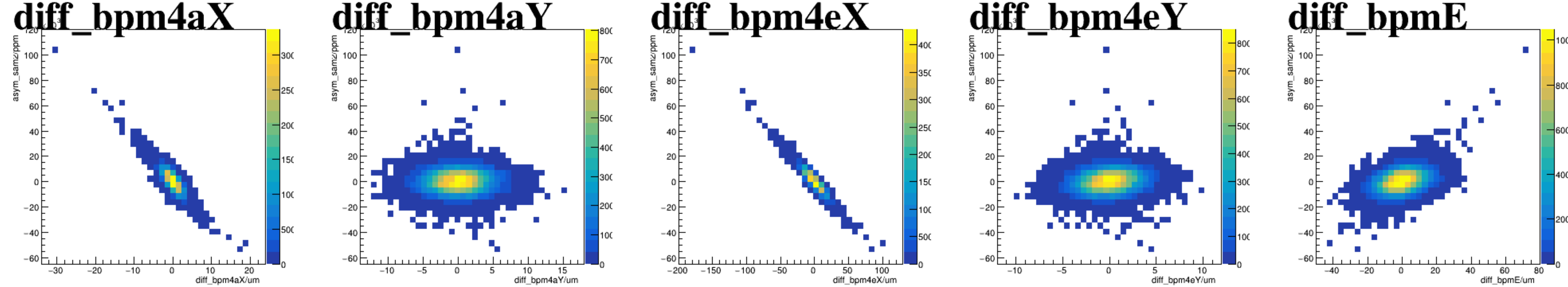
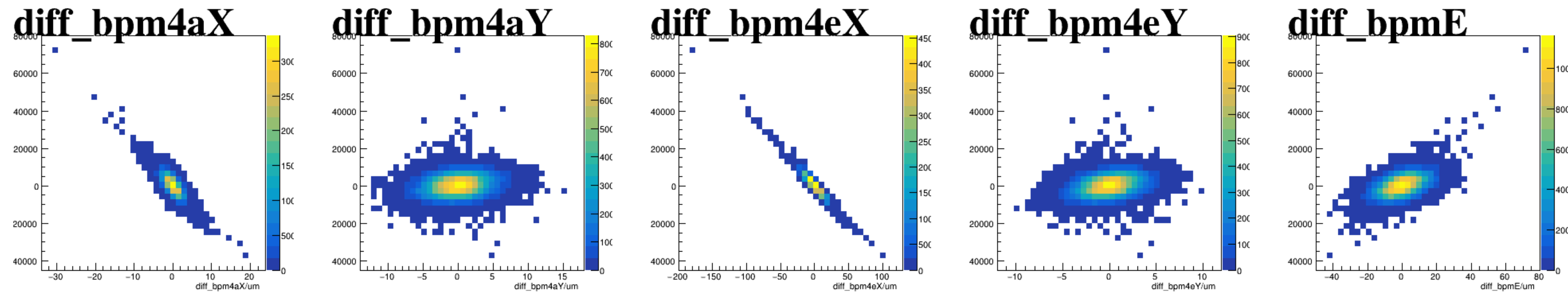


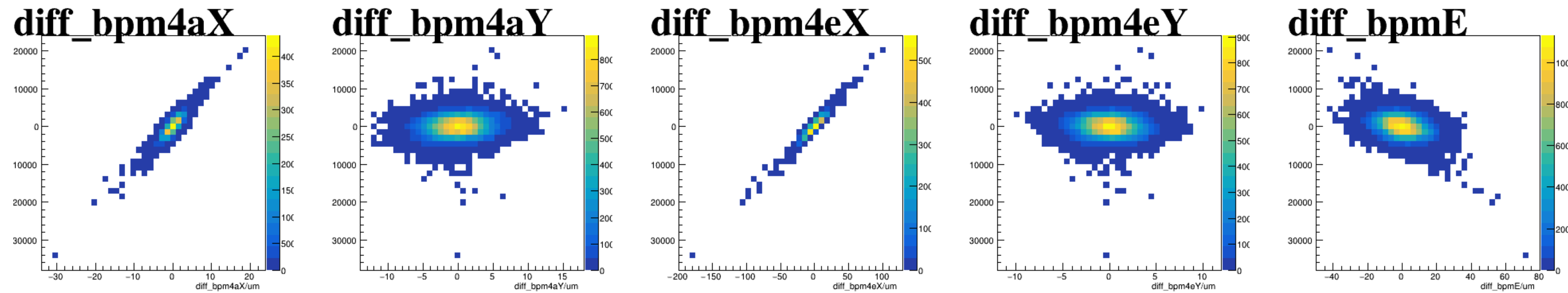
asym_sam2



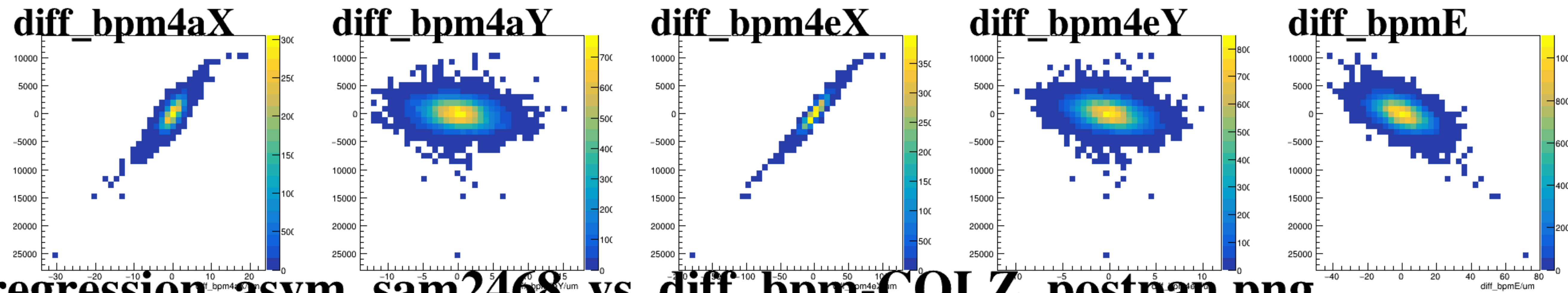
asym_sam4



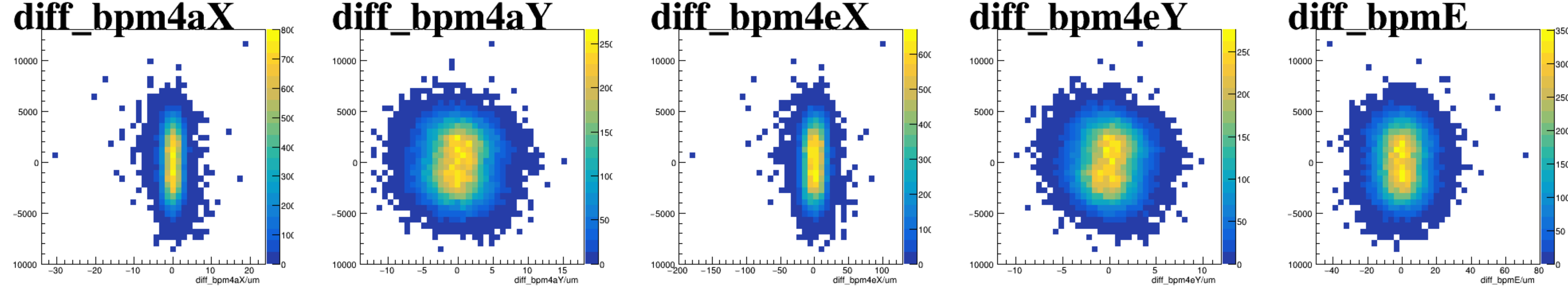
asym_sam6



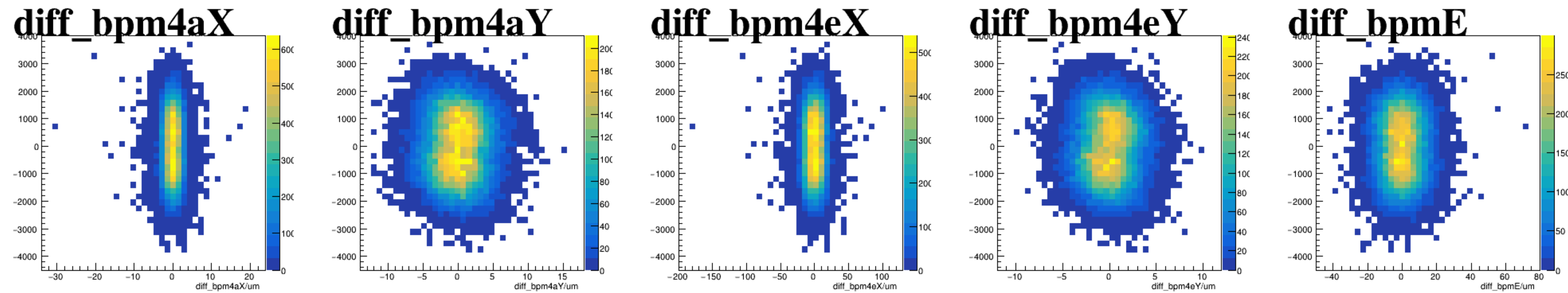
asym_sam8



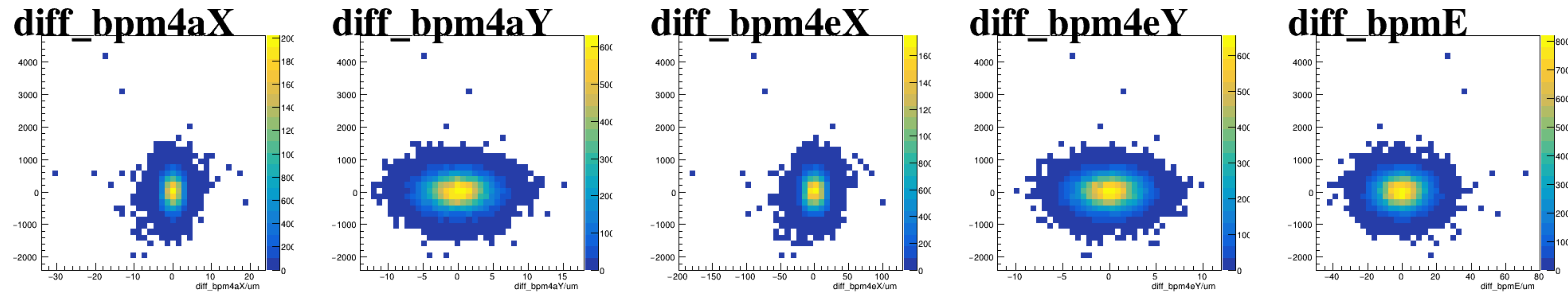
reg_asym_sam2



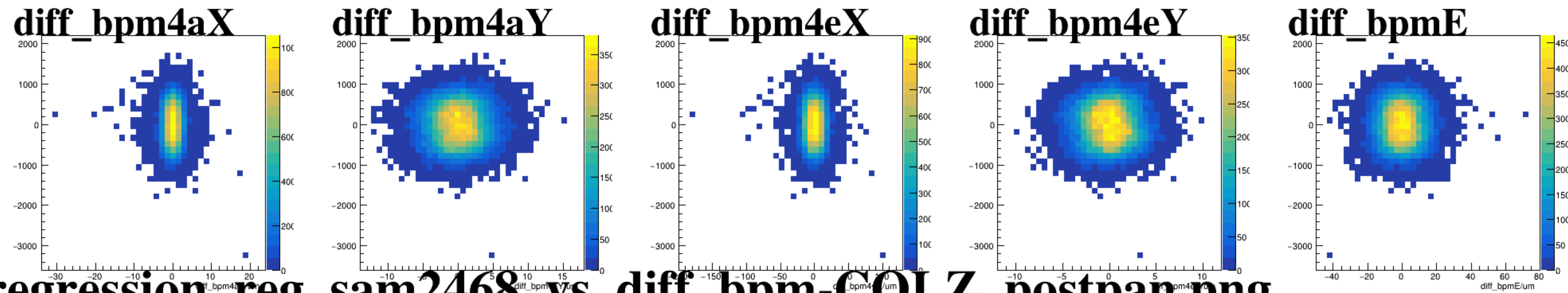
reg_asym_sam4



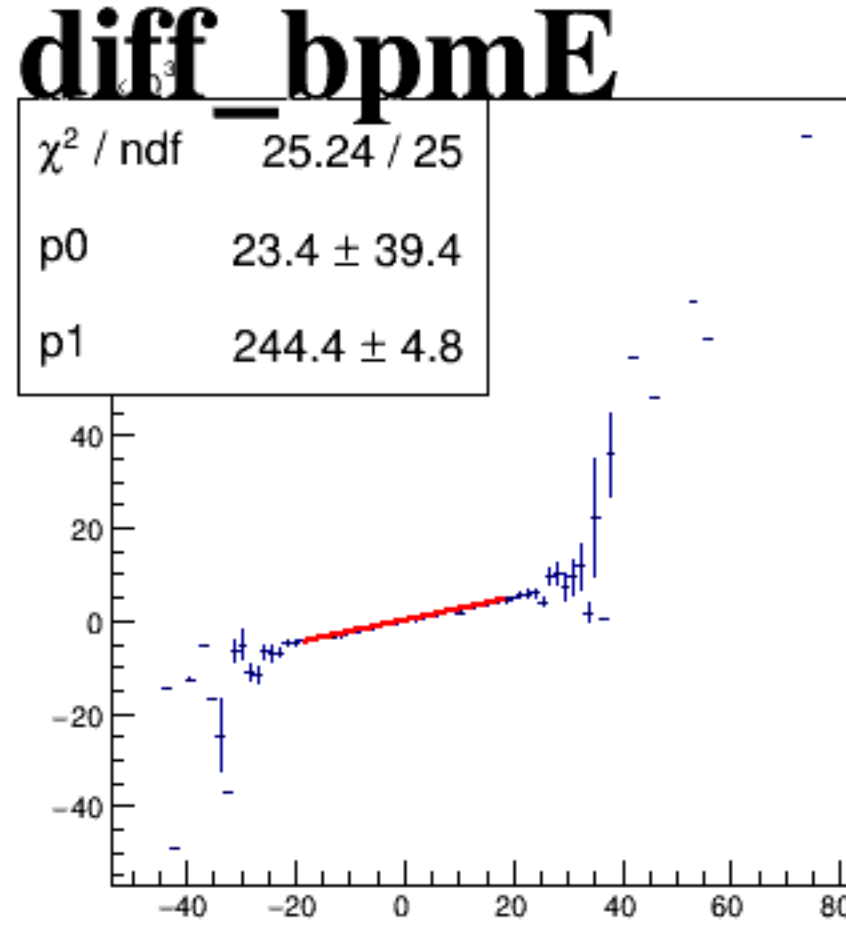
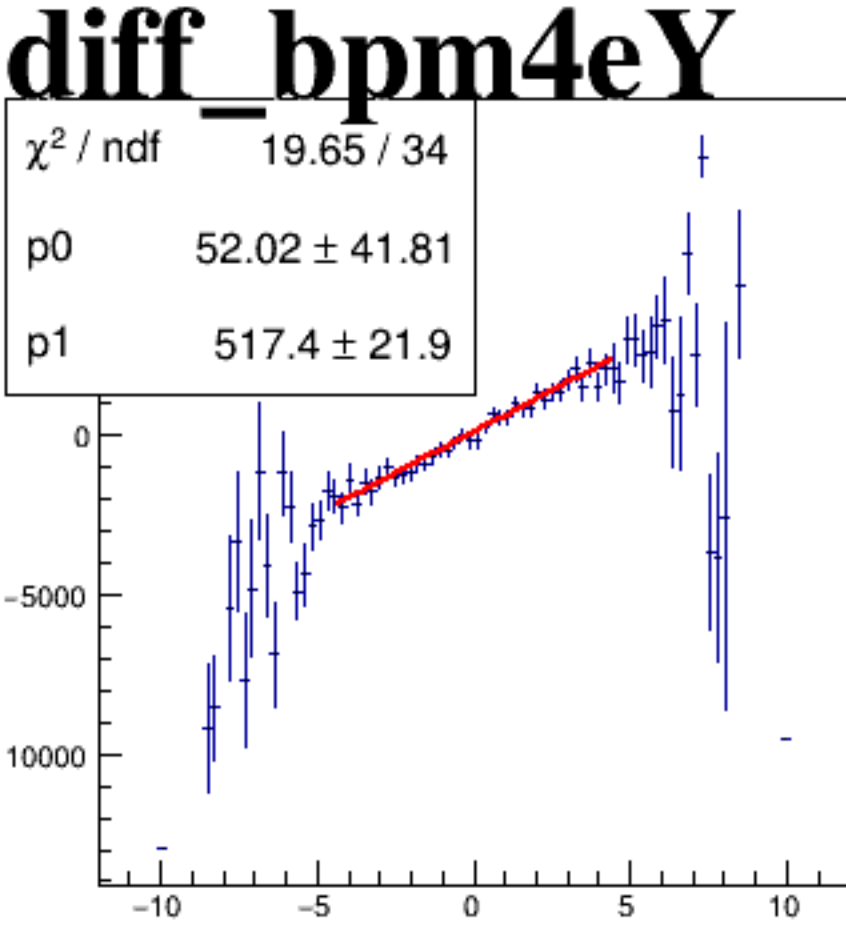
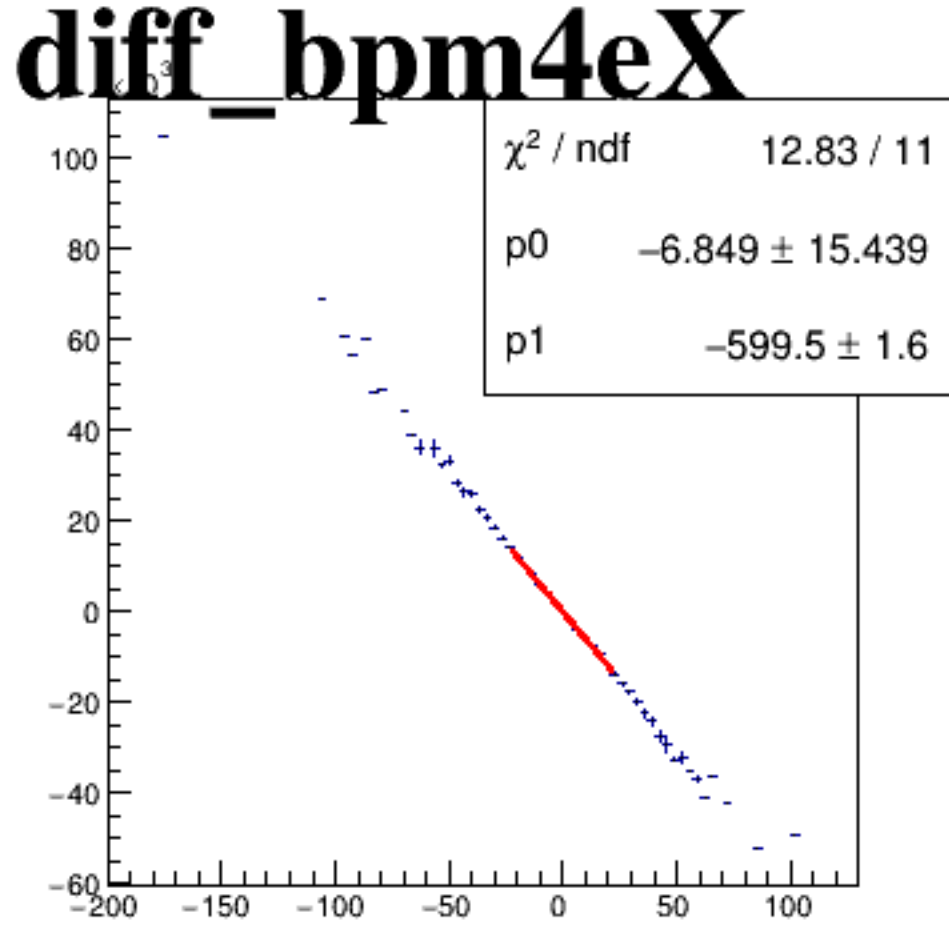
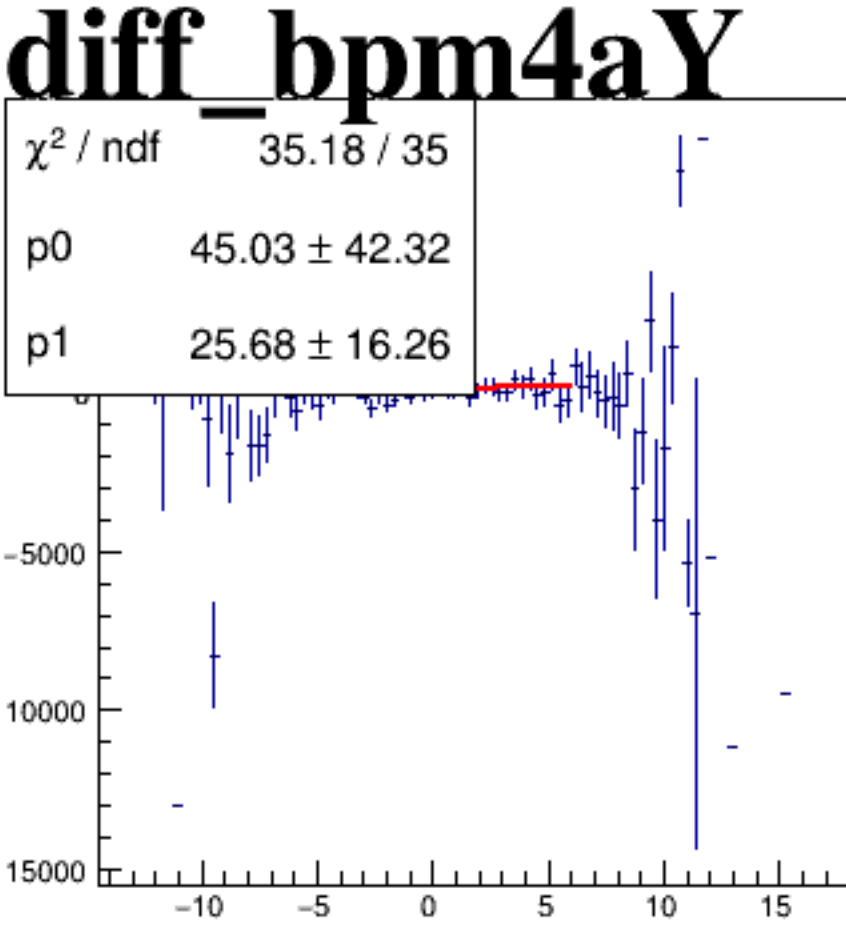
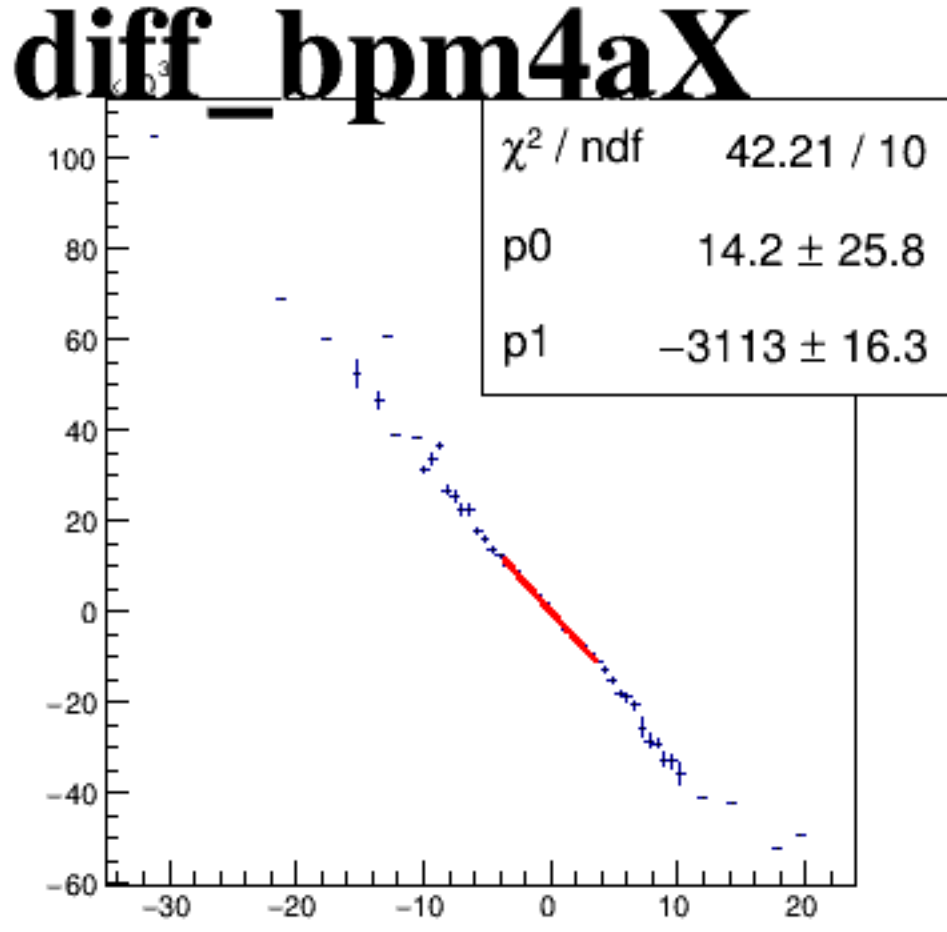
reg_asym_sam6



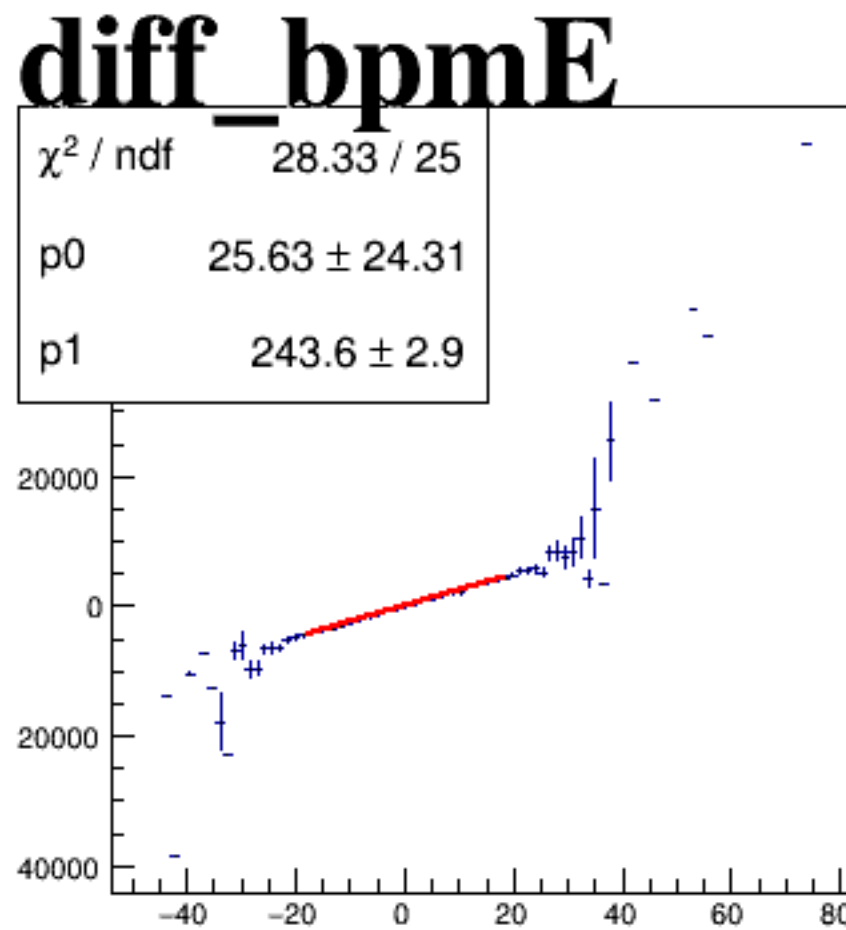
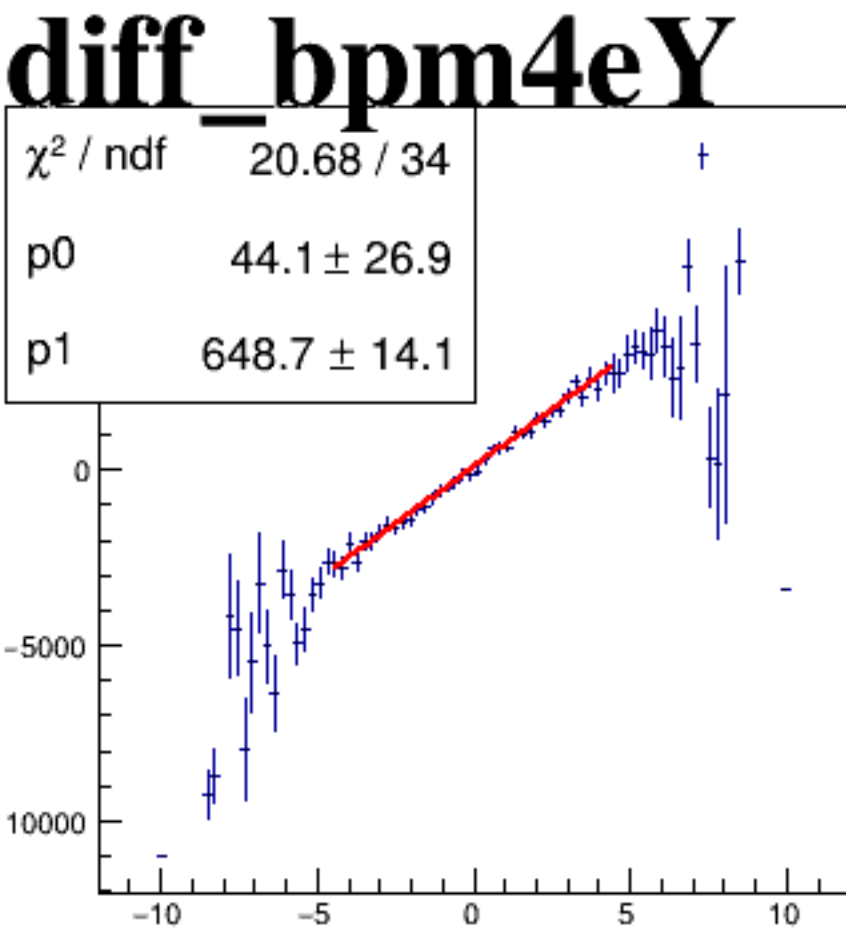
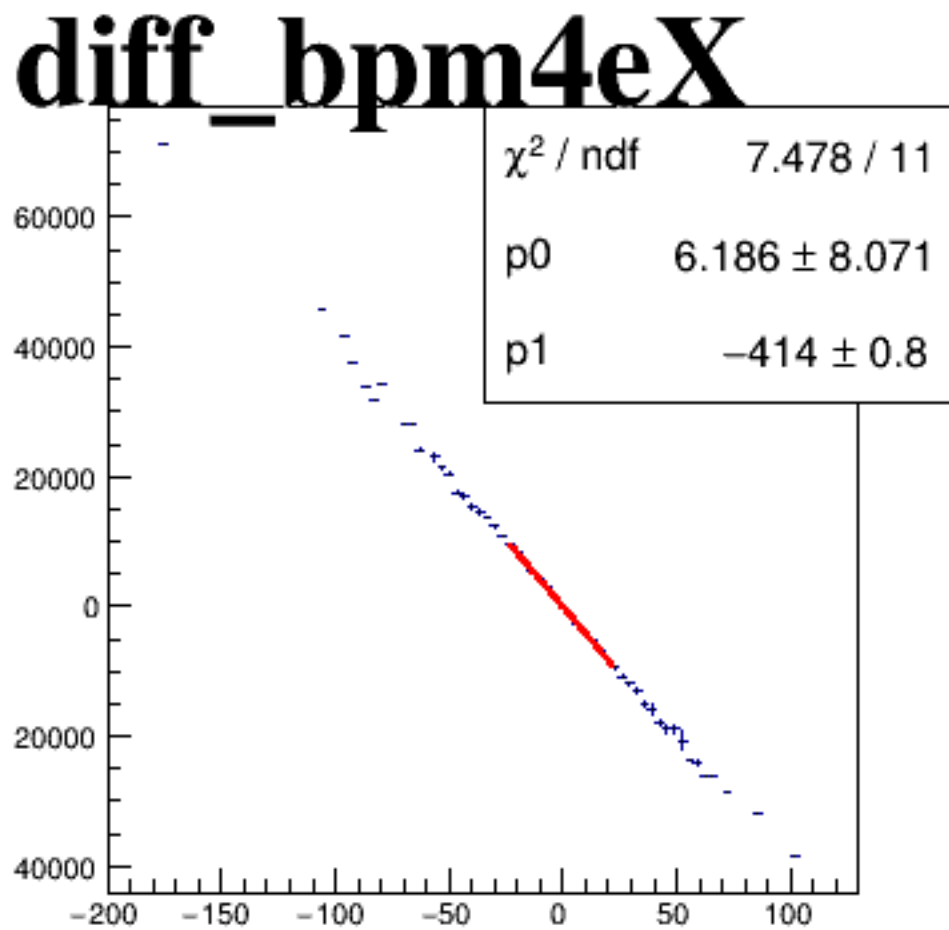
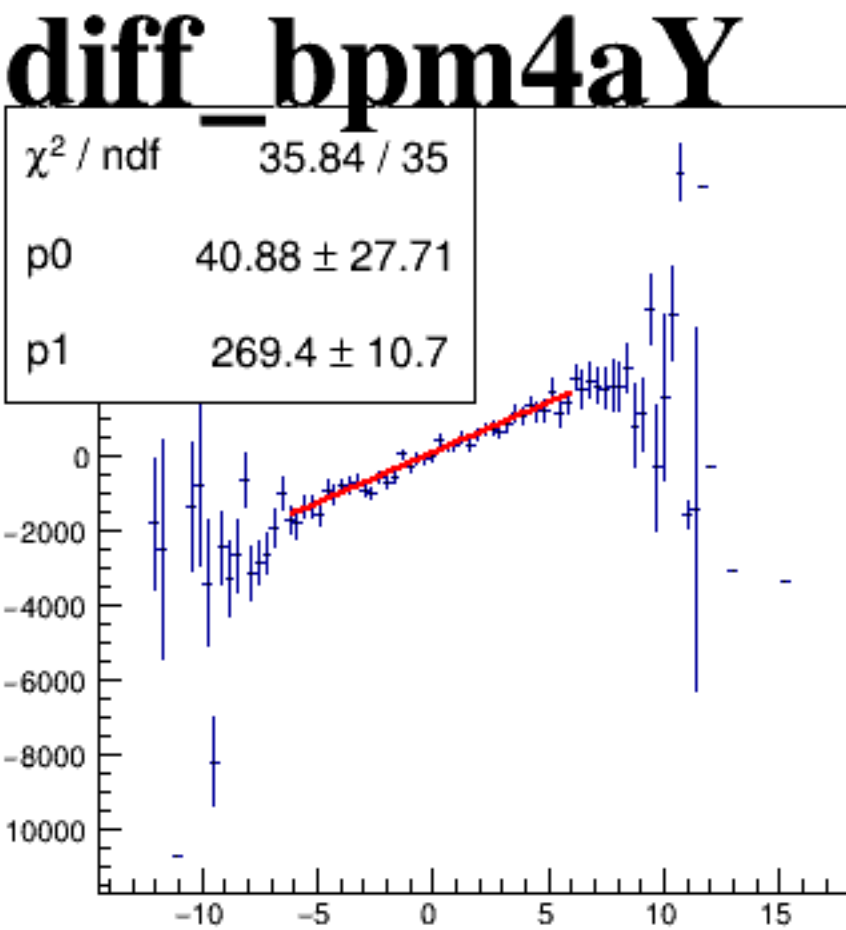
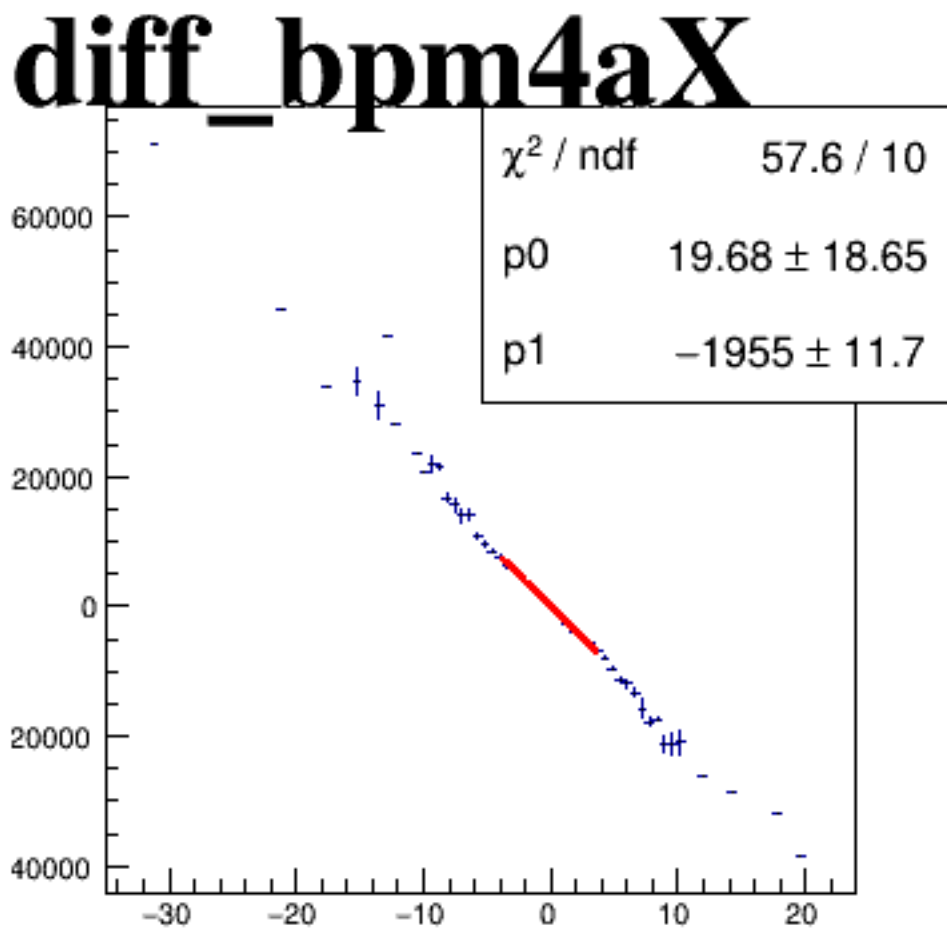
reg_asym_sam8



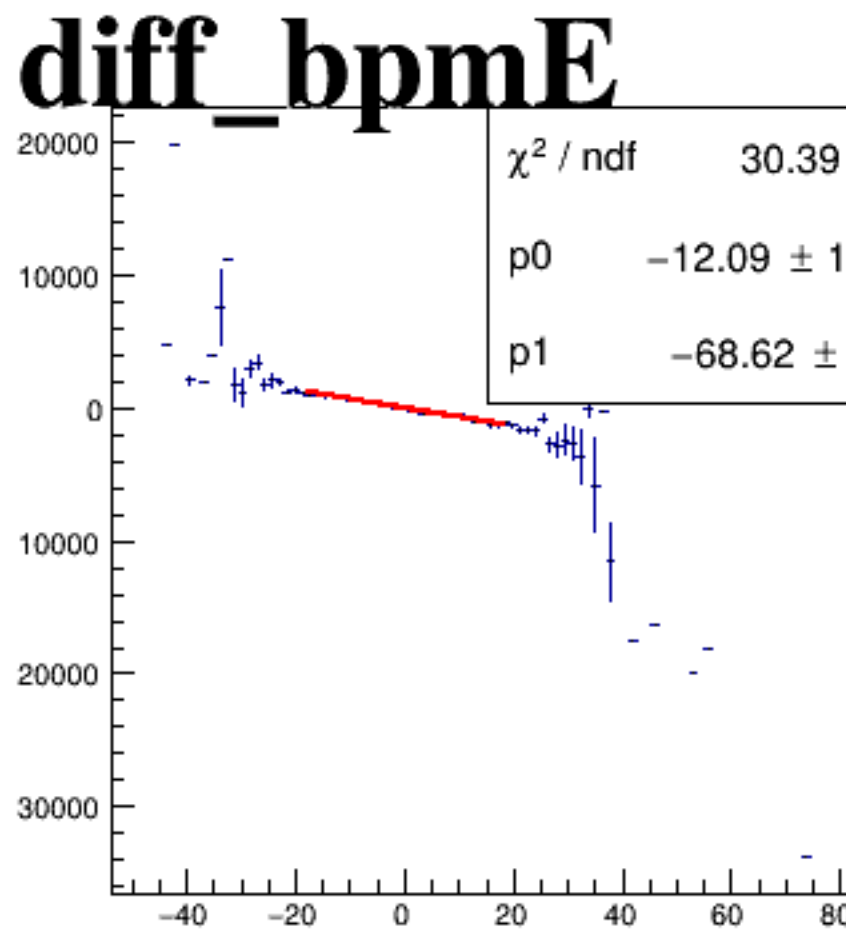
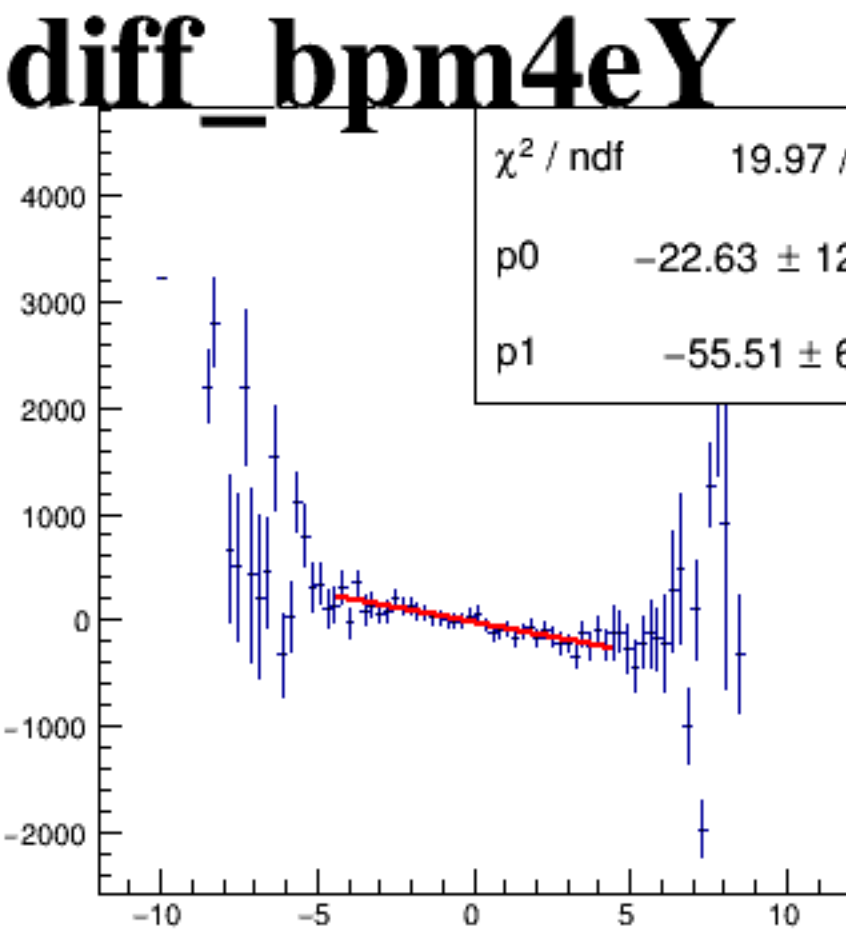
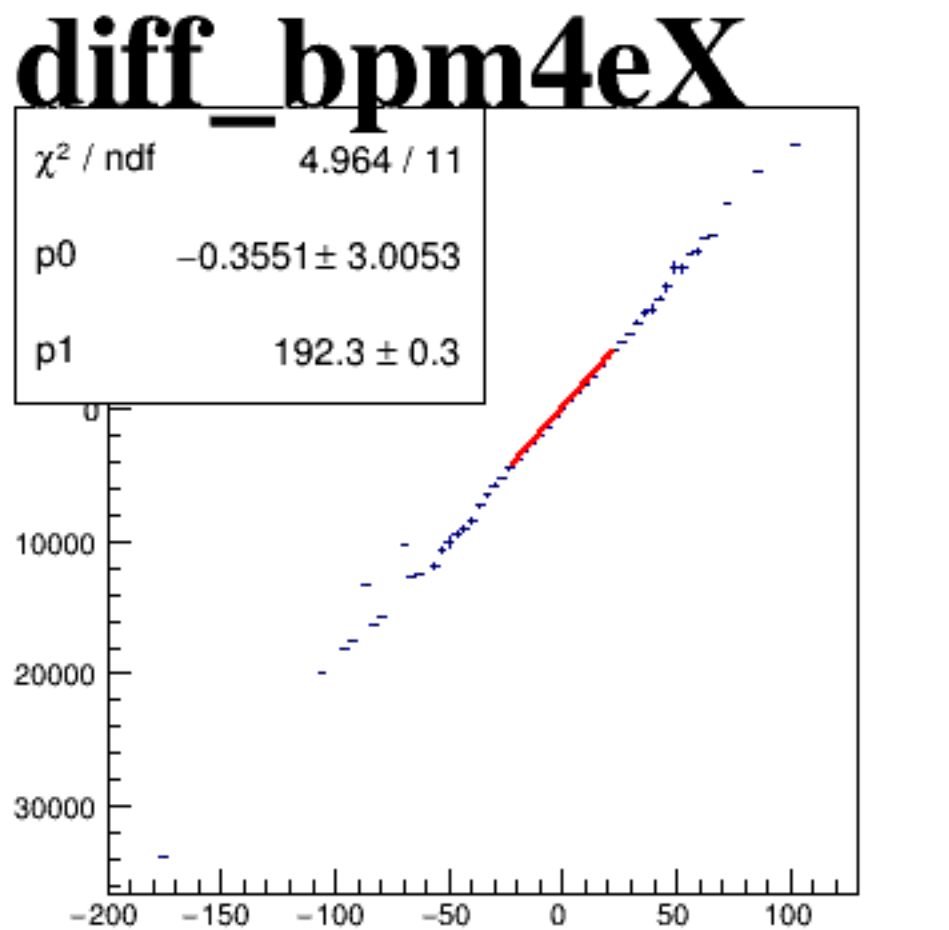
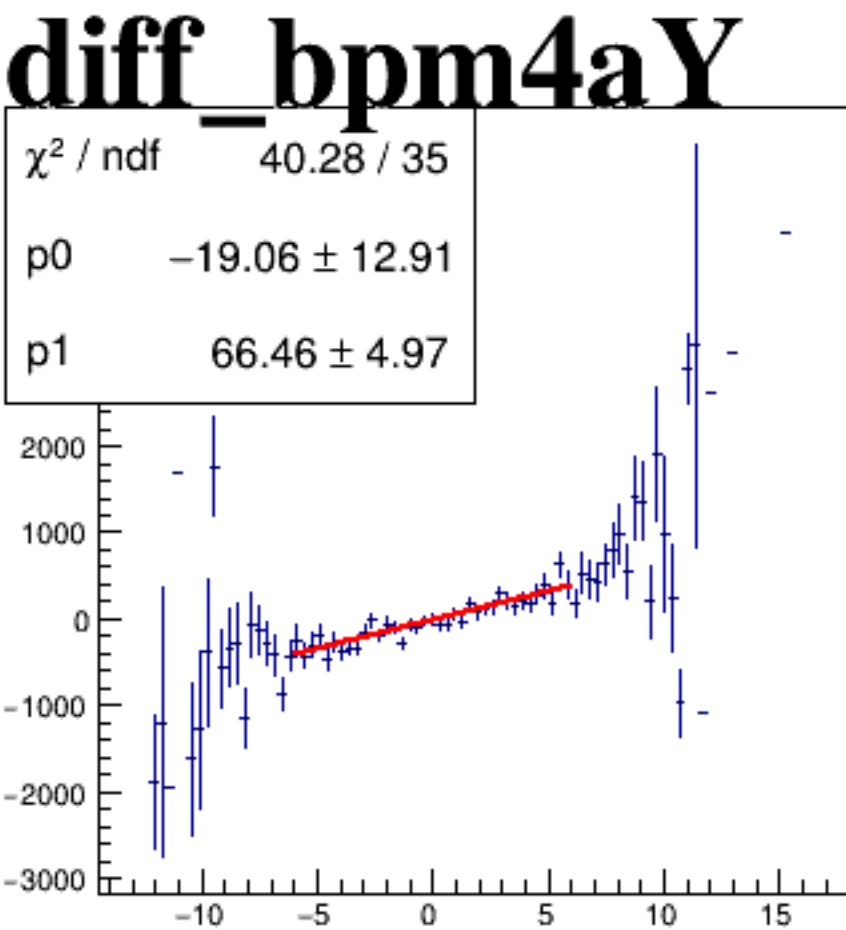
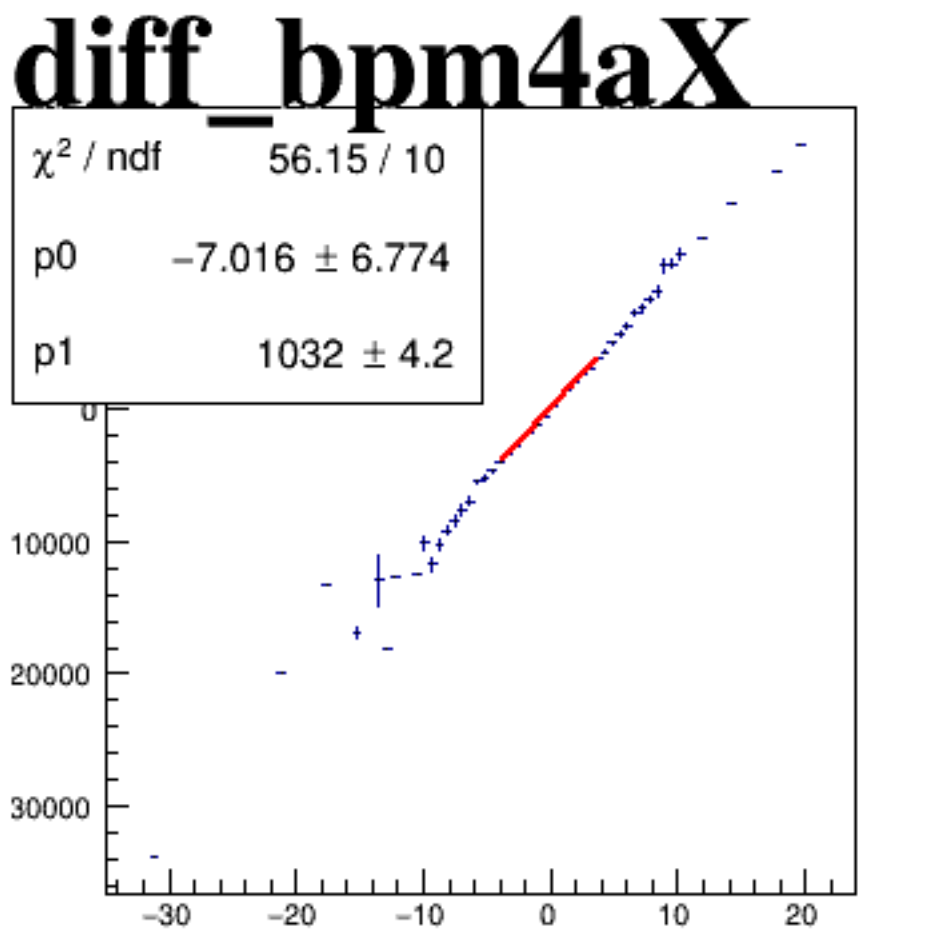
asym_sam2



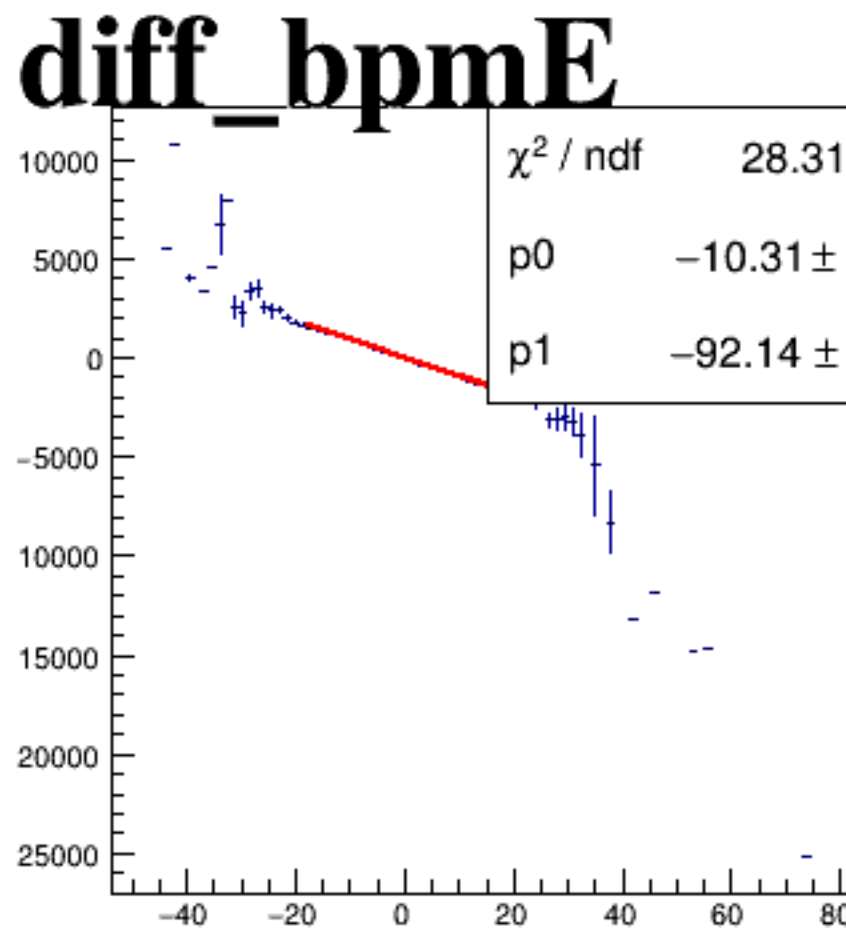
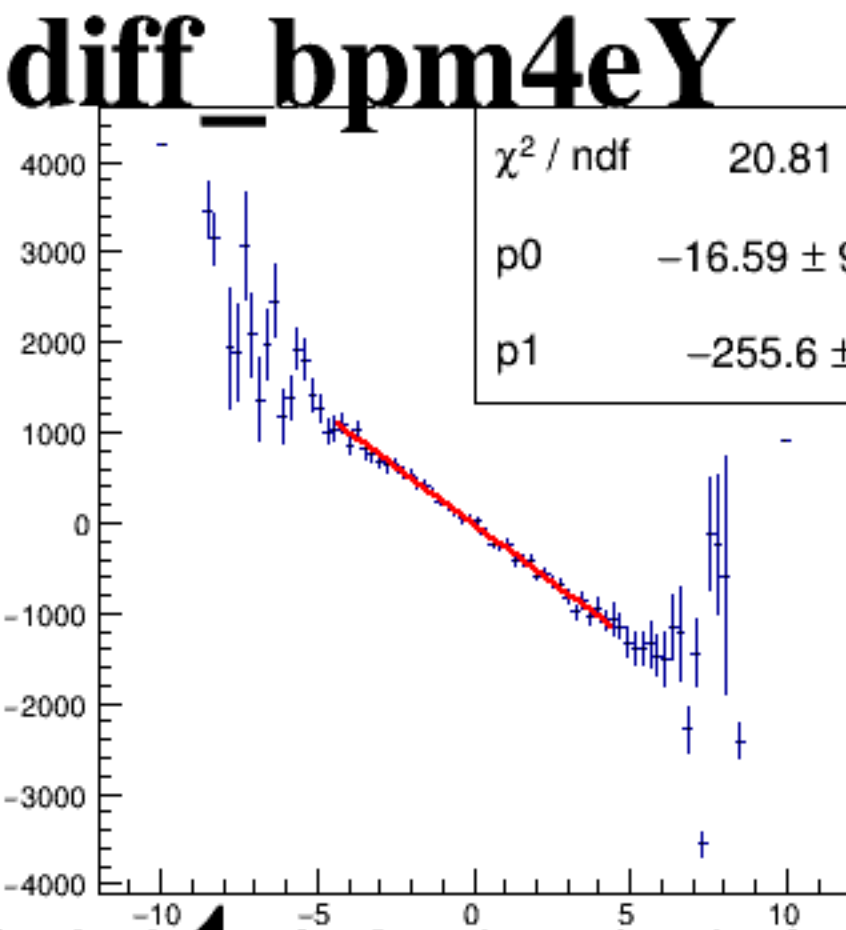
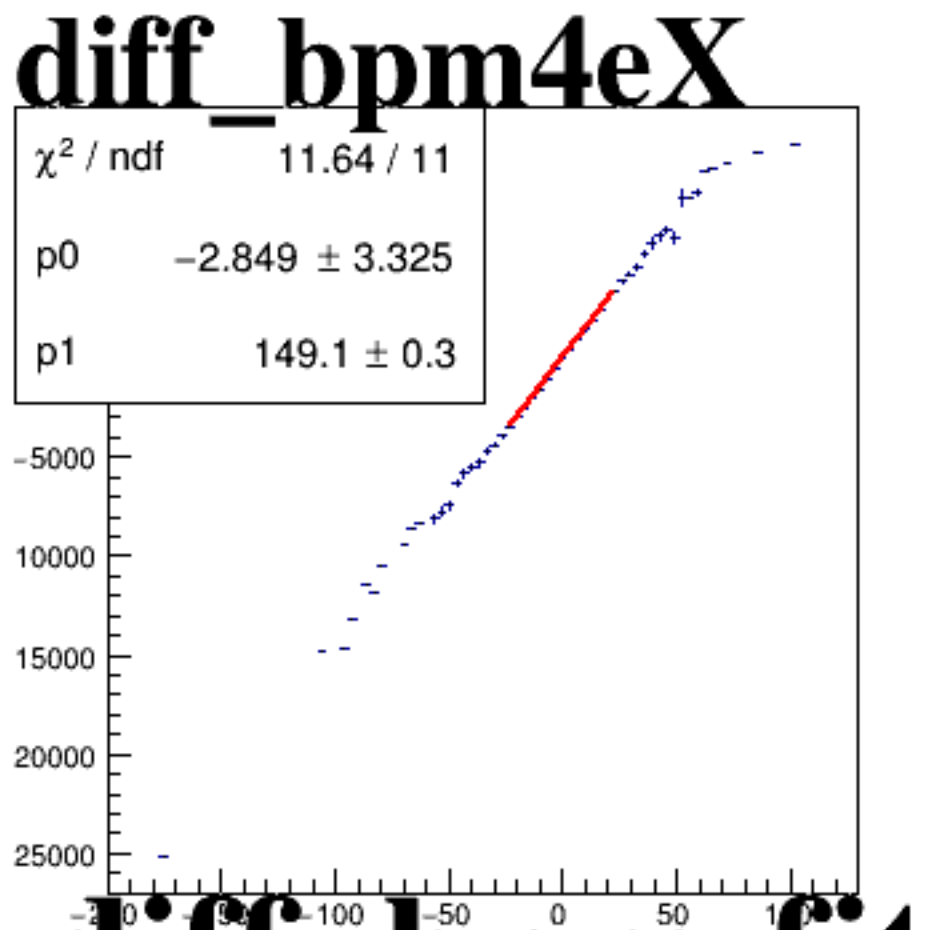
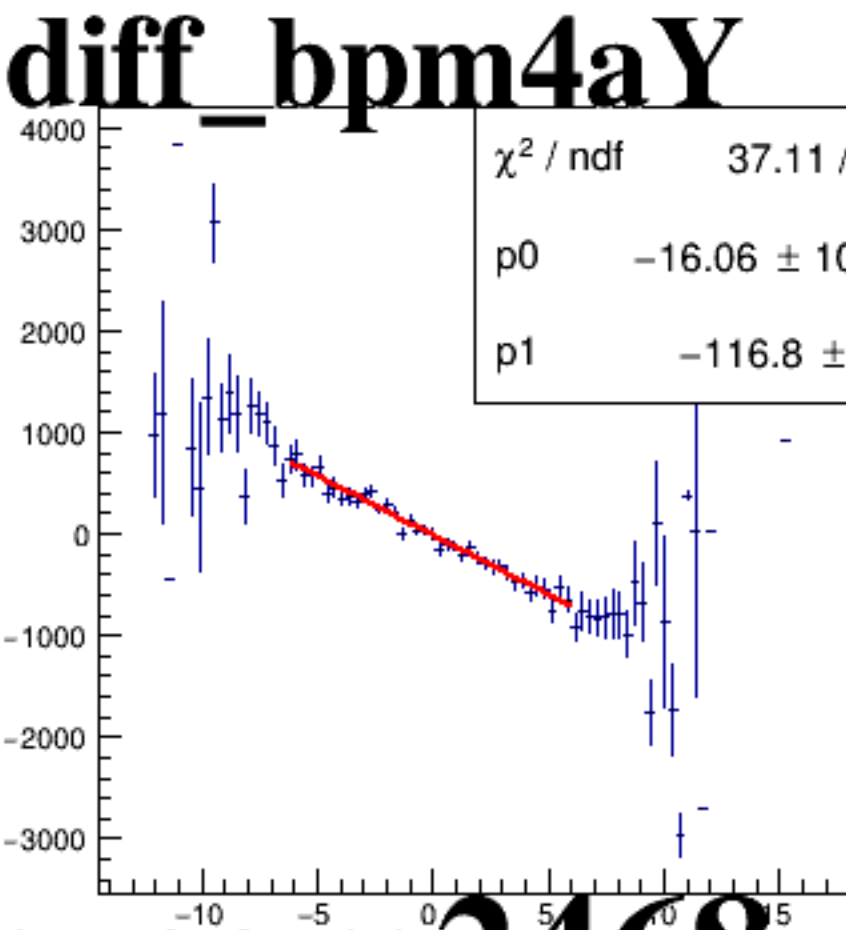
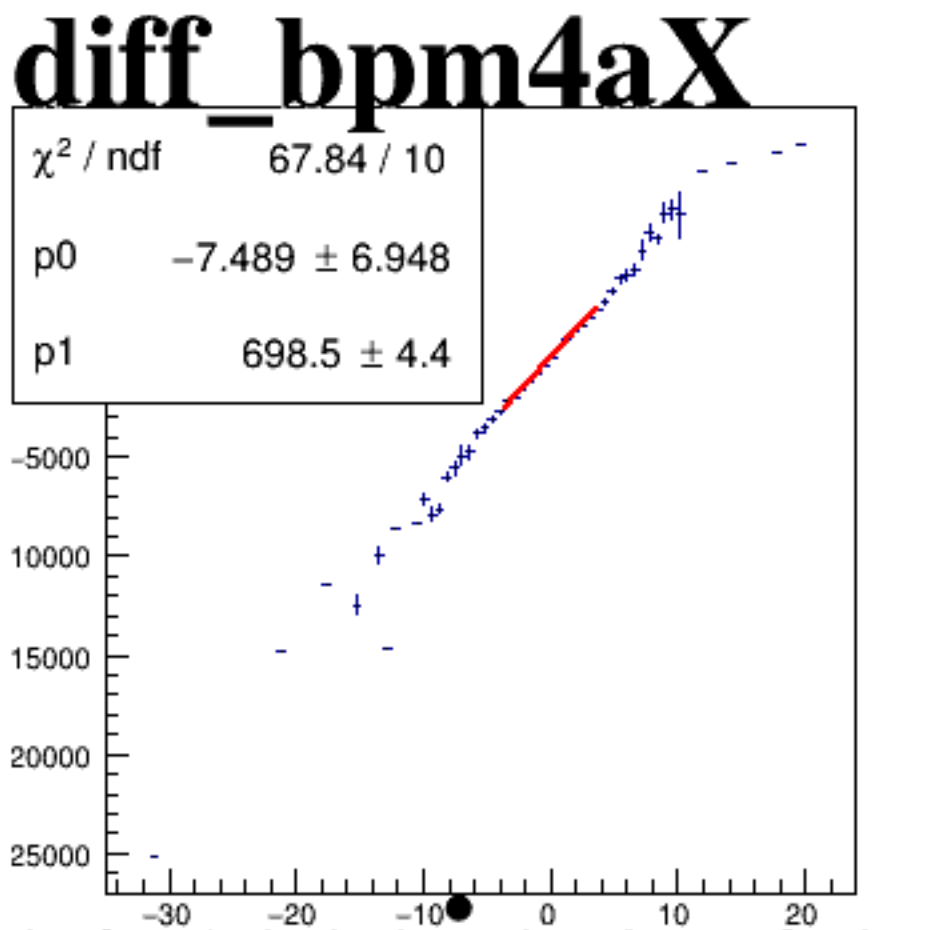
asym_sam4



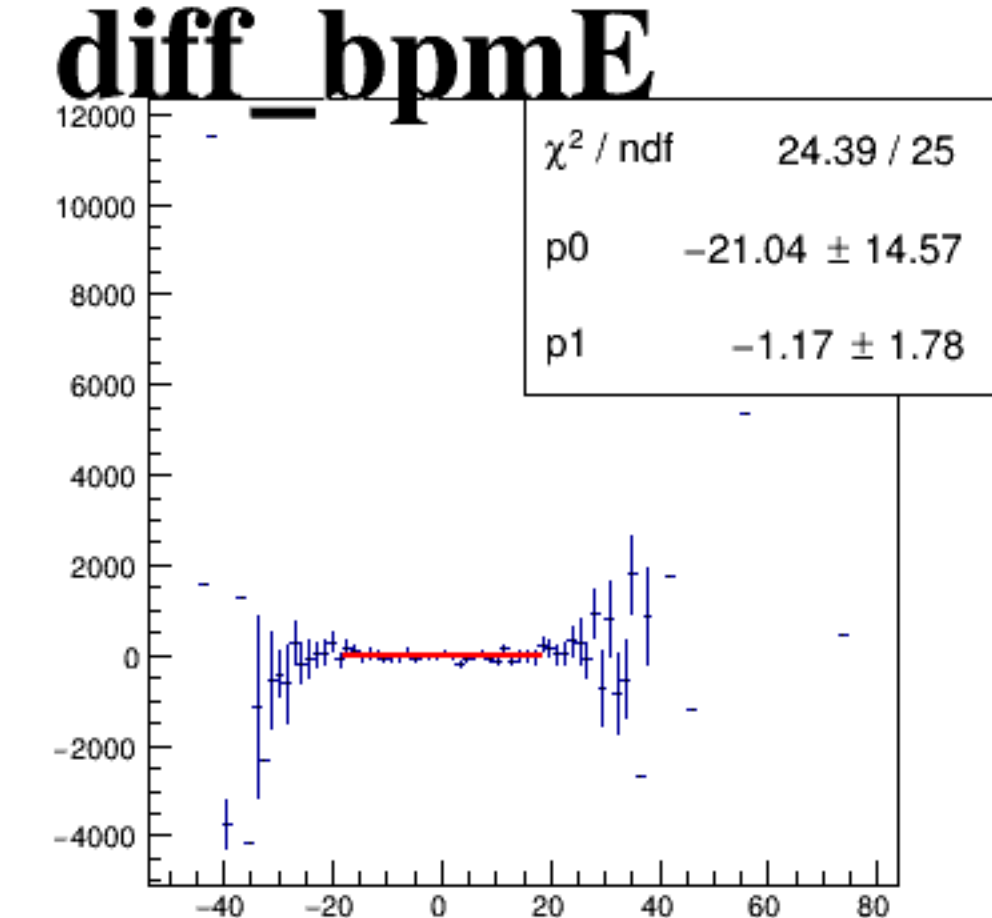
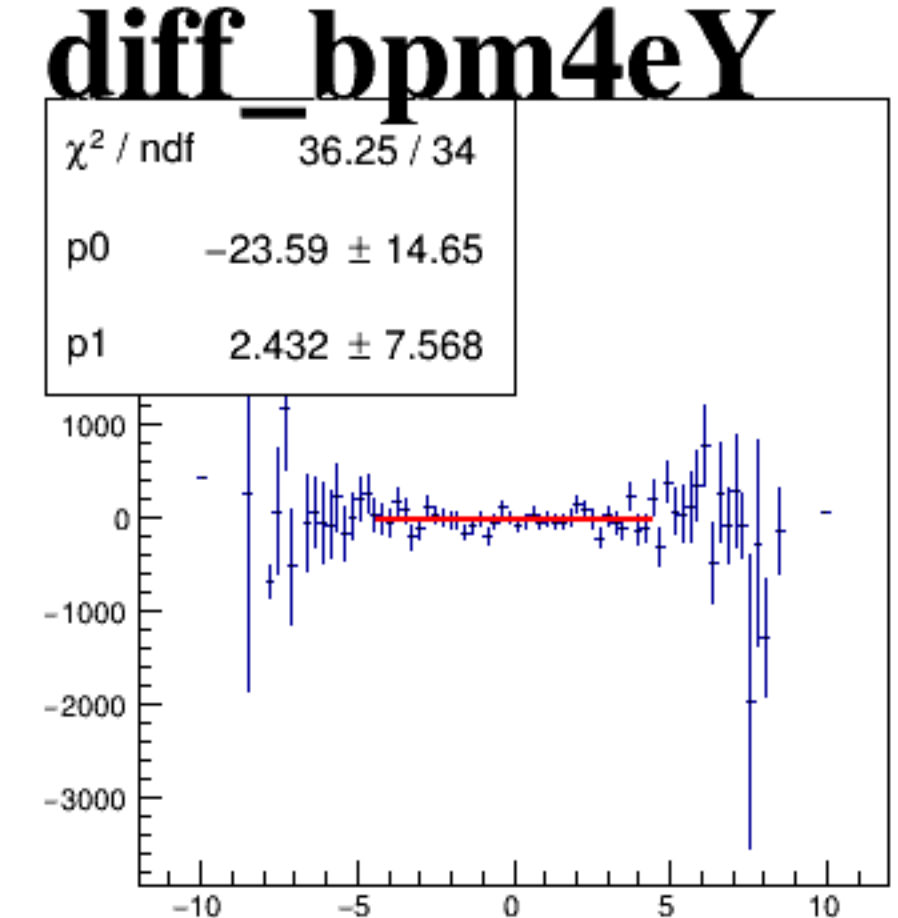
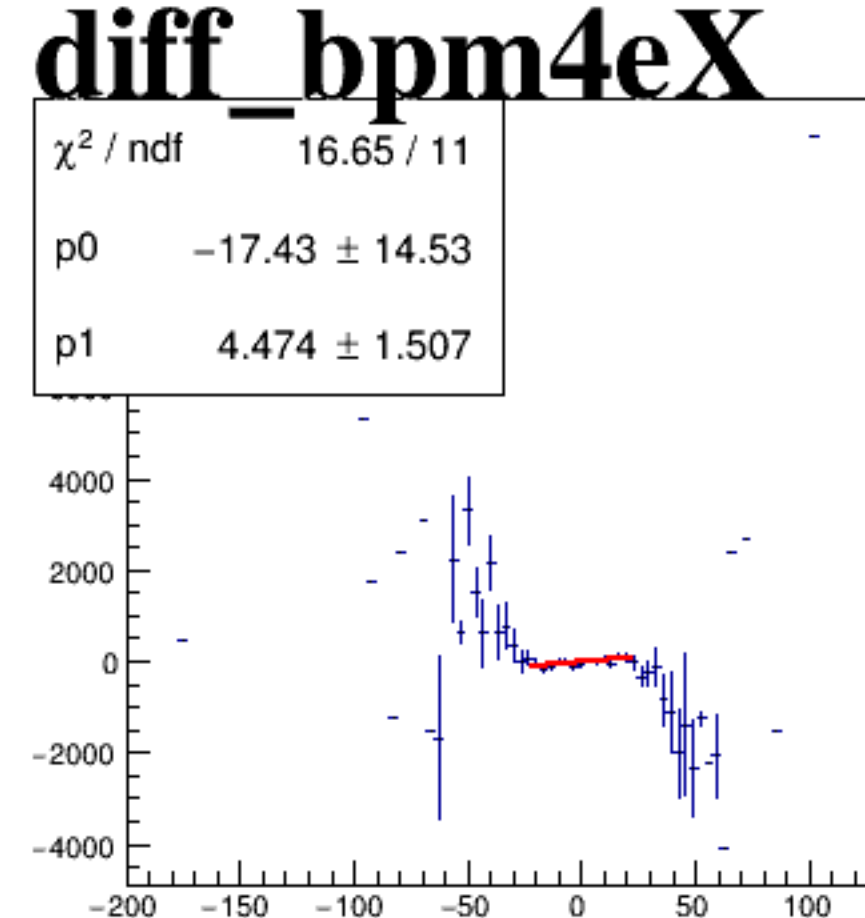
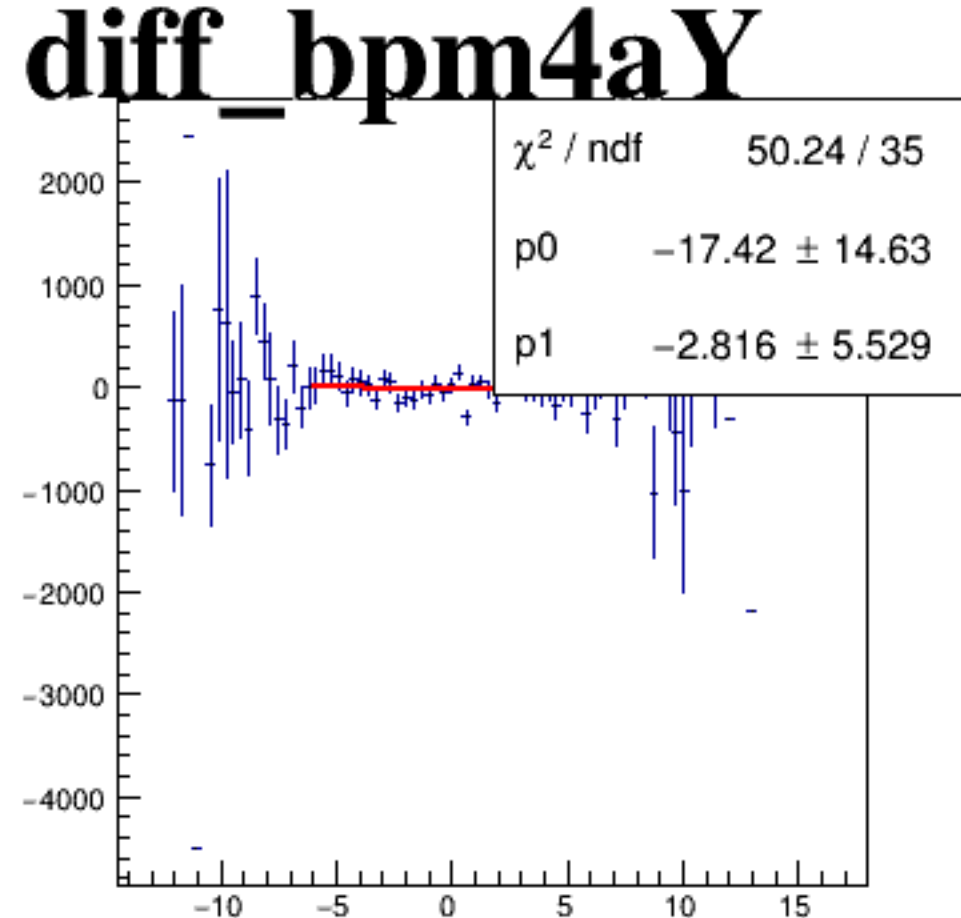
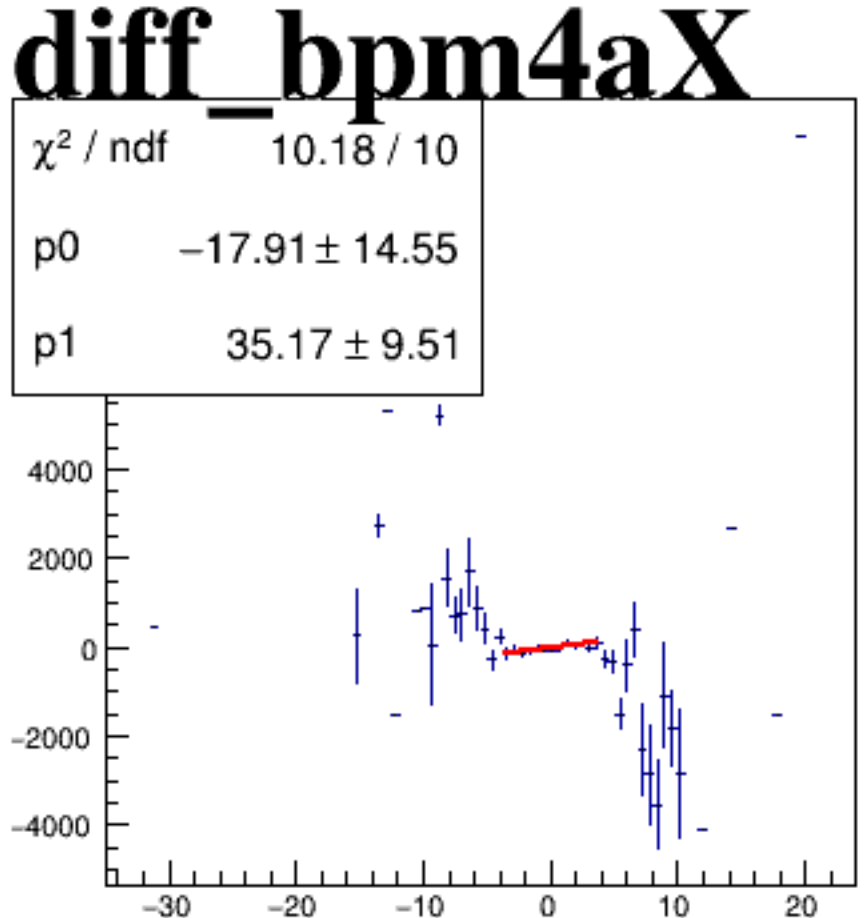
asym_sam6



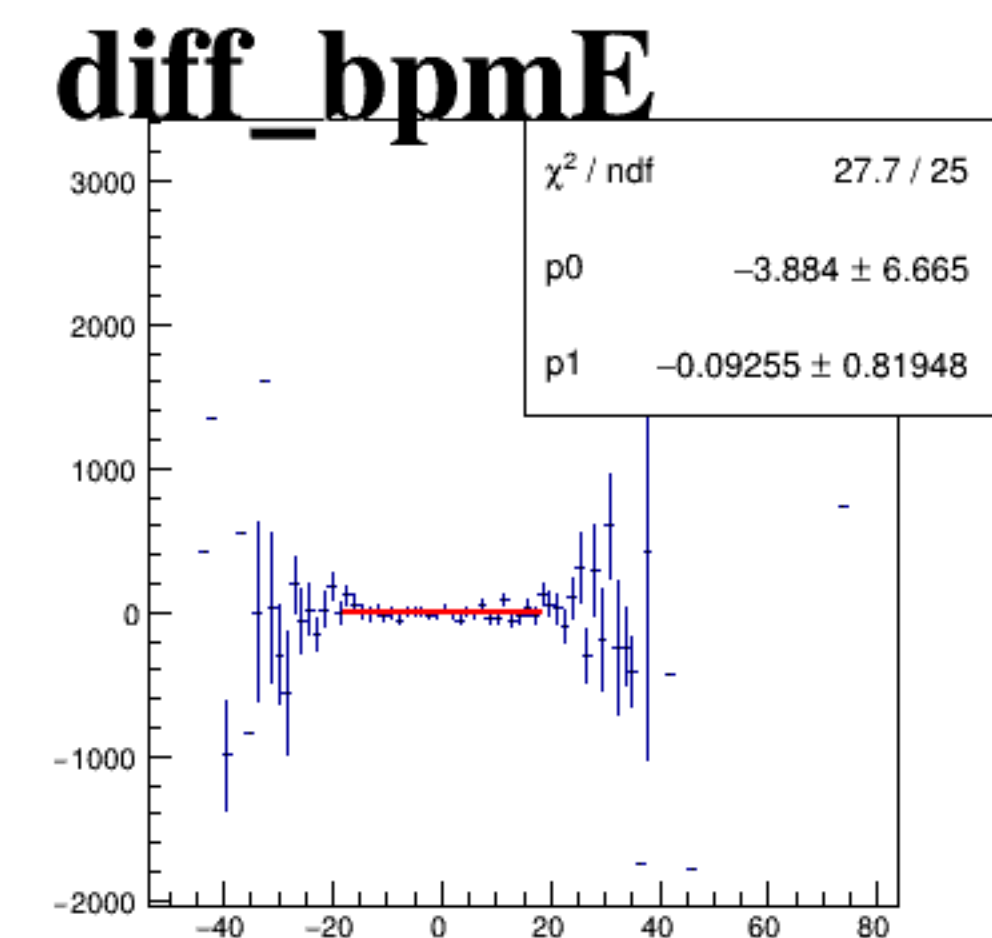
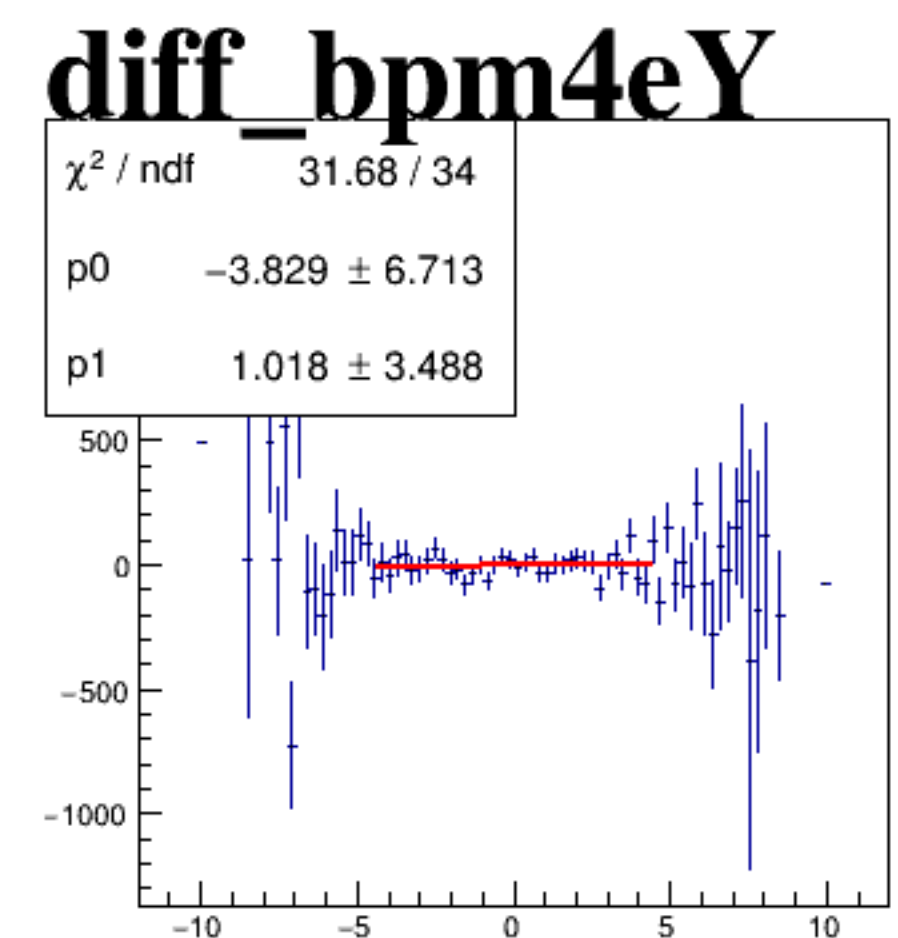
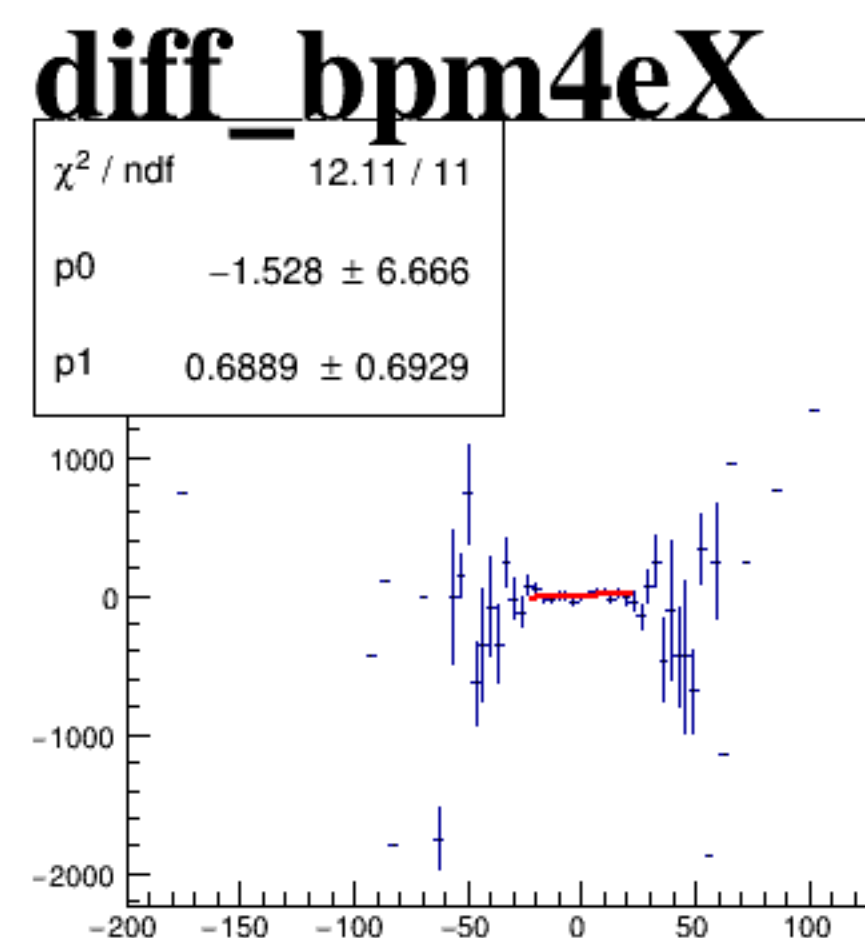
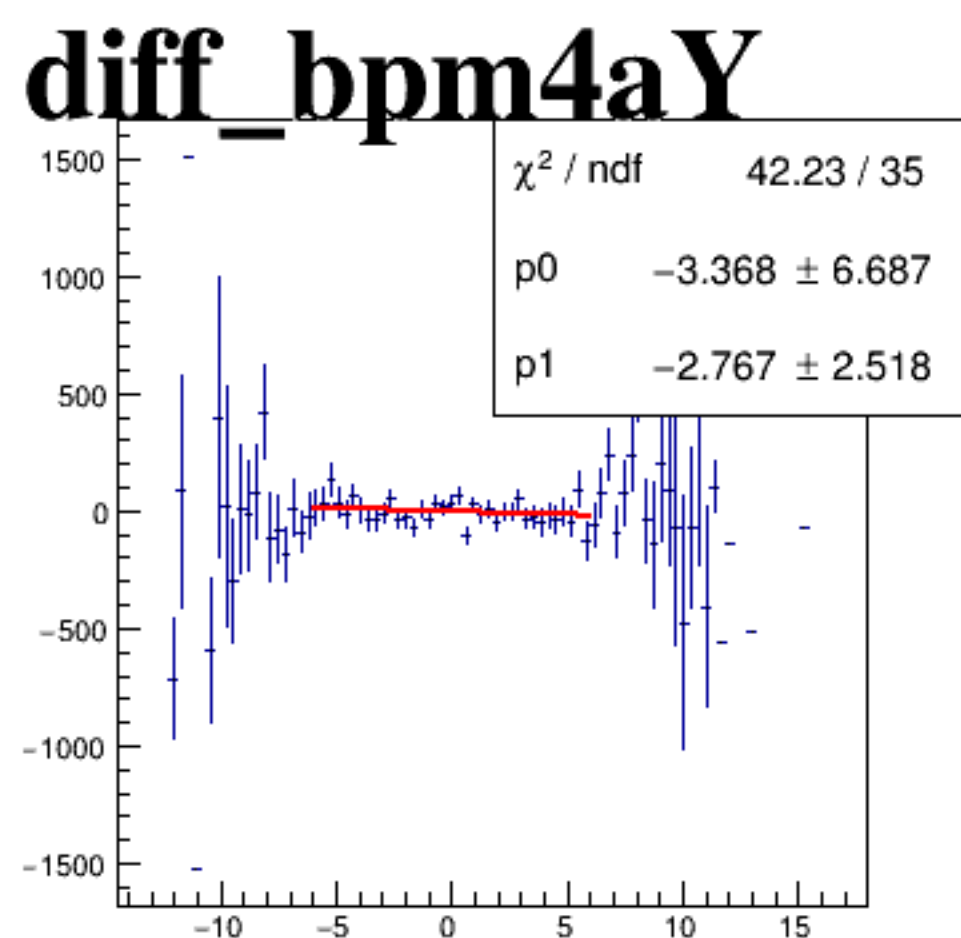
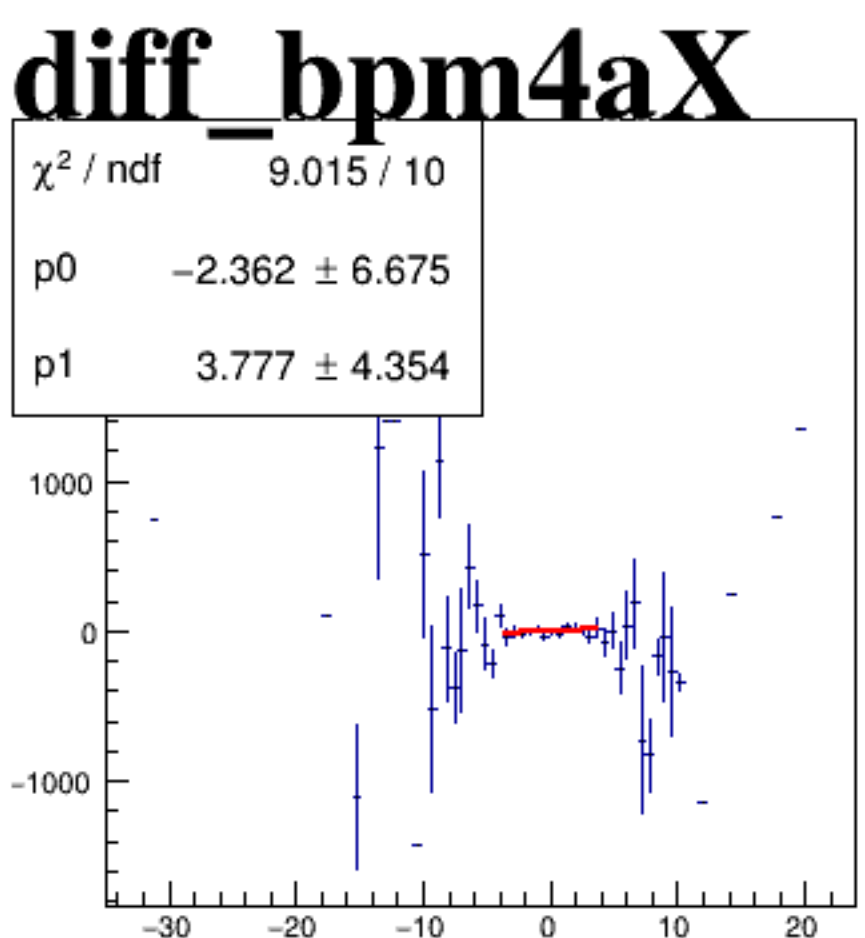
asym_sam8



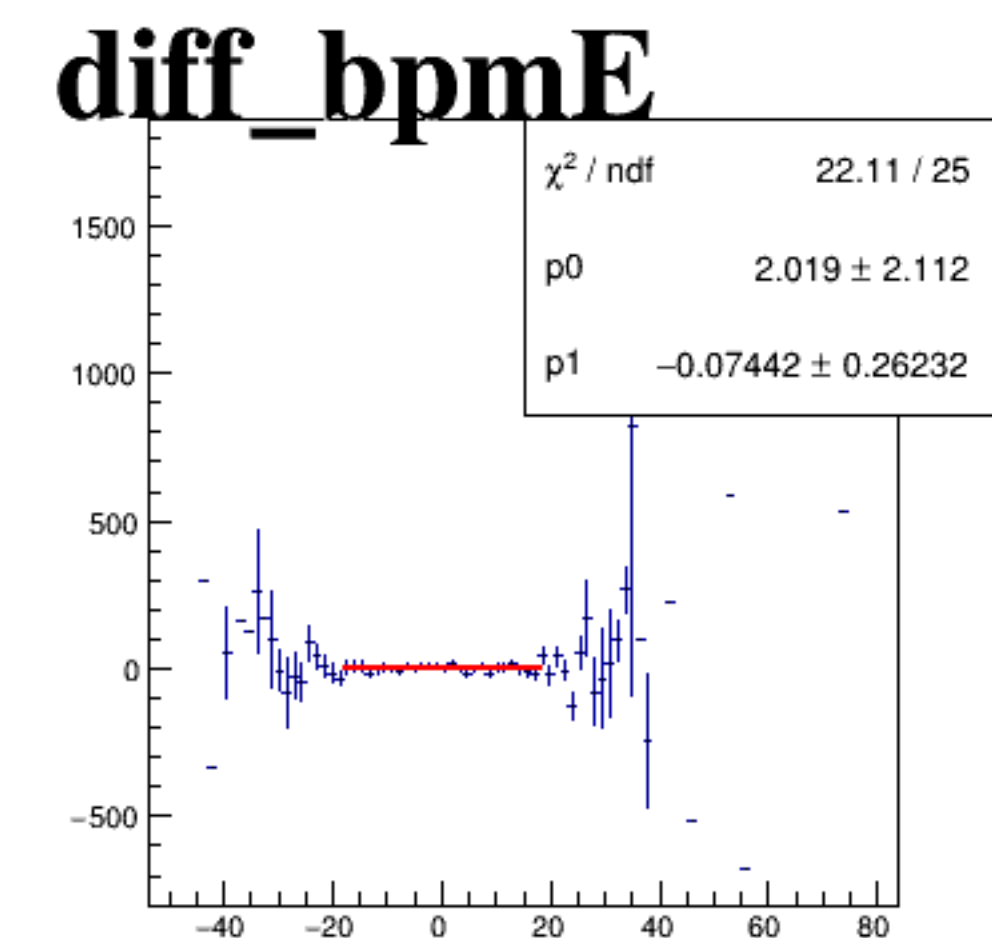
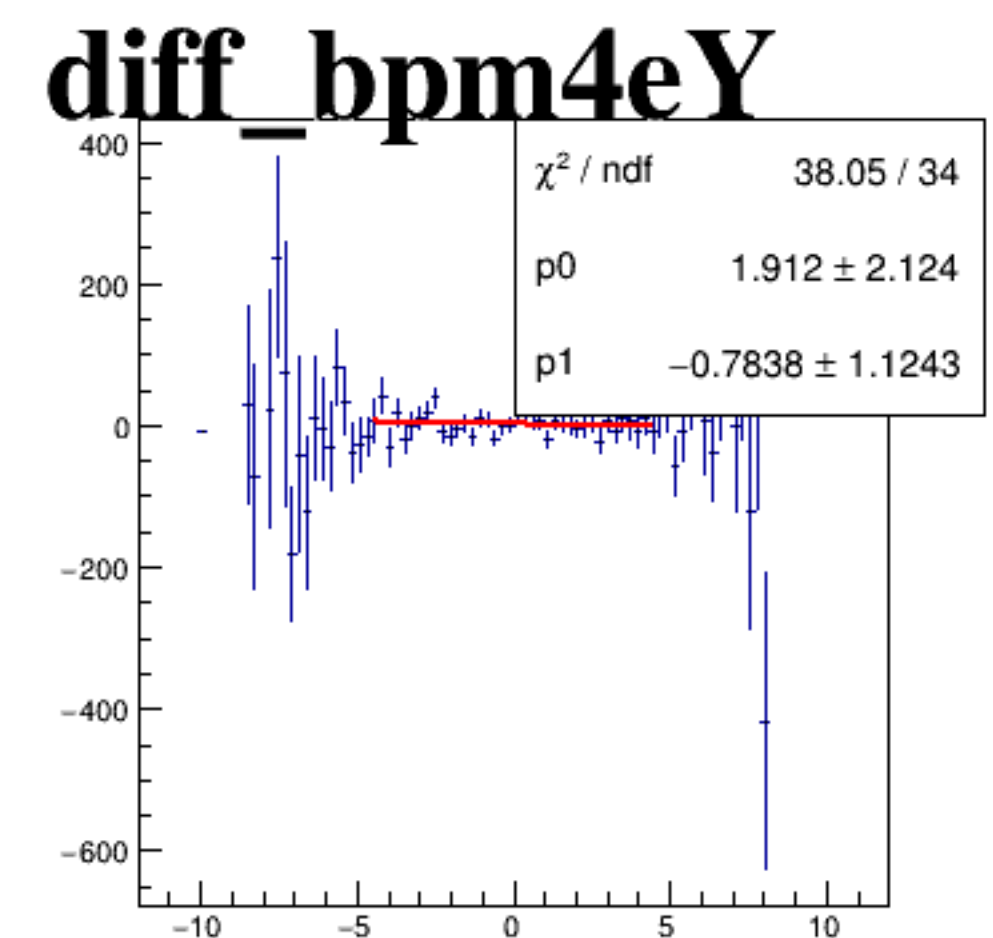
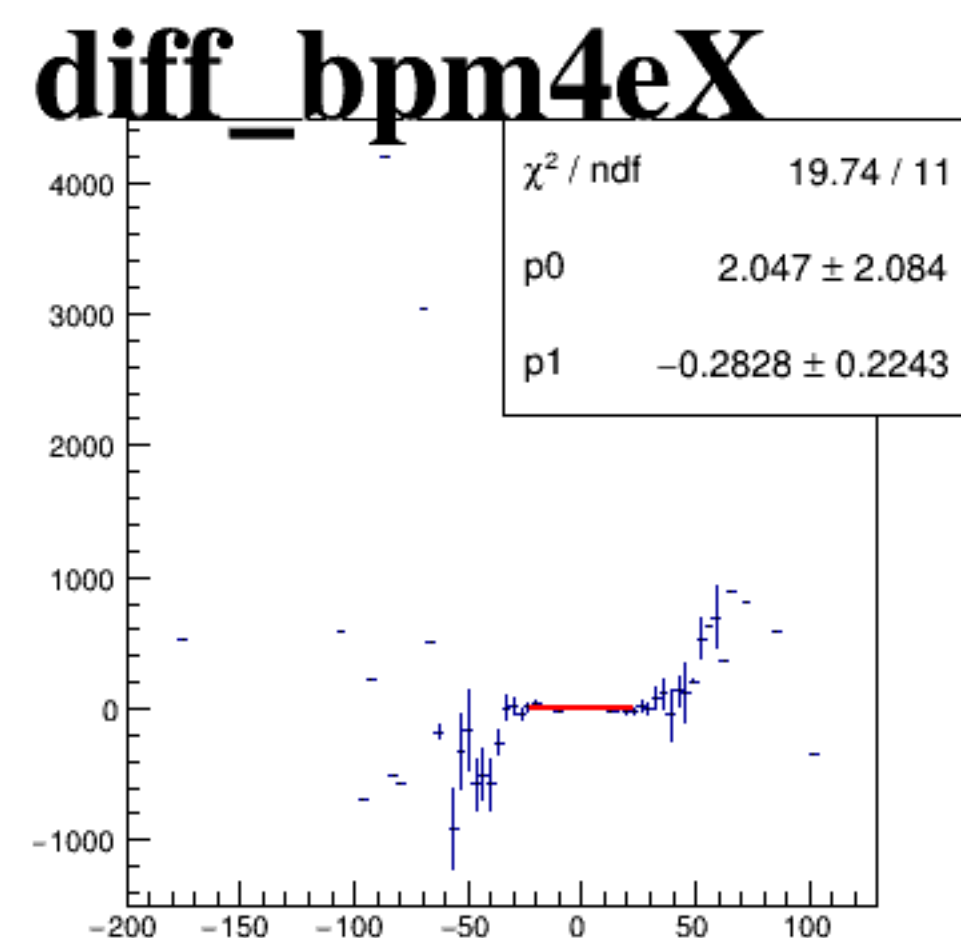
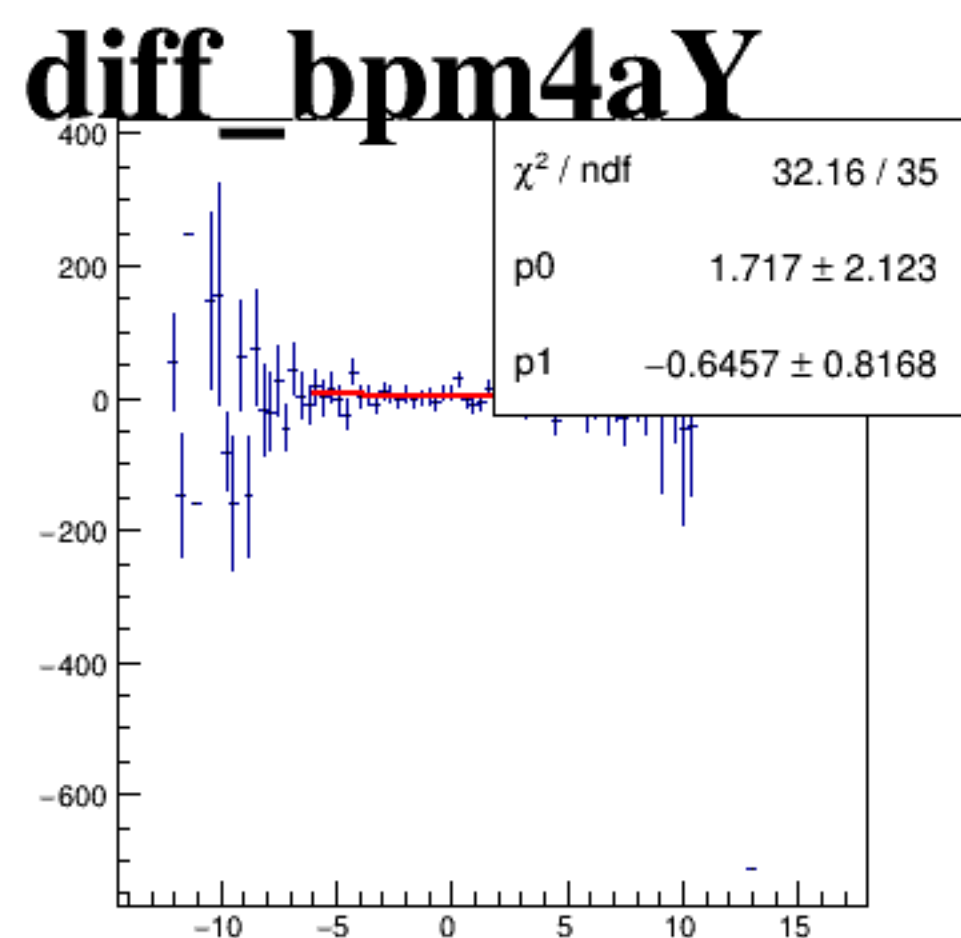
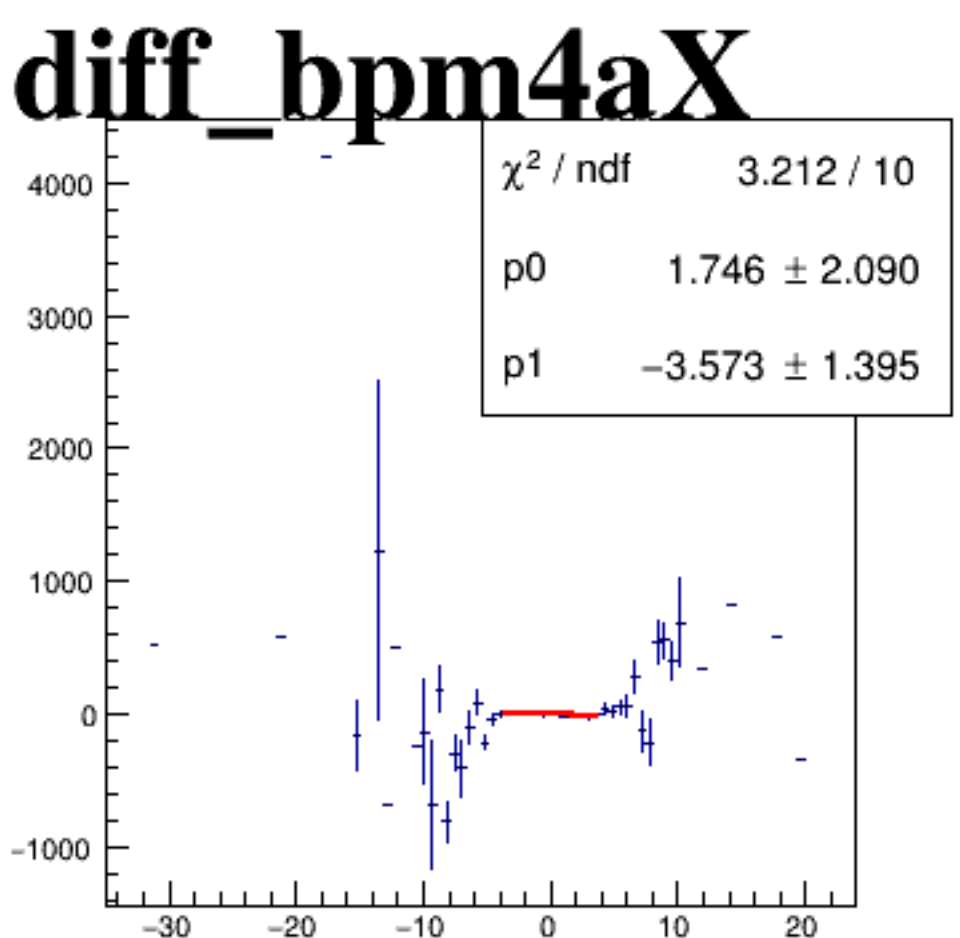
reg_asym_sam2



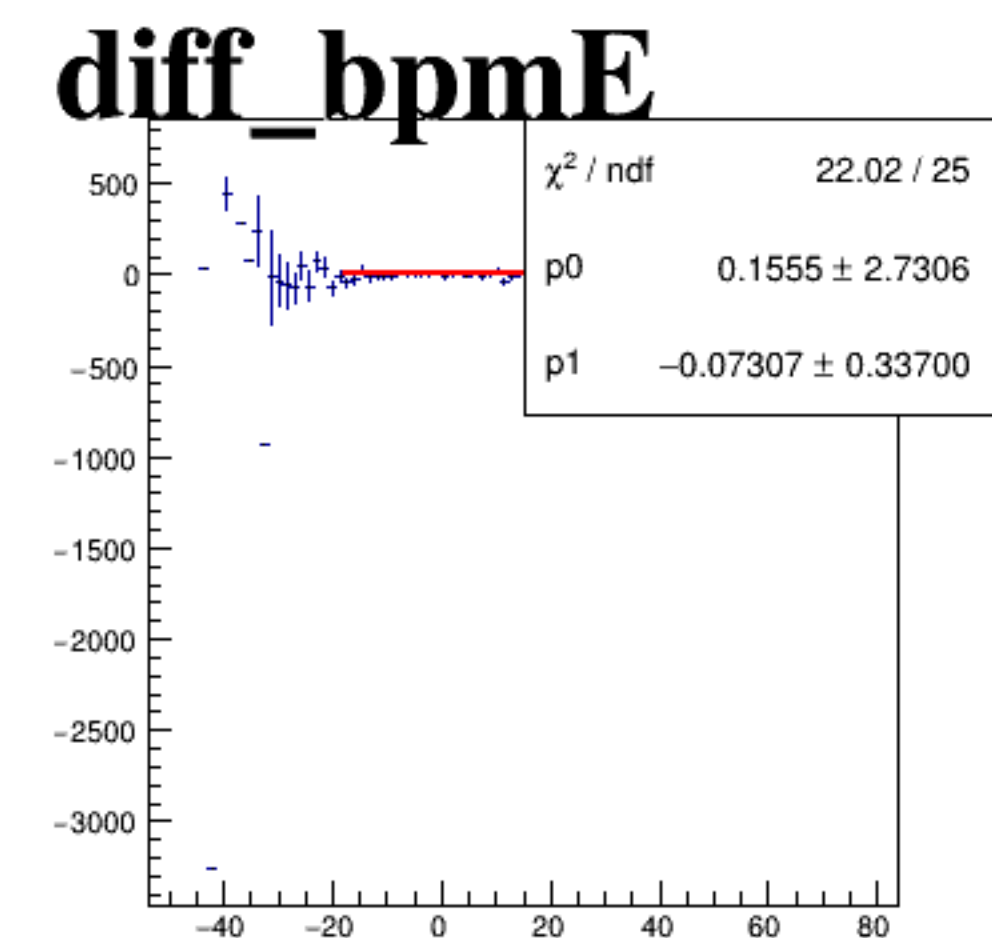
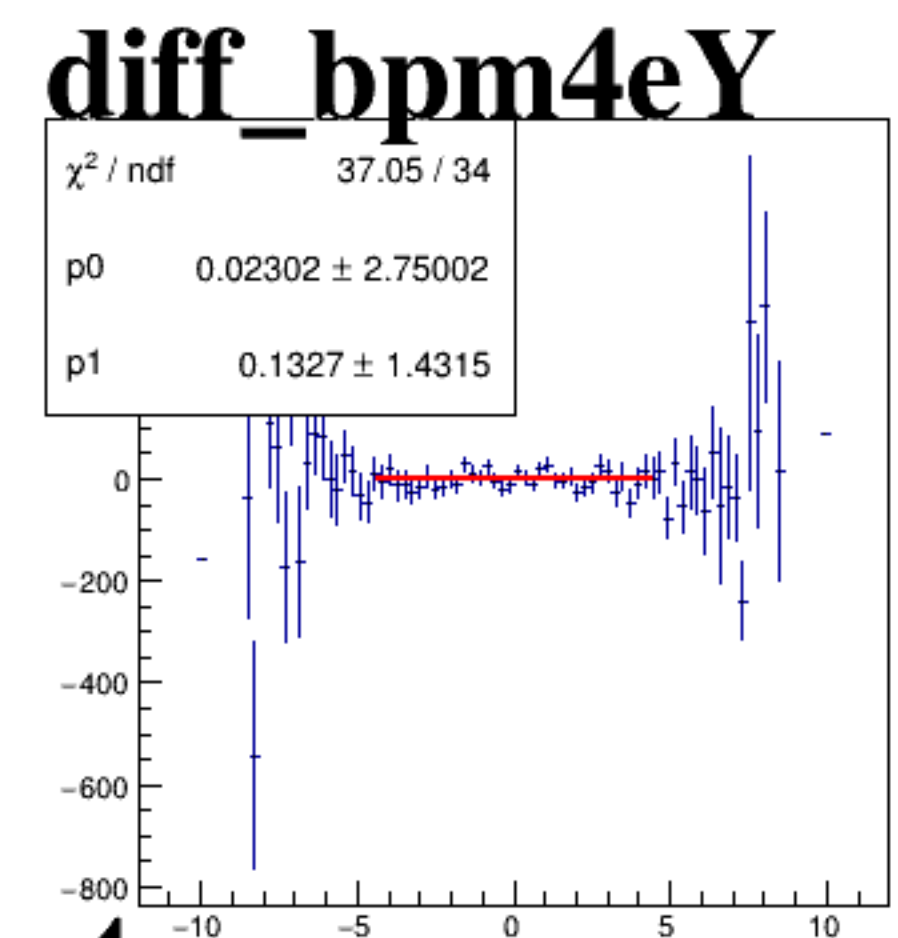
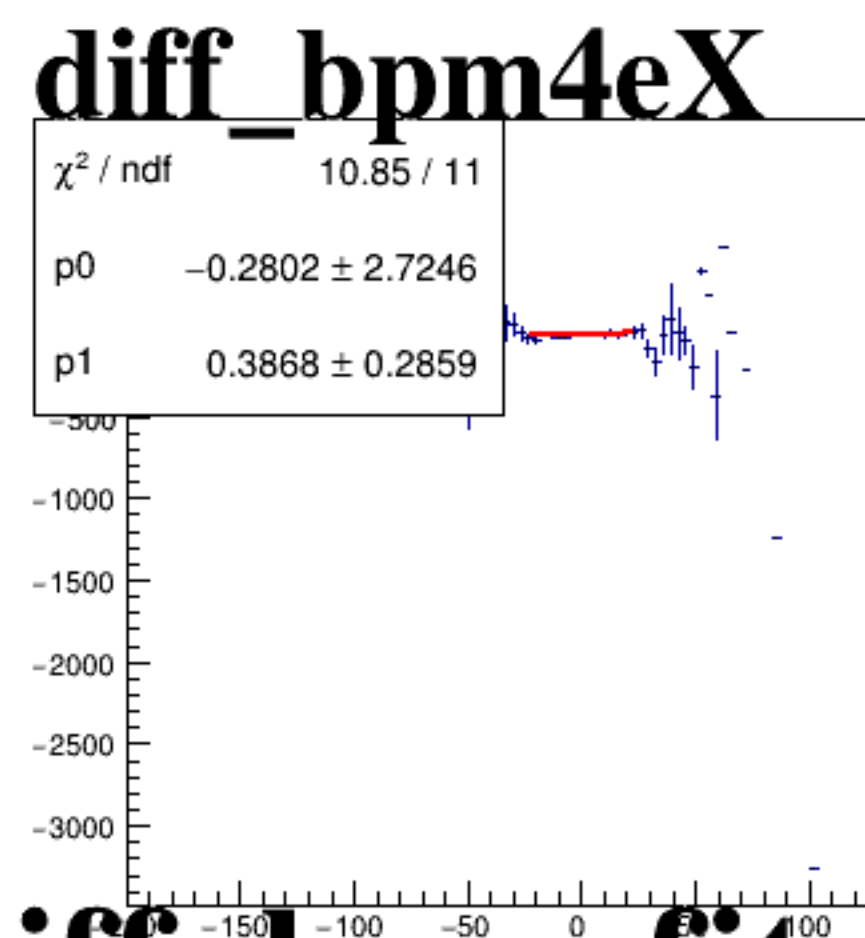
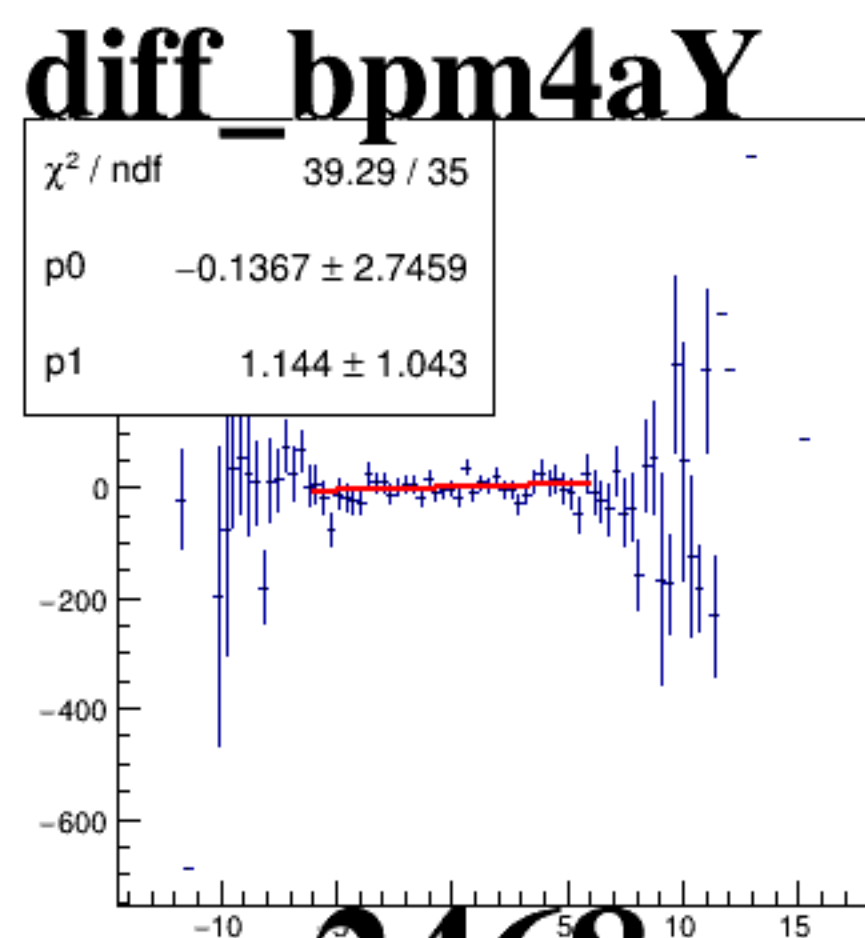
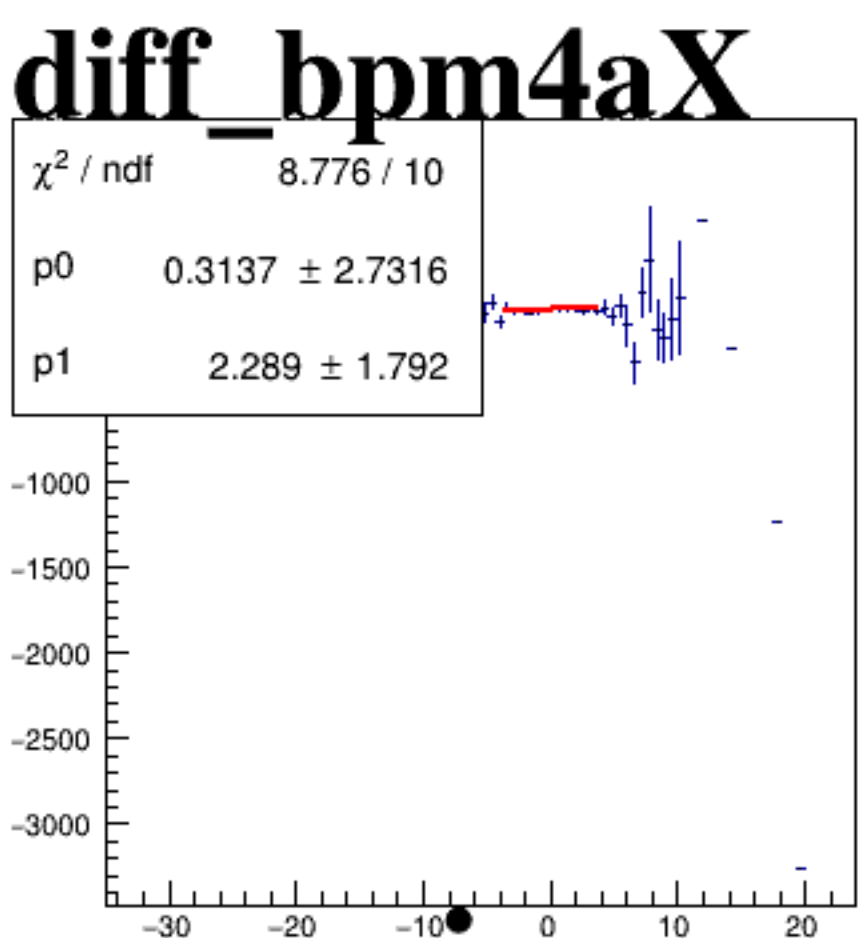
reg_asym_sam4



reg_asym_sam6



reg_asym_sam8



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

- diff_bpm4aX**: The x-axis is labeled `diff_bpm4aX/um` and ranges from -30 to 20. The y-axis ranges from -10000 to 10000. The data points form a dense, vertically elongated cluster centered around zero.
- diff_bpm4aY**: The x-axis is labeled `diff_bpm4aY/um` and ranges from -10 to 15. The y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cluster centered around zero.
- diff_bpm4eX**: The x-axis is labeled `diff_bpm4eX/um` and ranges from -200 to 100. The y-axis ranges from -10000 to 10000. The data points form a dense, vertically elongated cluster centered around zero.
- diff_bpm4eY**: The x-axis is labeled `diff_bpm4eY/um` and ranges from -10 to 10. The y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cluster centered around zero.
- diff_bpmE**: The x-axis is labeled `diff_bpmE/um` and ranges from -40 to 80. The y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cluster centered around zero.

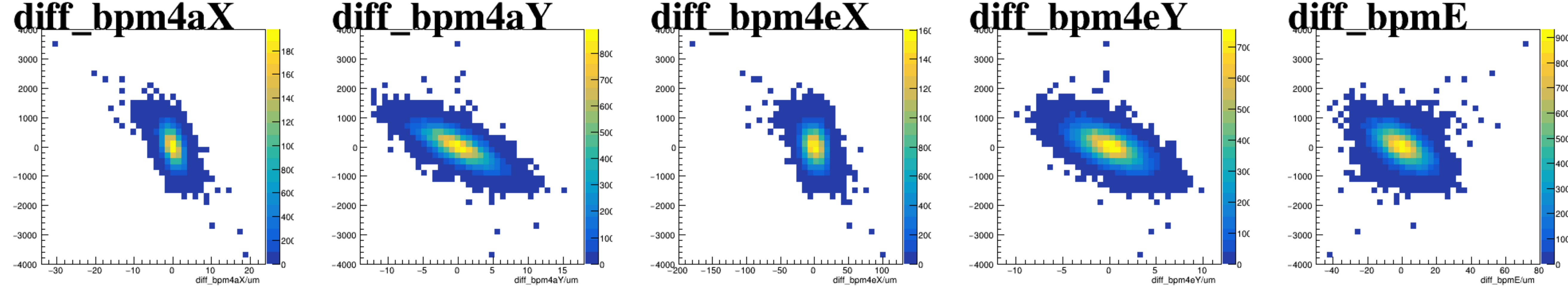
The figure consists of five scatter plots arranged horizontally, each showing the difference in BPM coordinates for a specific beam position. The y-axis for all plots is labeled 'diff_bpm' and ranges from -4000 to 4000. The x-axis for each plot is labeled 'diff_bpm' and ranges from -30 to 20 (aX), -10 to 15 (aY), -200 to 100 (eX), -10 to 10 (eY), and -40 to 80 (E). The plots show a dense, elongated cloud of points centered around the origin, indicating a high degree of correlation between the two coordinates.

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

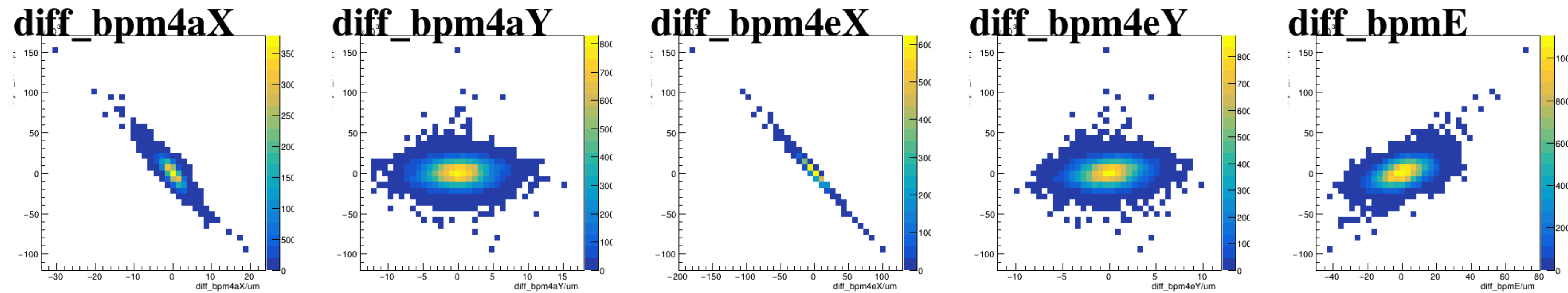
- diff_bpm4aX**: The x-axis is labeled `diff_bpm4aX/um` and ranges from -30 to 20. The y-axis ranges from -2000 to 4000. The data points are clustered around (0, 0).
- diff_bpm4aY**: The x-axis is labeled `diff_bpm4aY/um` and ranges from -10 to 15. The y-axis ranges from -2000 to 4000. The data points are clustered around (0, 0).
- diff_bpm4eX**: The x-axis is labeled `diff_bpm4eX/um` and ranges from -200 to 100. The y-axis ranges from -2000 to 4000. The data points are clustered around (0, 0).
- diff_bpm4eY**: The x-axis is labeled `diff_bpm4eY/um` and ranges from -10 to 10. The y-axis ranges from -2000 to 4000. The data points are clustered around (0, 0).
- diff_bpmE**: The x-axis is labeled `diff_bpmE/um` and ranges from -40 to 80. The y-axis ranges from -2000 to 4000. The data points are clustered around (0, 0).

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

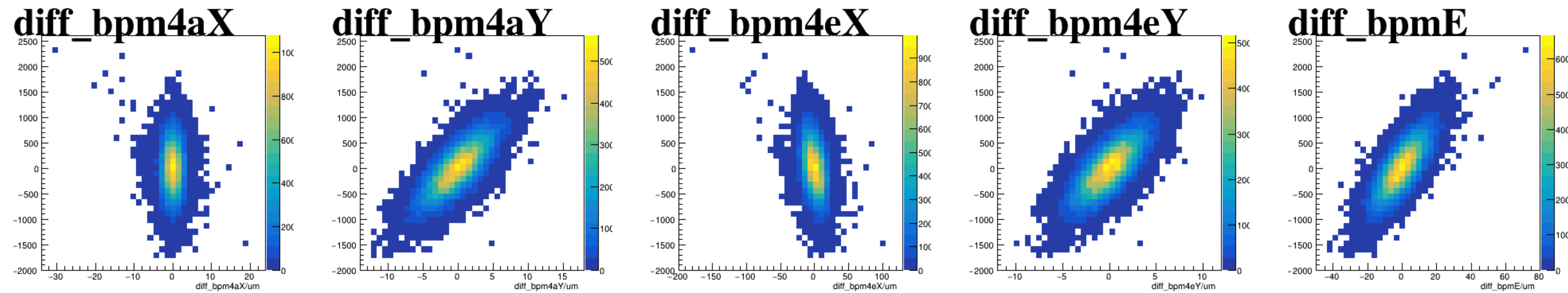
asym_sam1



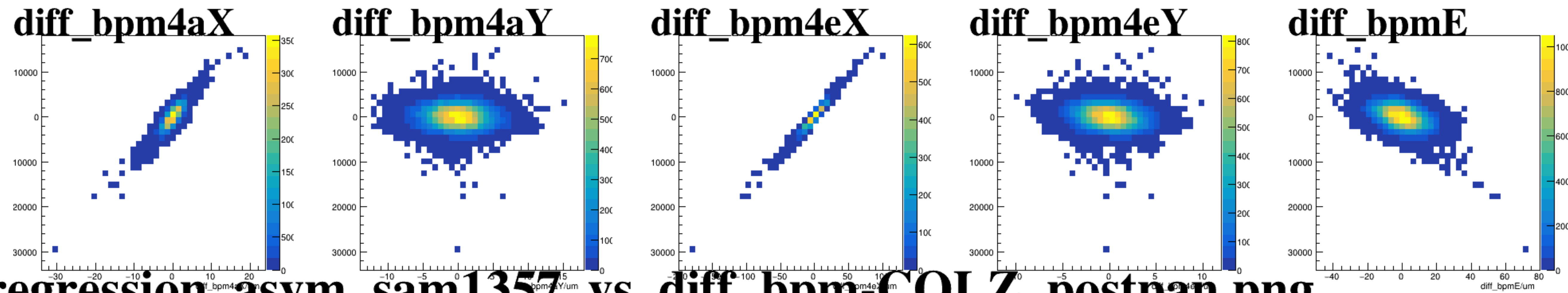
asym_sam3



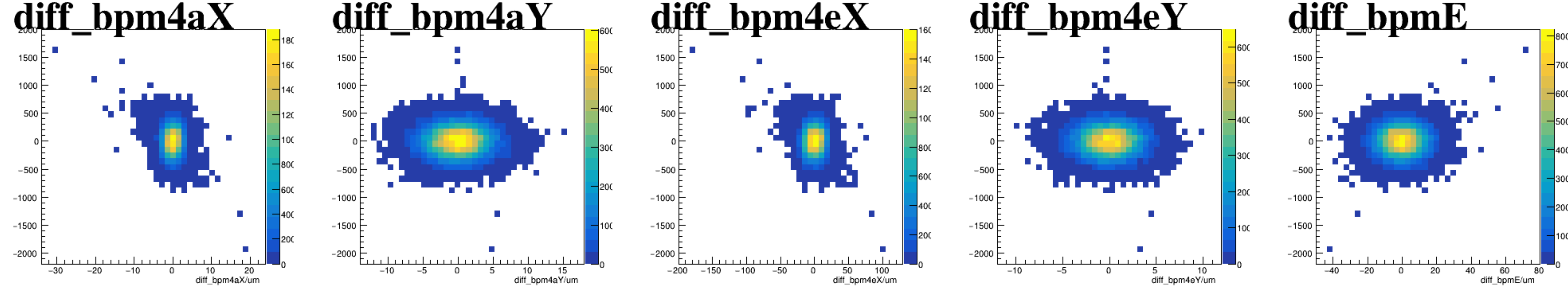
asym_sam5



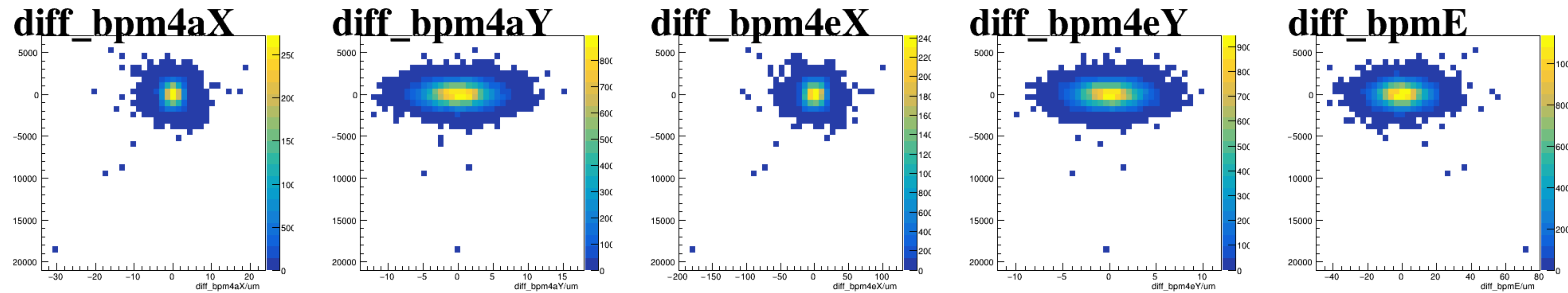
asym_sam7



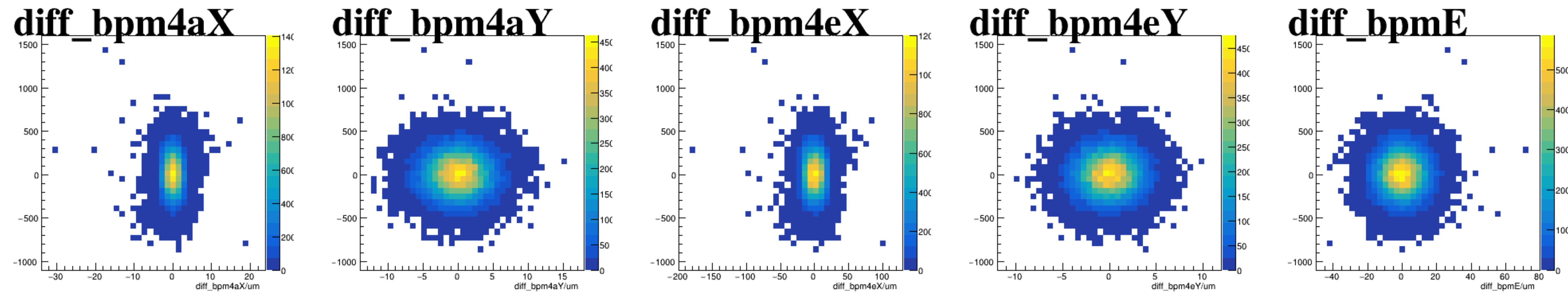
reg_asym_sam1



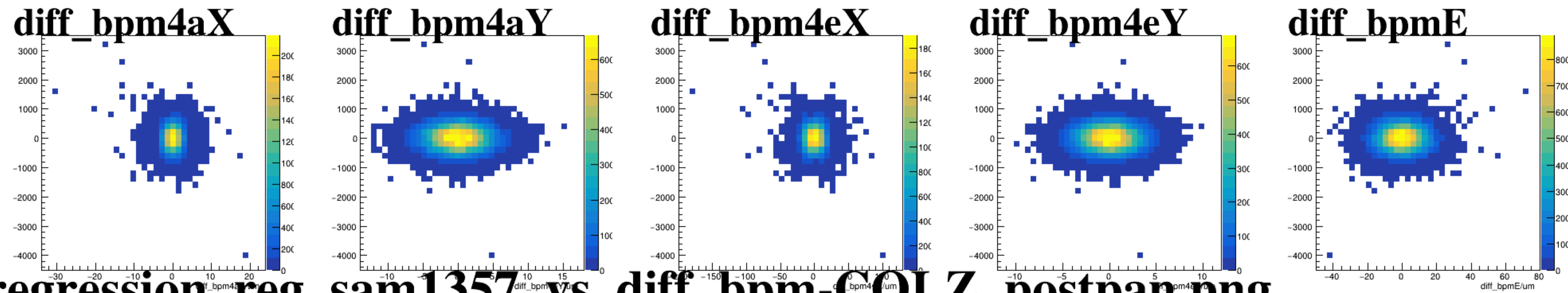
reg_asym_sam3



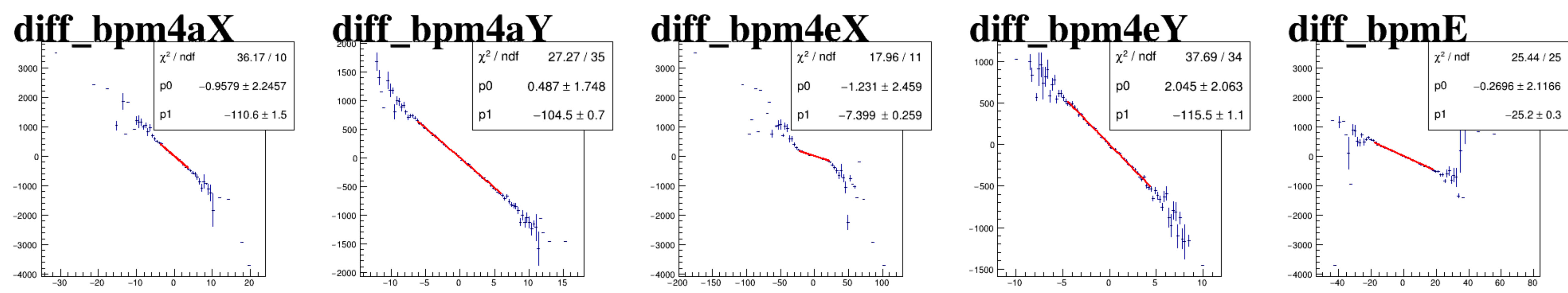
reg_asym_sam5



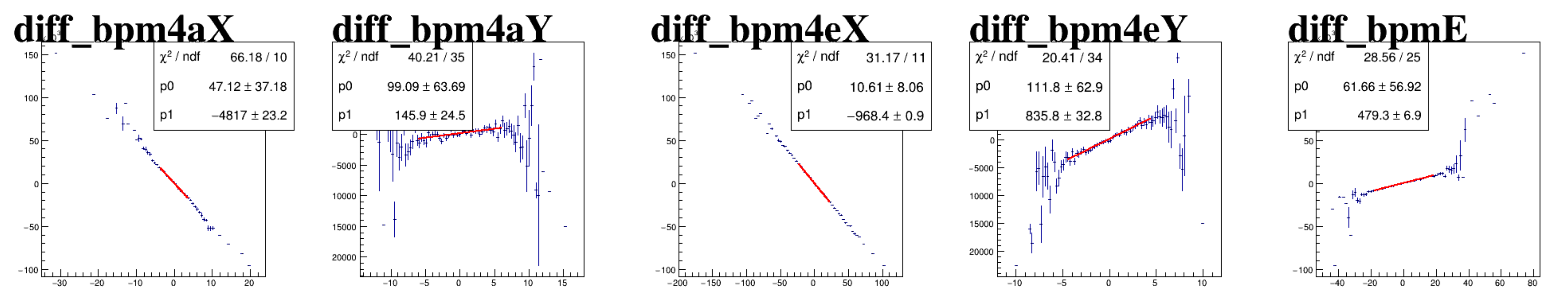
reg_asym_sam7



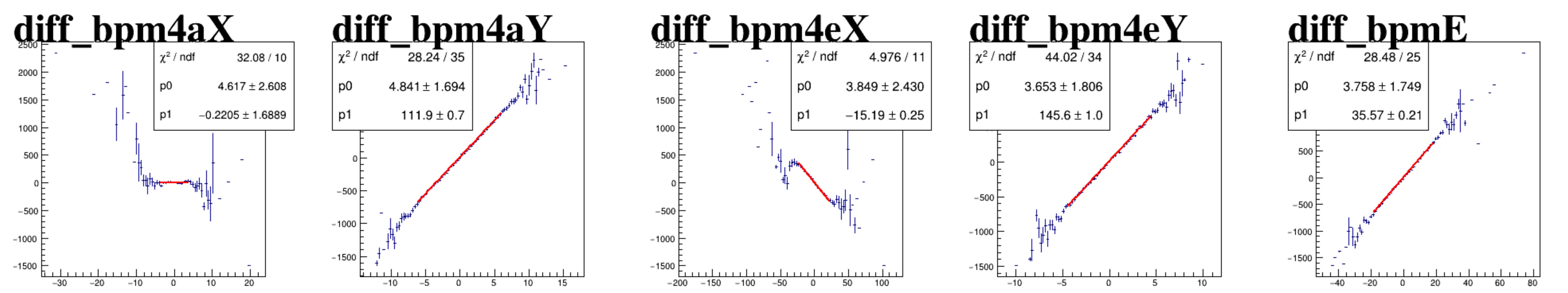
asym_sam1



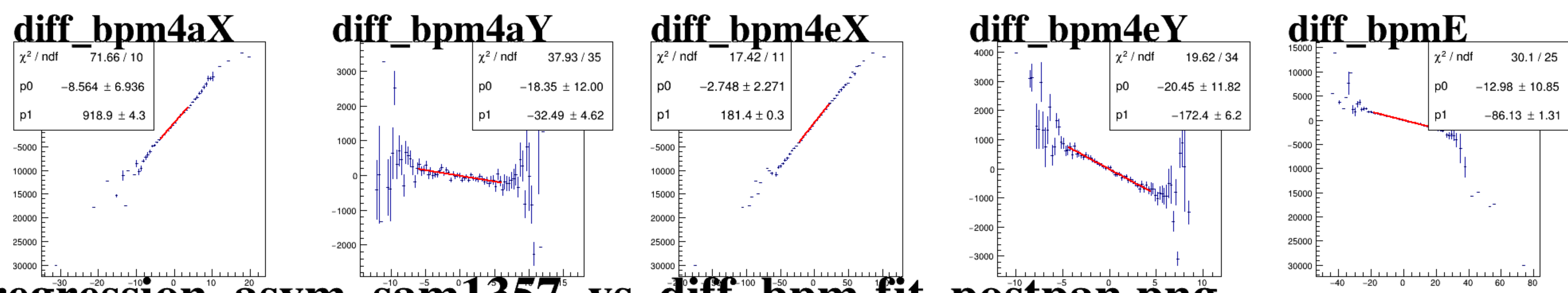
asym_sam3



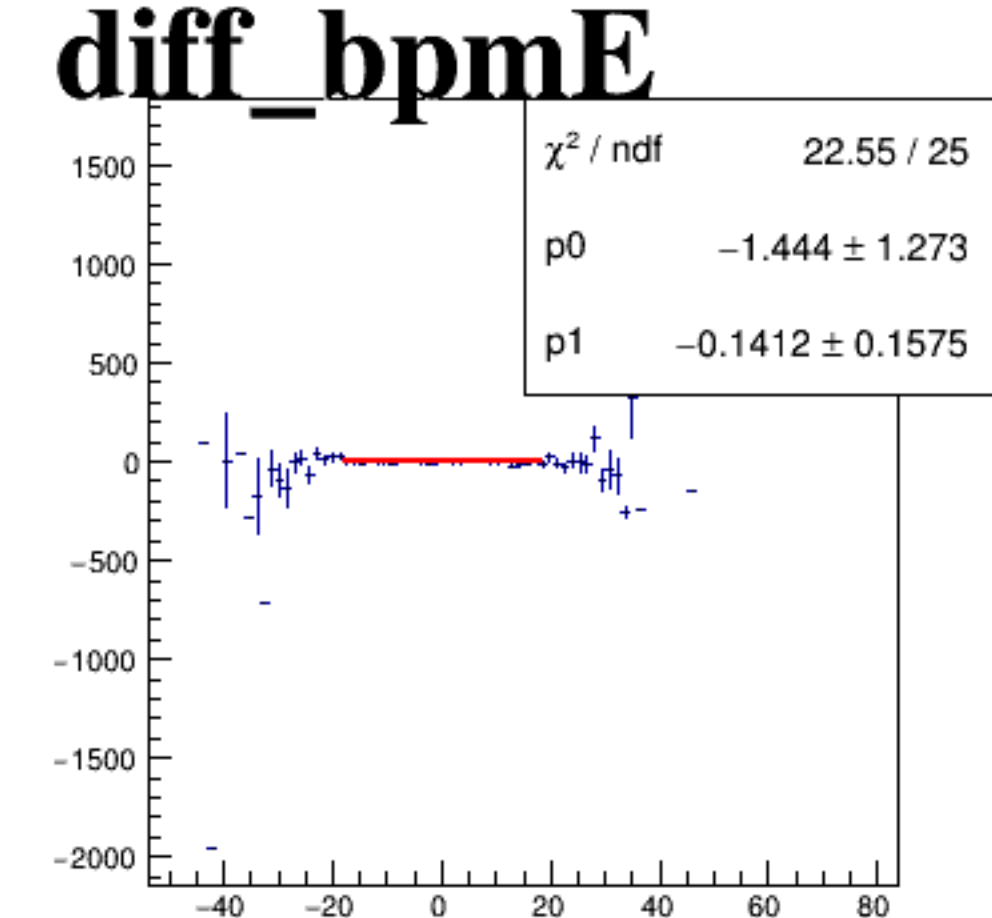
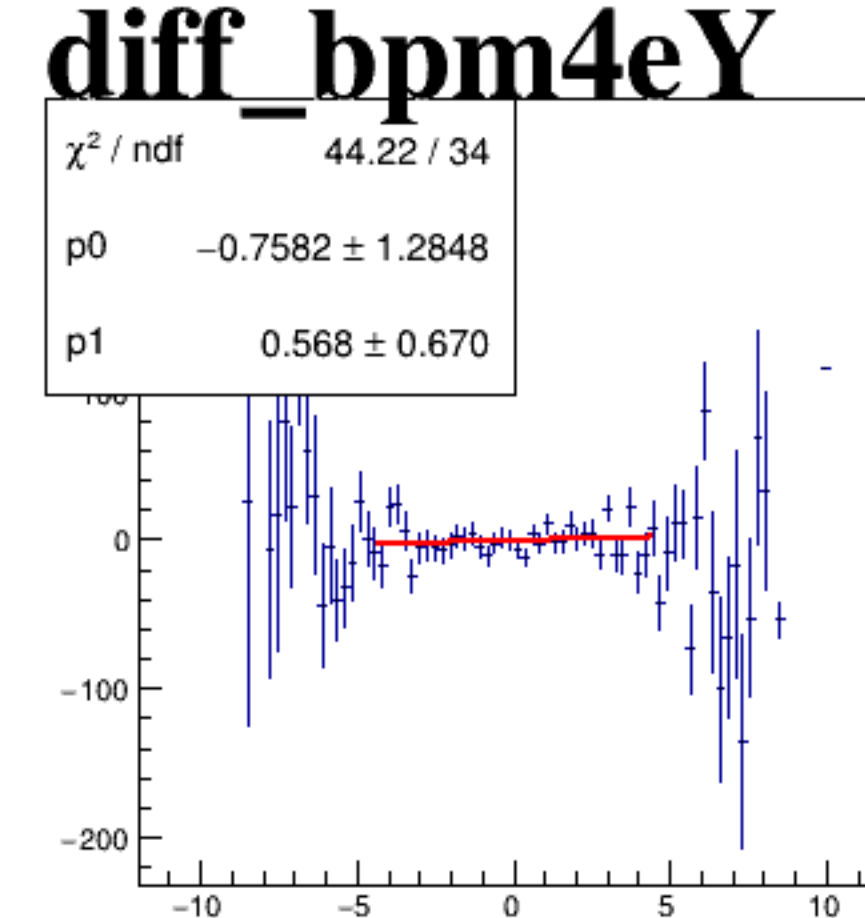
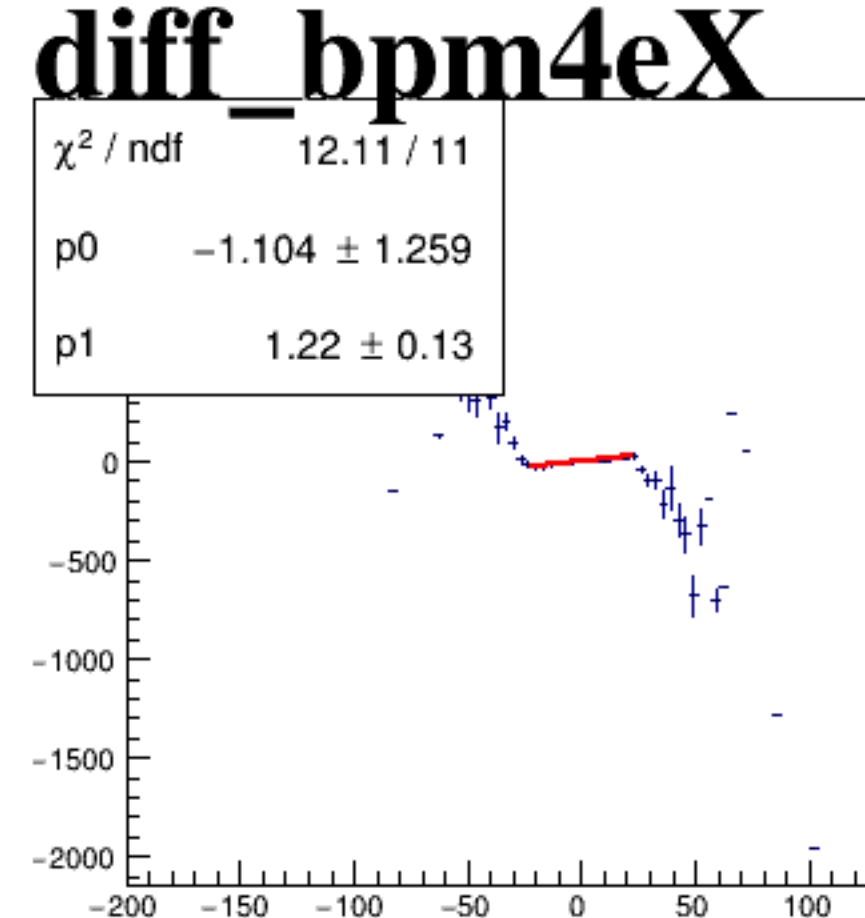
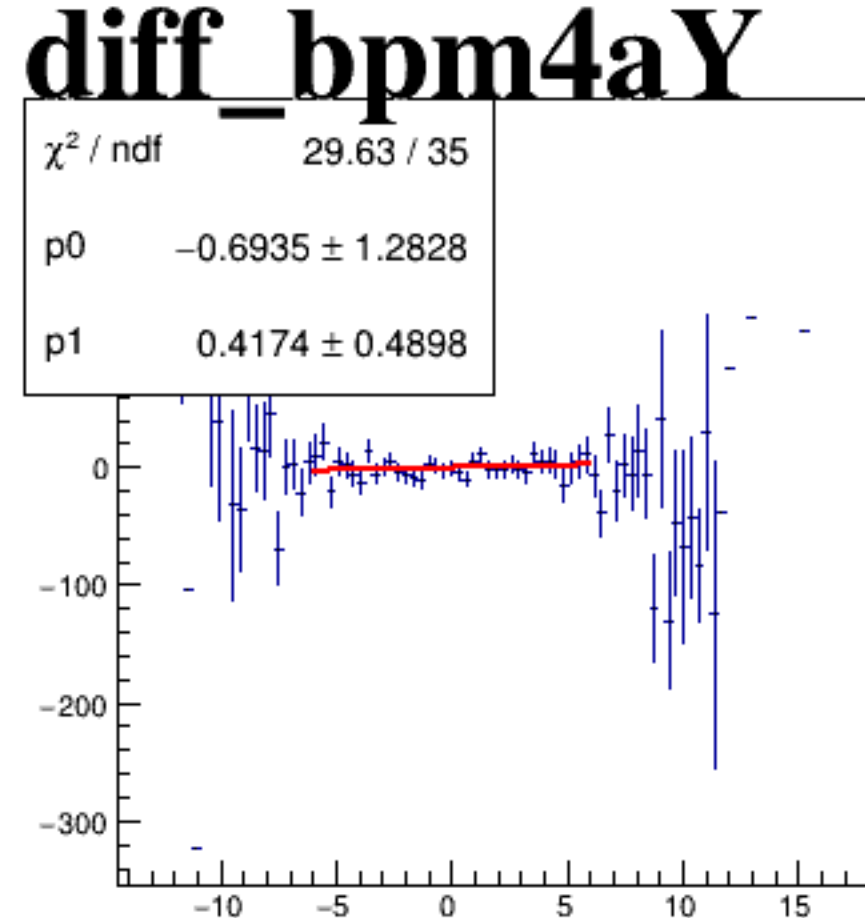
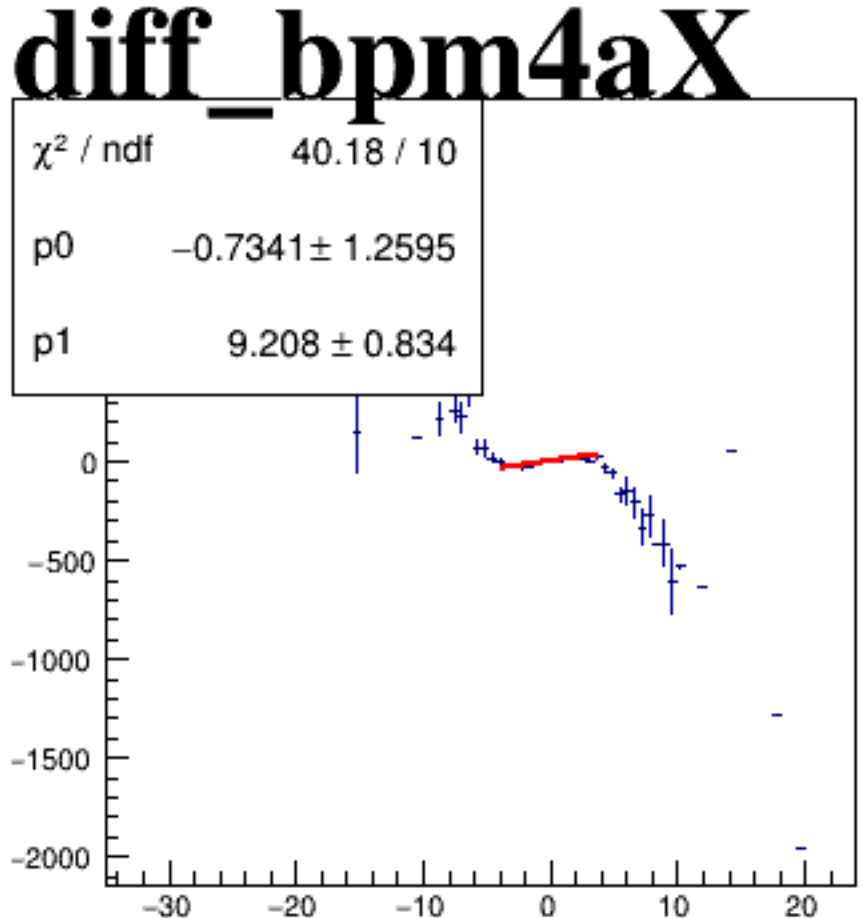
asym_sam5



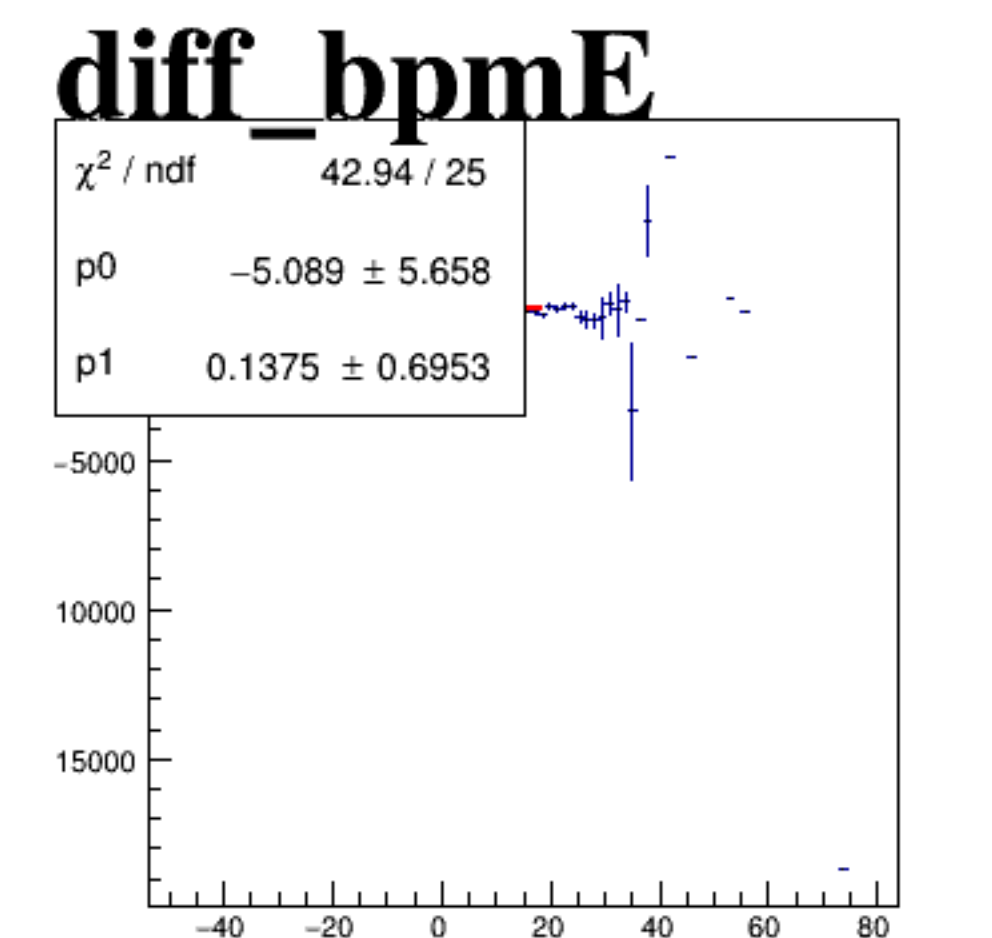
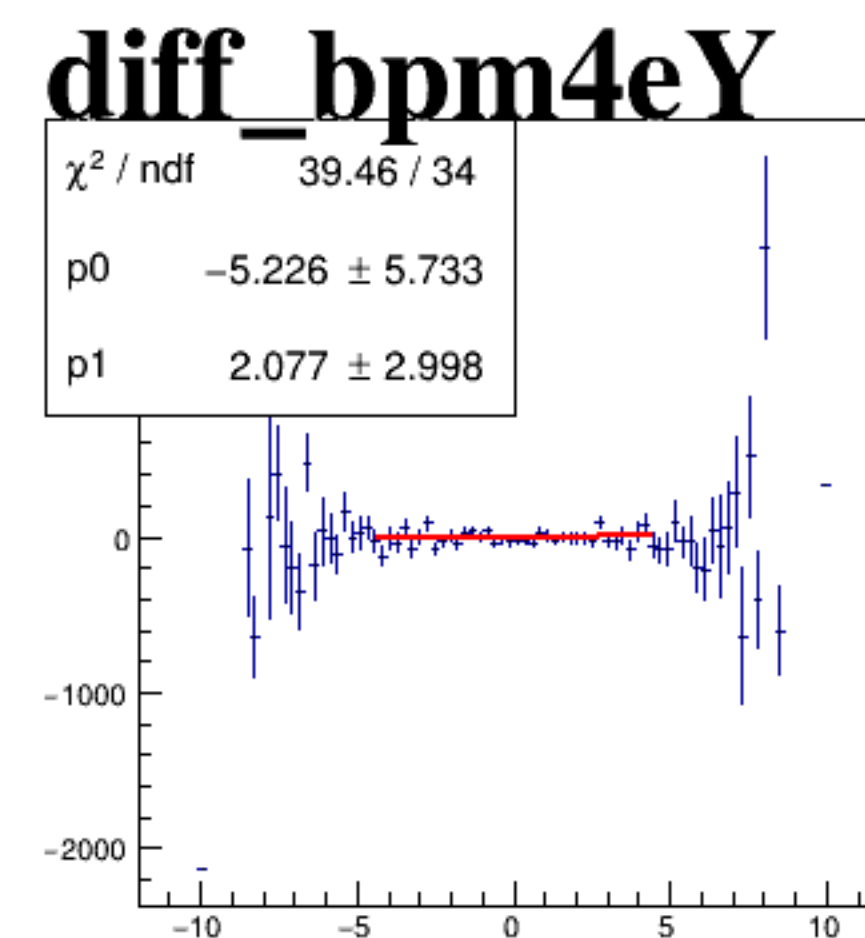
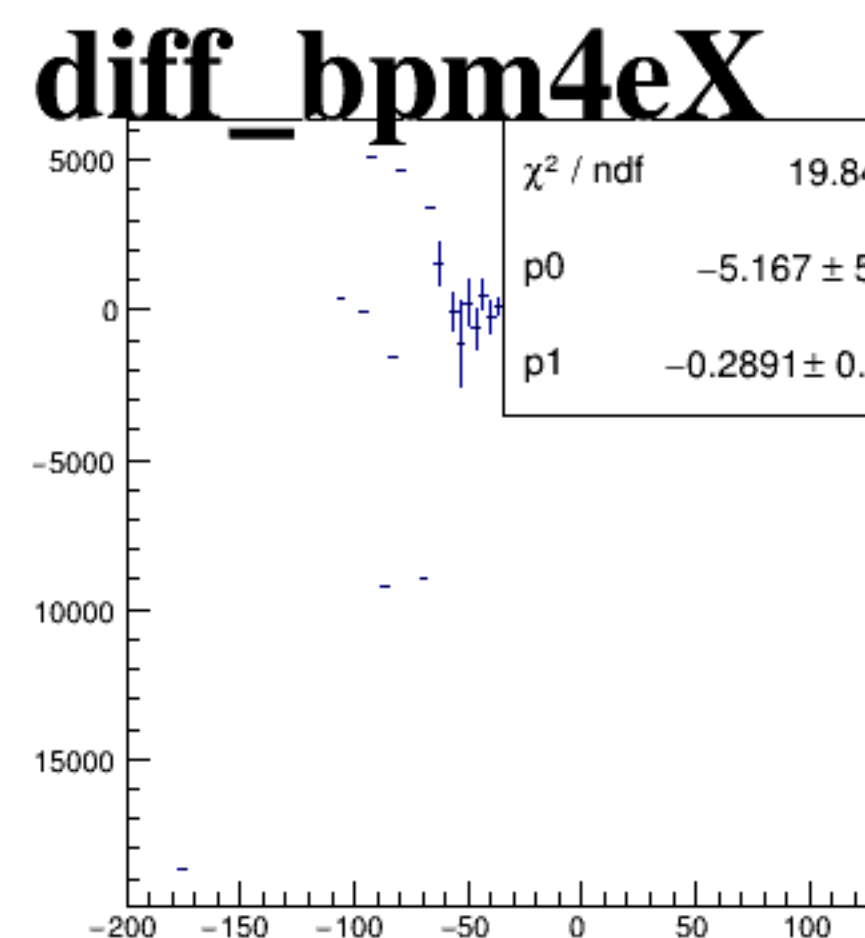
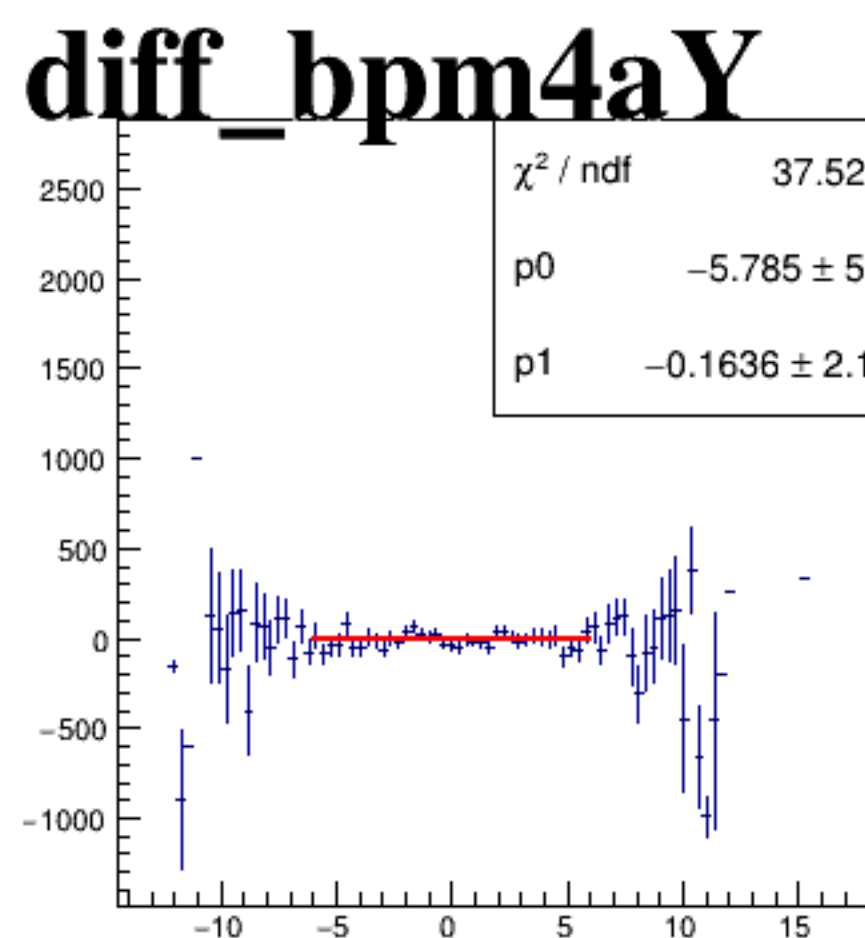
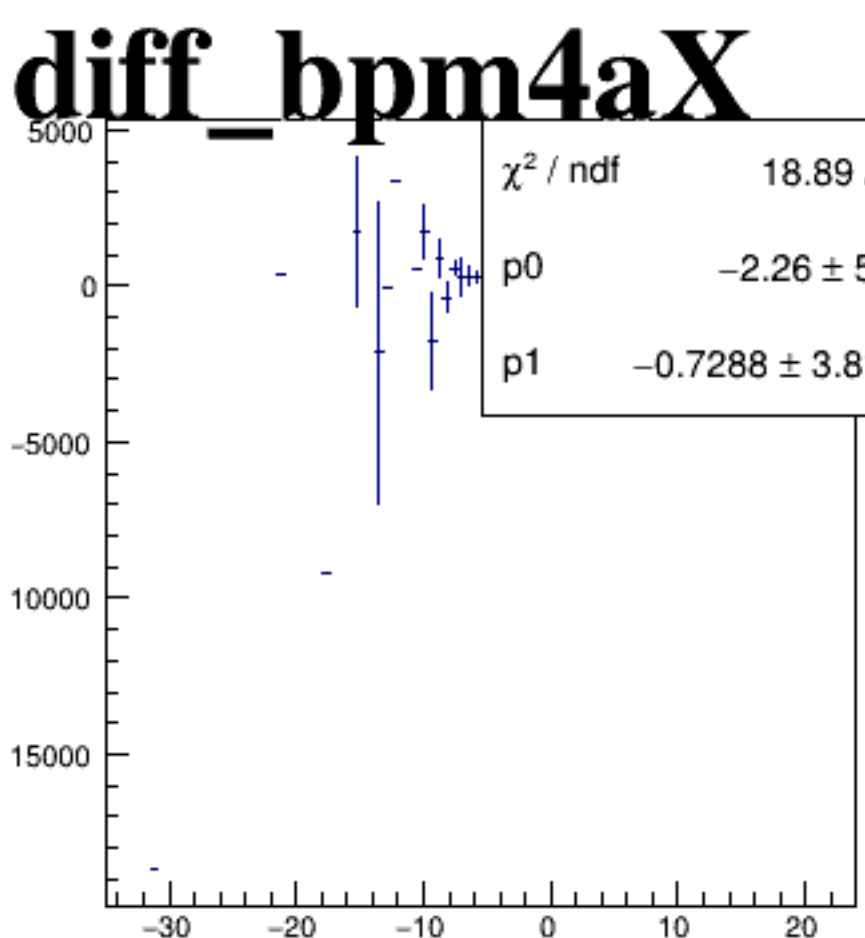
asym_sam7



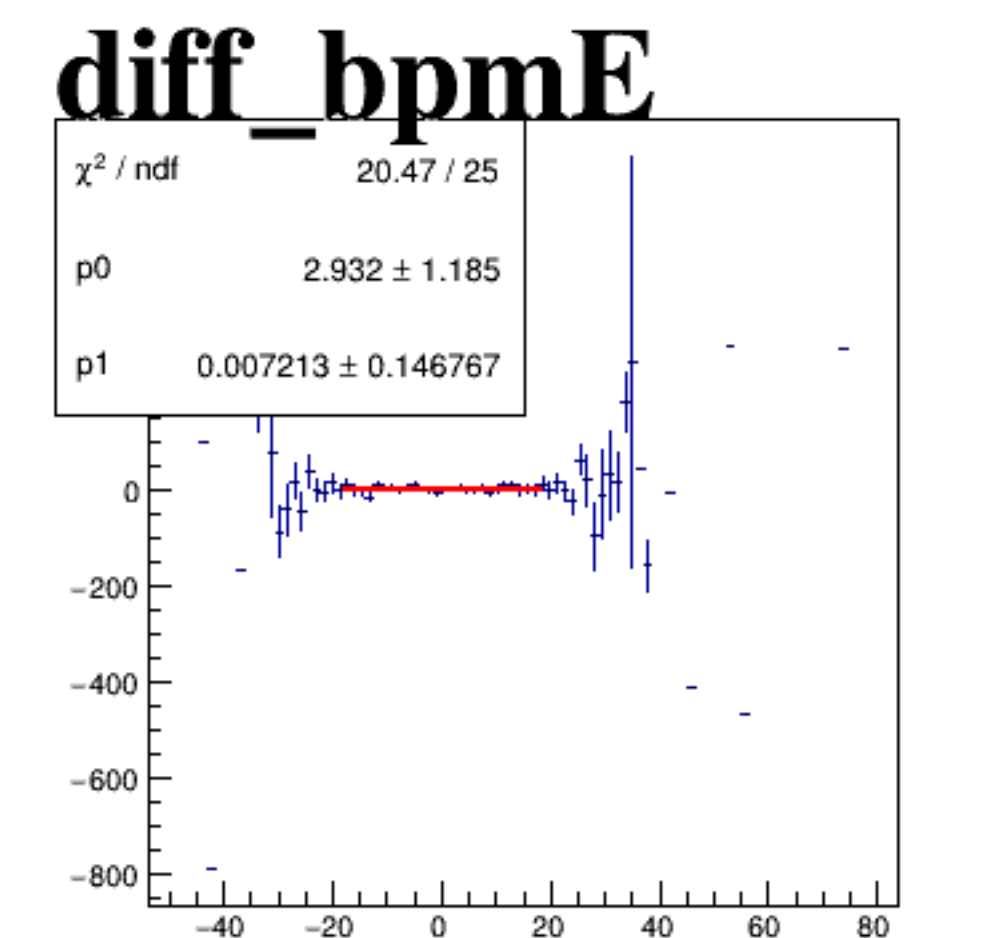
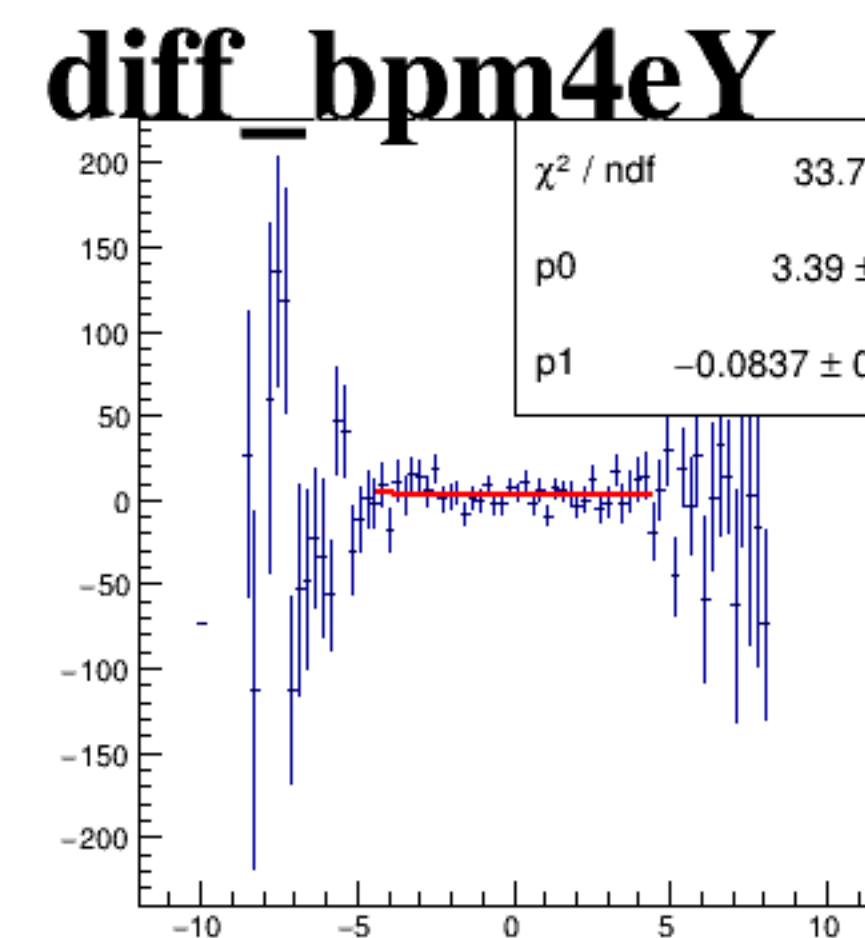
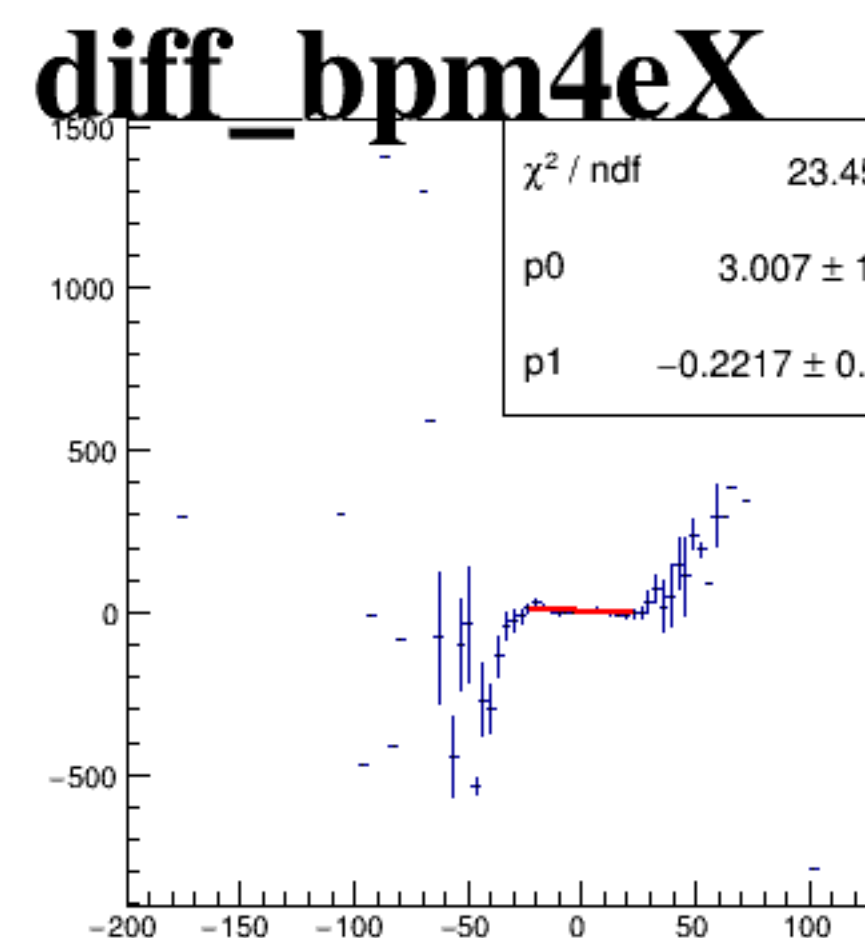
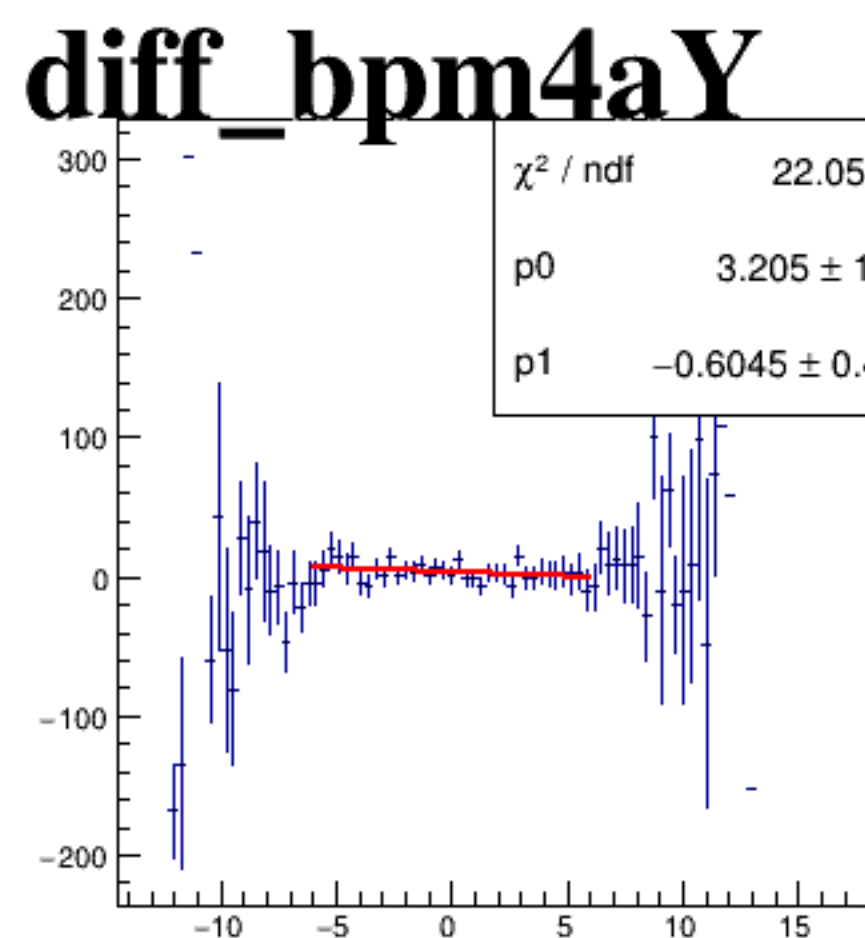
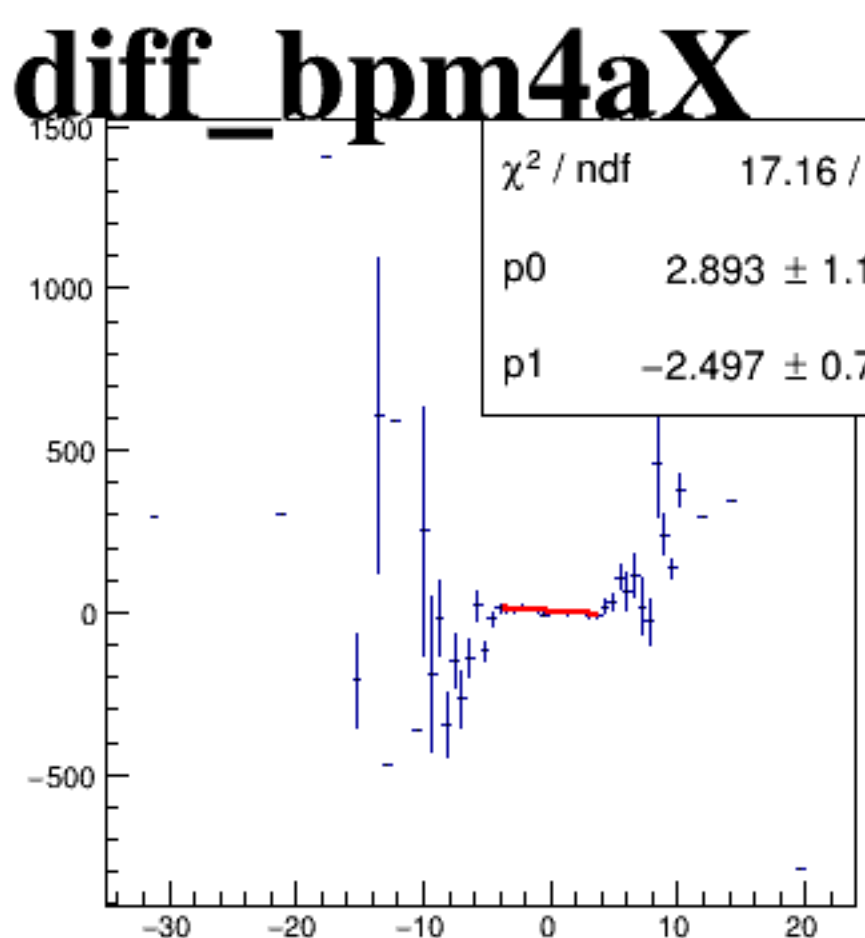
reg_asym_sam1



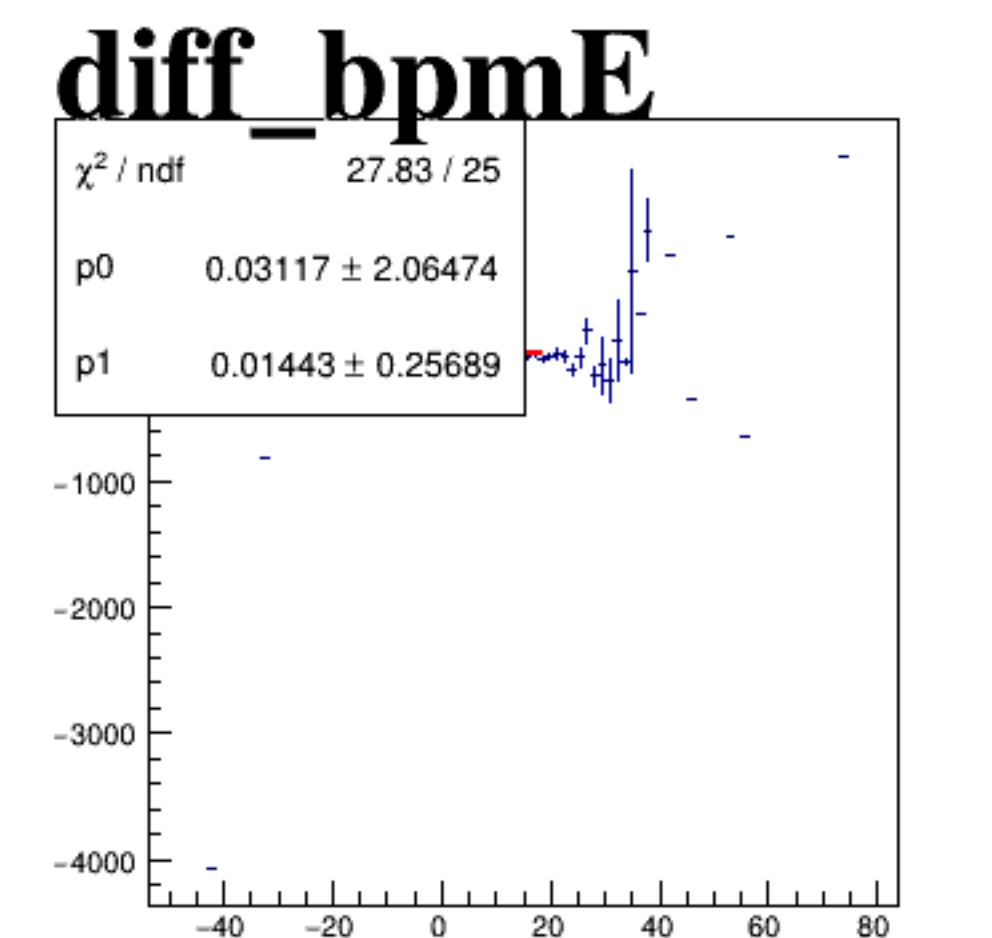
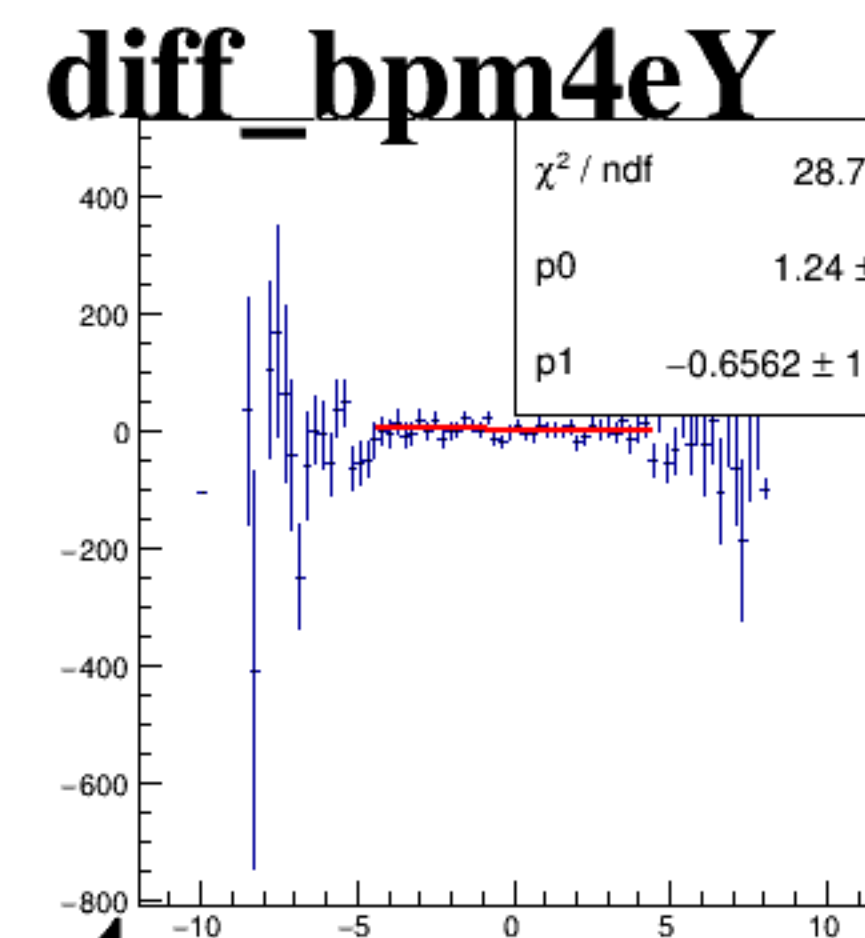
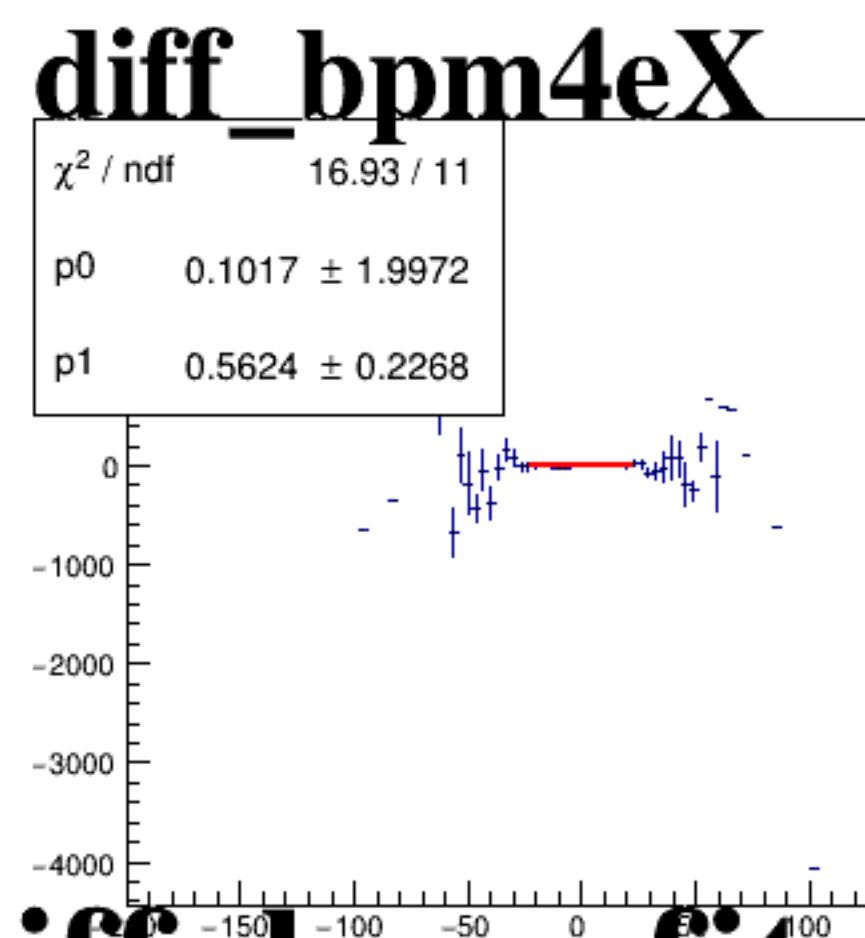
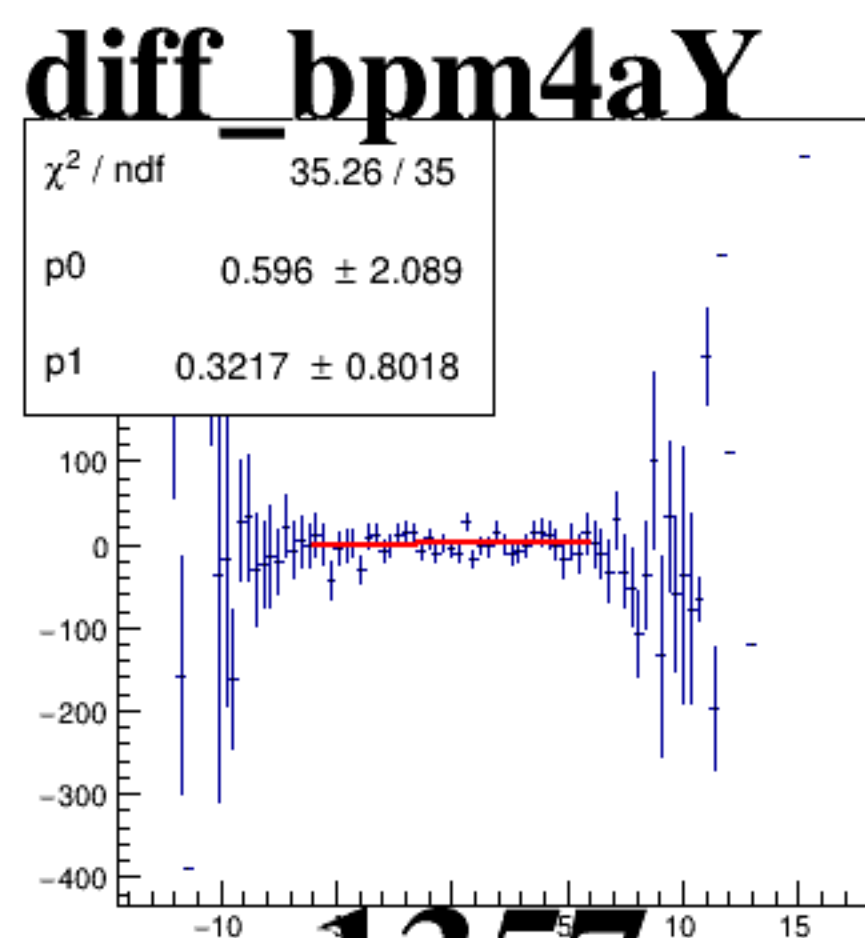
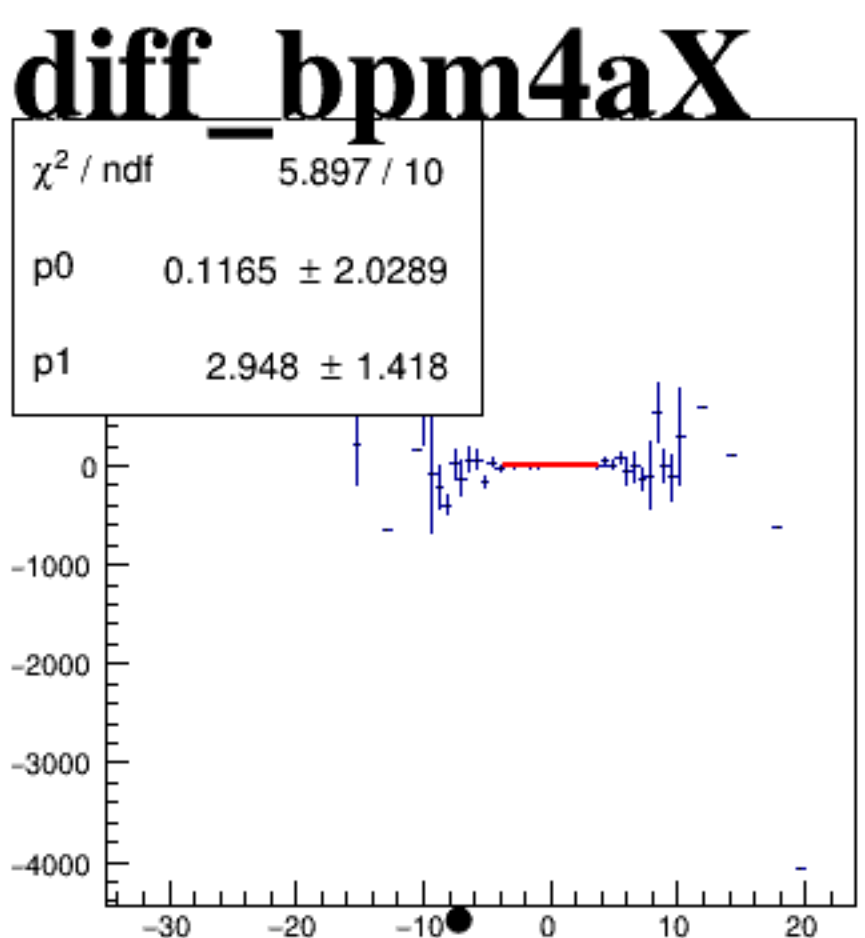
reg_asym_sam3



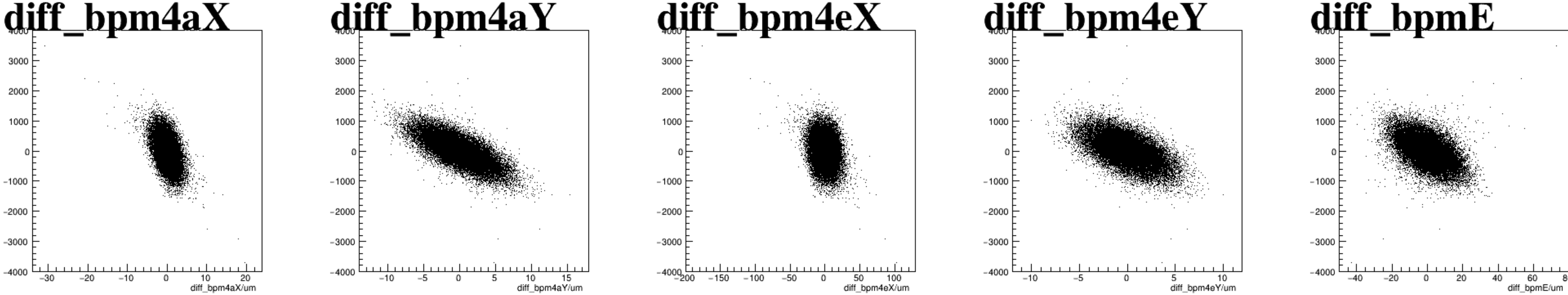
reg_asym_sam5



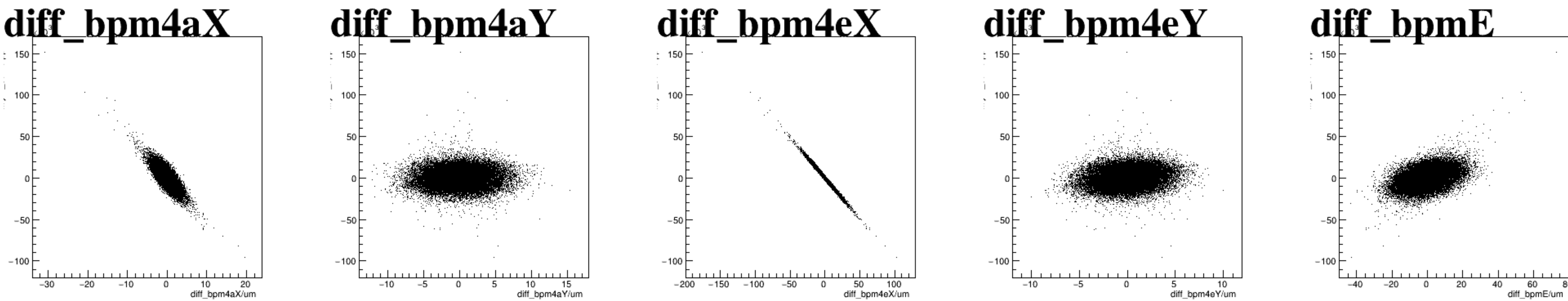
reg_asym_sam7



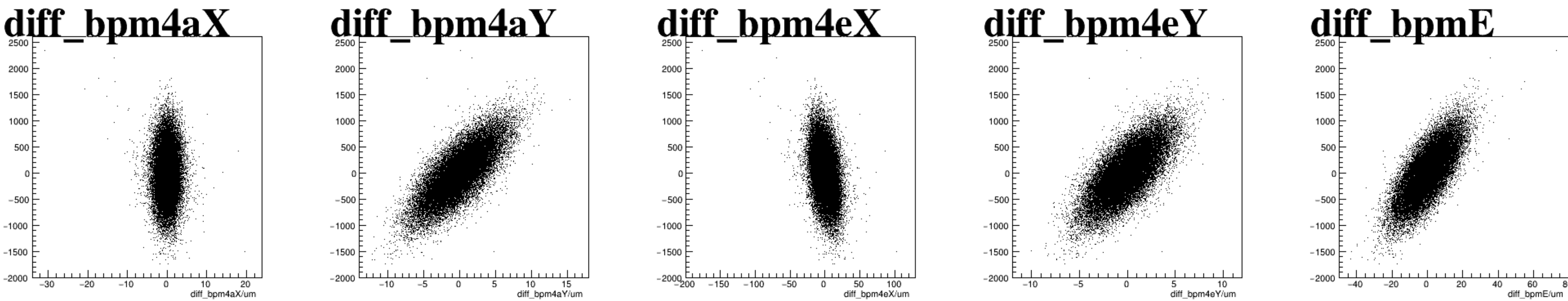
asym_sam1



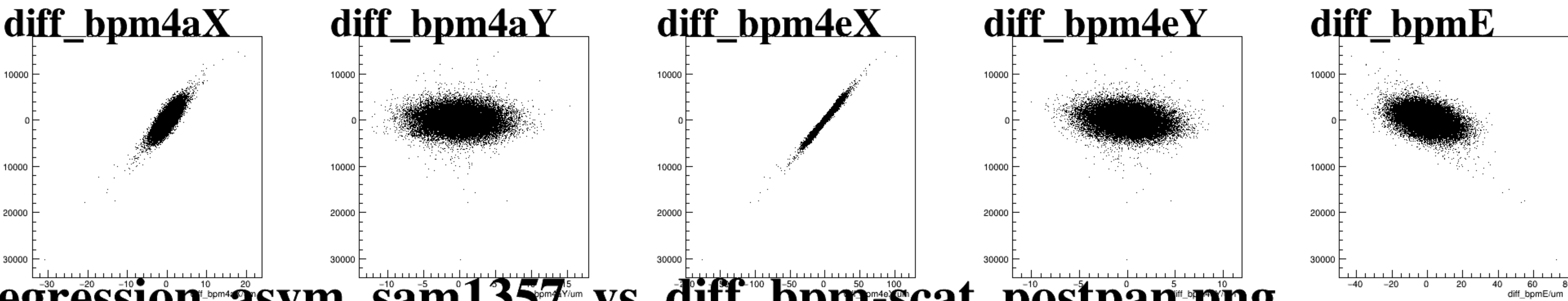
asym_sam3



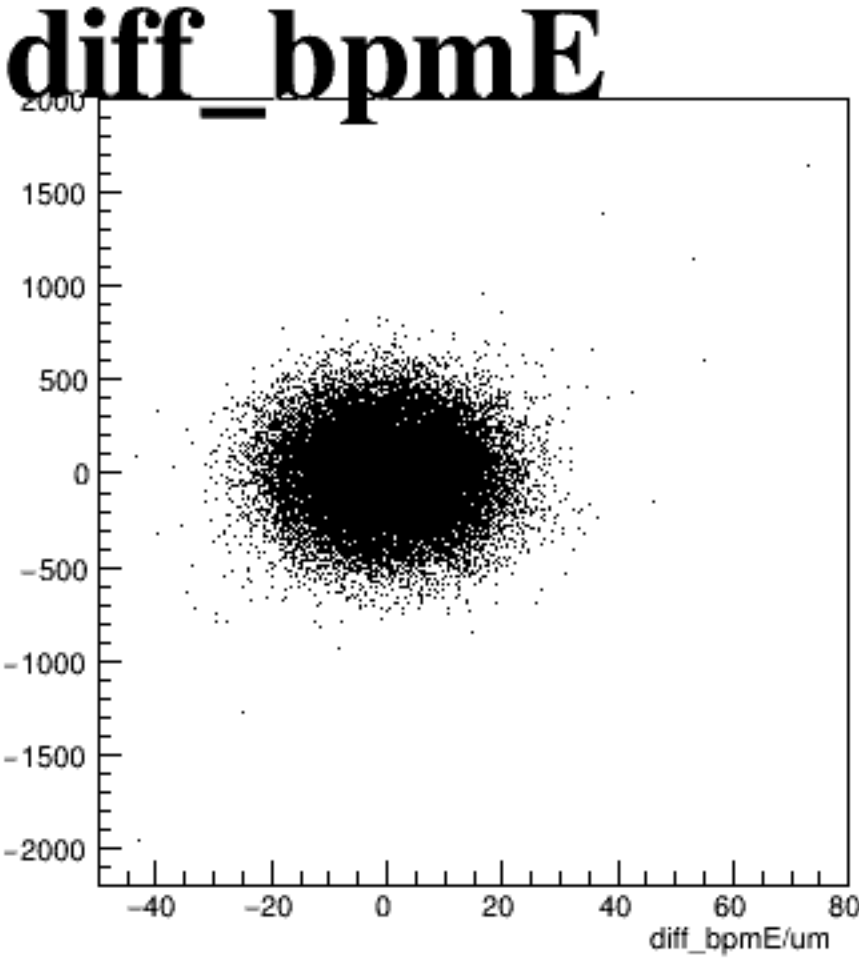
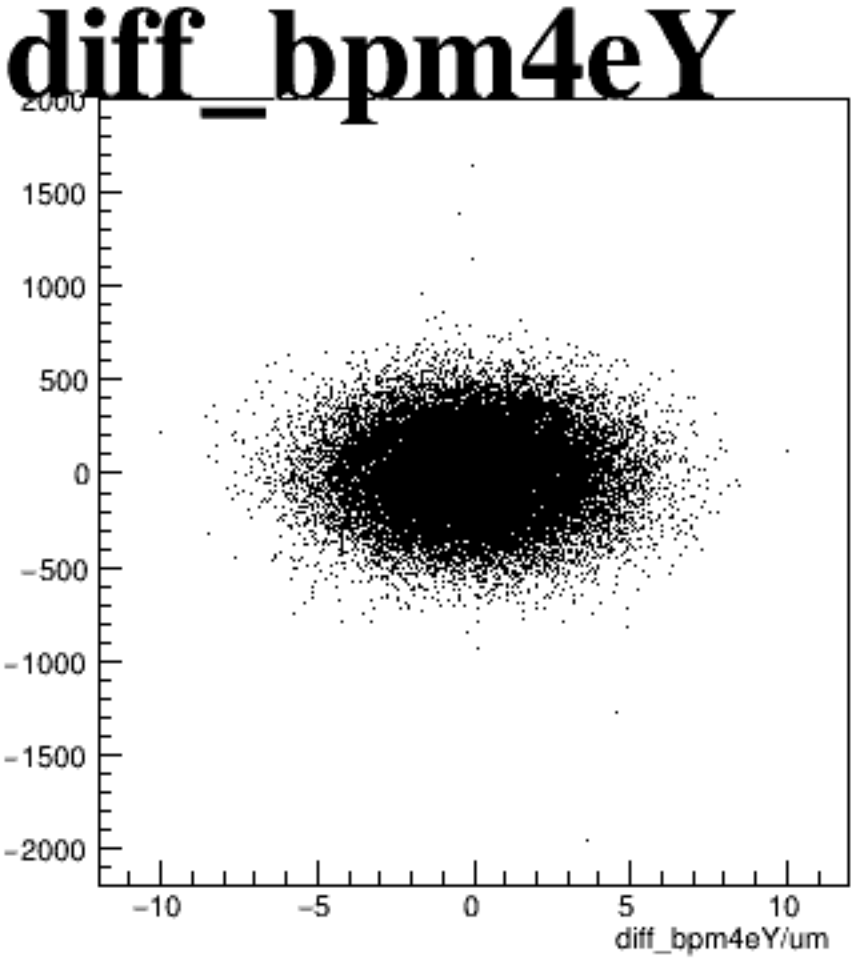
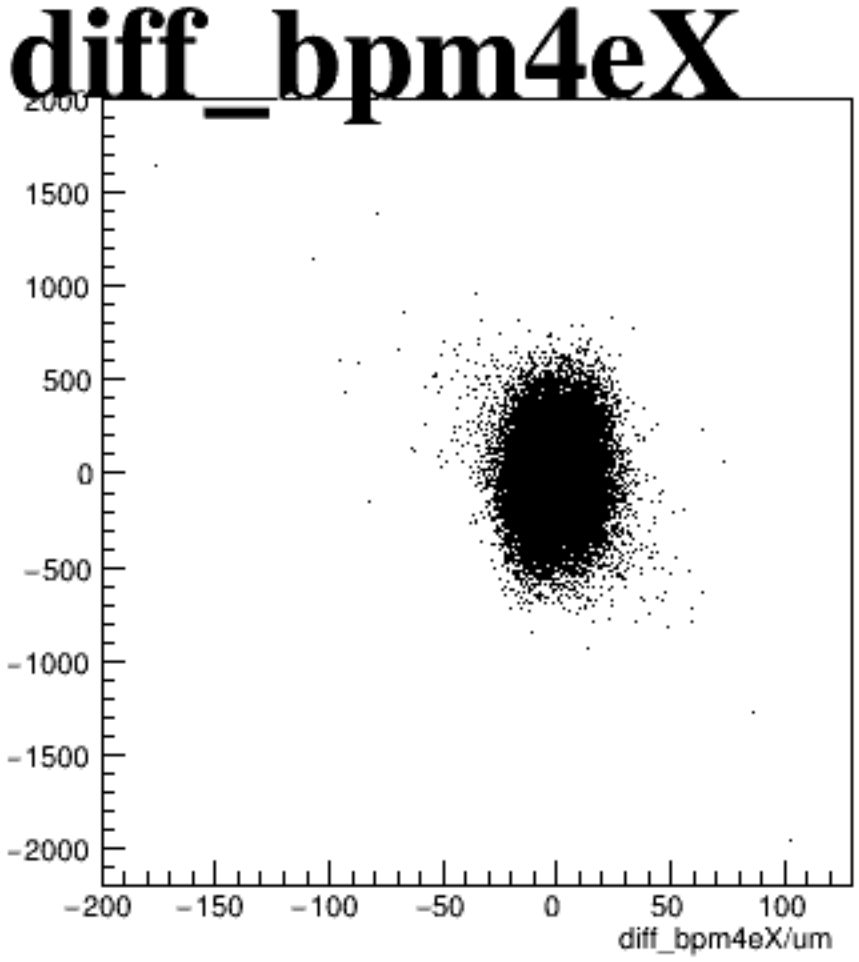
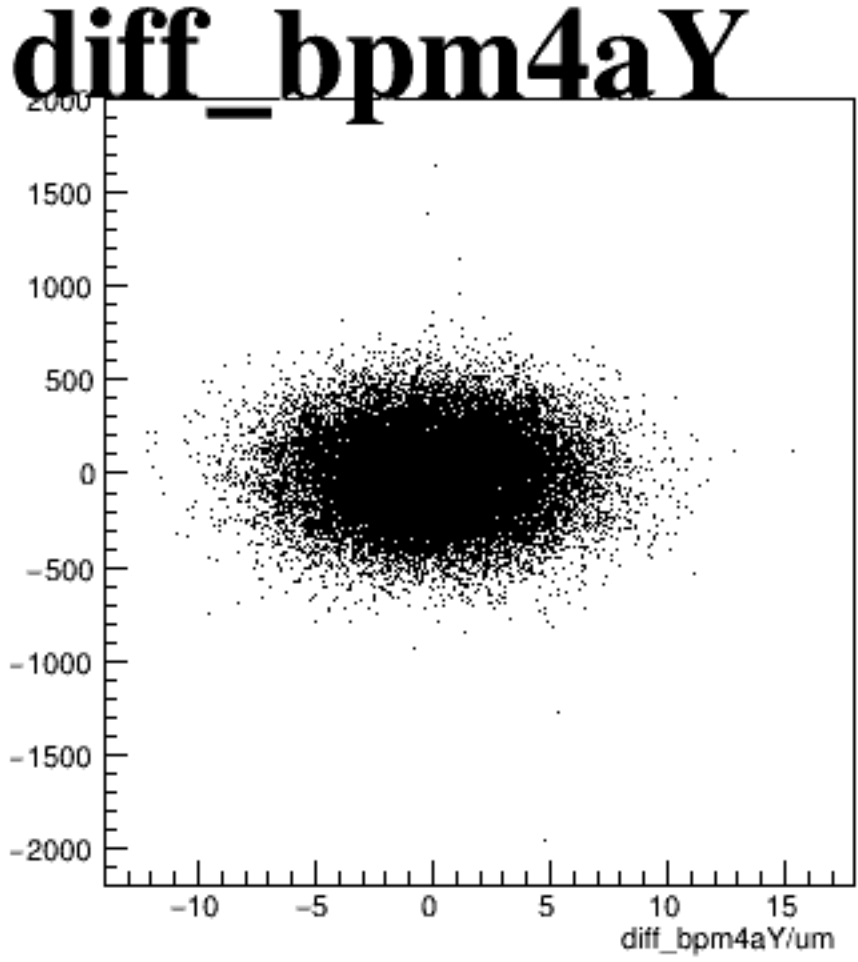
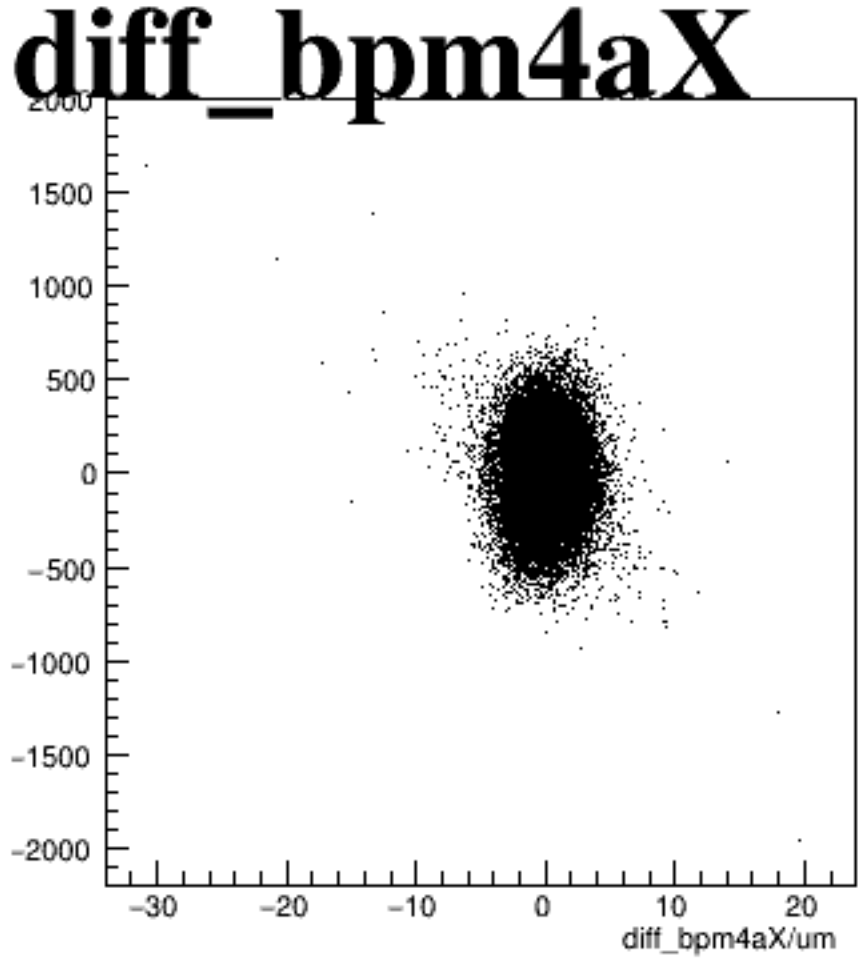
asym_sam5



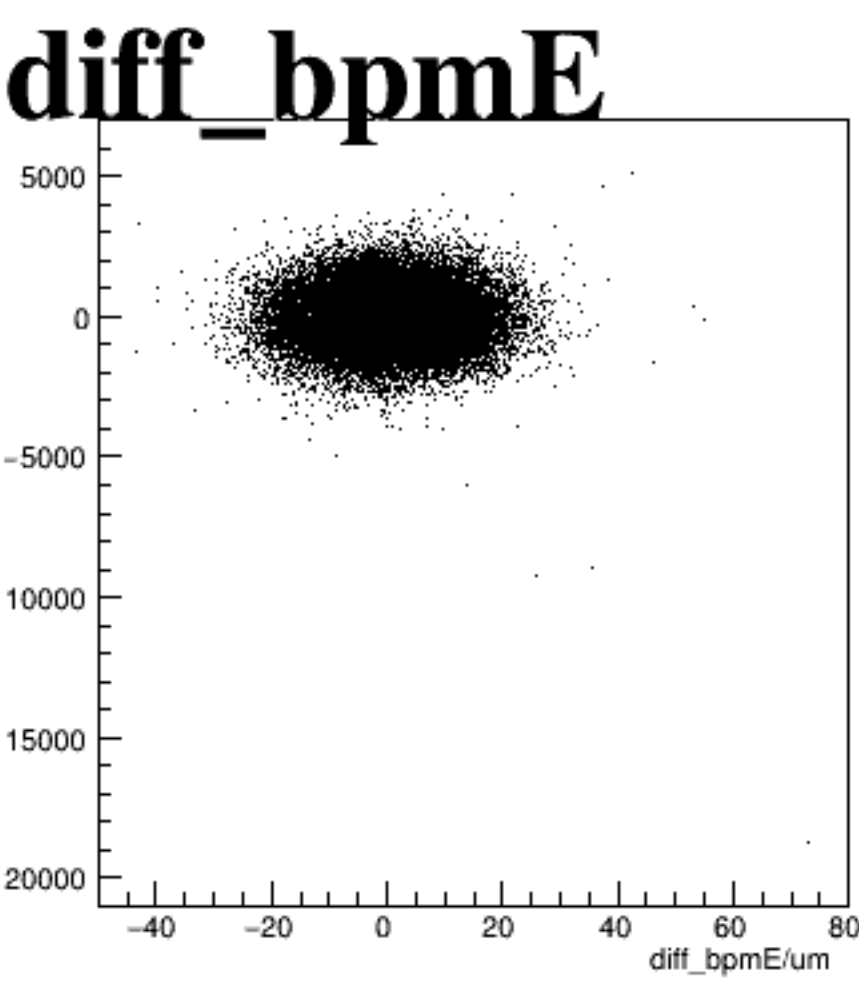
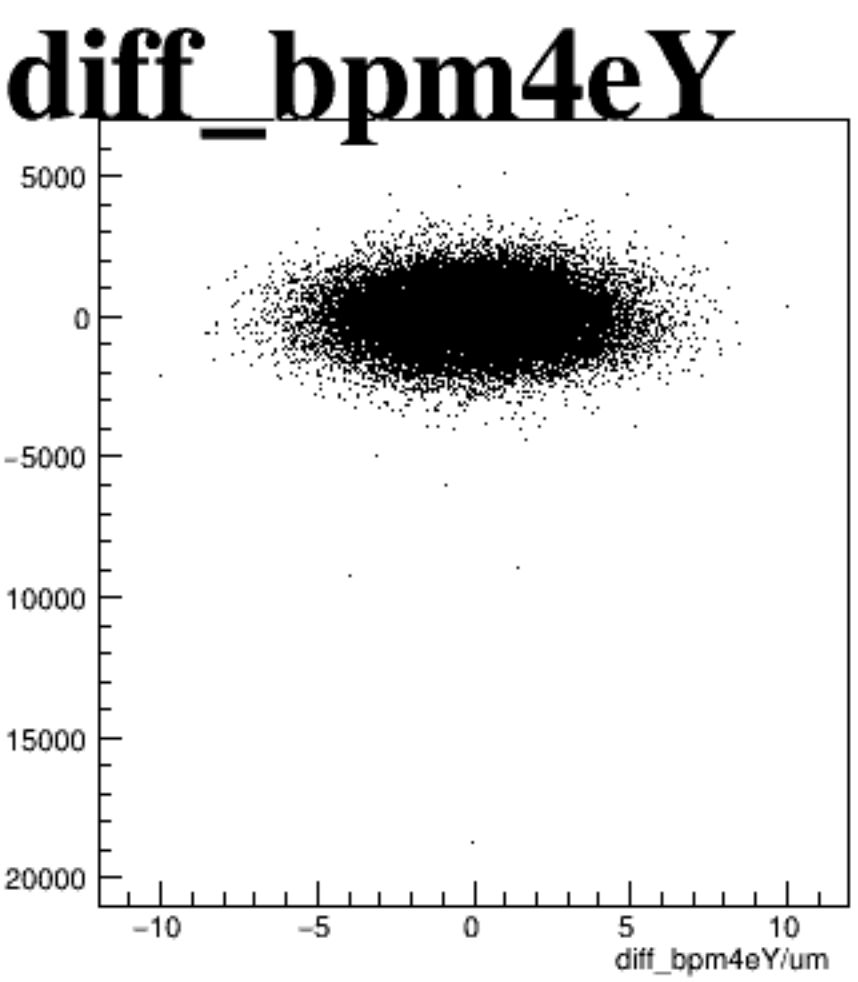
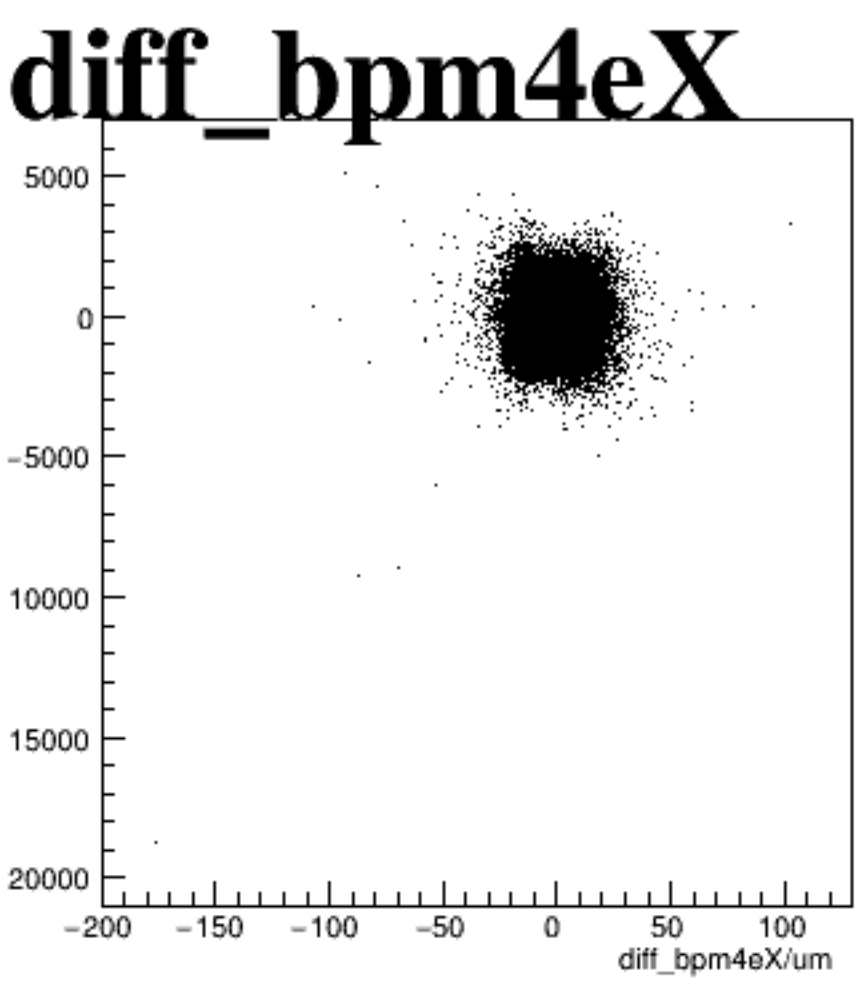
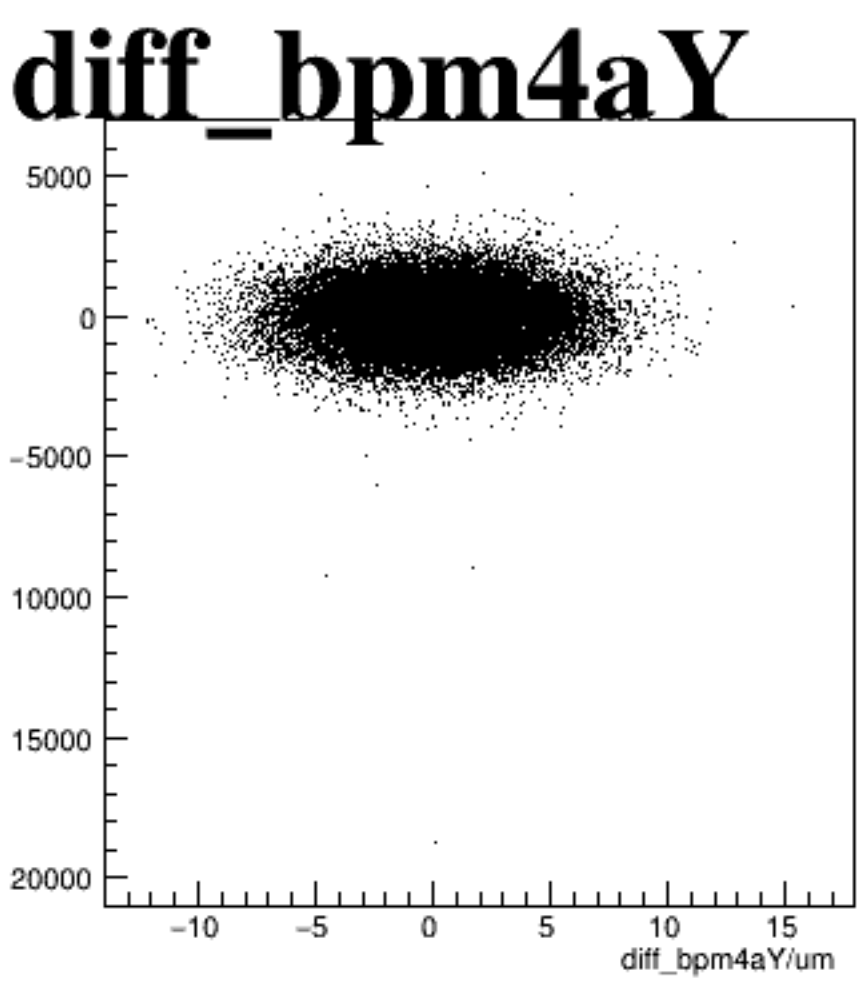
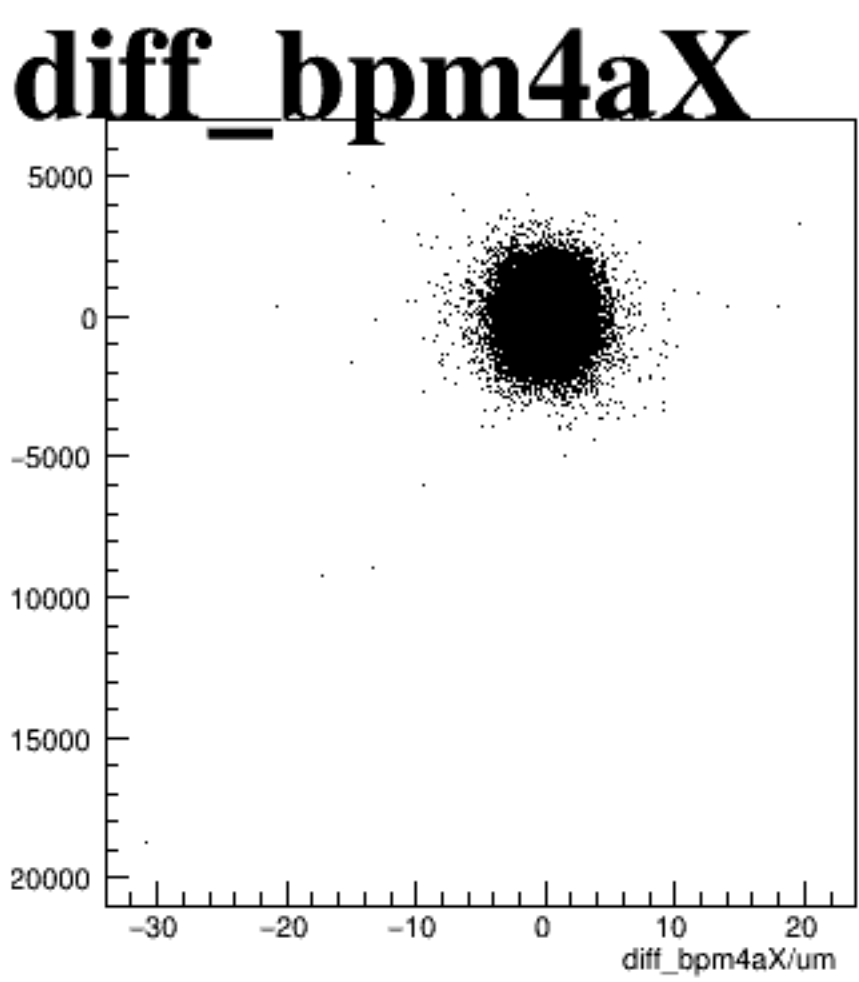
asym_sam7



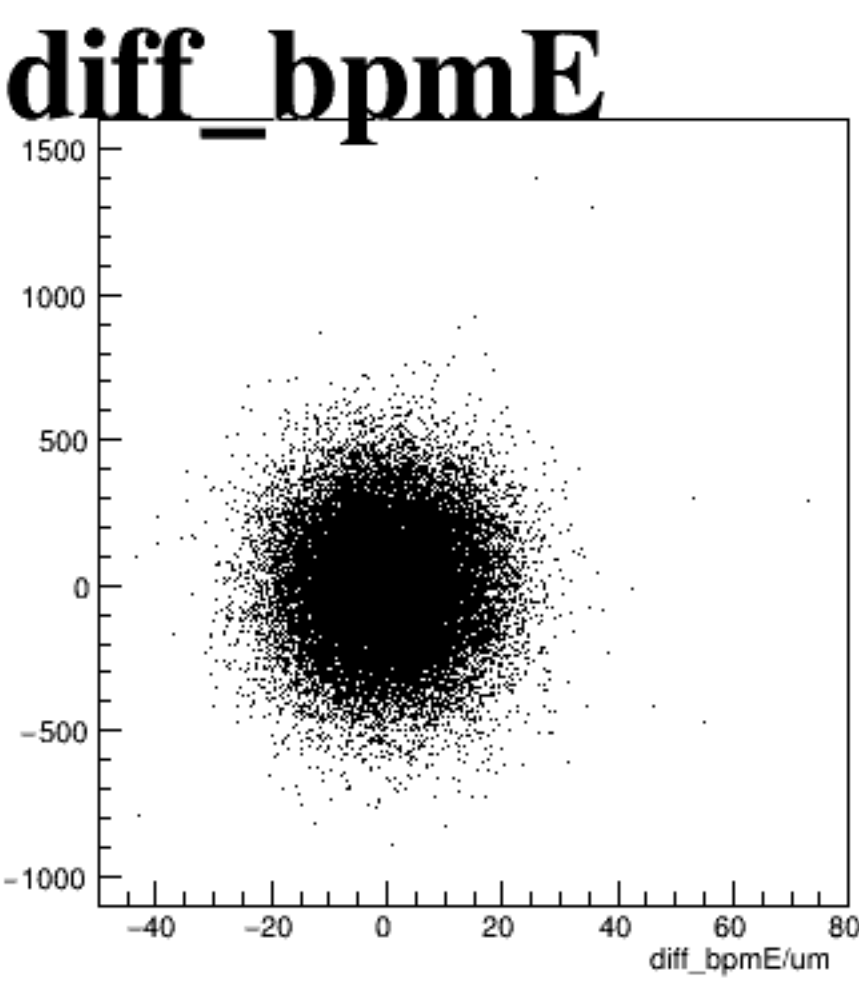
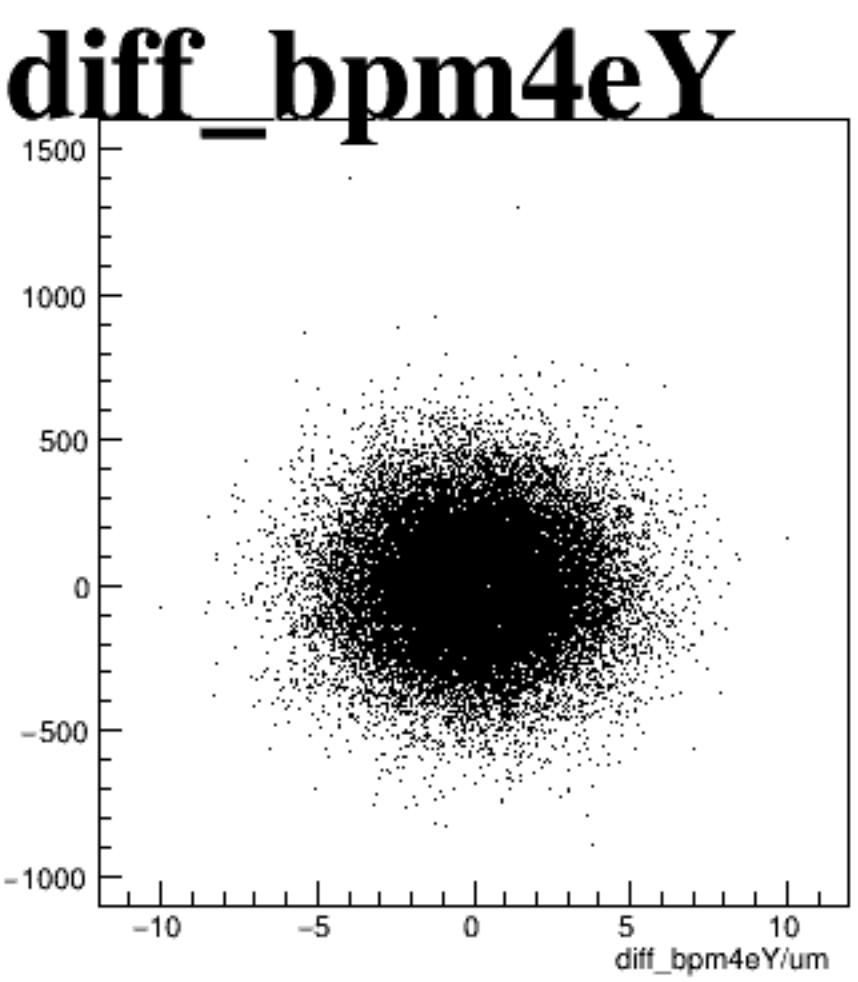
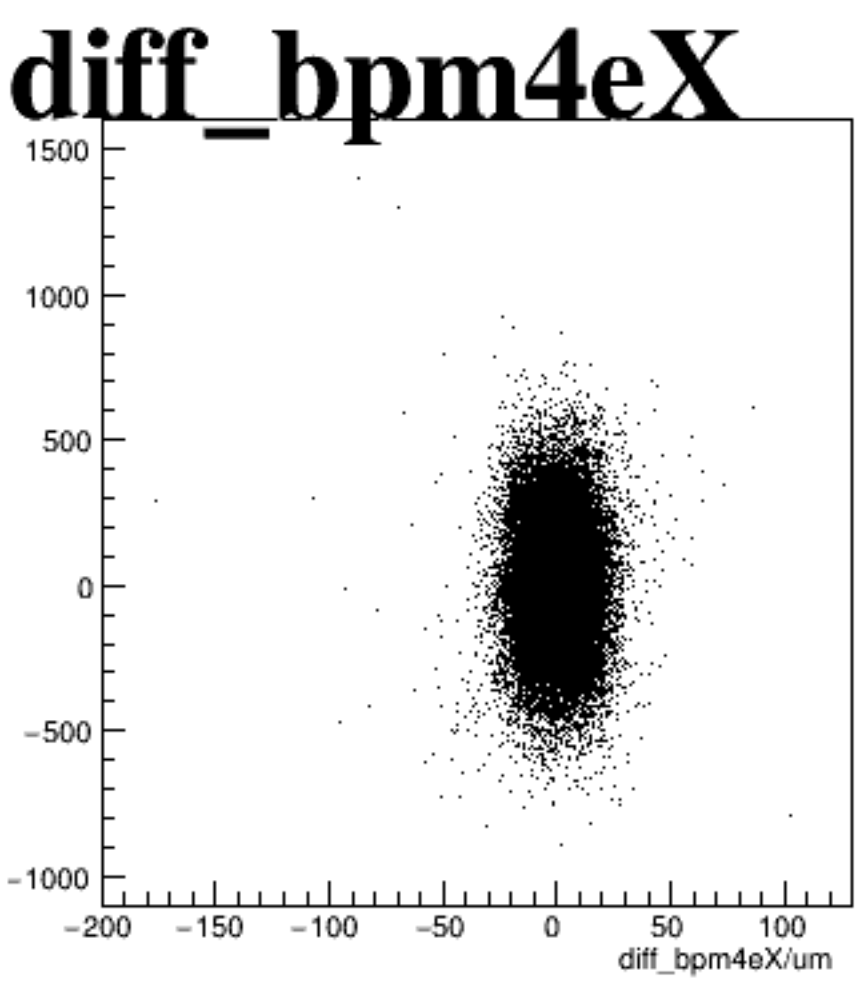
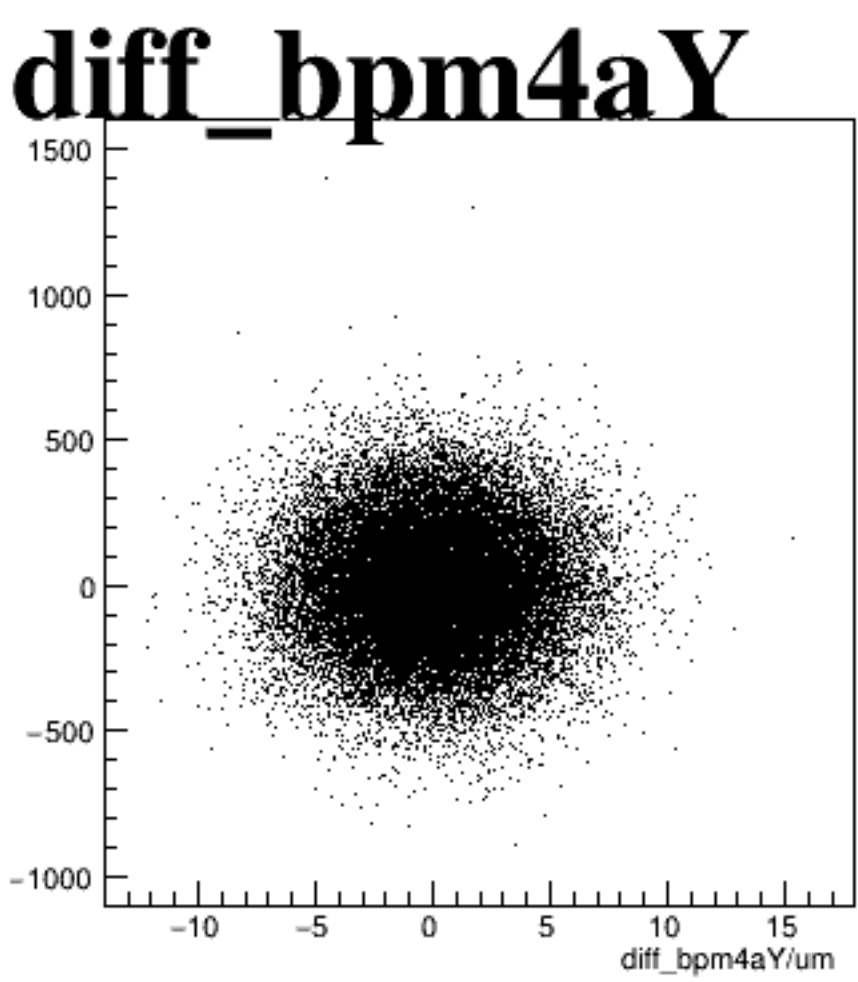
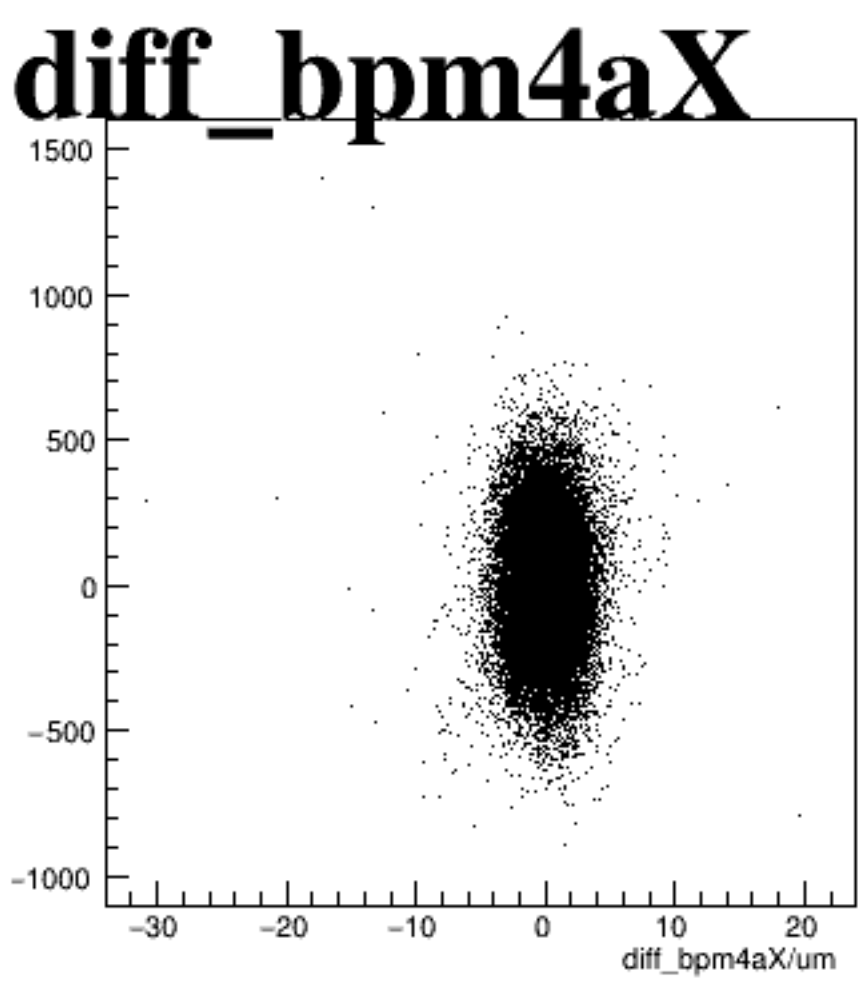
reg_asym_sam1



reg_asym_sam3



reg_asym_sam5



reg_asym_sam7

