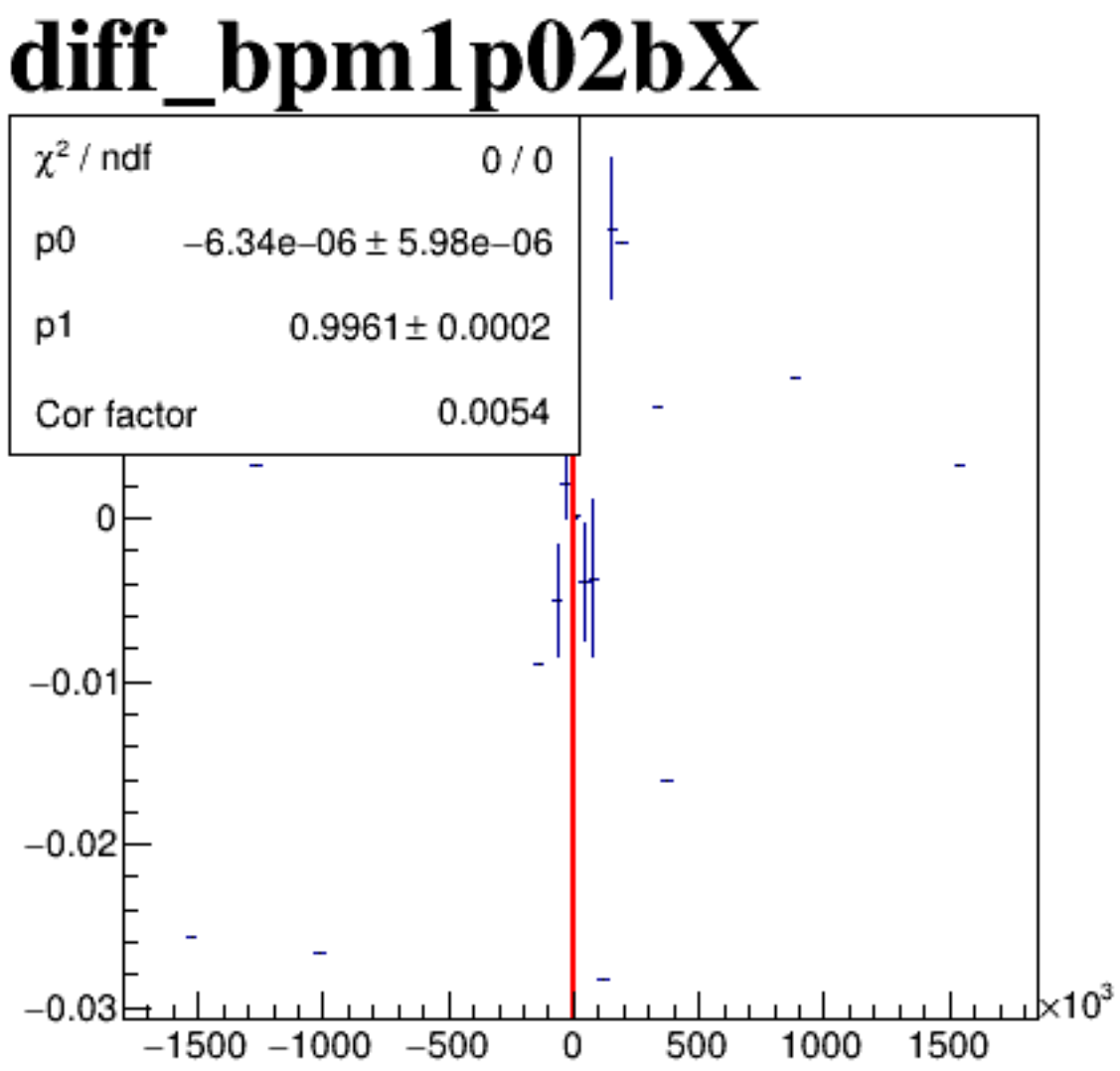
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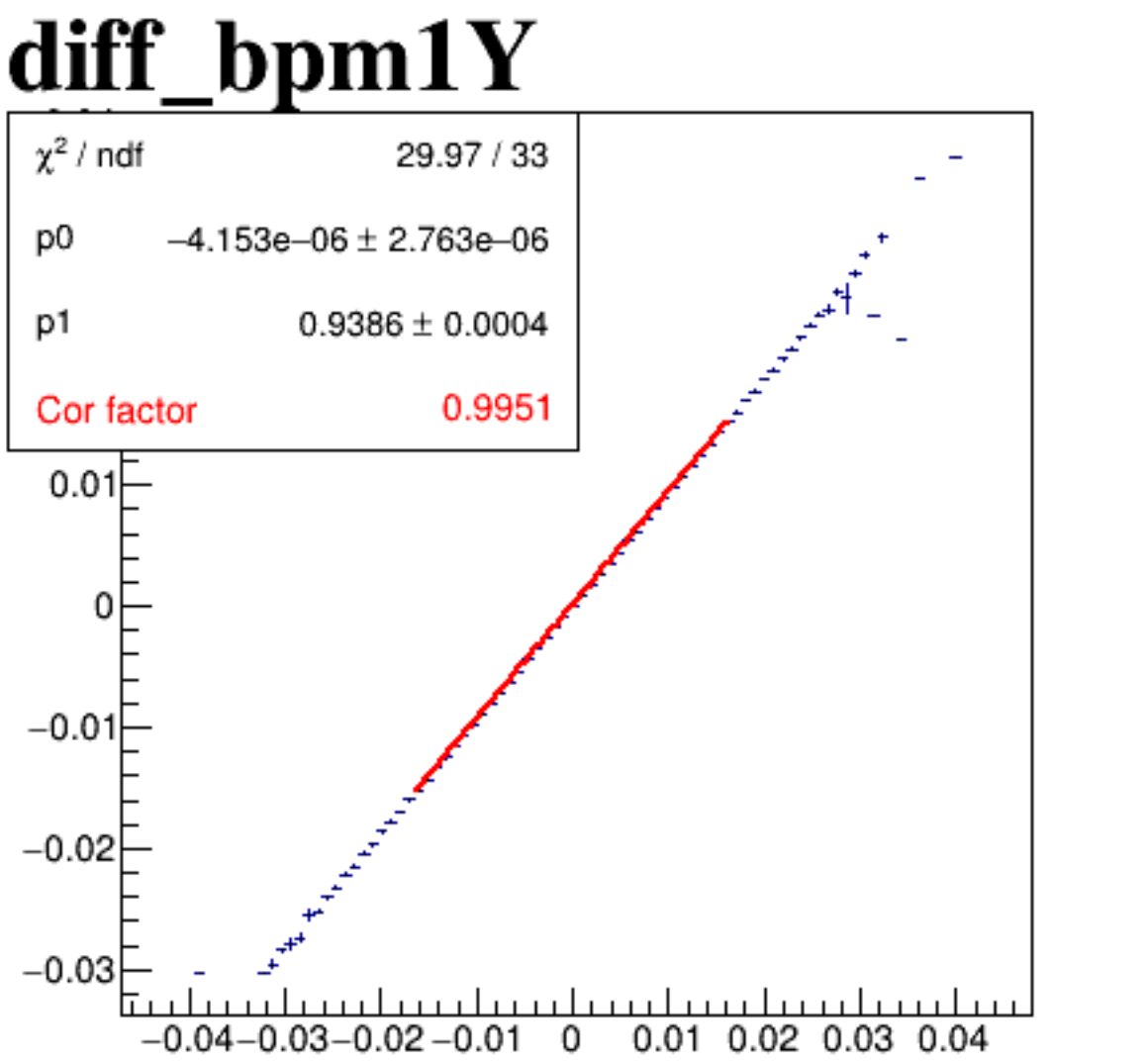
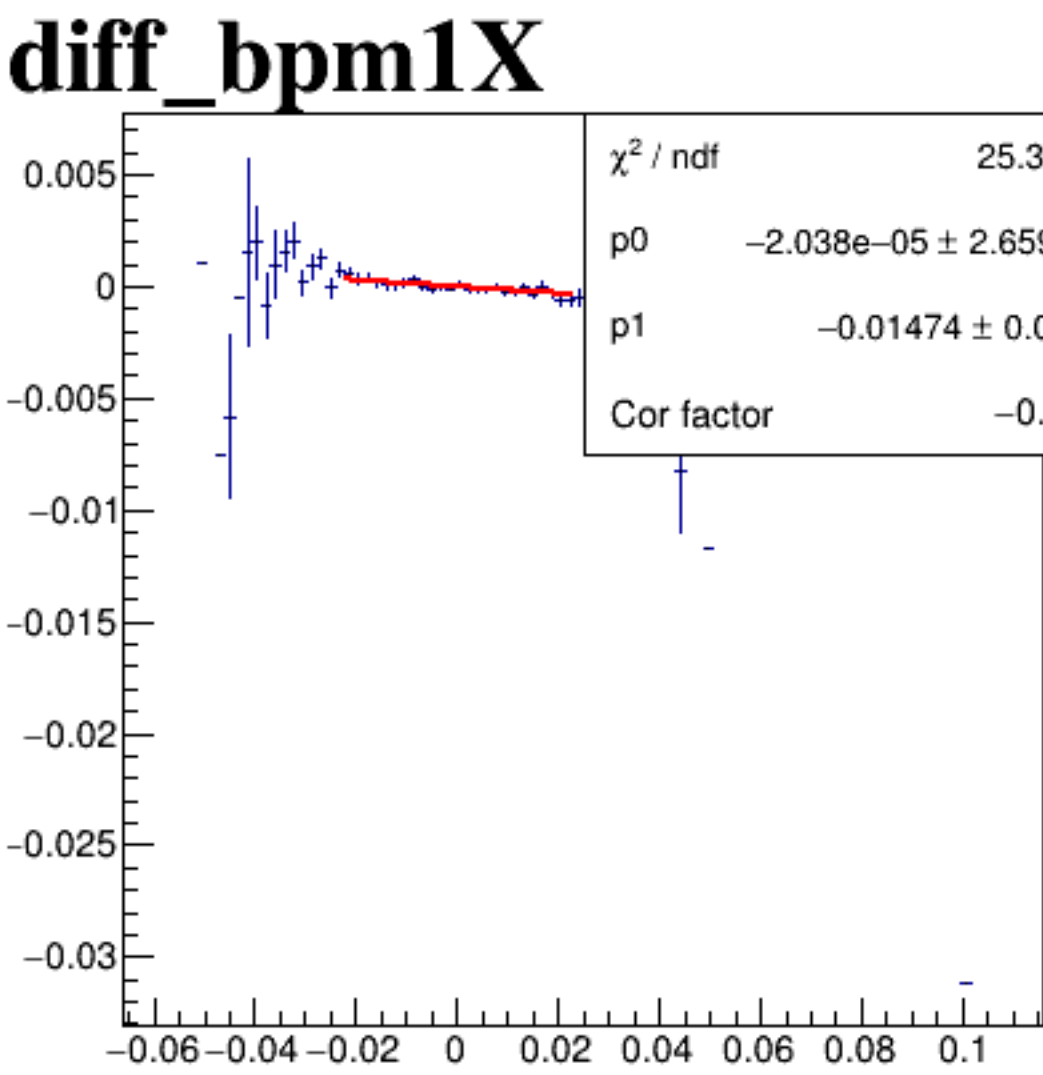
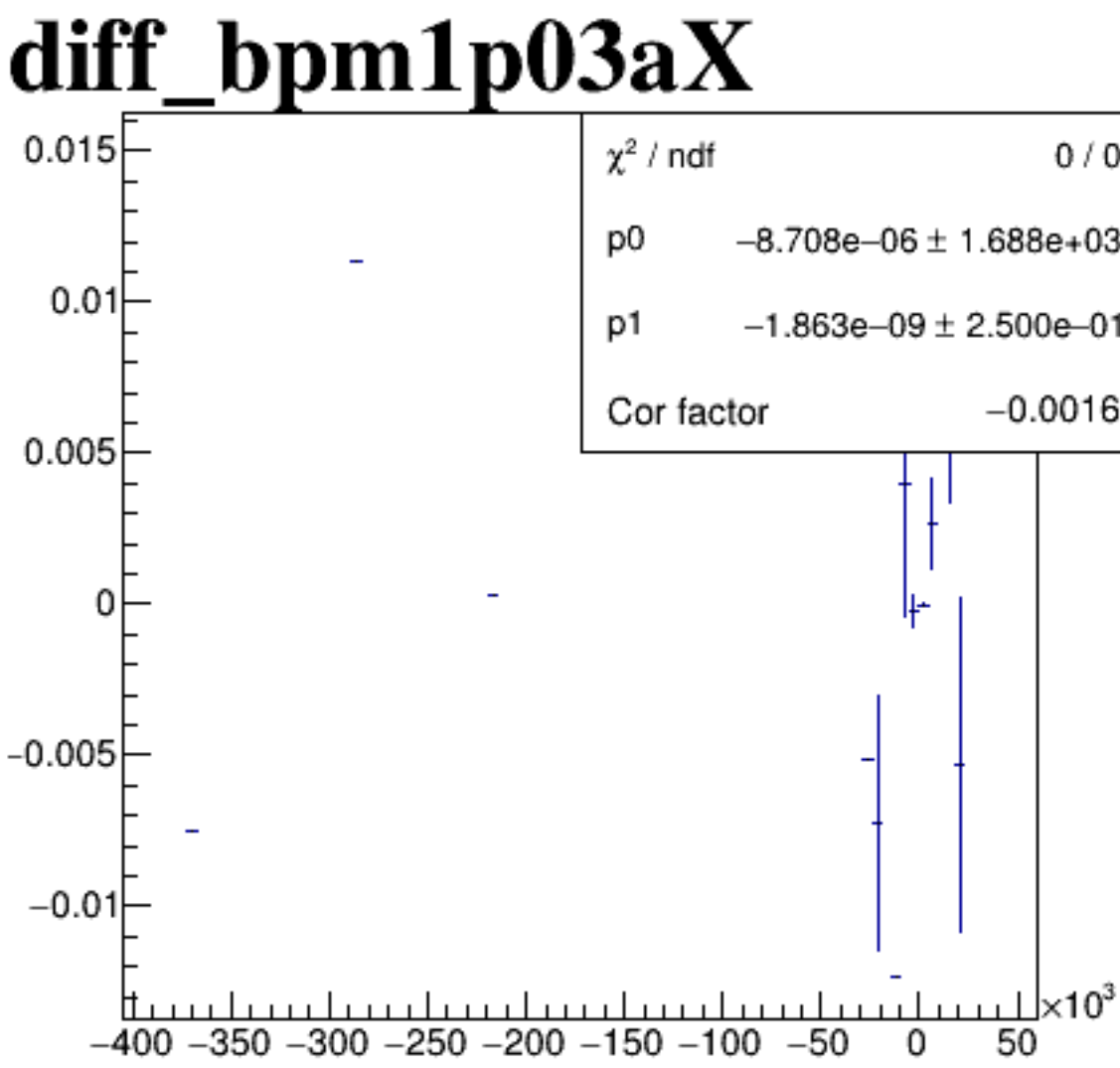
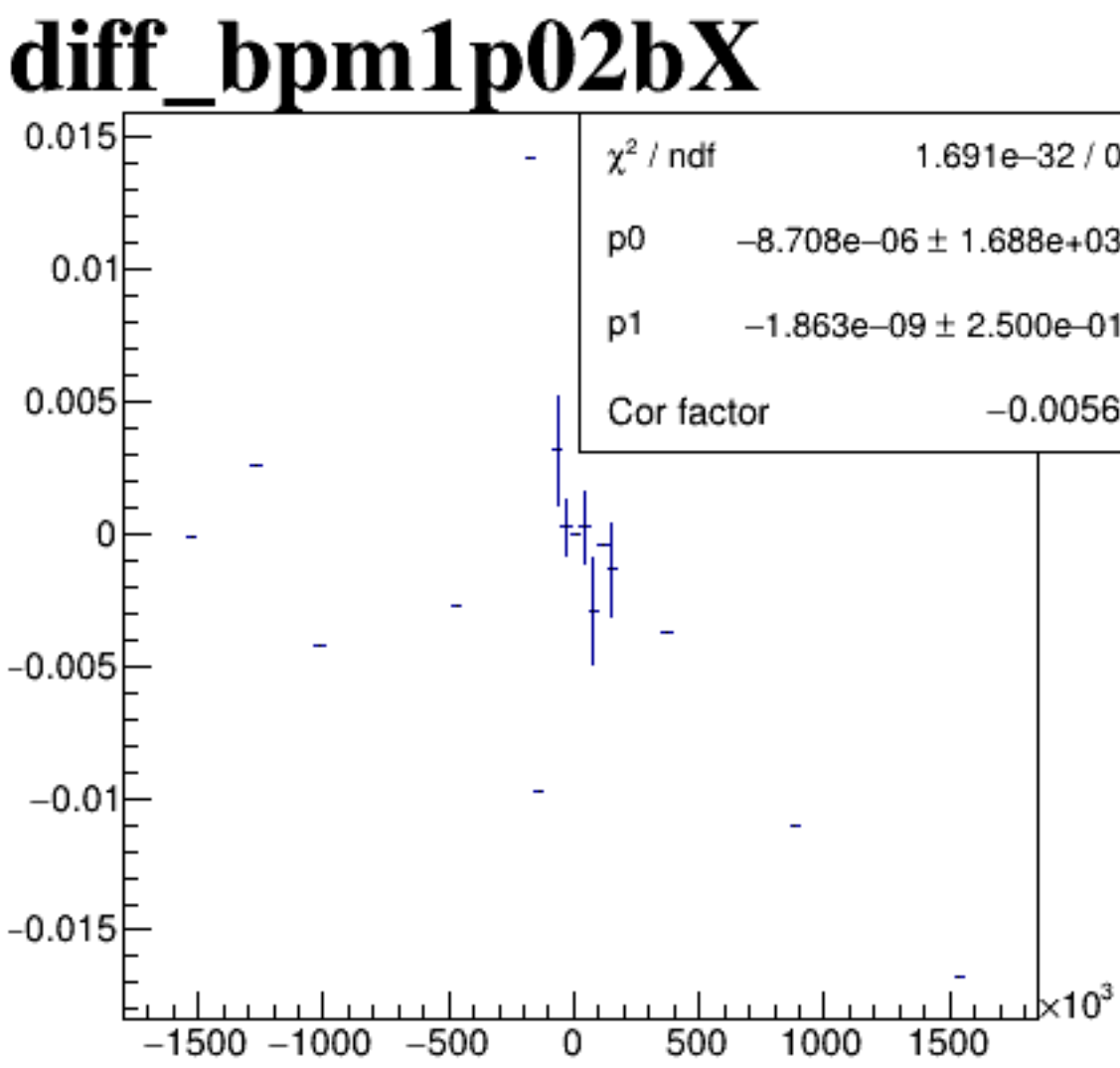
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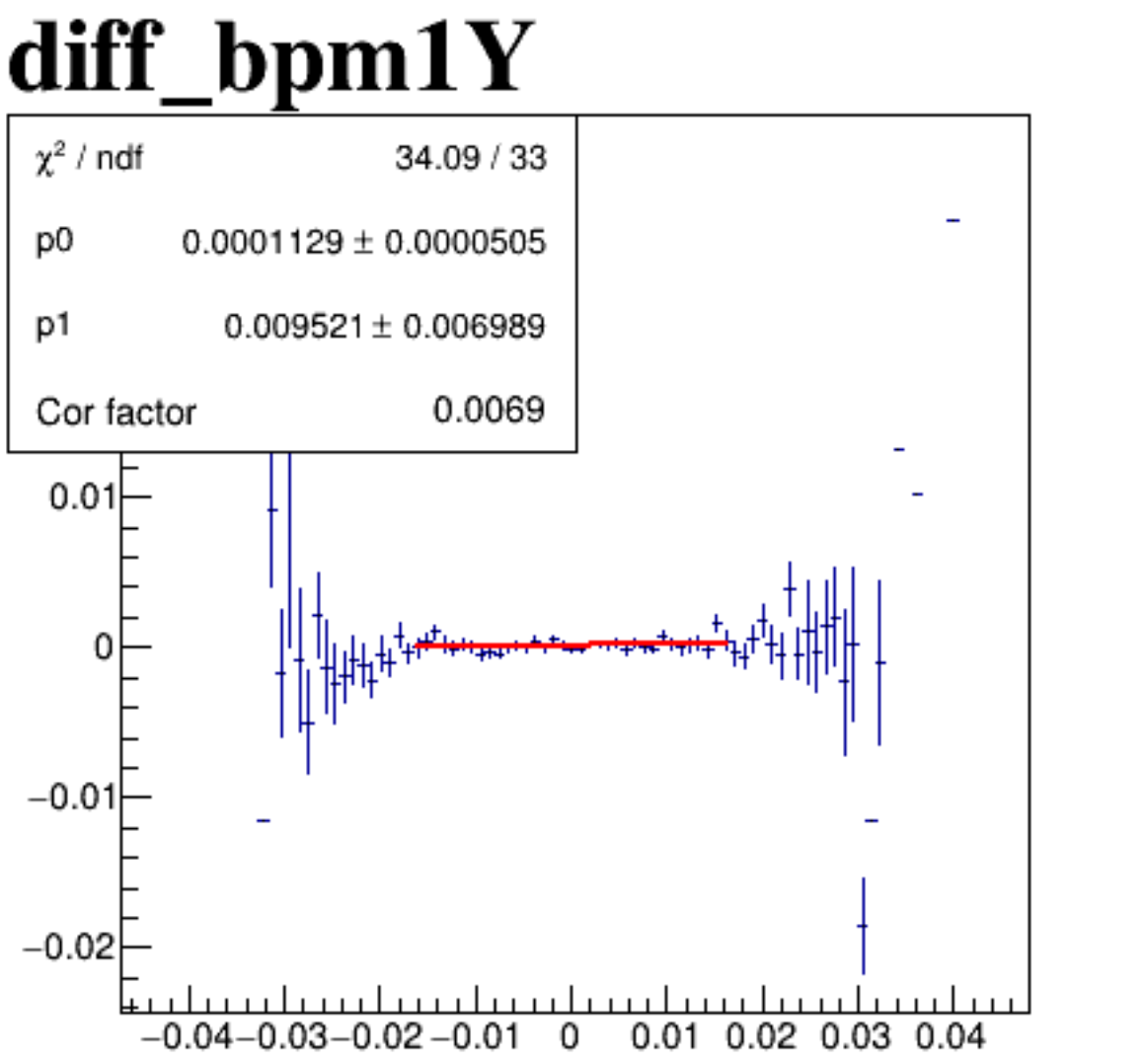
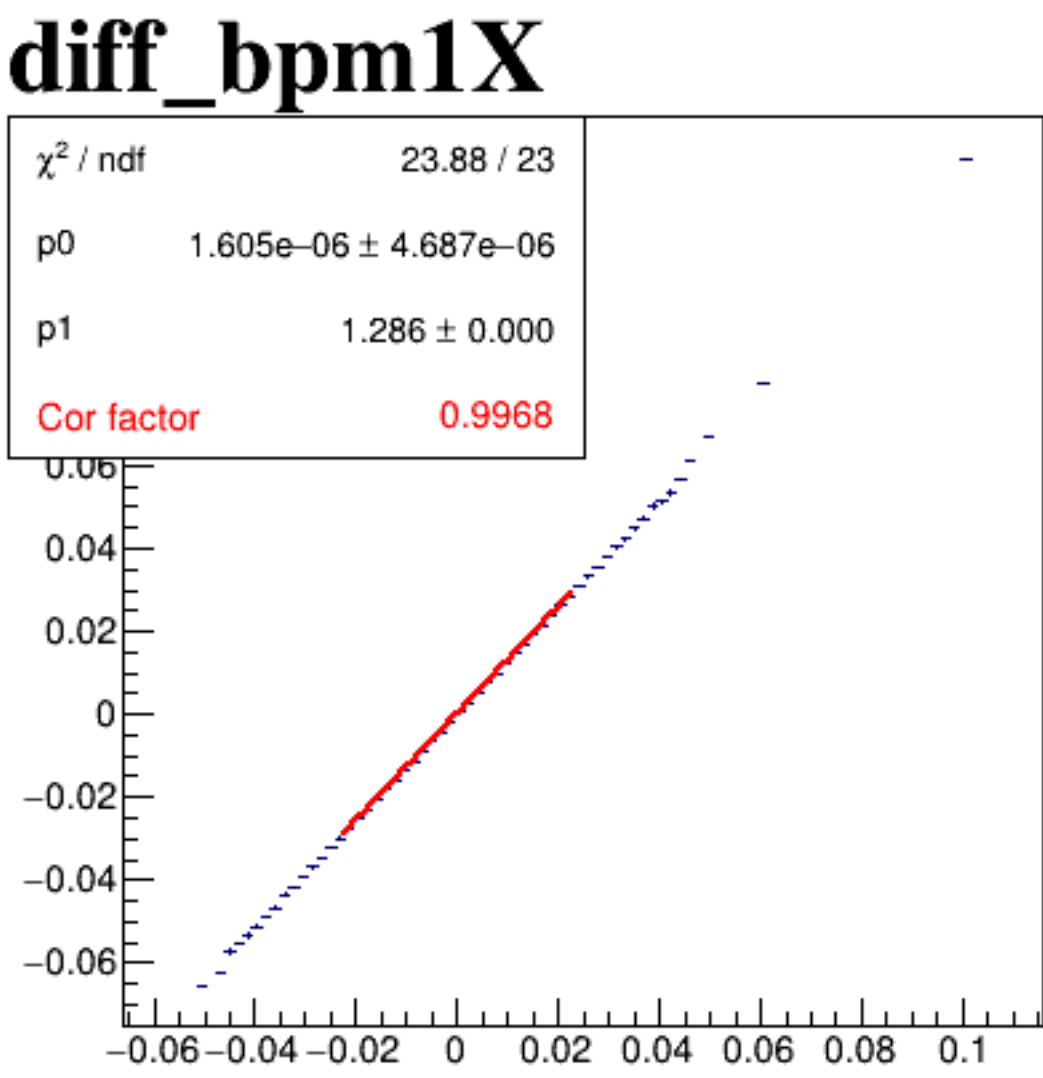
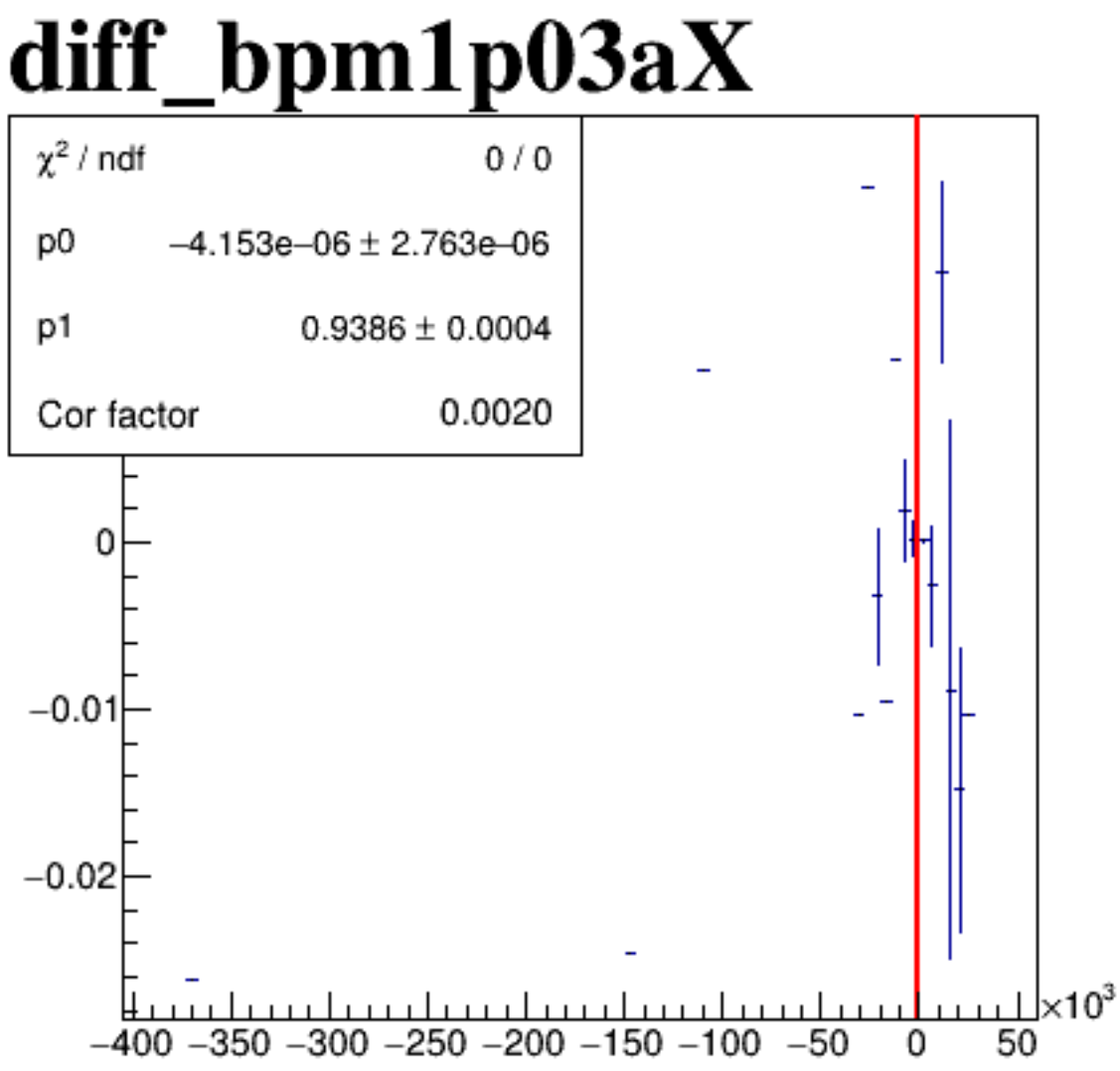
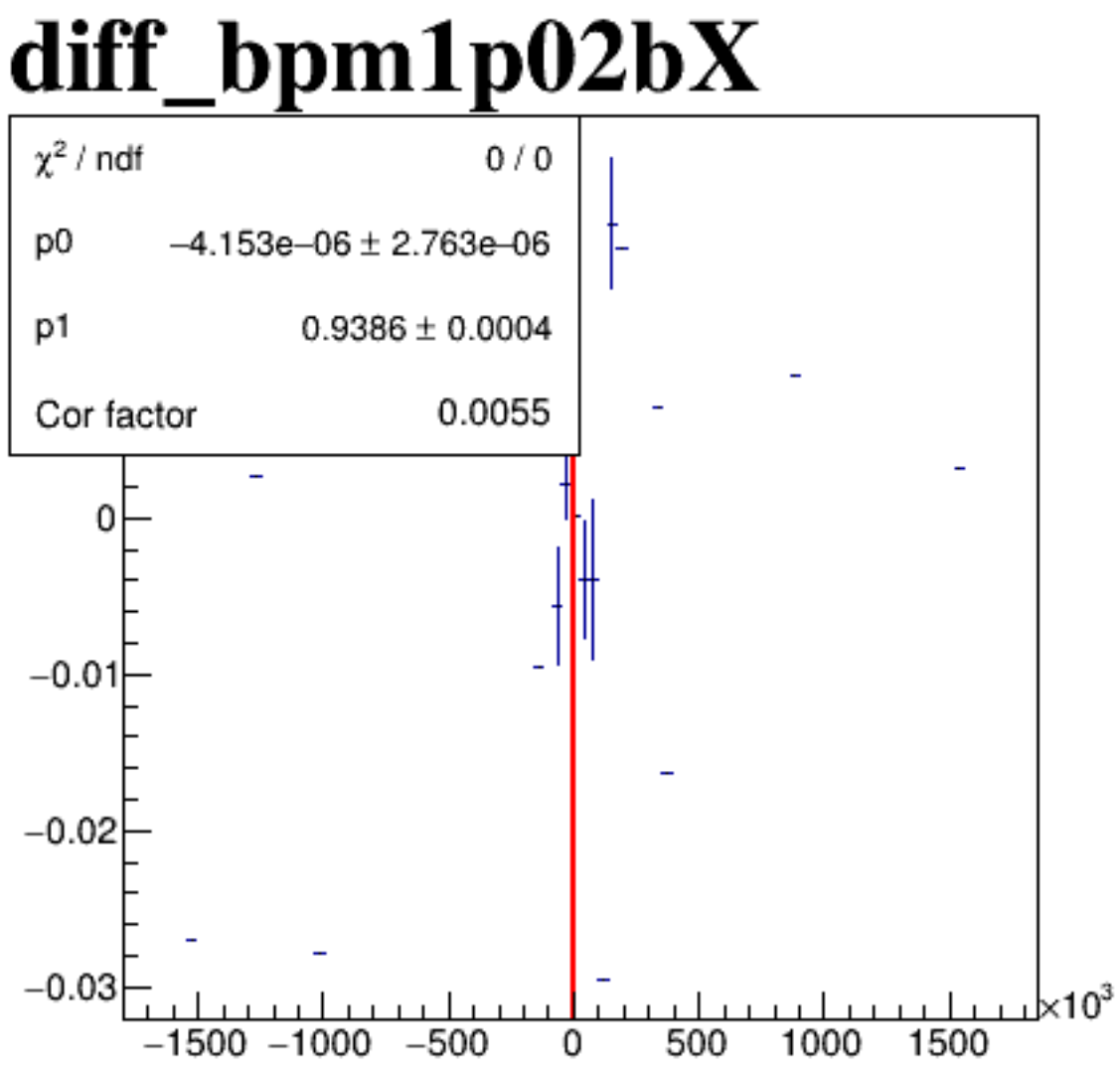
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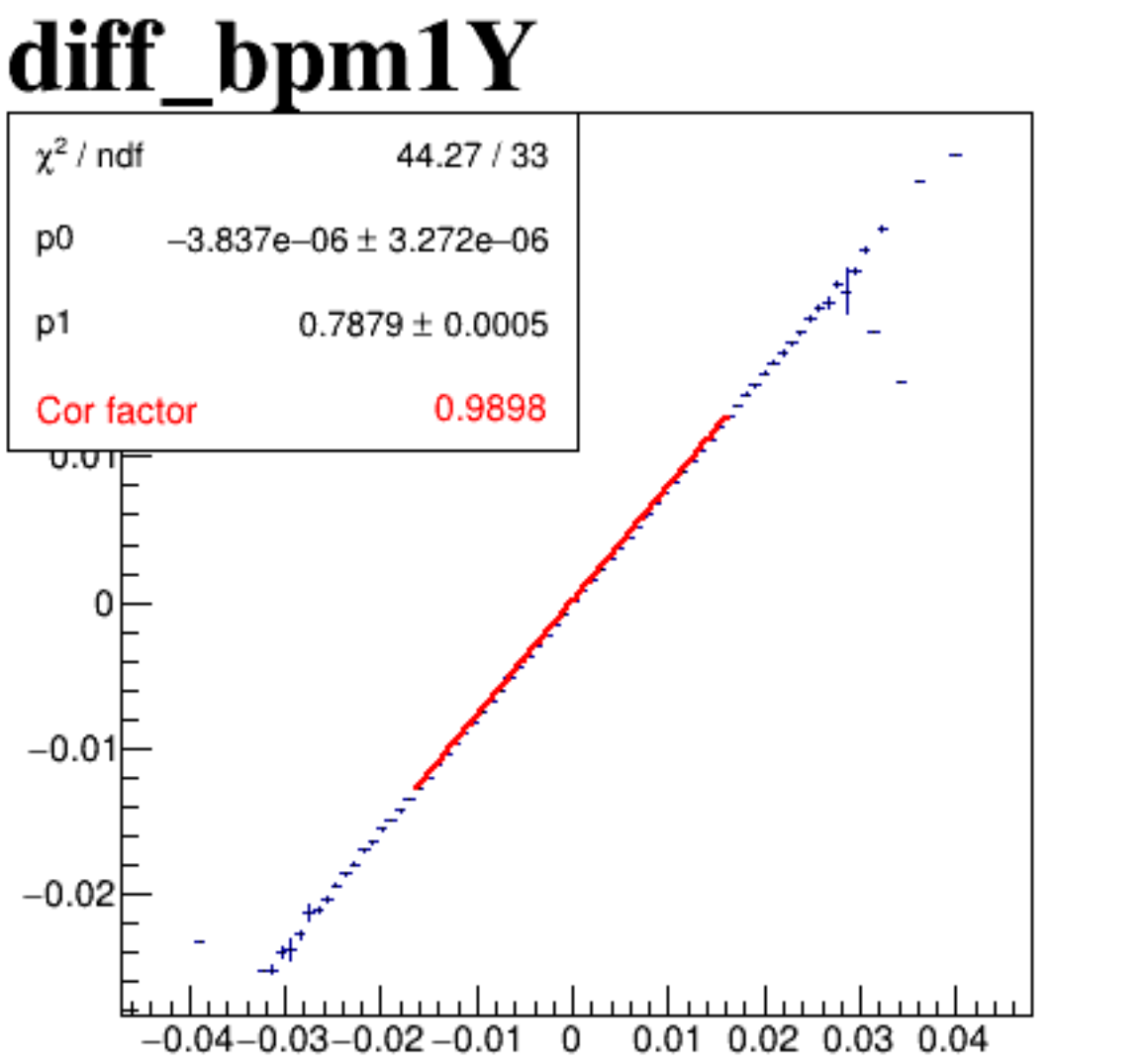
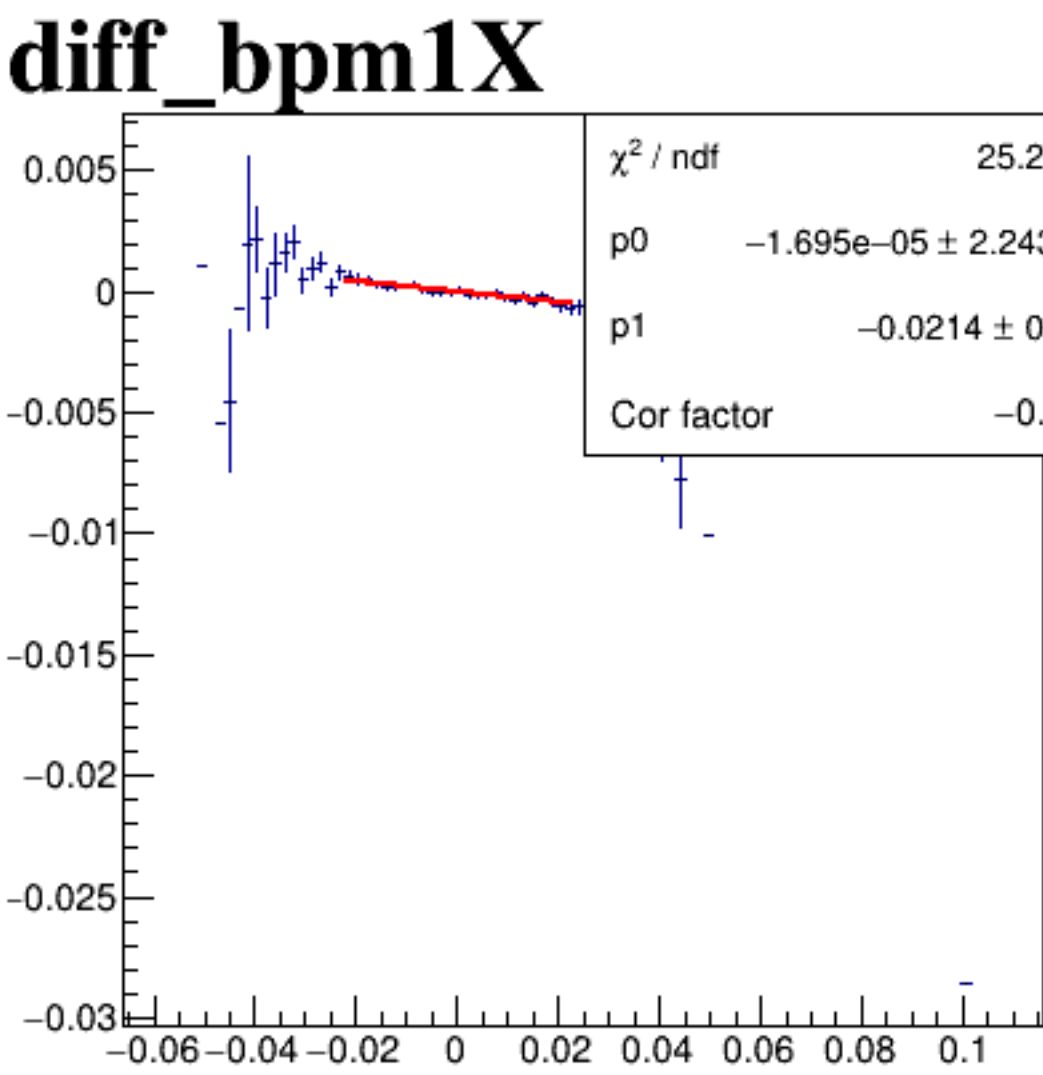
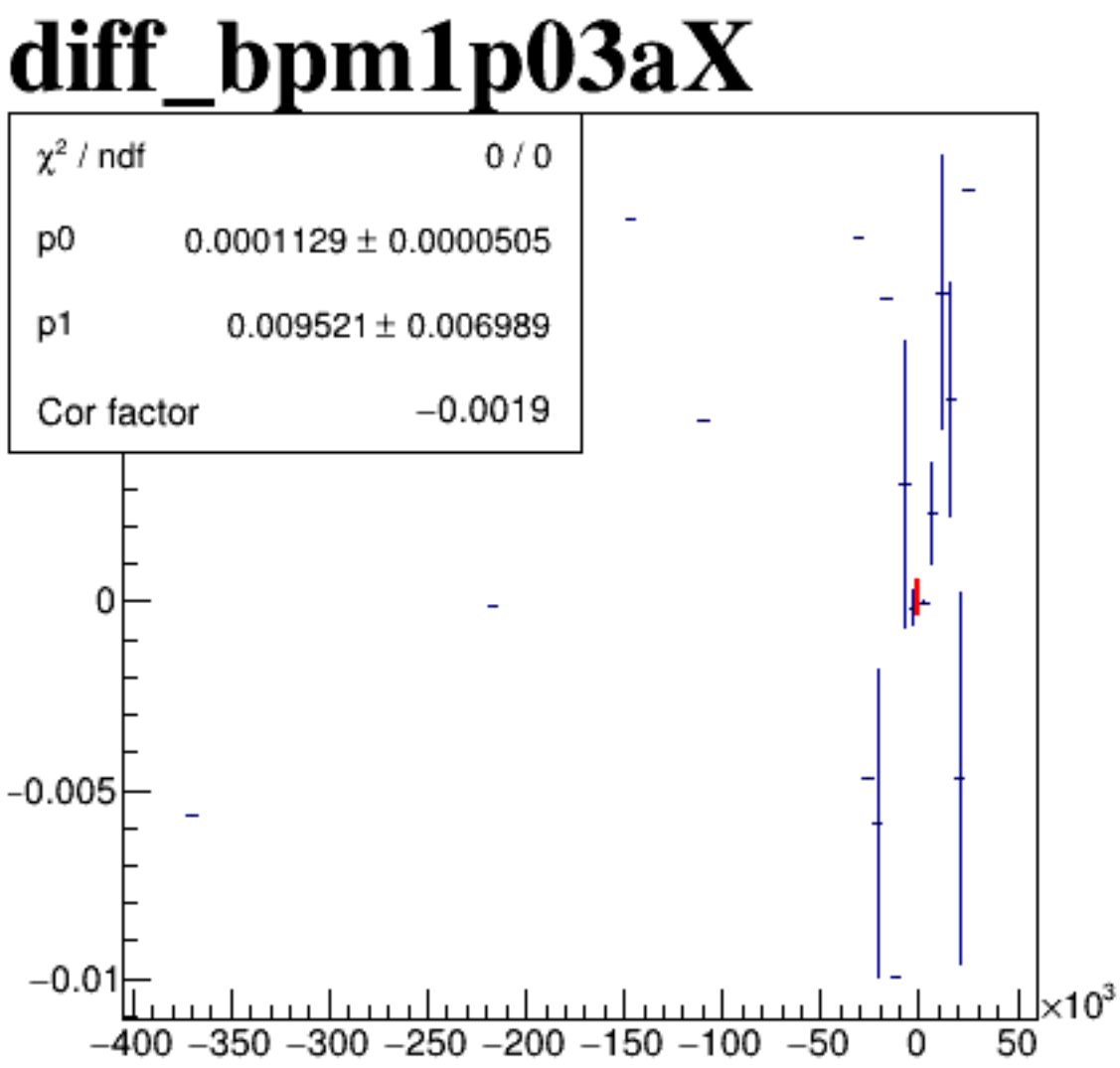
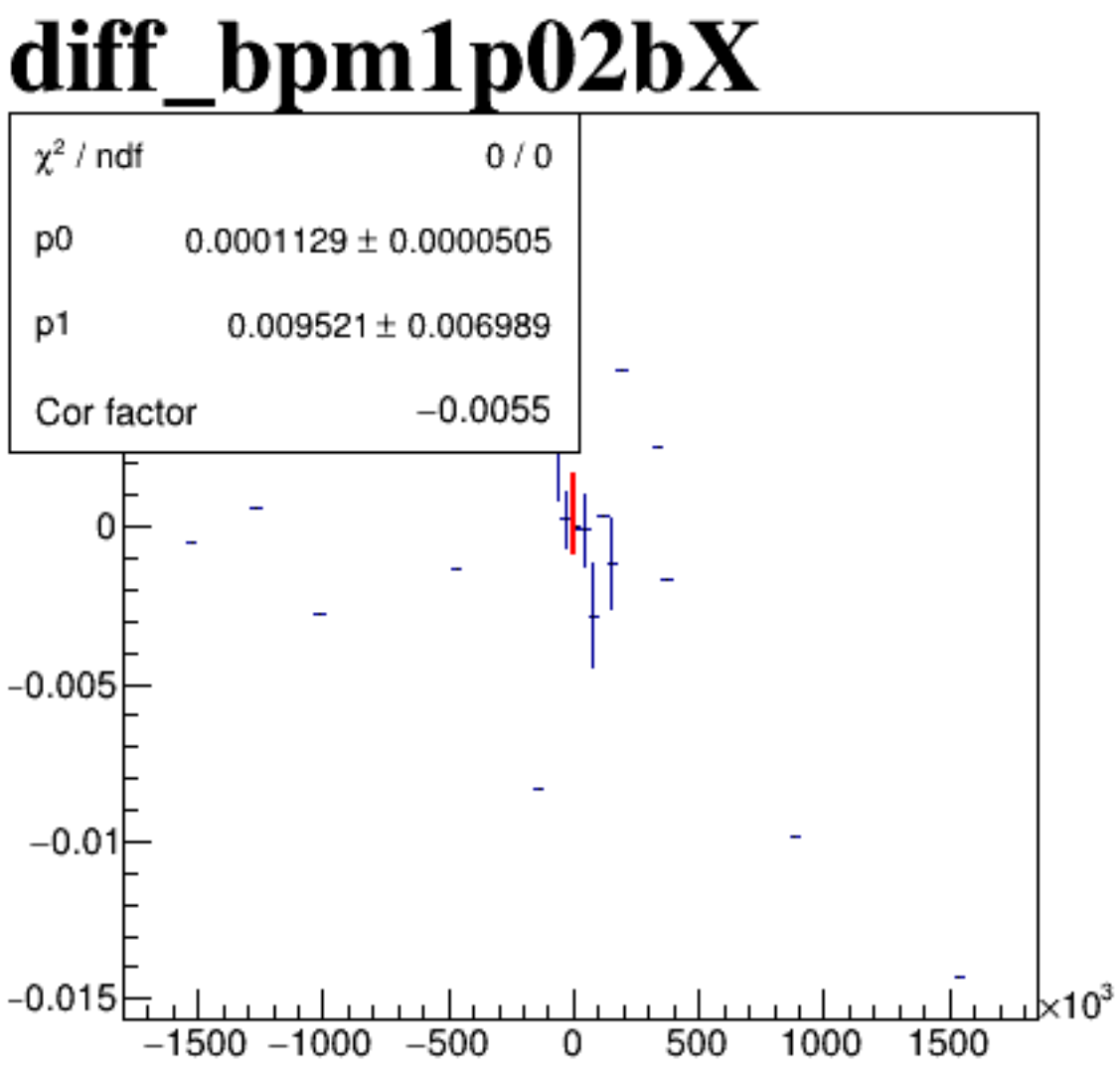
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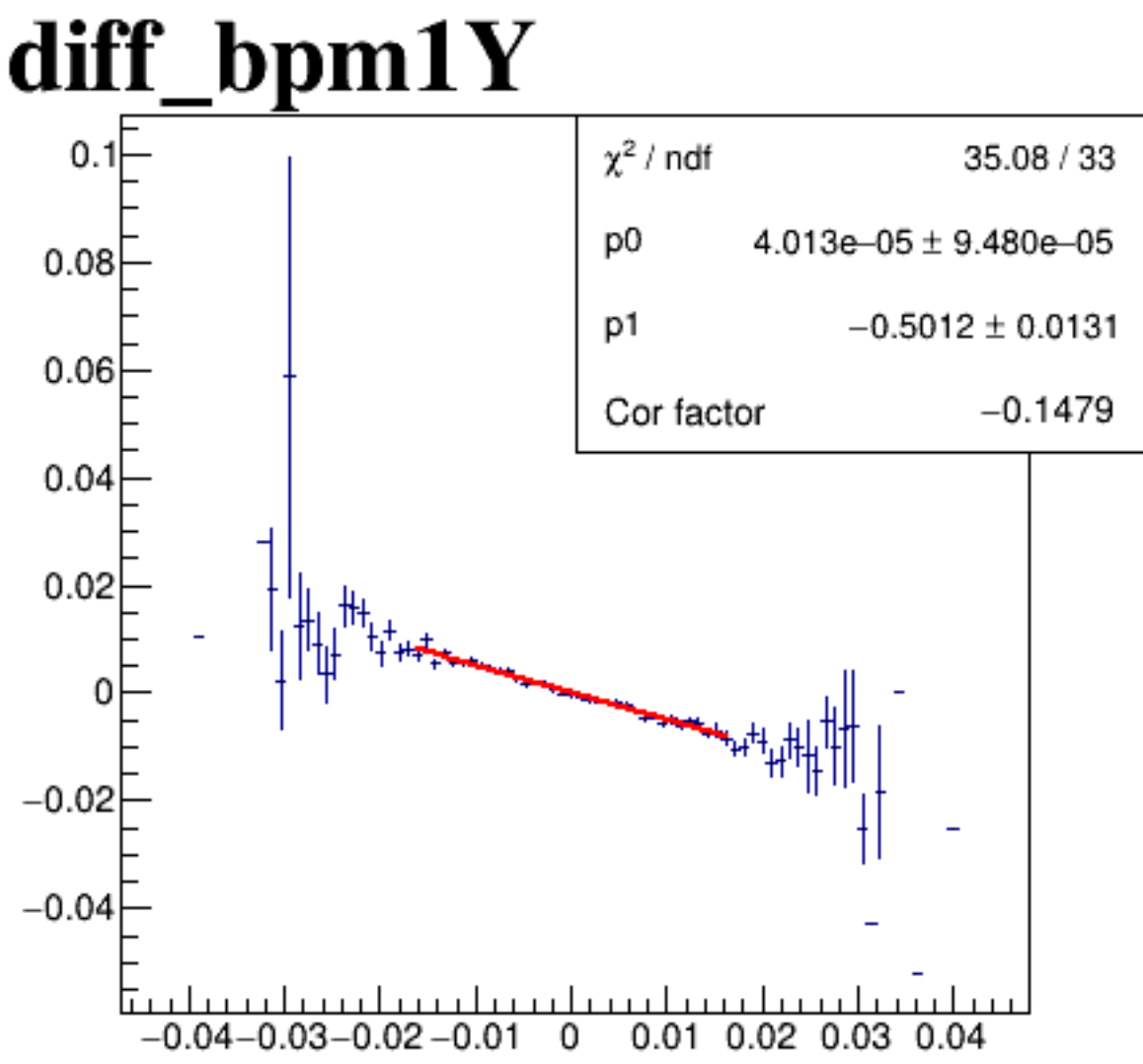
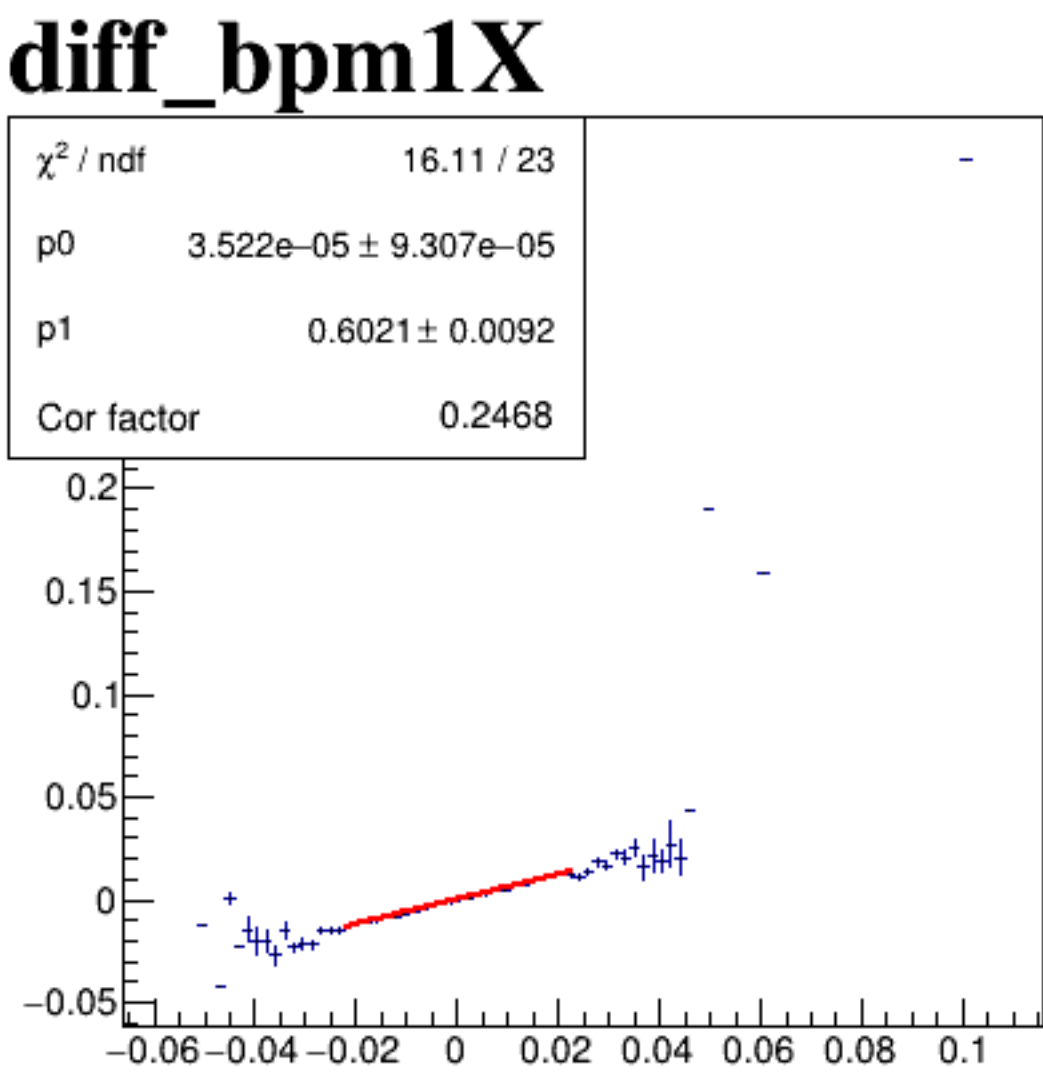
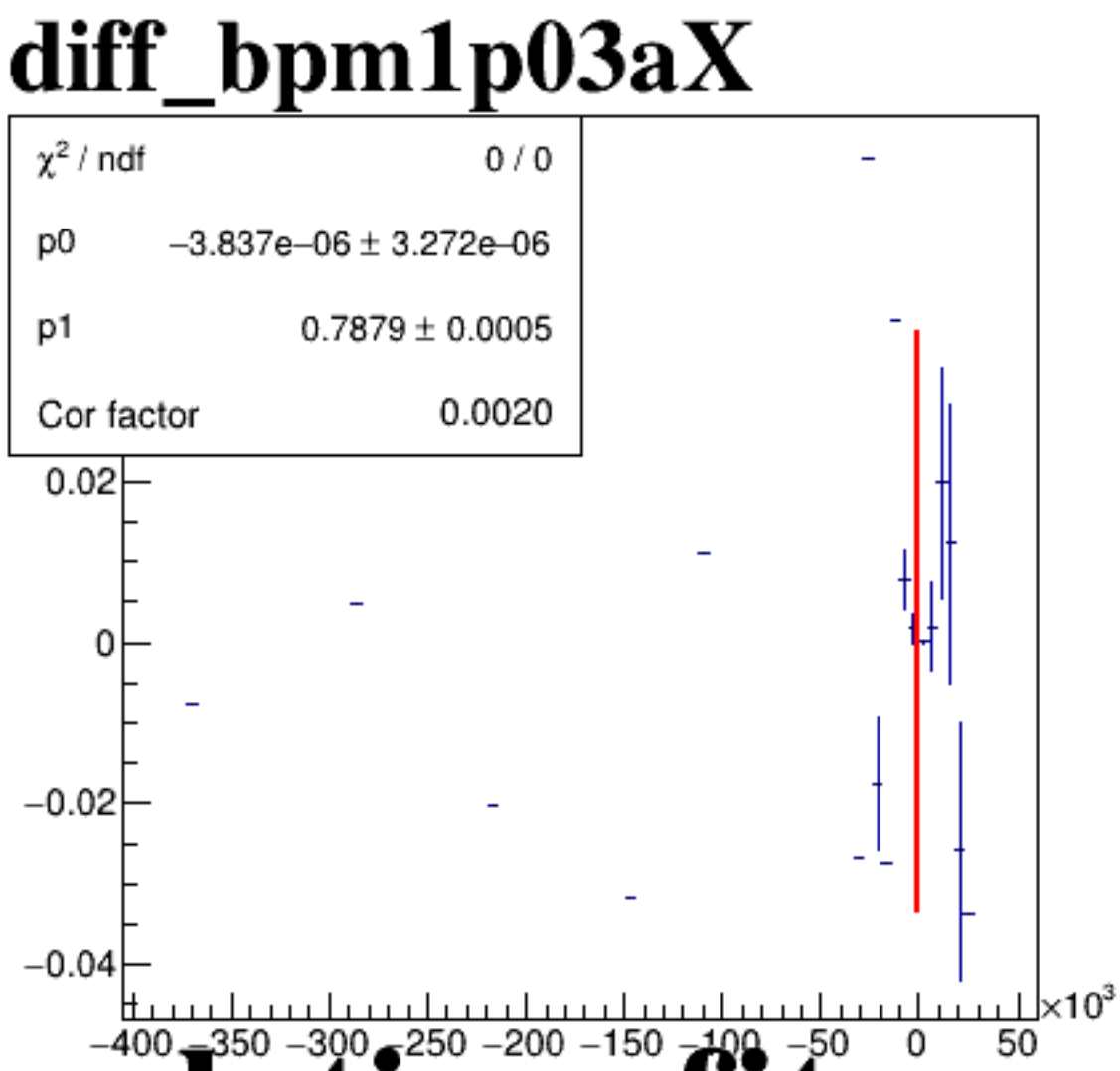
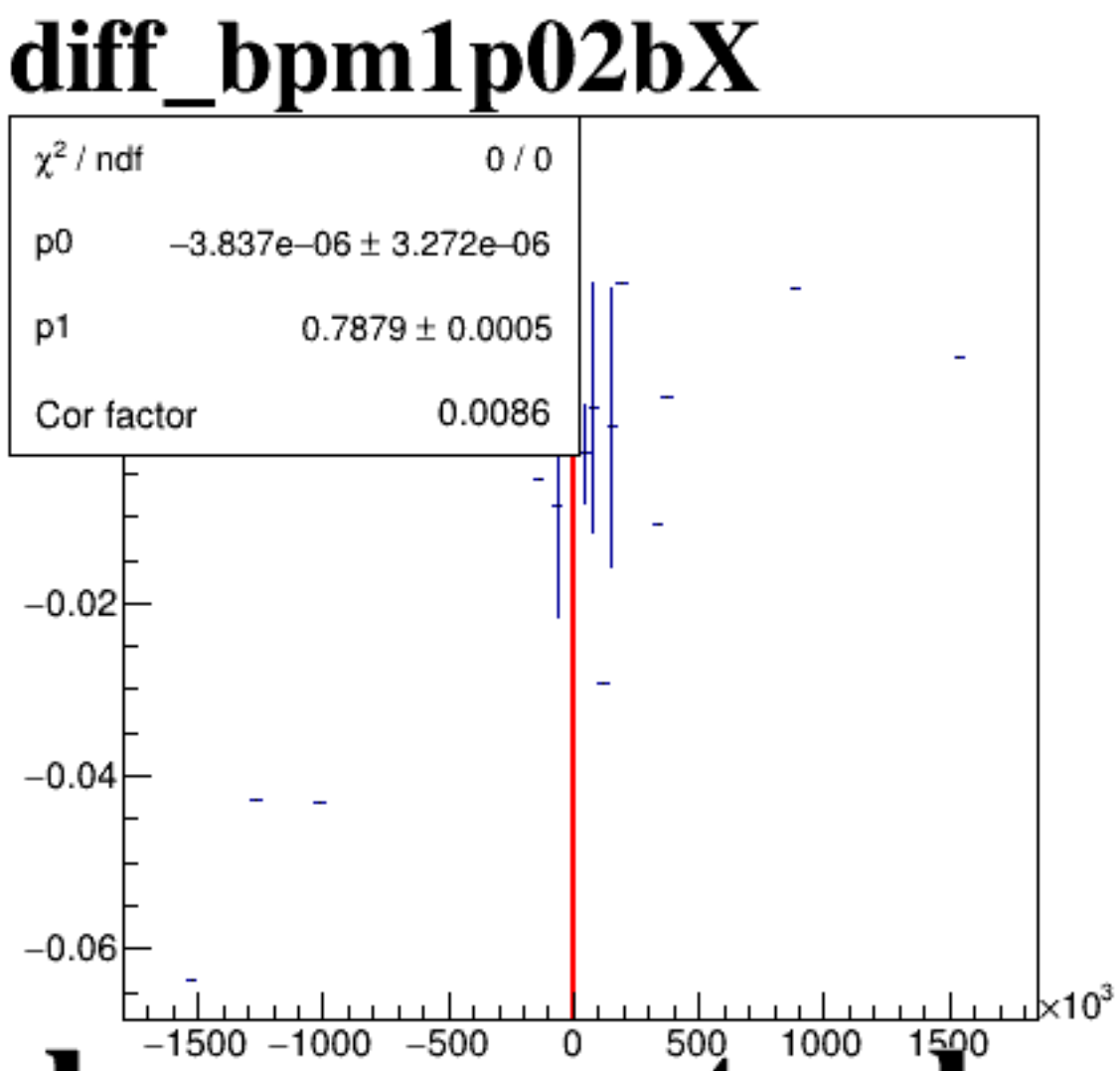
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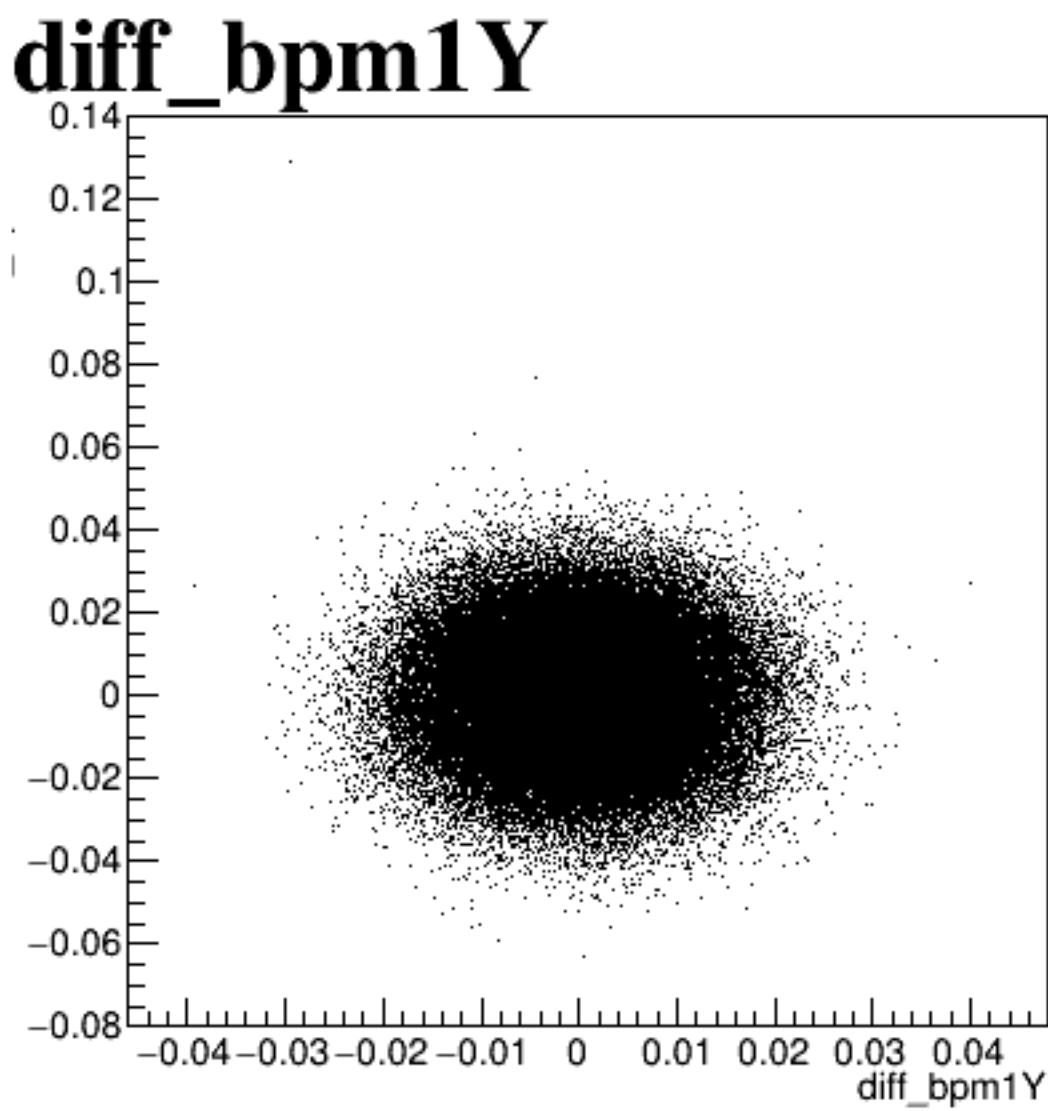
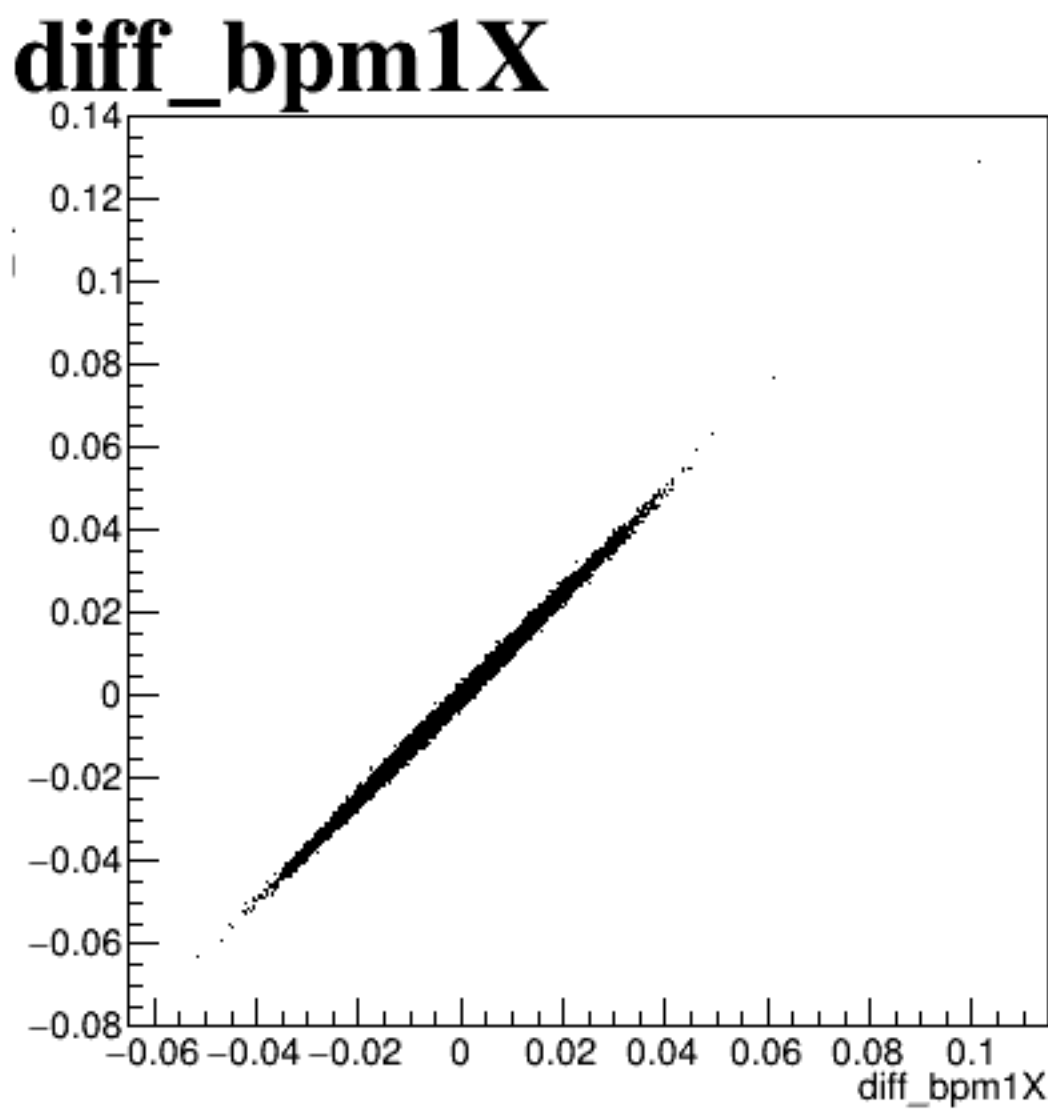
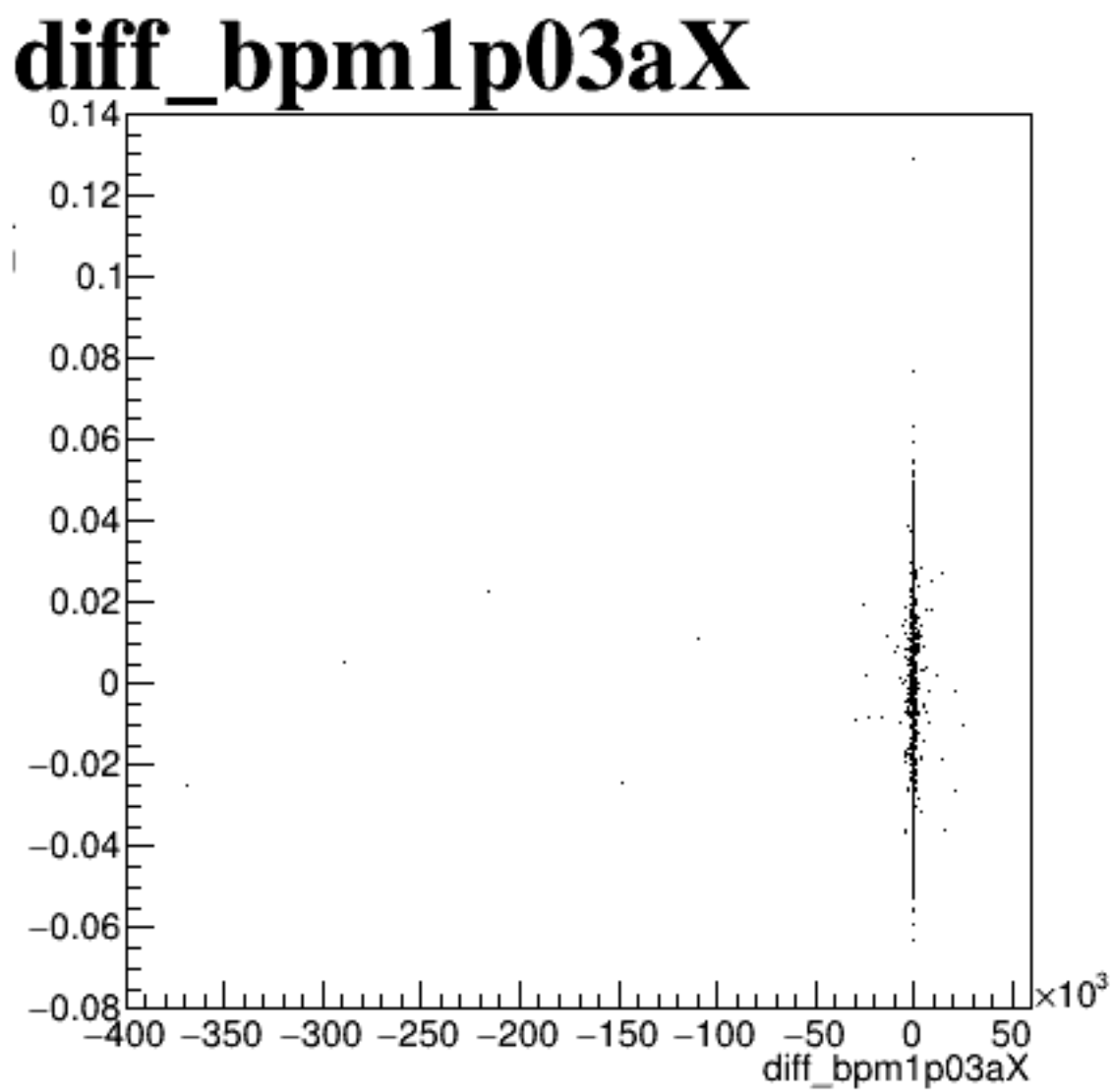
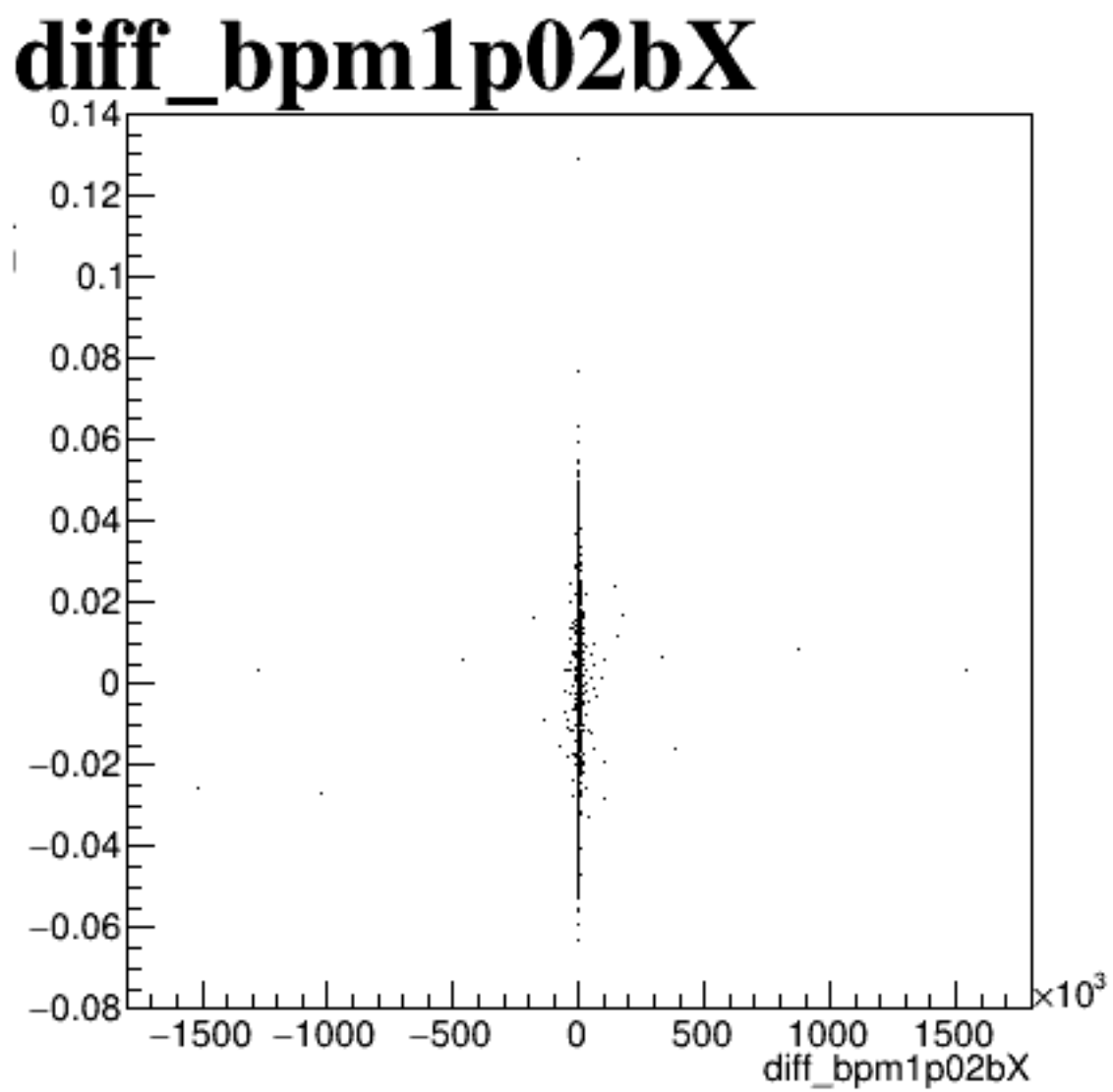
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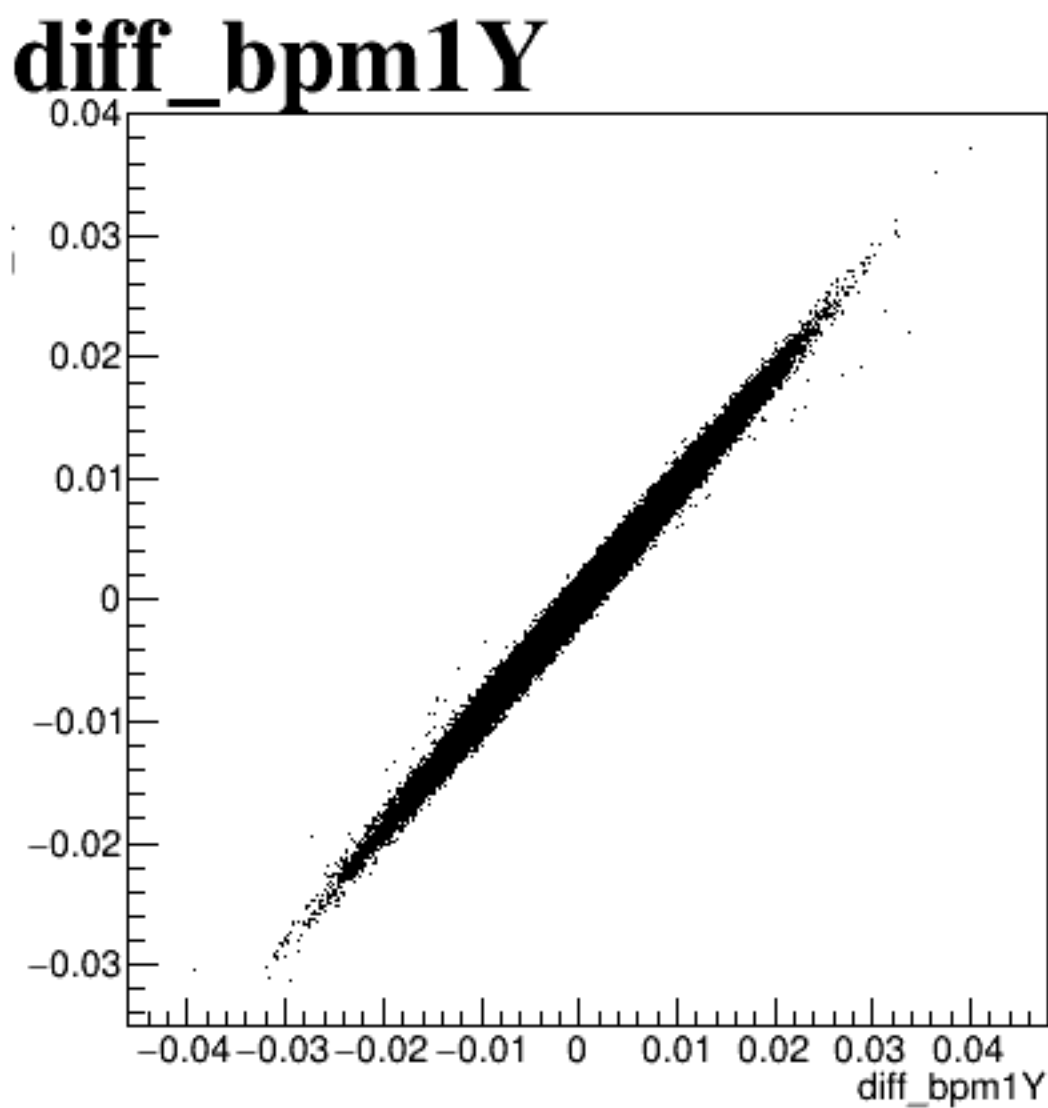
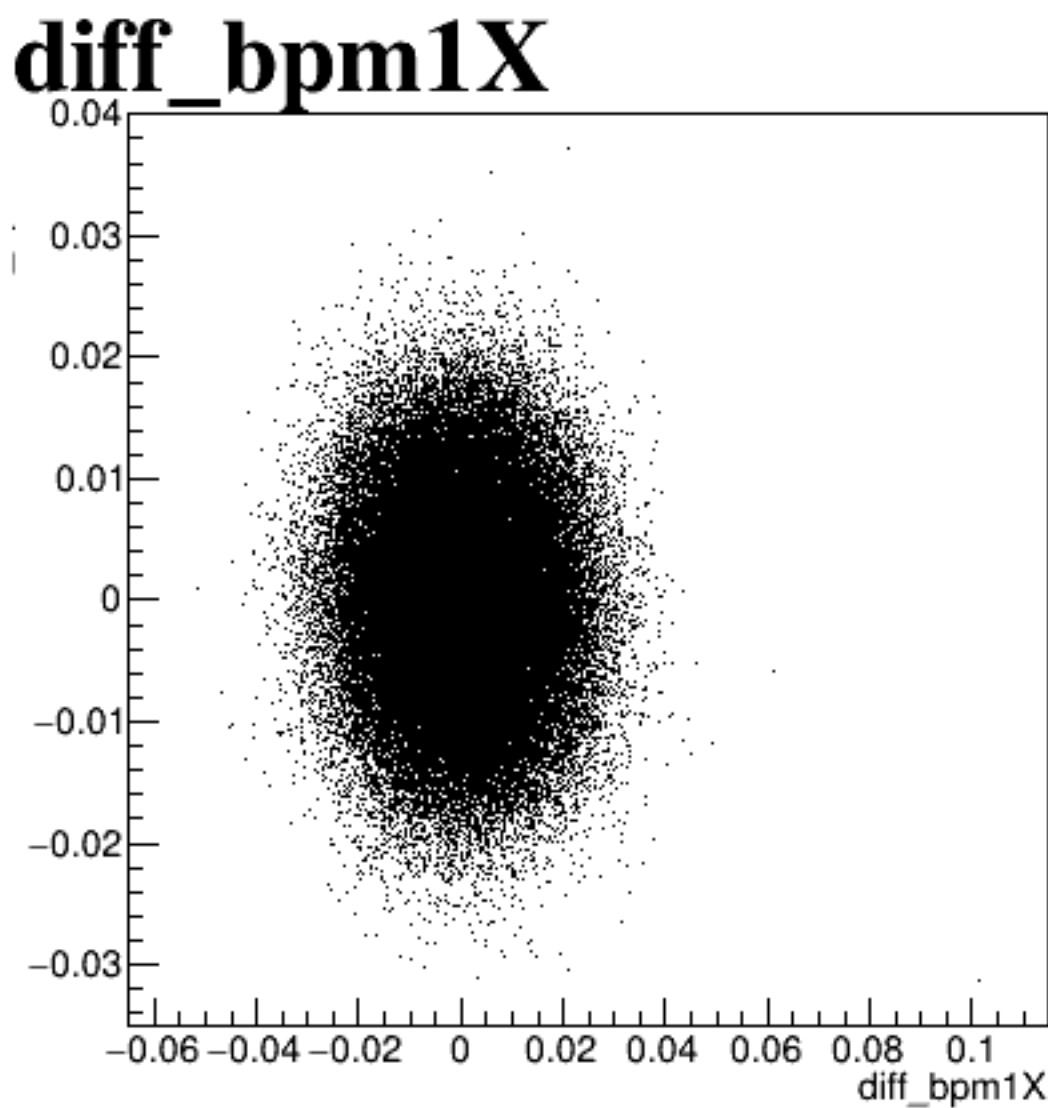
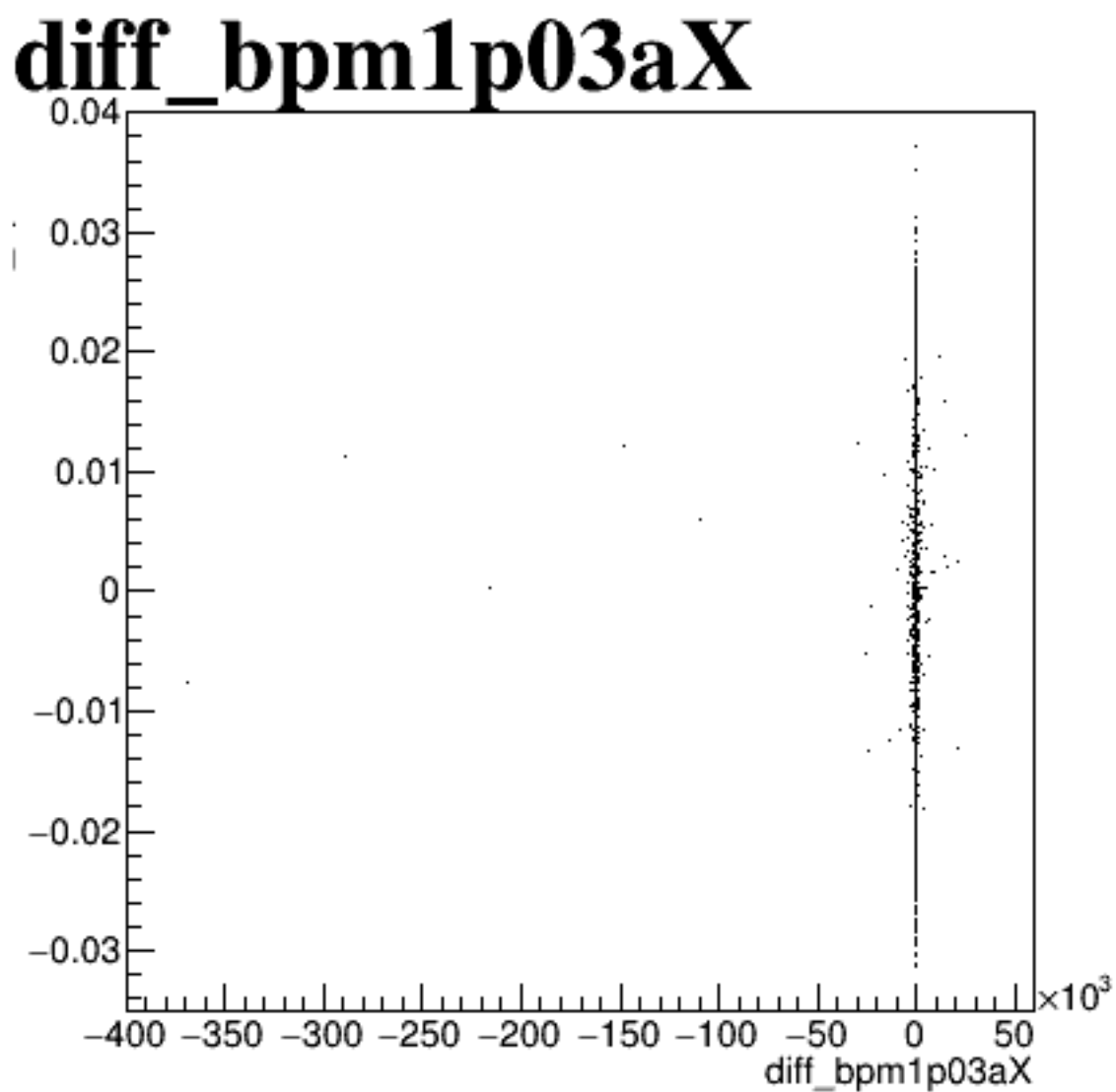
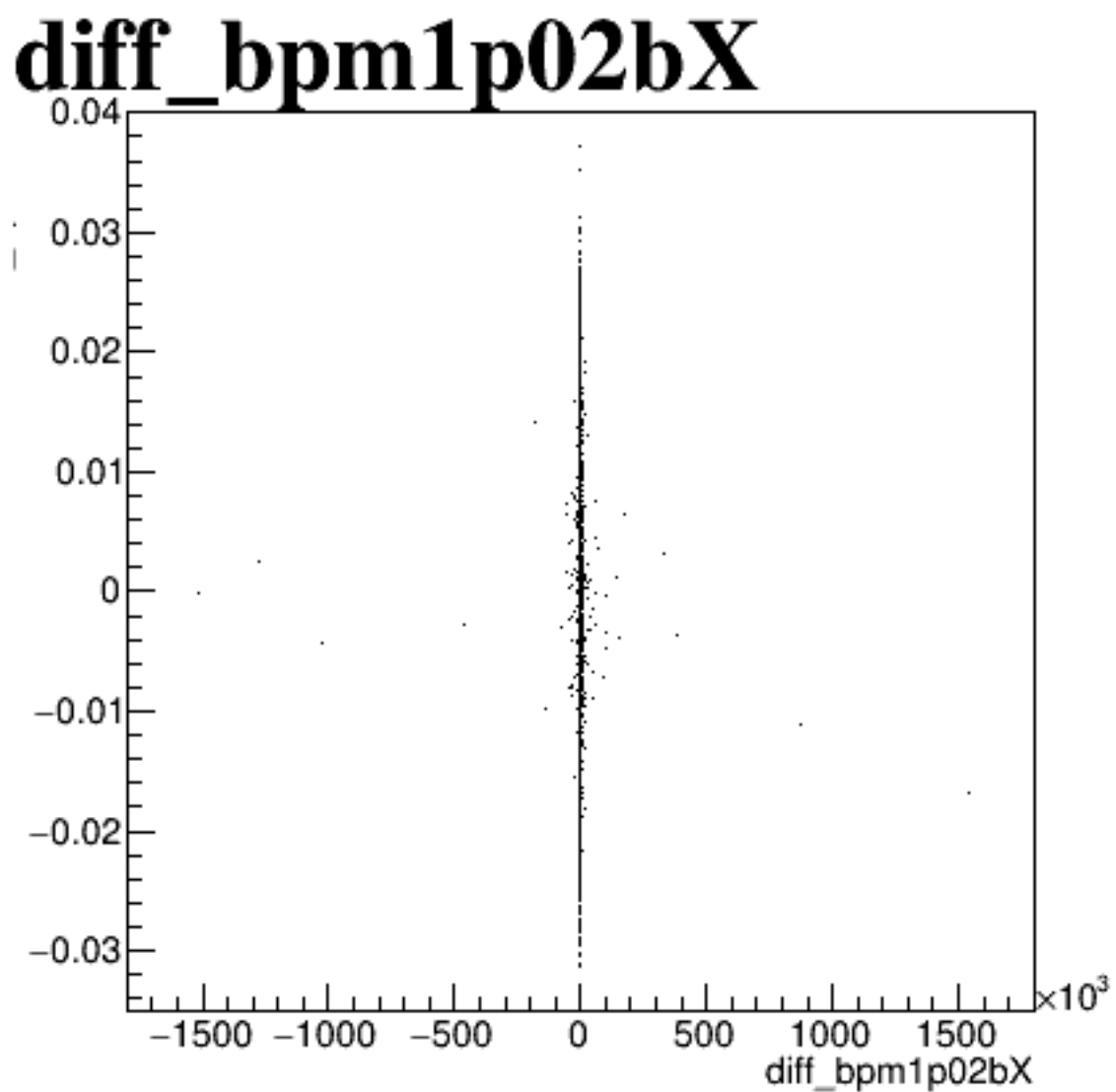
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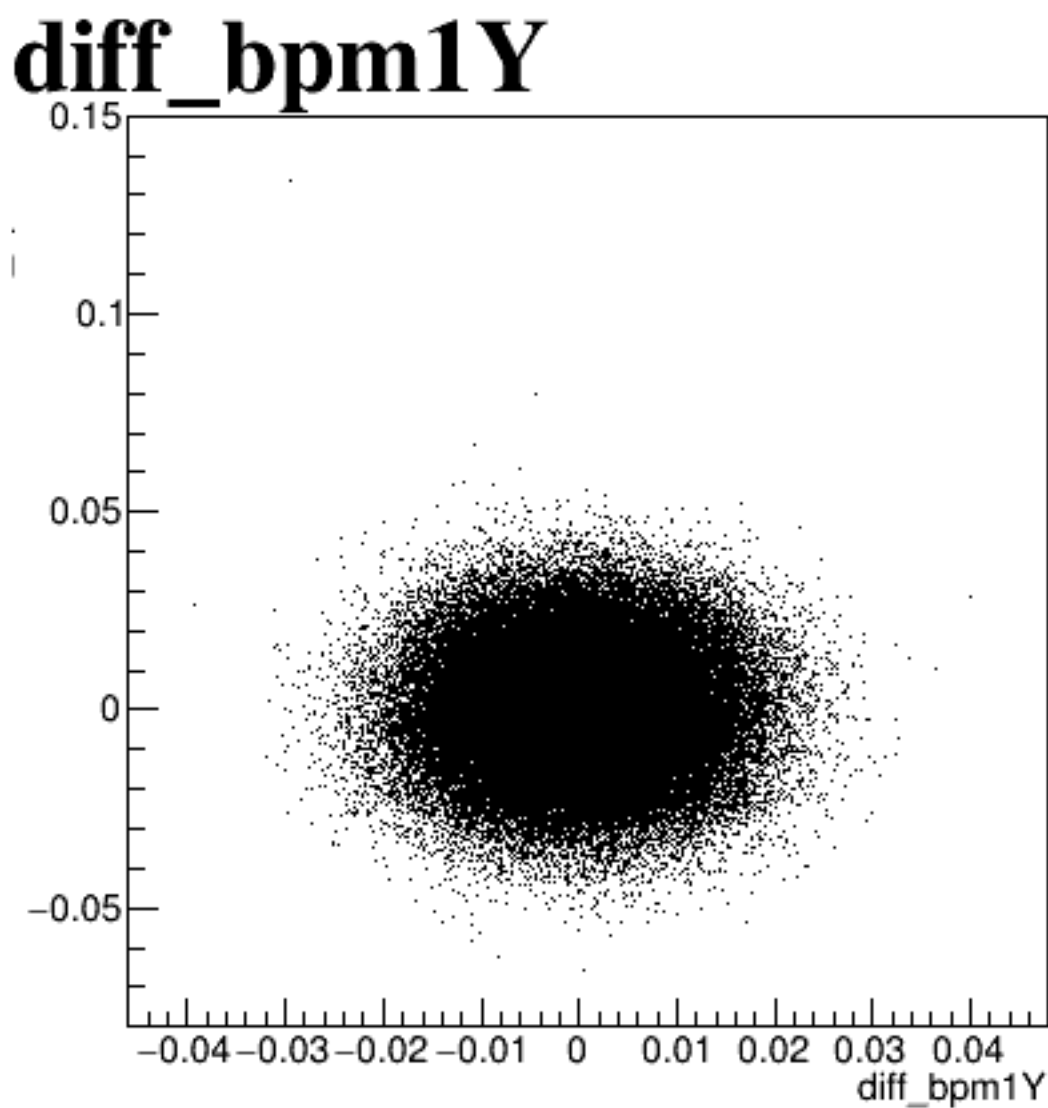
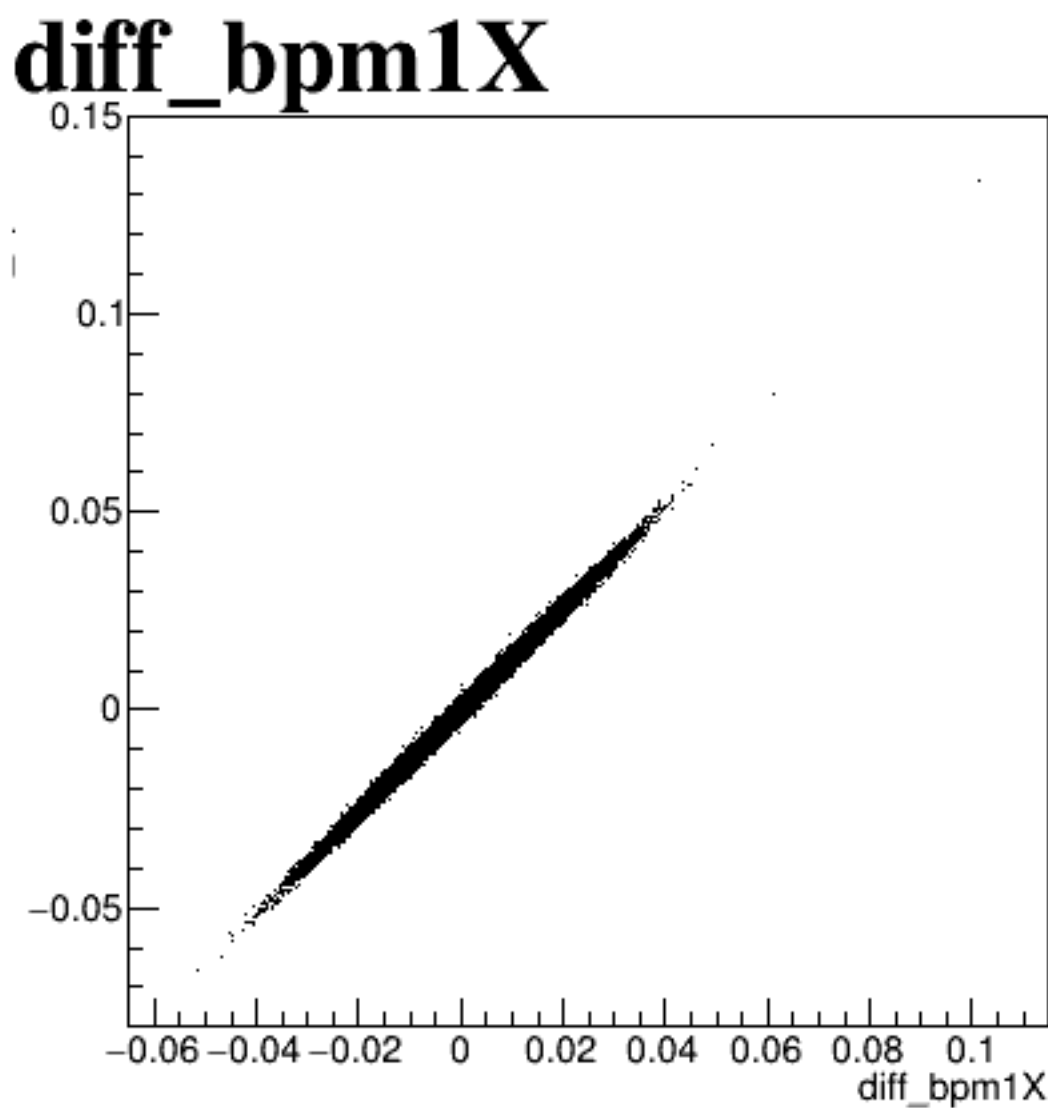
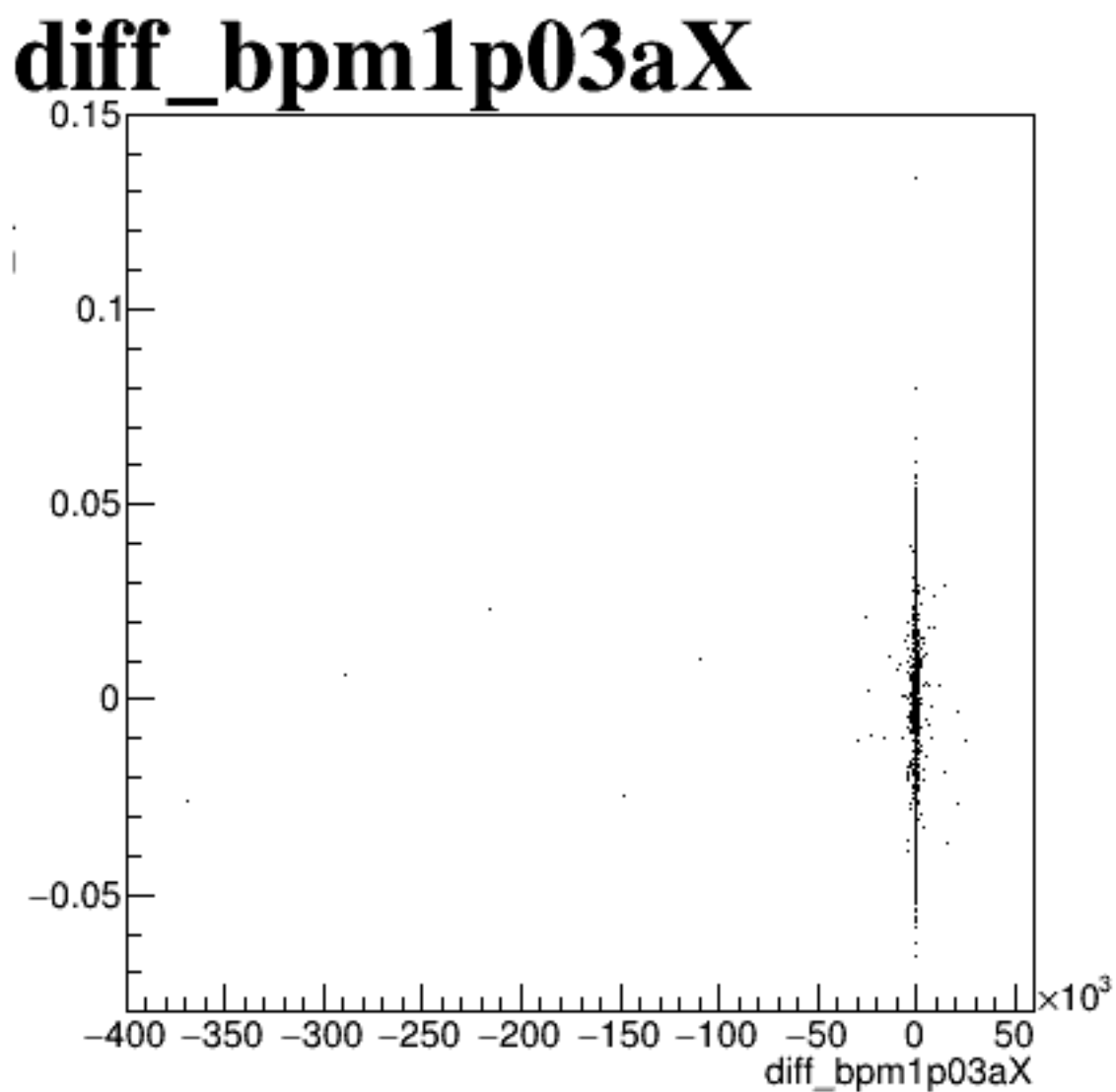
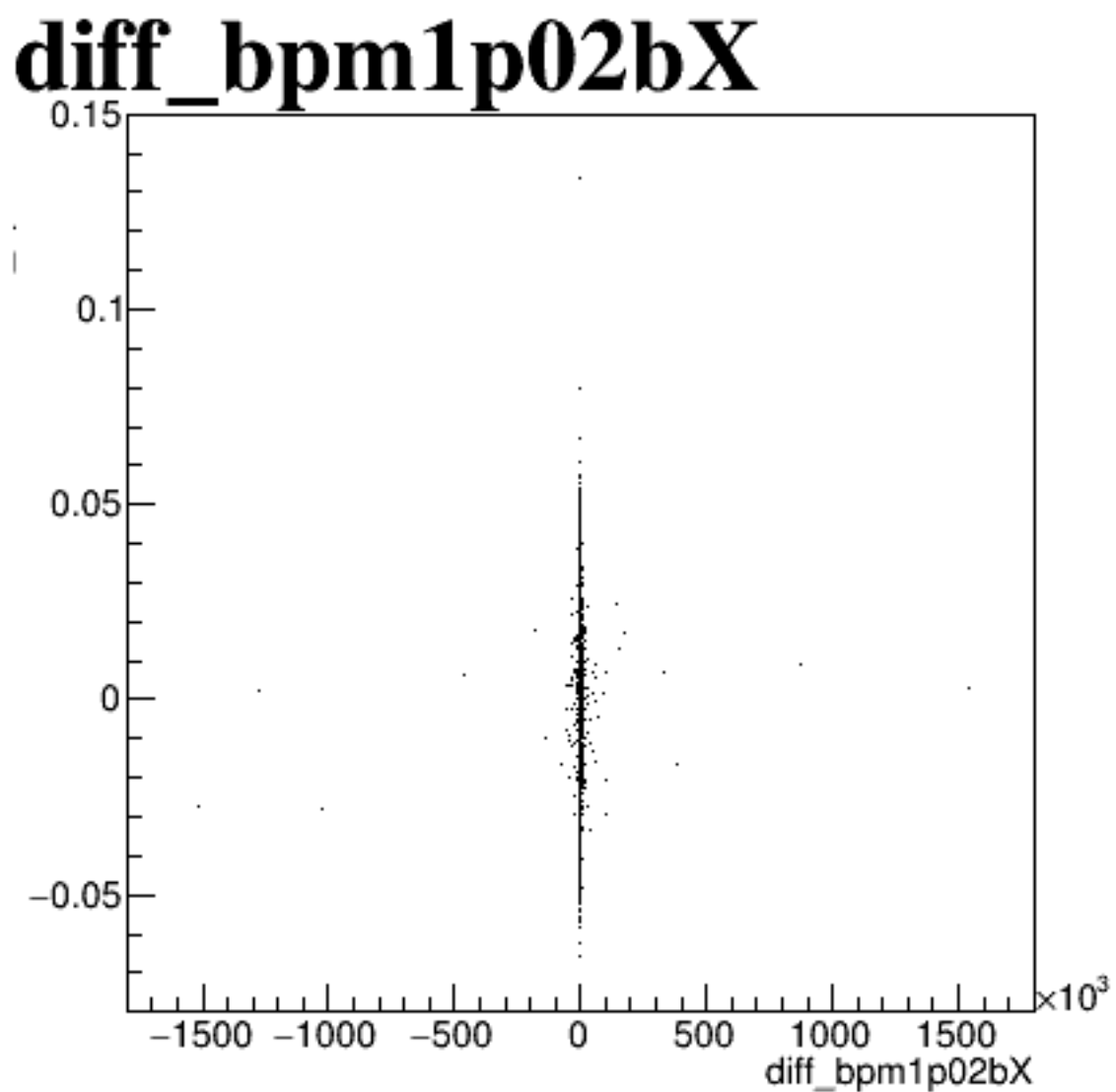
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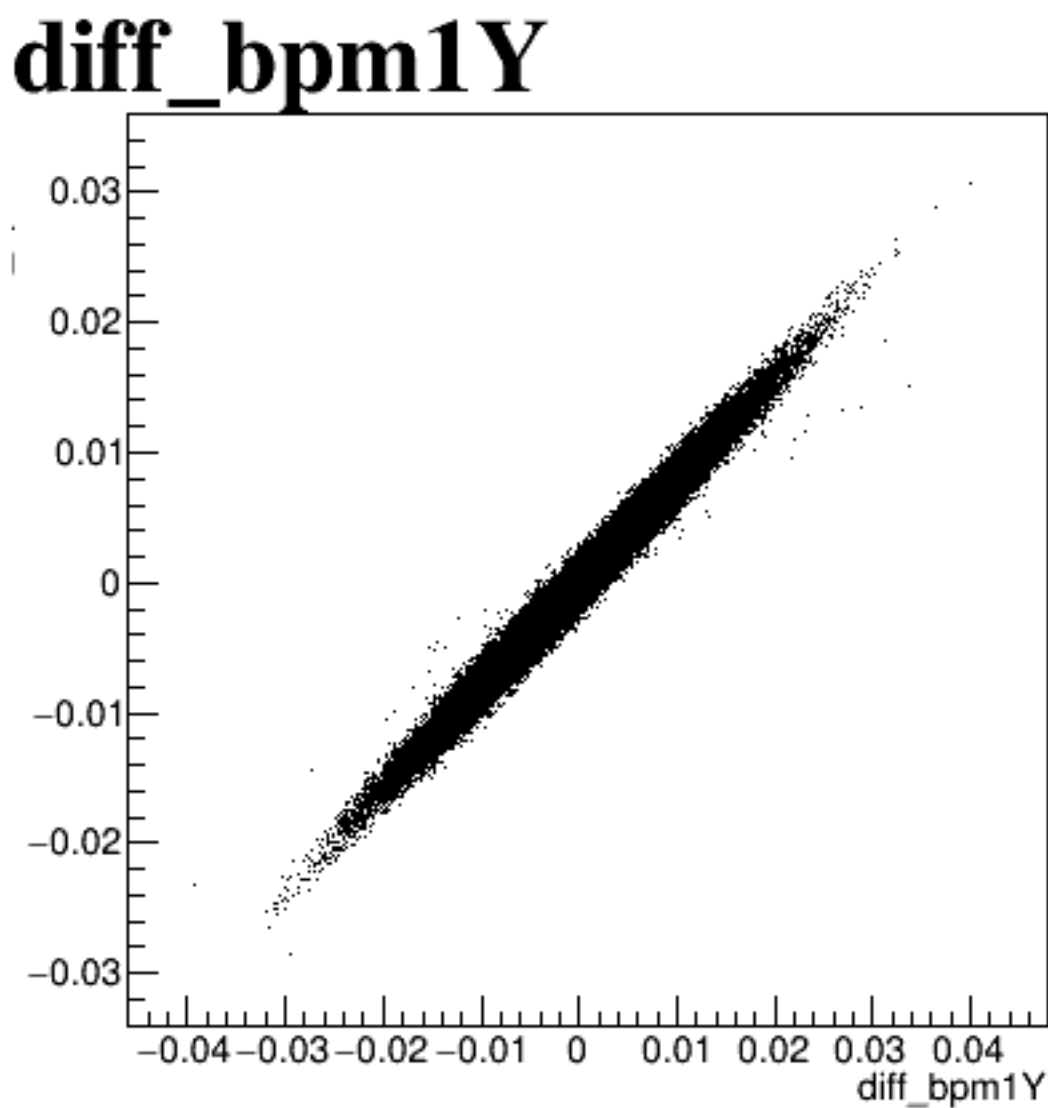
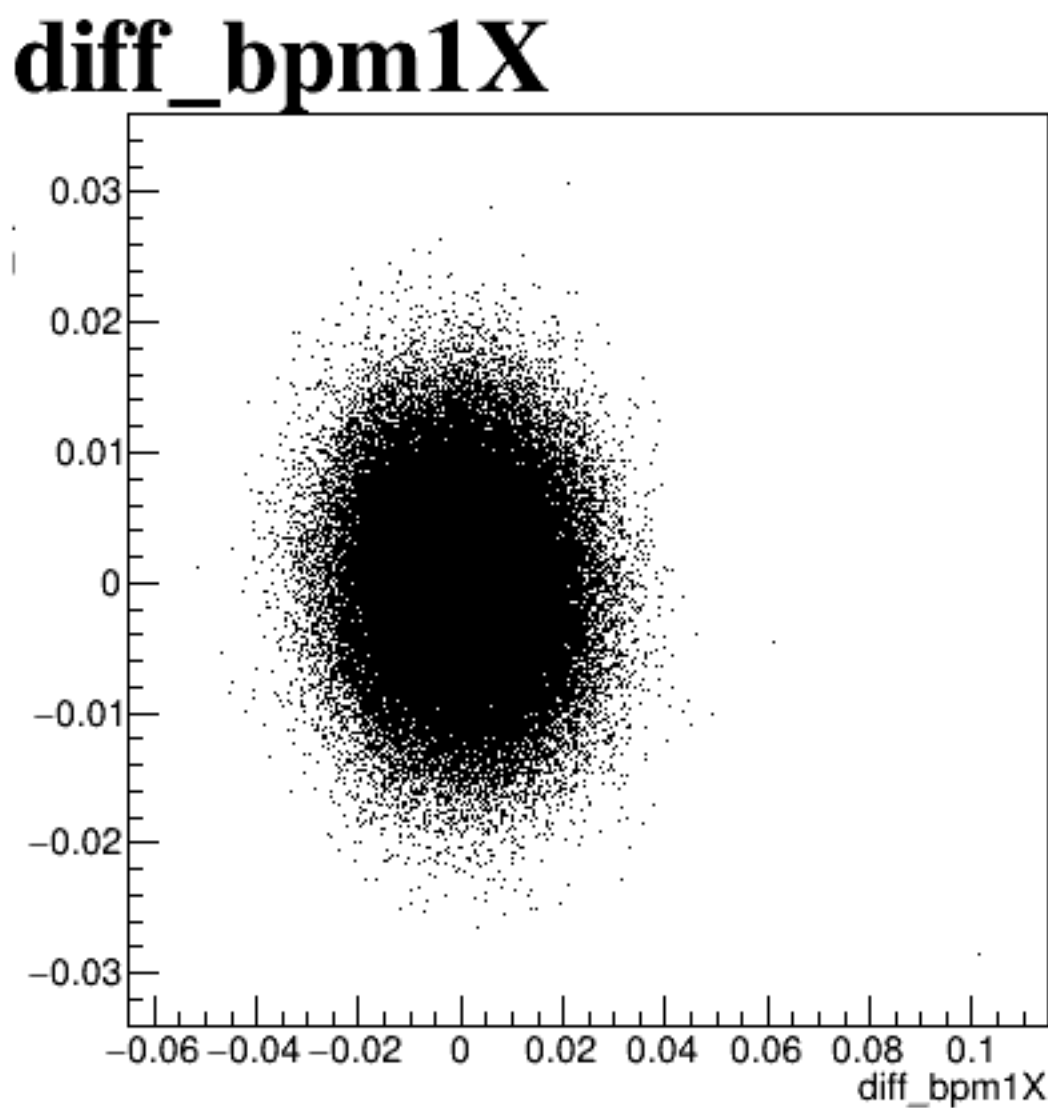
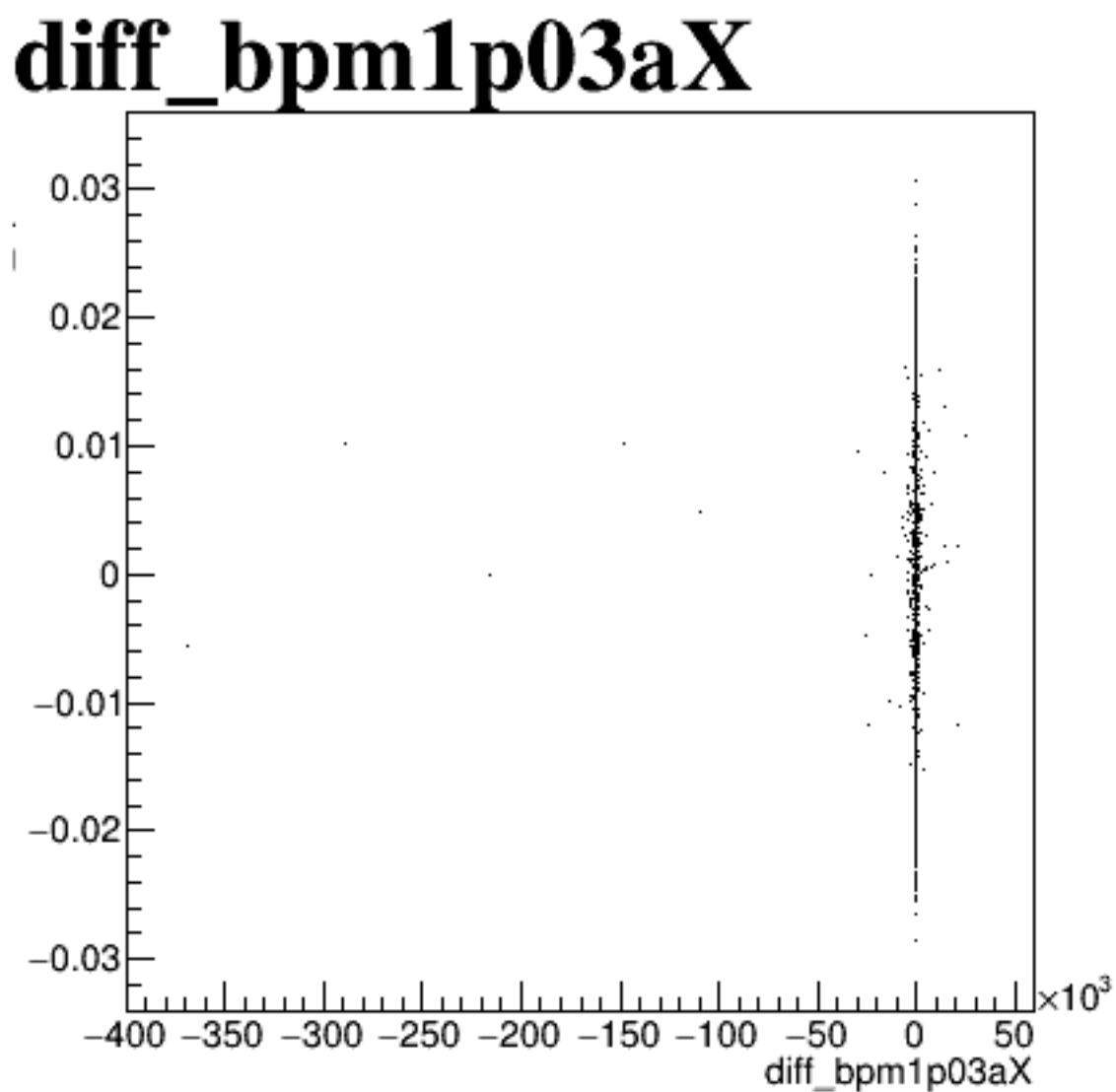
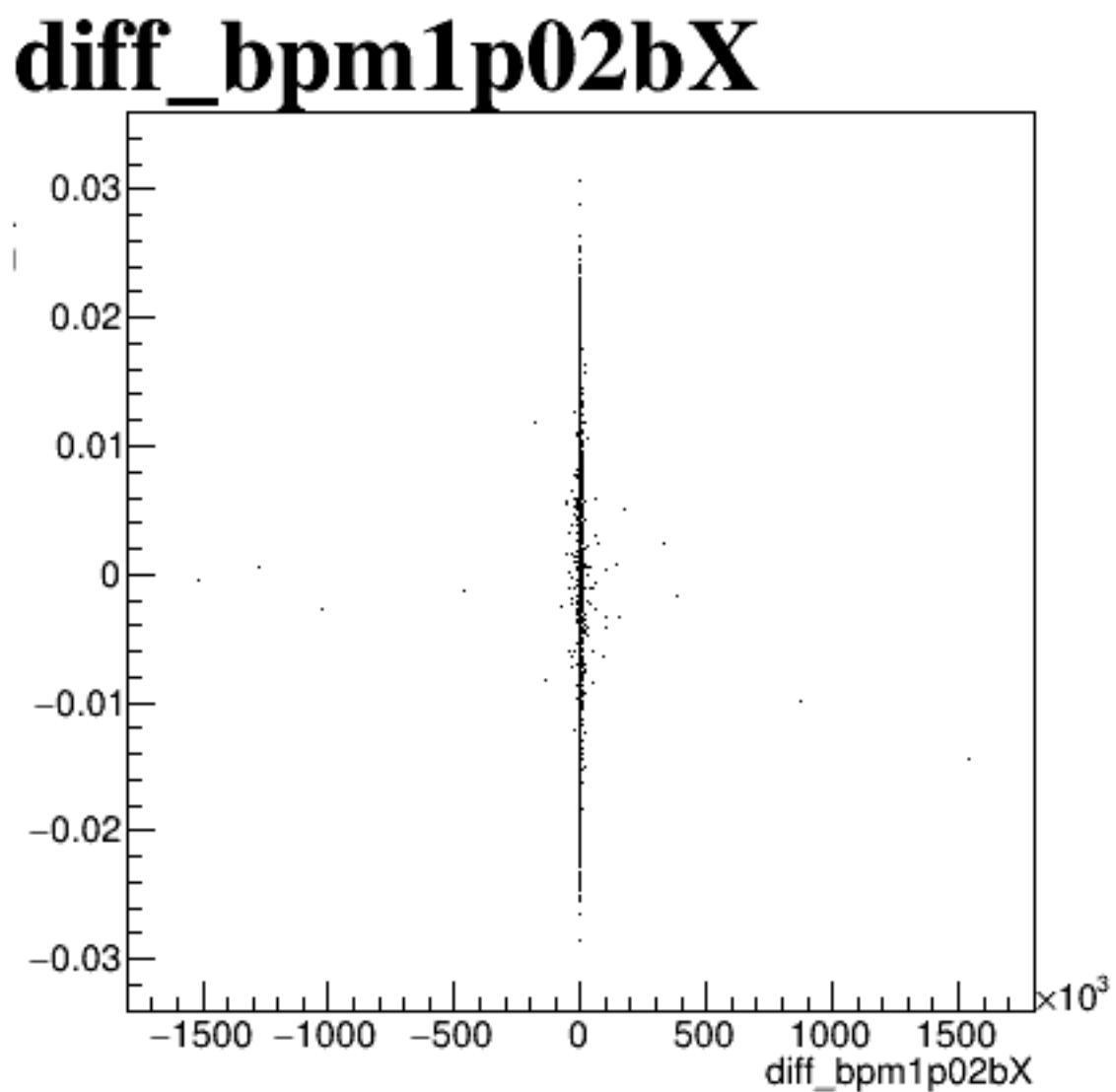
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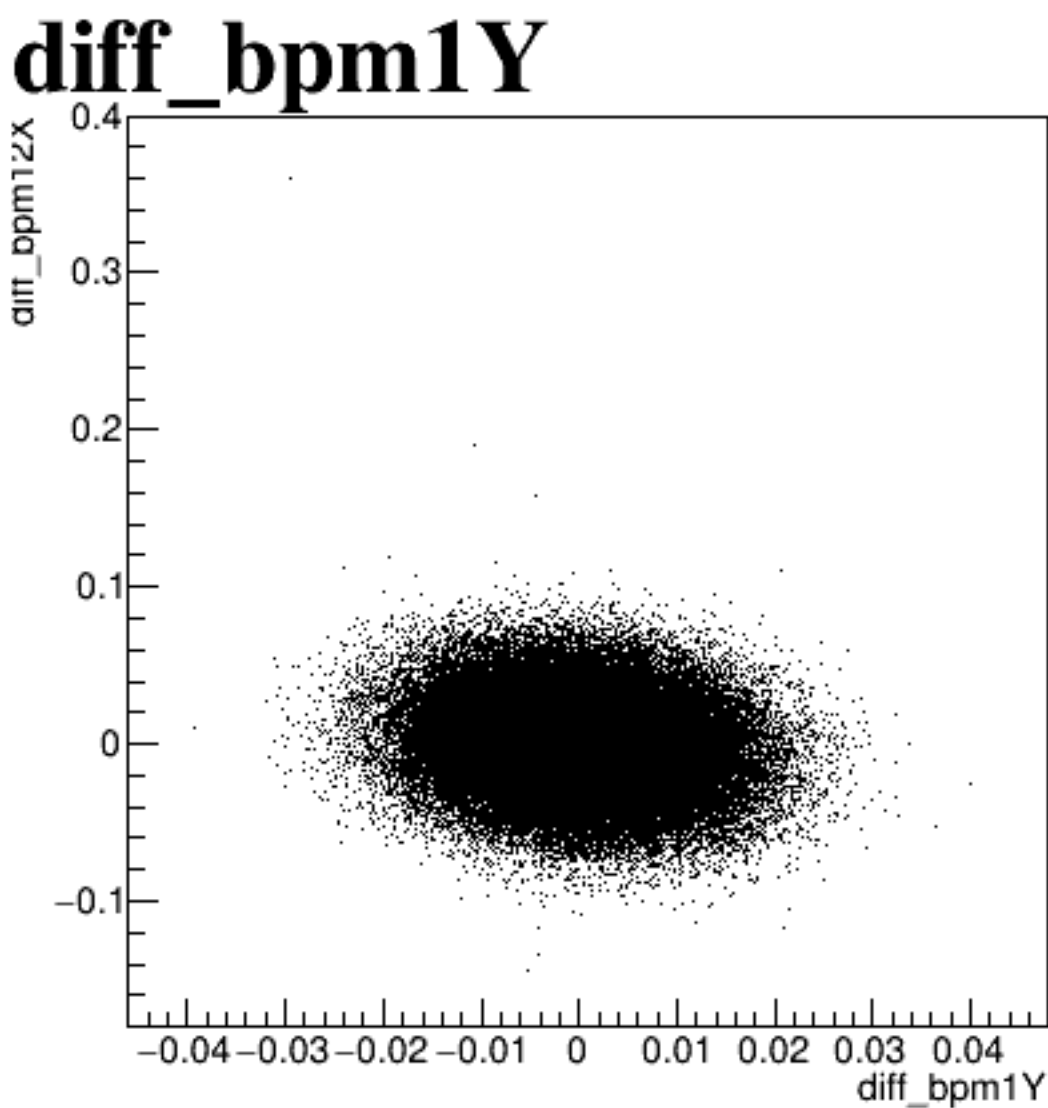
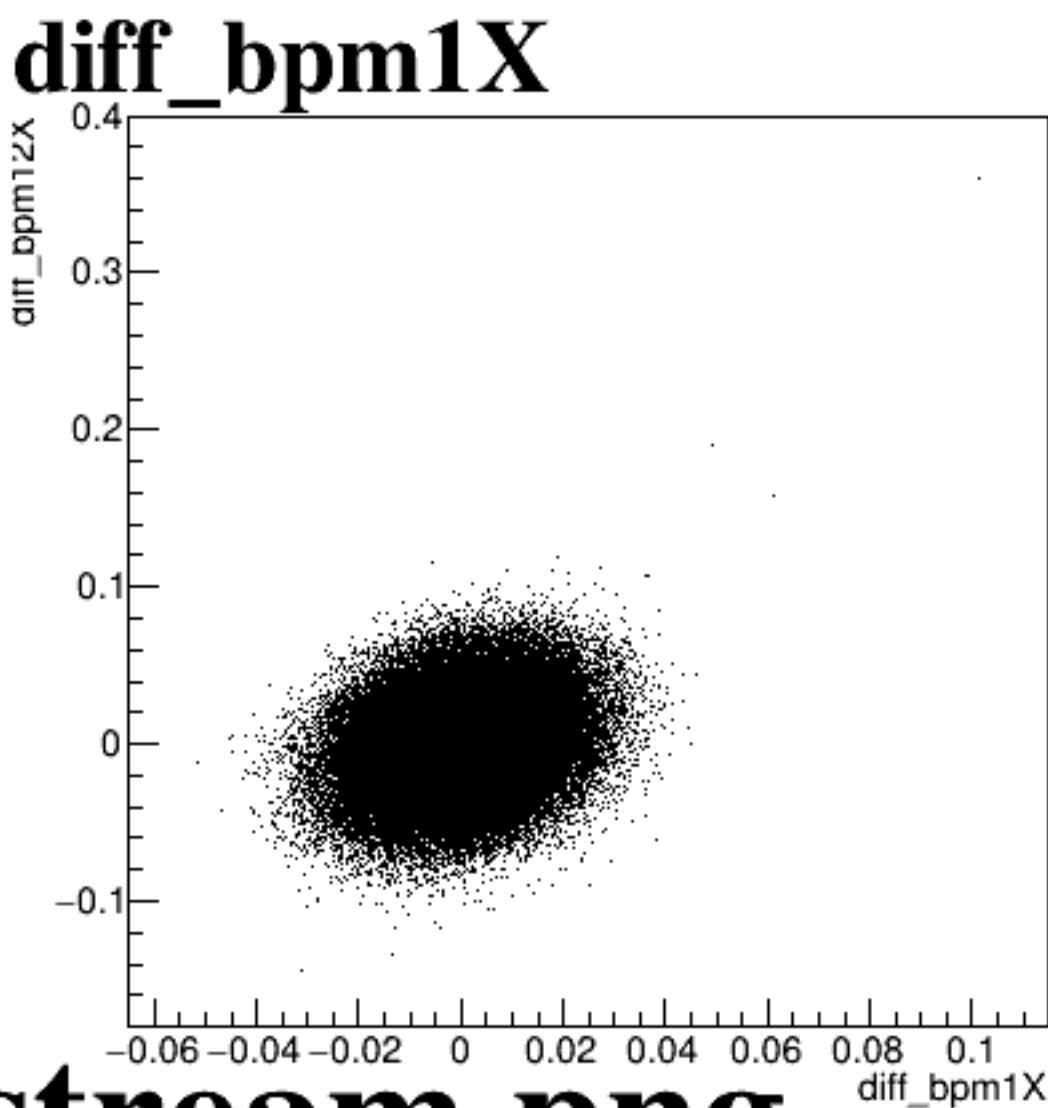
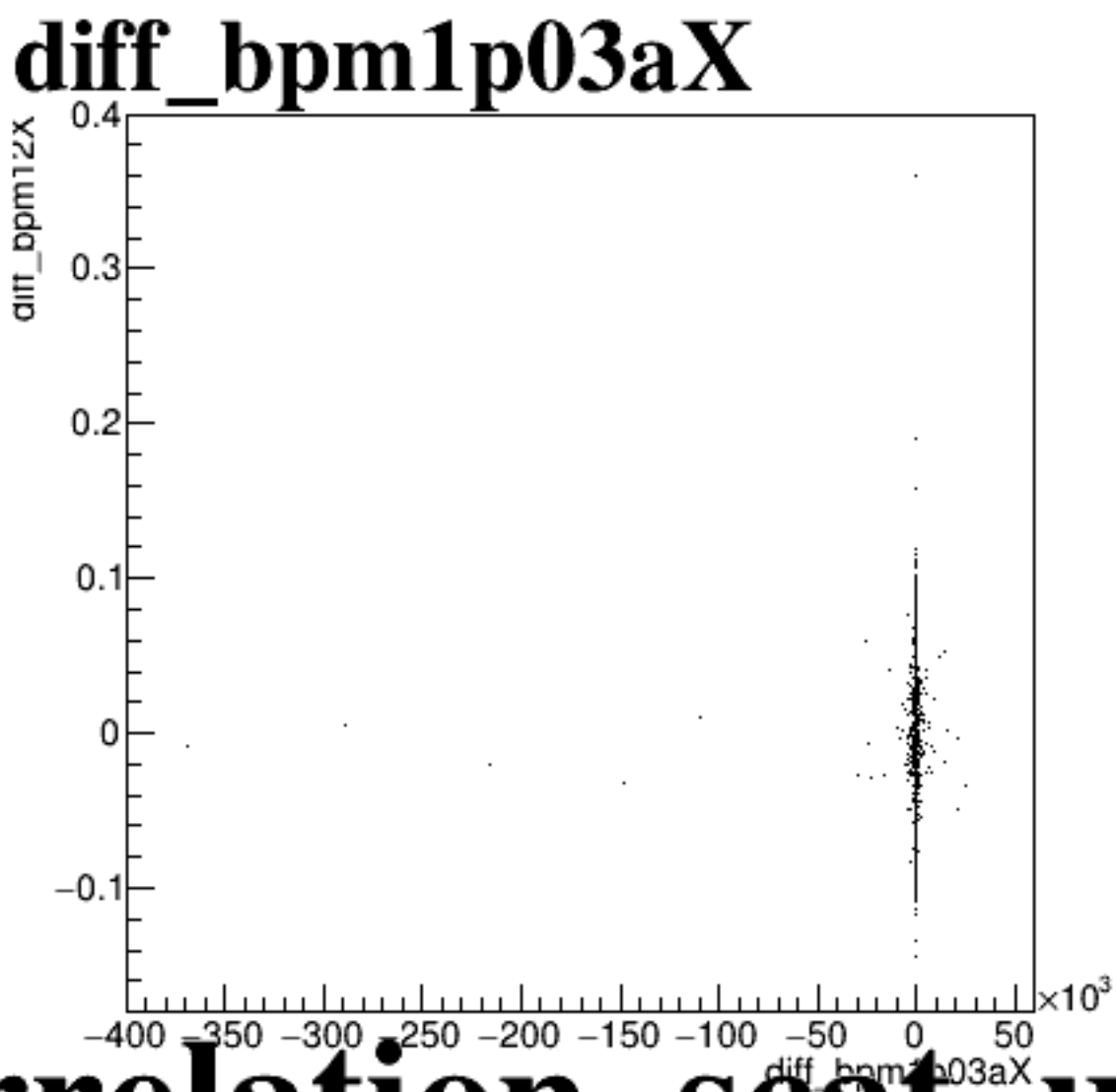
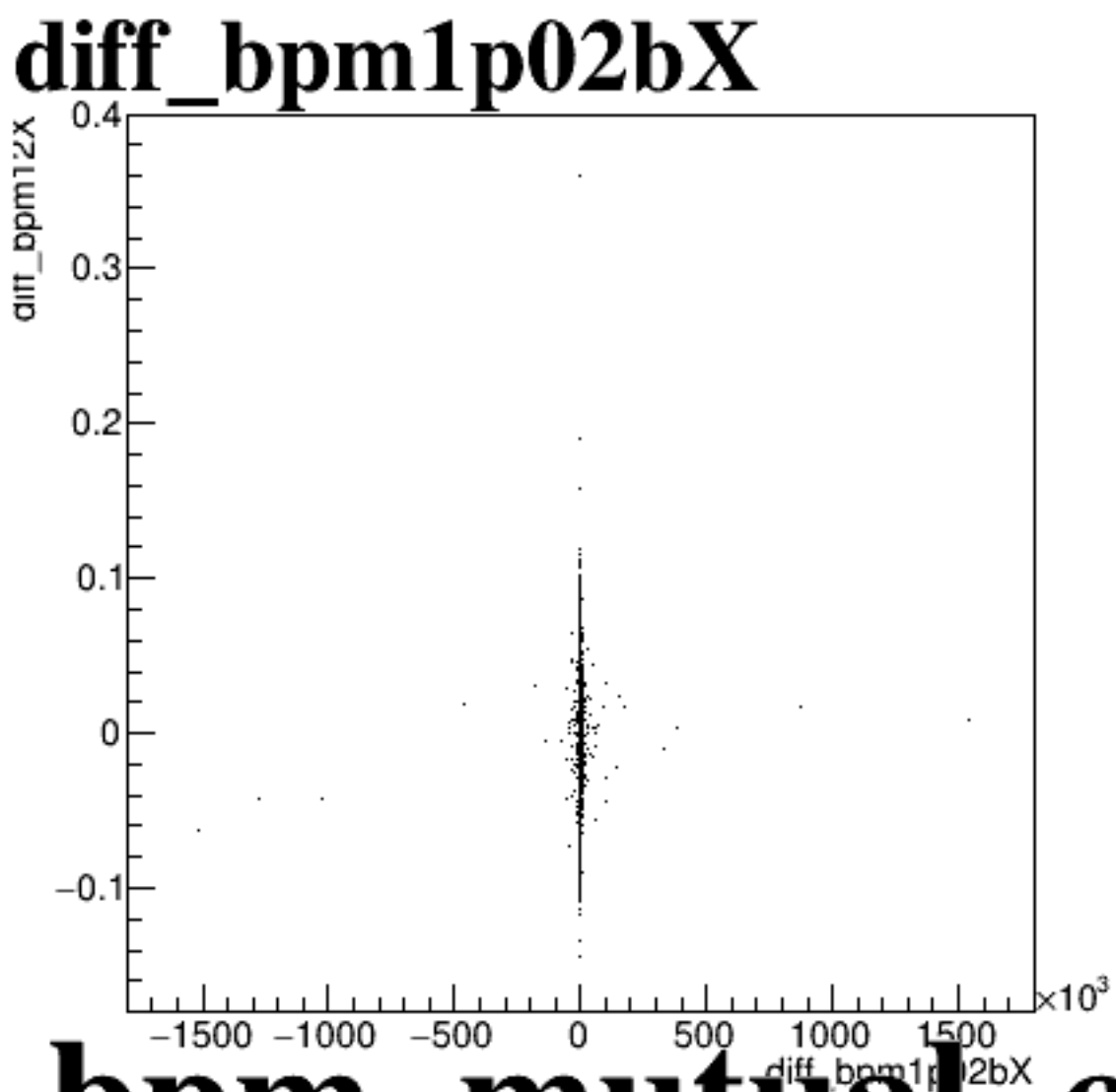
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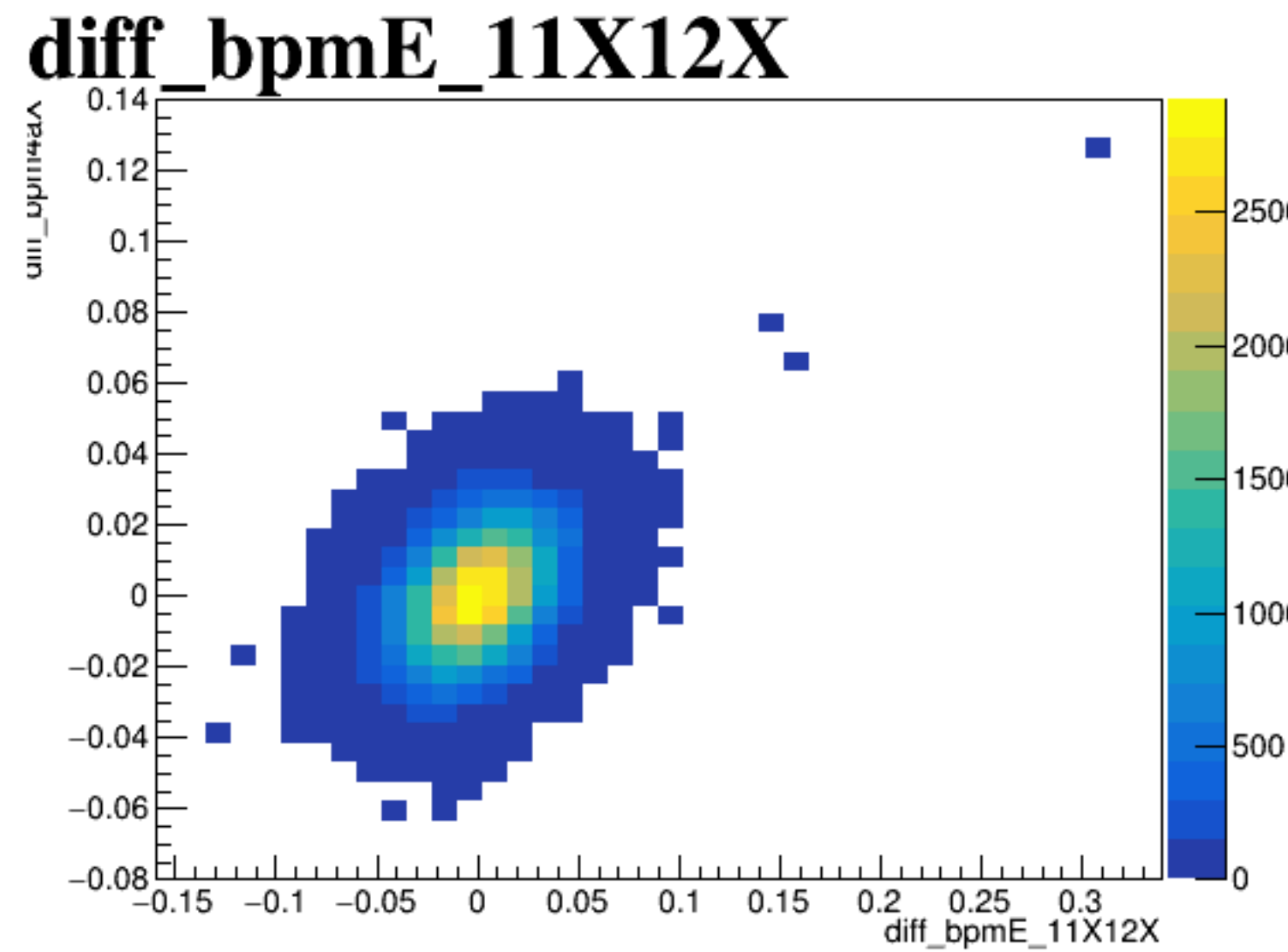
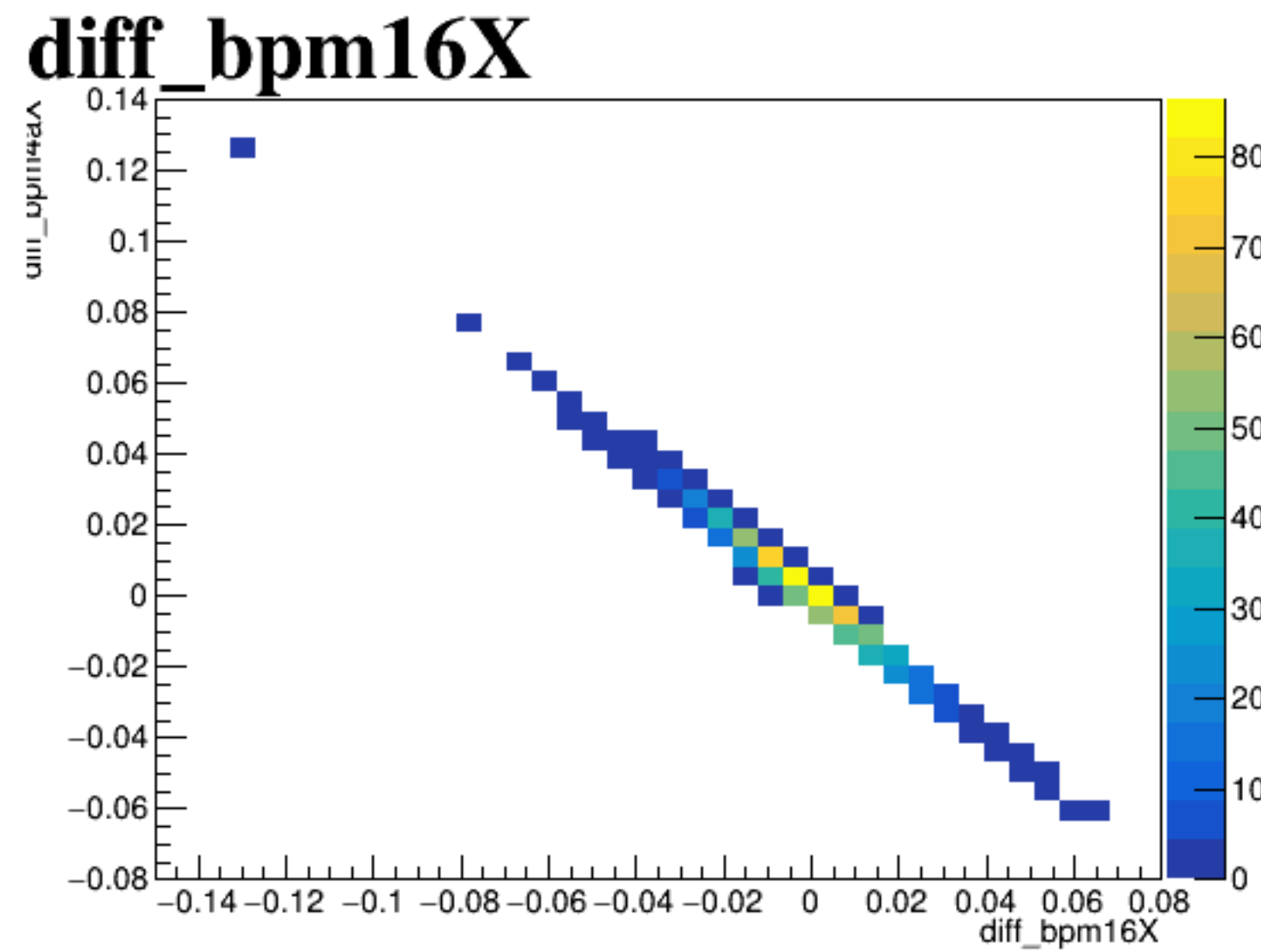
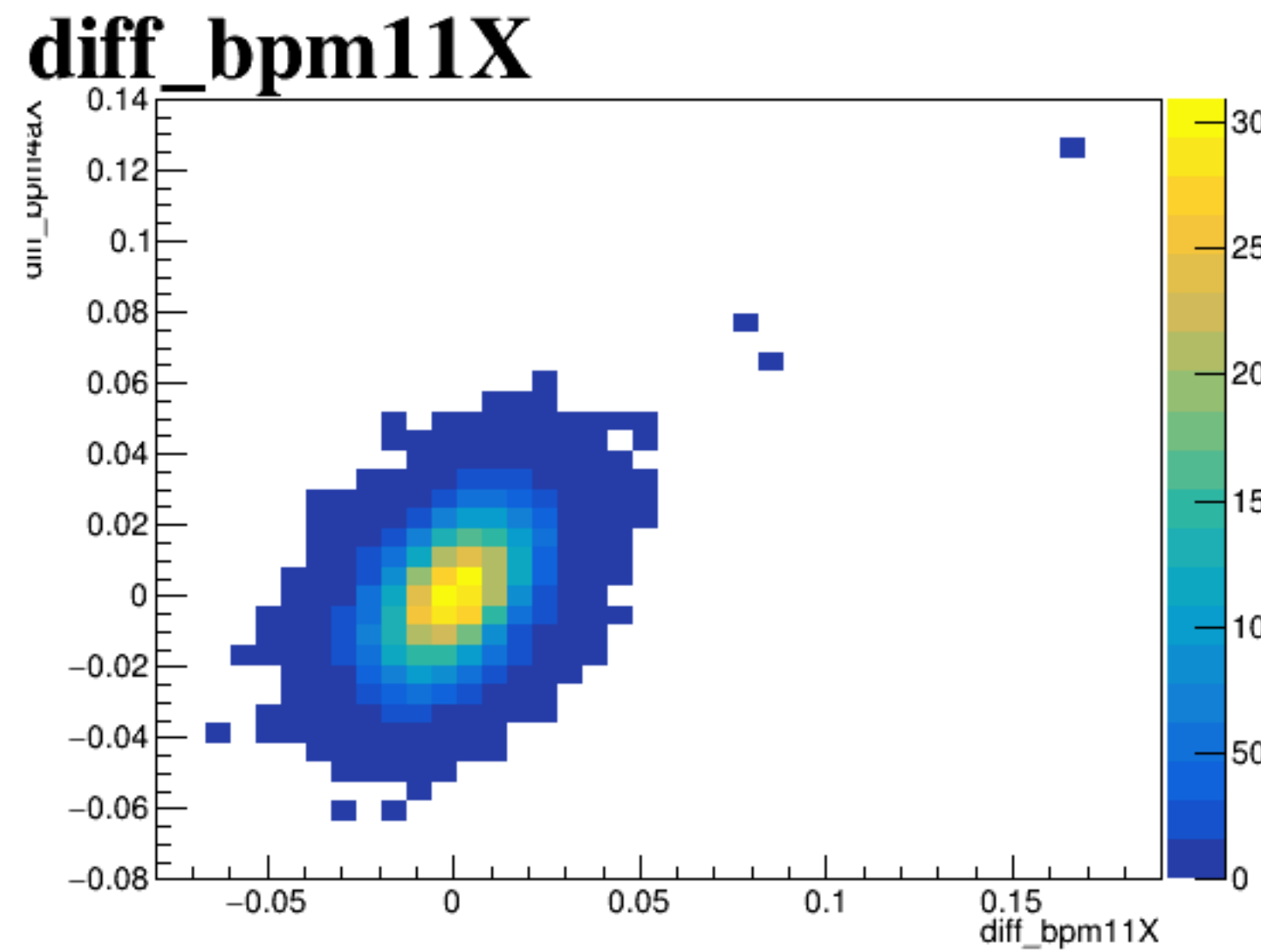
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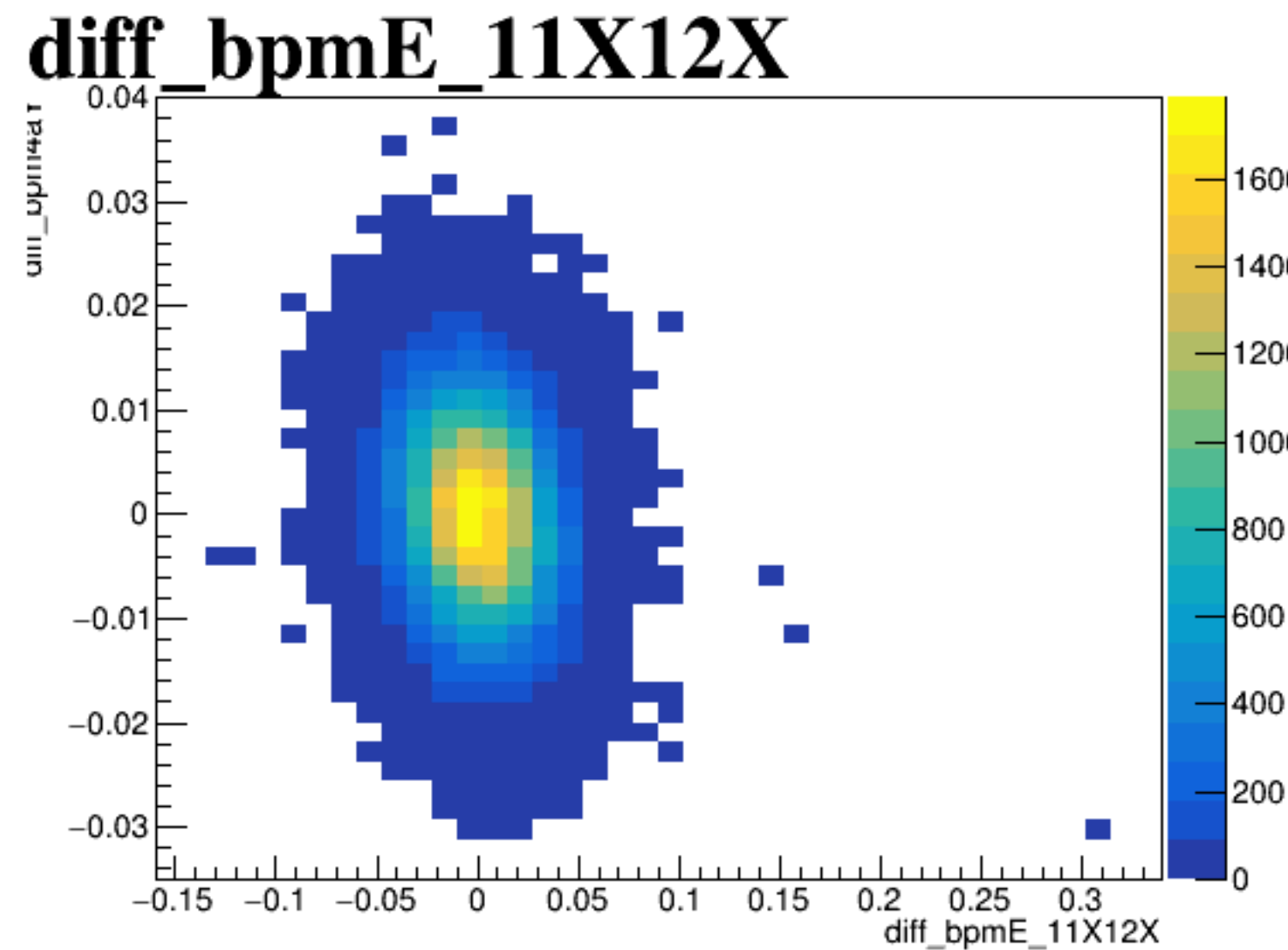
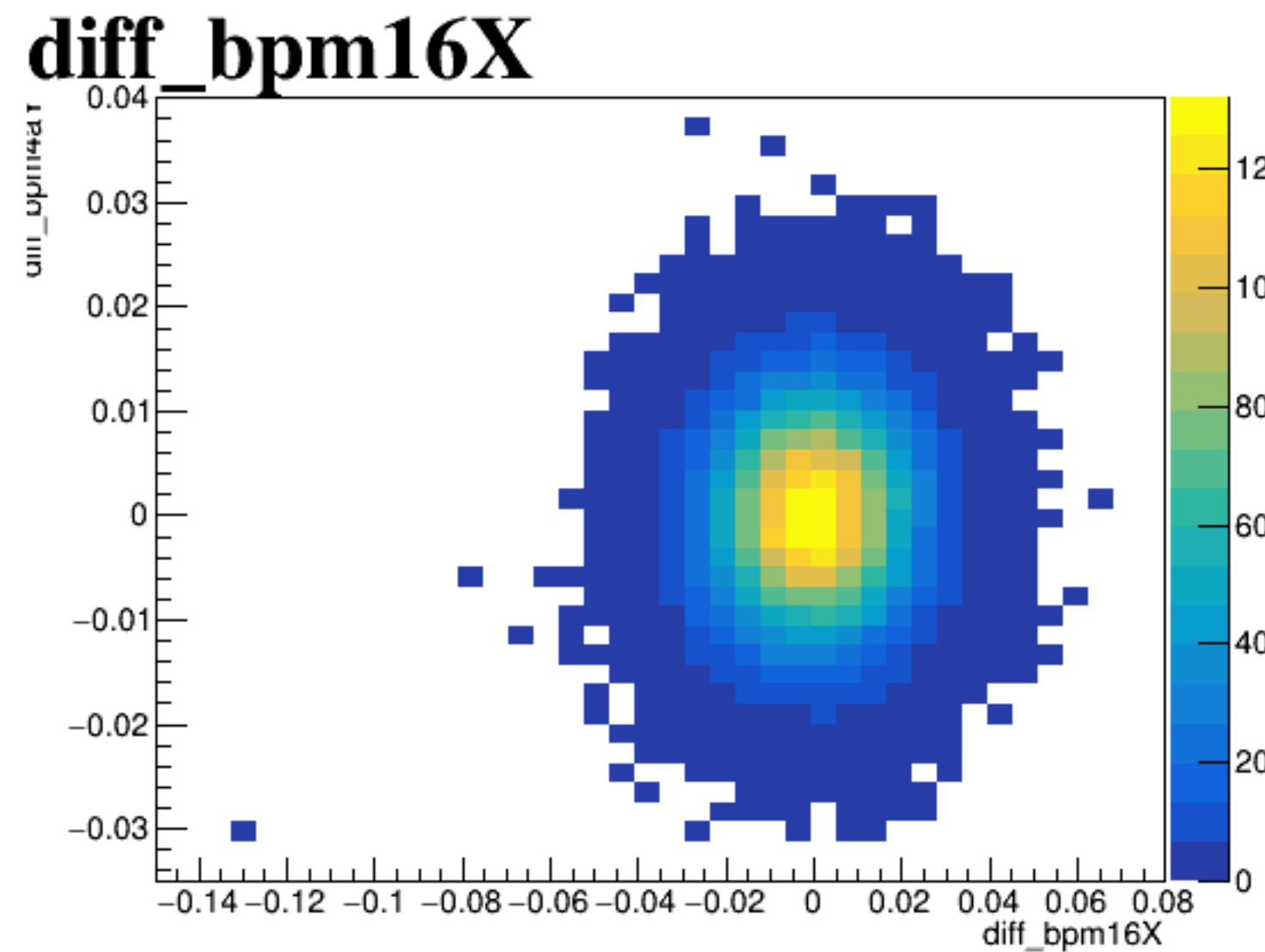
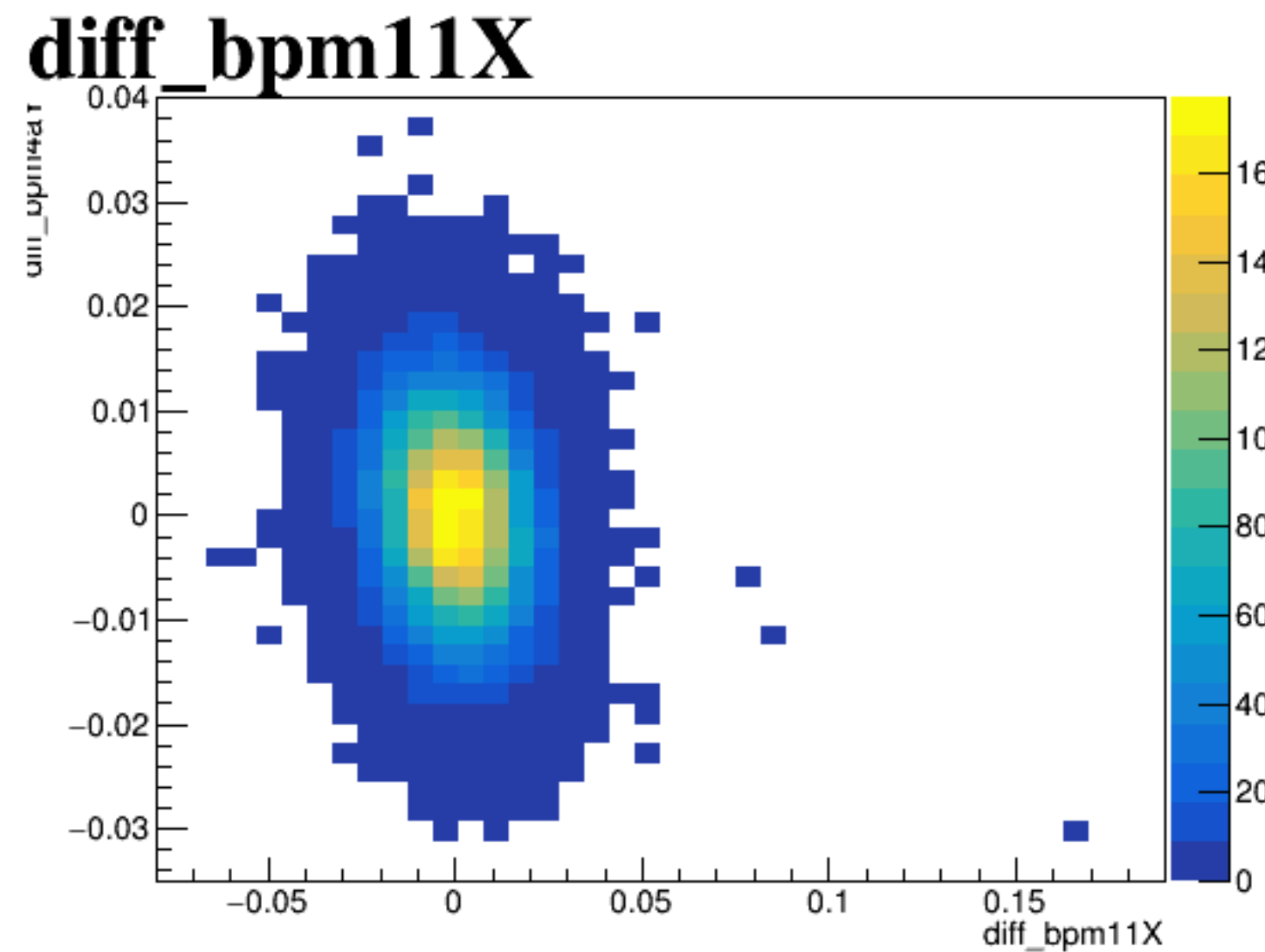
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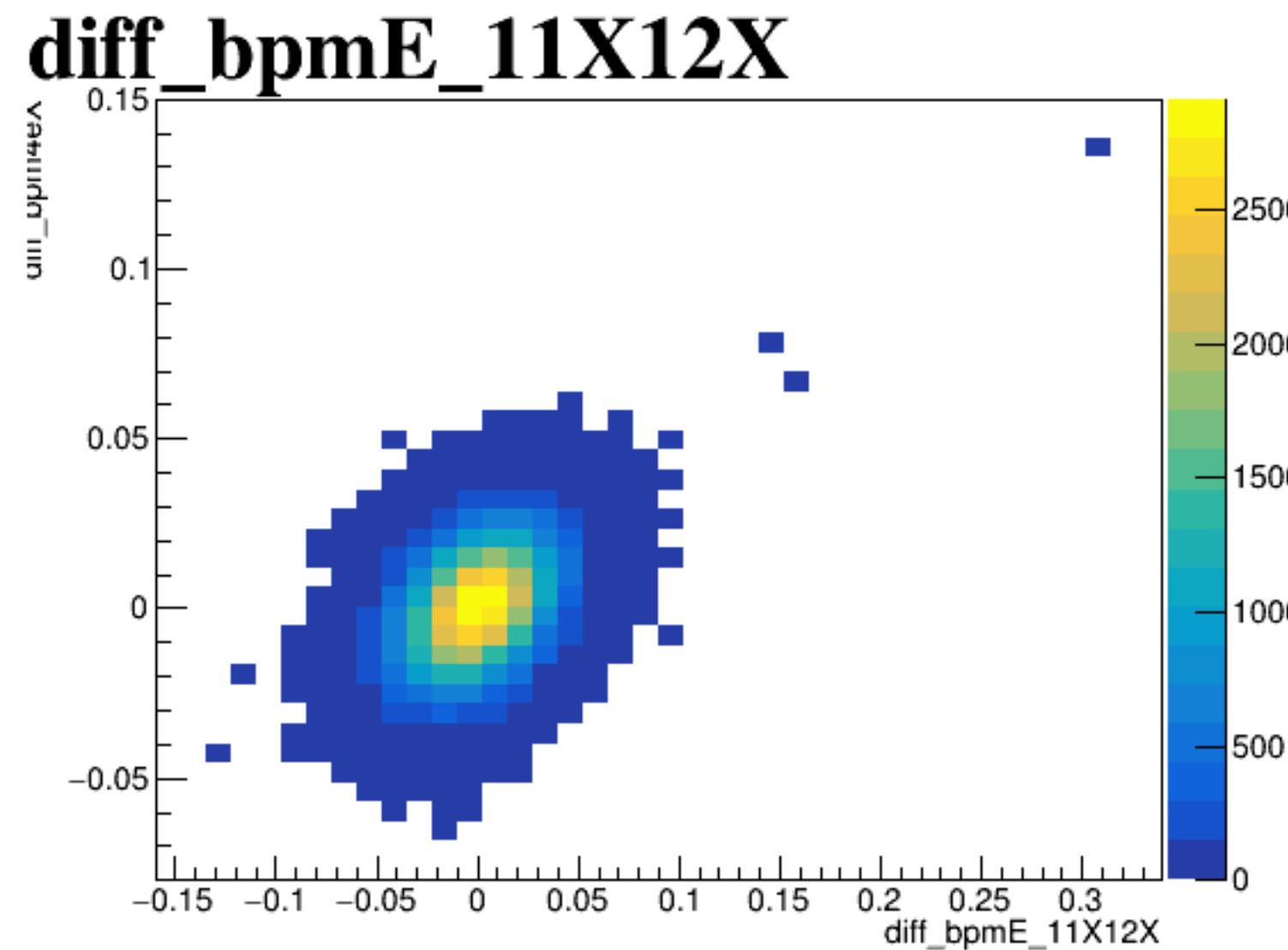
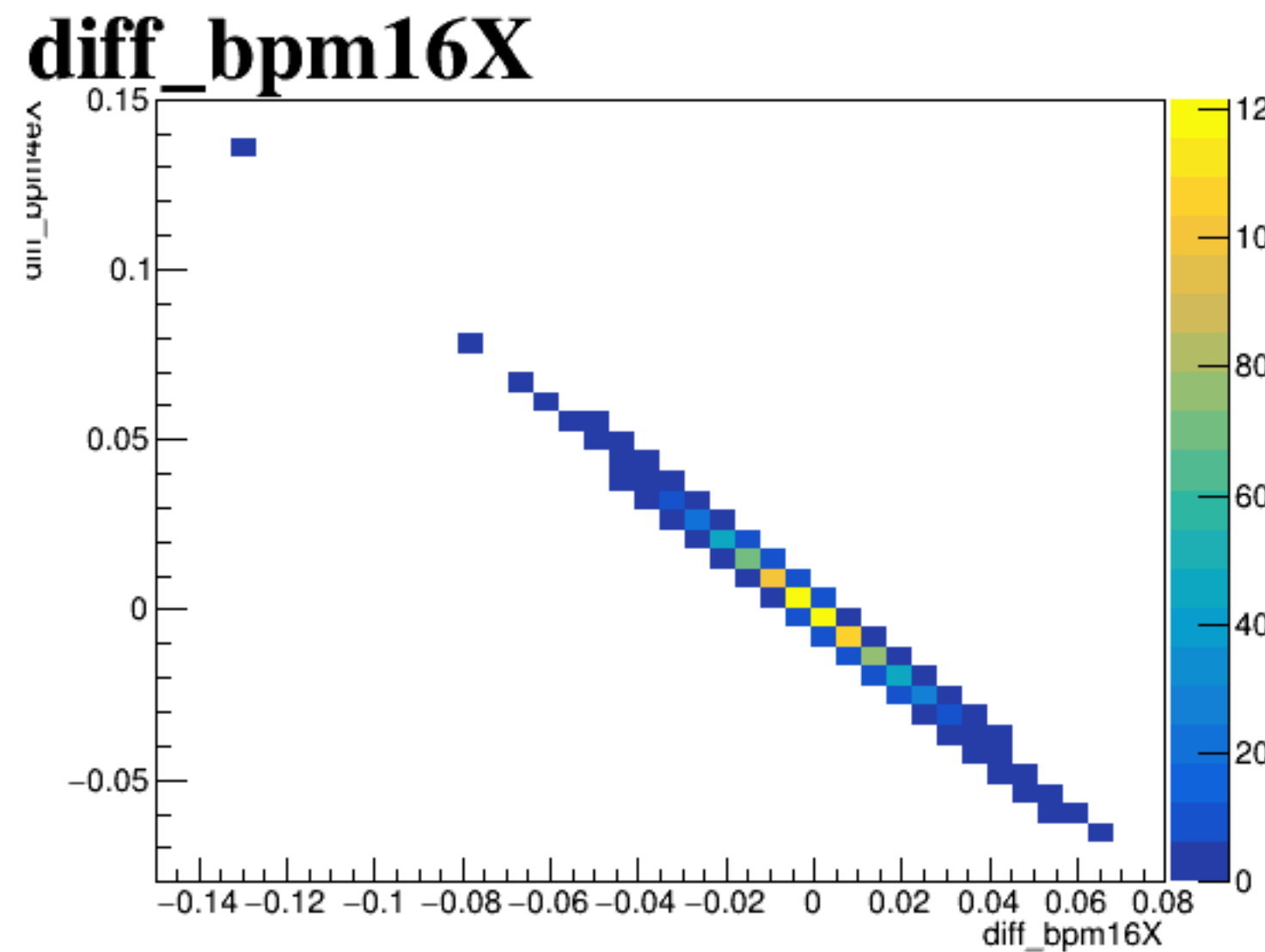
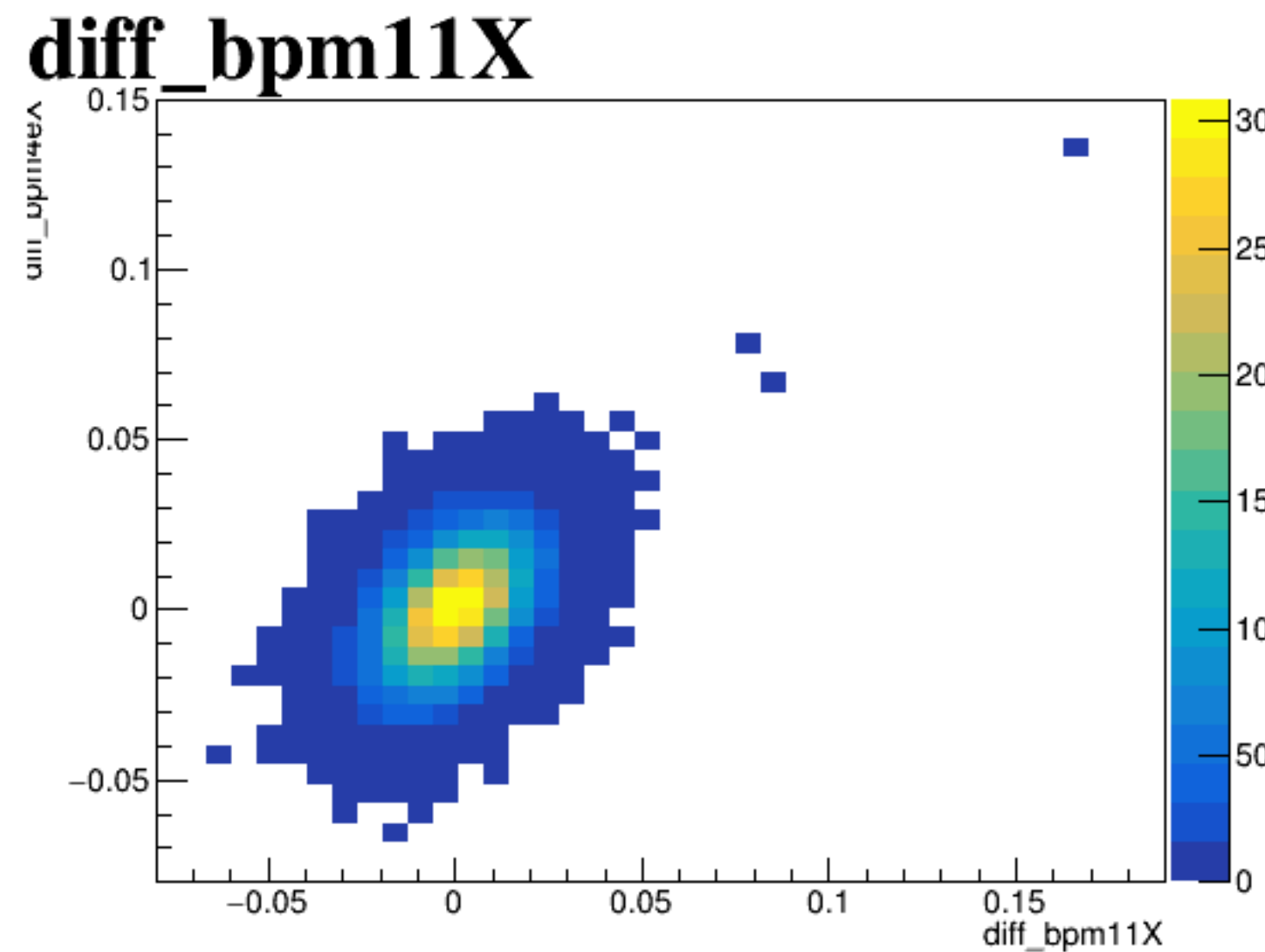
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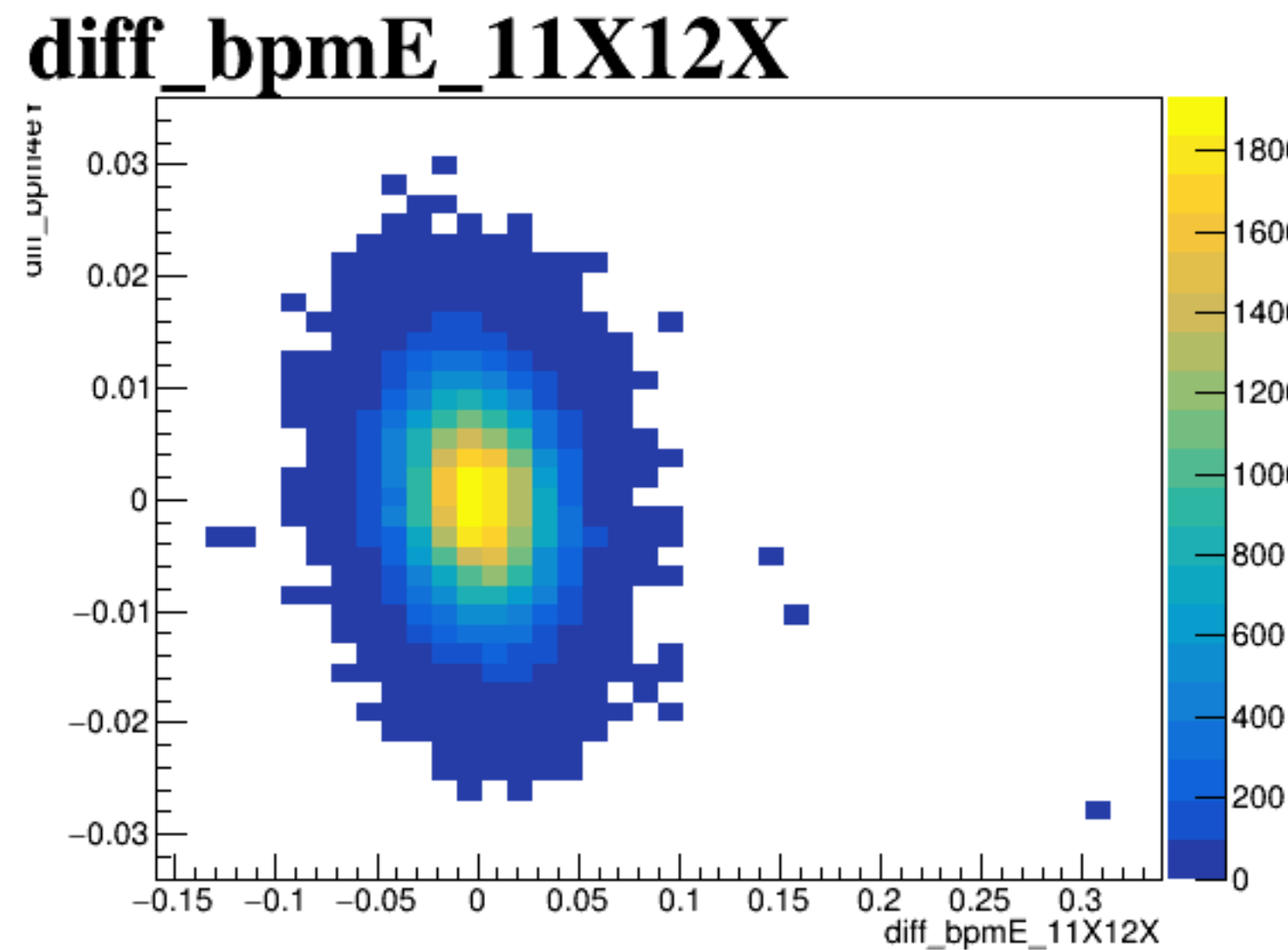
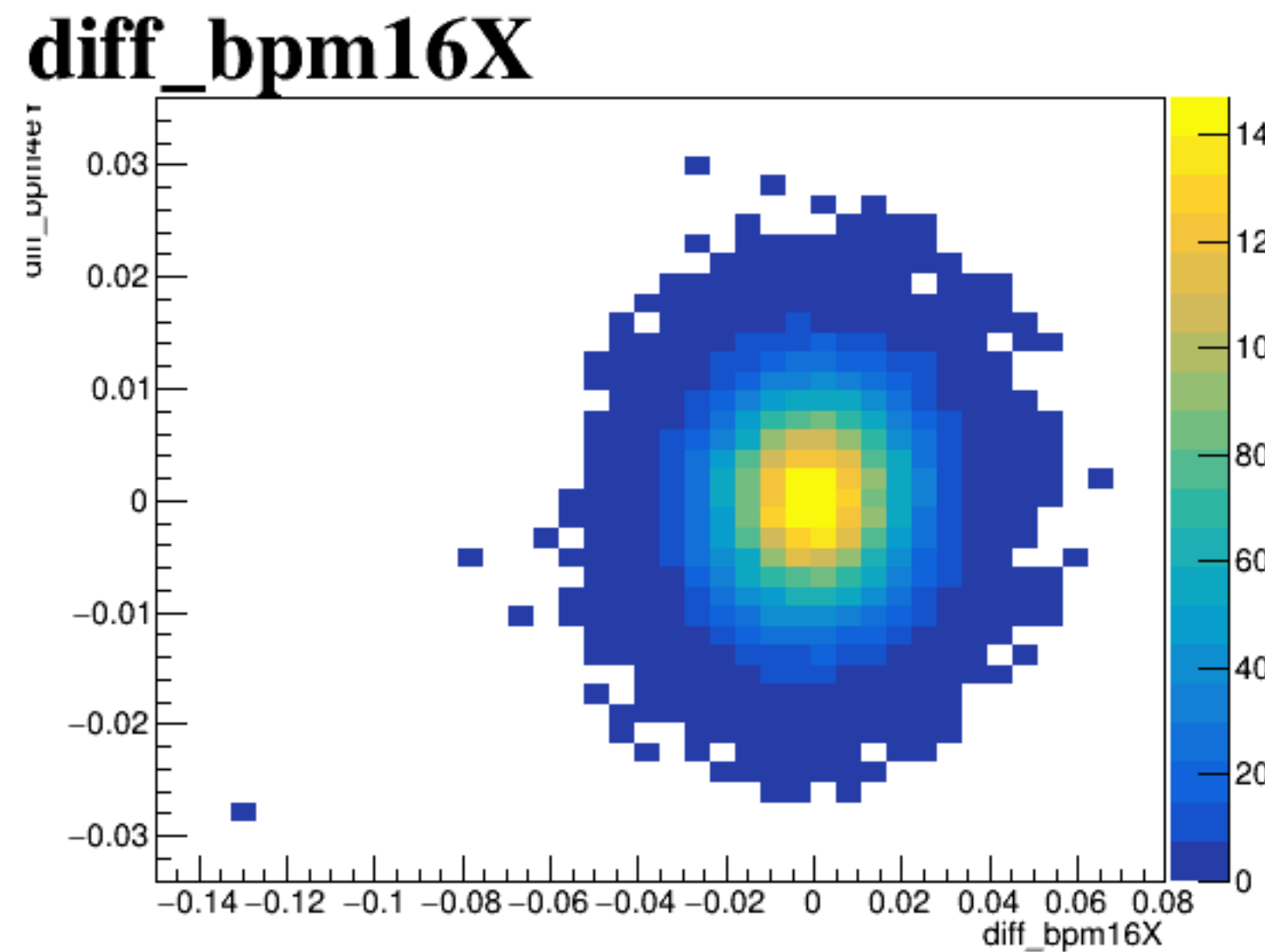
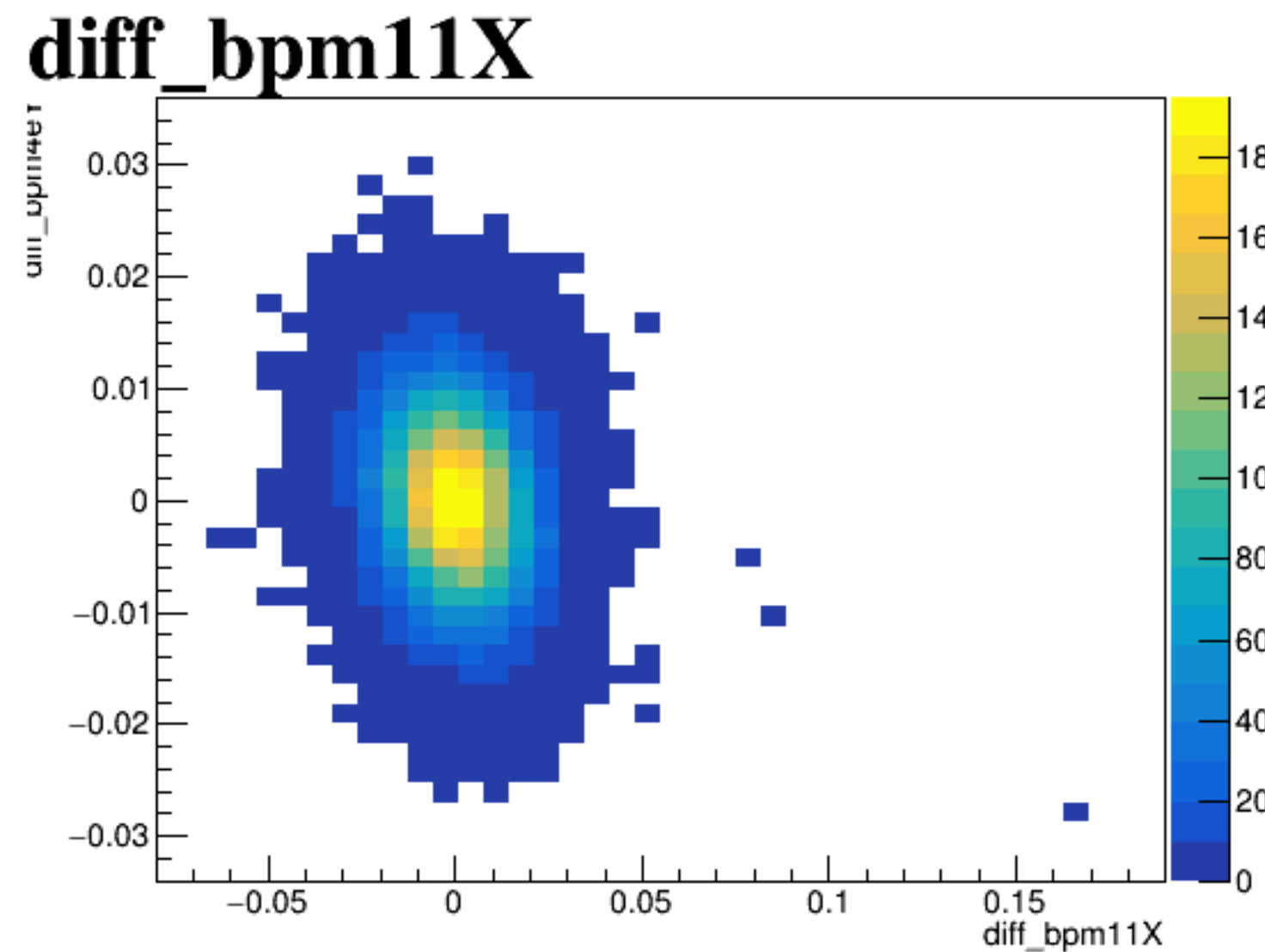
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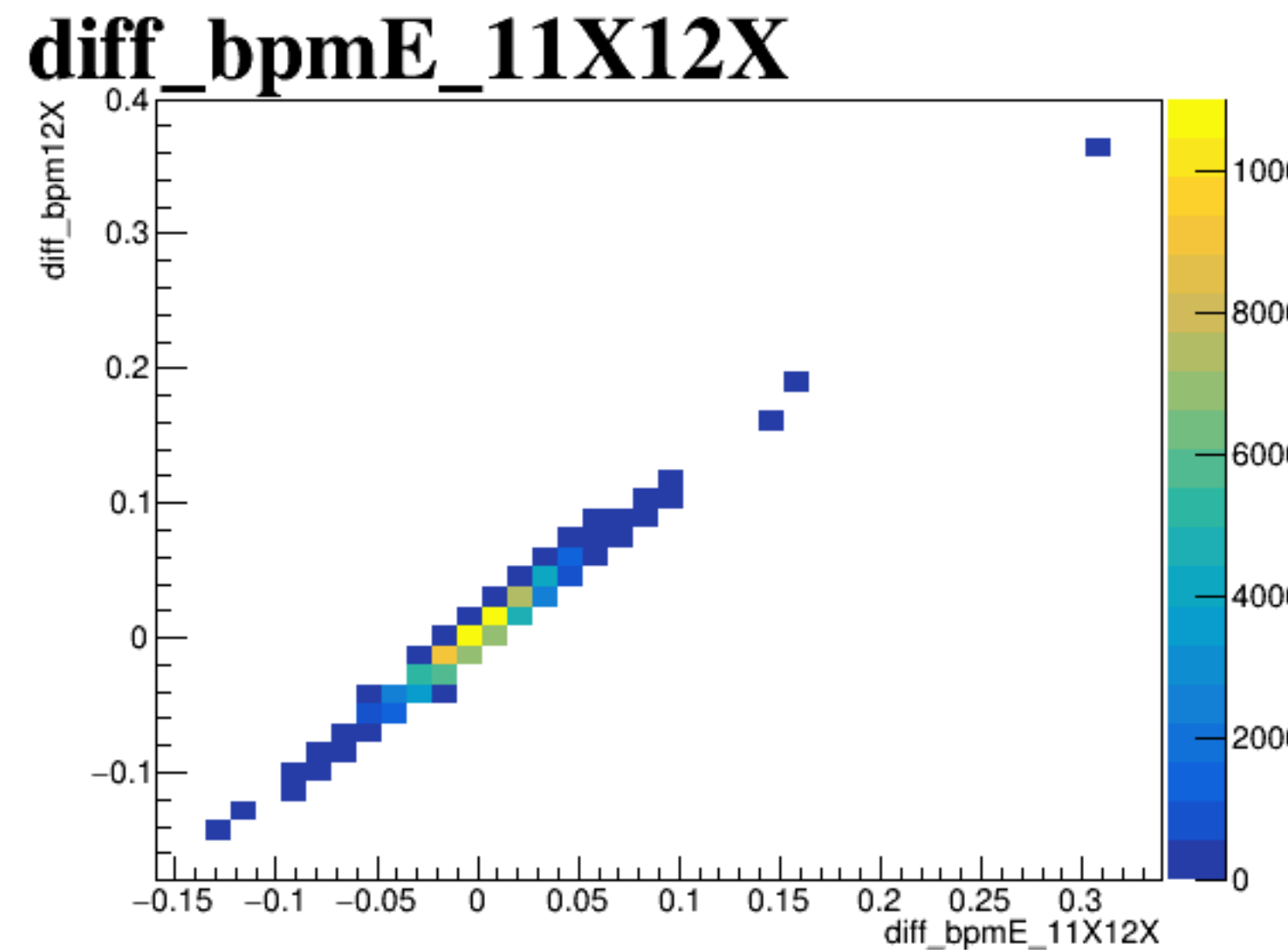
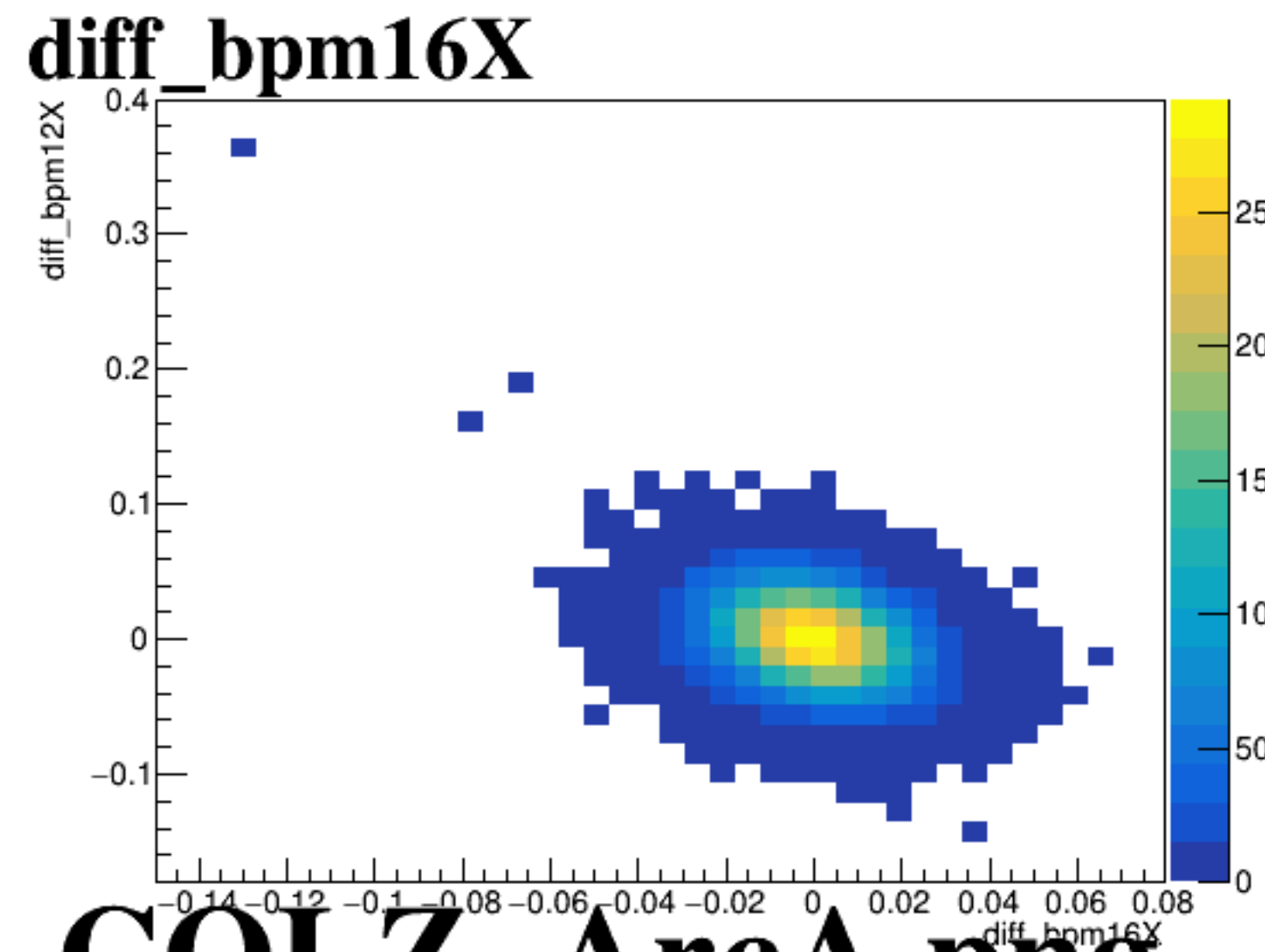
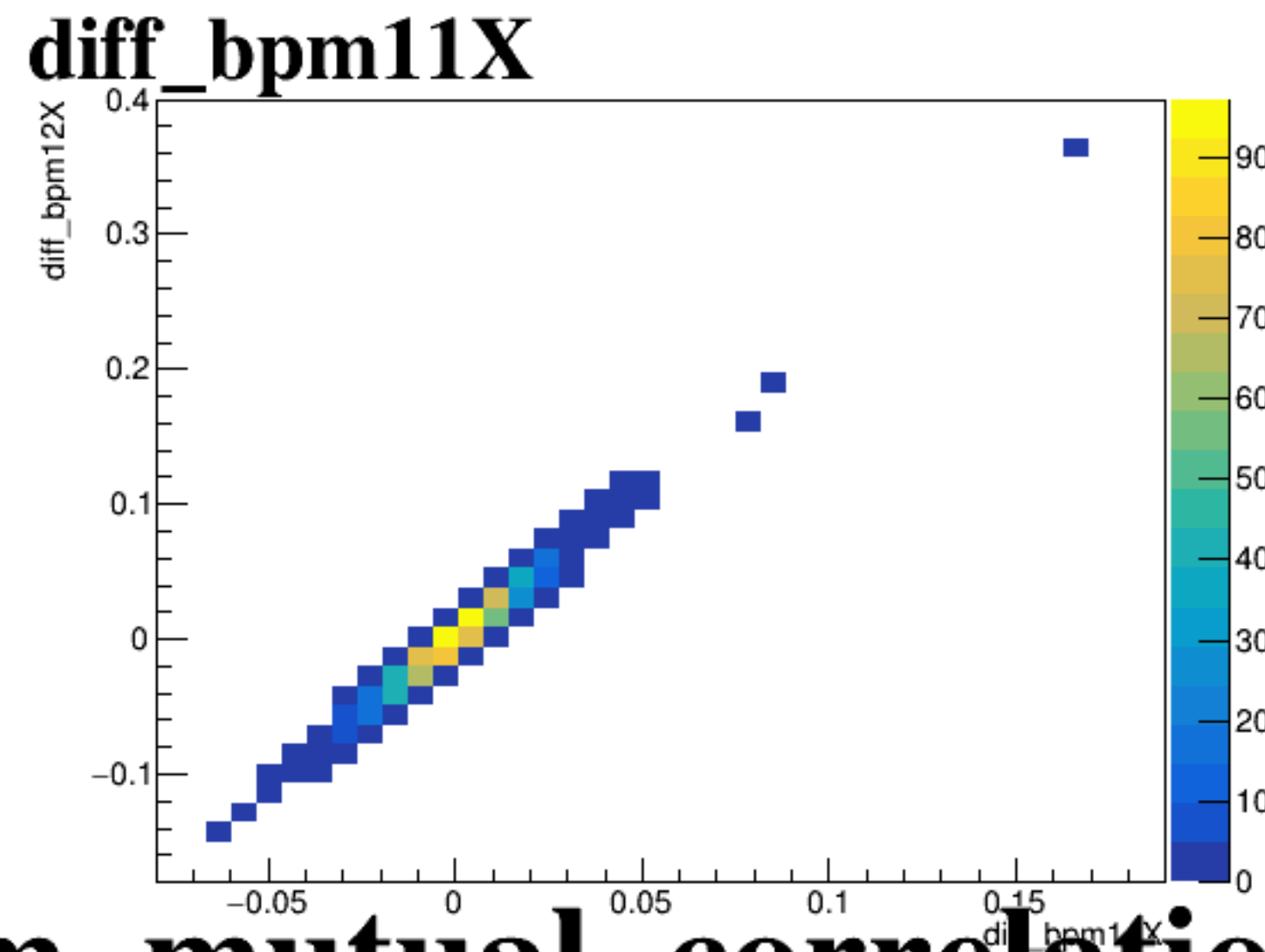
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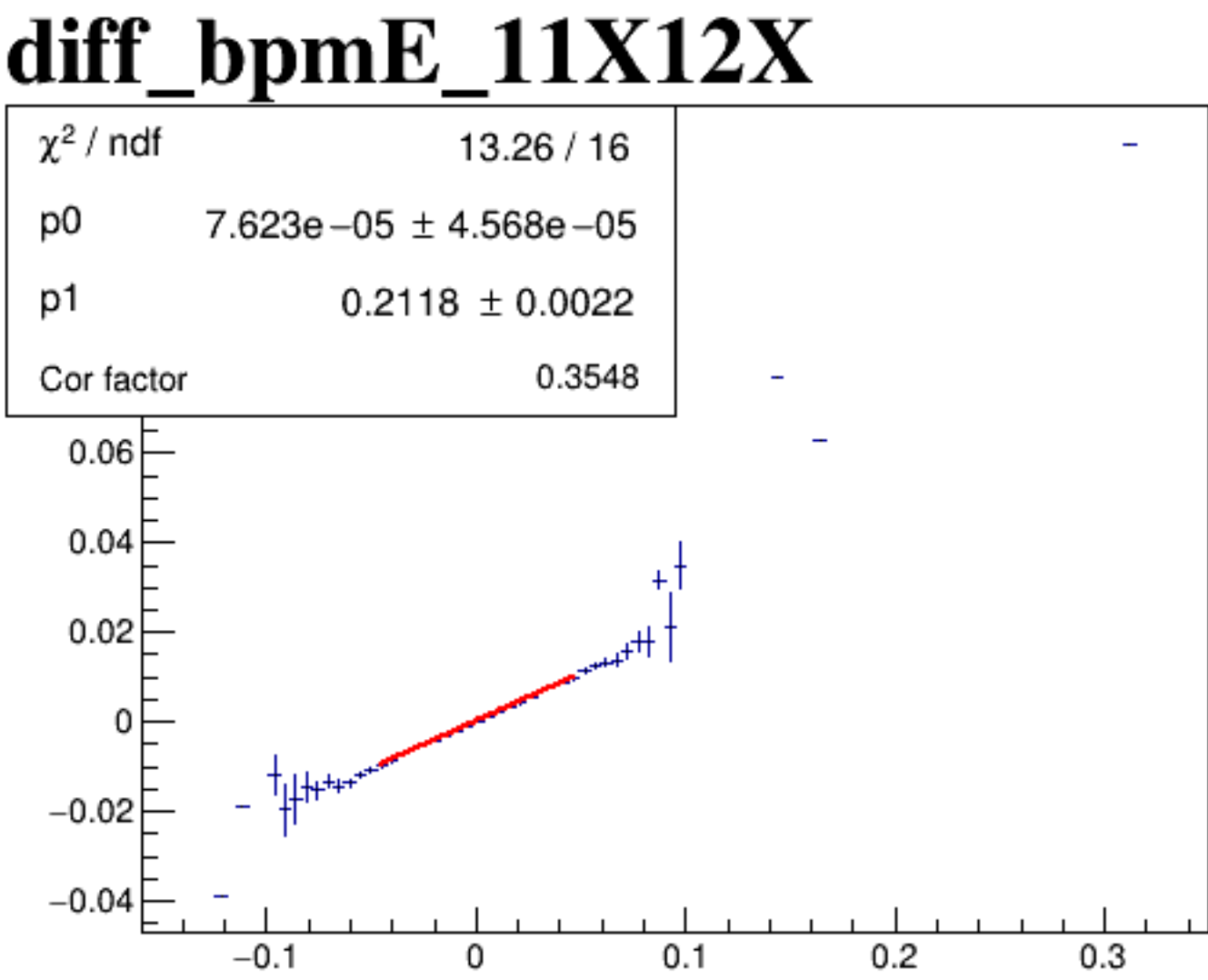
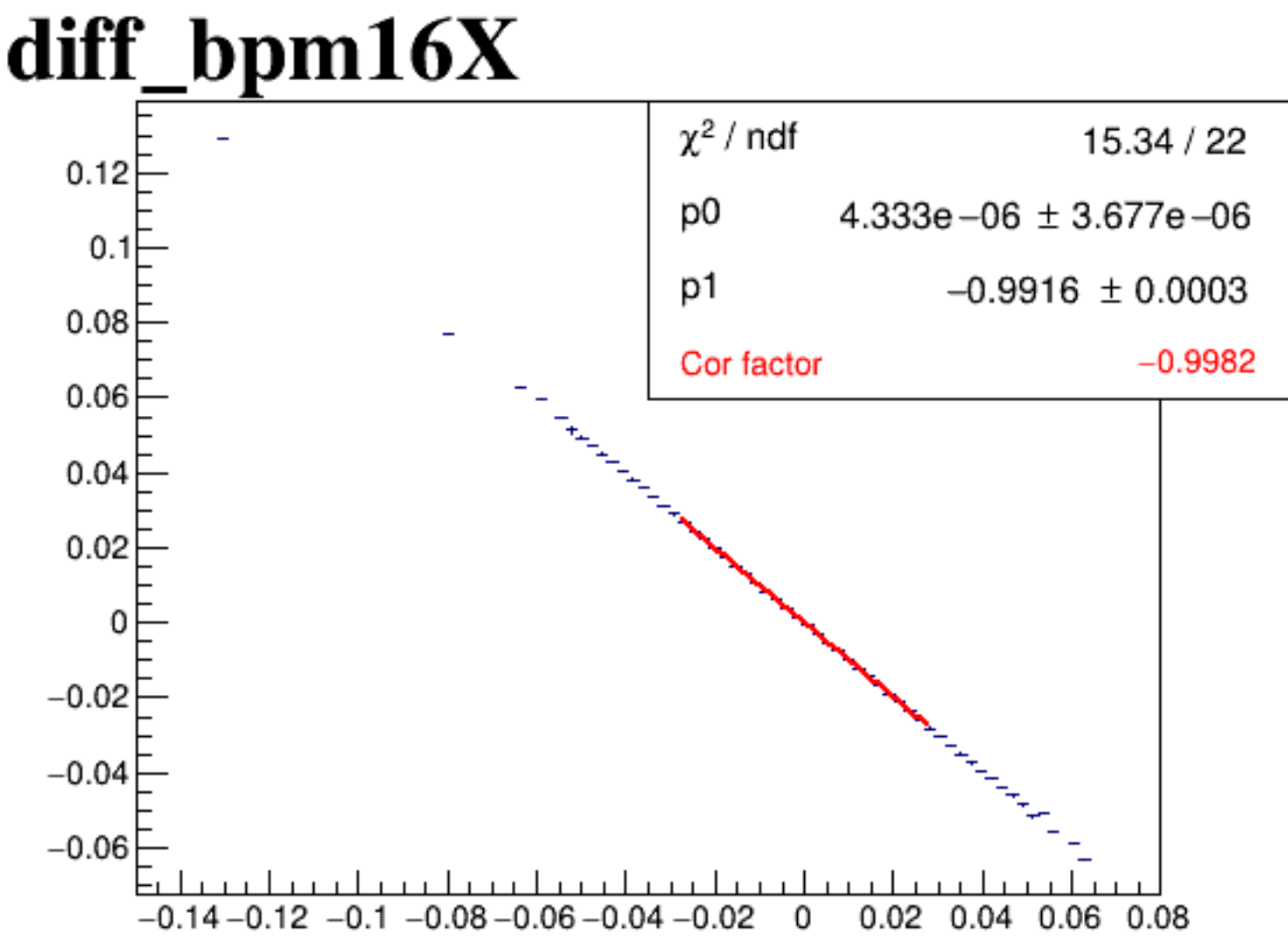
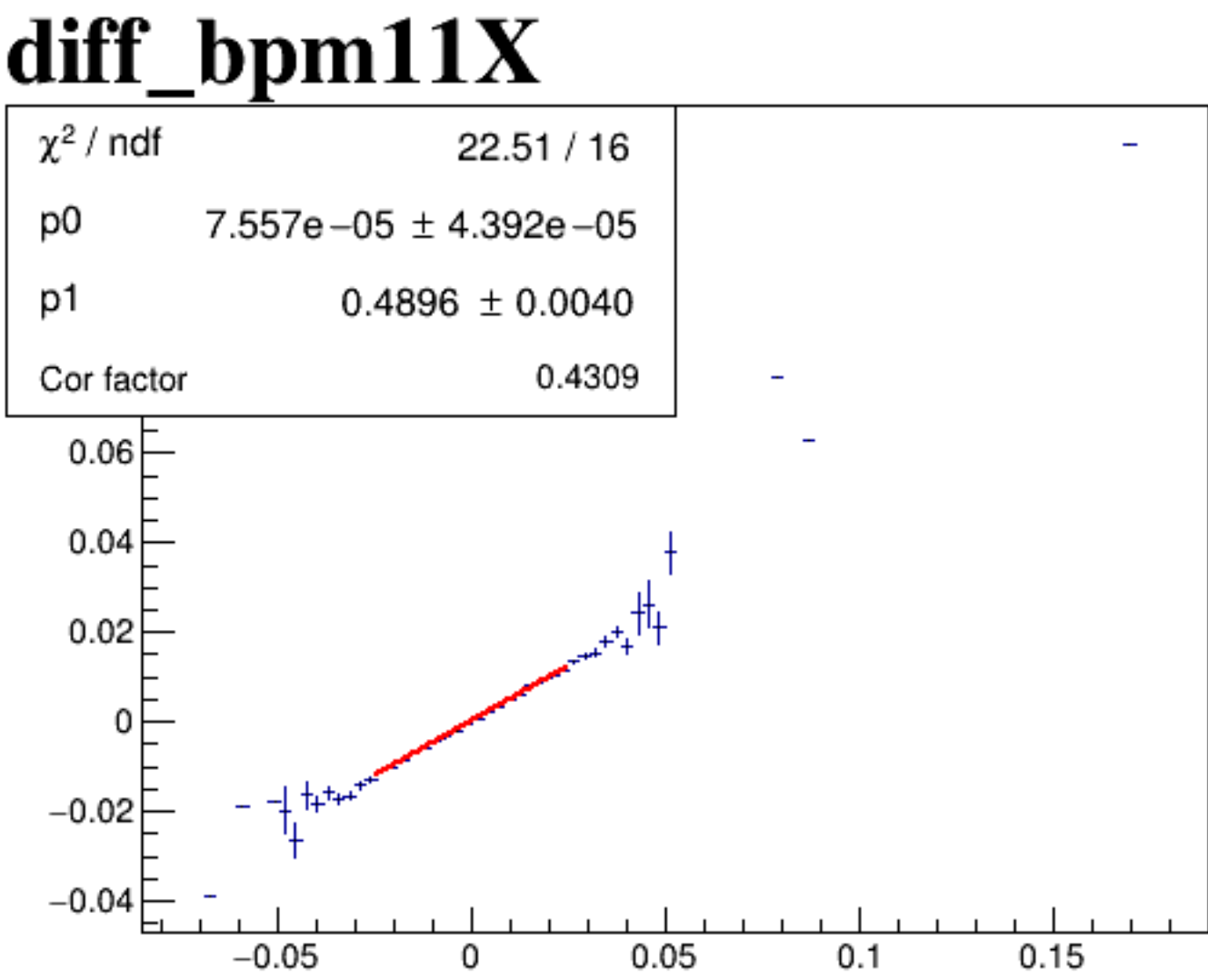
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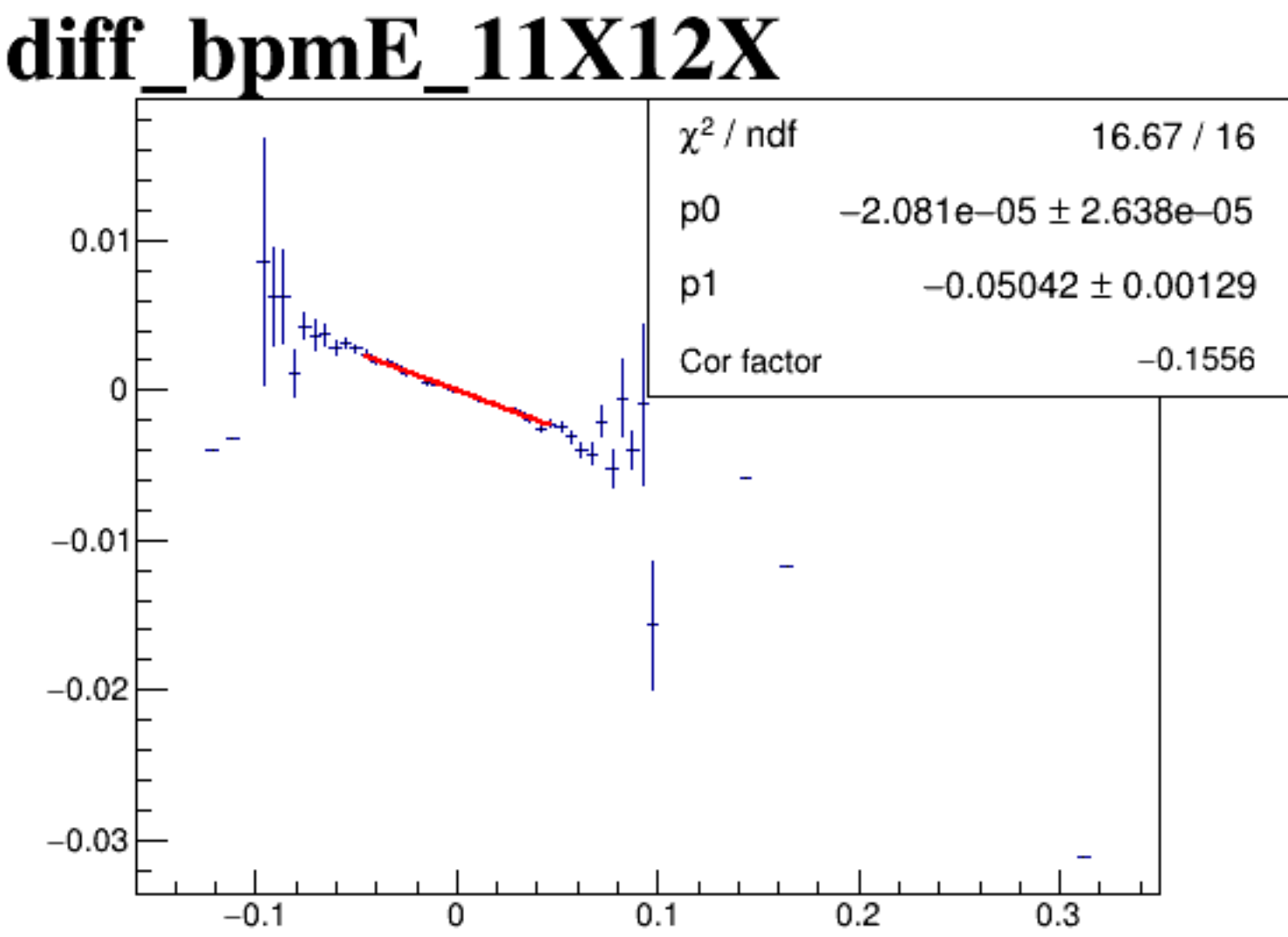
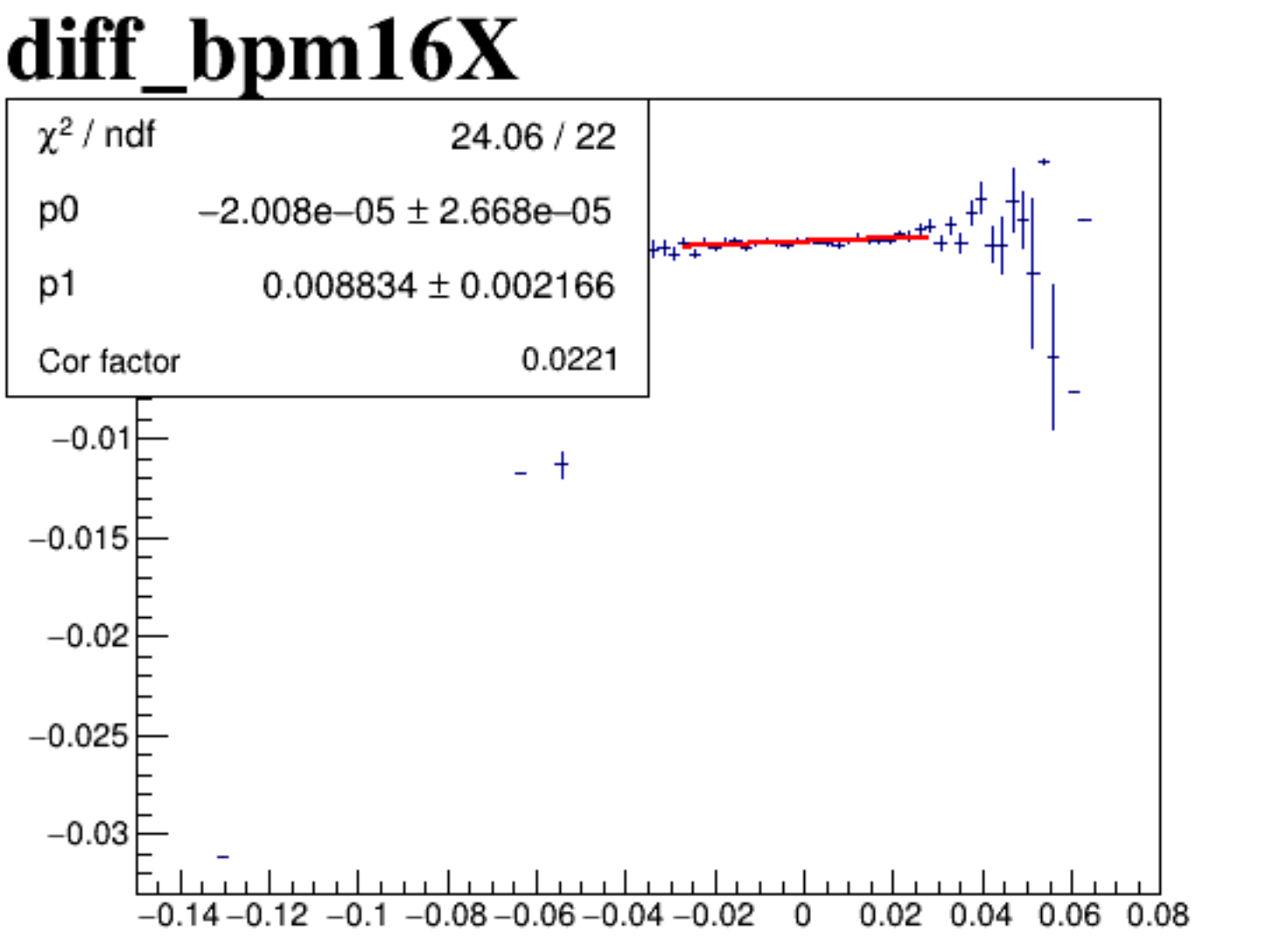
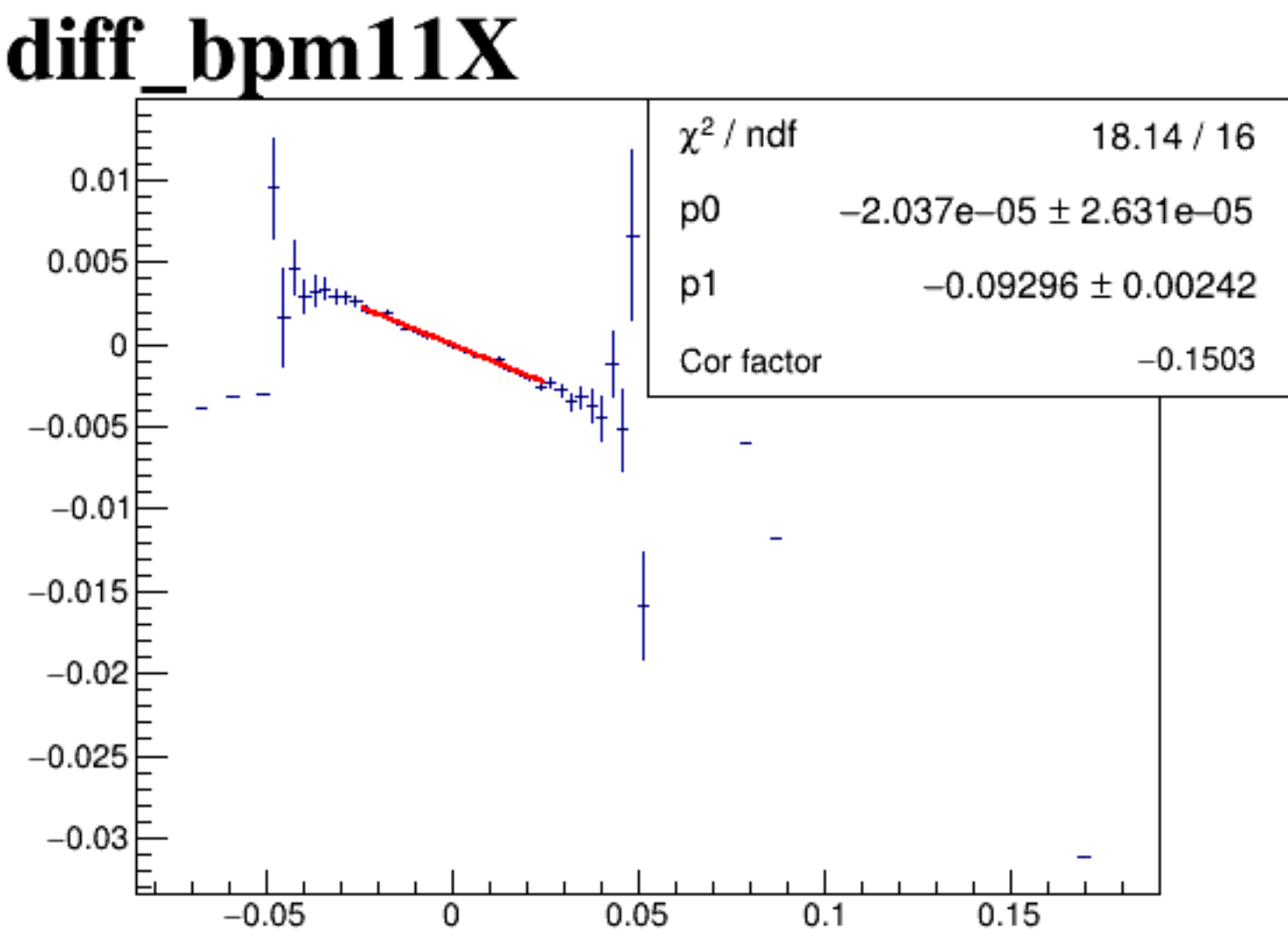
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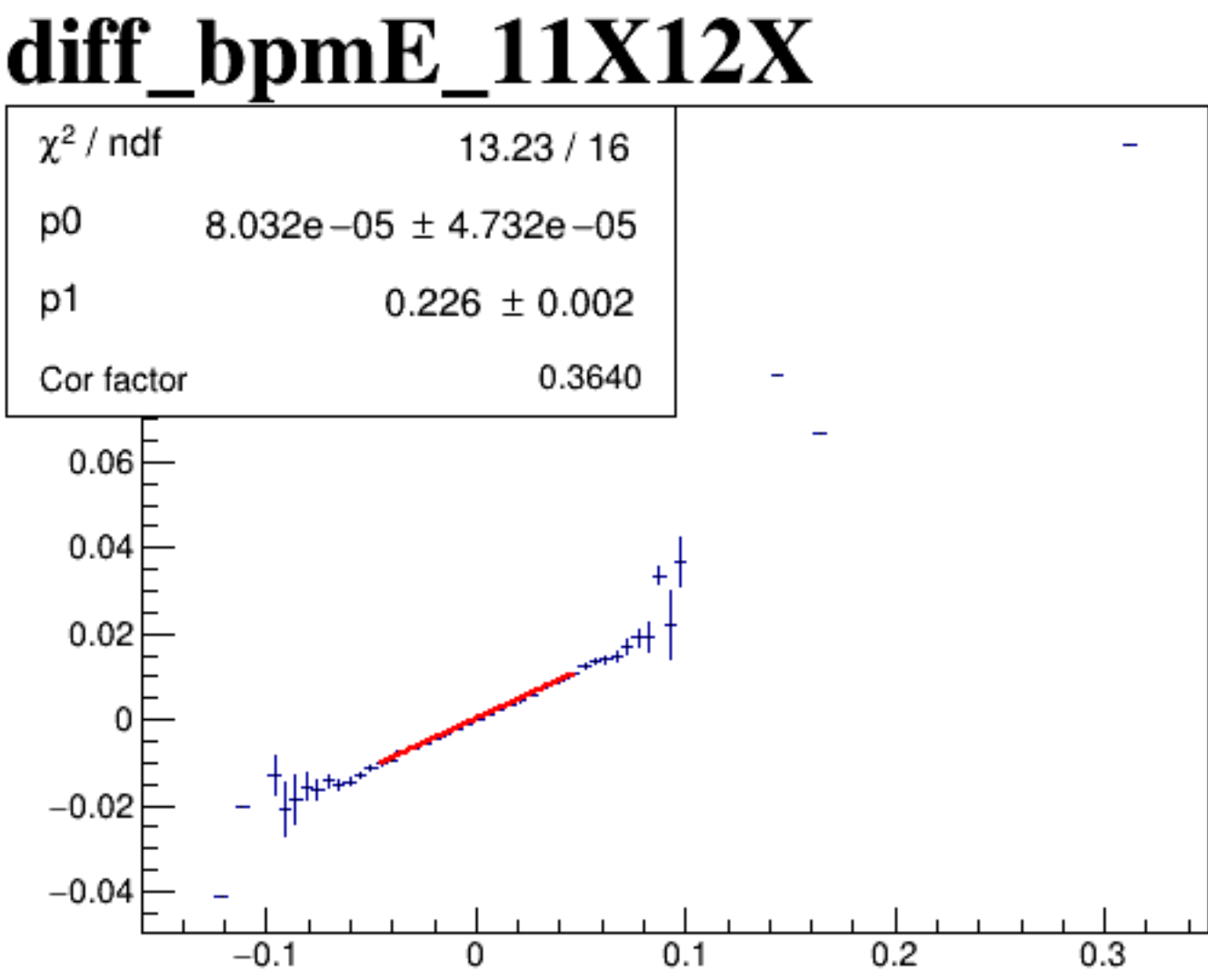
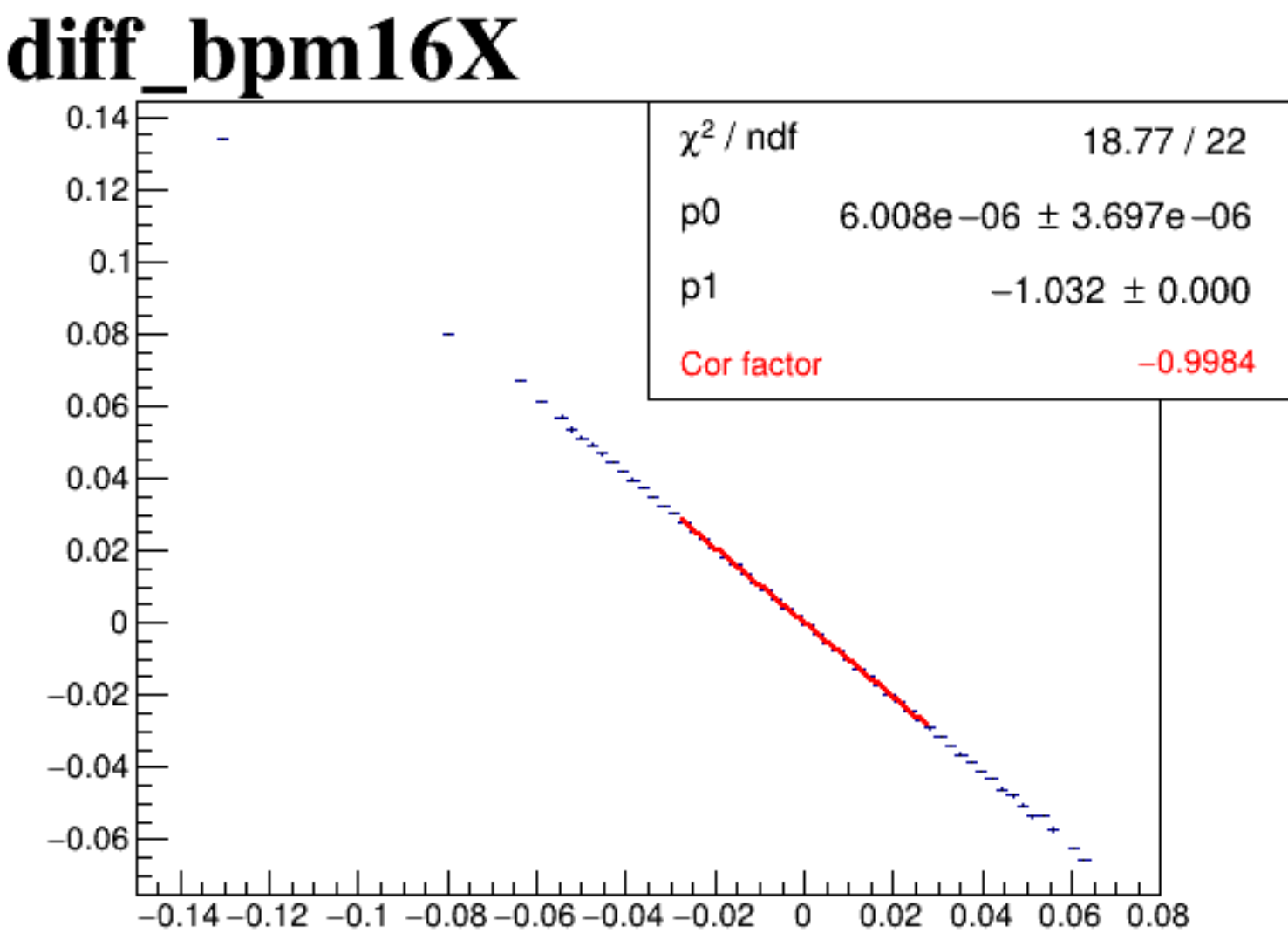
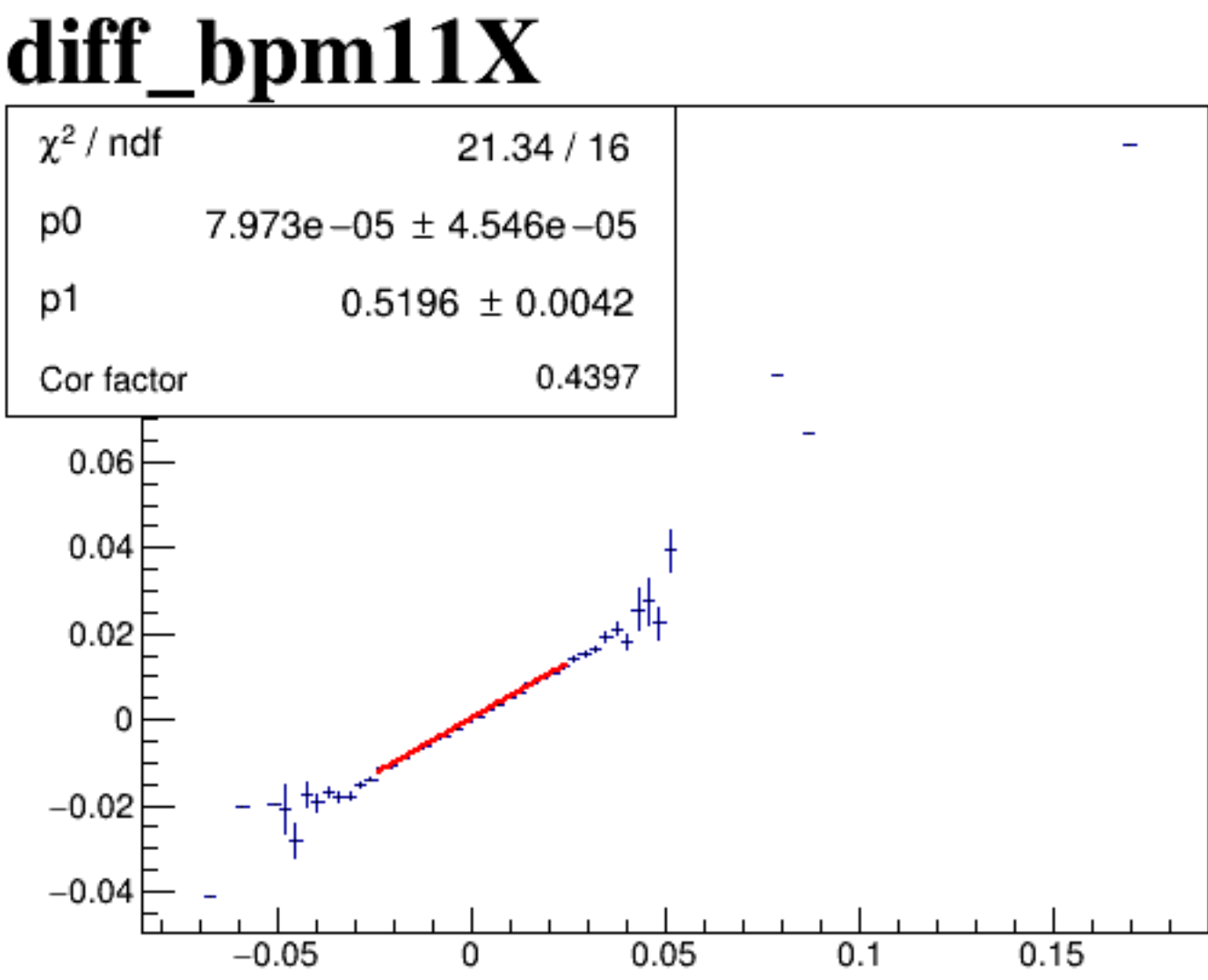
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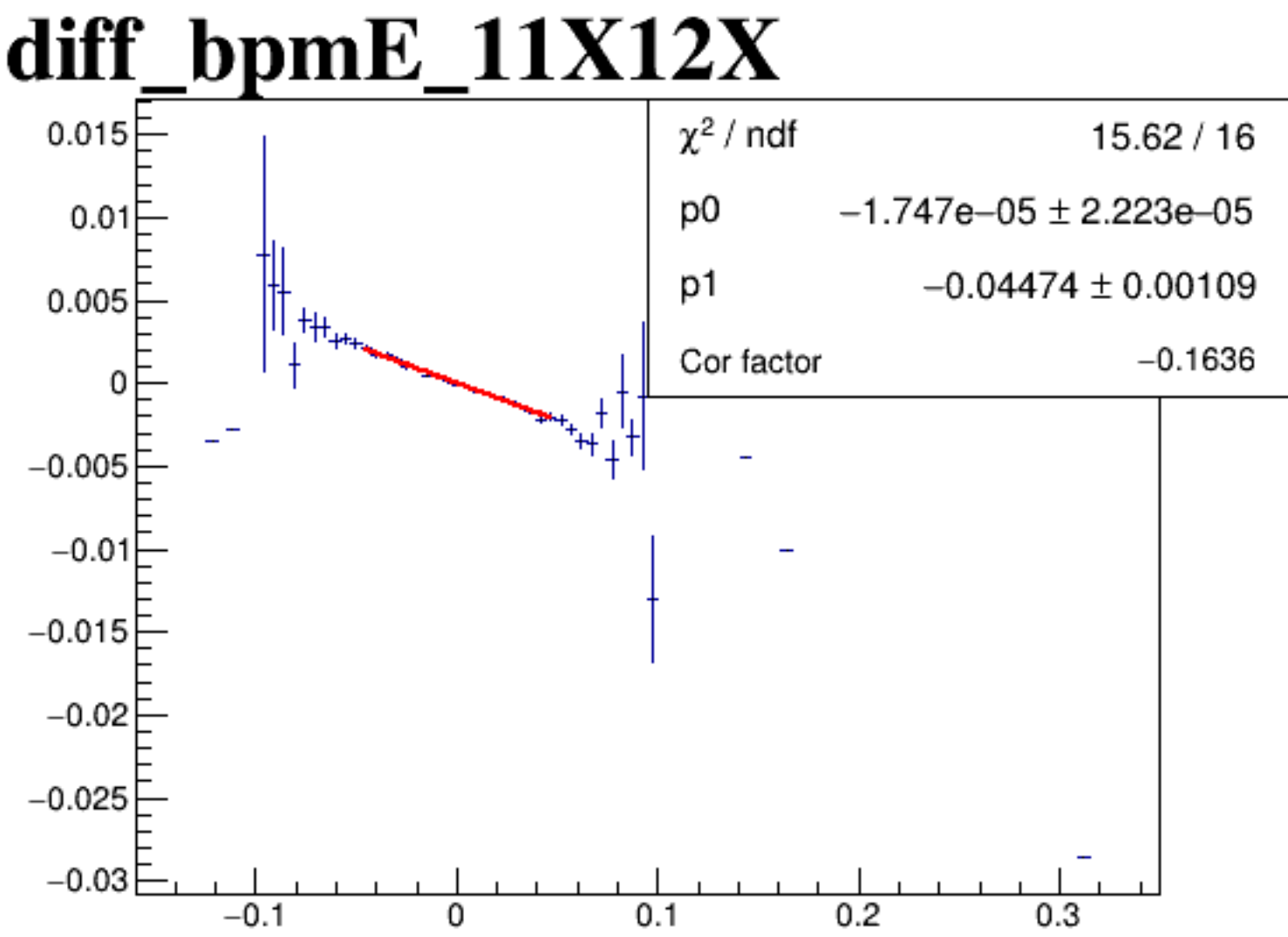
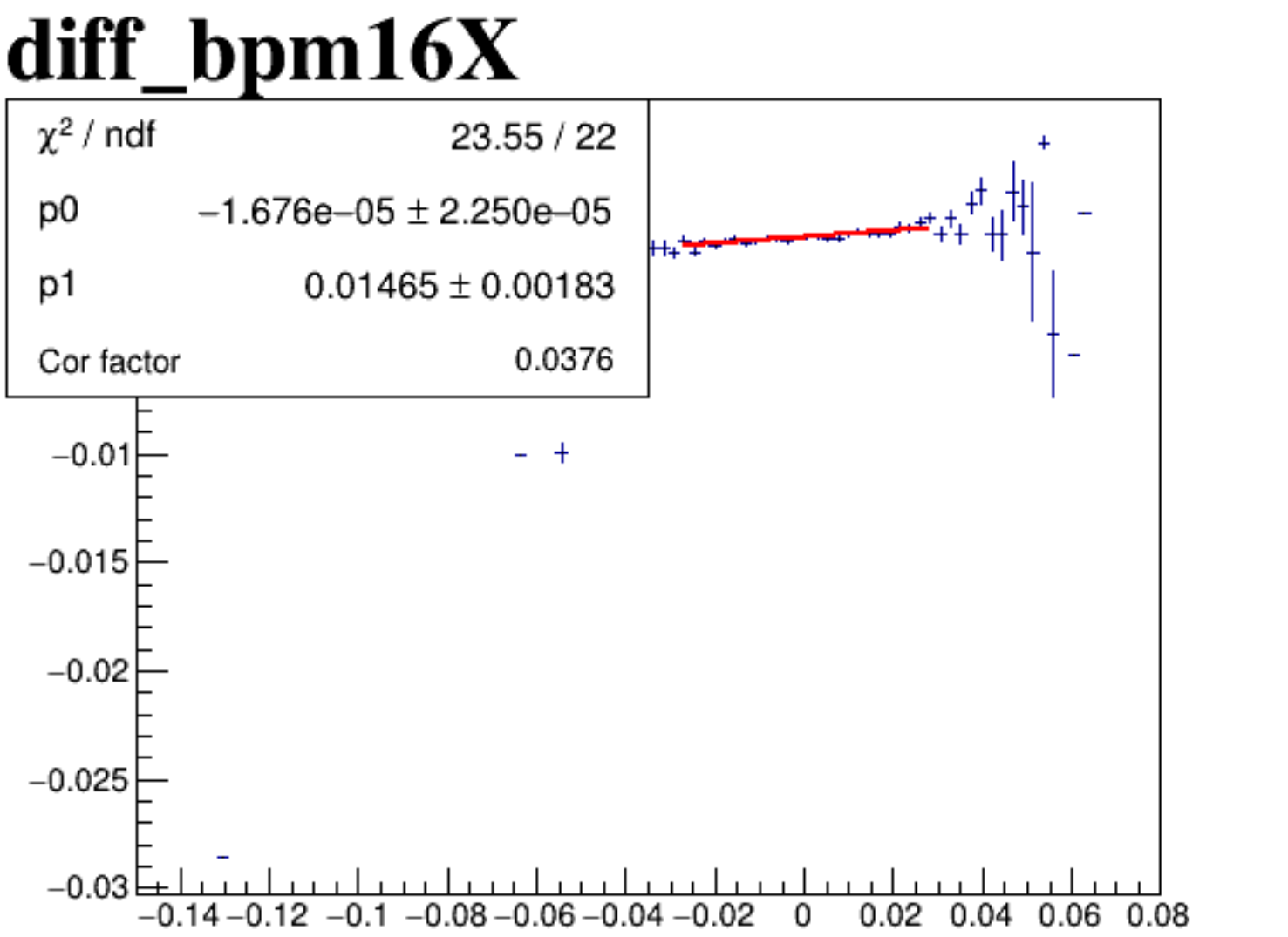
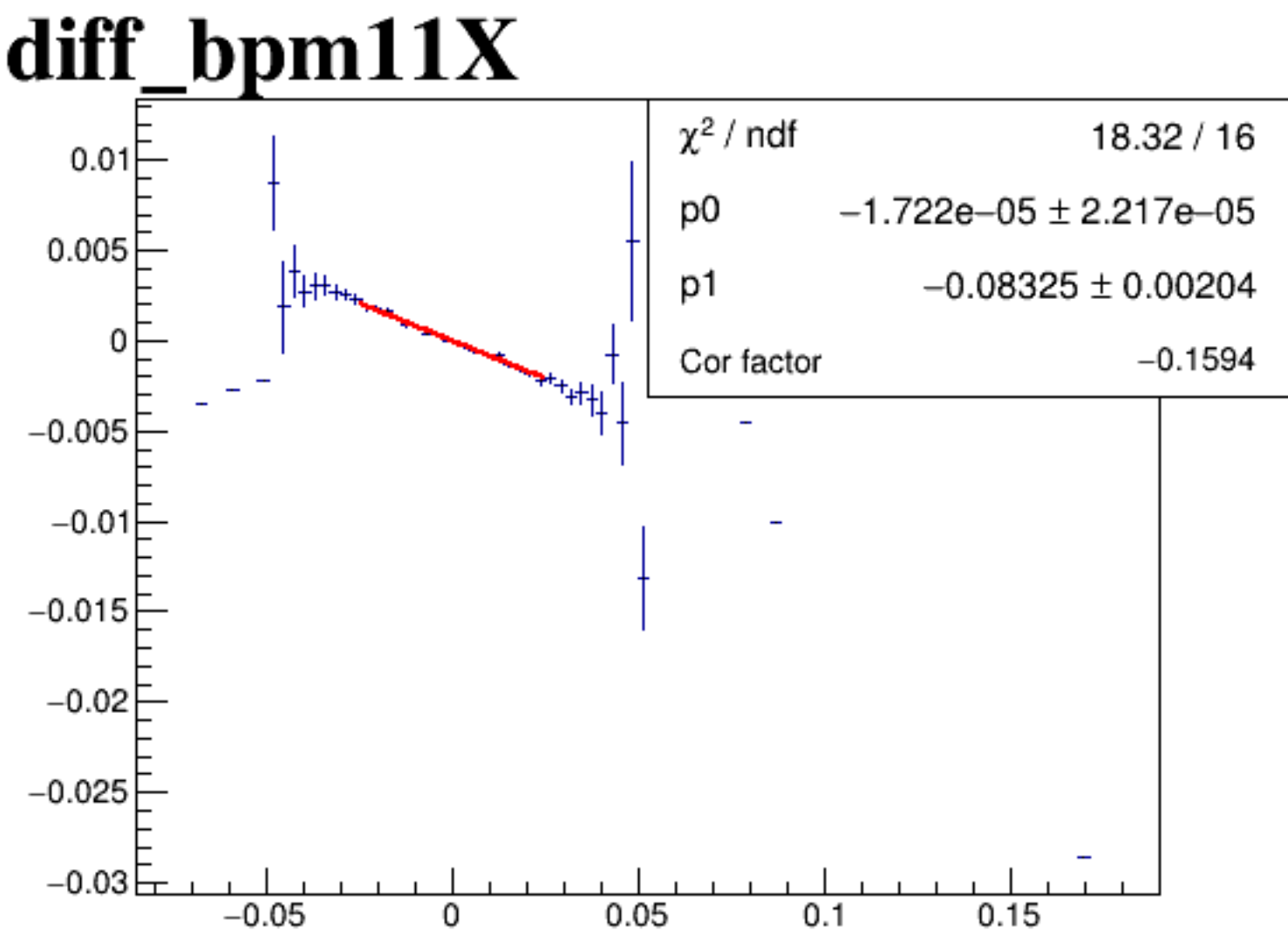
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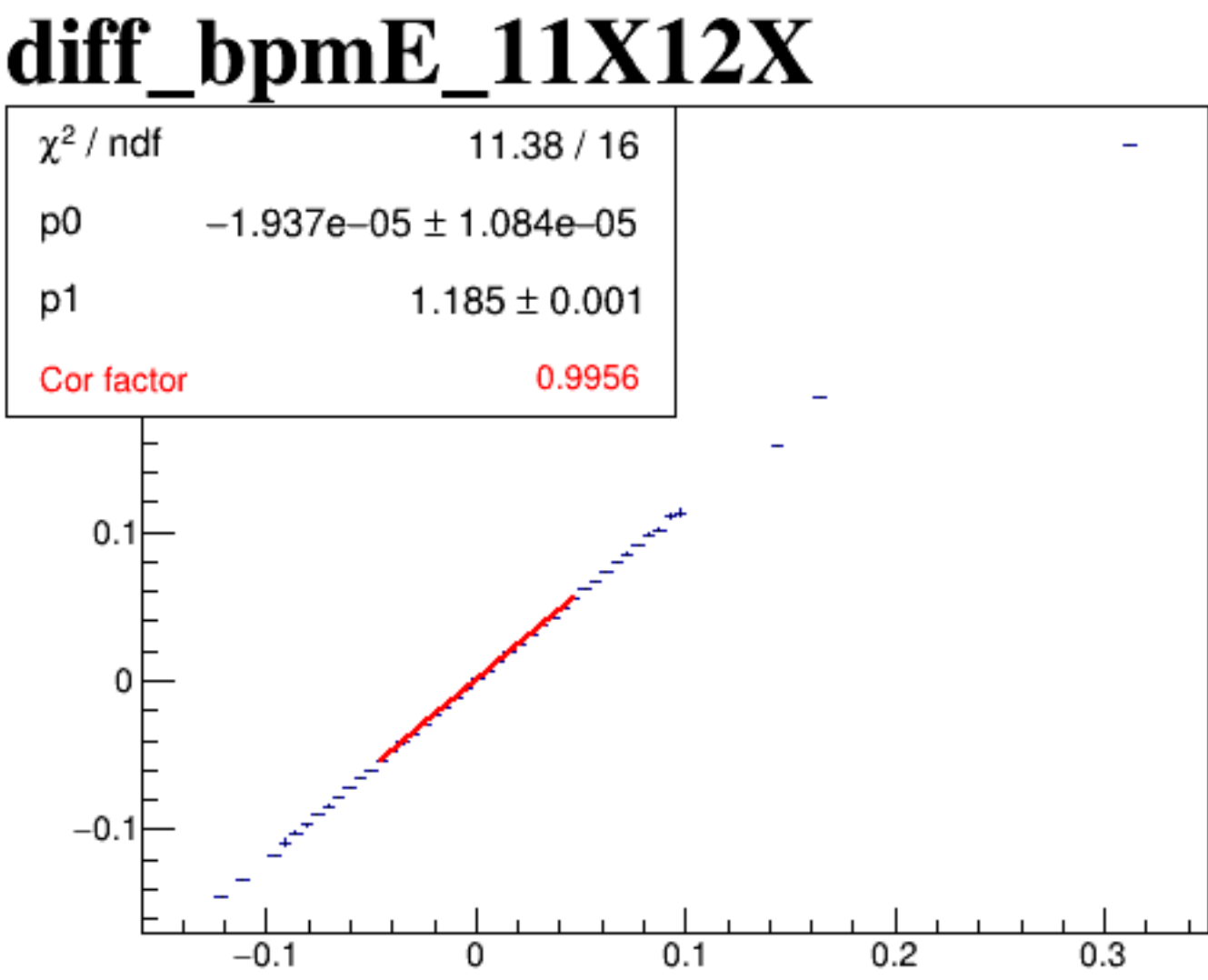
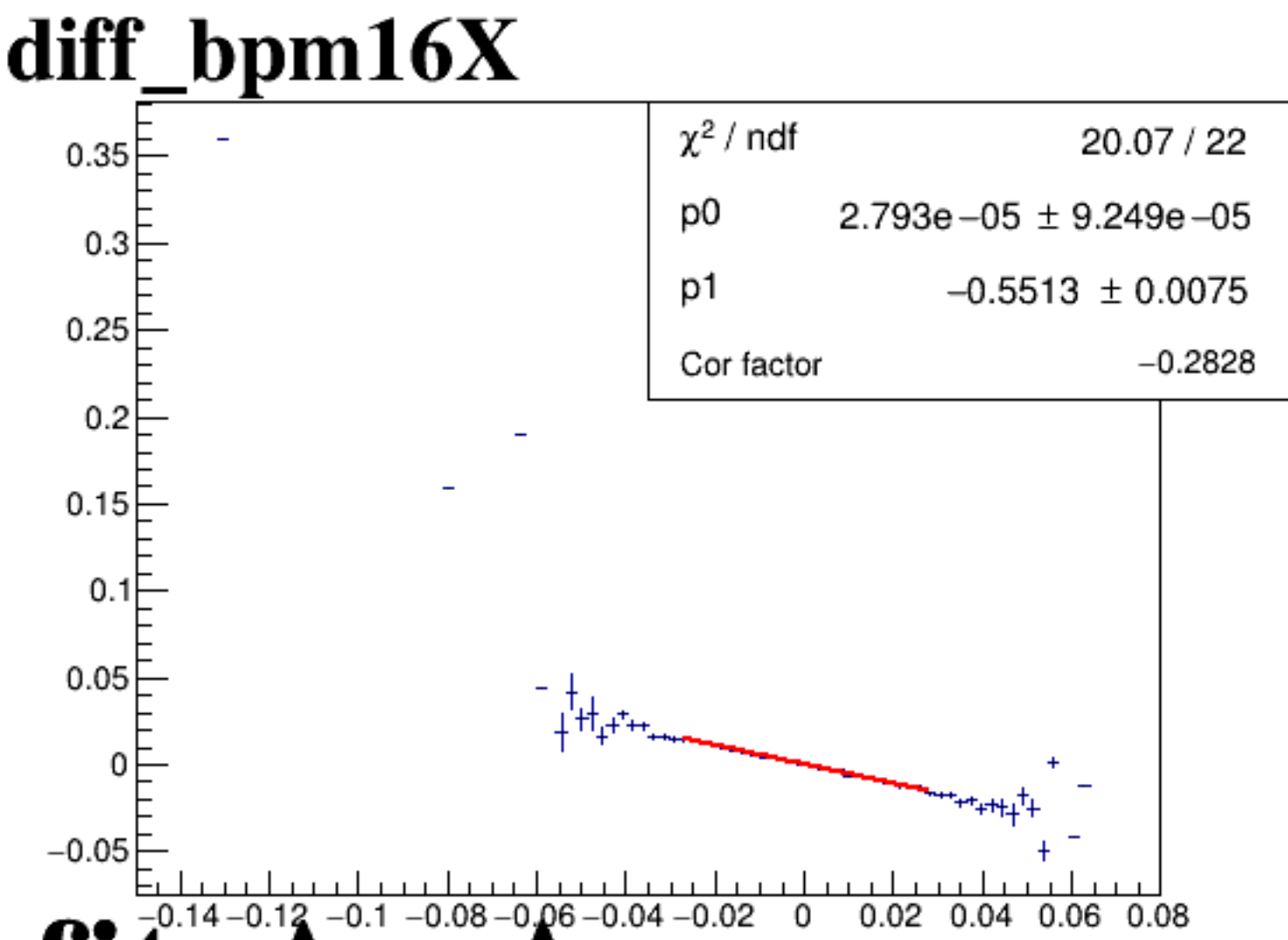
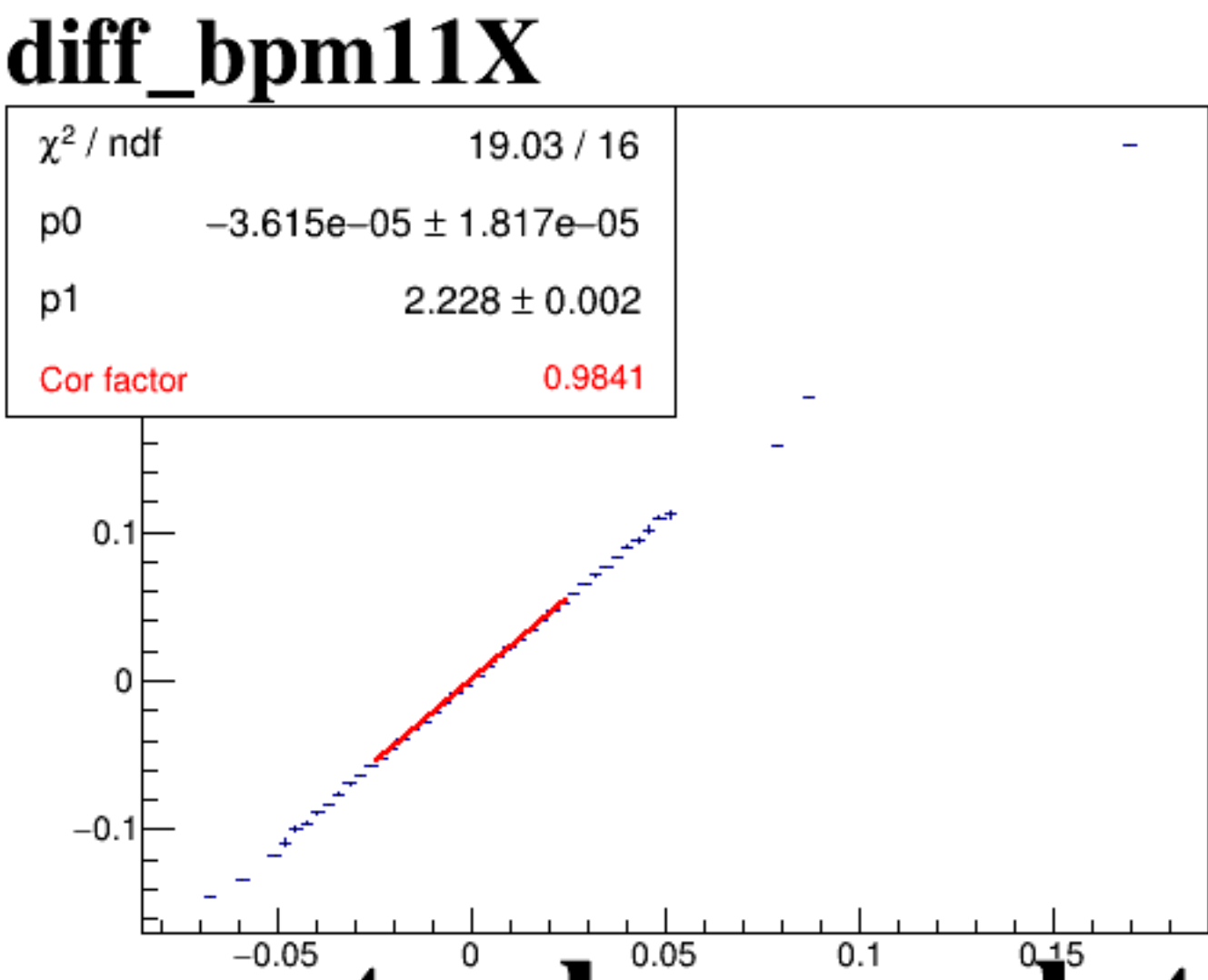
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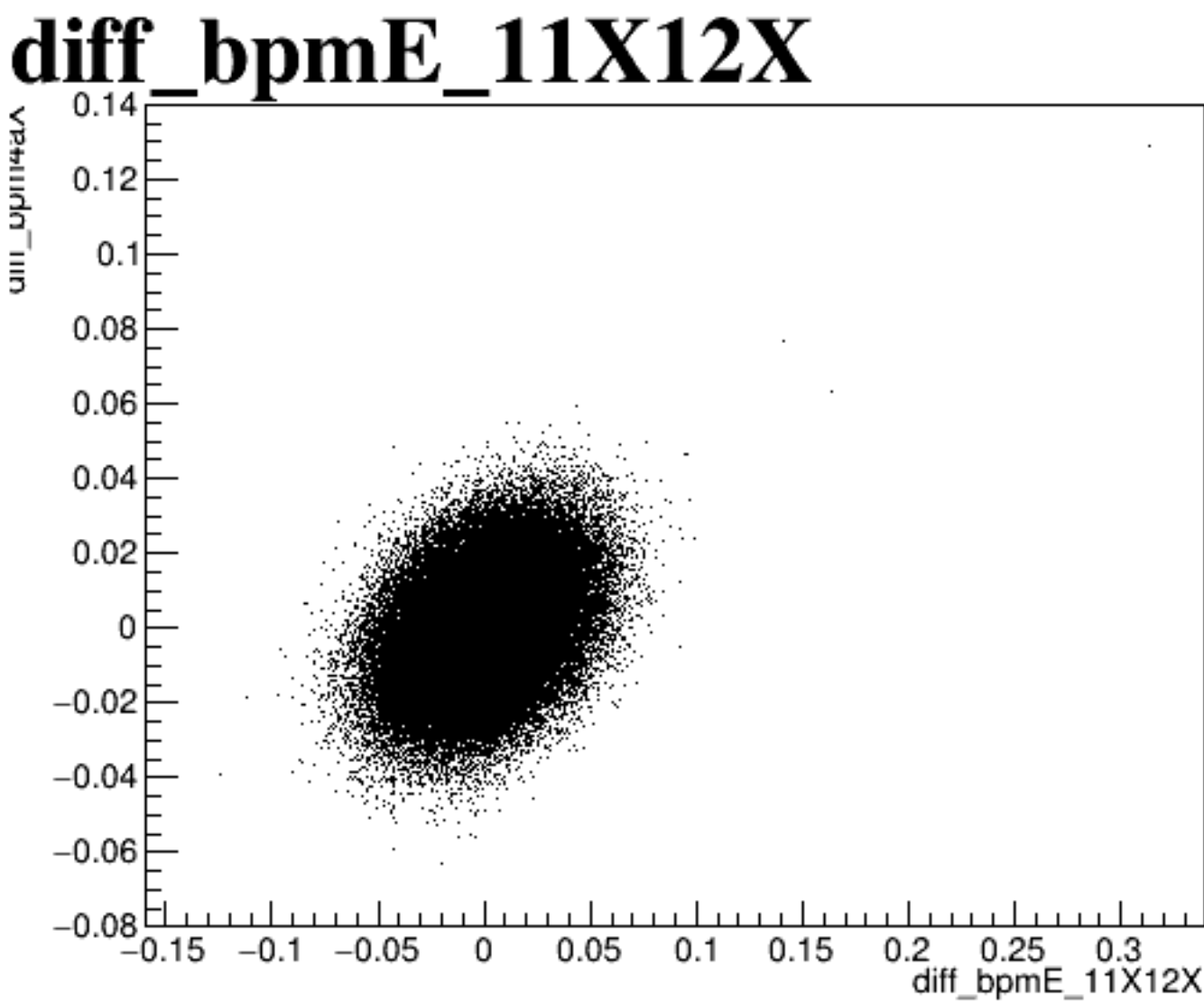
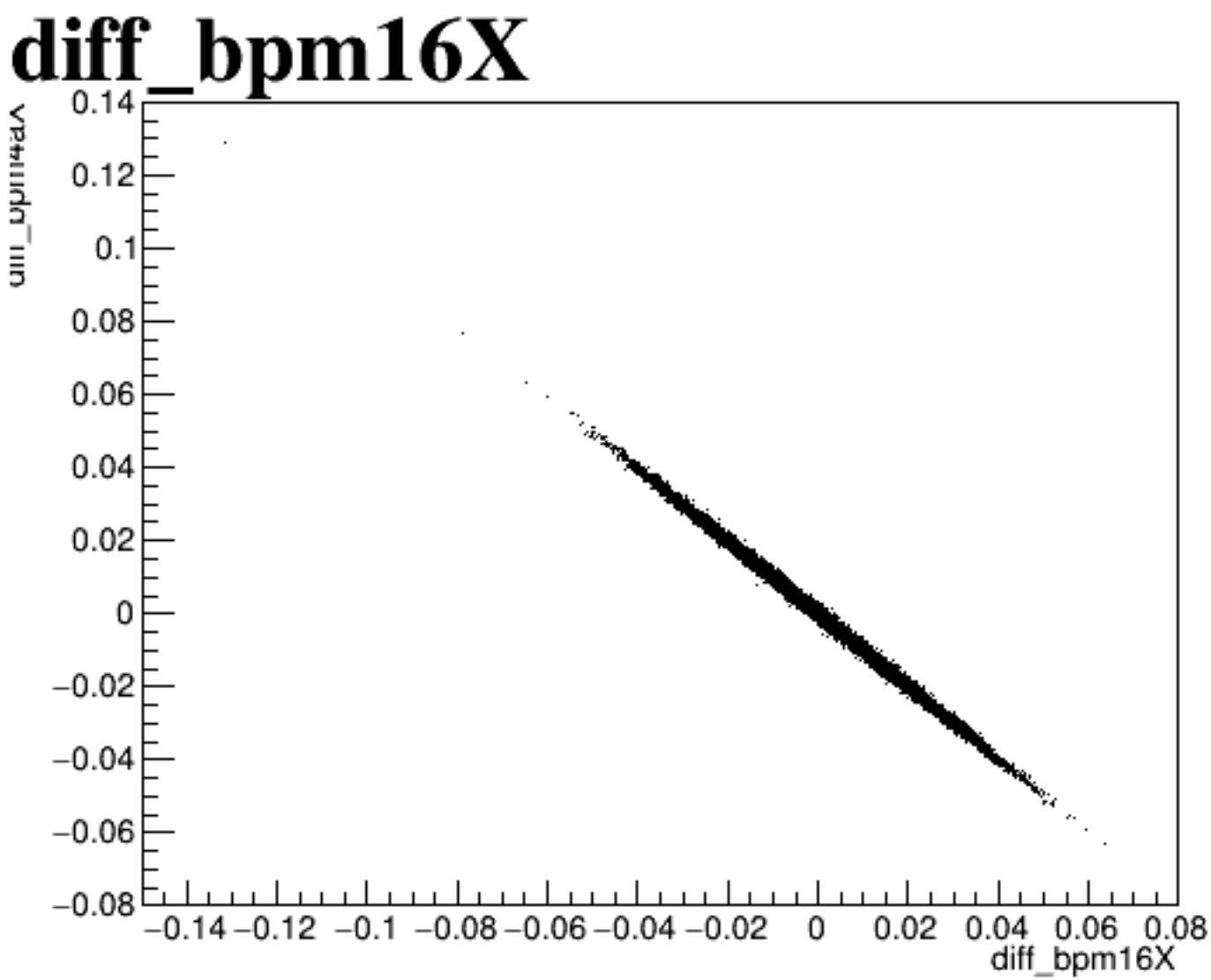
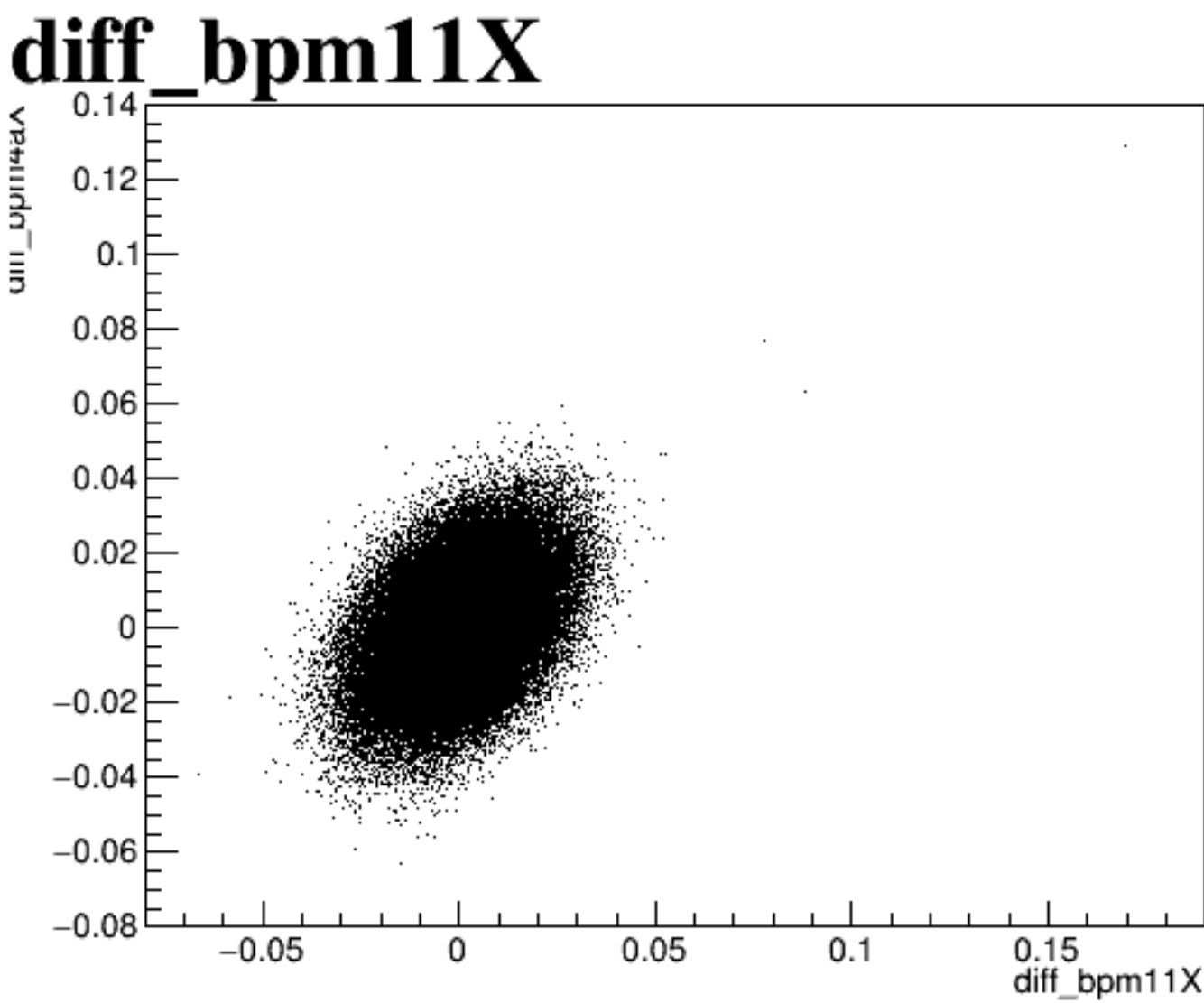
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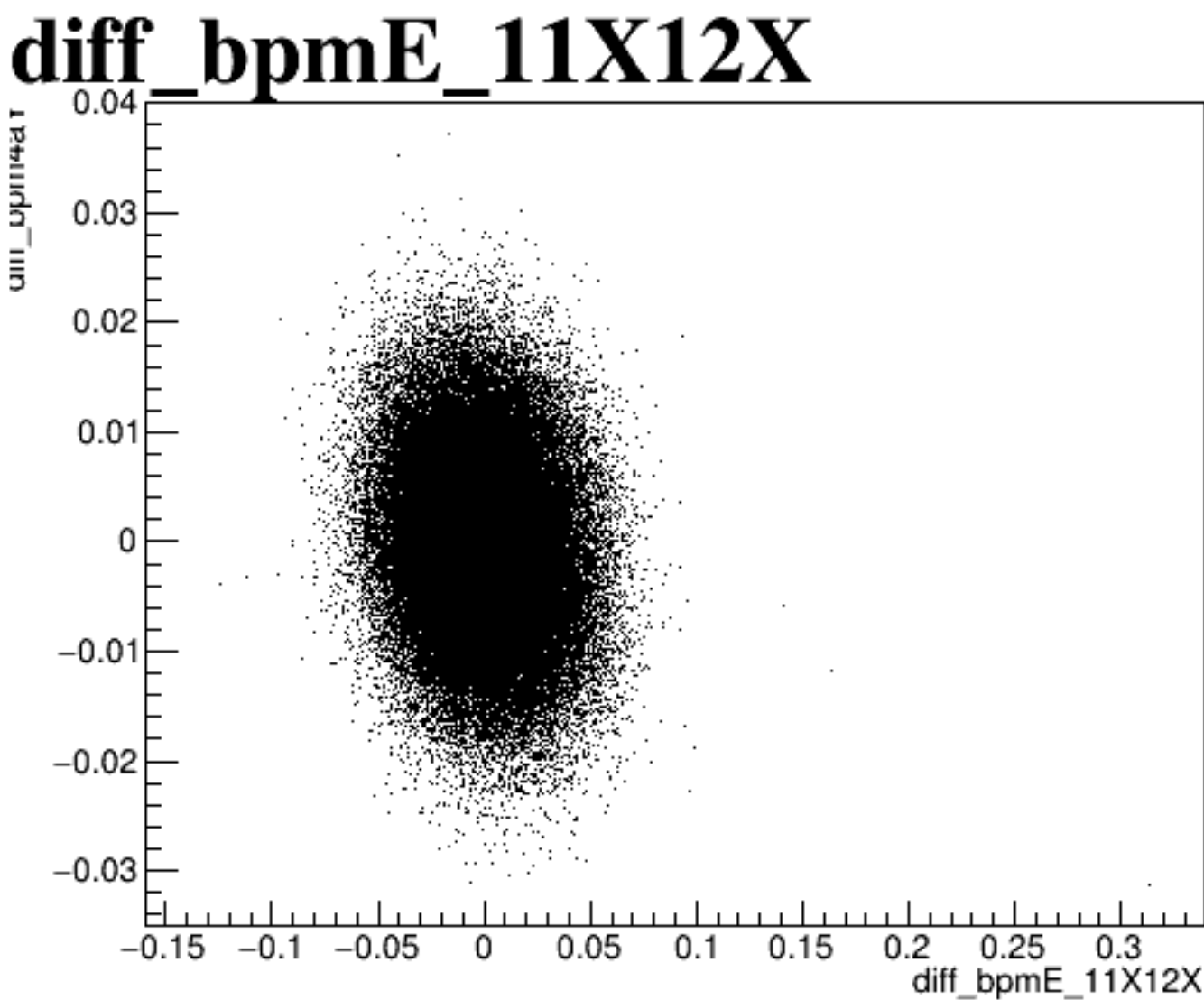
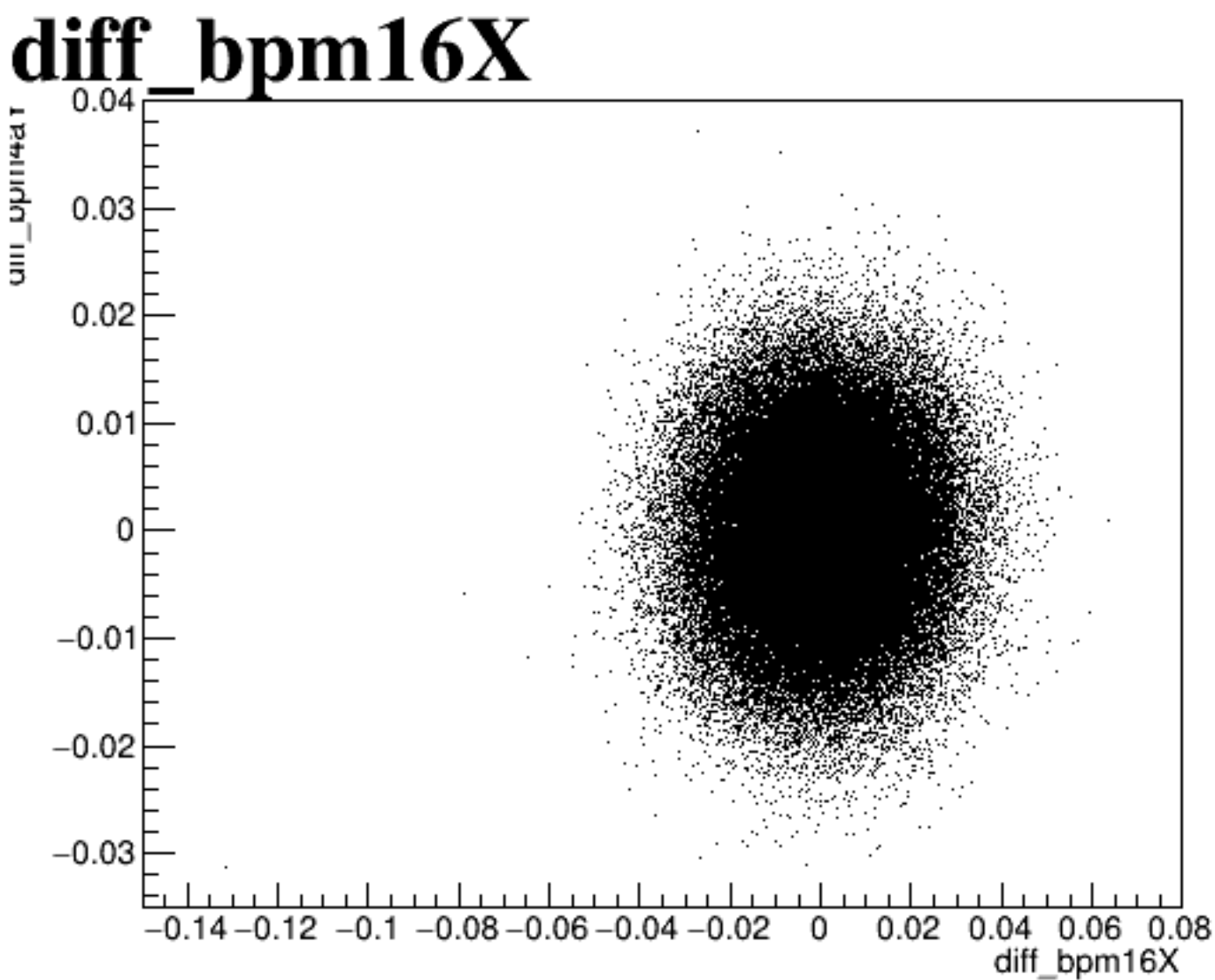
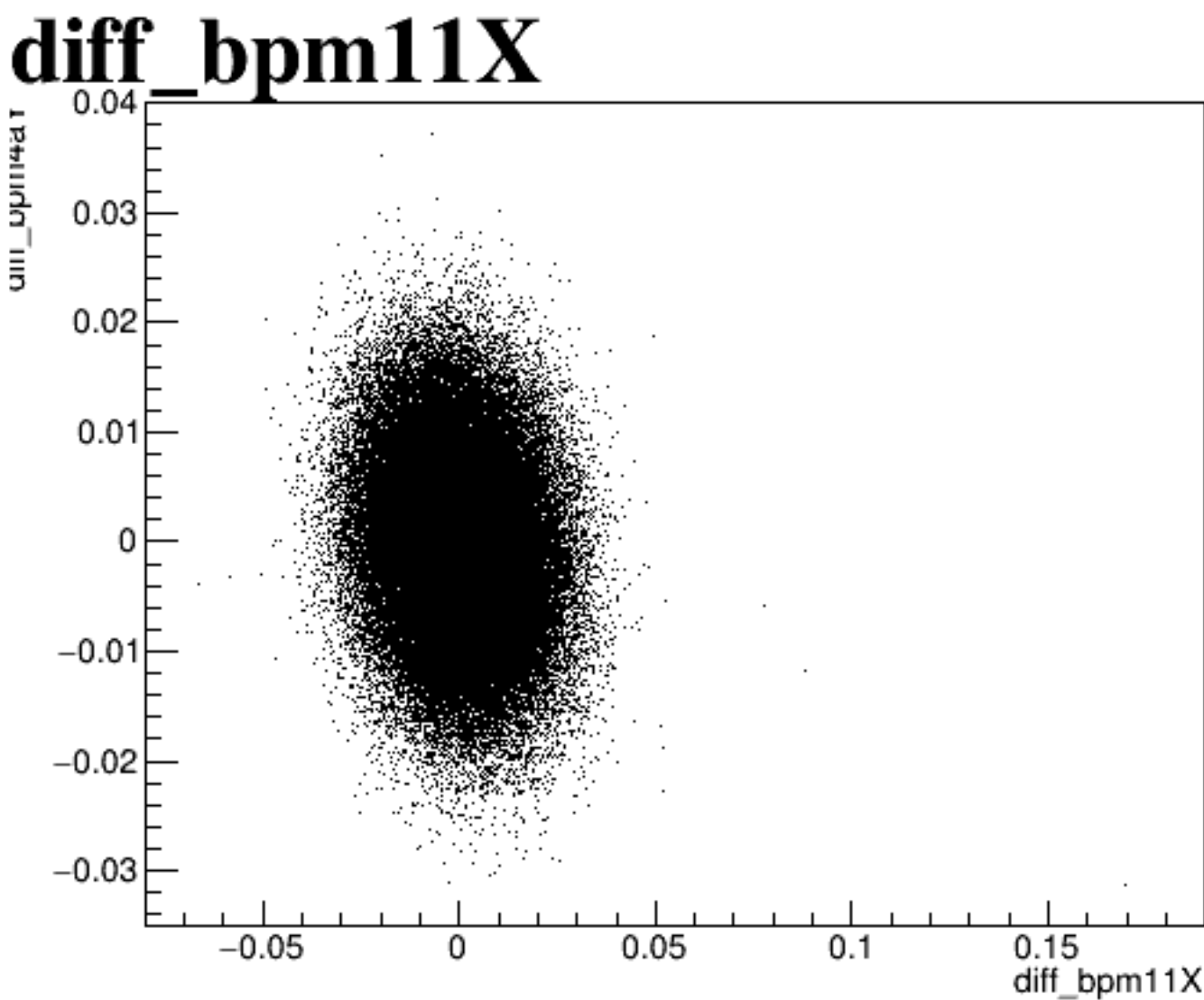
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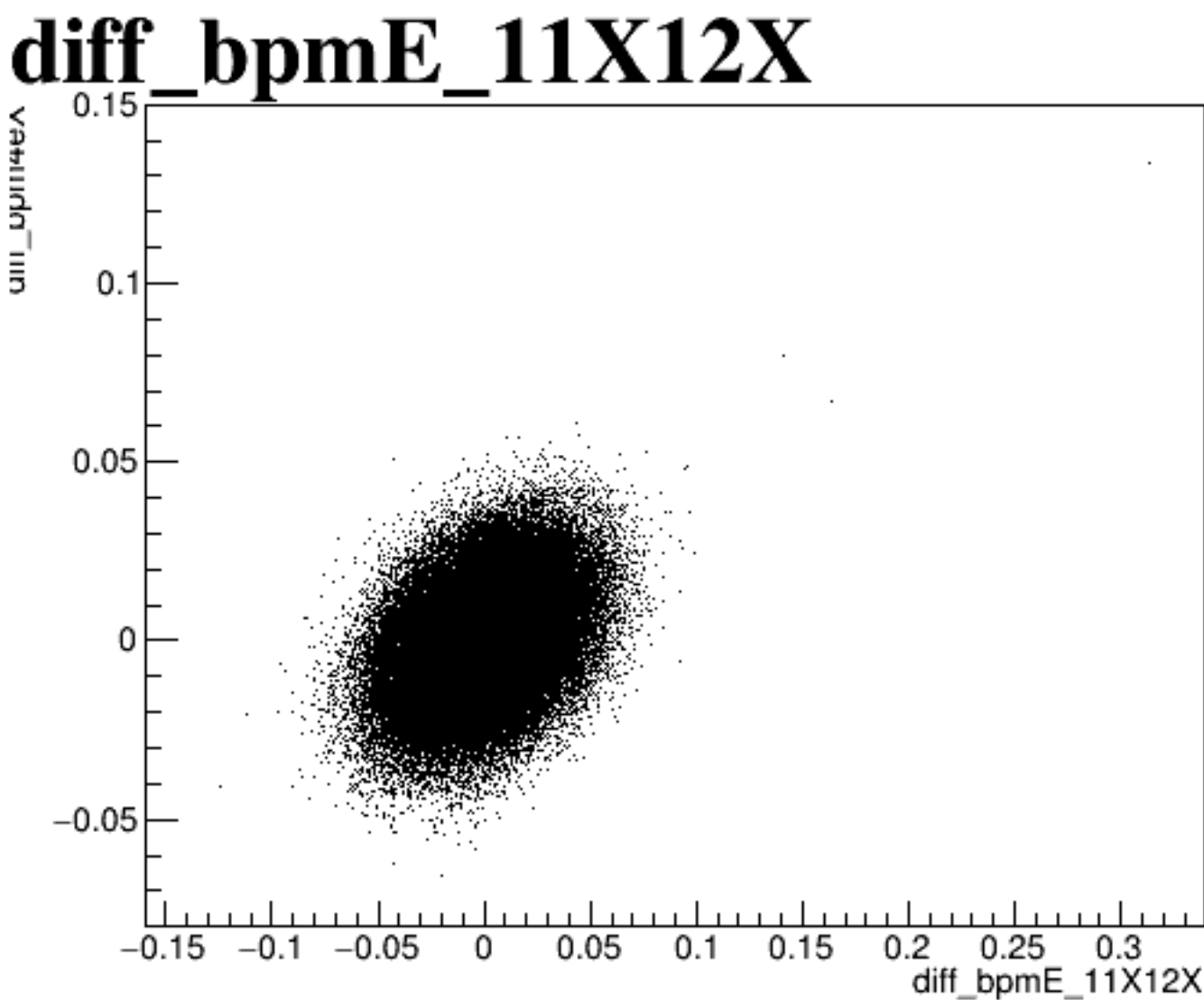
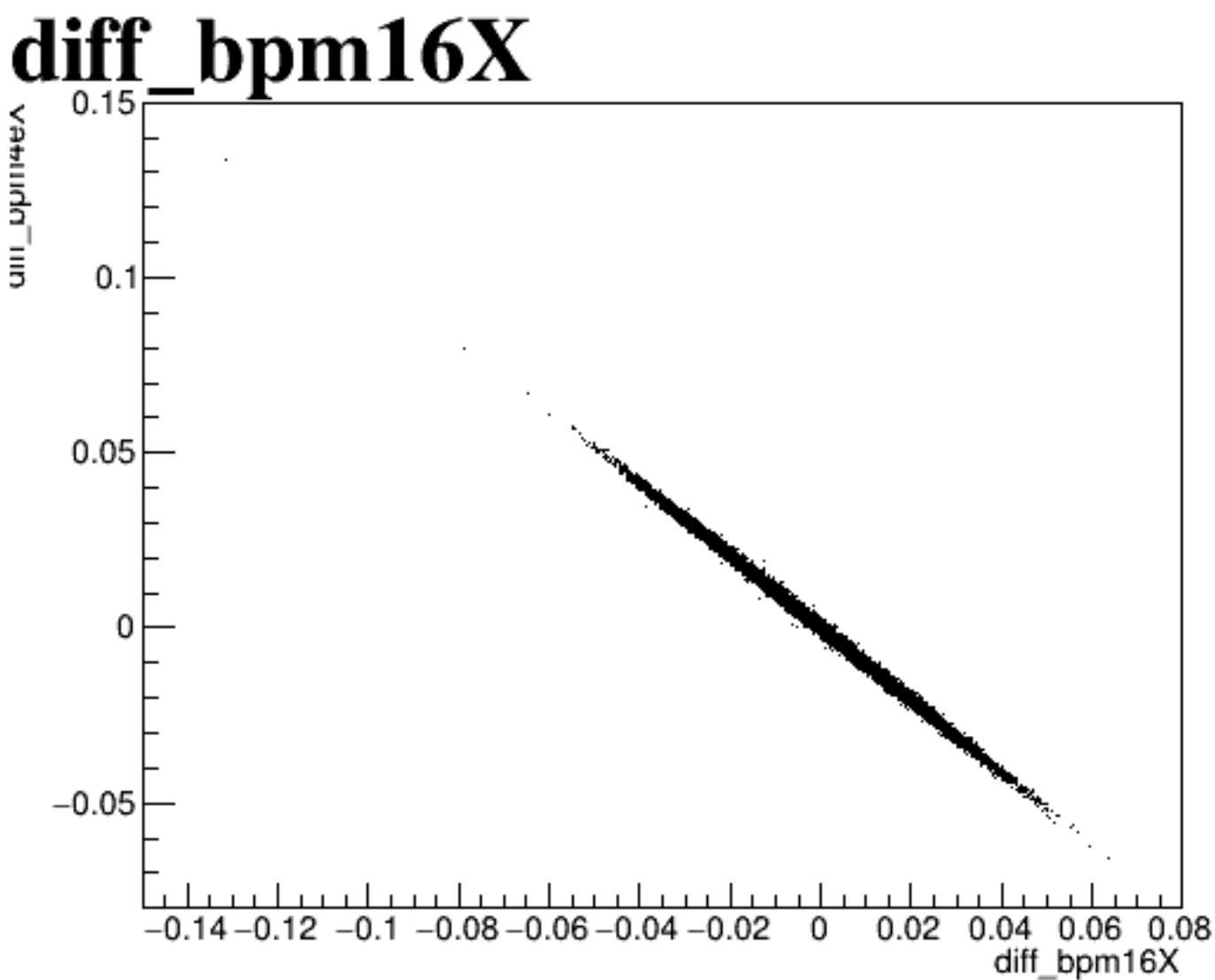
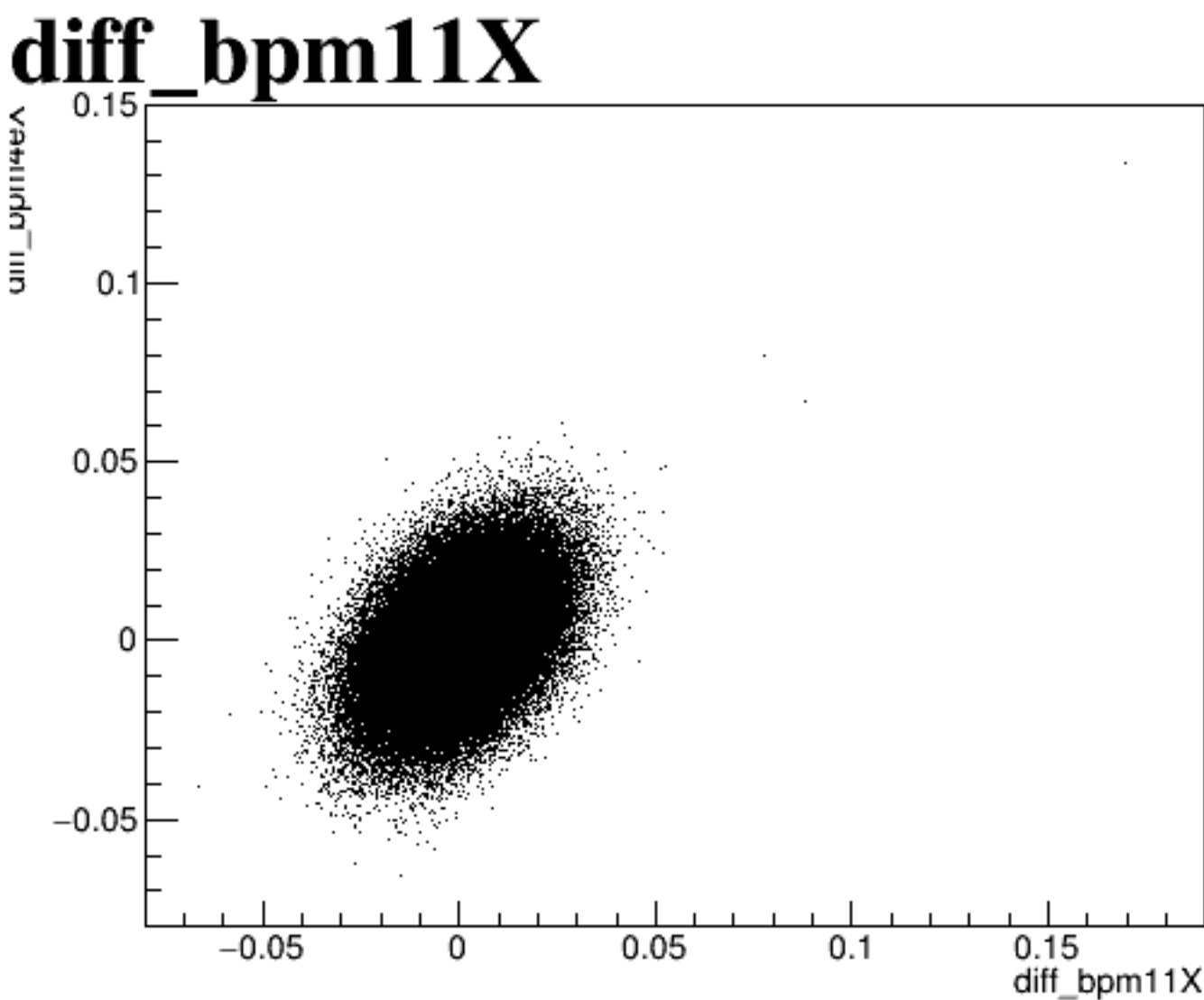
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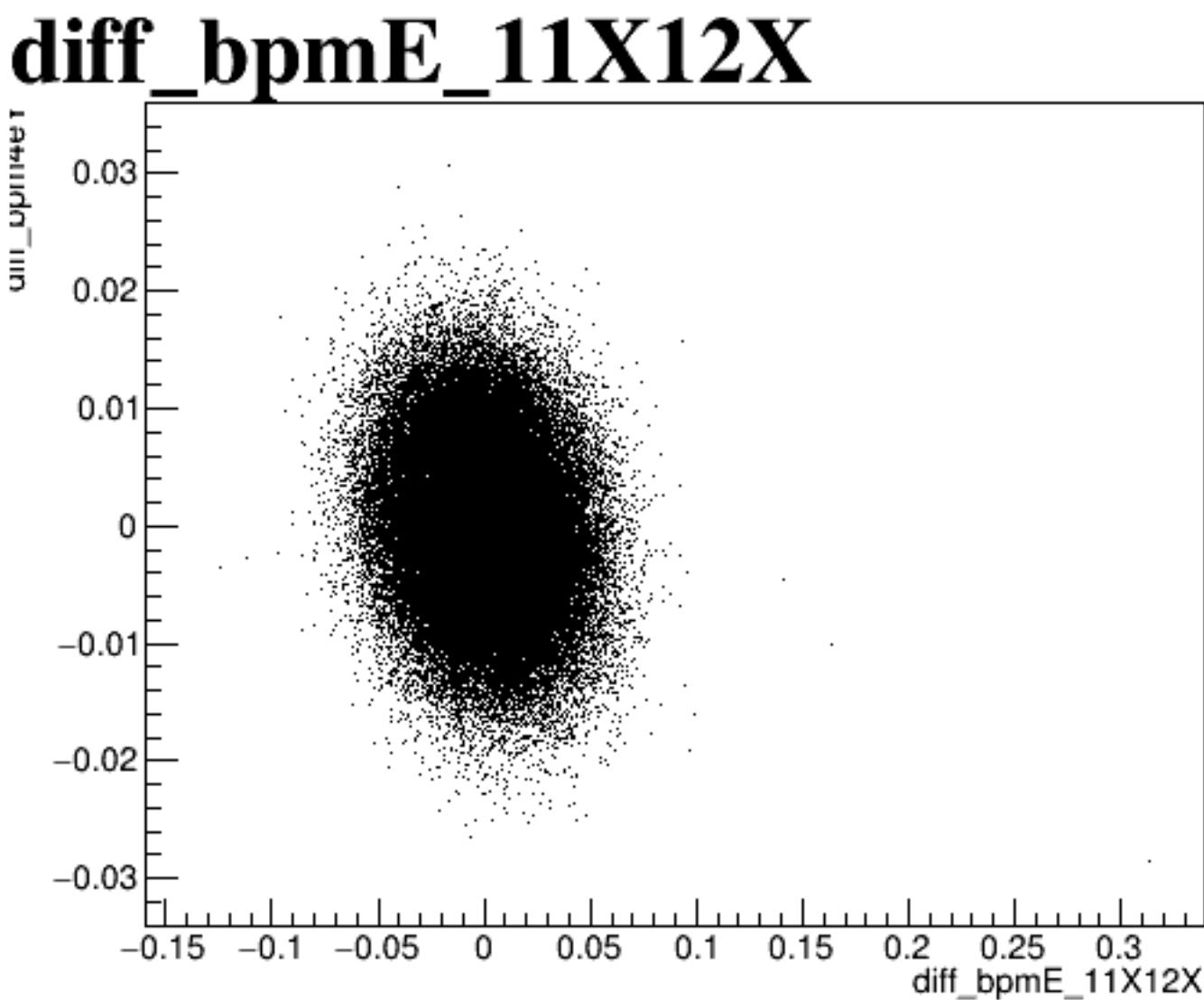
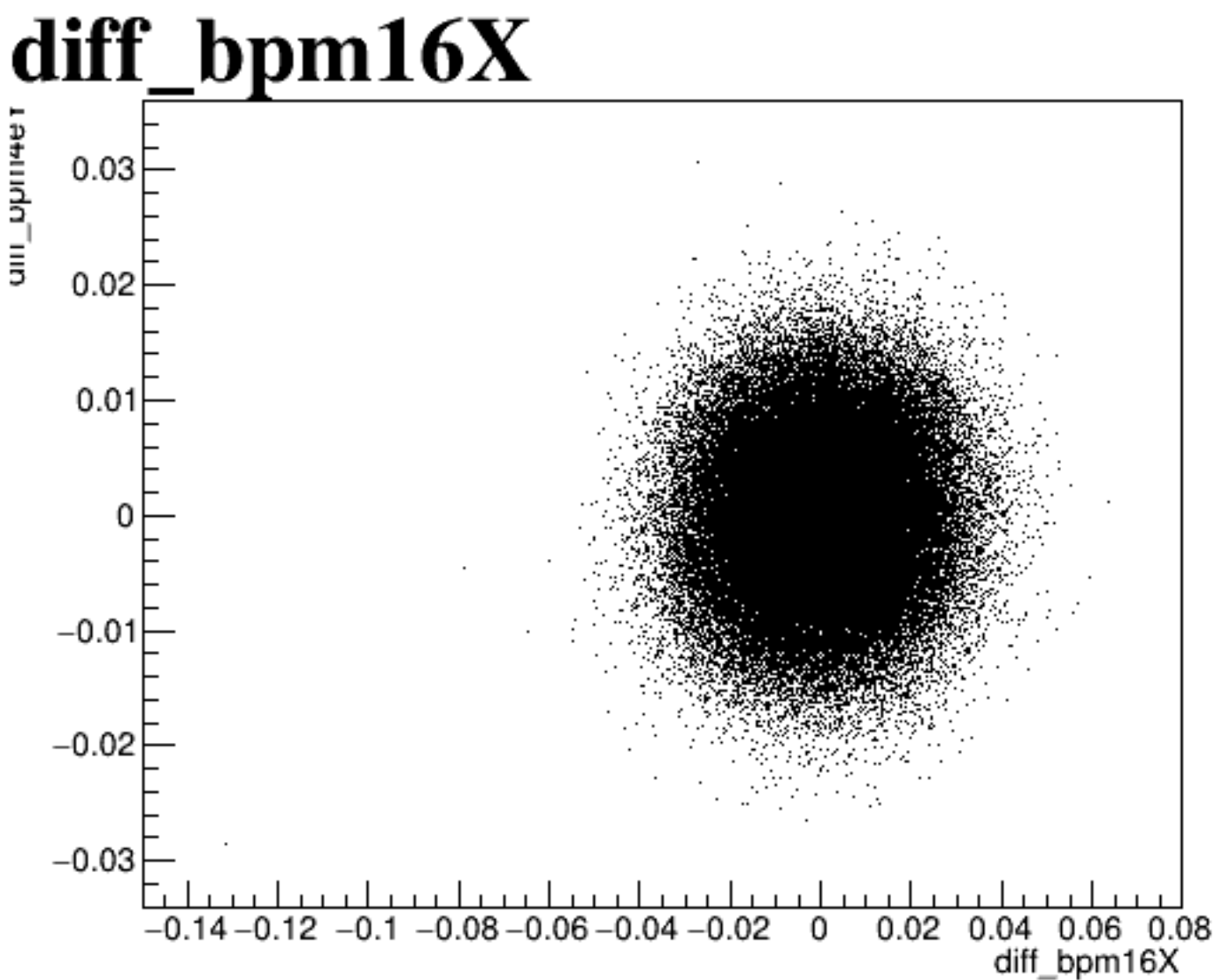
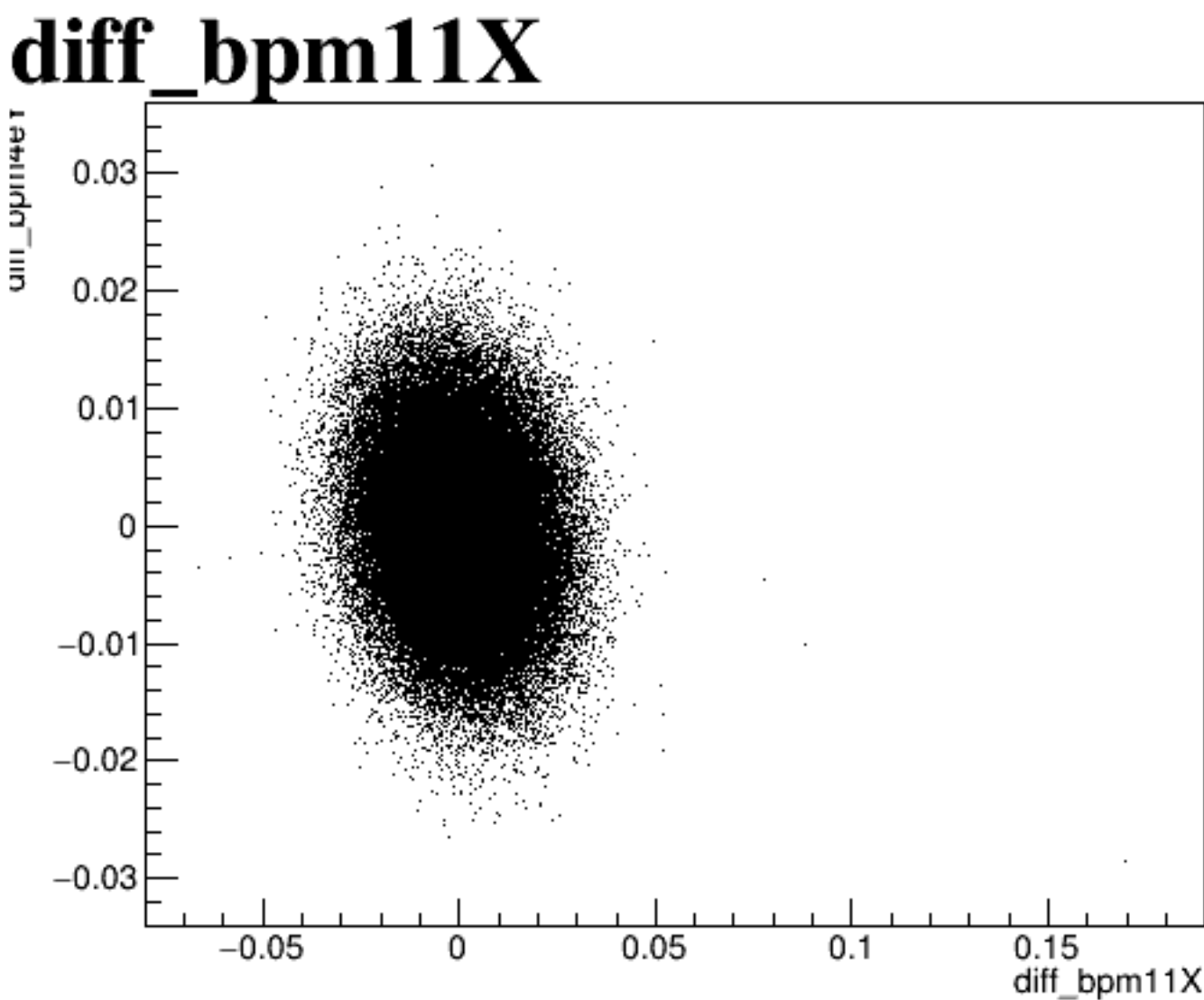
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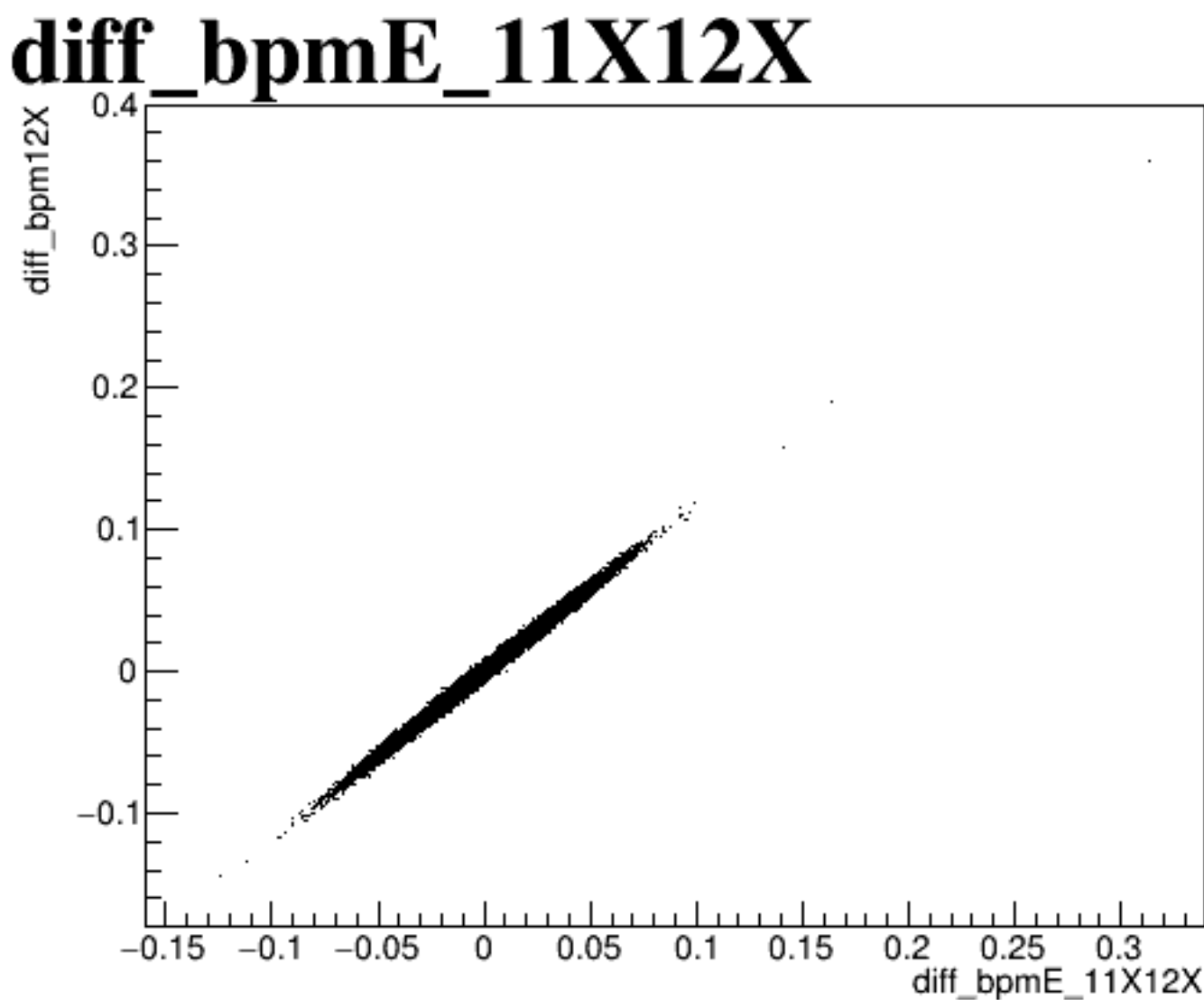
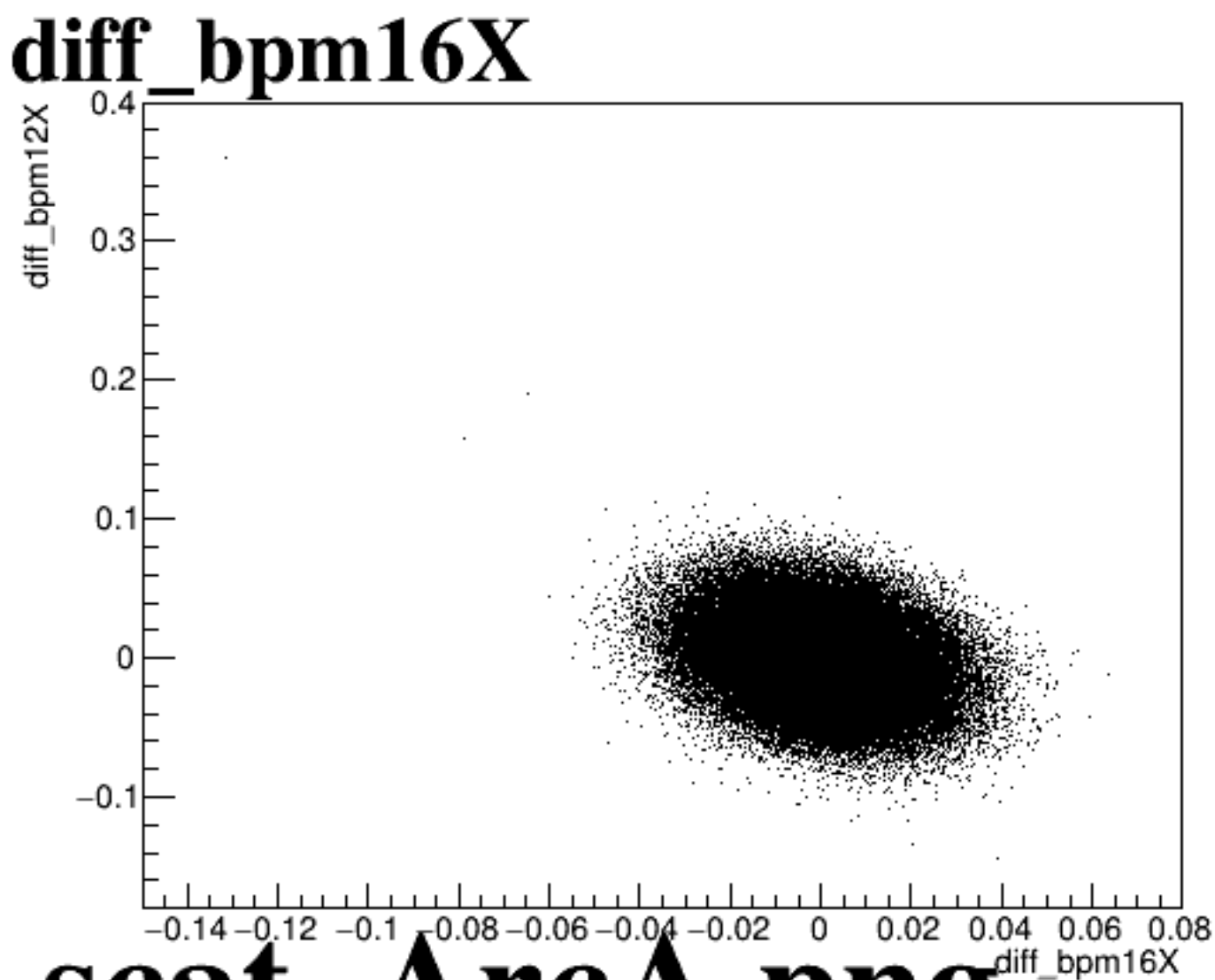
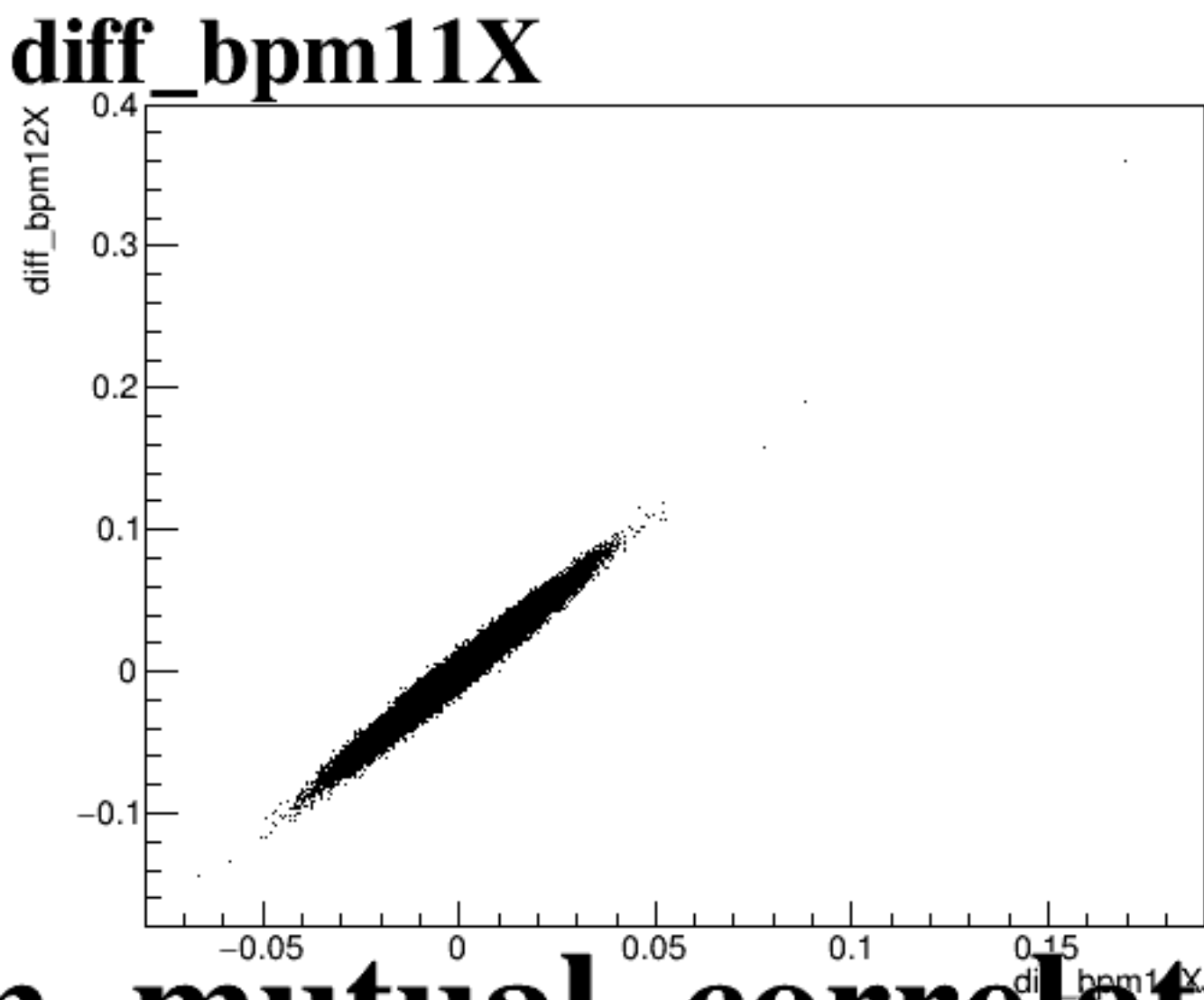
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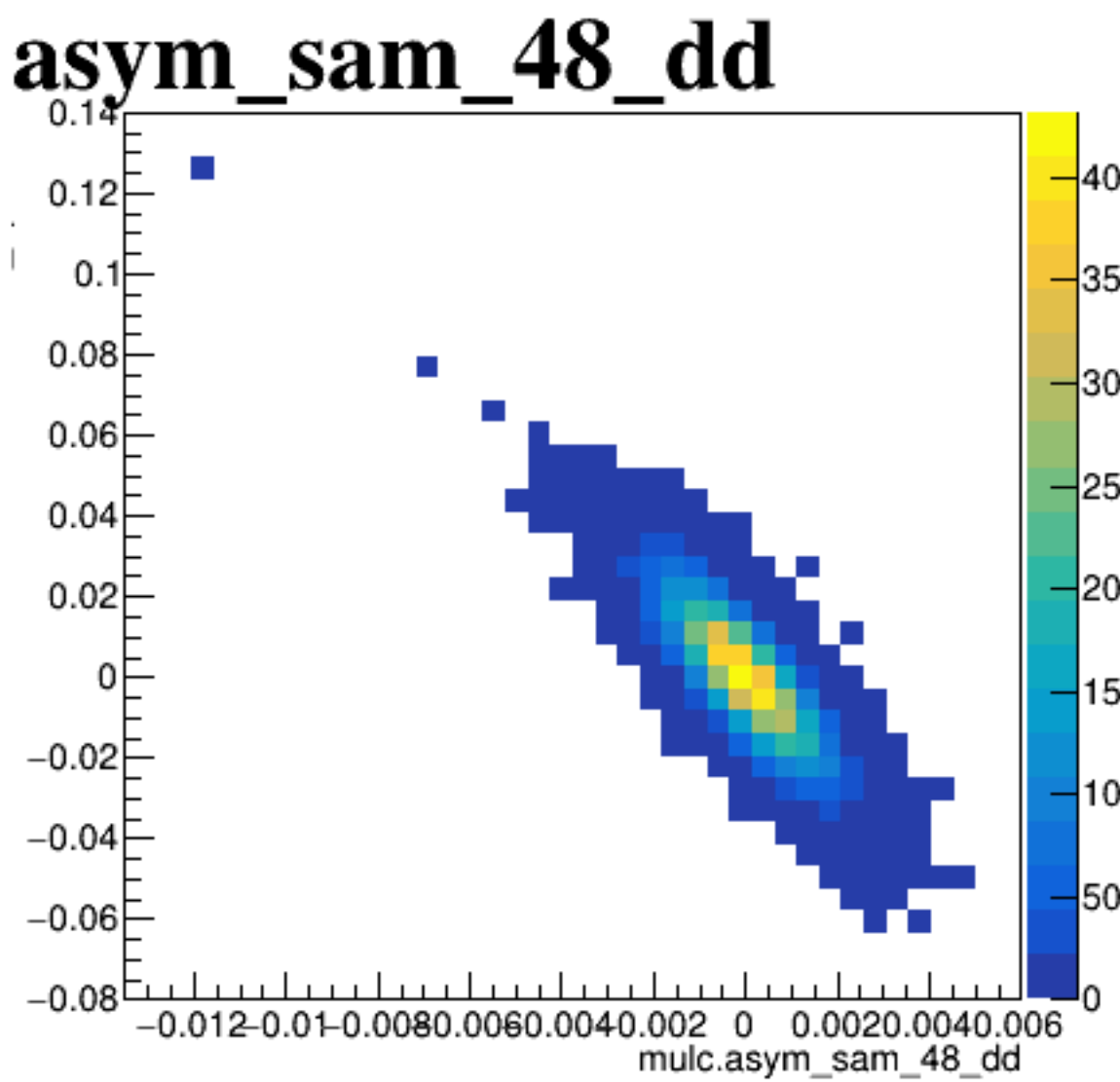
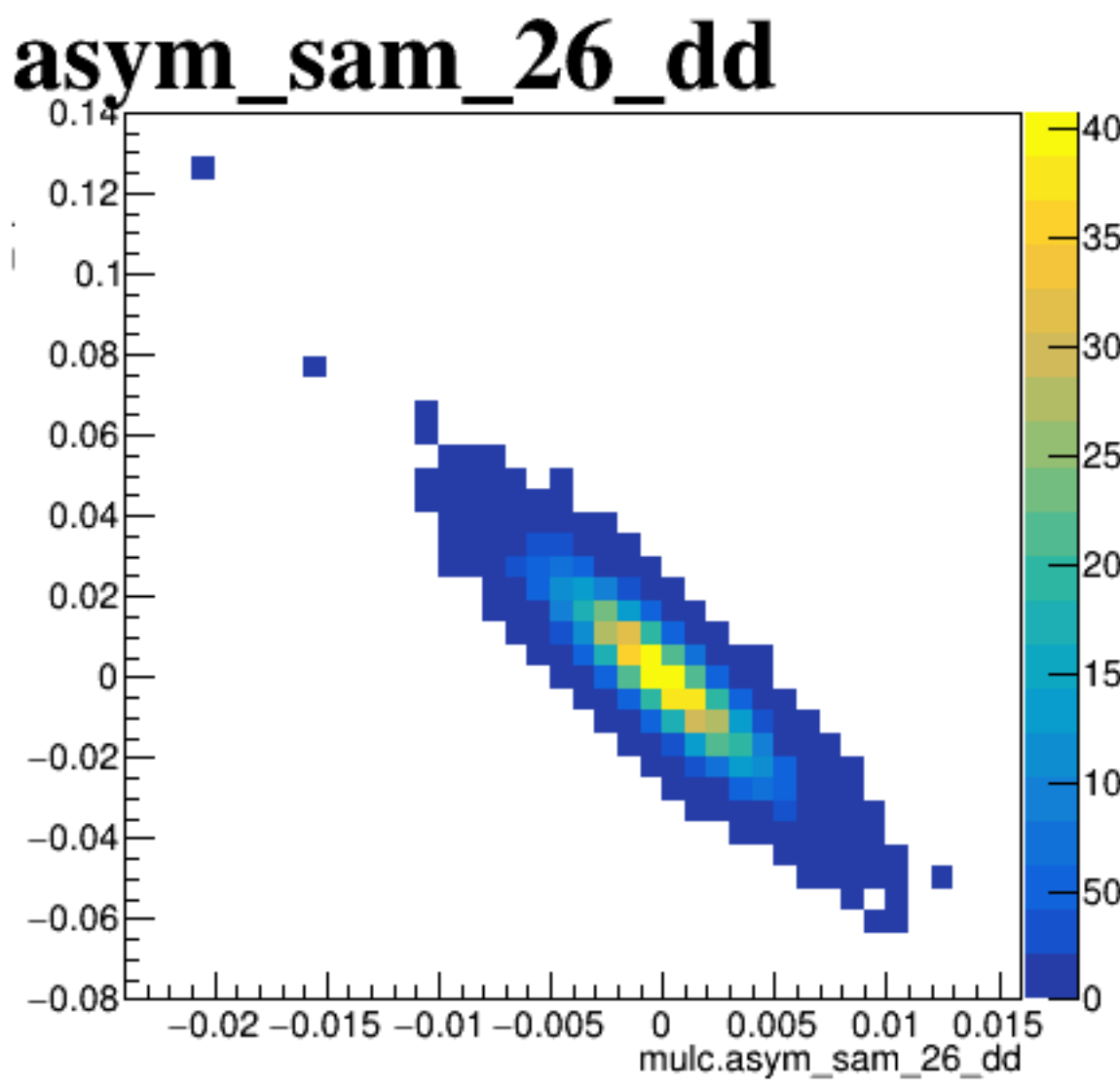
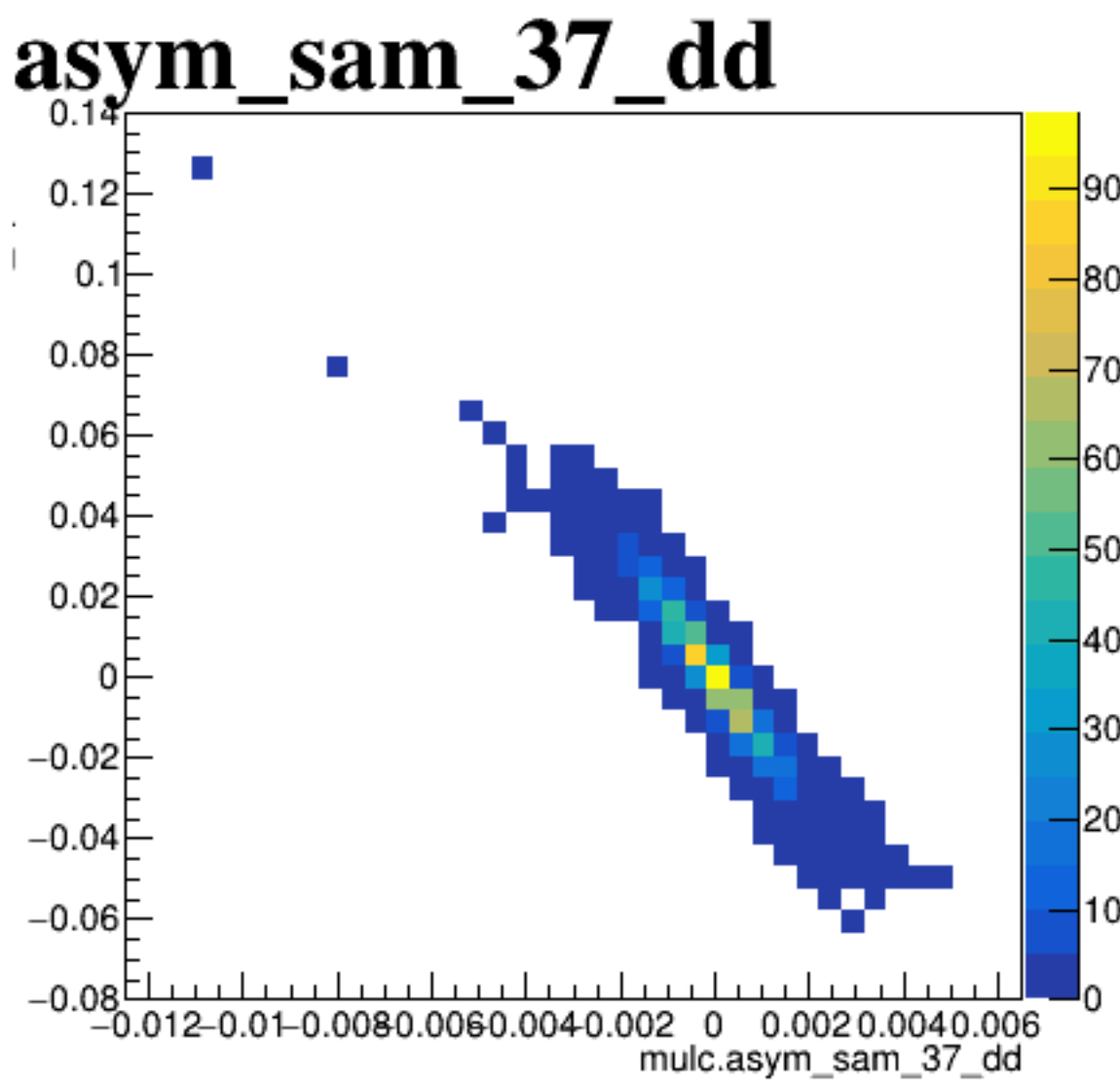
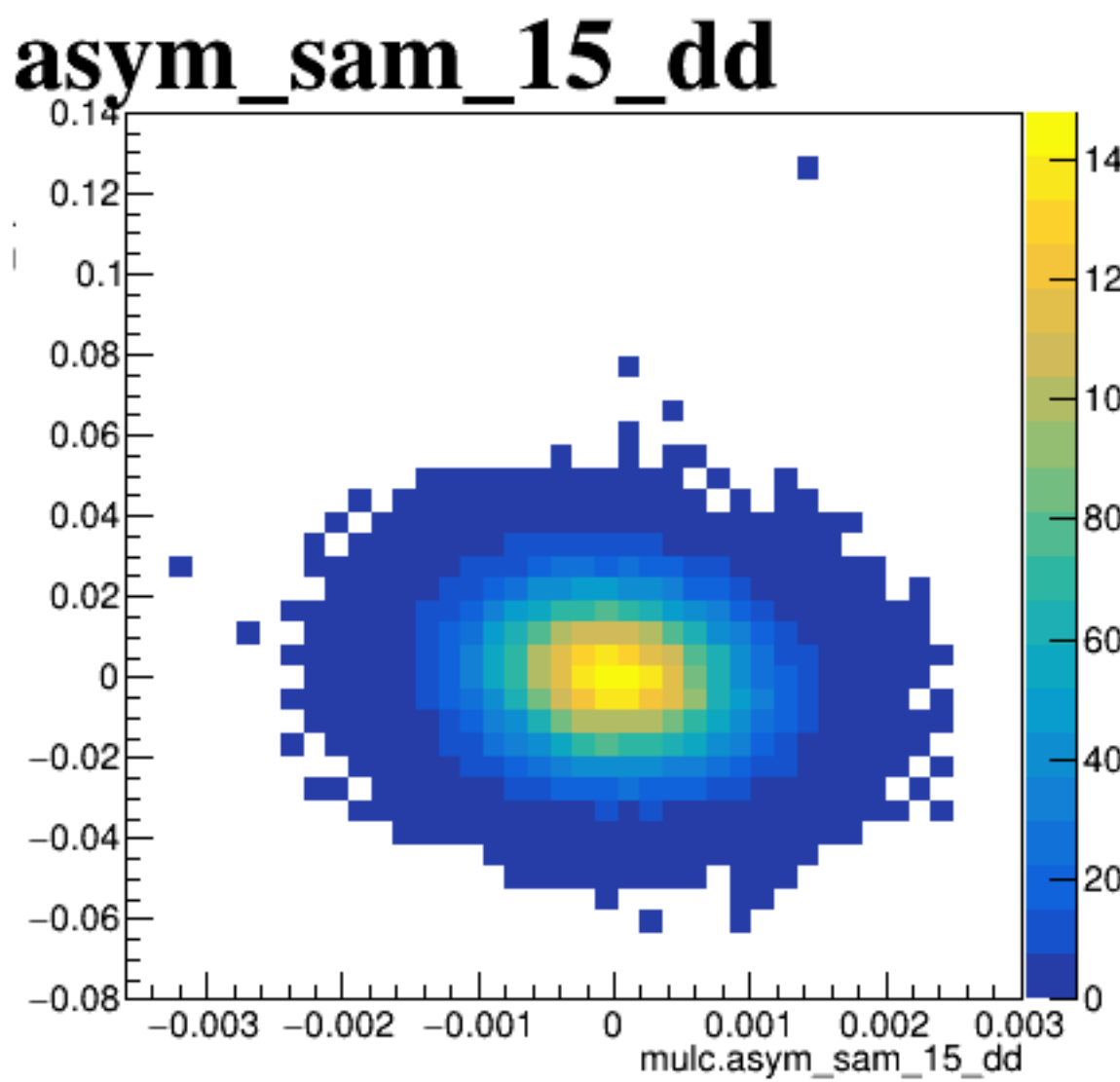
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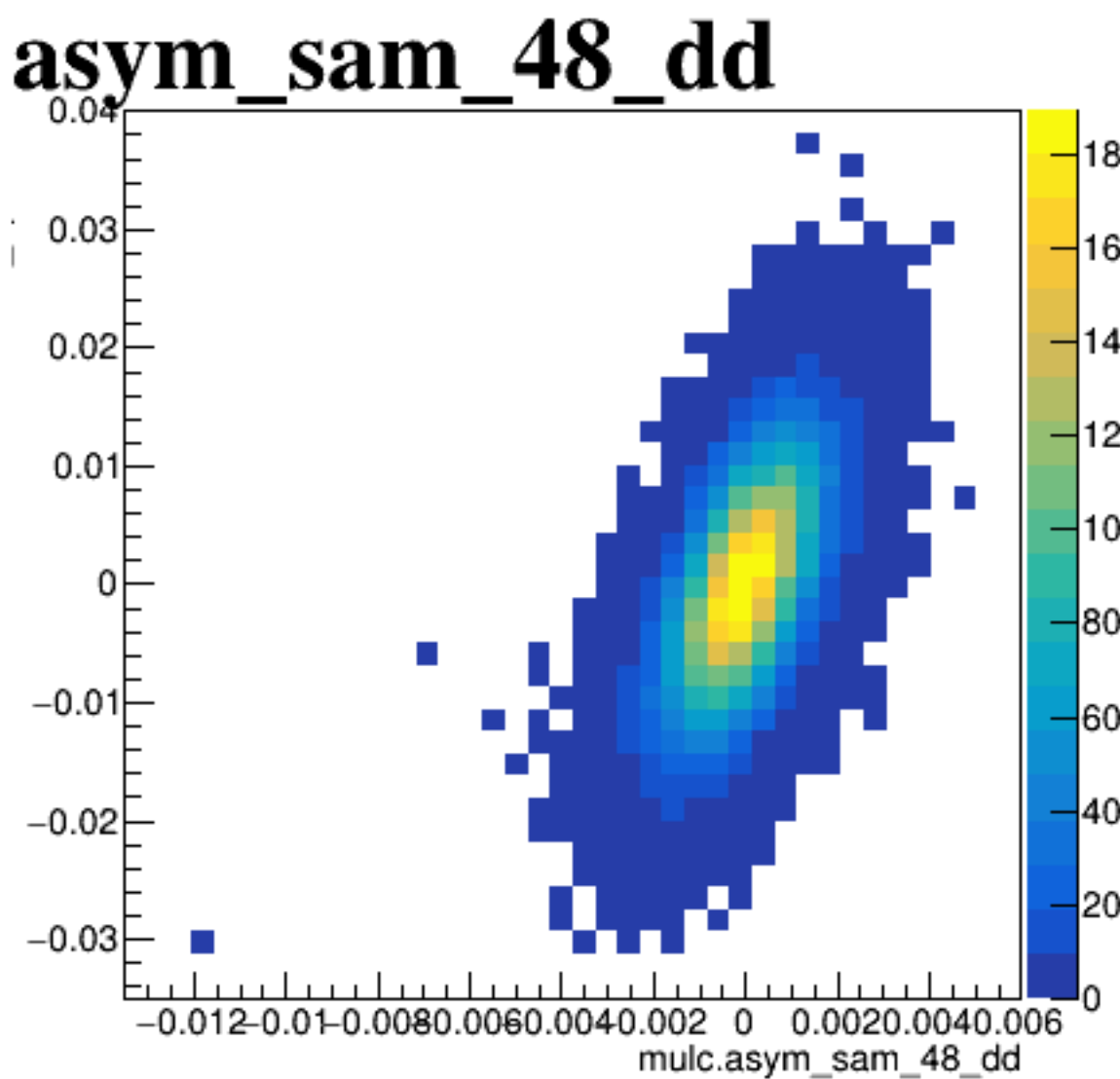
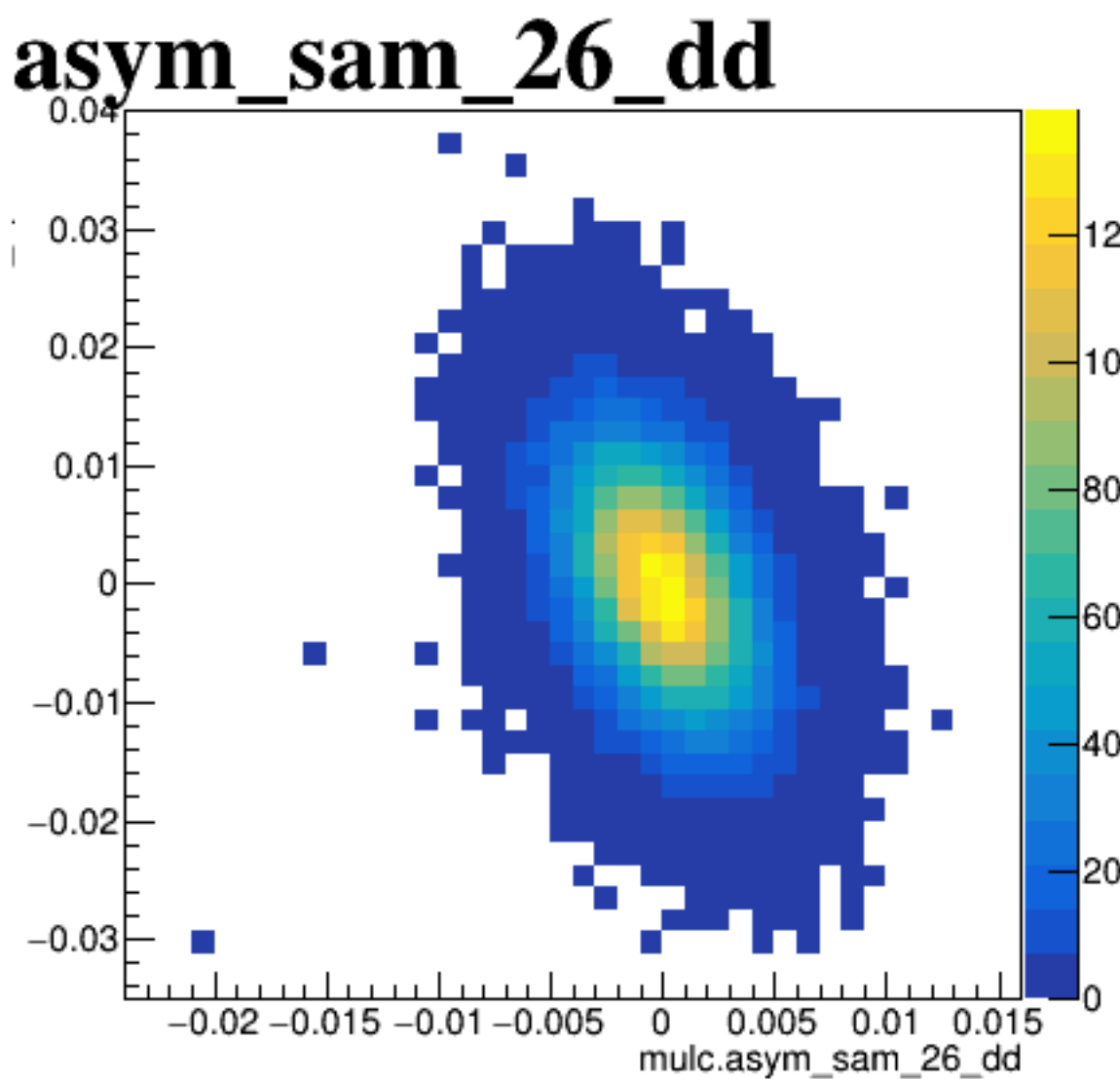
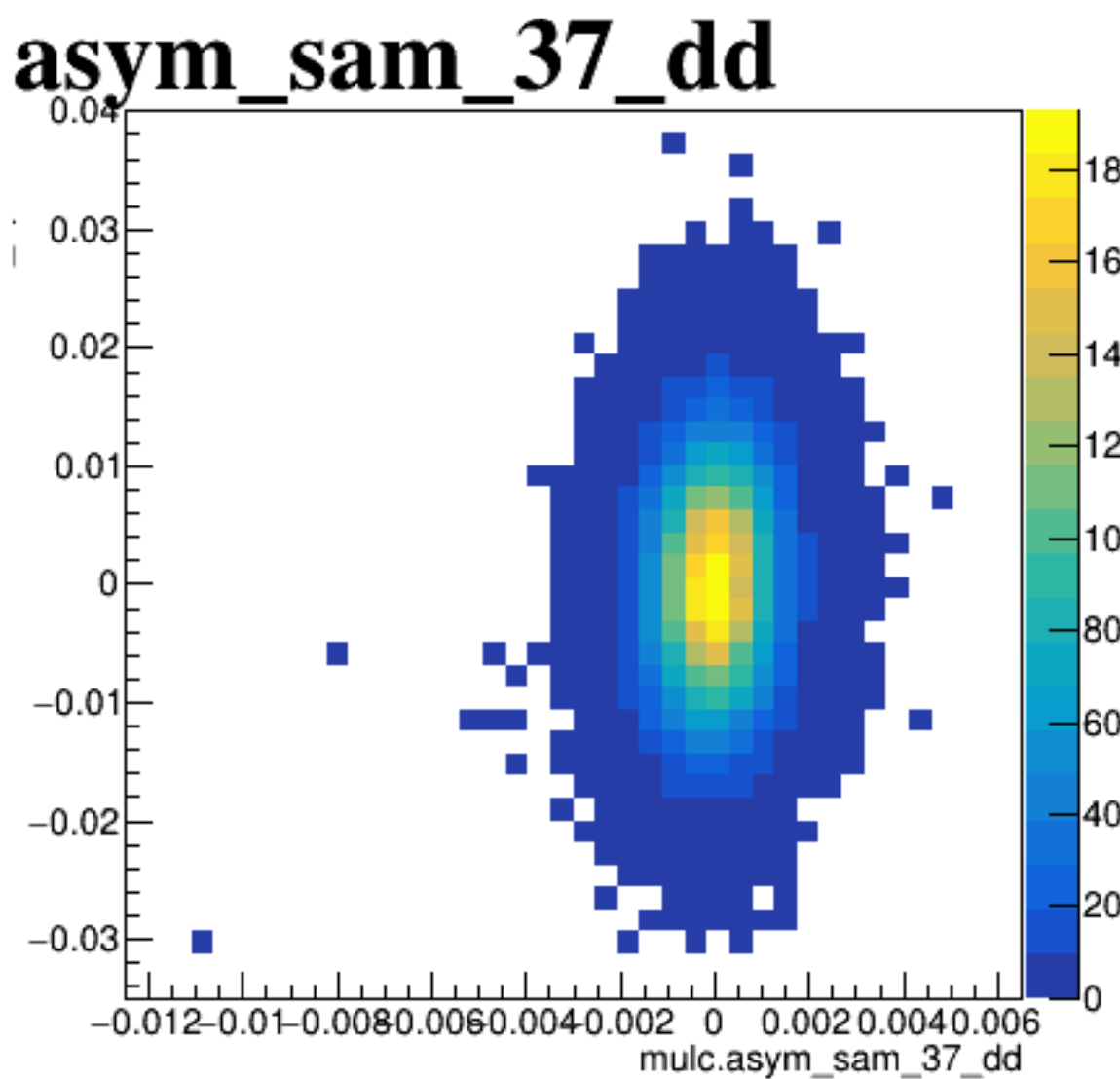
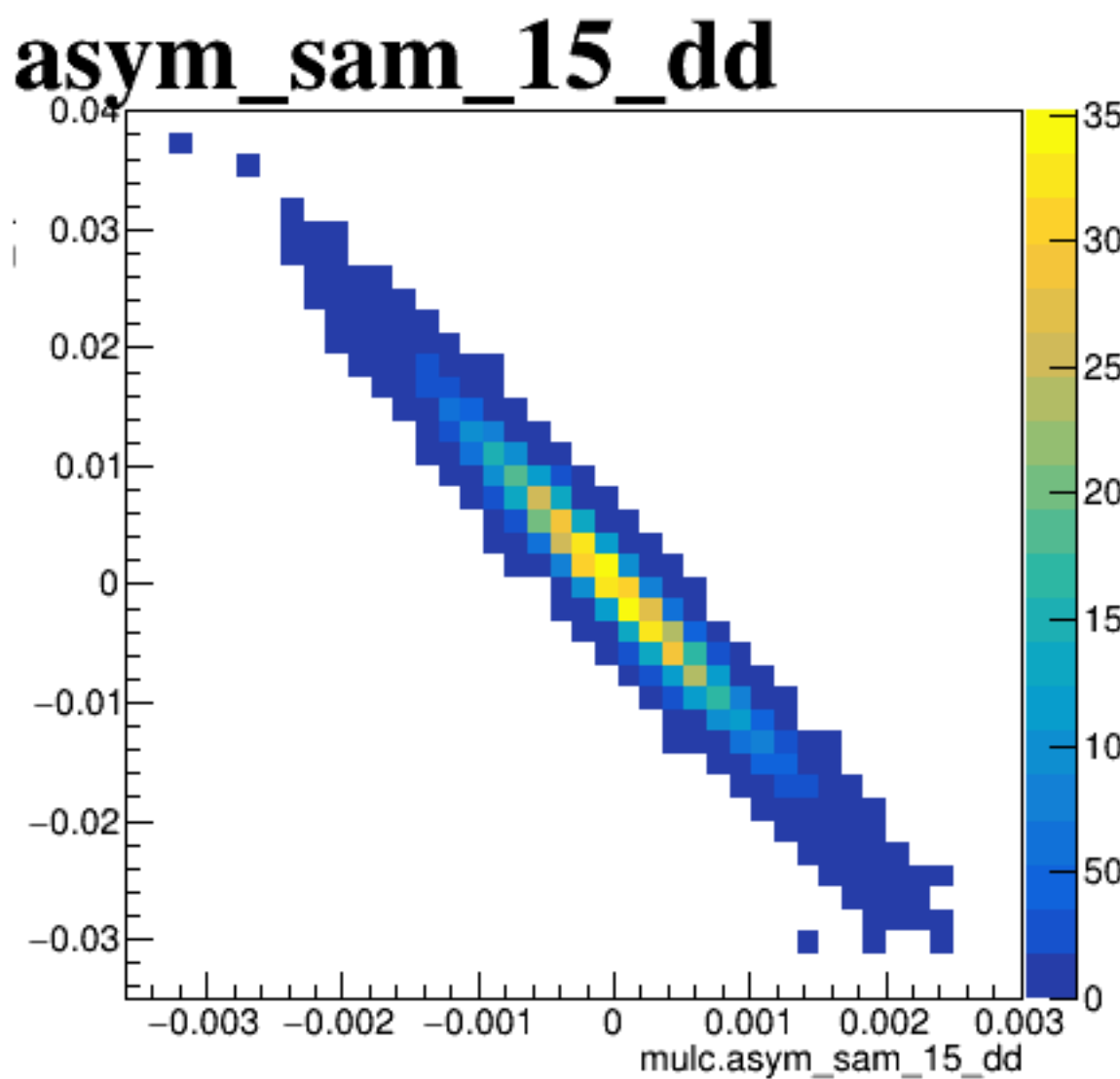
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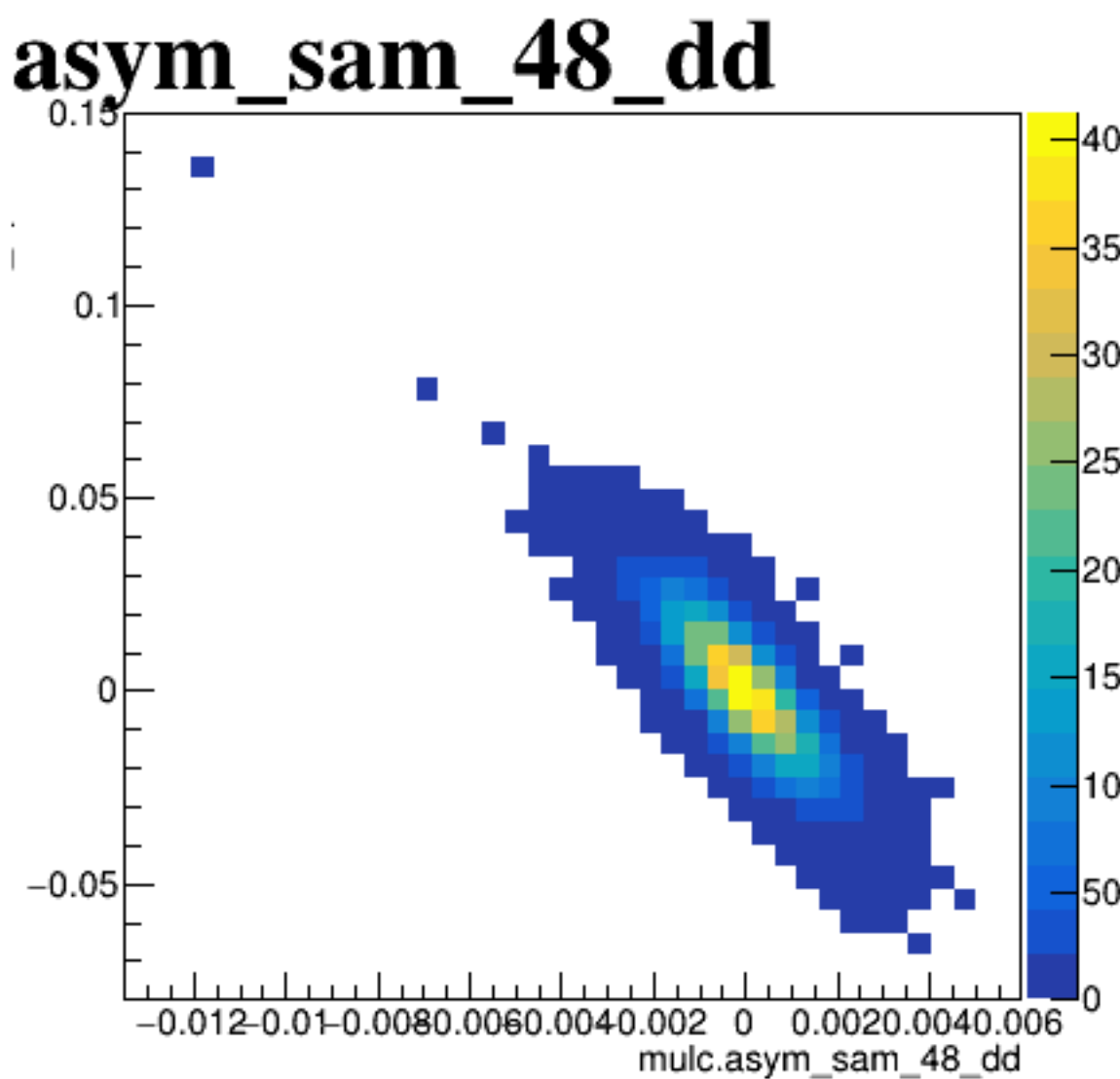
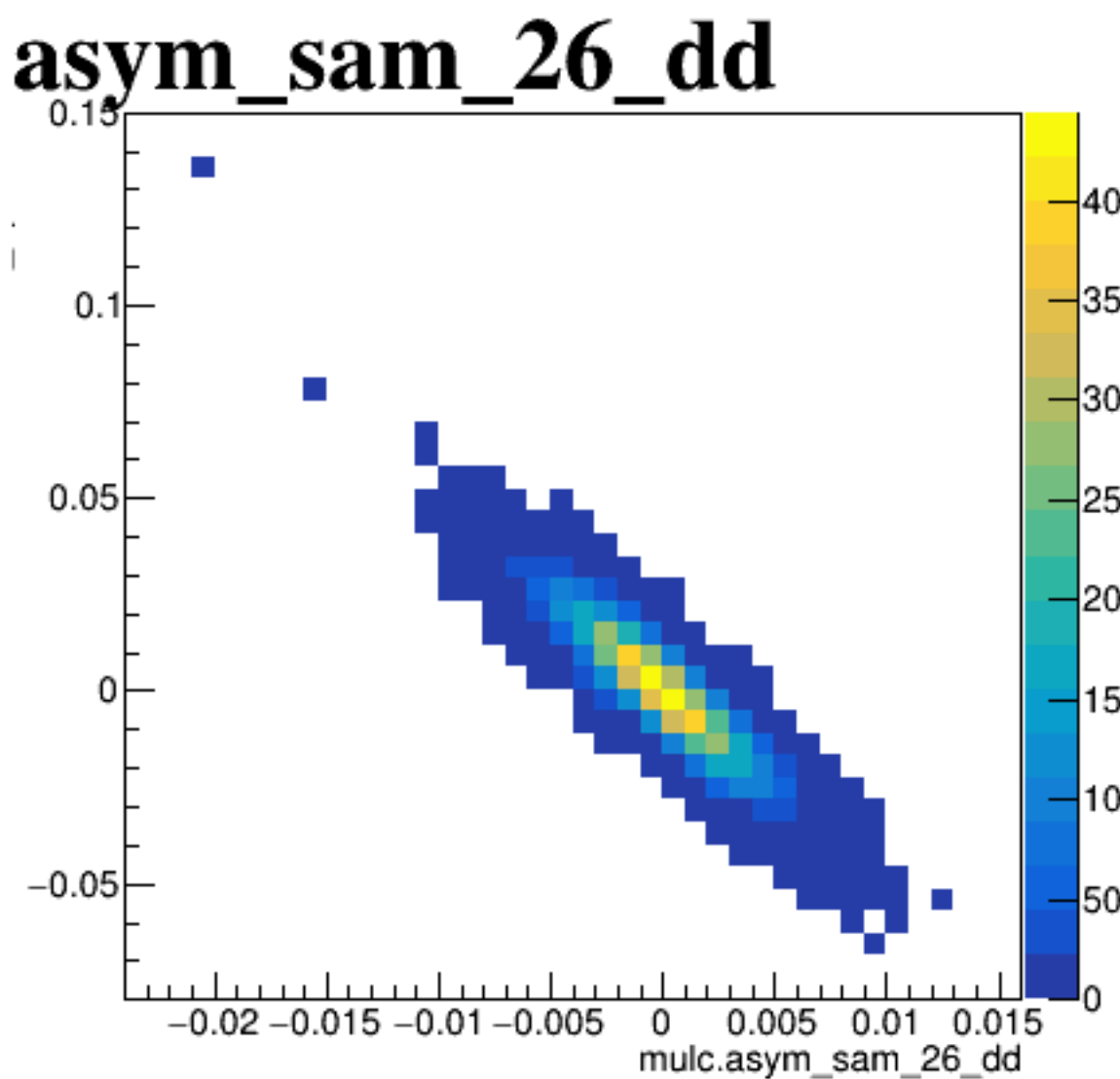
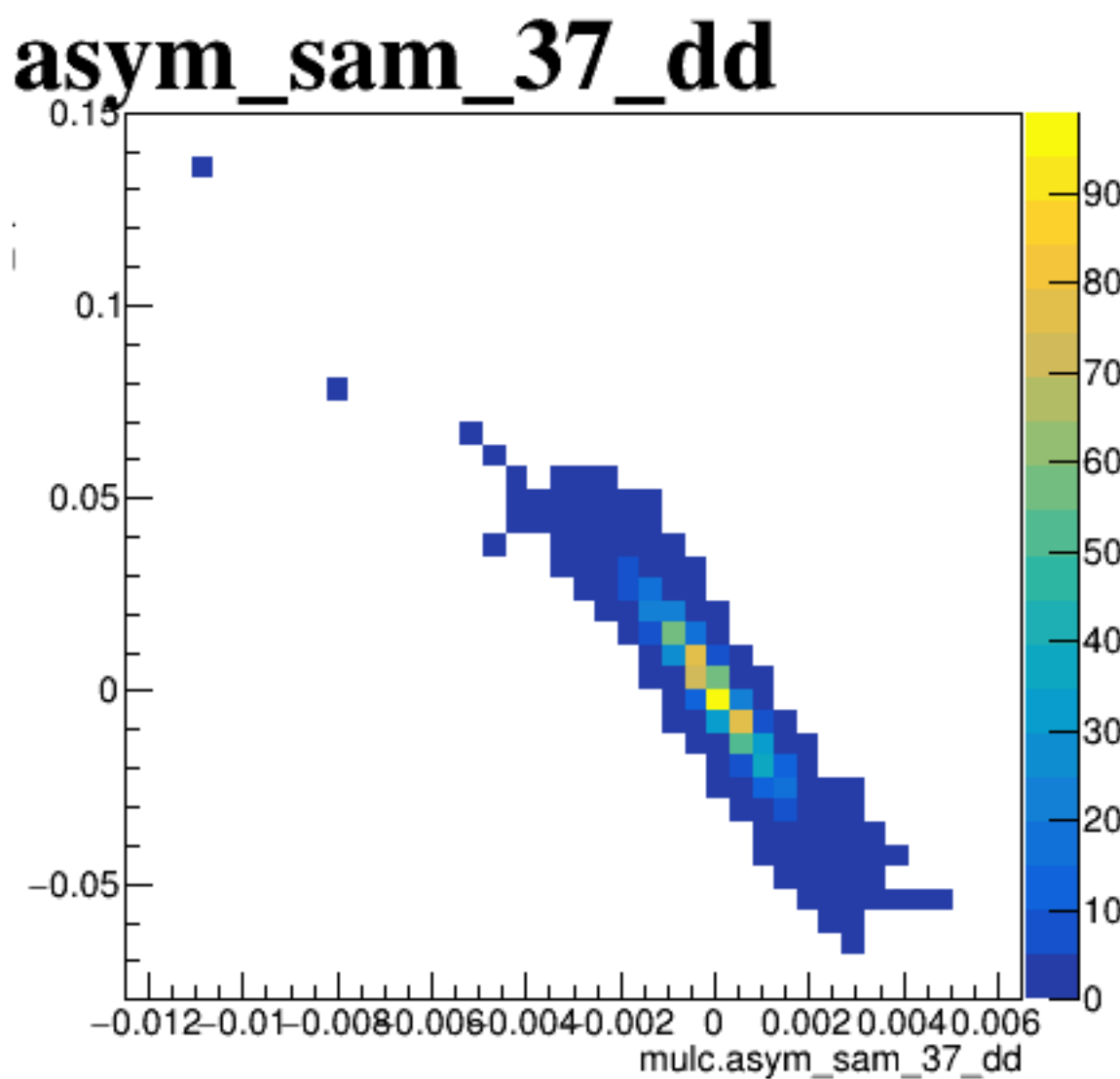
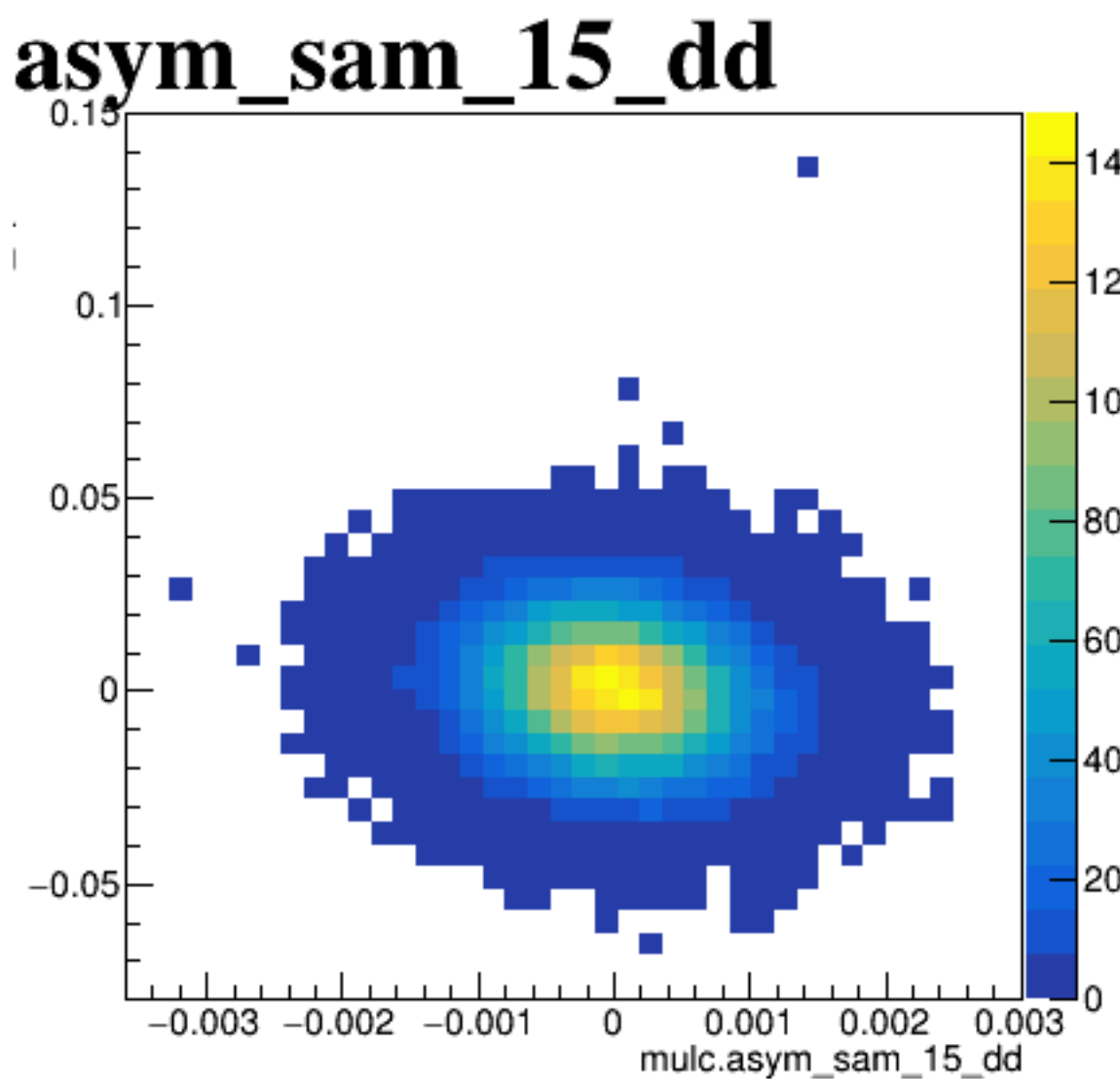
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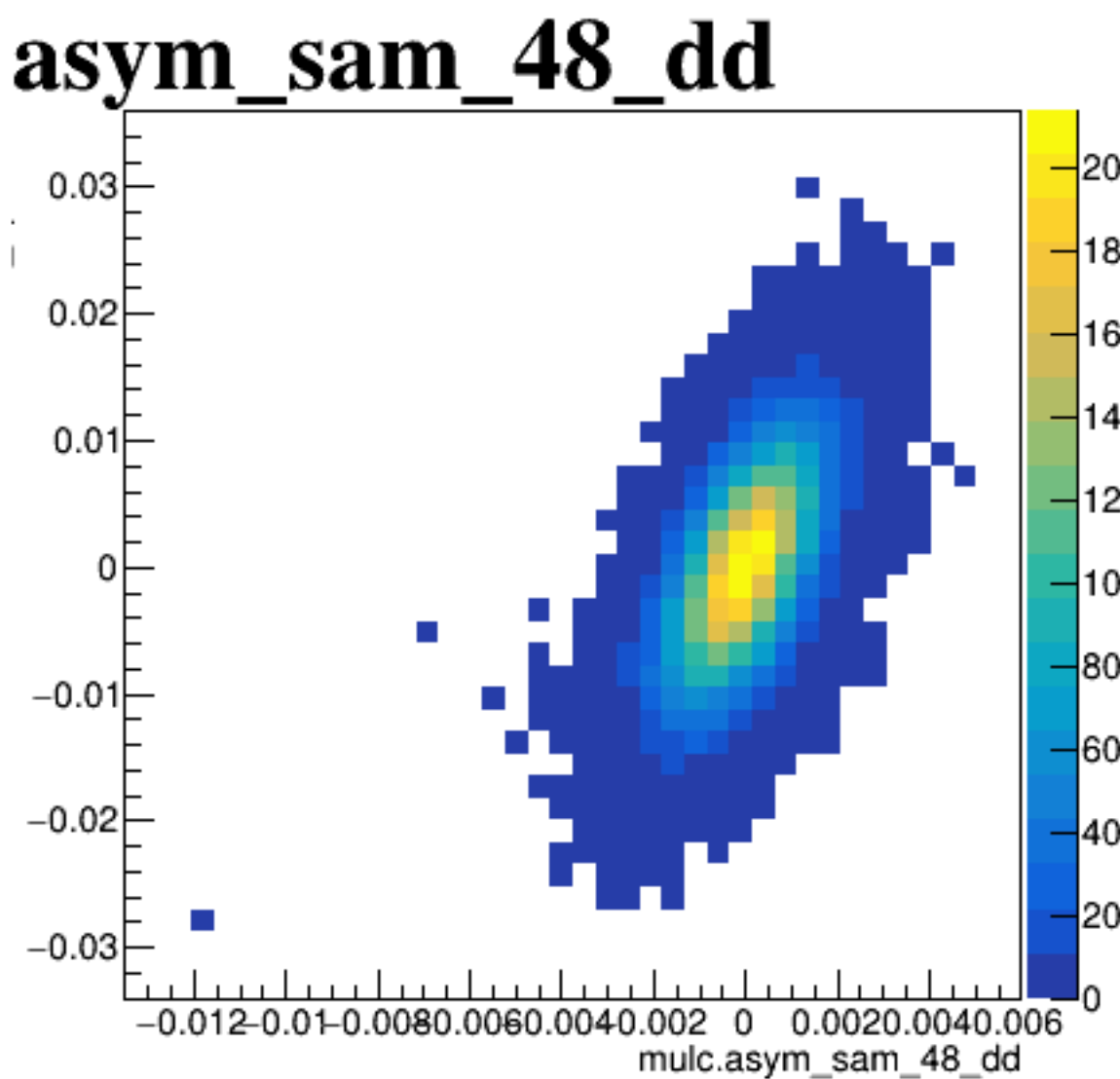
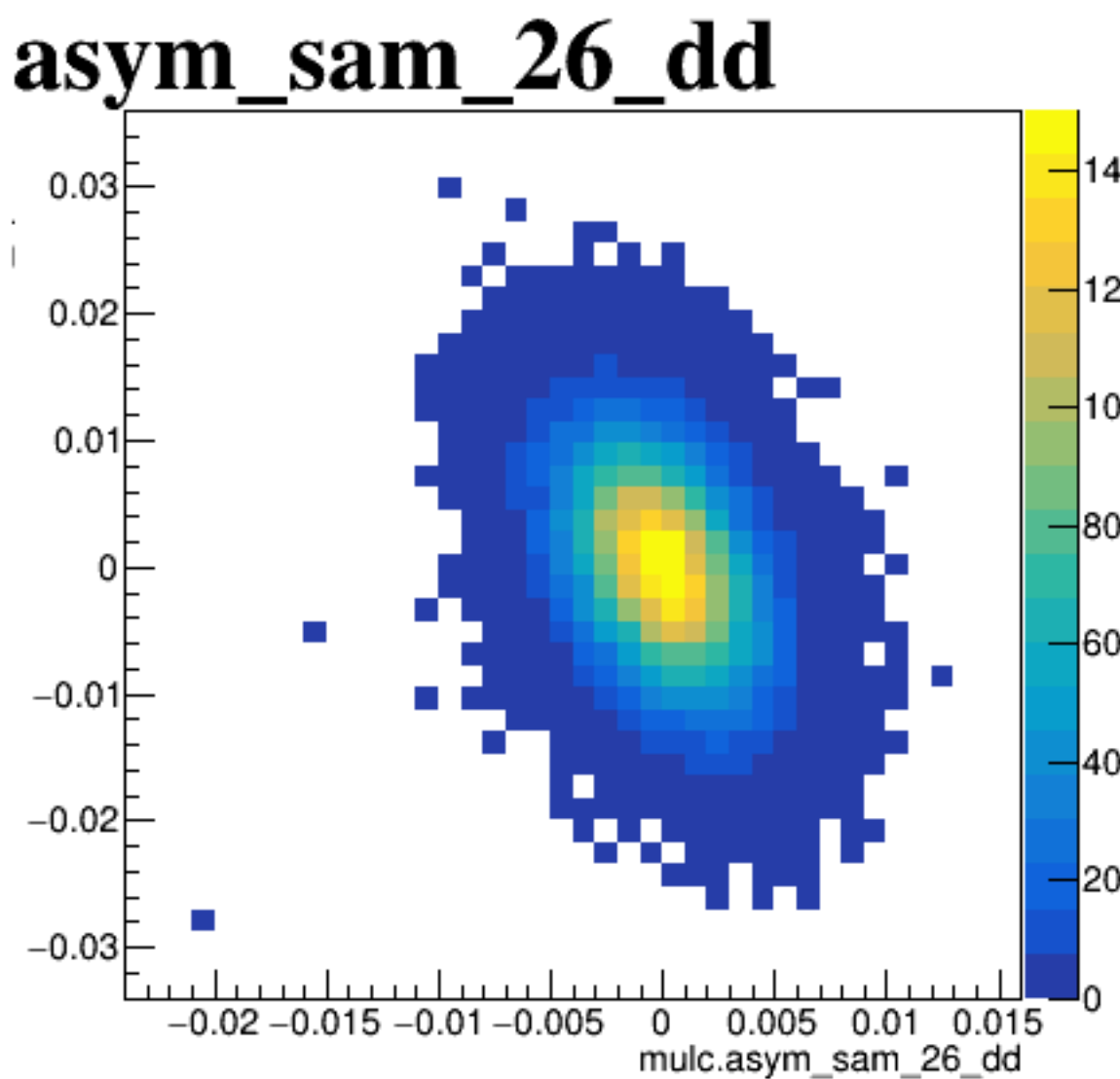
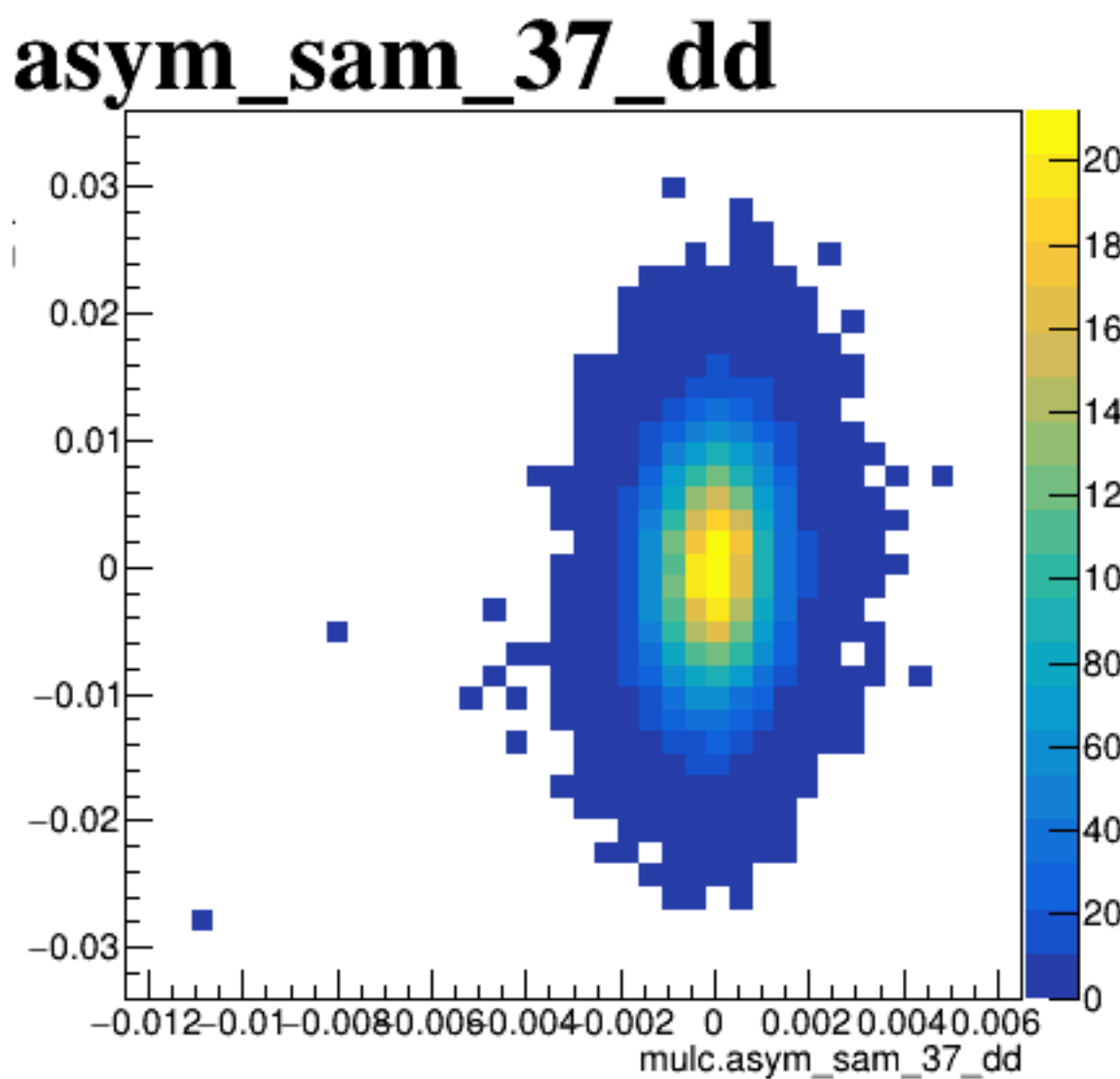
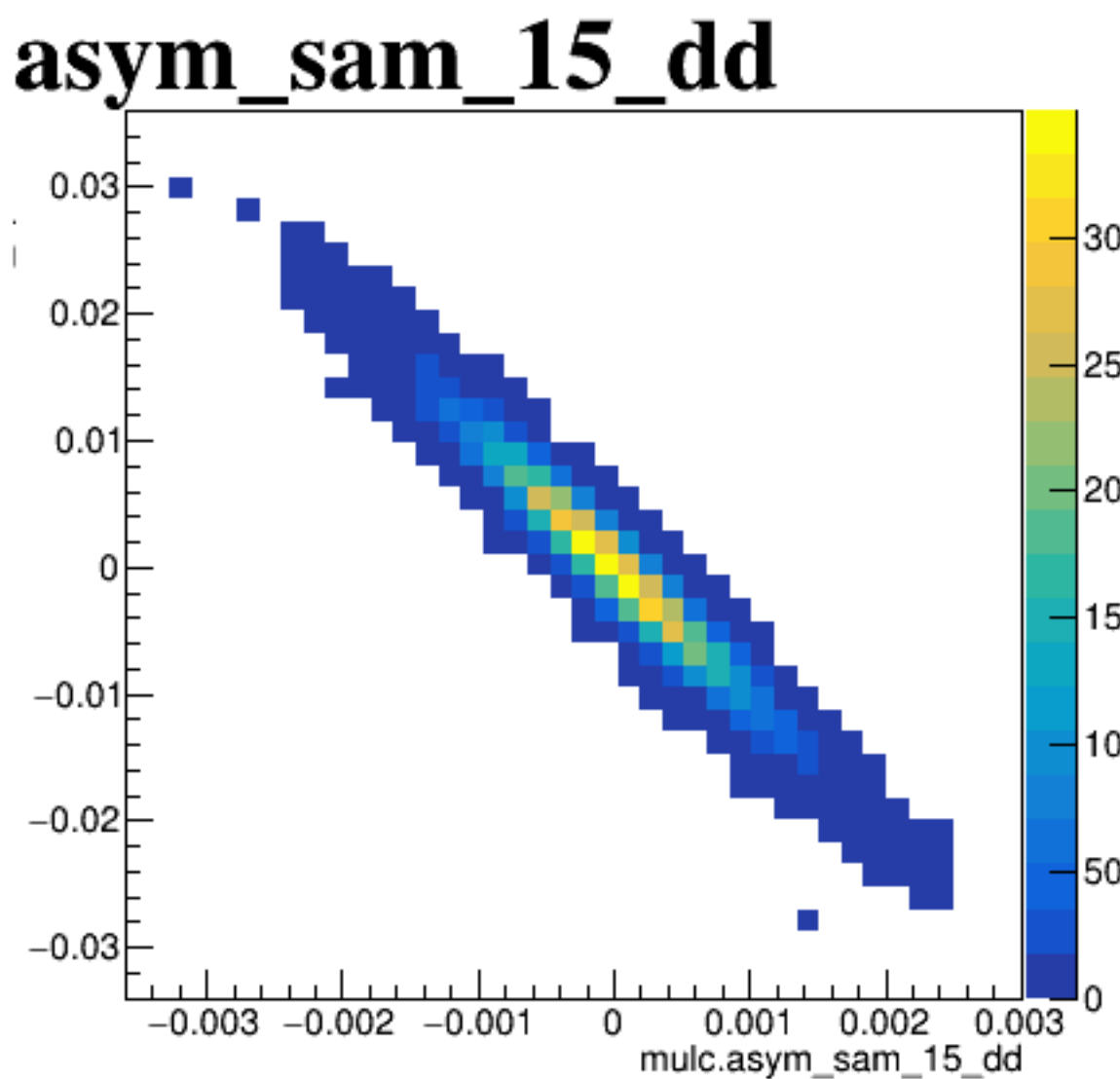
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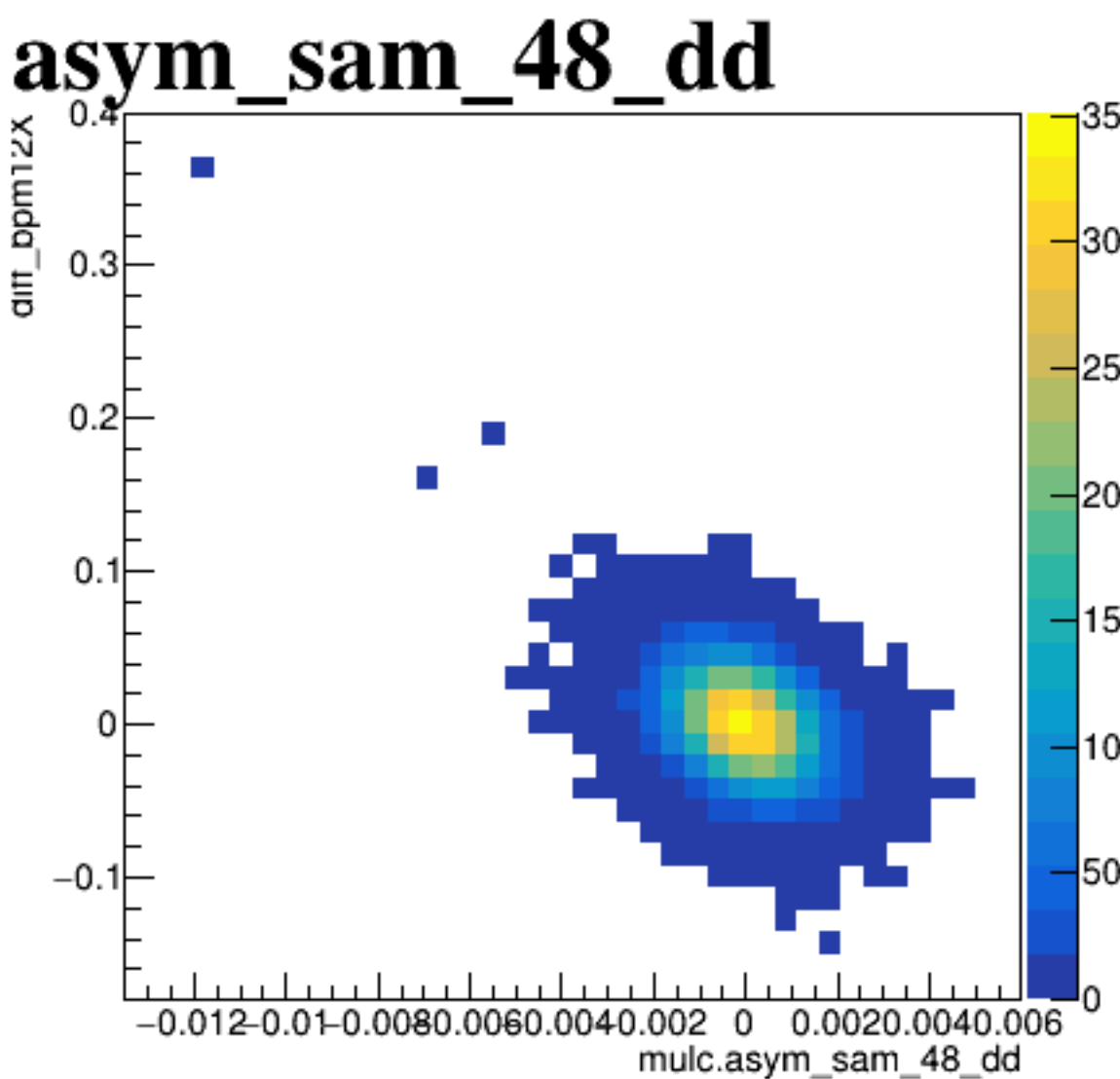
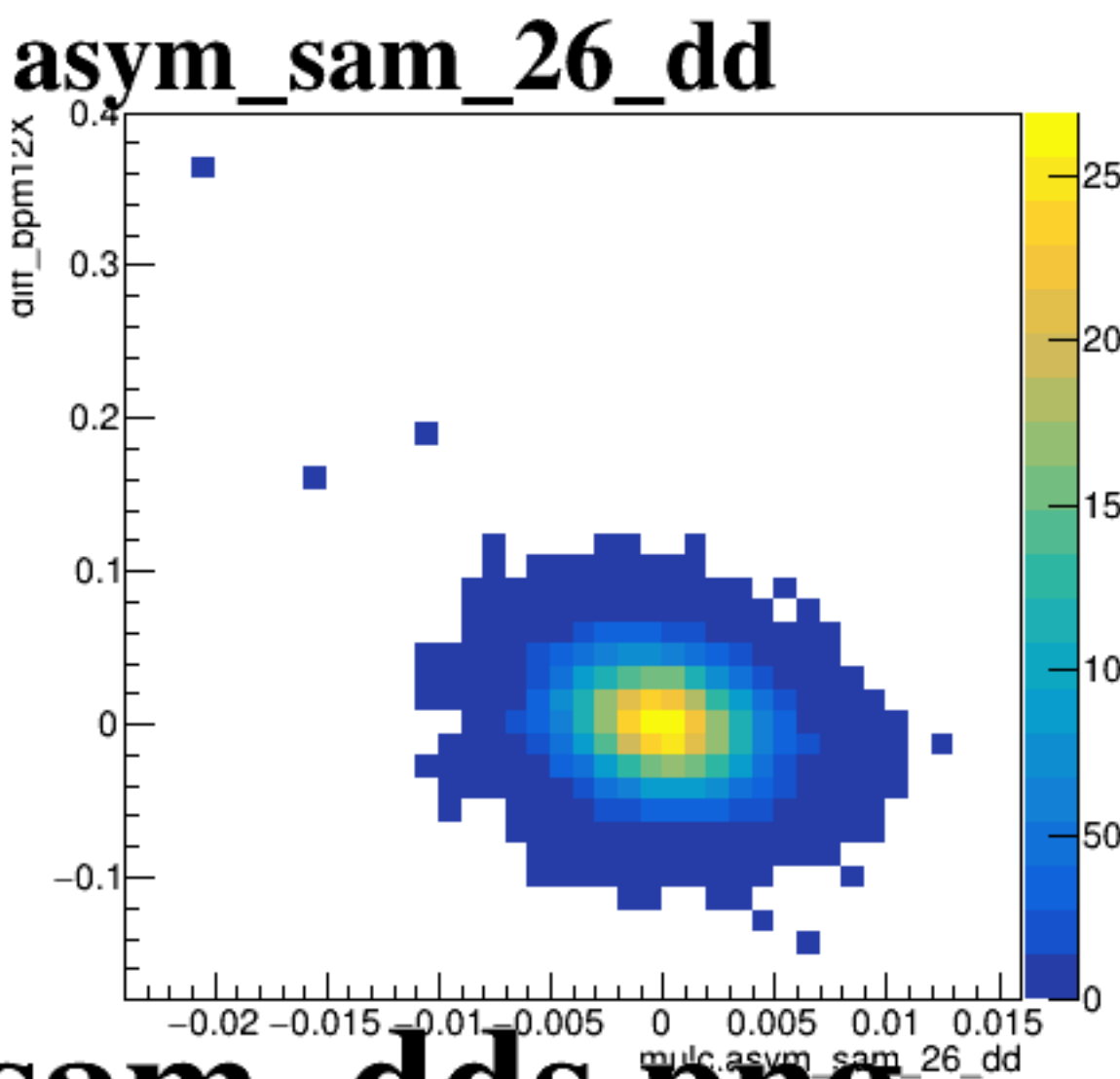
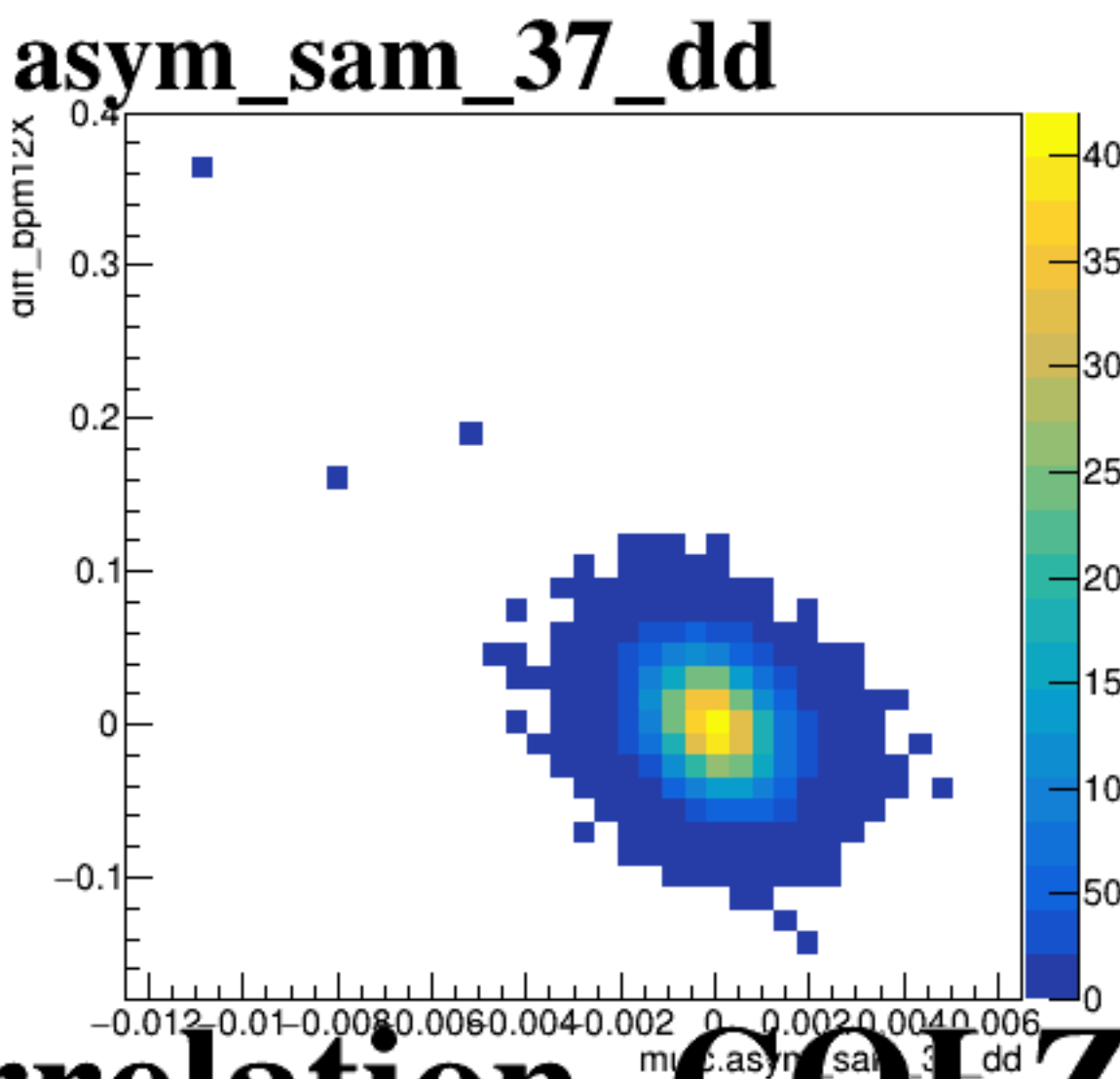
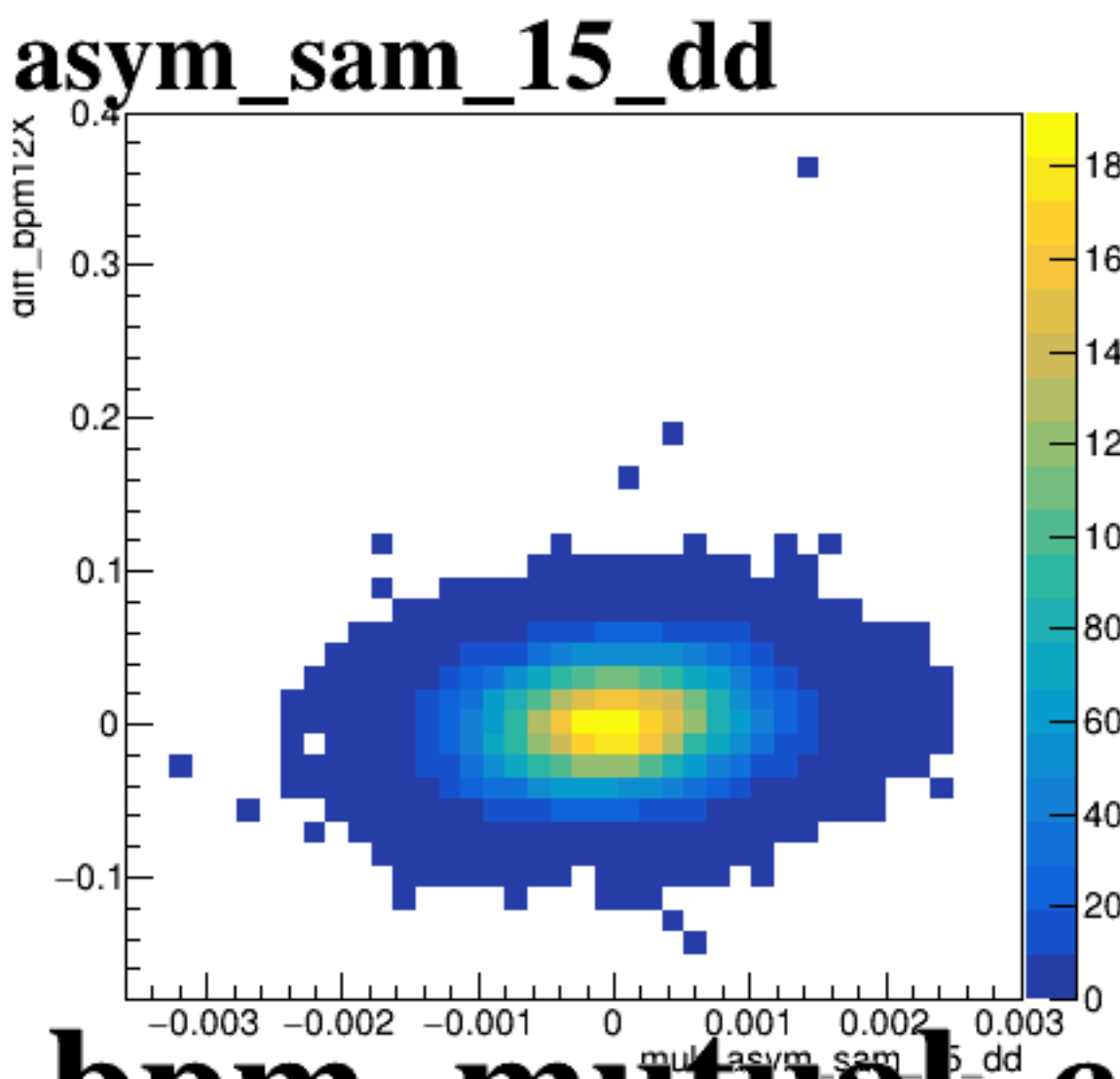
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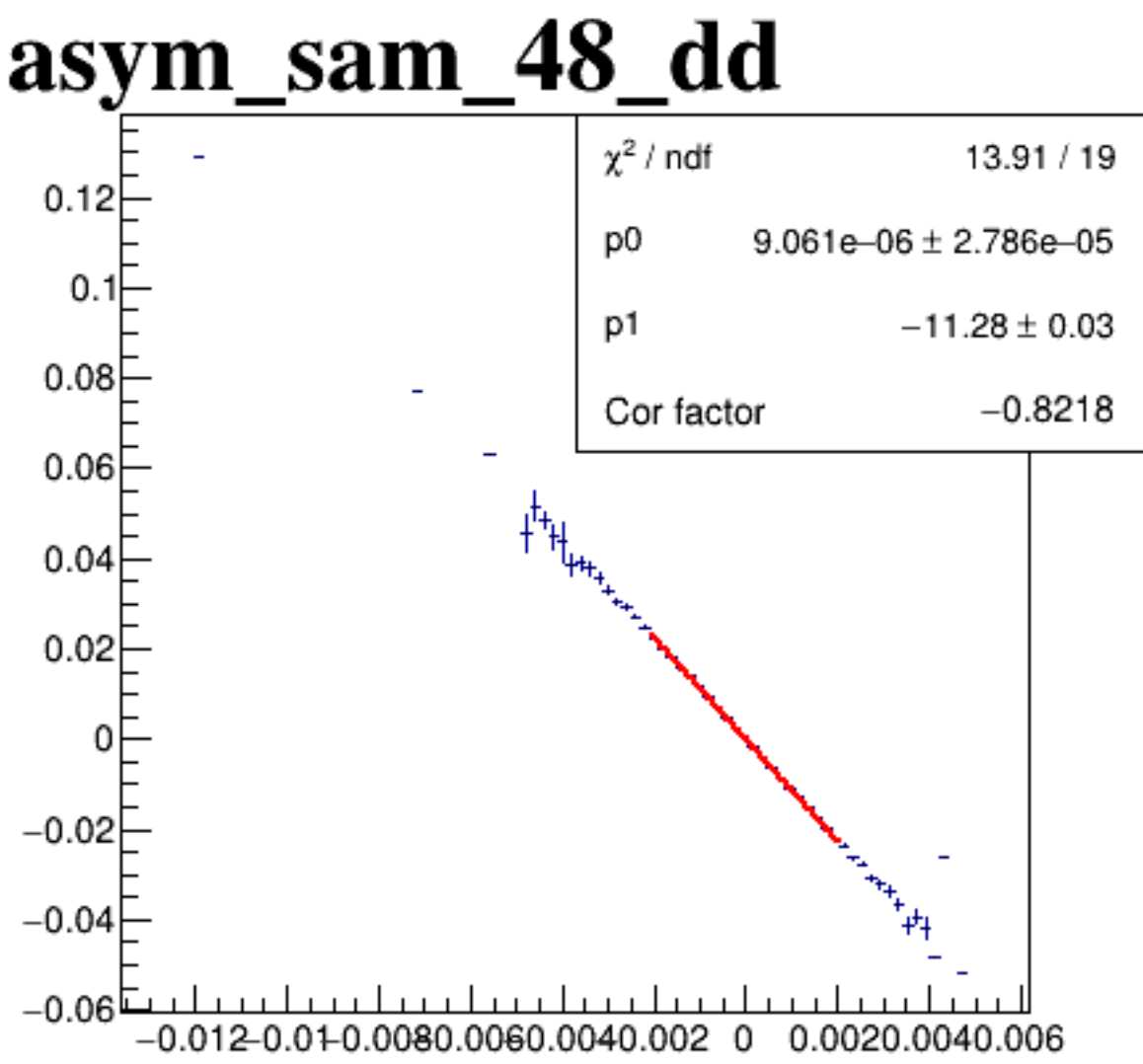
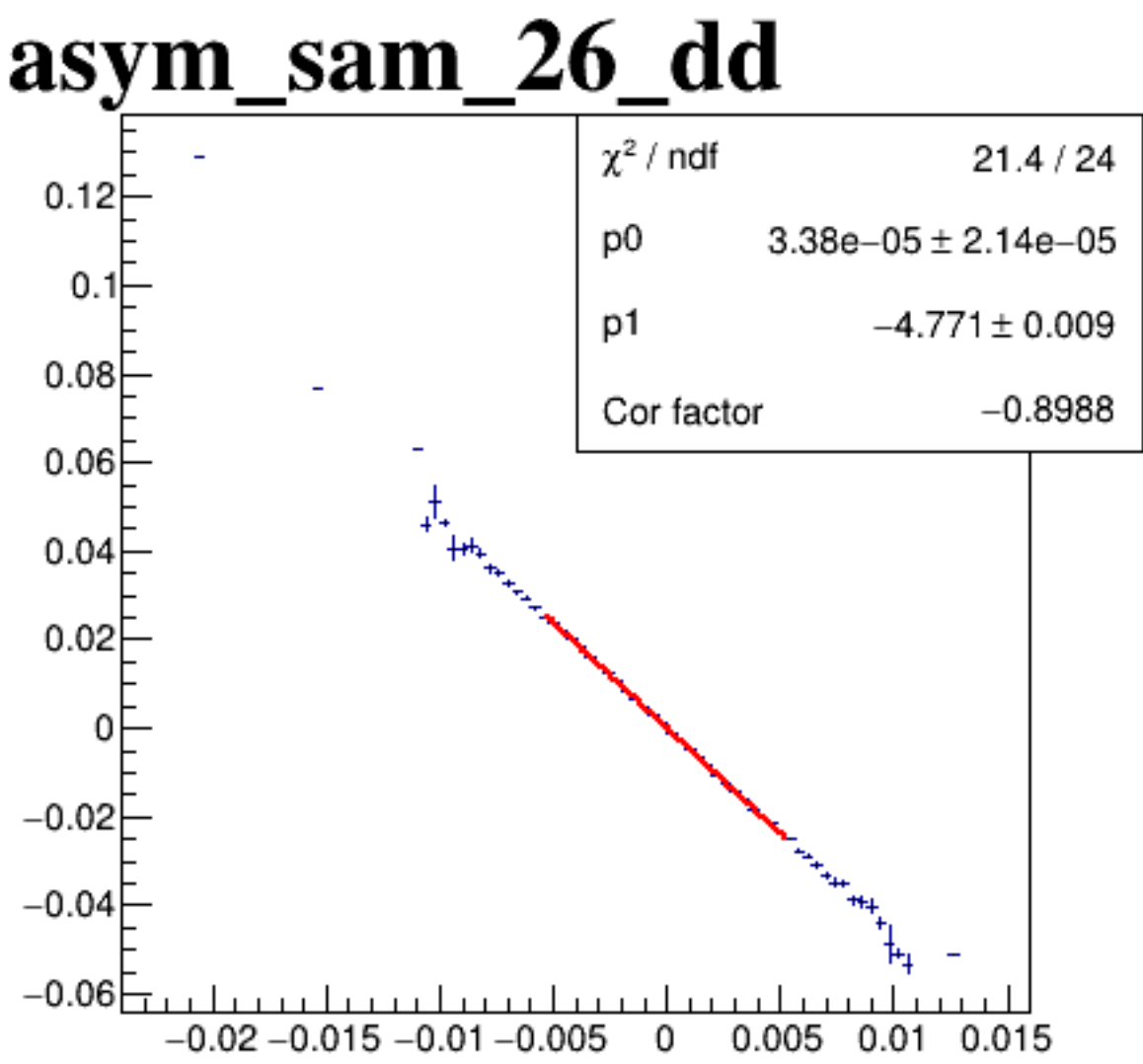
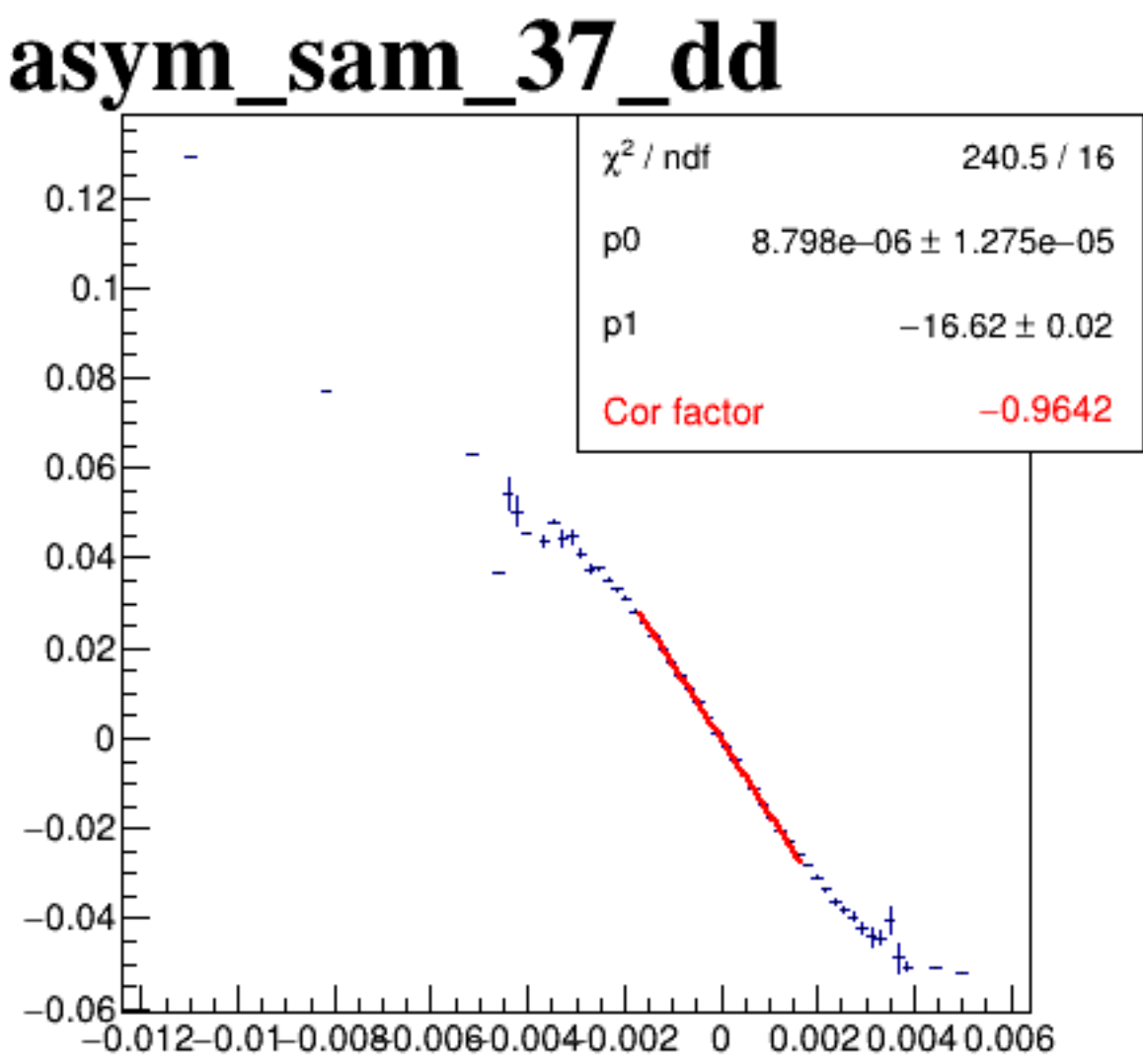
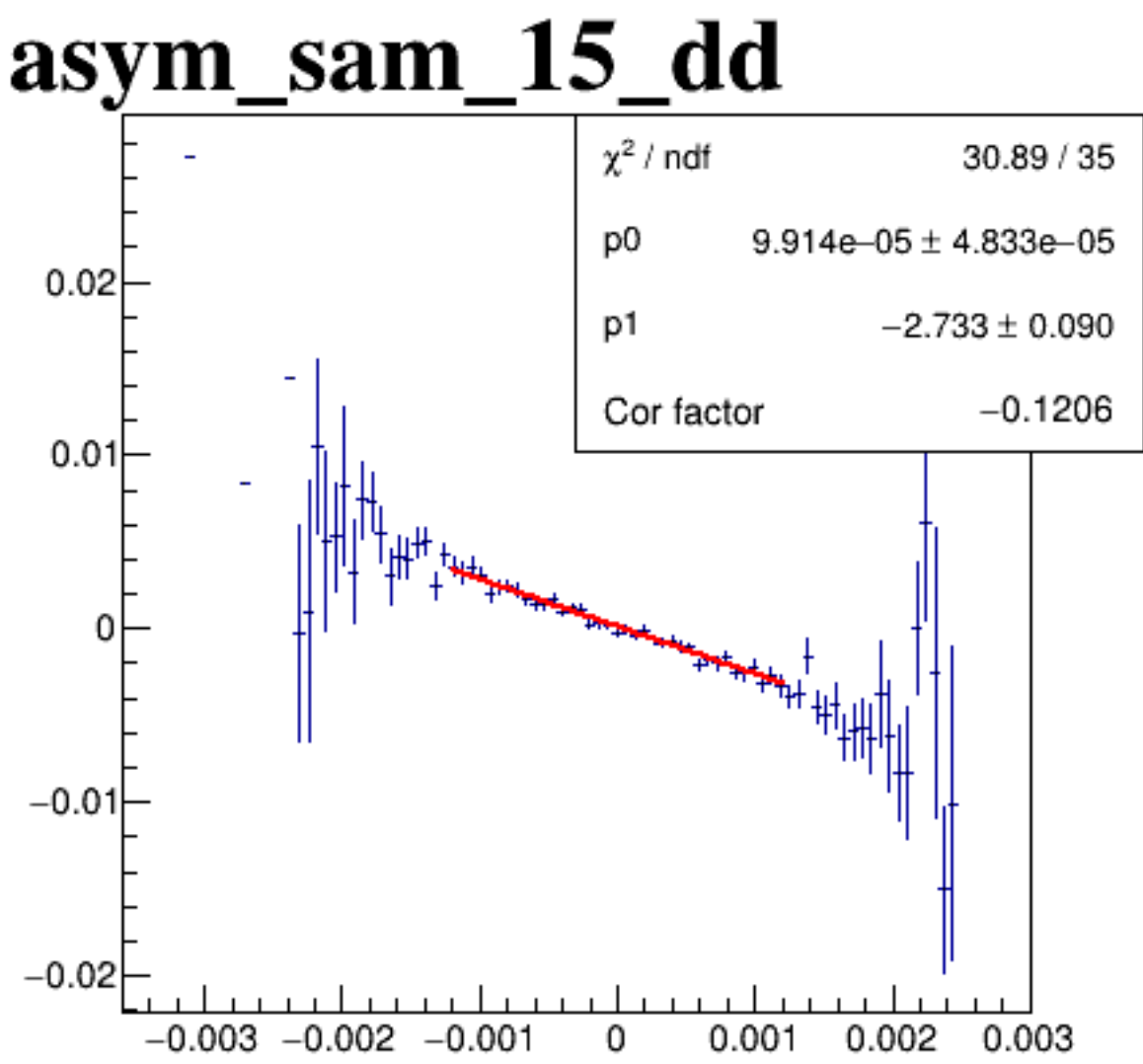
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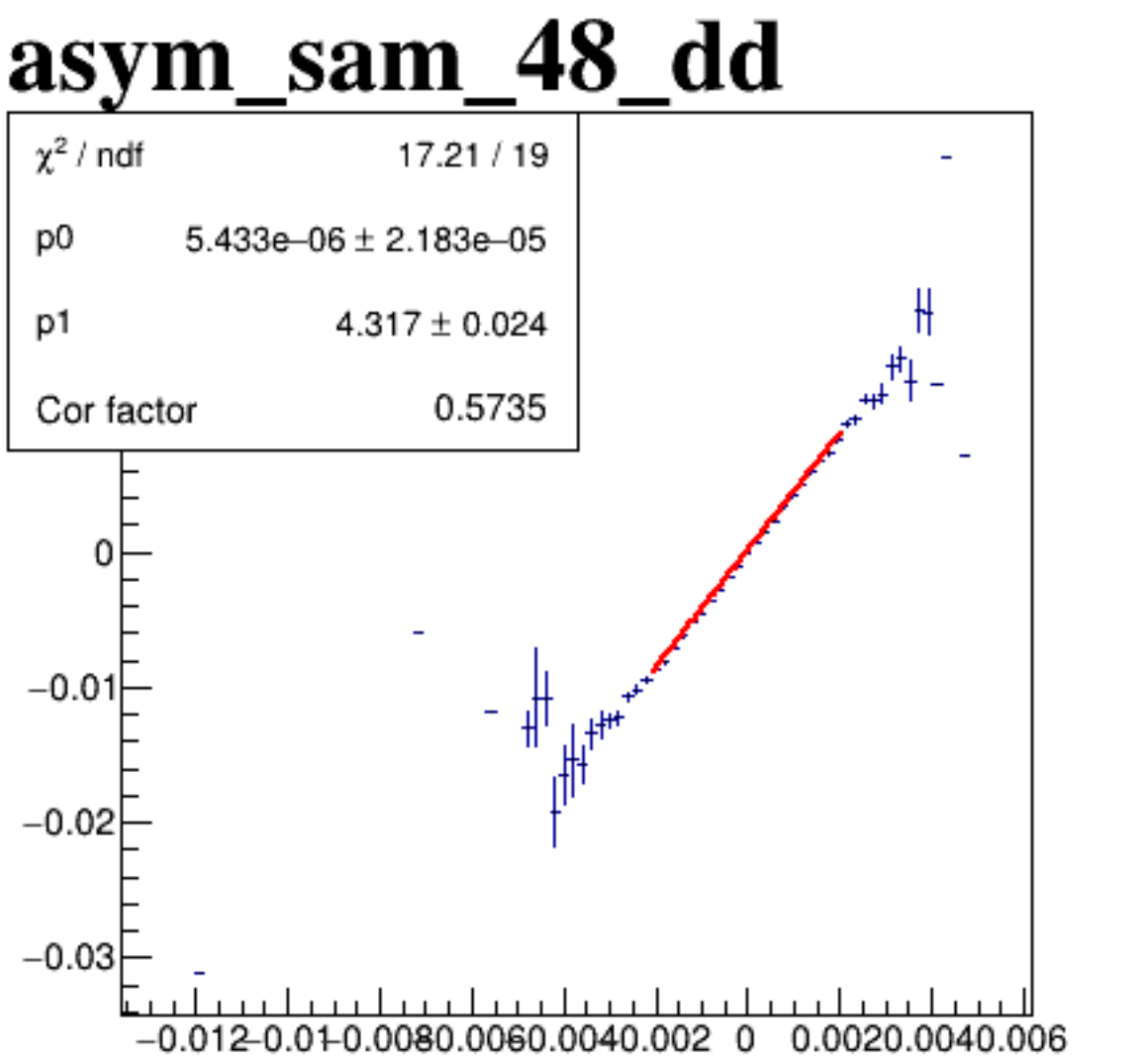
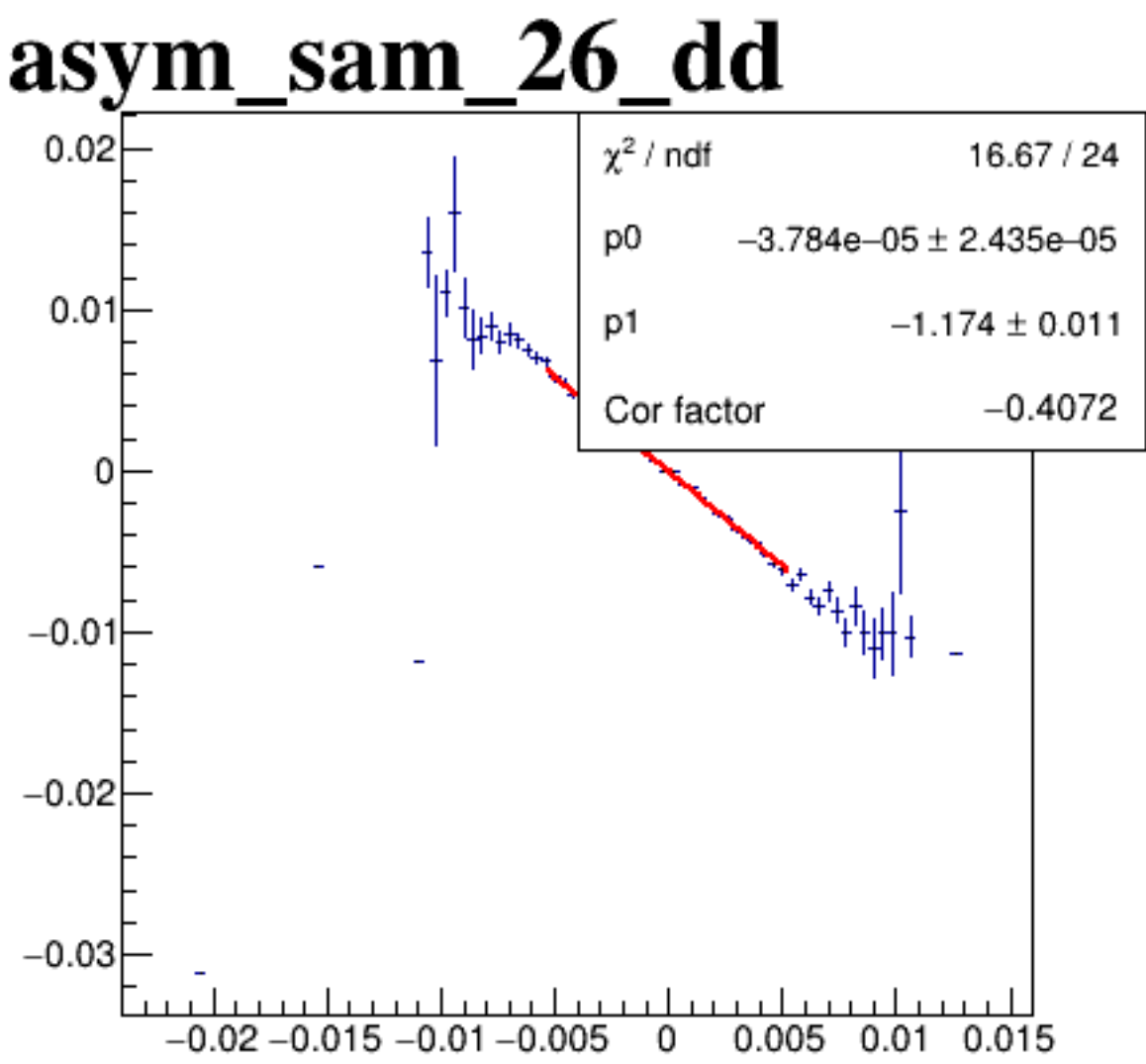
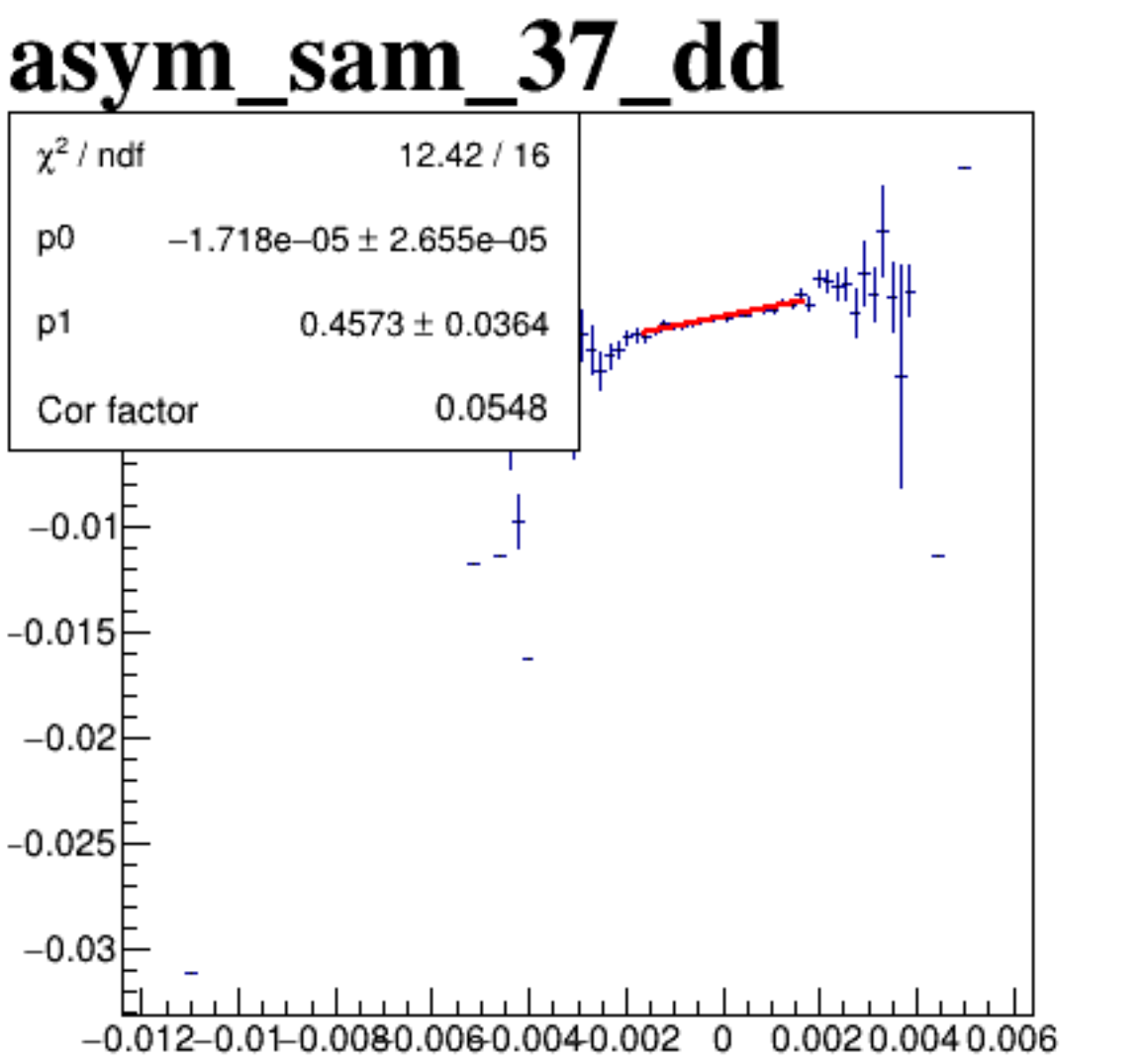
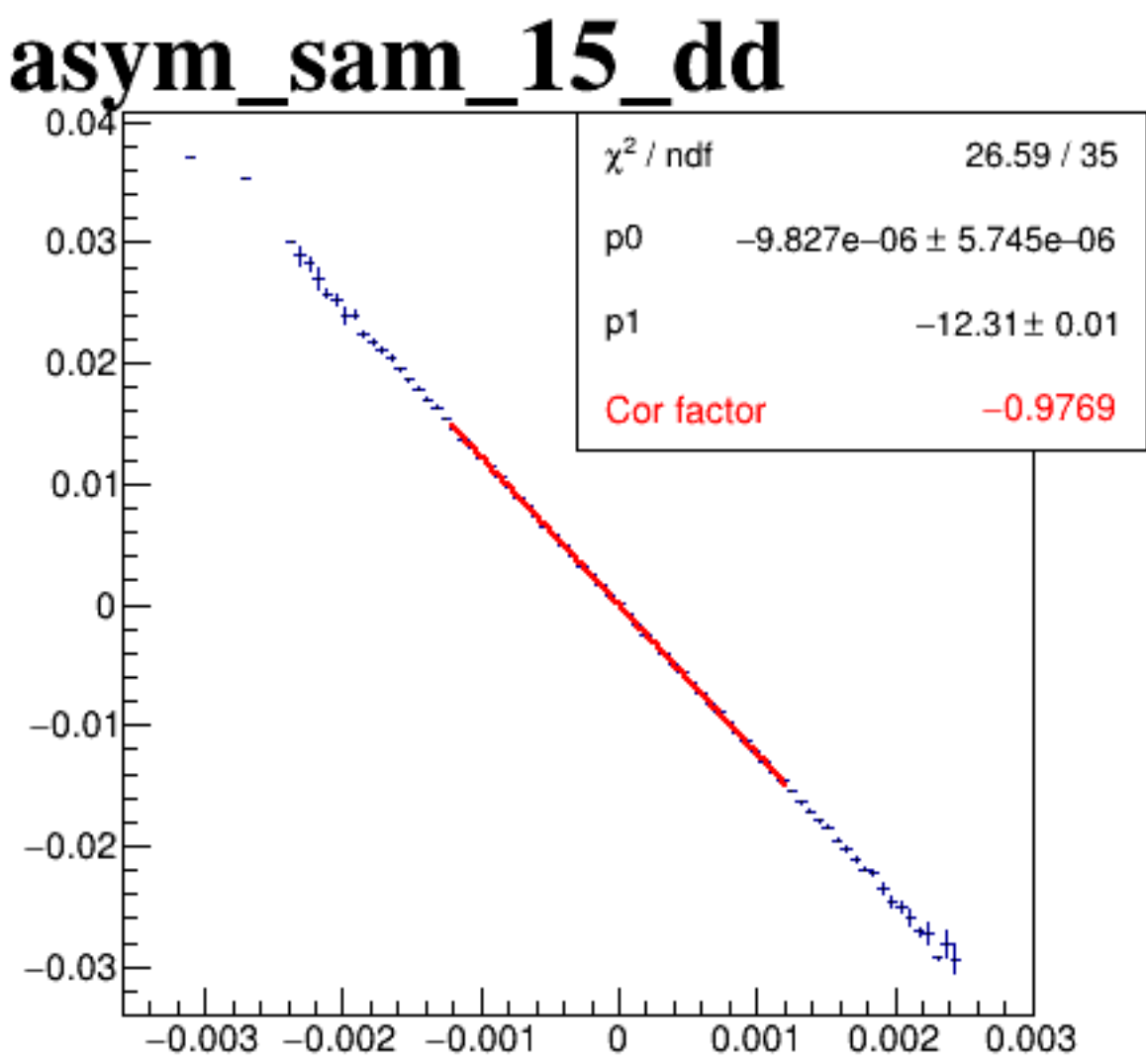
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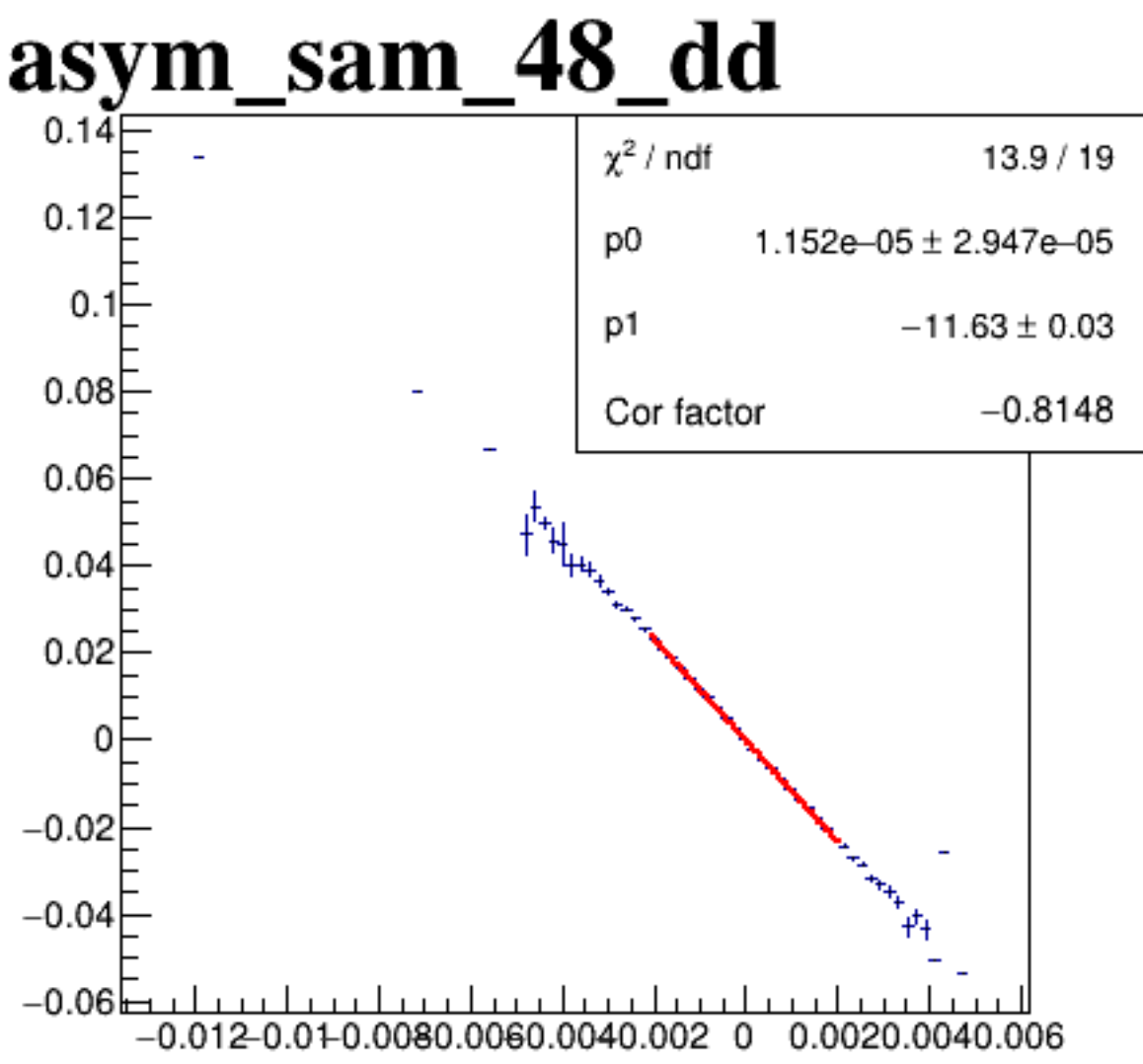
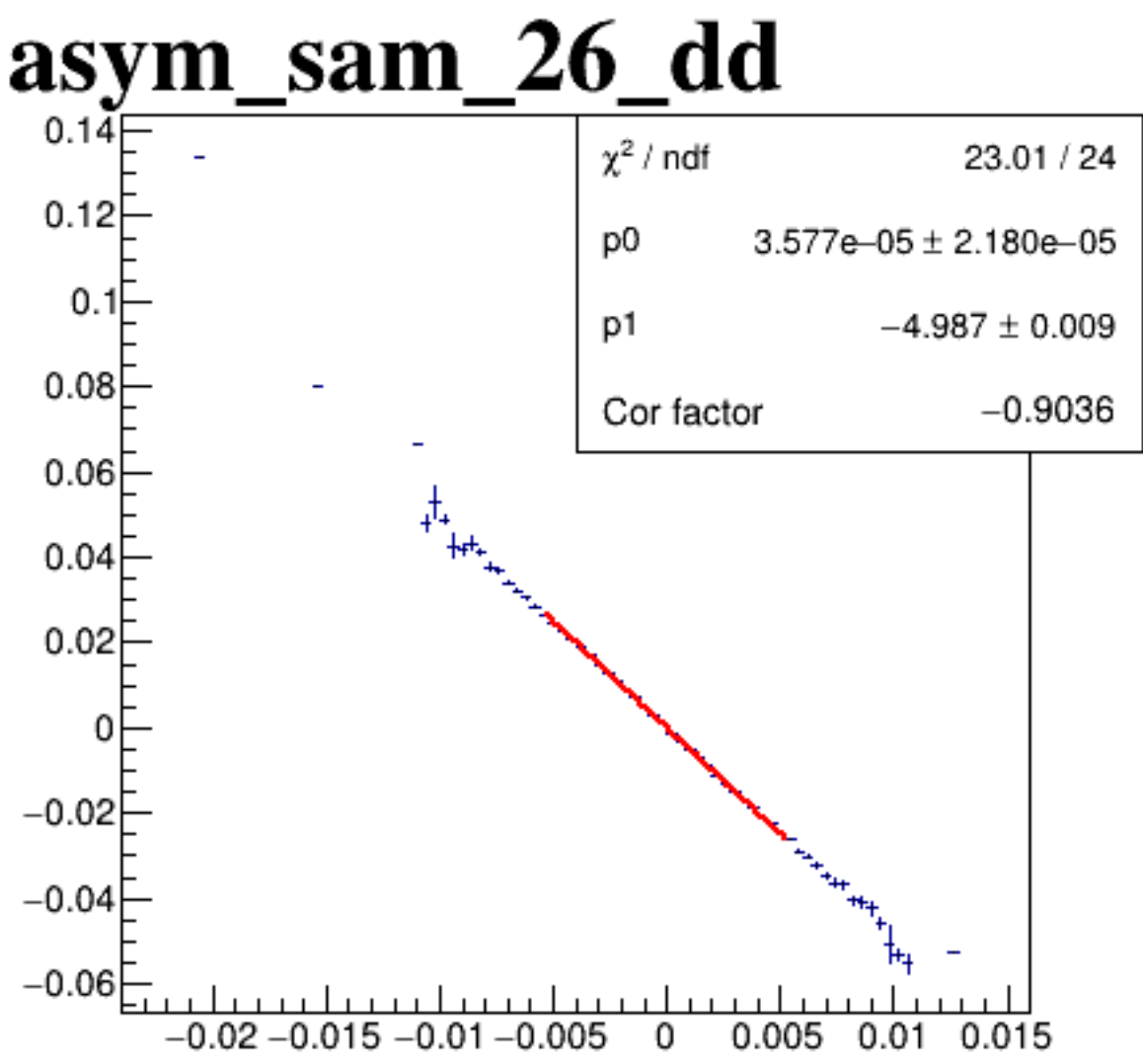
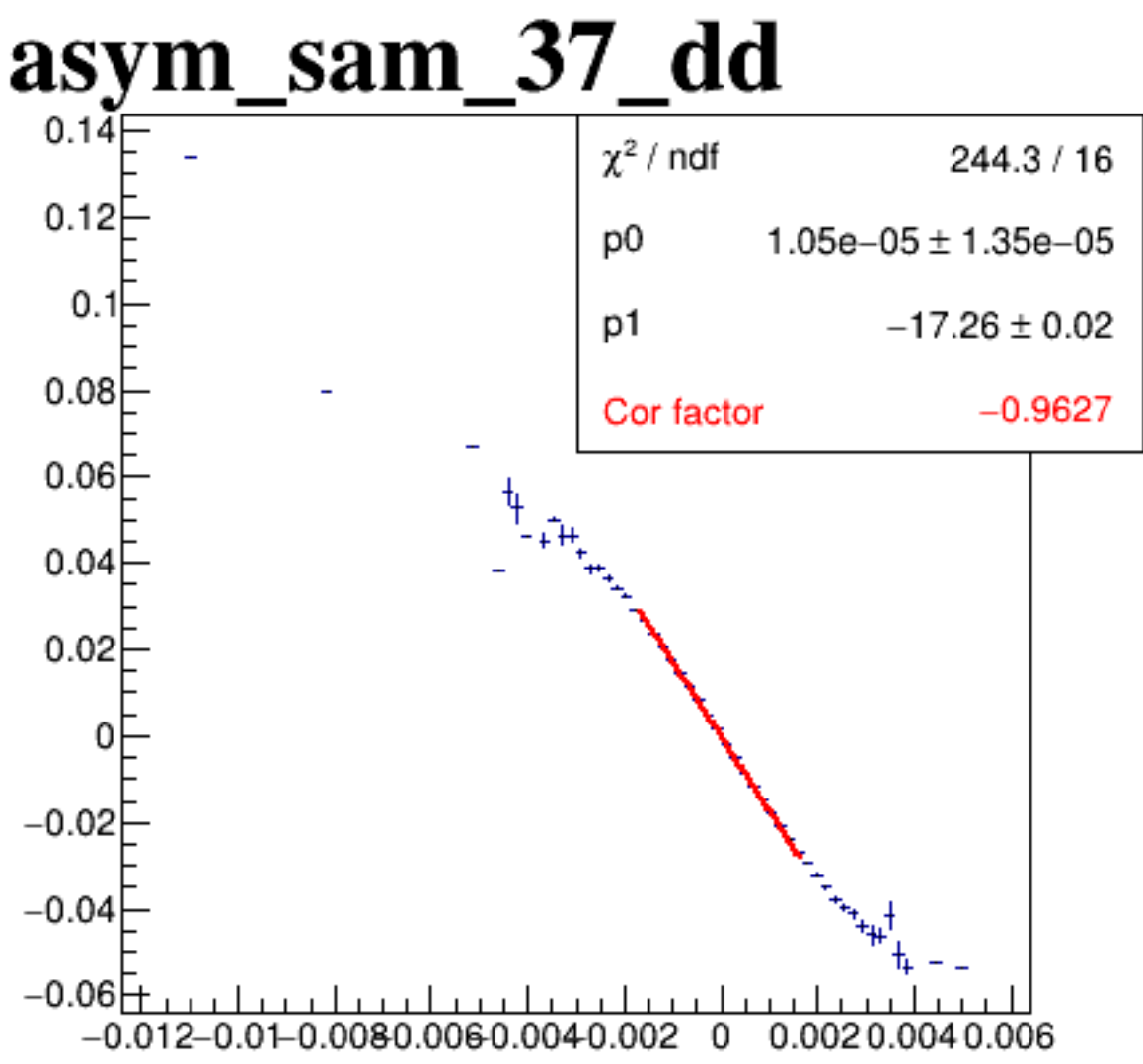
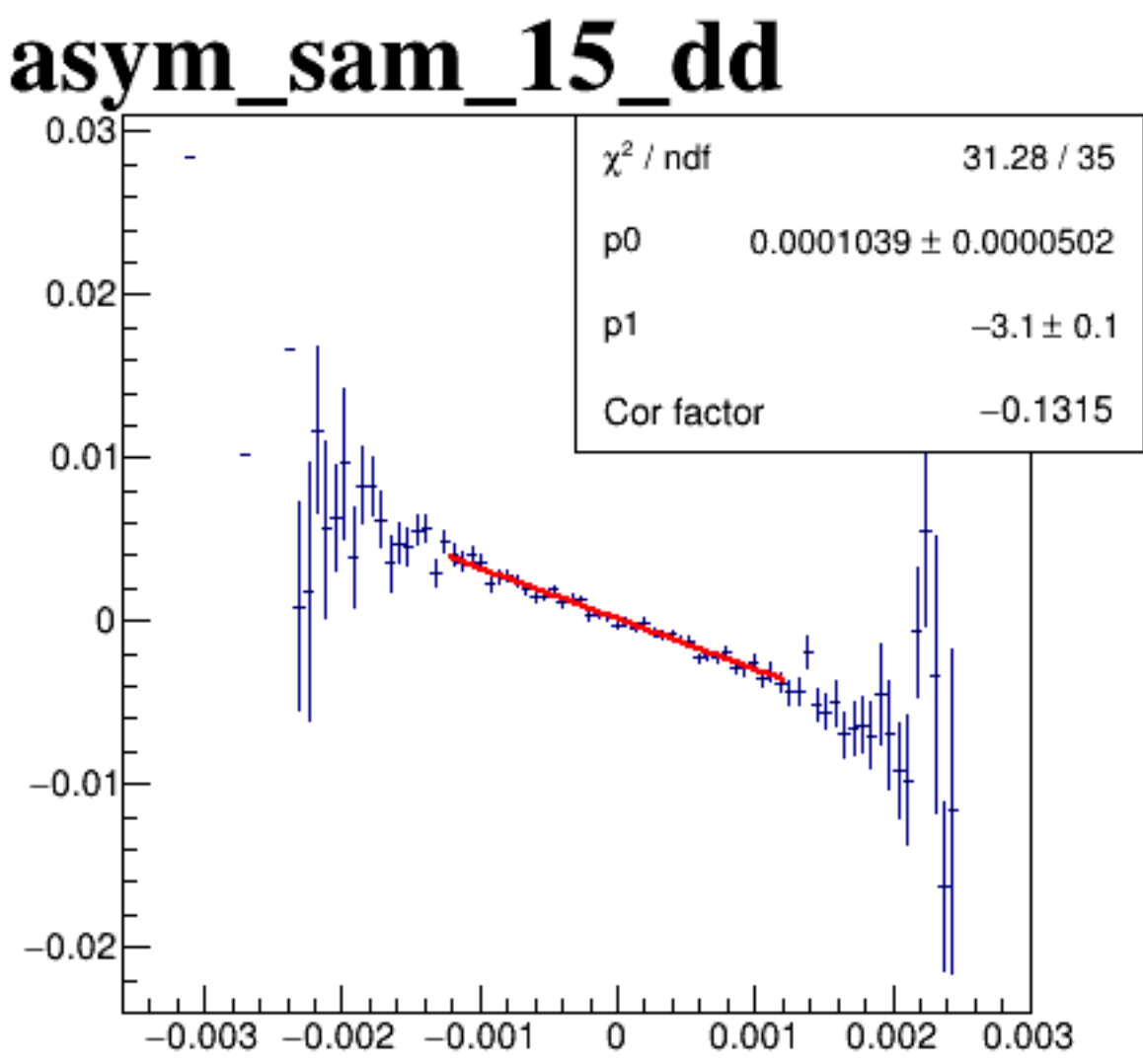
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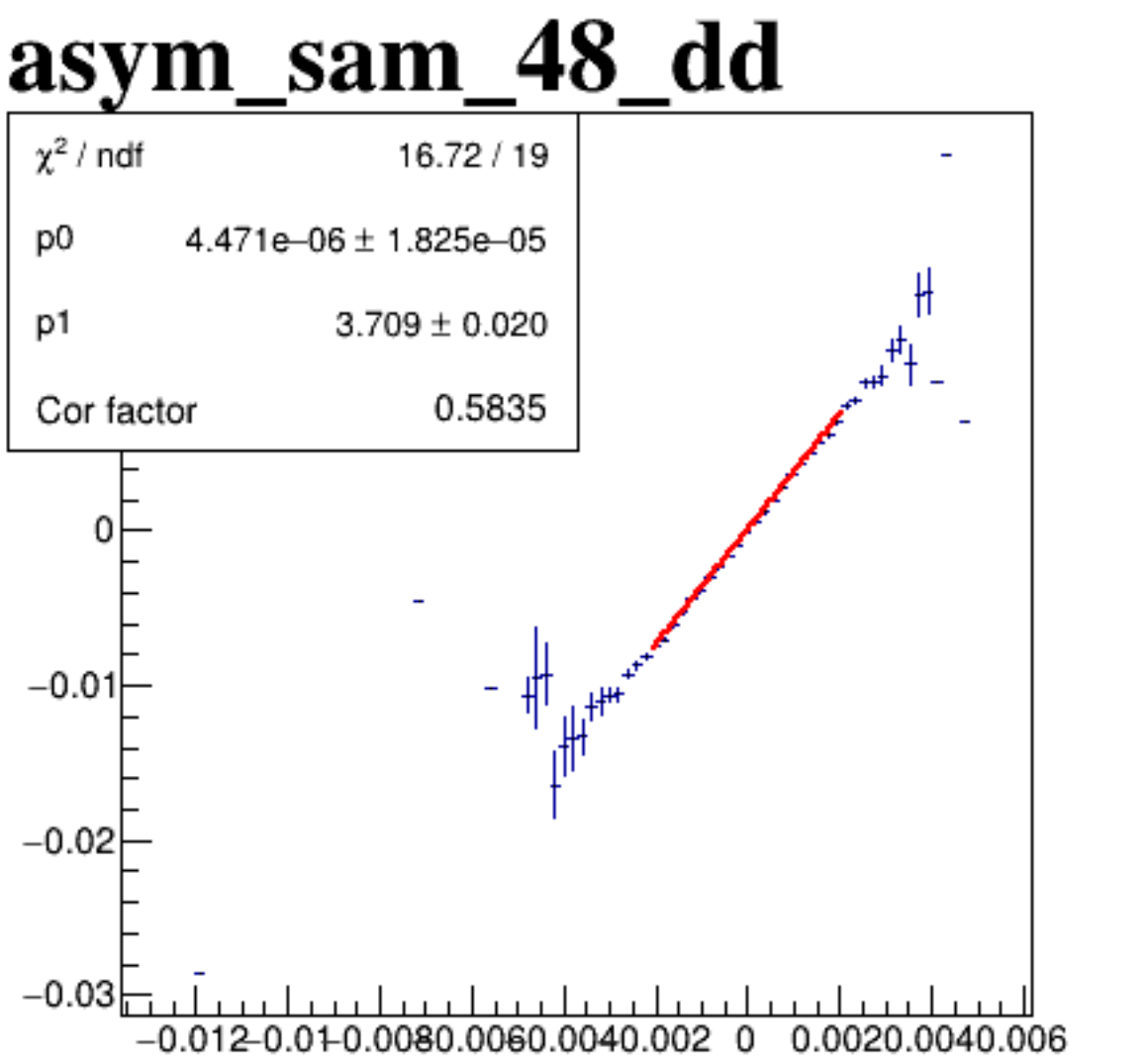
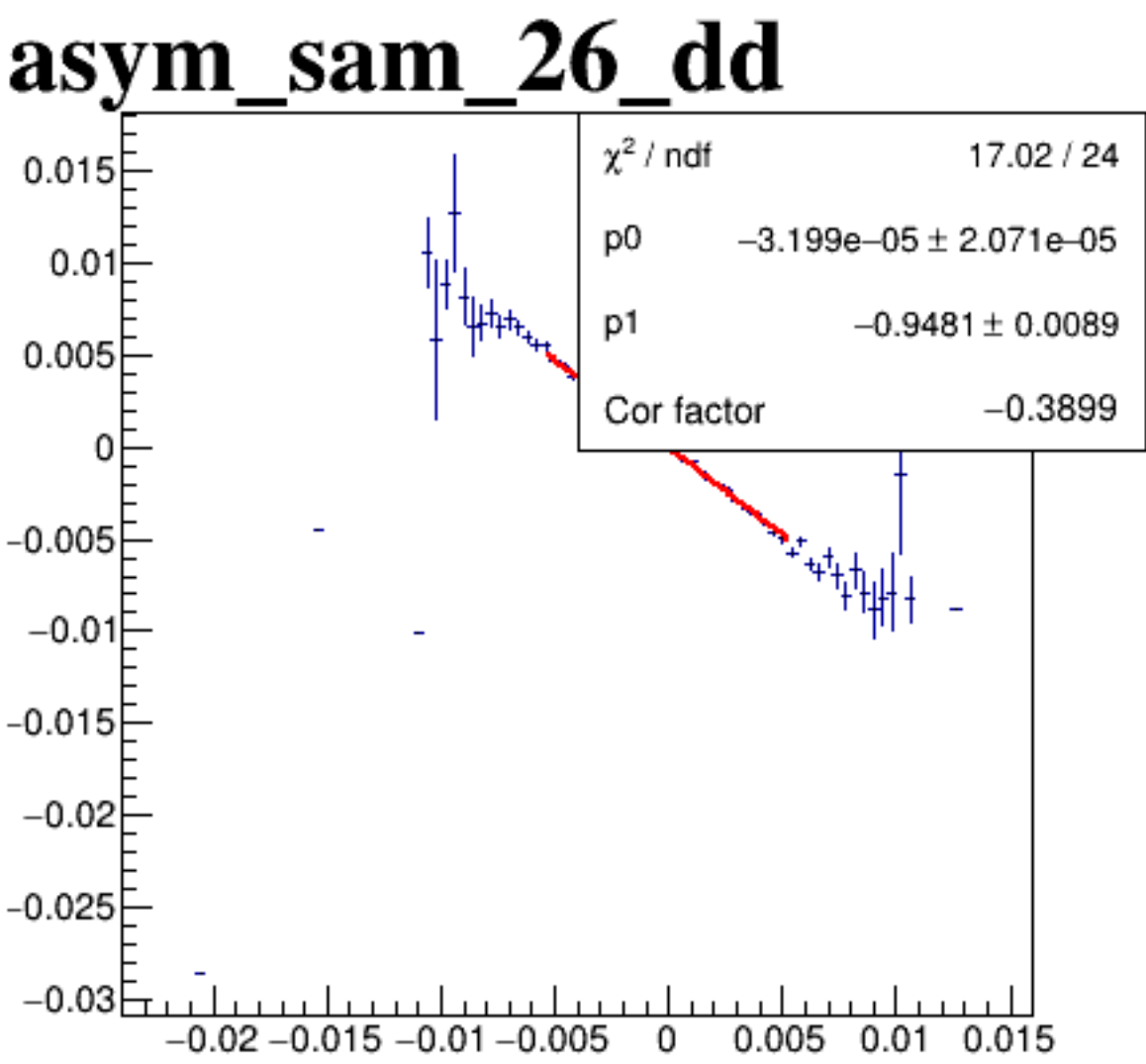
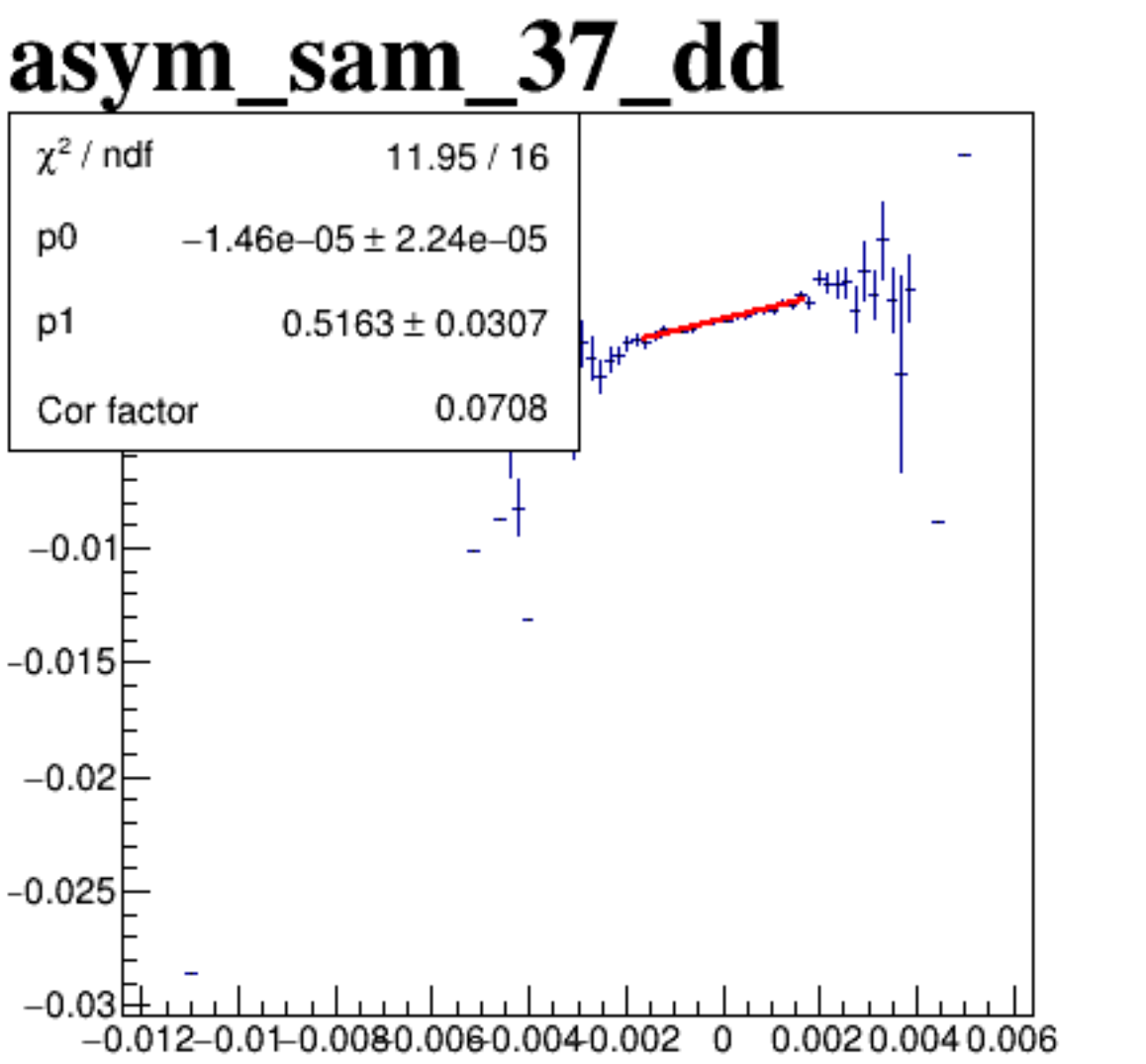
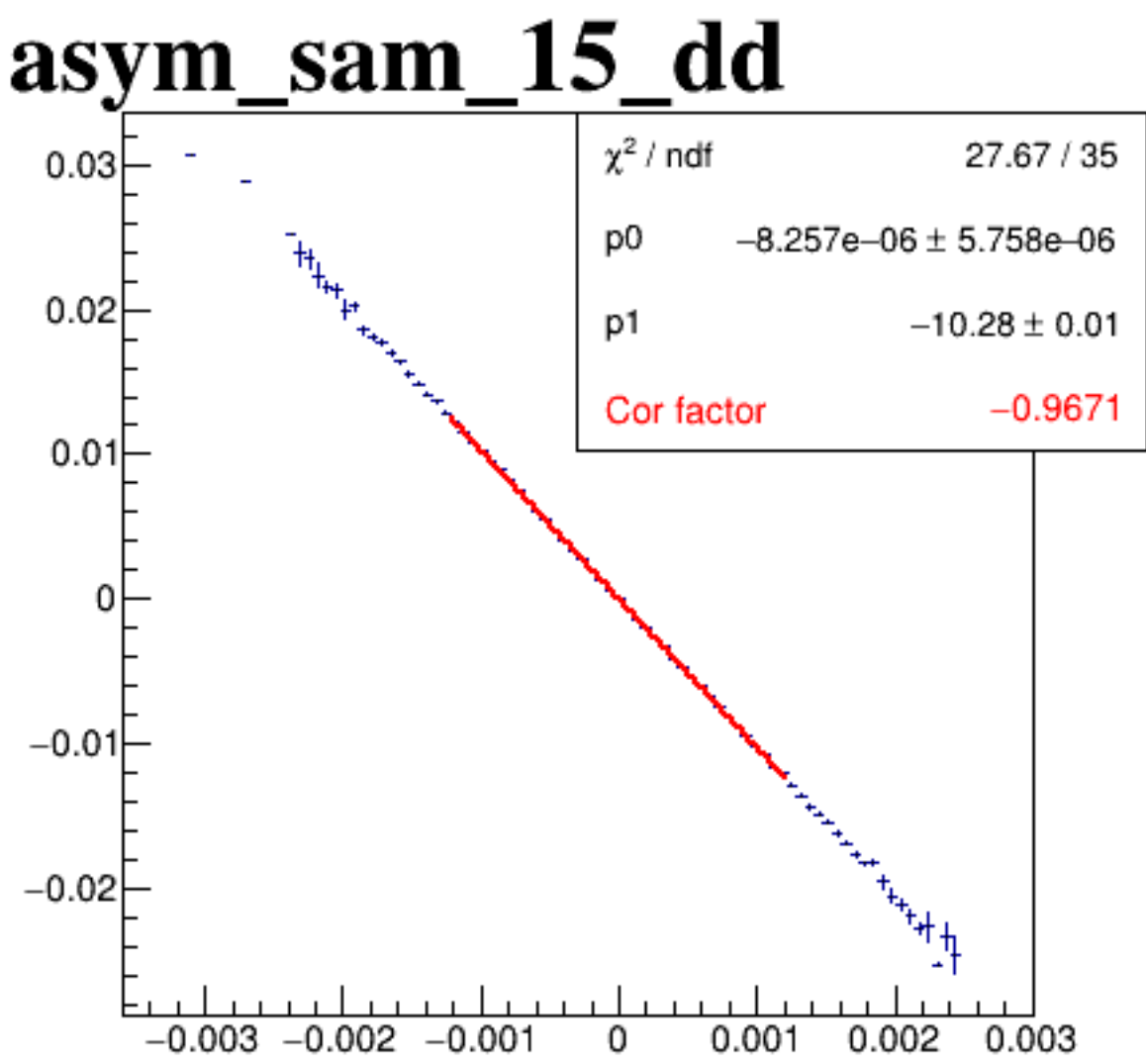
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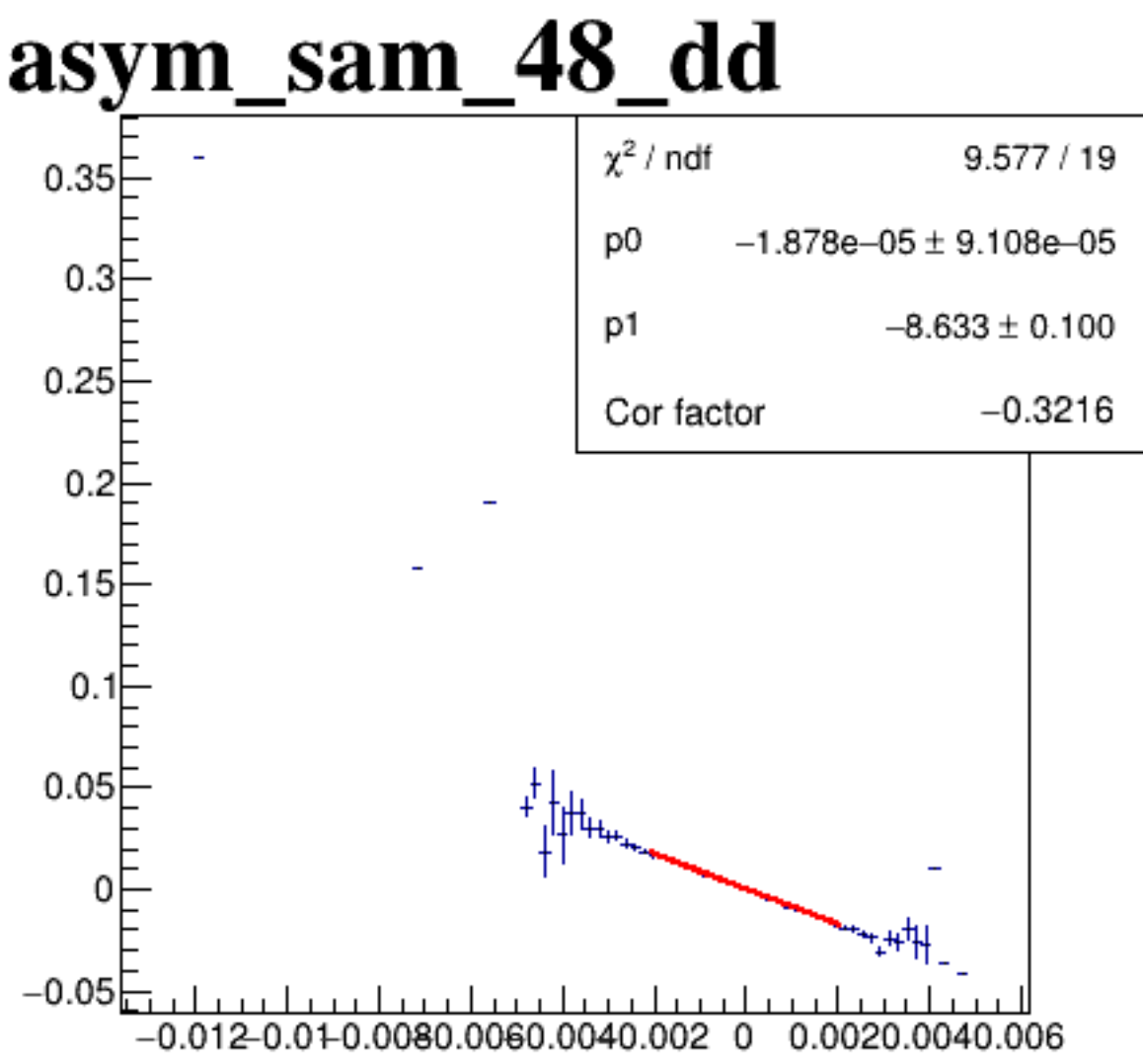
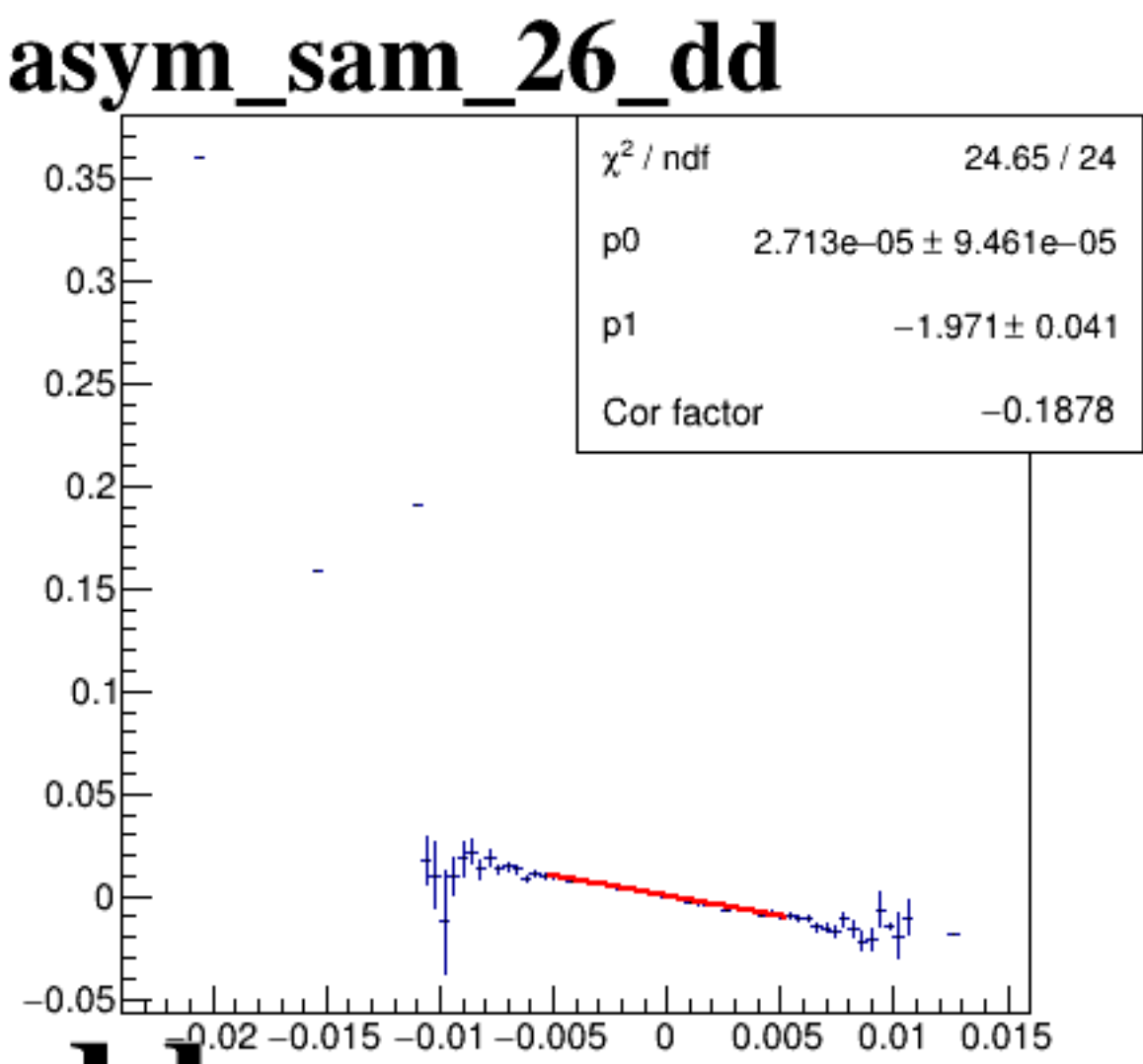
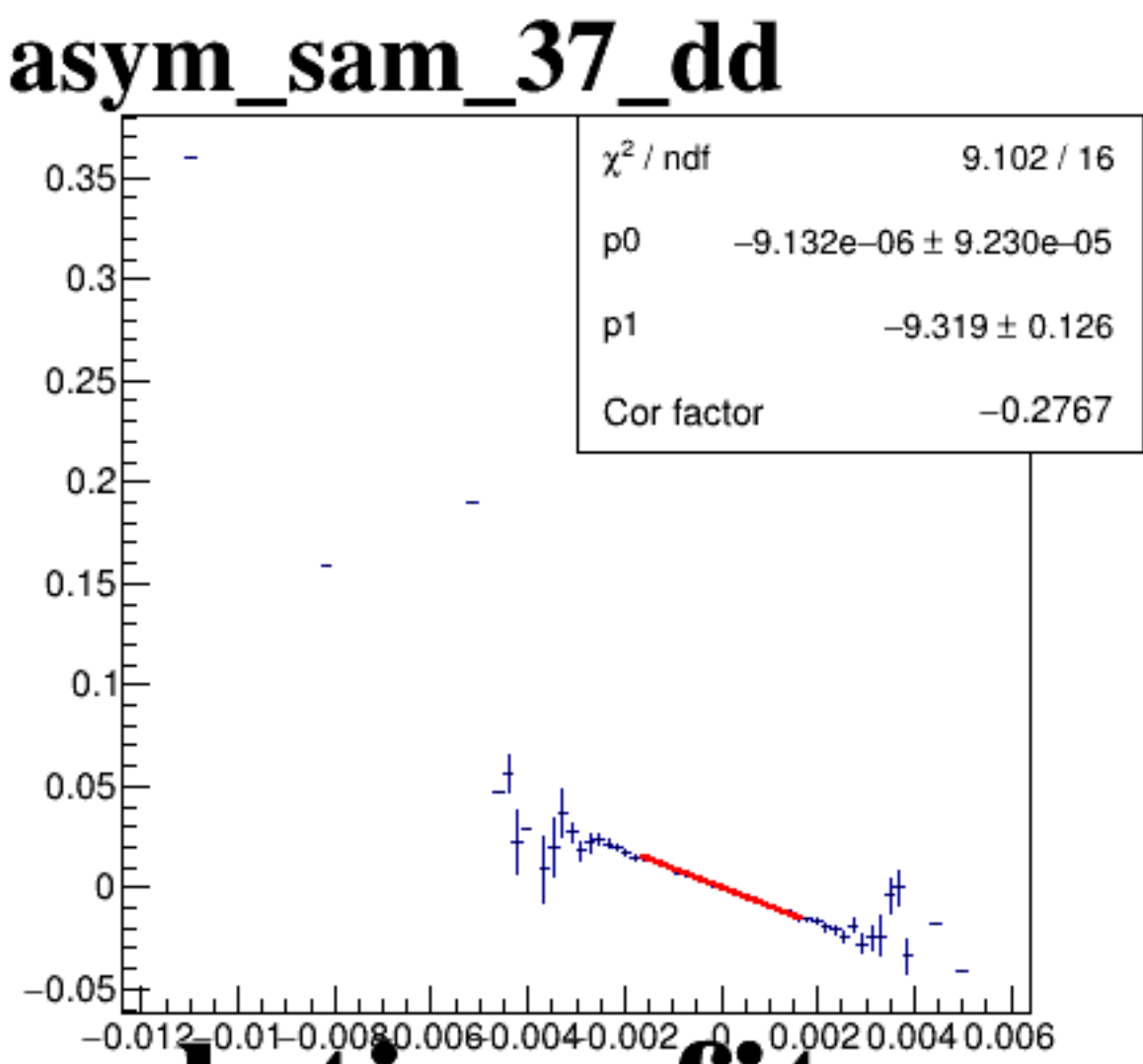
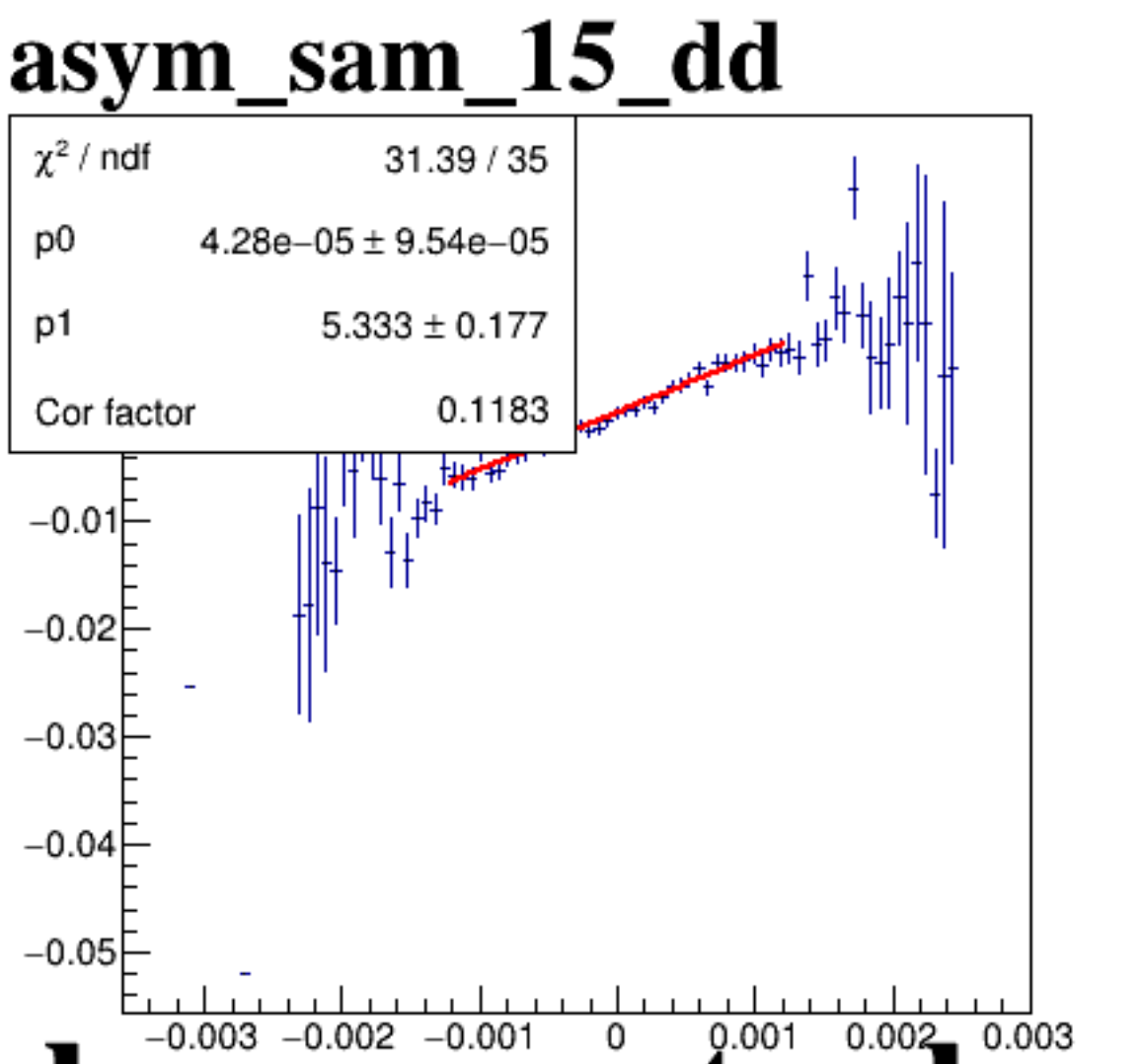
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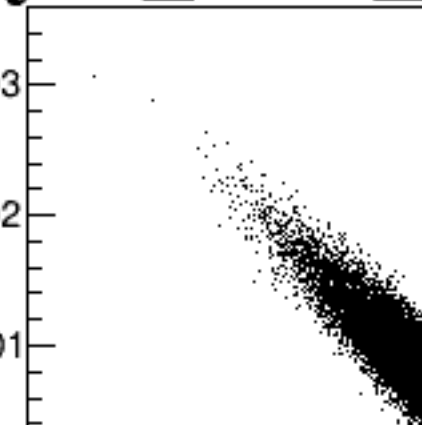
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A scatter plot showing the relationship between `asym_sam_37_dd` (y-axis) and `mulc.asym_sam_37_dd` (x-axis). The y-axis ranges from -0.05 to 0.15, and the x-axis ranges from -0.012 to 0.006. The data points form a dense, elongated cluster with a negative slope, indicating a strong negative correlation between the two variables.

A scatter plot showing the relationship between `asym_sam_26_dd` (y-axis) and `mulc.asym_sam_26_dd` (x-axis). The y-axis ranges from -0.05 to 0.15, and the x-axis ranges from -0.02 to 0.015. The data points form a dense, elongated elliptical cloud centered around (-0.005, 0.04), indicating a strong positive correlation between the two variables.

A scatter plot showing the relationship between `asym_sam_48_dd` (y-axis) and `mulc.asym_sam_48_dd` (x-axis). The y-axis ranges from -0.05 to 0.15, and the x-axis ranges from -0.012 to 0.006. The data points form a dense, elongated elliptical cloud centered around (0, 0), indicating a strong positive correlation.



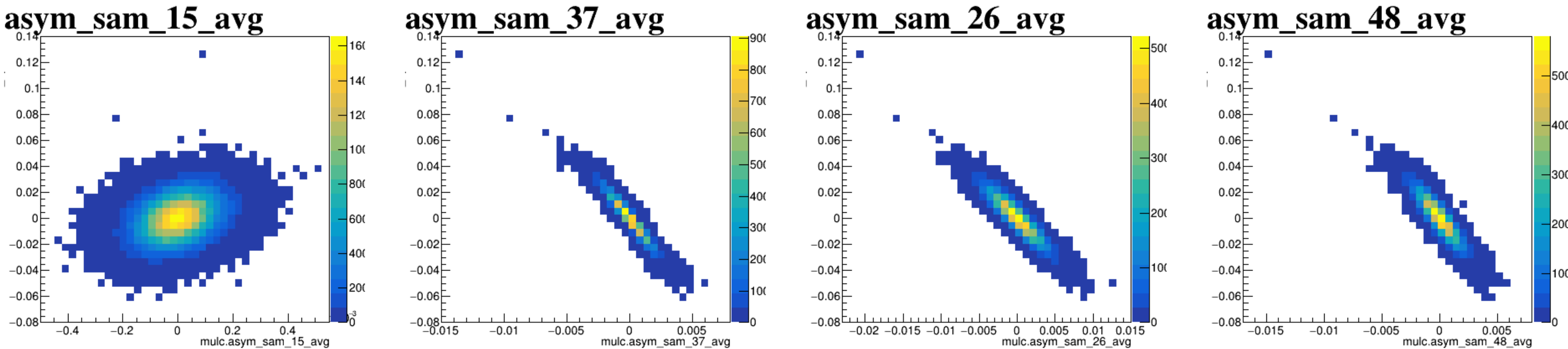
A scatter plot showing the relationship between `asym_sam_15_dd` (y-axis) and `mulc.asym_sam_15_dd` (x-axis). The plot displays a dense, elongated cloud of points, indicating a strong positive correlation. The x-axis ranges from approximately -0.003 to 0.003, and the y-axis ranges from approximately -0.03 to 0.03. The data points are concentrated along a diagonal line passing through the origin.

asym_sam_37_dd

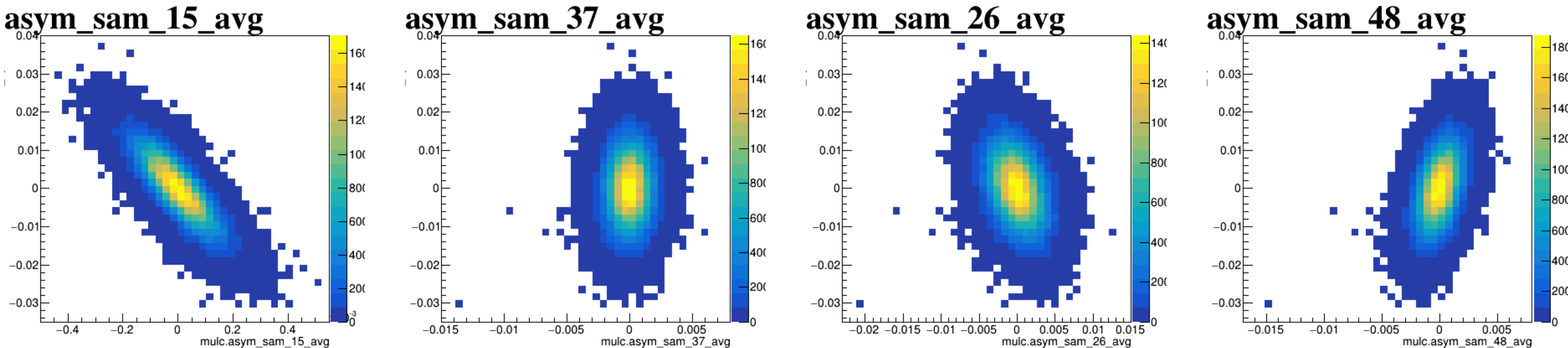
Scatter plot showing the distribution of data points. The x-axis is labeled 'mulc.asym_sam_37_dd' and ranges from -0.012 to 0.006. The y-axis ranges from -0.03 to 0.03. The data points form a dense, elliptical cloud centered around (0,0).

run5454_000_diff_bpm_mutual_correlation_scat_sam_dds.png

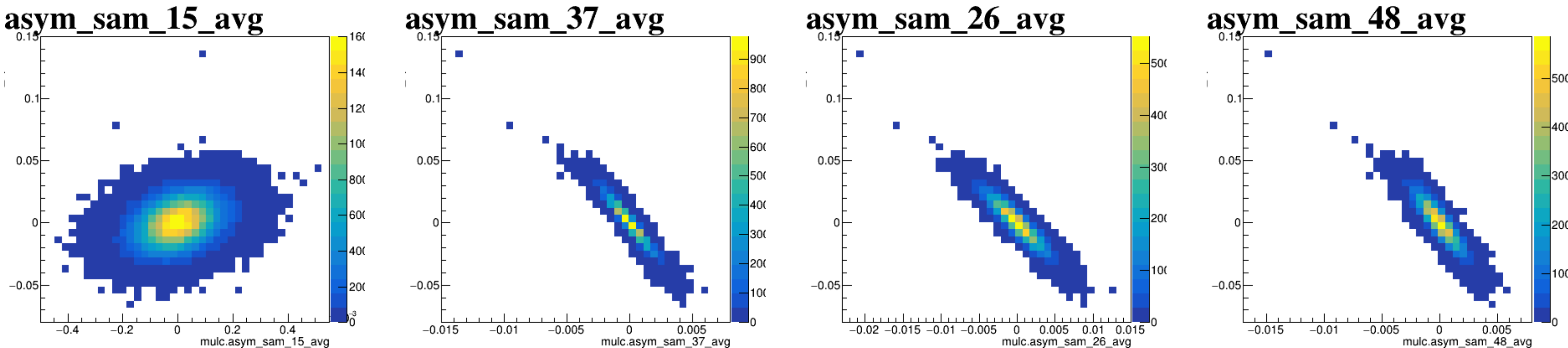
diff_bpm4aX



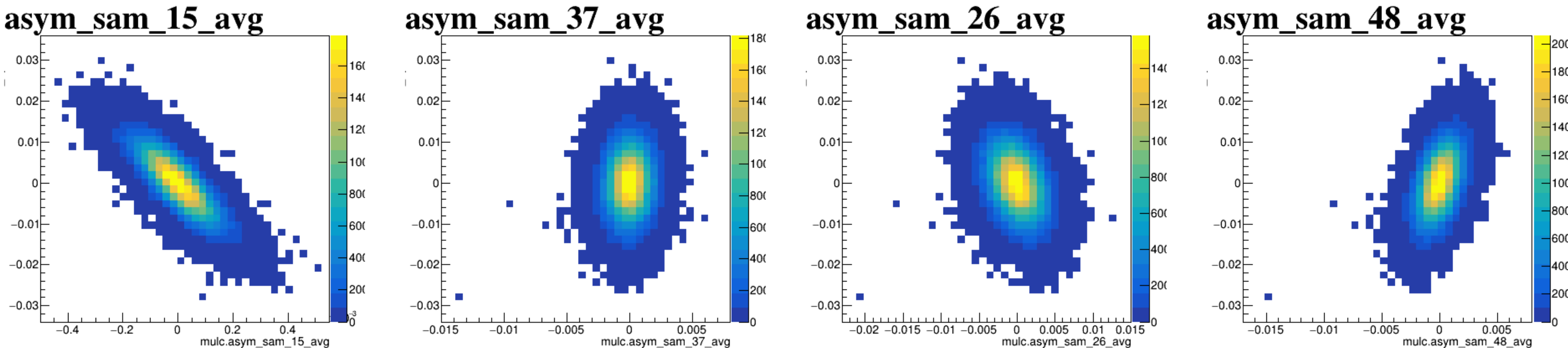
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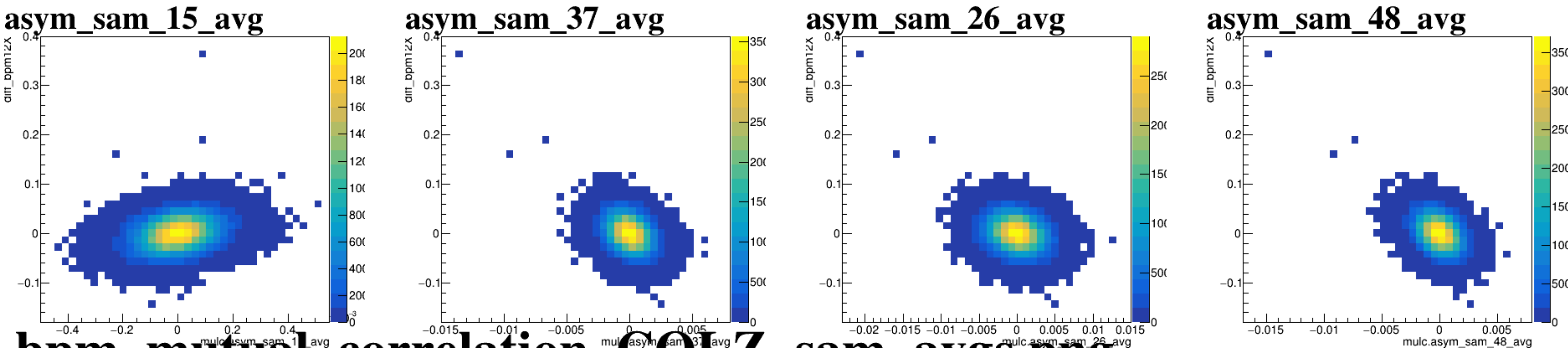
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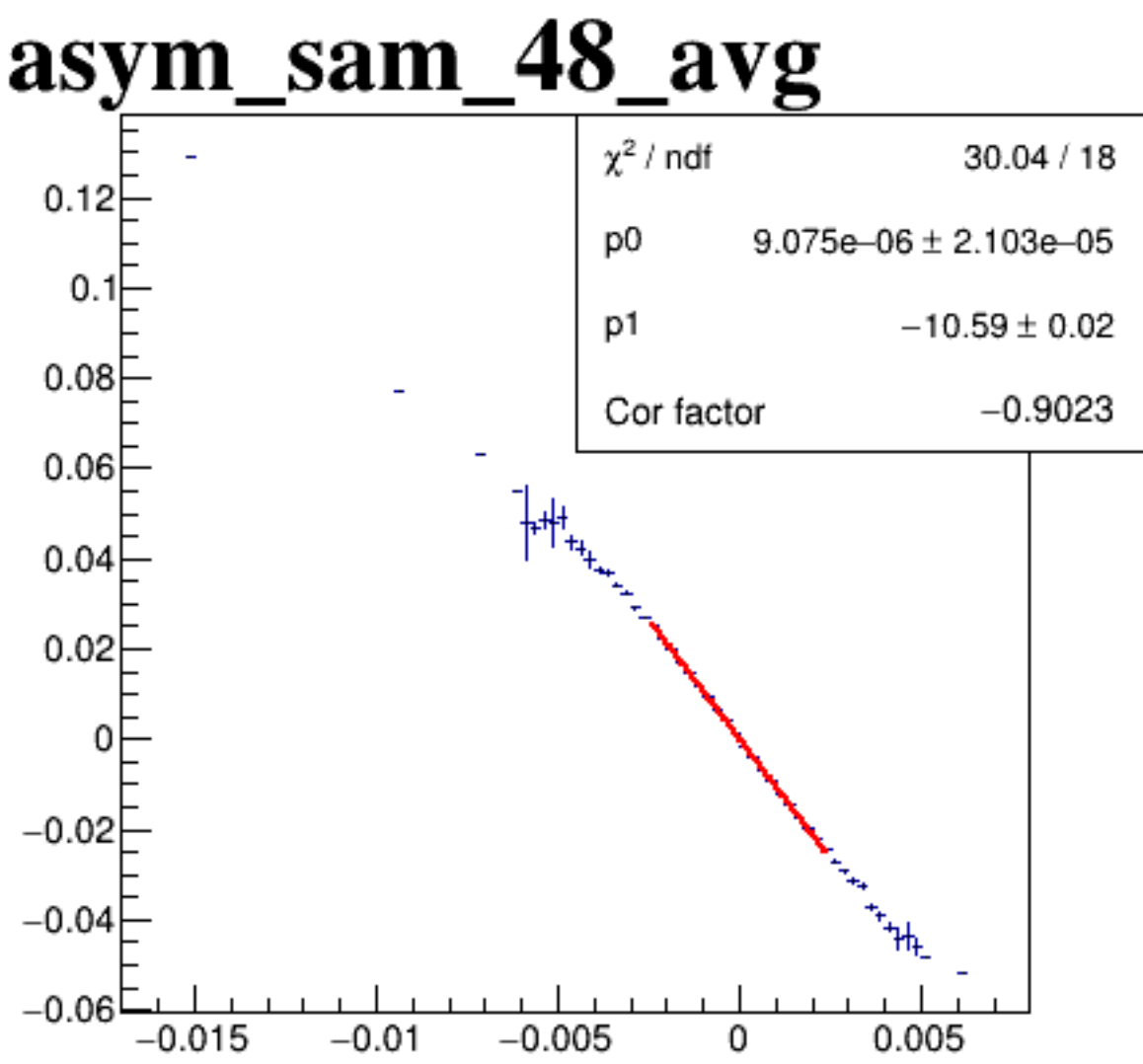
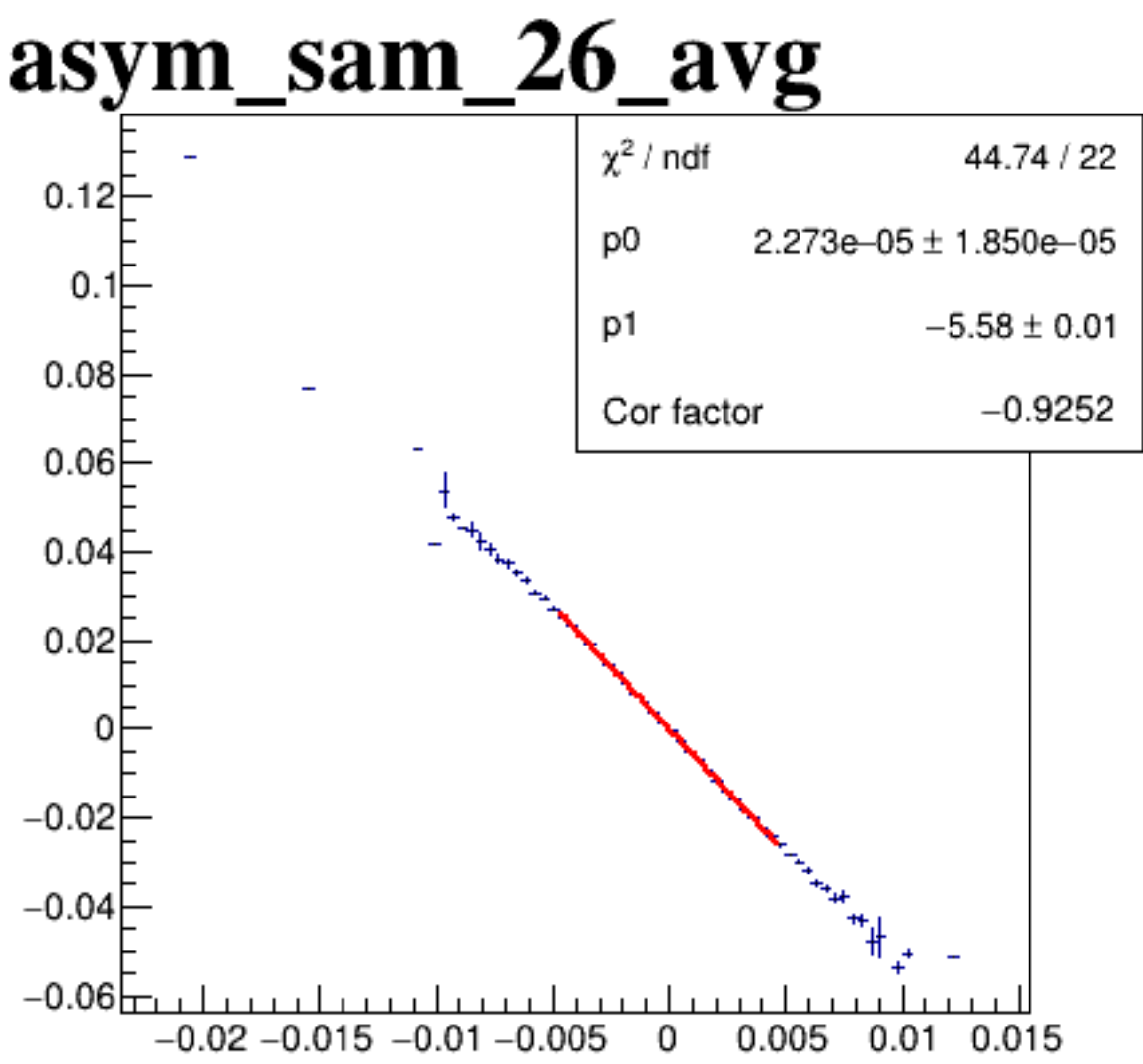
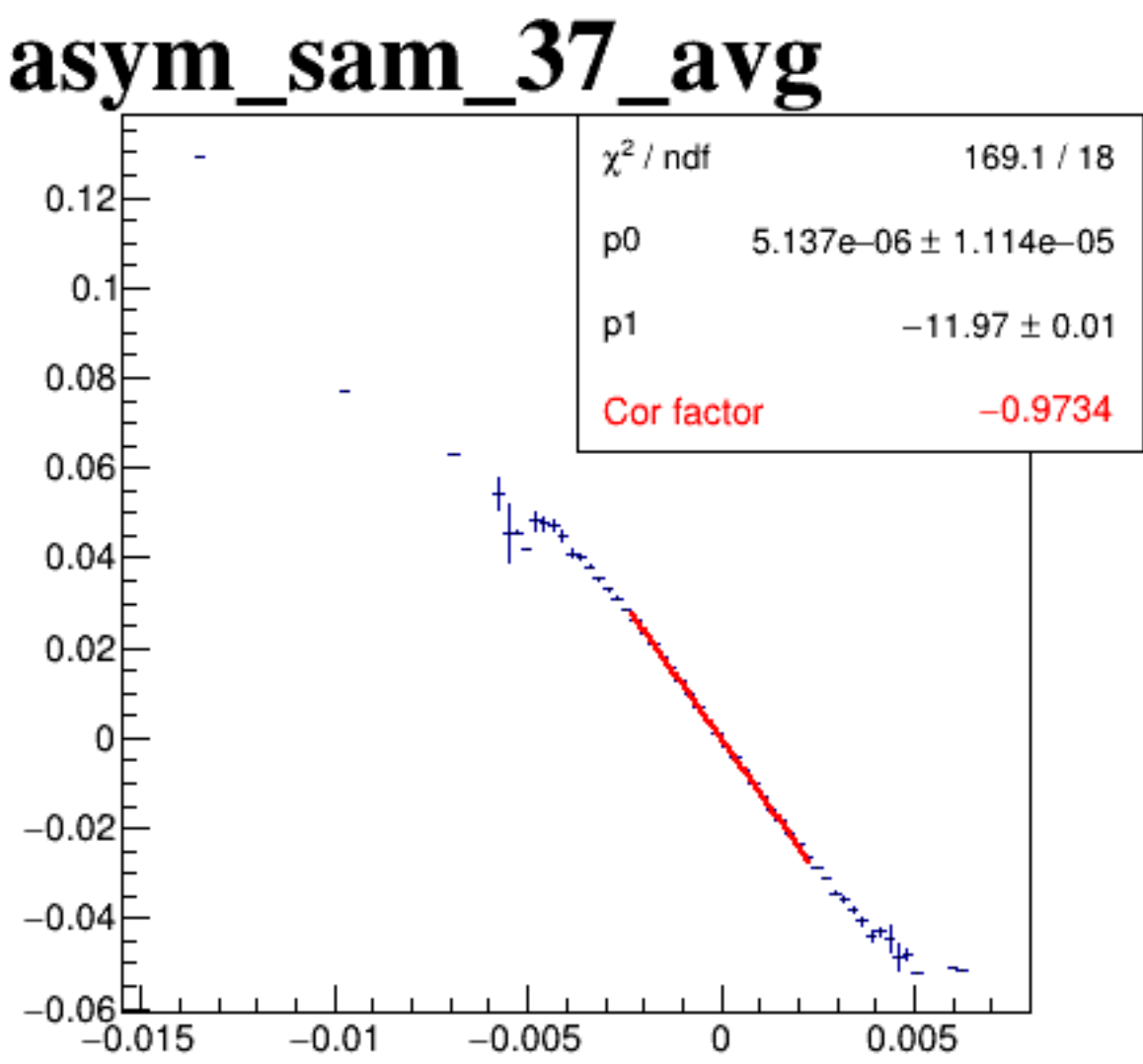
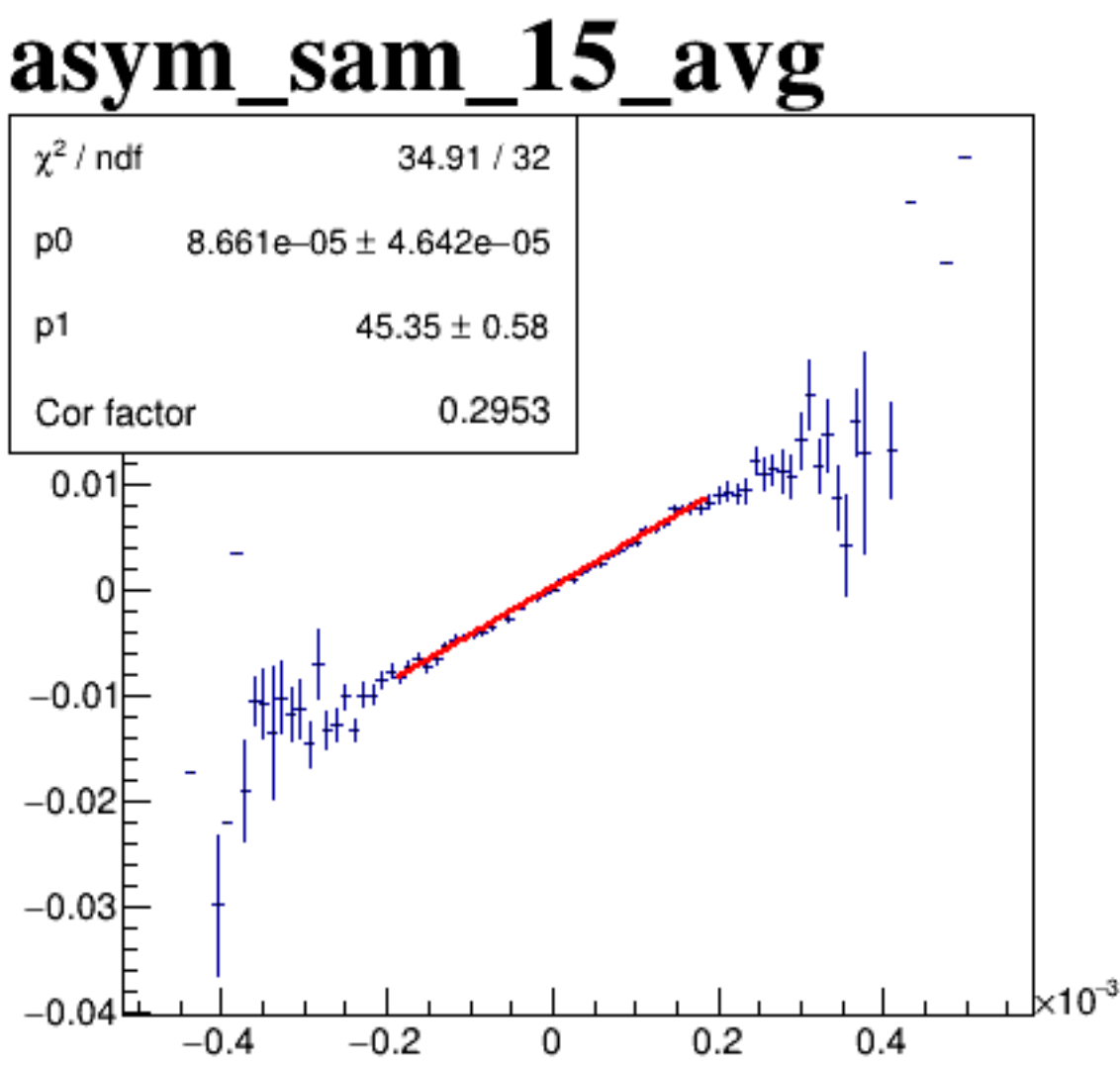
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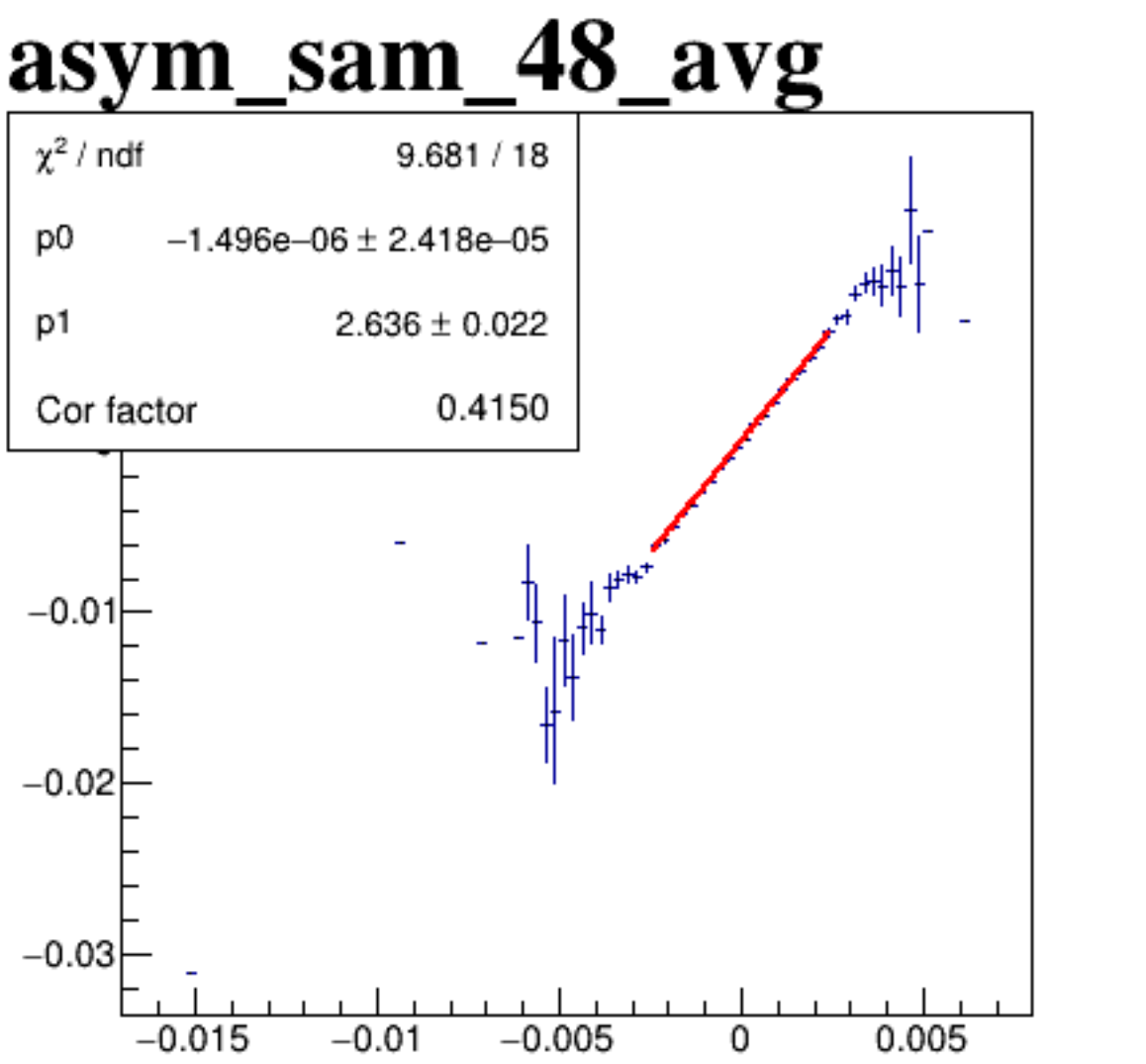
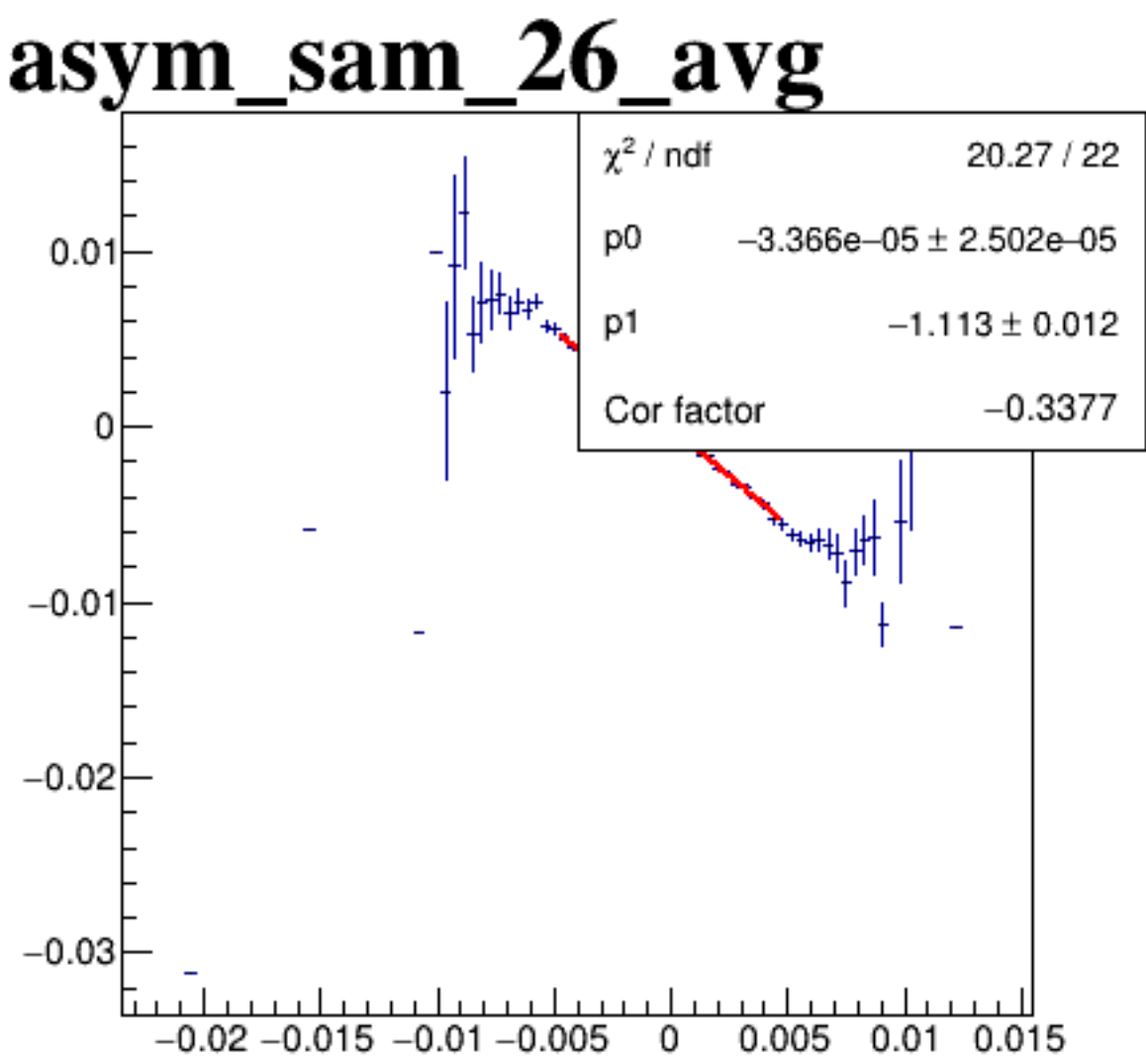
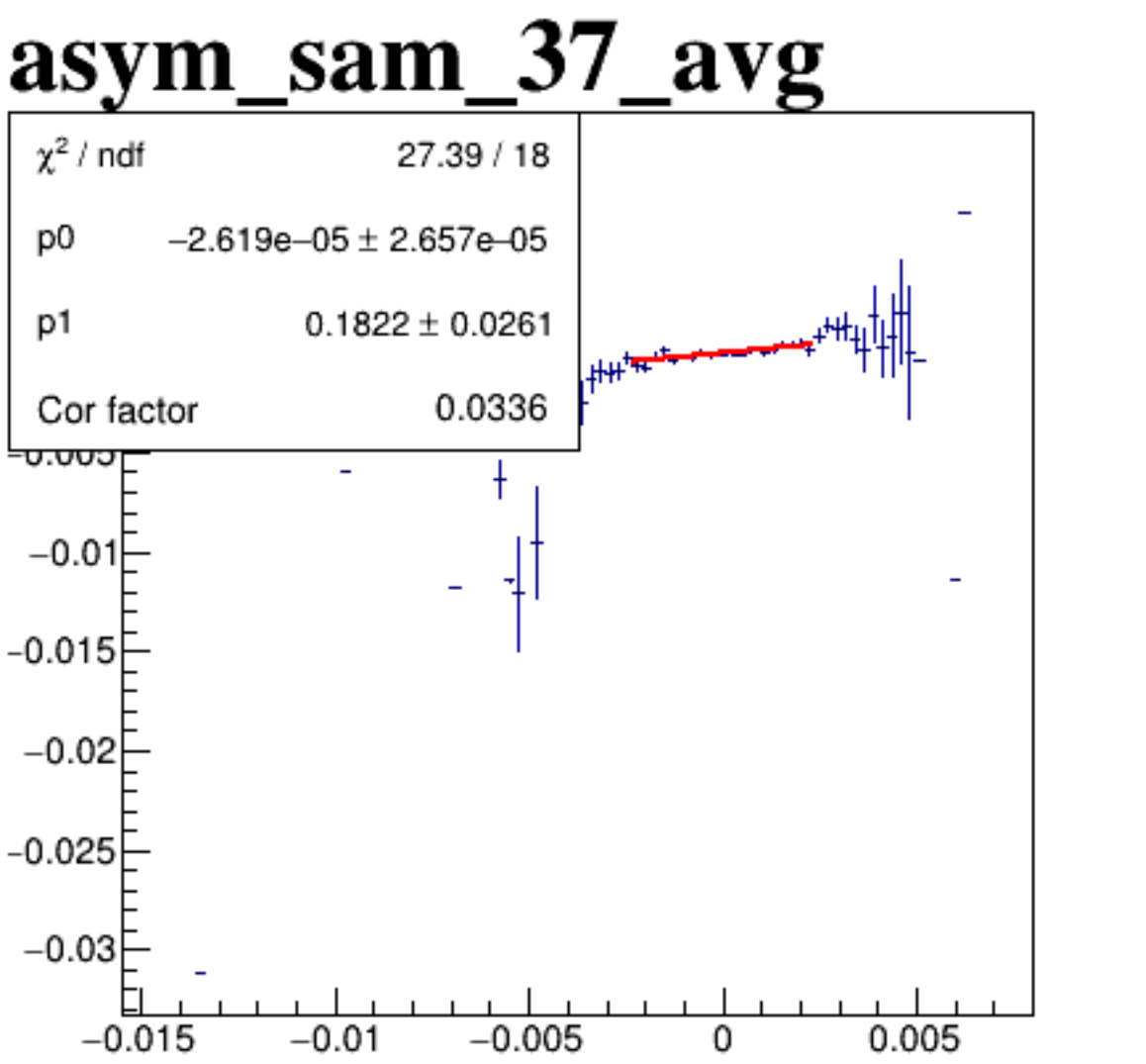
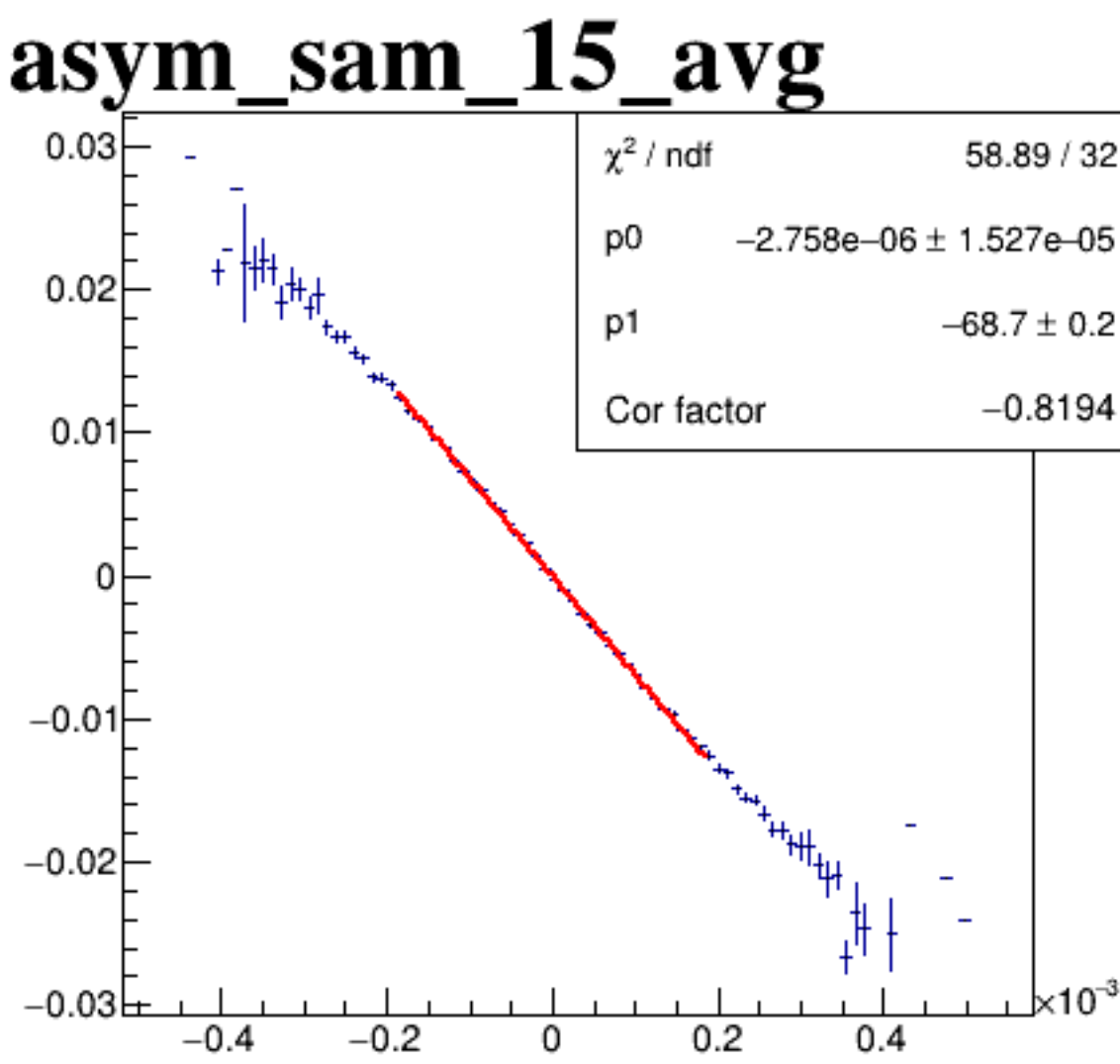
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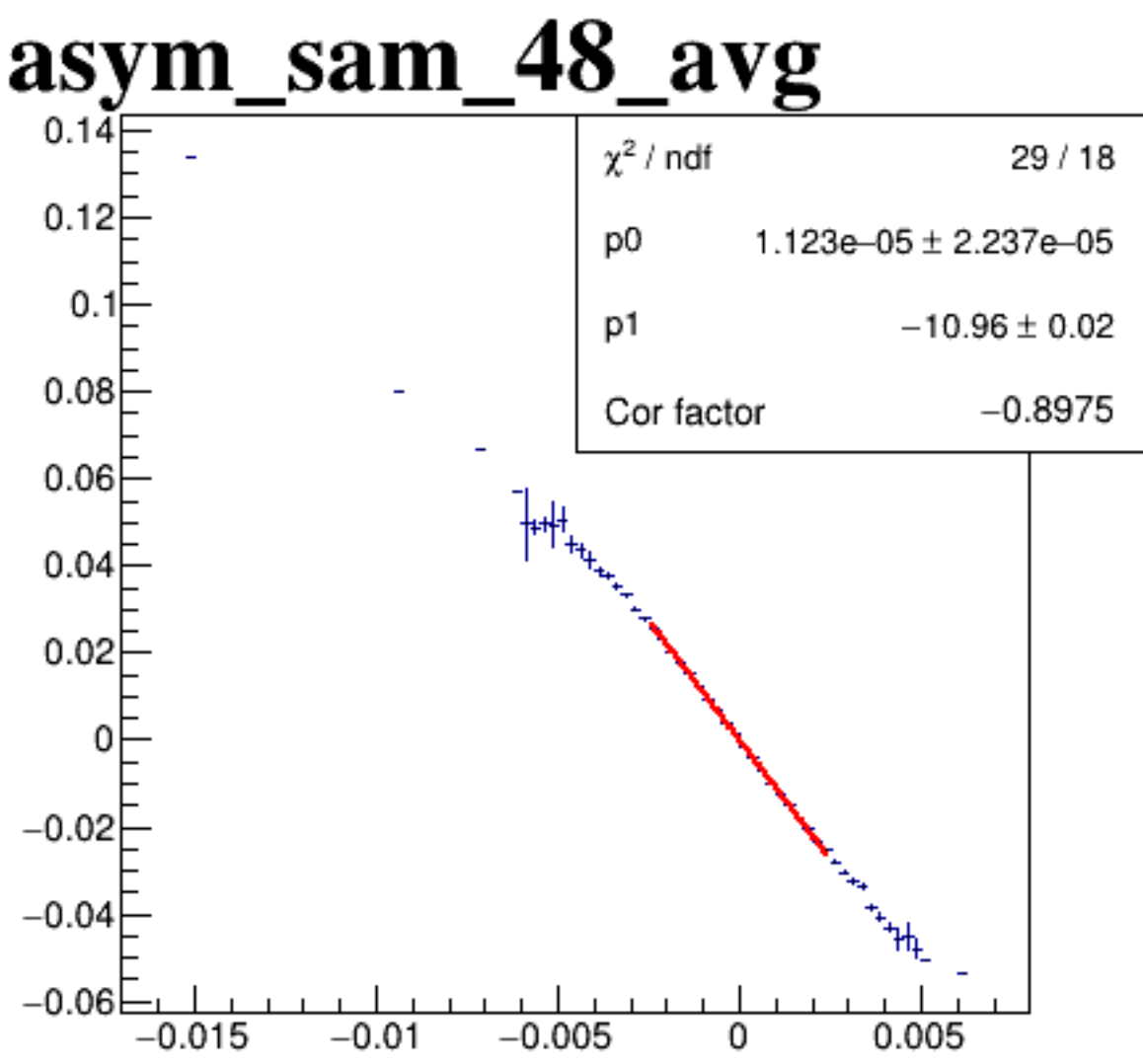
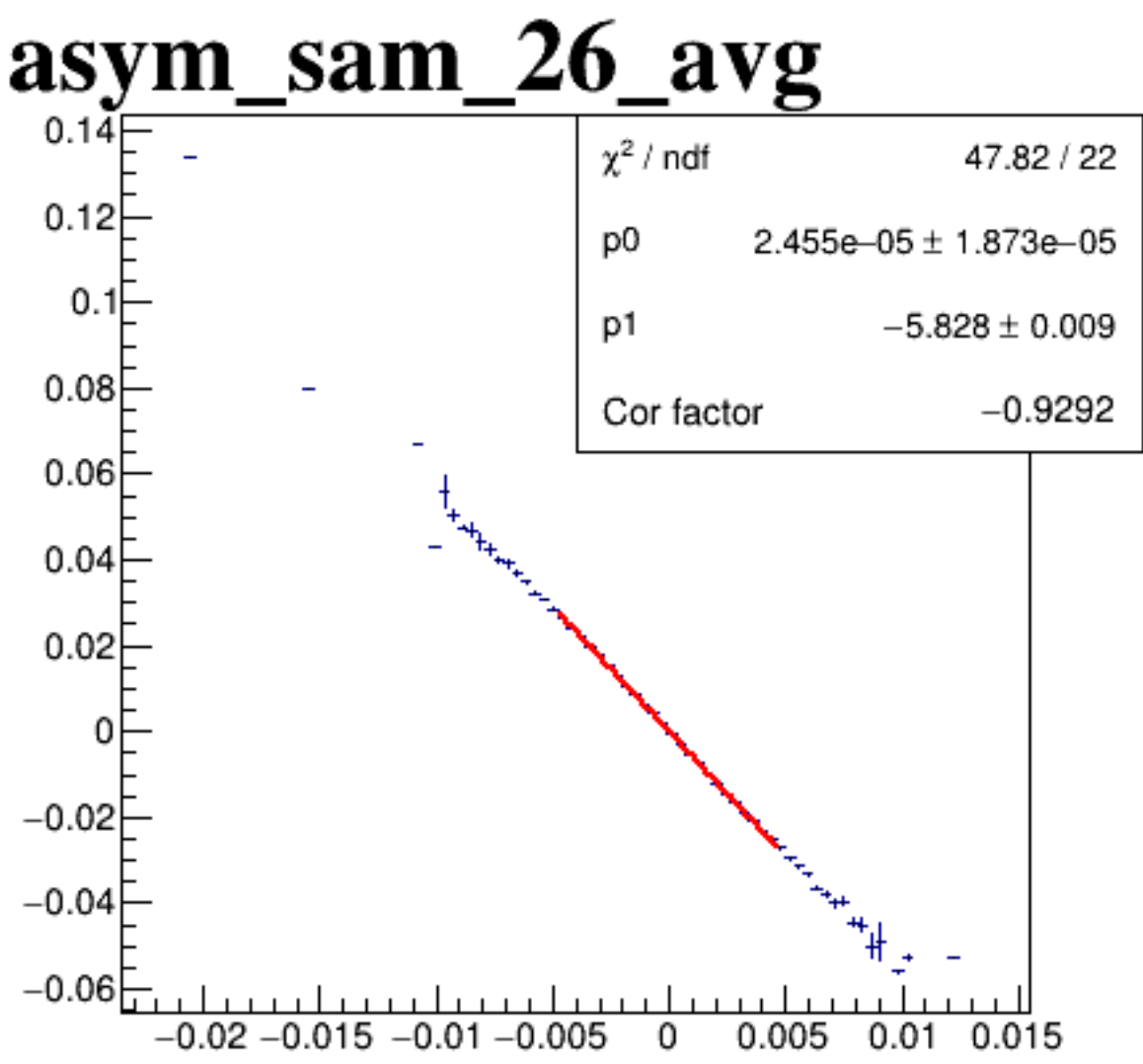
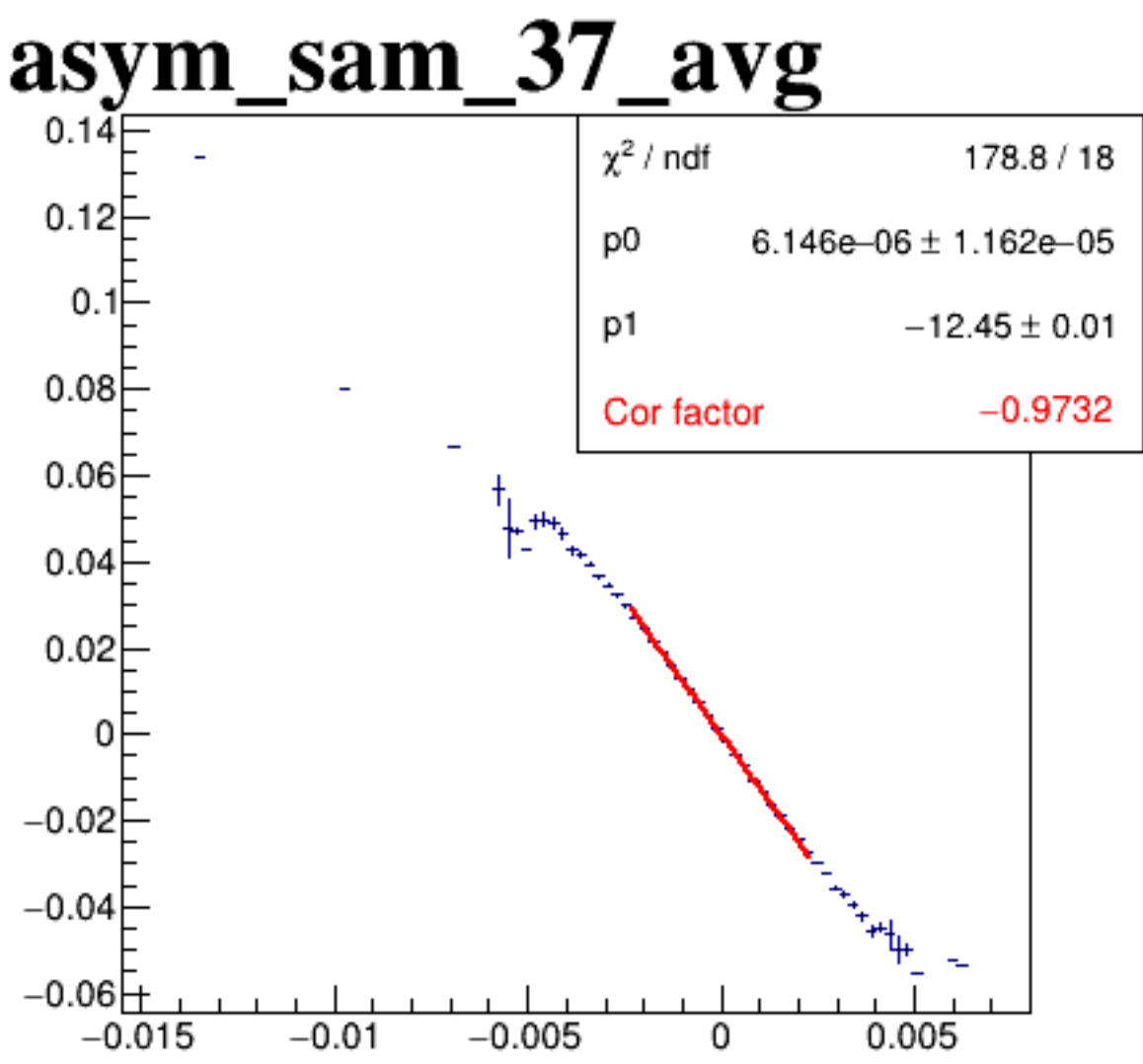
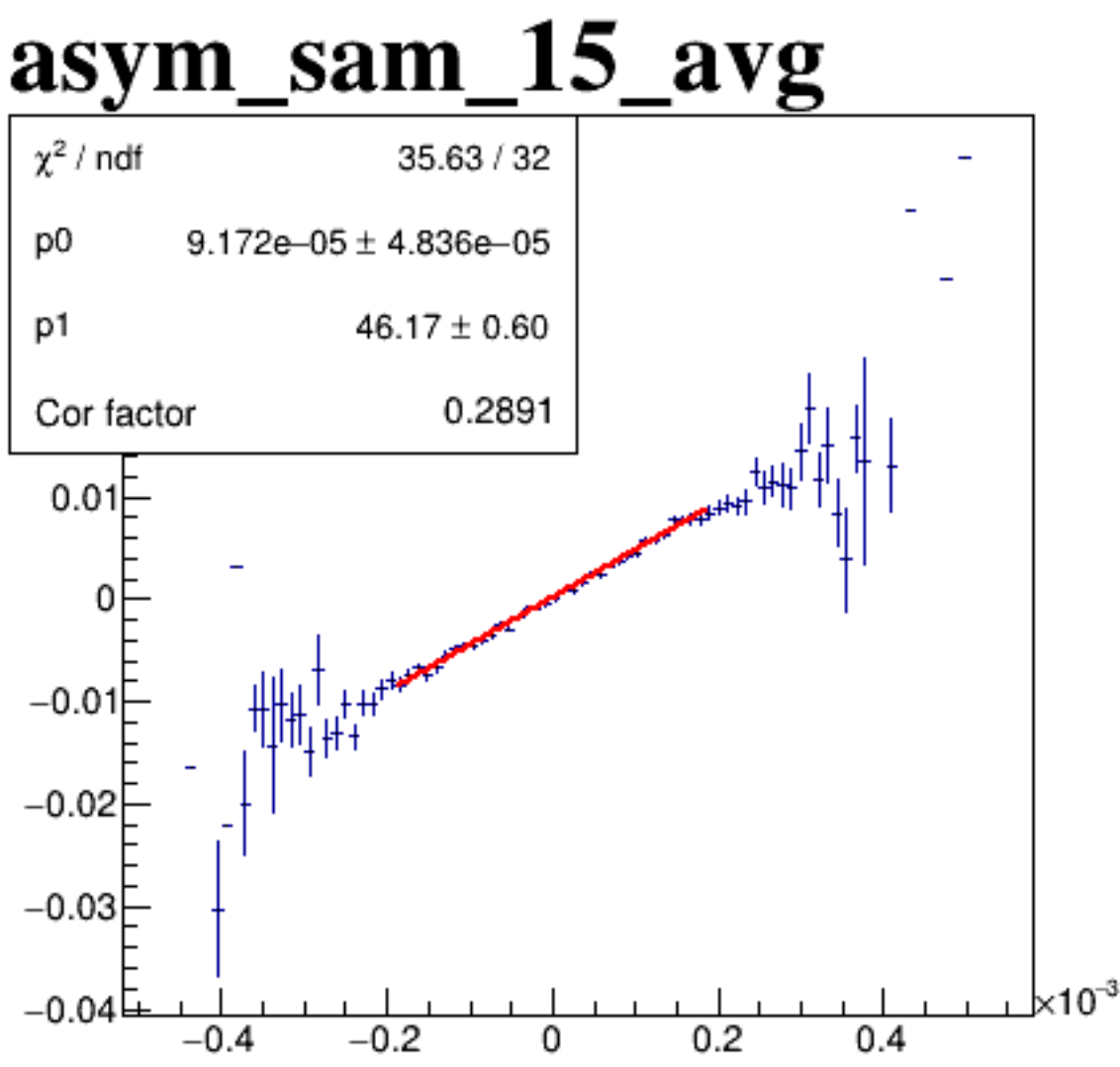
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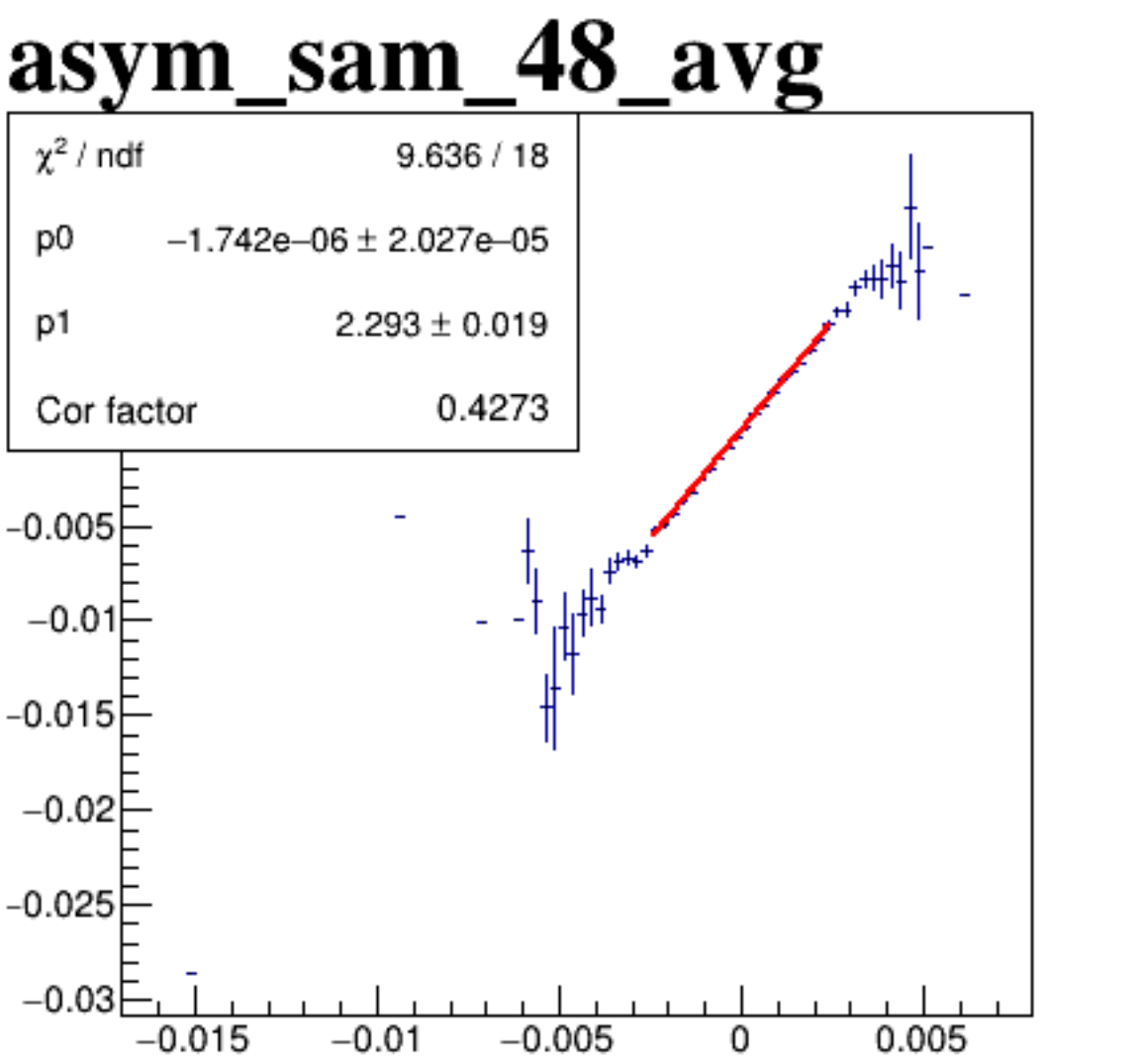
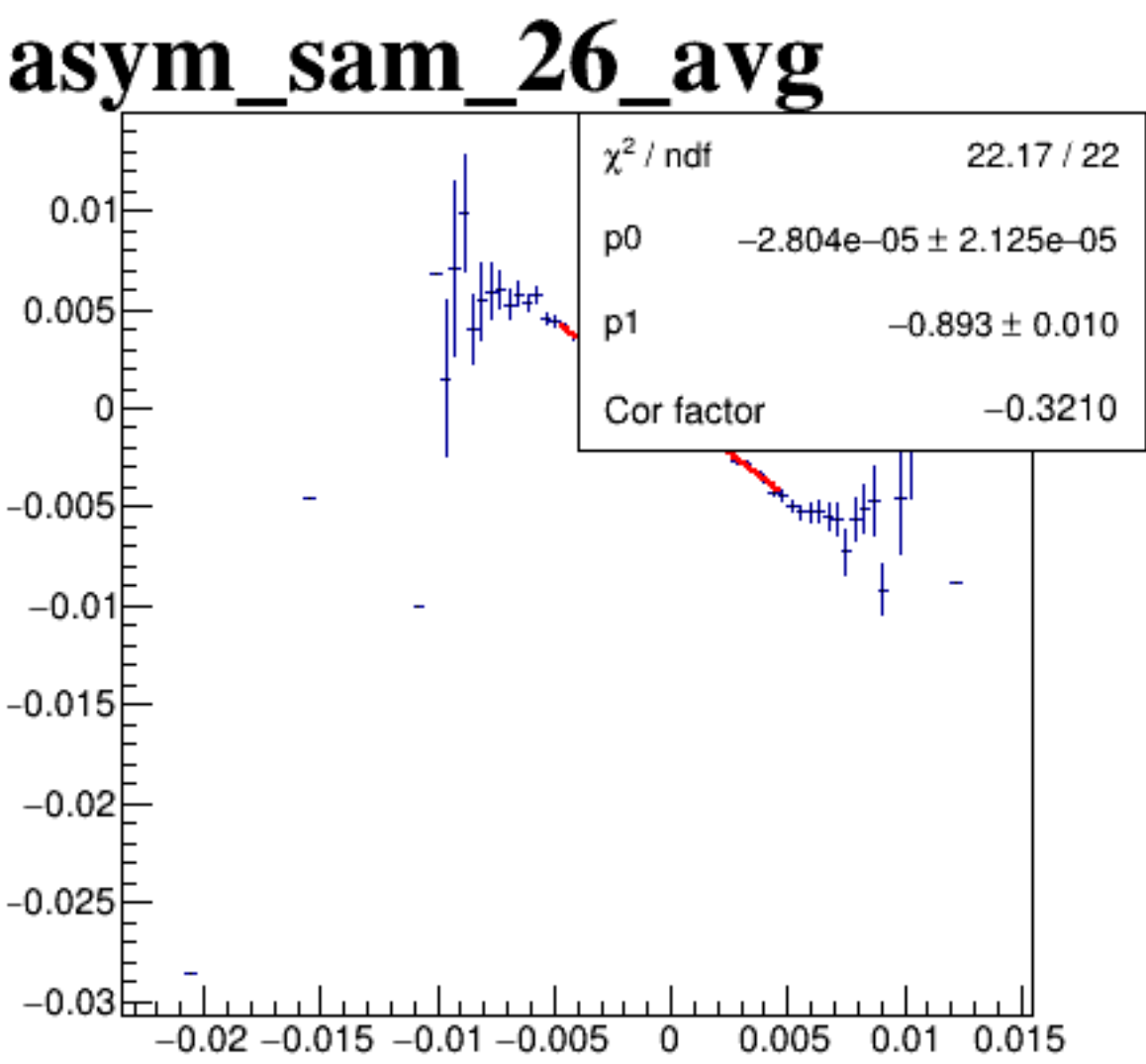
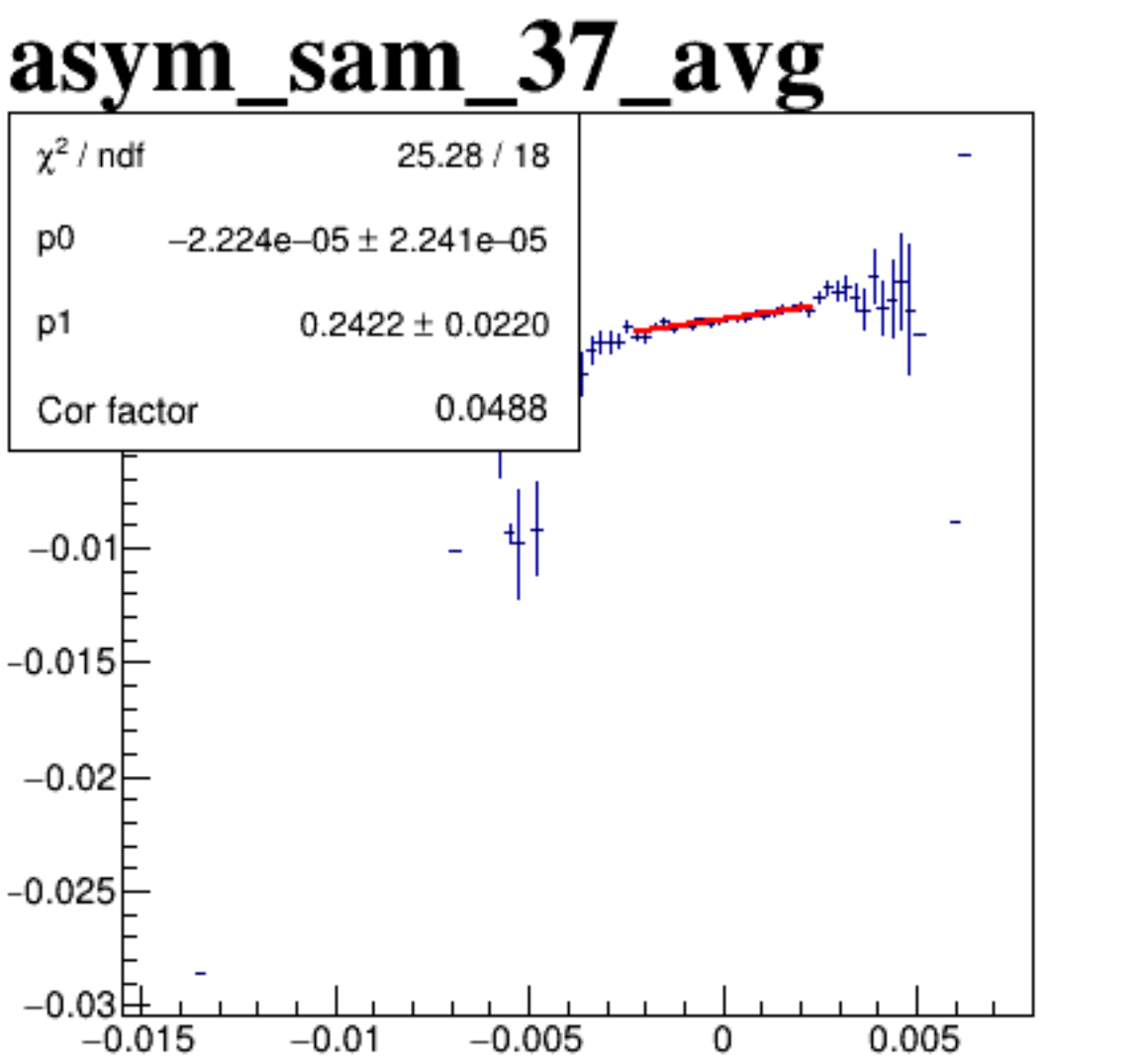
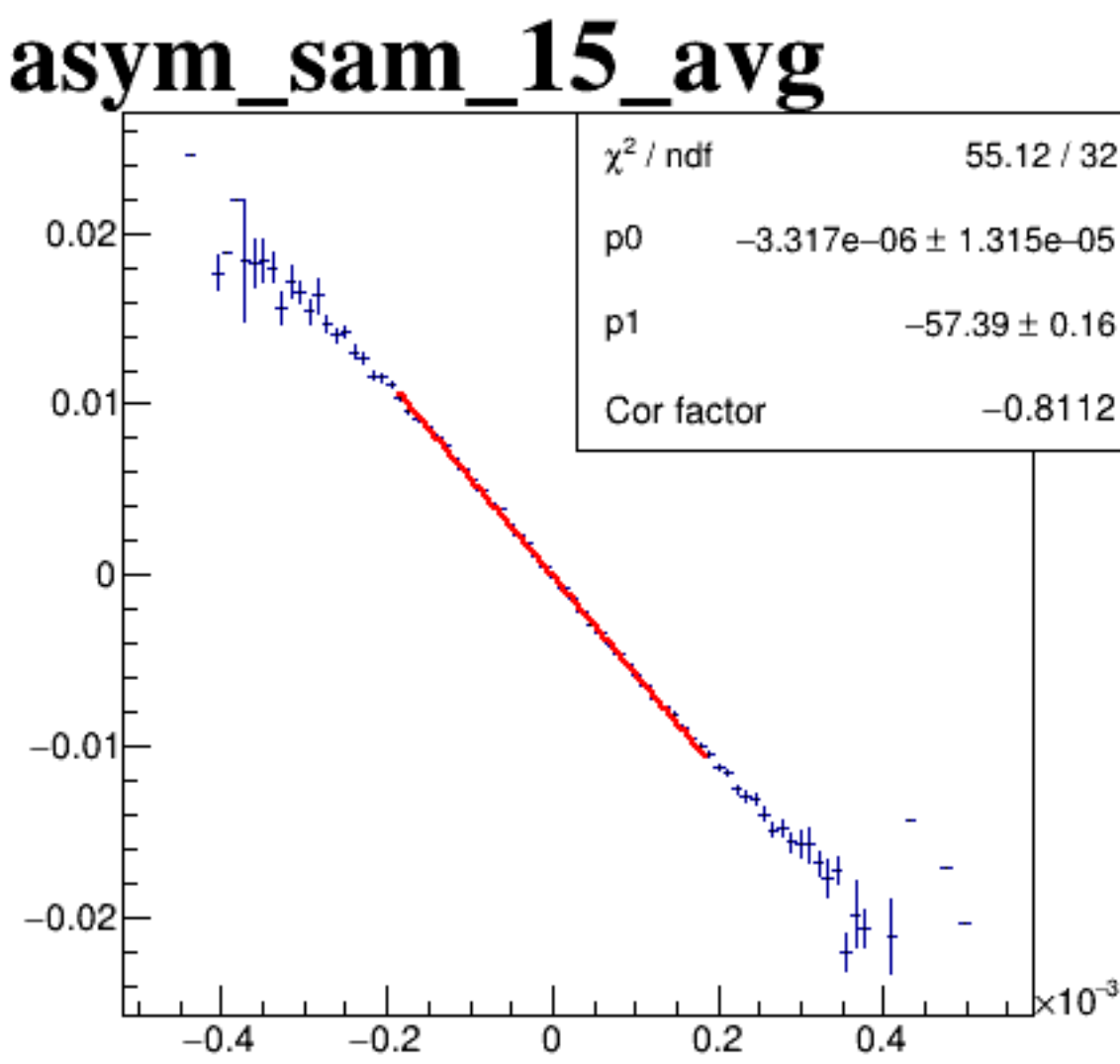
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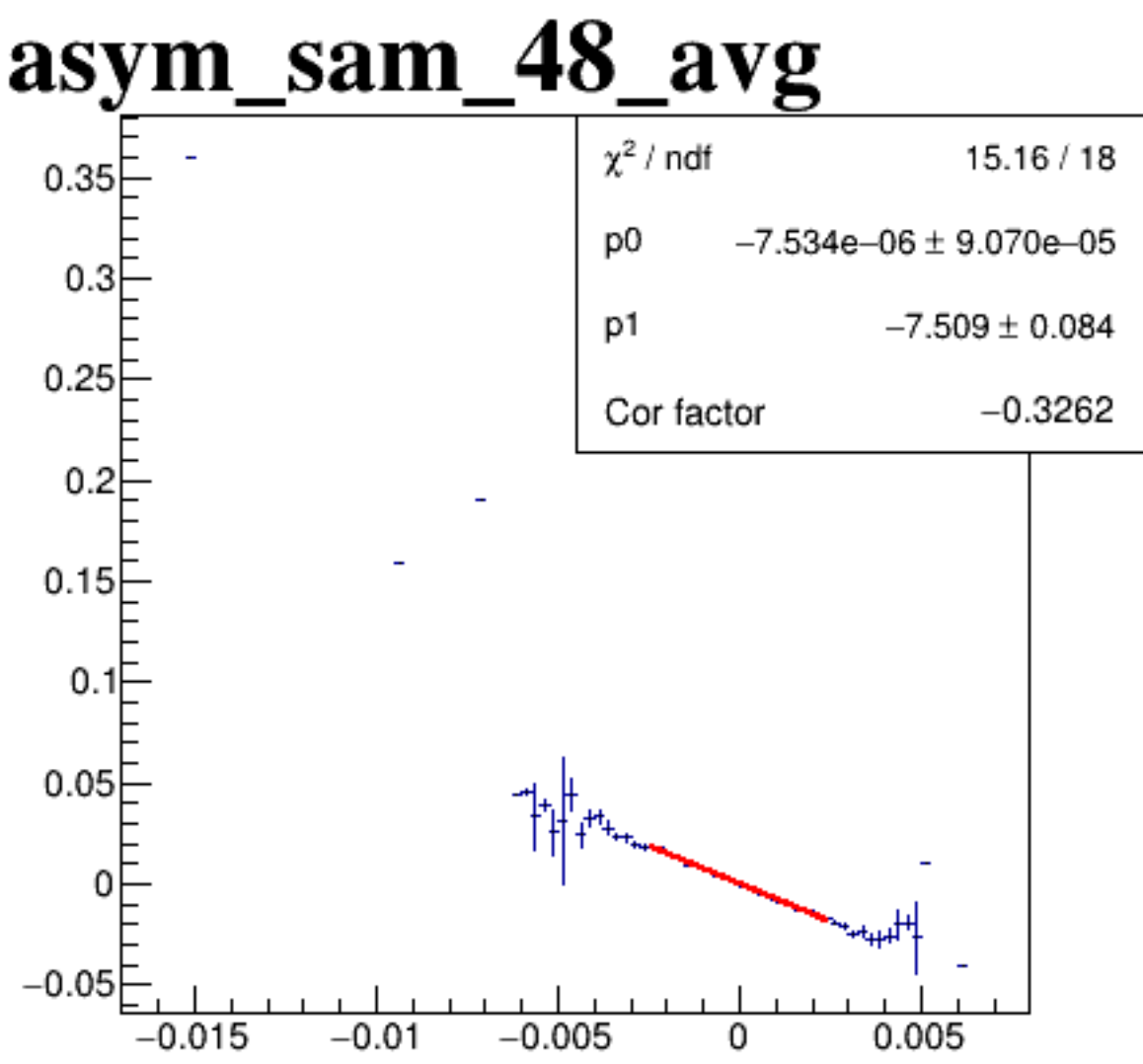
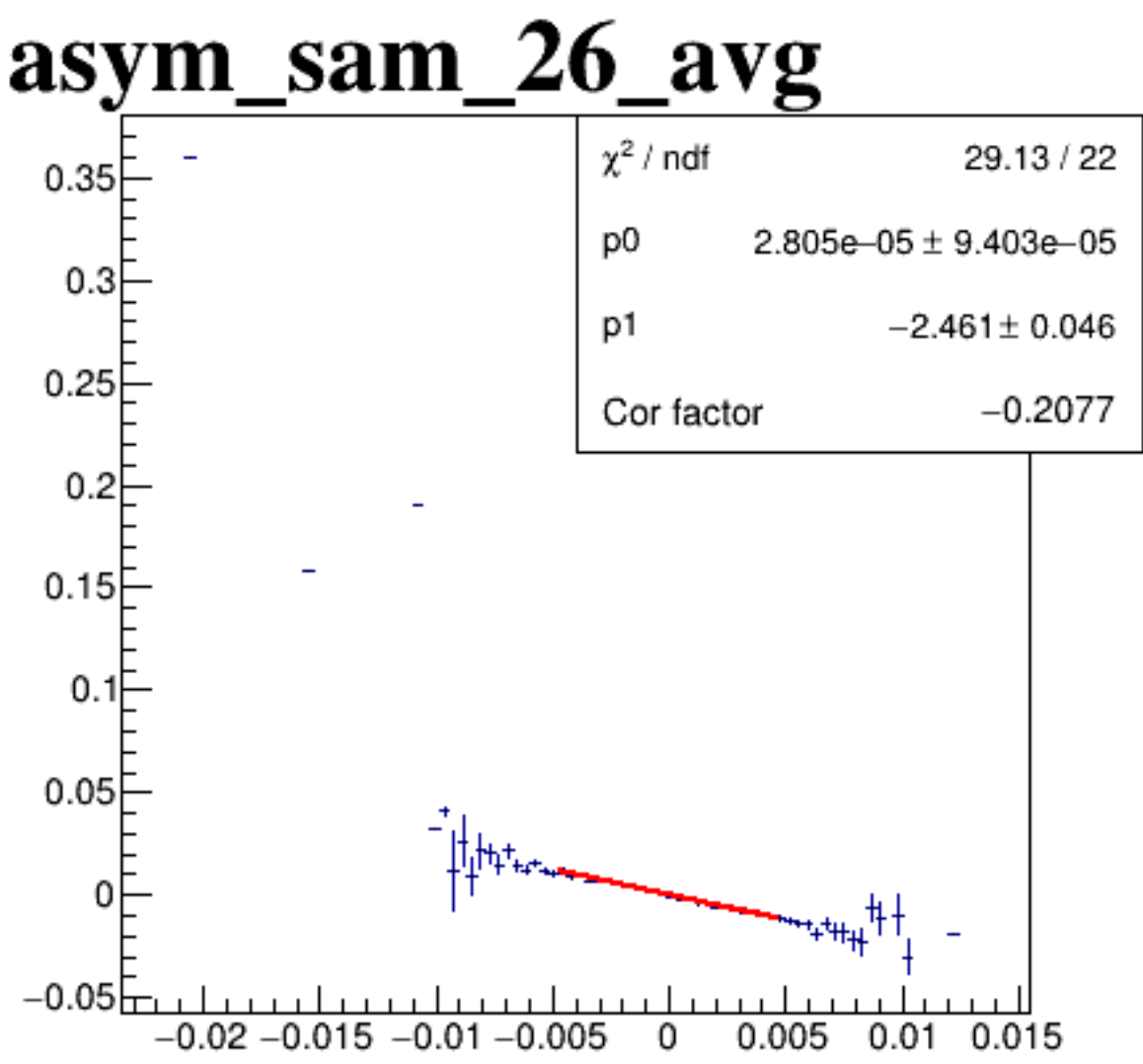
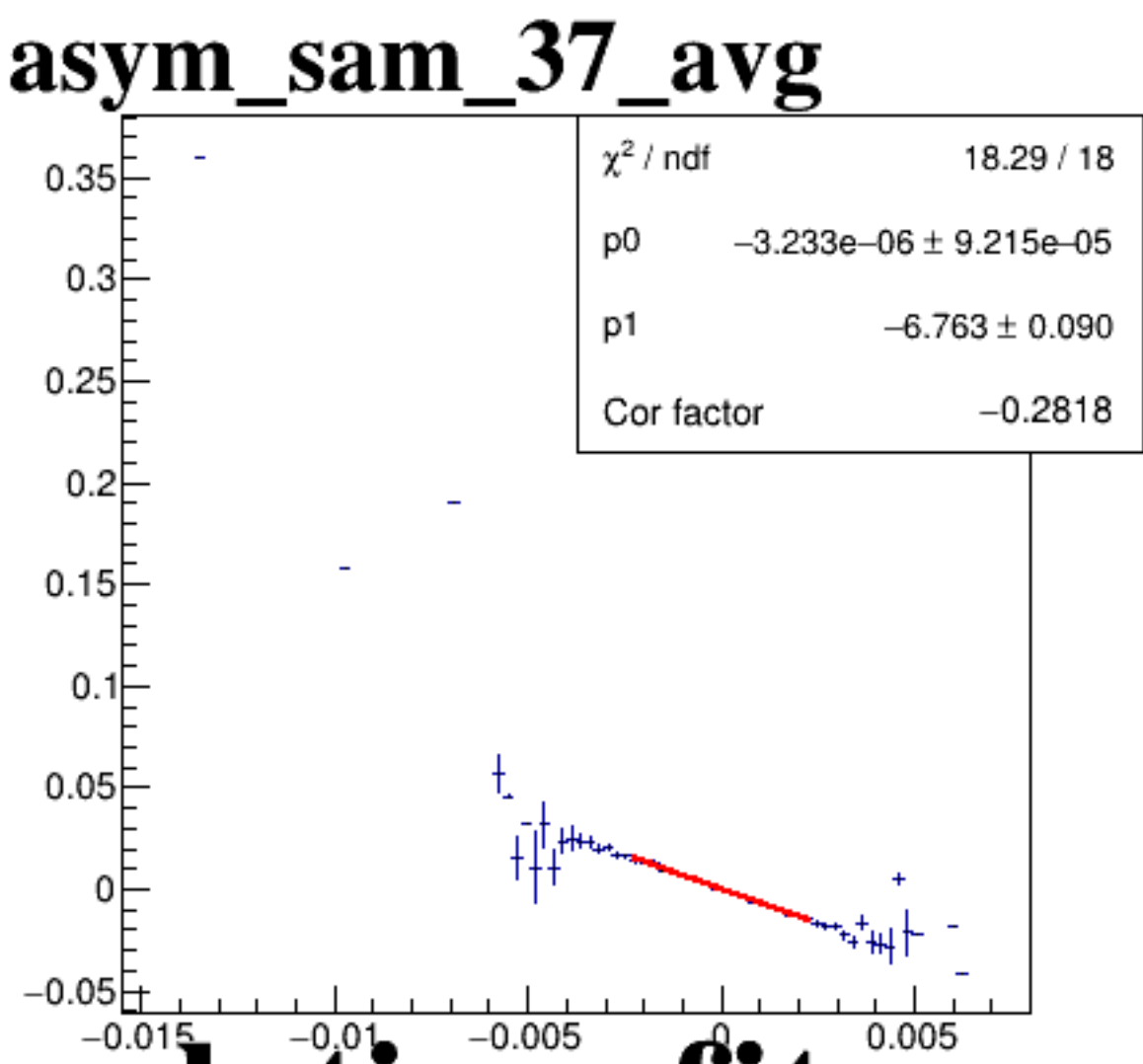
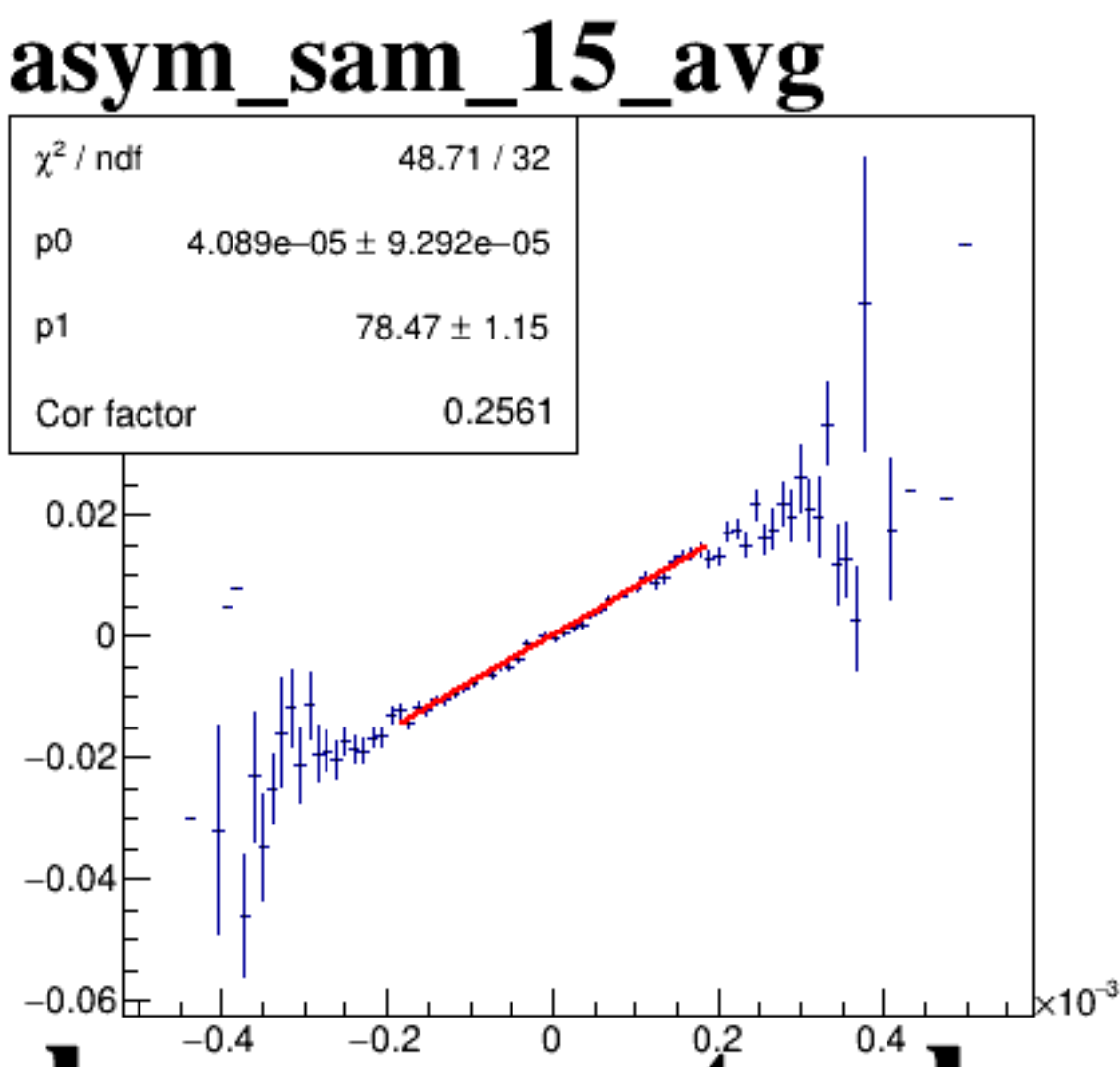
diff_bpm4eX



diff_bpm4eY



diff_bpm12X



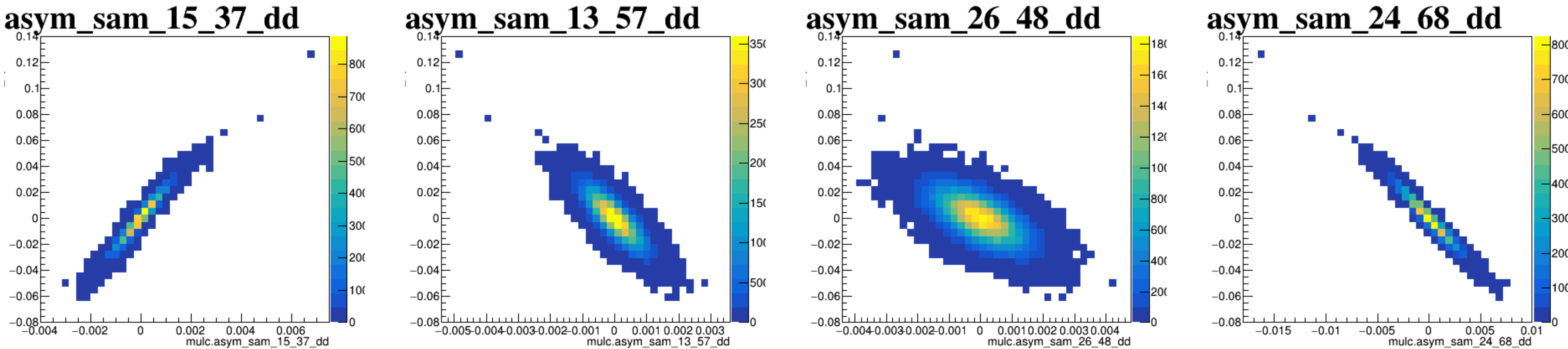
A scatter plot showing the relationship between `mulc.asym_sam_48_avg` (x-axis) and `asym_sam_48_avg` (y-axis). The x-axis ranges from -0.015 to 0.005, and the y-axis ranges from -0.03 to 0.04. The data points form a dense, elongated elliptical cloud centered around (0, 0), indicating a strong positive correlation.

A scatter plot showing the relationship between **asym_sam_48_avg** (y-axis) and **mulc.asym_sam_48_avg** (x-axis). The y-axis ranges from -0.05 to 0.15, and the x-axis ranges from -0.015 to 0.005. The data points form a dense, elongated cluster with a negative correlation, sloping downwards from left to right.

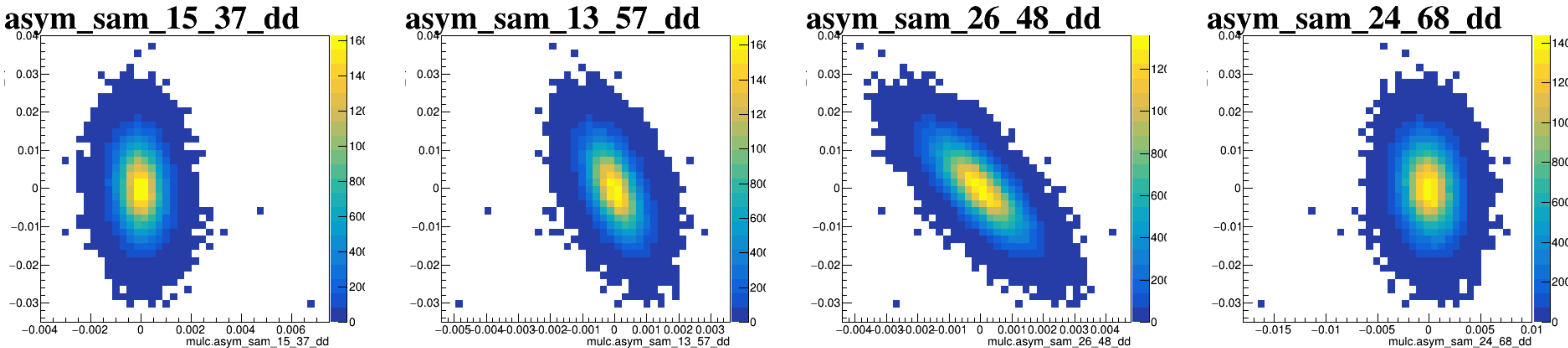
A scatter plot showing the relationship between `mulc.asym_sam_48_avg` (x-axis) and `asym_sam_48_avg` (y-axis). The x-axis ranges from -0.015 to 0.005, and the y-axis ranges from -0.03 to 0.03. The data points form a dense, elongated elliptical cloud centered around (0, 0), indicating a strong positive correlation.

run5454_000_diff_bpm_mutual_correlation_scat_sam_avgs.png

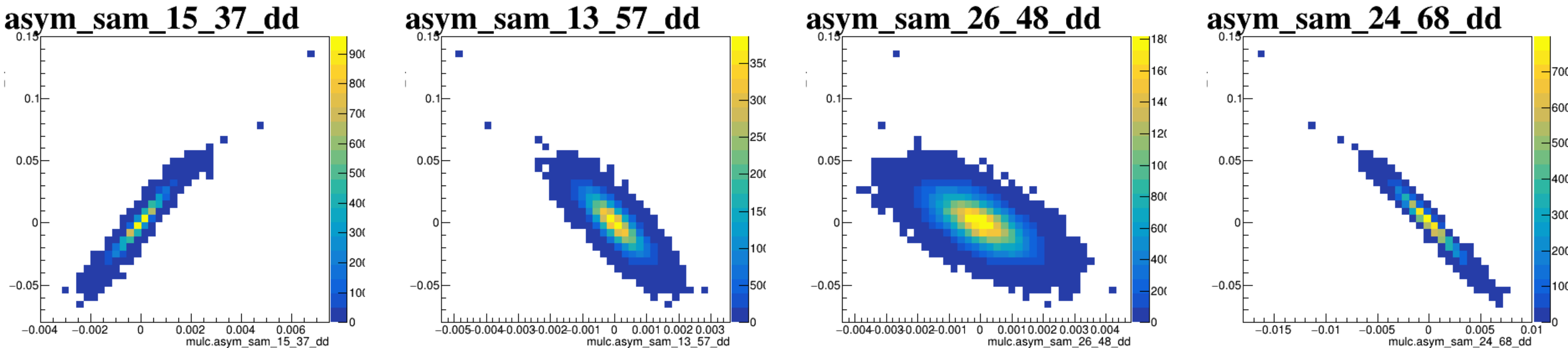
diff_bpm4aX



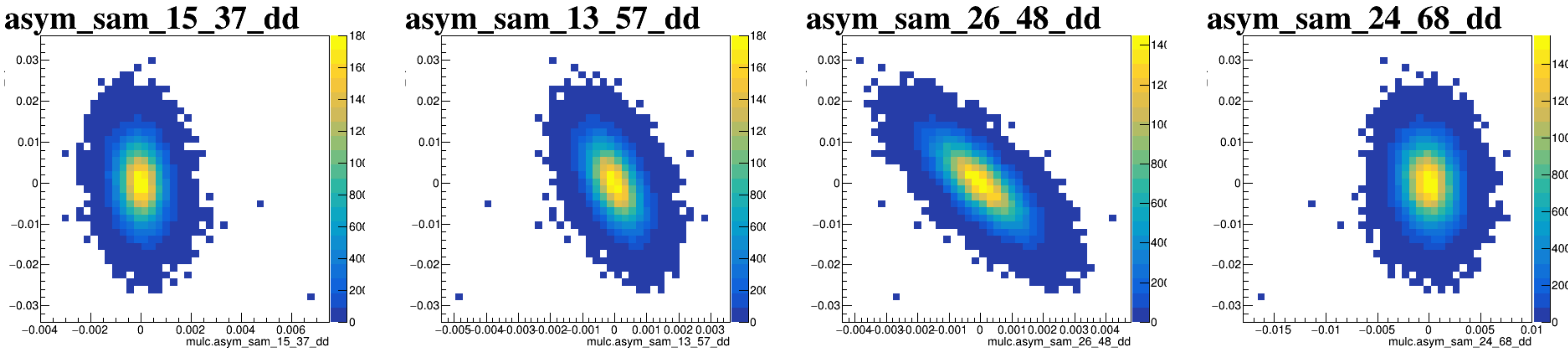
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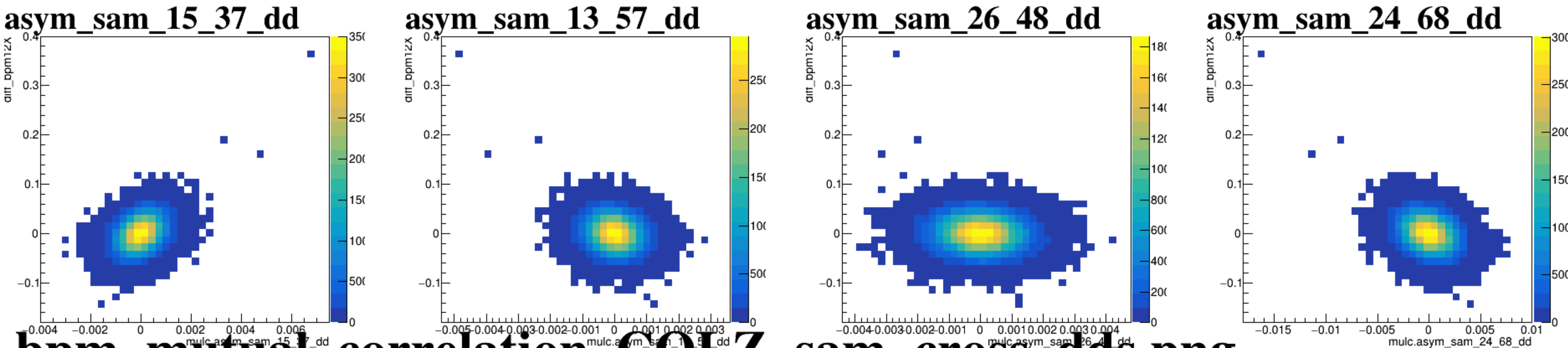
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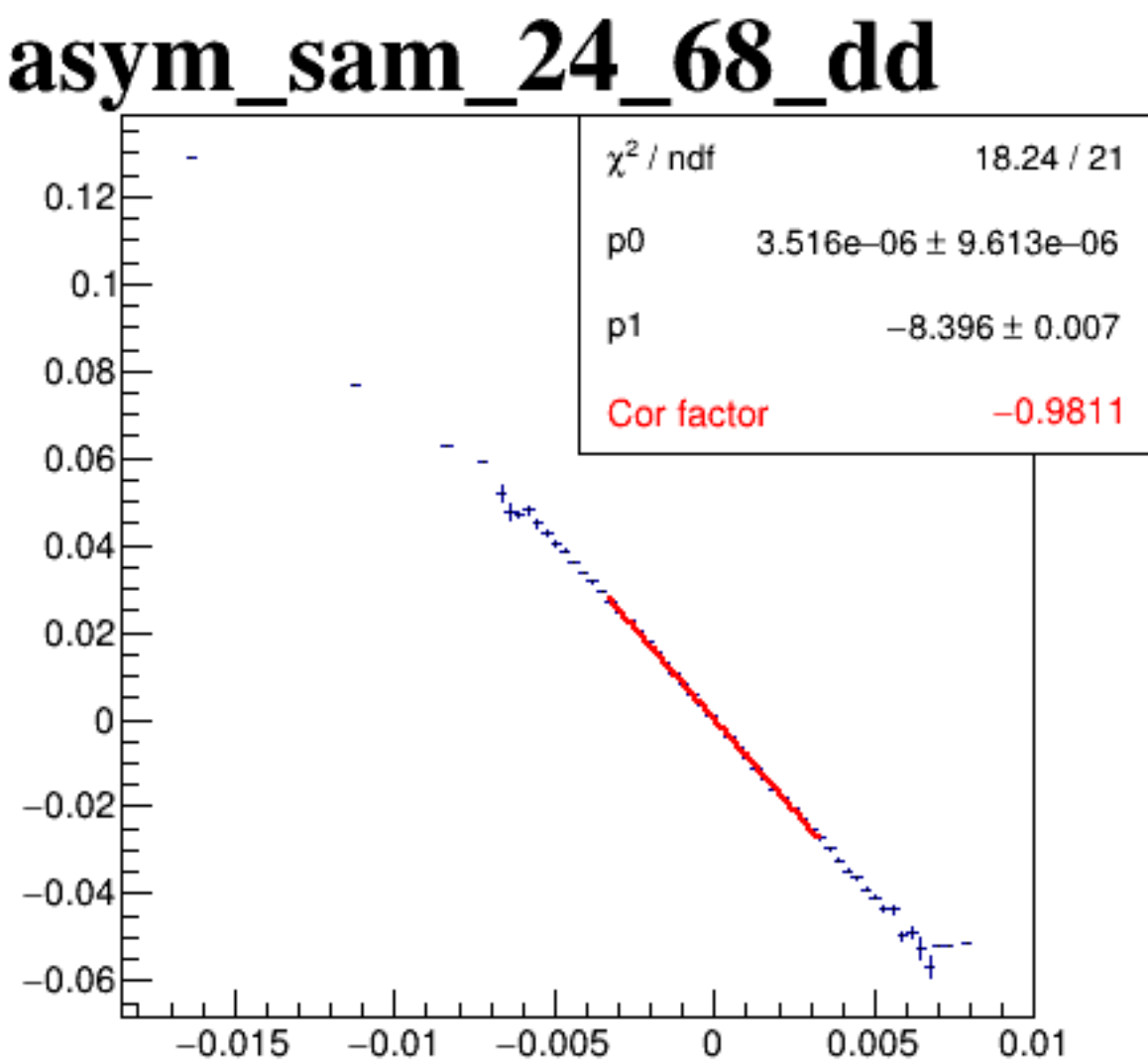
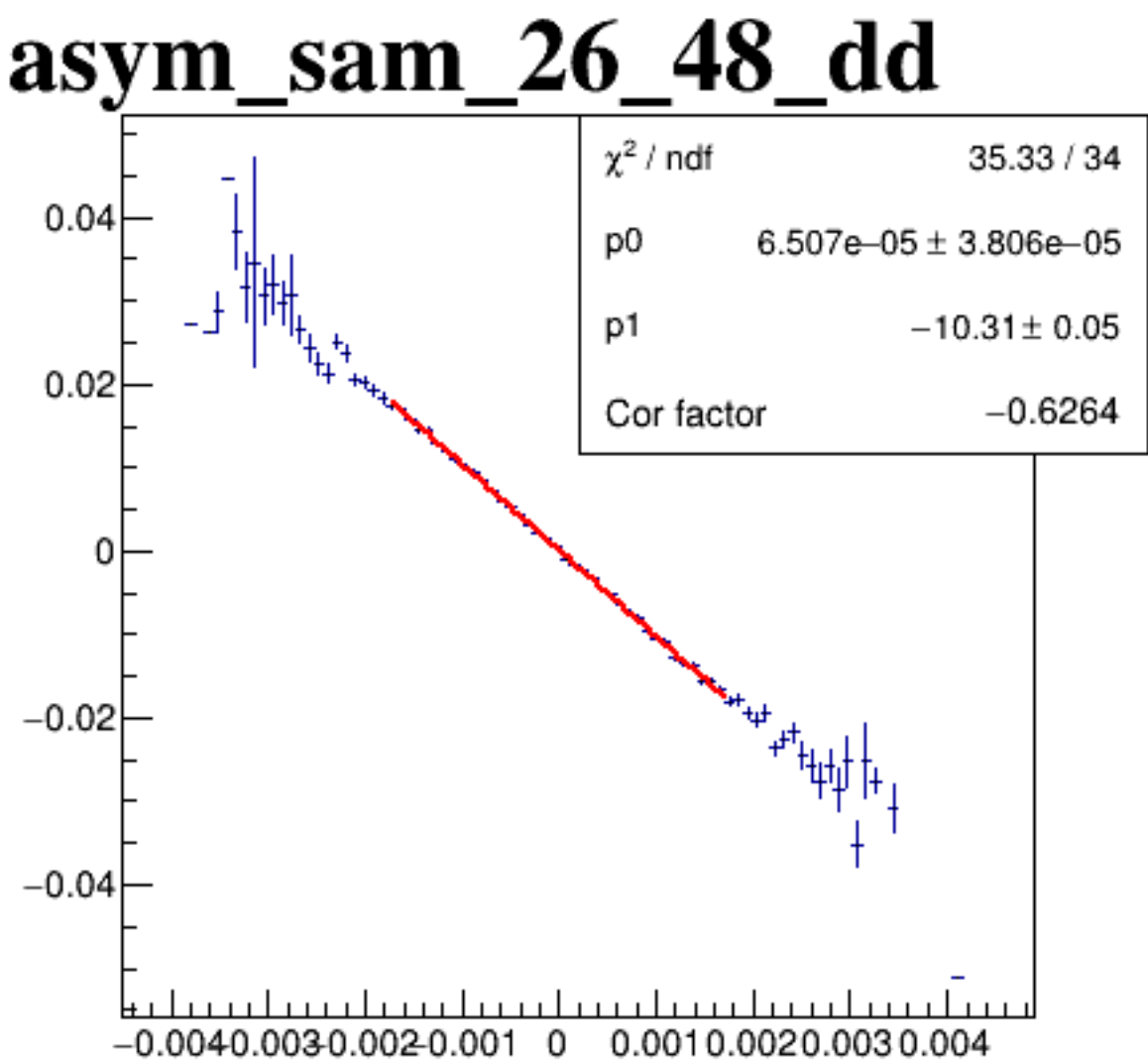
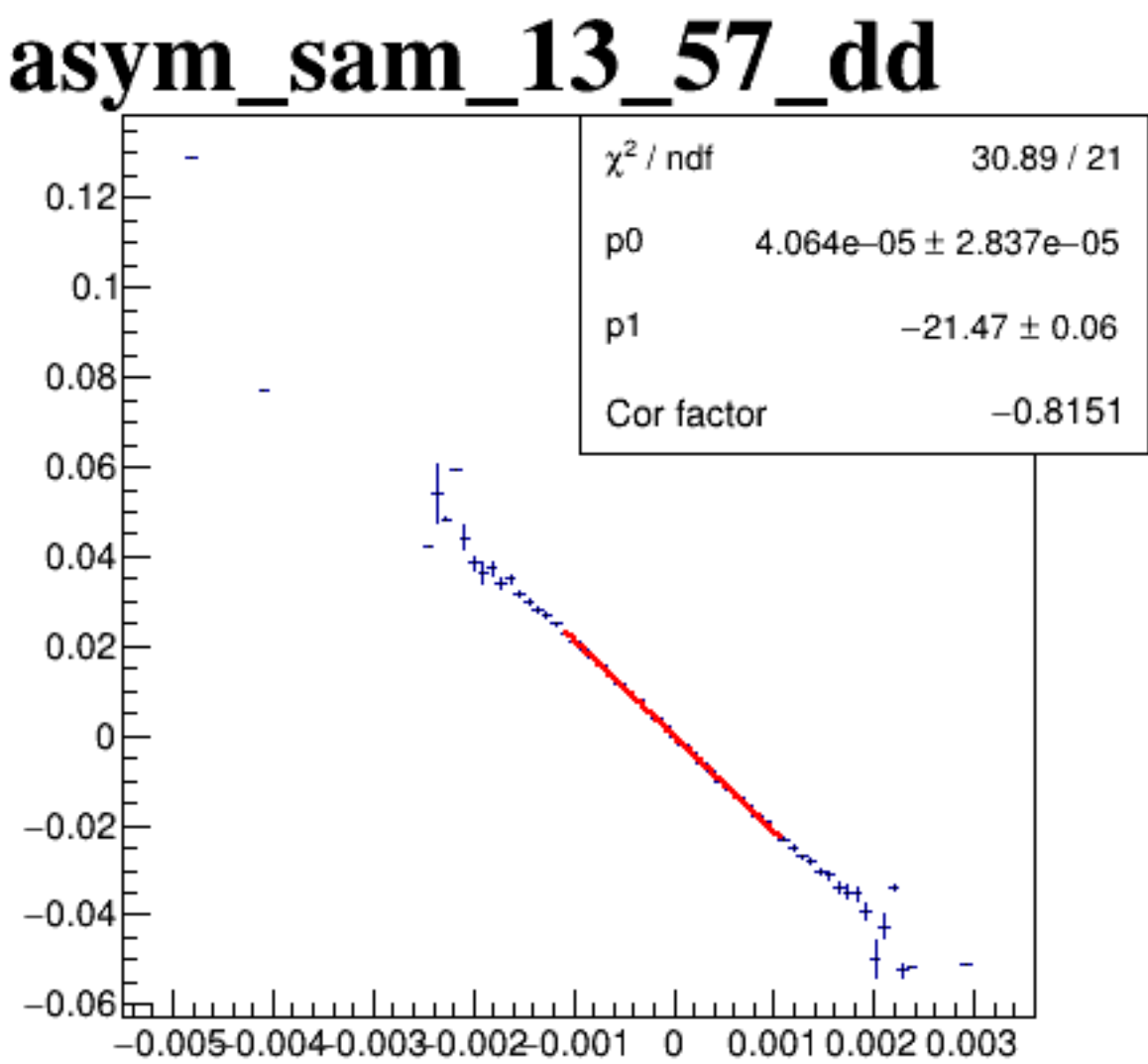
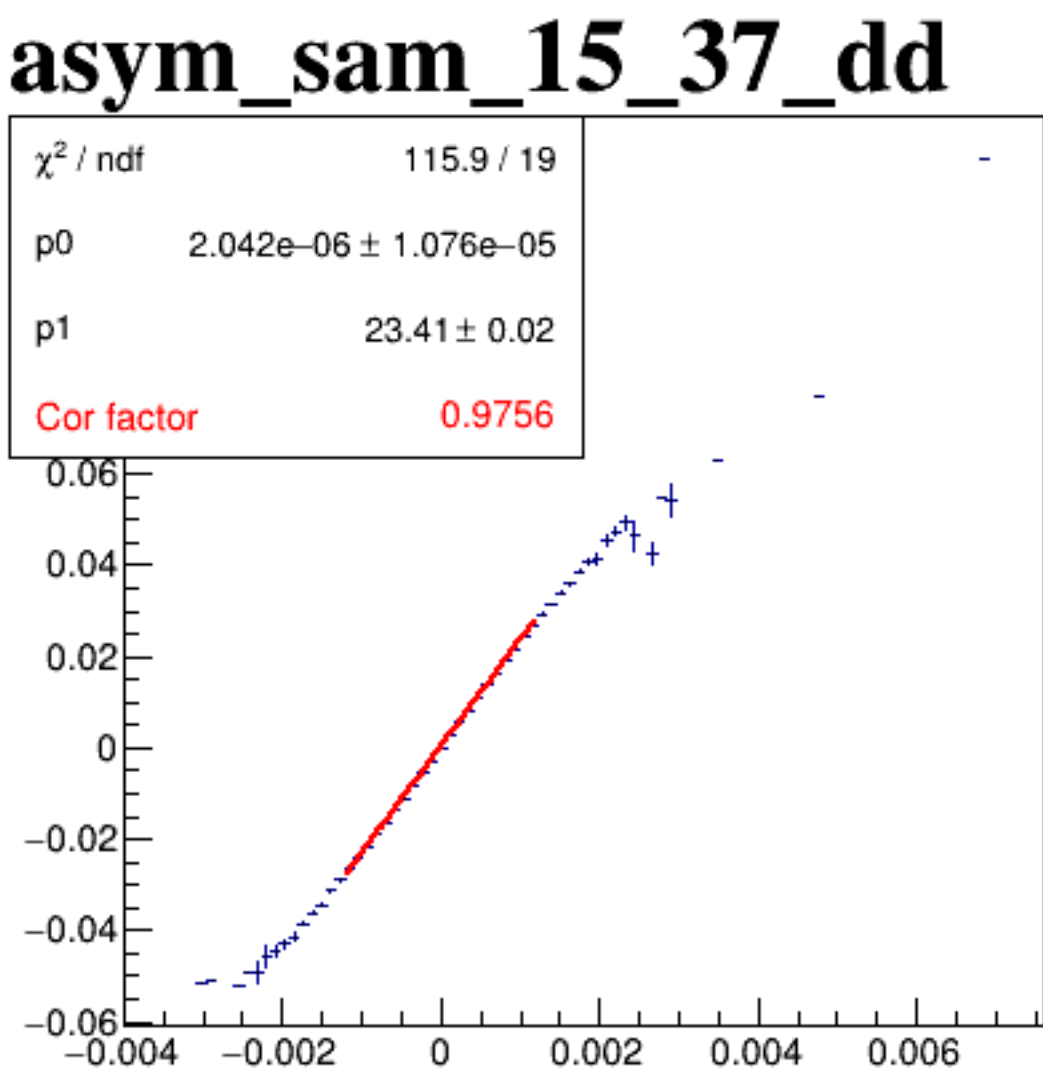
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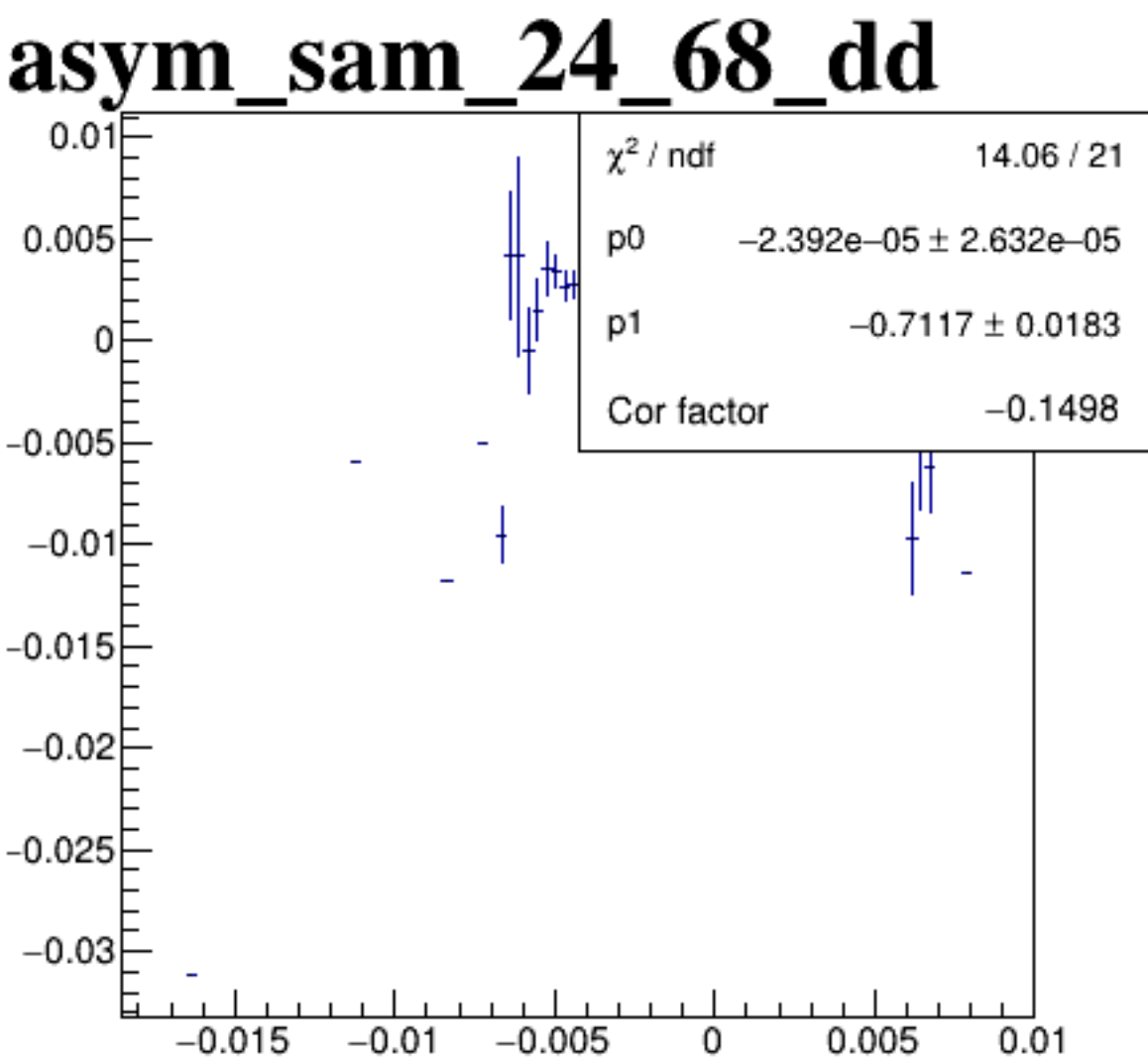
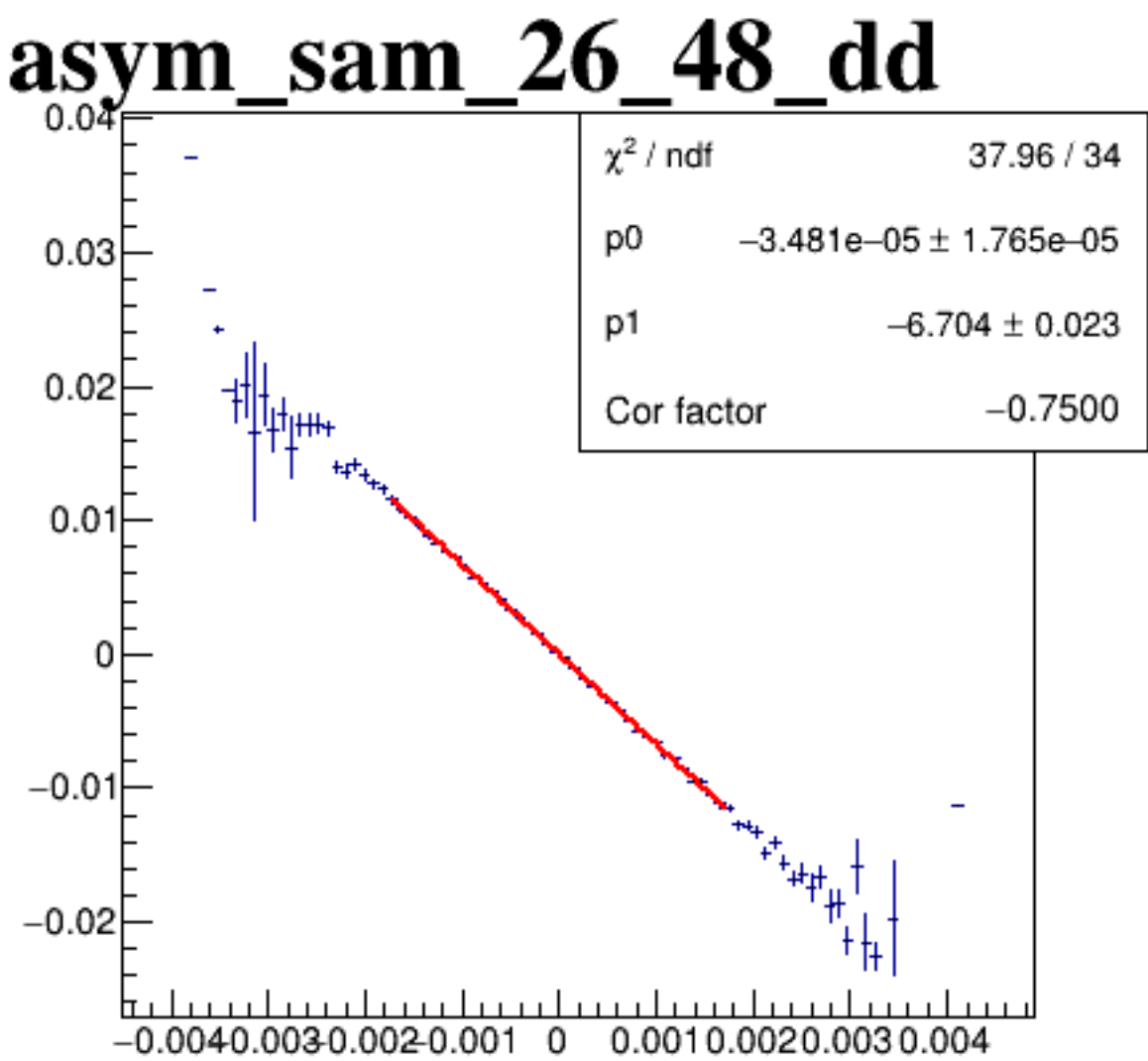
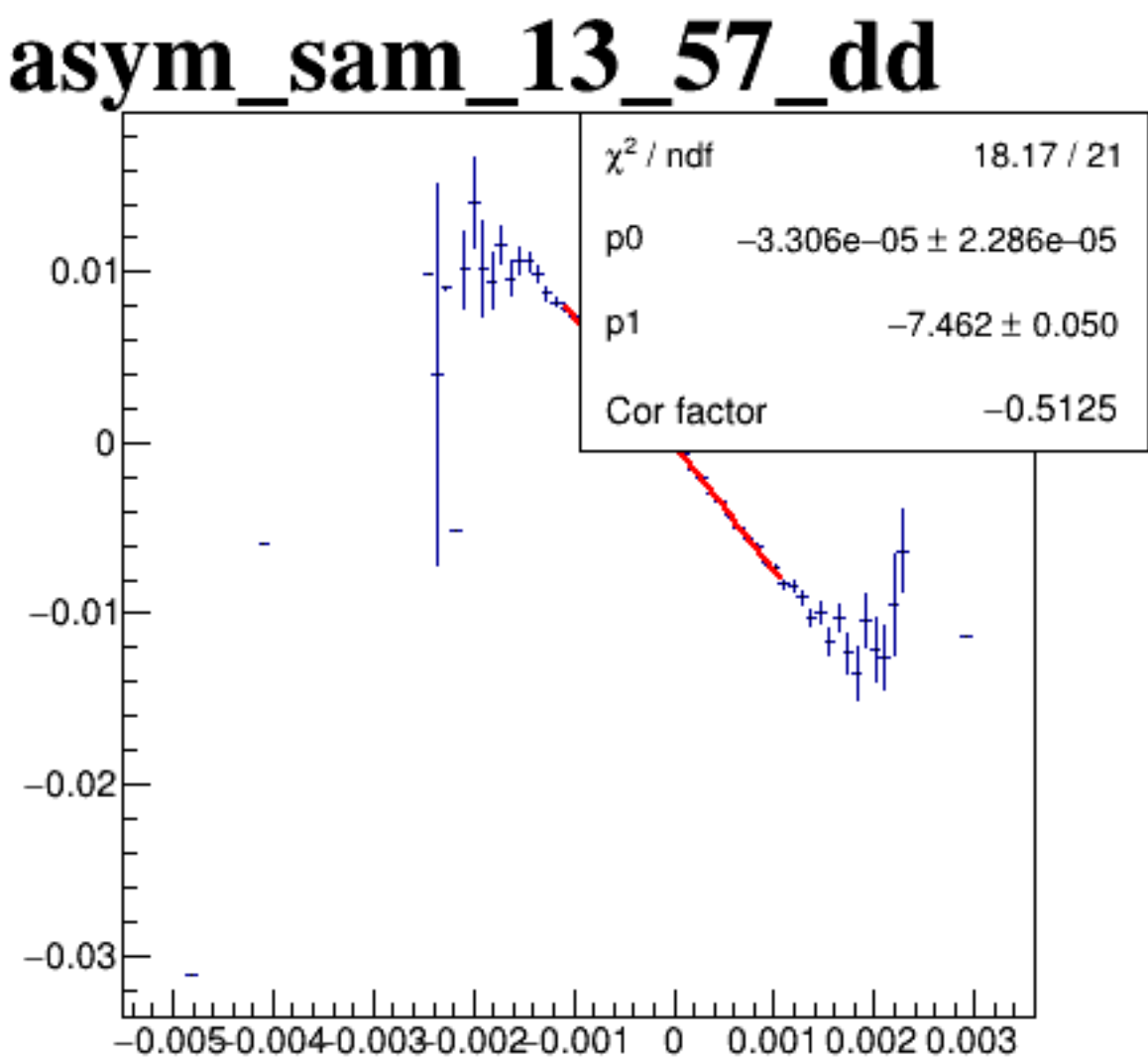
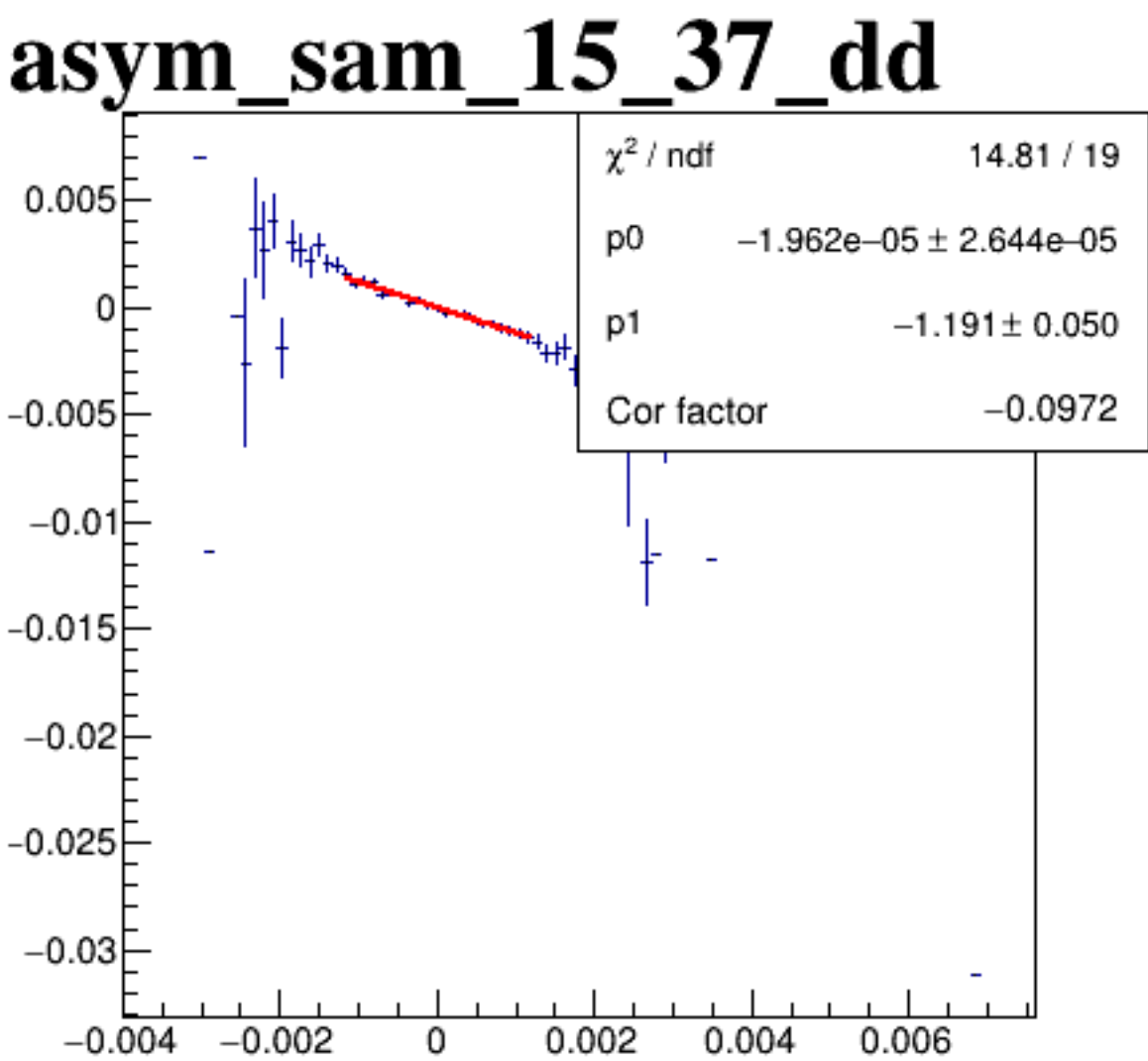
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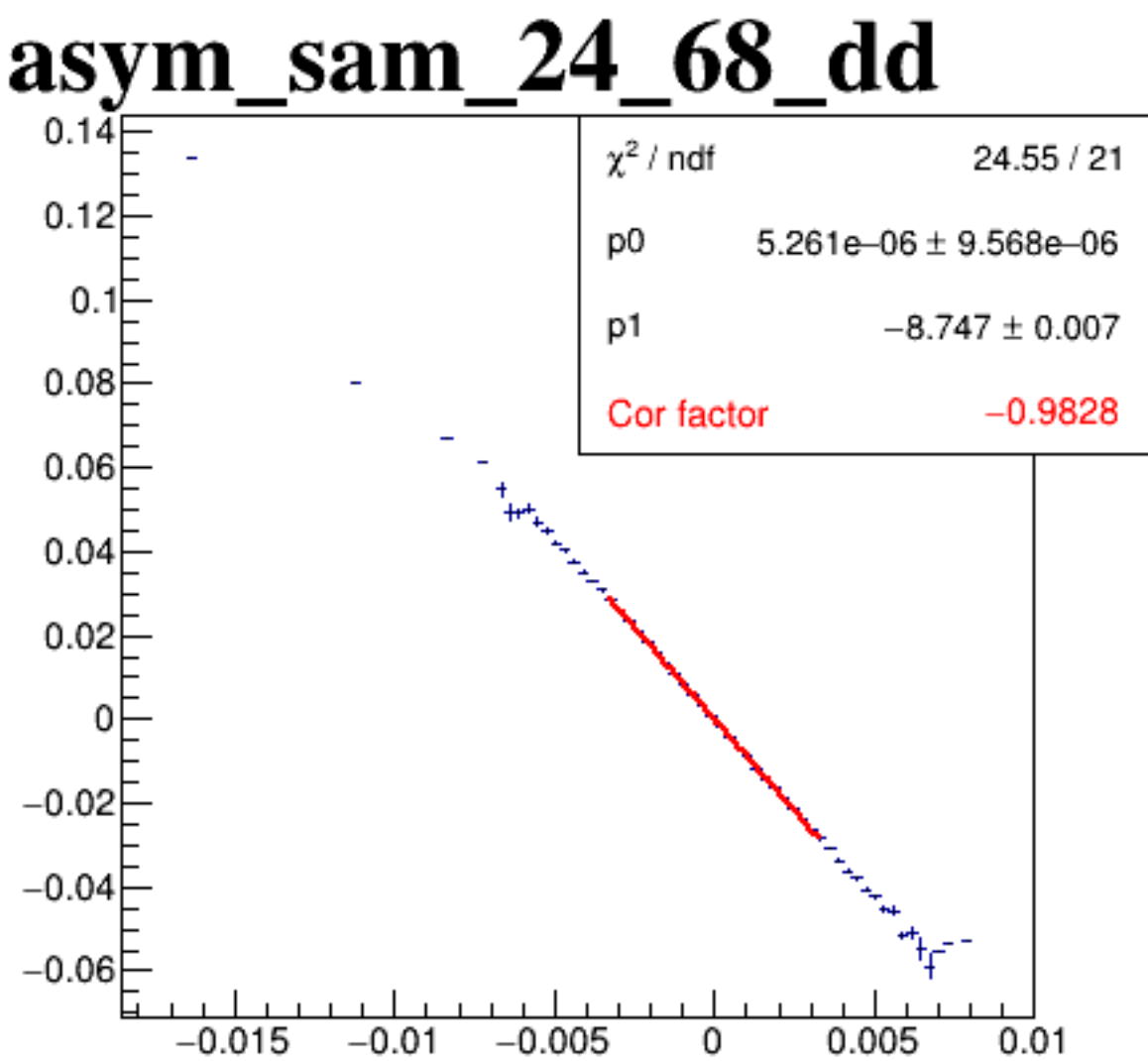
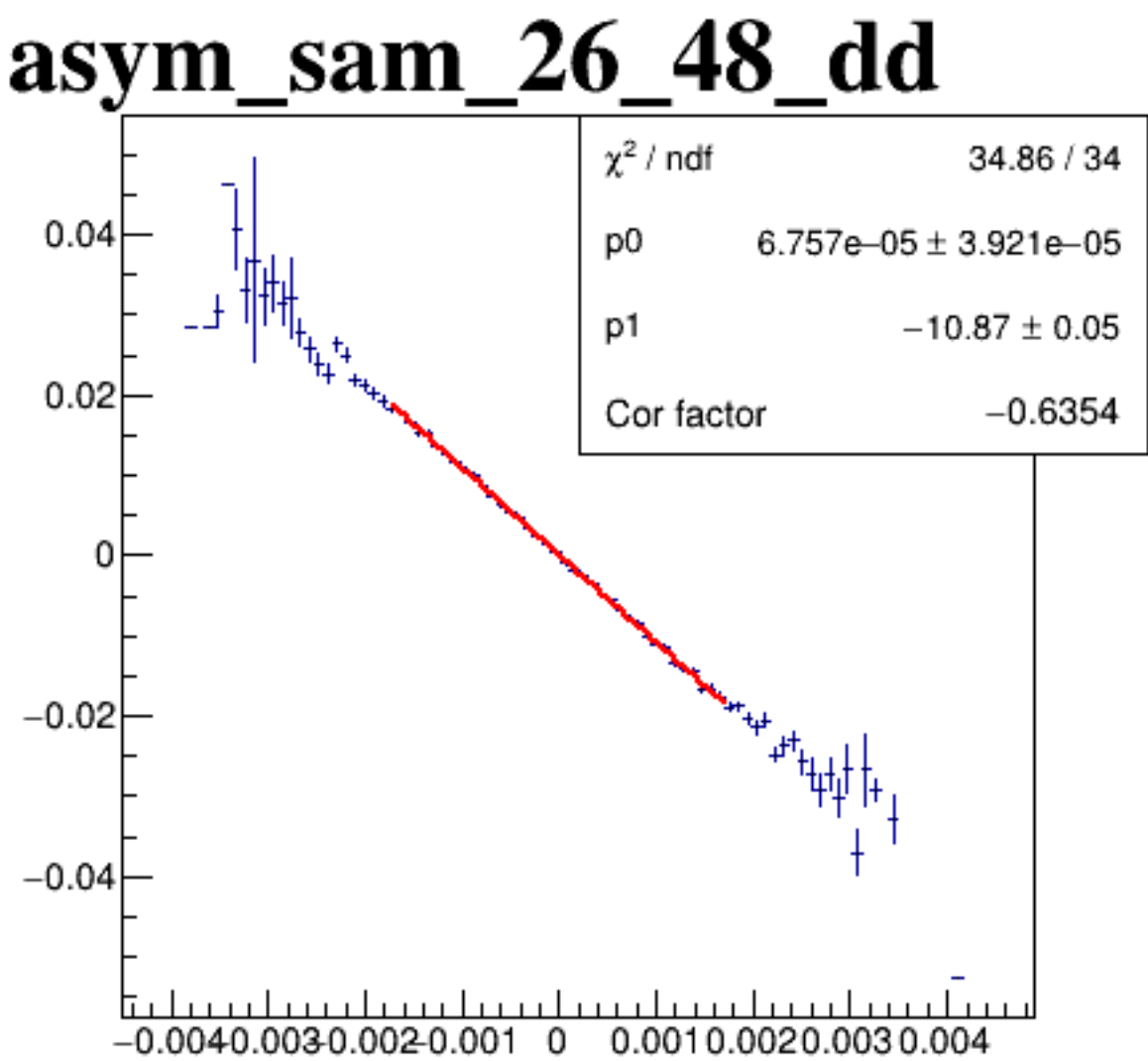
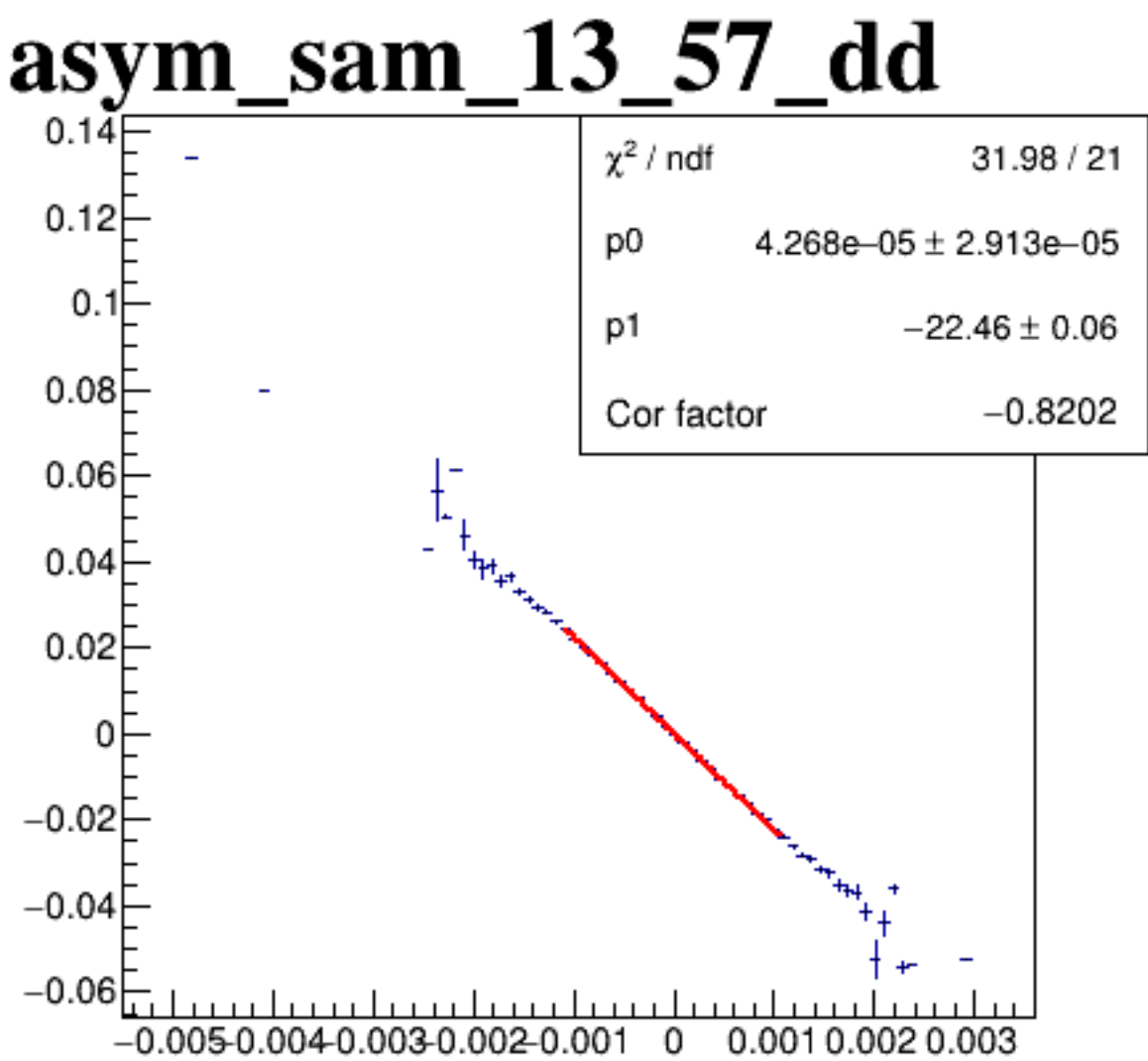
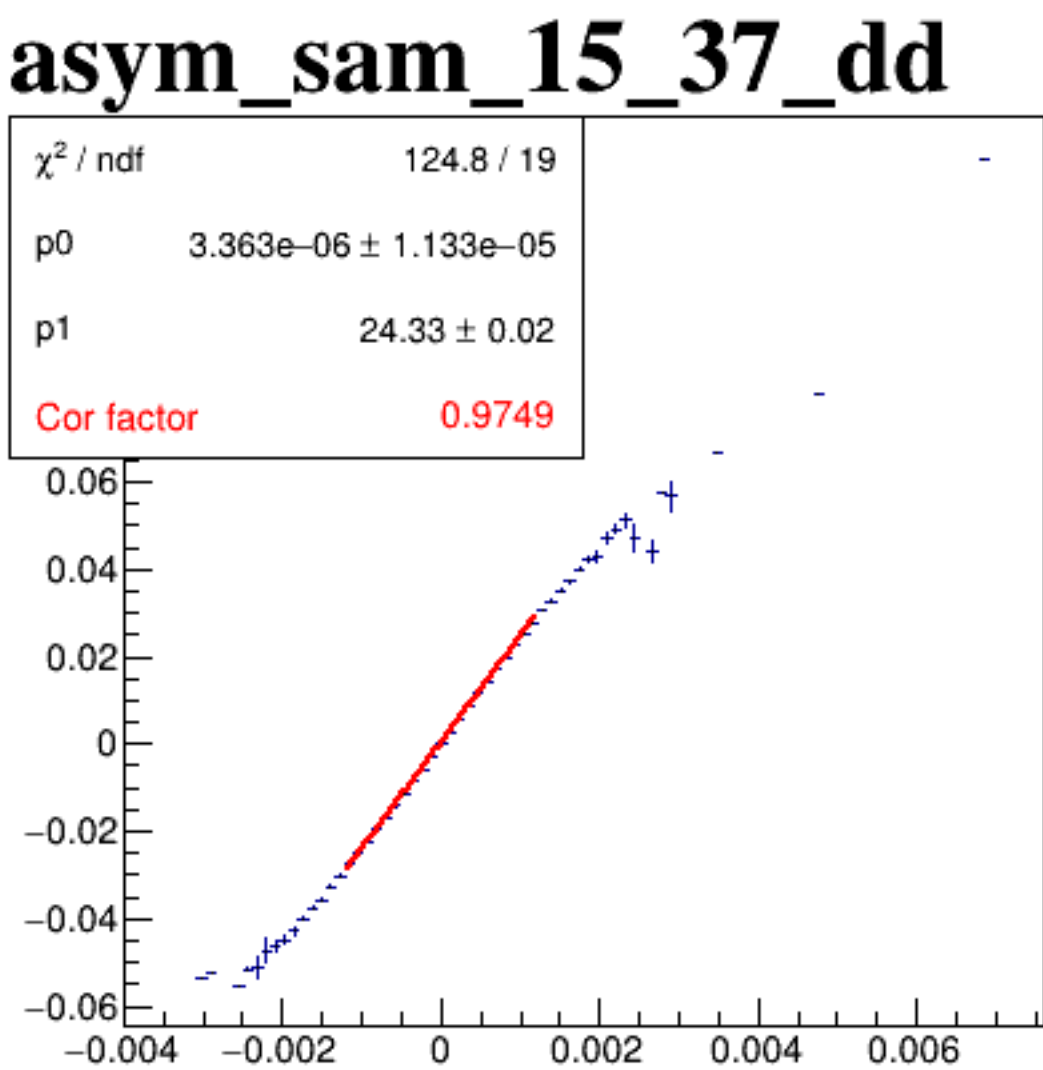
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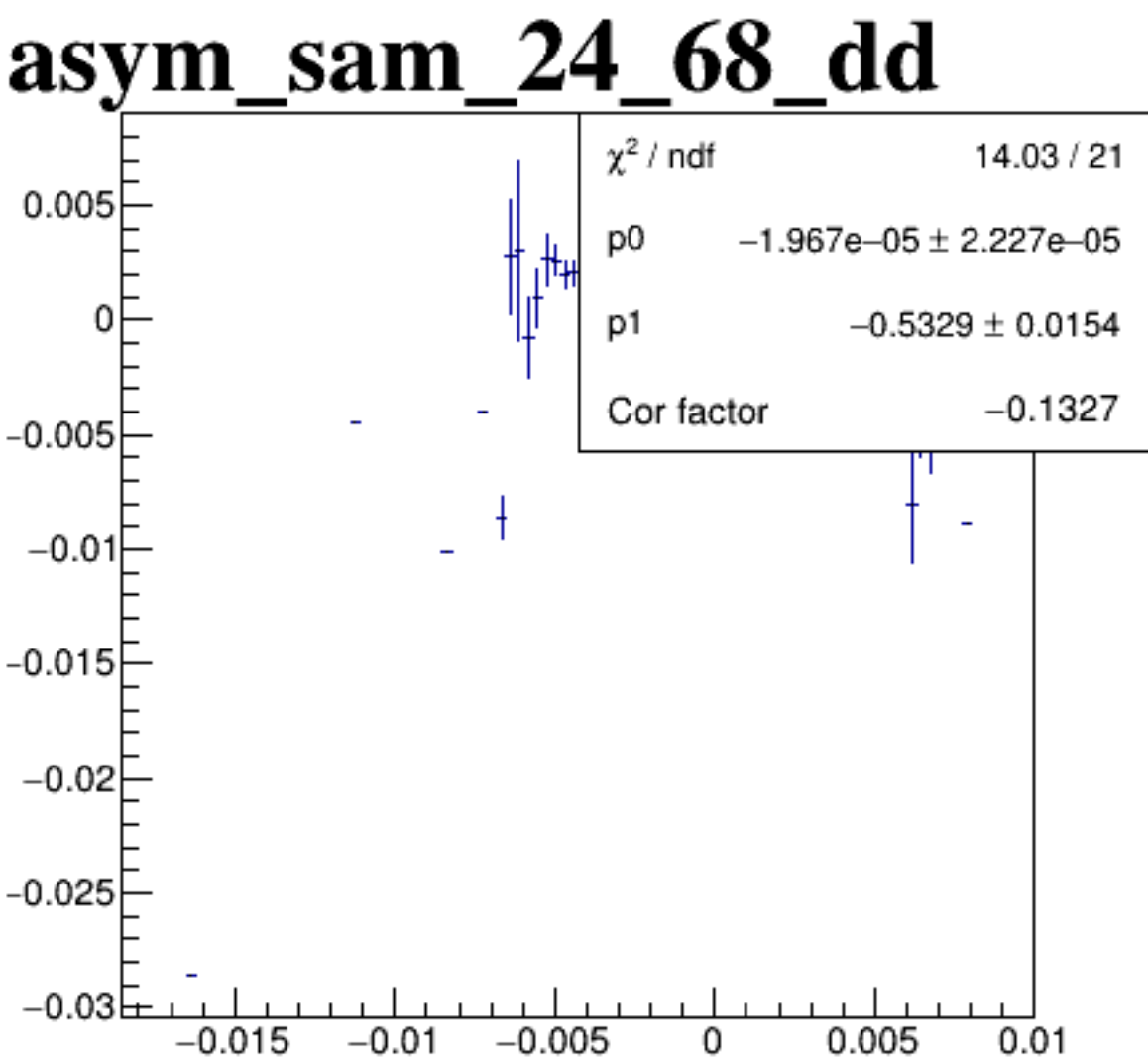
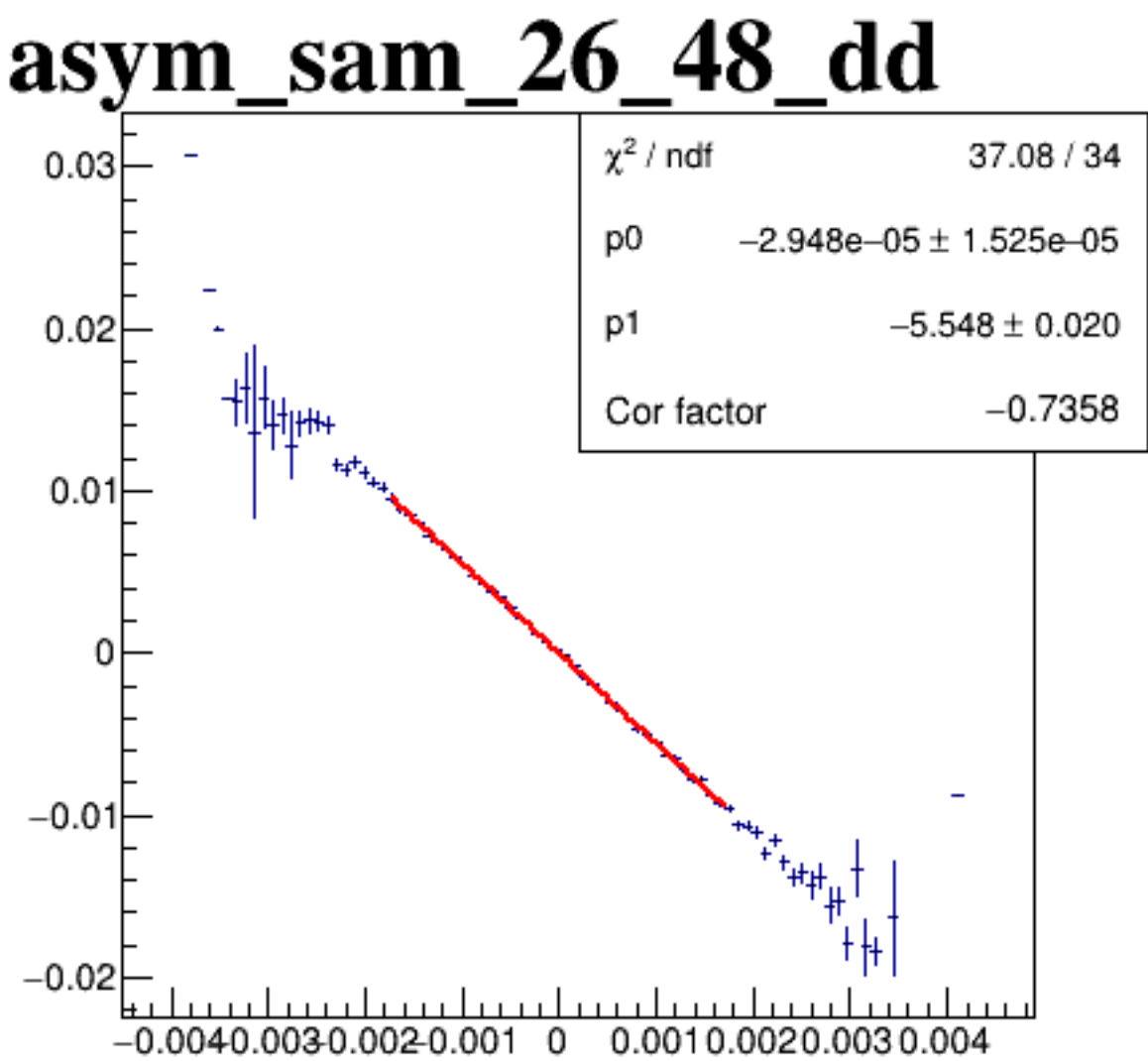
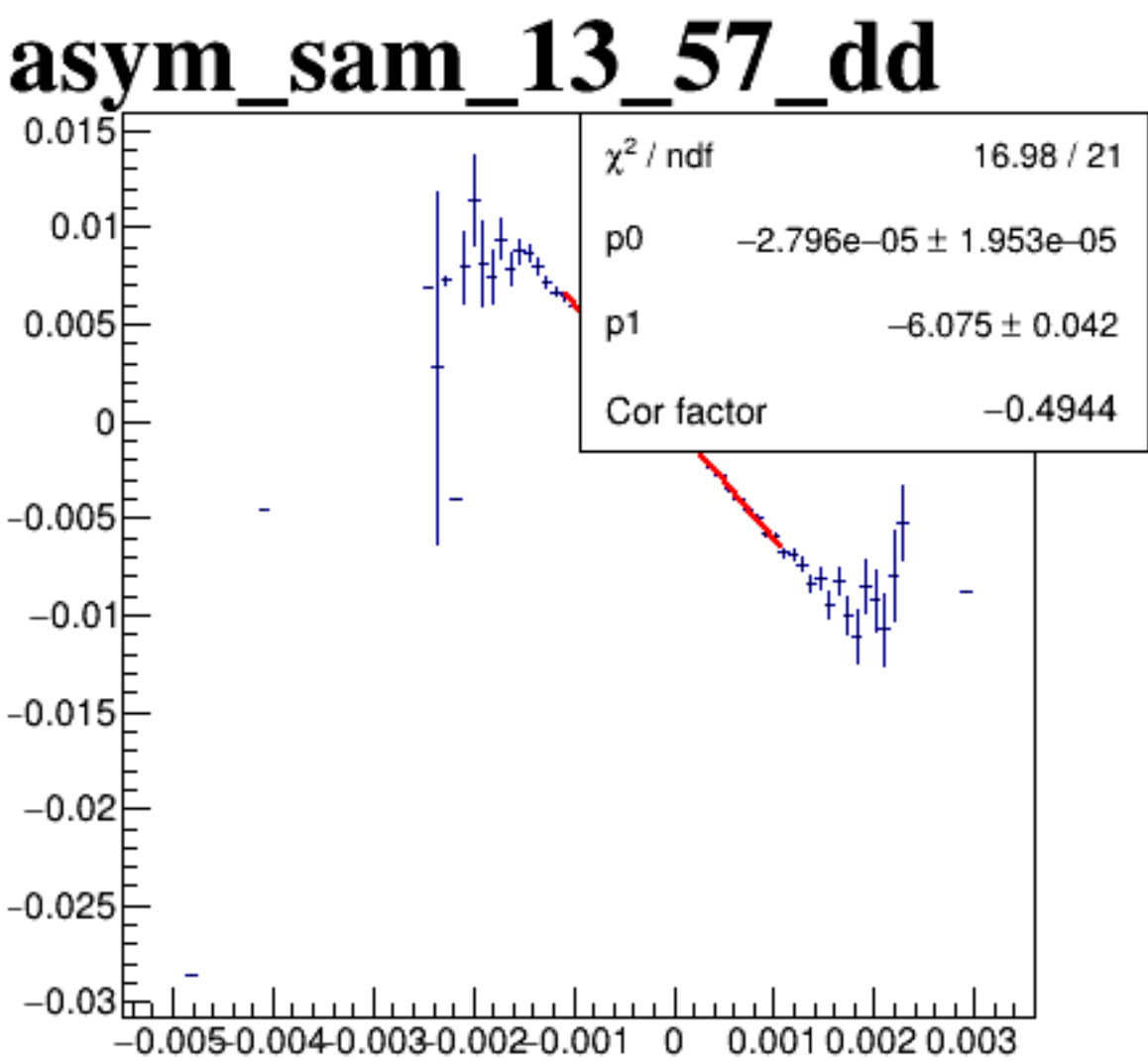
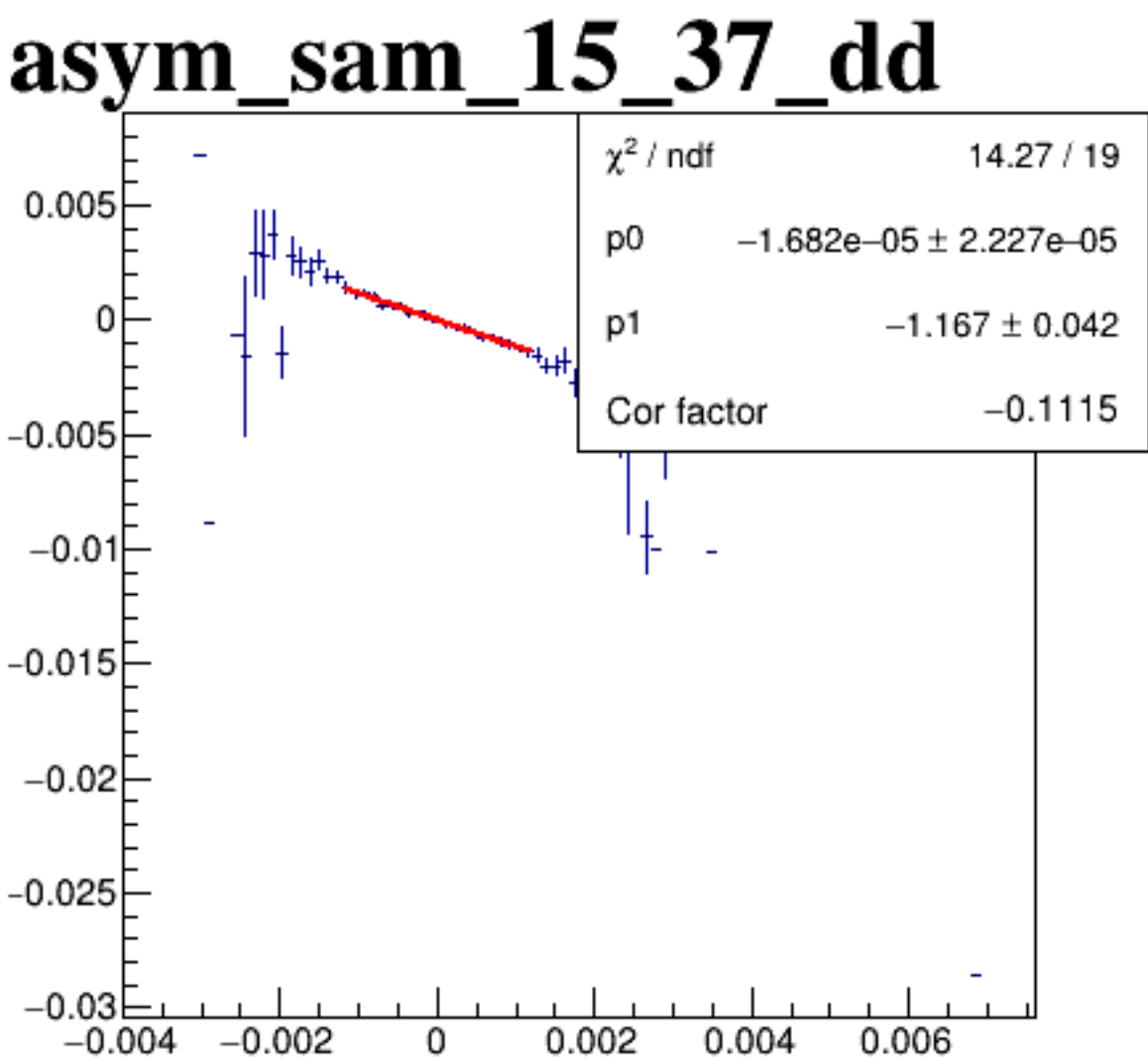
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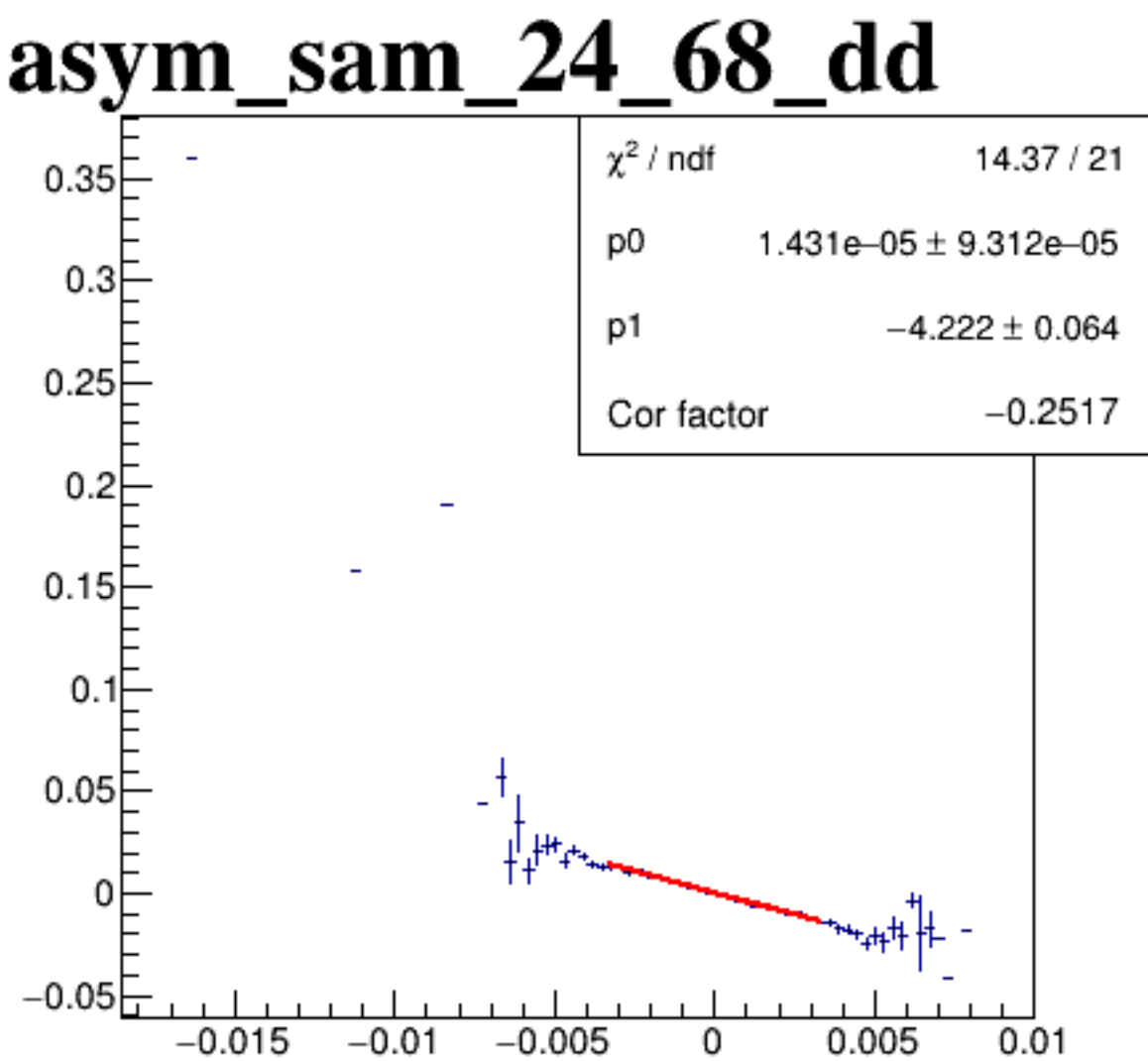
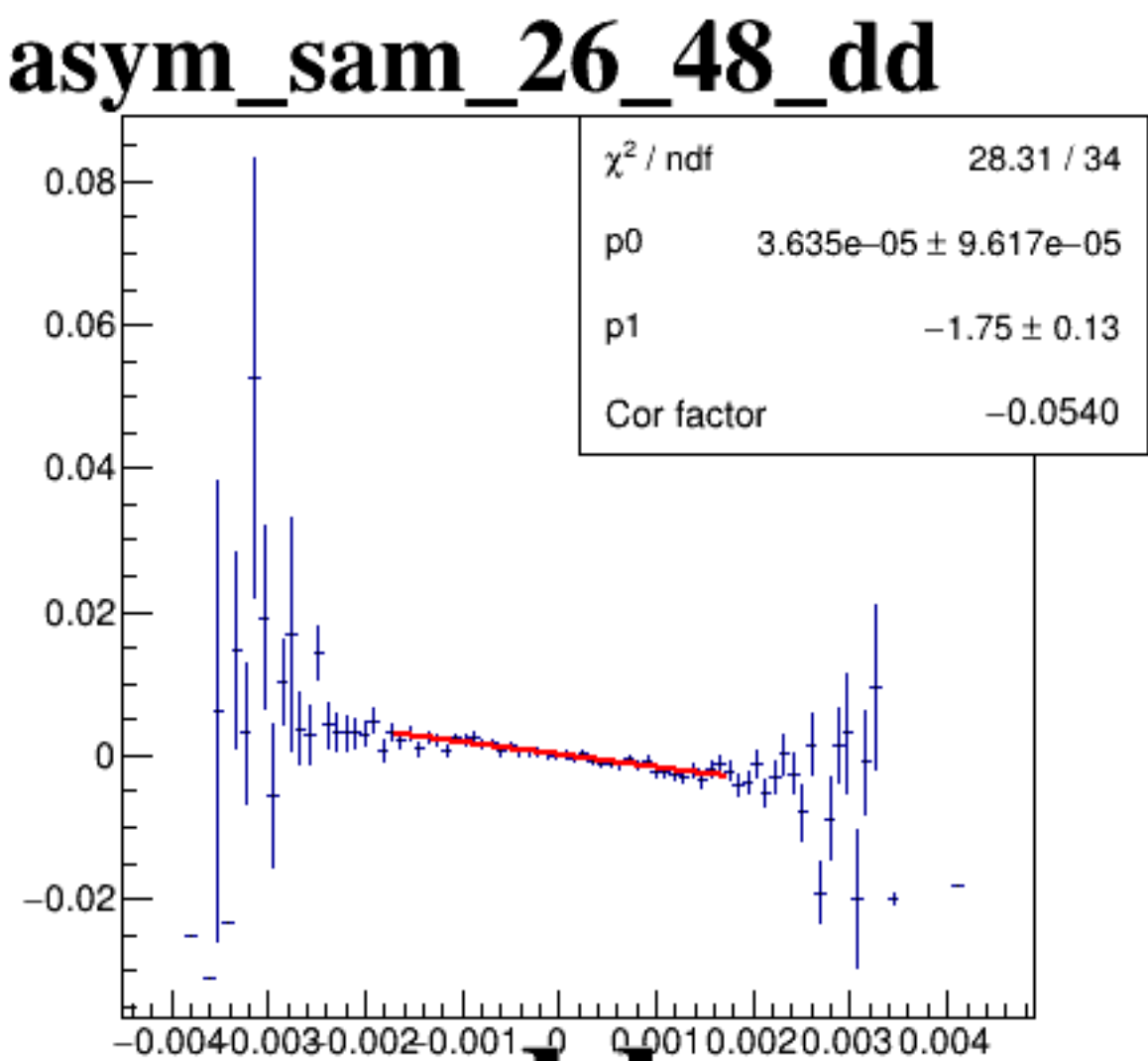
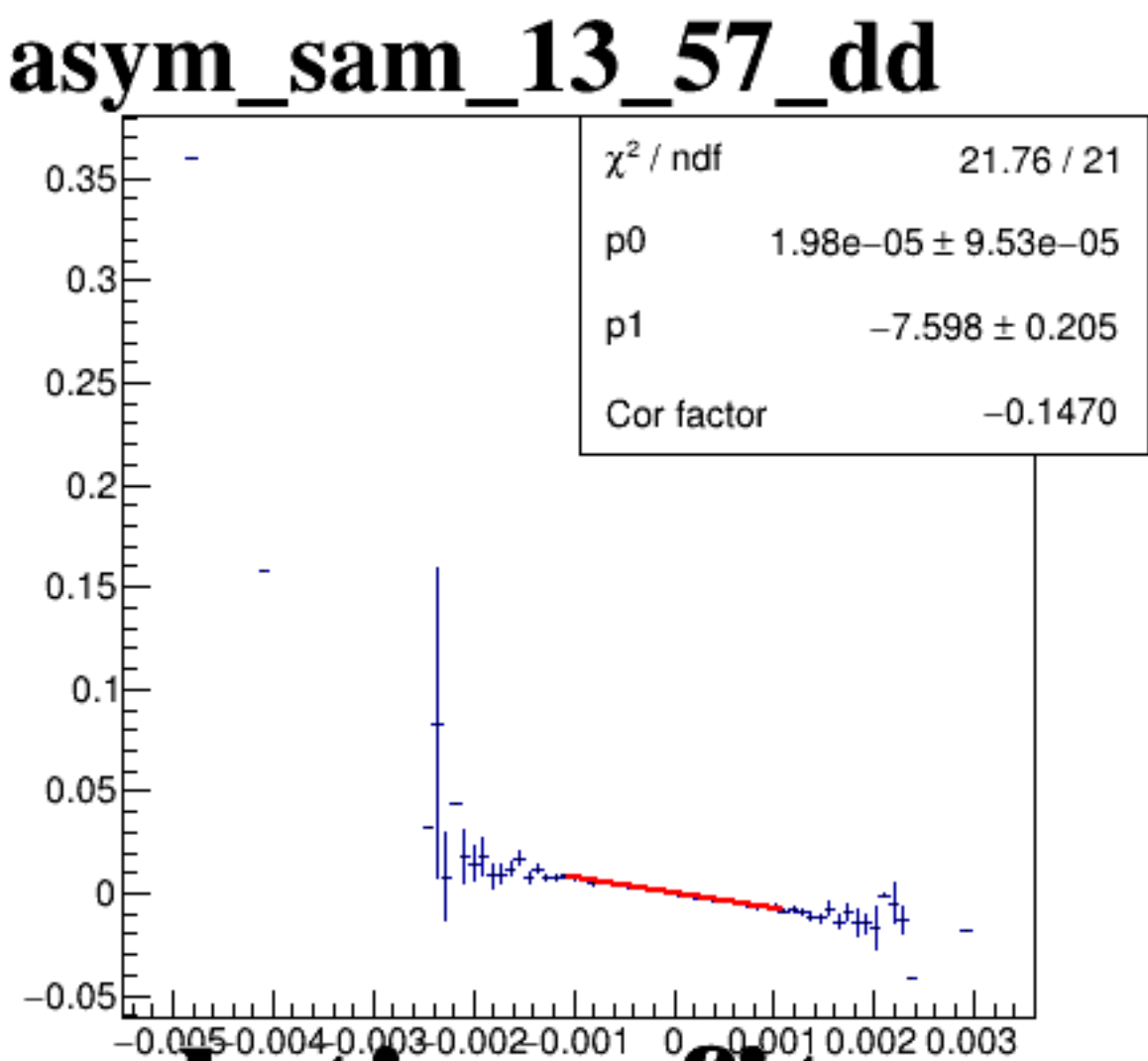
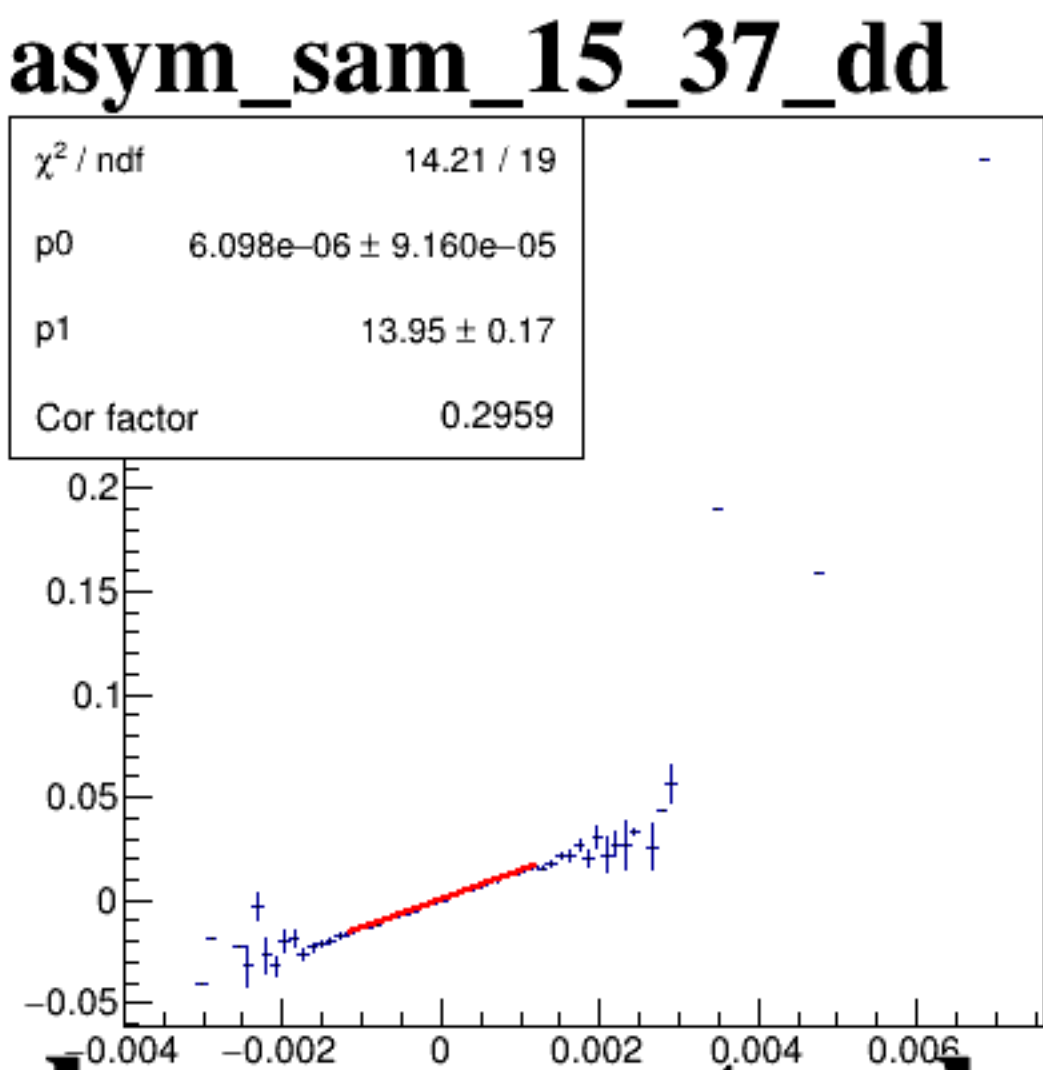
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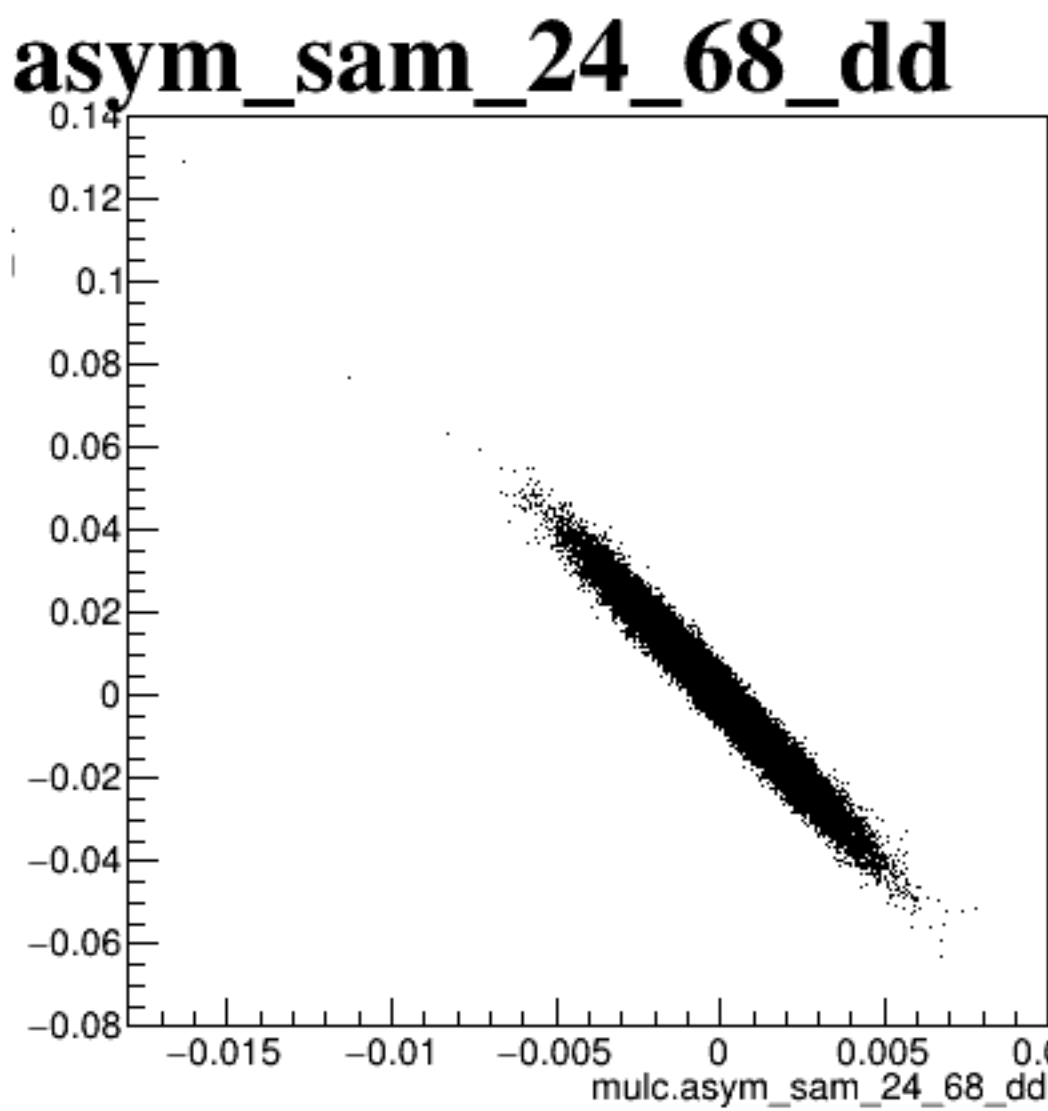
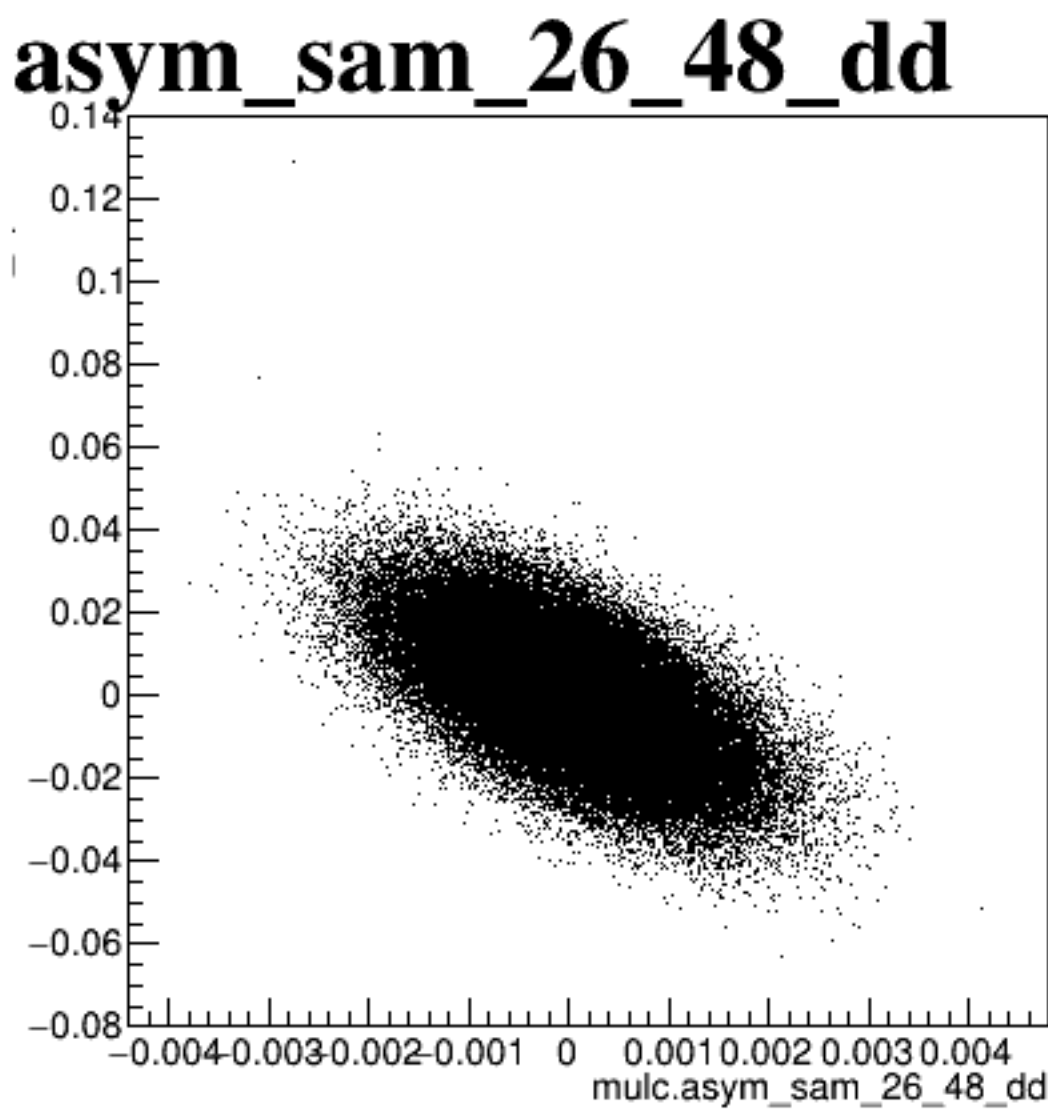
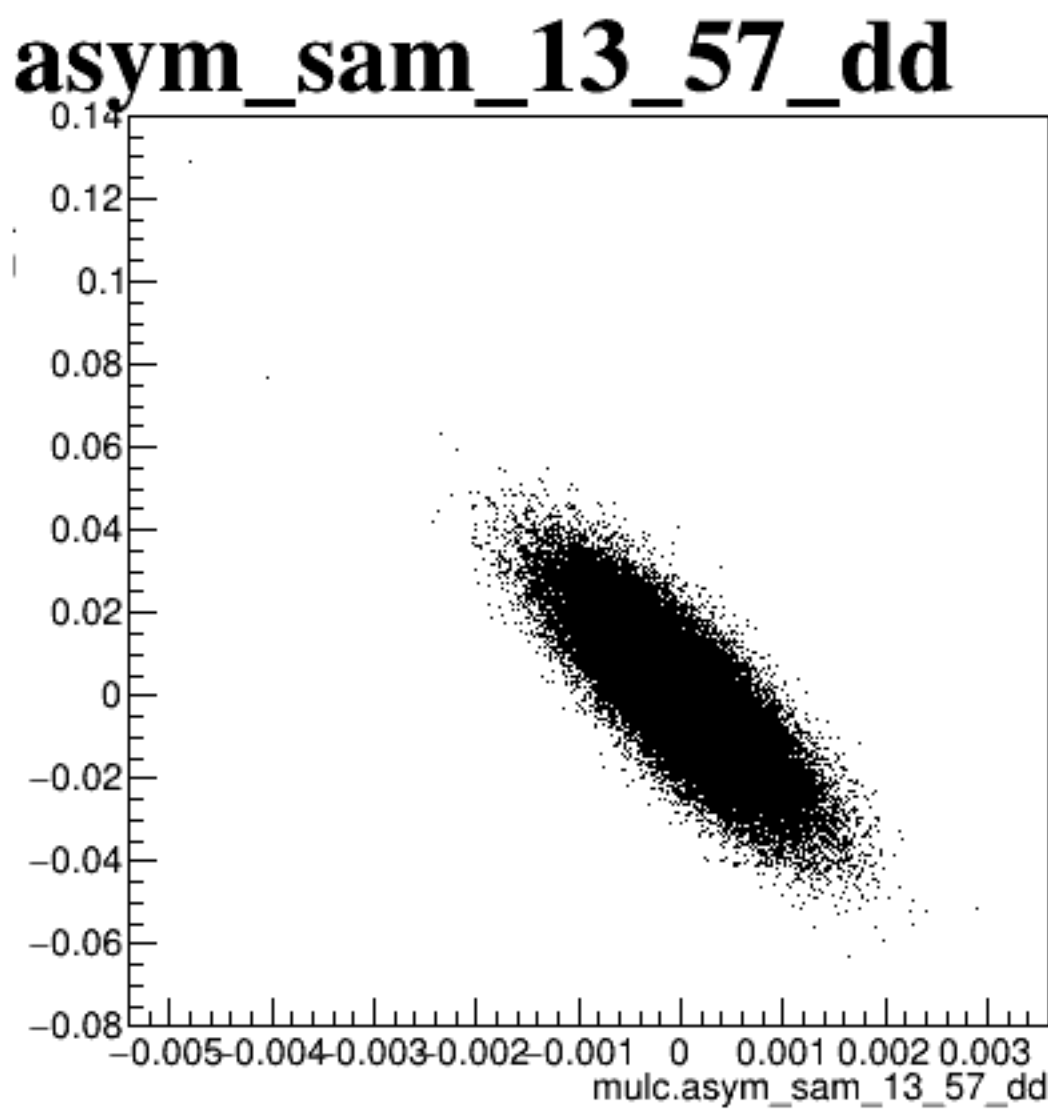
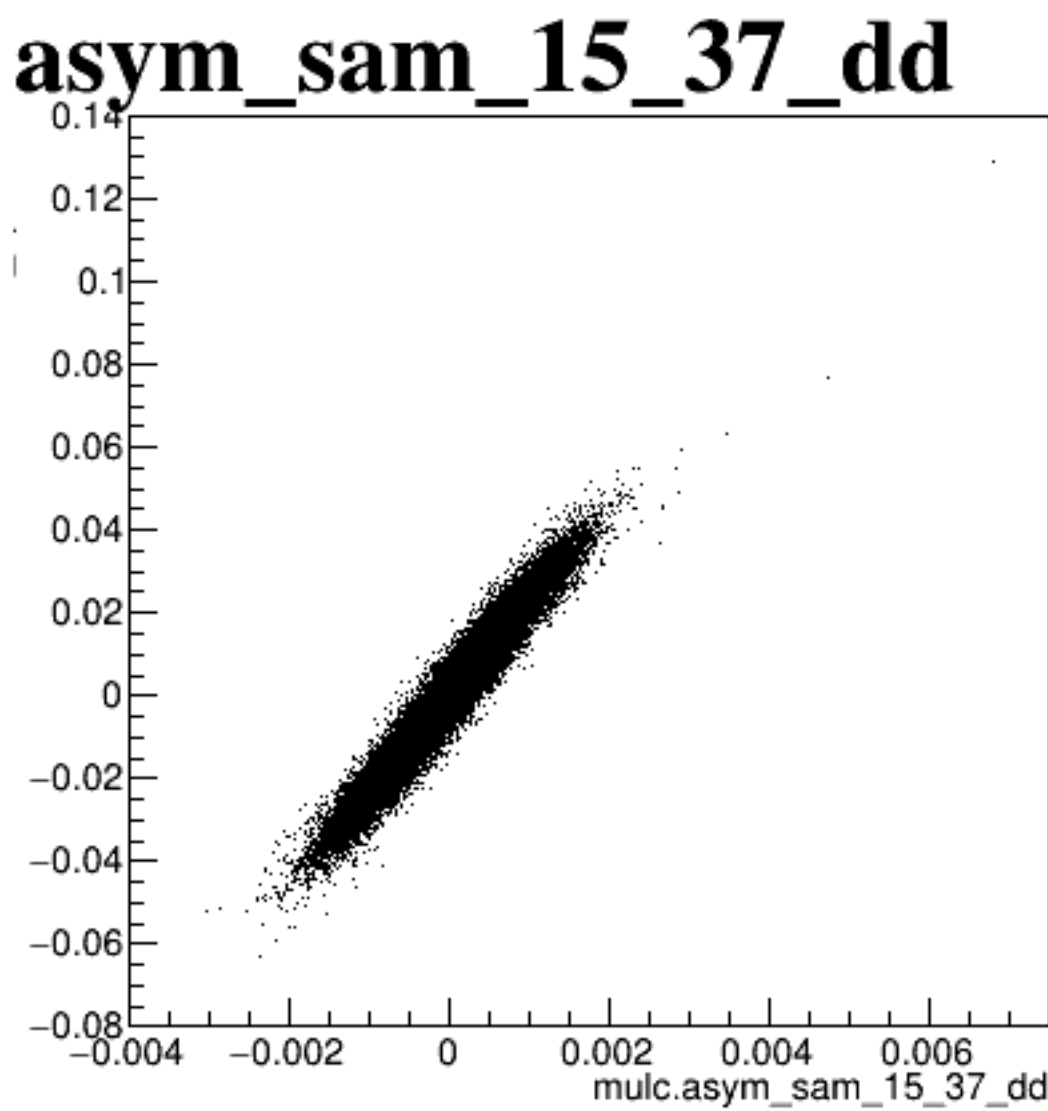
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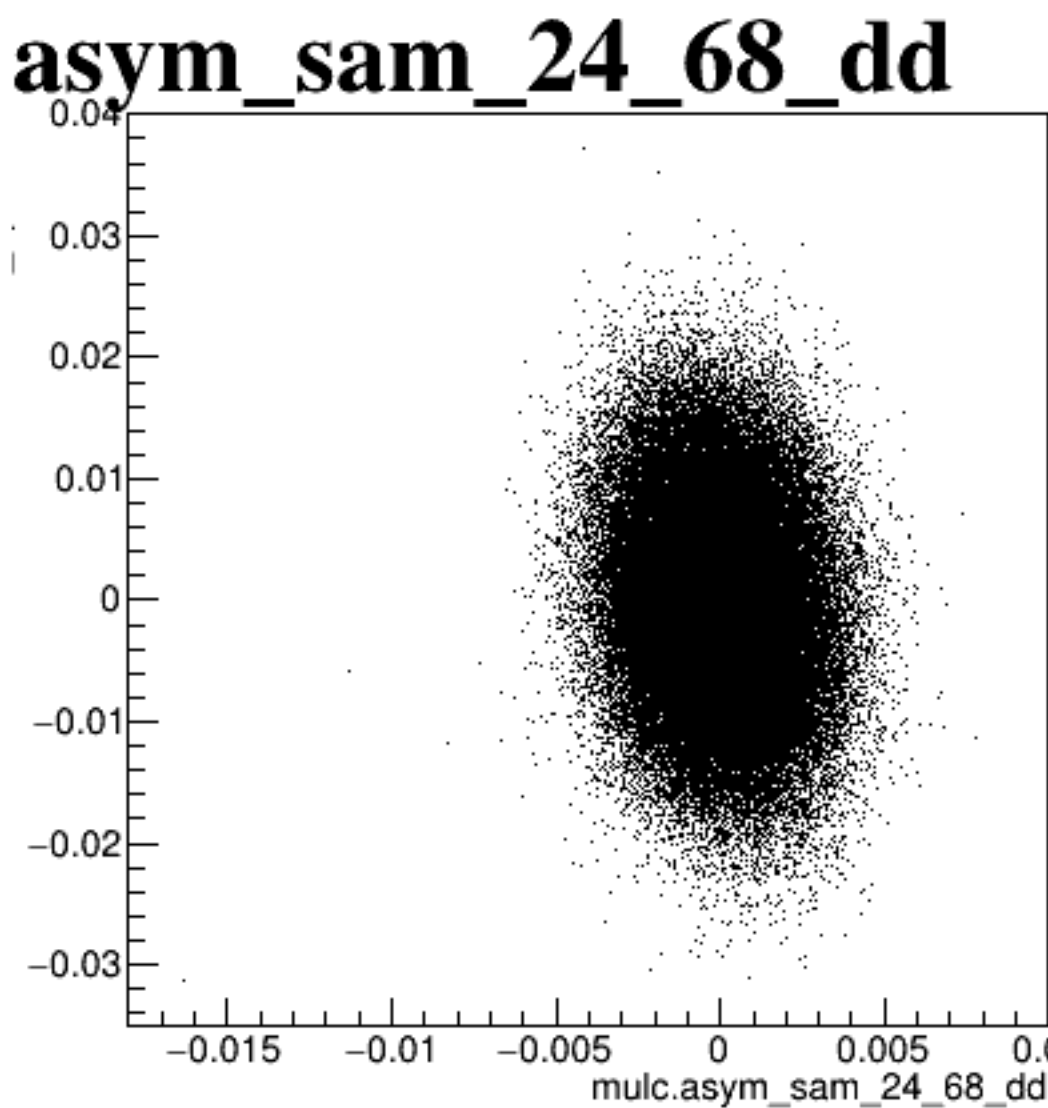
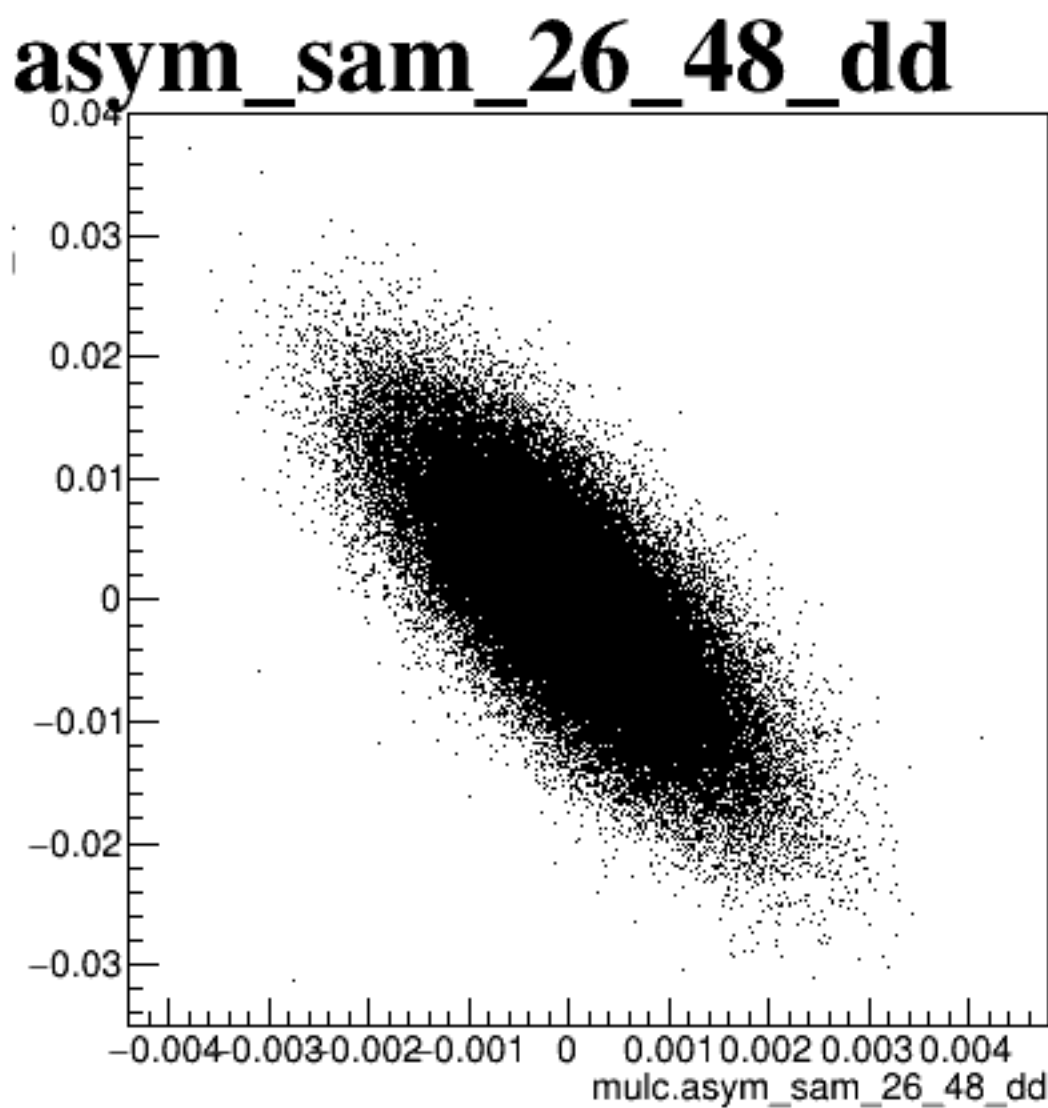
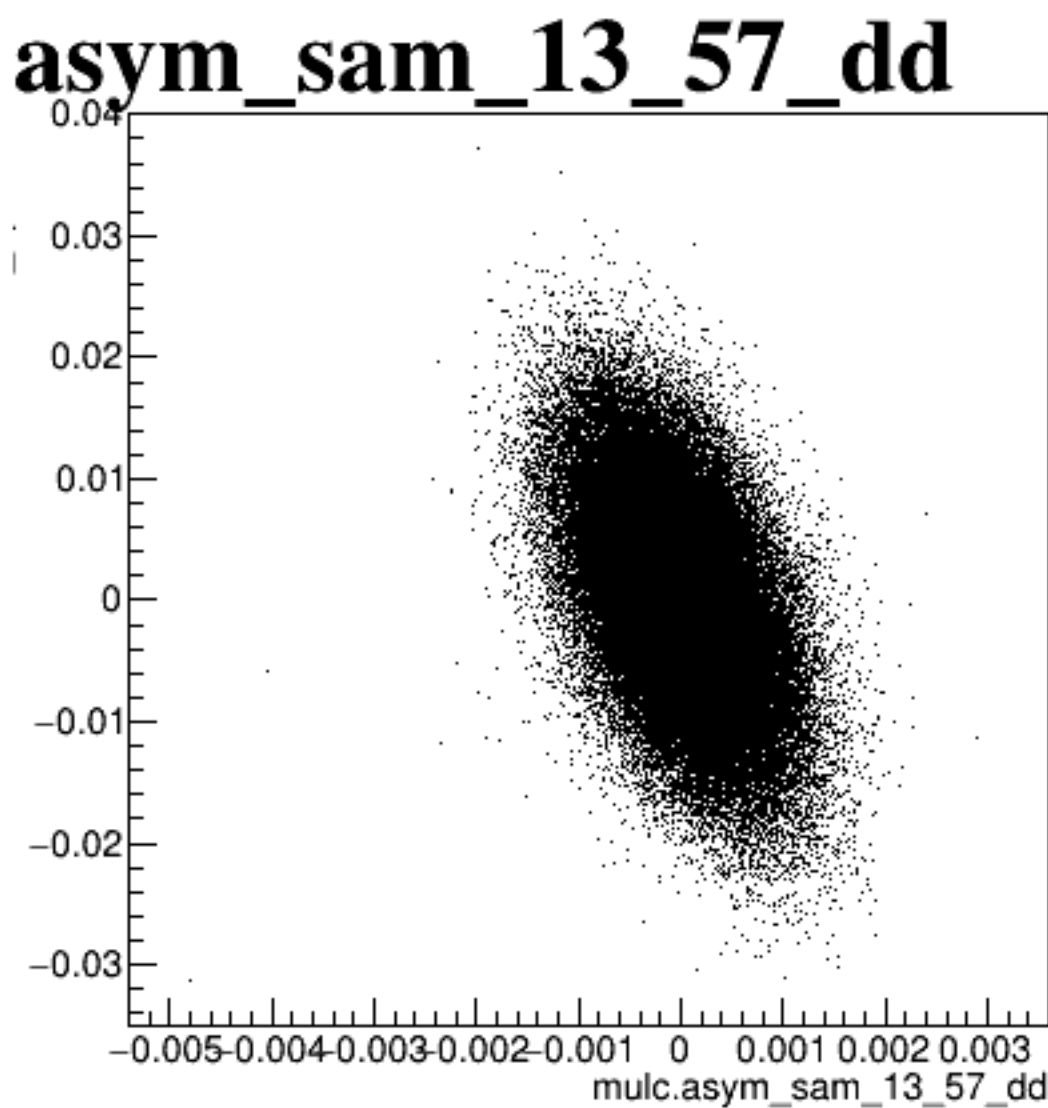
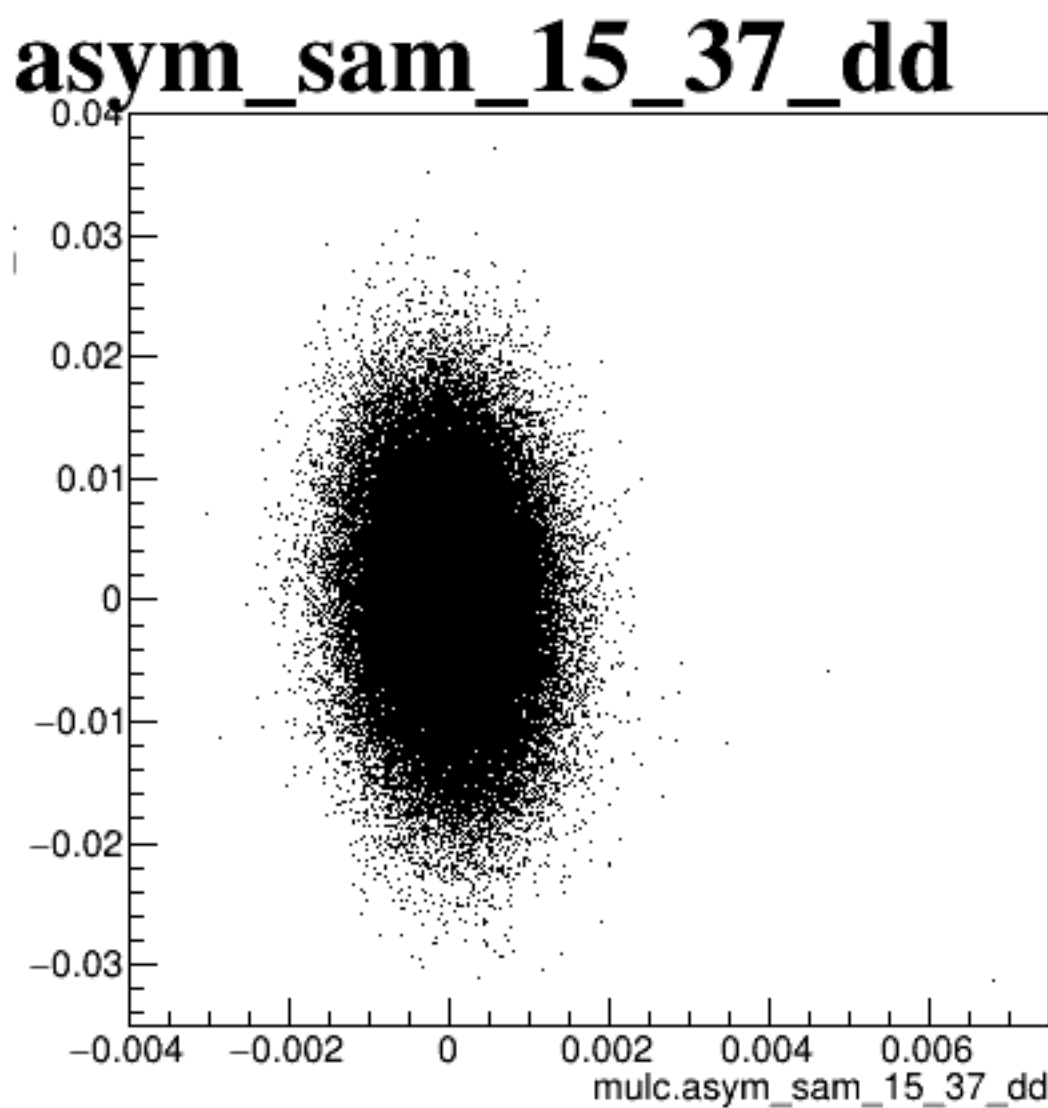
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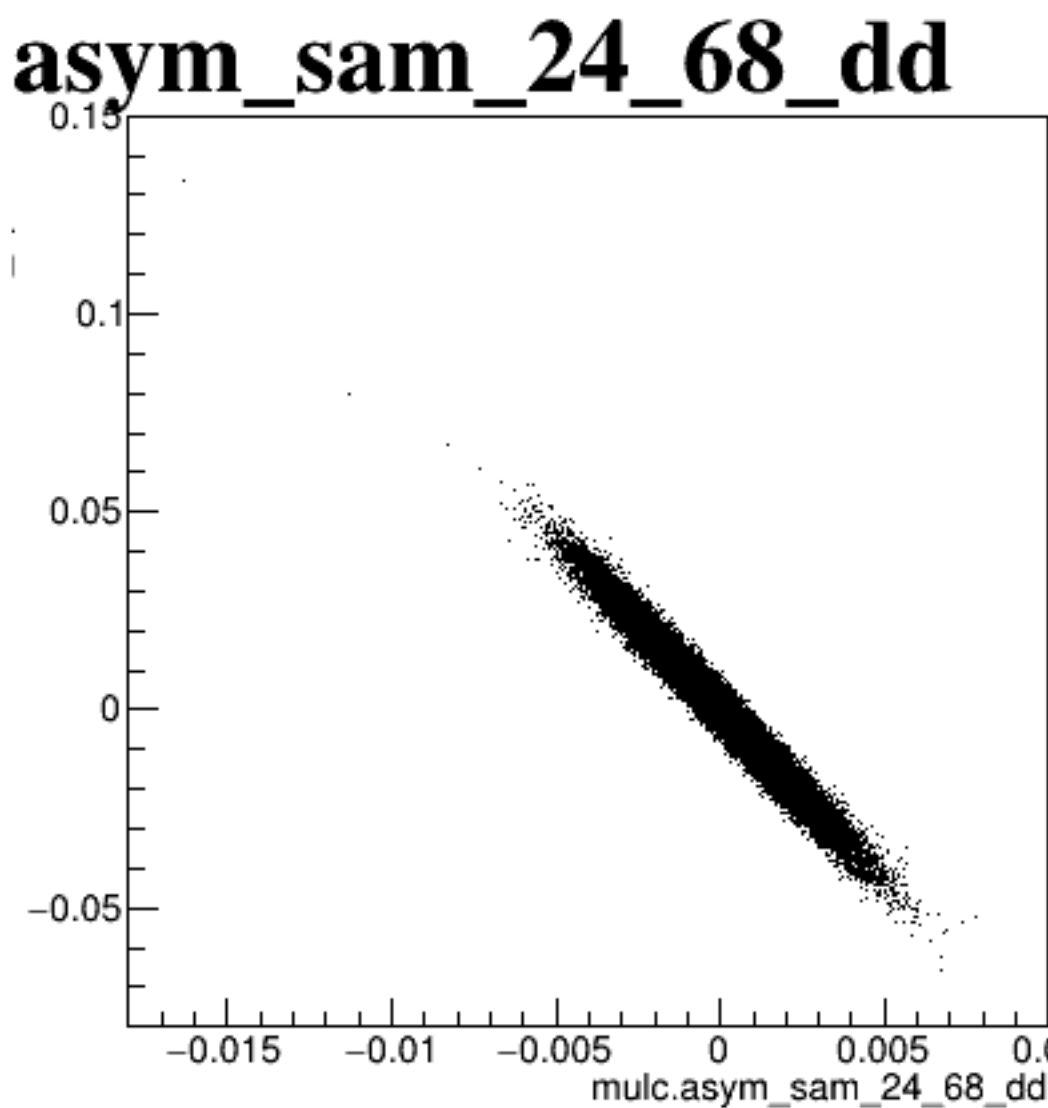
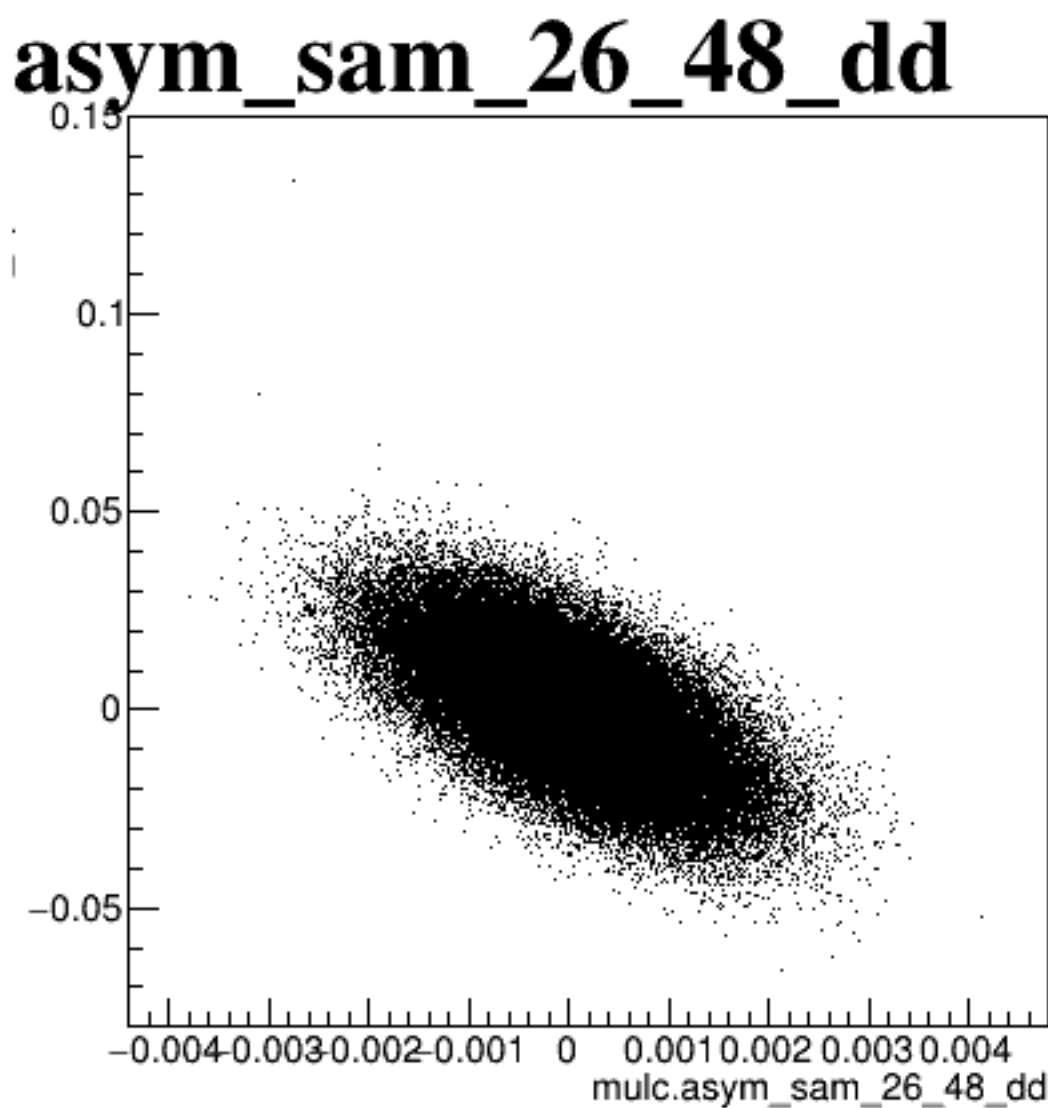
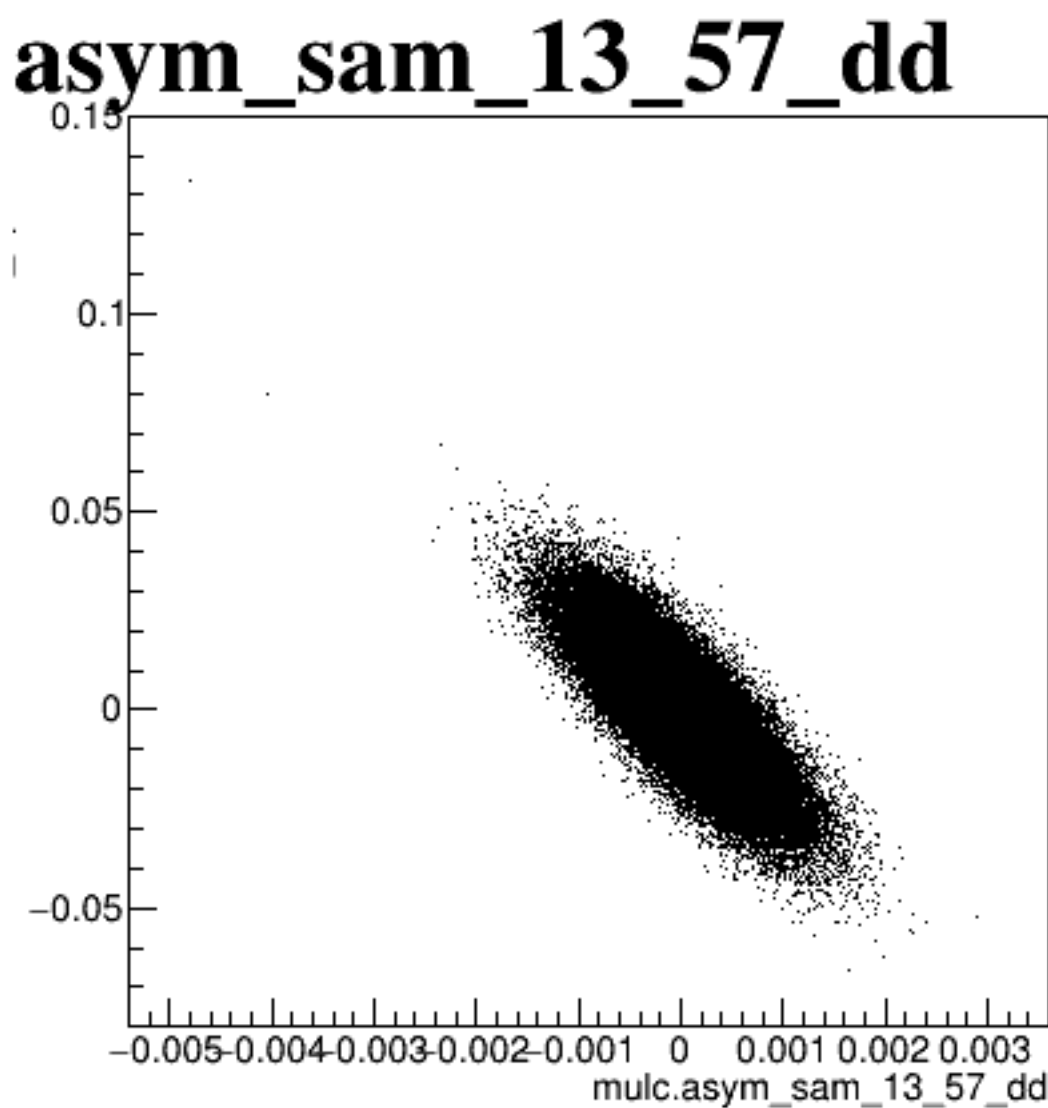
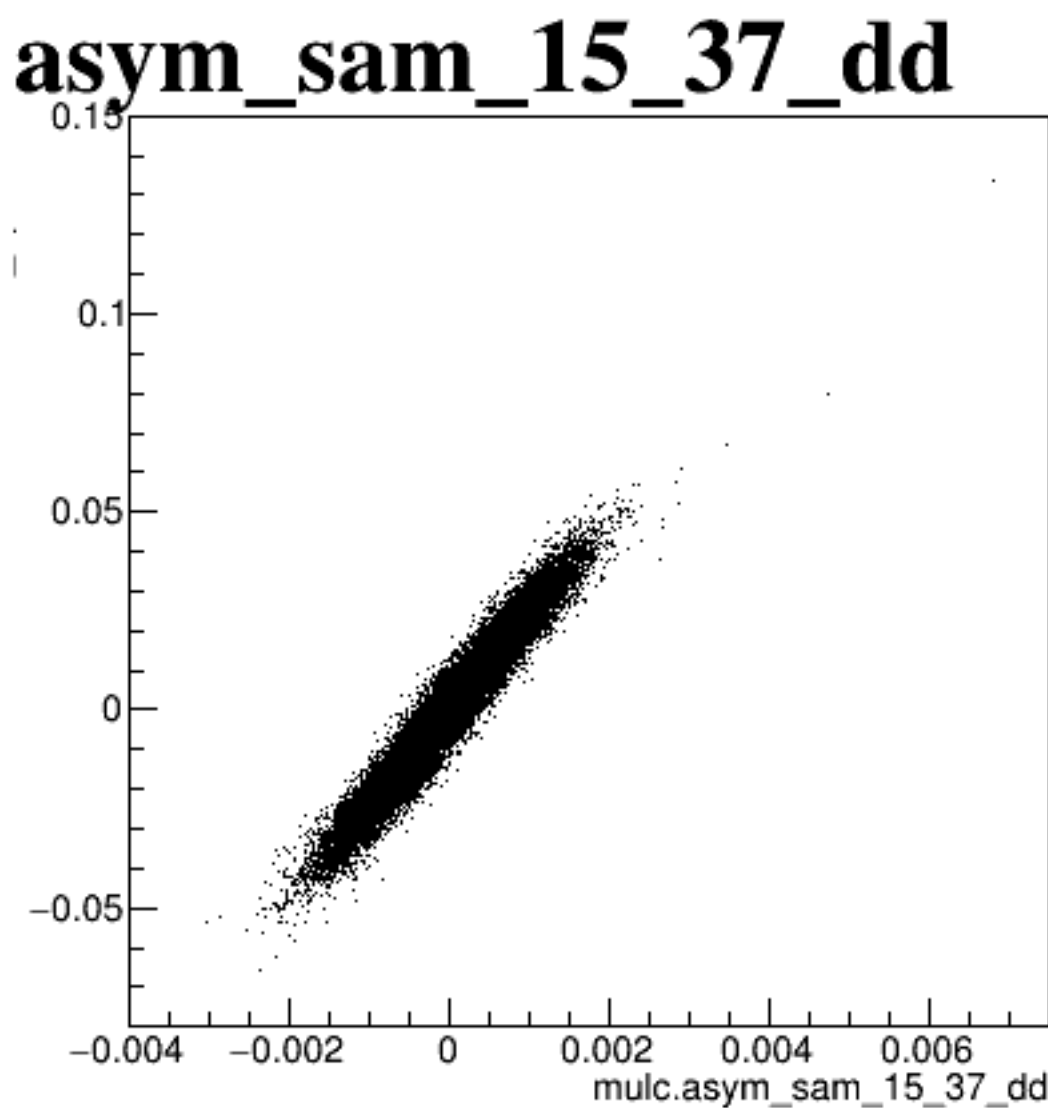
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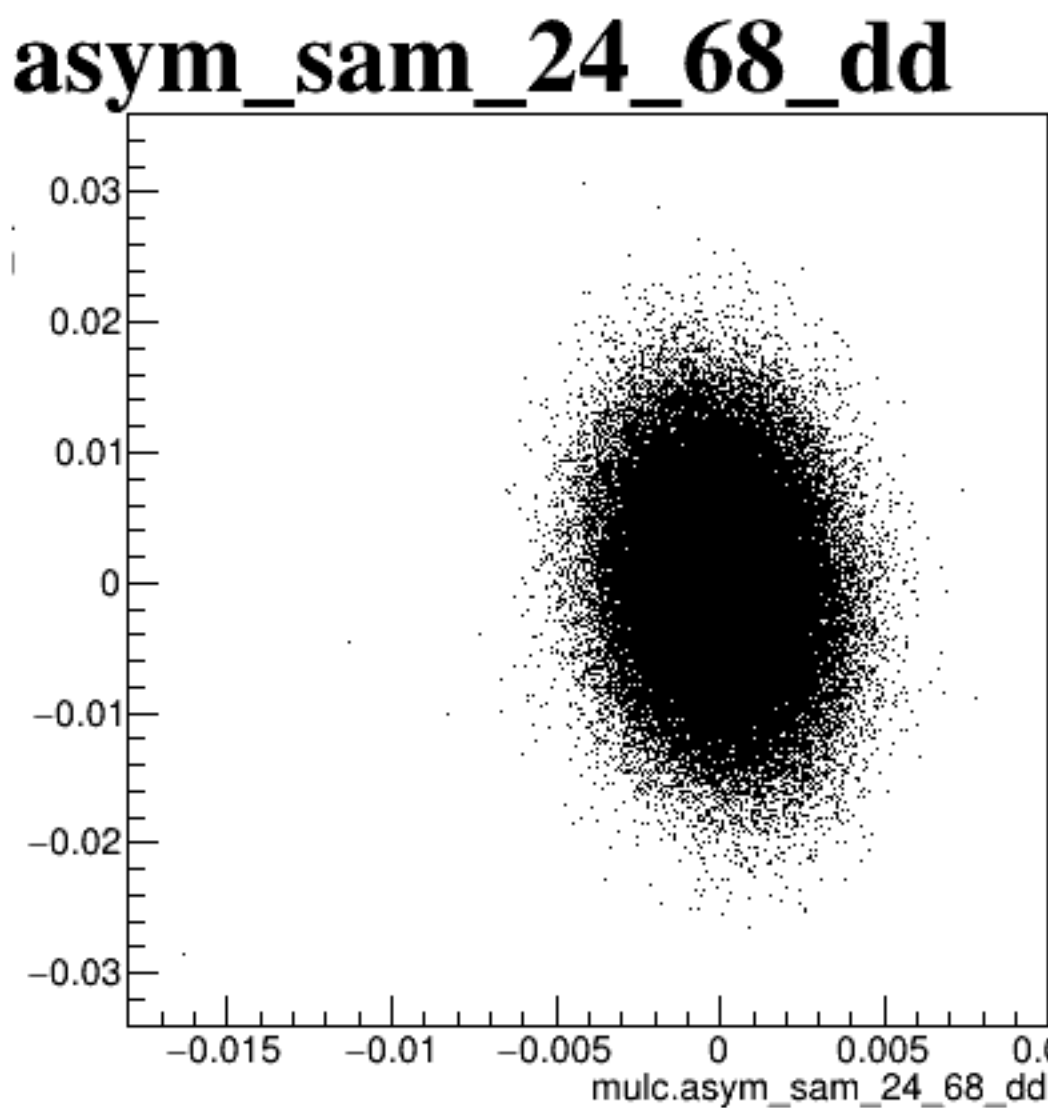
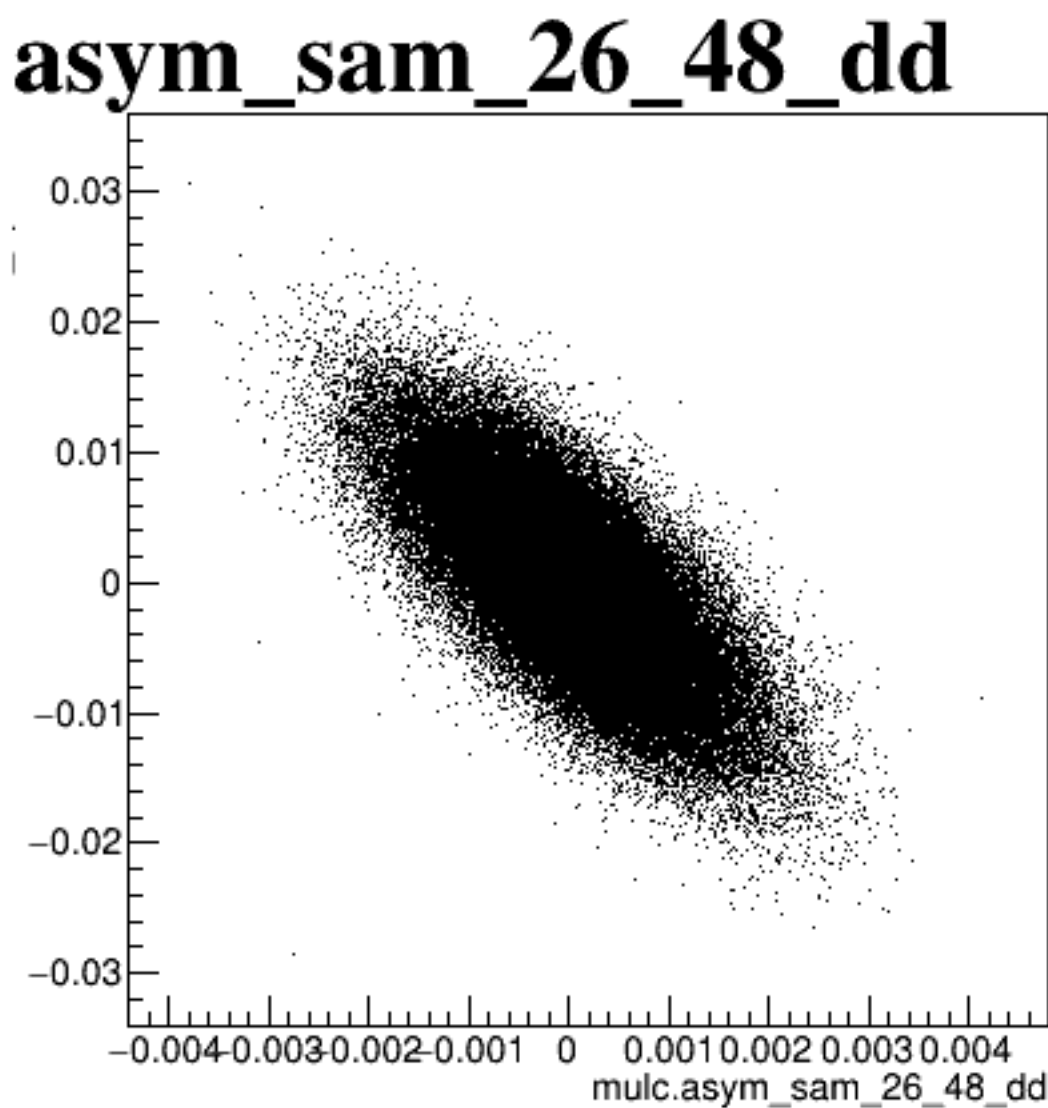
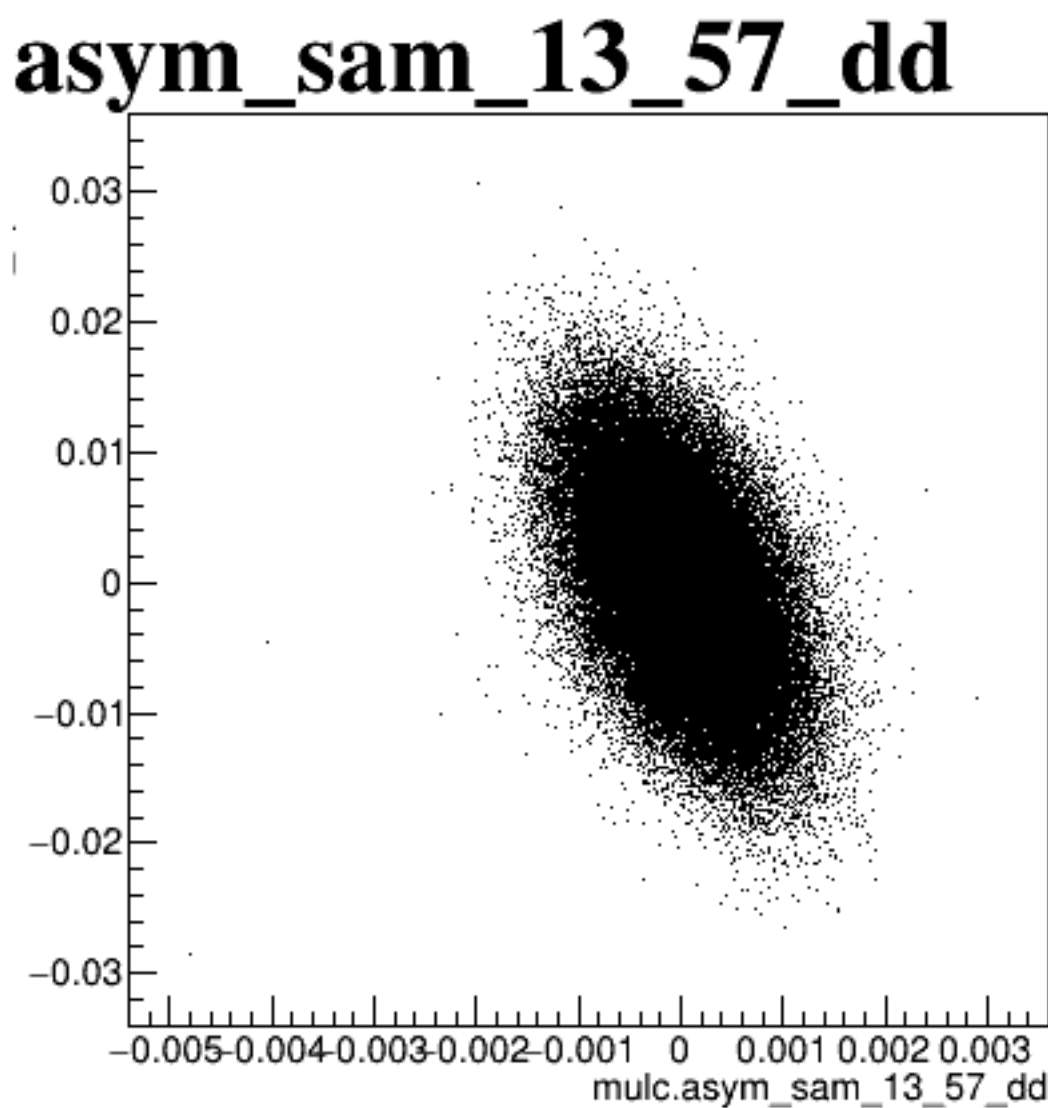
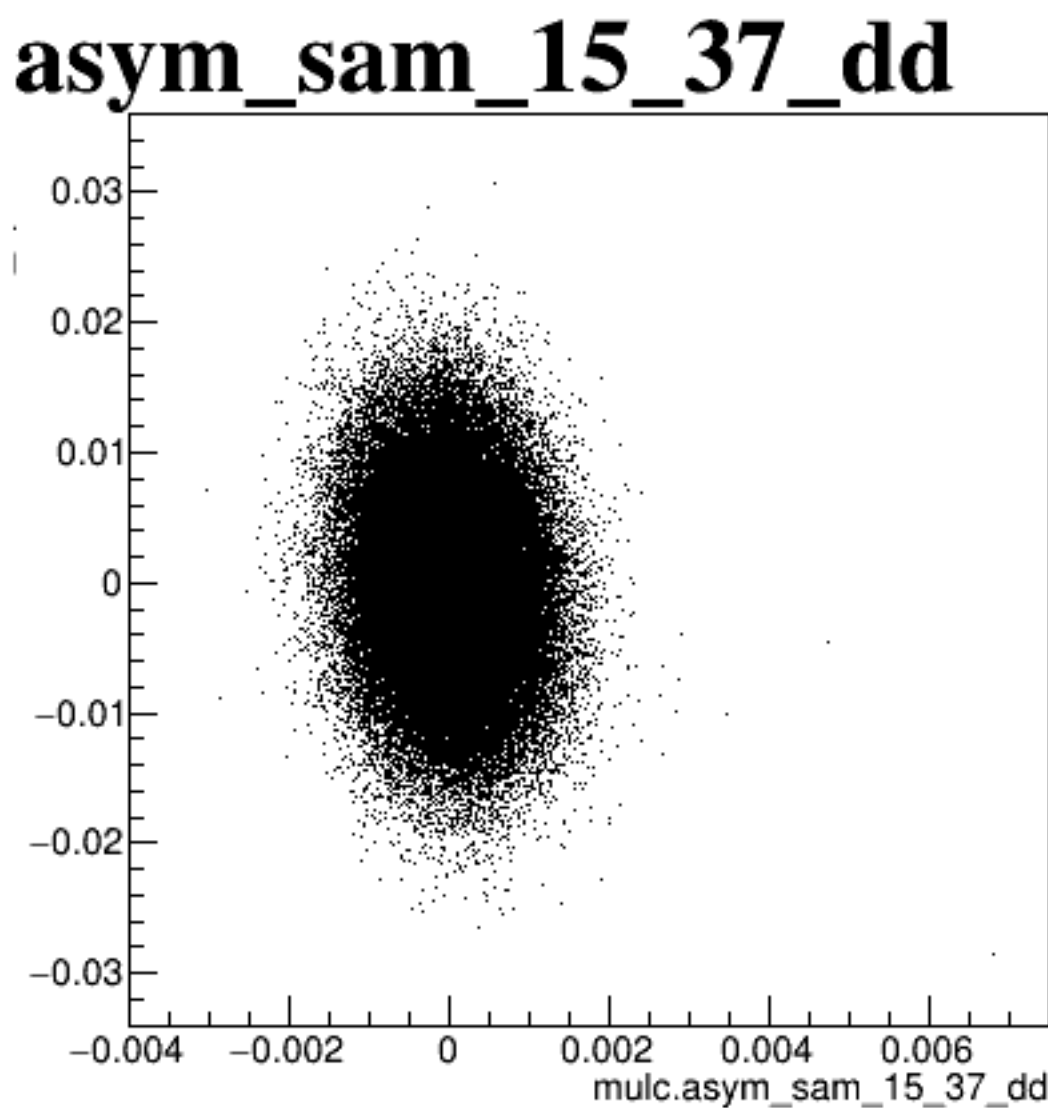
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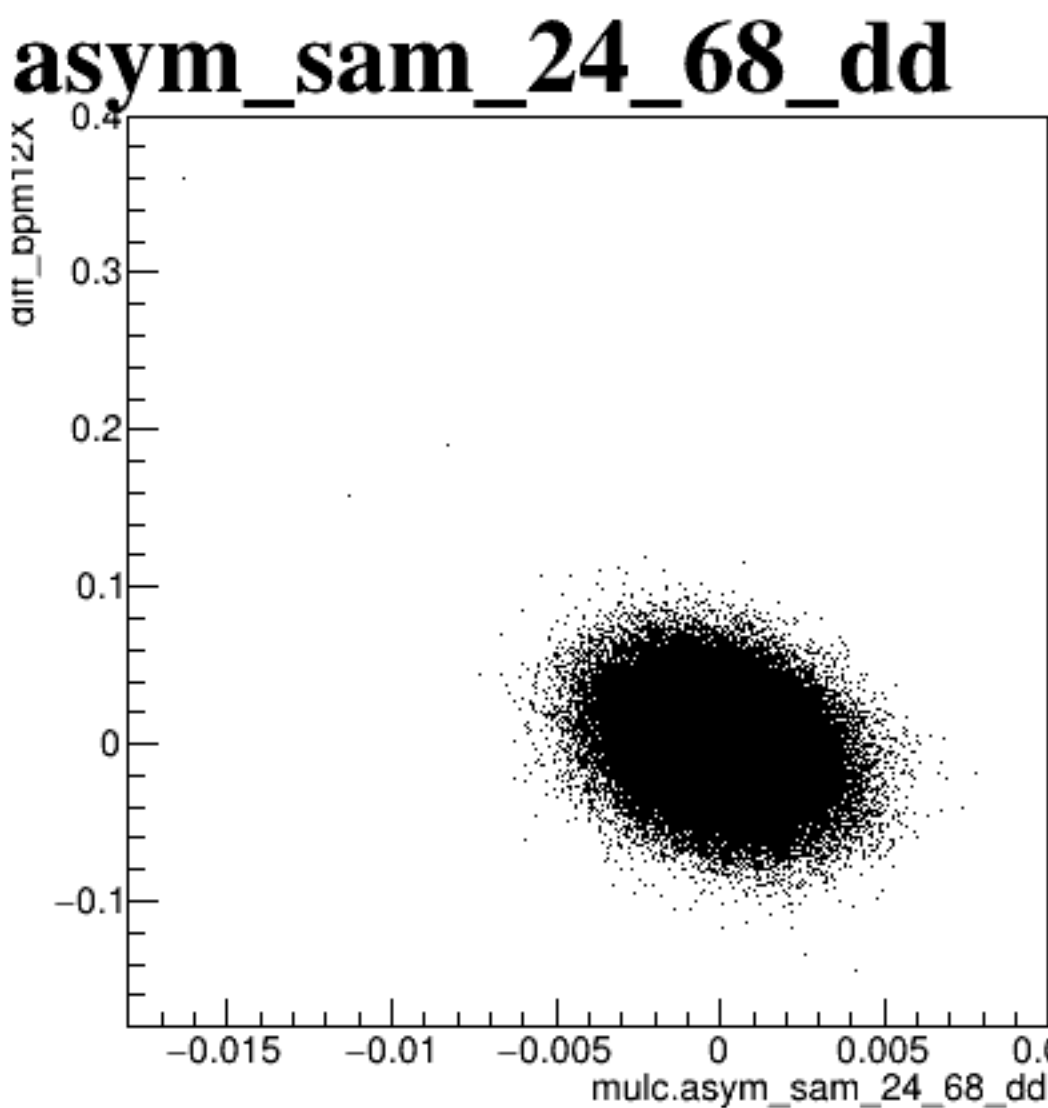
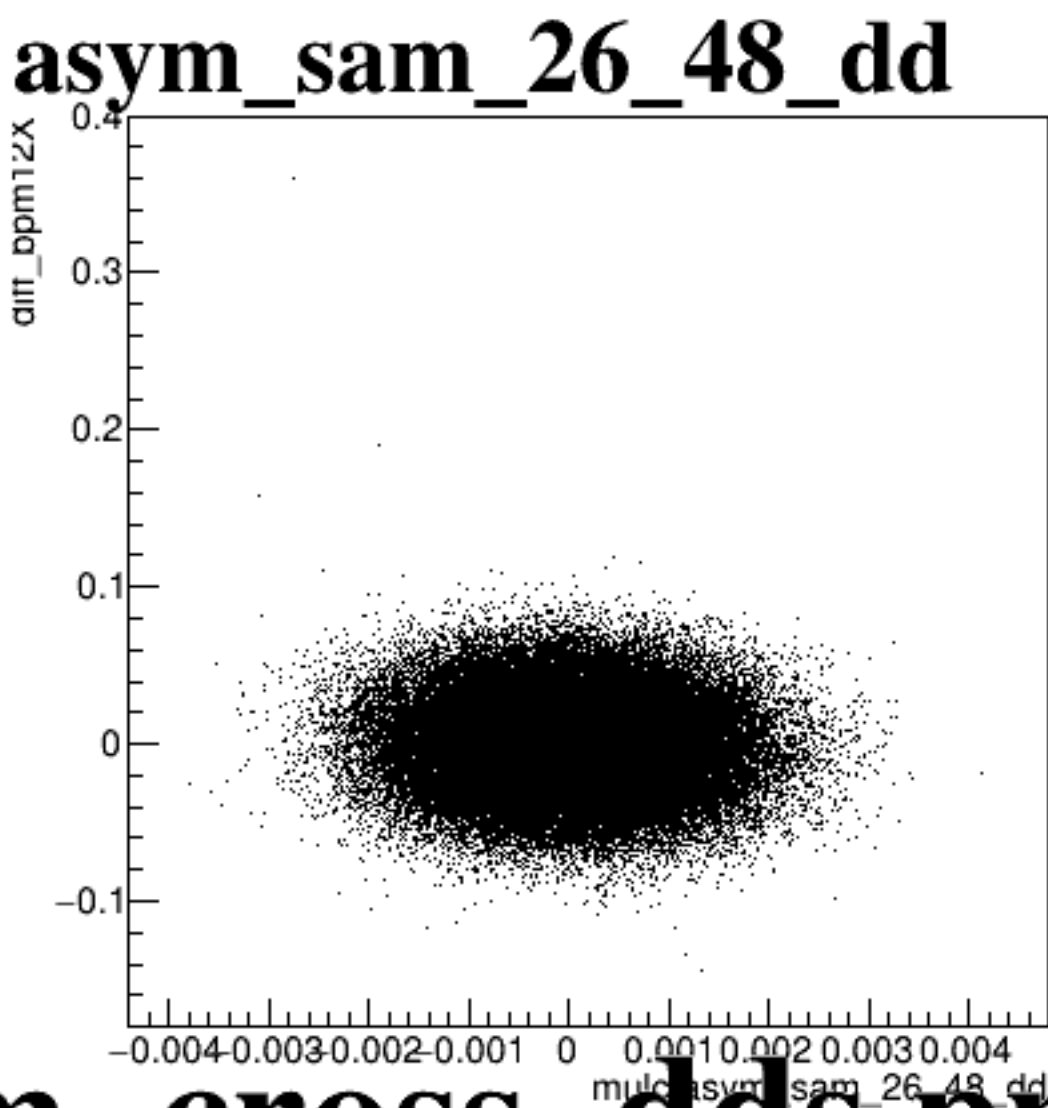
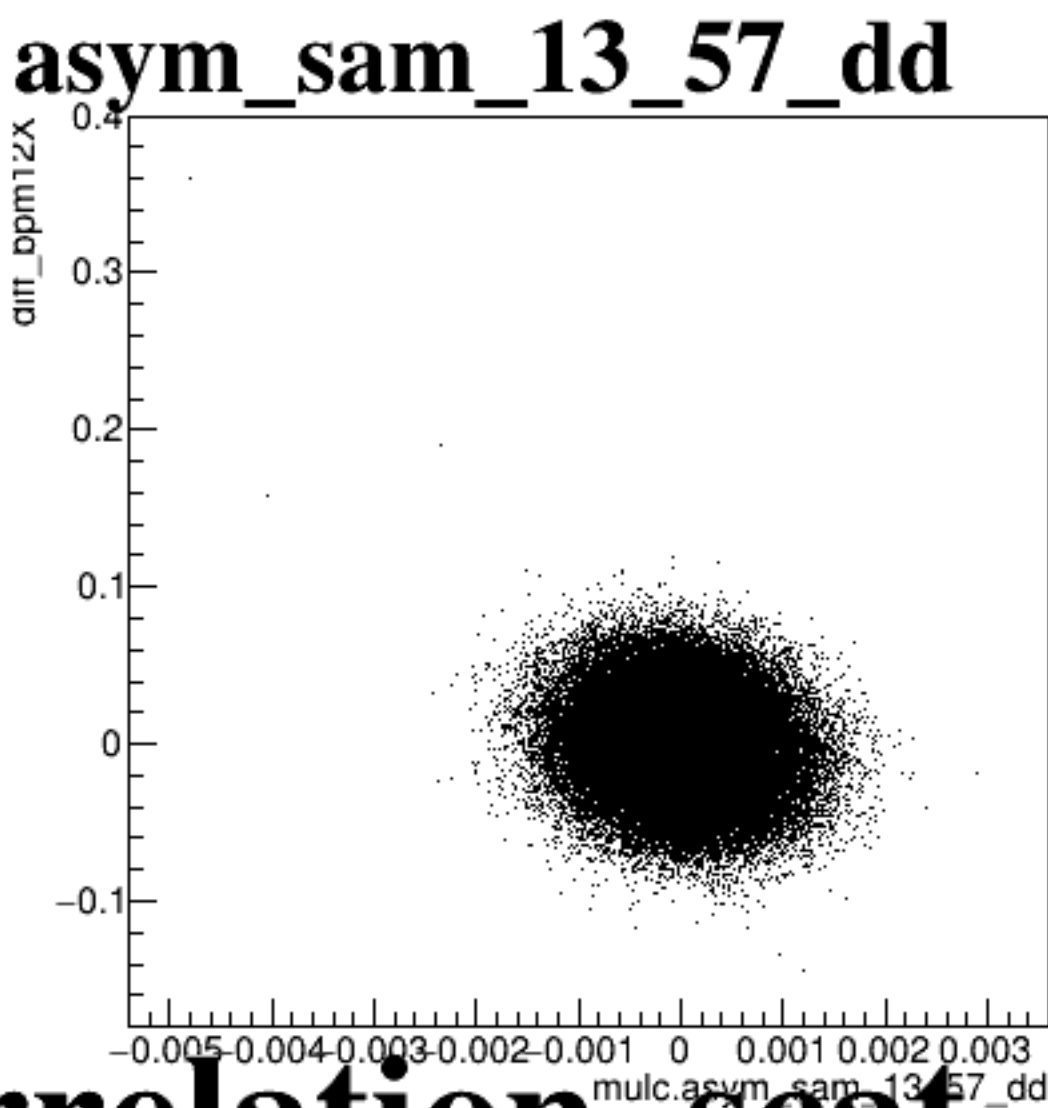
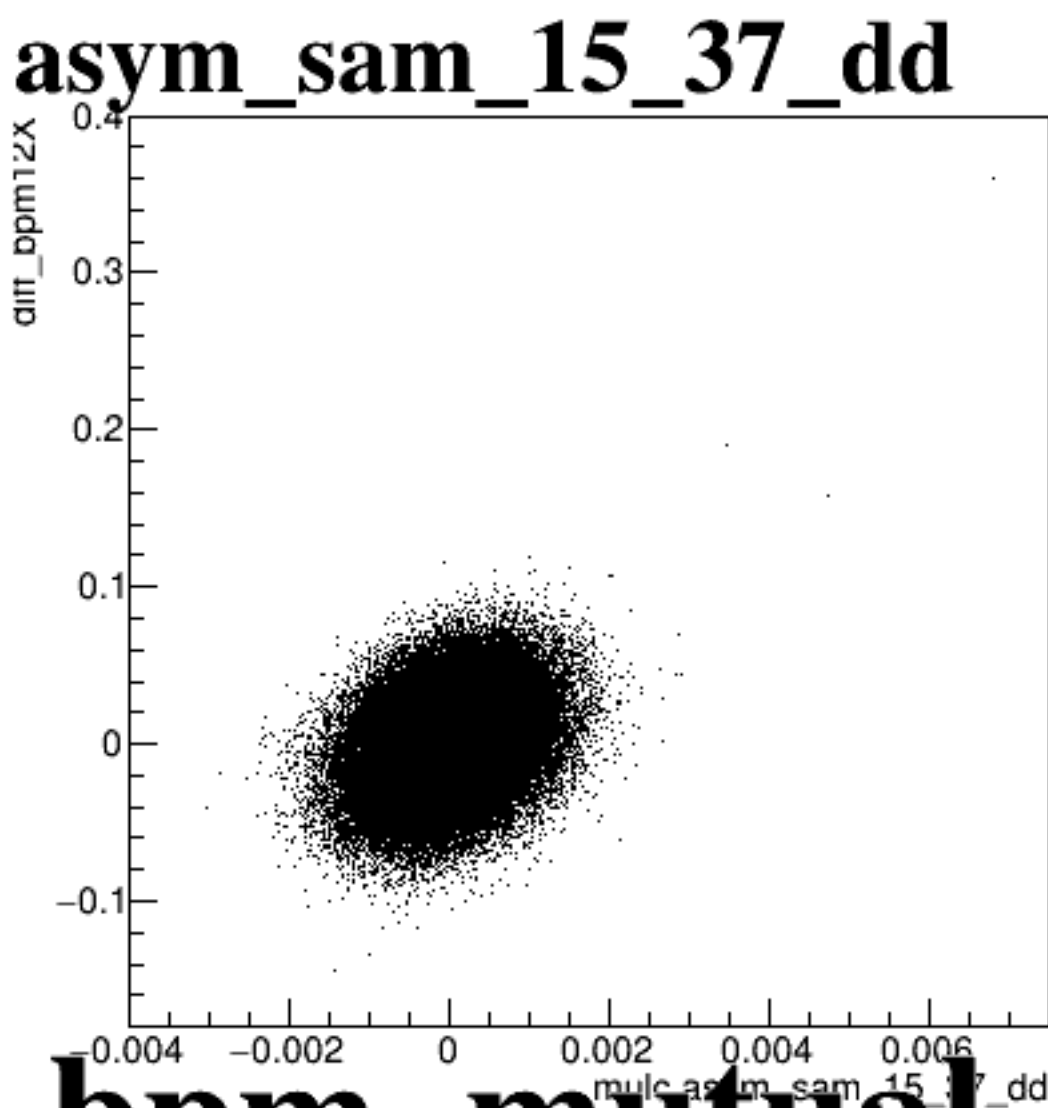
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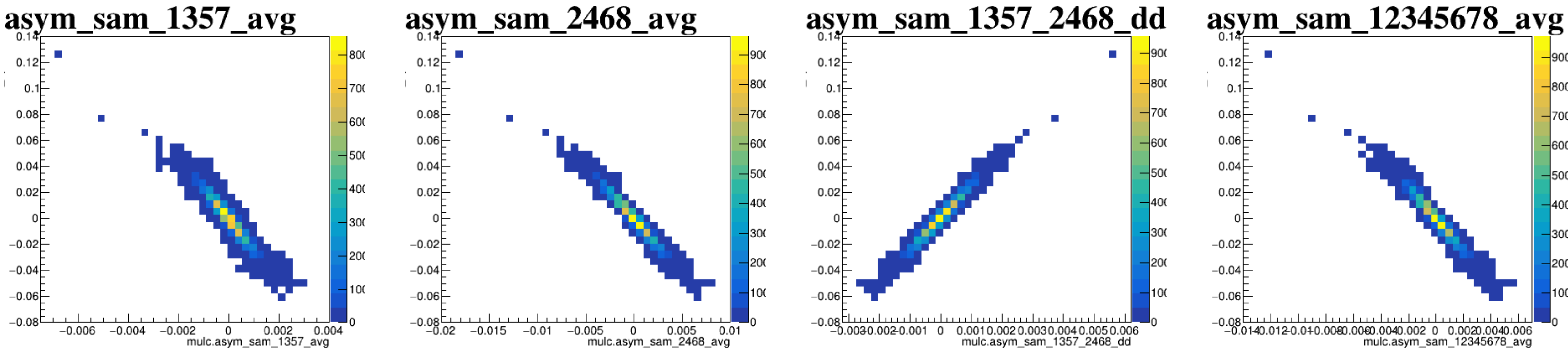
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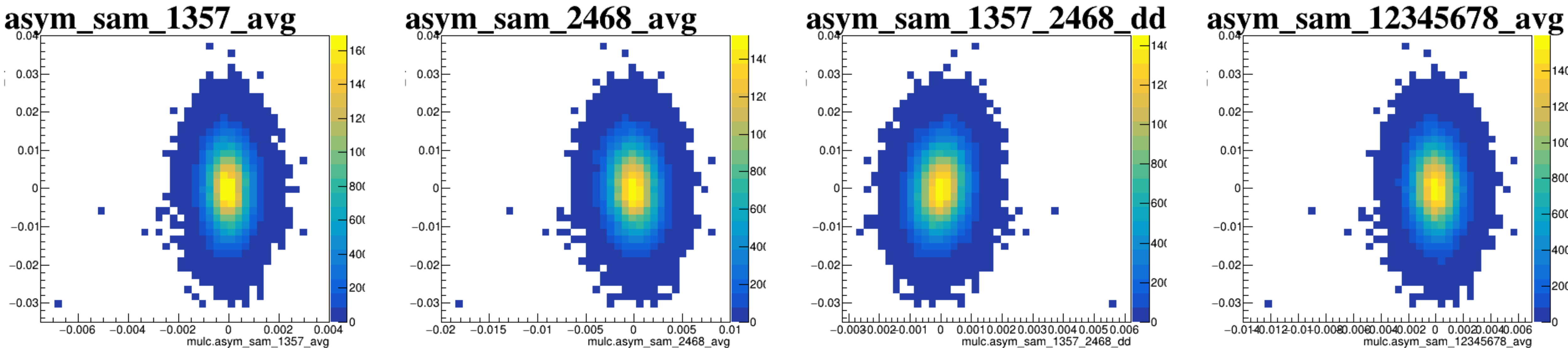
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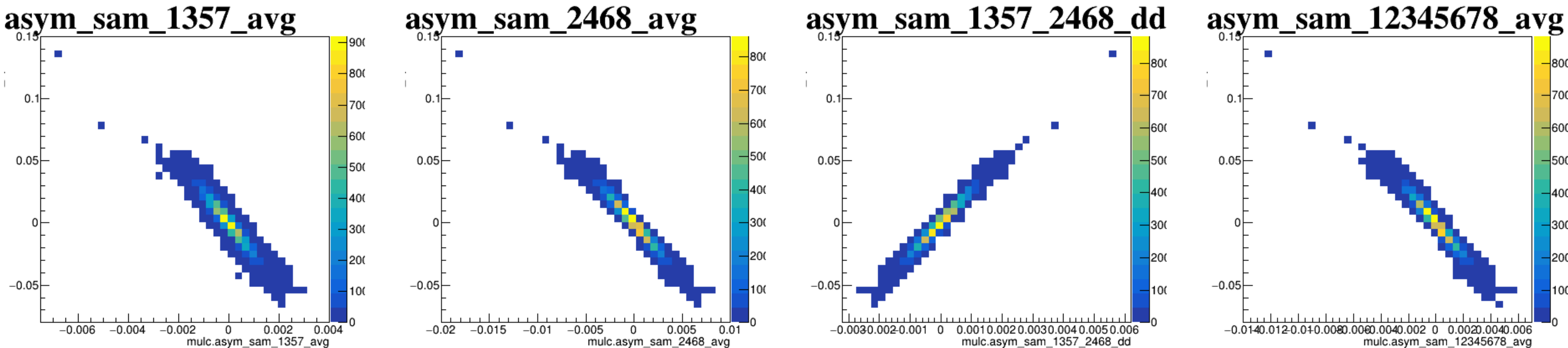
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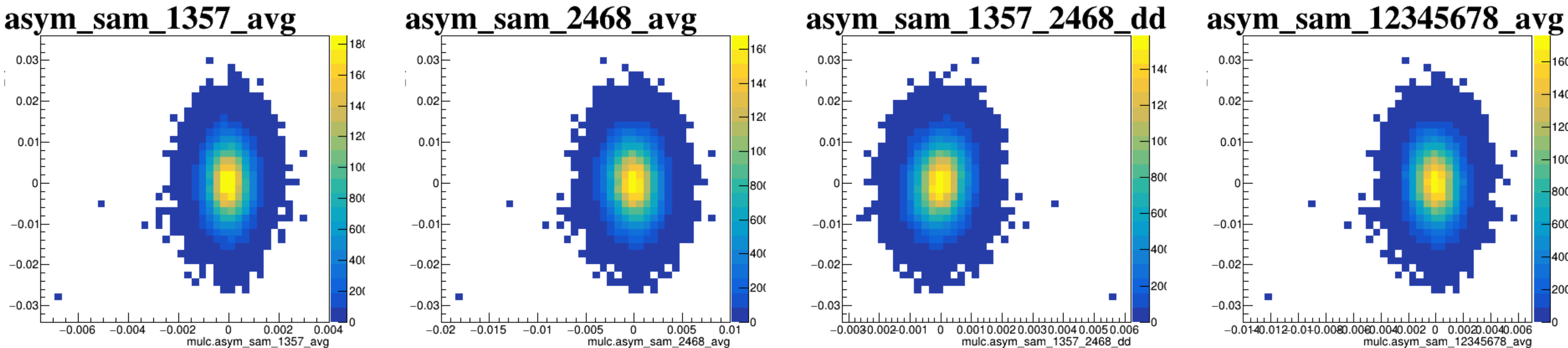
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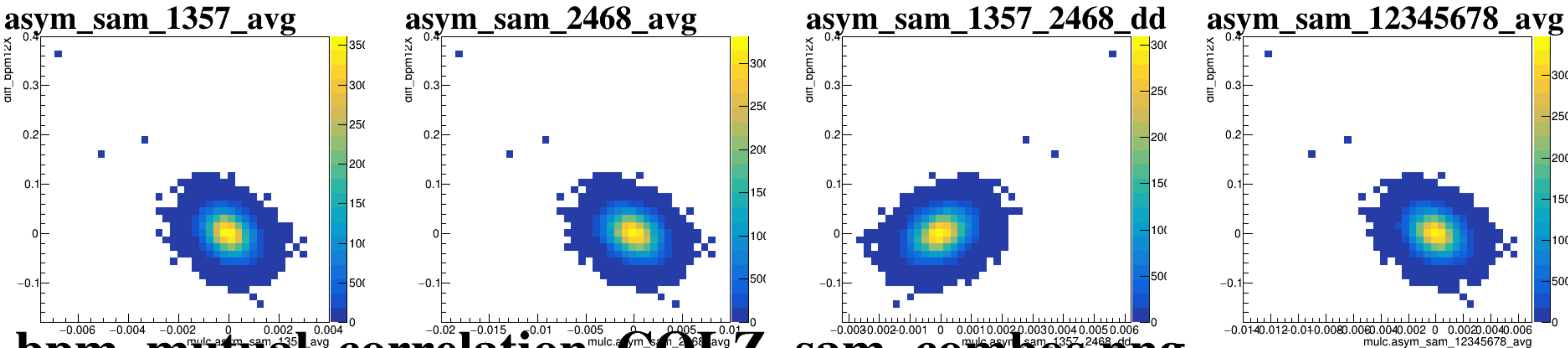
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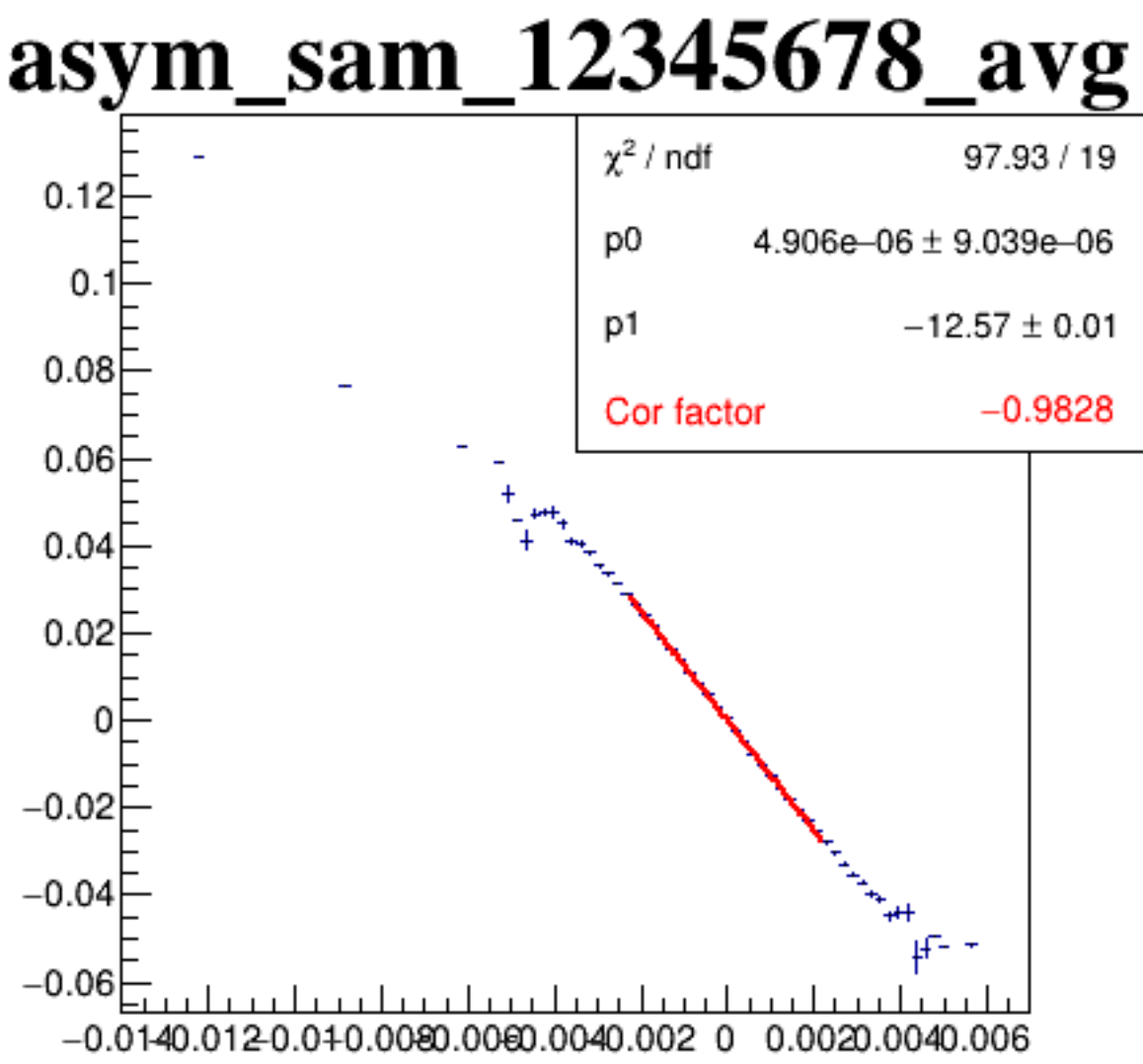
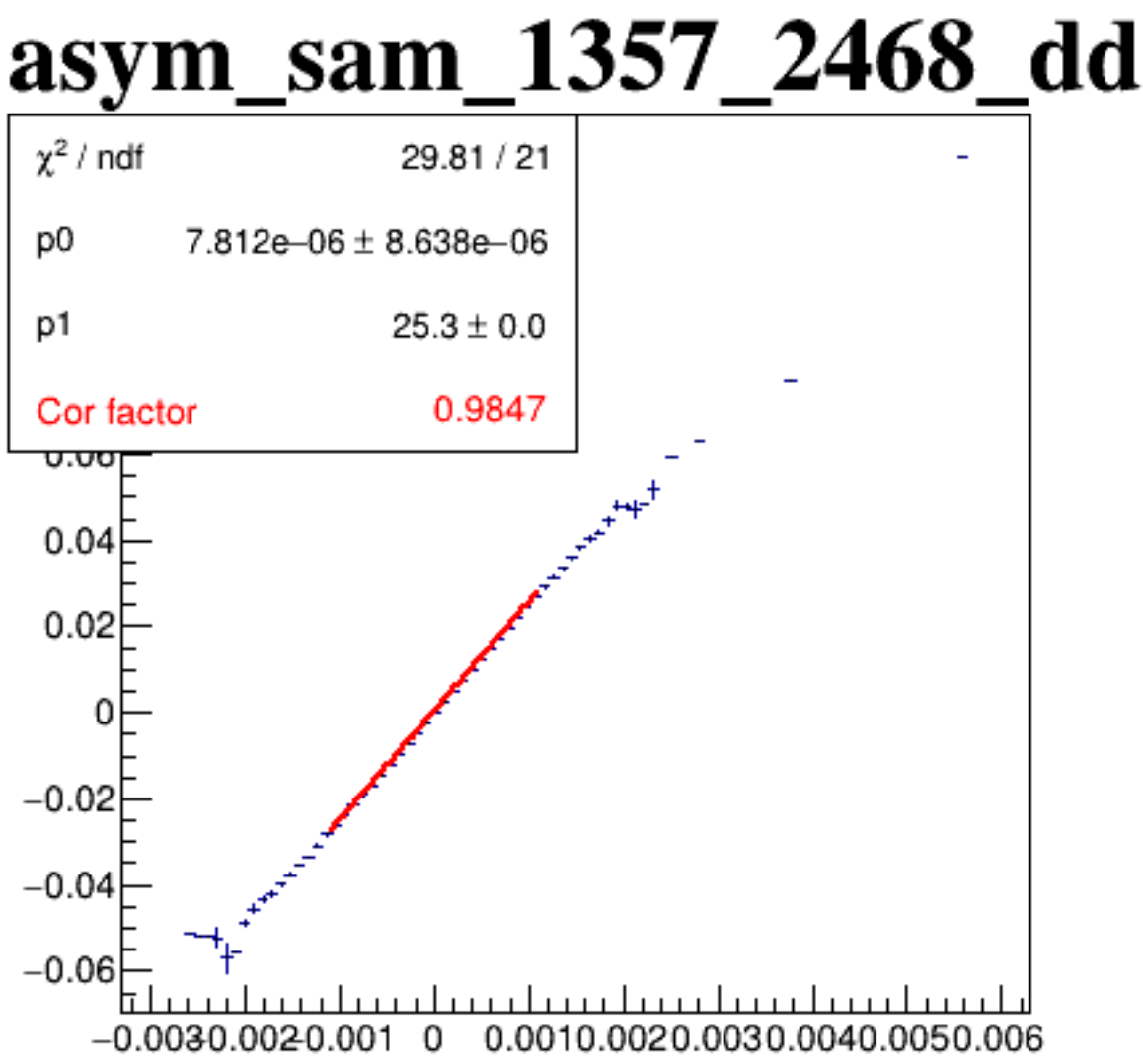
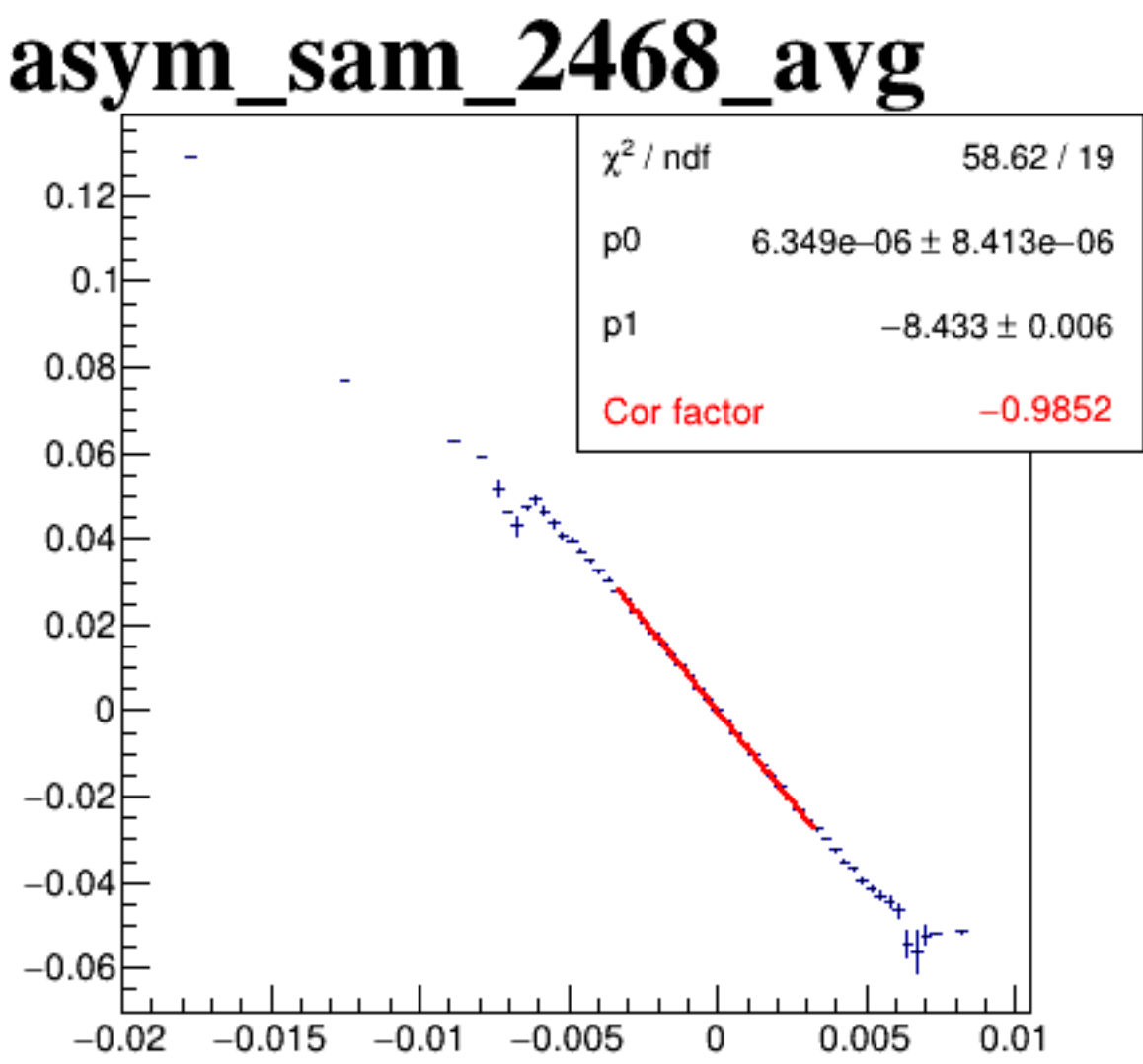
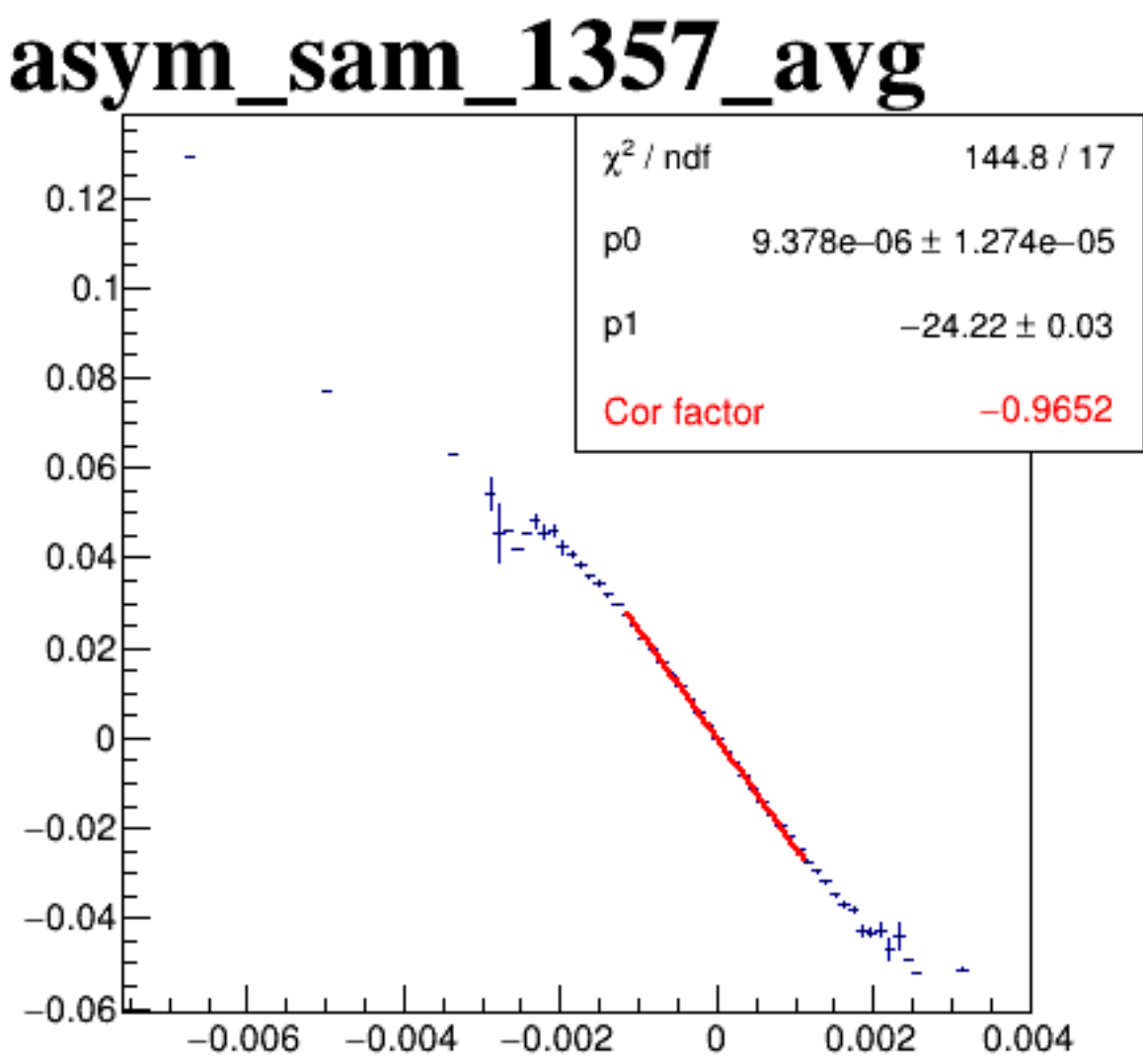
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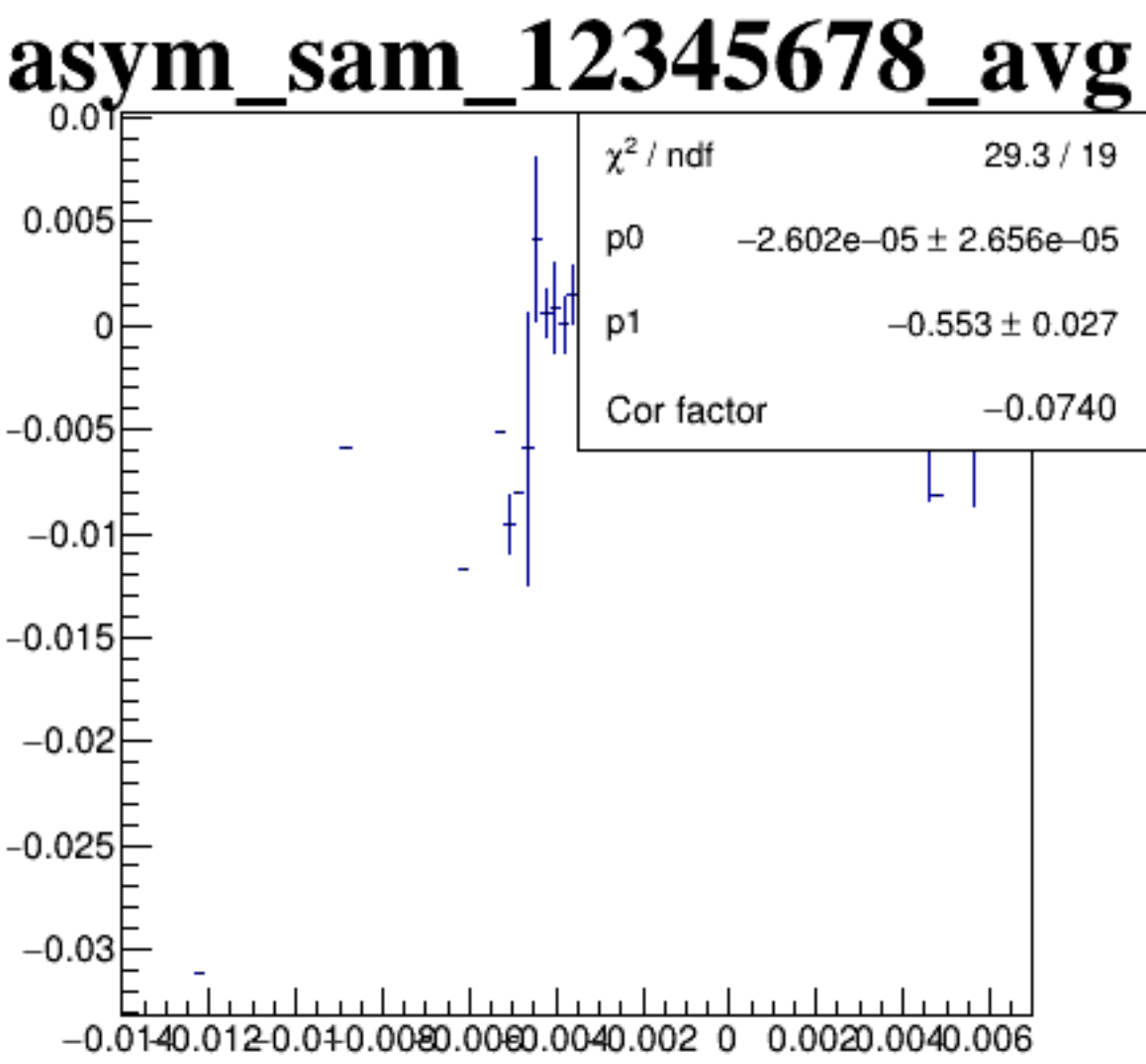
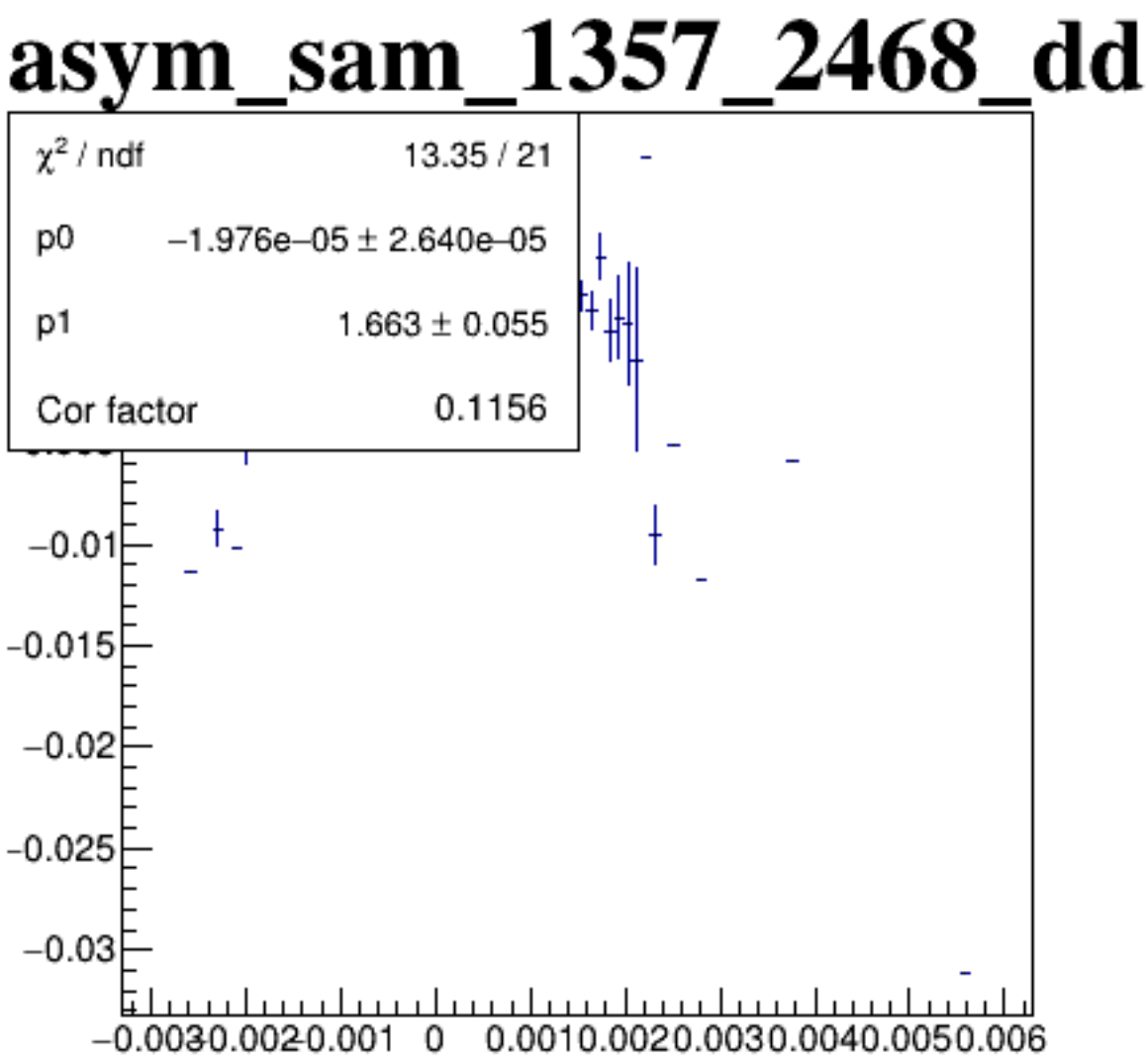
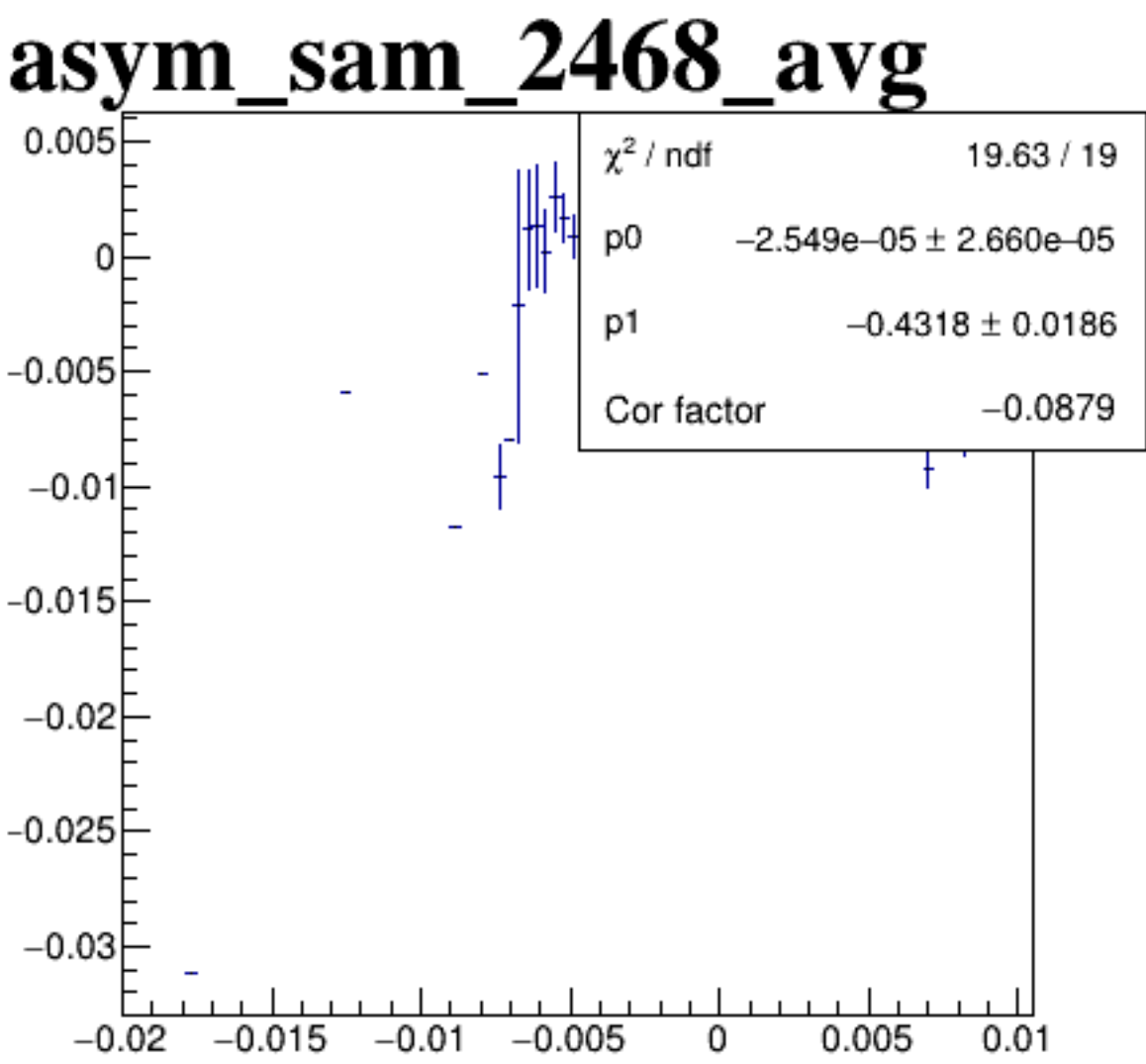
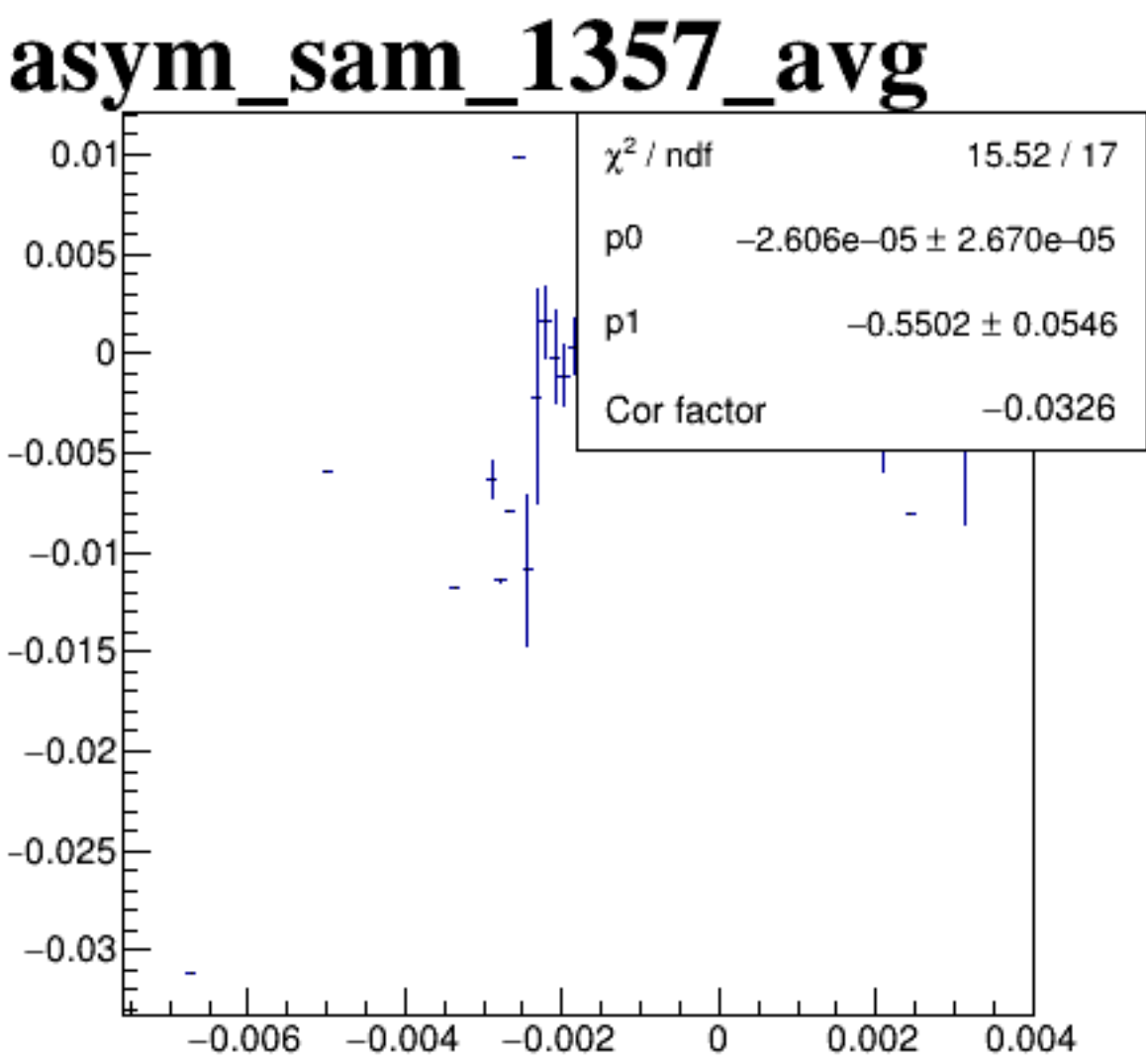
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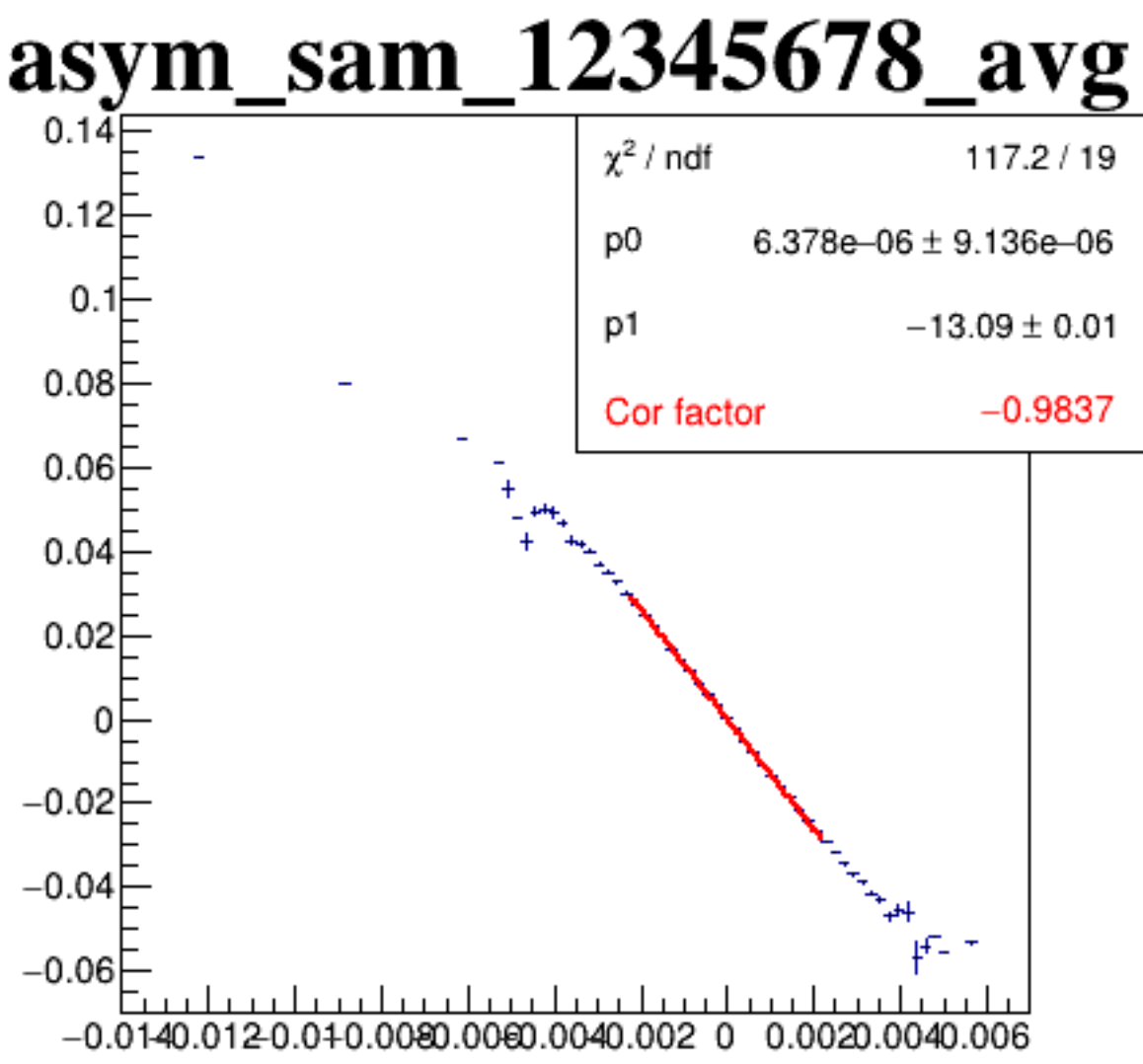
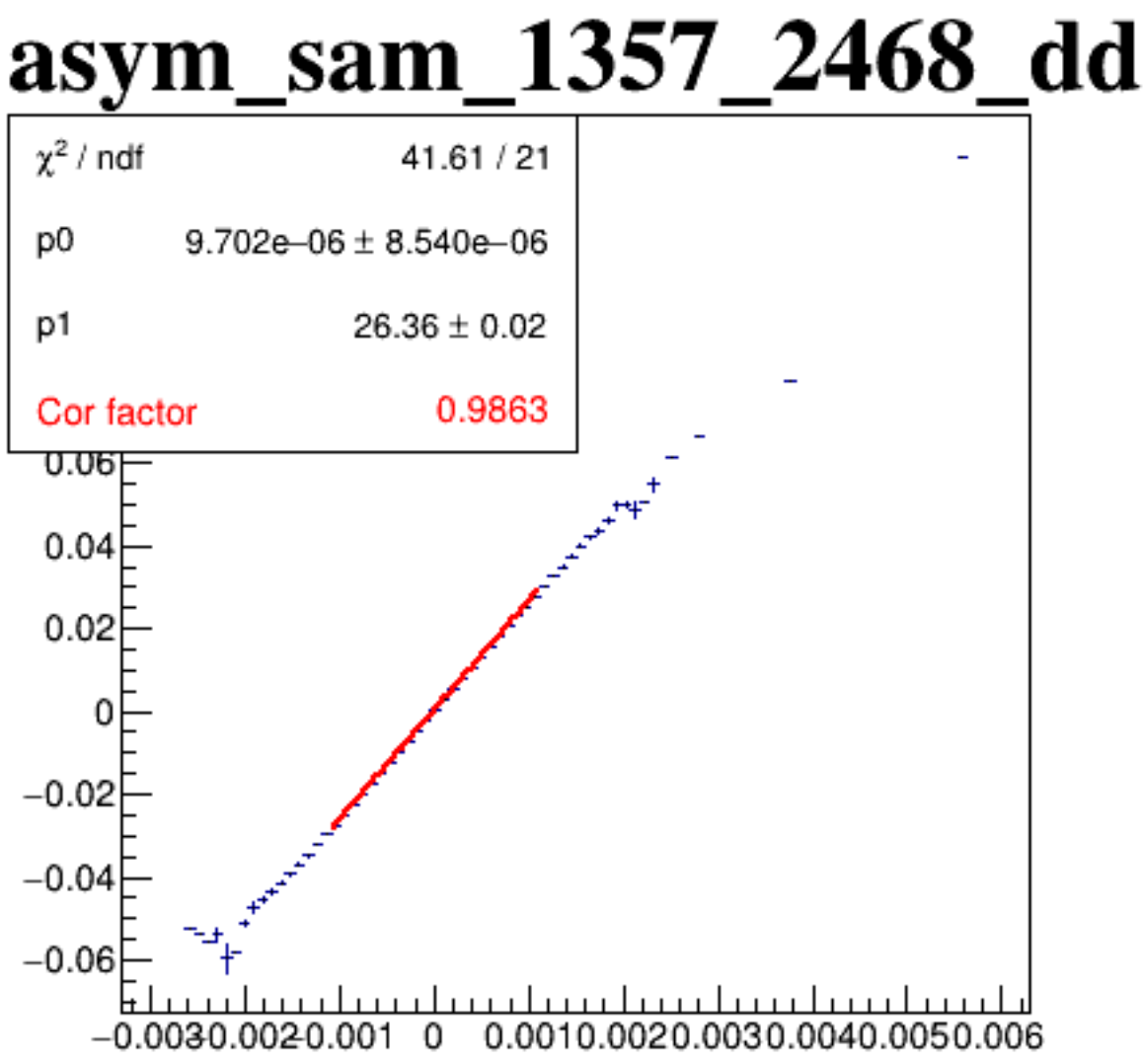
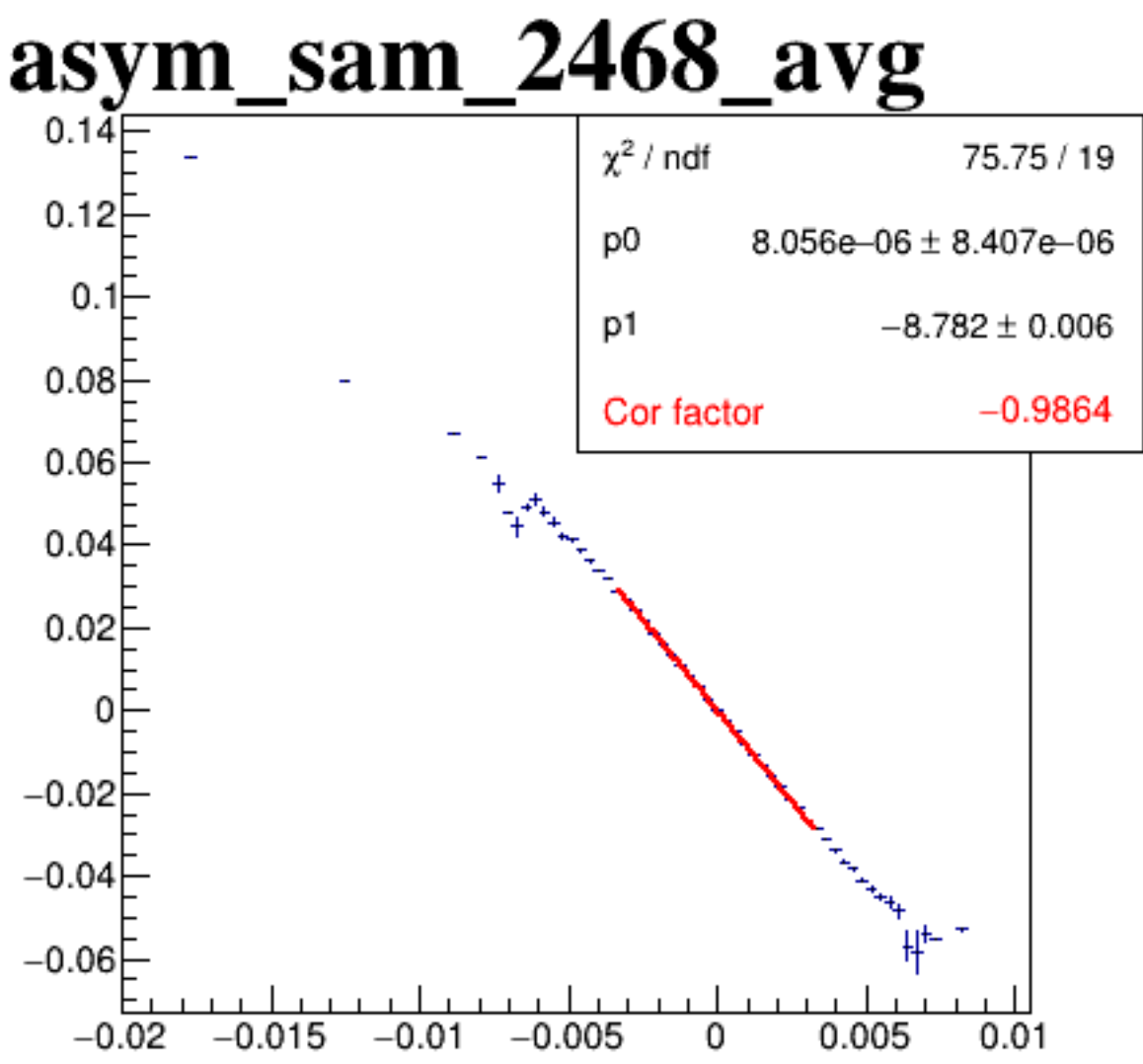
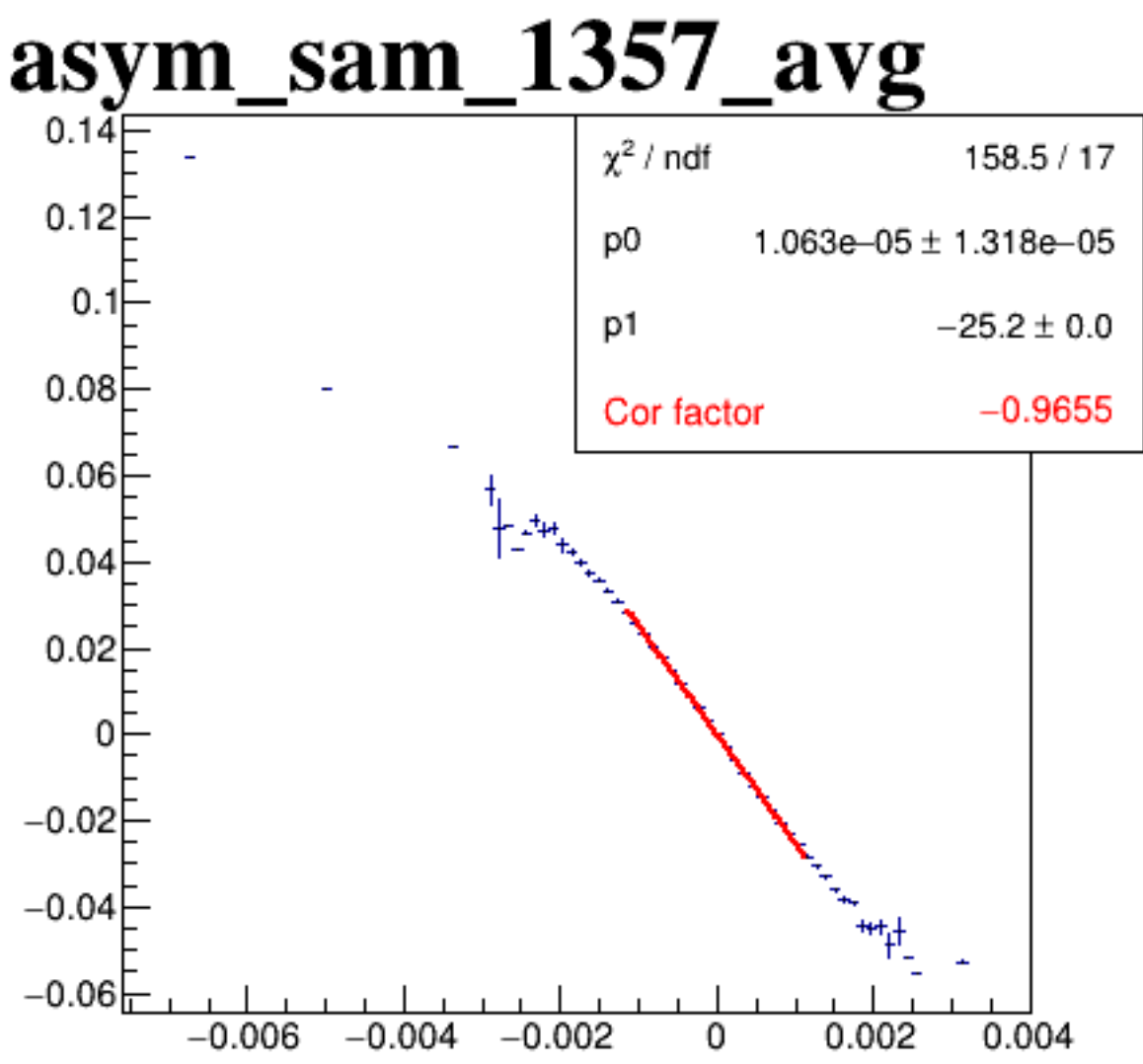
diff_bpm4aX



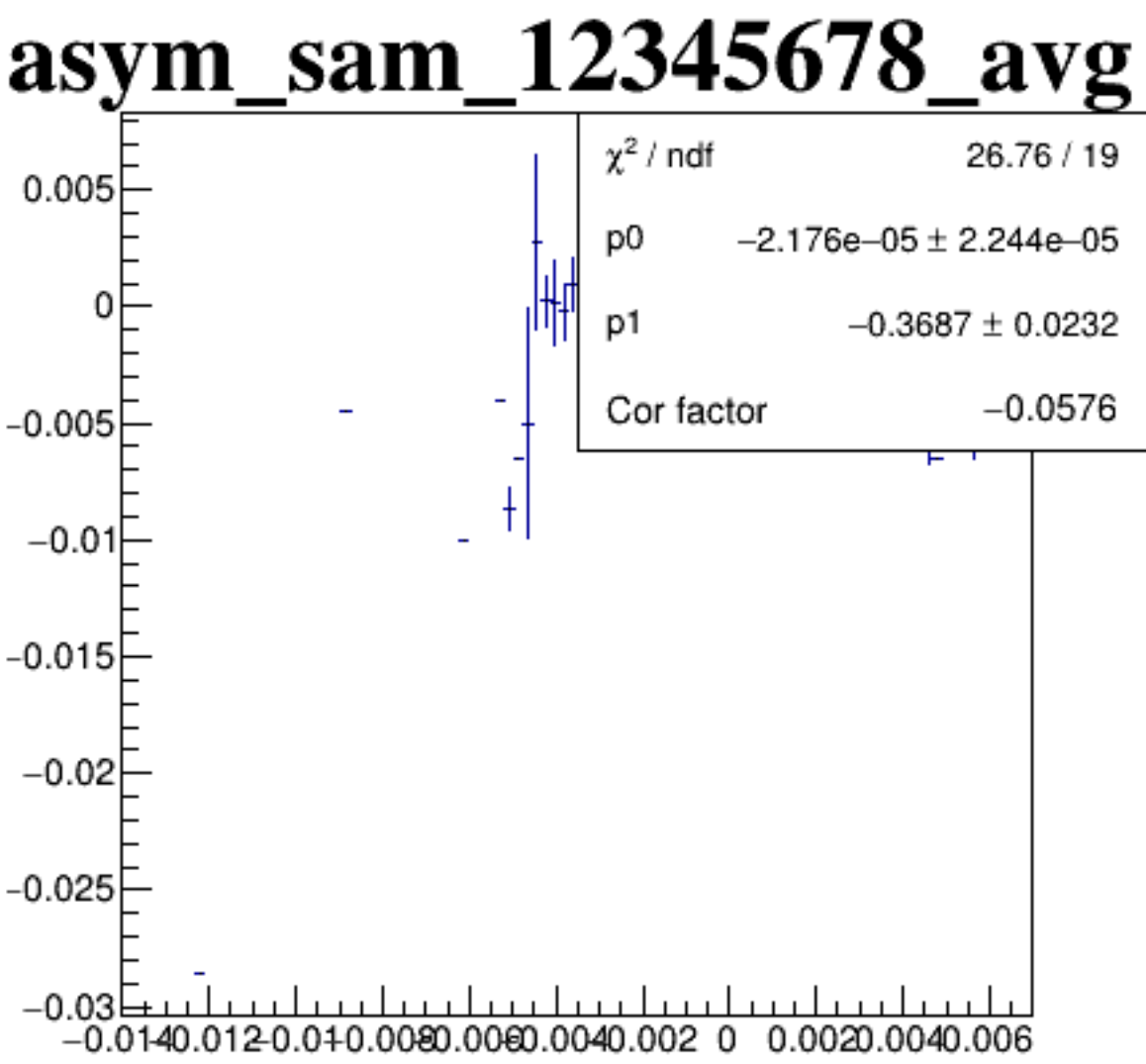
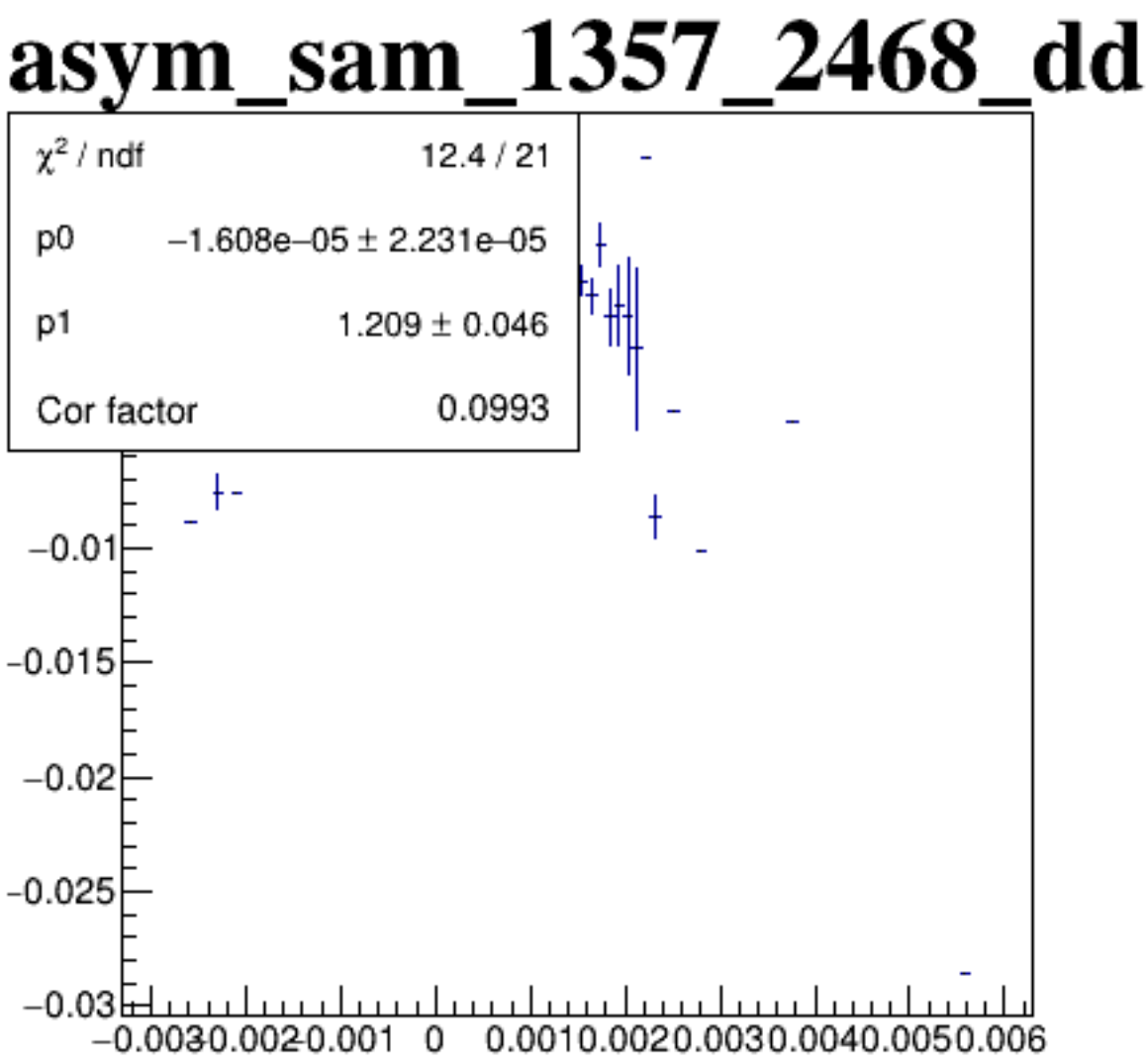
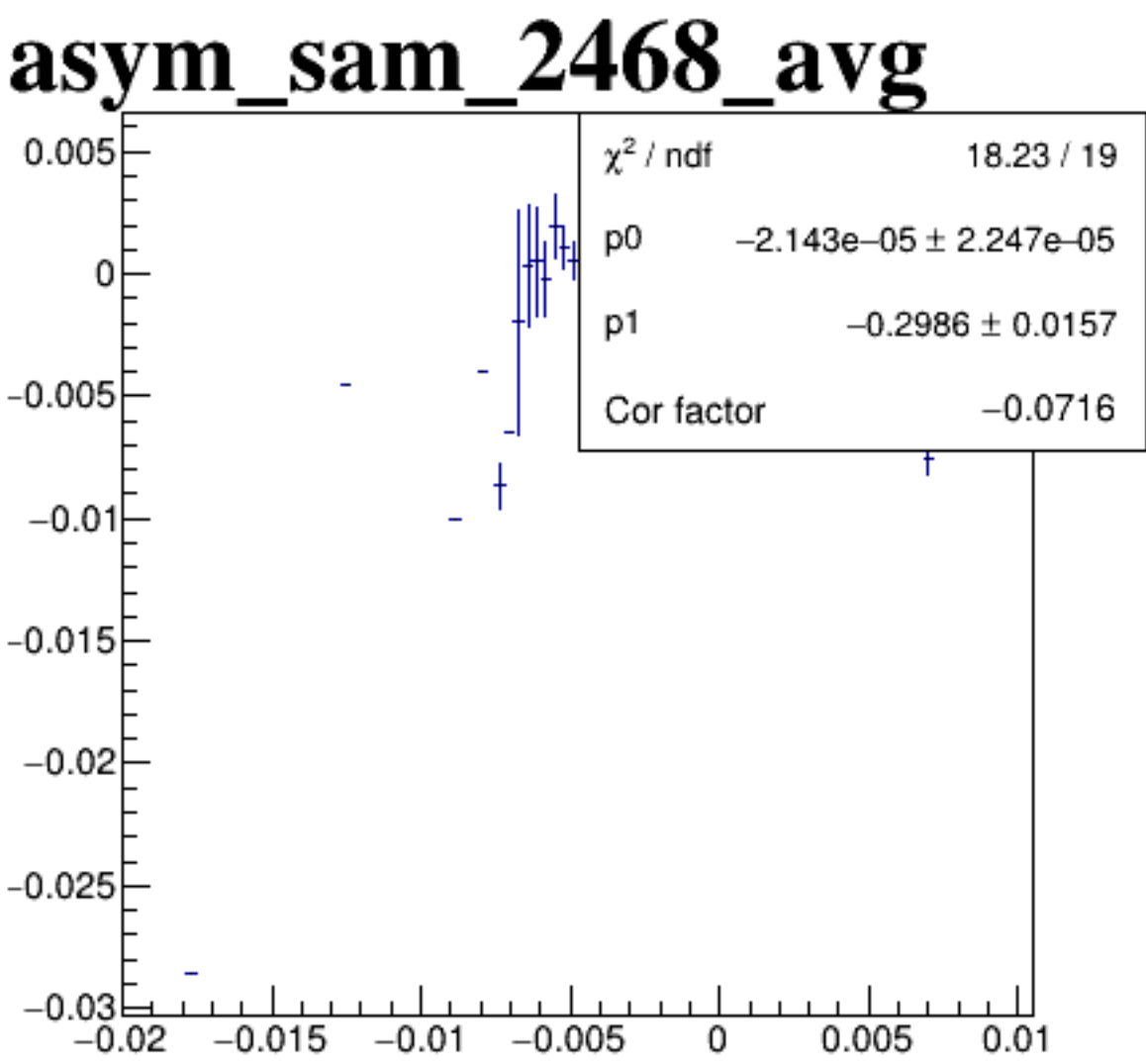
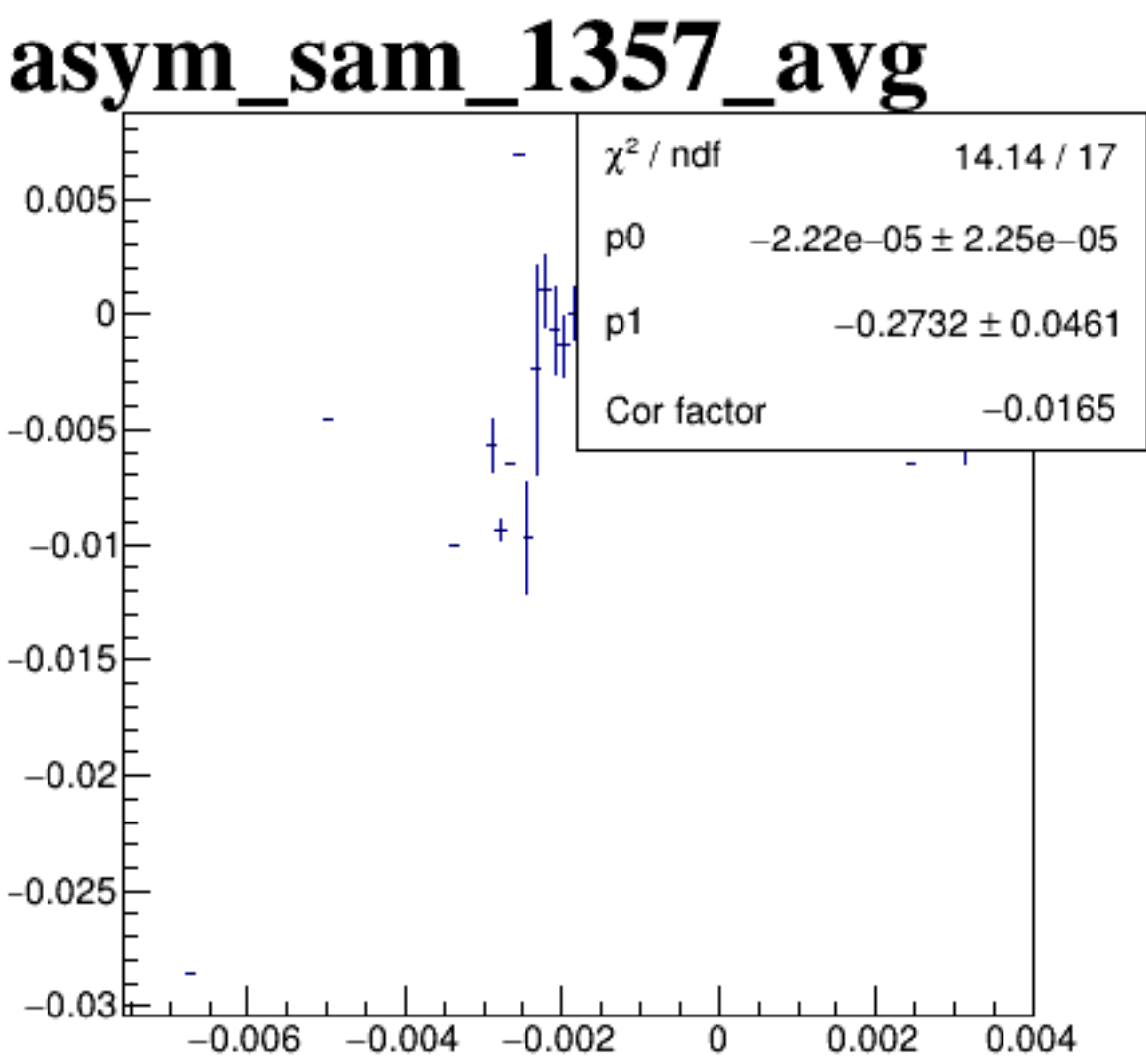
diff_bpm4aY



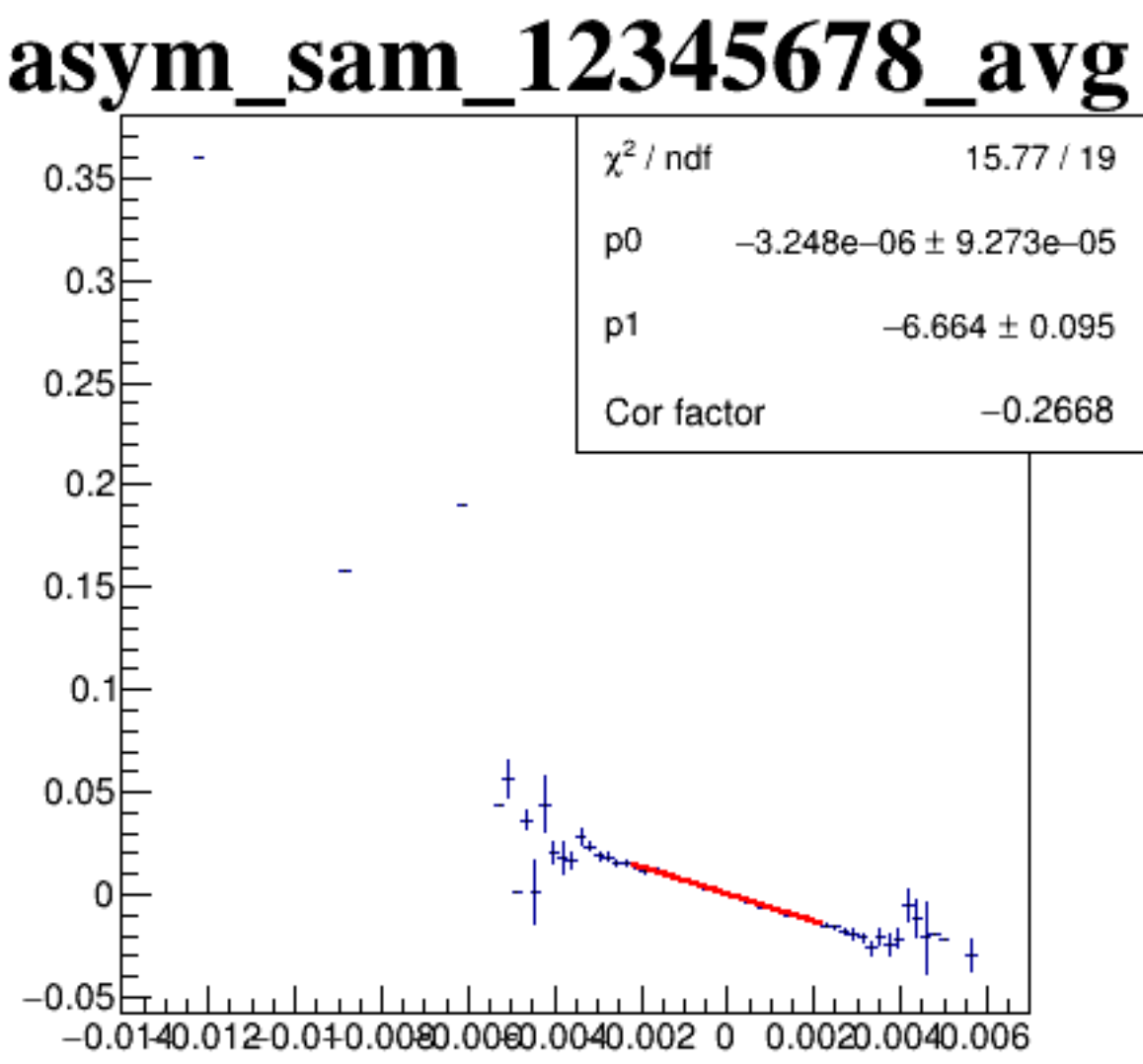
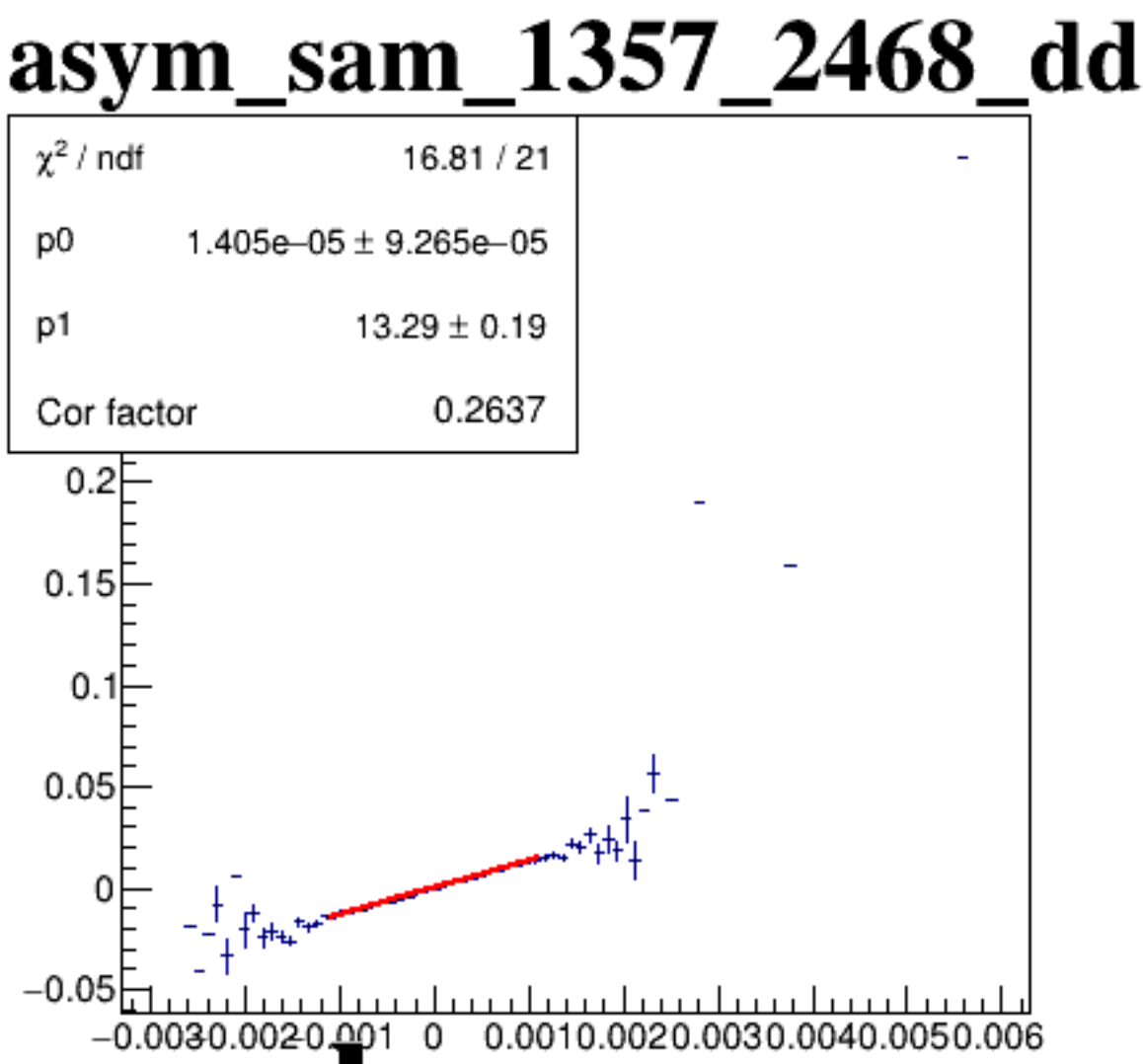
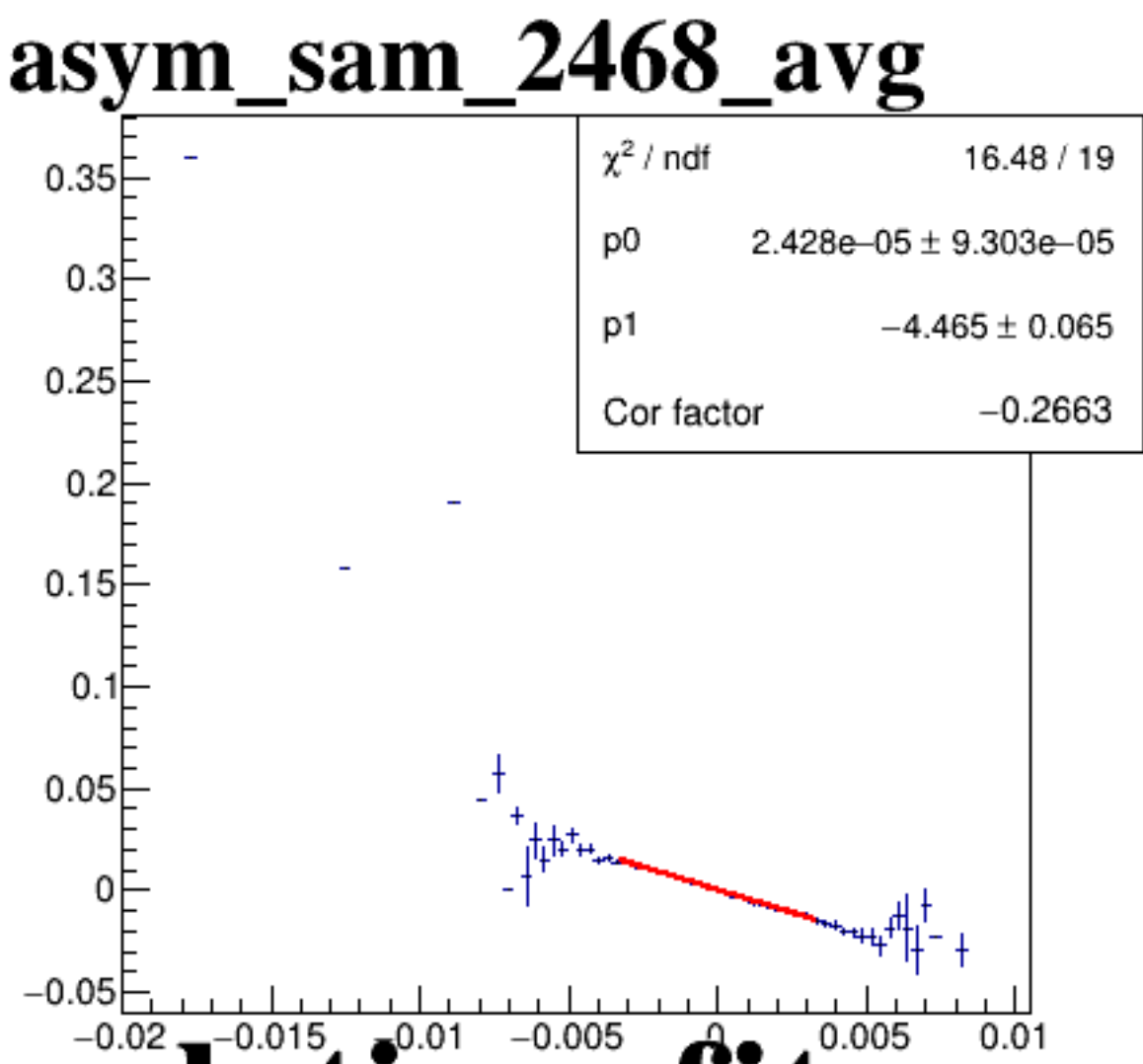
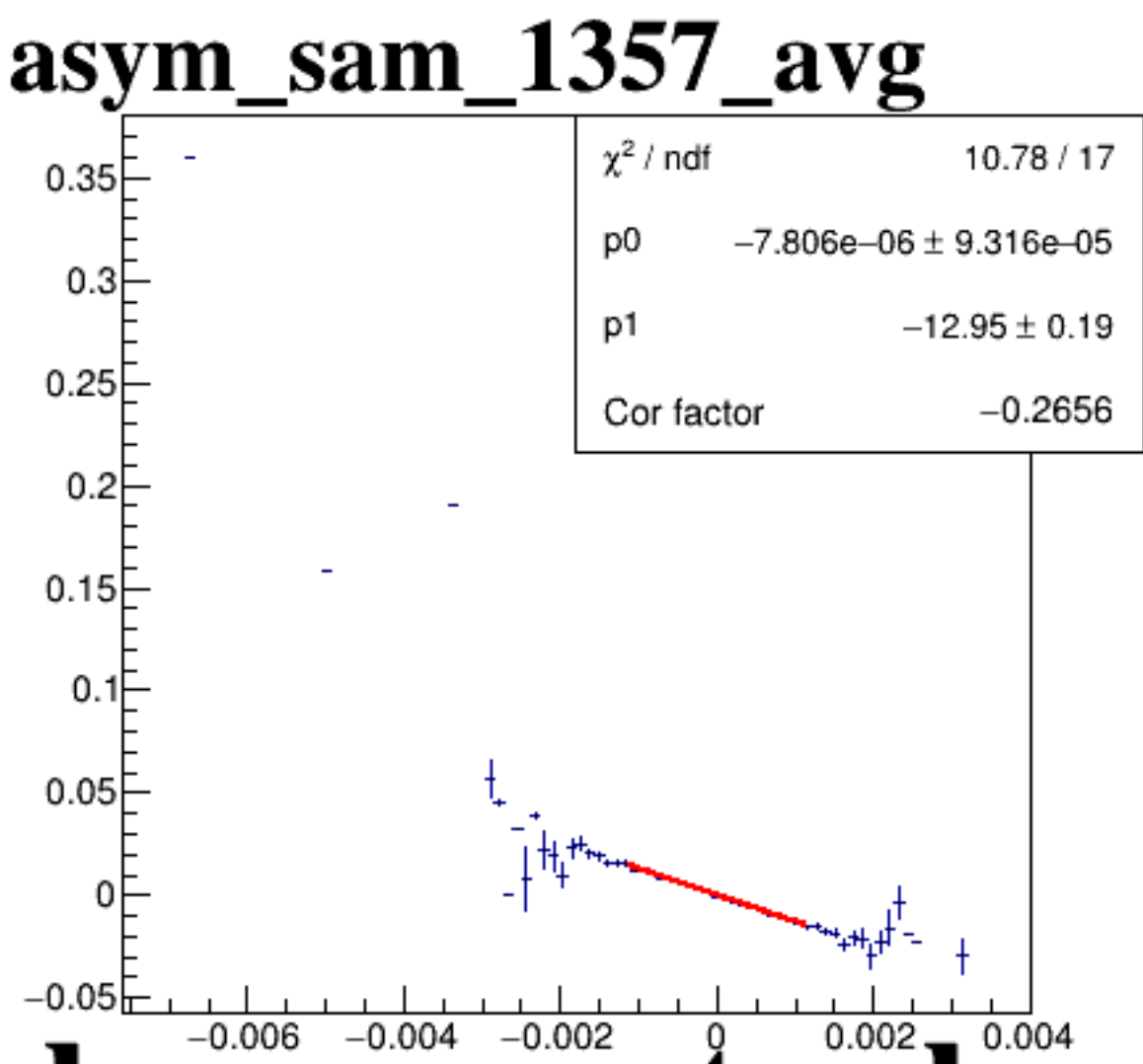
diff_bpm4eX



diff_bpm4eY



diff_bpm12X





A scatter plot showing the relationship between the difference in asymmetry, $\text{asym_sam_1357_2468_d}$ (y-axis), and the difference in the product of asymmetry, $\text{mulc.asym_sam_1357_2468_dd}$ (x-axis). The y-axis ranges from -0.08 to 0.14, and the x-axis ranges from -0.003 to 0.006. The data points form a dense, elongated cloud along a diagonal line, indicating a strong positive correlation between the two variables.

asym_sam_1357_avg

bpm1/x

bpm2/x

run5454_000_diff_bpm_mutual_correlation_scat_sam_combos.png