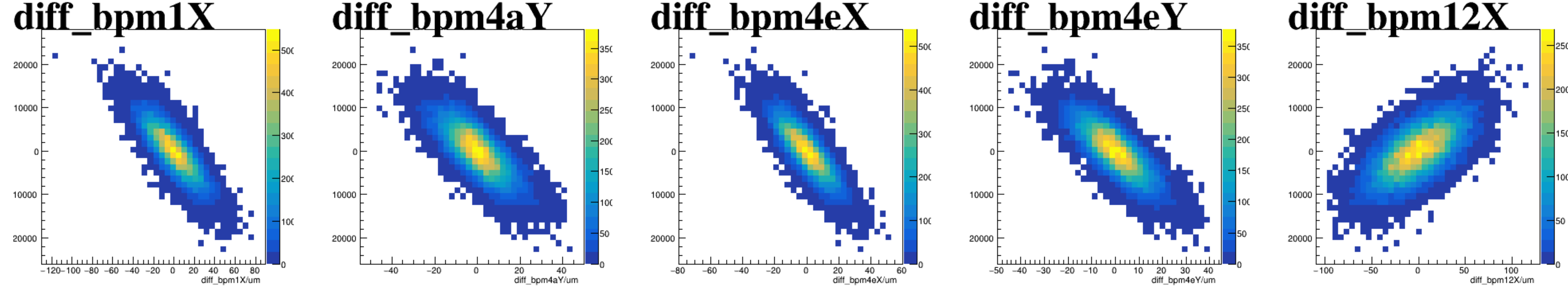
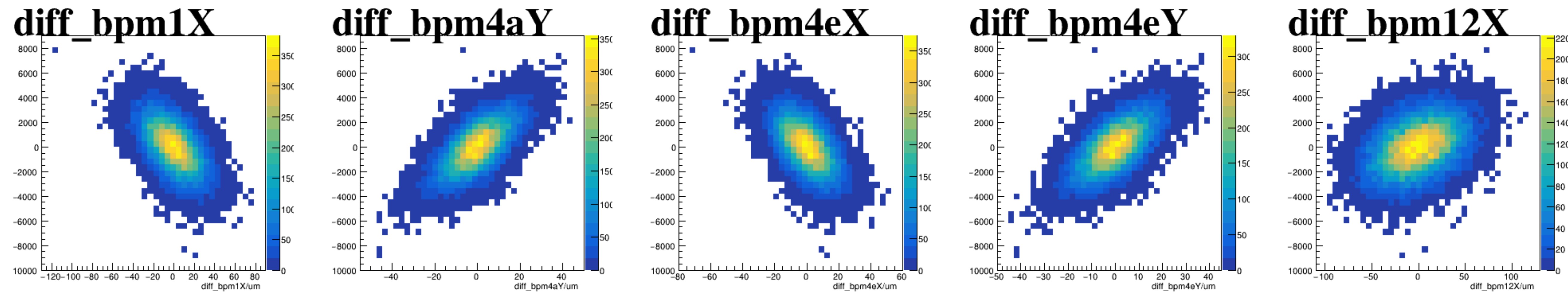


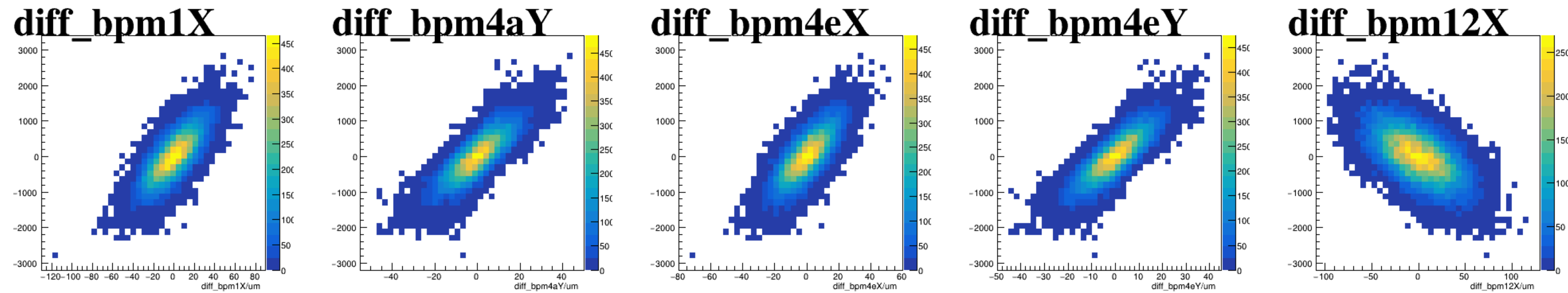
asym_sam2



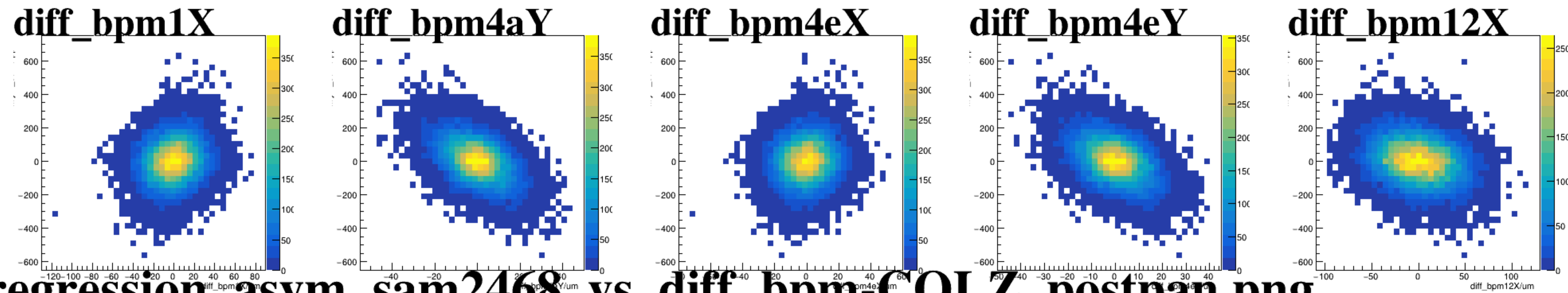
asym_sam4



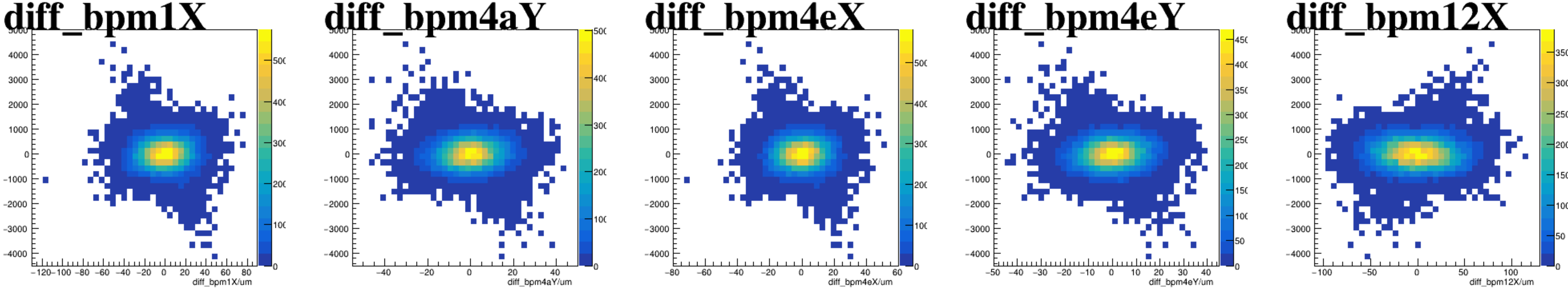
asym_sam6



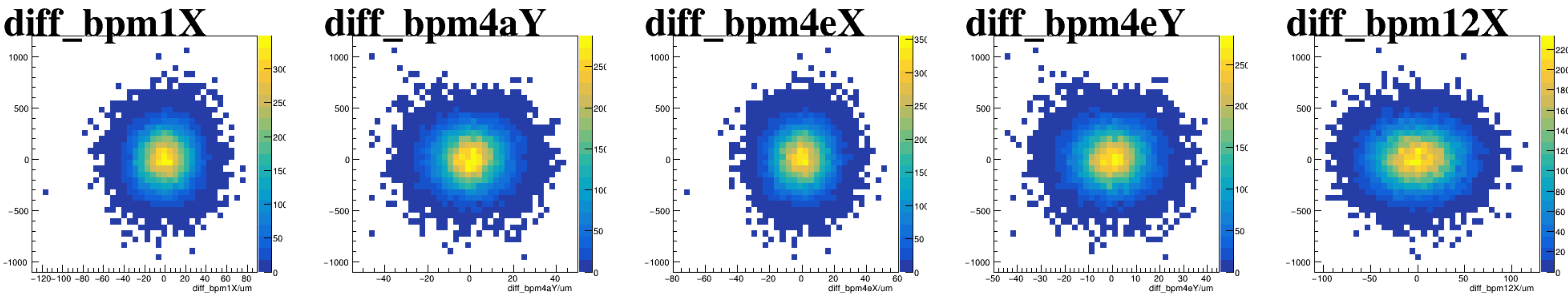
asym_sam8



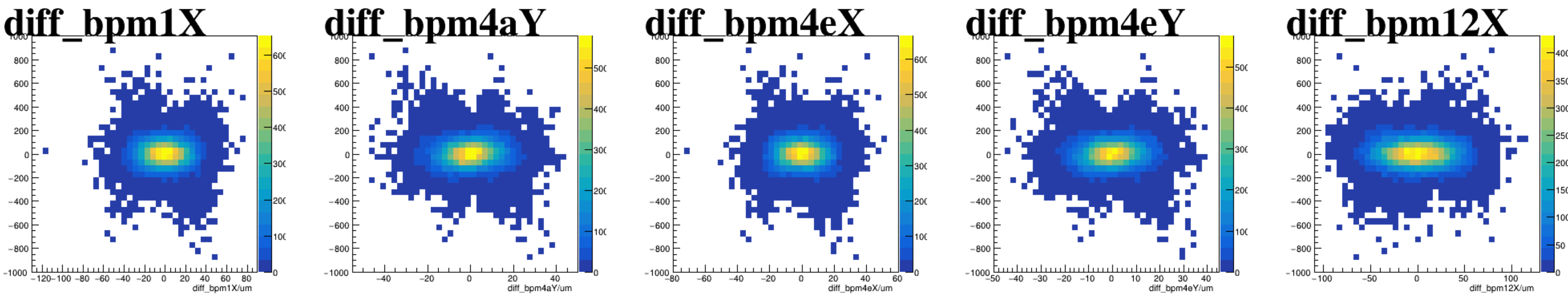
reg_asym_sam2



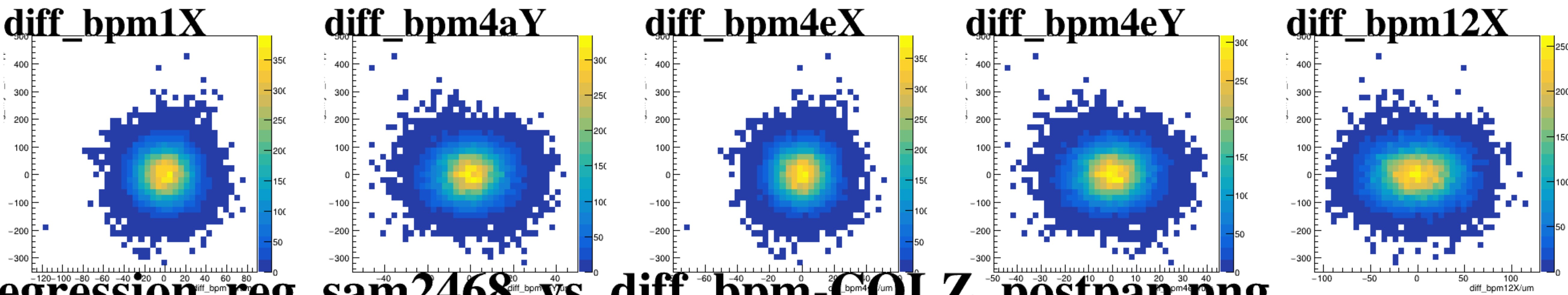
reg_asym_sam4



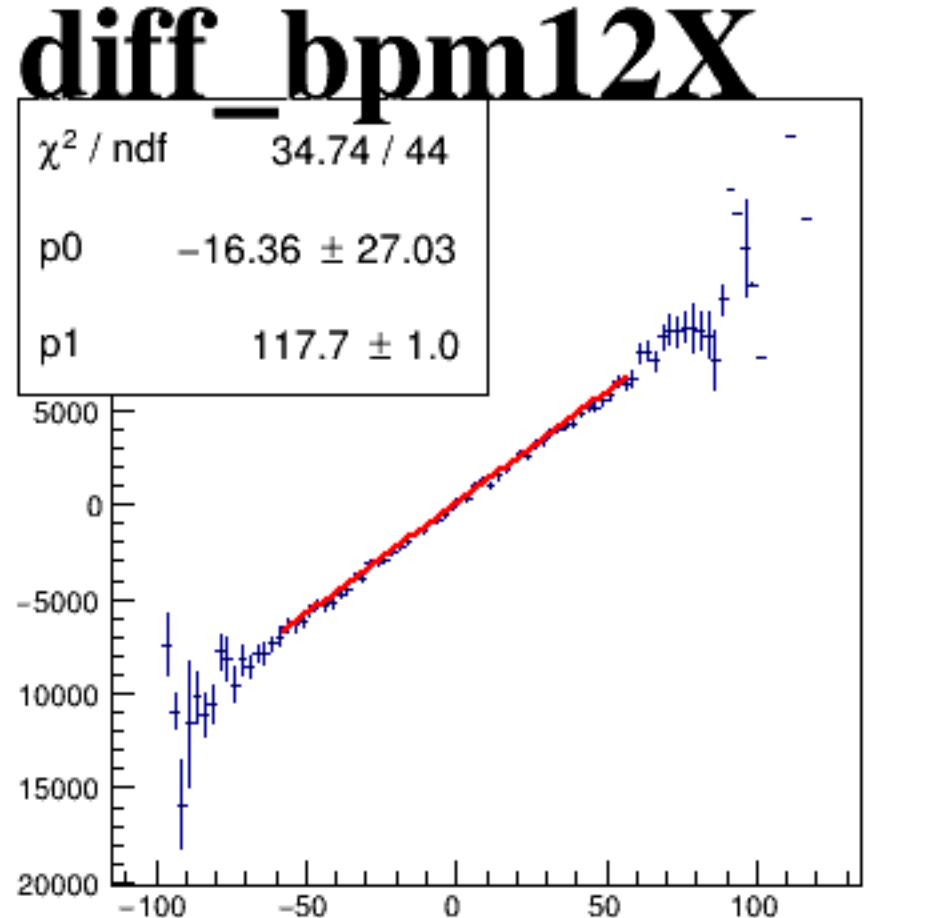
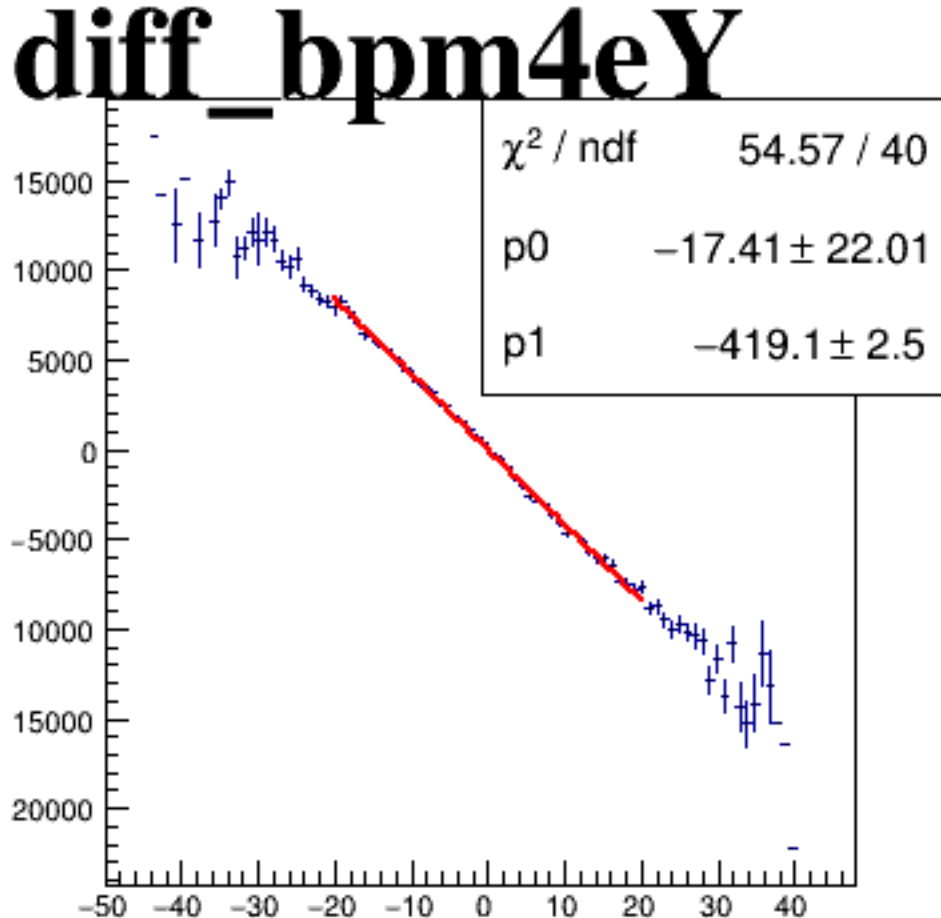
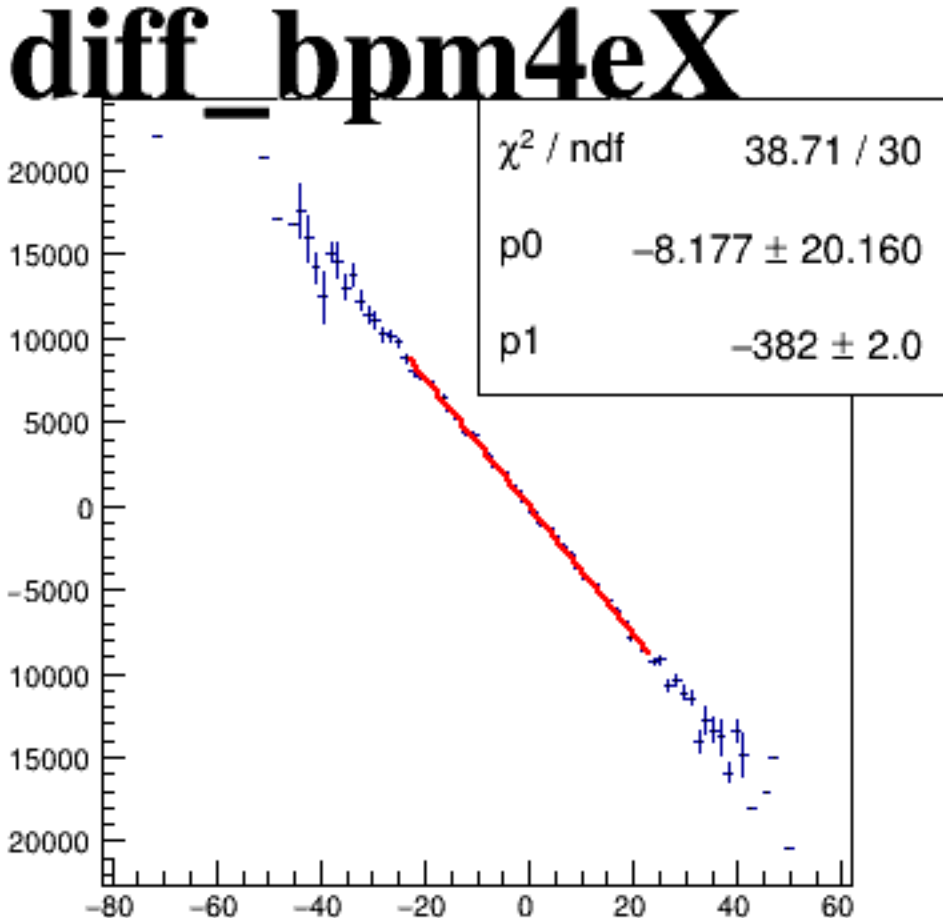
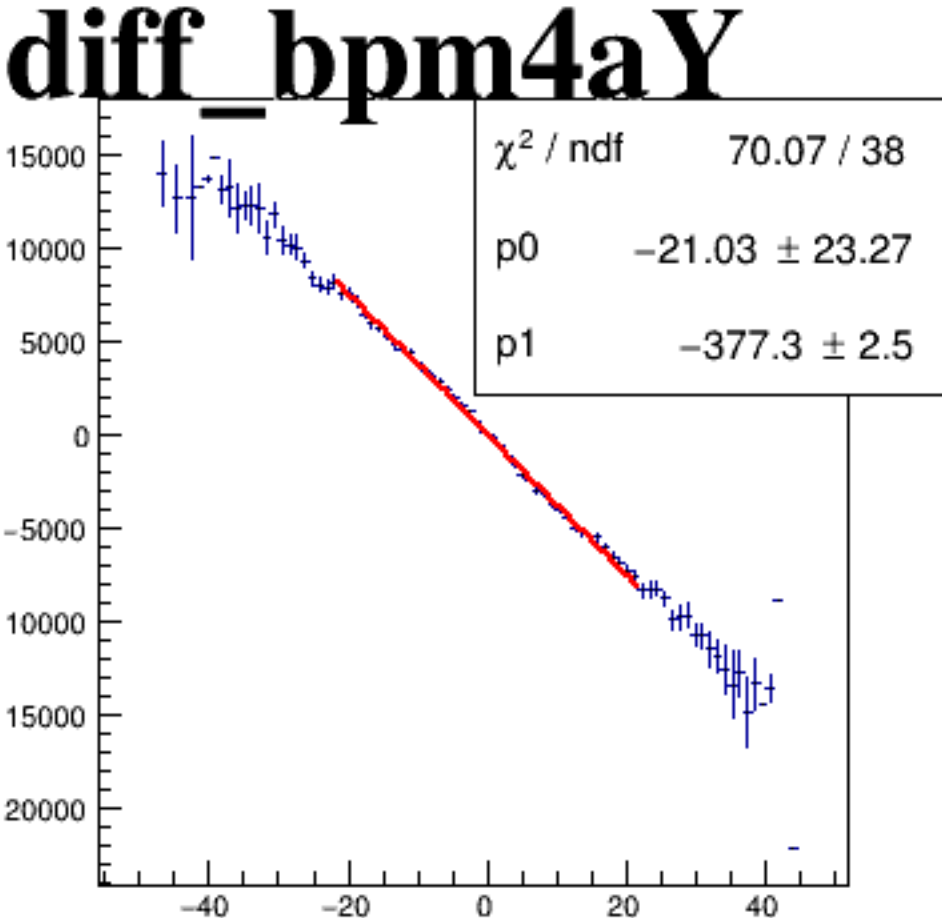
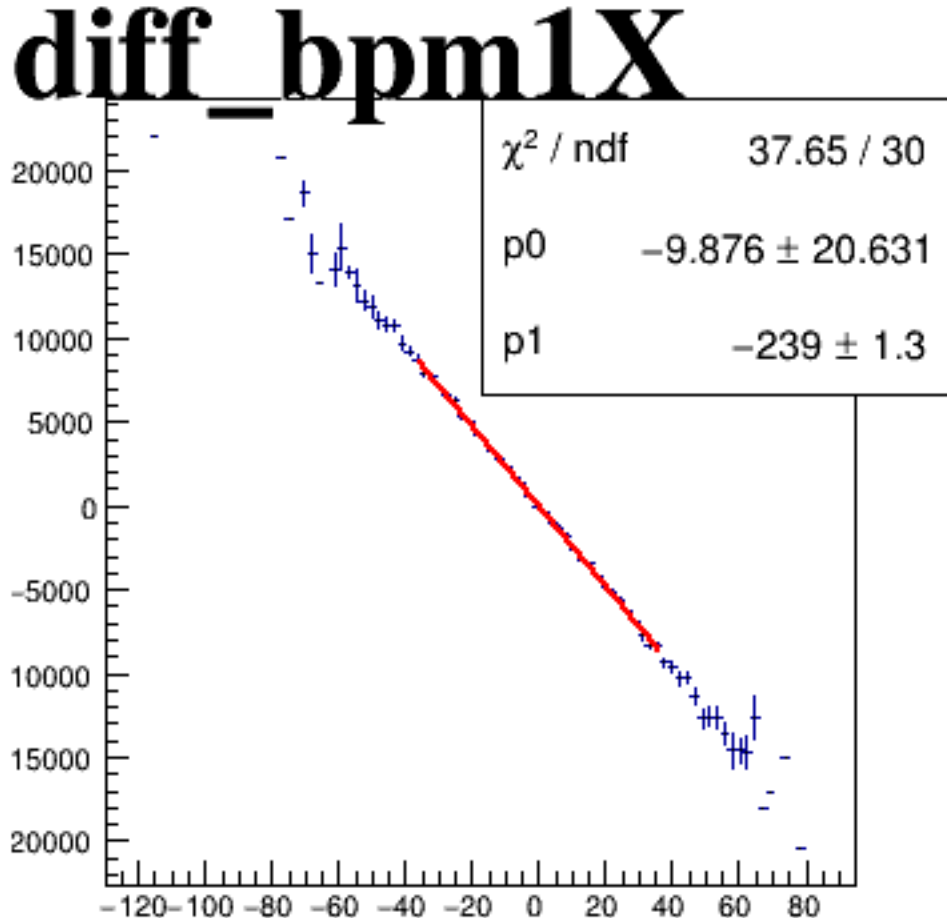
reg_asym_sam6



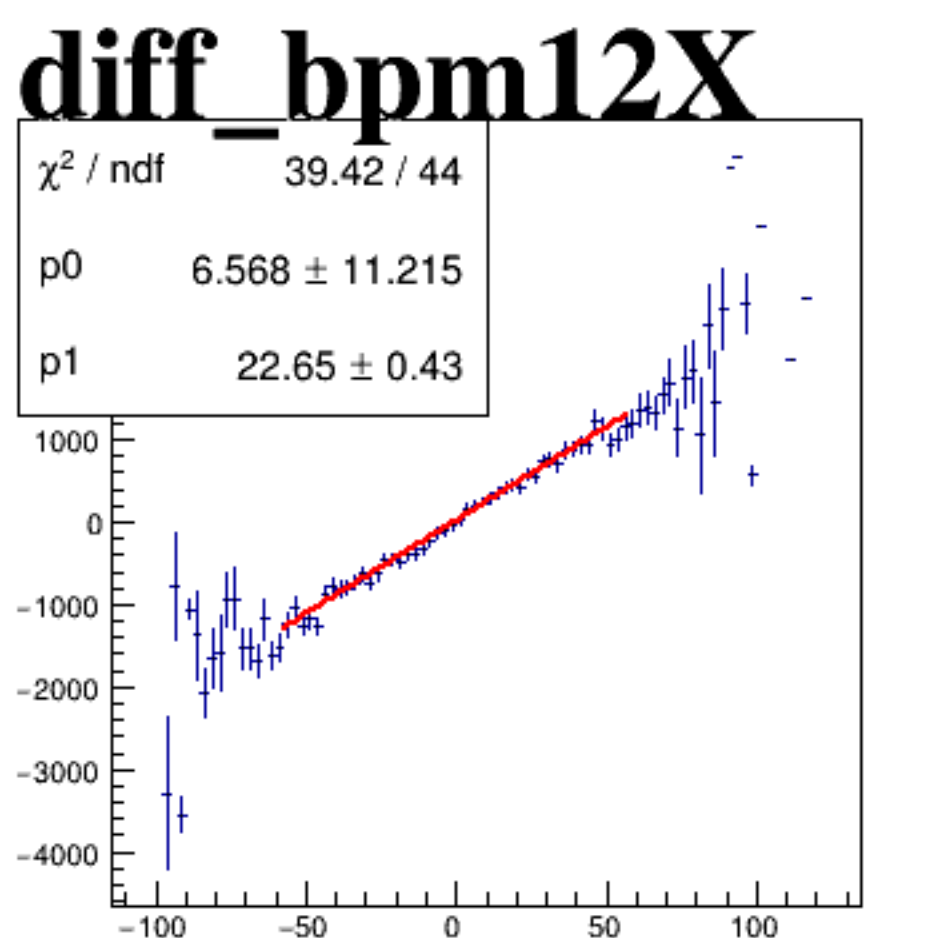
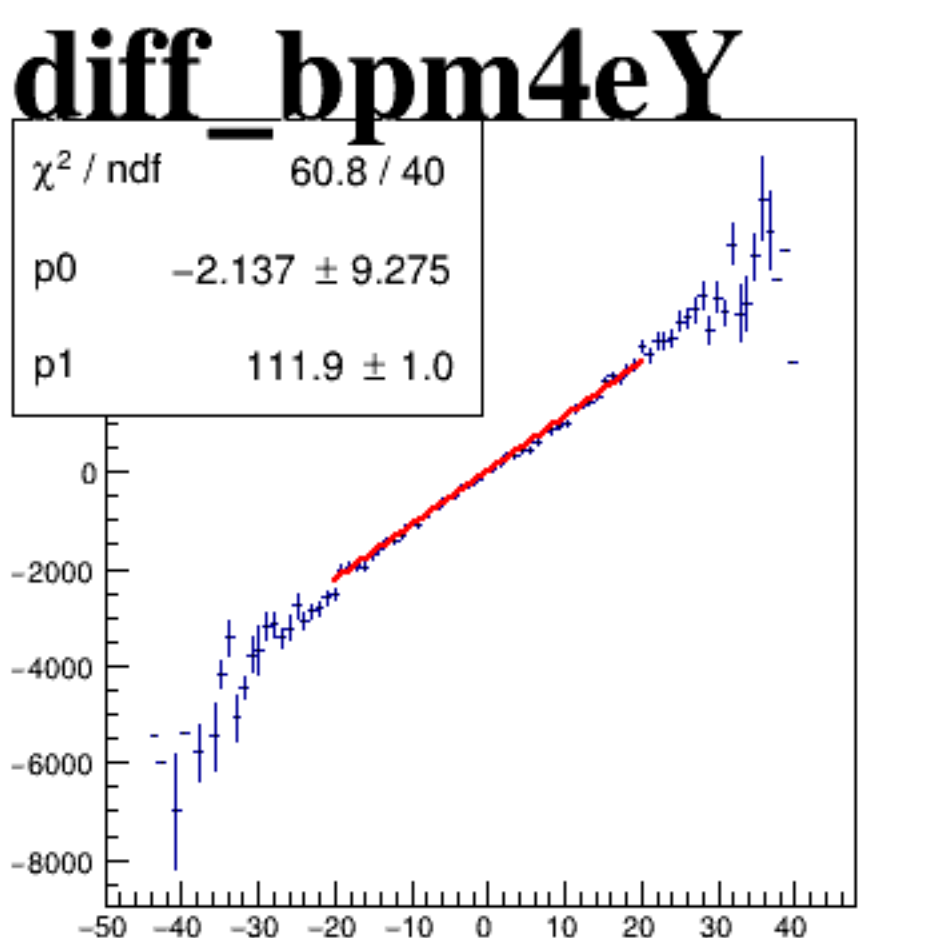
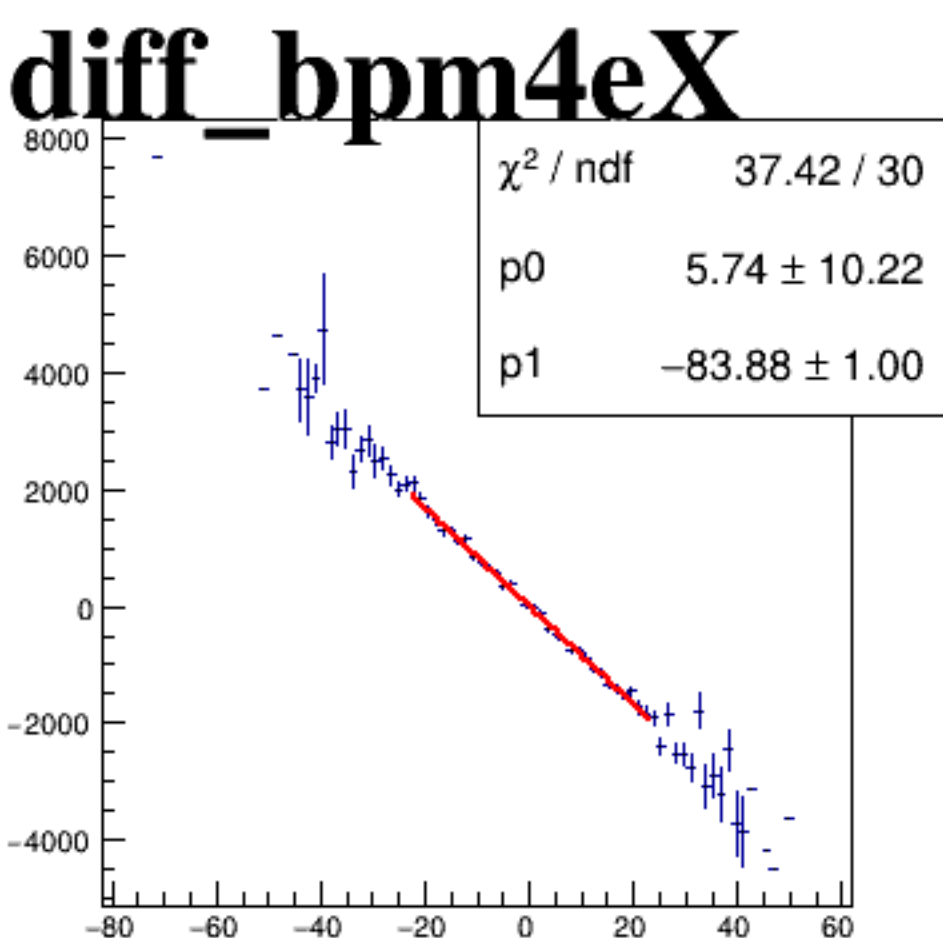
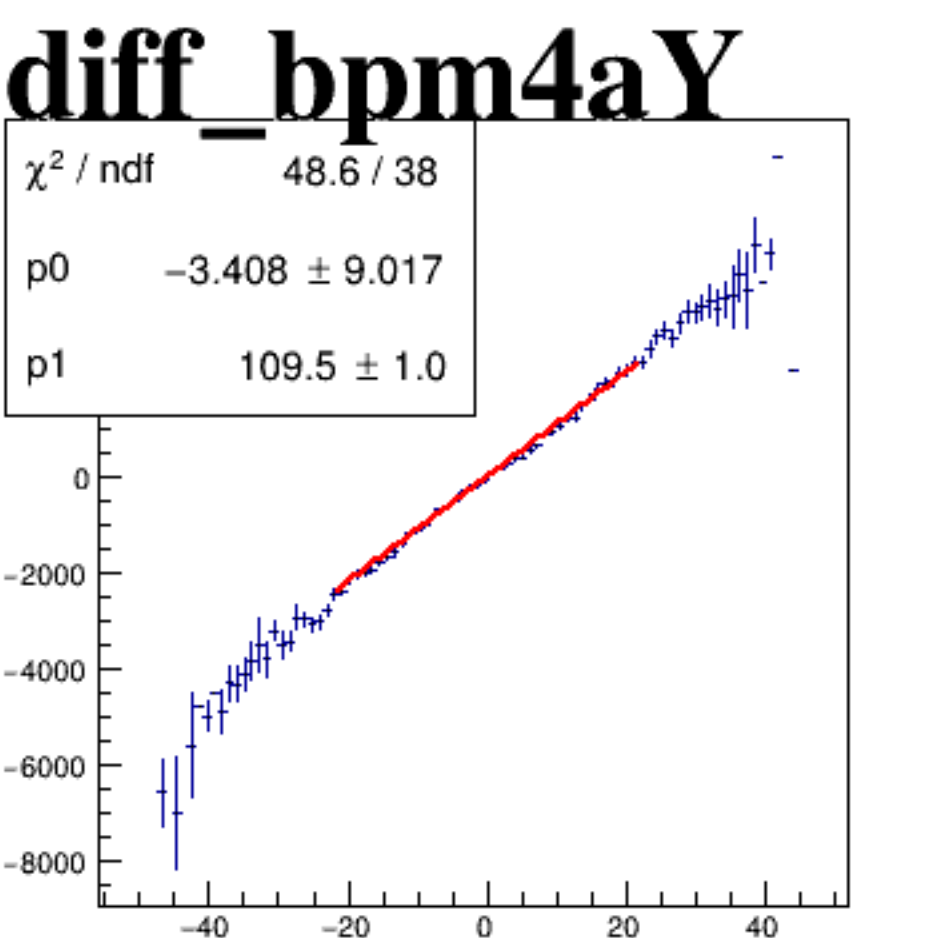
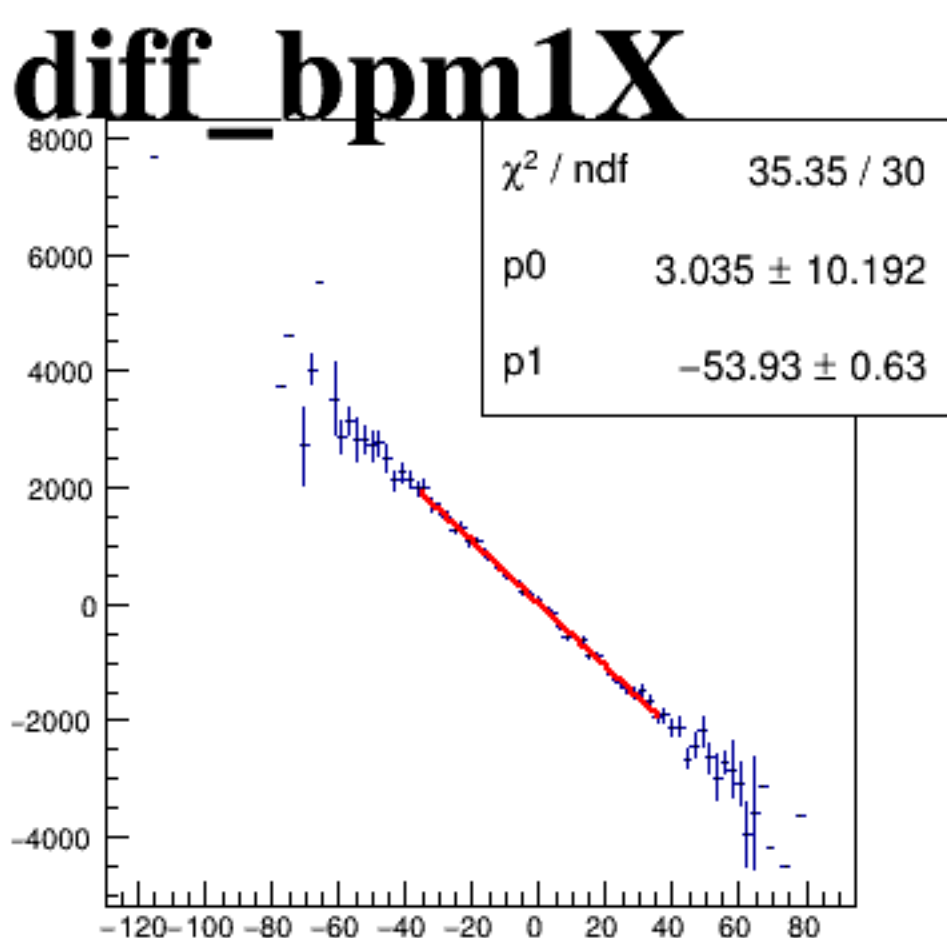
reg_asym_sam8



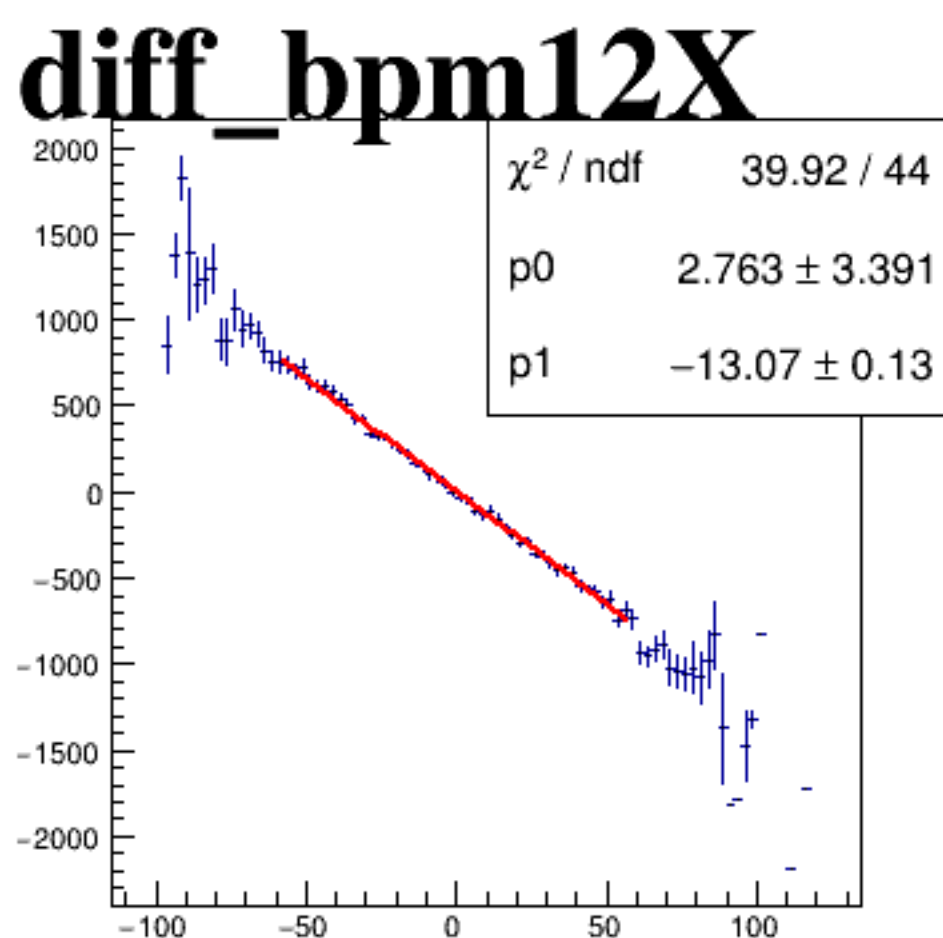
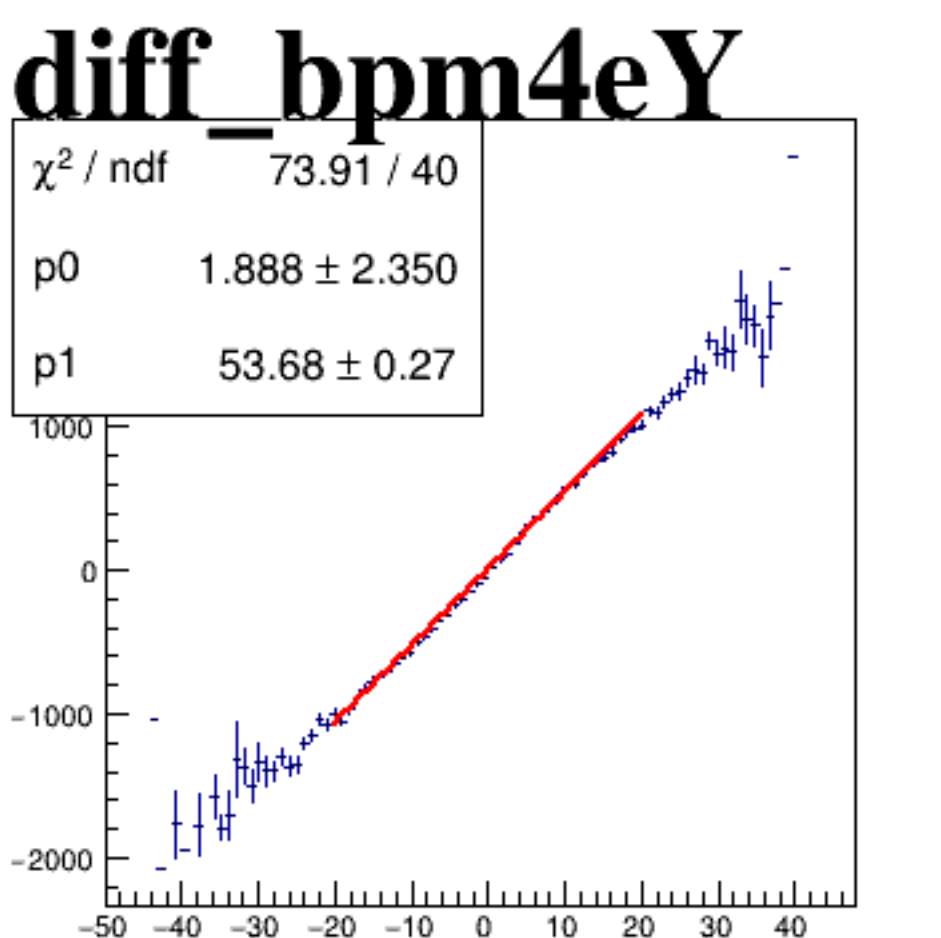
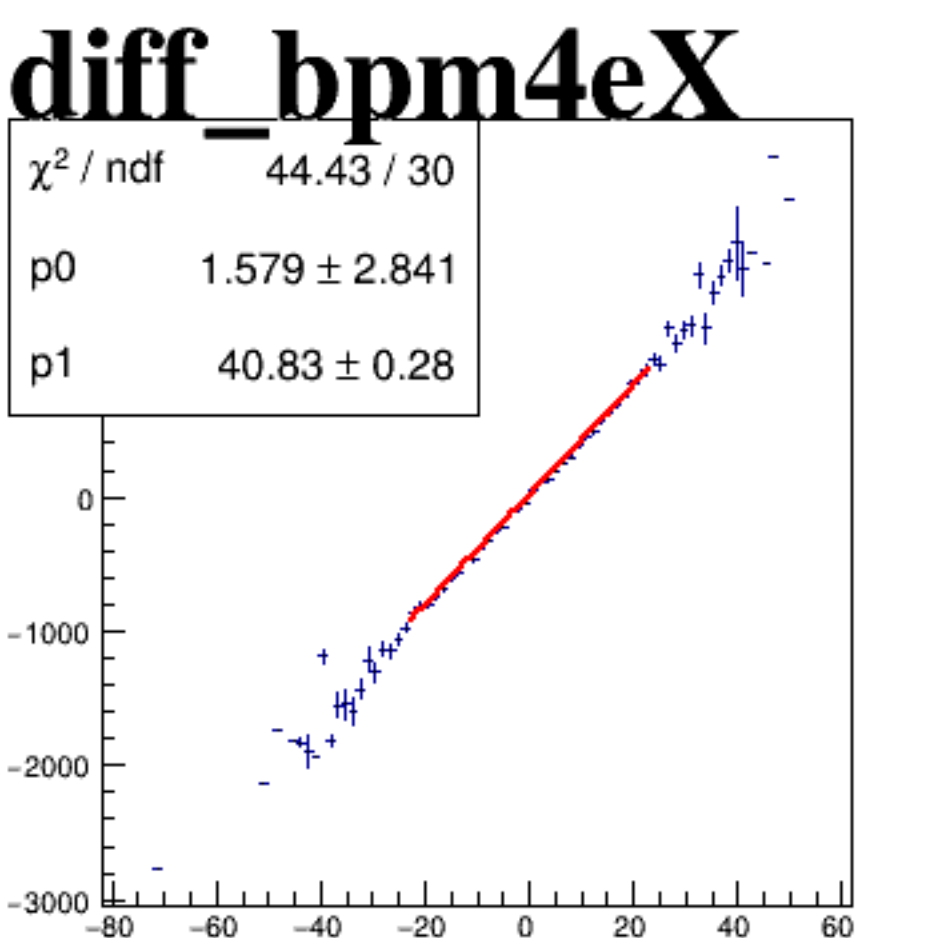
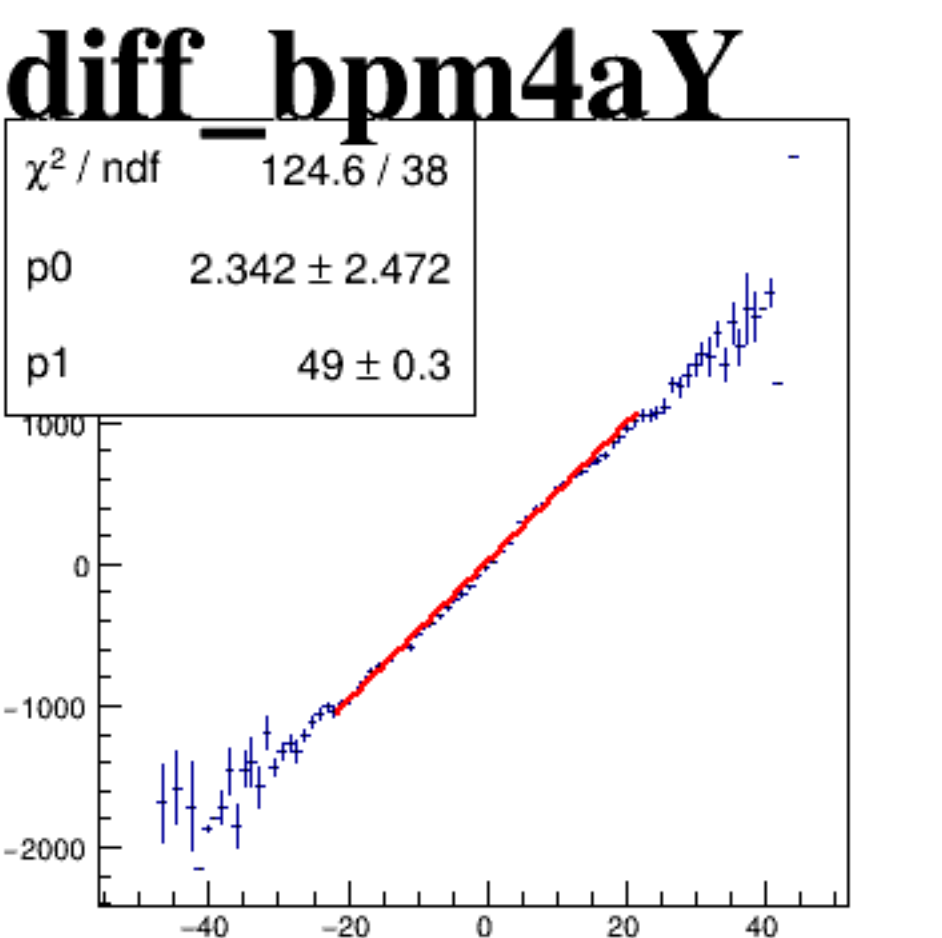
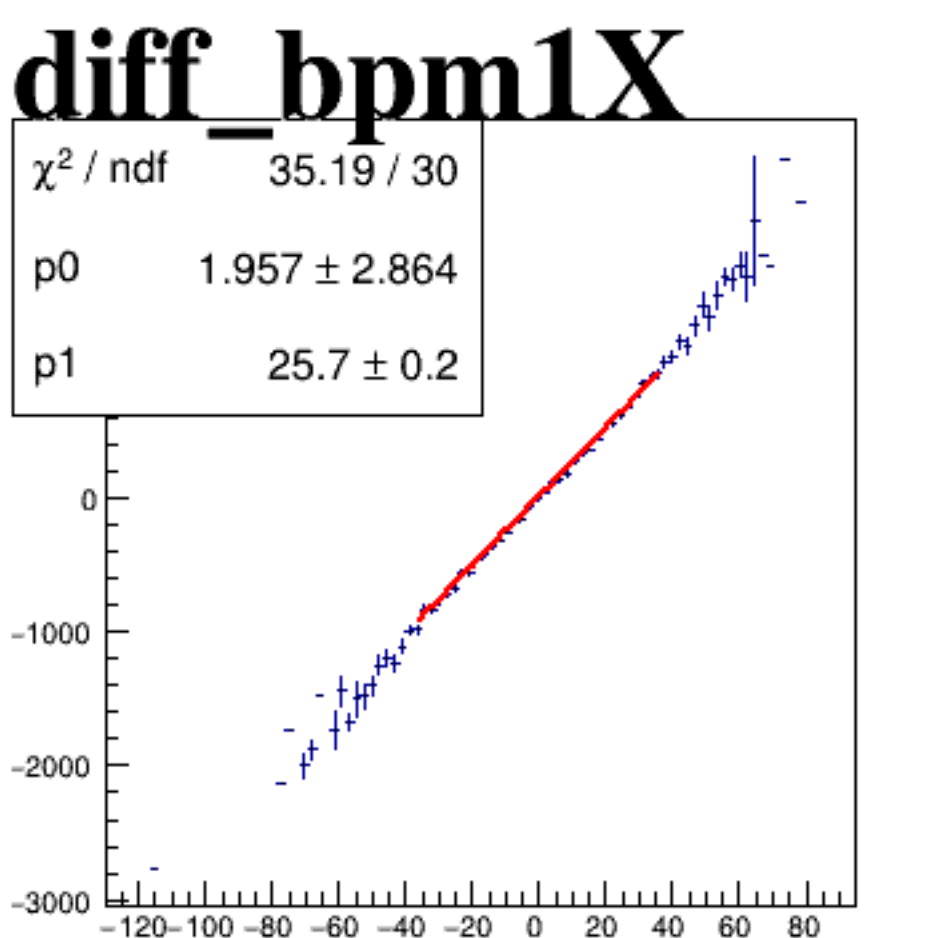
asym_sam2



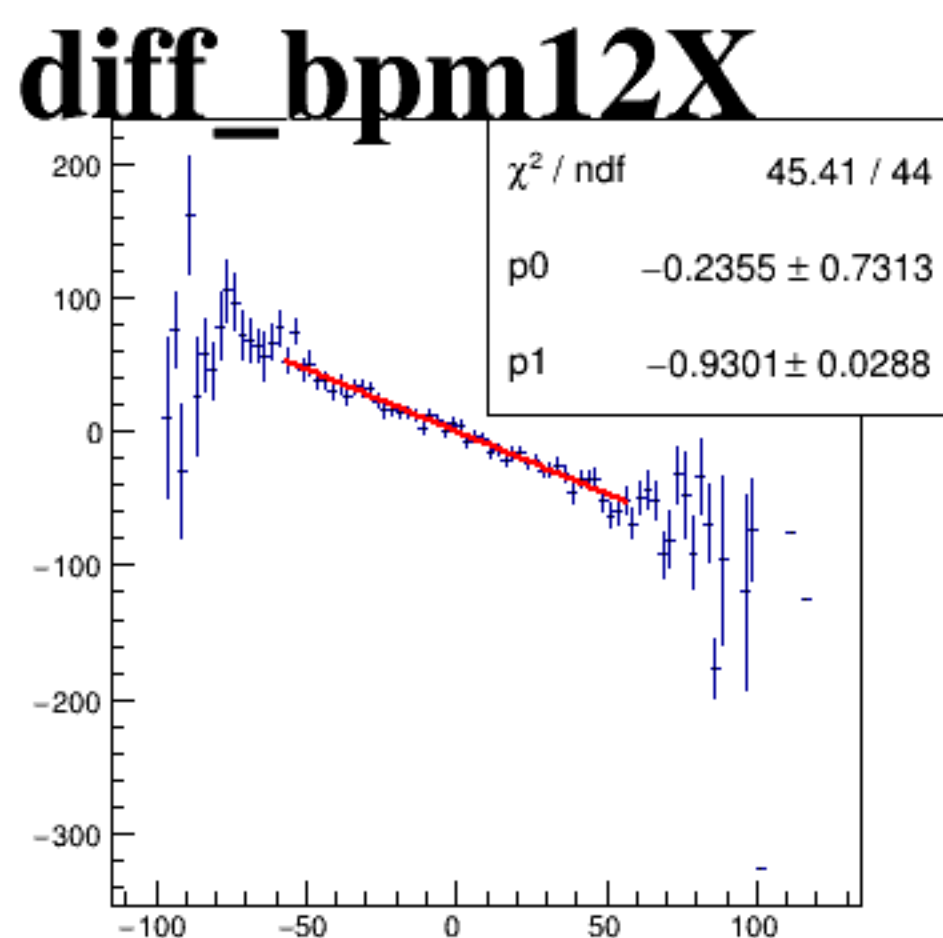
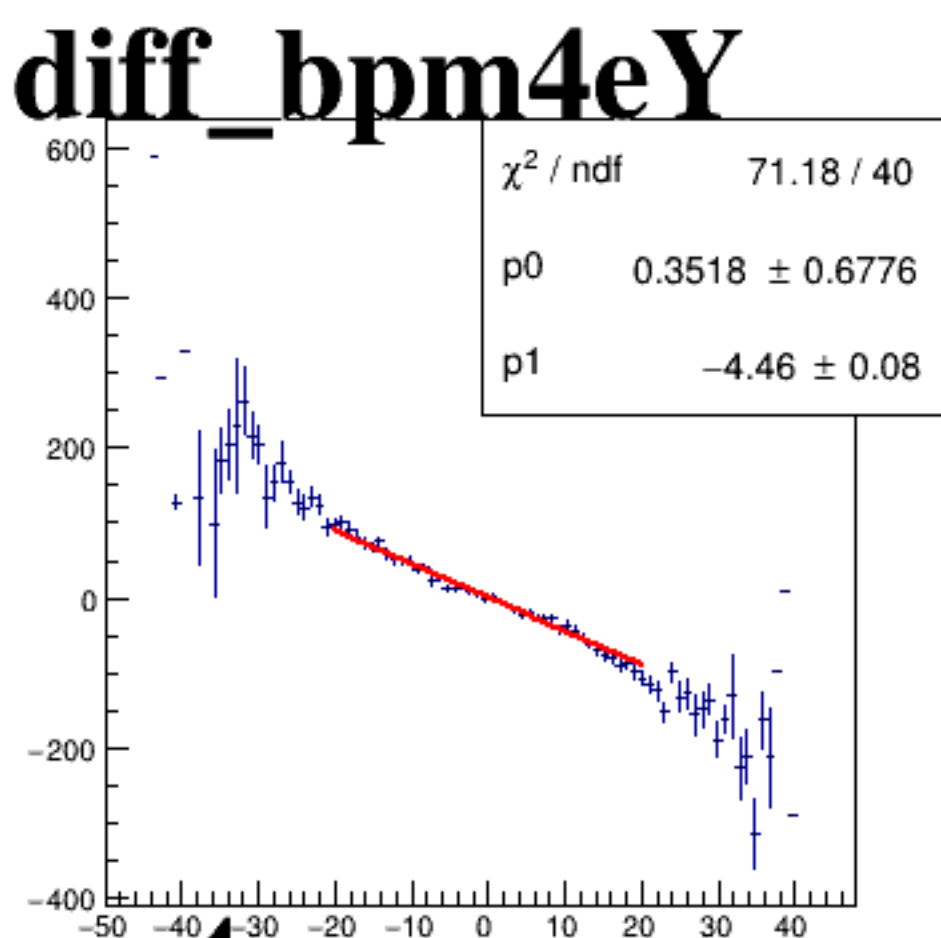
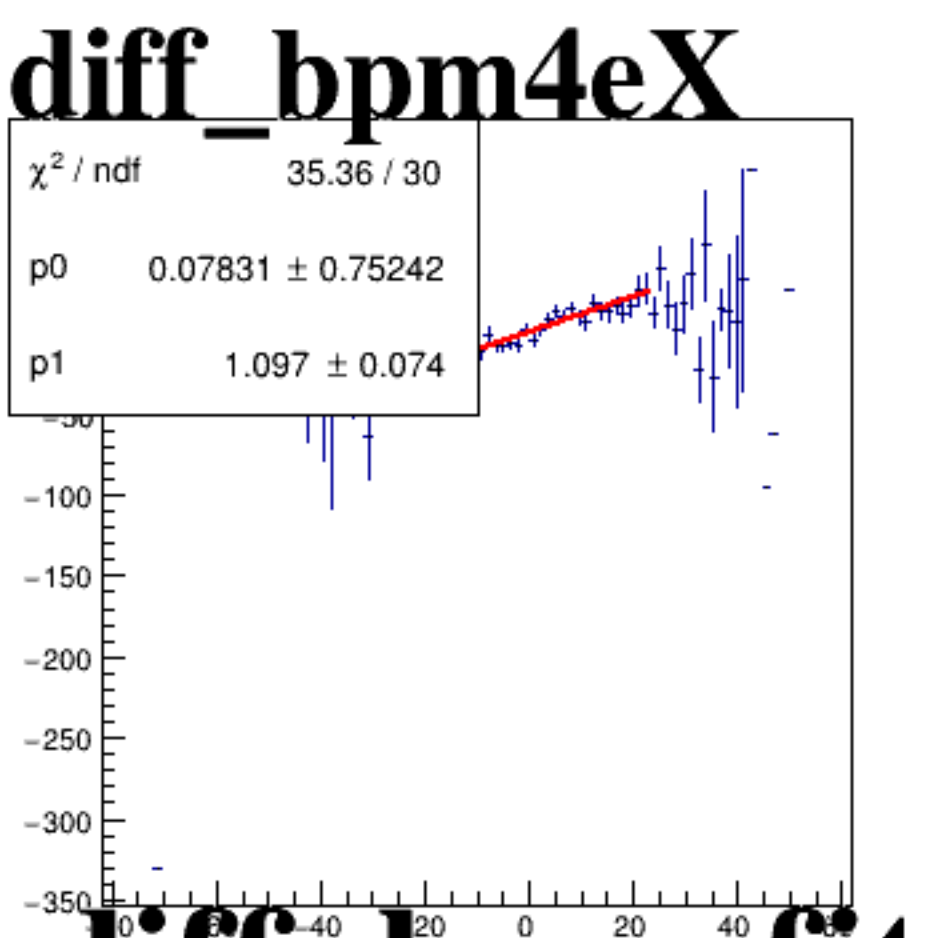
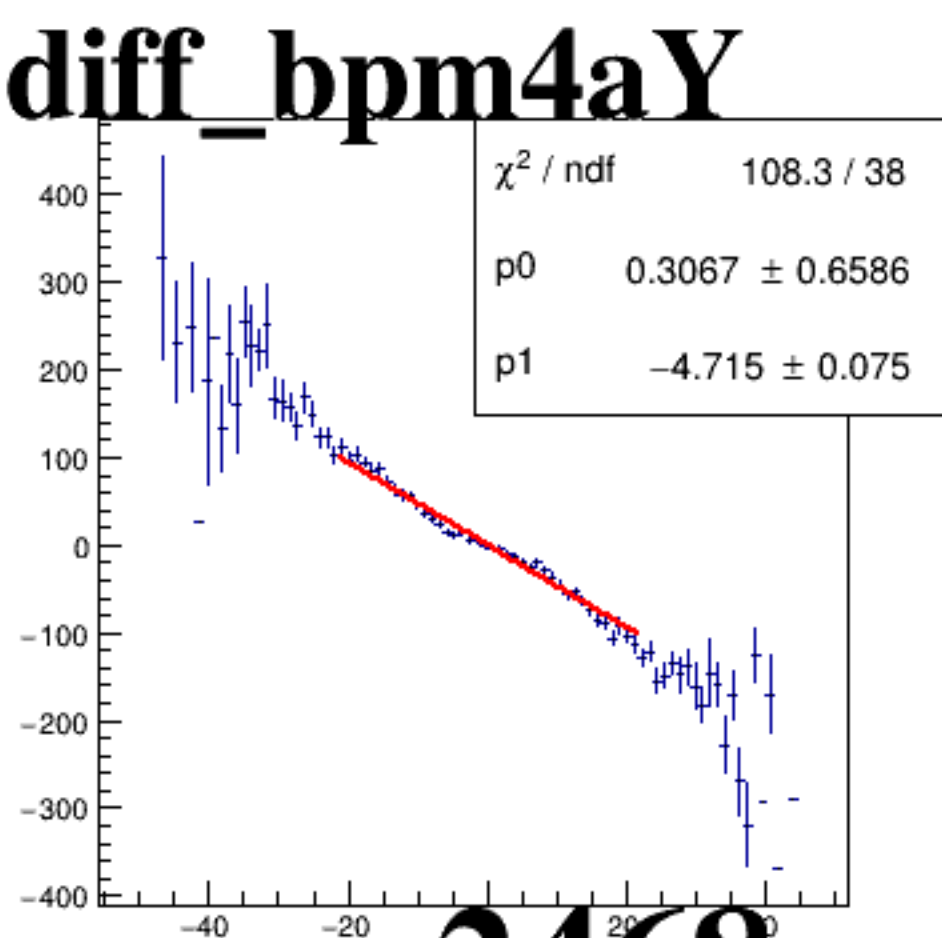
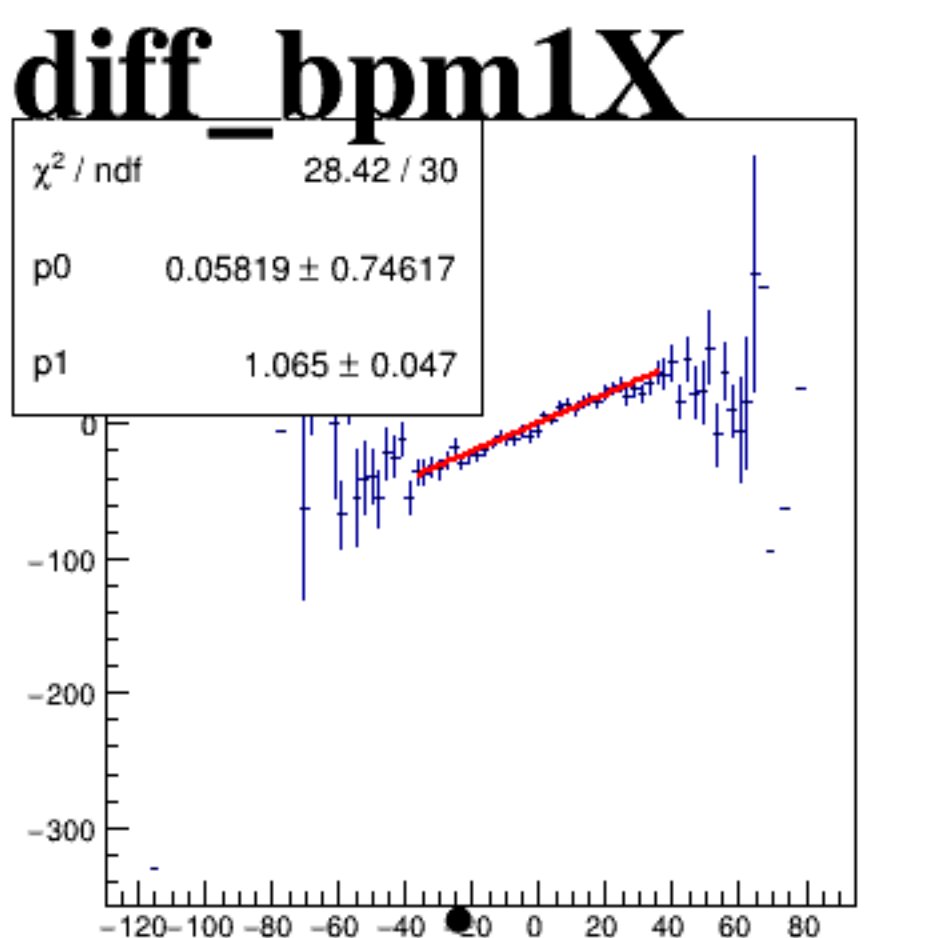
asym_sam4



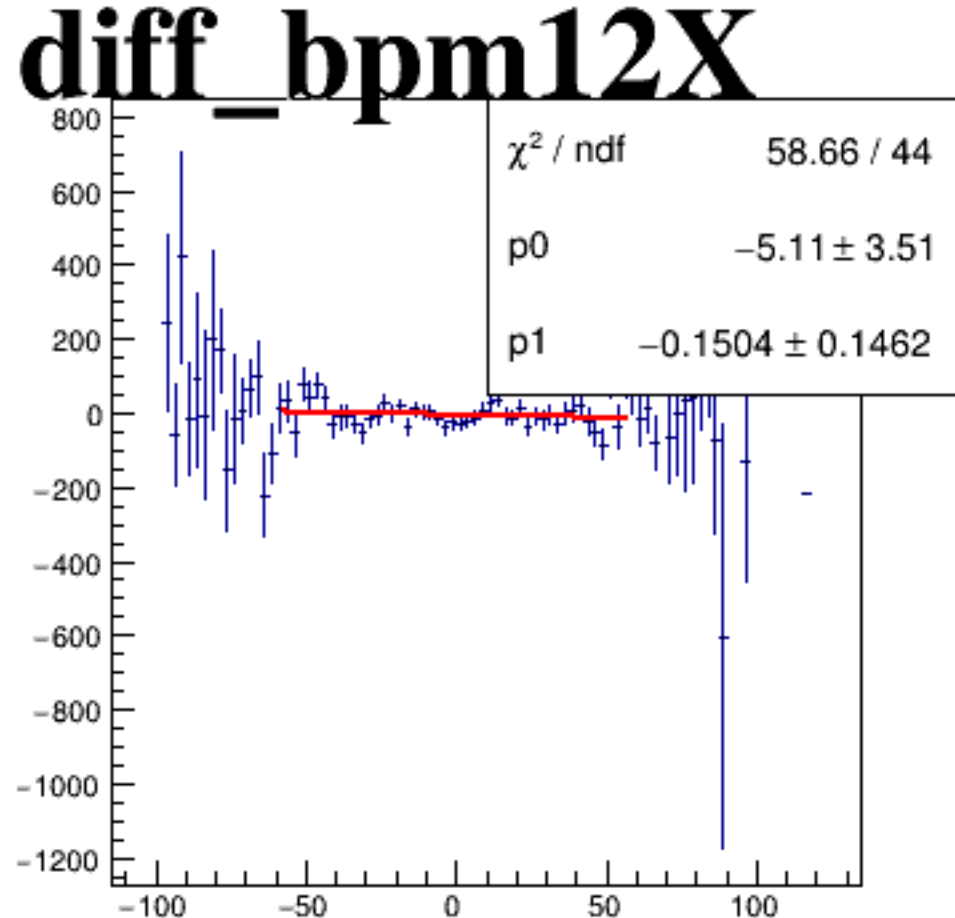
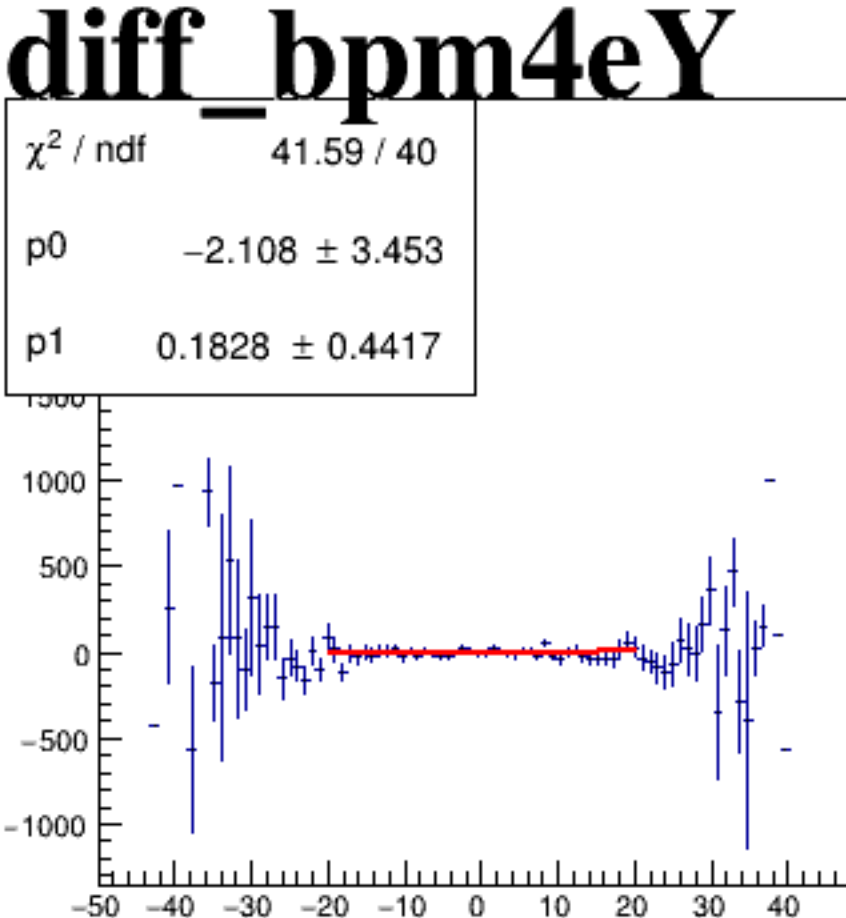
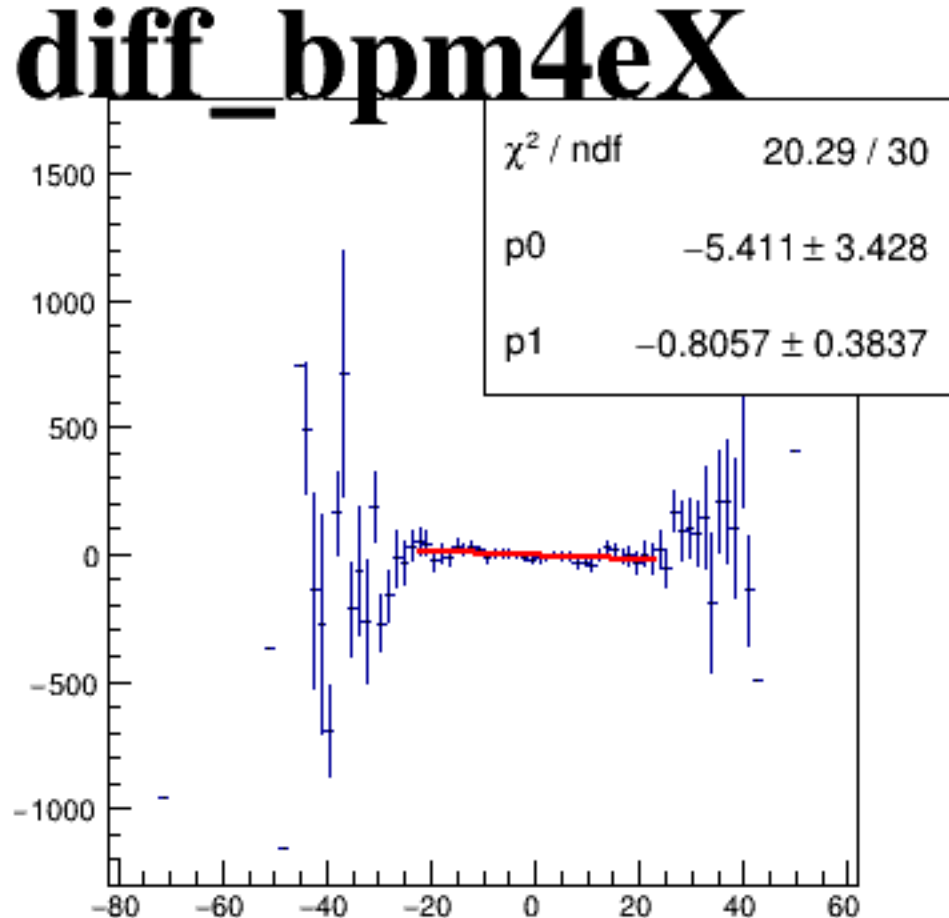
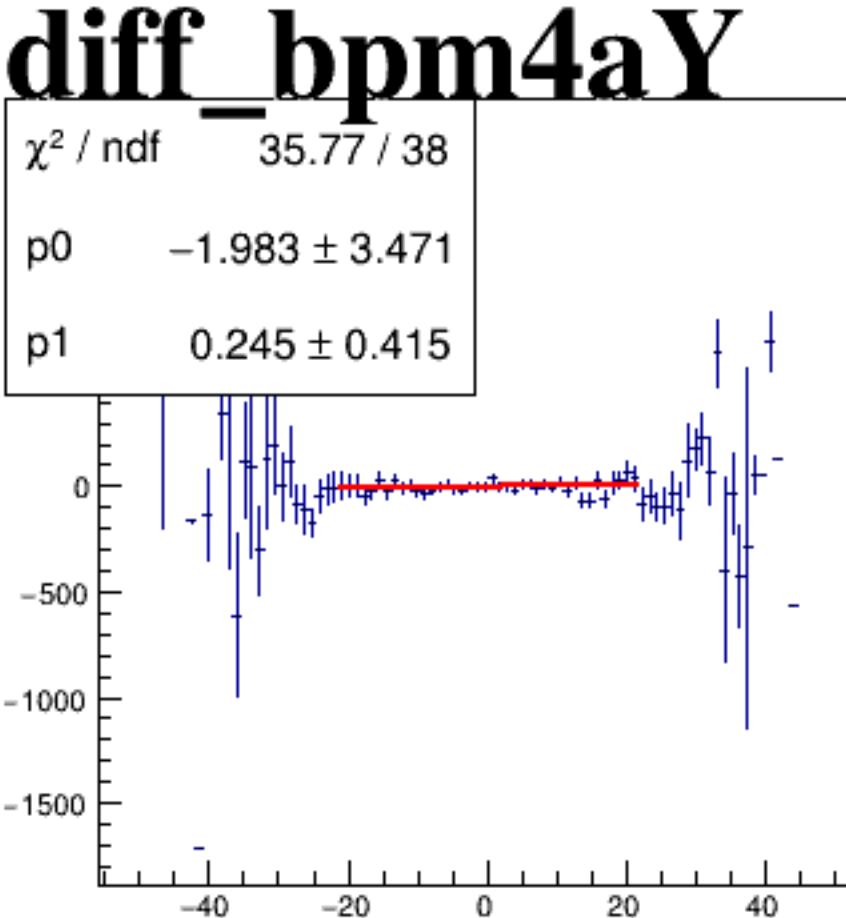
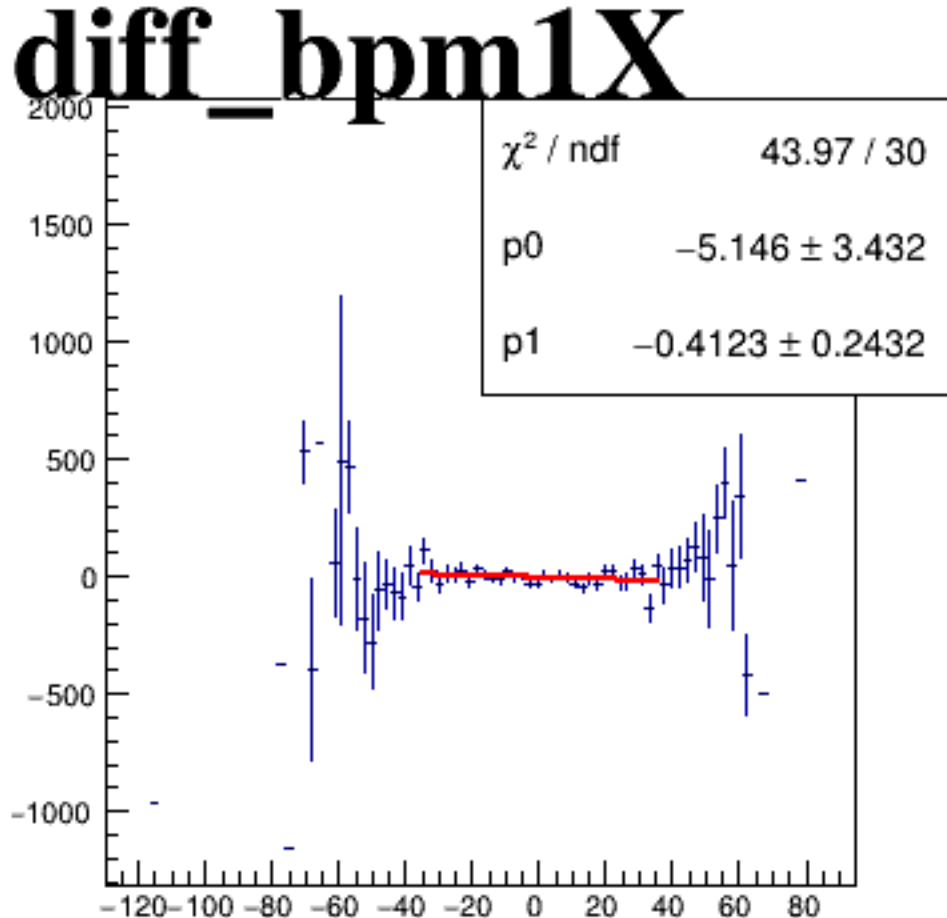
asym_sam6



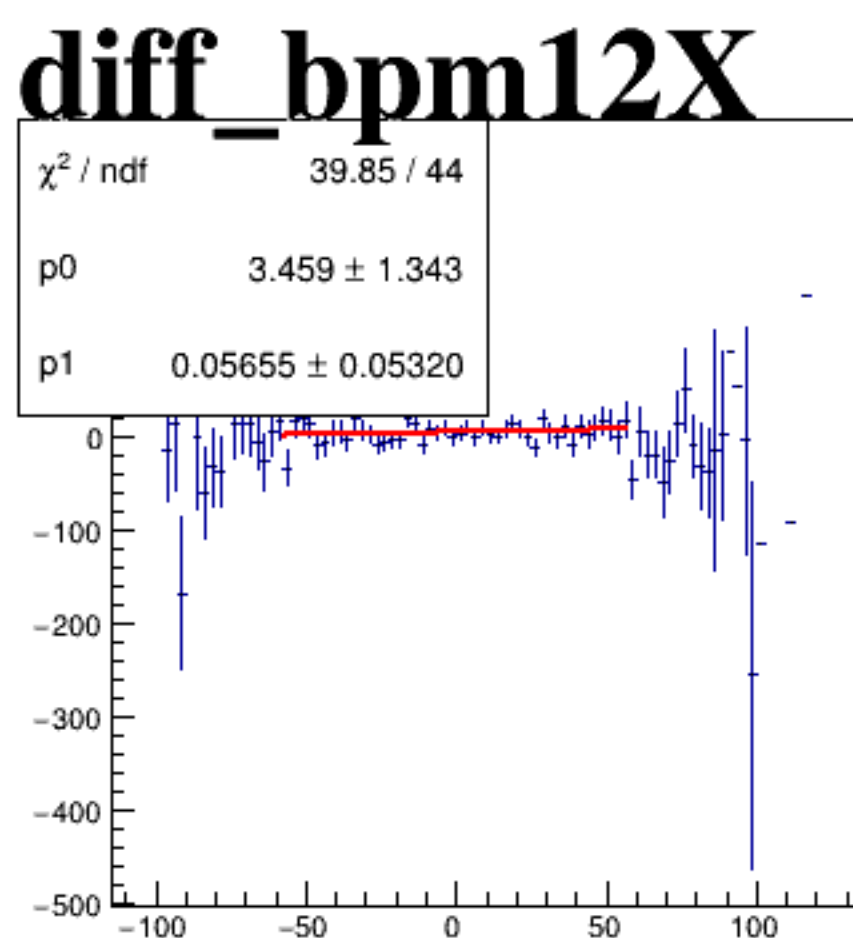
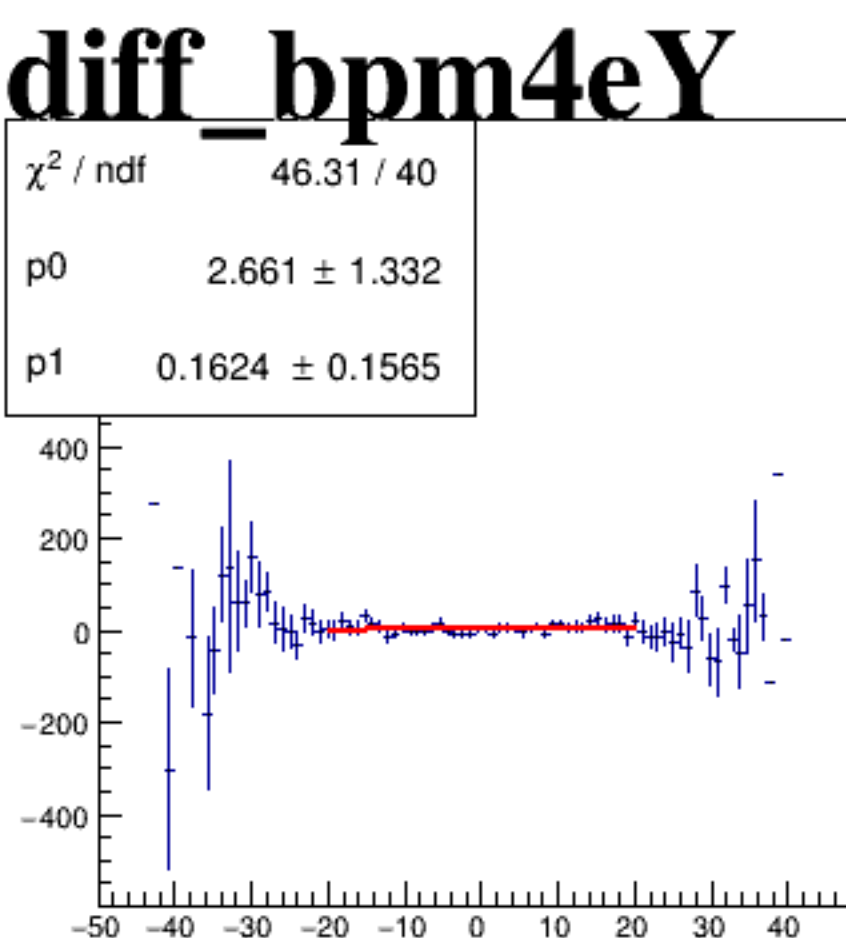
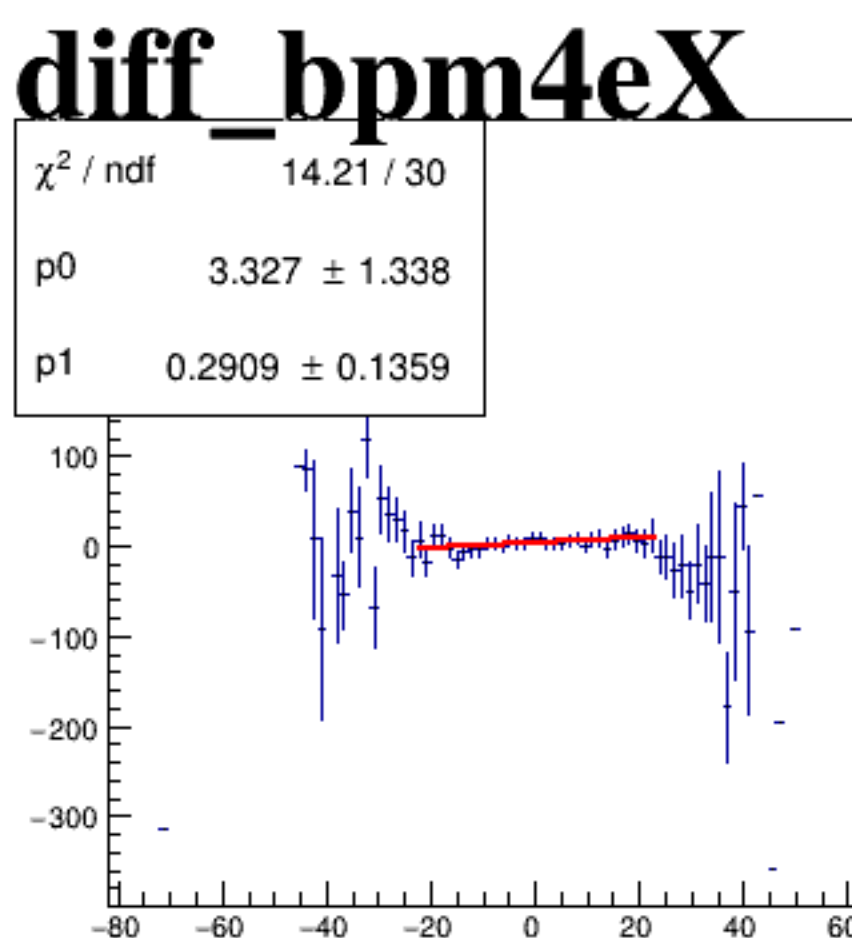
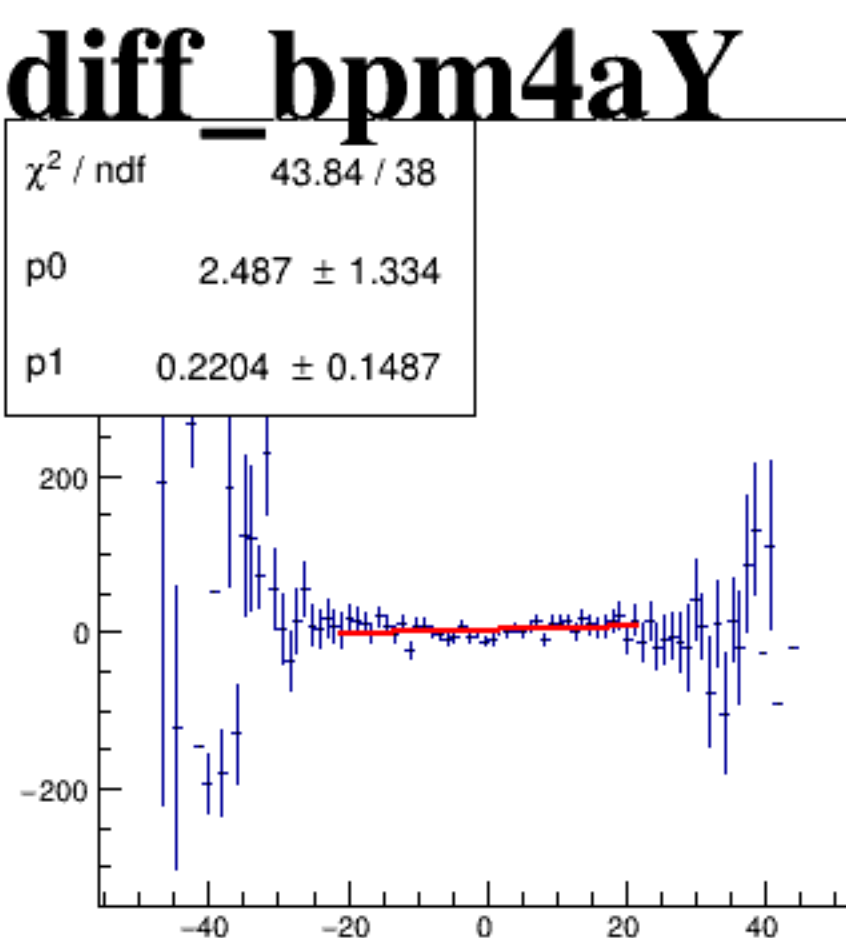
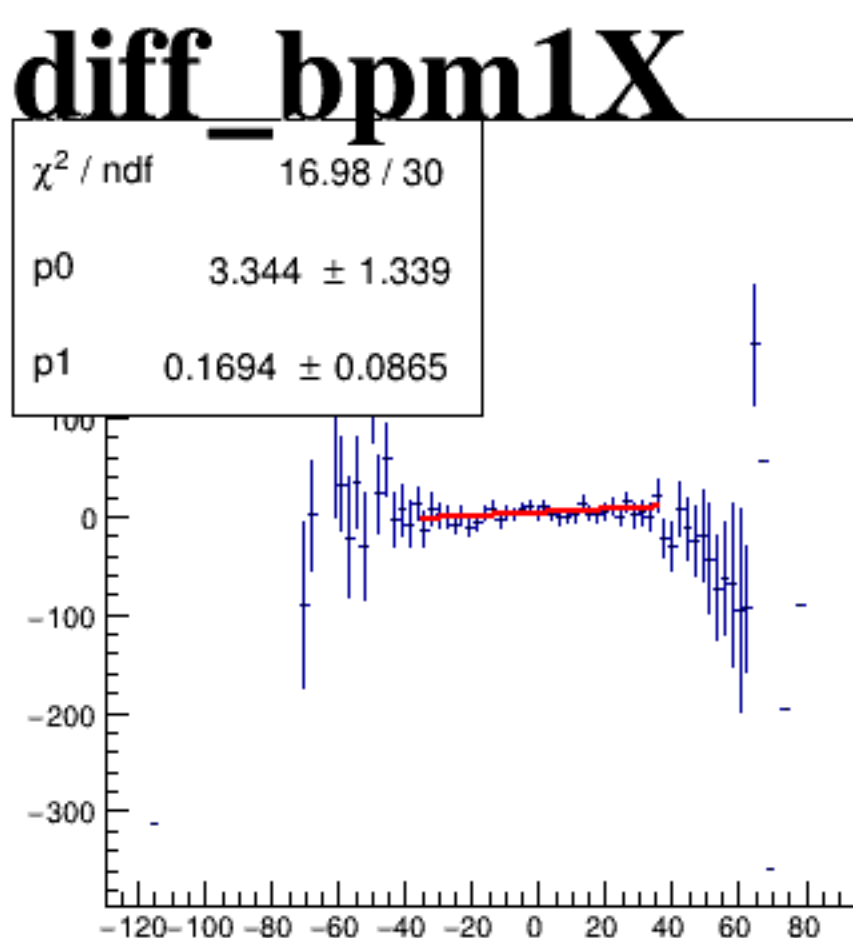
asym_sam8



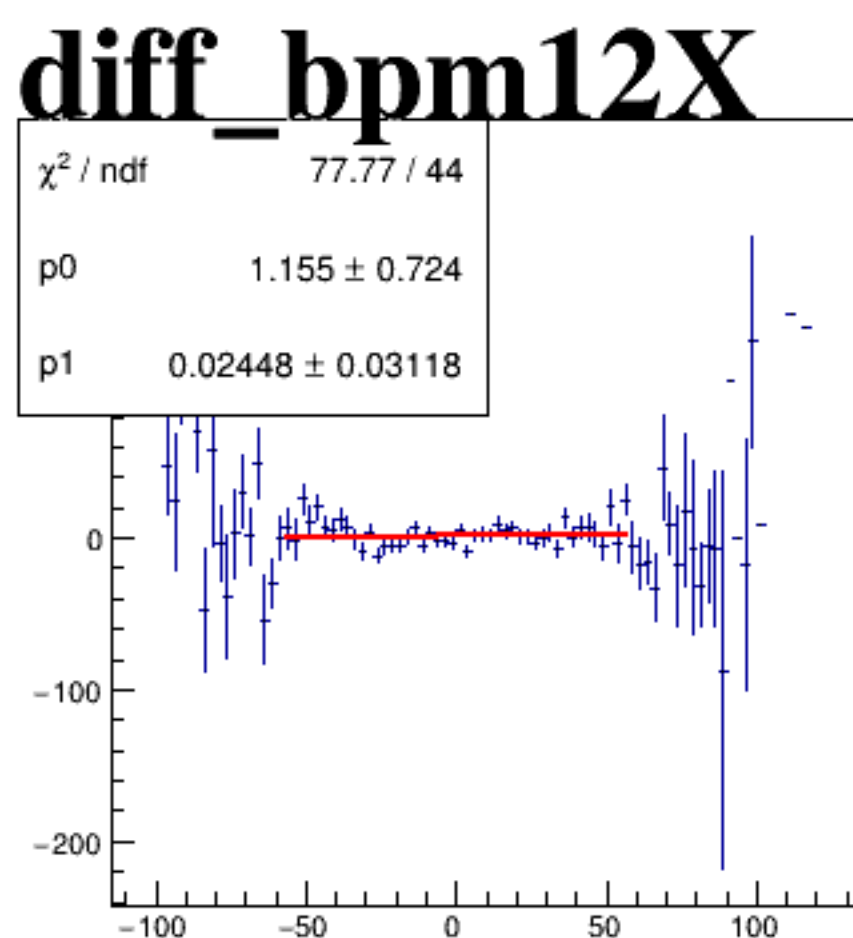
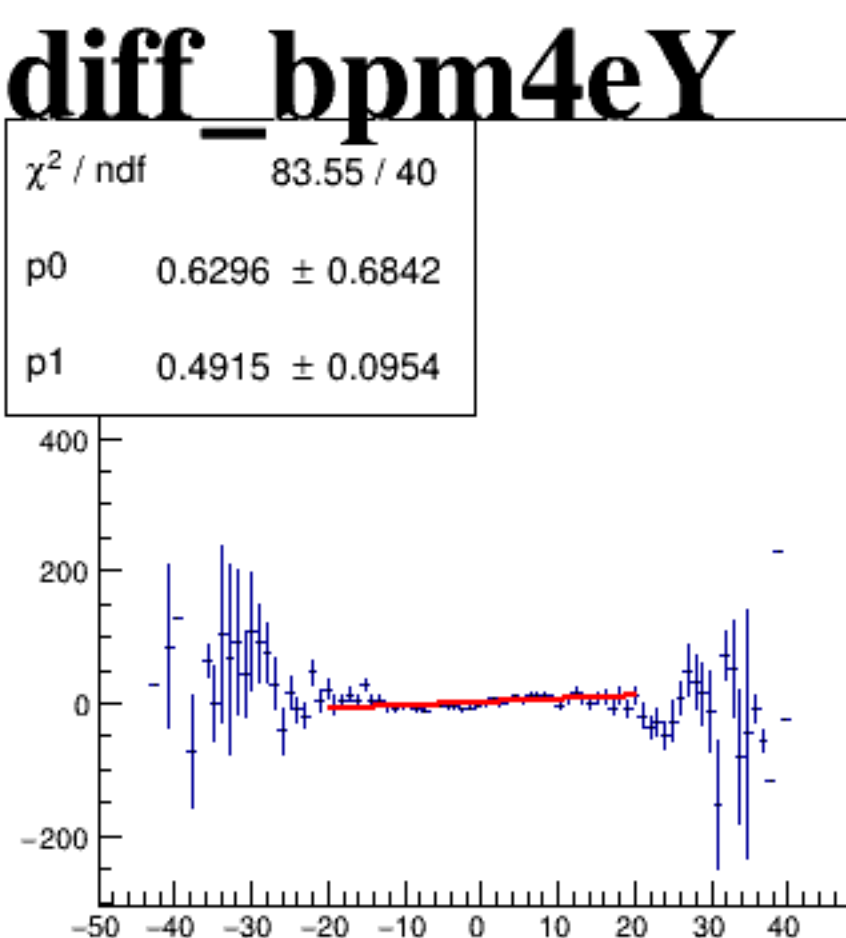
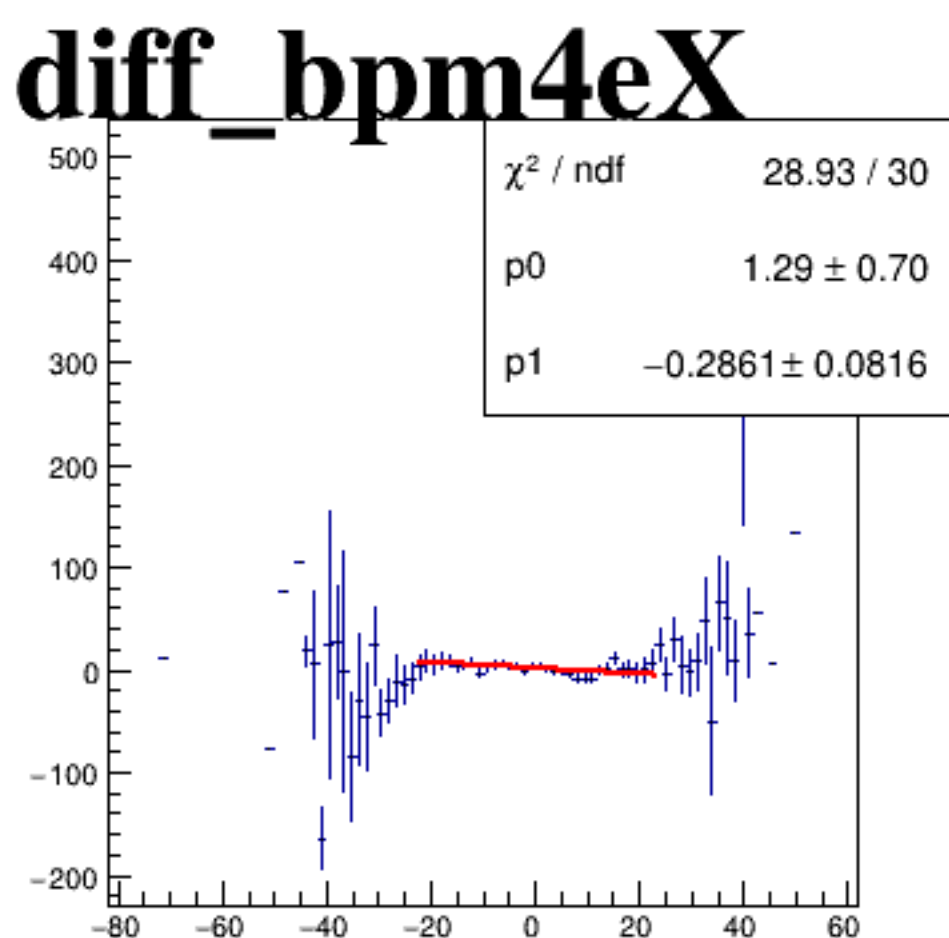
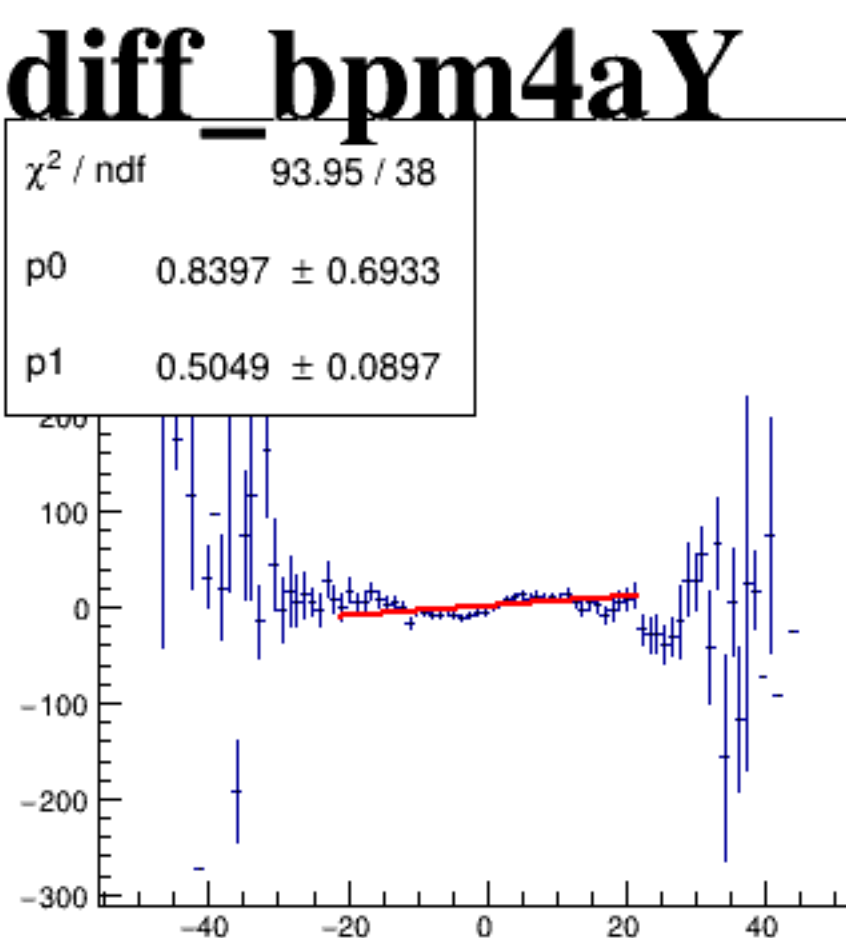
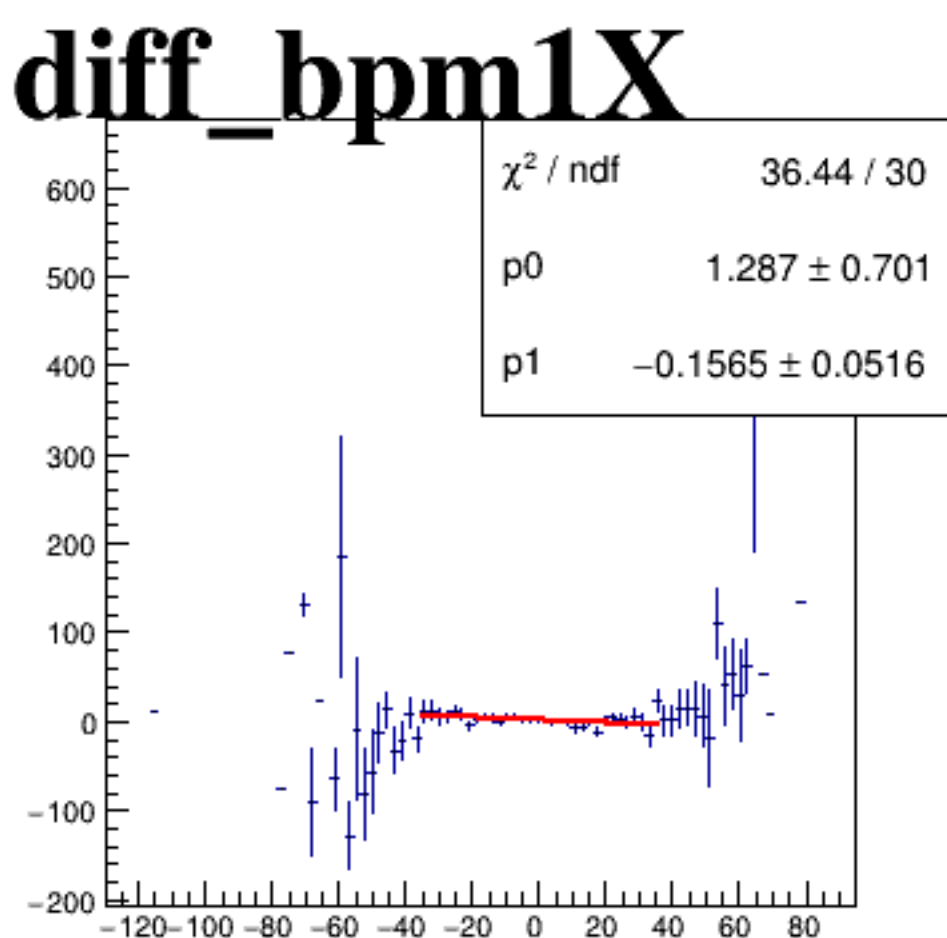
reg_asym_sam2



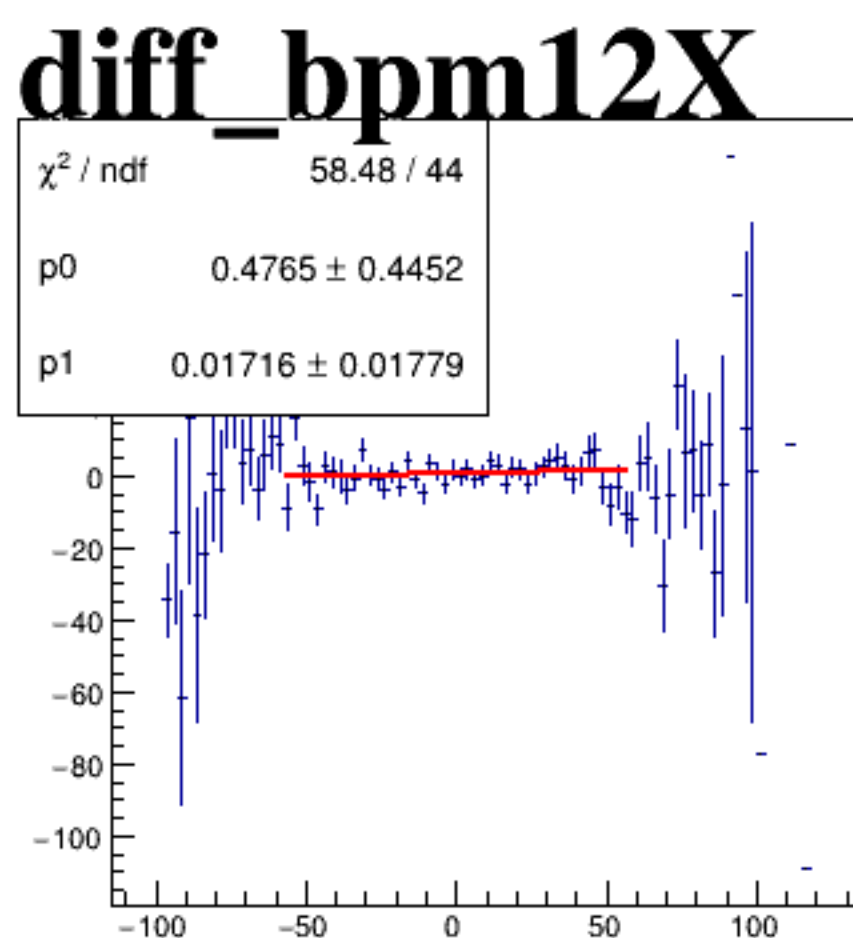
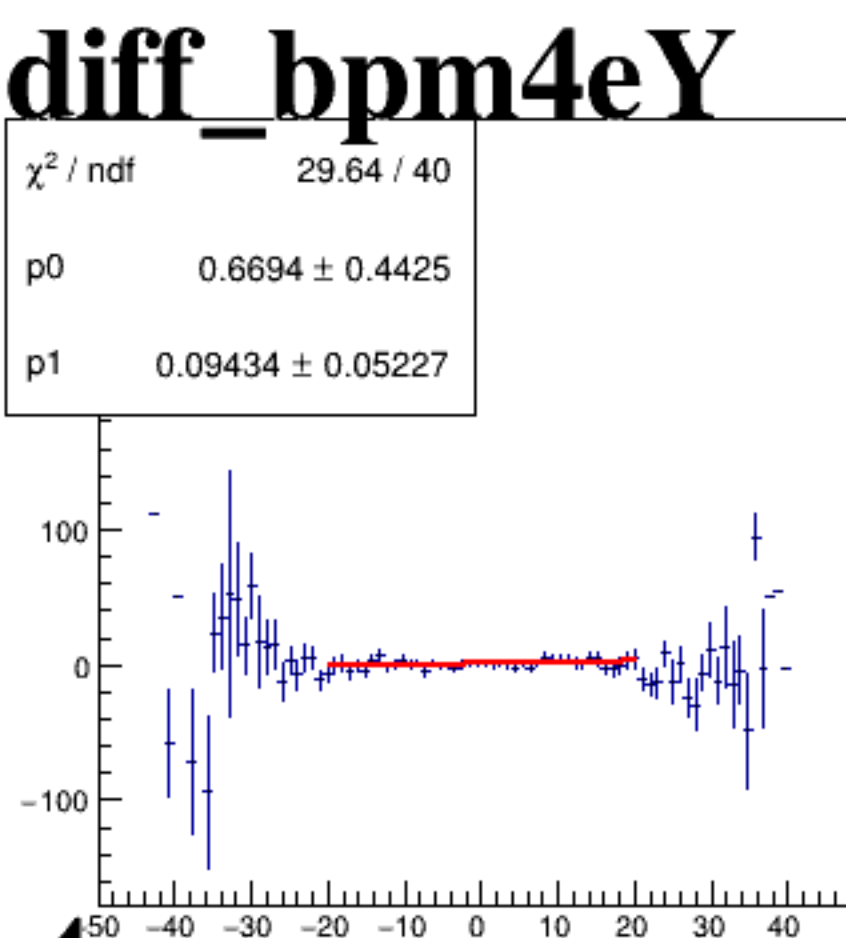
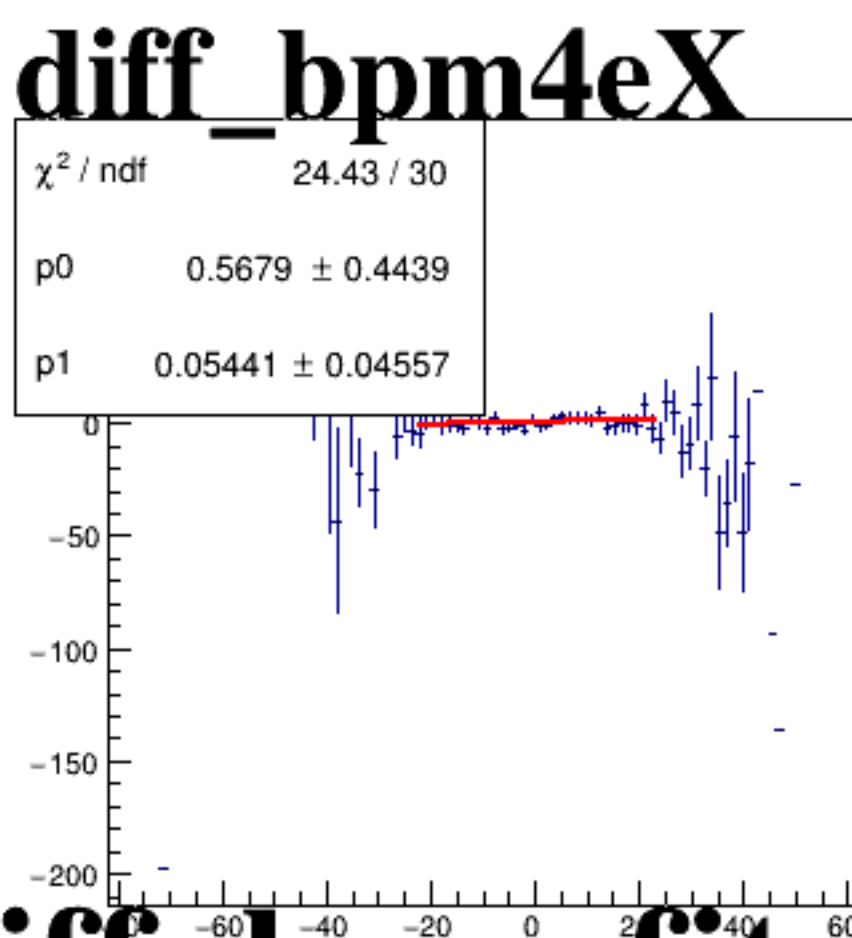
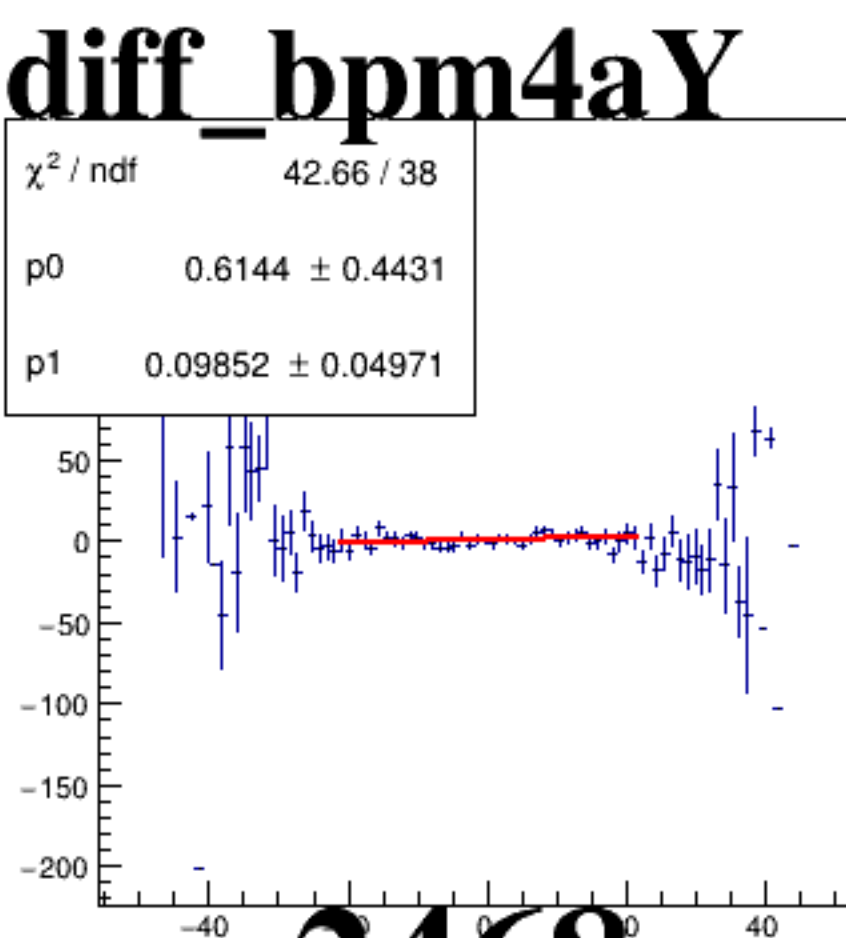
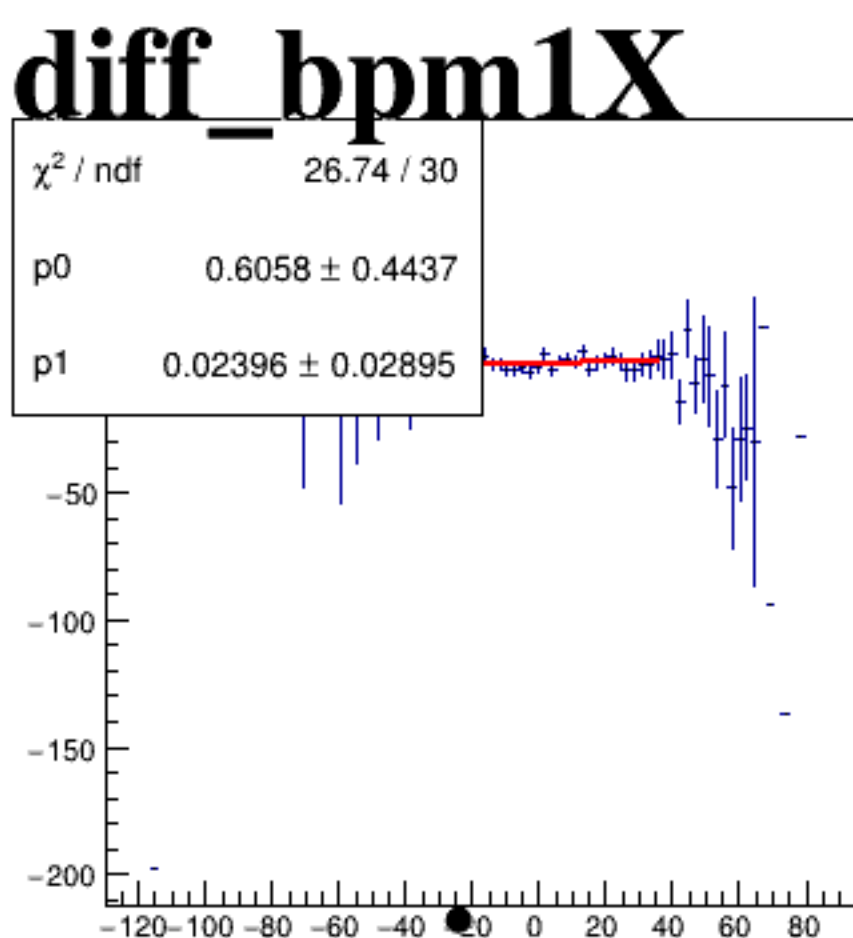
reg_asym_sam4



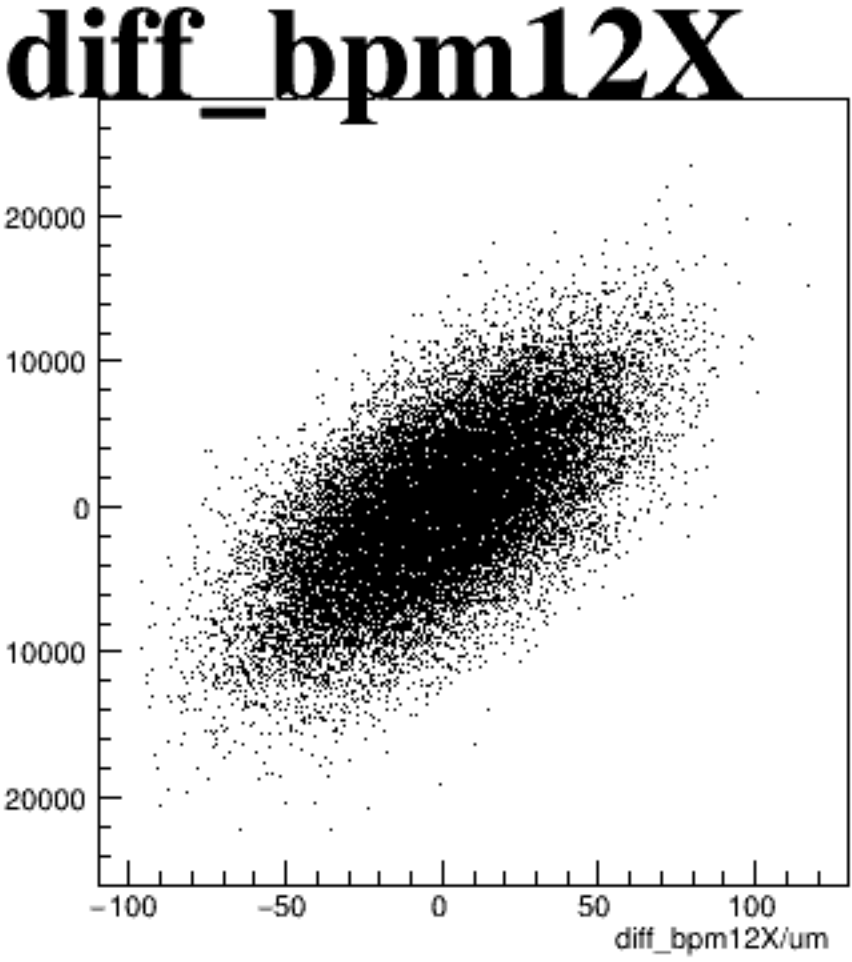
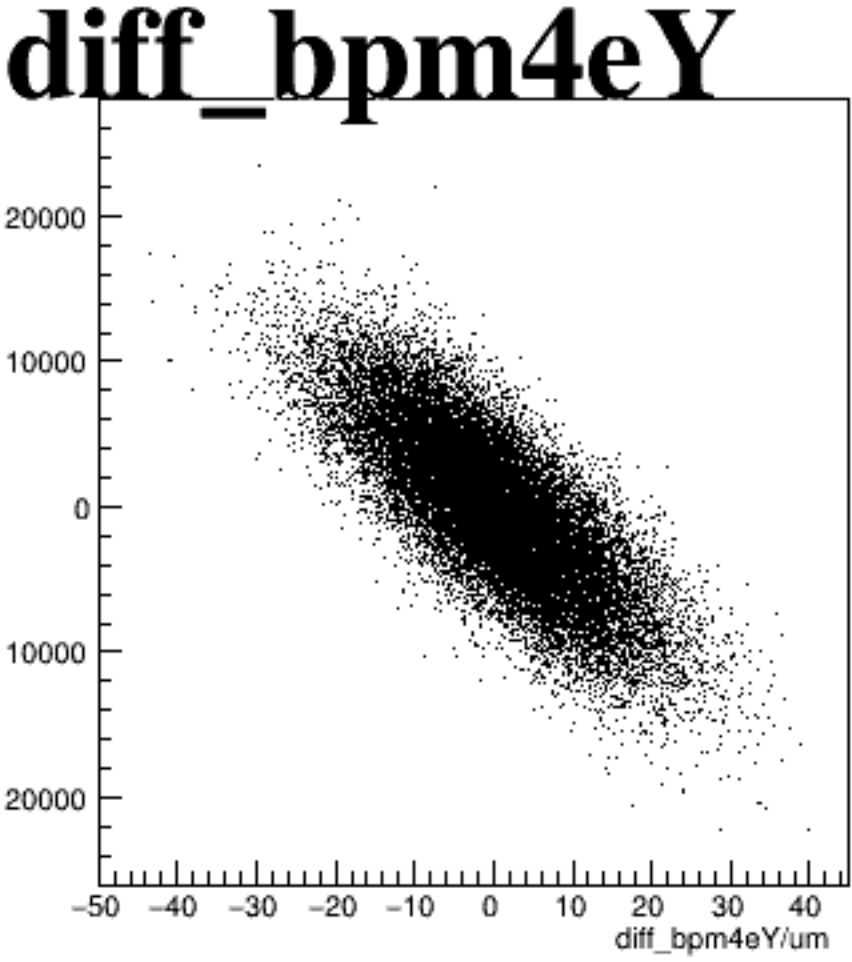
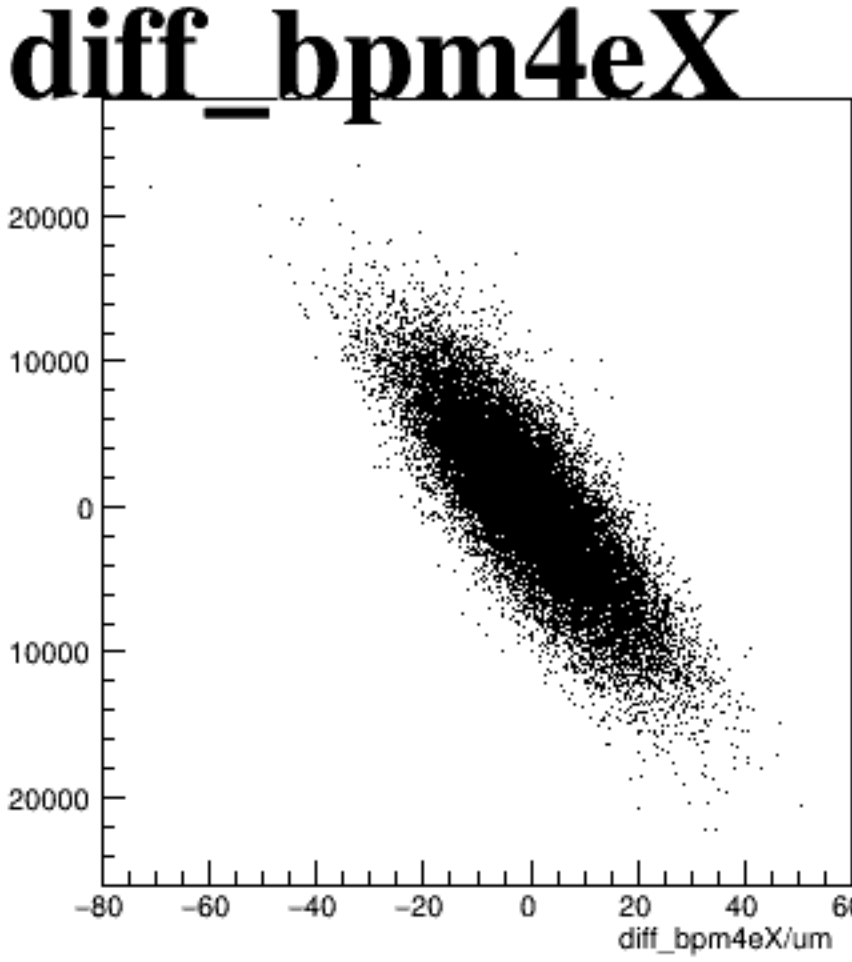
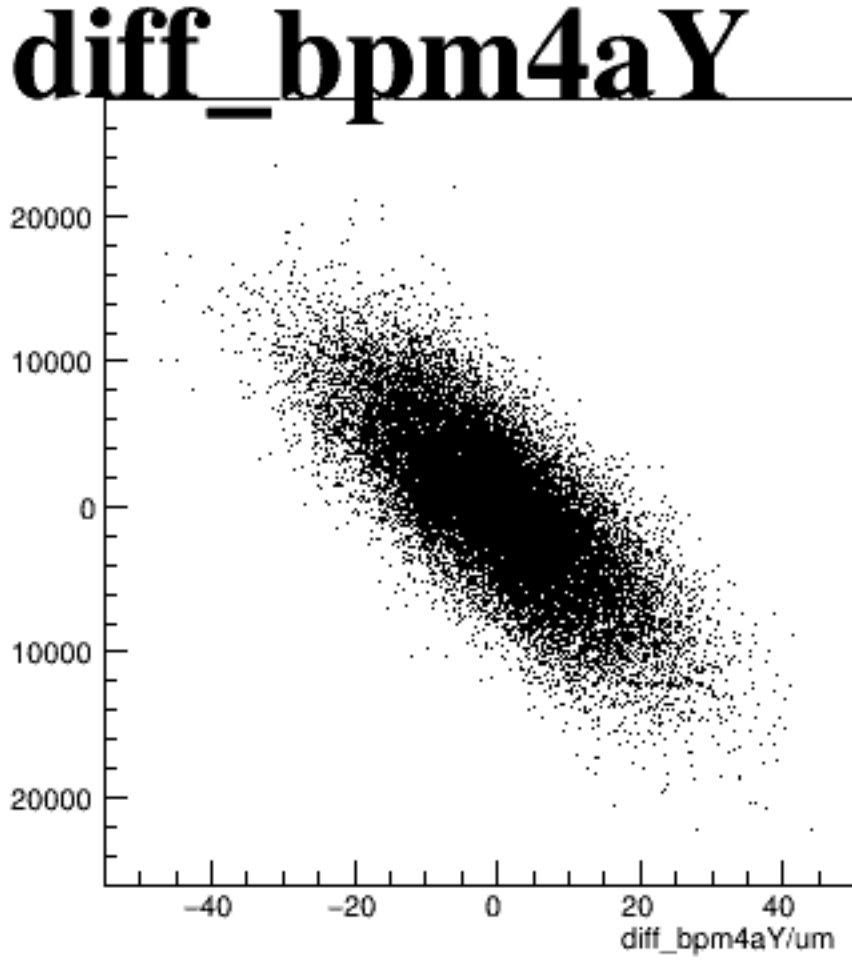
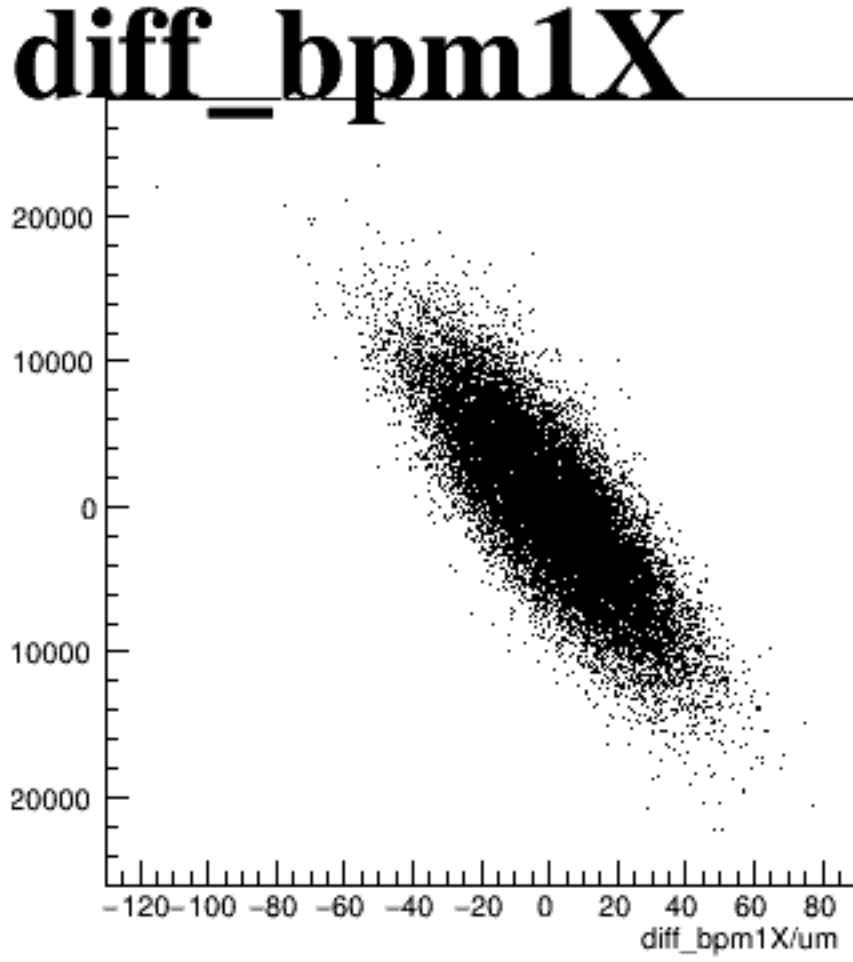
reg_asym_sam6



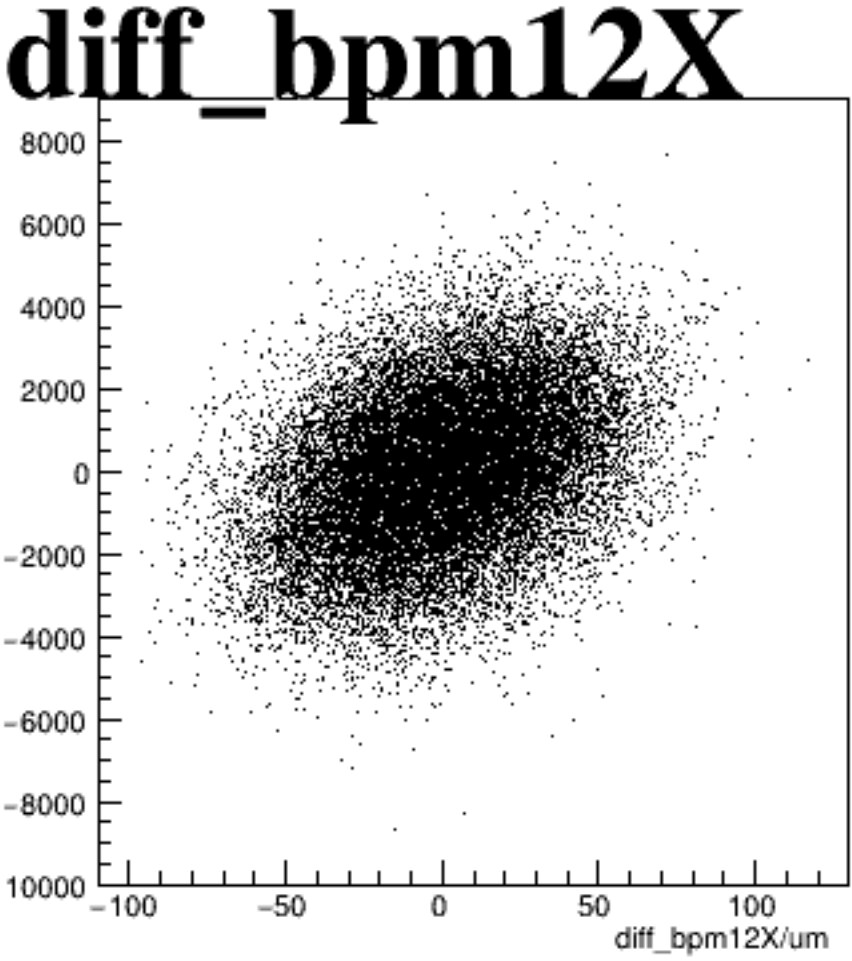
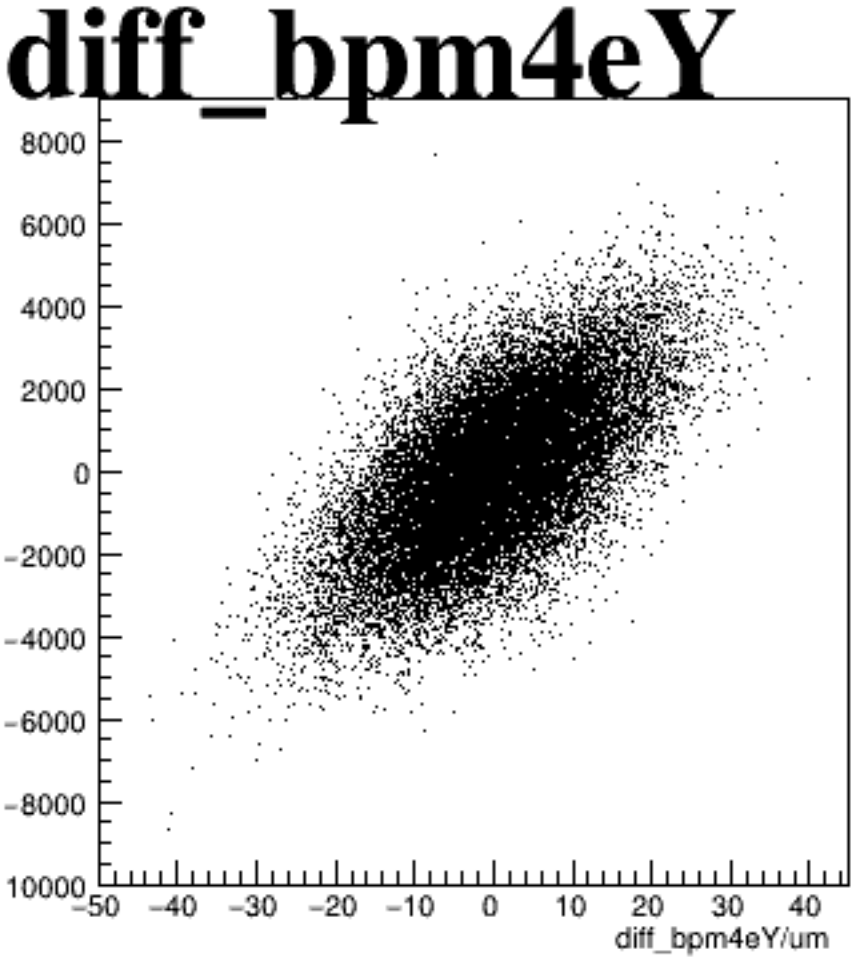
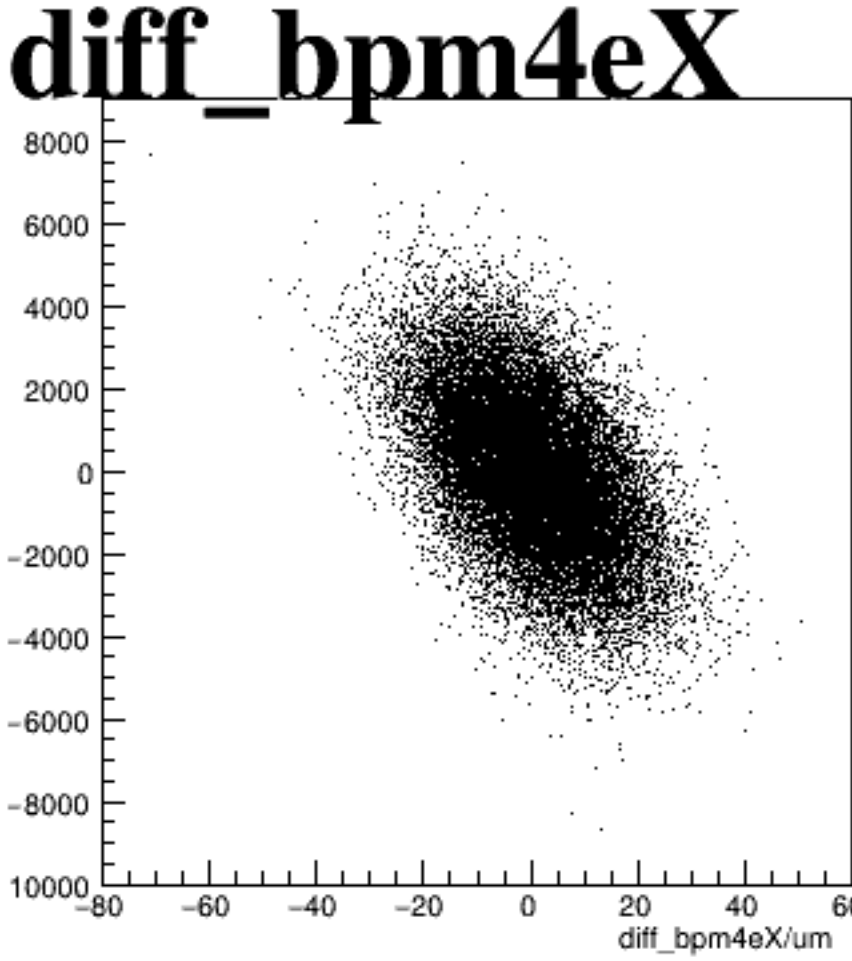
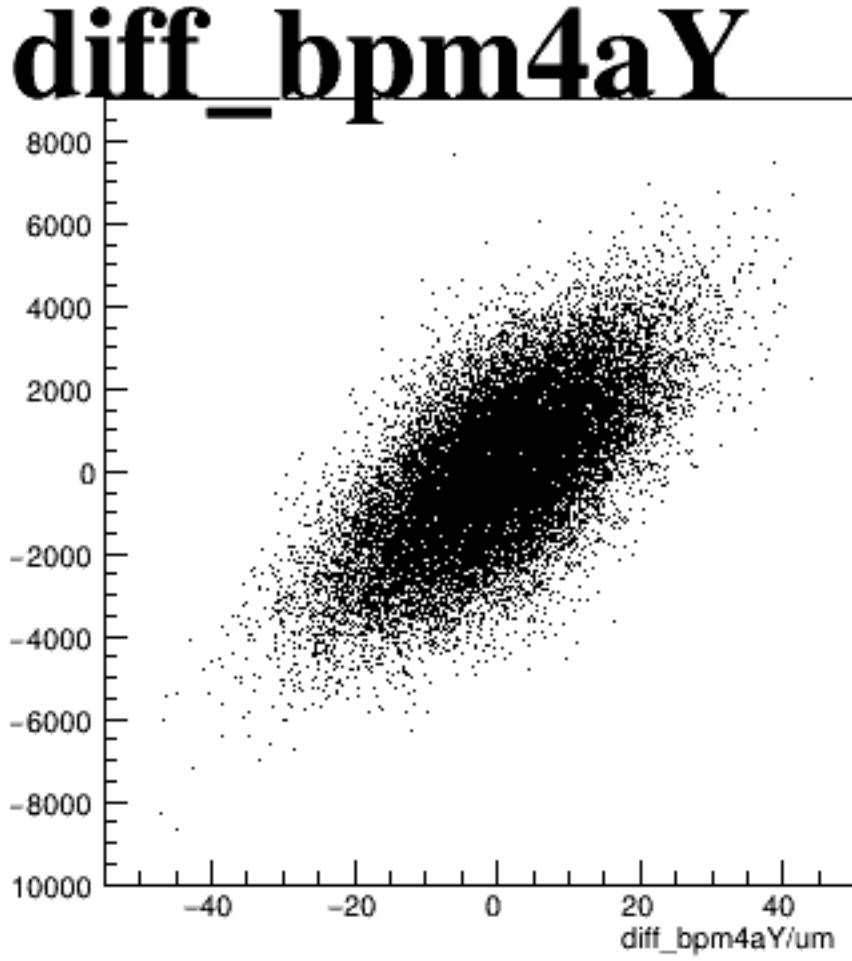
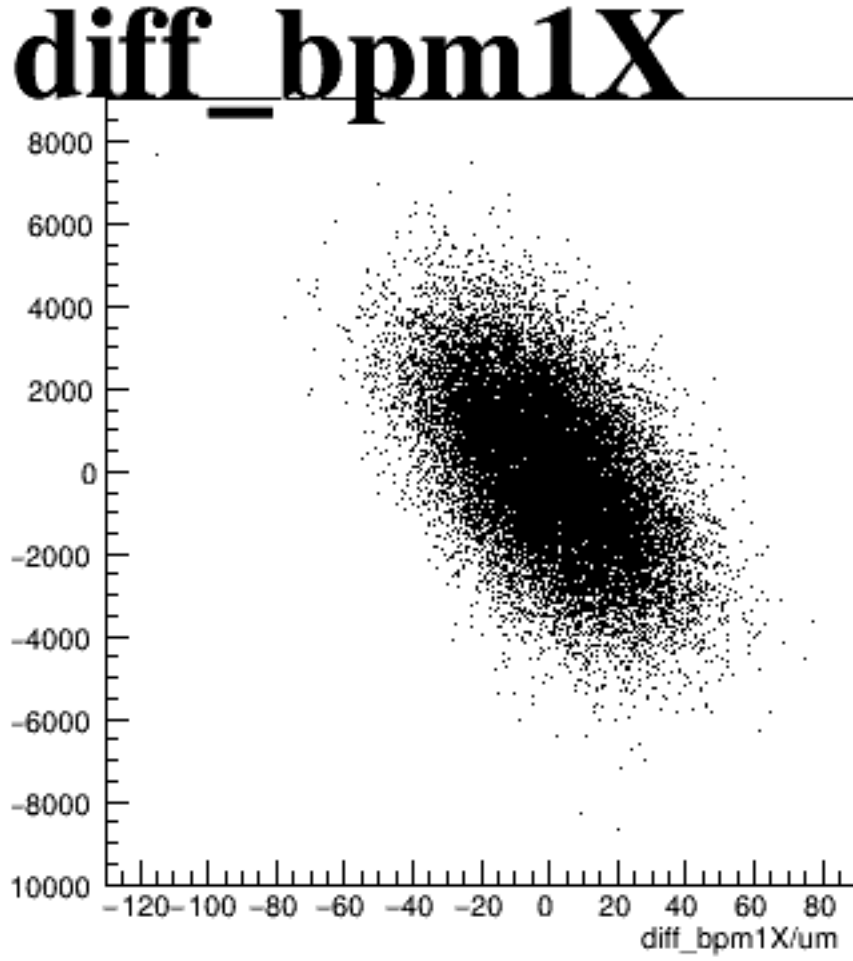
reg_asym_sam8



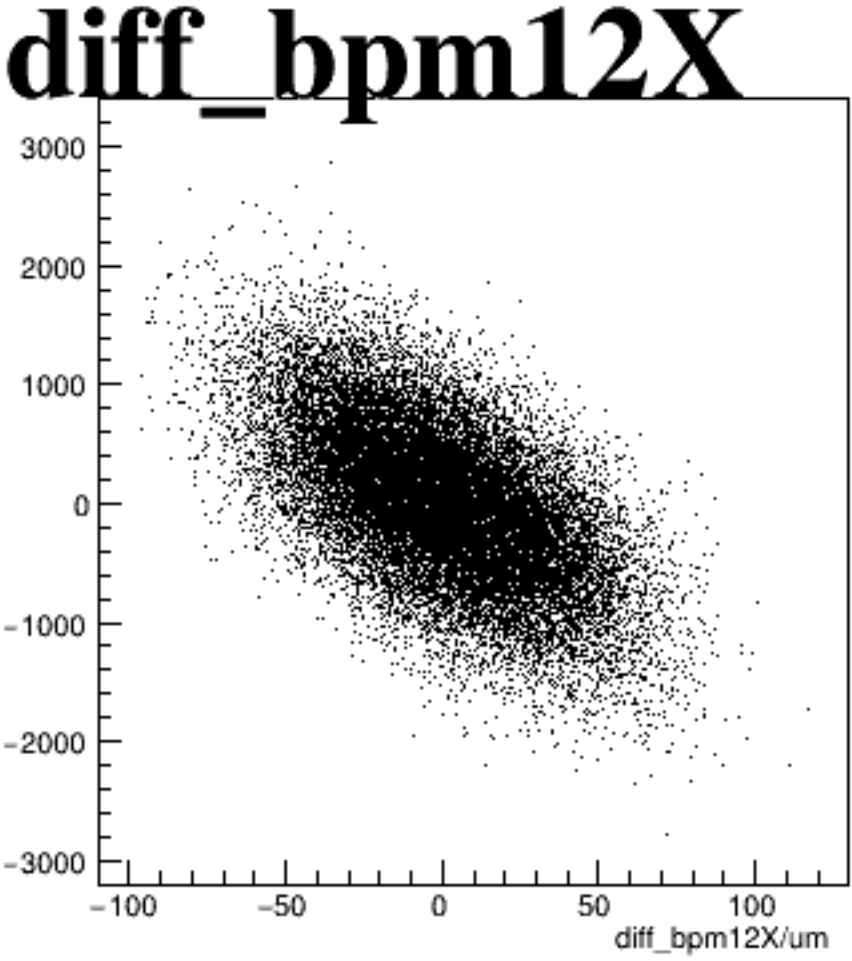
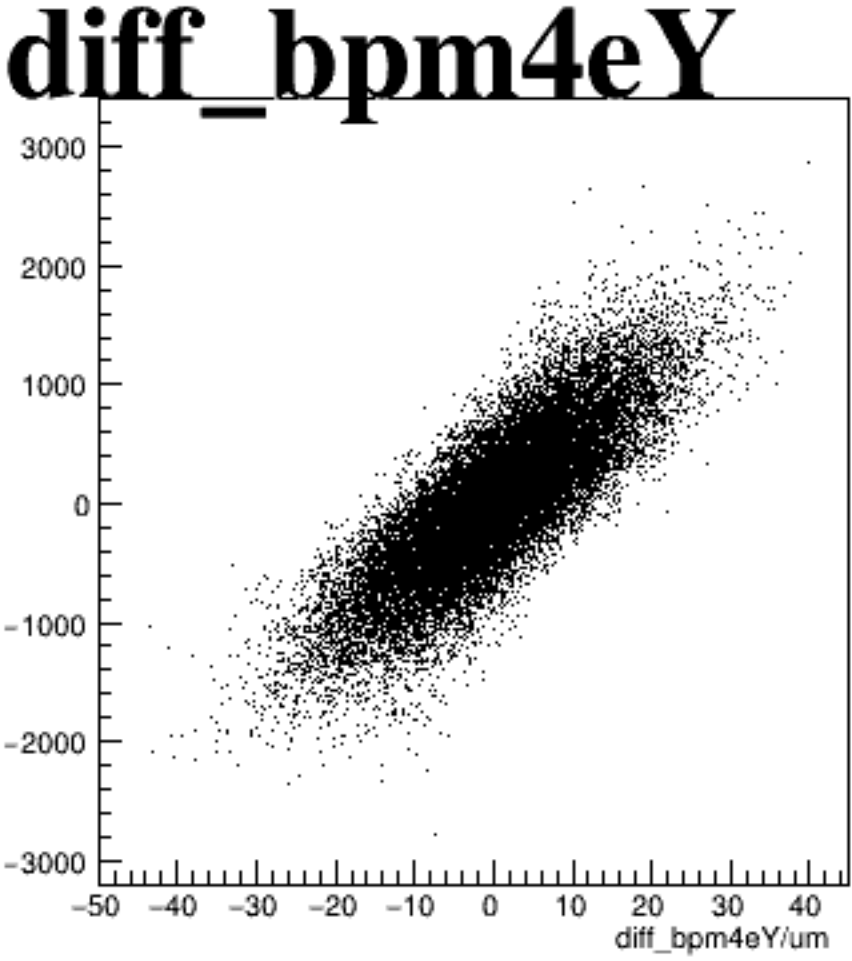
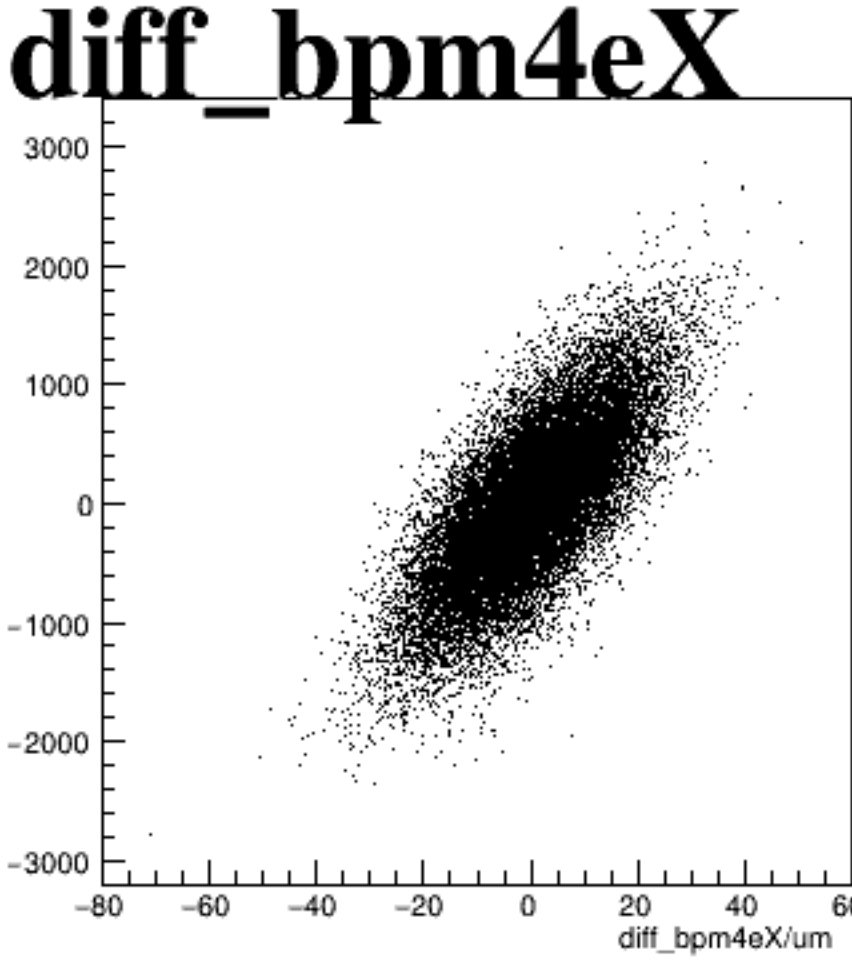
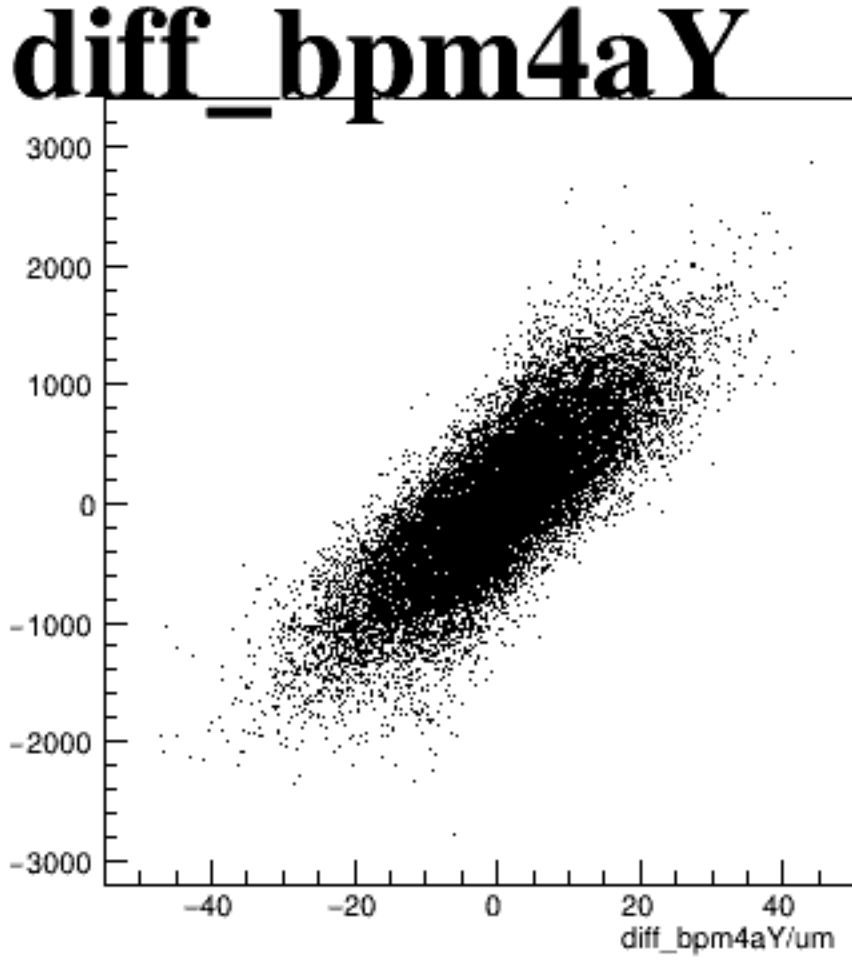
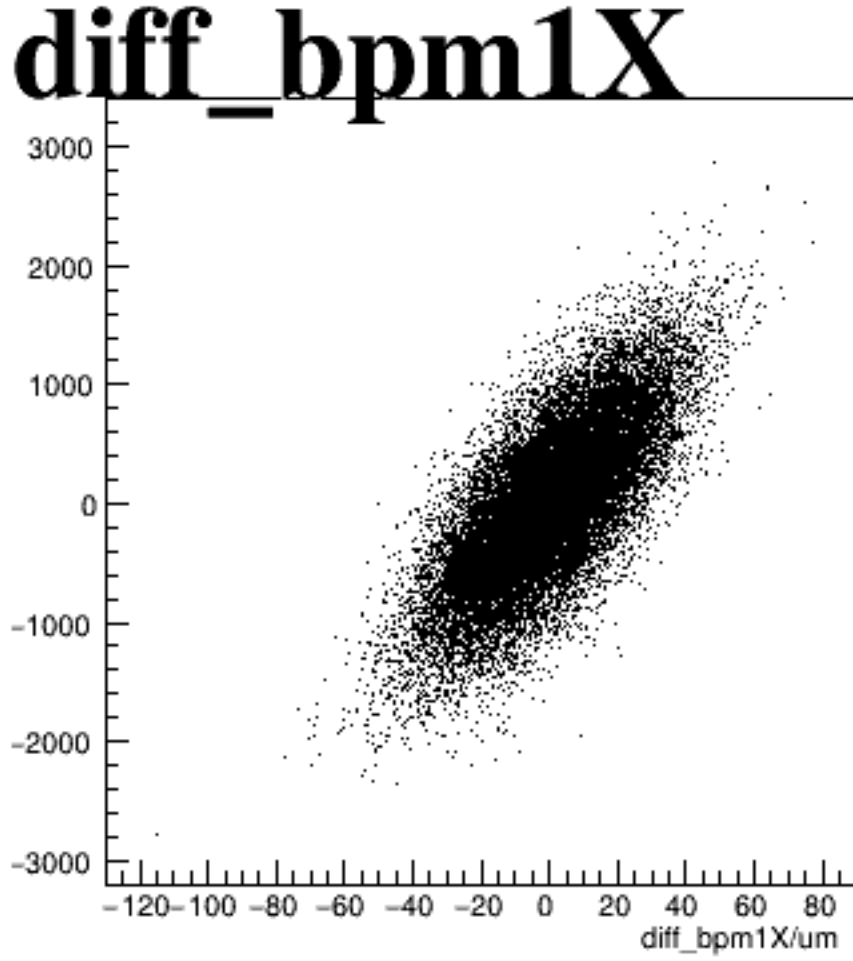
asym_sam2



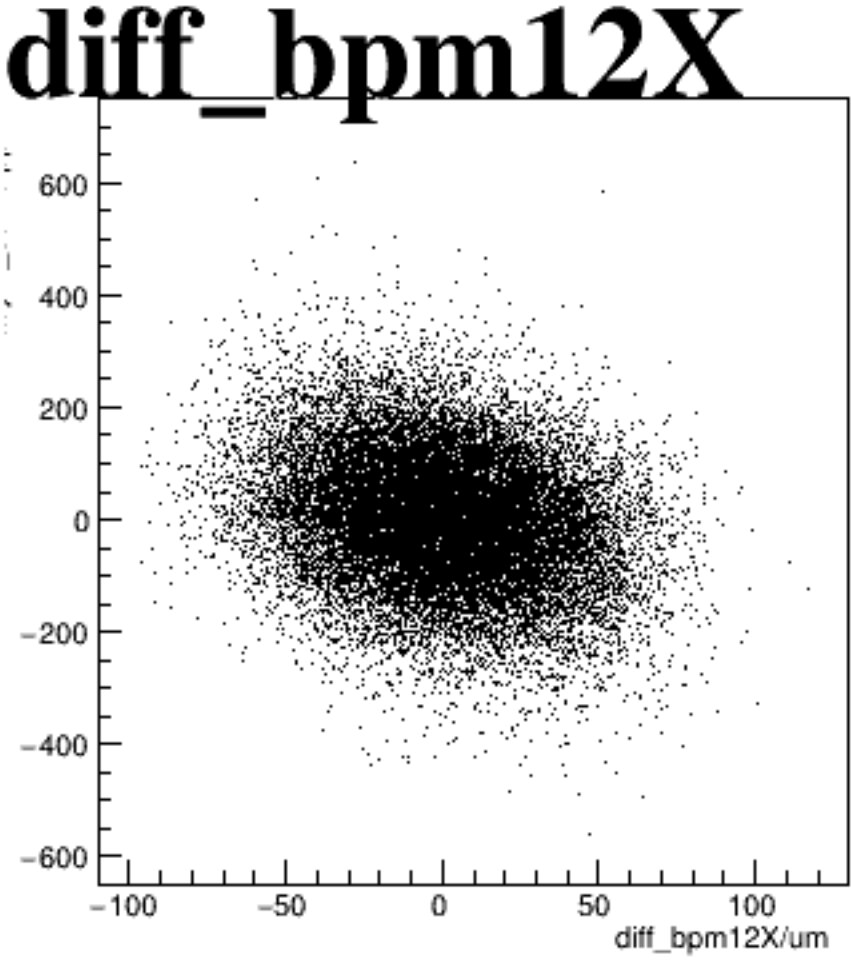
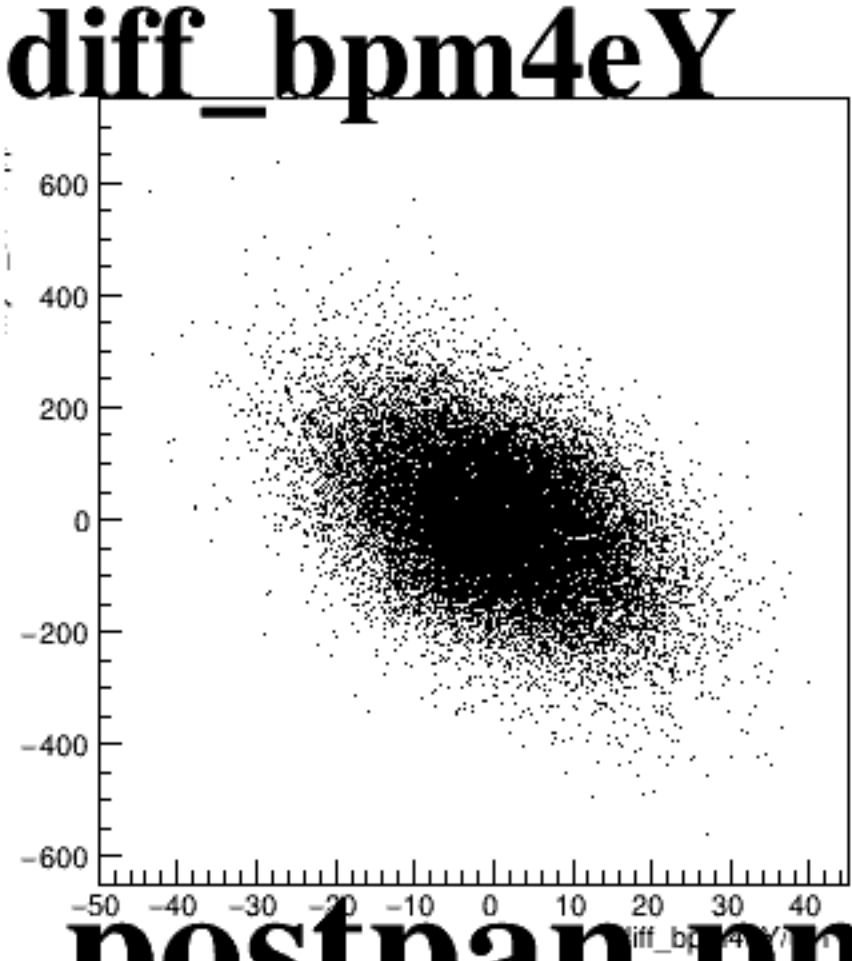
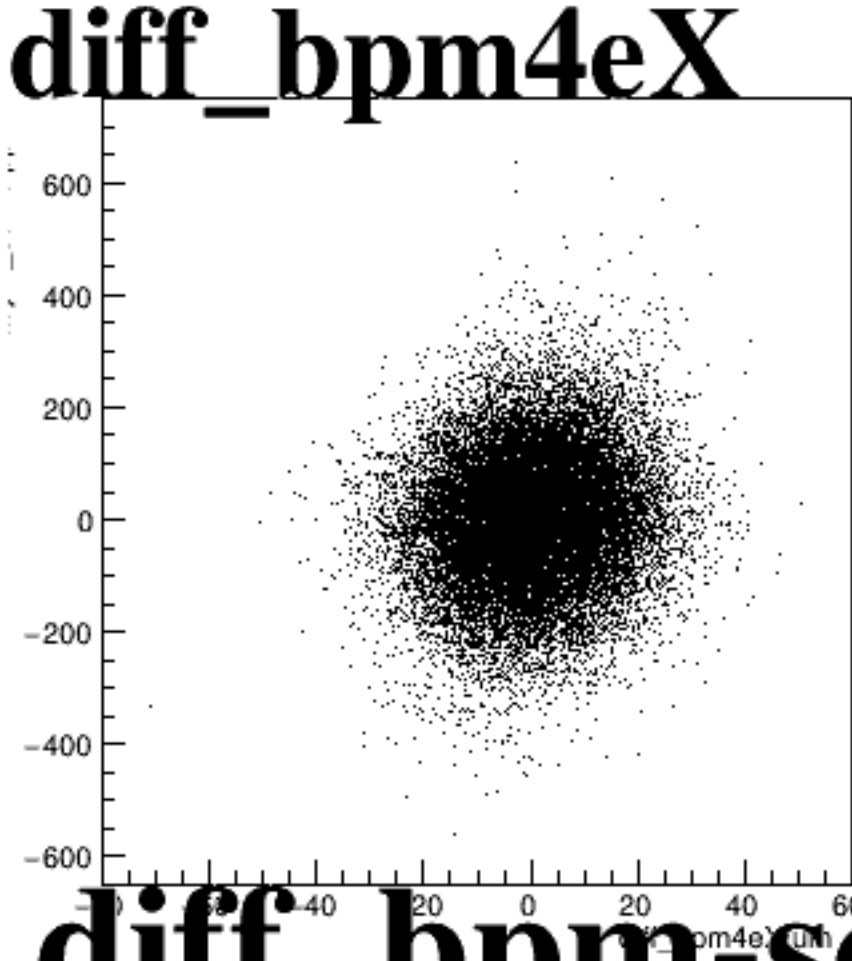
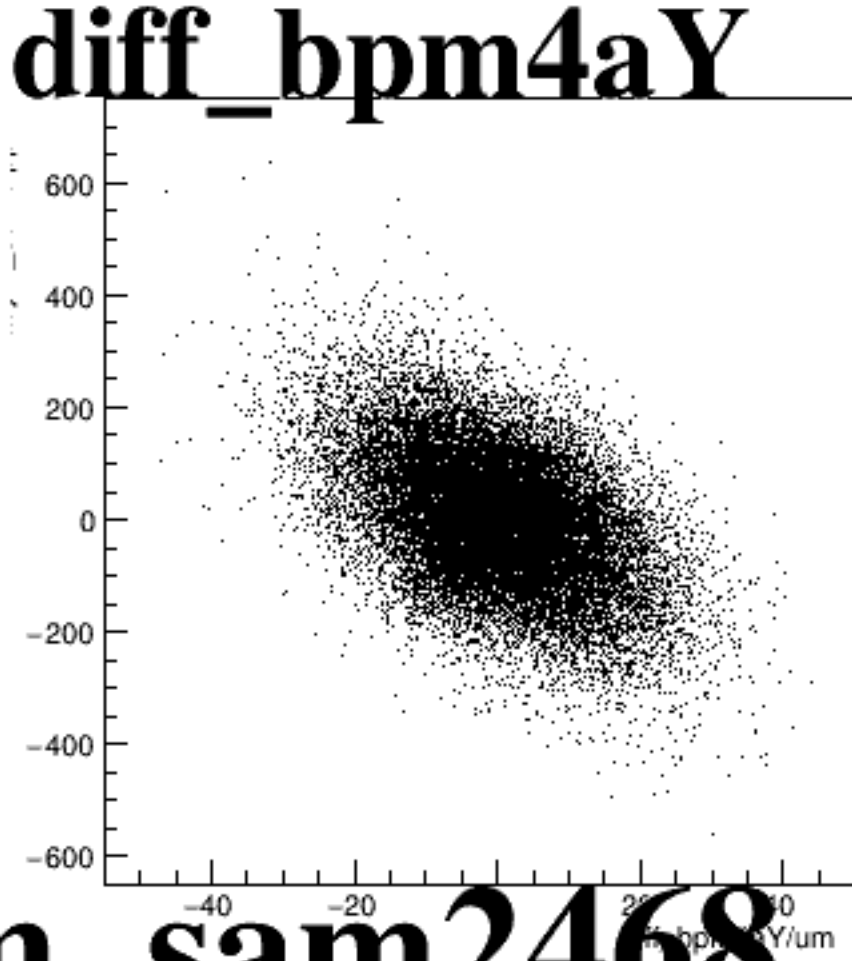
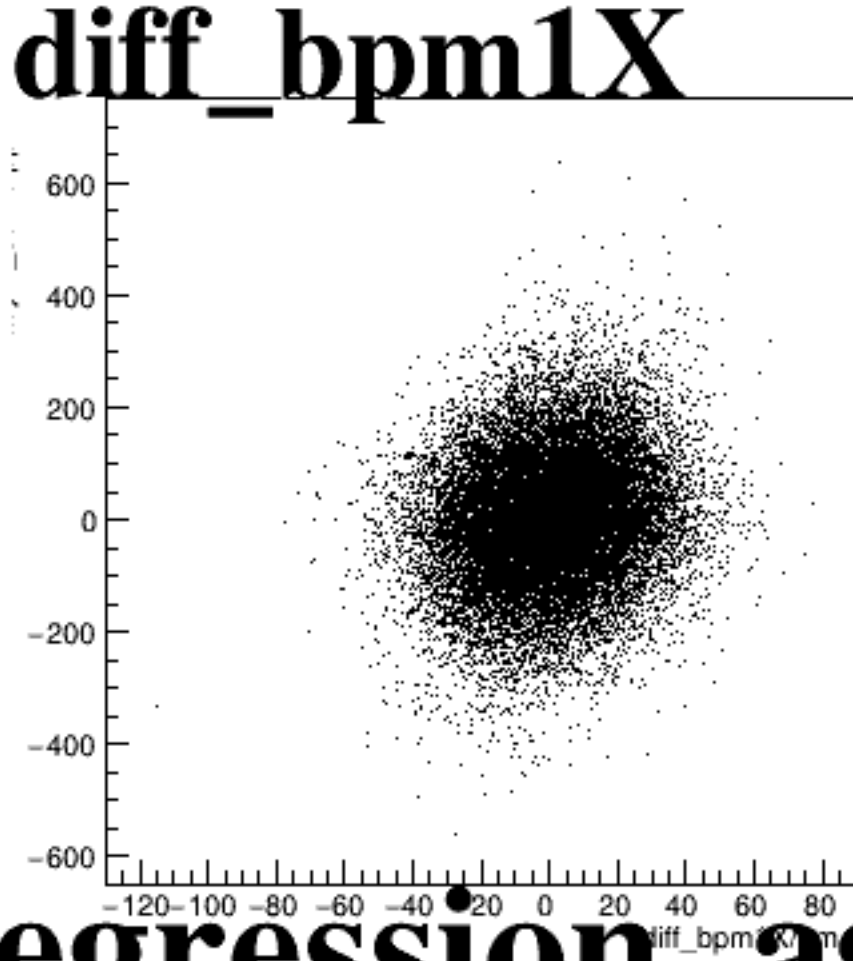
asym_sam4



asym_sam6



asym_sam8



The figure consists of five scatter plots arranged horizontally, each showing the distribution of a specific diffraction order. The plots are titled as follows:

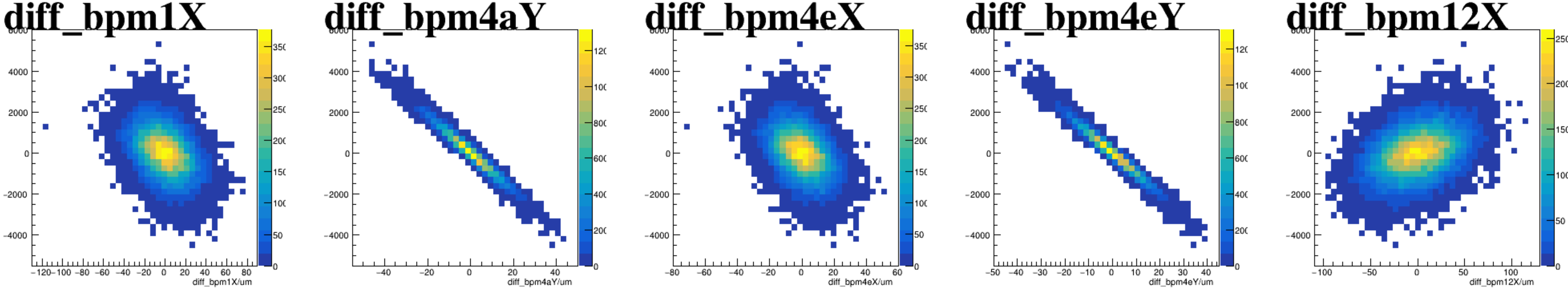
- diff_bpm1X**: The x-axis is labeled $\text{diff_bpm1X}/\mu\text{m}$ and ranges from -120 to 80. The y-axis ranges from -4000 to 5000.
- diff_bpm4aY**: The x-axis is labeled $\text{diff_bpm4aY}/\mu\text{m}$ and ranges from -40 to 40. The y-axis ranges from -4000 to 5000.
- diff_bpm4eX**: The x-axis is labeled $\text{diff_bpm4eX}/\mu\text{m}$ and ranges from -80 to 60. The y-axis ranges from -4000 to 5000.
- diff_bpm4eY**: The x-axis is labeled $\text{diff_bpm4eY}/\mu\text{m}$ and ranges from -50 to 40. The y-axis ranges from -4000 to 5000.
- diff_bpm12X**: The x-axis is labeled $\text{diff_bpm12X}/\mu\text{m}$ and ranges from -100 to 100. The y-axis ranges from -4000 to 5000.

In all plots, the data points form a dense, roughly elliptical central cluster centered near the origin of the x-axis, with a long tail extending towards positive x-values. The density of points is highest in the center and decreases as they move away from the origin.

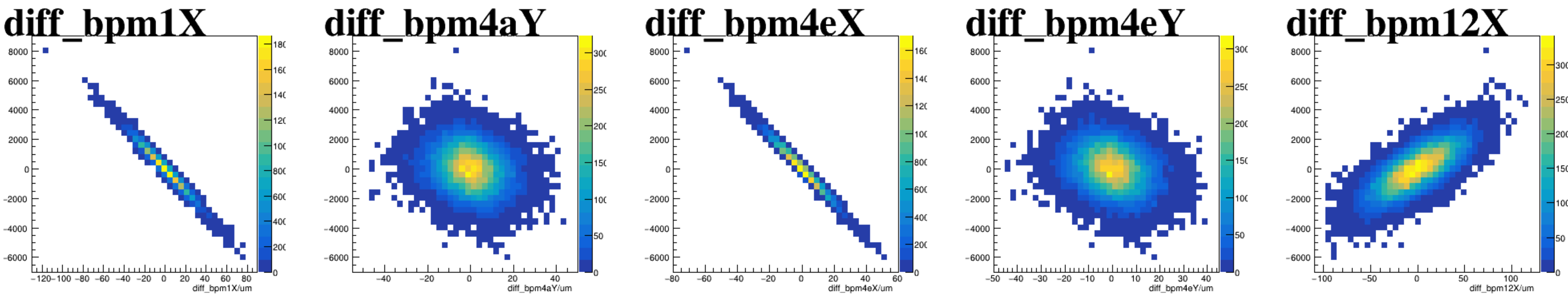
The figure consists of five scatter plots arranged horizontally, each showing the difference in position between two beam position monitors (BPMs). The y-axis for all plots is labeled 'diff_bpmX/um' and ranges from -1000 to 1000. The x-axis for all plots is labeled 'diff_bpmY/um' and ranges from -120 to 80. The plots are titled as follows:

- diff_bpm1X**: Shows the difference between BPM1 and BPM4a. The data points are centered around zero difference.
- diff_bpm4aY**: Shows the difference between BPM4a and BPM4e. The data points are centered around zero difference.
- diff_bpm4eX**: Shows the difference between BPM4e and BPM12. The data points are centered around zero difference.
- diff_bpm4eY**: Shows the difference between BPM4e and BPM12. The data points are centered around zero difference.
- diff_bpm12X**: Shows the difference between BPM12 and BPM4a. The data points are centered around zero difference.

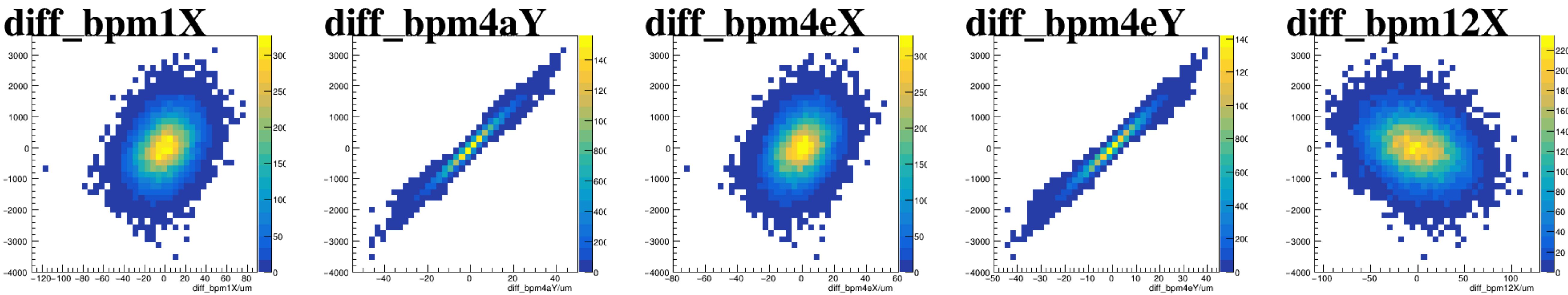
asym_sam1



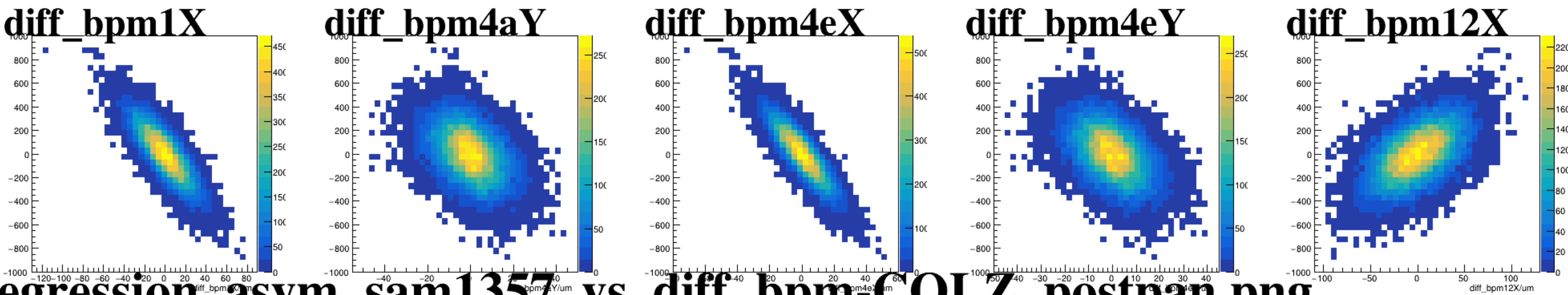
asym_sam3



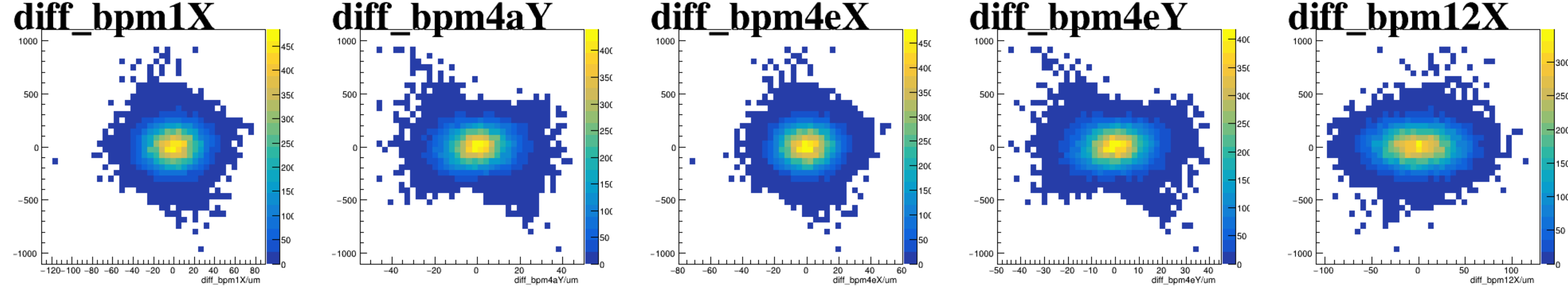
asym_sam5



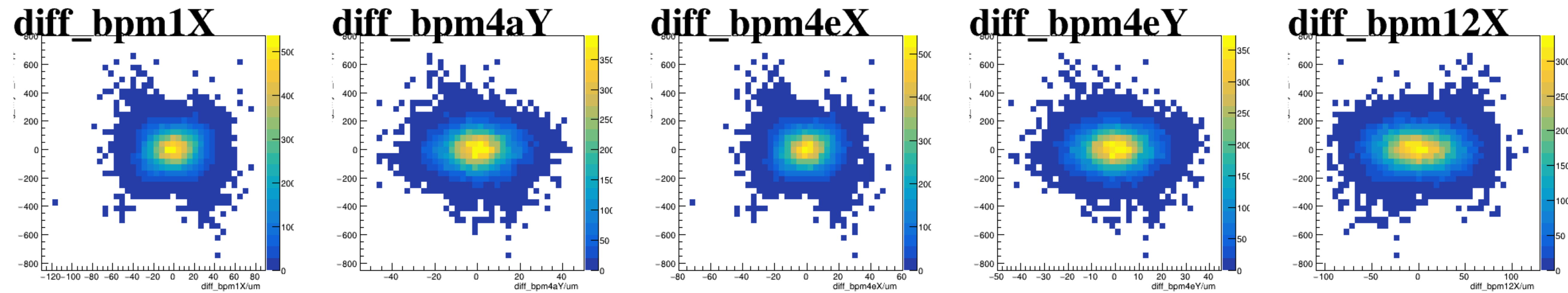
asym_sam7



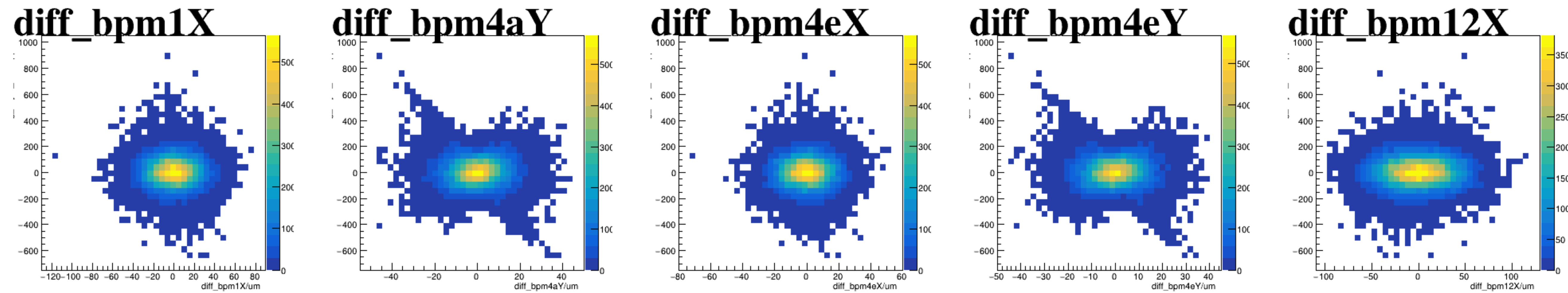
reg_asym_sam1



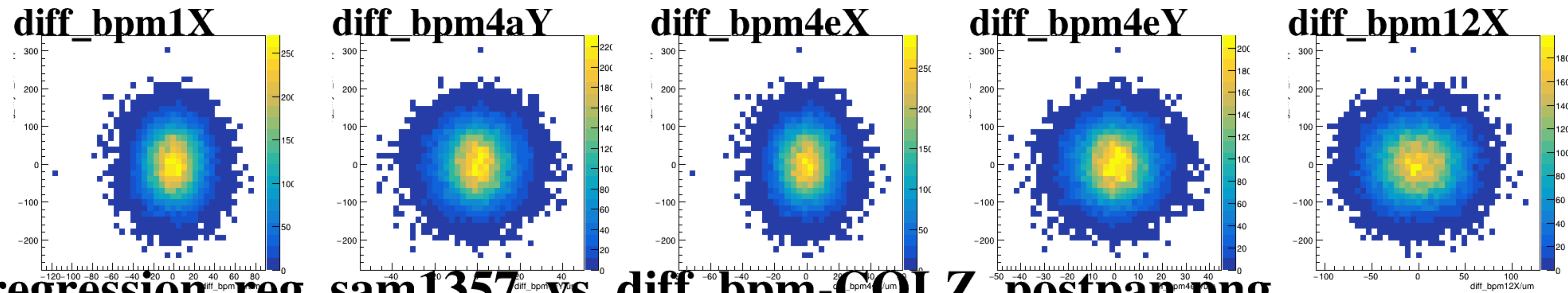
reg_asym_sam3



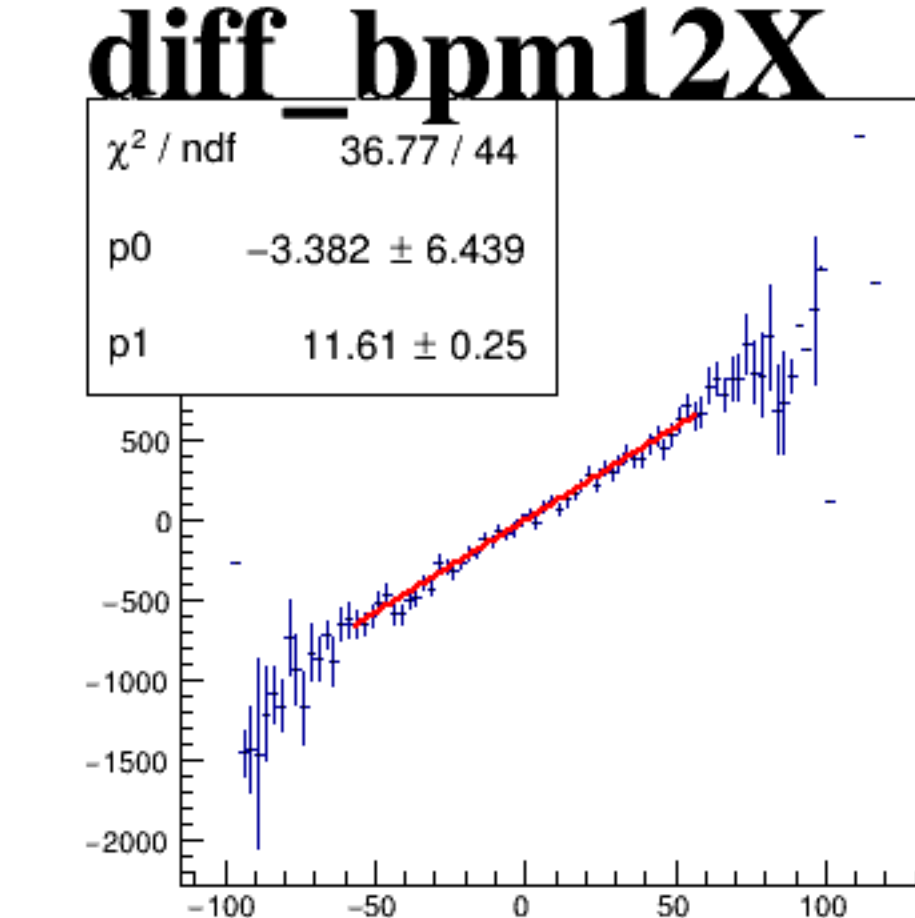
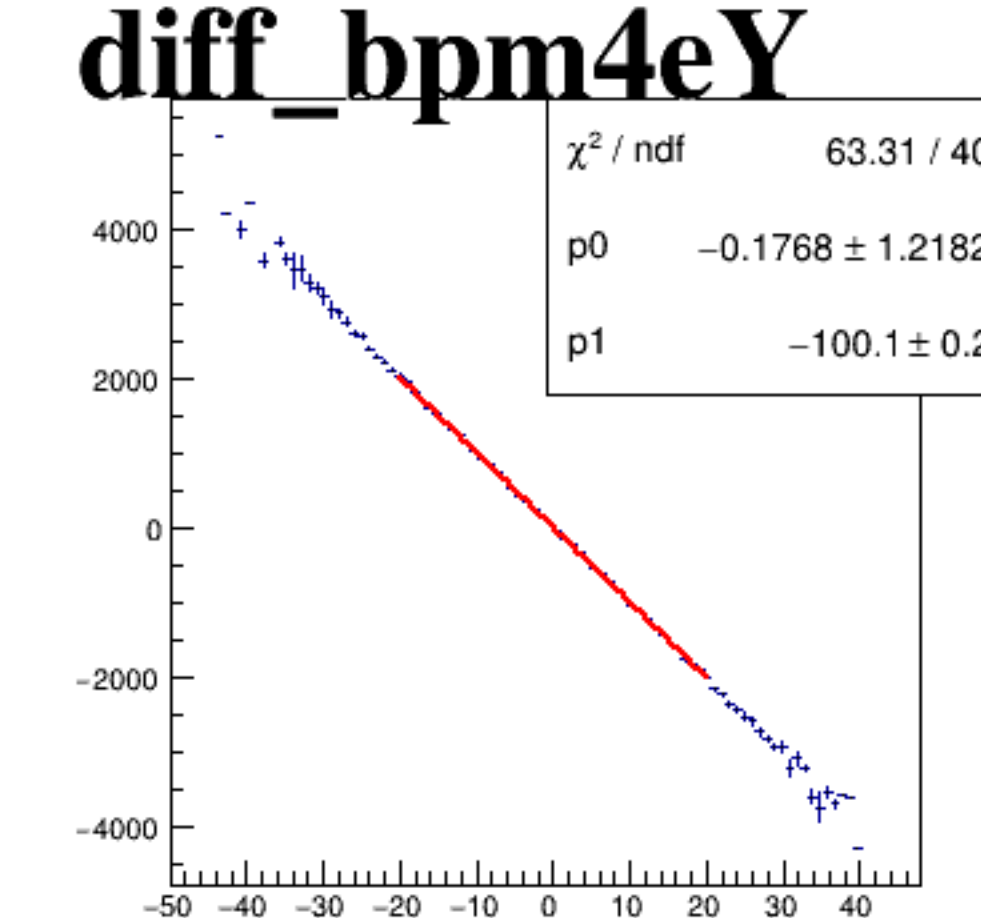
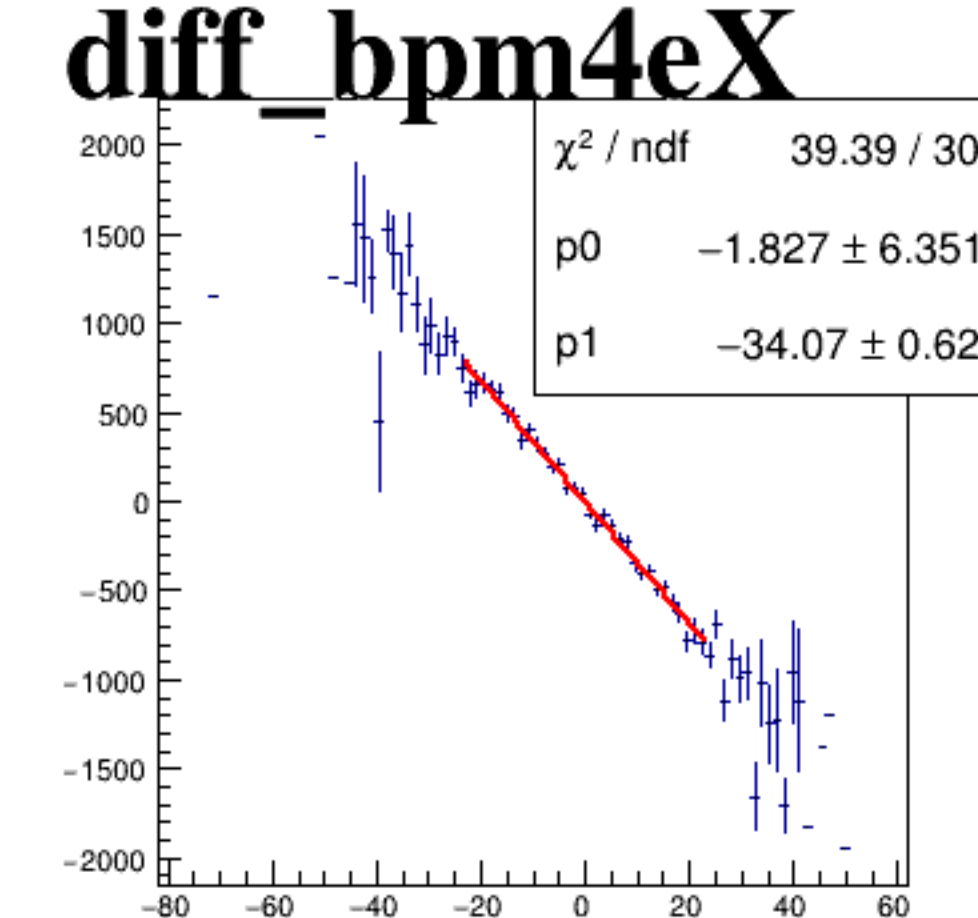
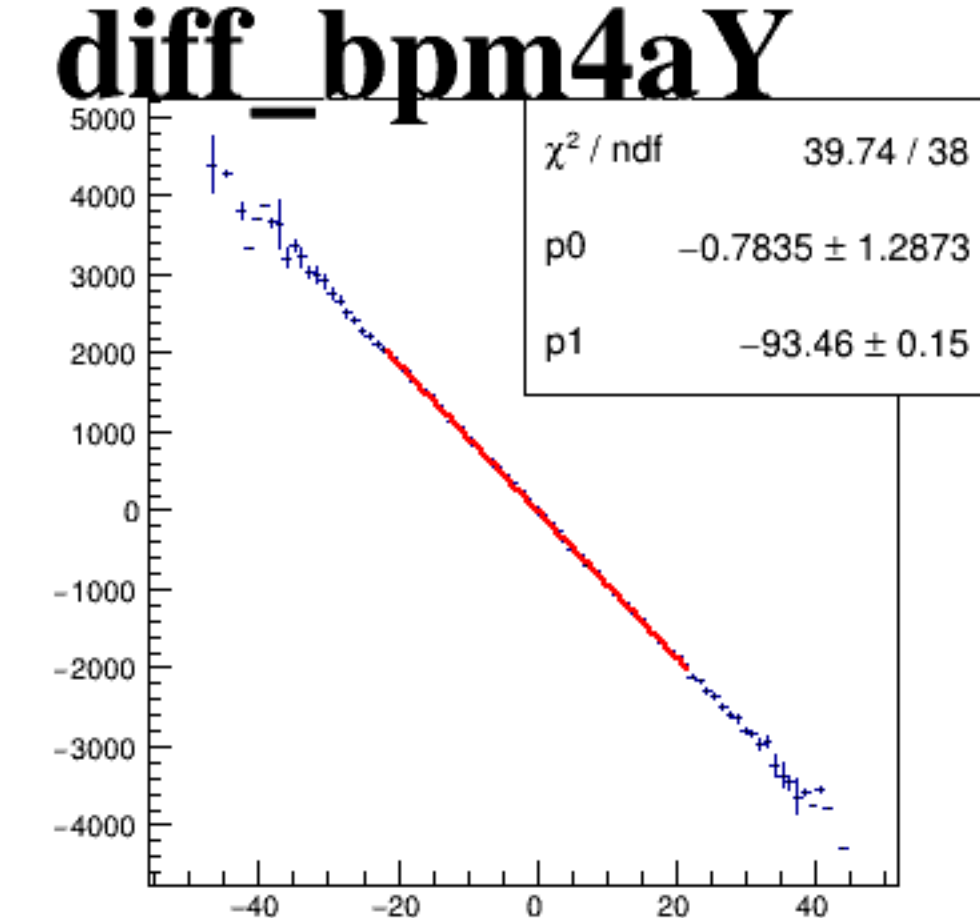
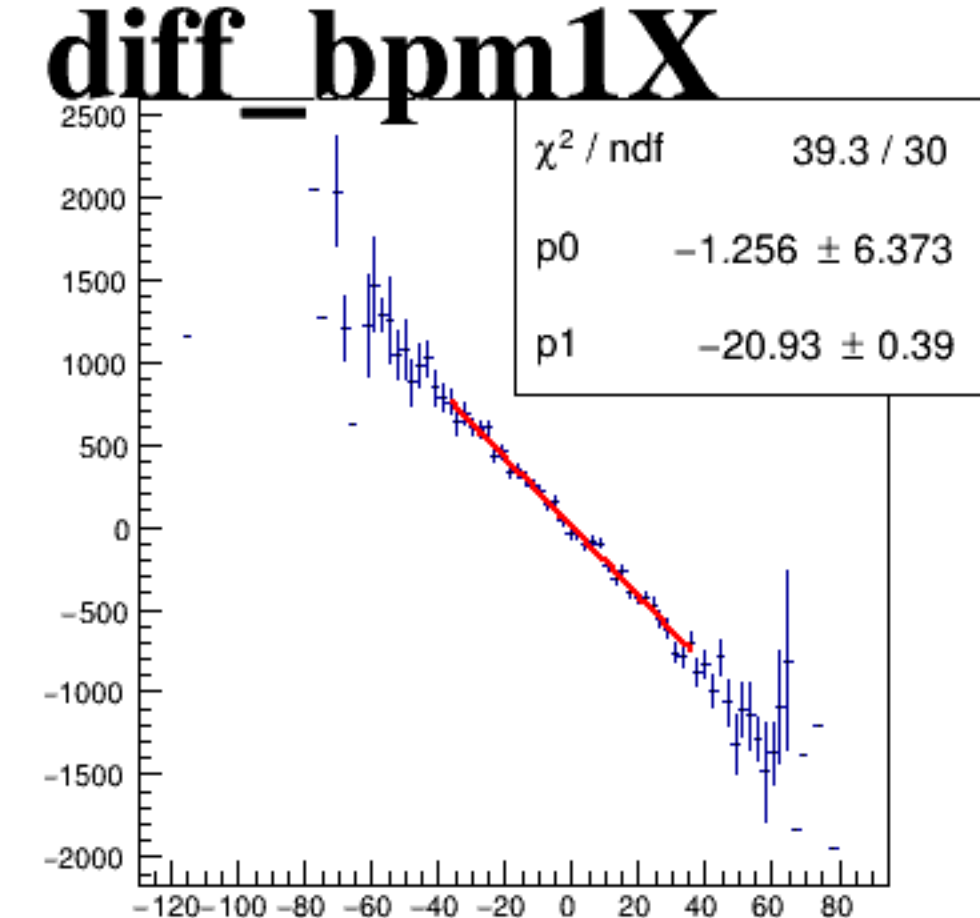
reg_asym_sam5



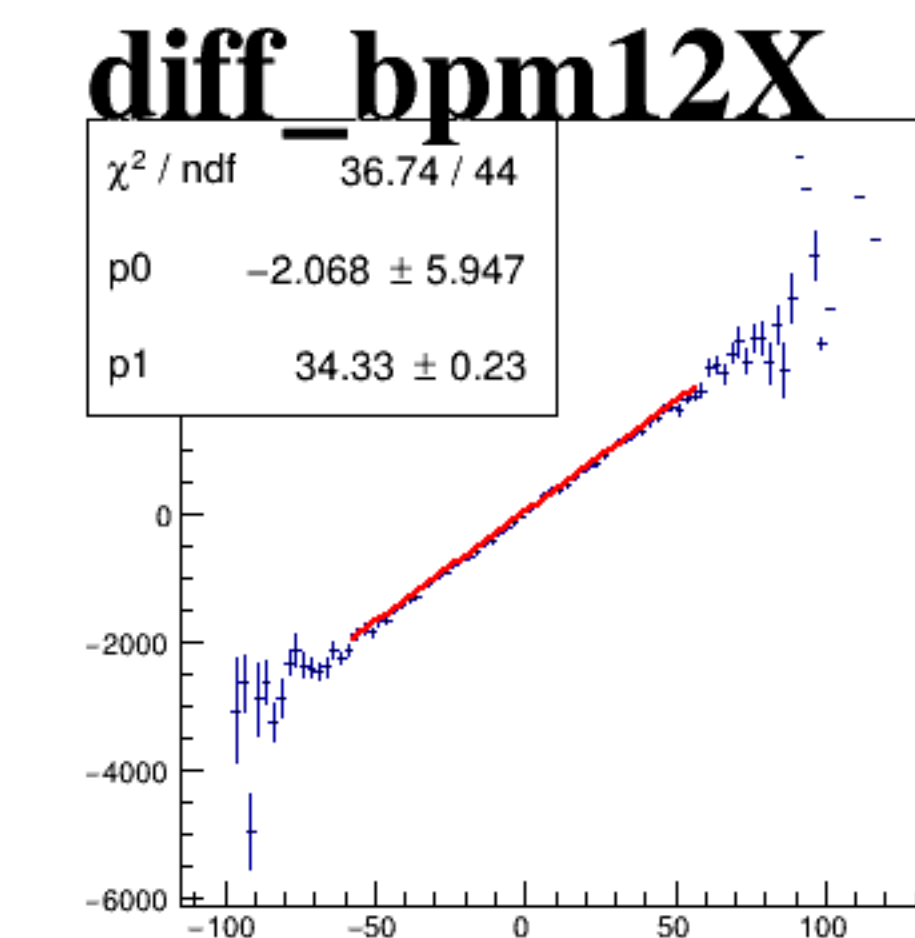
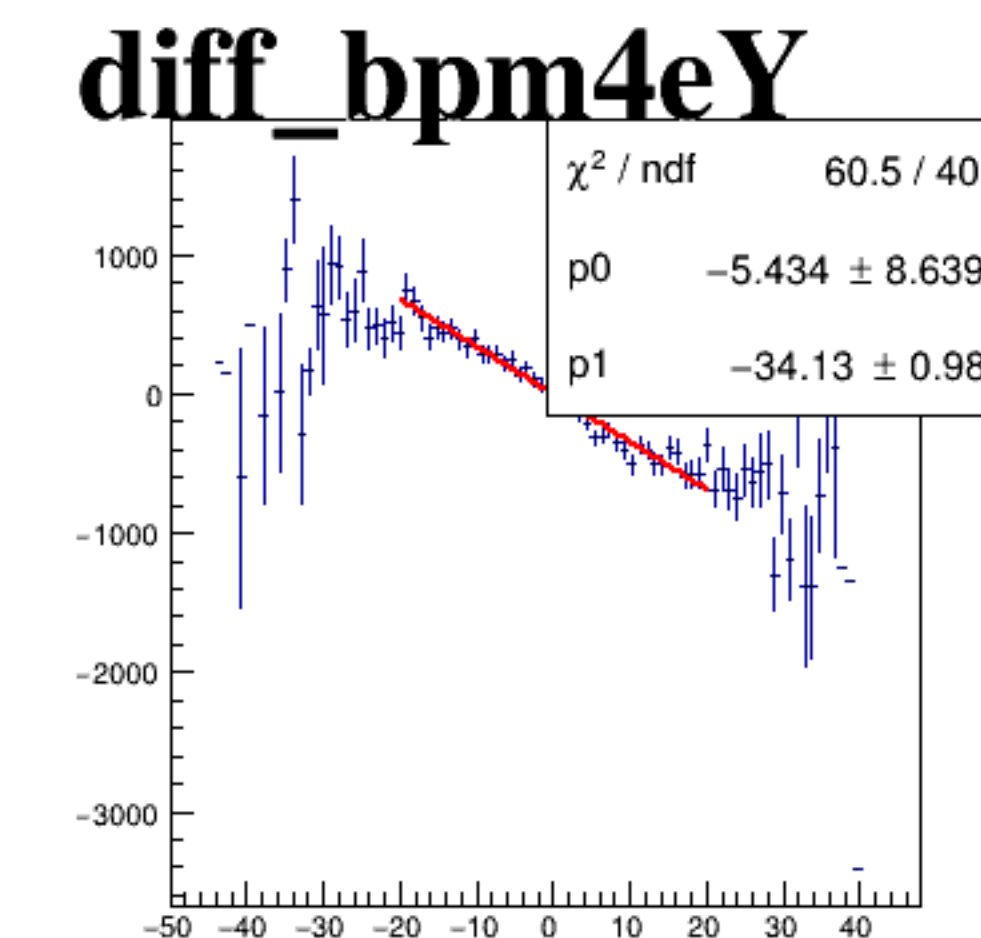
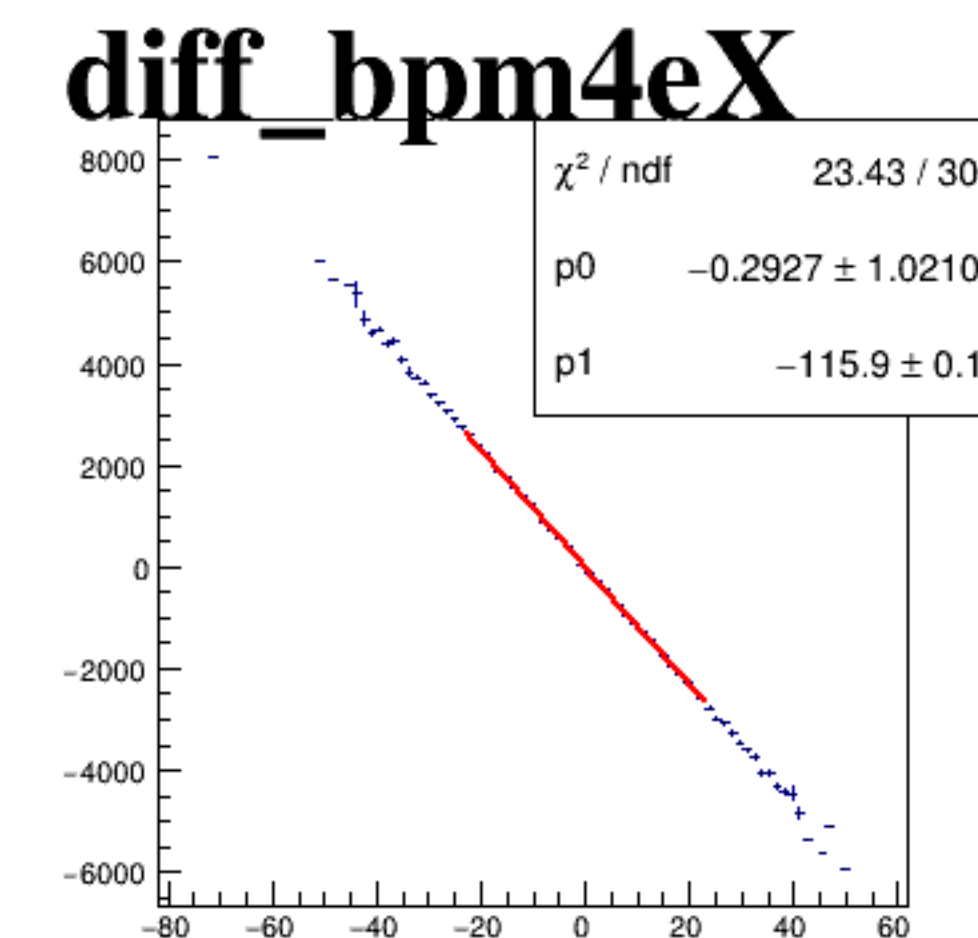
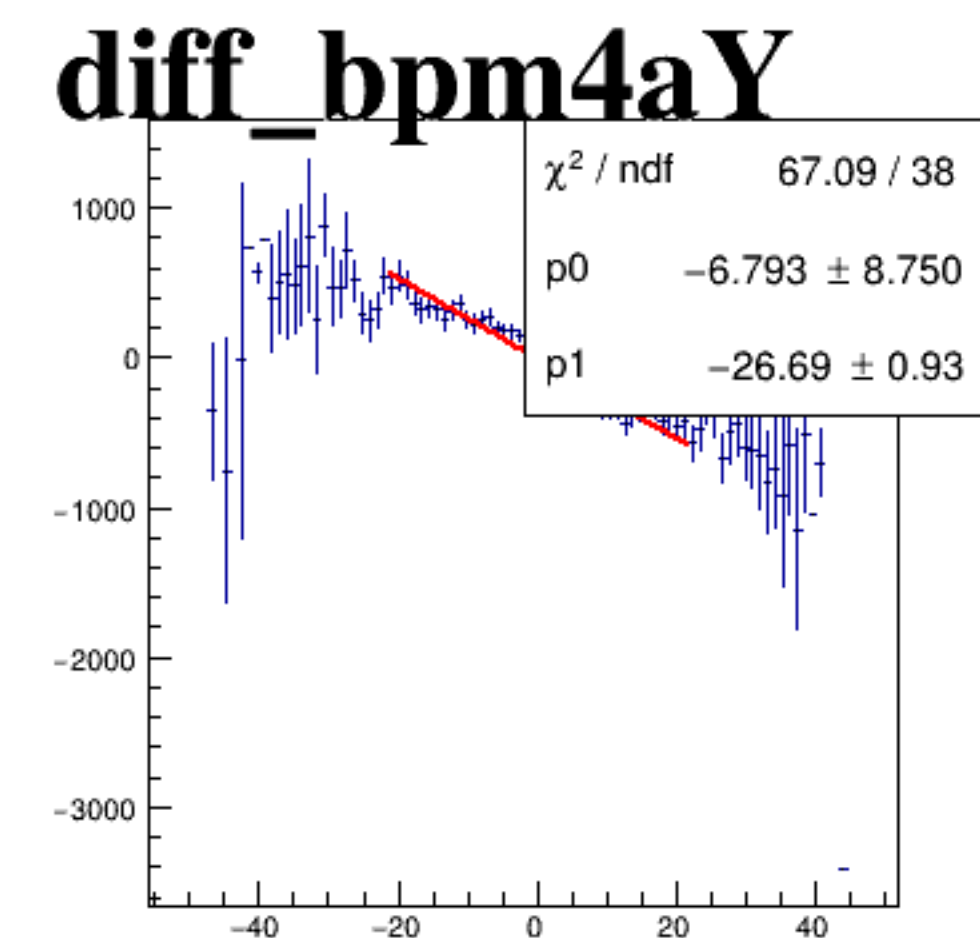
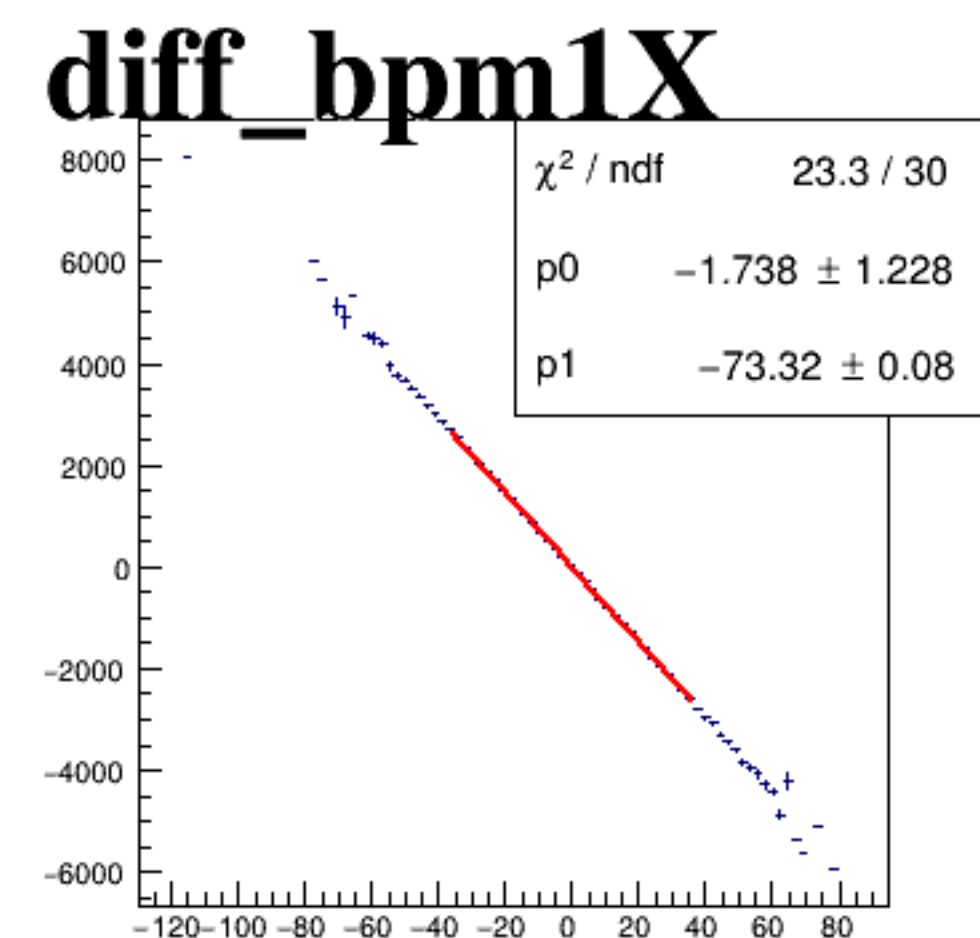
reg_asym_sam7



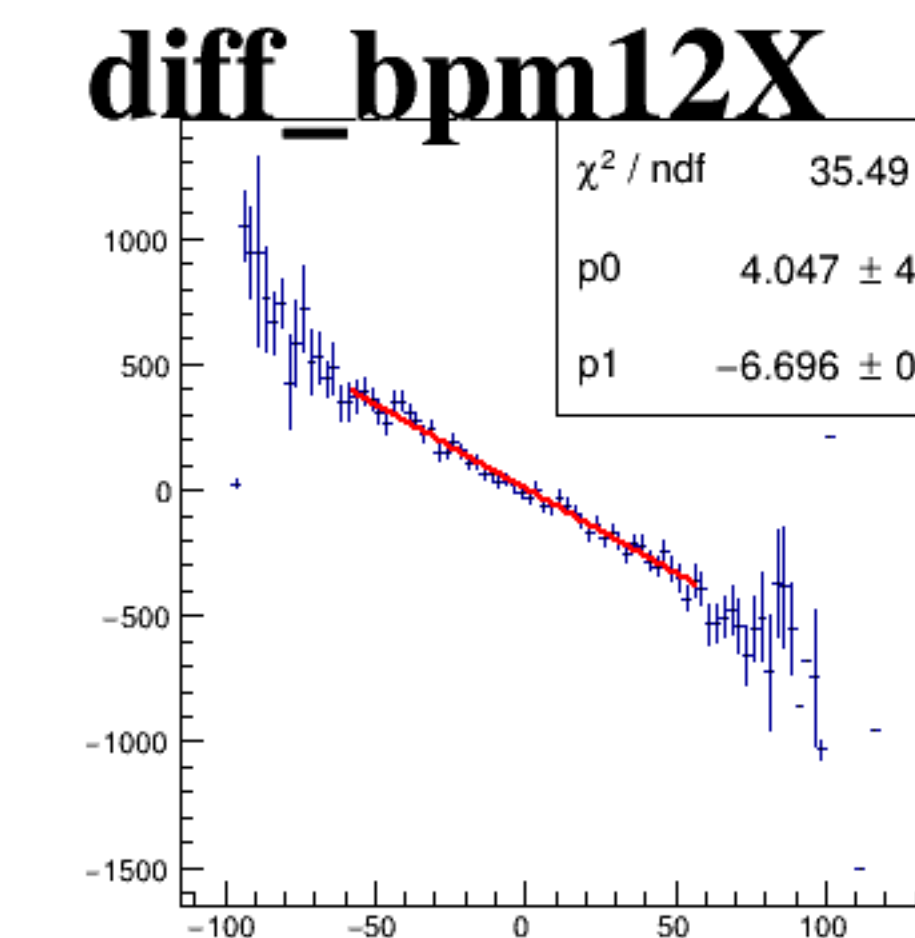
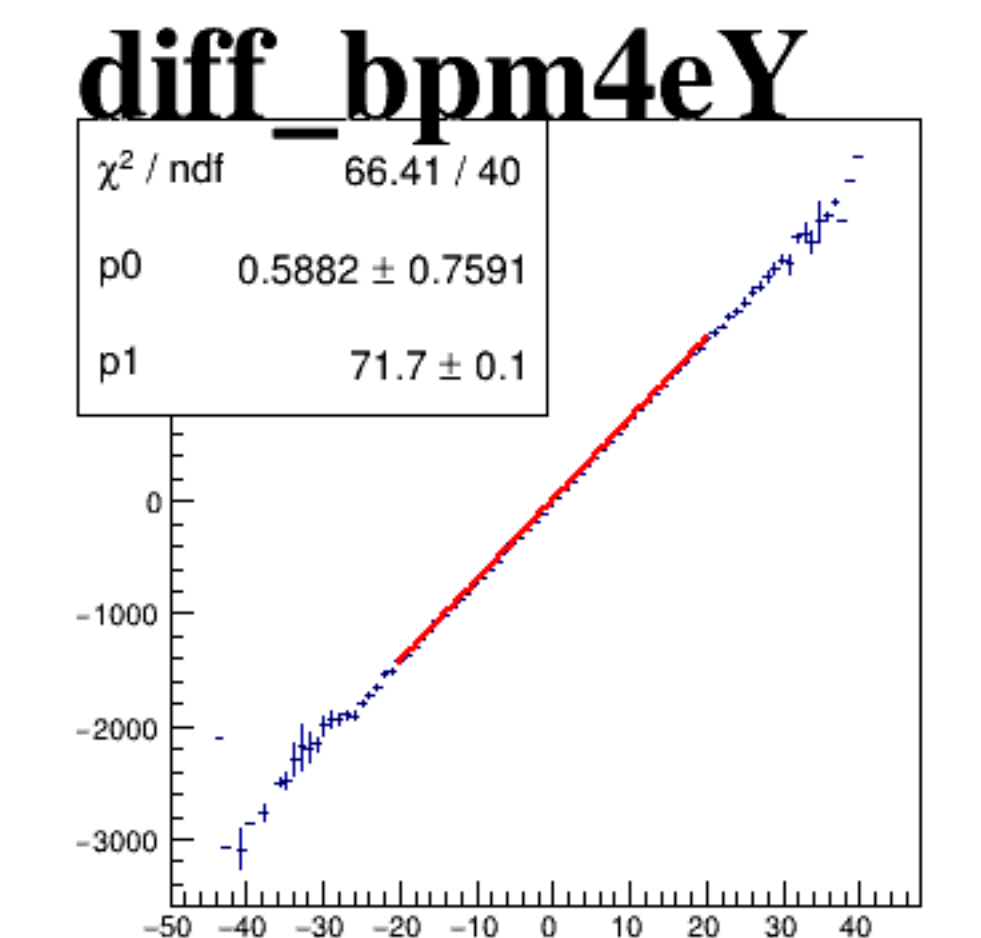
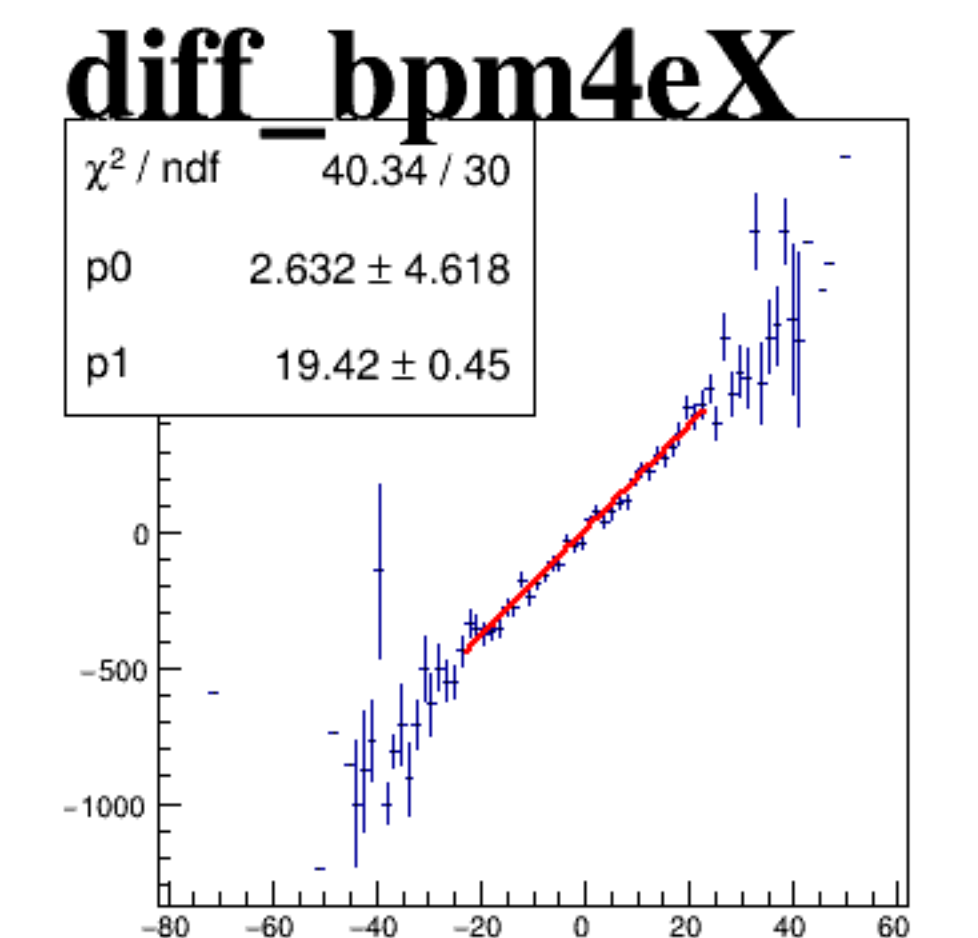
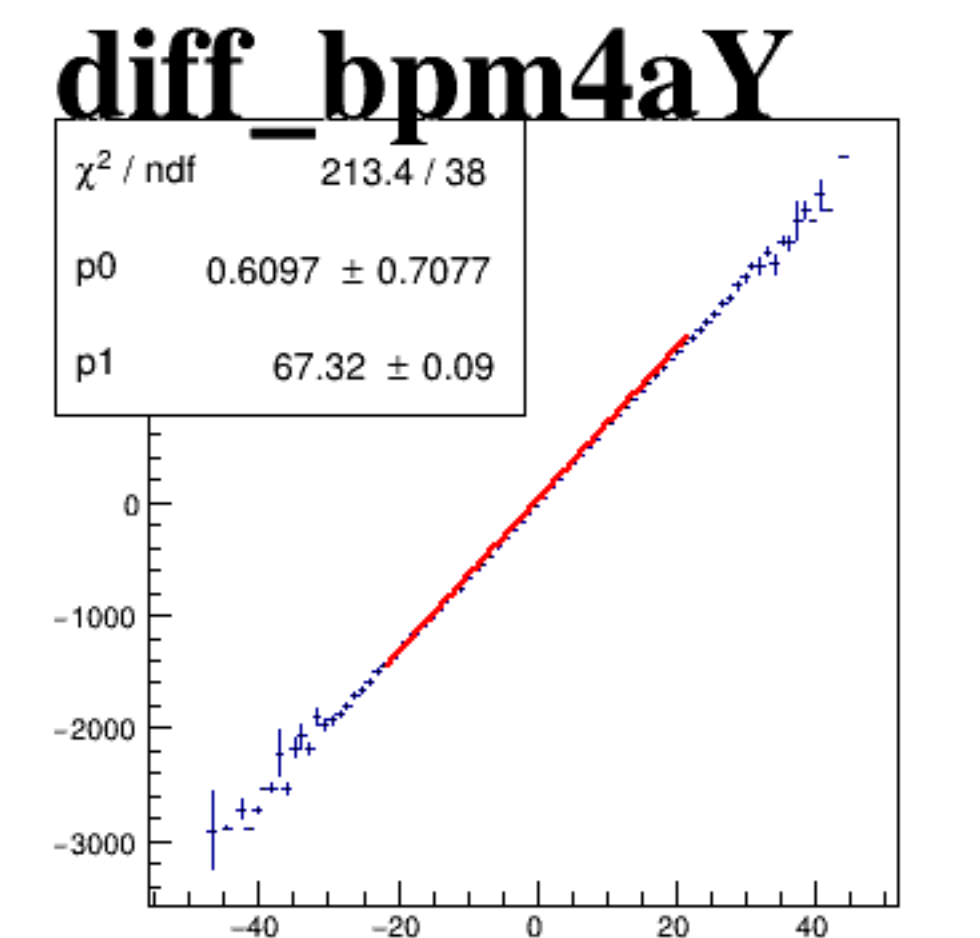
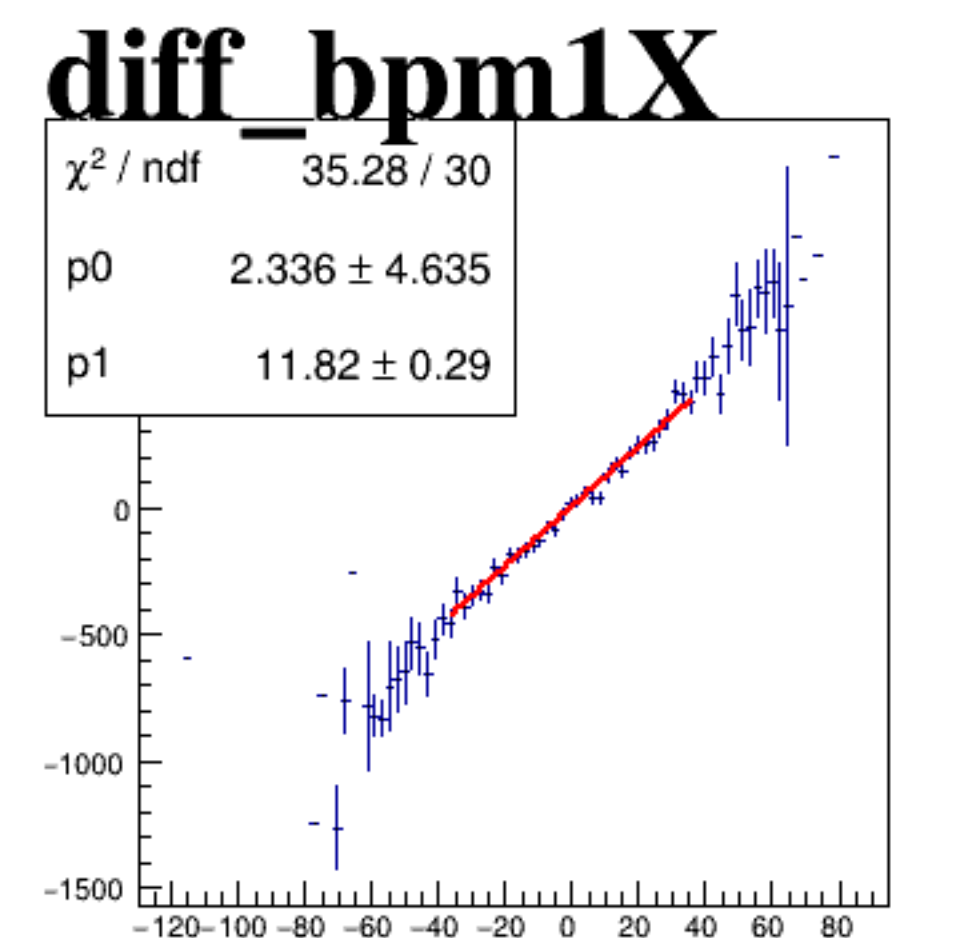
asym_sam1



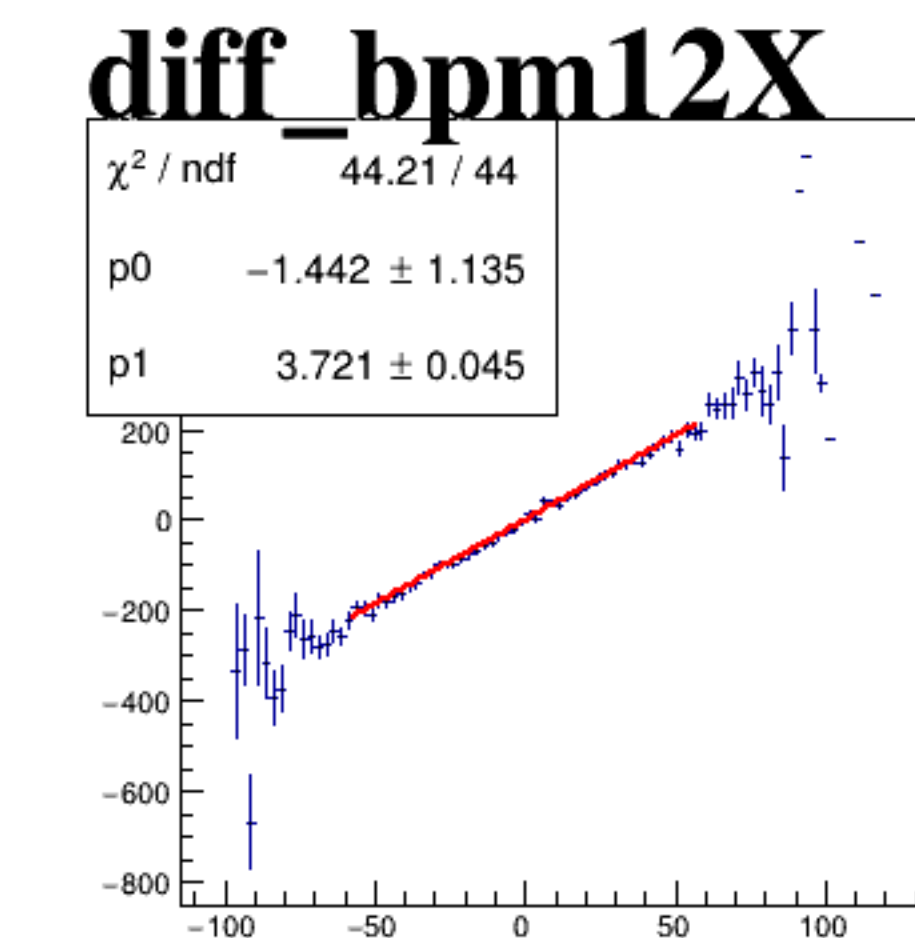
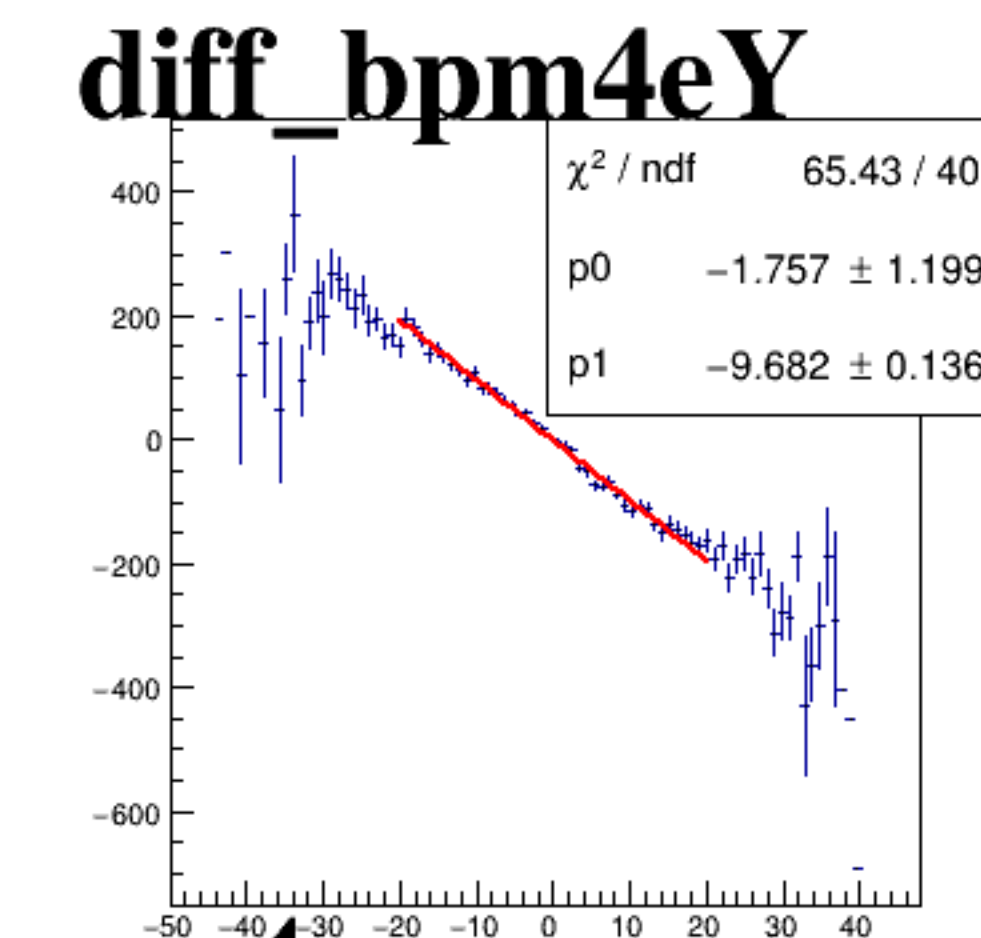
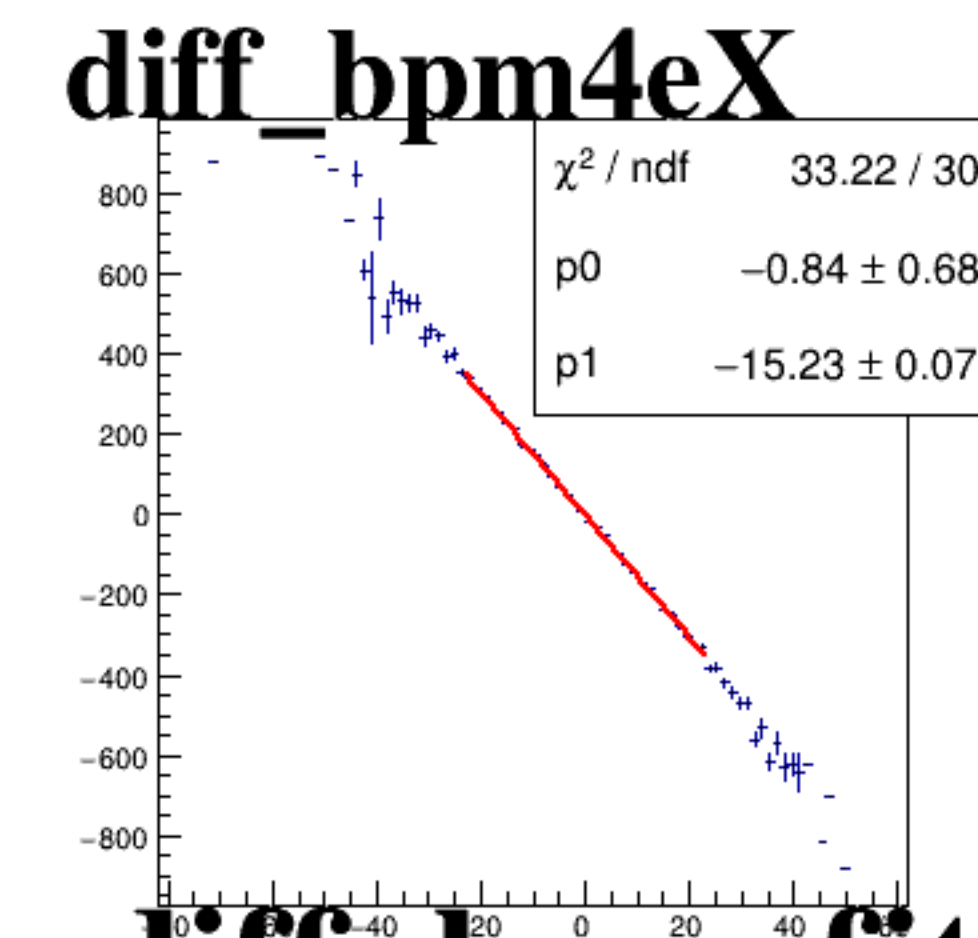
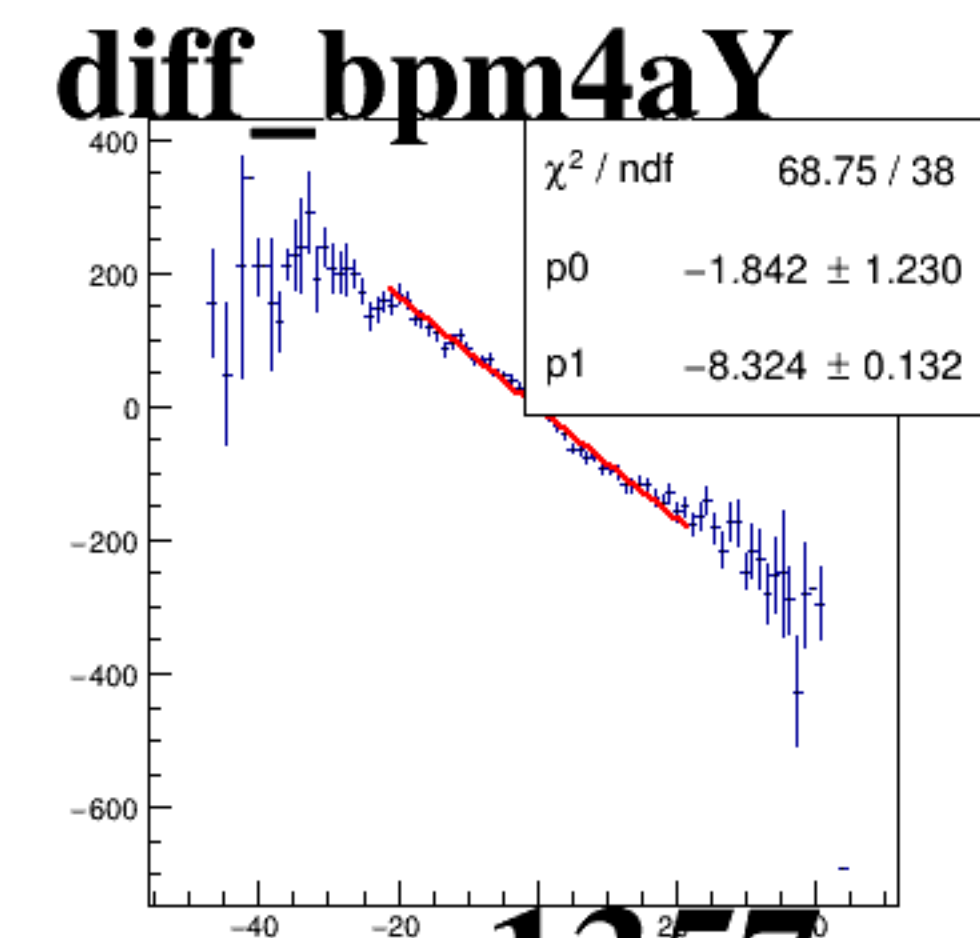
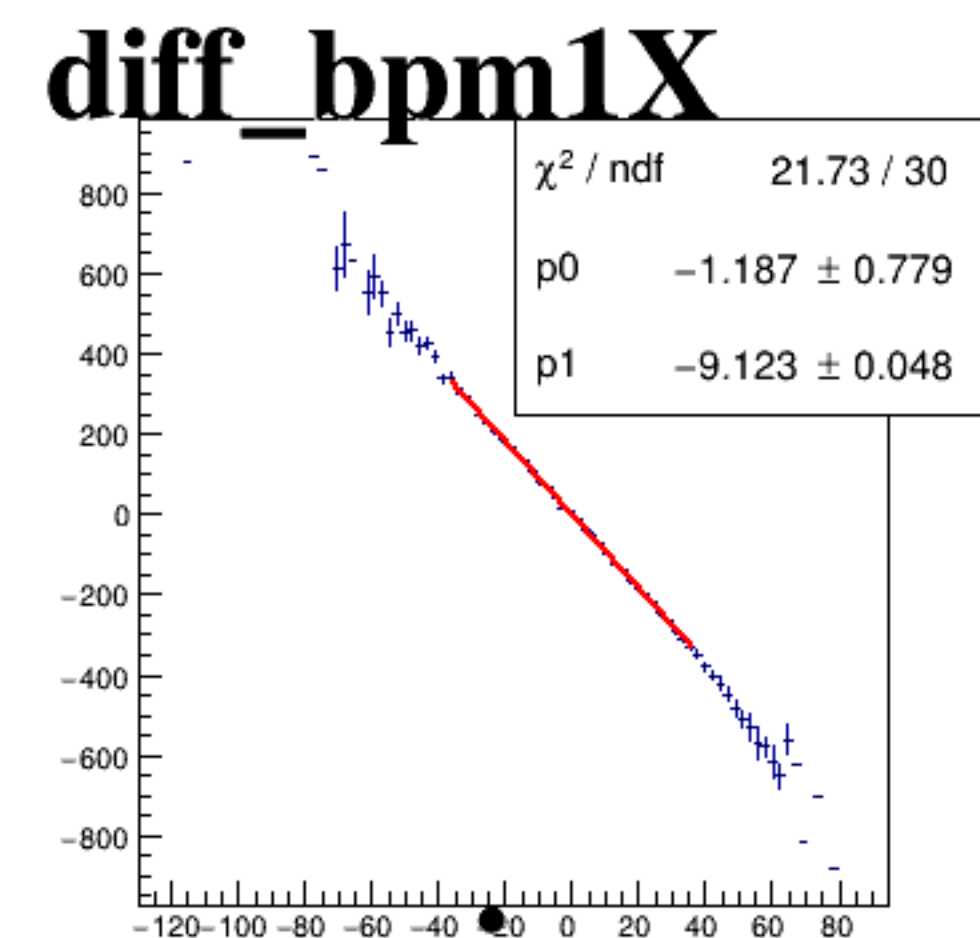
asym_sam3



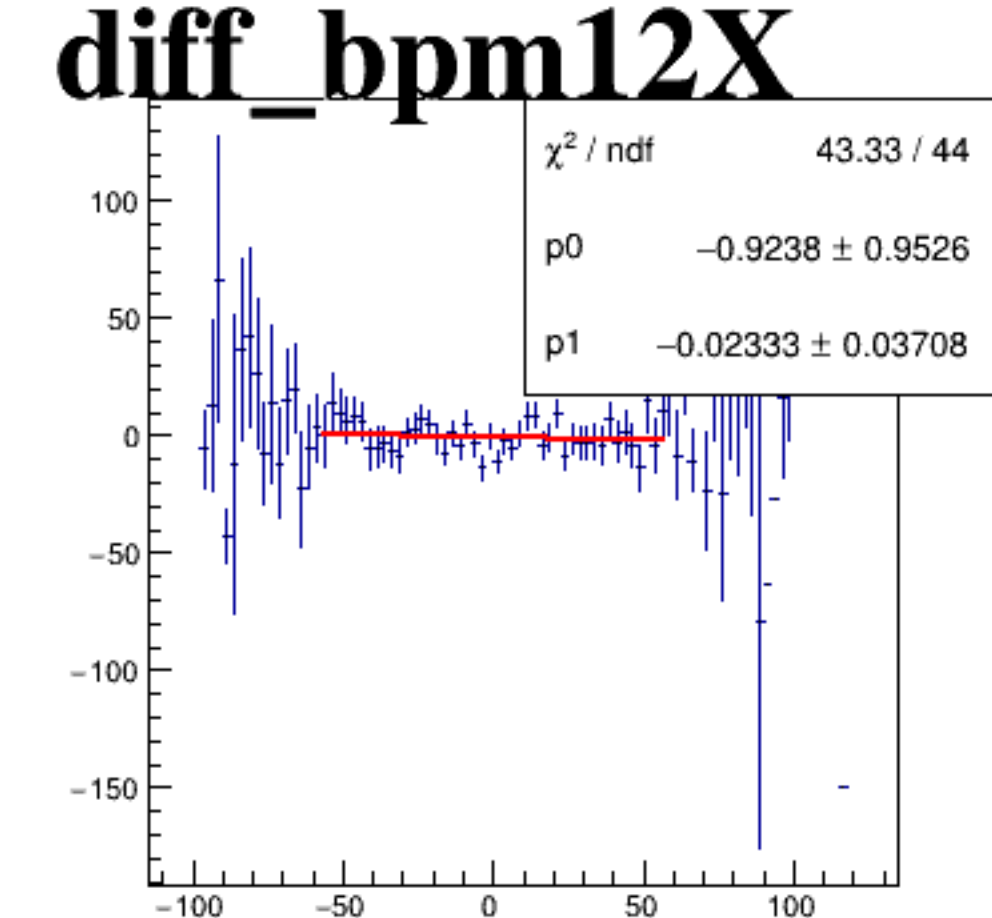
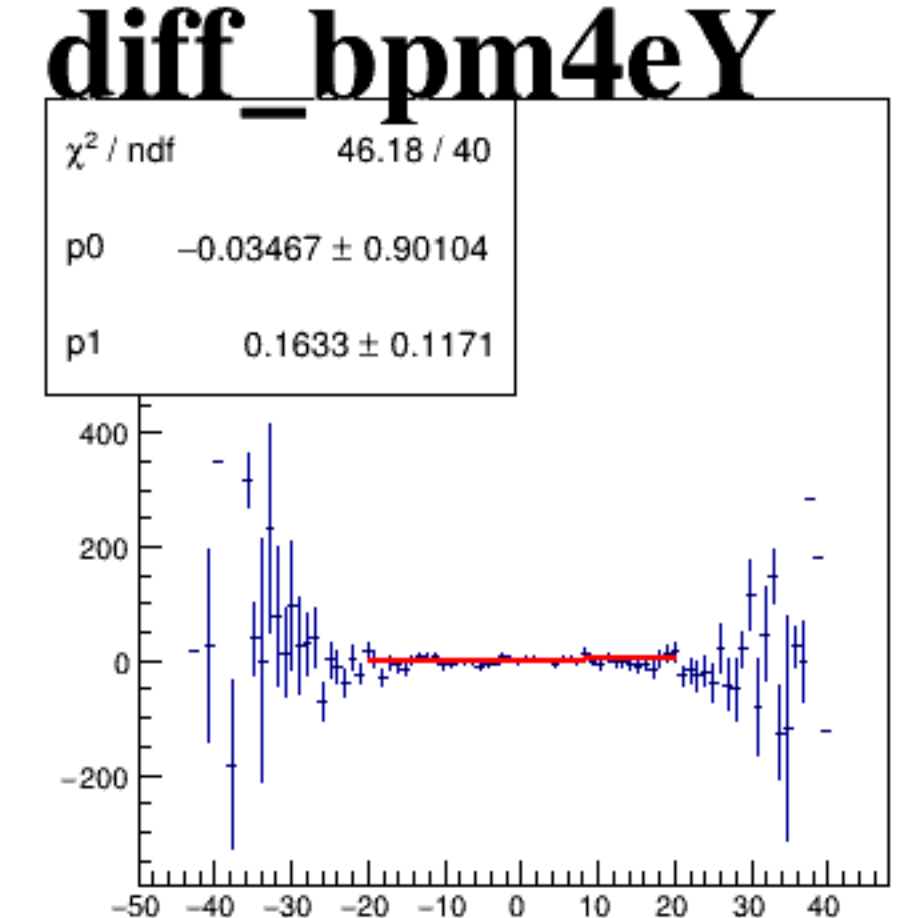
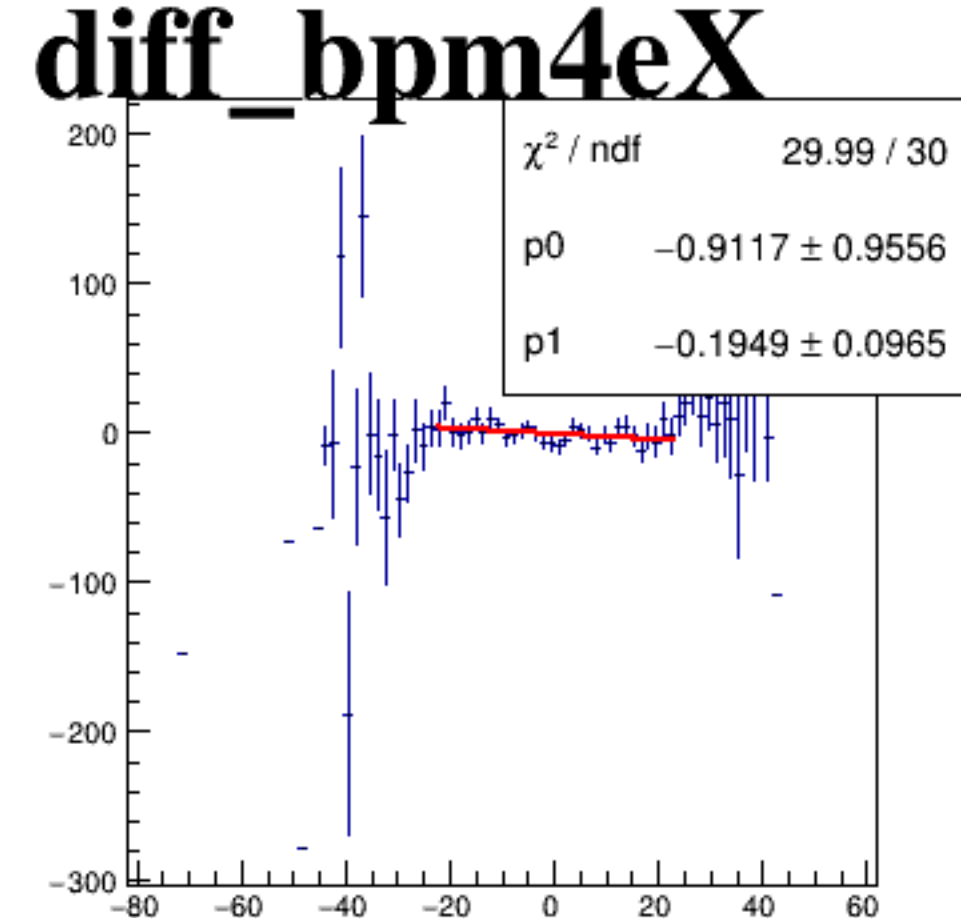
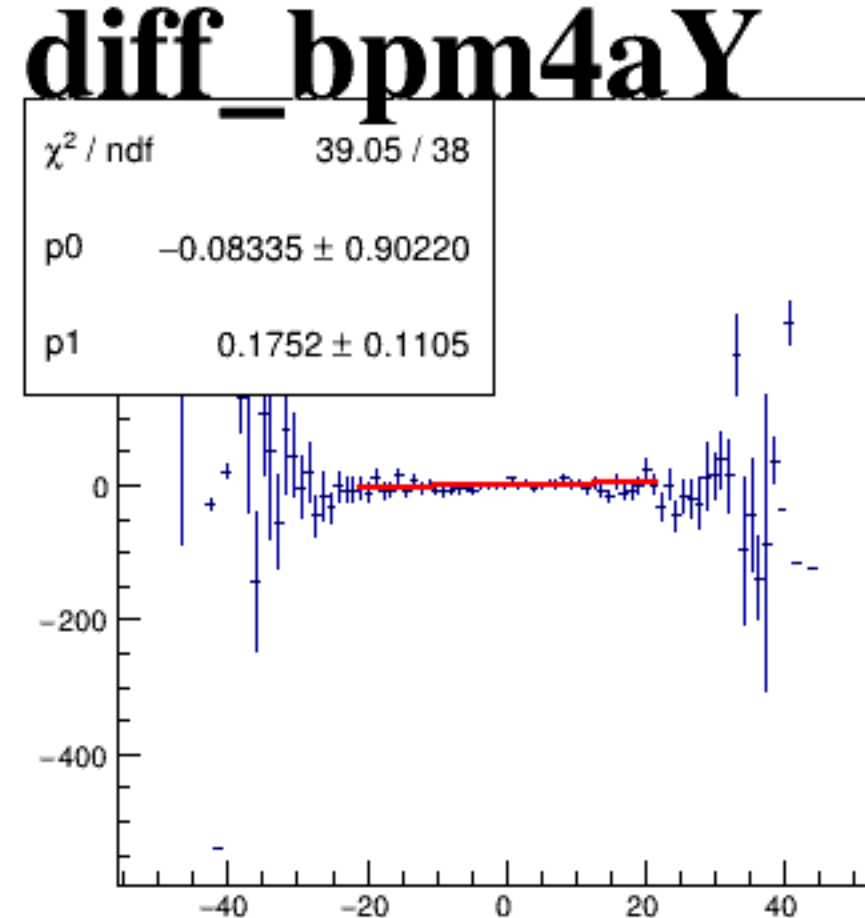
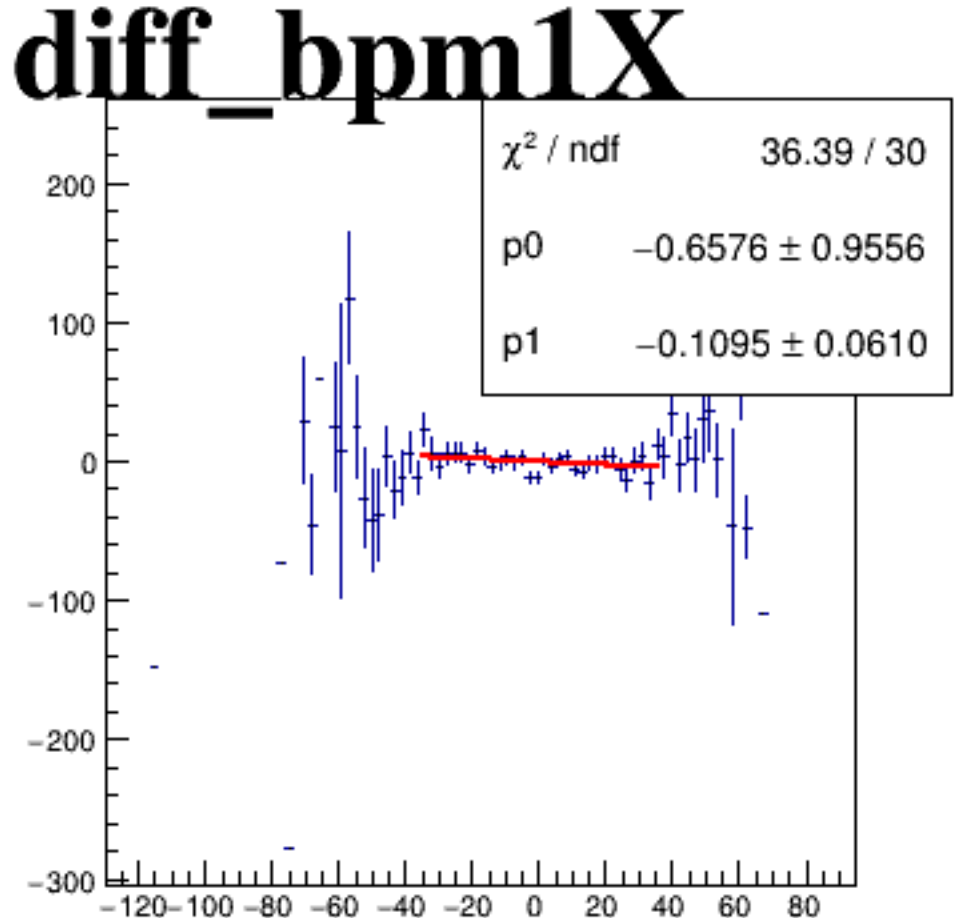
asym_sam5



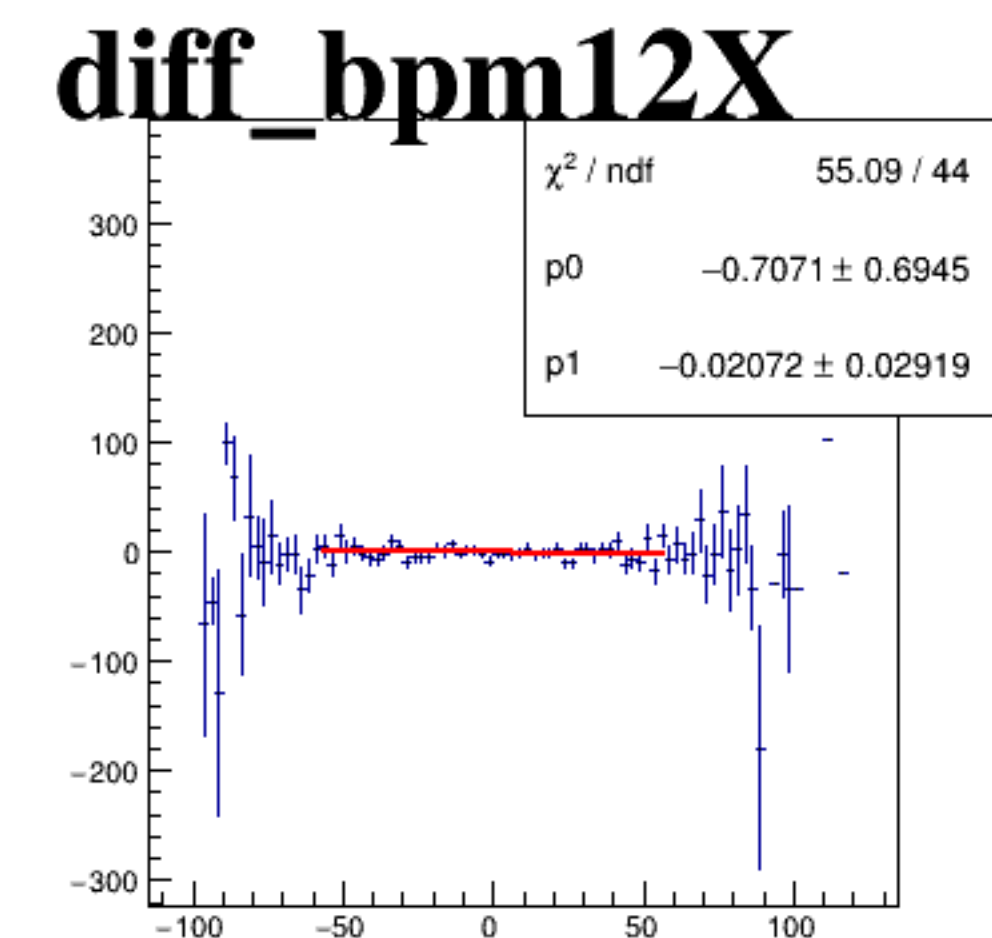
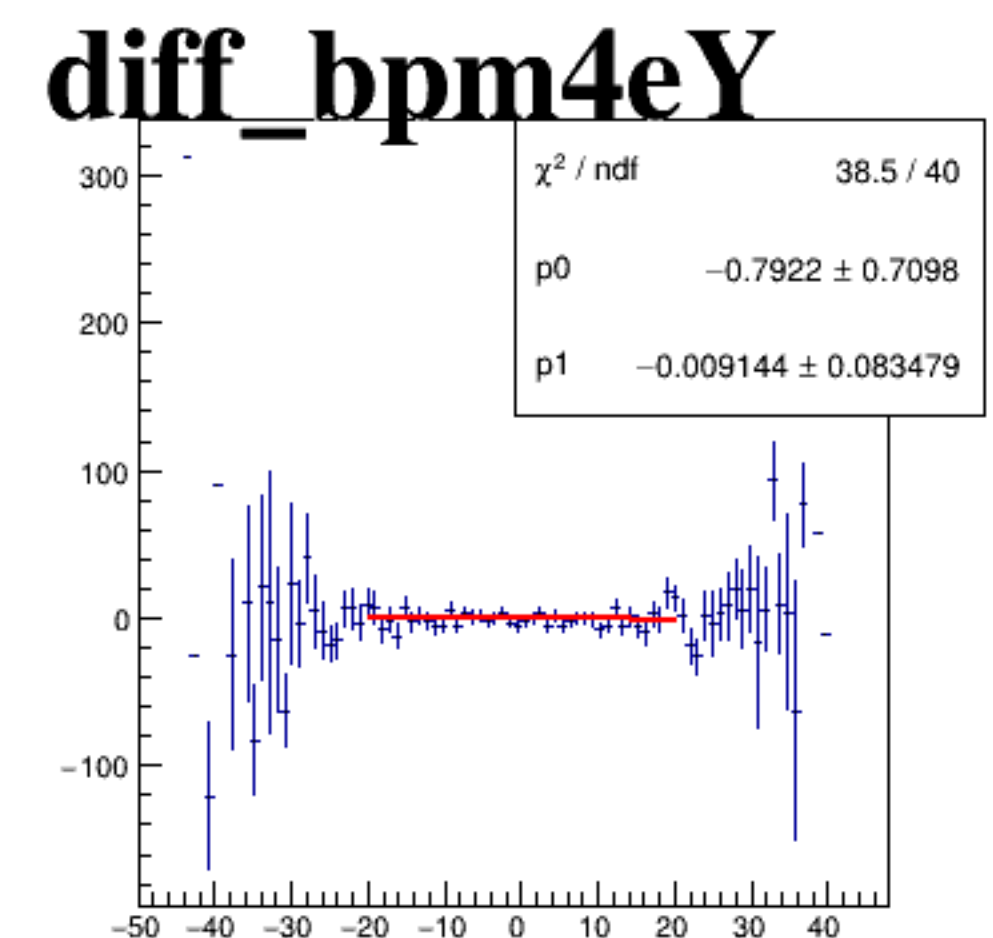
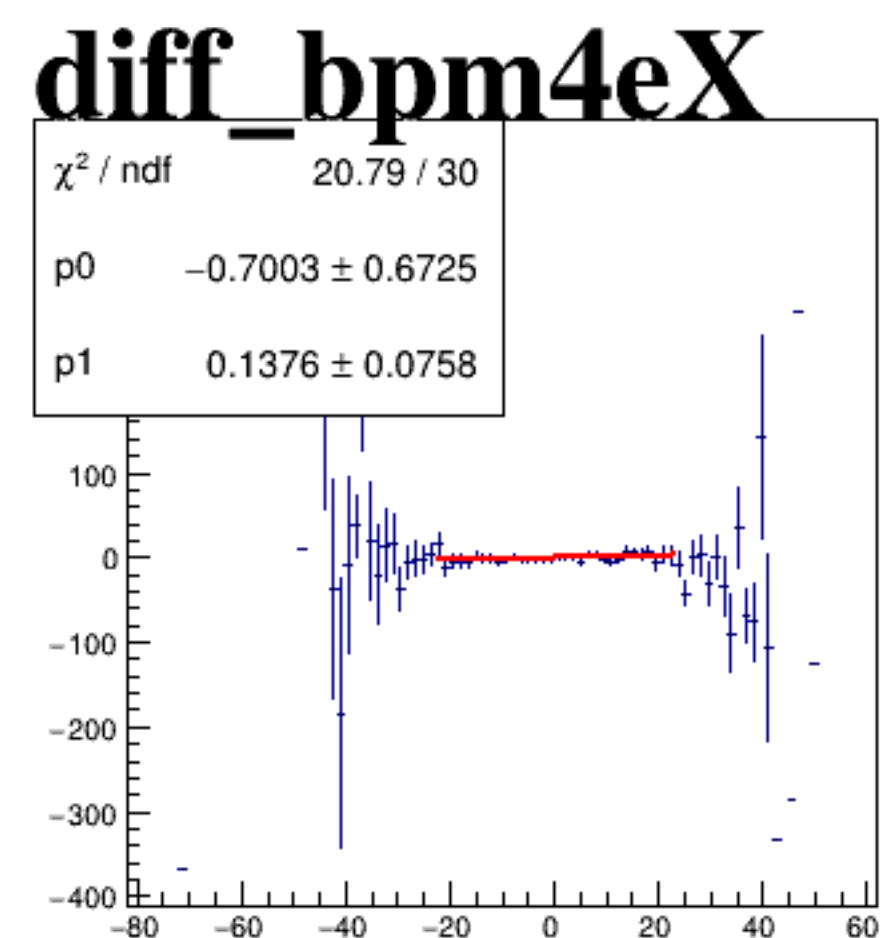
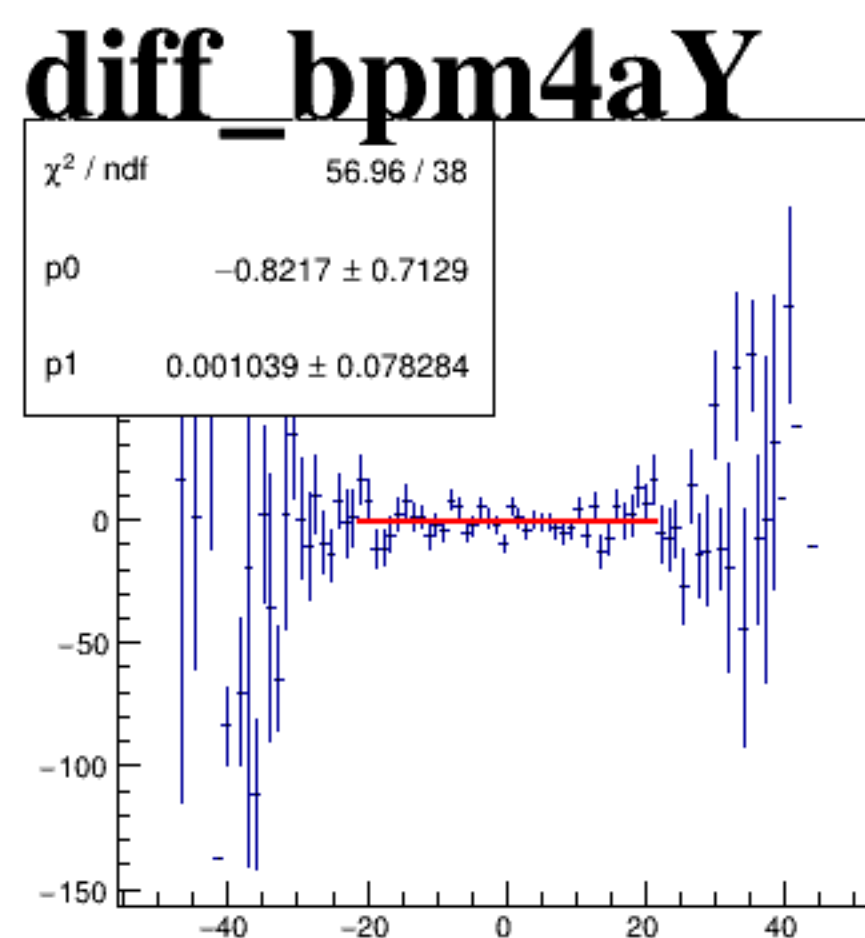
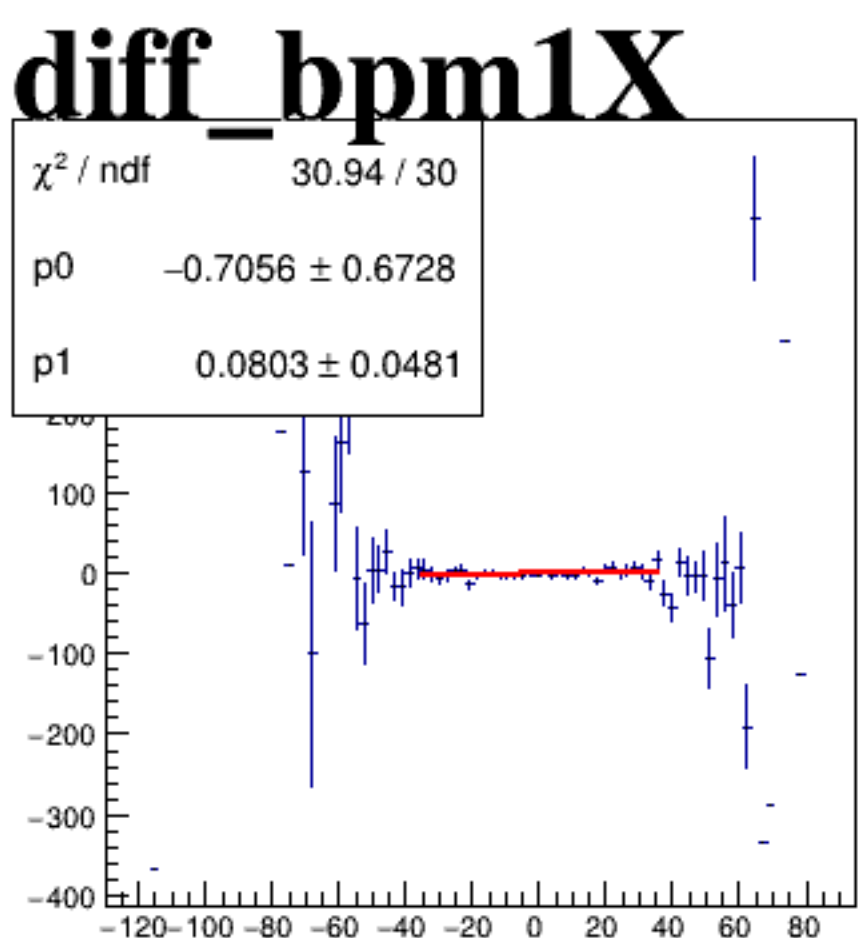
asym_sam7



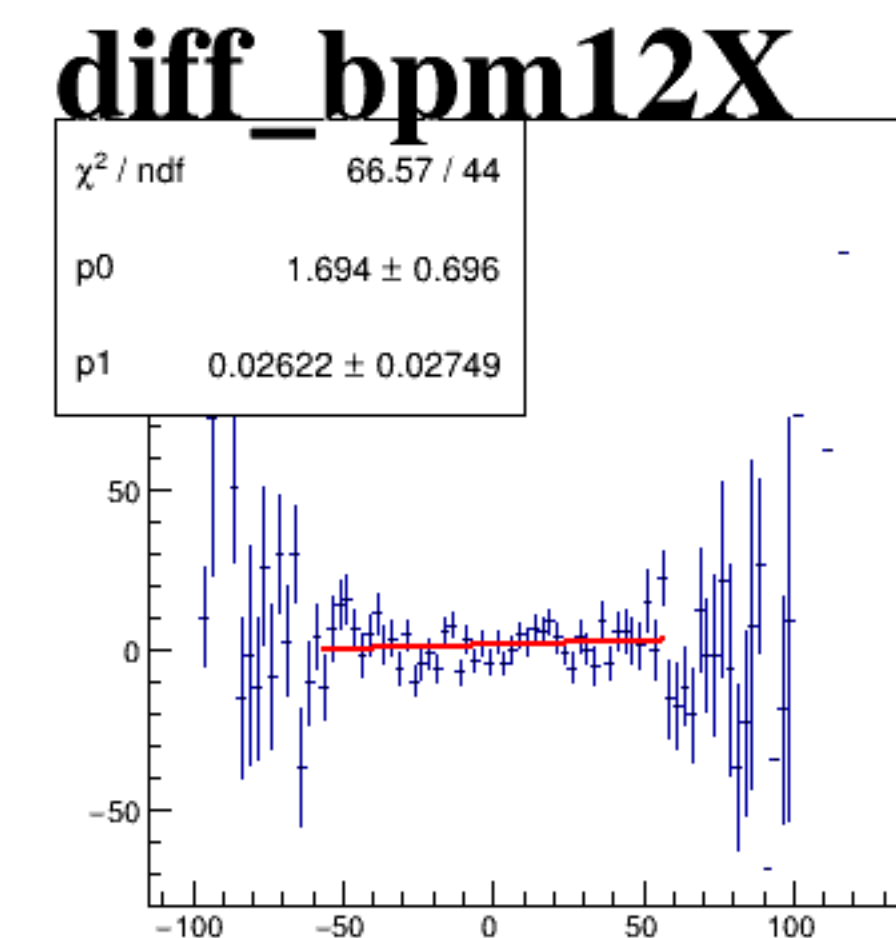
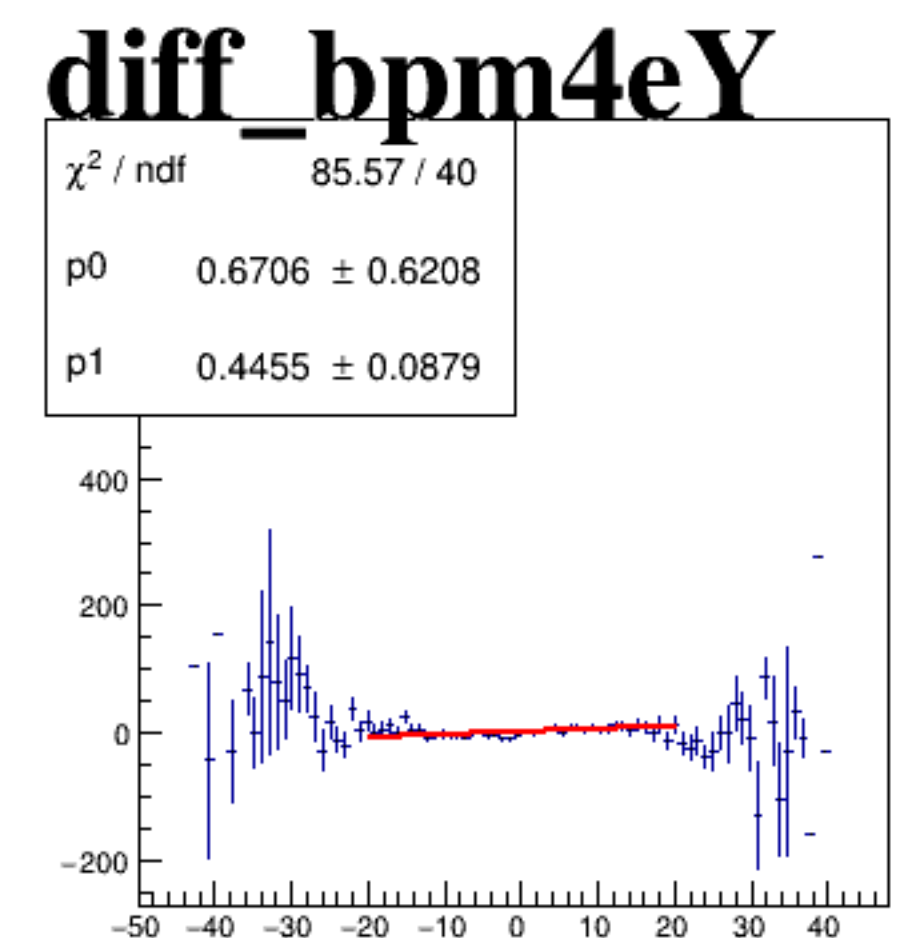
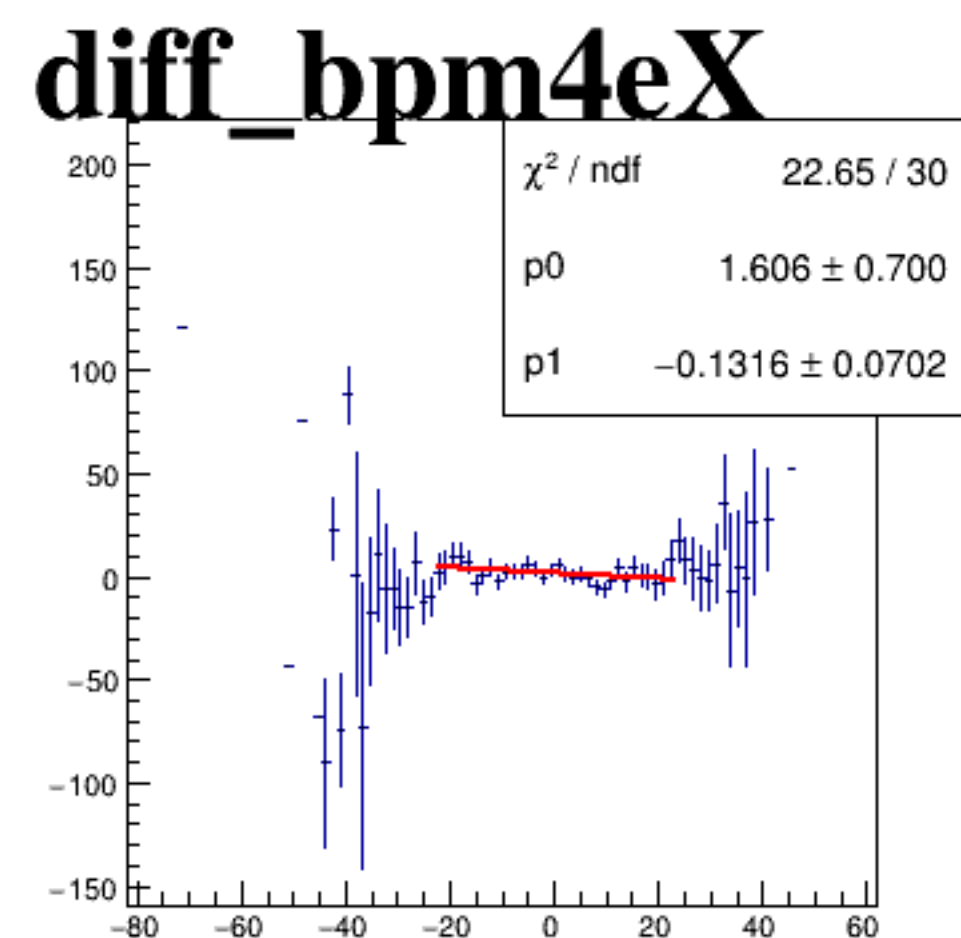
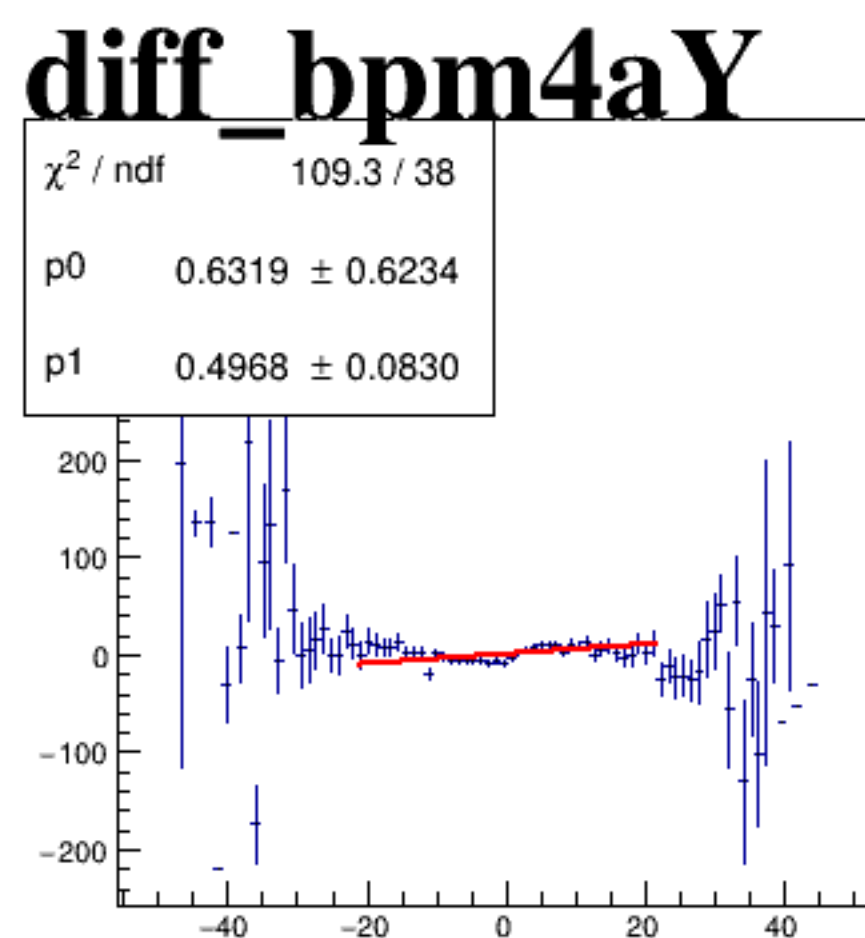
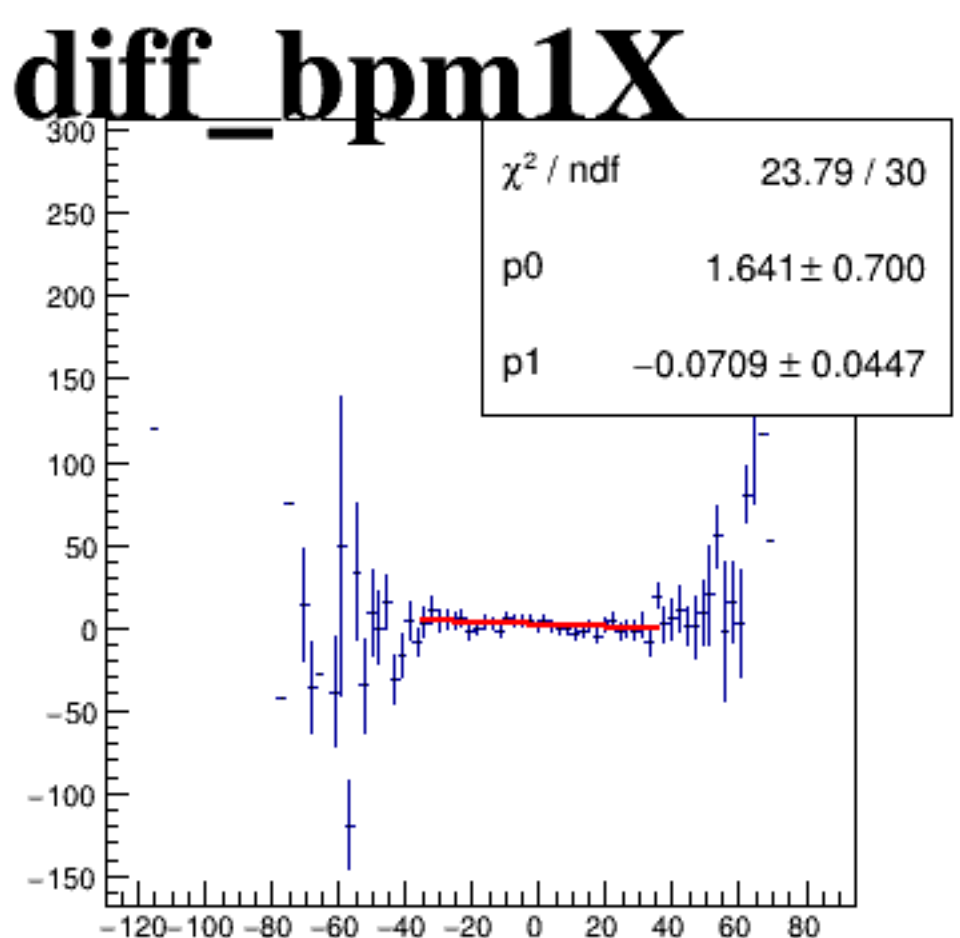
reg_asym_sam1



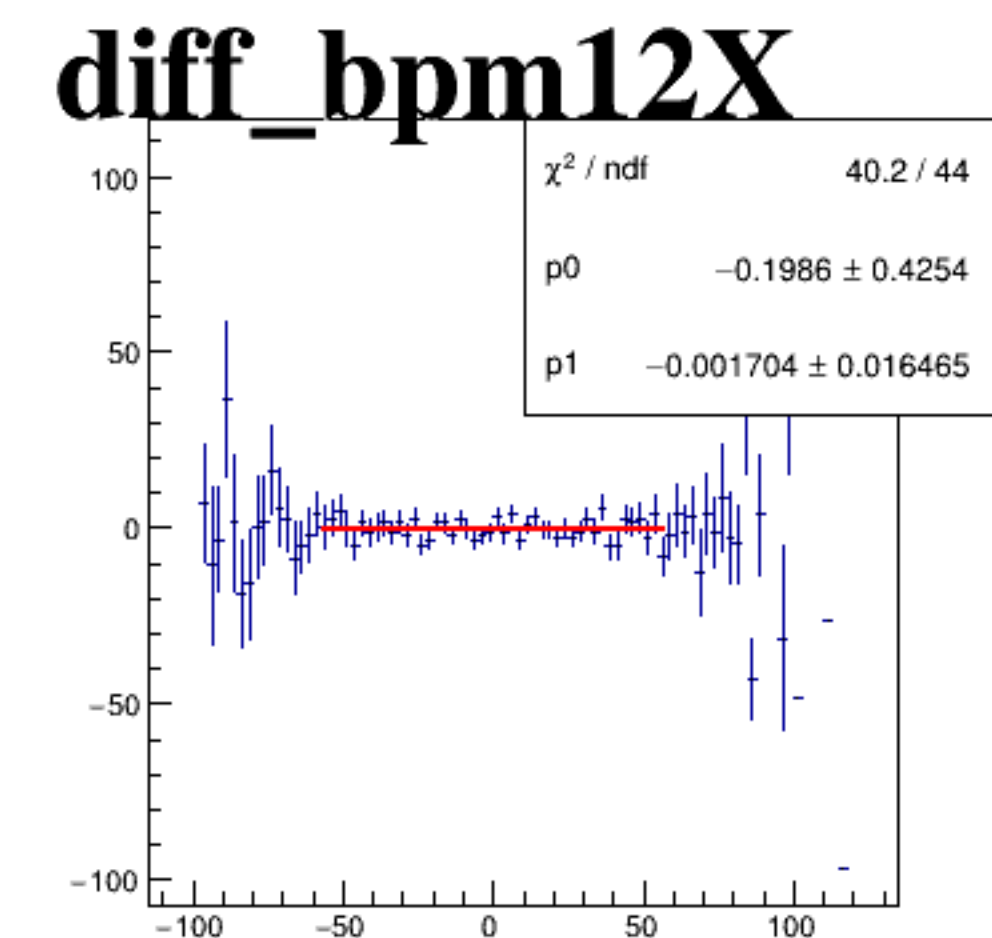
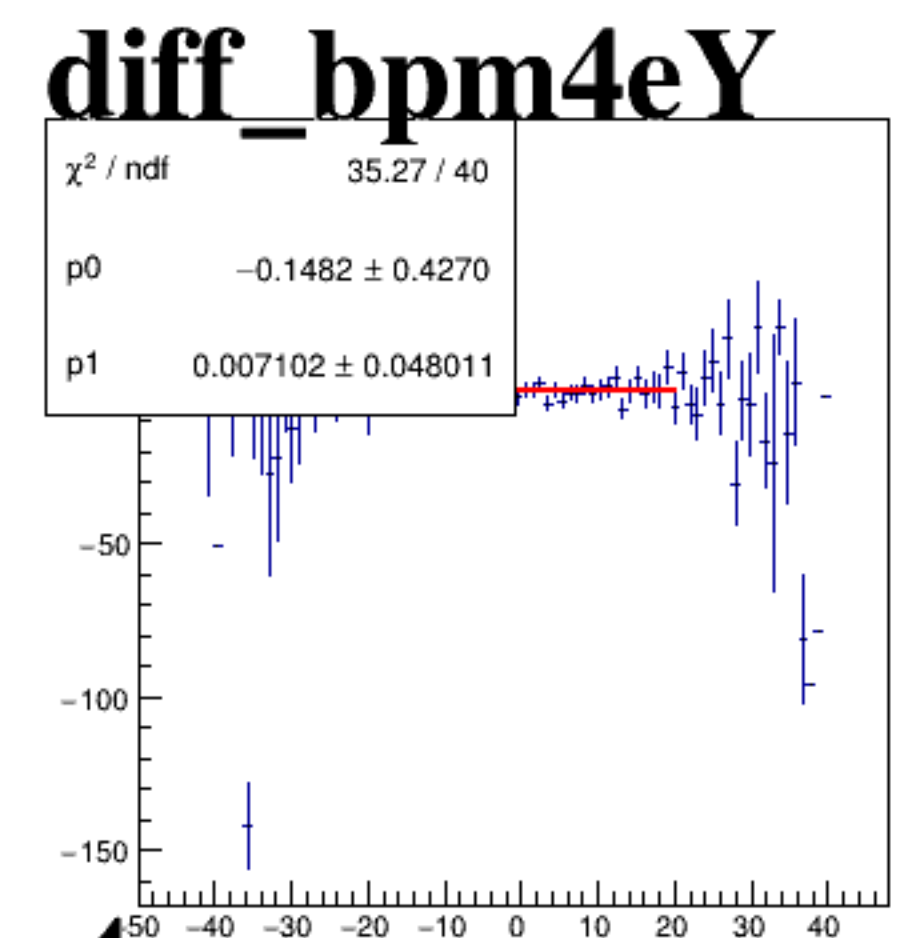
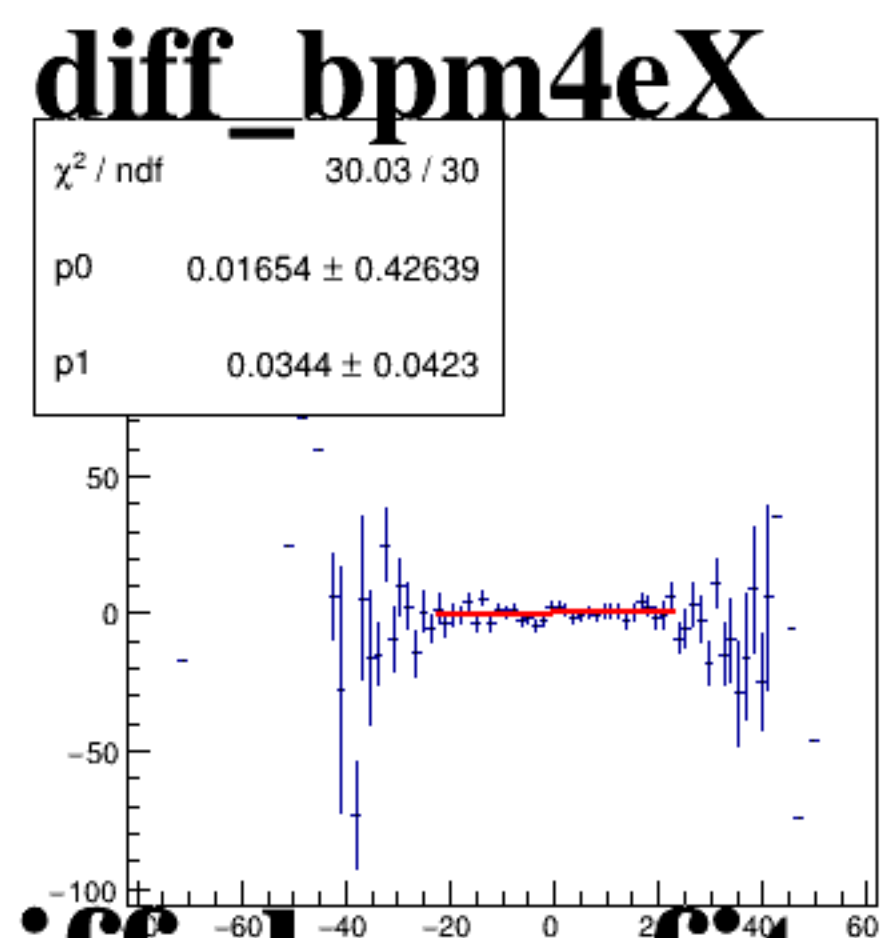
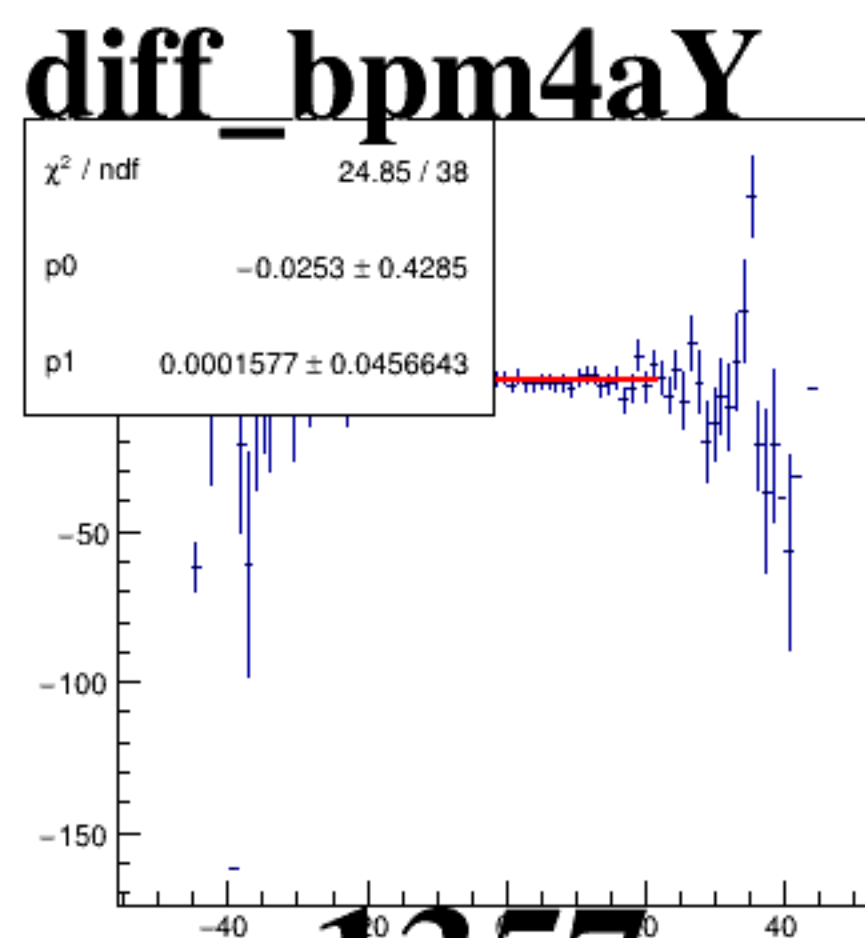
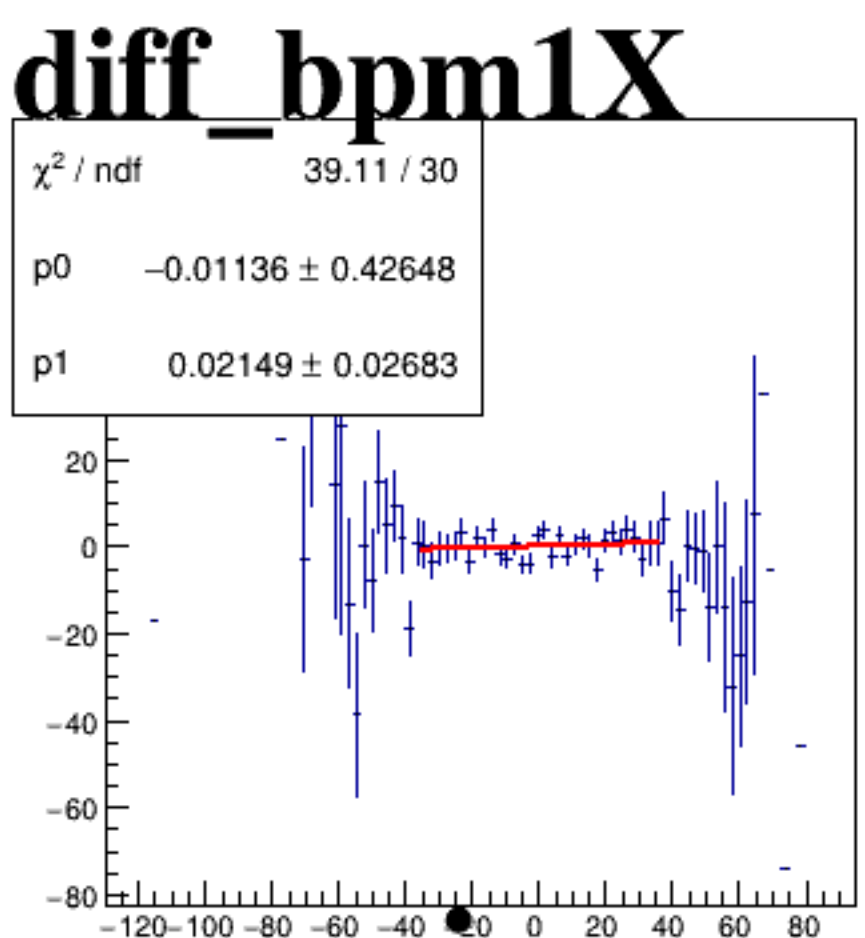
reg_asym_sam3



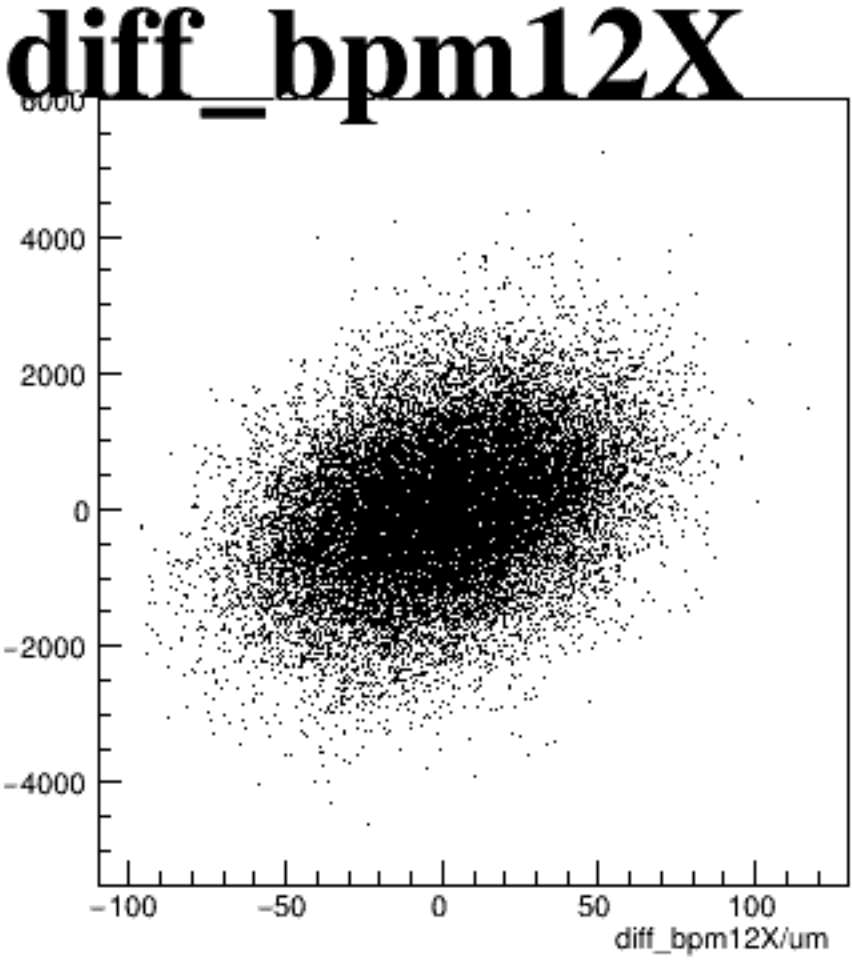
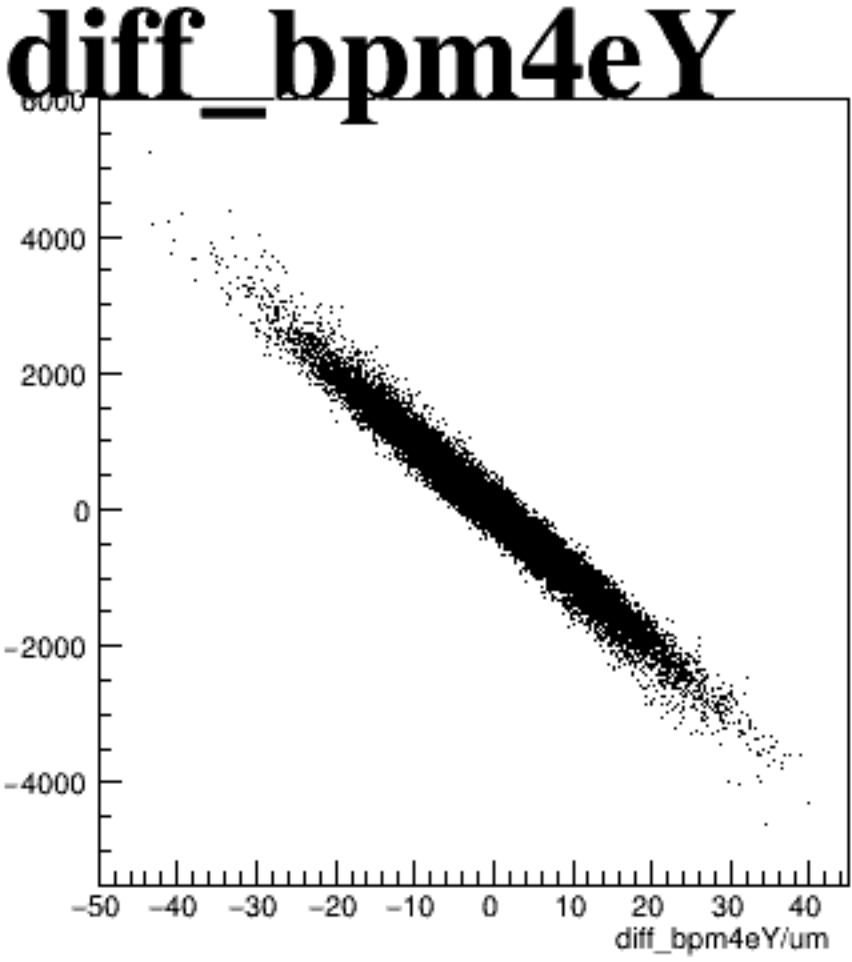
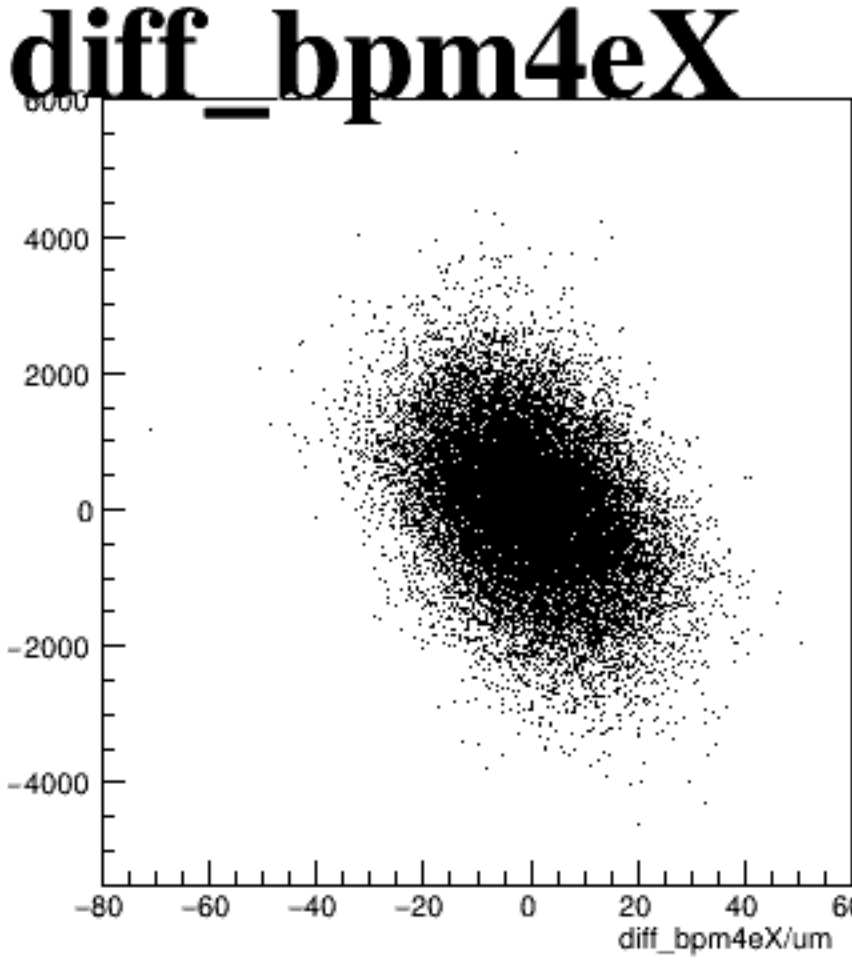
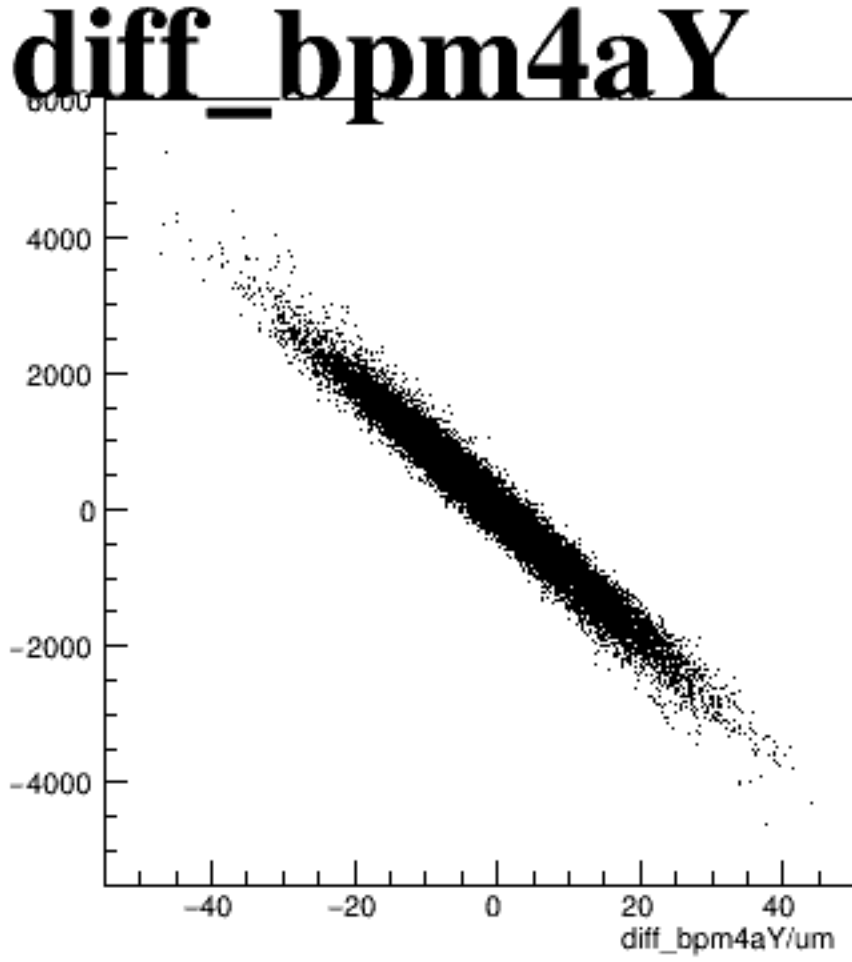
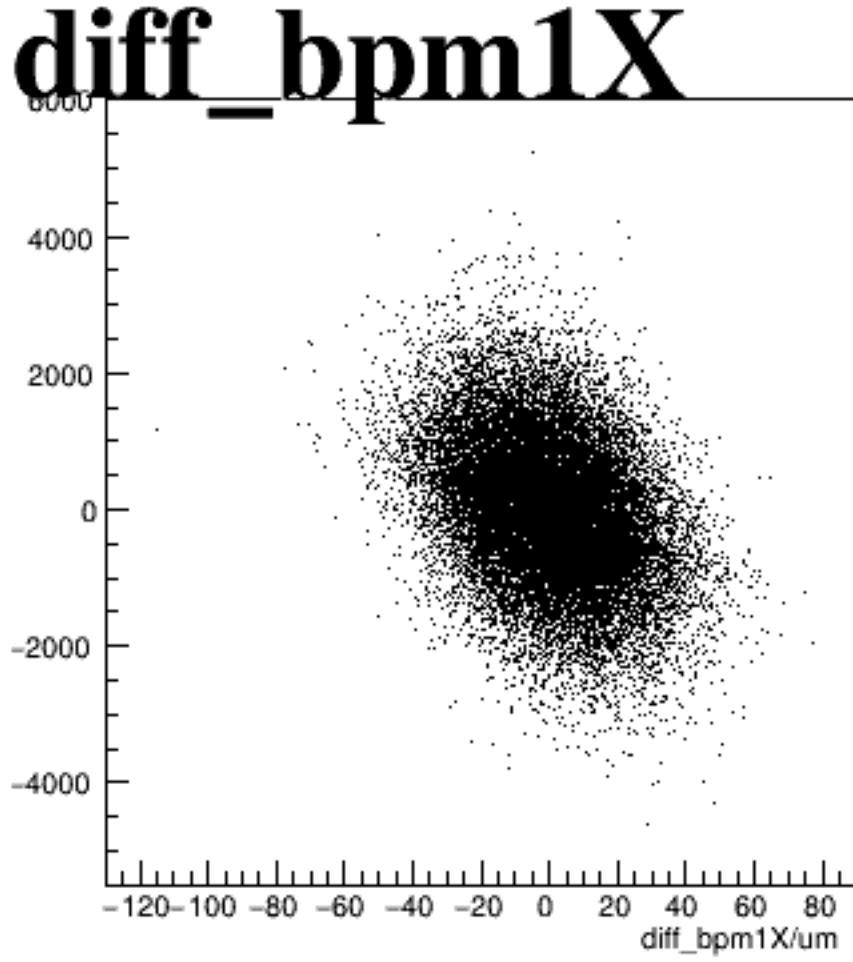
reg_asym_sam5



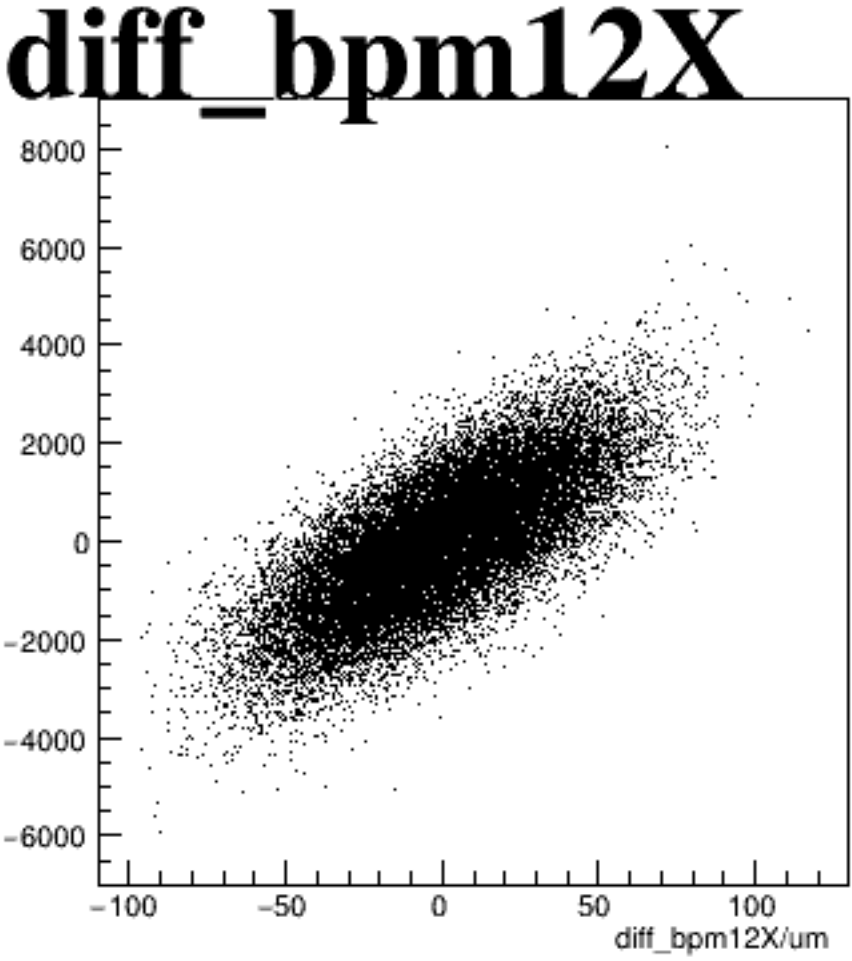
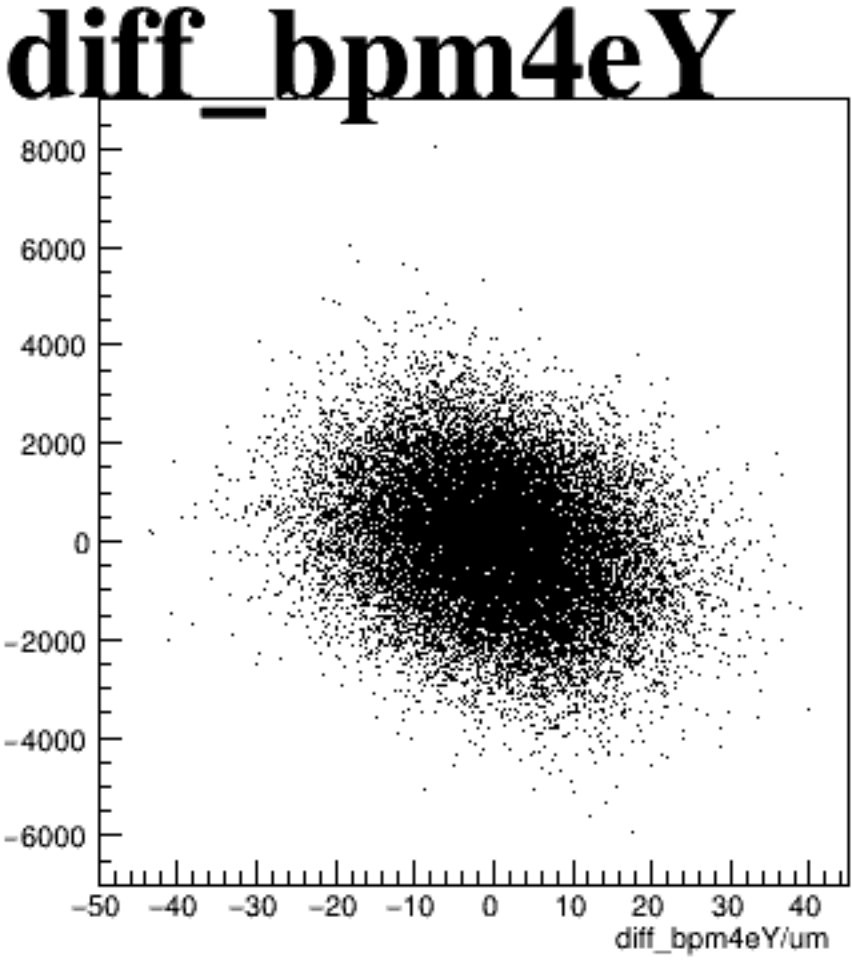
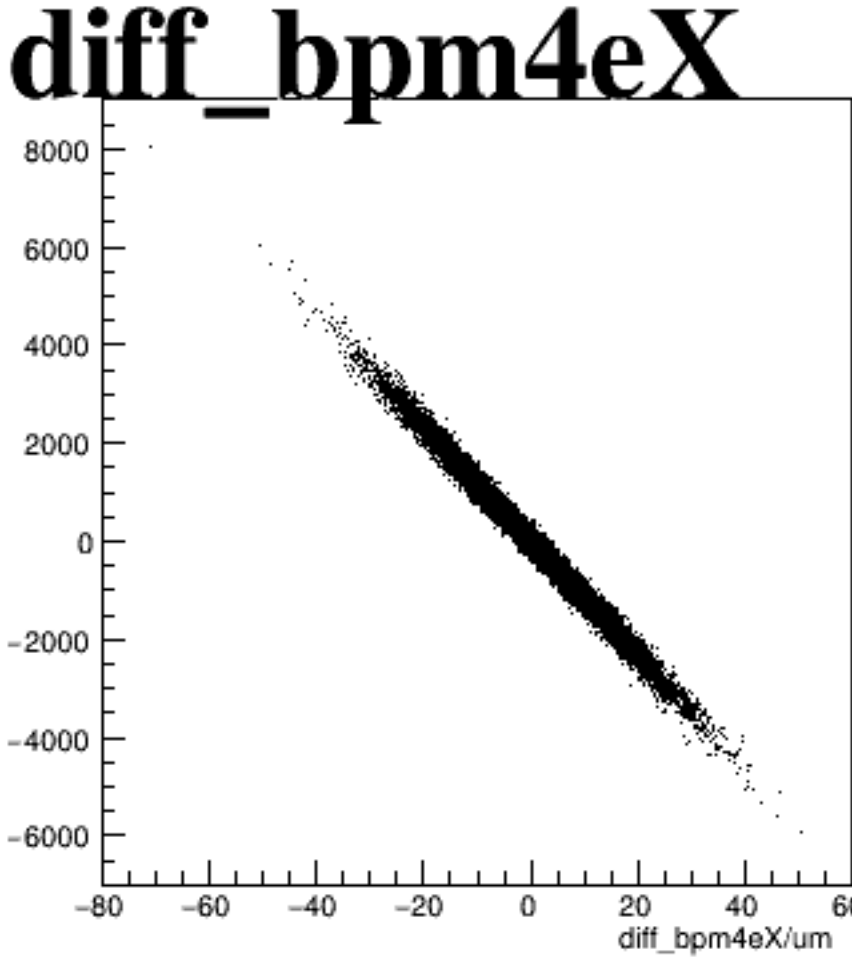
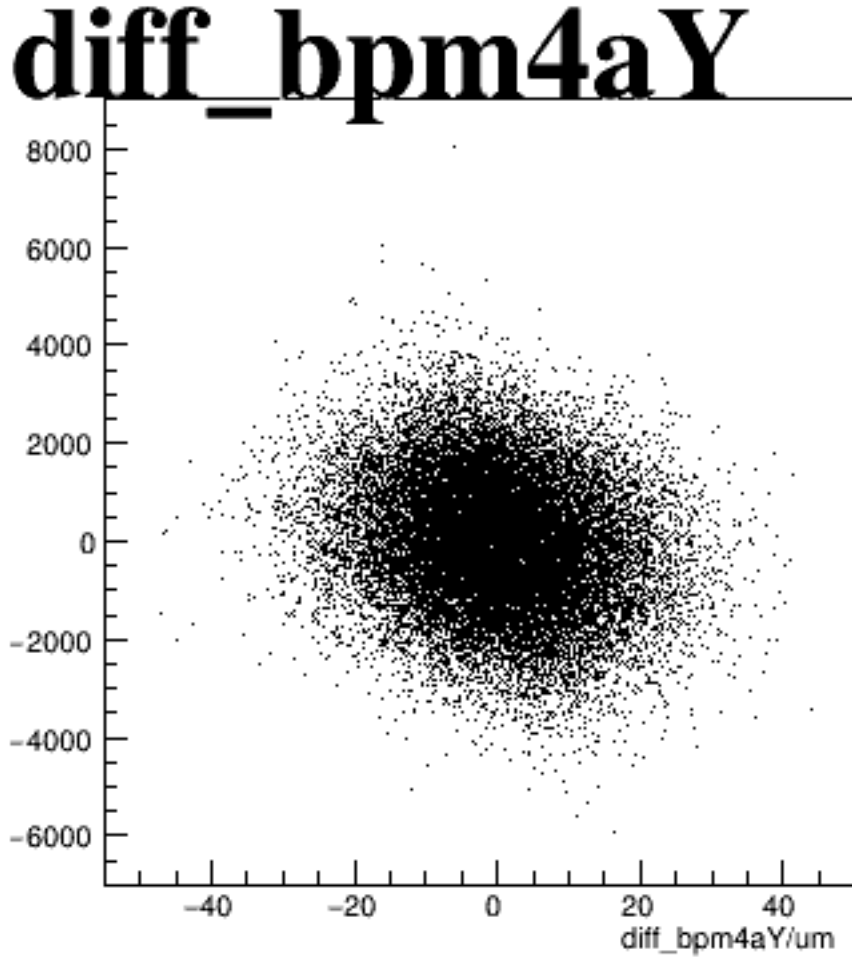
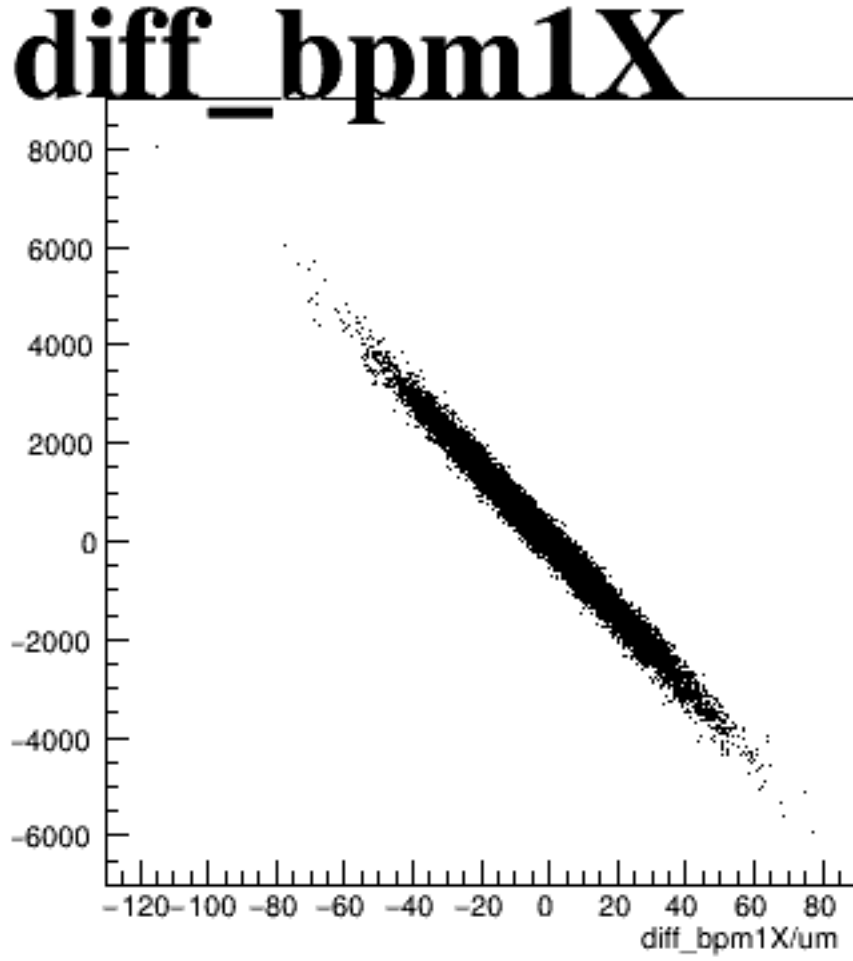
reg_asym_sam7



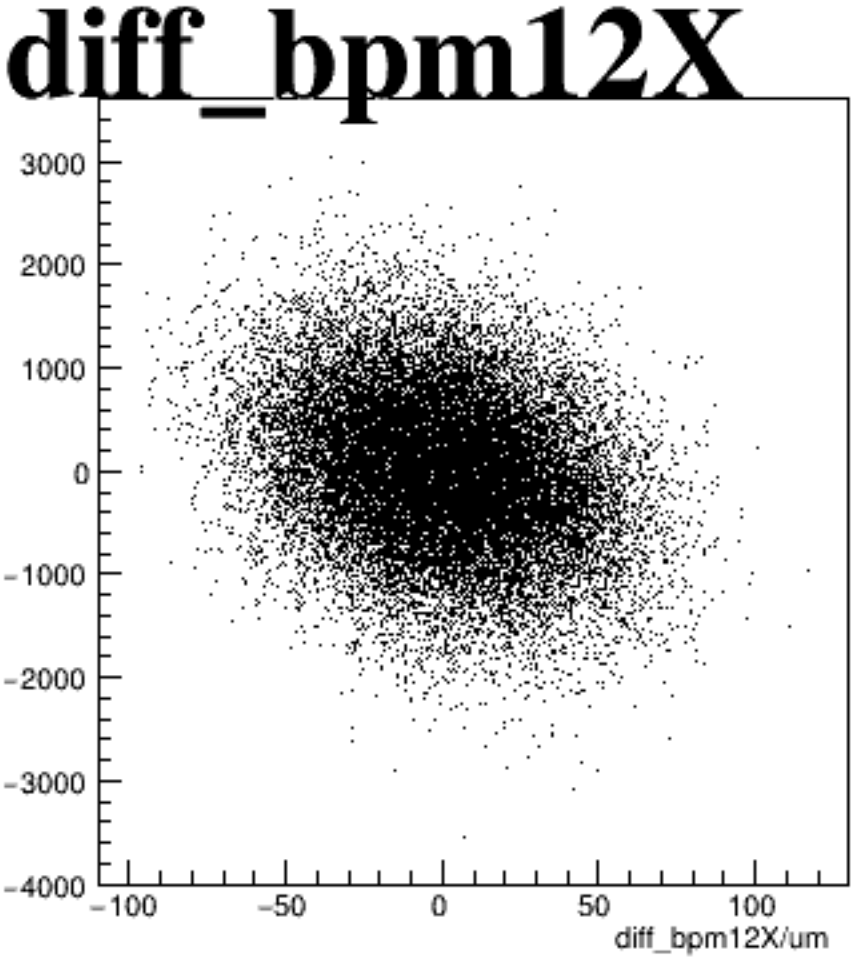
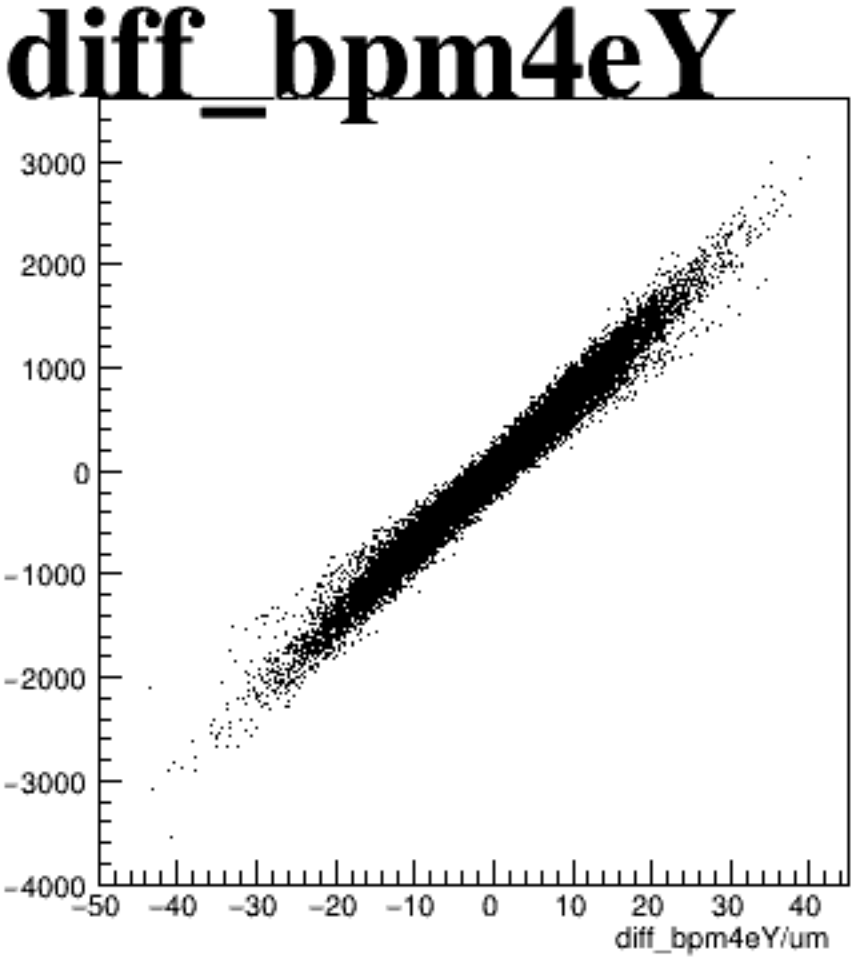
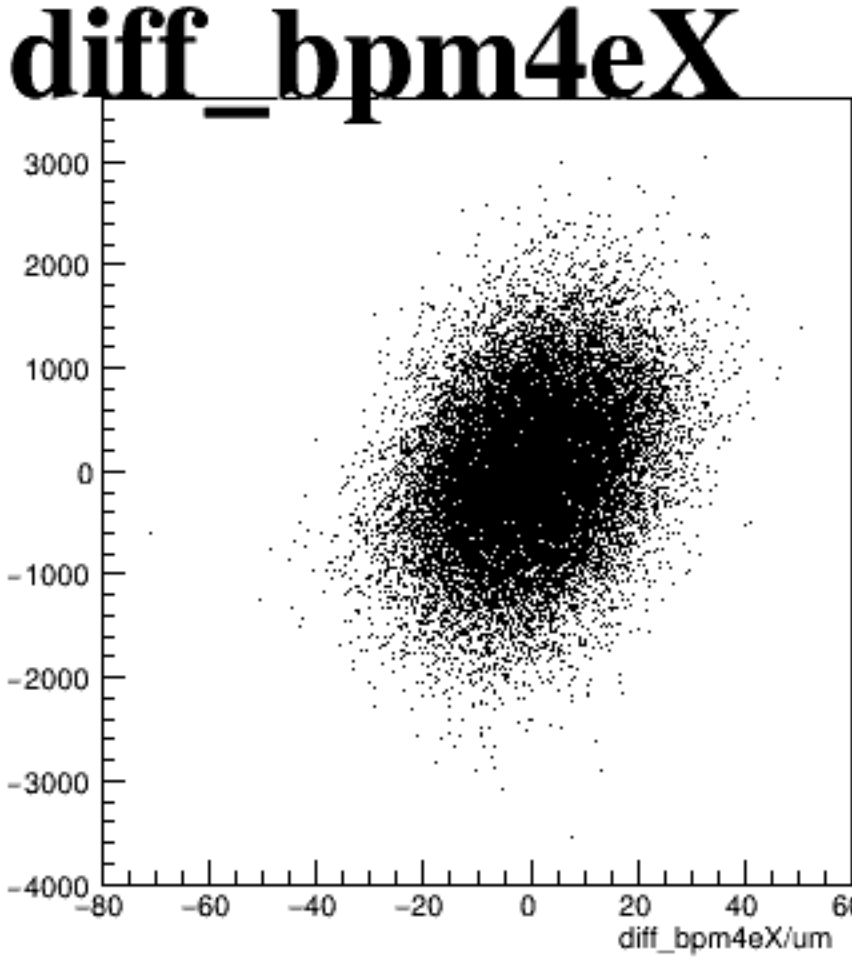
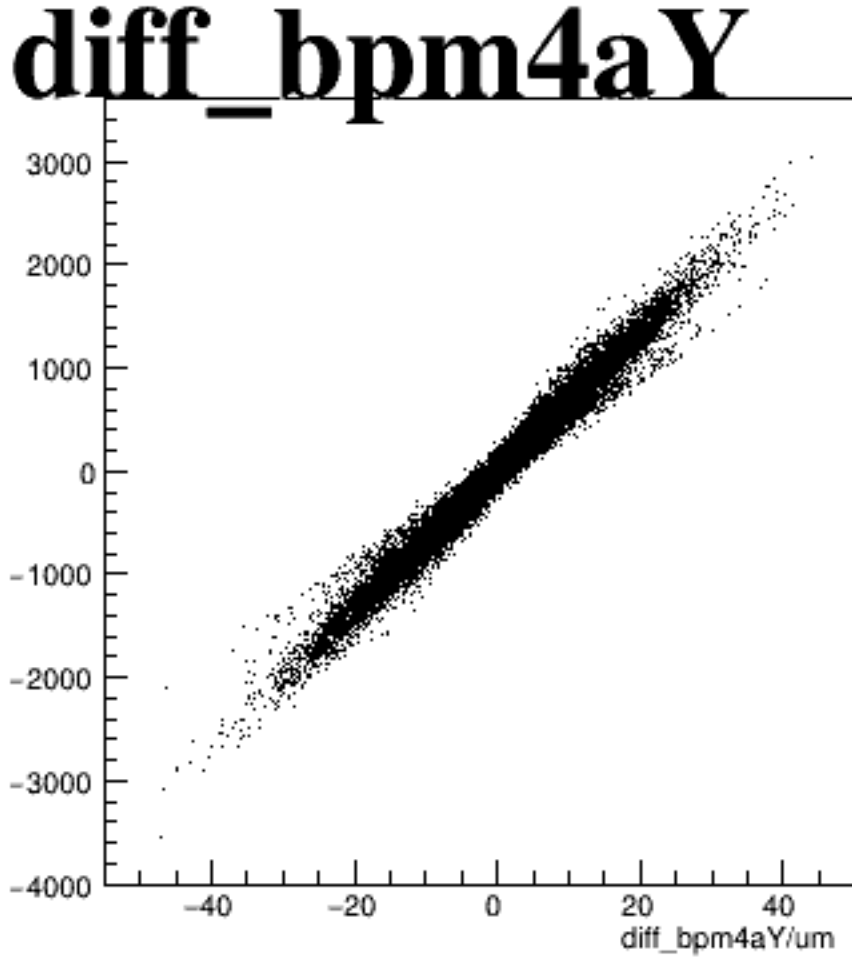
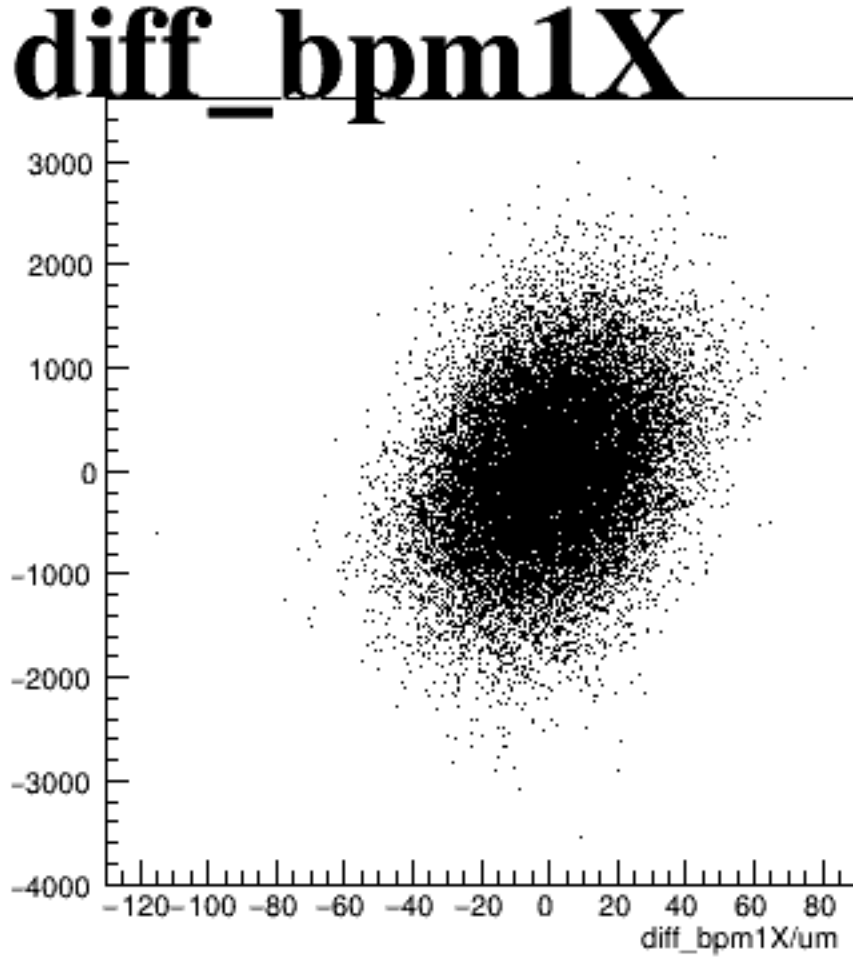
asym_sam1



asym_sam3



asym_sam5



asym_sam7

