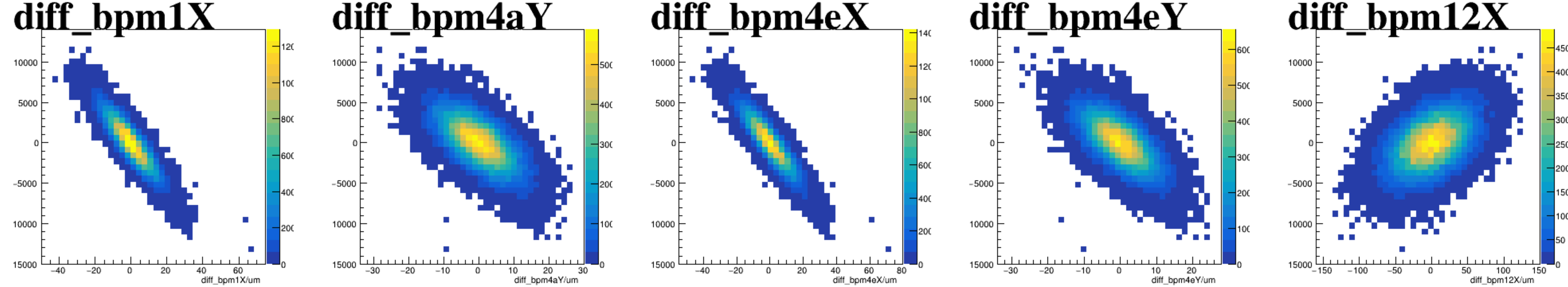
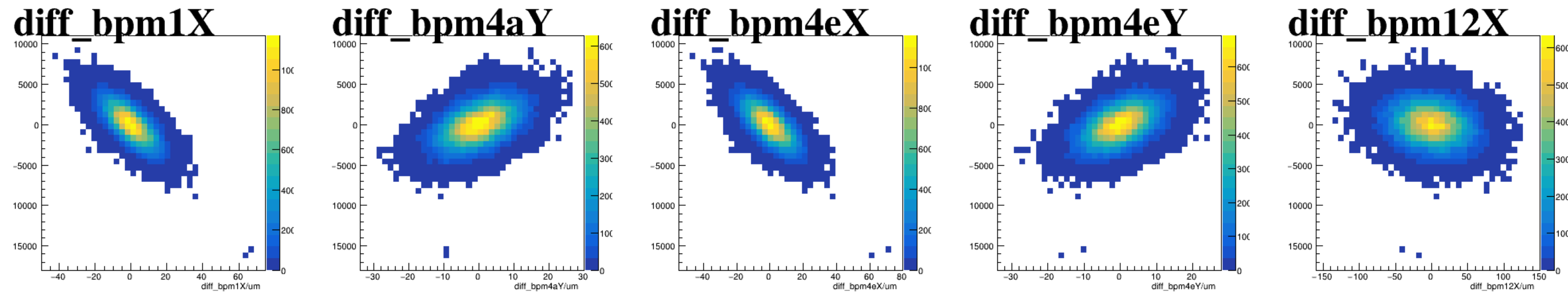


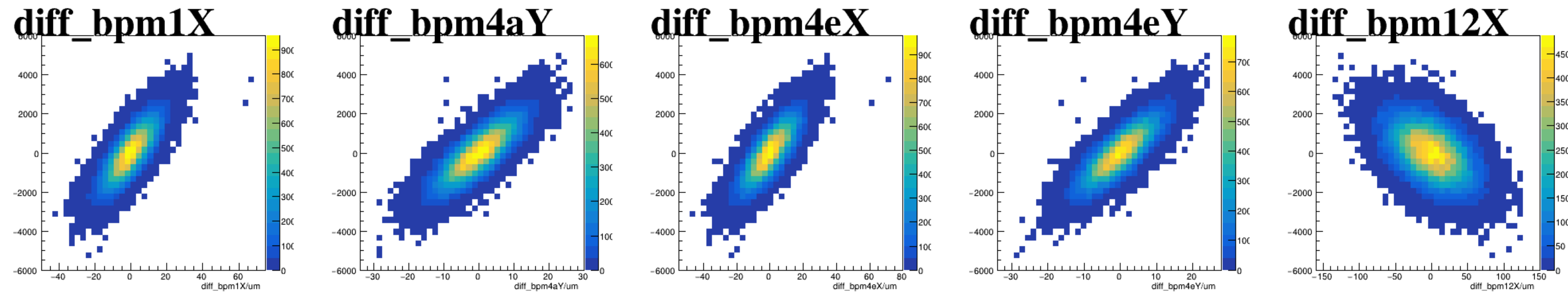
asym_sam2



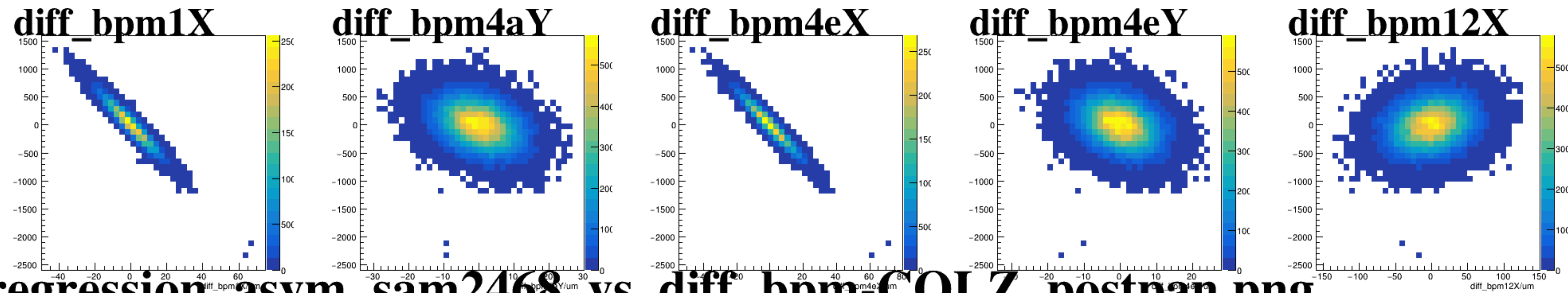
asym_sam4



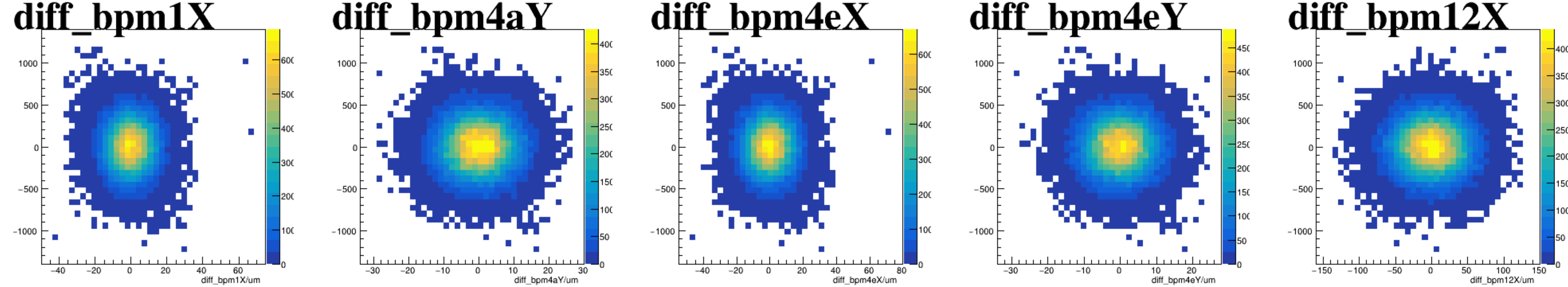
asym_sam6



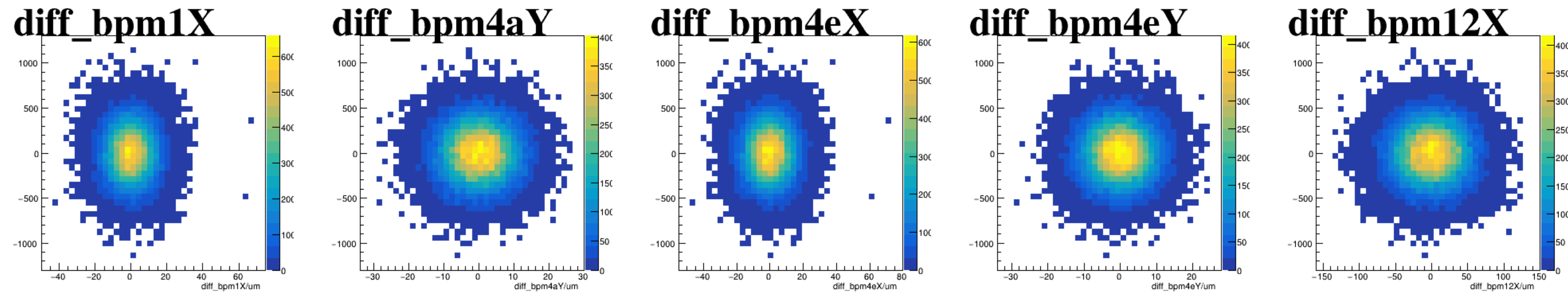
asym_sam8



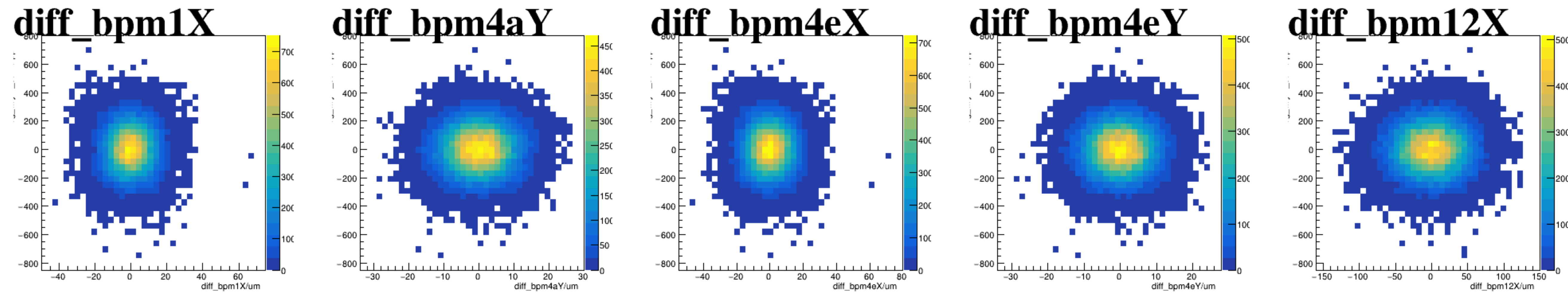
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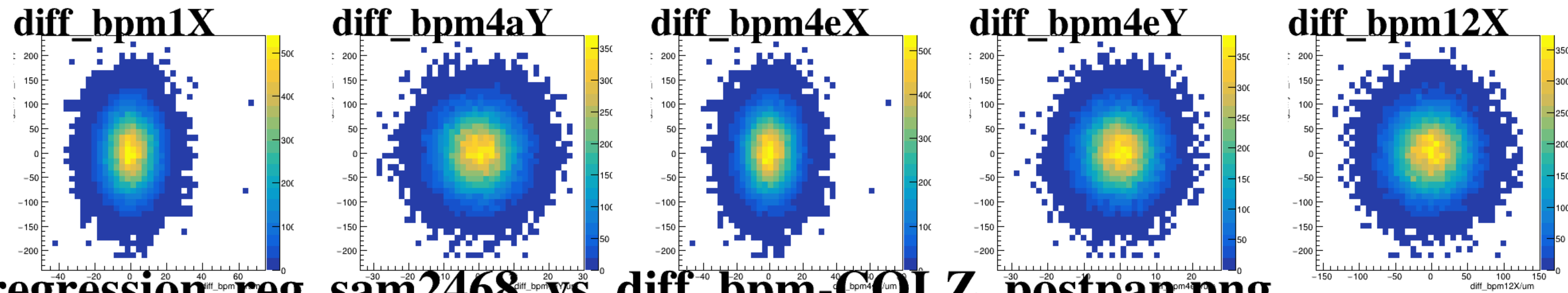
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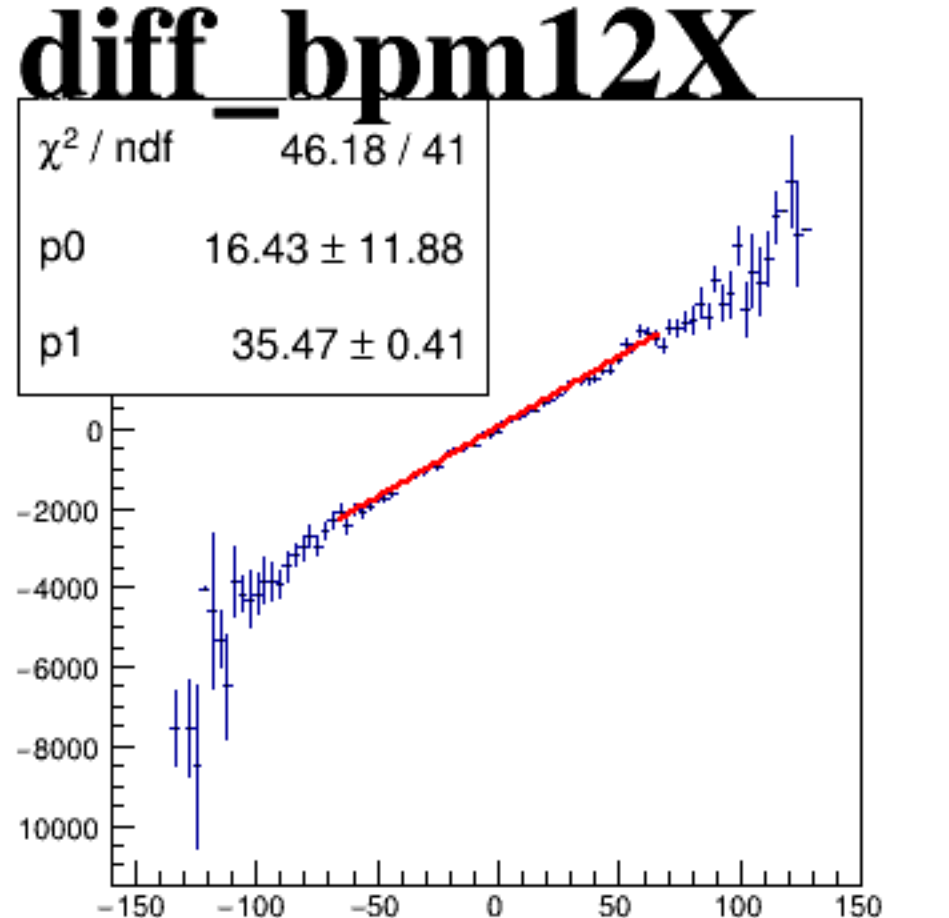
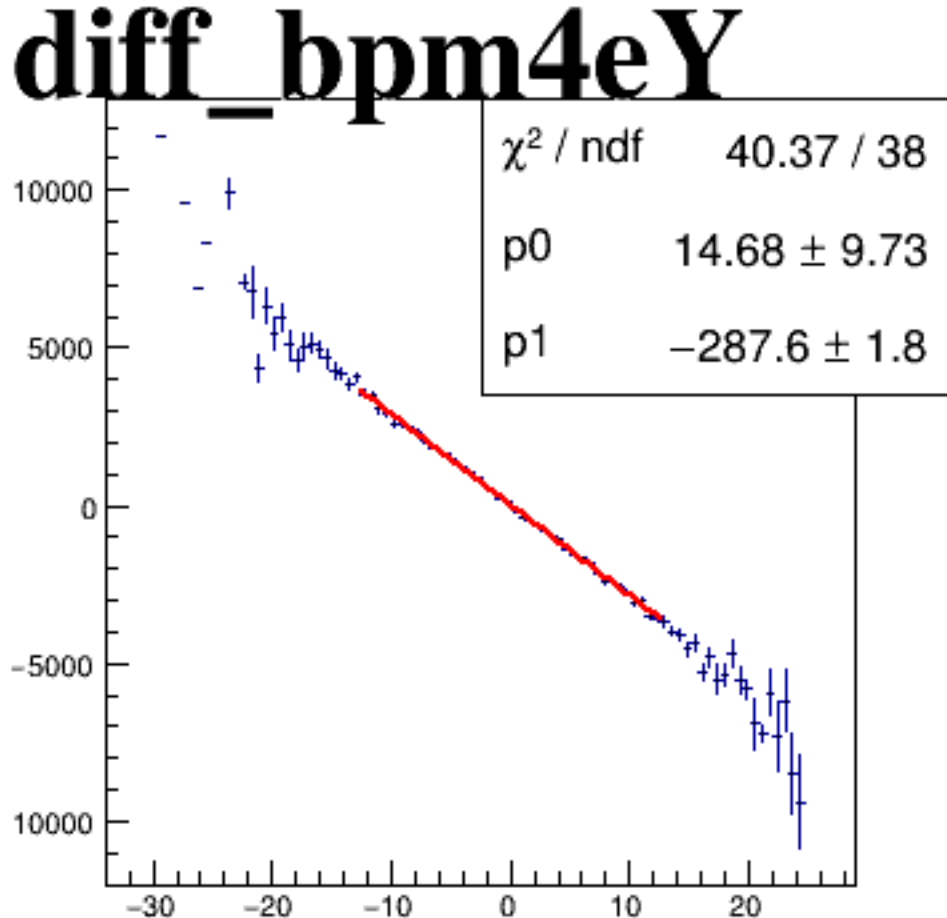
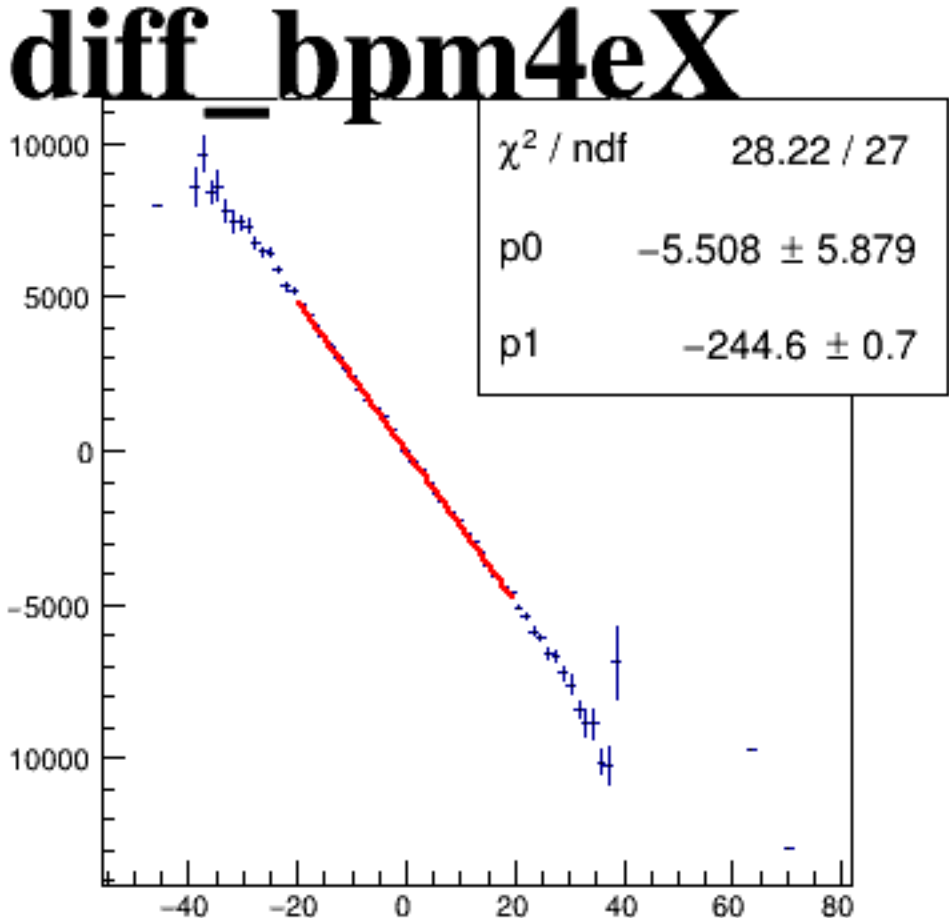
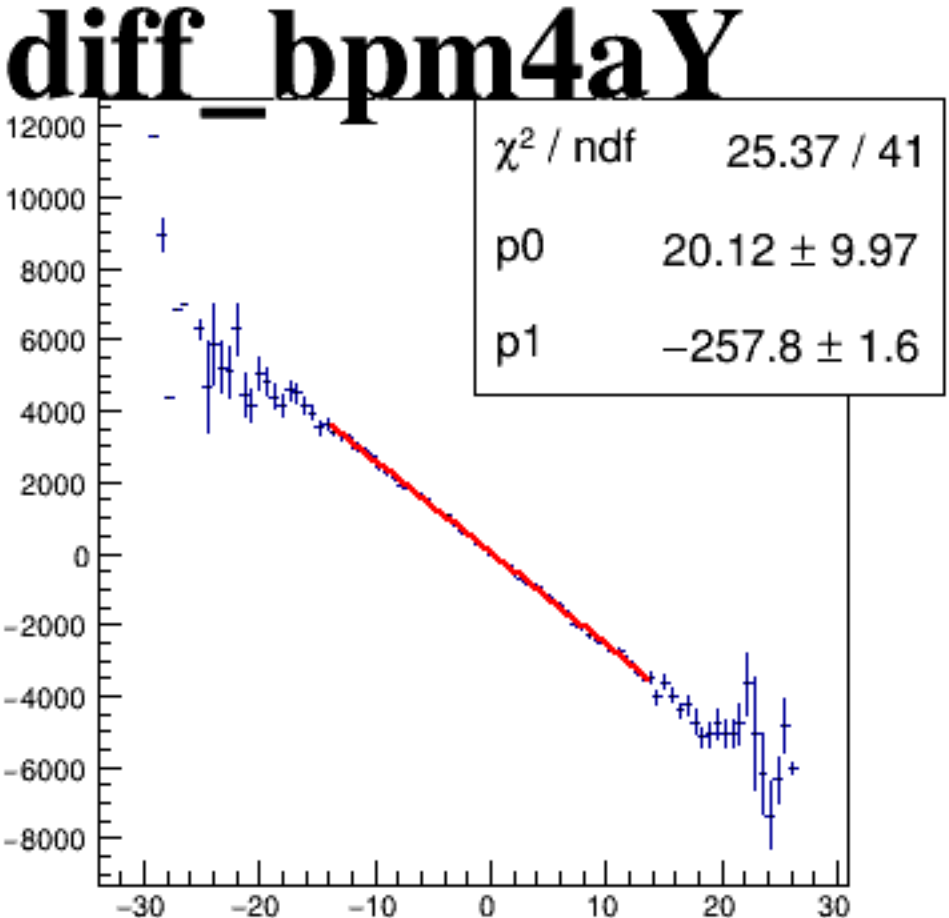
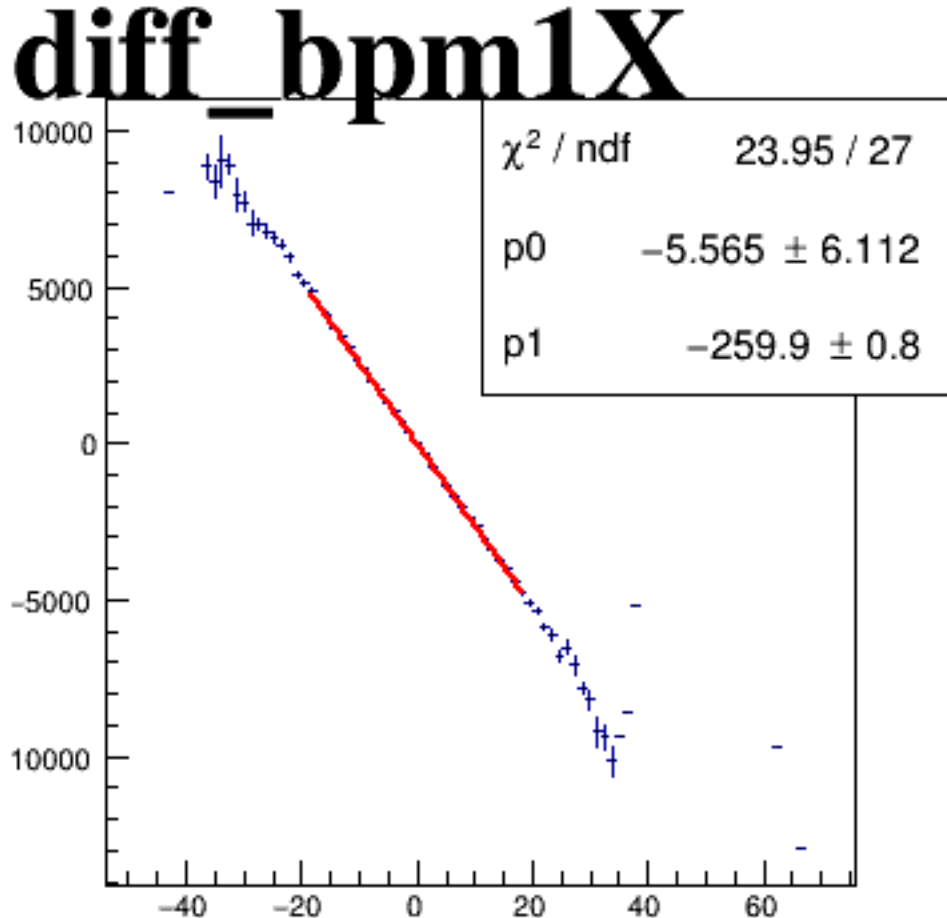
reg_asym_sam6



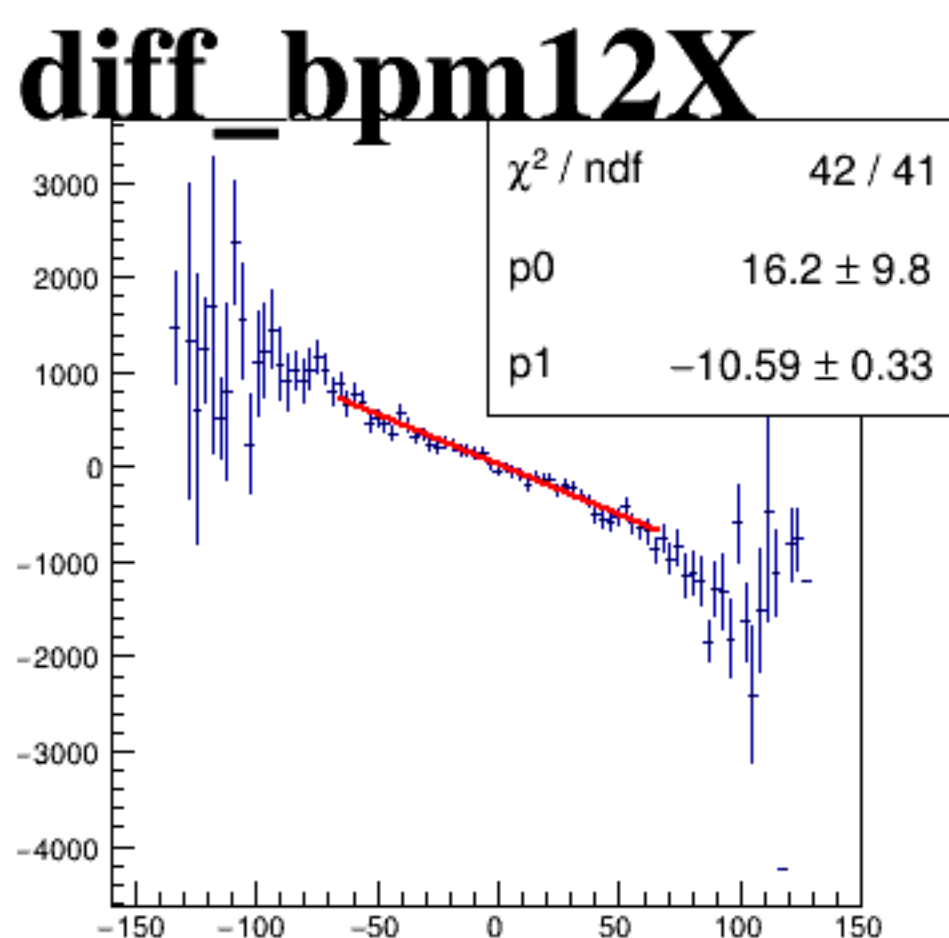
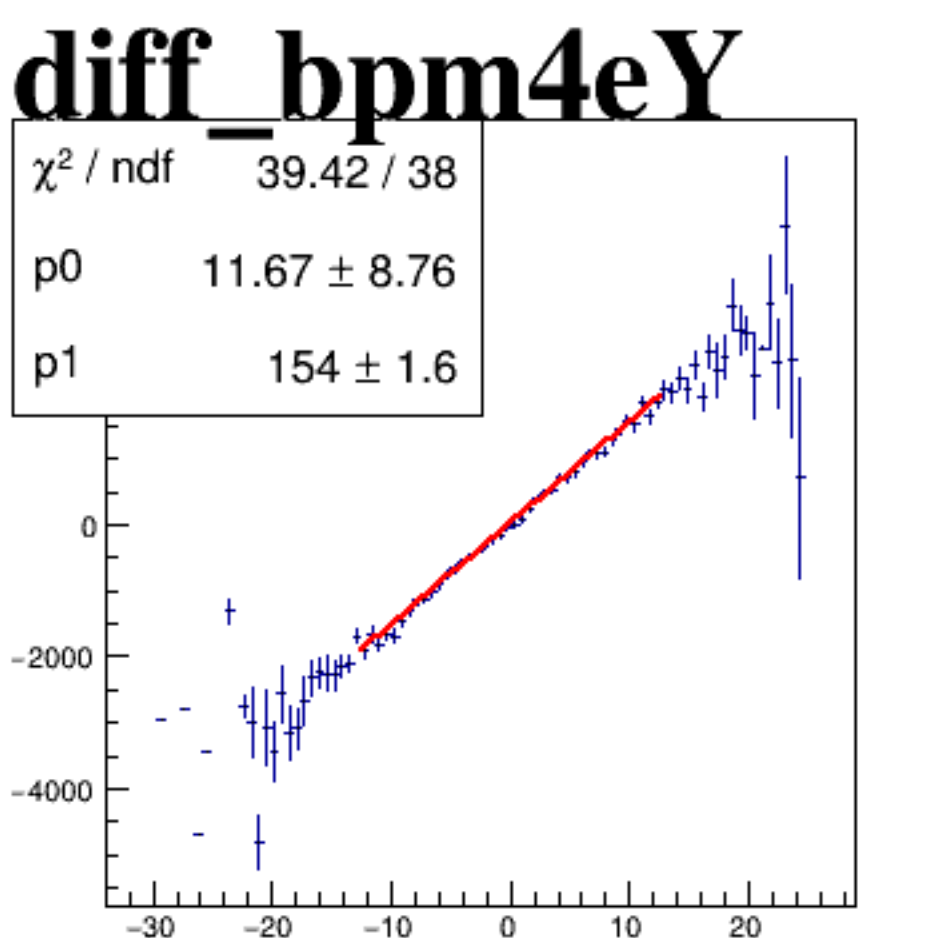
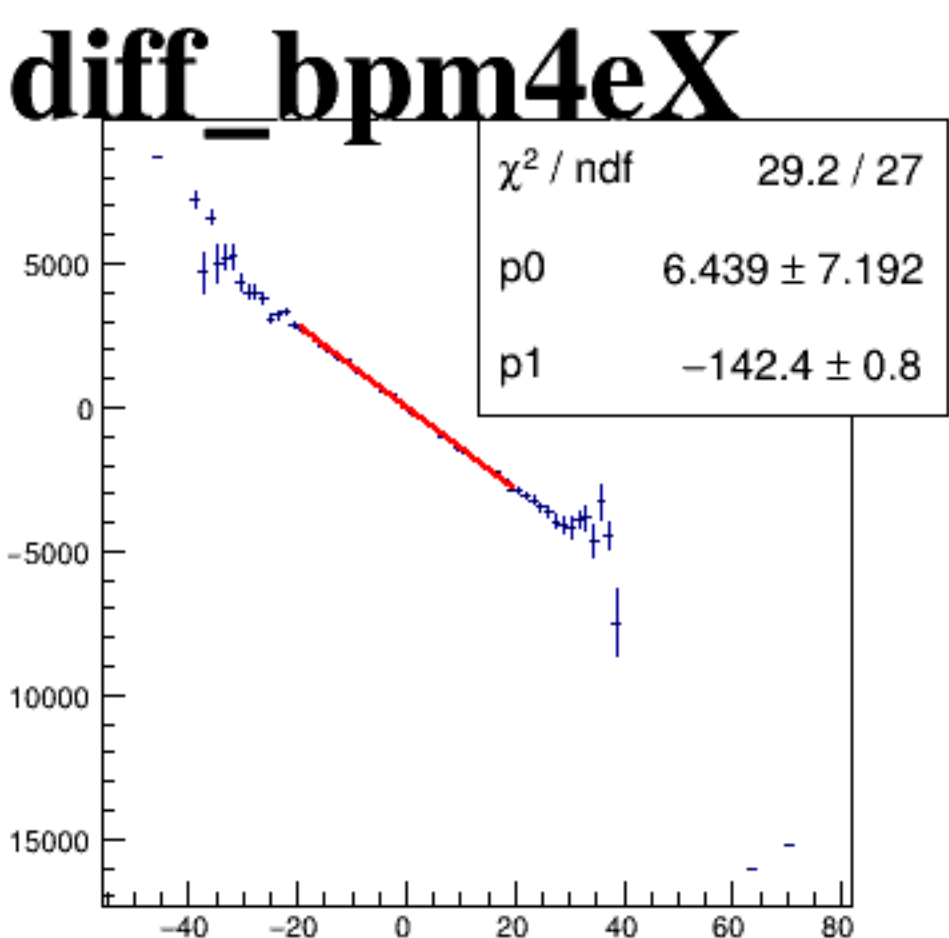
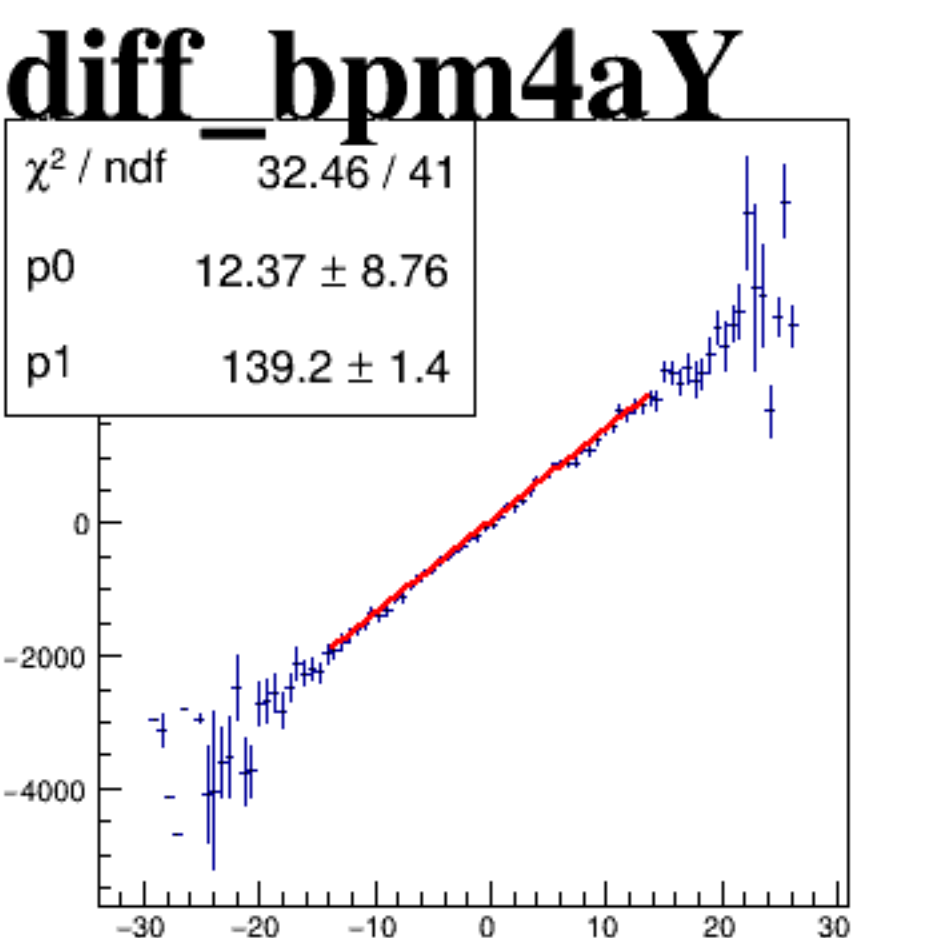
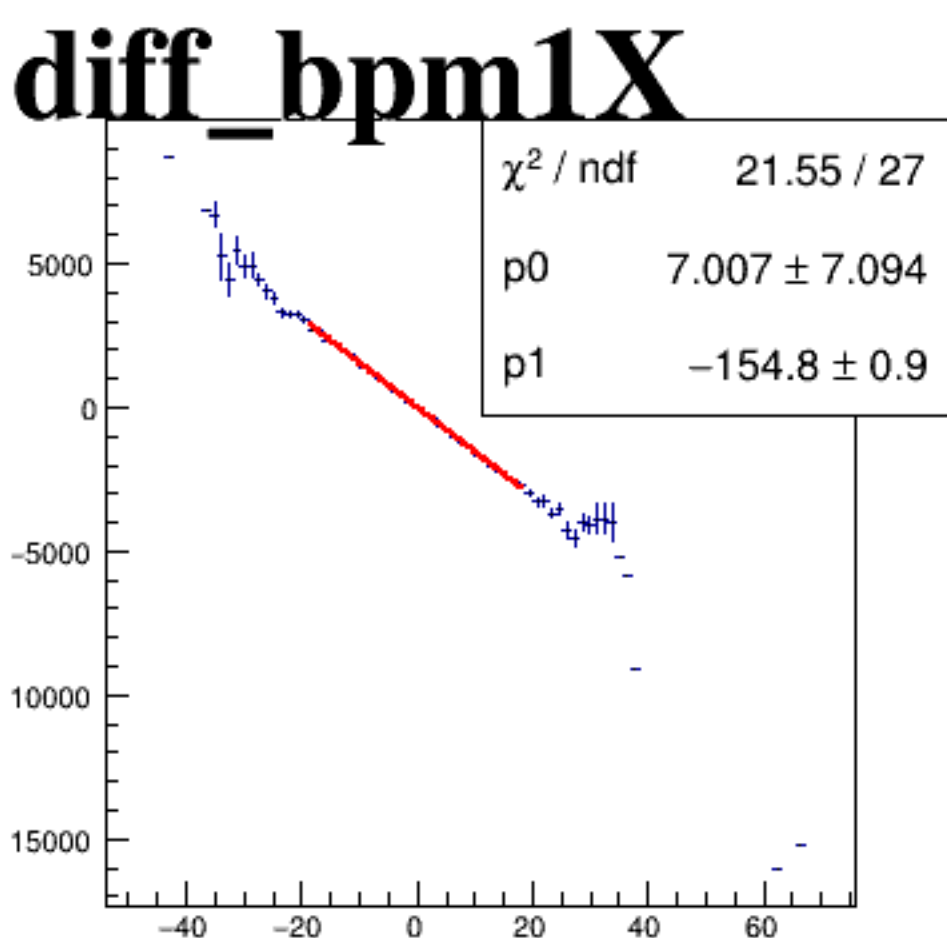
reg_asym_sam8



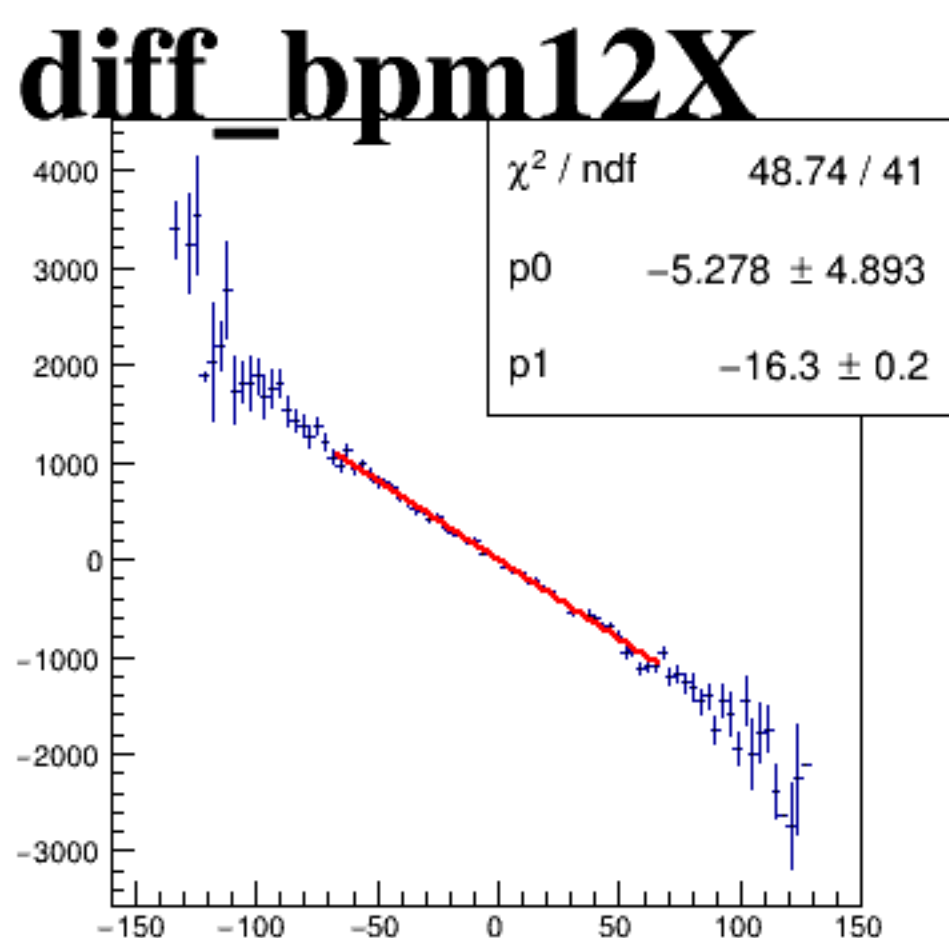
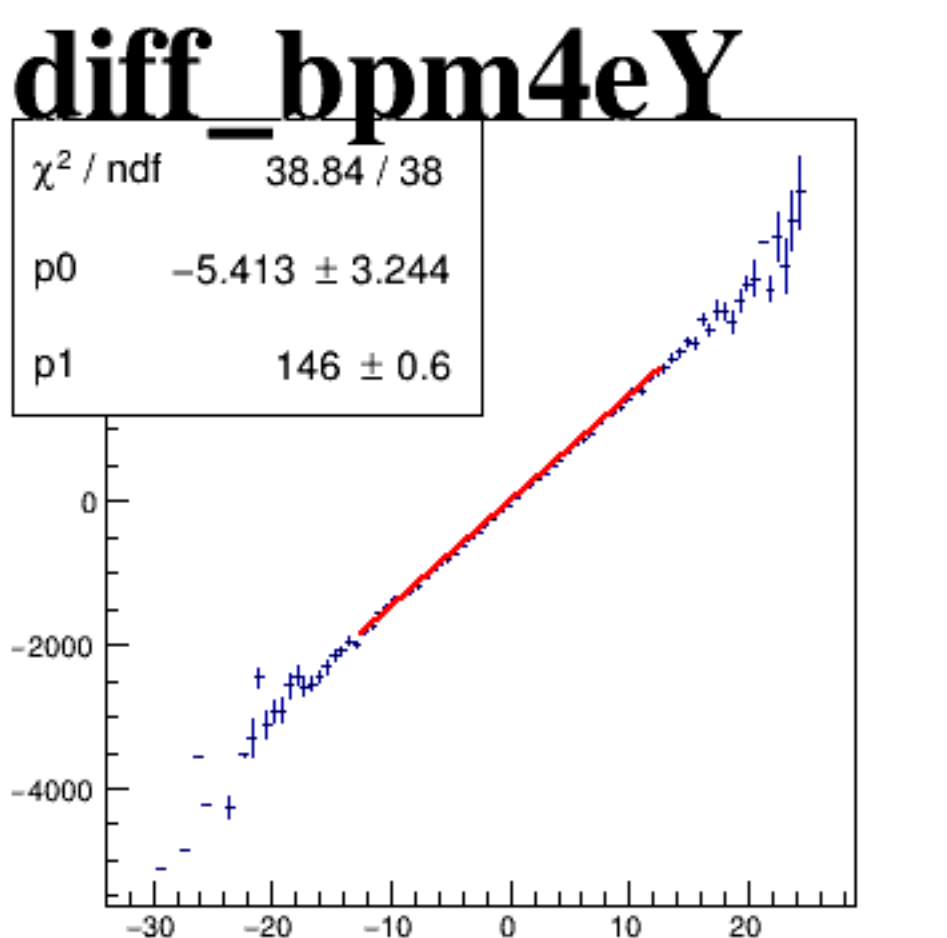
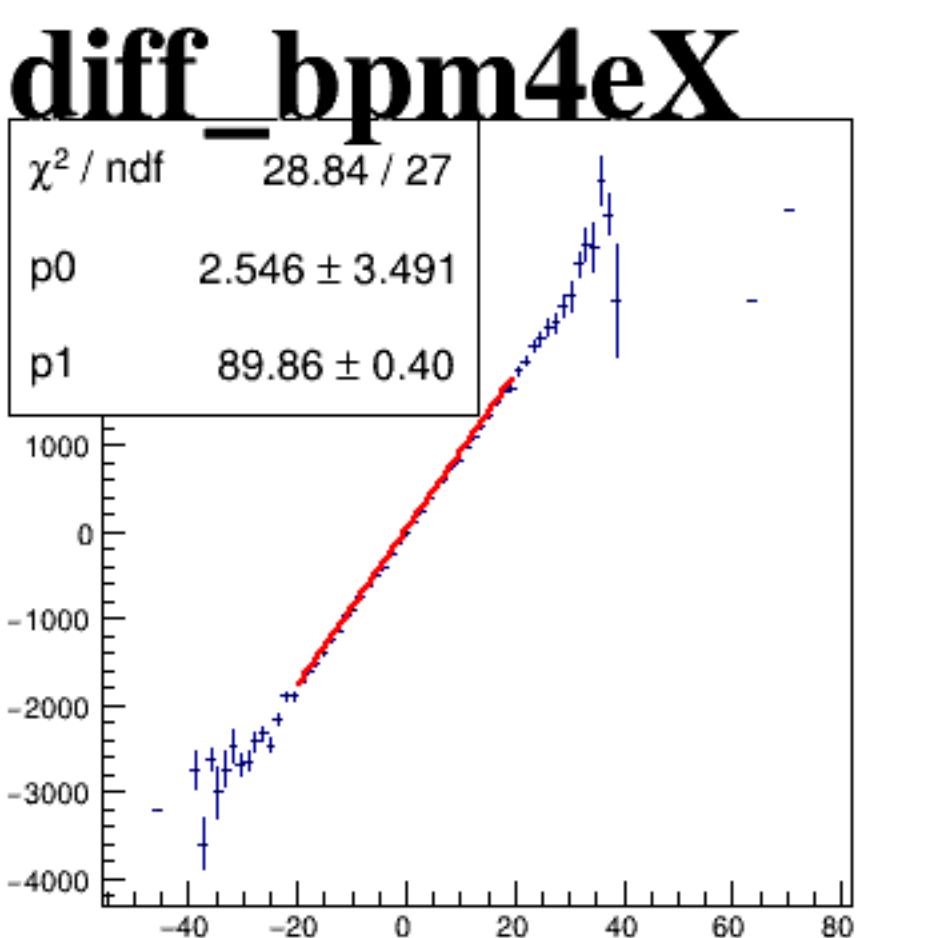
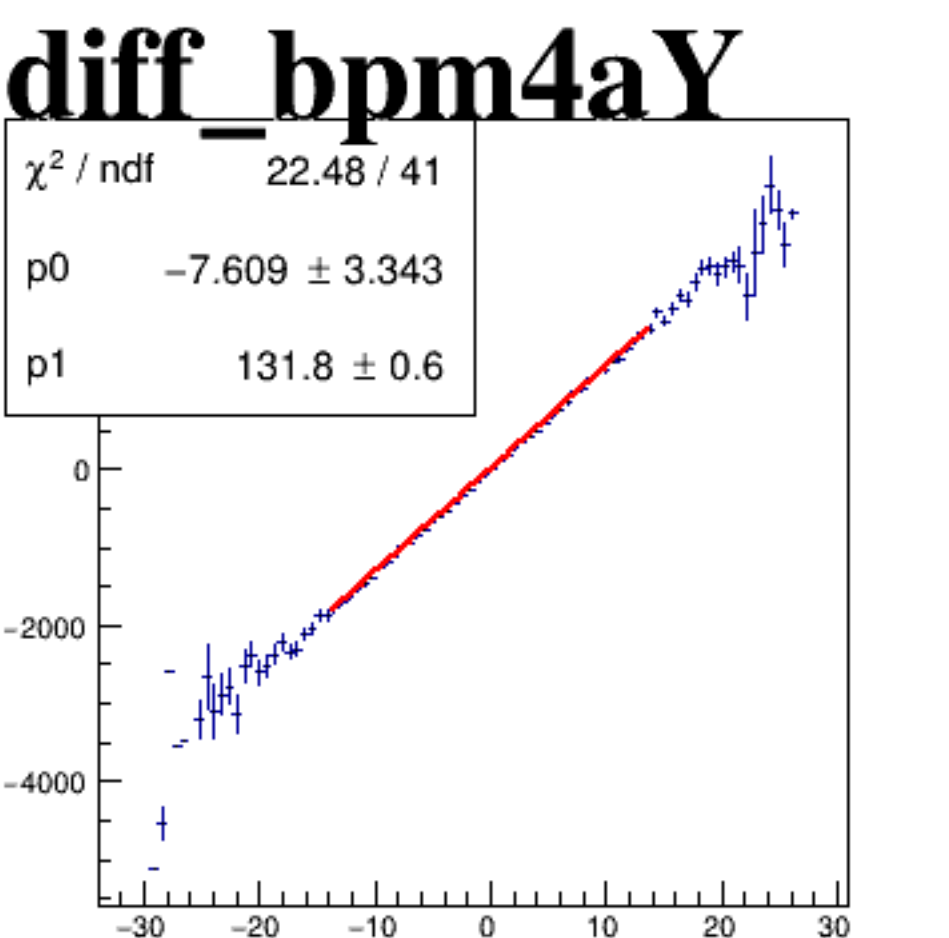
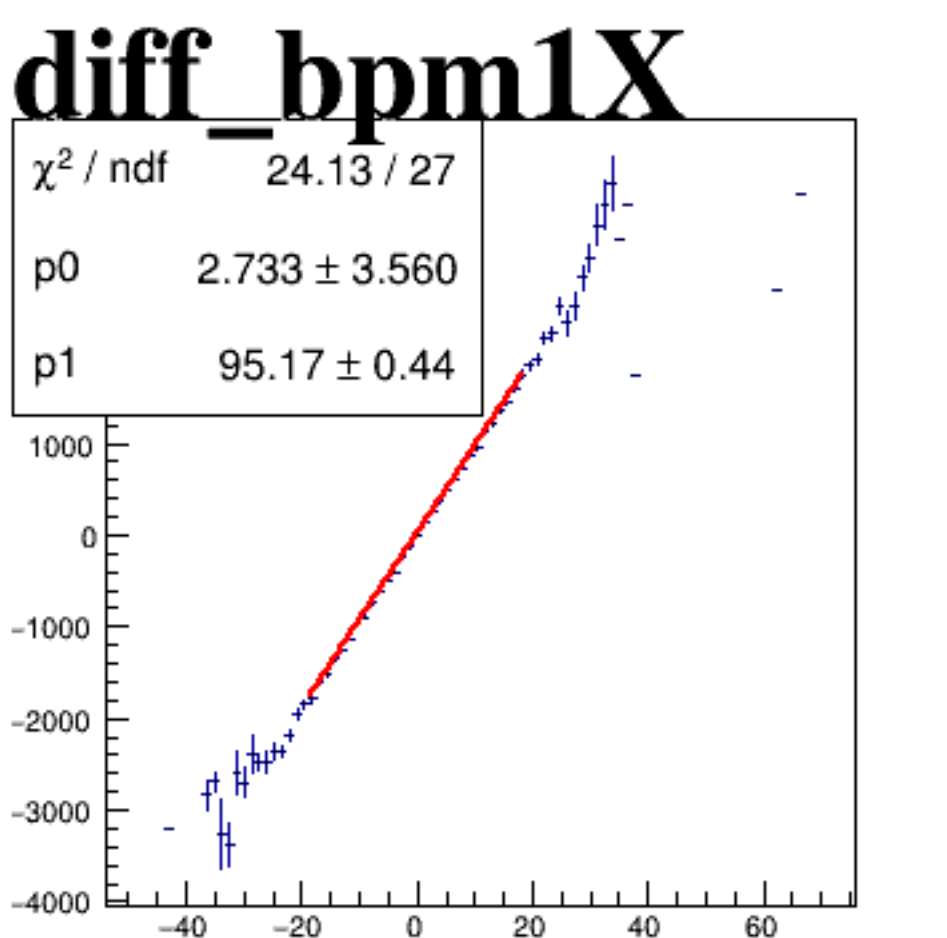
asym_sam2



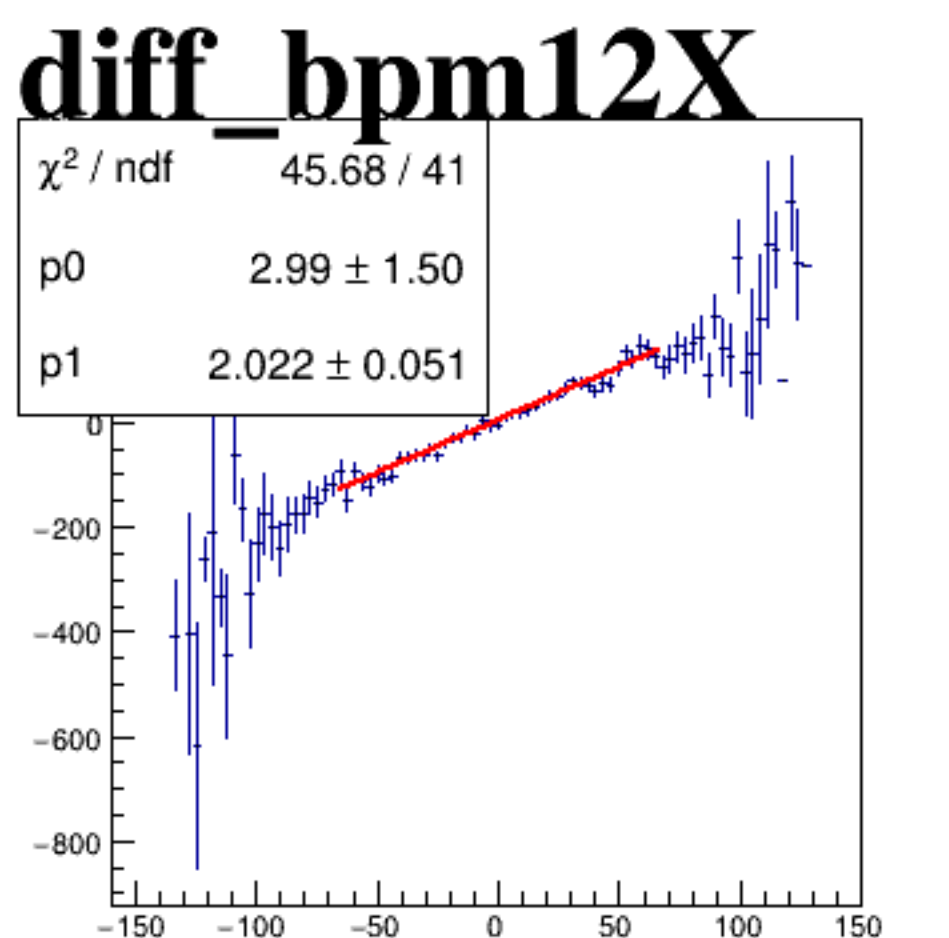
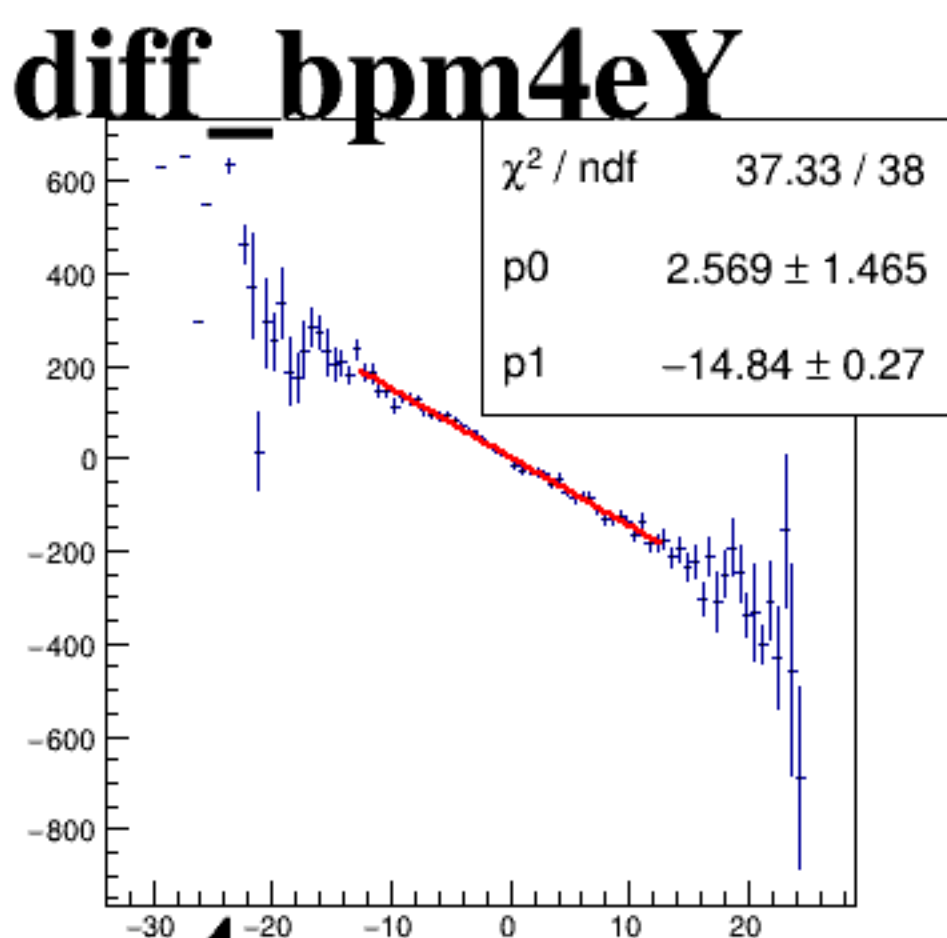
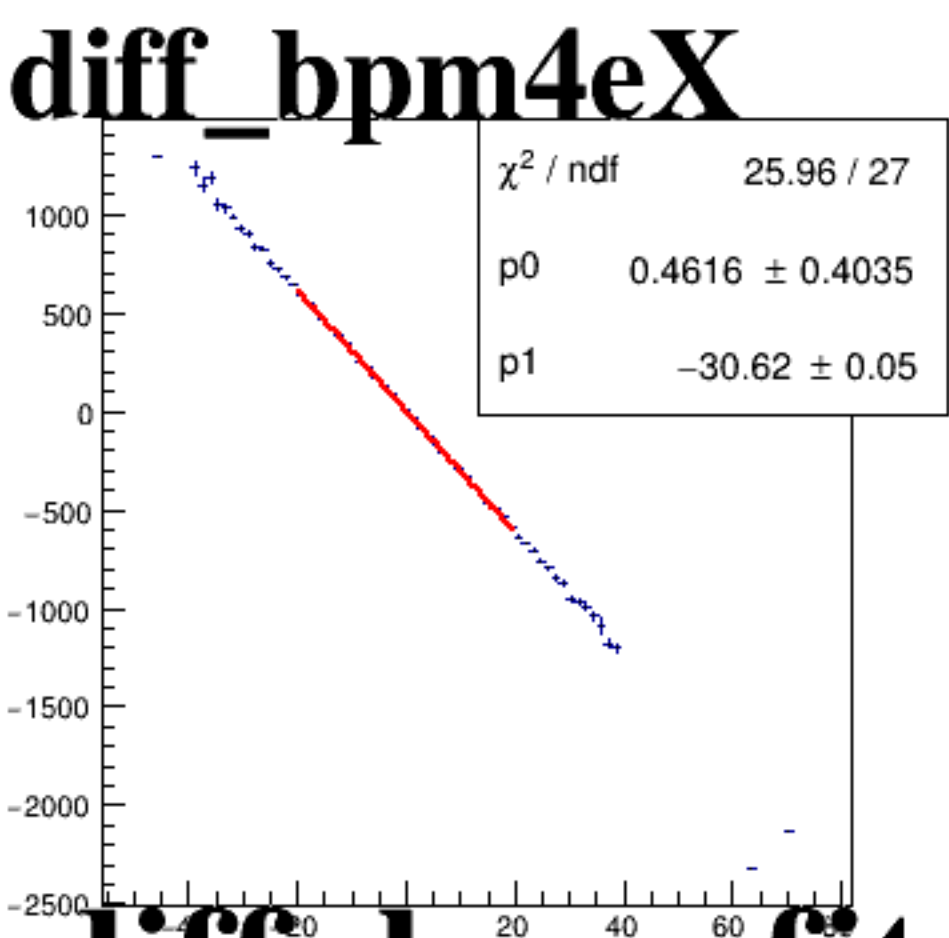
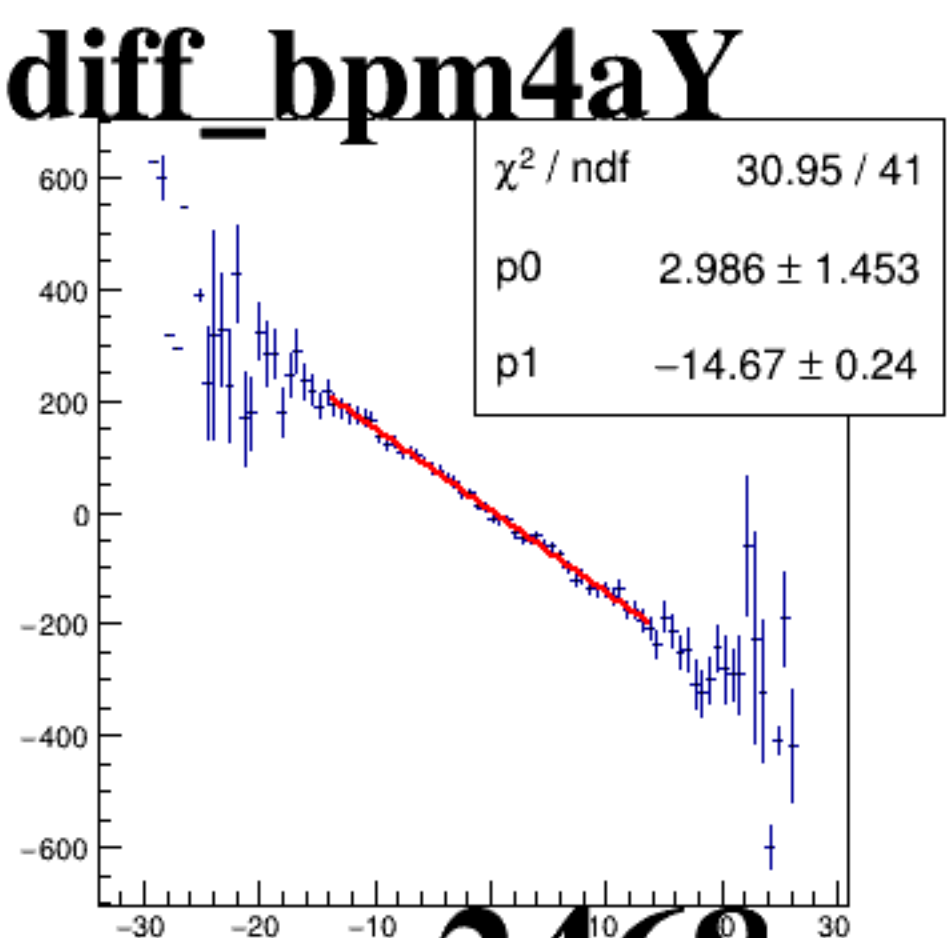
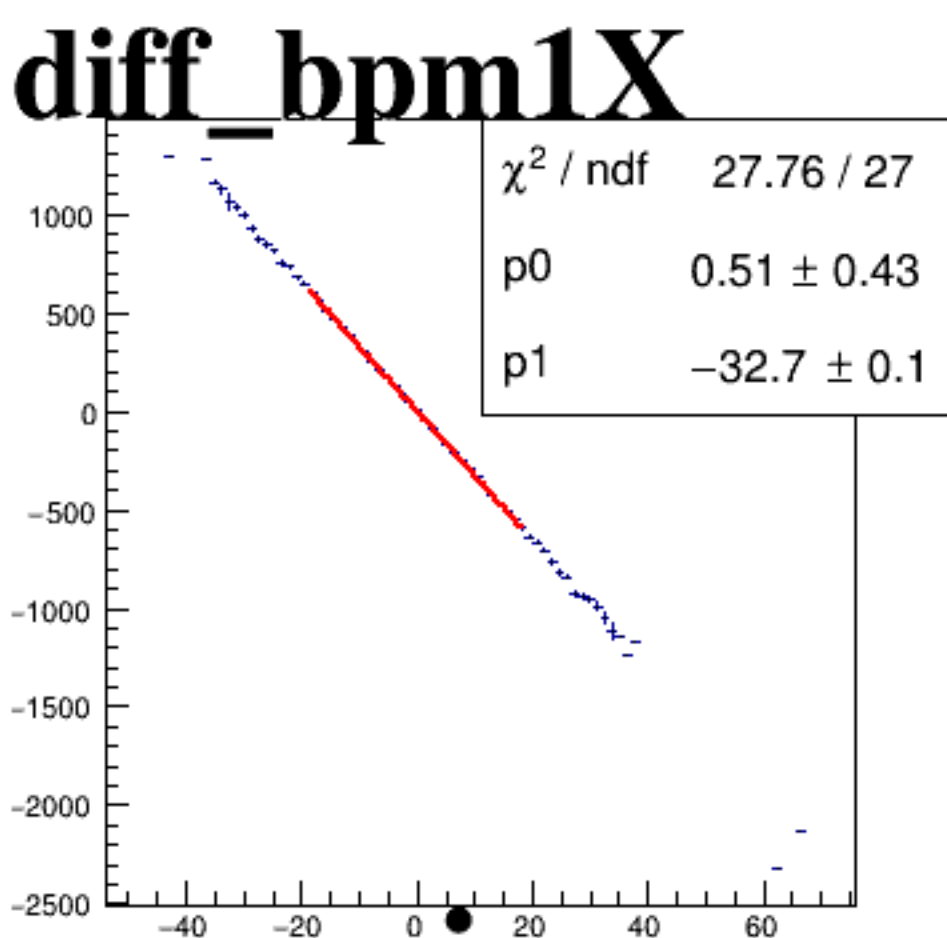
asym_sam4



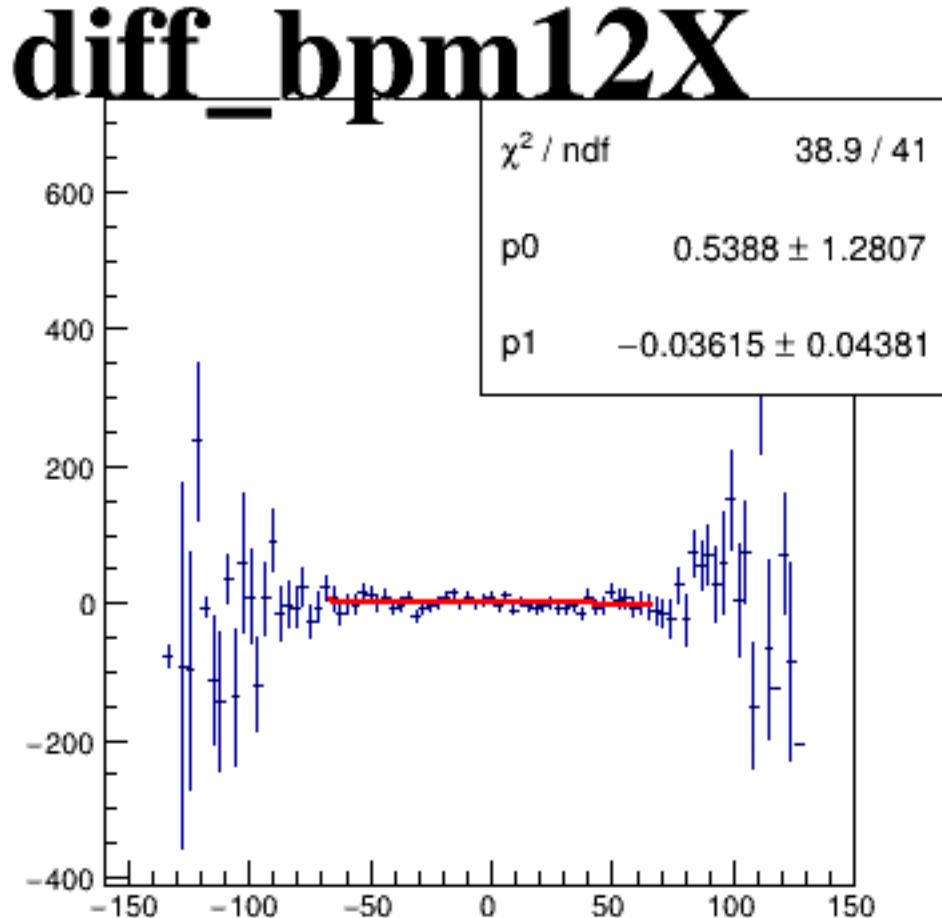
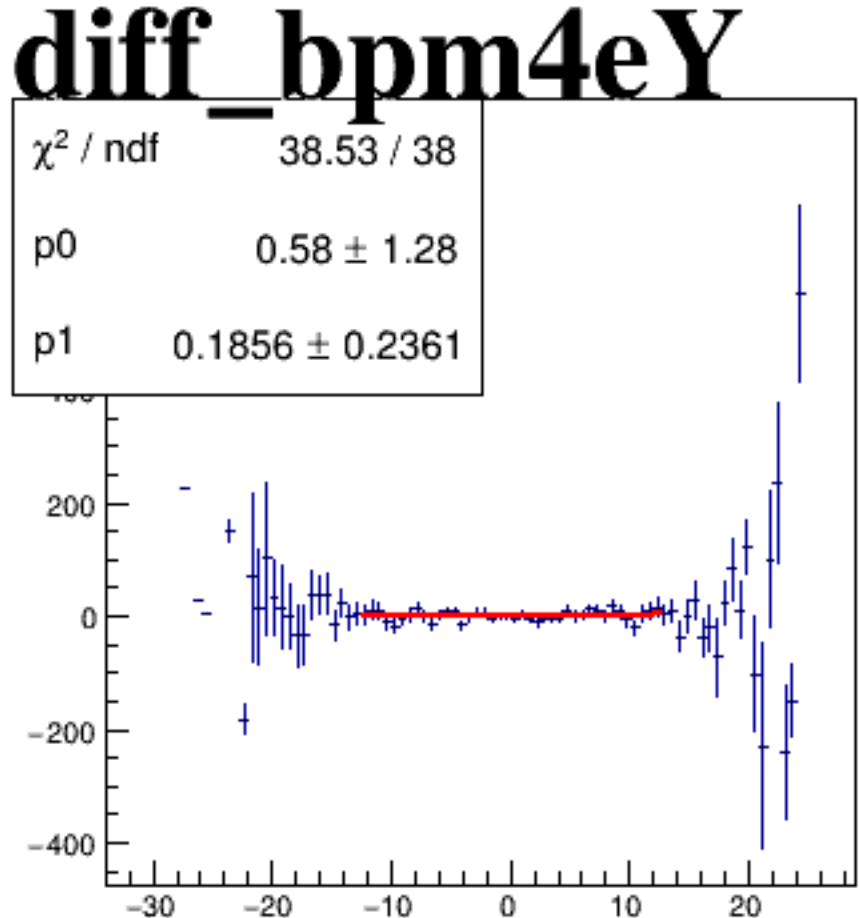
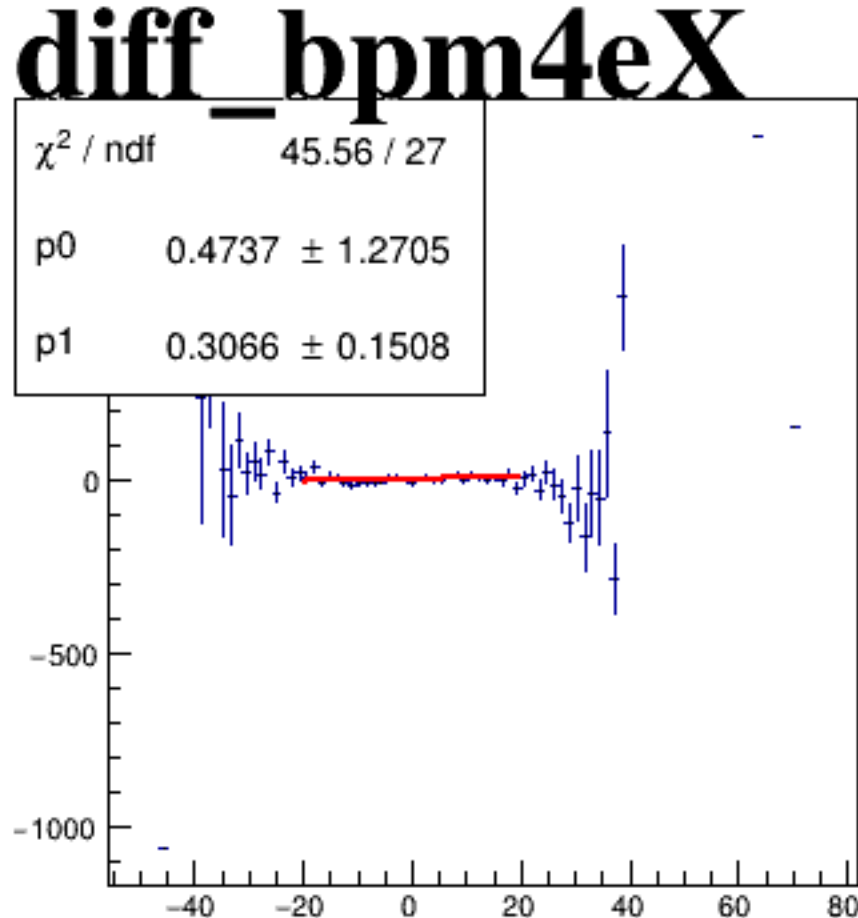
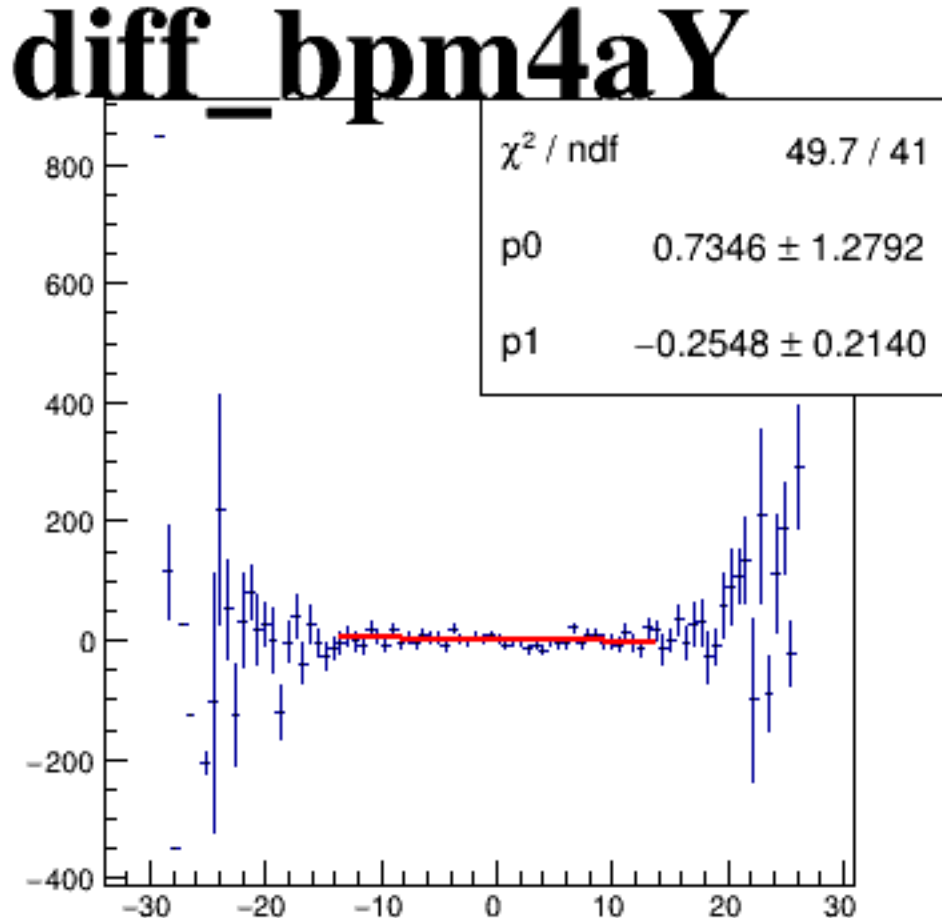
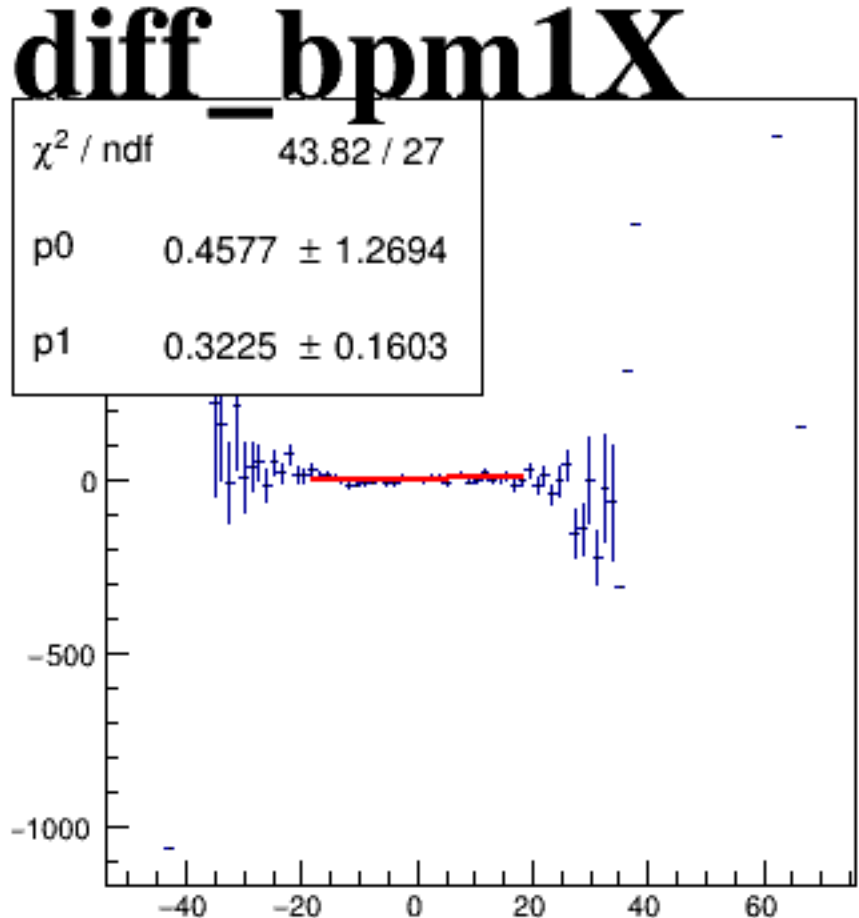
asym_sam6



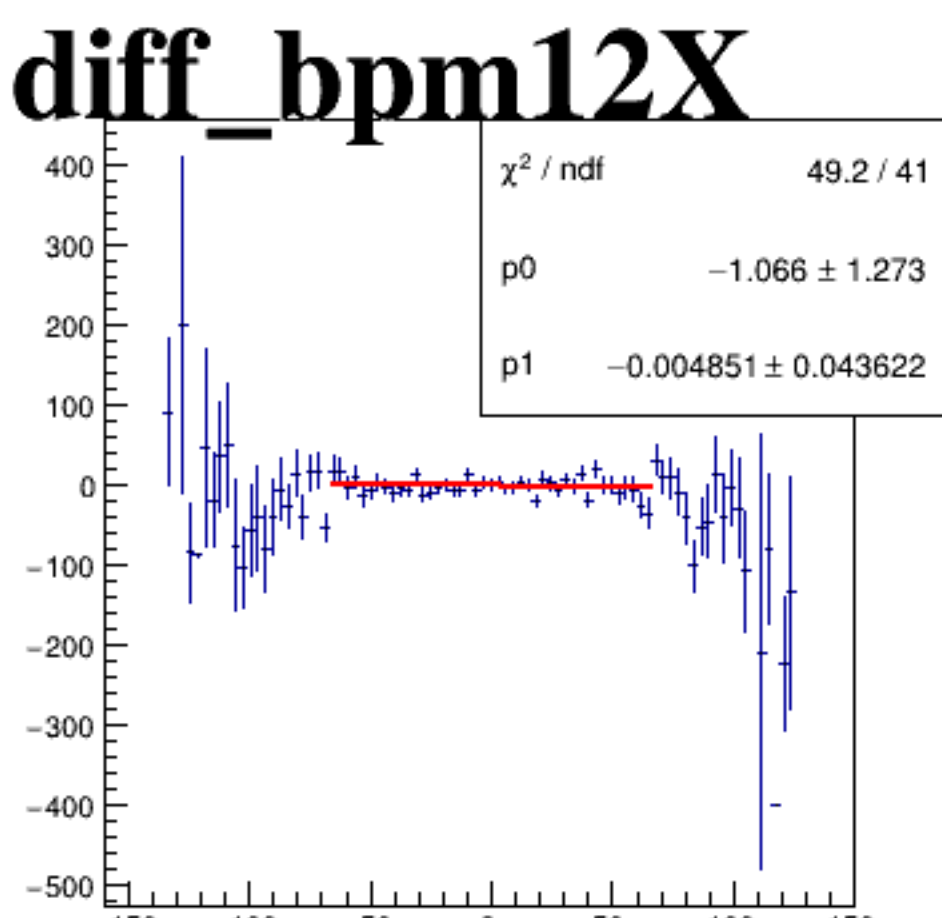
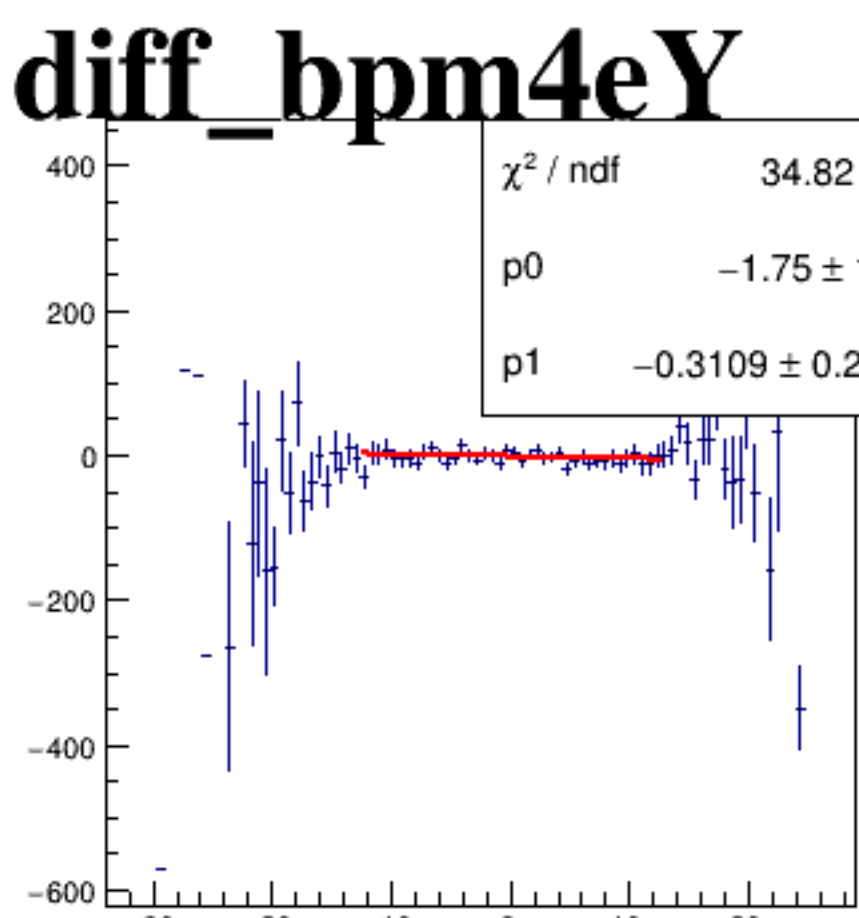
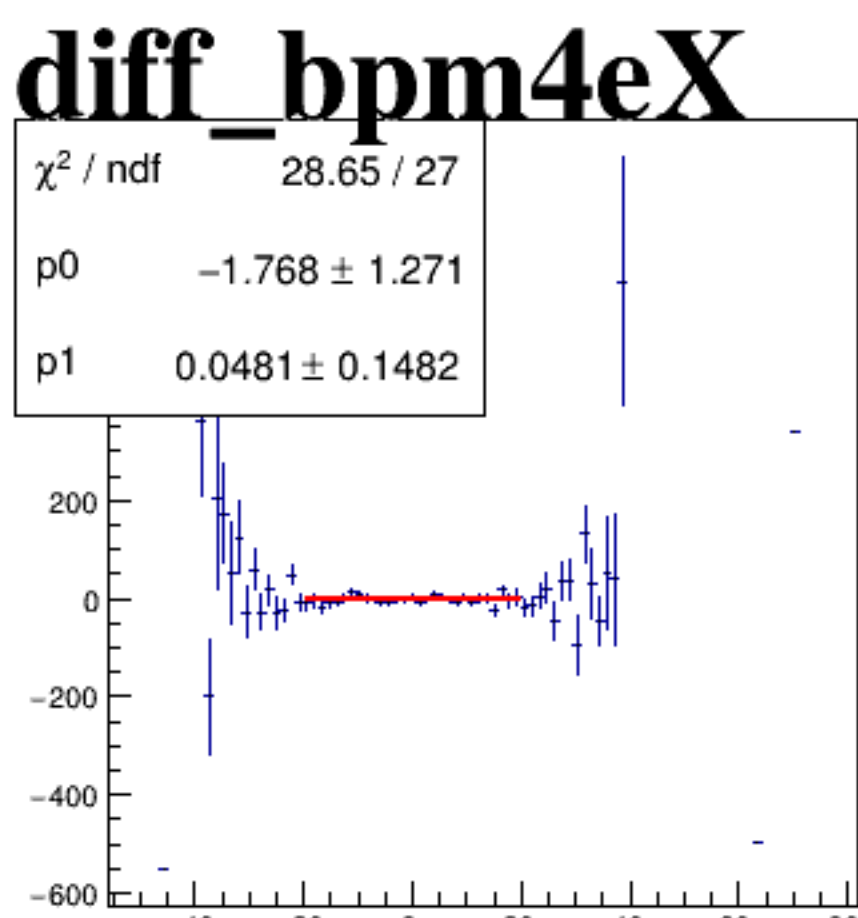
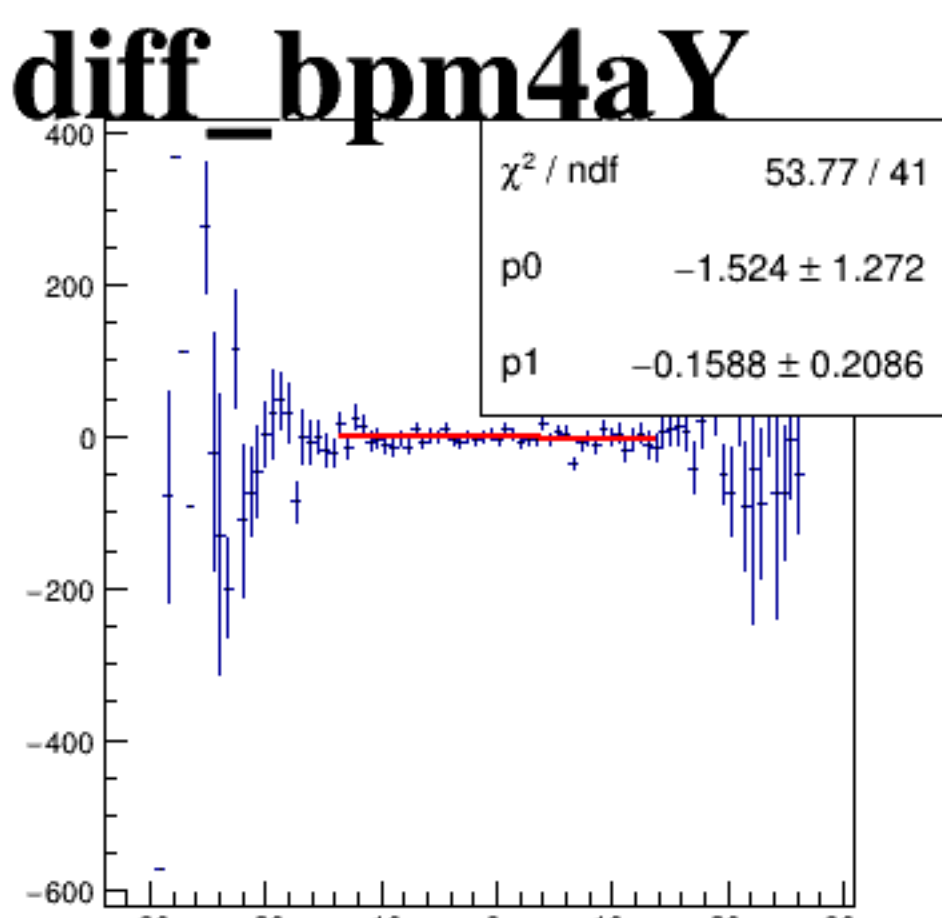
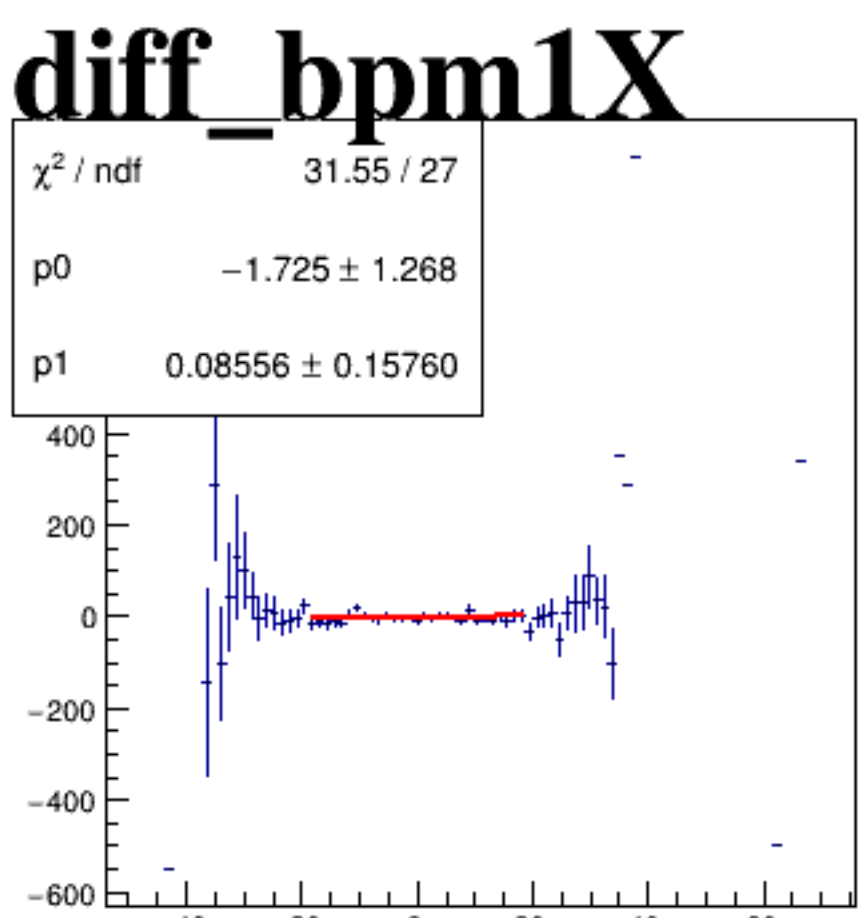
asym_sam8



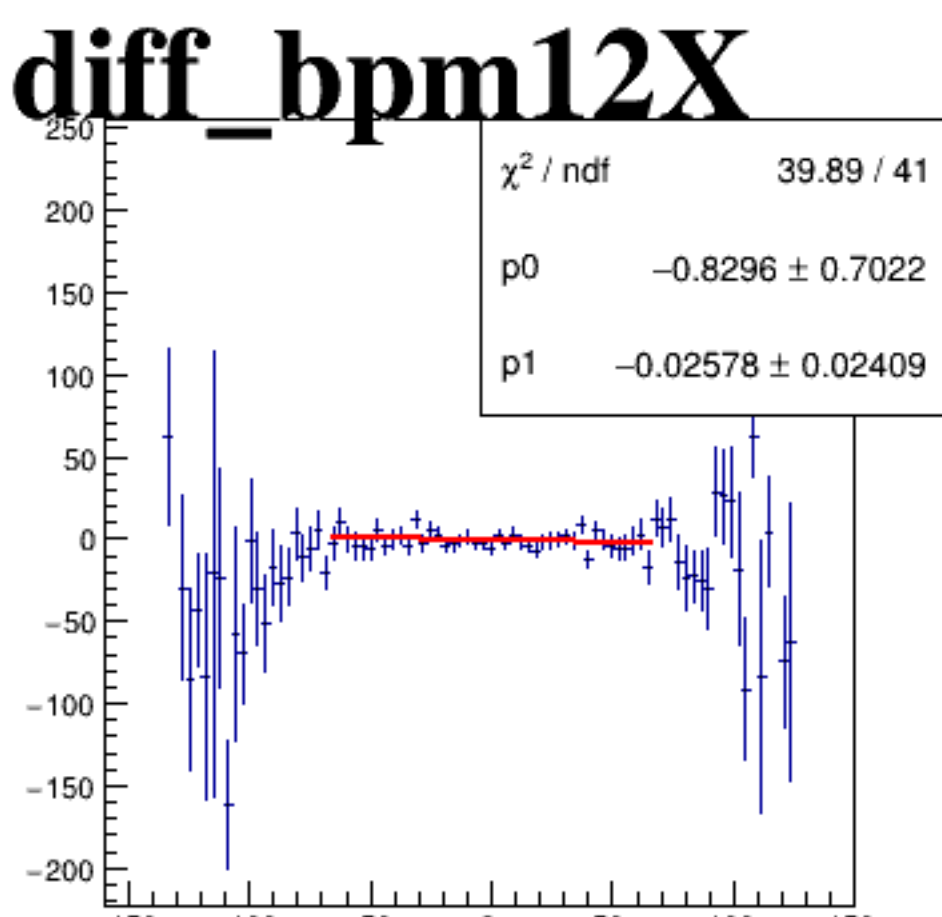
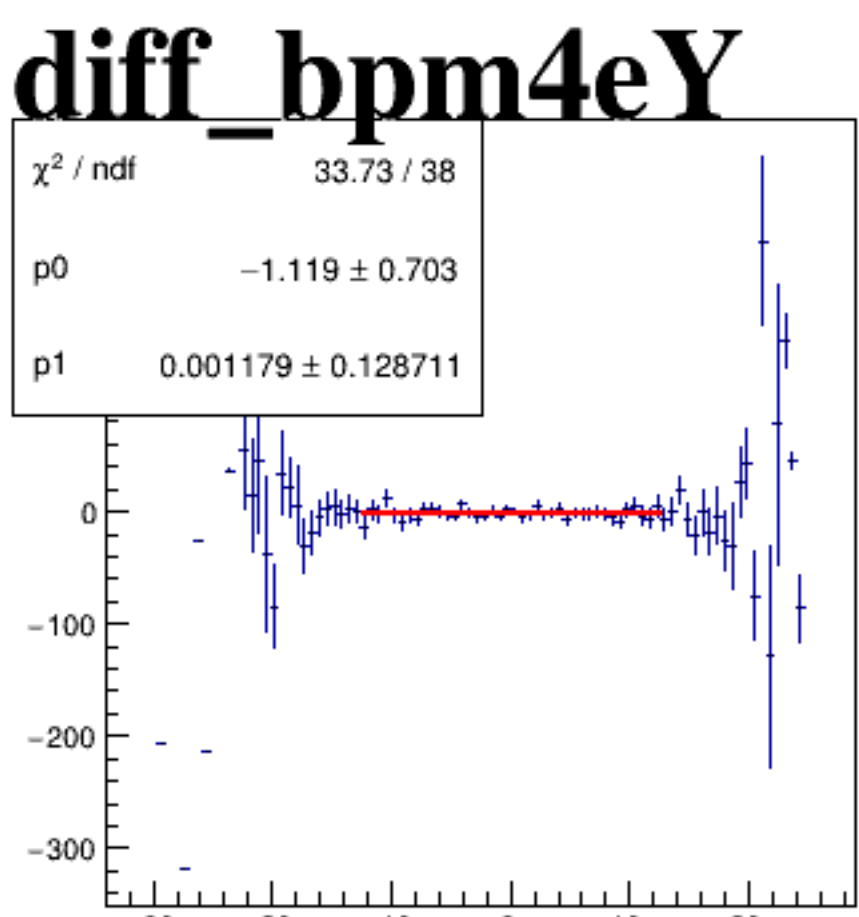
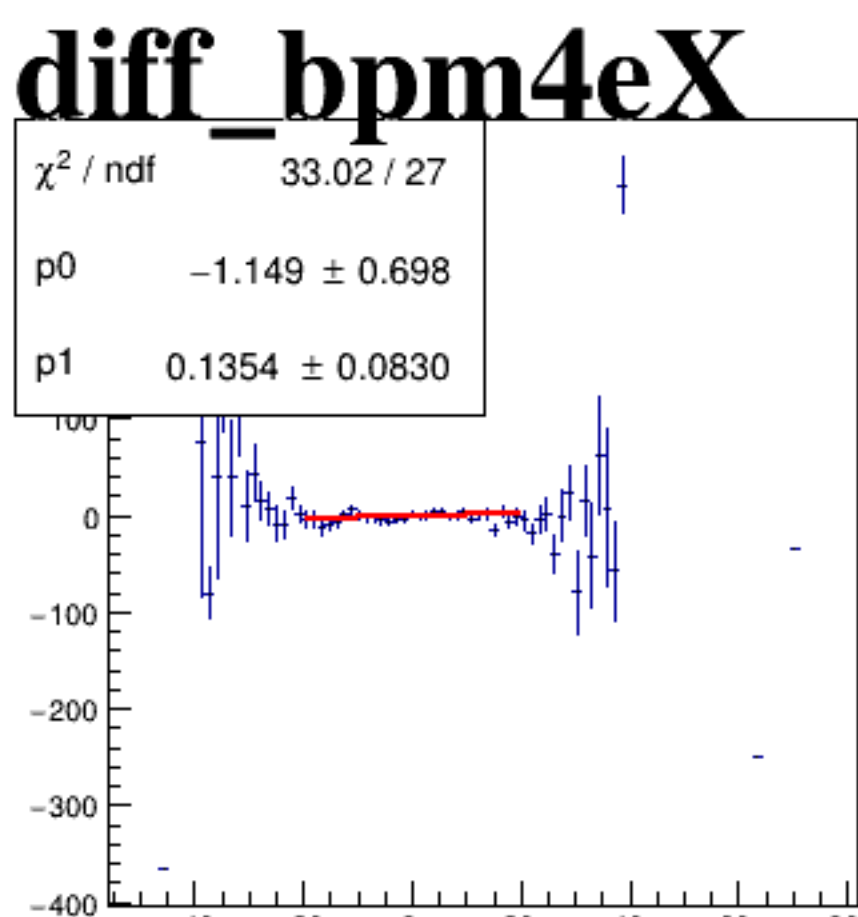
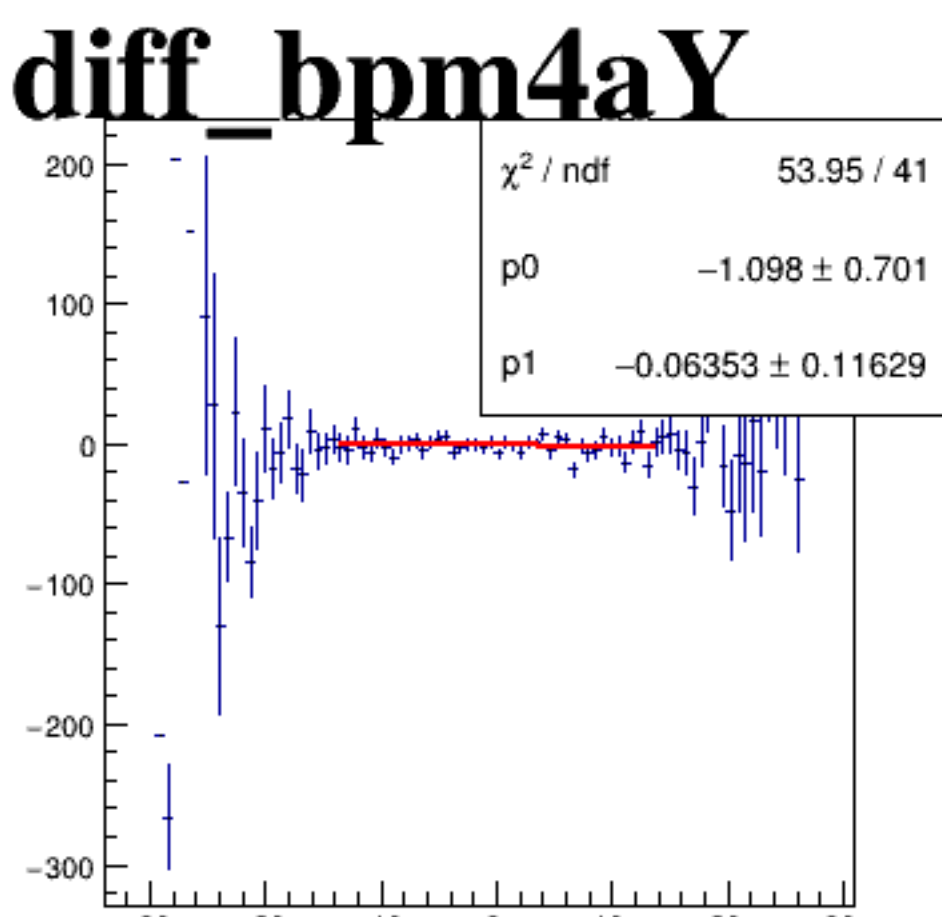
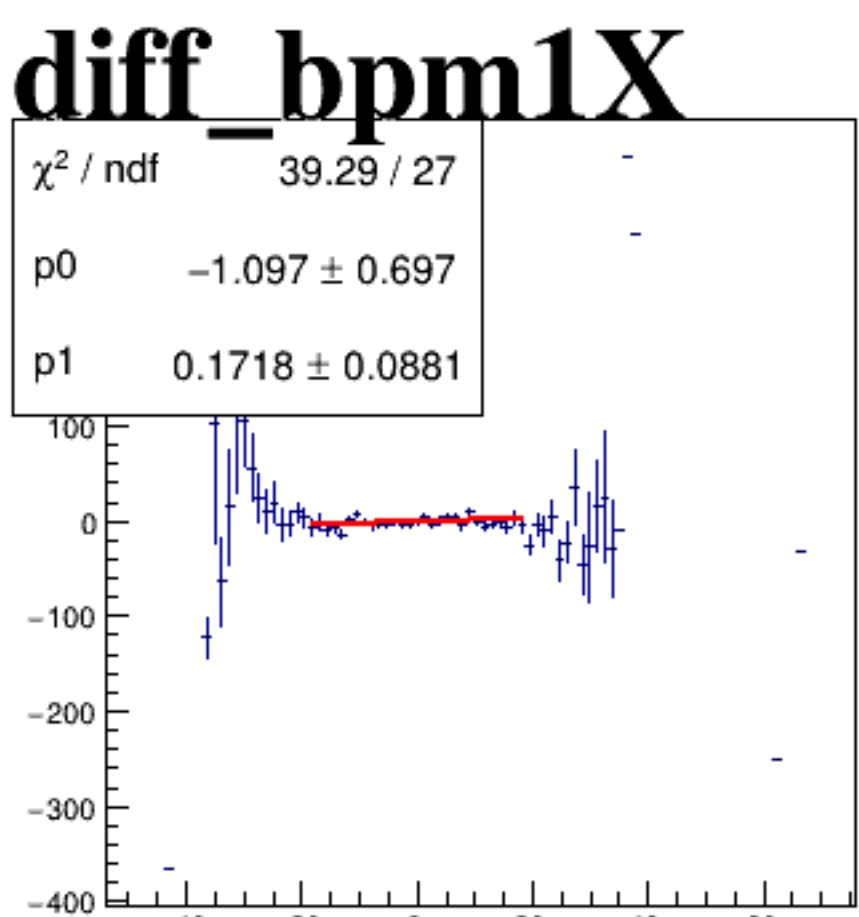
reg_asym_sam2



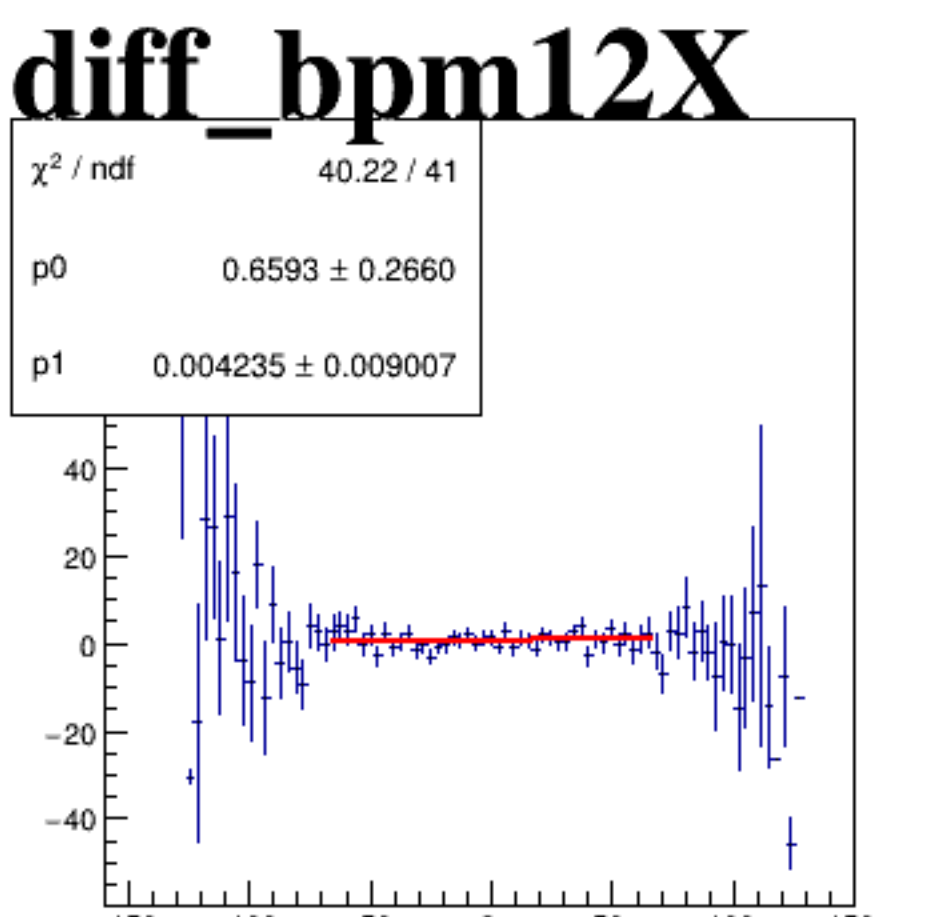
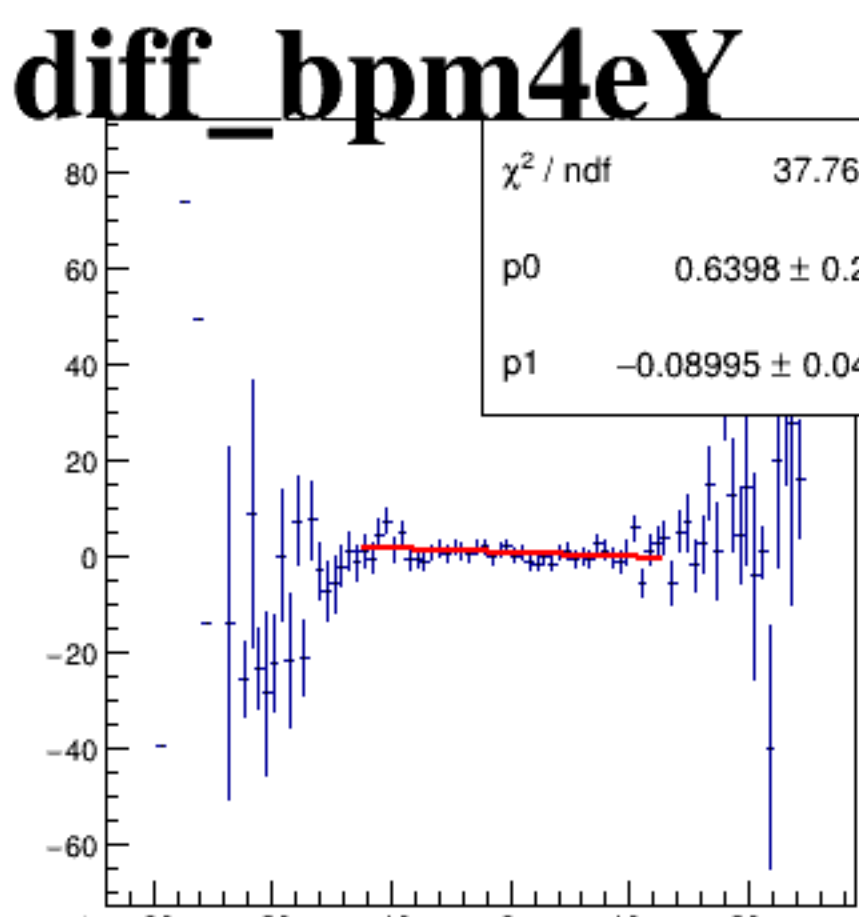
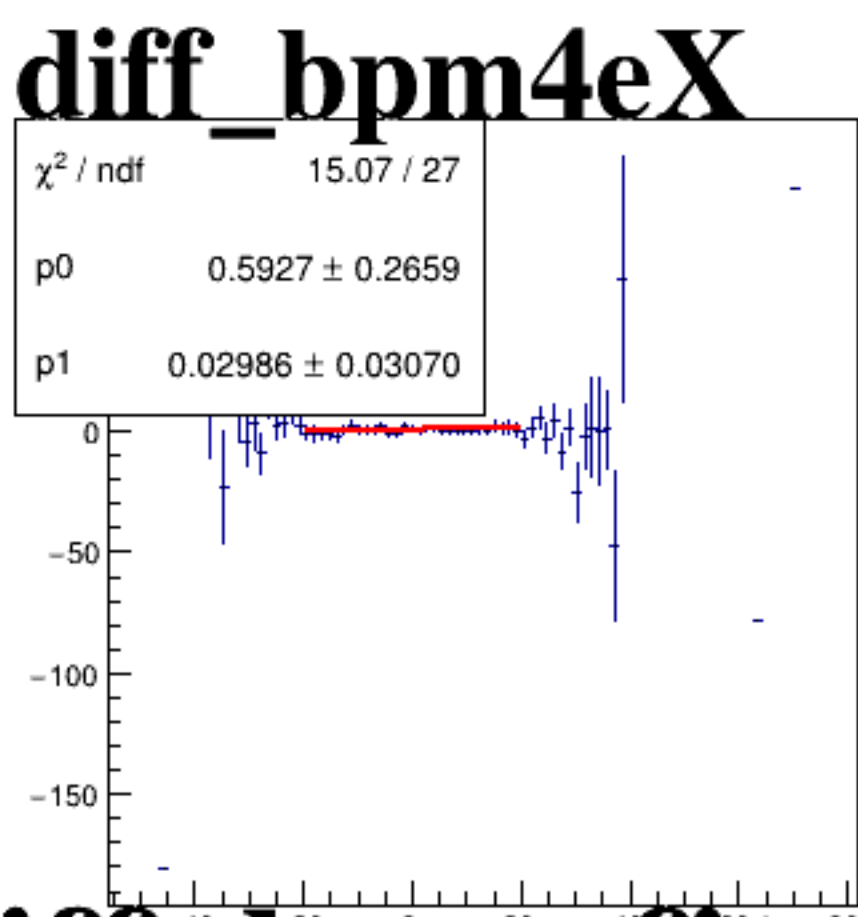
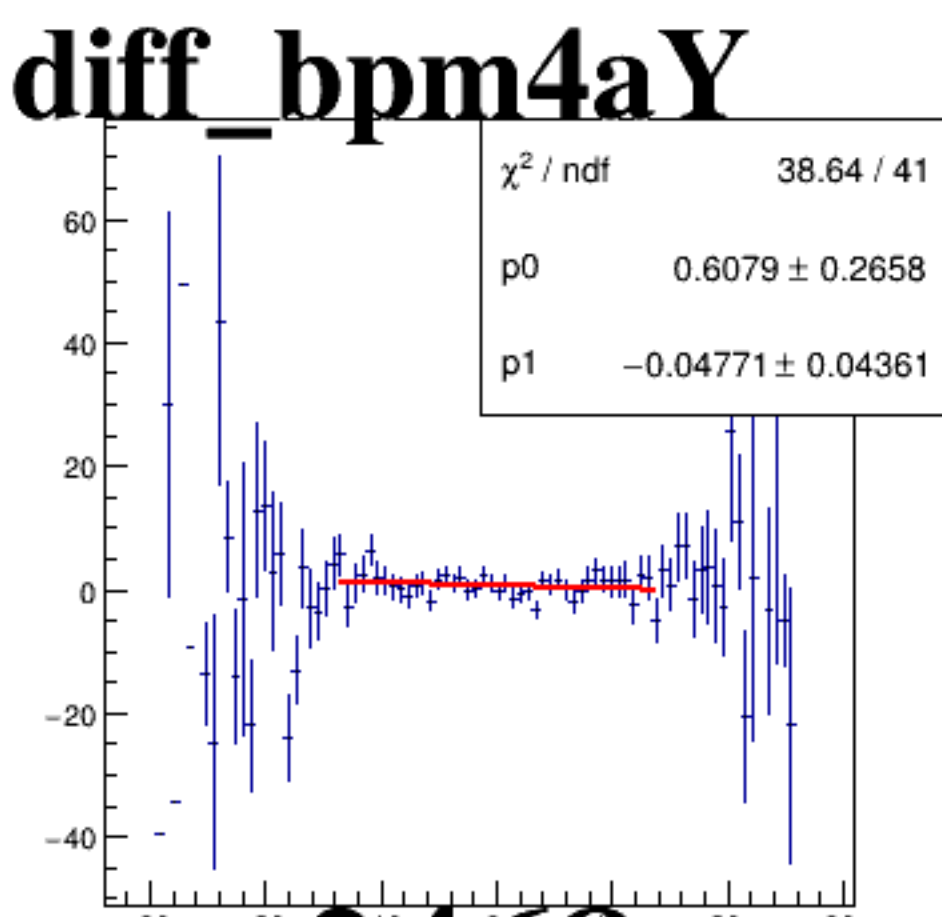
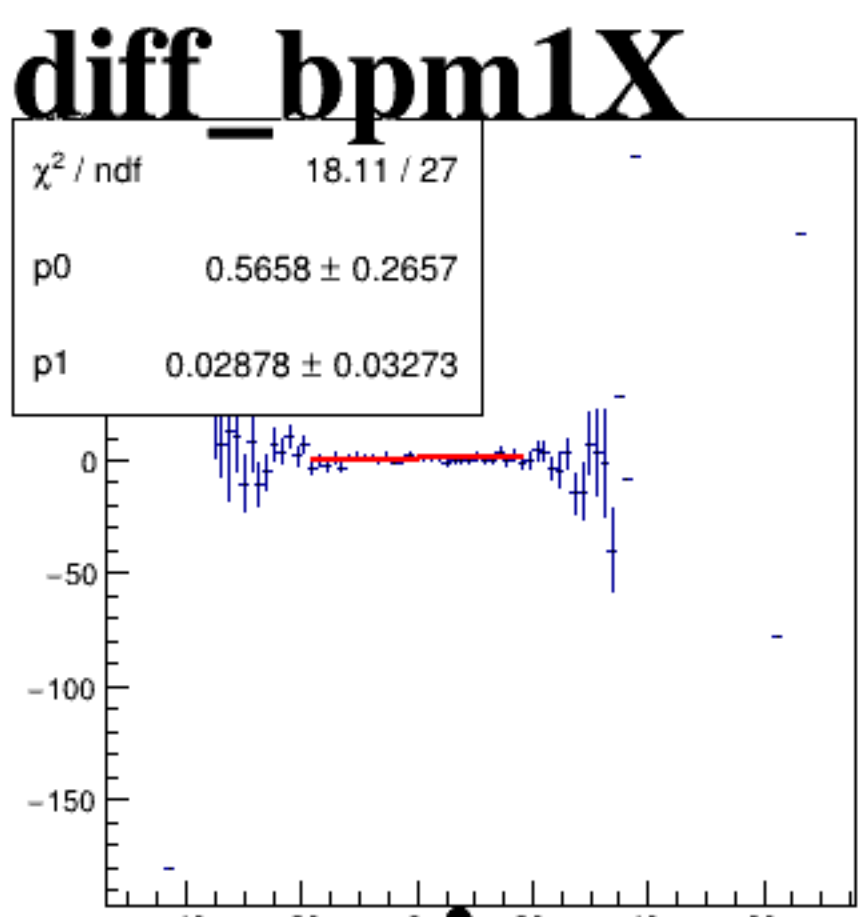
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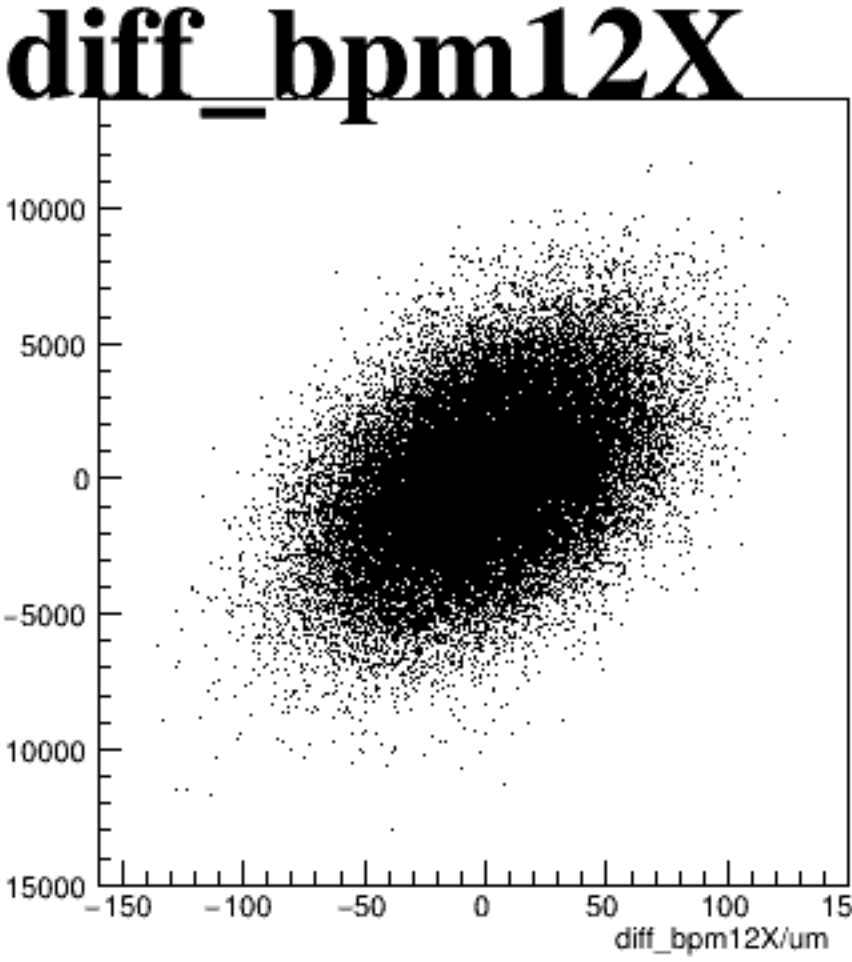
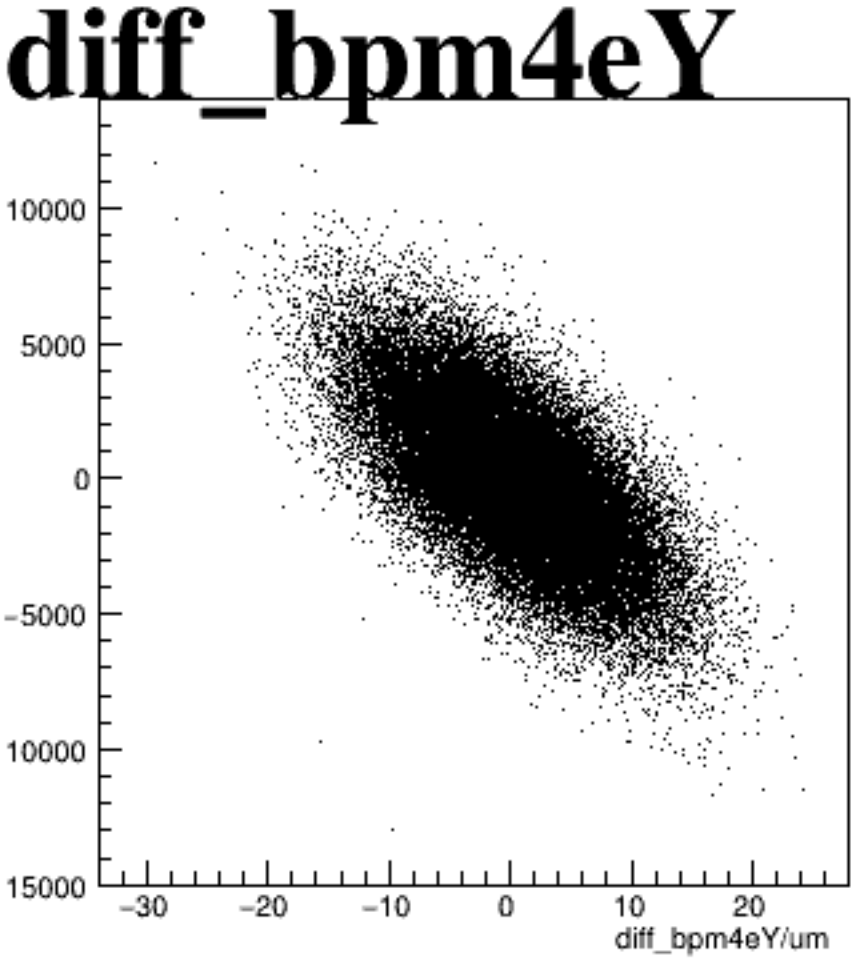
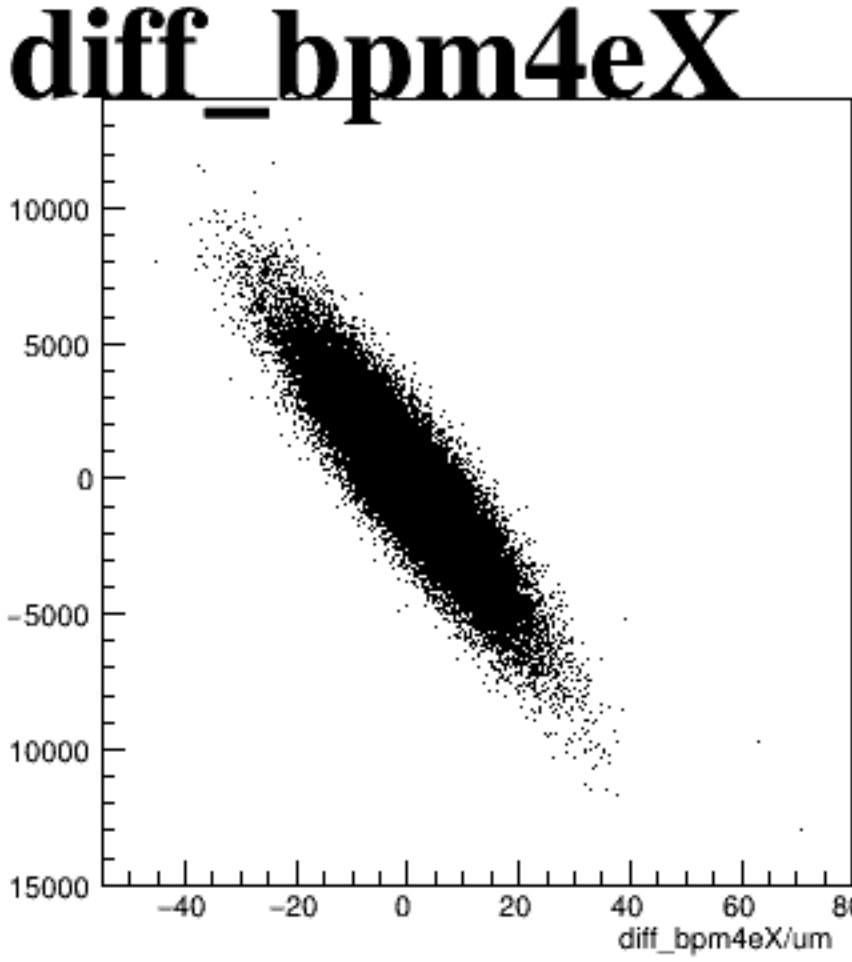
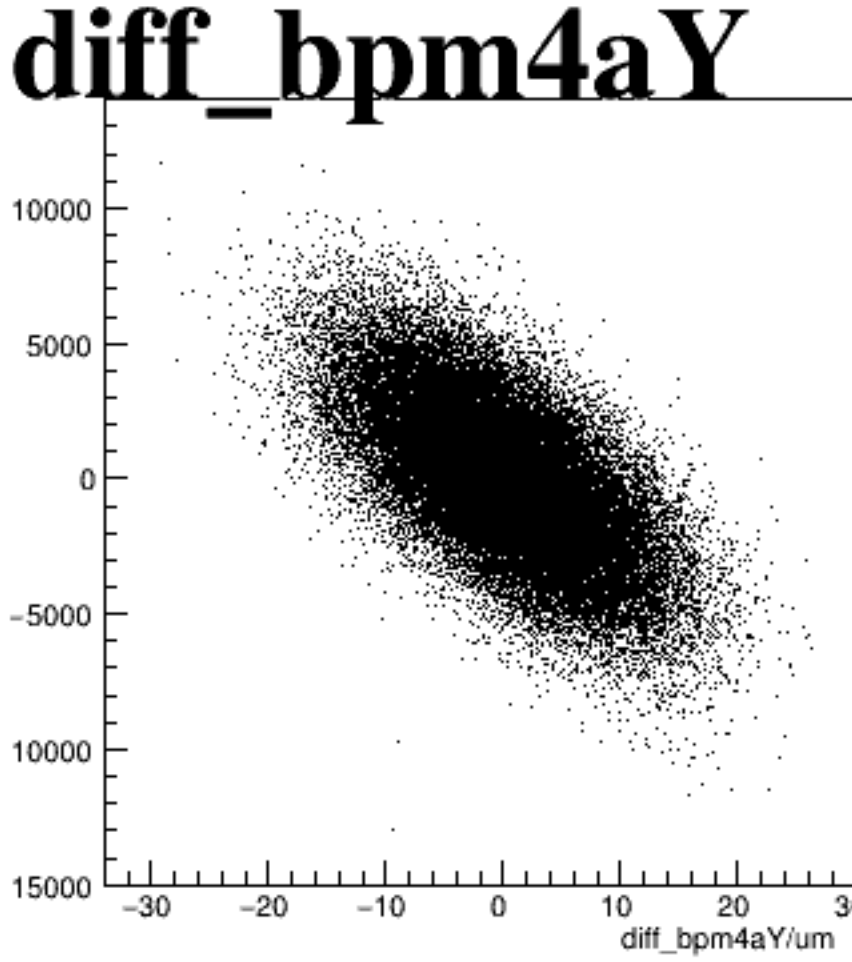
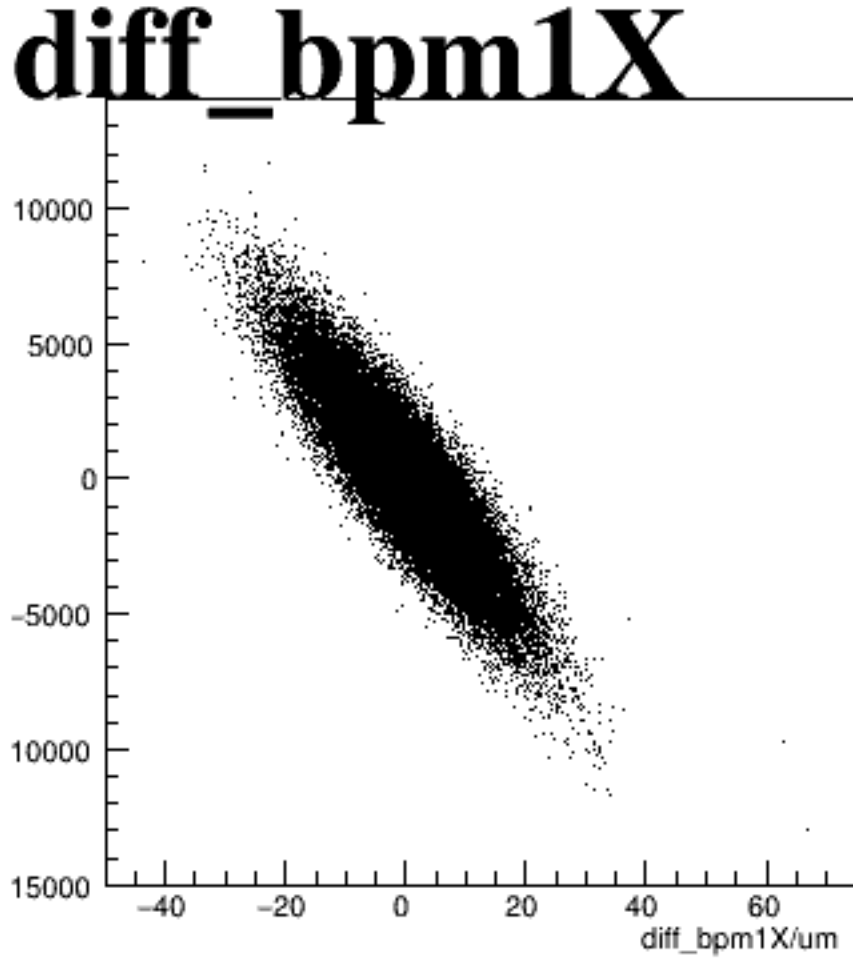
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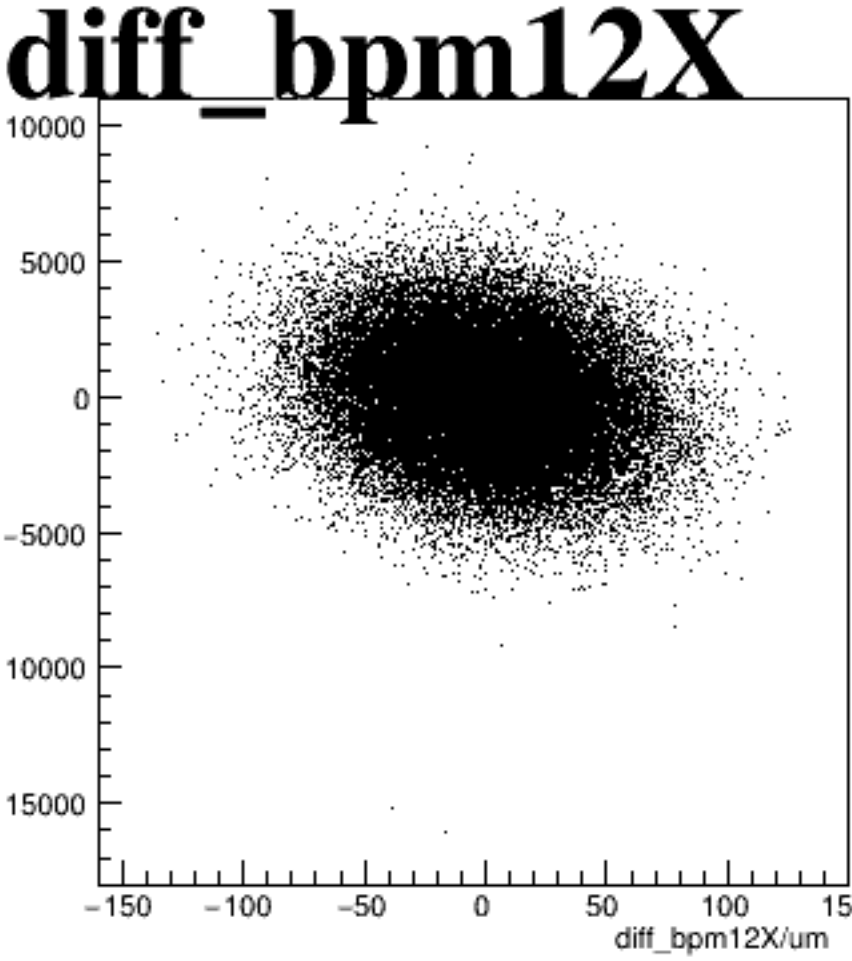
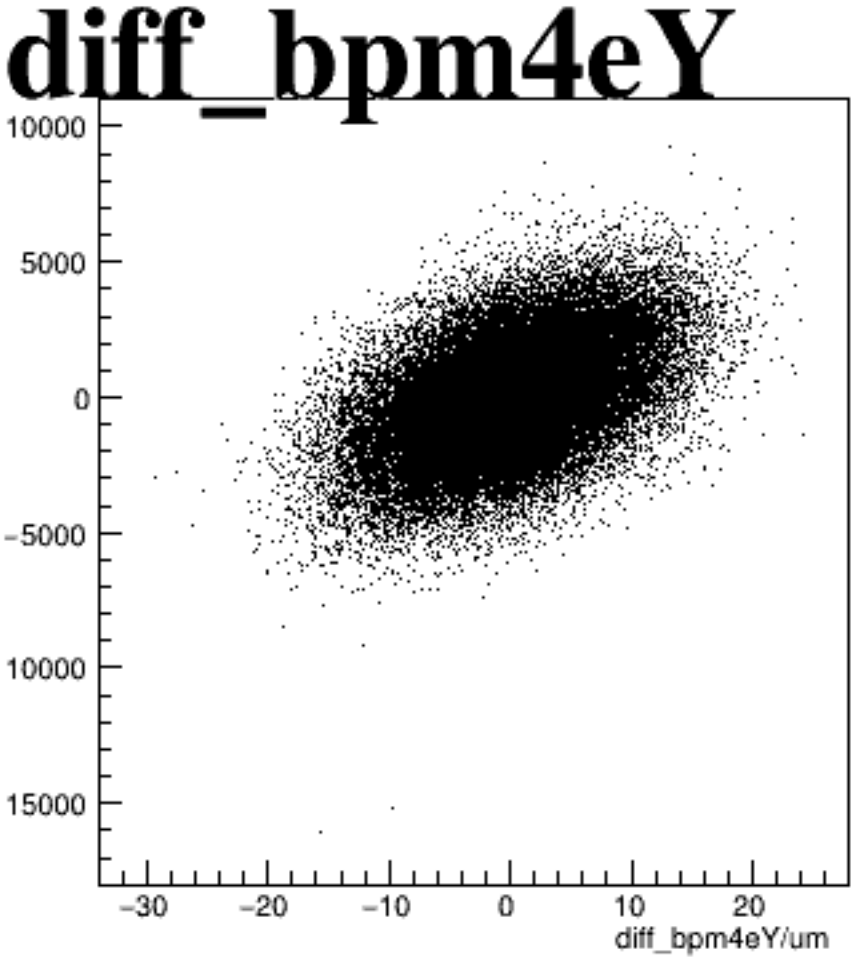
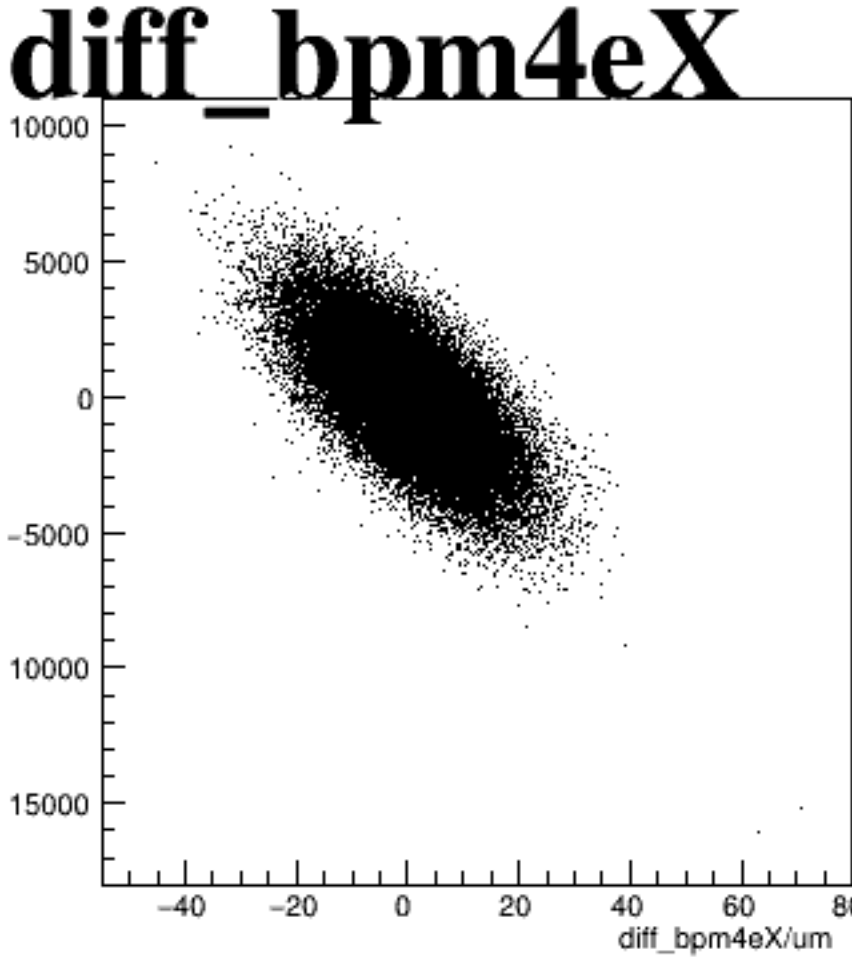
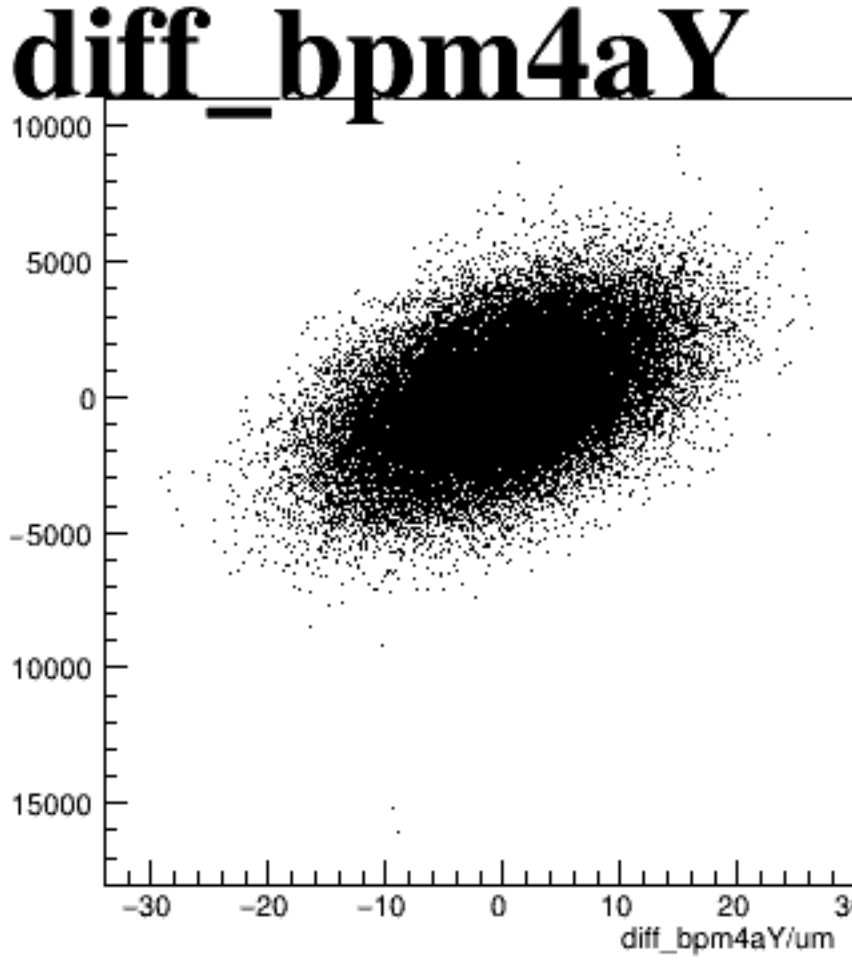
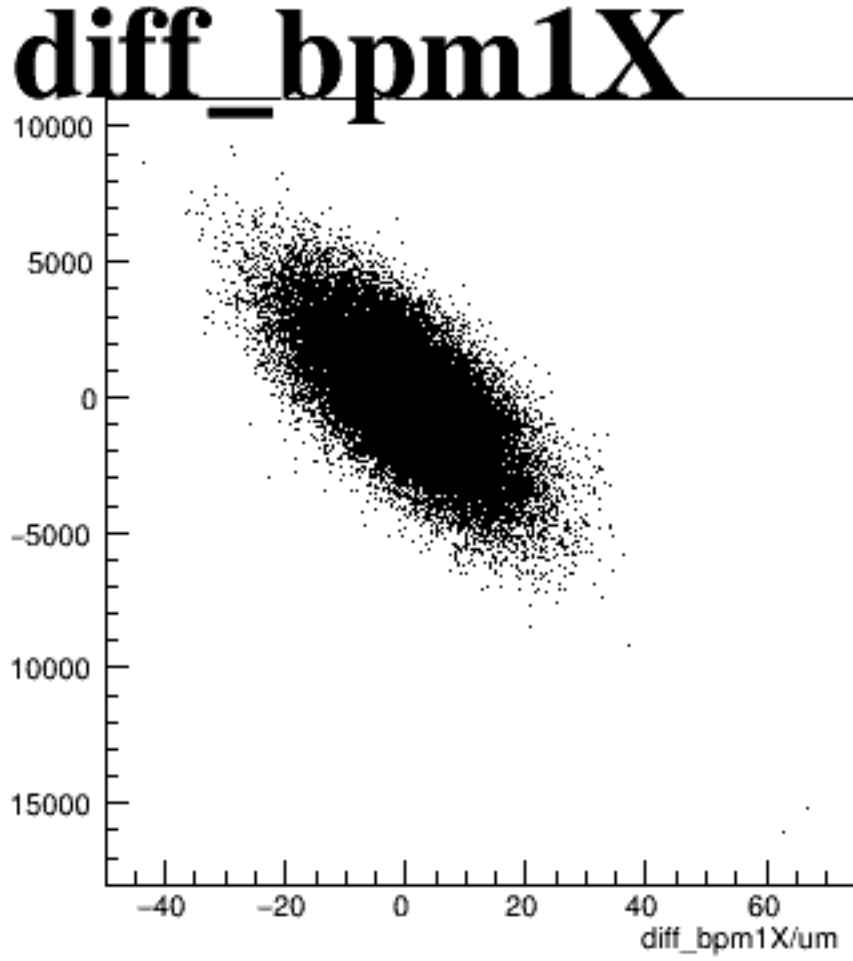
reg_asym_sam8



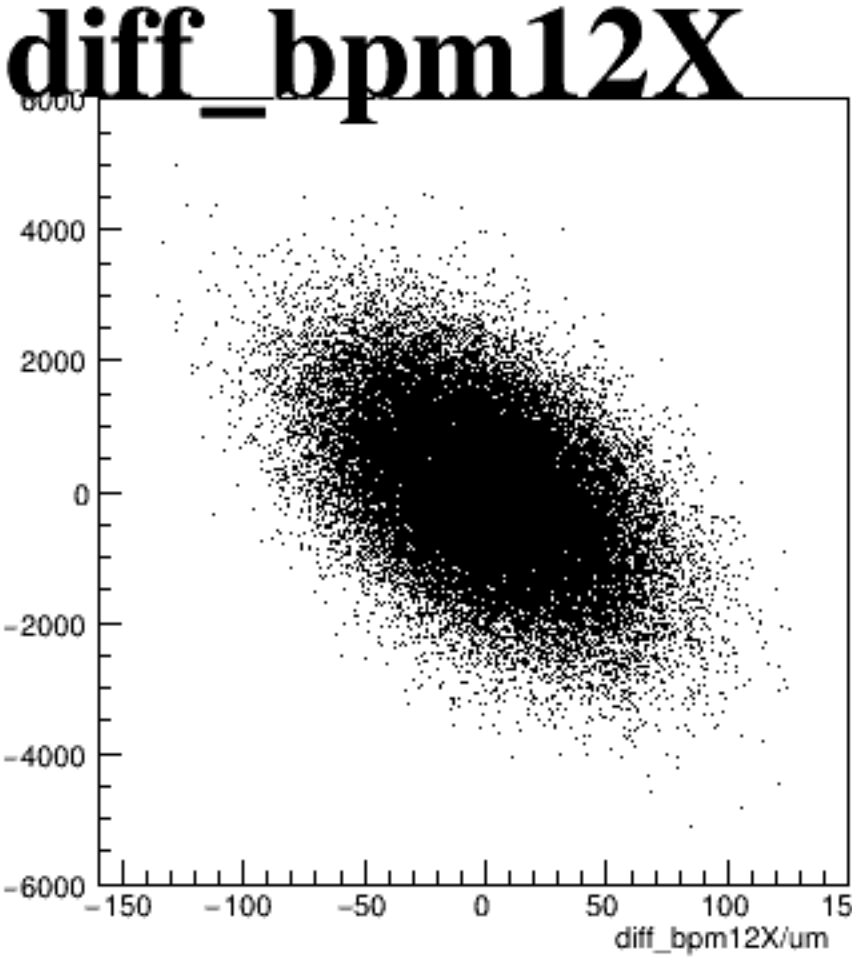
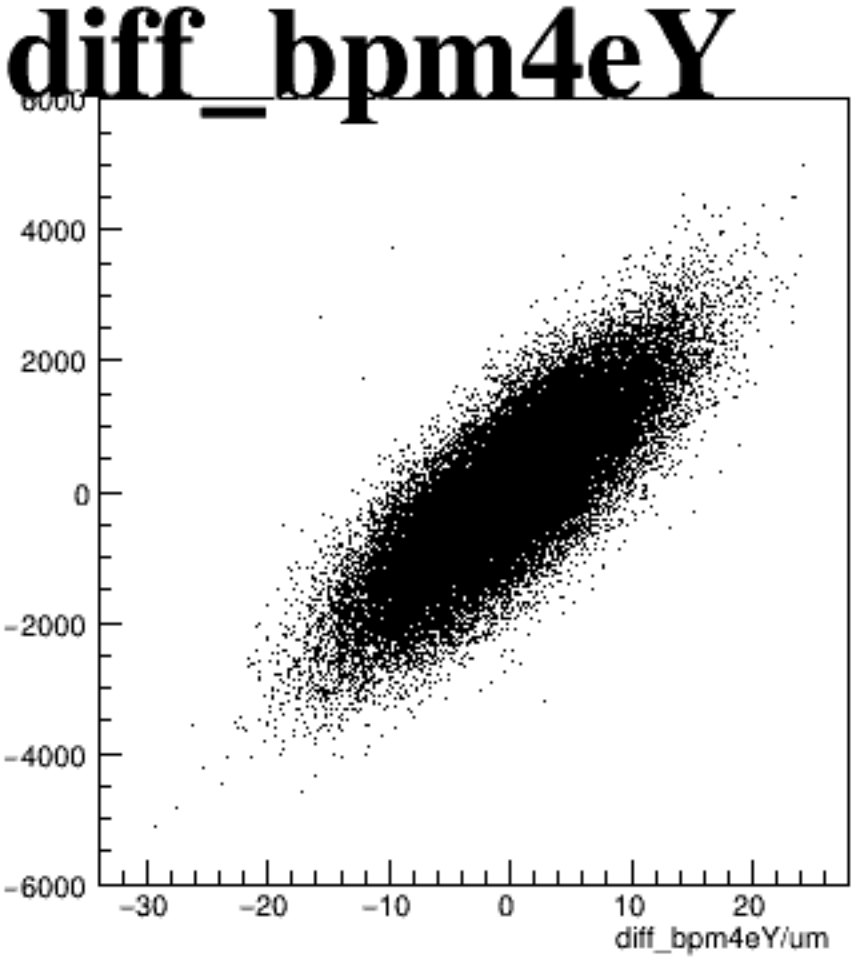
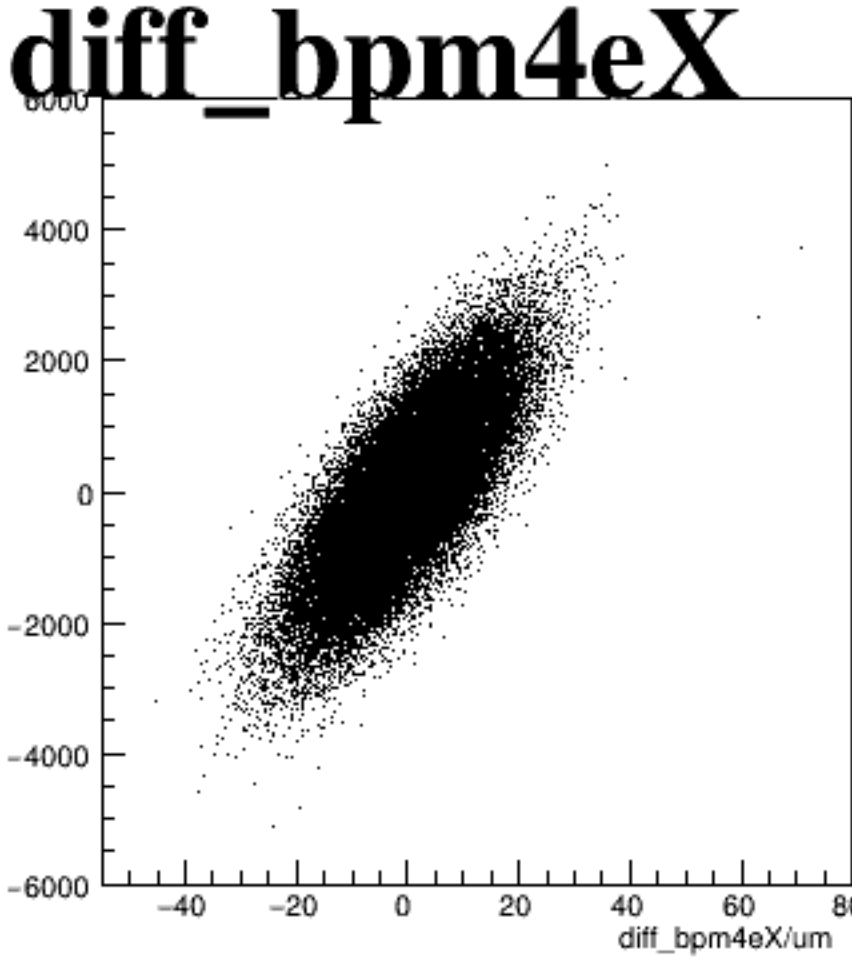
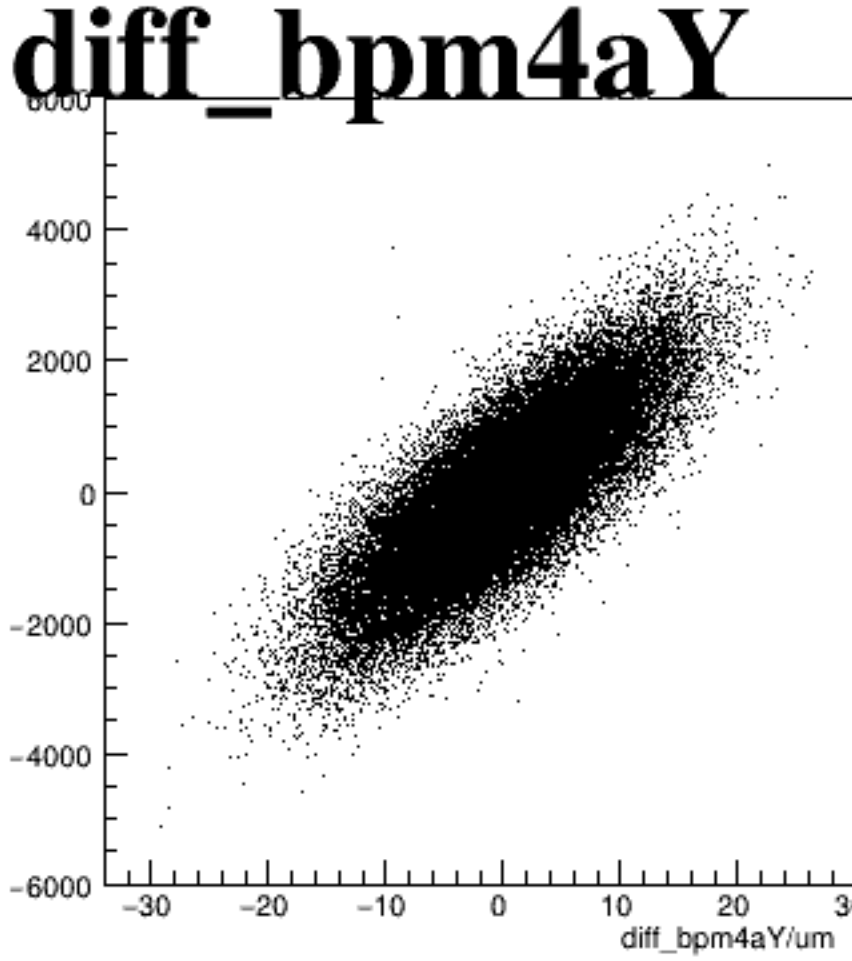
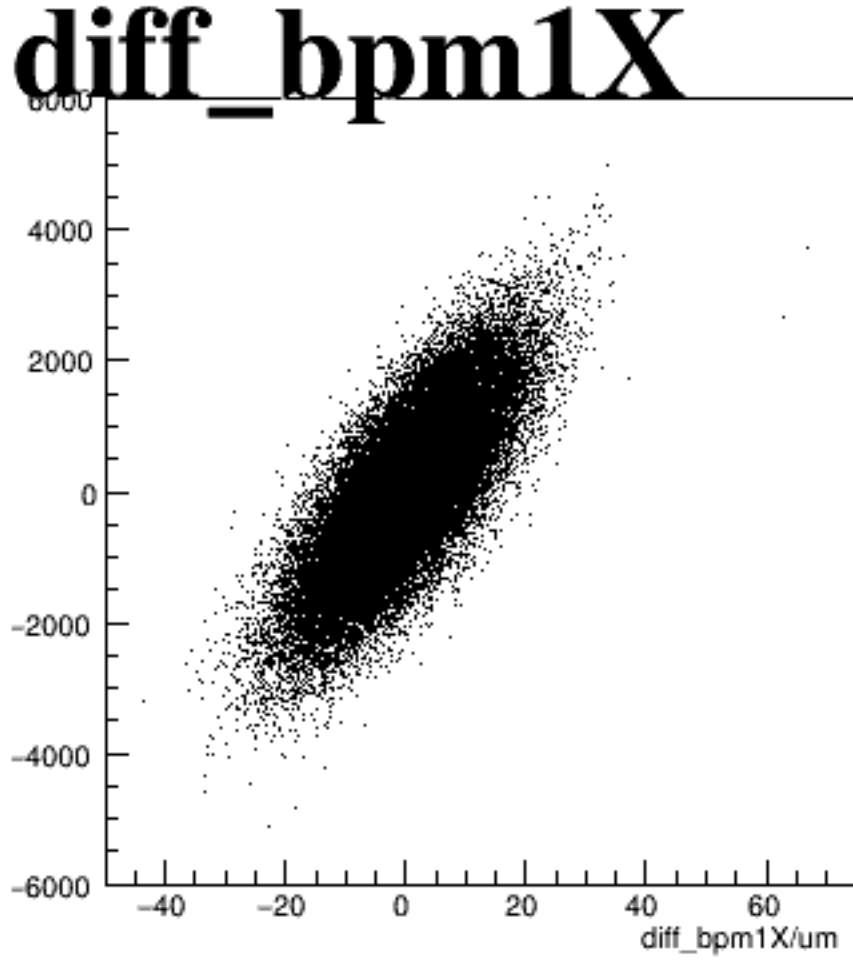
asym_sam2



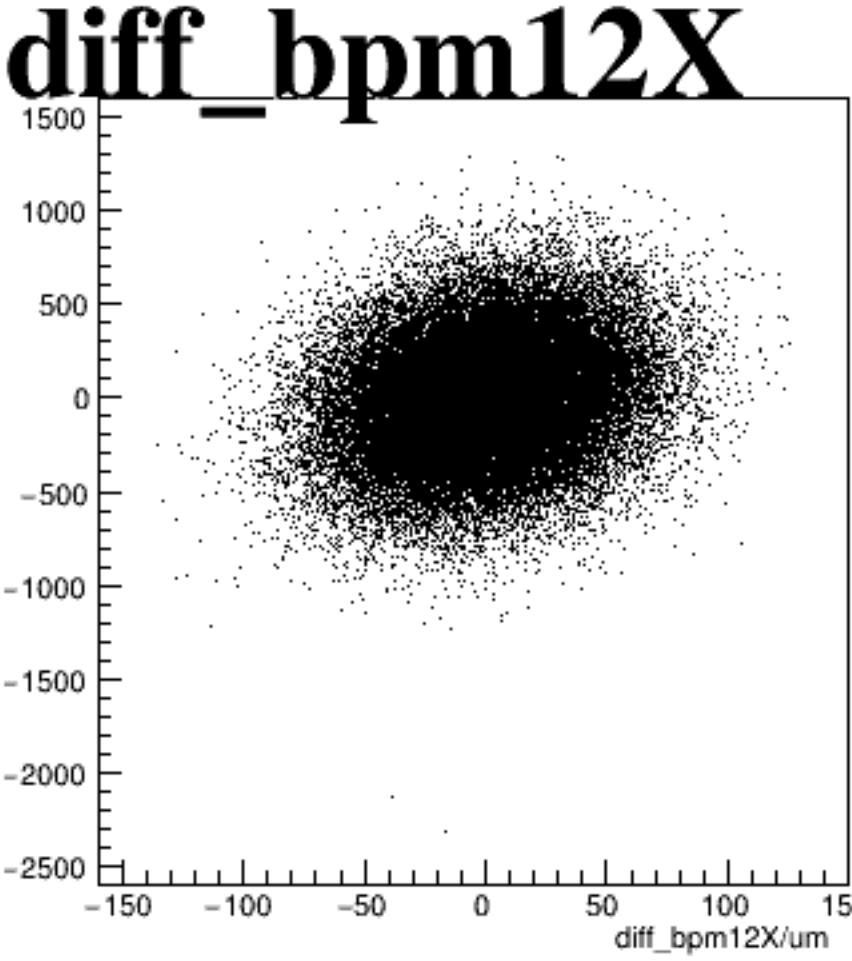
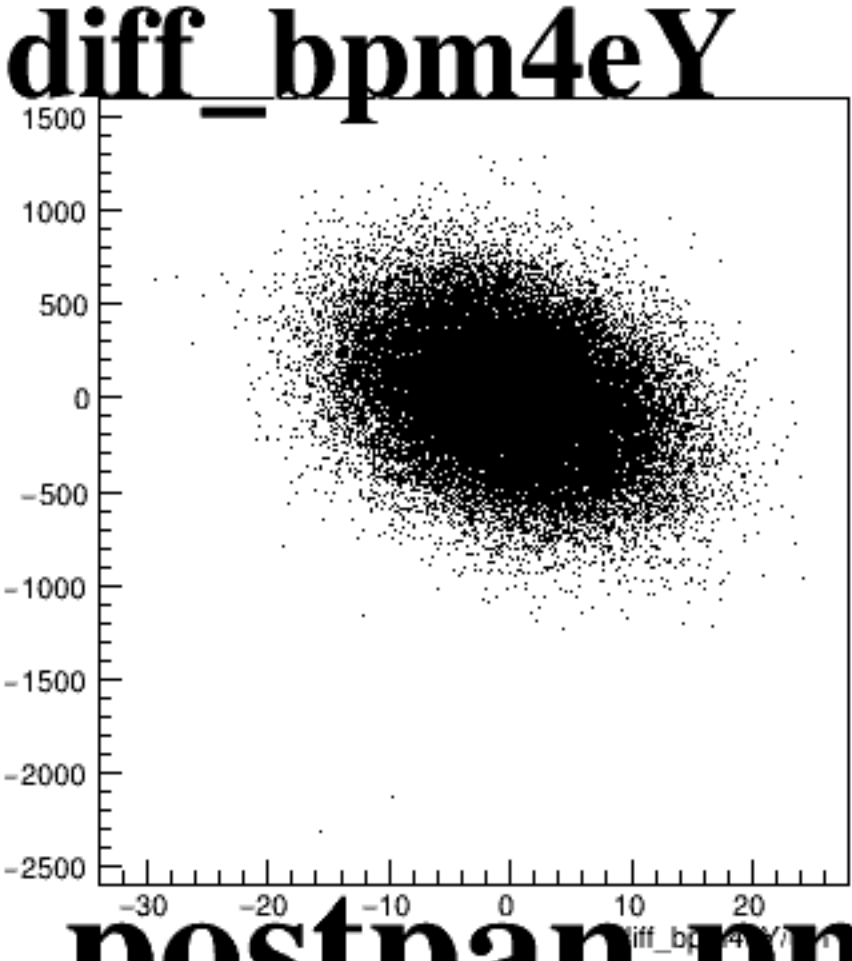
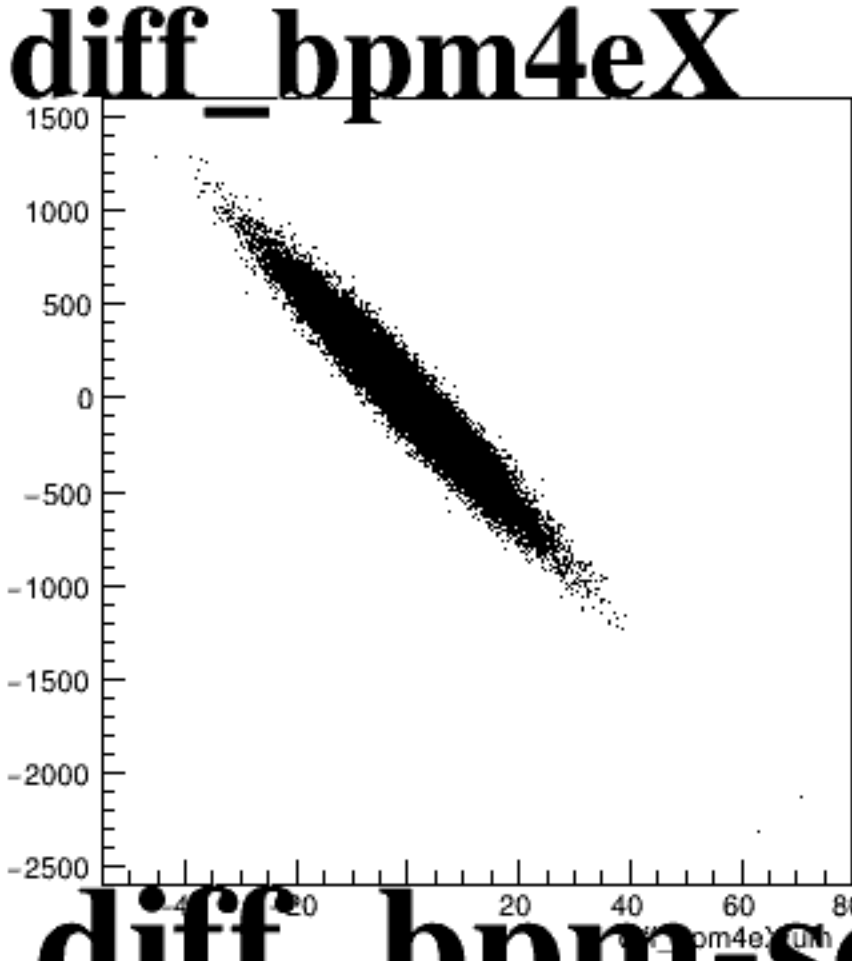
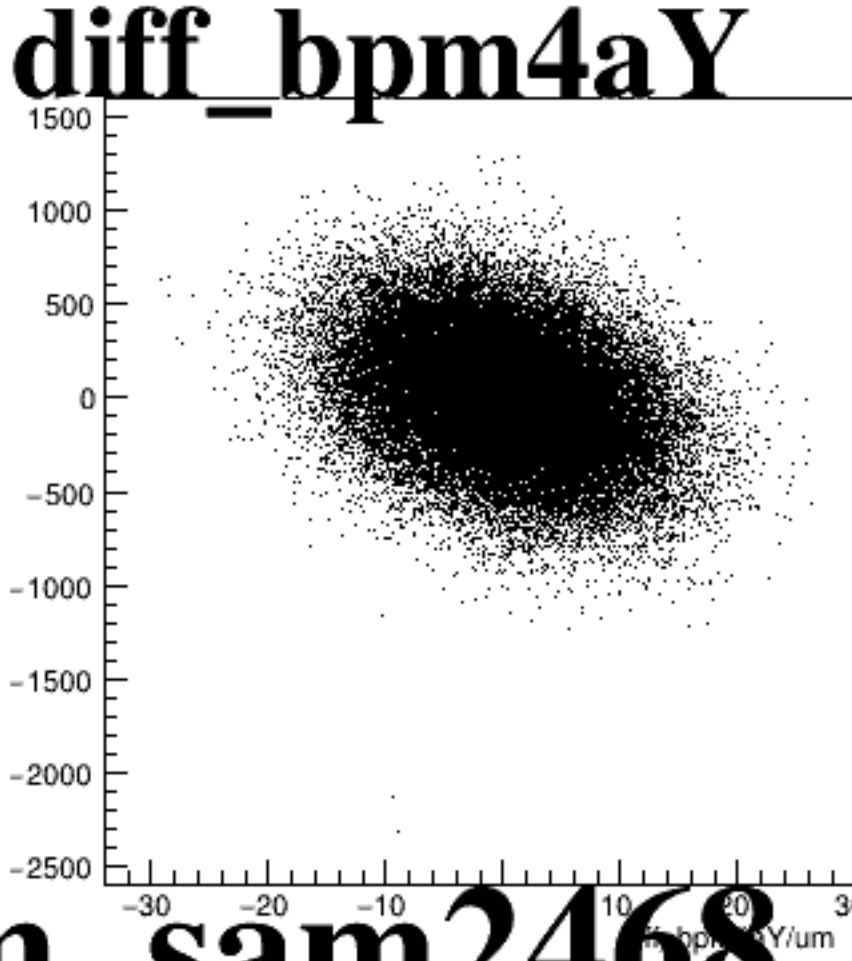
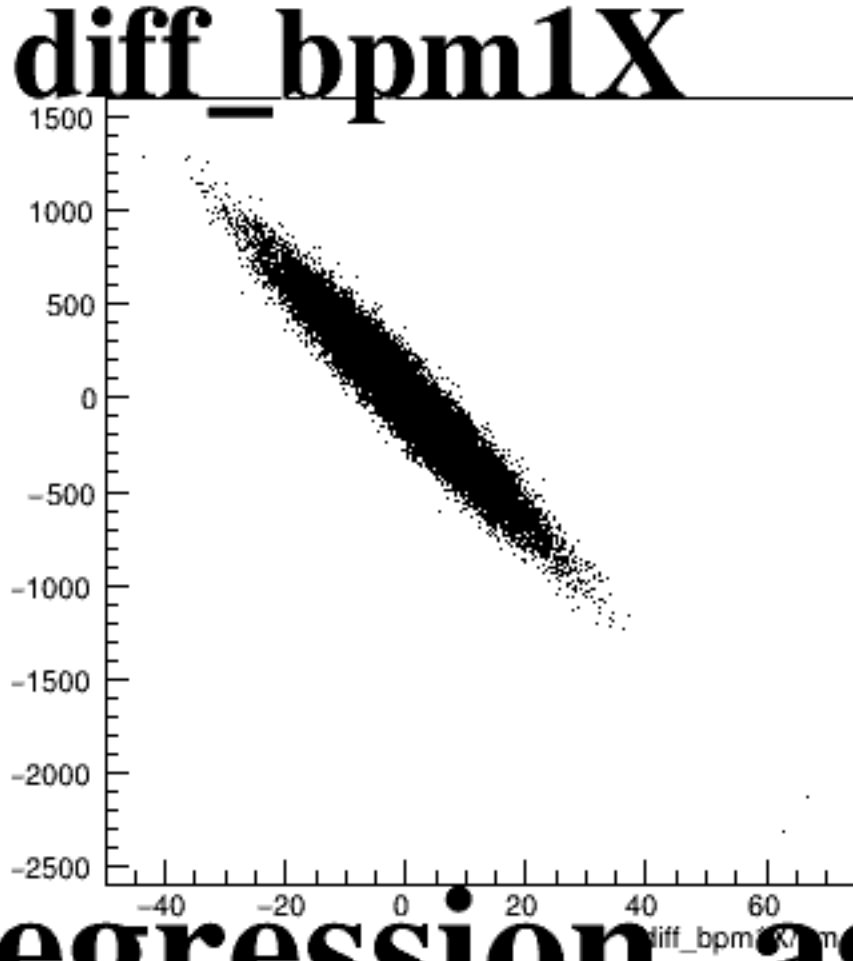
asym_sam4



asym_sam6



asym_sam8

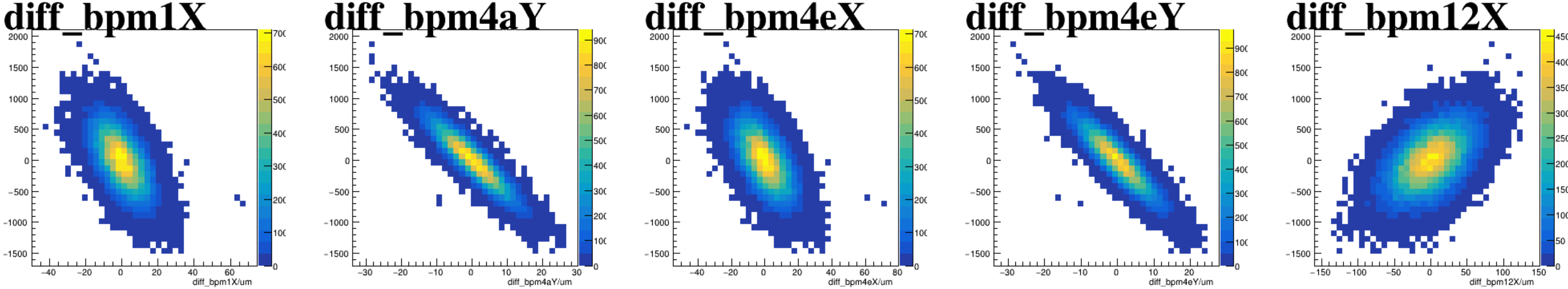


The figure consists of five subplots arranged horizontally, each showing a scatter plot of the difference in BPM coordinates for different beam sizes. The plots are titled as follows:

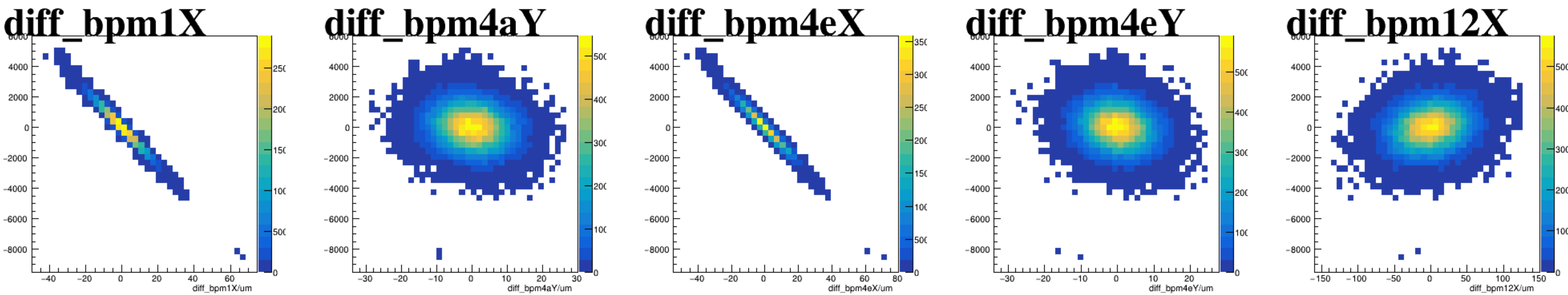
- diff_bpm1X**: The x-axis is labeled $\text{diff_bpm1X}/\mu\text{m}$ and ranges from -40 to 60. The y-axis ranges from -1000 to 1000.
- diff_bpm4aY**: The x-axis is labeled $\text{diff_bpm4aY}/\mu\text{m}$ and ranges from -30 to 30. The y-axis ranges from -1000 to 1000.
- diff_bpm4eX**: The x-axis is labeled $\text{diff_bpm4eX}/\mu\text{m}$ and ranges from -40 to 80. The y-axis ranges from -1000 to 1000.
- diff_bpm4eY**: The x-axis is labeled $\text{diff_bpm4eY}/\mu\text{m}$ and ranges from -30 to 20. The y-axis ranges from -1000 to 1000.
- diff_bpm12X**: The x-axis is labeled $\text{diff_bpm12X}/\mu\text{m}$ and ranges from -150 to 150. The y-axis ranges from -1000 to 1000.

All plots show a dense, roughly circular distribution of points centered at (0,0), indicating that the difference in BPM coordinates is generally small and centered around zero for all beam sizes.

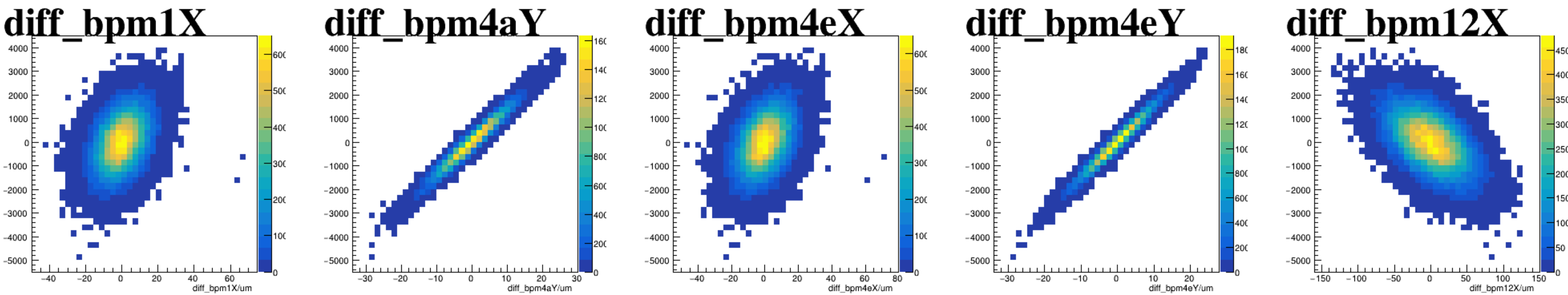
asym_sam1



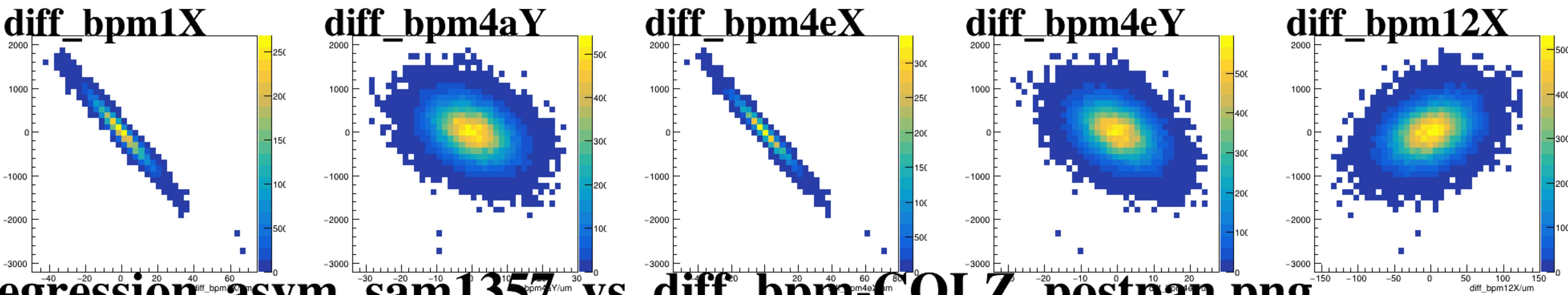
asym_sam3



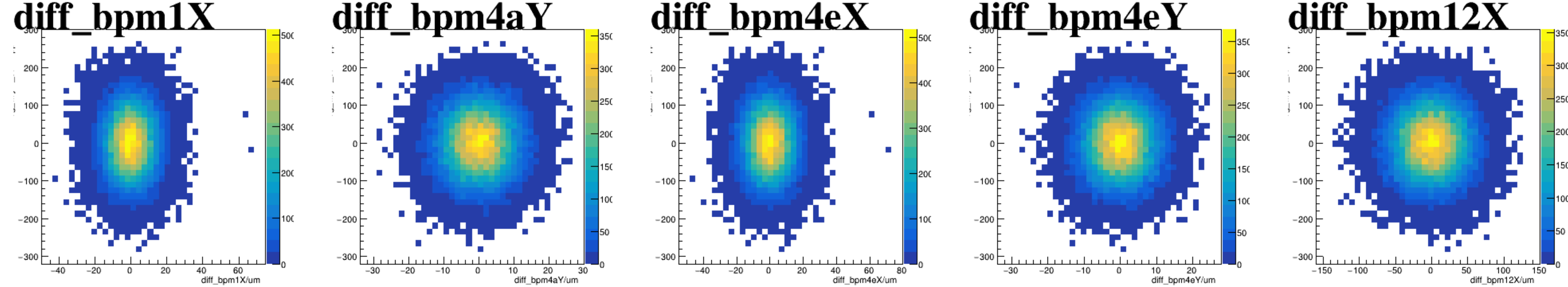
asym_sam5



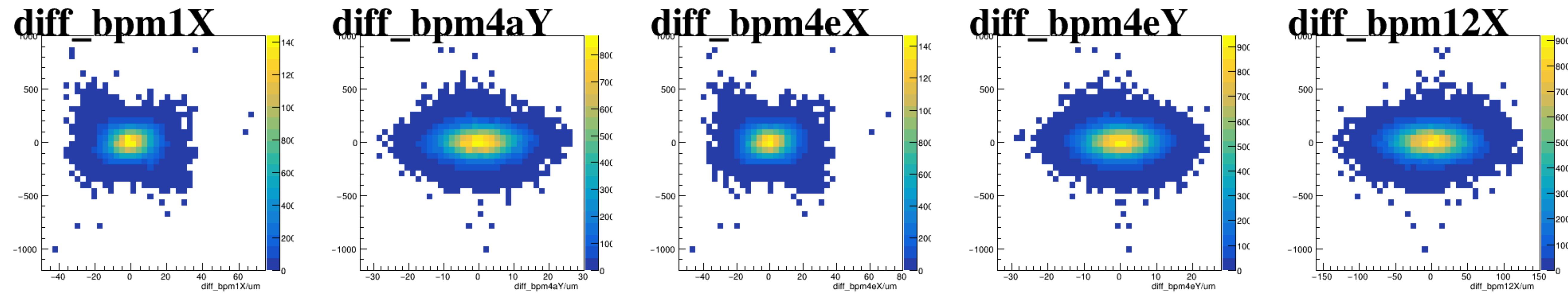
asym_sam7



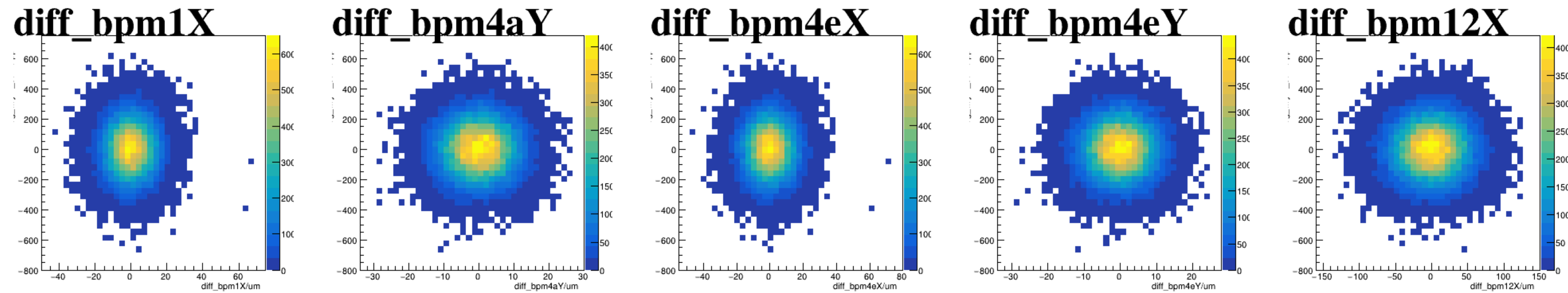
reg_asym_sam1



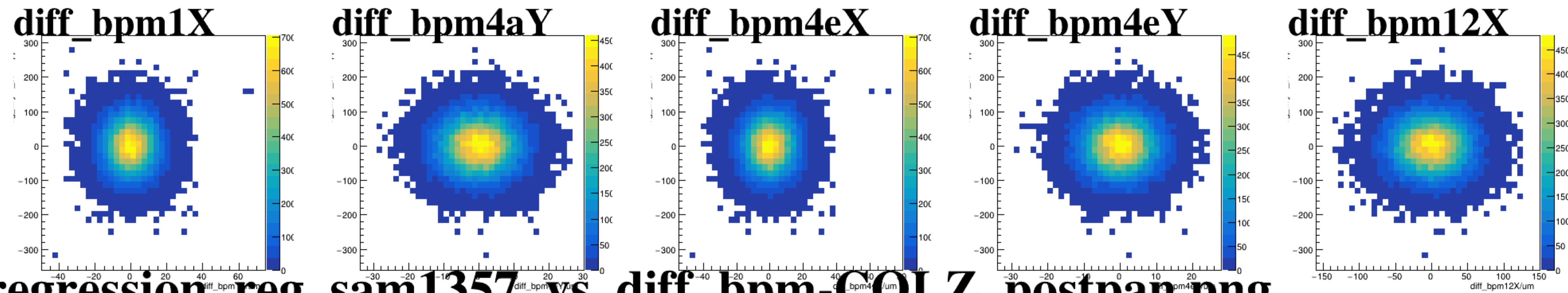
reg_asym_sam3



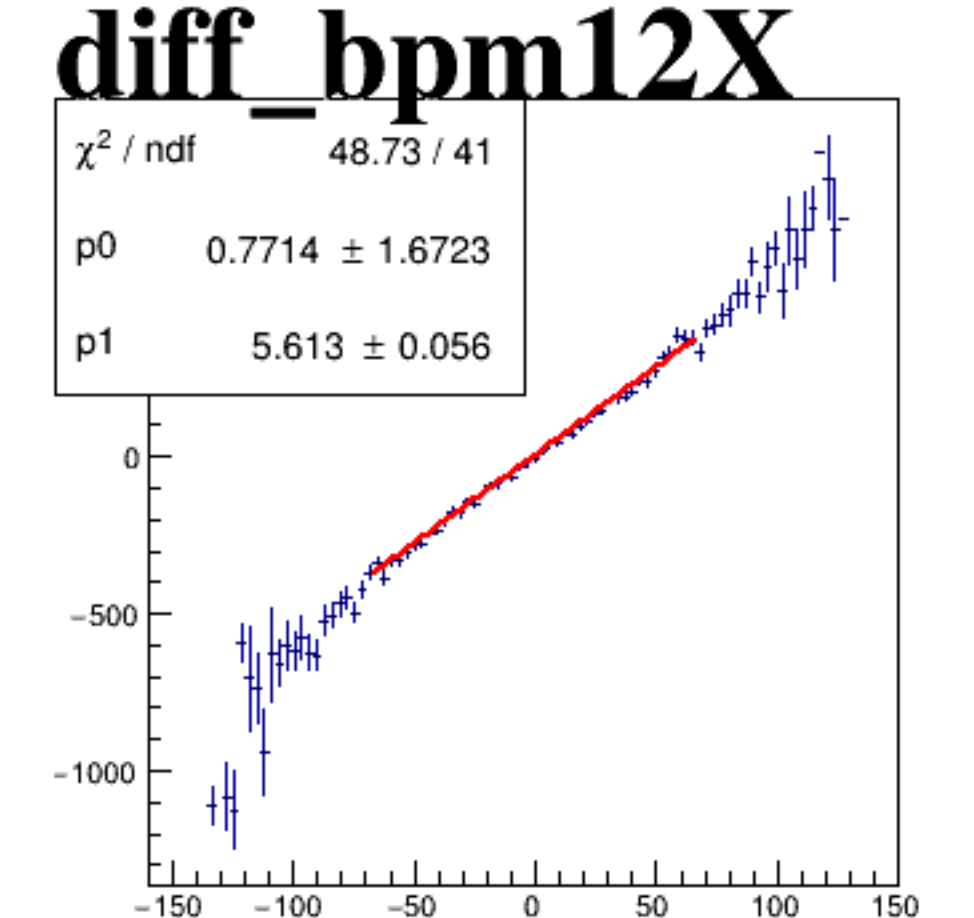
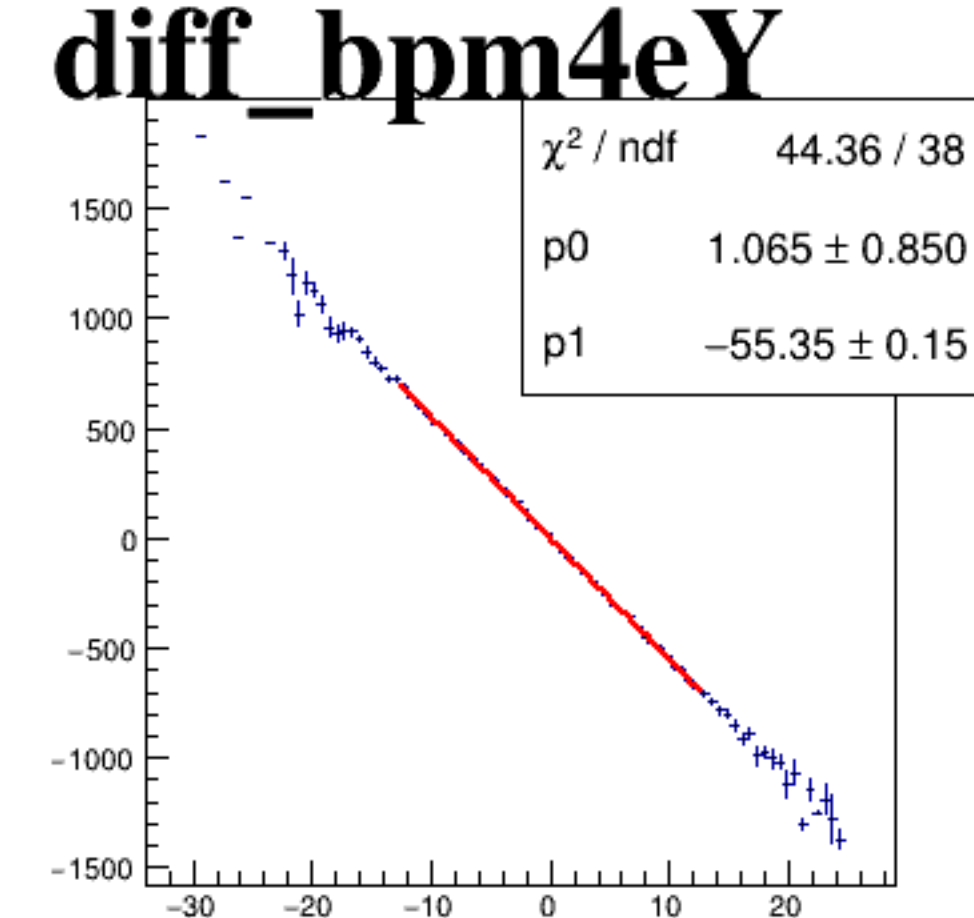
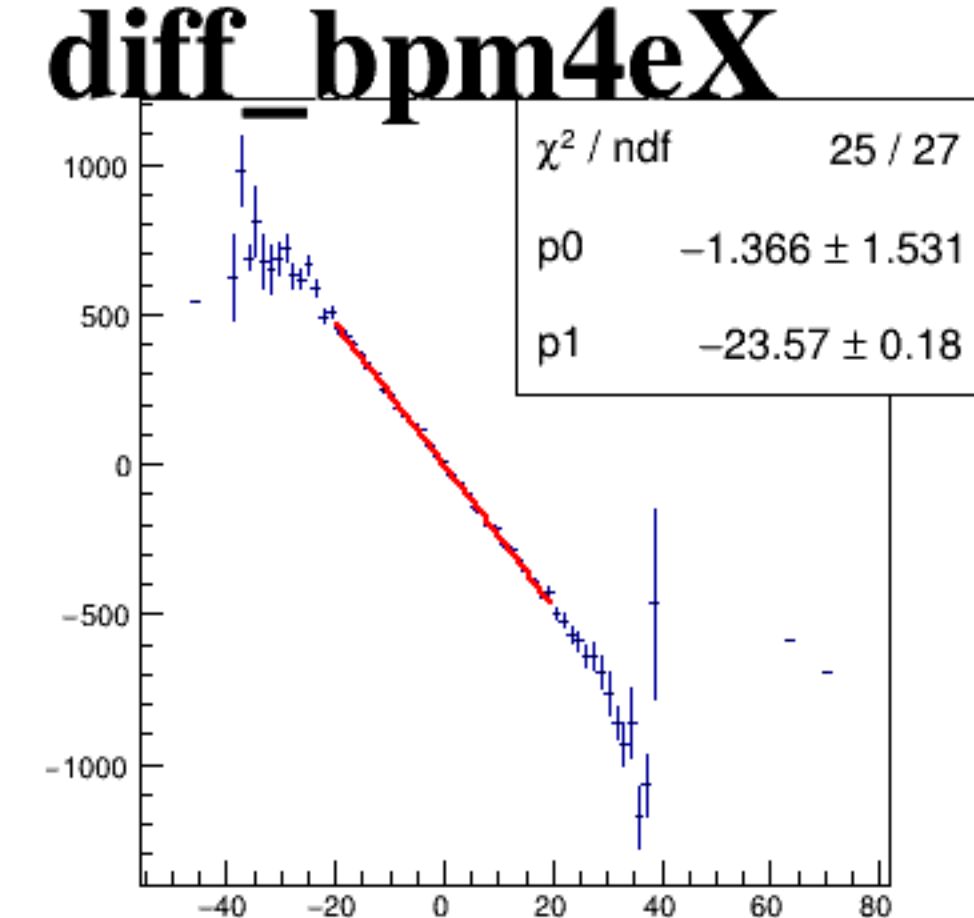
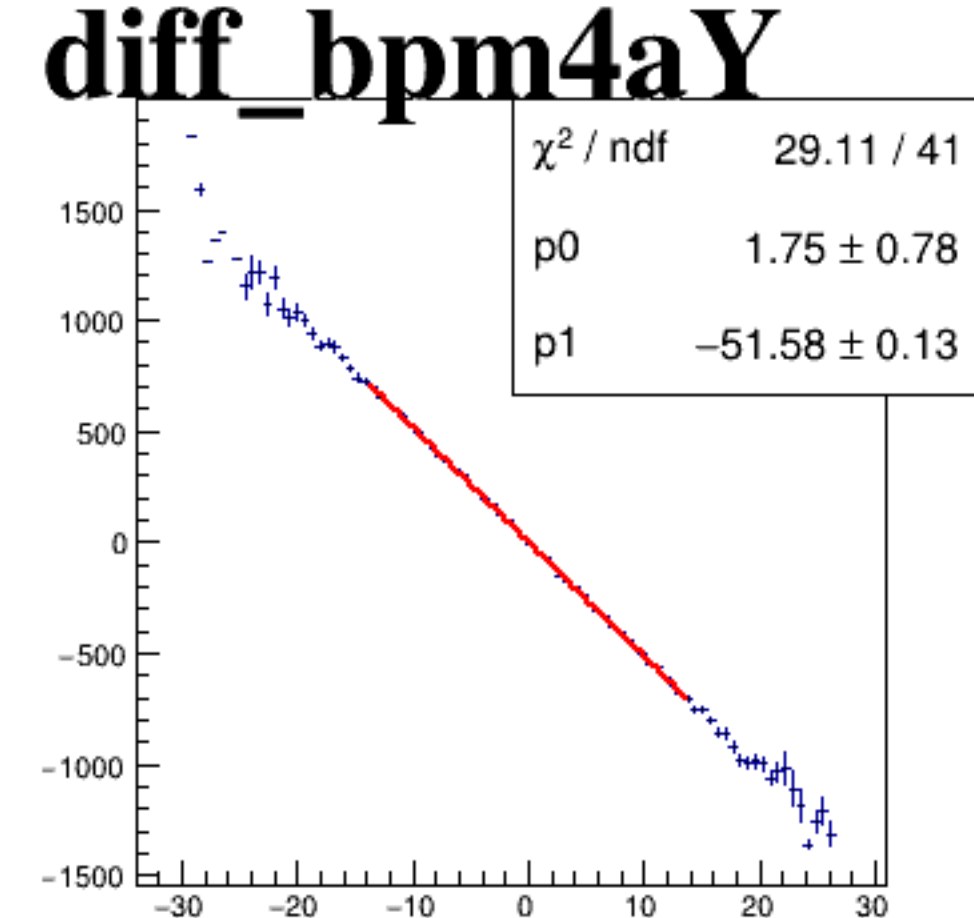
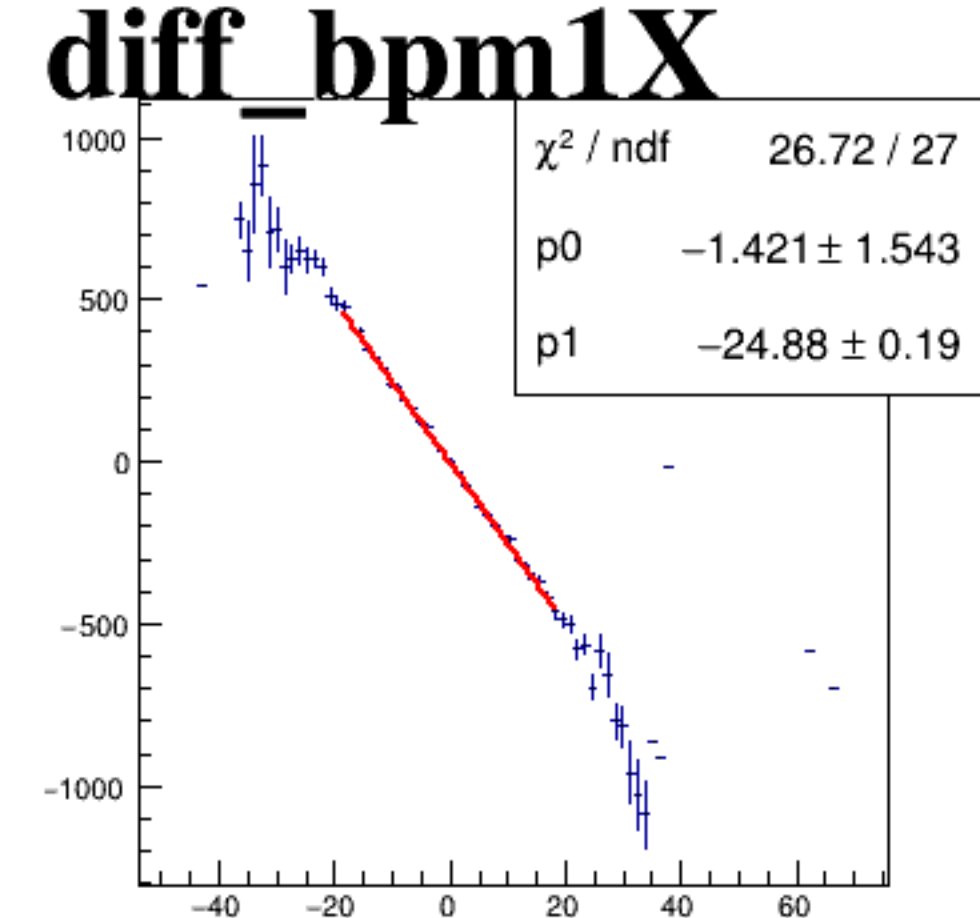
reg_asym_sam5



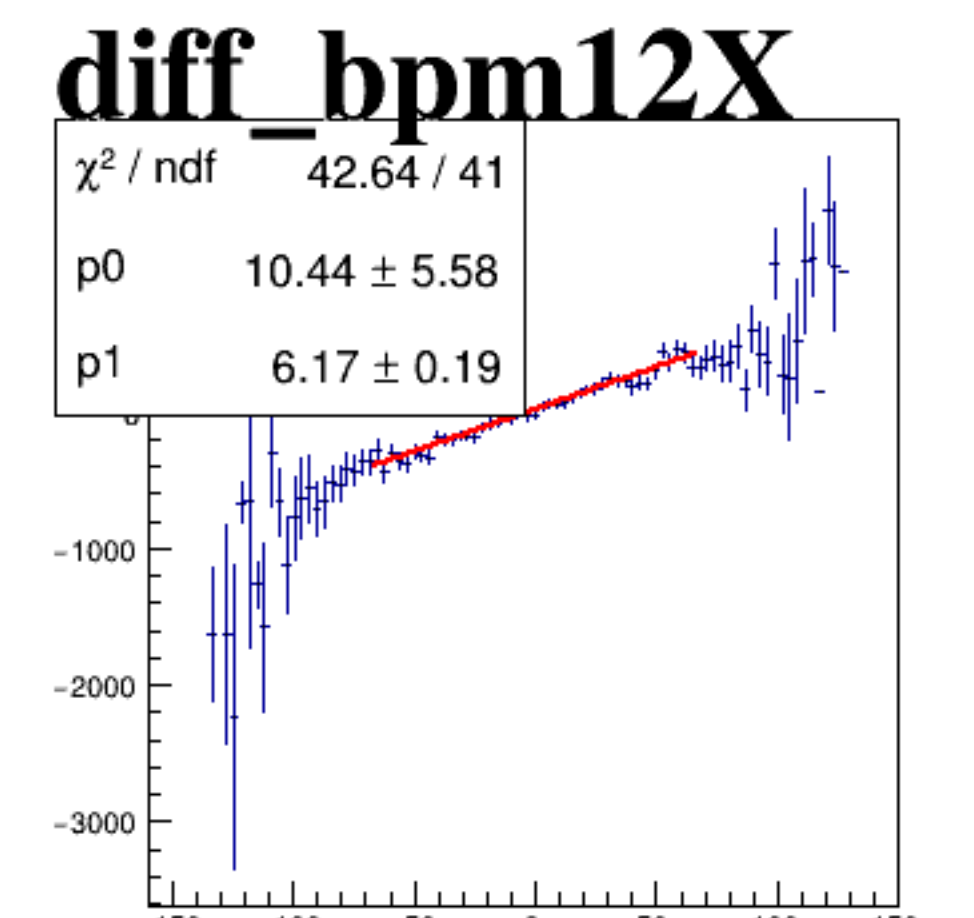
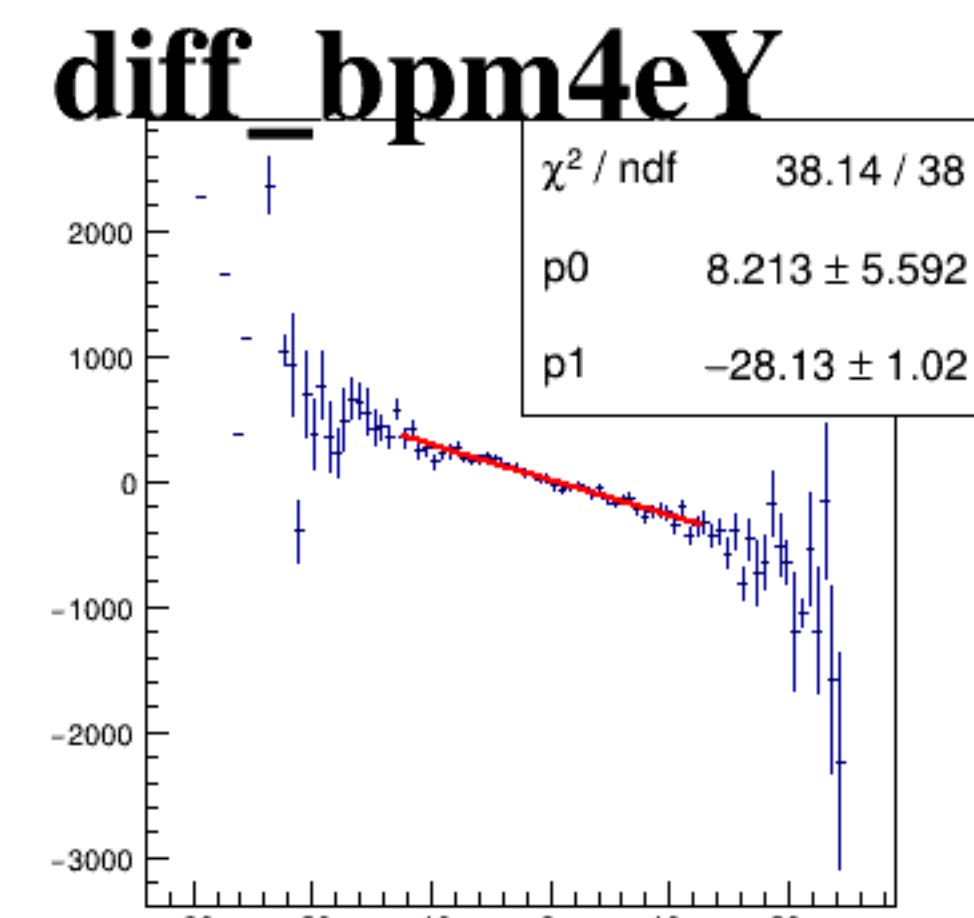
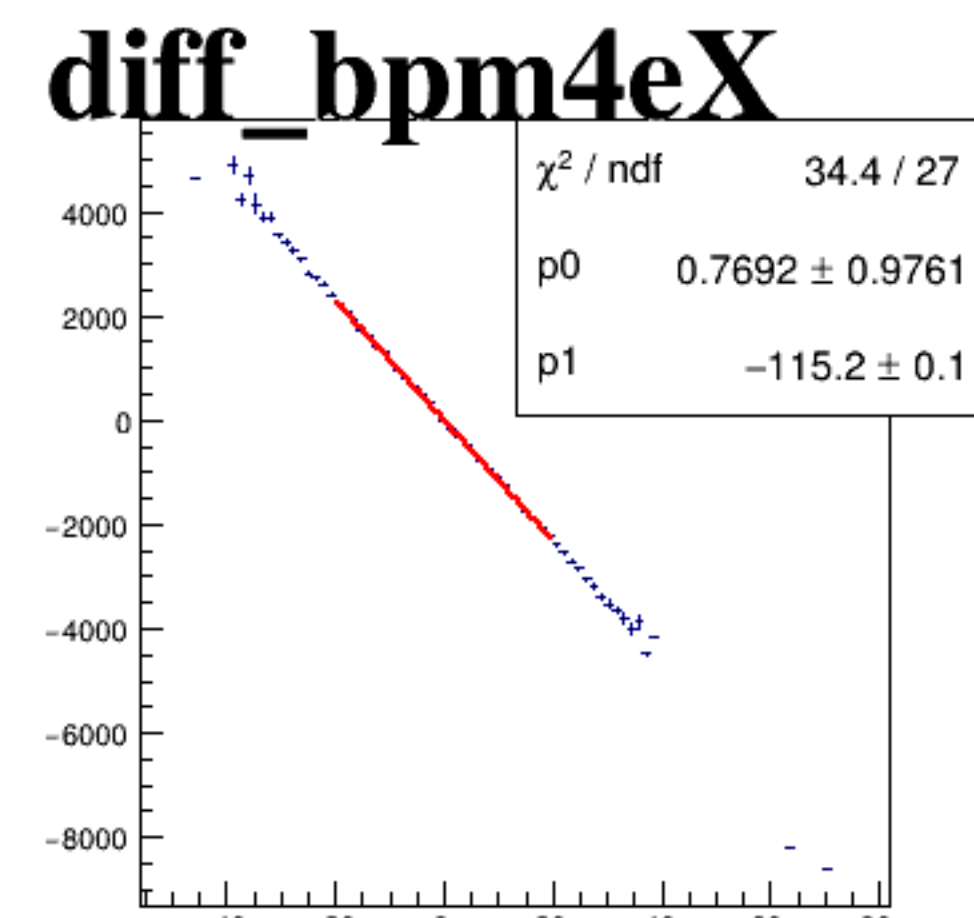
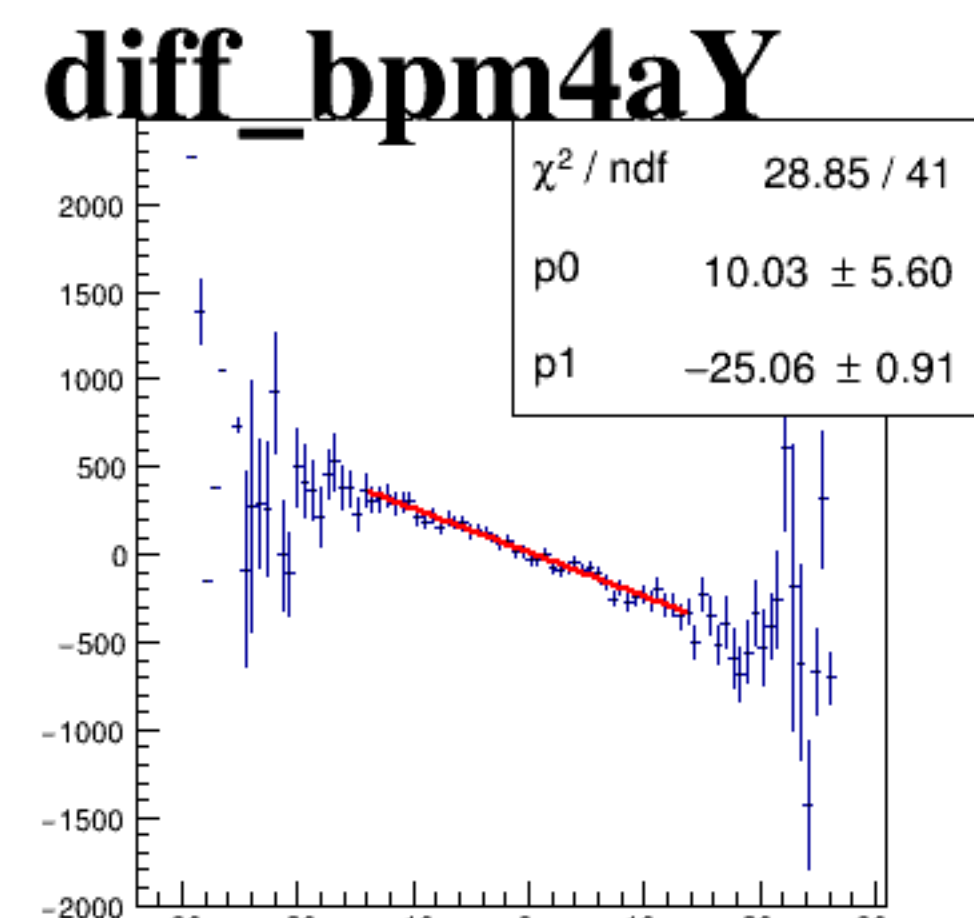
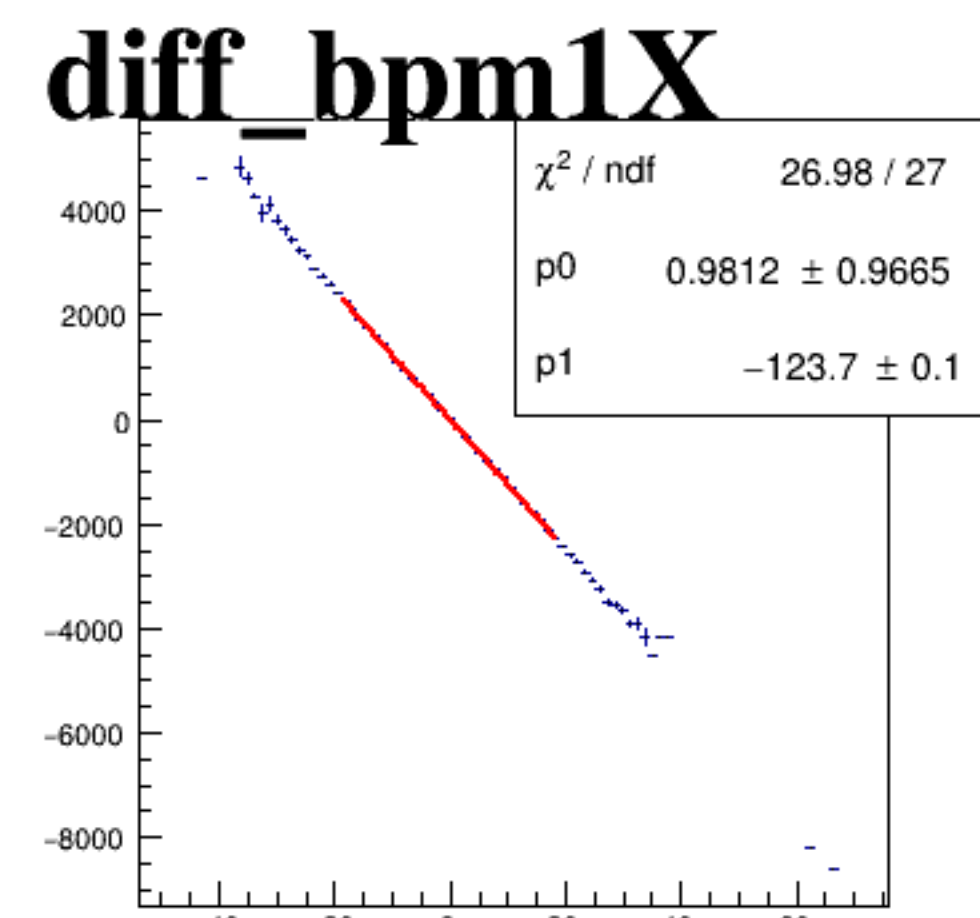
reg_asym_sam7



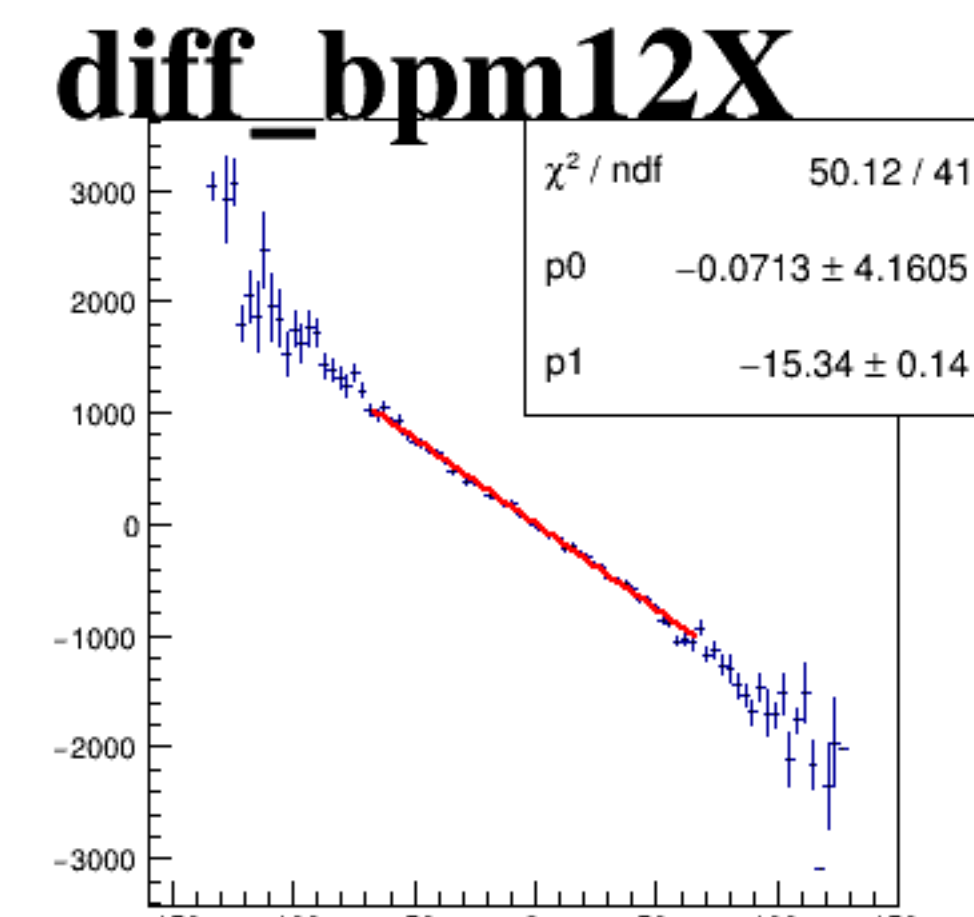
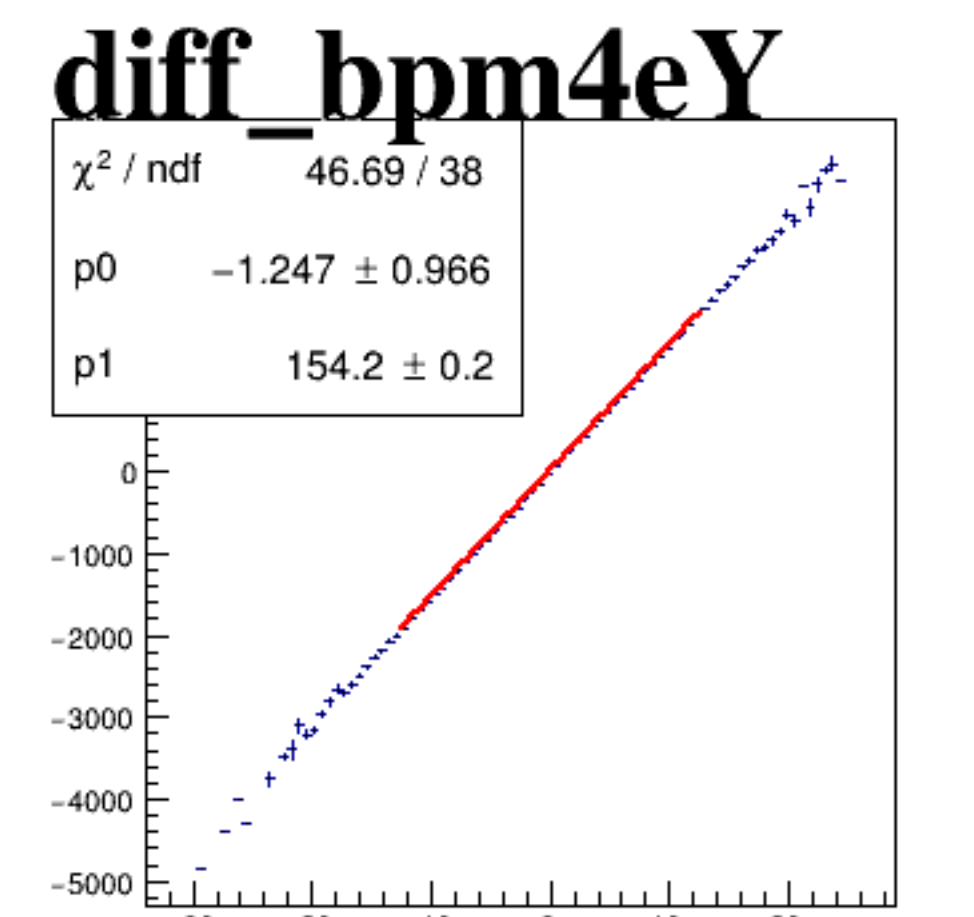
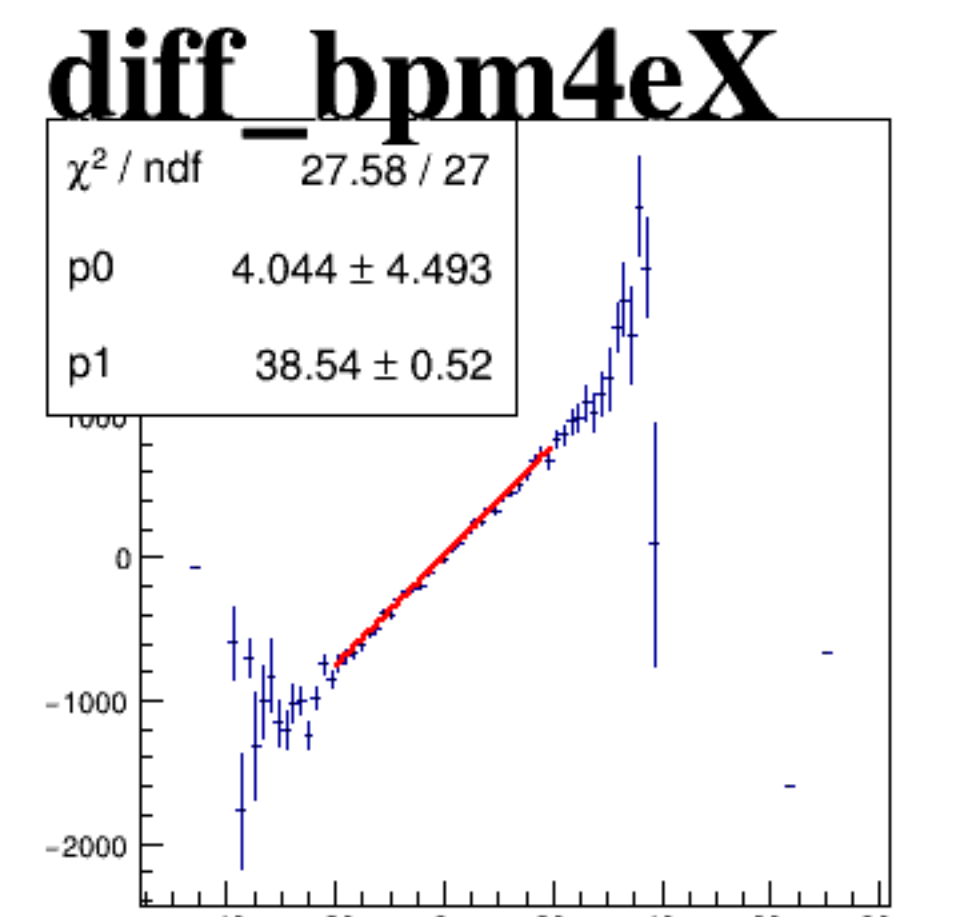
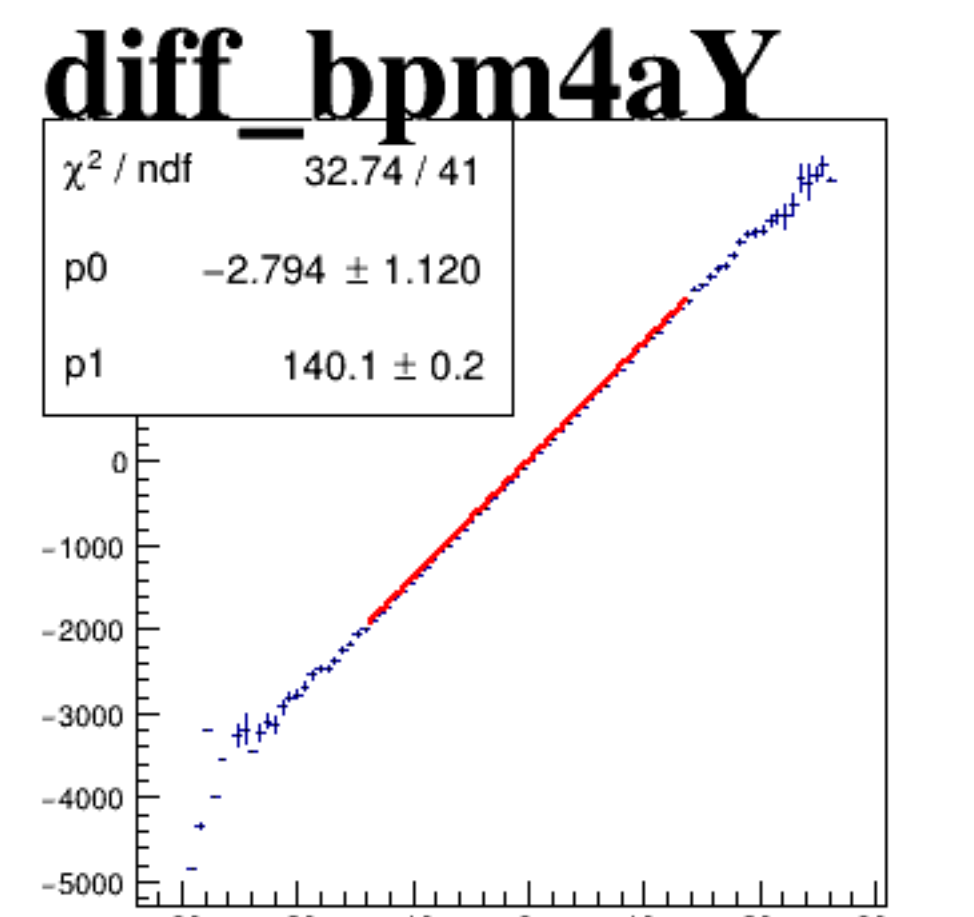
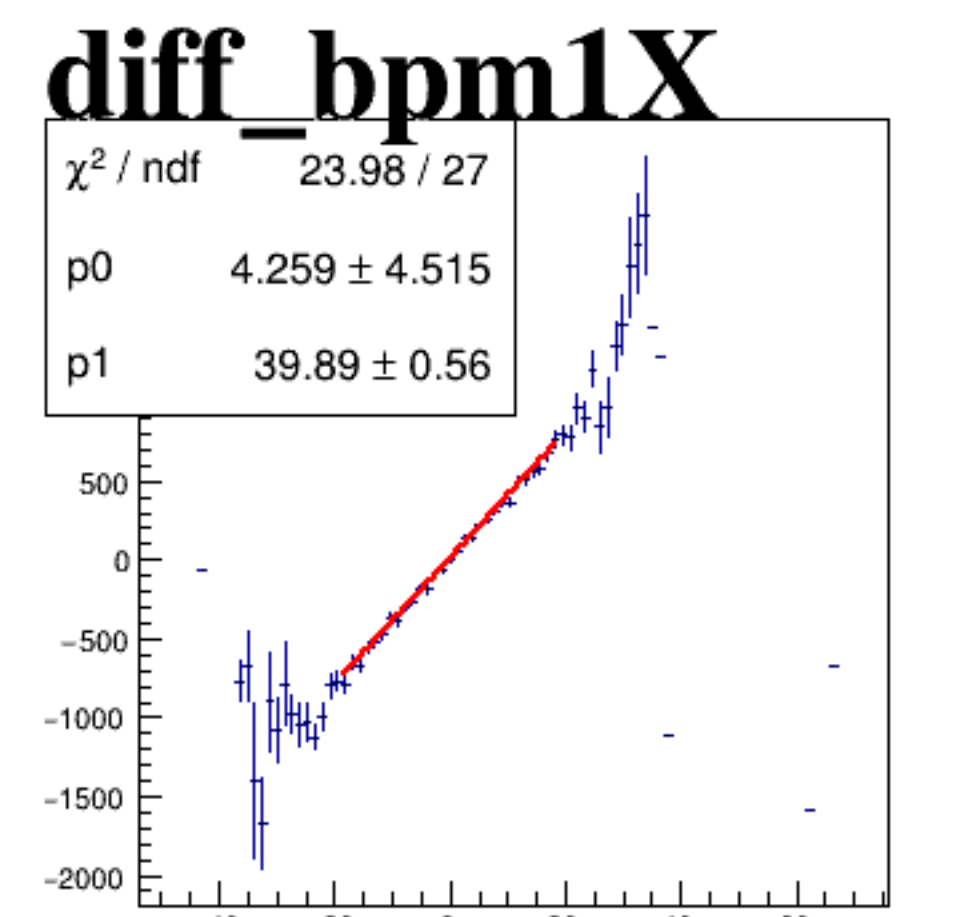
asym_sam1



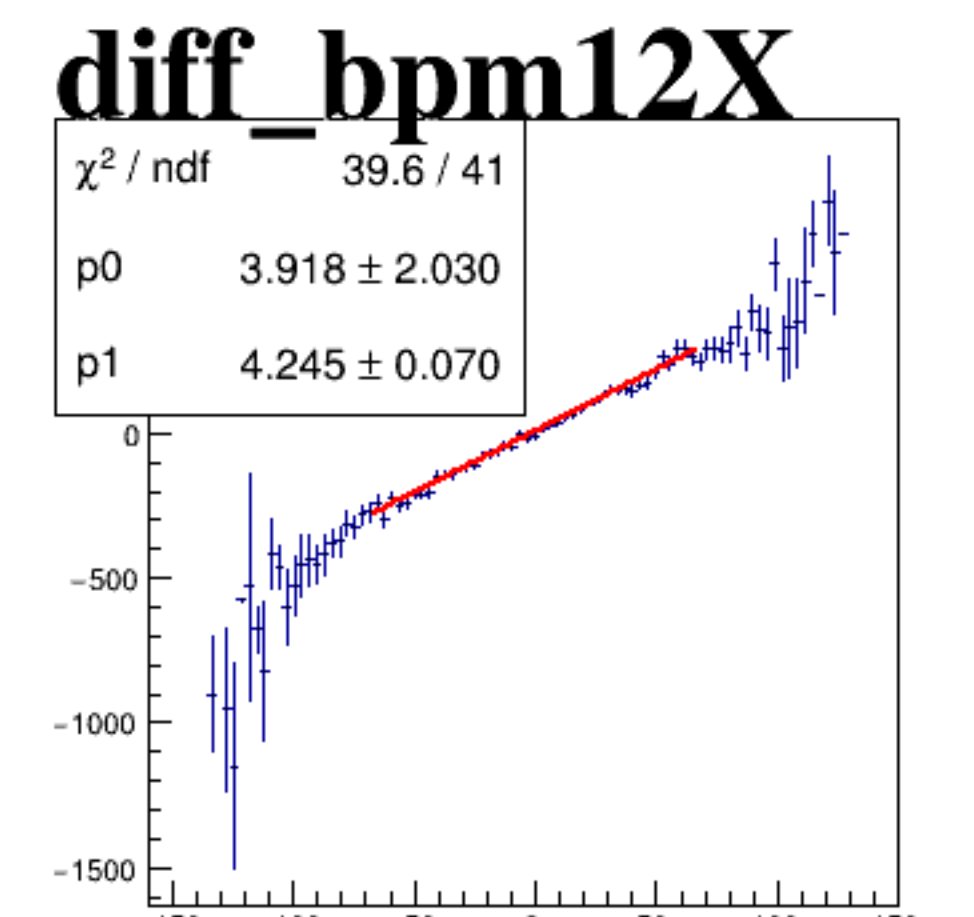
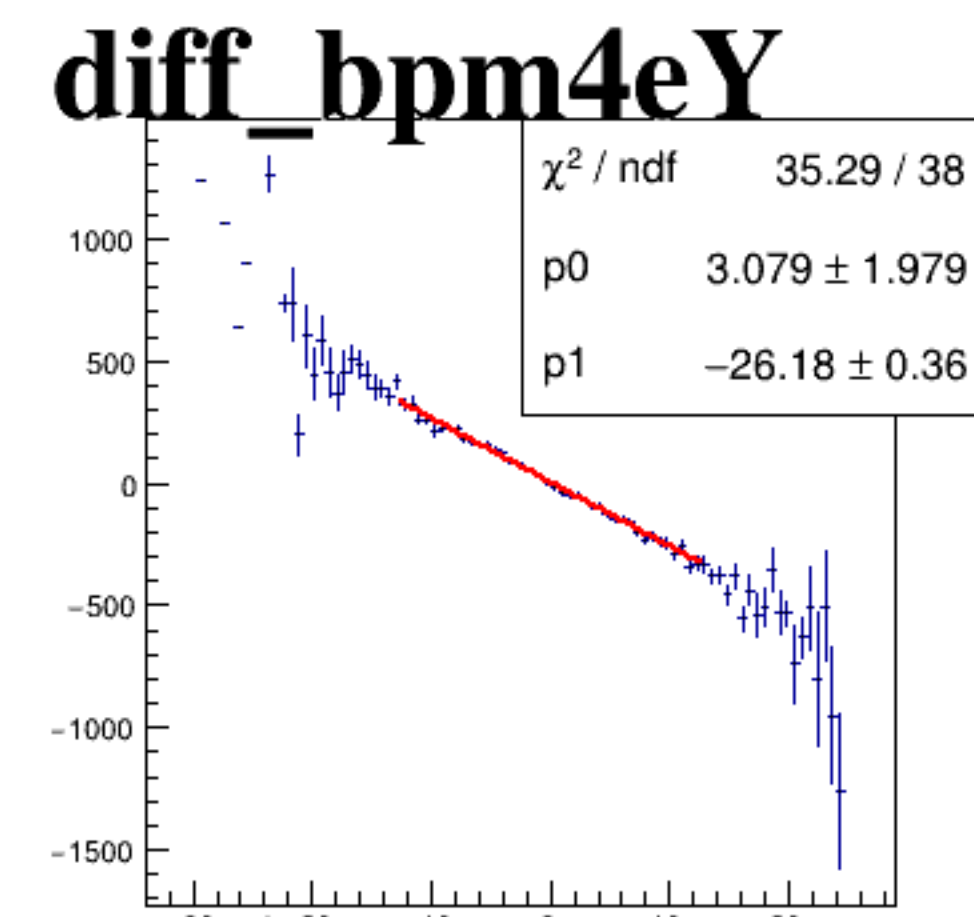
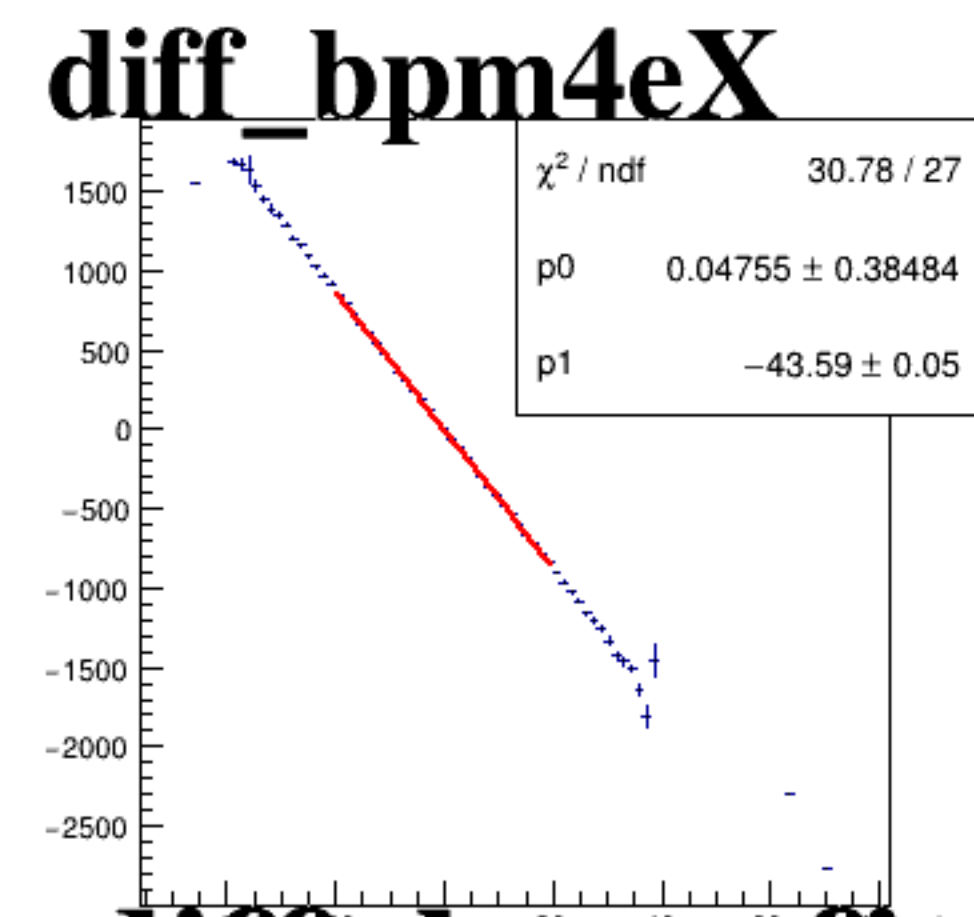
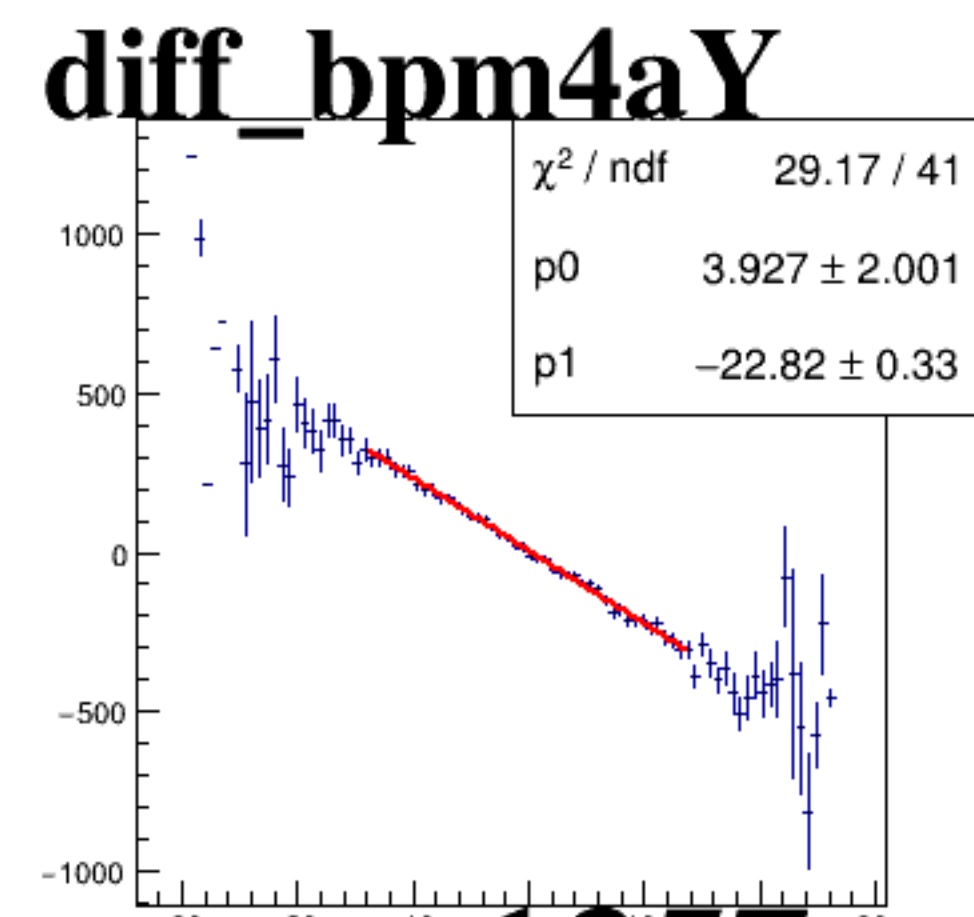
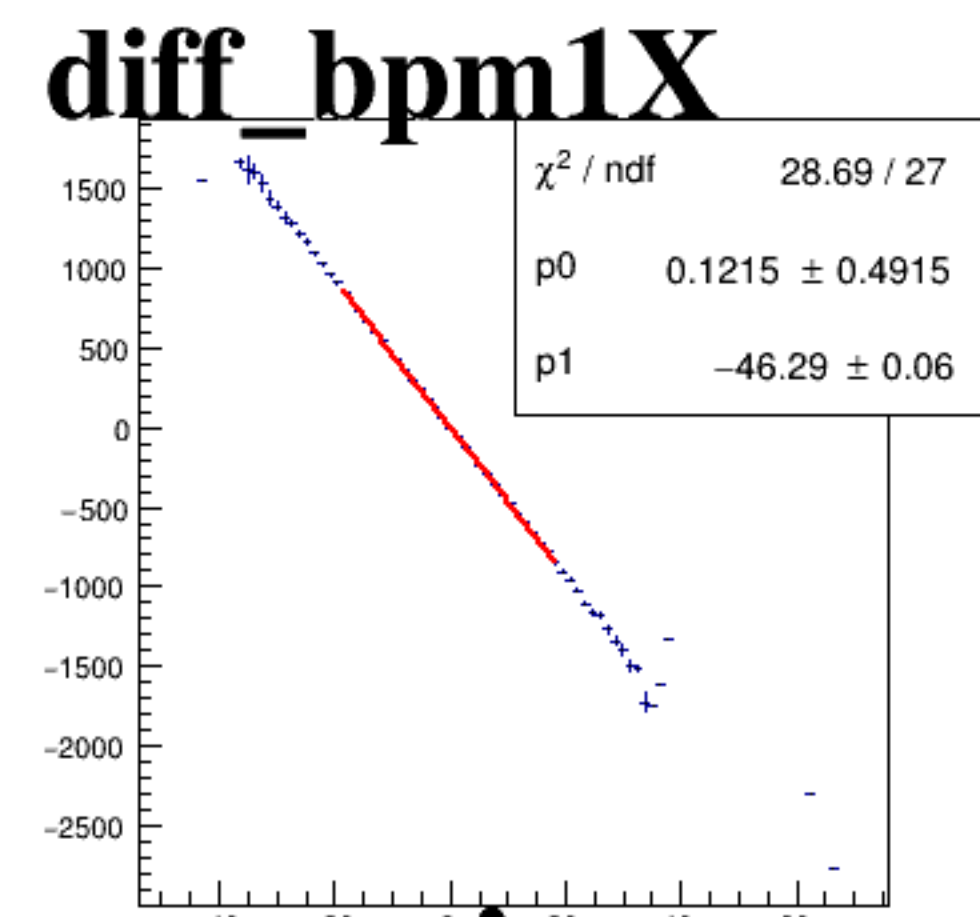
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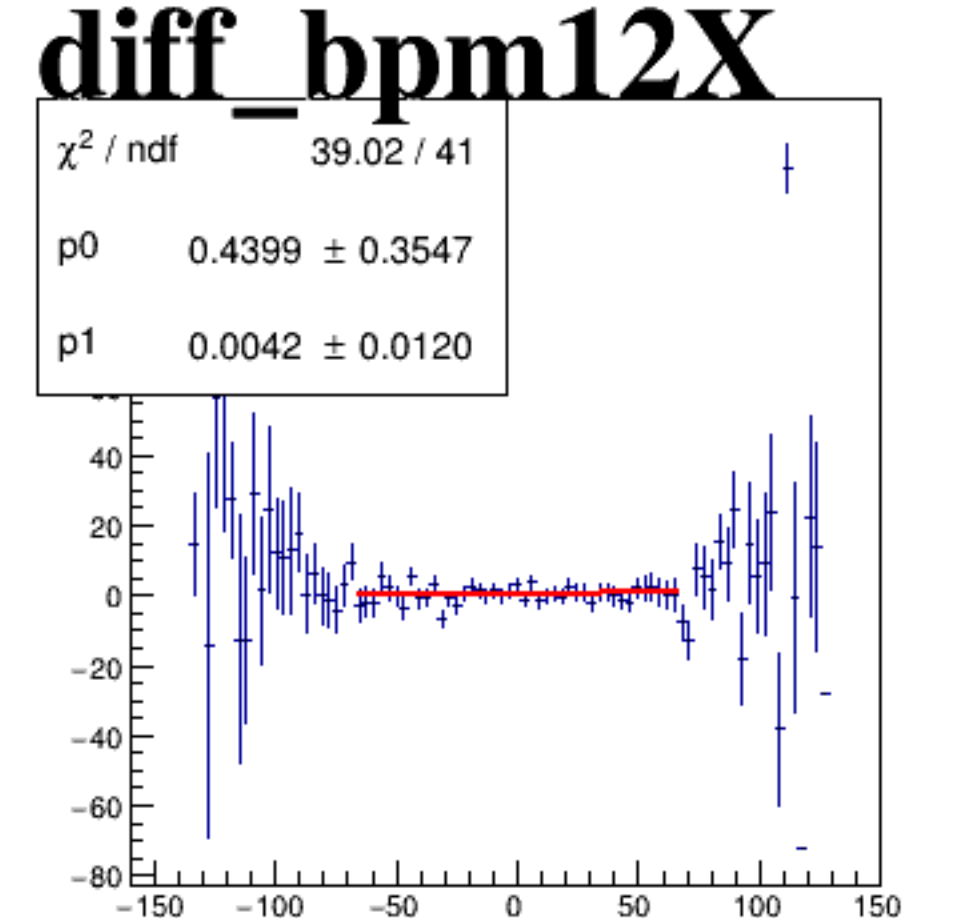
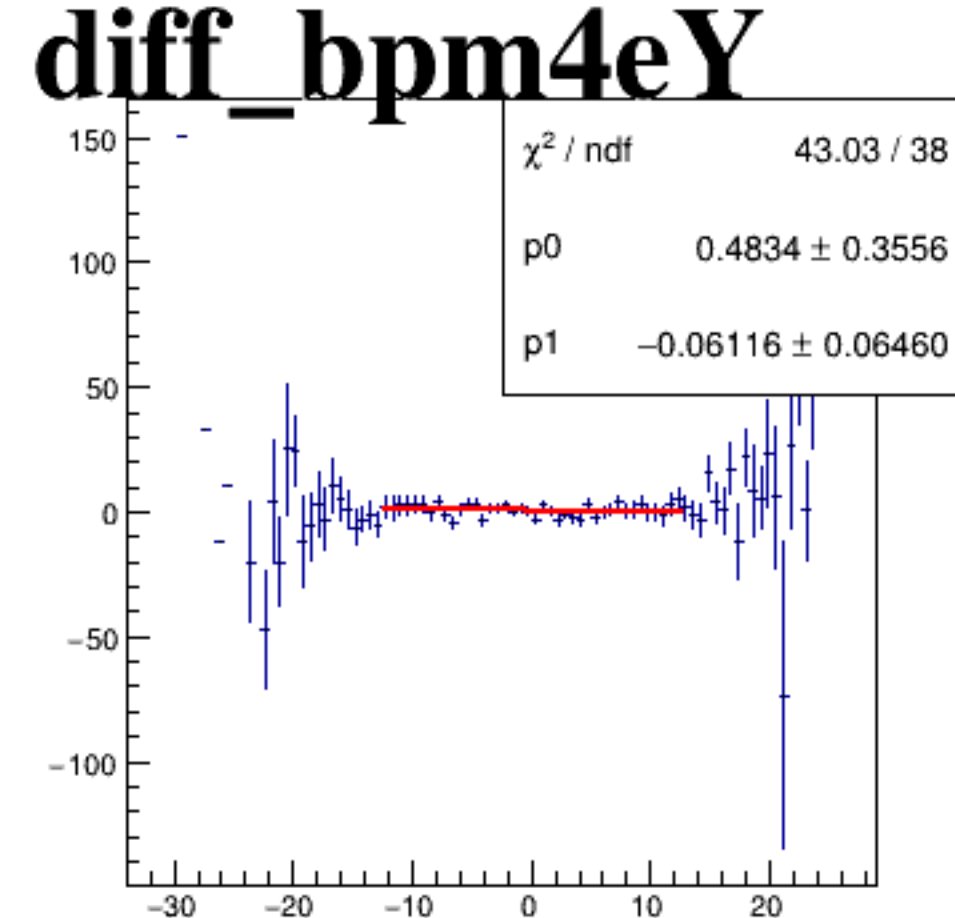
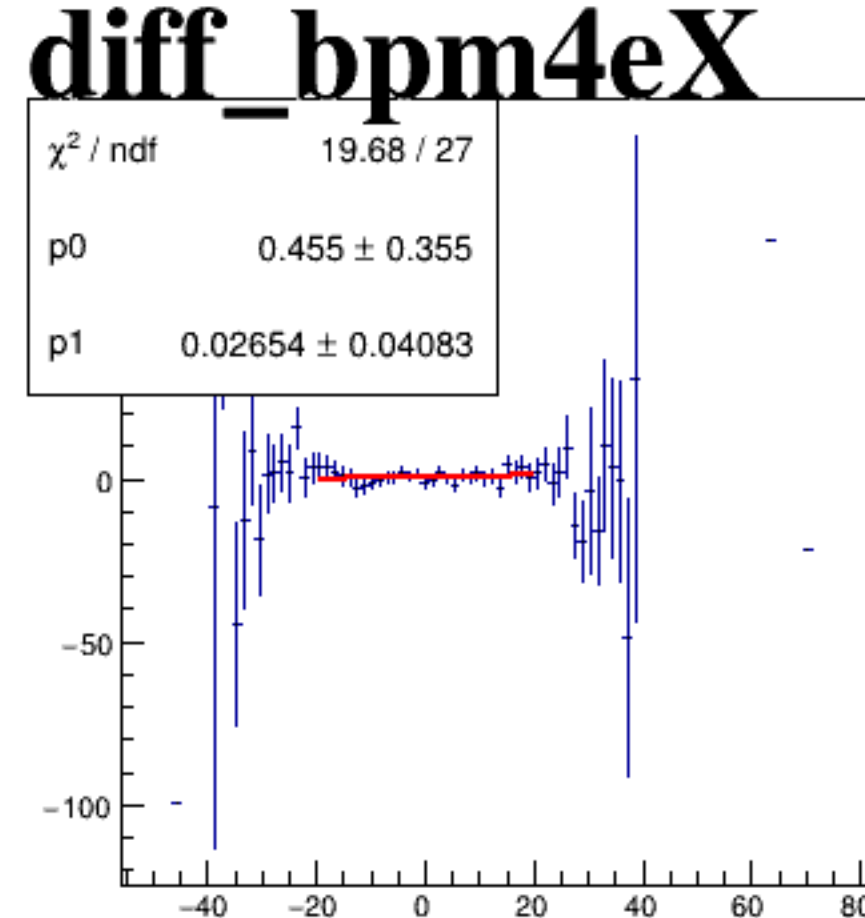
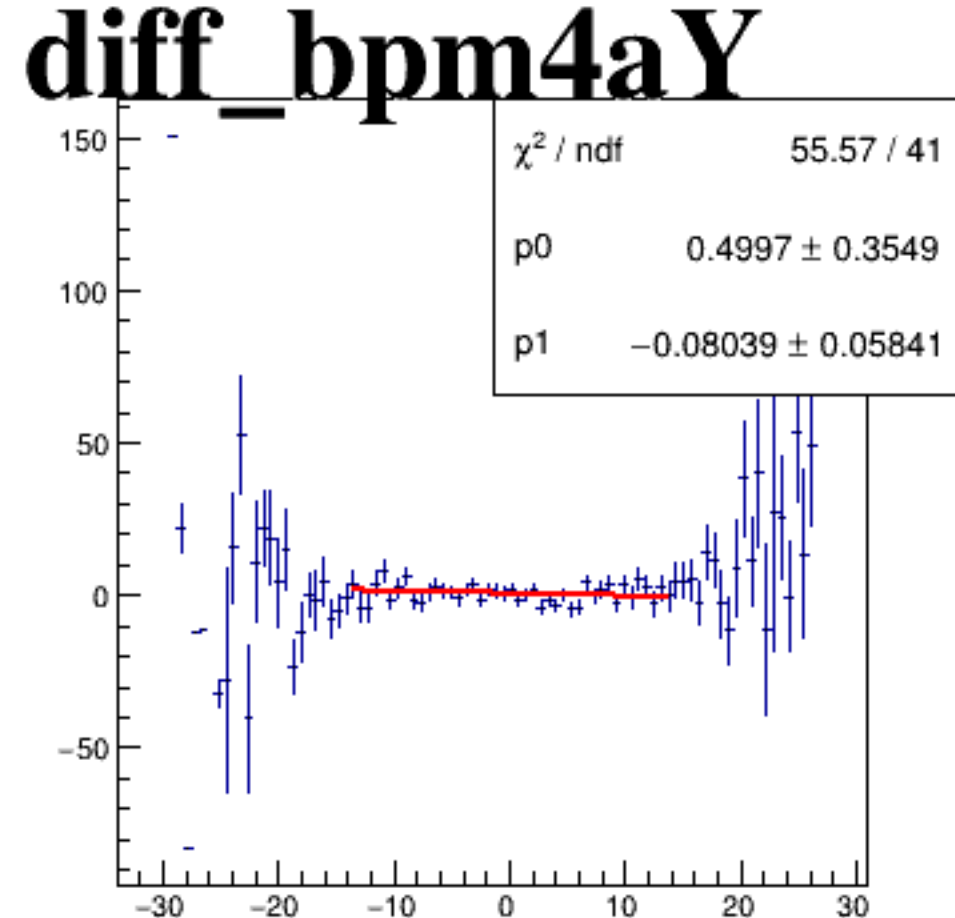
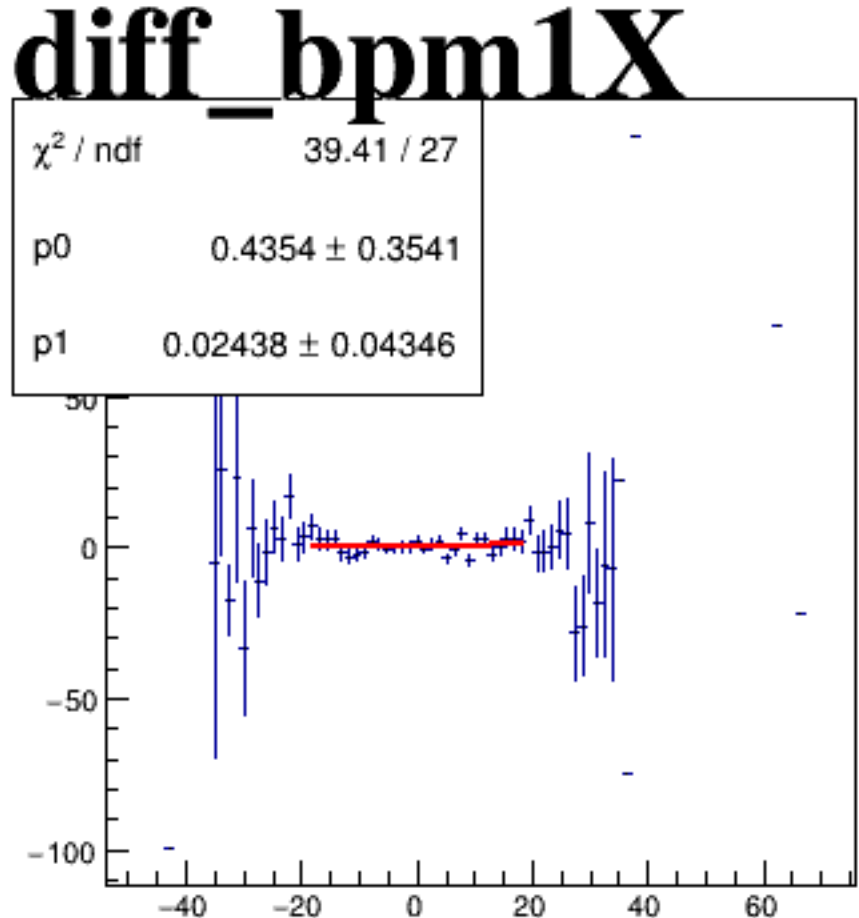
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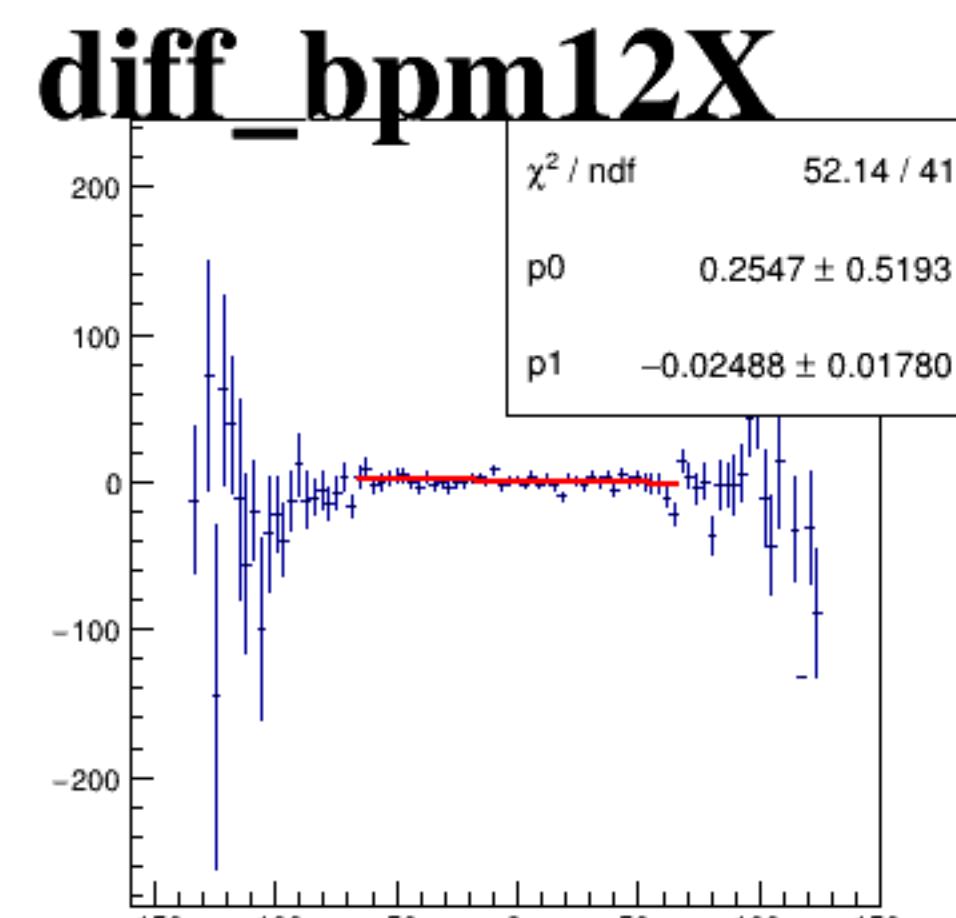
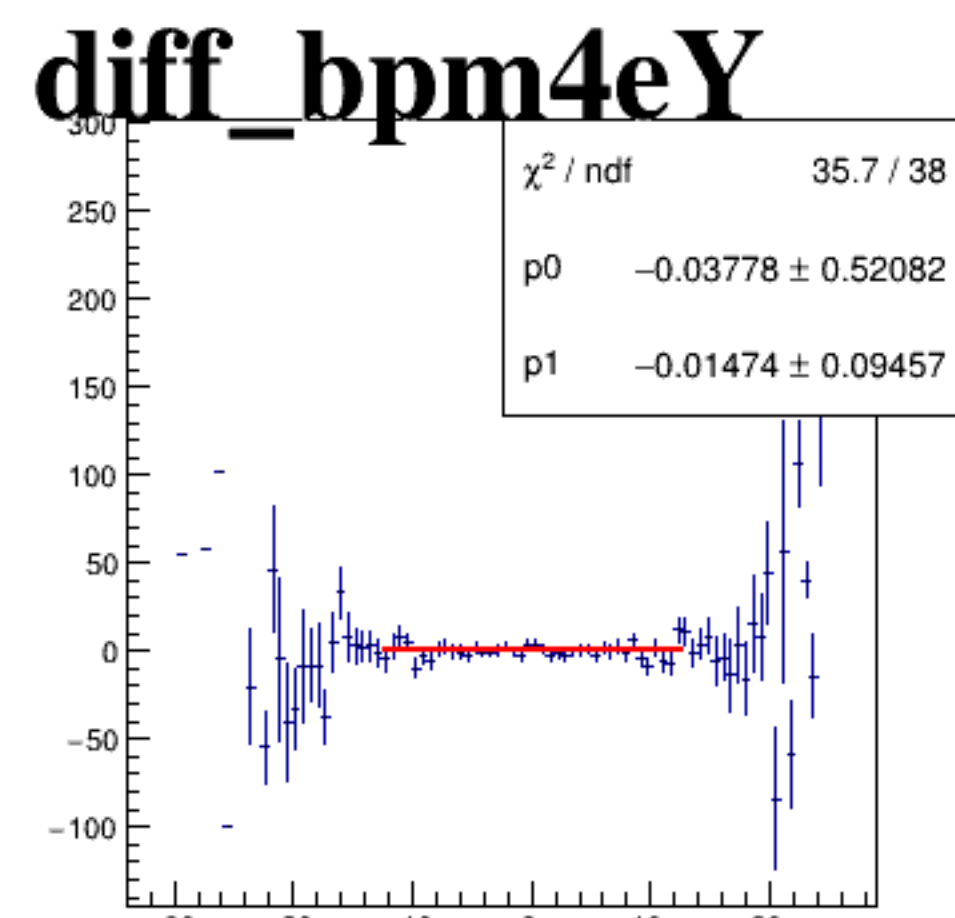
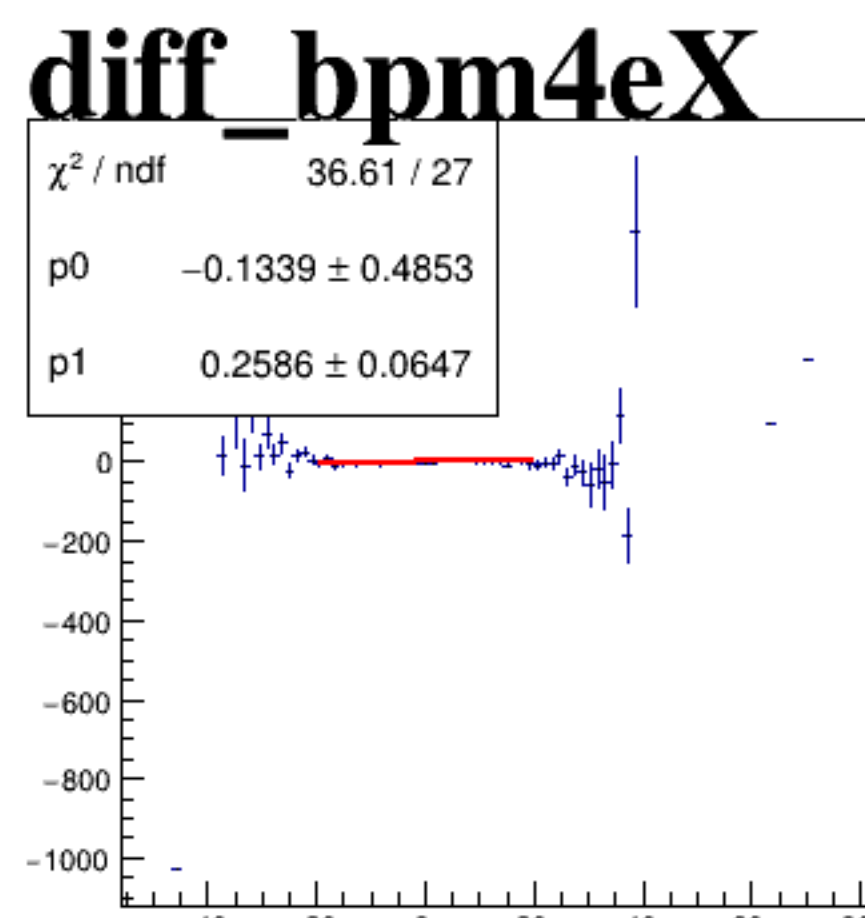
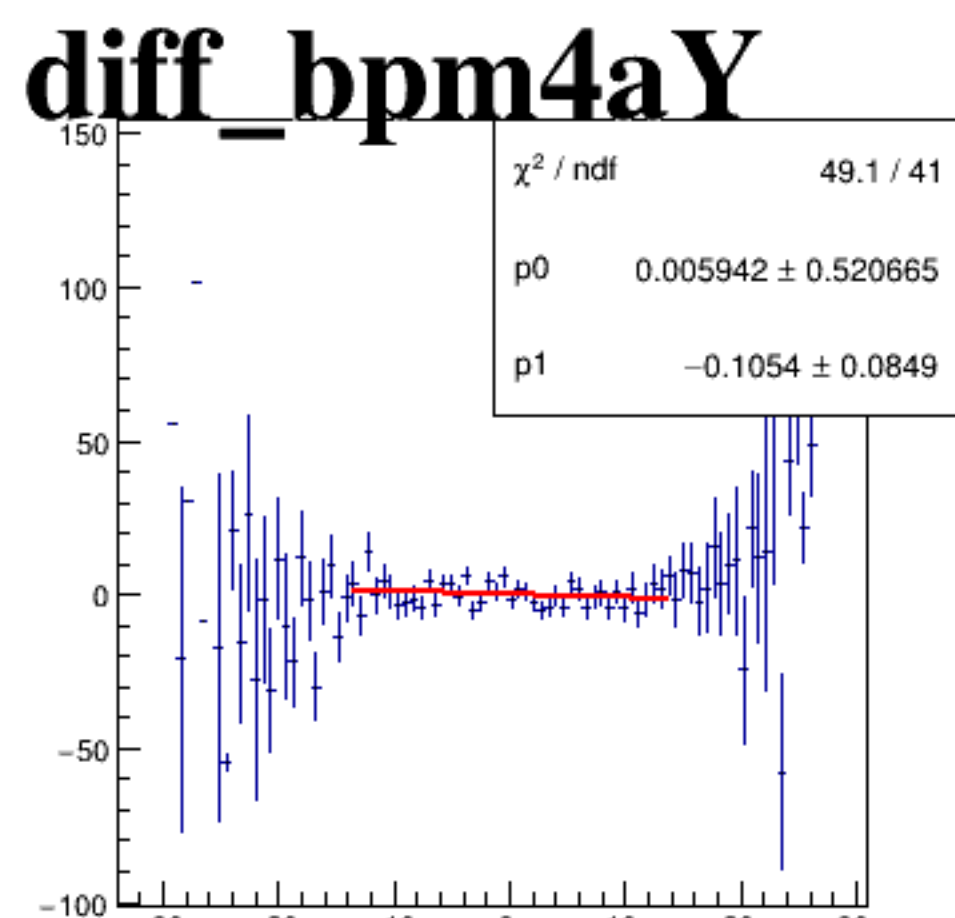
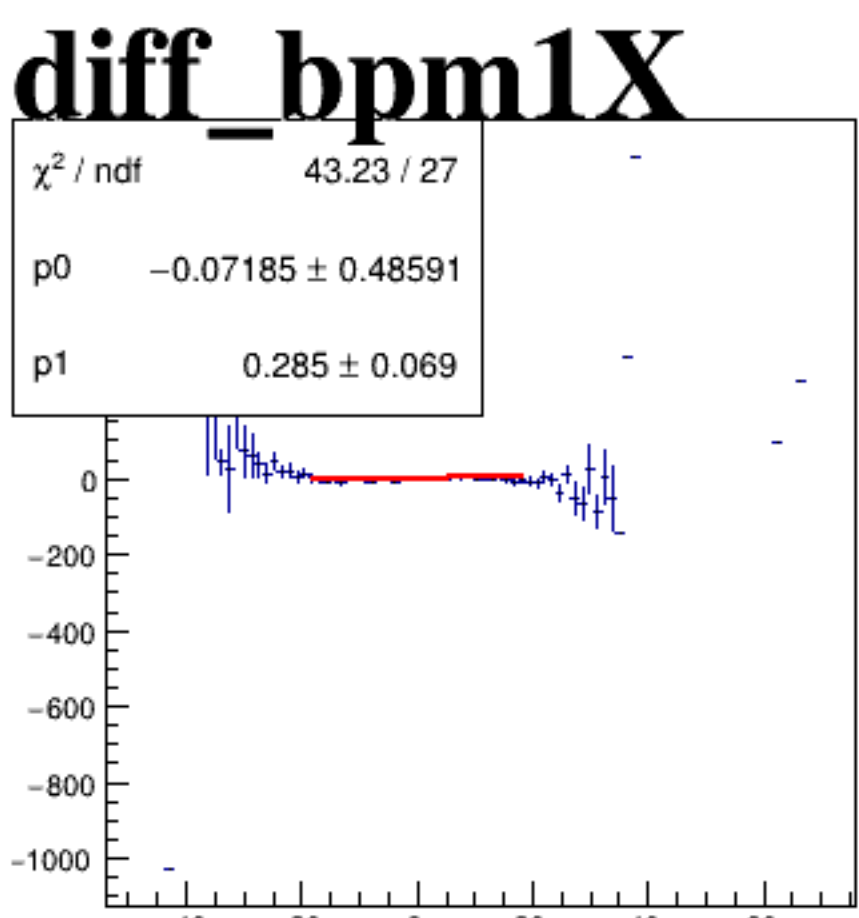
asym_sam7



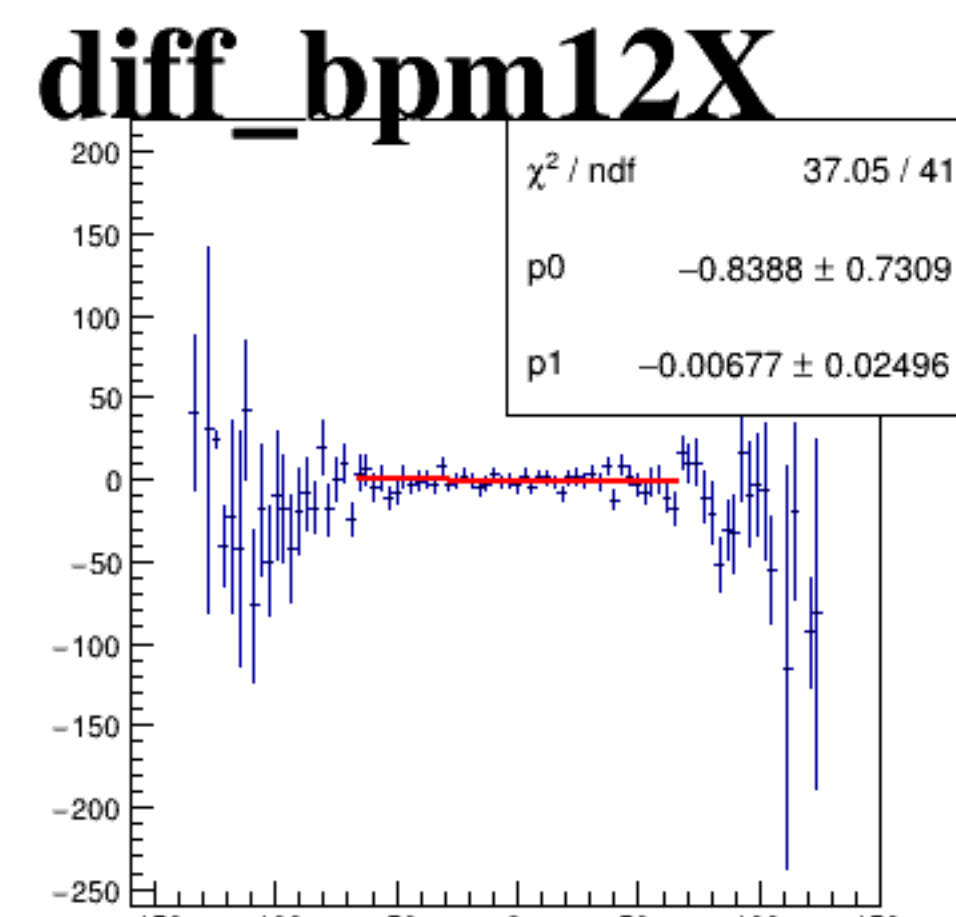
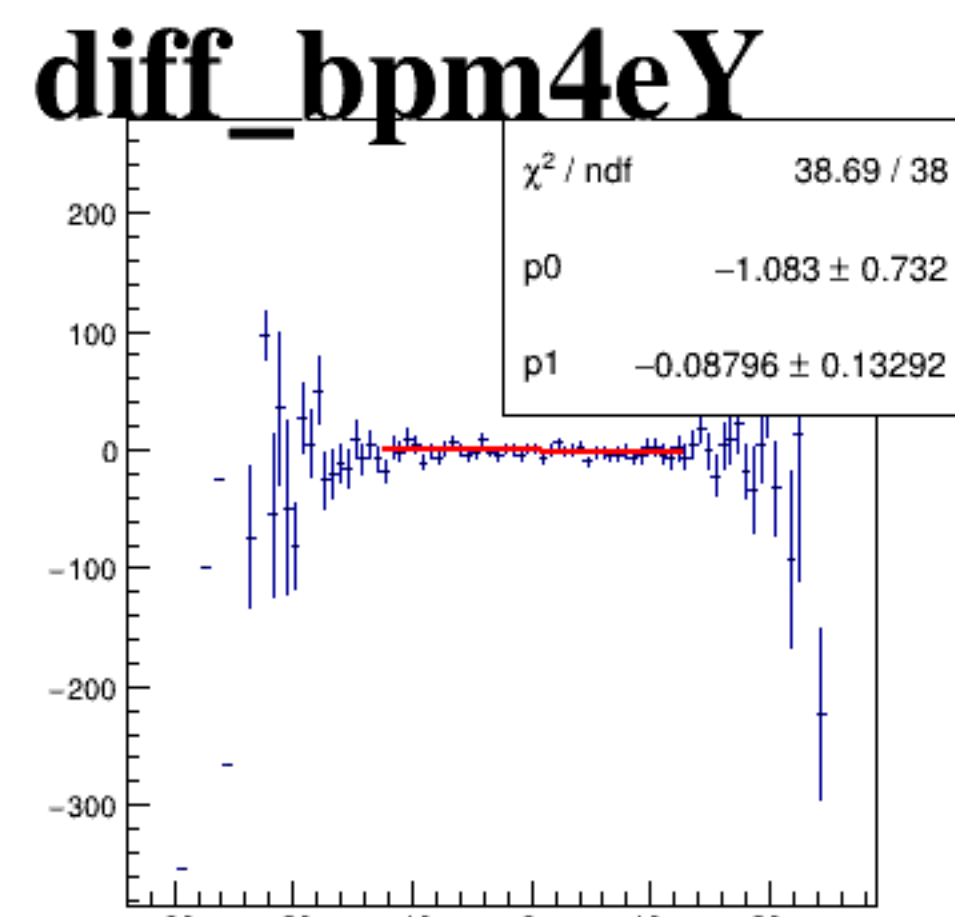
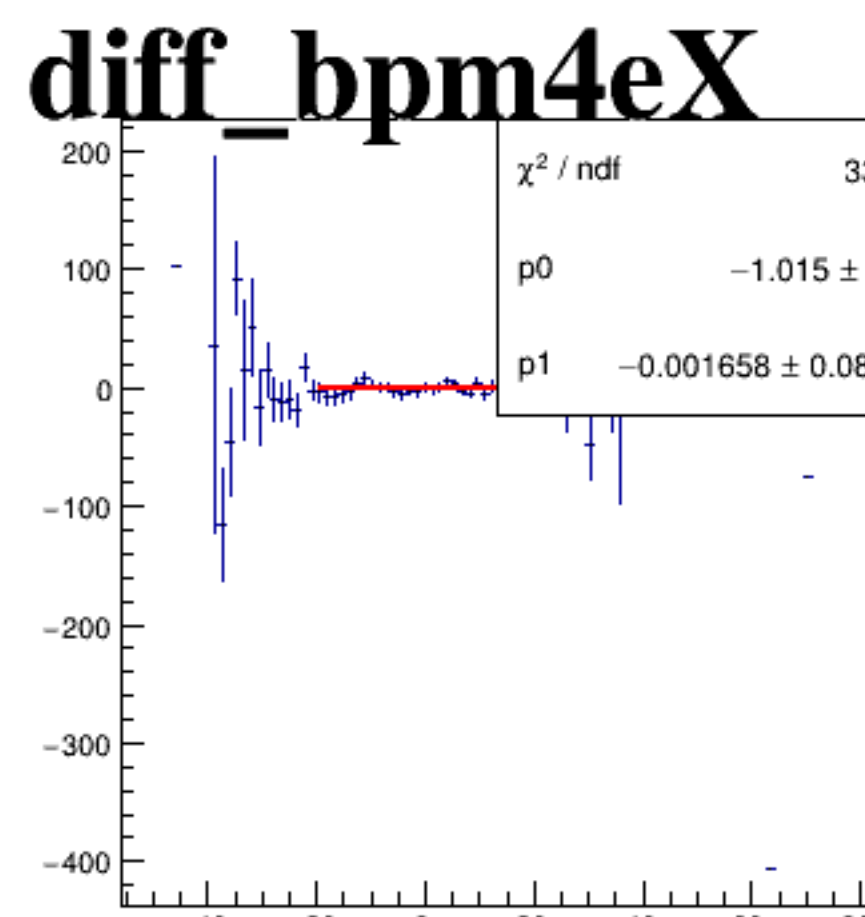
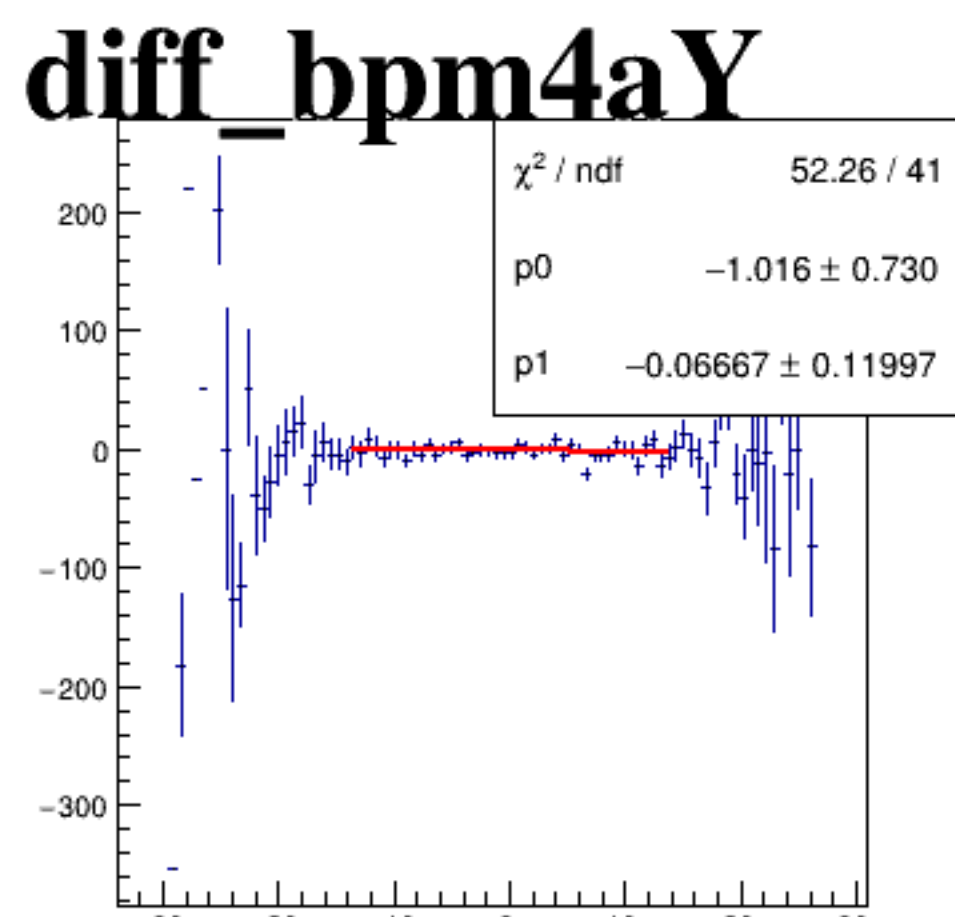
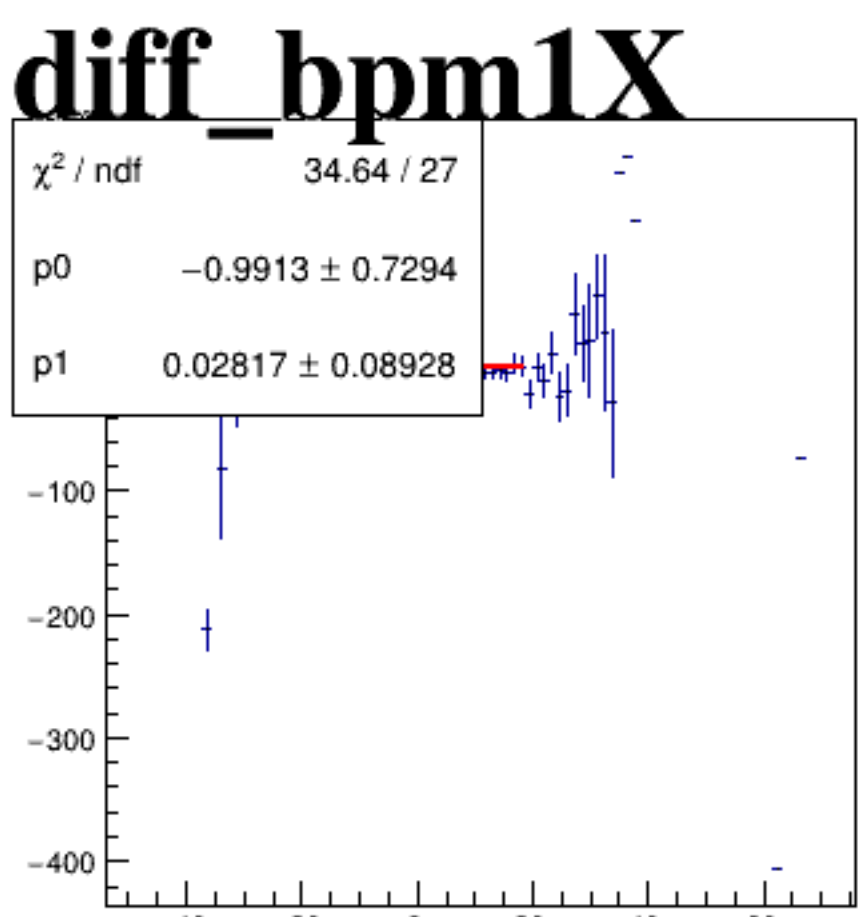
reg_asym_sam1



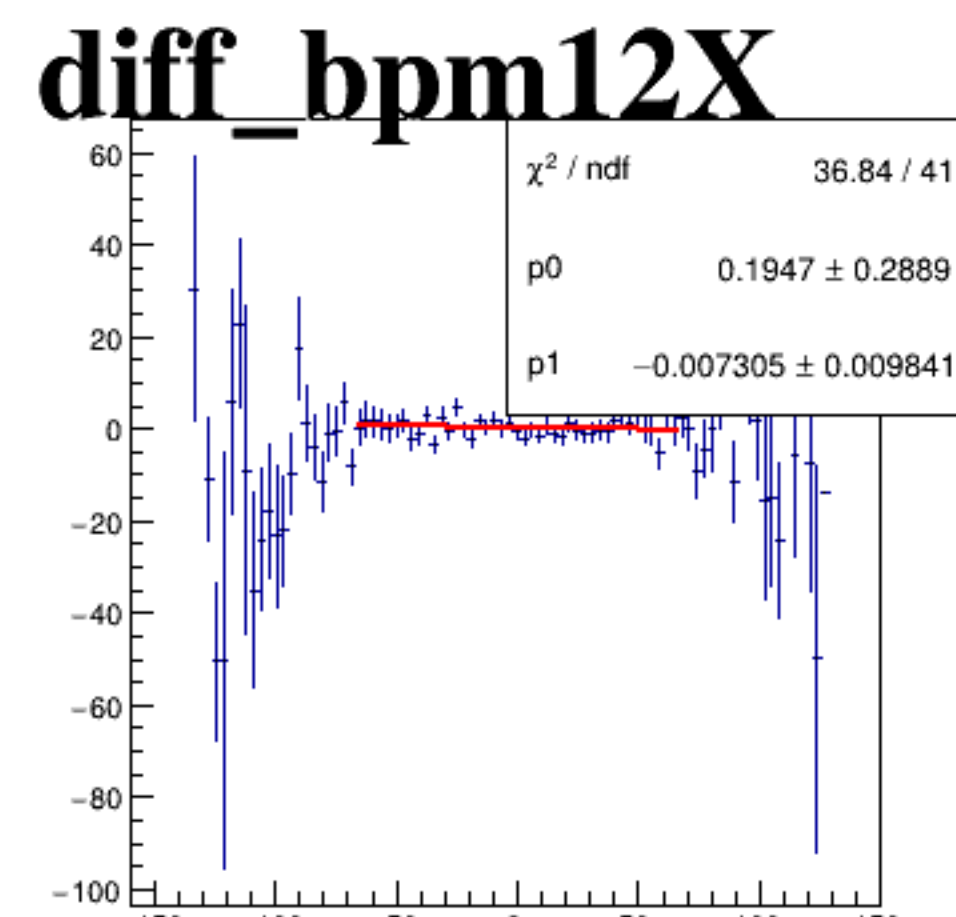
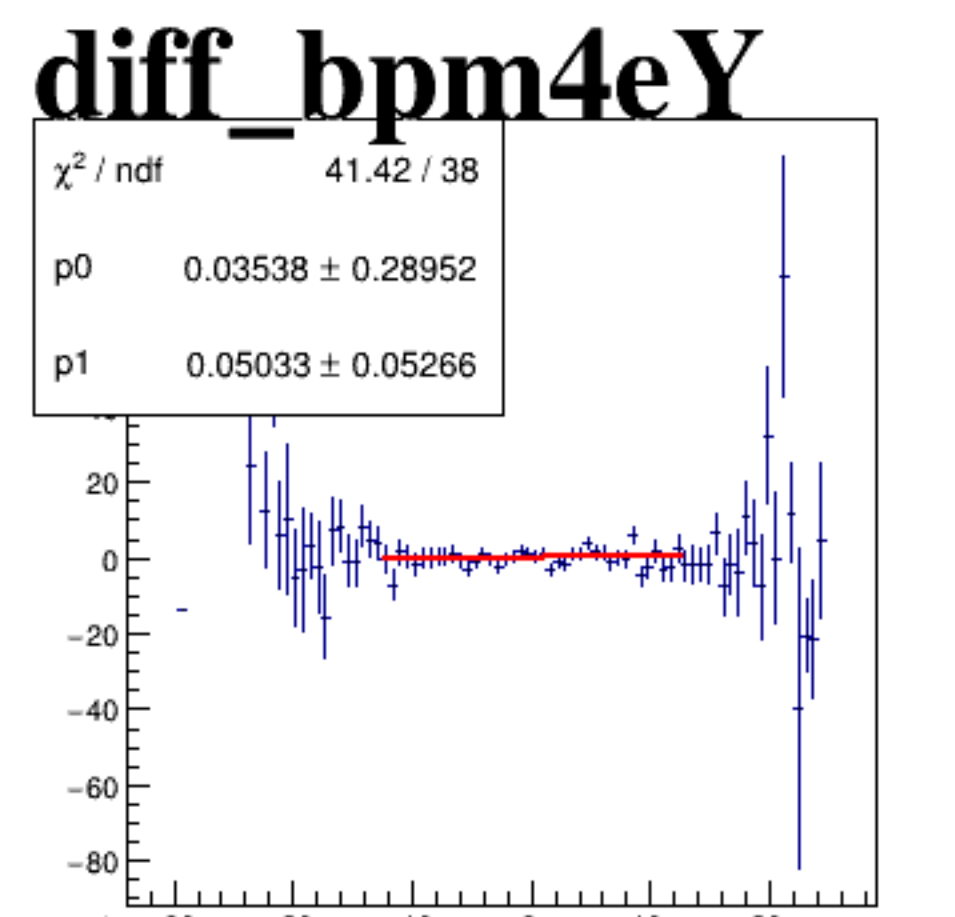
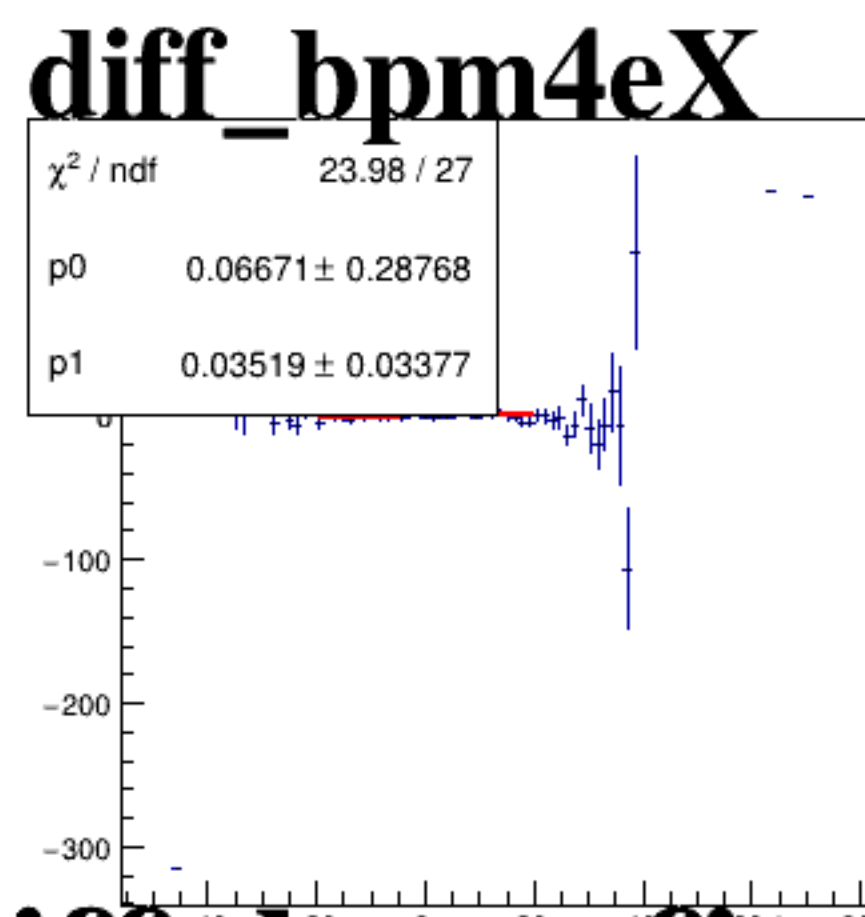
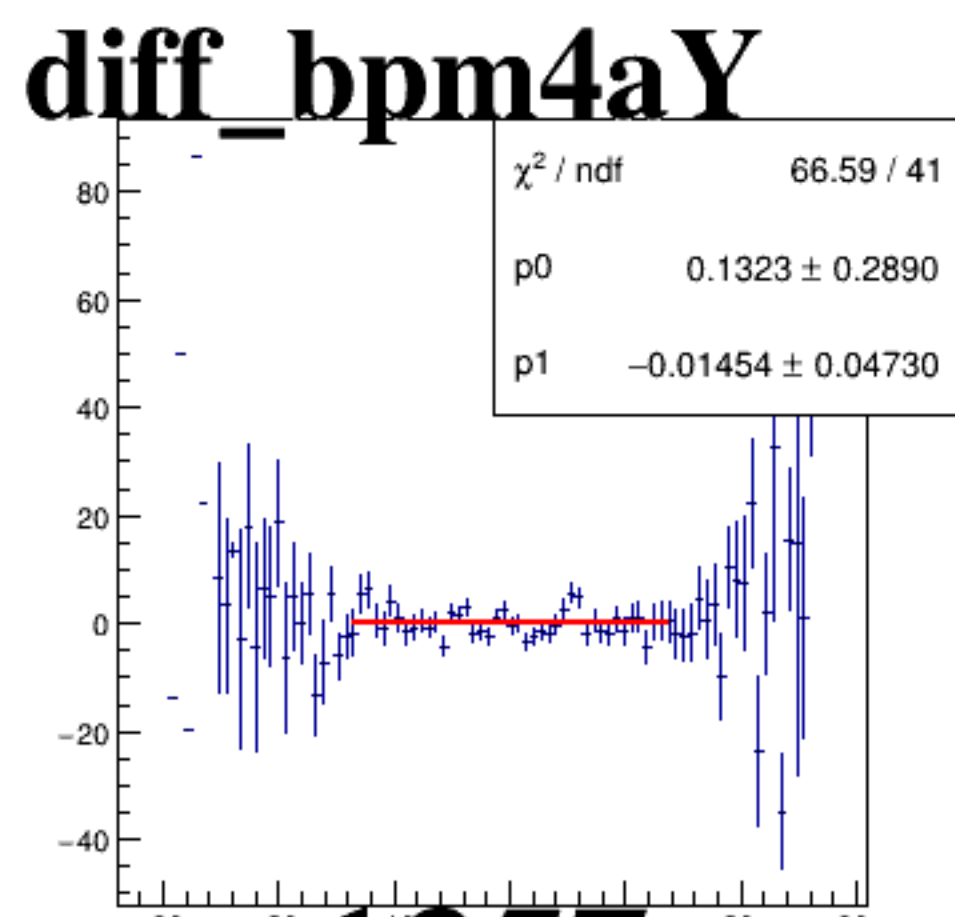
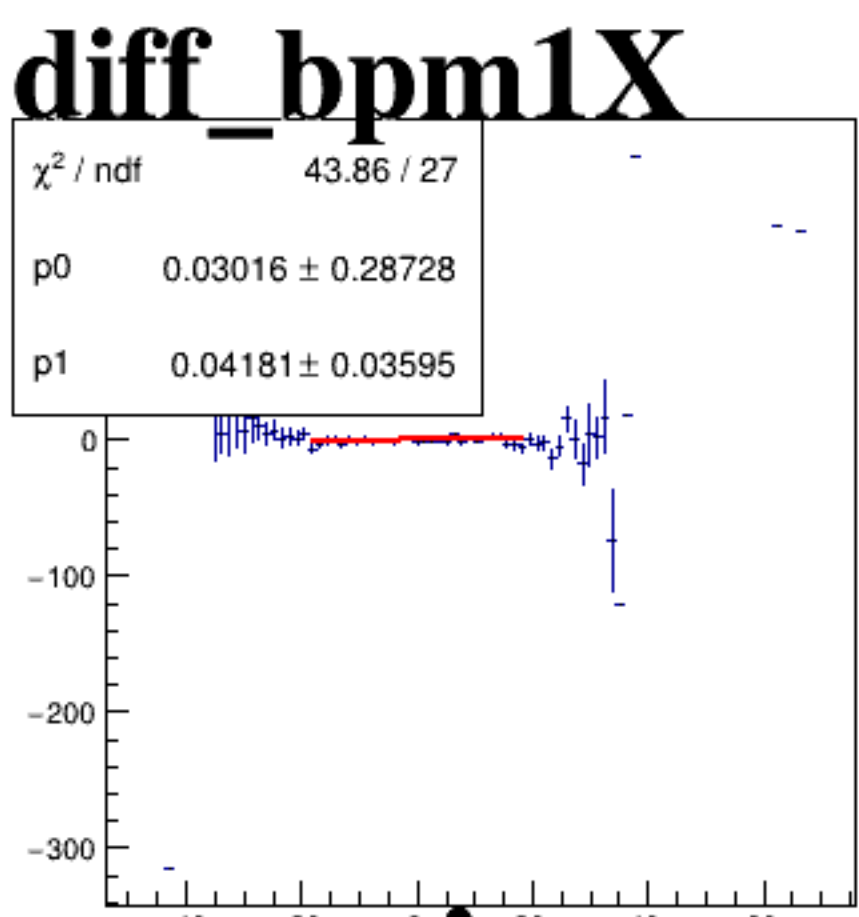
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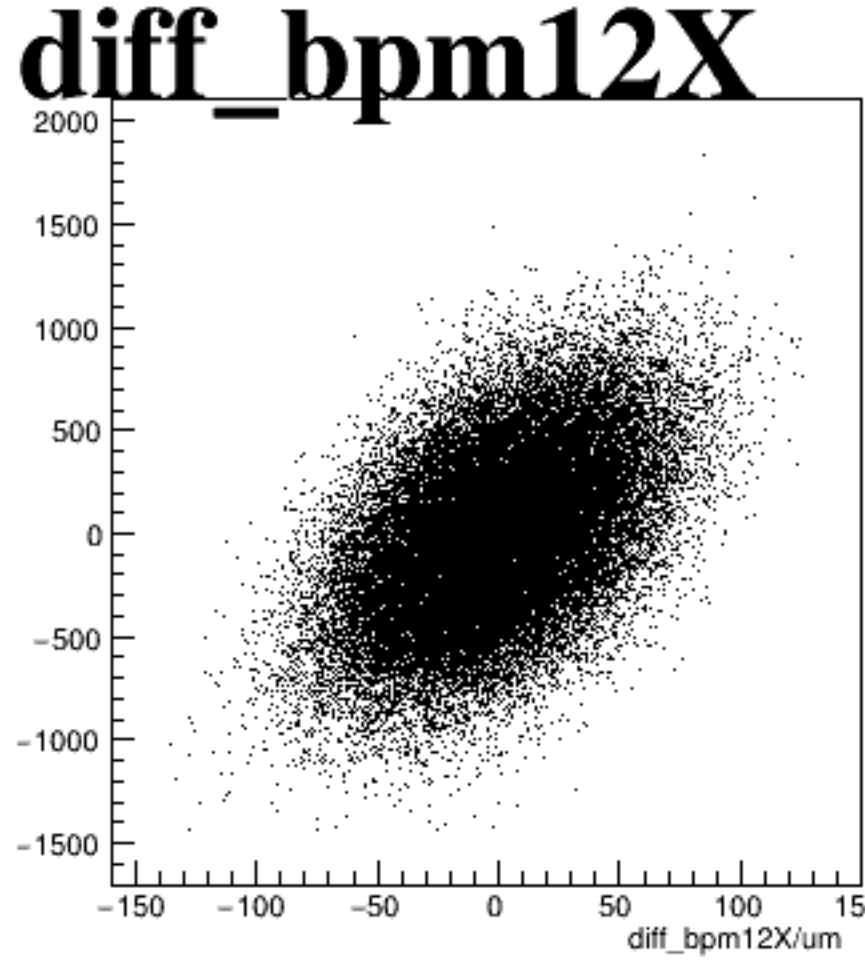
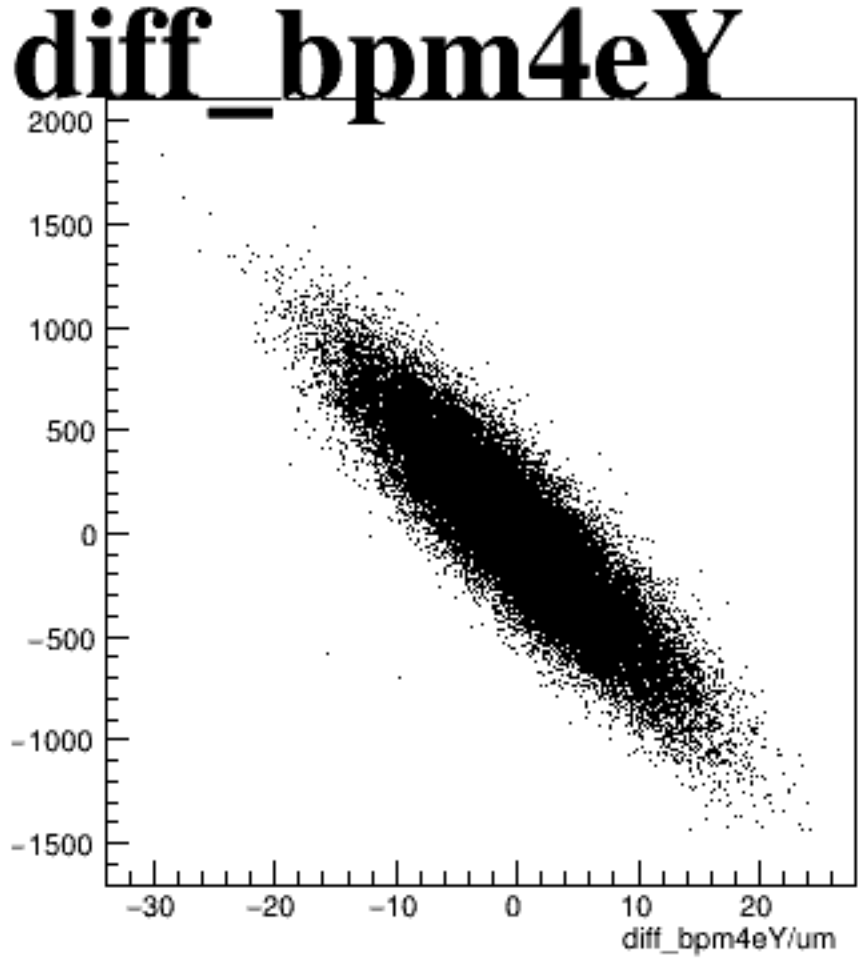
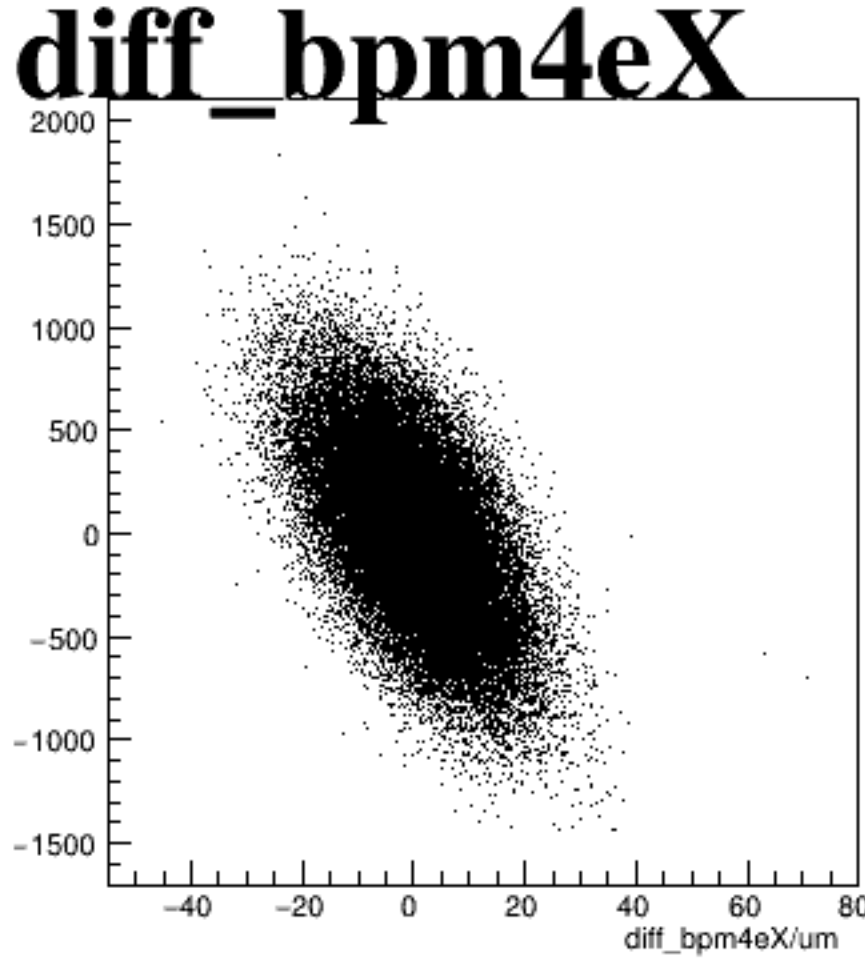
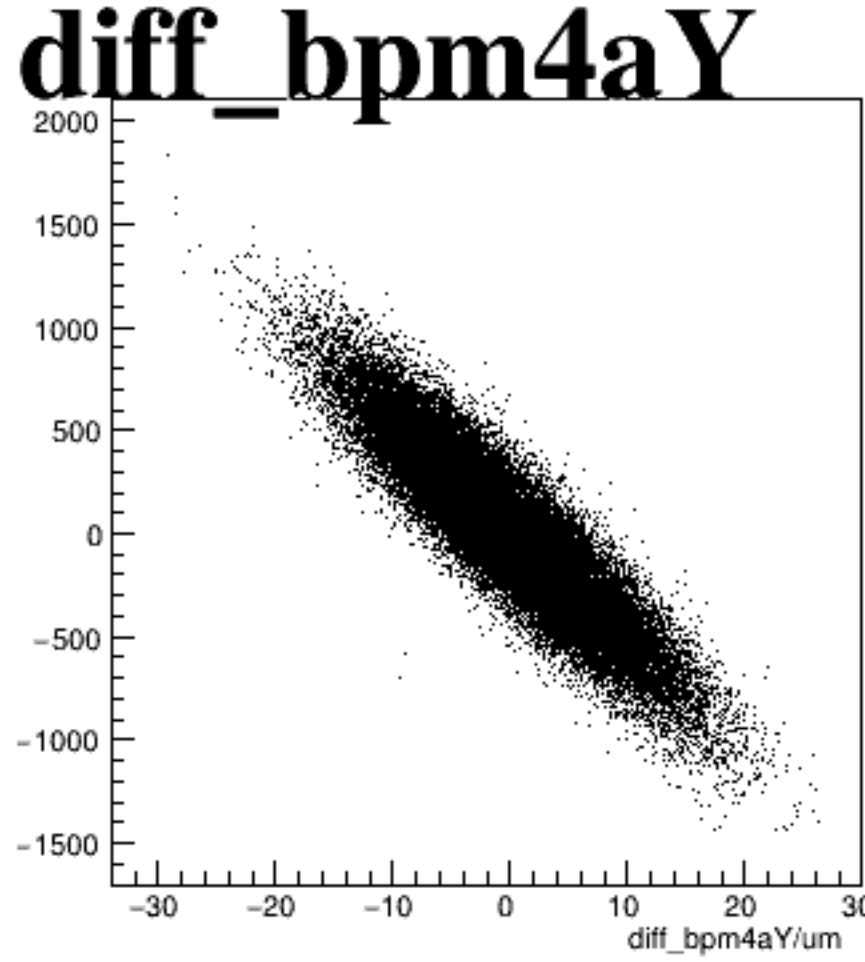
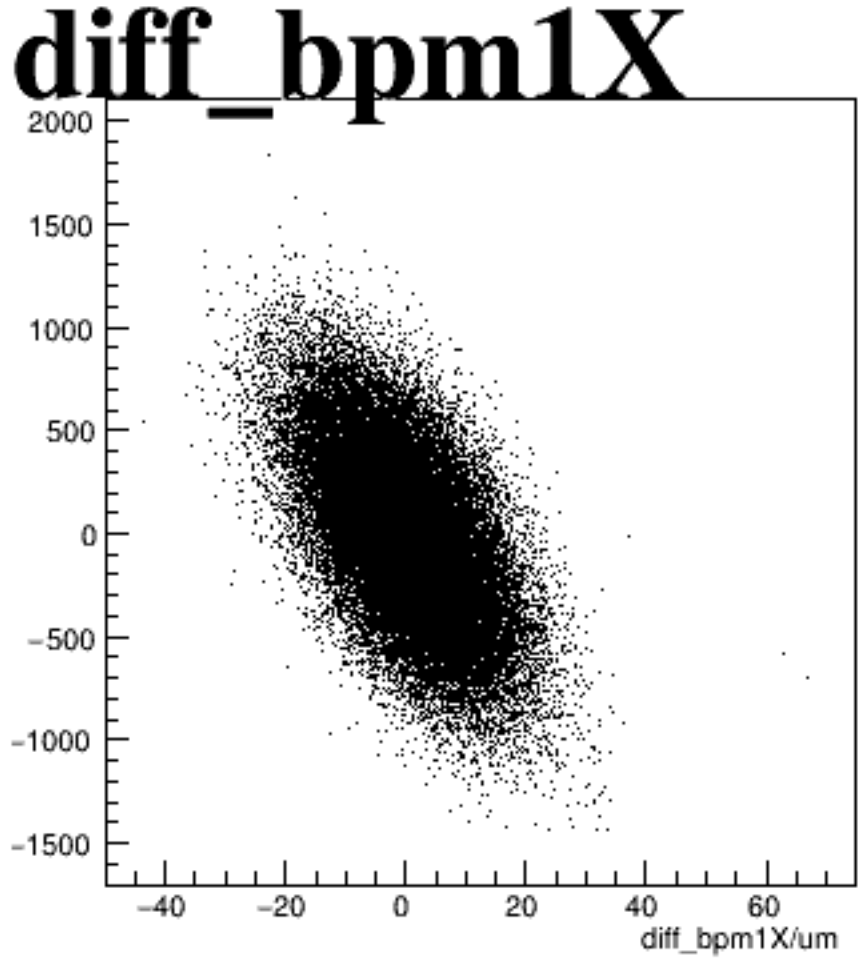
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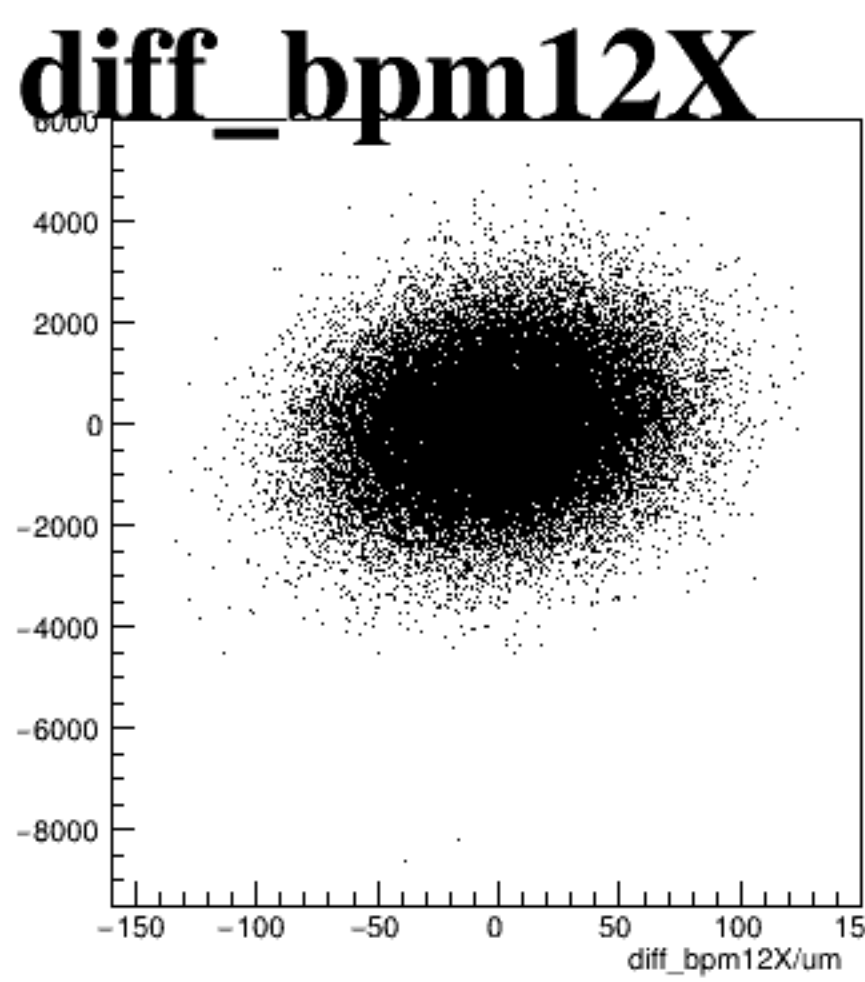
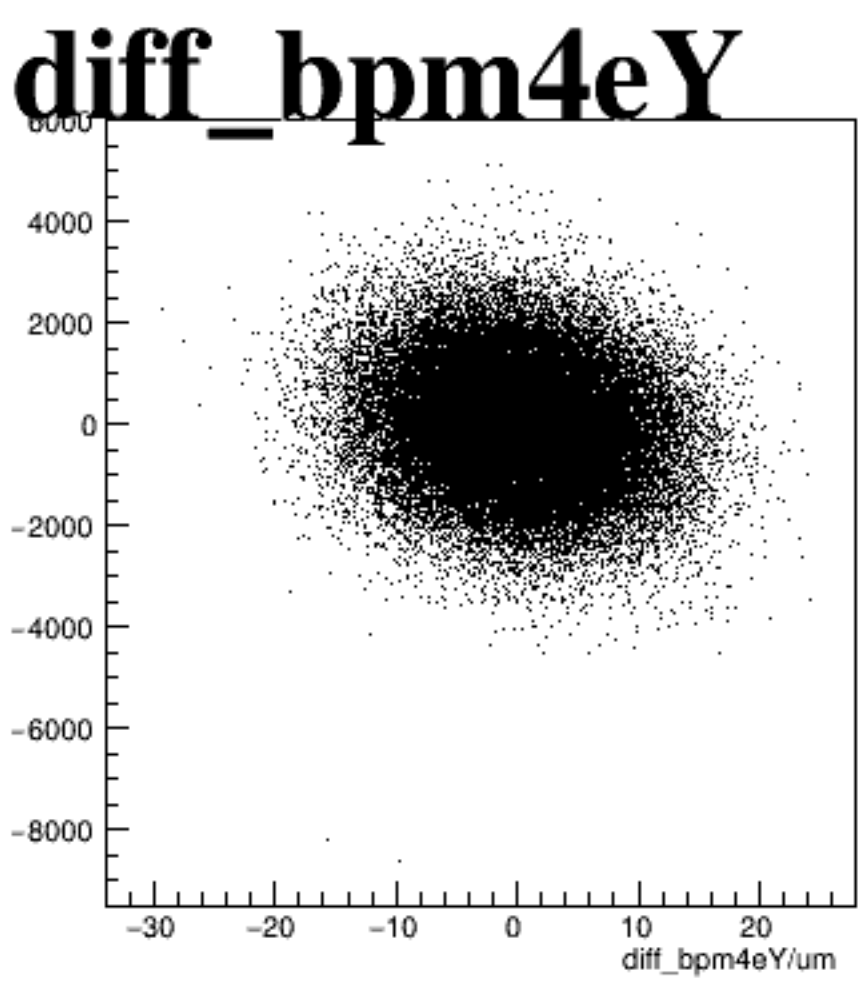
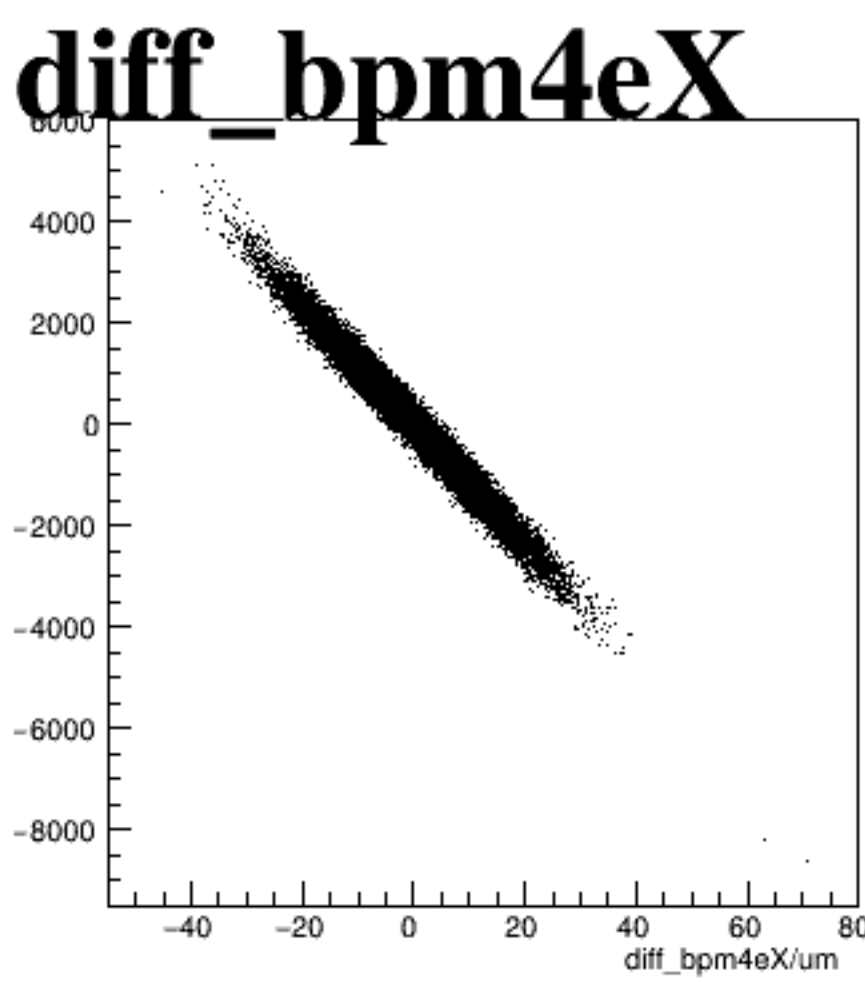
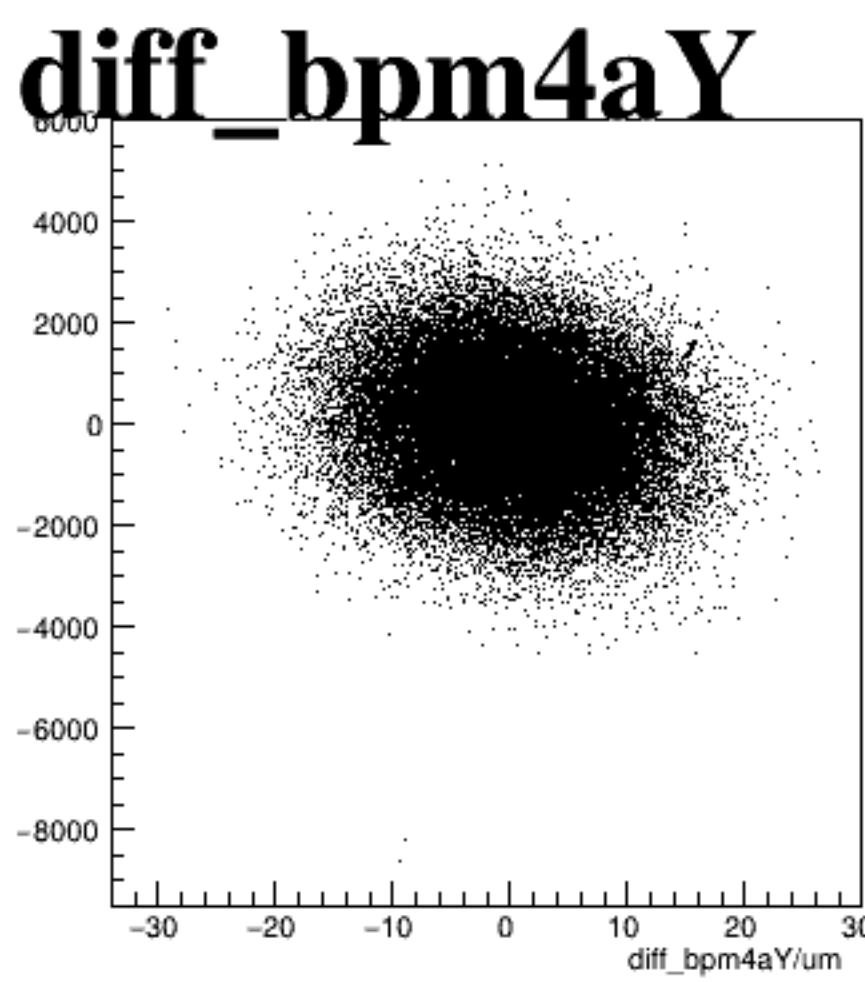
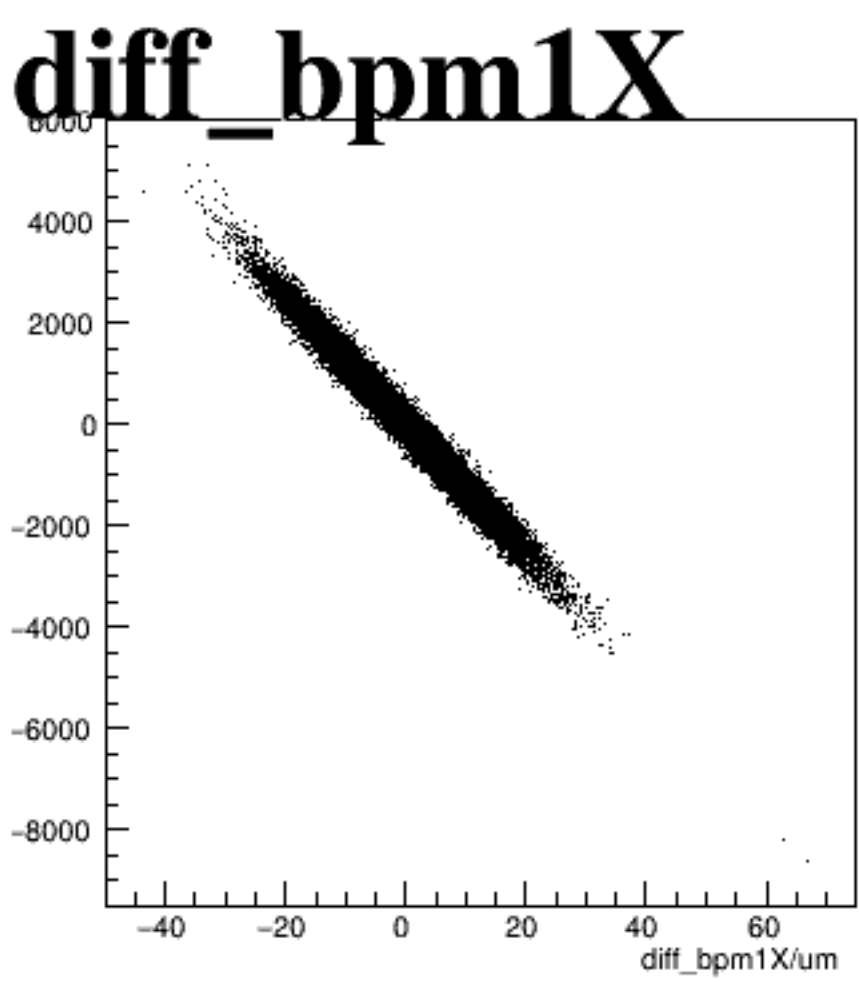
reg_asym_sam7



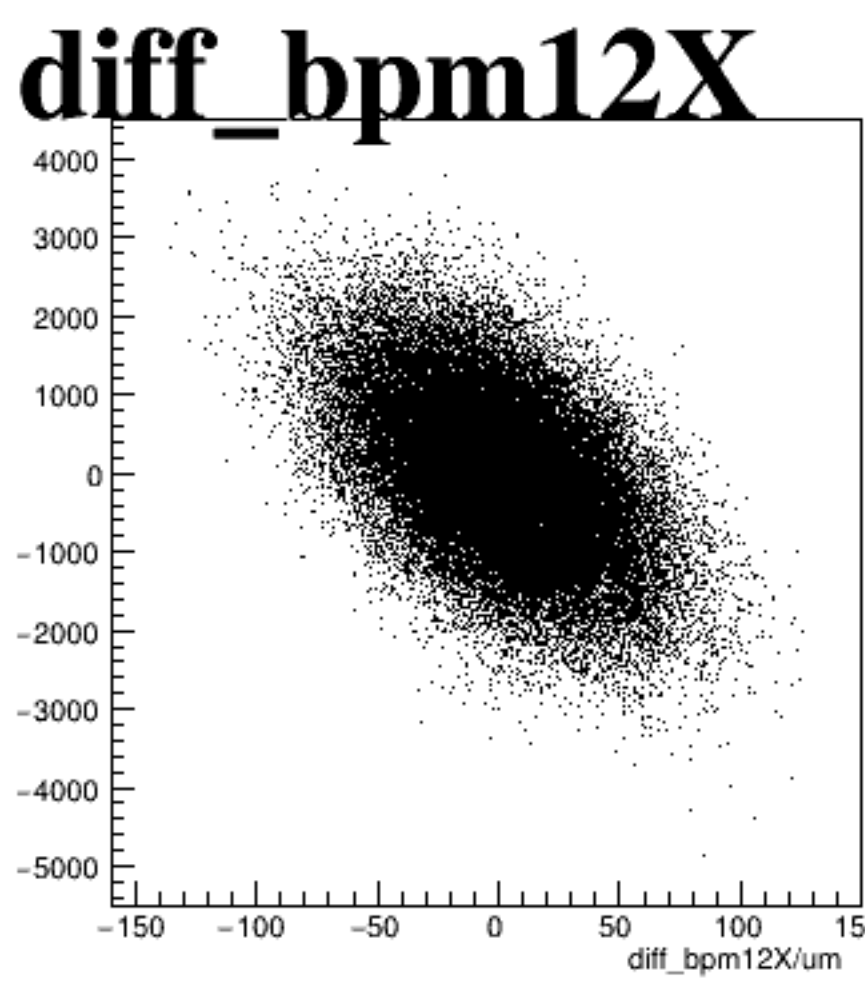
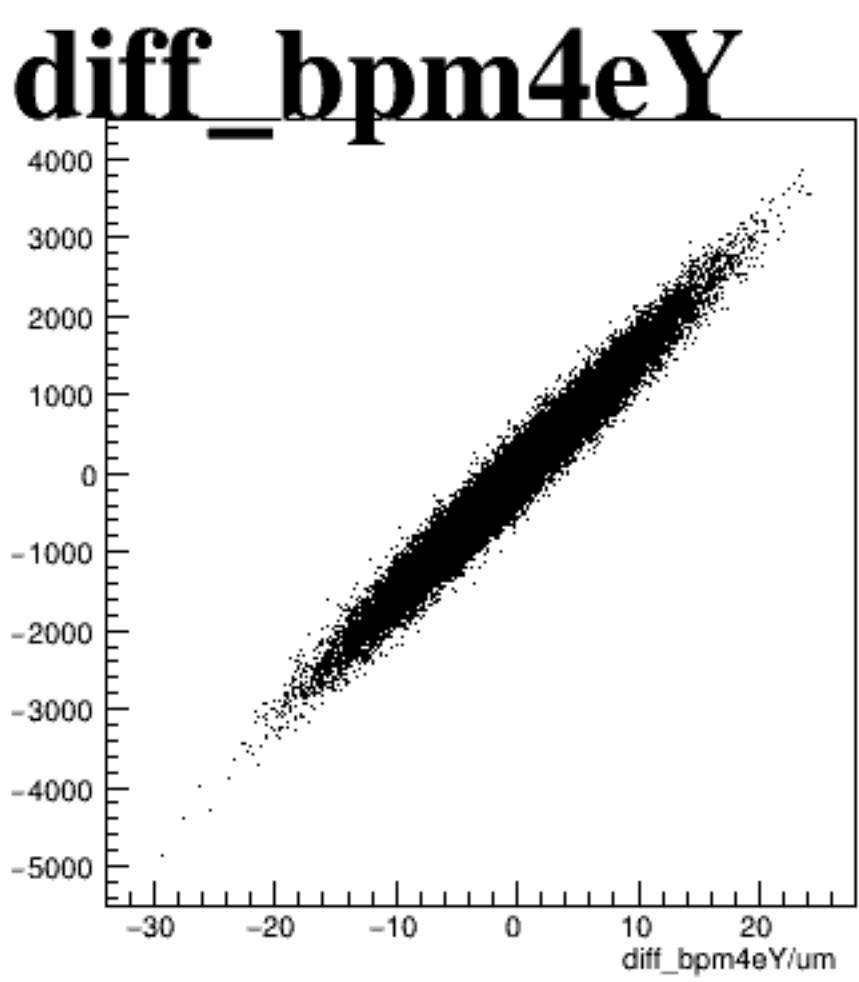
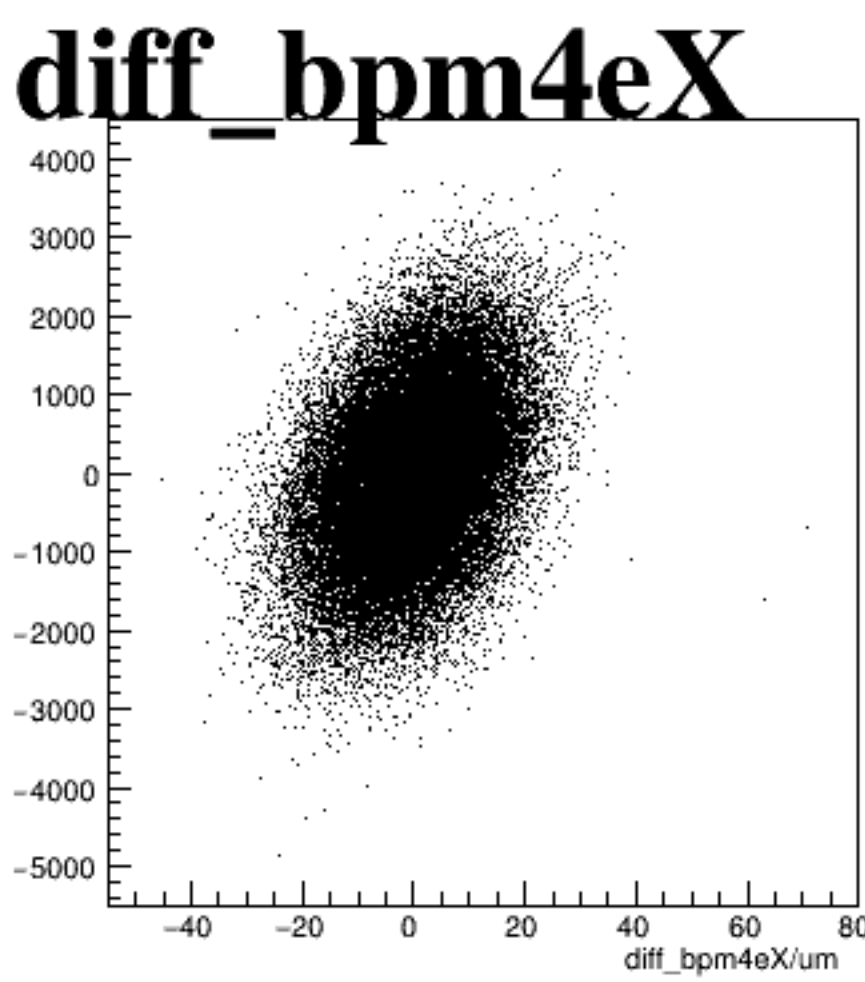
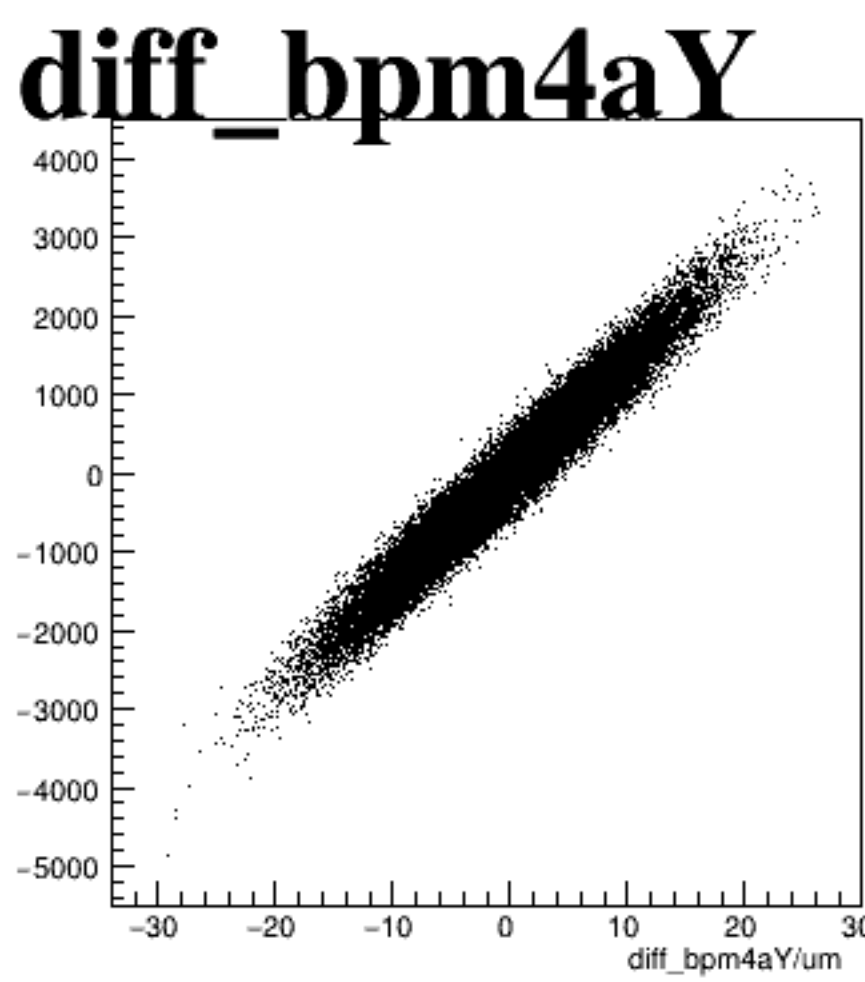
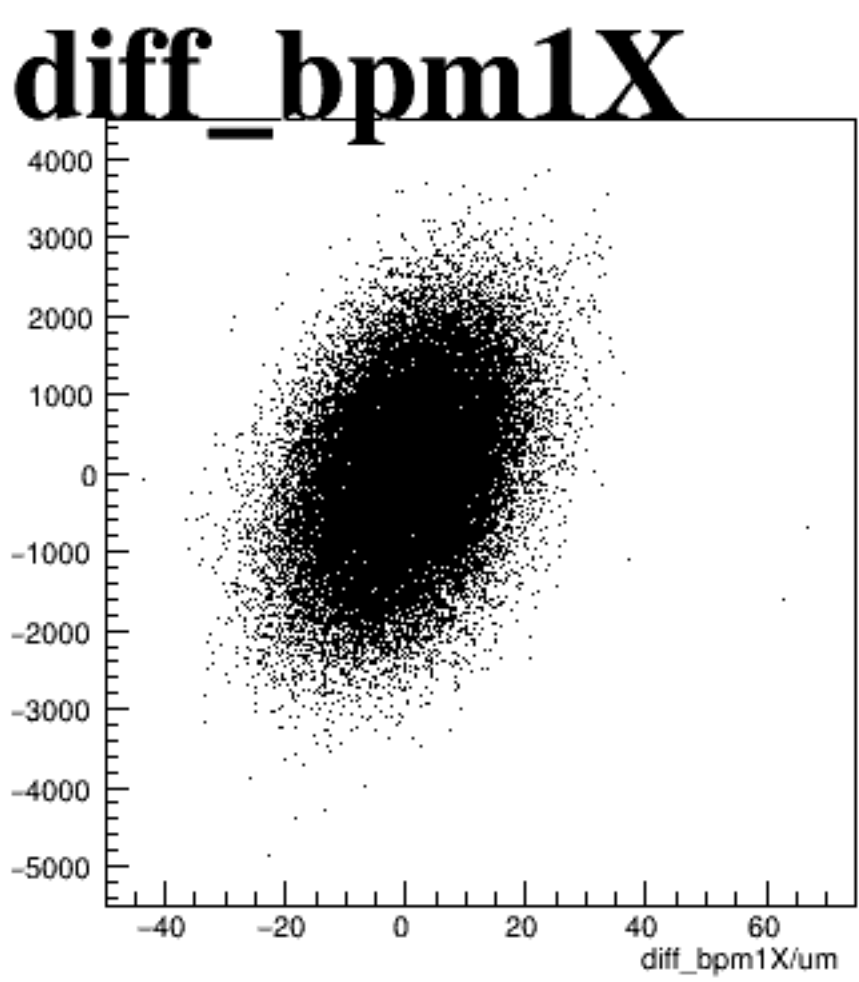
asym_sam1



asym_sam3



asym_sam5



asym_sam7

