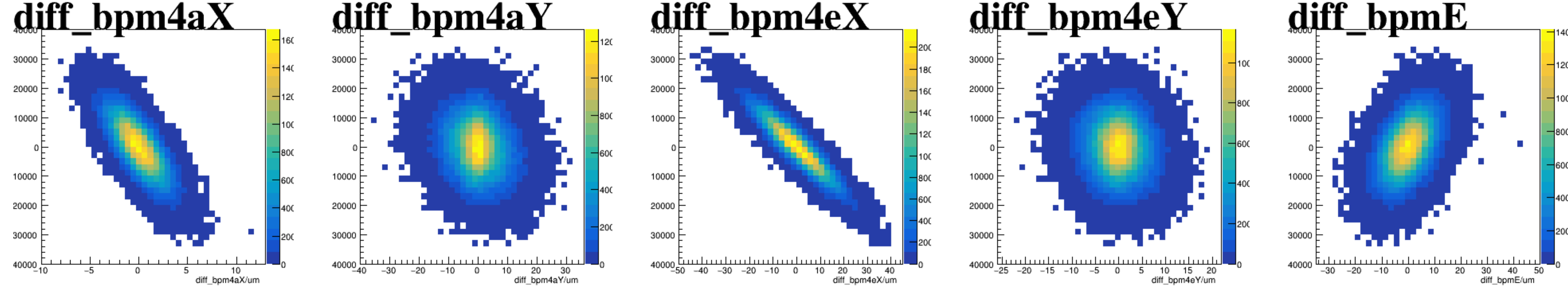
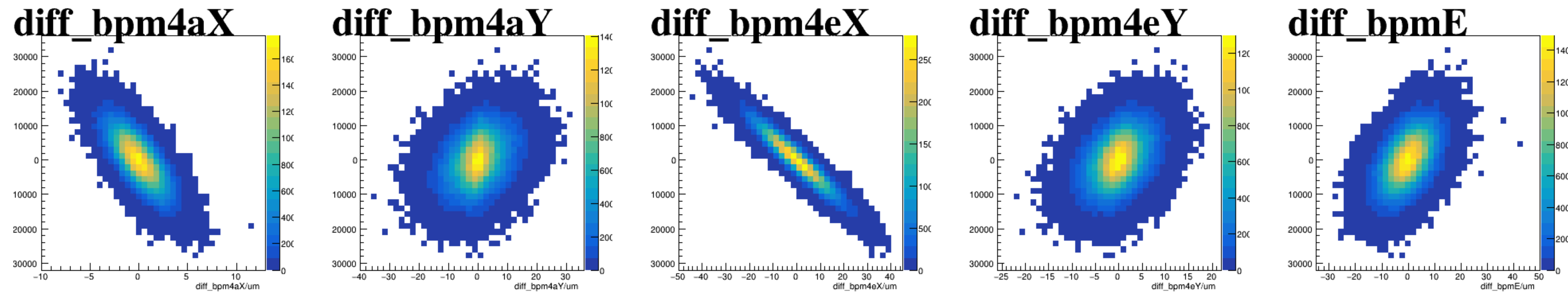


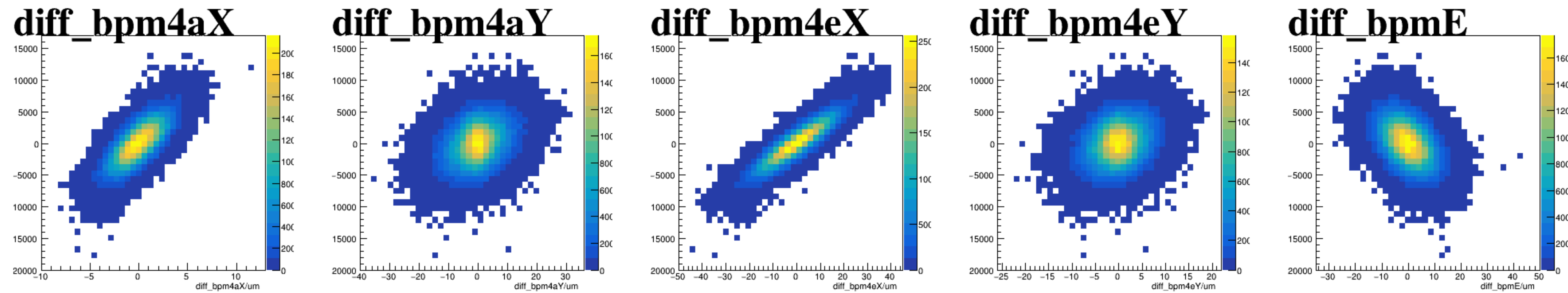
asym_sam2



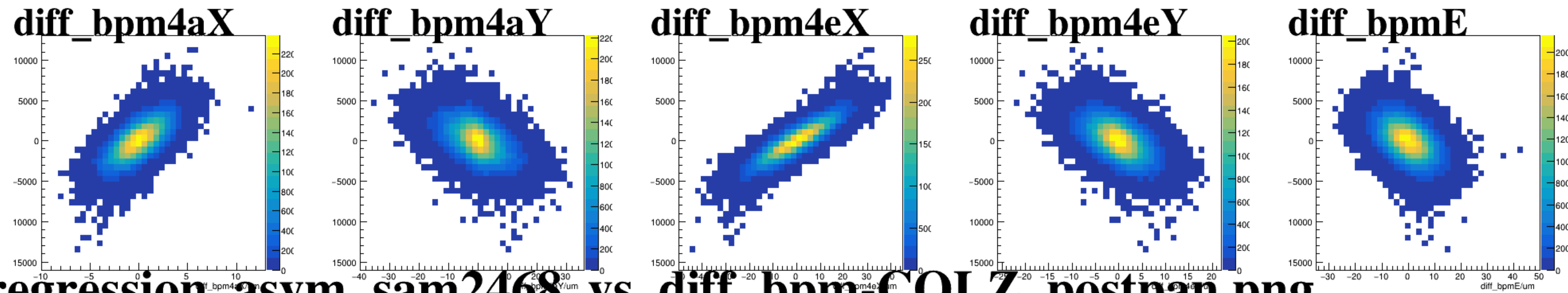
asym_sam4



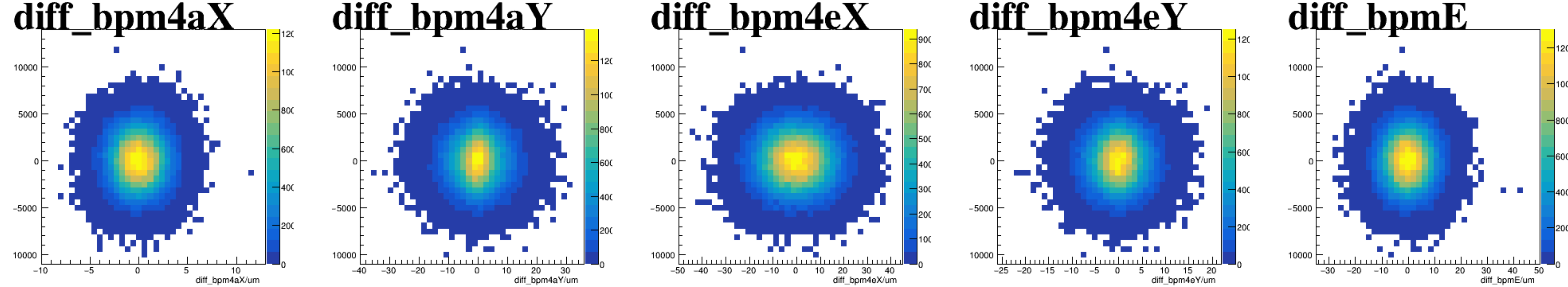
asym_sam6



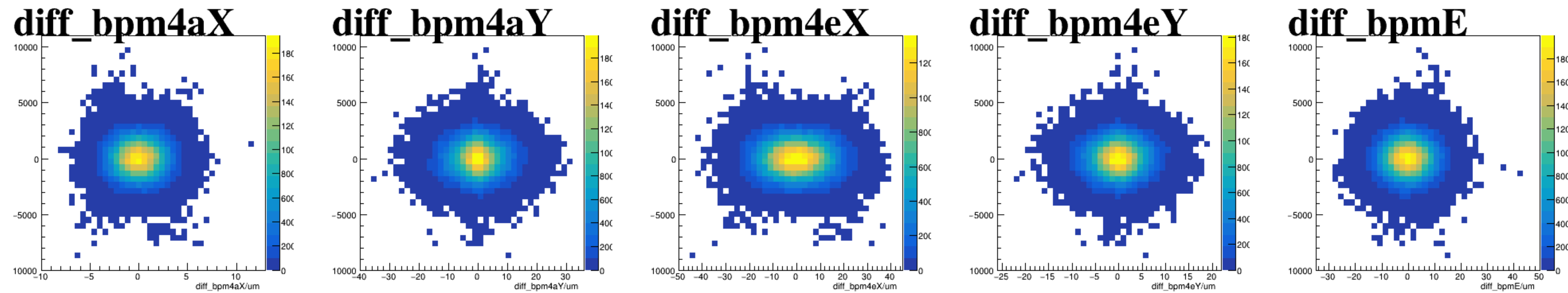
asym_sam8



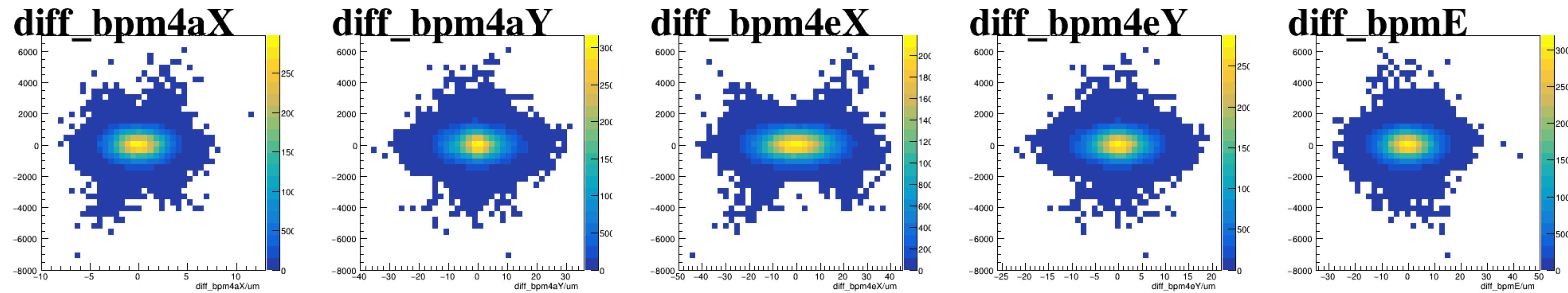
reg_asym_sam2



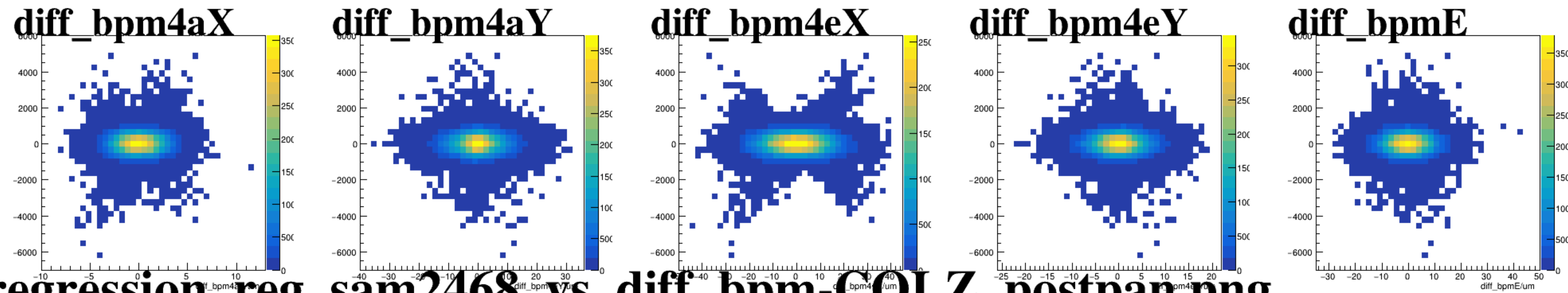
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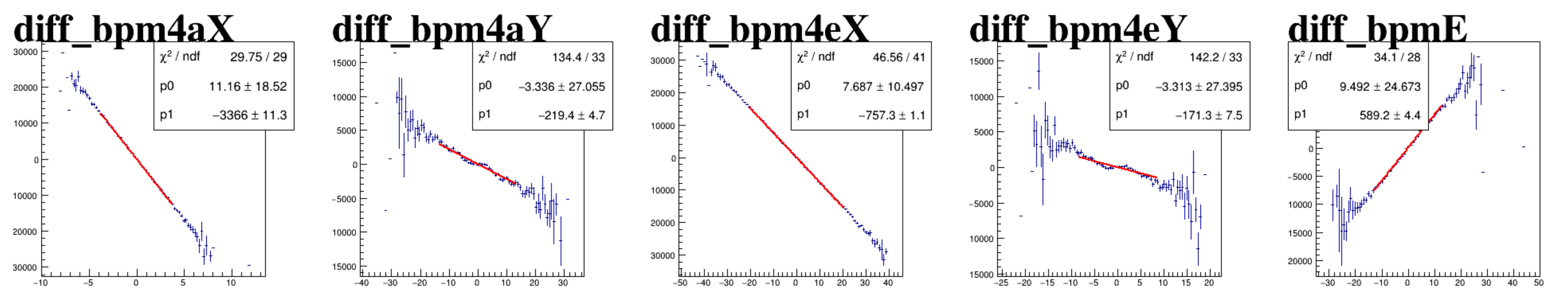
reg_asym_sam6



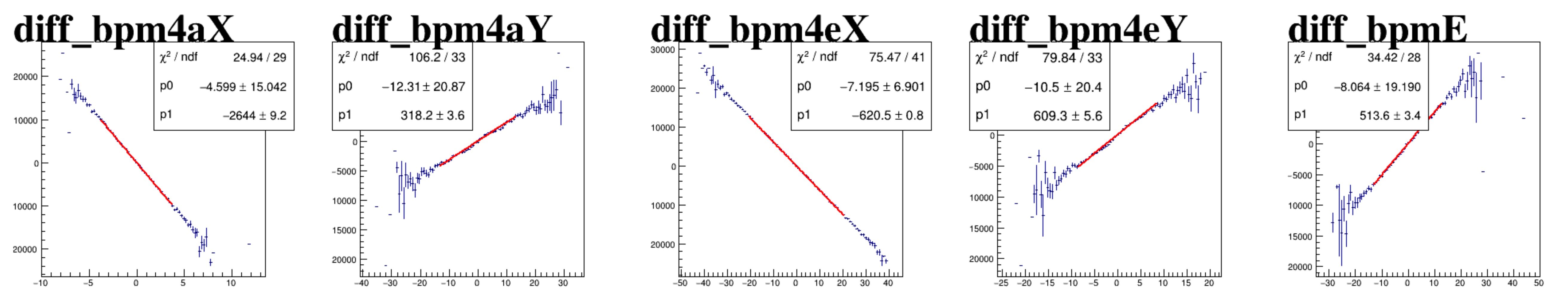
reg_asym_sam8



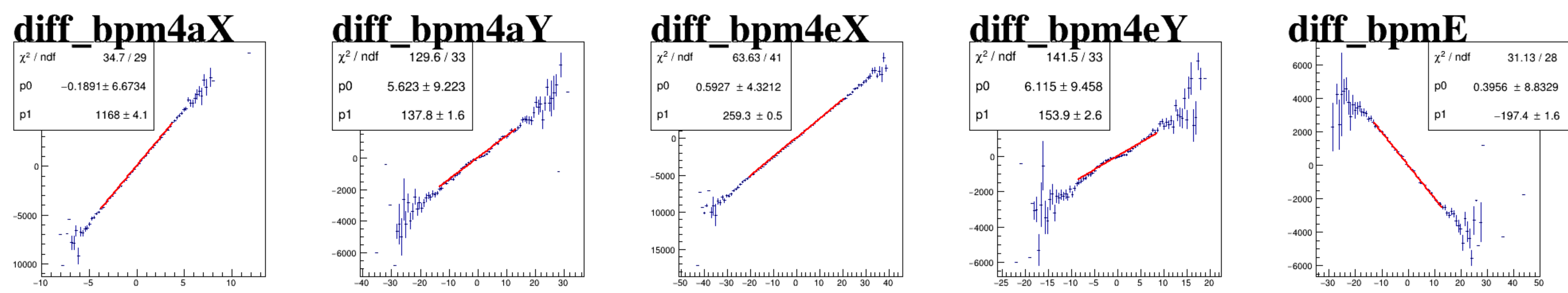
asym_sam2



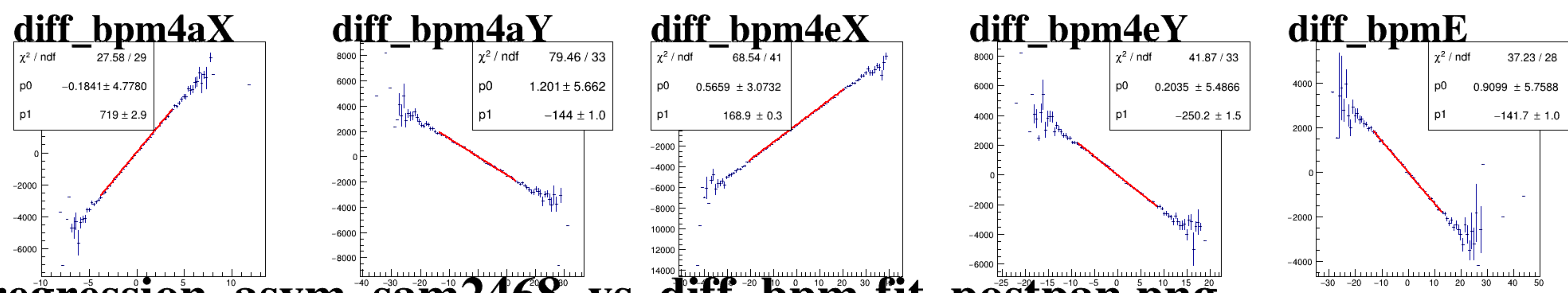
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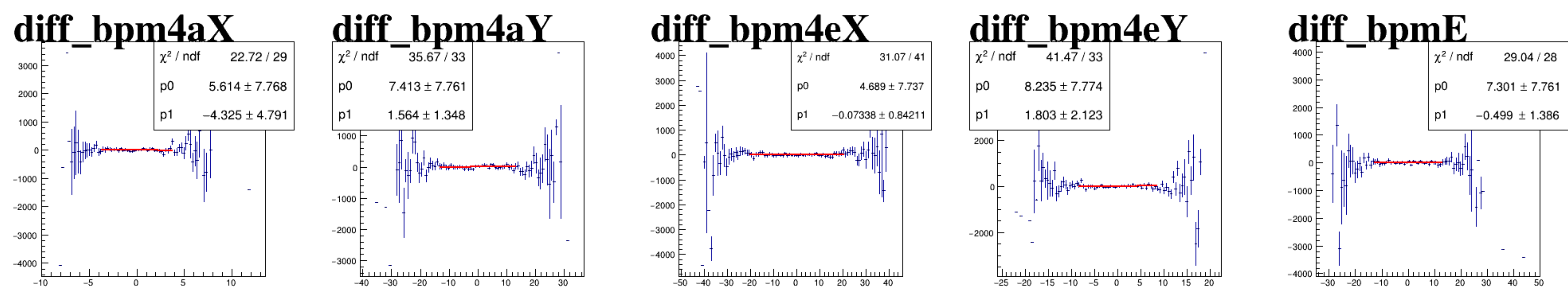
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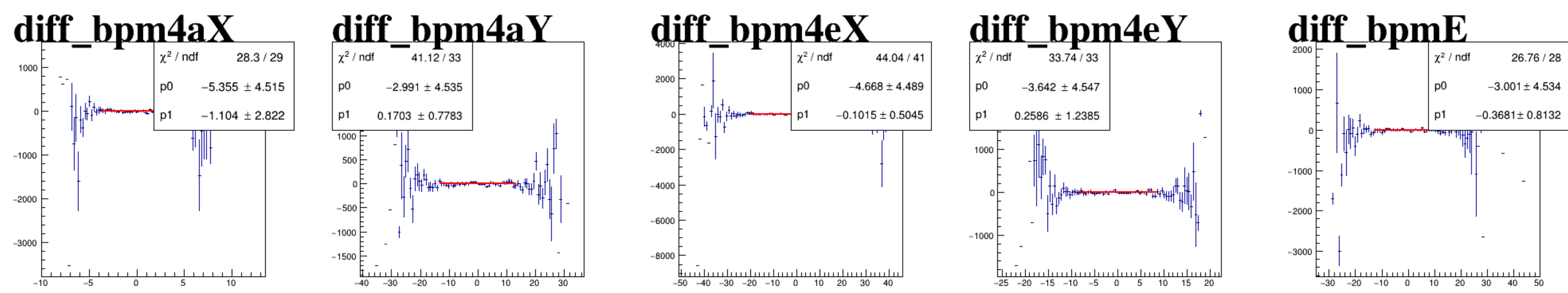
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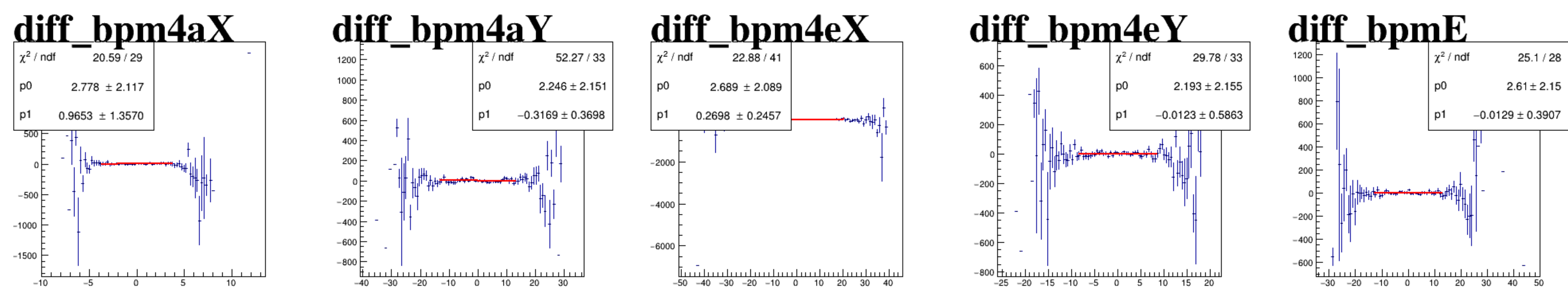
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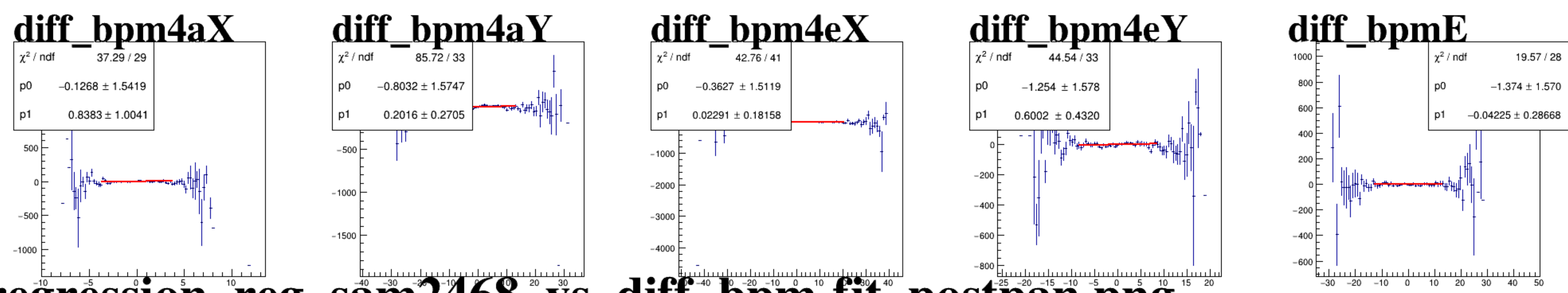
reg_asym_sam4



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 a specific beam parameter. The y-axis for all plots is labeled 'diff_bpm4aX/um' and ranges from -30000 to 30000. The x-axis for each plot is labeled with the parameter name and ranges from -10 to 10 for diff_bpm4aX, -40 to 30 for diff_bpm4aY, -50 to 40 for diff_bpm4eX, -25 to 20 for diff_bpm4eY, and -30 to 50 for diff_bpmE.

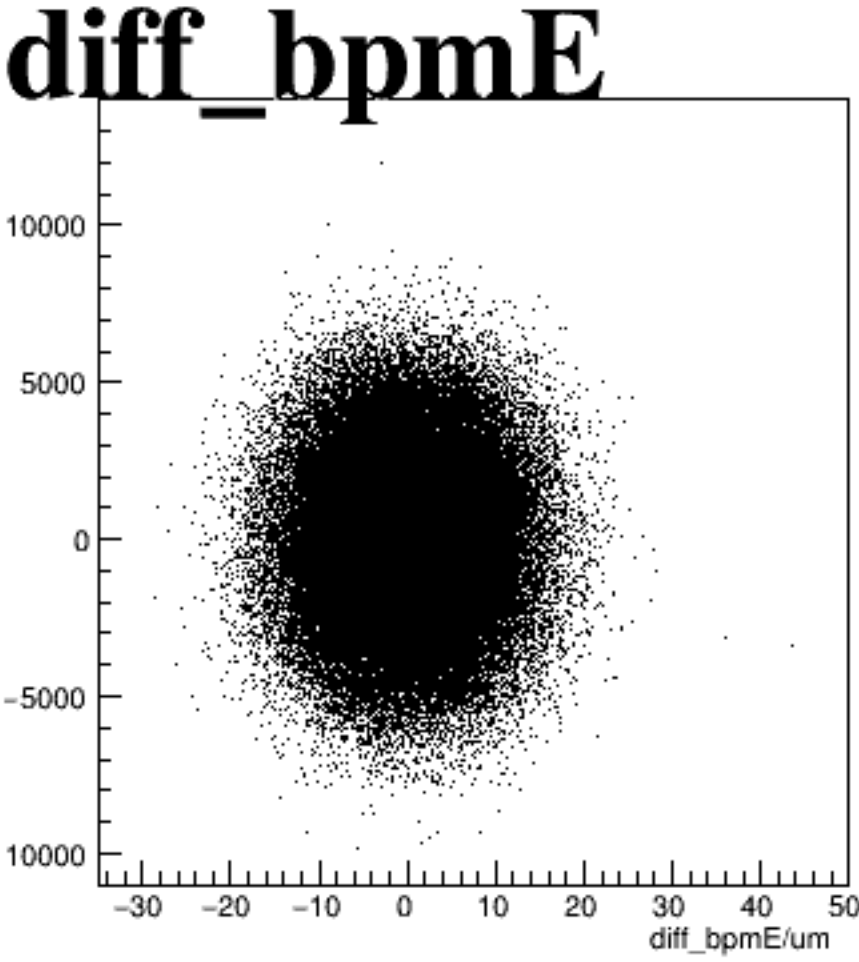
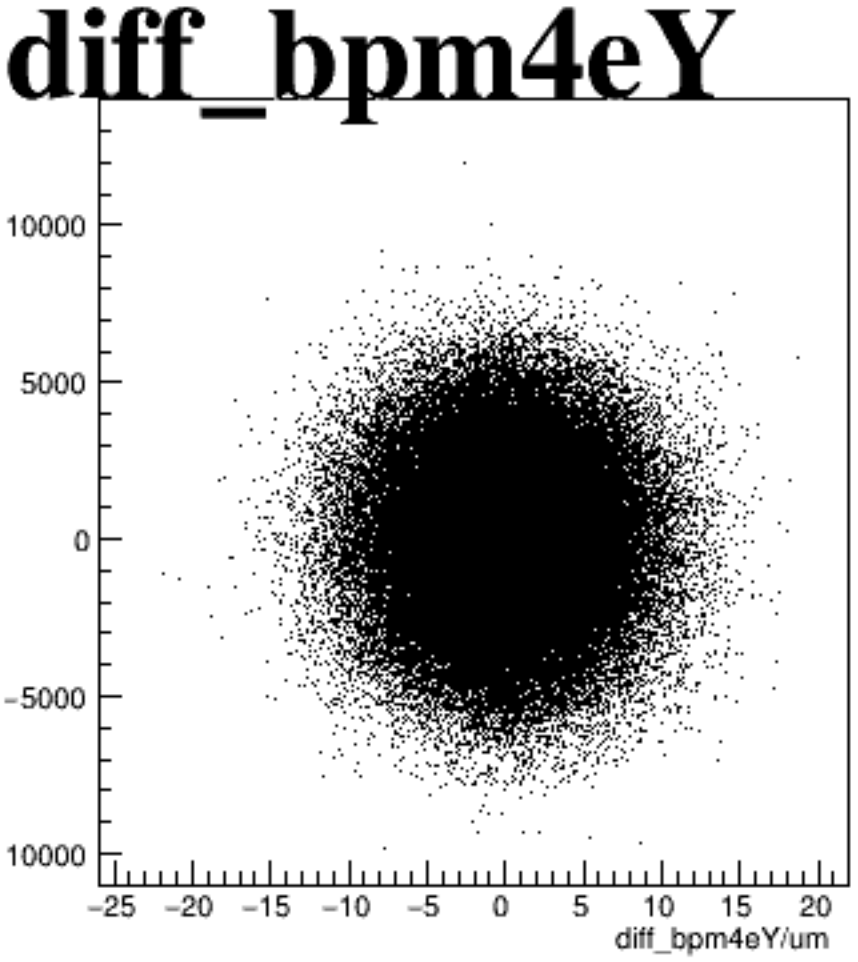
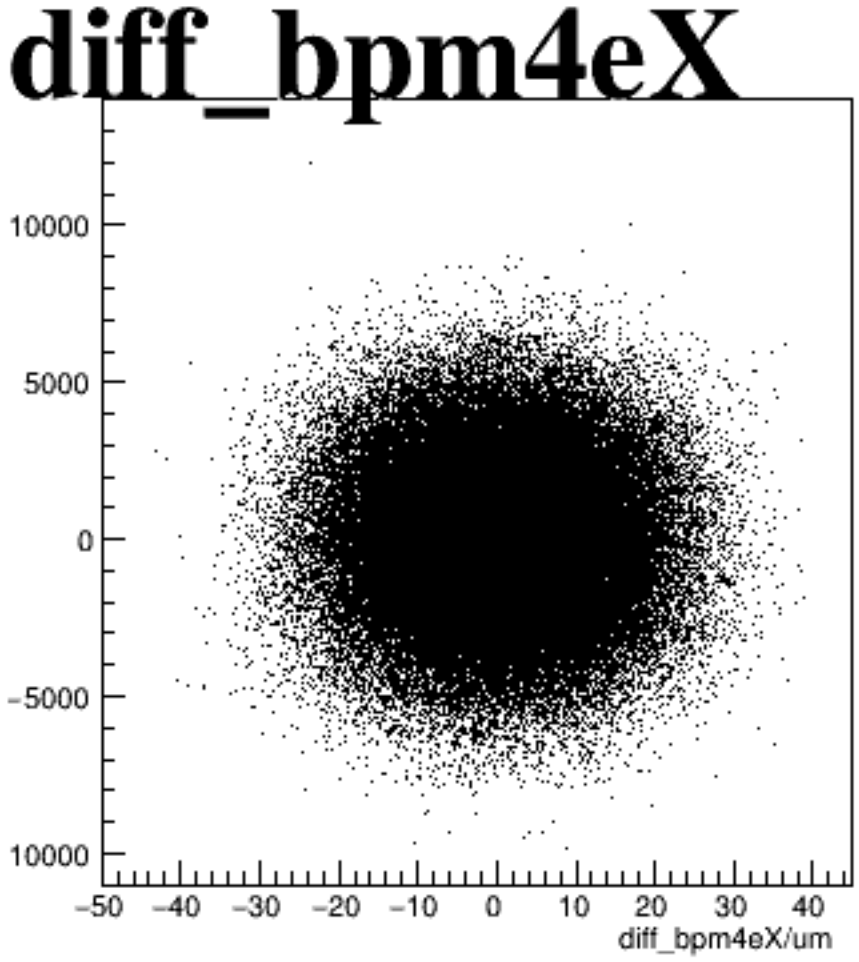
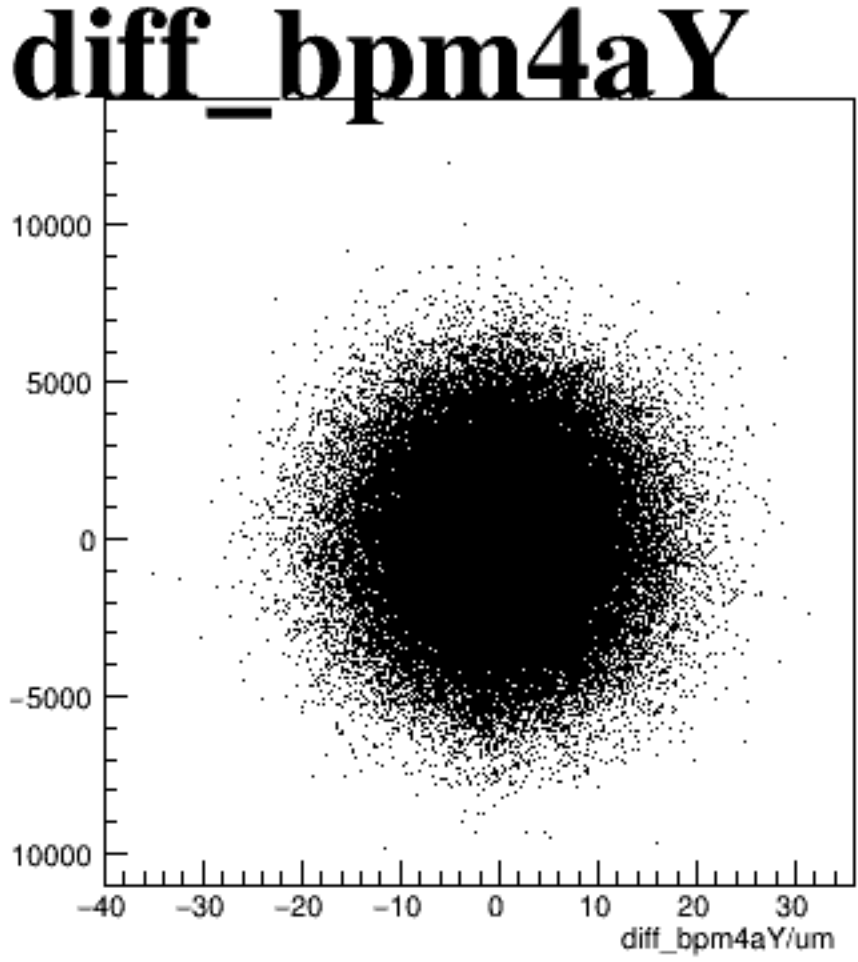
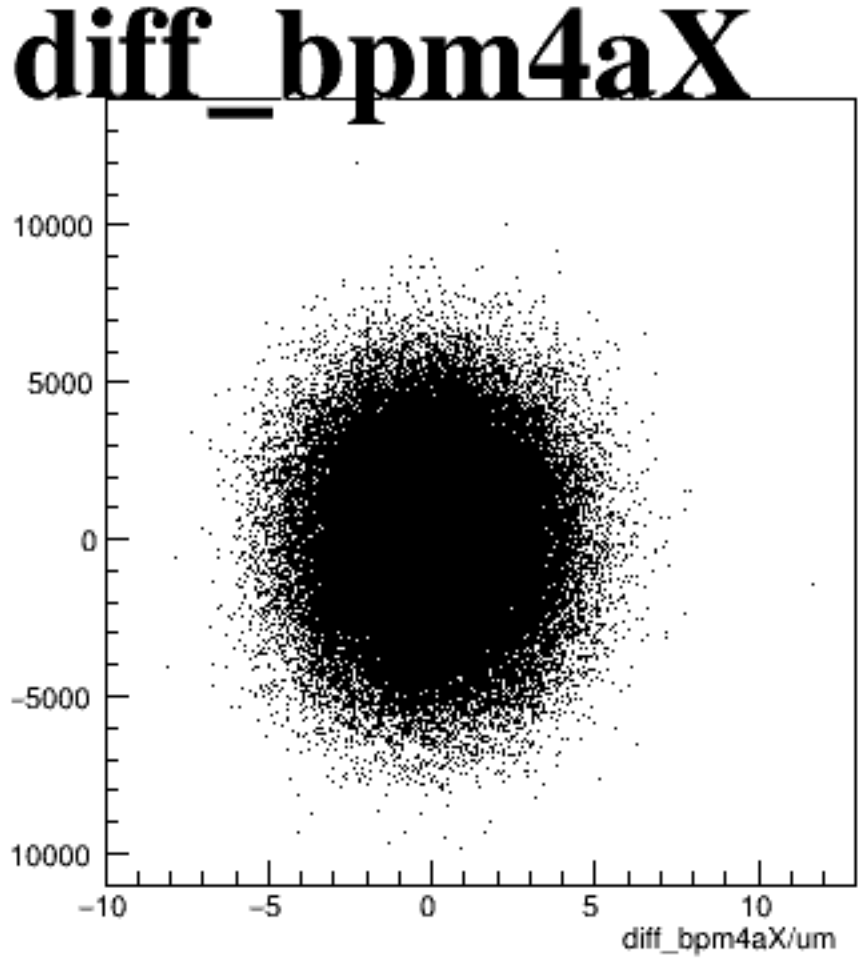
- diff_bpm4aX**: Shows a dense cloud of points centered around (0,0).
- diff_bpm4aY**: Shows a dense cloud of points centered around (0,0).
- diff_bpm4eX**: Shows a dense cloud of points centered around (0,0).
- diff_bpm4eY**: Shows a dense cloud of points centered around (0,0).
- diff_bpmE**: Shows a dense cloud of points centered around (0,0).

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:

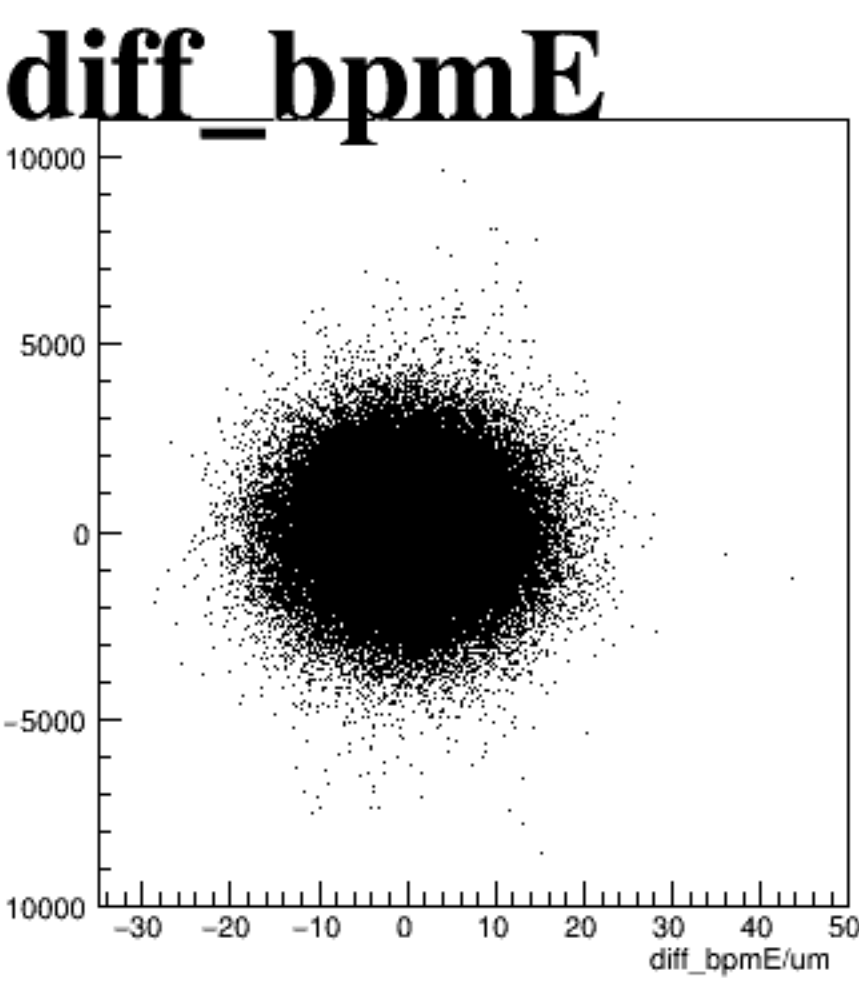
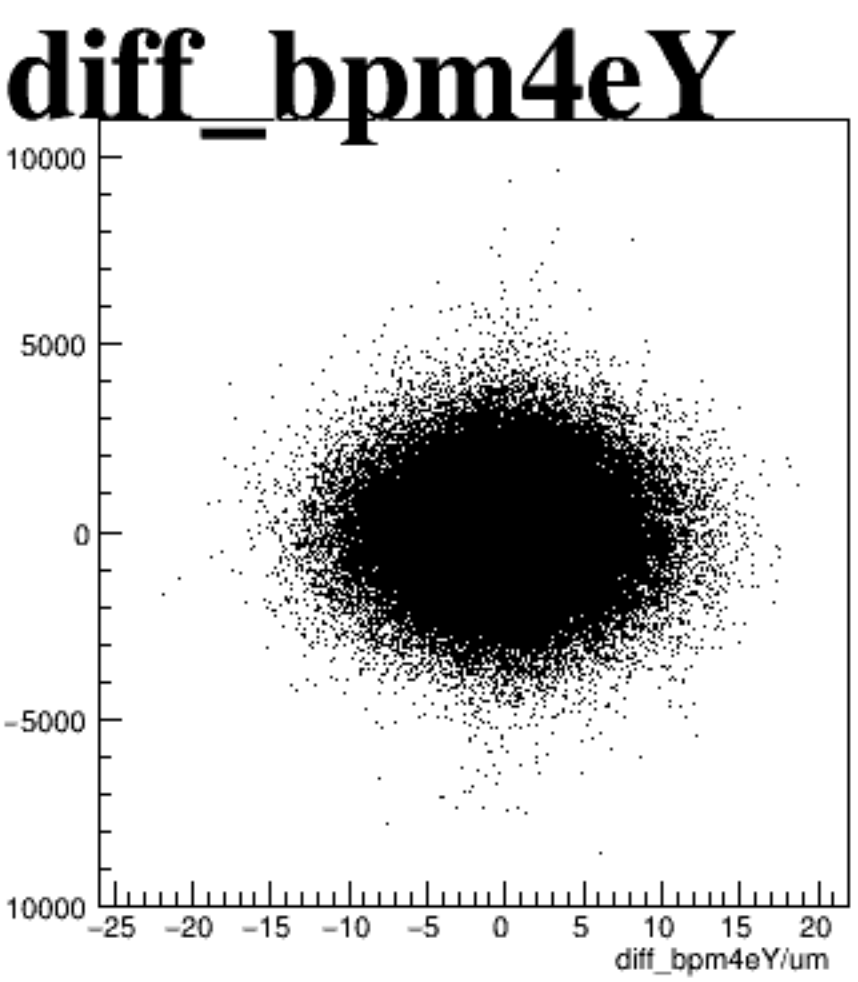
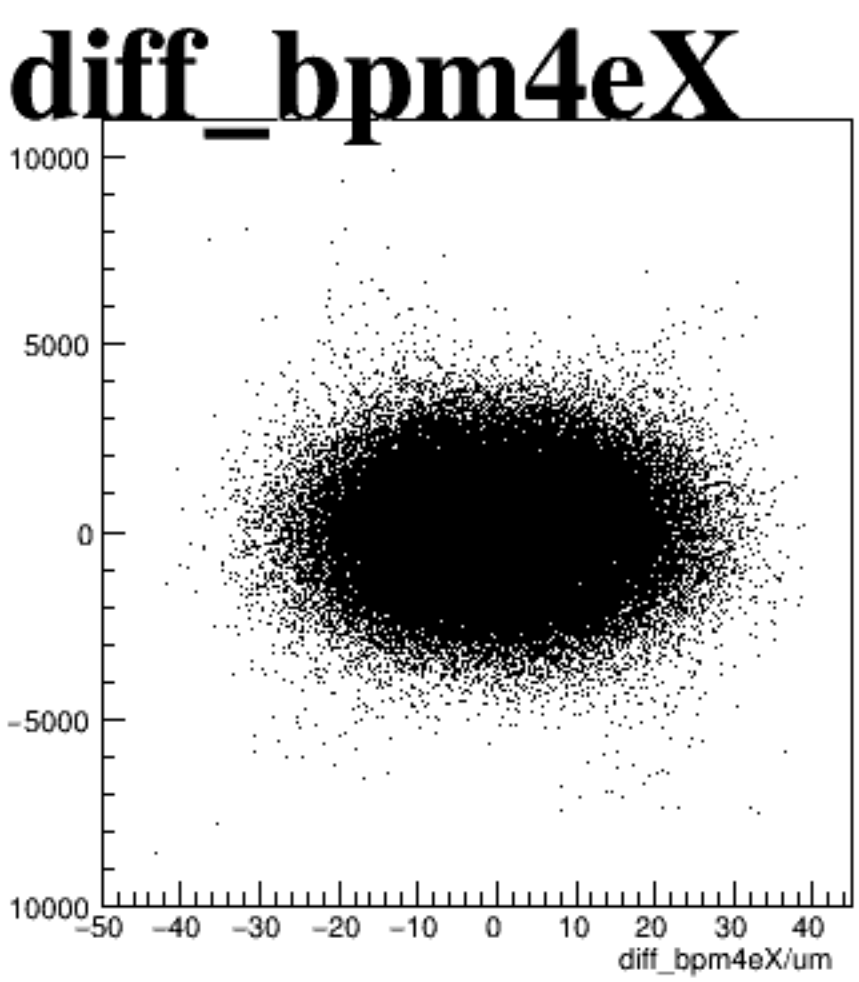
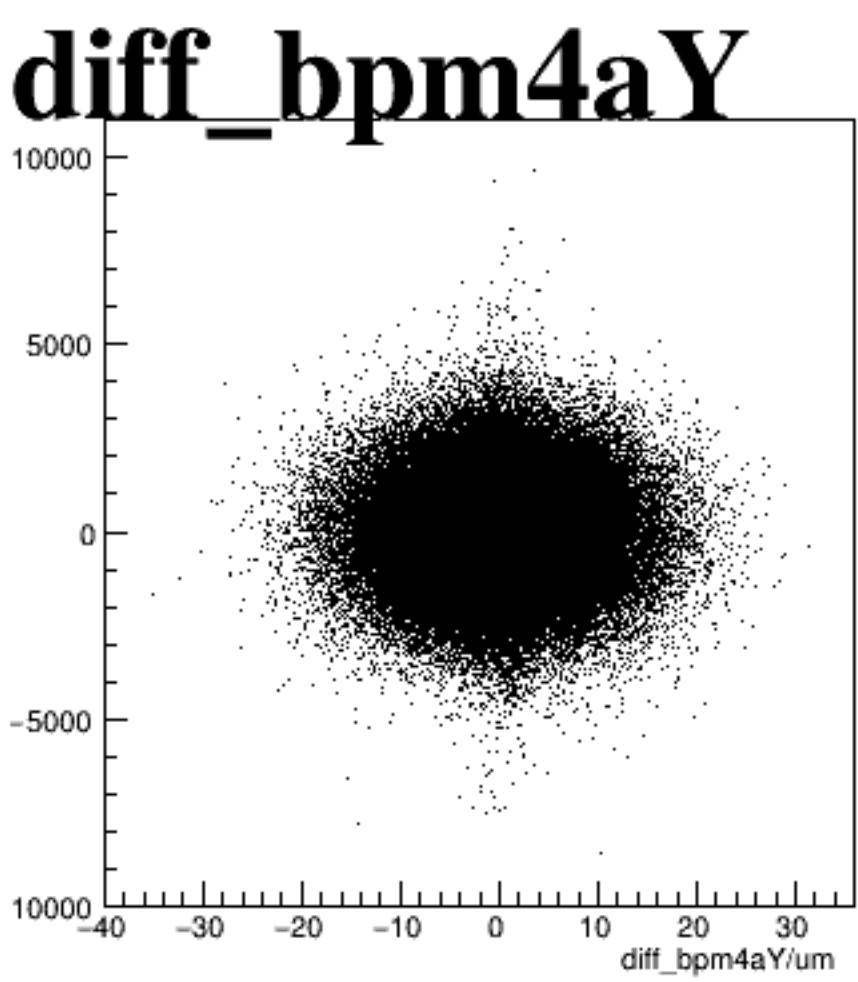
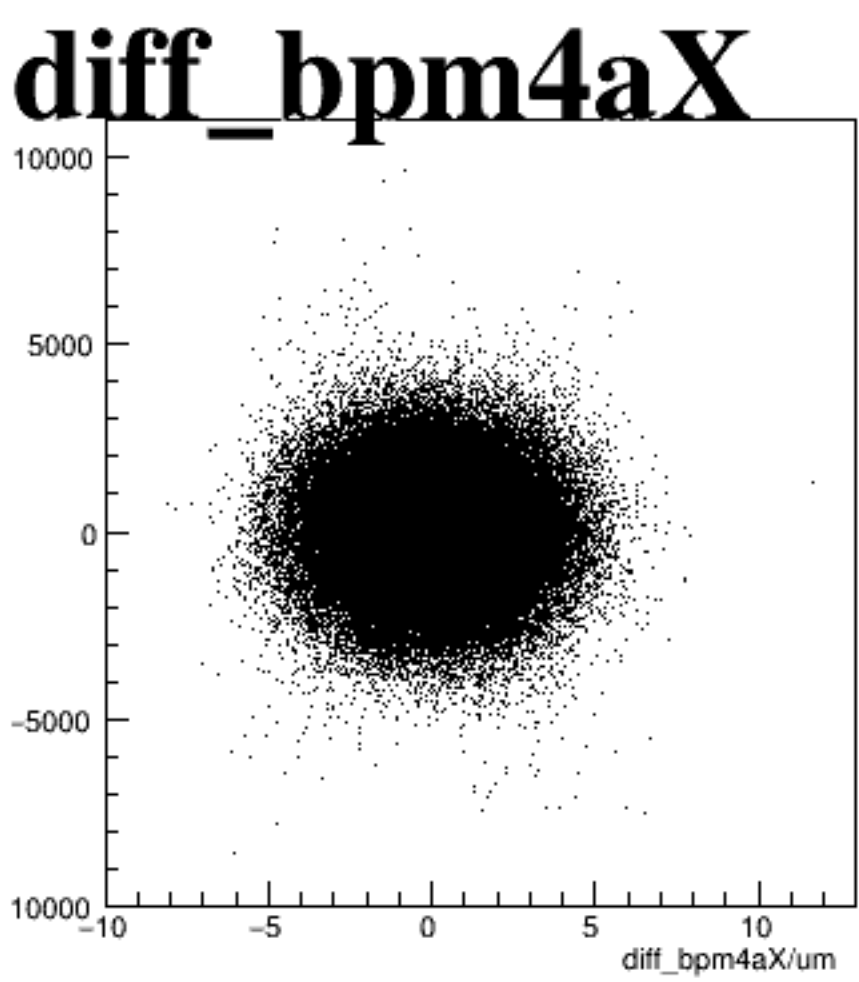
- diff_bpm4aX**: The x-axis is labeled `diff_bpm4aX/um` and ranges from -10 to 10. The y-axis ranges from -20000 to 15000.
- diff_bpm4aY**: The x-axis is labeled `diff_bpm4aY/um` and ranges from -40 to 30. The y-axis ranges from -20000 to 15000.
- diff_bpm4eX**: The x-axis is labeled `diff_bpm4eX/um` and ranges from -50 to 40. The y-axis ranges from -20000 to 15000.
- diff_bpm4eY**: The x-axis is labeled `diff_bpm4eY/um` and ranges from -25 to 20. The y-axis ranges from -20000 to 15000.
- diff_bpmE**: The x-axis is labeled `diff_bpmE/um` and ranges from -30 to 50. The y-axis ranges from -20000 to 15000.

Each plot shows a dense cloud of points, indicating a strong correlation between the parameters. The points are distributed in a roughly elliptical shape, with the major axis of the ellipse aligned with the x-axis. The density of points is highest in the center of the distribution and decreases towards the edges.

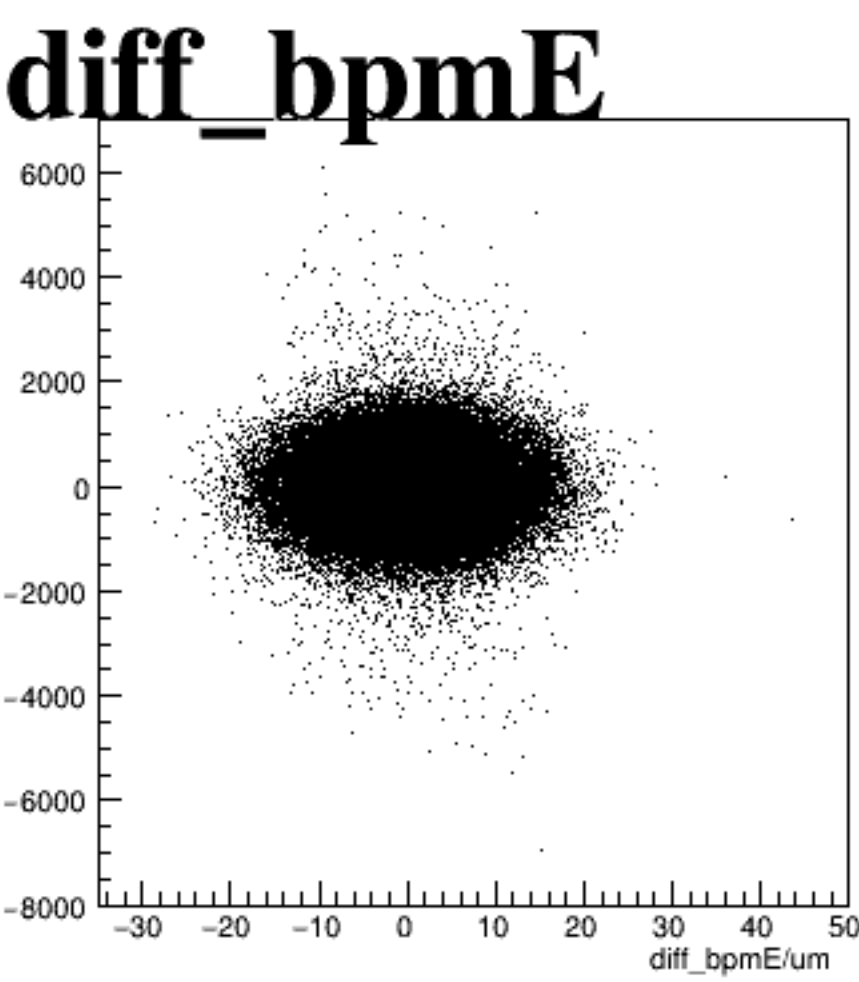
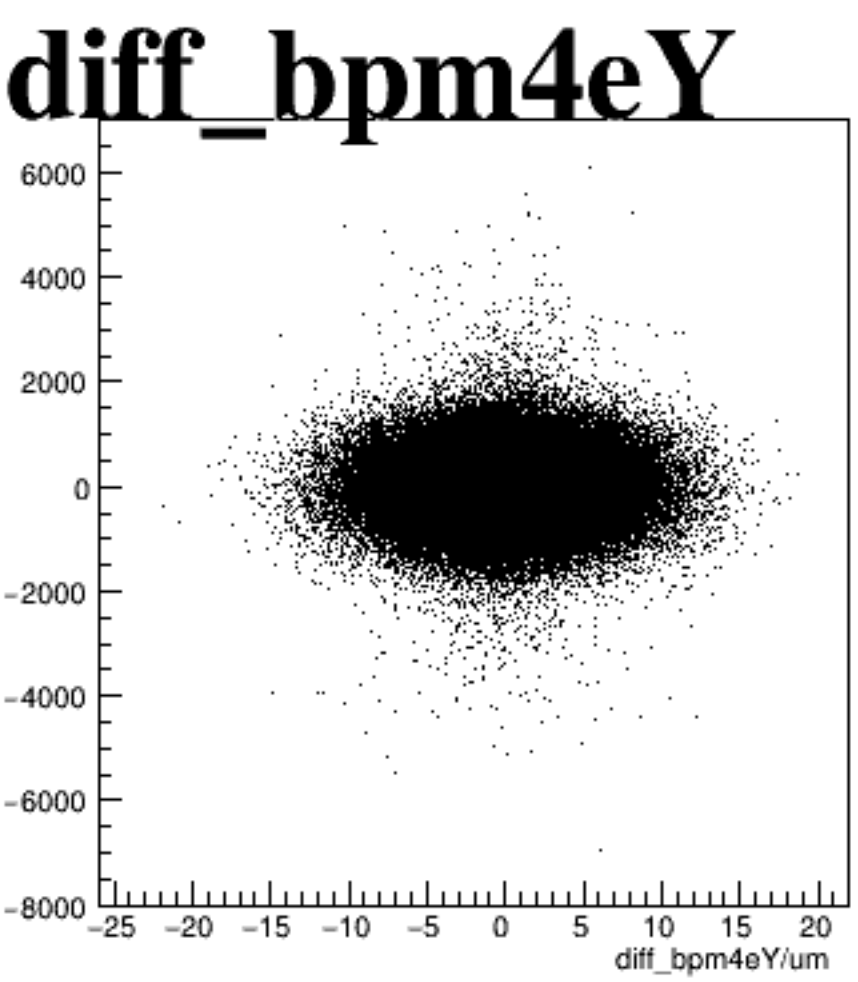
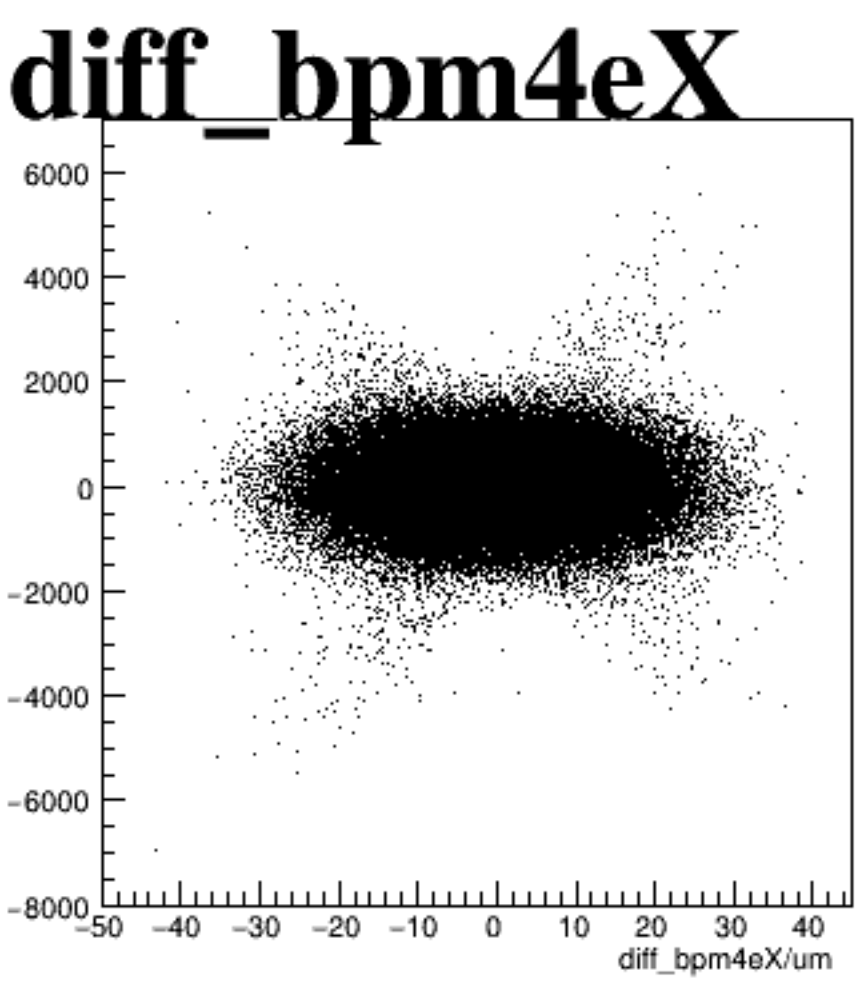
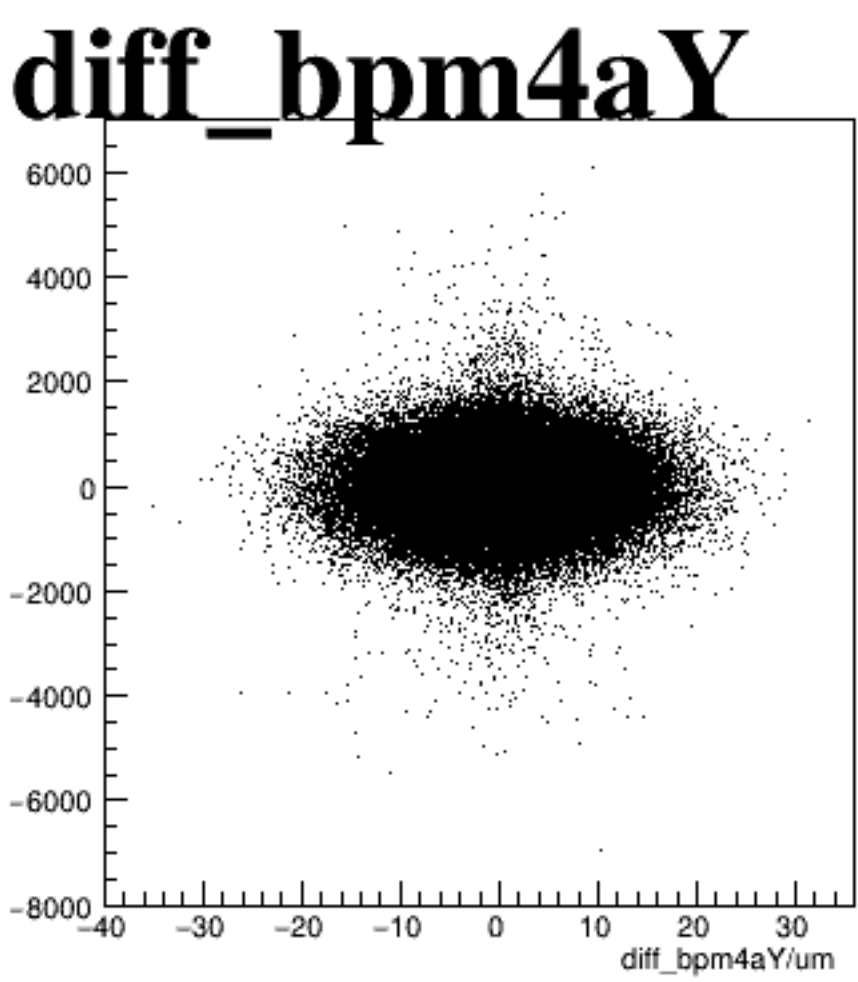
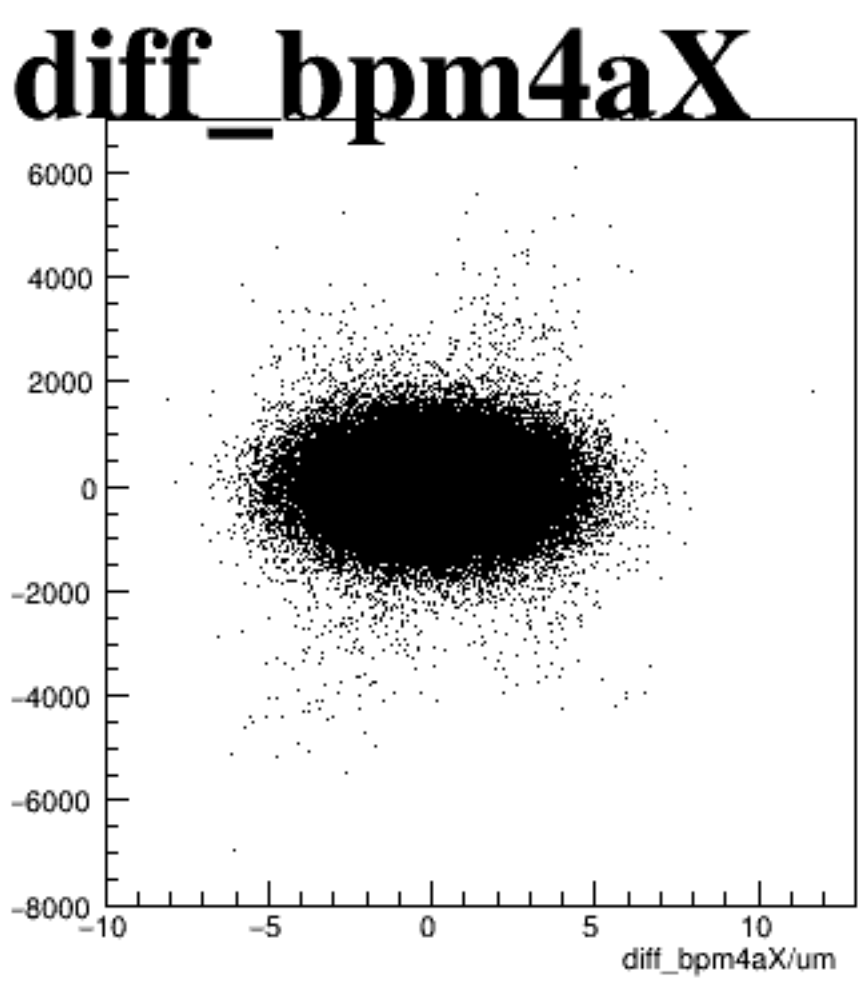
reg_asym_sam2



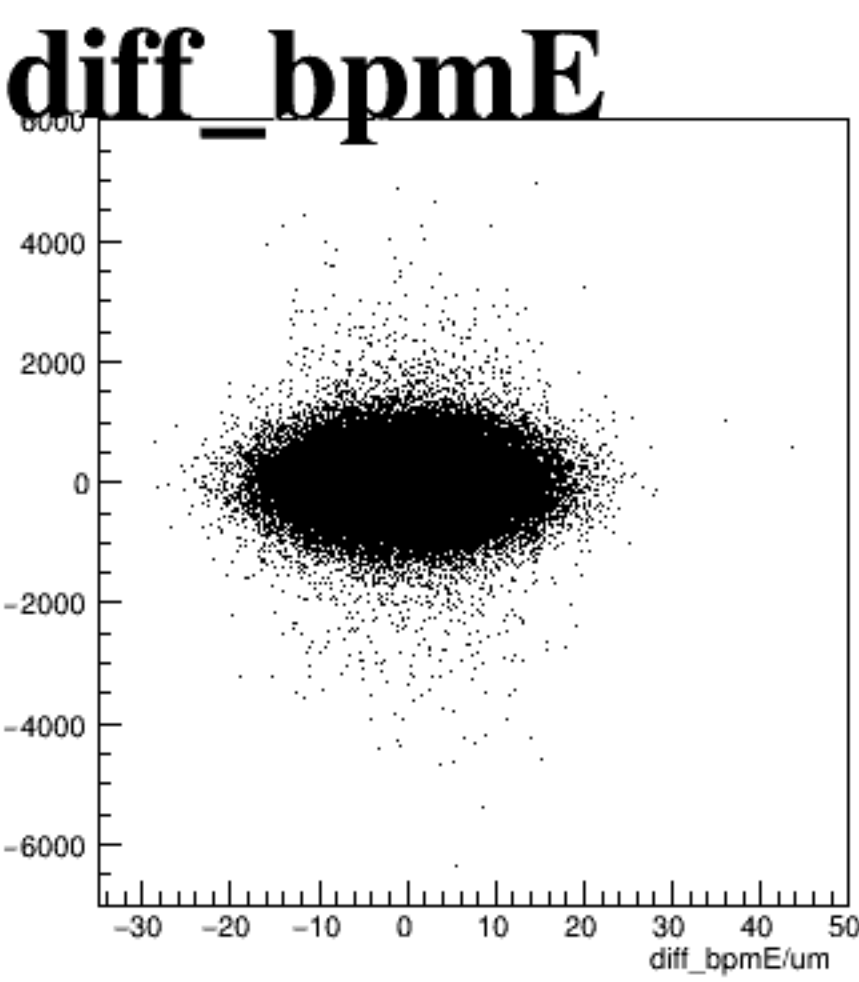
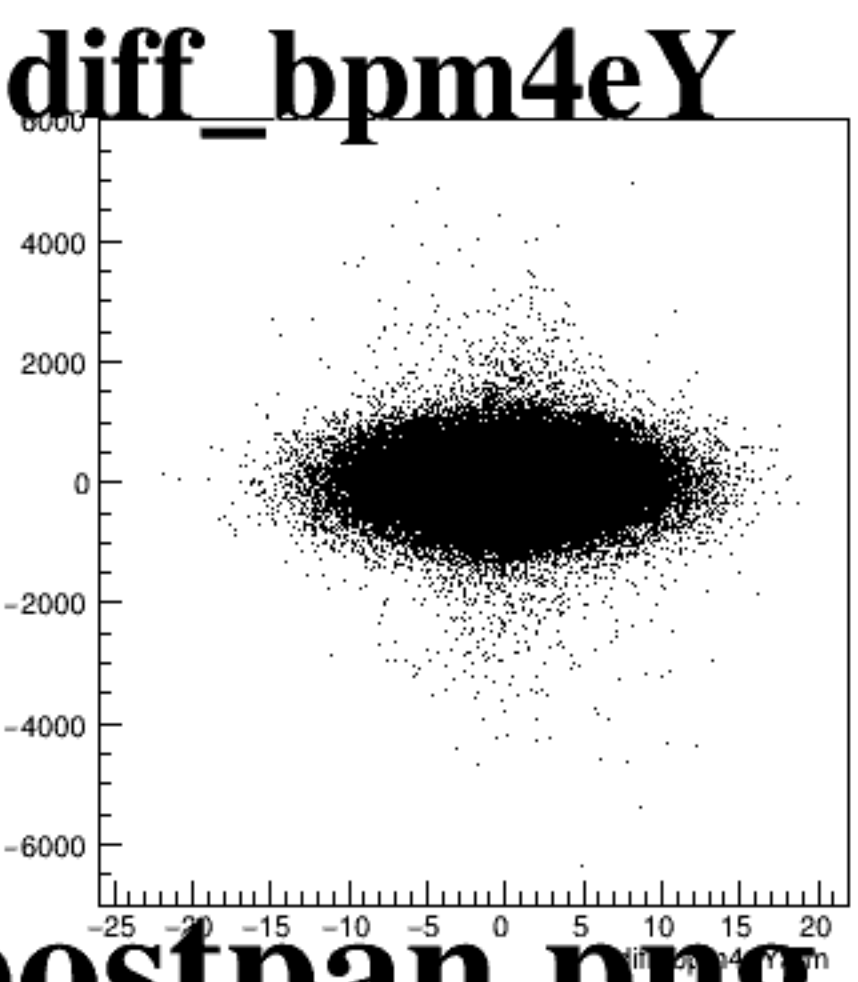
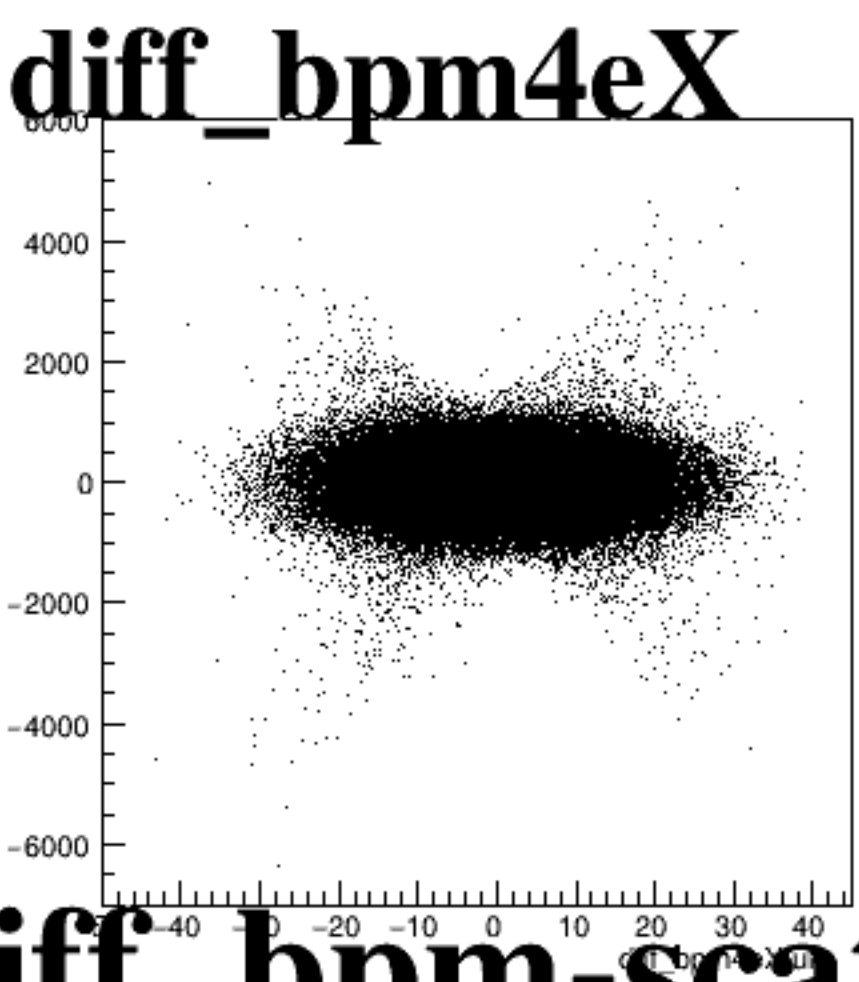
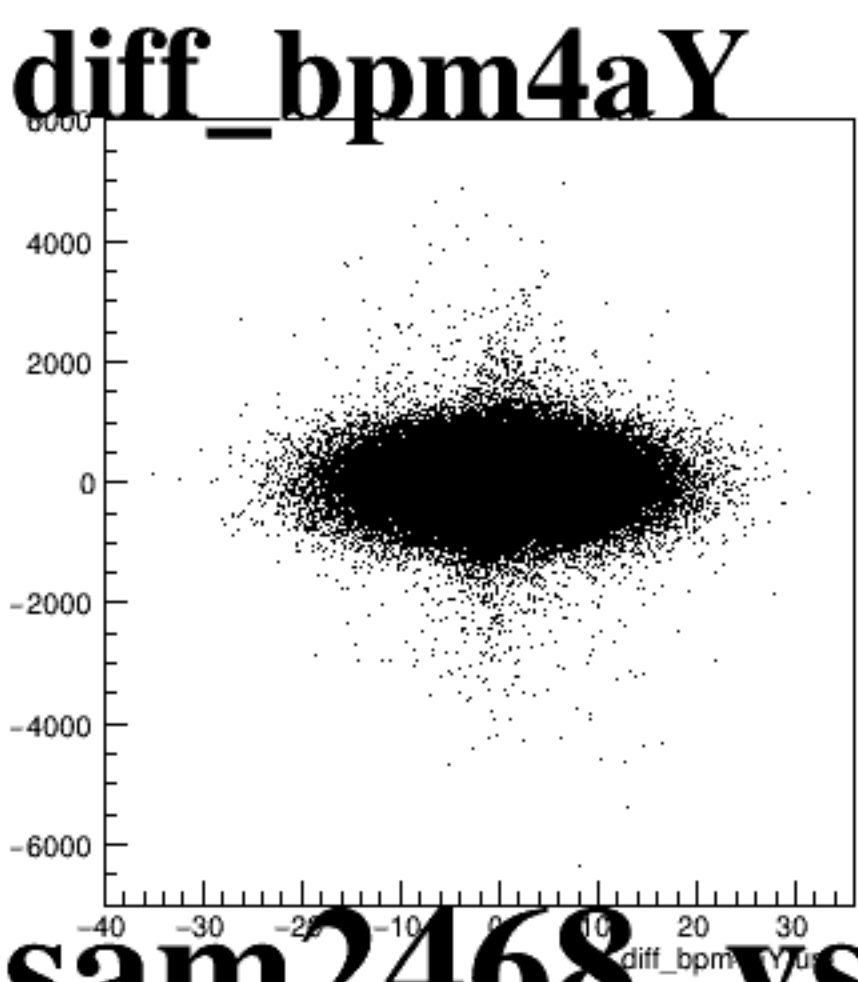
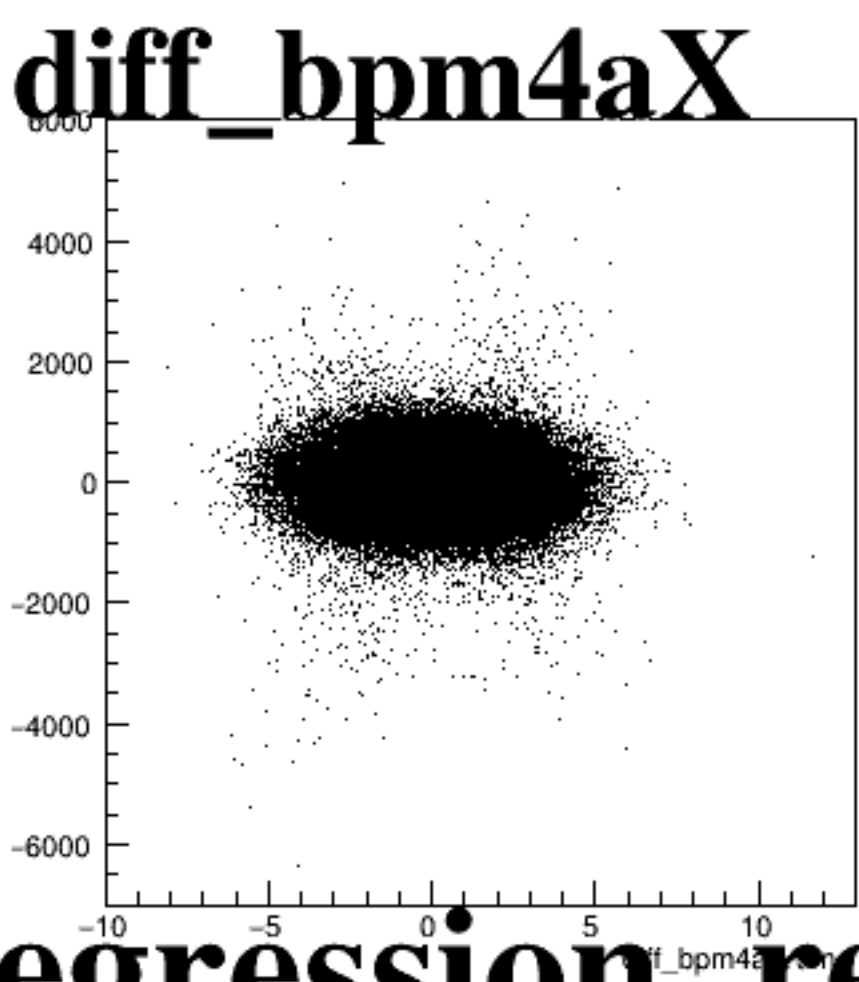
reg_asym_sam4



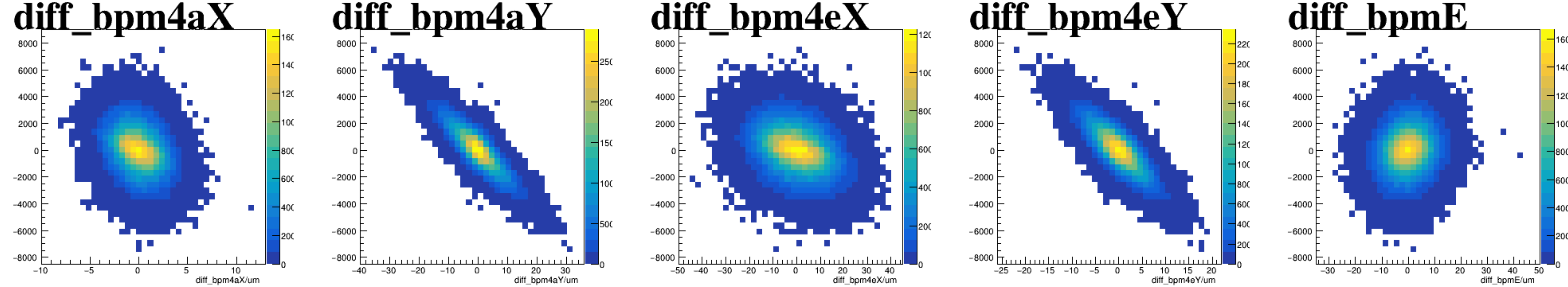
reg_asym_sam6



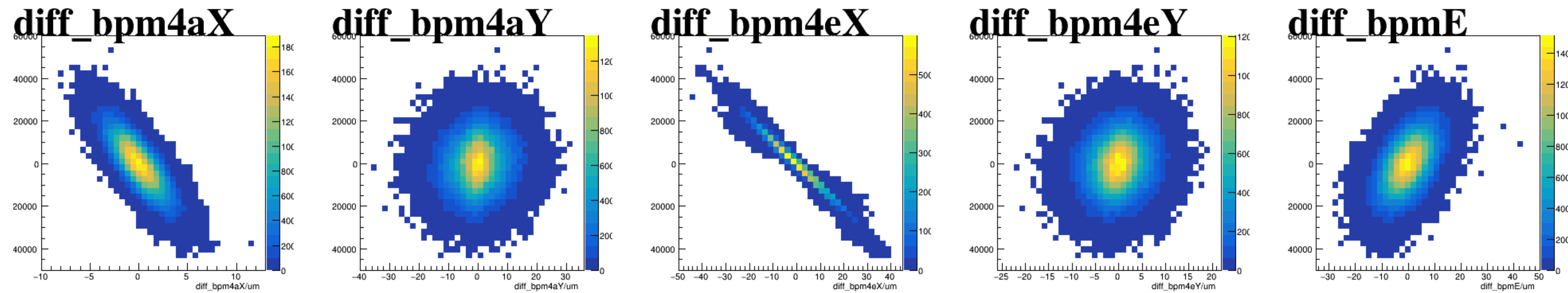
reg_asym_sam8



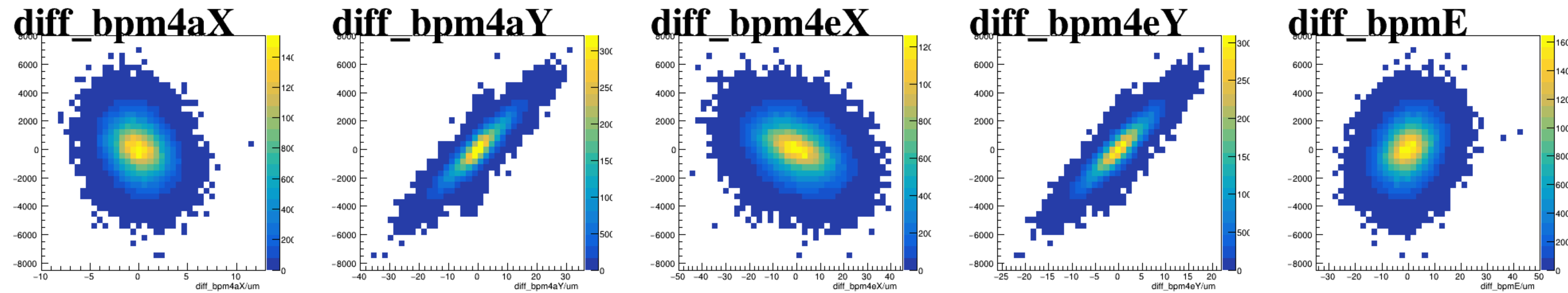
asym_sam1



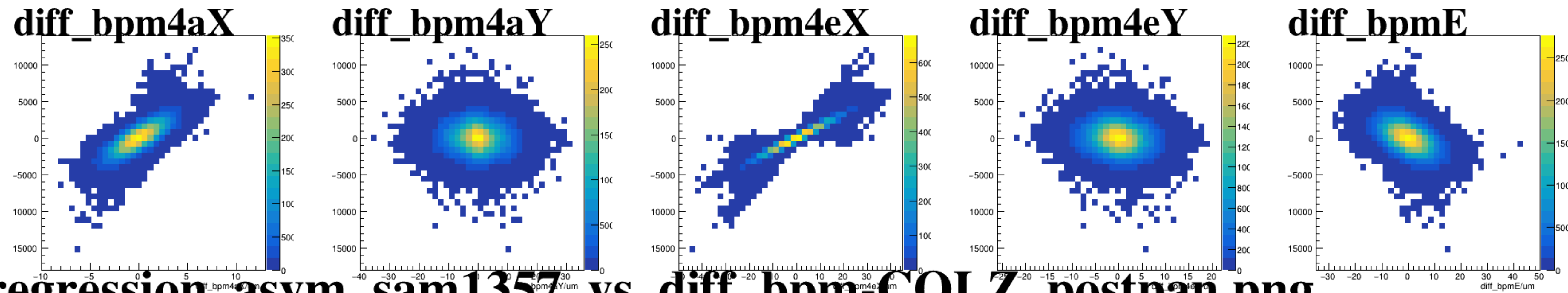
asym_sam3



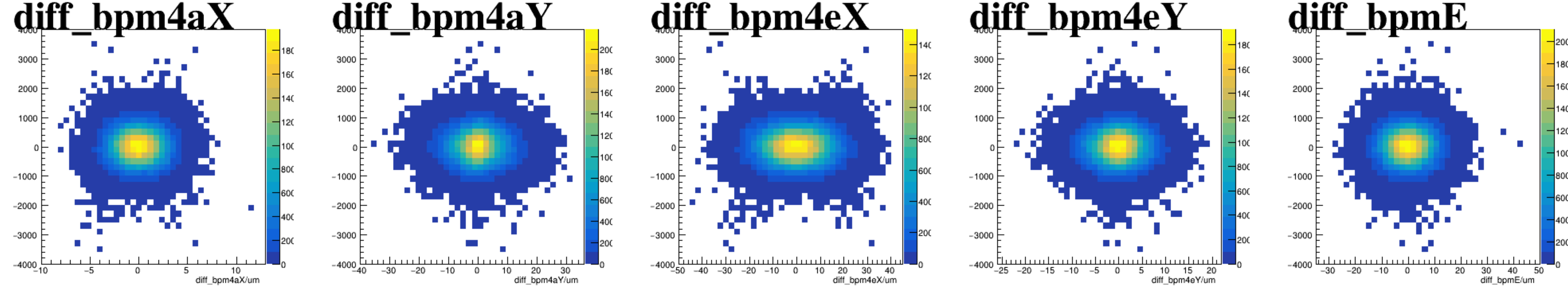
asym_sam5



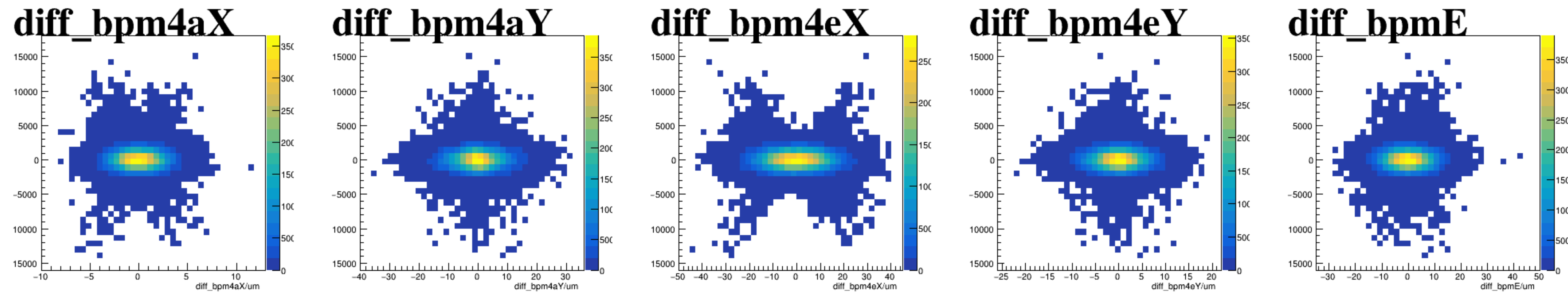
asym_sam7



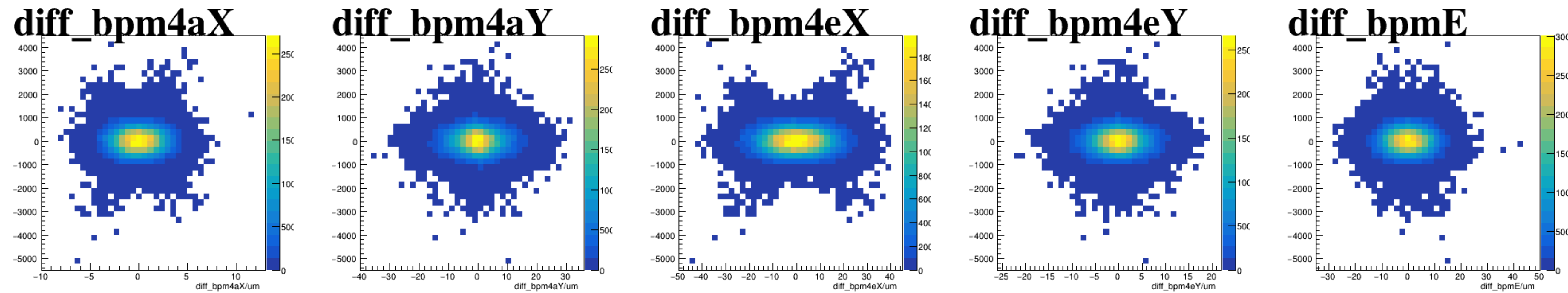
reg_asym_sam1



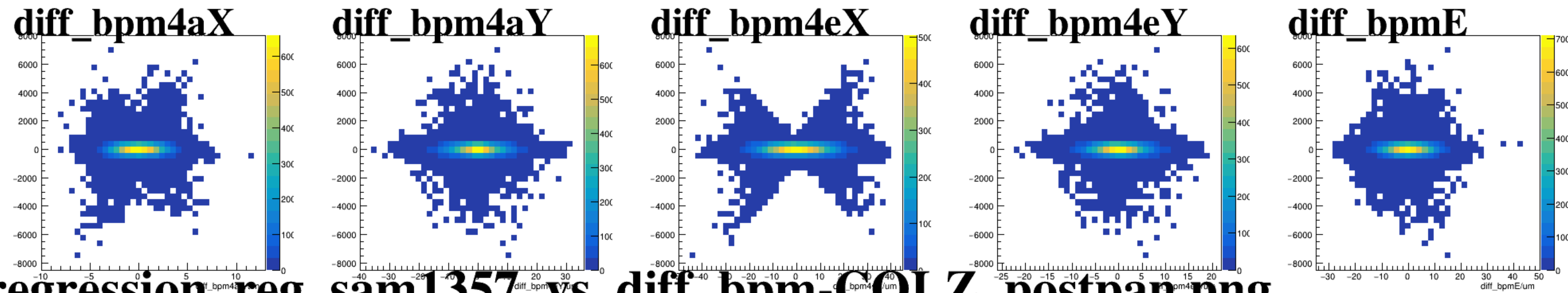
reg_asym_sam3



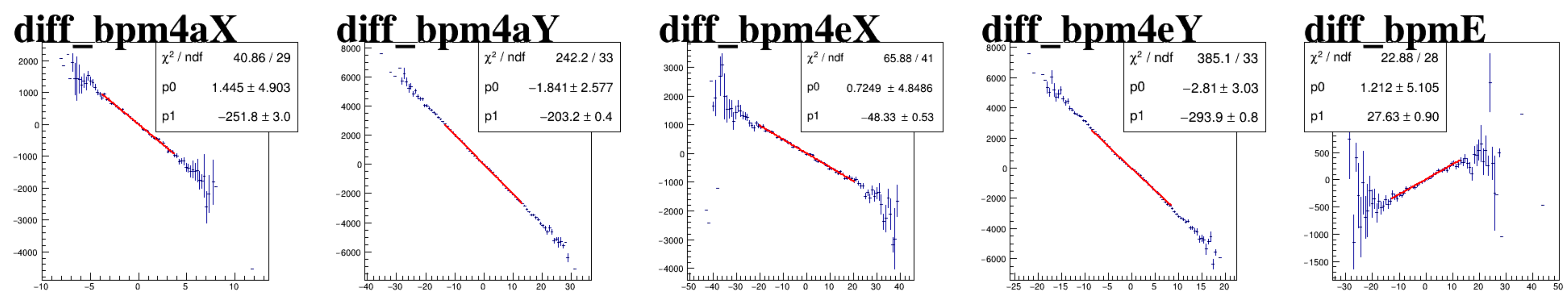
reg_asym_sam5



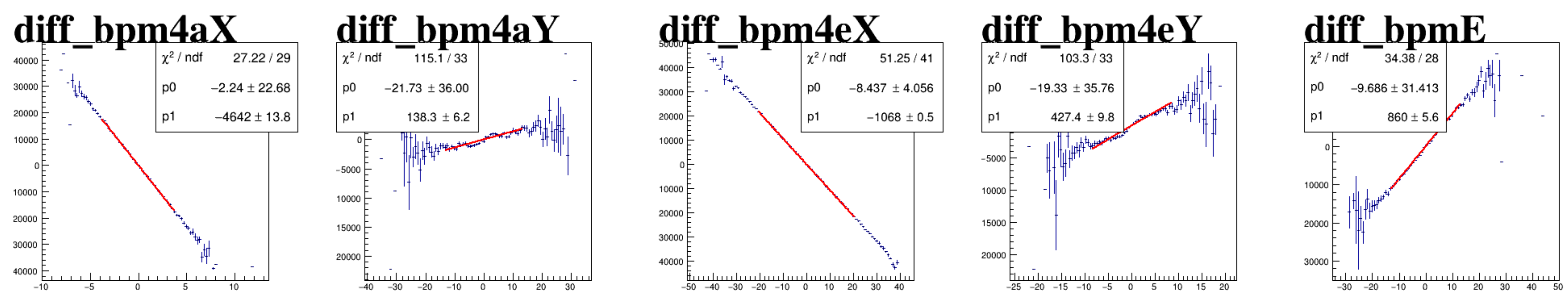
reg_asym_sam7



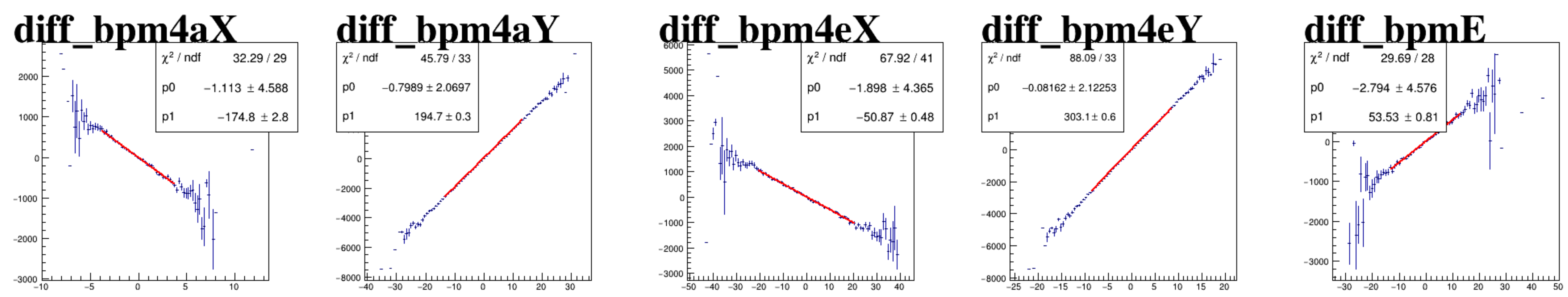
asym_sam1



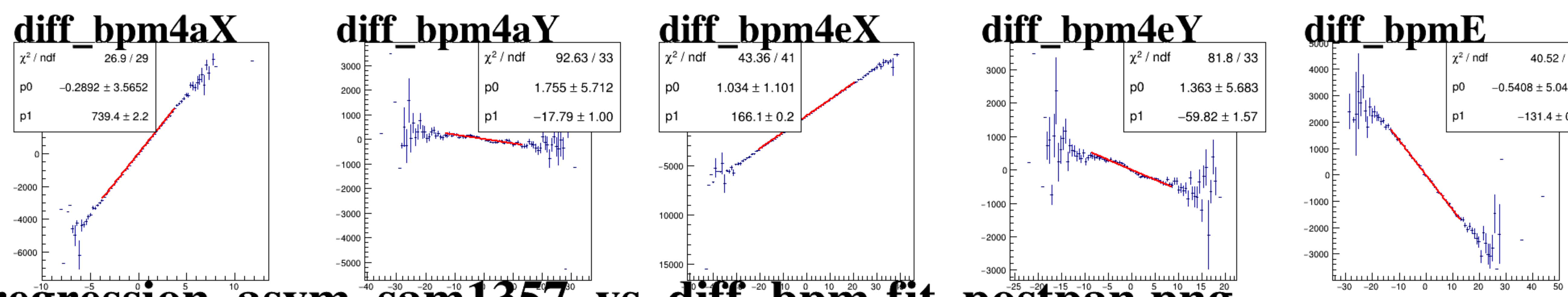
asym_sam3



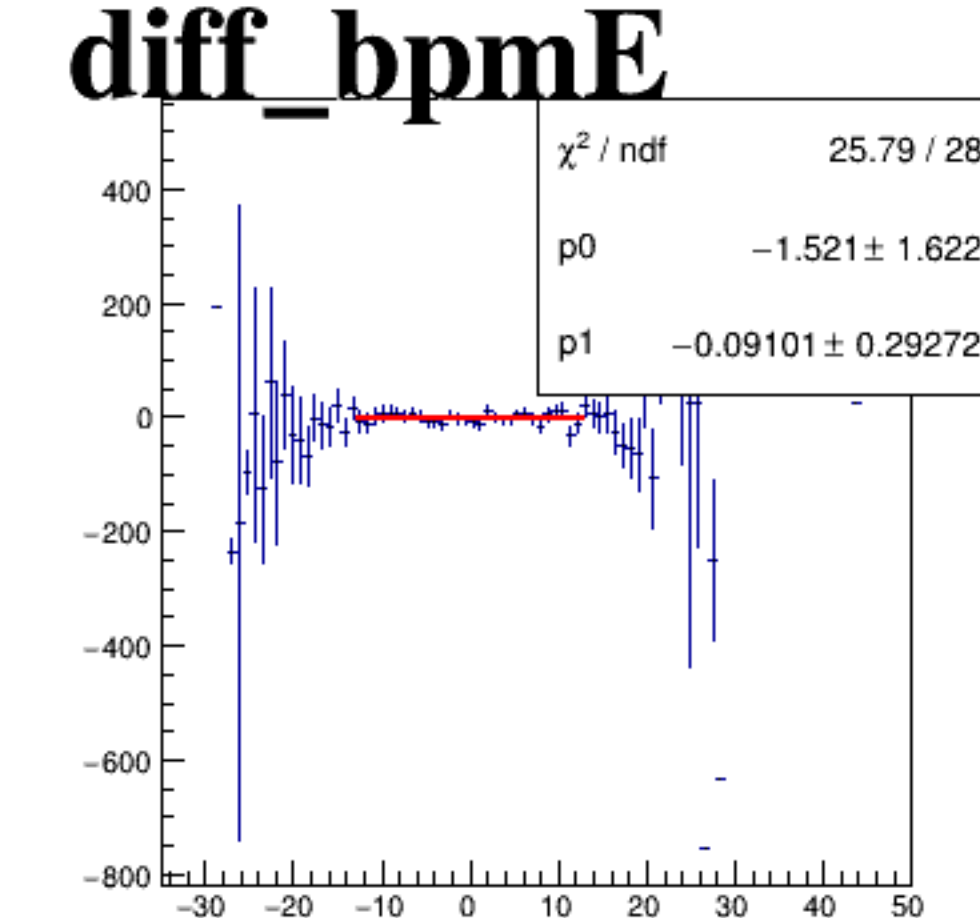
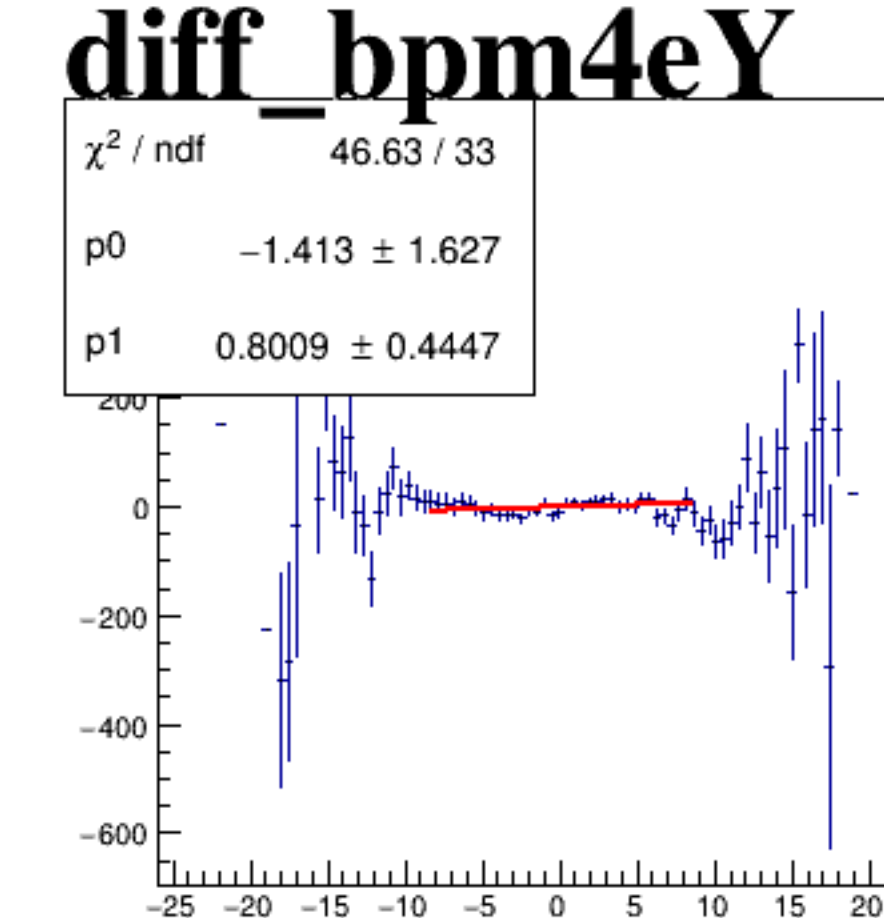
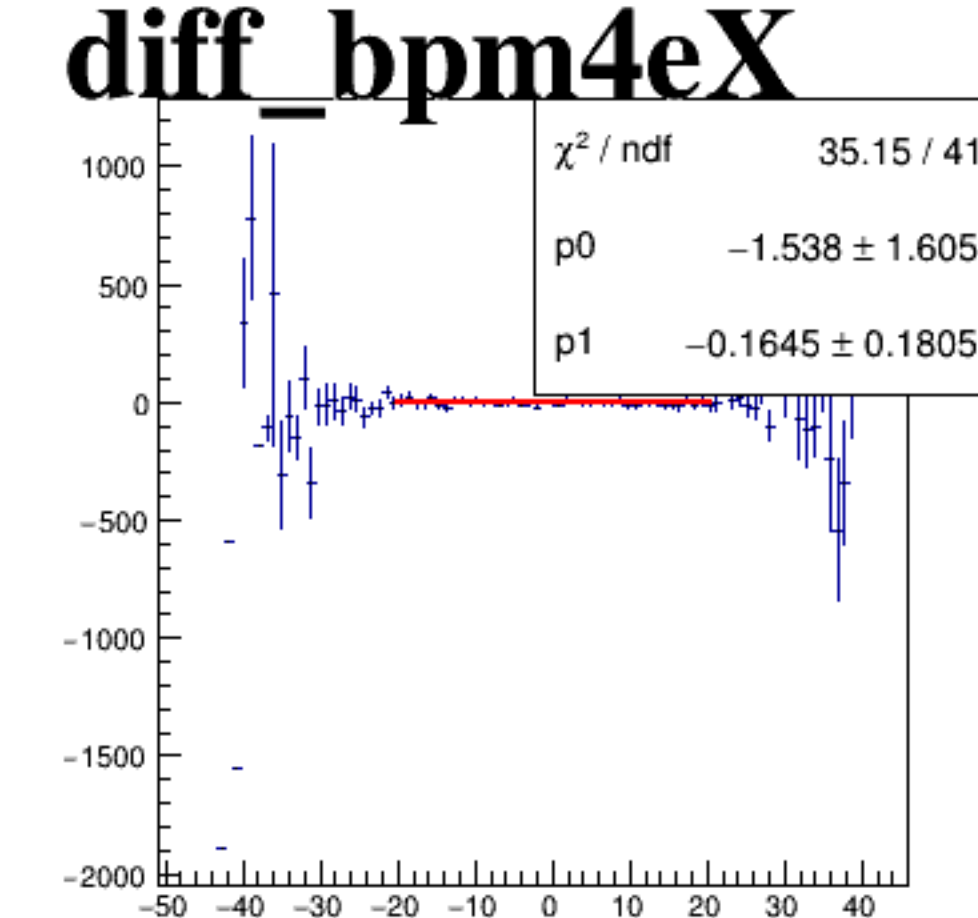
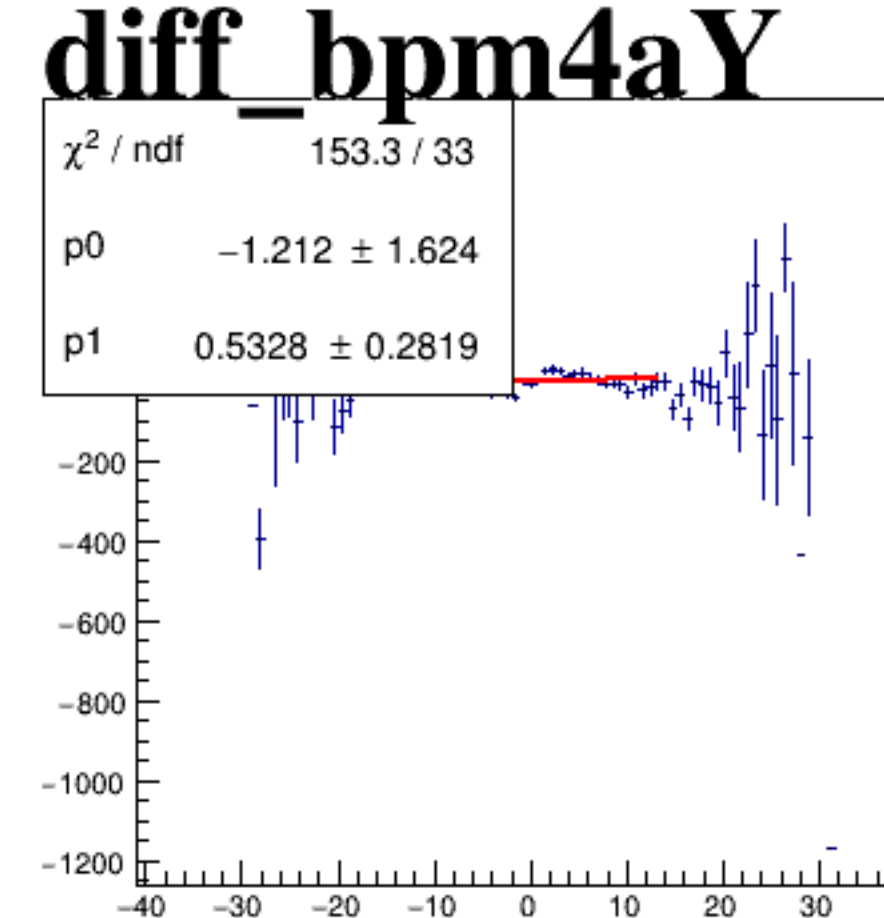
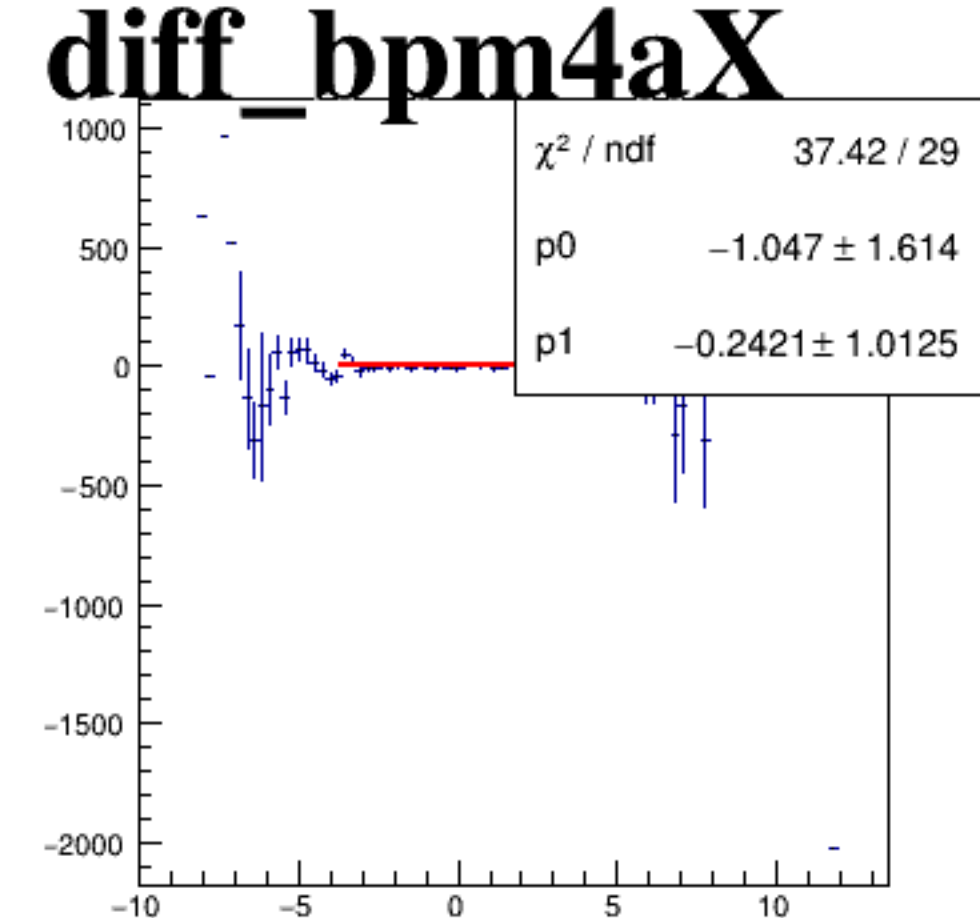
asym_sam5



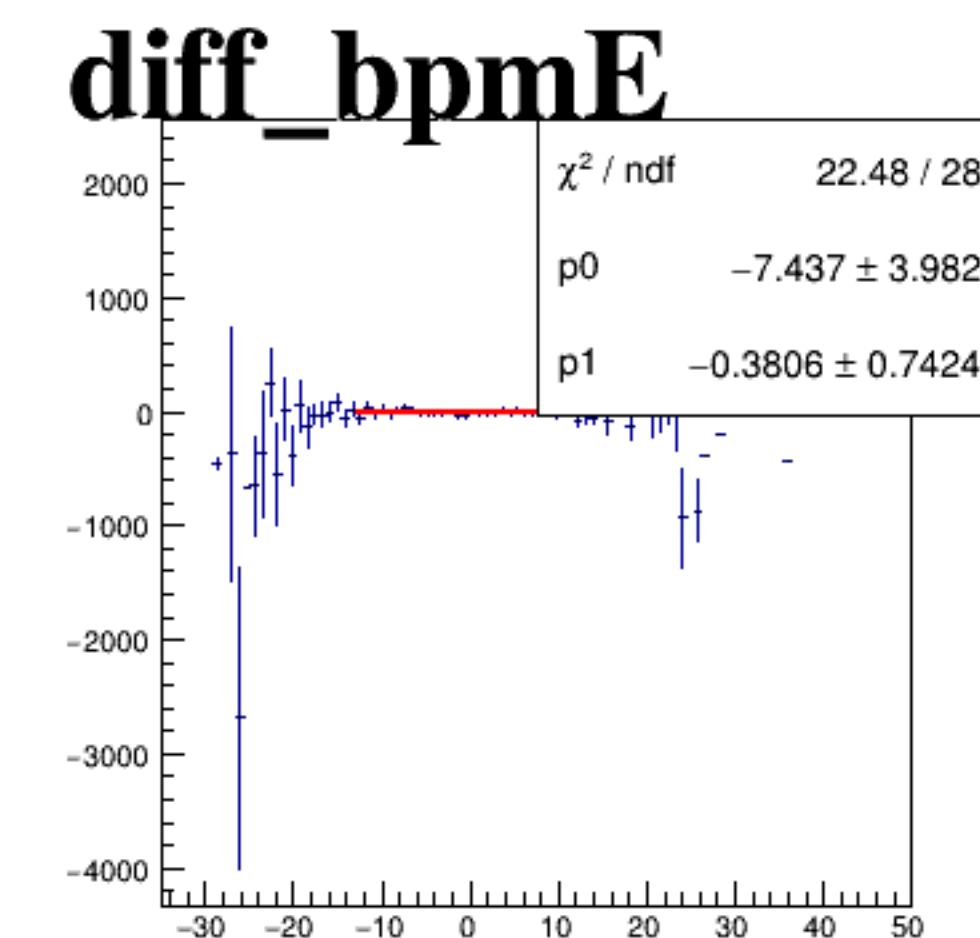
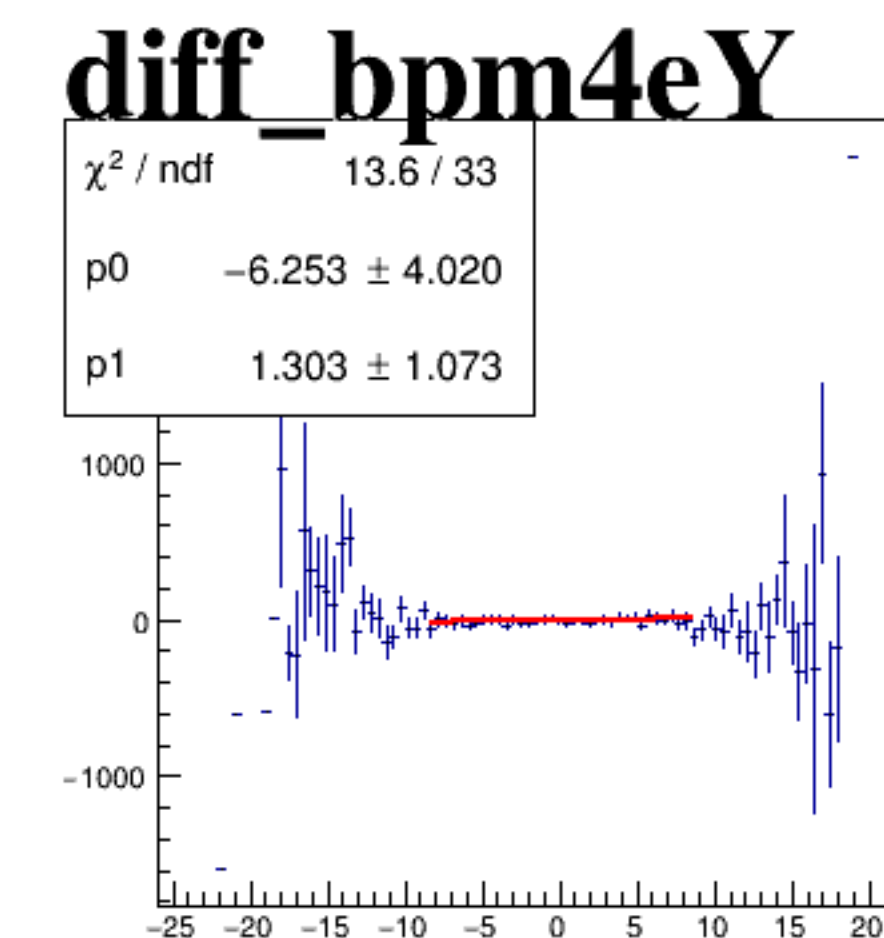
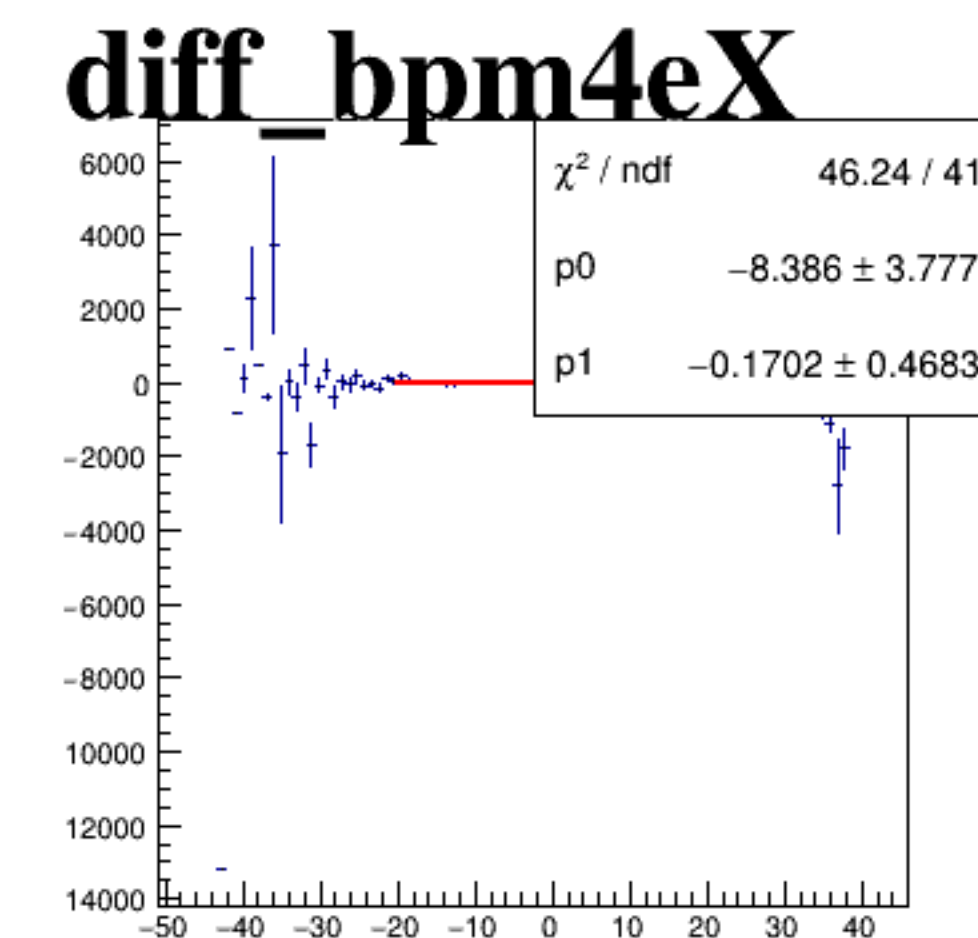
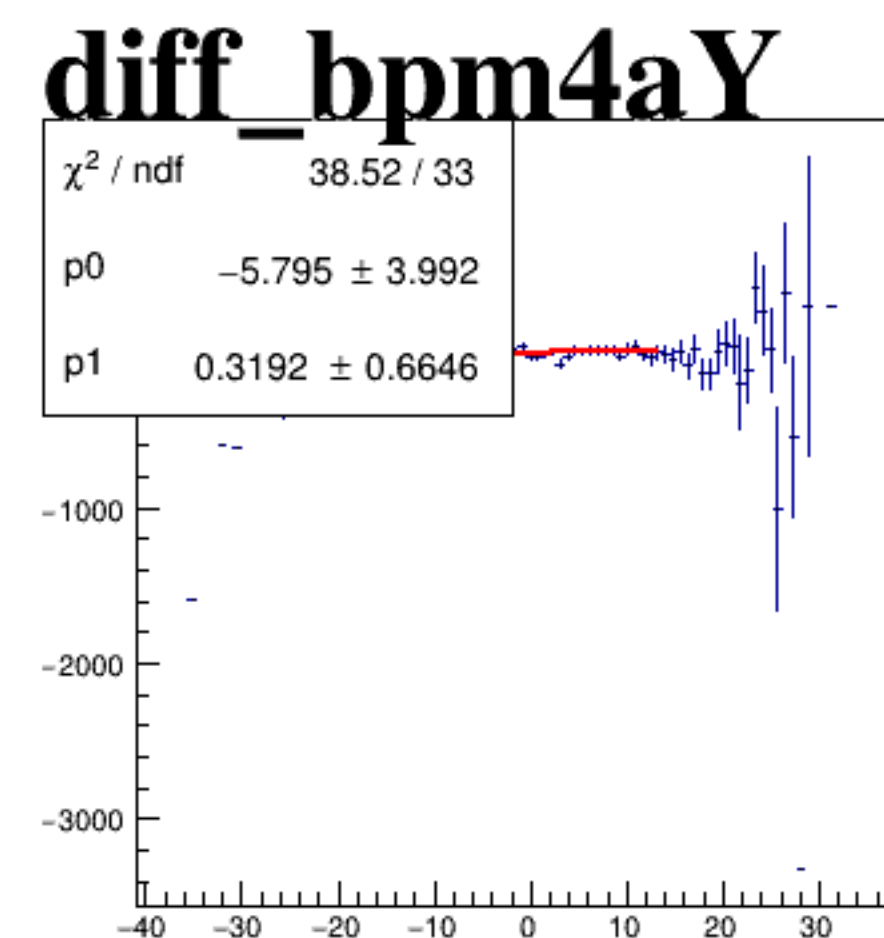
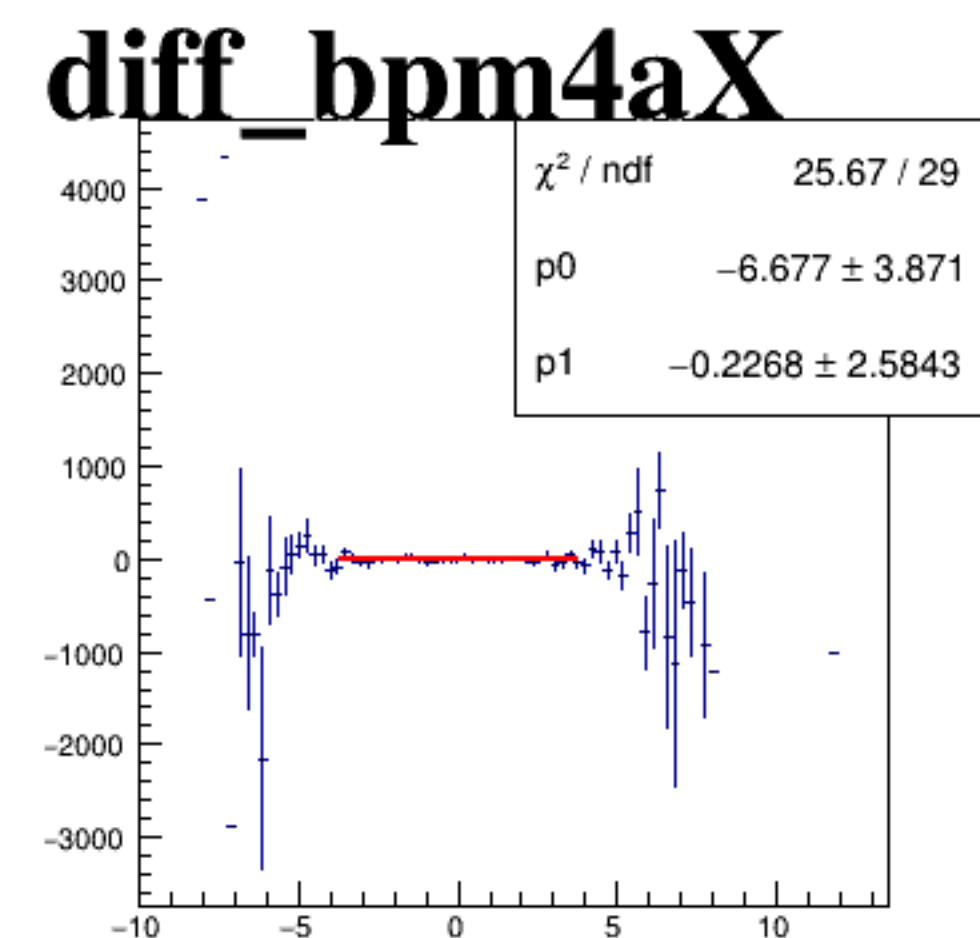
asym_sam7



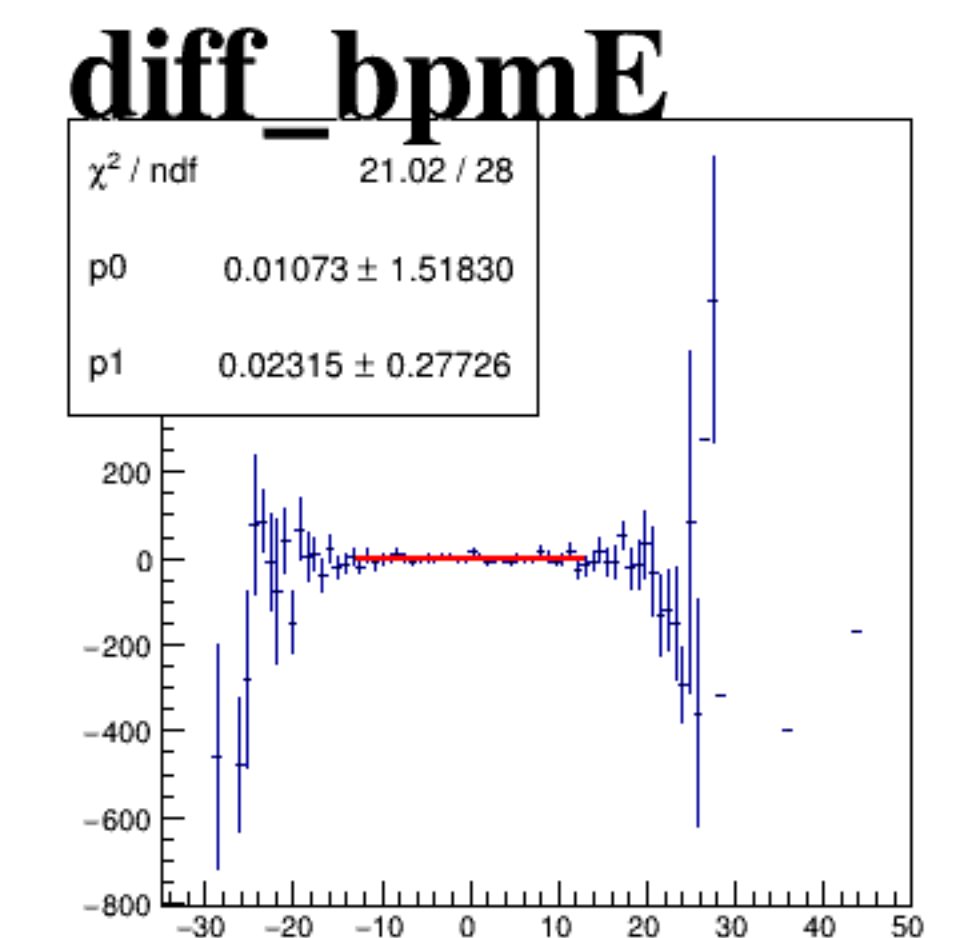
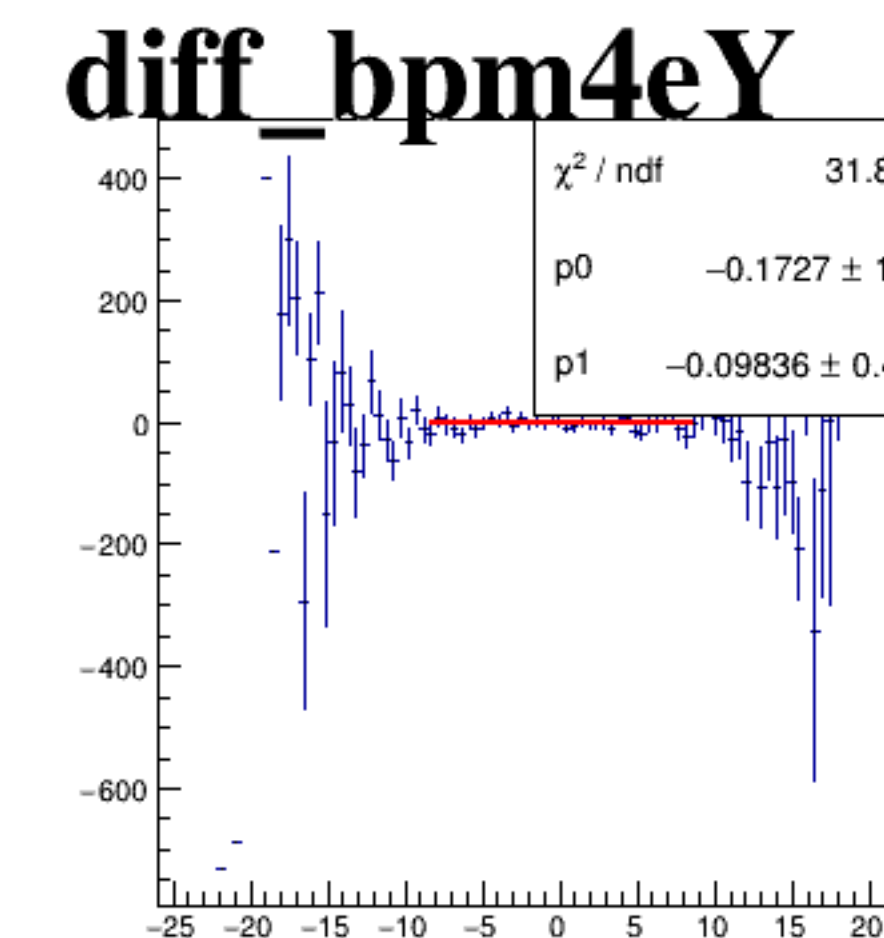
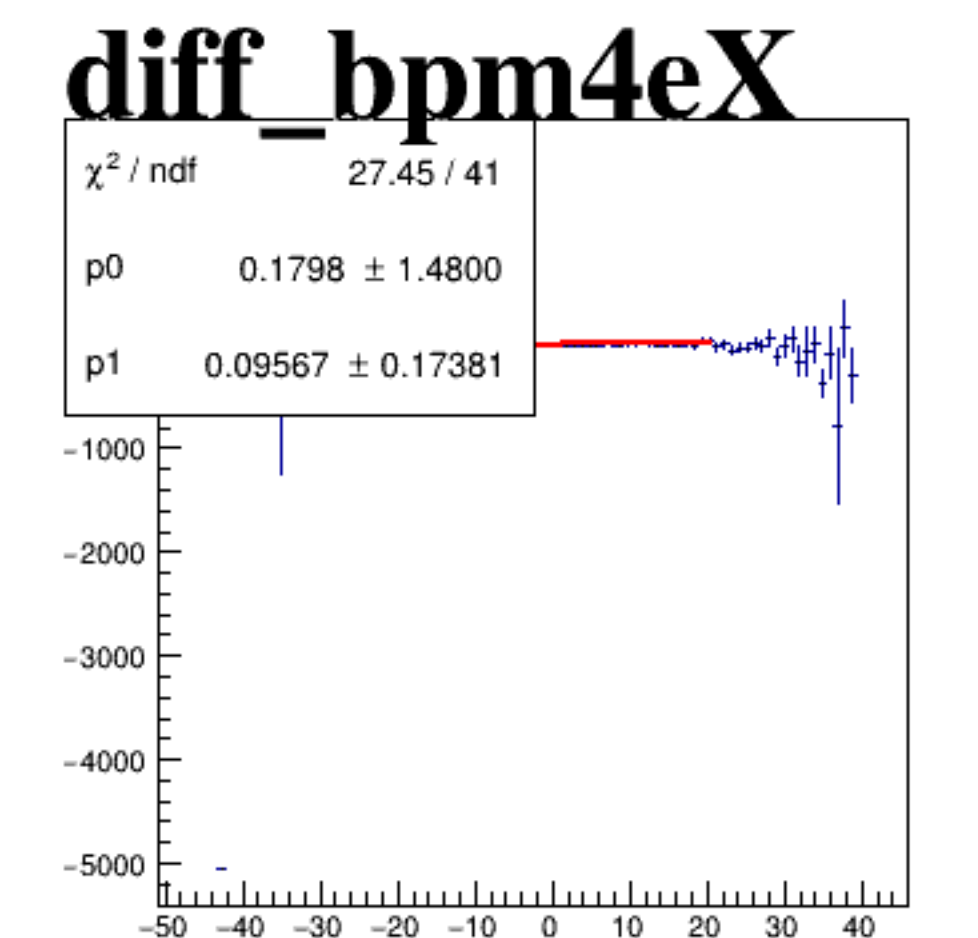
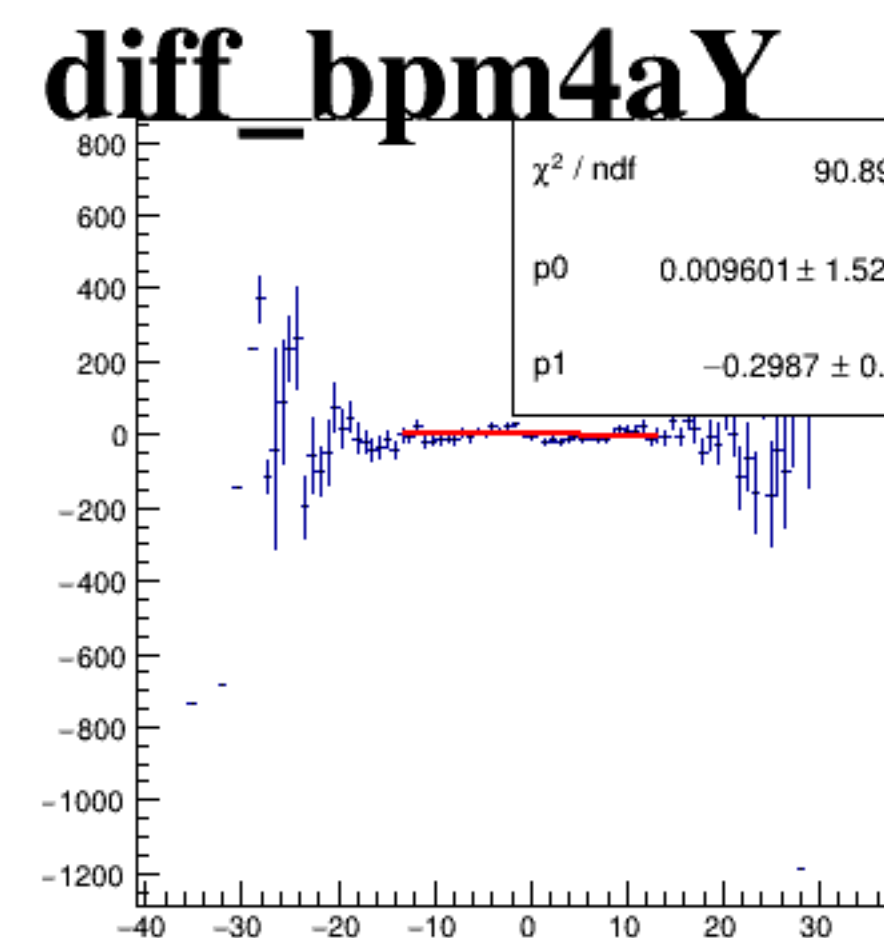
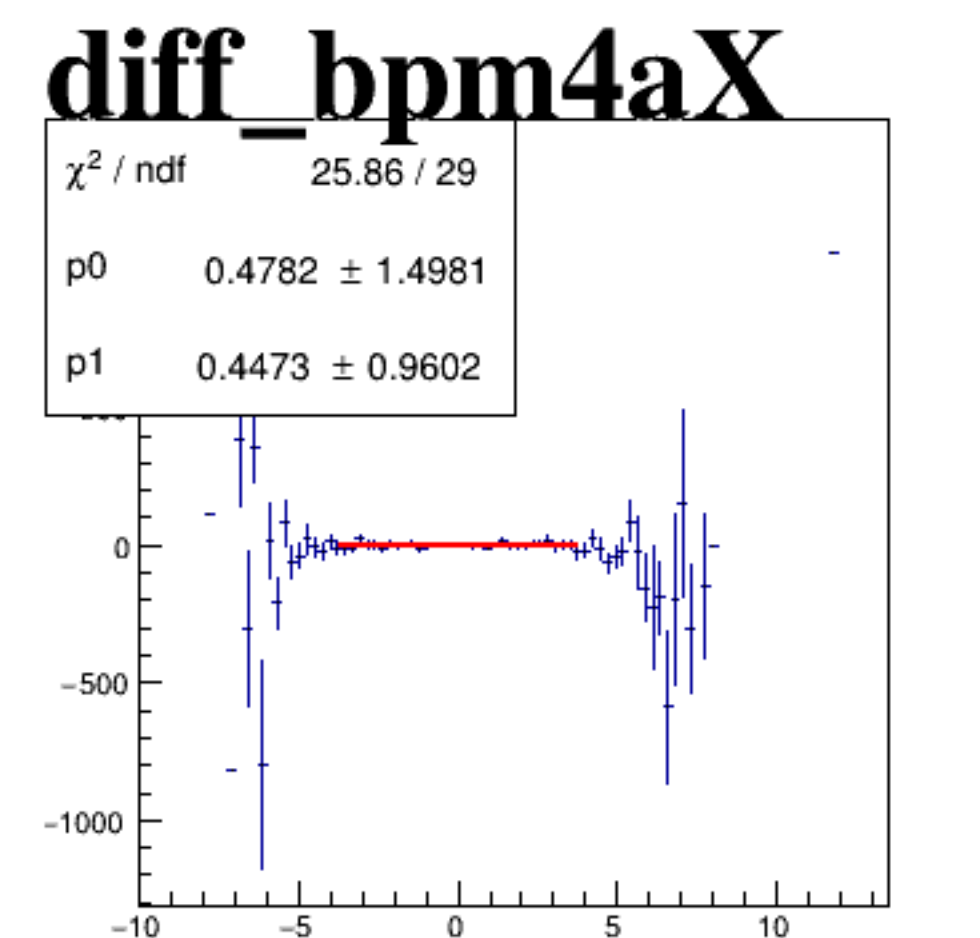
reg_asym_sam1



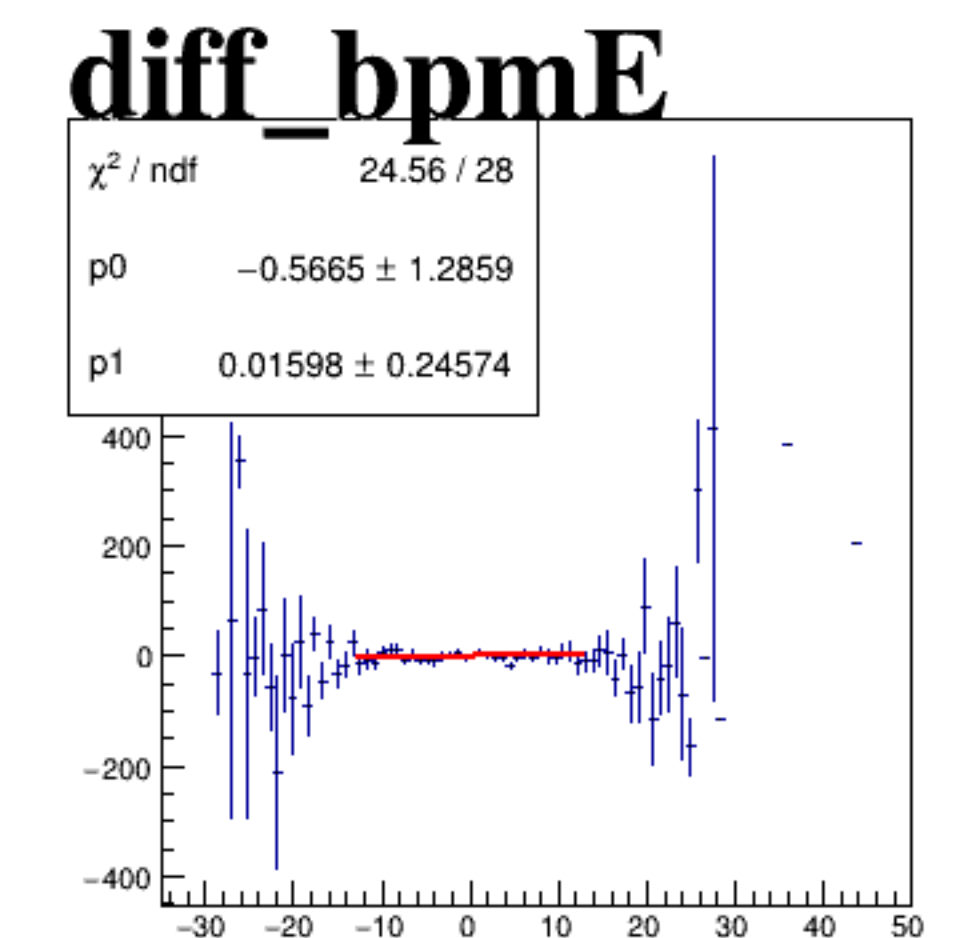
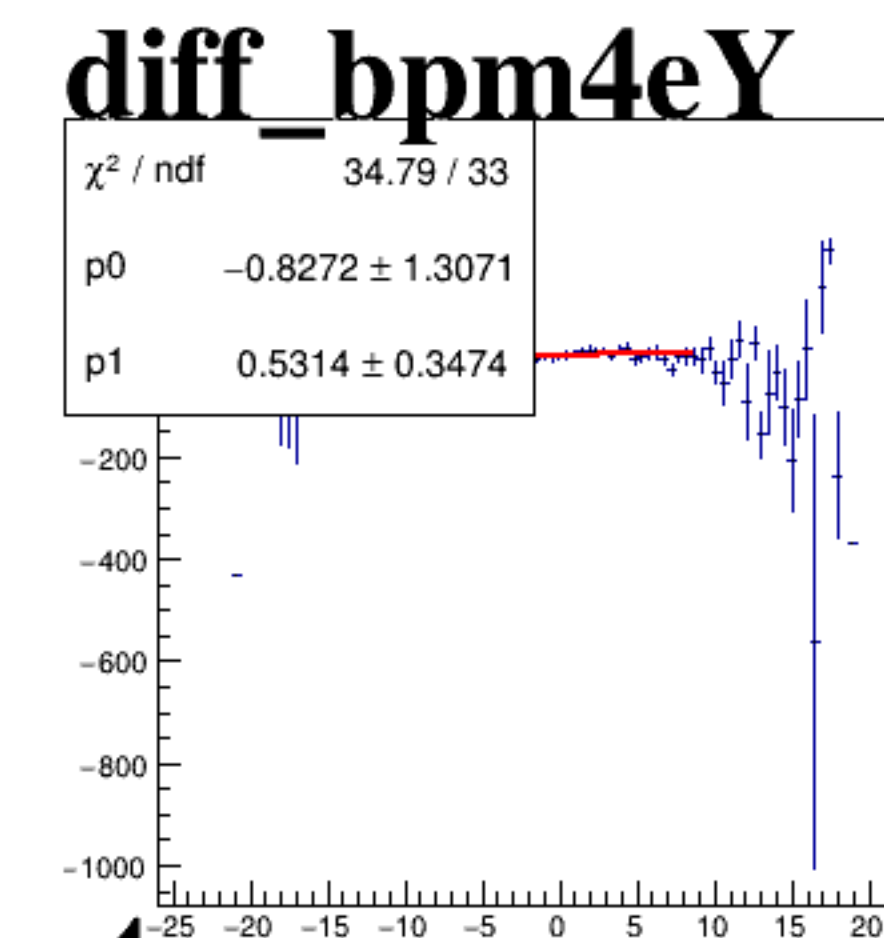
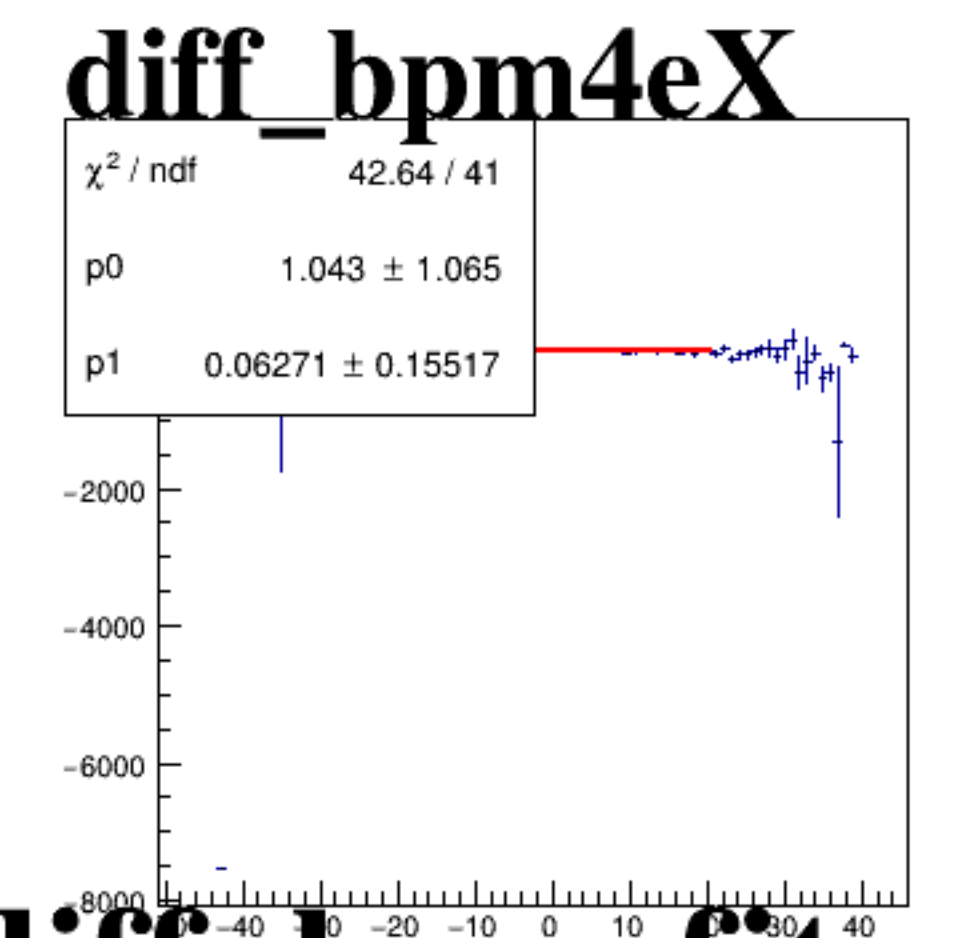
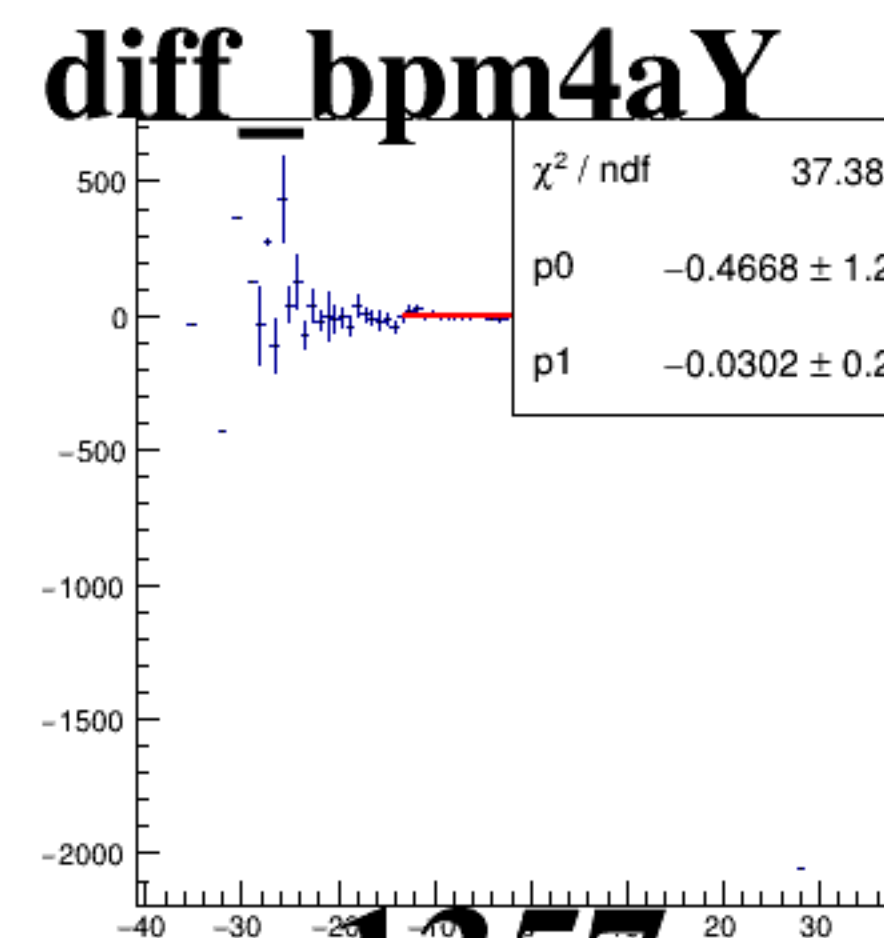
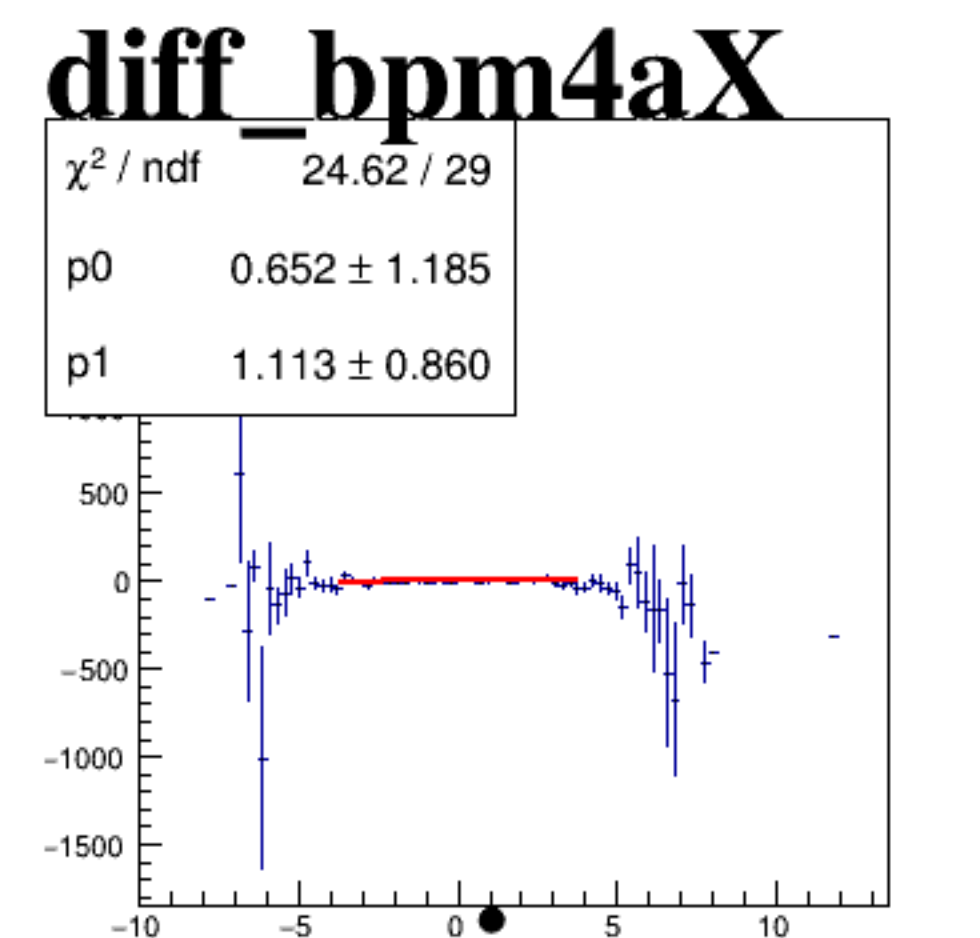
reg_asym_sam3



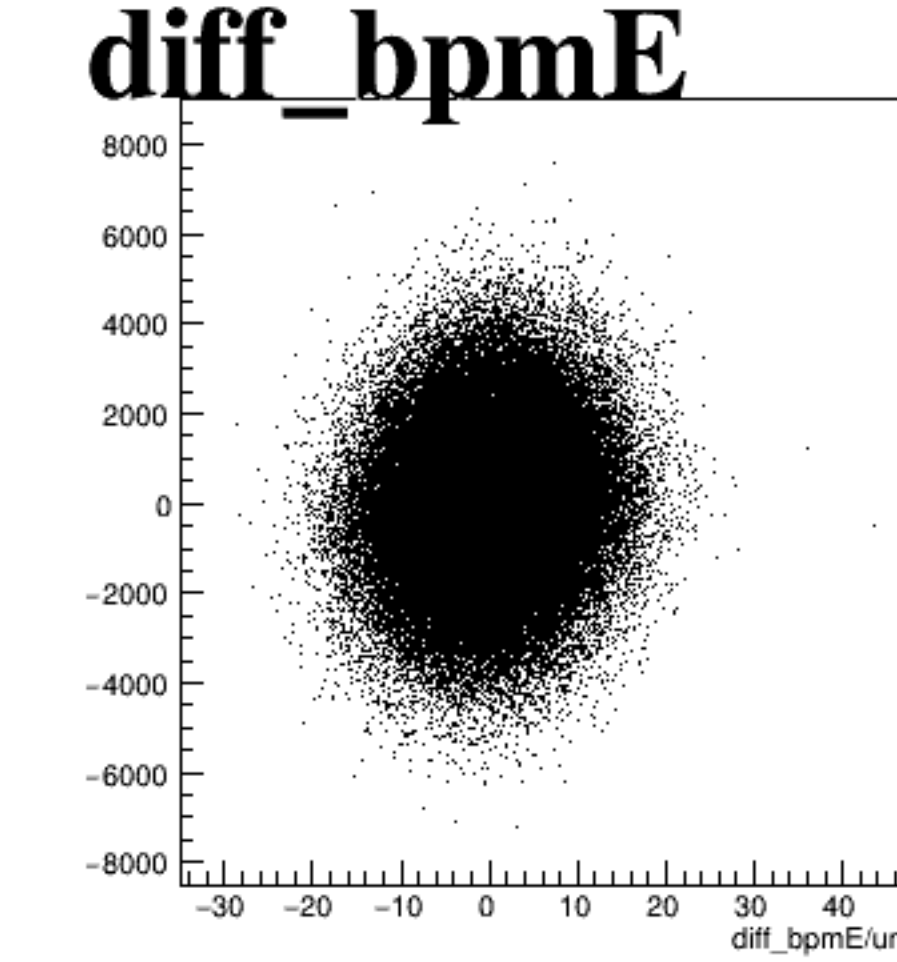
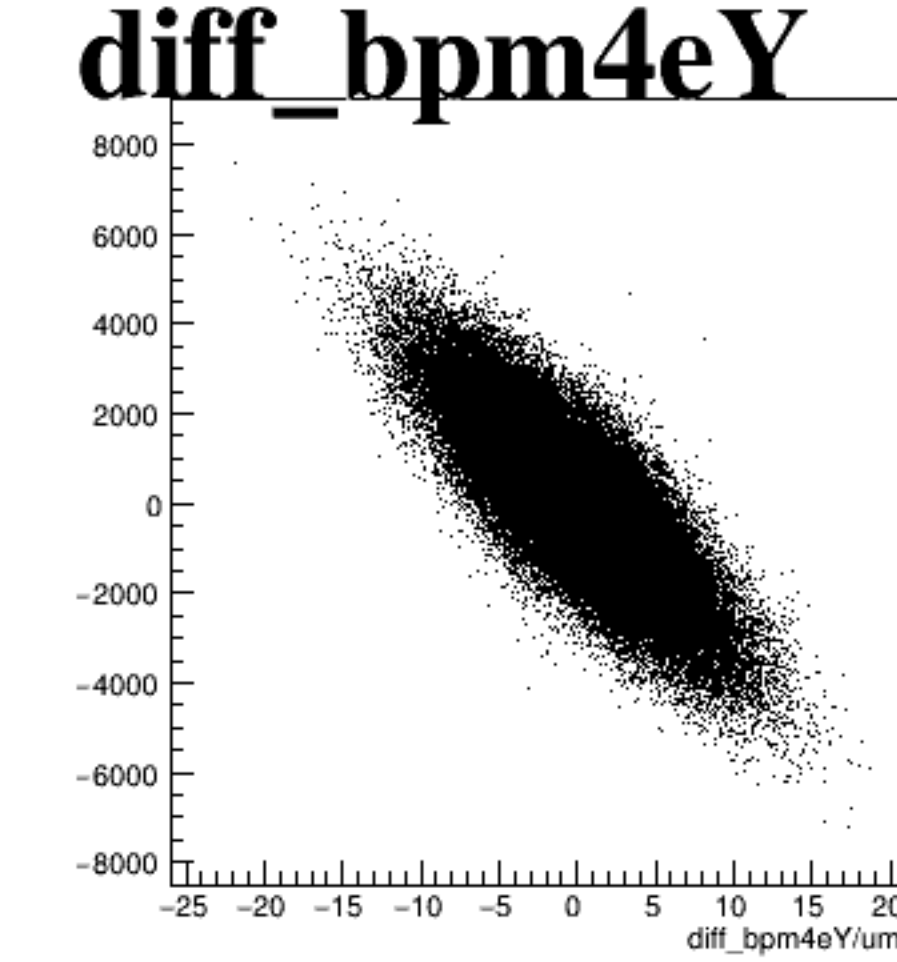
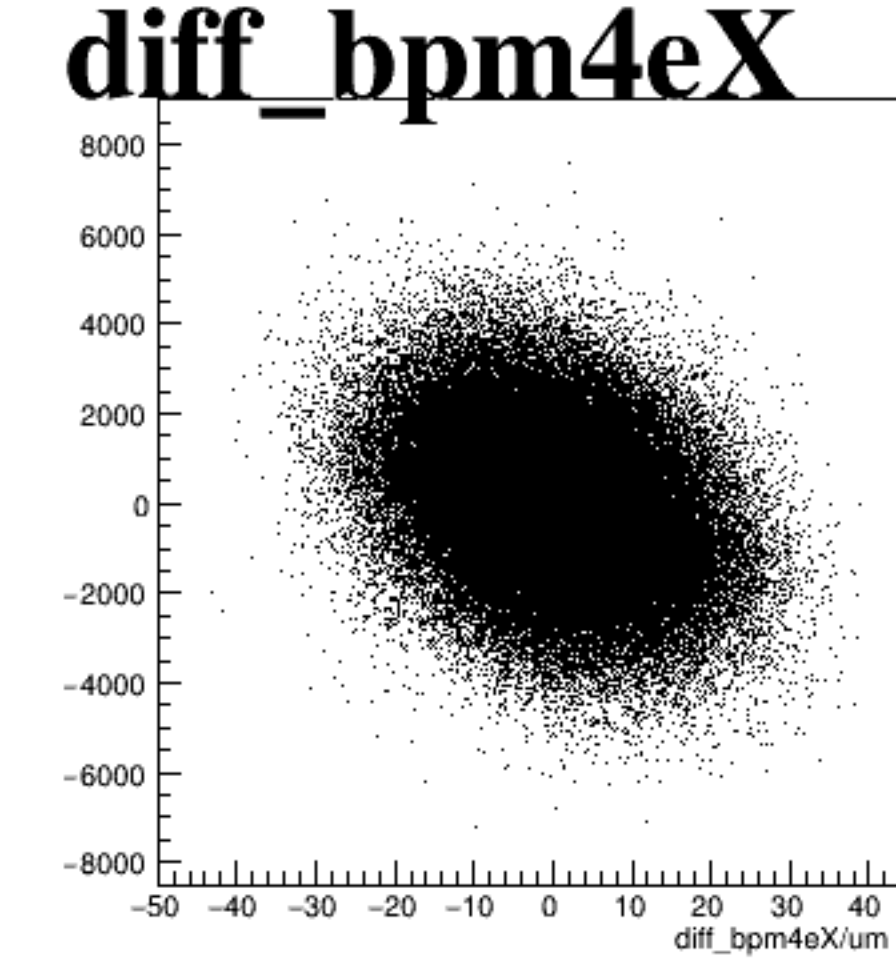
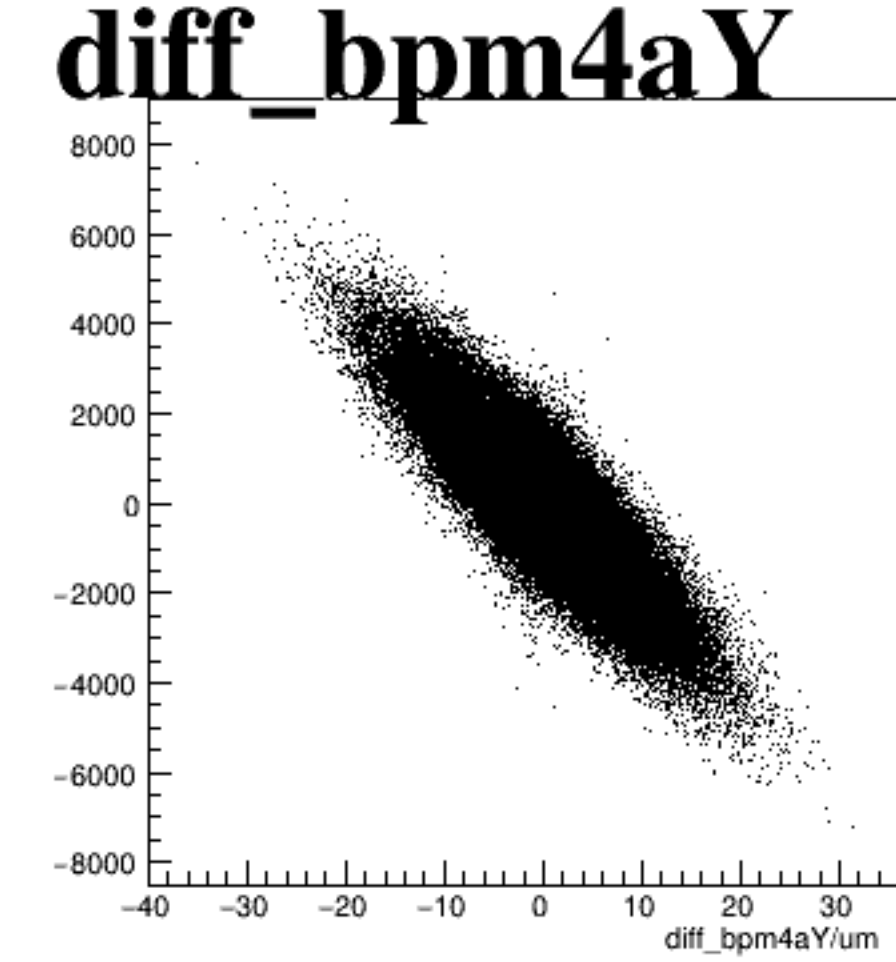
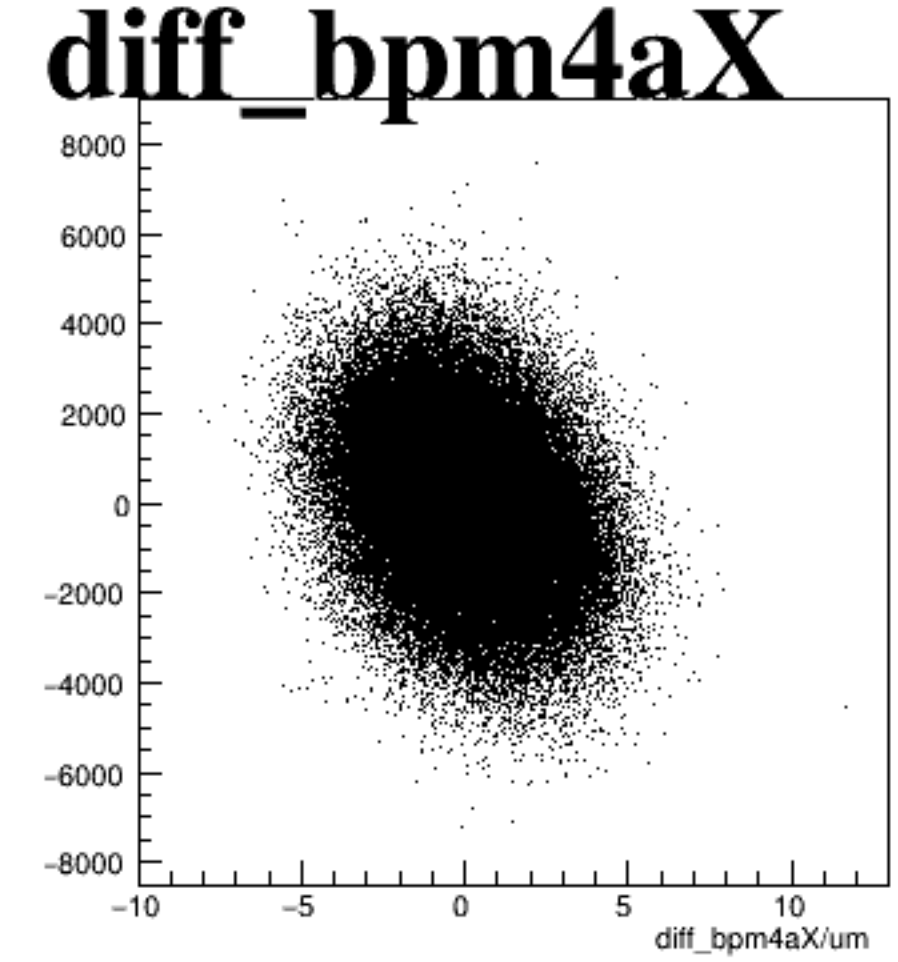
reg_asym_sam5



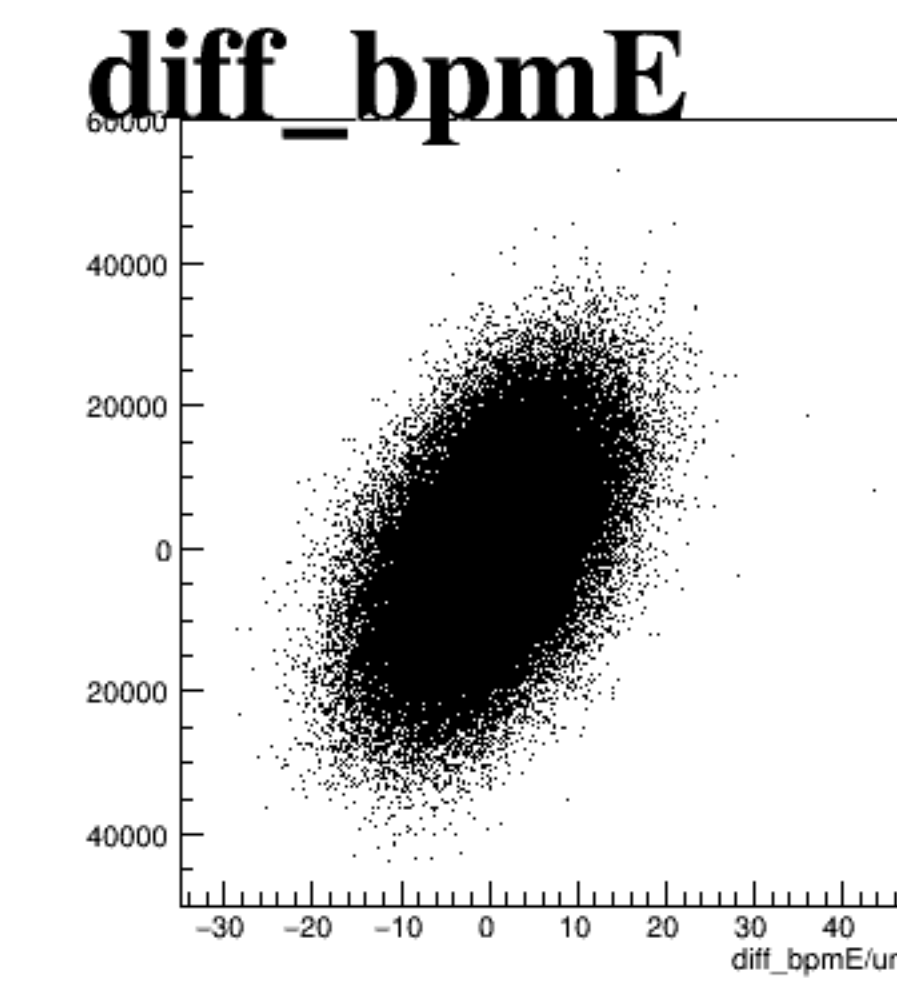
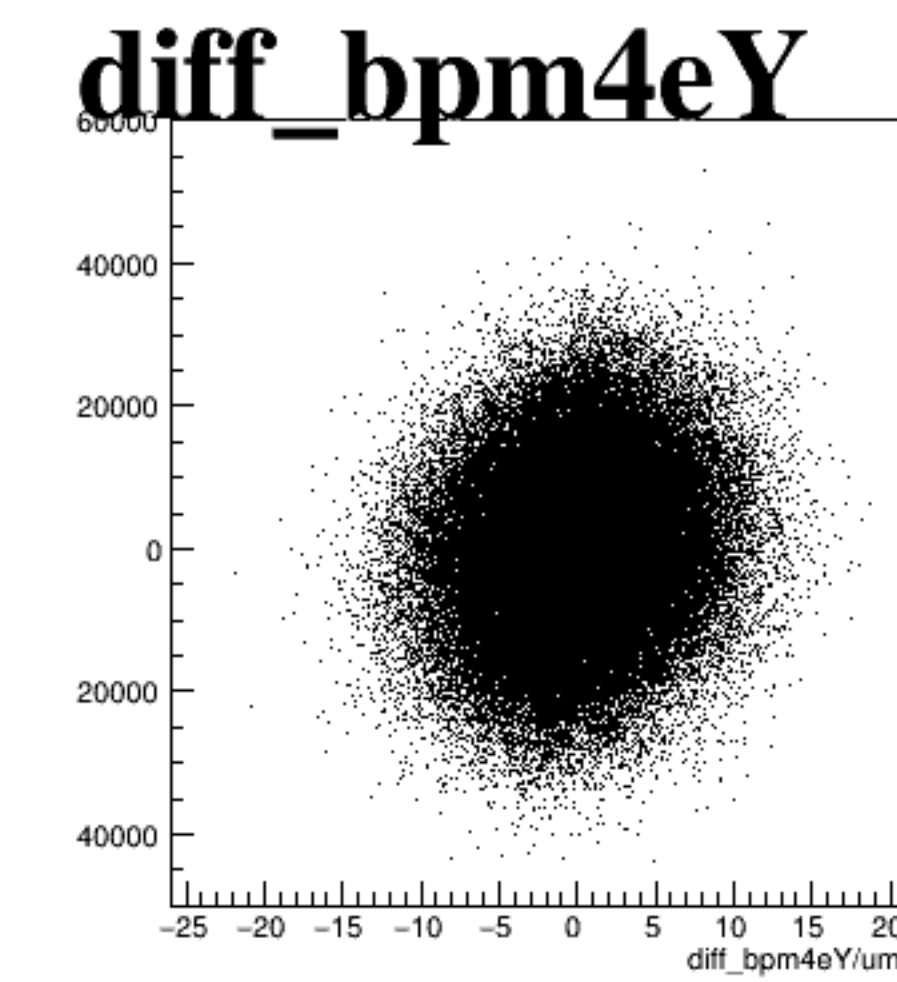
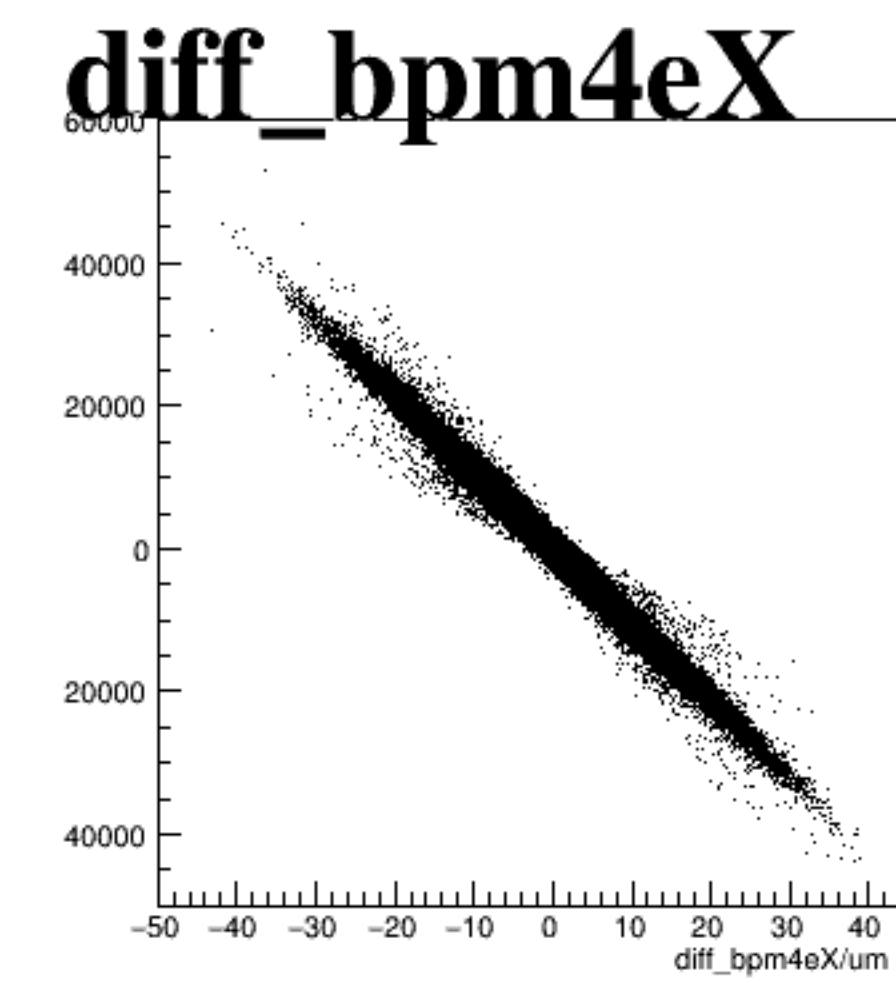
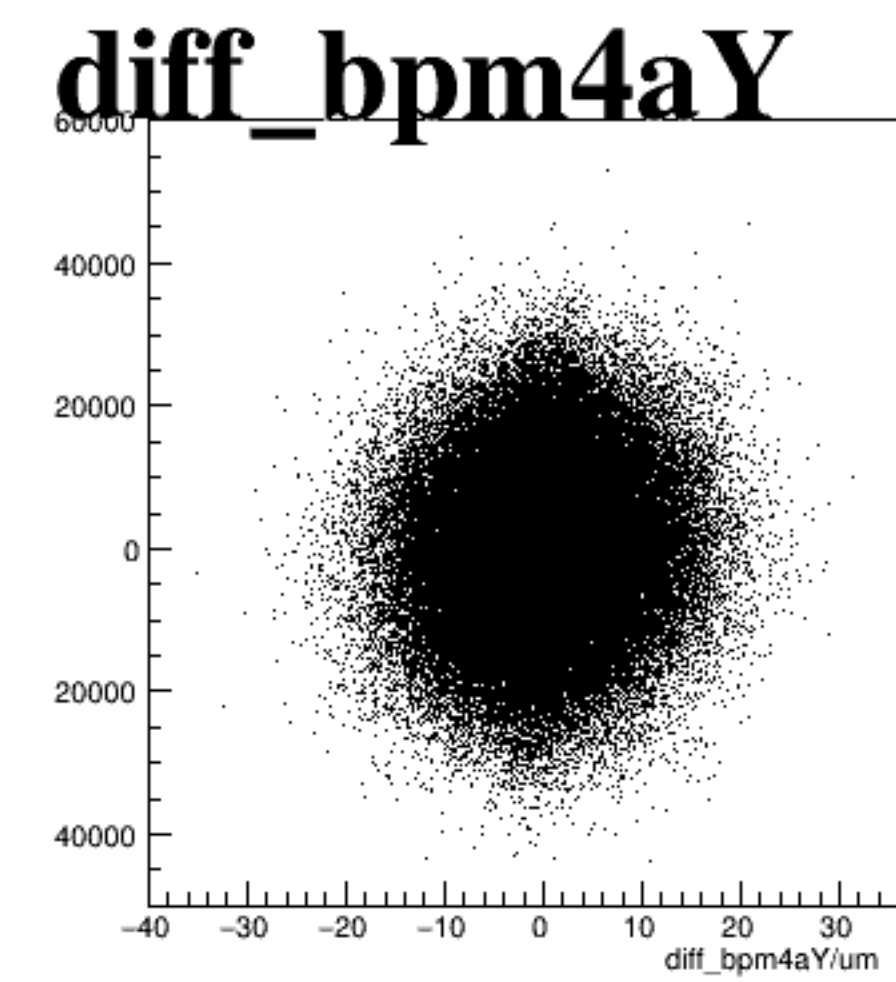
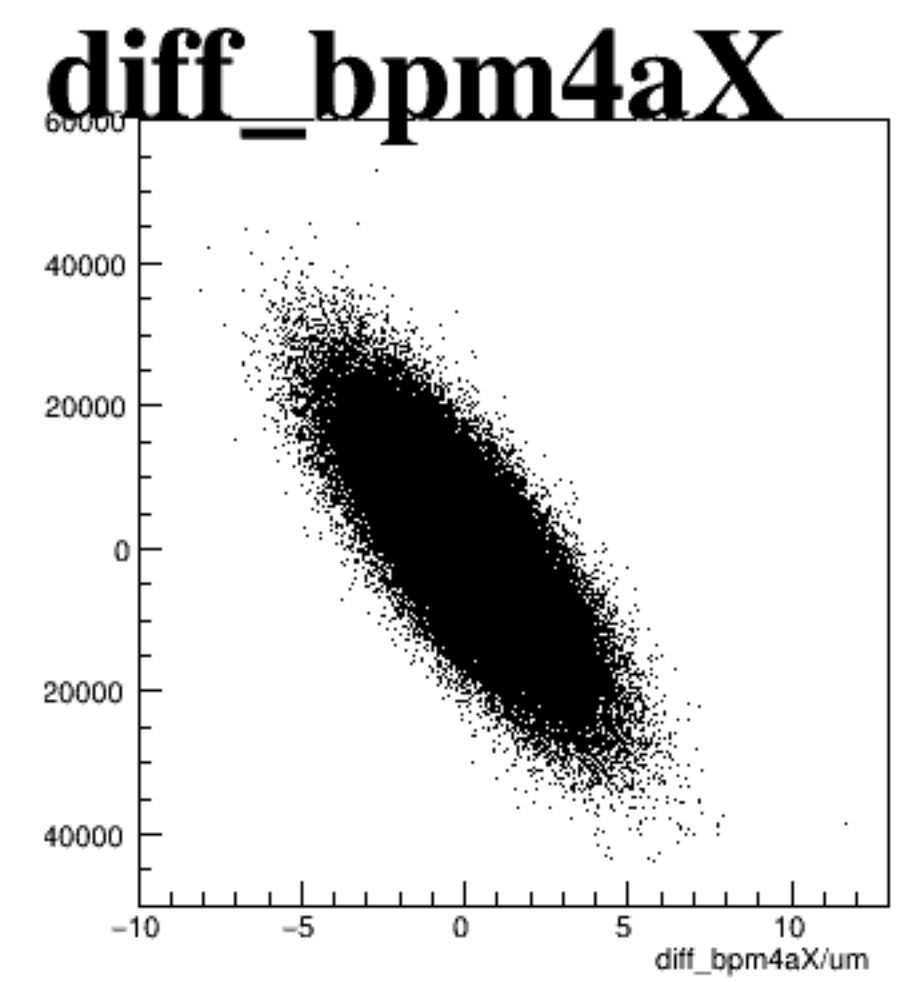
reg_asym_sam7



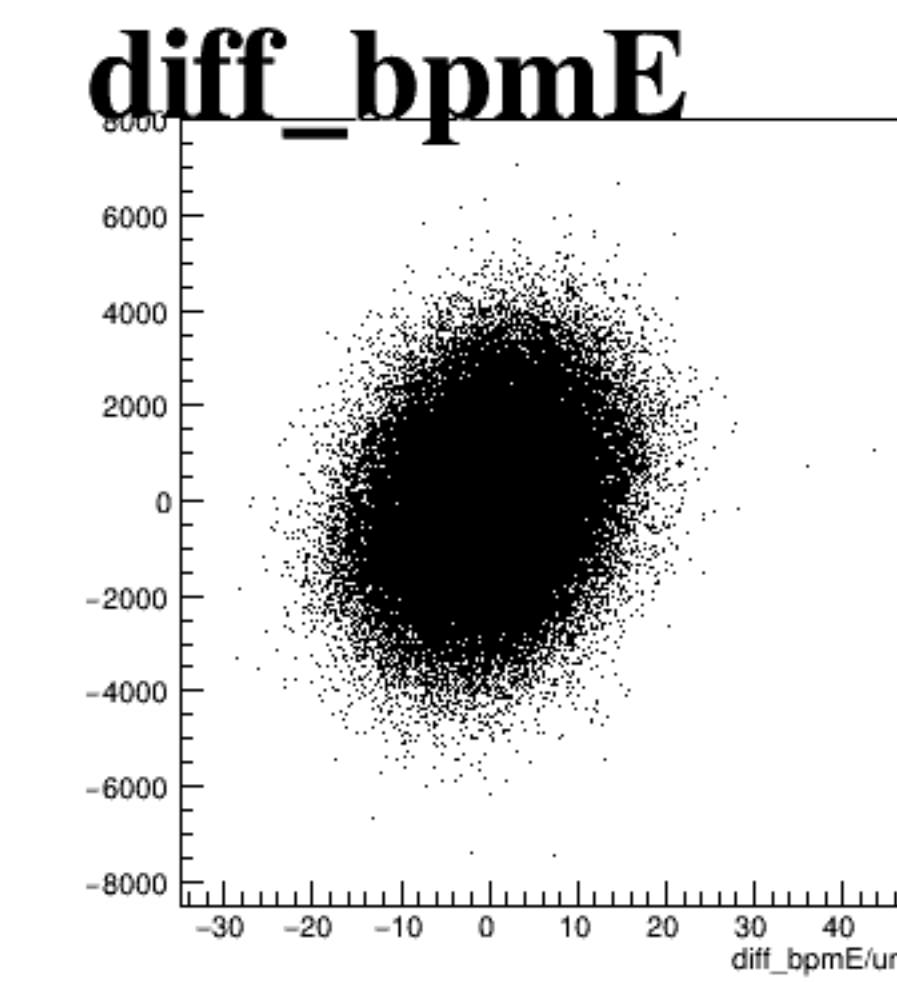
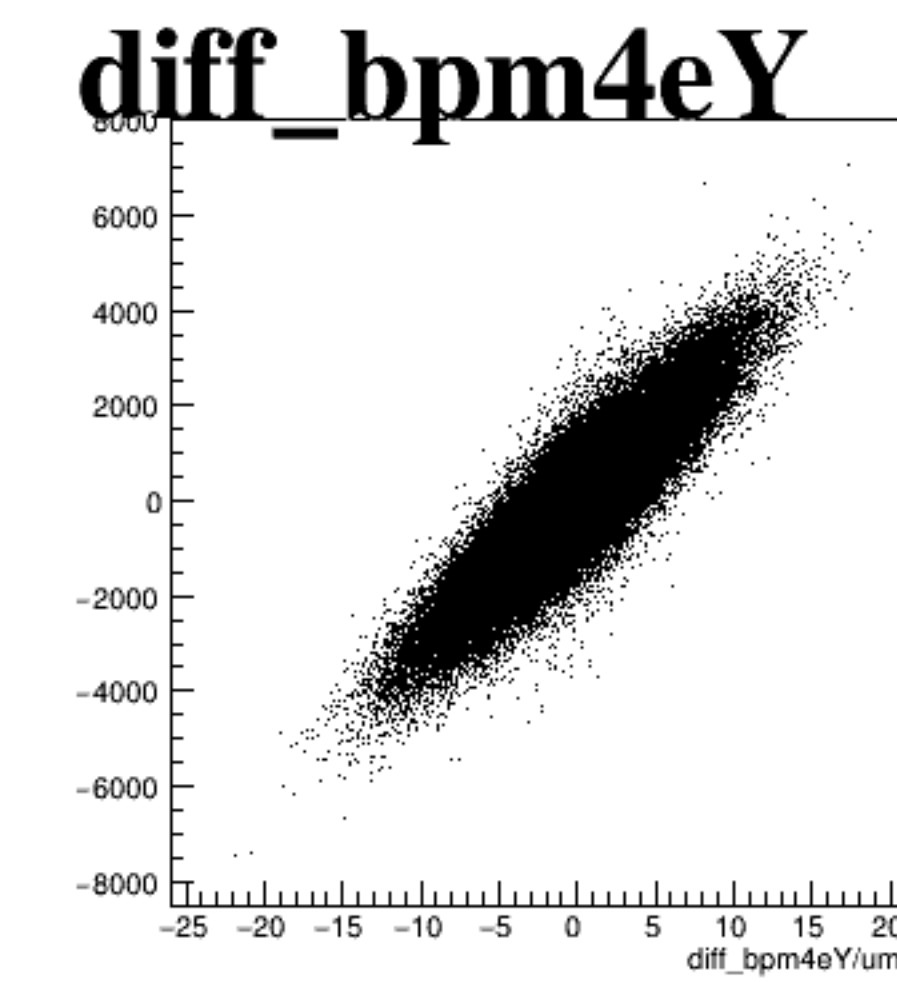
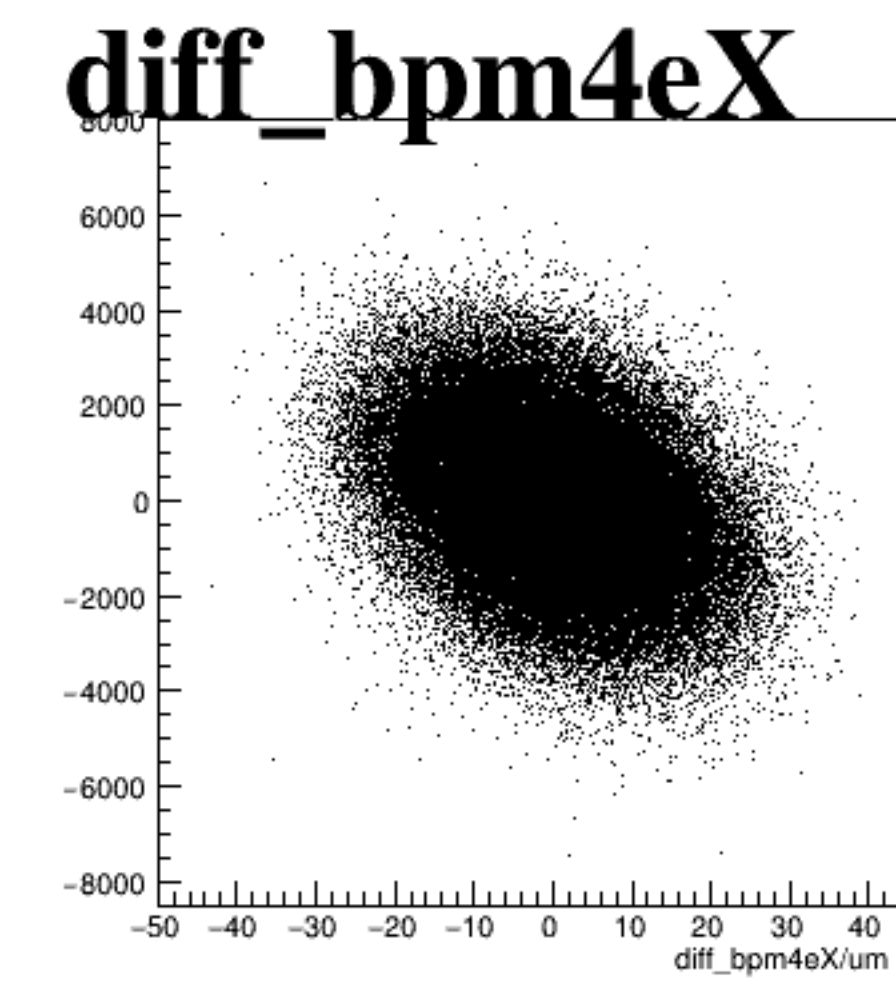
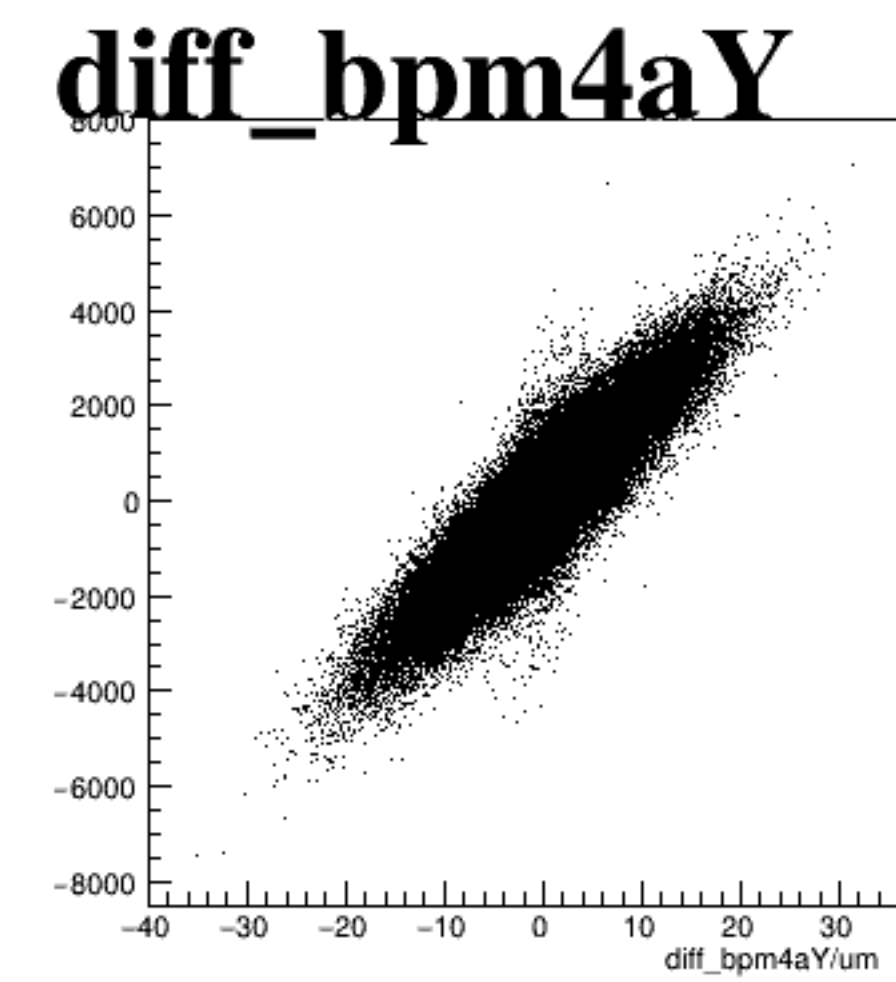
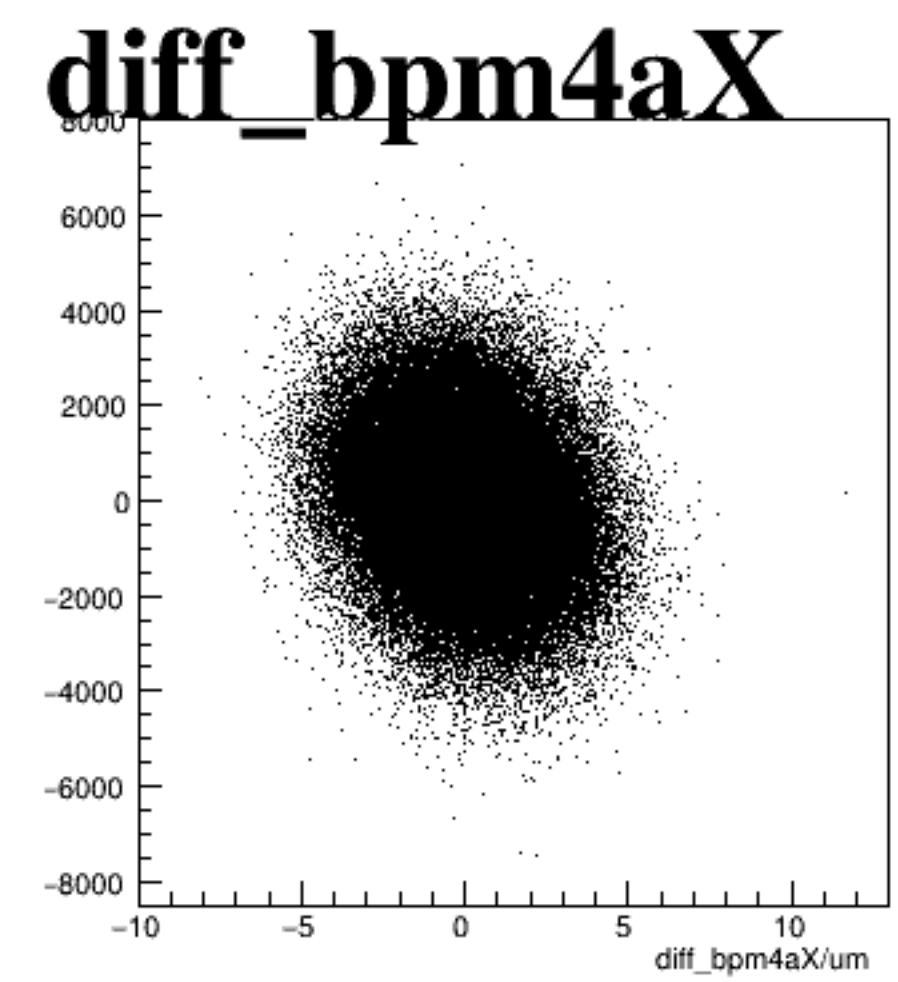
asym_sam1



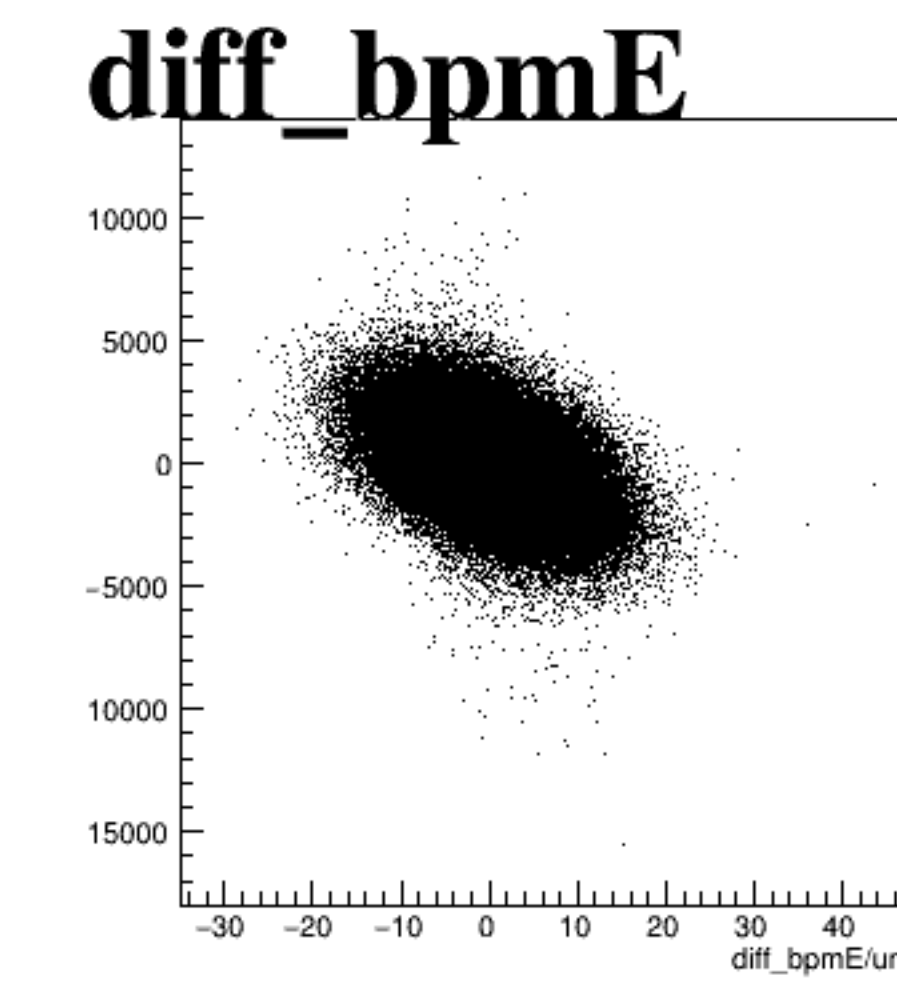
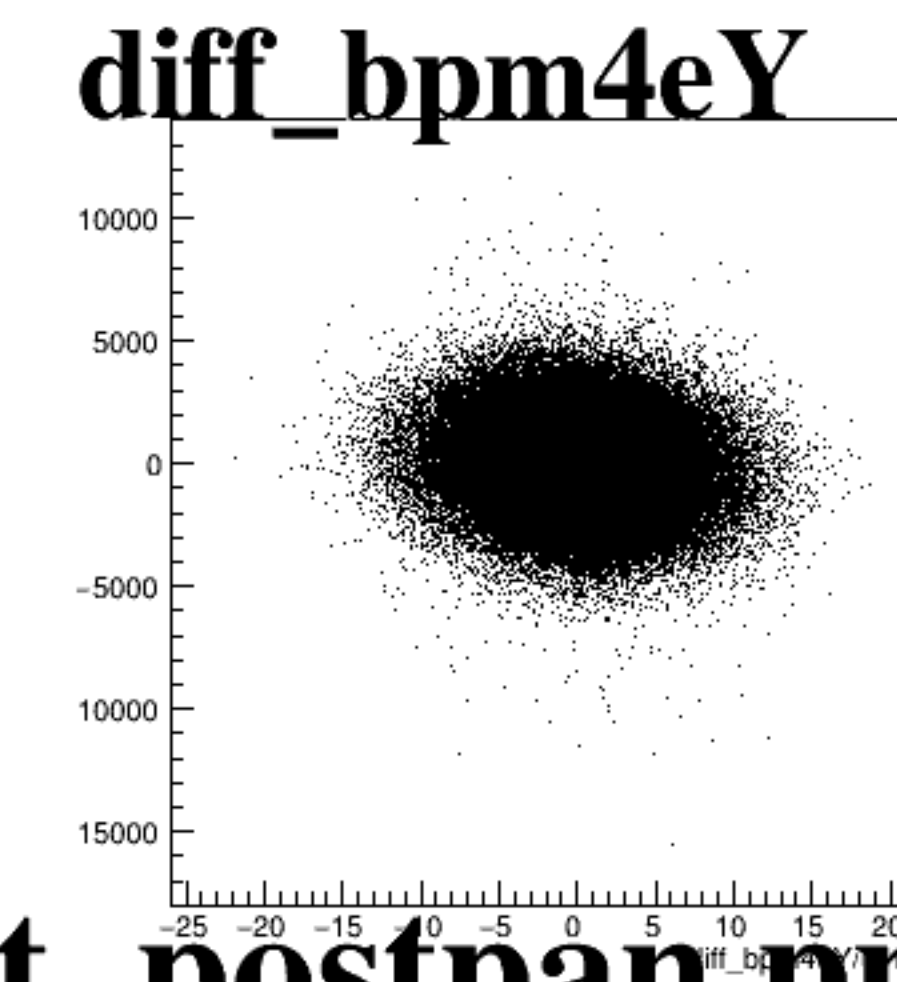
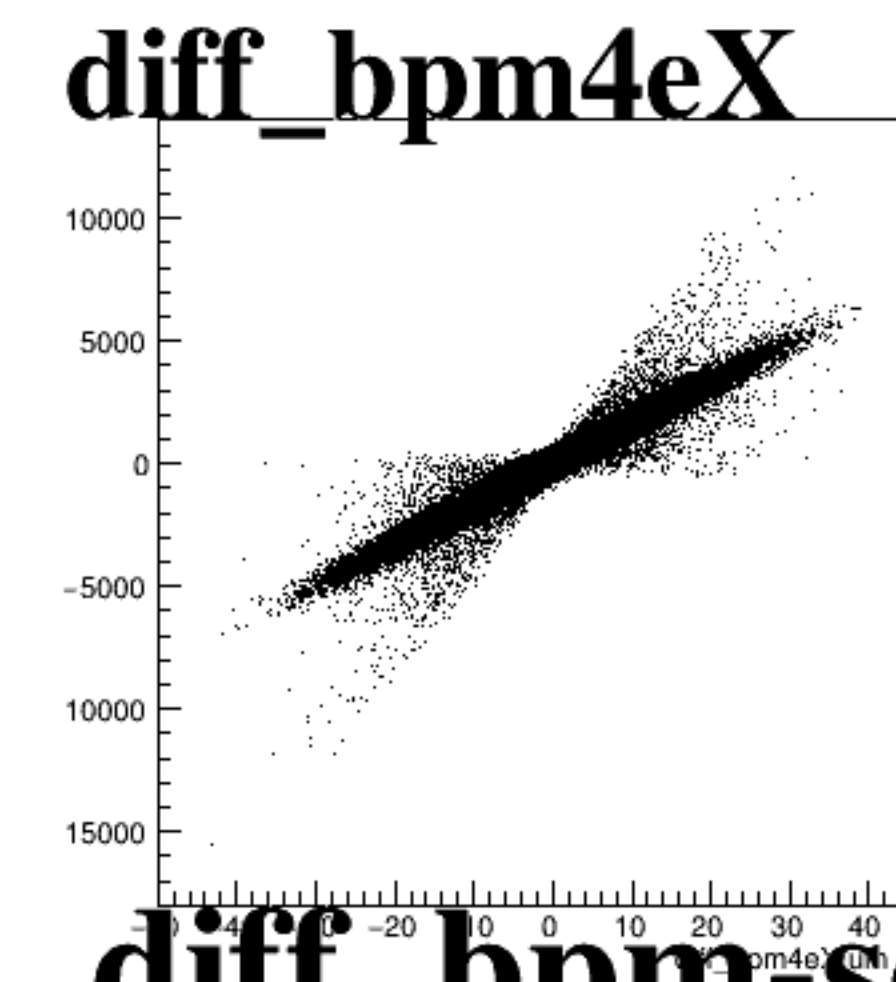
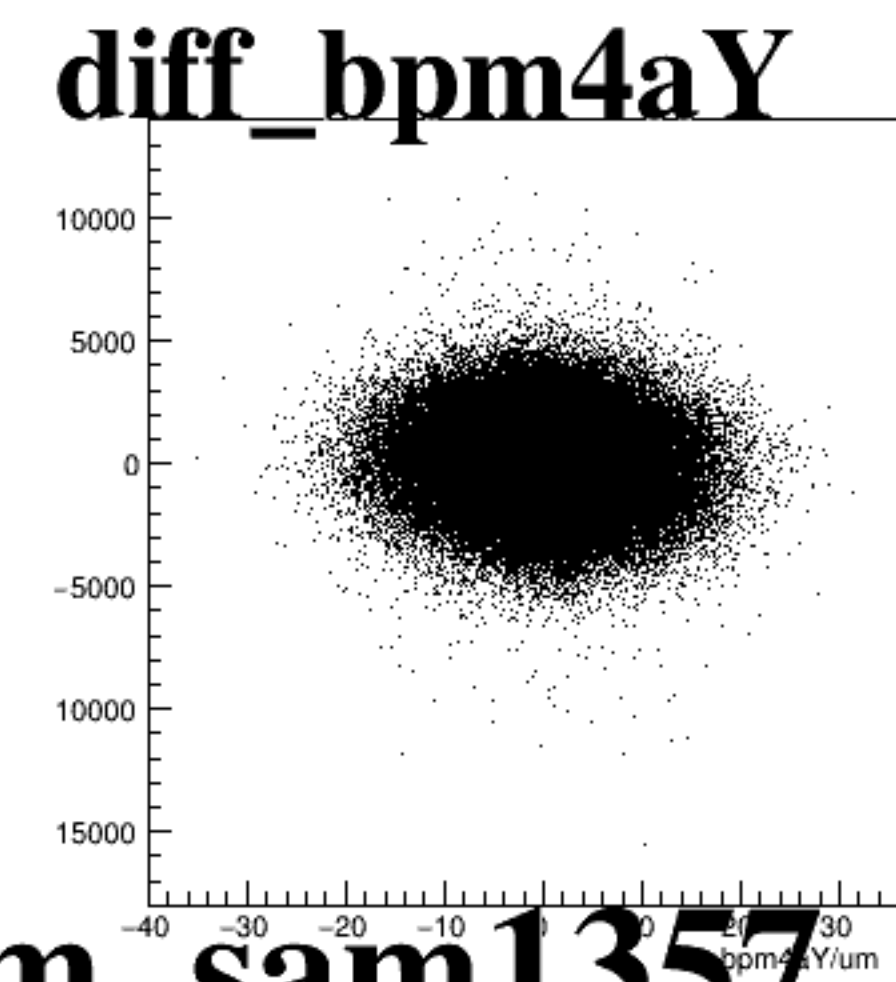
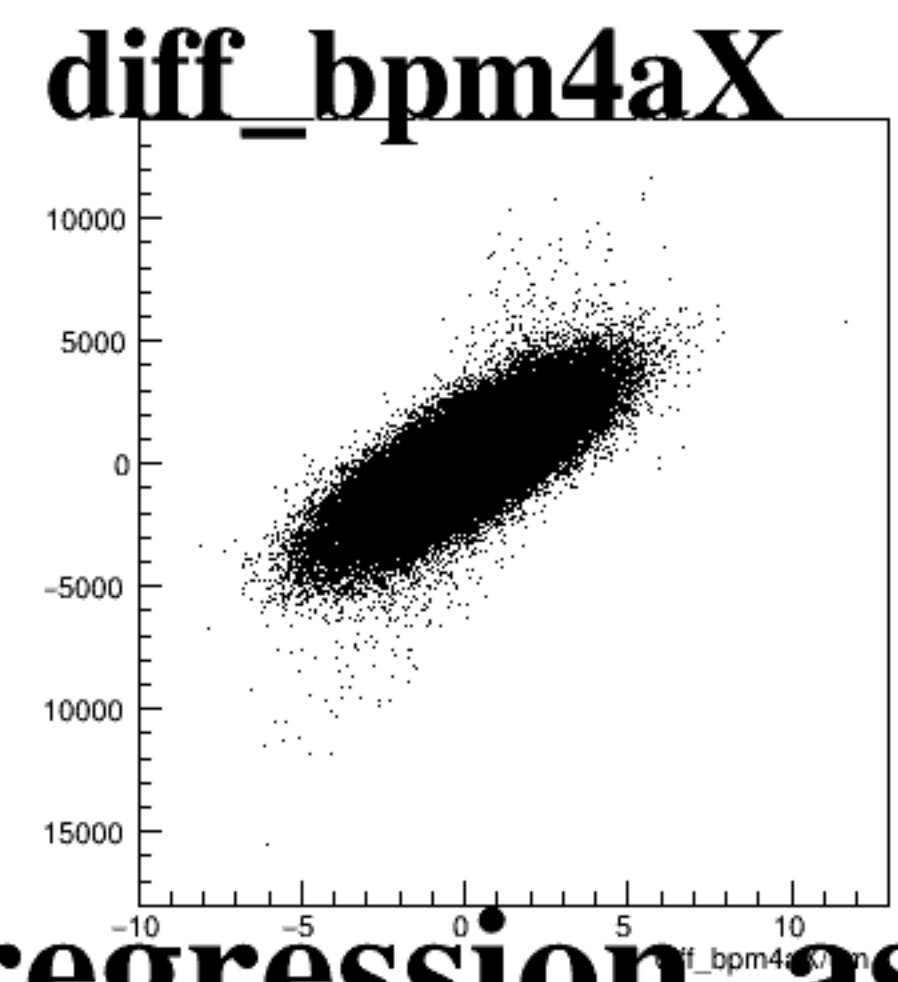
asym_sam3



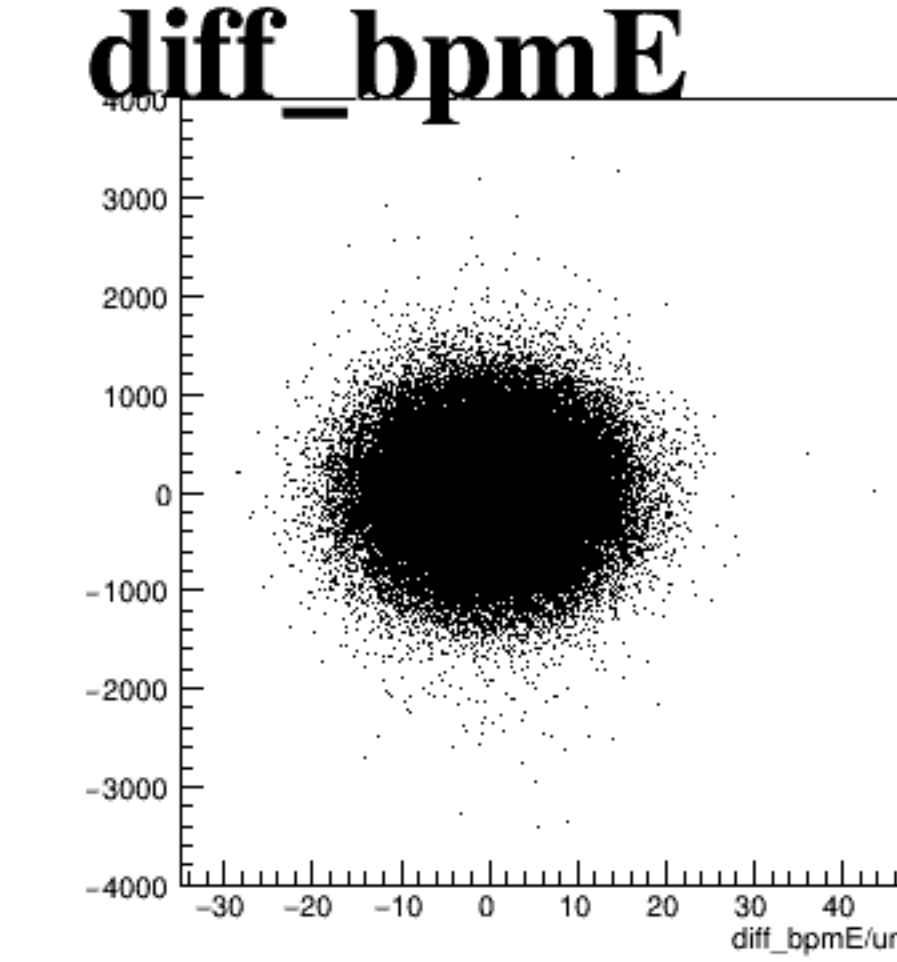
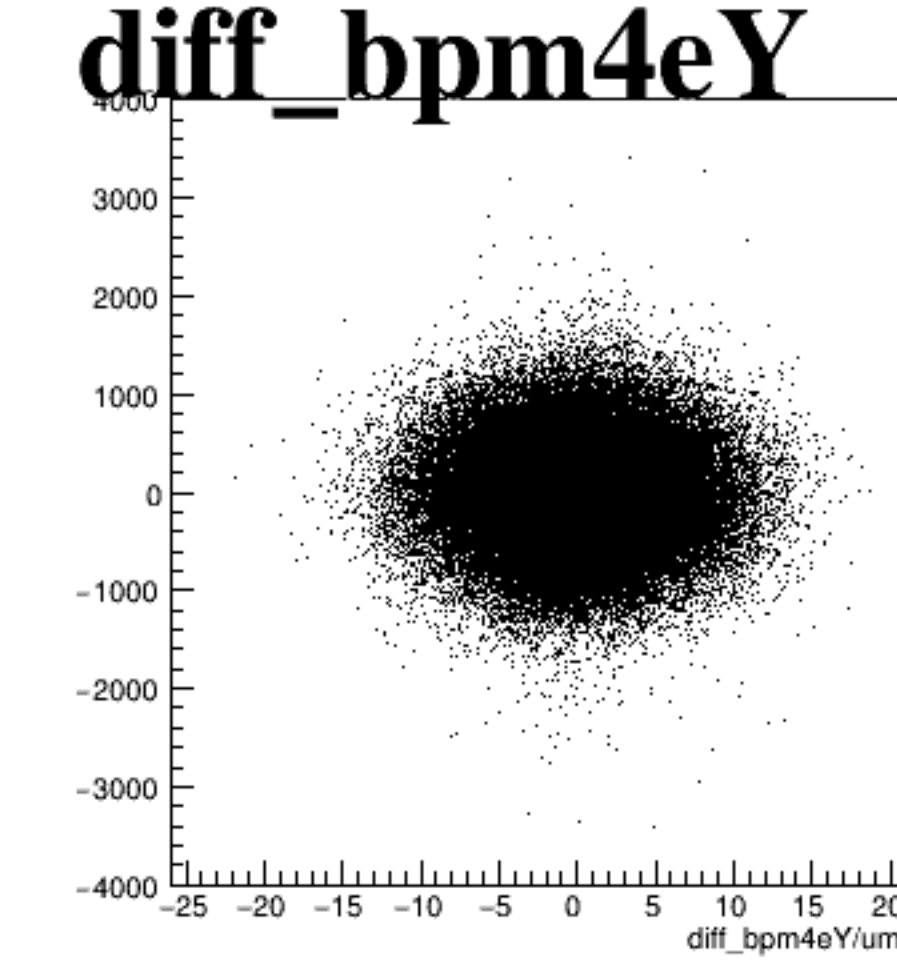
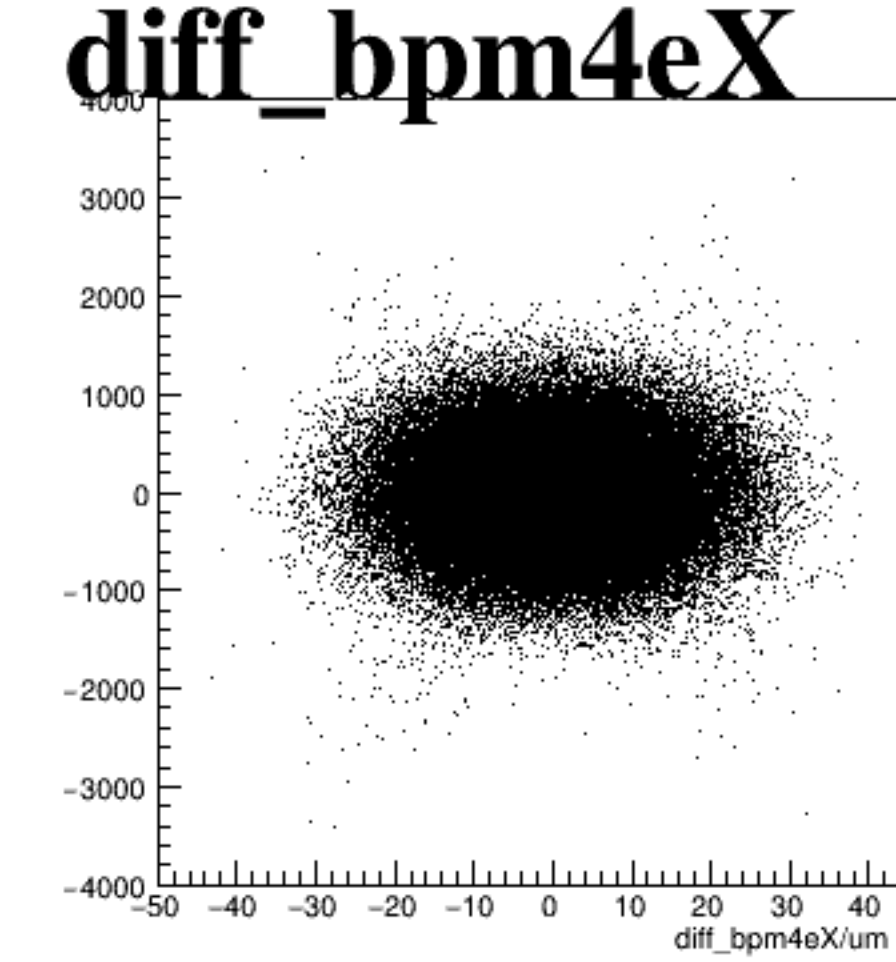
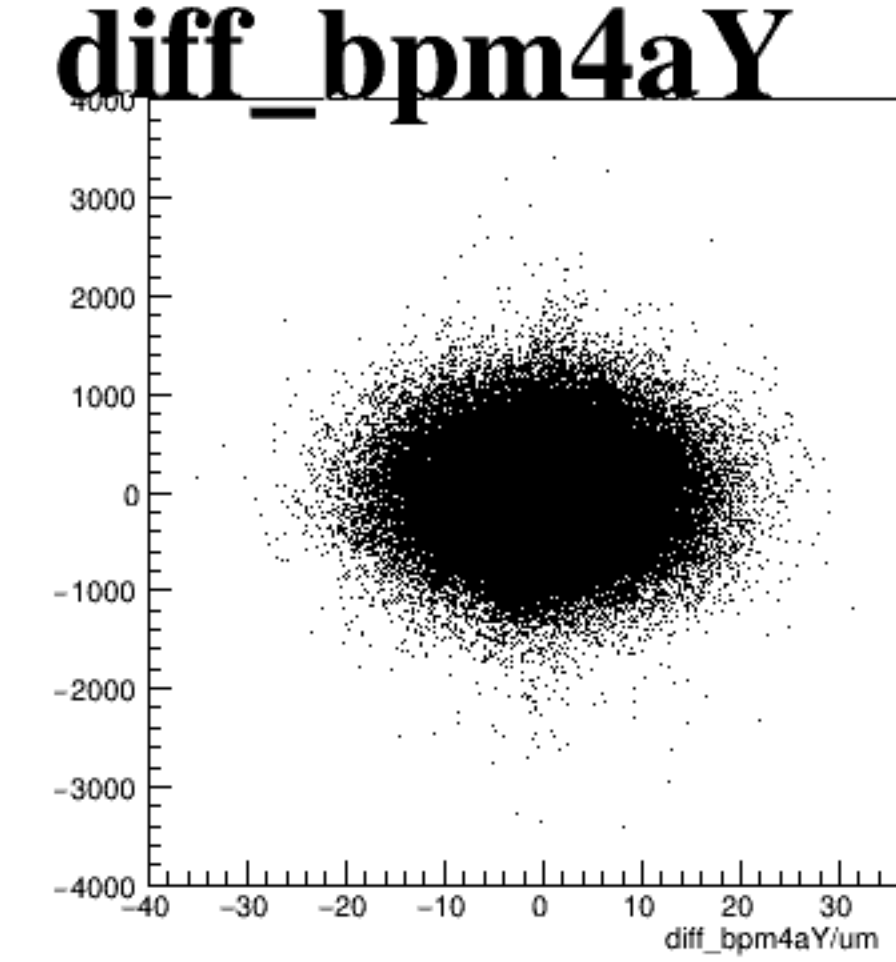
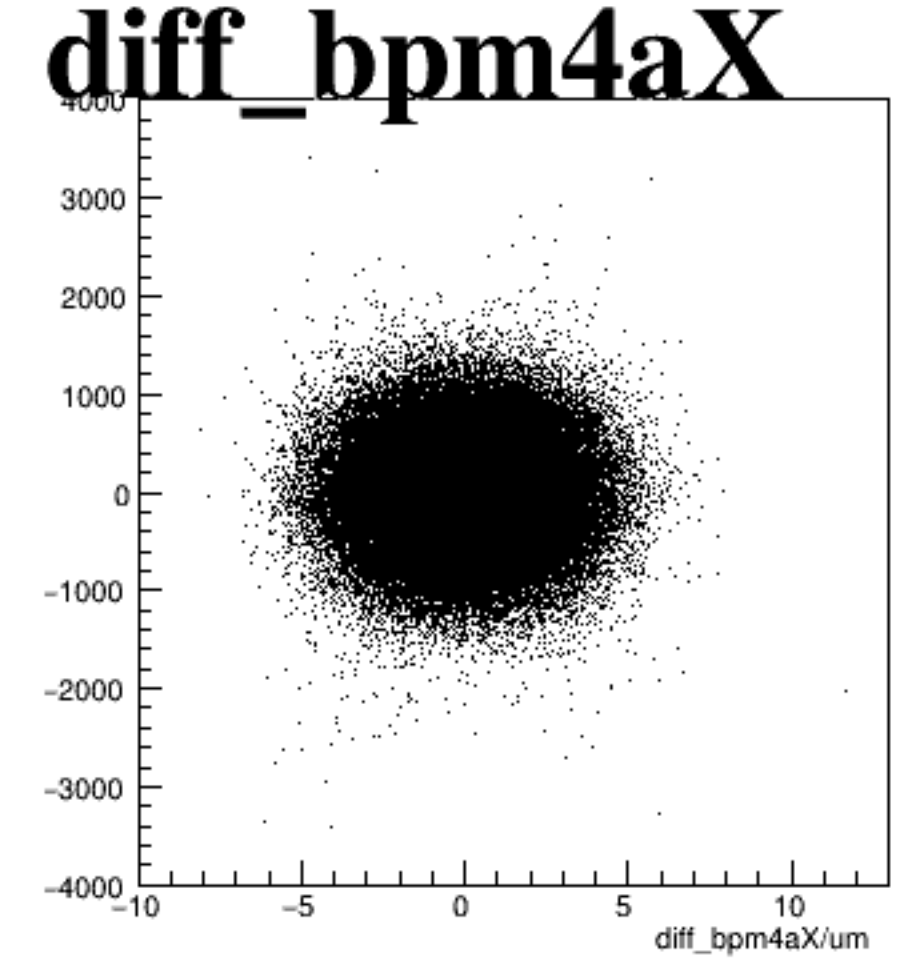
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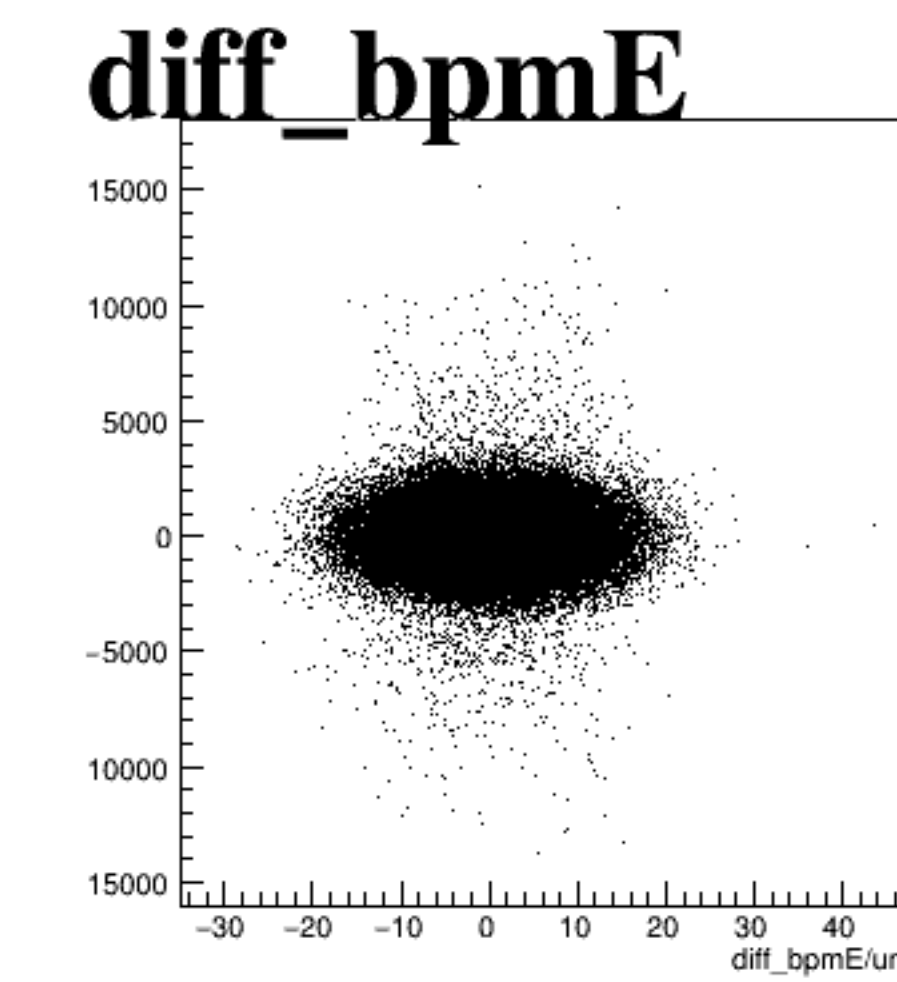
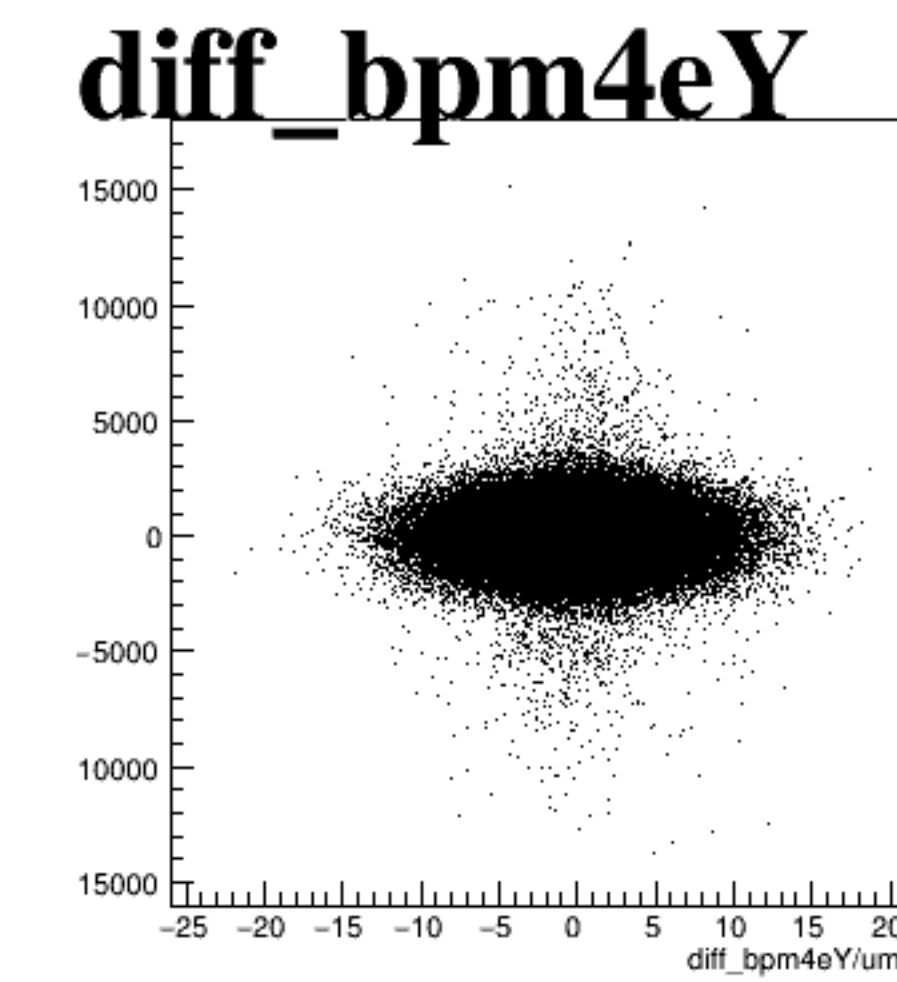
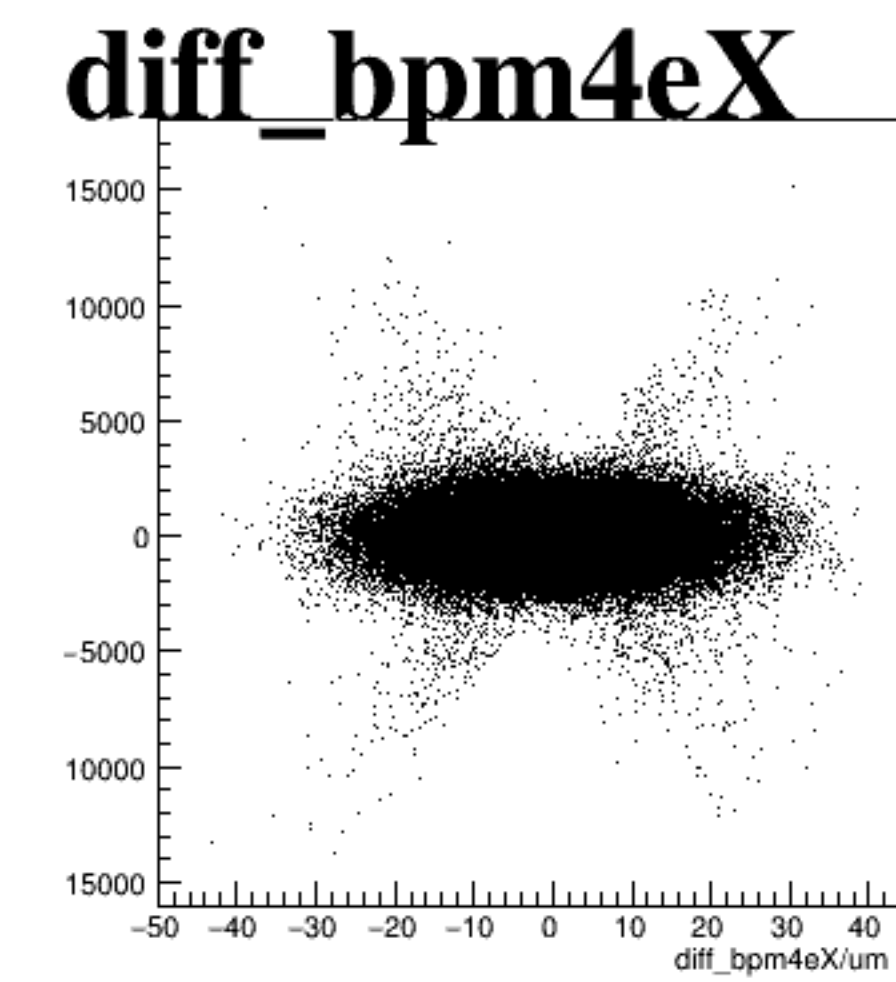
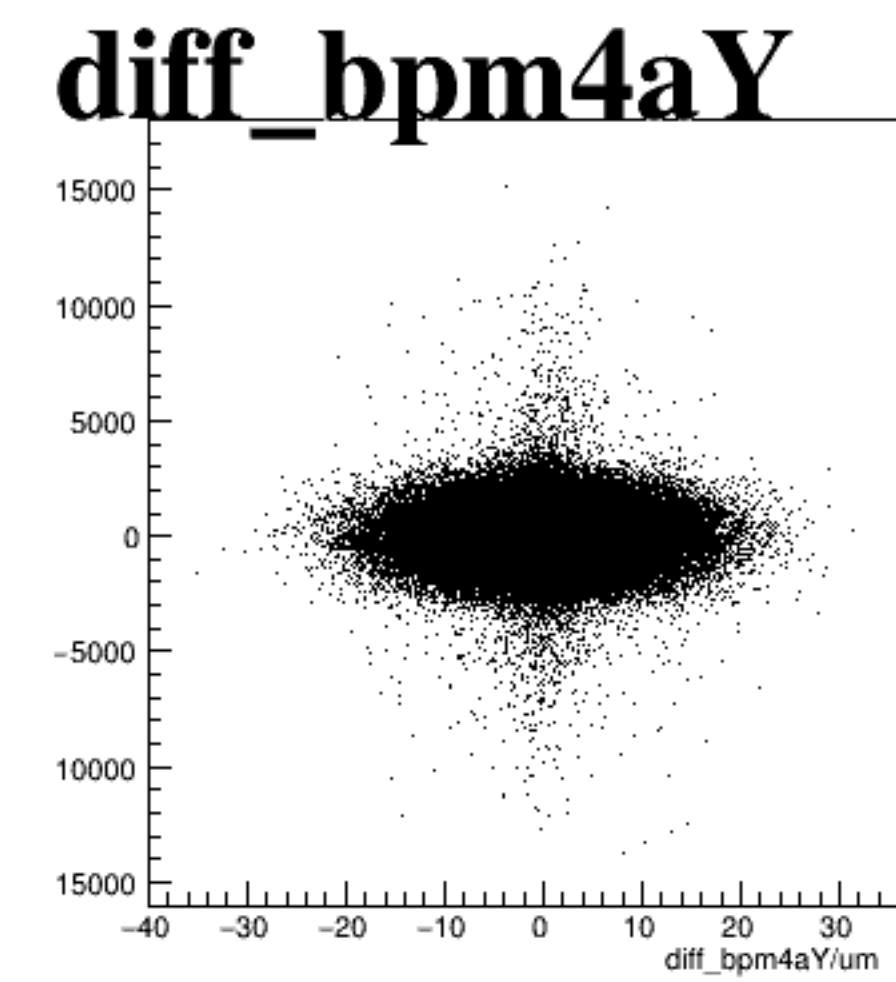
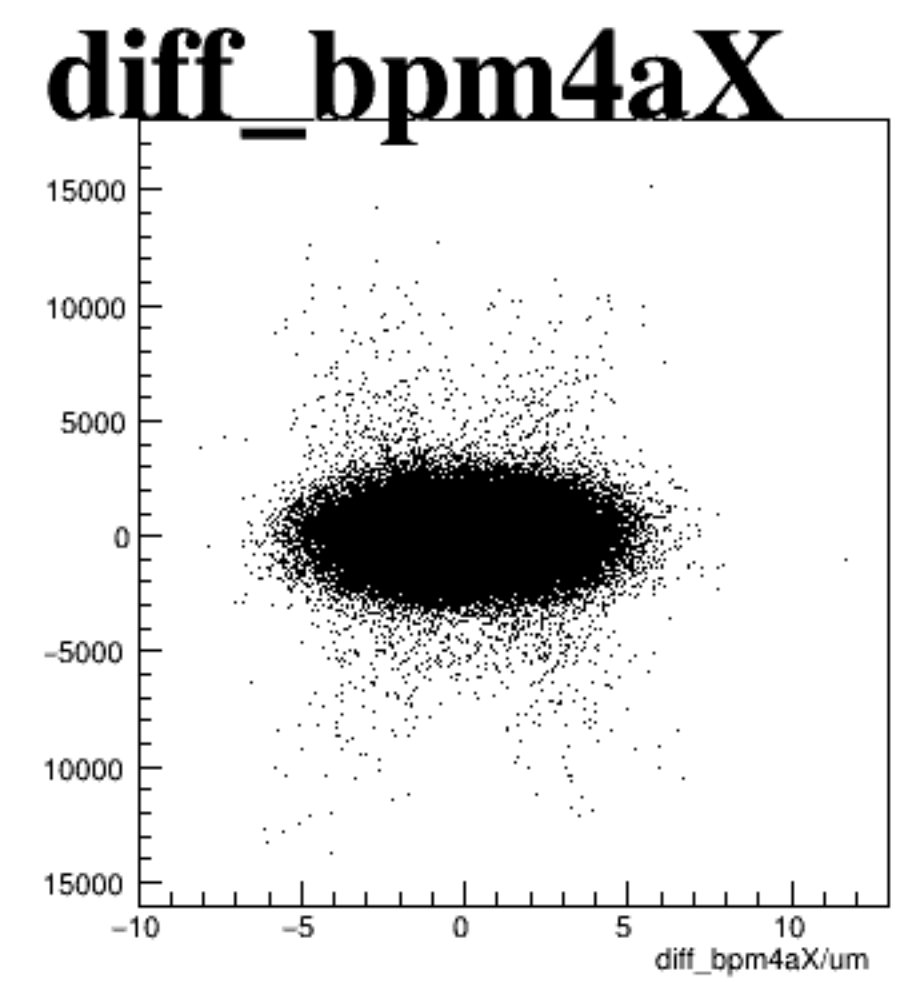
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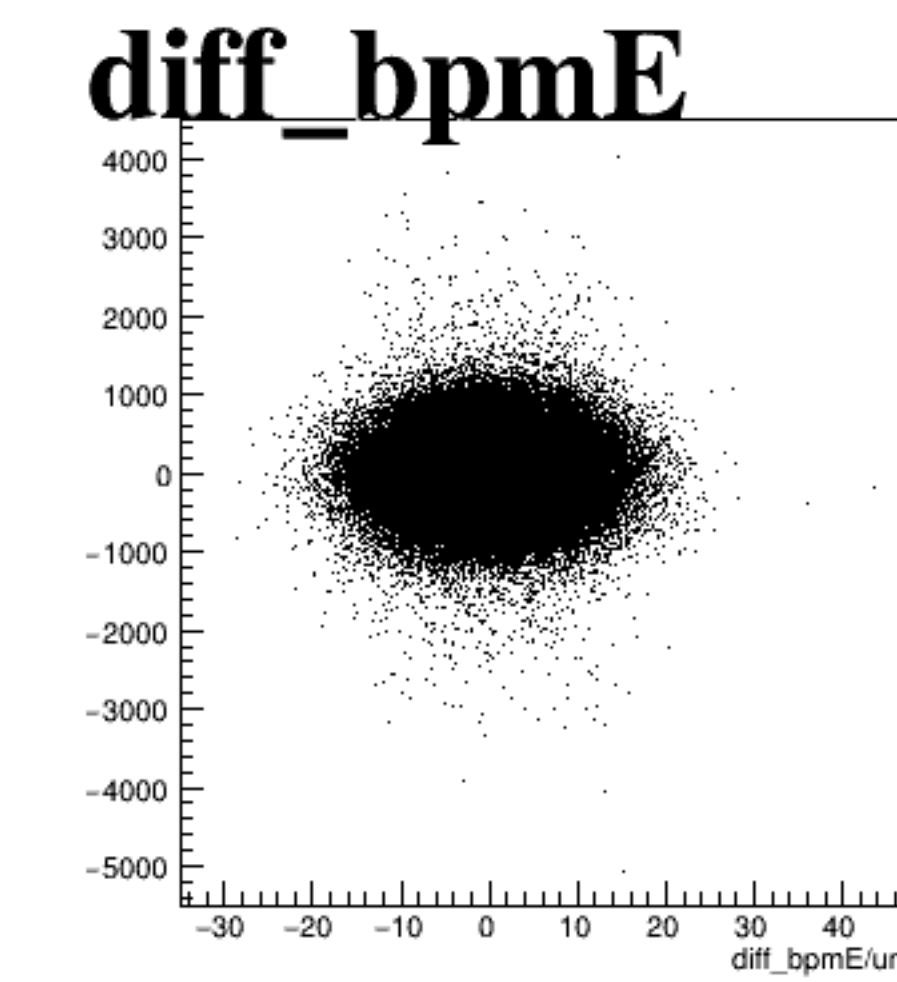
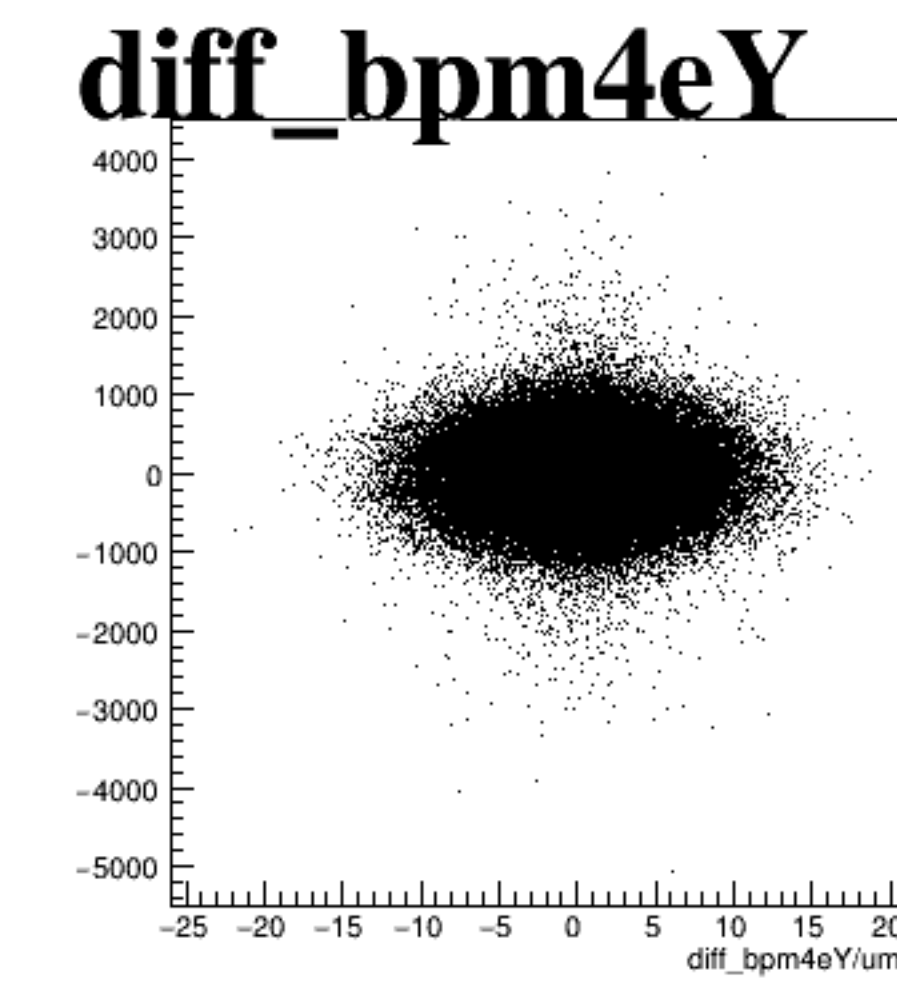
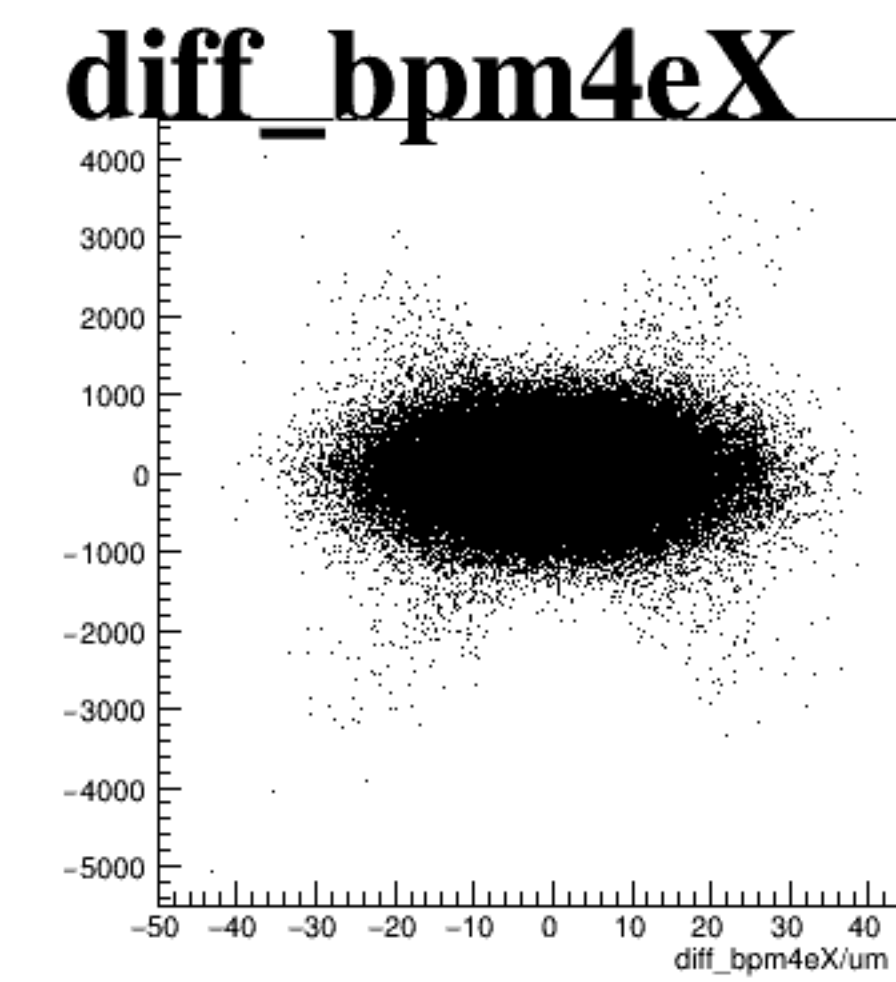
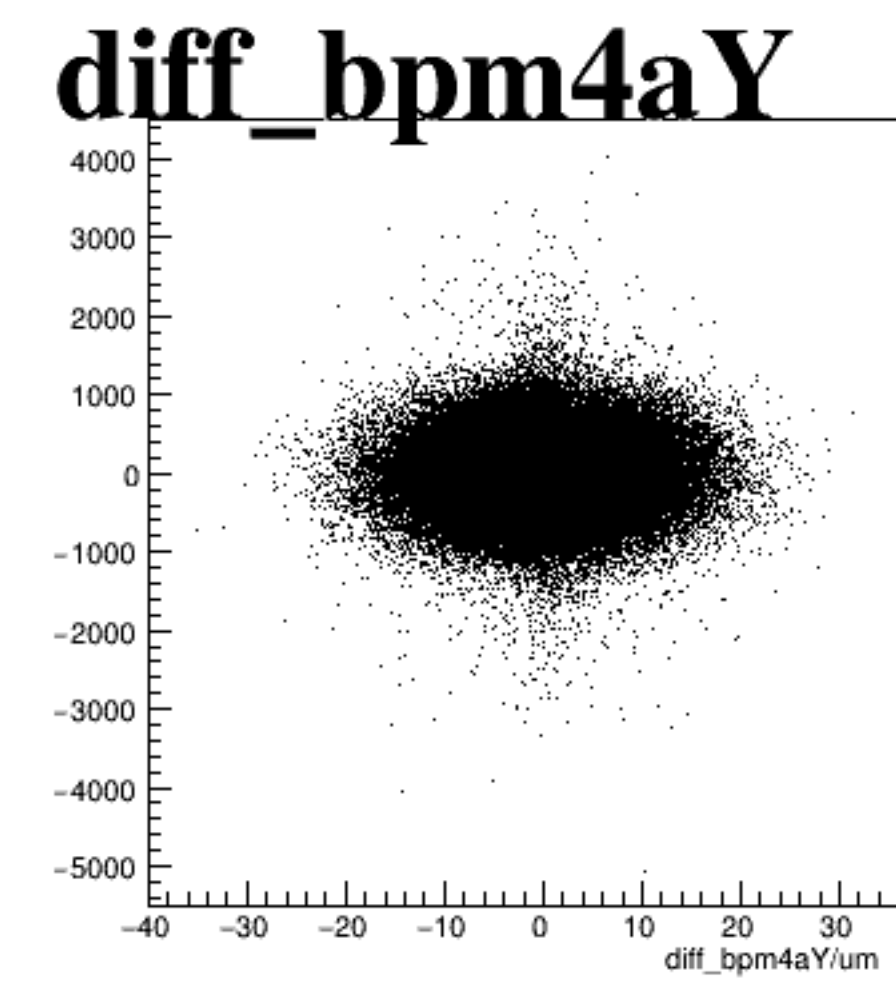
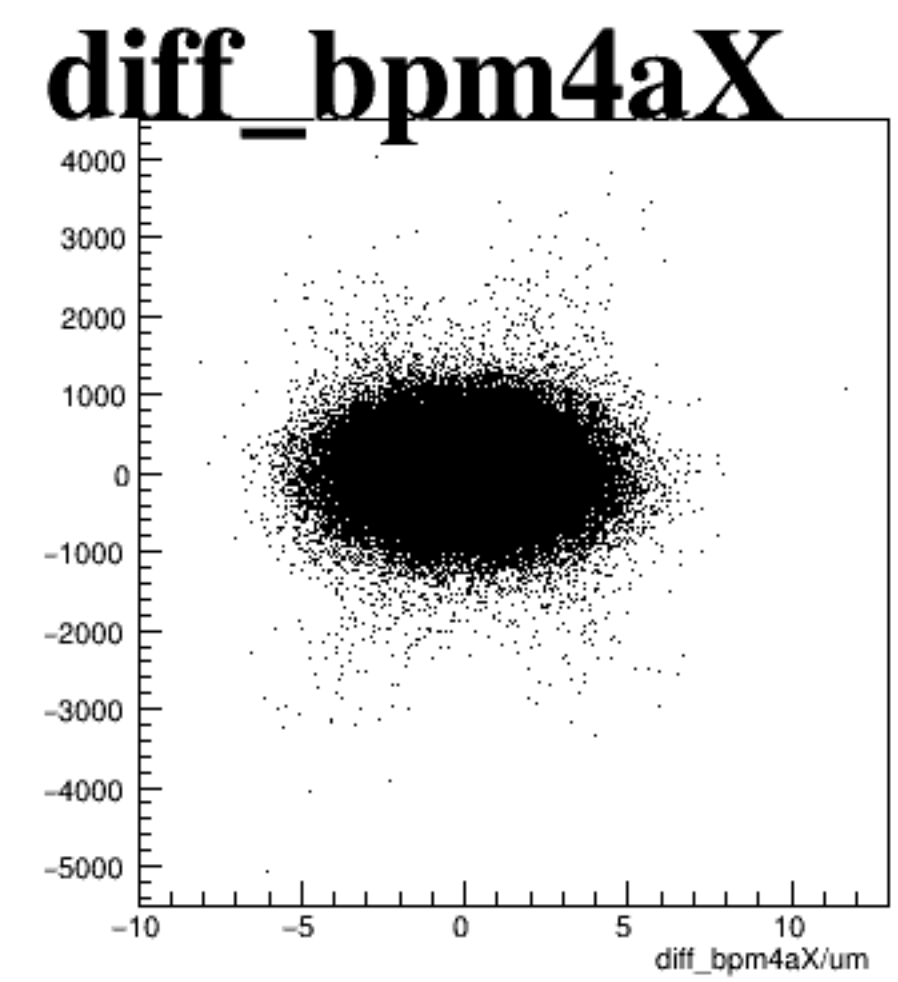
reg_asym_sam1



reg_asym_sam3



reg_asym_sam5



reg_asym_sam7

