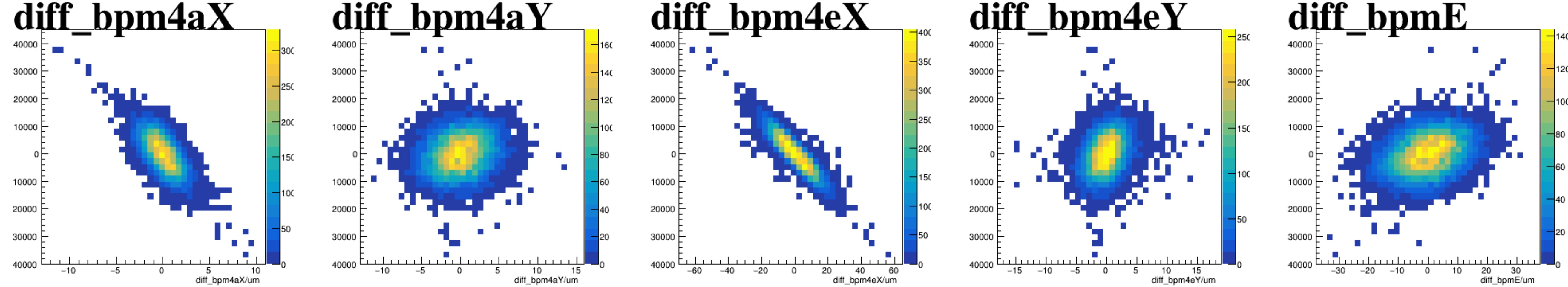
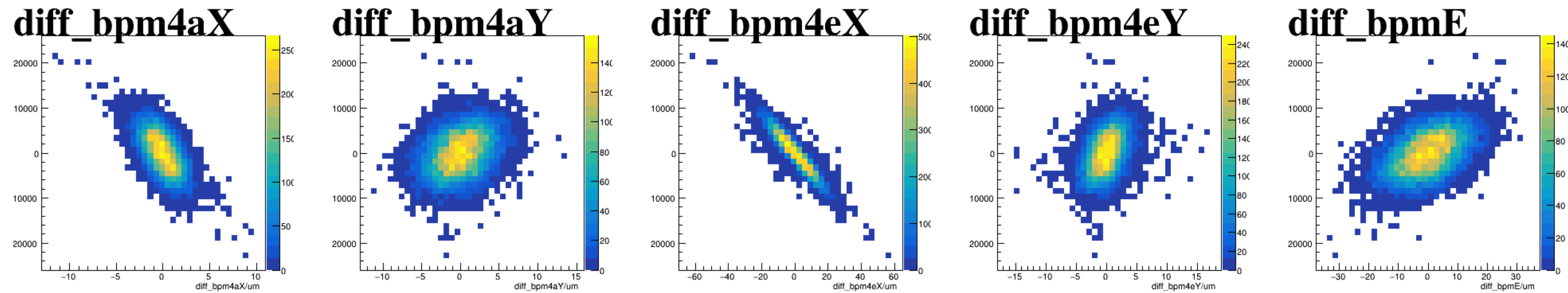


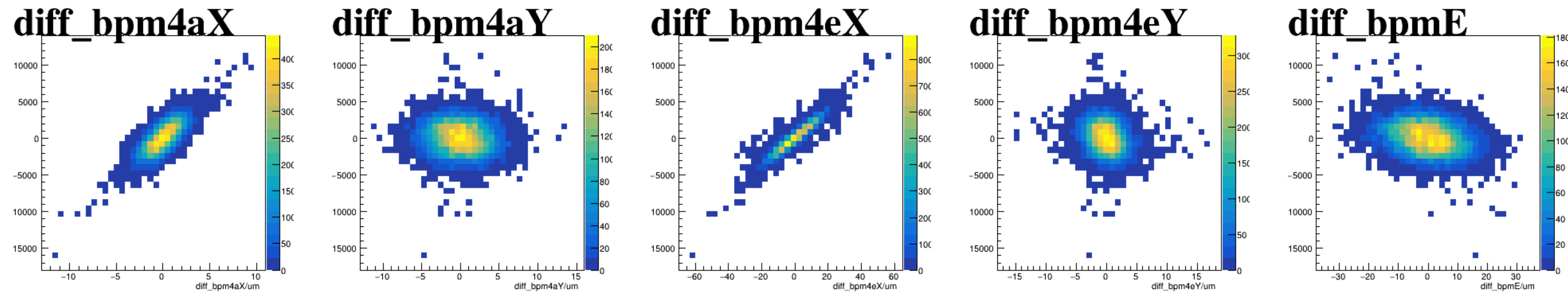
asym_sam2



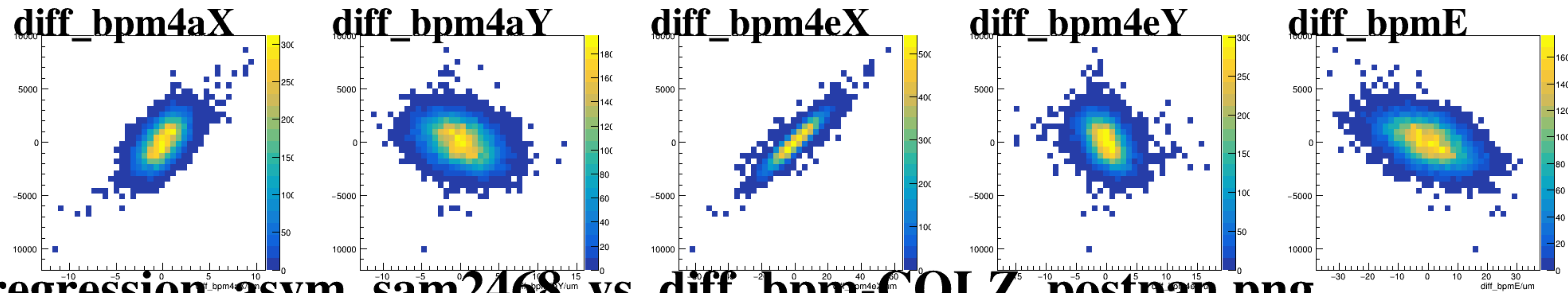
asym_sam4



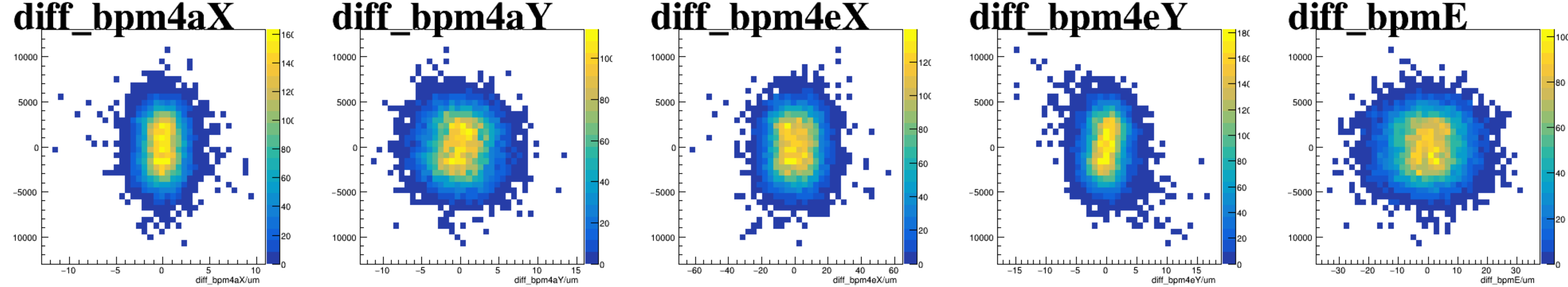
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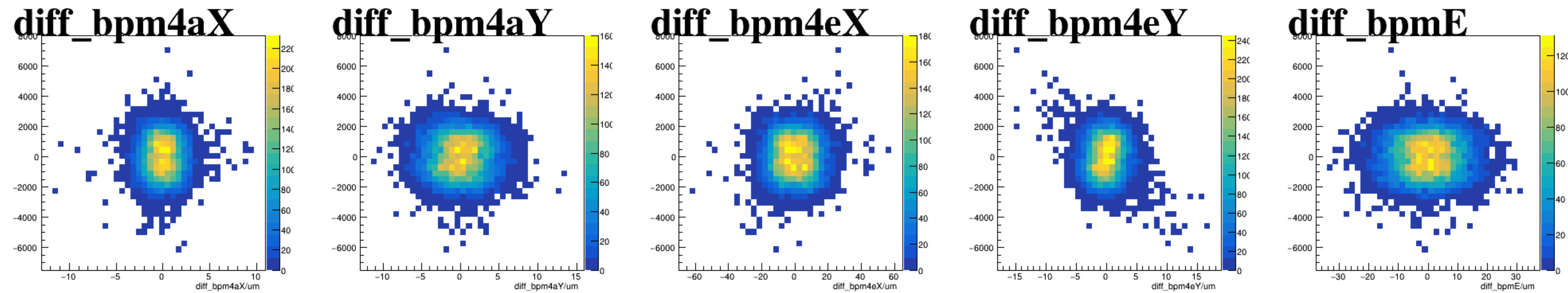
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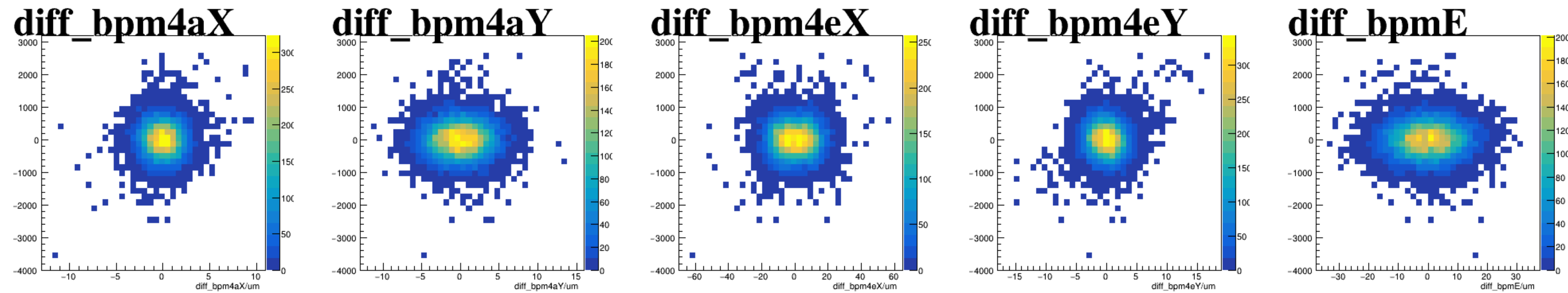
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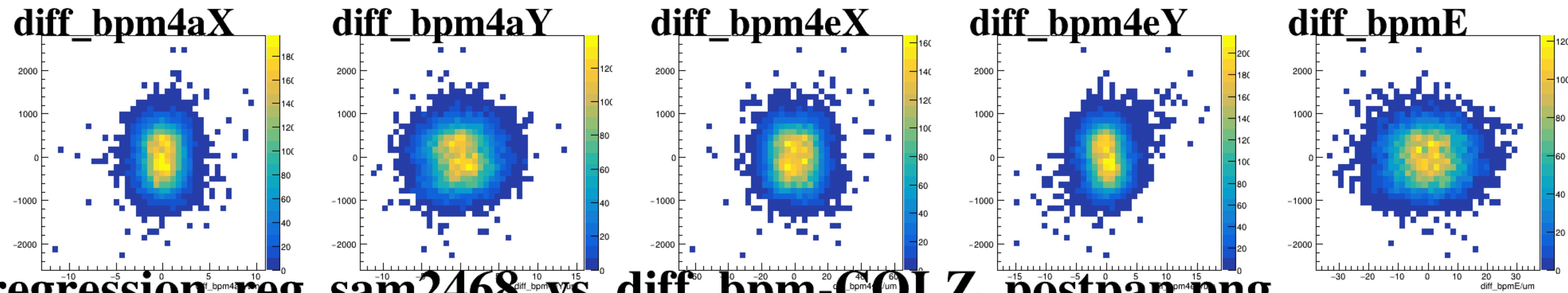
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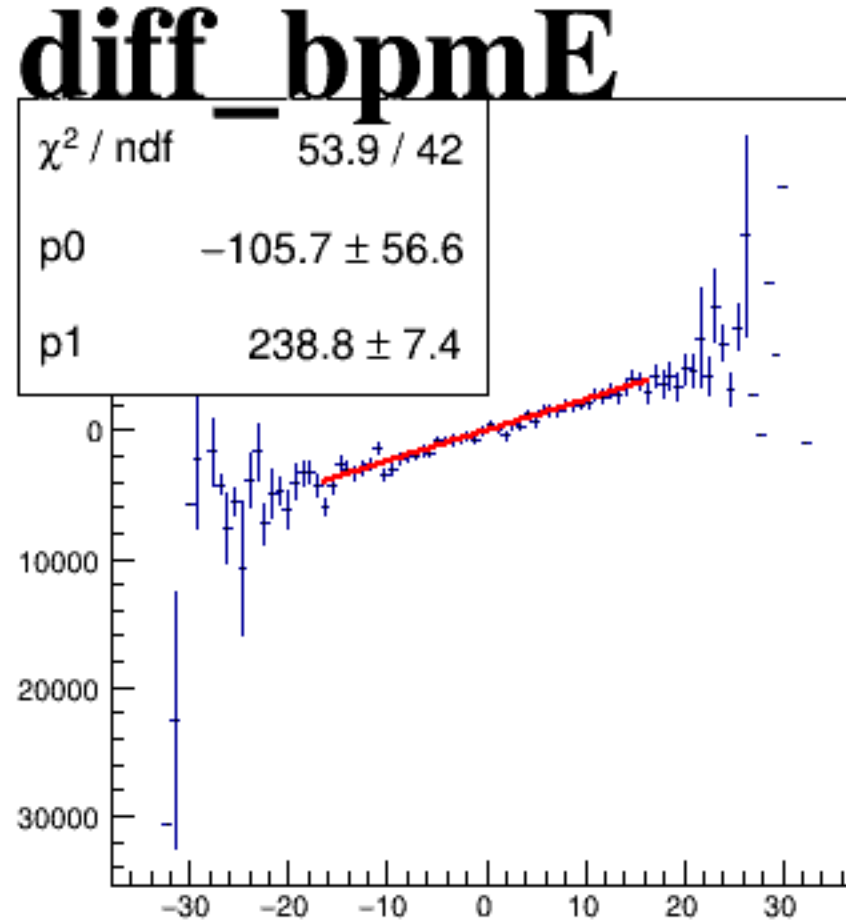
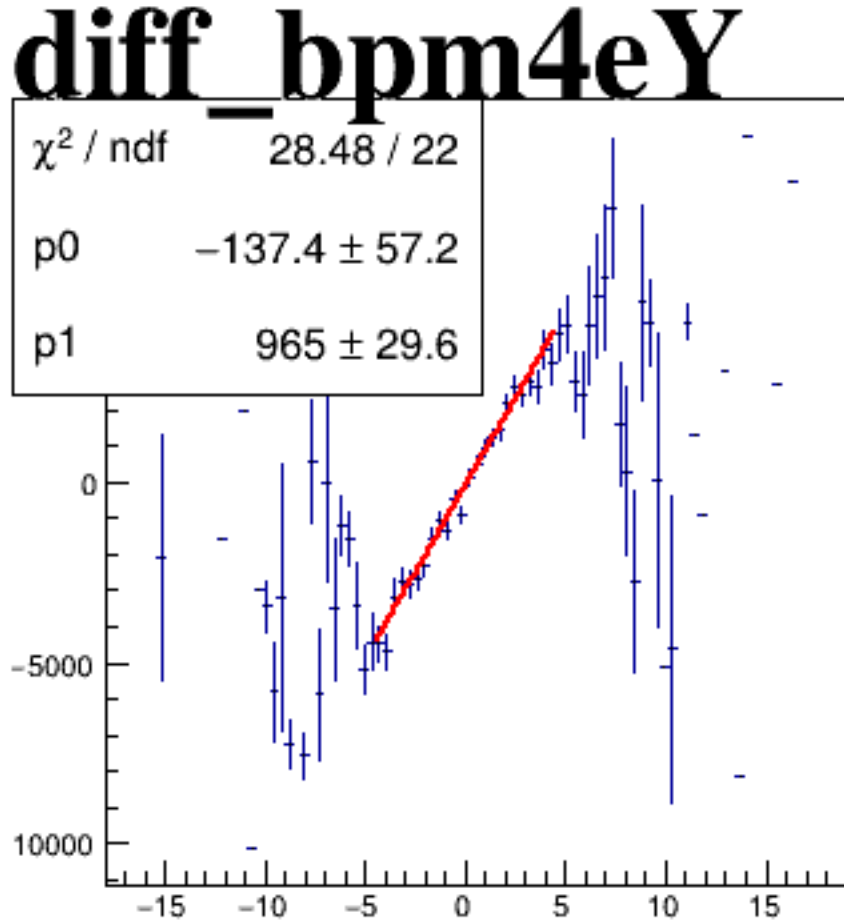
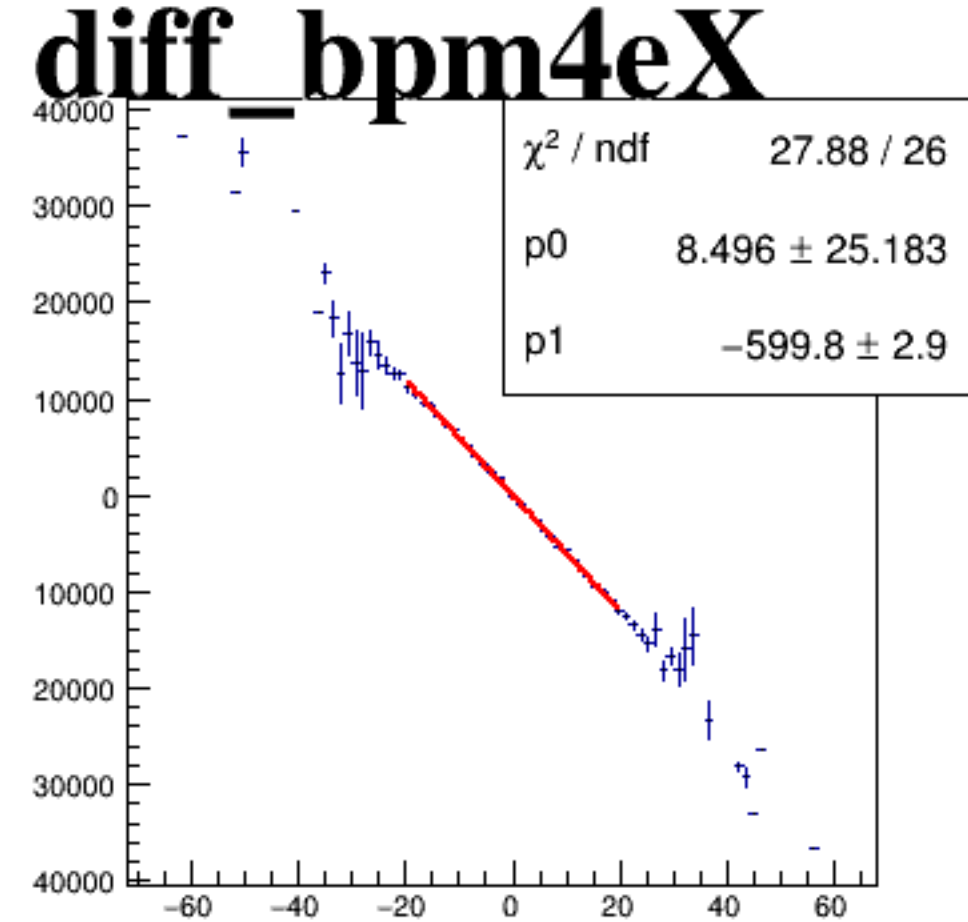
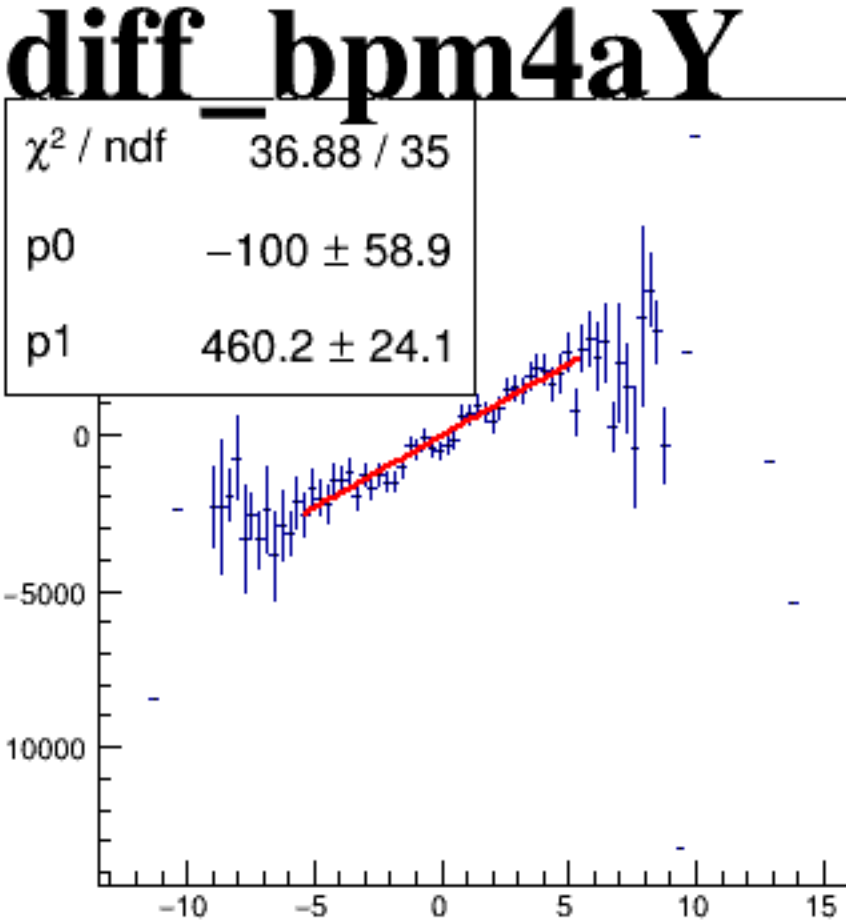
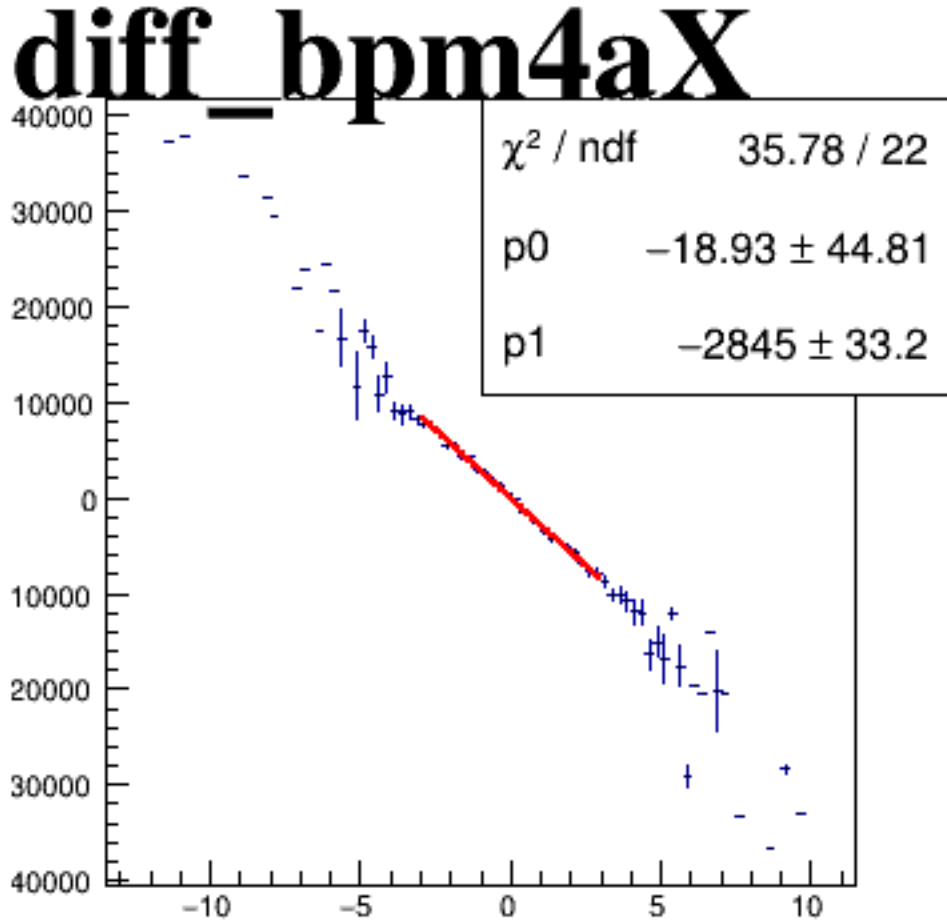
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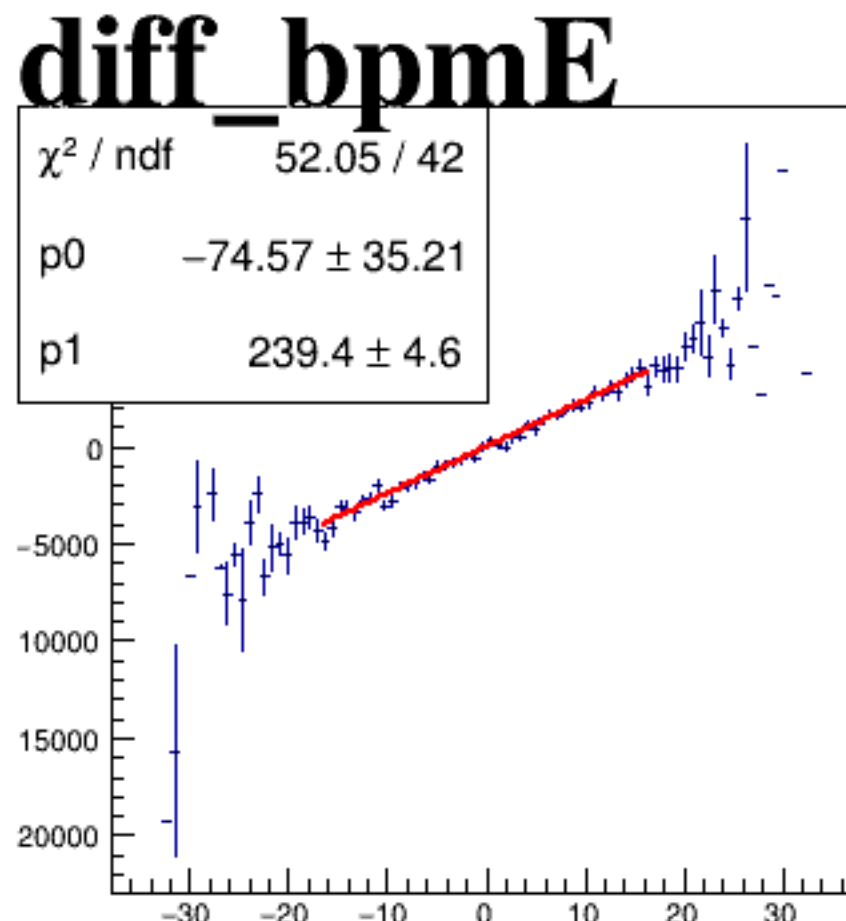
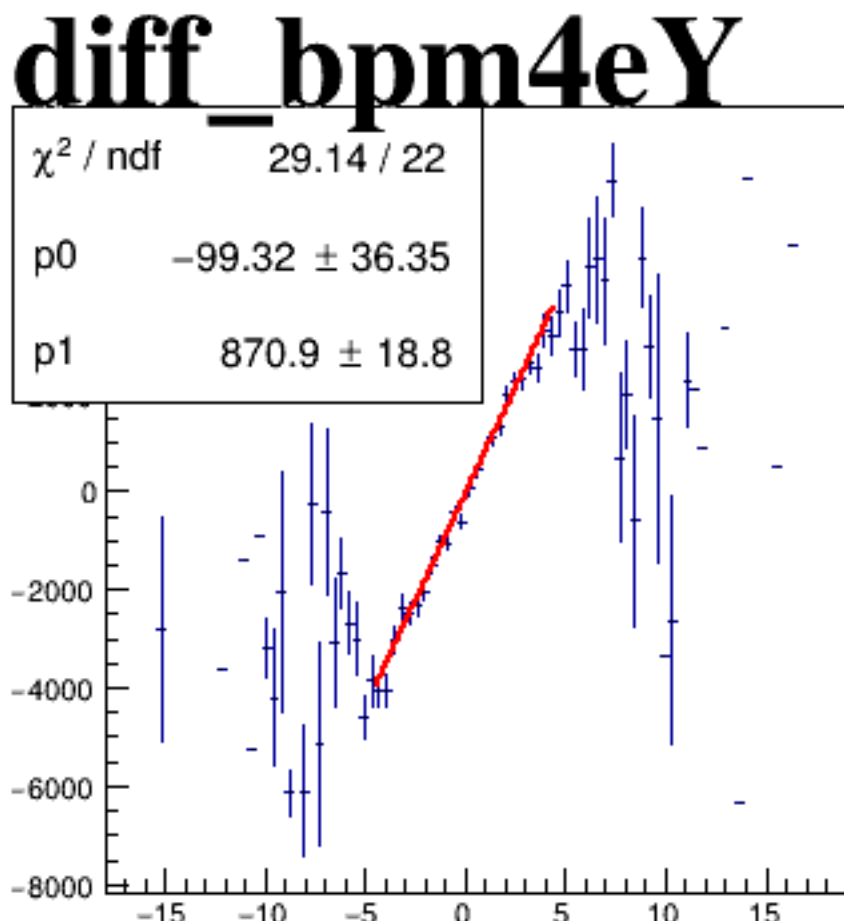
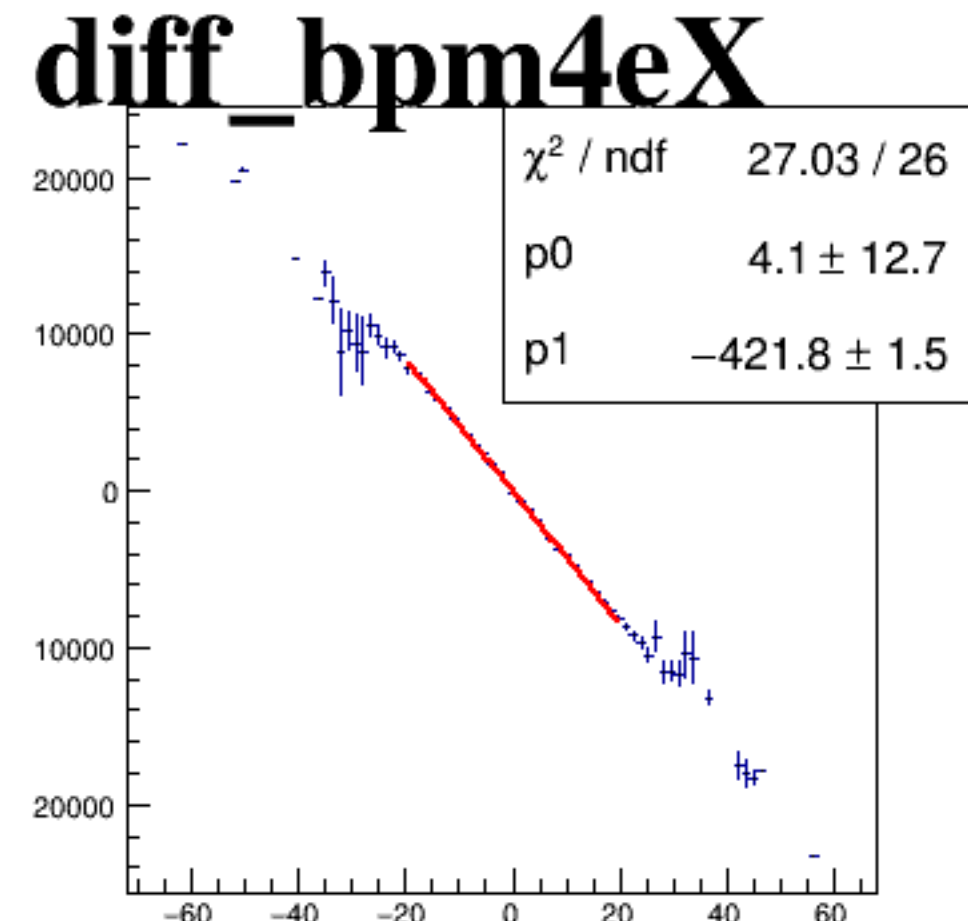
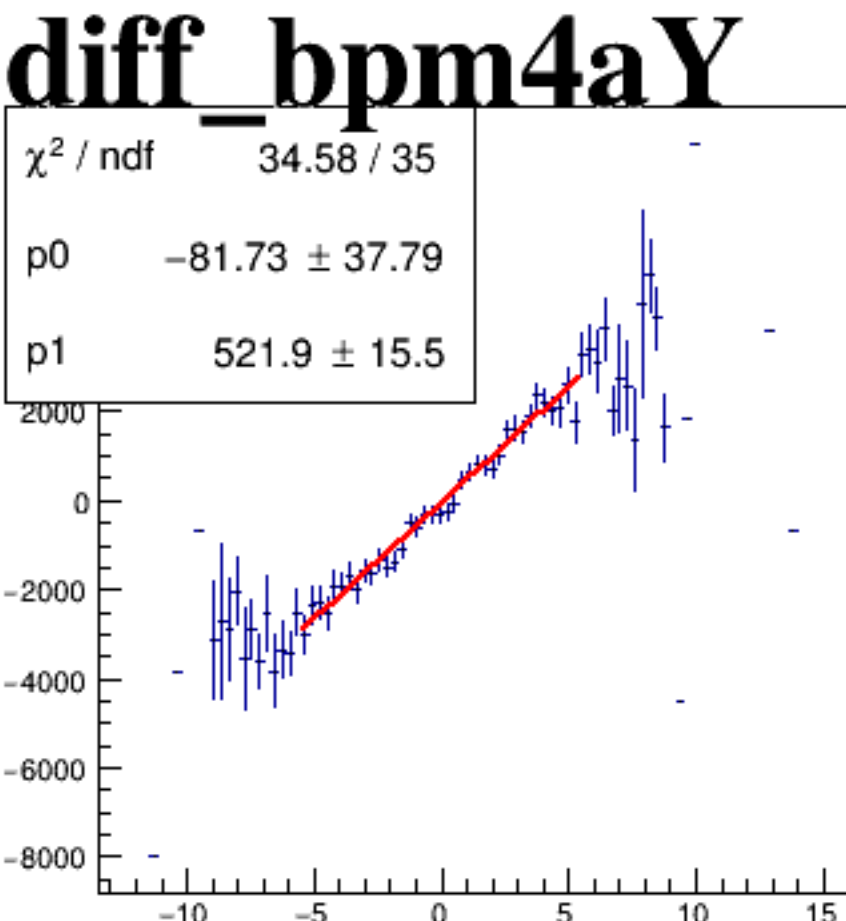
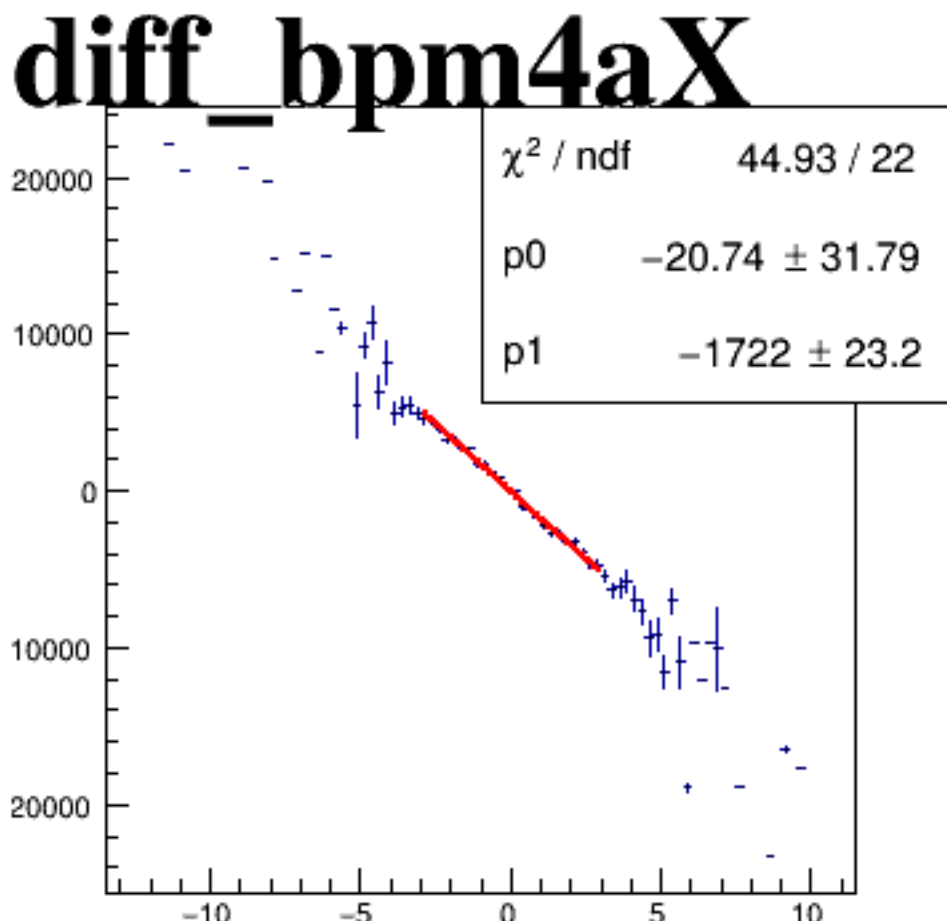
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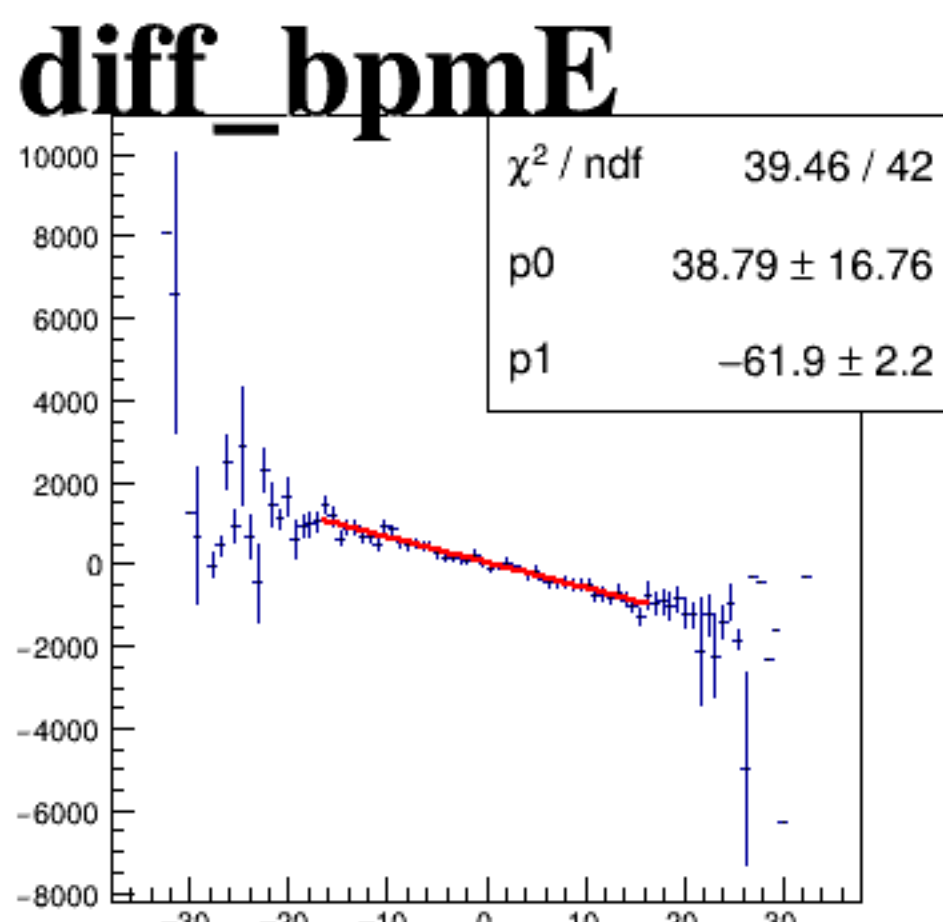
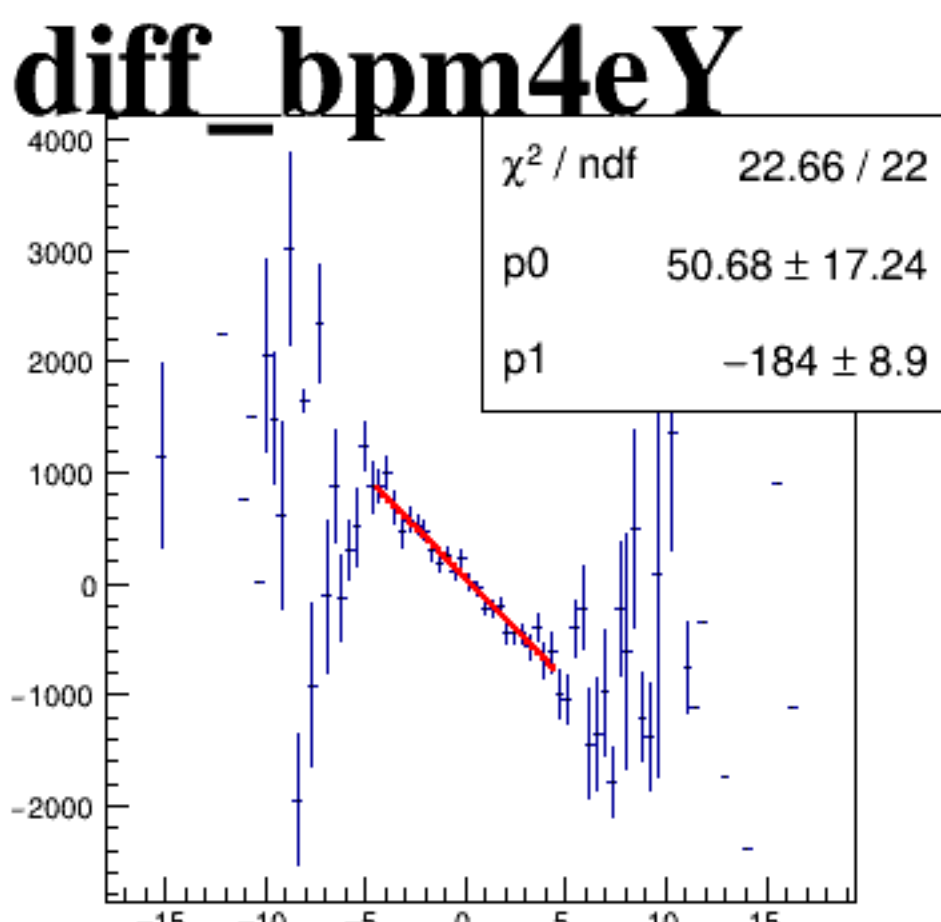
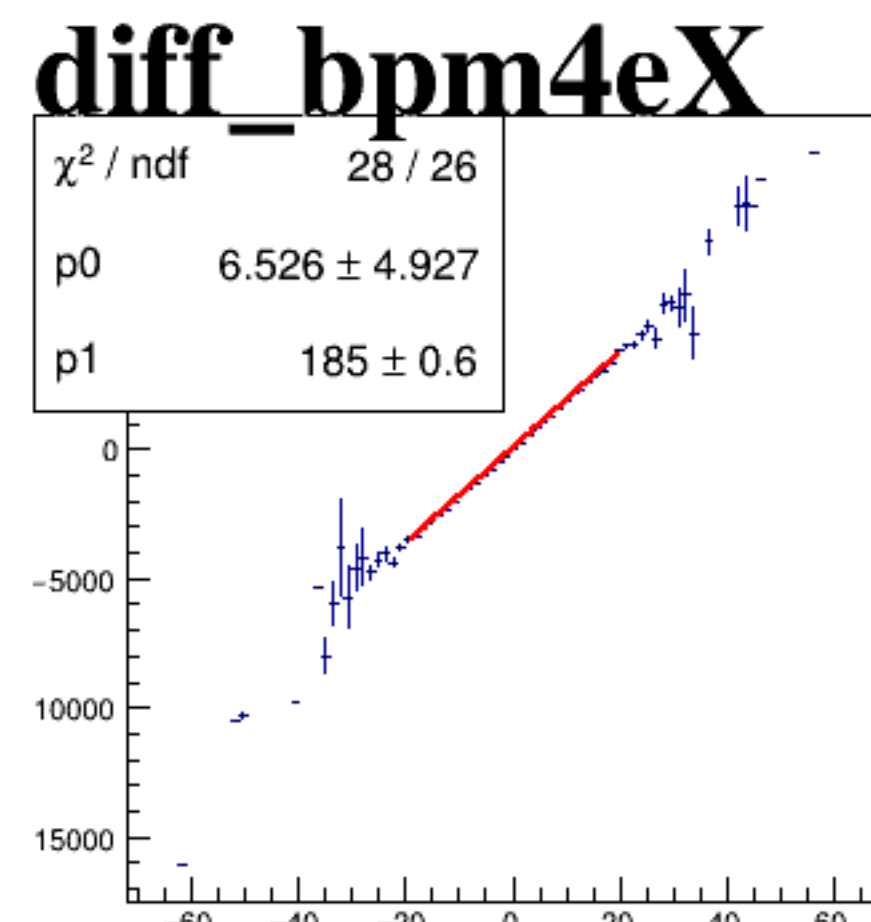
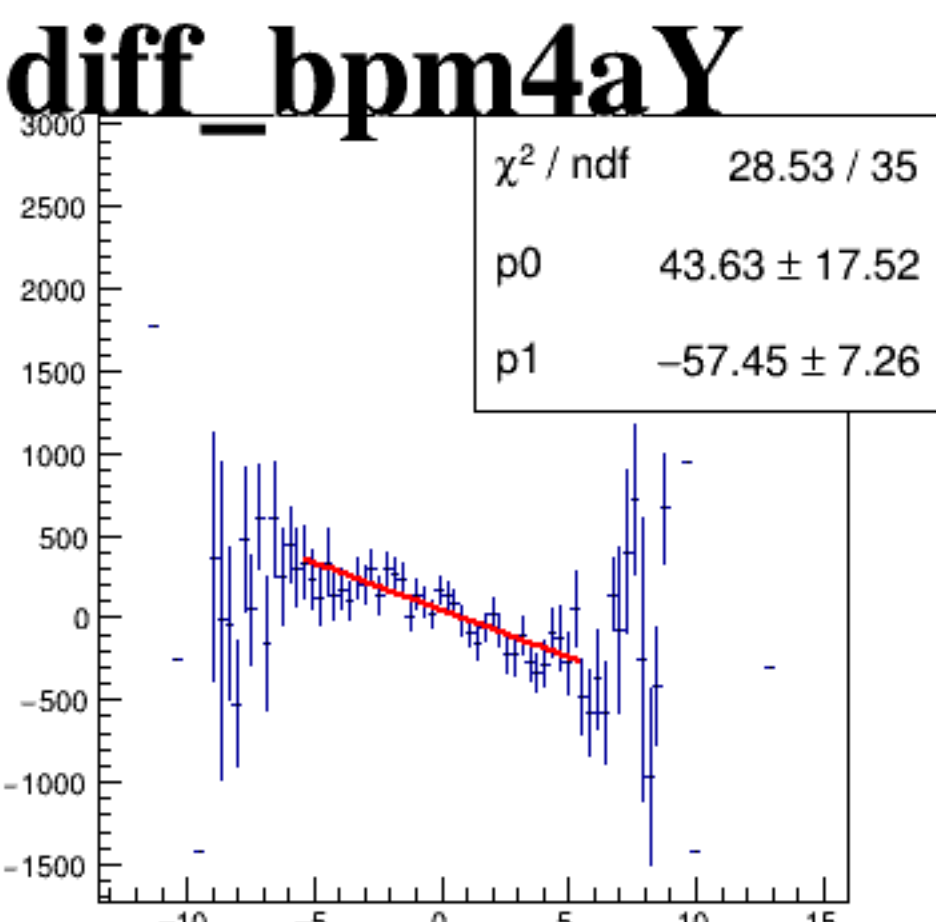
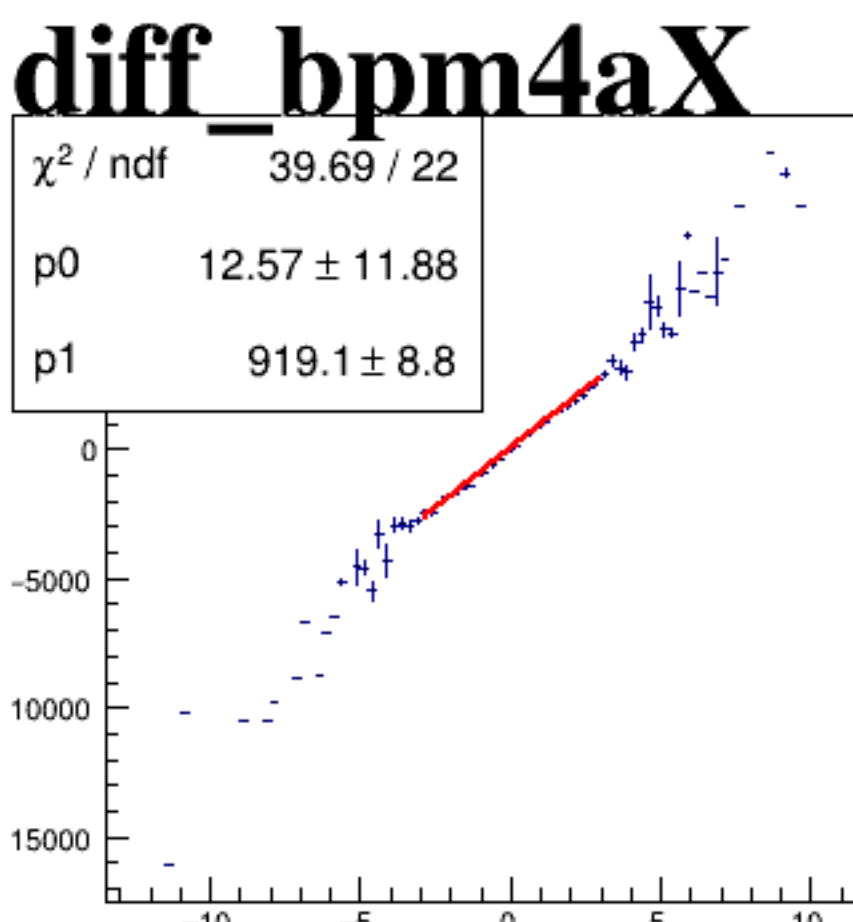
asym_sam2



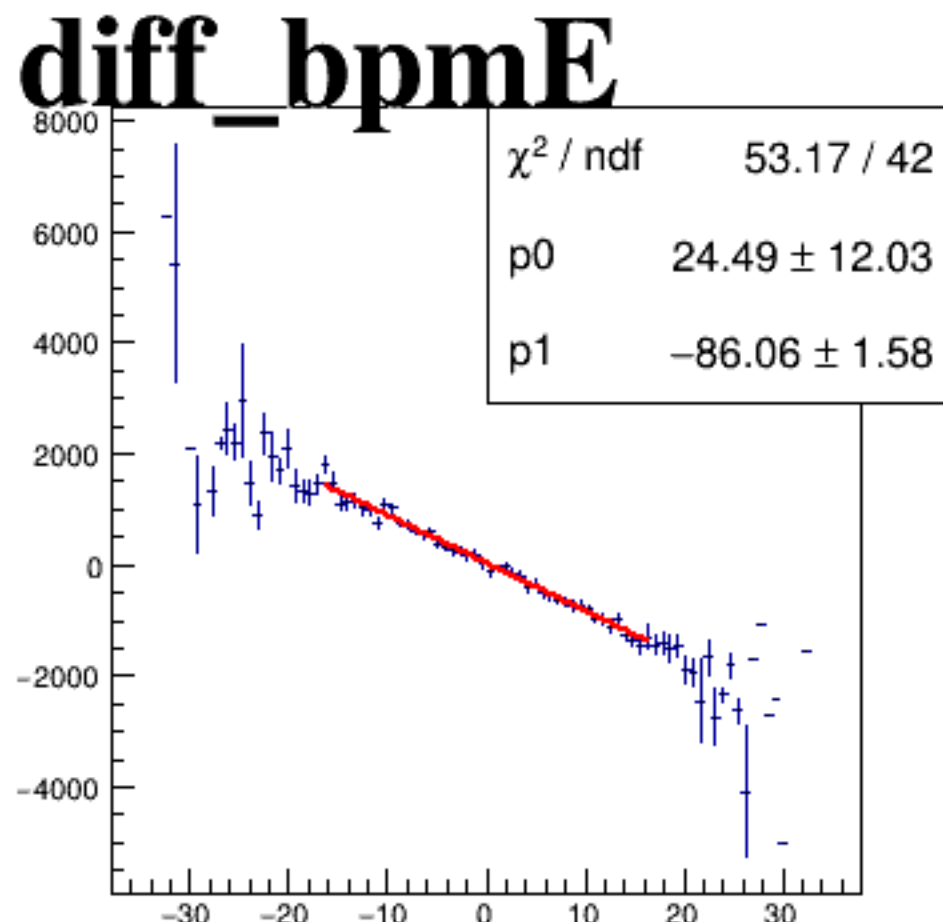
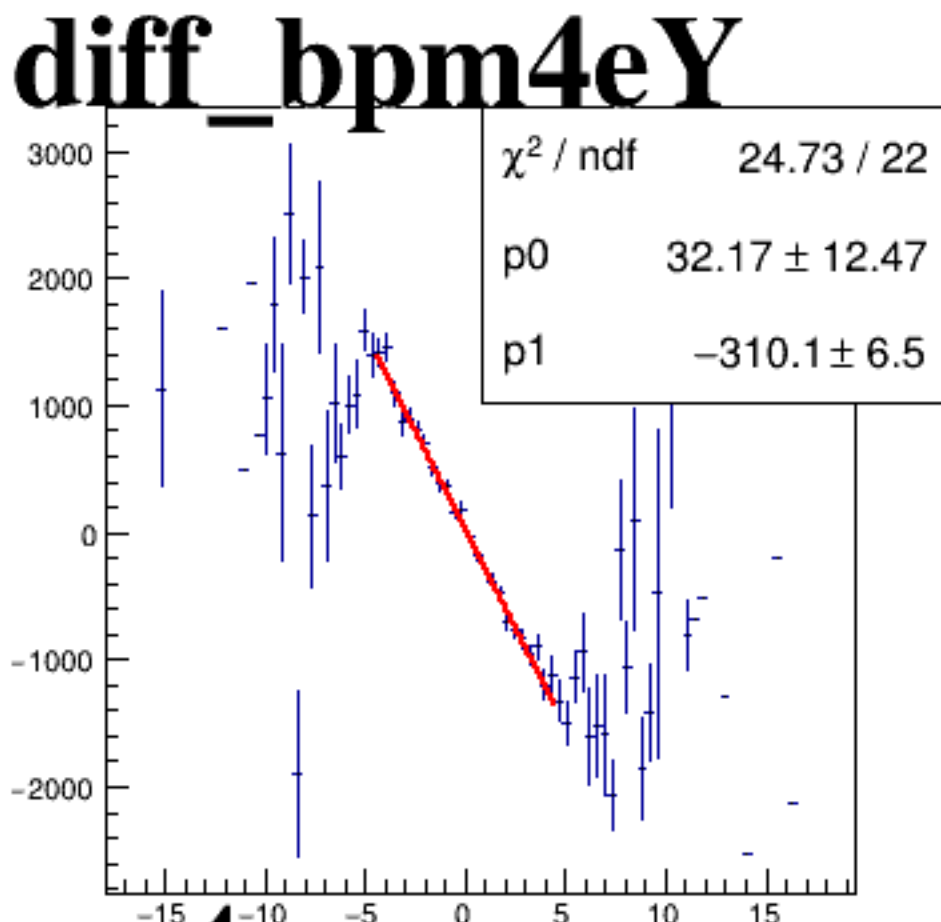
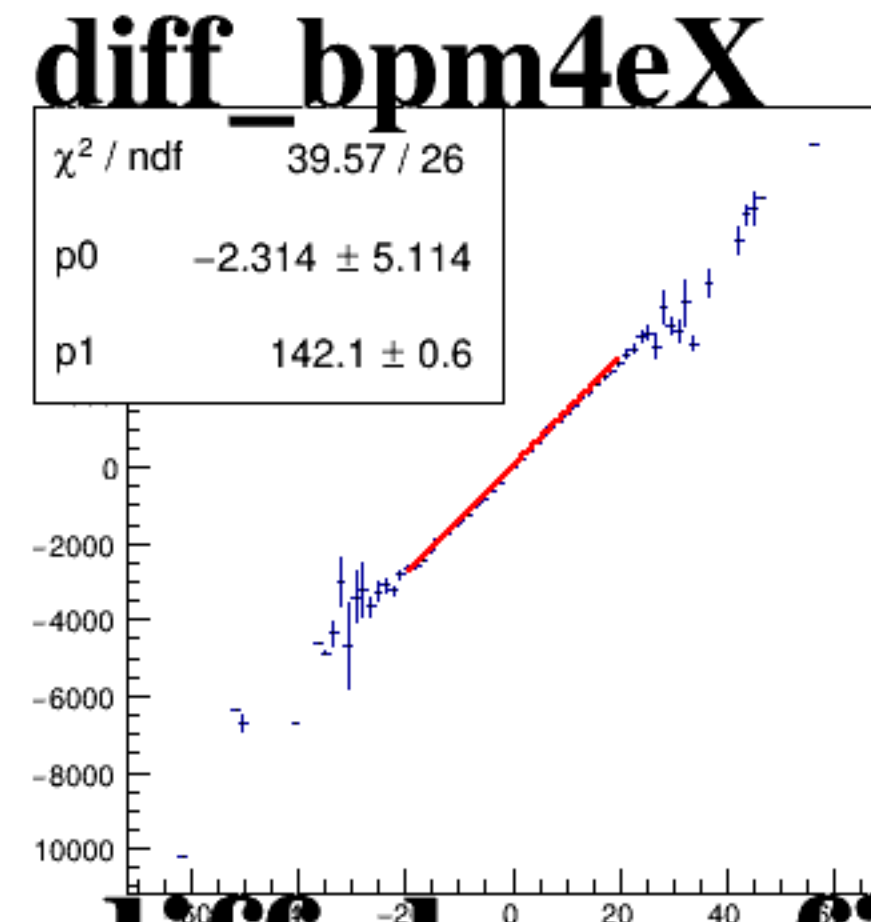
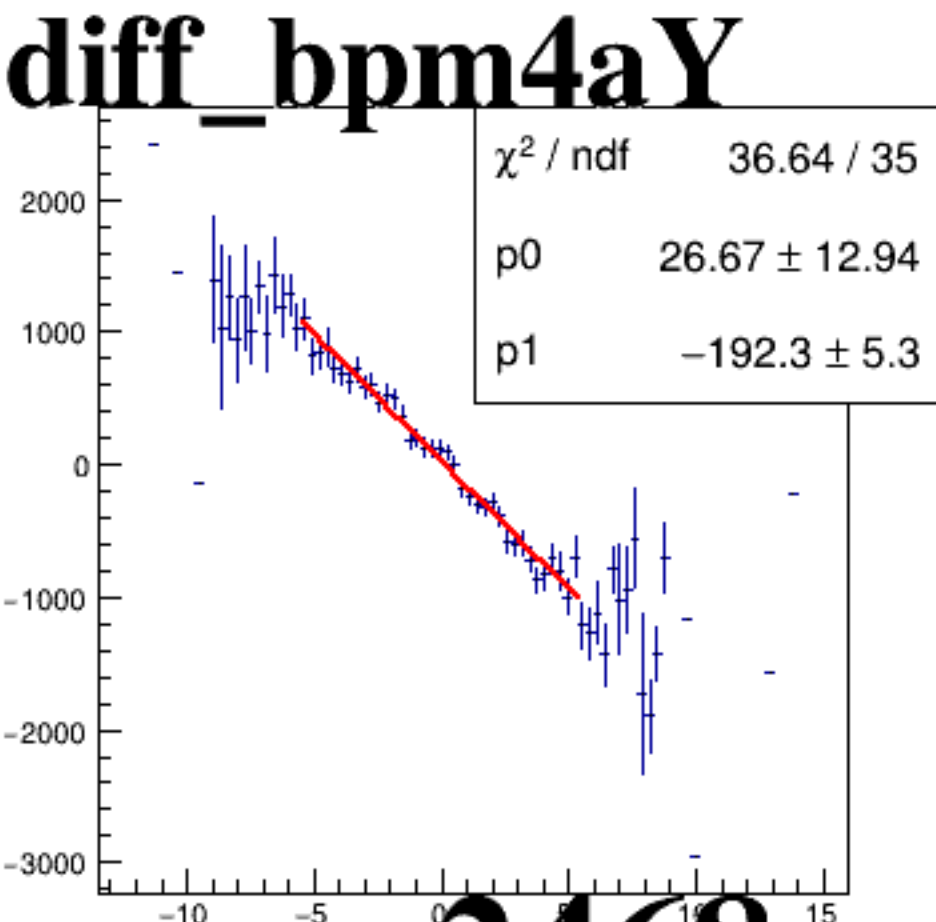
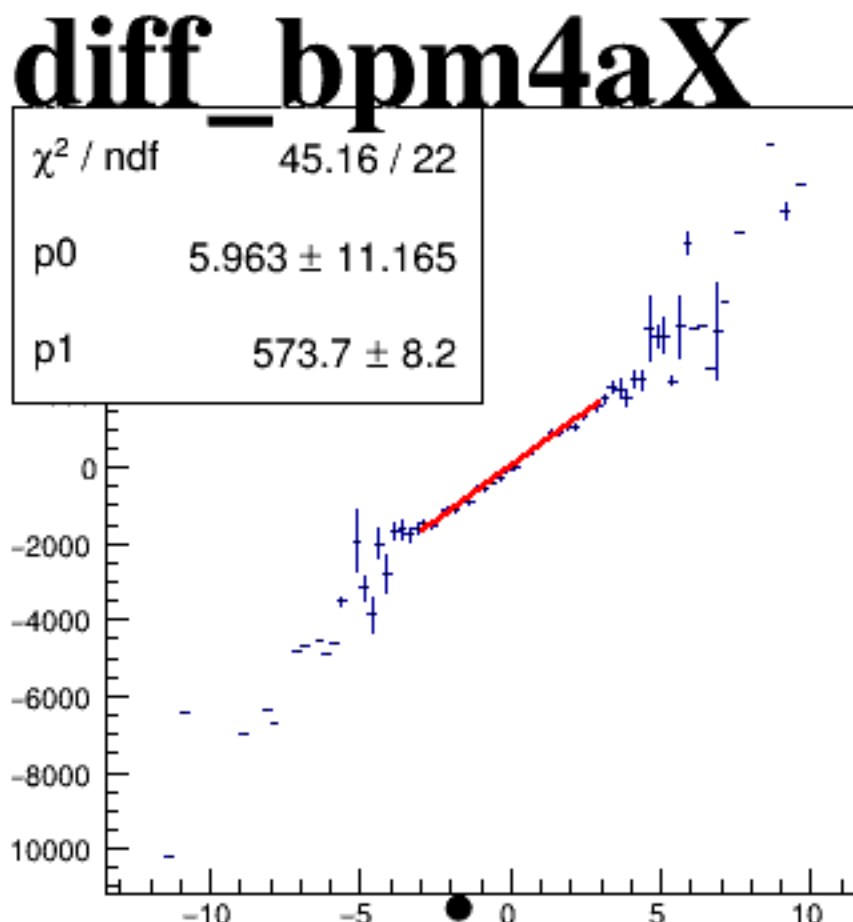
asym_sam4



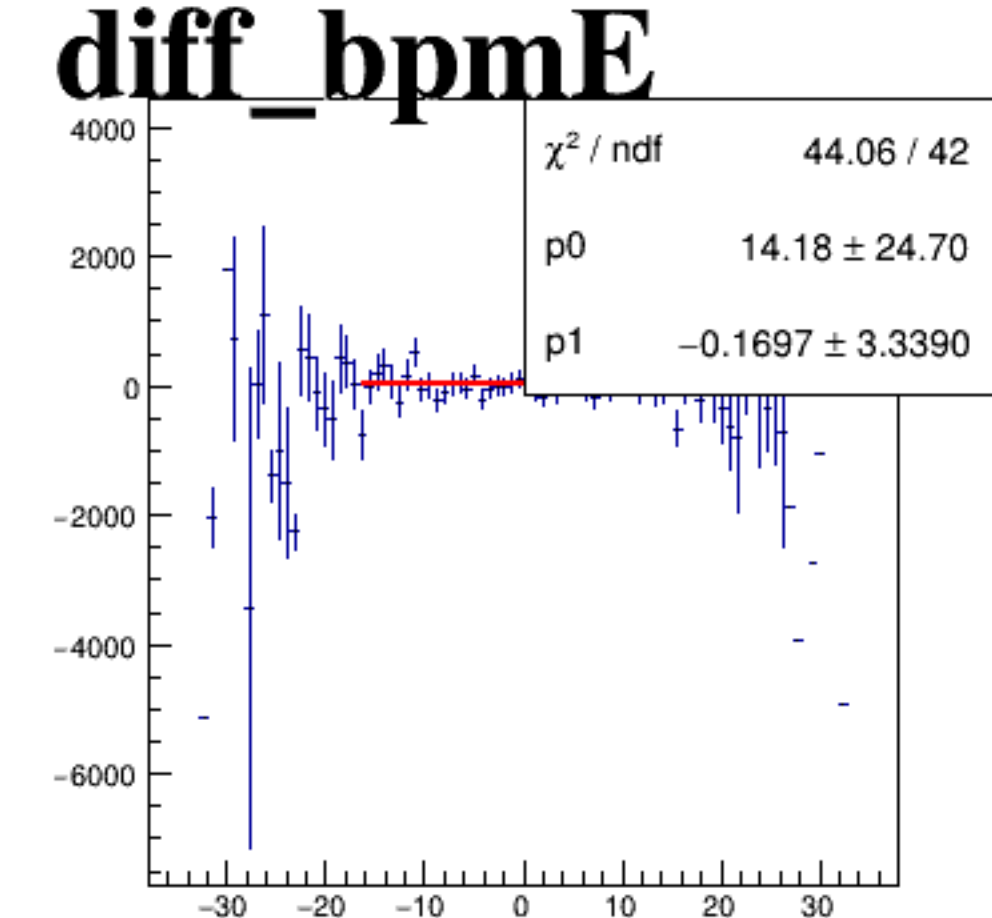
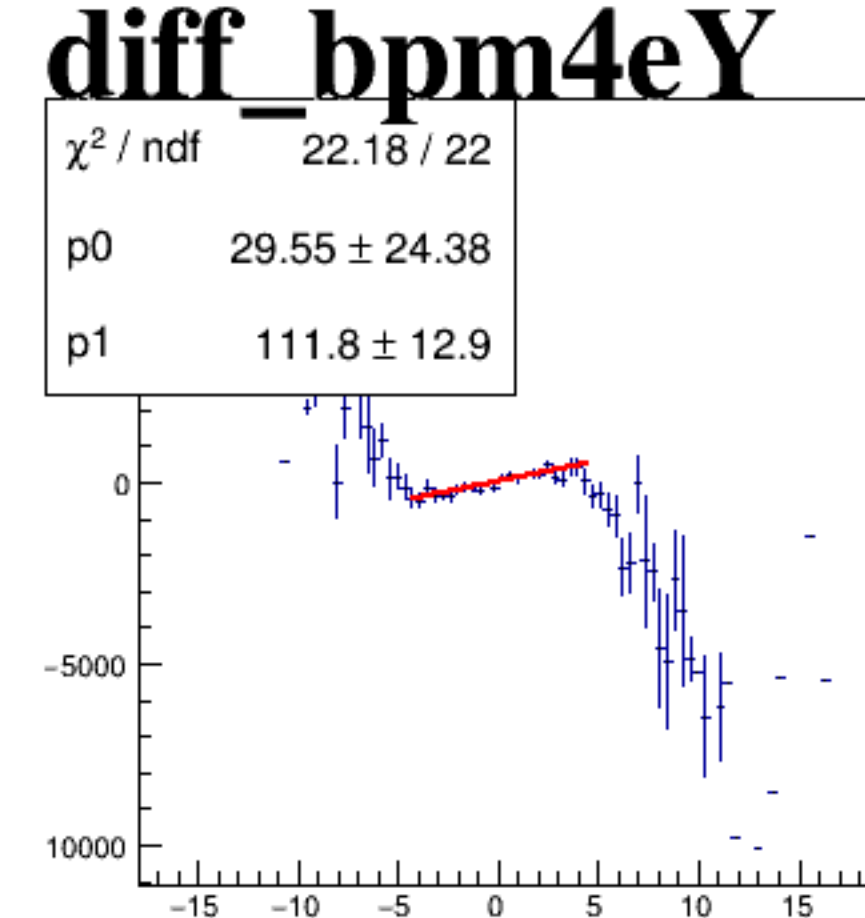
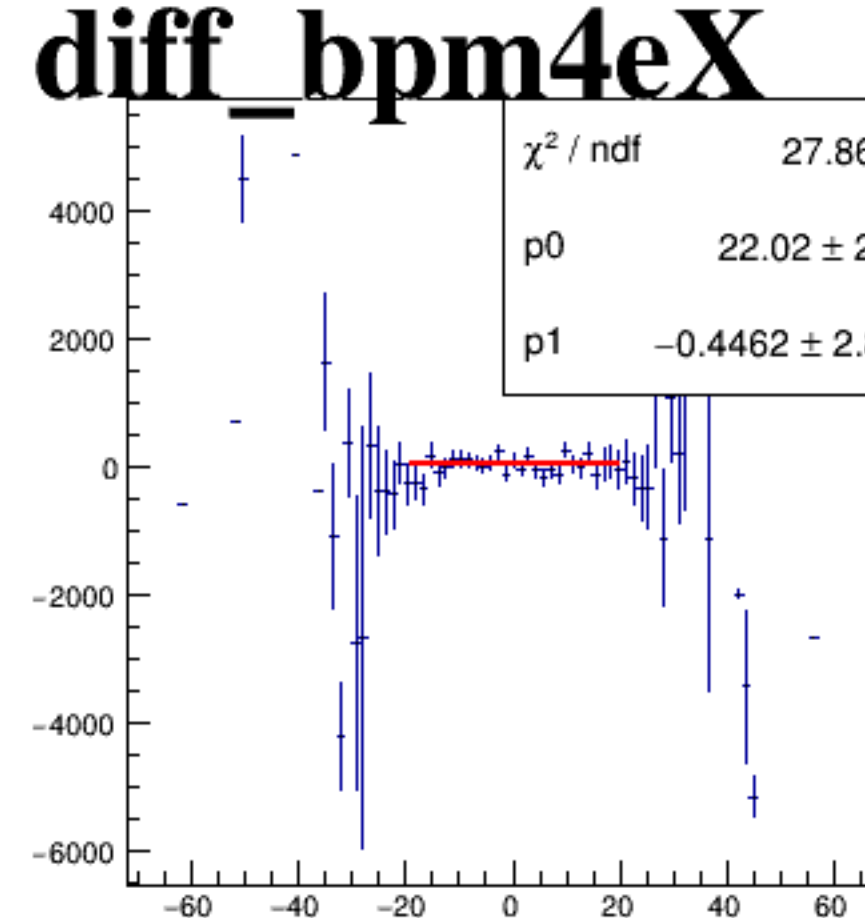
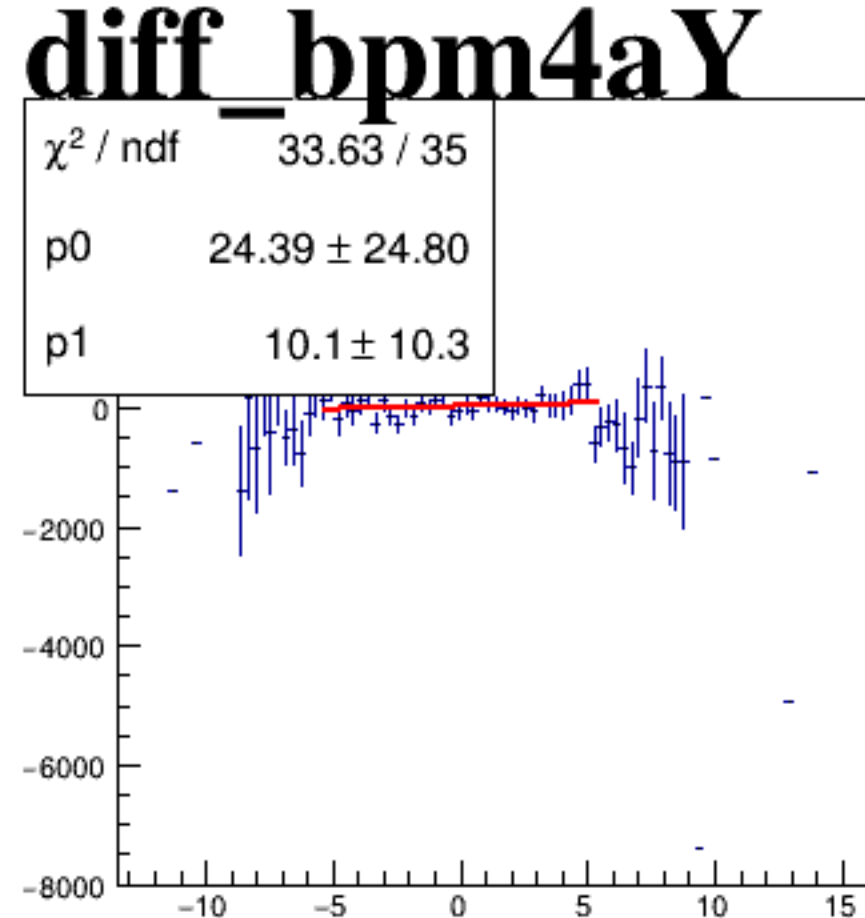
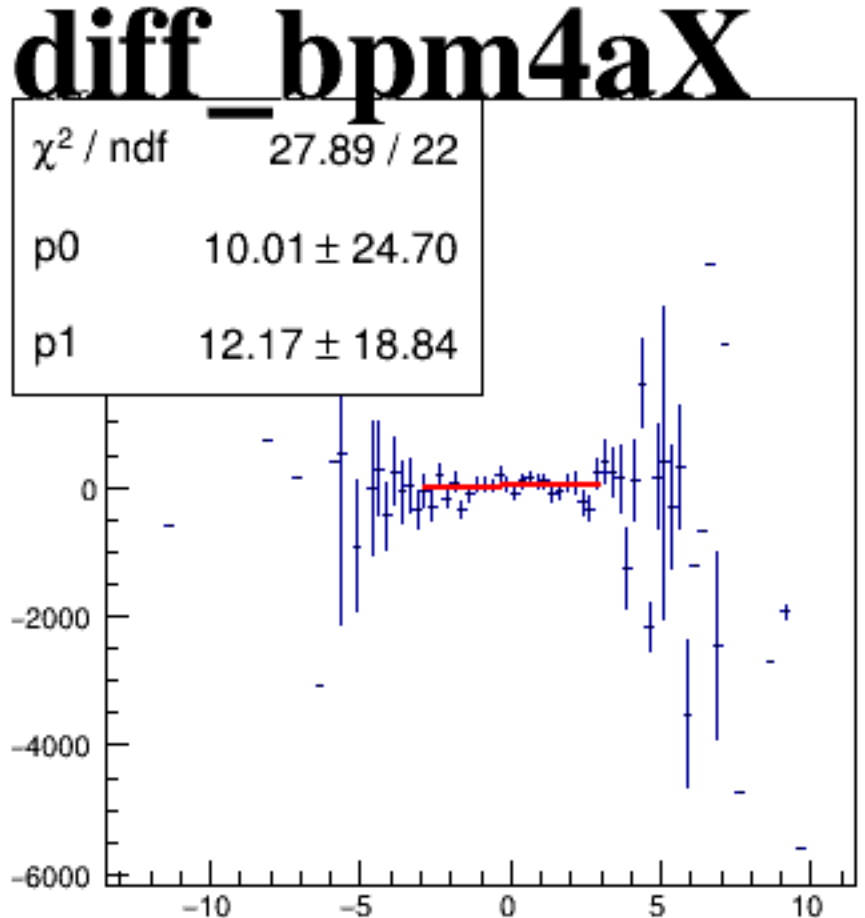
asym_sam6



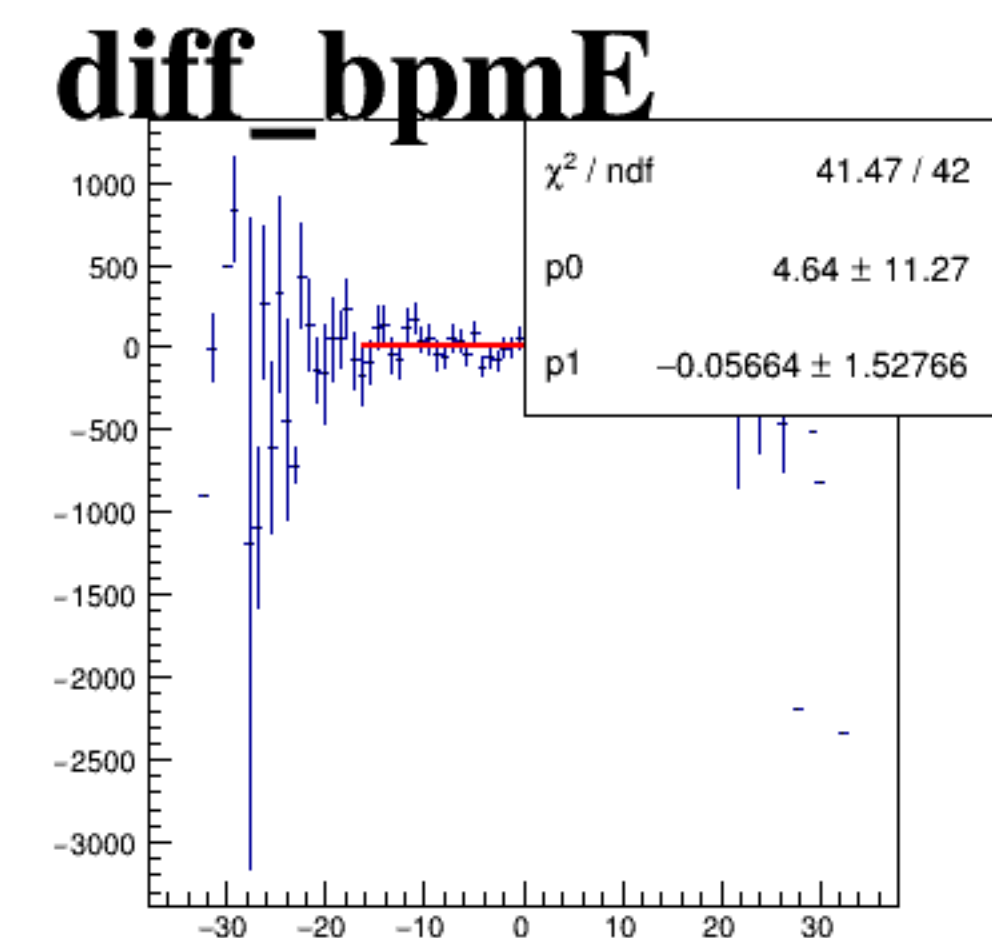
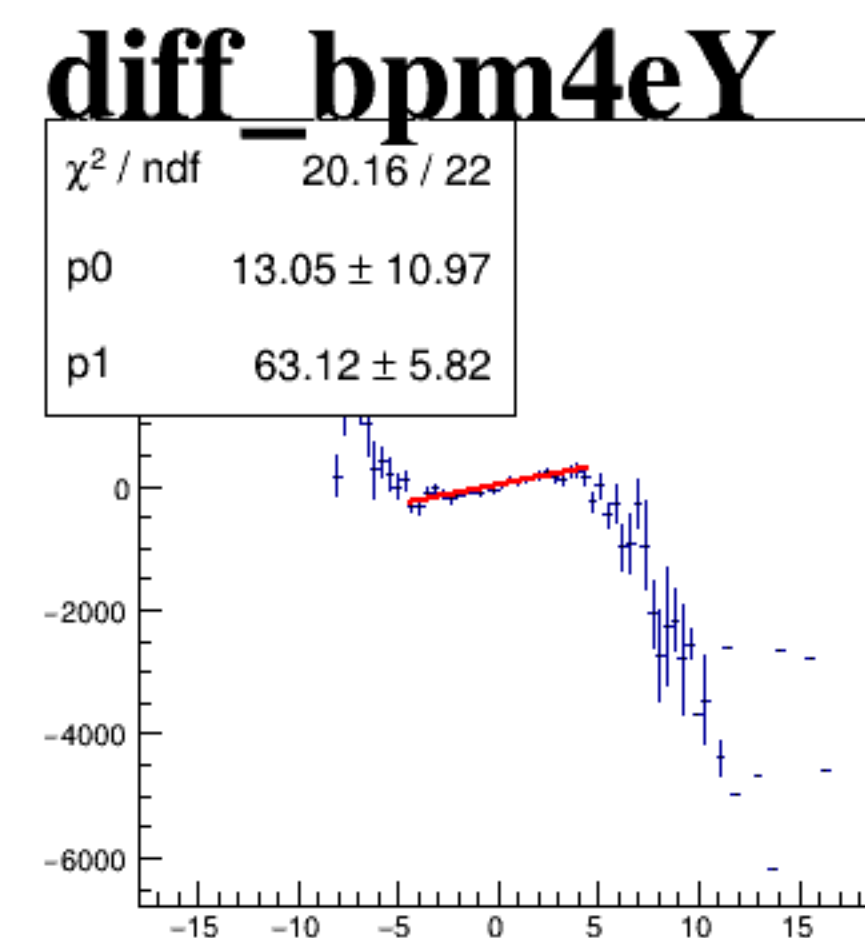
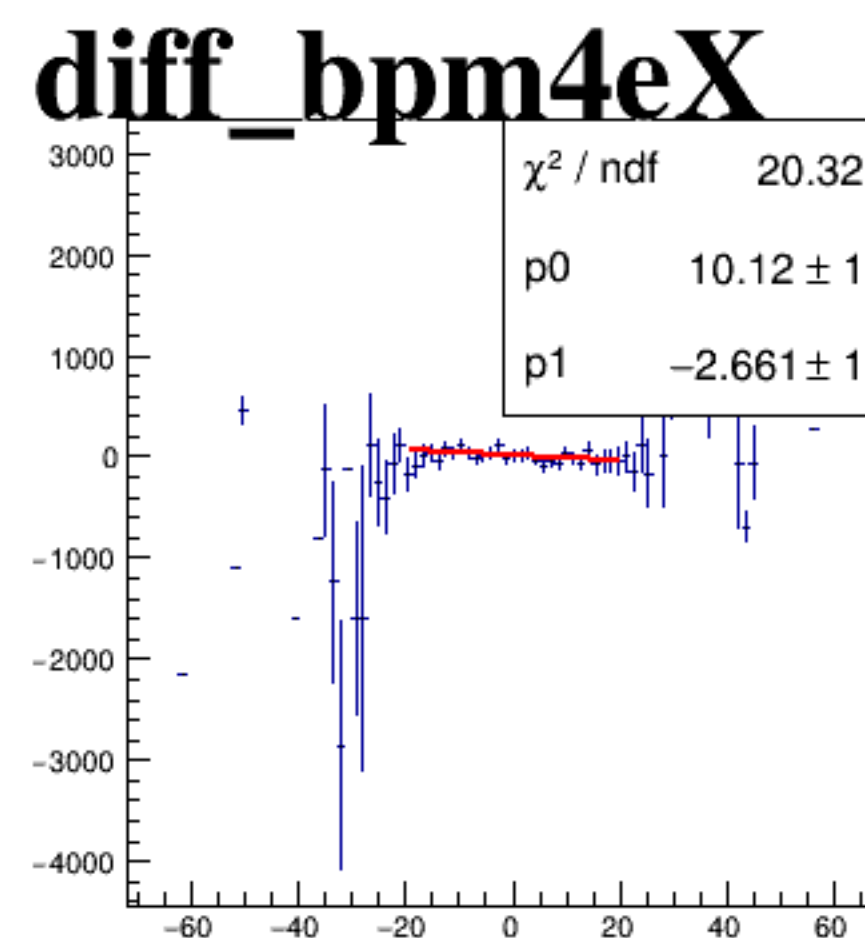
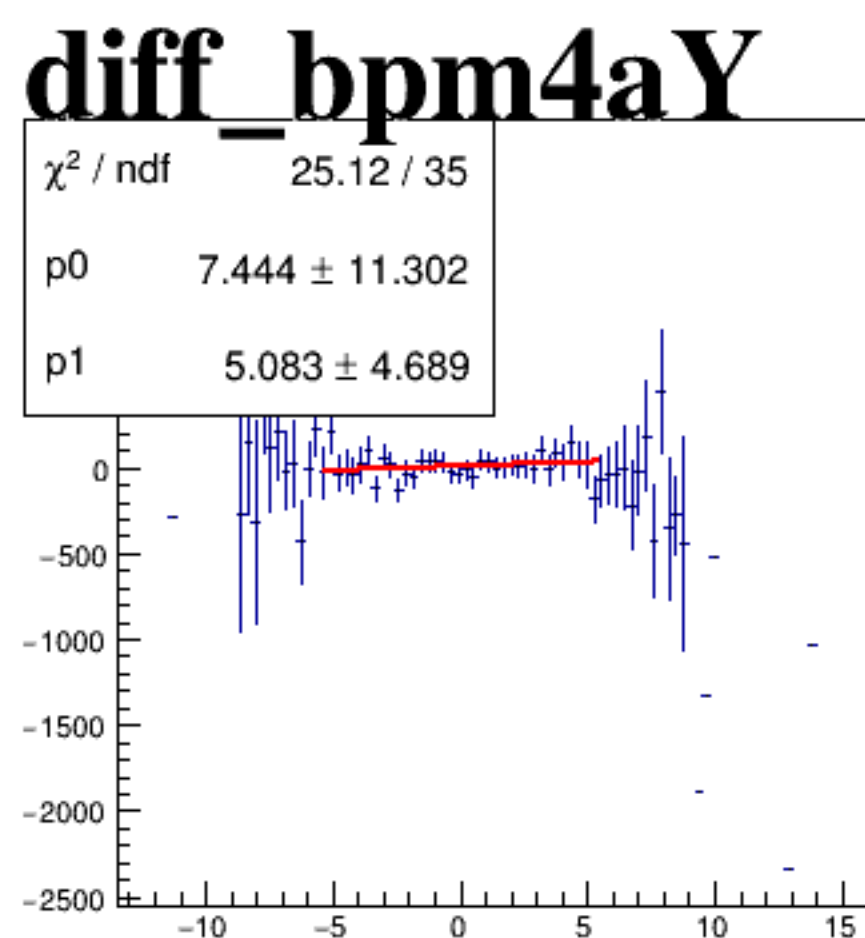
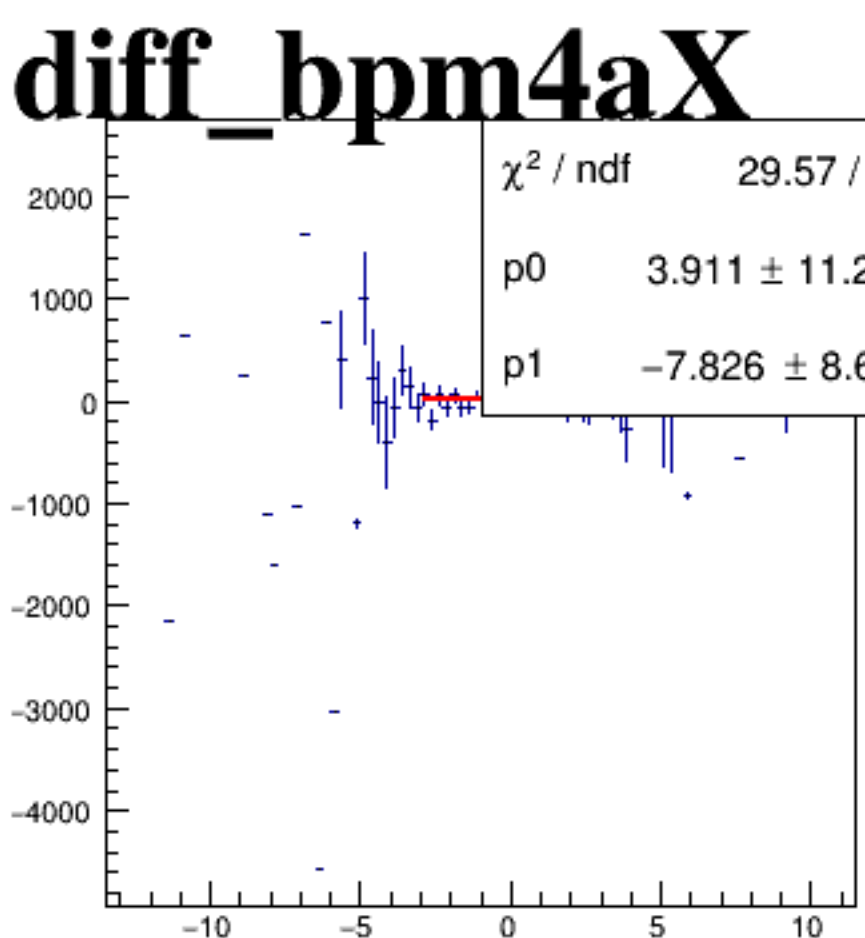
asym_sam8



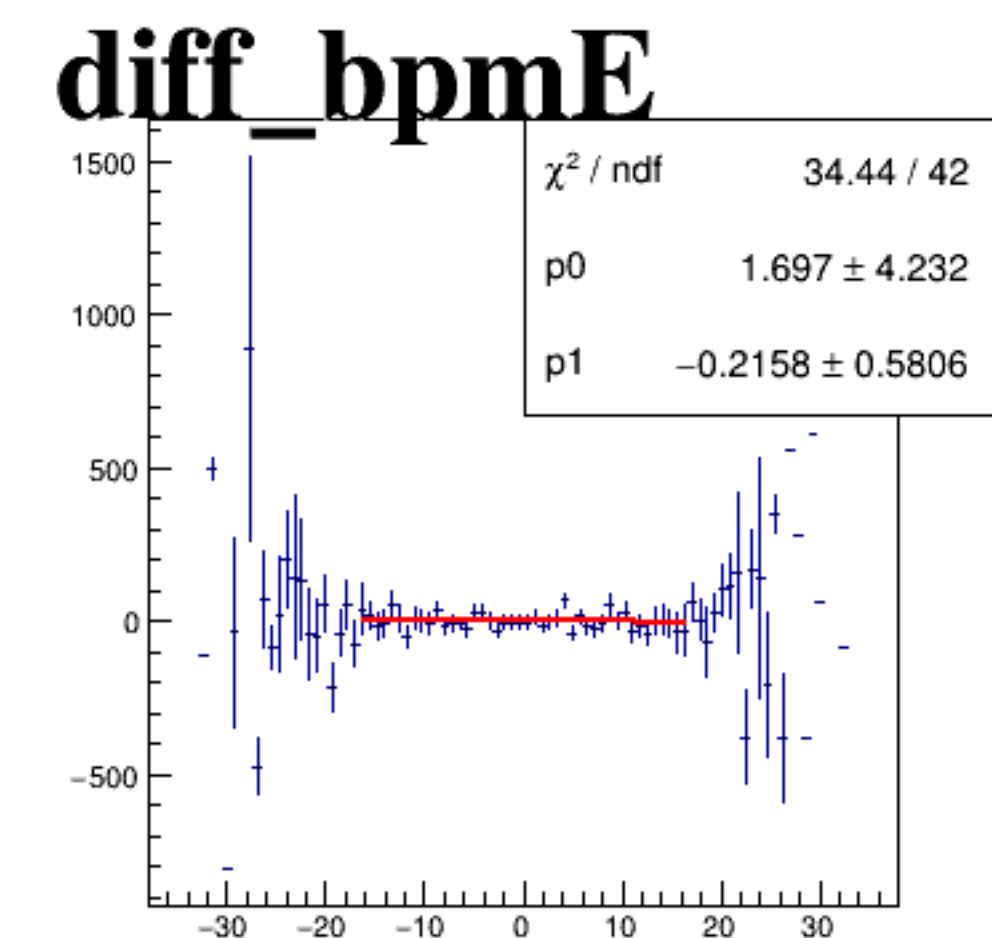
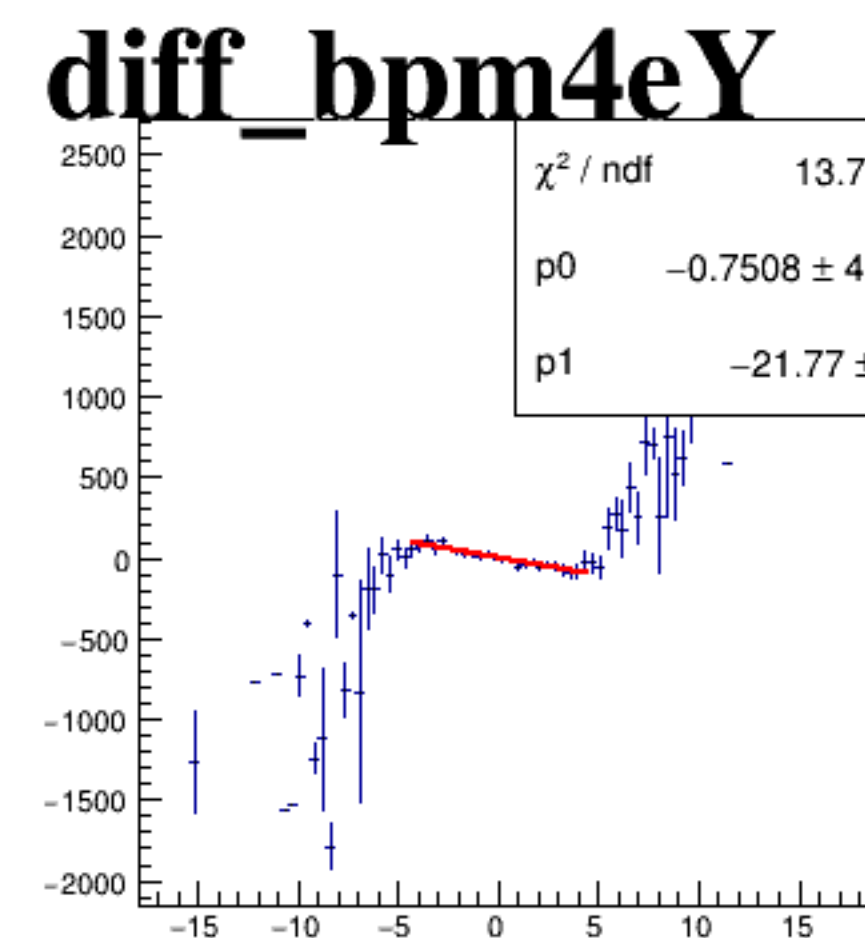
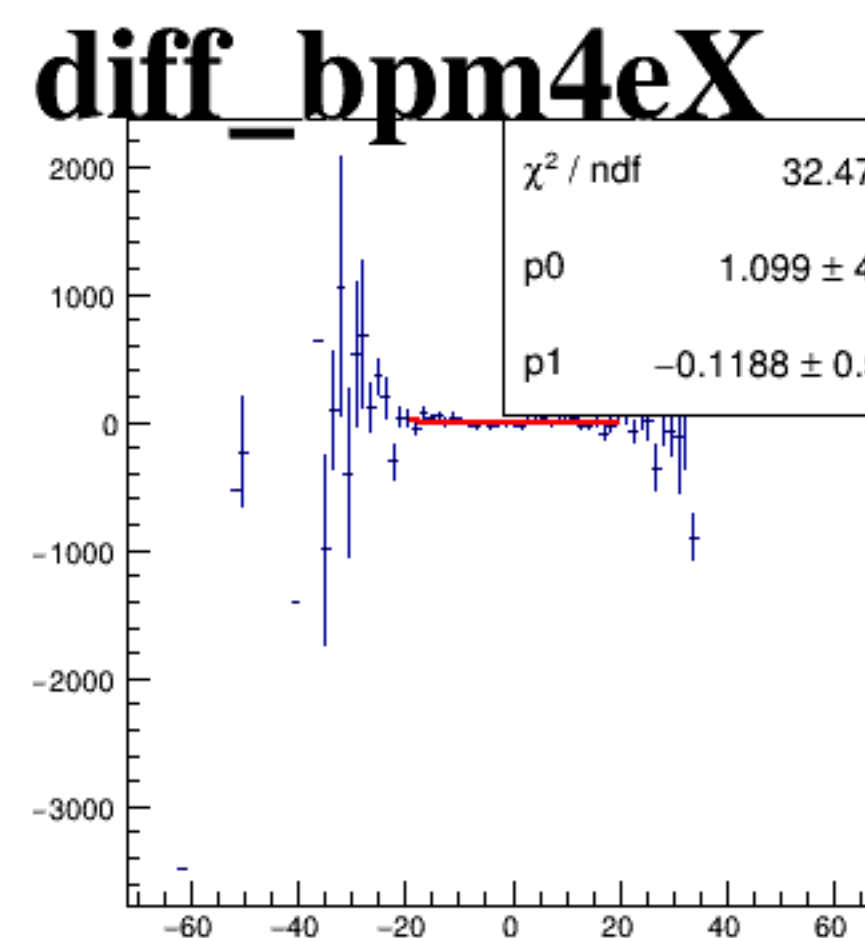
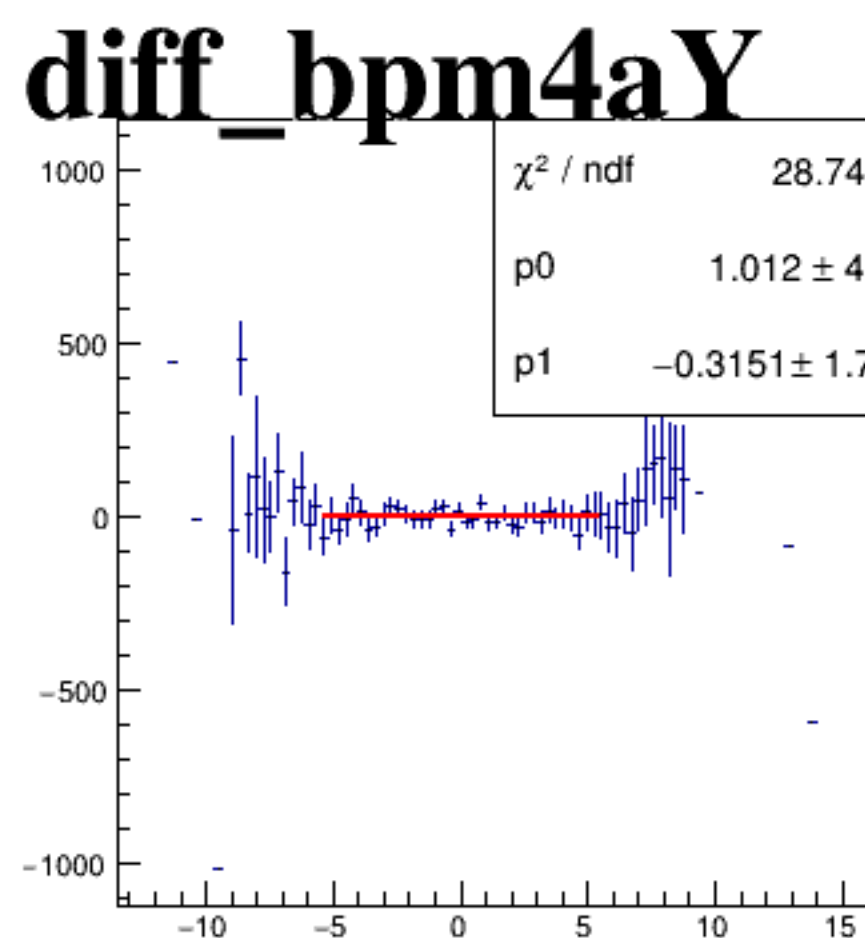
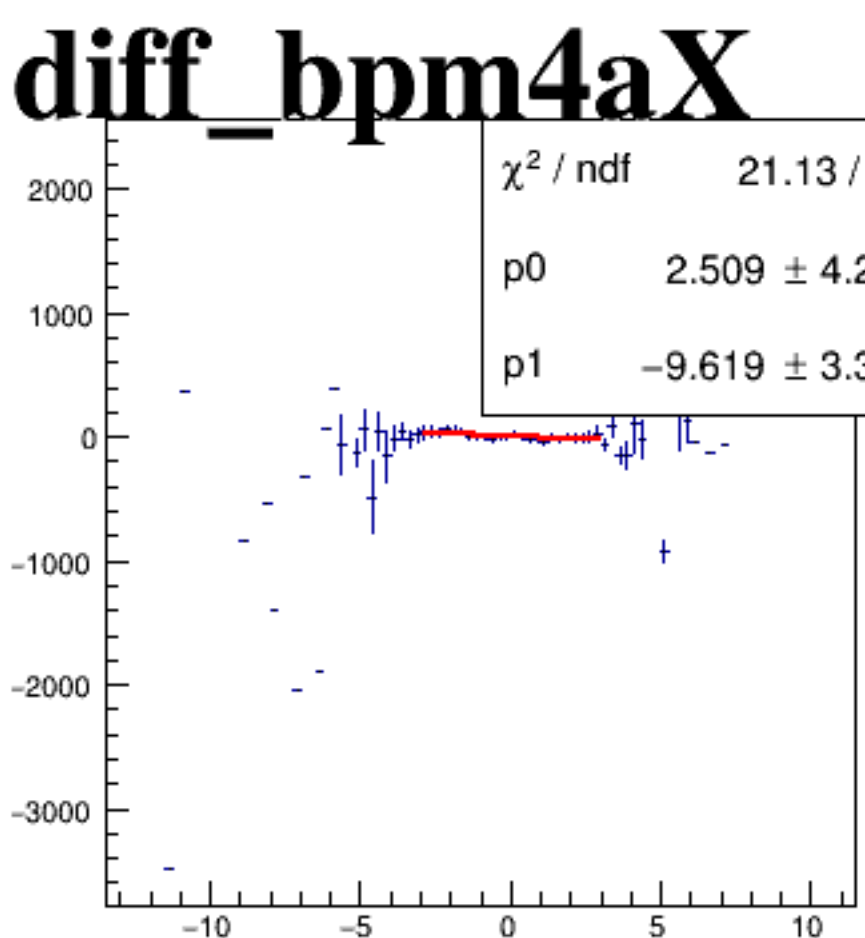
reg_asym_sam2



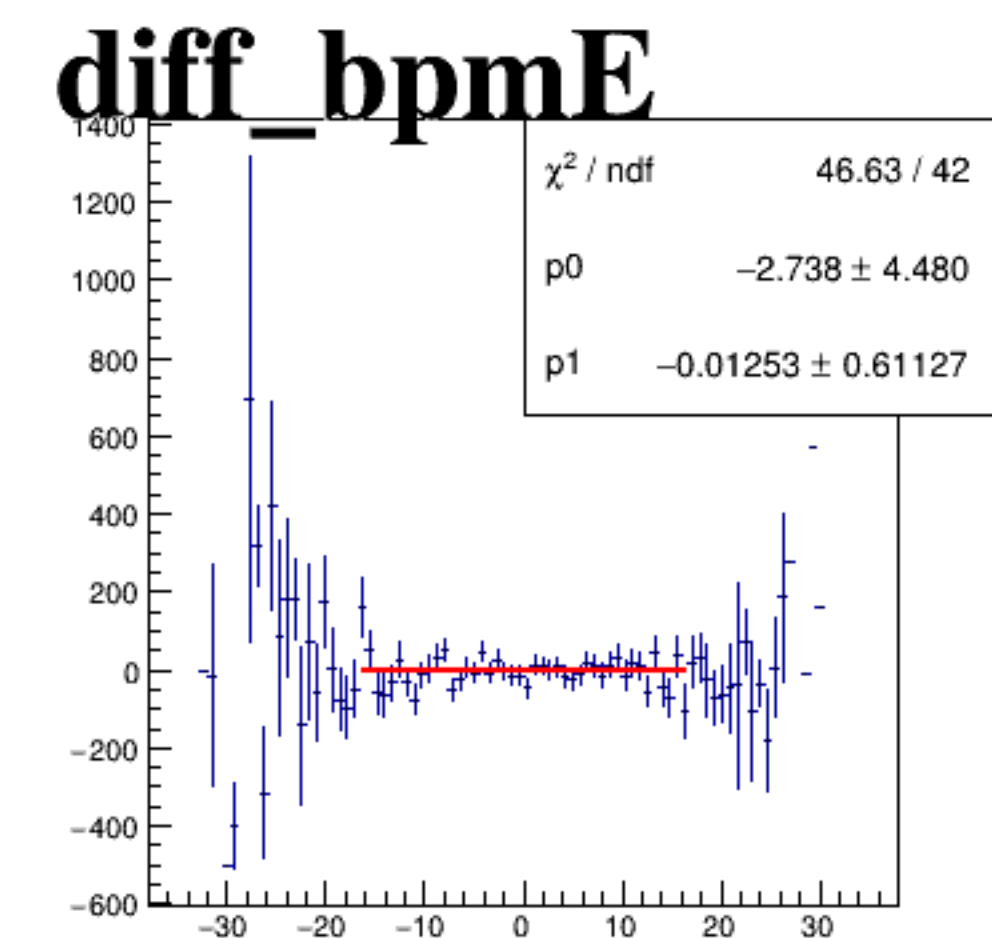
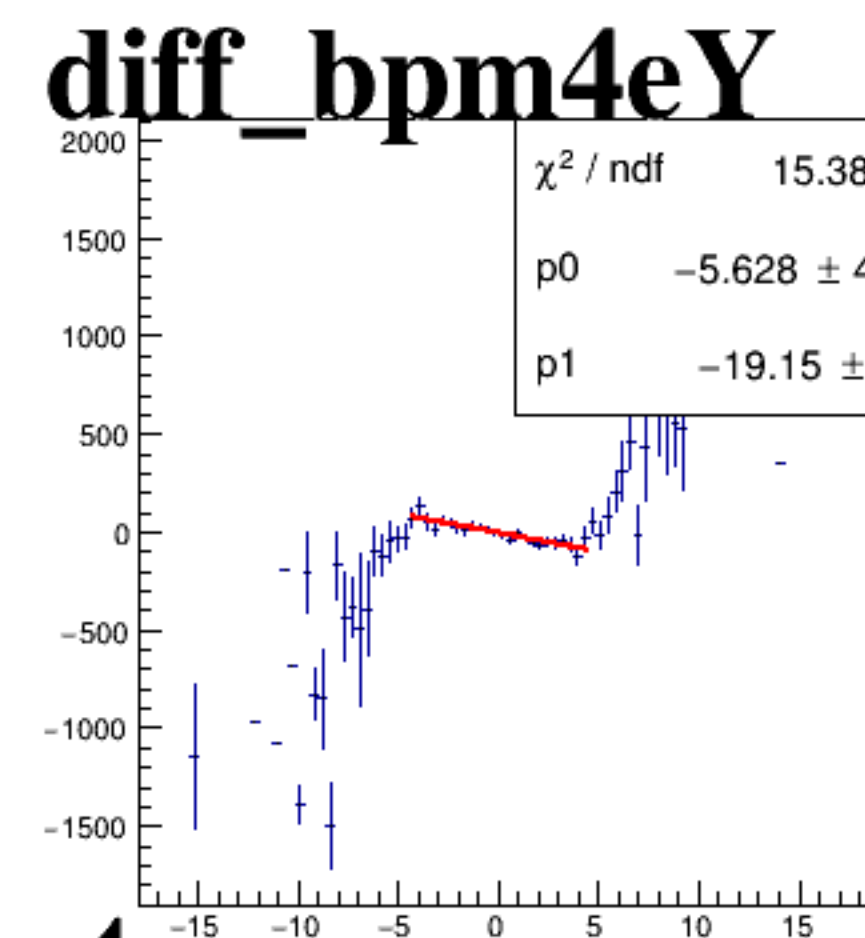
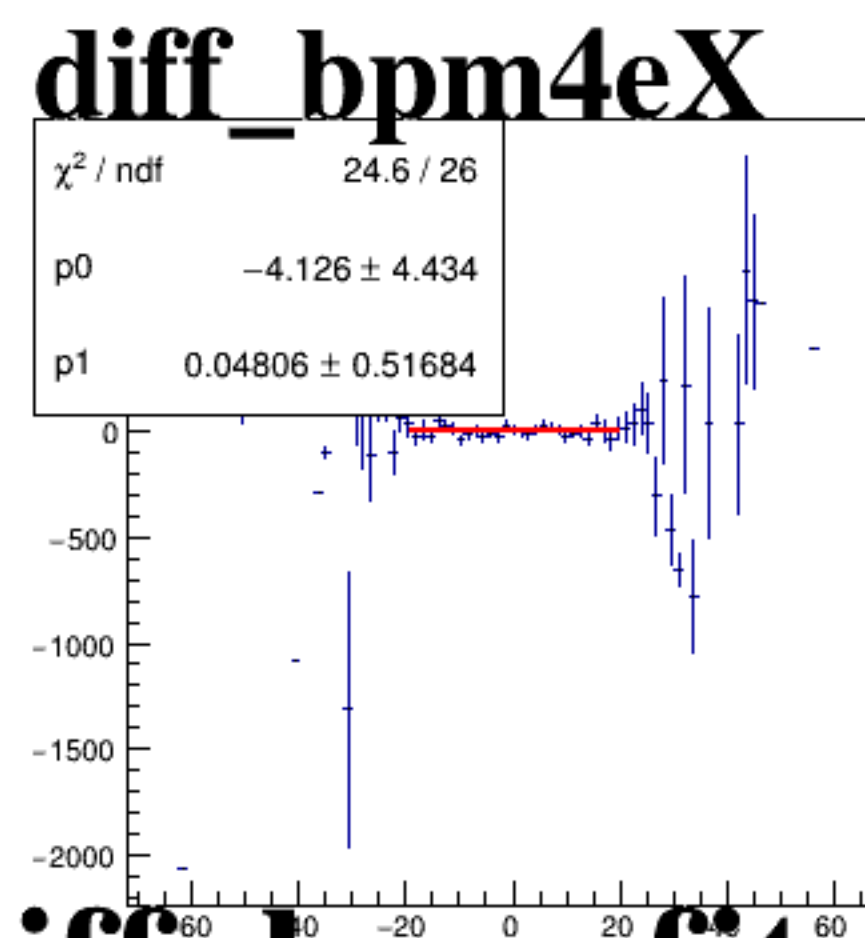
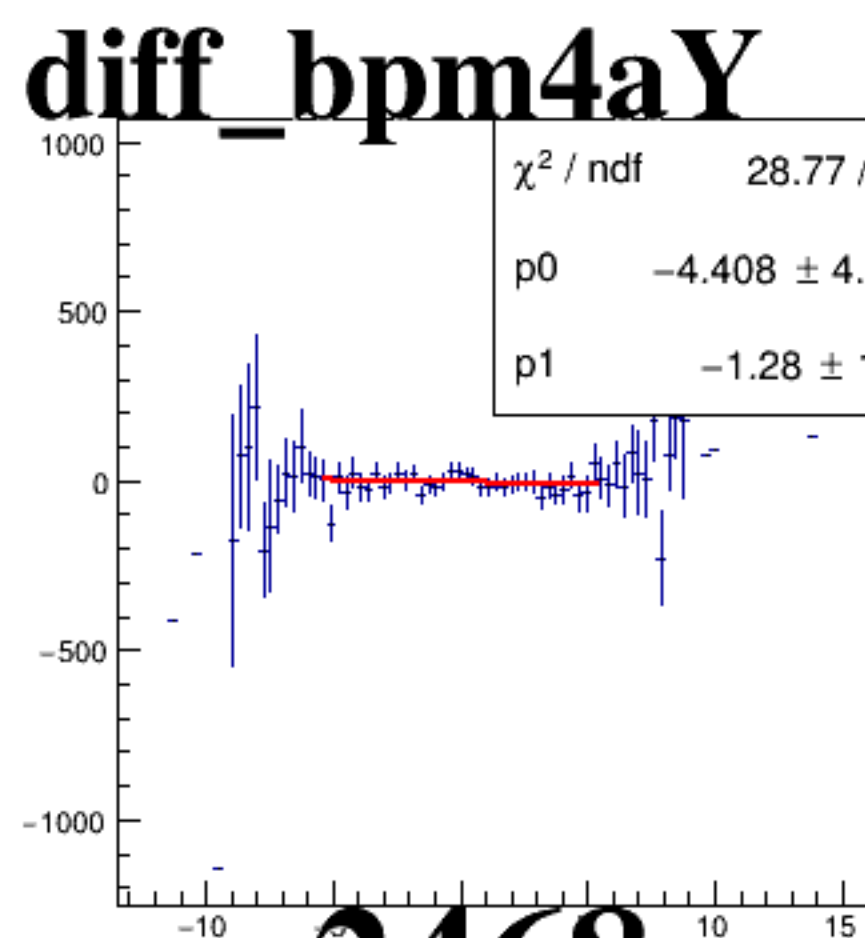
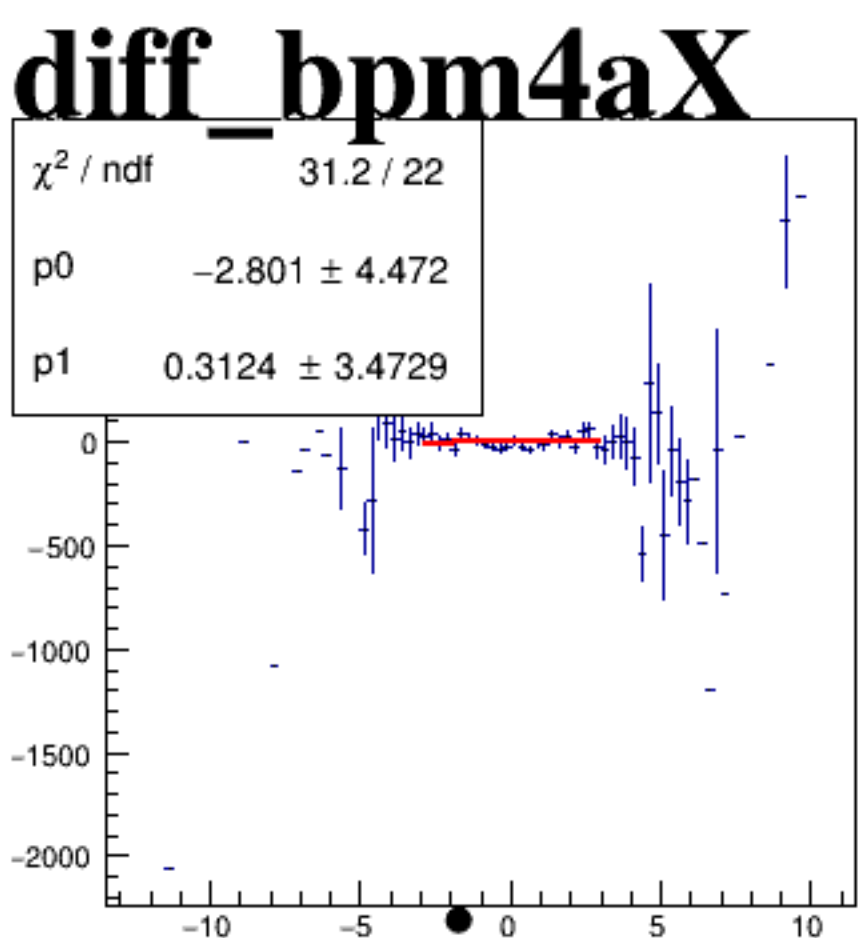
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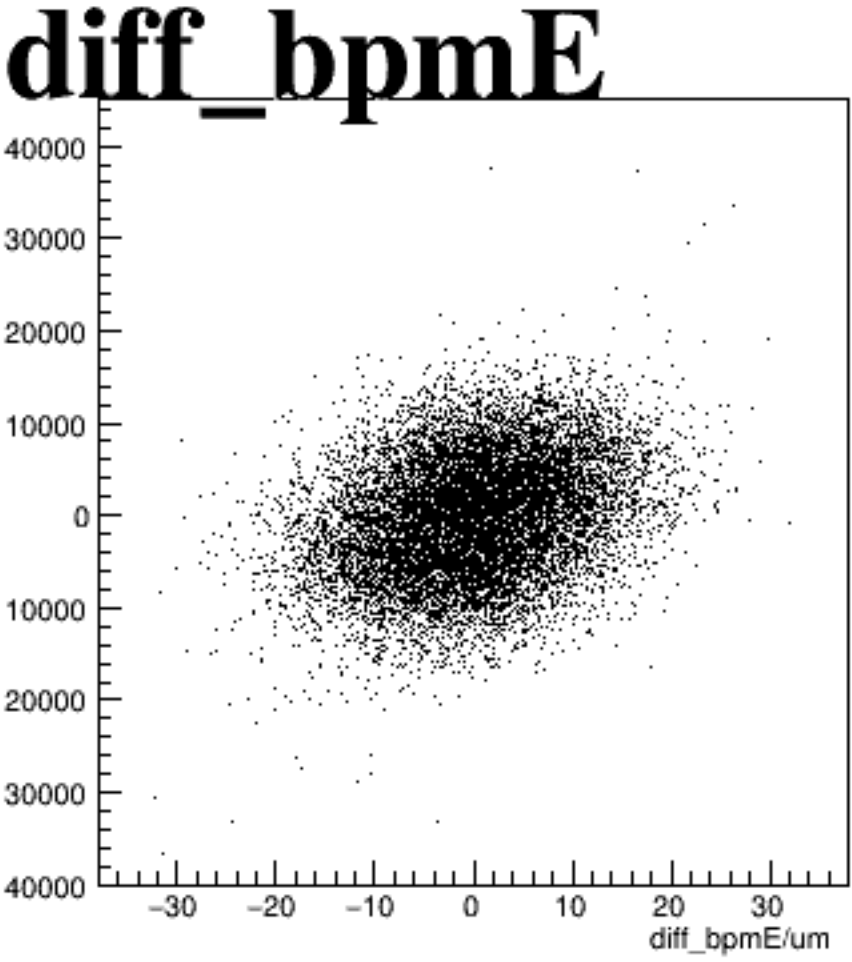
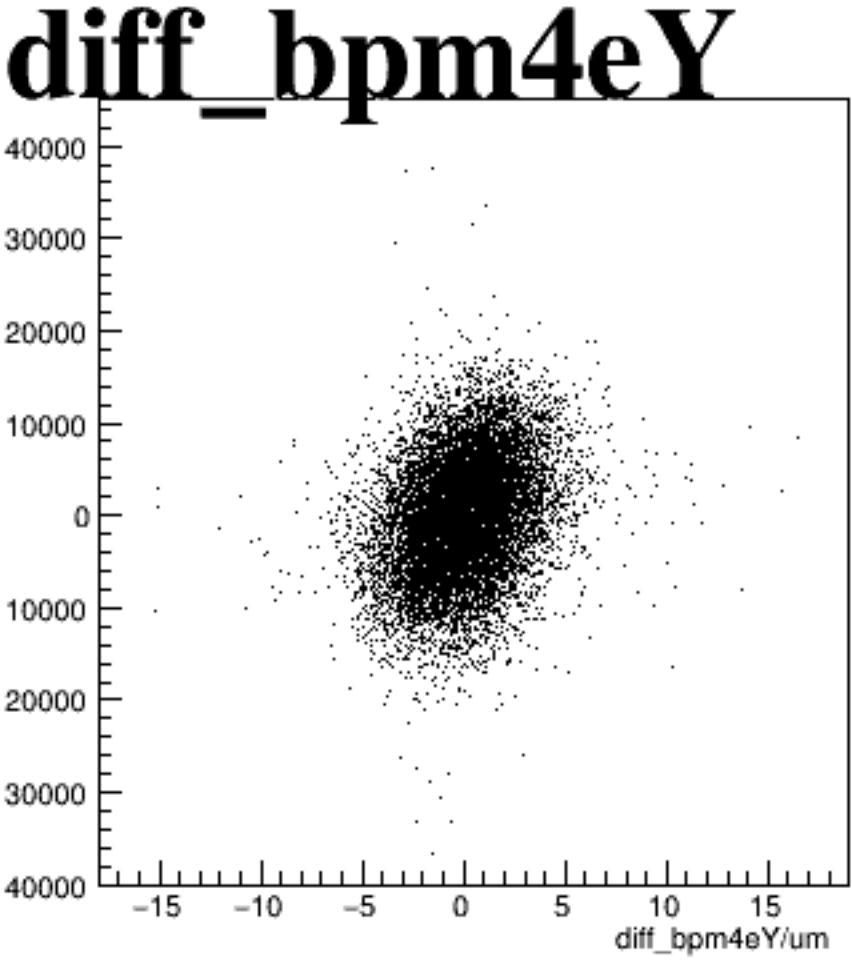
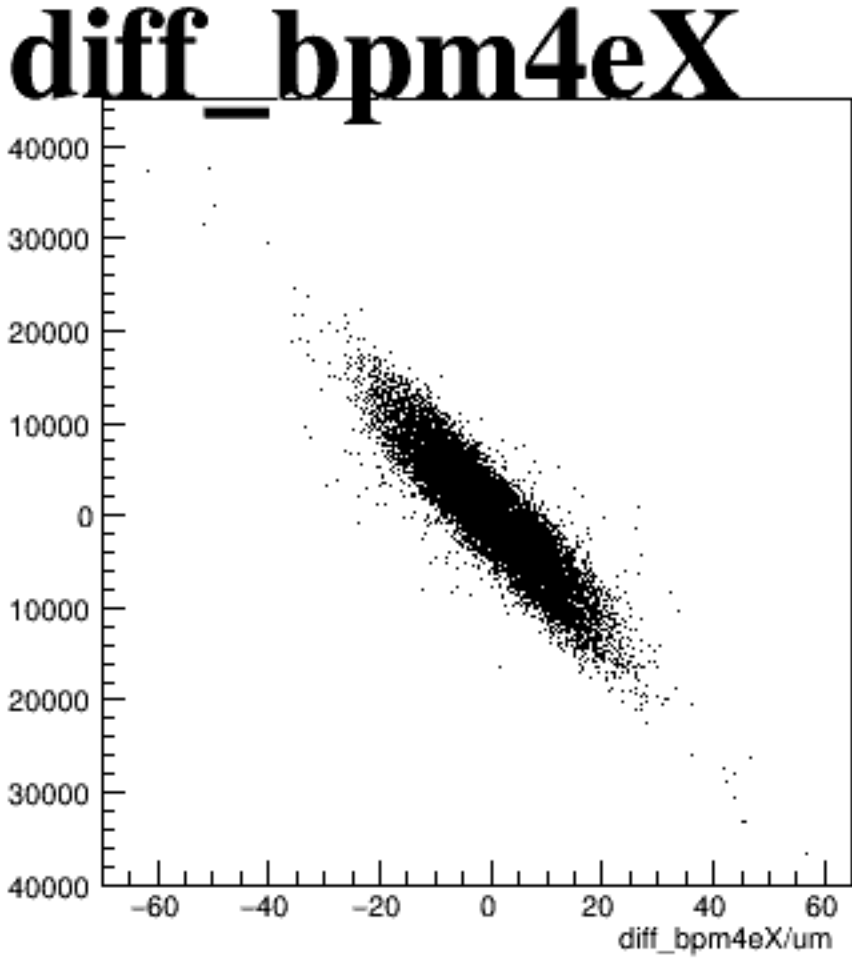
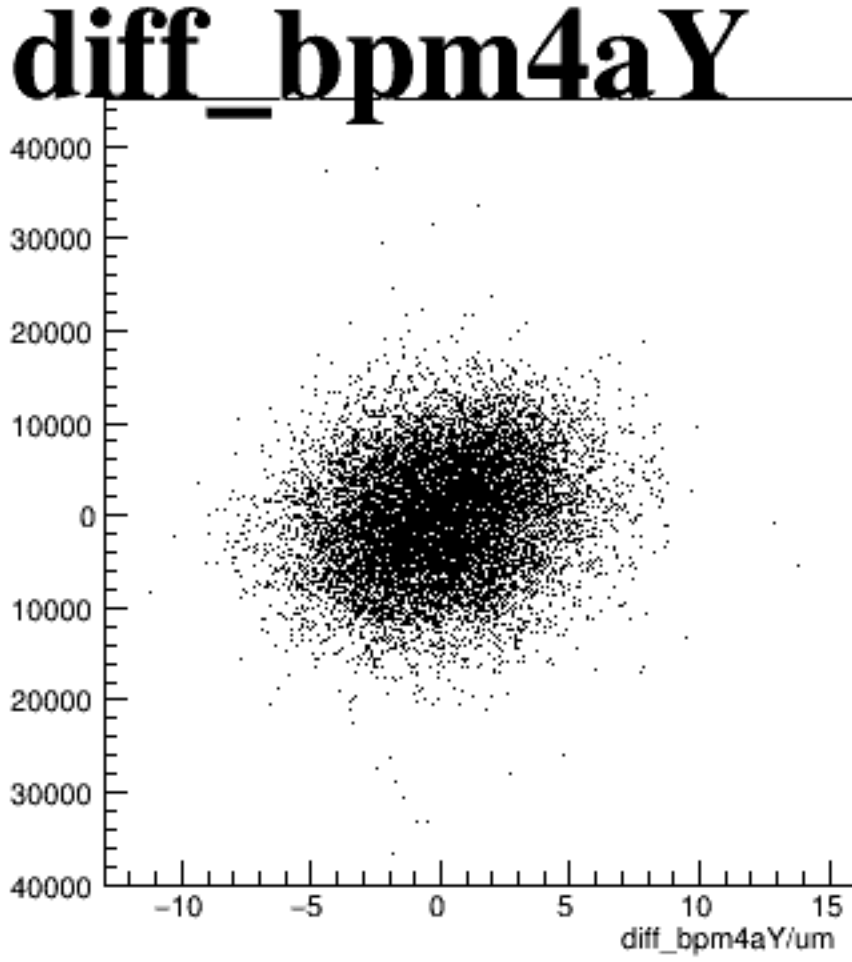
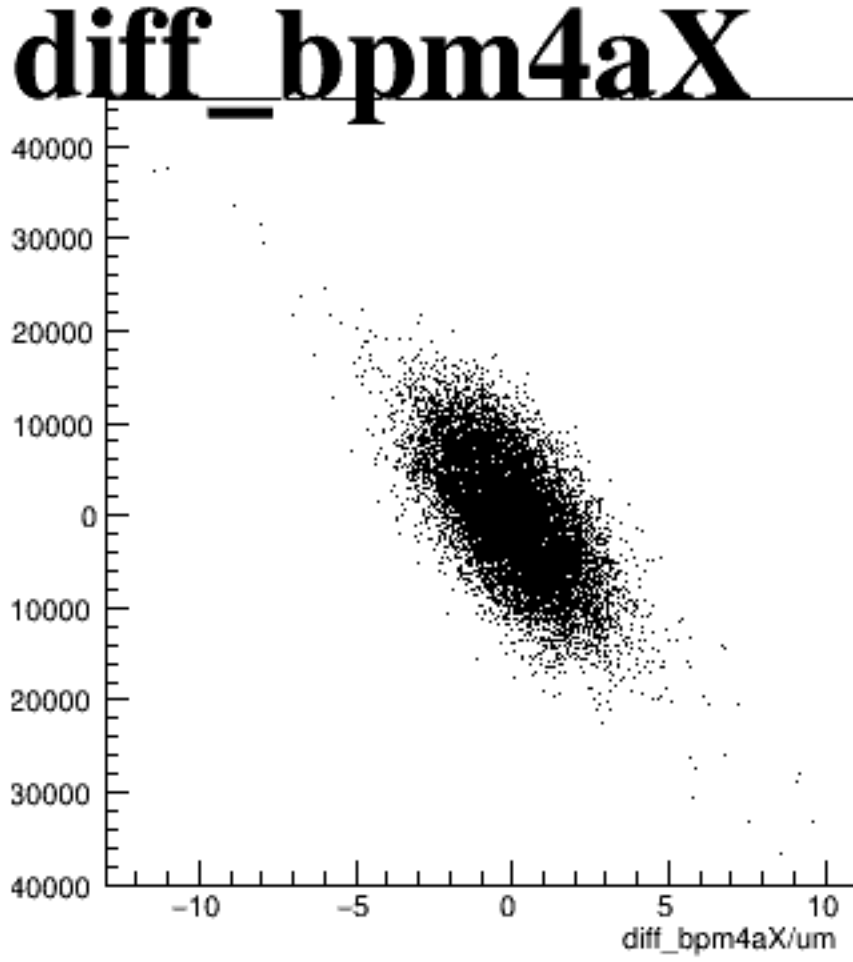
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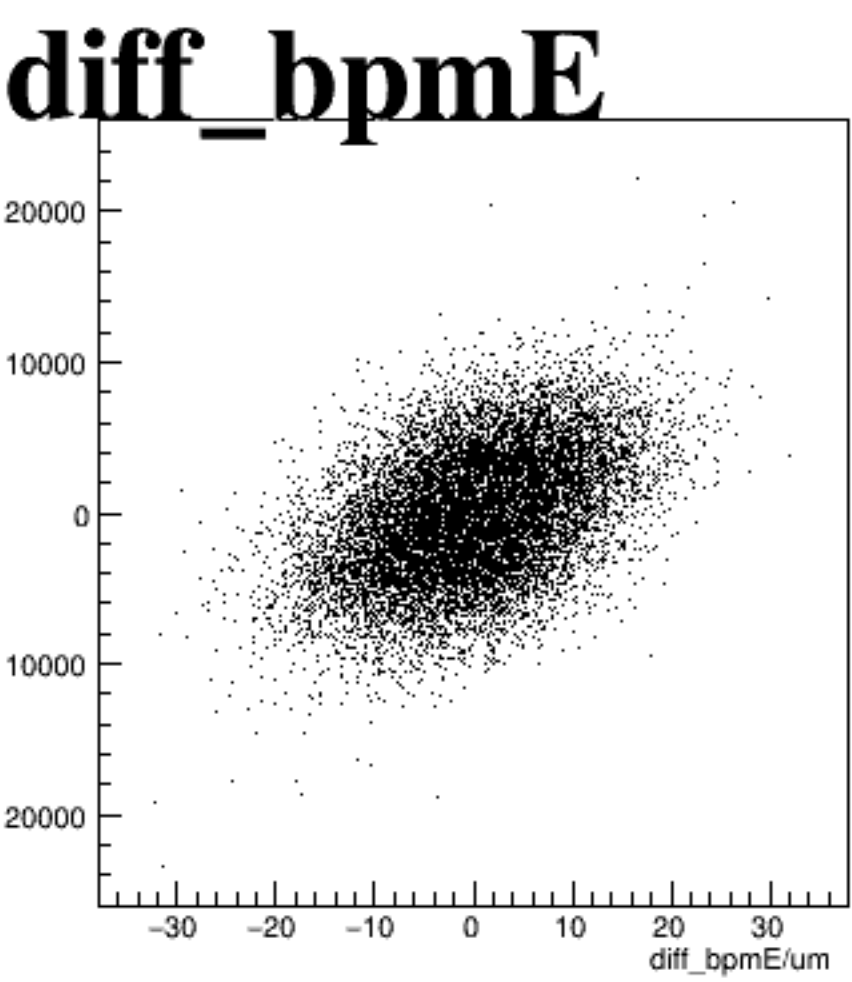
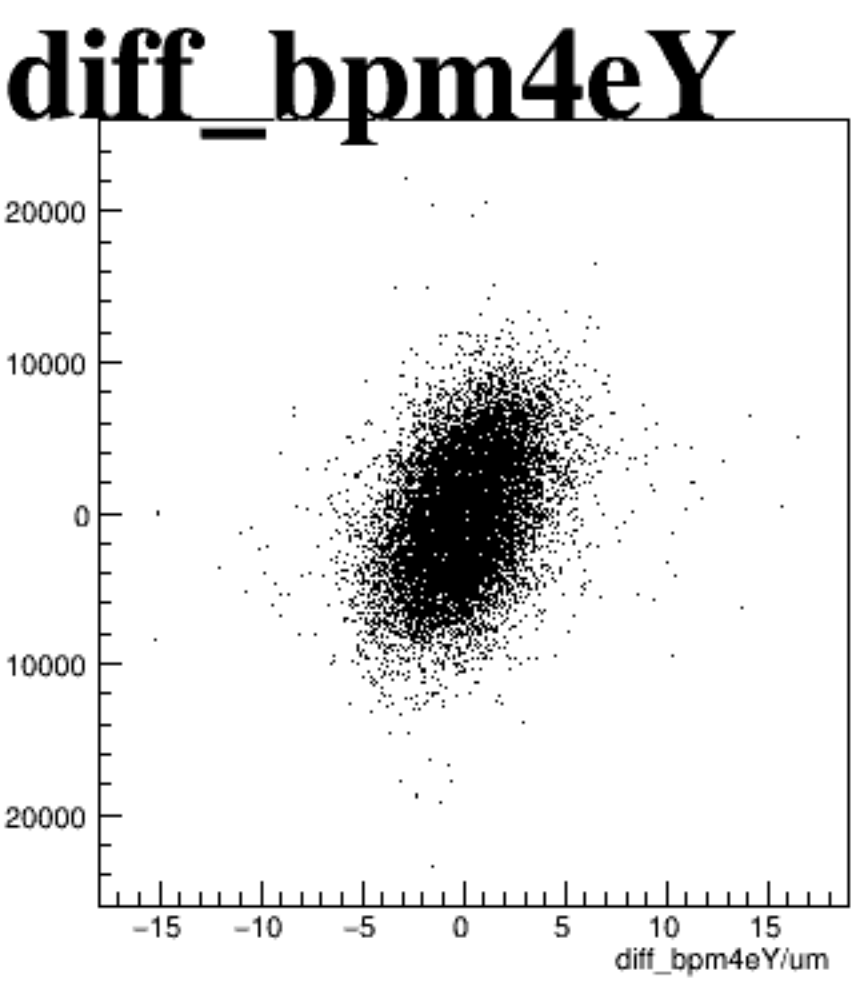
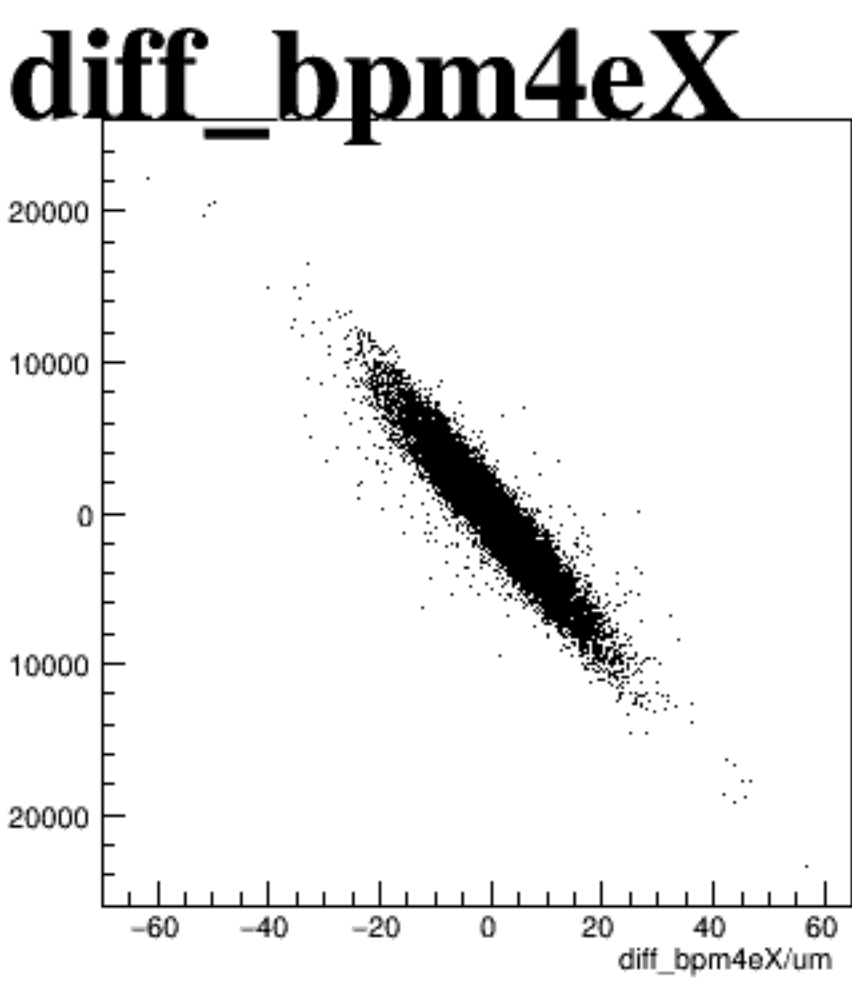
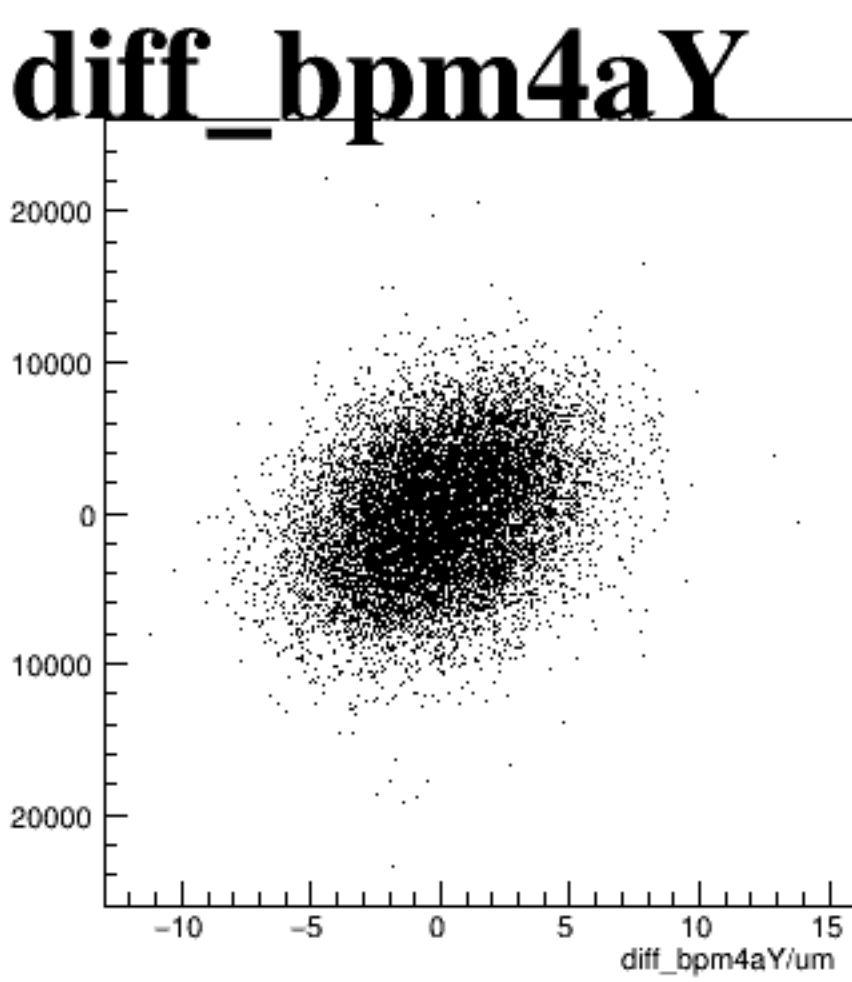
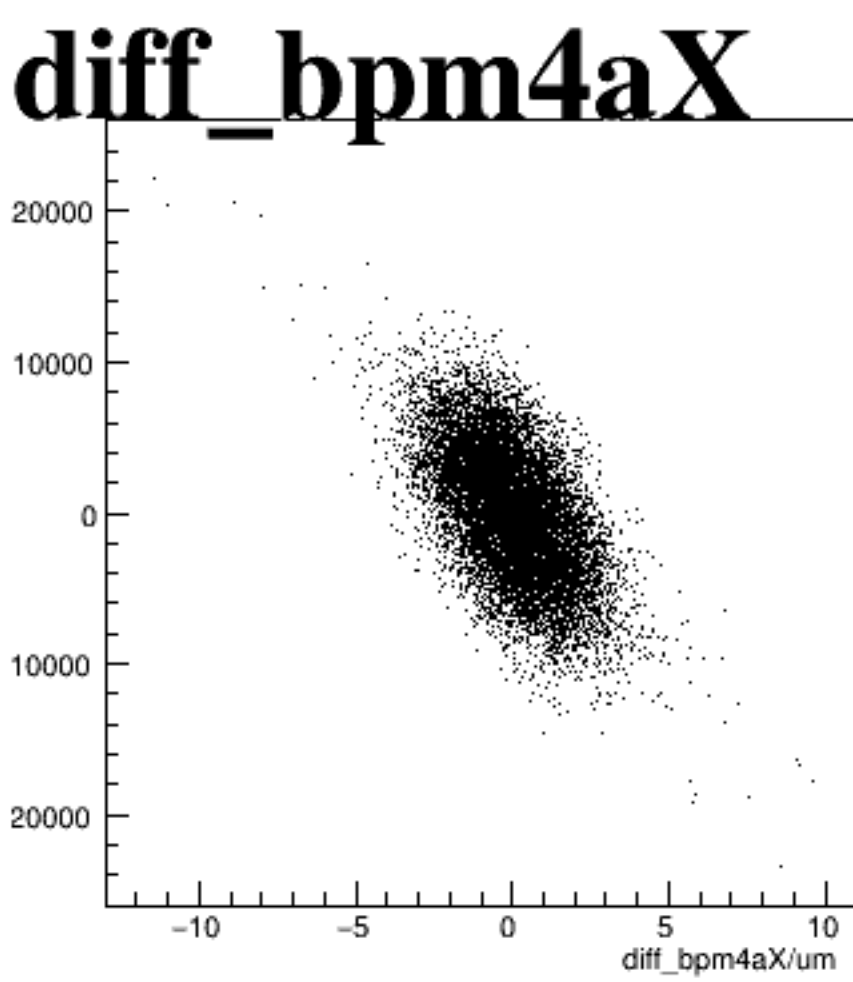
reg_asym_sam8



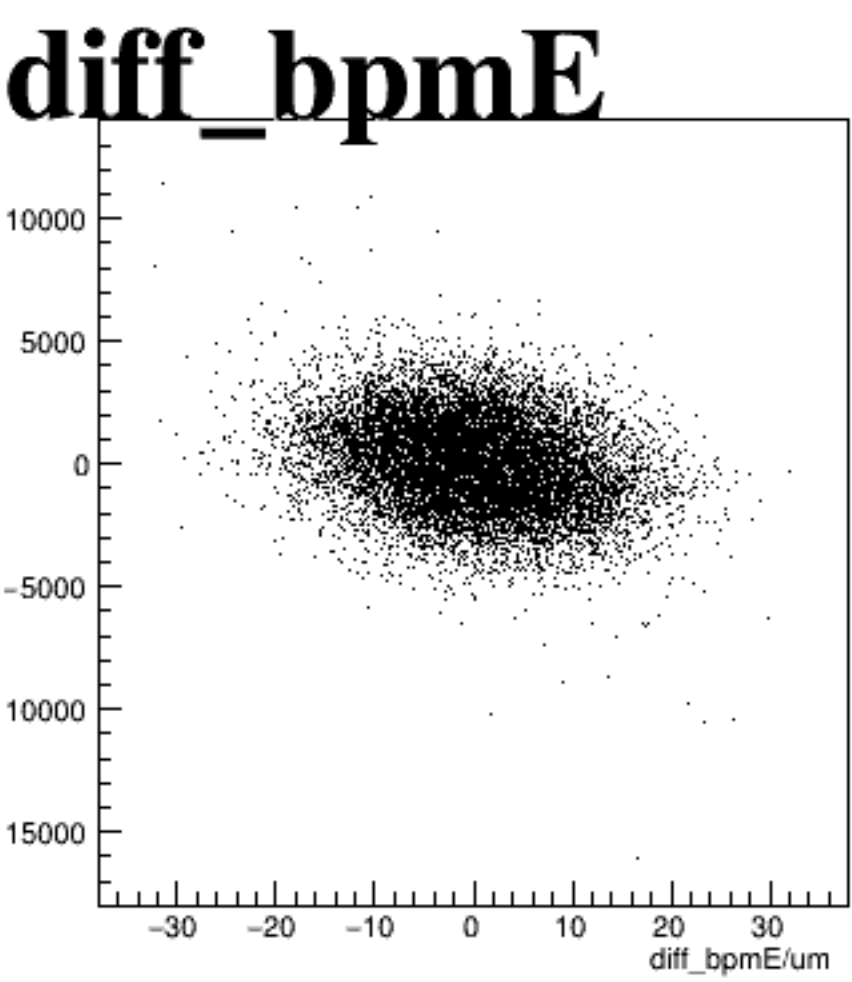
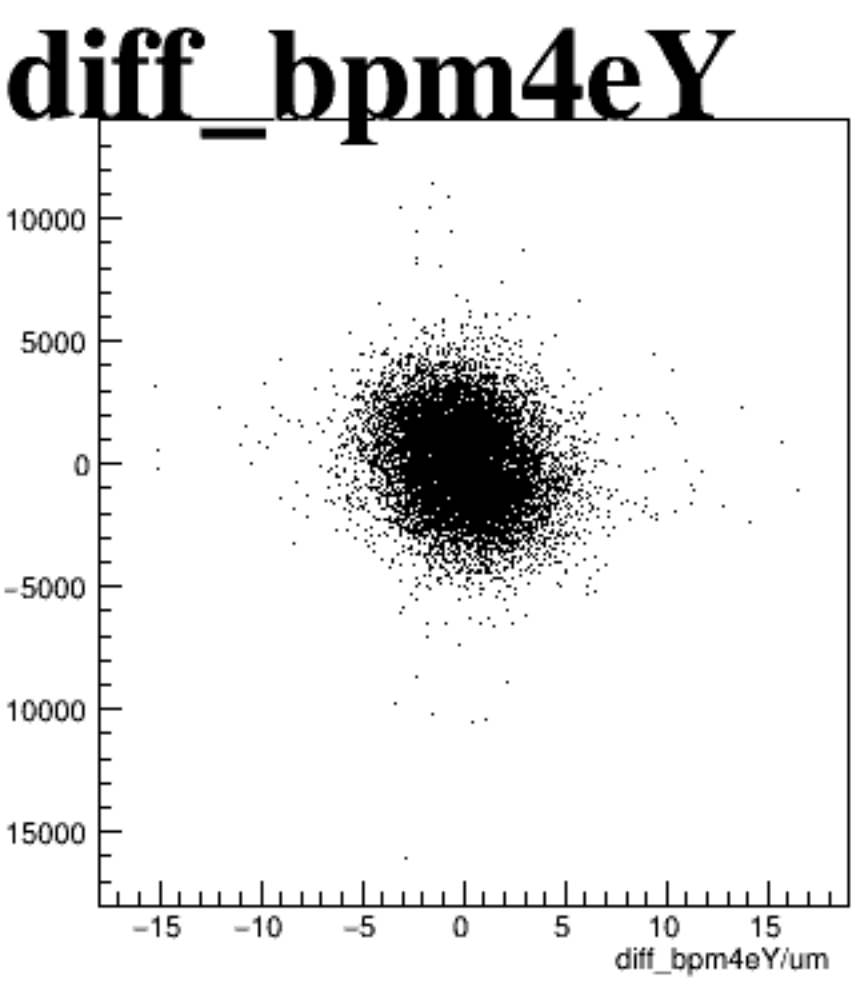
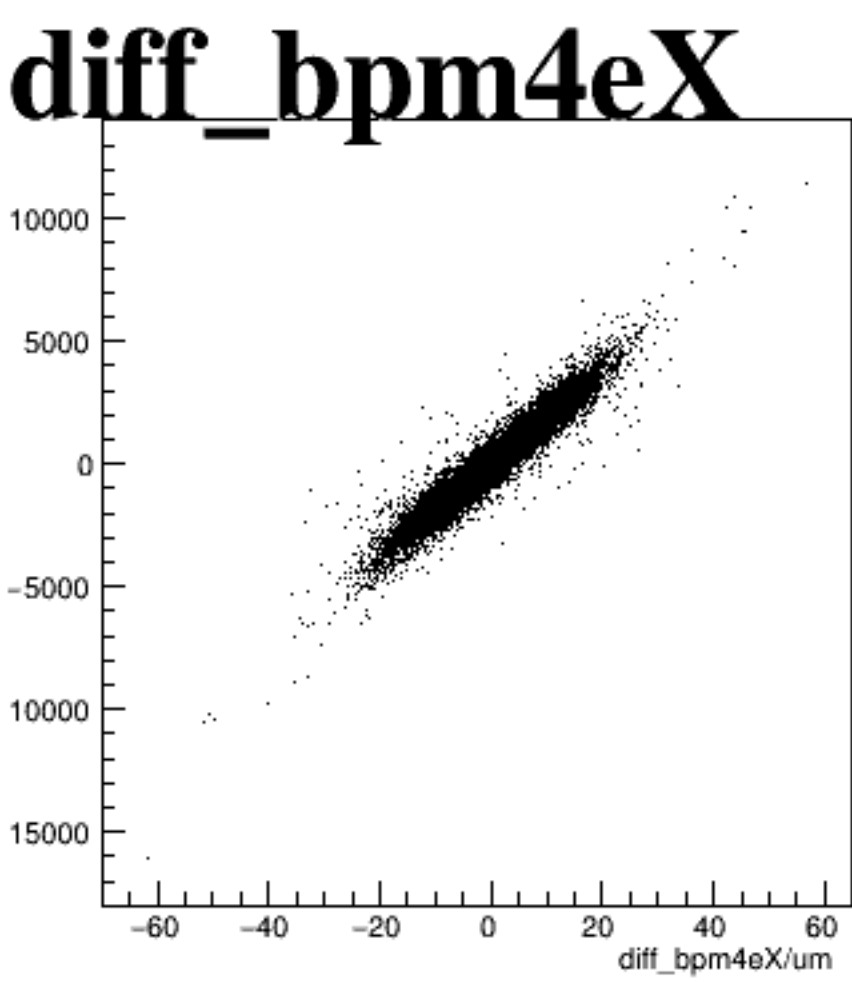
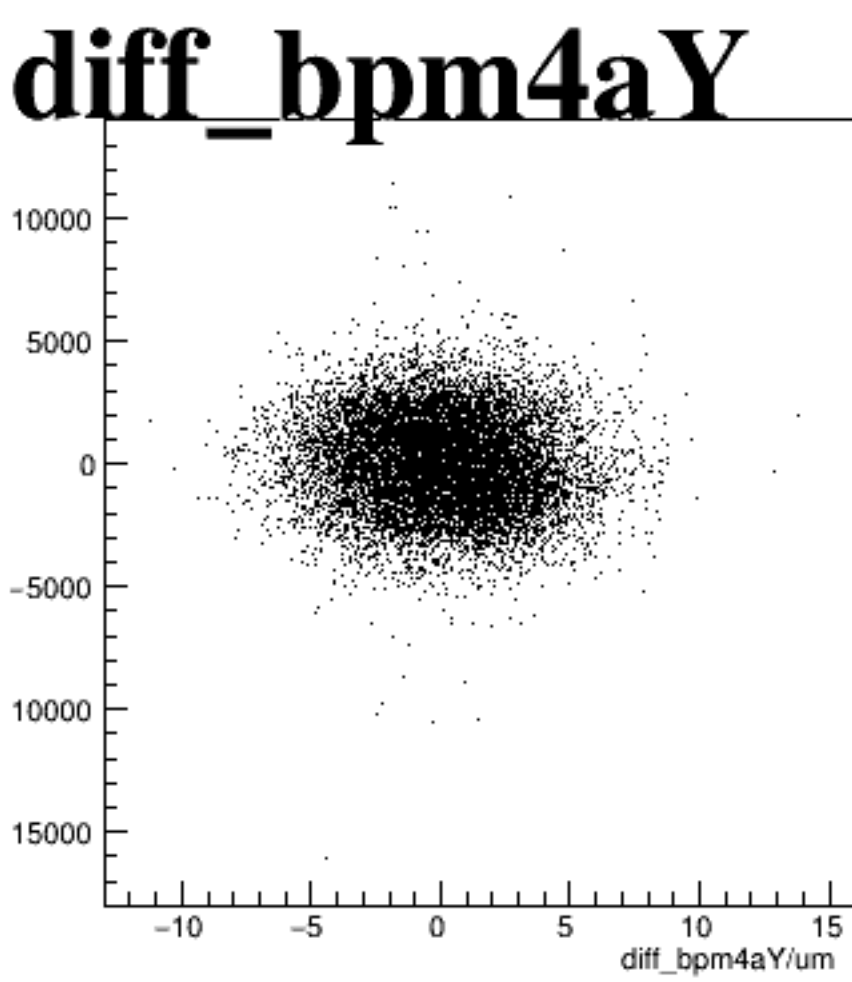
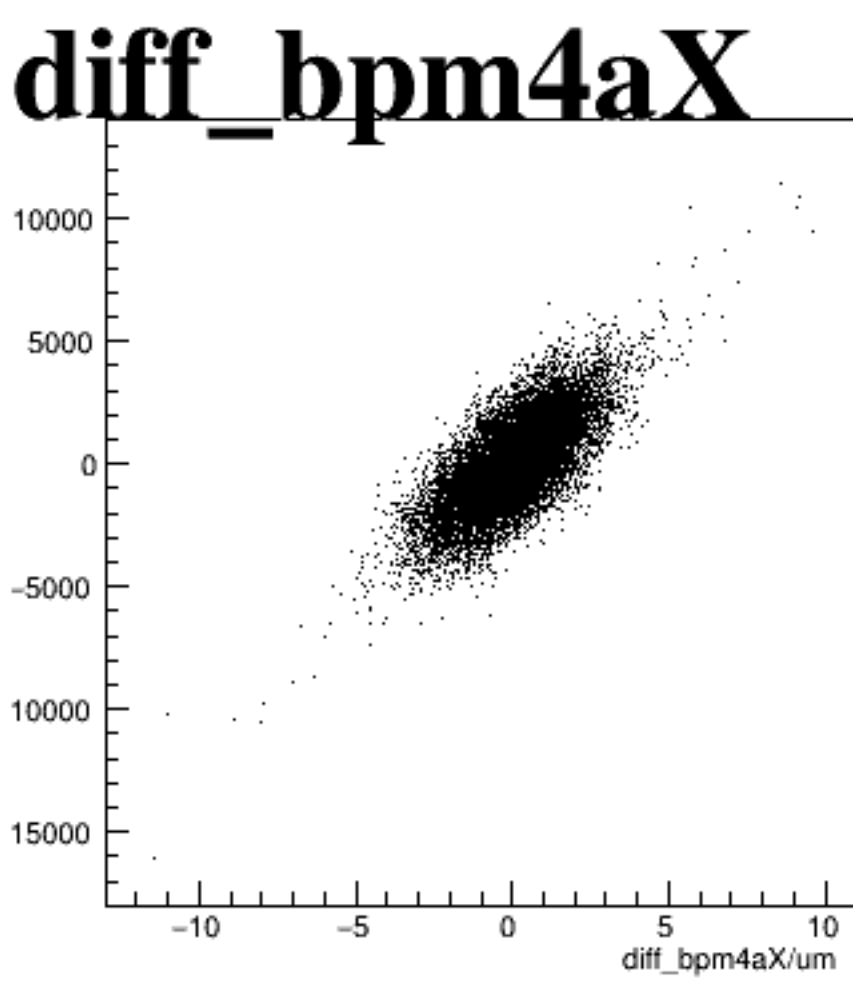
asym_sam2



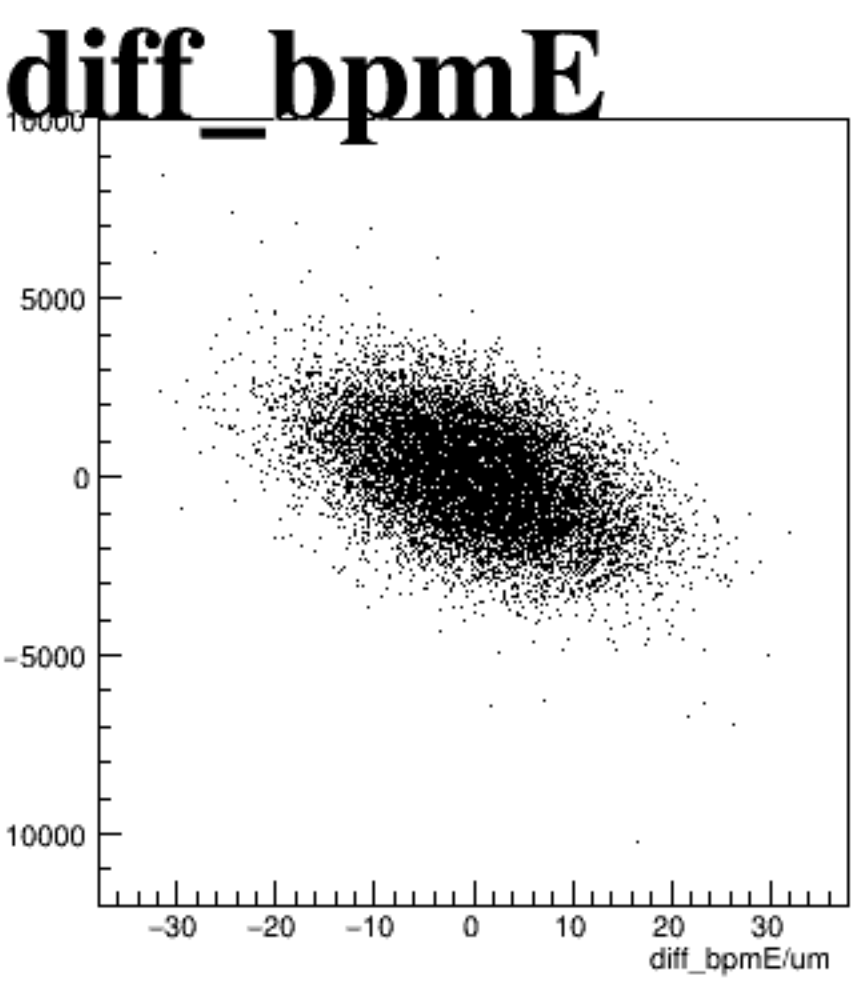
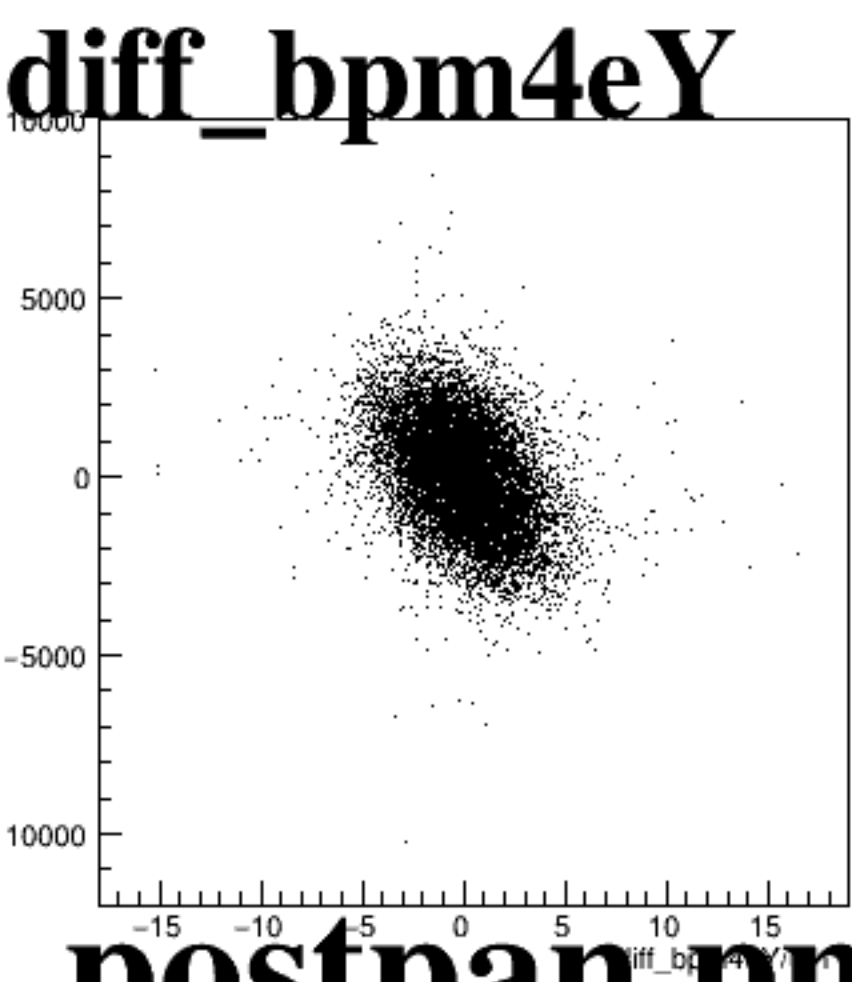
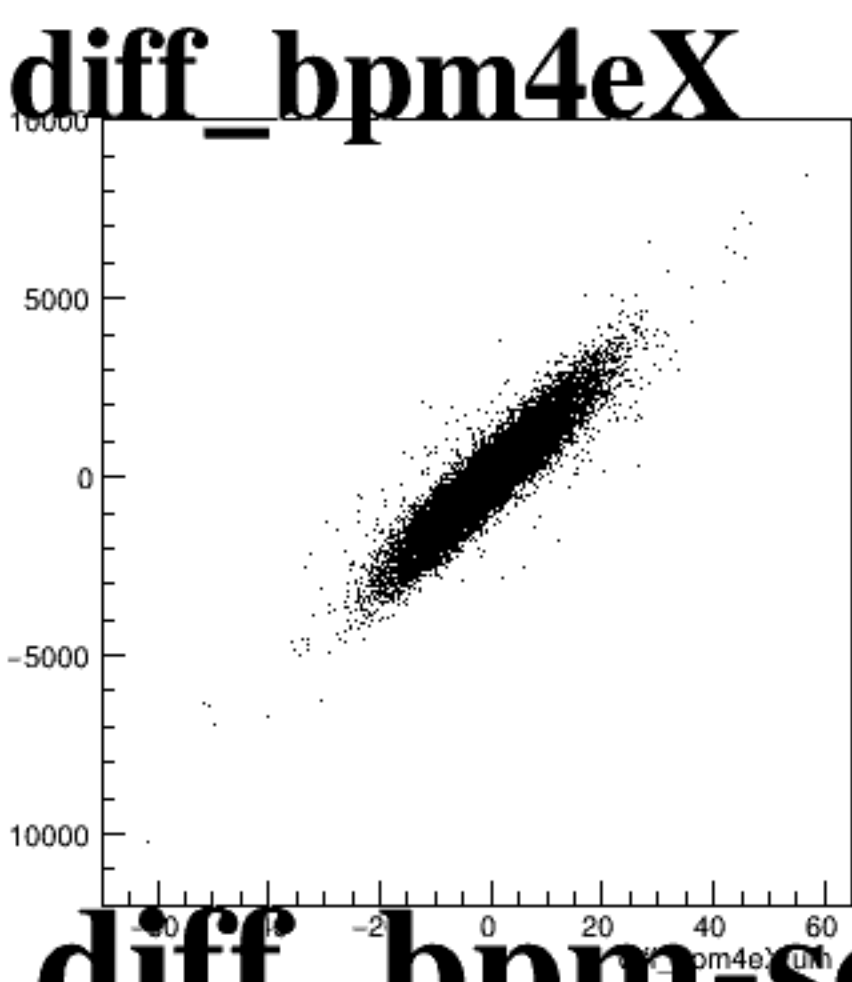
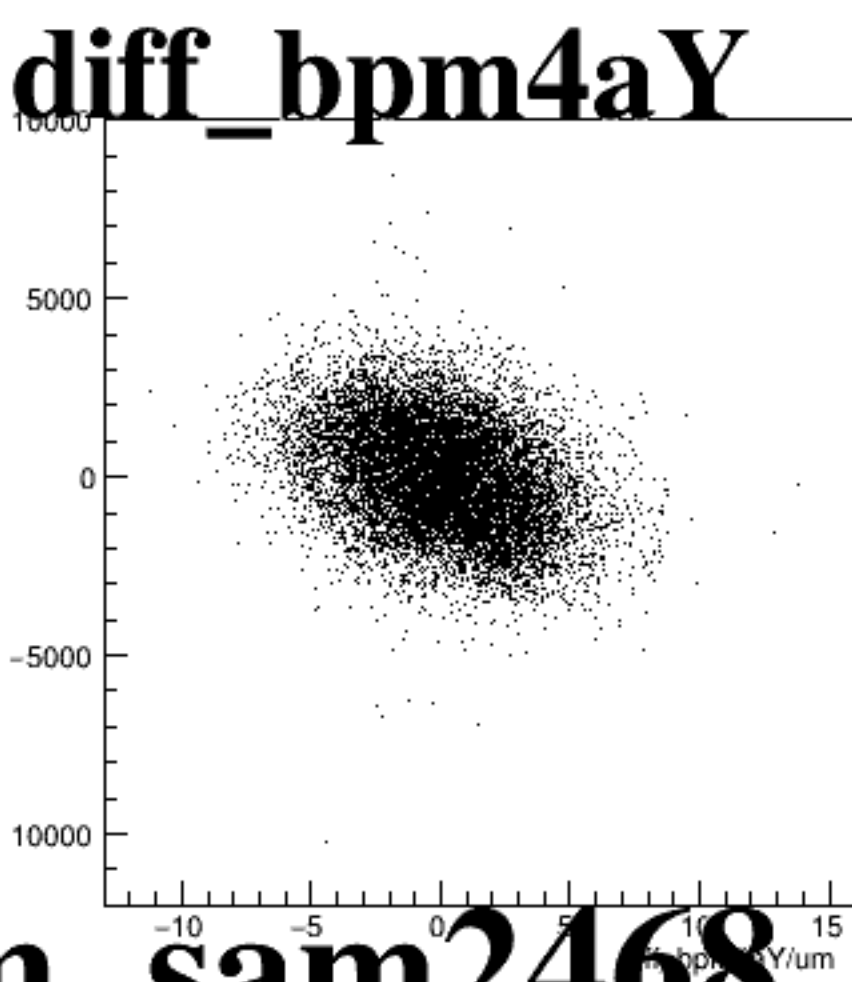
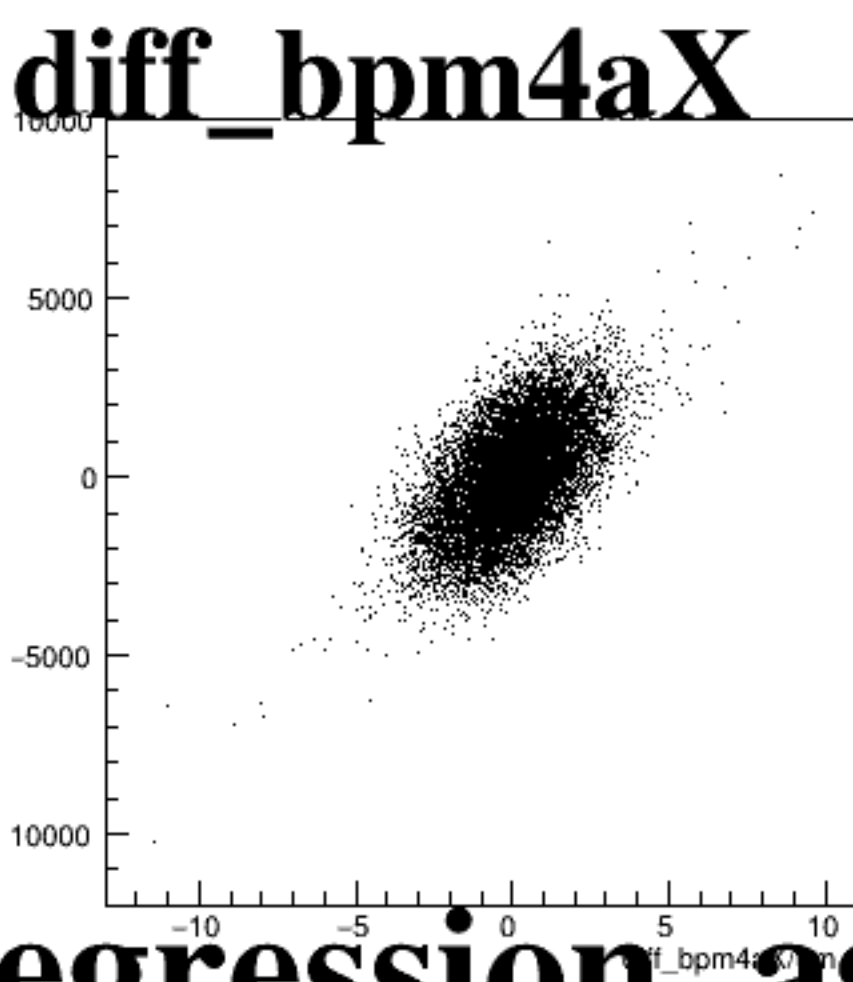
asym_sam4



asym_sam6



asym_sam8



The figure consists of five scatter plots arranged horizontally, each showing the difference in BPM (diff_bpm) for a specific beam parameter. The y-axis for all plots is labeled 'diff_bpm' and ranges from -6000 to 8000. The x-axis for each plot is labeled 'diff_bpm[parameter]/um'.

- diff_bpm4aX:** The x-axis ranges from -10 to 10. The data points are centered around 0.
- diff_bpm4aY:** The x-axis ranges from -10 to 15. The data points are centered around 0.
- diff_bpm4eX:** The x-axis ranges from -60 to 60. The data points are centered around 0.
- diff_bpm4eY:** The x-axis ranges from -15 to 15. The data points are centered around 0.
- diff_bpmE:** The x-axis ranges from -30 to 30. The data points are centered around 0.

In all plots, the data points form a dense, roughly circular cloud centered at the origin, indicating that the difference in BPM is small and centered around zero for the parameters shown.

diff_bpm4aX

diff_bpm4aY

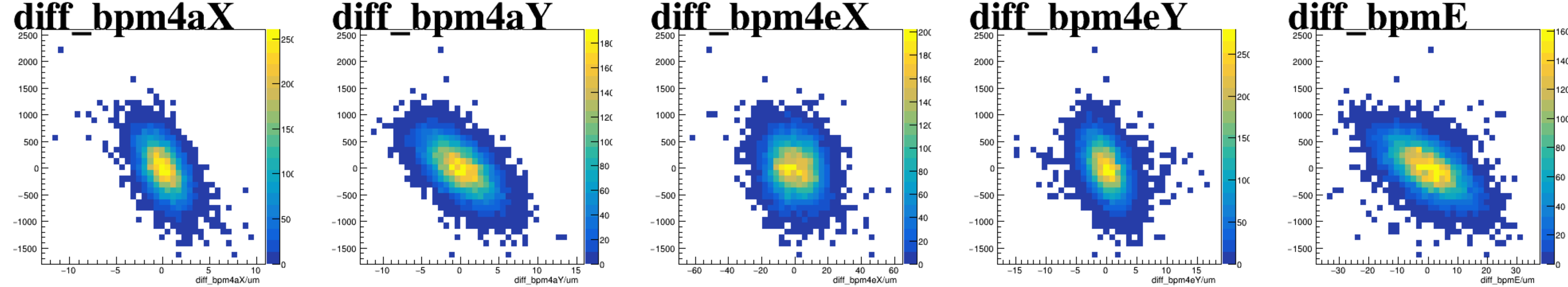
diff_bpm4eX

diff_bpm4eY

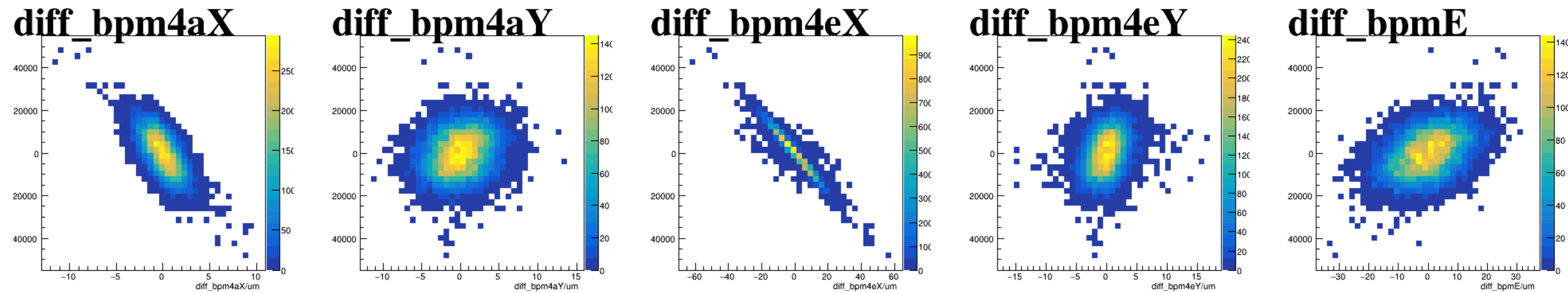
diff_bpmE

reg sam2468 postnan

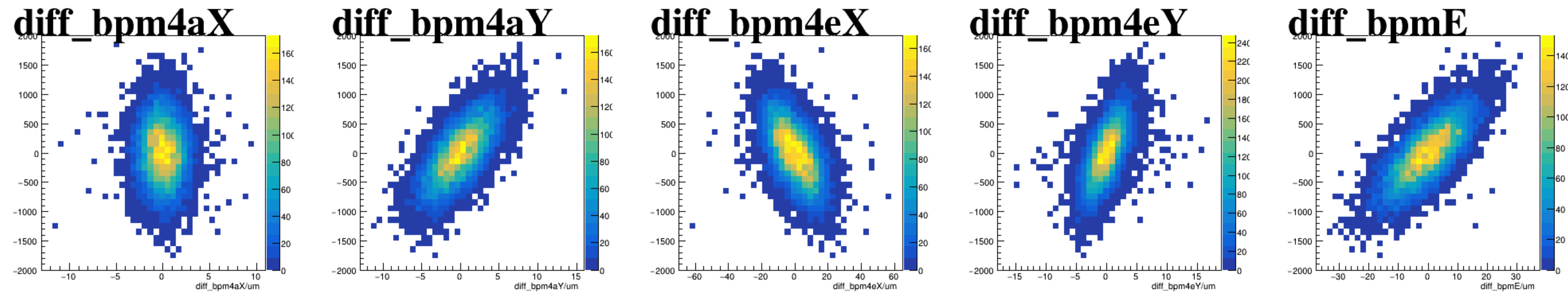
asym_sam1



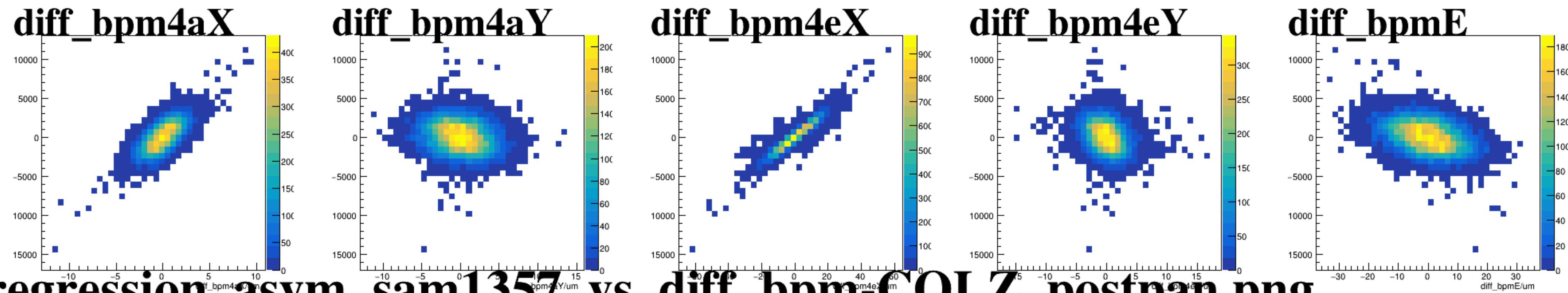
asym_sam3



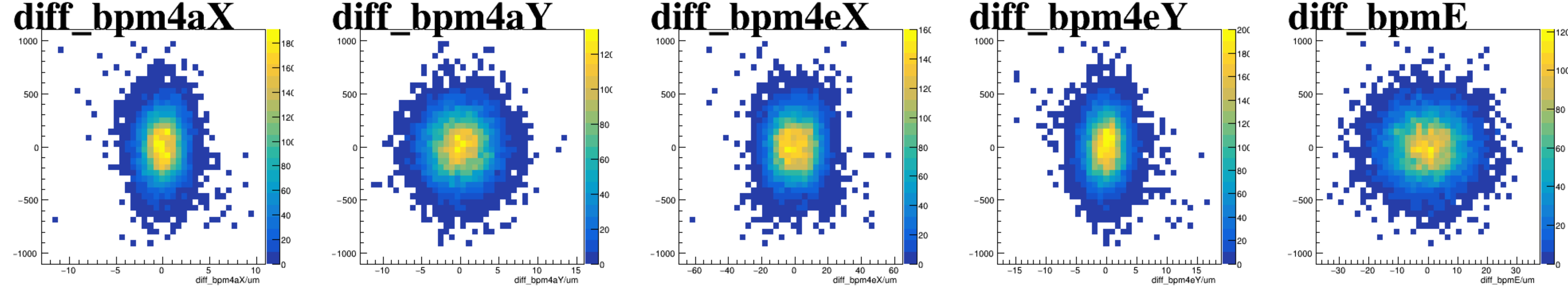
asym_sam5



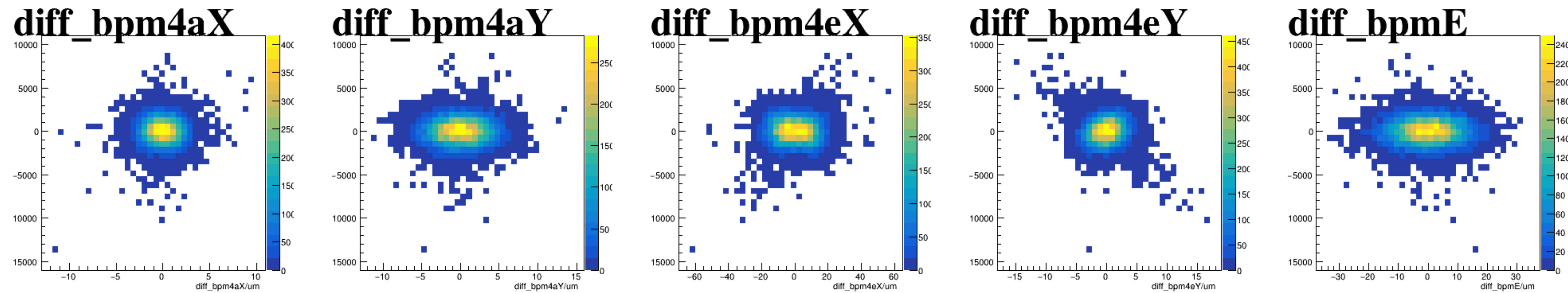
asym_sam7



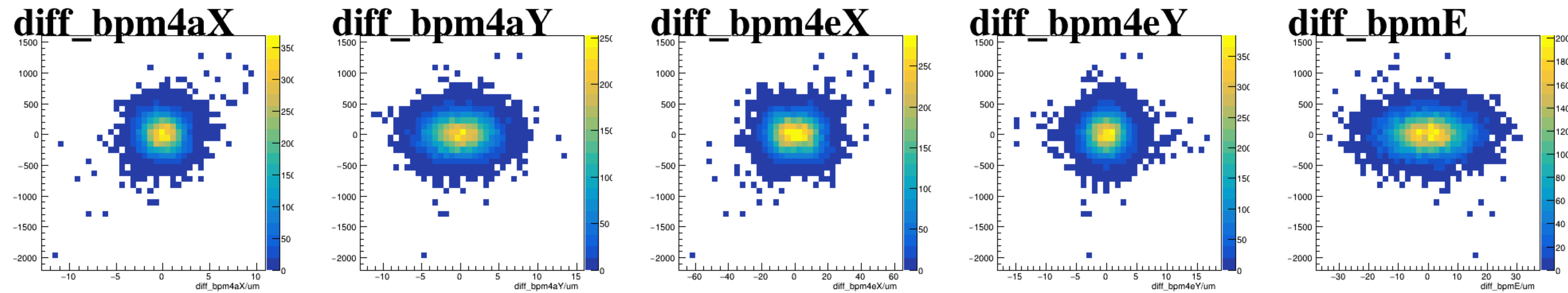
reg_asym_sam1



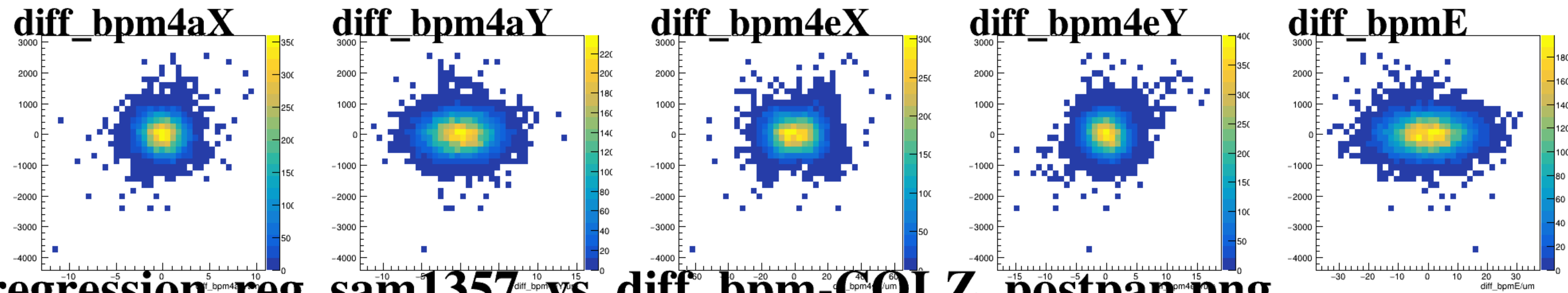
reg_asym_sam3



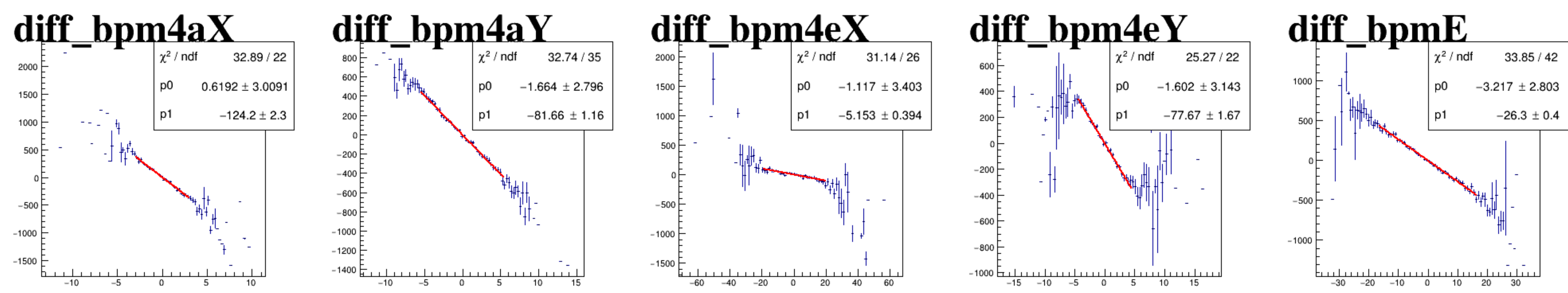
reg_asym_sam5



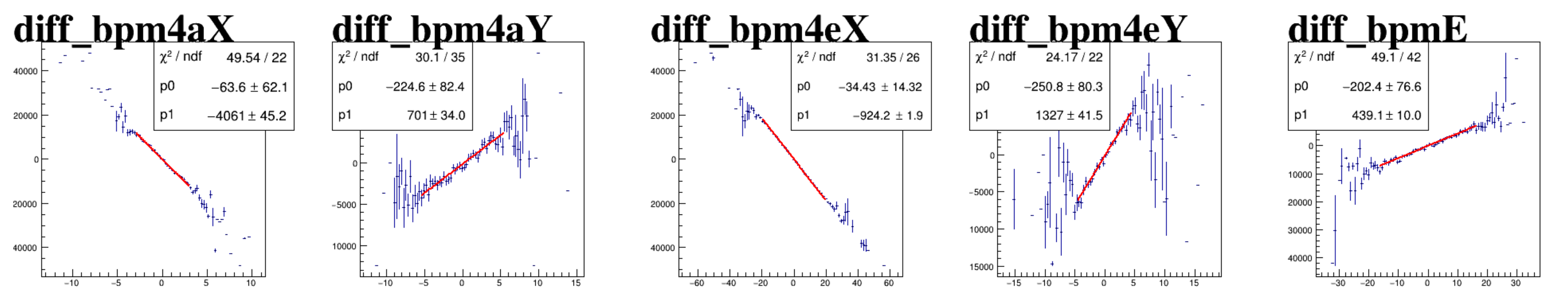
reg_asym_sam7



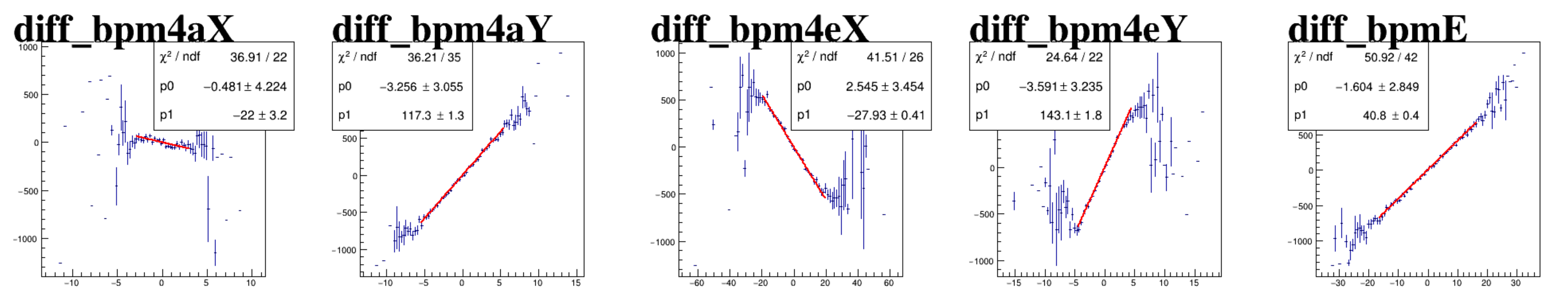
asym_sam1



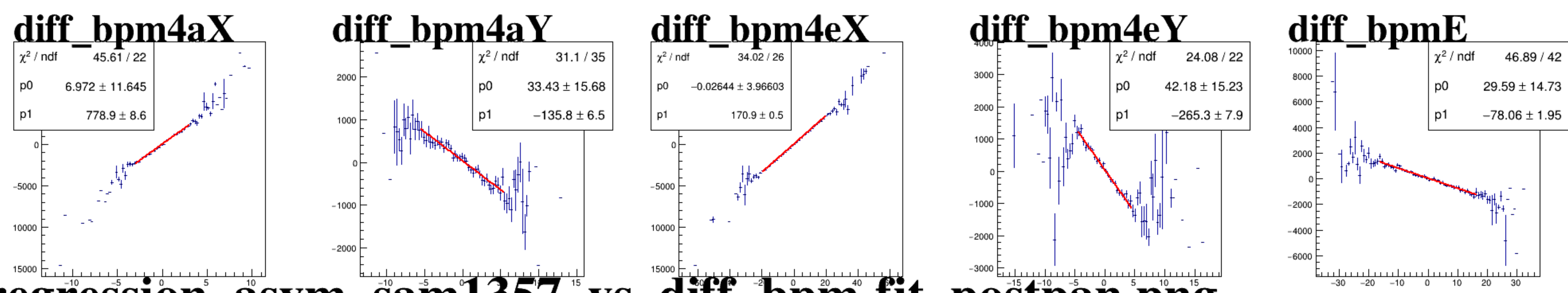
asym_sam3



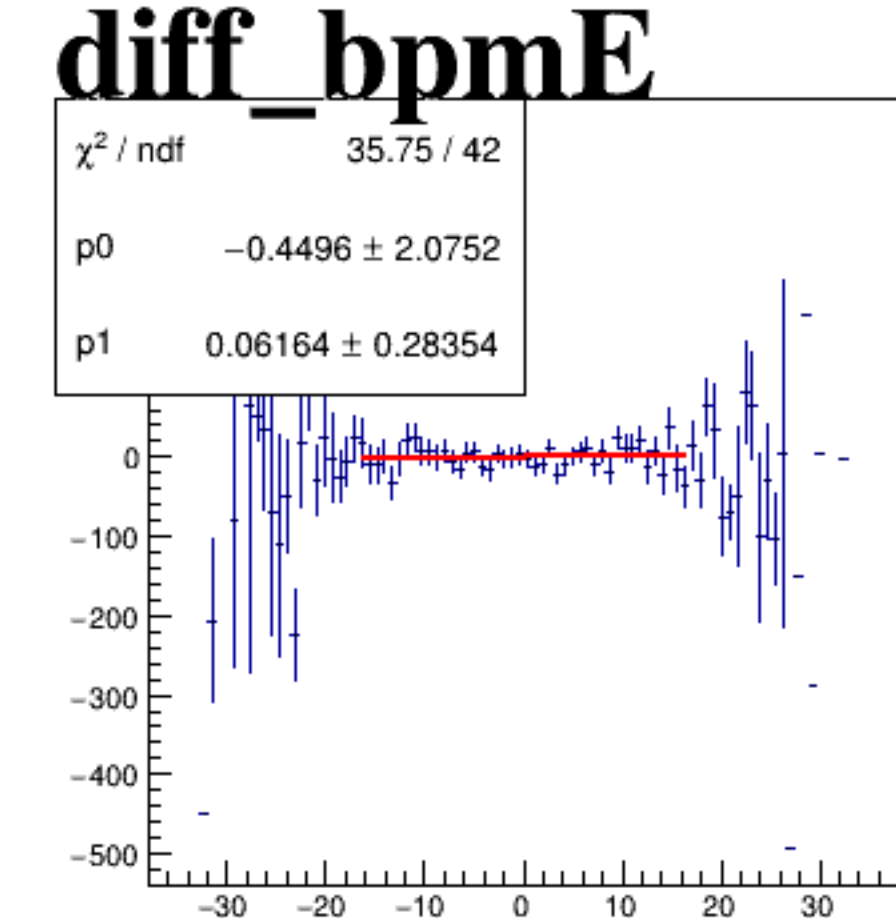
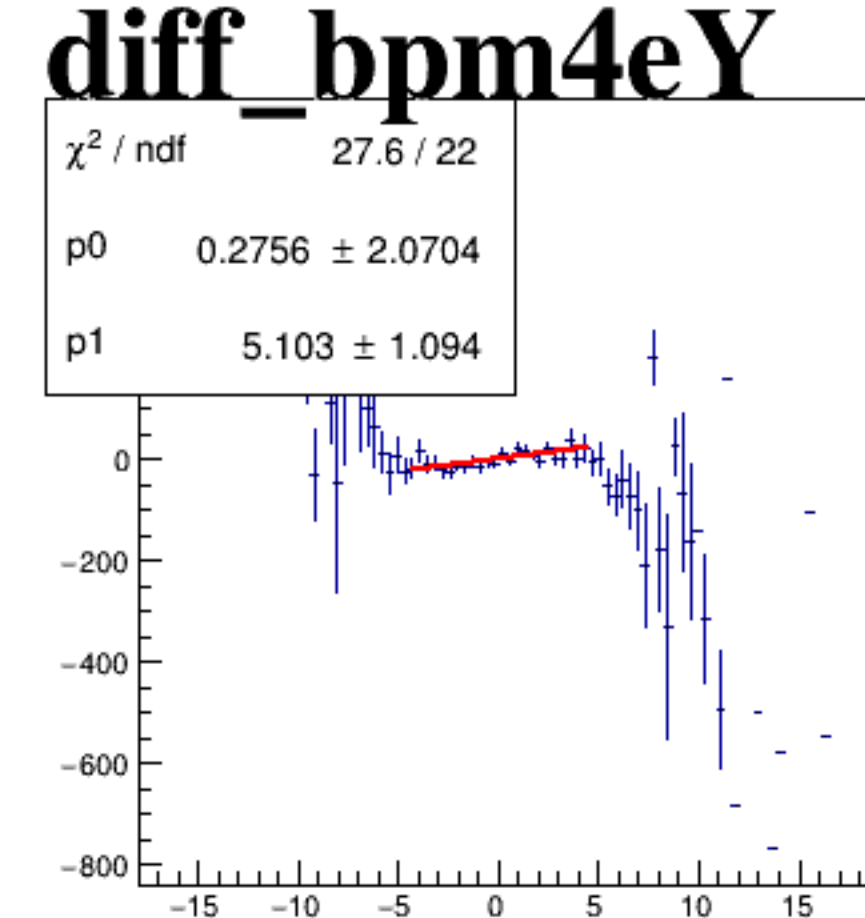
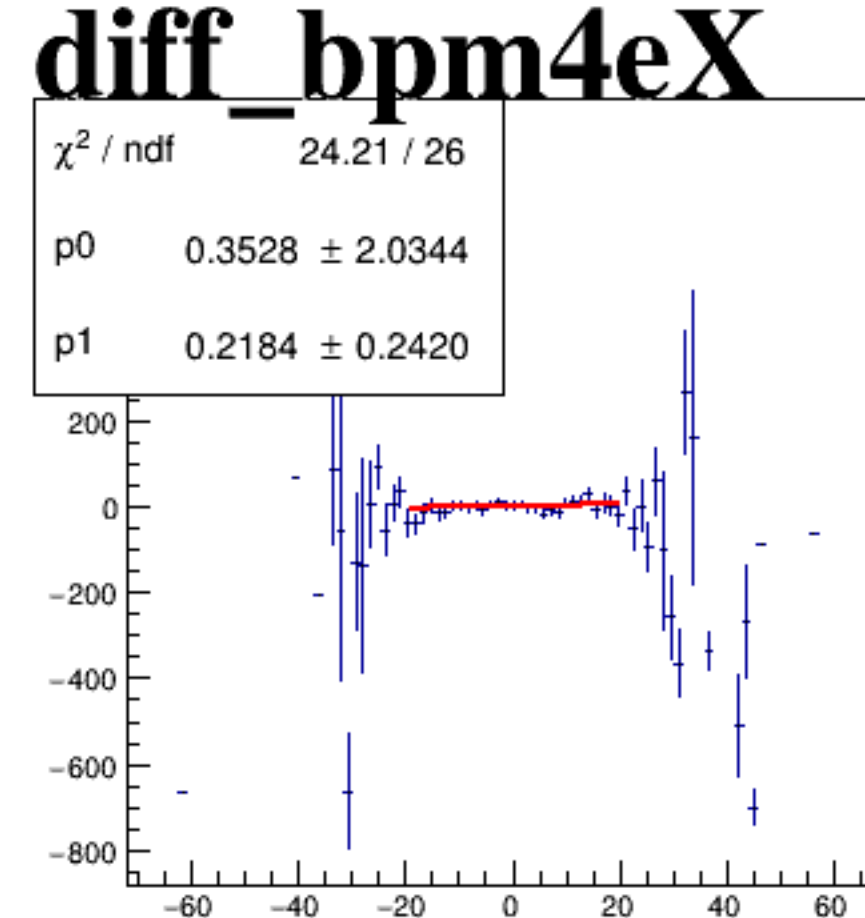
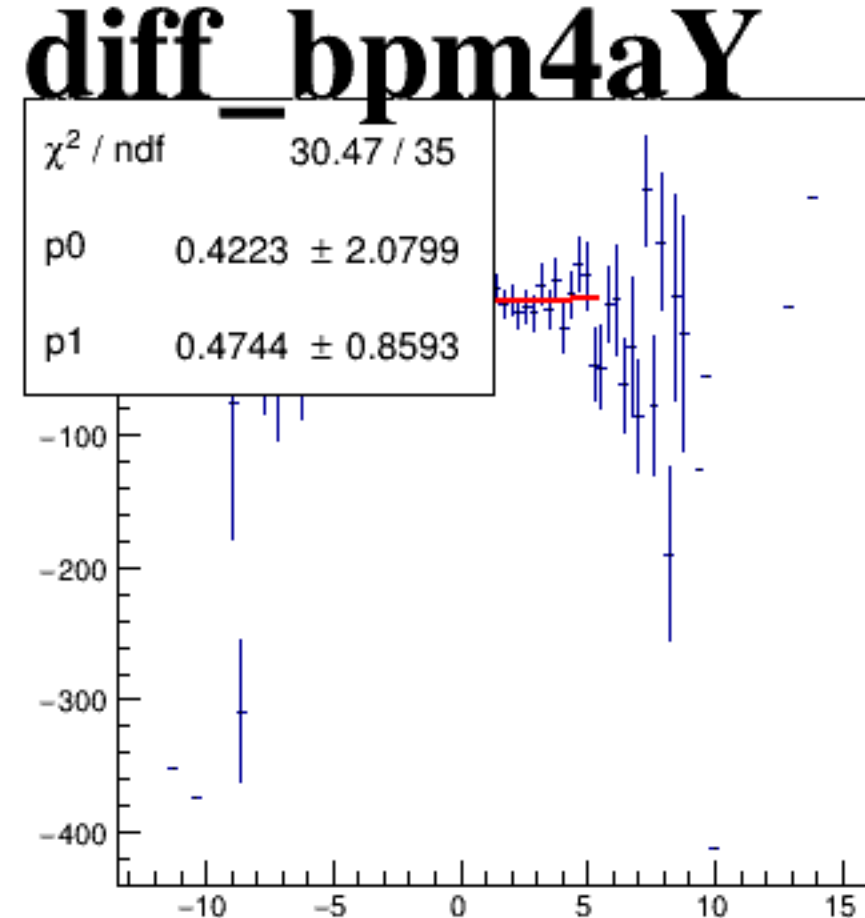
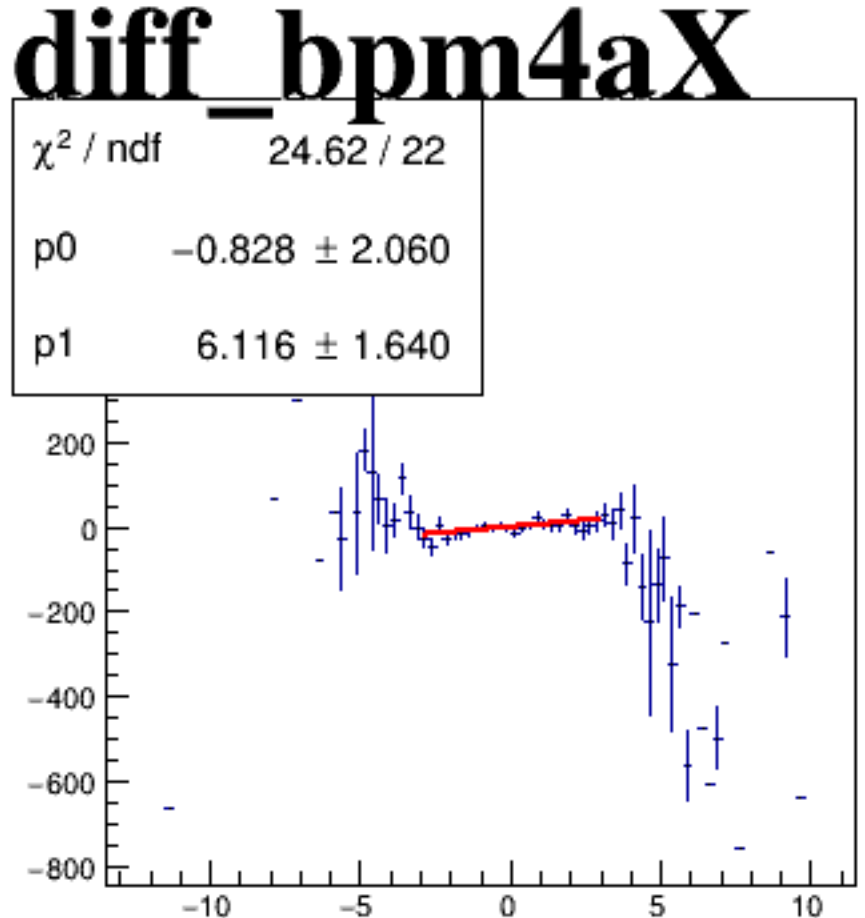
asym_sam5



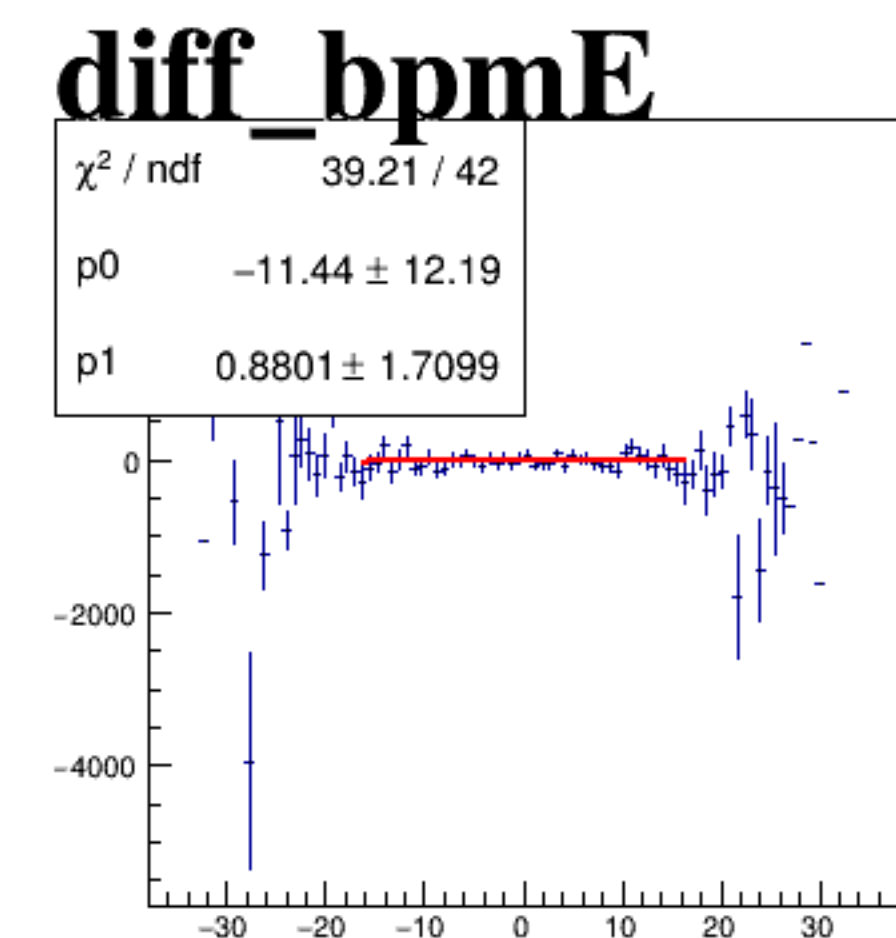
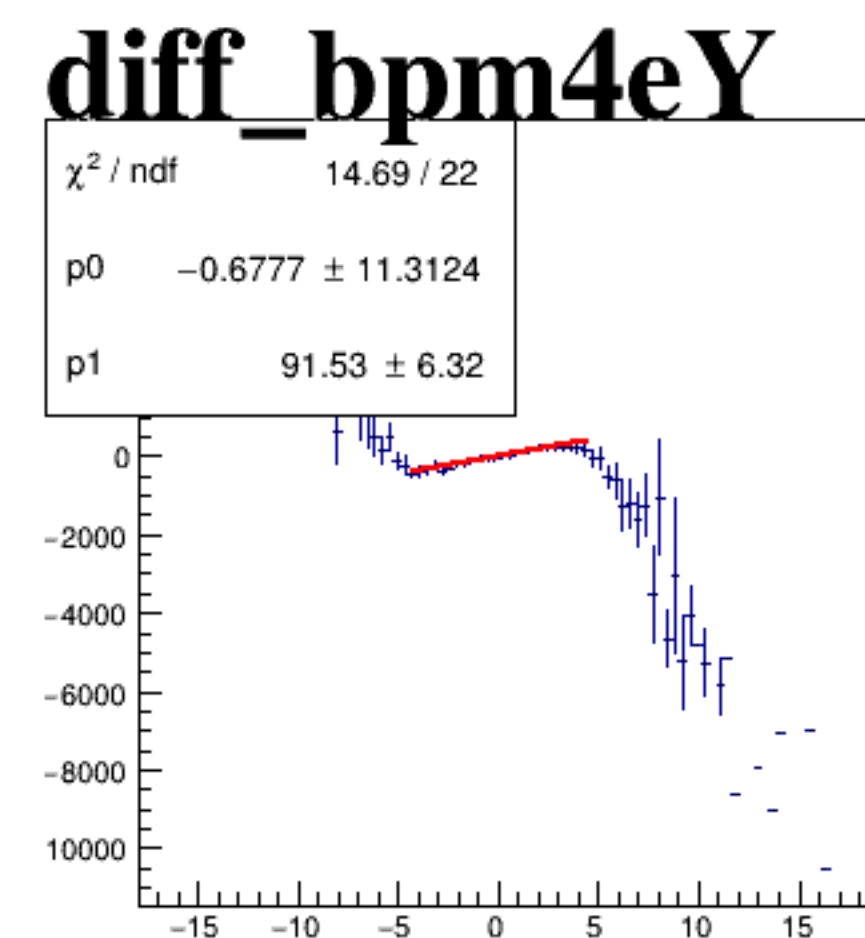
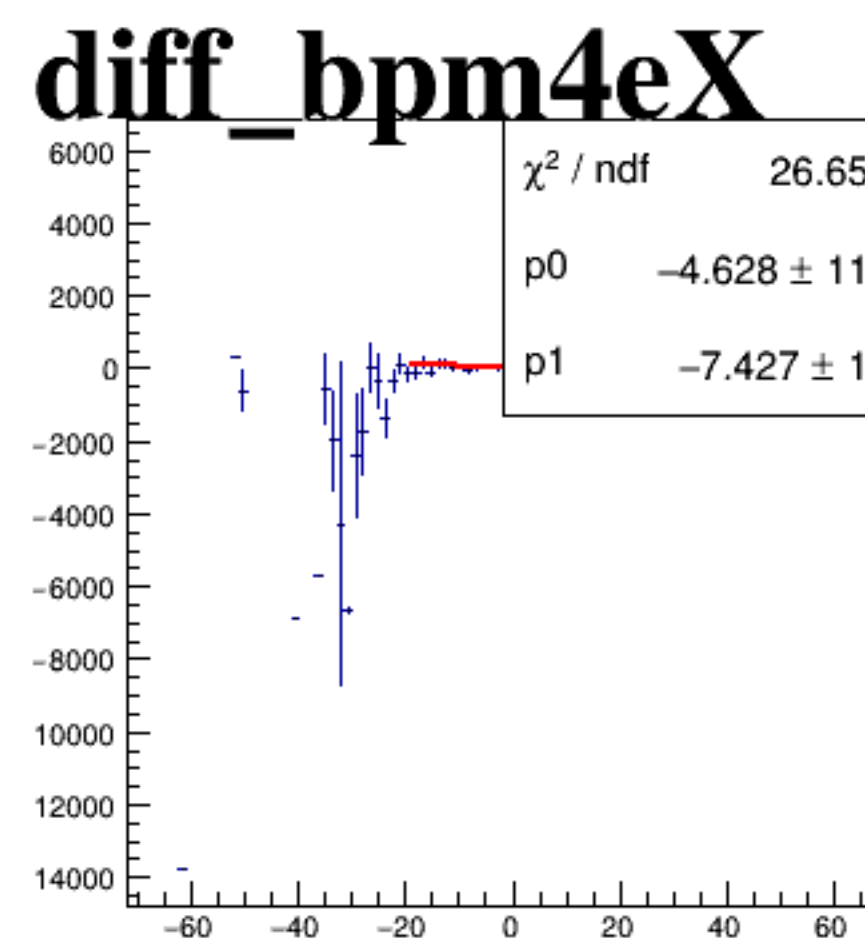
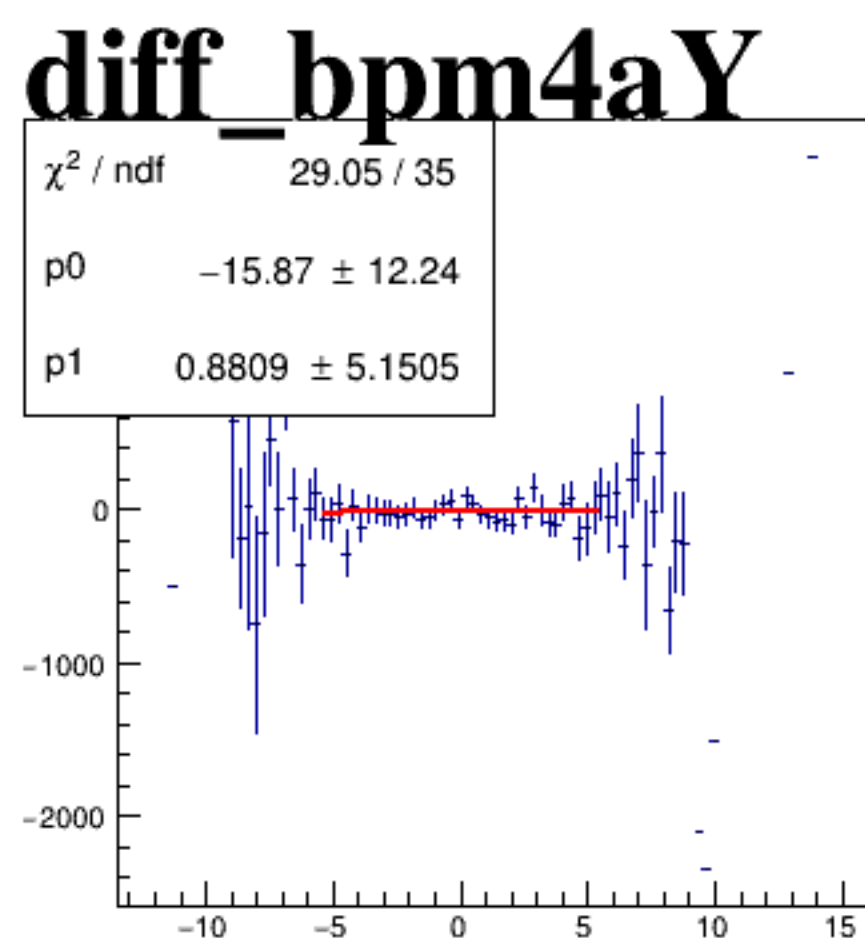
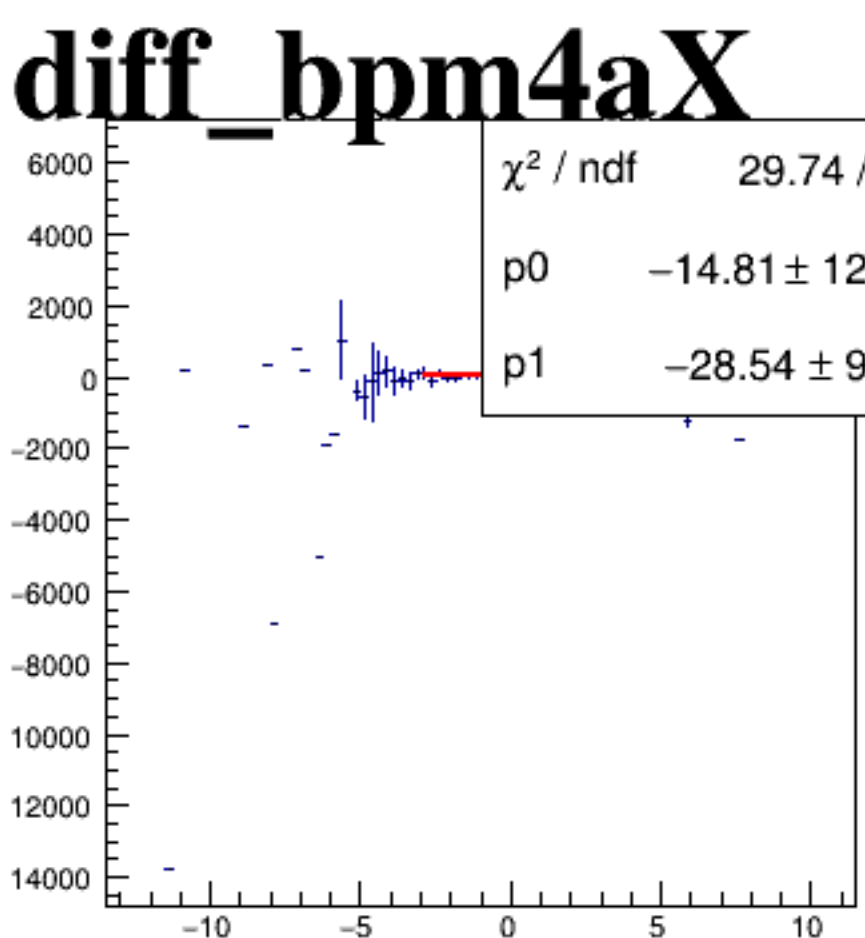
asym_sam7



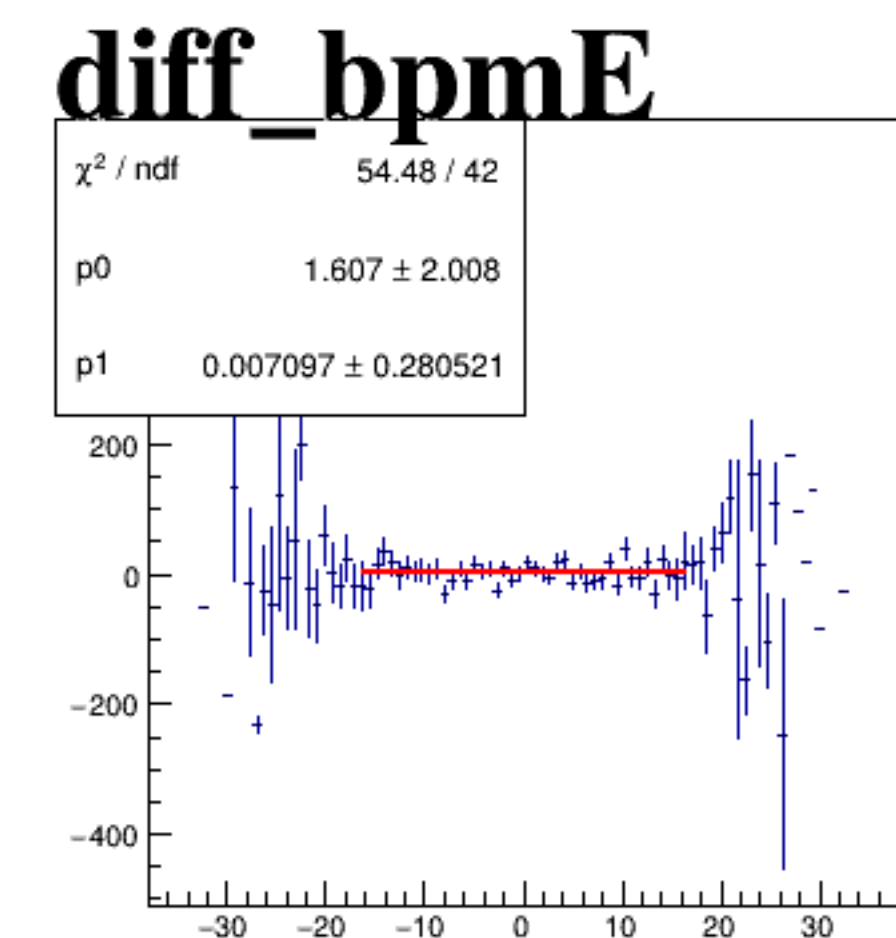
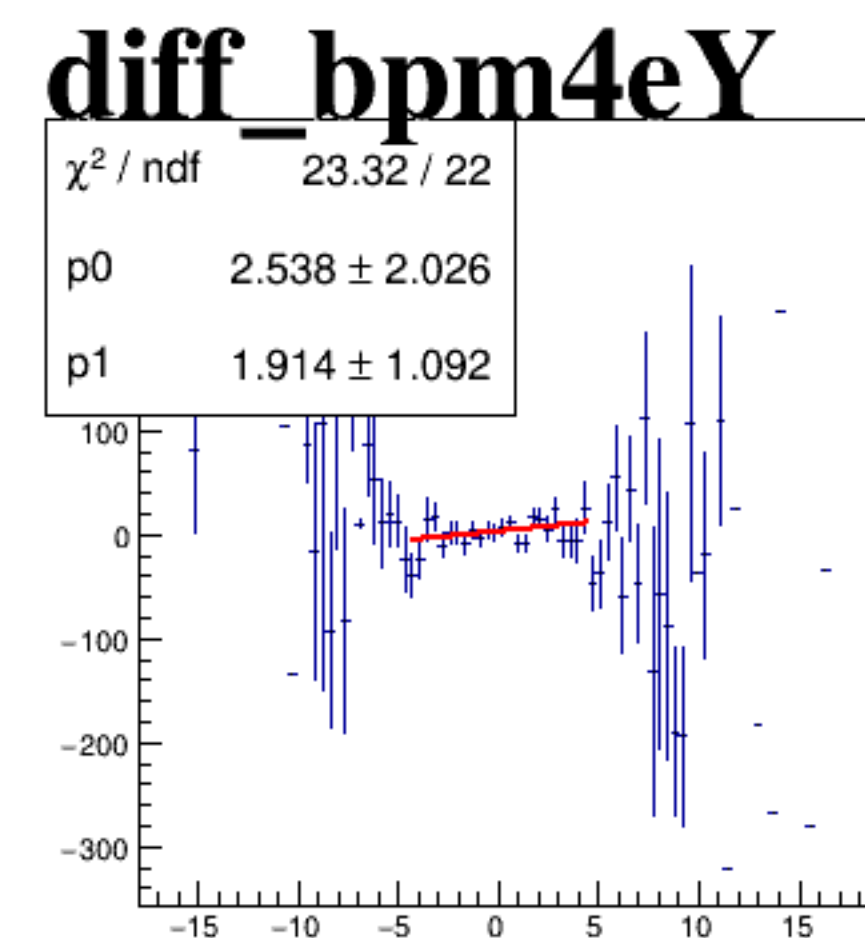
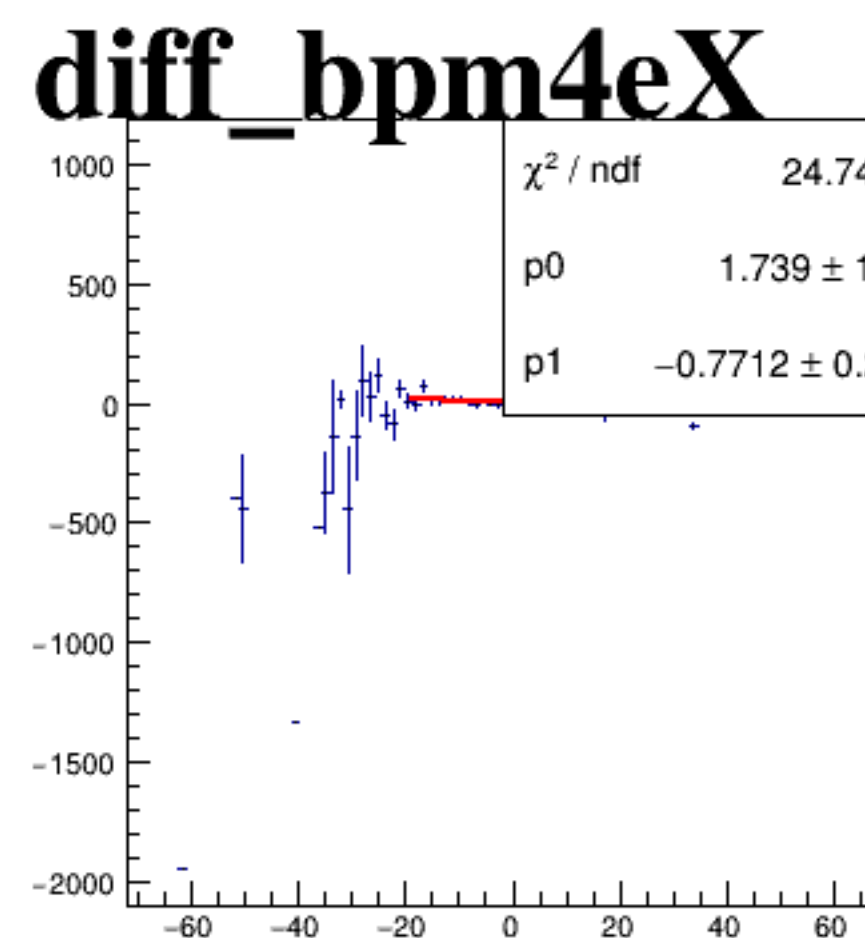
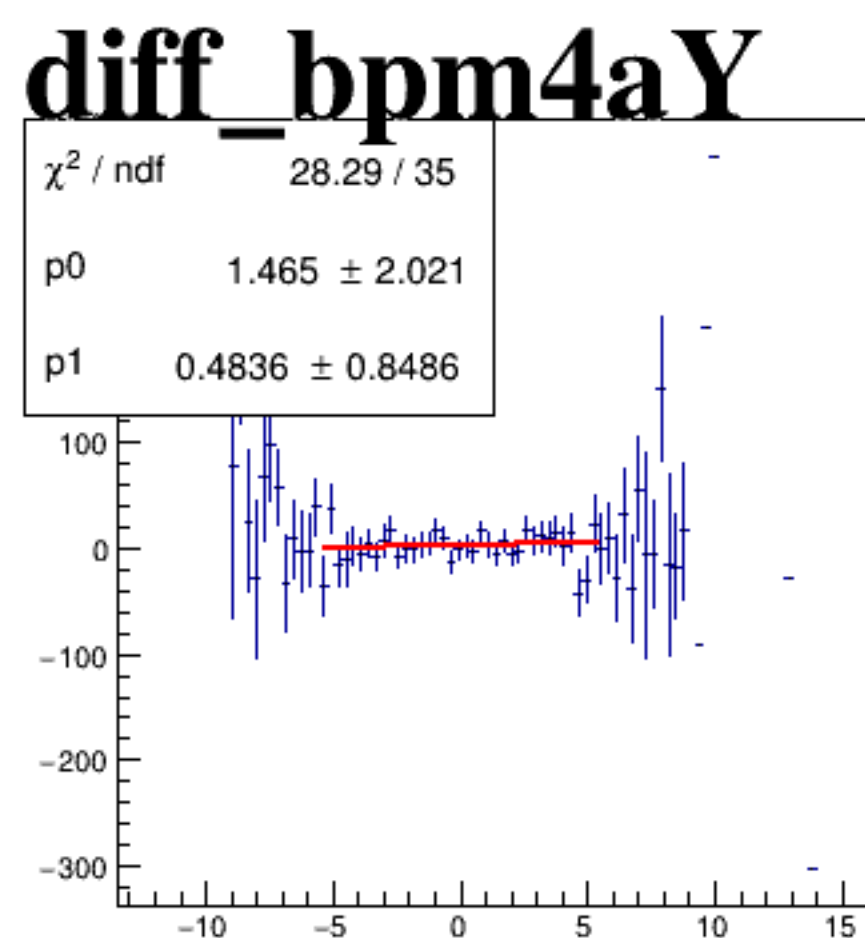
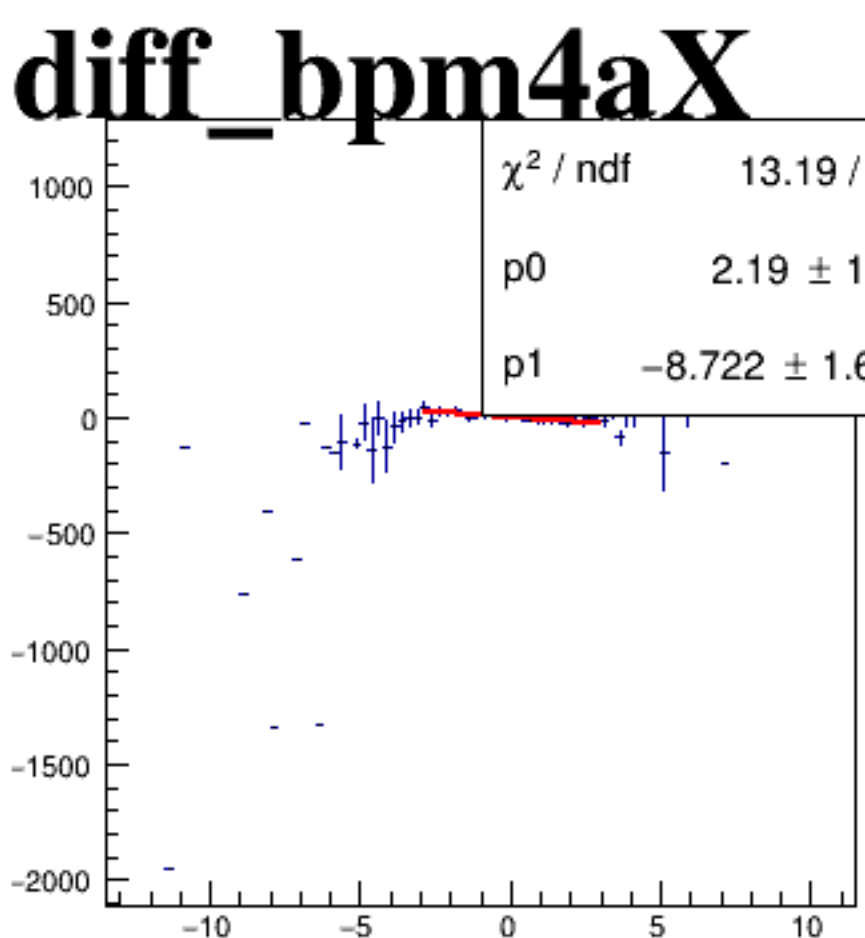
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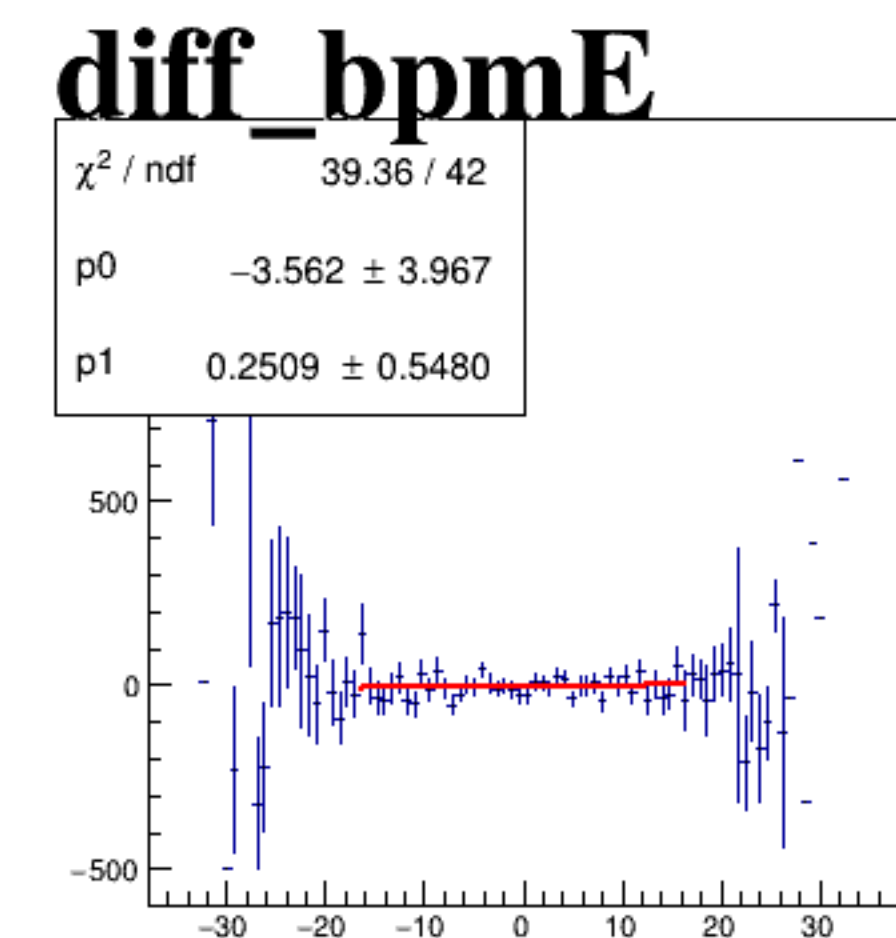
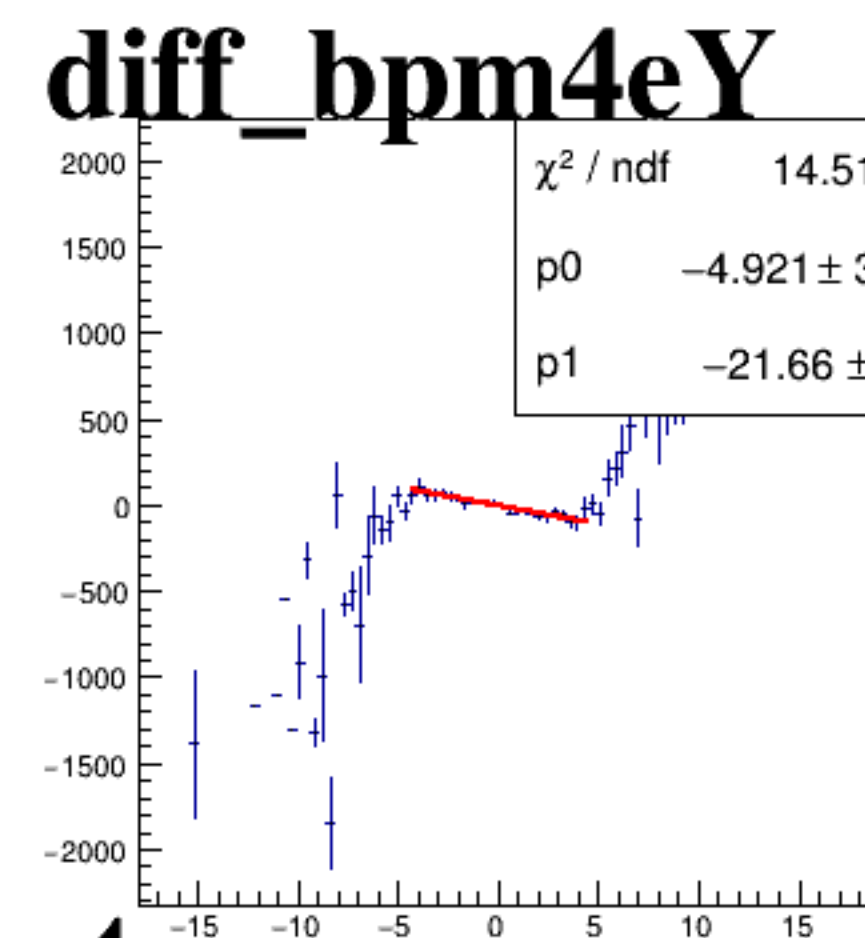
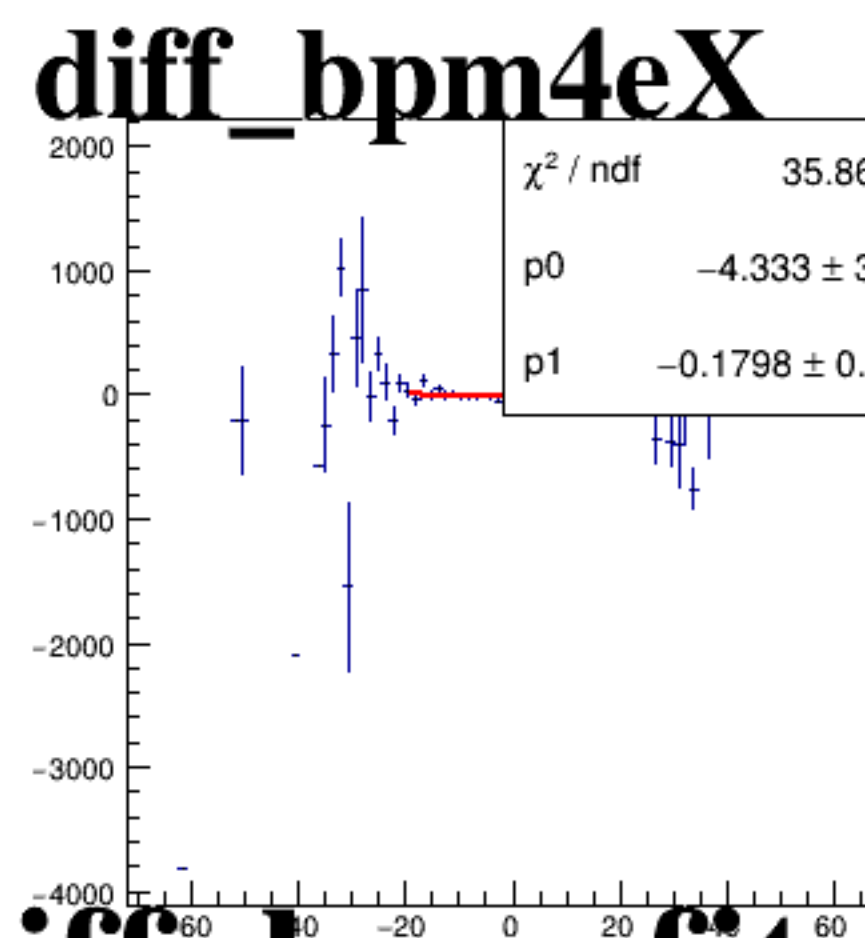
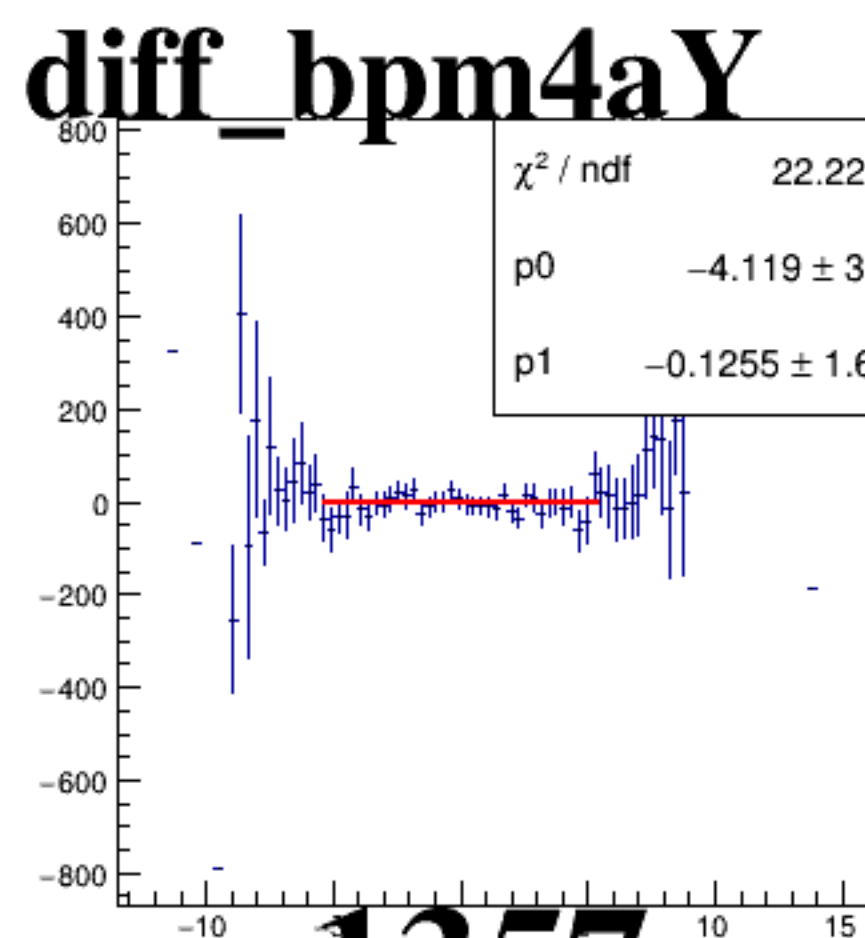
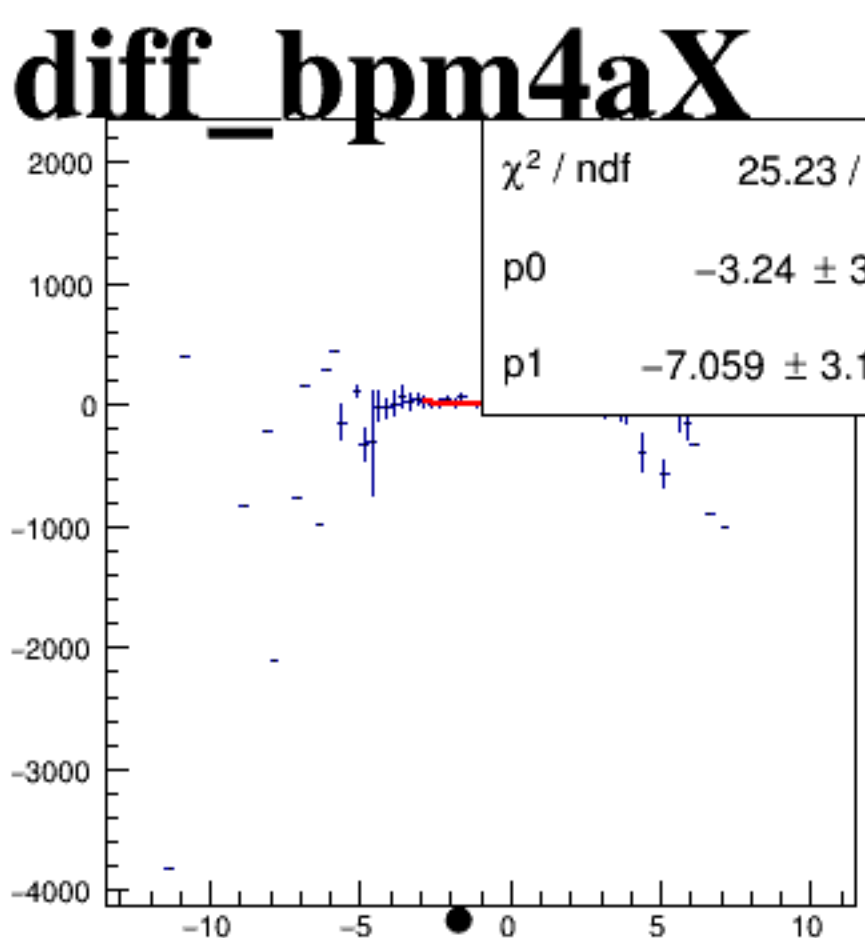
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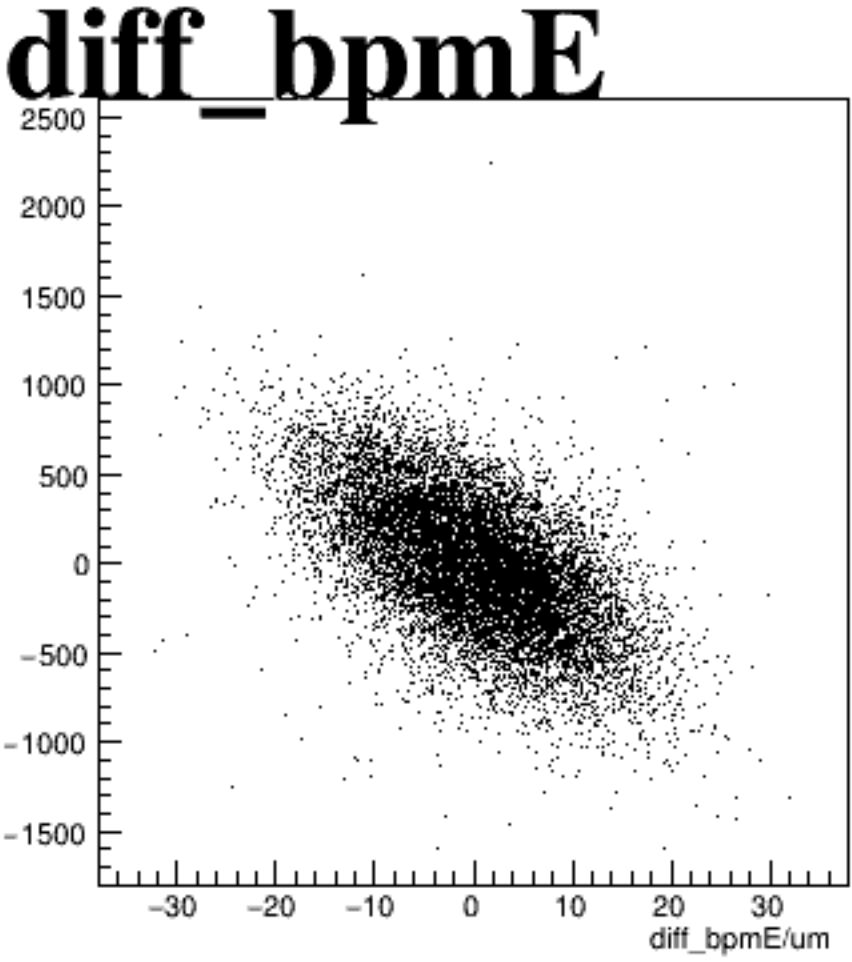
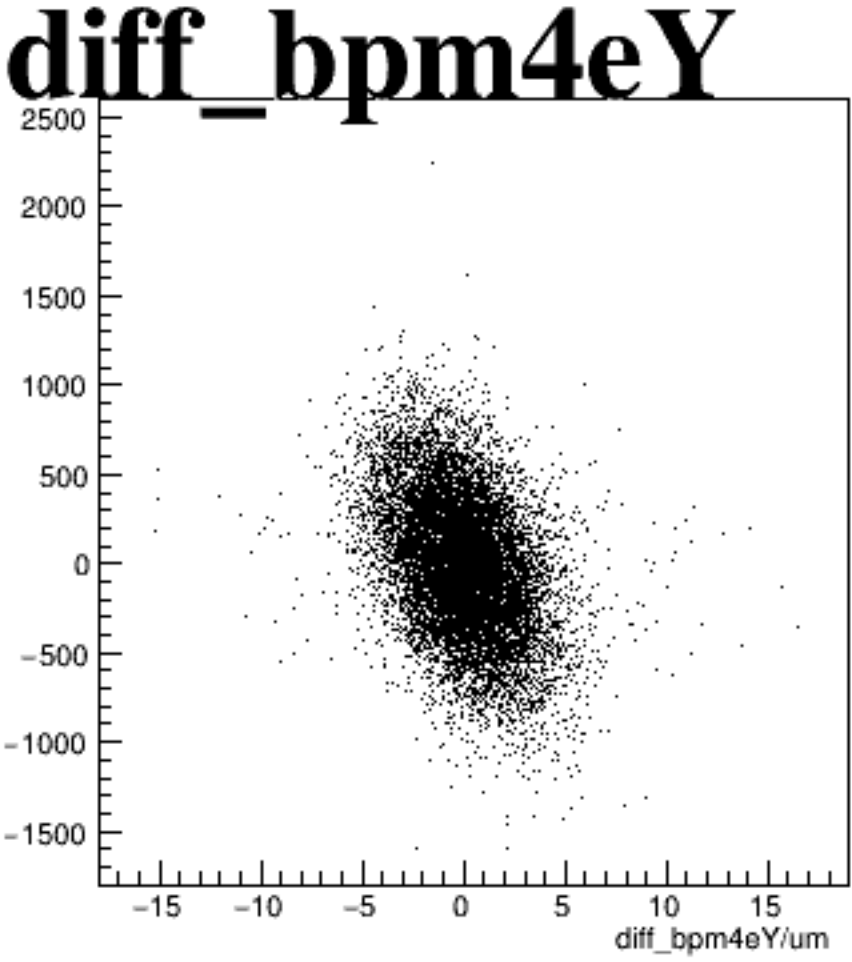
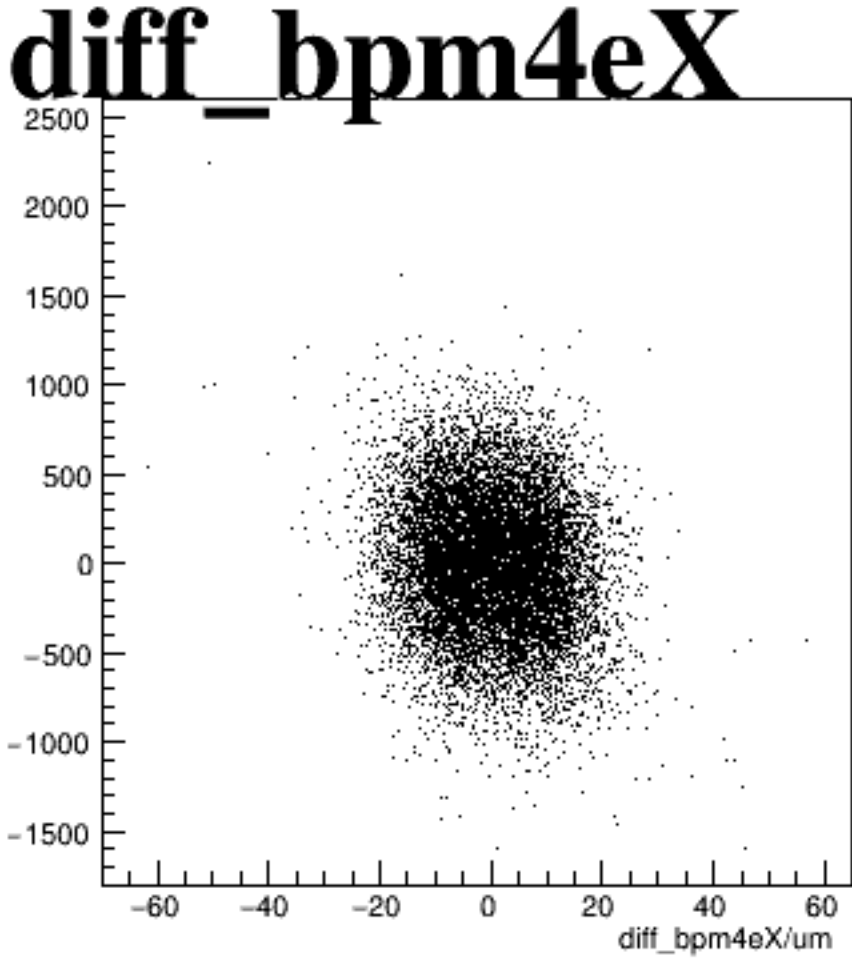
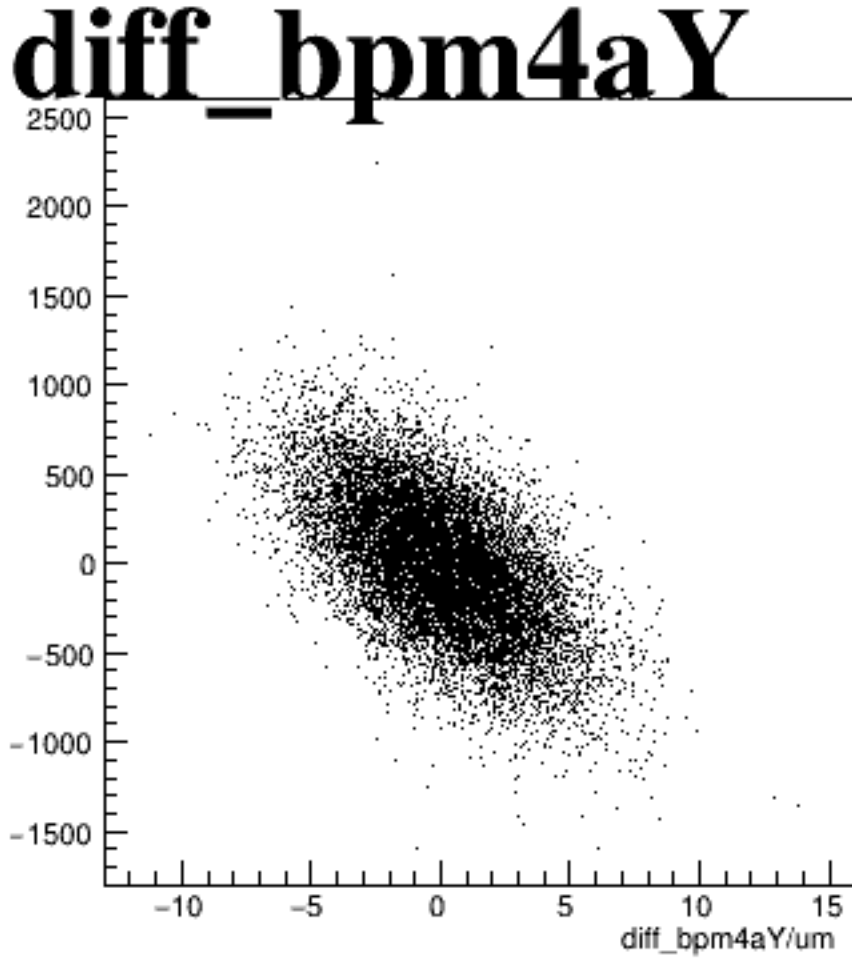
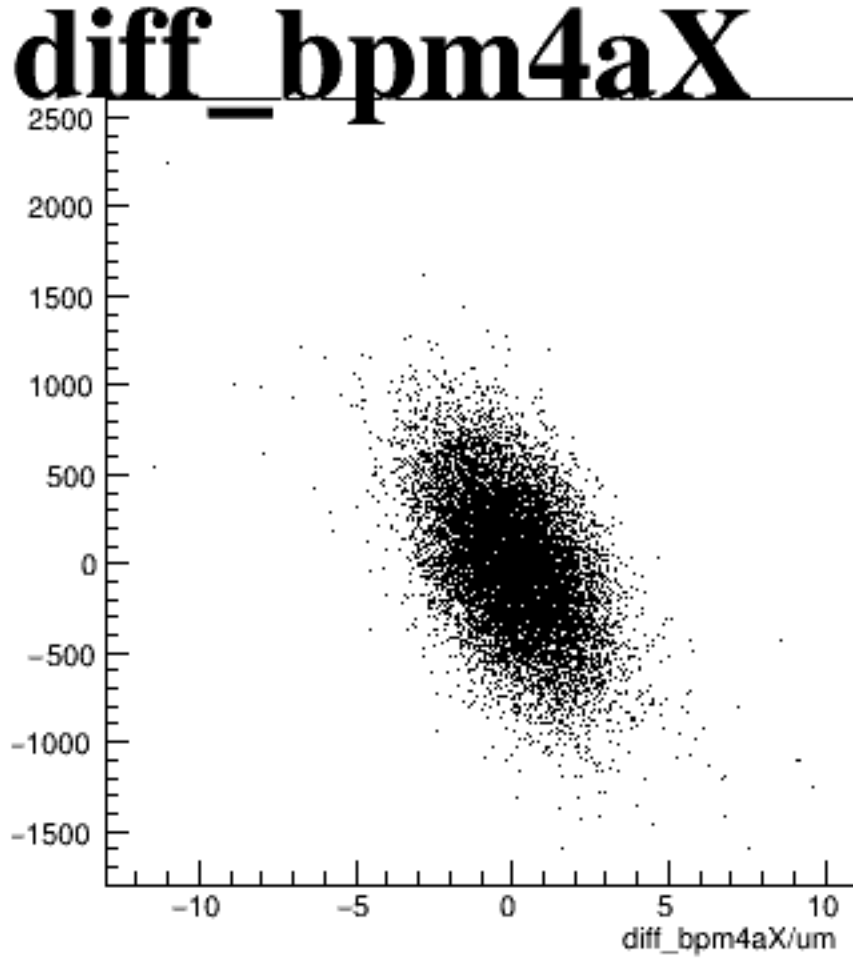
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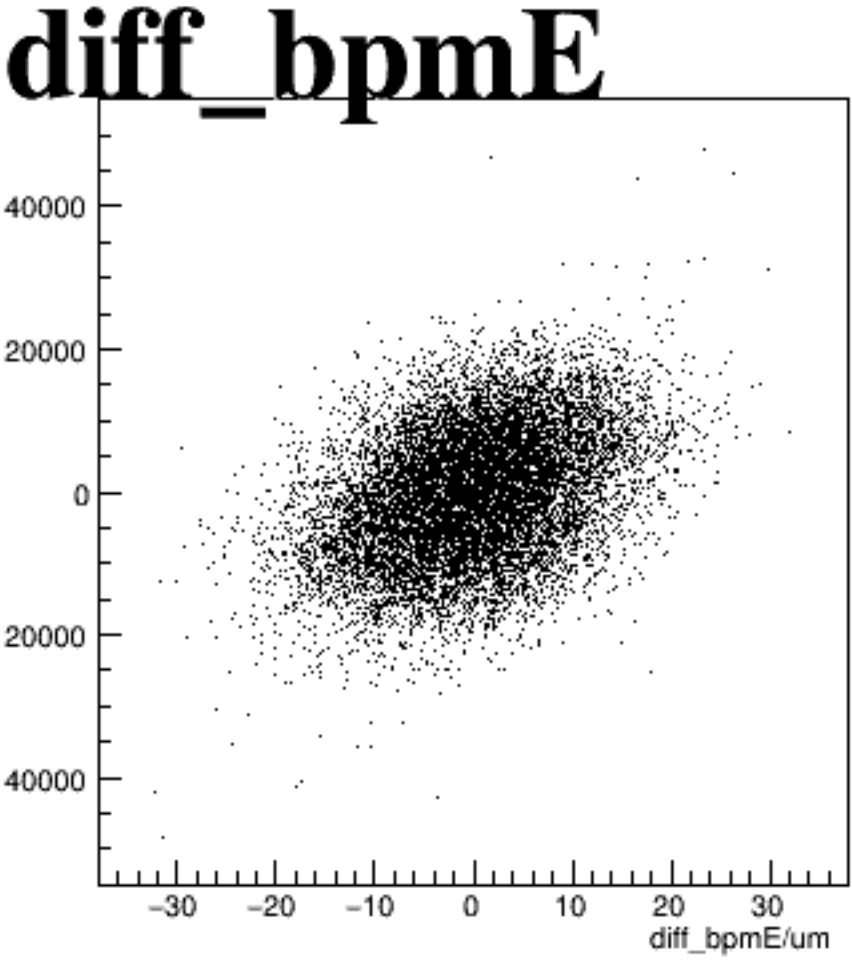
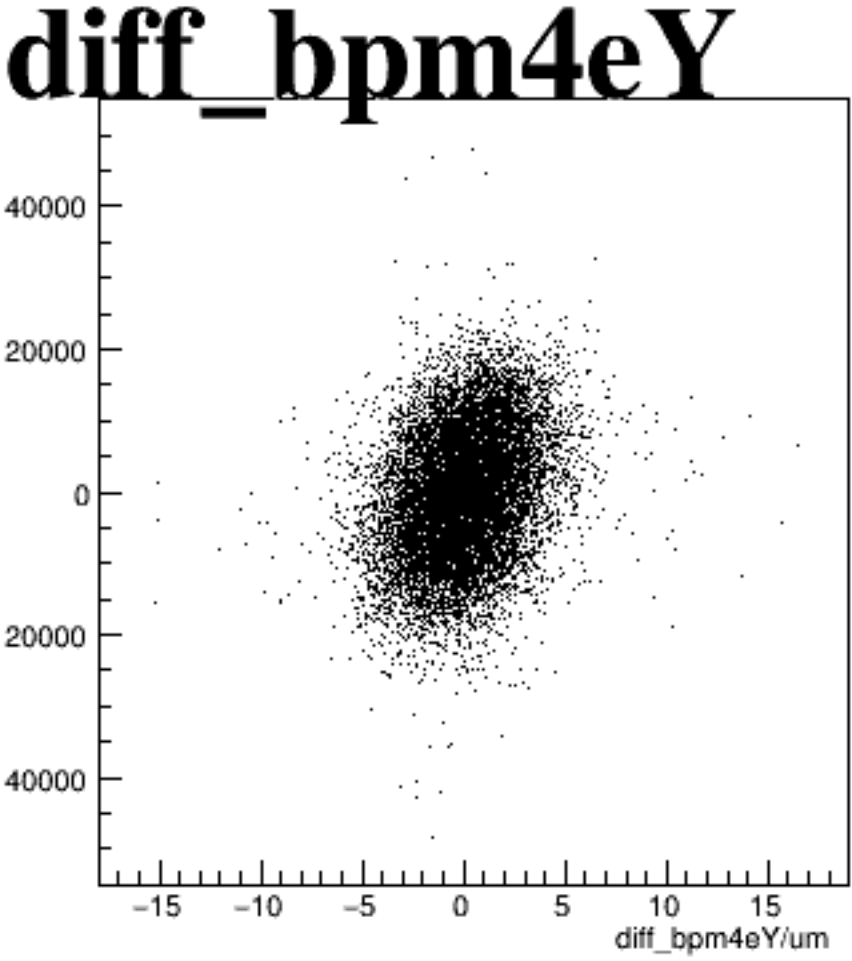
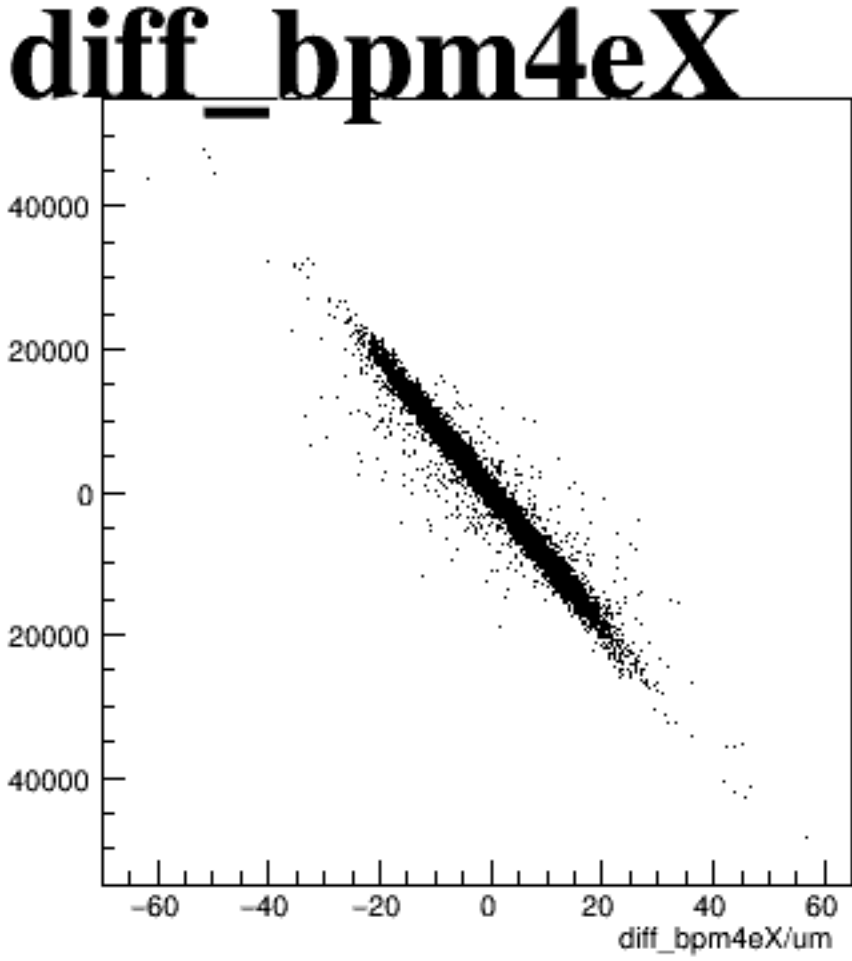
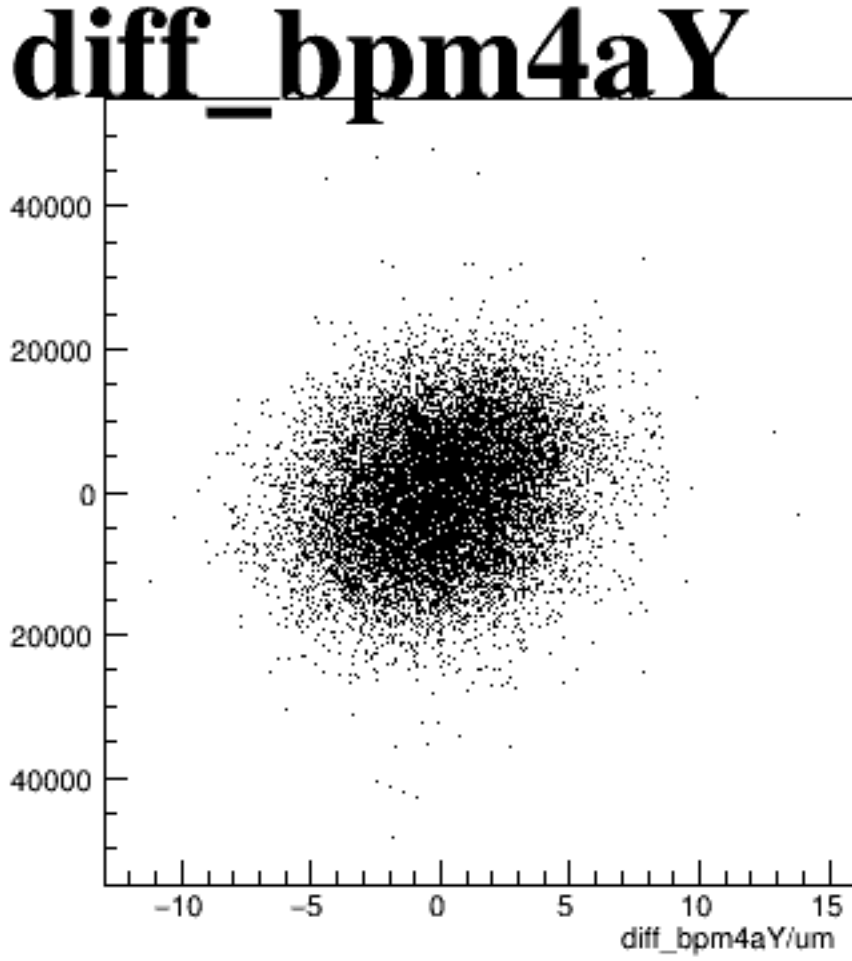
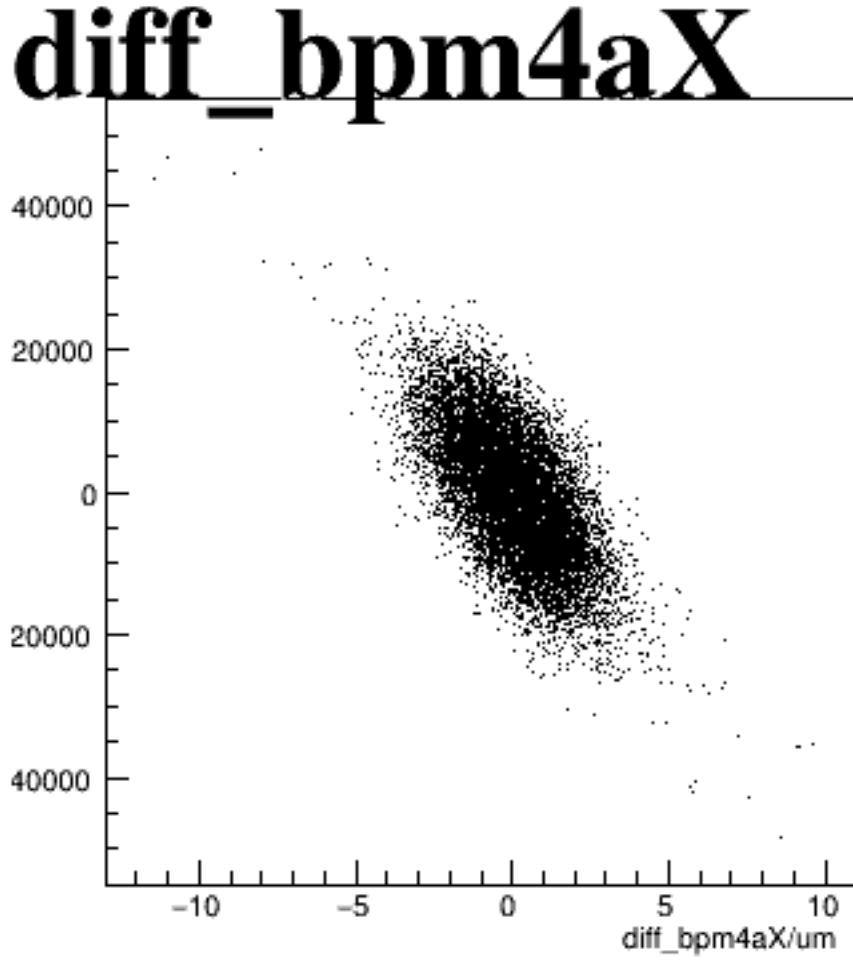
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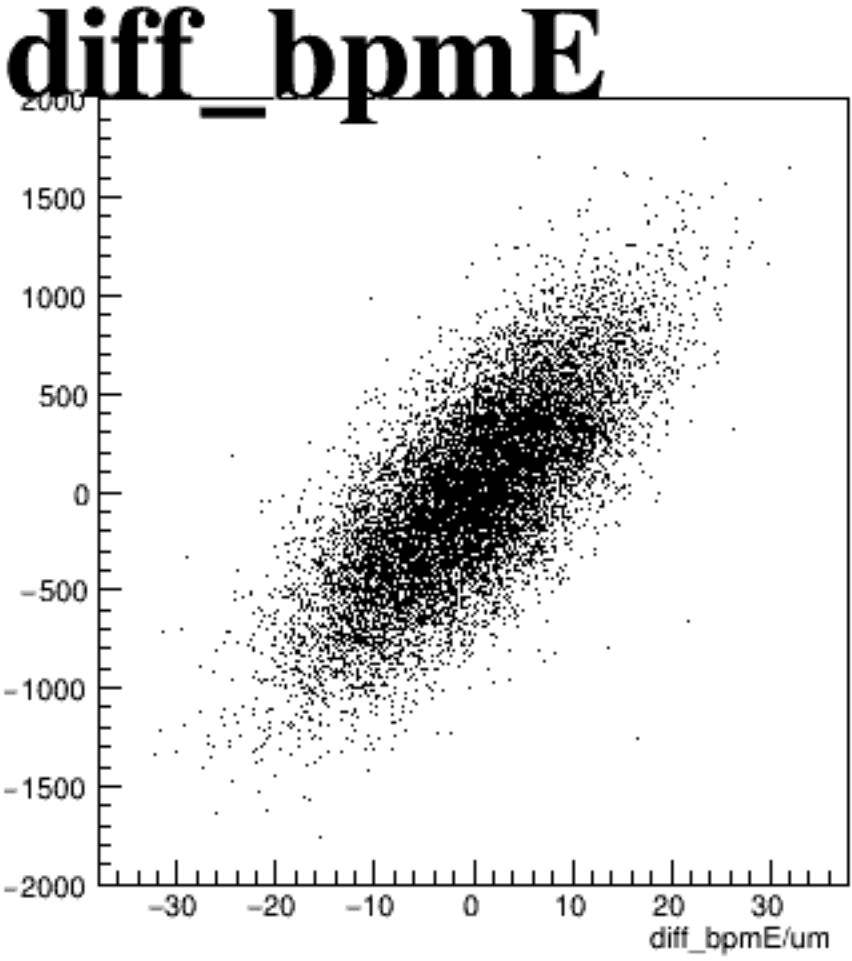
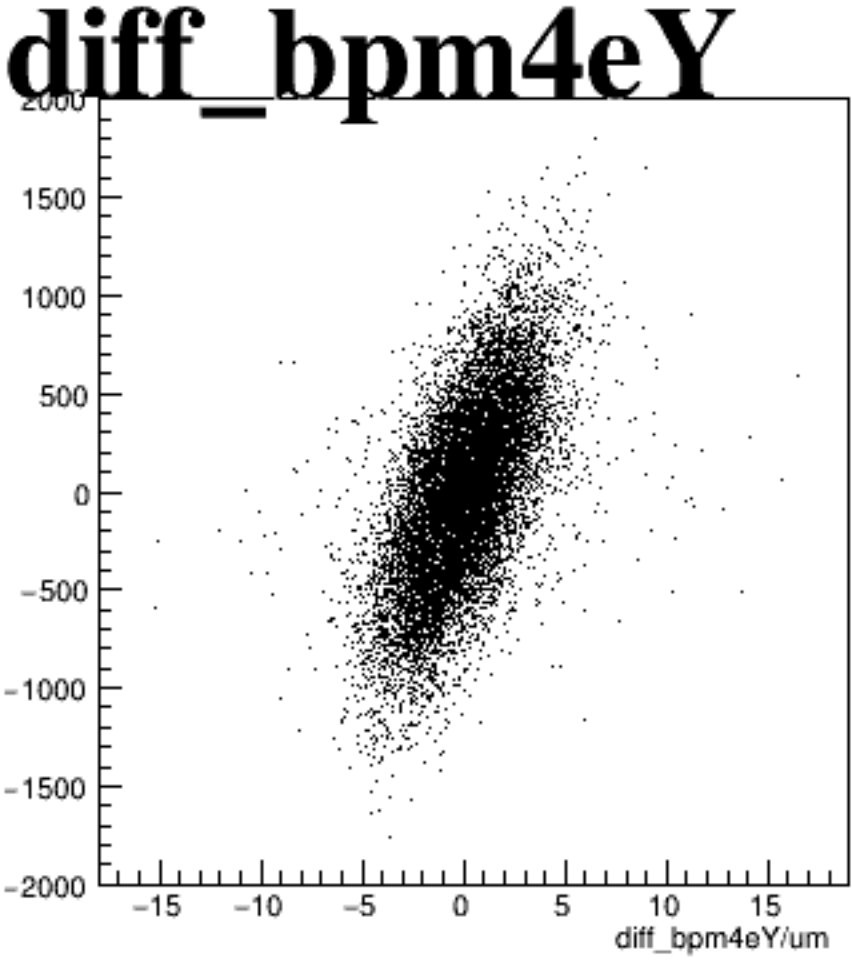
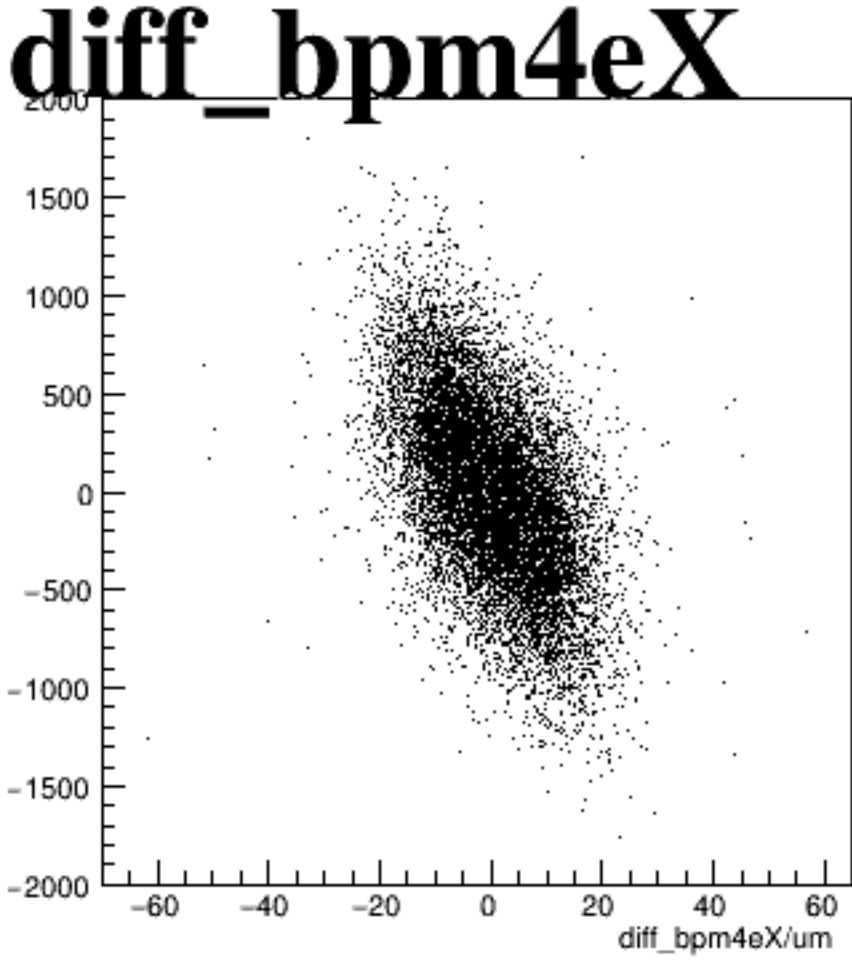
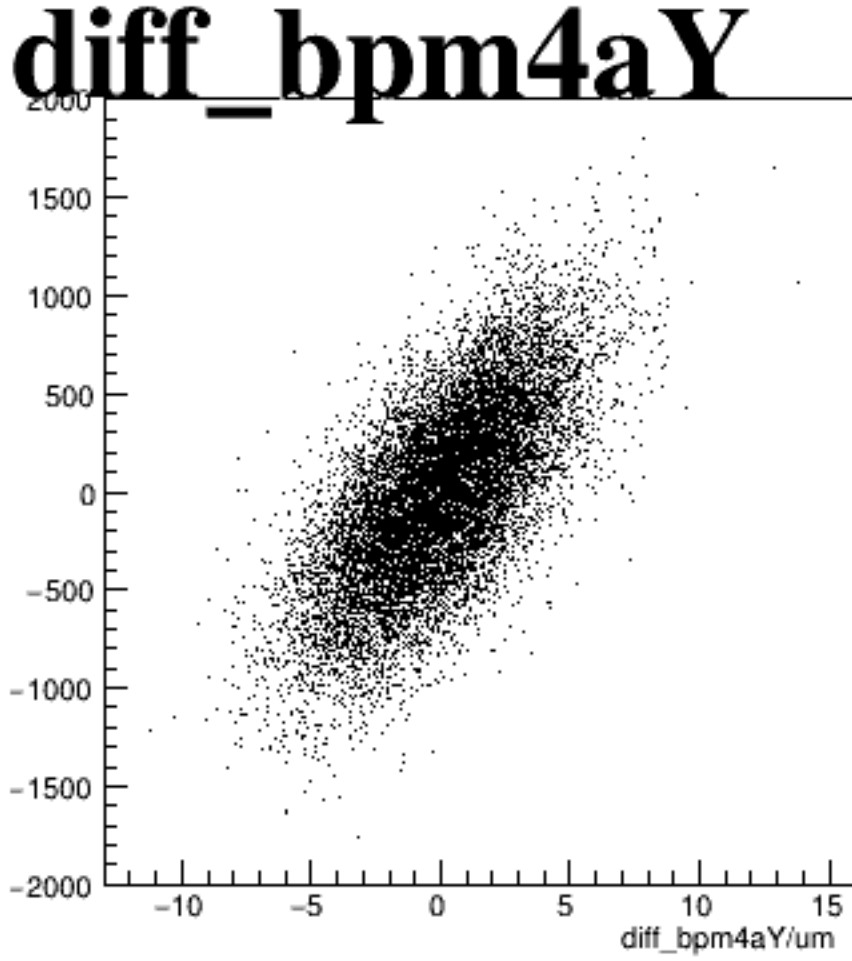
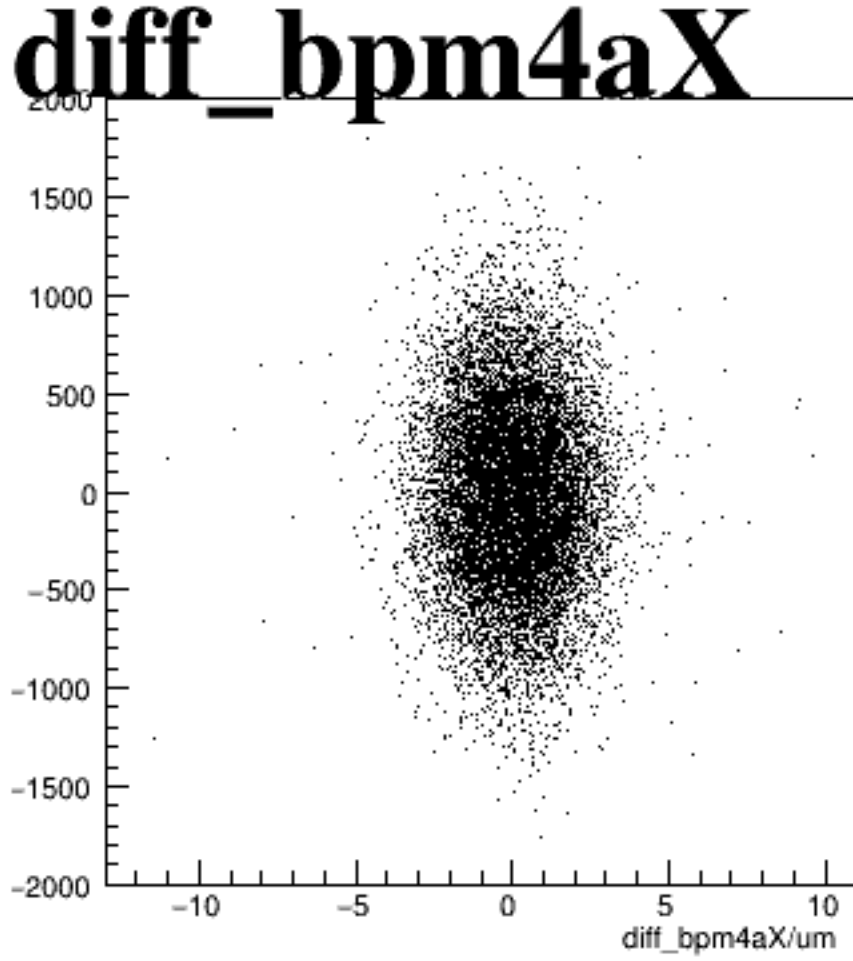
asym_sam1



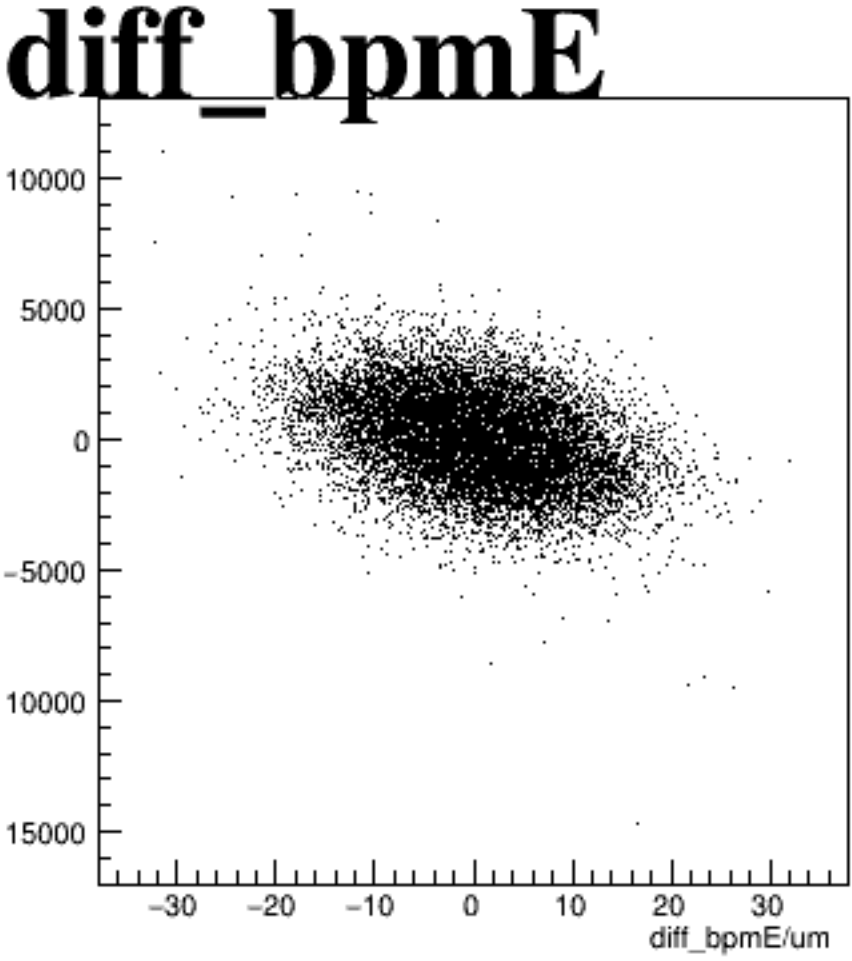
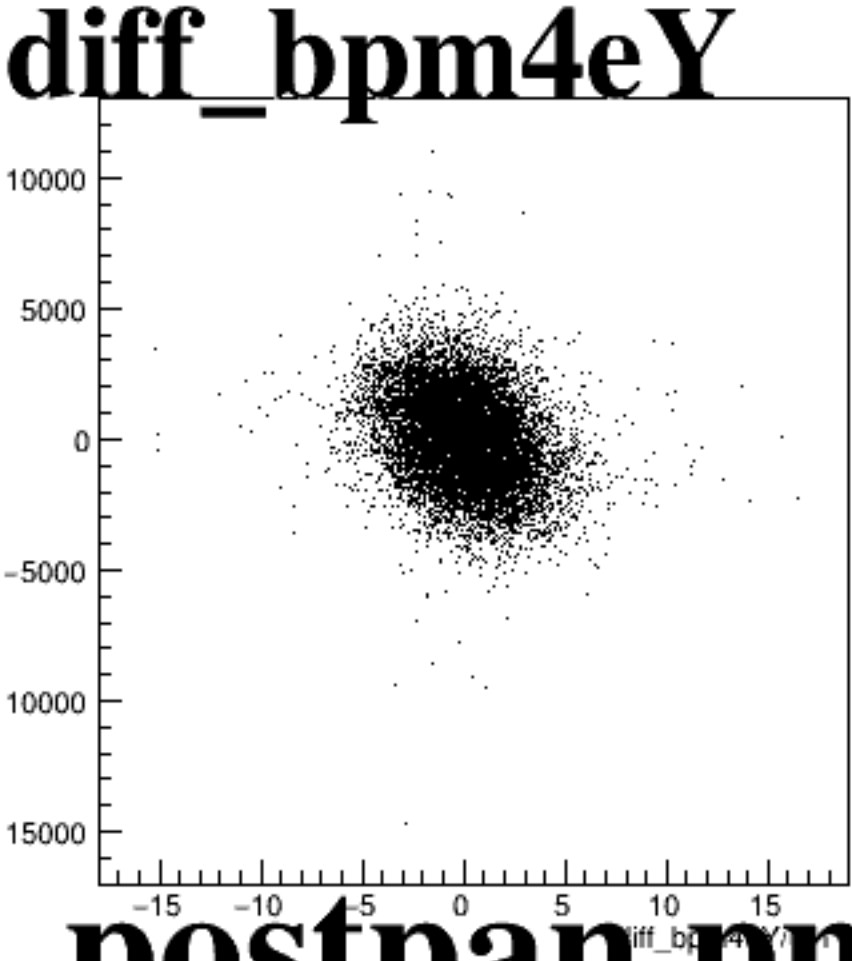
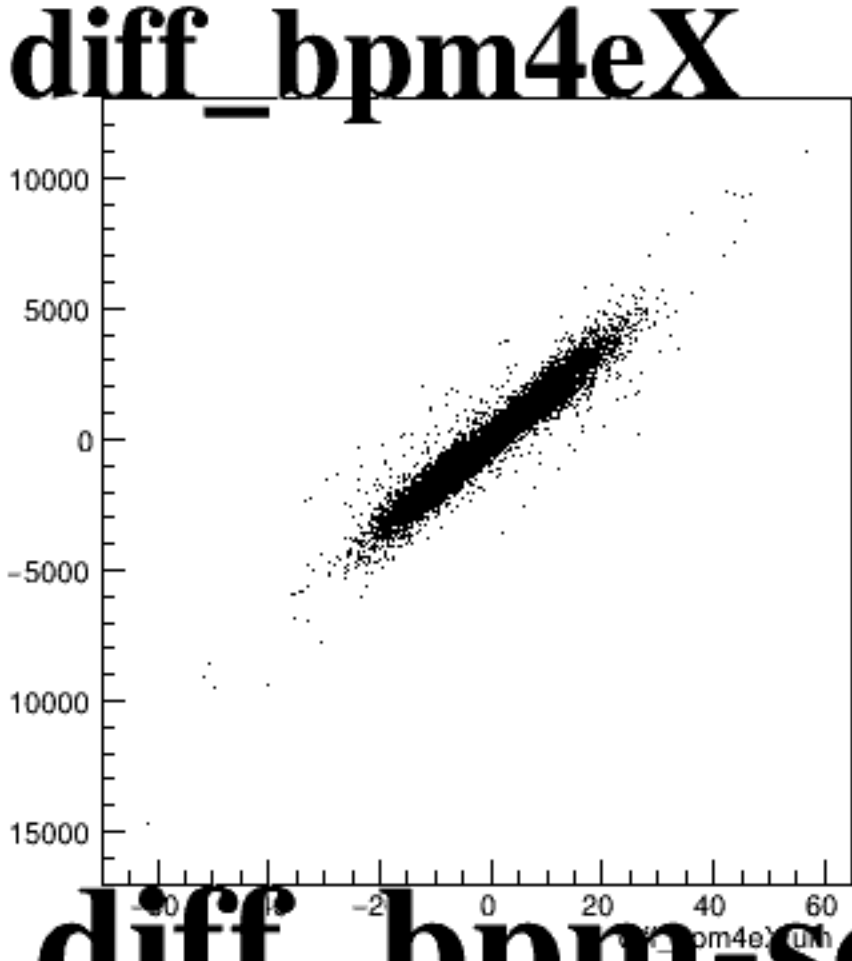
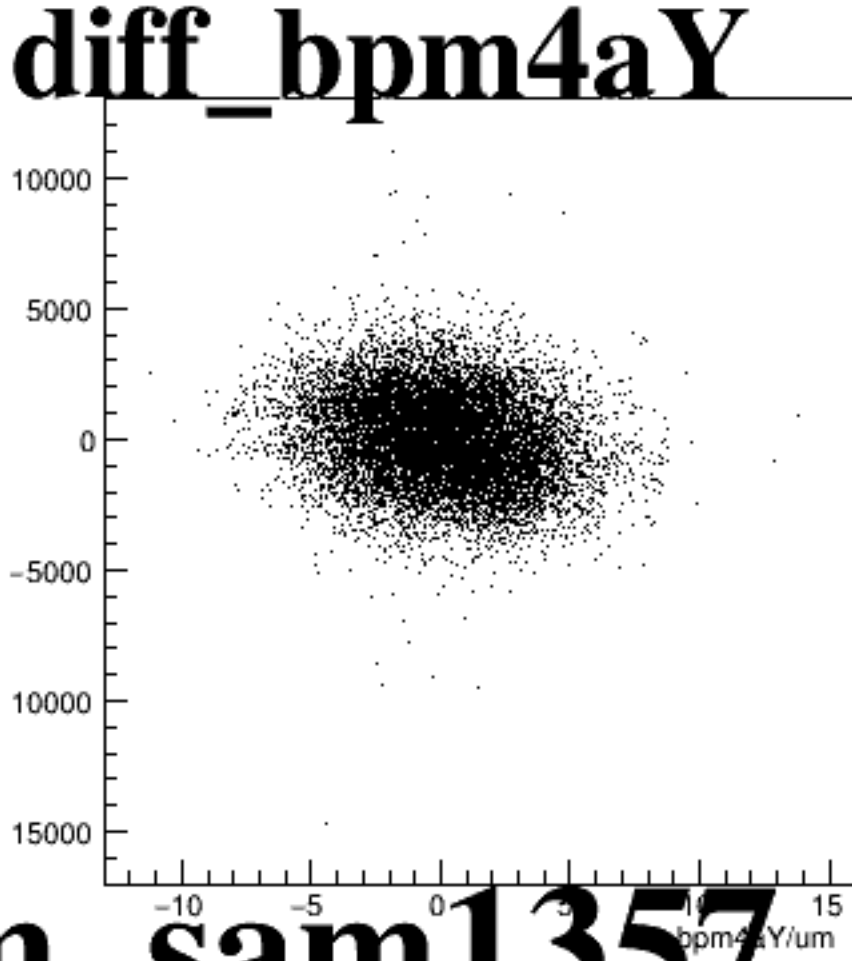
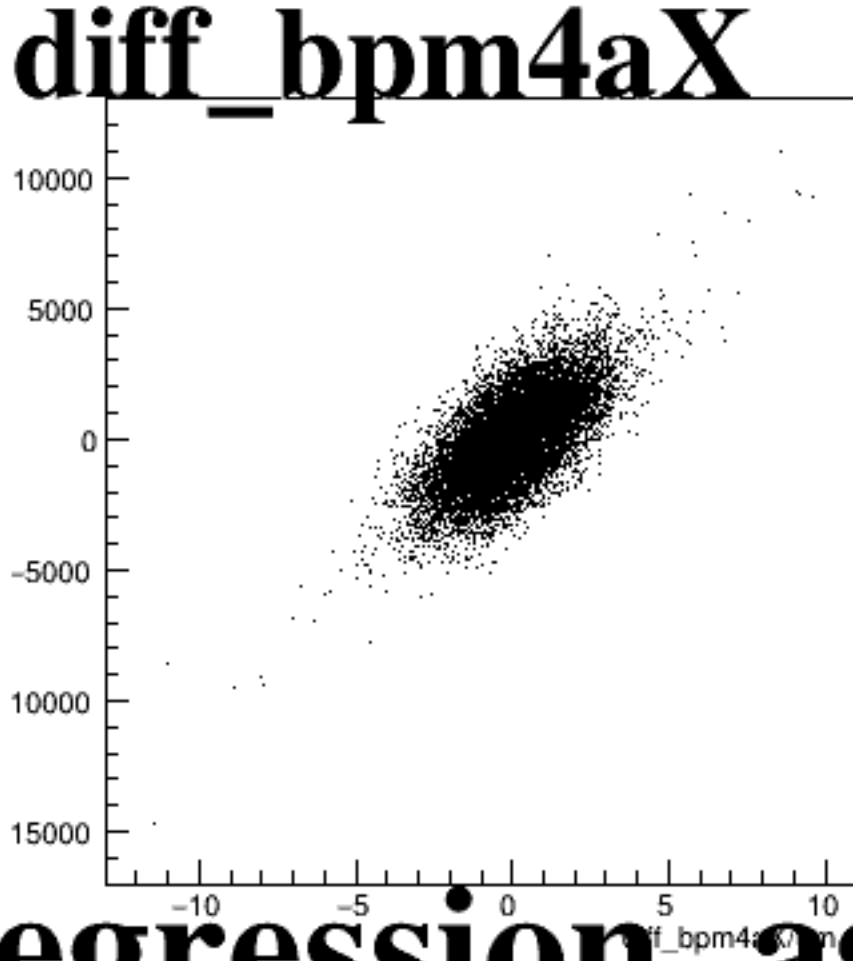
asym_sam3



asym_sam5



asym_sam7



The figure consists of five scatter plots arranged horizontally, each showing the difference in BPM (diff_bpm) versus the difference in position (diff_pos) for a specific BPM type. The y-axis for all plots is labeled 'diff_bpm' and ranges from -1000 to 1000. The x-axis for all plots is labeled 'diff_pos' and ranges from -10 to 10. The plots are titled as follows:

- diff_bpm4aX**: The x-axis is labeled 'diff_pos4aX/um'.
- diff_bpm4aY**: The x-axis is labeled 'diff_pos4aY/um'.
- diff_bpm4eX**: The x-axis is labeled 'diff_pos4eX/um'.
- diff_bpm4eY**: The x-axis is labeled 'diff_pos4eY/um'.
- diff_bpmE**: The x-axis is labeled 'diff_posE/um'.

In all plots, the data points are tightly clustered around the origin (0,0), indicating that the BPM difference is small compared to the position difference. The density of points is highest near the origin and decreases as the position difference increases.

The figure displays five scatter plots comparing the difference between BPM4 and BPM5 for various parameters. The plots are titled: **diff_bpm4aX**, **diff_bpm4aY**, **diff_bpm4eX**, **diff_bpm4eY**, and **diff_bpmE**. Each plot shows a dense cloud of points centered around zero, indicating good agreement between the two models. The x-axis for all plots is labeled **diff_bpm4/um** and the y-axis is labeled **diff_bpm5/um**. The x-axis ranges are: -10 to 10 for aX, -10 to 15 for aY, -10 to 60 for eX, -15 to 15 for eY, and -30 to 30 for E. The y-axis ranges are: -4000 to 3000 for aX, -4000 to 3000 for aY, -4000 to 3000 for eX, -4000 to 3000 for eY, and -4000 to 3000 for E.