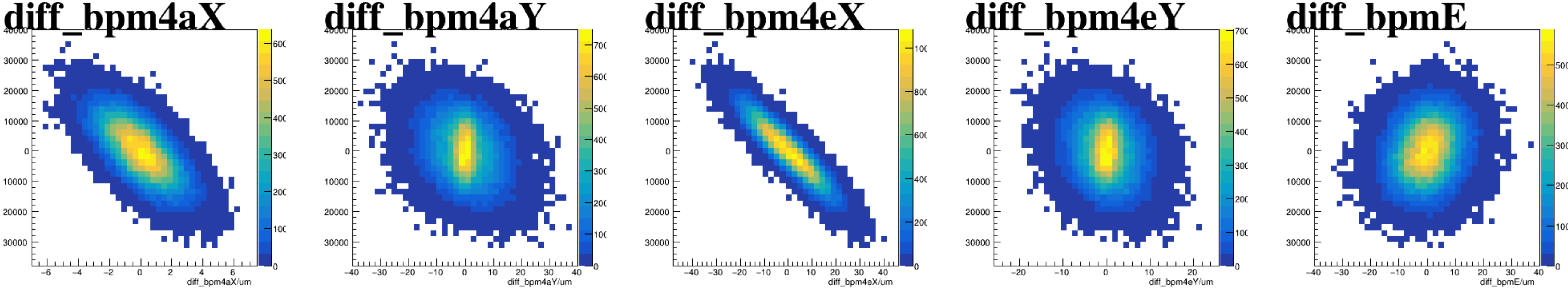
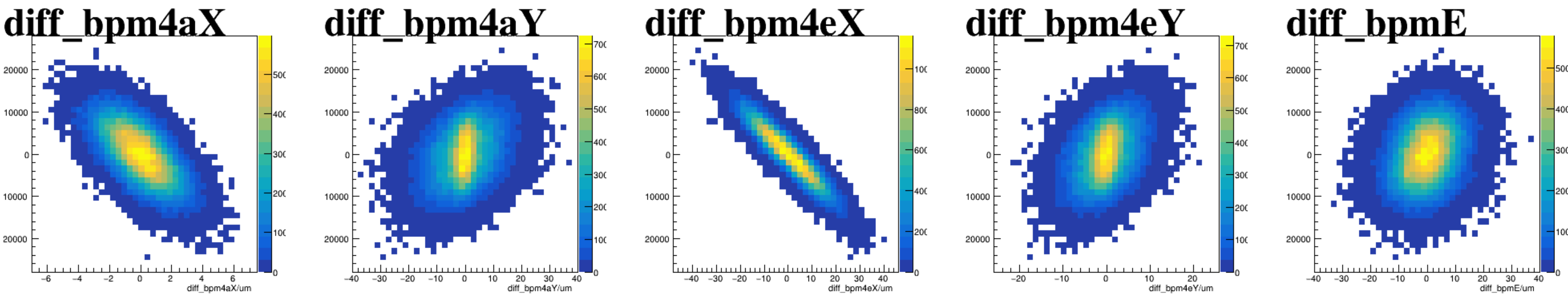


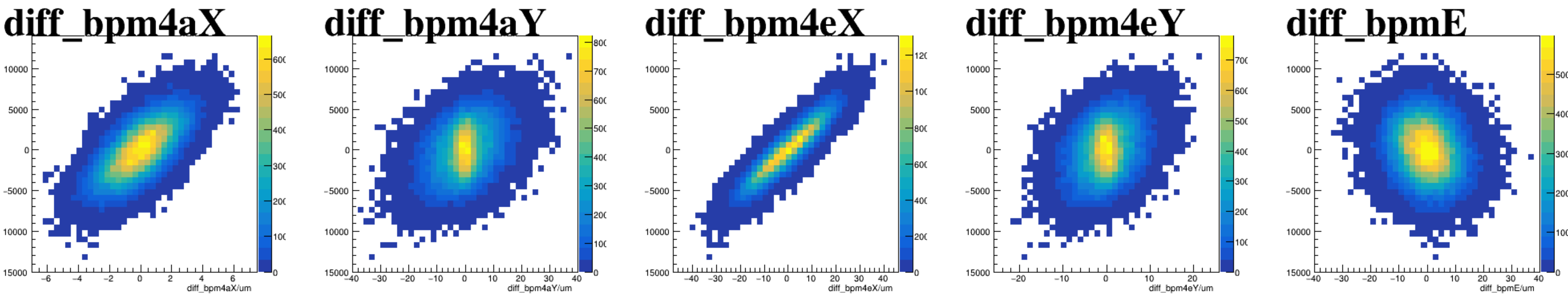
asym_sam2



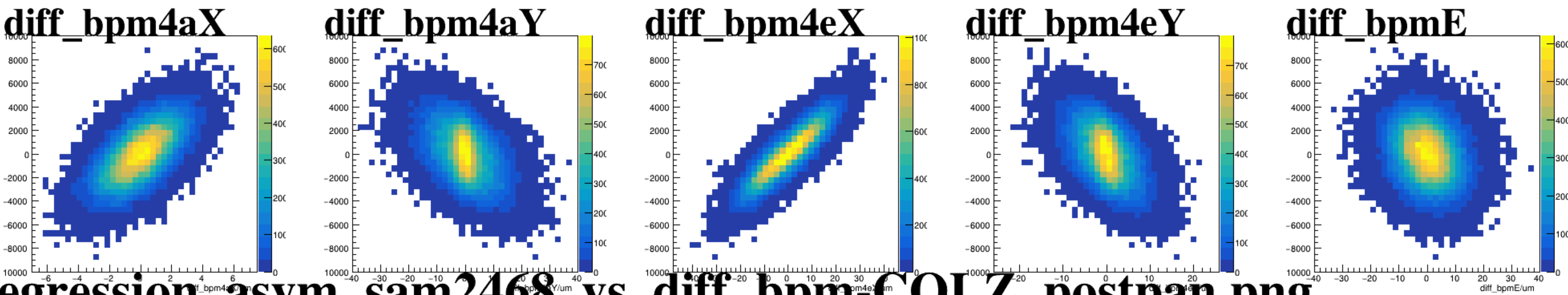
asym_sam4



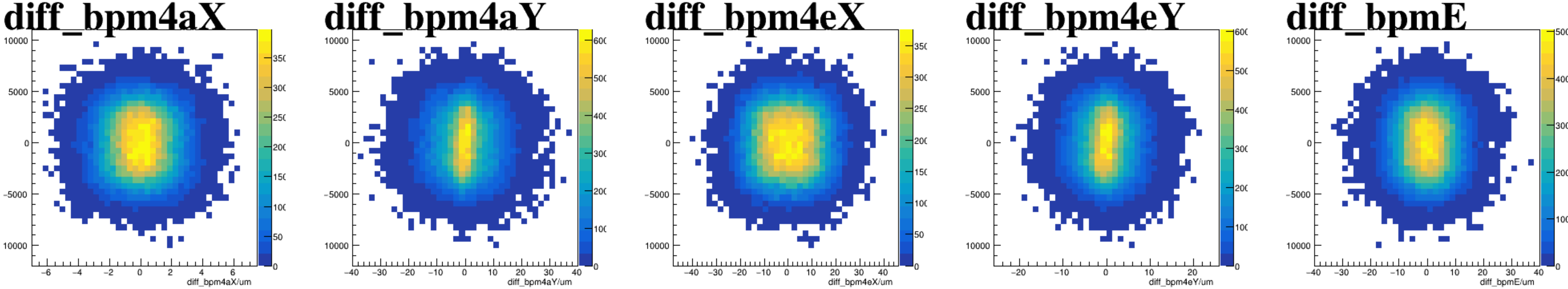
asym_sam6



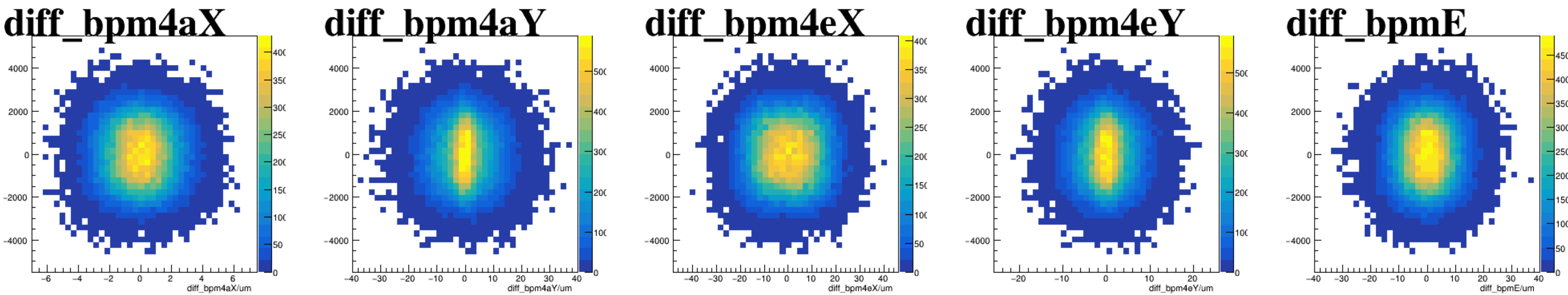
asym_sam8



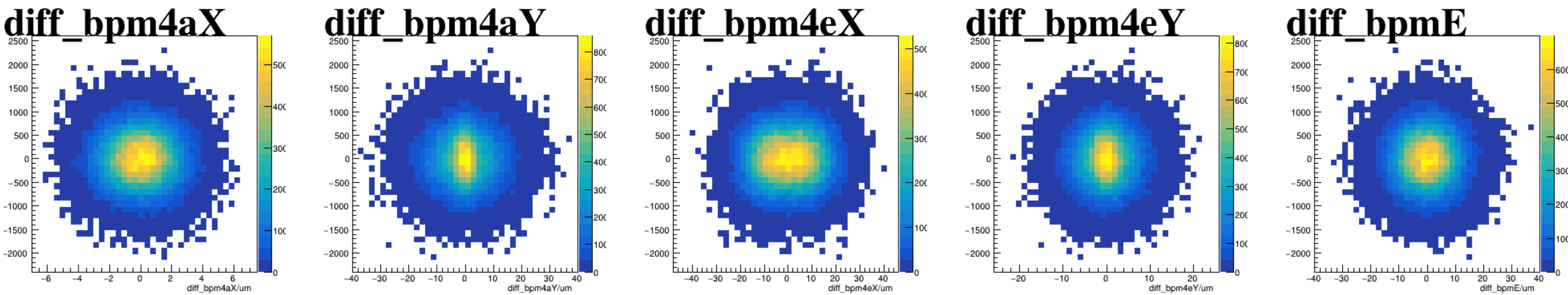
reg_asym_sam2



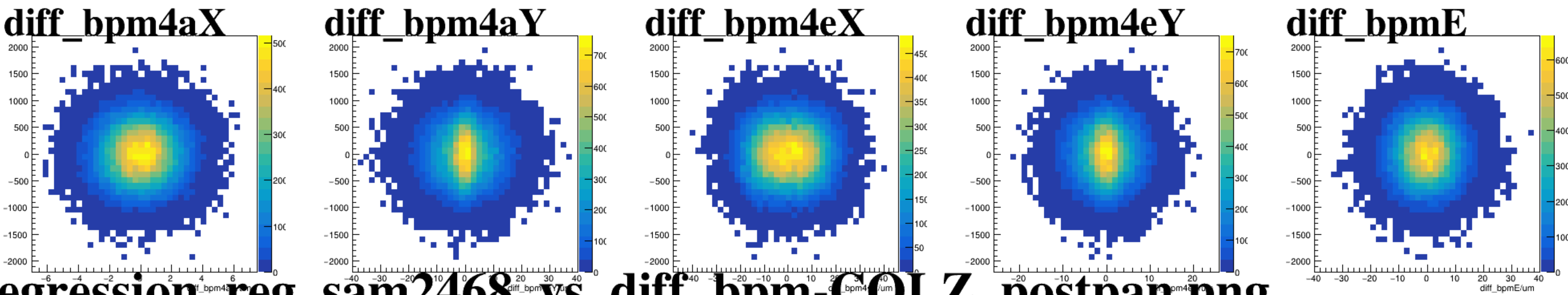
reg_asym_sam4



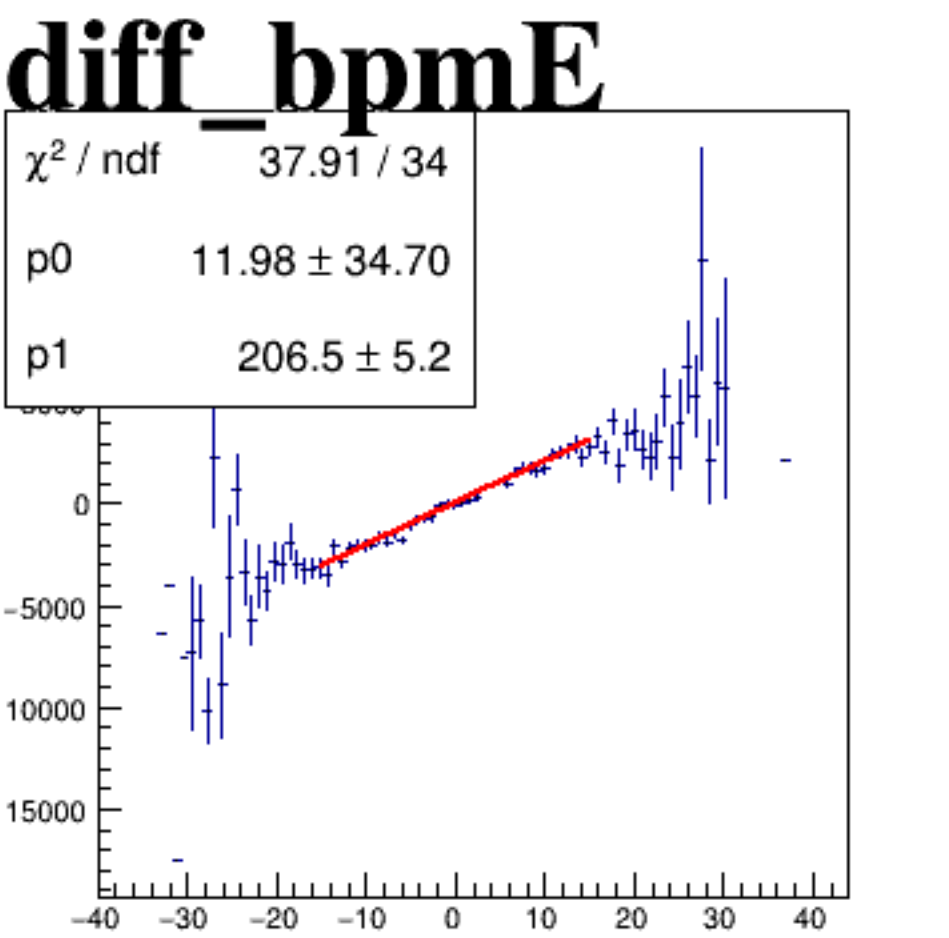
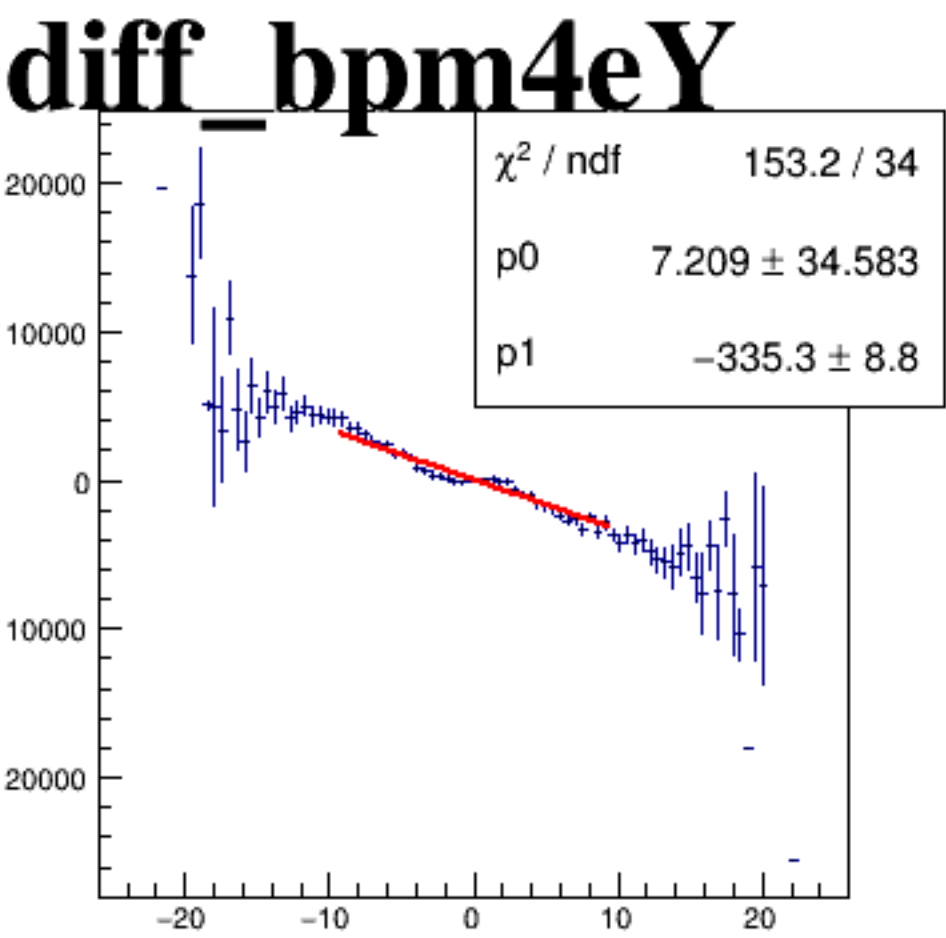
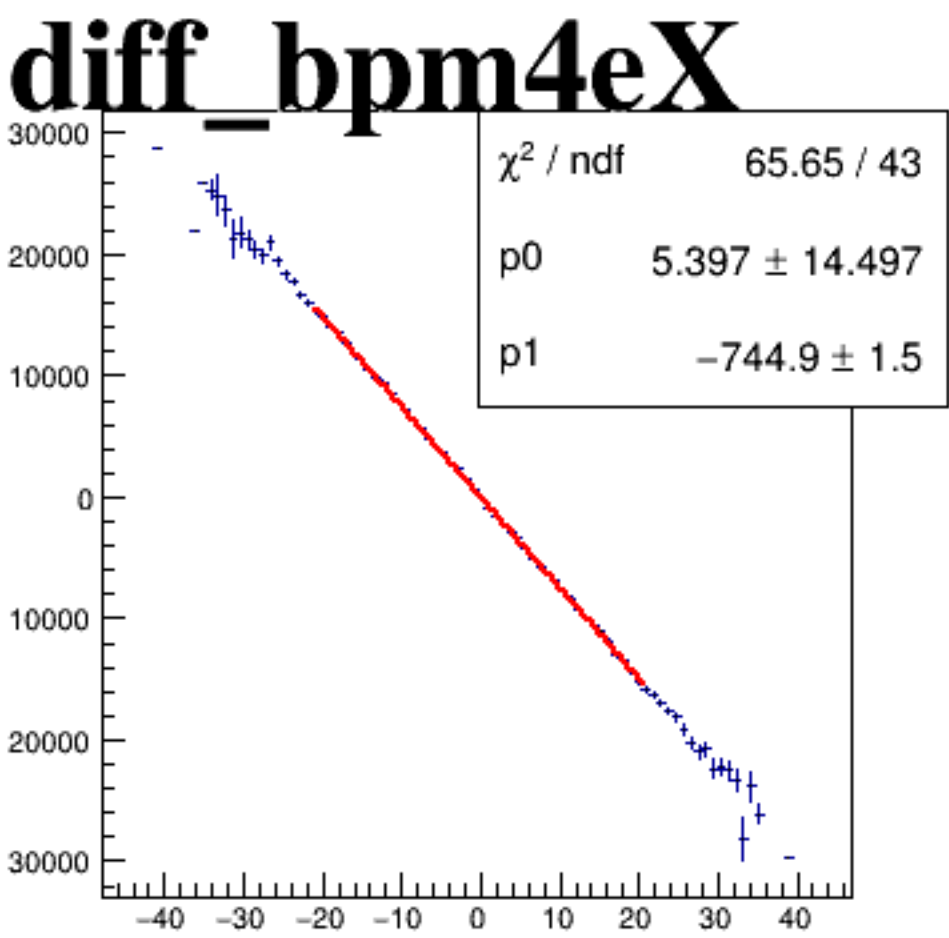
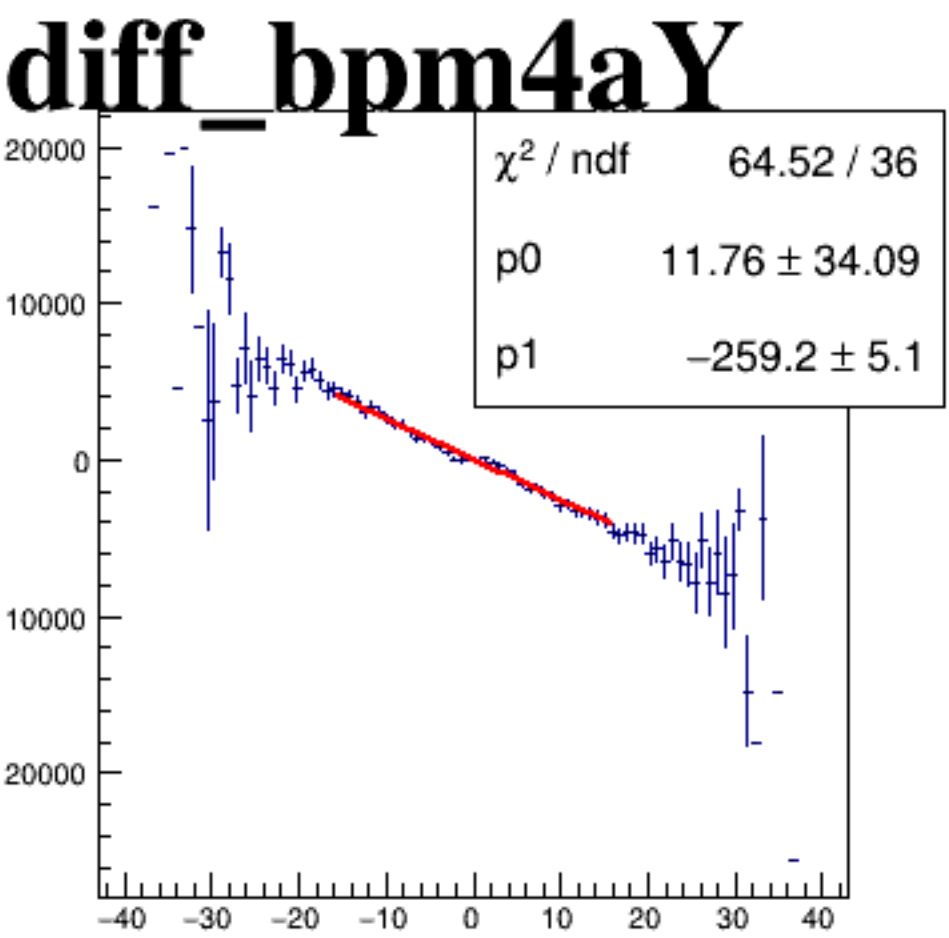
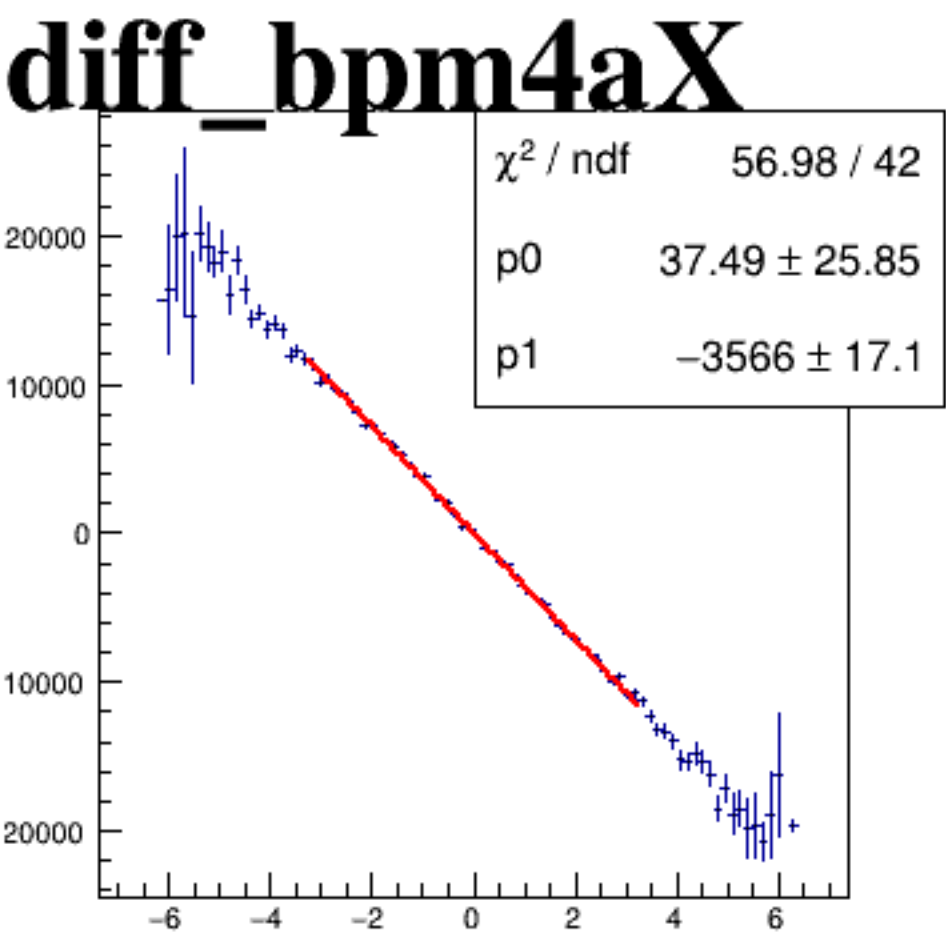
reg_asym_sam6



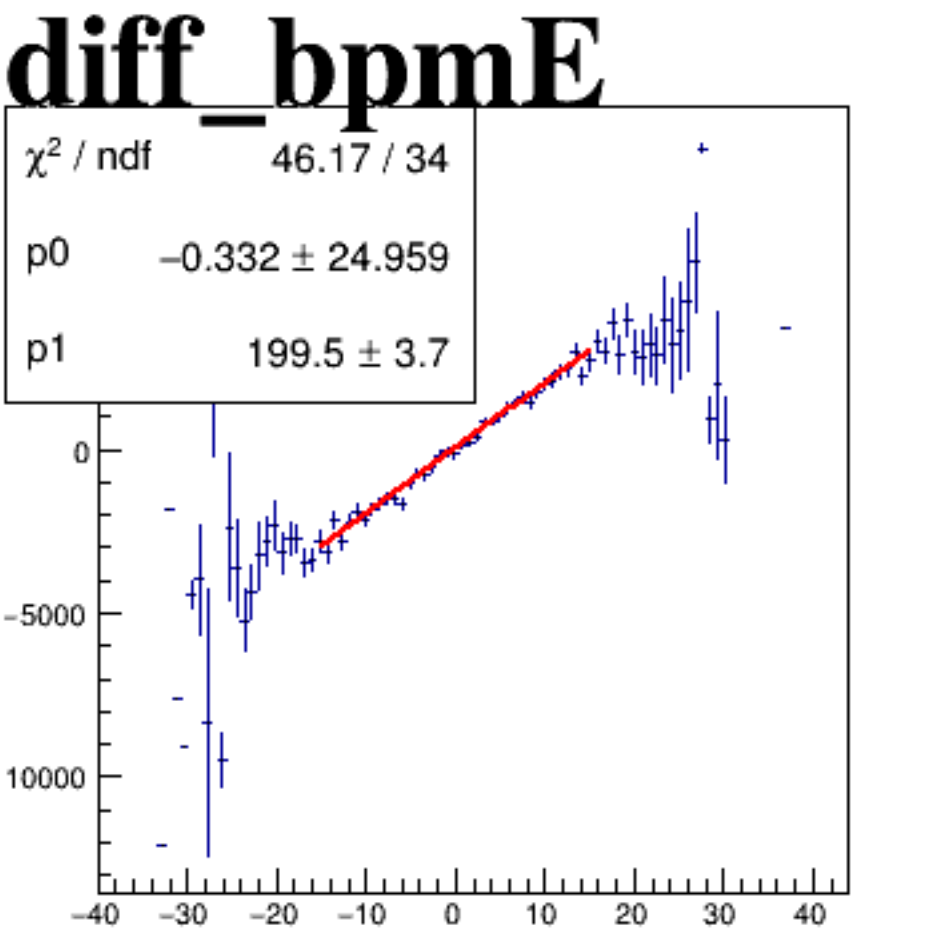
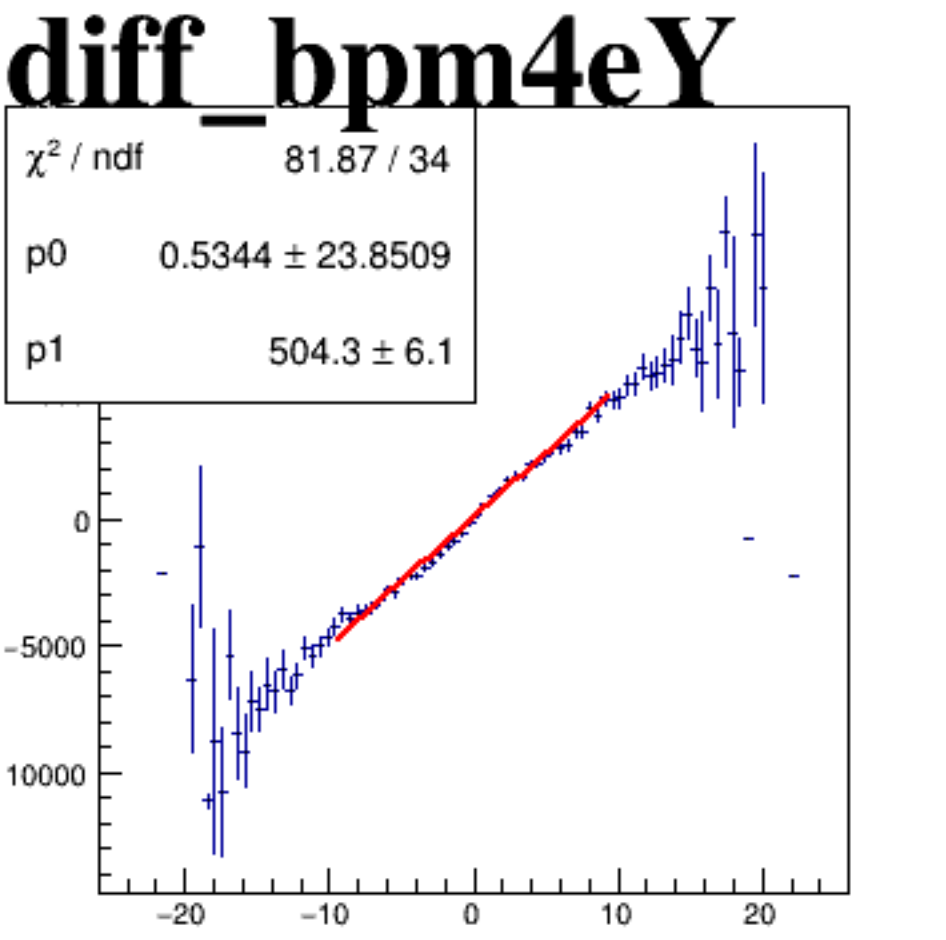
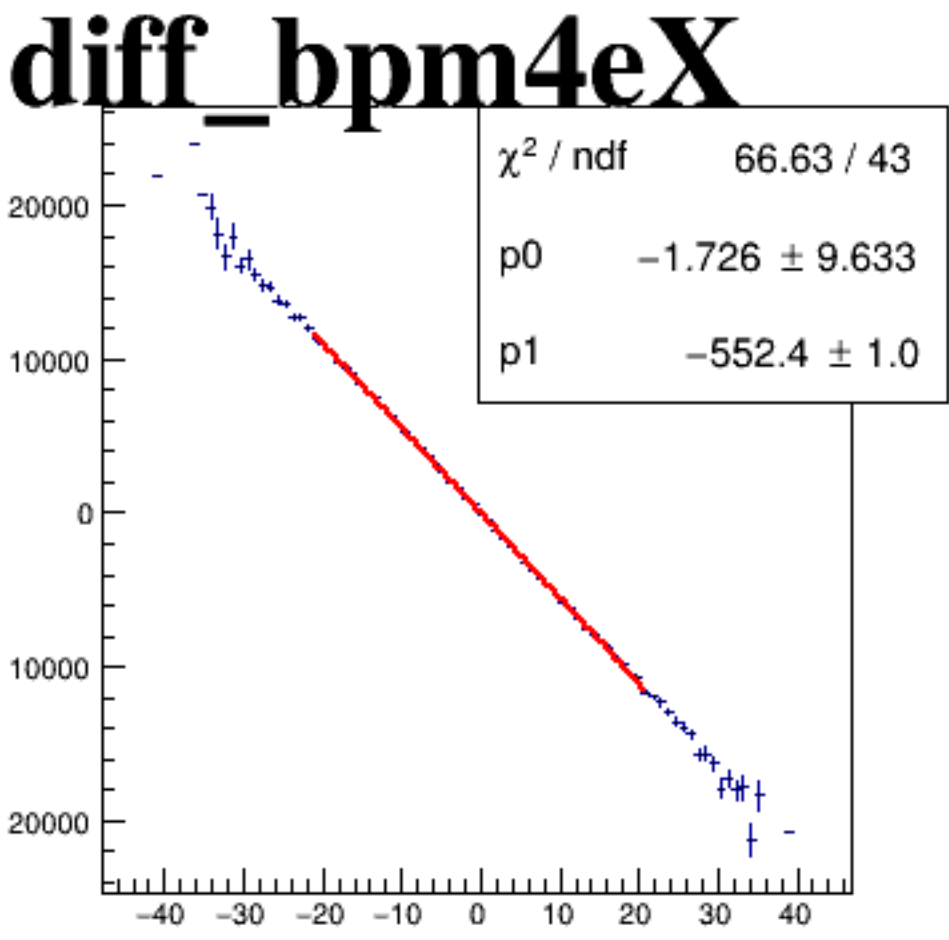
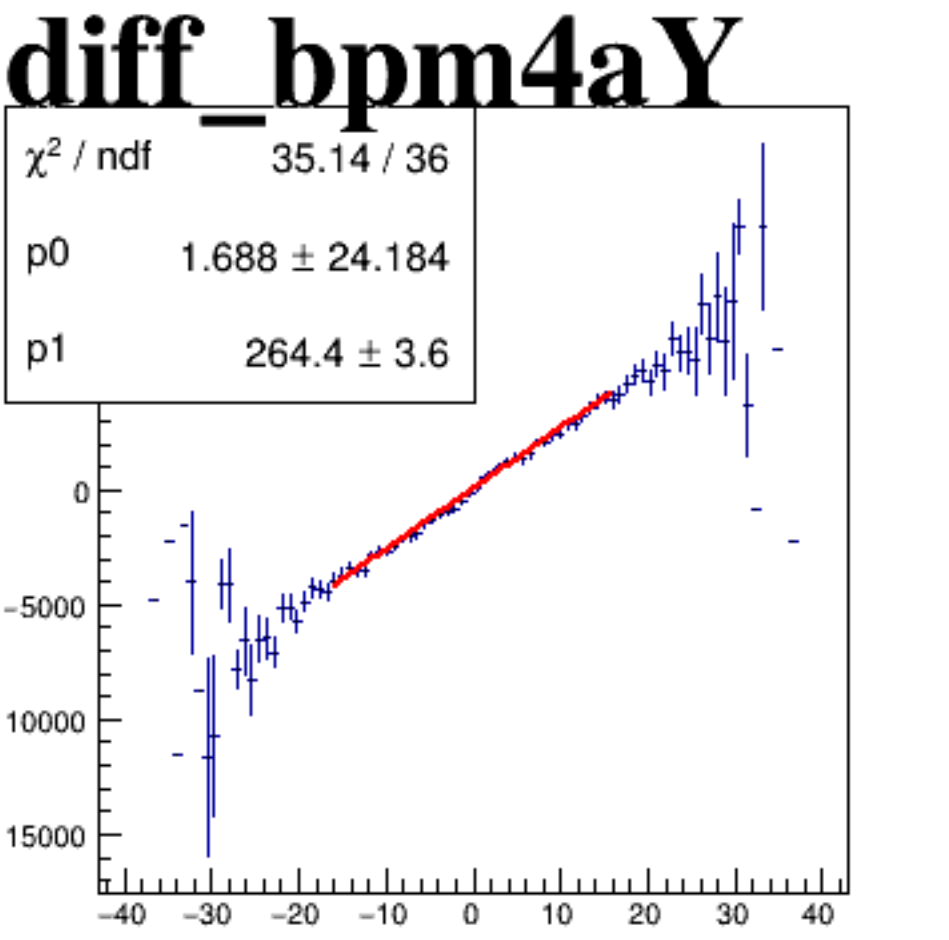
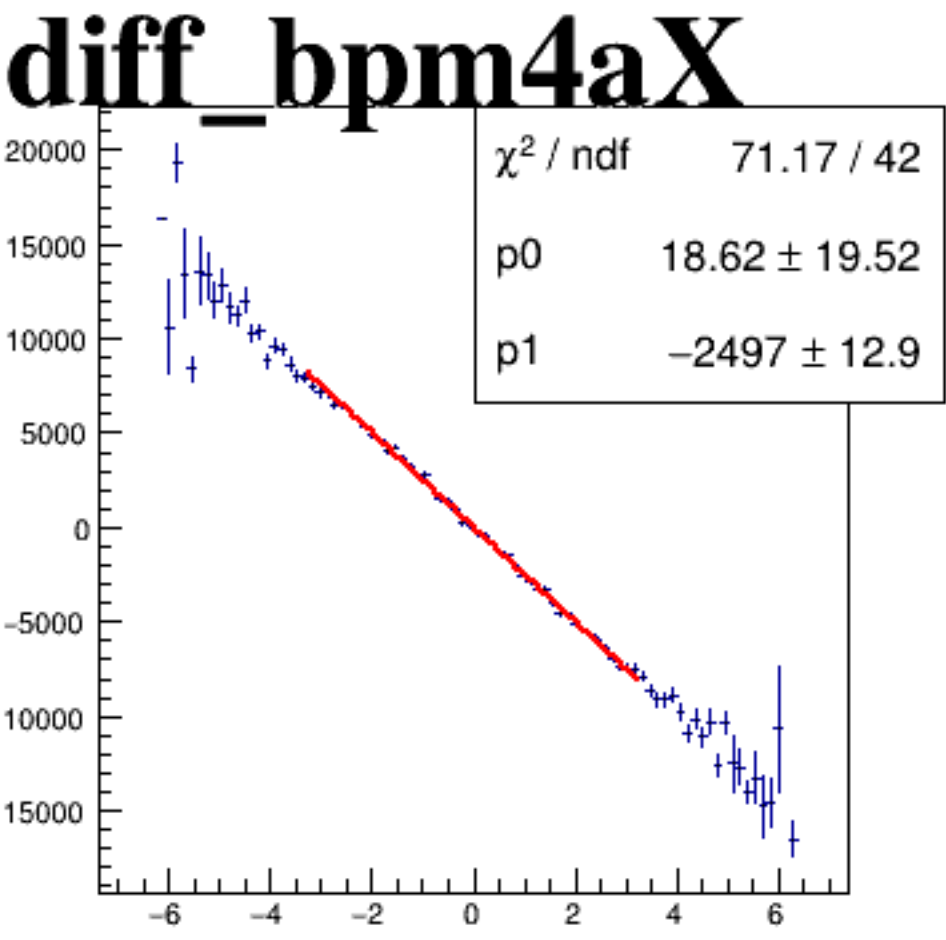
reg_asym_sam8



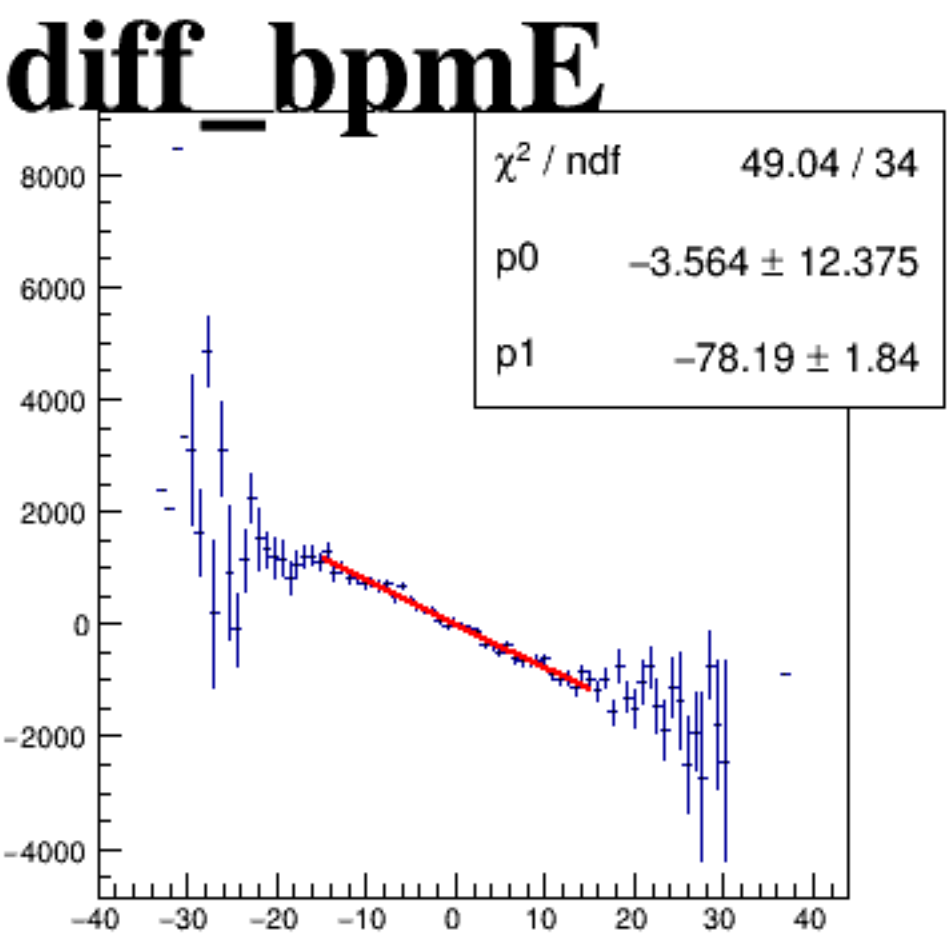
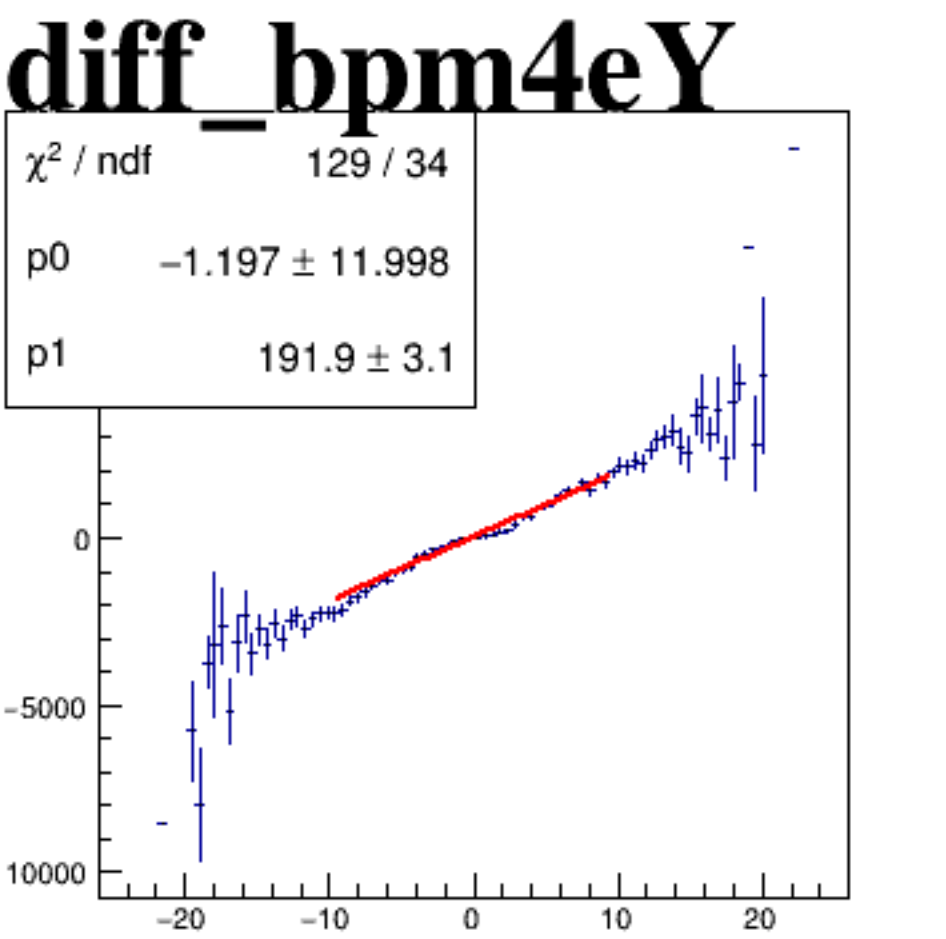
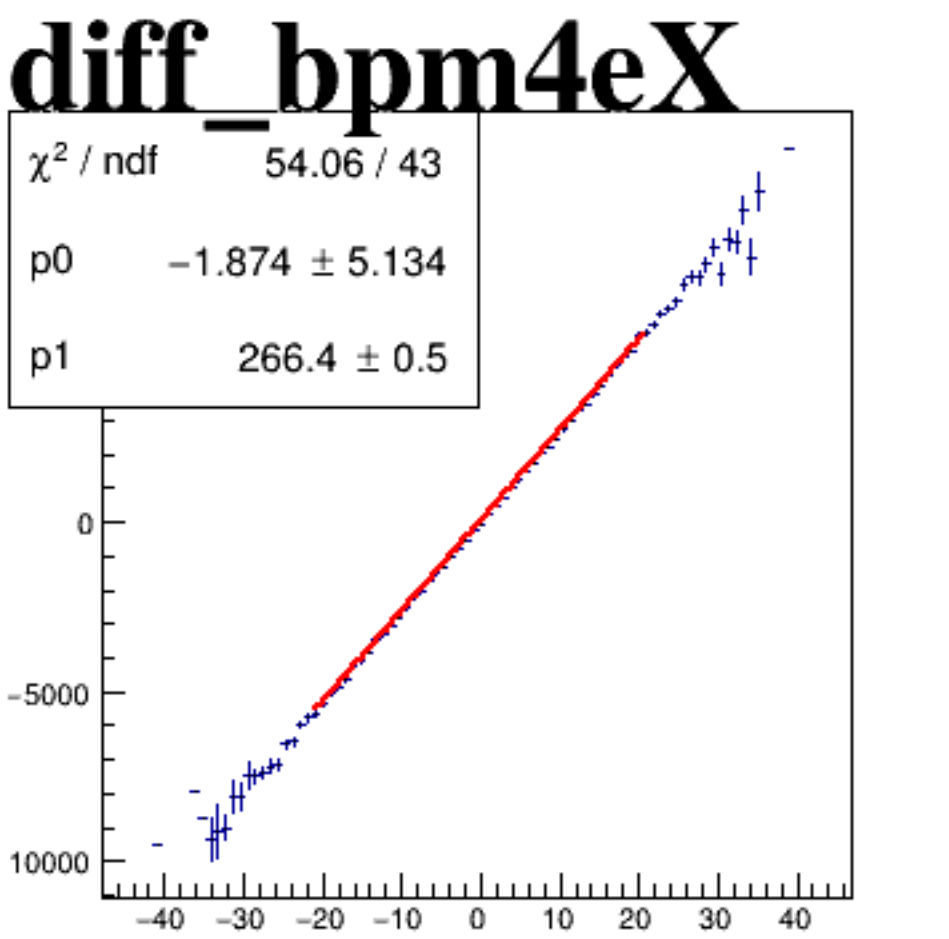
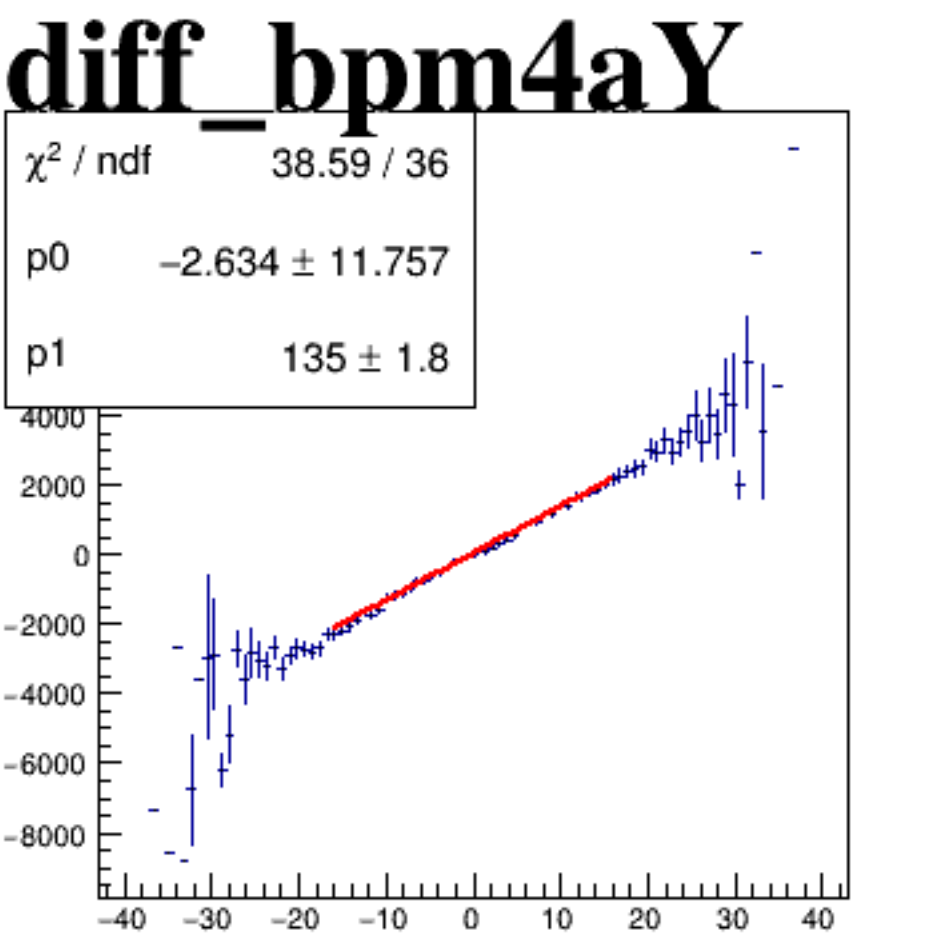
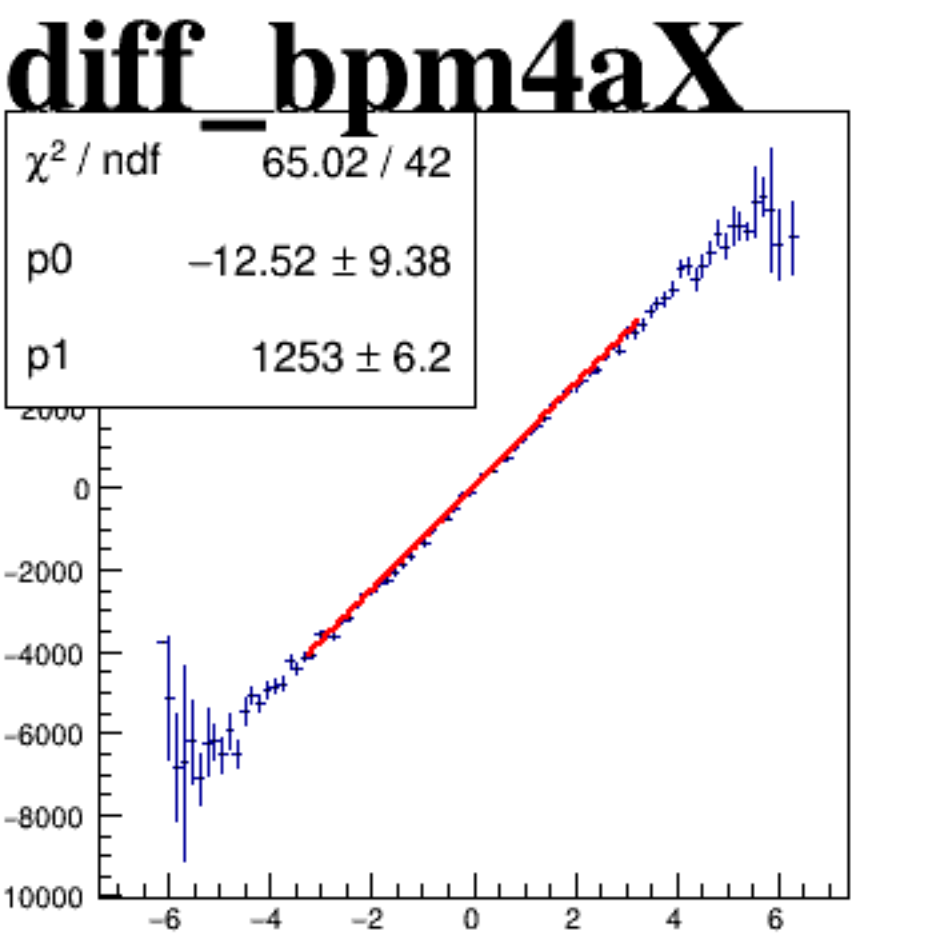
asym_sam2



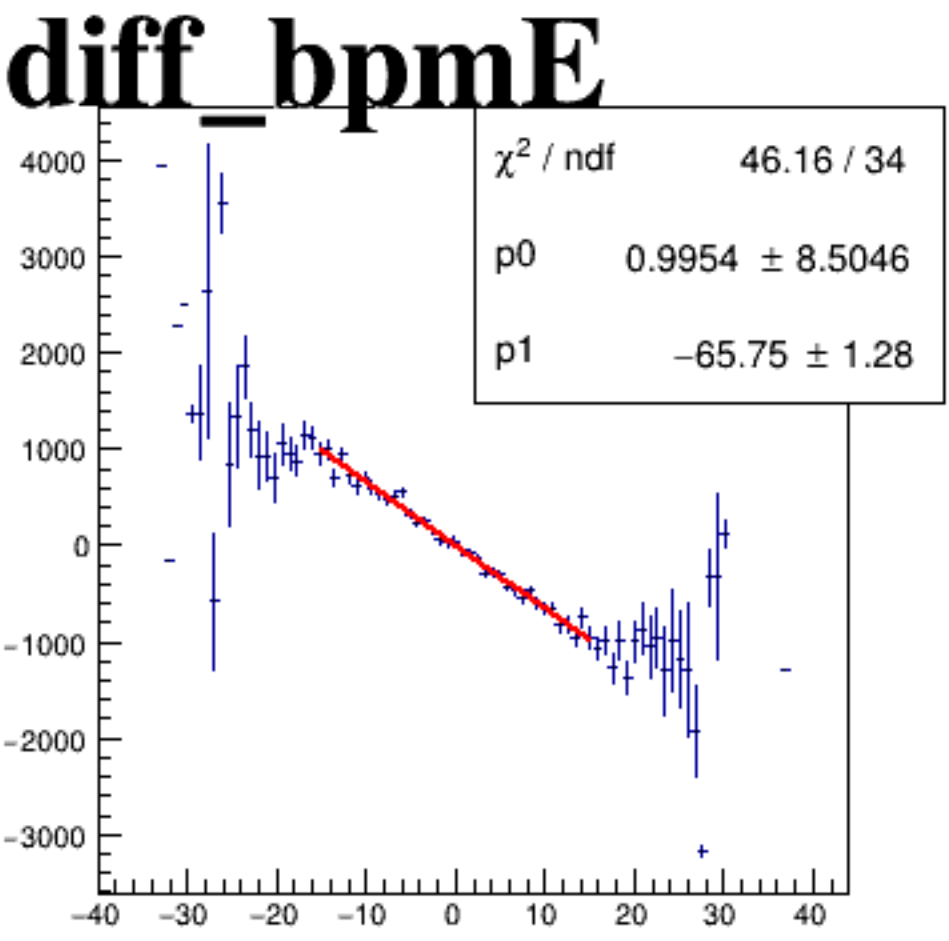
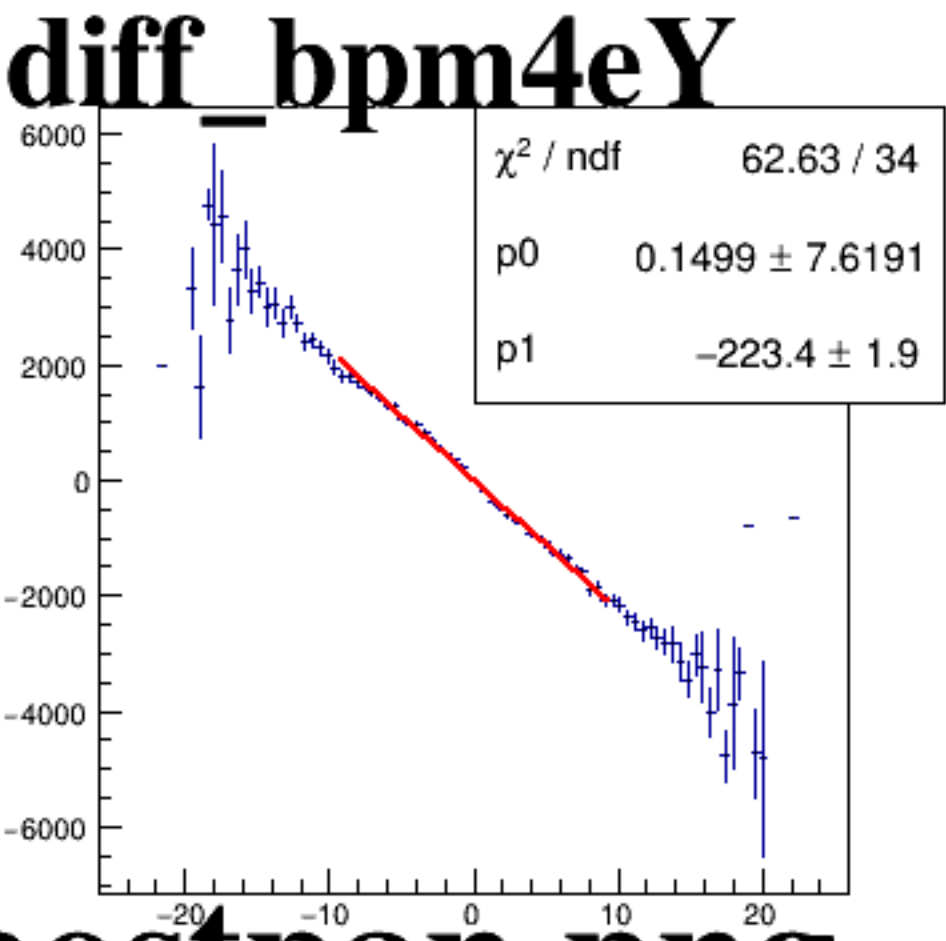
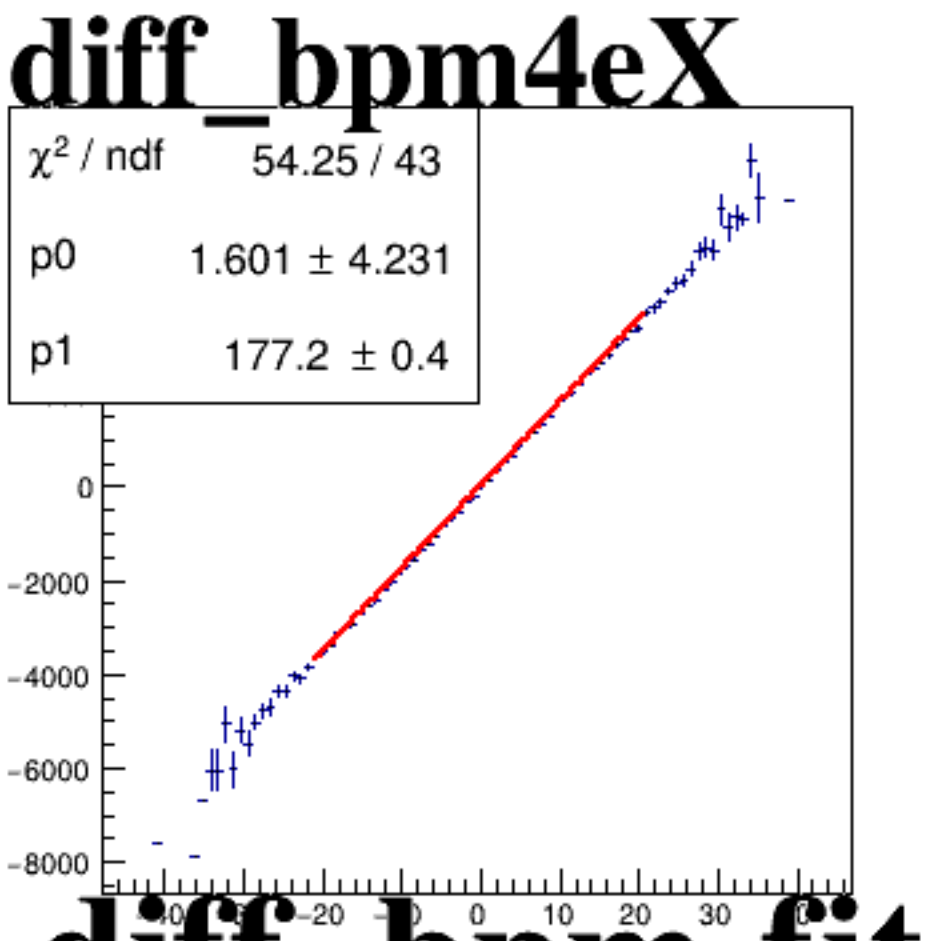
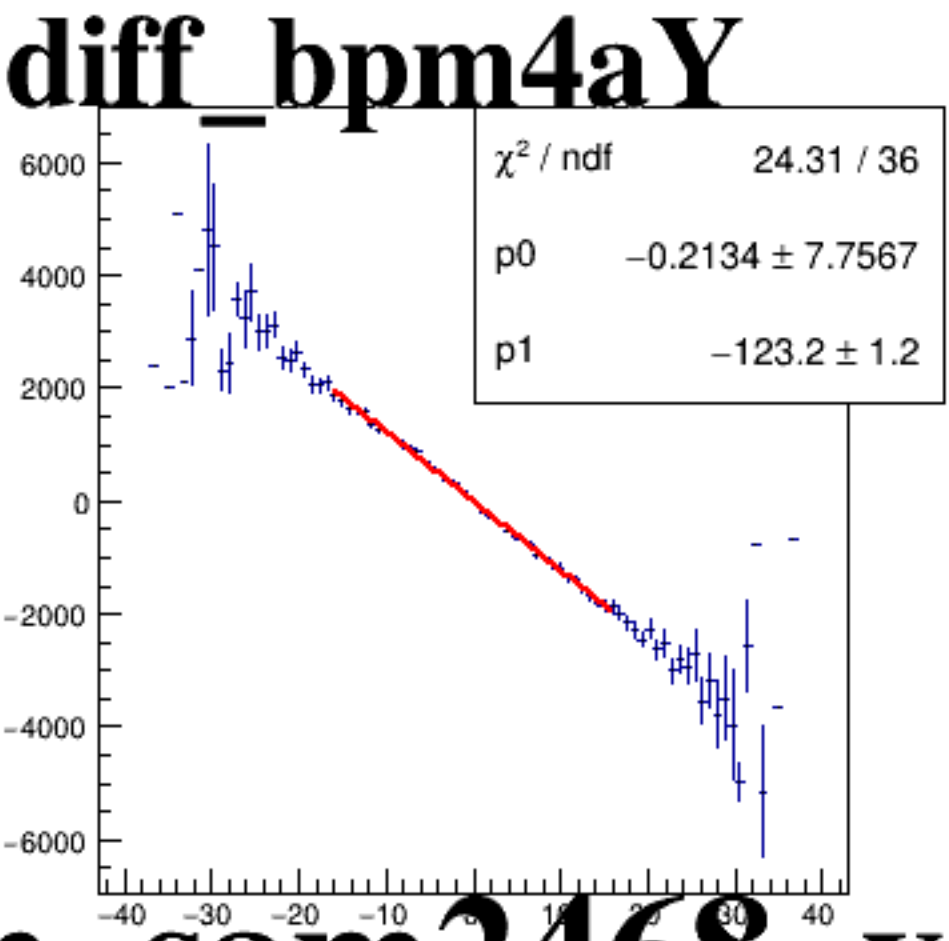
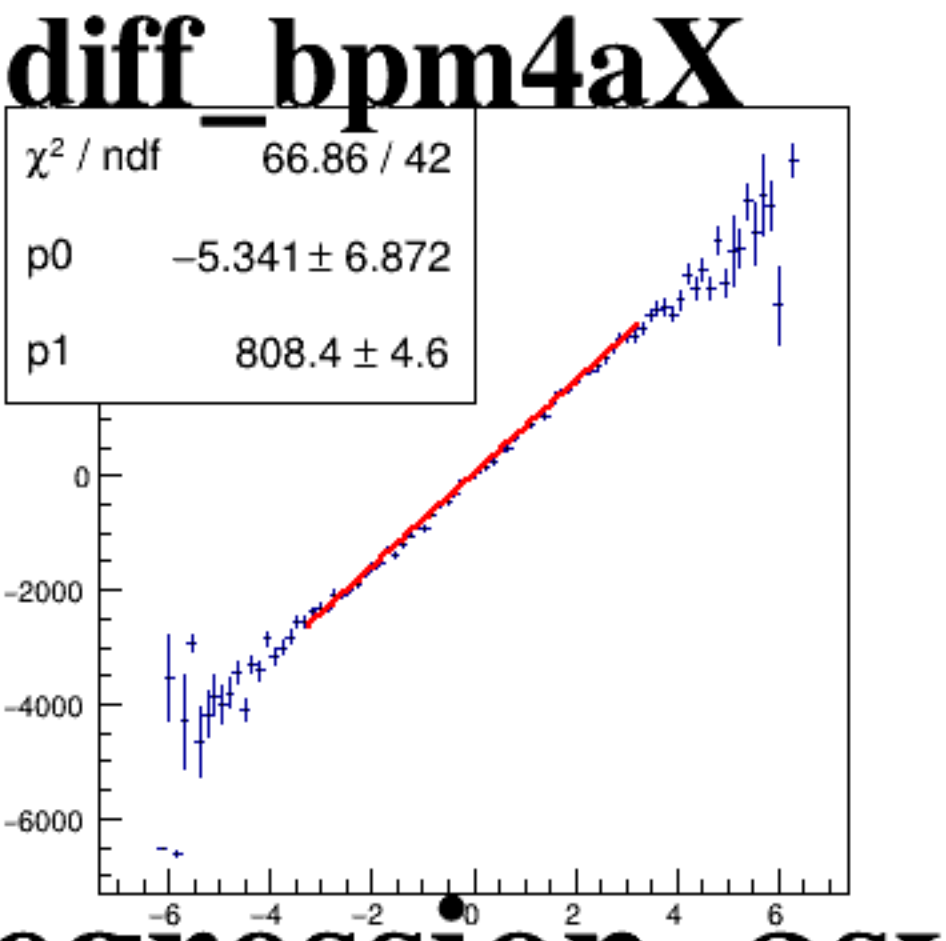
asym_sam4



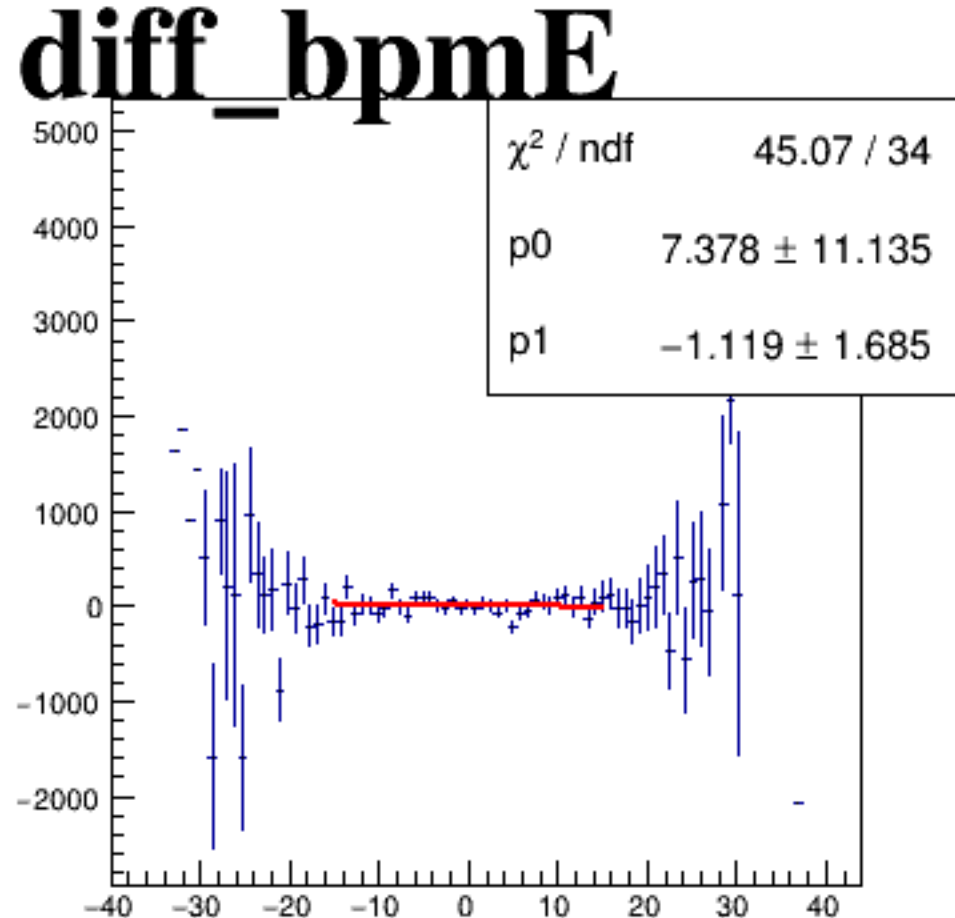
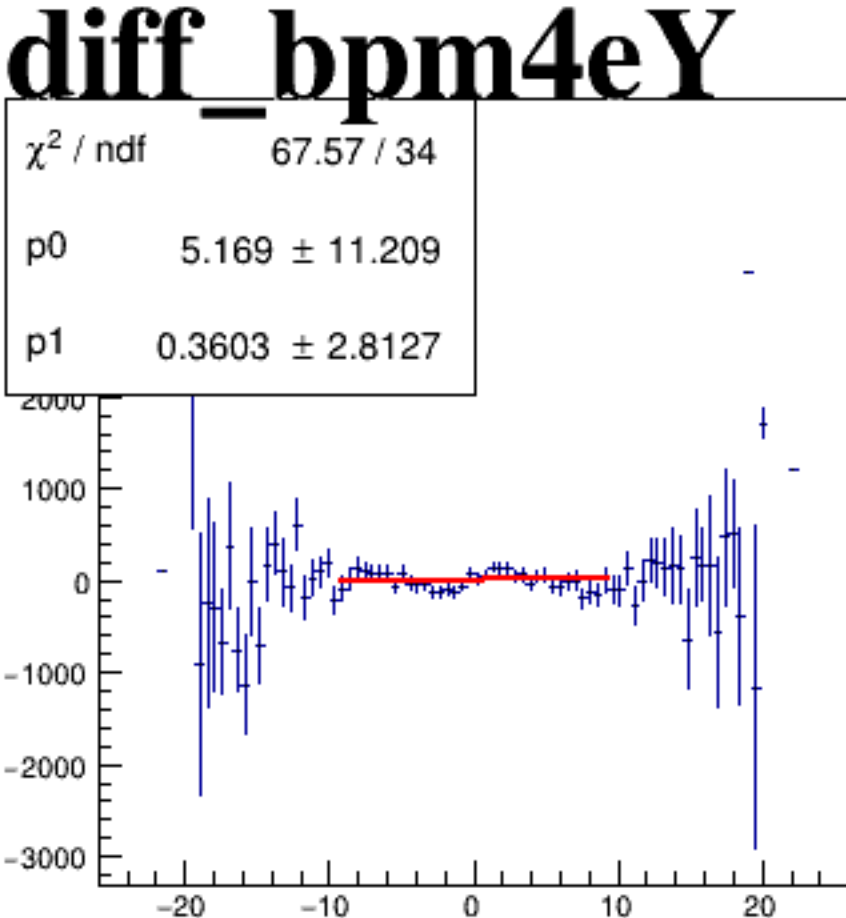
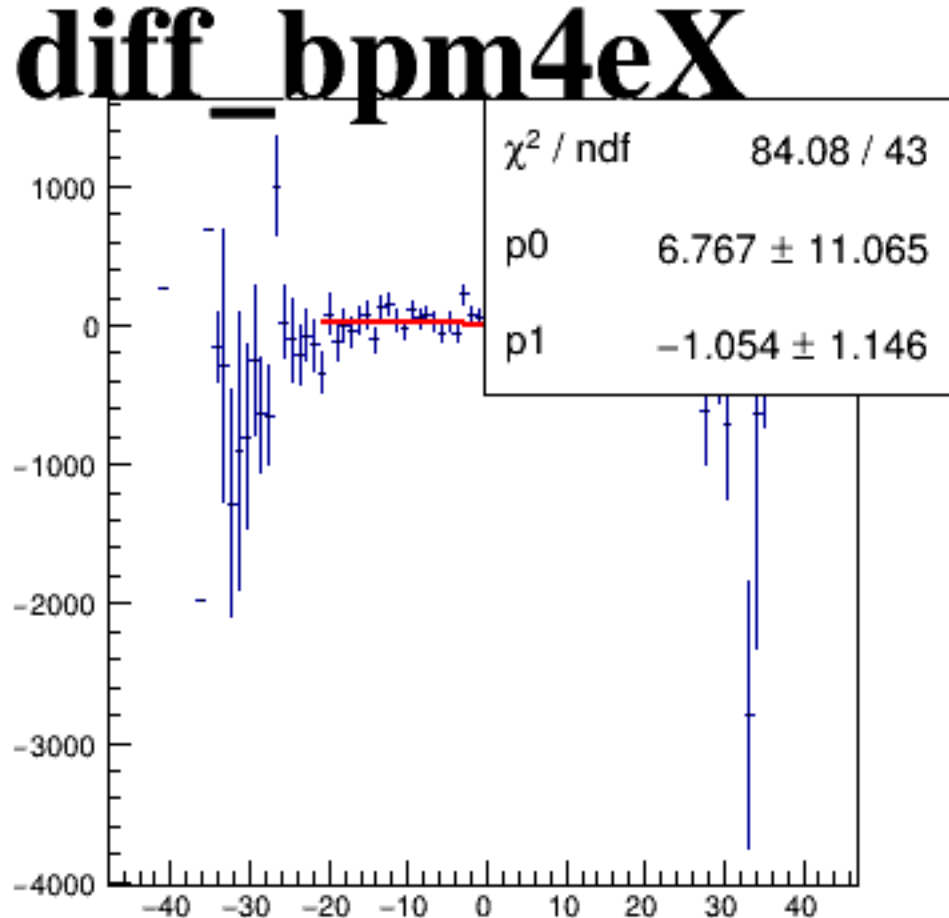
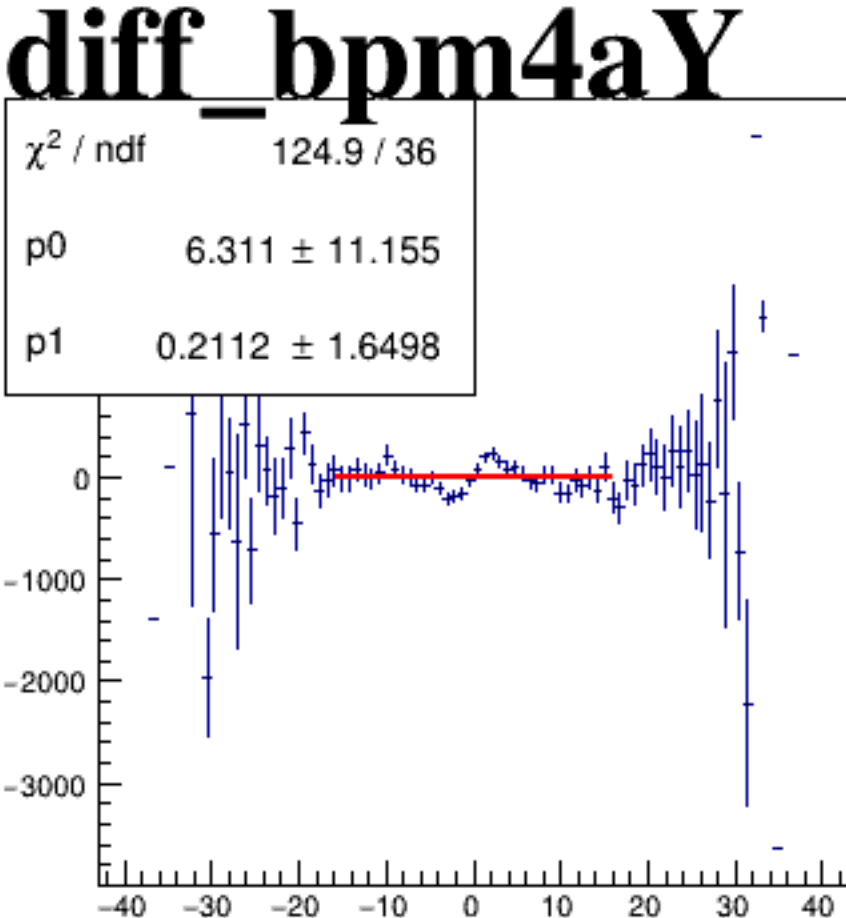
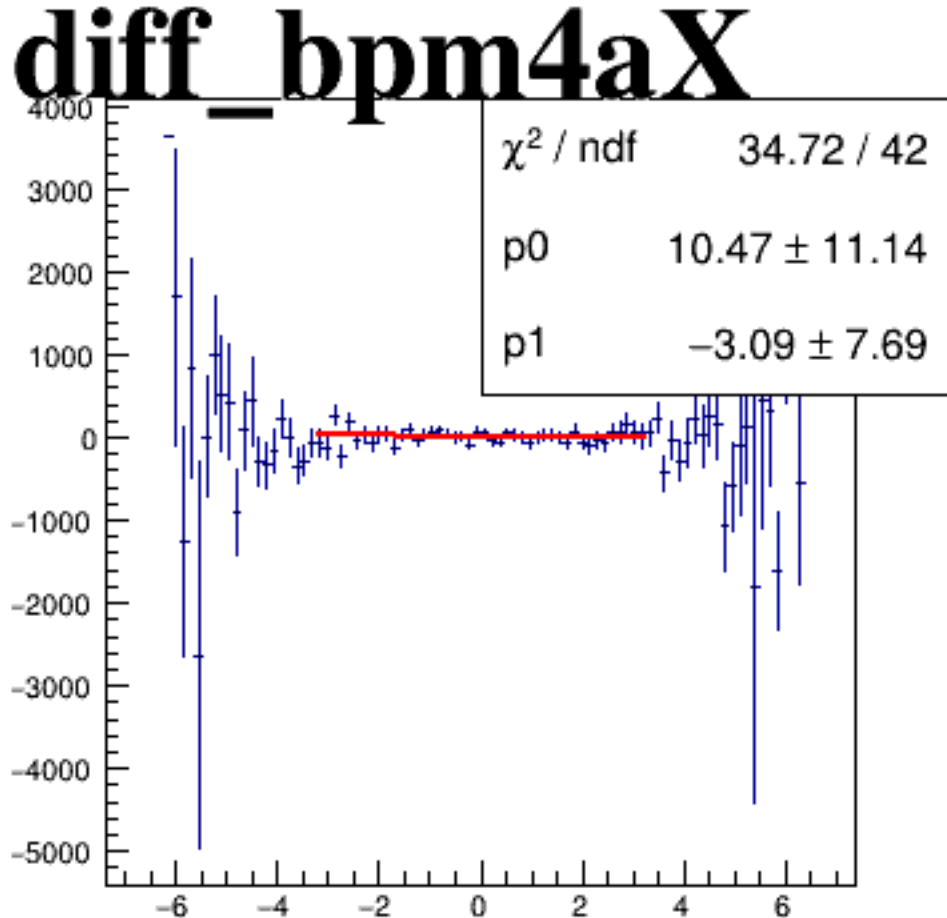
asym_sam6



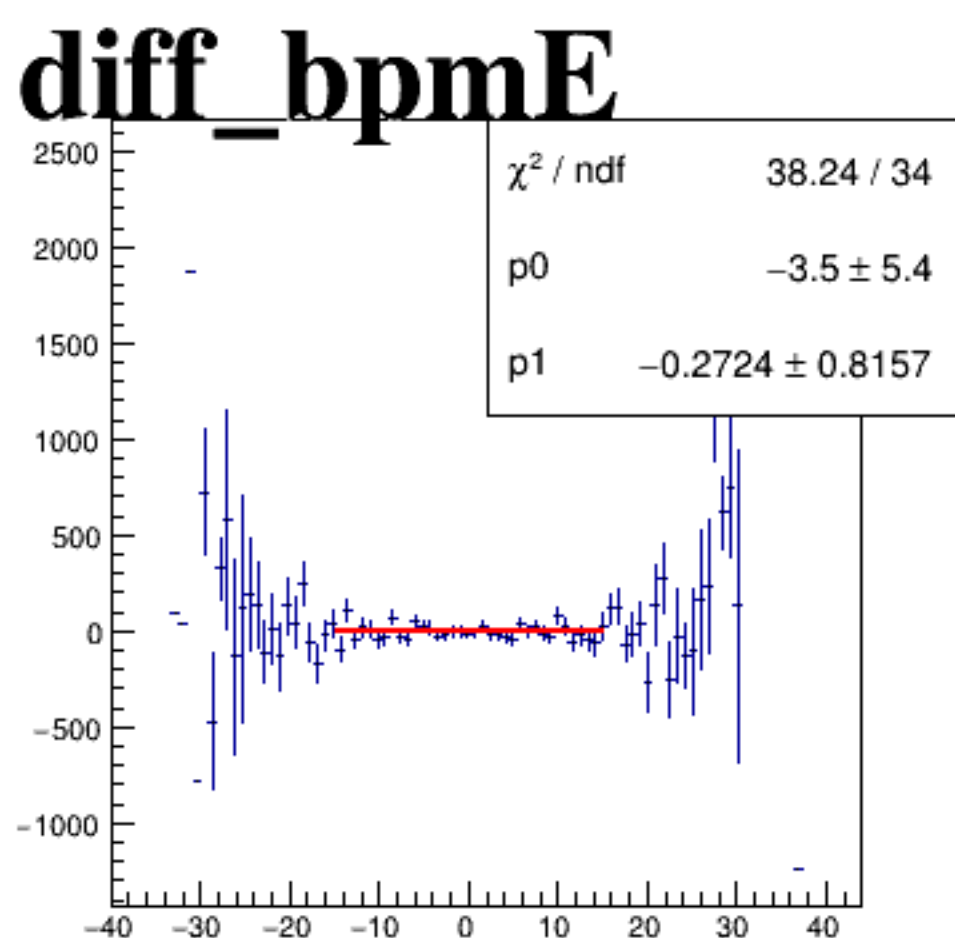
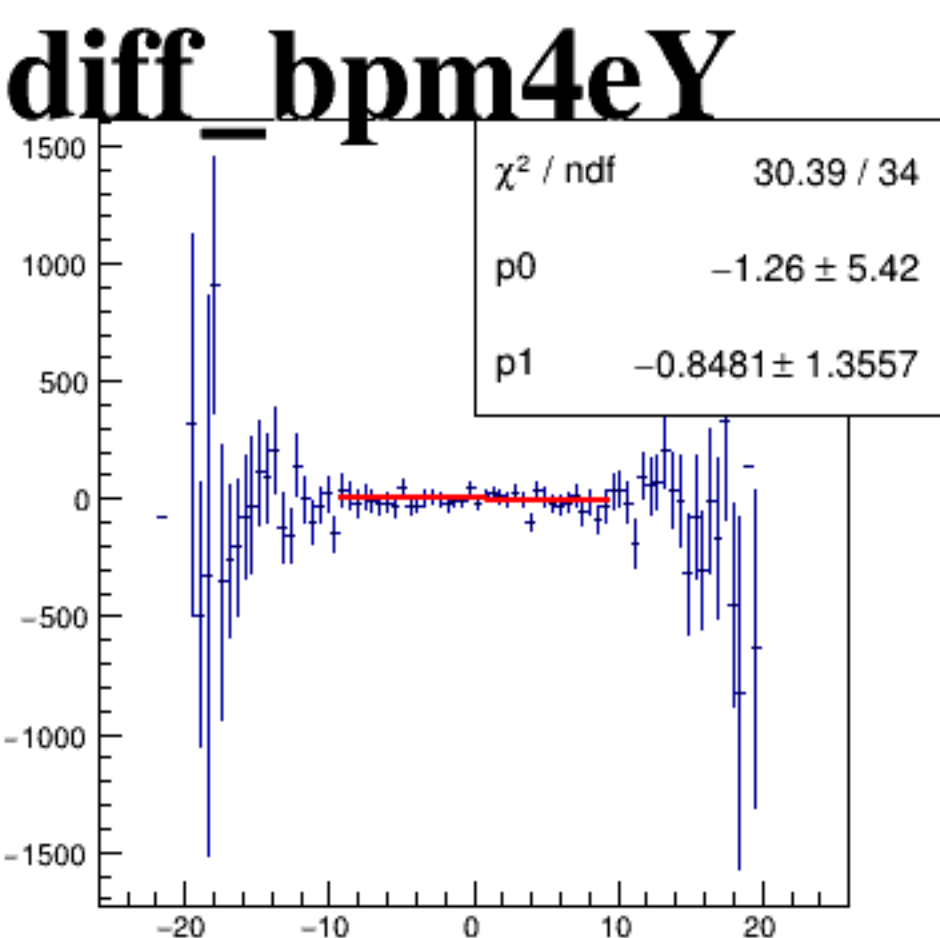
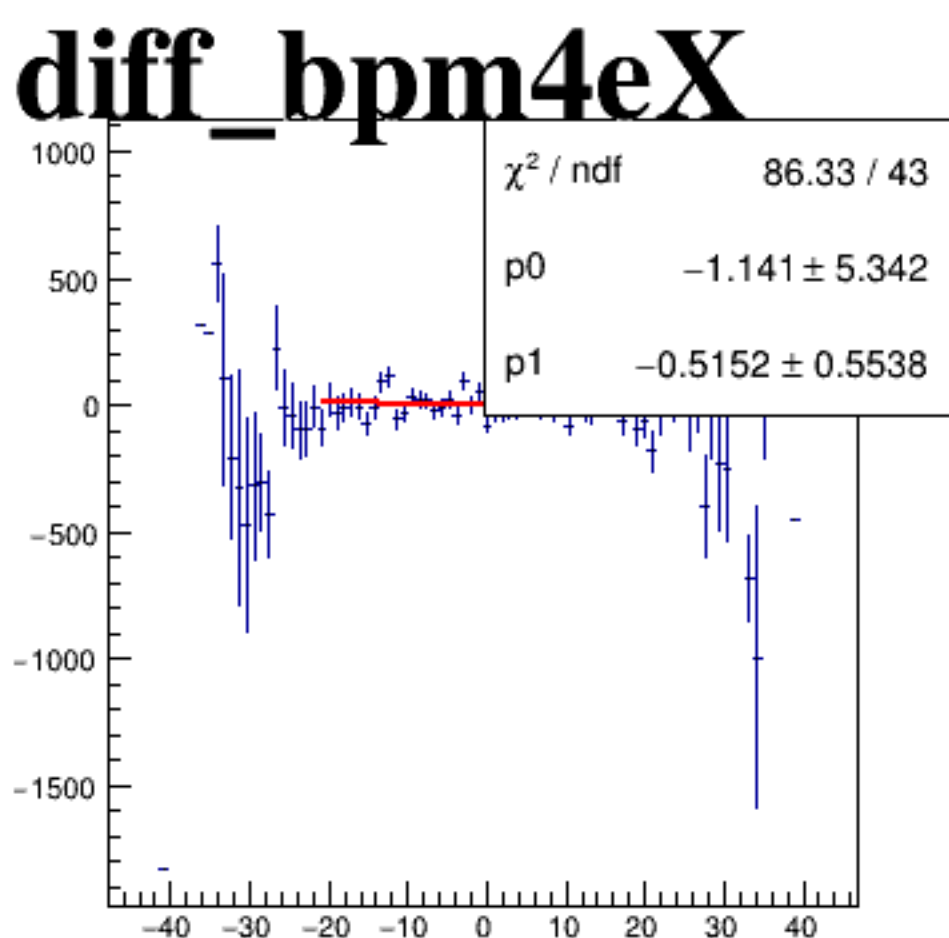
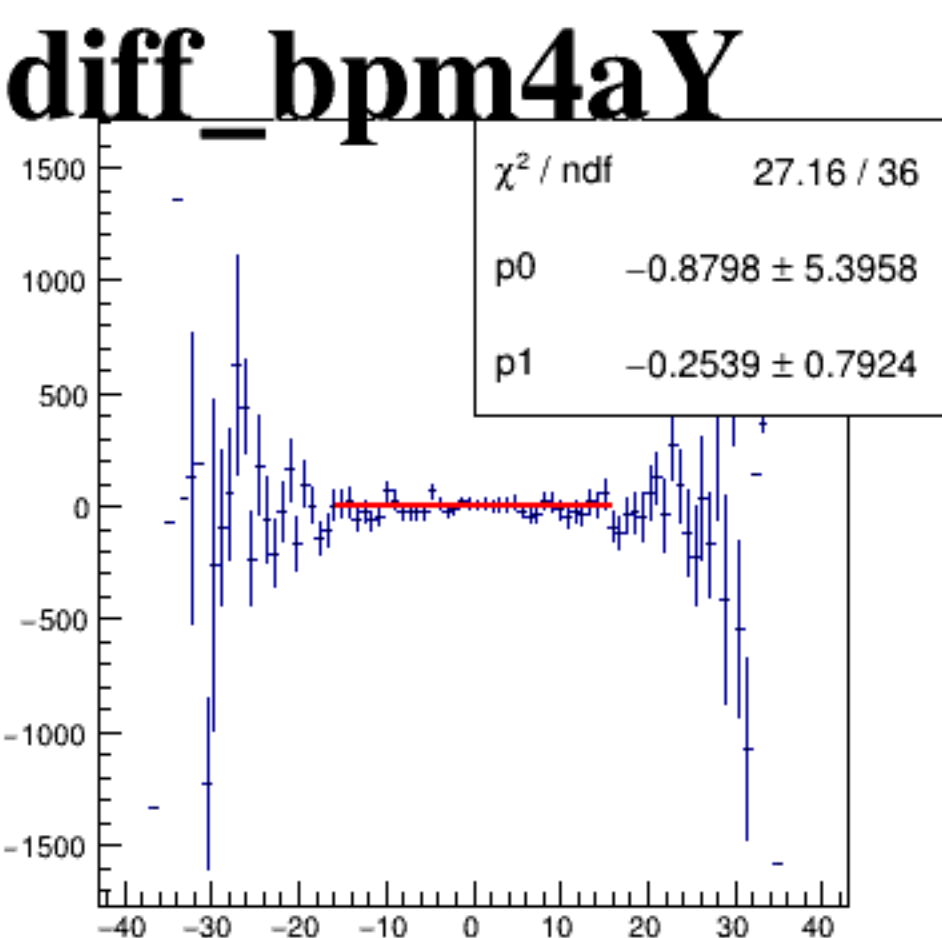
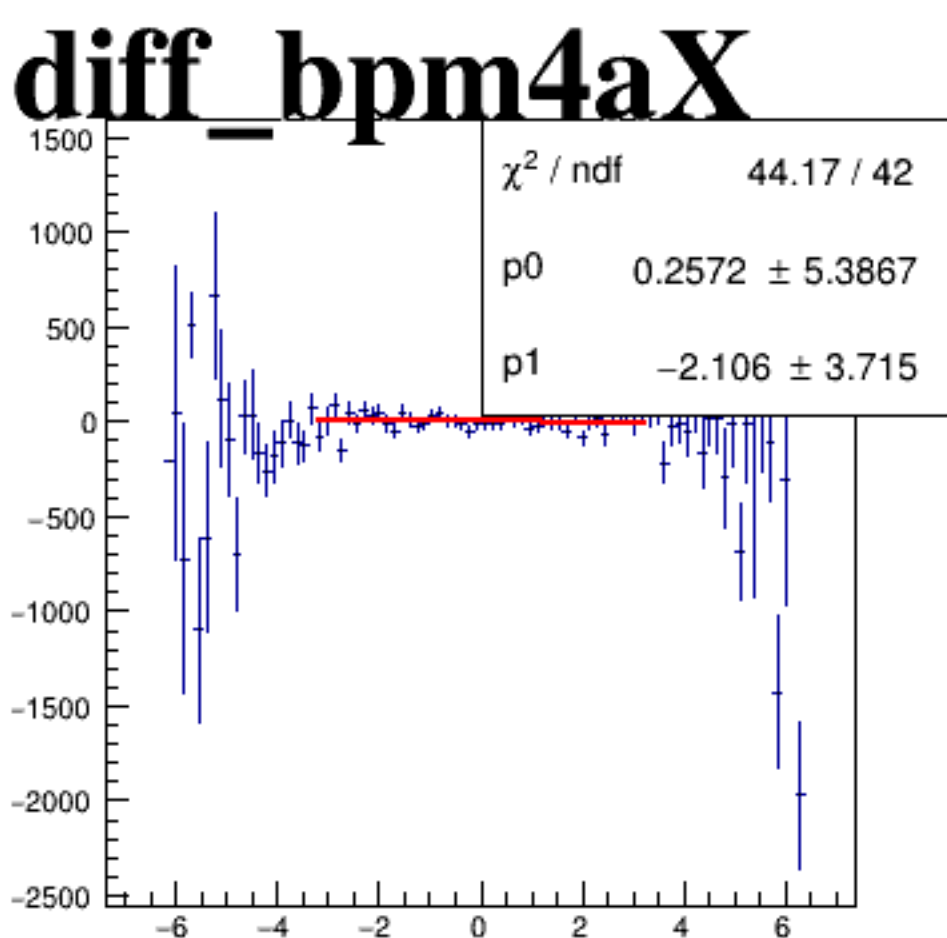
asym_sam8



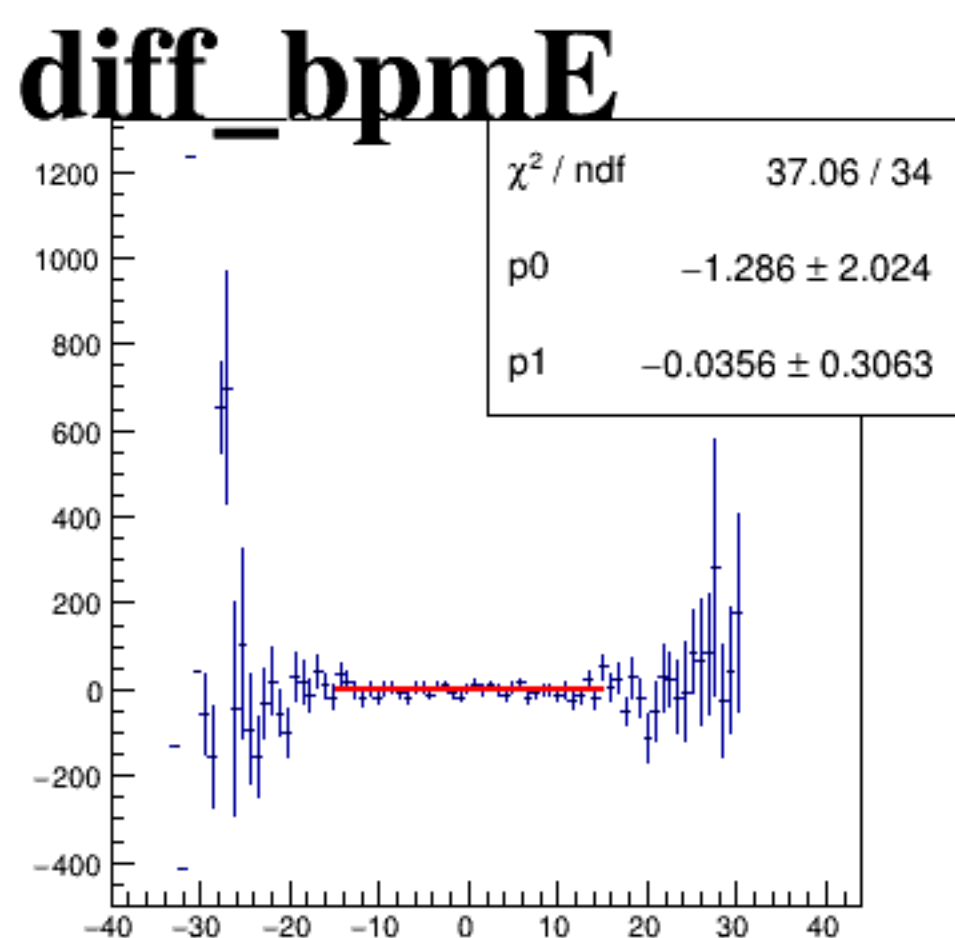
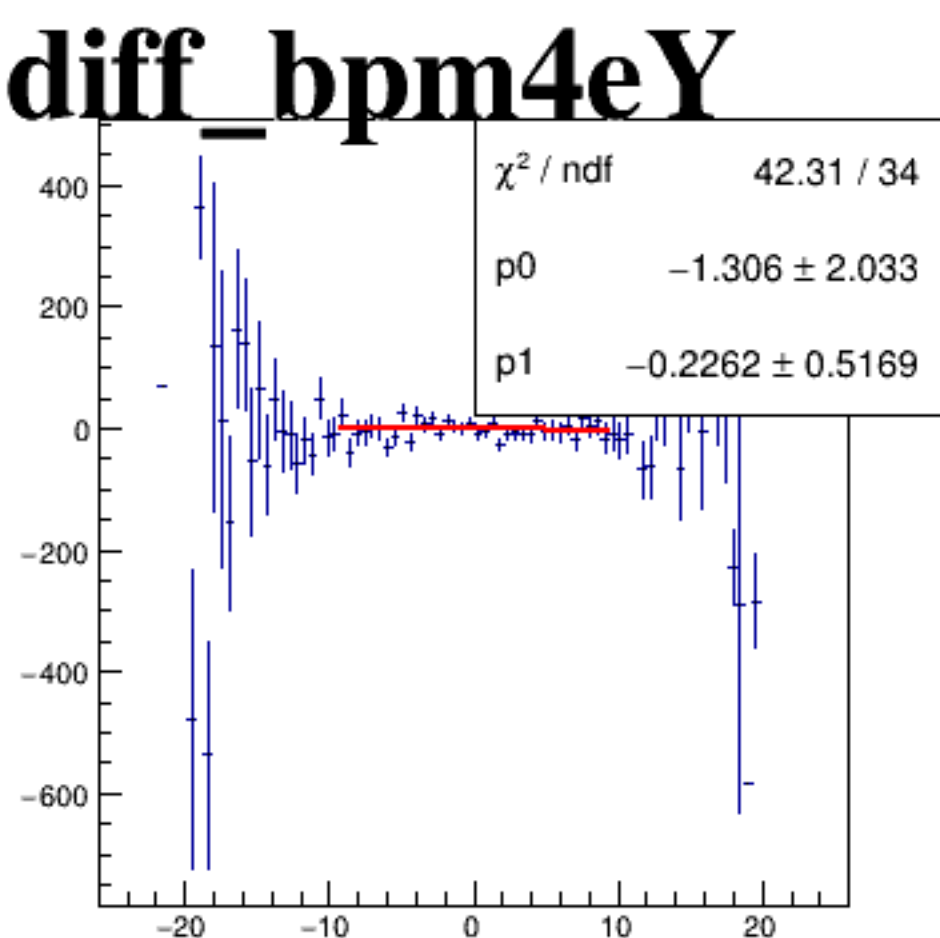
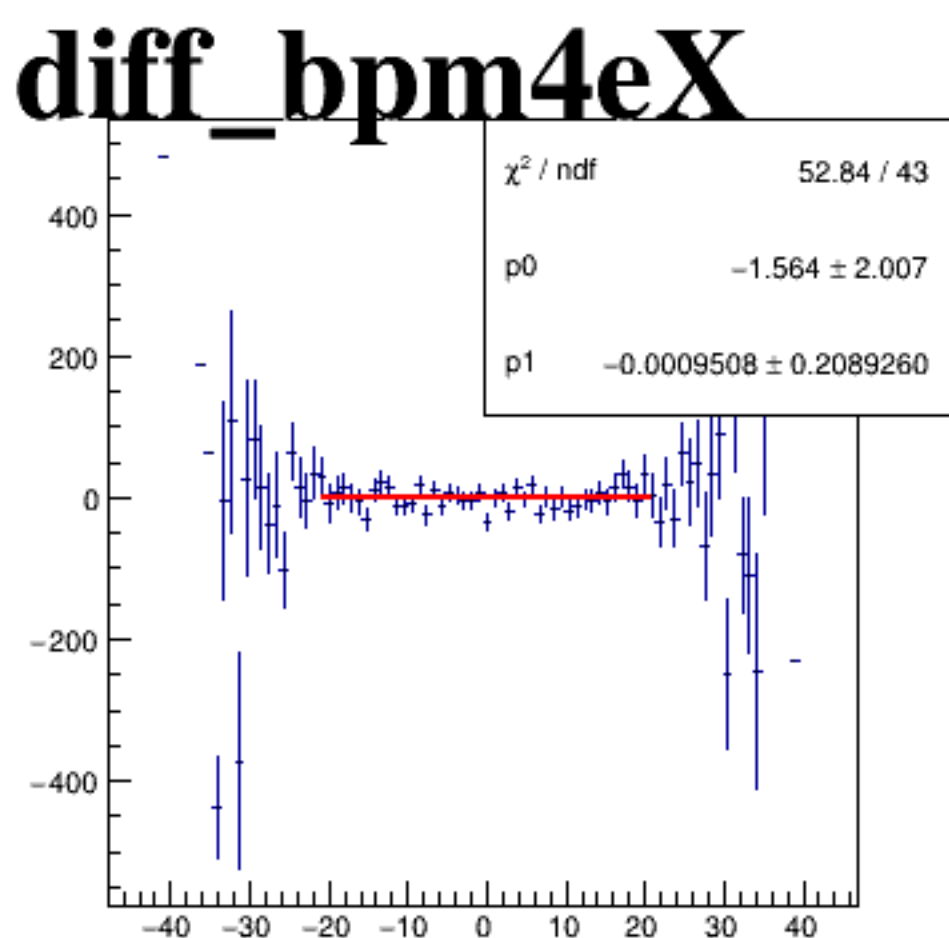
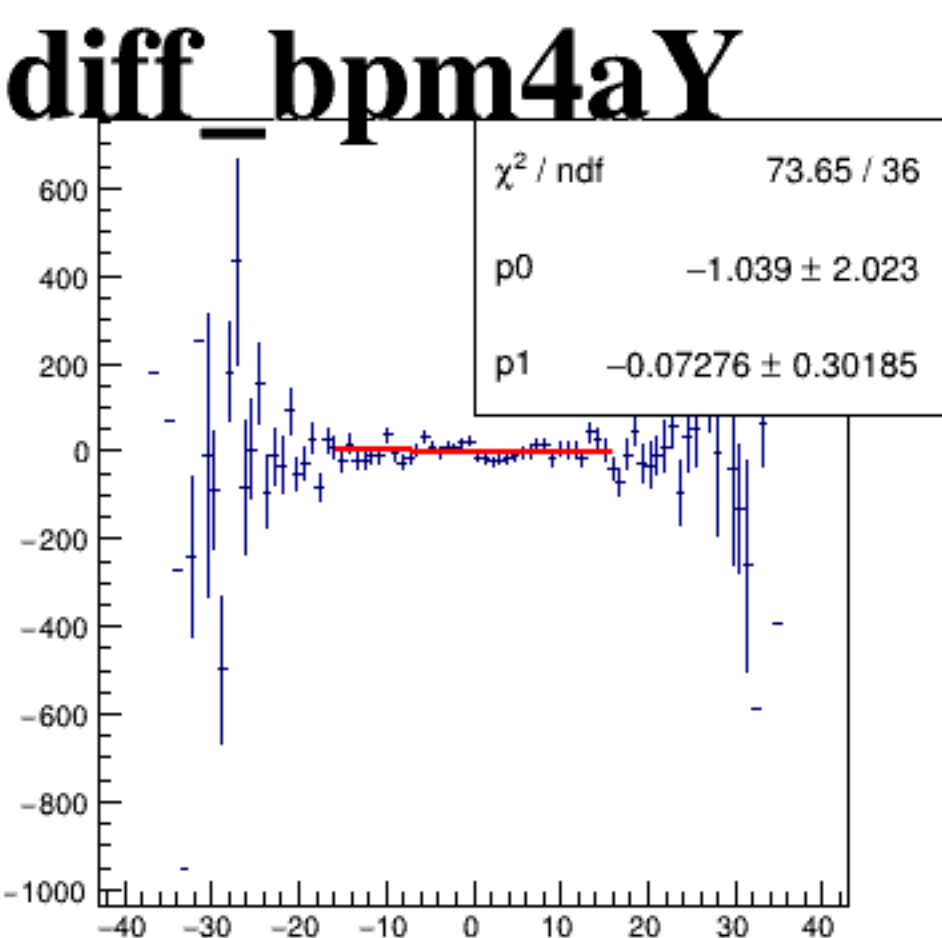
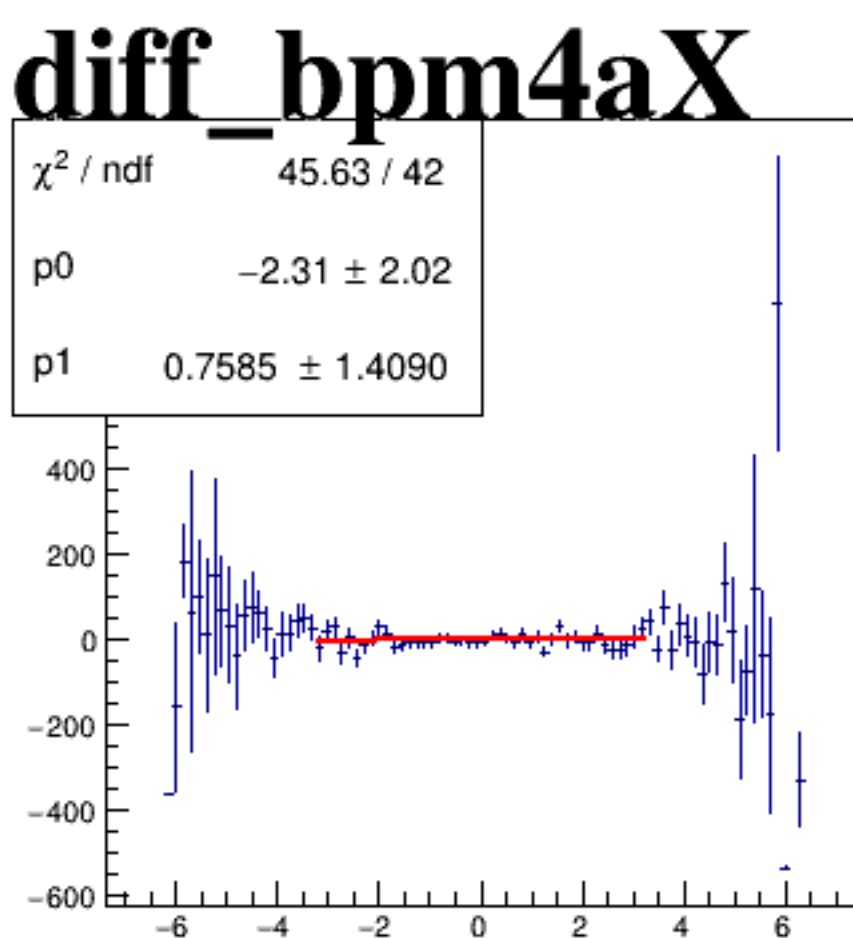
reg_asym_sam2



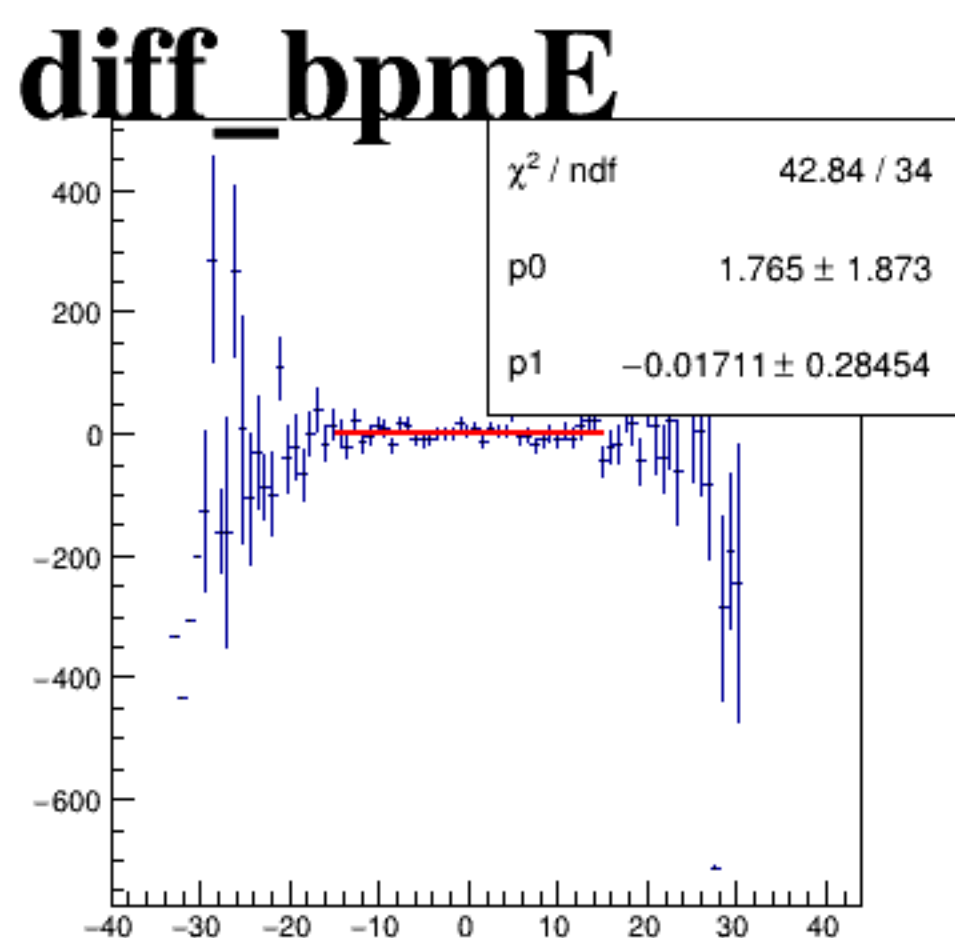
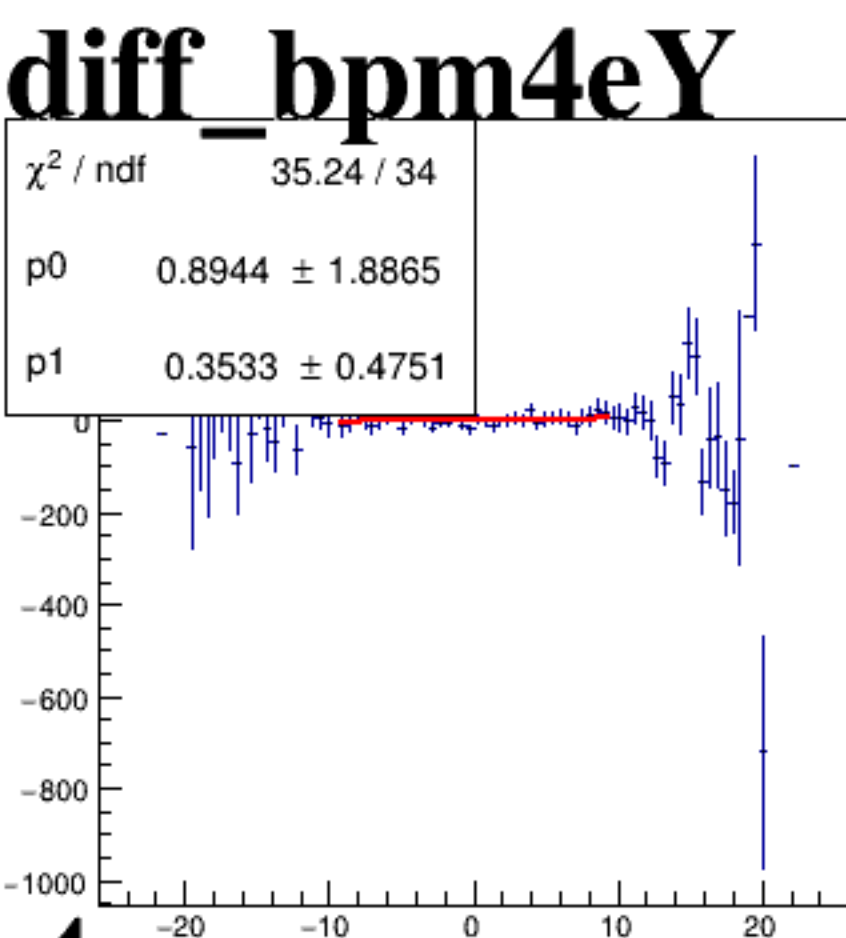
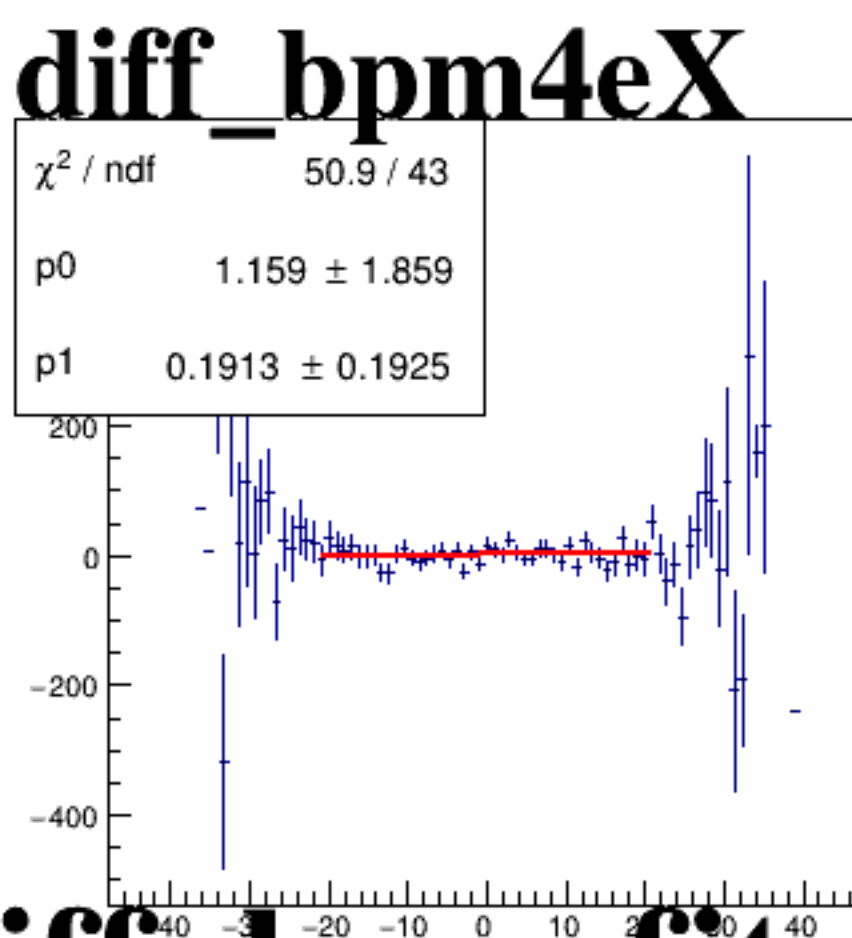
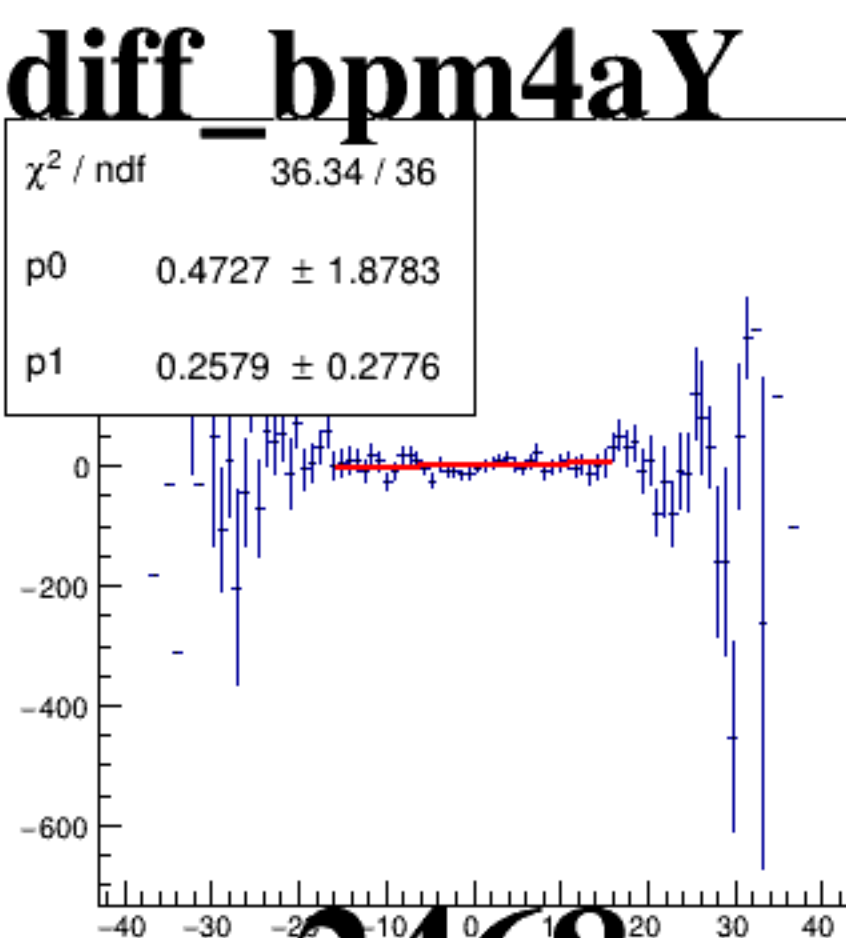
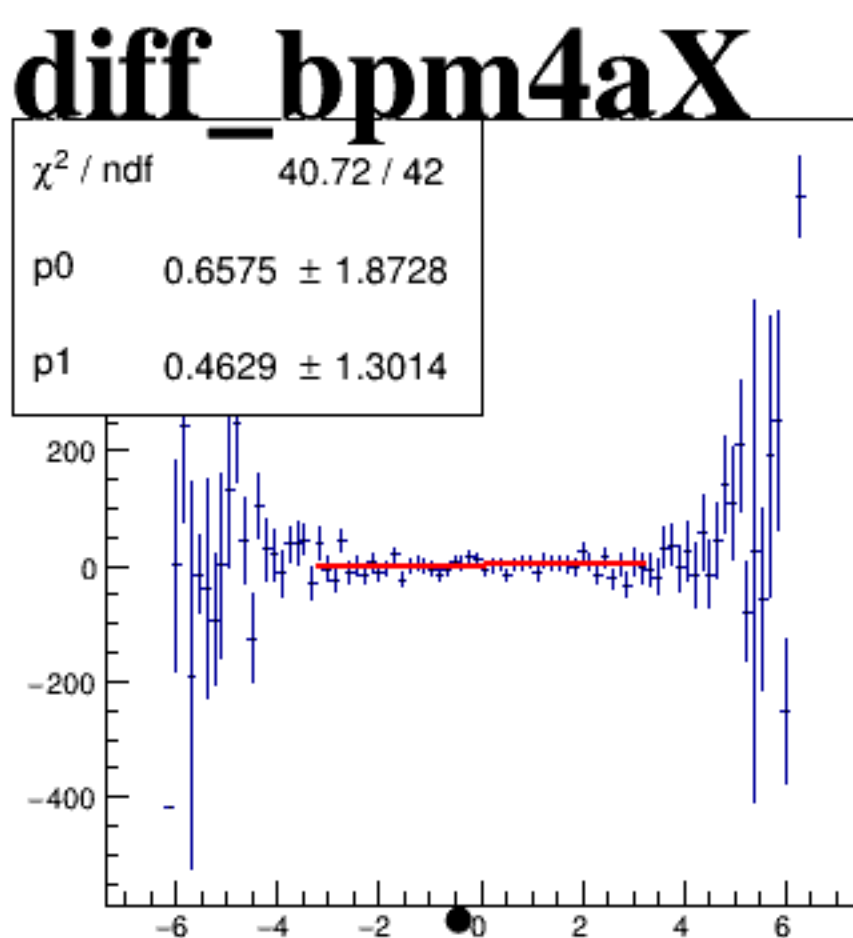
reg_asym_sam4



reg_asym_sam6



reg_asym_sam8



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

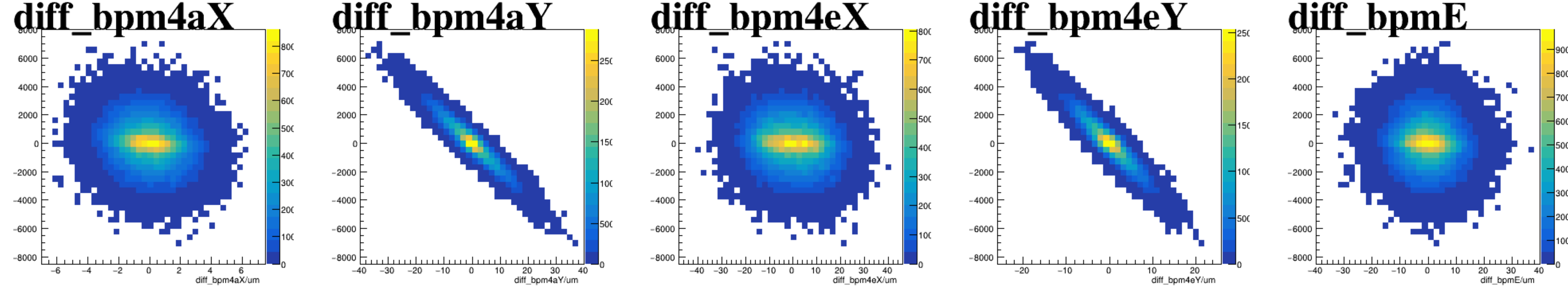
- diff_bpm4aX**: The x-axis is labeled `diff_bpm4aX/um` and ranges from -6 to 6. The y-axis ranges from -15000 to 10000.
- diff_bpm4aY**: The x-axis is labeled `diff_bpm4aY/um` and ranges from -40 to 40. The y-axis ranges from -15000 to 10000.
- diff_bpm4eX**: The x-axis is labeled `diff_bpm4eX/um` and ranges from -40 to 40. The y-axis ranges from -15000 to 10000.
- diff_bpm4eY**: The x-axis is labeled `diff_bpm4eY/um` and ranges from -20 to 20. The y-axis ranges from -15000 to 10000.
- diff_bpmE**: The x-axis is labeled `diff_bpmE/um` and ranges from -40 to 40. The y-axis ranges from -15000 to 10000.

In all plots, the data points form a dense, roughly elliptical cloud centered at the origin (0,0), indicating that the differences are small and centered around zero.

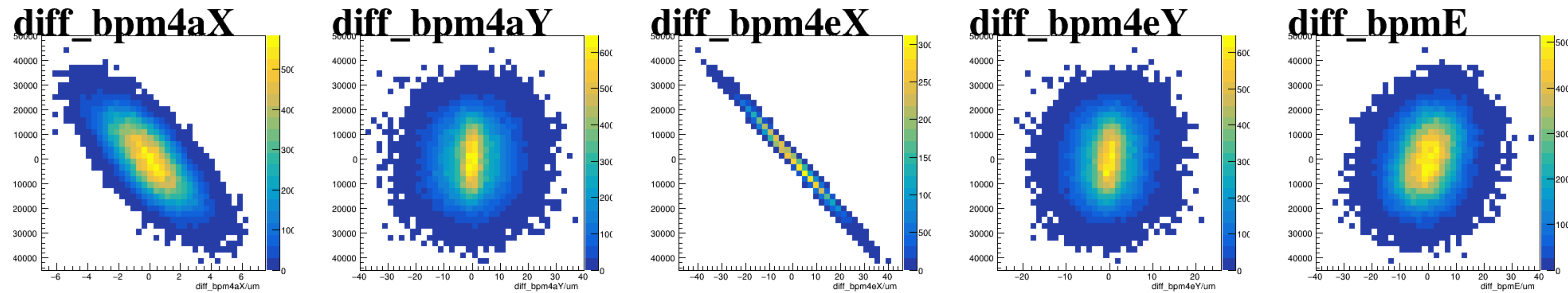
The figure displays five scatter plots comparing the difference between BPM4 and postmaning for various parameters. The plots are arranged in a single row, each with a title above it and a label below it. The y-axis for all plots ranges from -10000 to 10000. The x-axis for all plots ranges from -40 to 40. The plots show a dense cloud of points centered around zero difference, indicating a good agreement between the two methods.

- diff_bpm4aX**: The x-axis is labeled diff_bpm4aX/um . The y-axis is labeled diff_bpm4aX/um .
- diff_bpm4aY**: The x-axis is labeled diff_bpm4aY/um . The y-axis is labeled diff_bpm4aY/um .
- diff_bpm4eX**: The x-axis is labeled diff_bpm4eX/um . The y-axis is labeled diff_bpm4eX/um .
- diff_bpm4eY**: The x-axis is labeled diff_bpm4eY/um . The y-axis is labeled diff_bpm4eY/um .
- diff_bpmE**: The x-axis is labeled diff_bpmE/um . The y-axis is labeled diff_bpmE/um .

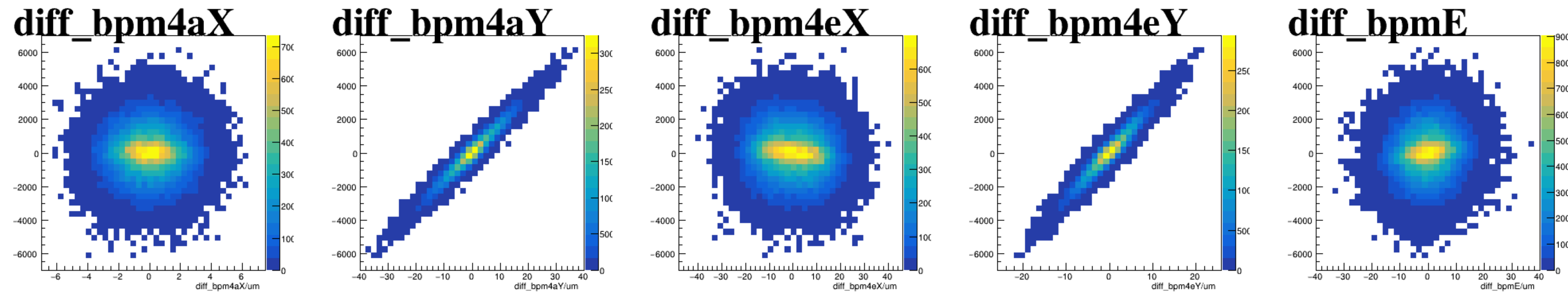
asym_sam1



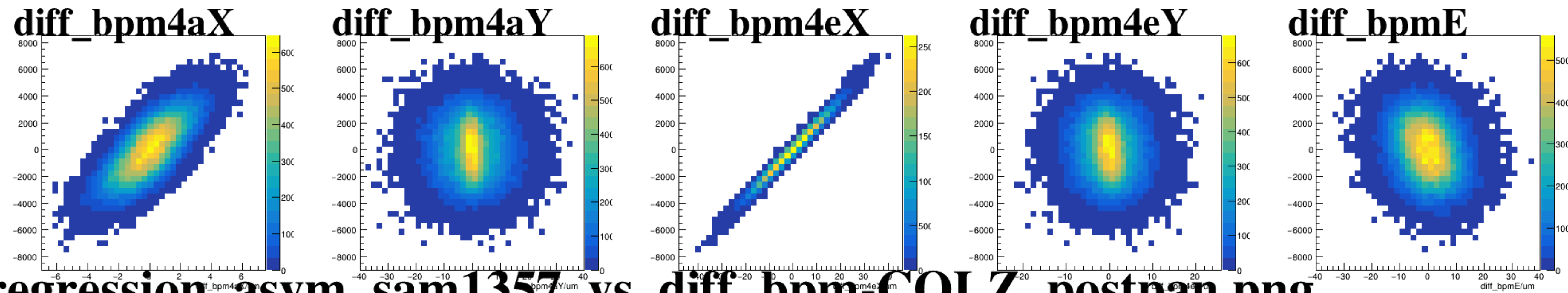
asym_sam3



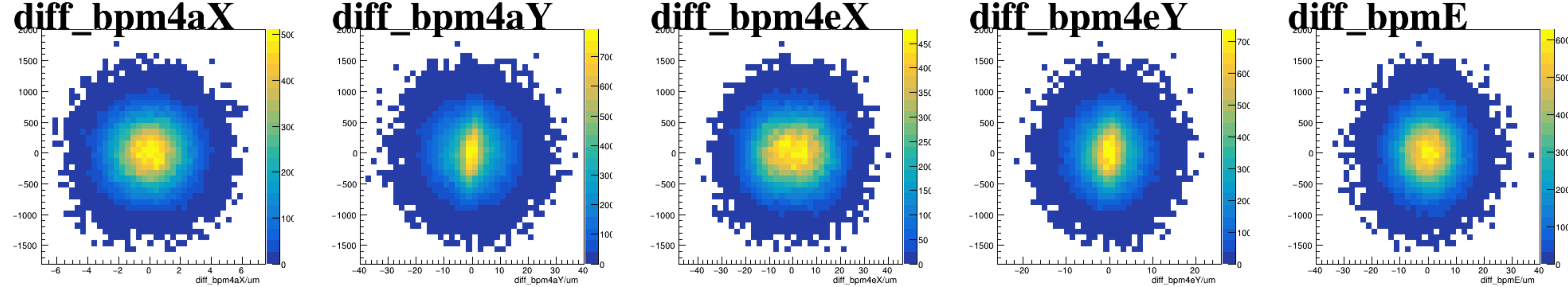
asym_sam5



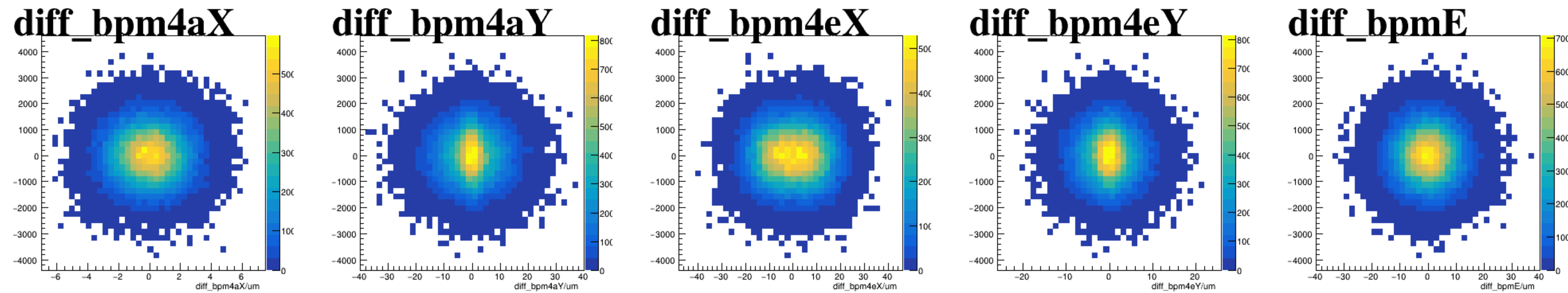
asym_sam7



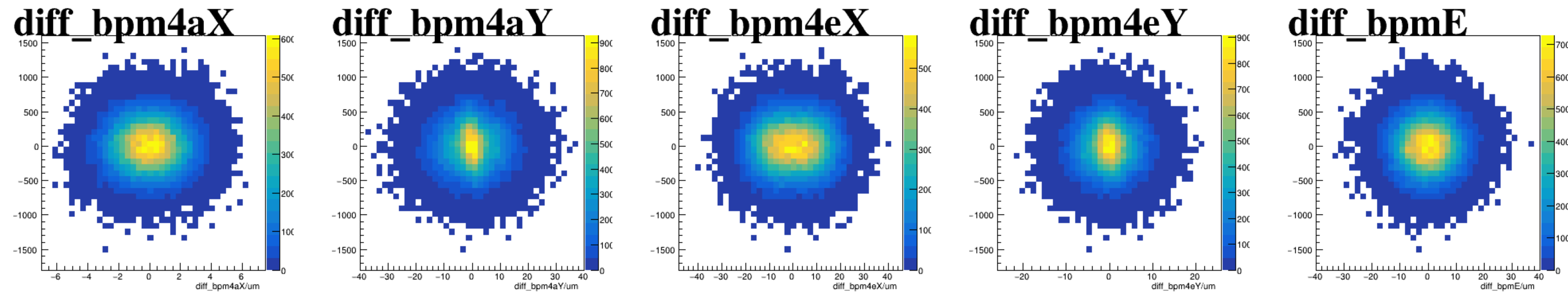
reg_asym_sam1



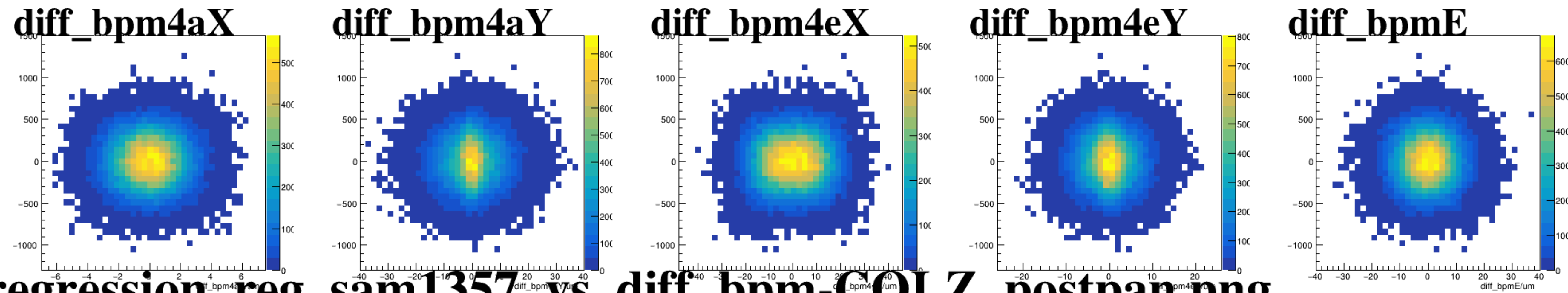
reg_asym_sam3



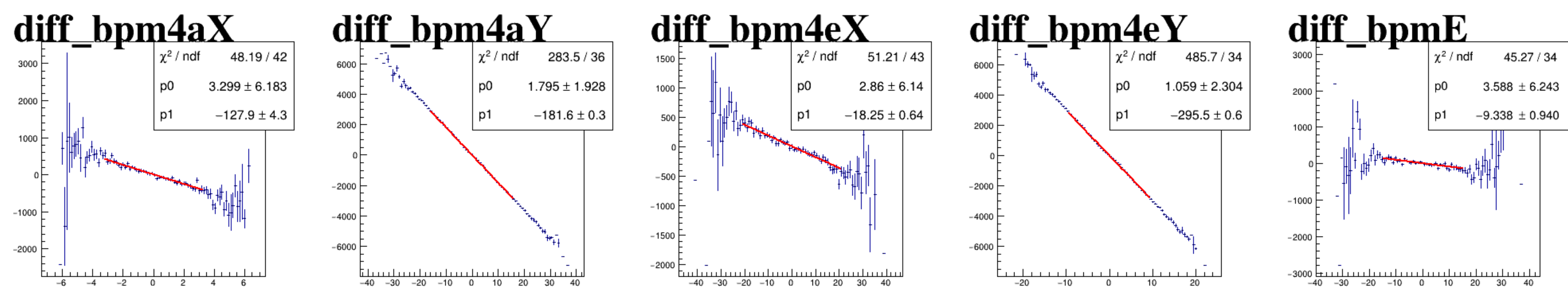
reg_asym_sam5



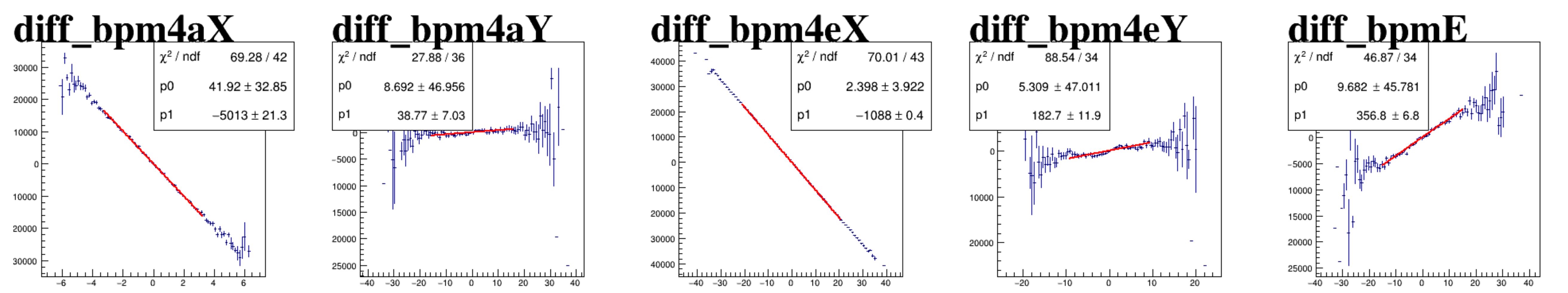
reg_asym_sam7



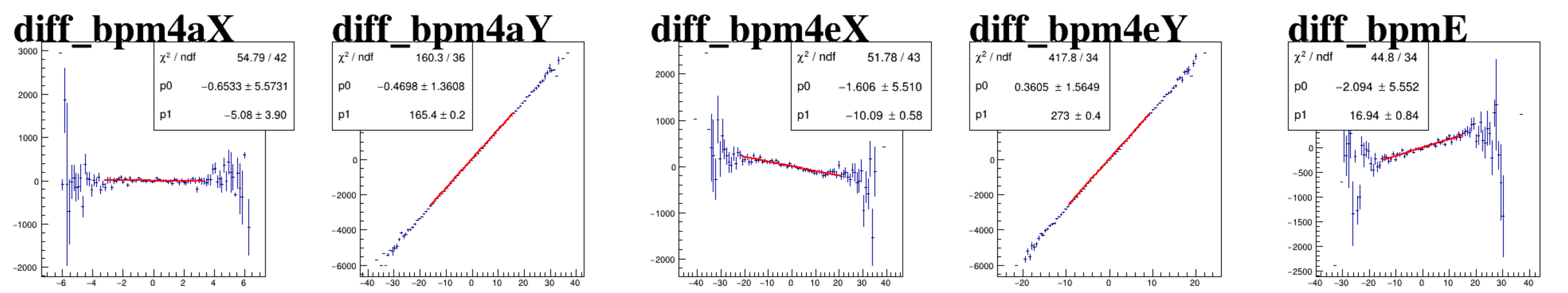
asym_sam1



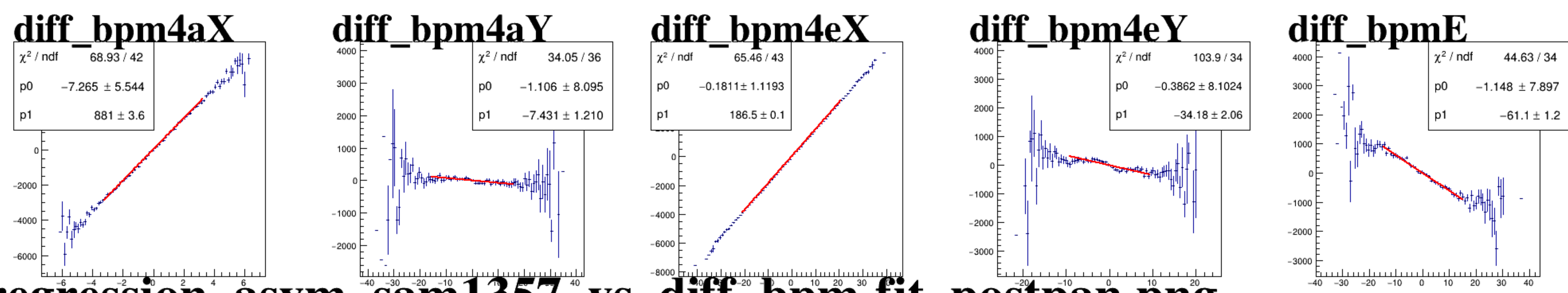
asym_sam3



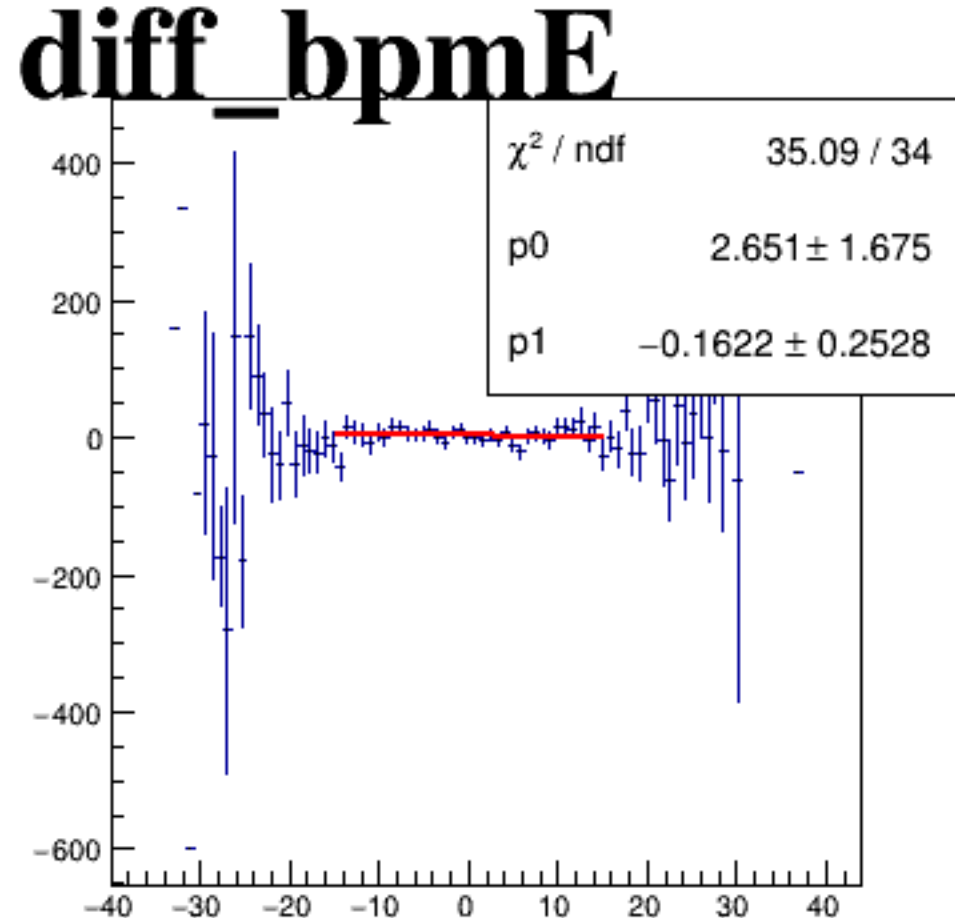
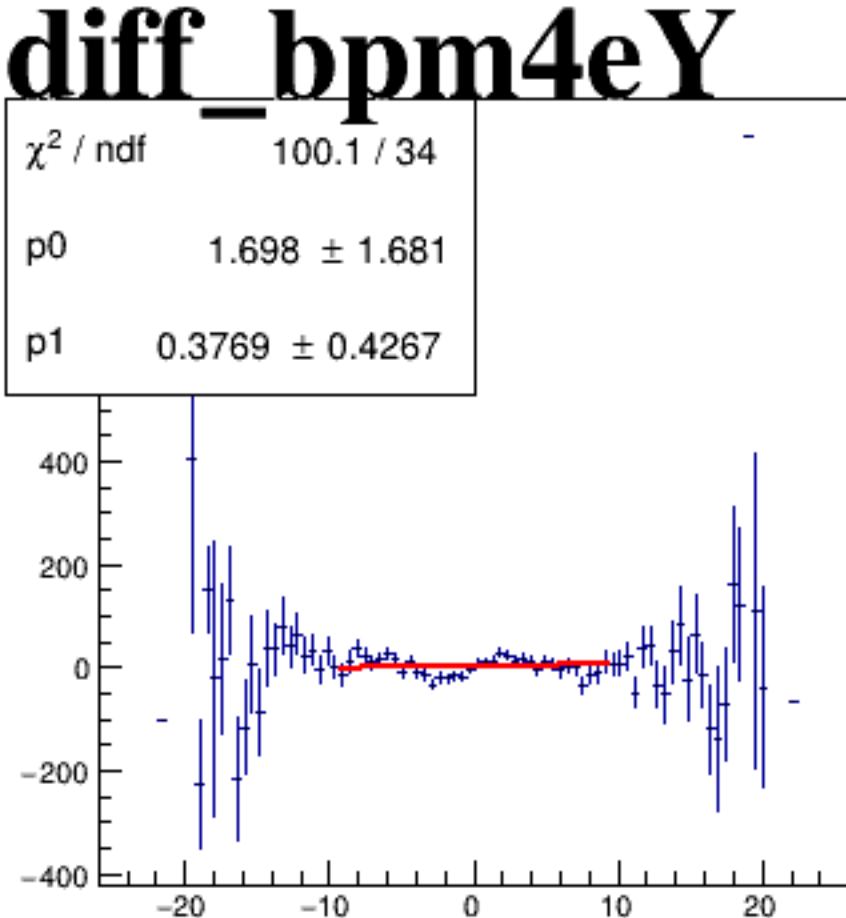
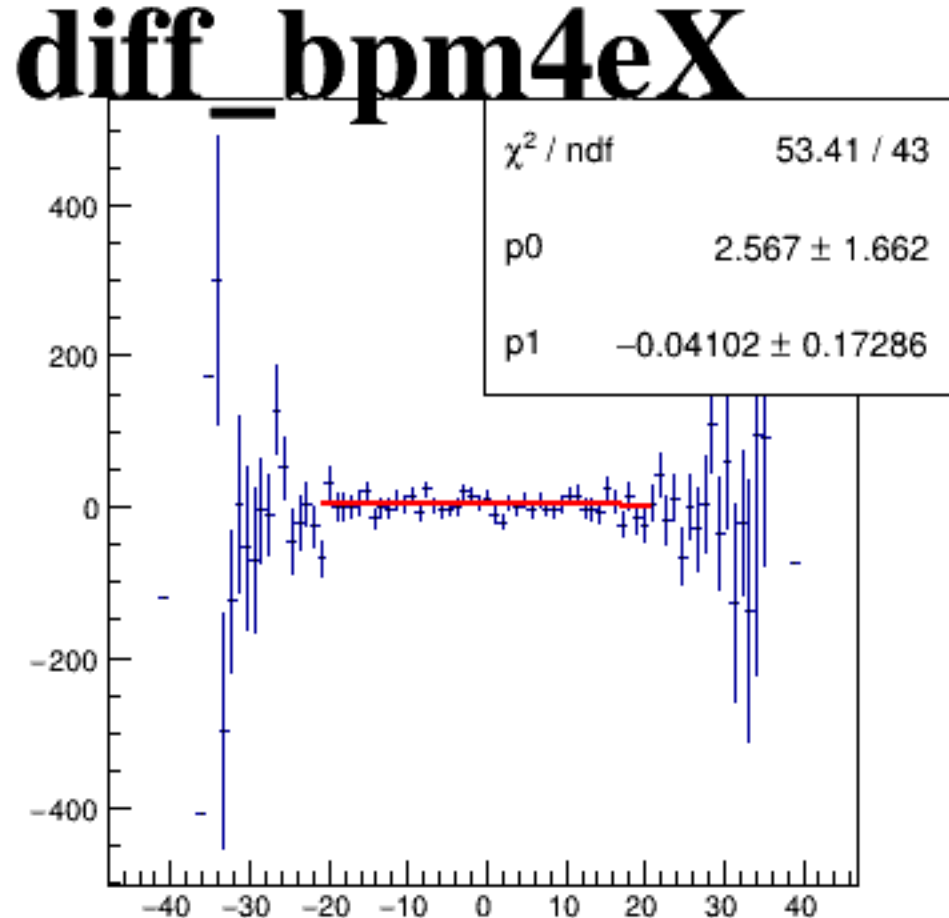
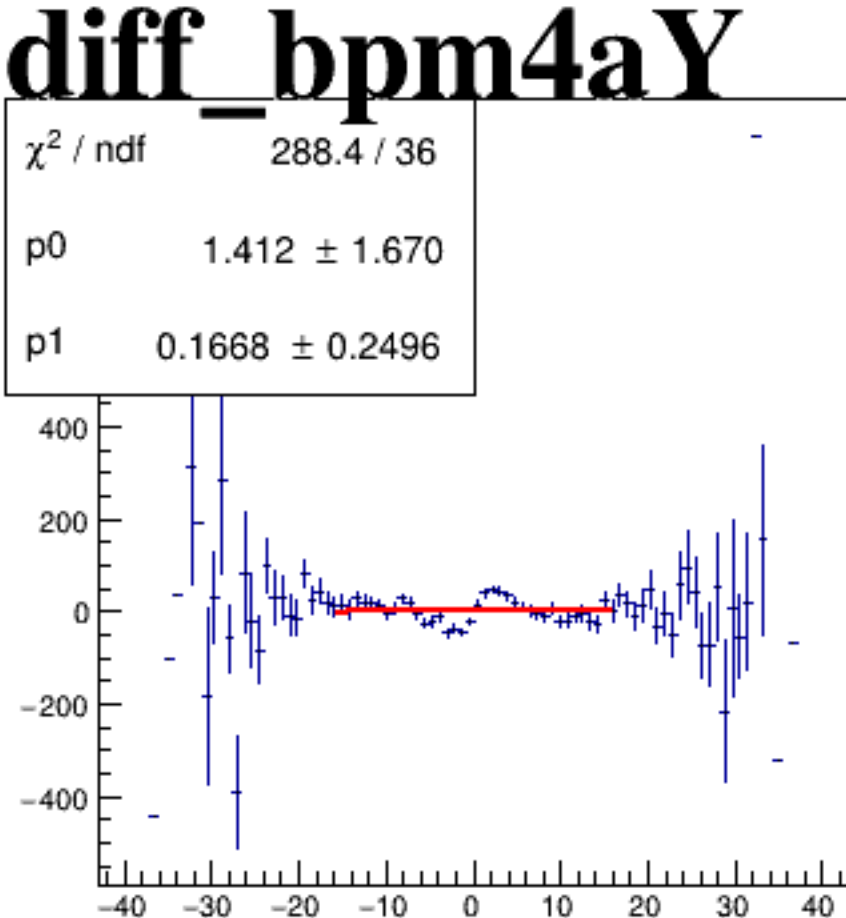
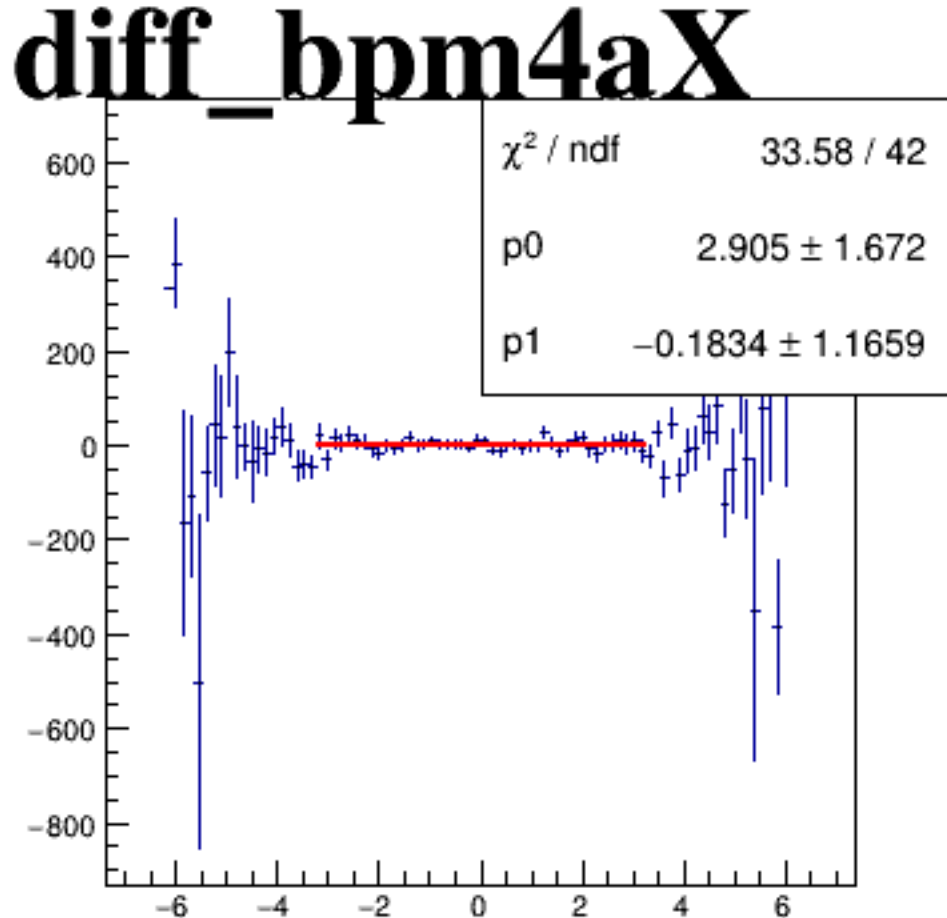
asym_sam5



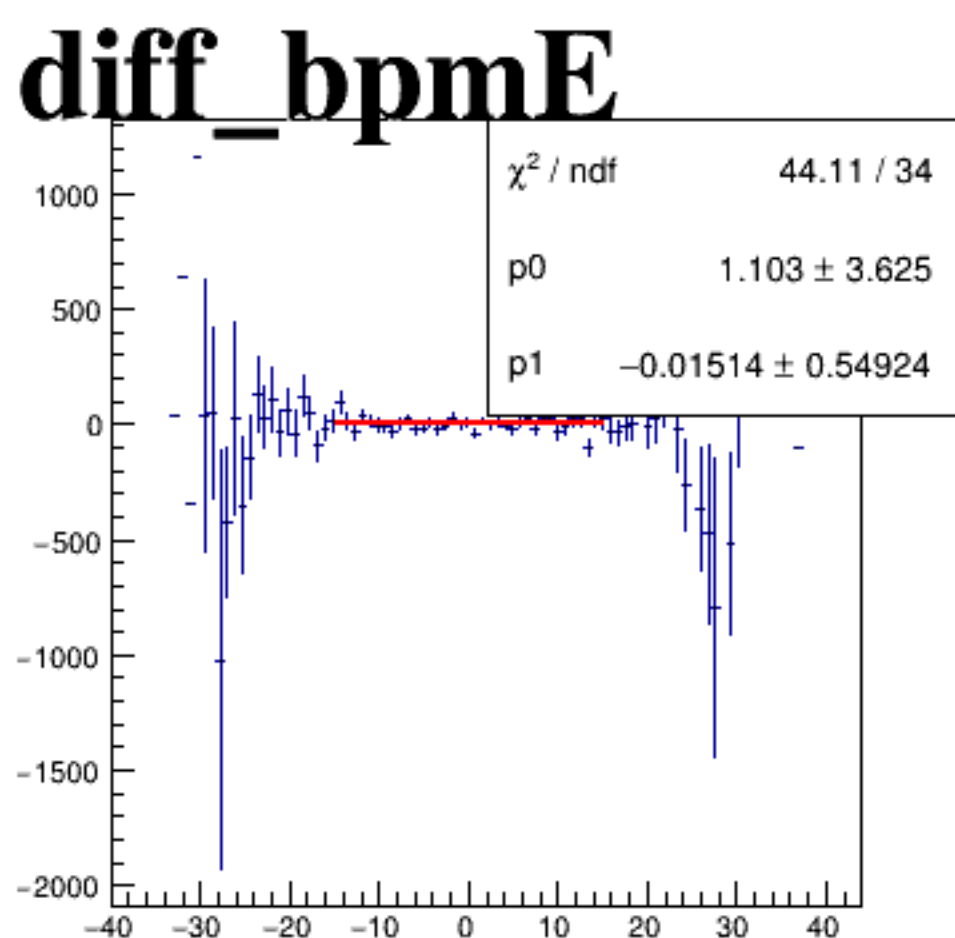
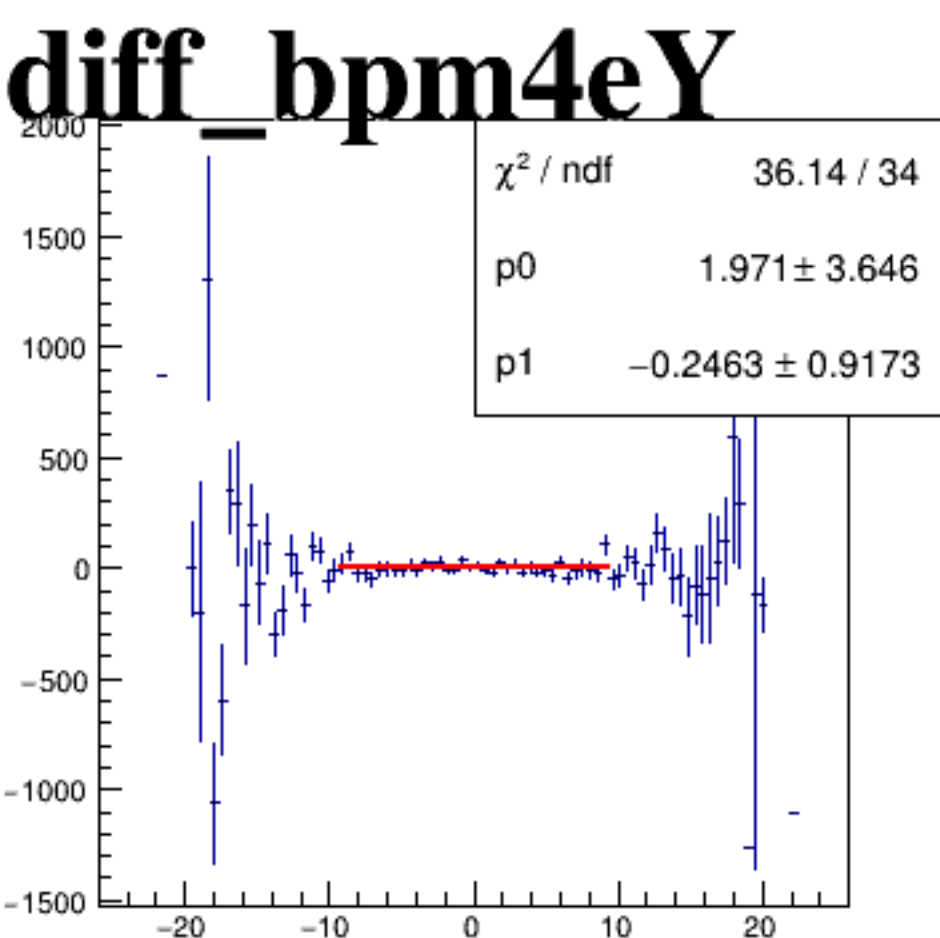
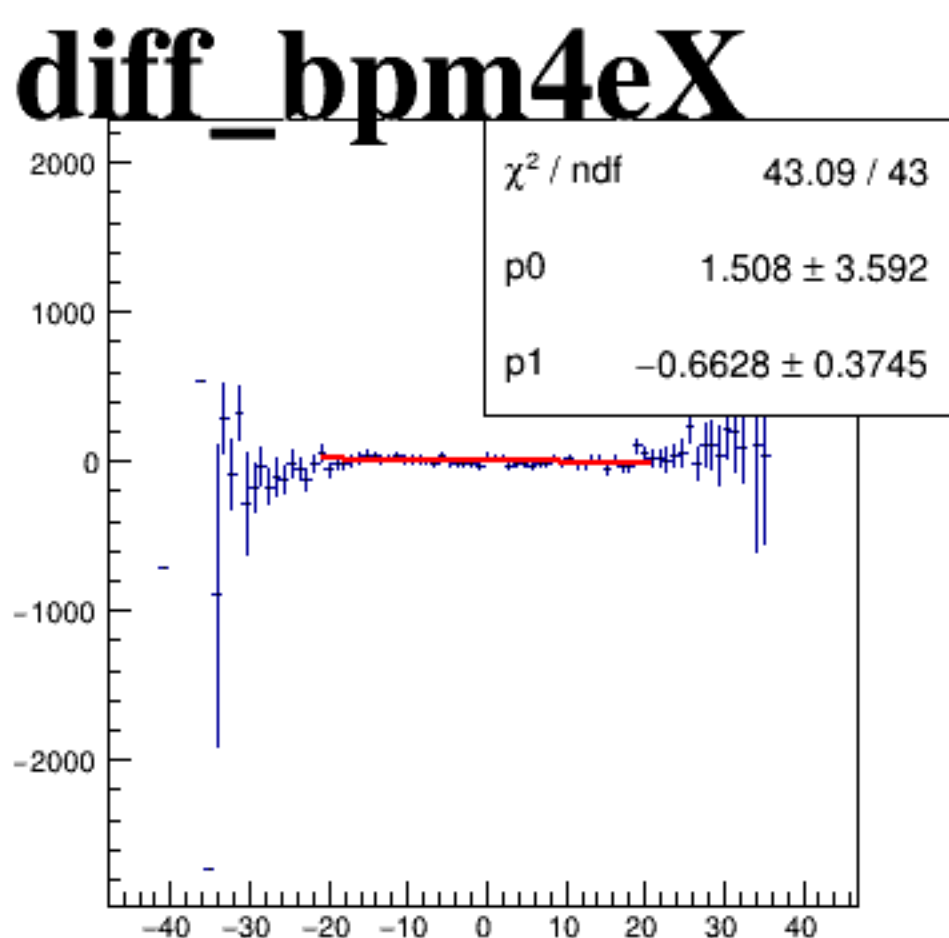
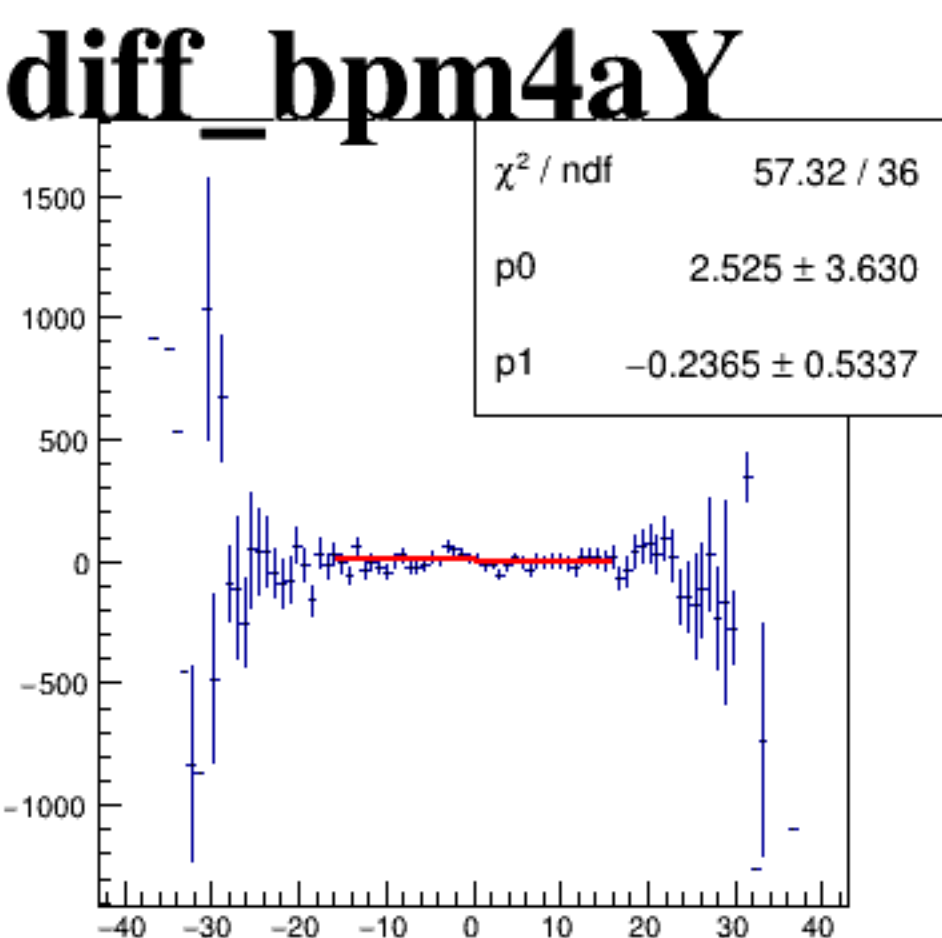
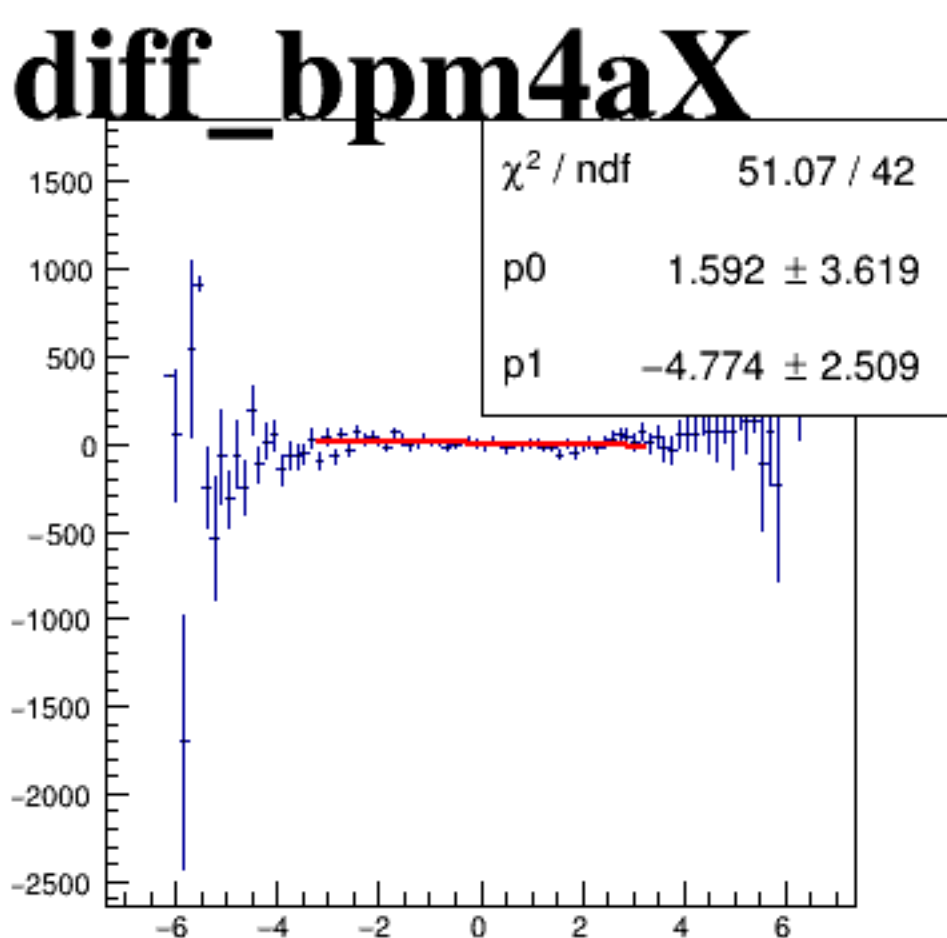
asym_sam7



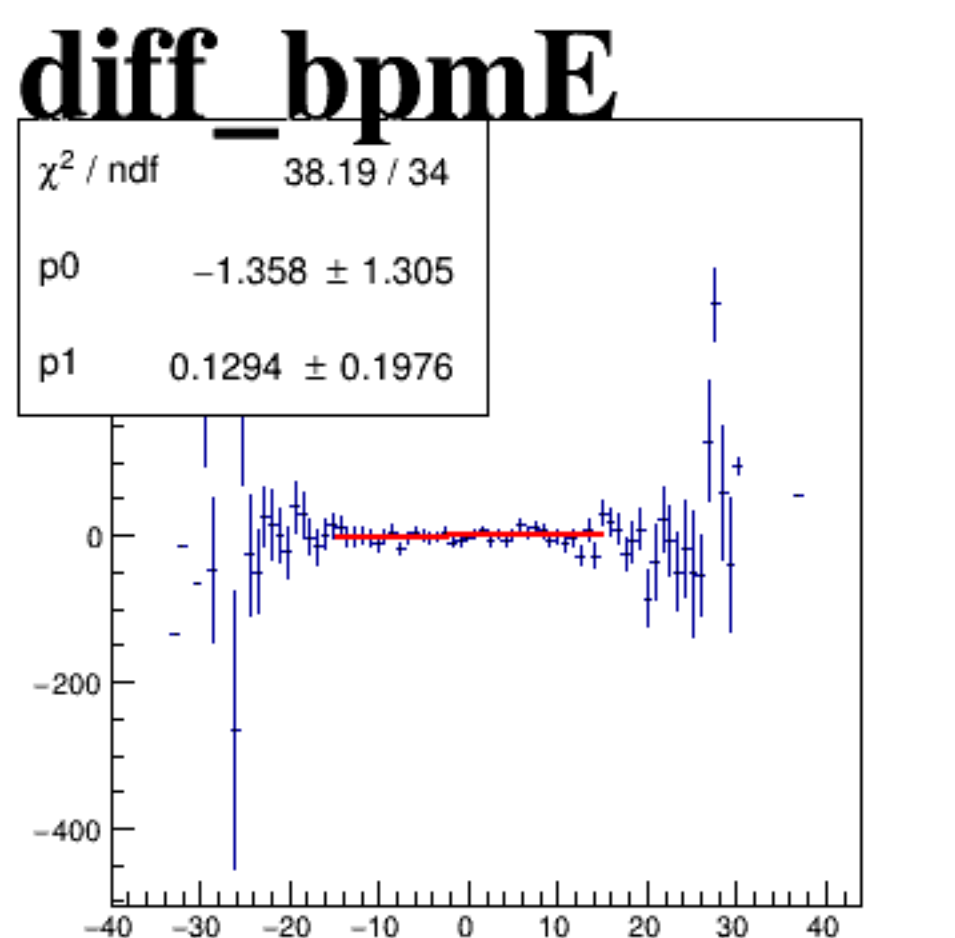
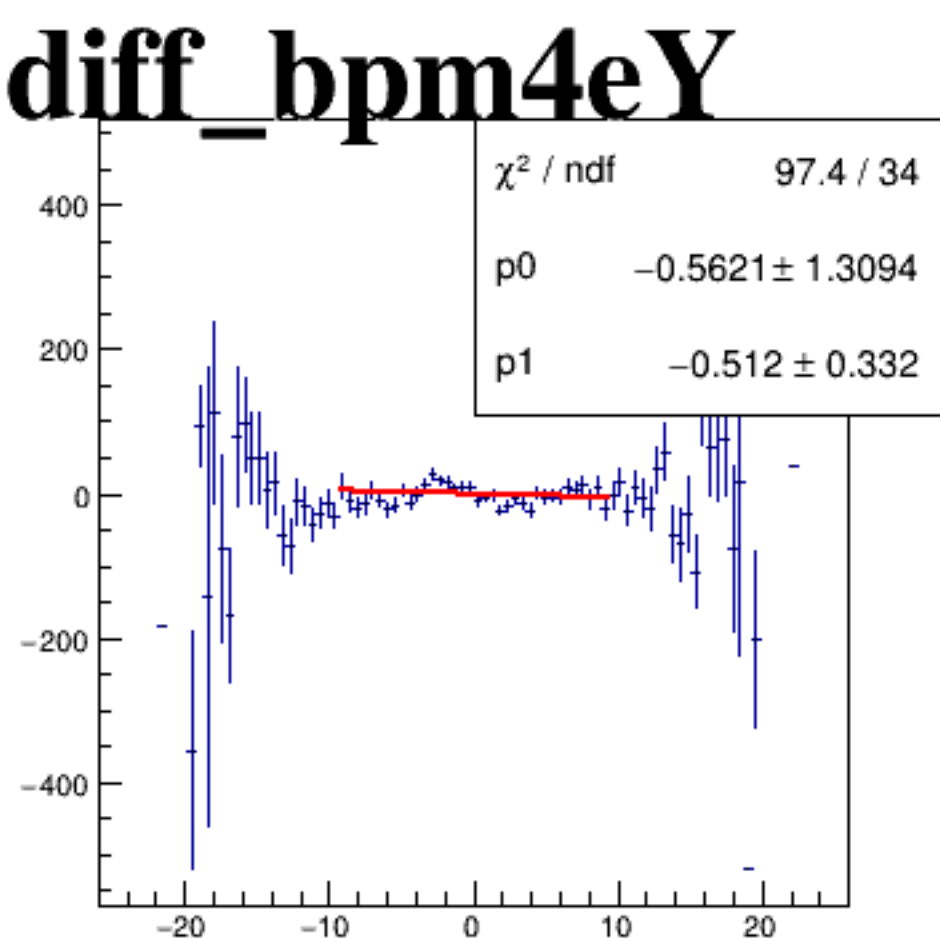
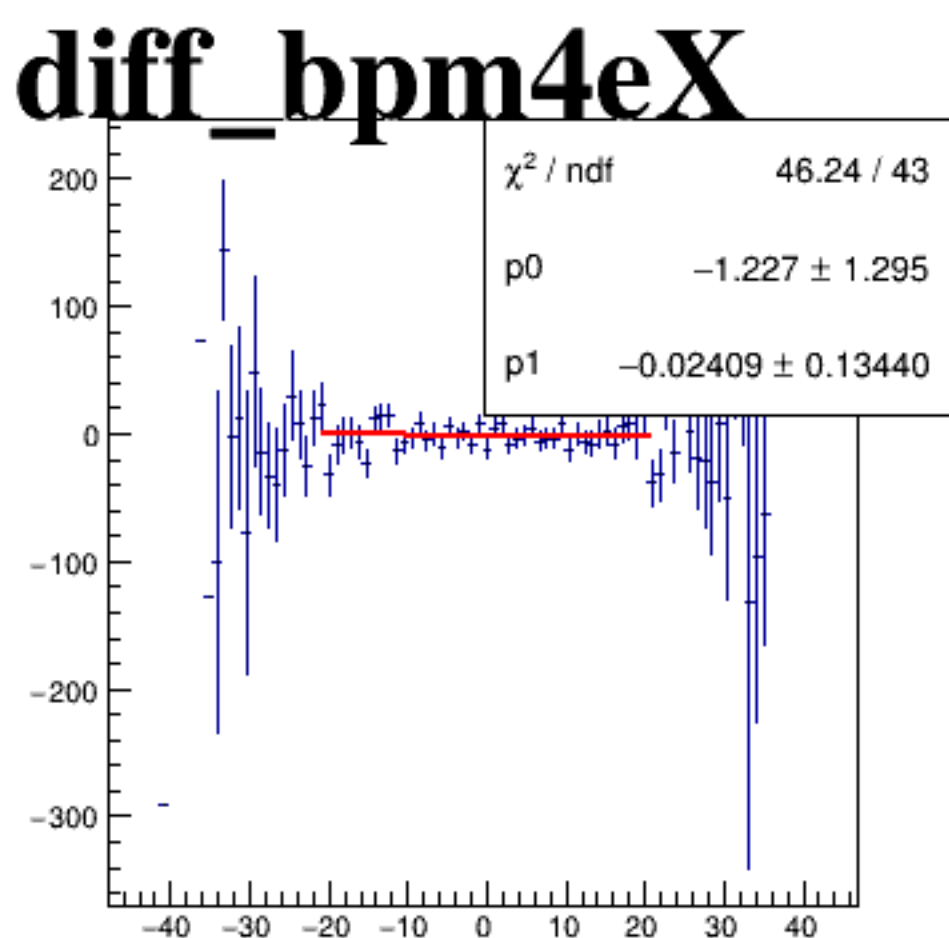
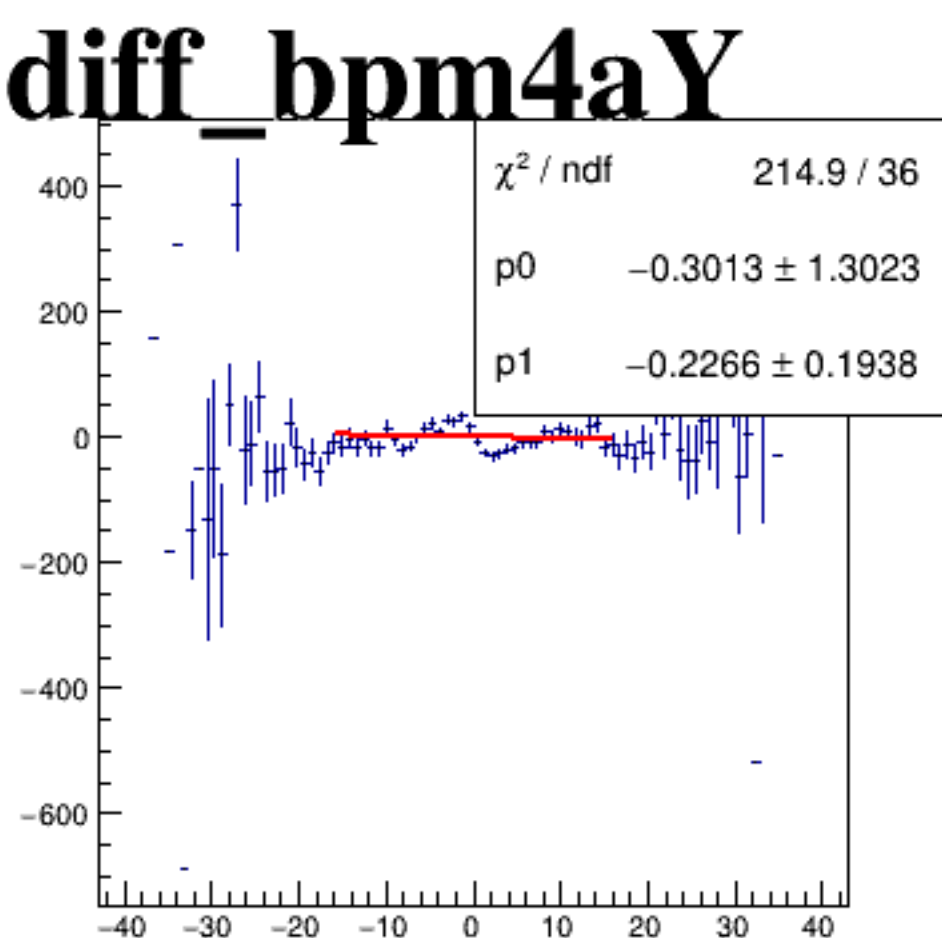
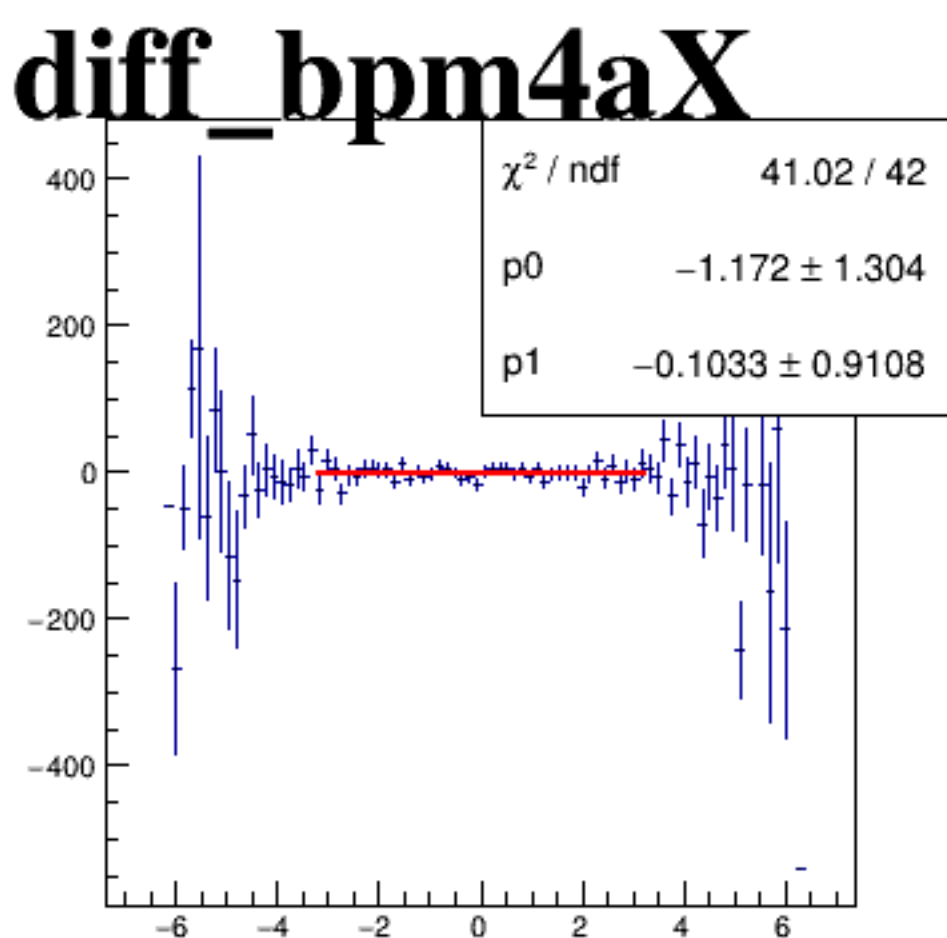
reg_asym_sam1



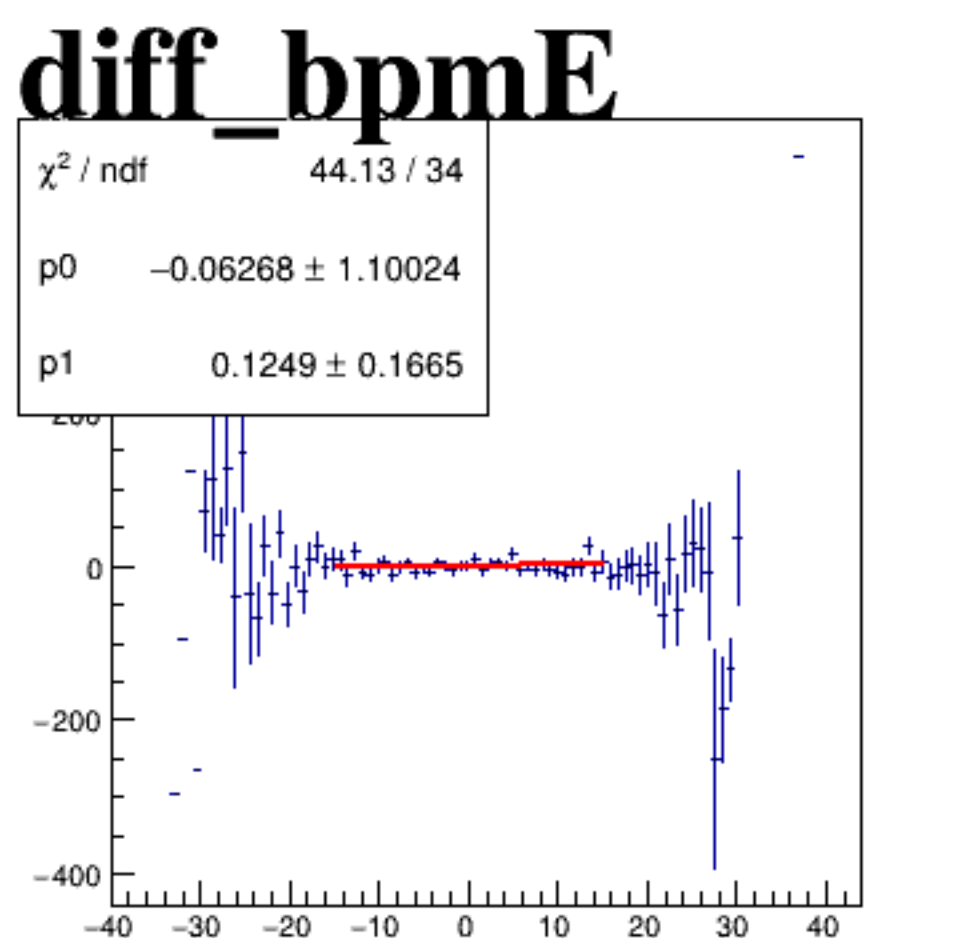
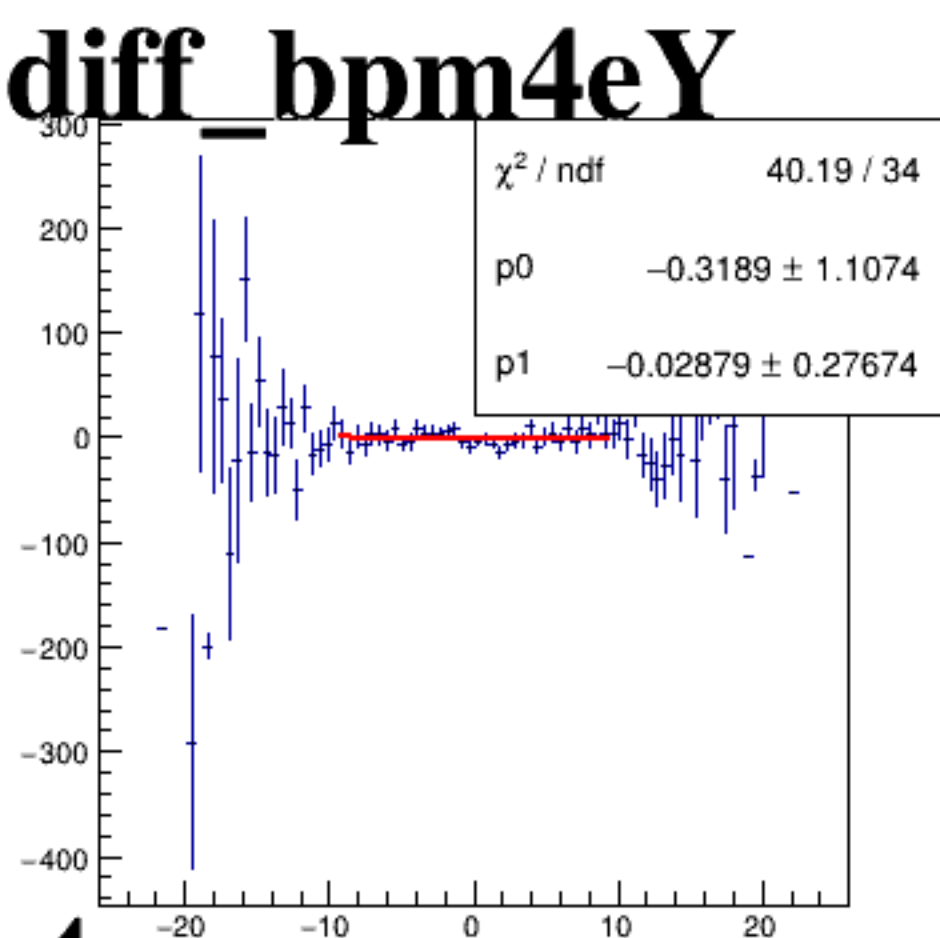
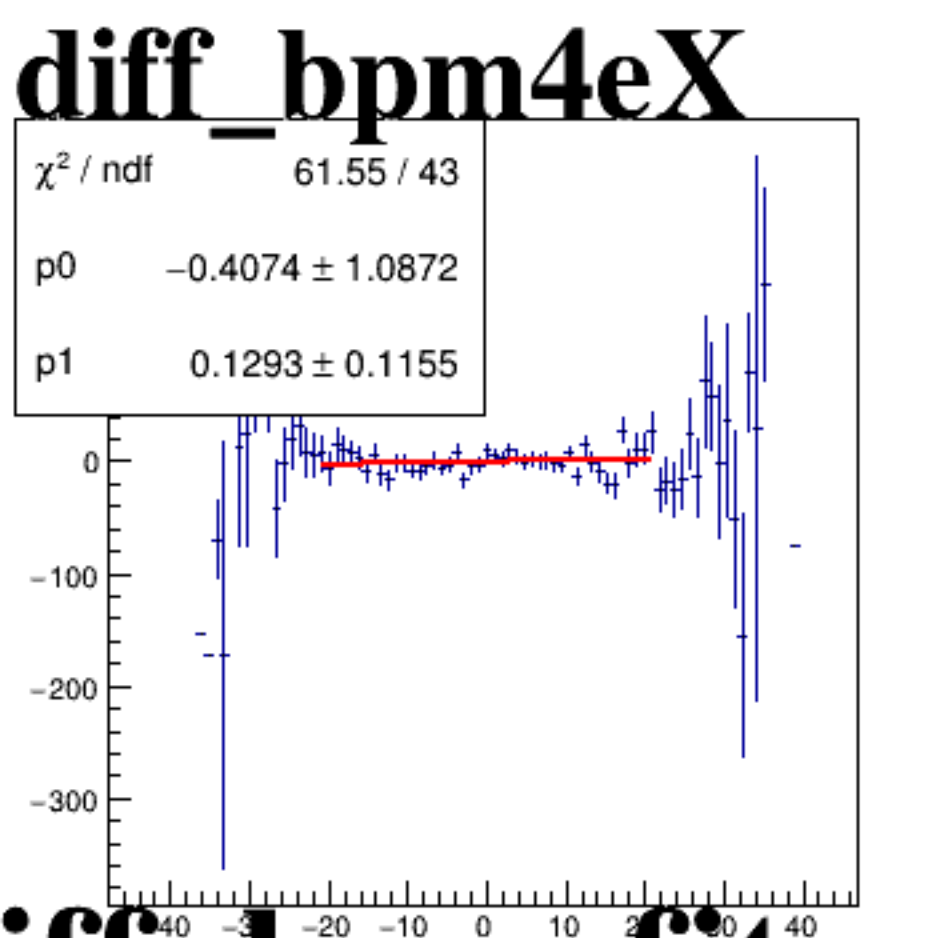
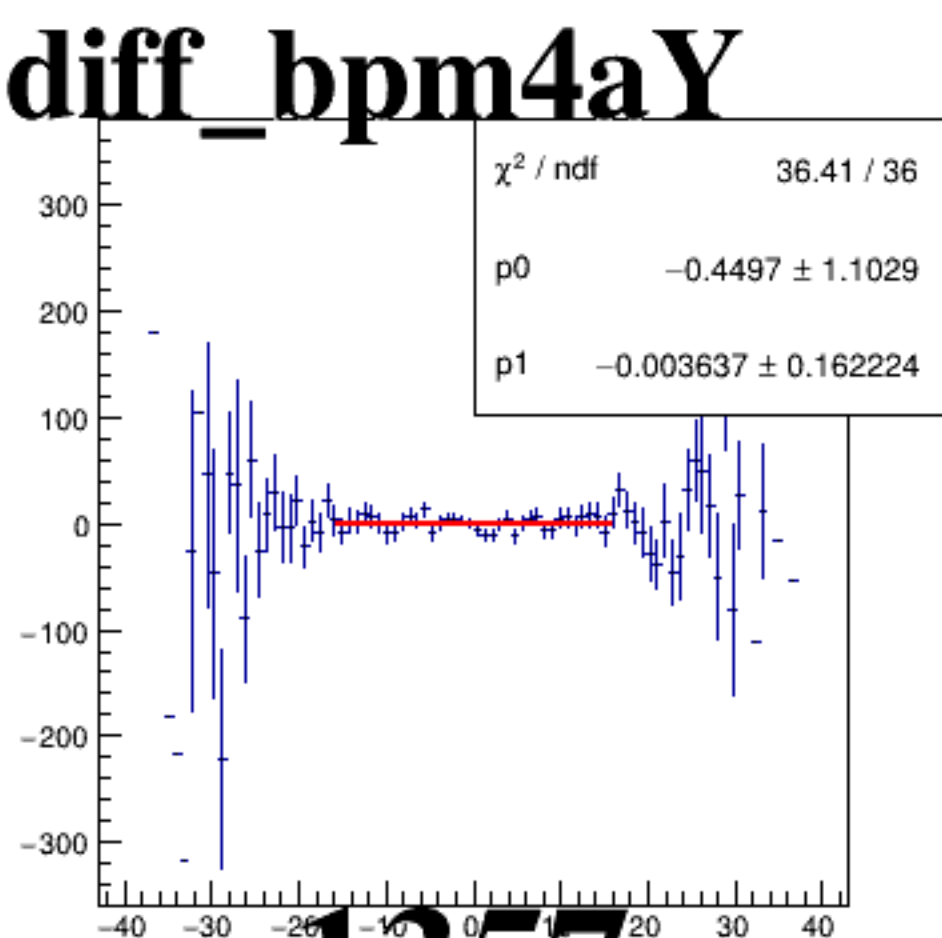
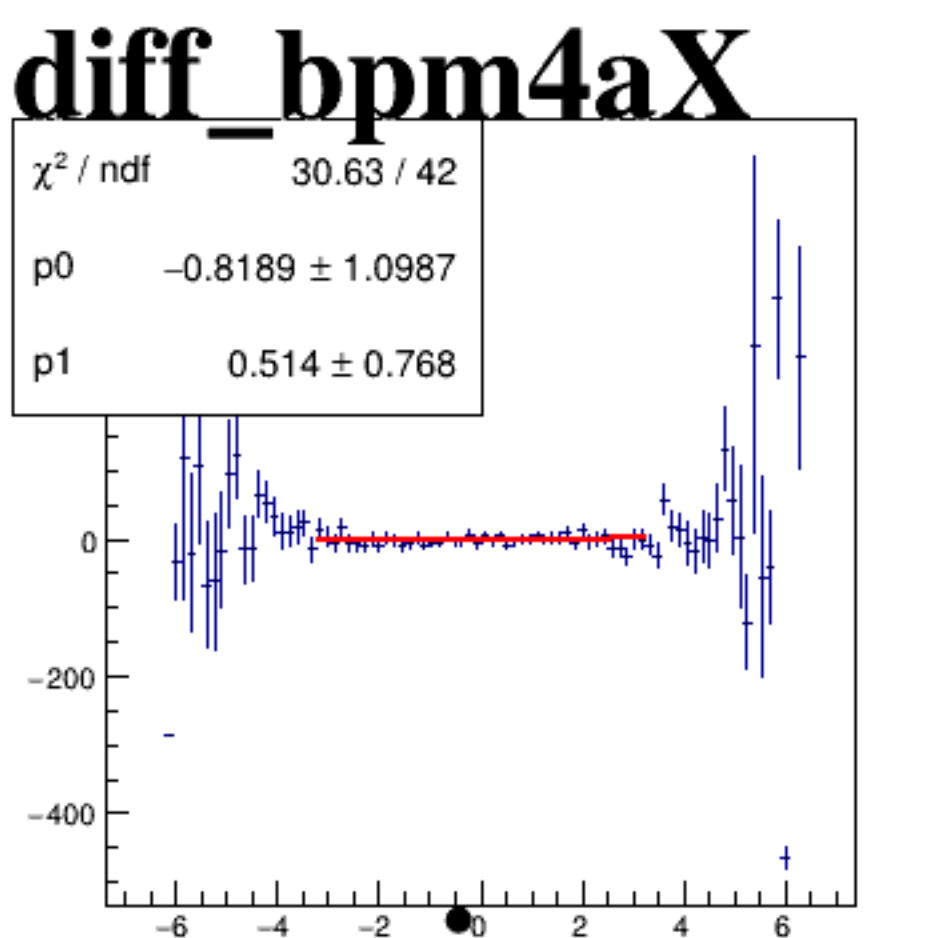
reg_asym_sam3



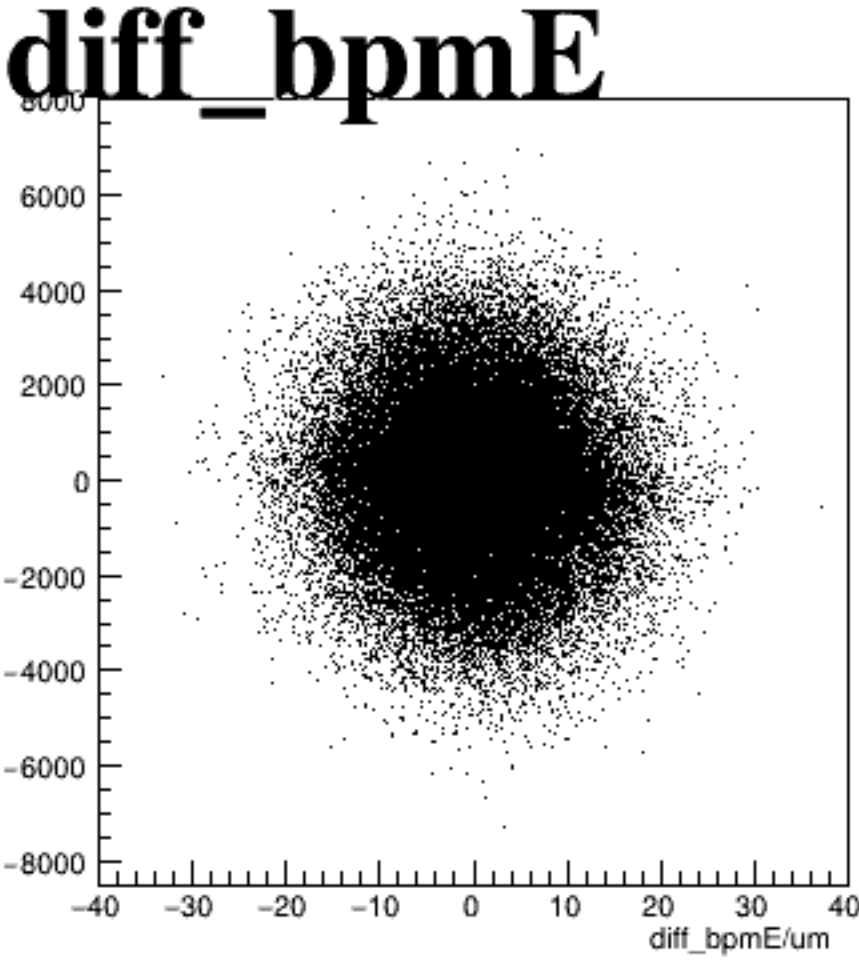
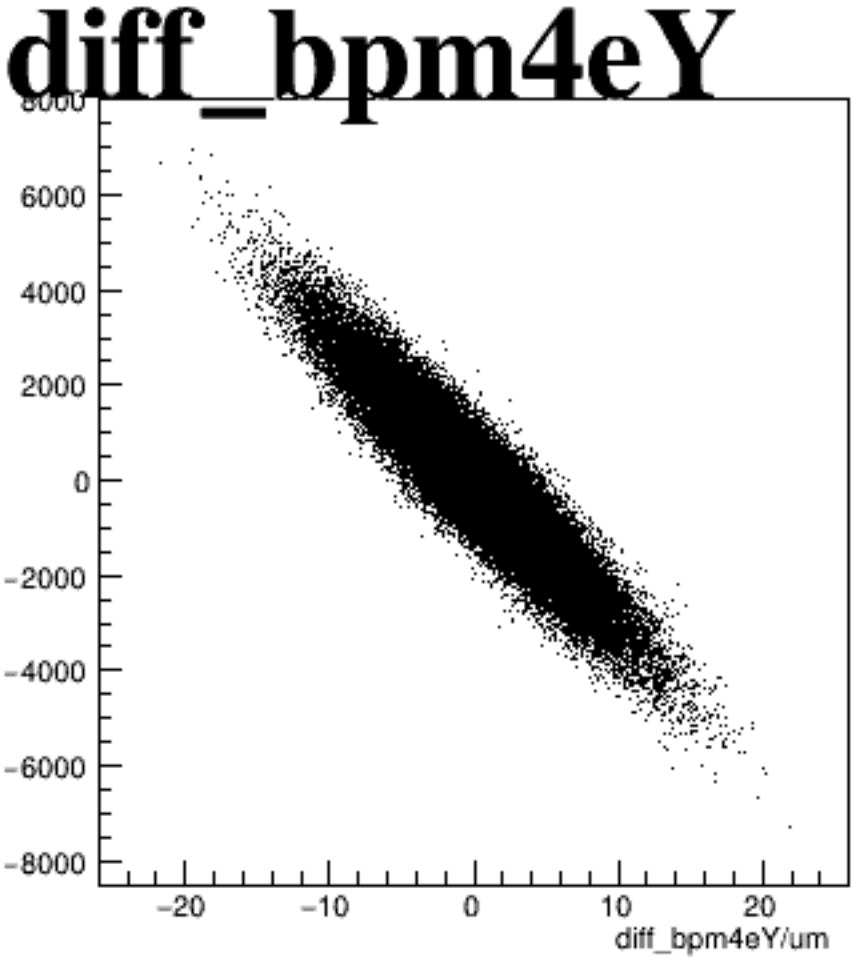
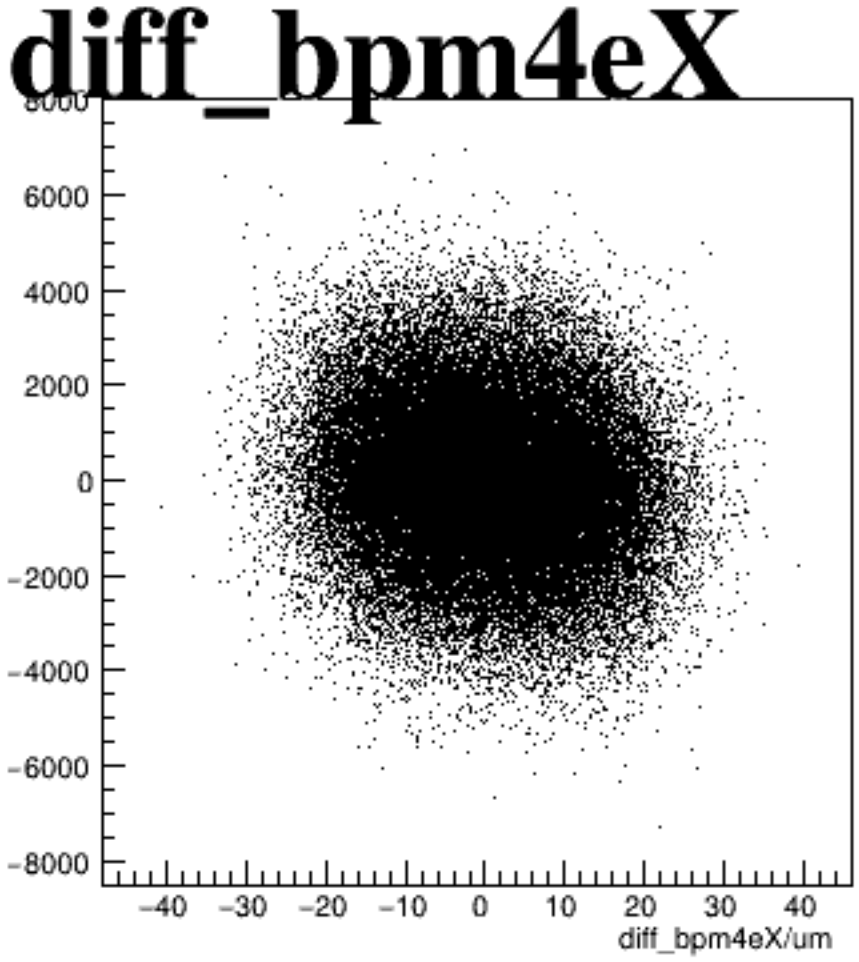
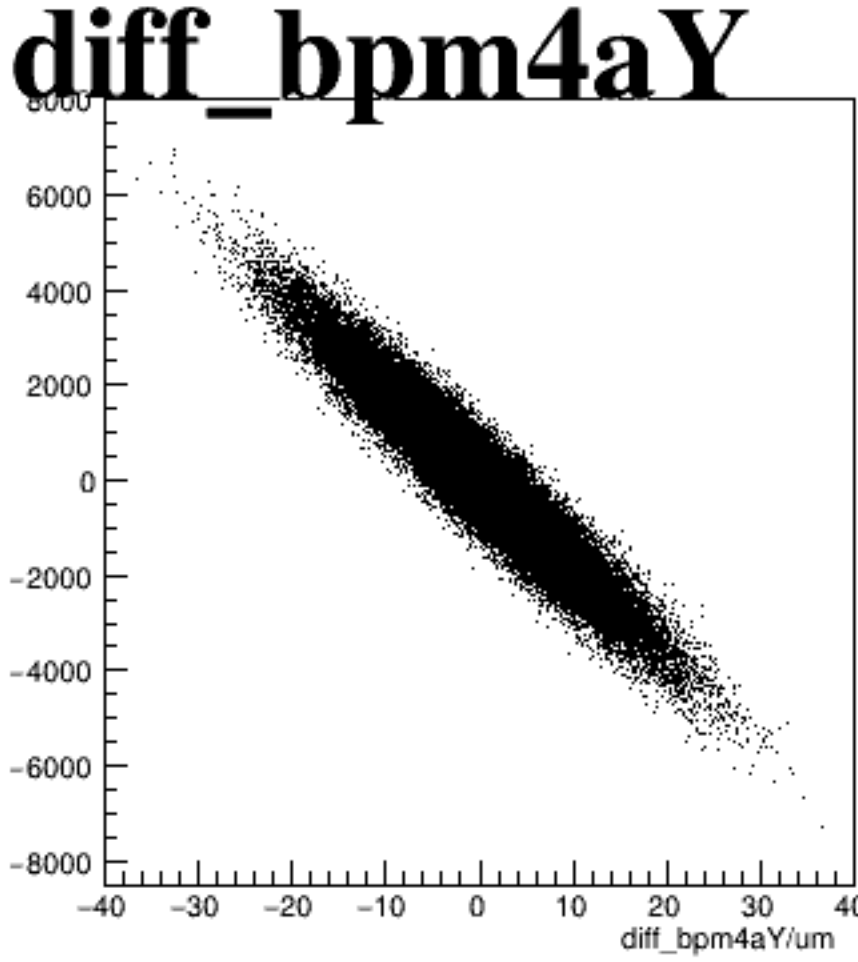
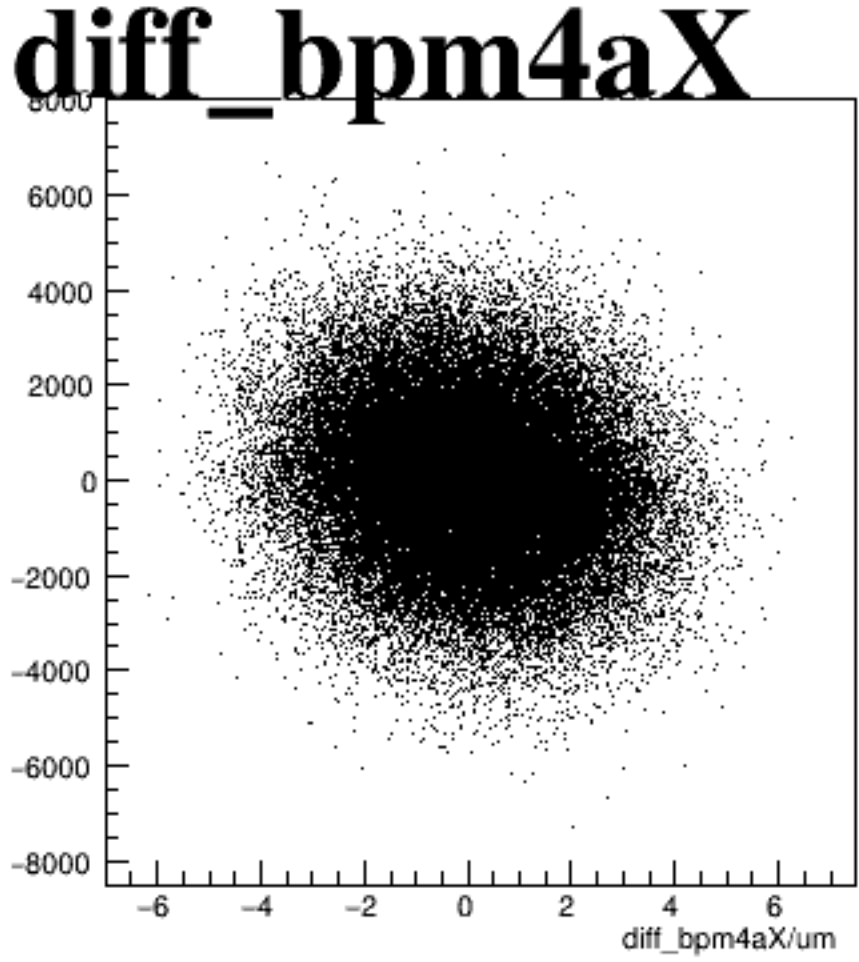
reg_asym_sam5



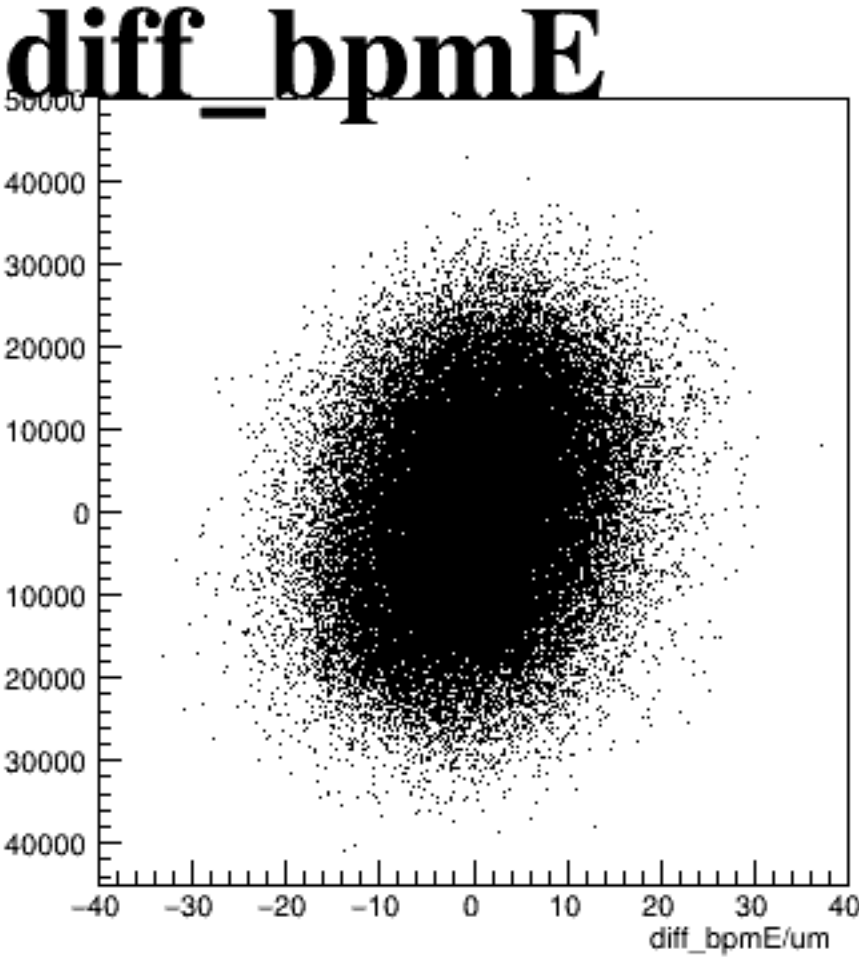
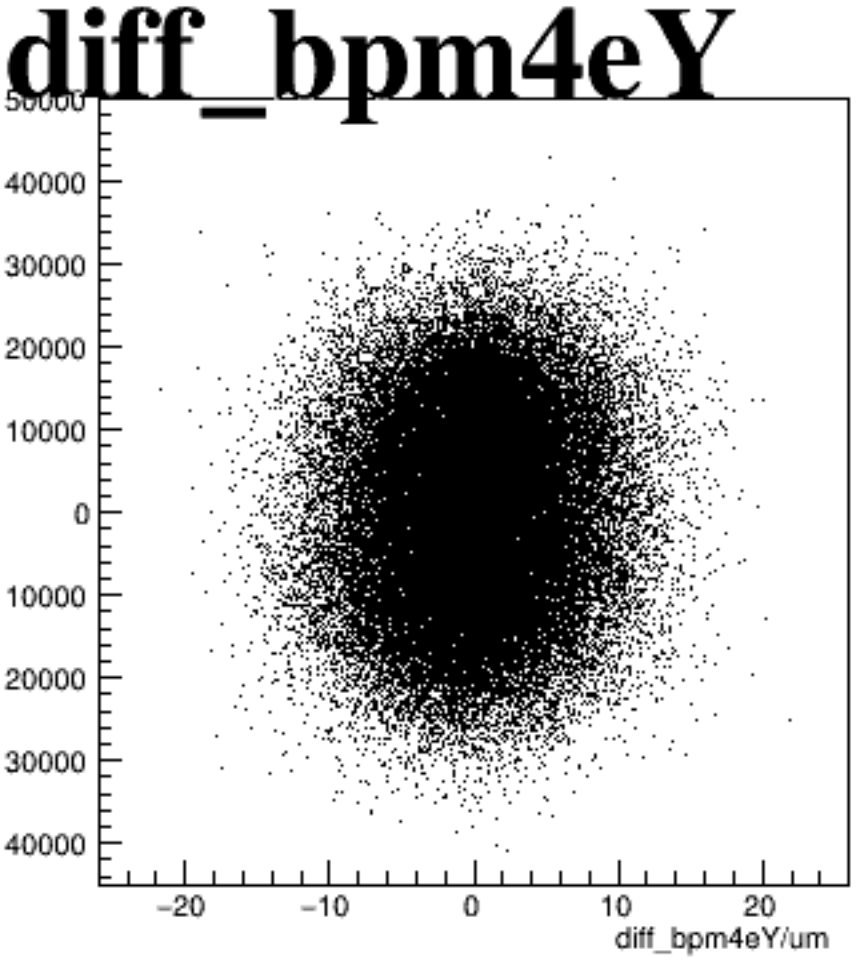
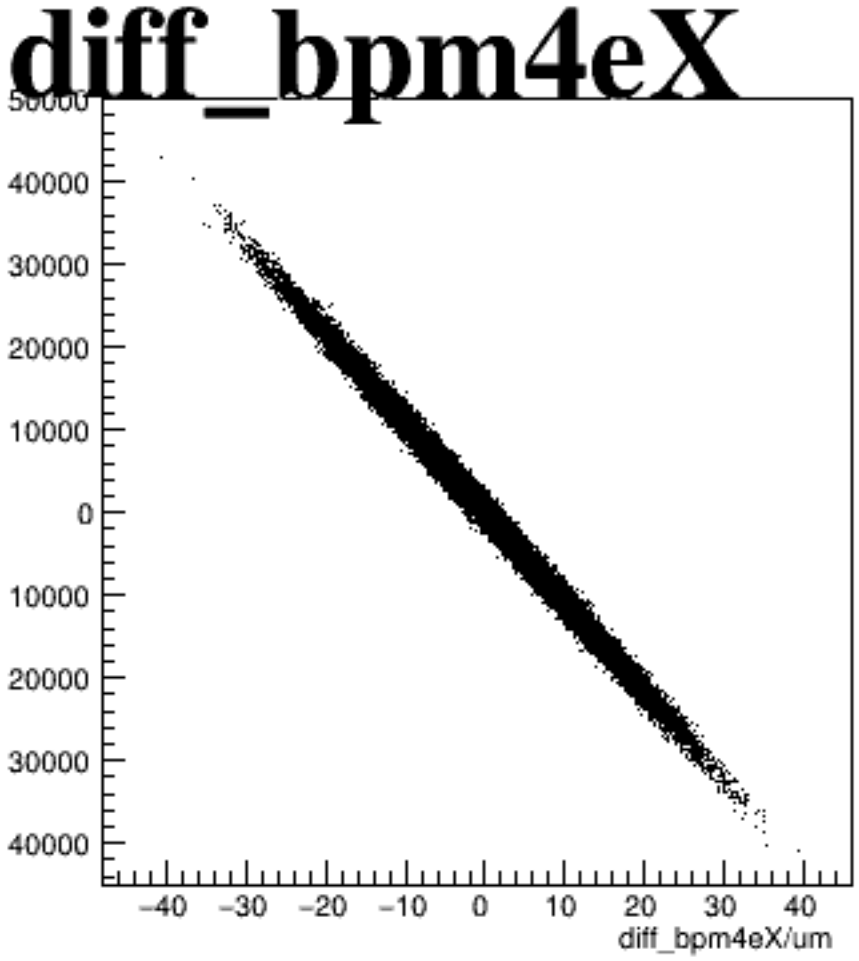
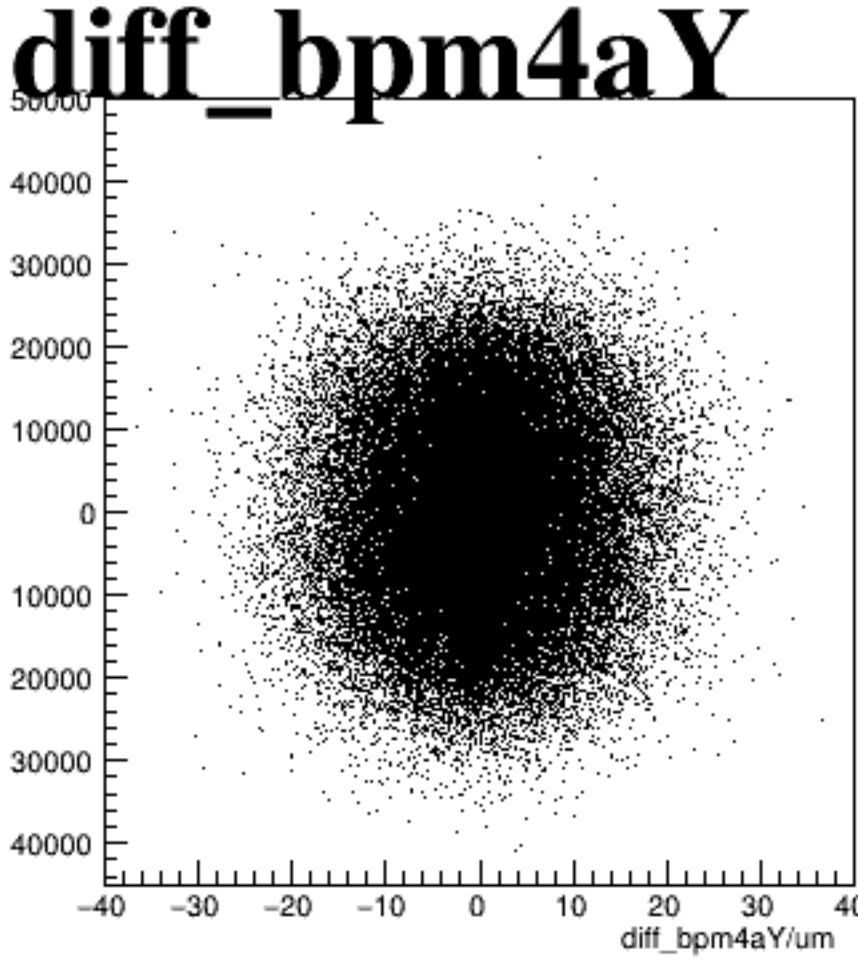
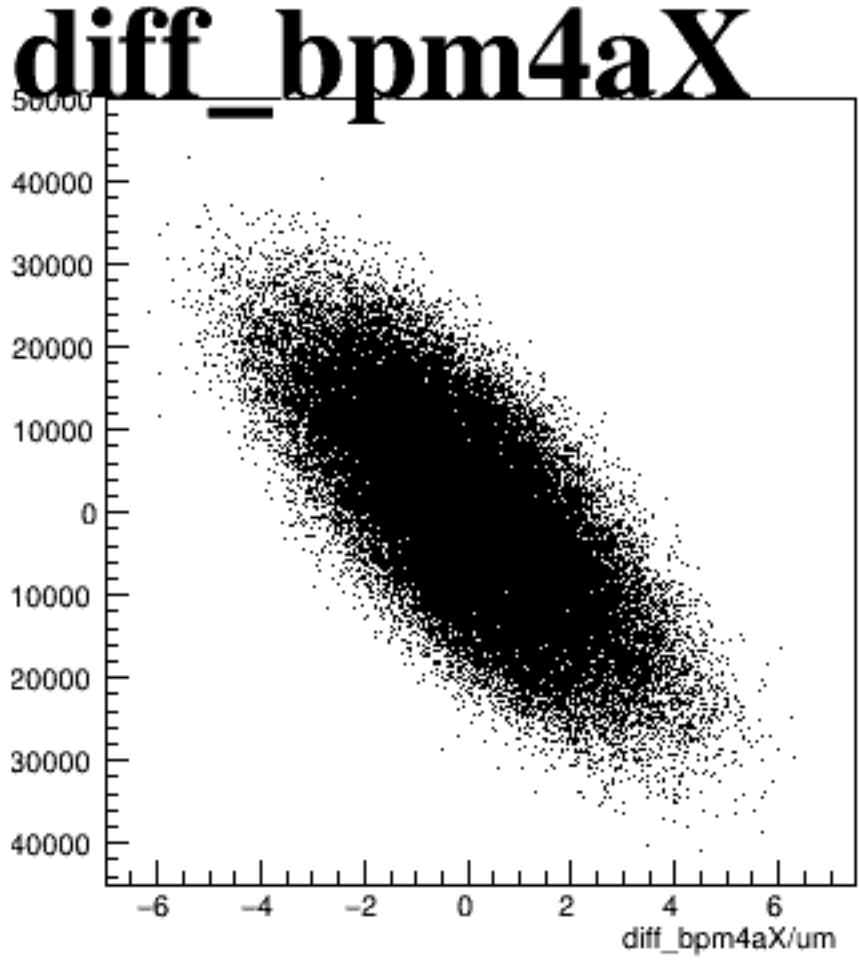
reg_asym_sam7



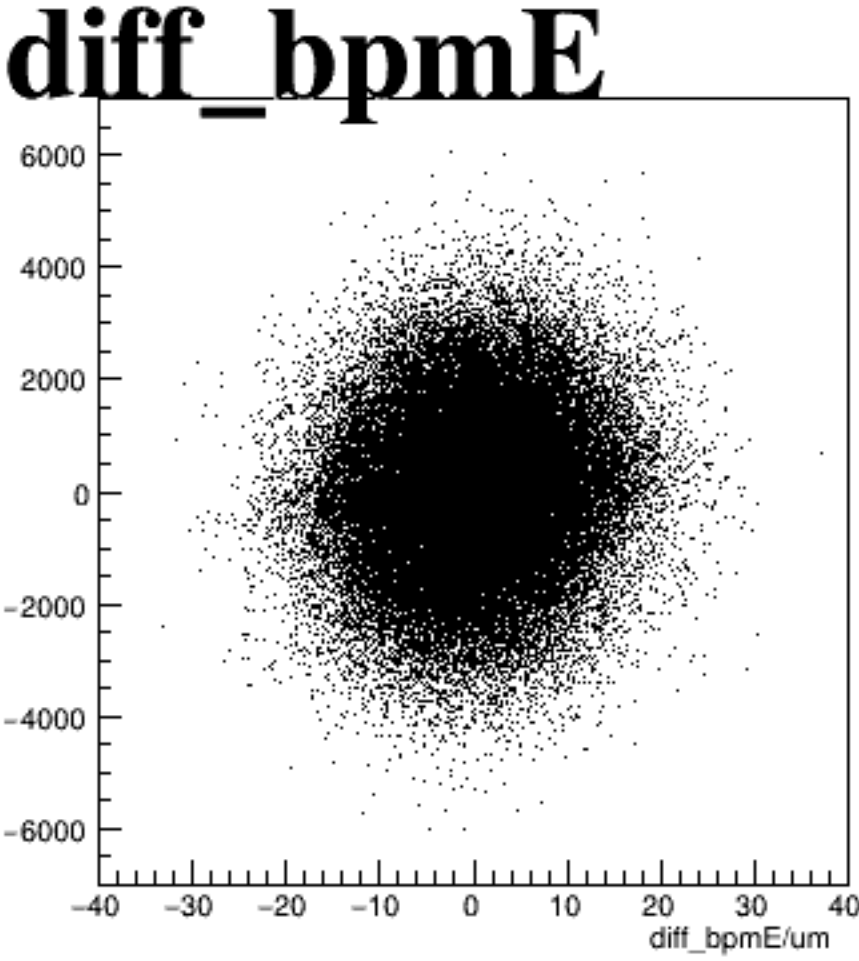
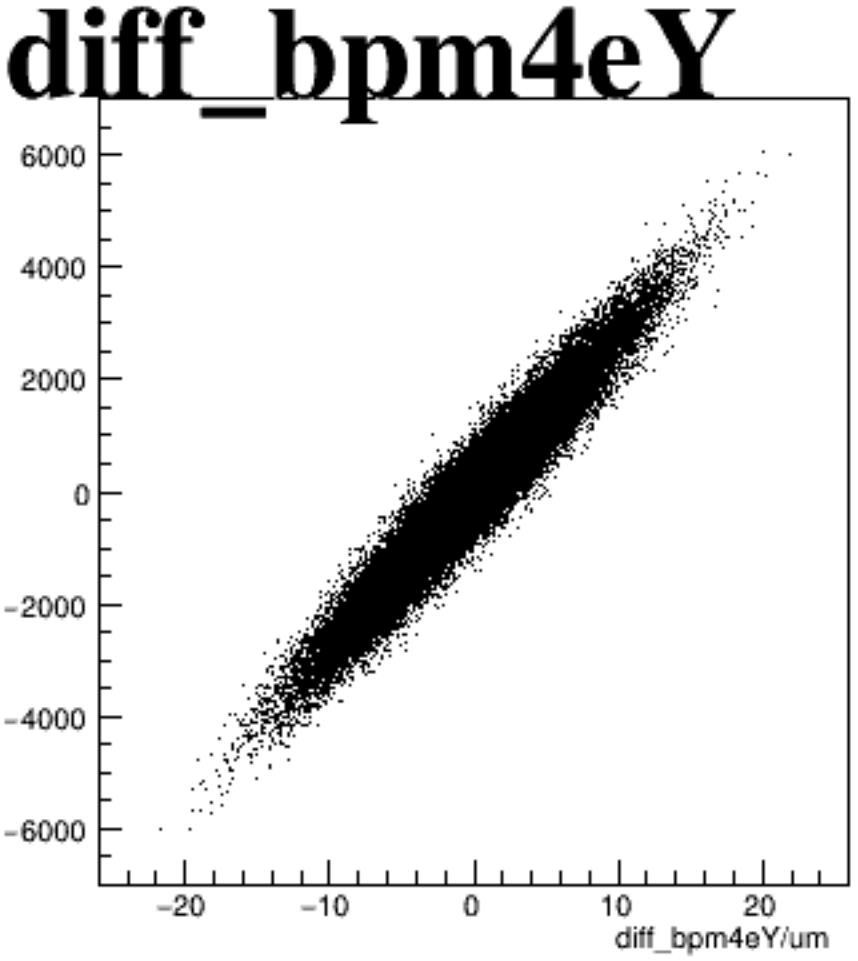
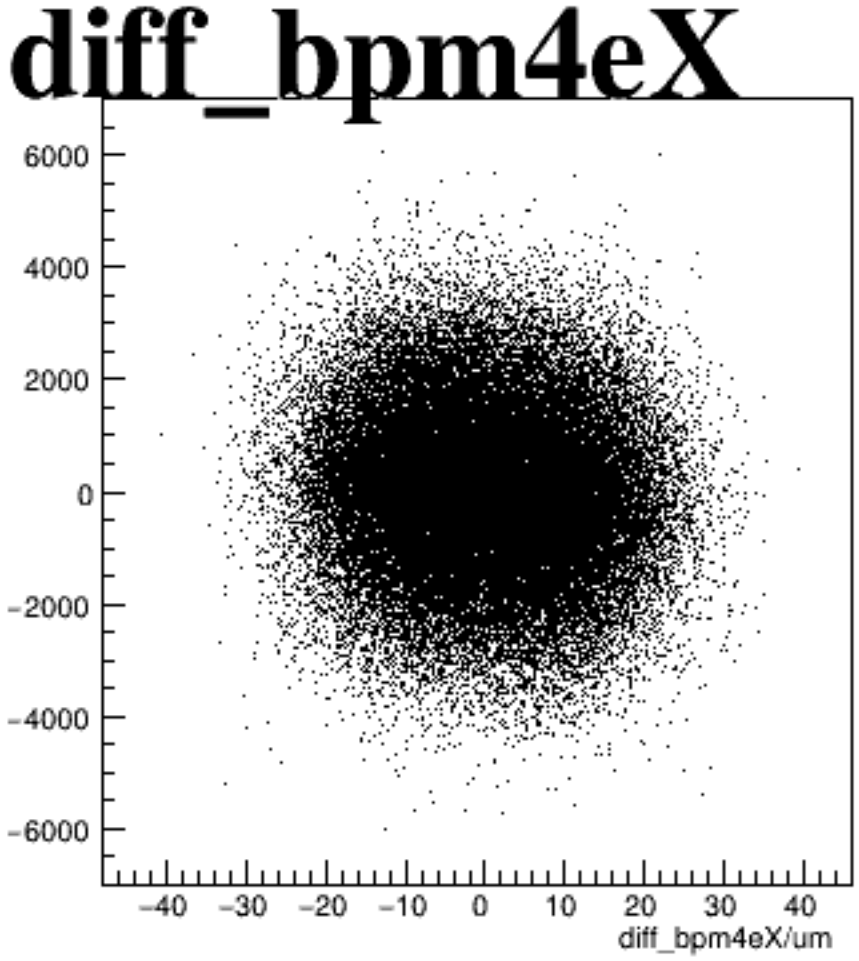
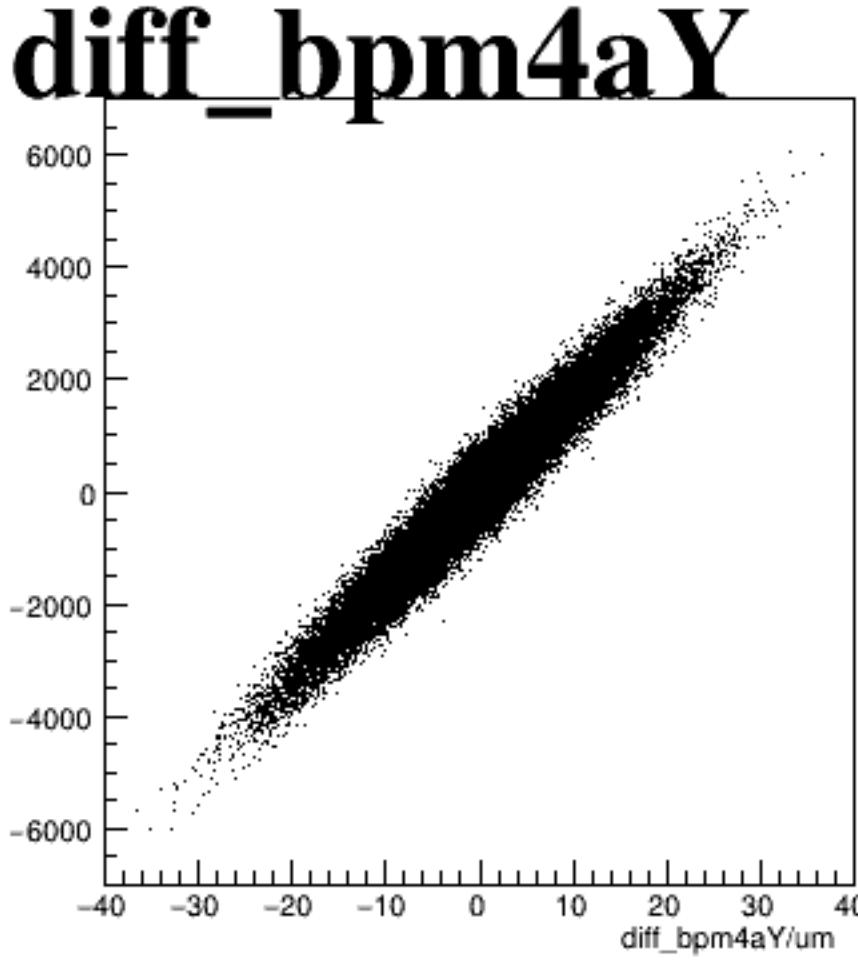
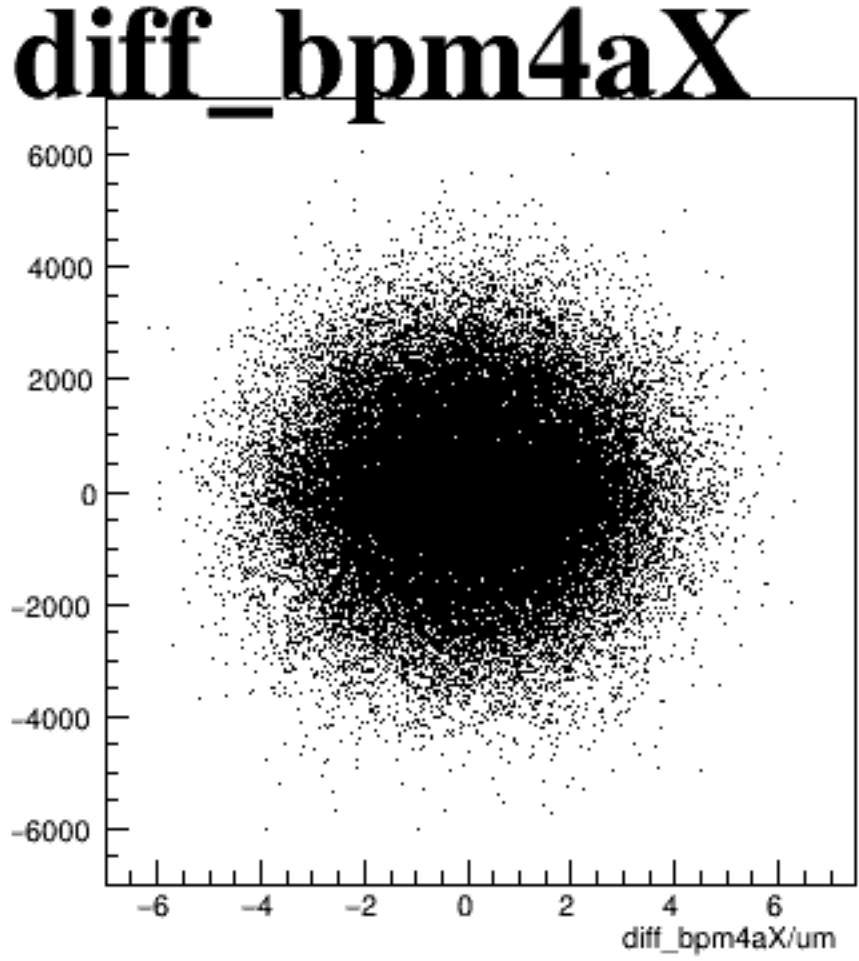
asym_sam1



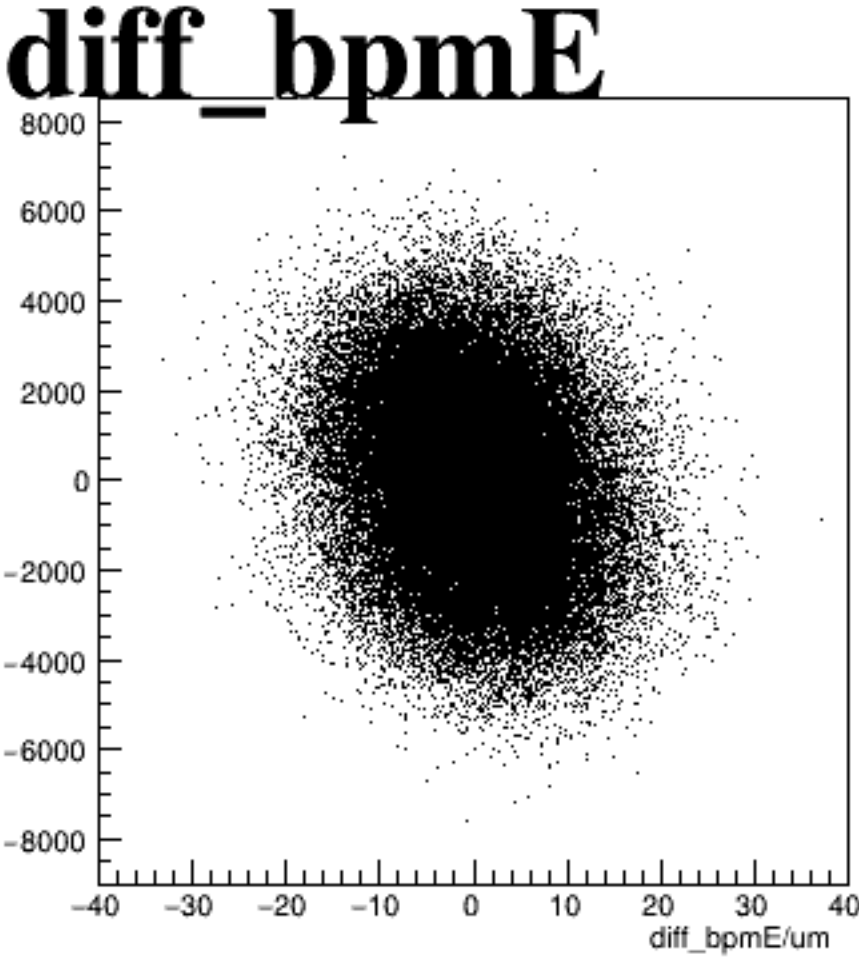
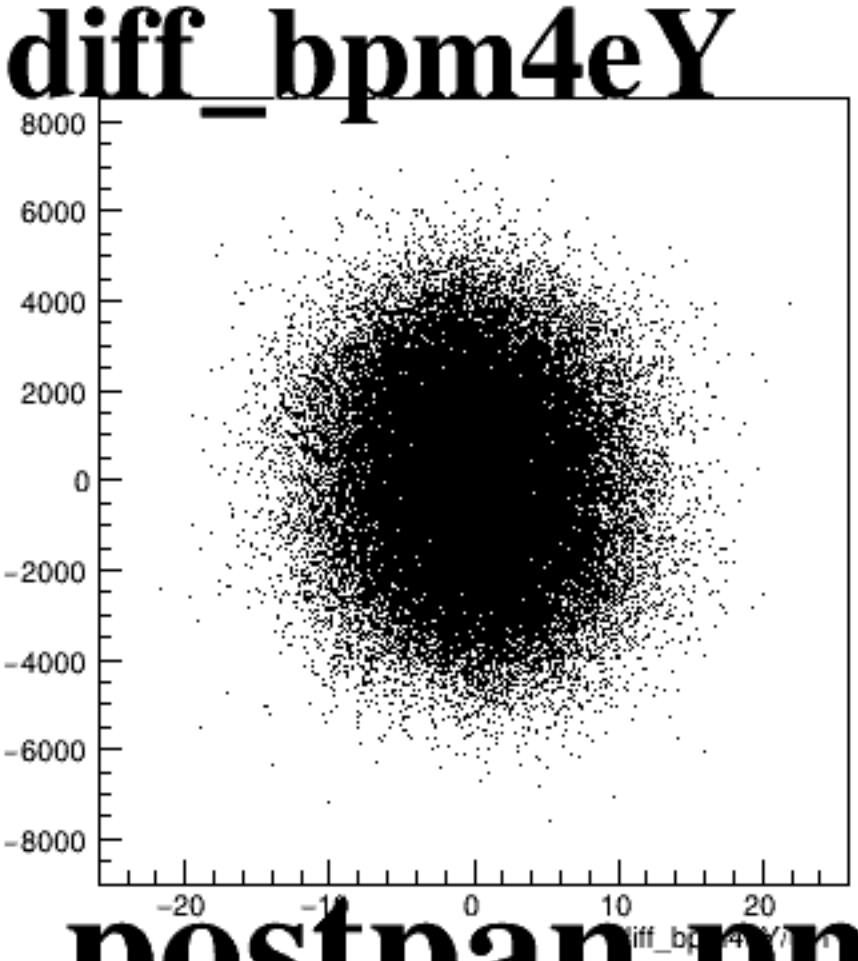
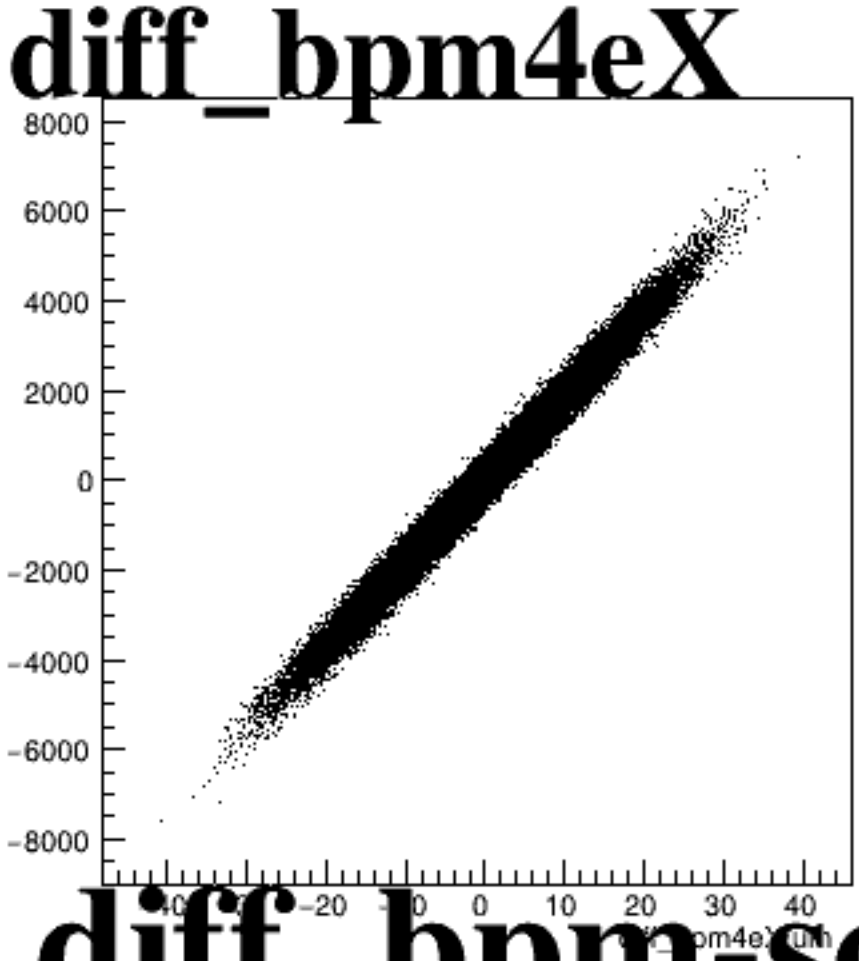
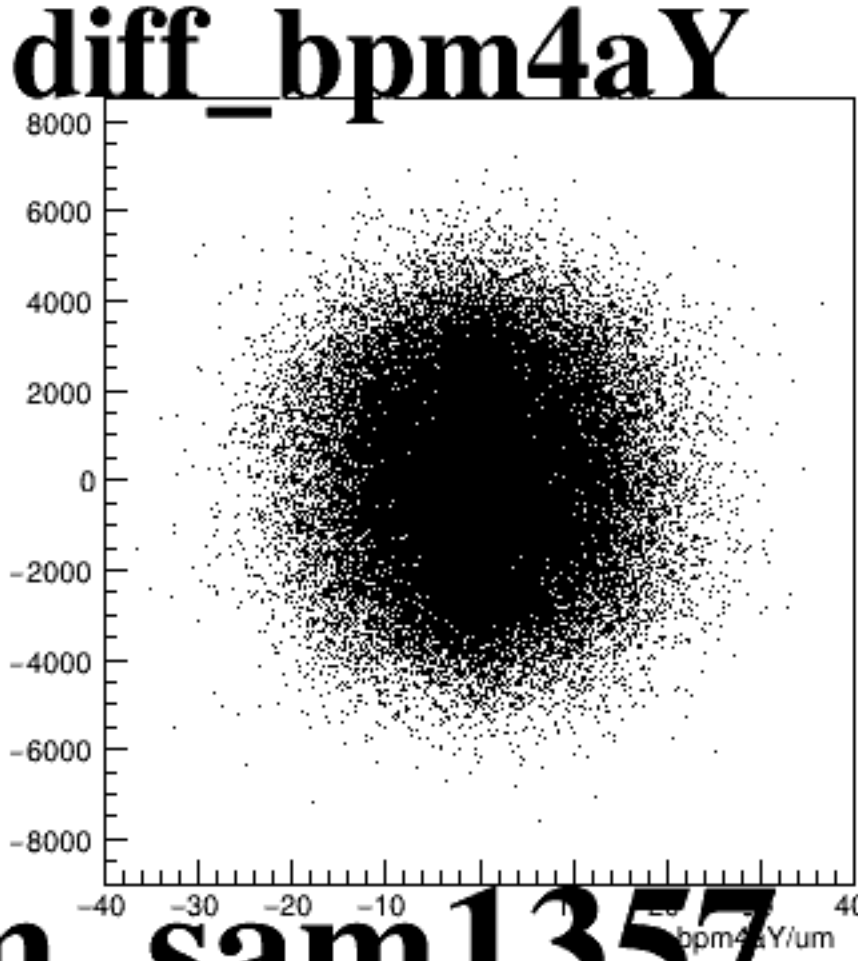
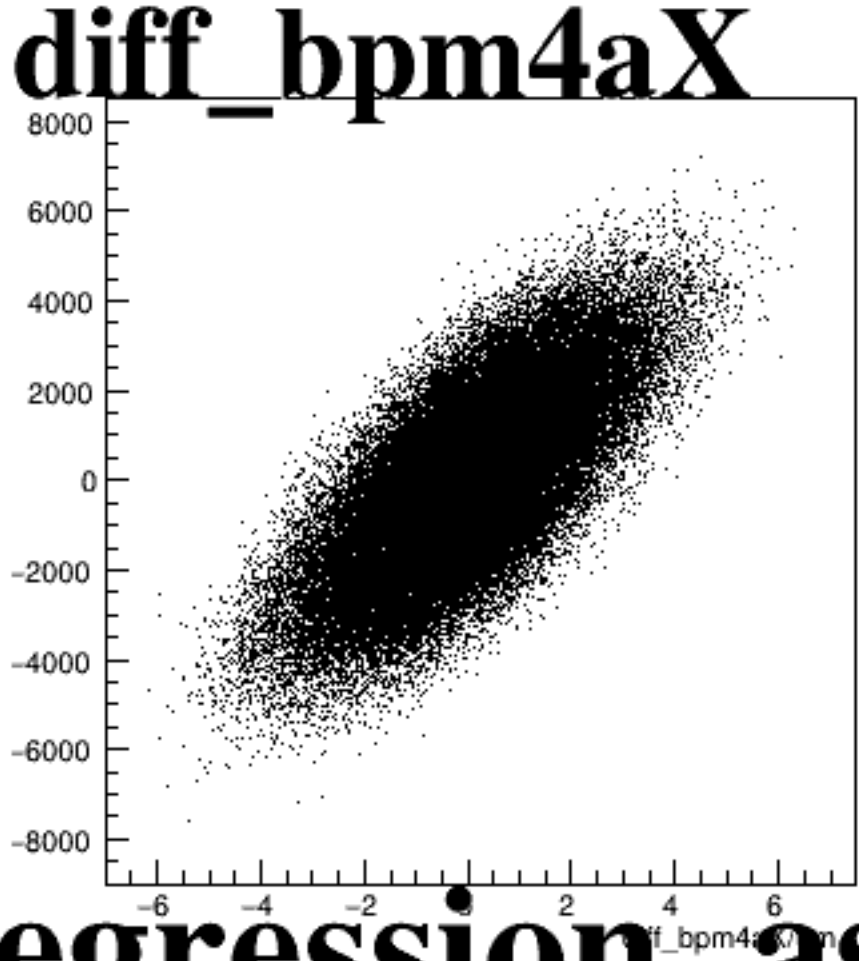
asym_sam3



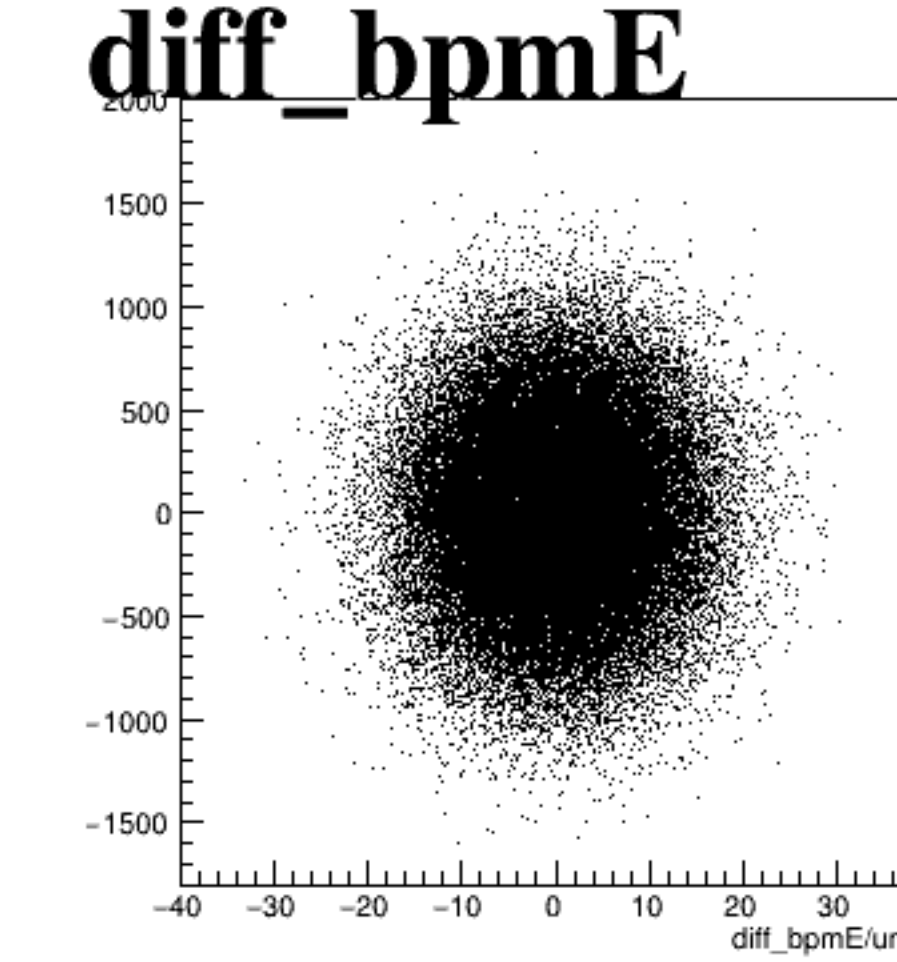
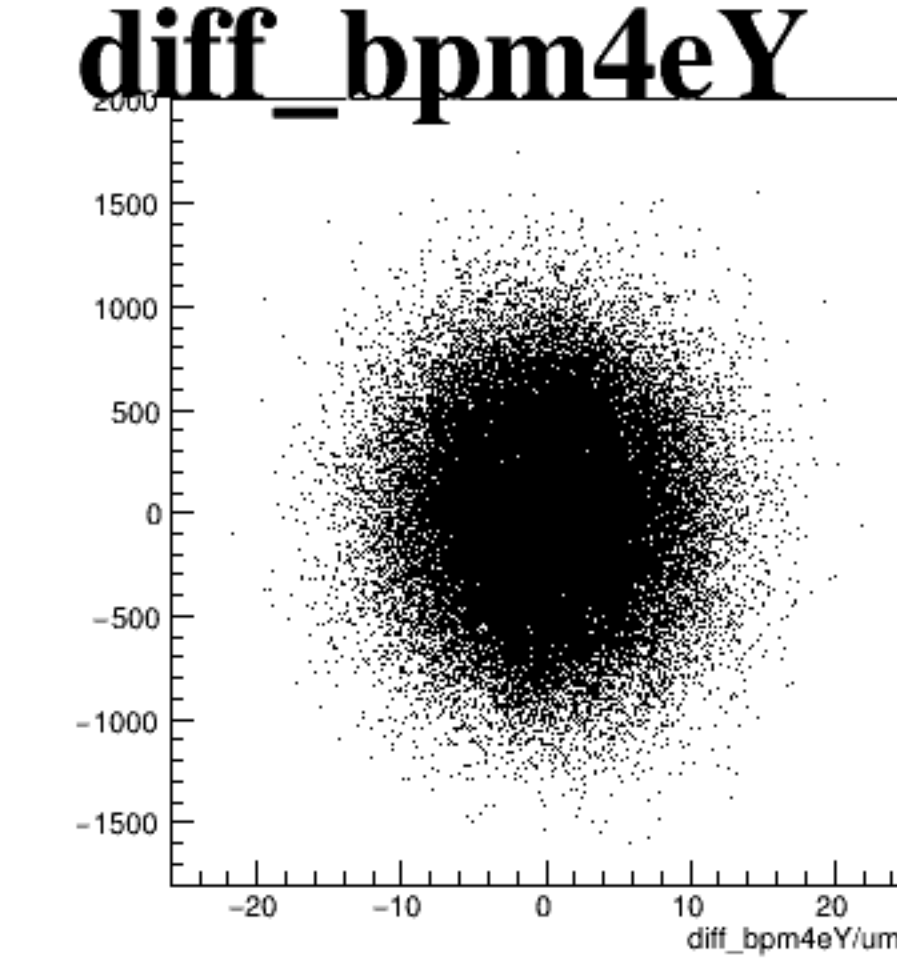
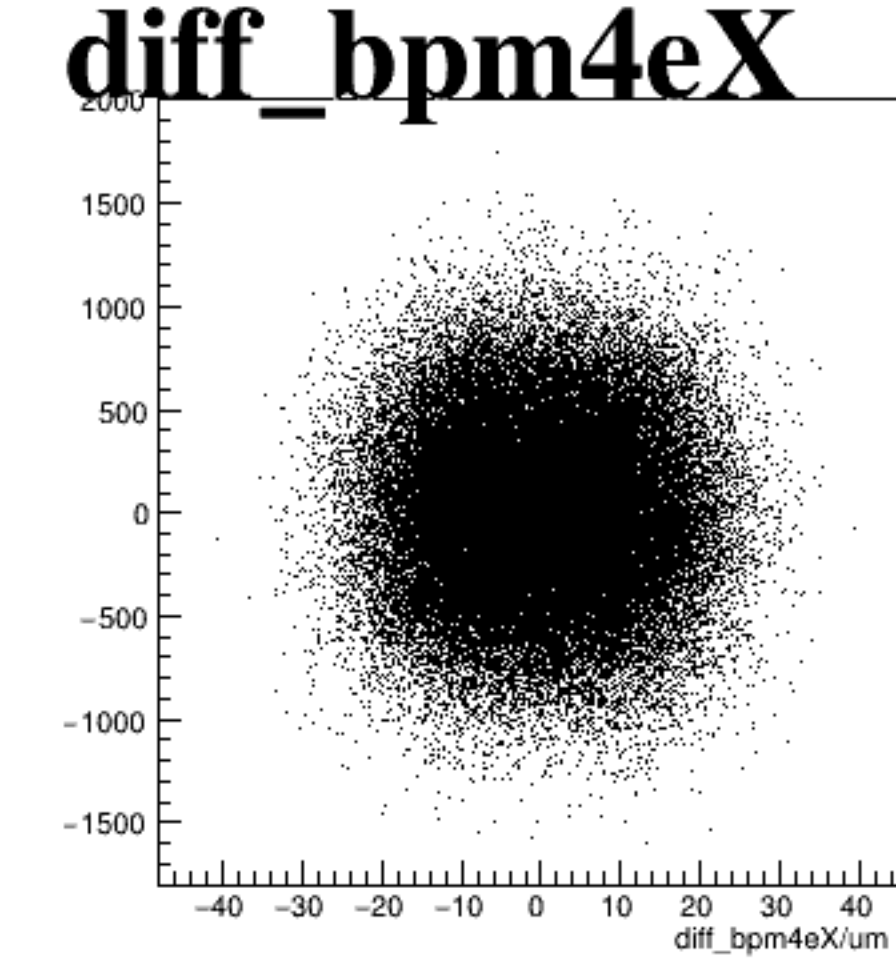
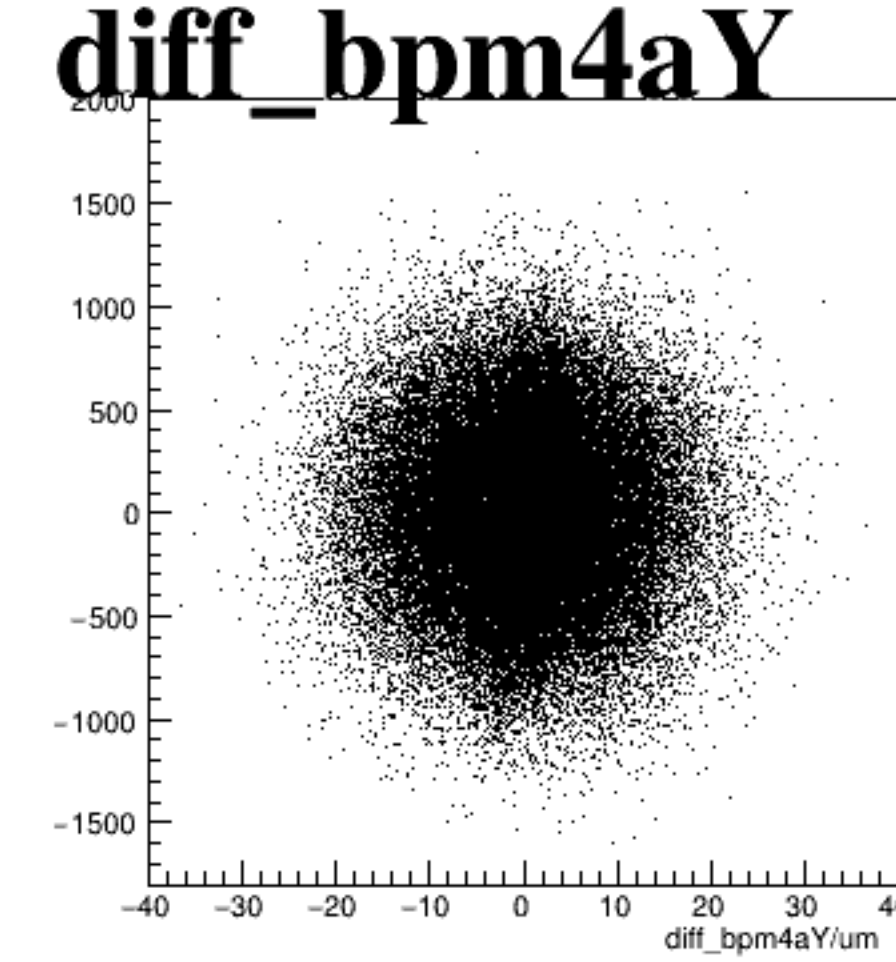
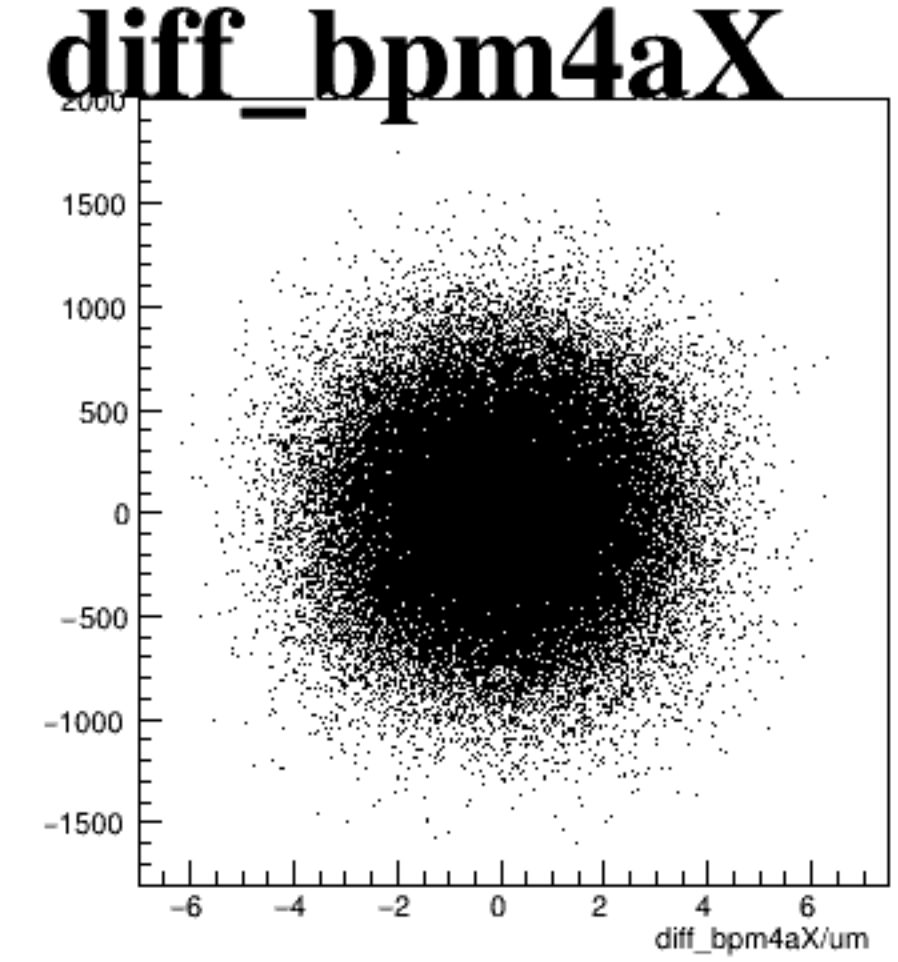
asym_sam5



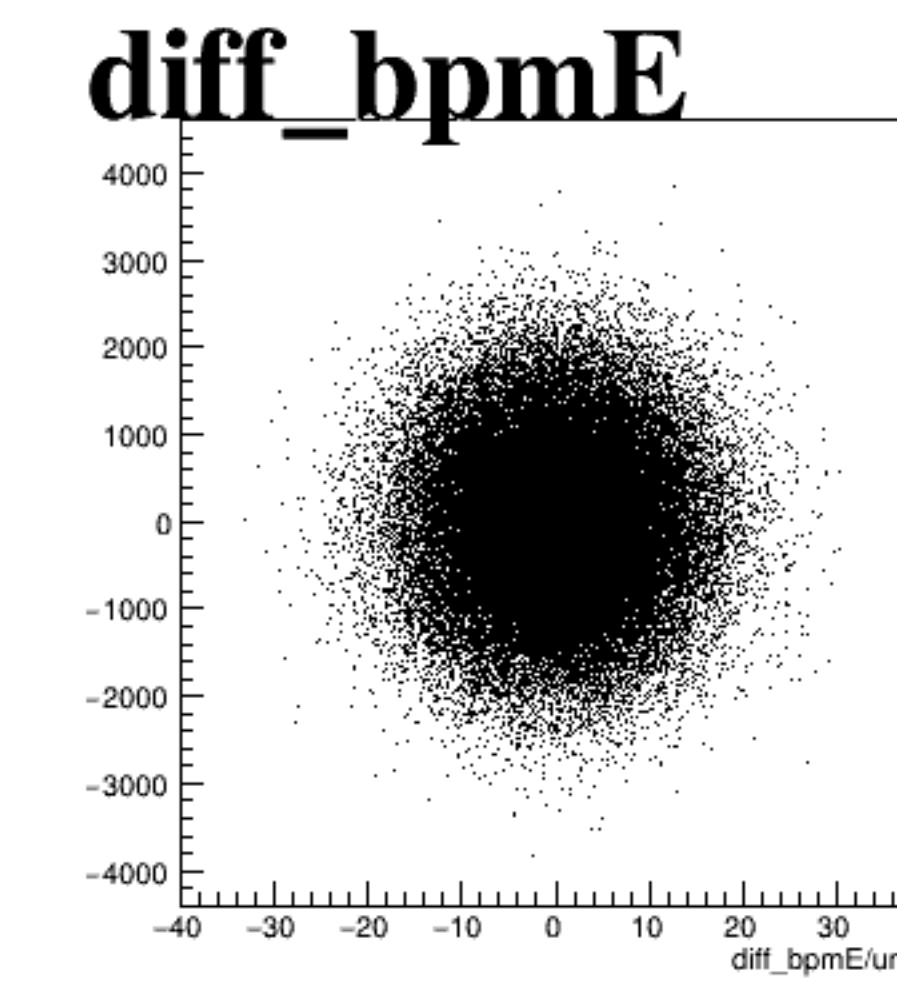
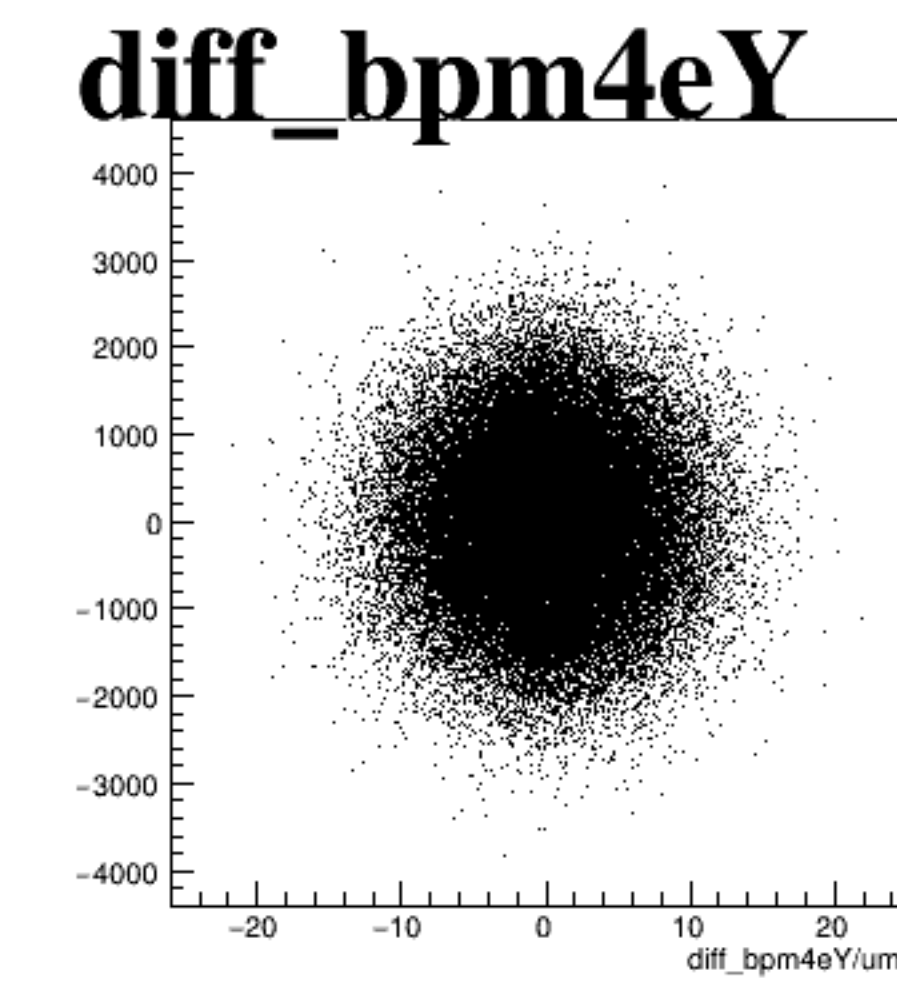
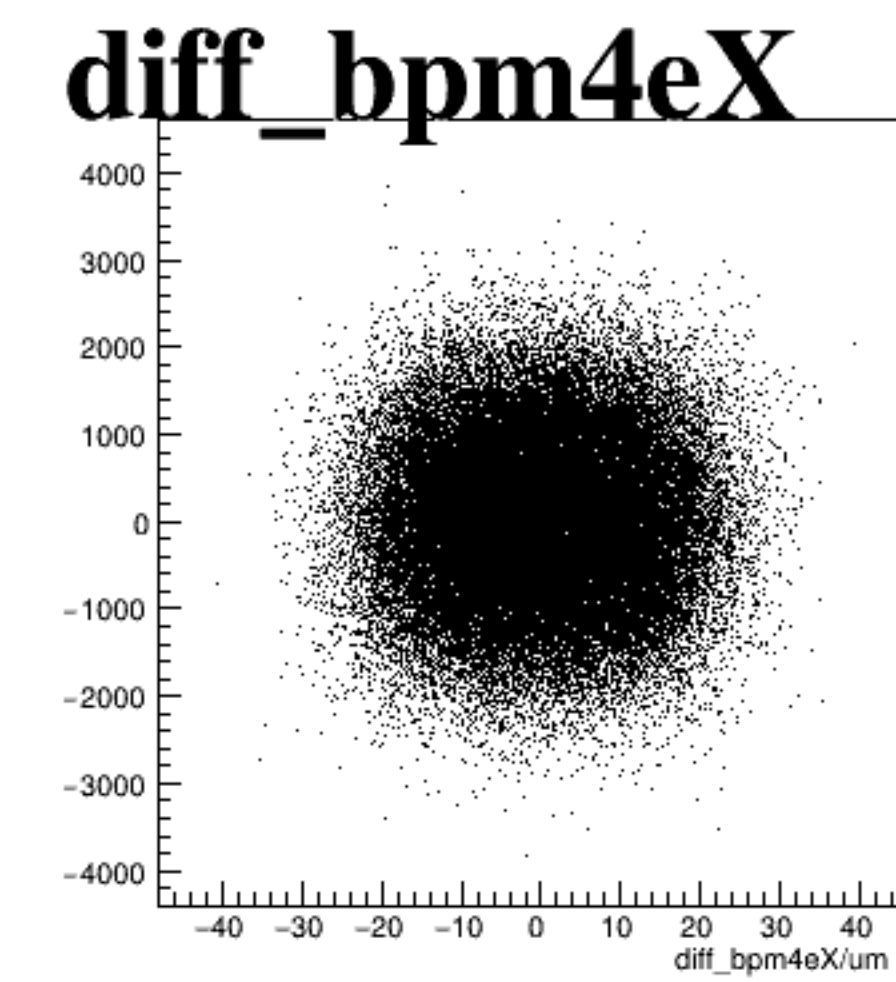
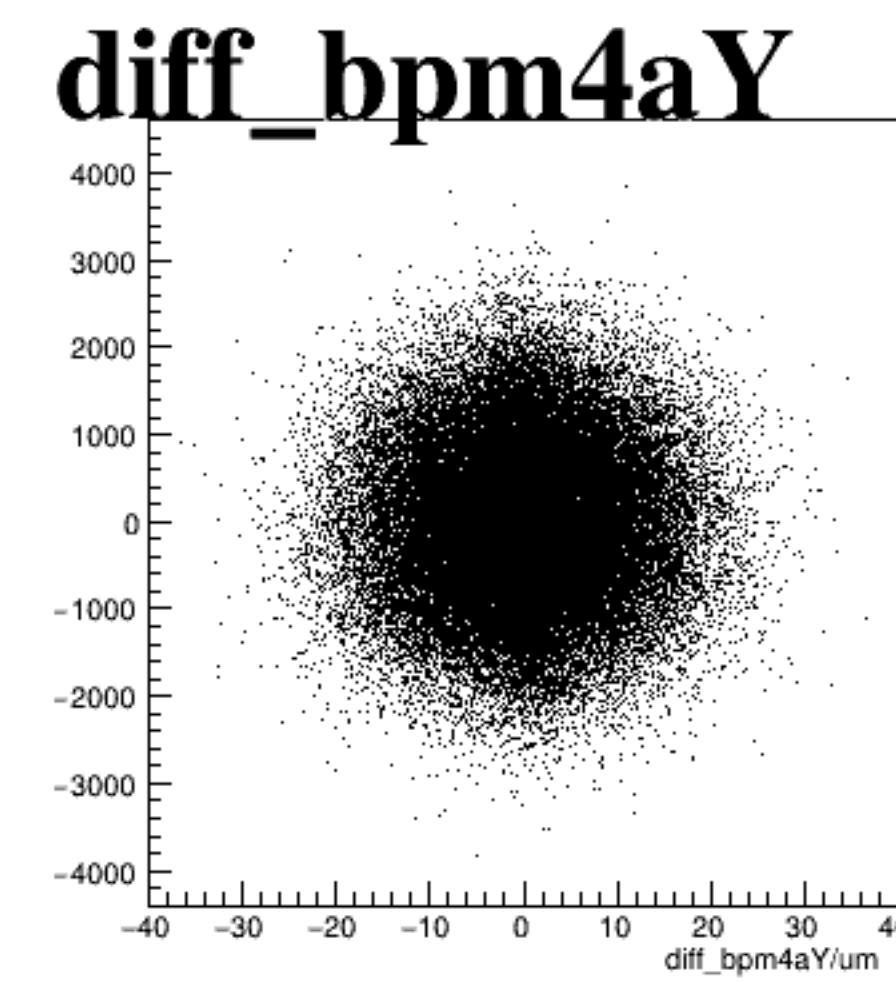
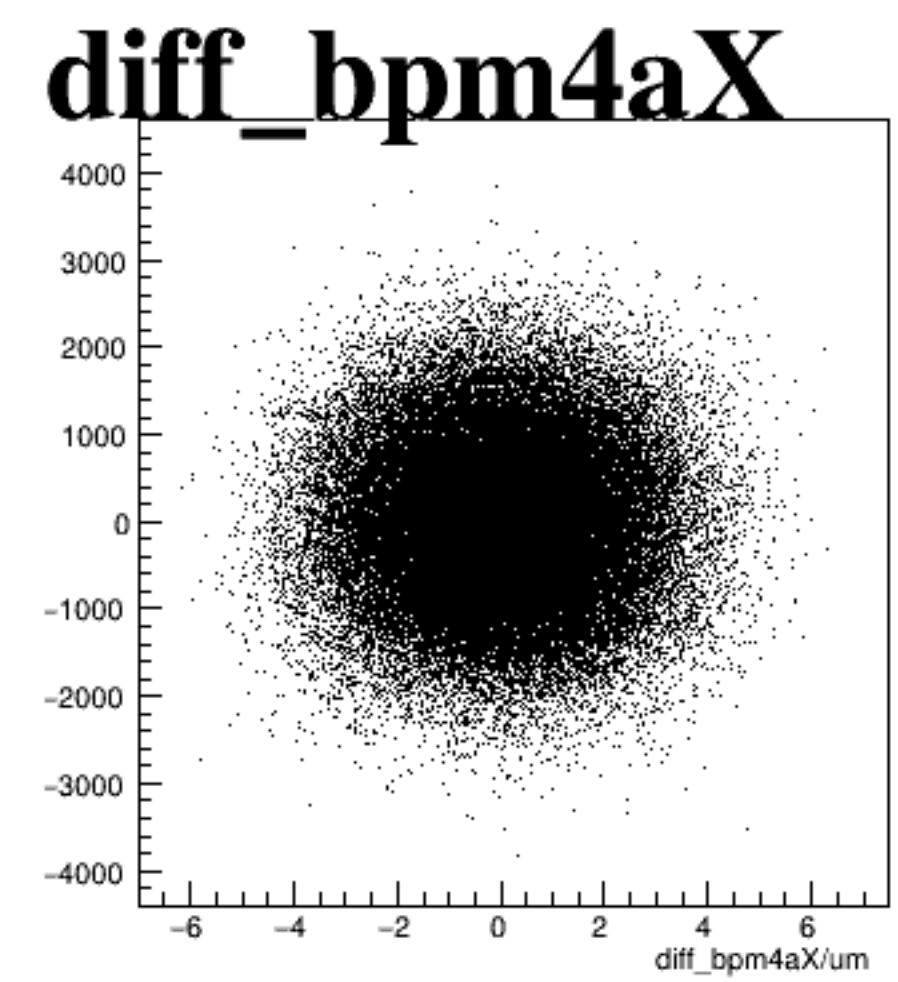
asym_sam7



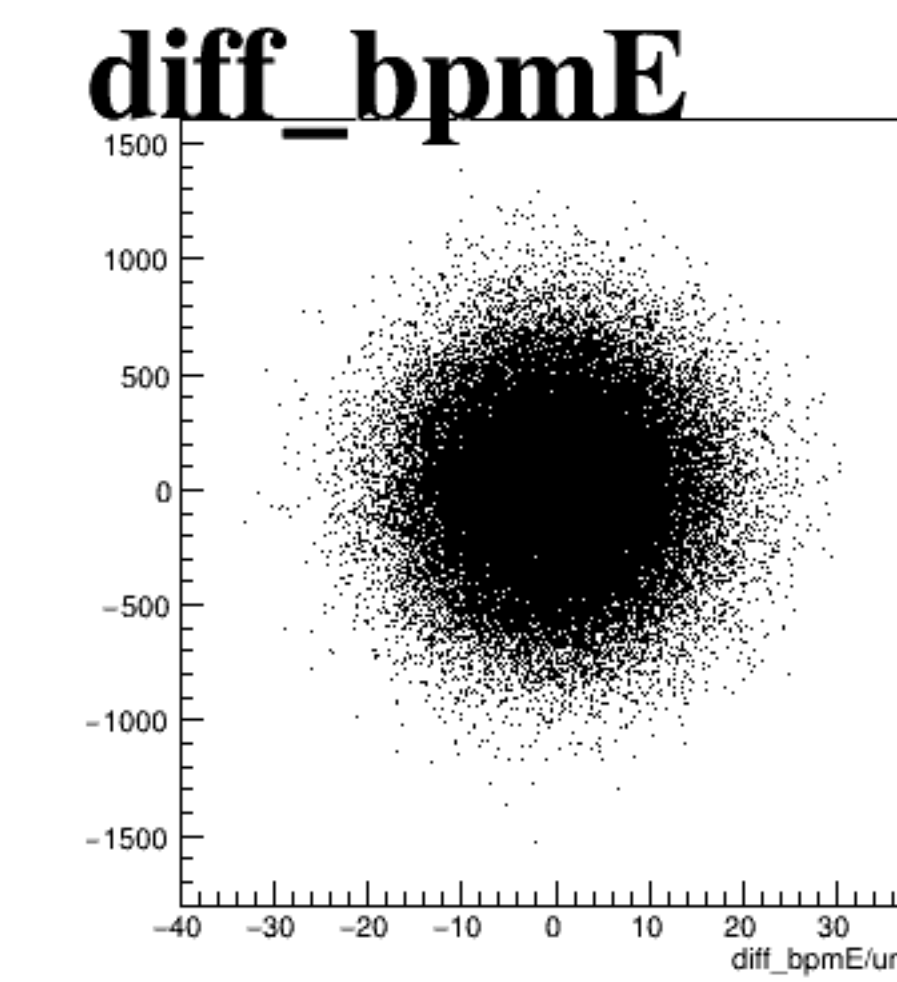
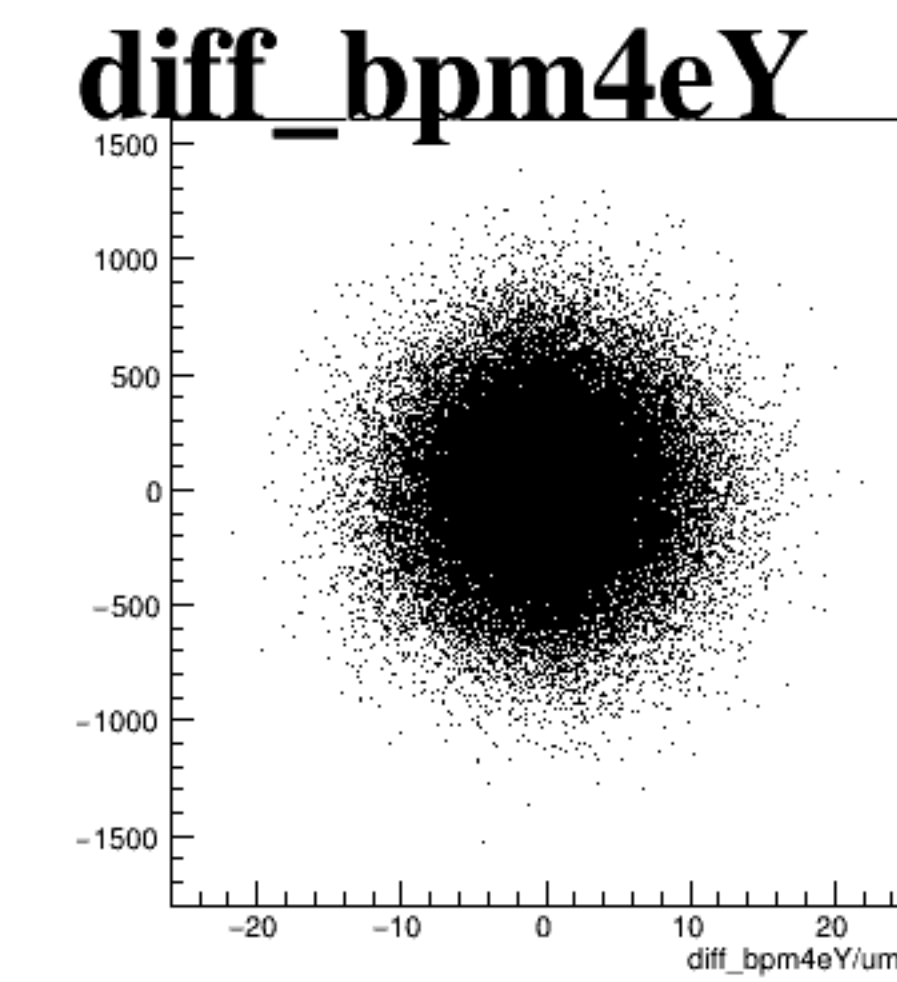
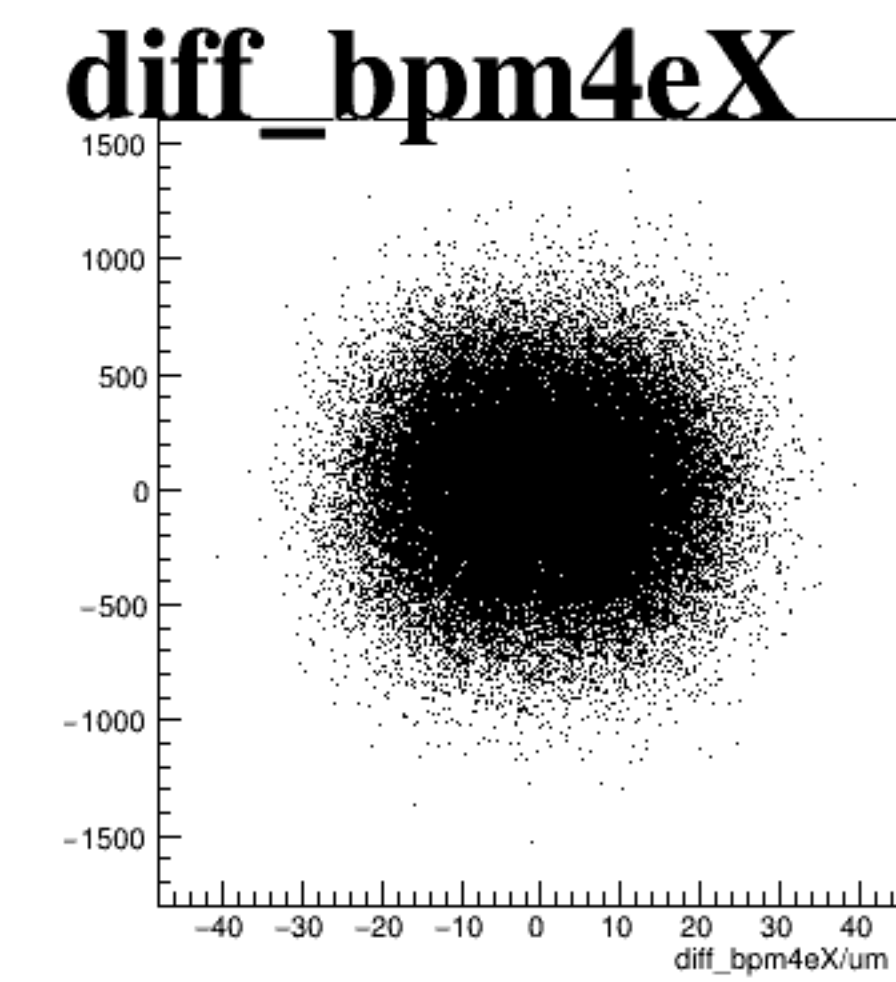
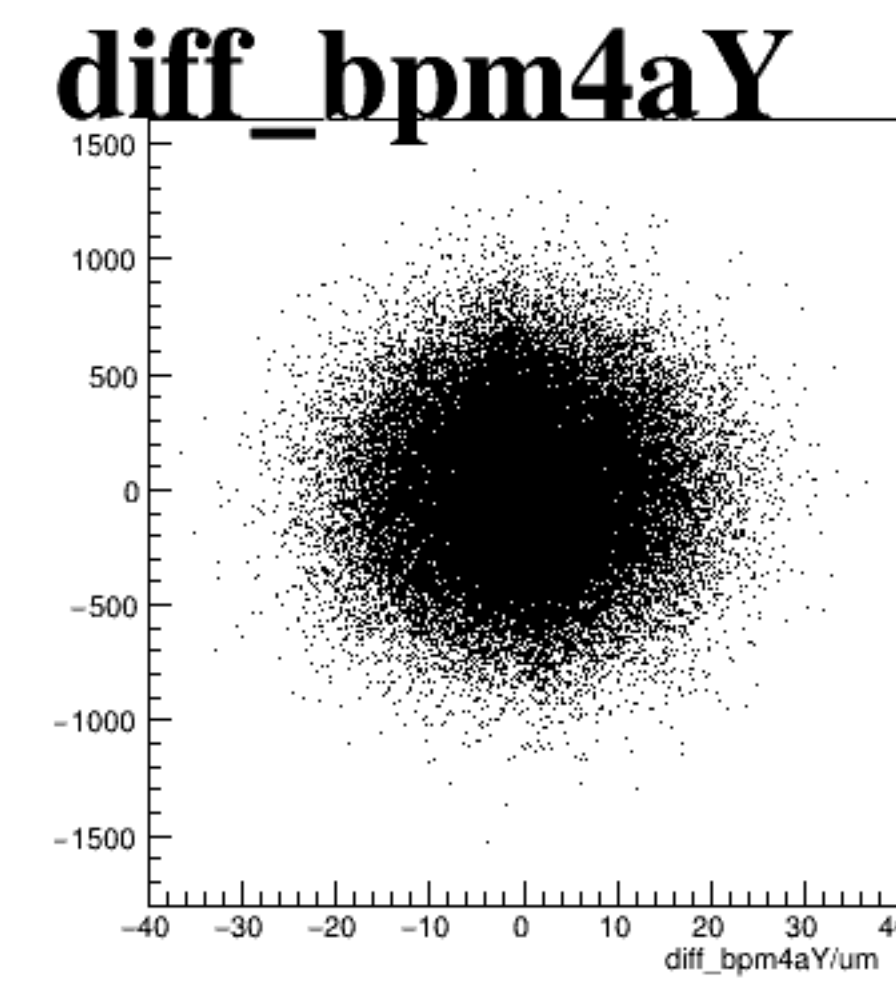
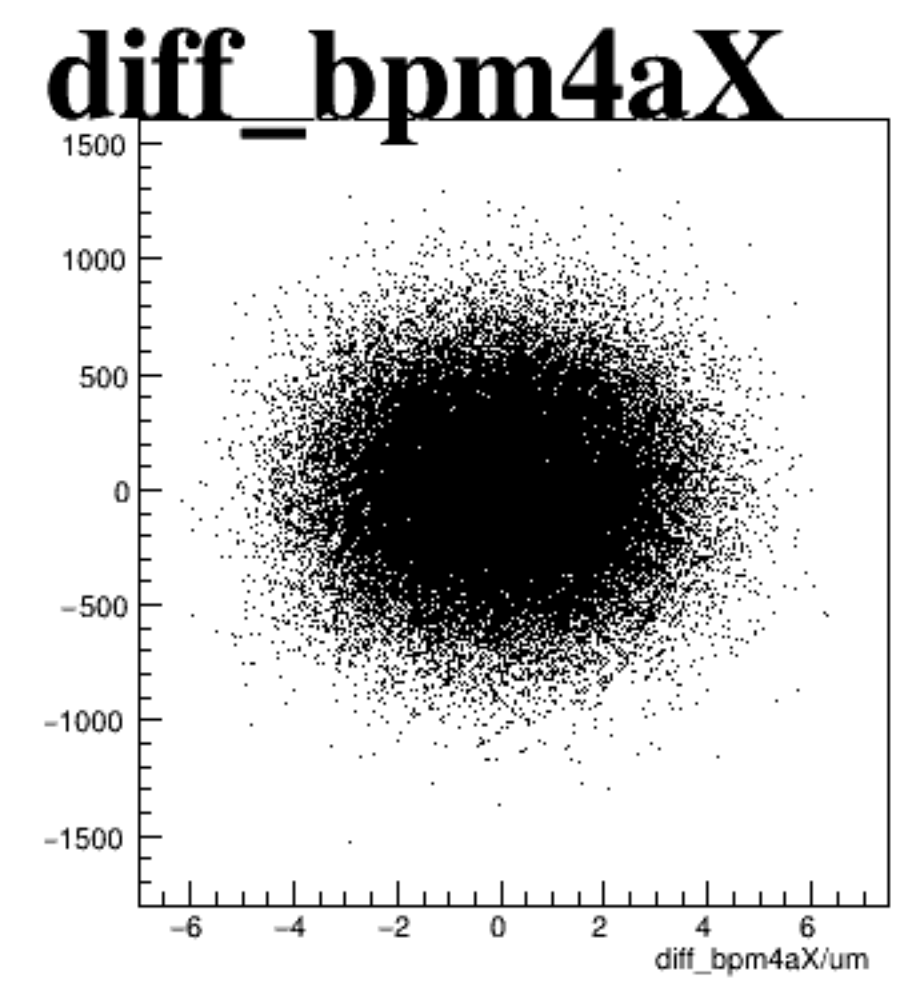
reg_asym_sam1



reg_asym_sam3



reg_asym_sam5



reg_asym_sam7

