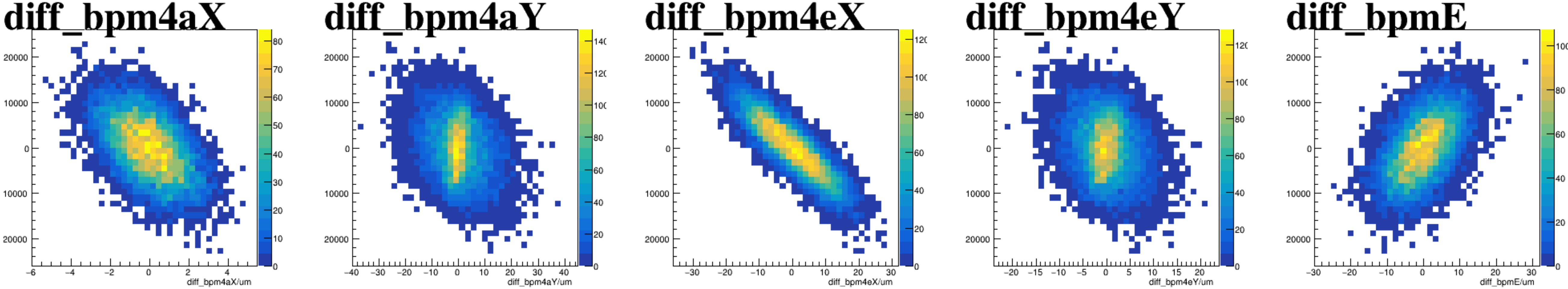
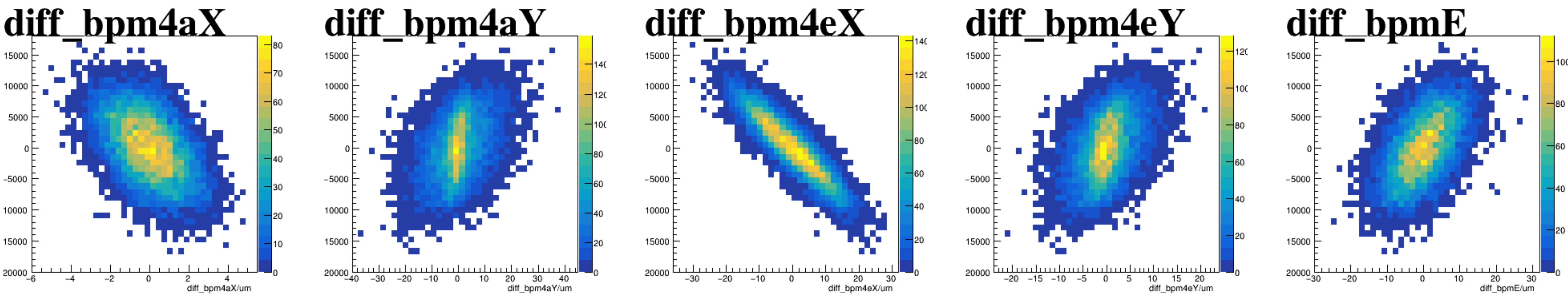


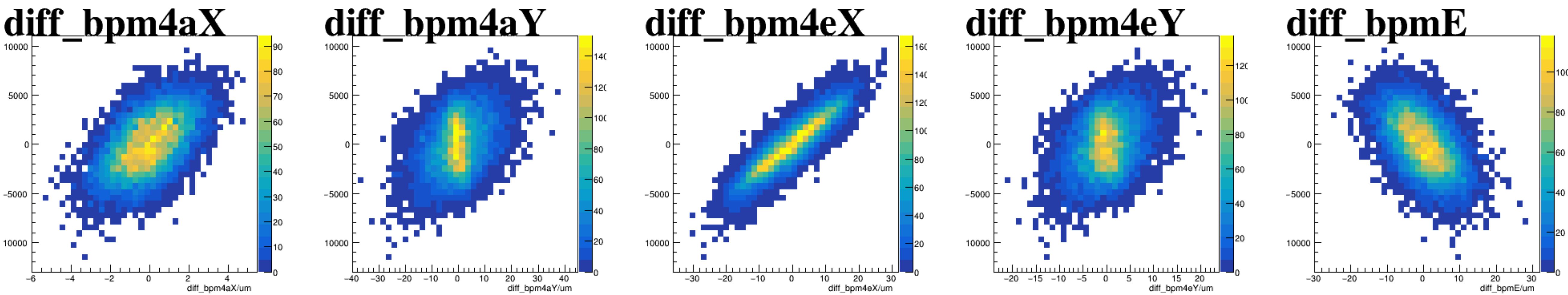
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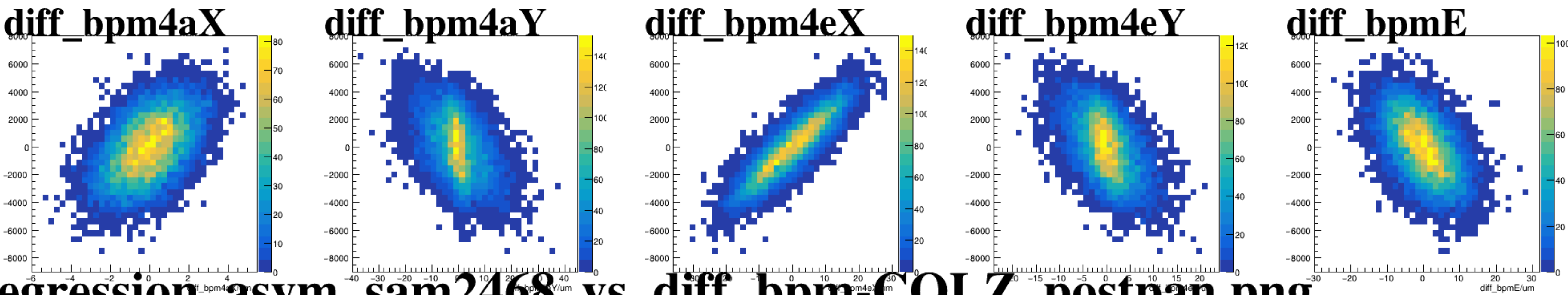
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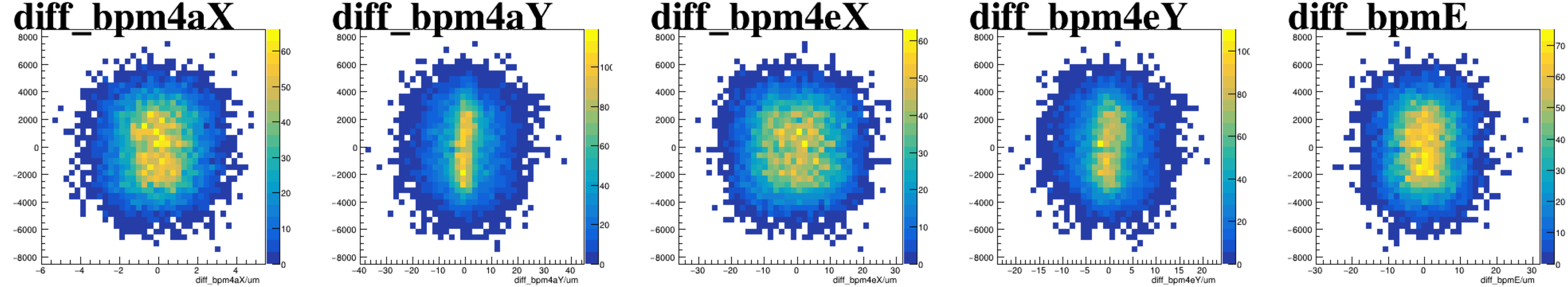
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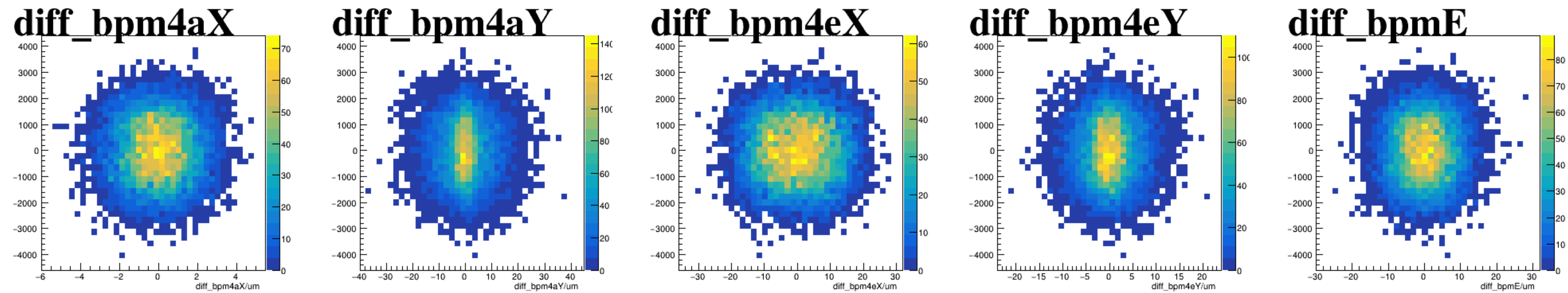
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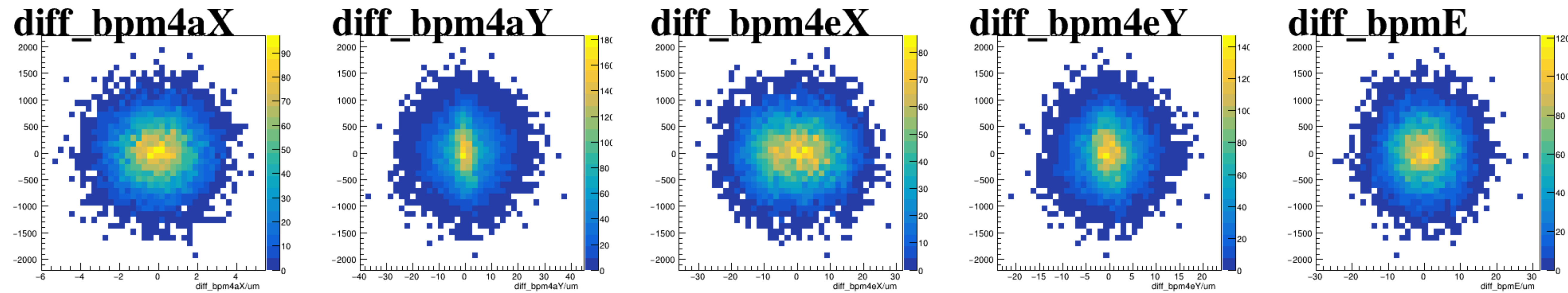
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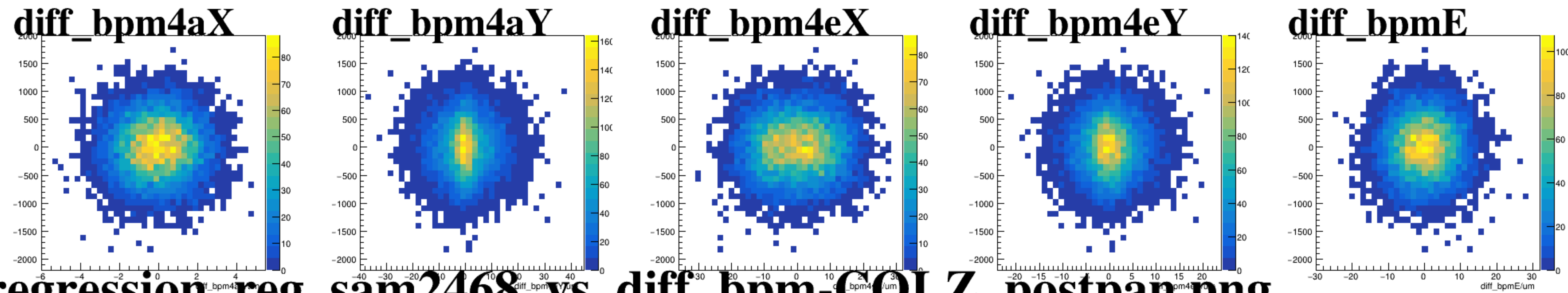
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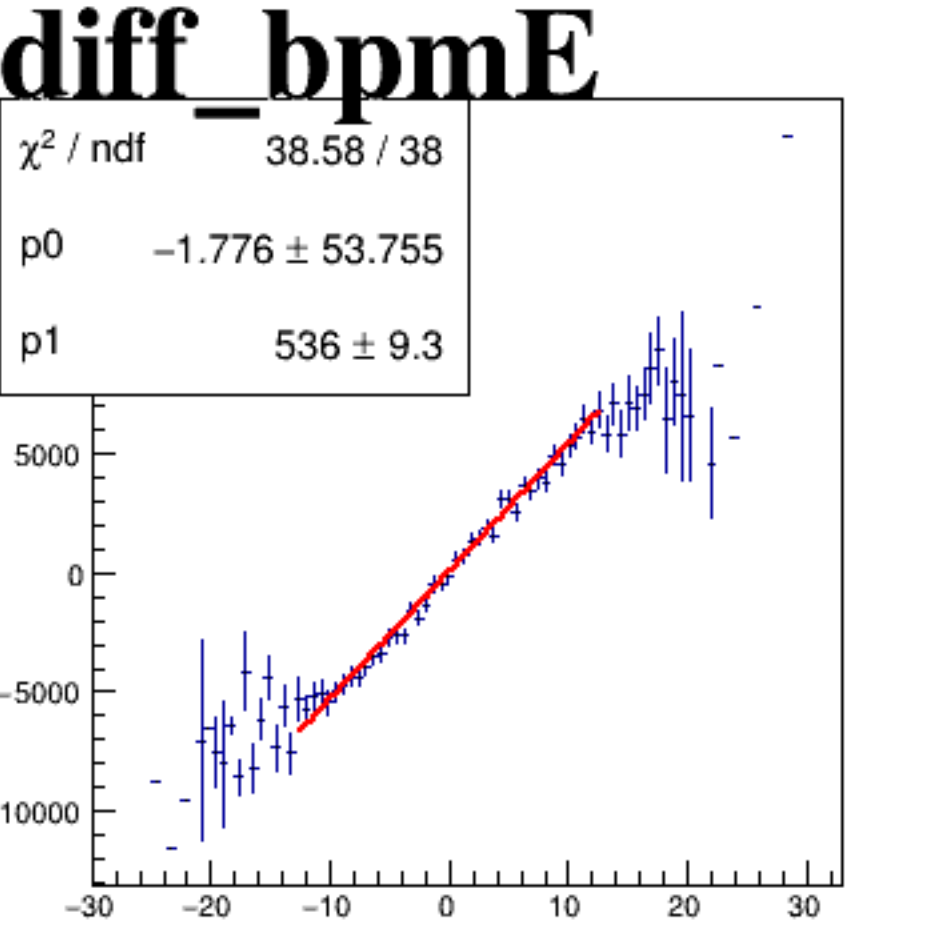
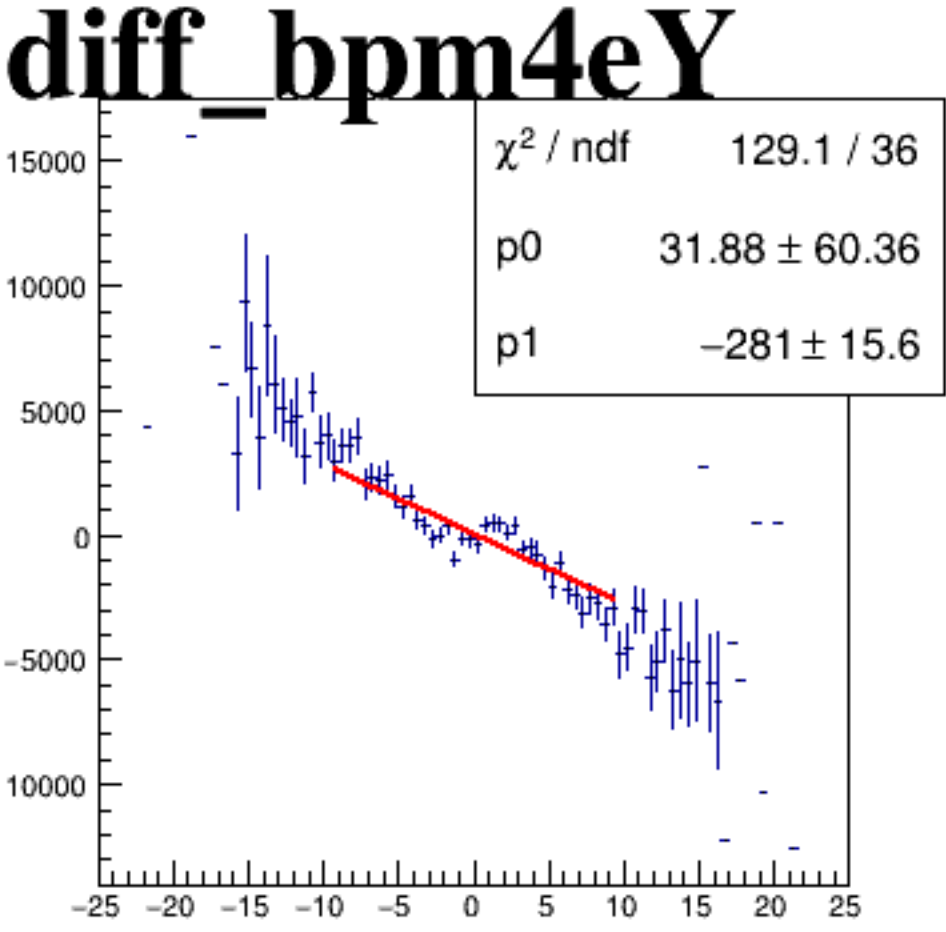
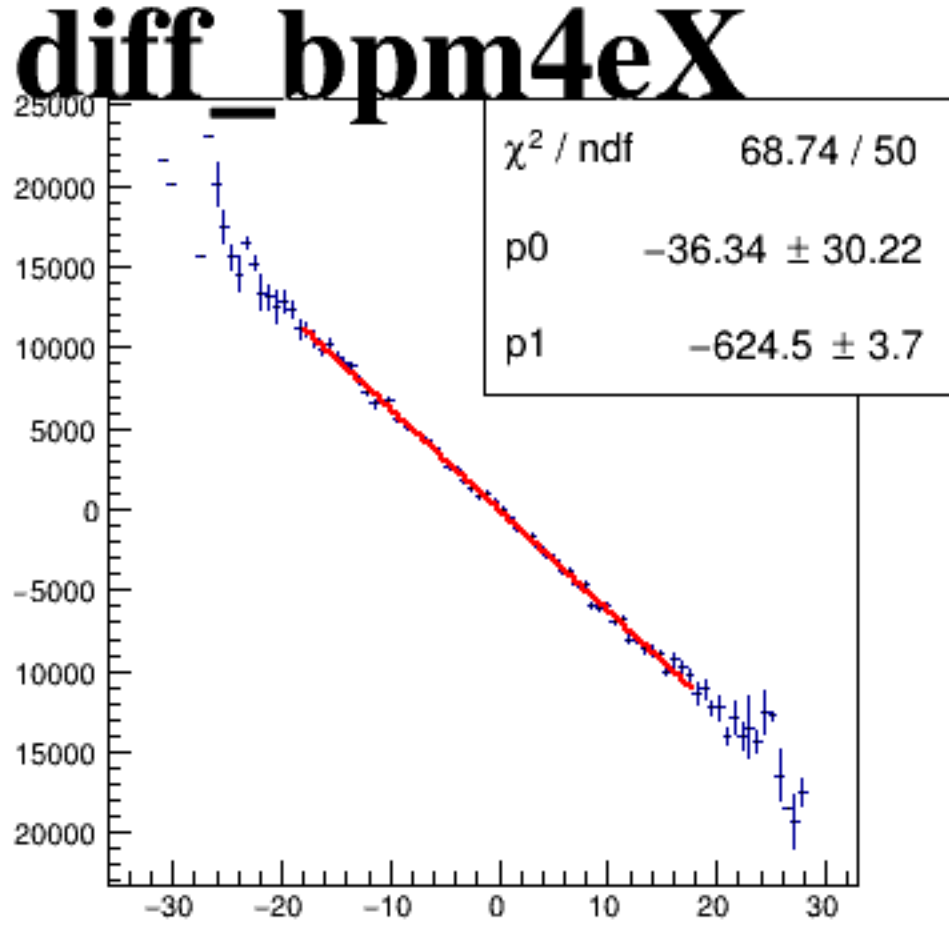
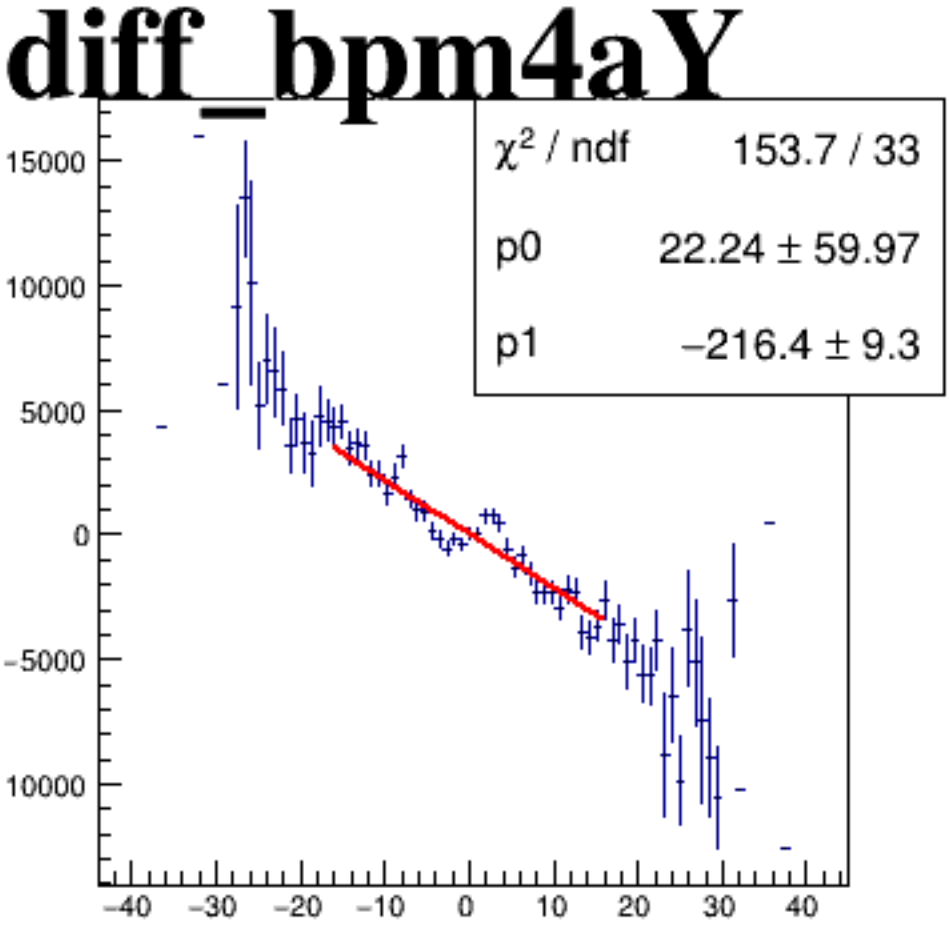
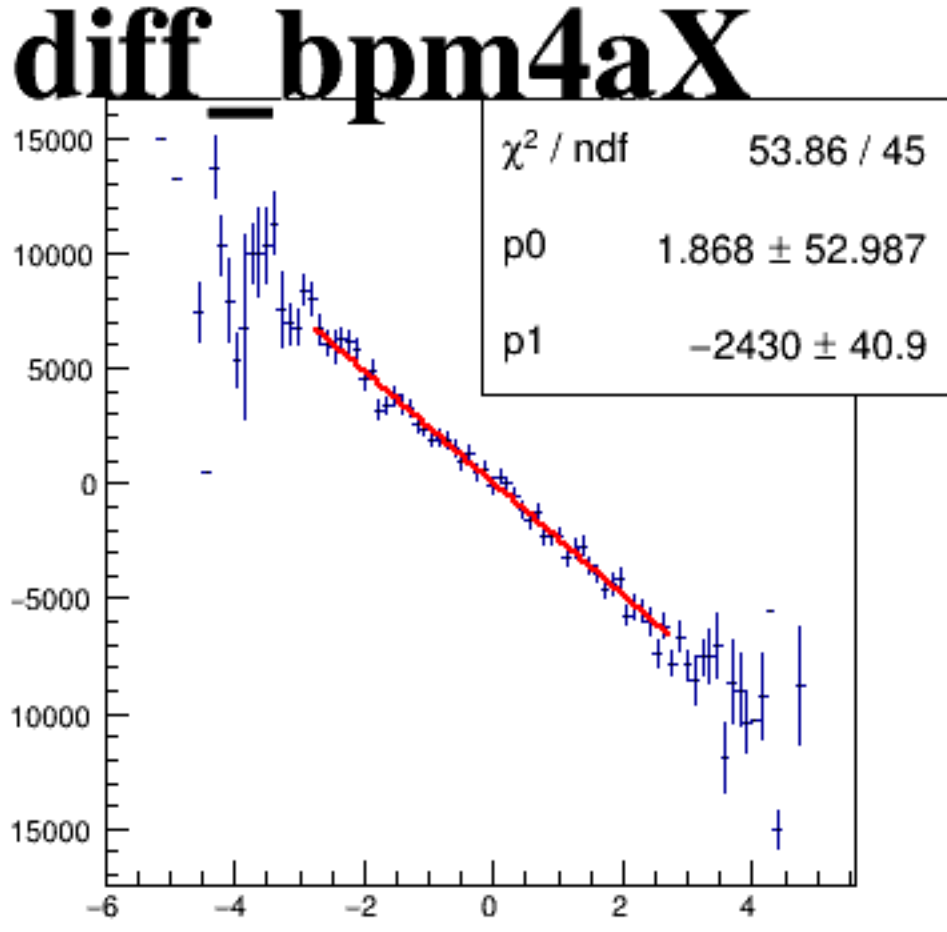
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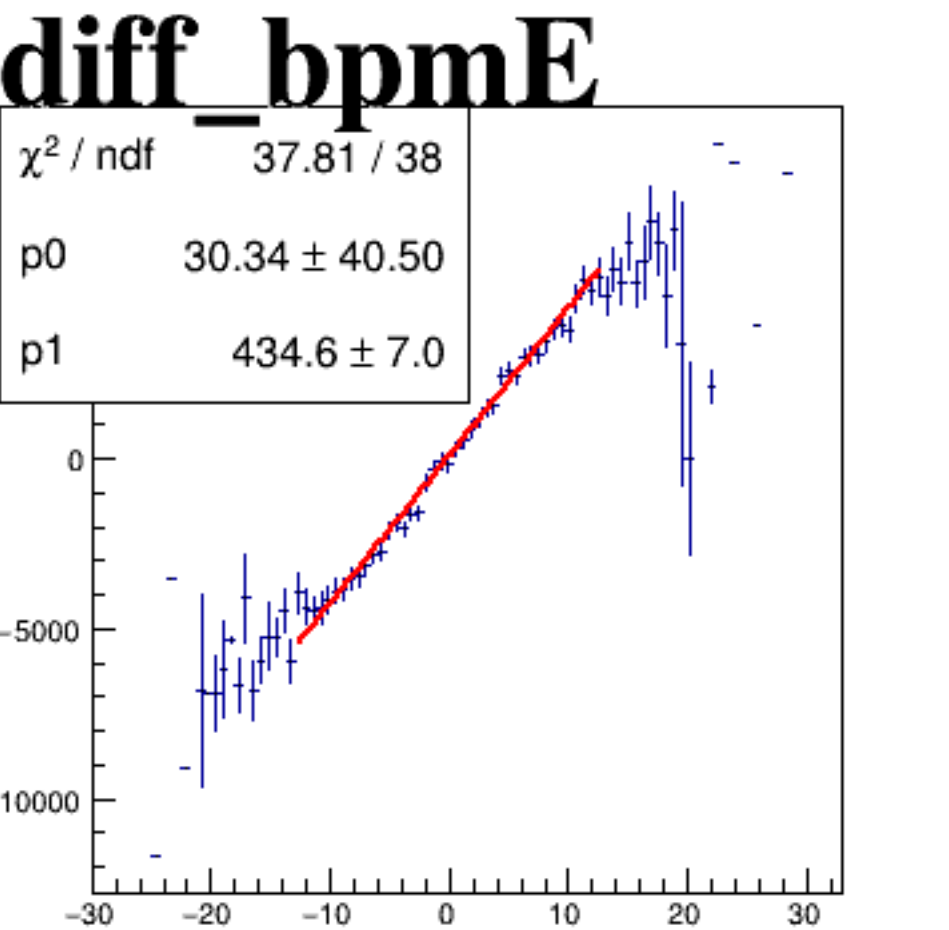
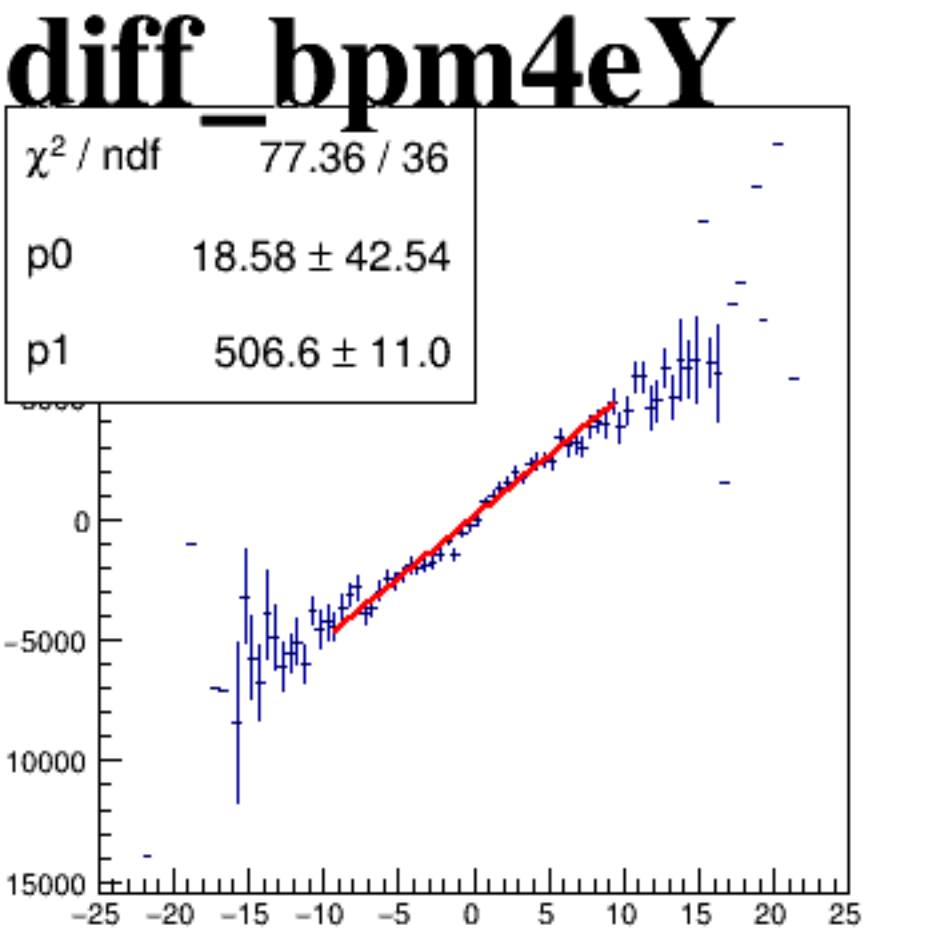
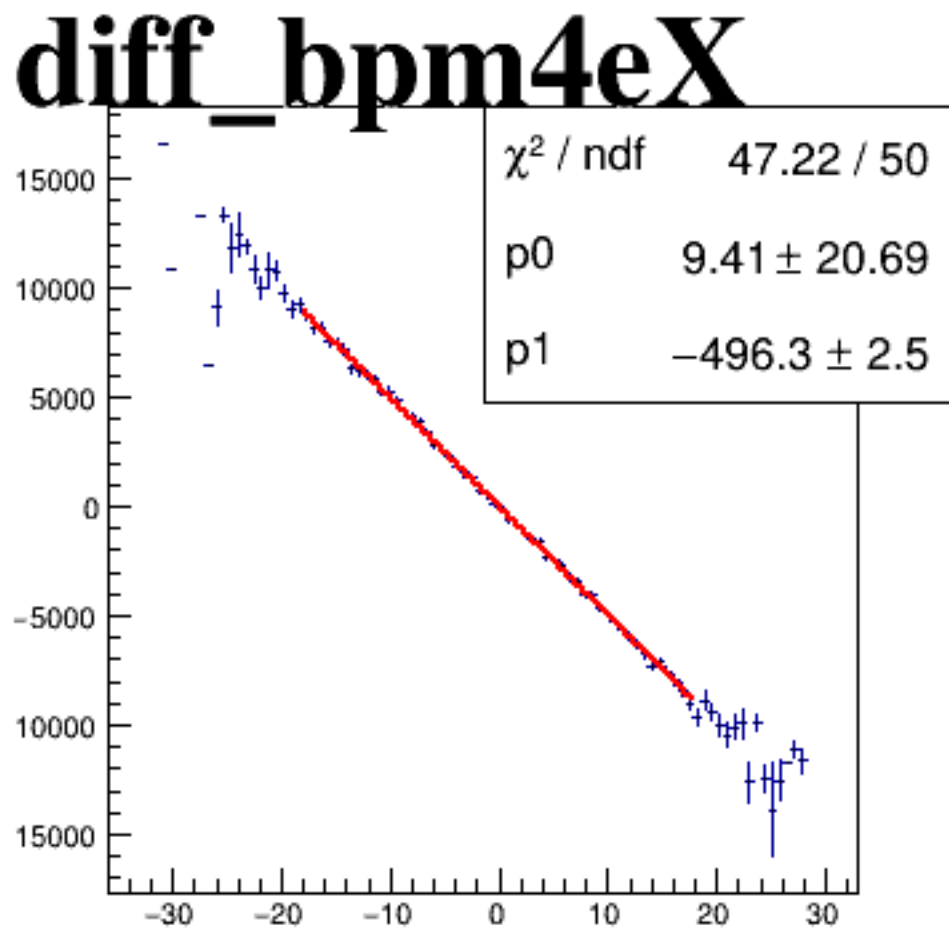
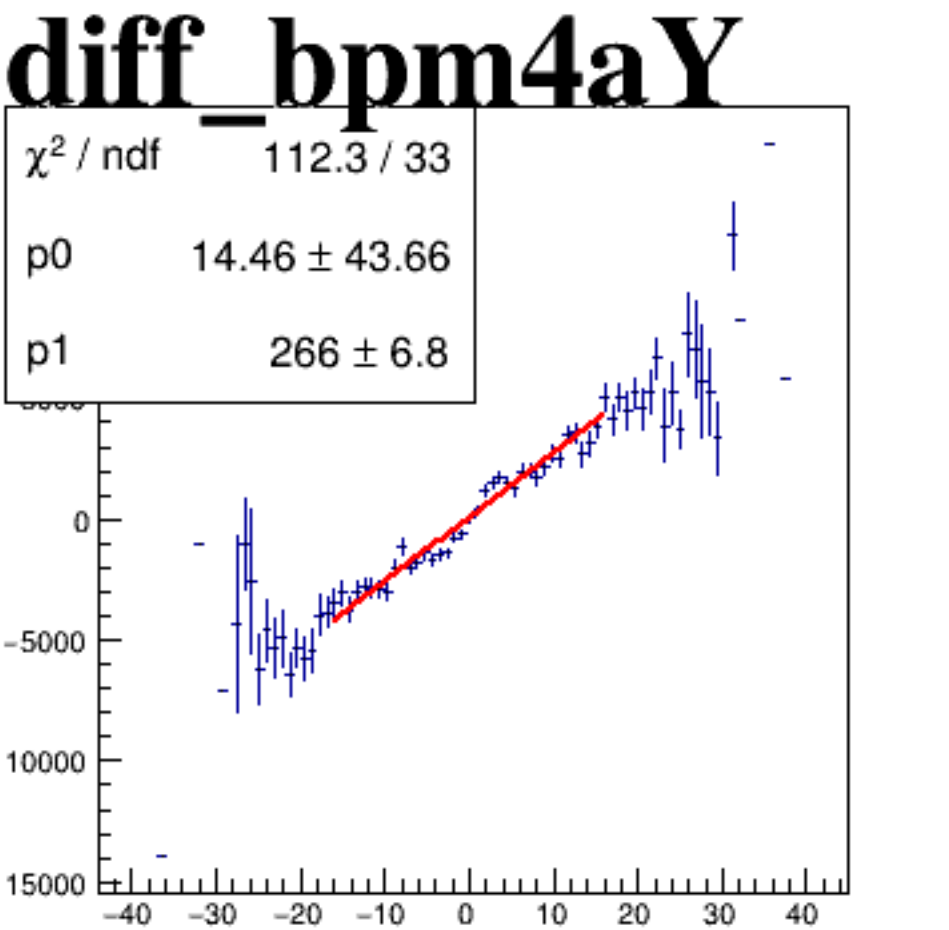
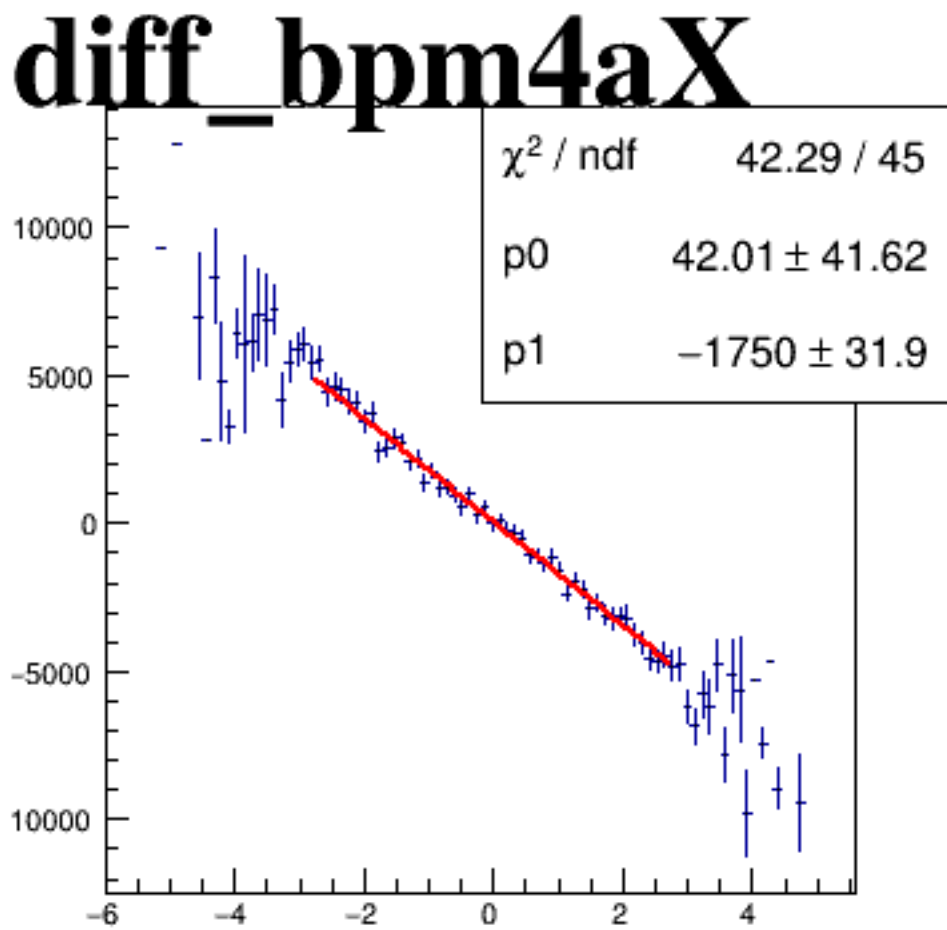
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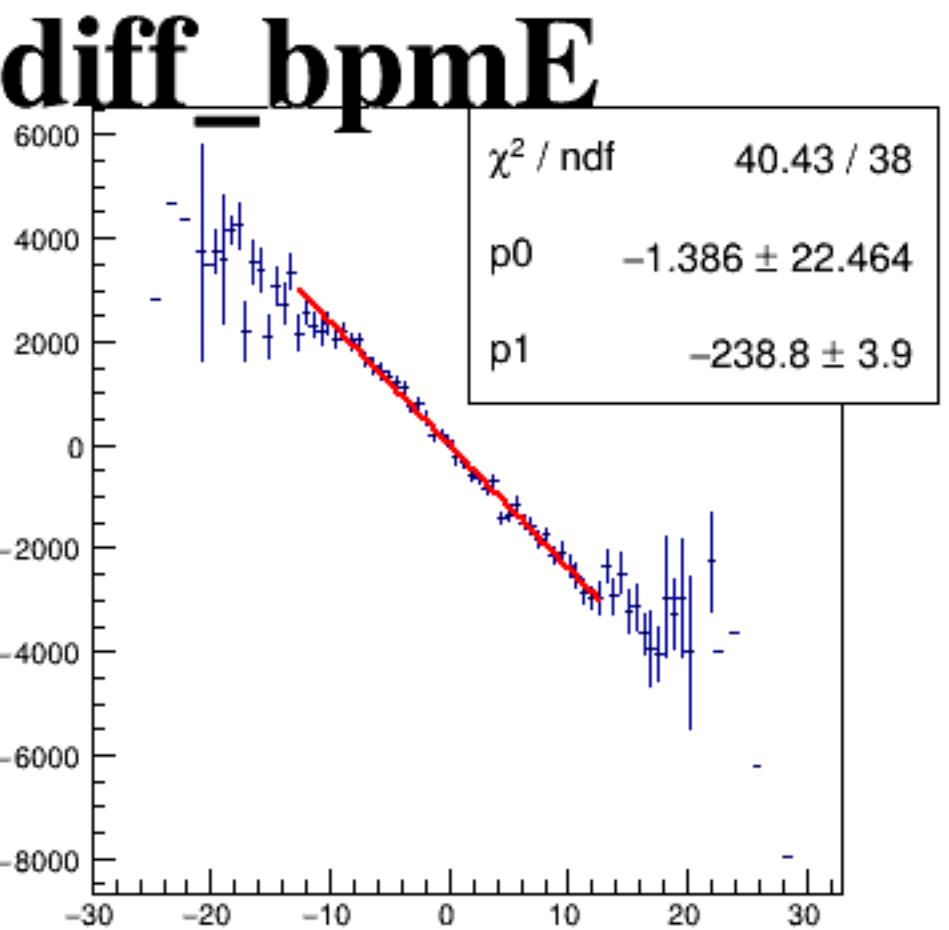
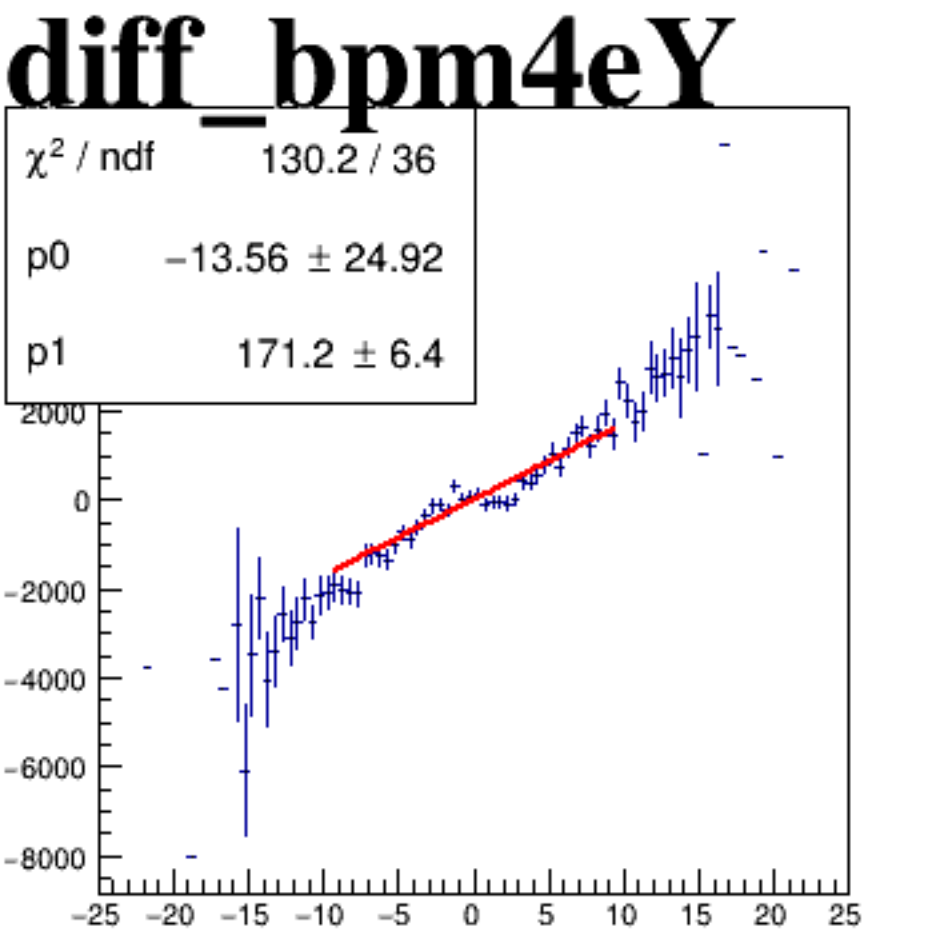
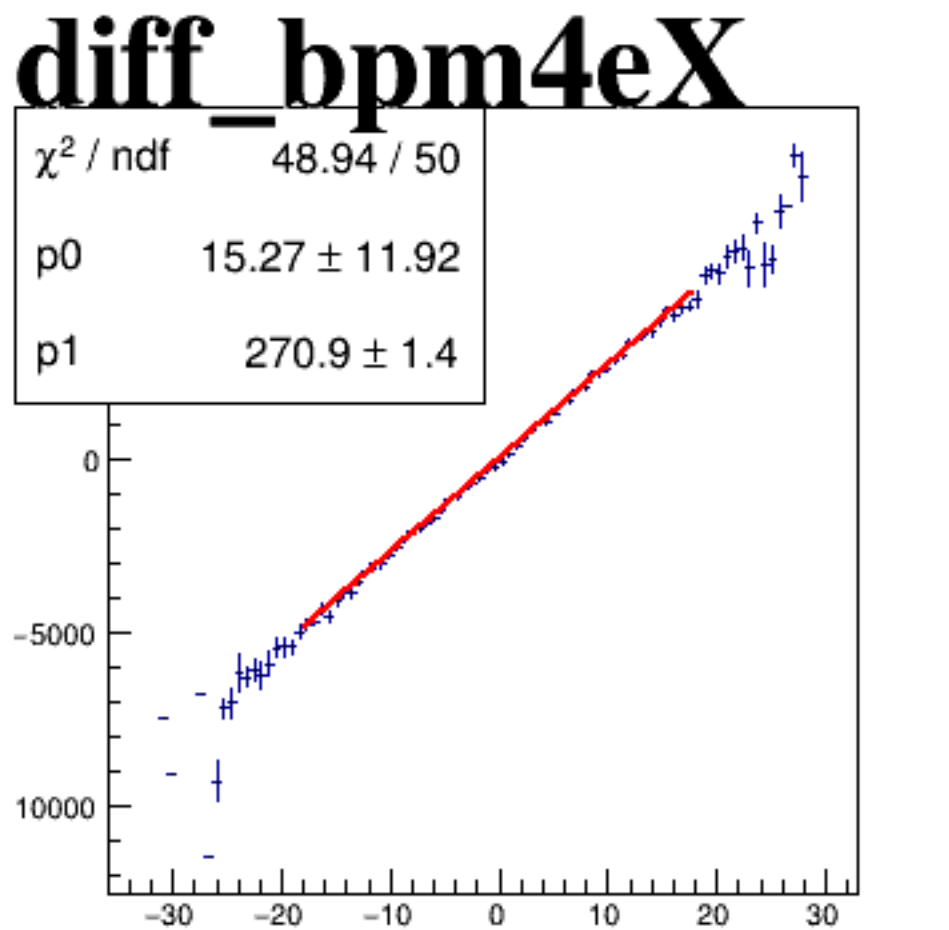
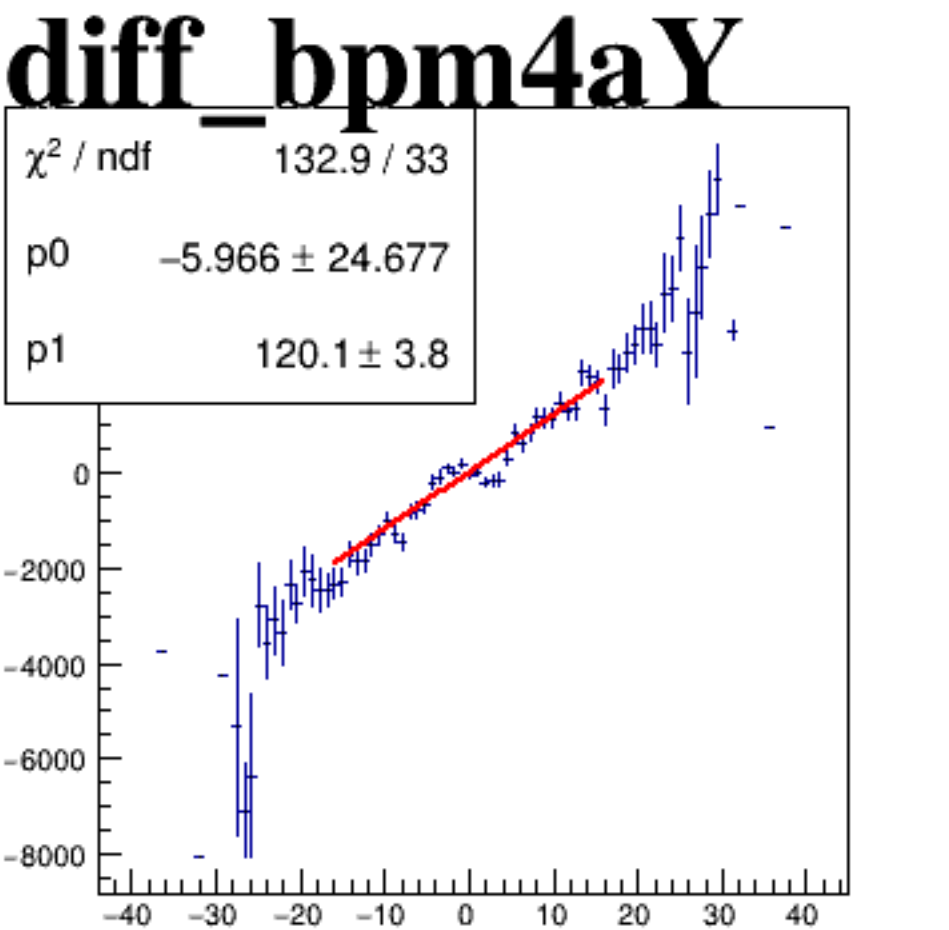
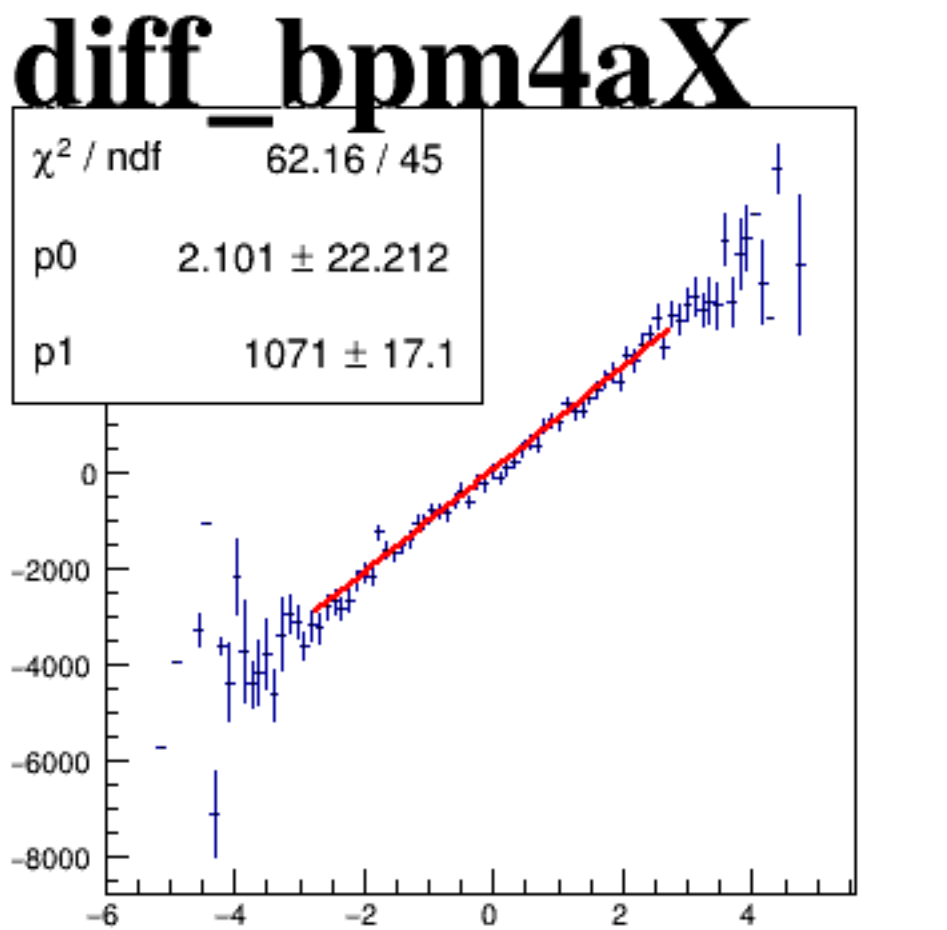
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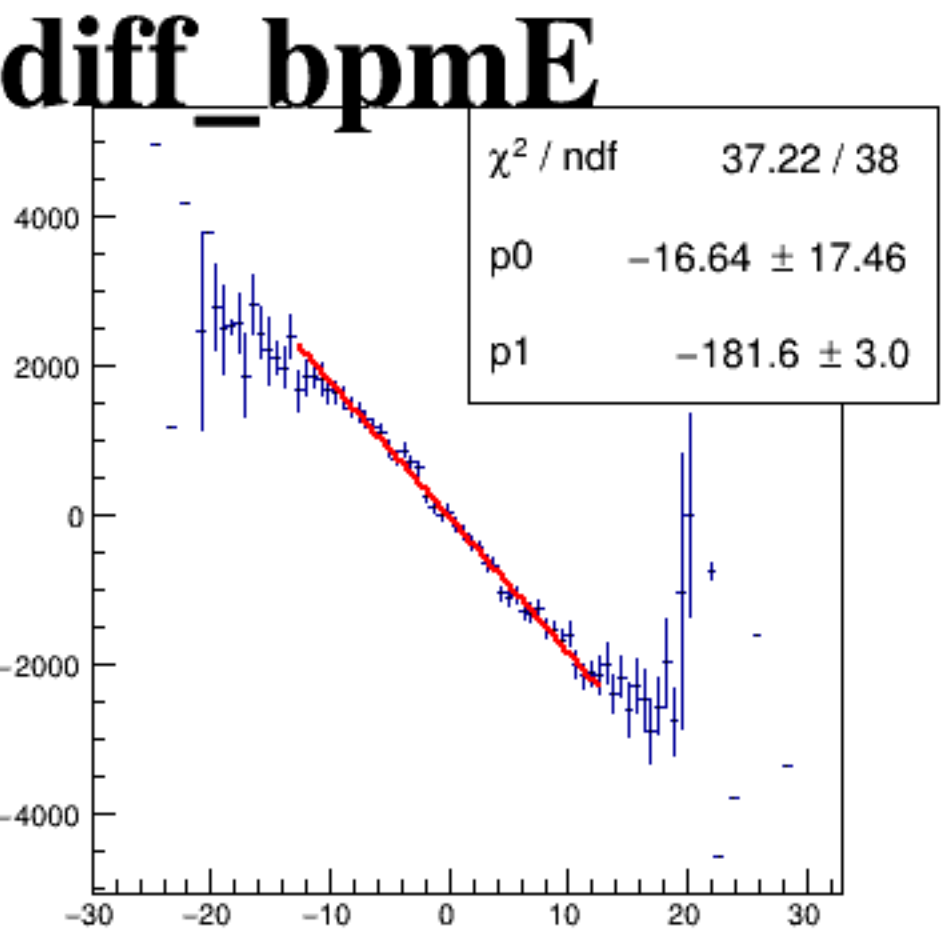
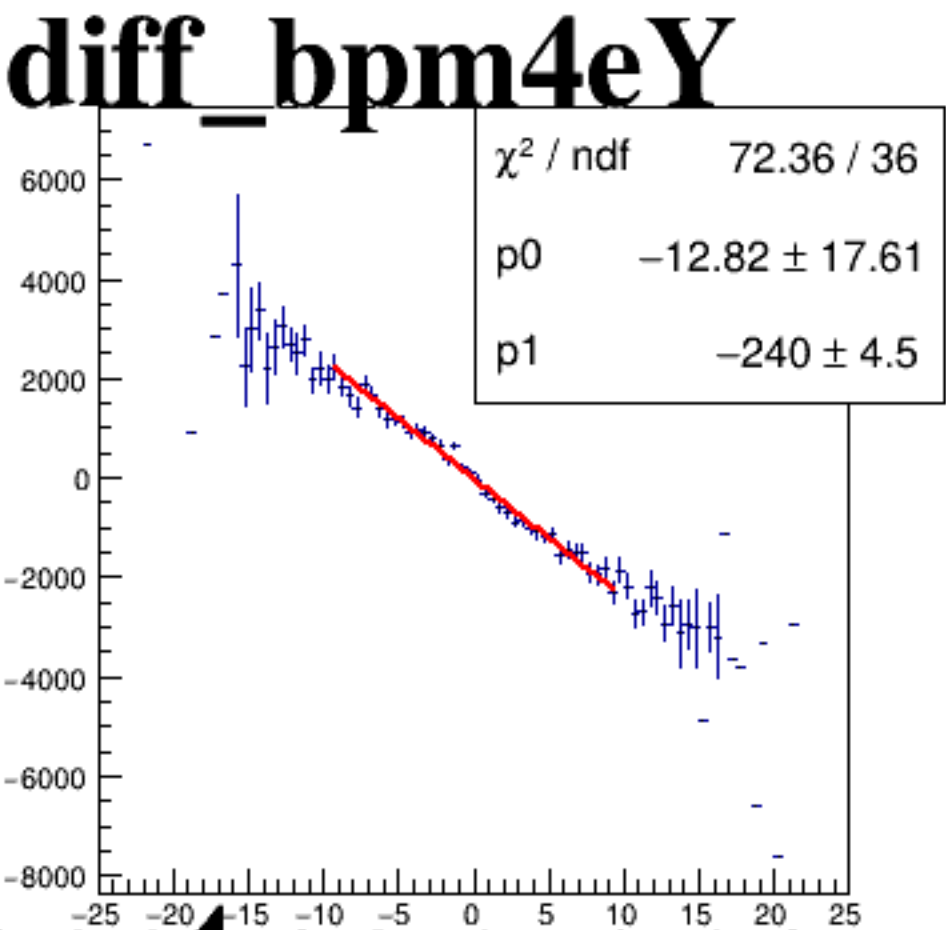
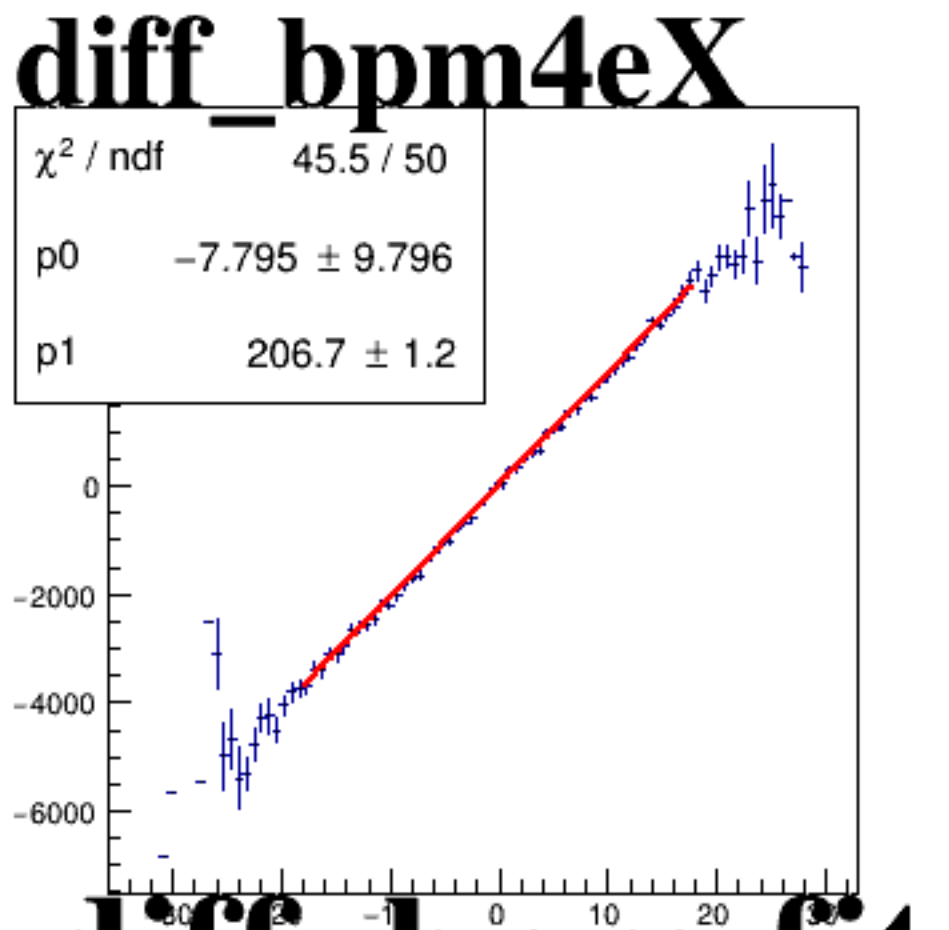
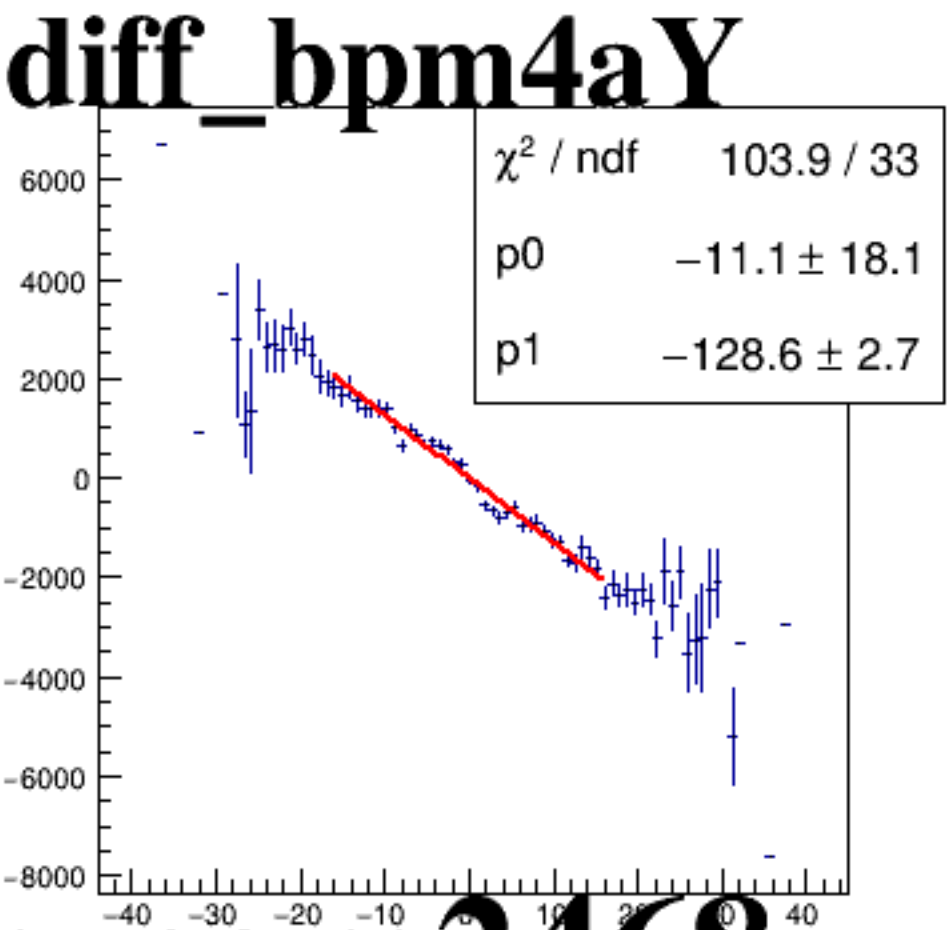
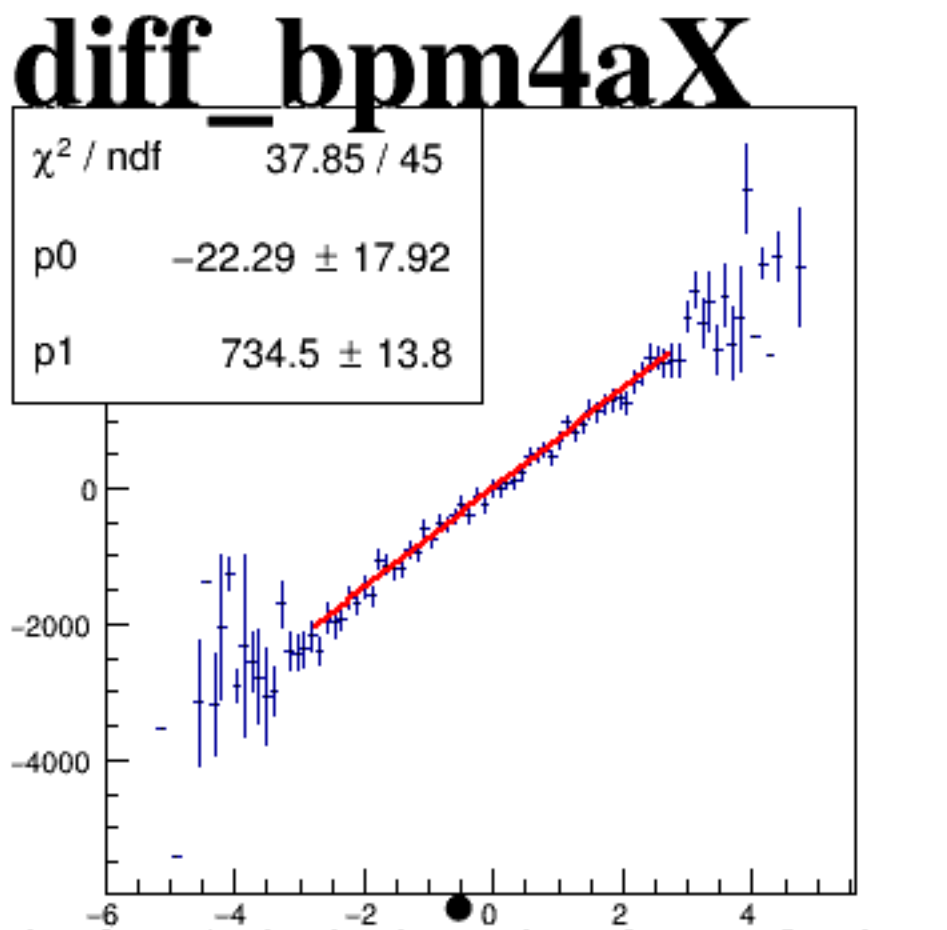
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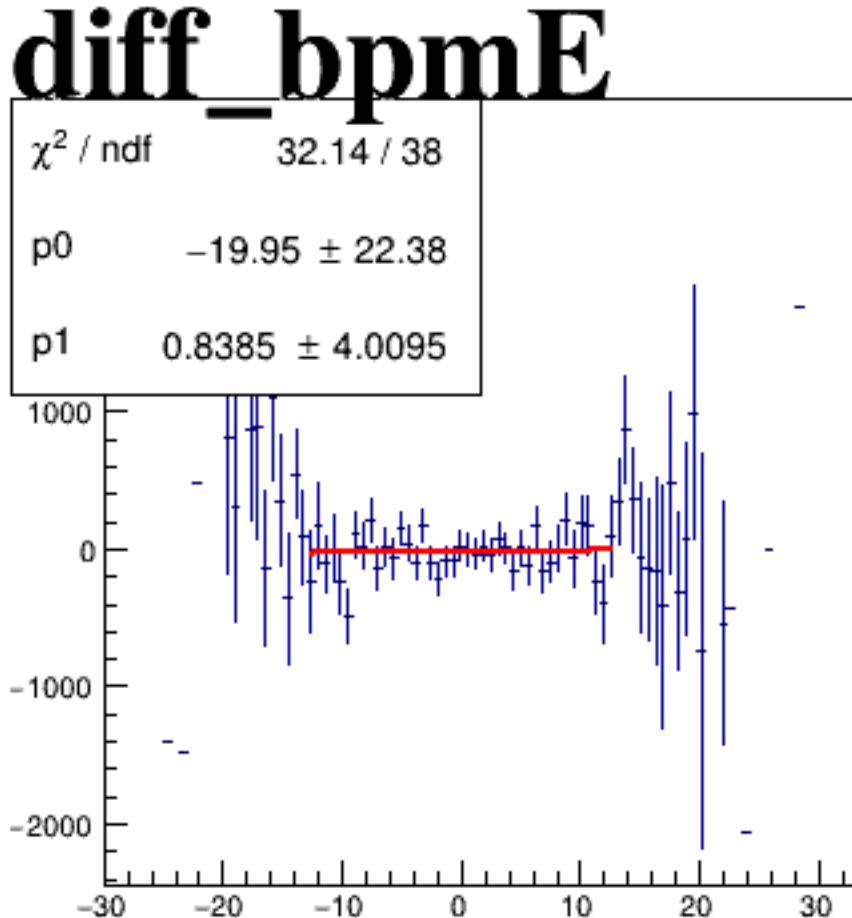
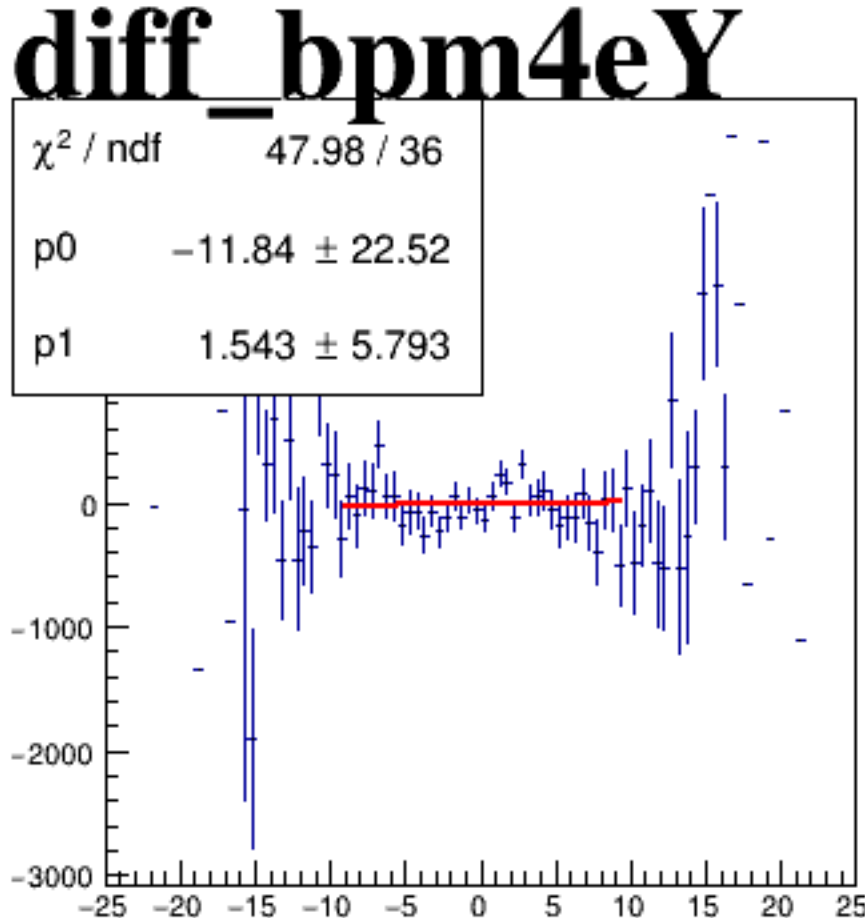
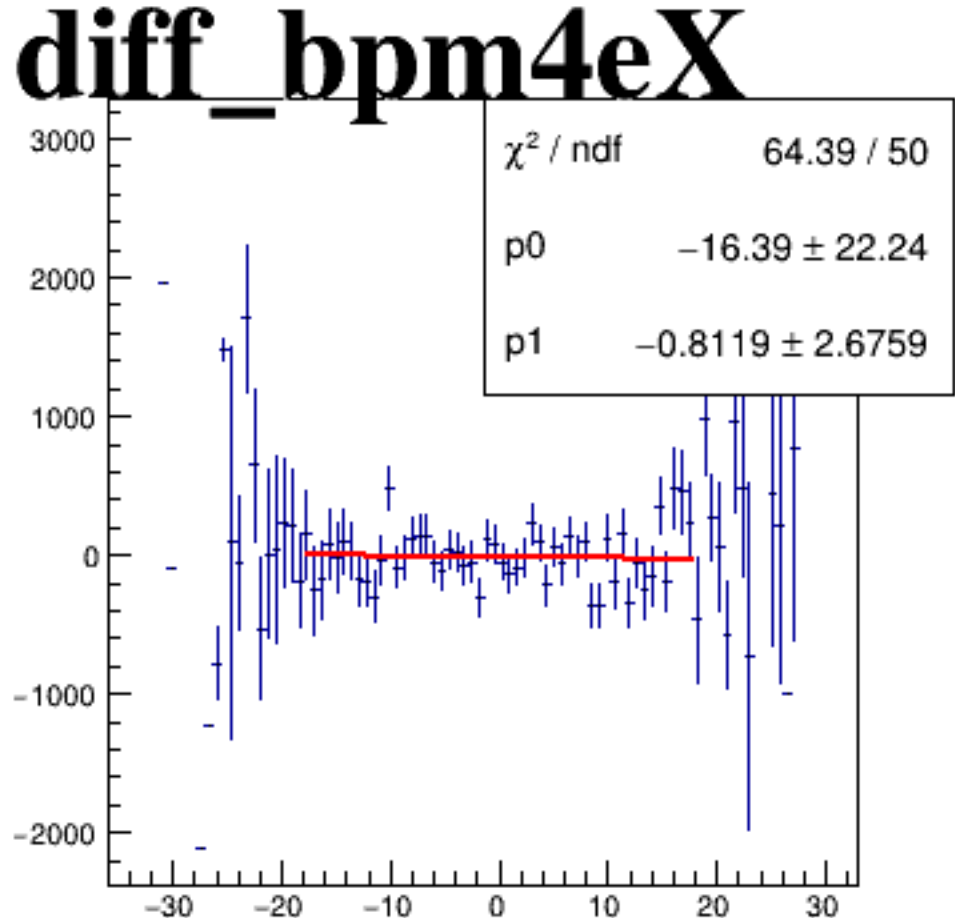
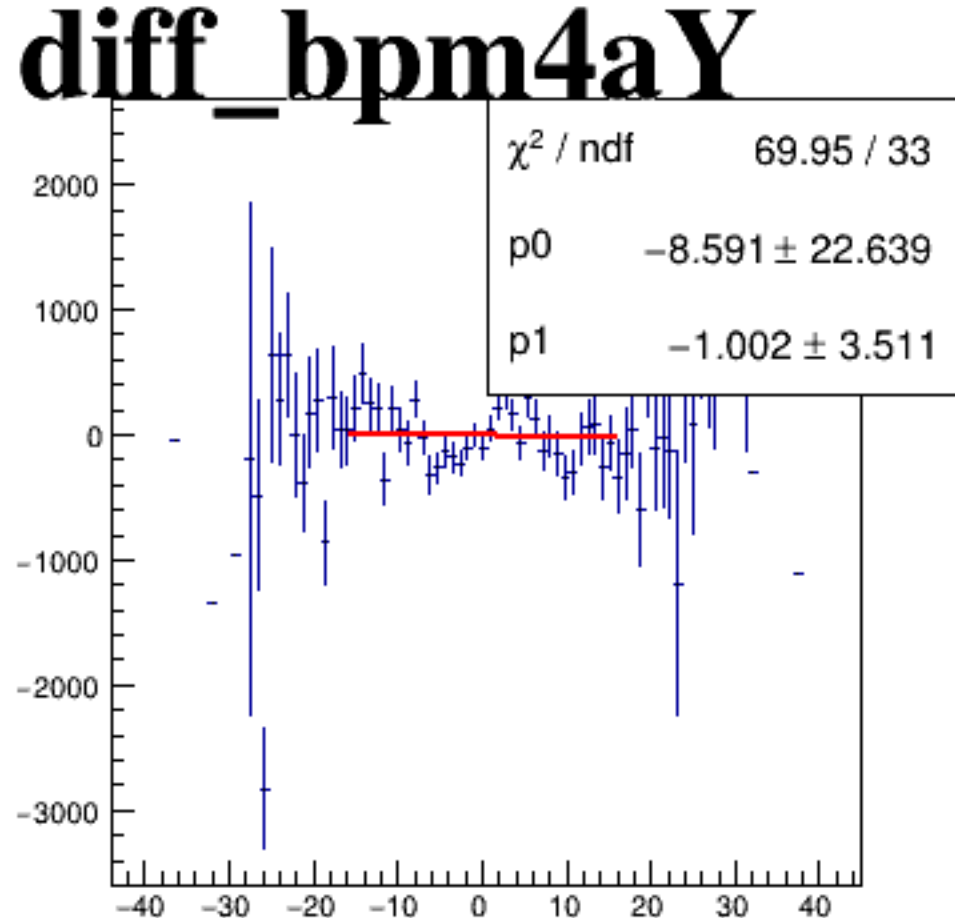
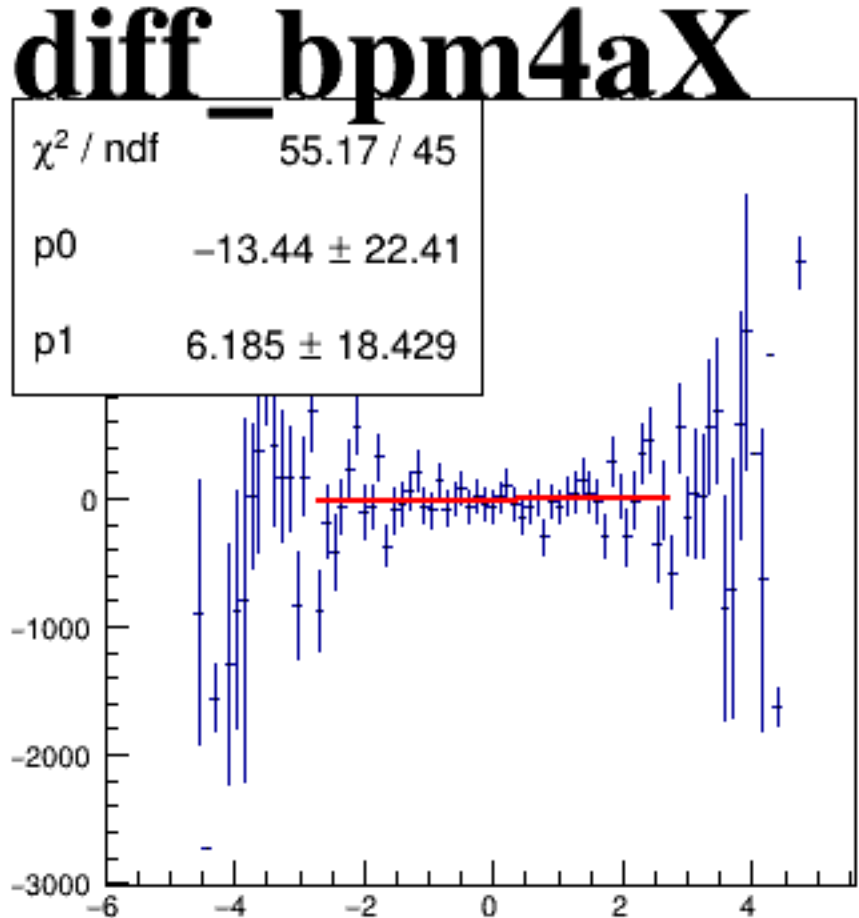
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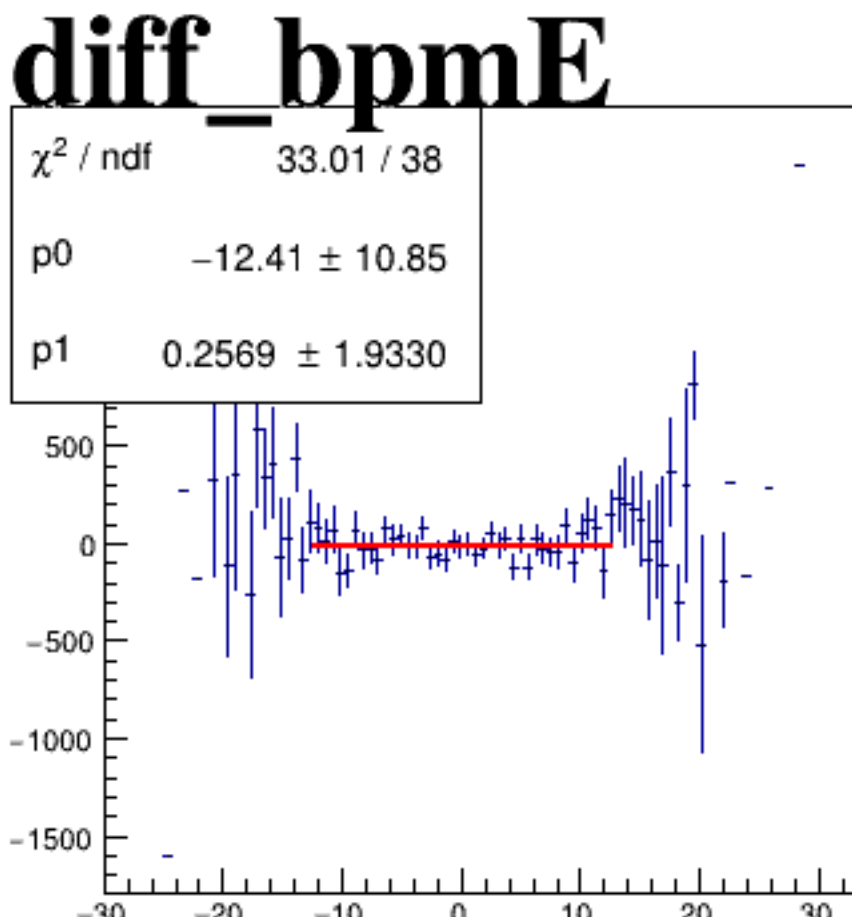
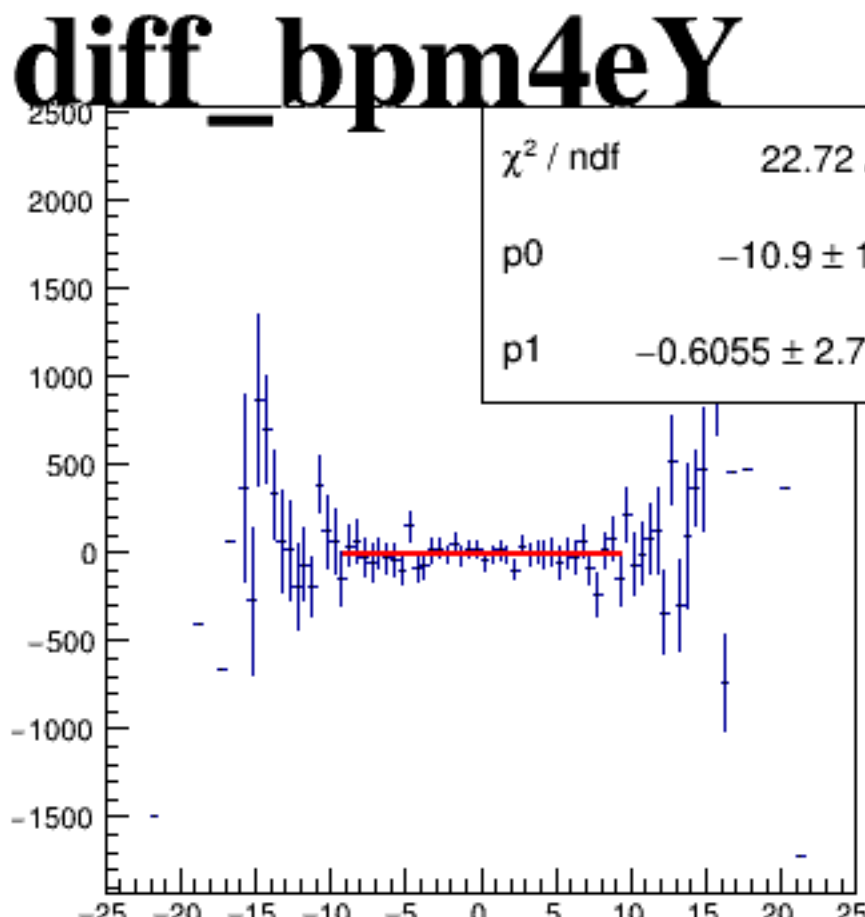
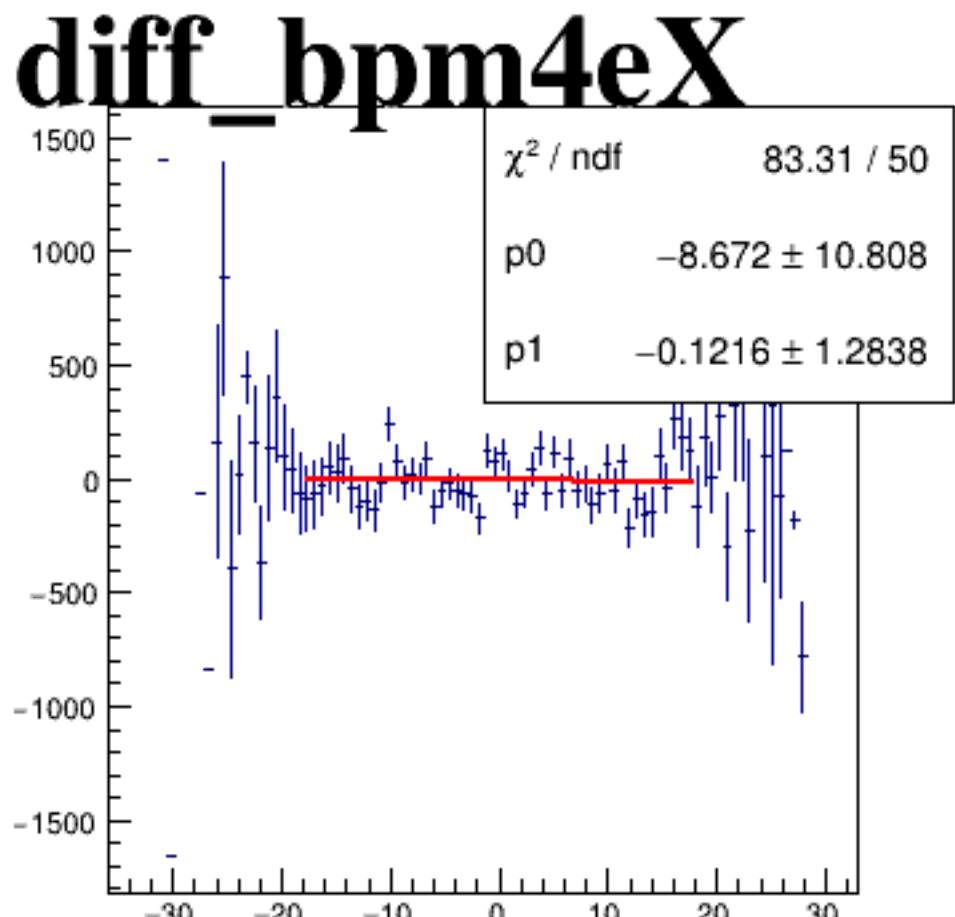
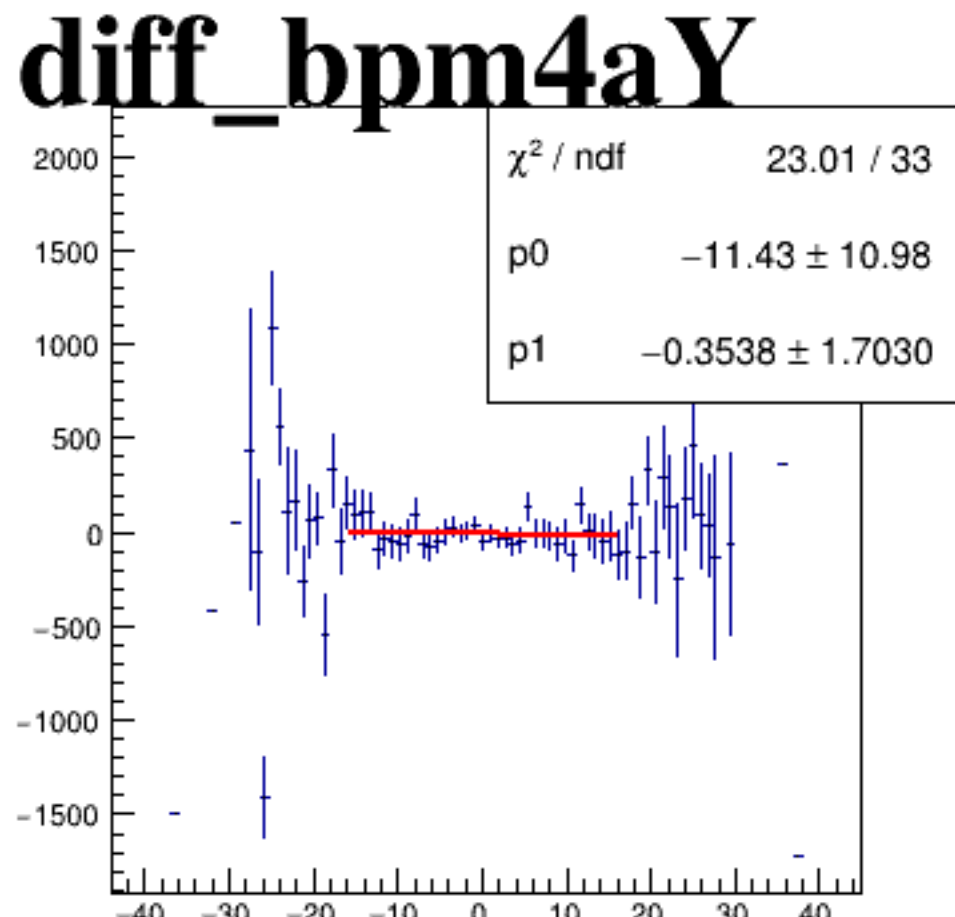
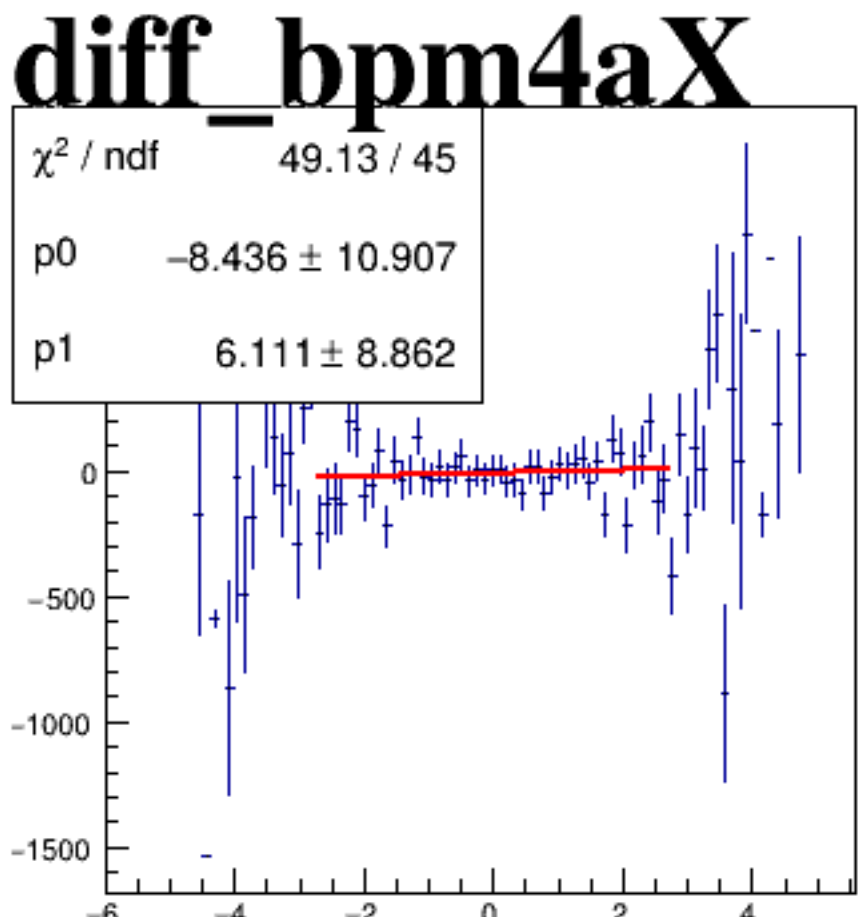
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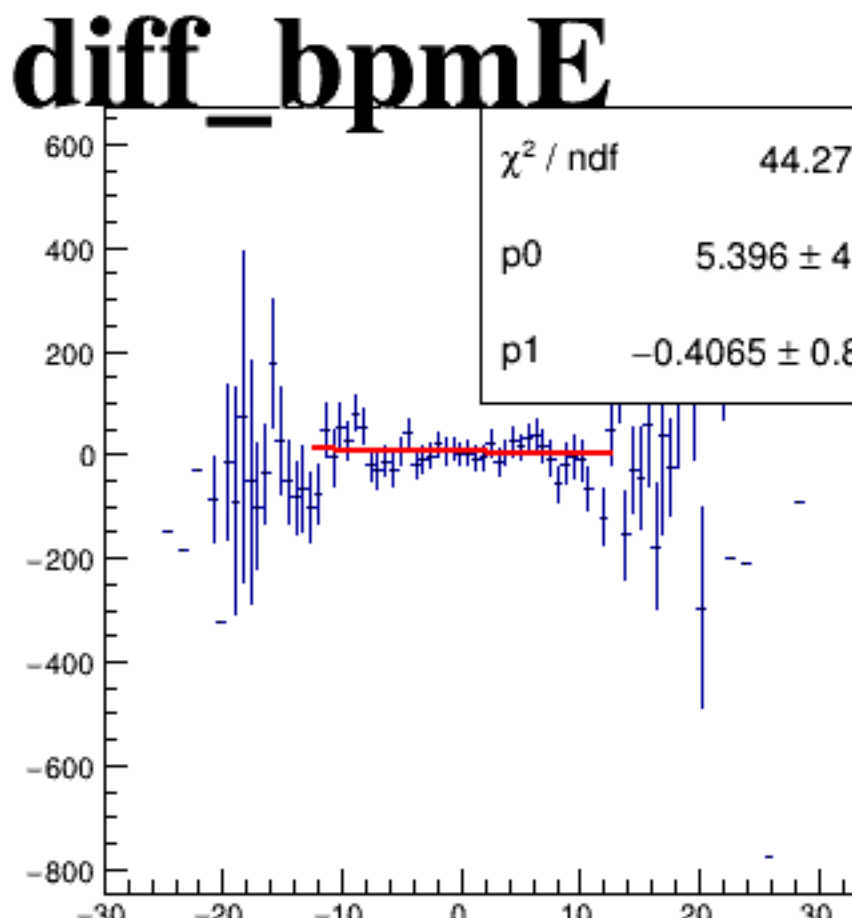
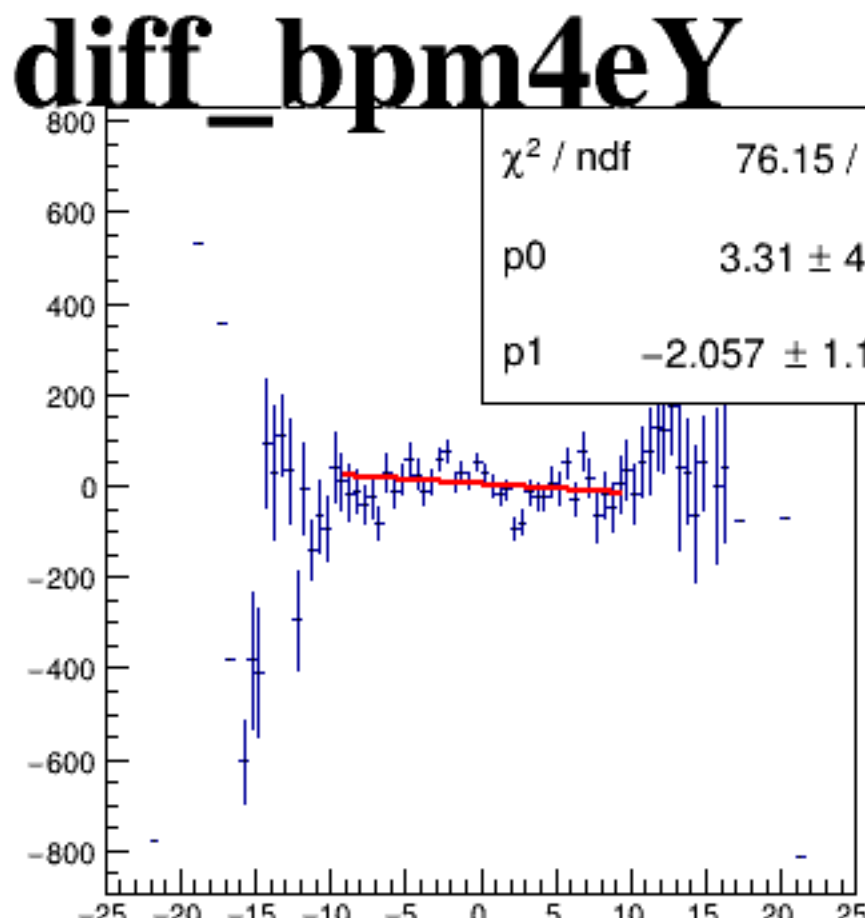
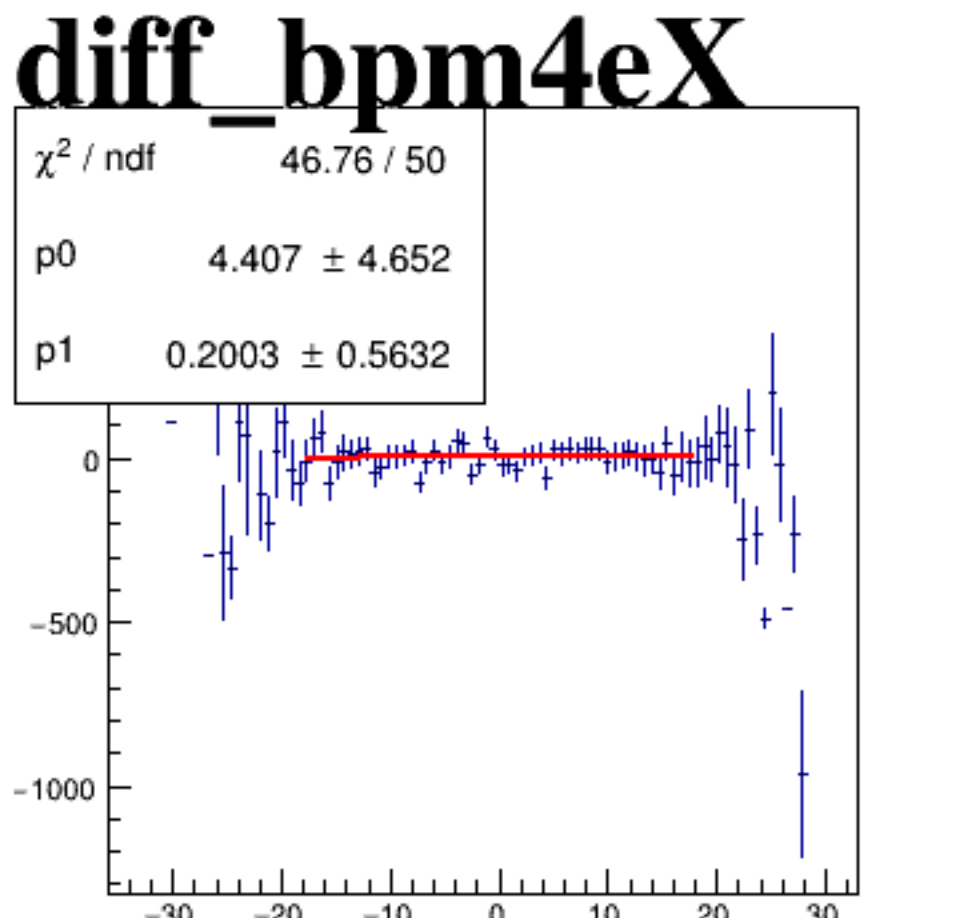
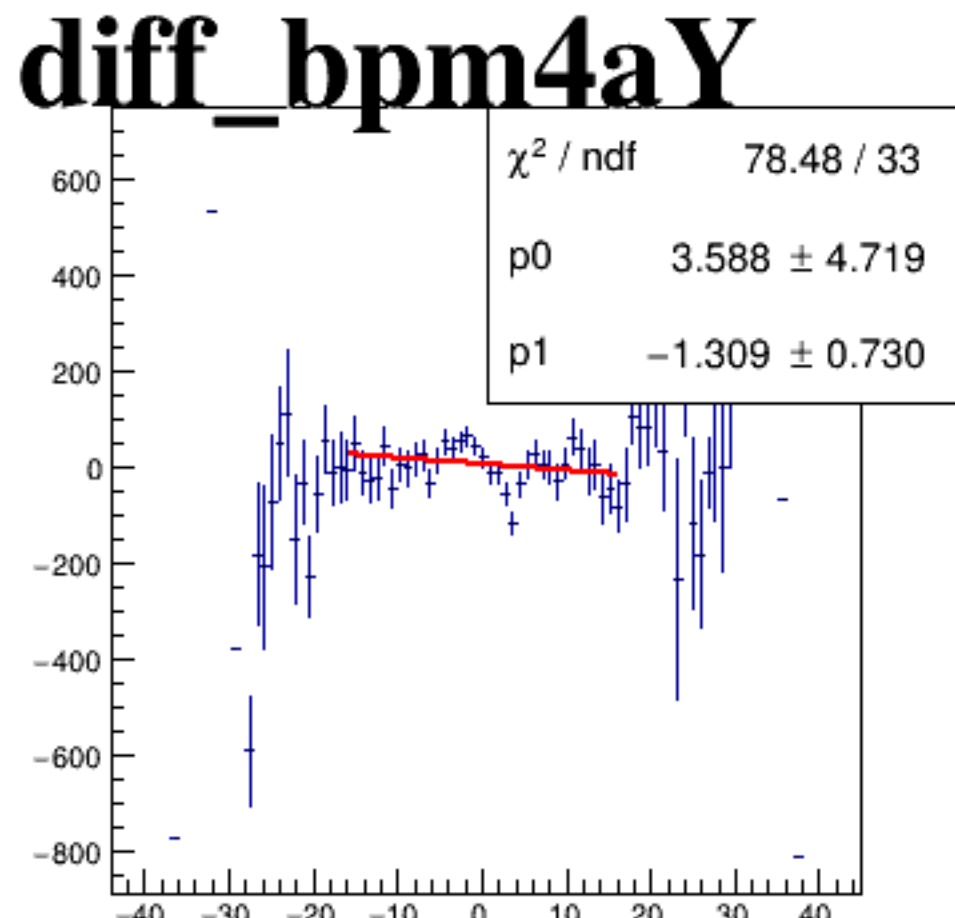
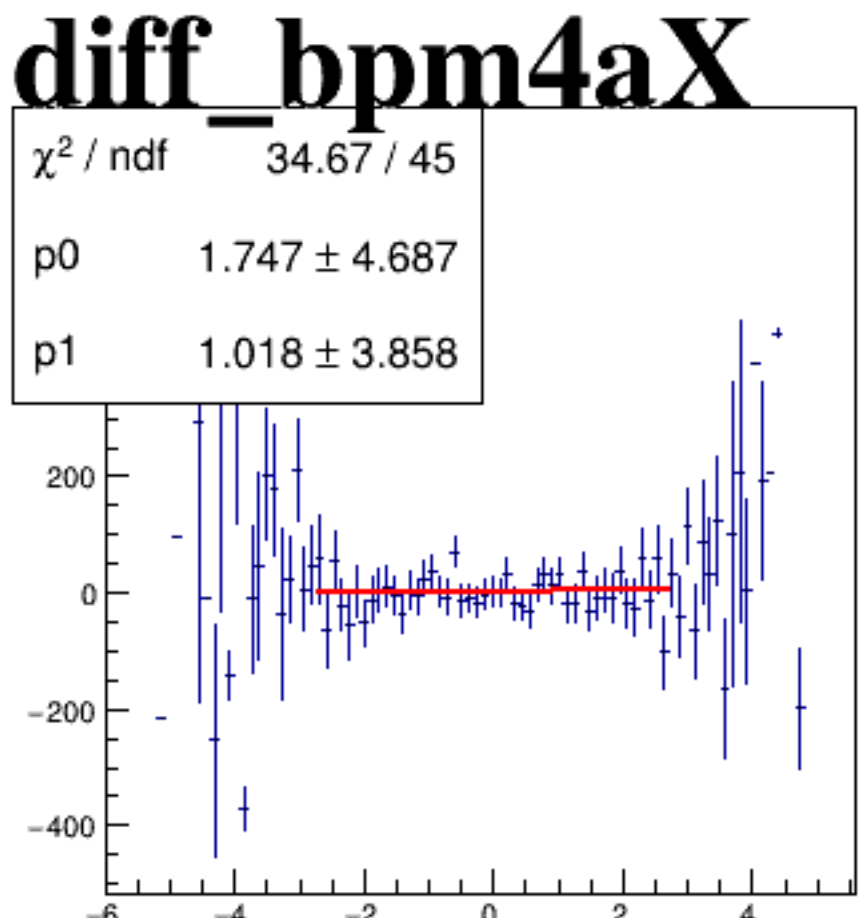
reg_asym_sam2



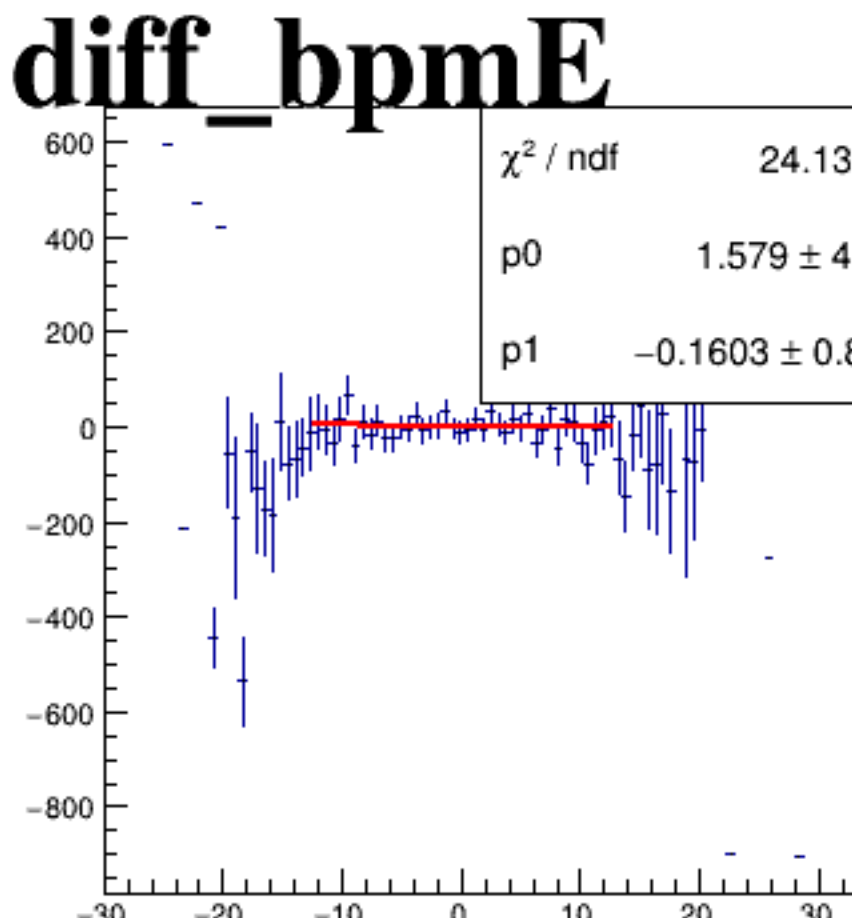
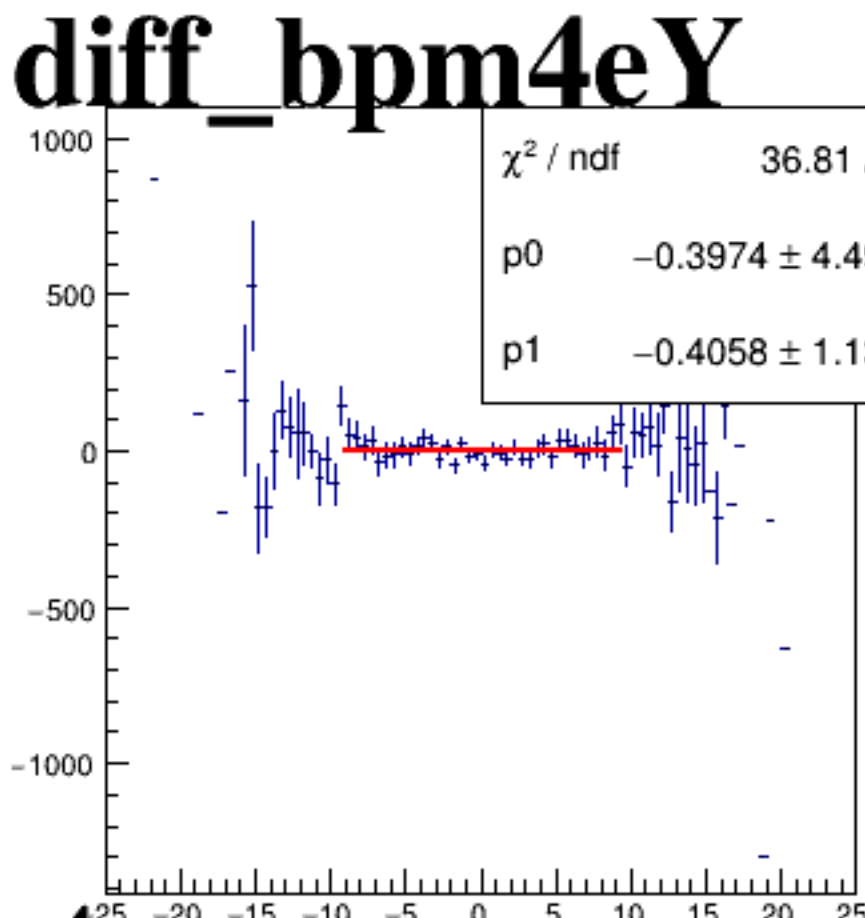
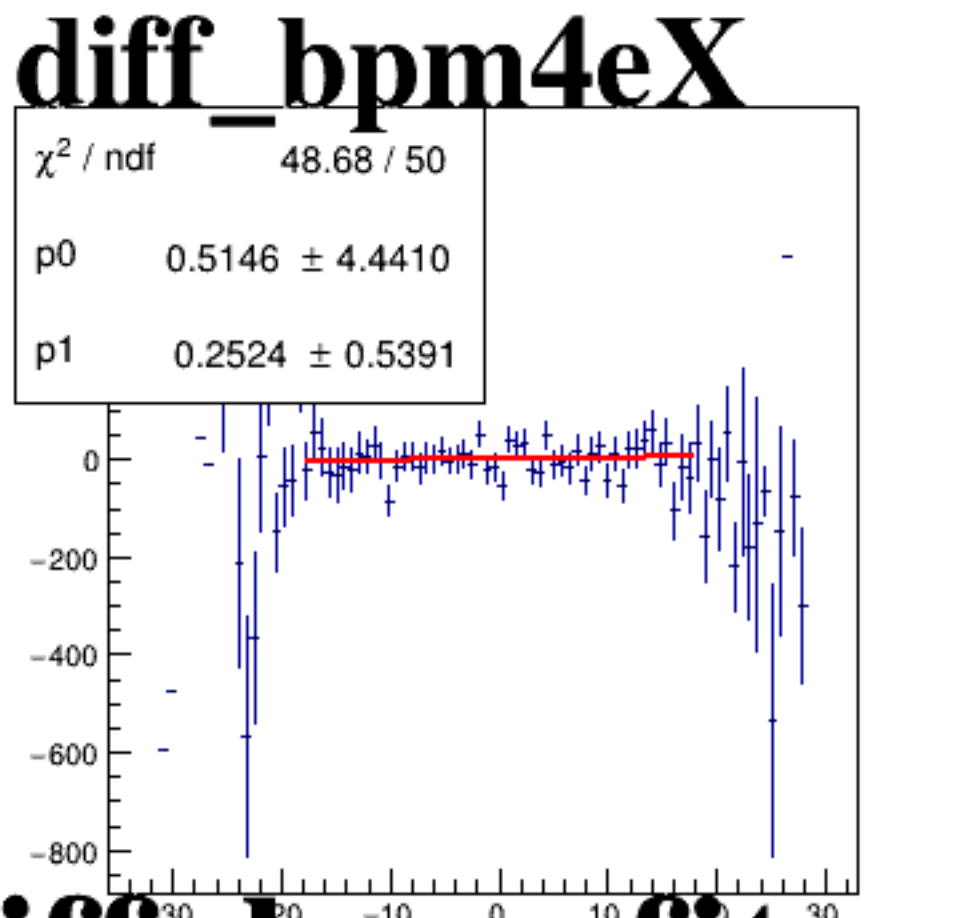
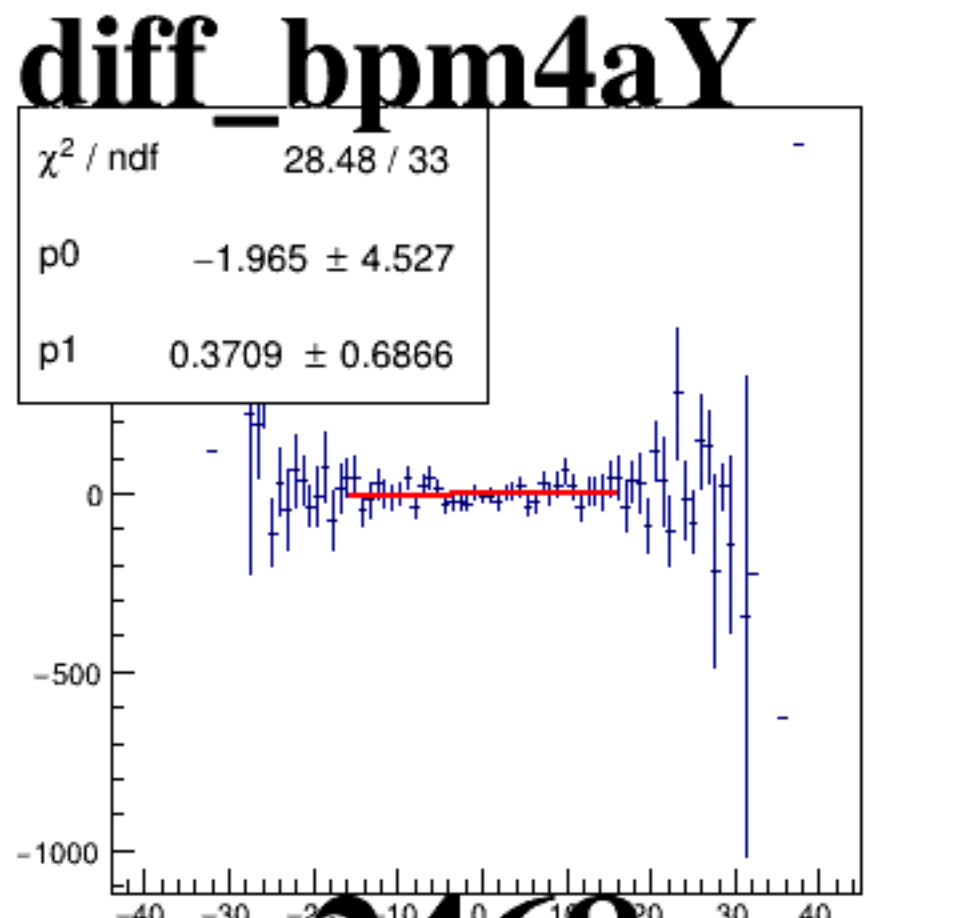
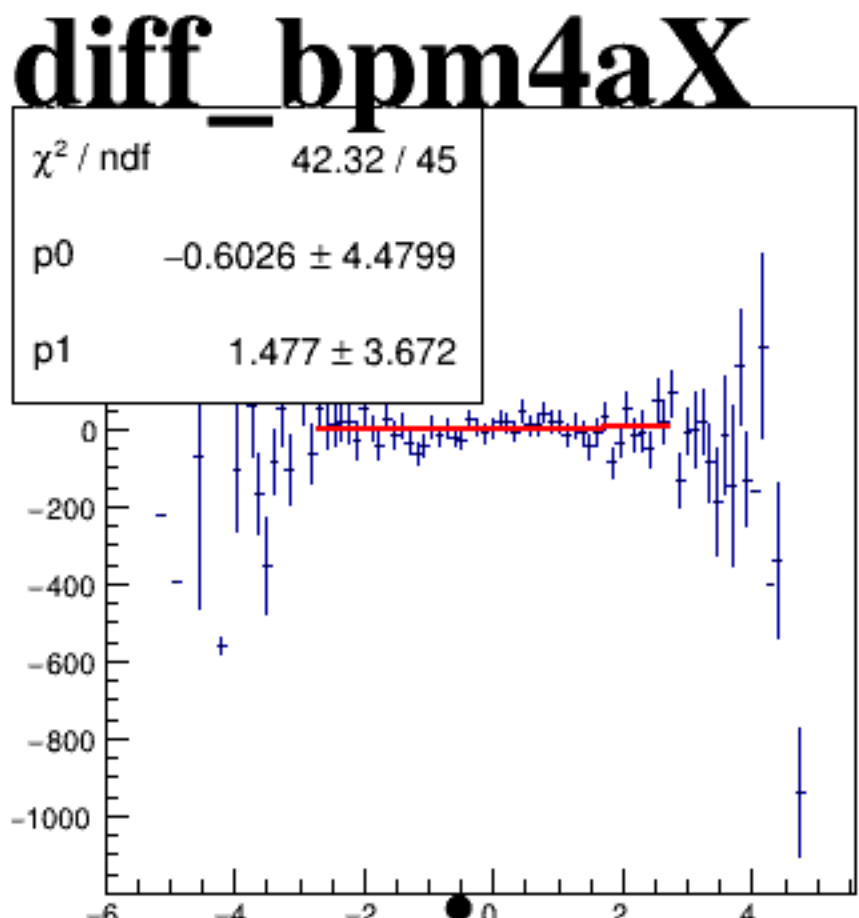
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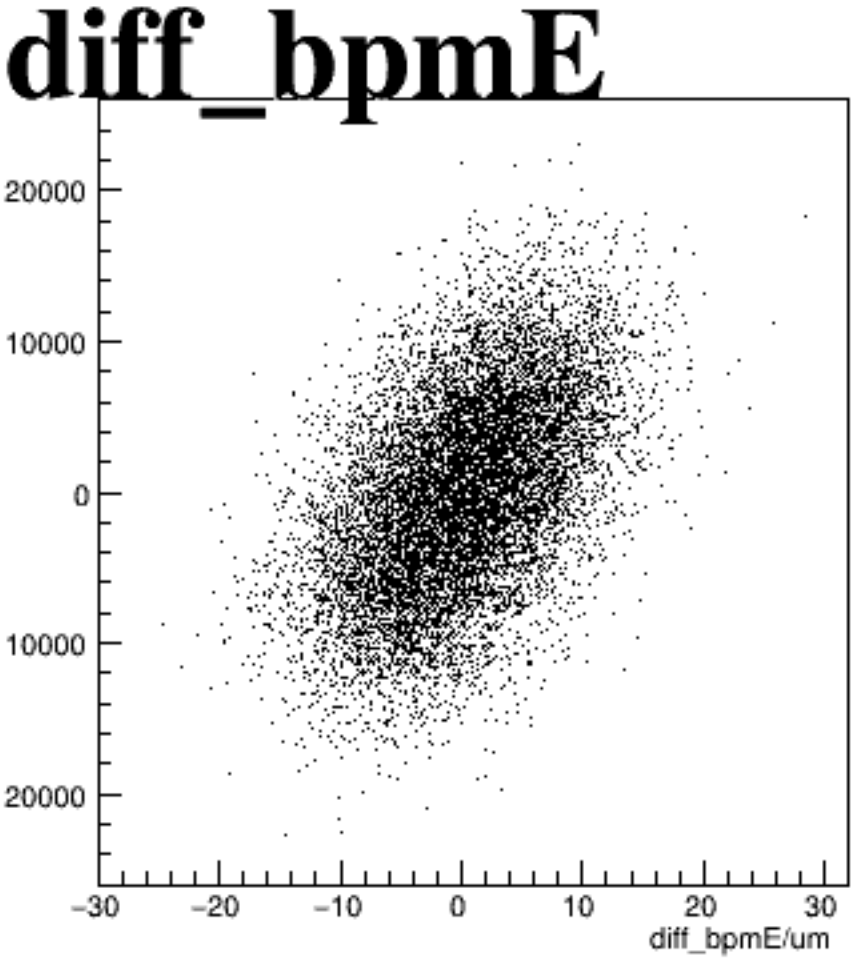
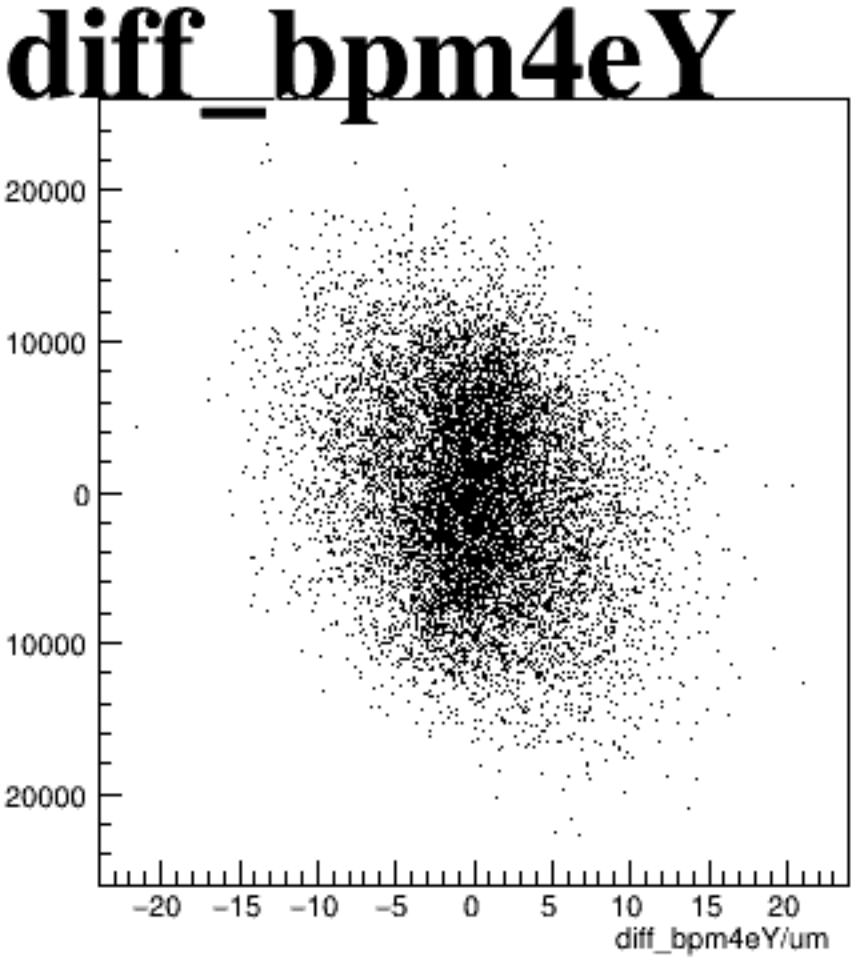
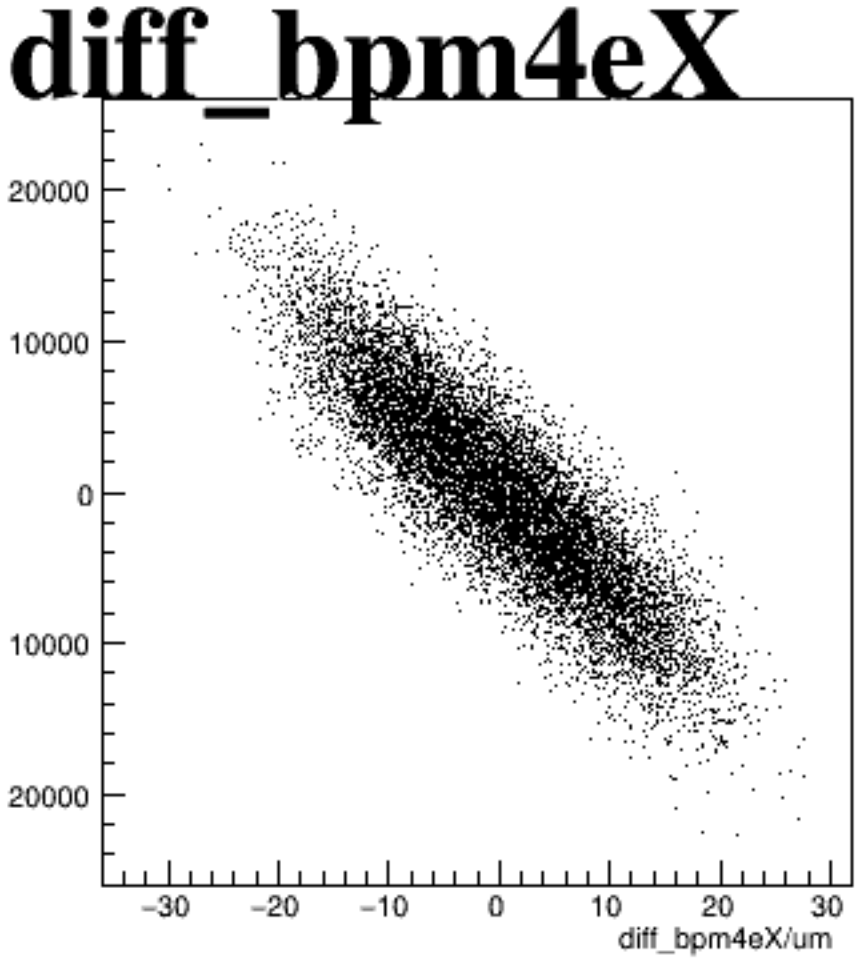
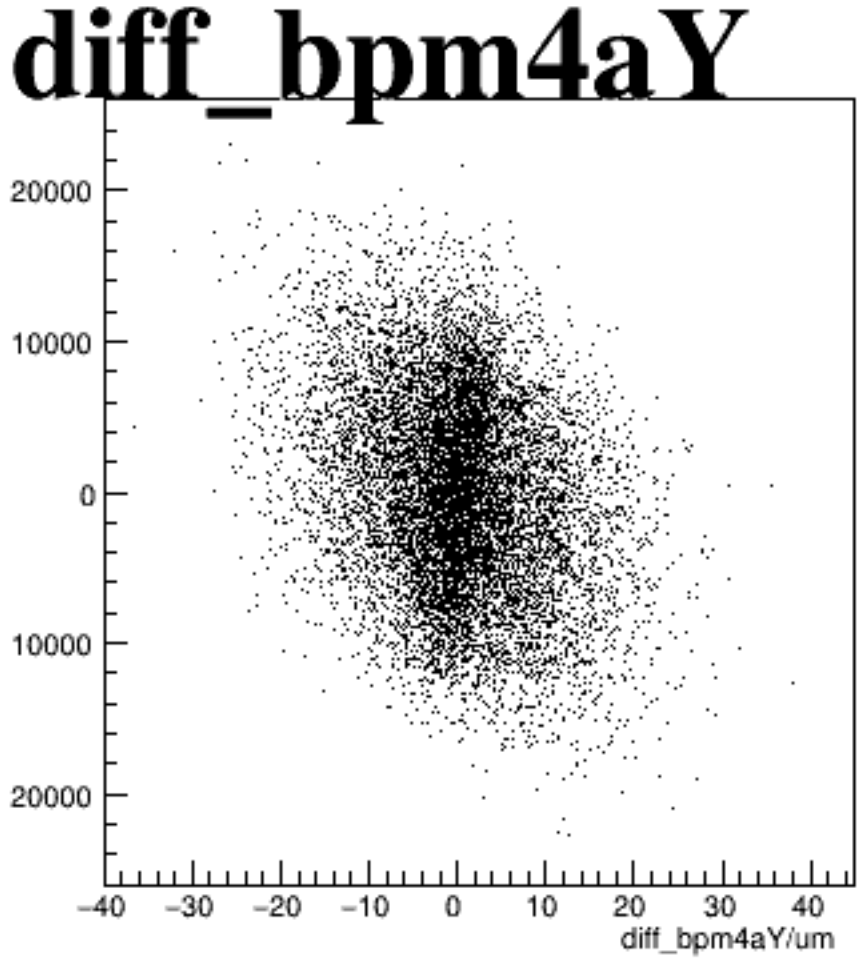
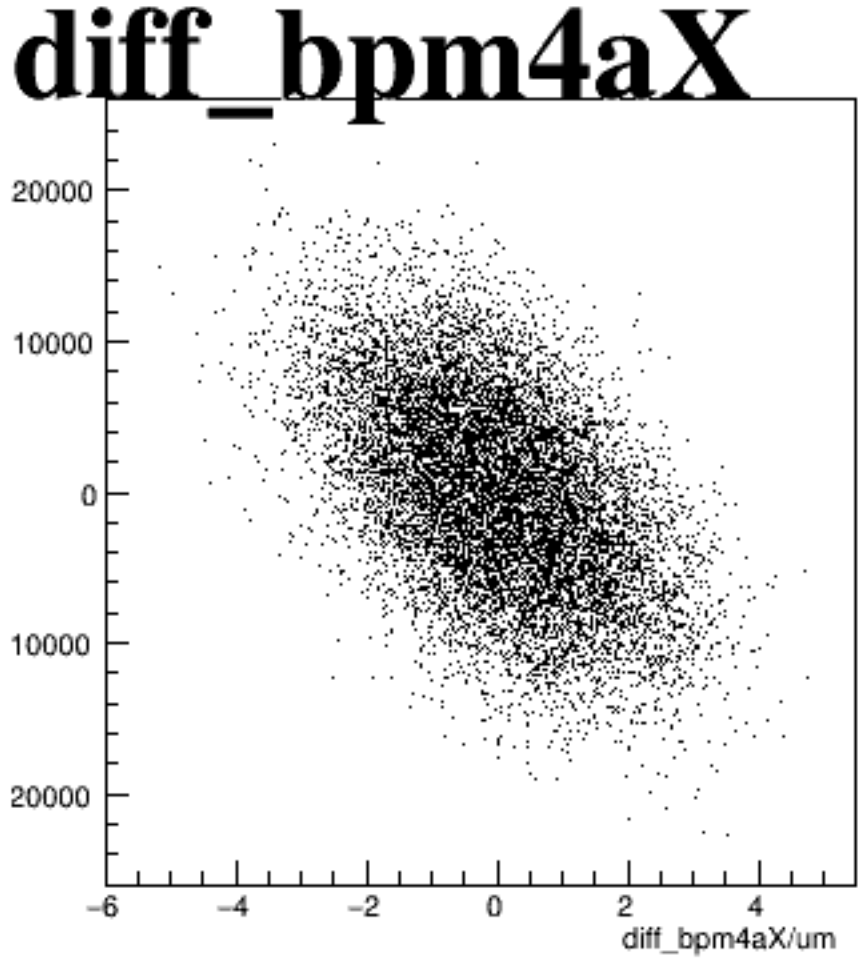
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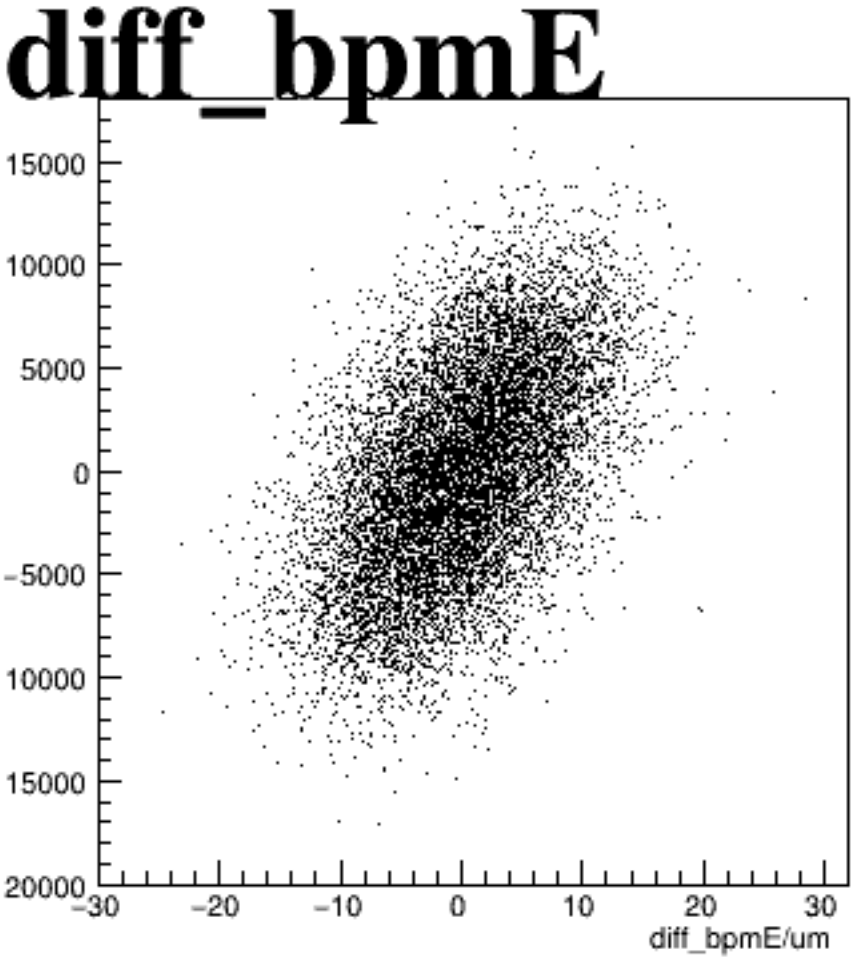
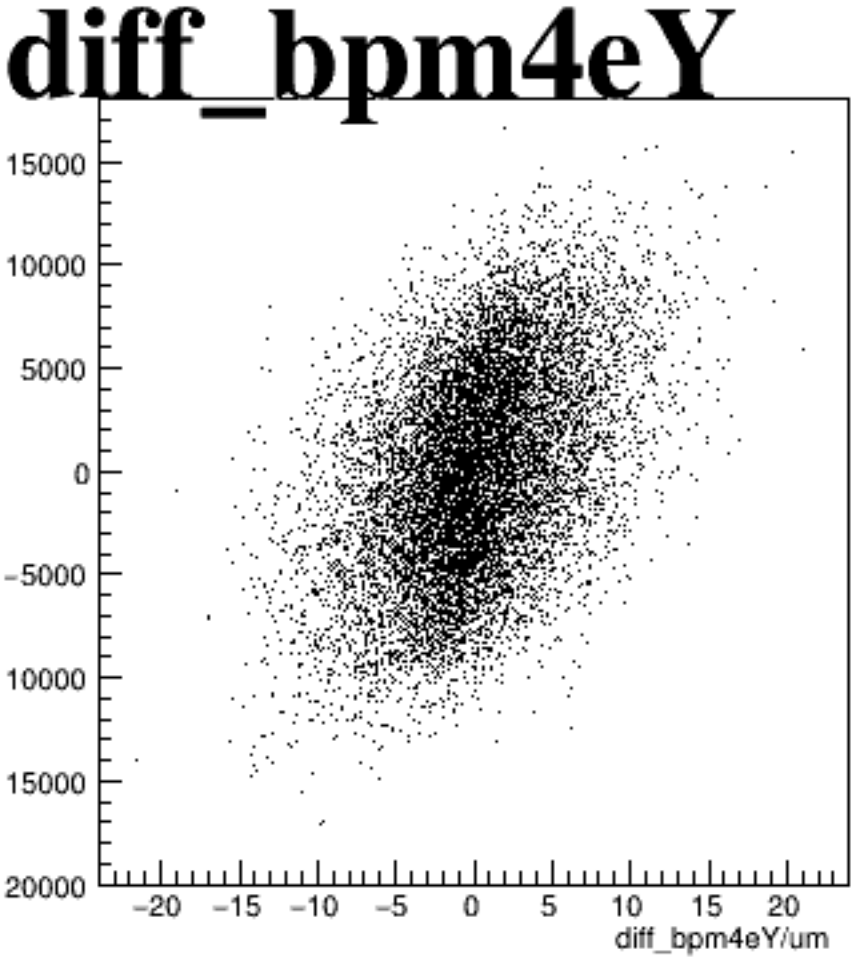
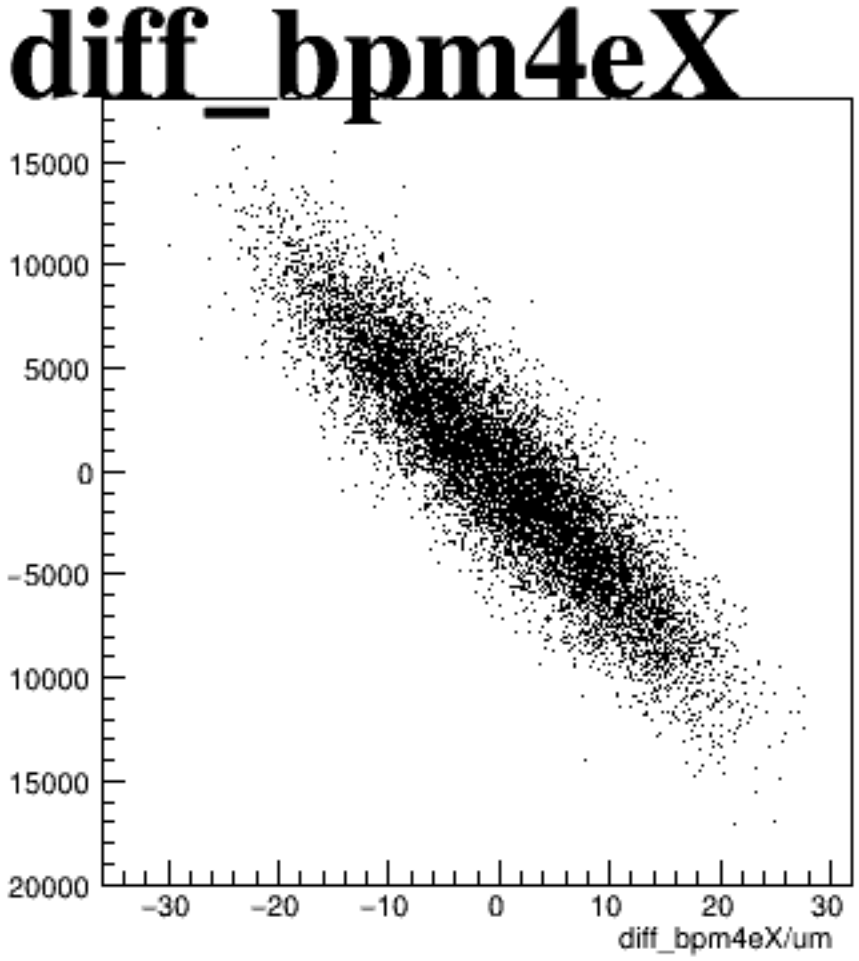
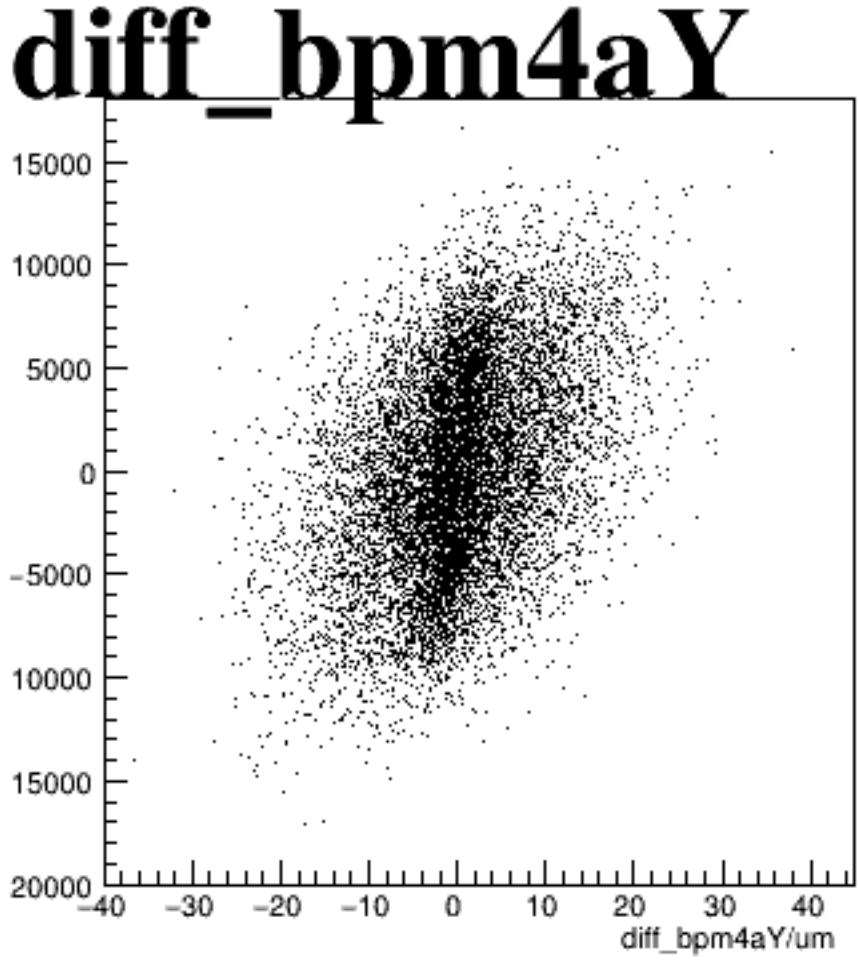
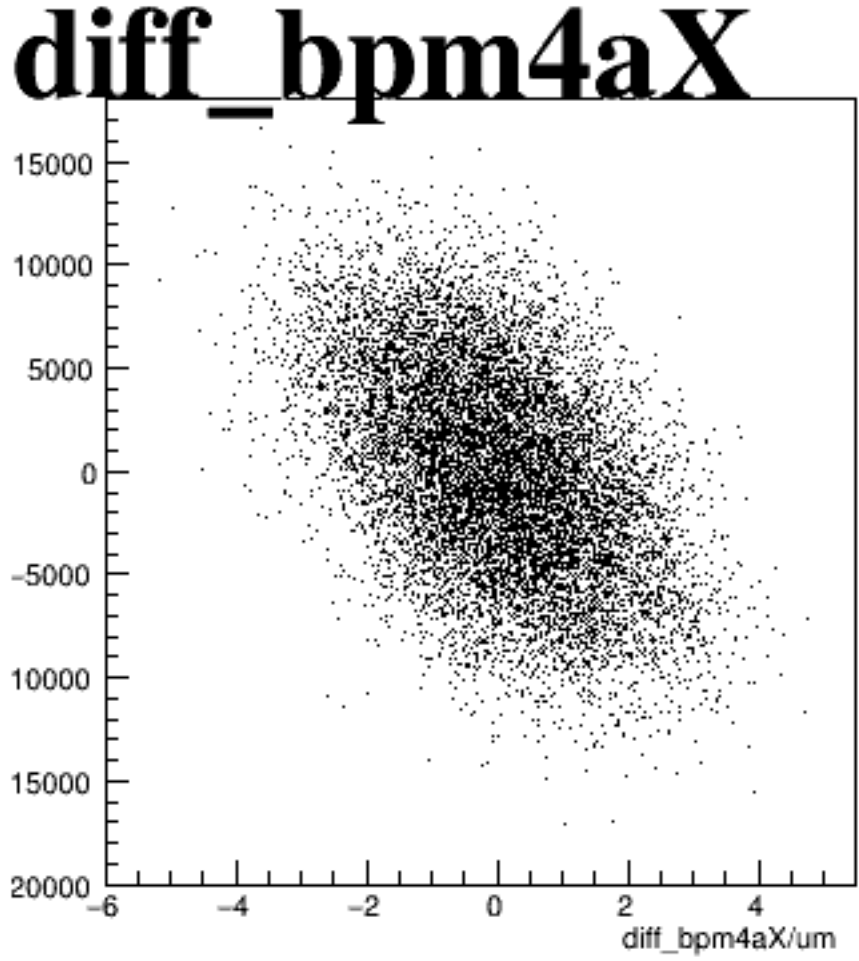
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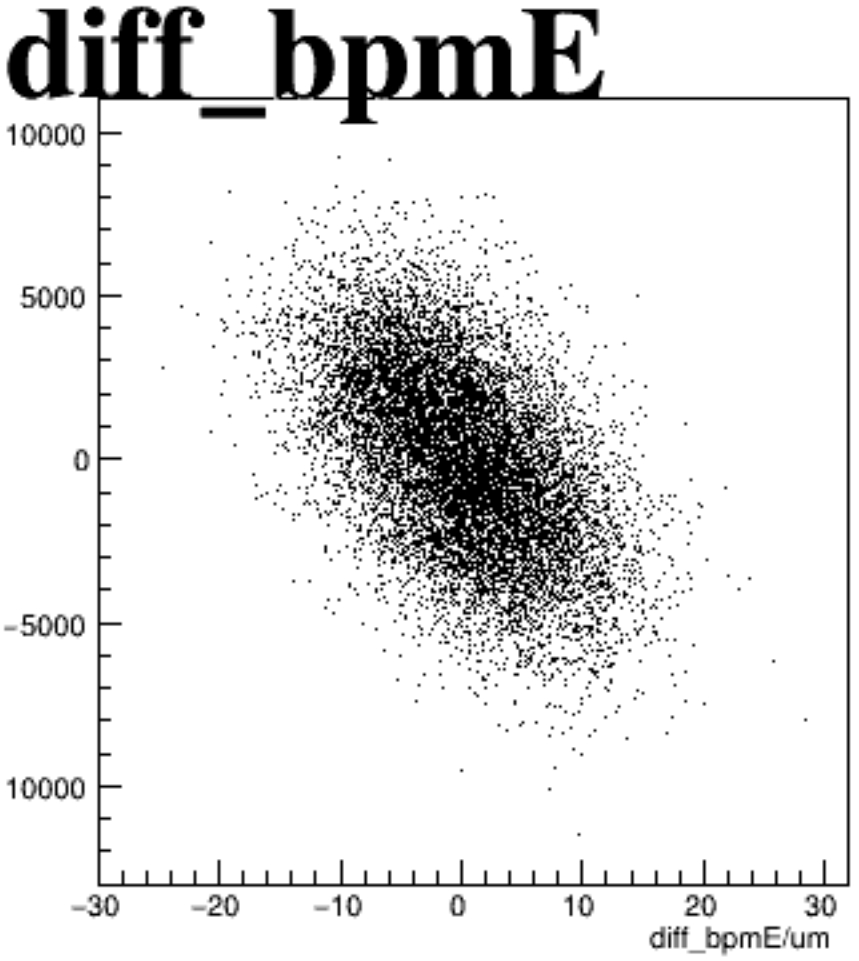
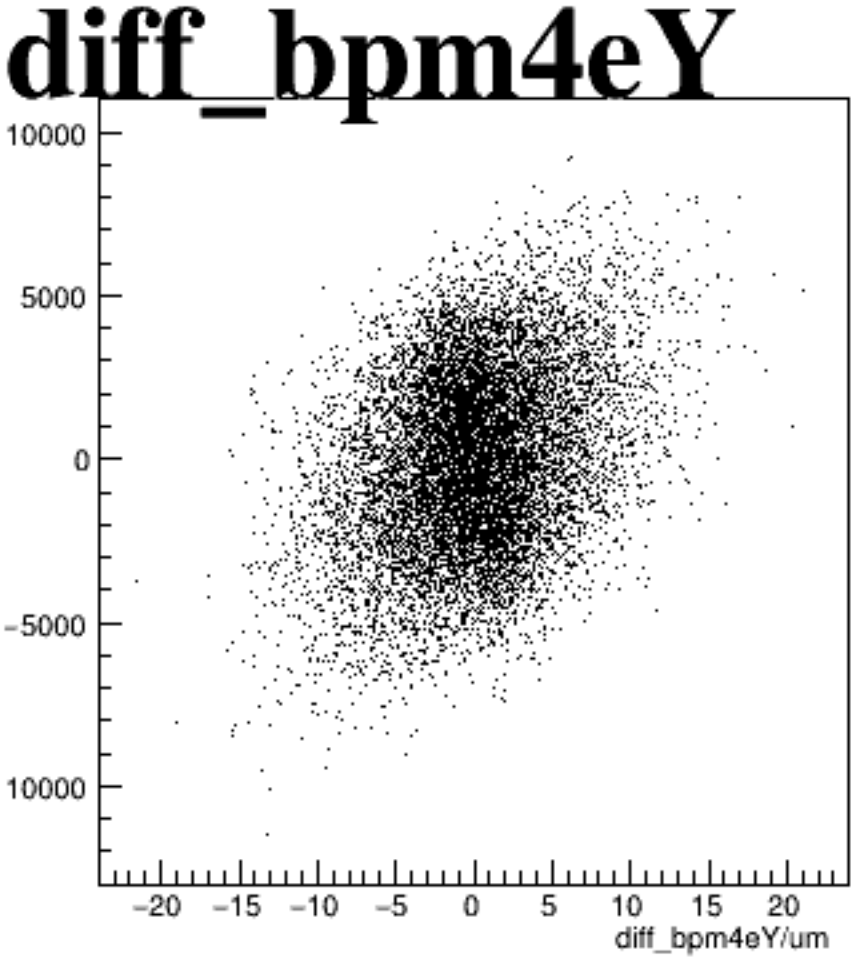
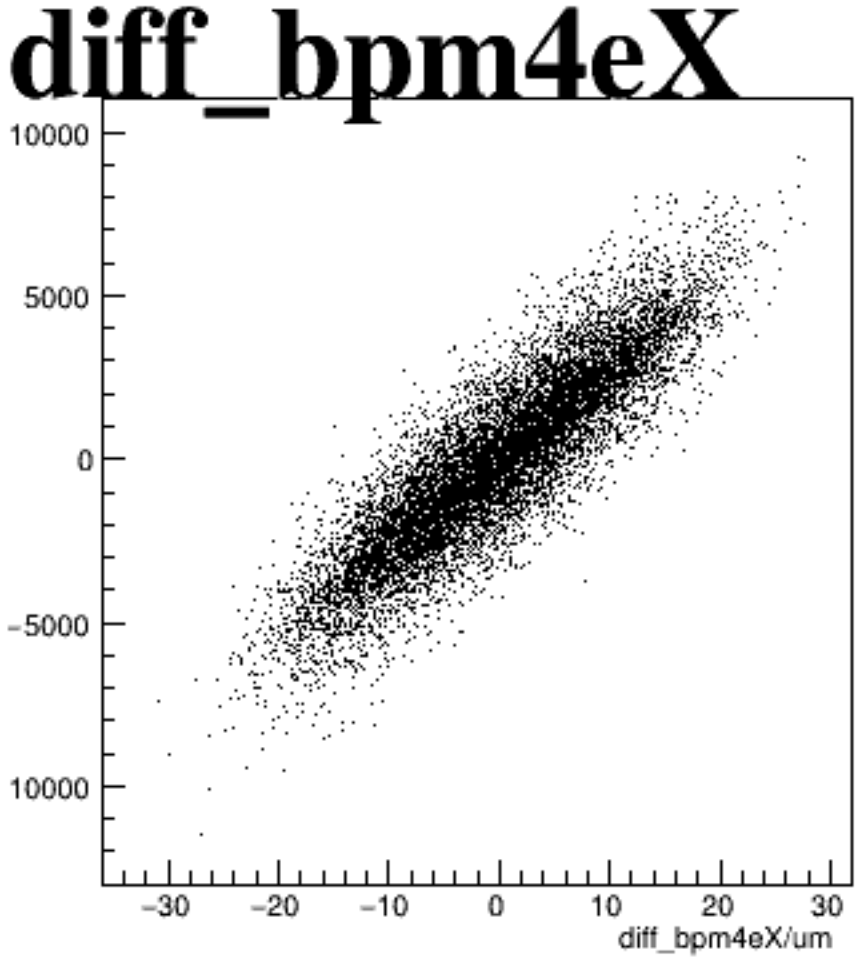
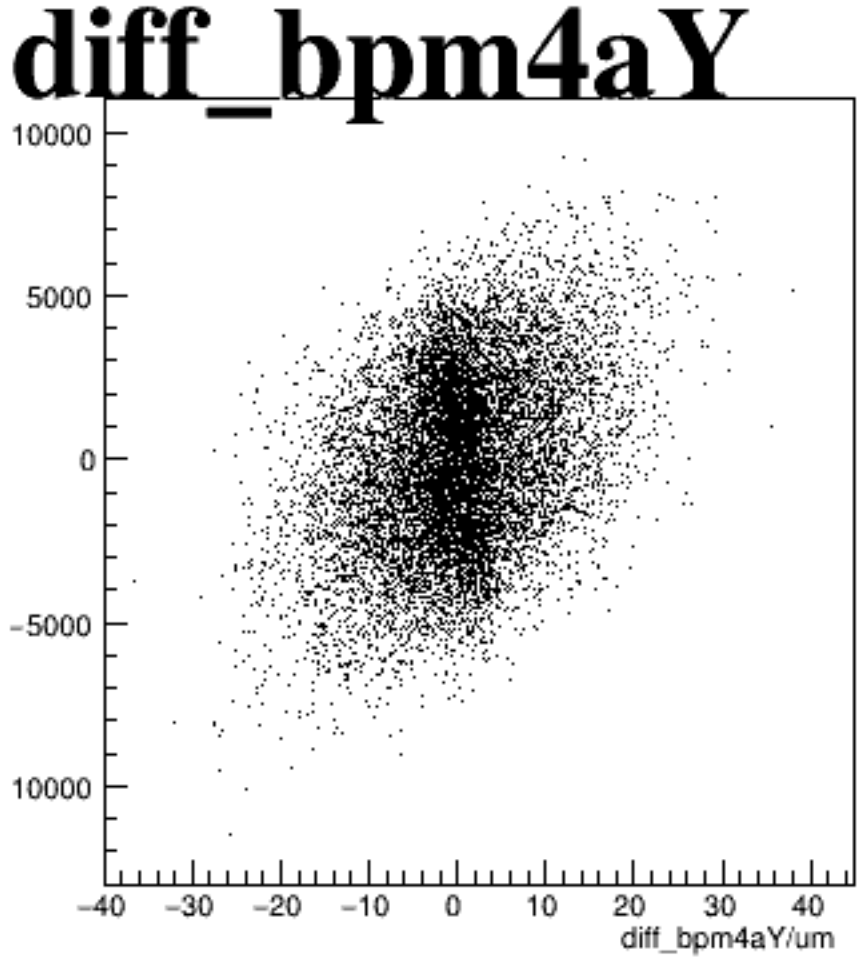
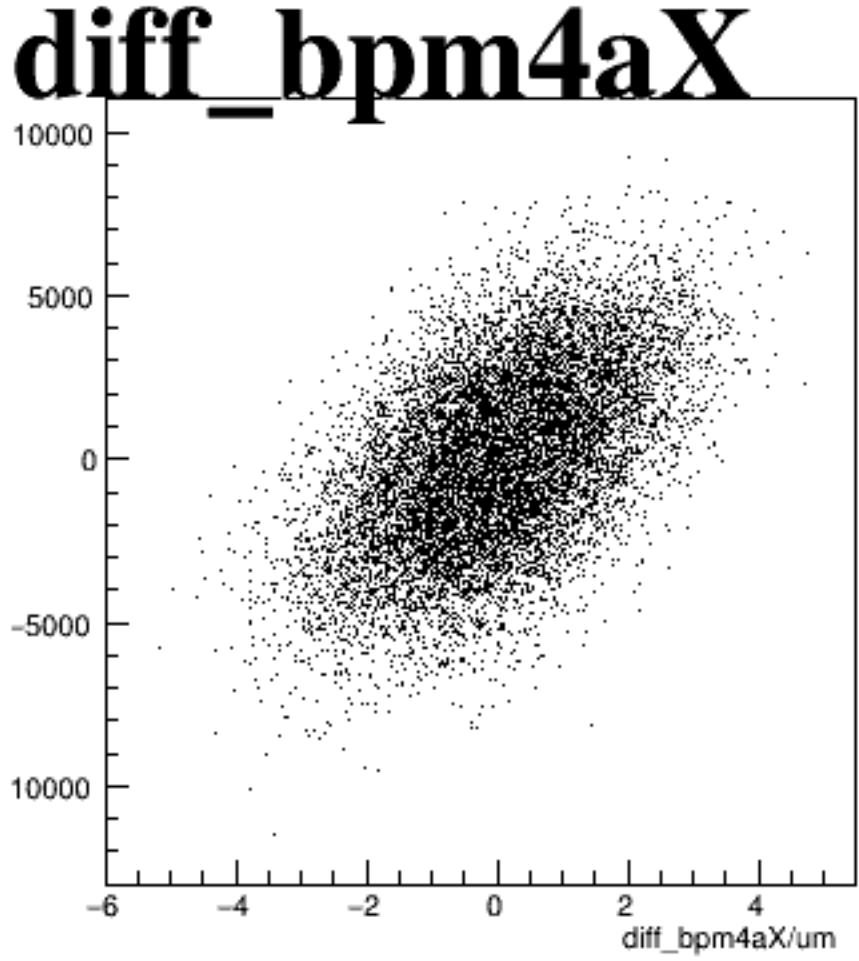
asym_sam2



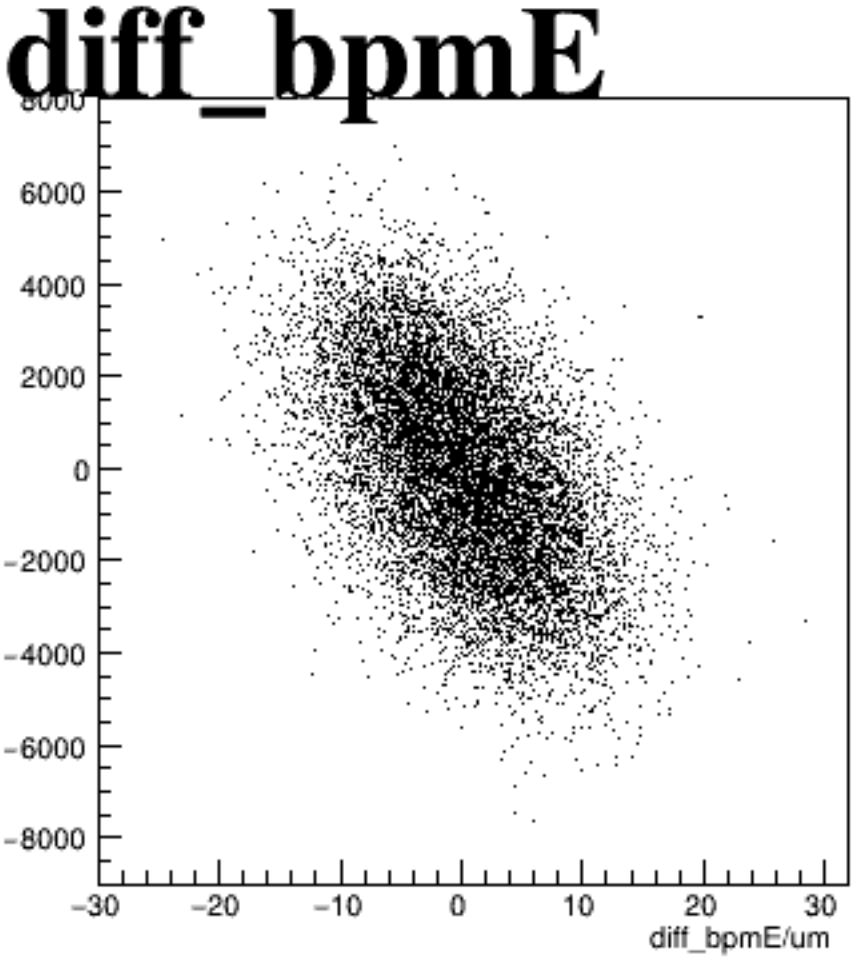
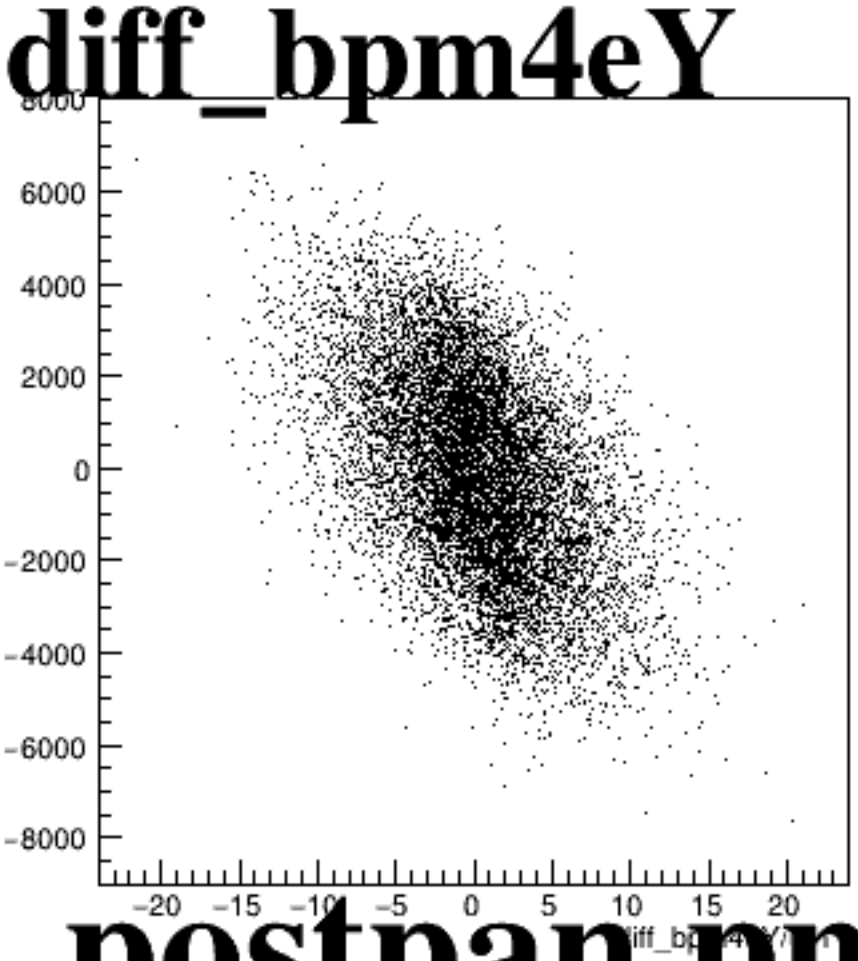
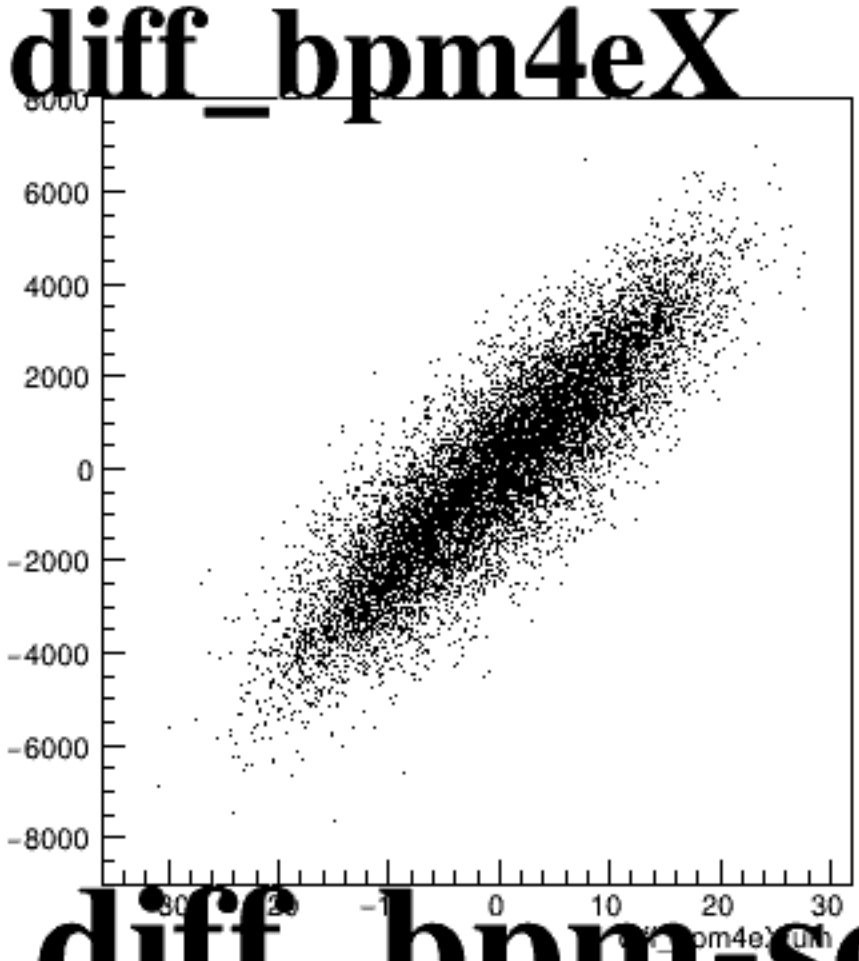
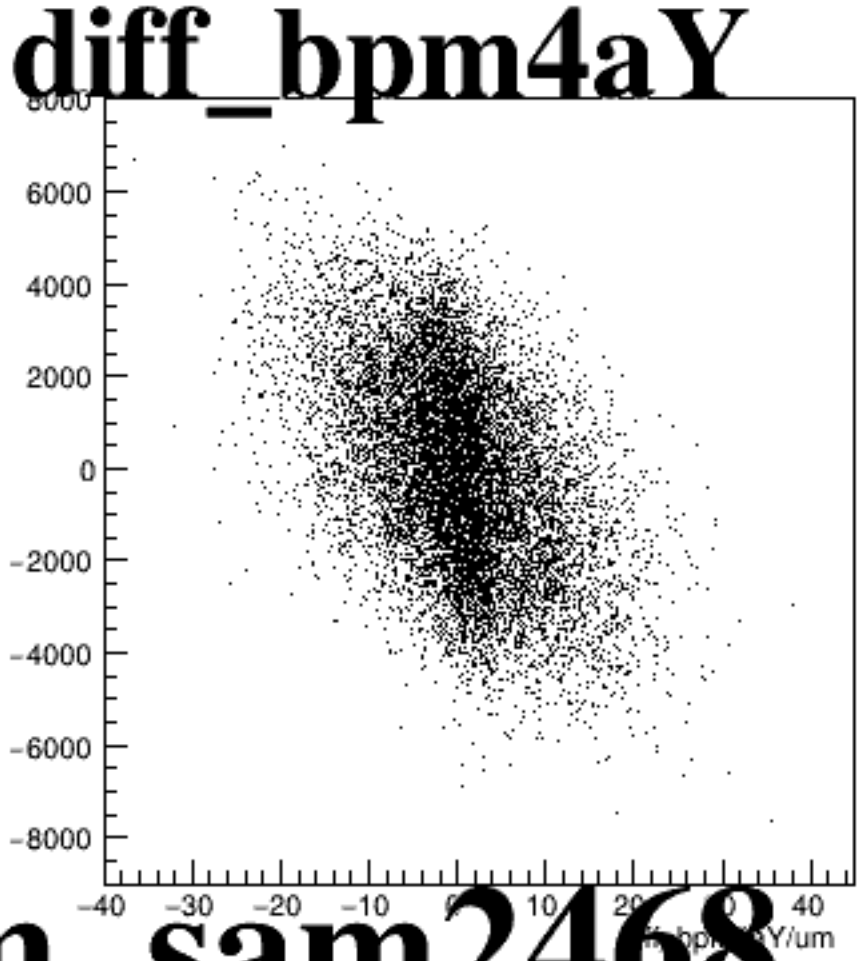
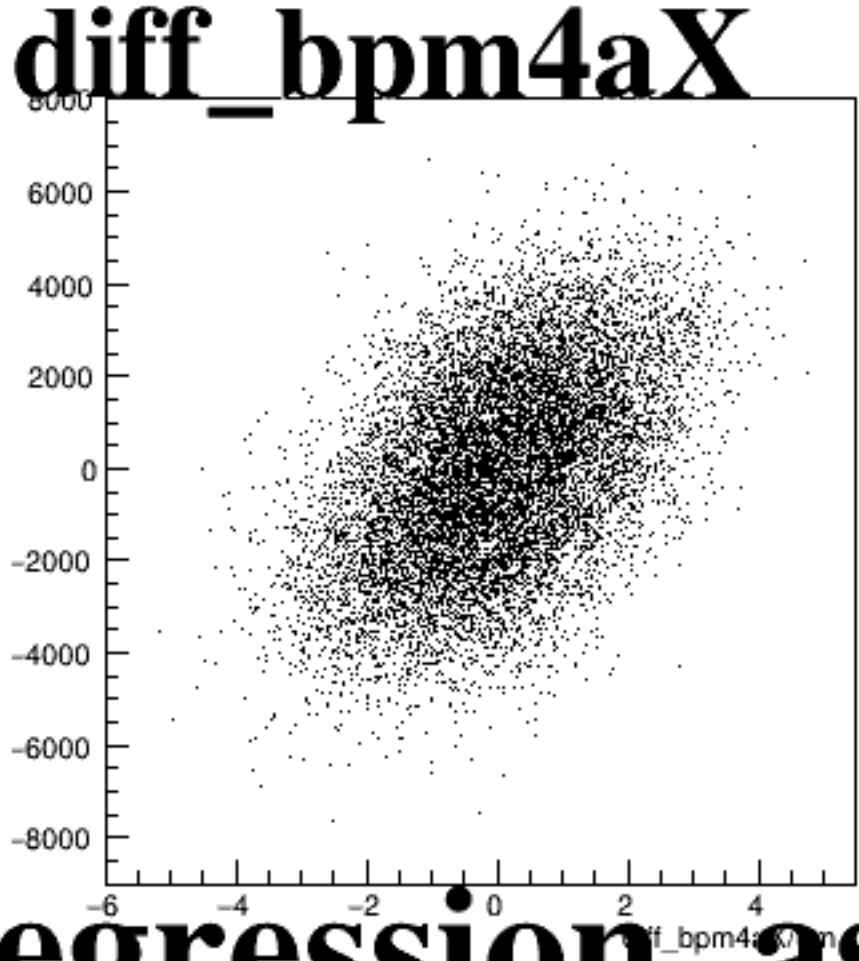
asym_sam4



asym_sam6



asym_sam8



The figure displays five scatter plots, each representing the difference between two measurement methods for a specific beam parameter. The plots are arranged horizontally and labeled as follows:

- diff_bpm4aX:** The x-axis ranges from -6 to 4, and the y-axis ranges from -8000 to 8000. The data points are centered around zero.
- diff_bpm4aY:** The x-axis ranges from -40 to 40, and the y-axis ranges from -8000 to 8000. The data points are centered around zero.
- diff_bpm4eX:** The x-axis ranges from -30 to 30, and the y-axis ranges from -8000 to 8000. The data points are centered around zero.
- diff_bpm4eY:** The x-axis ranges from -20 to 20, and the y-axis ranges from -8000 to 8000. The data points are centered around zero.
- diff_bpmE:** The x-axis ranges from -30 to 30, and the y-axis ranges from -8000 to 8000. The data points are centered around zero.

In all plots, the x-axis represents the difference between the two measurement methods, and the y-axis represents the absolute value of the difference. The dense cloud of points centered around zero indicates that the two measurement methods are in good agreement for all four beam parameters.

The figure consists of five scatter plots arranged horizontally, each showing the distribution of differences in BPM parameters for four different beam parameters. The plots are titled as follows:

- diff_bpm4aX**: The x-axis is labeled `diff_bpm4aX/um` and ranges from -6 to 4. The y-axis ranges from -4000 to 4000.
- diff_bpm4aY**: The x-axis is labeled `diff_bpm4aY/um` and ranges from -40 to 40. The y-axis ranges from -4000 to 4000.
- diff_bpm4eX**: The x-axis is labeled `diff_bpm4eX/um` and ranges from -30 to 30. The y-axis ranges from -4000 to 4000.
- diff_bpm4eY**: The x-axis is labeled `diff_bpm4eY/um` and ranges from -20 to 20. The y-axis ranges from -4000 to 4000.
- diff_bpmE**: The x-axis is labeled `diff_bpmE/um` and ranges from -30 to 30. The y-axis ranges from -4000 to 4000.

In all plots, the data points are densely clustered around the origin (0,0), indicating that the differences between the four beam parameters are small and randomly distributed.

diff_bpm4X

diff_bpm4Y

diff_bpm4eX

diff_bpm4eY

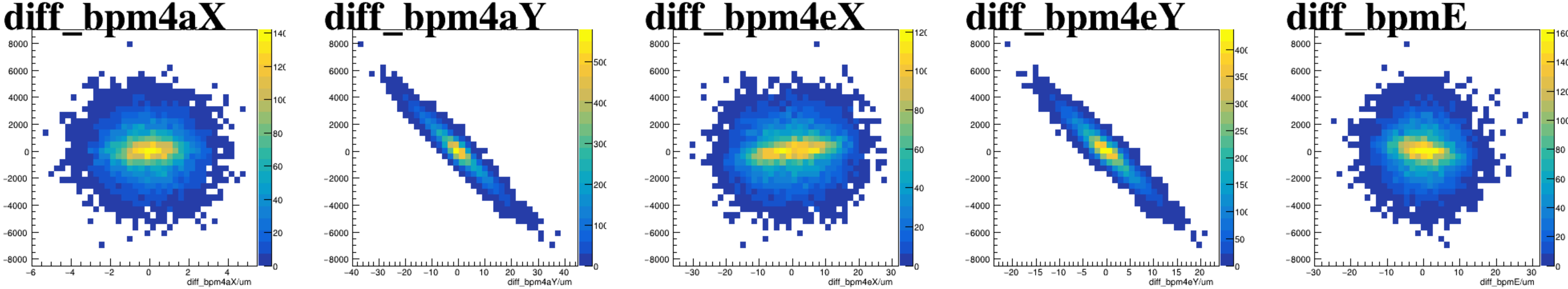
diff_bpmE

regression

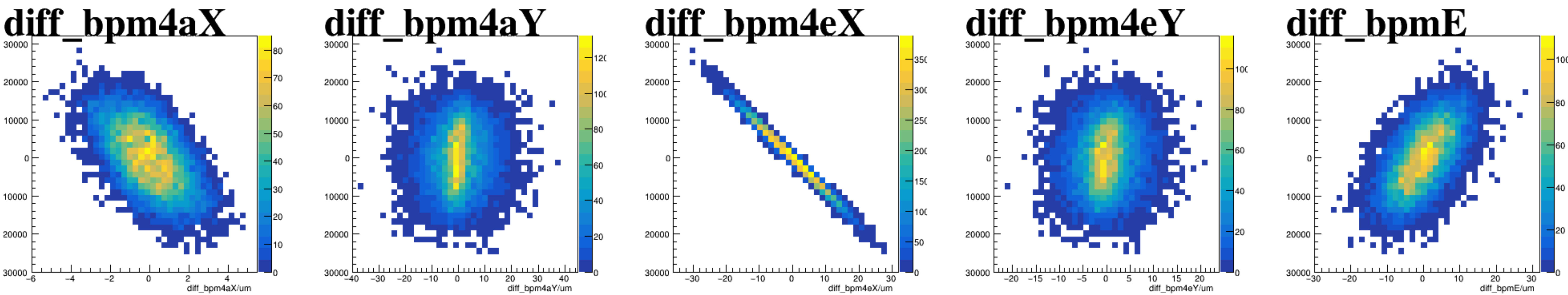
sam2468

postnan

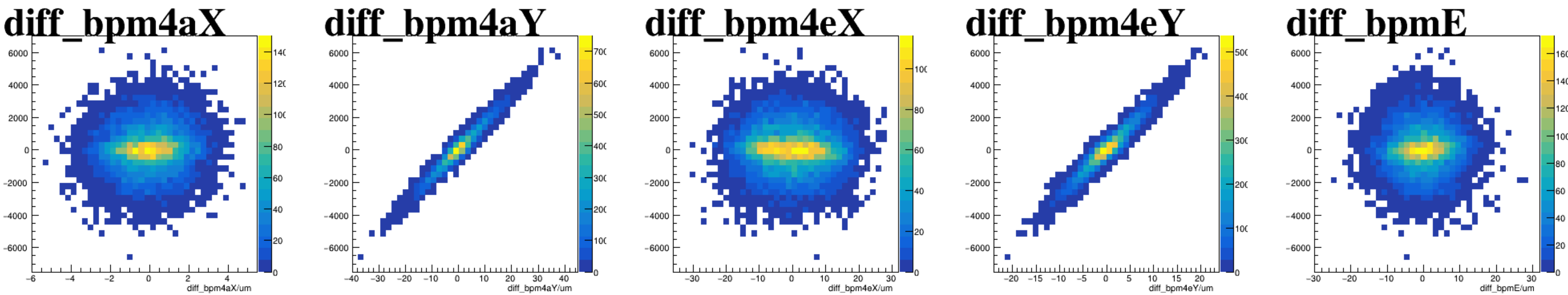
asym_sam1



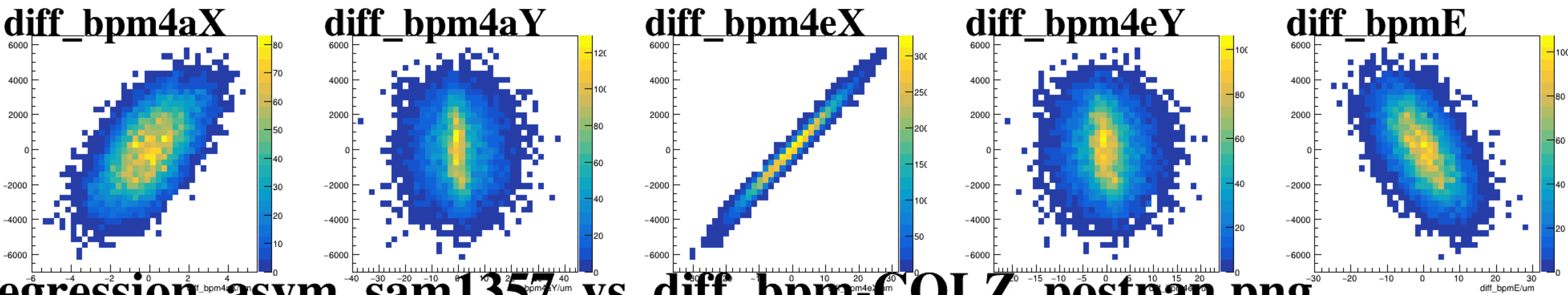
asym_sam3



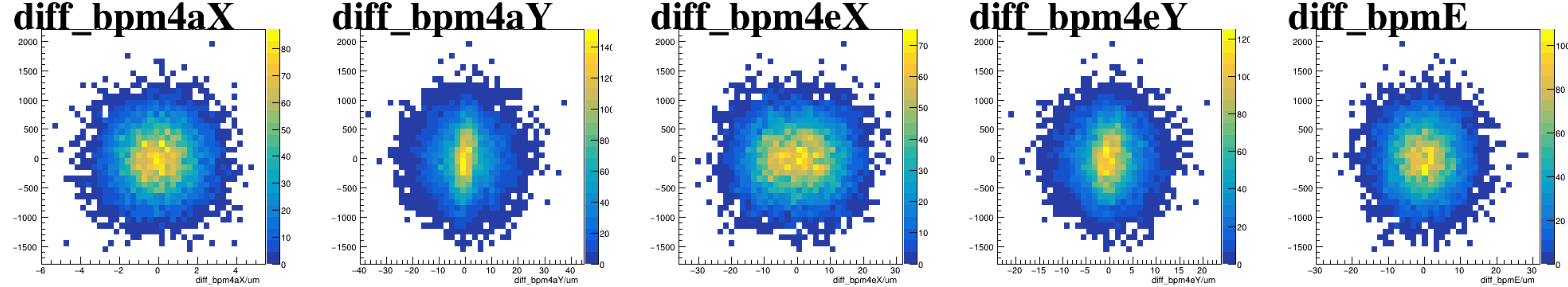
asym_sam5



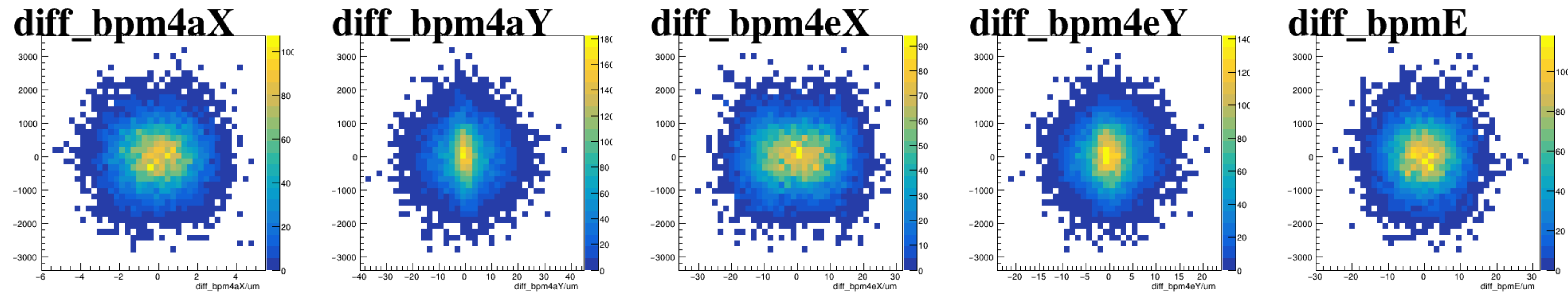
asym_sam7



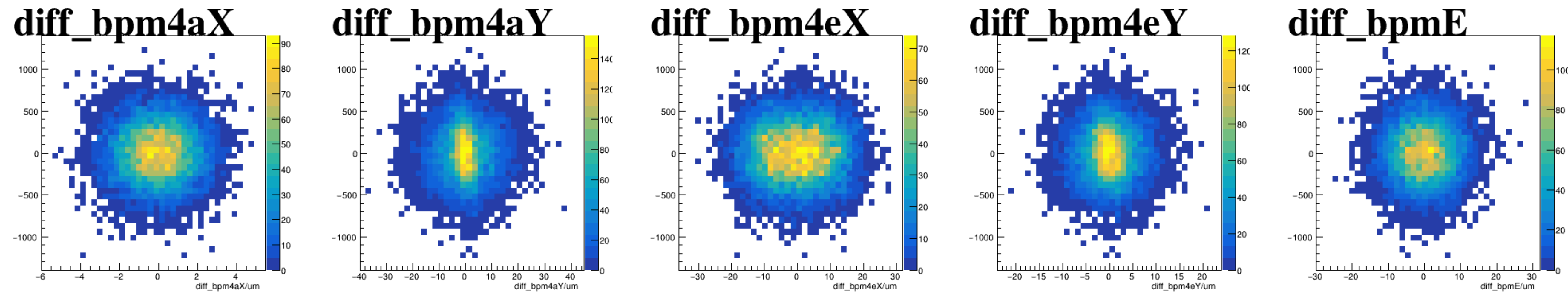
reg_asym_sam1



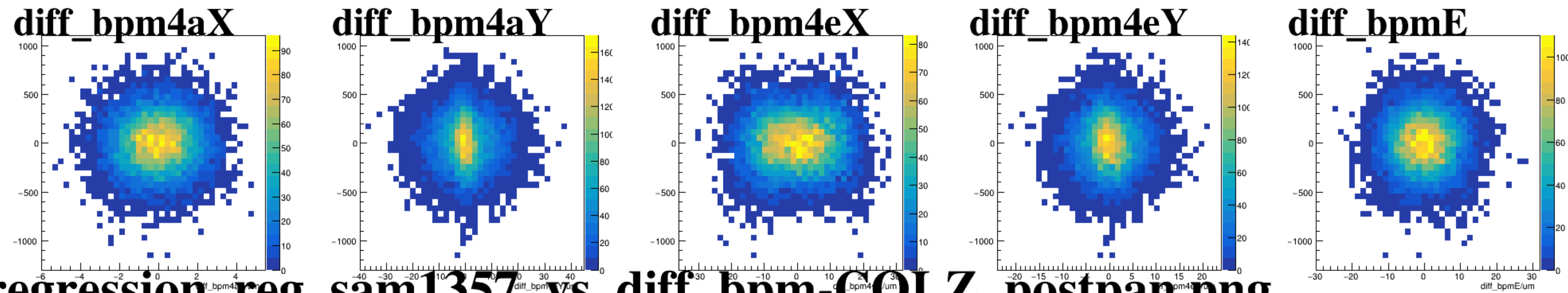
reg_asym_sam3



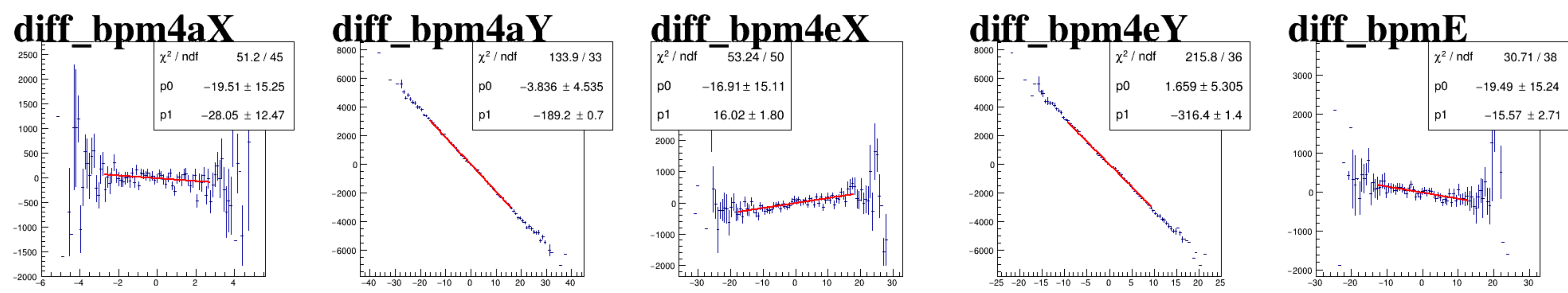
reg_asym_sam5



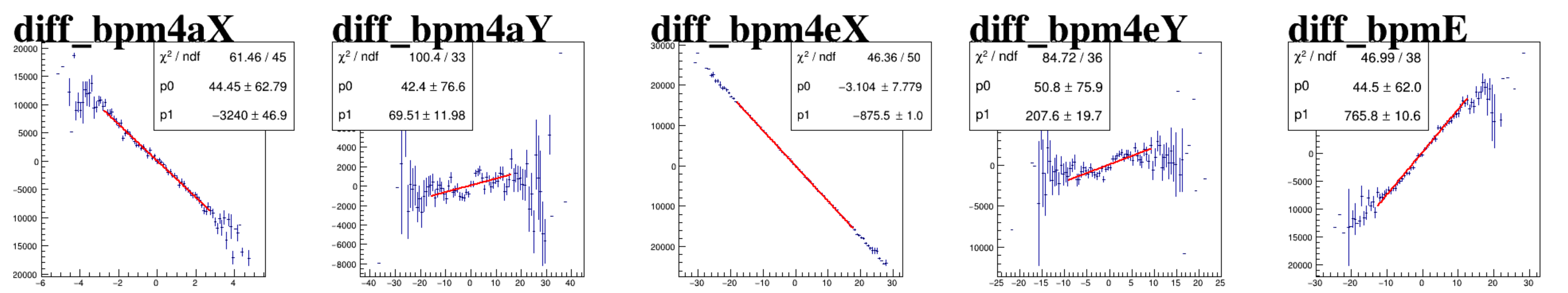
reg_asym_sam7



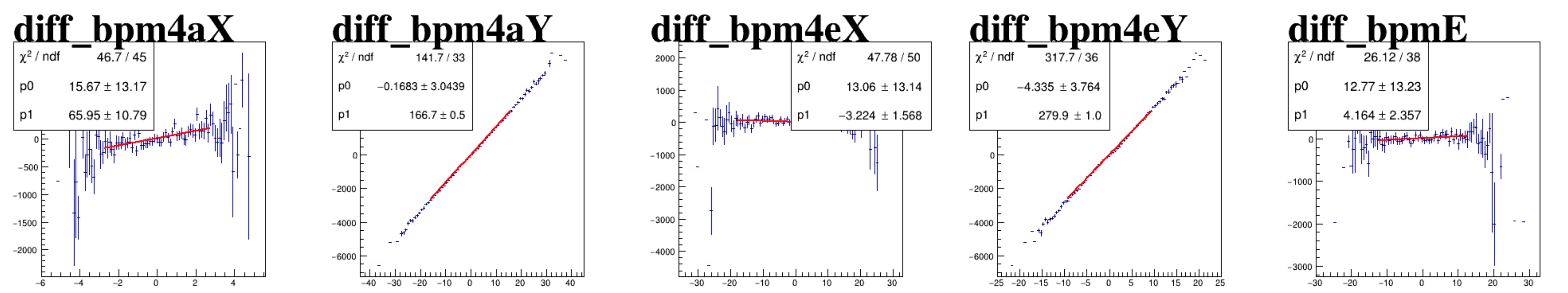
asym_sam1



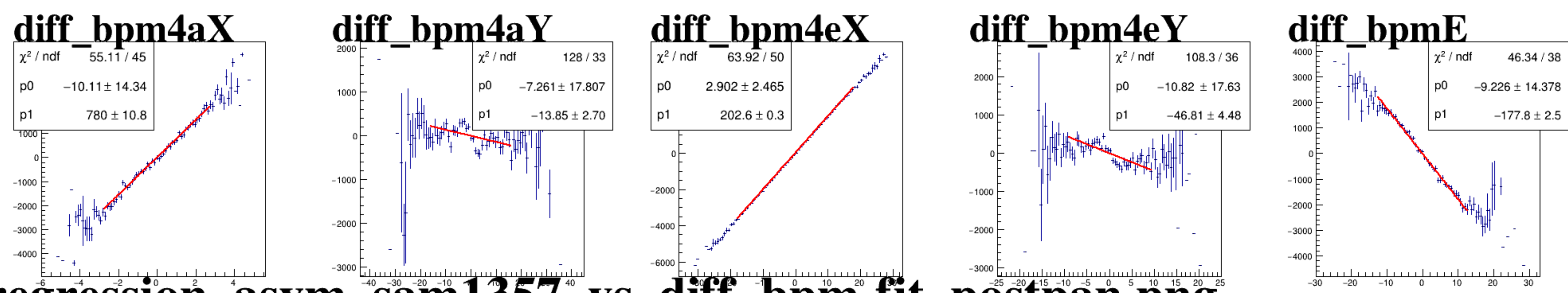
asym_sam3



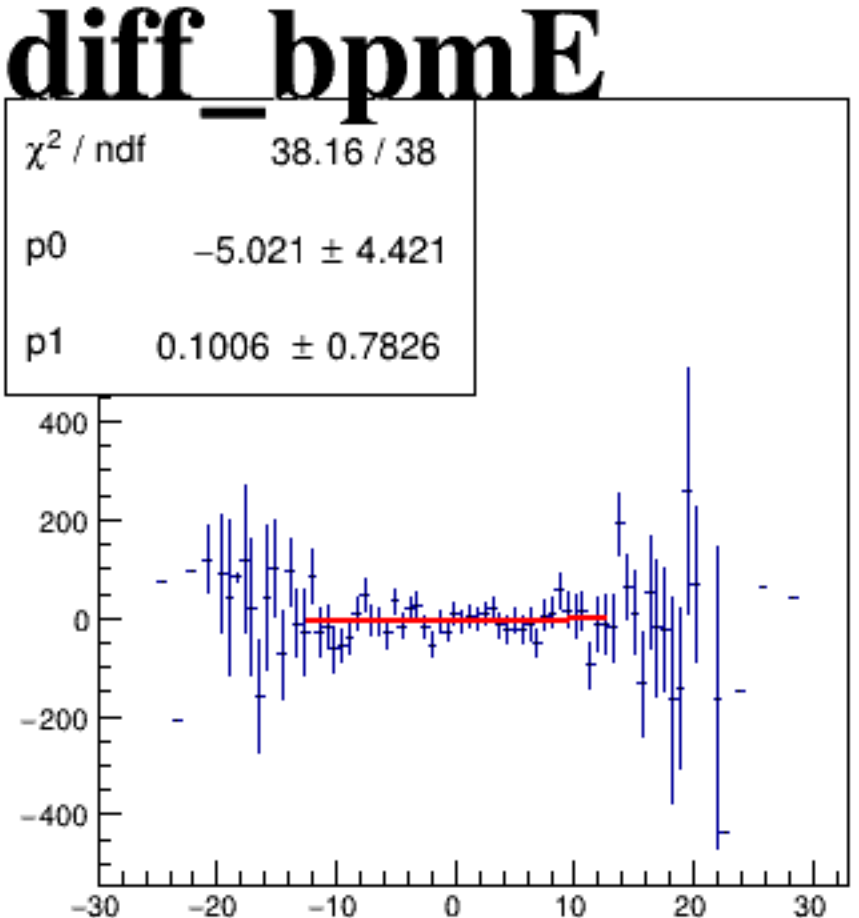
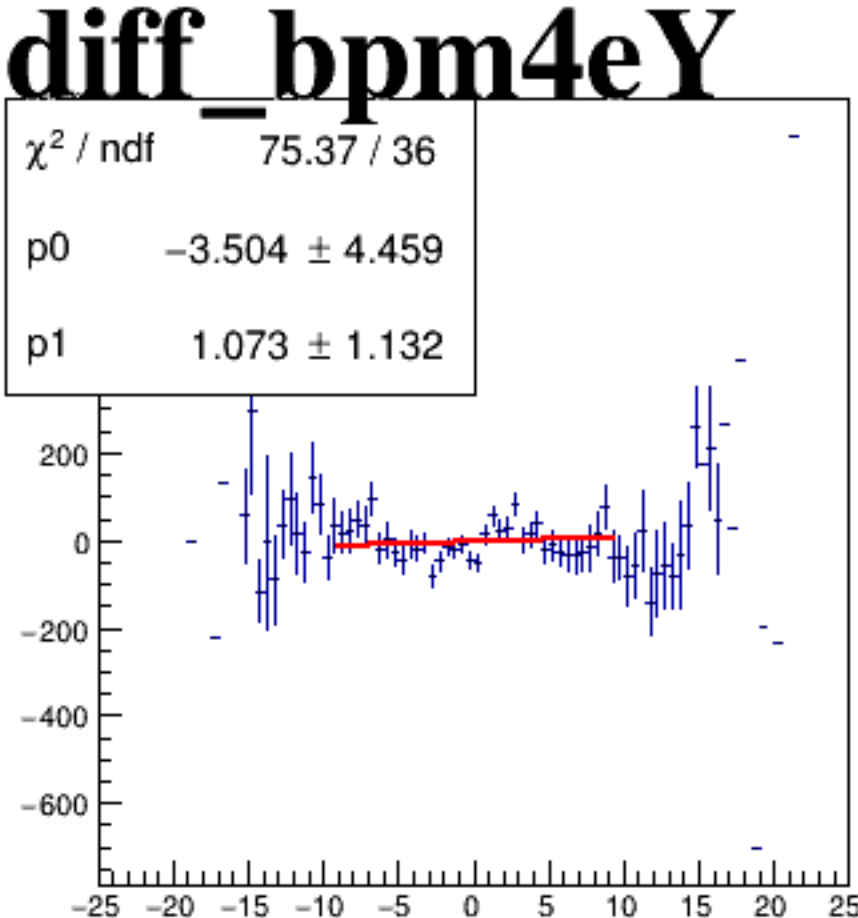
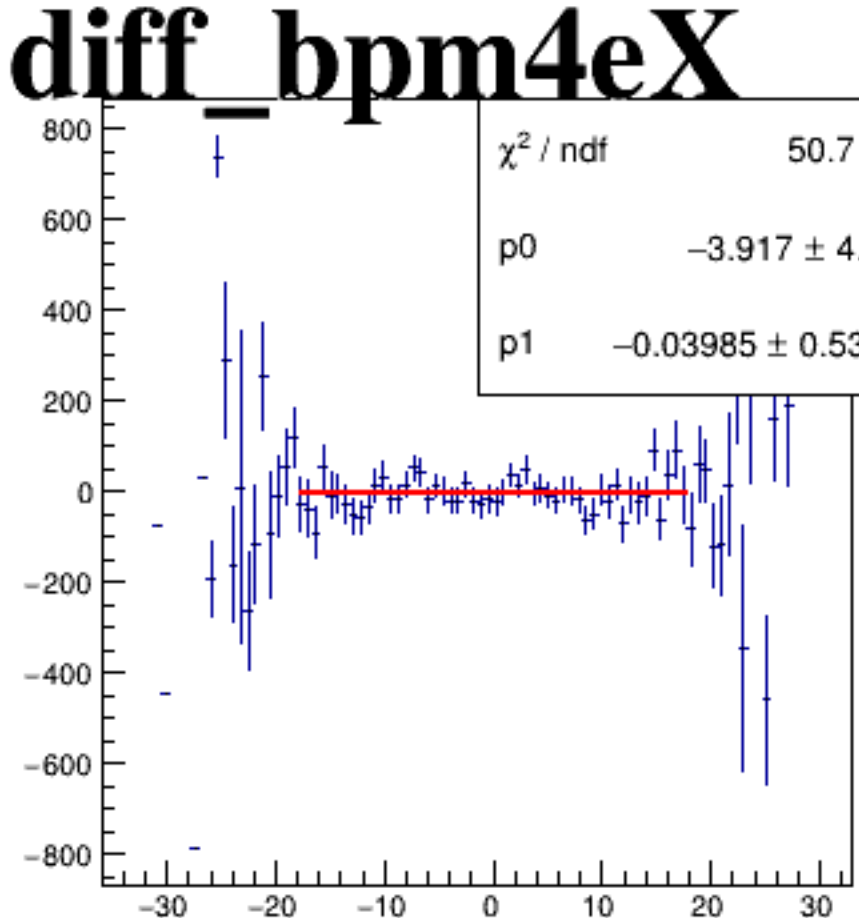
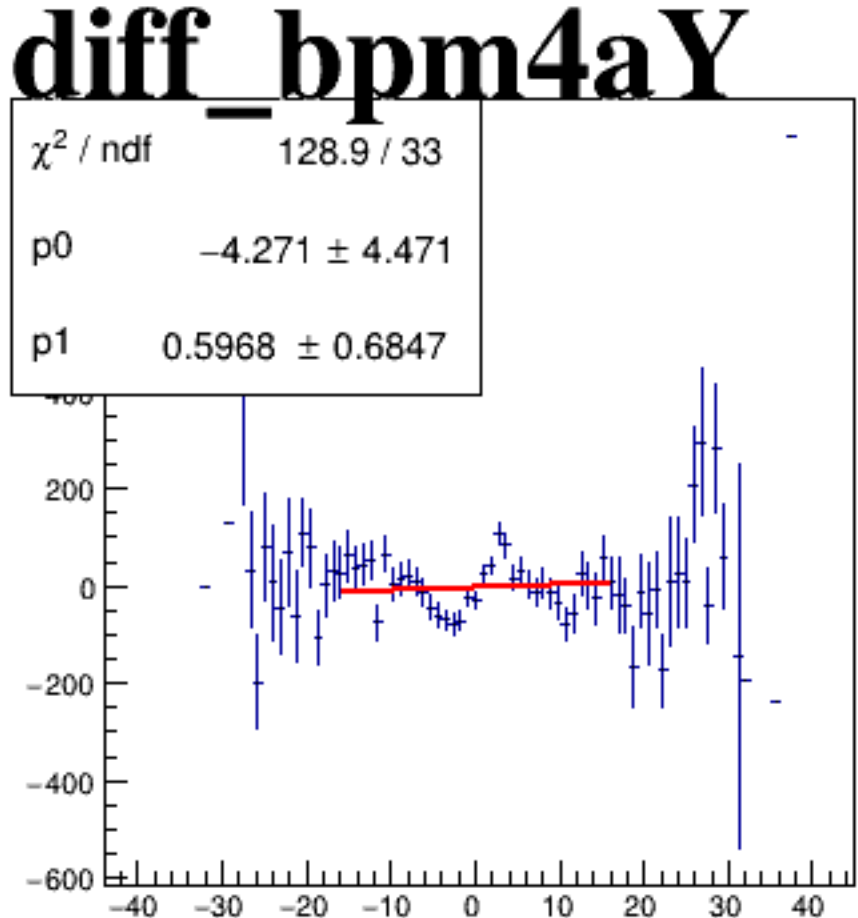
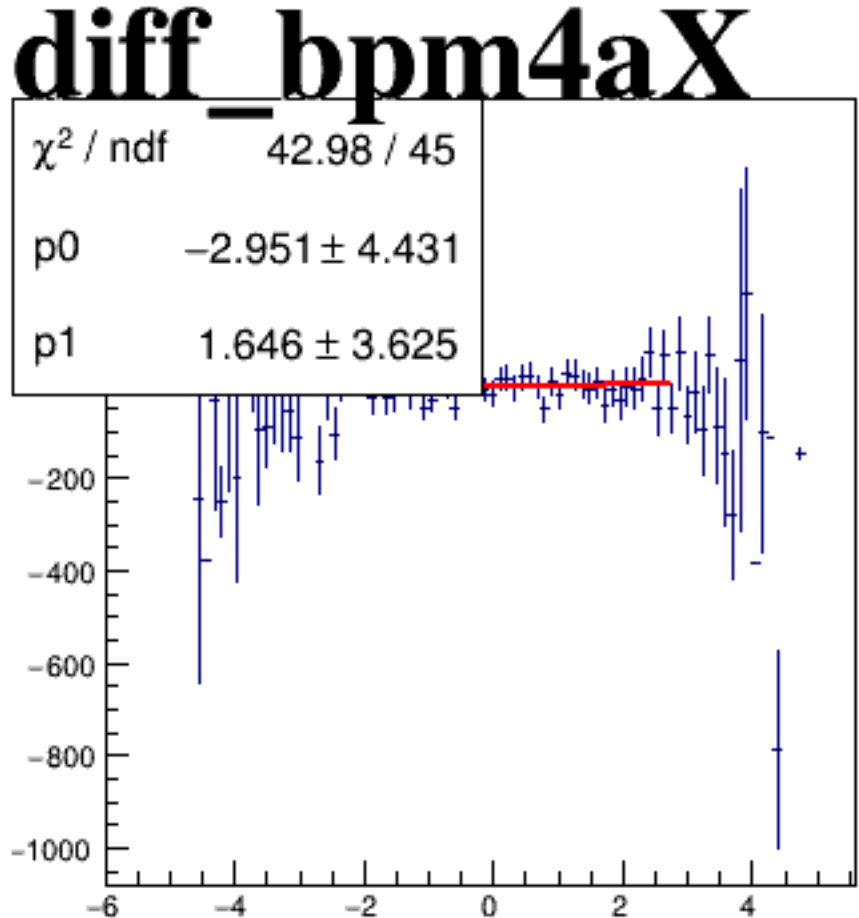
asym_sam5



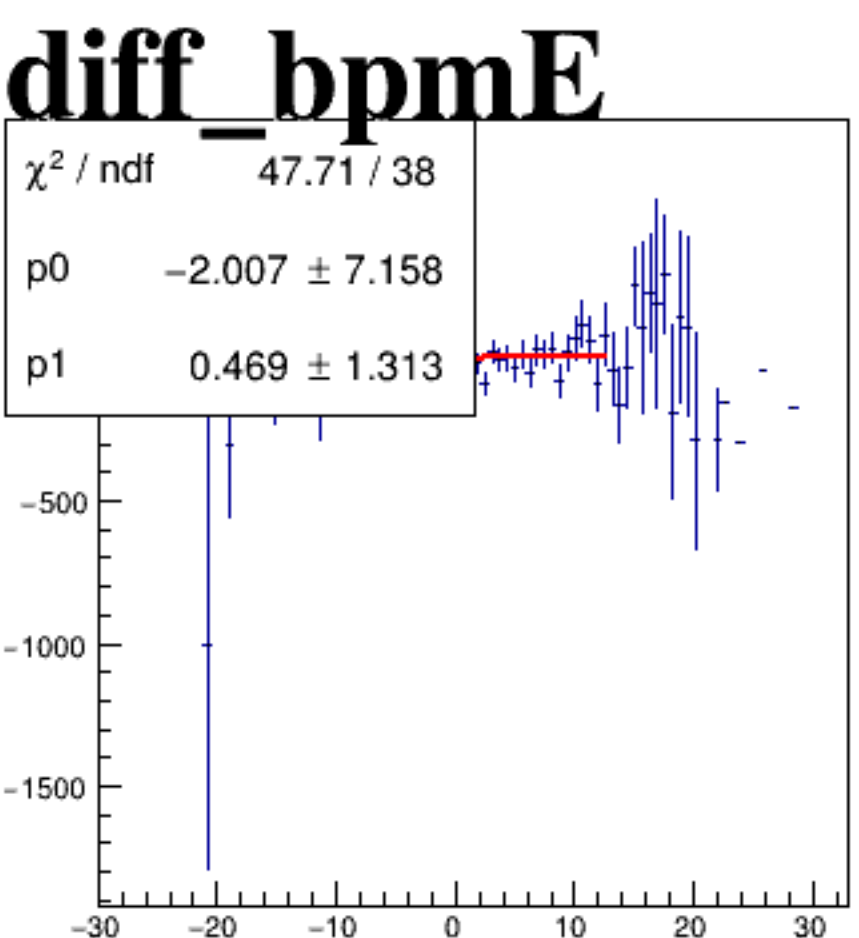
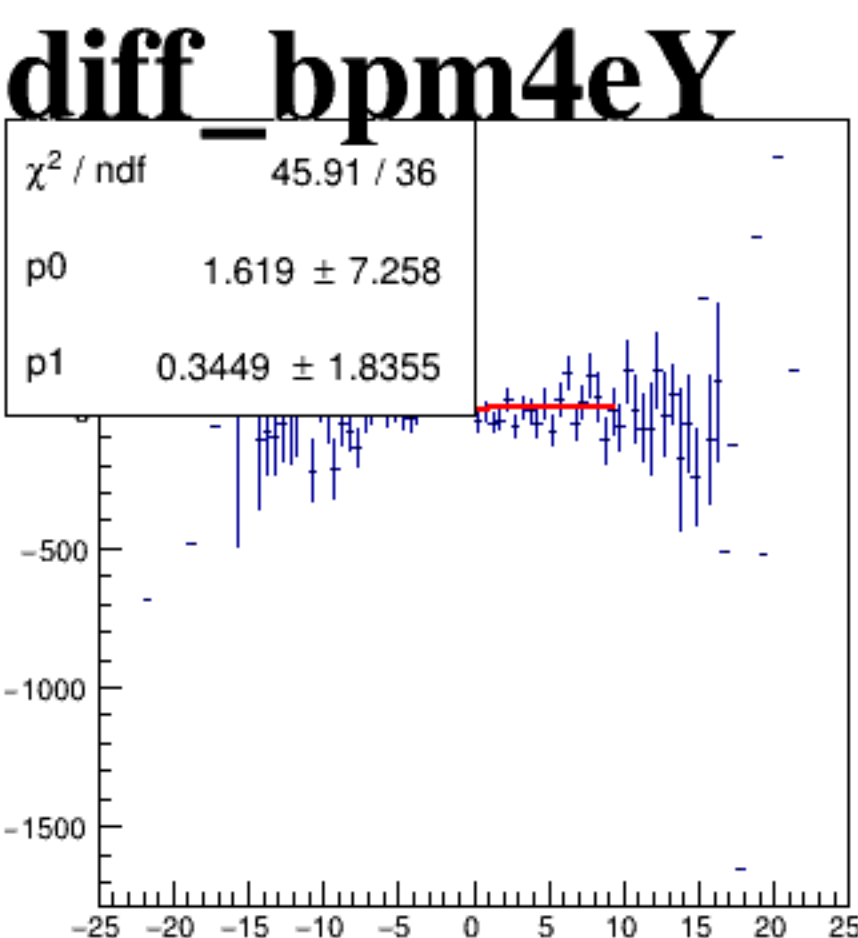
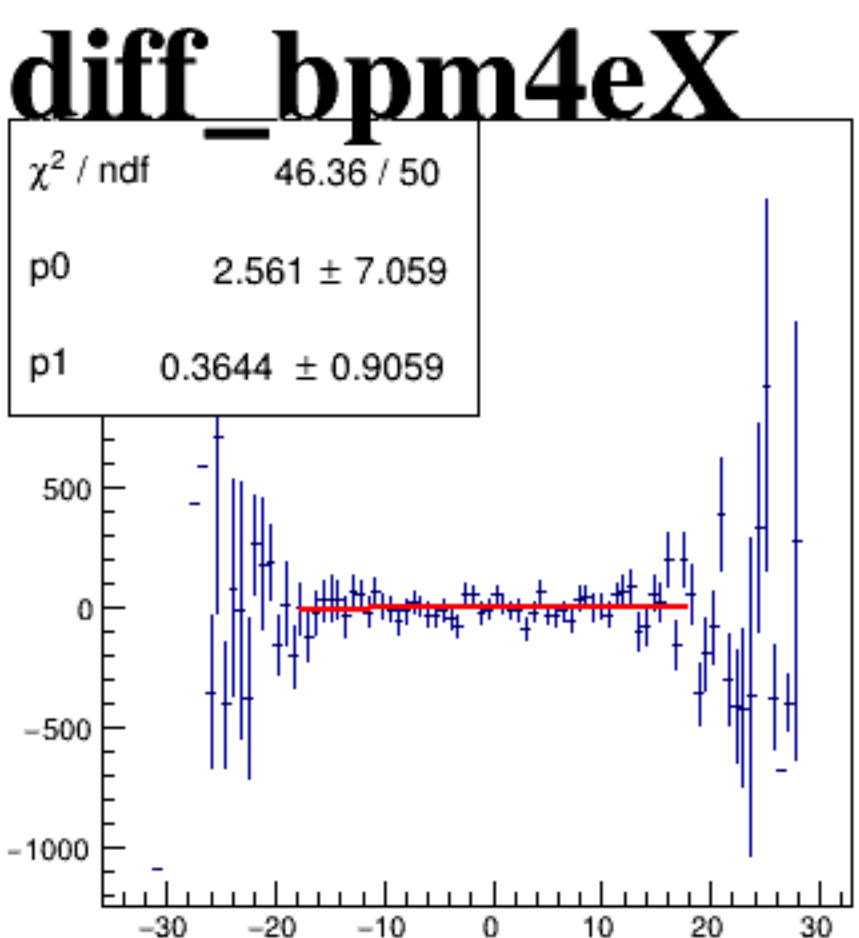
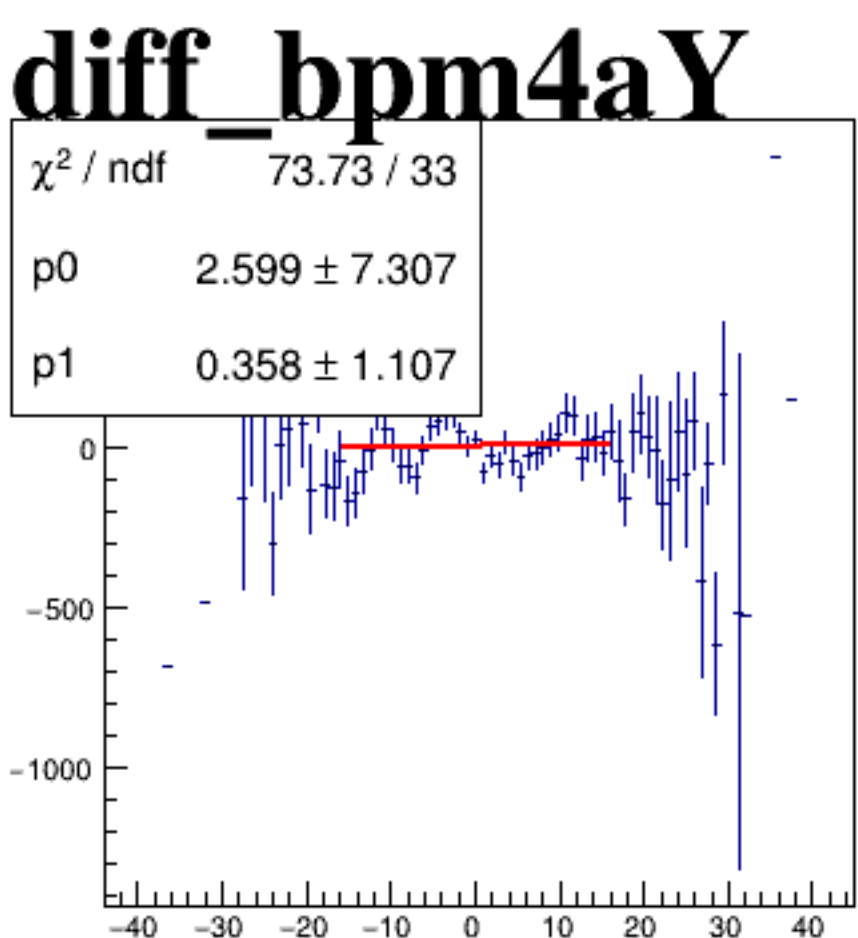
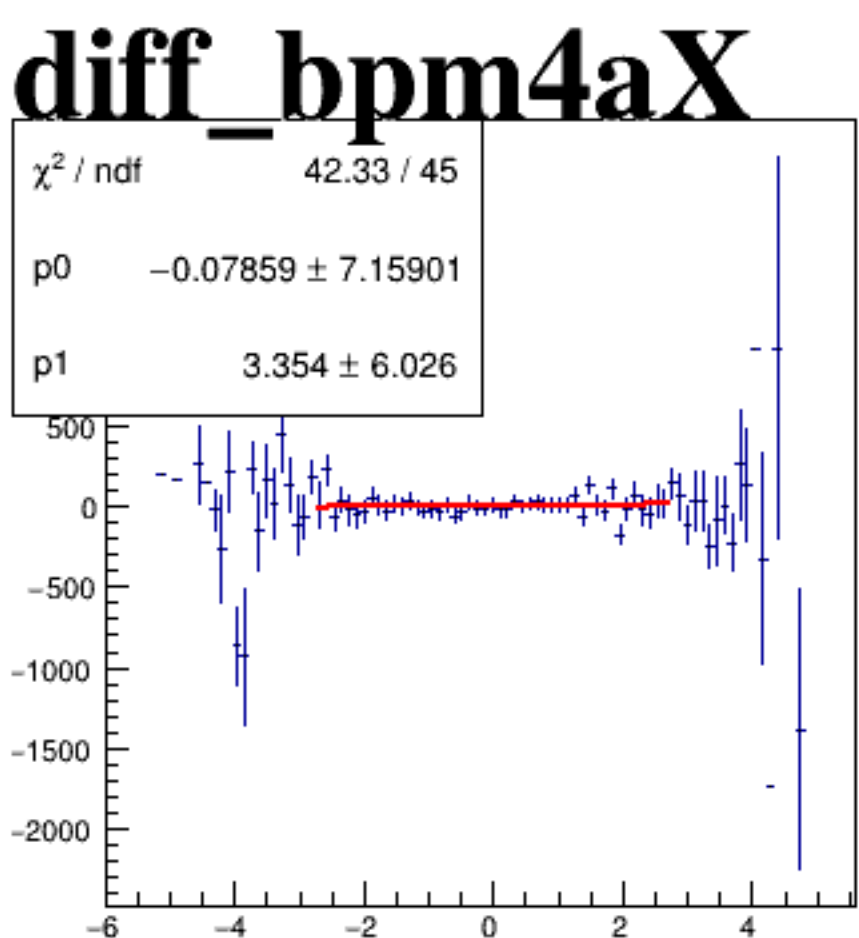
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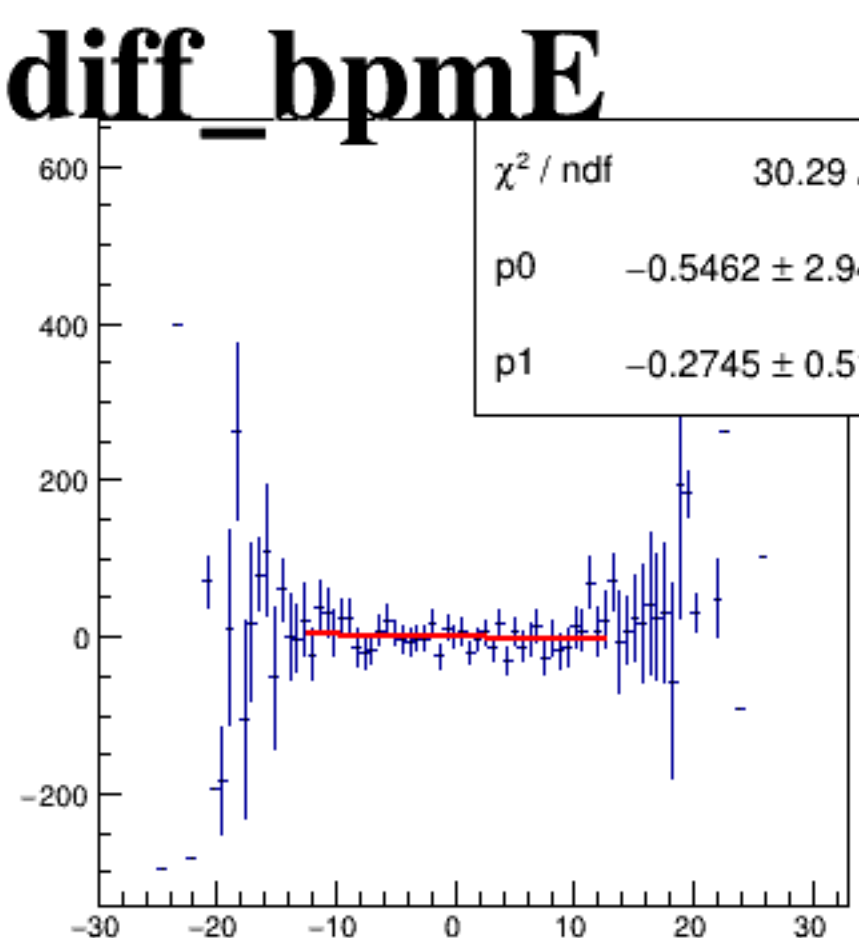
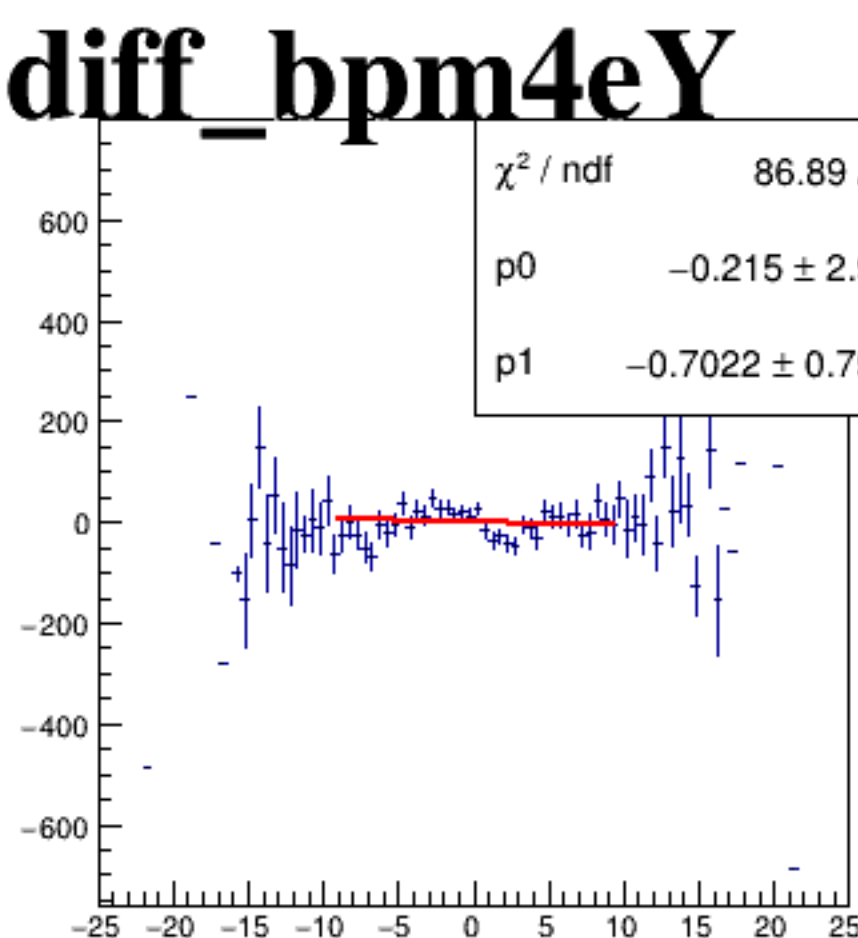
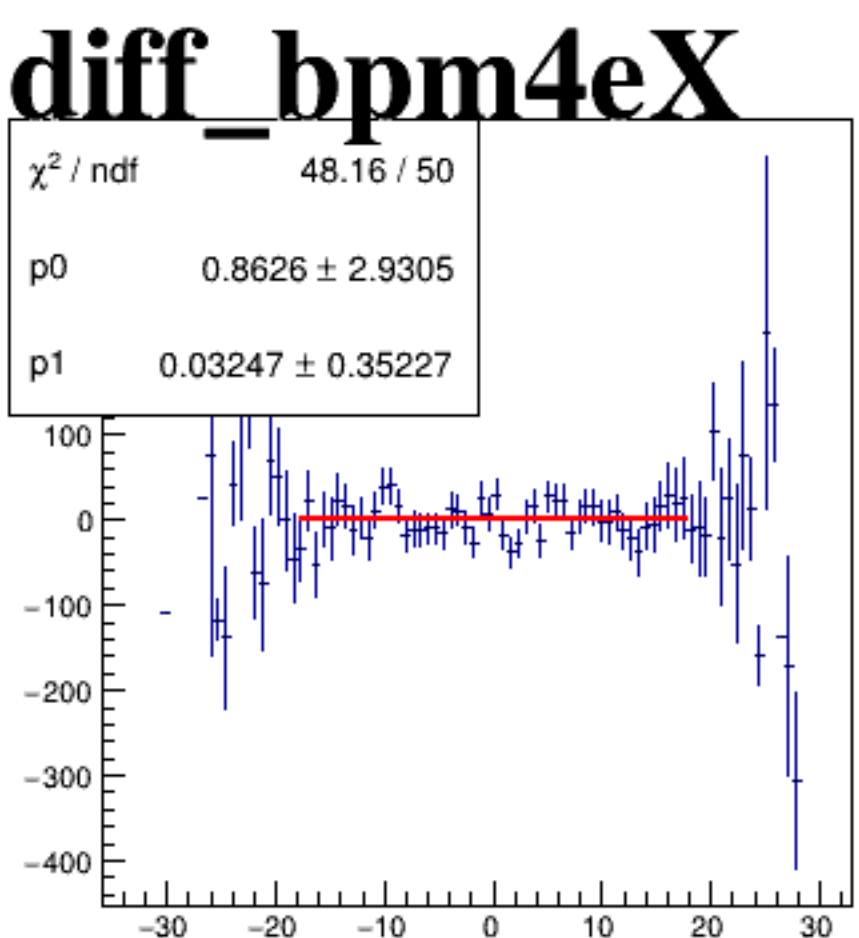
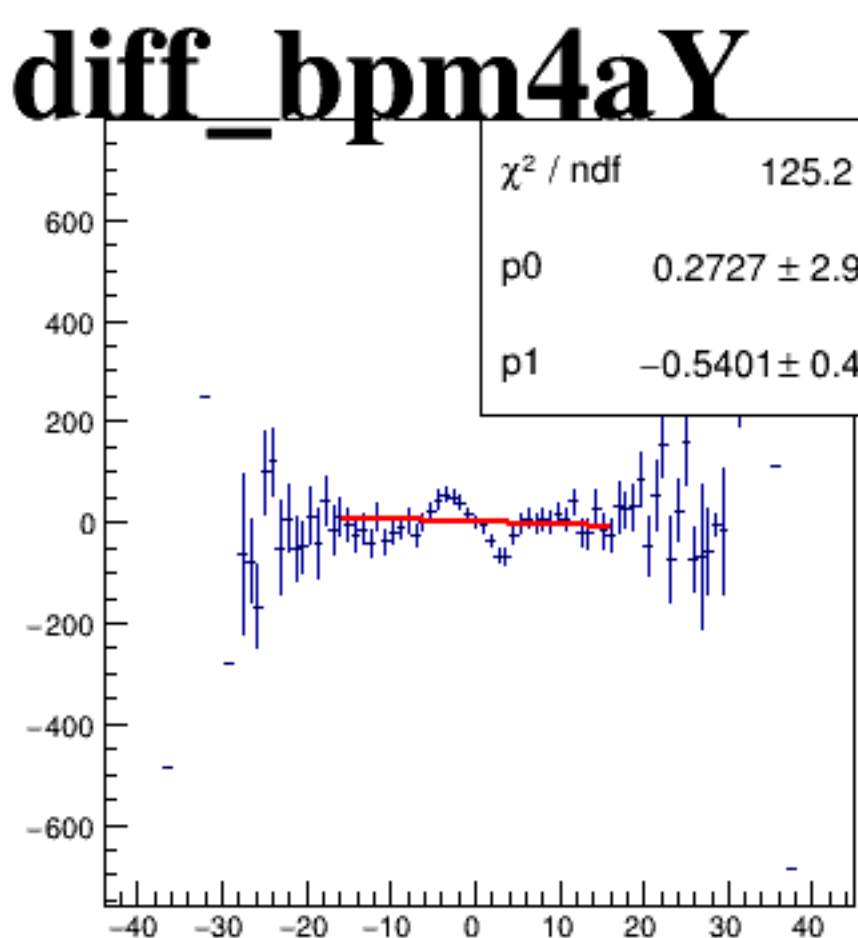
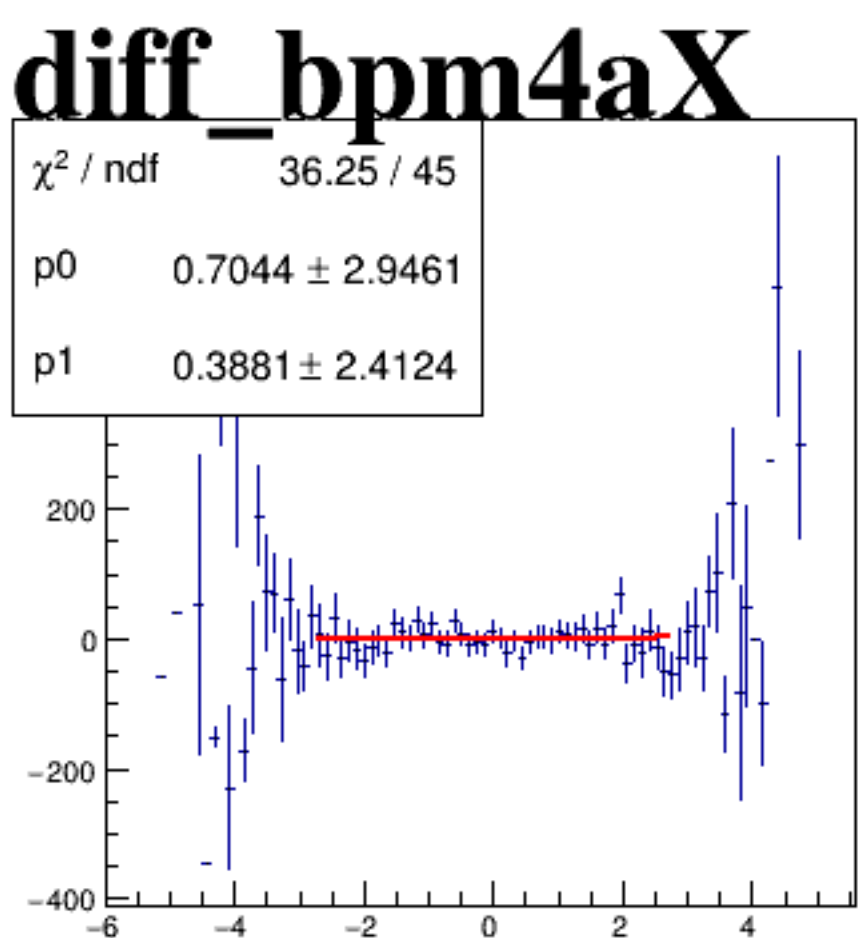
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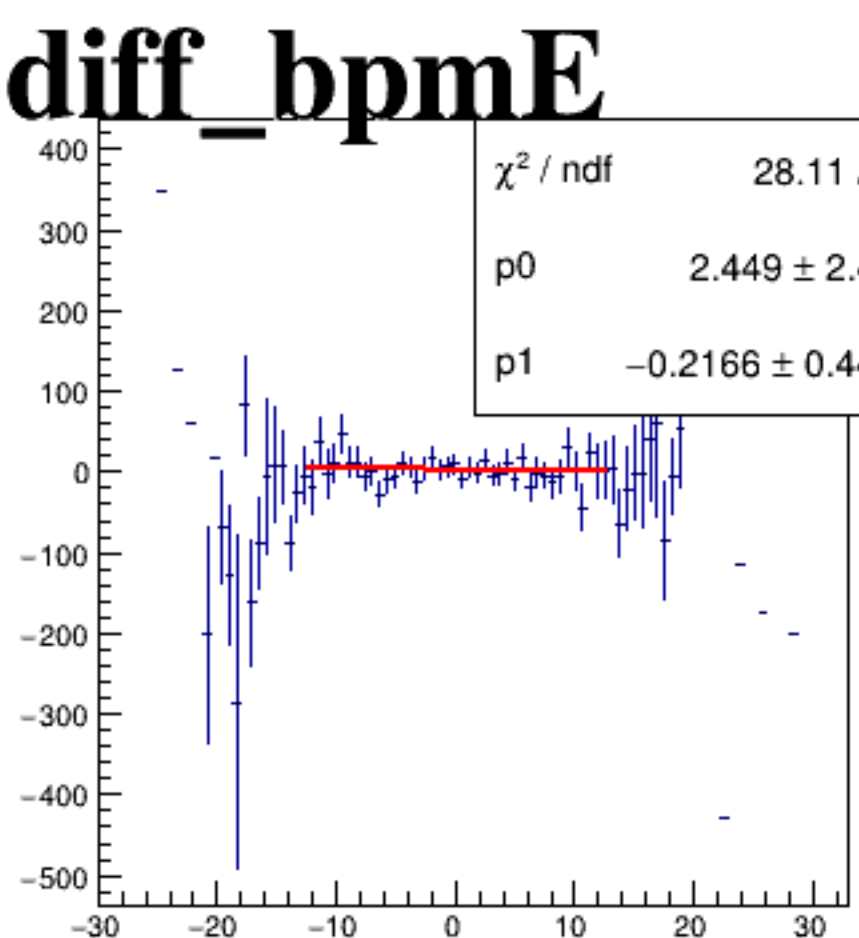
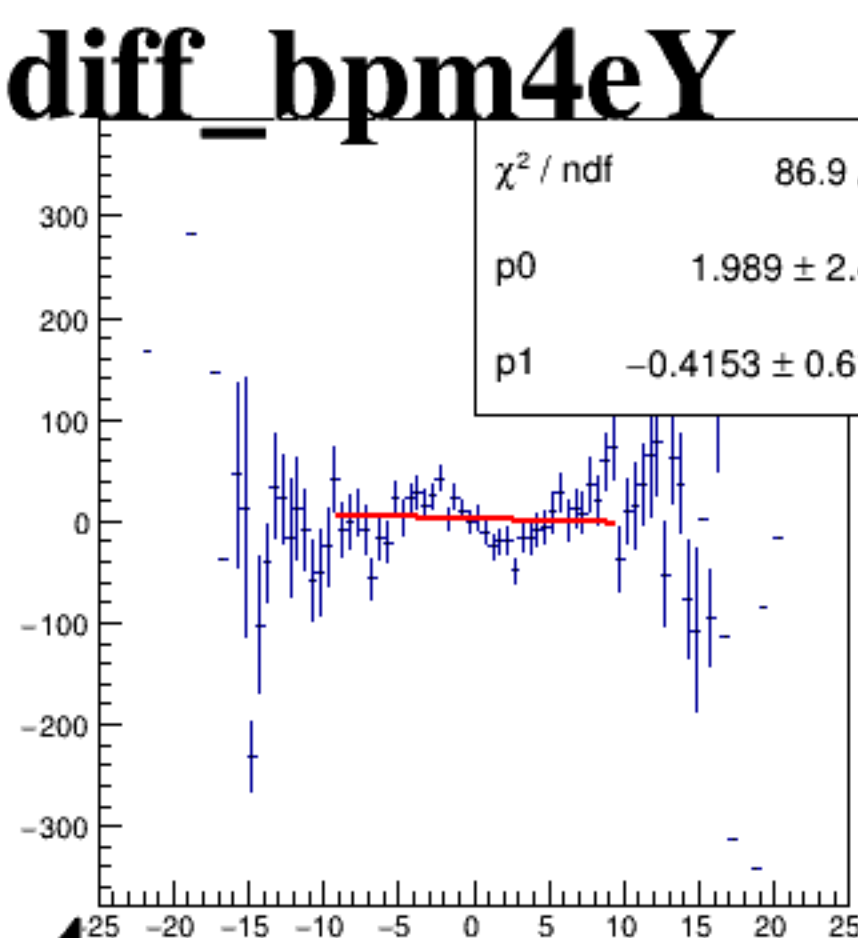
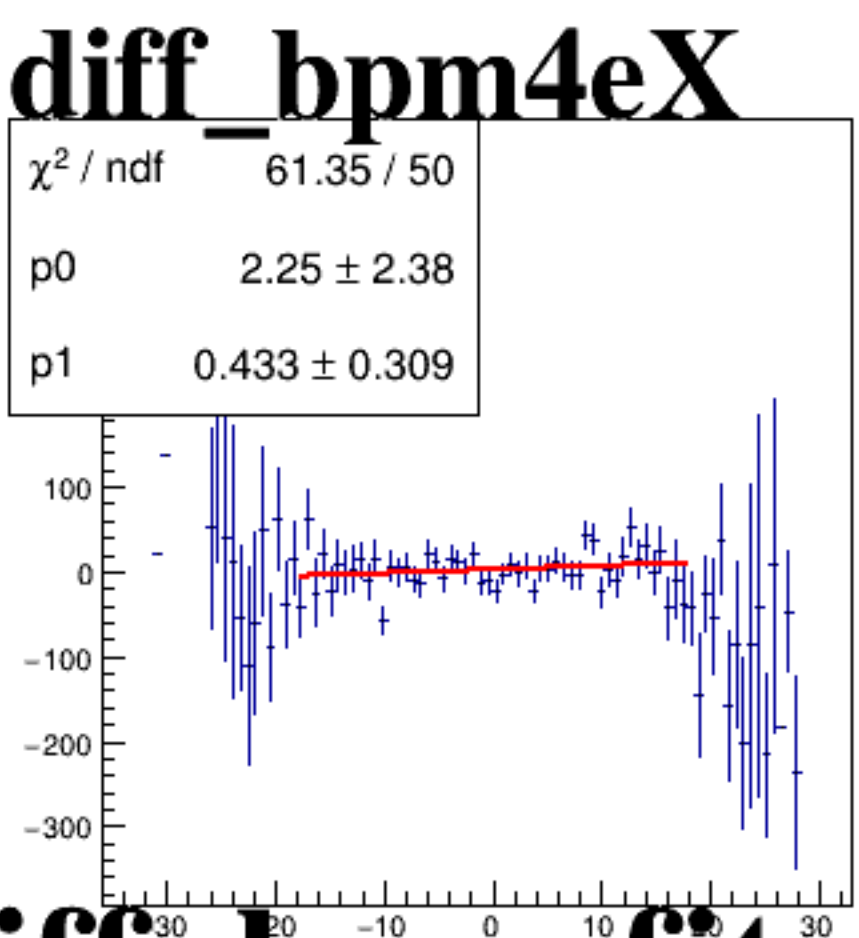
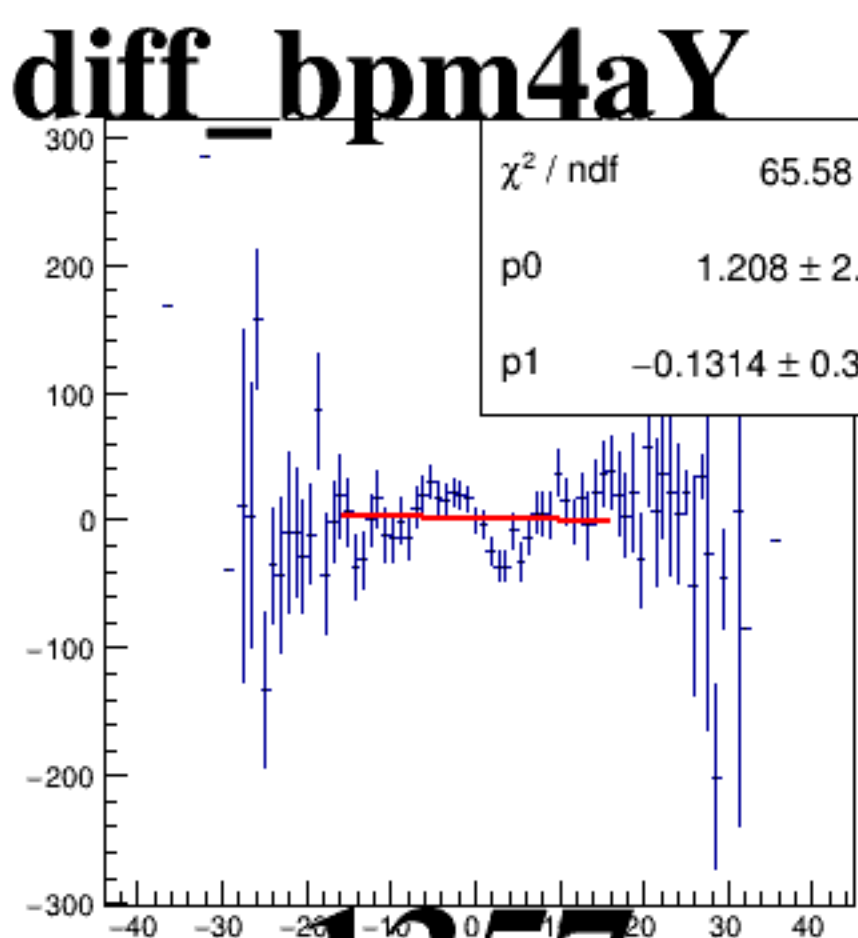
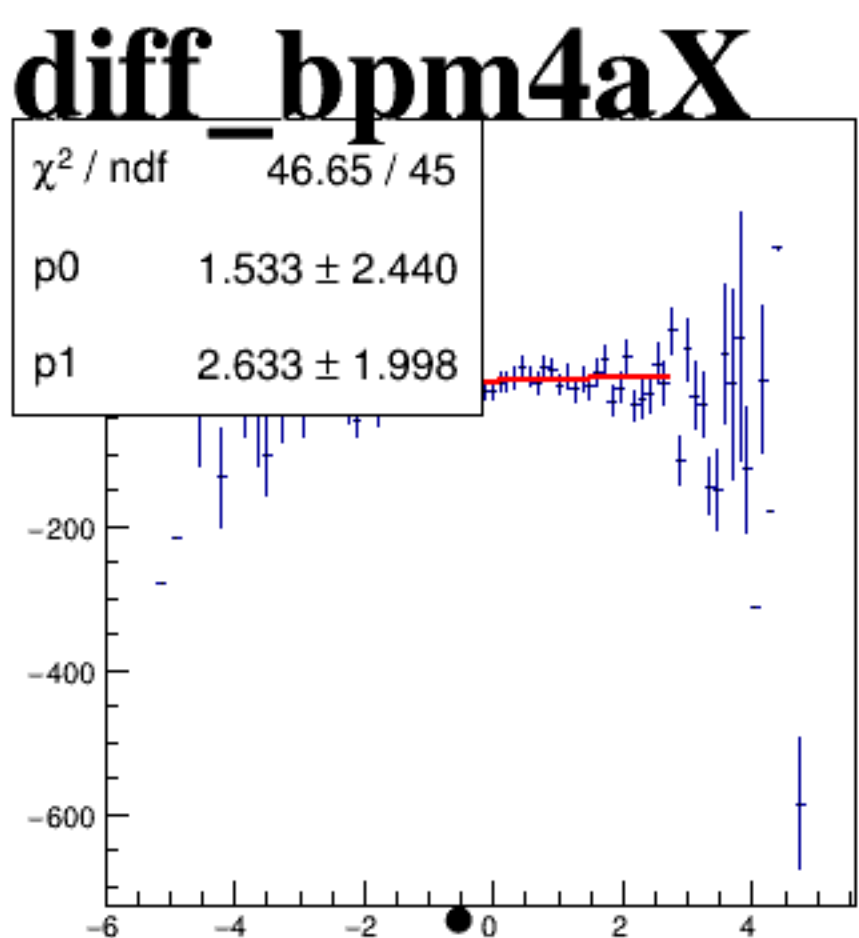
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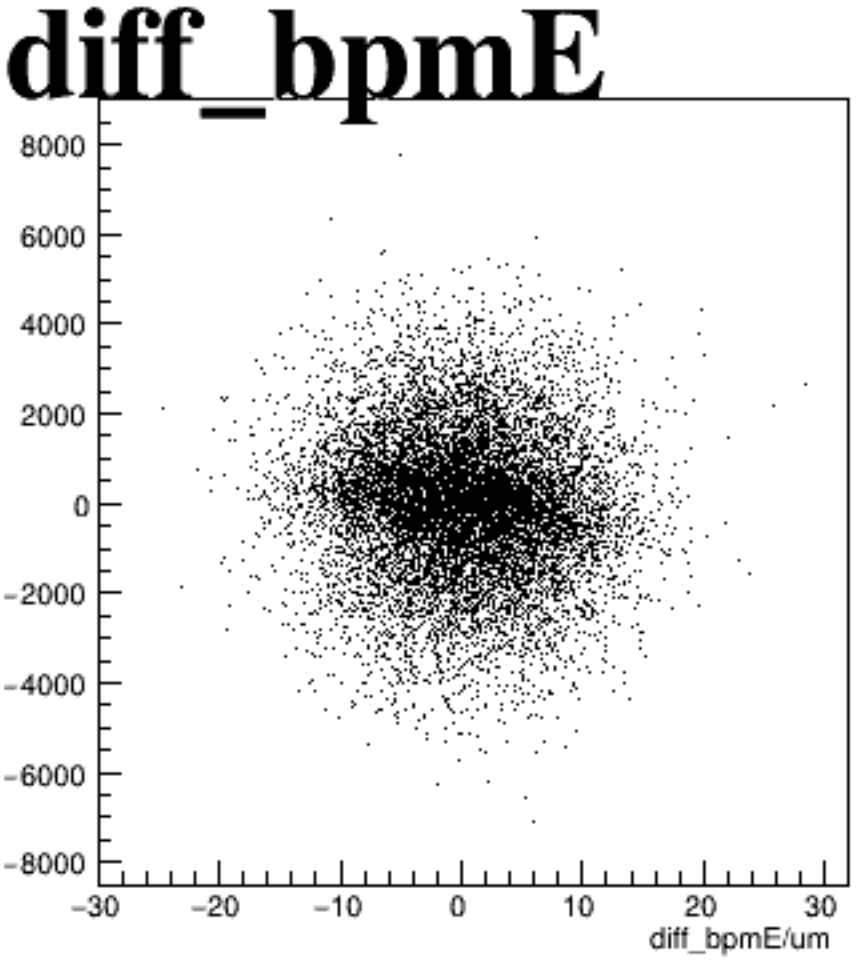
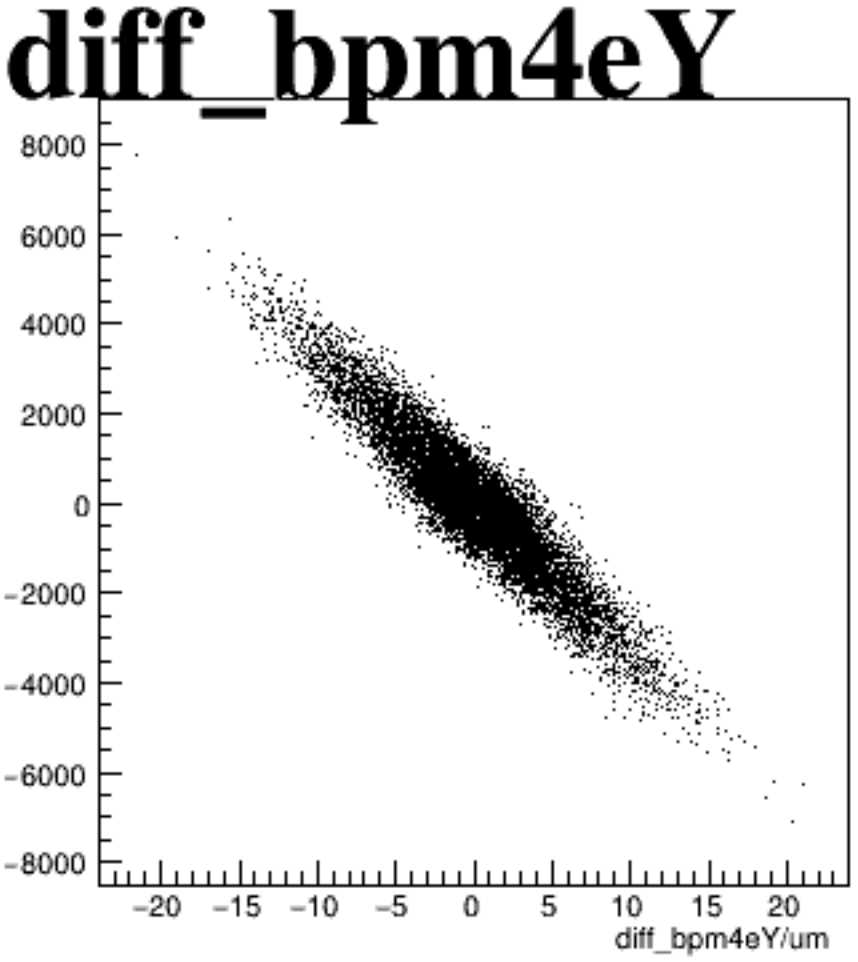
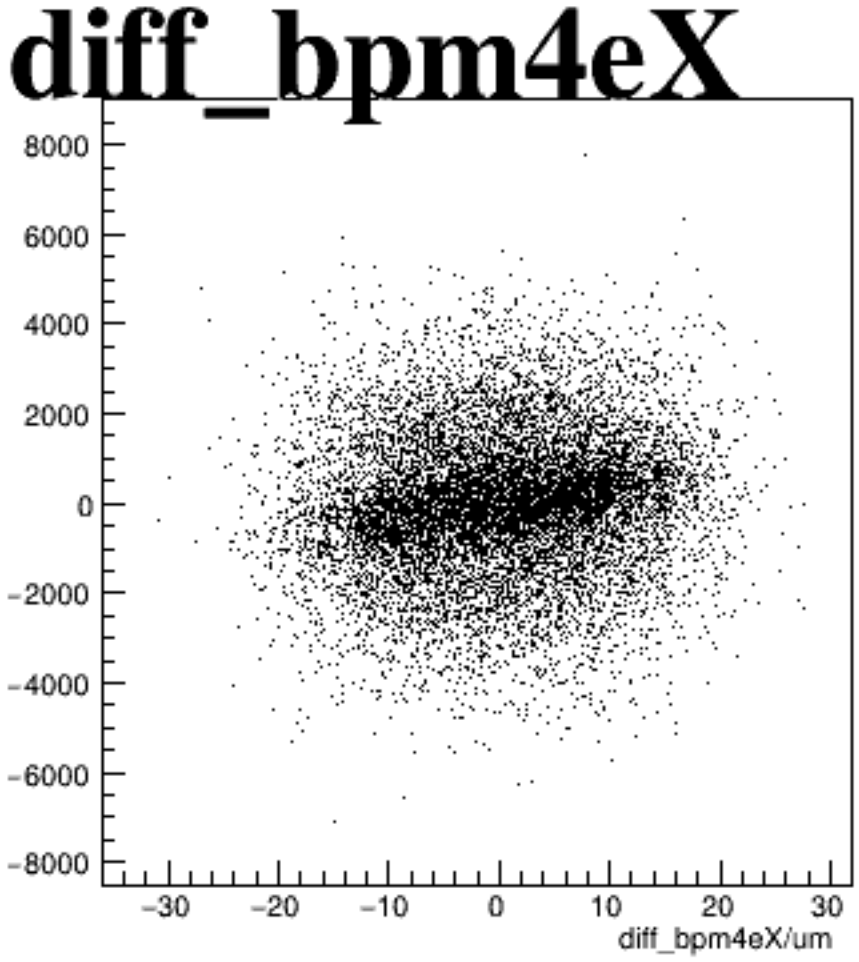
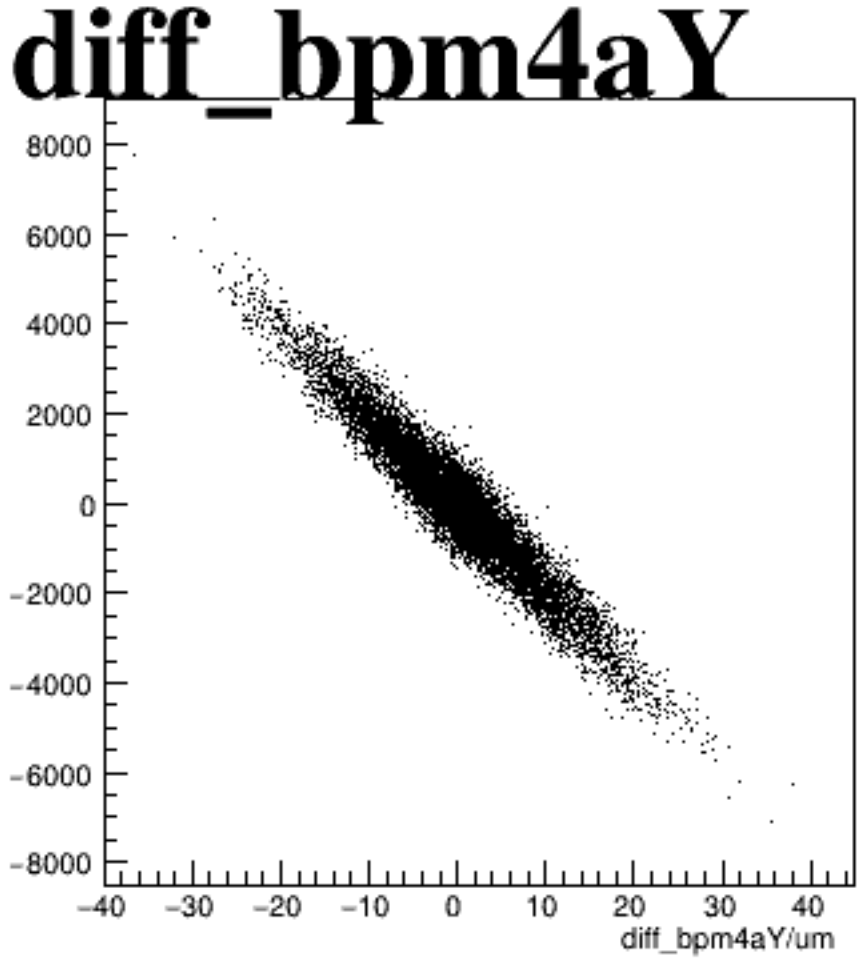
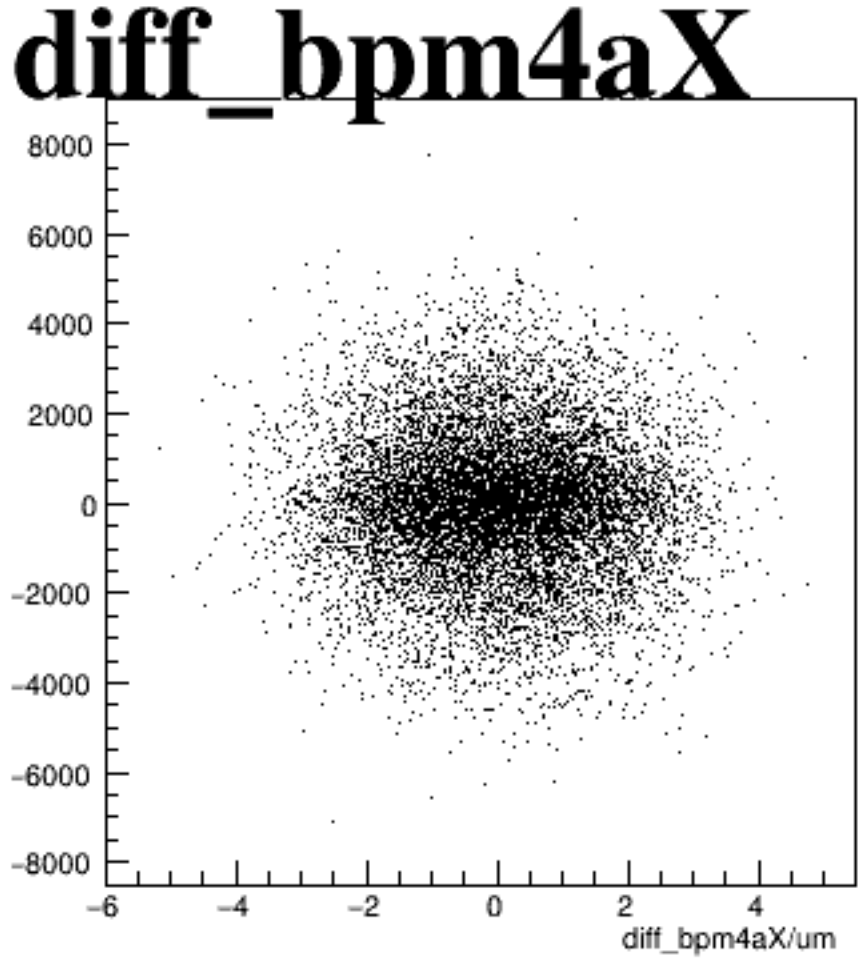
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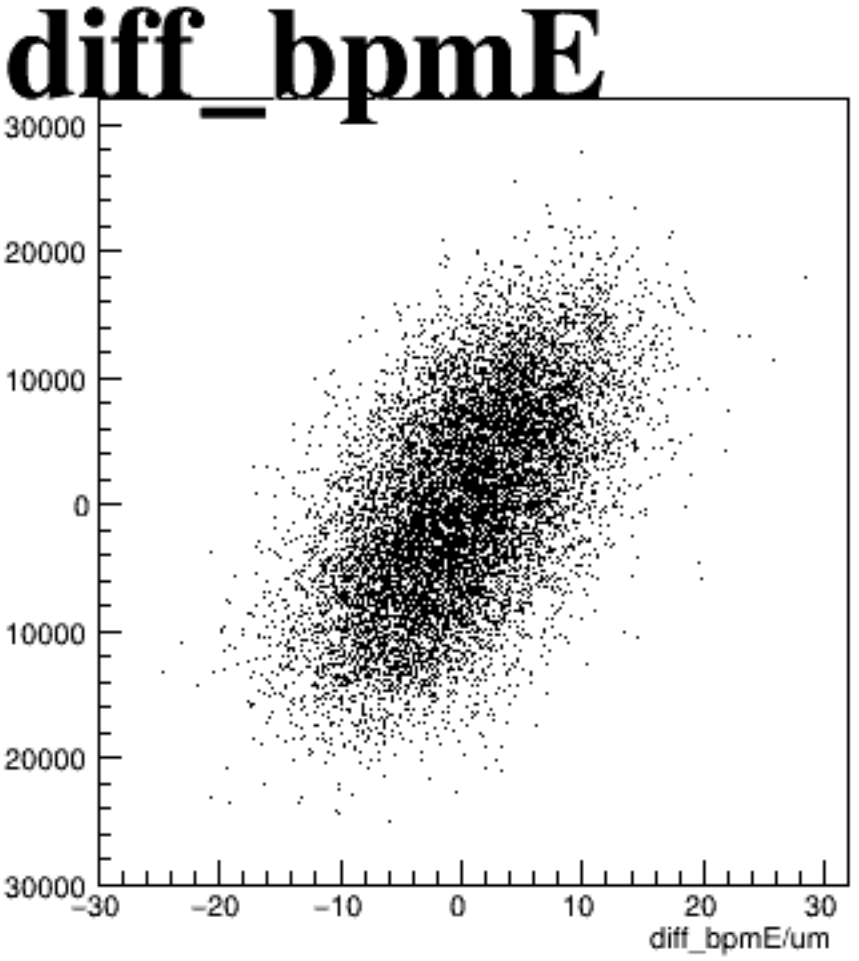
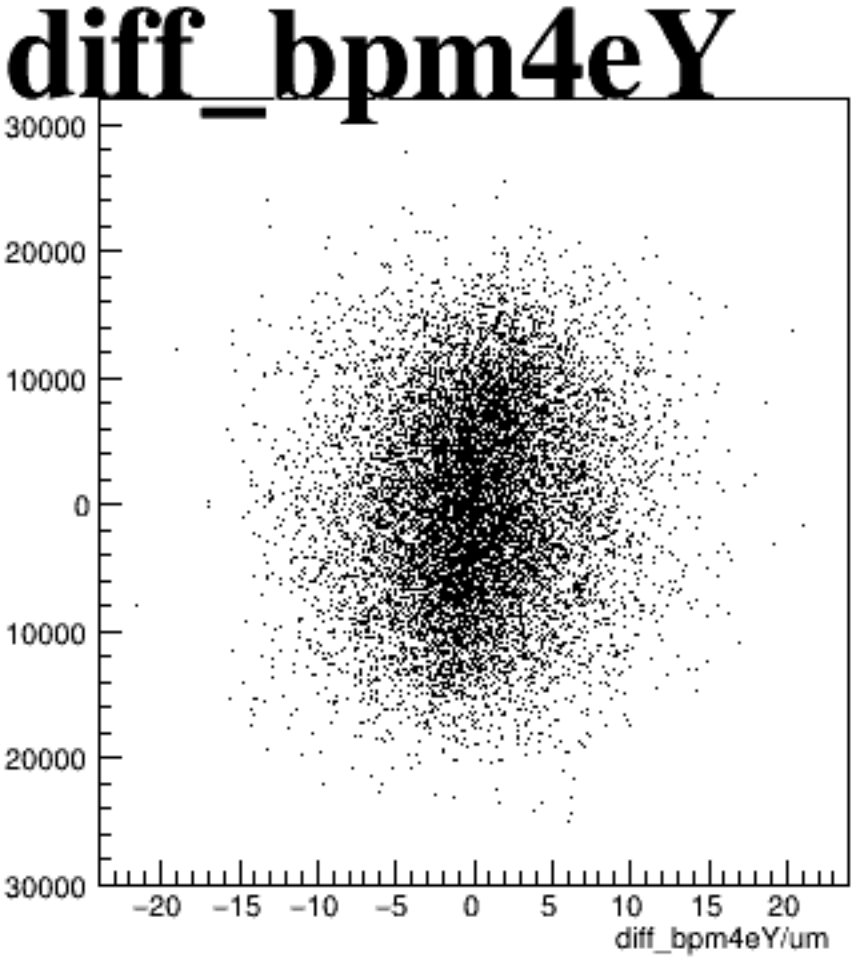
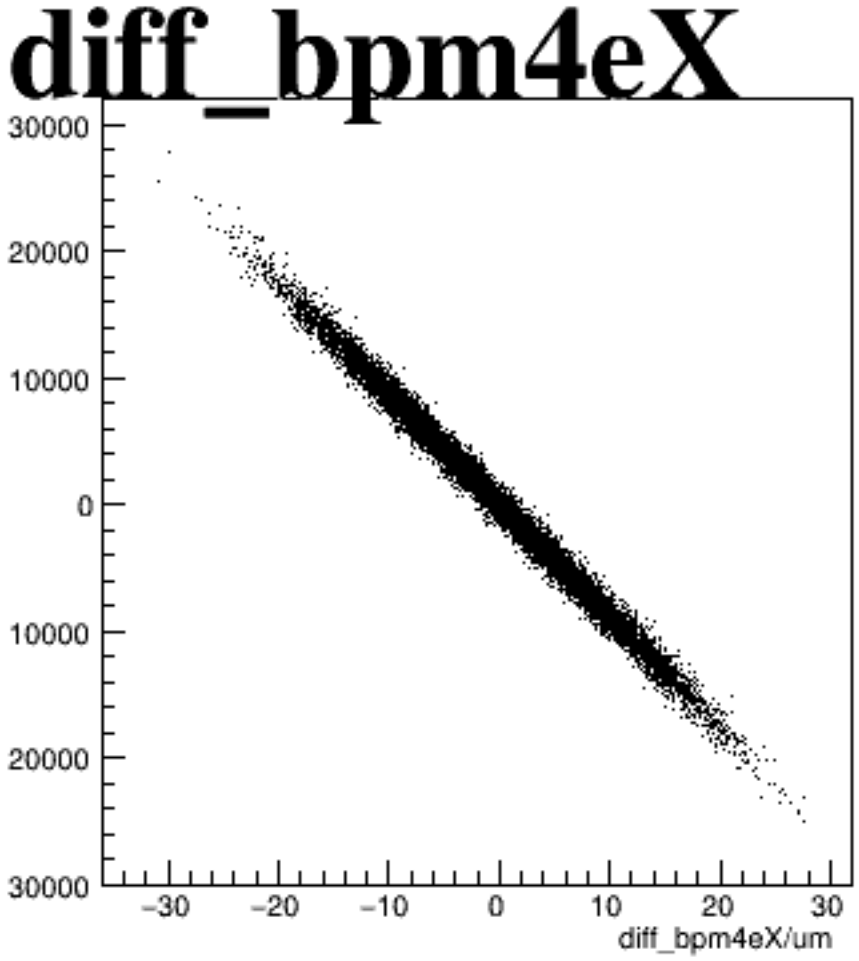
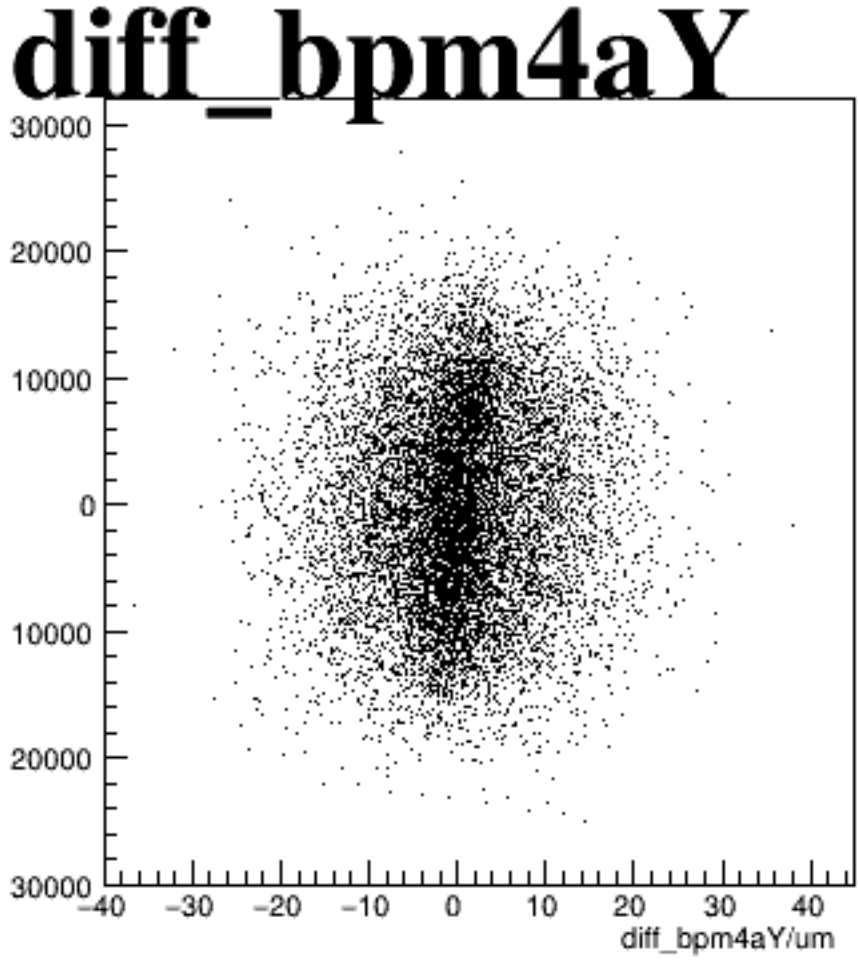
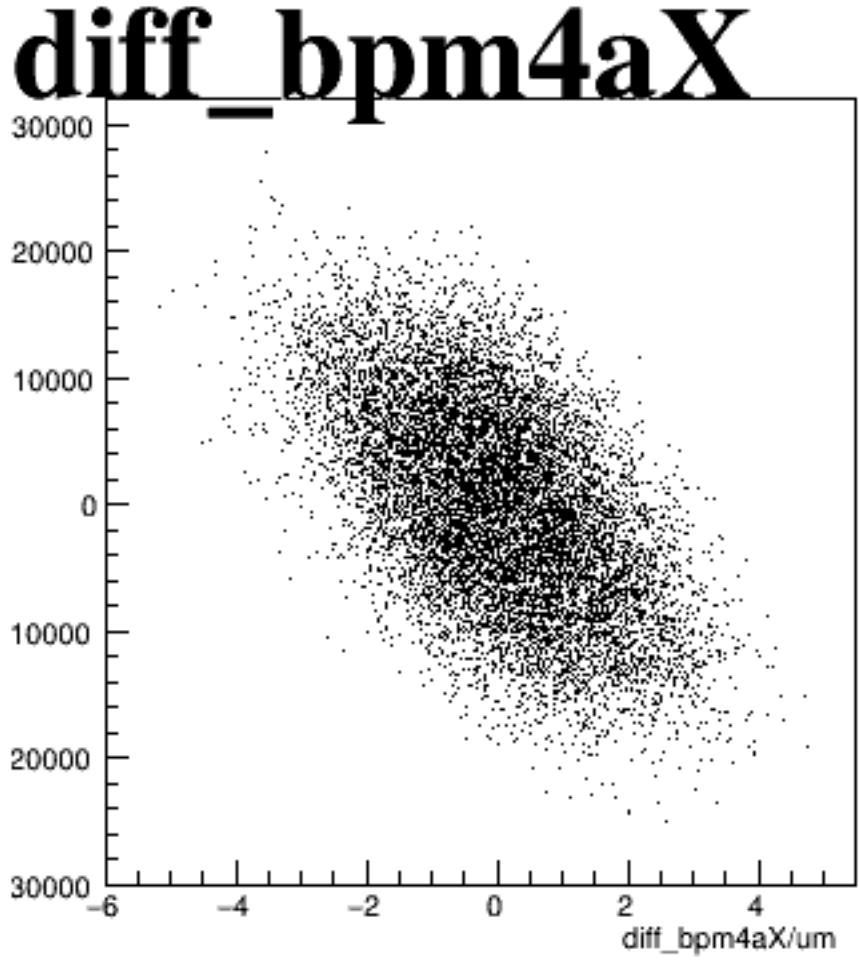
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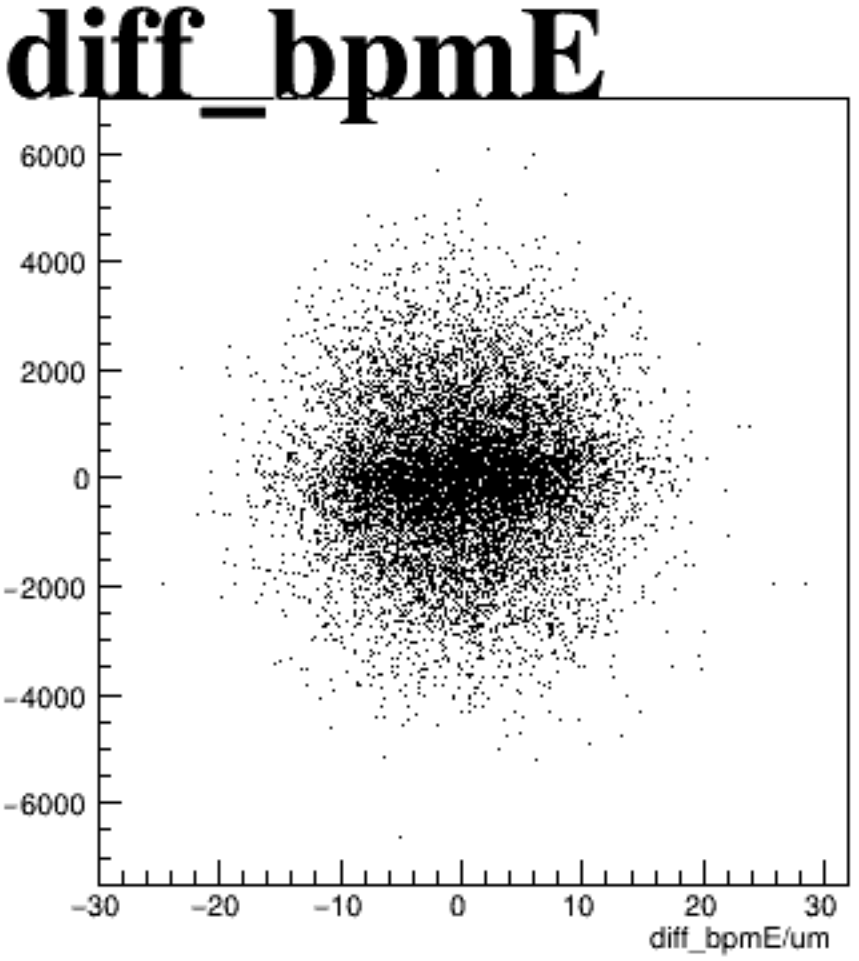
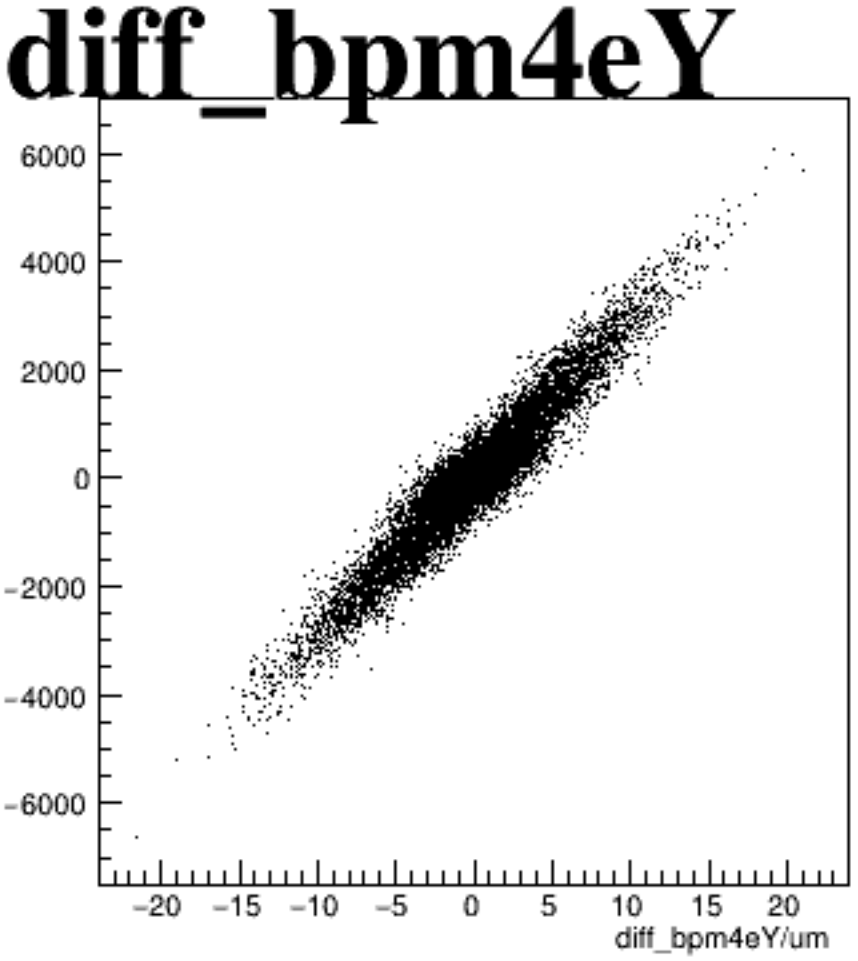
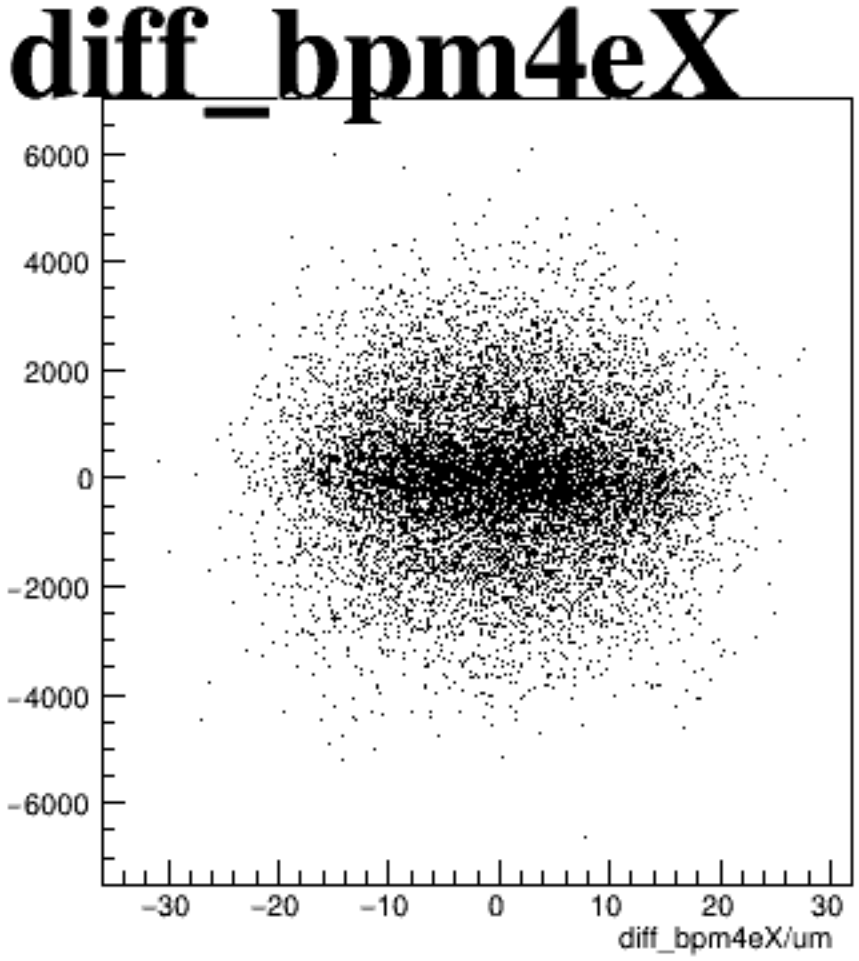
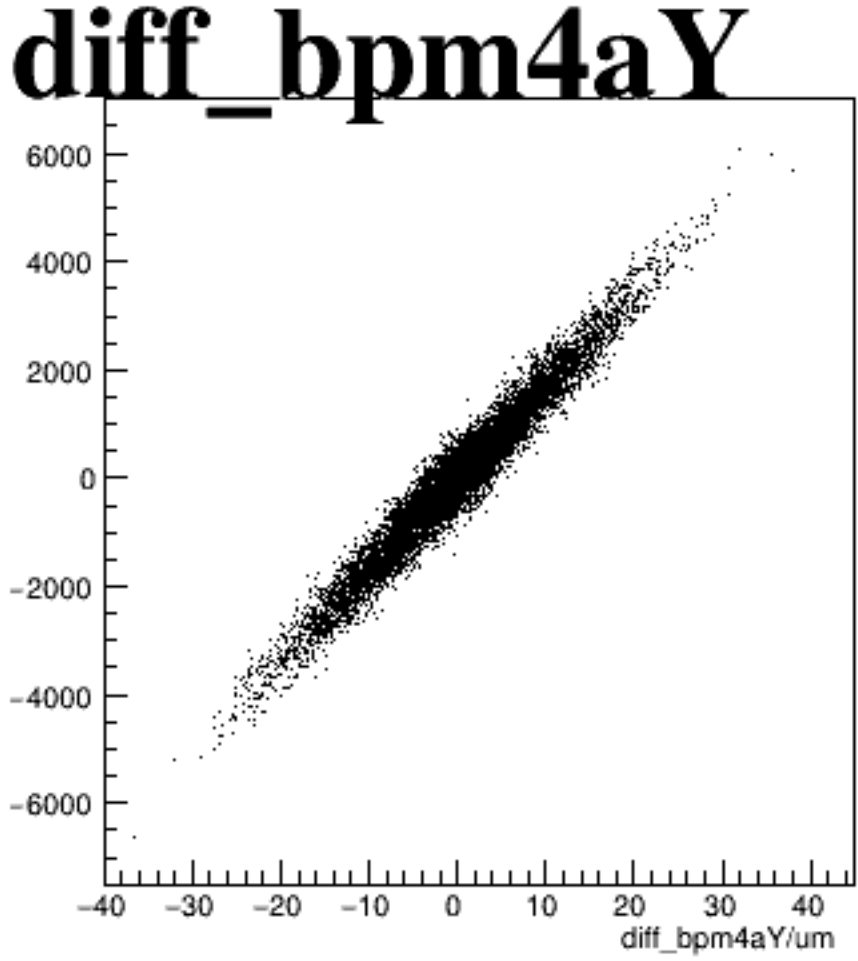
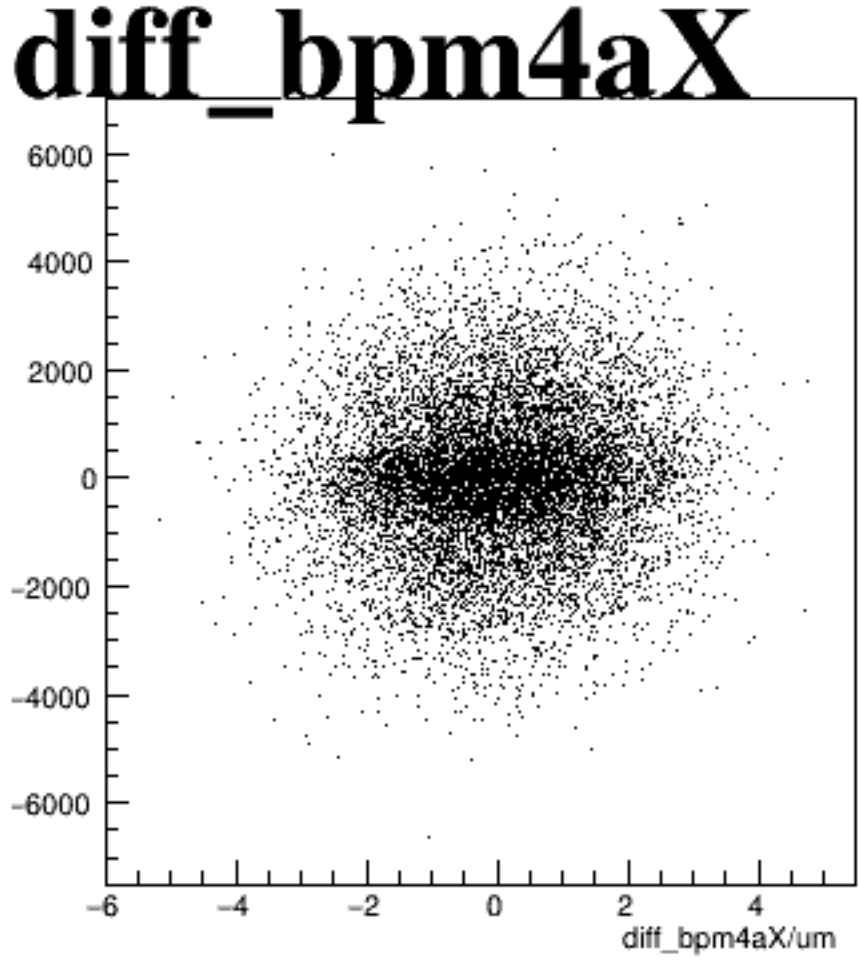
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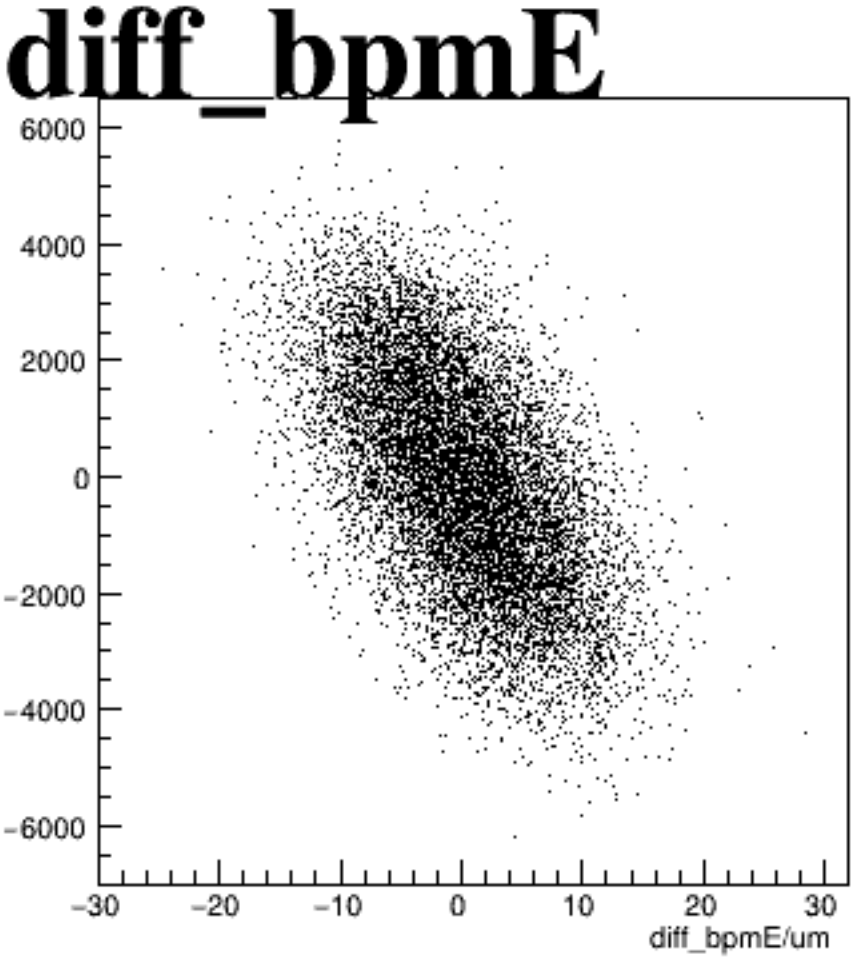
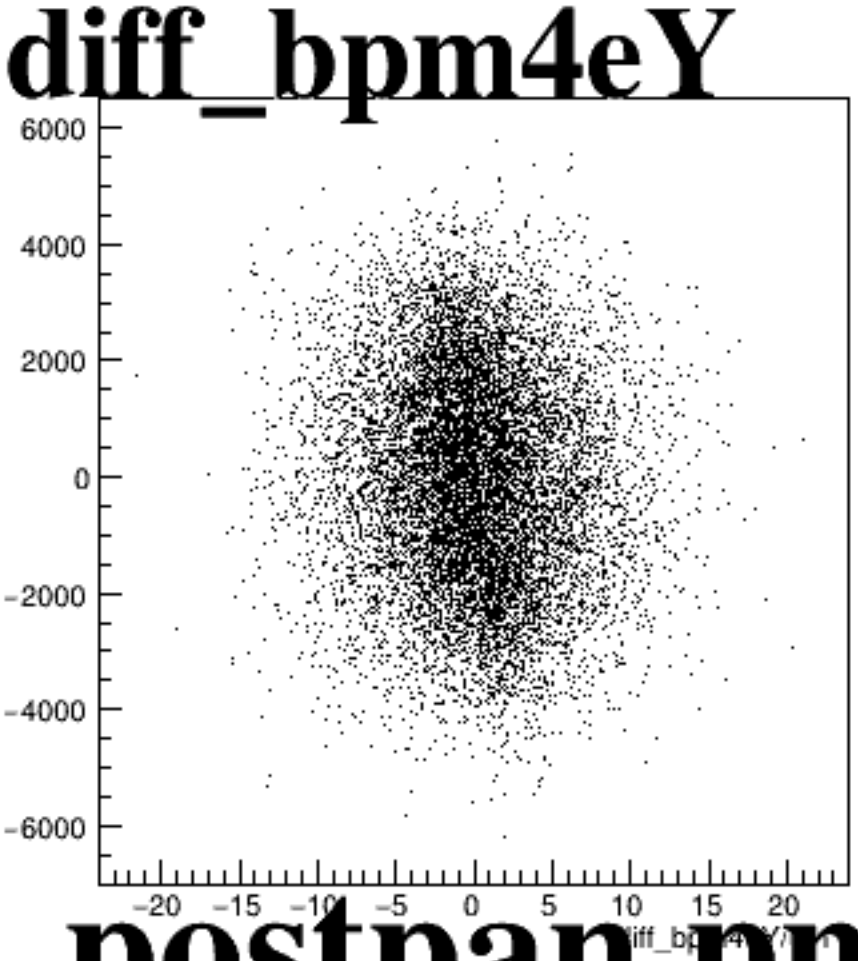
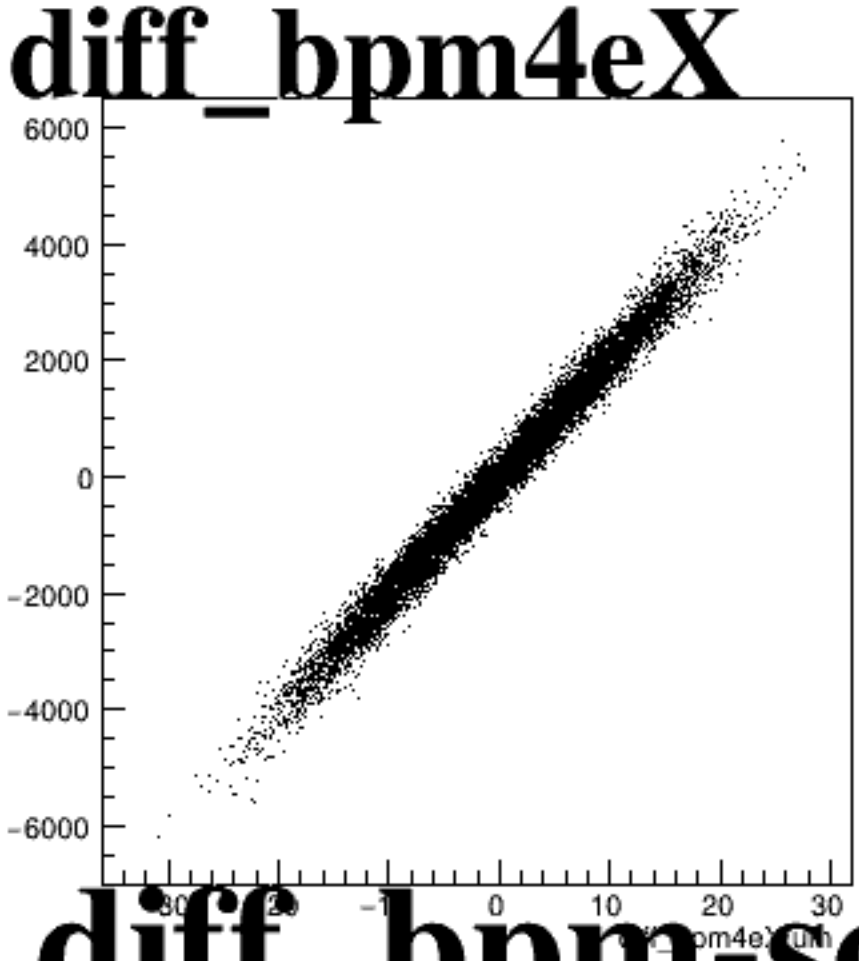
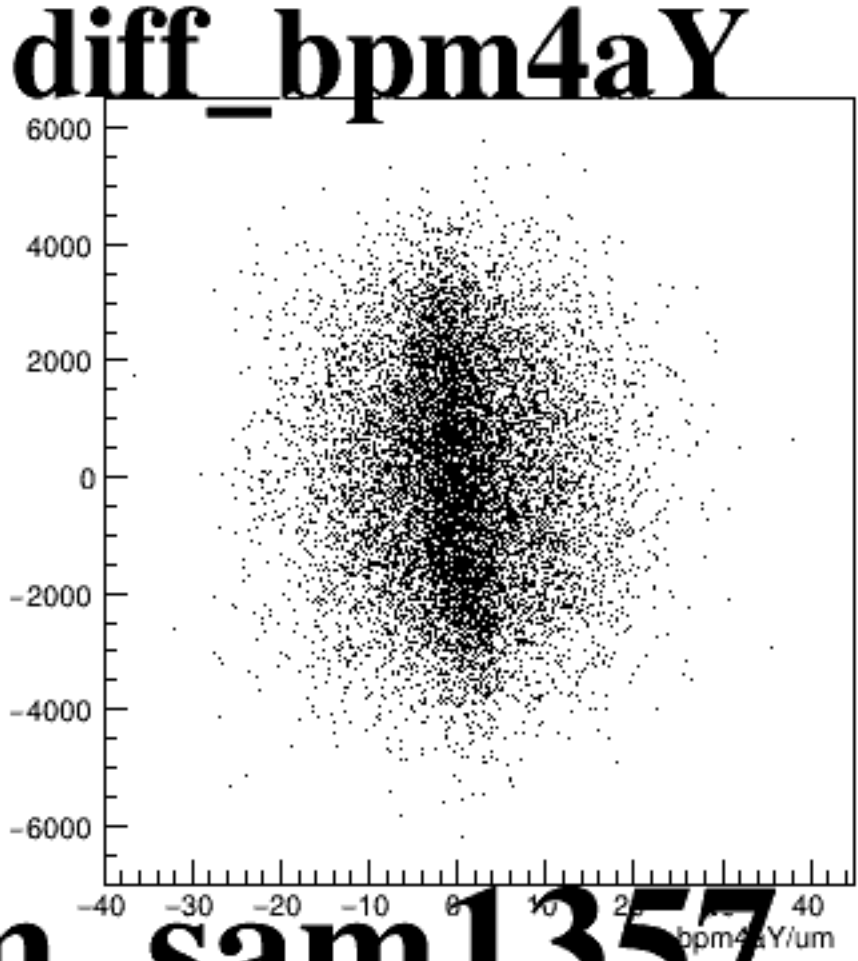
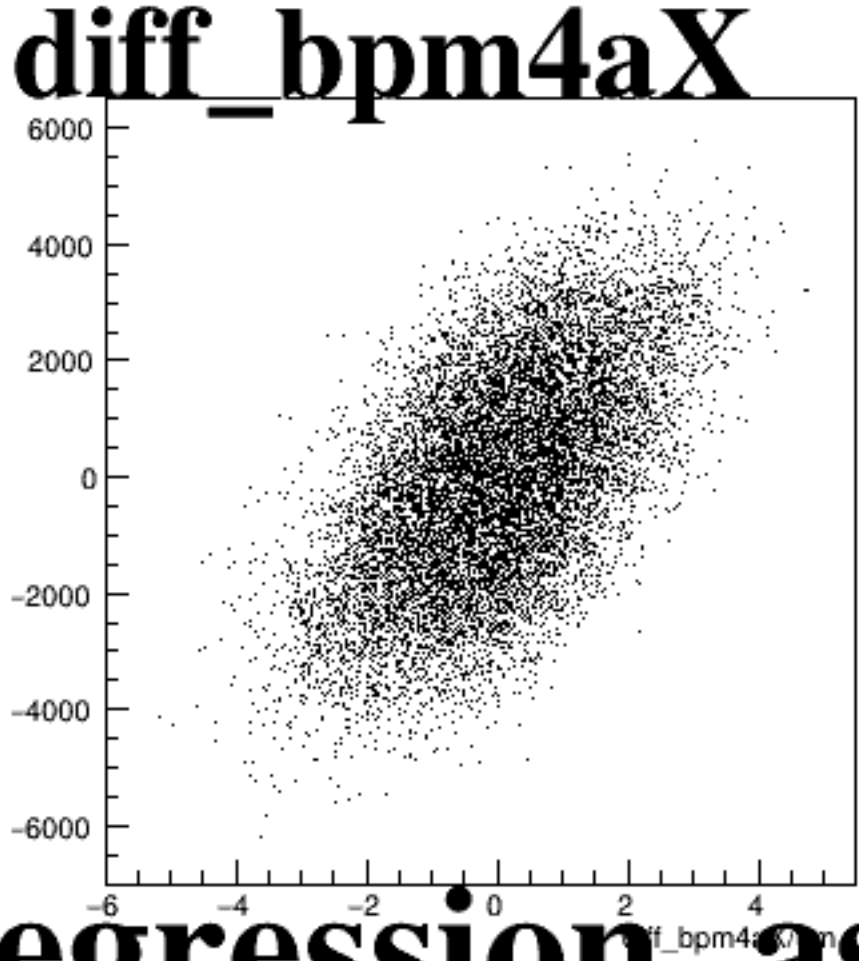
asym_sam3



asym_sam5



asym_sam7



diff_bpm4aX

diff_bpm4aY

diff_bpm4eX

diff_bpm4eY

diff_bpmE