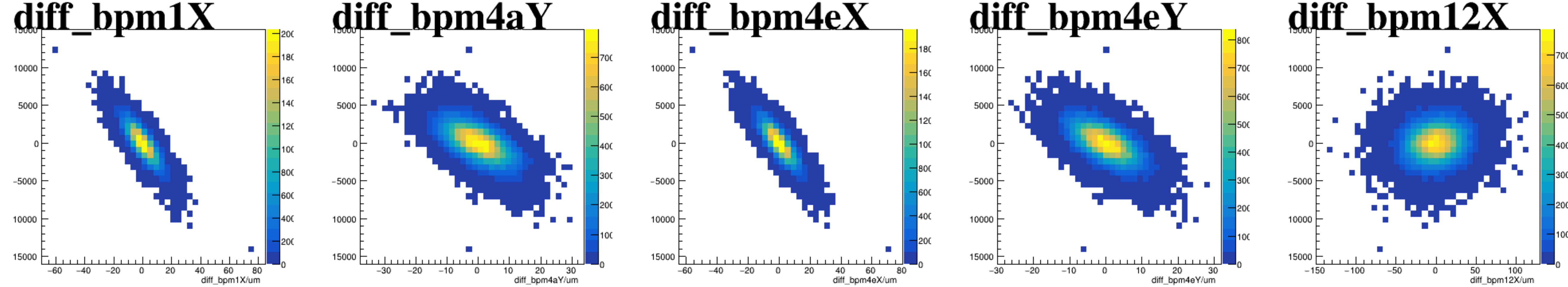
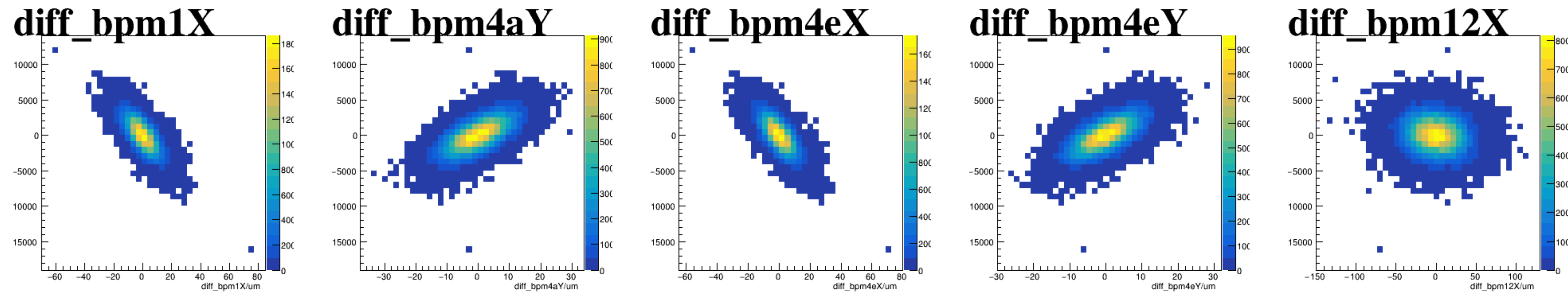


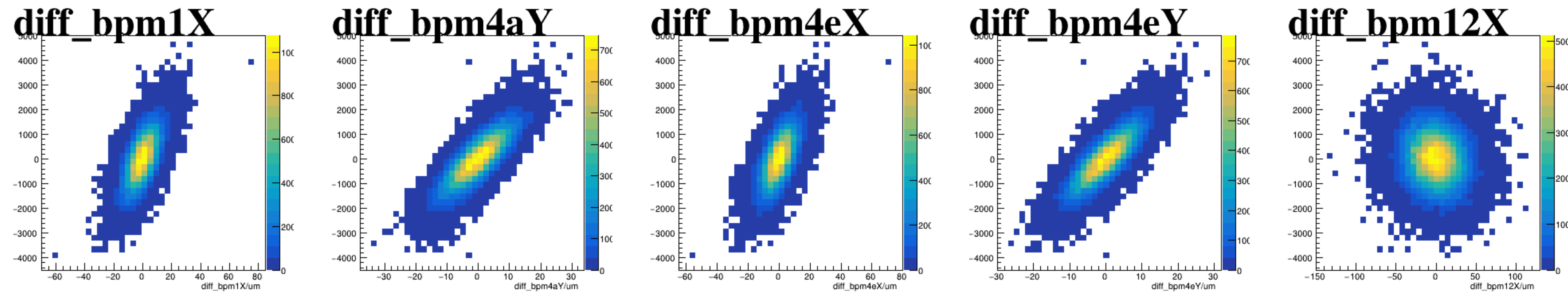
asym_sam2



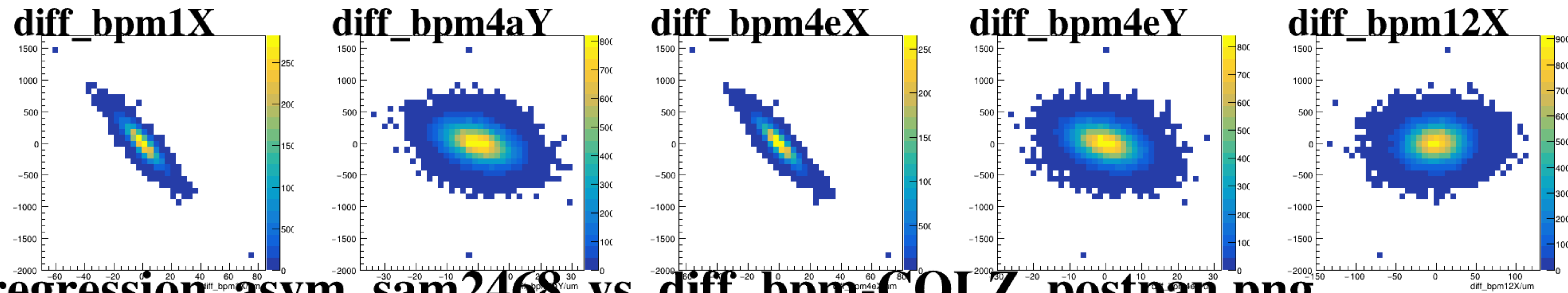
asym_sam4



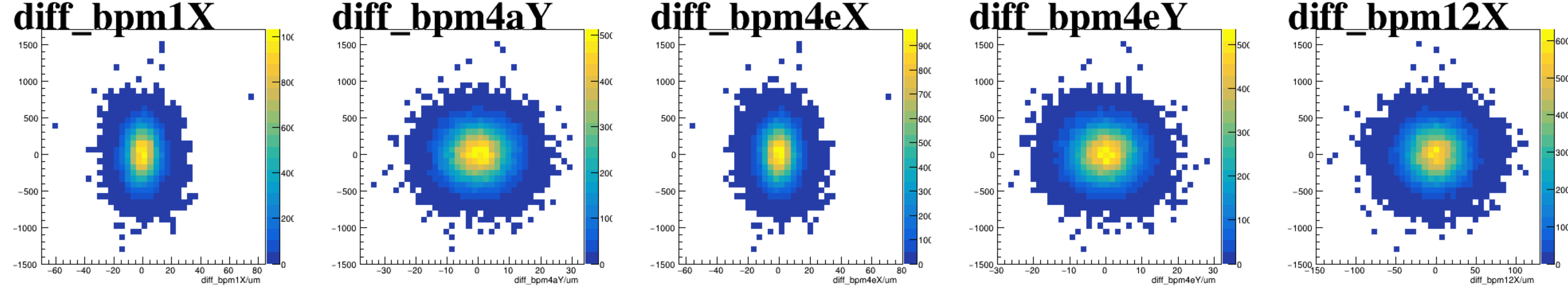
asym_sam6



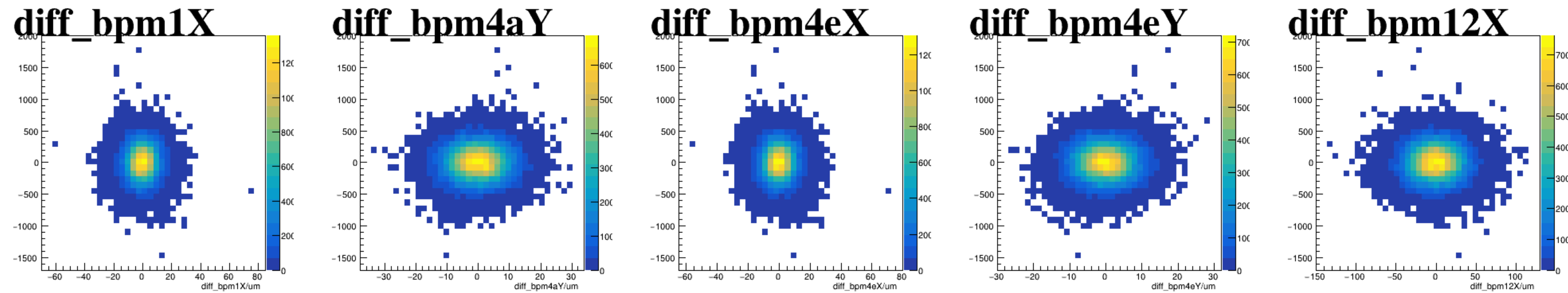
asym_sam8



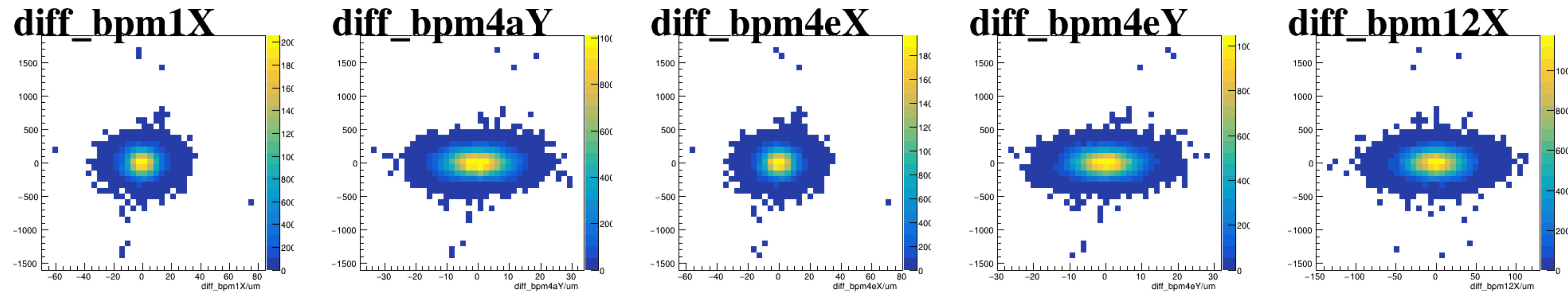
reg_asym_sam2



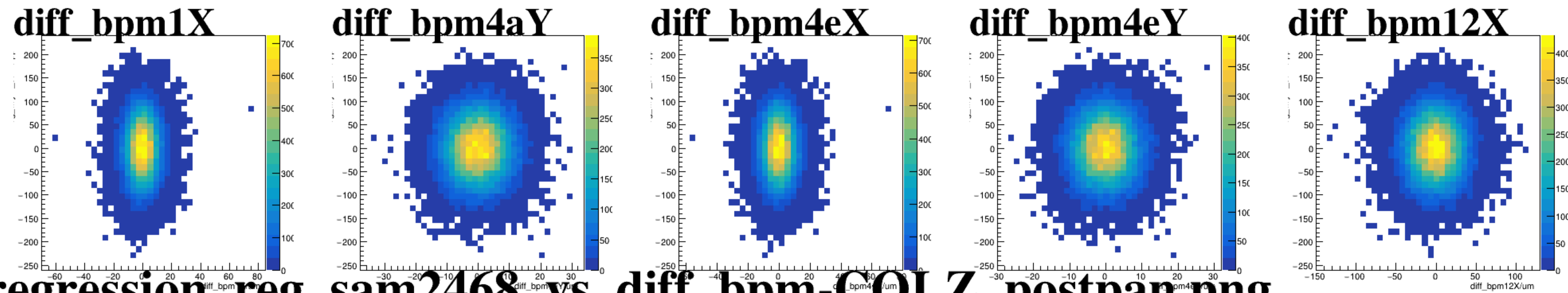
reg_asym_sam4



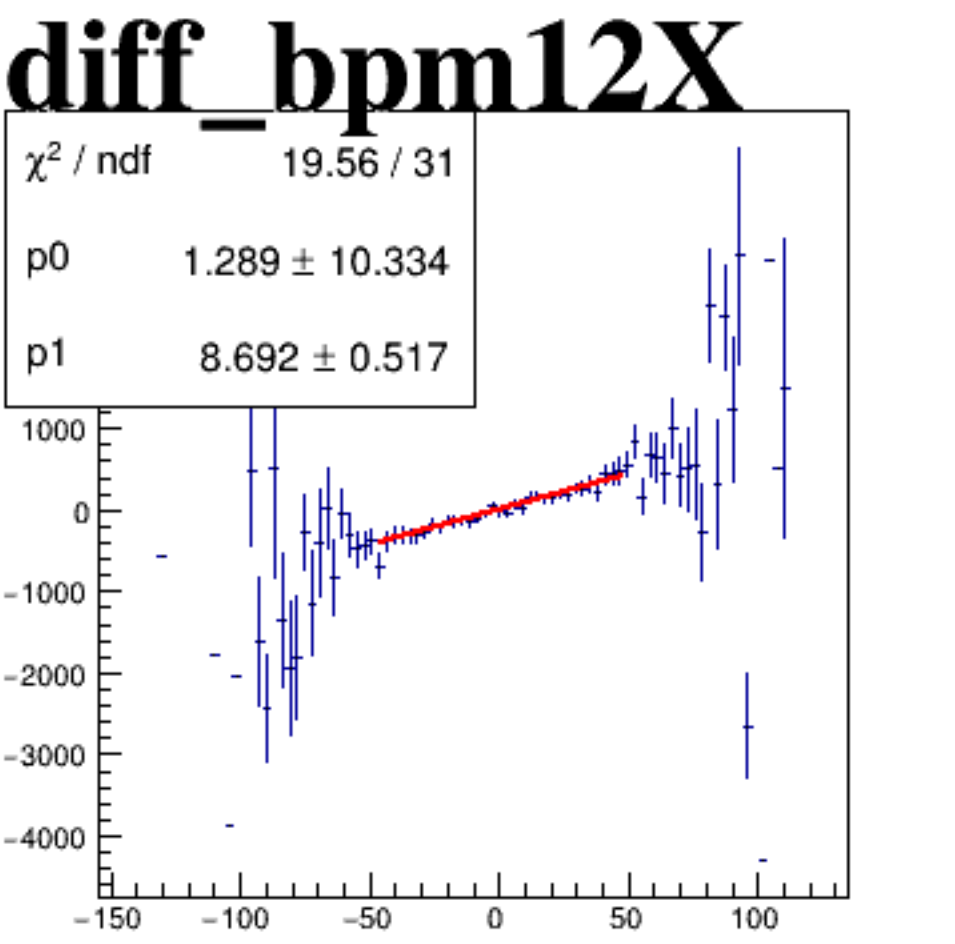
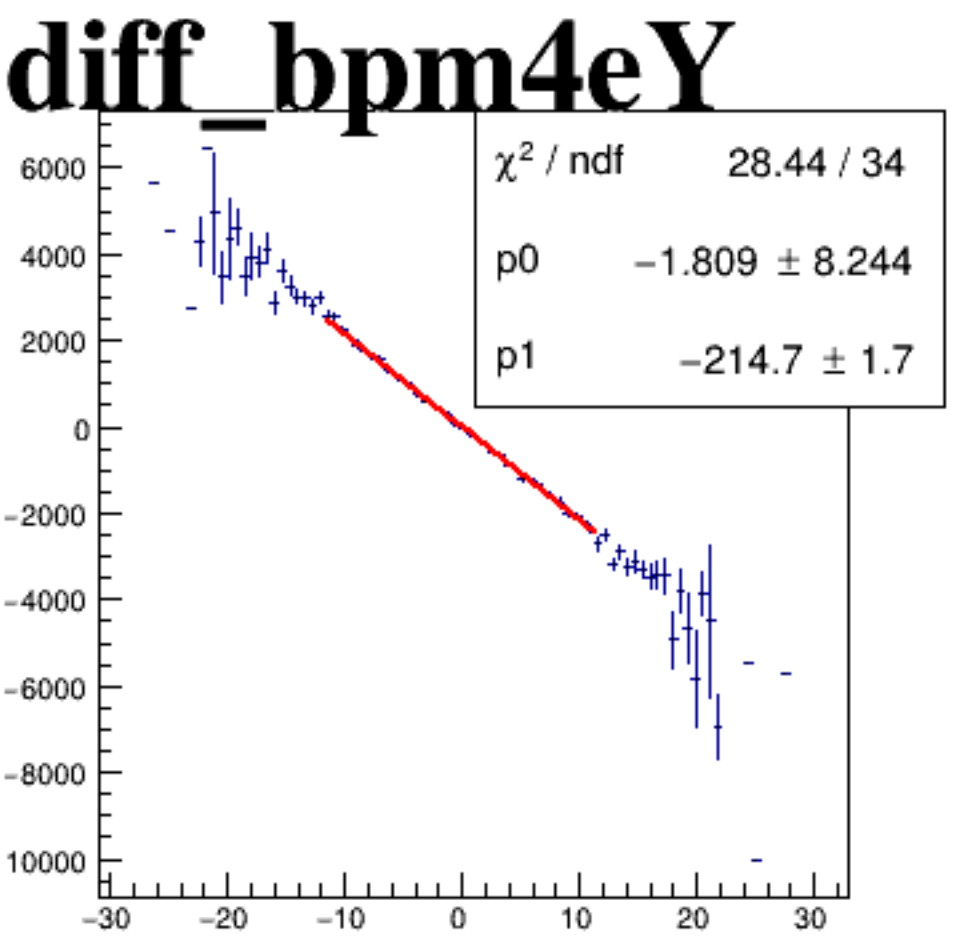
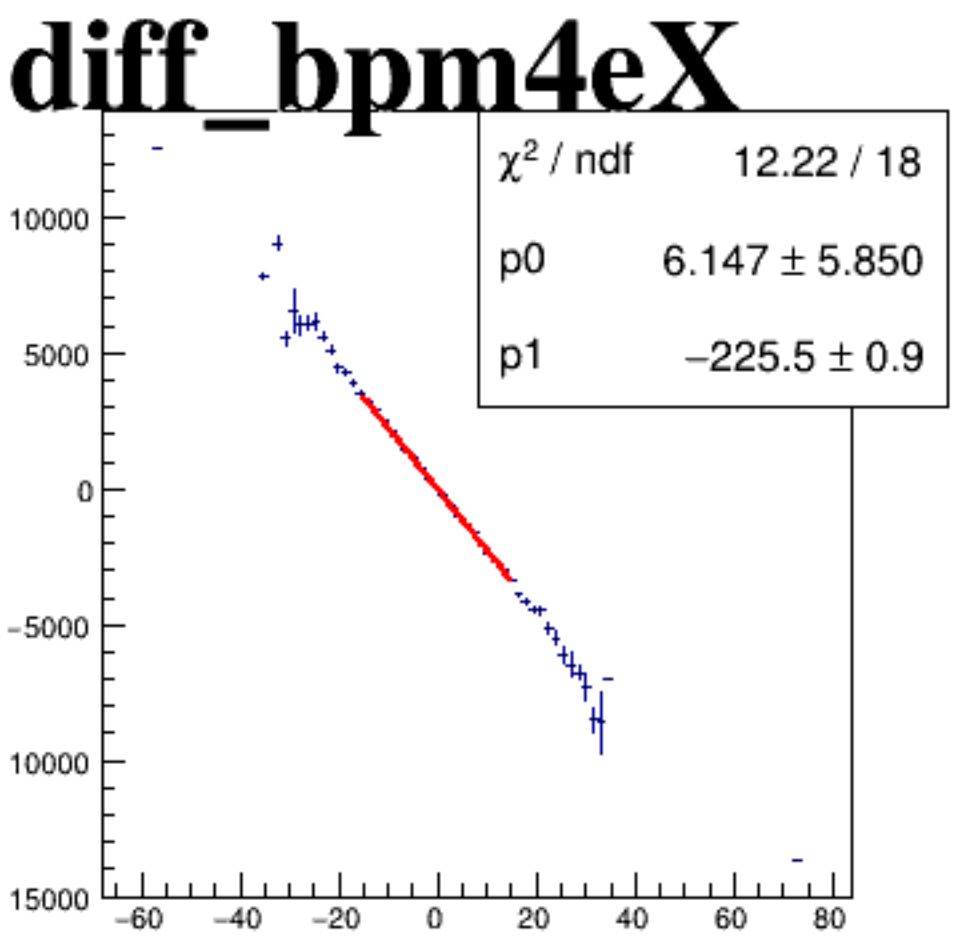
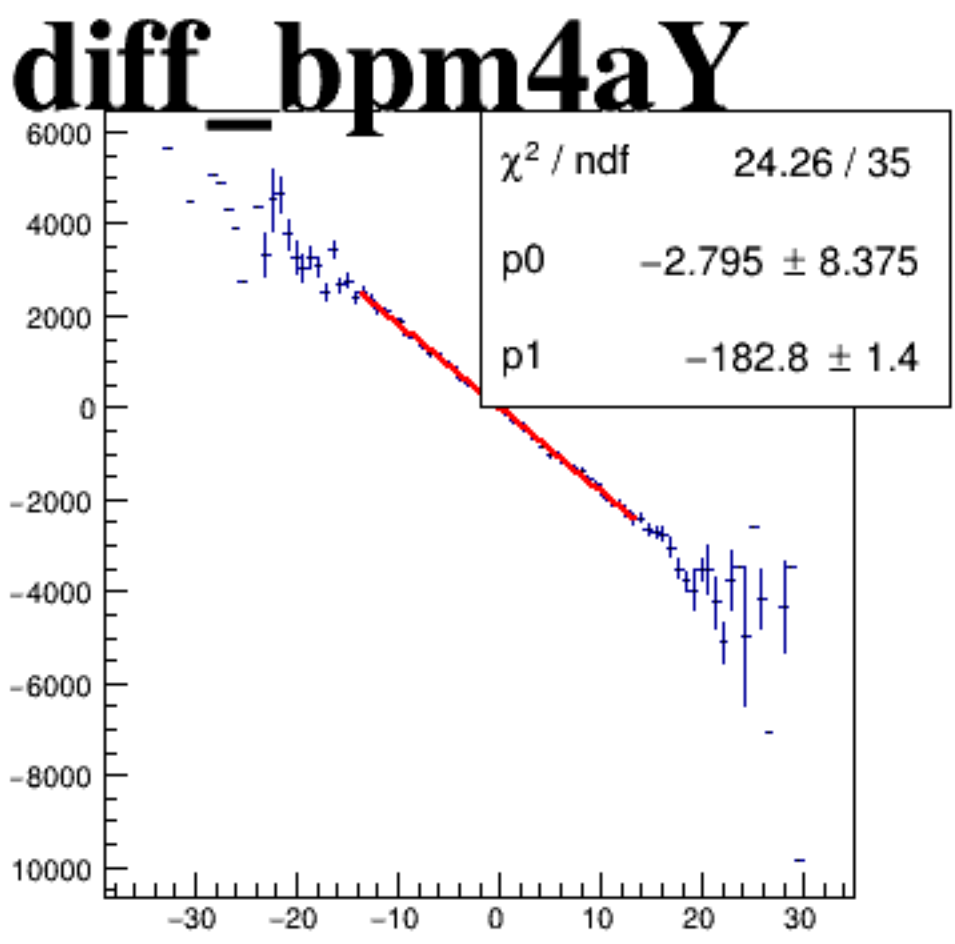
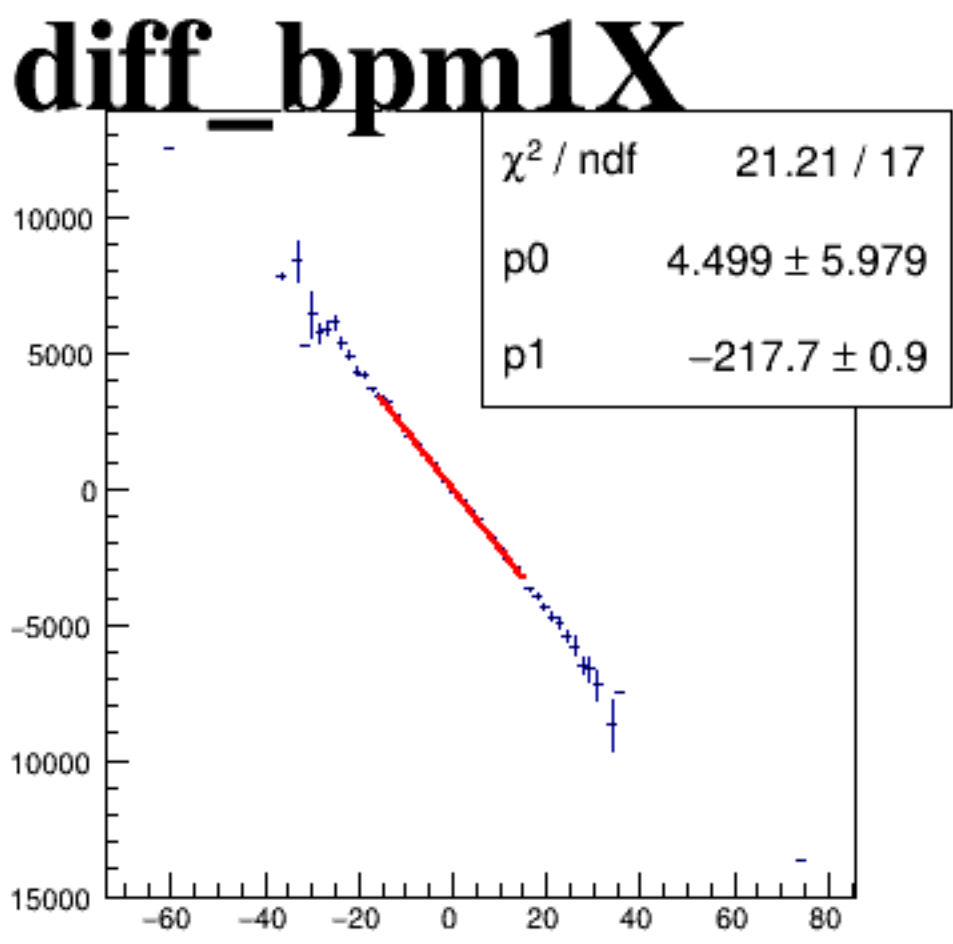
reg_asym_sam6



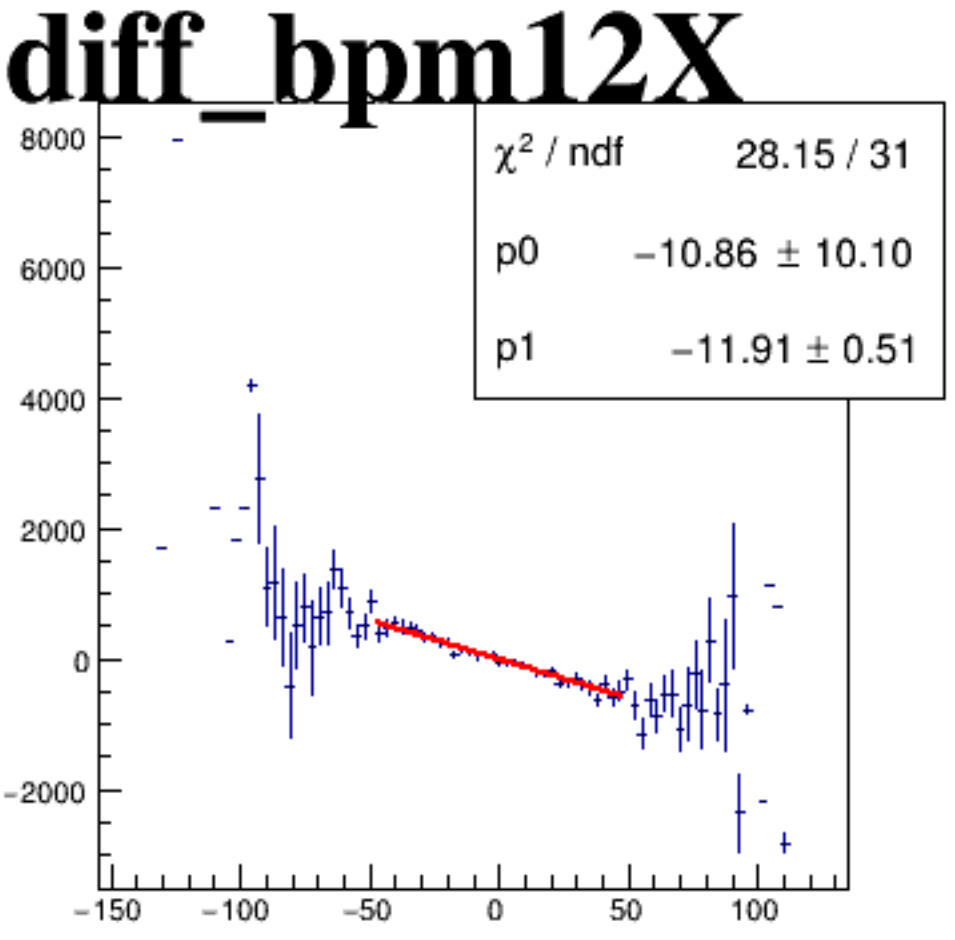
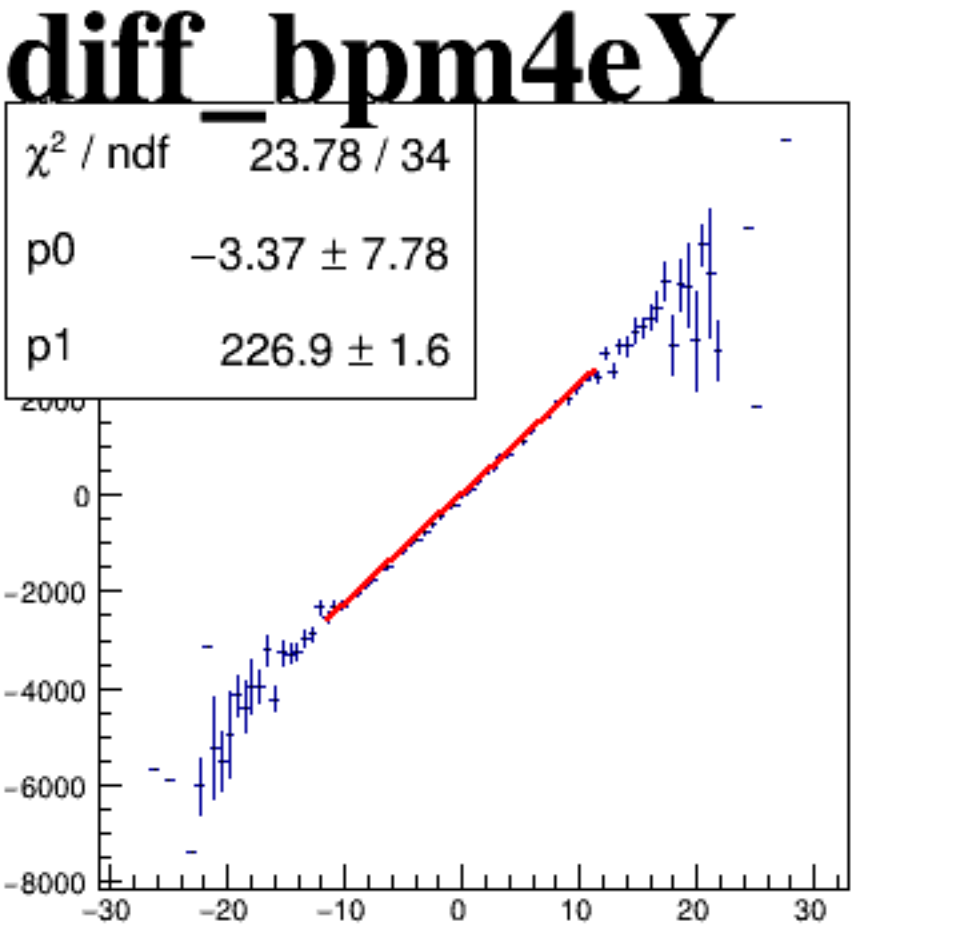
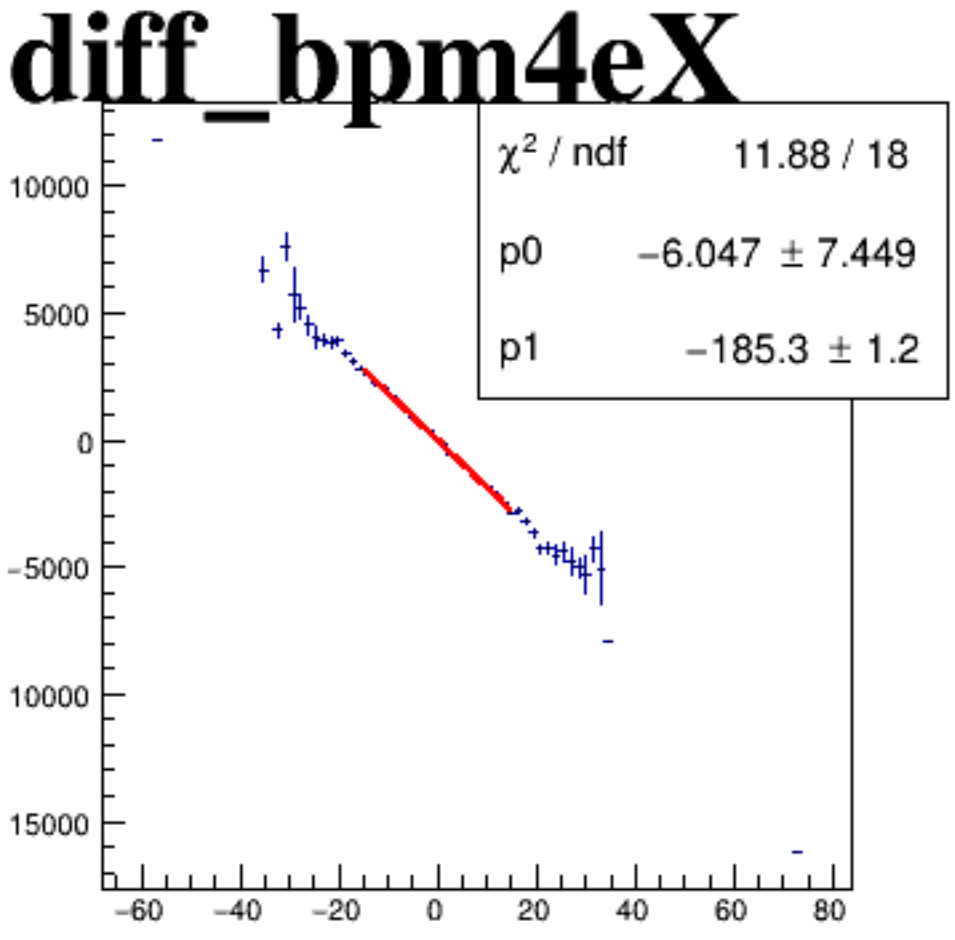
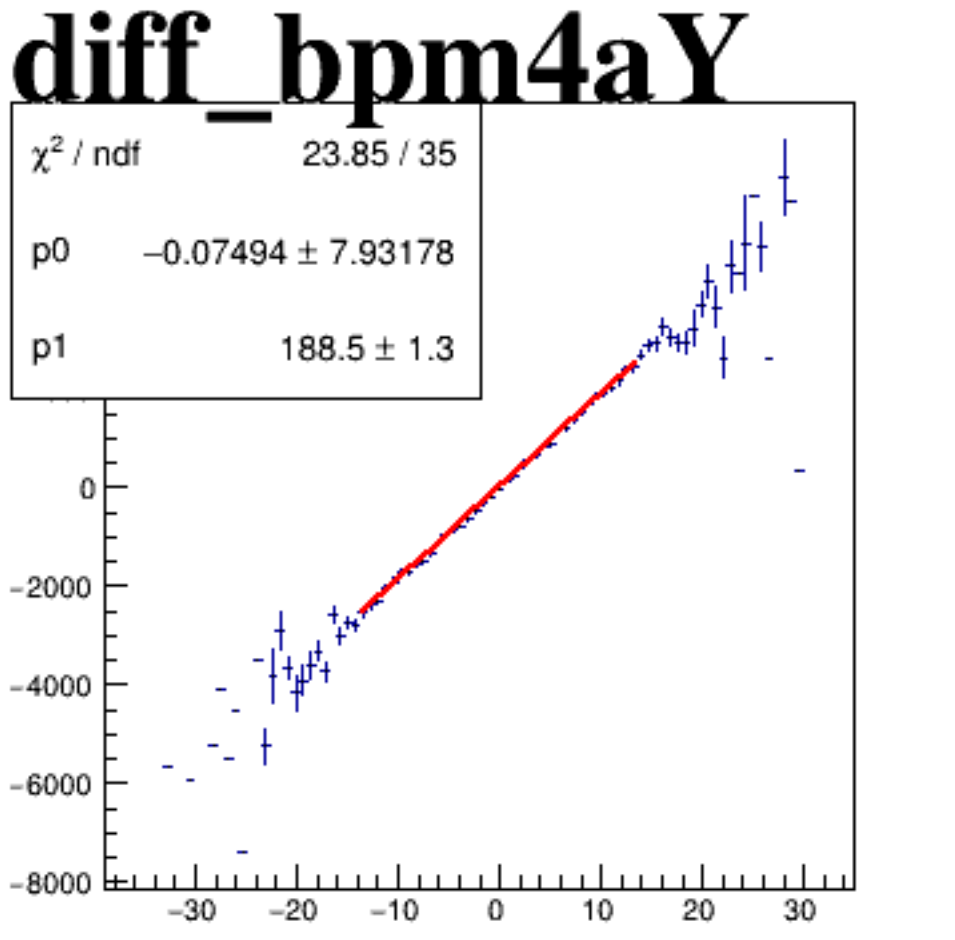
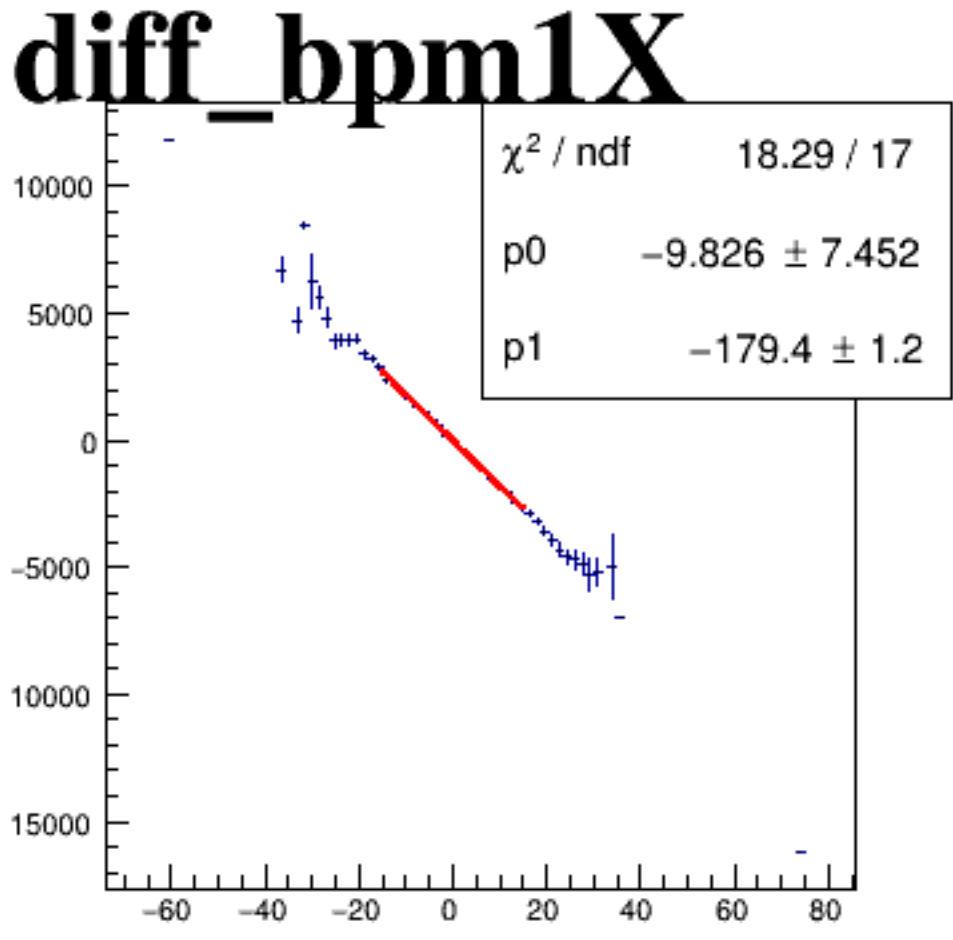
reg_asym_sam8



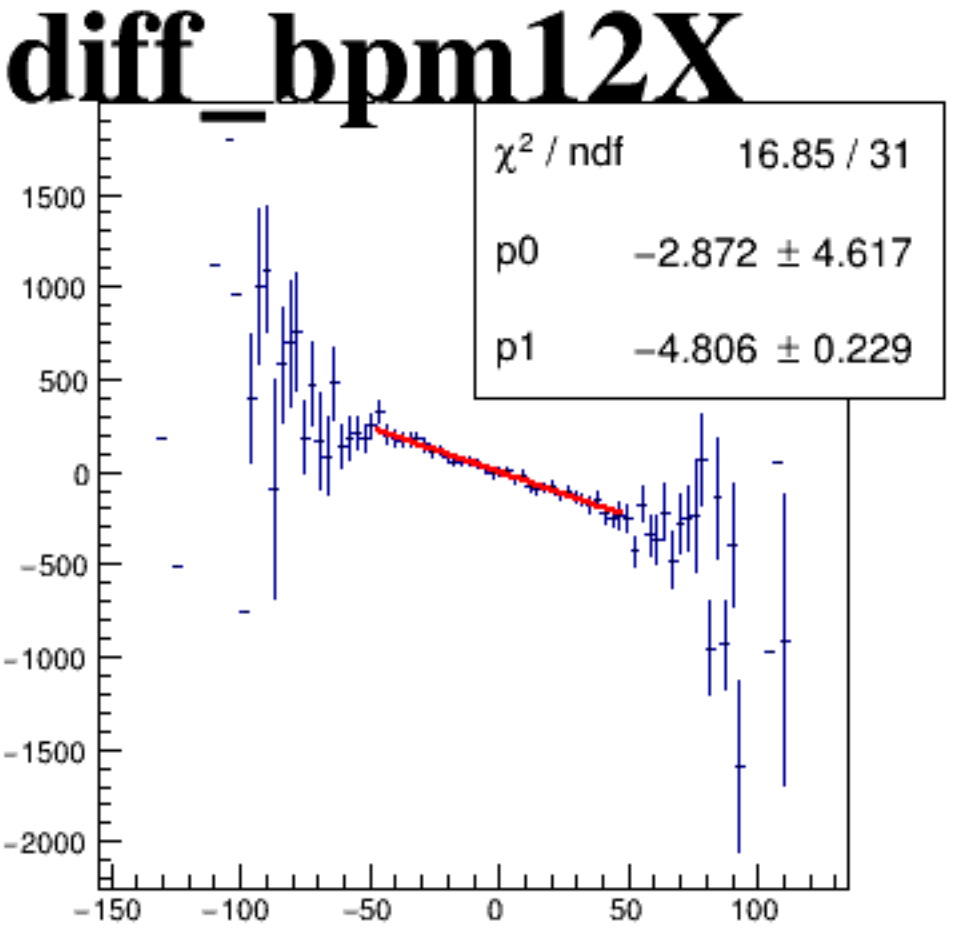
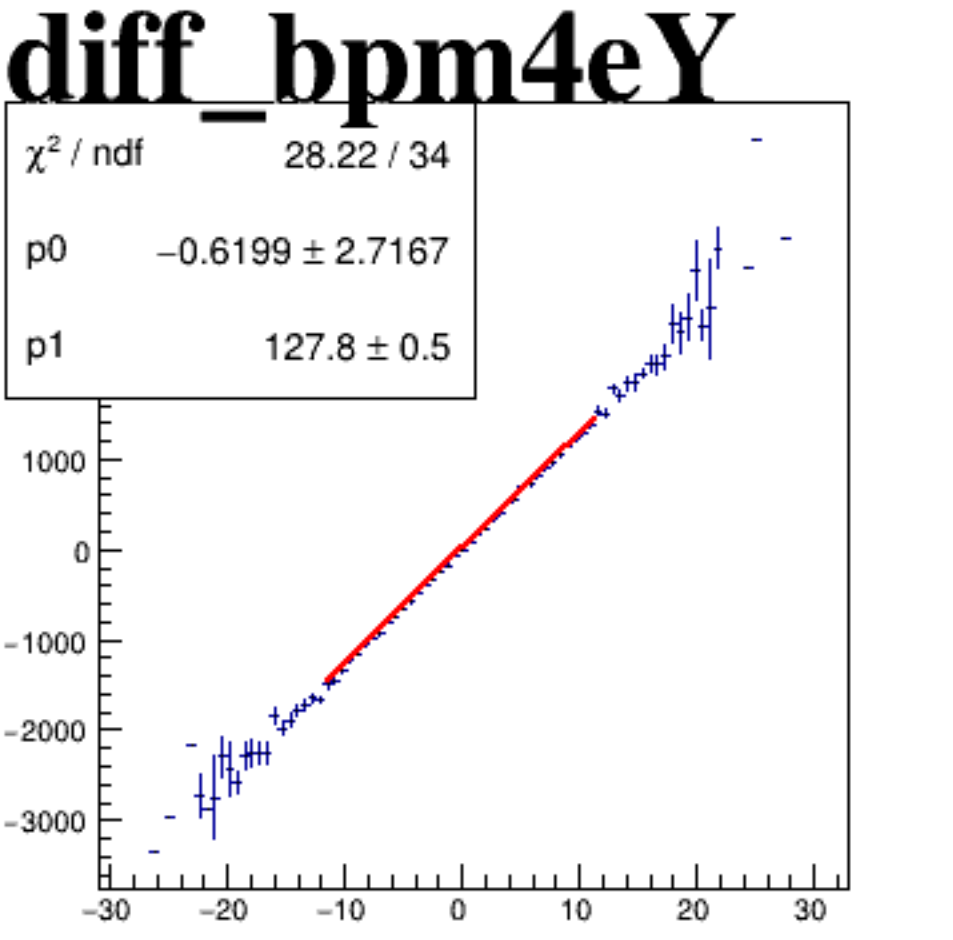
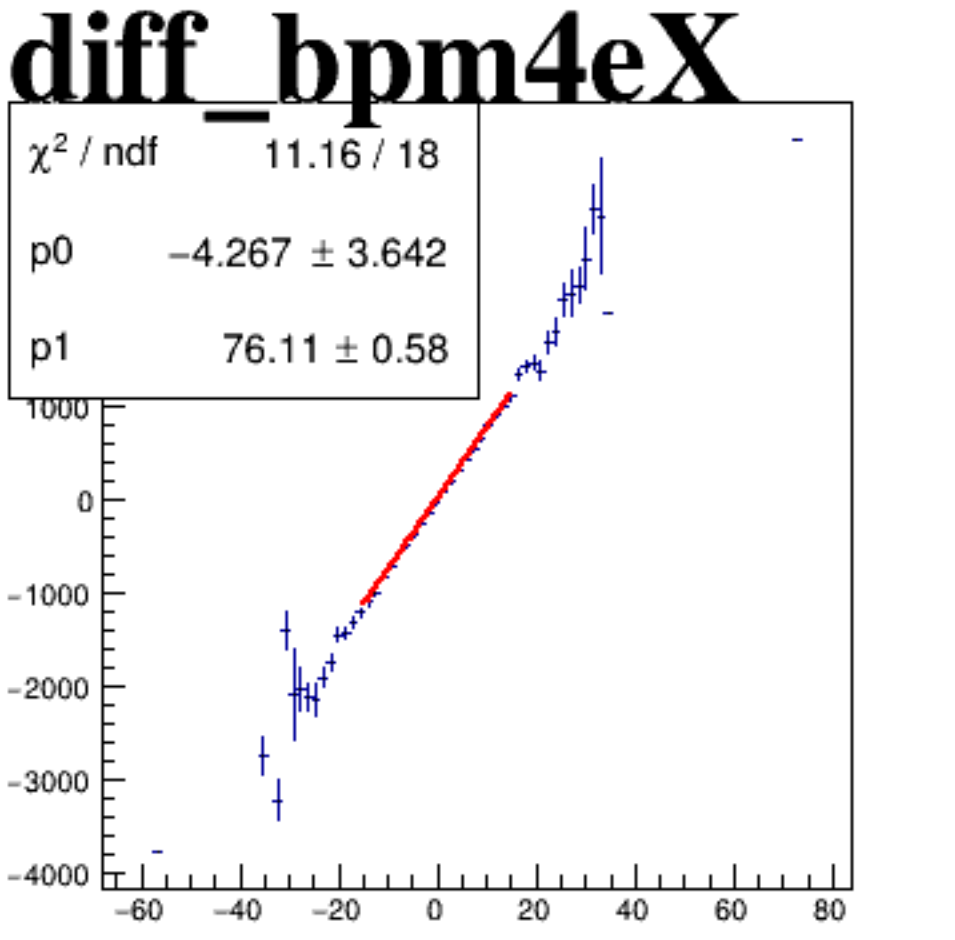
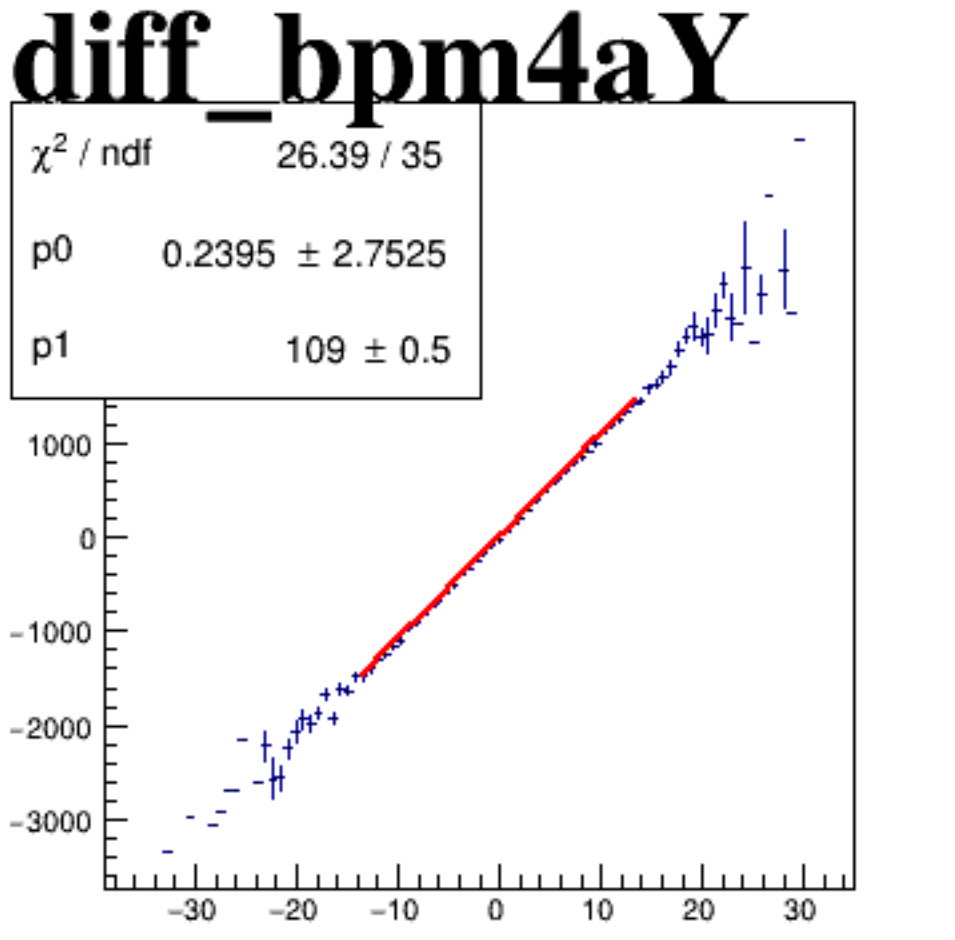
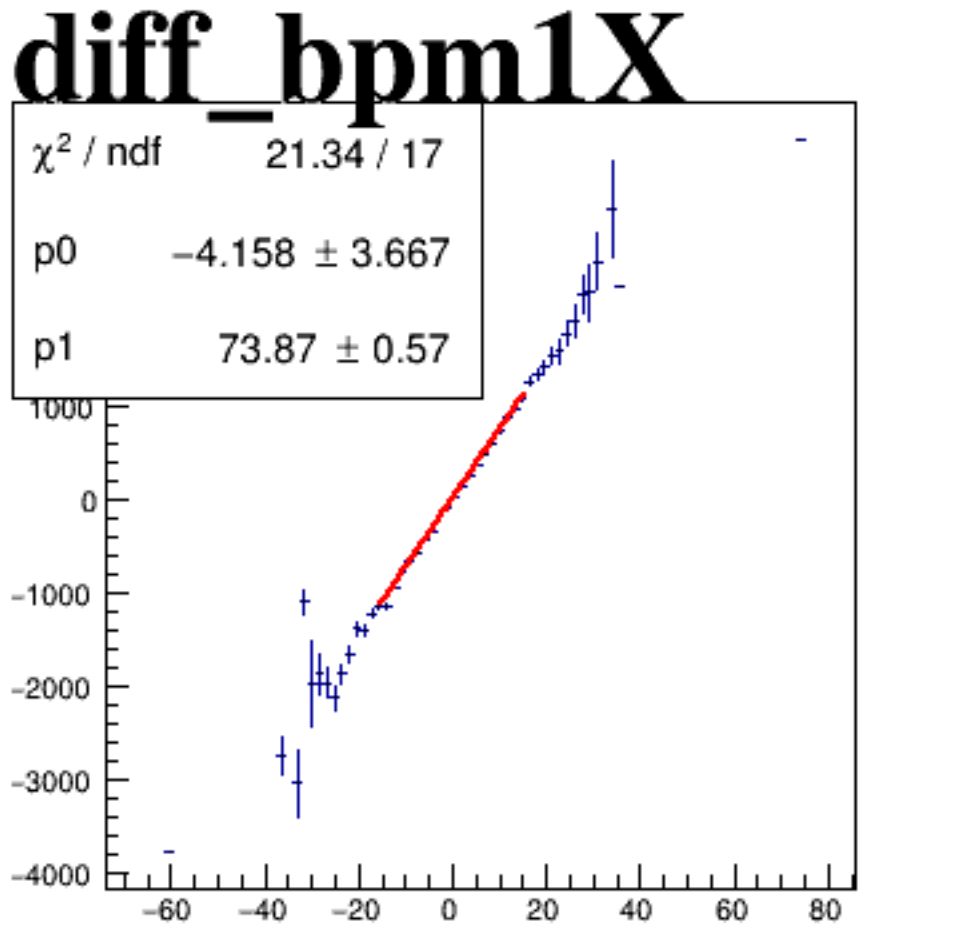
asym_sam2



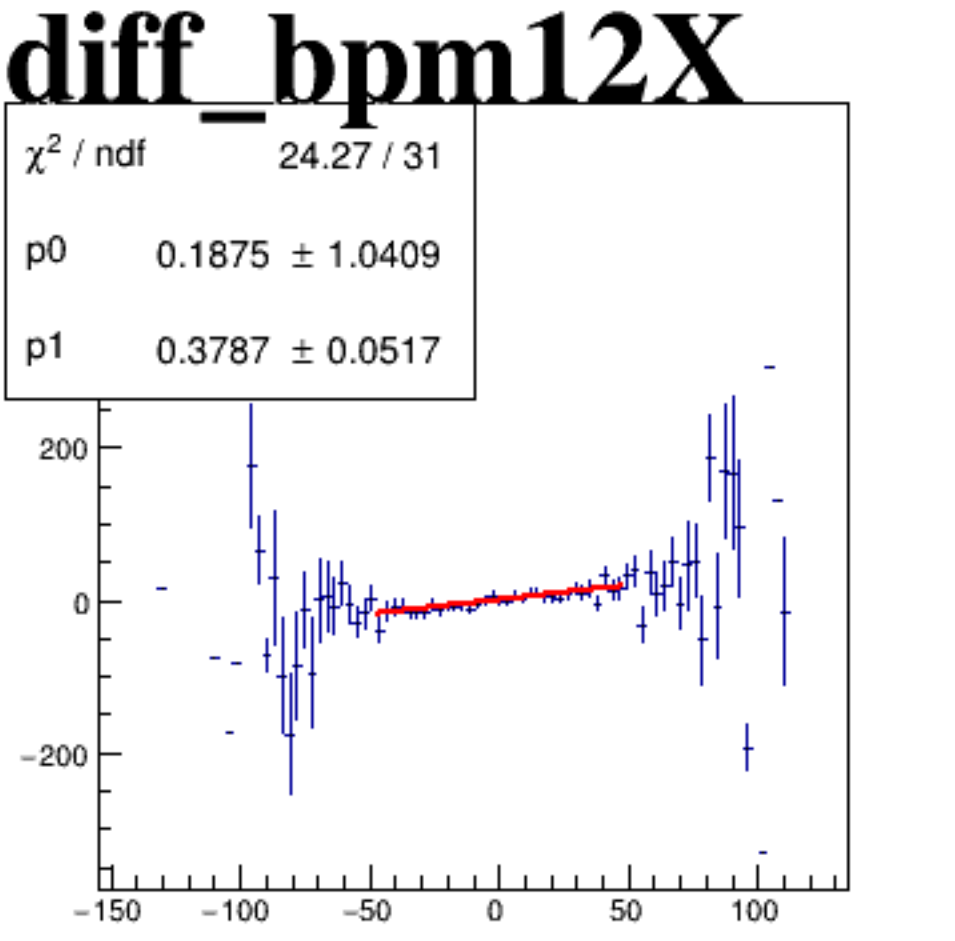
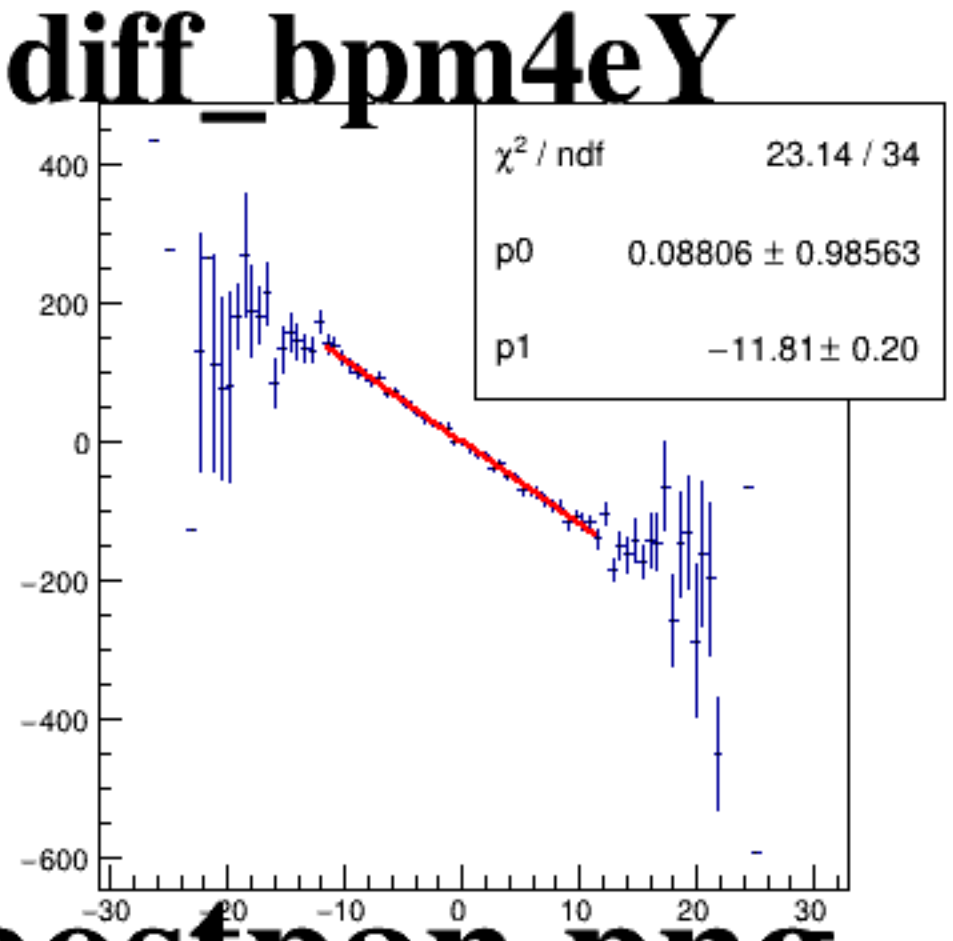
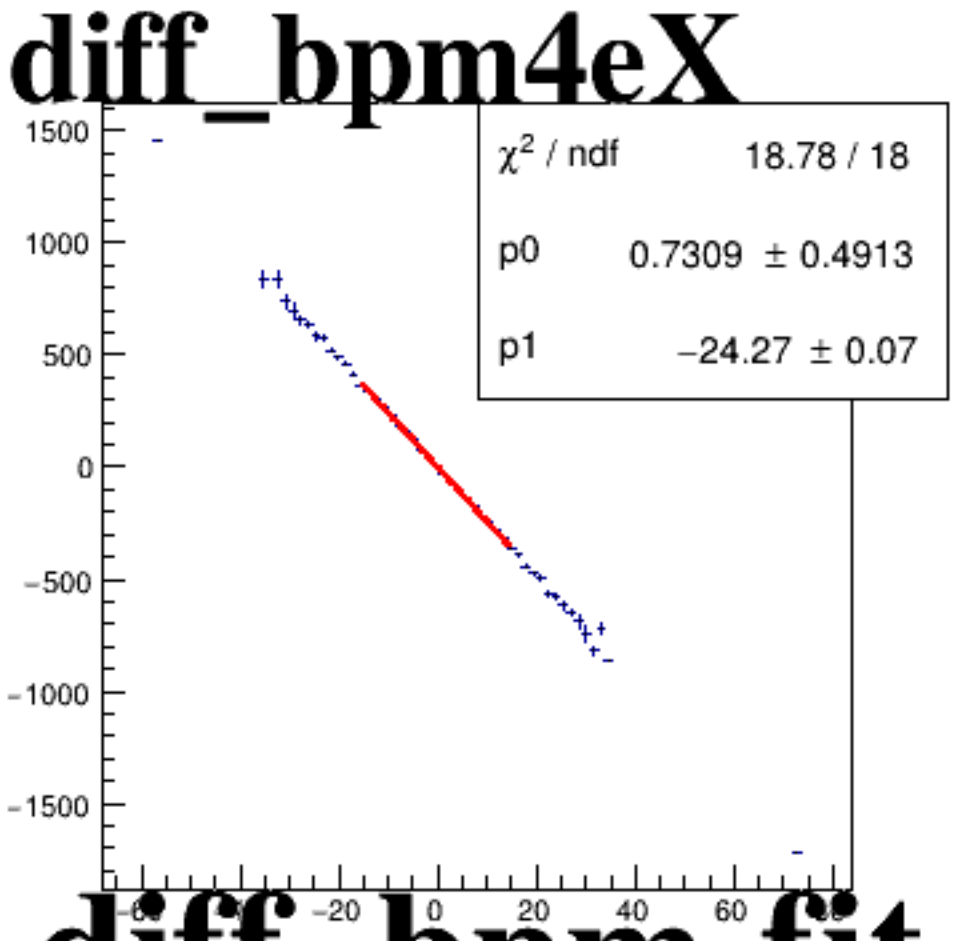
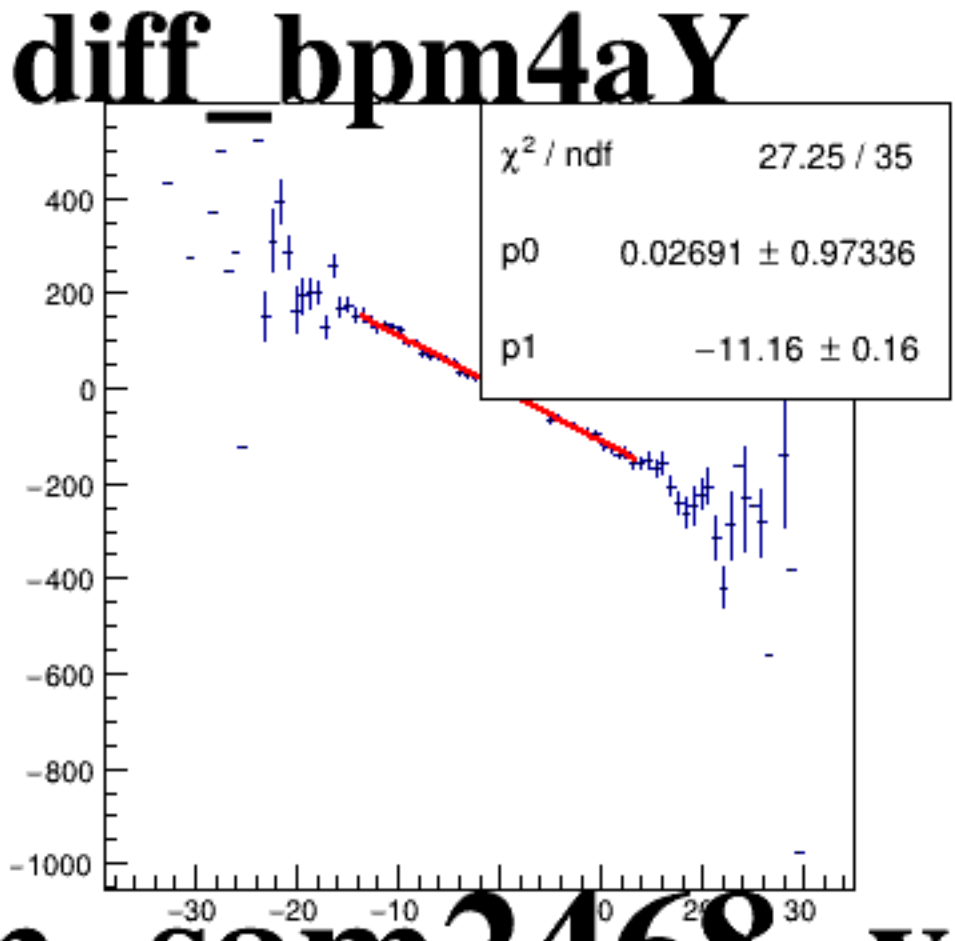
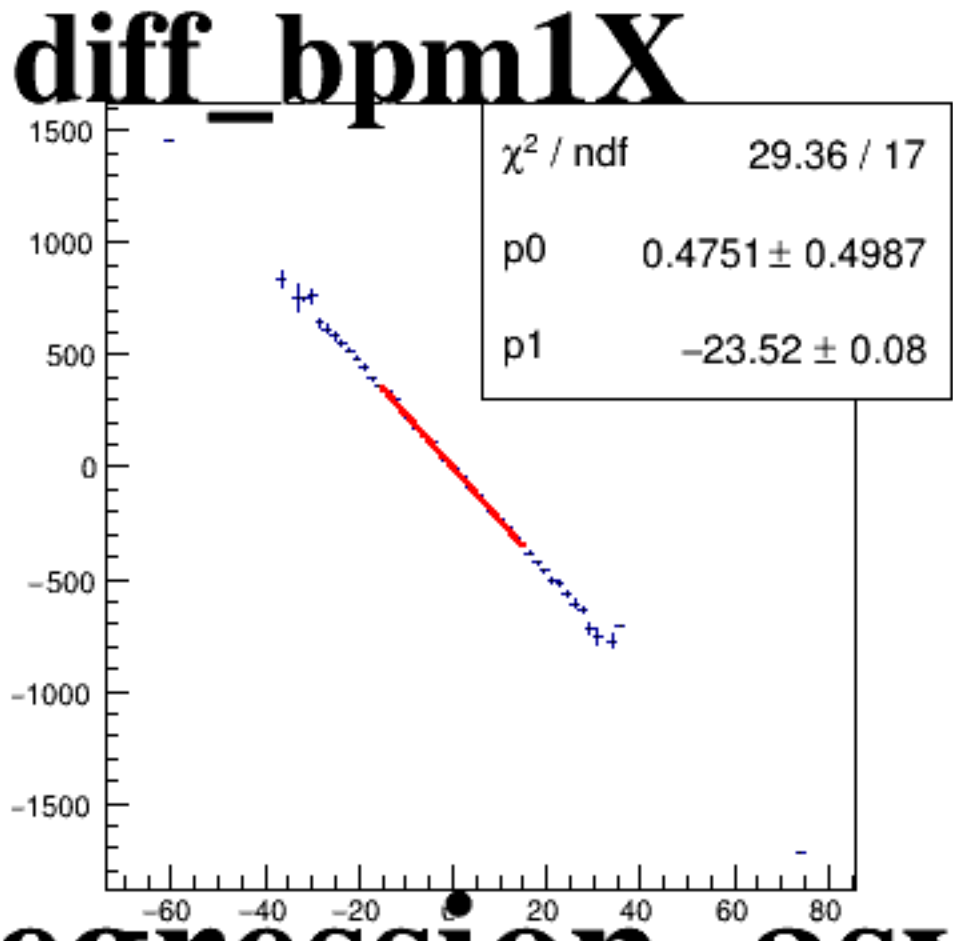
asym_sam4



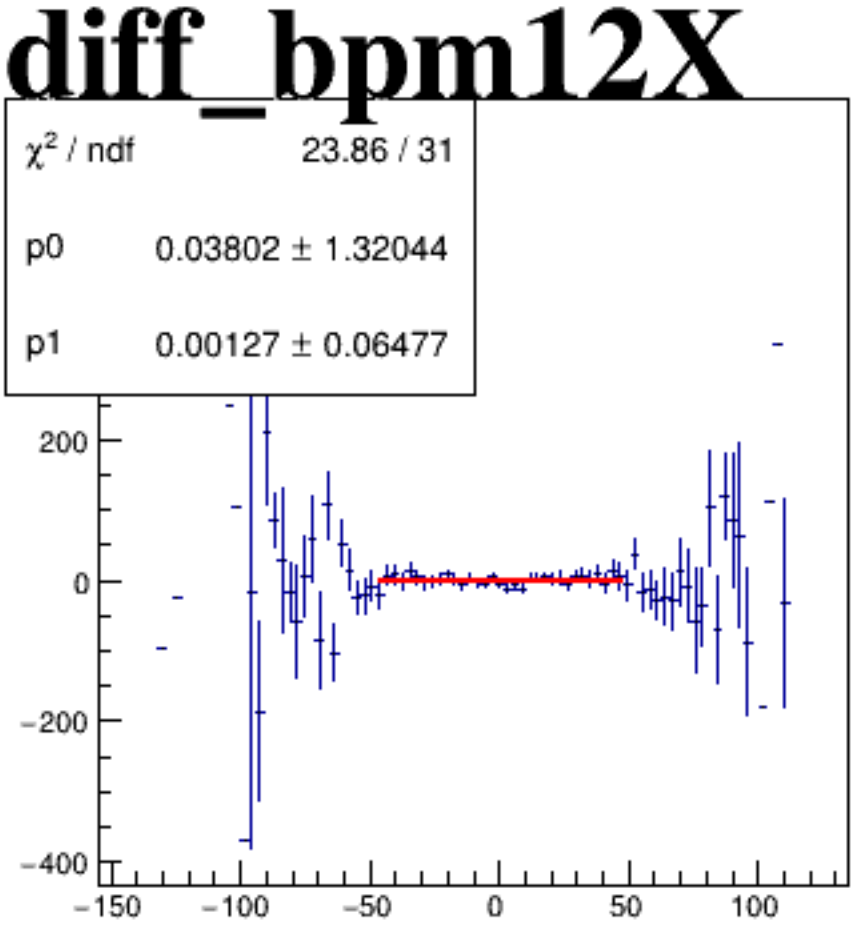
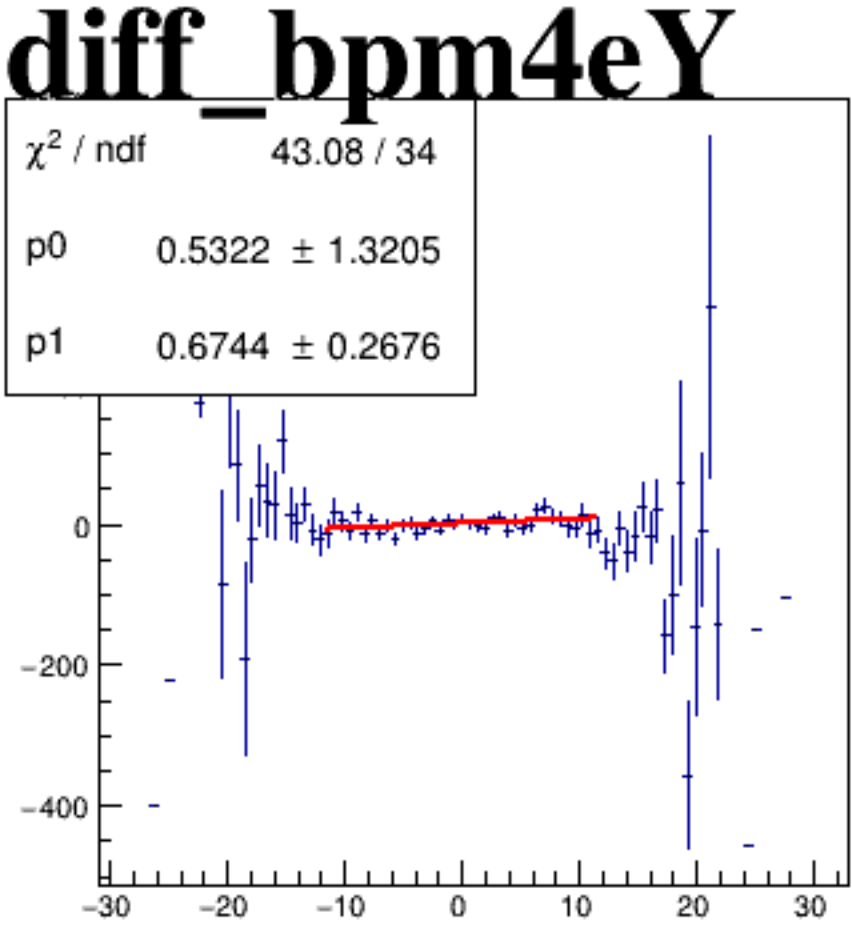
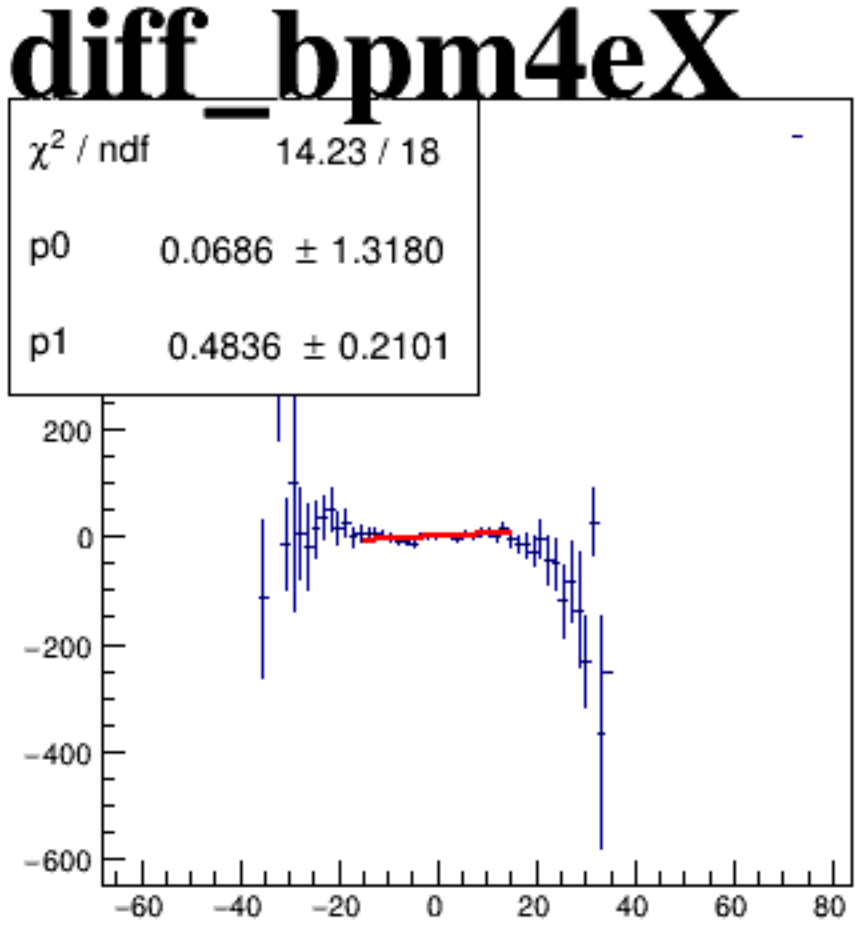
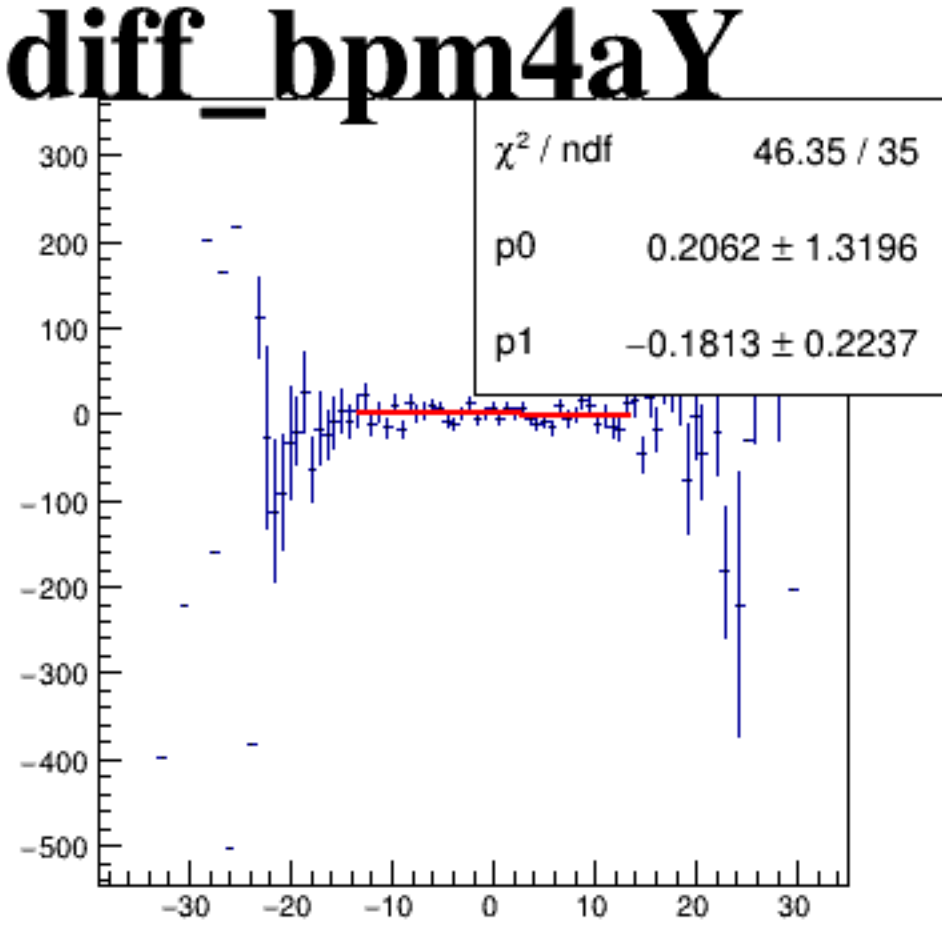
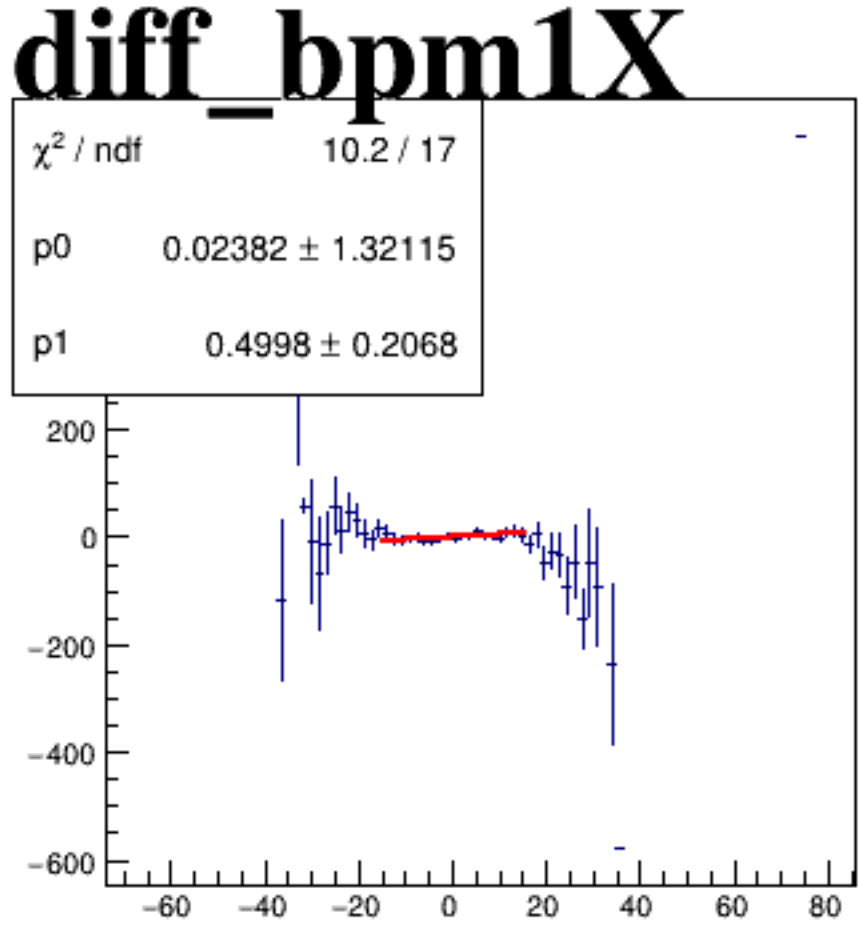
asym_sam6



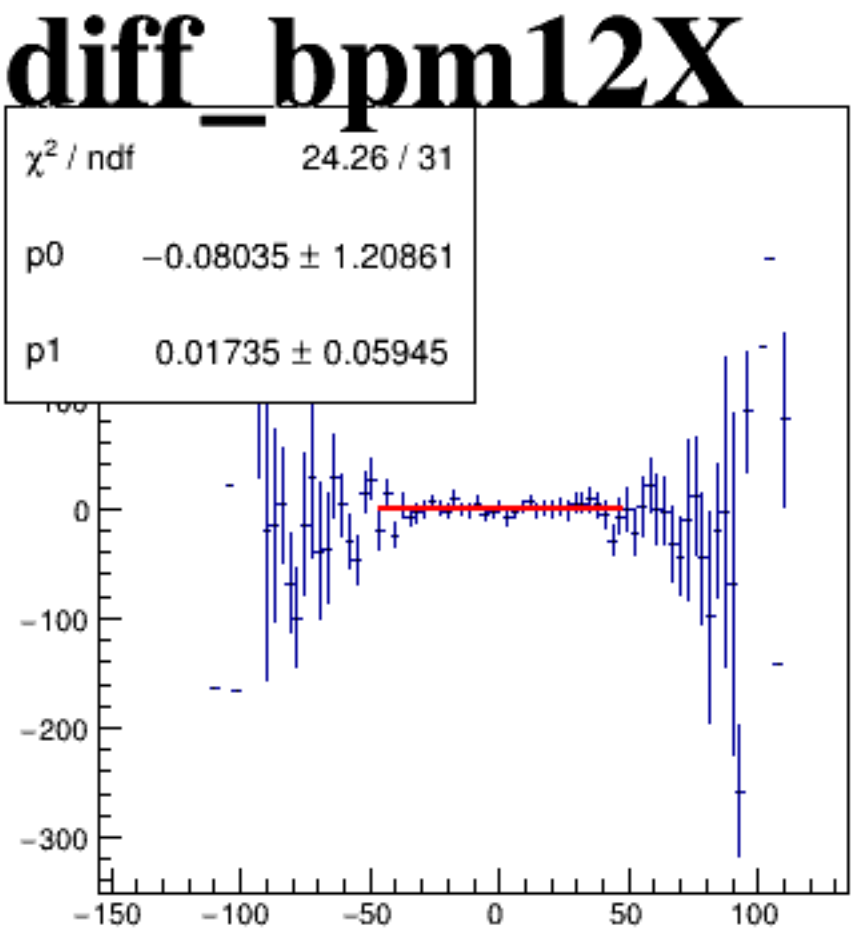
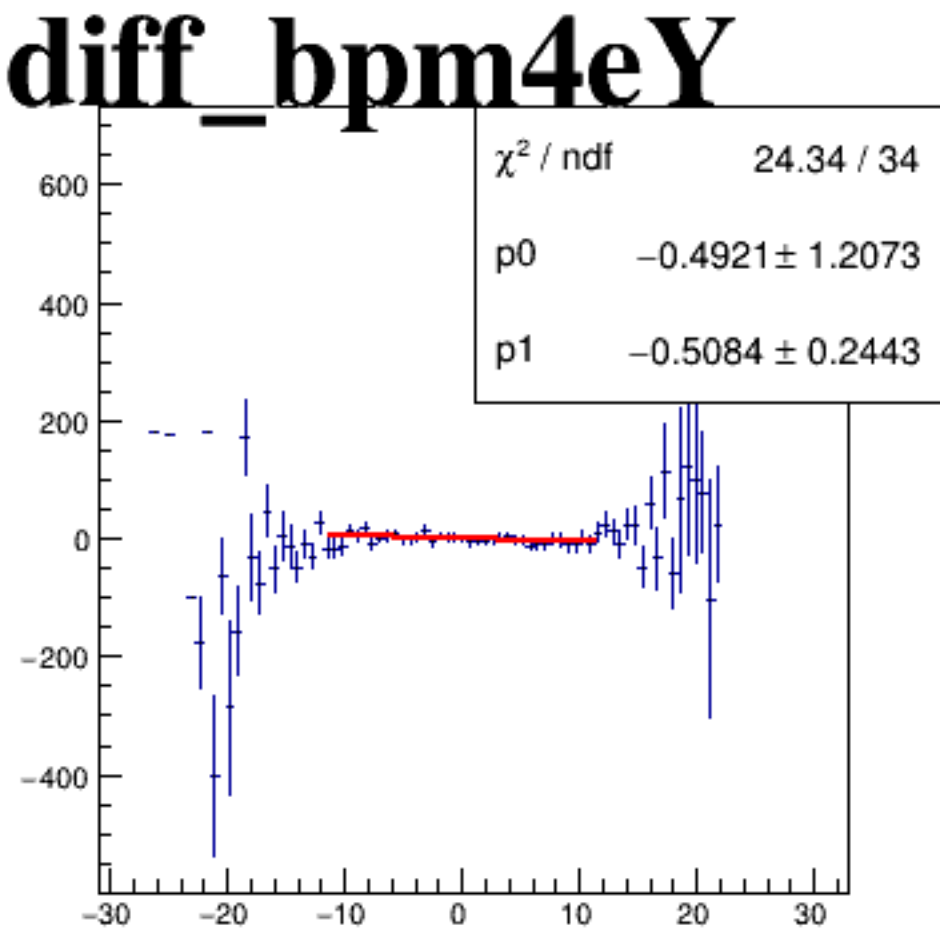
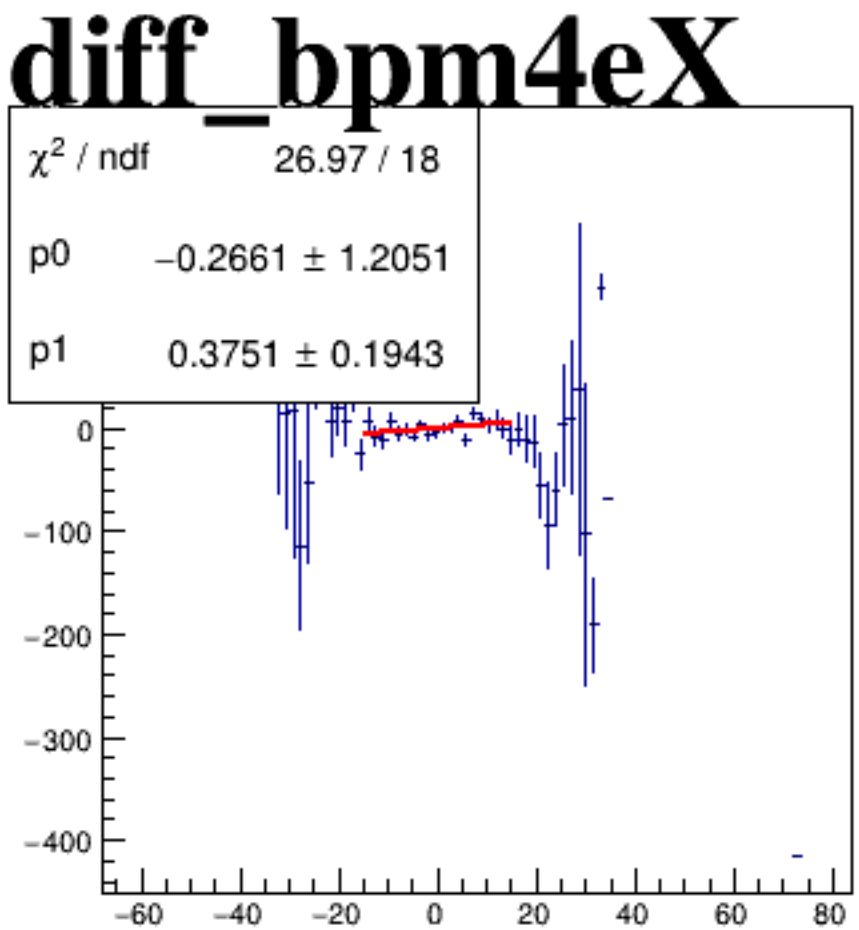
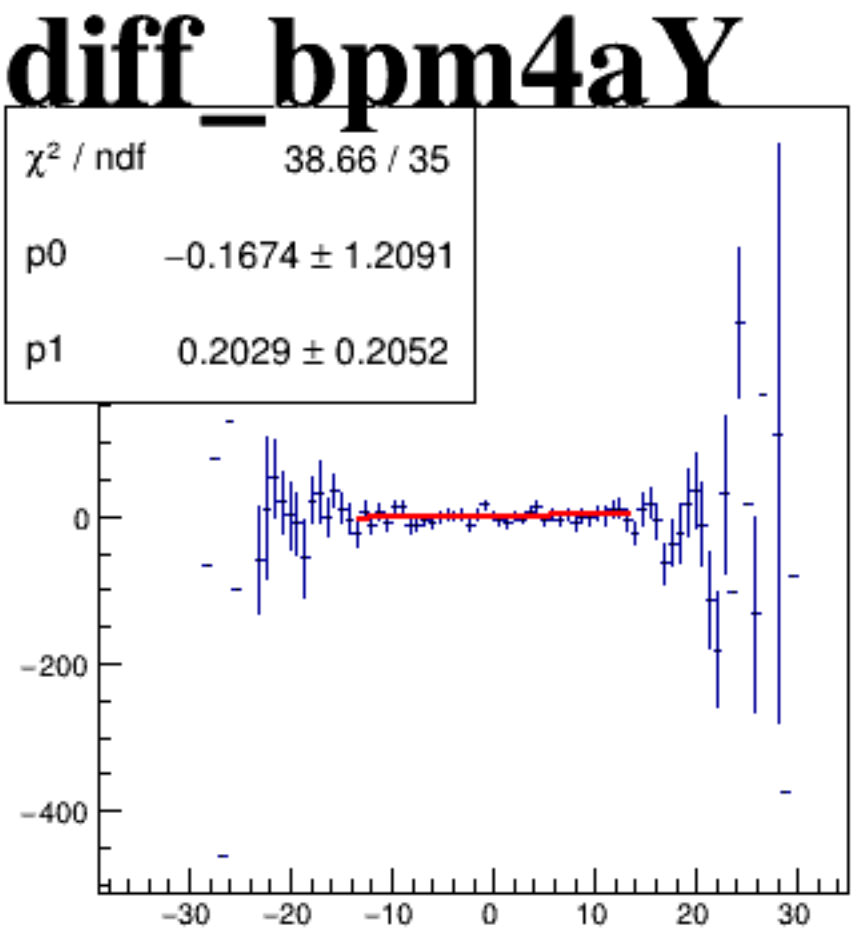
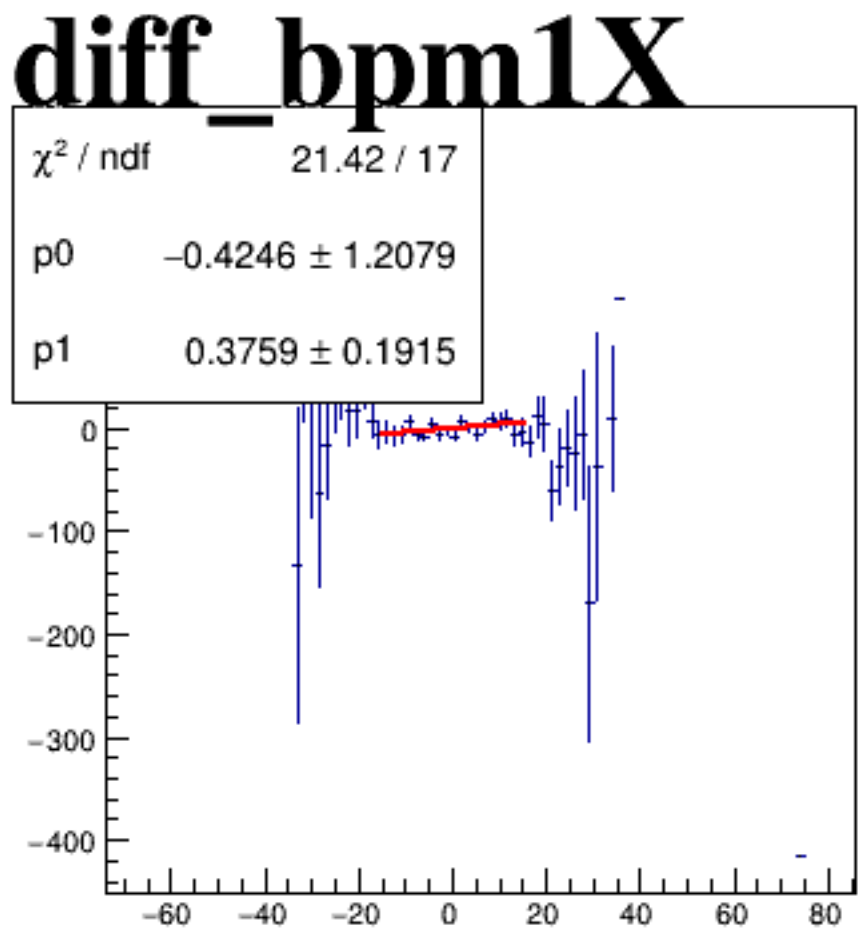
asym_sam8



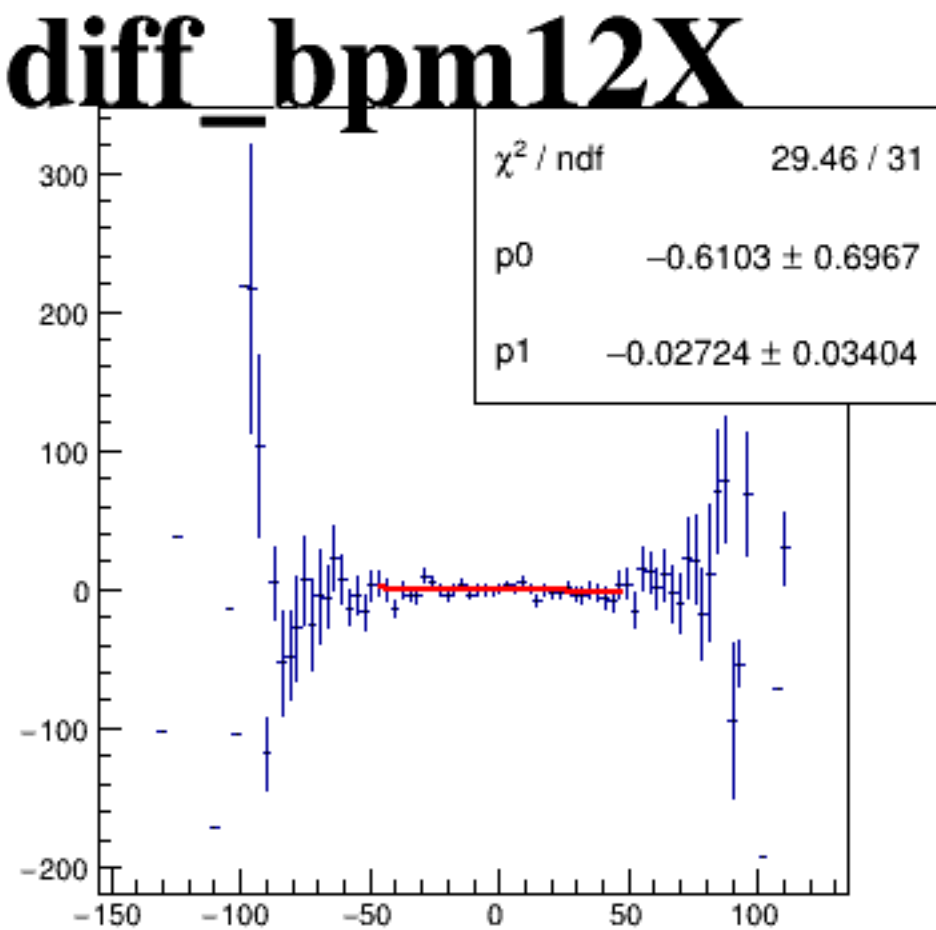
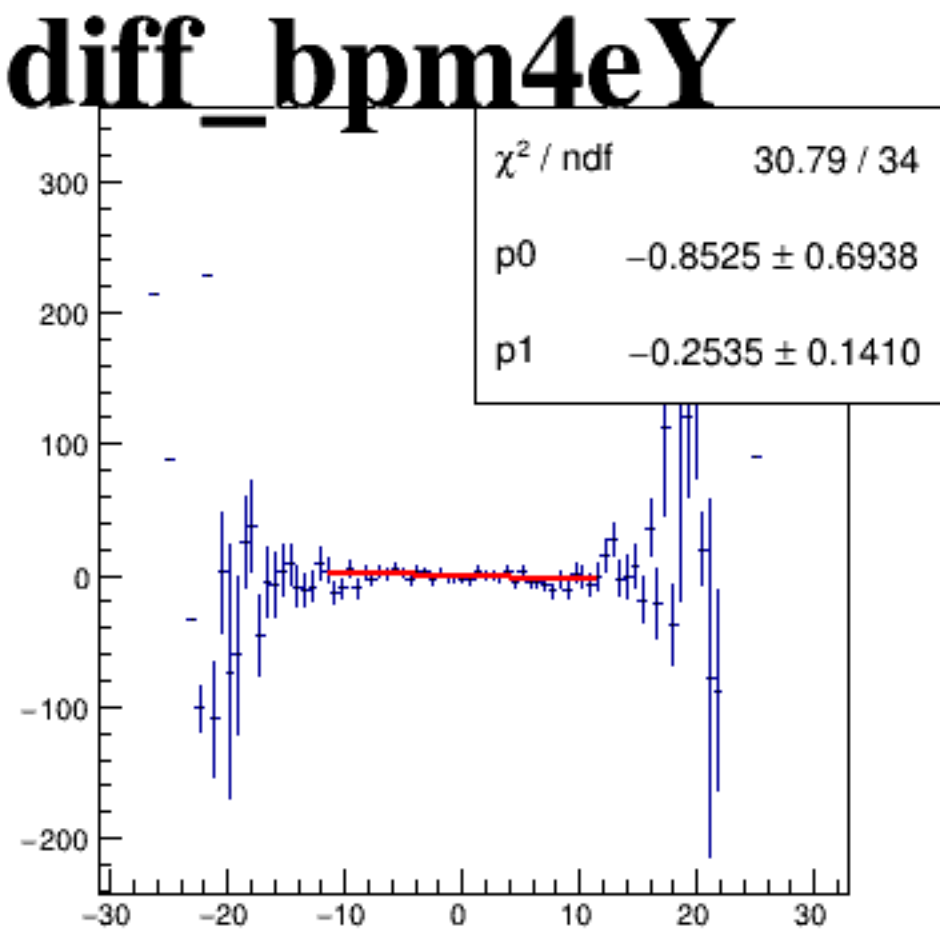
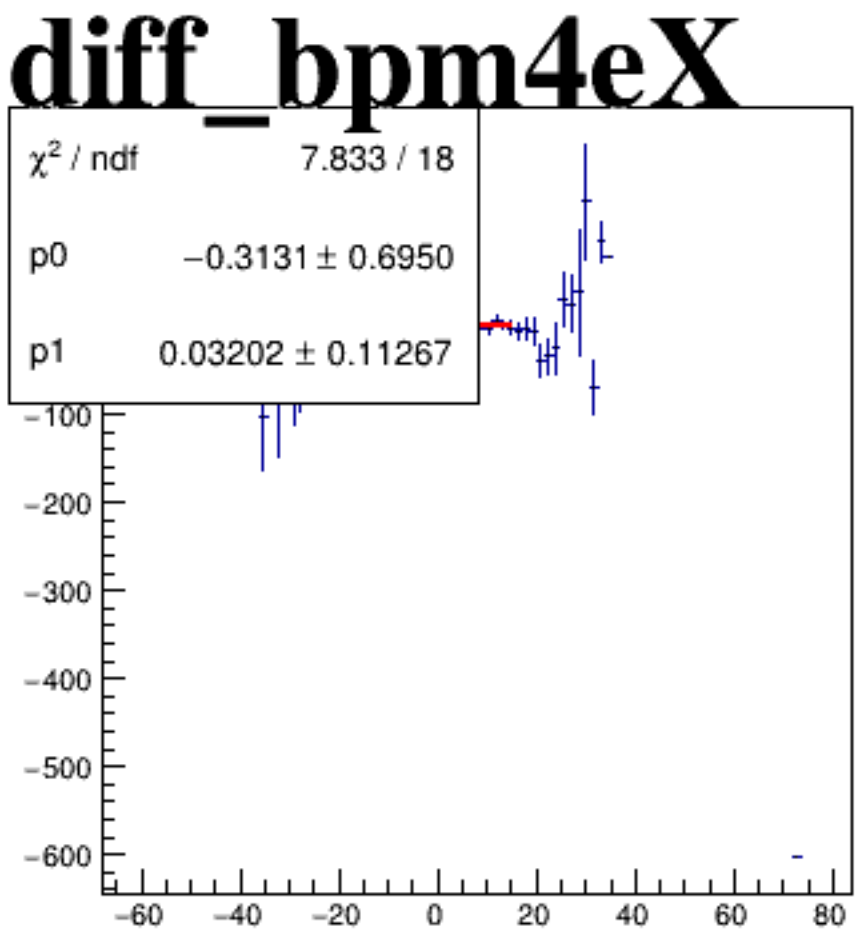
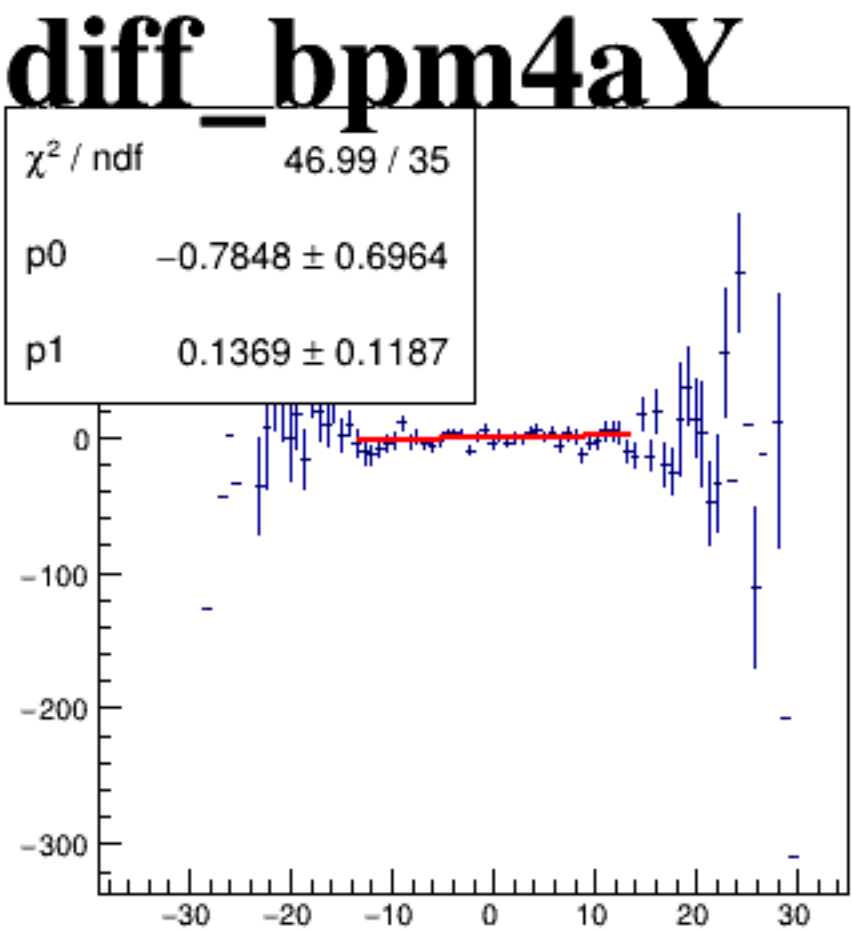
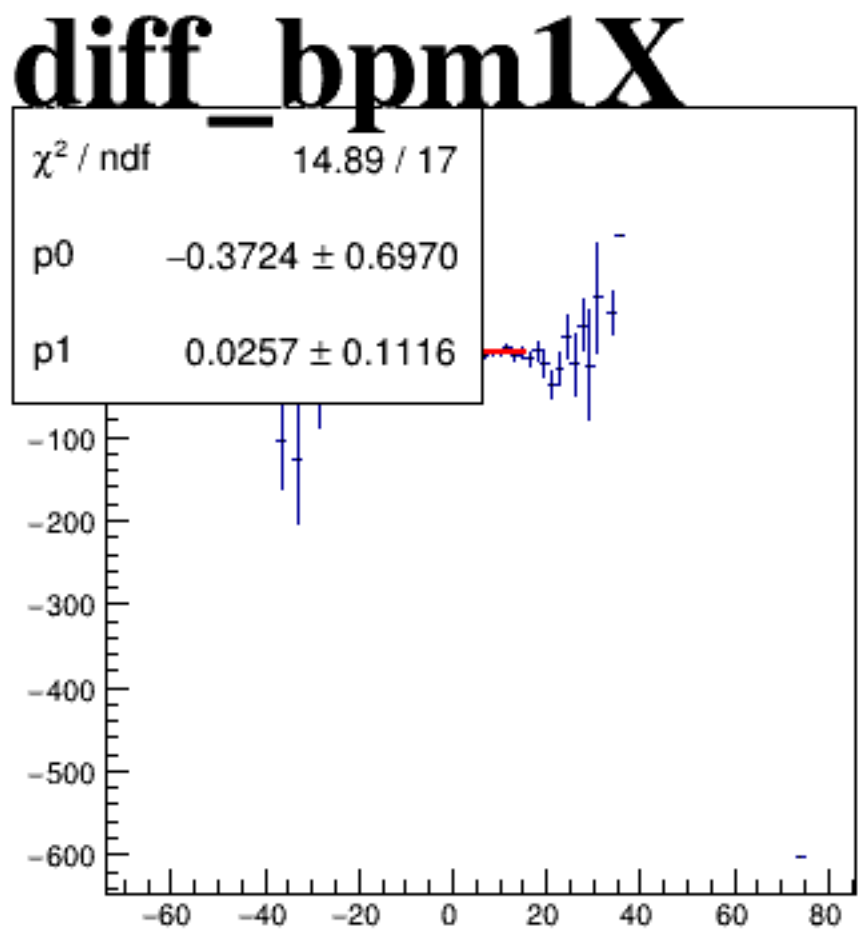
reg_asym_sam2



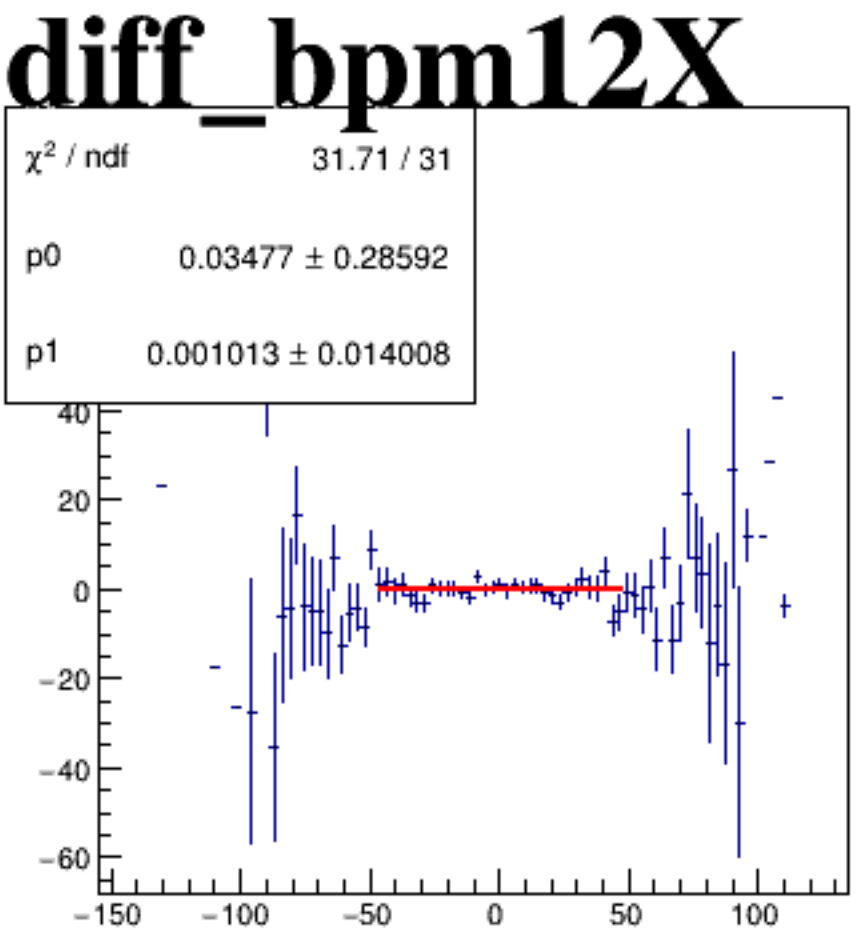
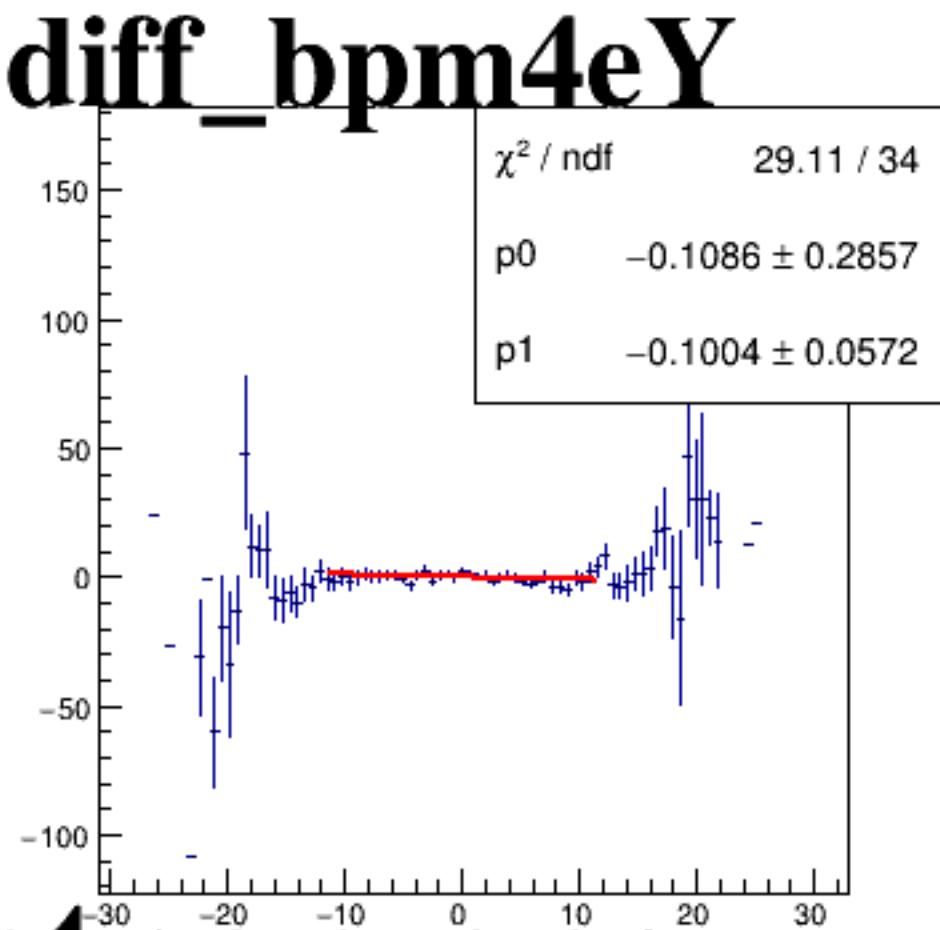
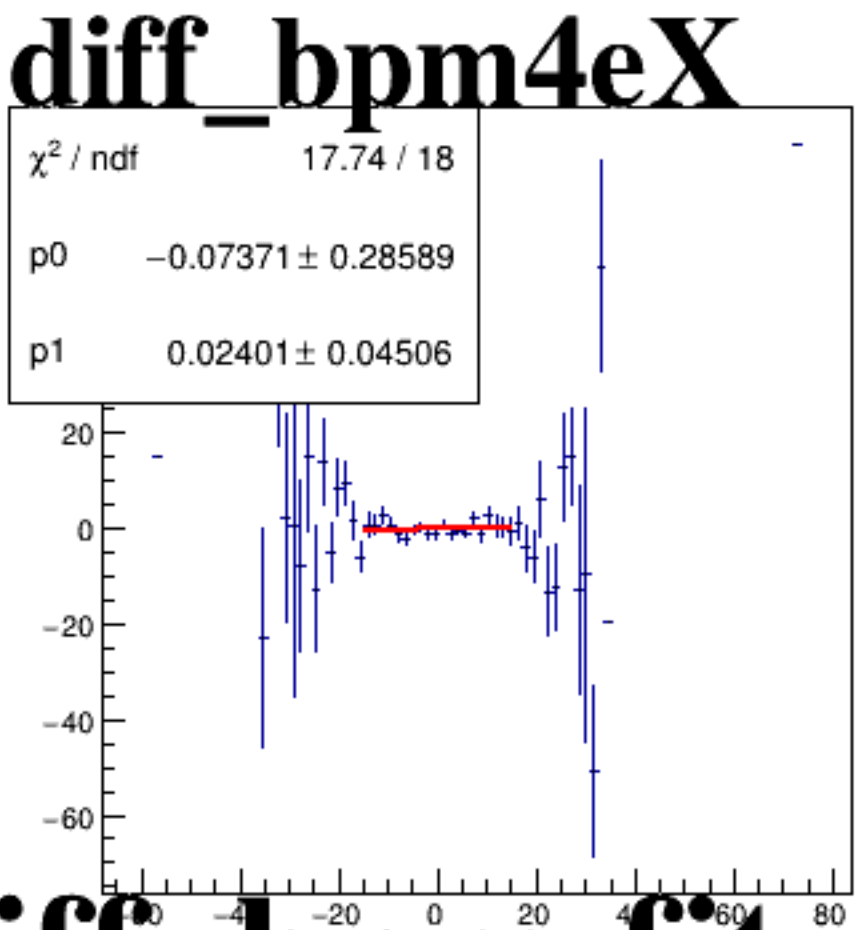
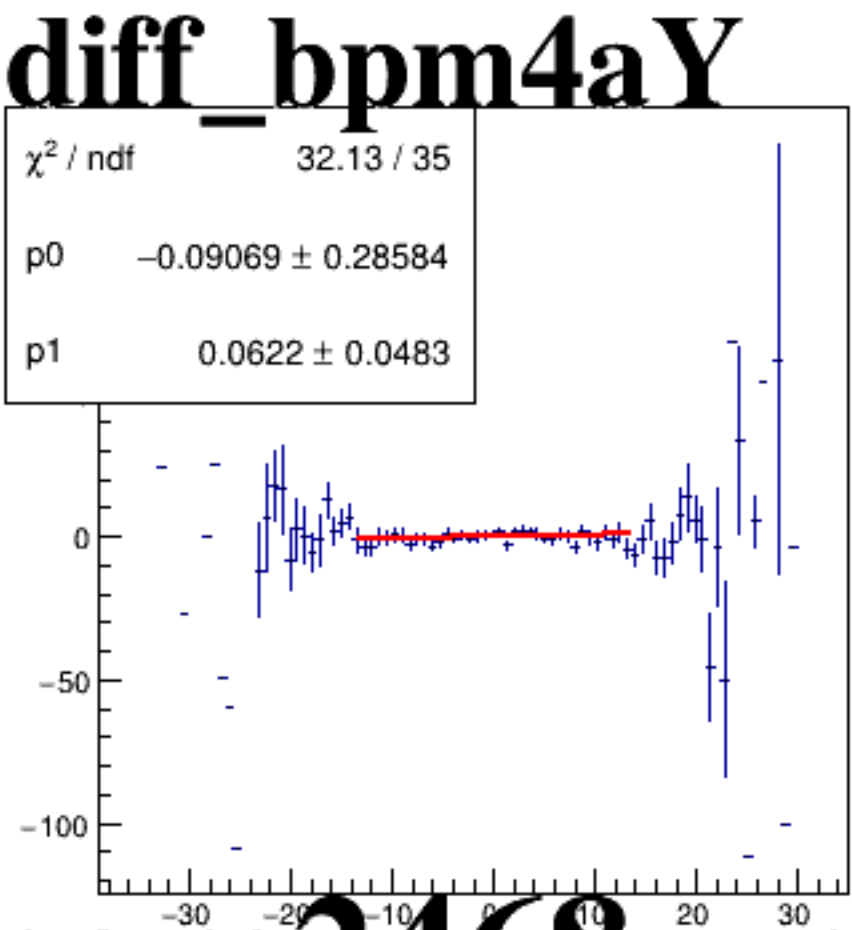
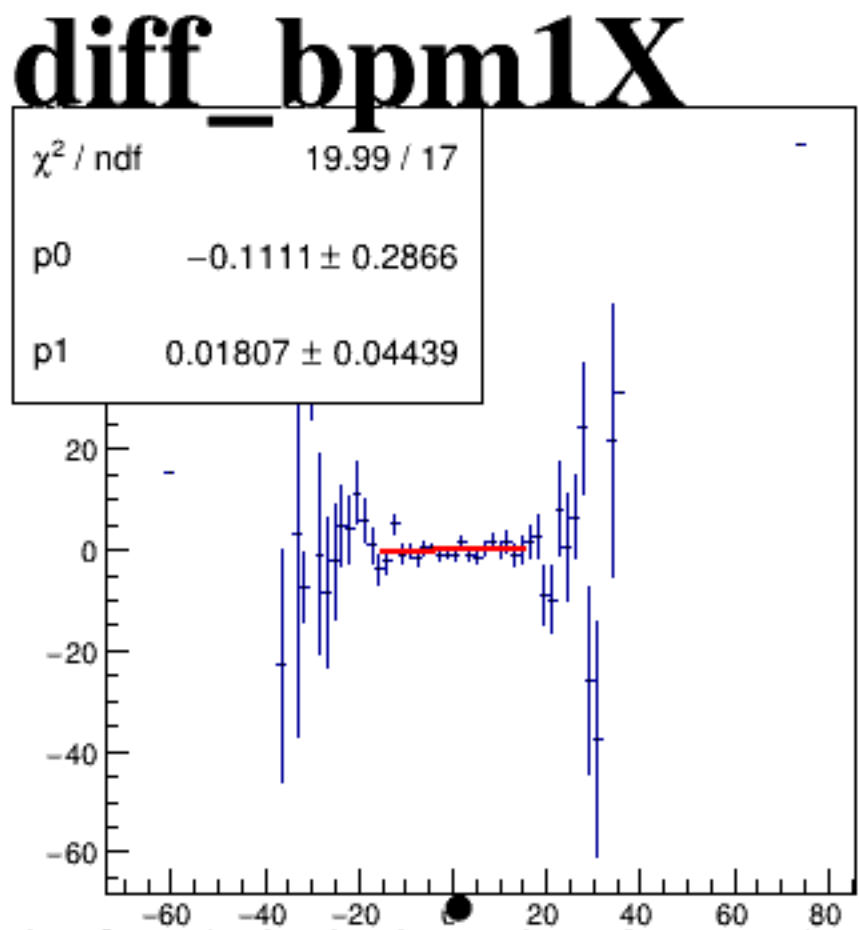
reg_asym_sam4



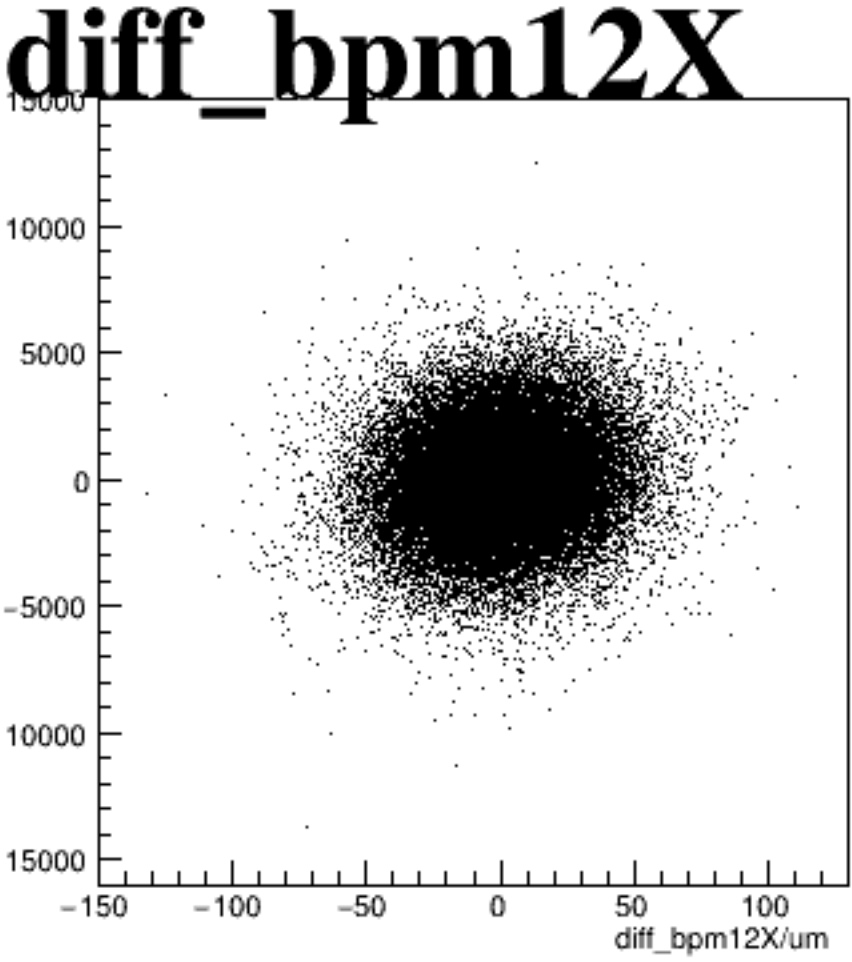
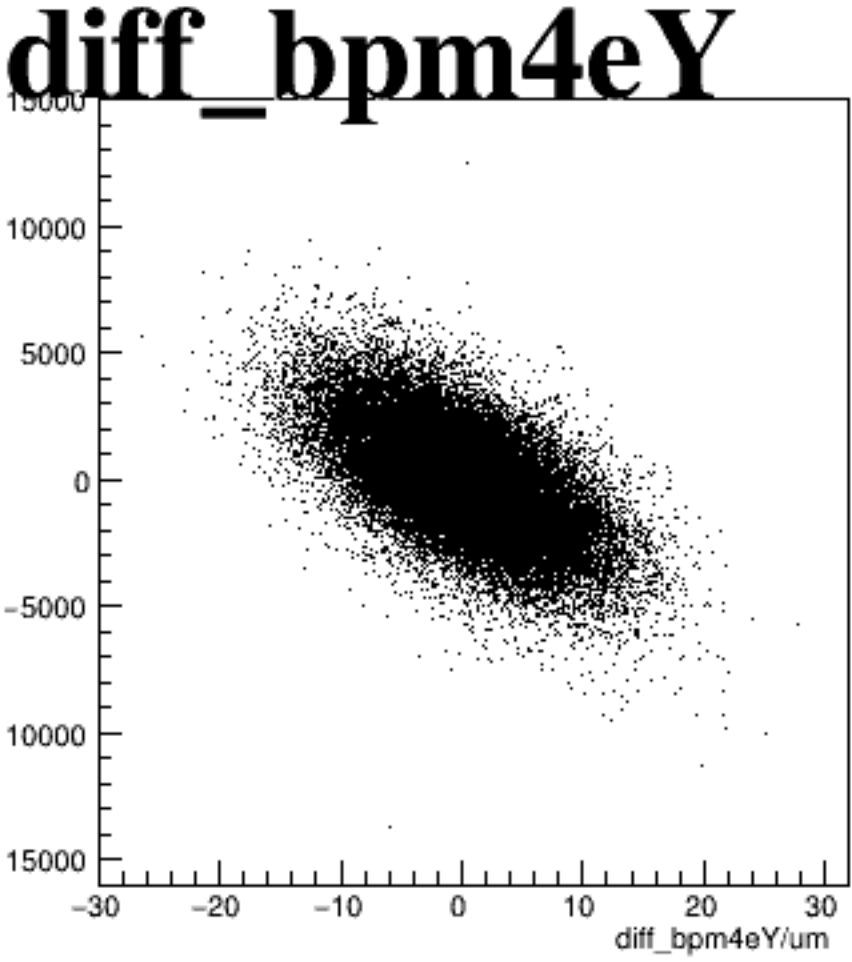
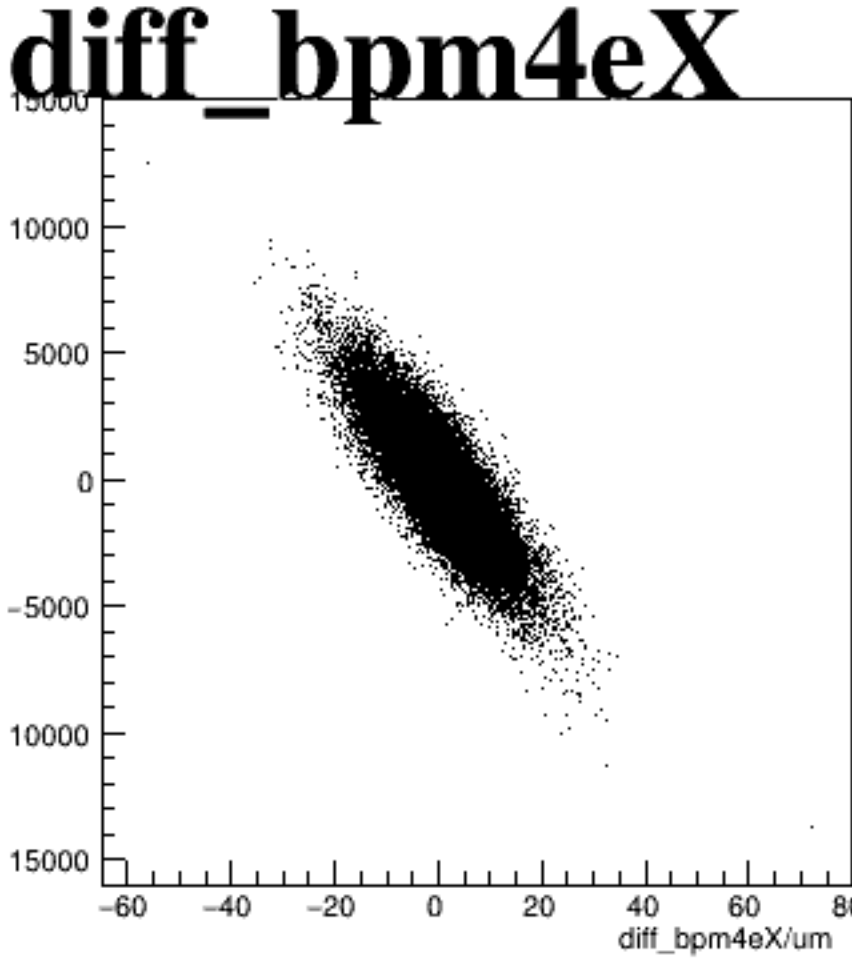
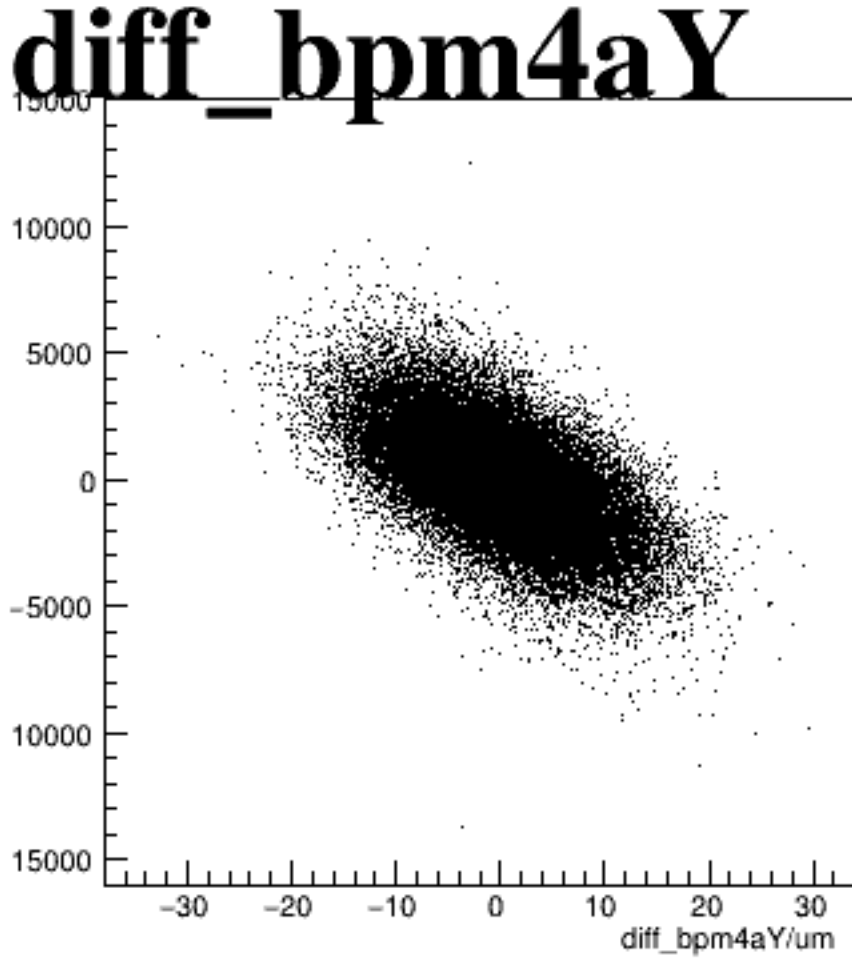
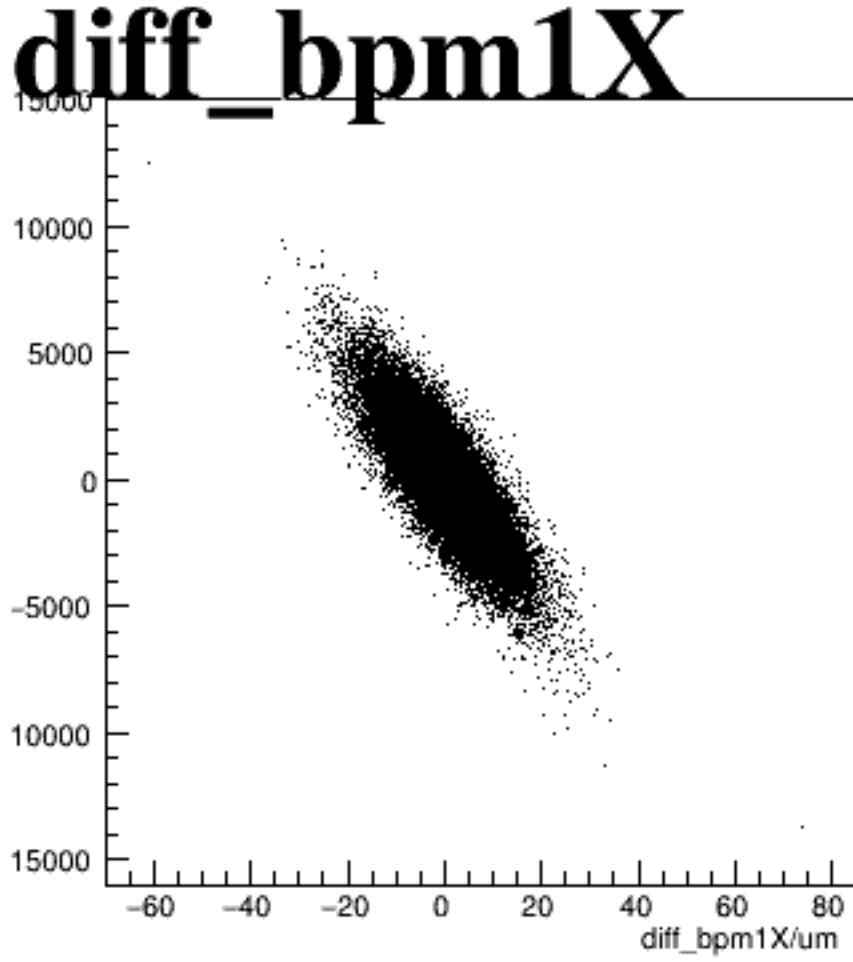
reg_asym_sam6



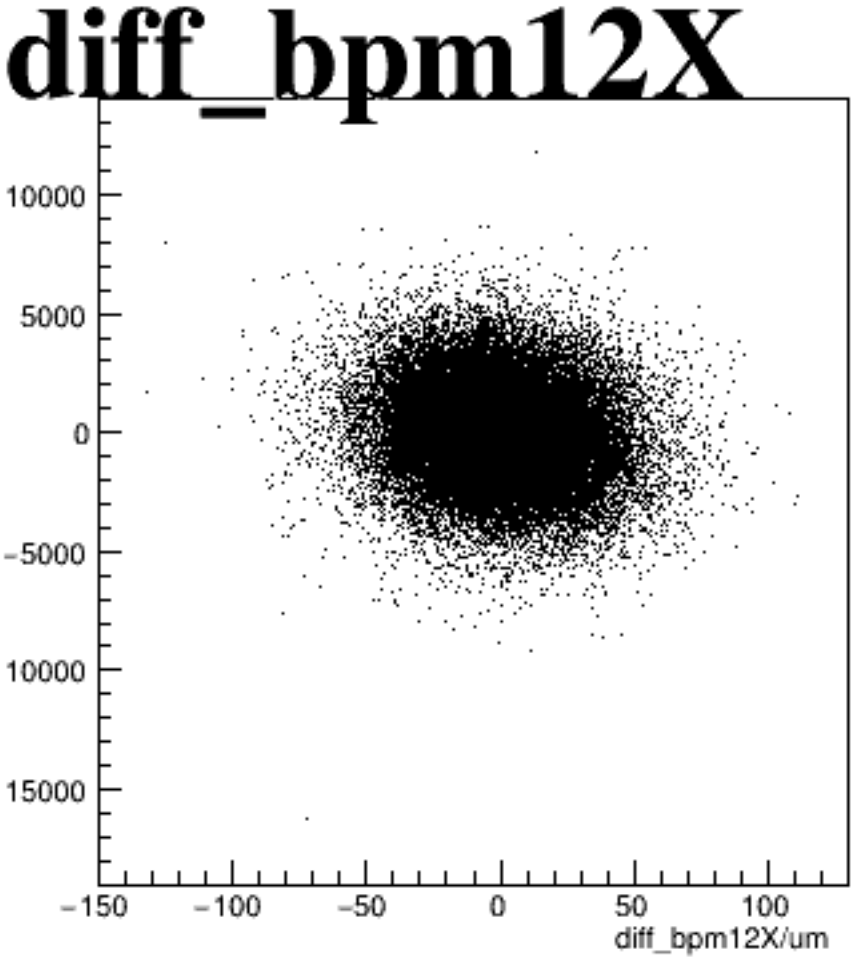
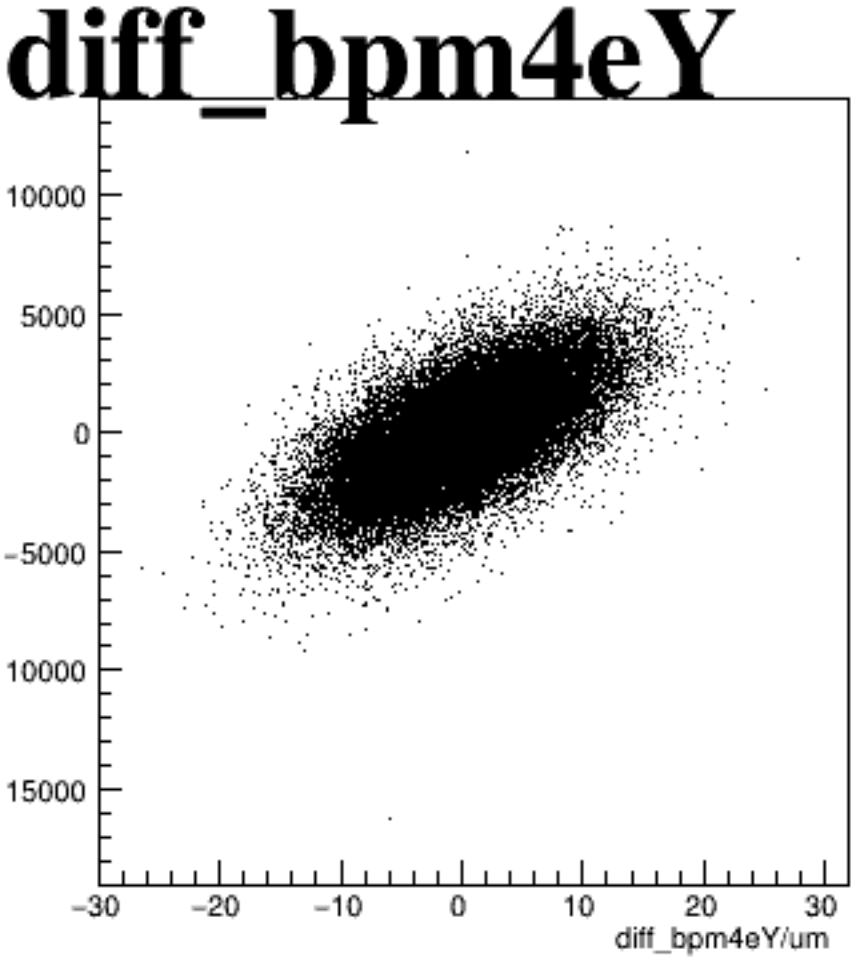
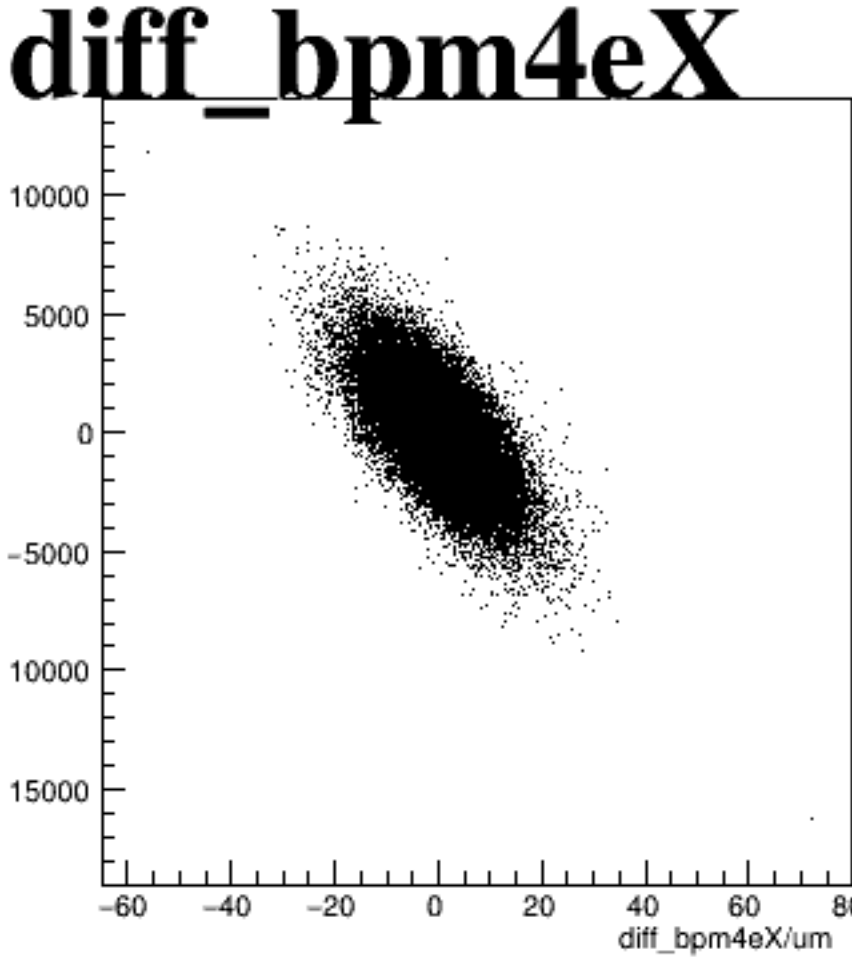
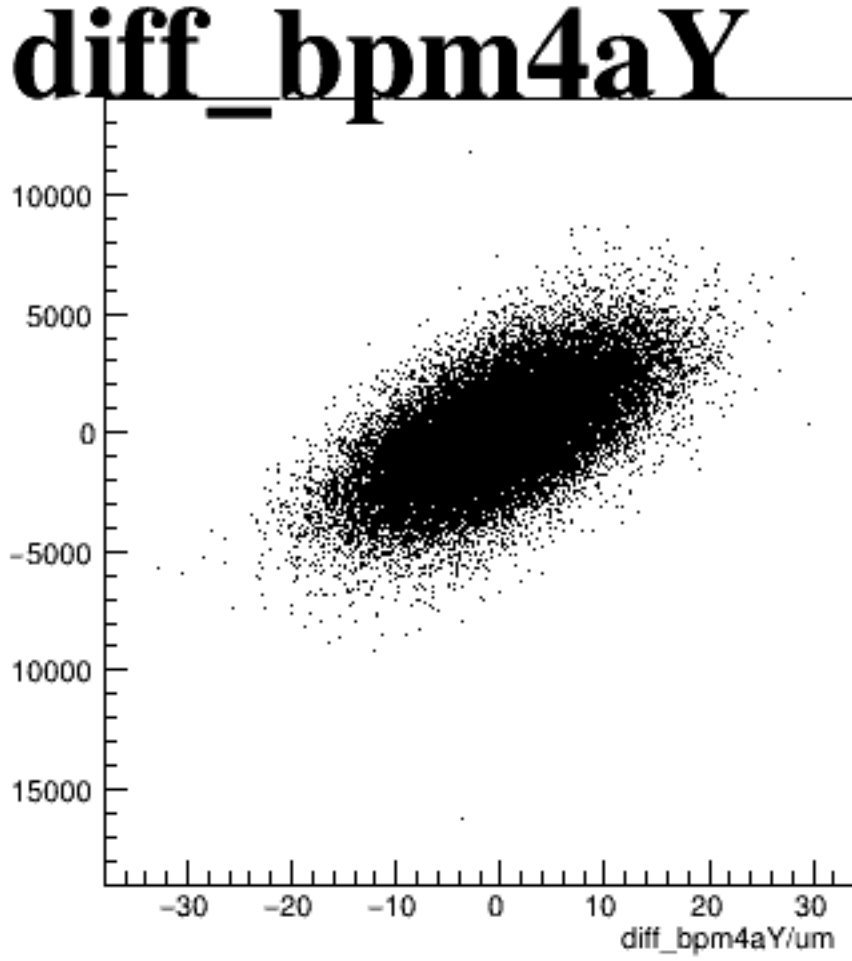
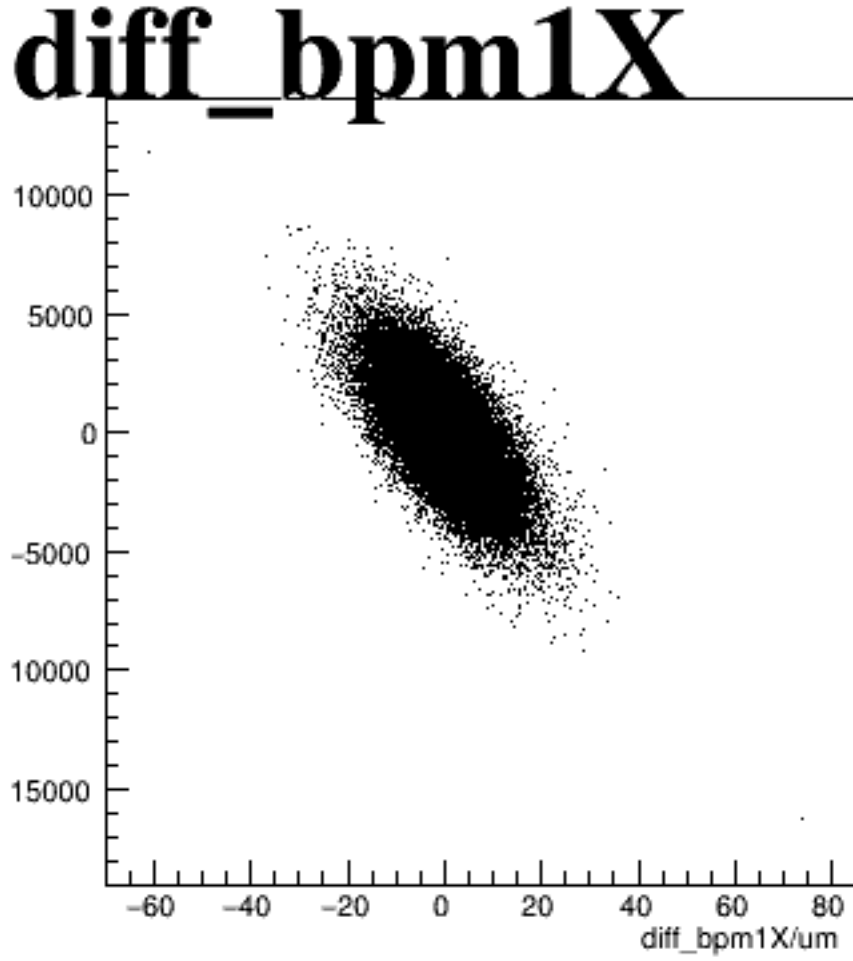
reg_asym_sam8



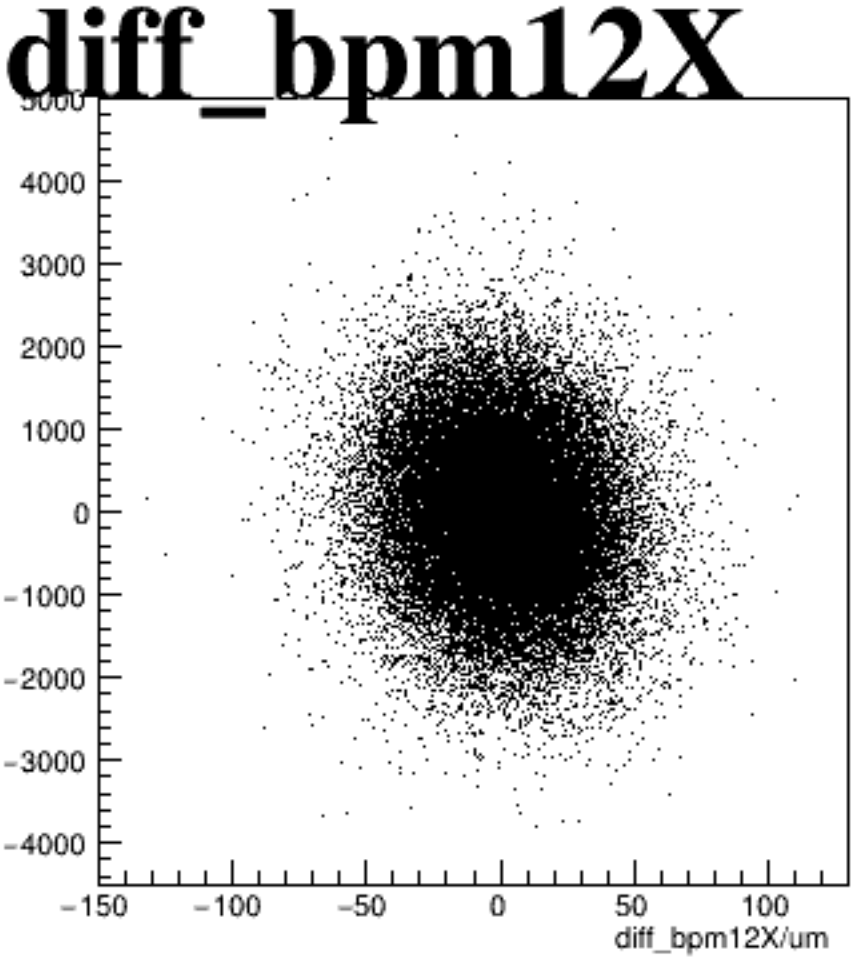
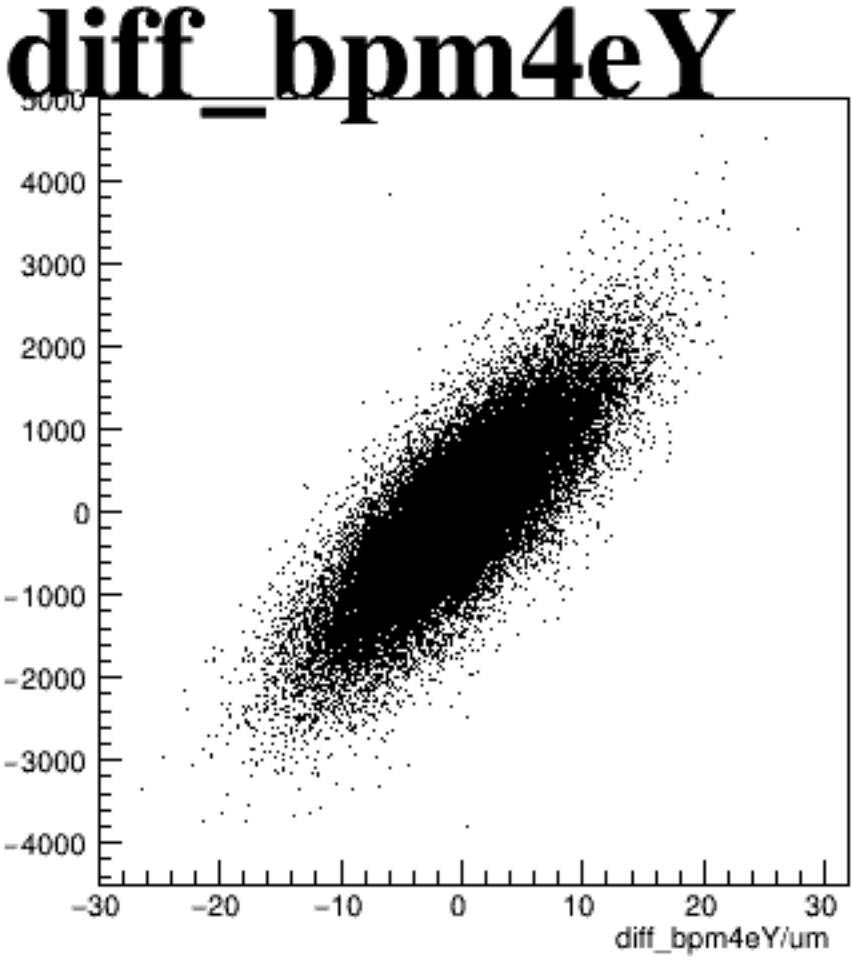
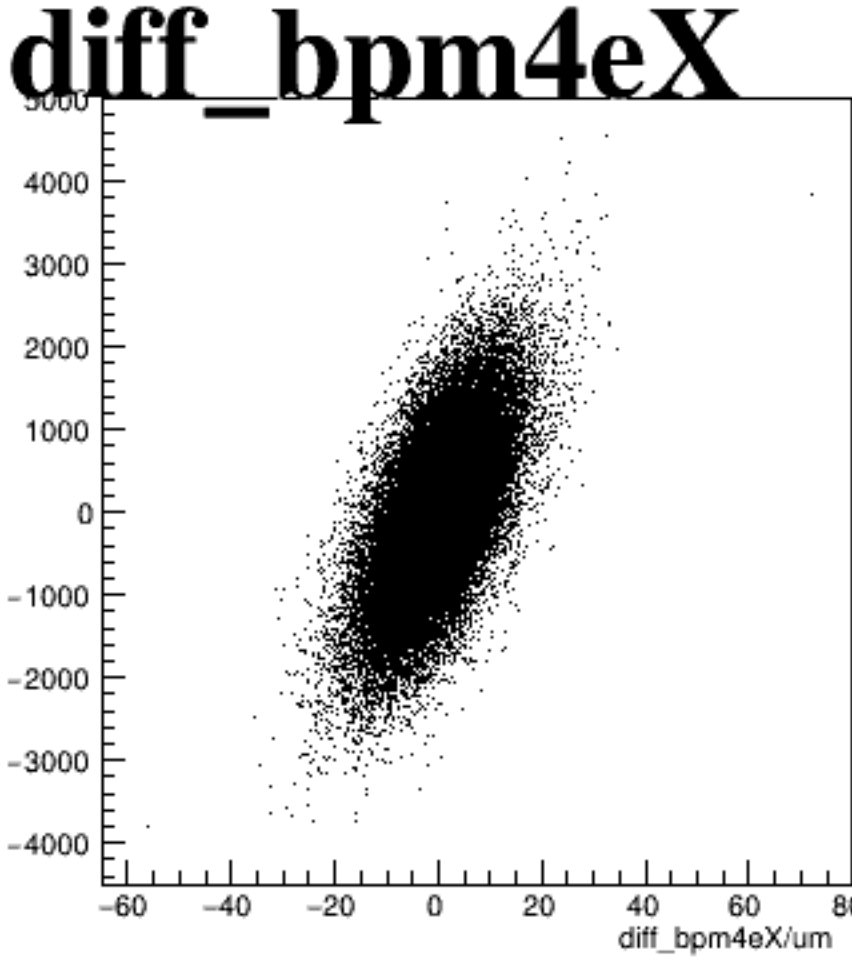
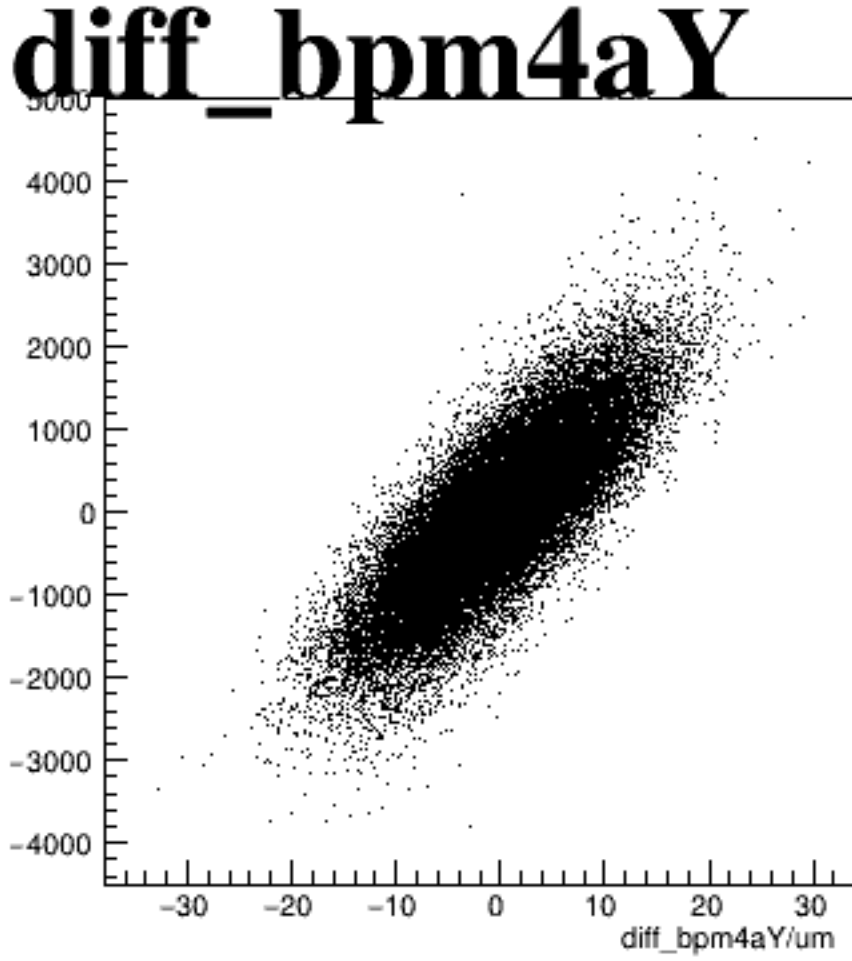
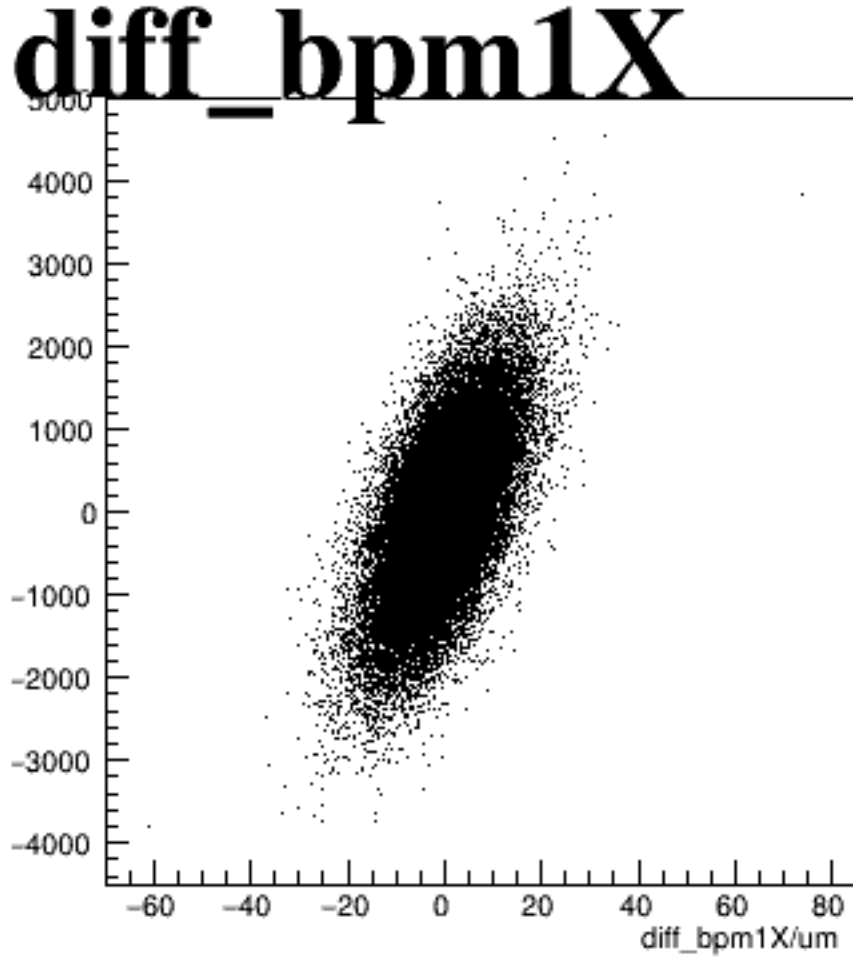
asym_sam2



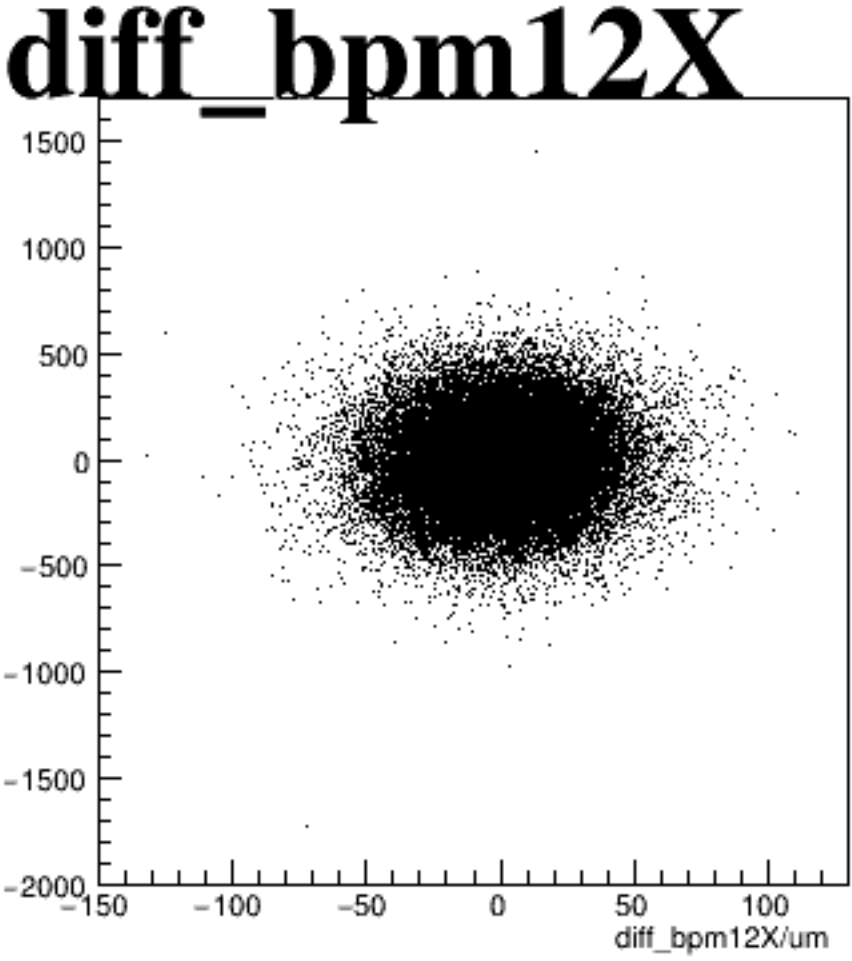
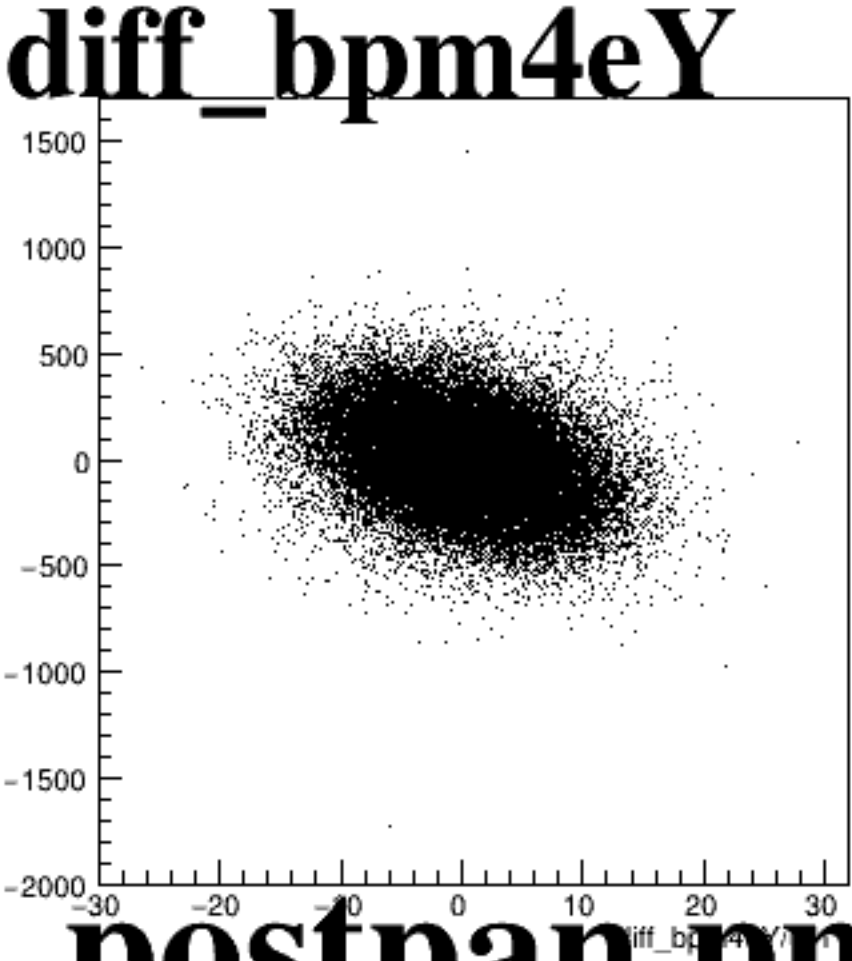
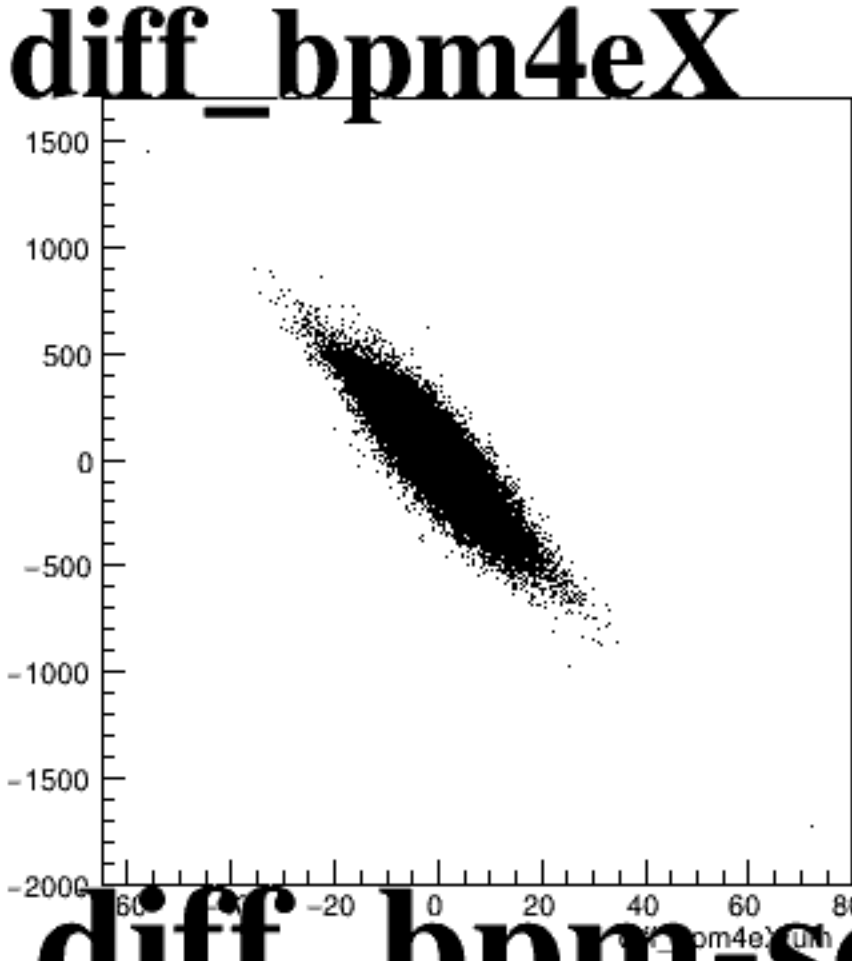
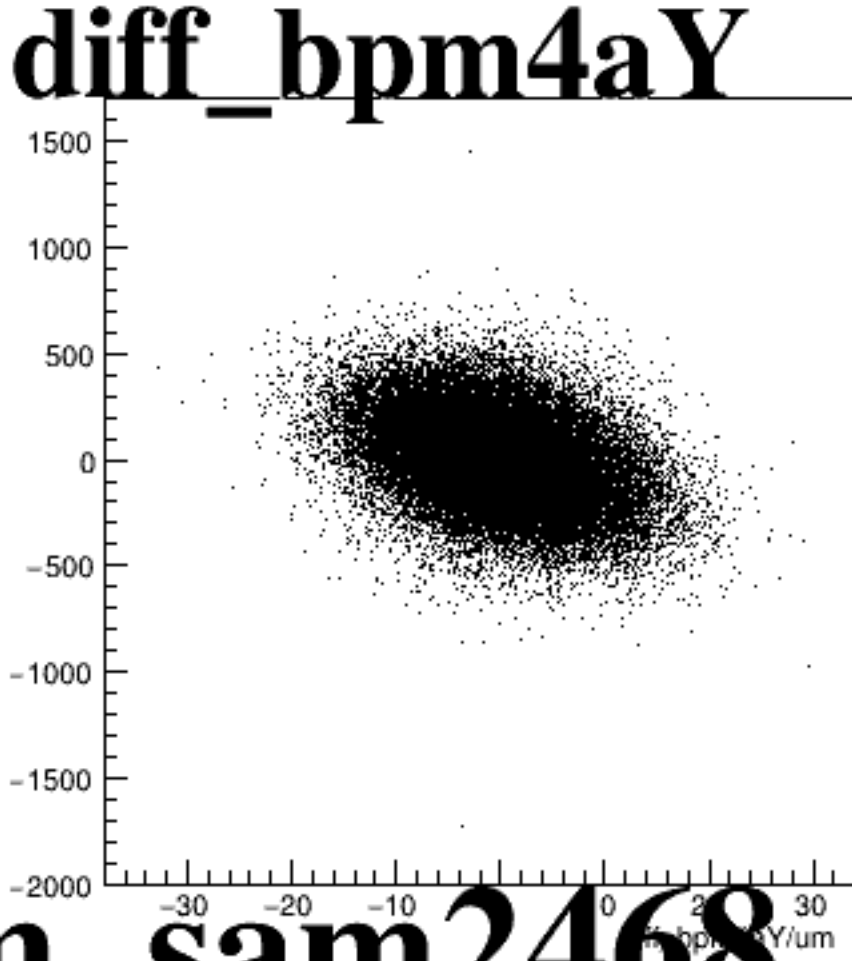
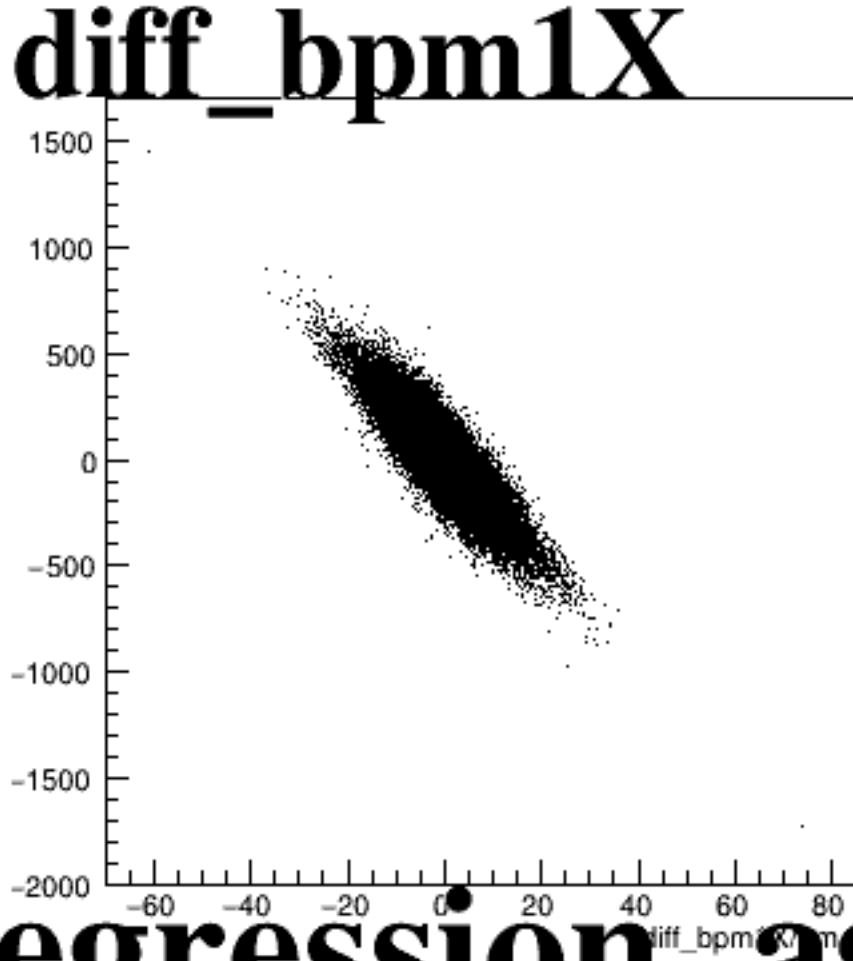
asym_sam4



asym_sam6



asym_sam8

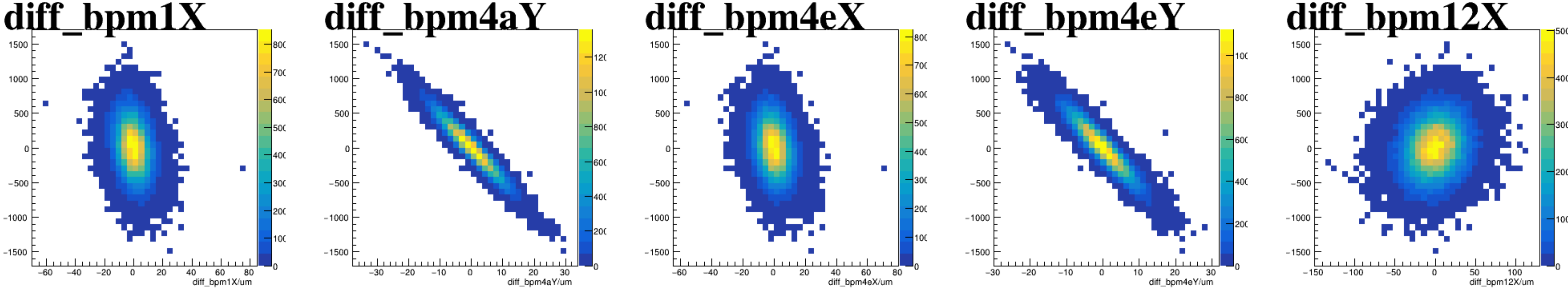


The figure consists of five scatter plots arranged horizontally, each showing the distribution of a specific beam parameter difference. The y-axis for all plots ranges from -1500 to 2000. The x-axis for each plot is labeled as follows:

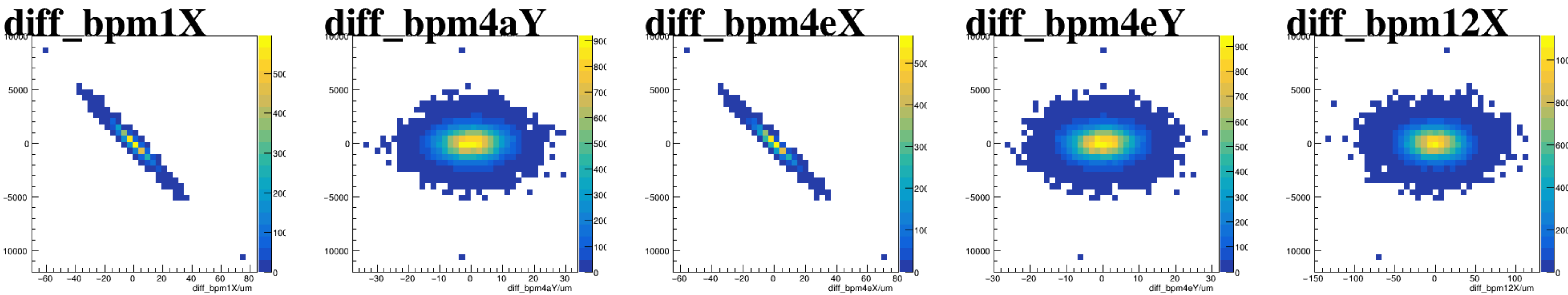
- diff_bpm1X**: x-axis ranges from -60 to 80.
- diff_bpm4aY**: x-axis ranges from -30 to 30.
- diff_bpm4eX**: x-axis ranges from -60 to 80.
- diff_bpm4eY**: x-axis ranges from -30 to 30.
- diff_bpm12X**: x-axis ranges from -150 to 100.

In all plots, the data points form a dense, roughly circular cloud centered near the origin (0,0), indicating a Gaussian-like distribution of the beam parameters.

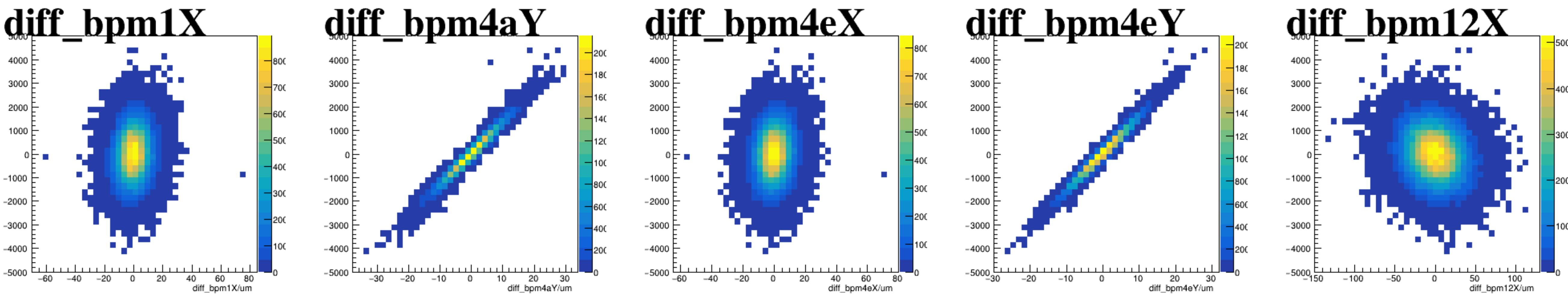
asym_sam1



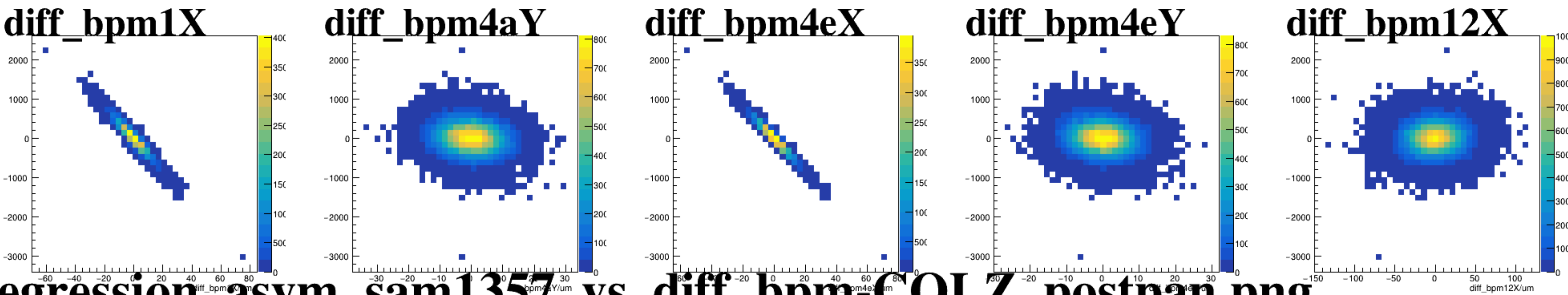
asym_sam3



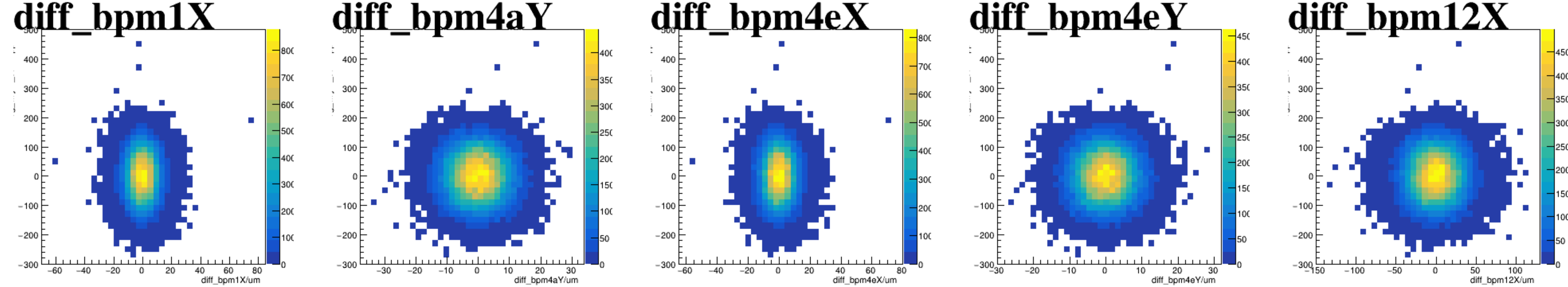
asym_sam5



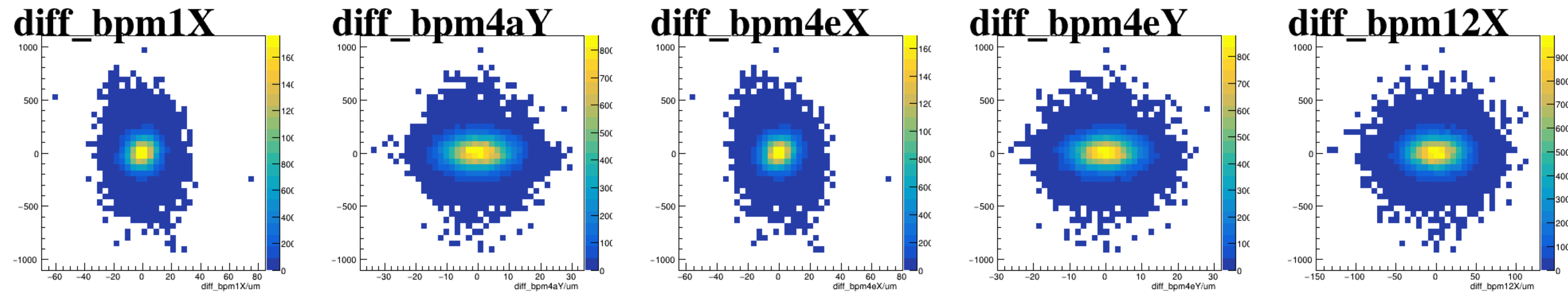
asym_sam7



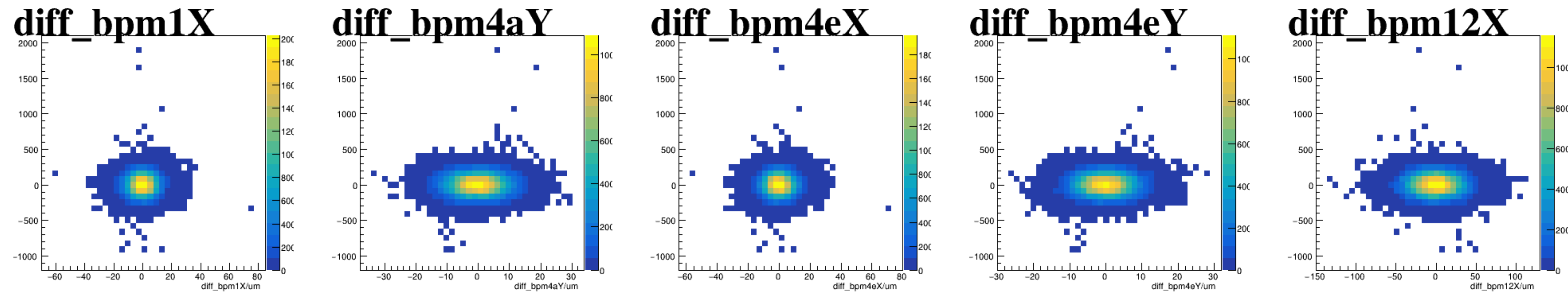
reg_asym_sam1



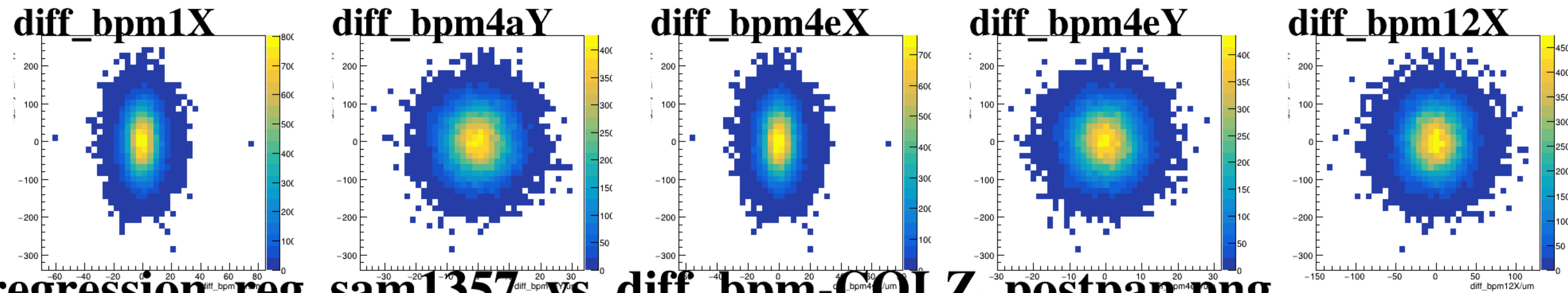
reg_asym_sam3



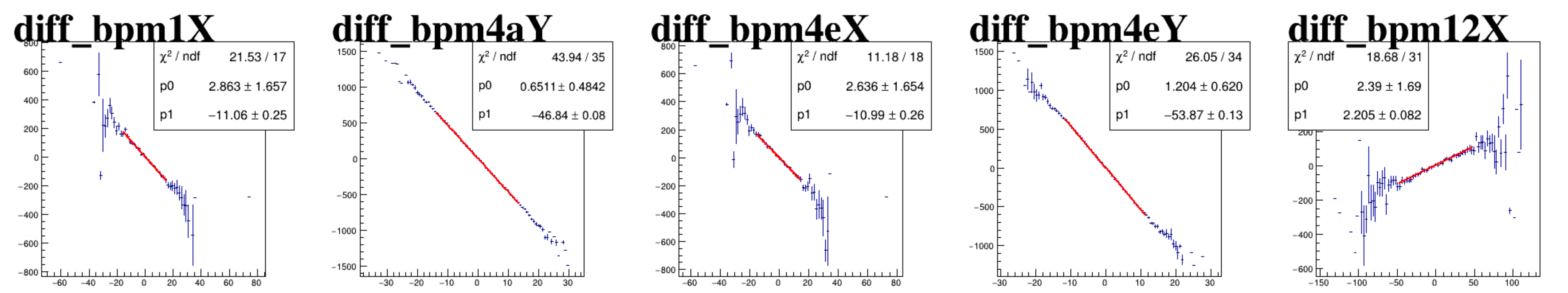
reg_asym_sam5



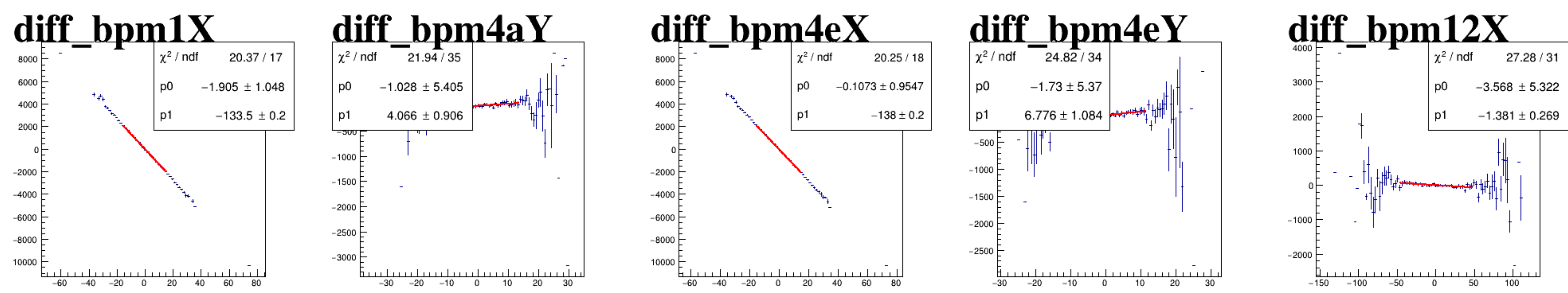
reg_asym_sam7



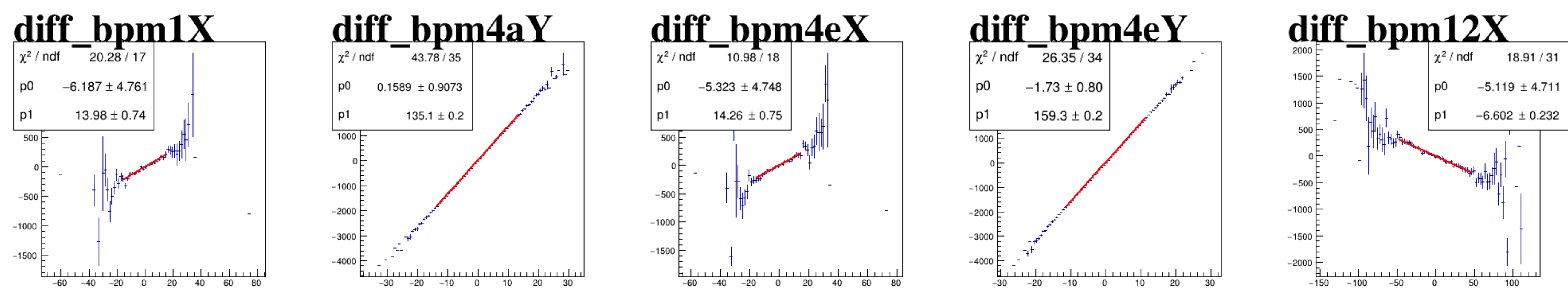
asym_sam1



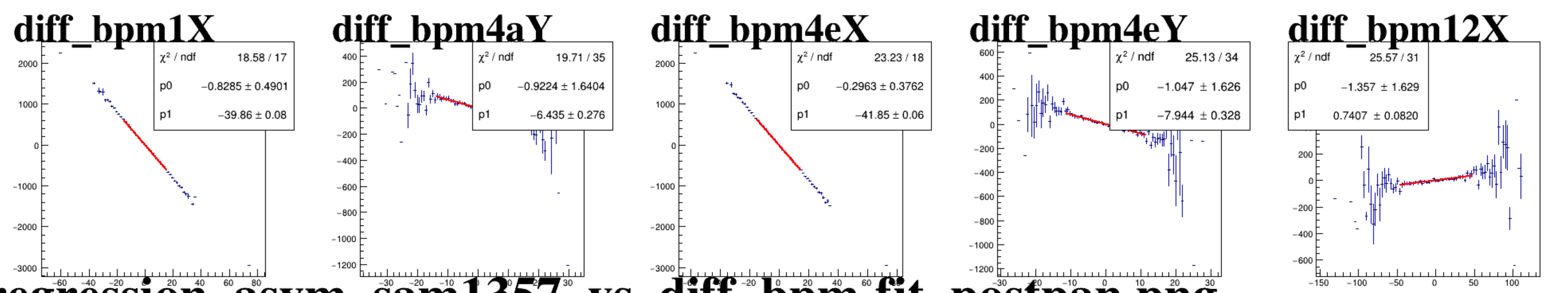
asym_sam3



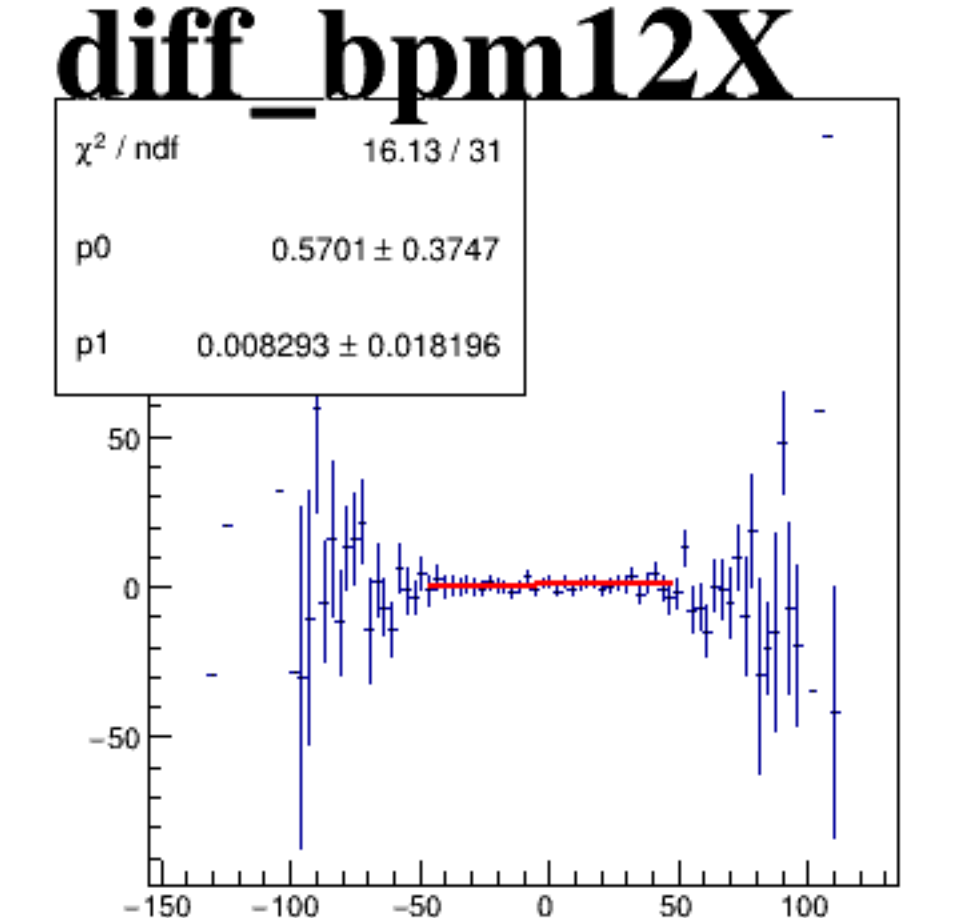
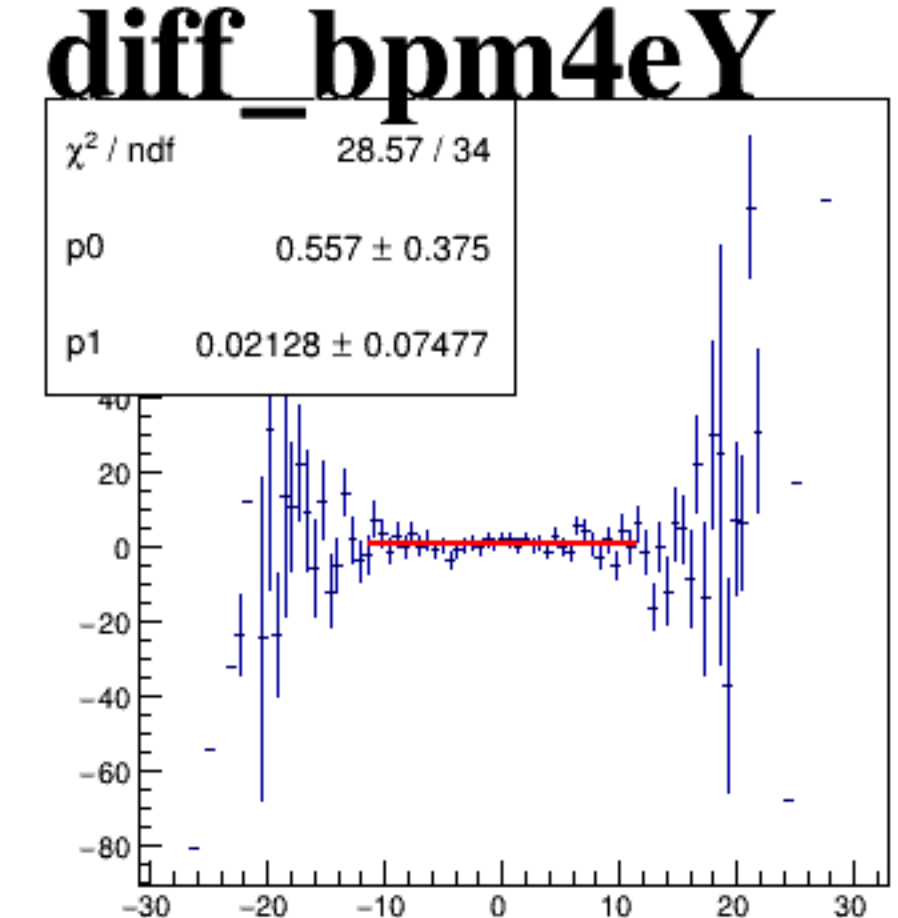
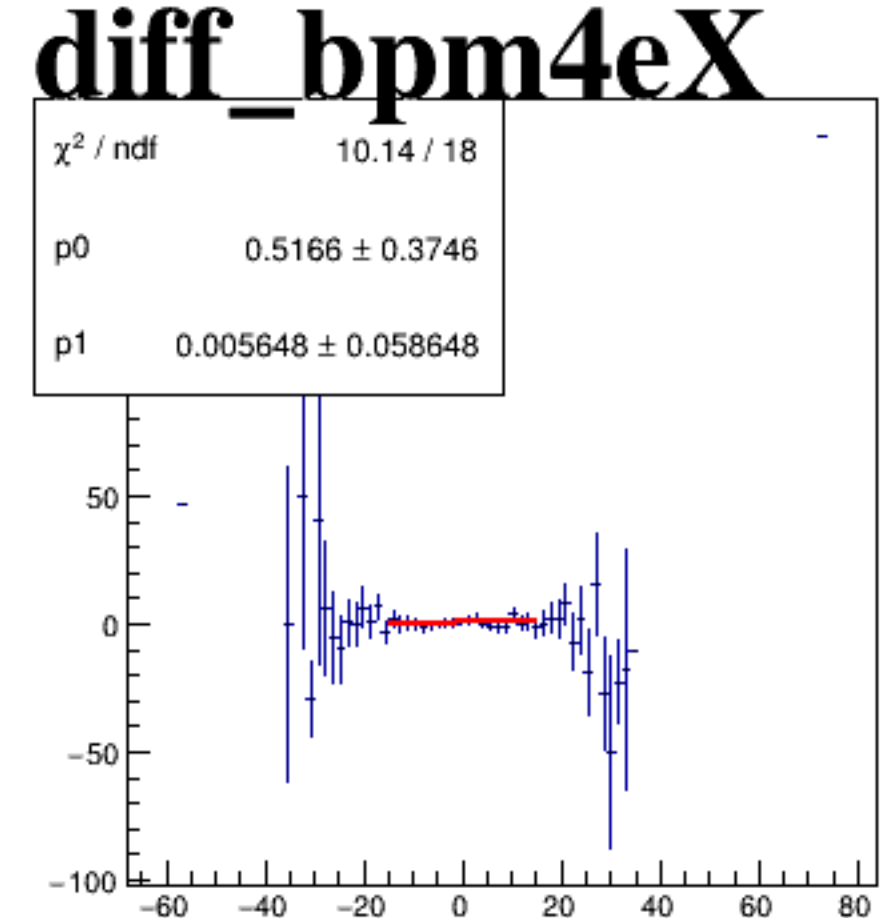
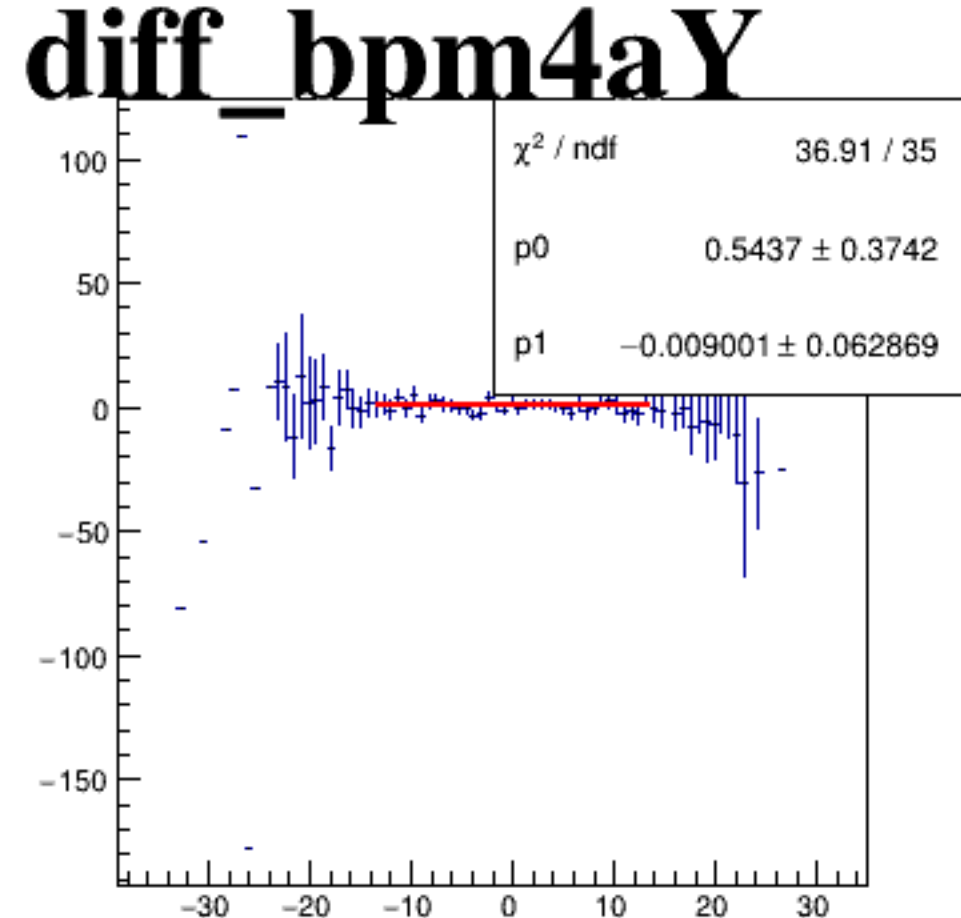
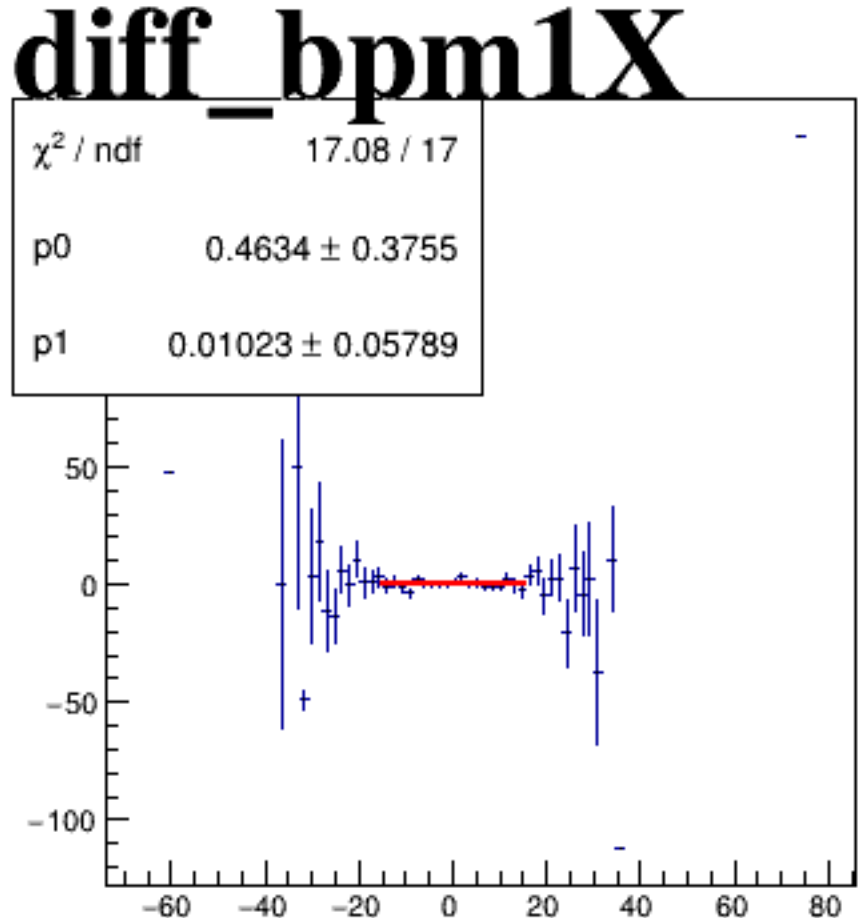
asym_sam5



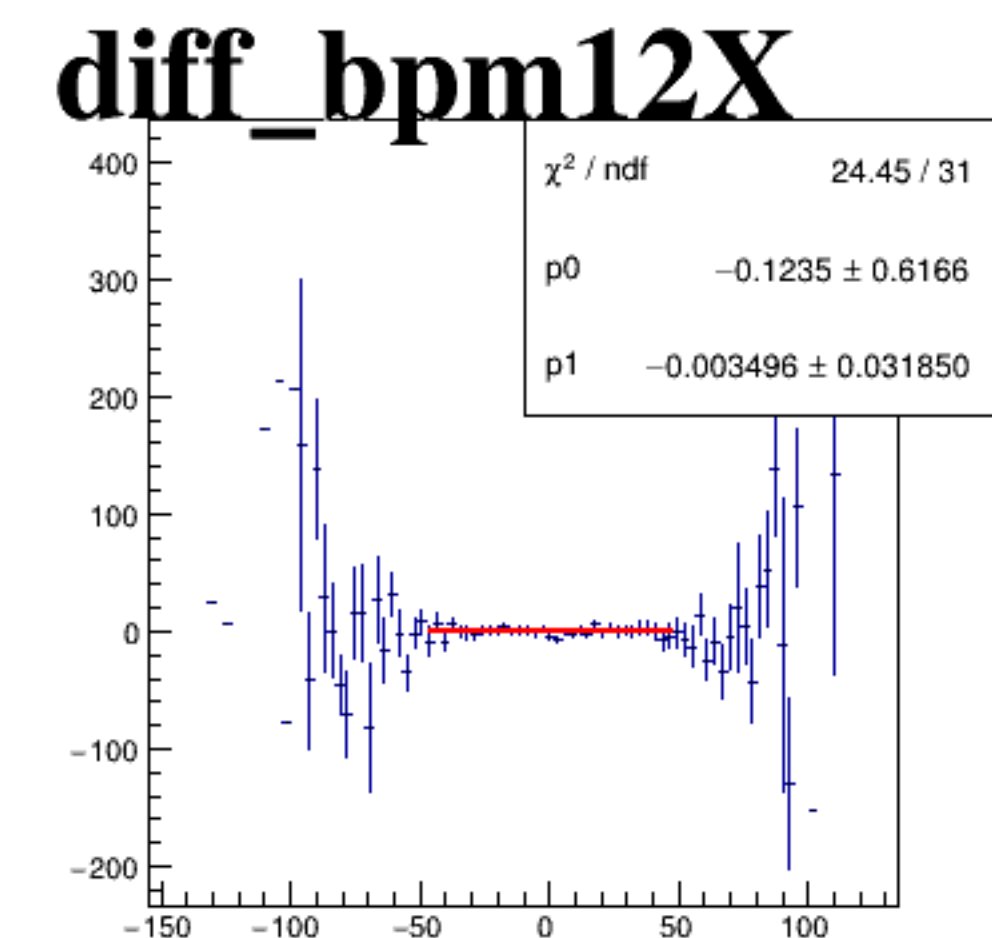
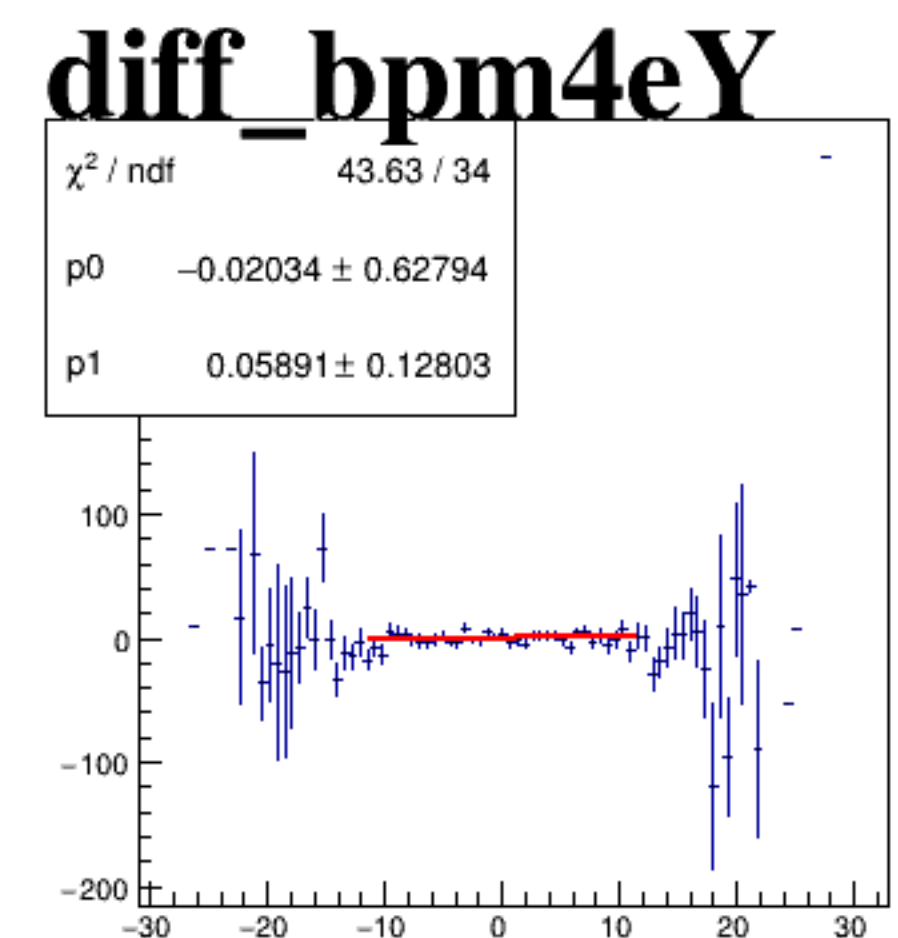
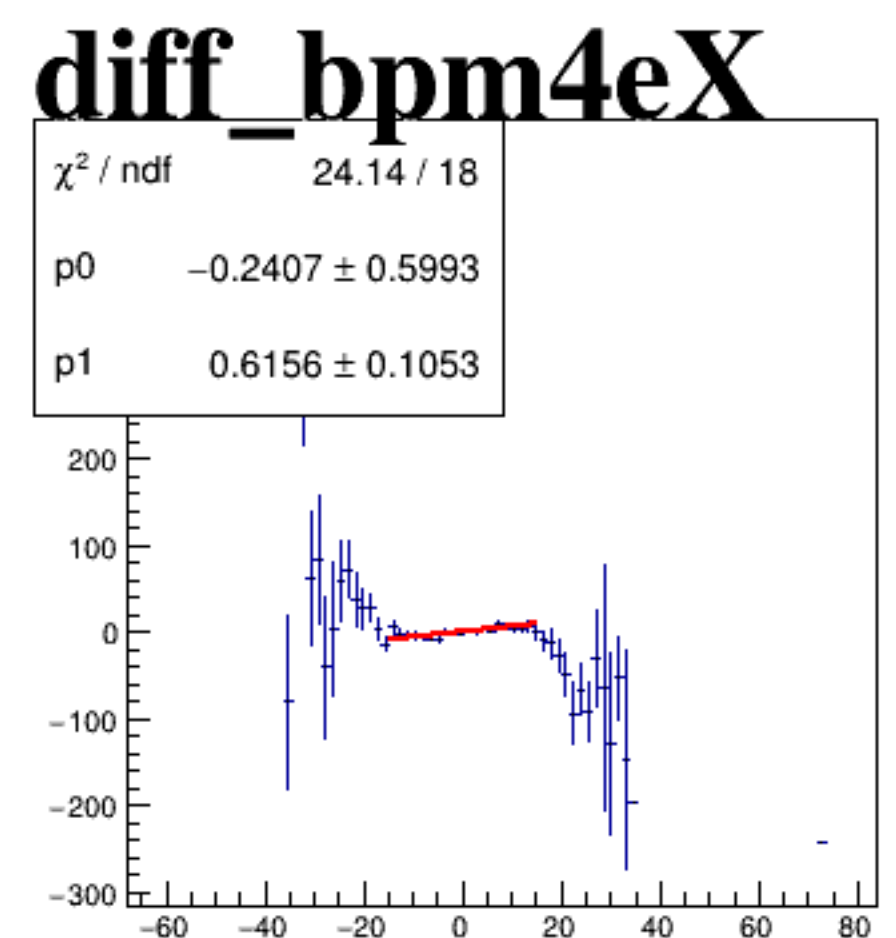
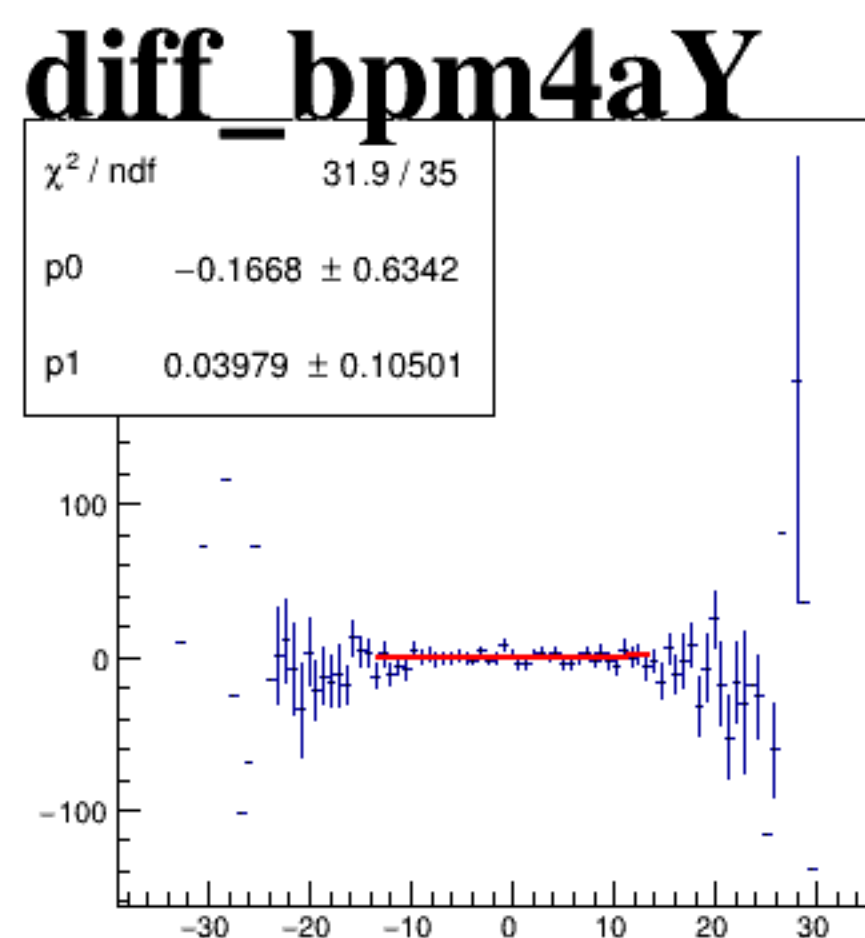
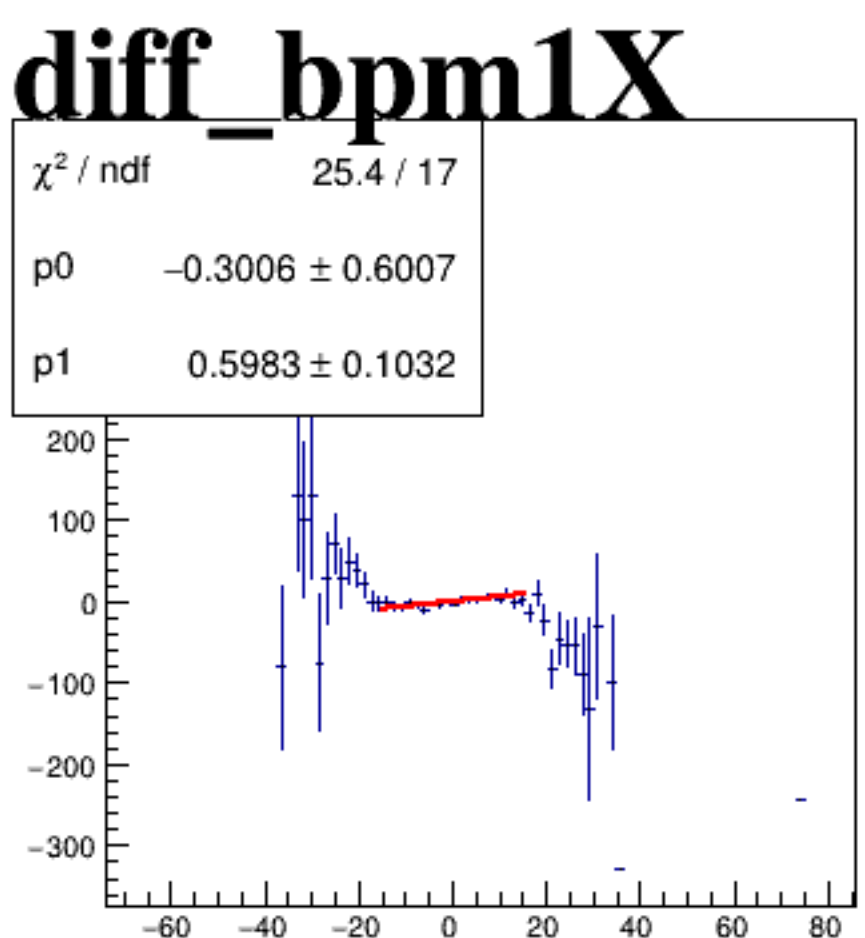
asym_sam7



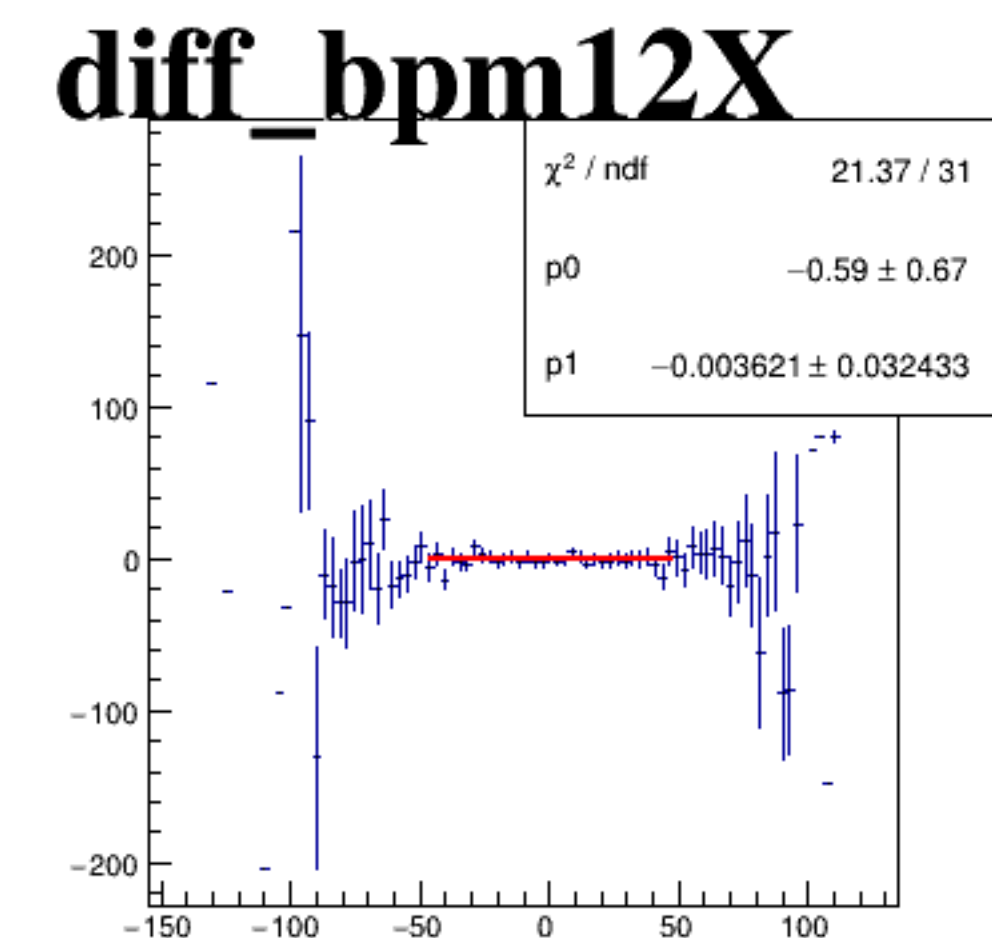
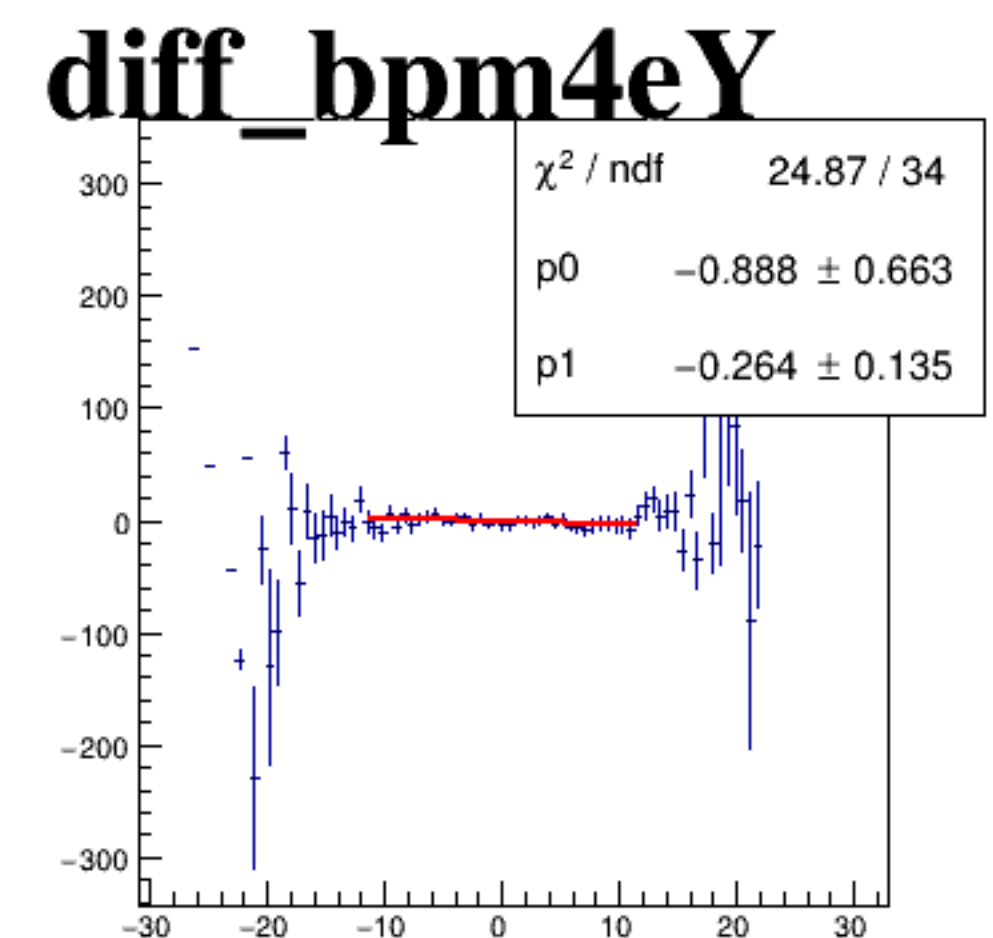
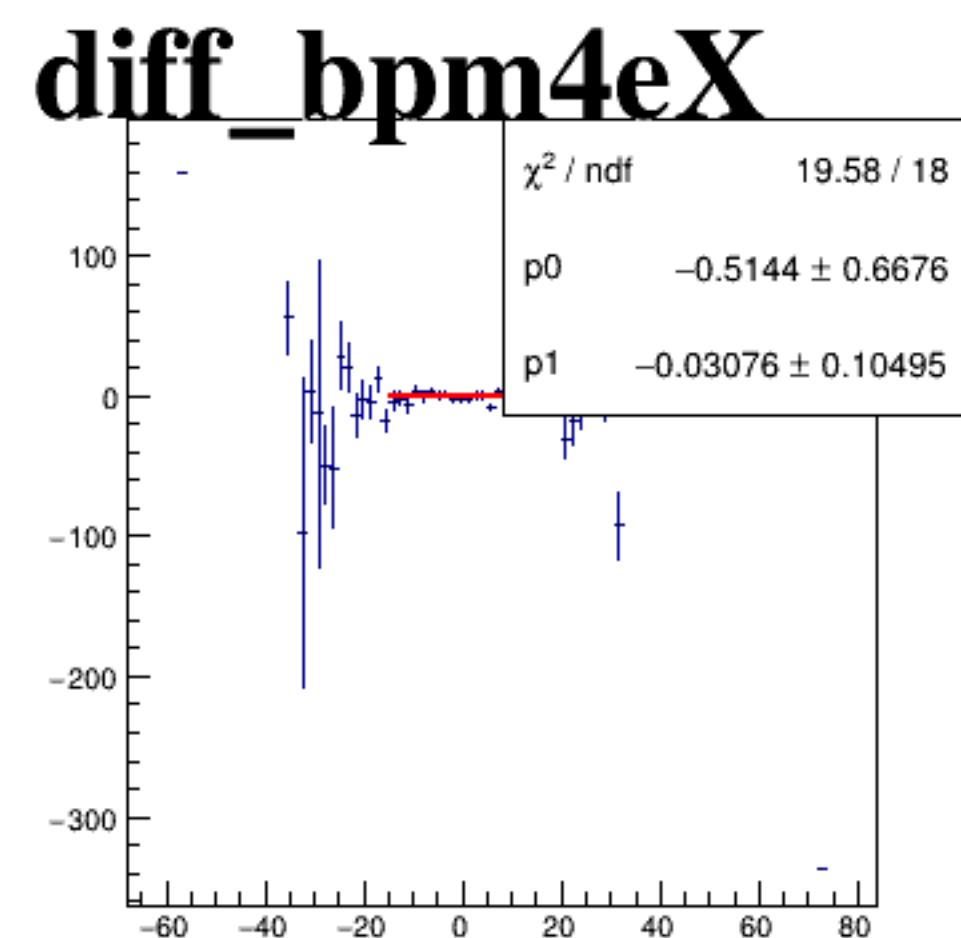
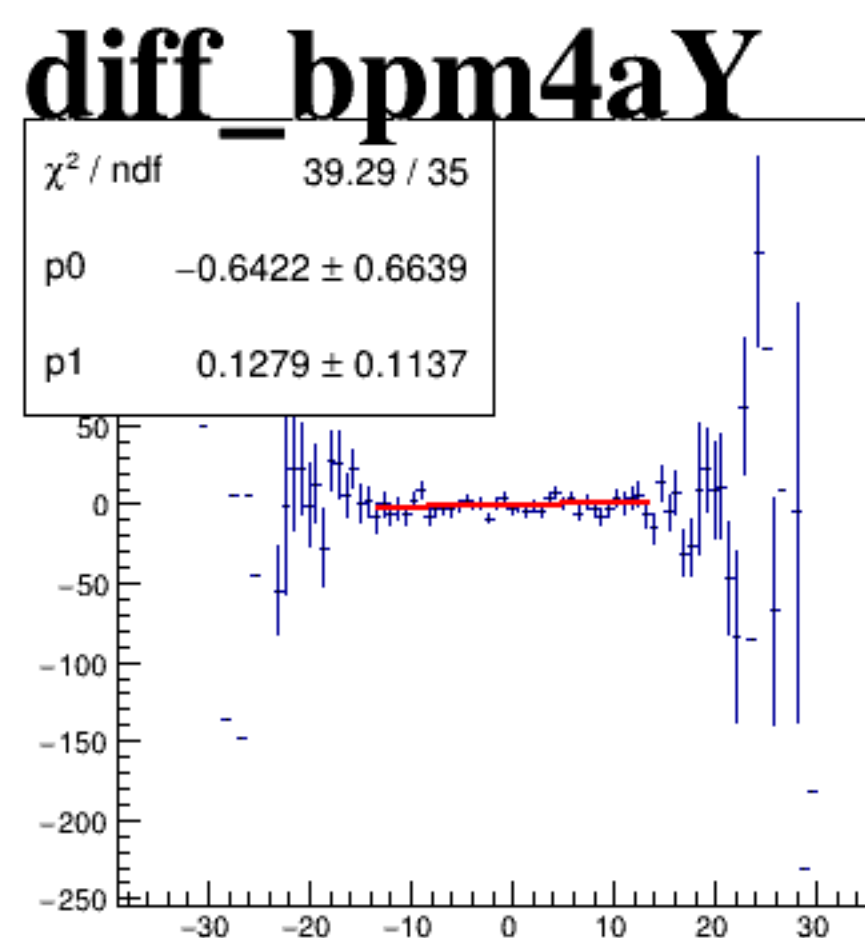
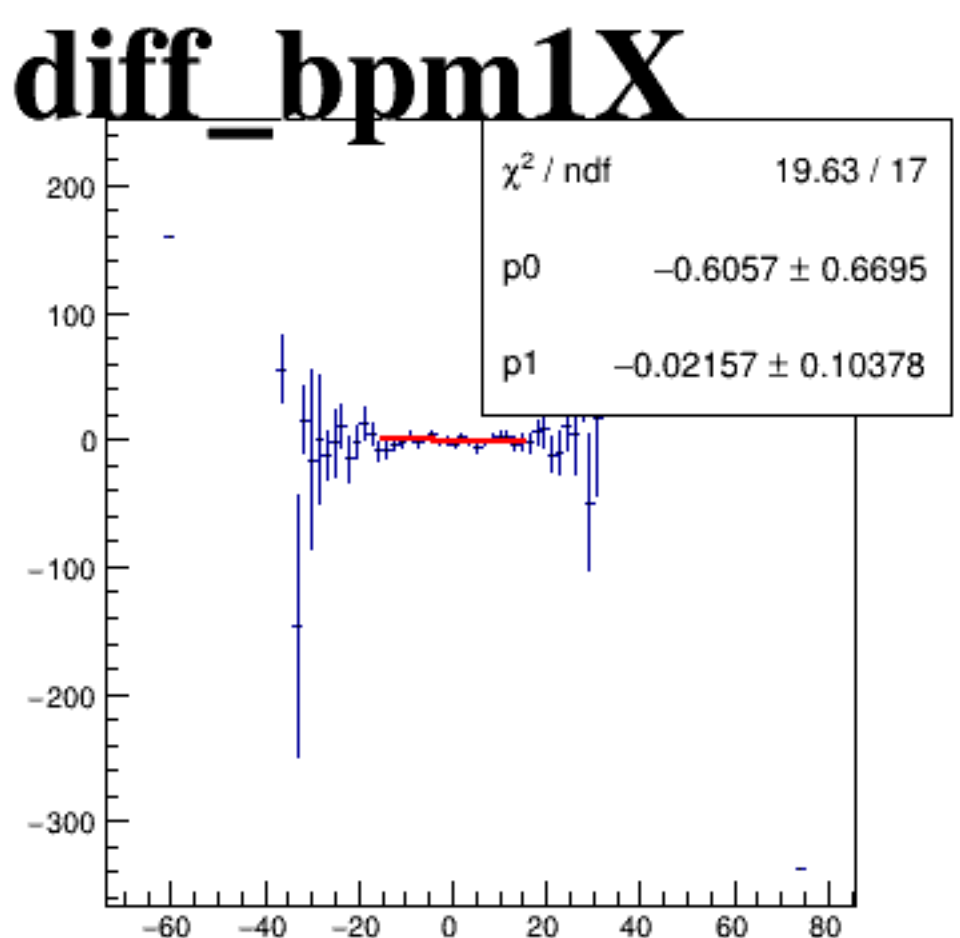
reg_asym_sam1



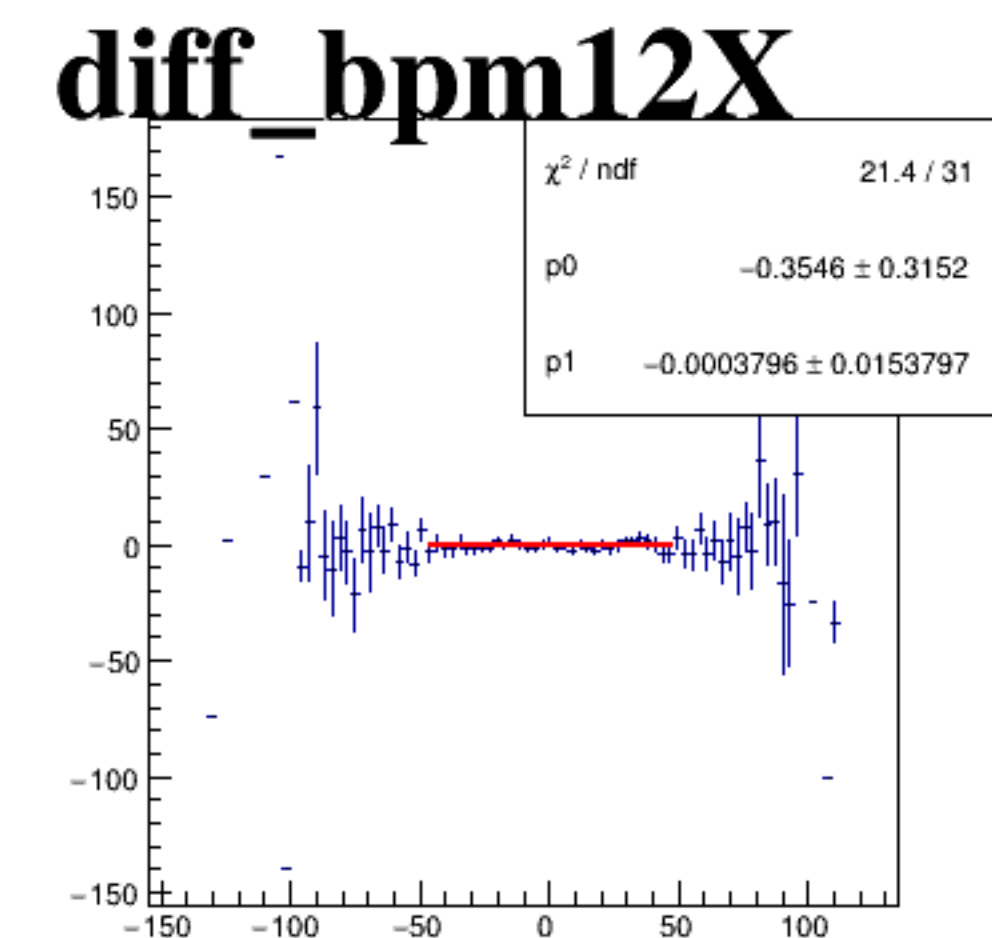
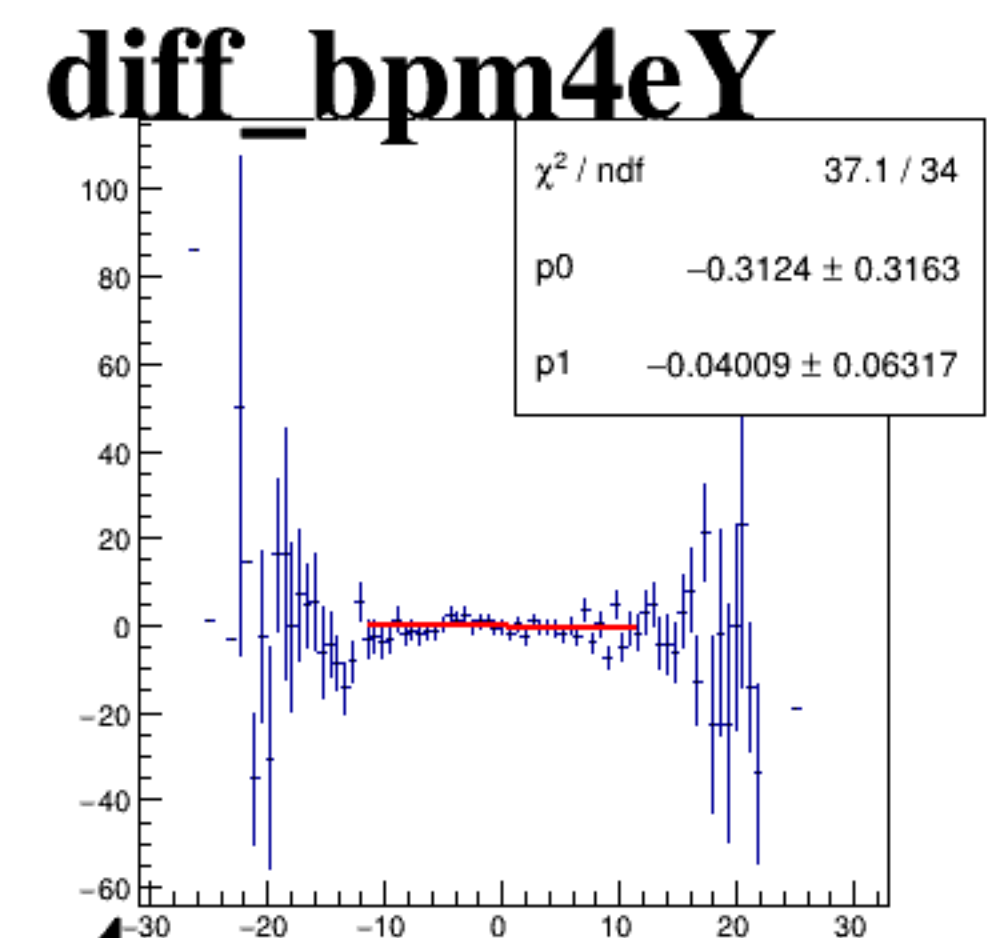
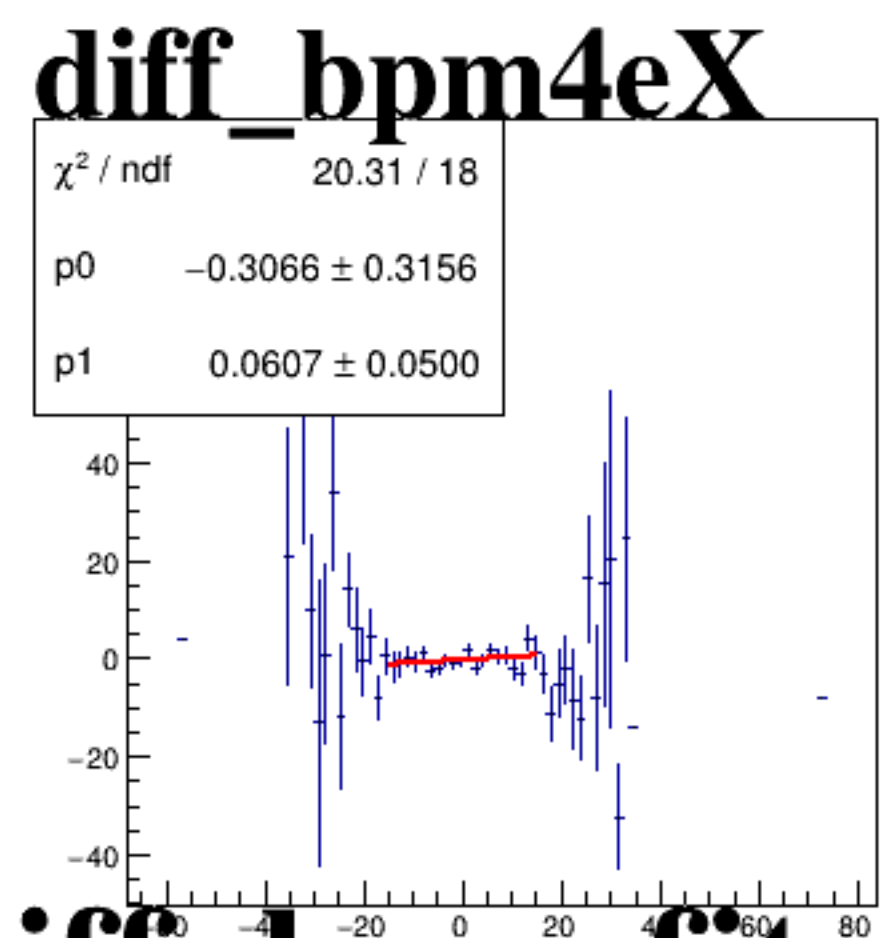
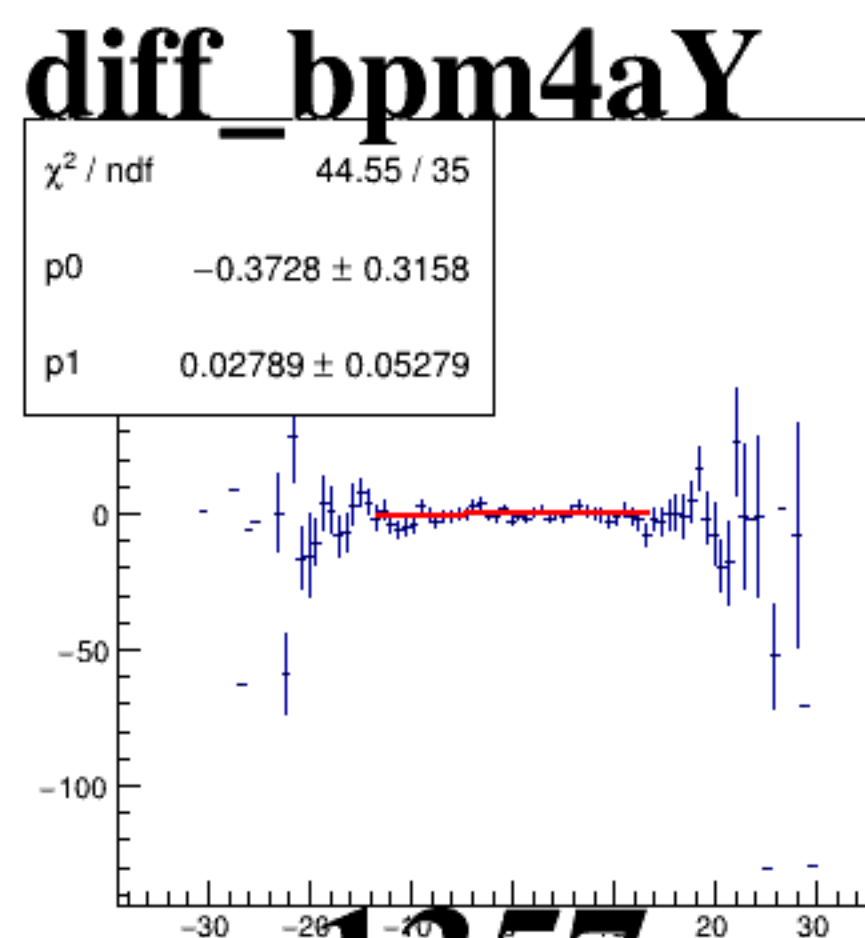
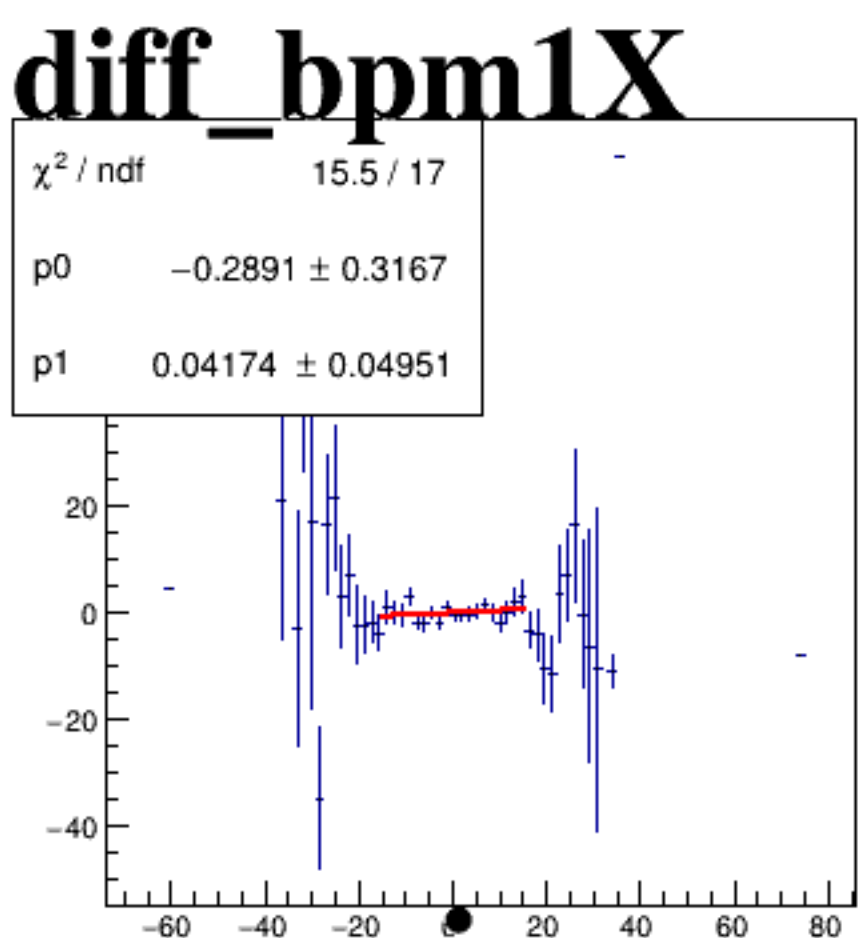
reg_asym_sam3



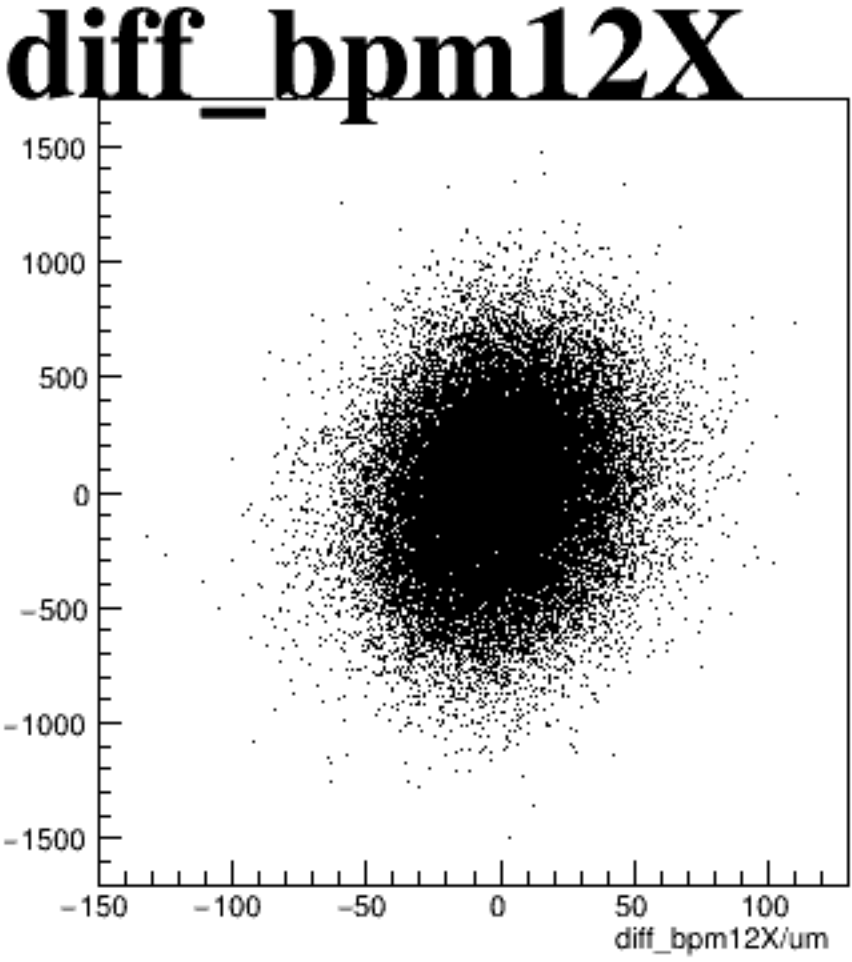
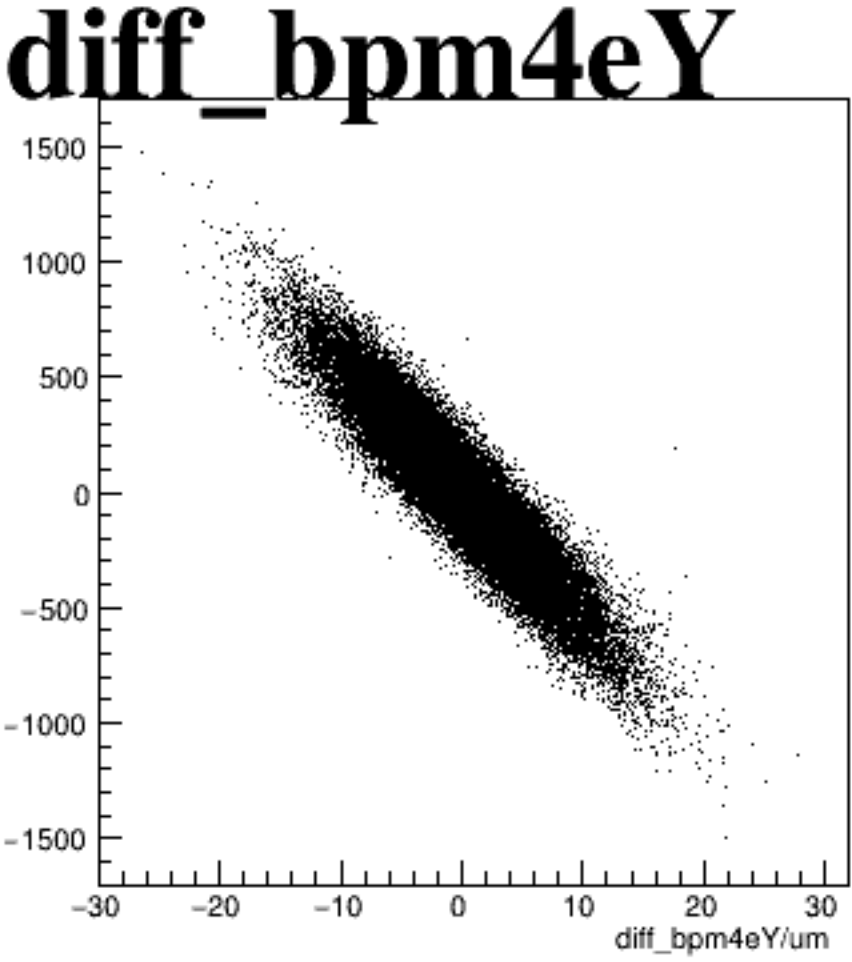
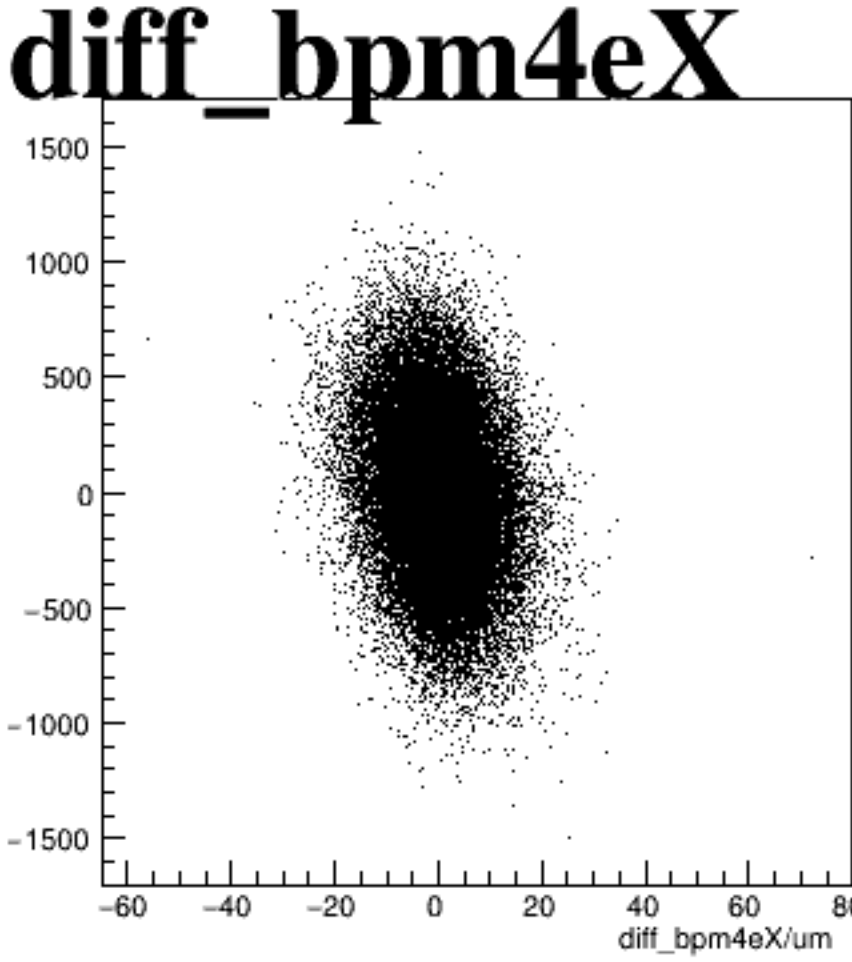
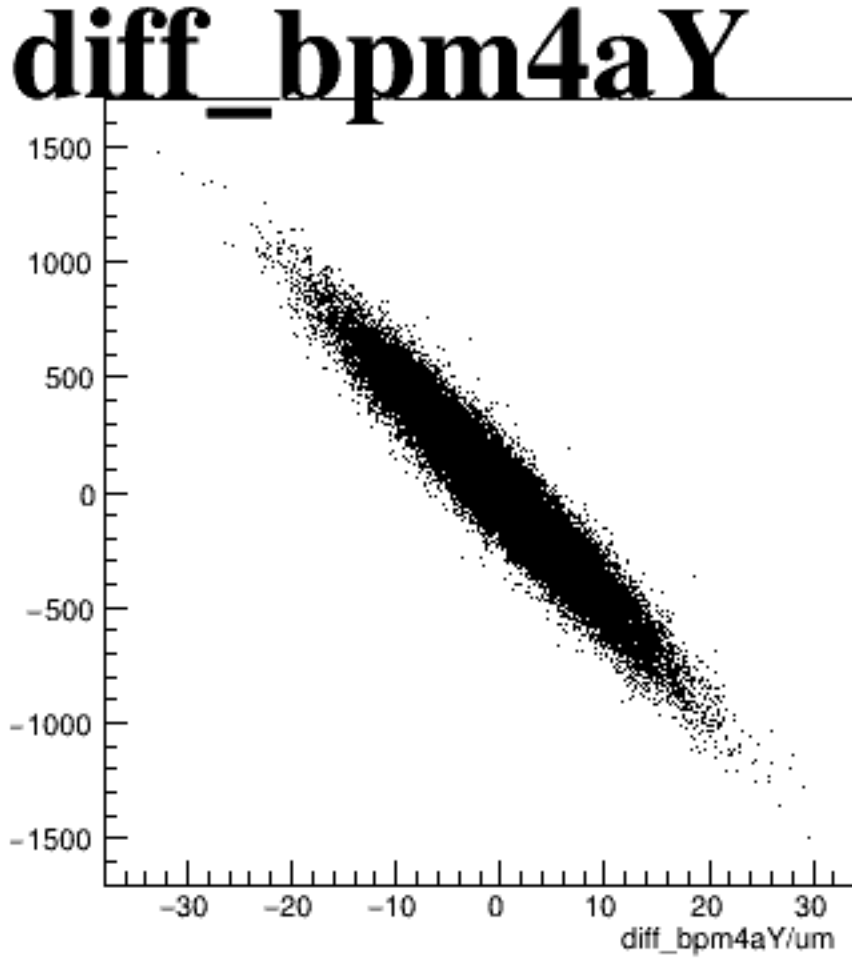
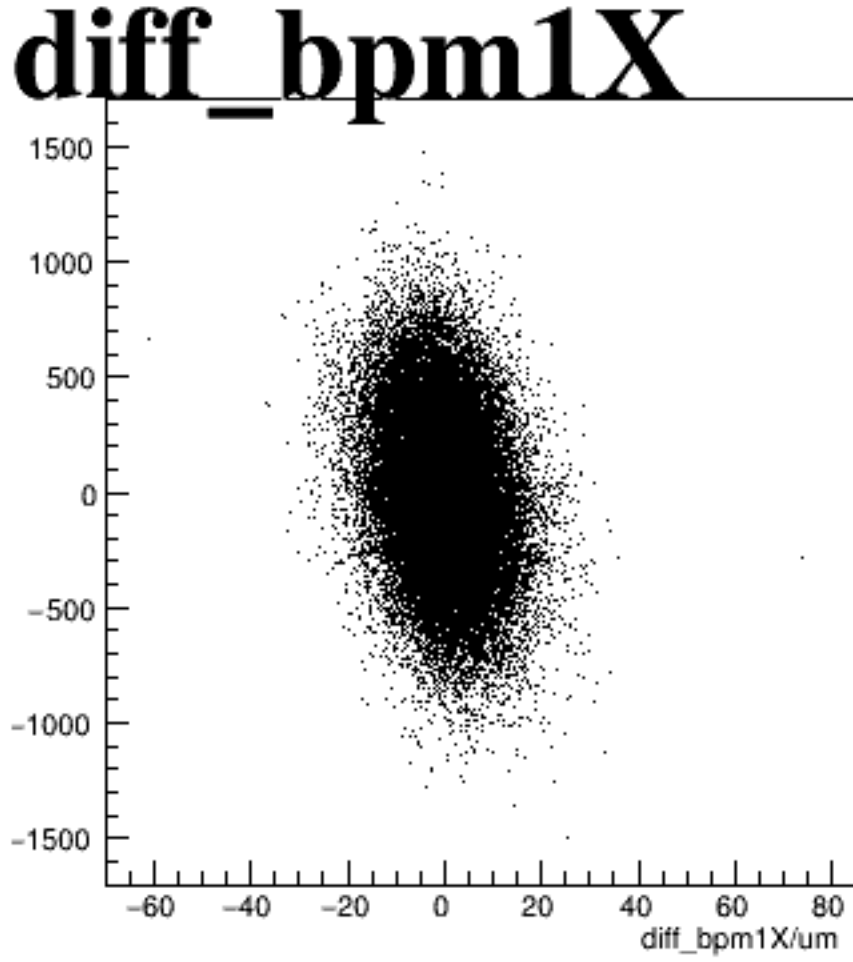
reg_asym_sam5



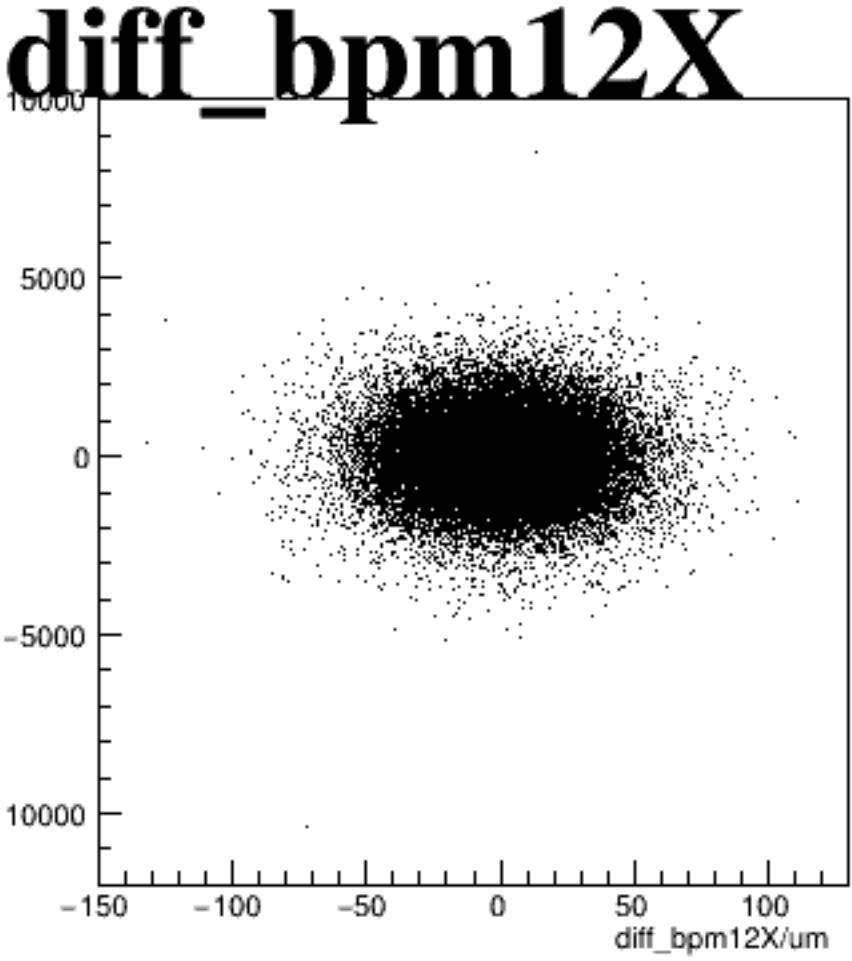
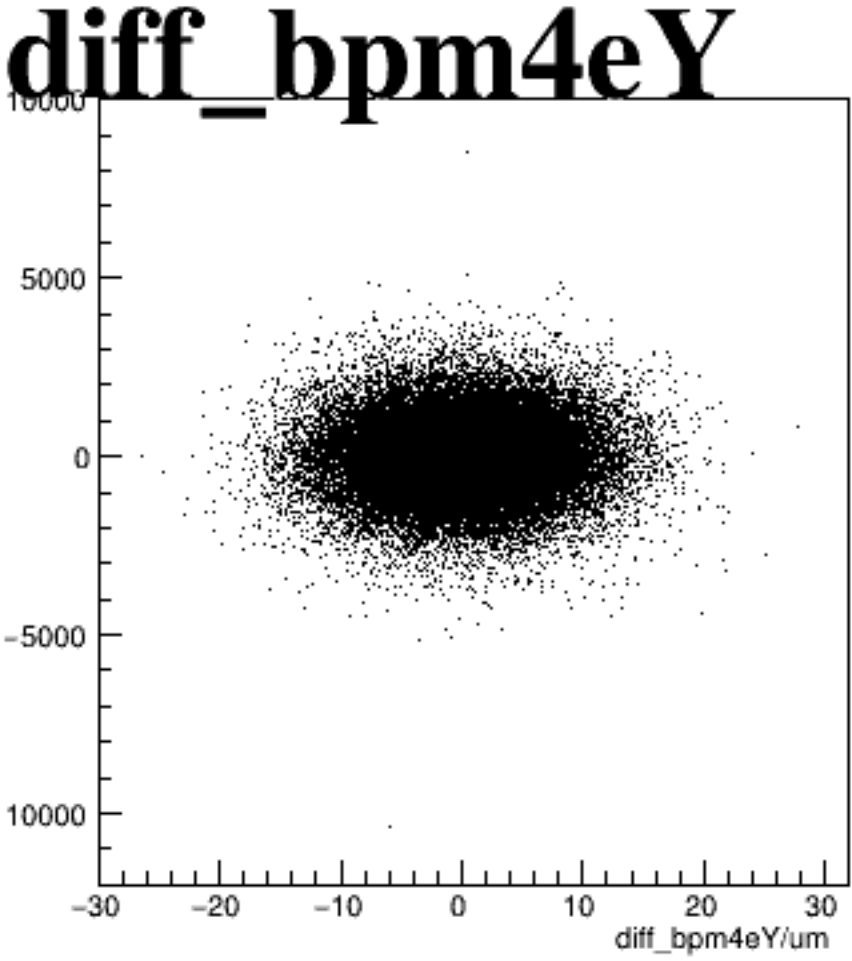
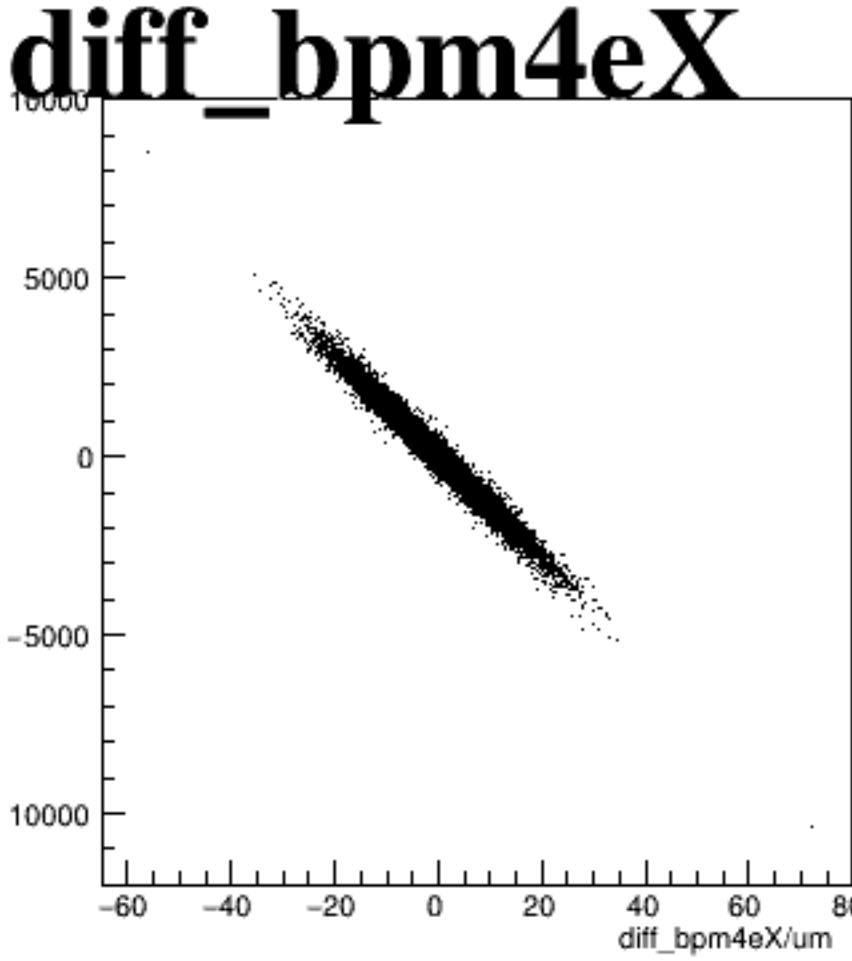
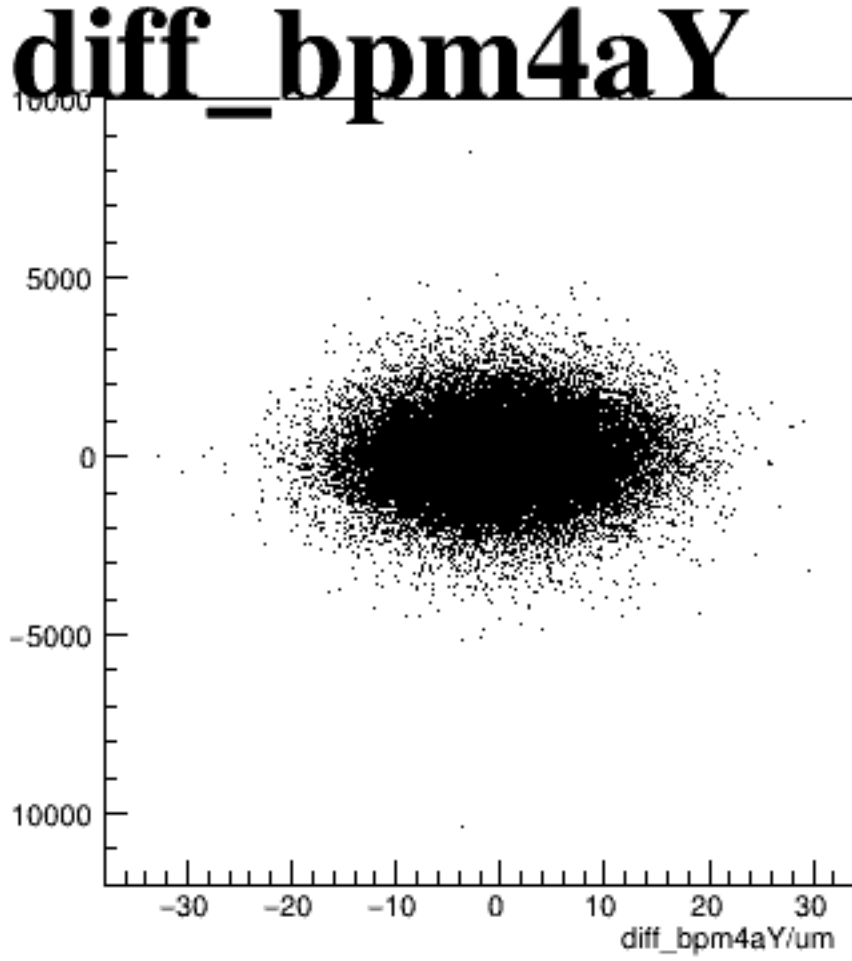
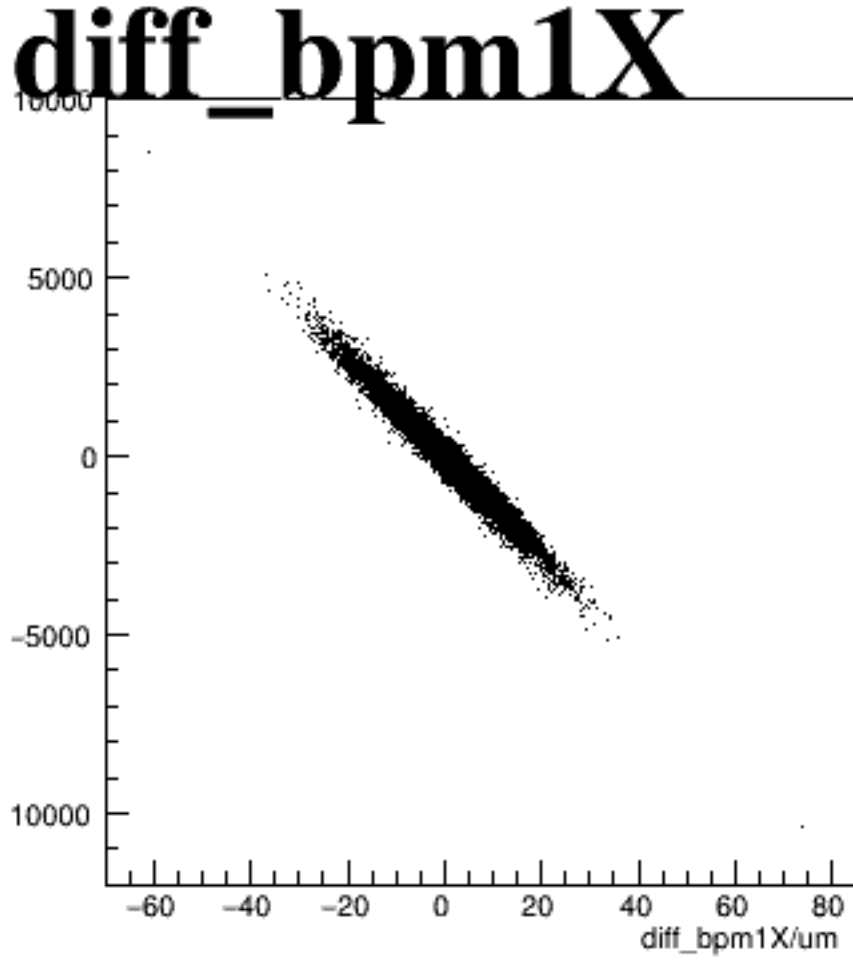
reg_asym_sam7



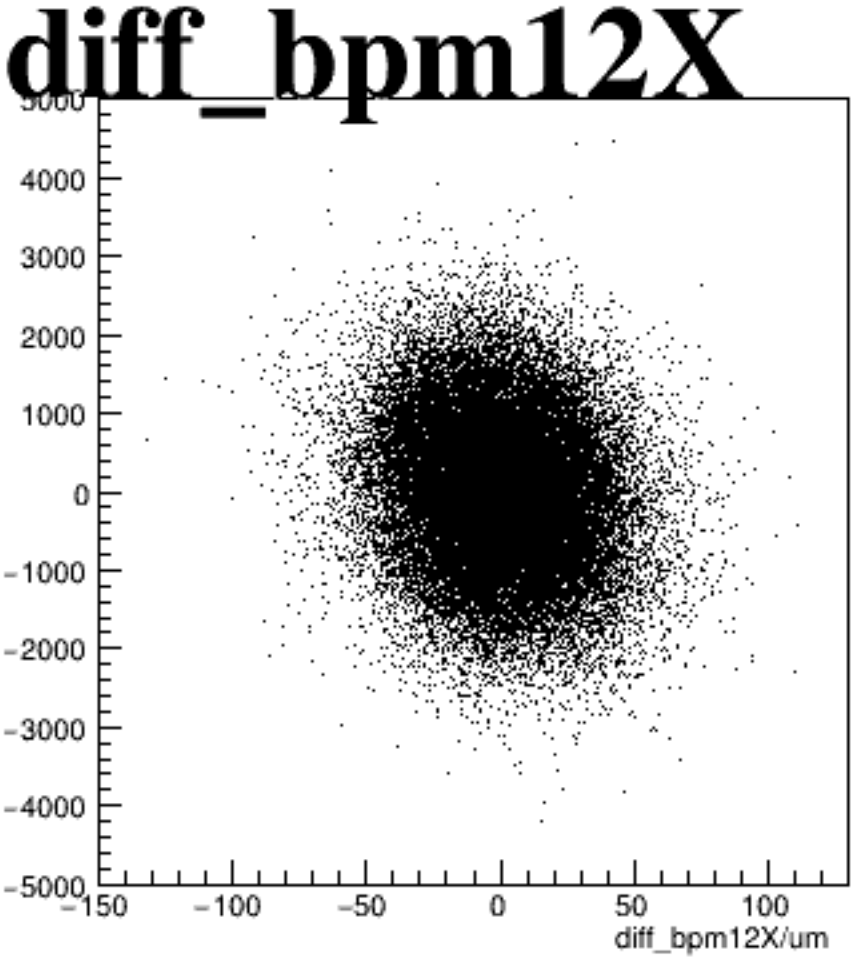
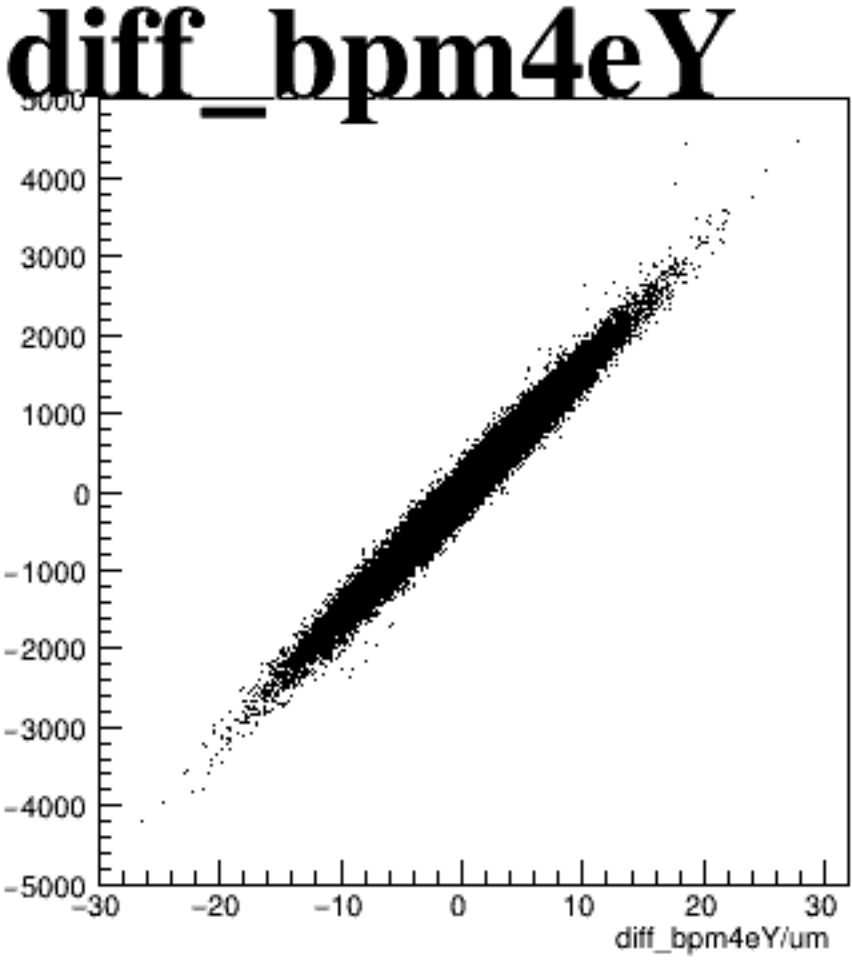
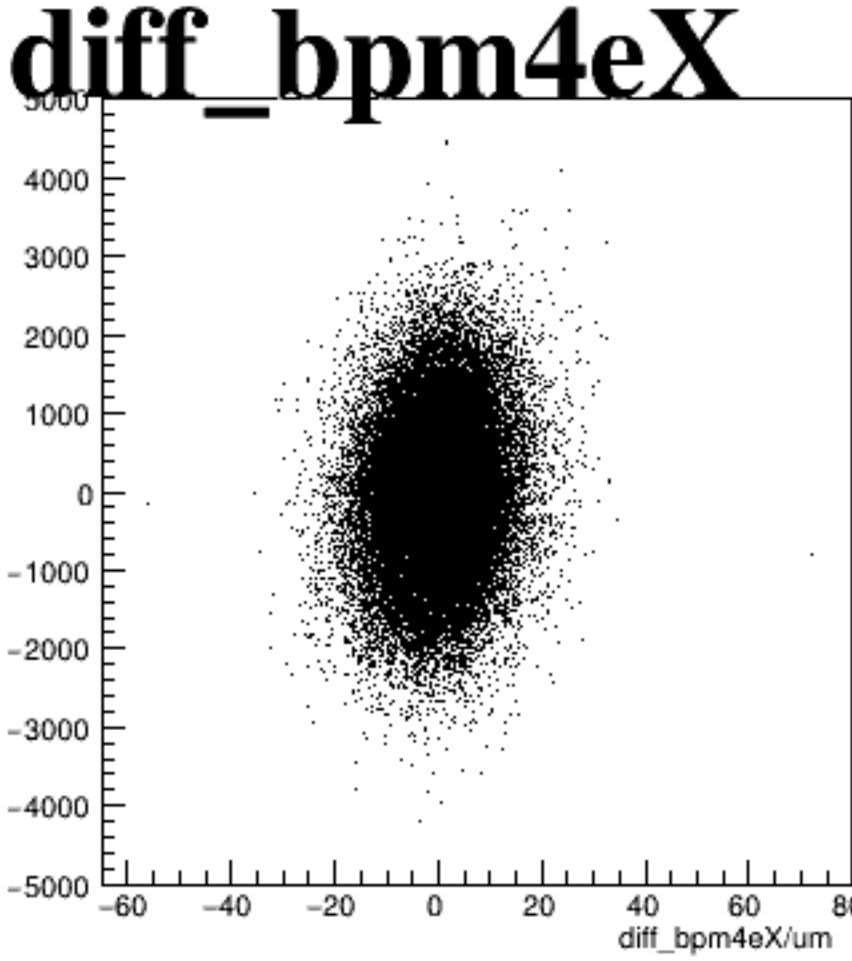
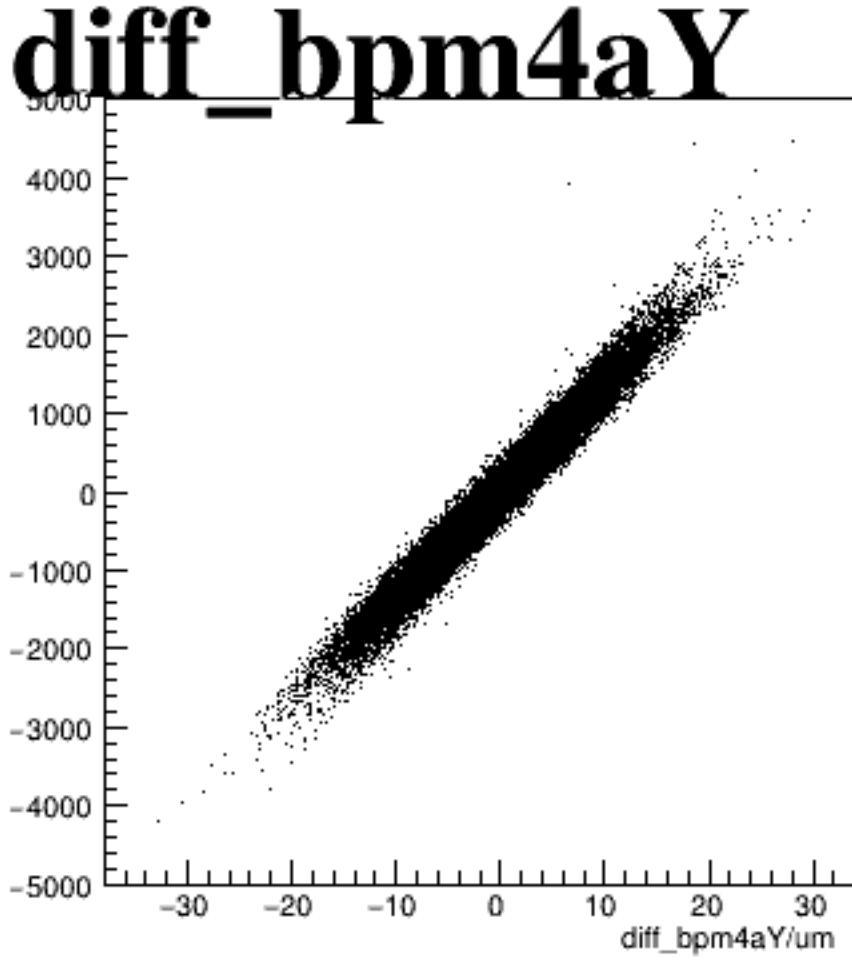
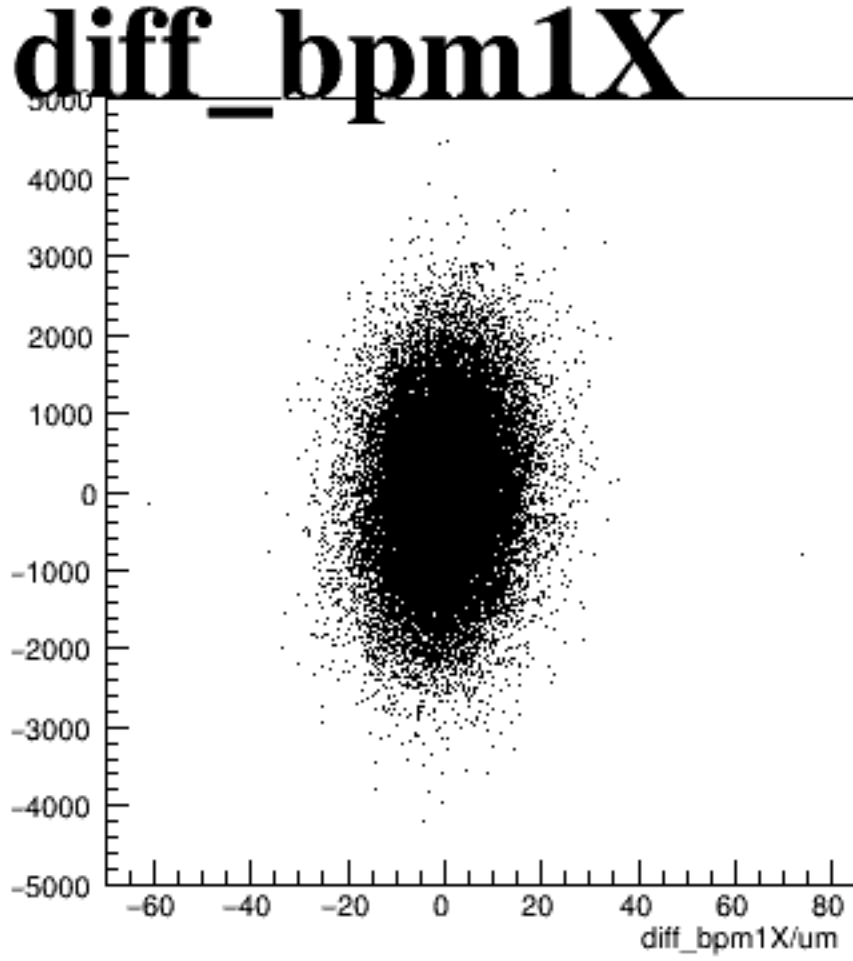
asym_sam1



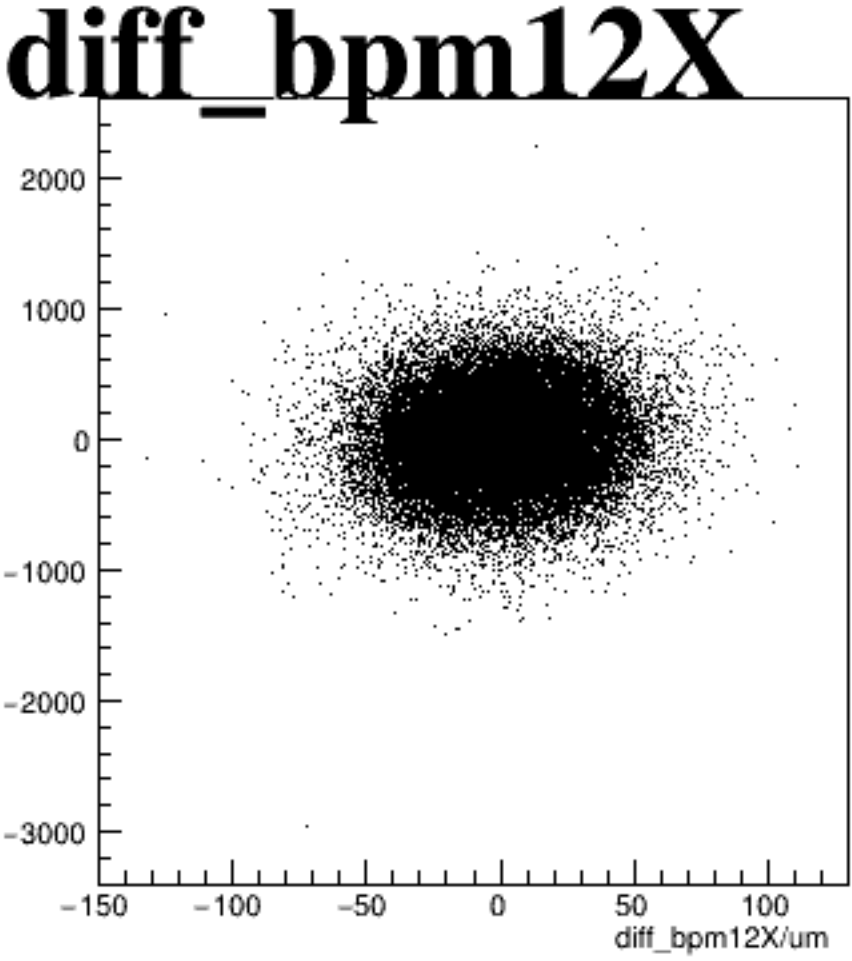
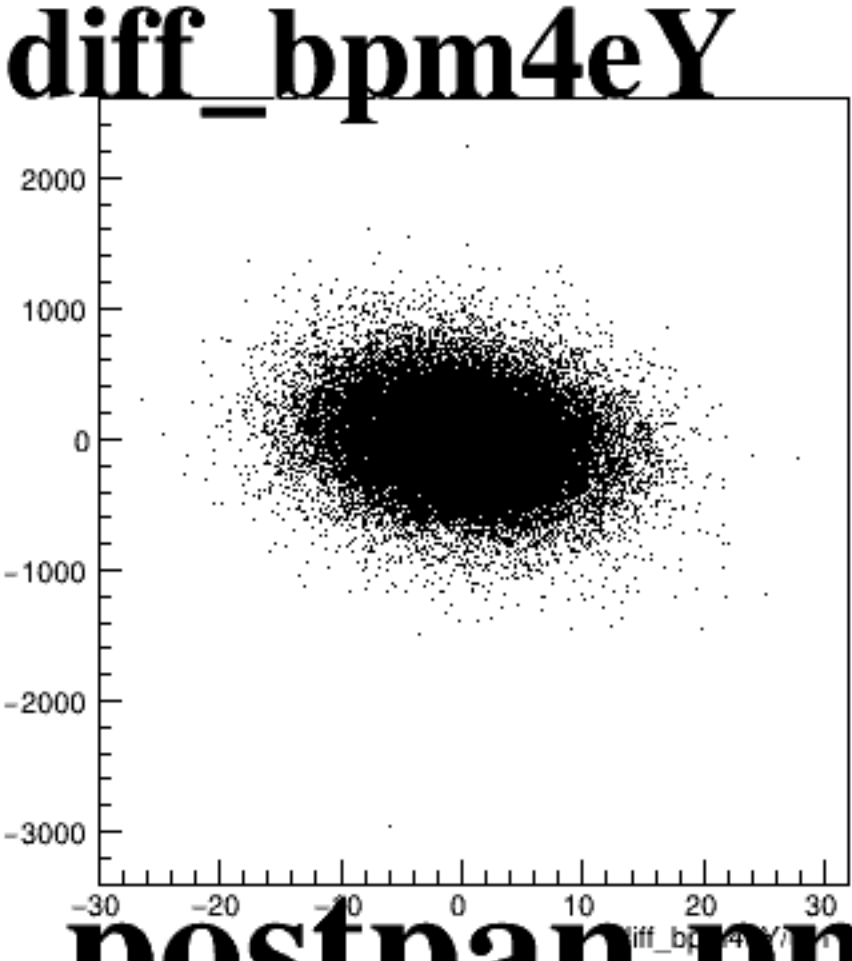
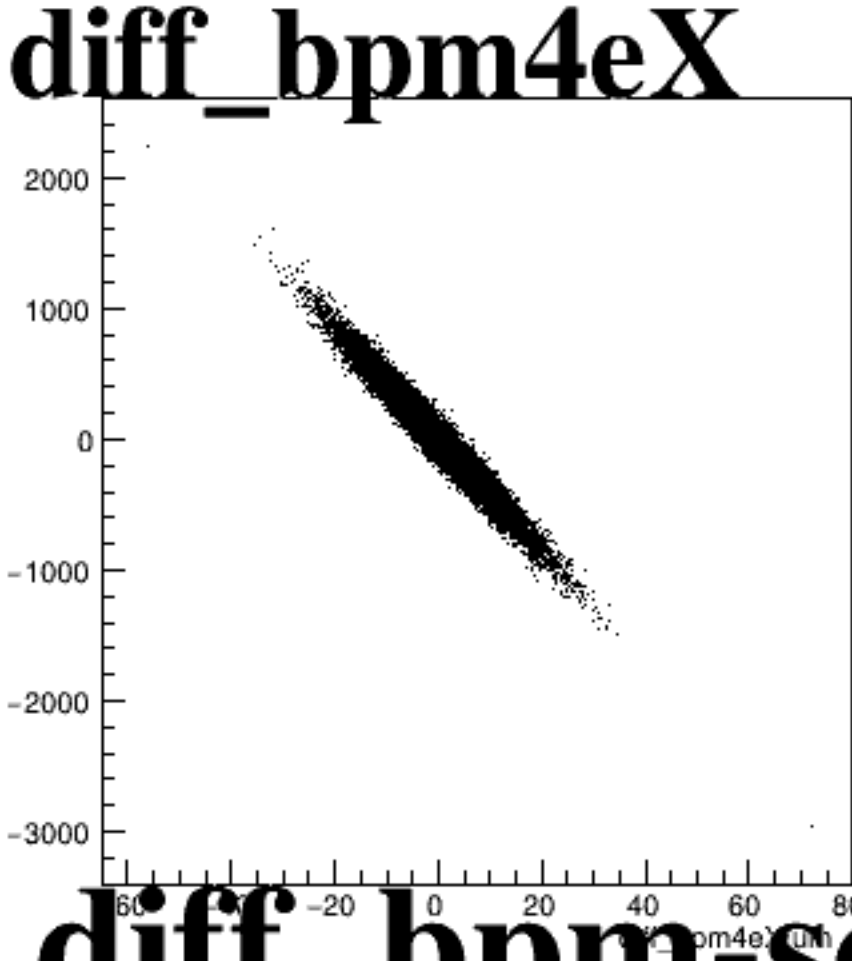
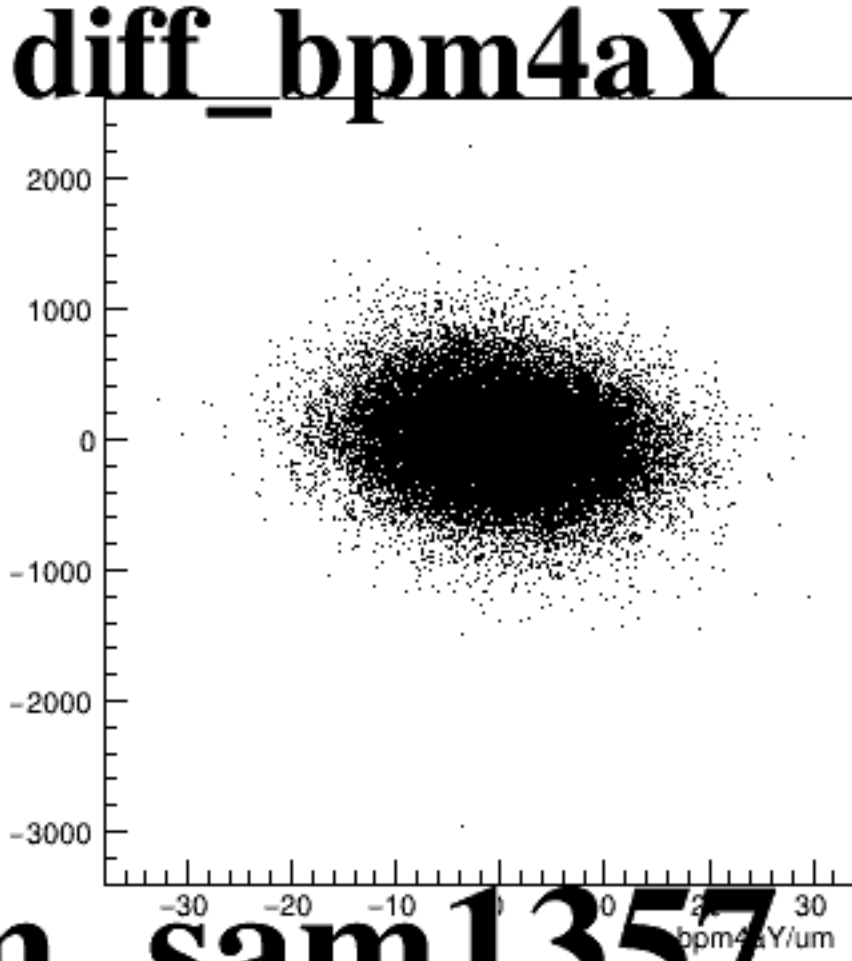
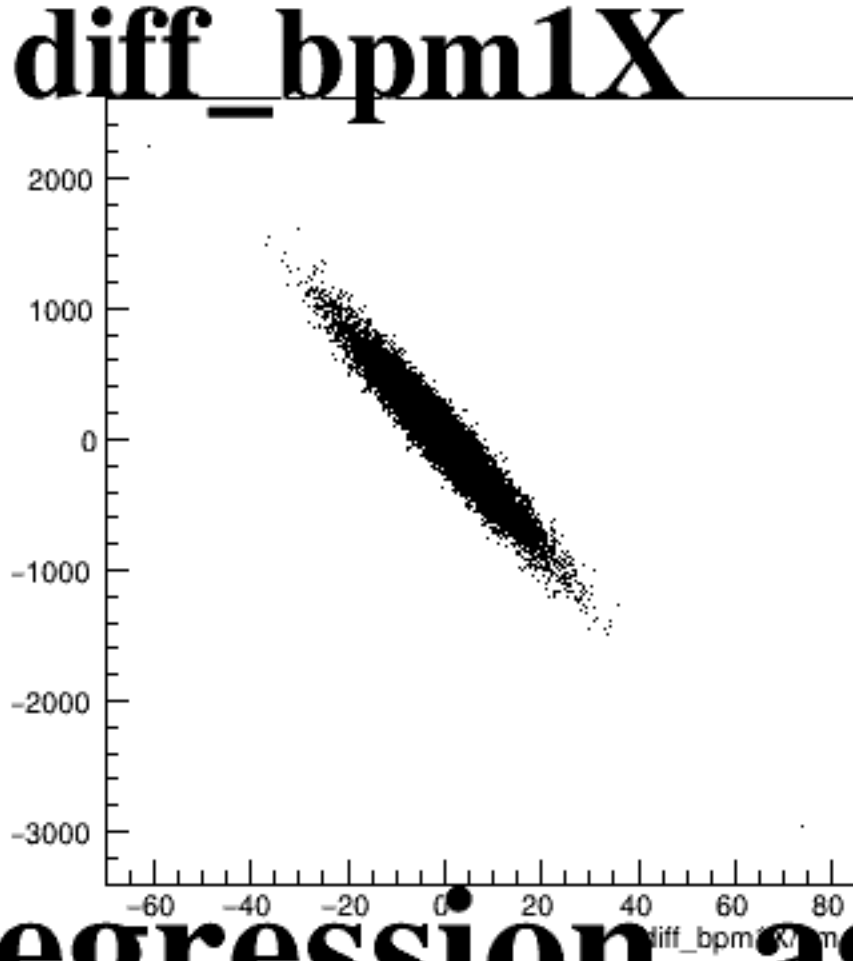
asym_sam3



asym_sam5



asym_sam7



The figure displays five scatter plots, each representing the difference in beam position monitors (diff_bpm) for a specific beam parameter. The plots are arranged horizontally. Each plot has a y-axis ranging from -1000 to 2000 and an x-axis ranging from -60 to 80. The data points are clustered around the origin, indicating small differences in beam position.

- diff_bpm1X**: The x-axis is labeled "diff_bpm1X/um".
- diff_bpm4aY**: The x-axis is labeled "diff_bpm4aY/um".
- diff_bpm4eX**: The x-axis is labeled "diff_bpm4eX/um".
- diff_bpm4eY**: The x-axis is labeled "diff_bpm4eY/um".
- diff_bpm12X**: The x-axis is labeled "diff_bpm12X/um".

The figure displays five scatter plots, each representing the difference between a specific BPM measurement and the corresponding regression result. The plots are arranged horizontally and labeled as follows:

- diff_bpm1X**: Shows the difference for the first BPM's X-coordinate. The x-axis ranges from -60 to 80, and the y-axis ranges from -300 to 200.
- diff_bpm4aY**: Shows the difference for the fourth BPM's Y-coordinate. The x-axis ranges from -30 to 30, and the y-axis ranges from -300 to 200.
- diff_bpm4eX**: Shows the difference for the fourth BPM's X-coordinate. The x-axis ranges from -40 to 80, and the y-axis ranges from -300 to 200.
- diff_bpm4eY**: Shows the difference for the fourth BPM's Y-coordinate. The x-axis ranges from -30 to 30, and the y-axis ranges from -300 to 200.
- diff_bpm12X**: Shows the difference for the twelfth BPM's X-coordinate. The x-axis ranges from -150 to 100, and the y-axis ranges from -300 to 200.

In all plots, the data points are tightly clustered around the zero line on the y-axis, indicating that the regression model accurately predicts the BPM measurements. The x-axis for each plot represents the regression result for that parameter.