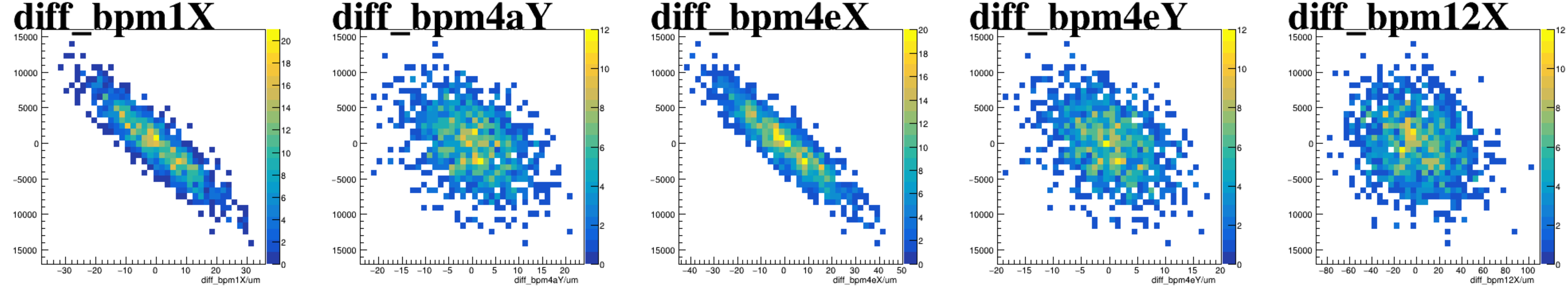
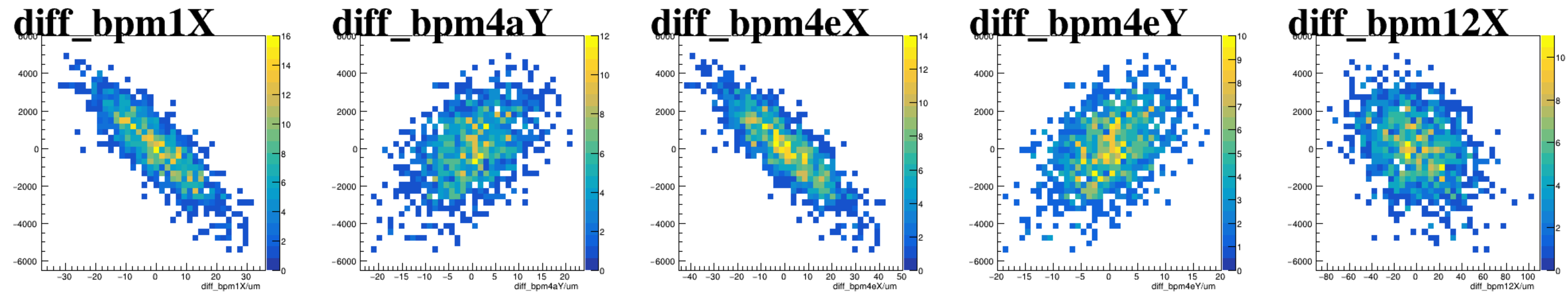


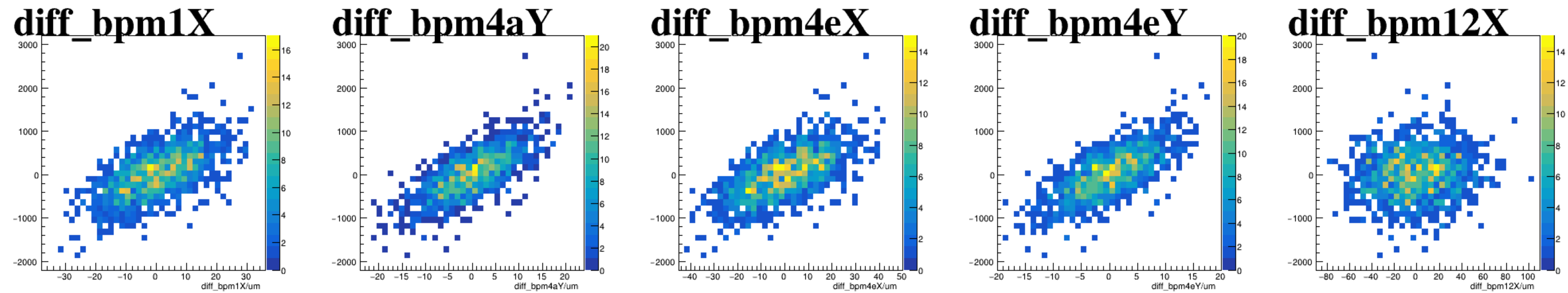
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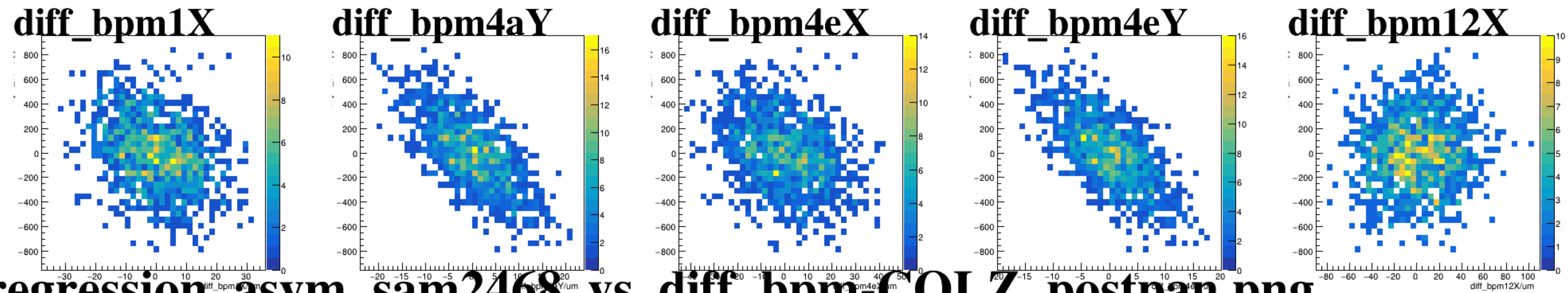
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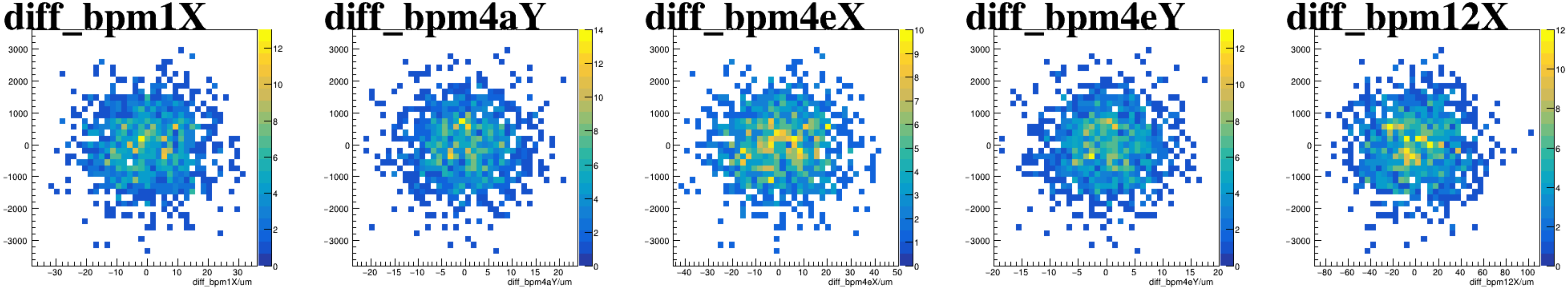
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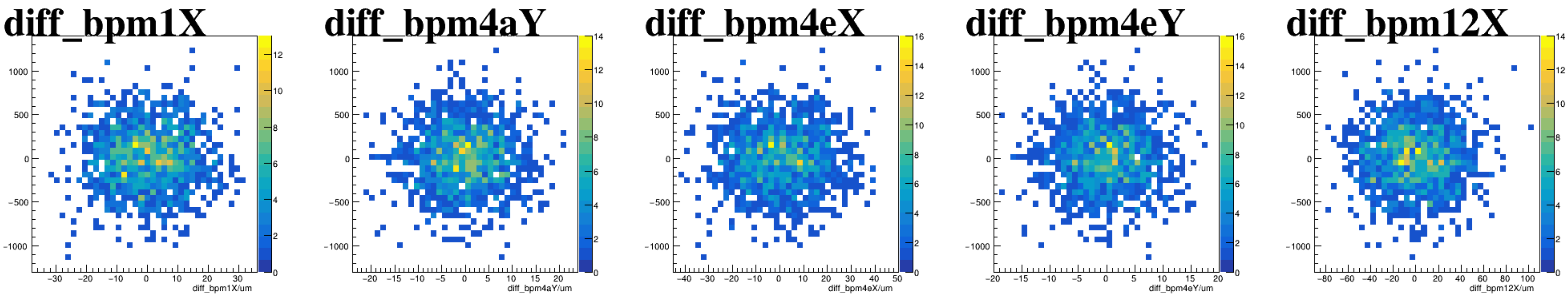
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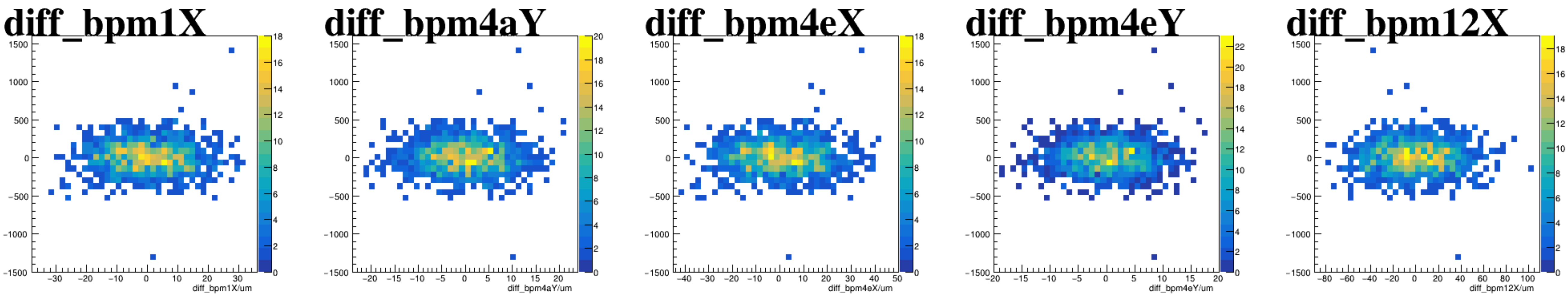
reg_asym_sam2



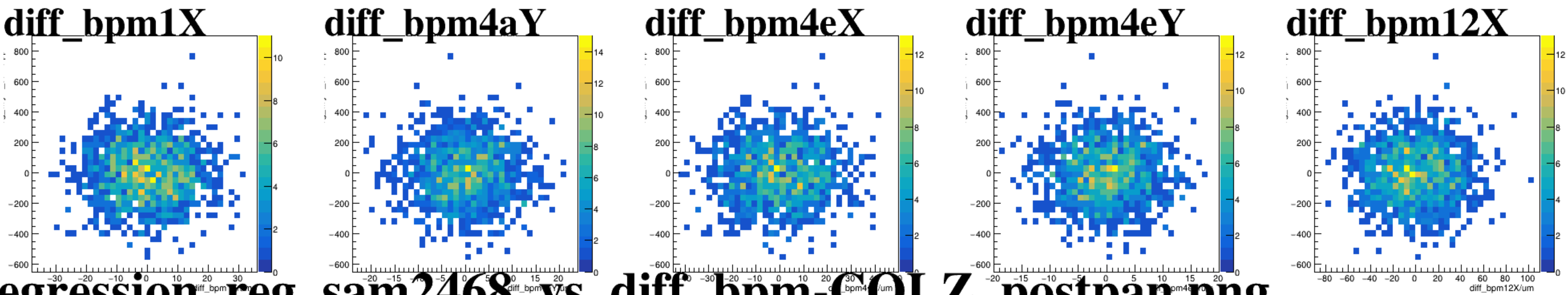
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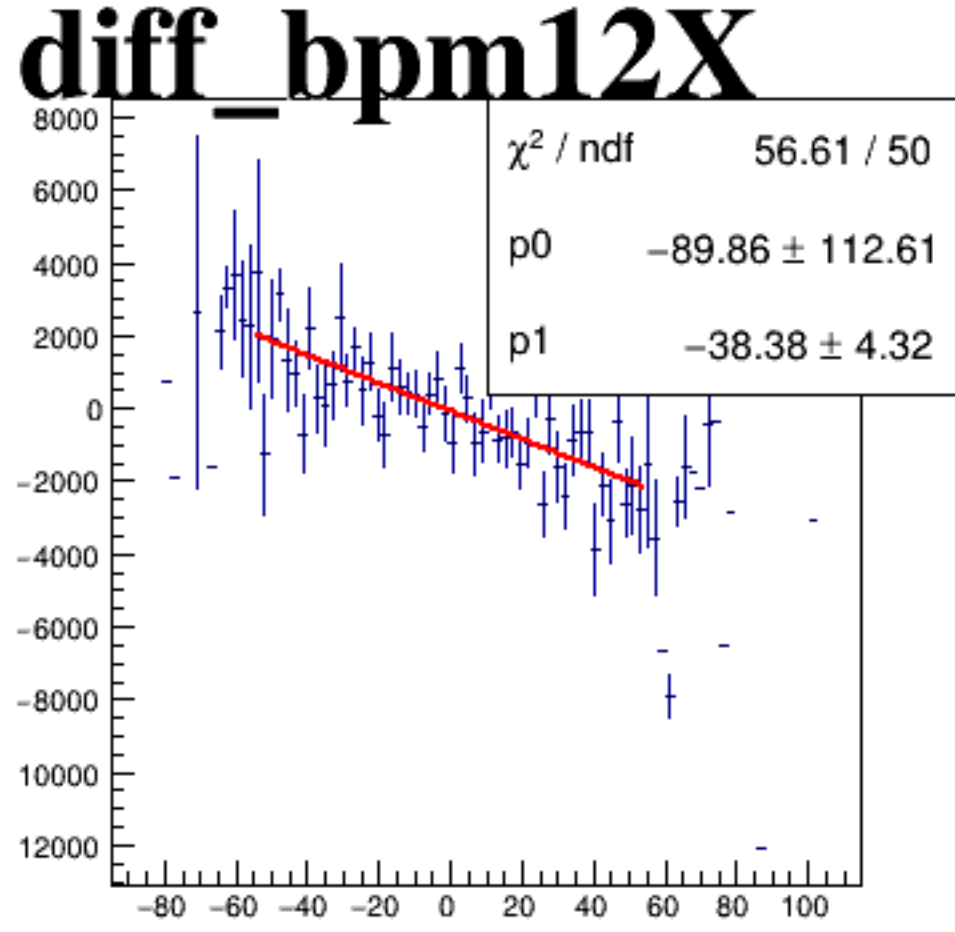
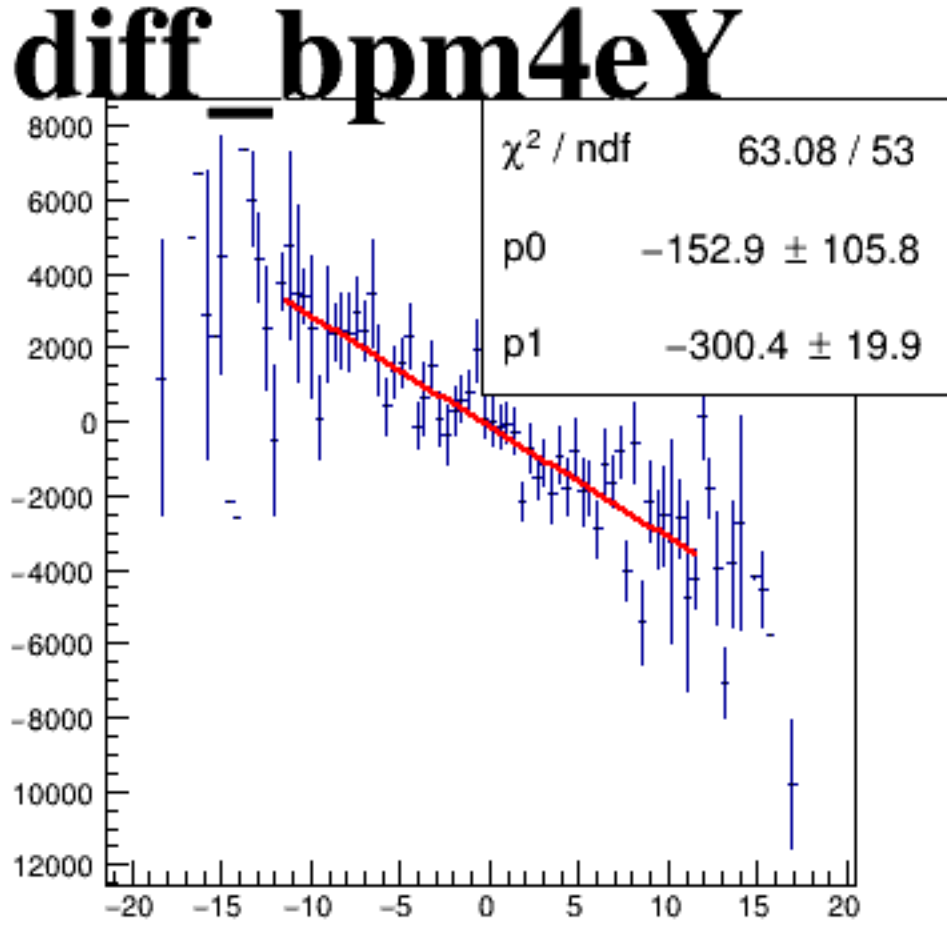
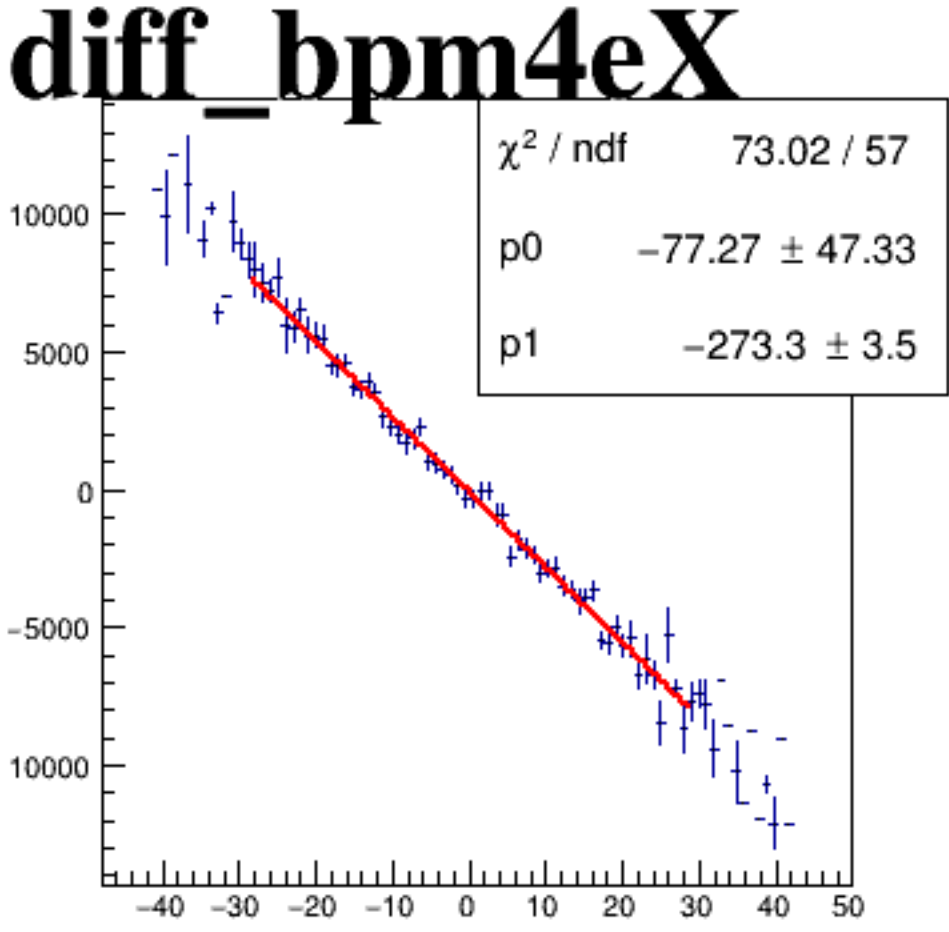
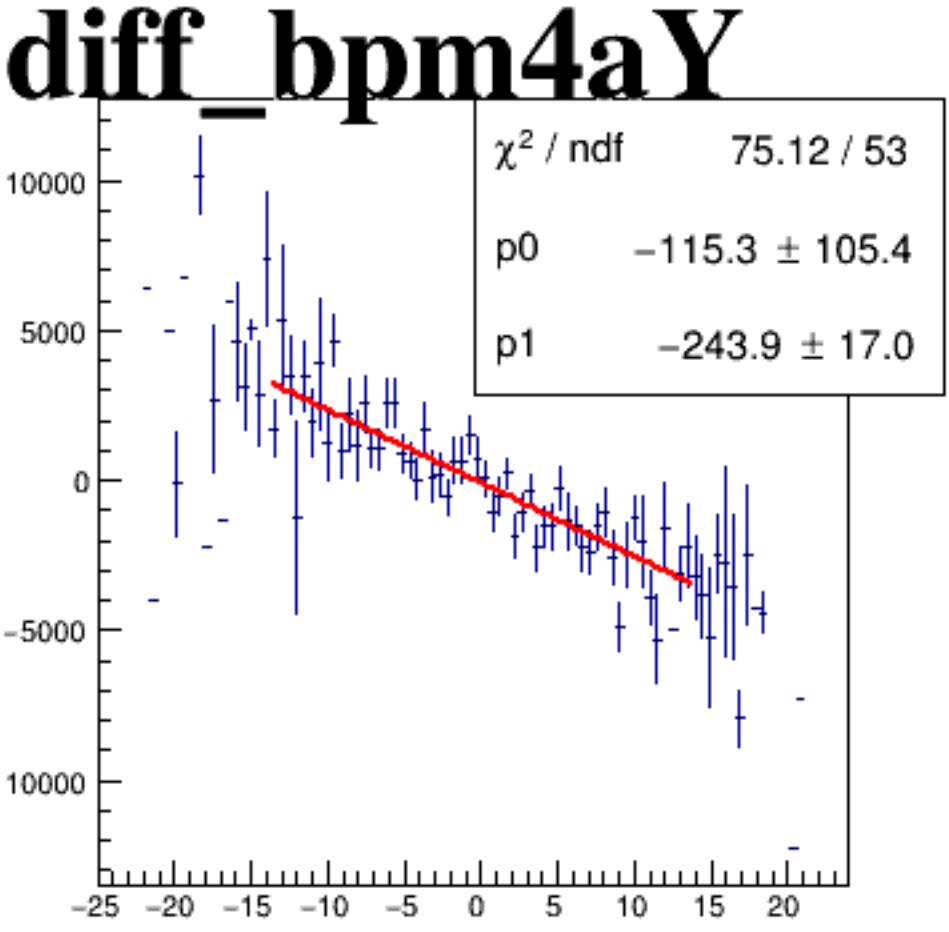
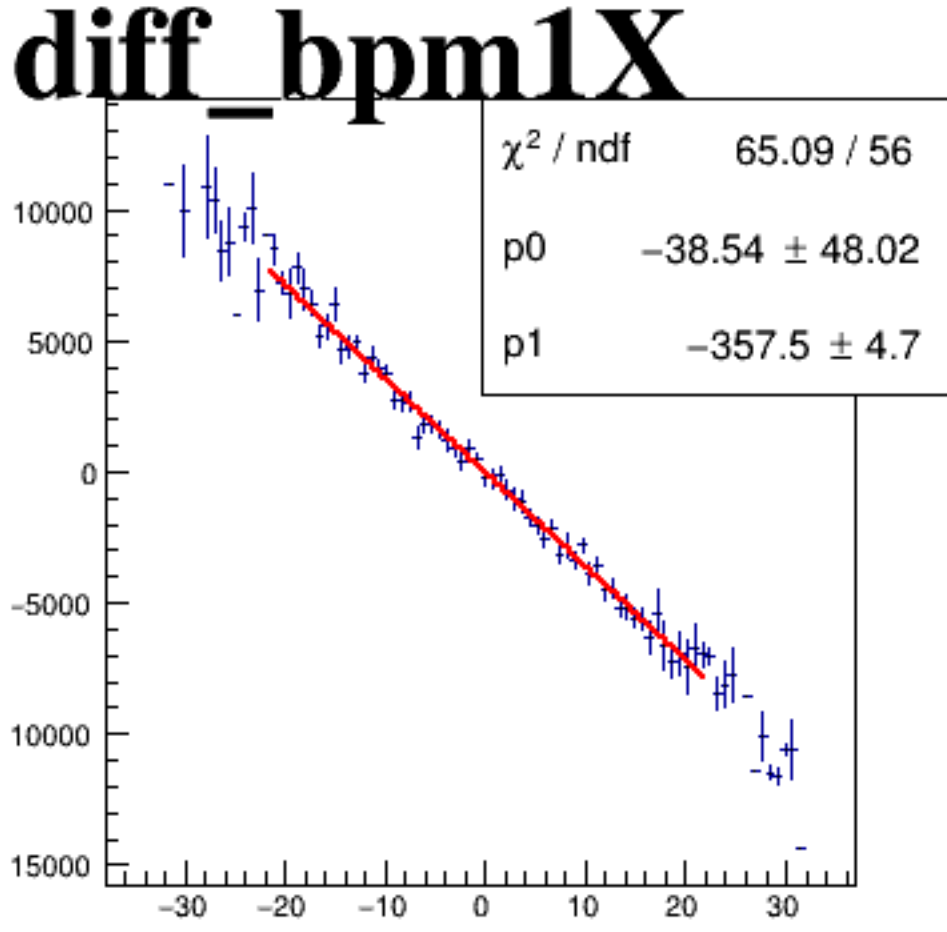
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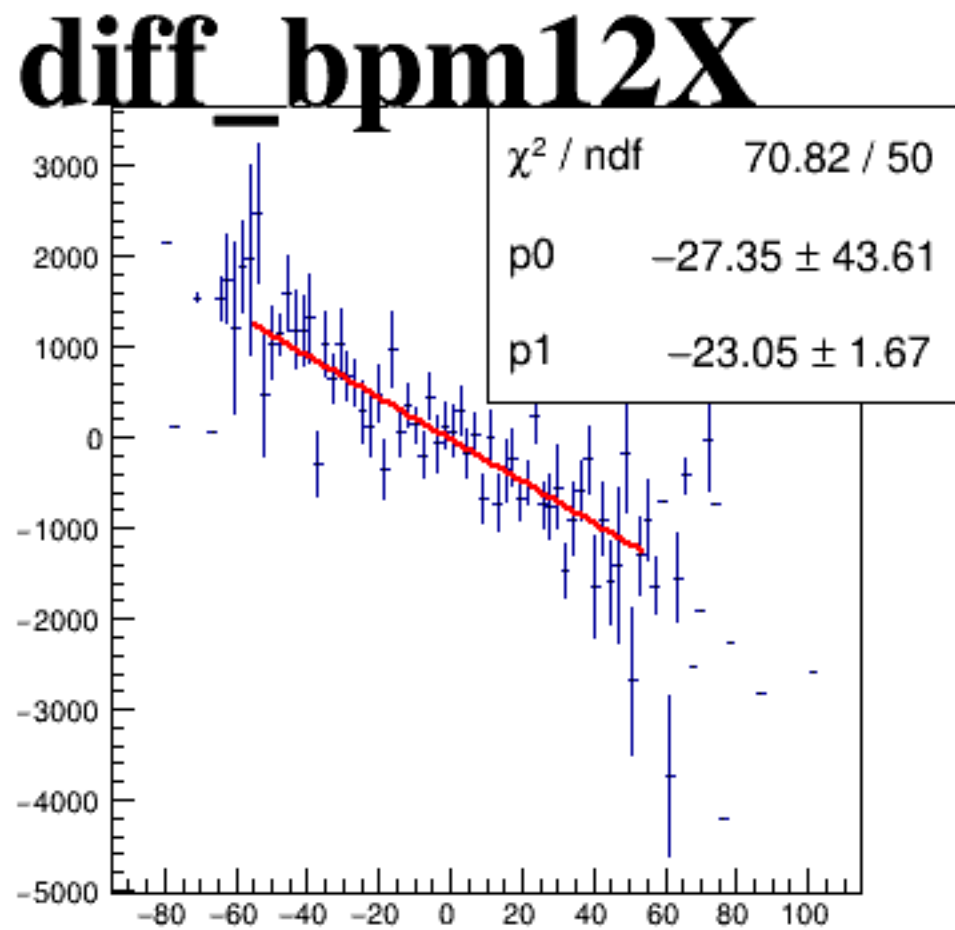
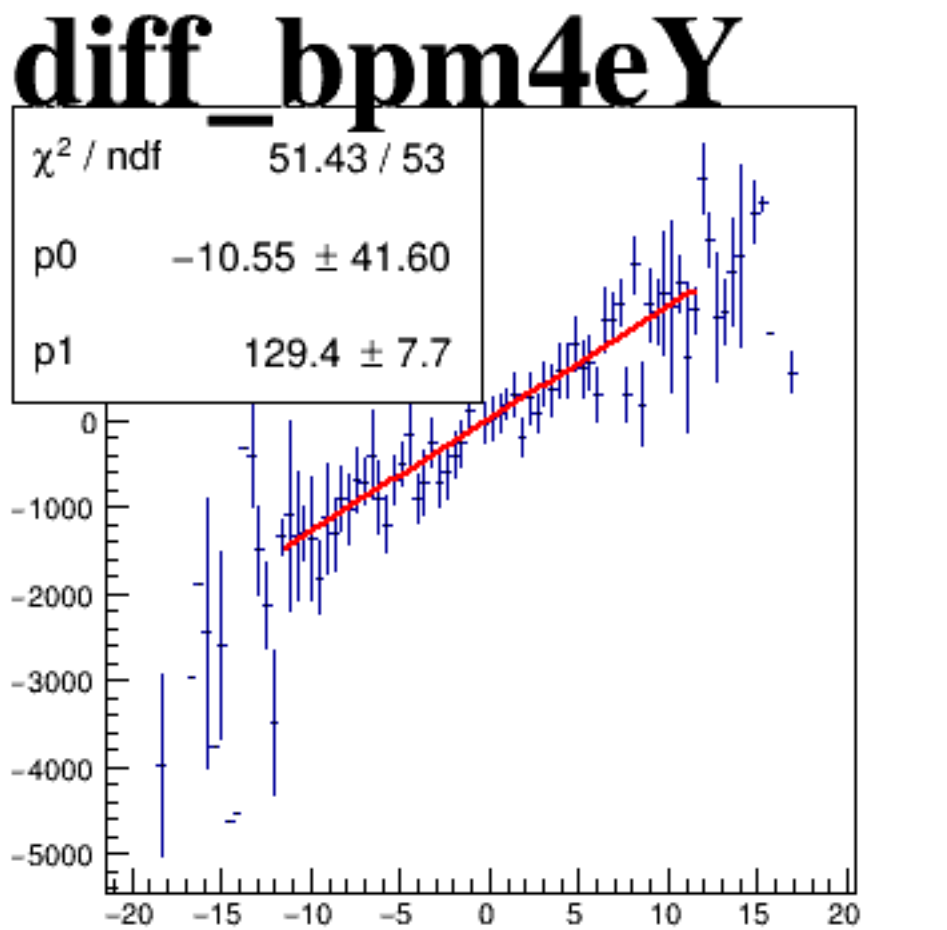
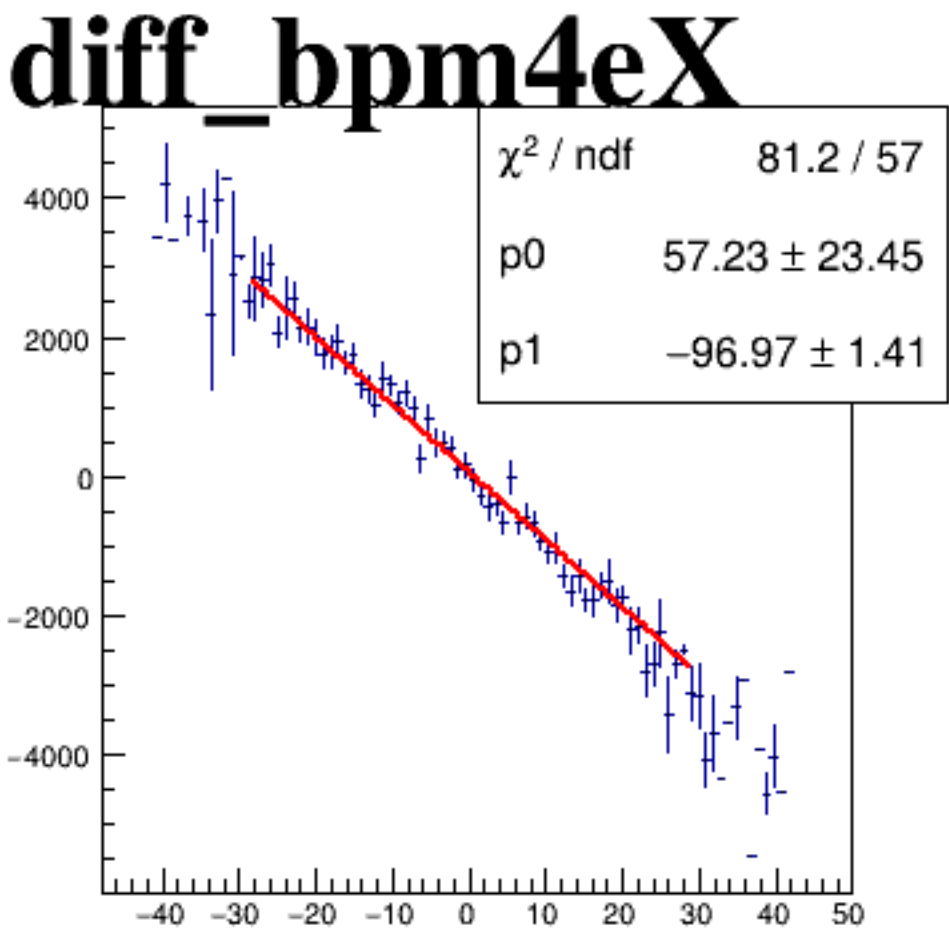
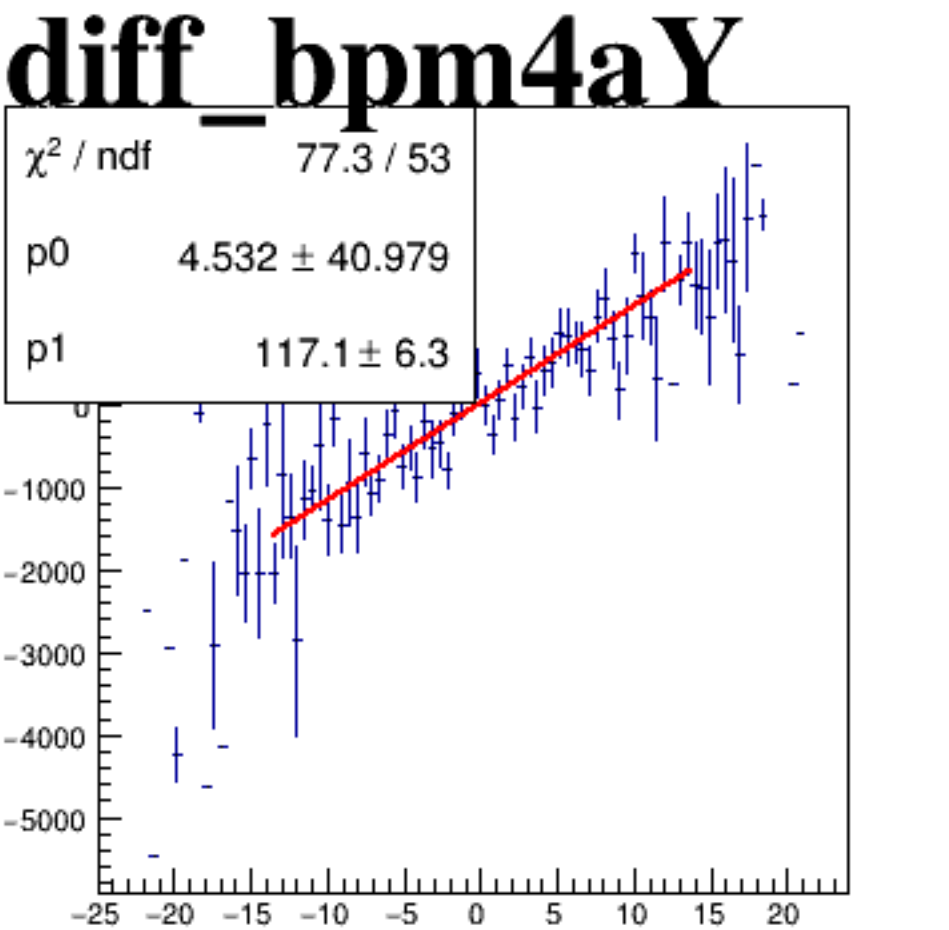
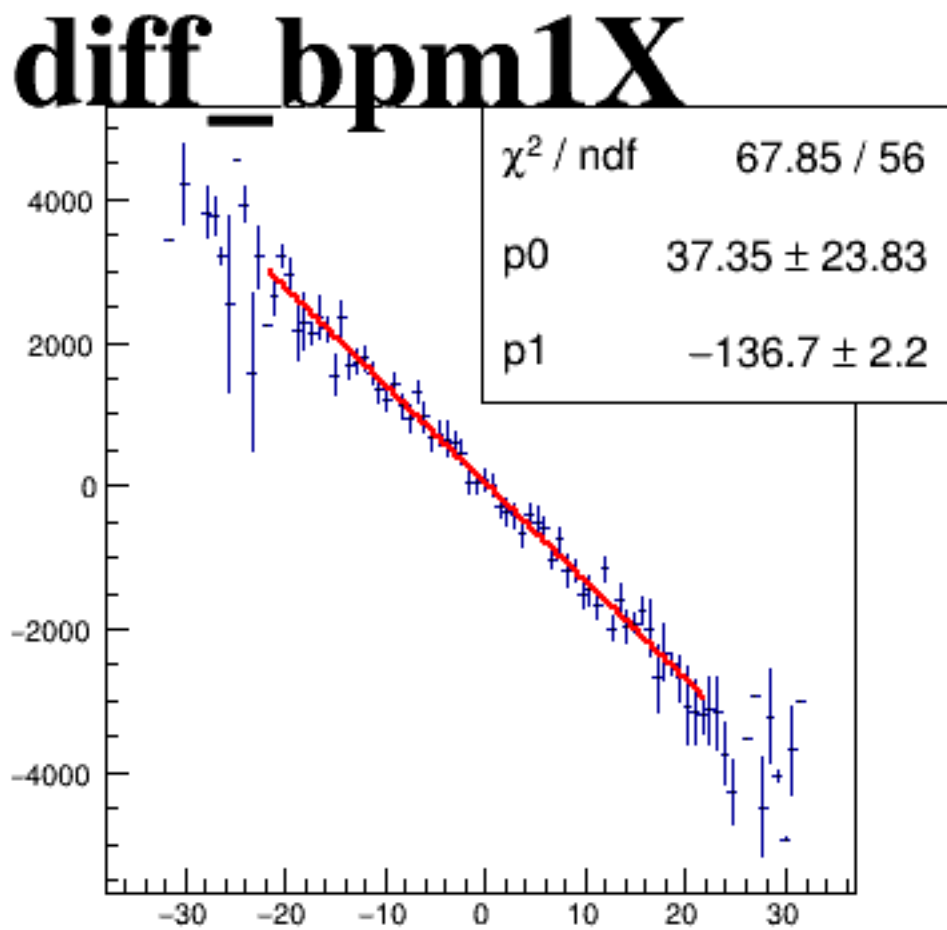
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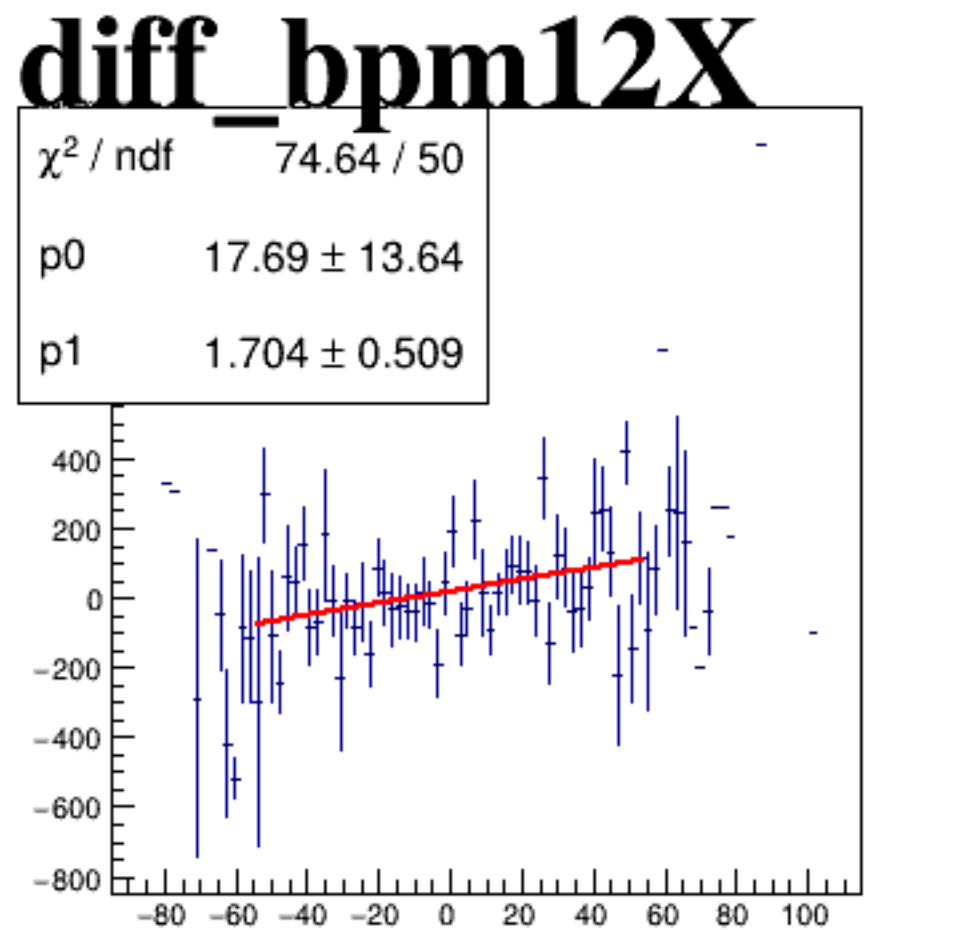
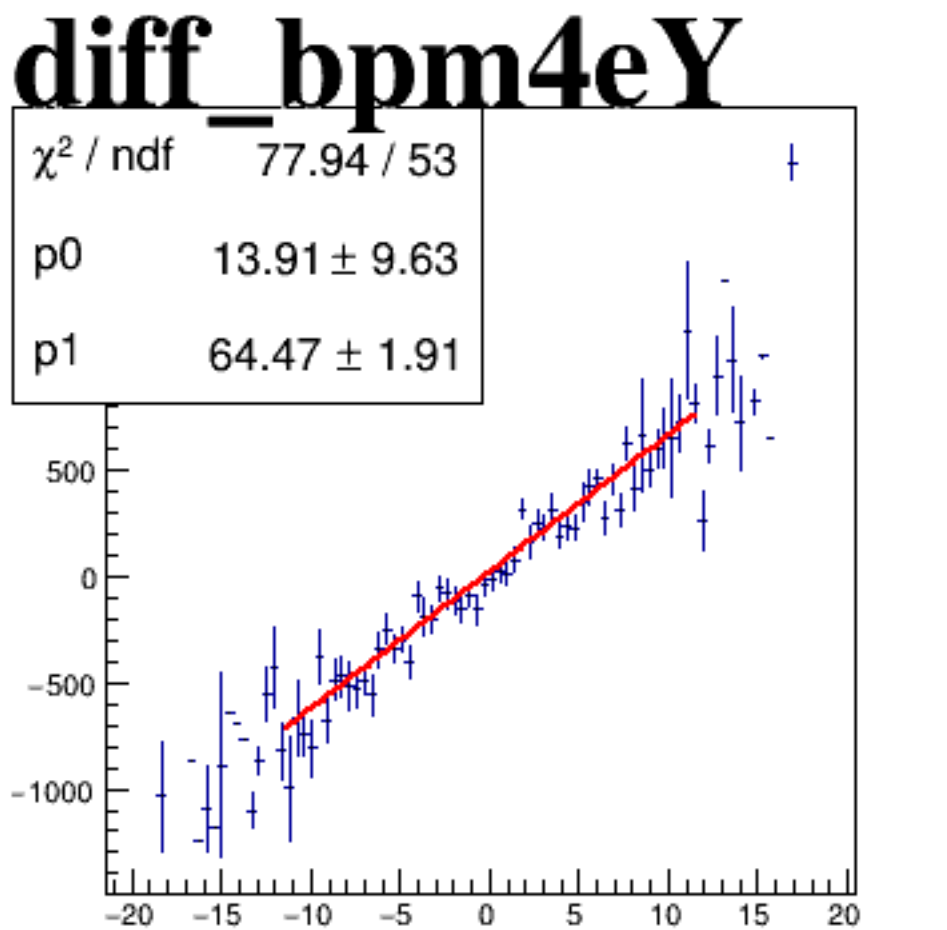
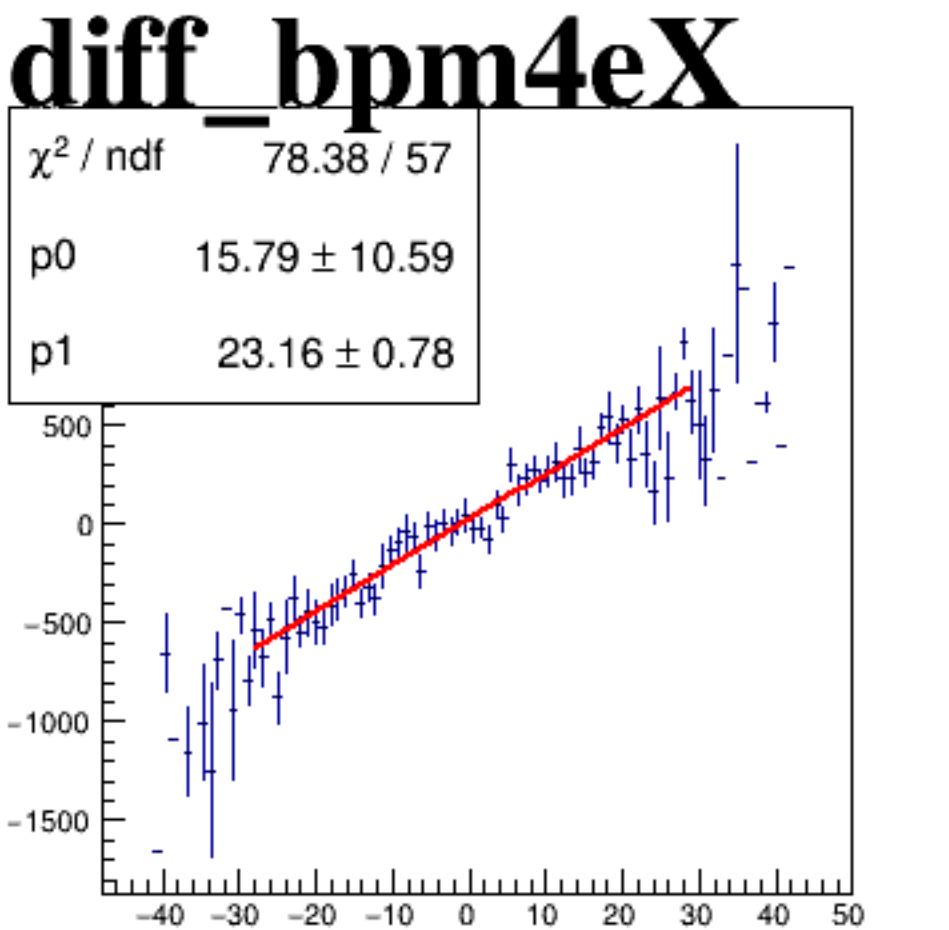
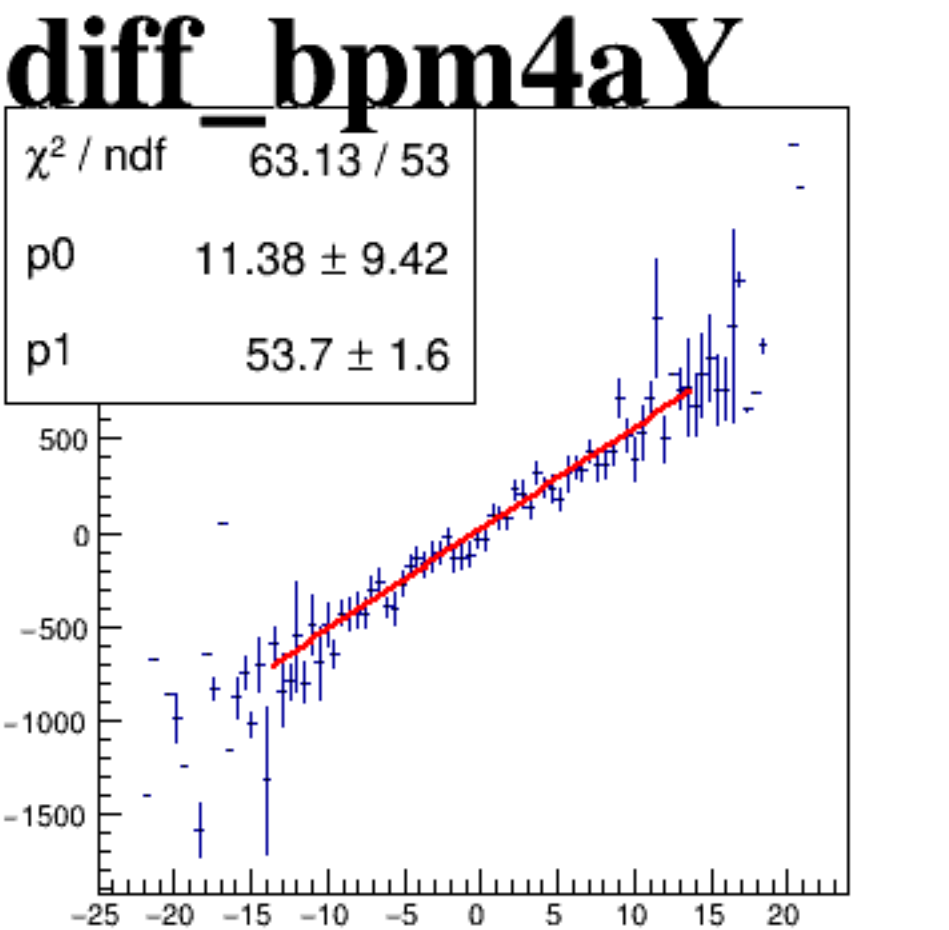
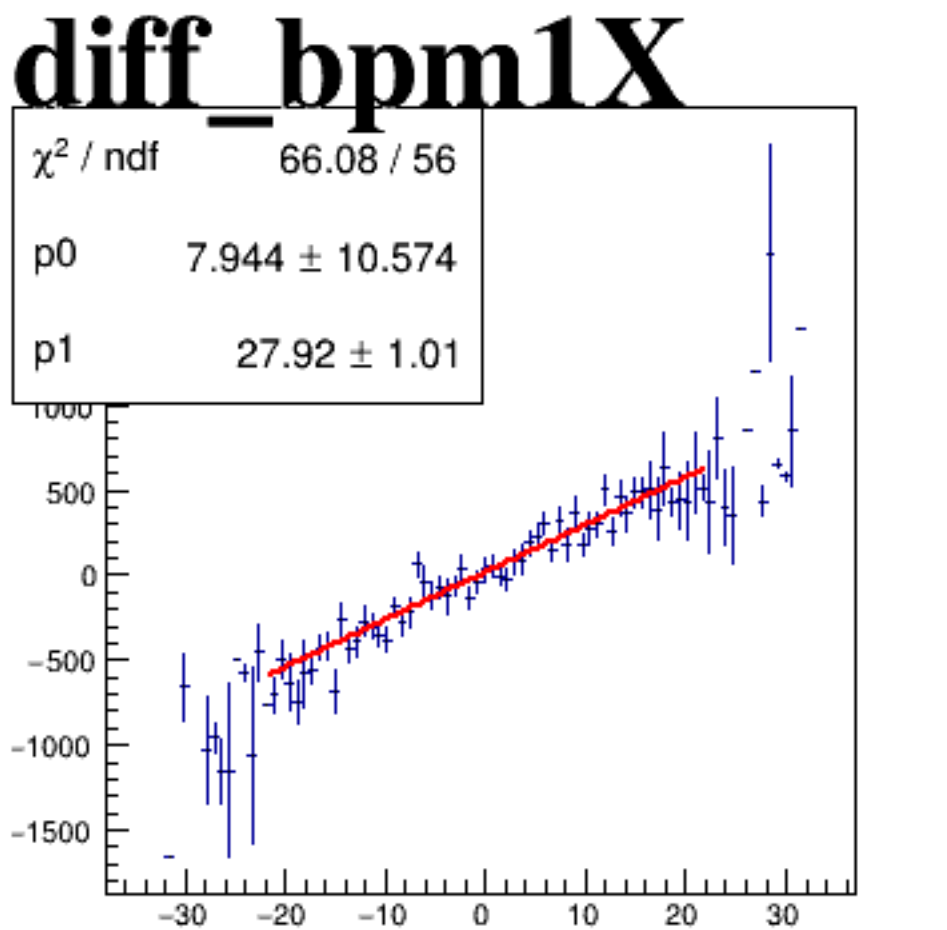
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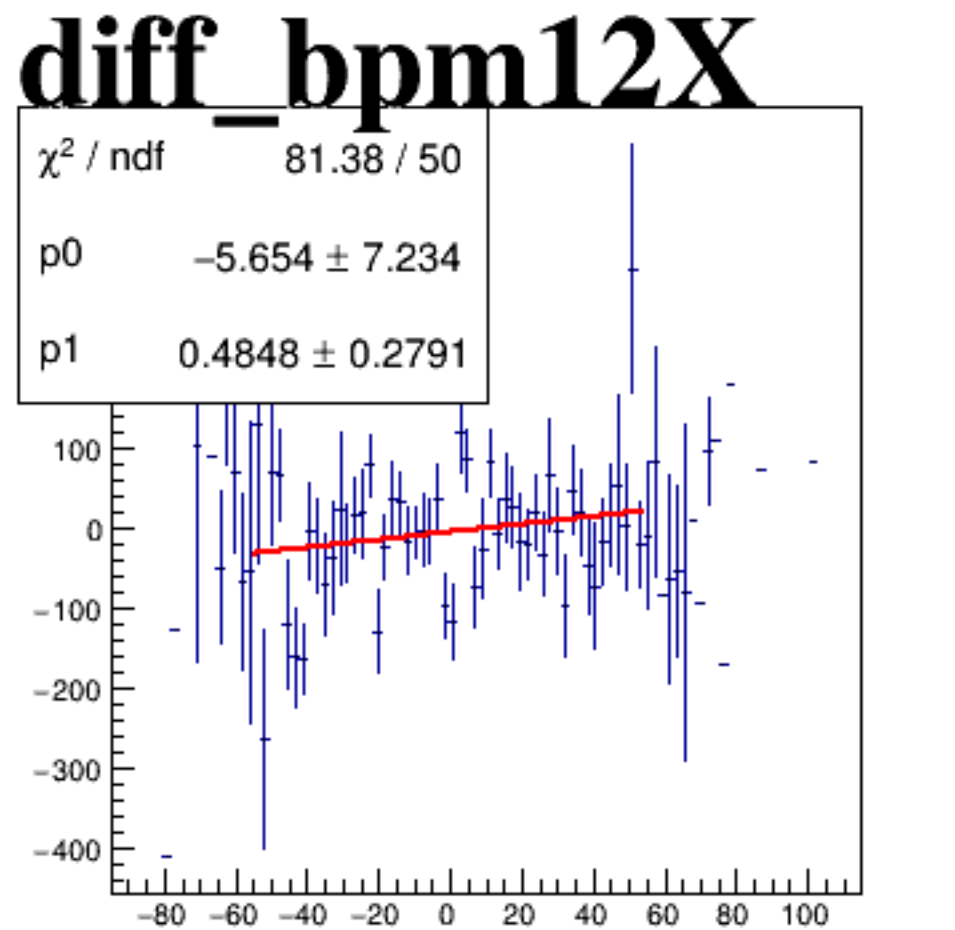
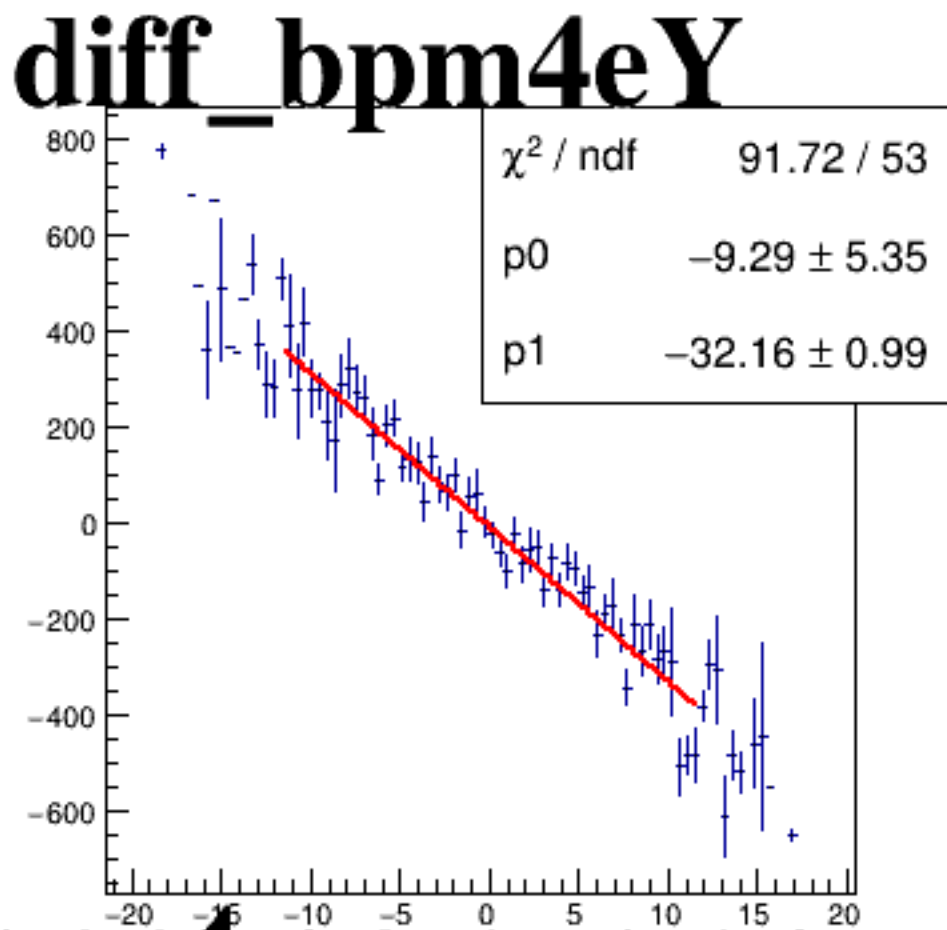
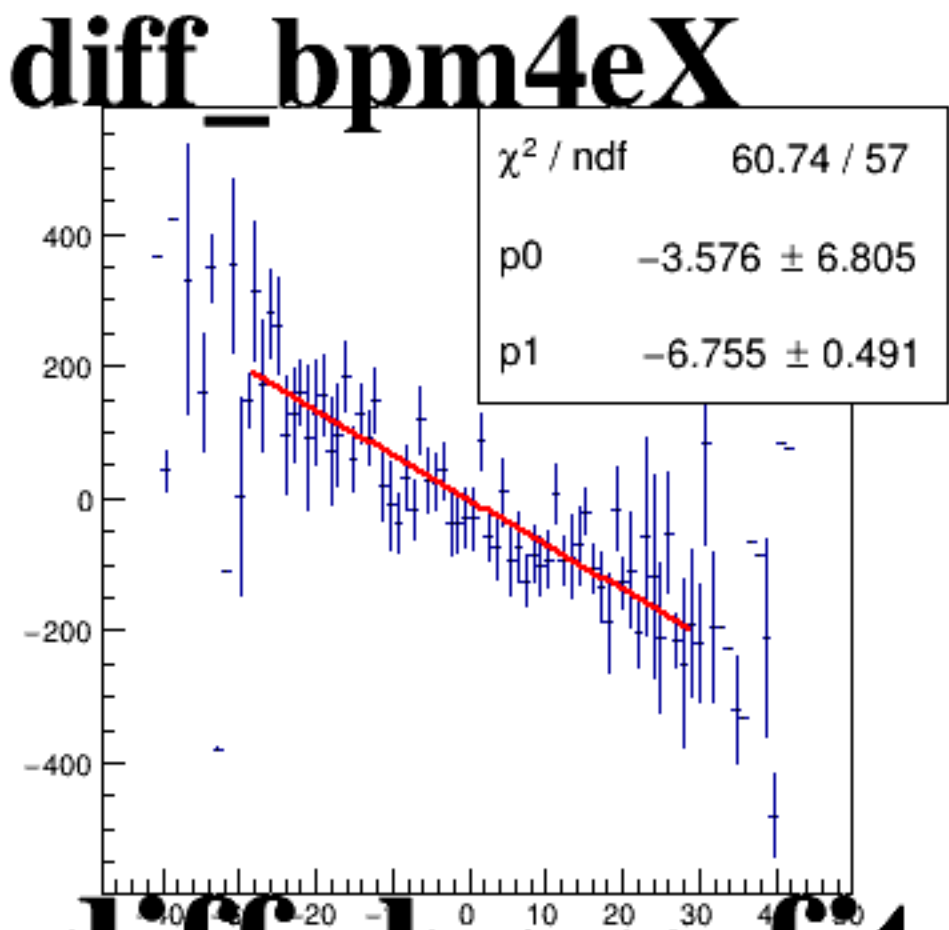
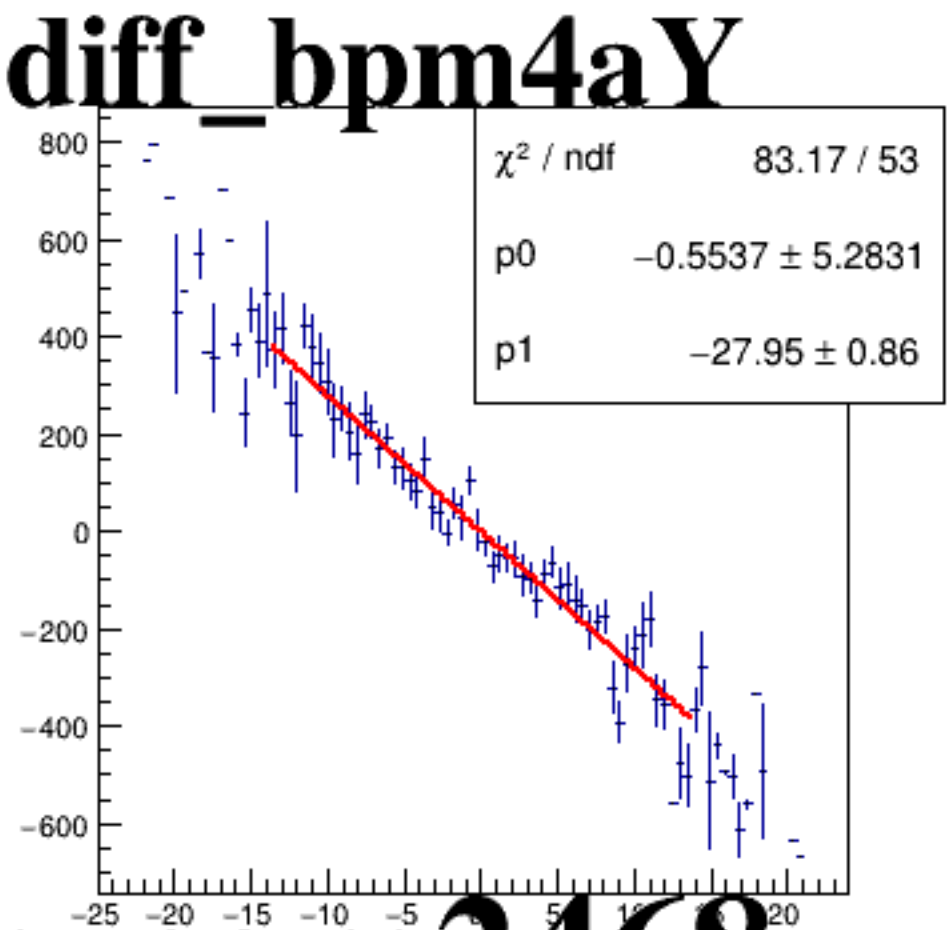
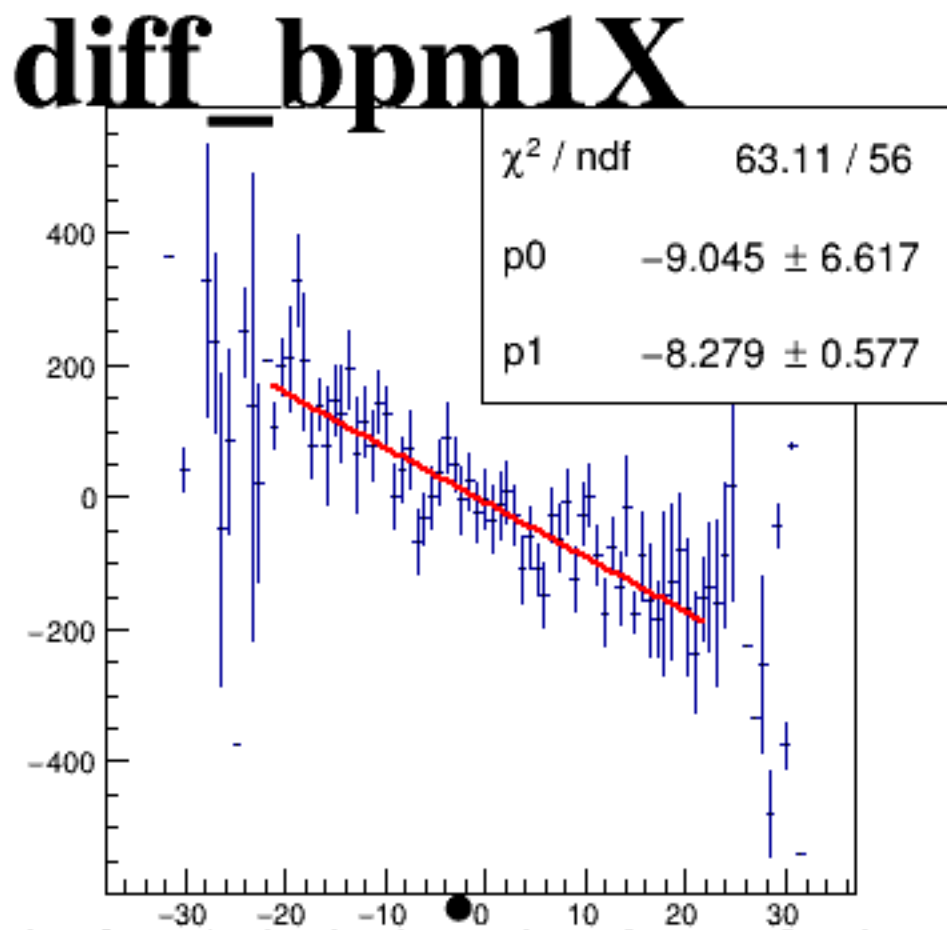
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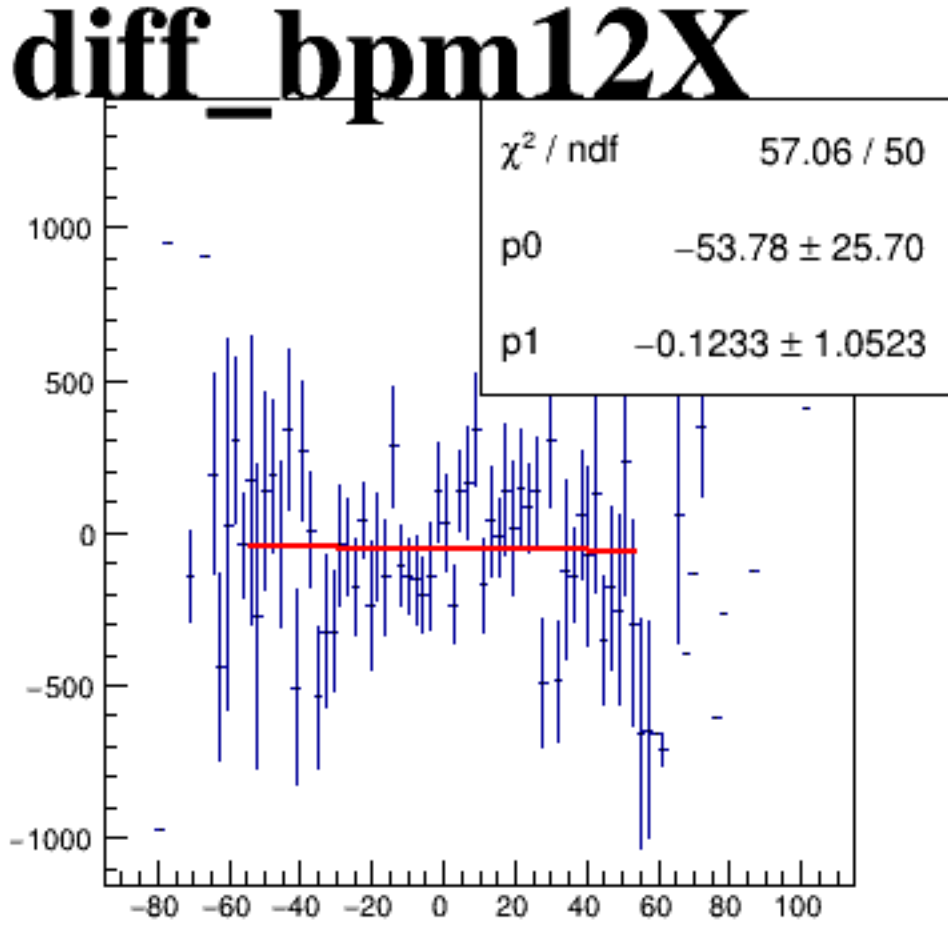
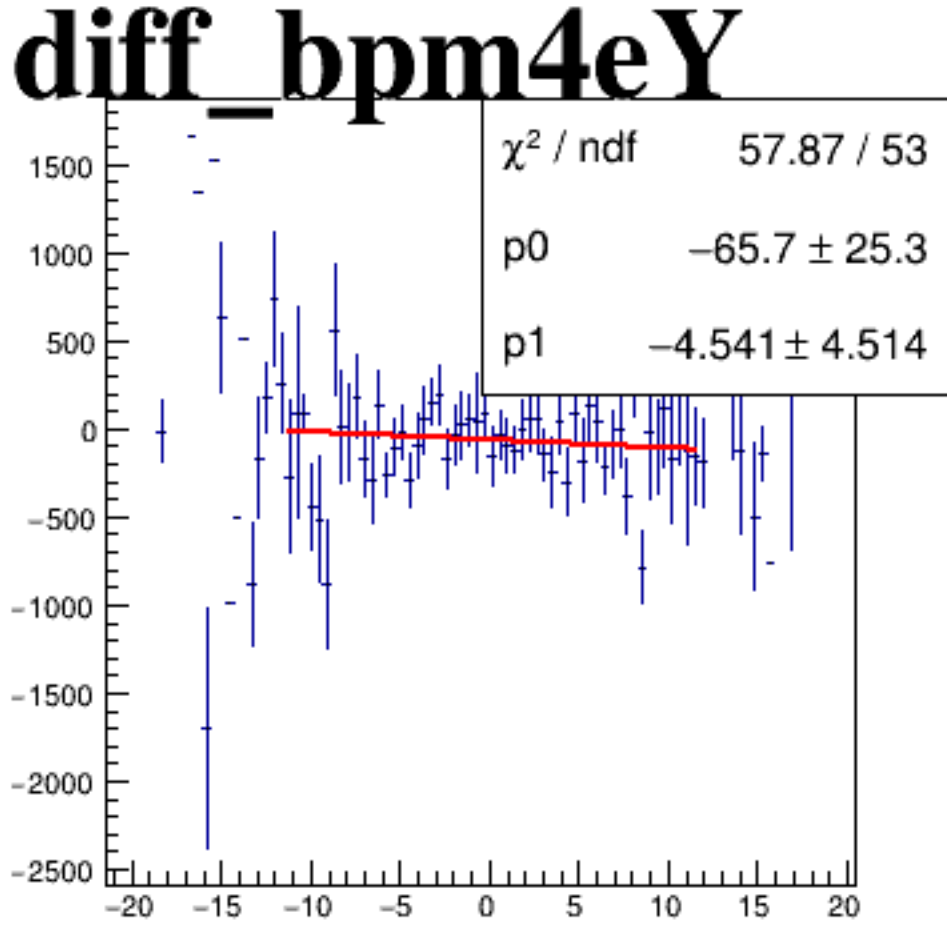
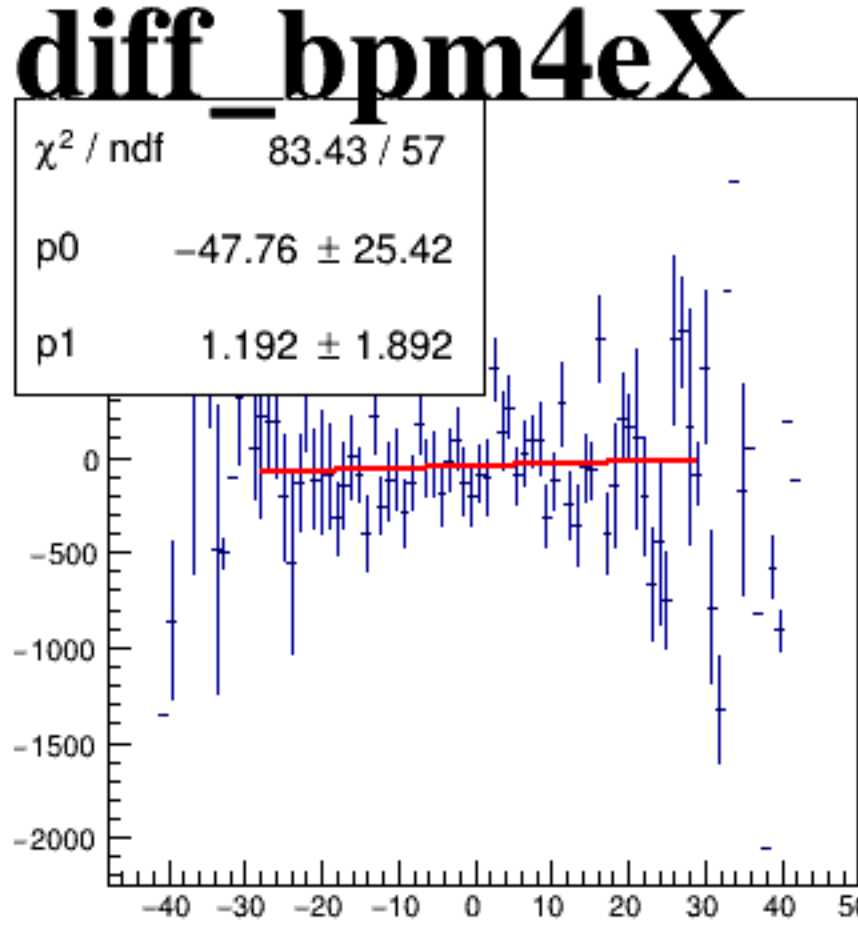
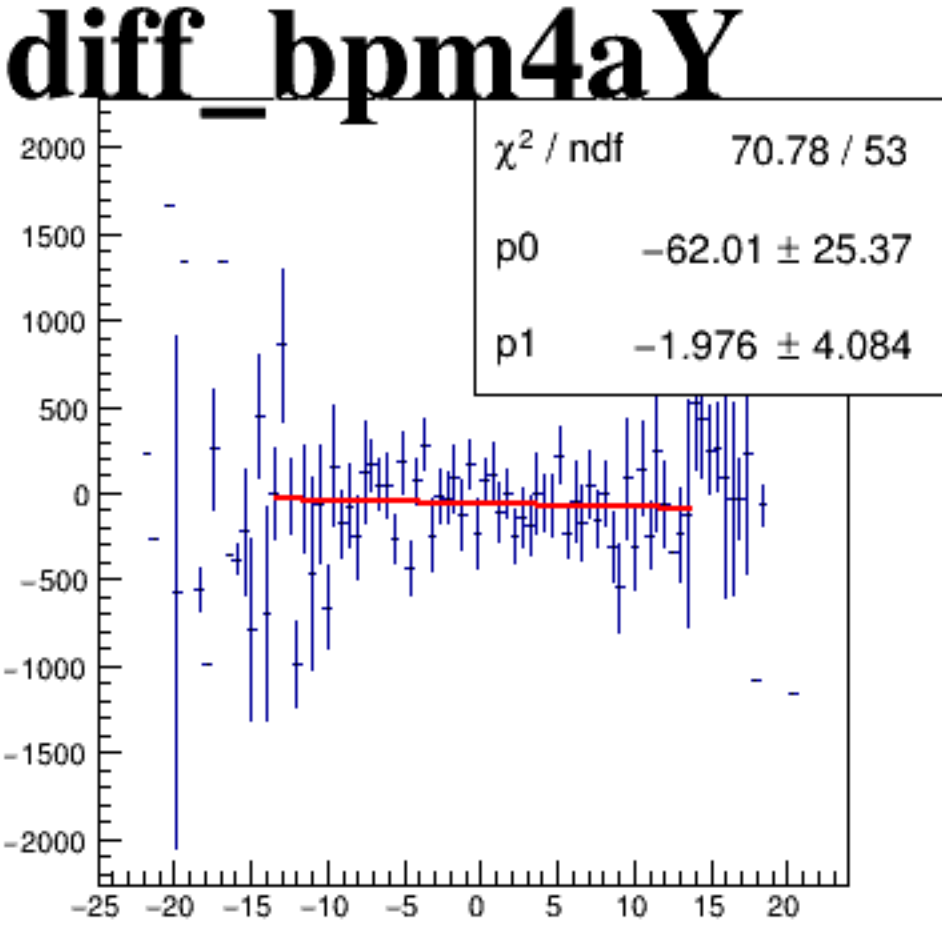
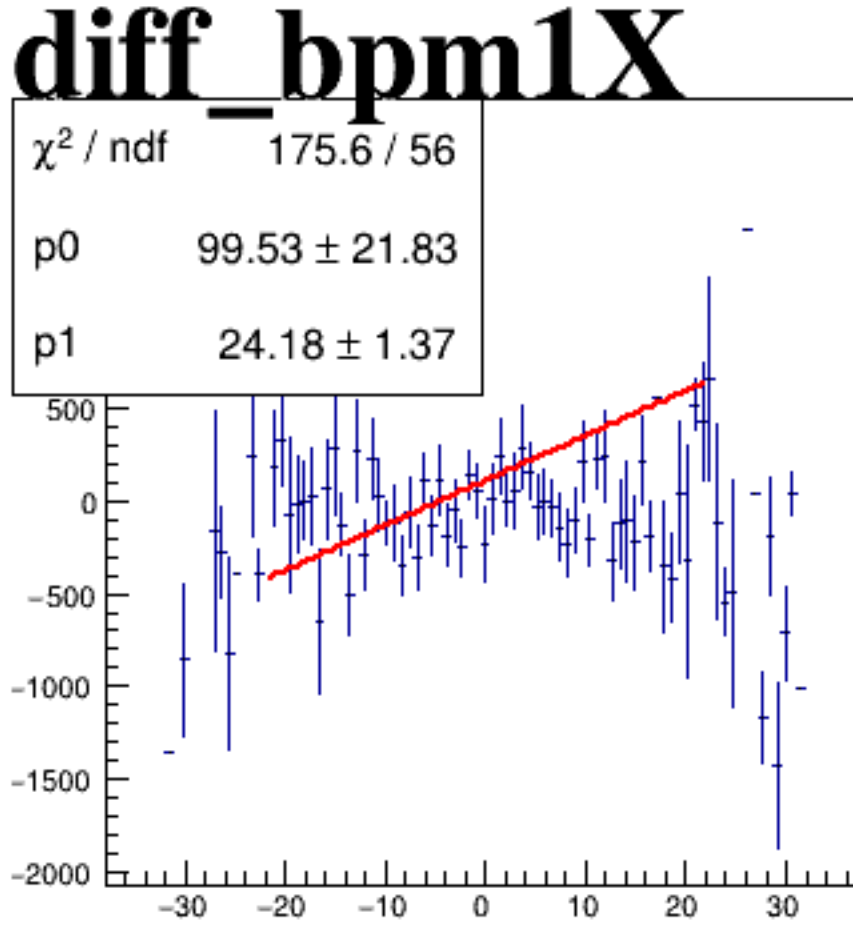
asym_sam6



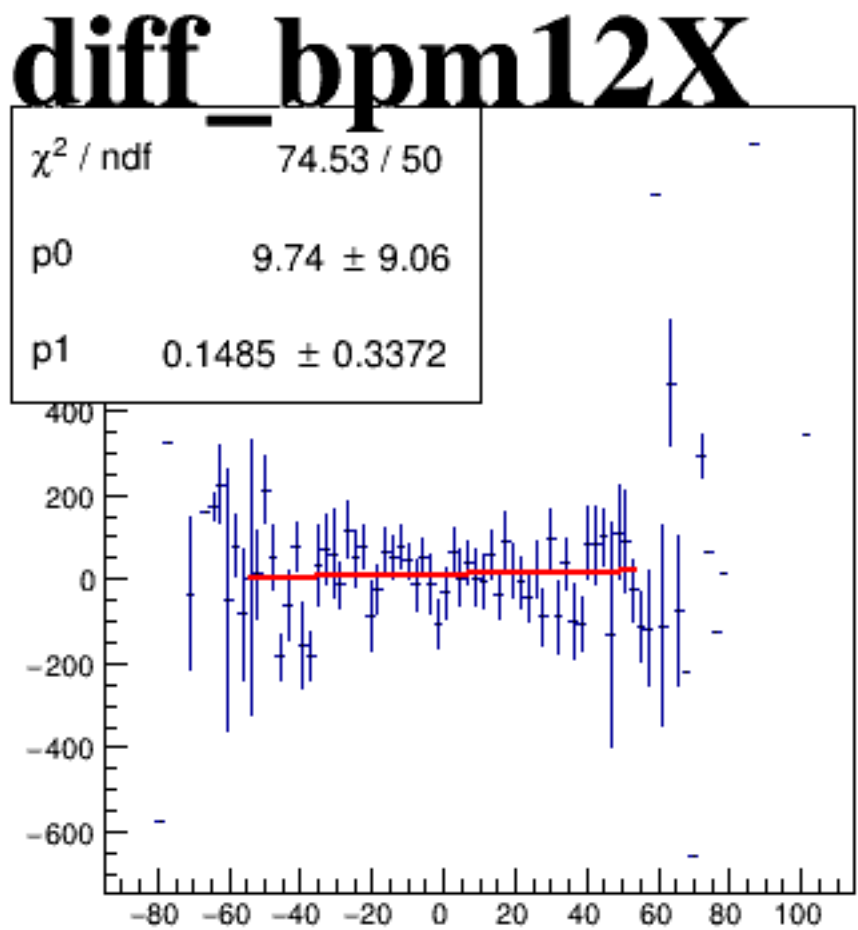
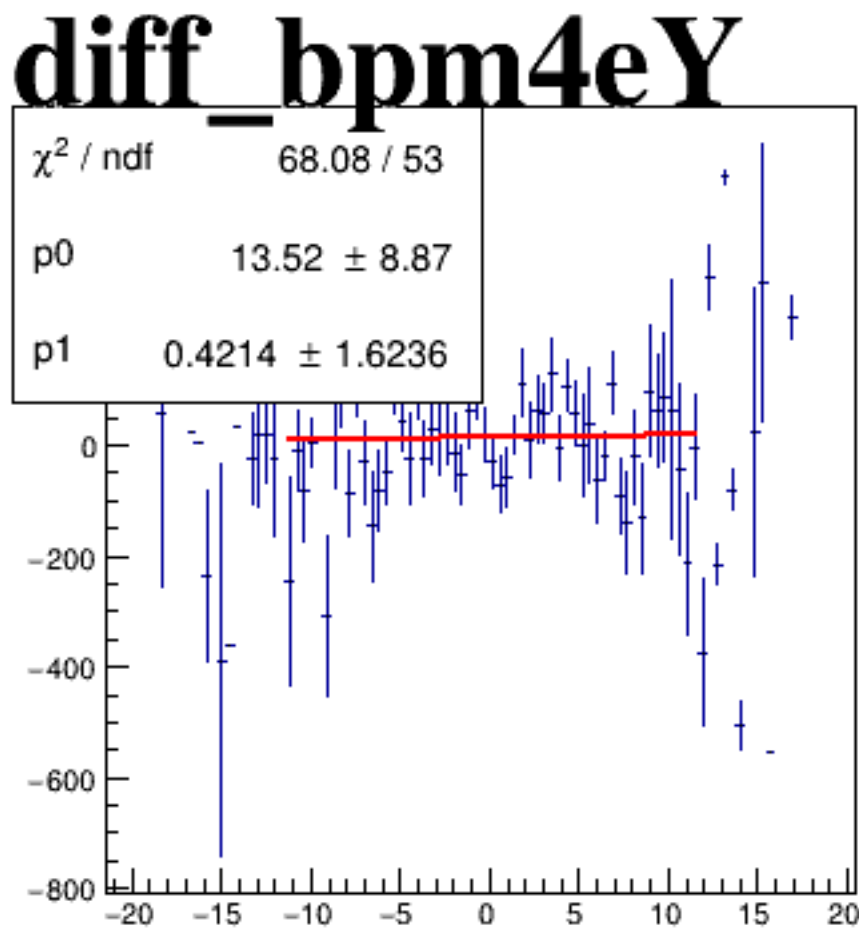
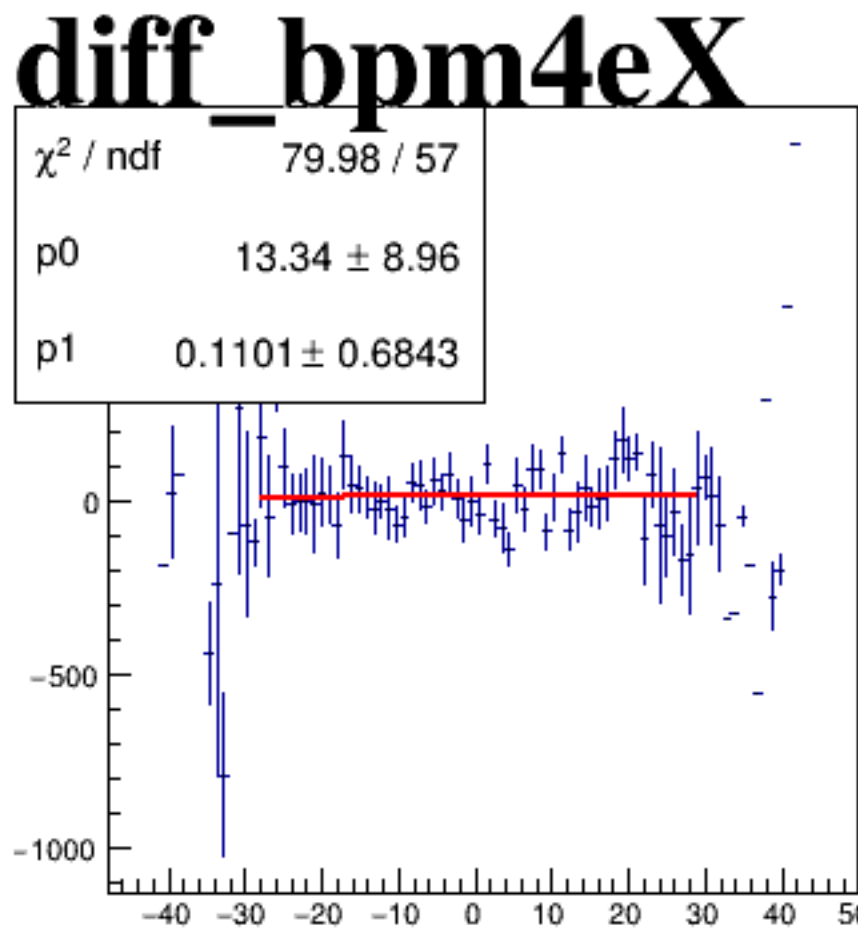
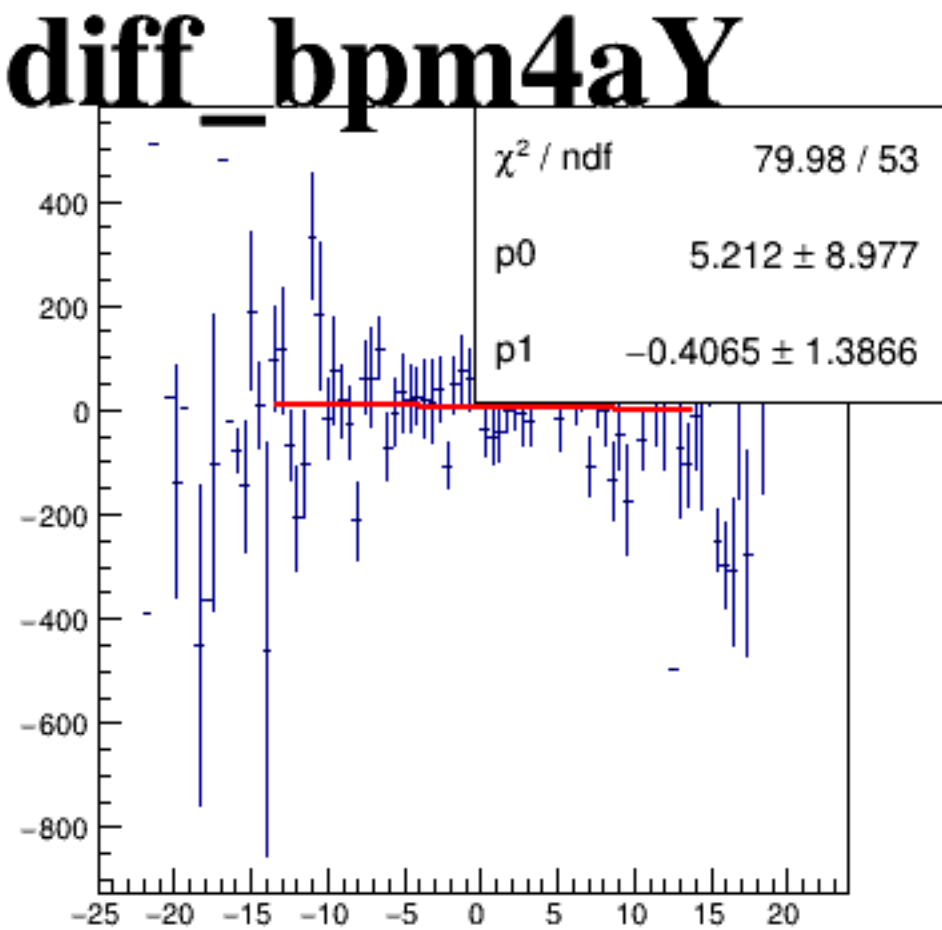
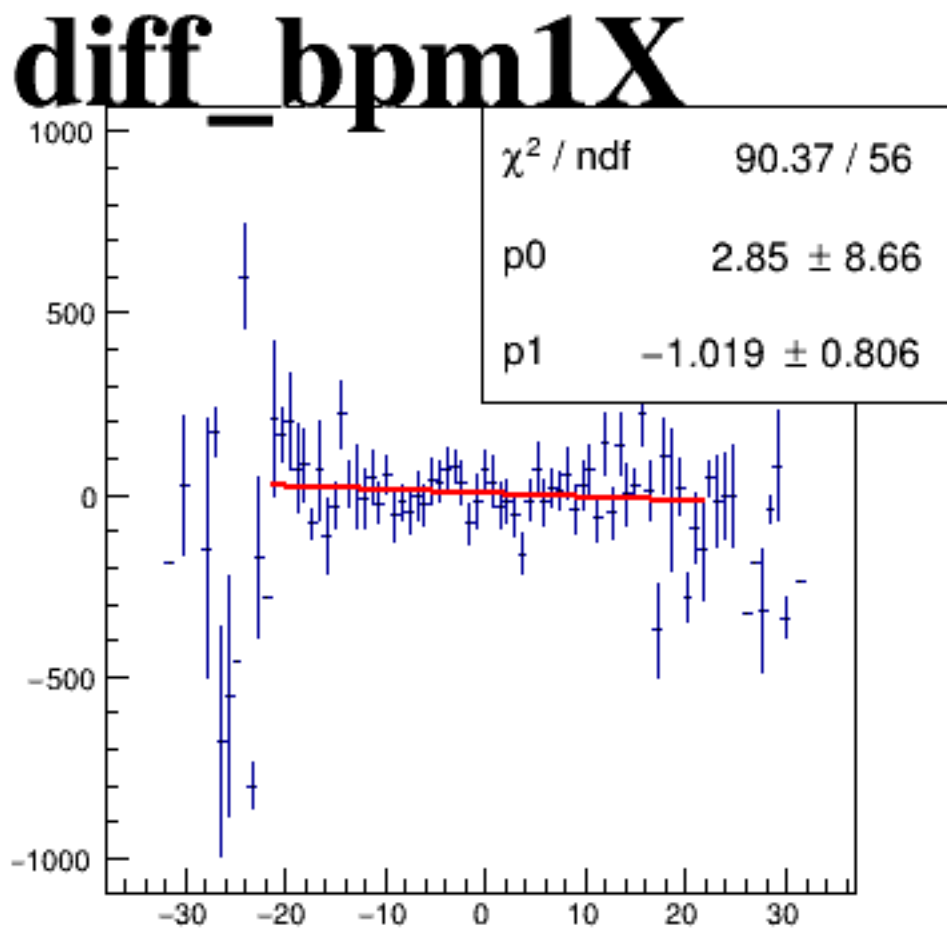
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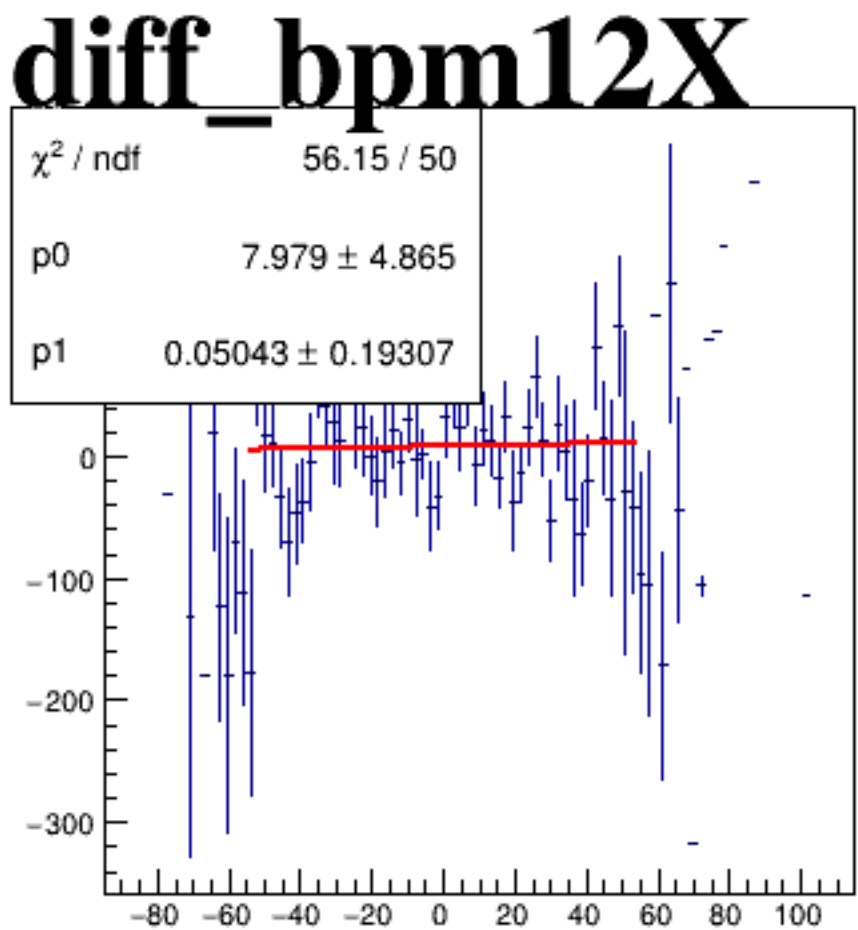
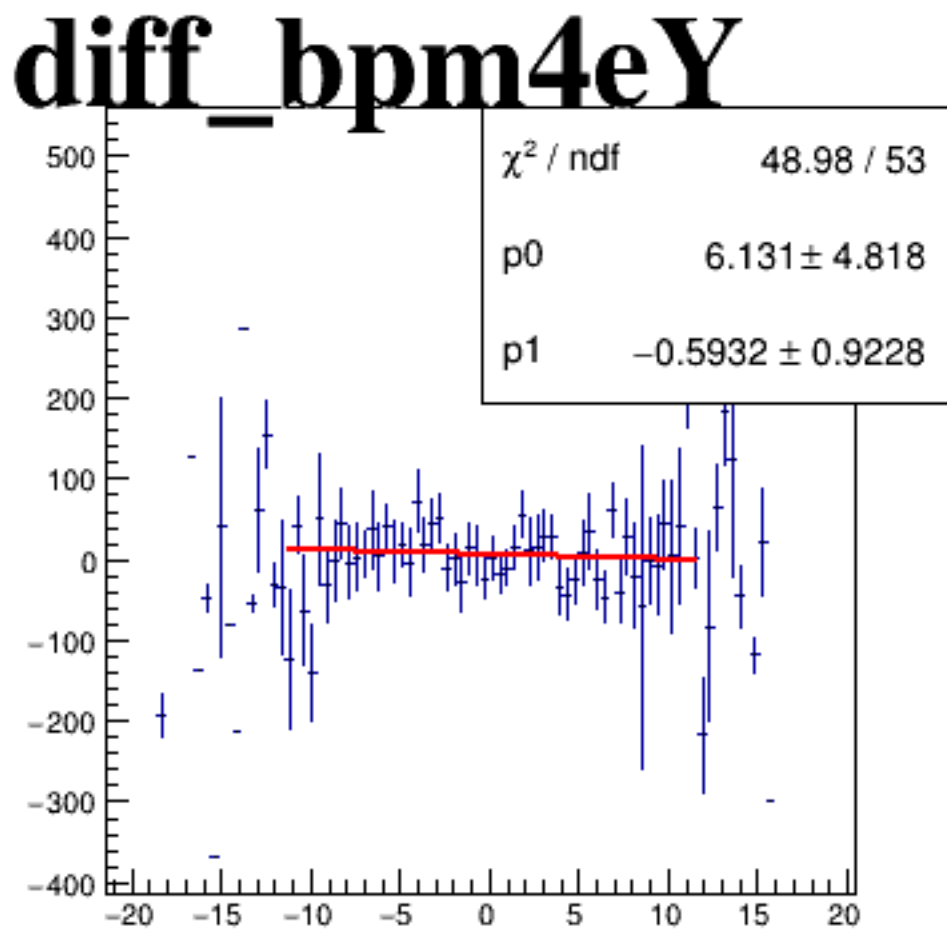
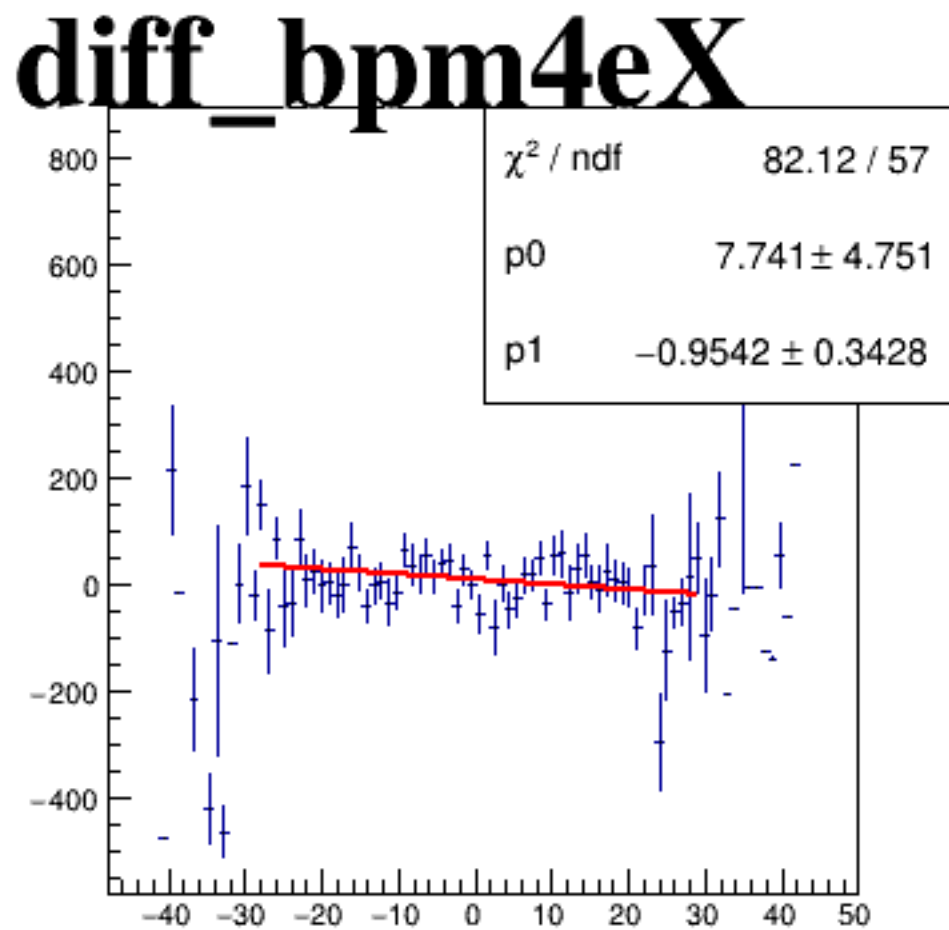
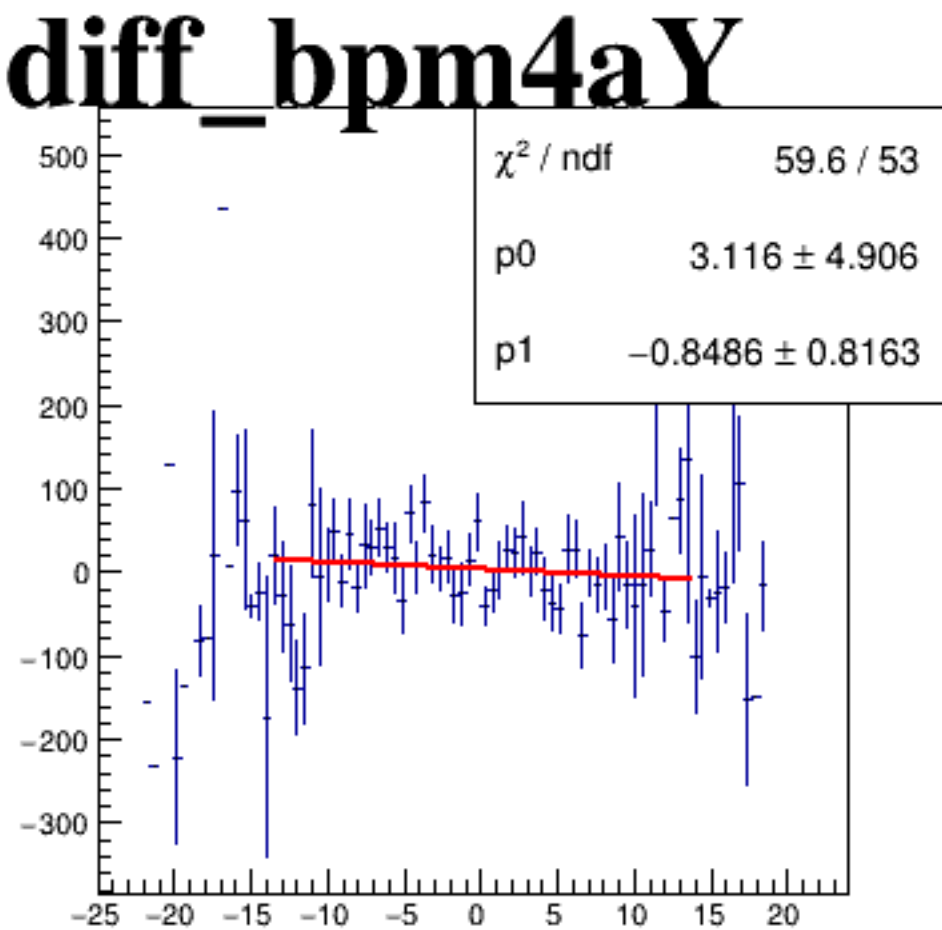
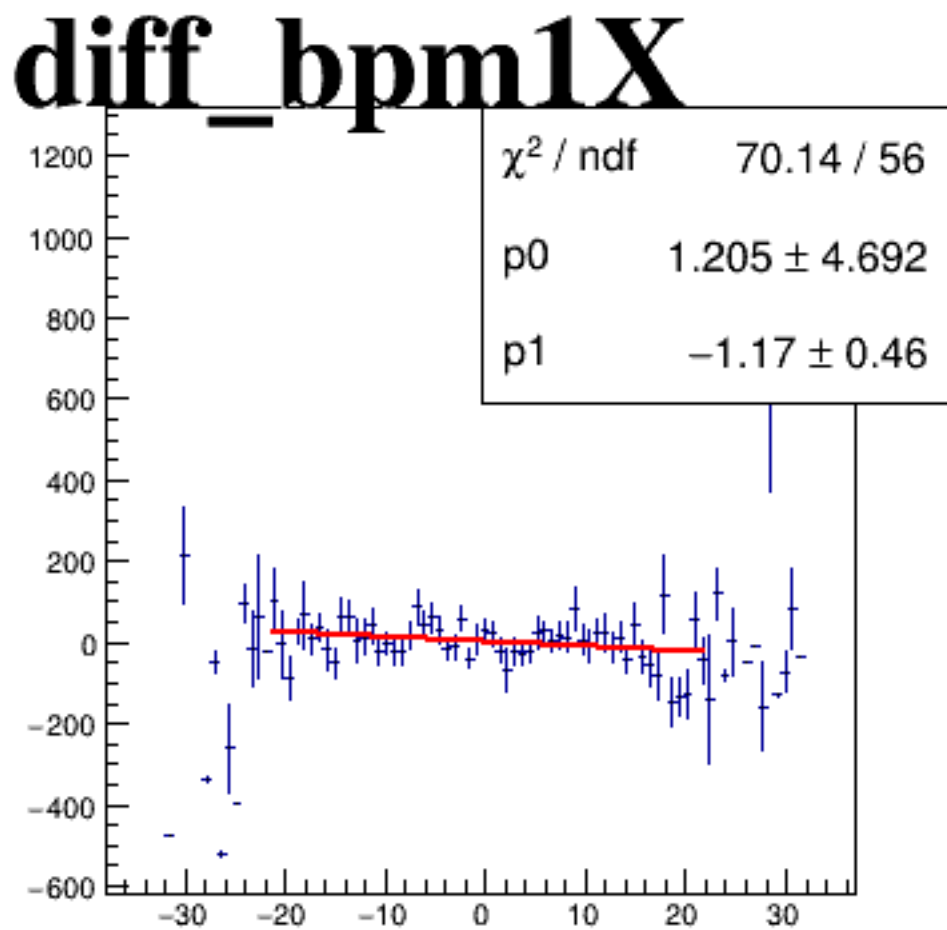
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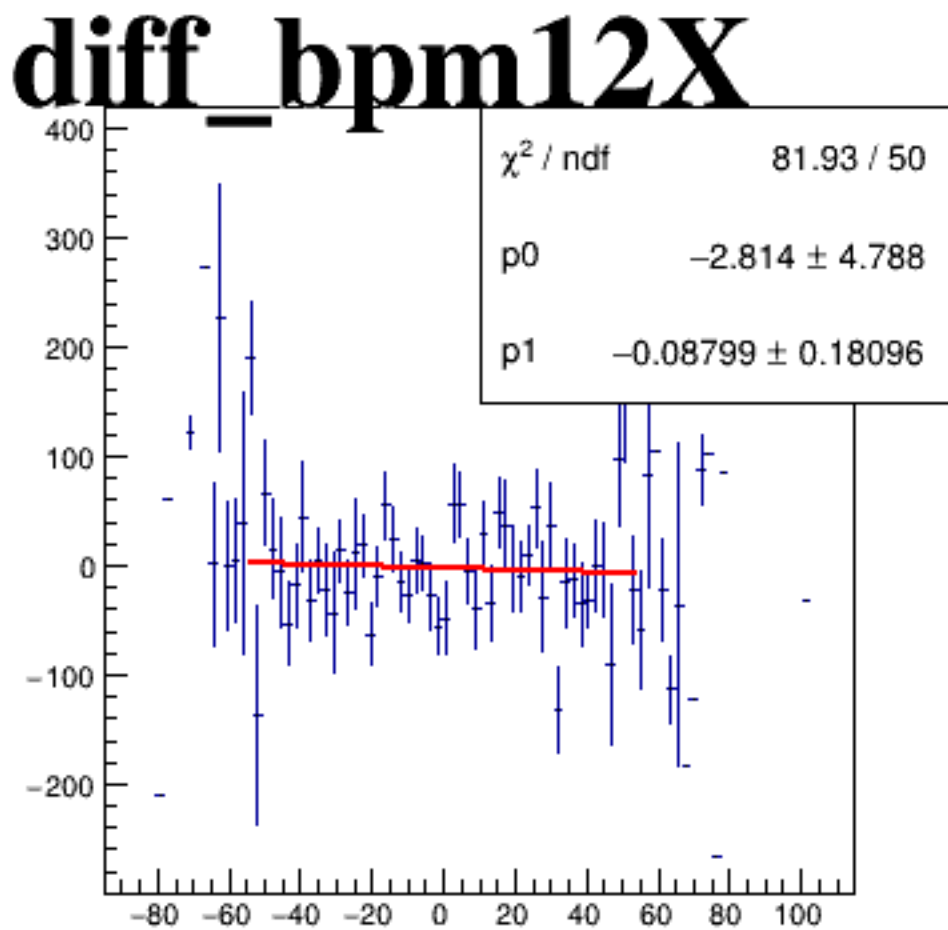
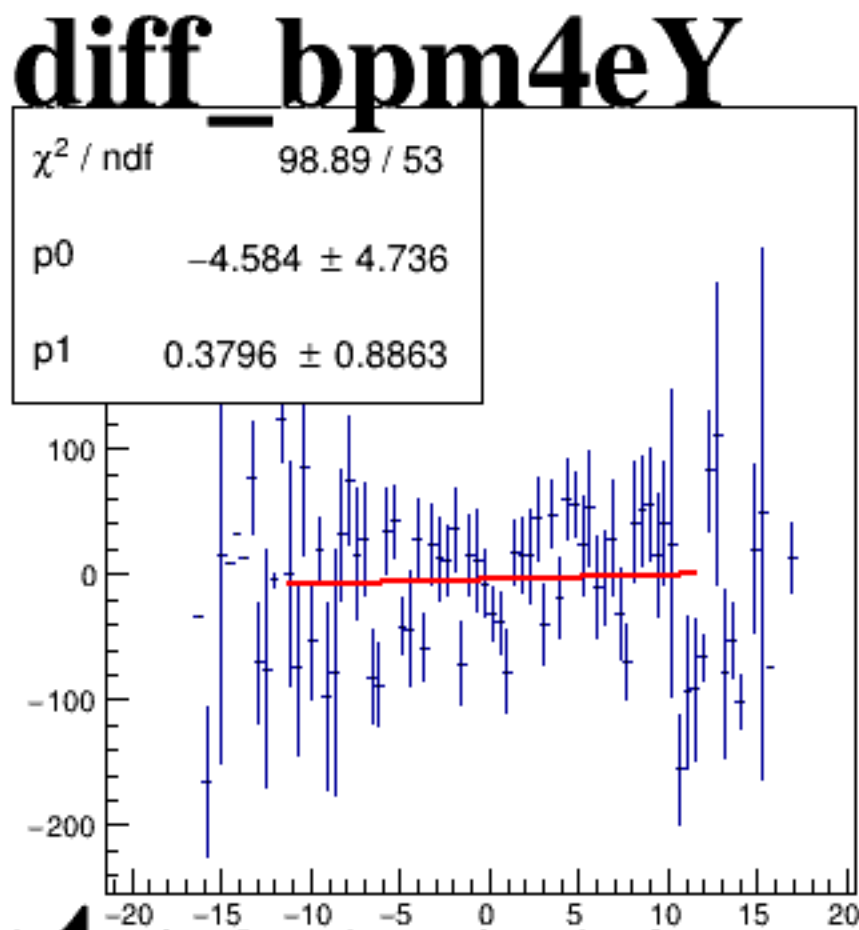
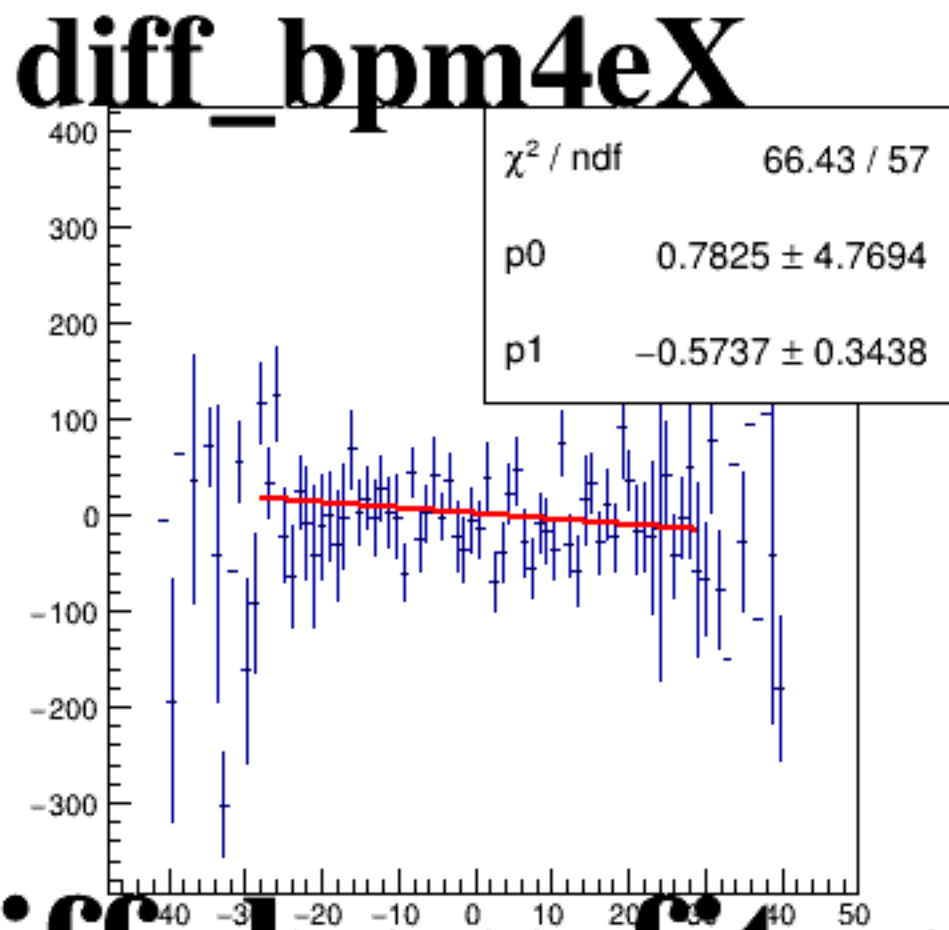
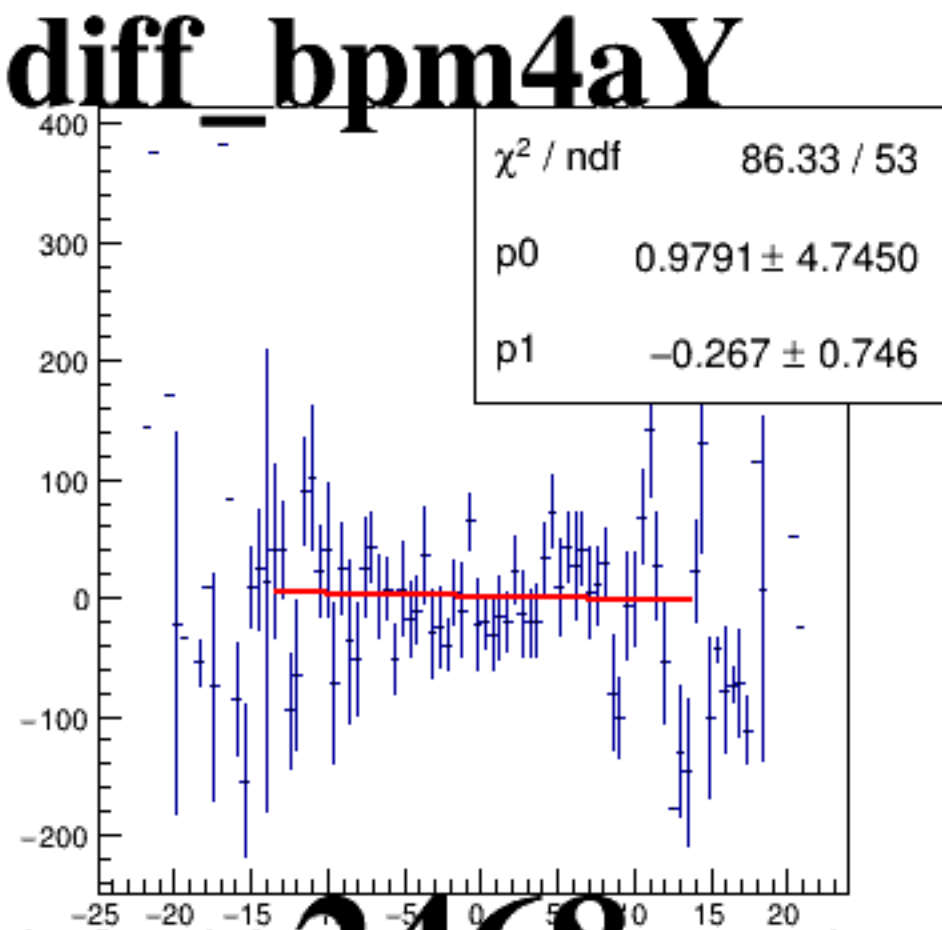
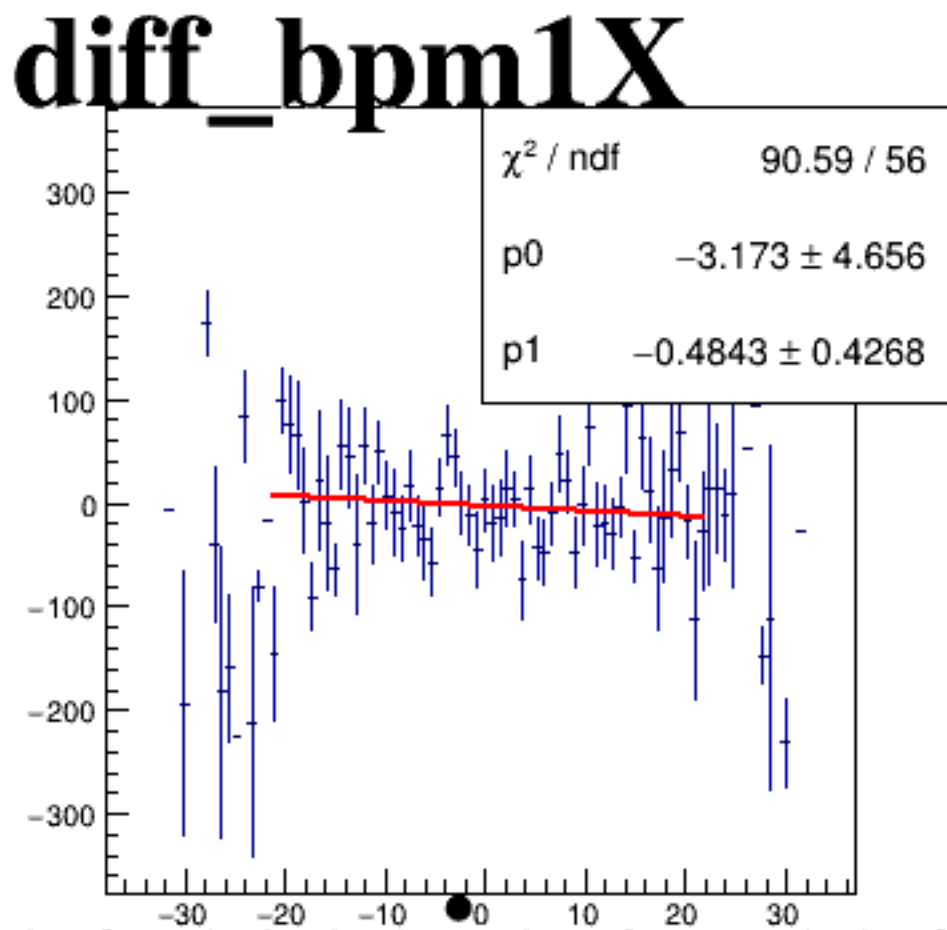
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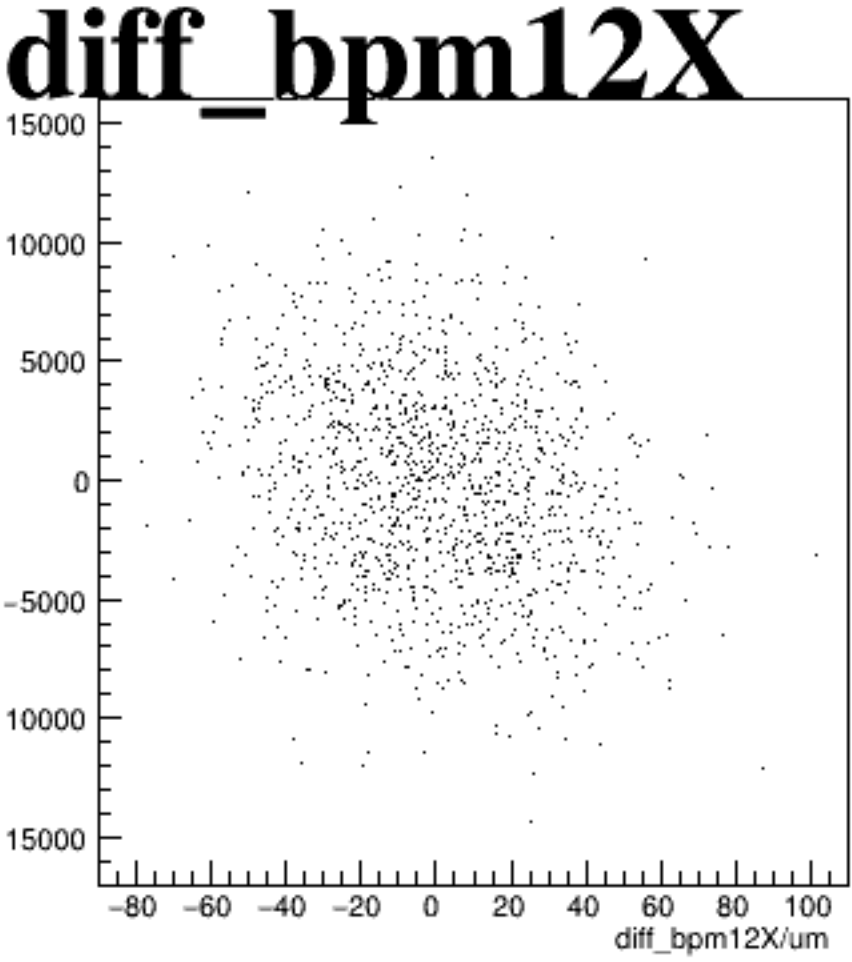
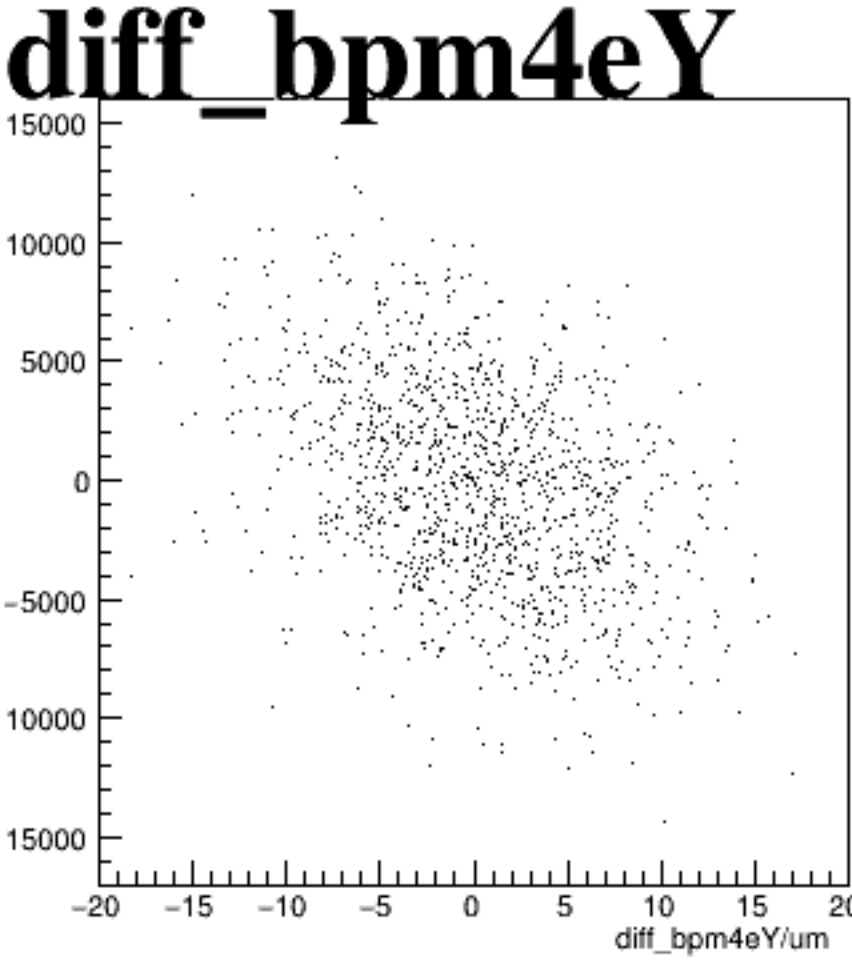
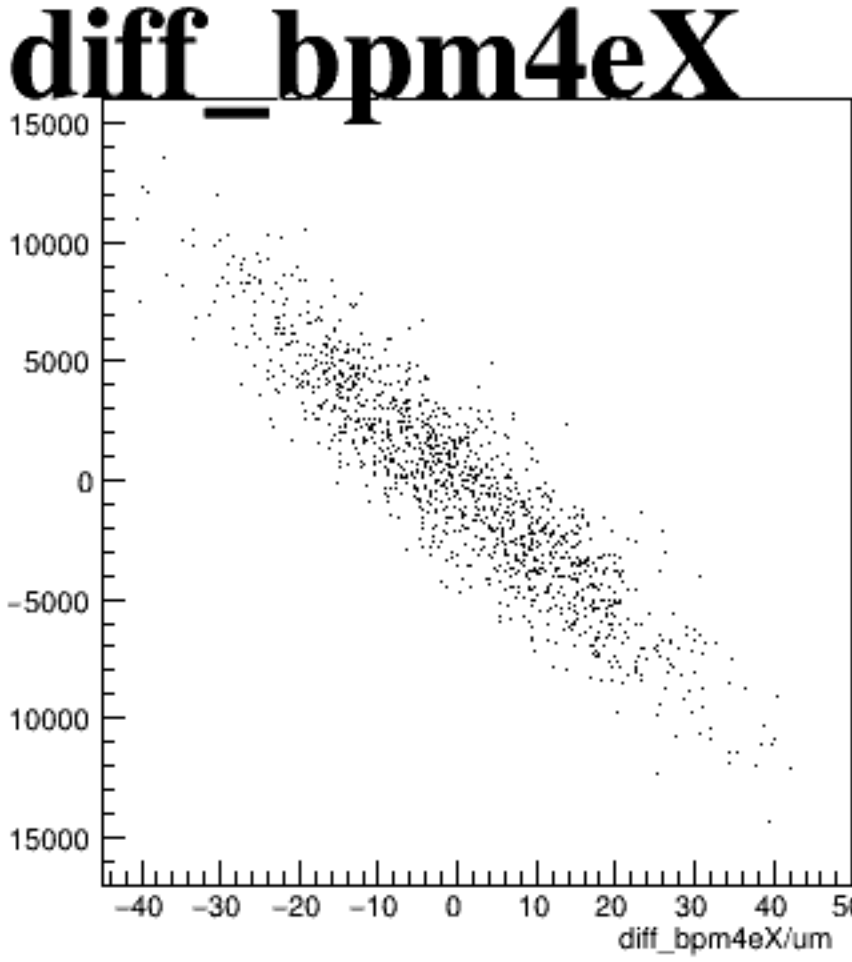
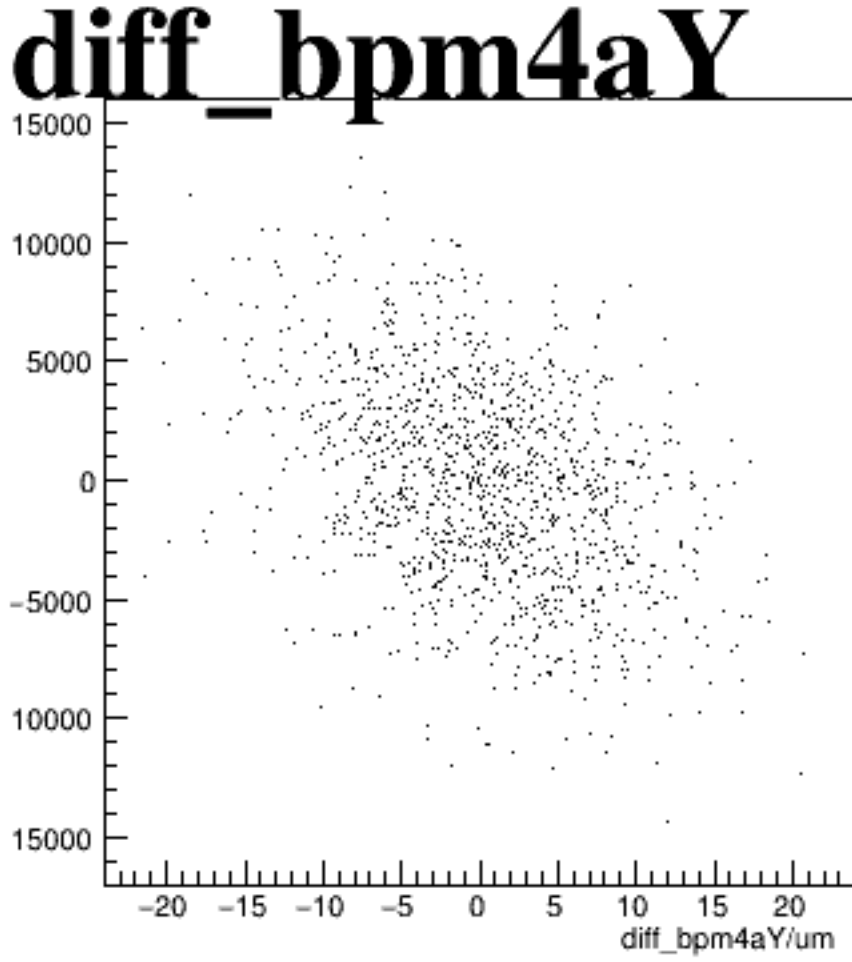
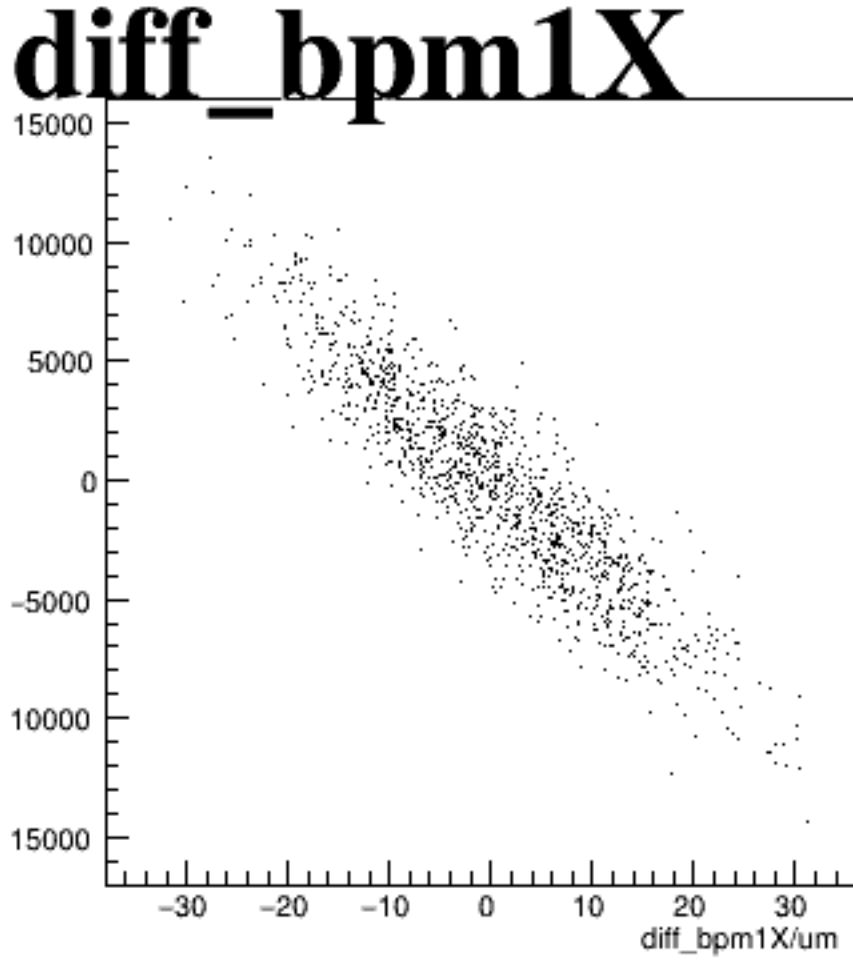
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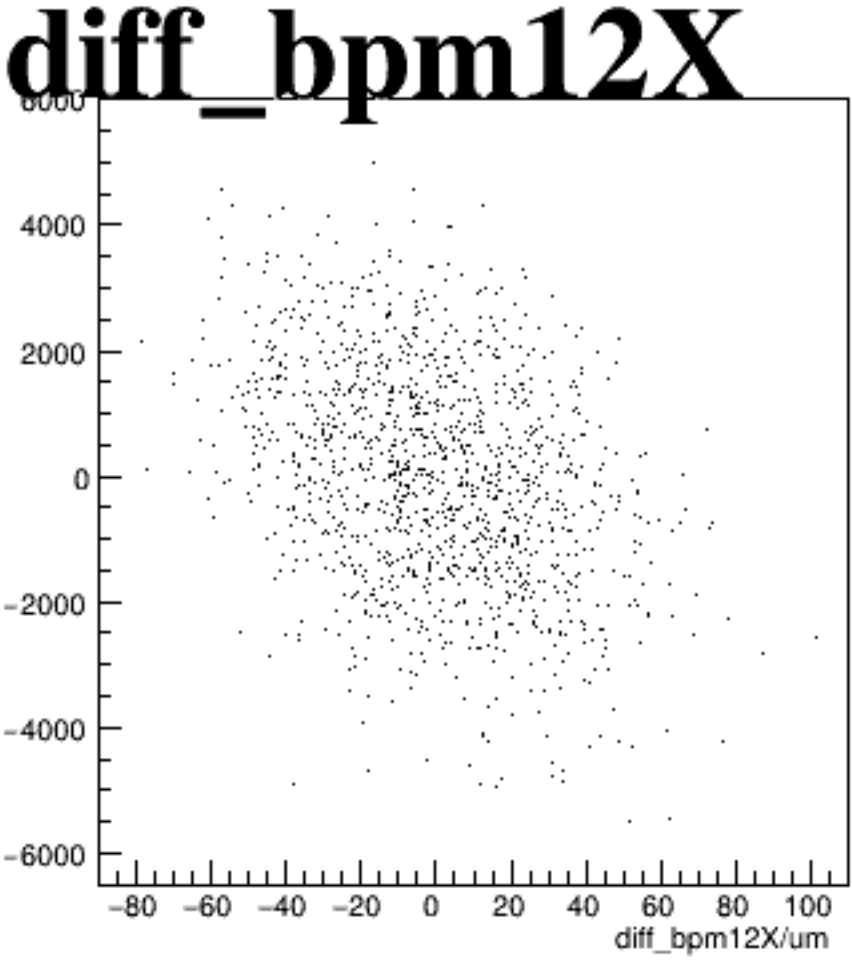
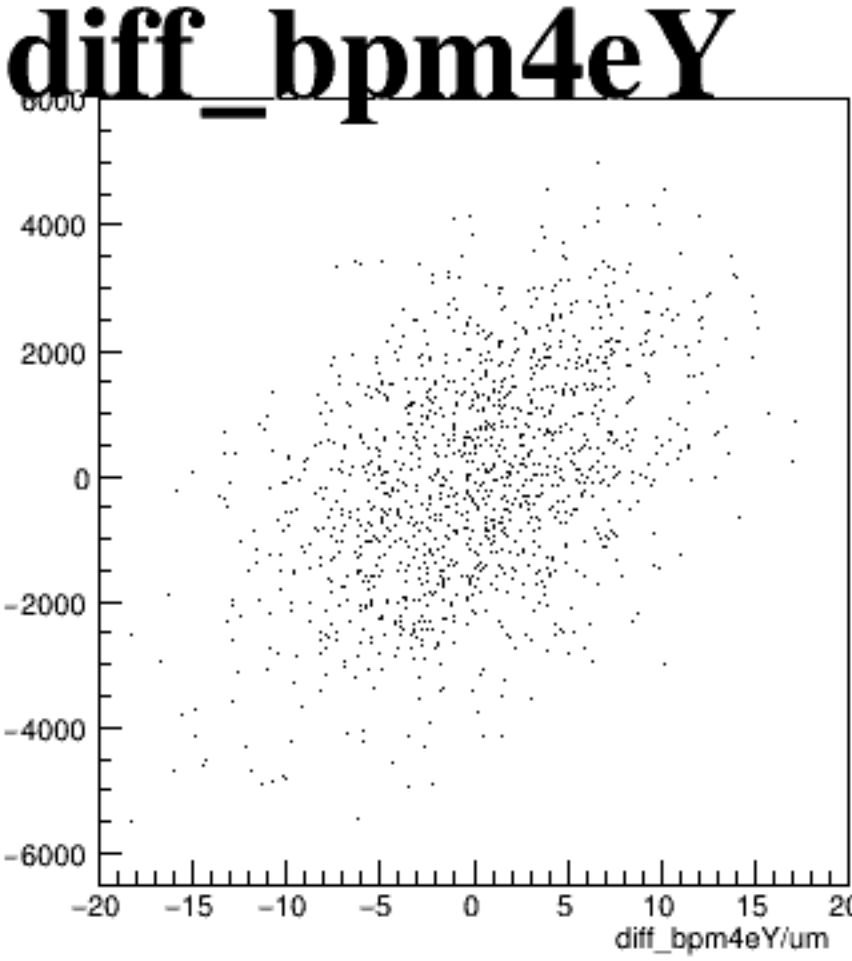
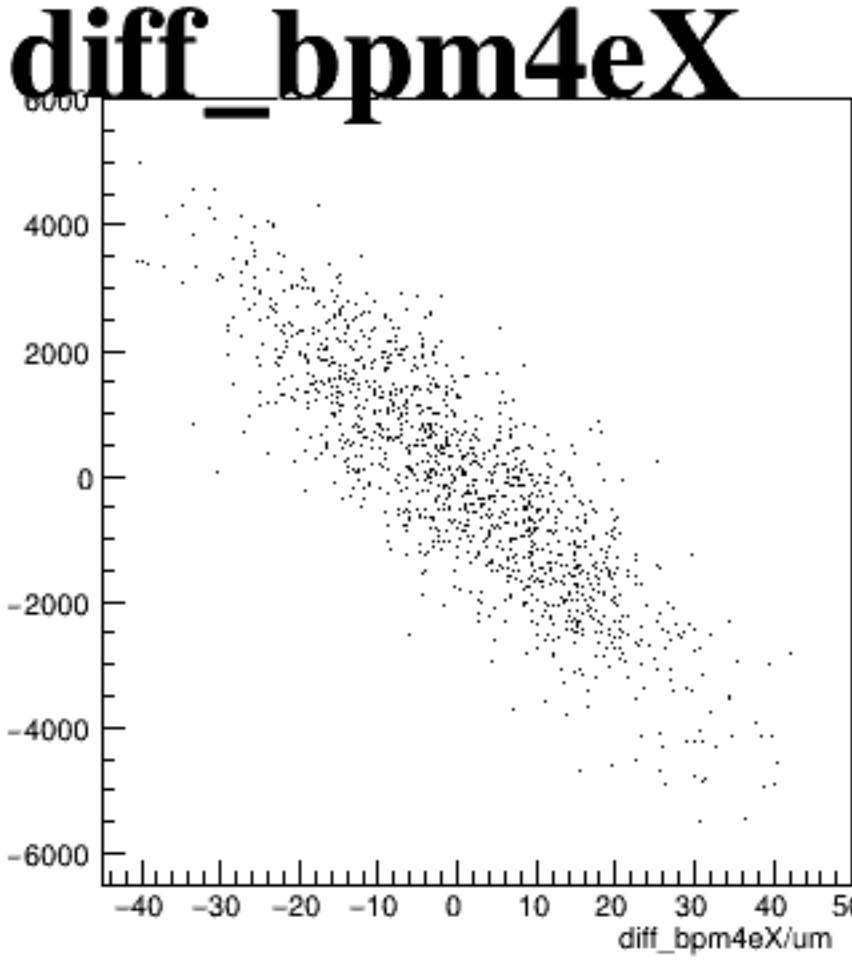
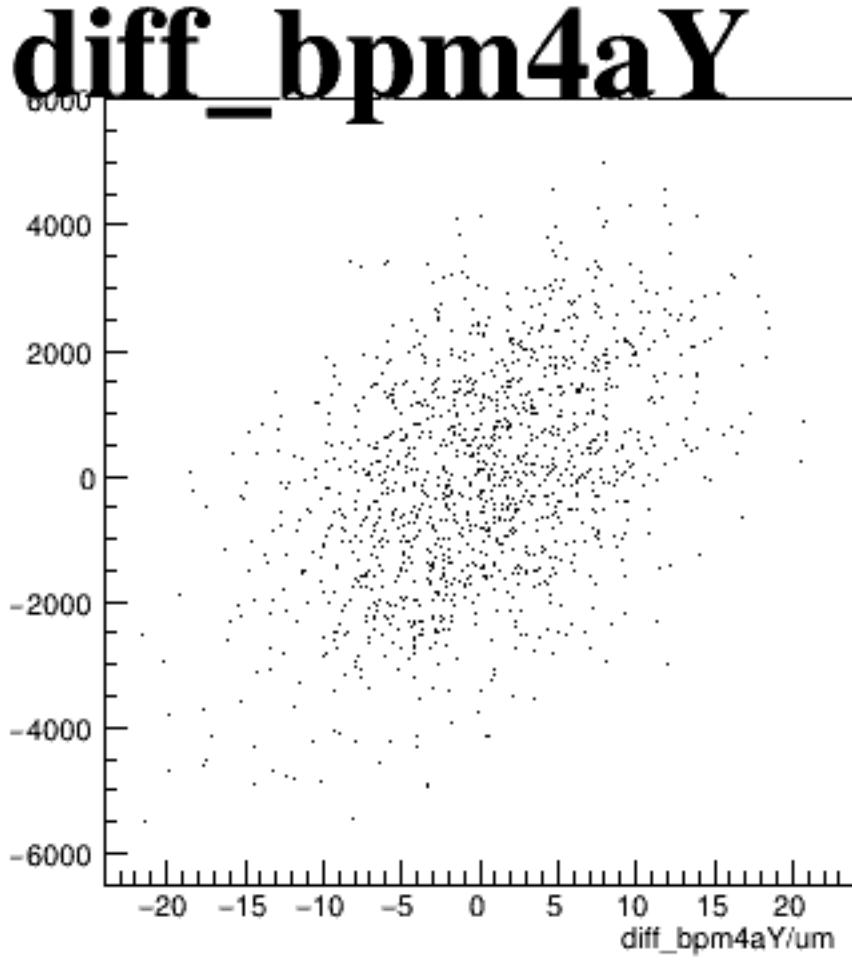
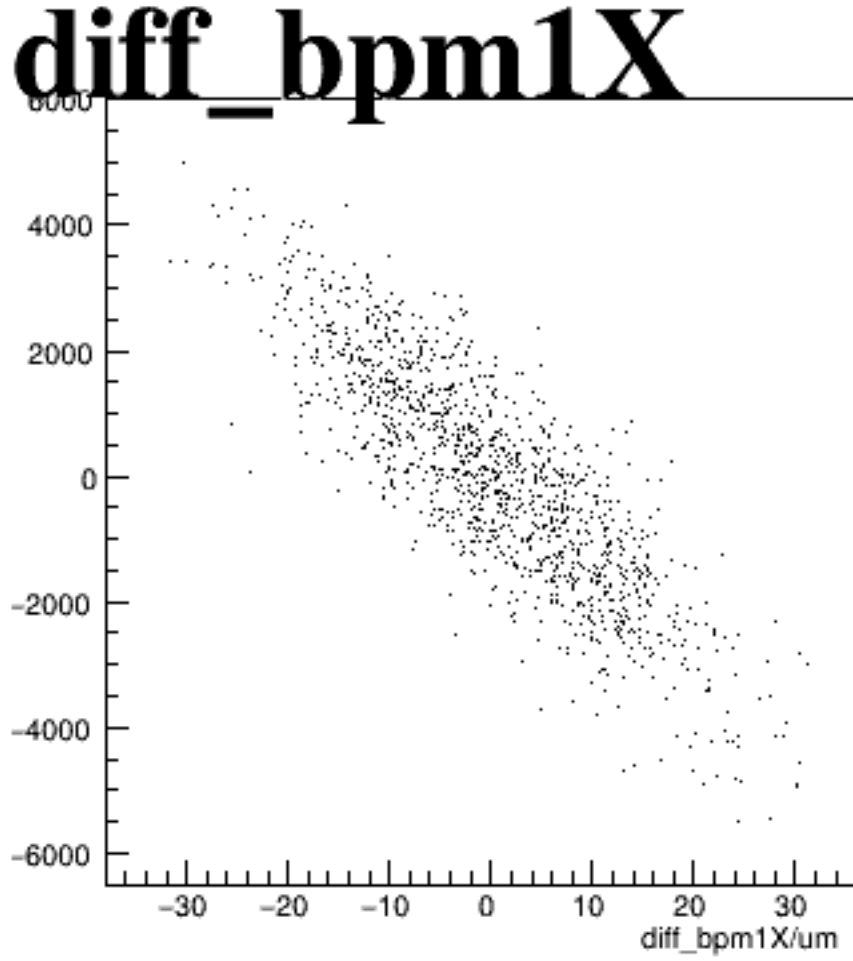
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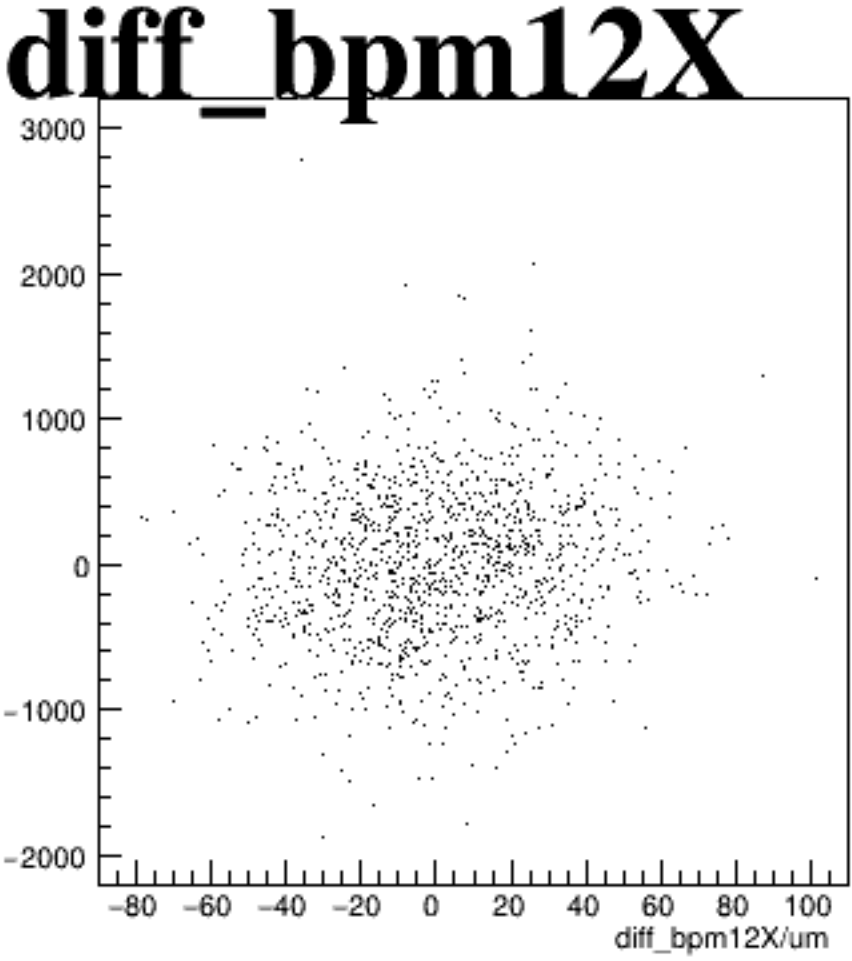
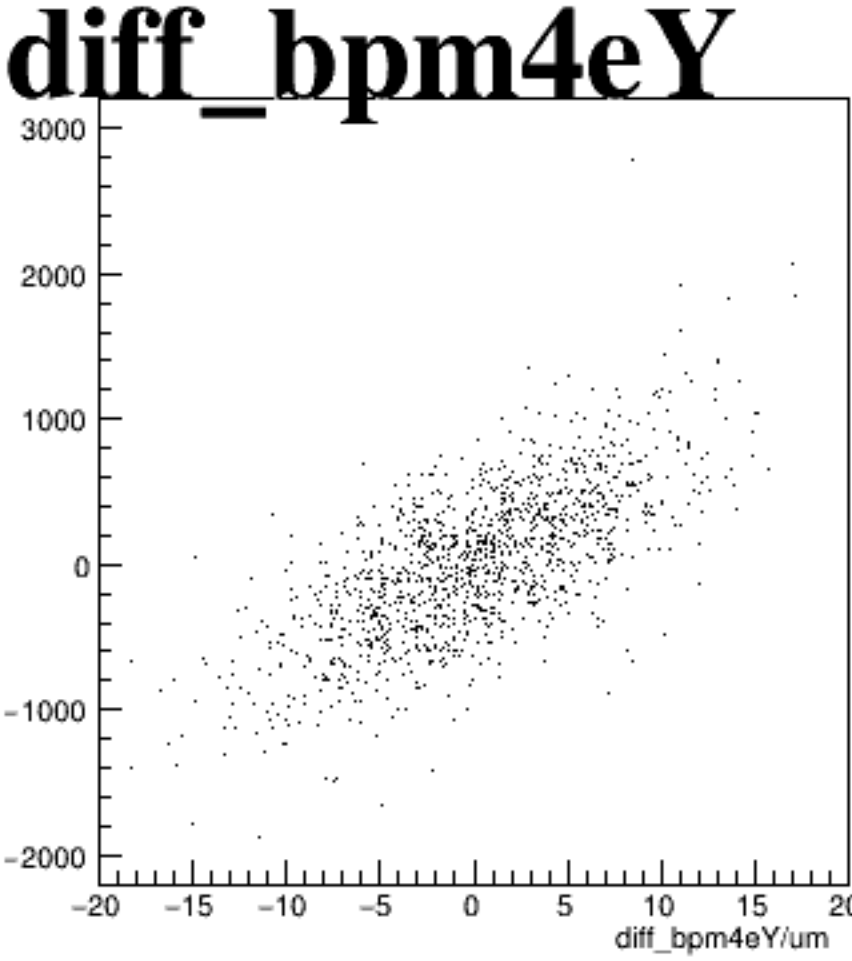
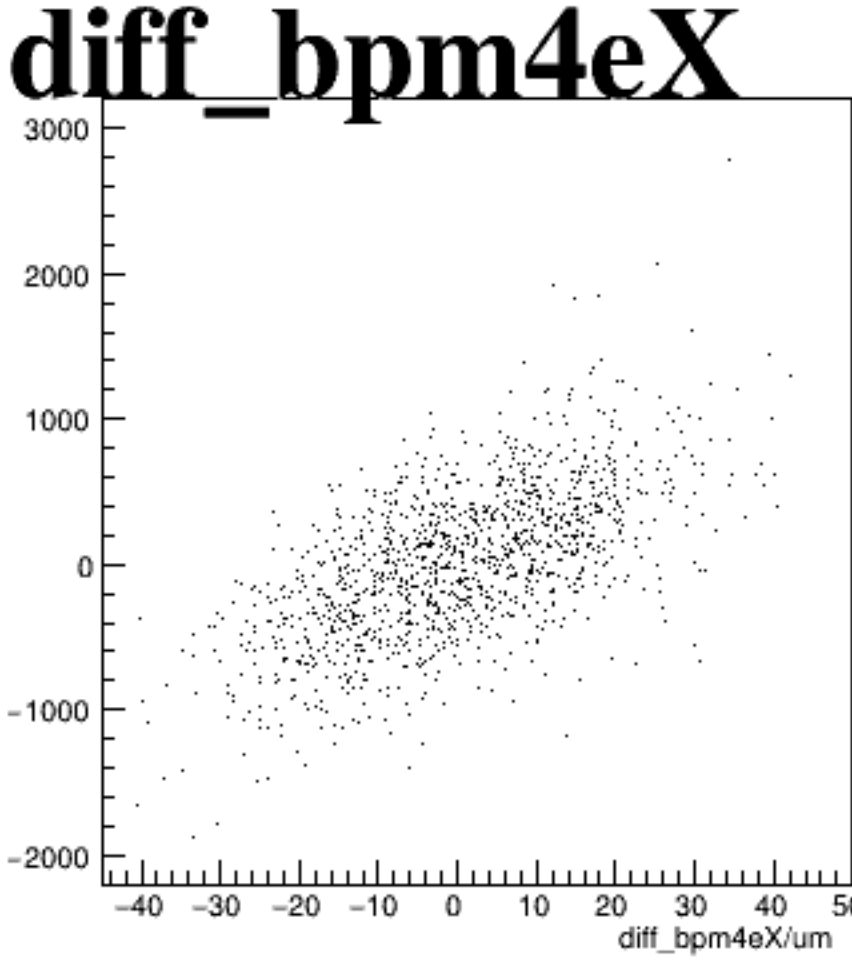
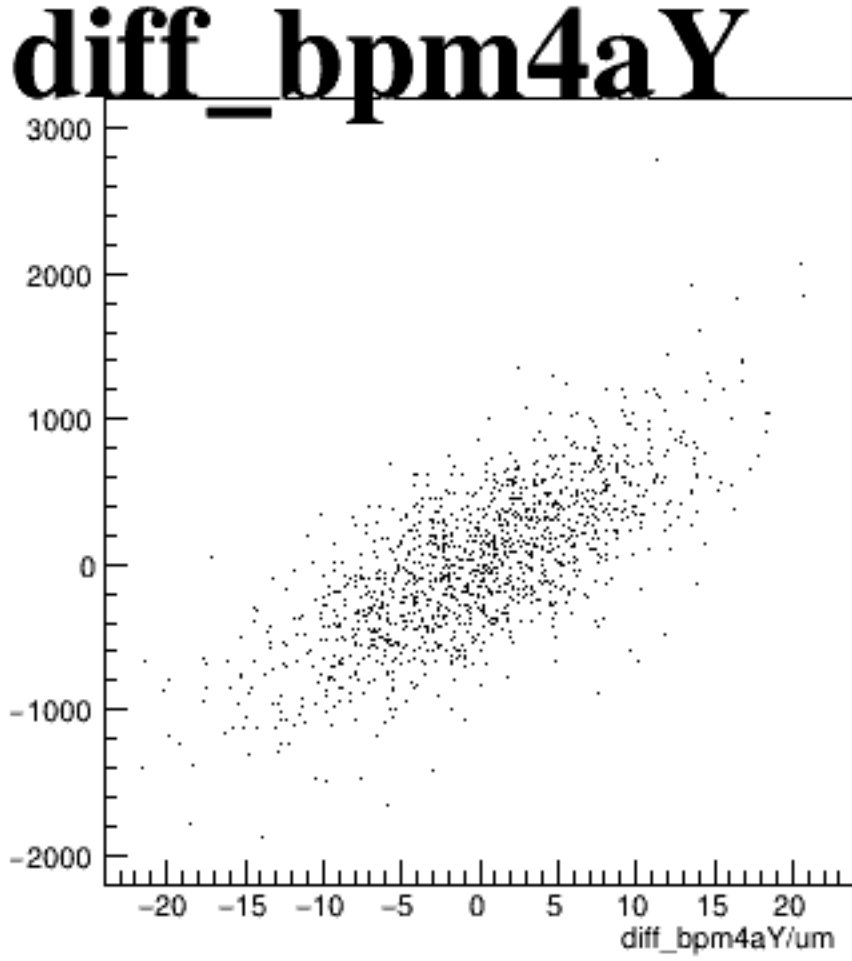
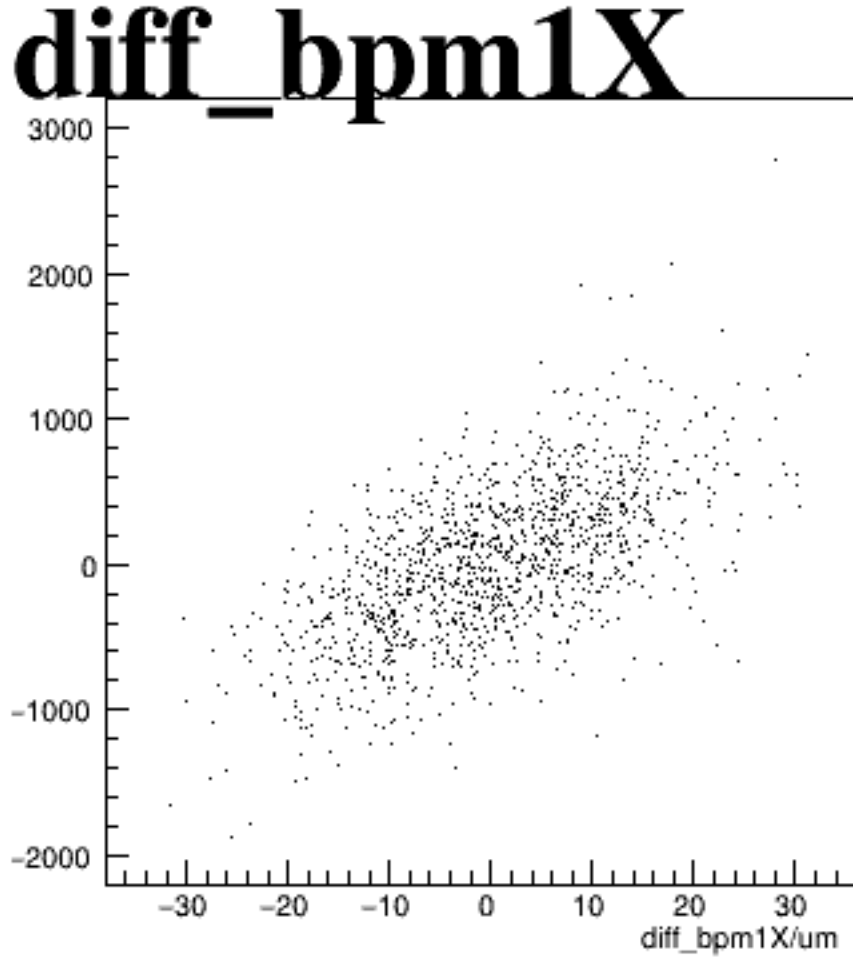
asym_sam2



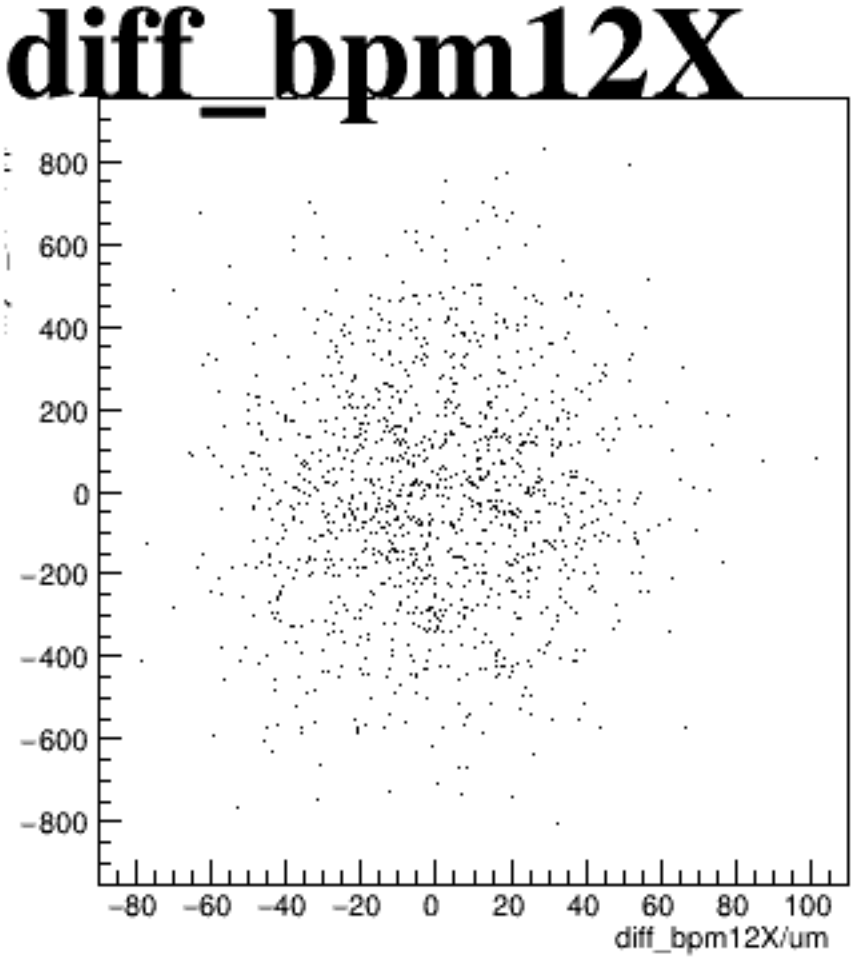
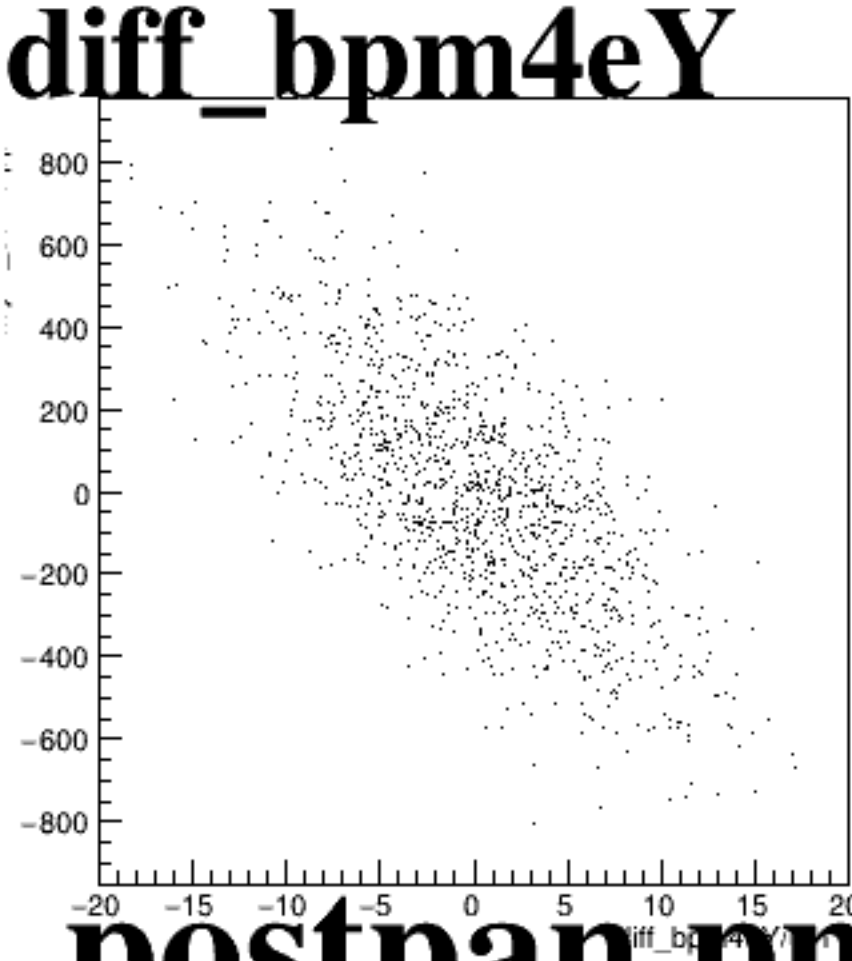
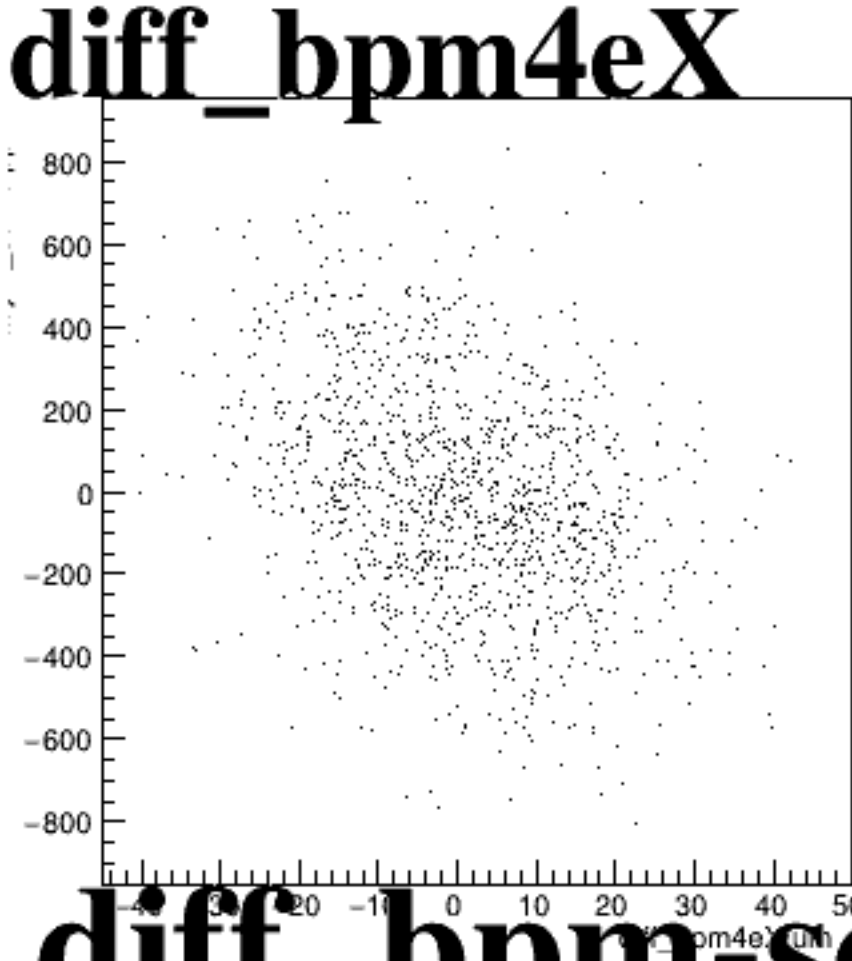
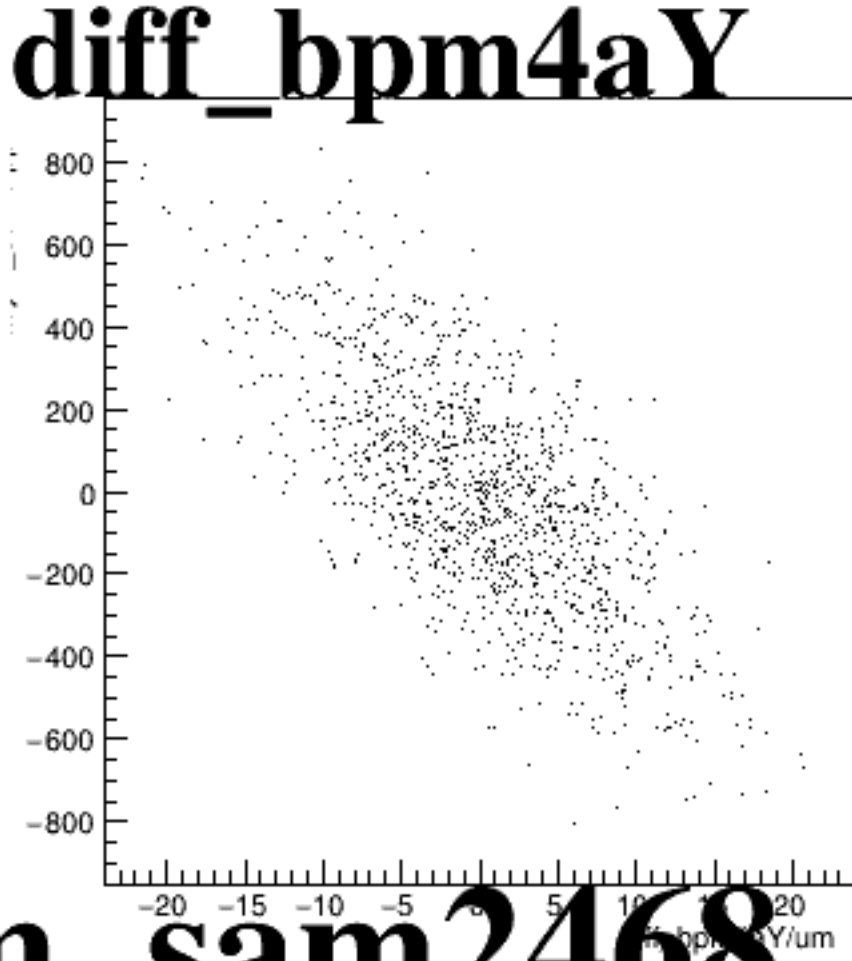
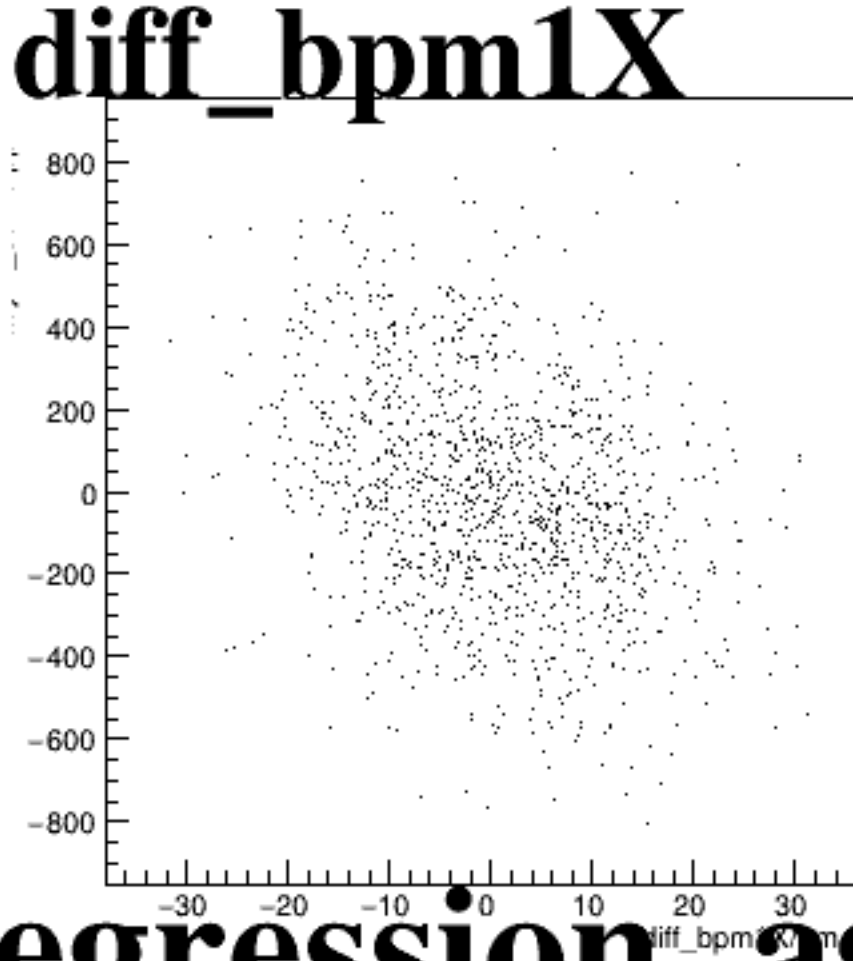
asym_sam4



asym_sam6



asym_sam8

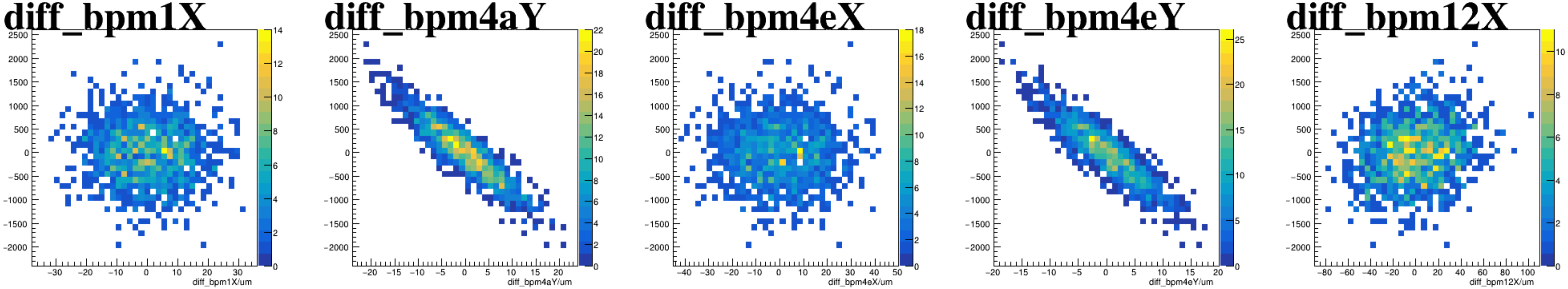


The figure consists of five scatter plots arranged horizontally, each showing the difference in BPM coordinates for a specific beam size. The plots are titled as follows:

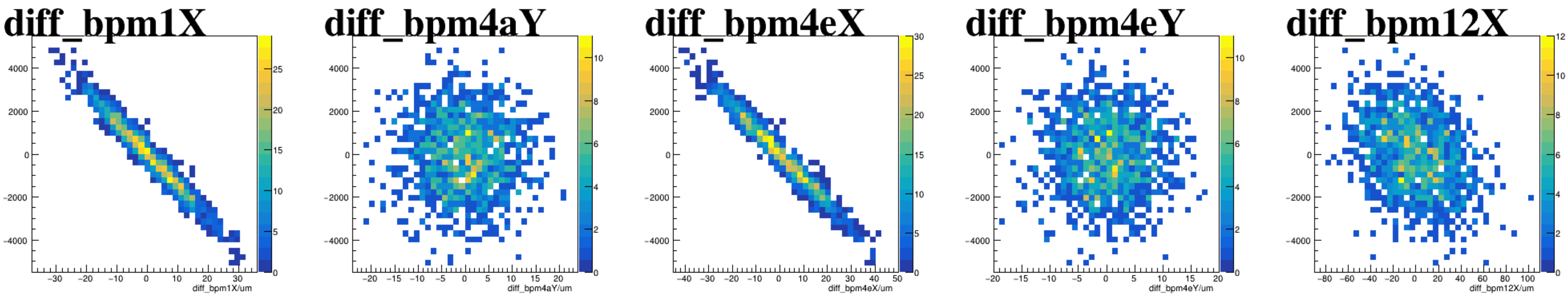
- diff_bpm1X**: The x-axis is labeled $\text{diff_bpm1X}/\mu\text{m}$ and ranges from -30 to 30. The y-axis is labeled $\text{diff_bpm1Y}/\mu\text{m}$ and ranges from -3000 to 3000.
- diff_bpm4aY**: The x-axis is labeled $\text{diff_bpm4aX}/\mu\text{m}$ and ranges from -20 to 20. The y-axis is labeled $\text{diff_bpm4aY}/\mu\text{m}$ and ranges from -3000 to 3000.
- diff_bpm4eX**: The x-axis is labeled $\text{diff_bpm4eX}/\mu\text{m}$ and ranges from -40 to 50. The y-axis is labeled $\text{diff_bpm4eY}/\mu\text{m}$ and ranges from -3000 to 3000.
- diff_bpm4eY**: The x-axis is labeled $\text{diff_bpm4eX}/\mu\text{m}$ and ranges from -20 to 20. The y-axis is labeled $\text{diff_bpm4eY}/\mu\text{m}$ and ranges from -3000 to 3000.
- diff_bpm12X**: The x-axis is labeled $\text{diff_bpm12X}/\mu\text{m}$ and ranges from -80 to 100. The y-axis is labeled $\text{diff_bpm12Y}/\mu\text{m}$ and ranges from -3000 to 3000.

All plots show a dense cloud of points centered around the origin, indicating that the difference in BPM coordinates is small for all beam sizes. The beam sizes are 1, 4a, 4e, 4e, and 12 mm, respectively.

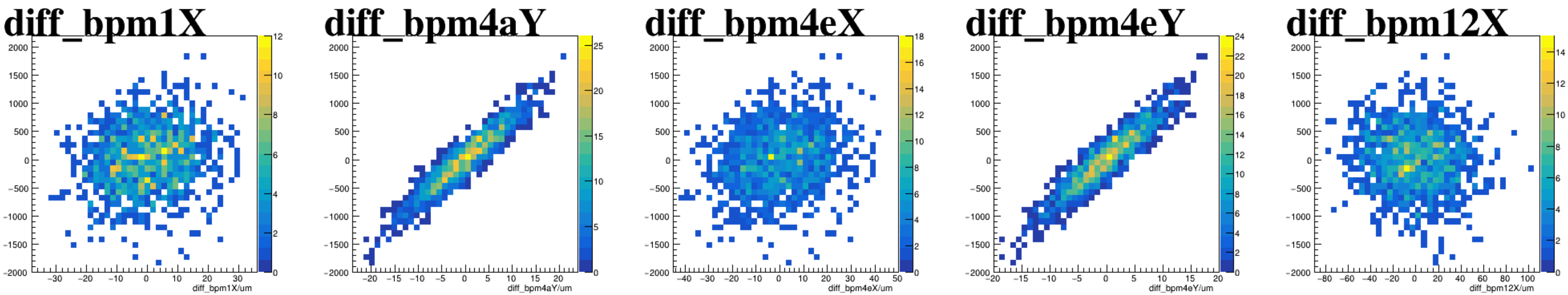
asym_sam1



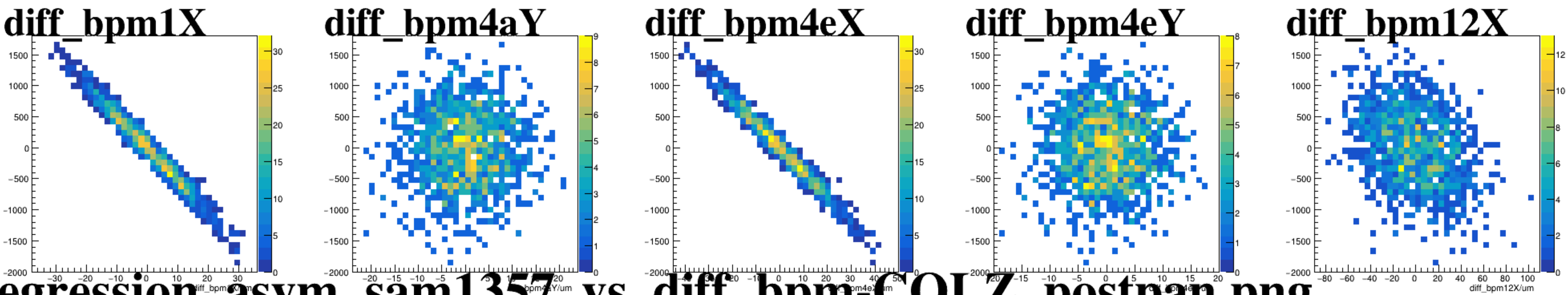
asym_sam3



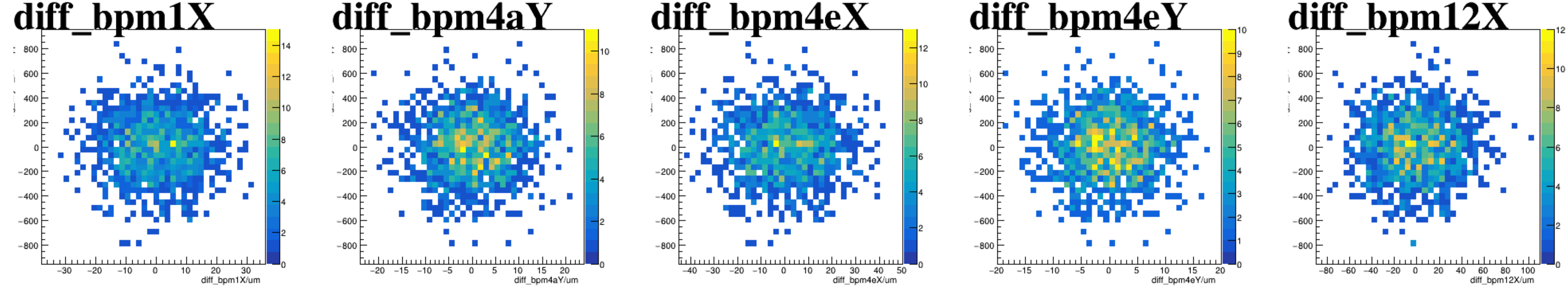
asym_sam5



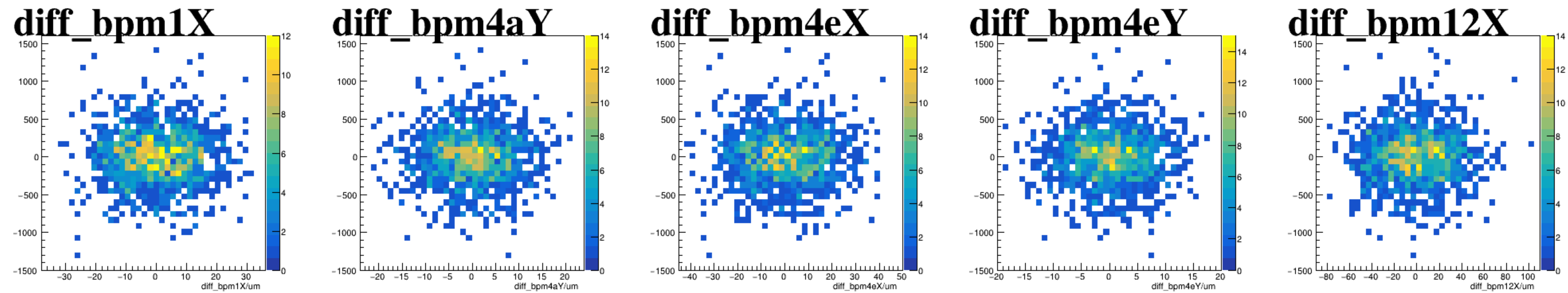
asym_sam7



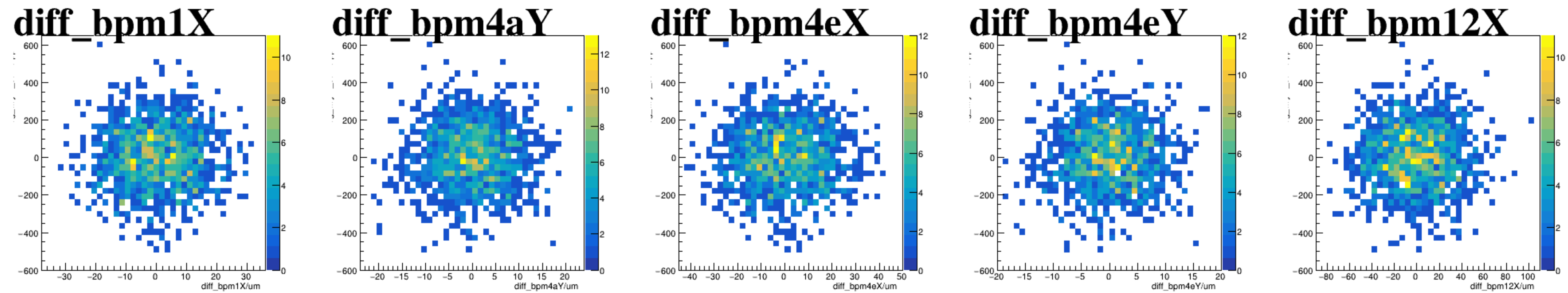
reg_asym_sam1



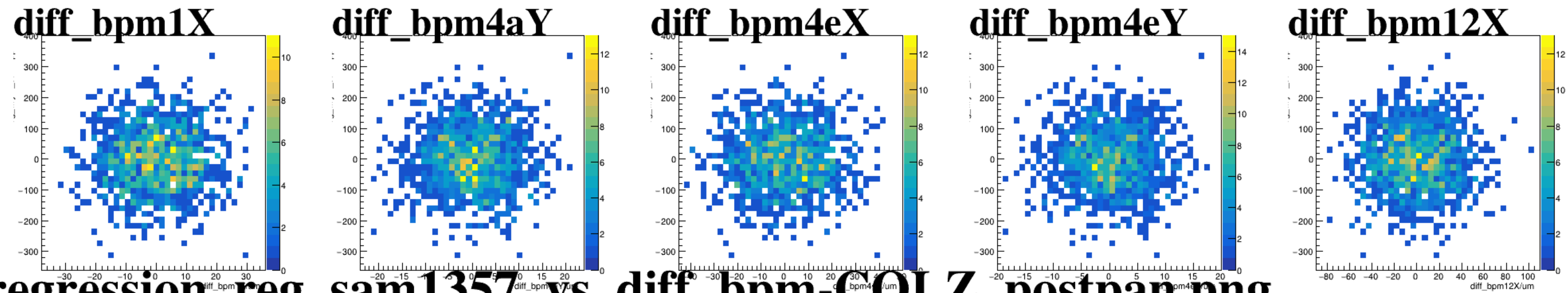
reg_asym_sam3



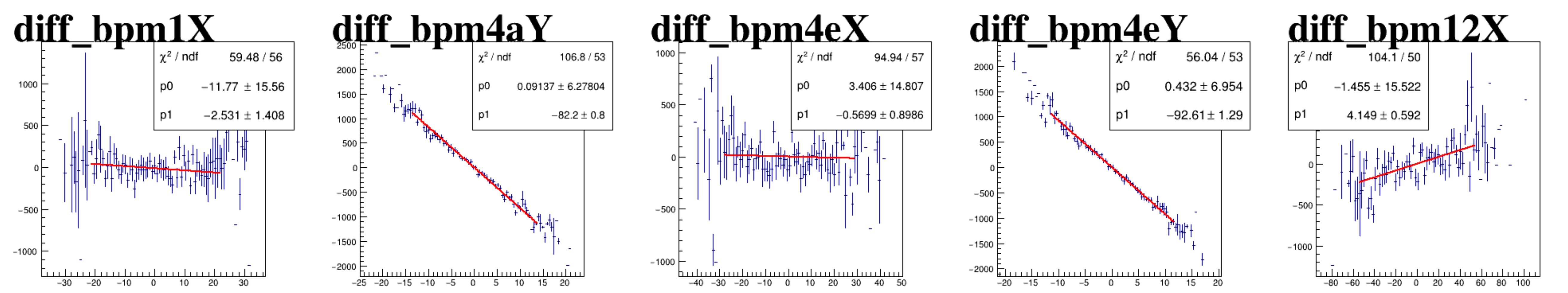
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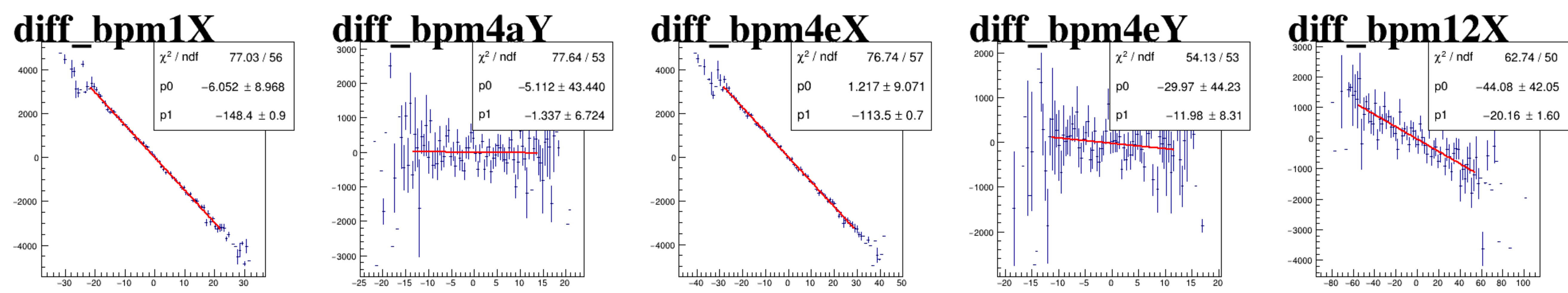
reg_asym_sam7



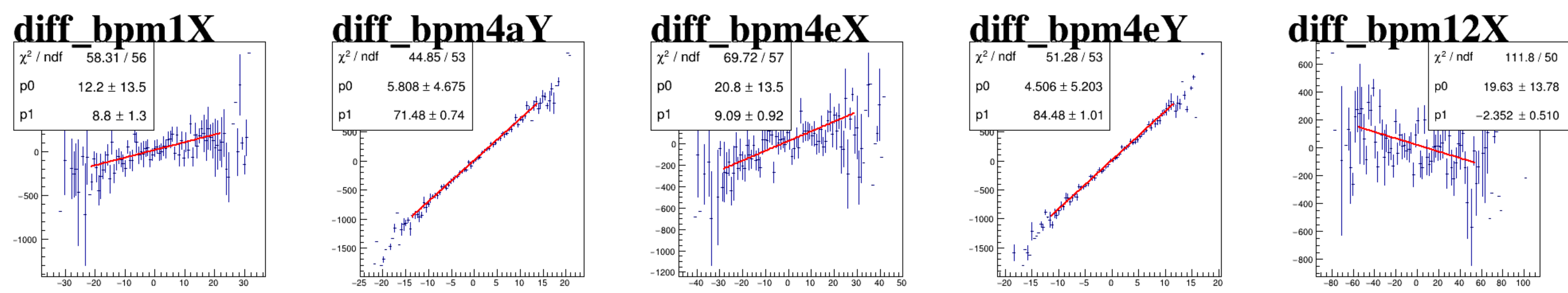
asym_sam1



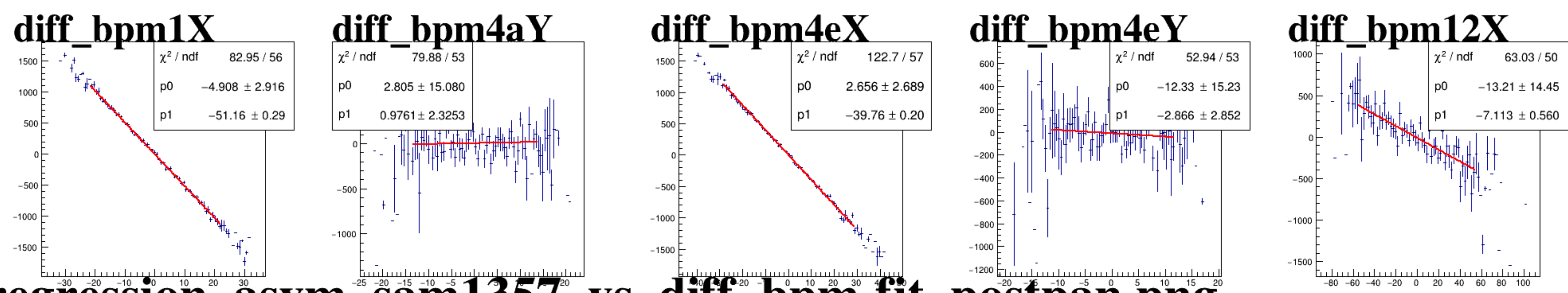
asym_sam3



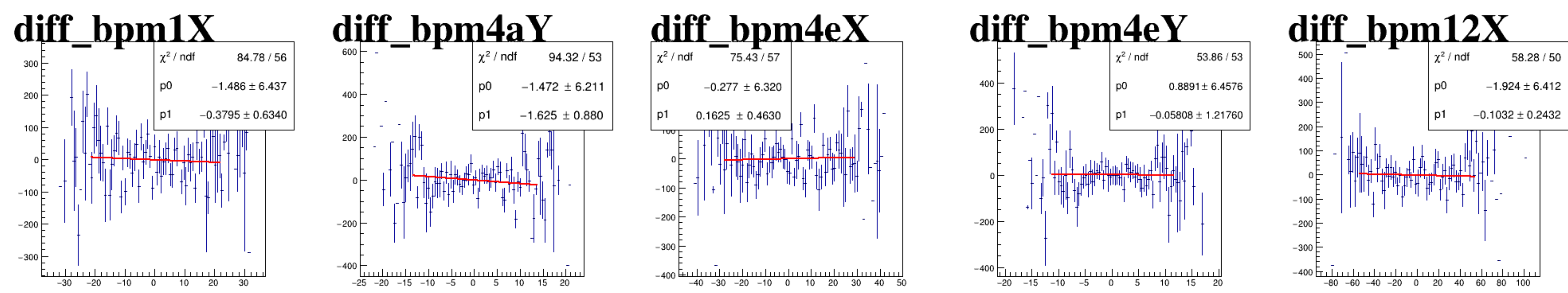
asym_sam5



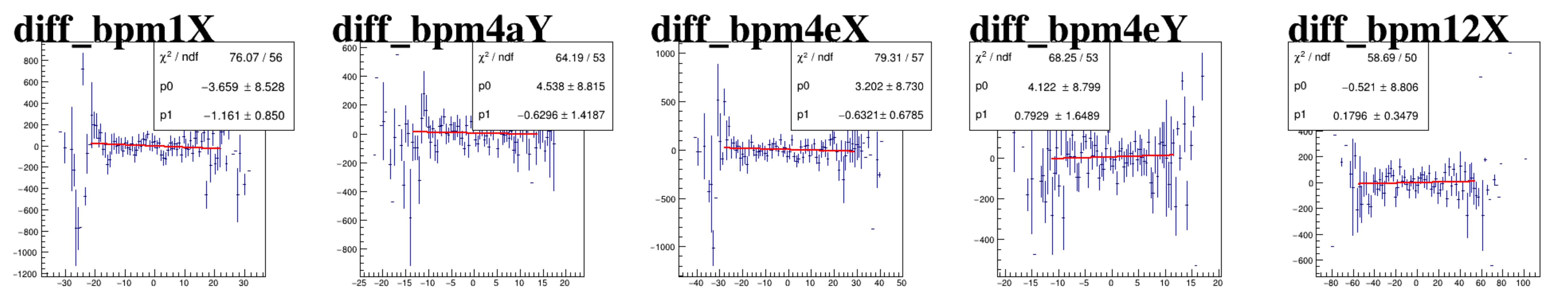
asym_sam7



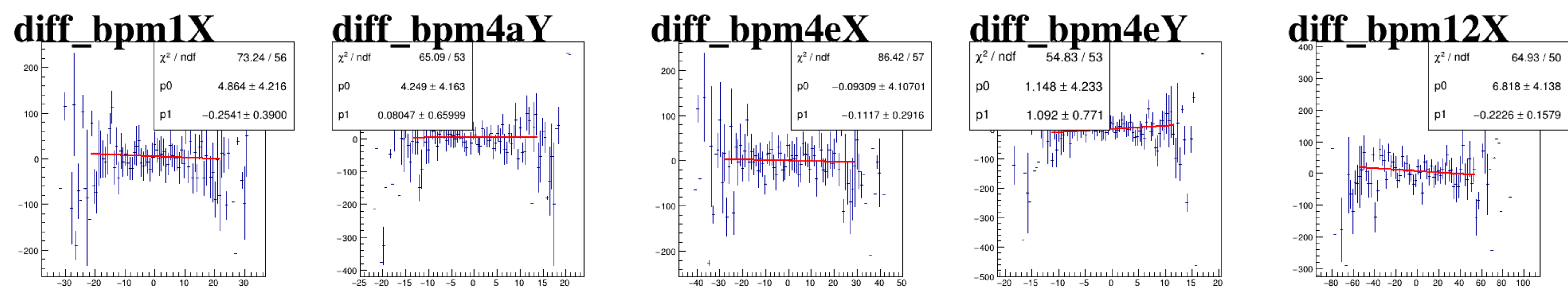
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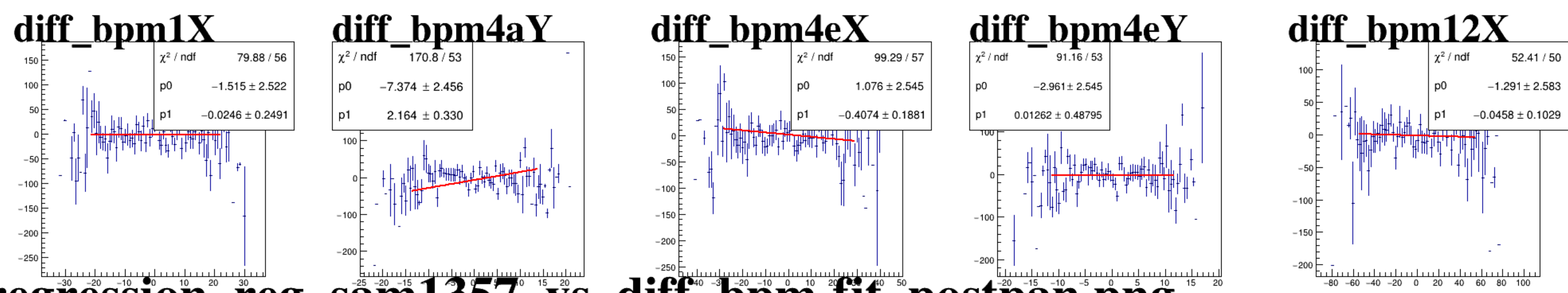
reg_asym_sam3



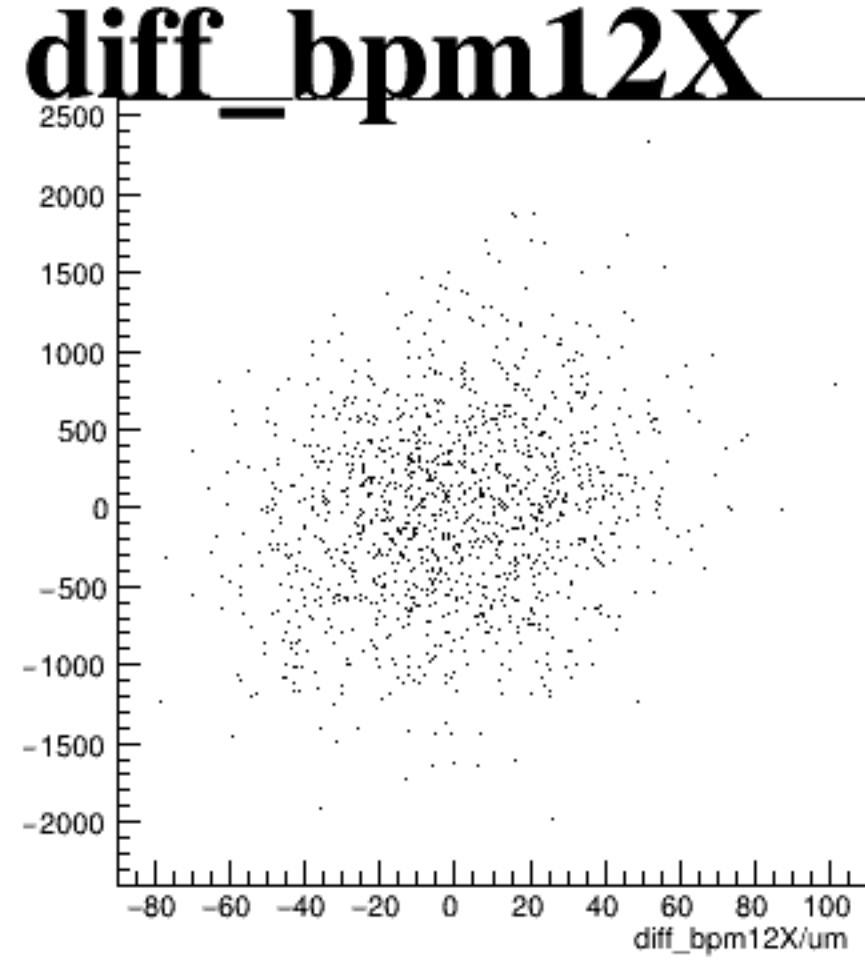
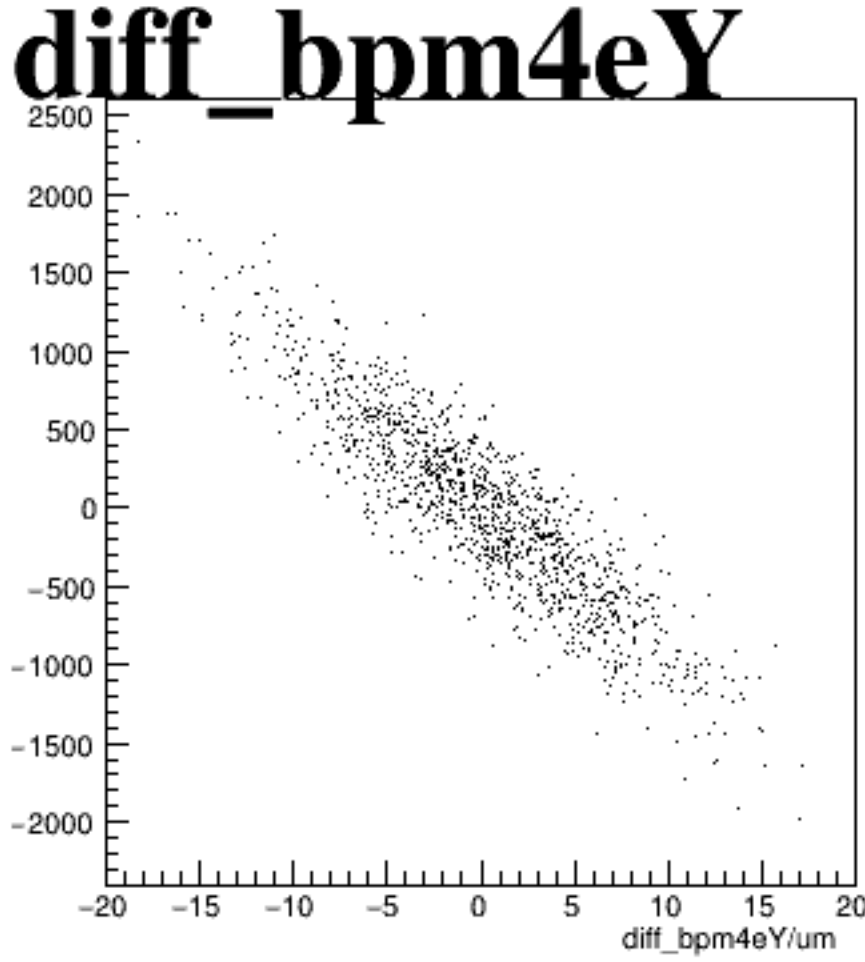
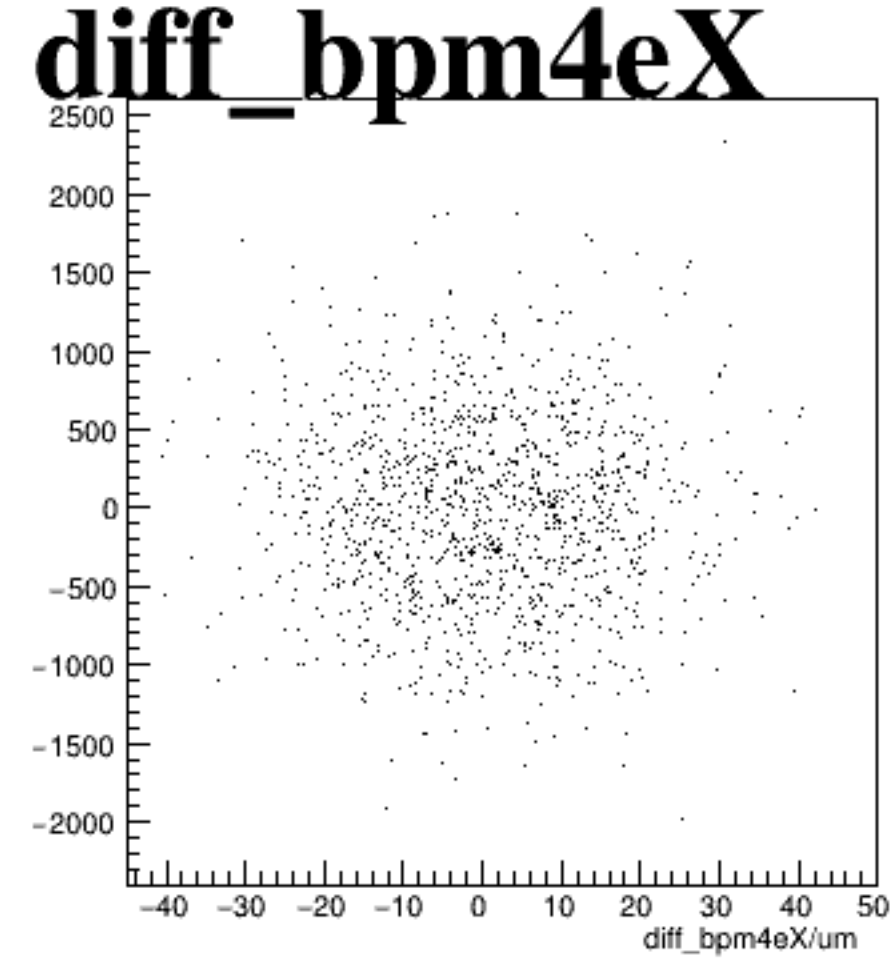
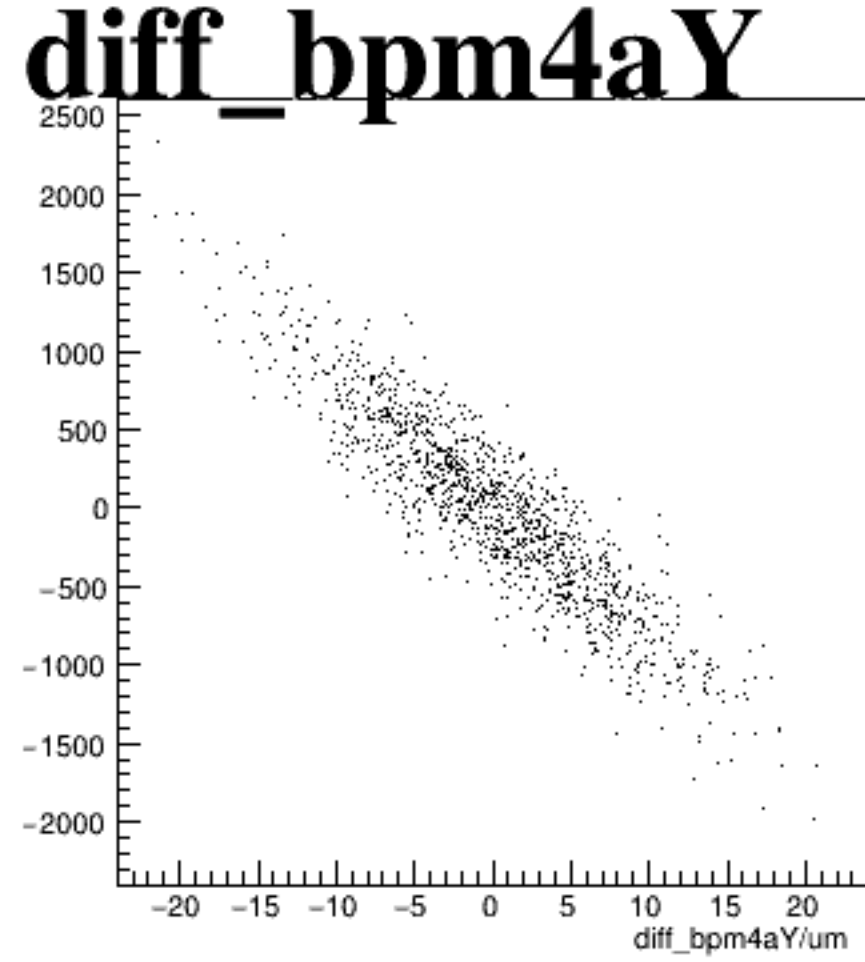
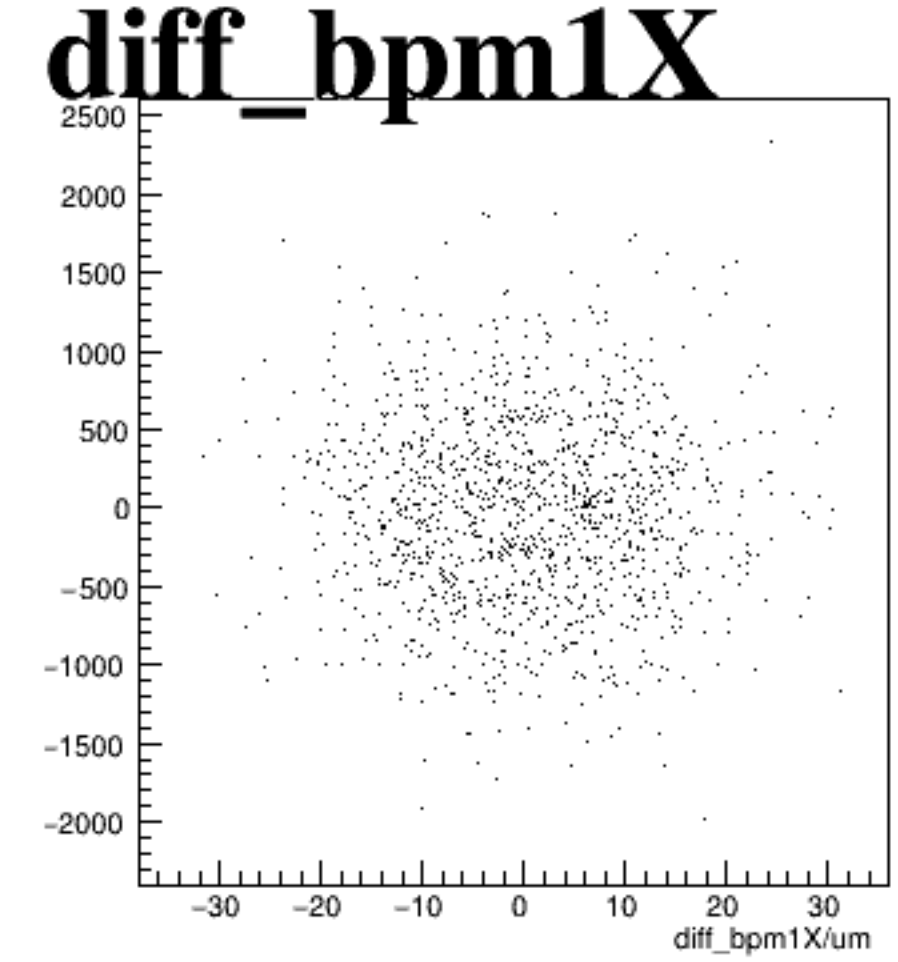
reg_asym_sam5



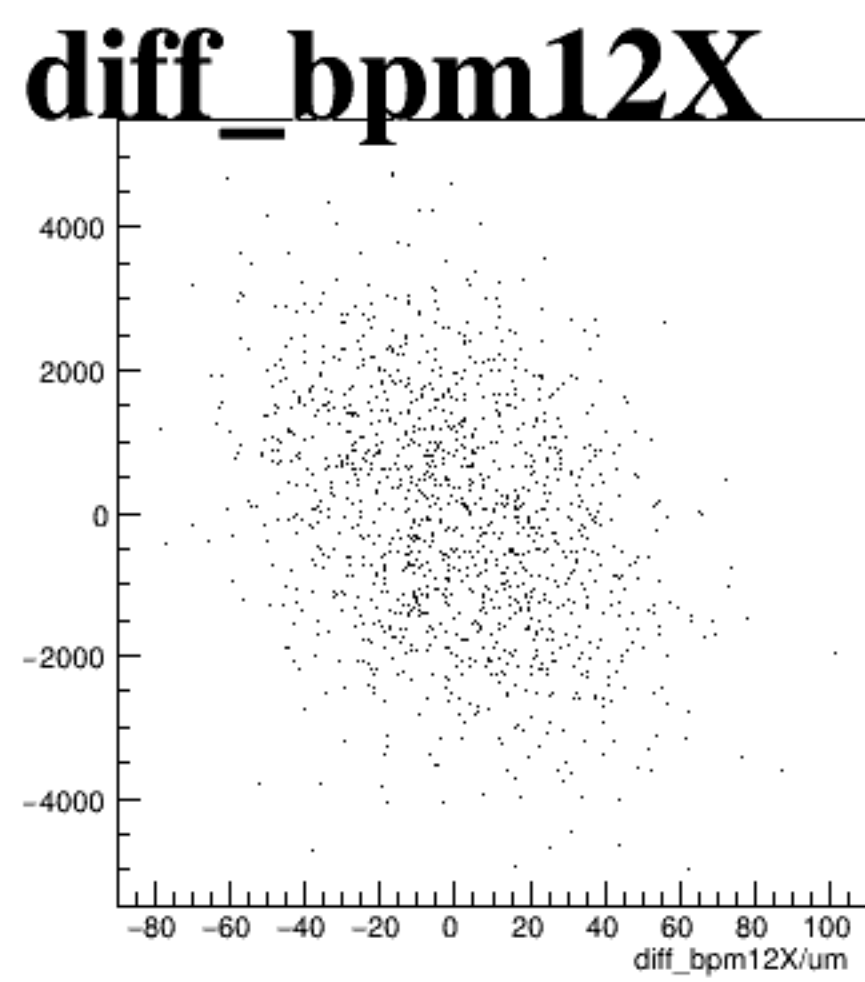
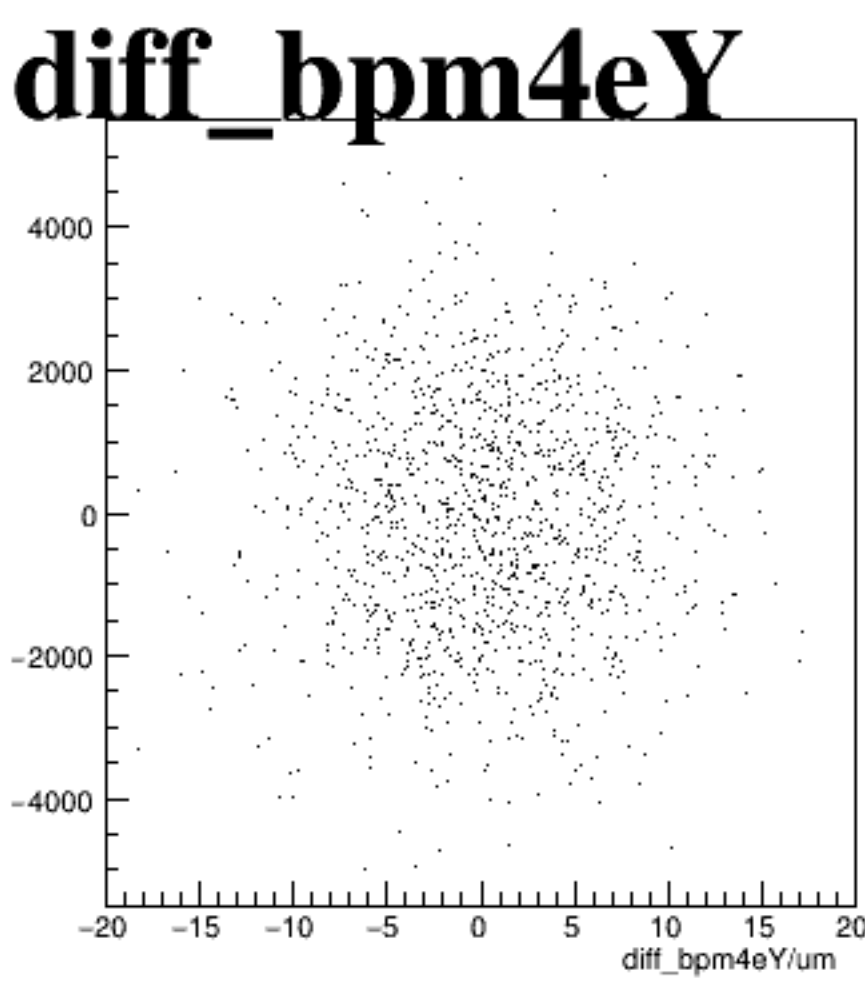
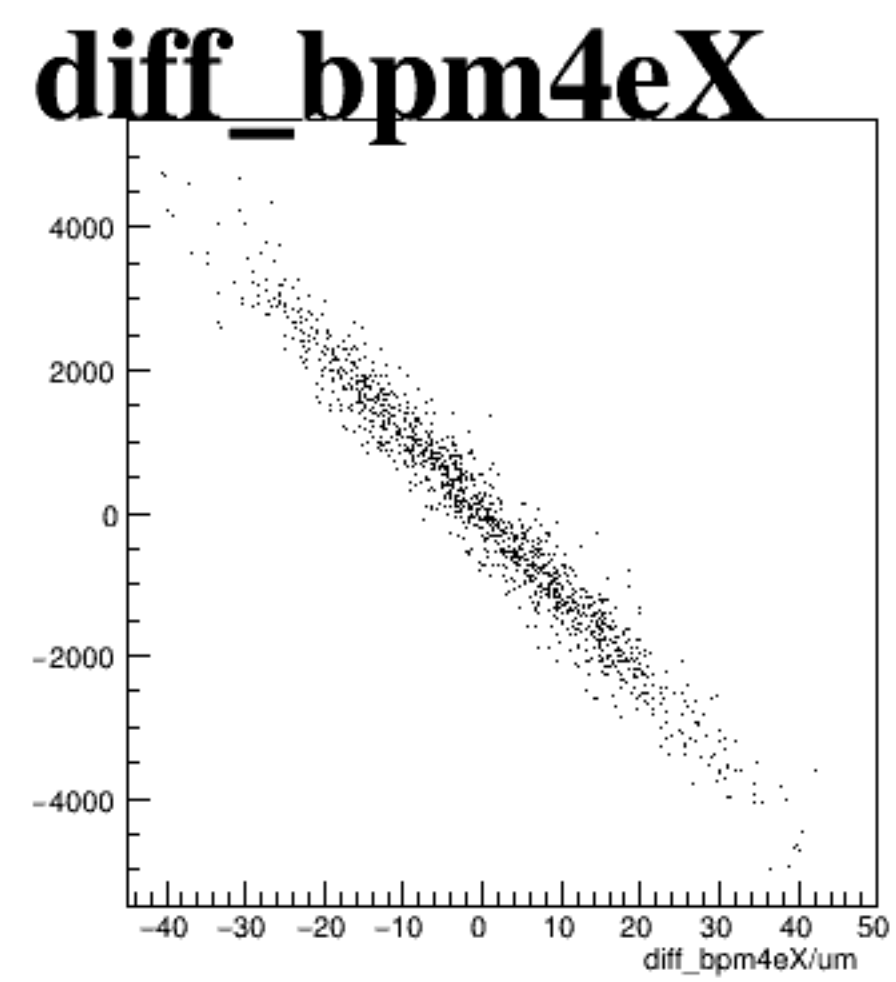
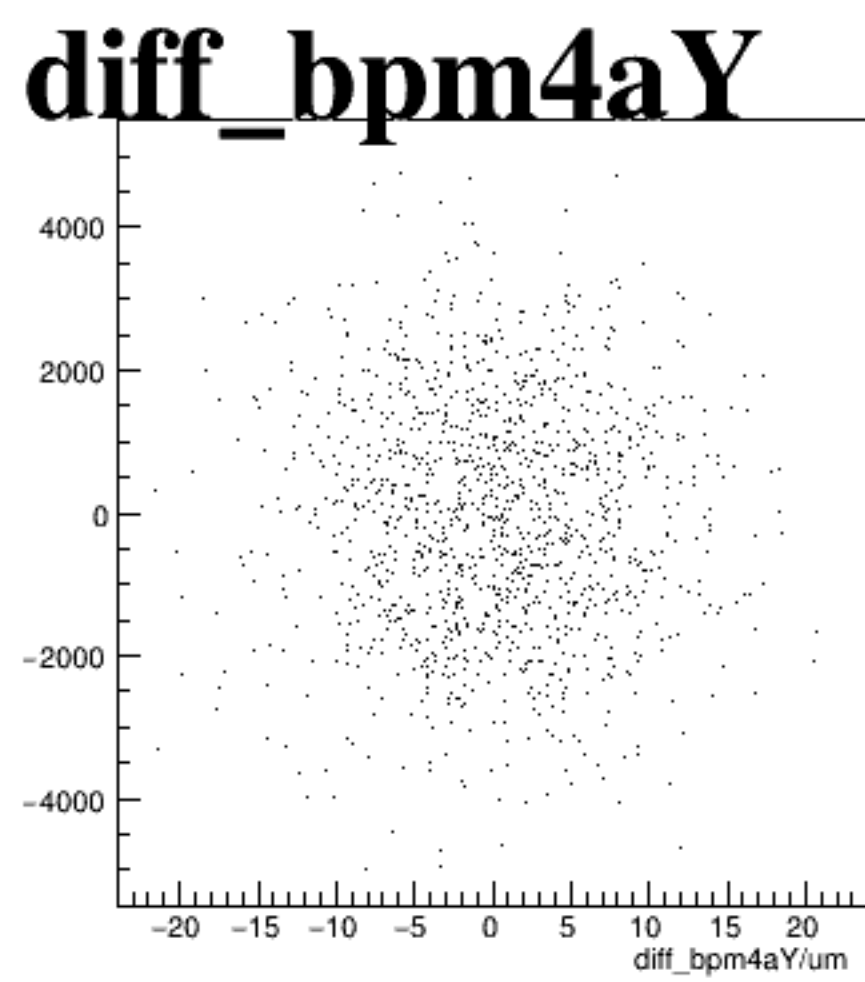
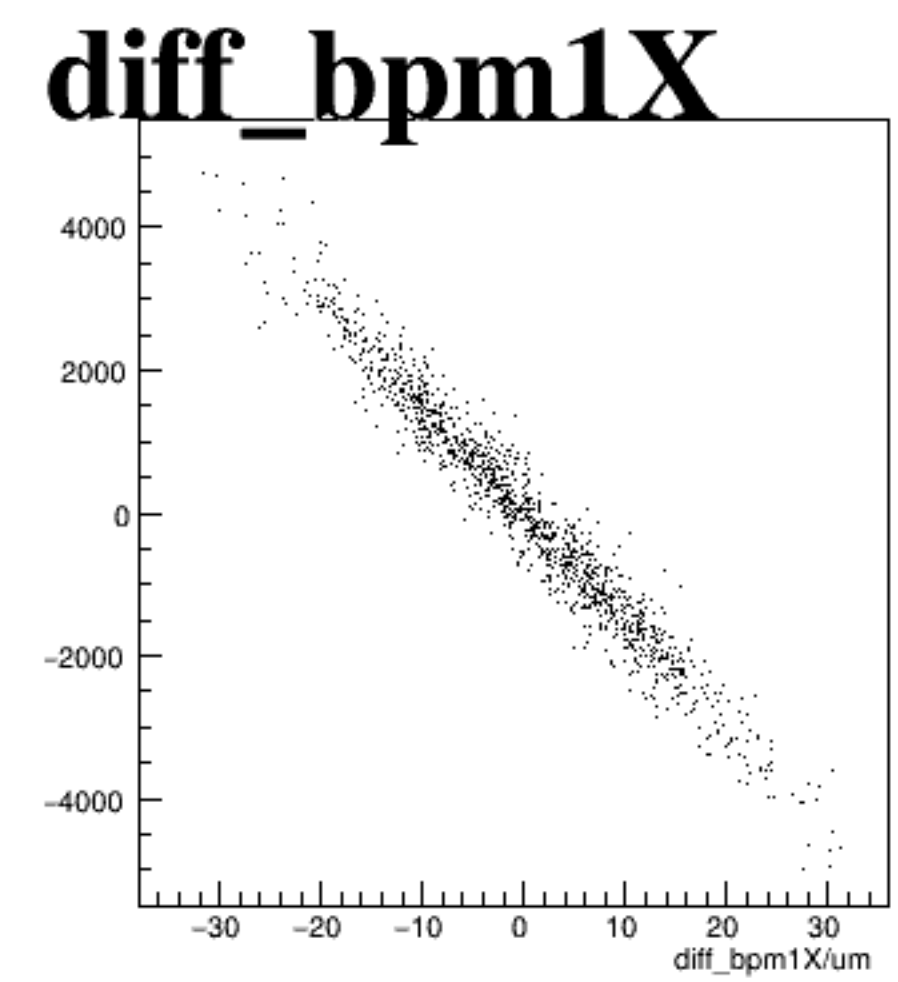
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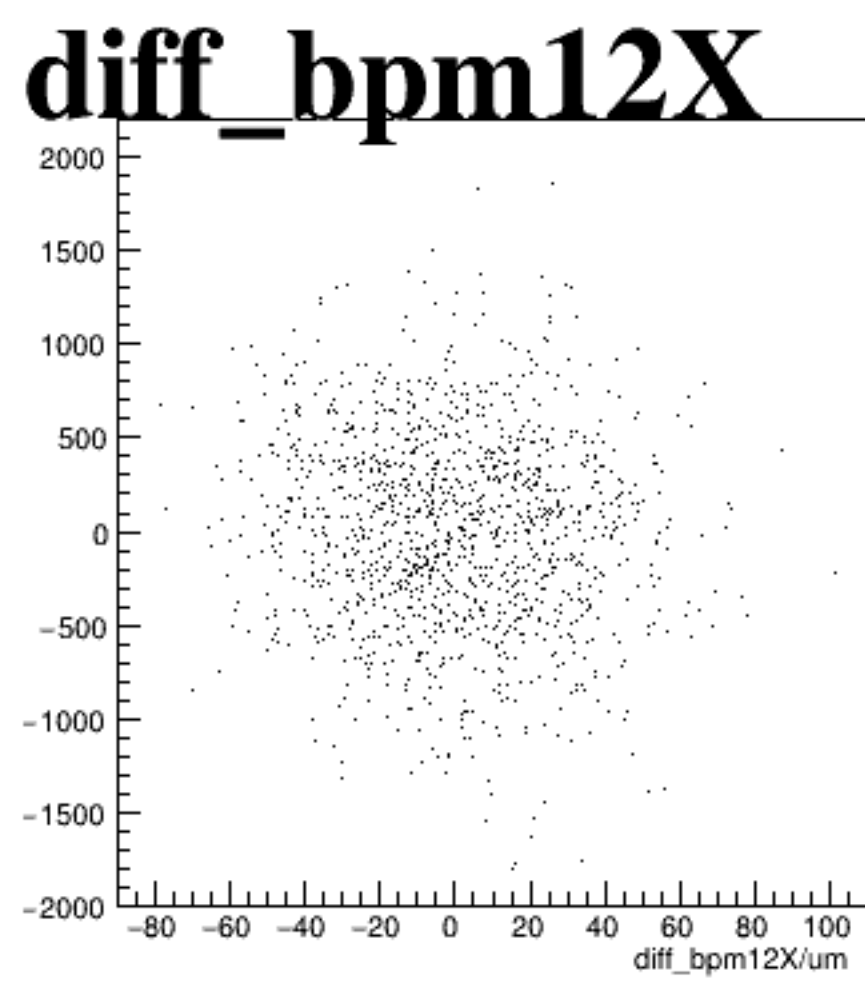
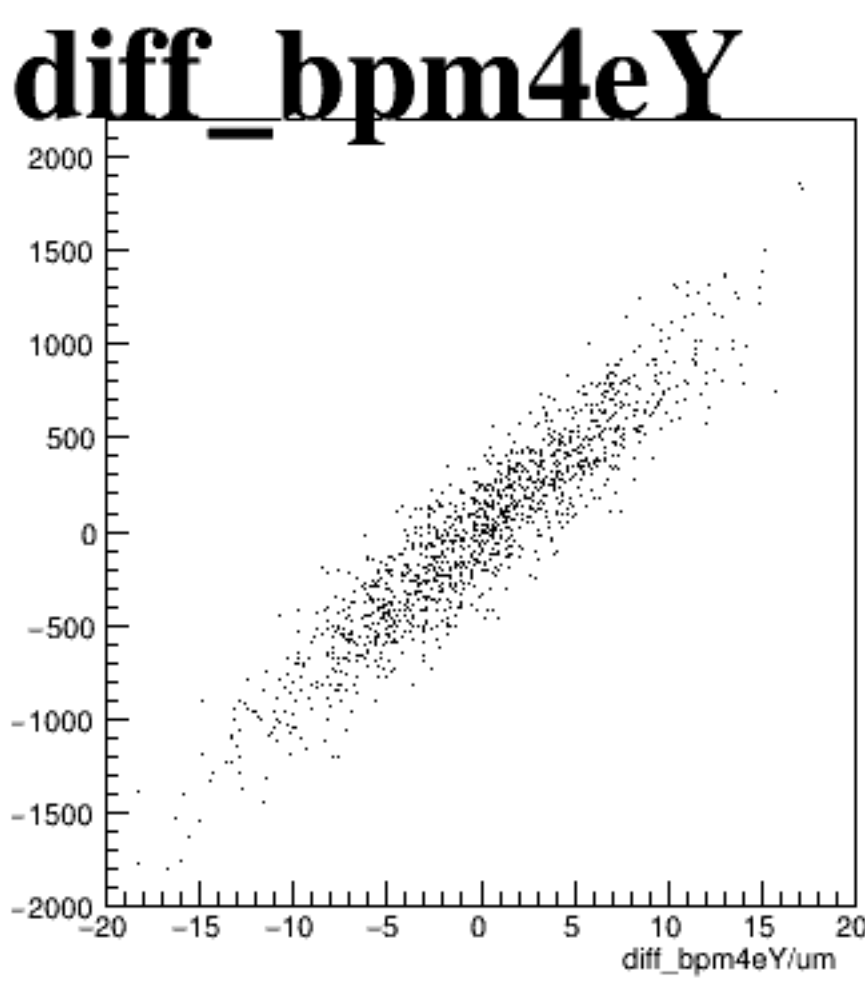
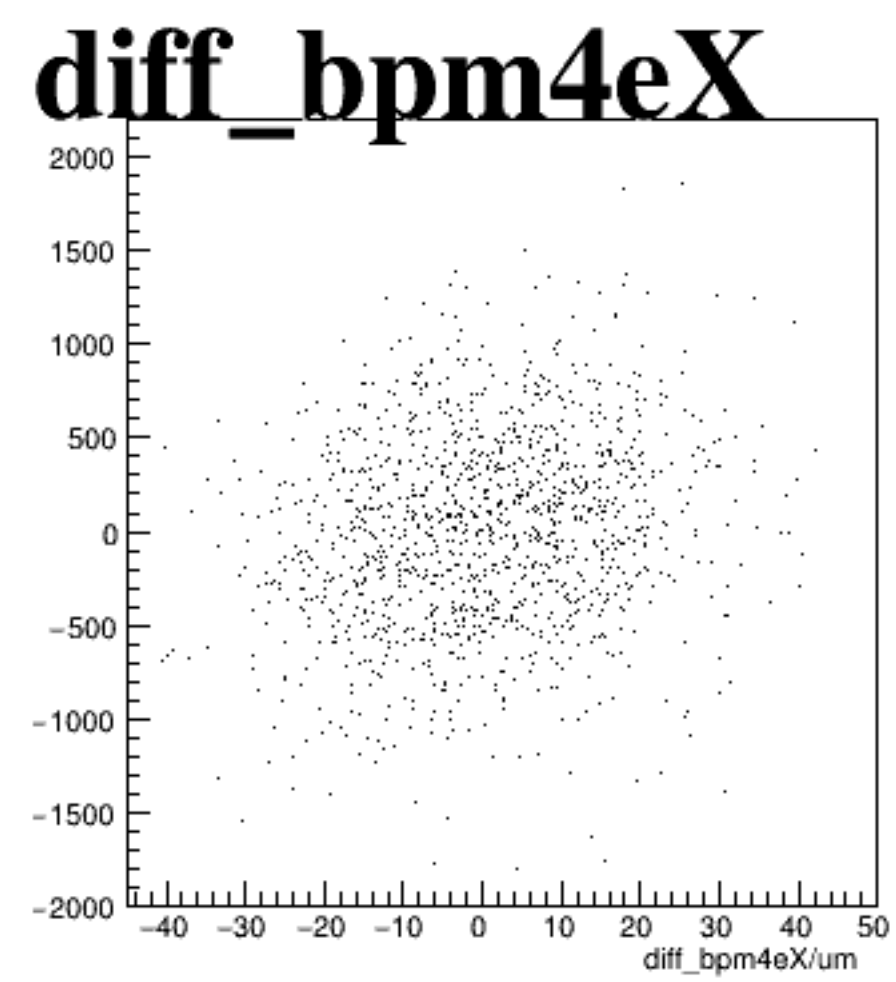
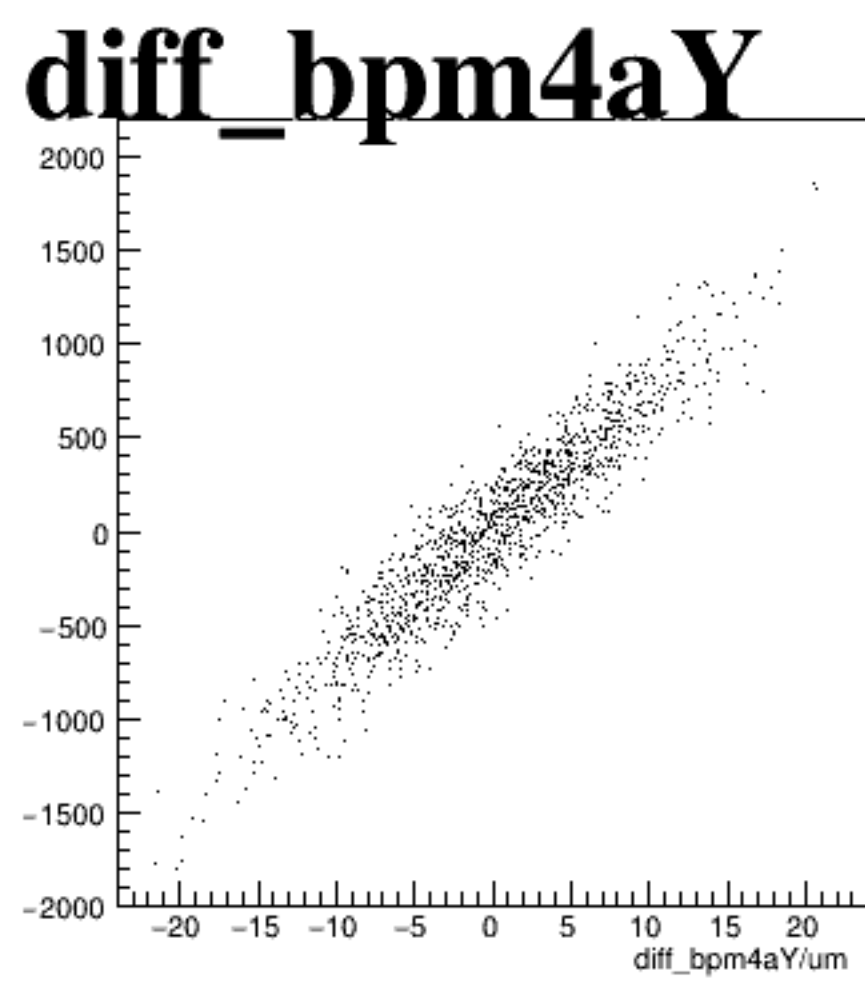
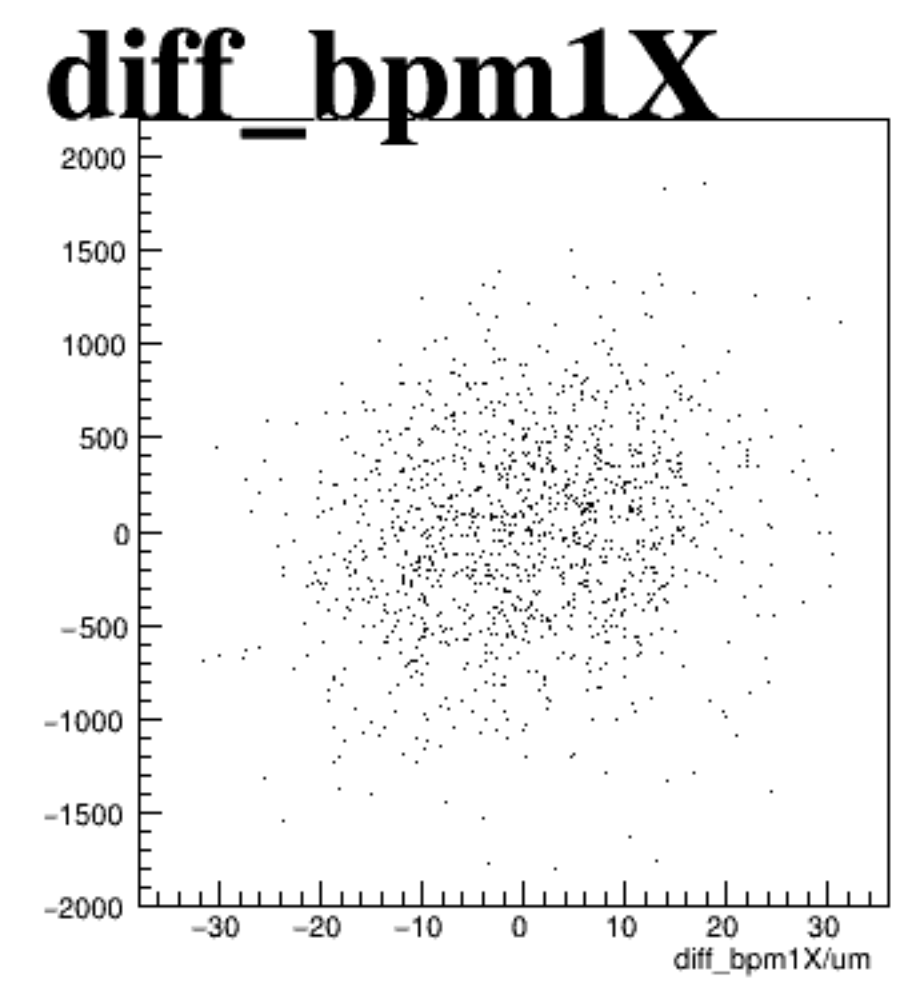
asym_sam1



asym_sam3



asym_sam5



asym_sam7

