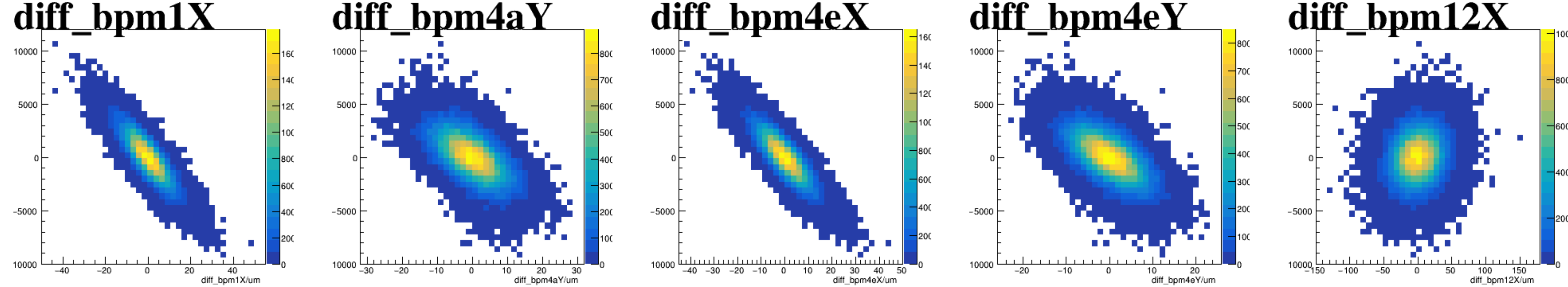
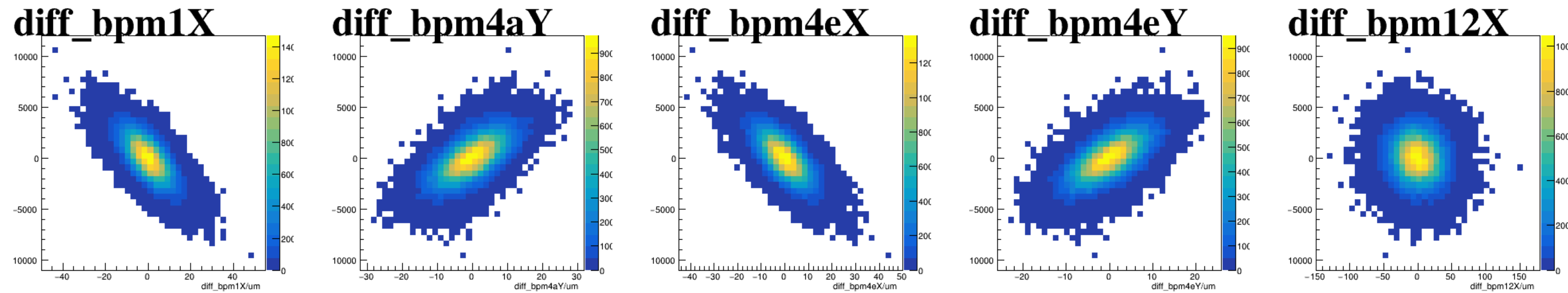


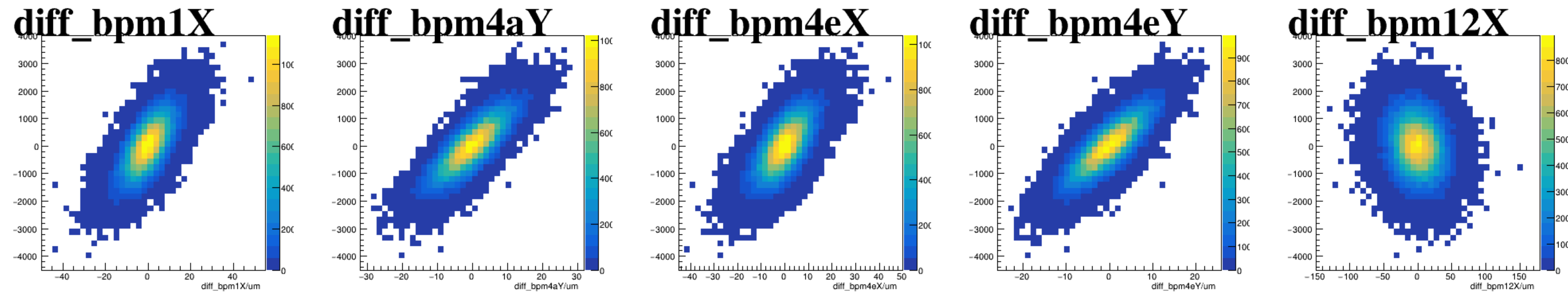
asym_sam2



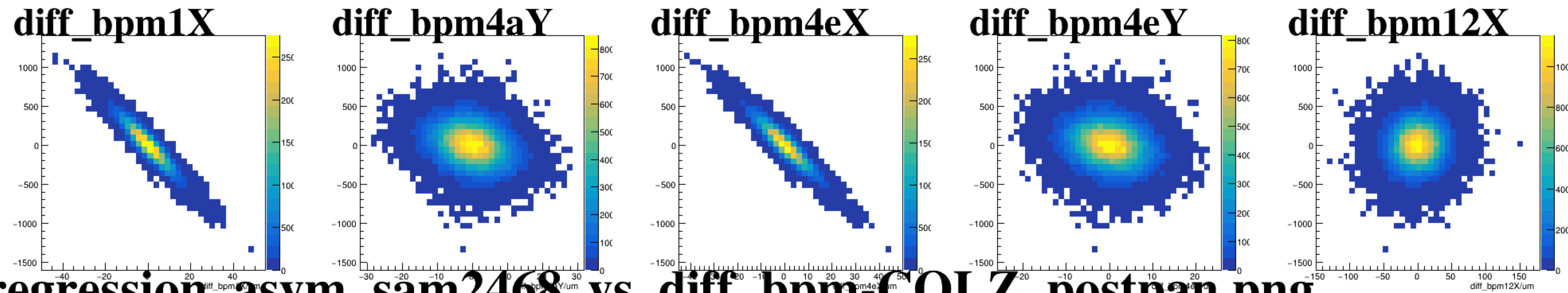
asym_sam4



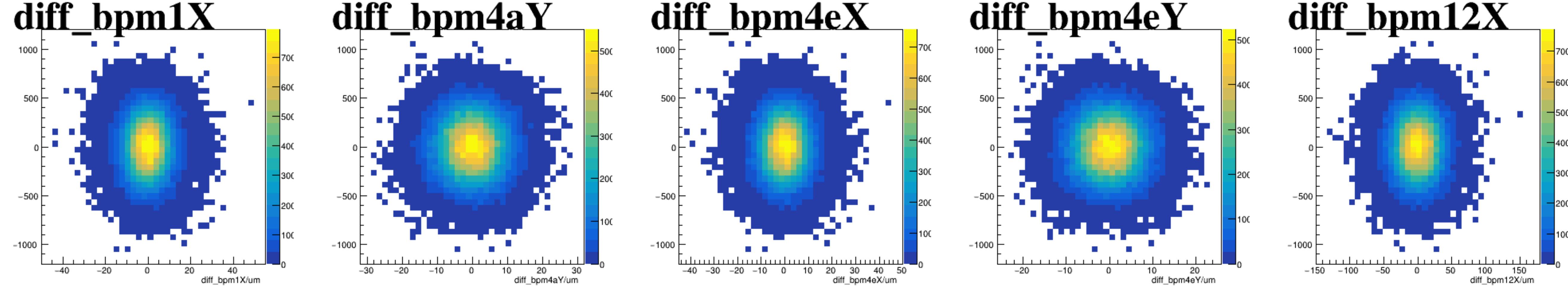
asym_sam6



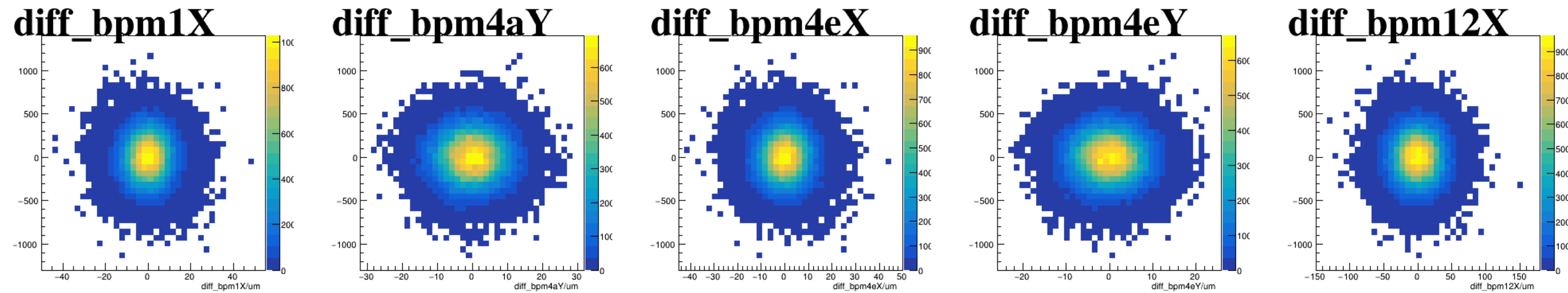
asym_sam8



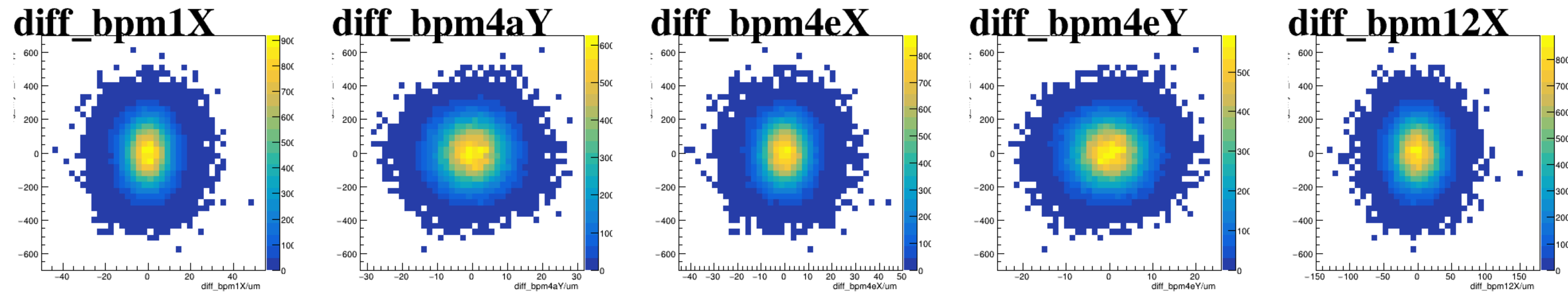
reg_asym_sam2



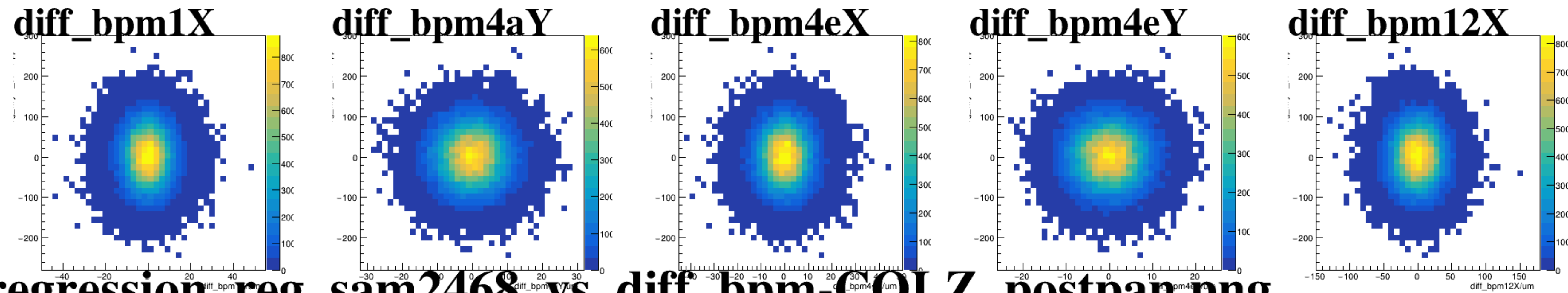
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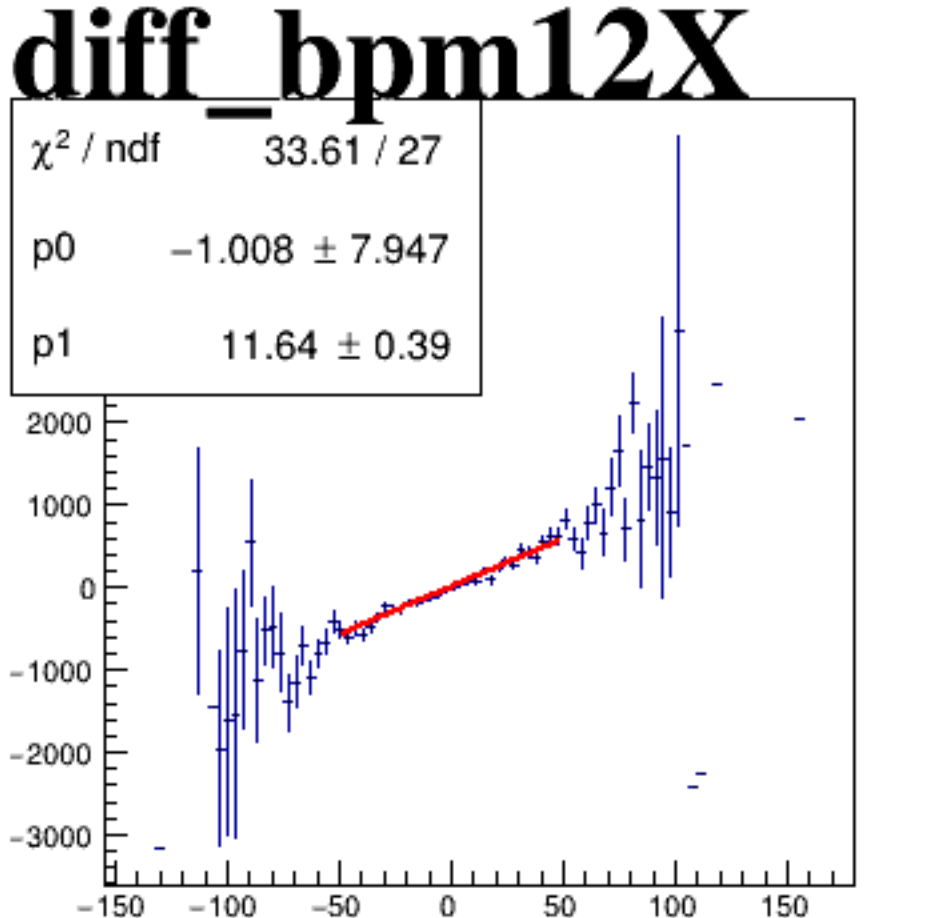
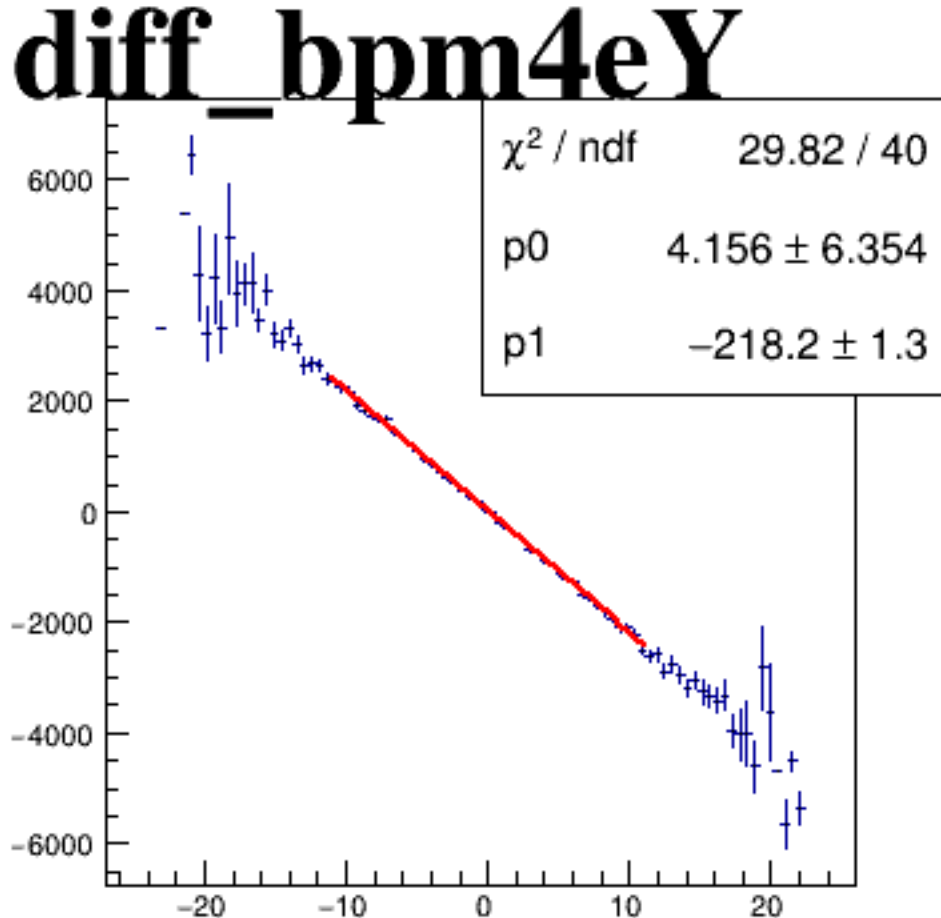
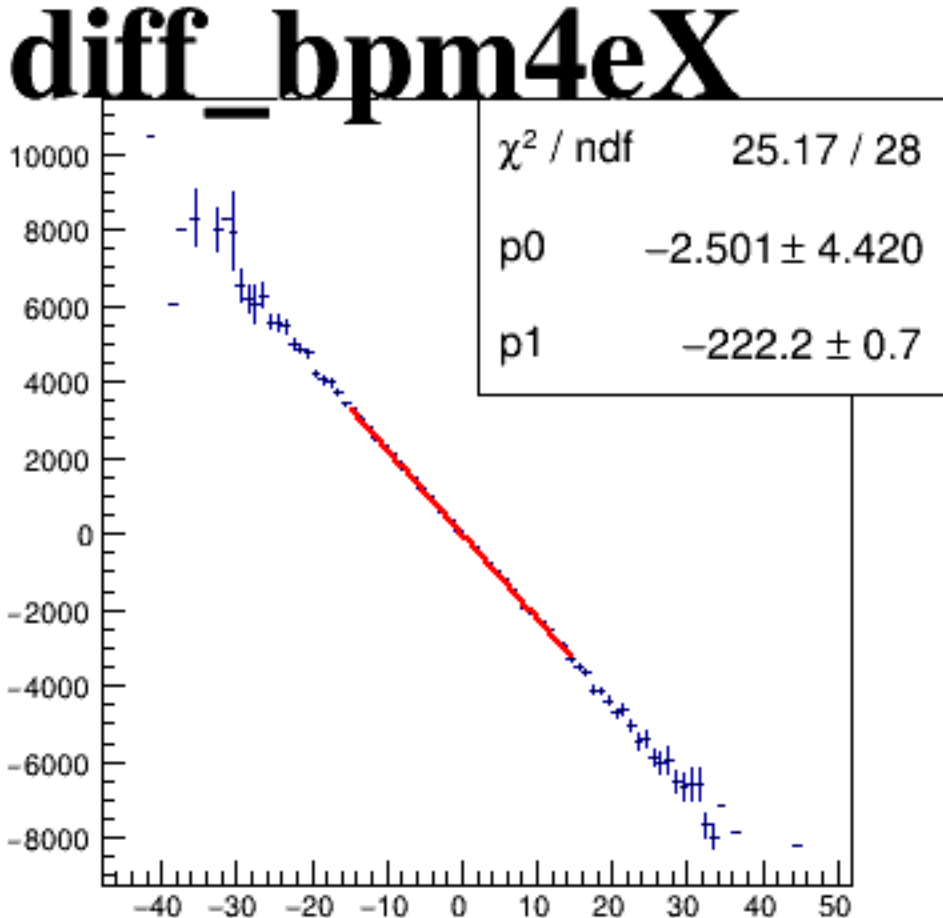
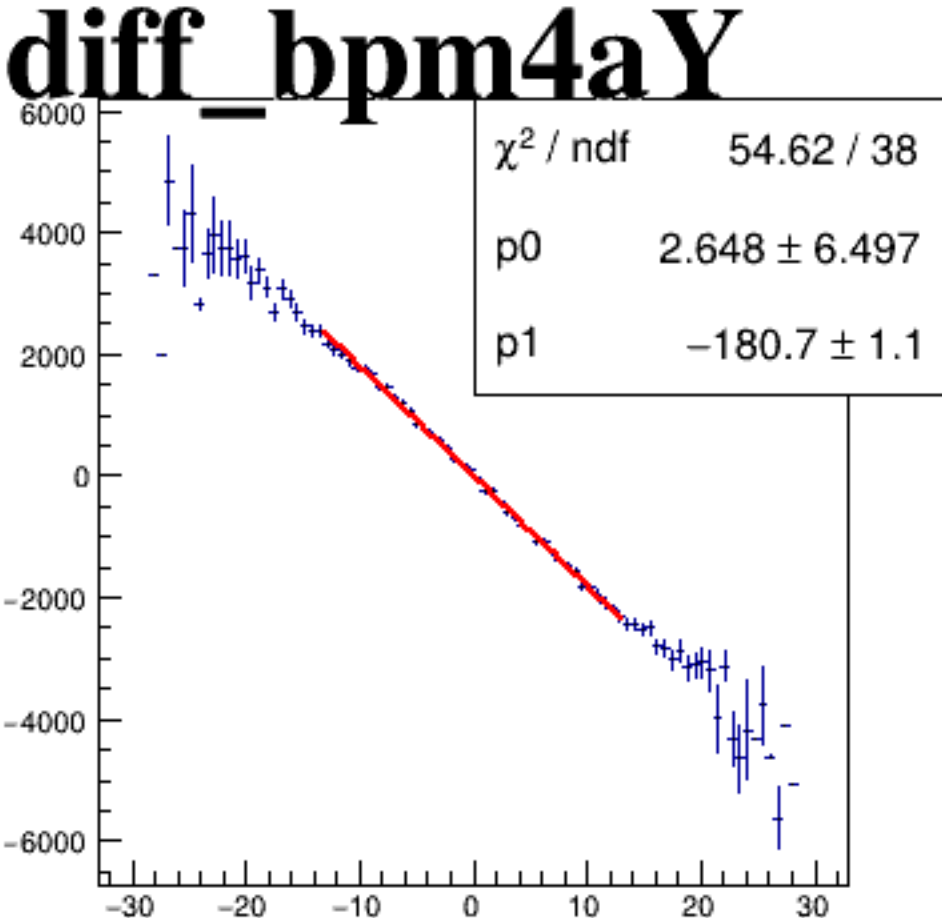
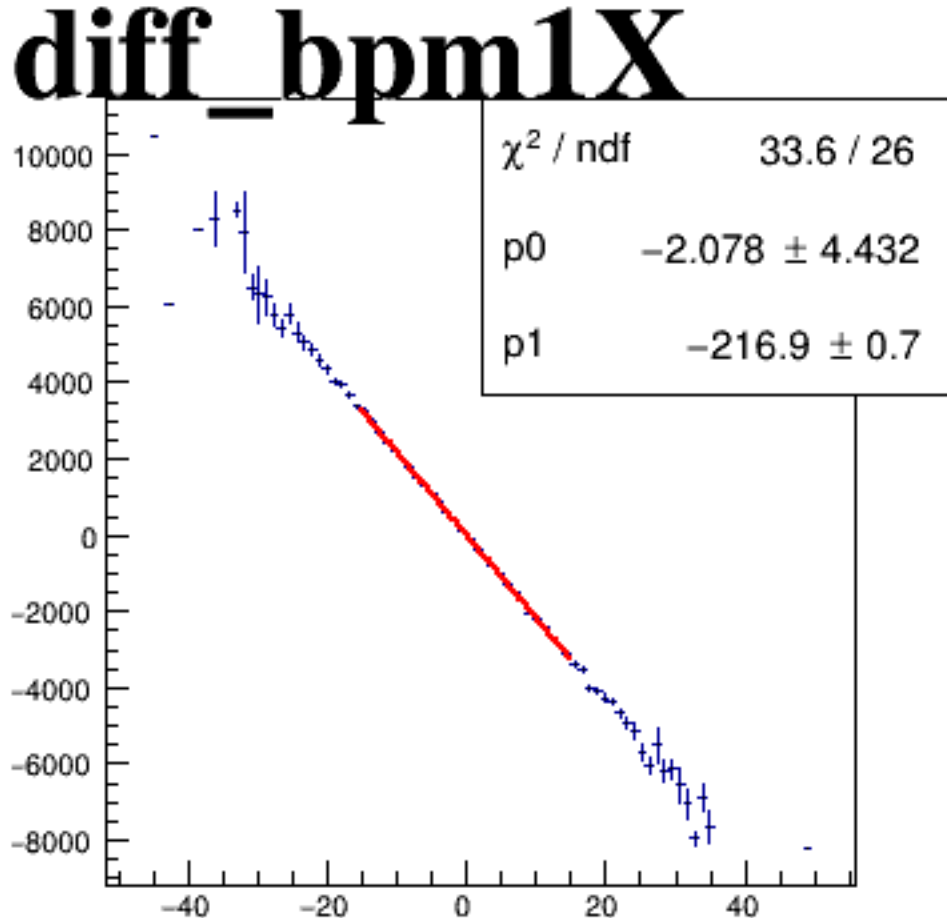
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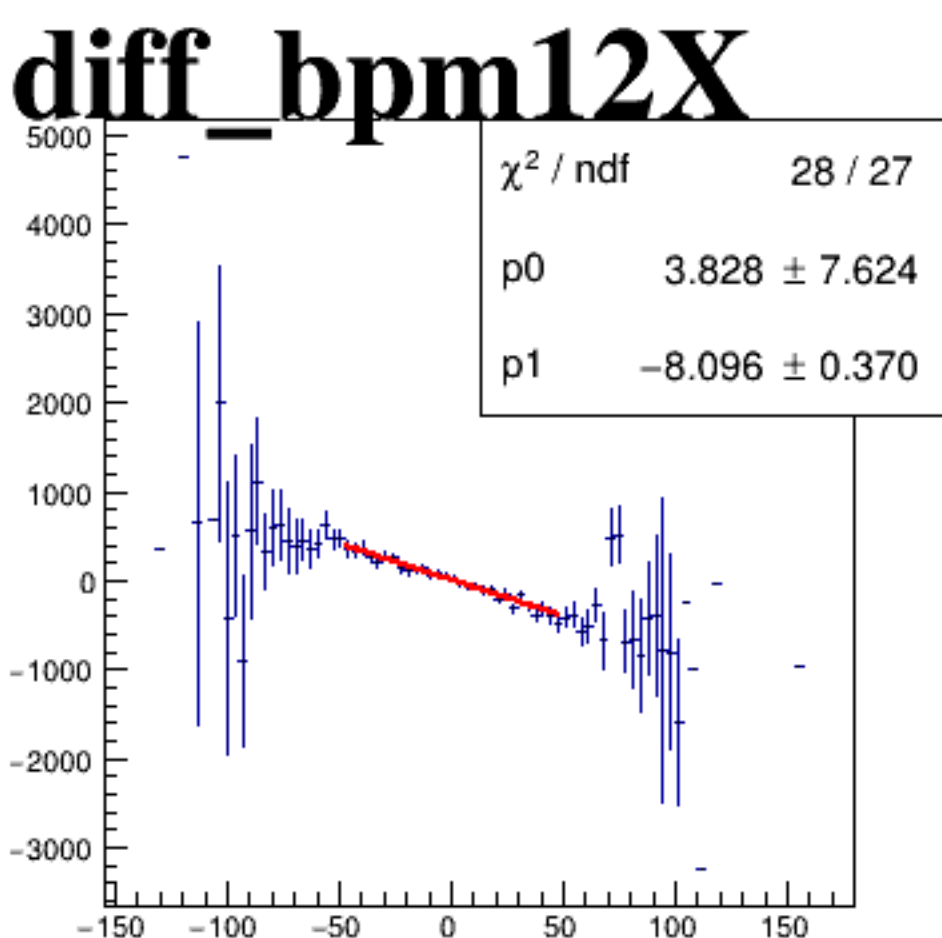
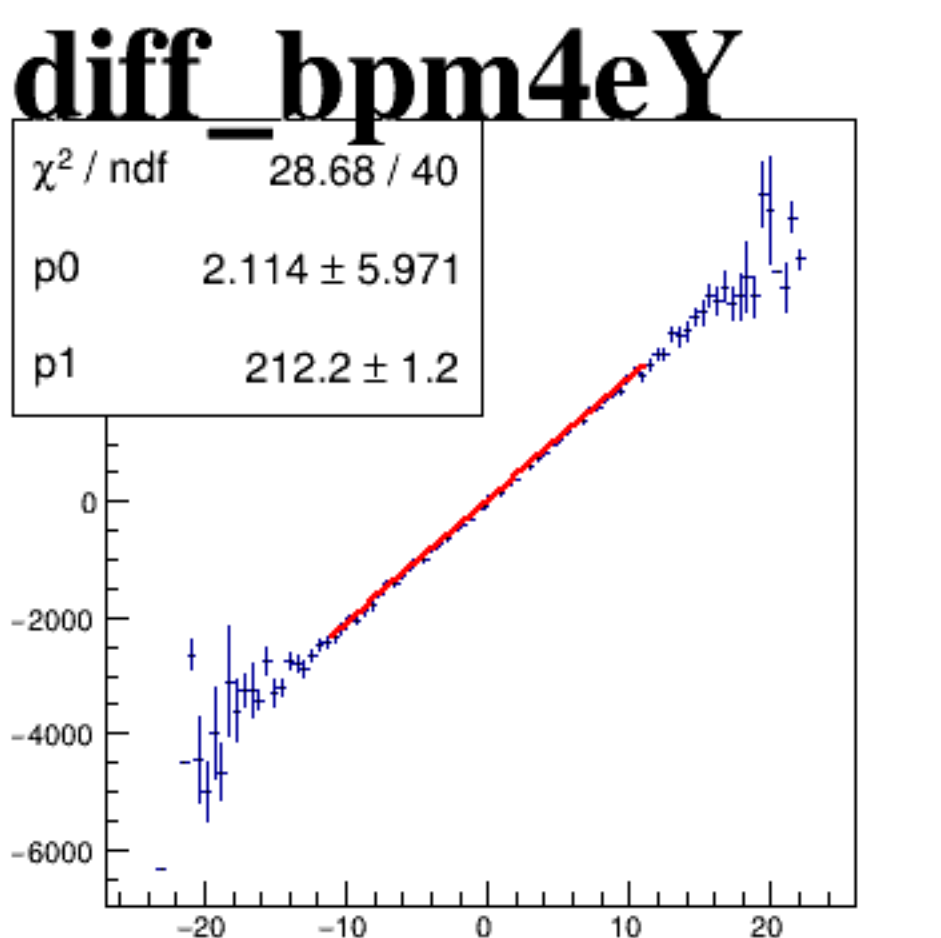
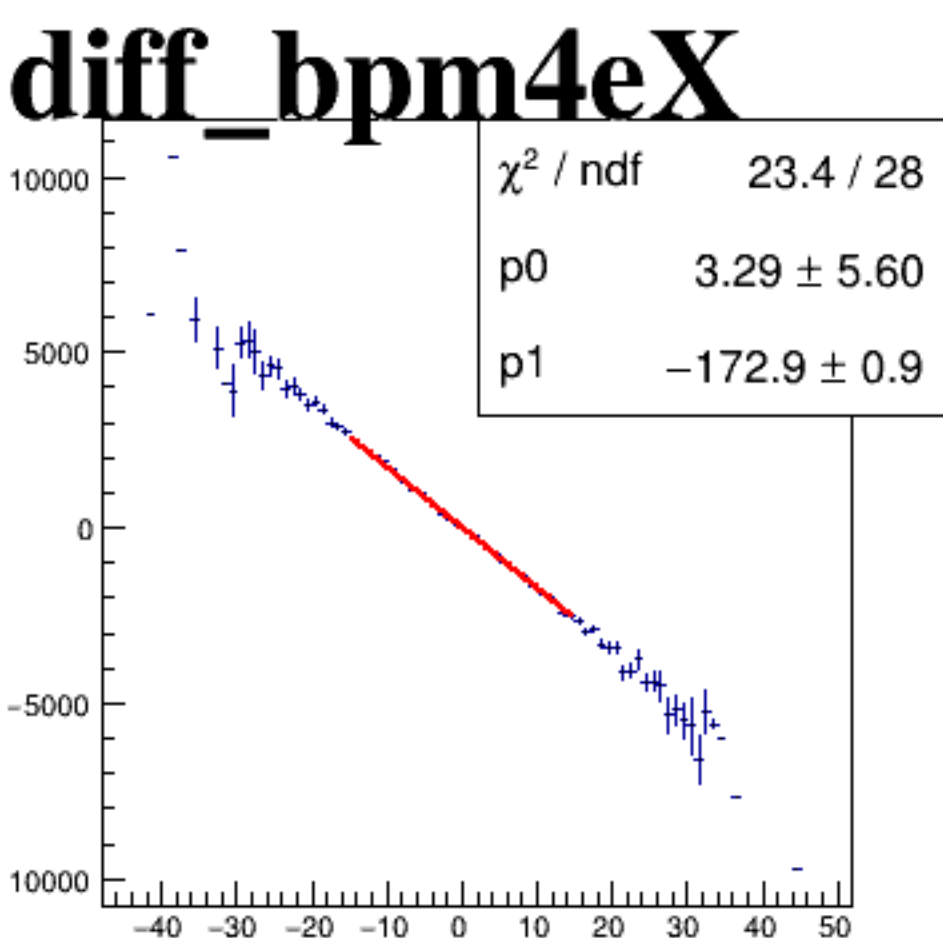
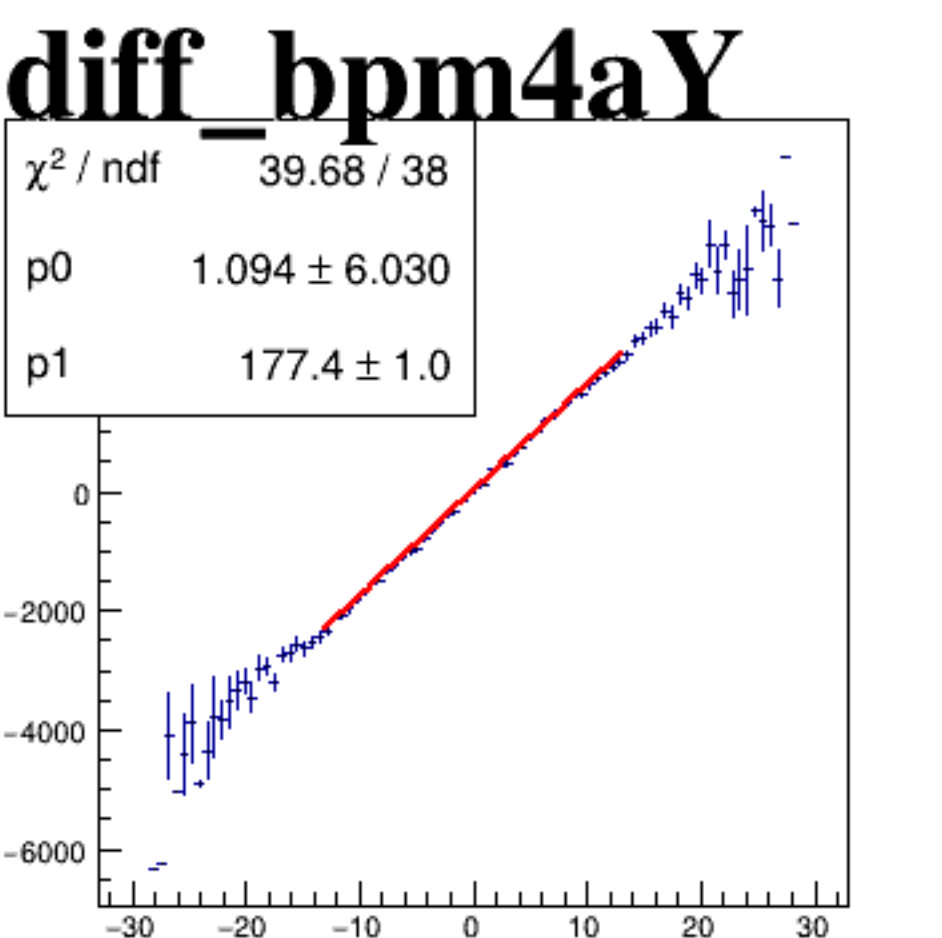
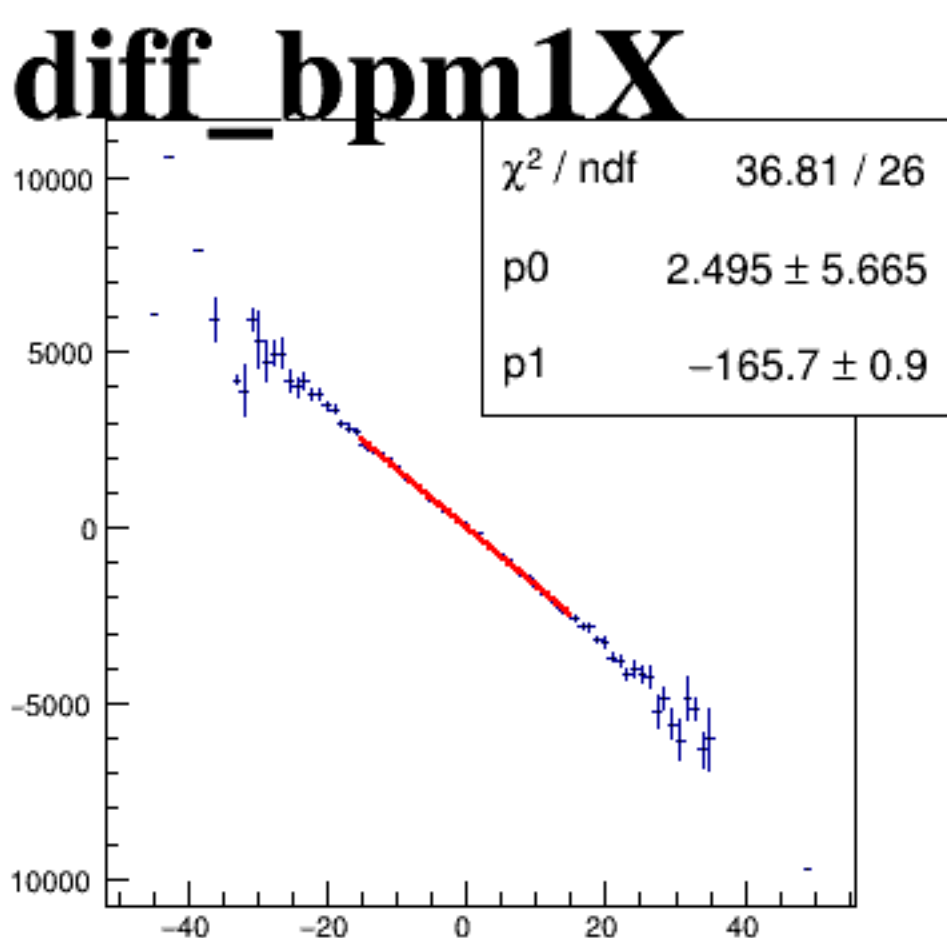
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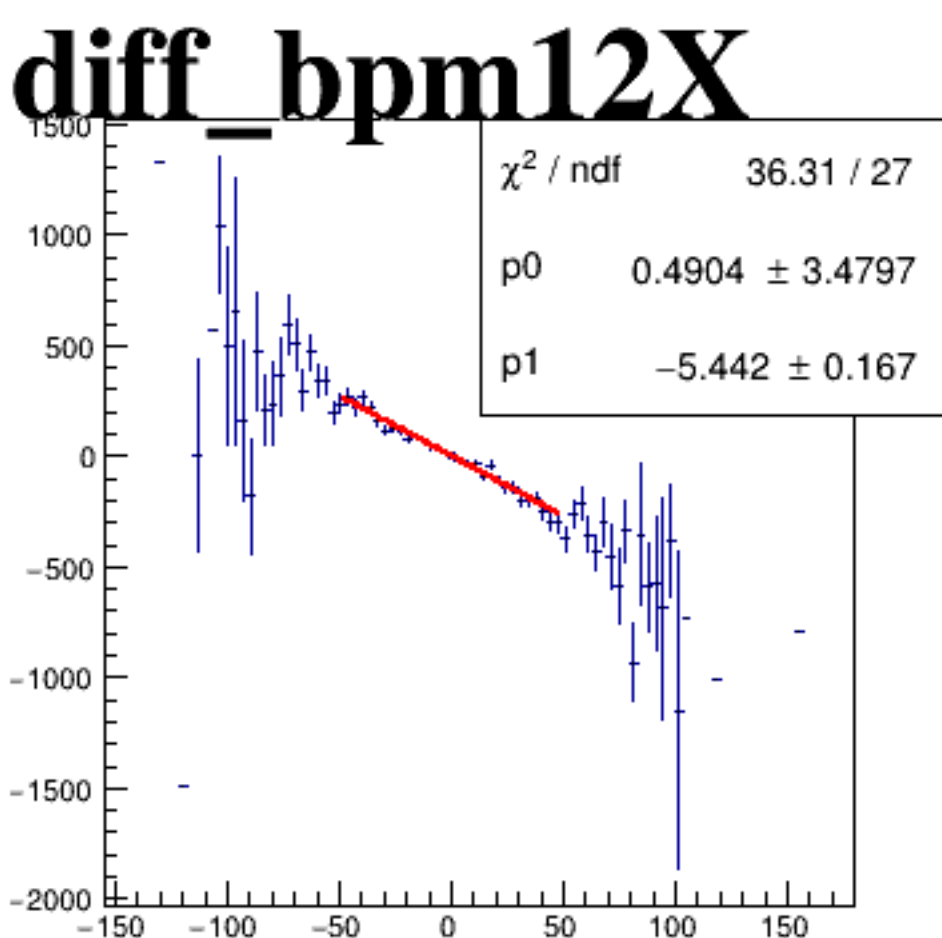
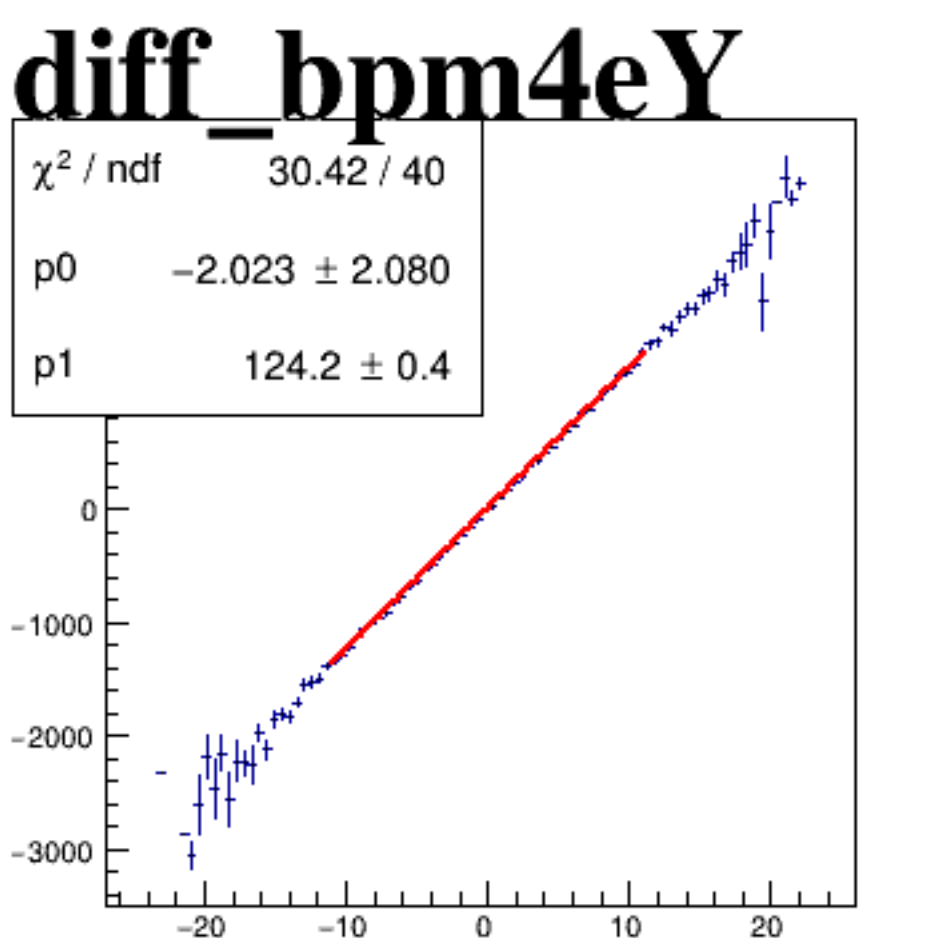
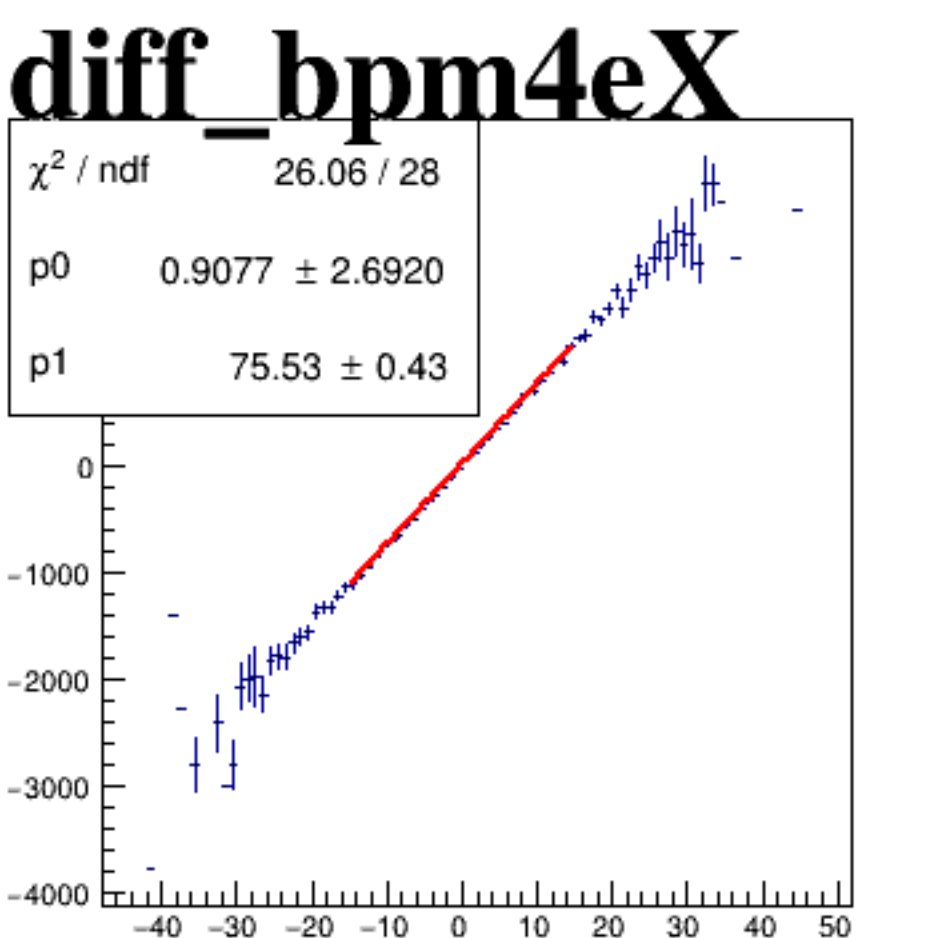
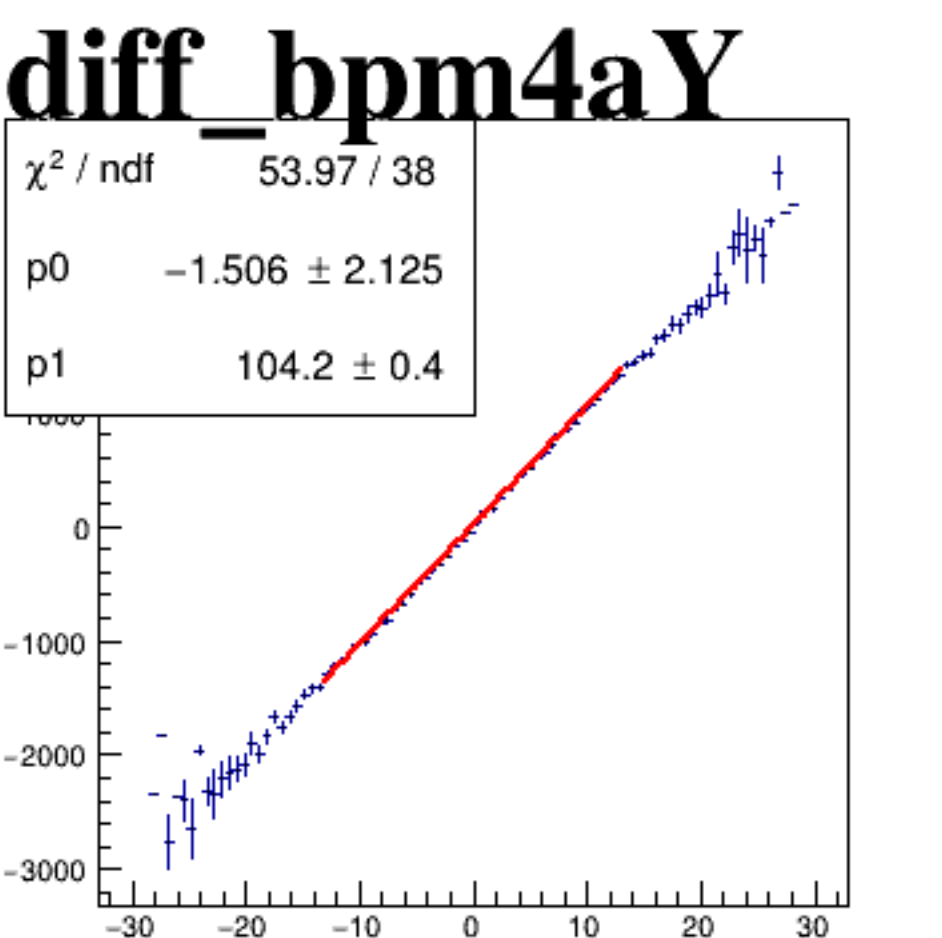
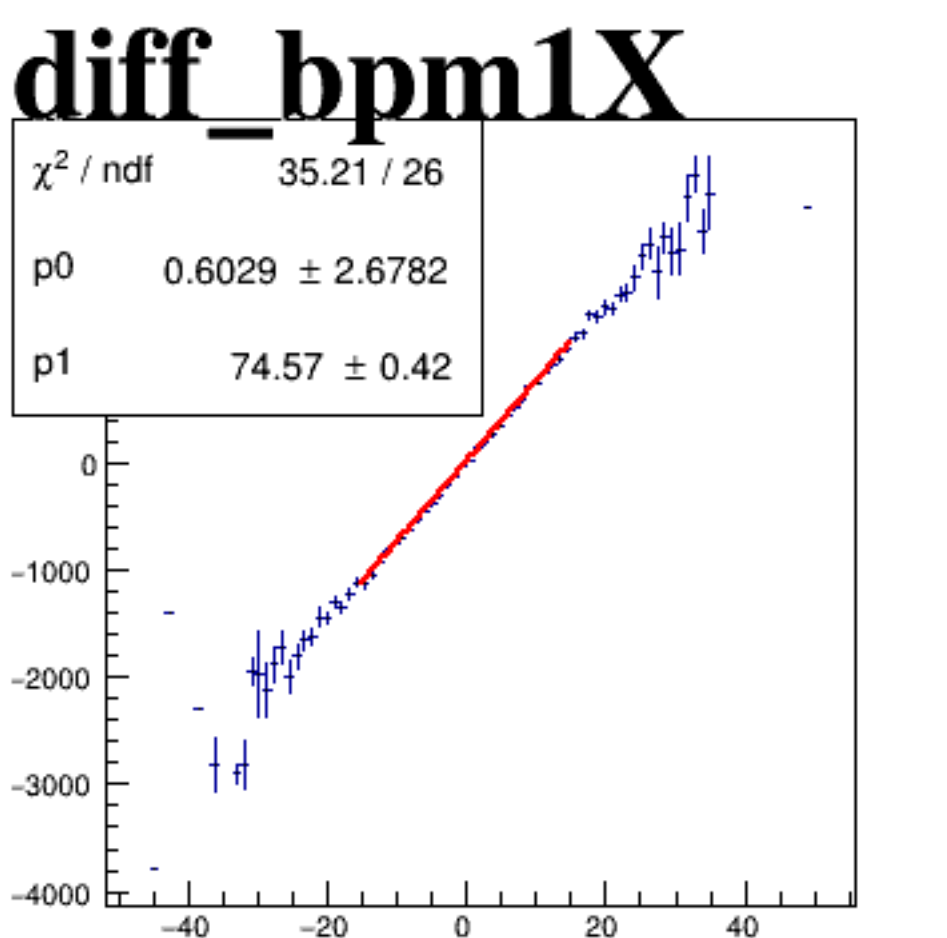
asym_sam2



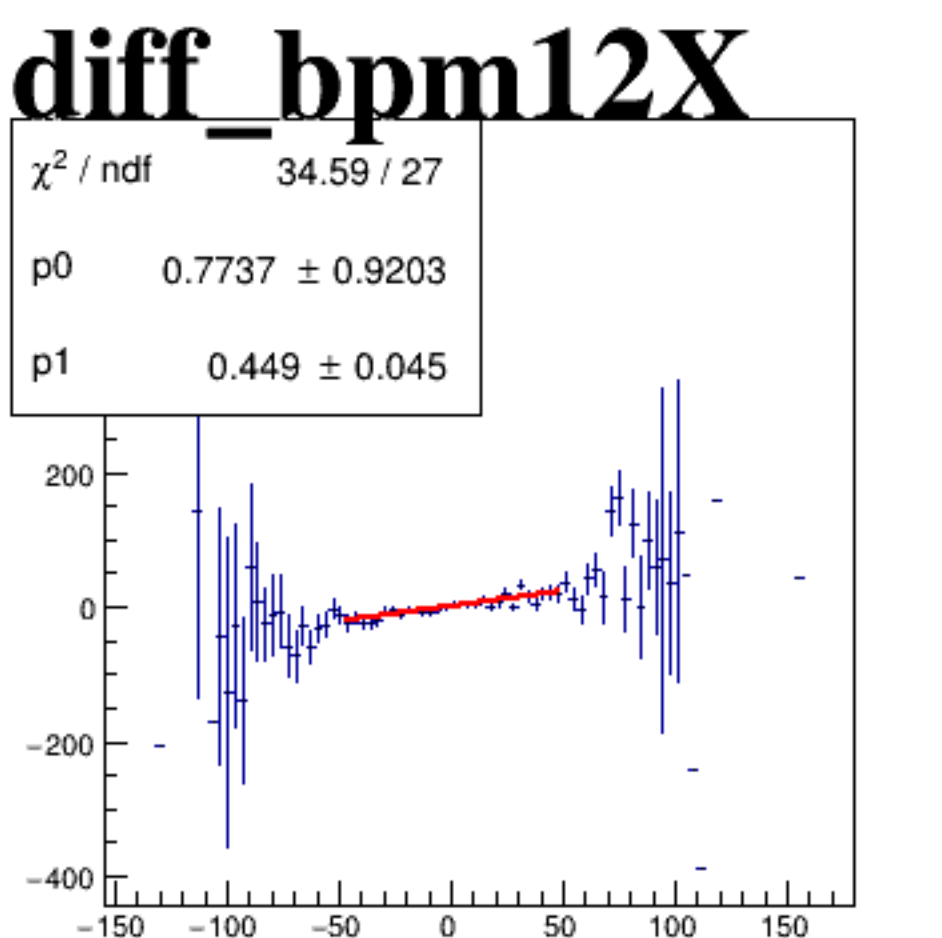
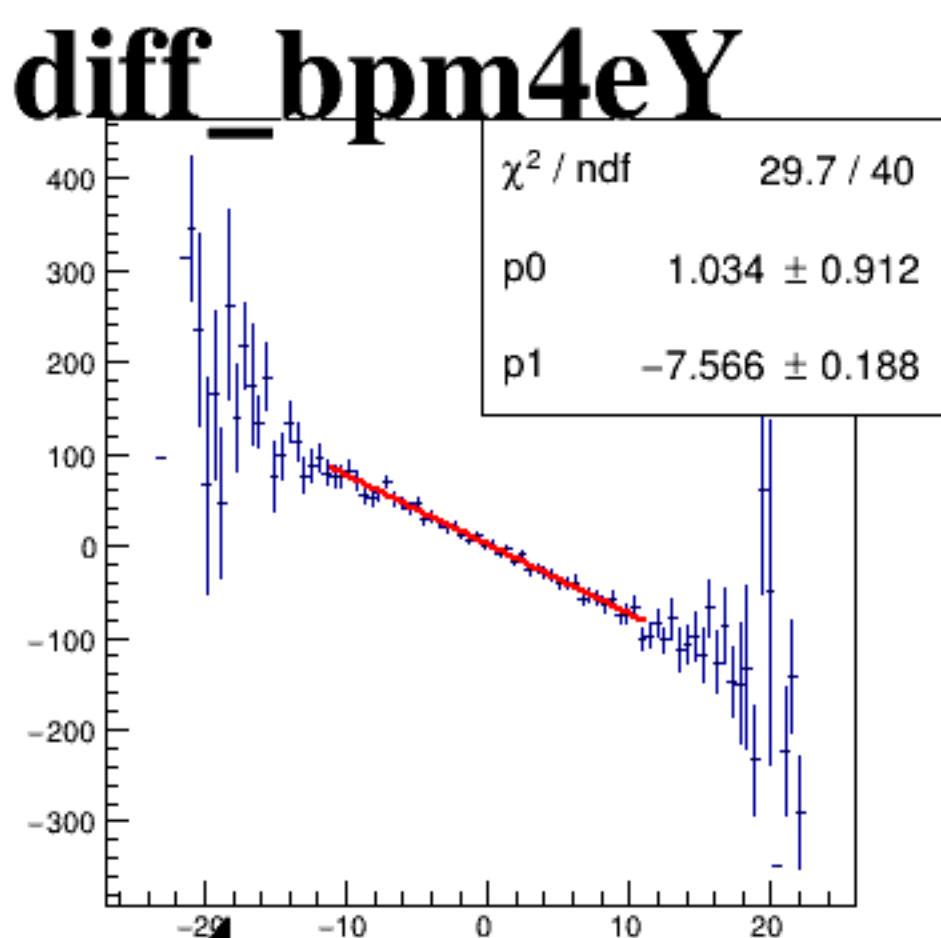
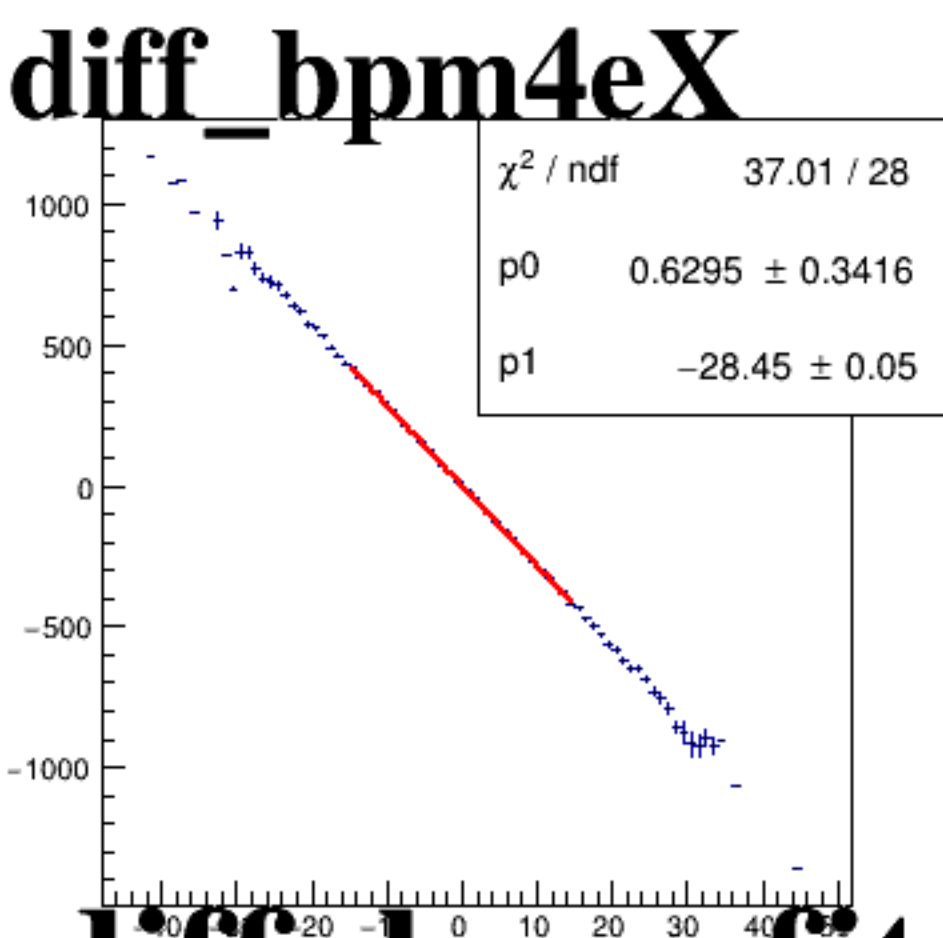
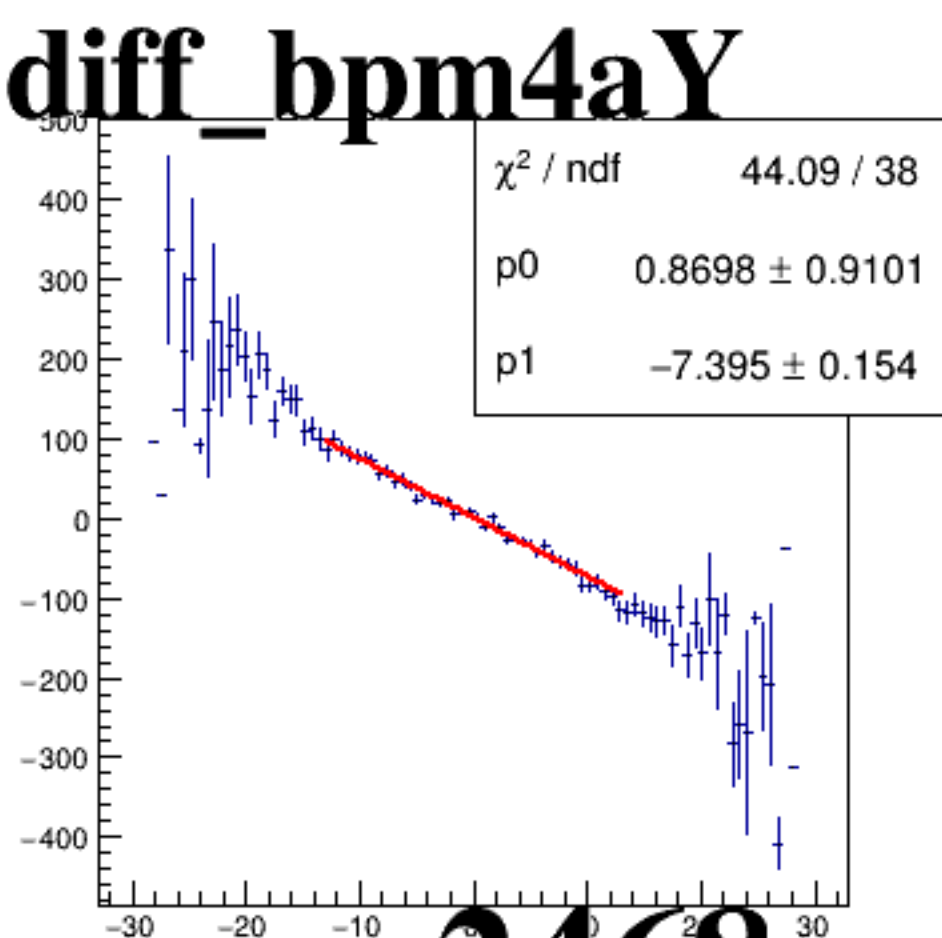
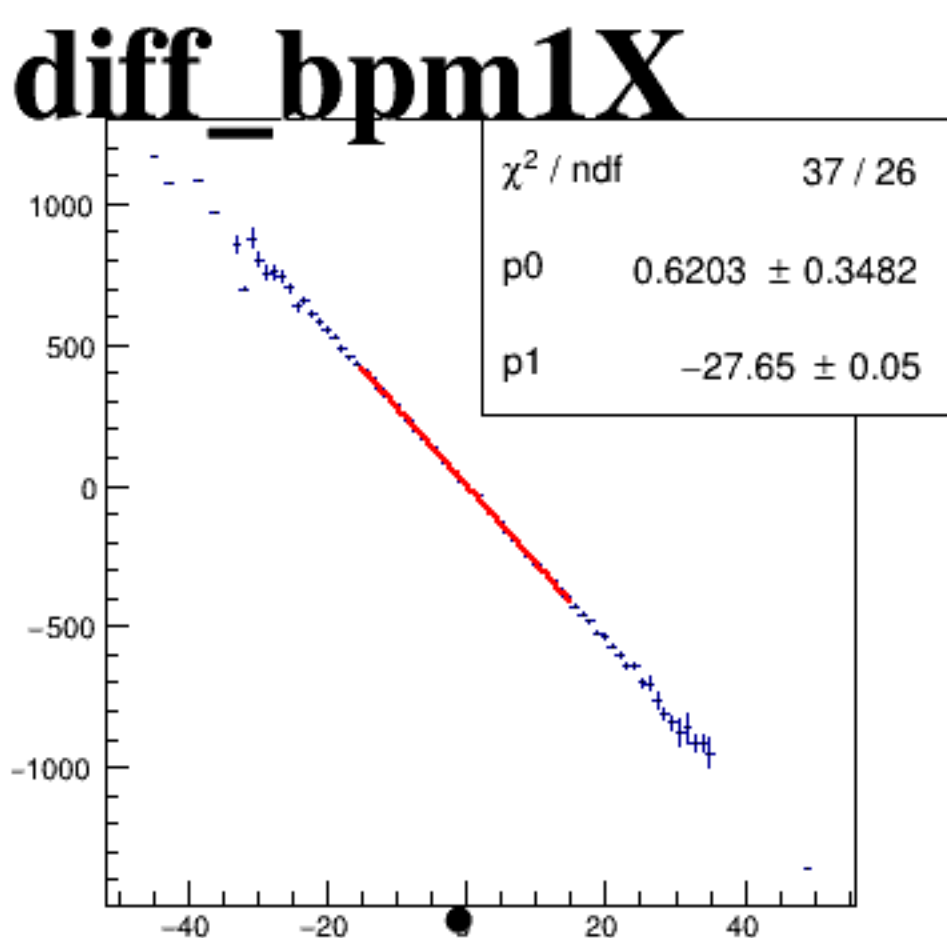
asym_sam4



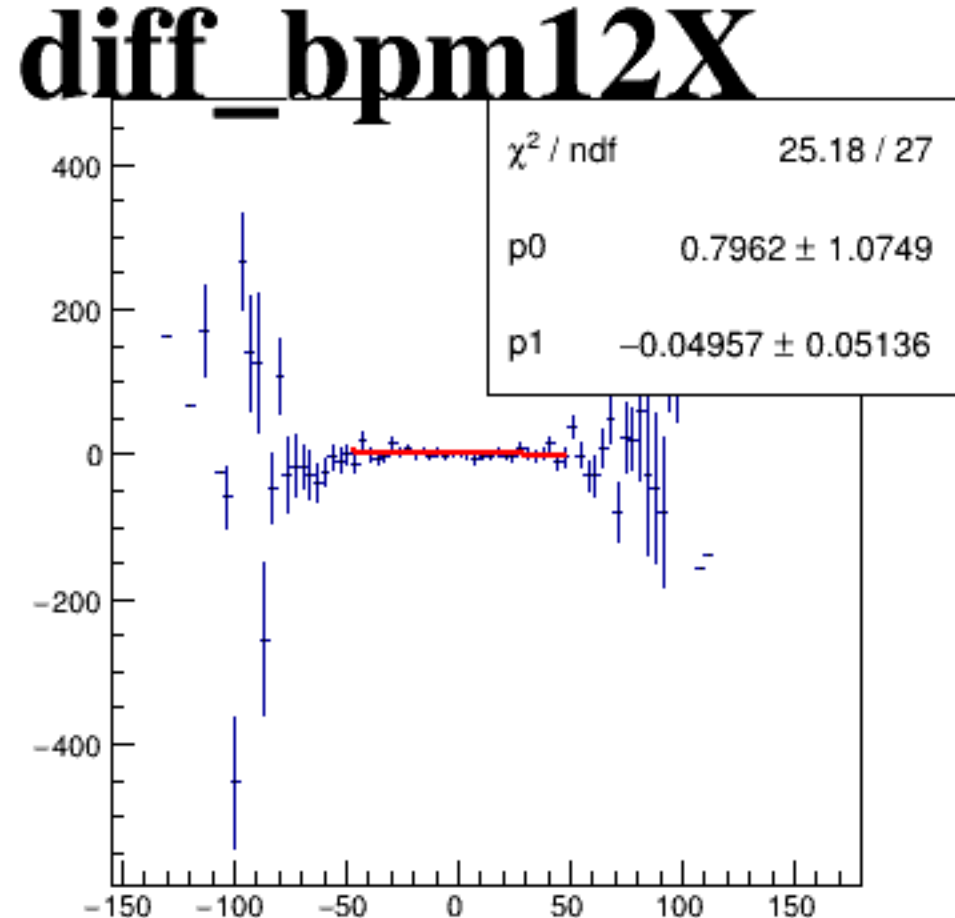
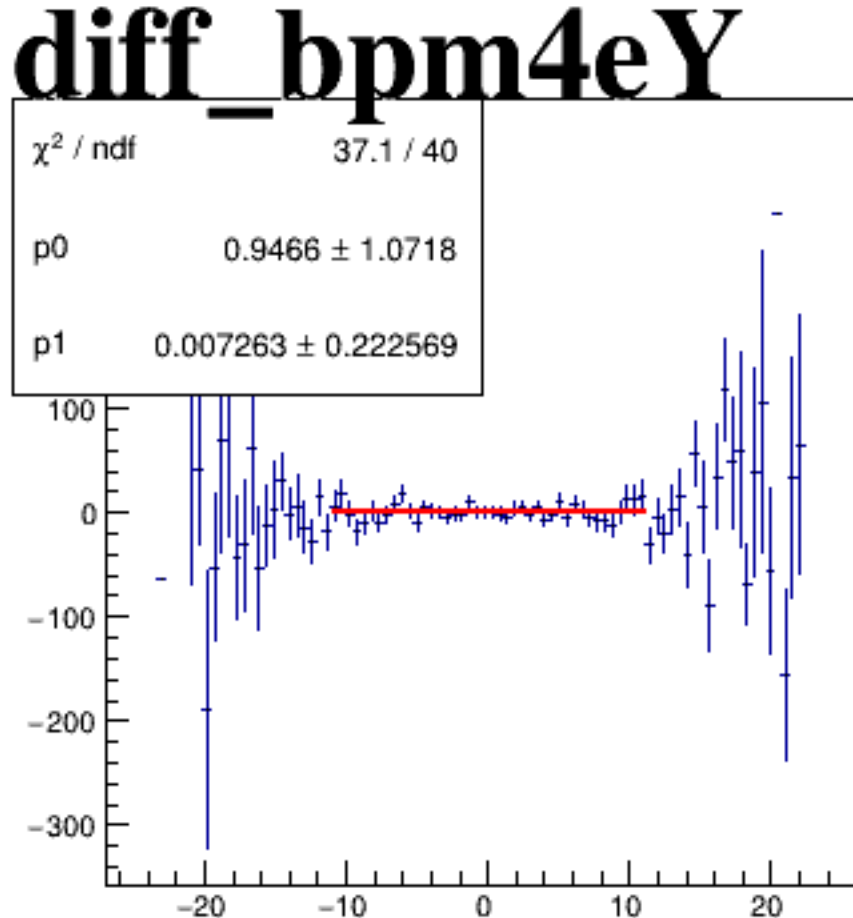
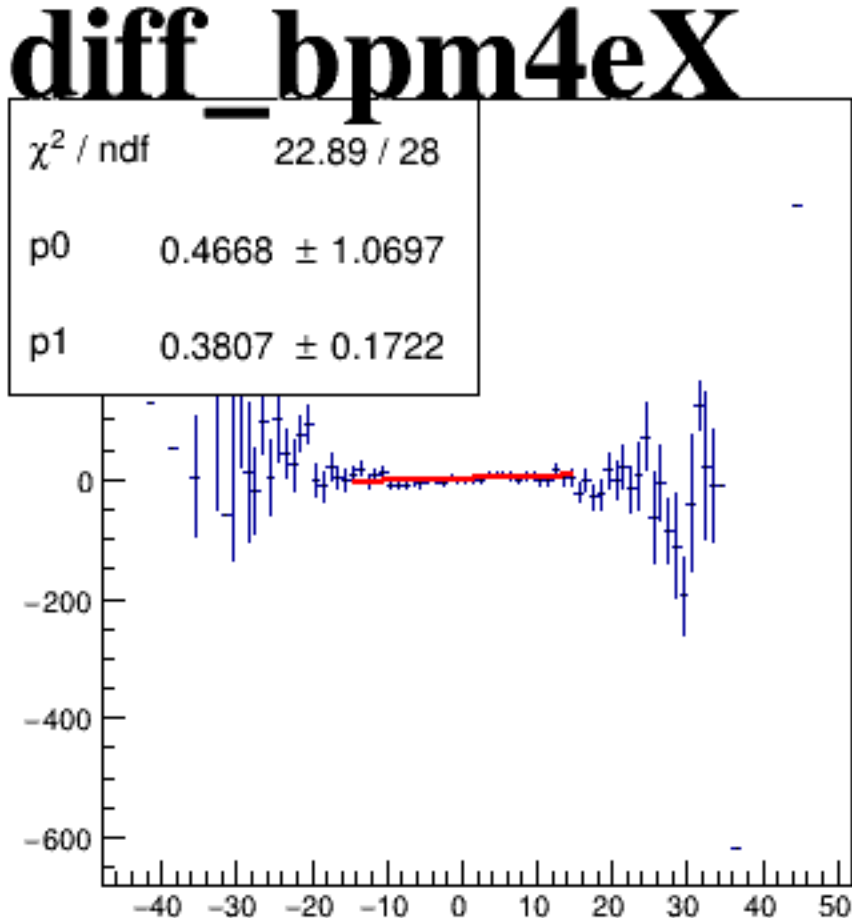
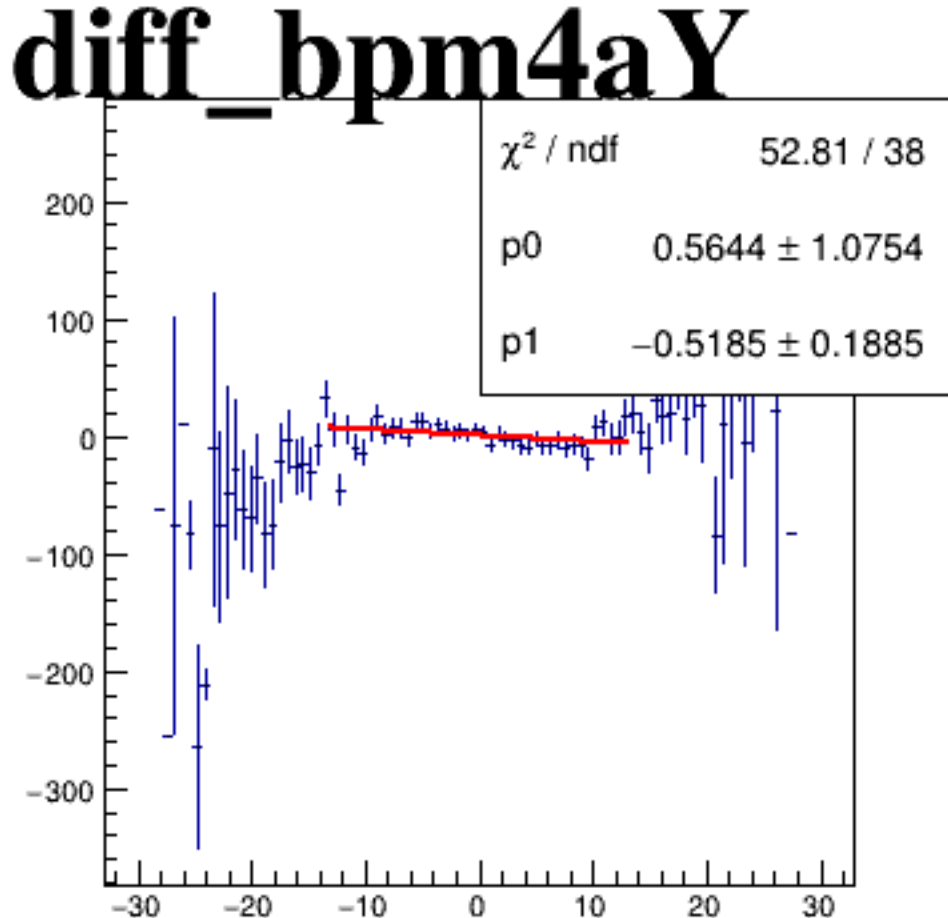
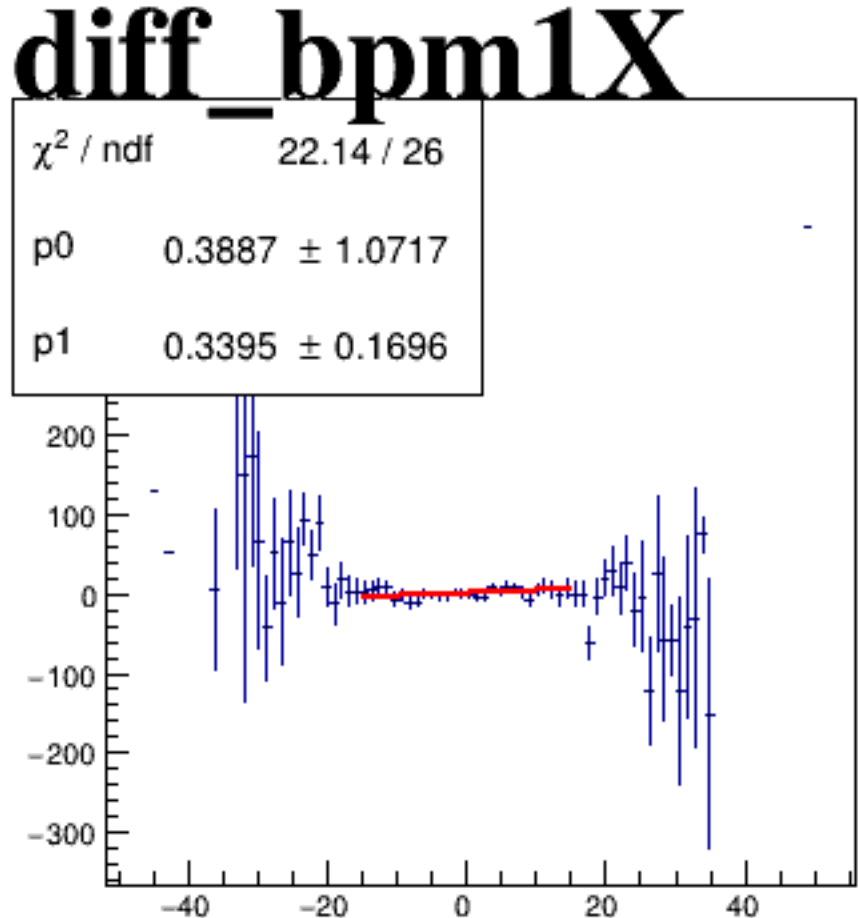
asym_sam6



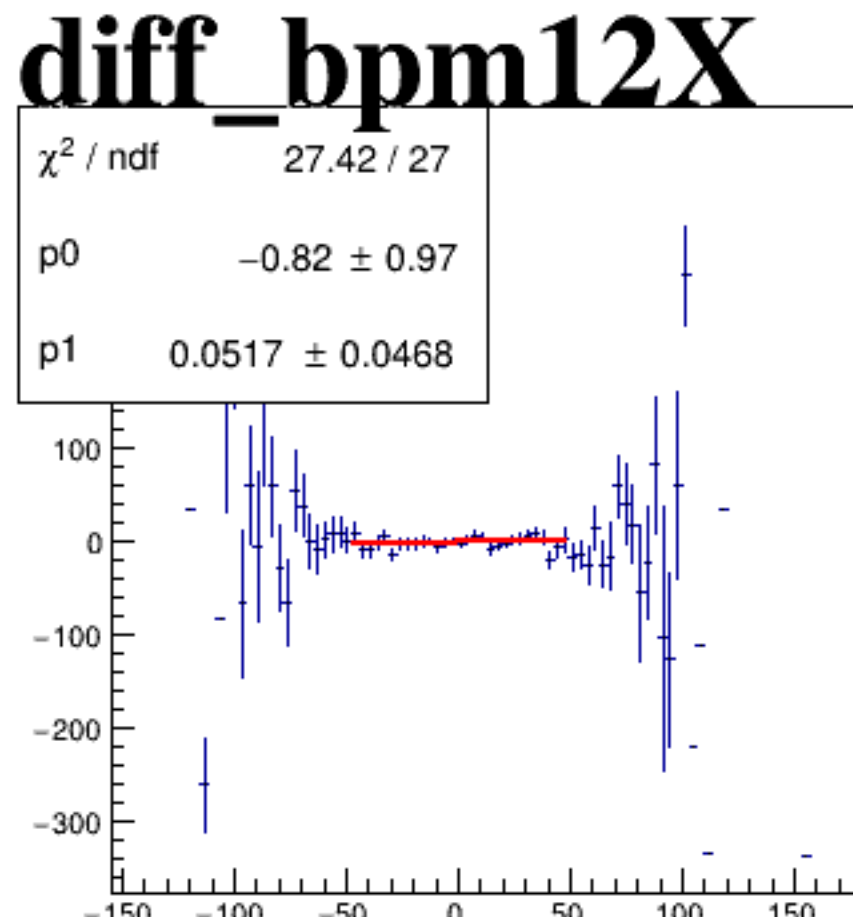
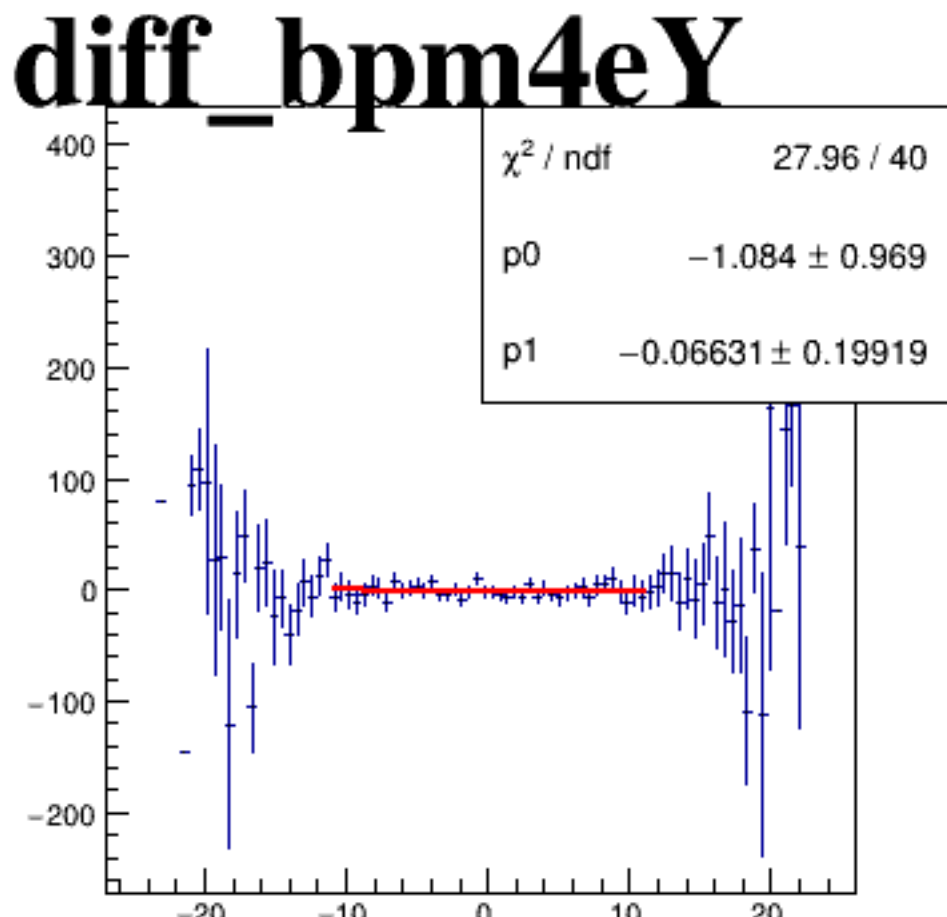
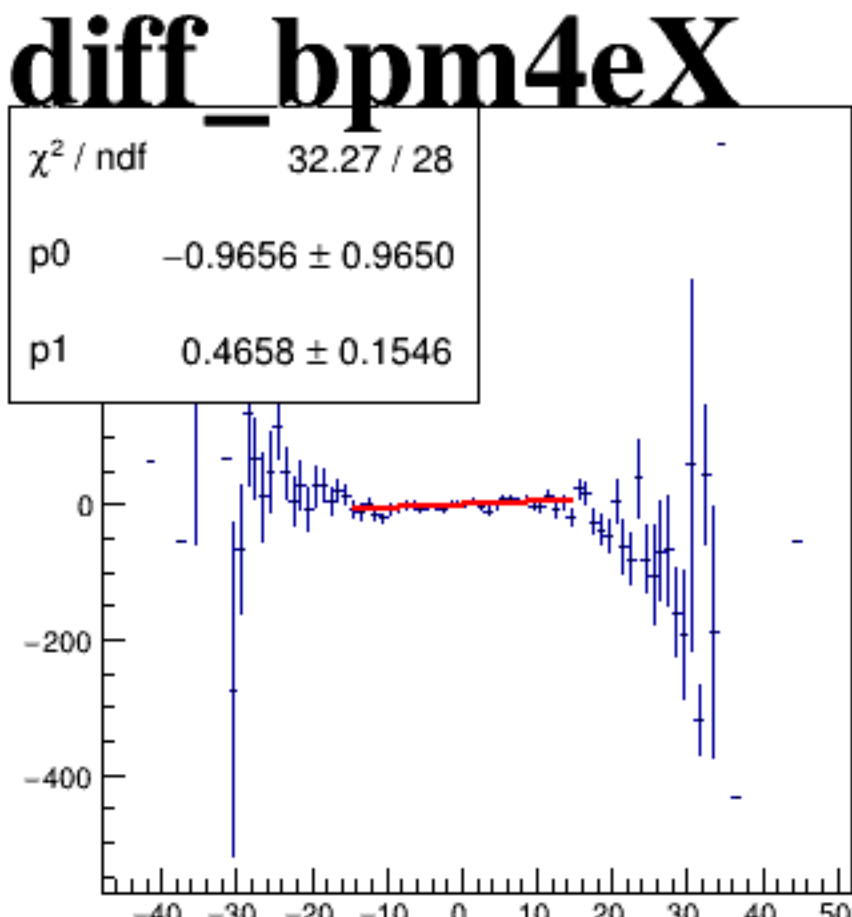
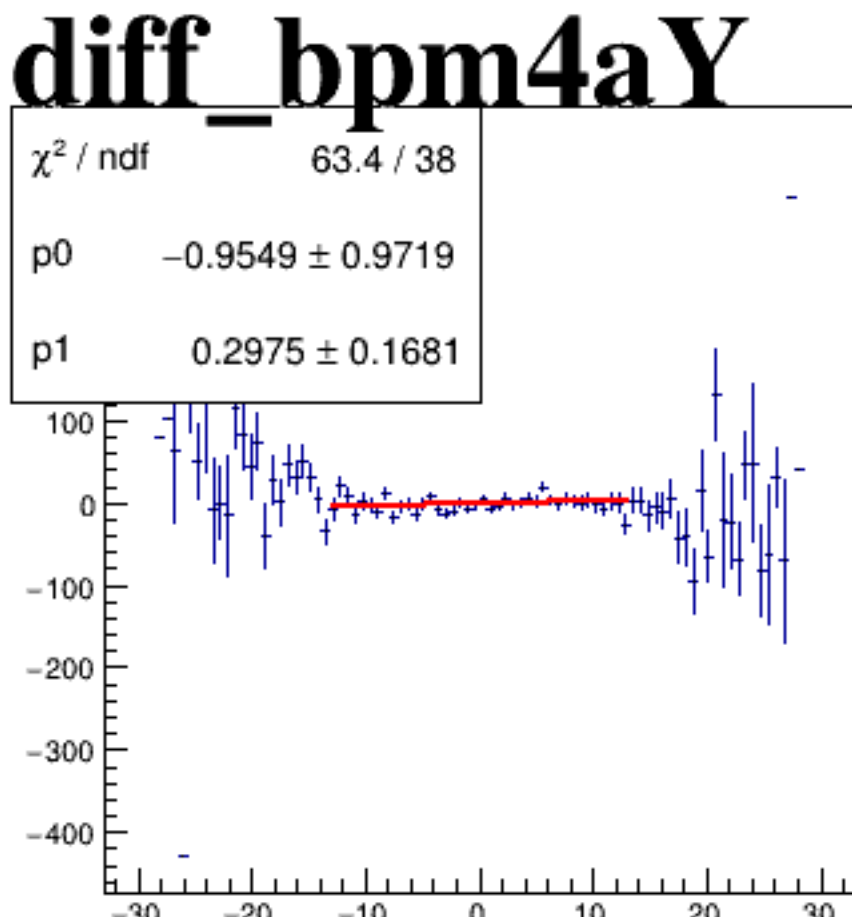
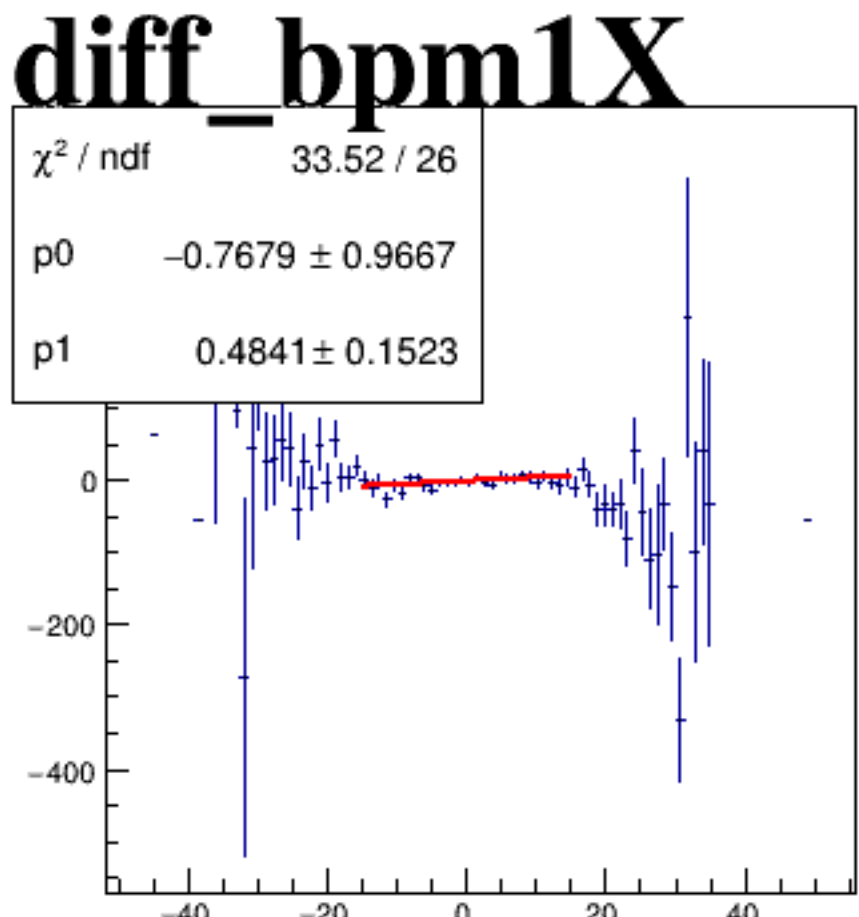
asym_sam8



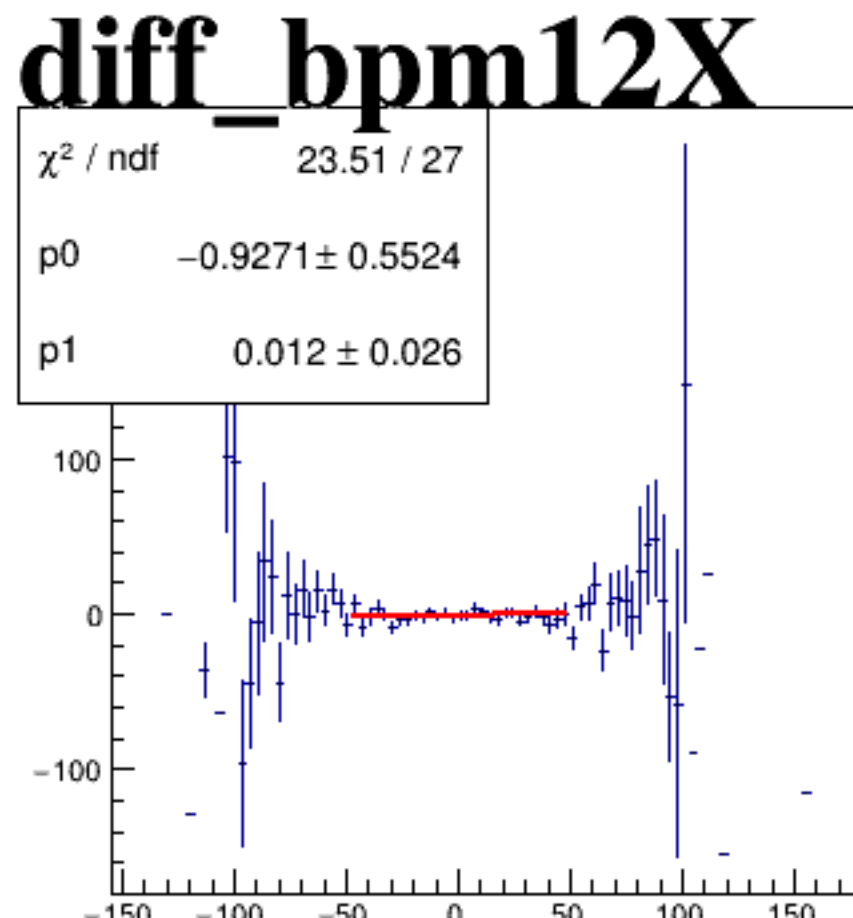
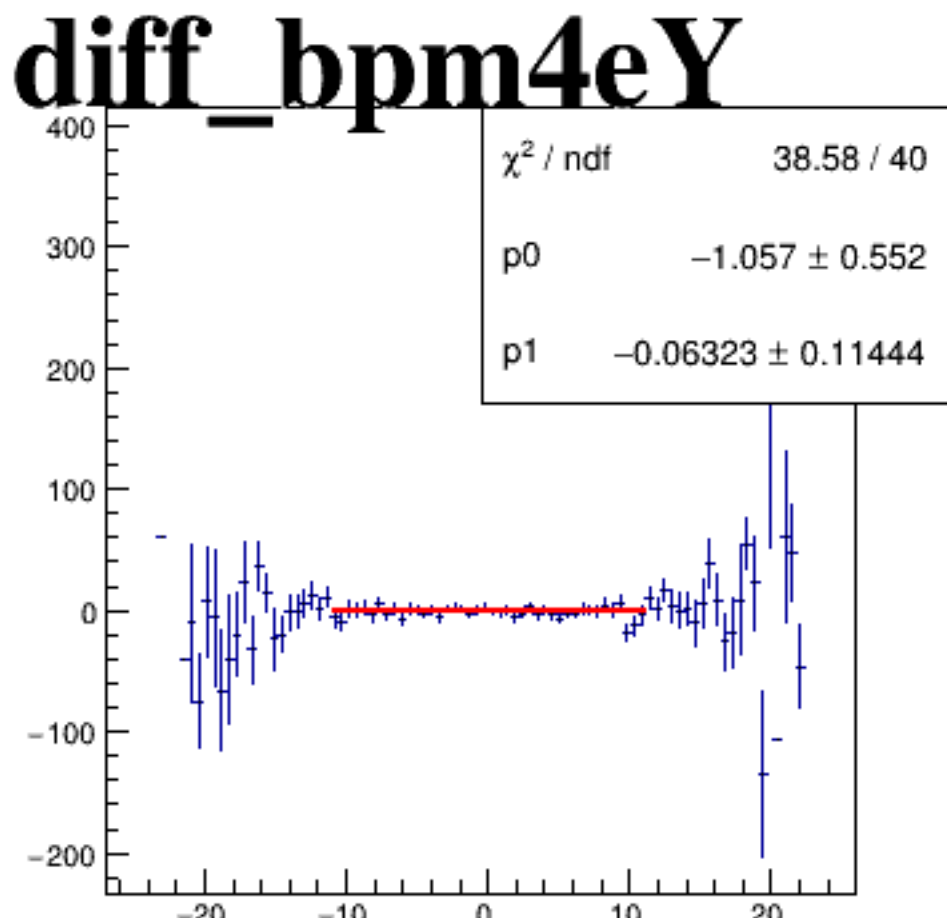
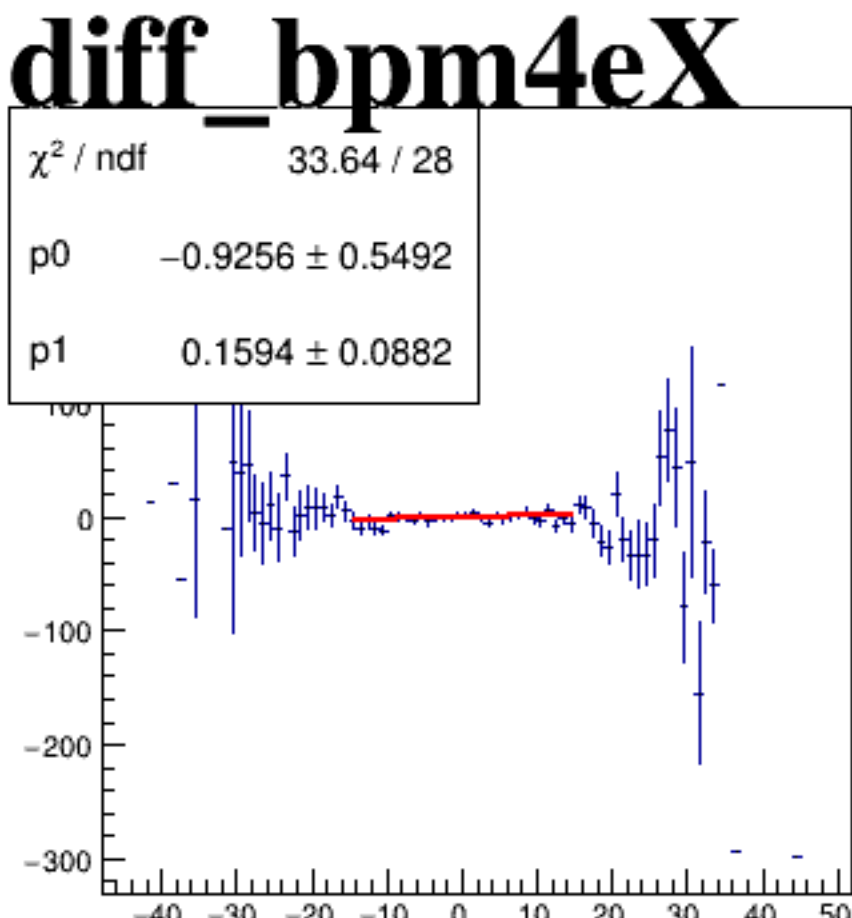
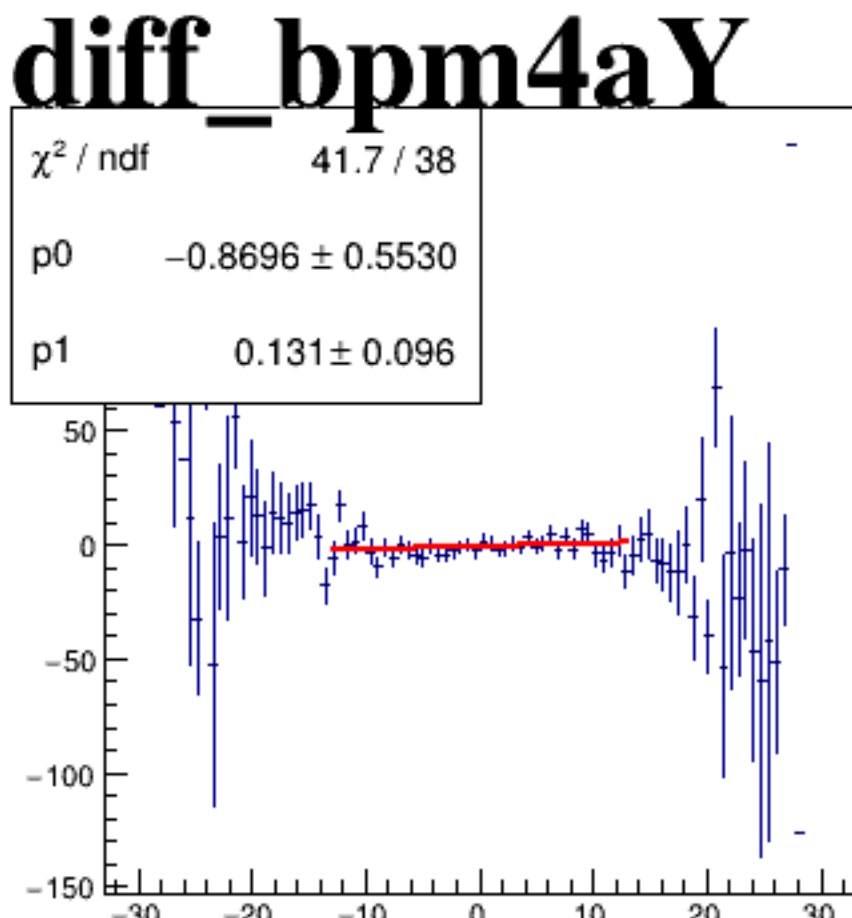
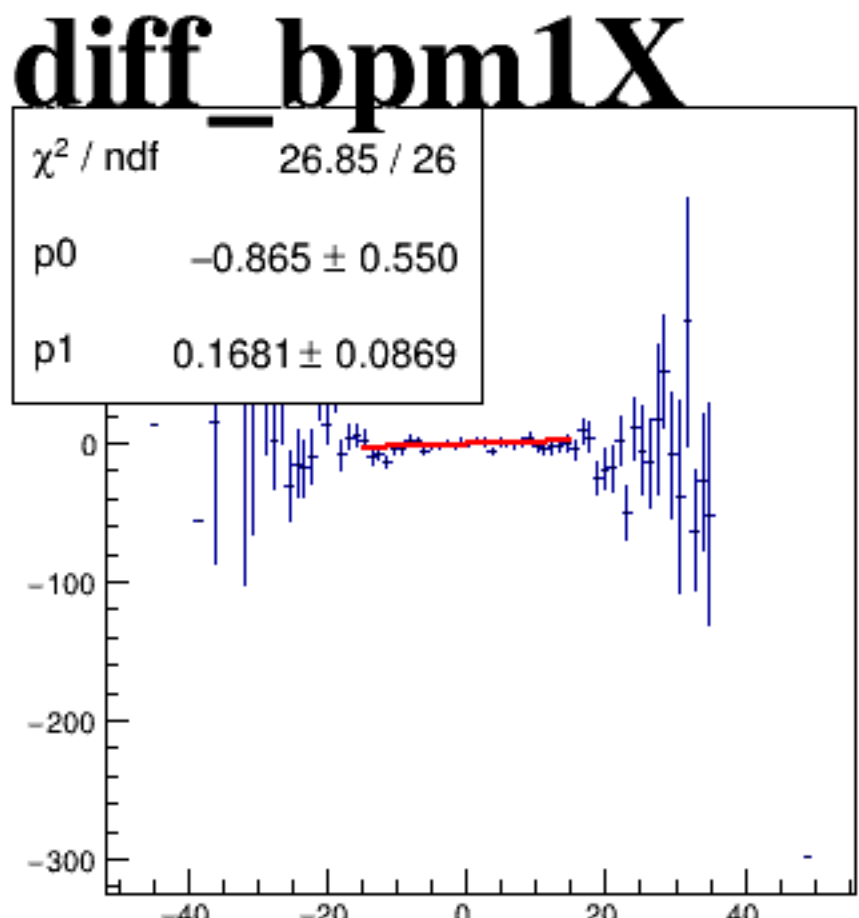
reg_asym_sam2



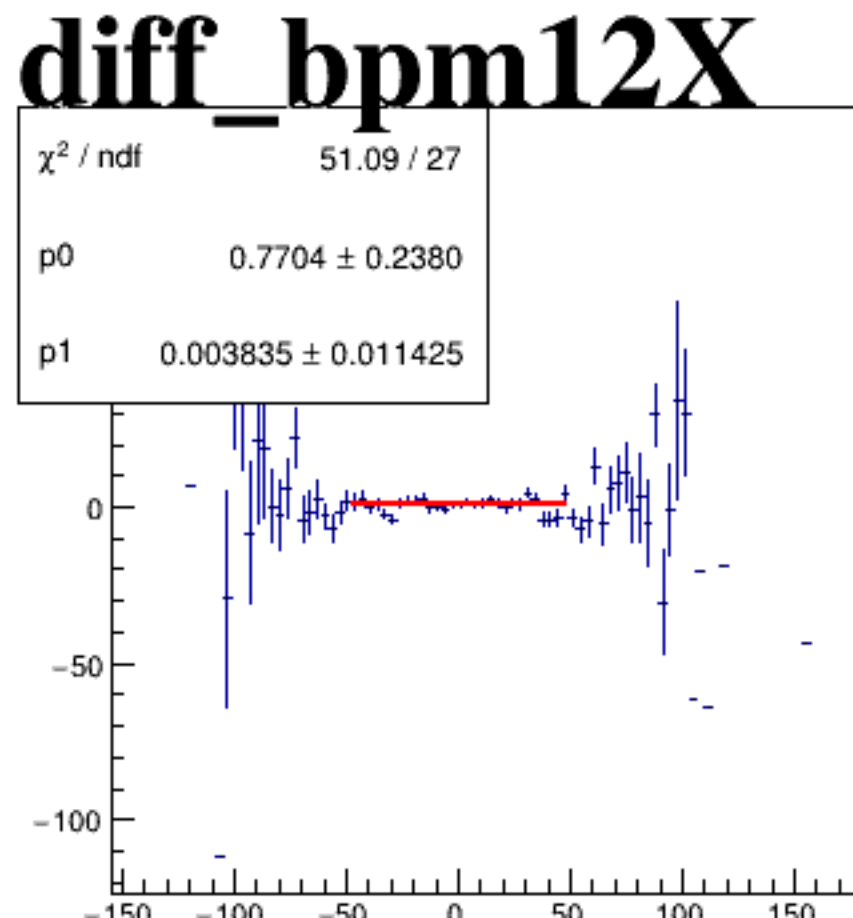
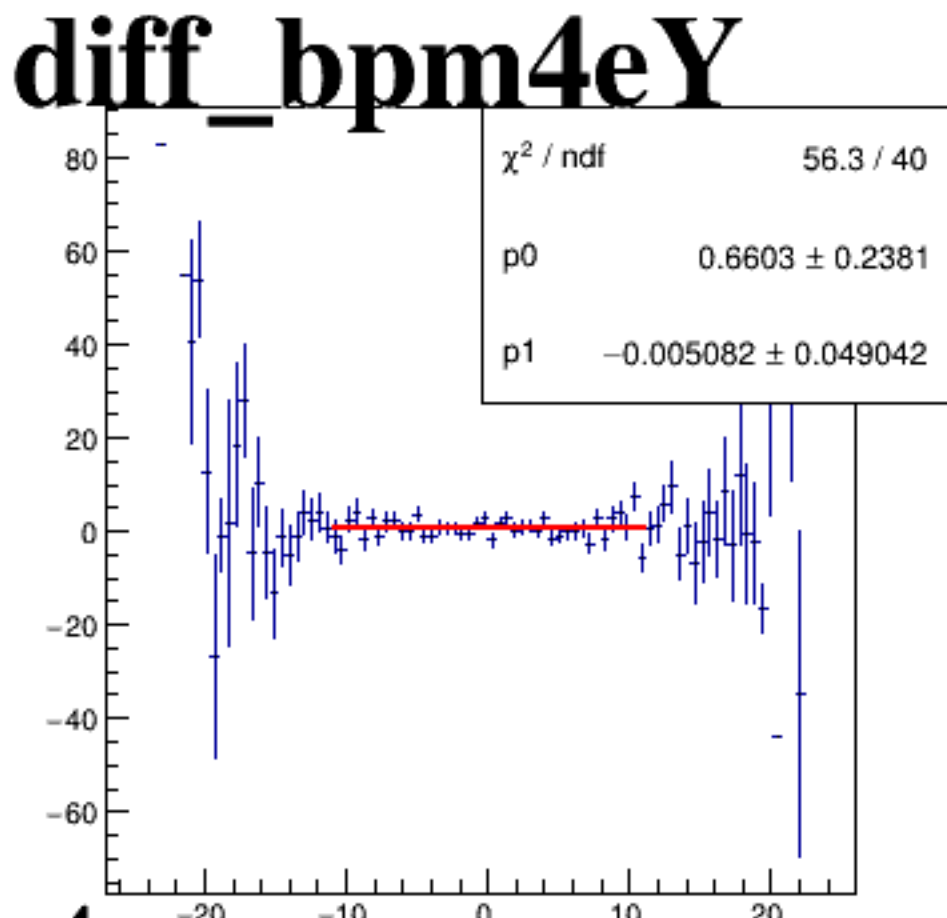
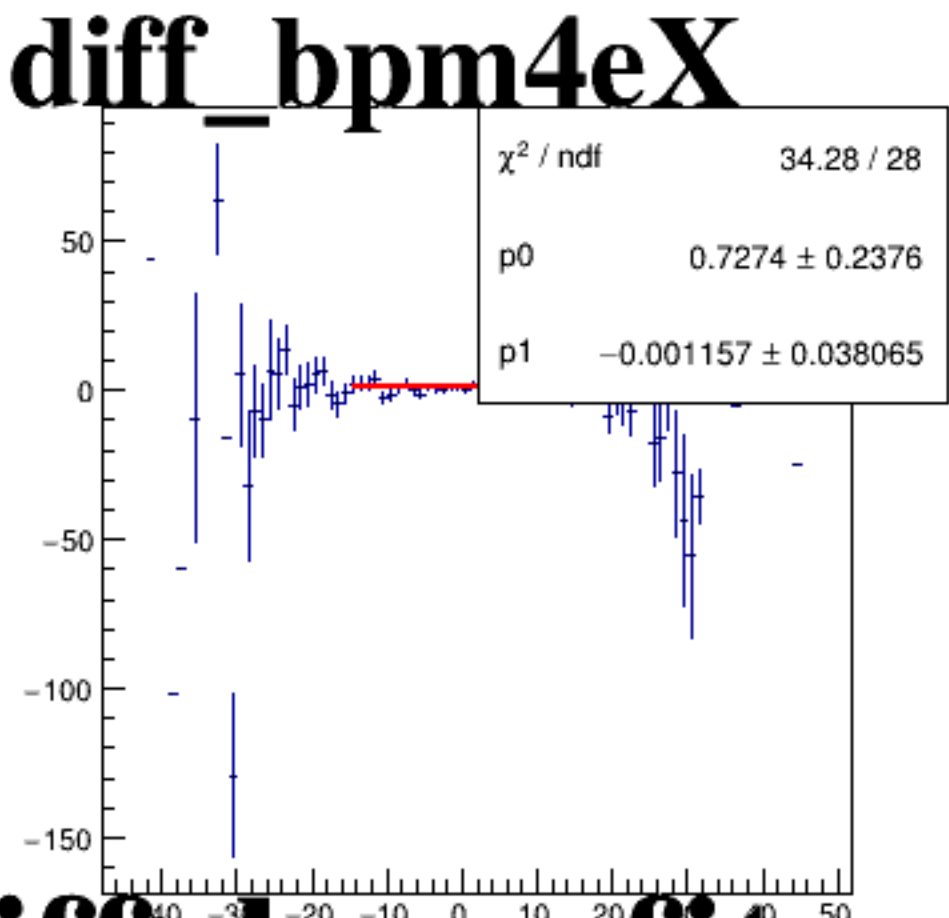
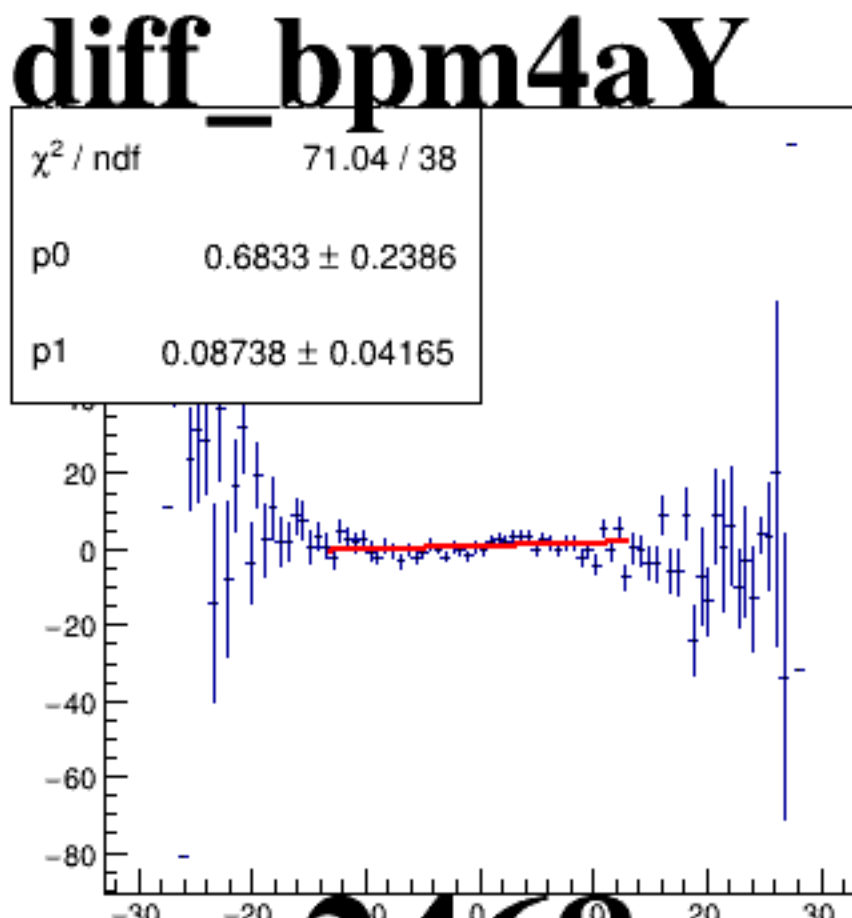
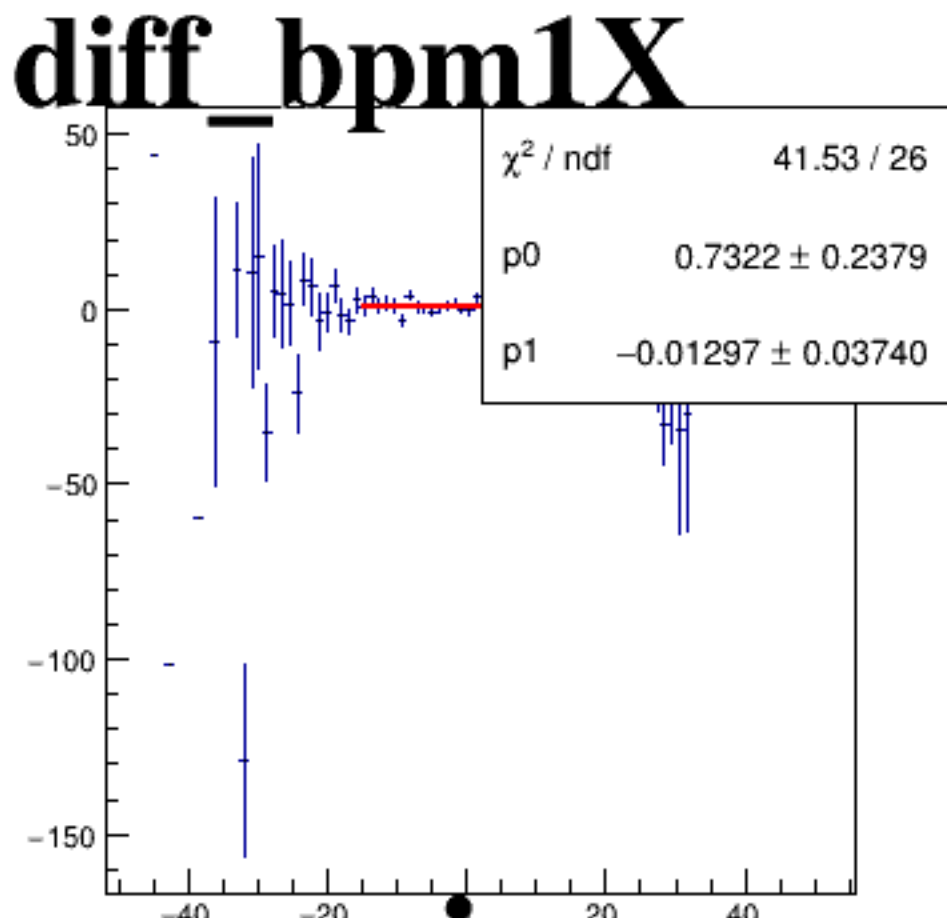
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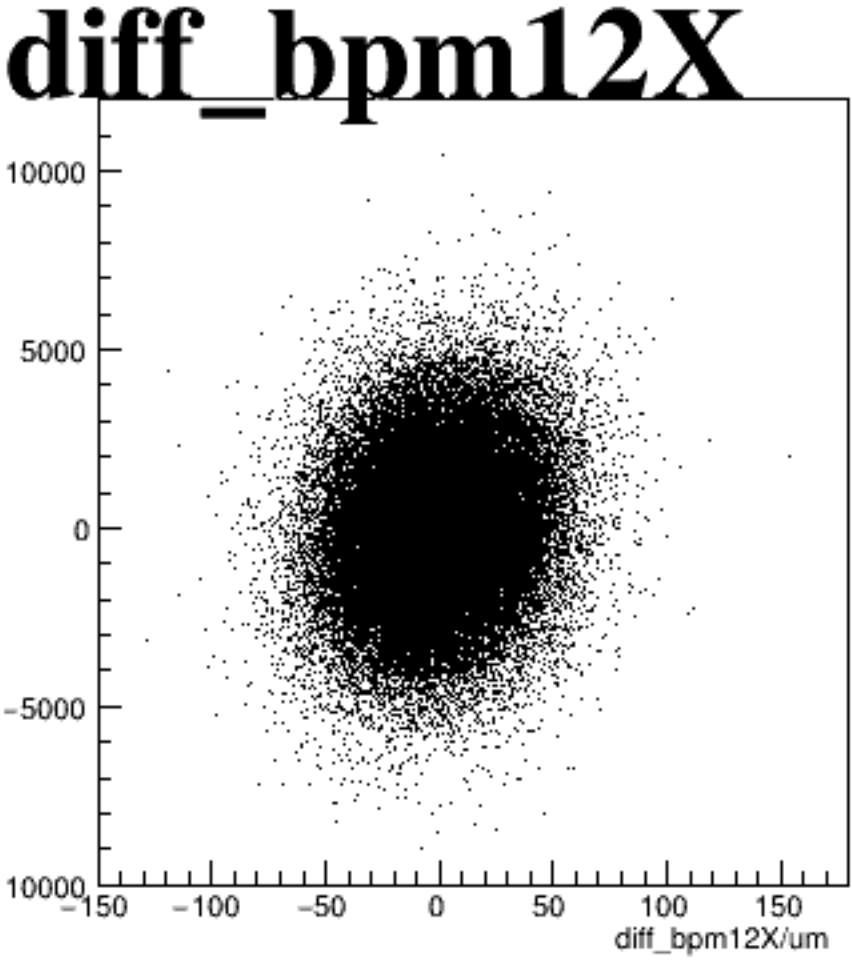
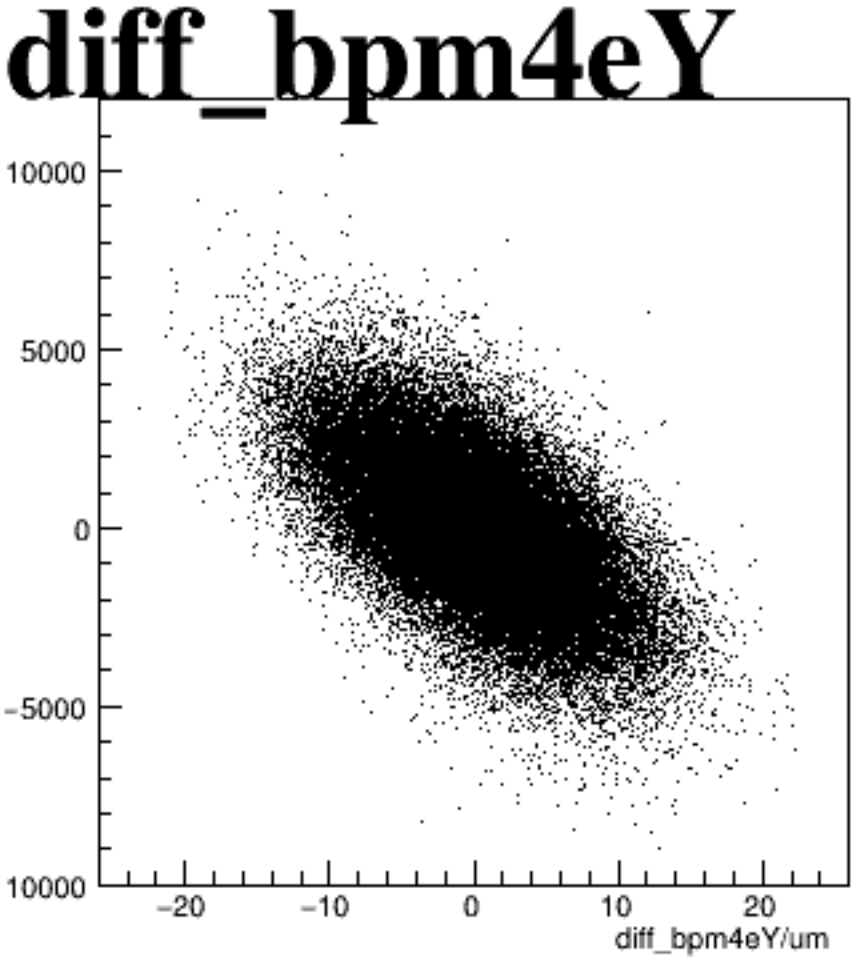
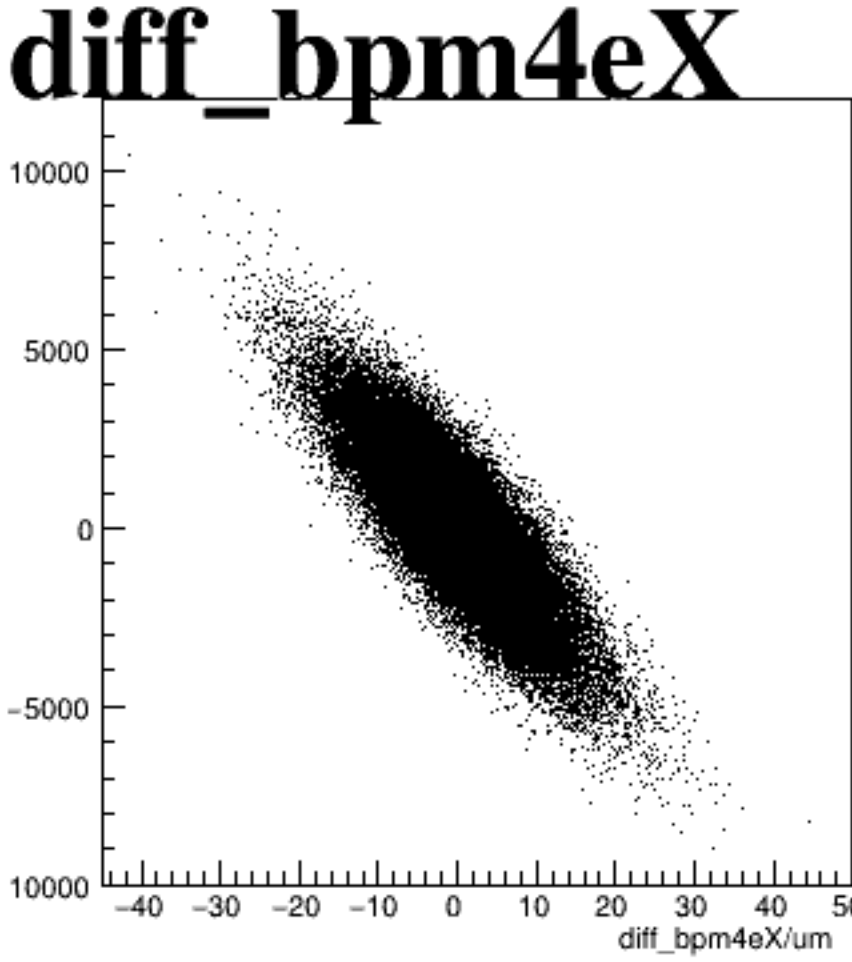
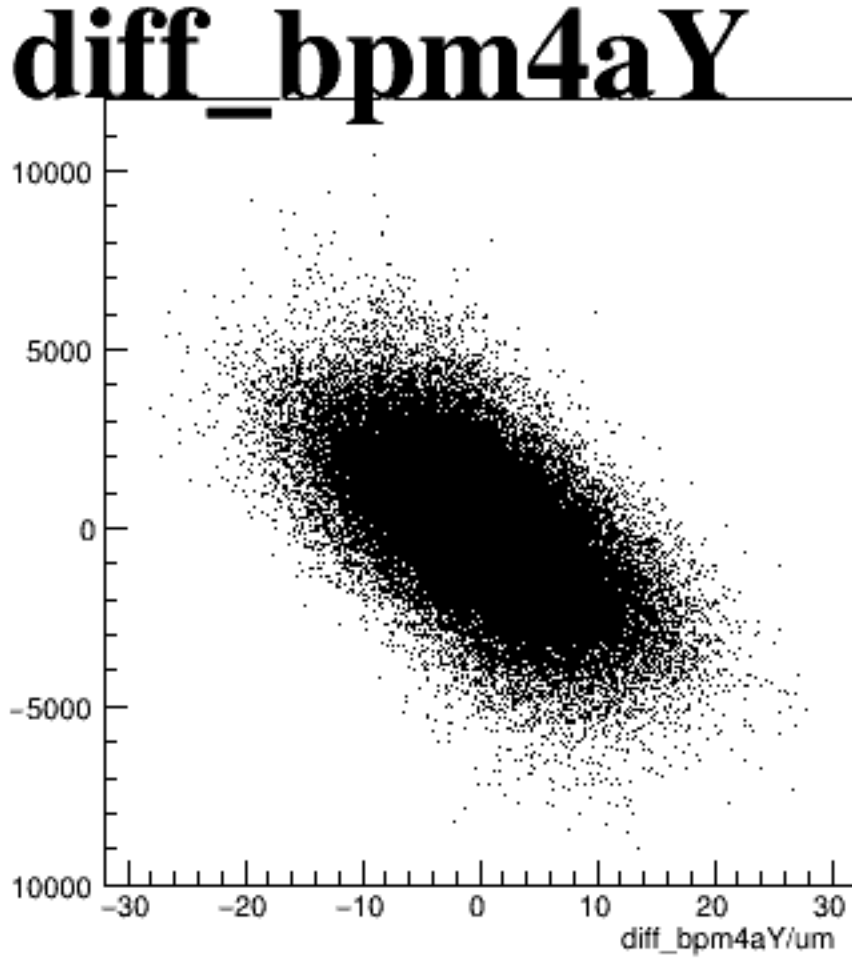
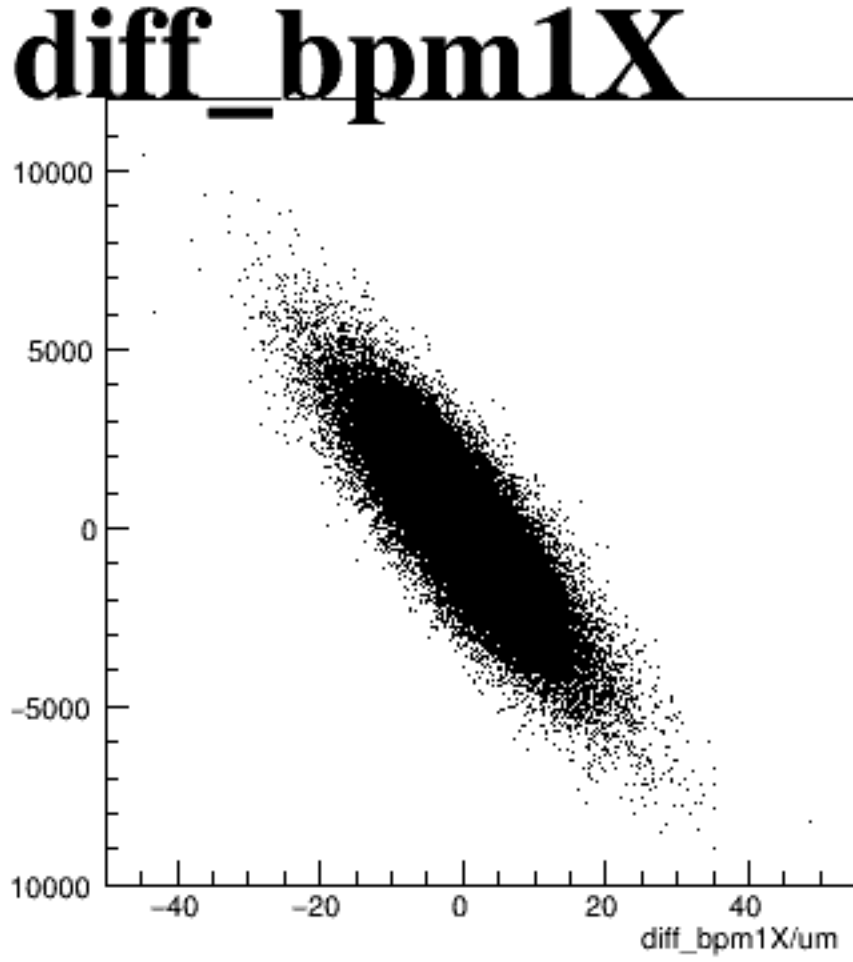
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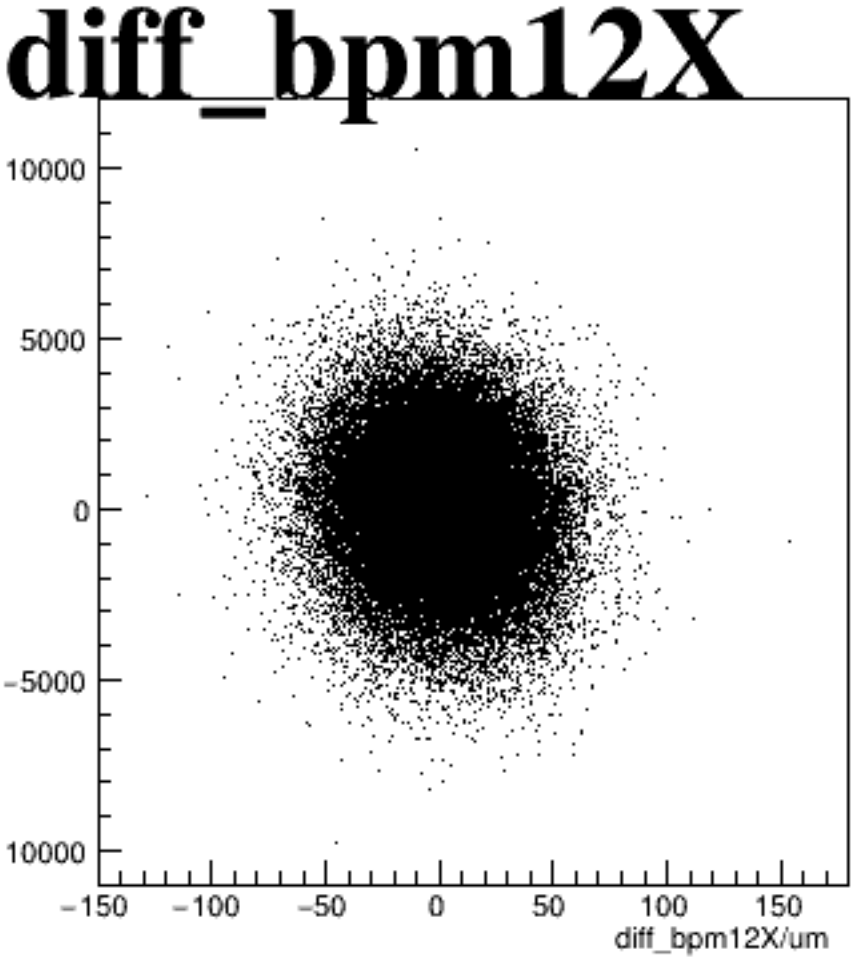
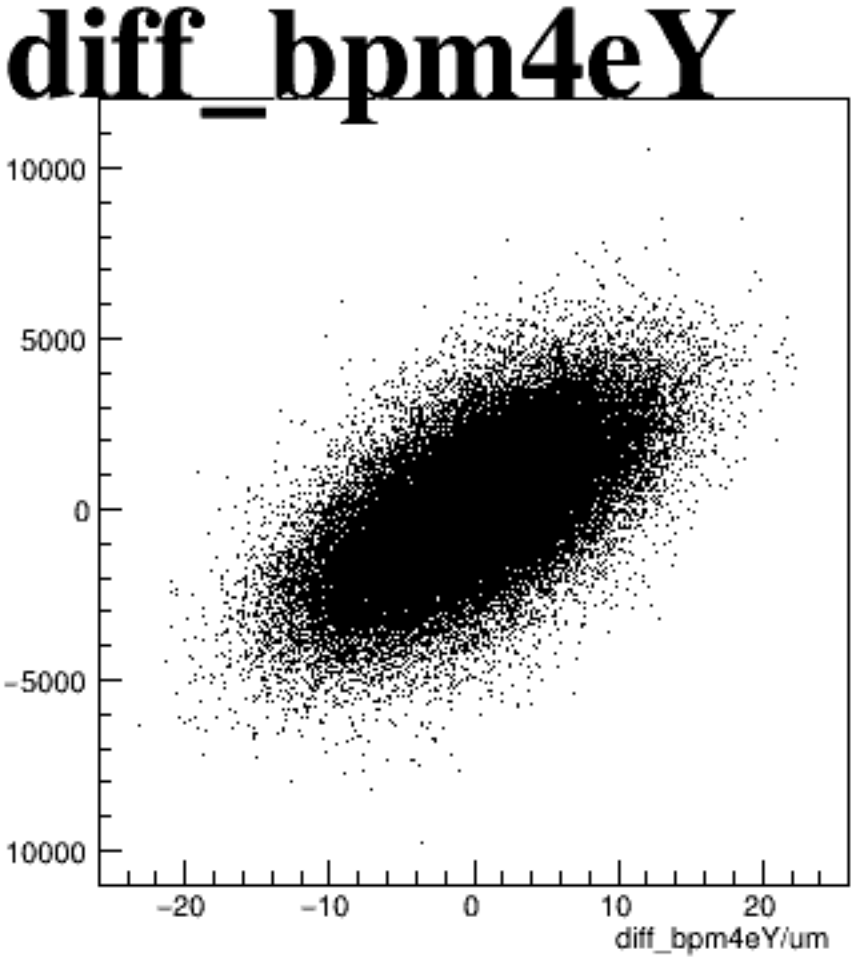
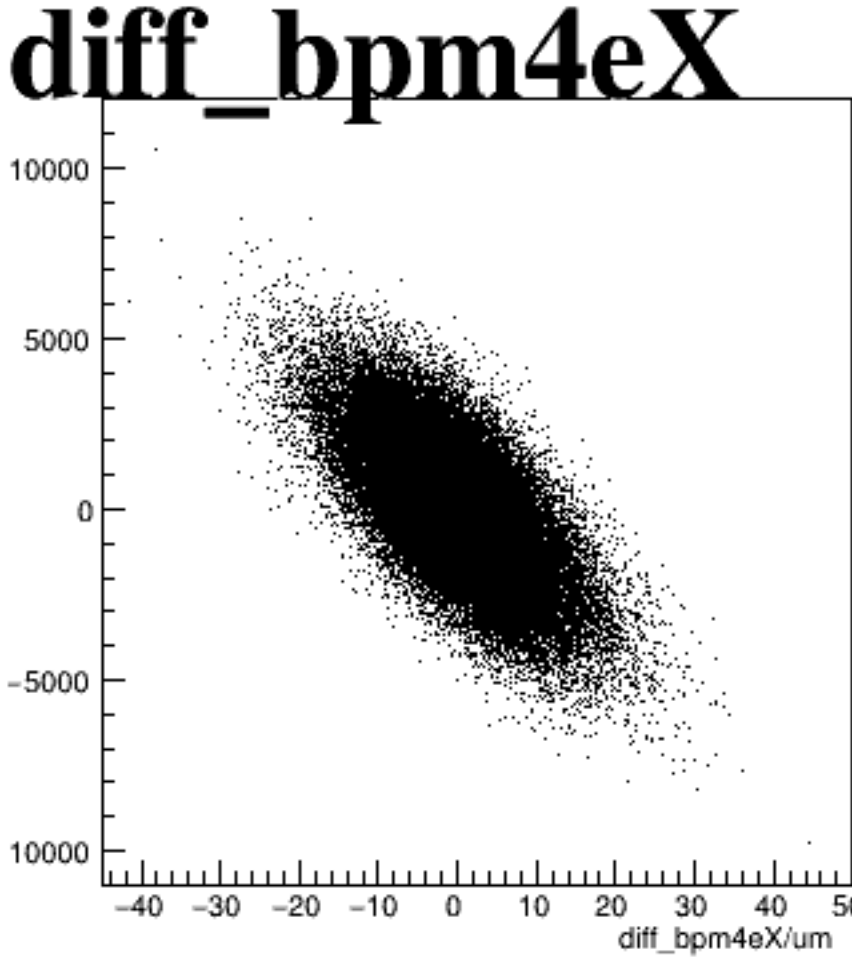
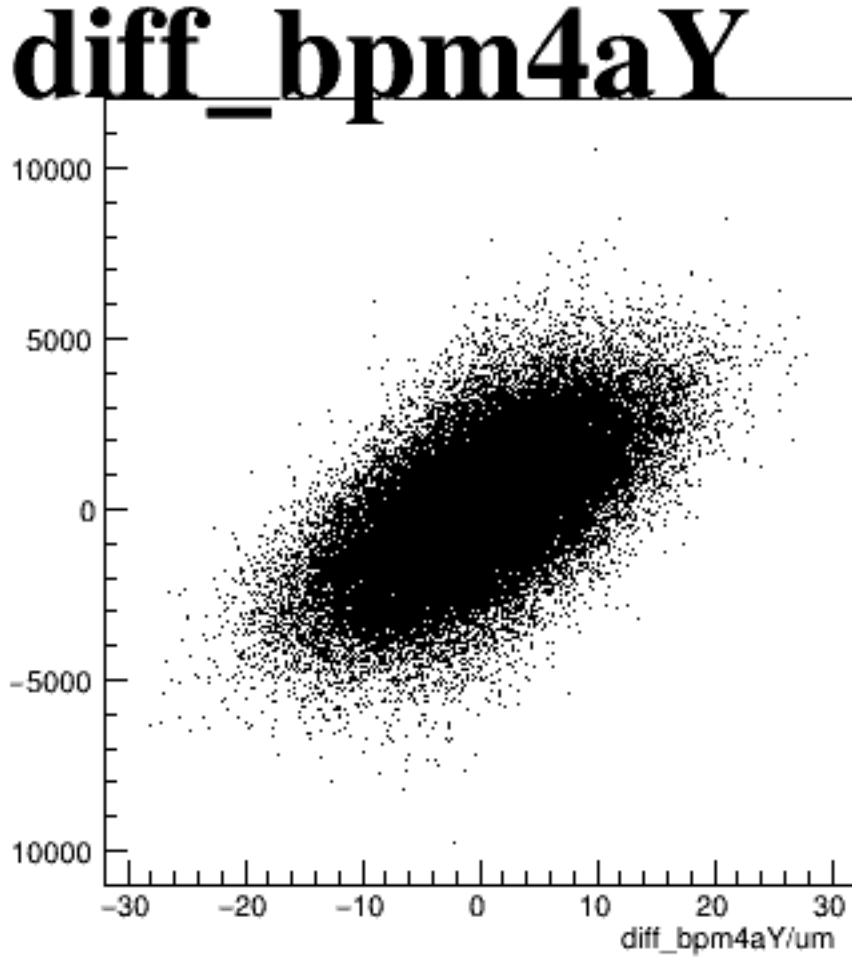
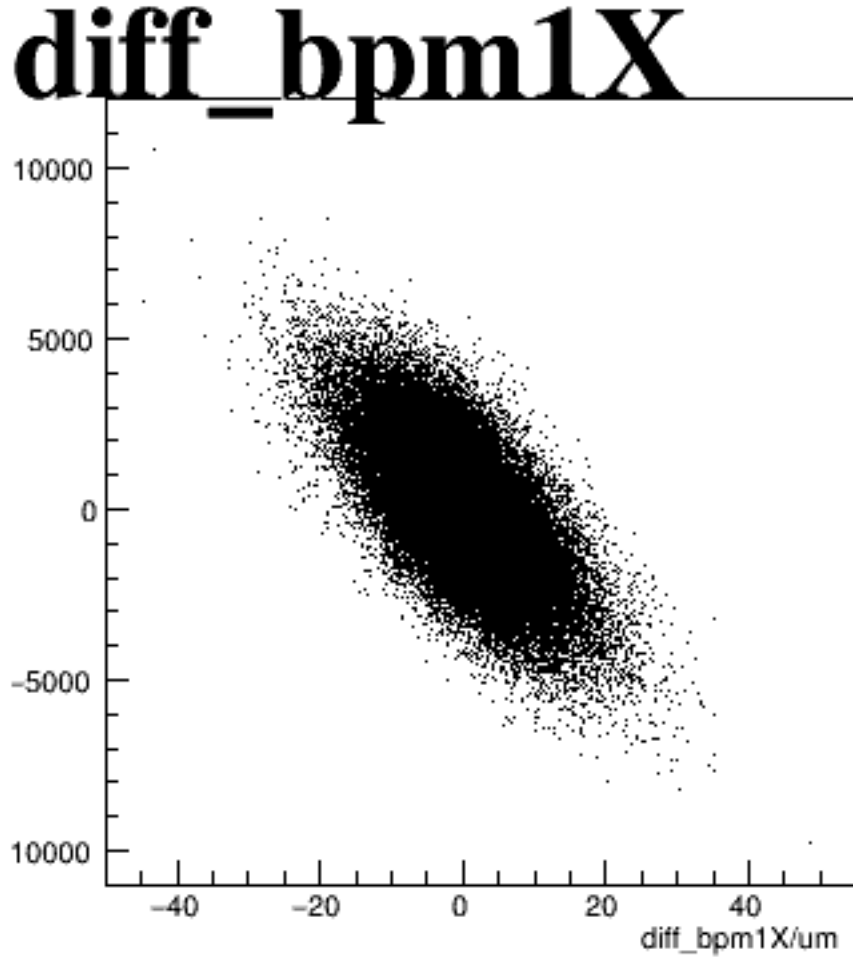
reg_asym_sam8



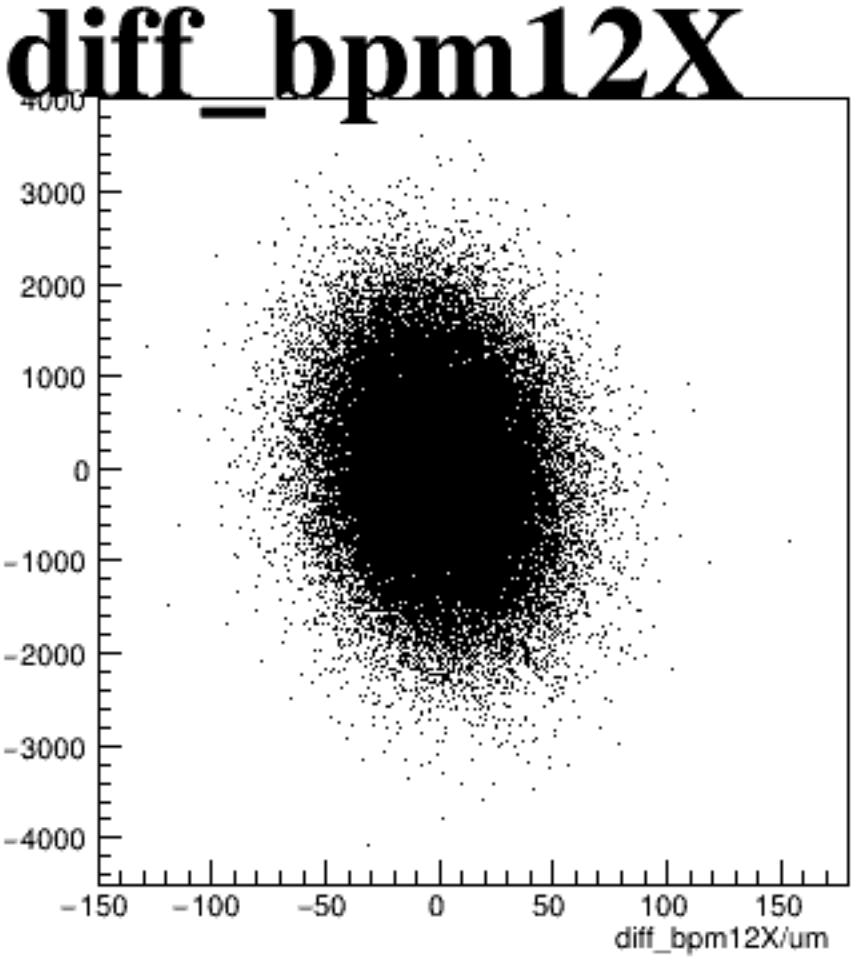
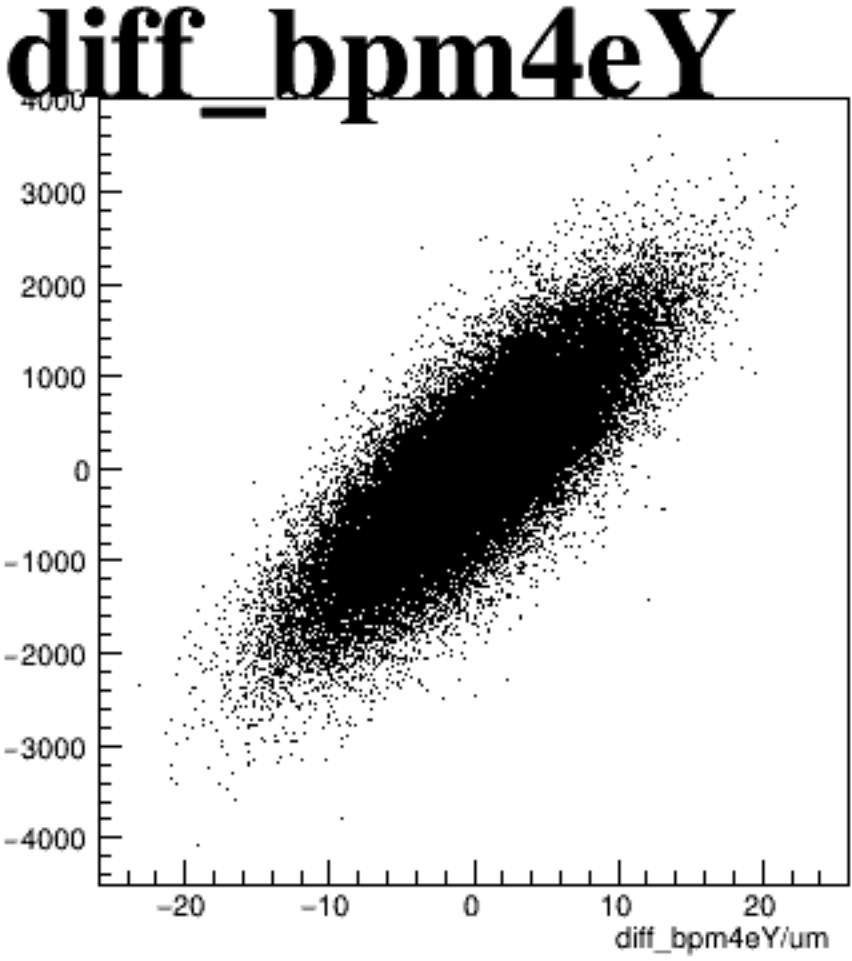
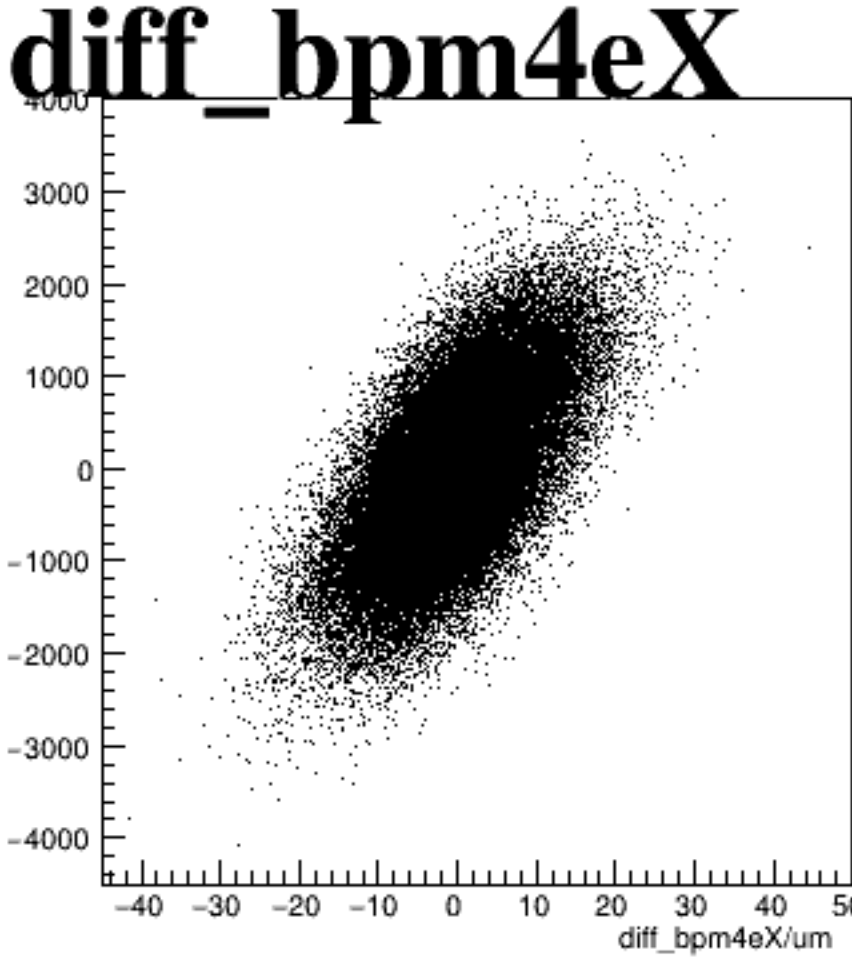
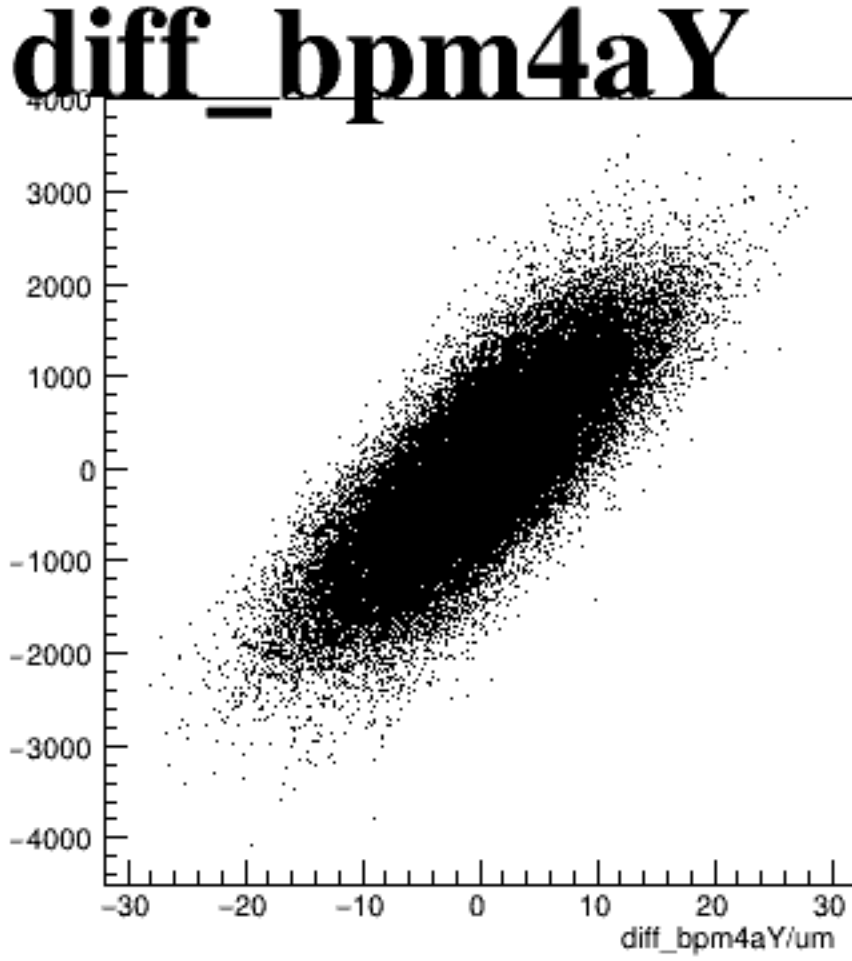
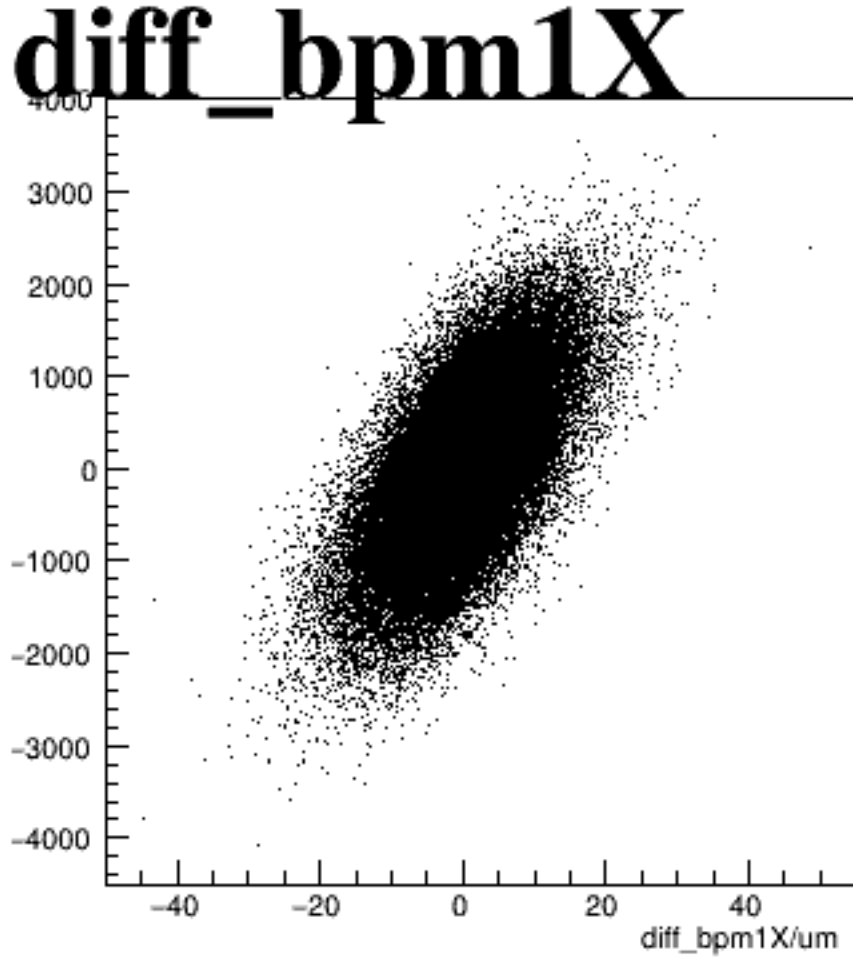
asym_sam2



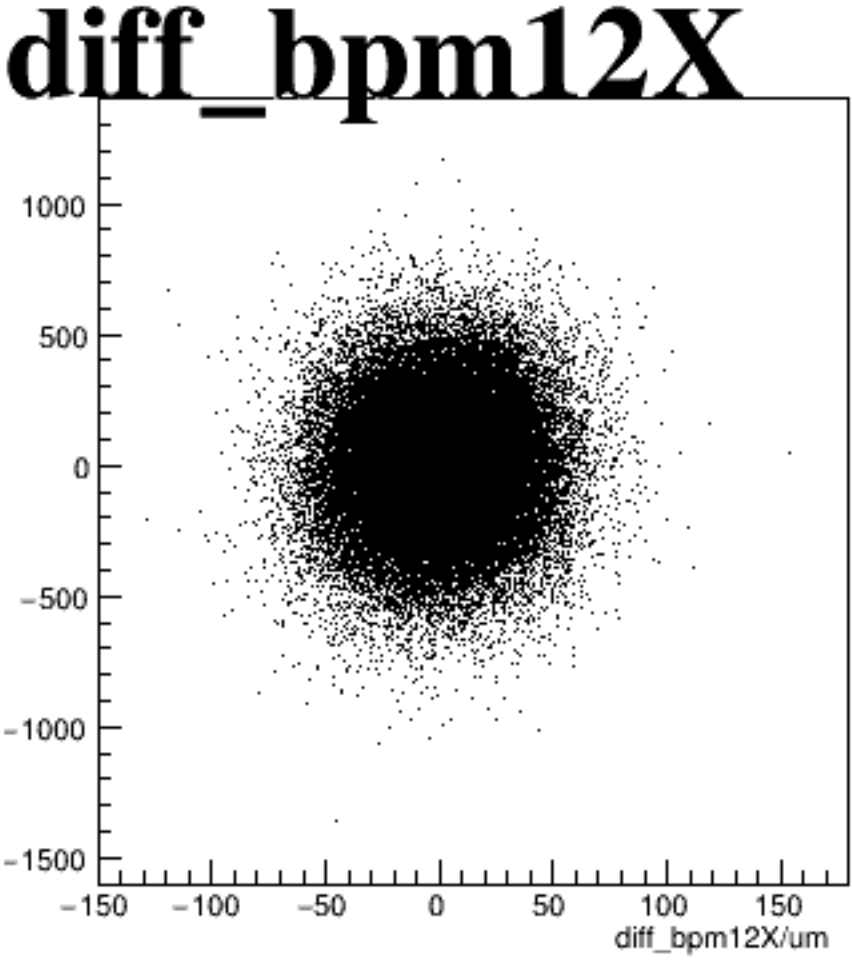
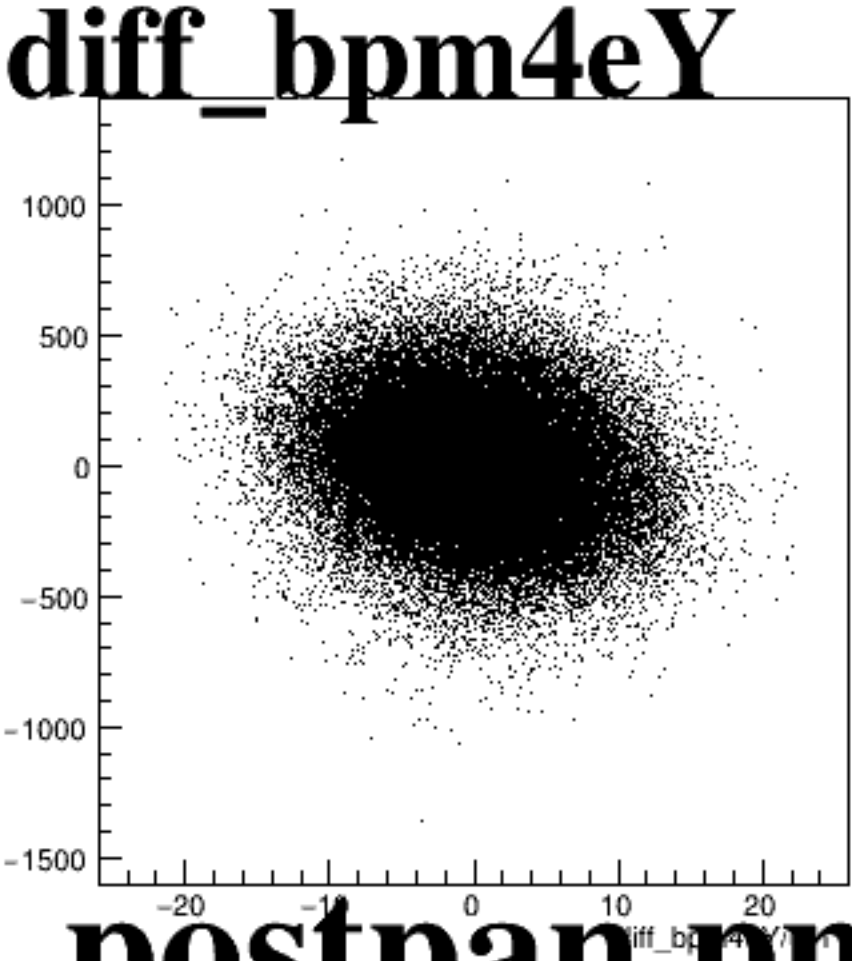
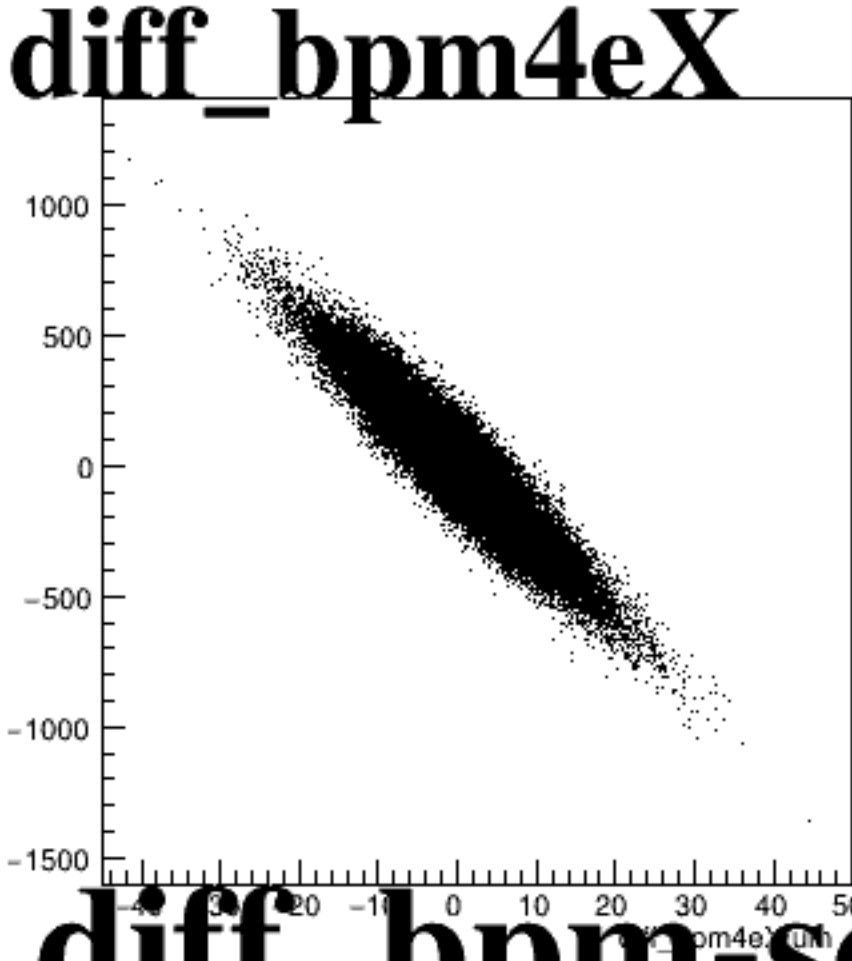
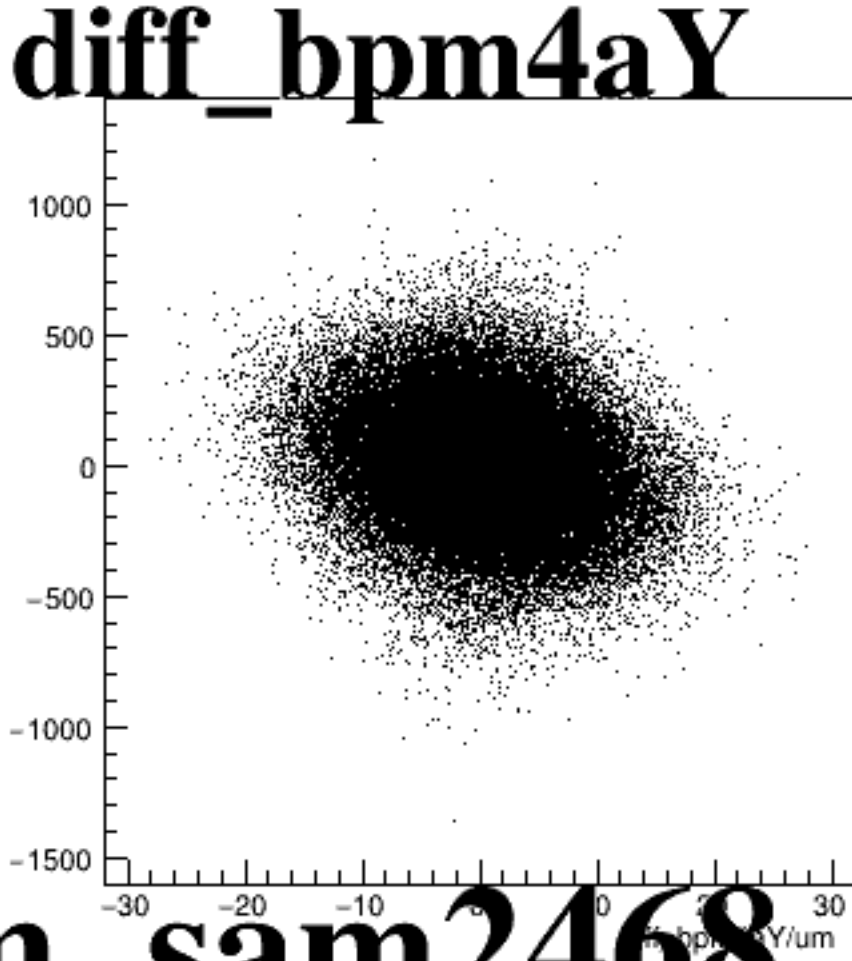
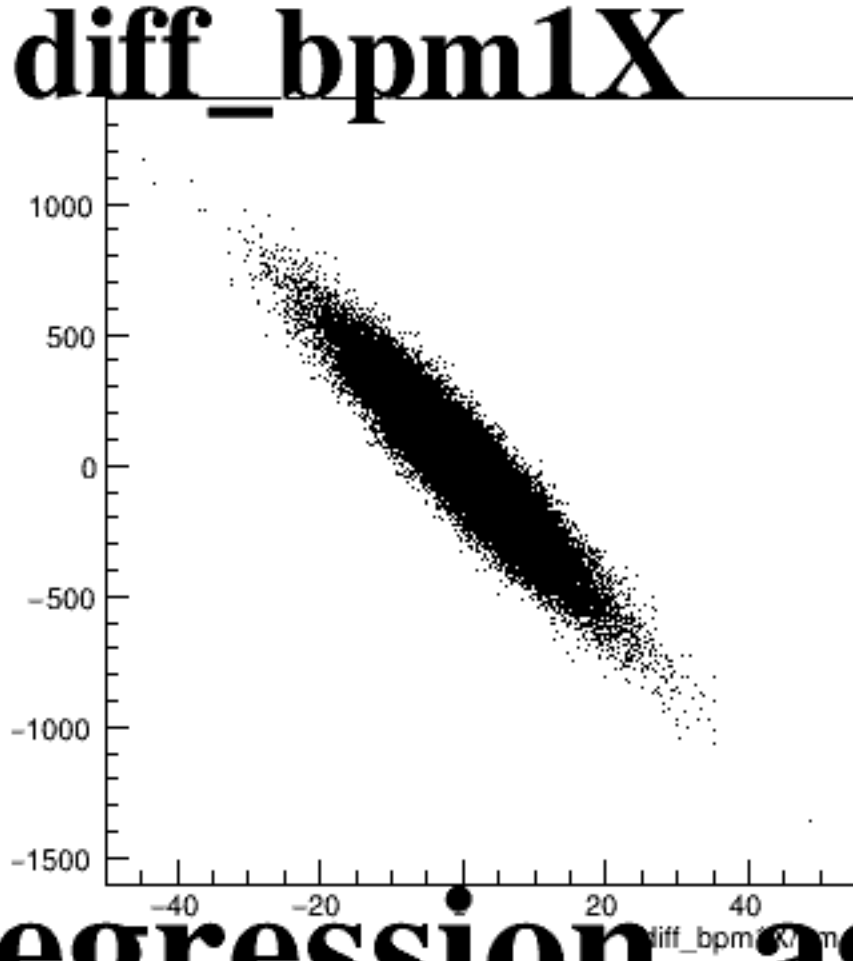
asym_sam4



asym_sam6



asym_sam8

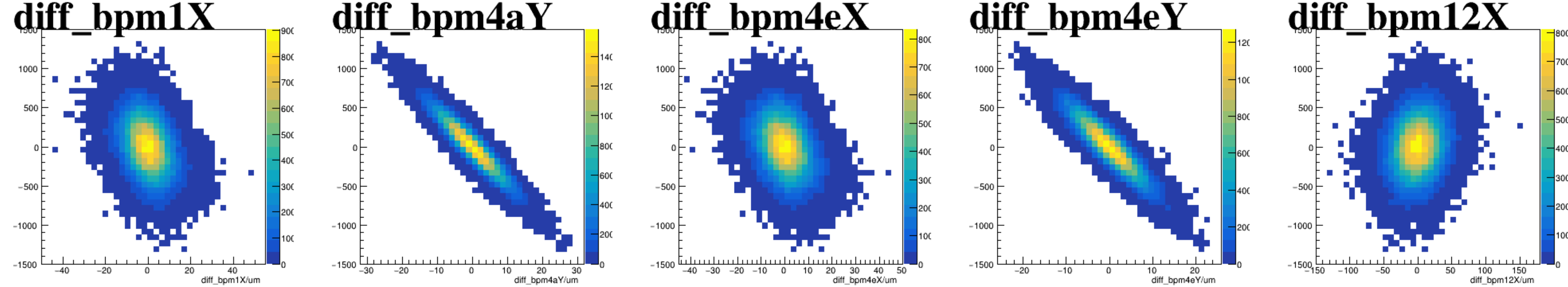


The figure consists of five scatter plots arranged horizontally, each showing the distribution of a specific diffraction order. The y-axis for all plots ranges from -600 to 600. The x-axis for each plot is labeled as follows:

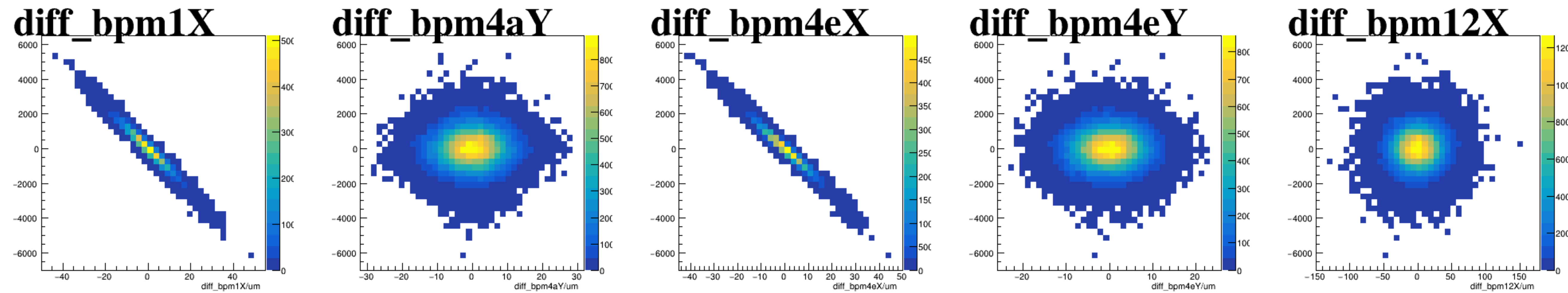
- diff_bpm1X**: x-axis ranges from -40 to 40.
- diff_bpm4aY**: x-axis ranges from -30 to 30.
- diff_bpm4eX**: x-axis ranges from -40 to 50.
- diff_bpm4eY**: x-axis ranges from -20 to 20.
- diff_bpm12X**: x-axis ranges from -150 to 150.

Each plot shows a dense, roughly circular cloud of points centered at the origin (0,0), representing the spatial distribution of that diffraction order.

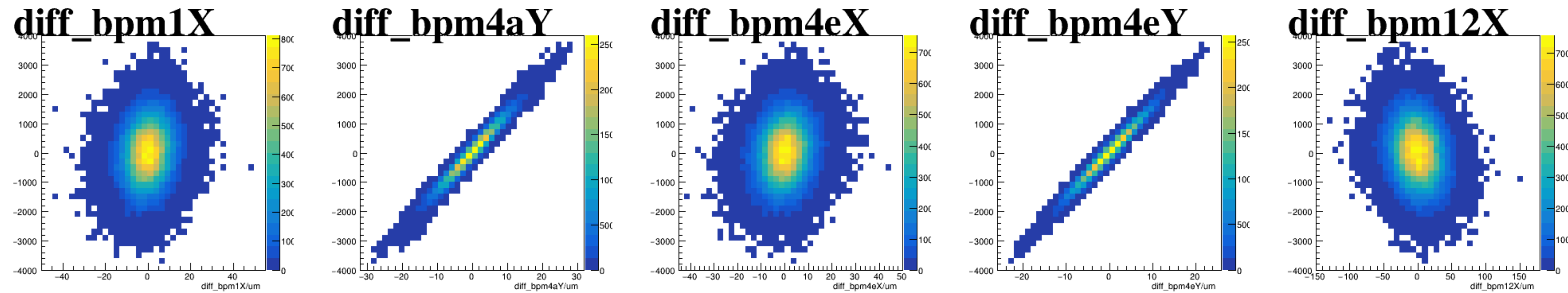
asym_sam1



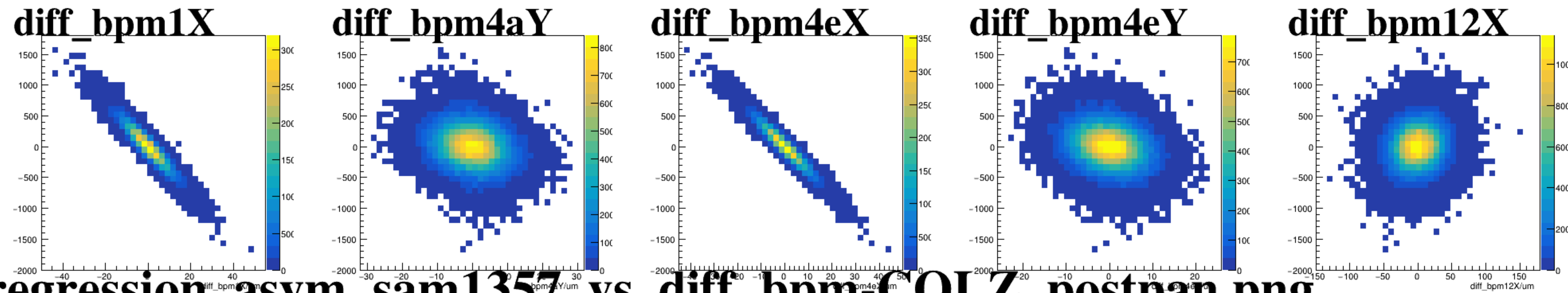
asym_sam3



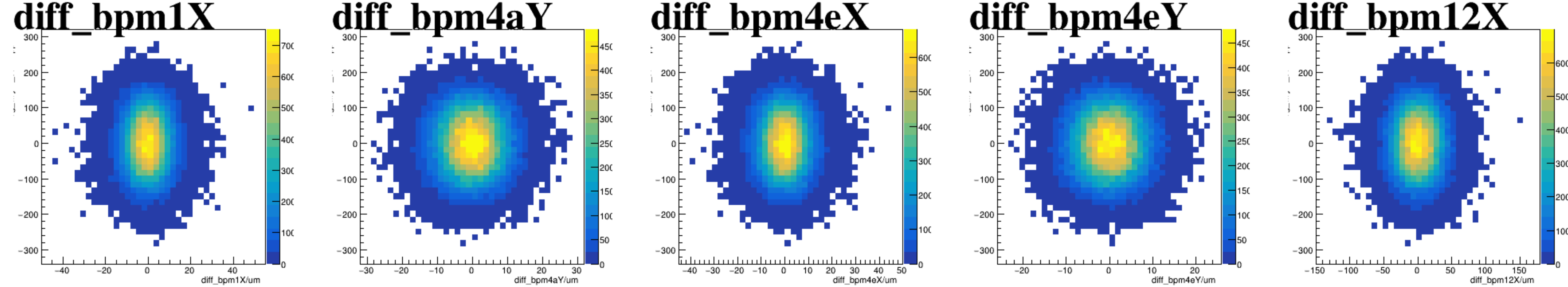
asym_sam5



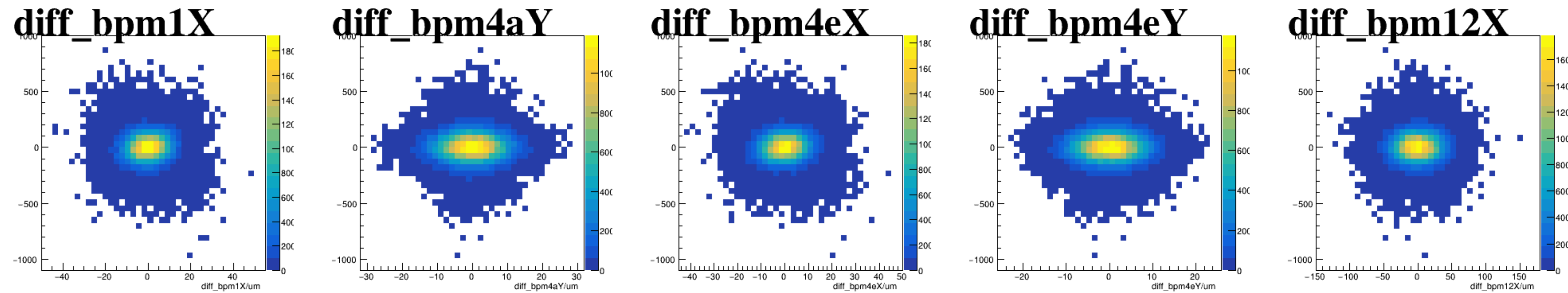
asym_sam7



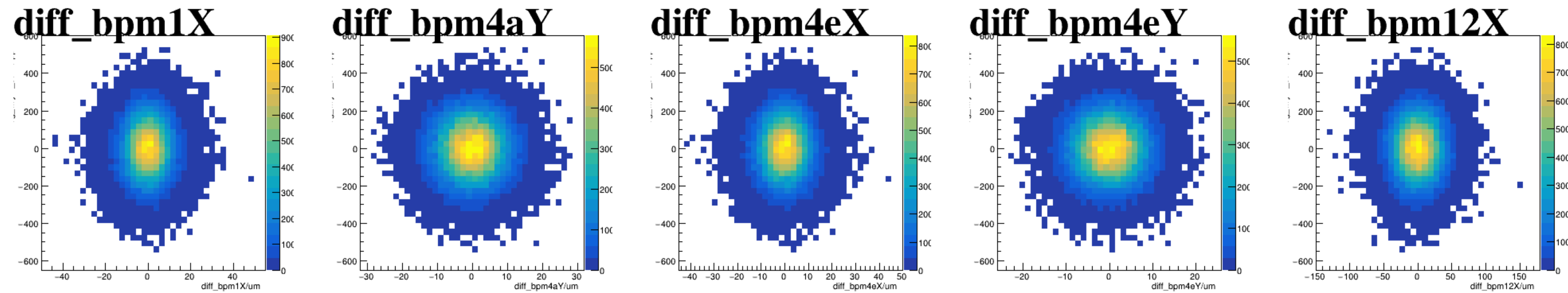
reg_asym_sam1



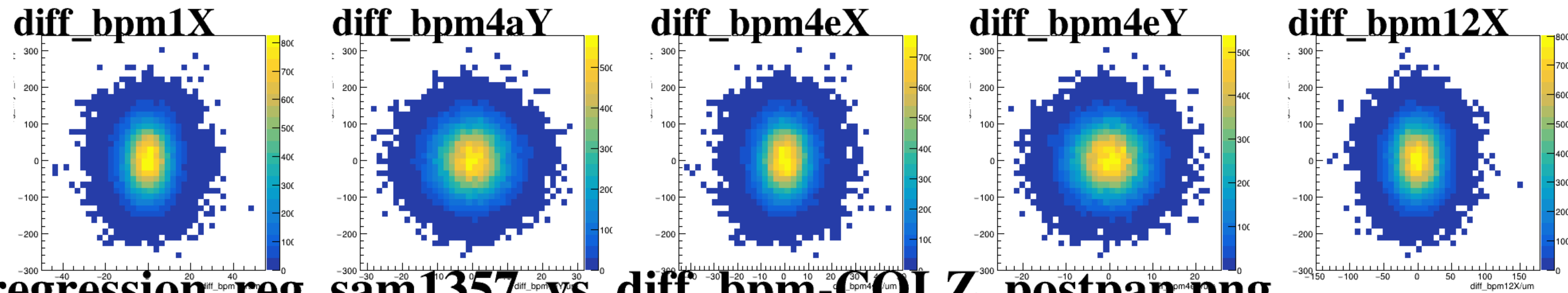
reg_asym_sam3



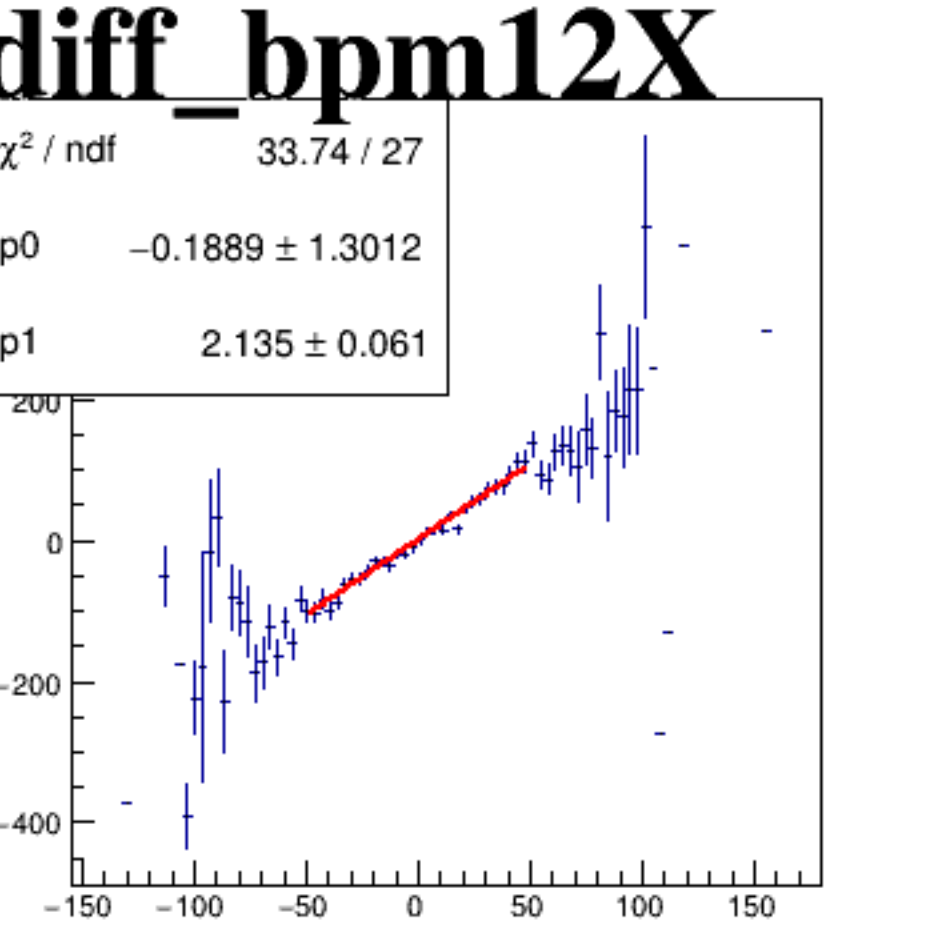
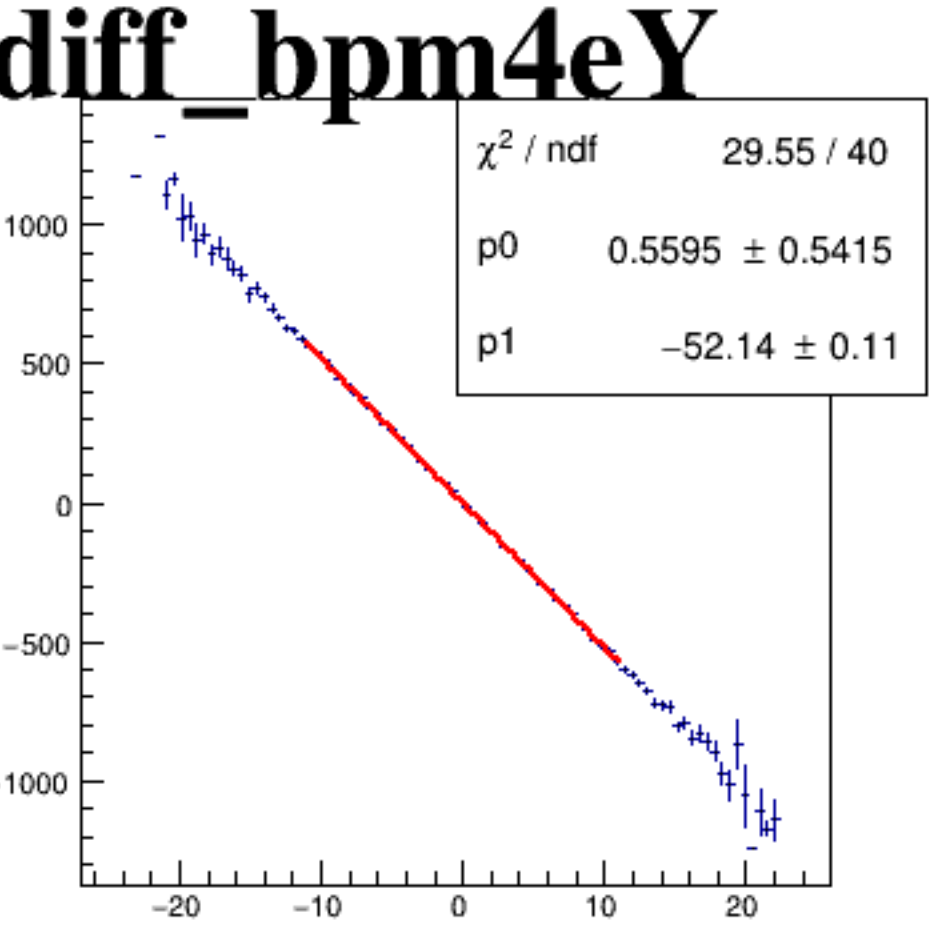
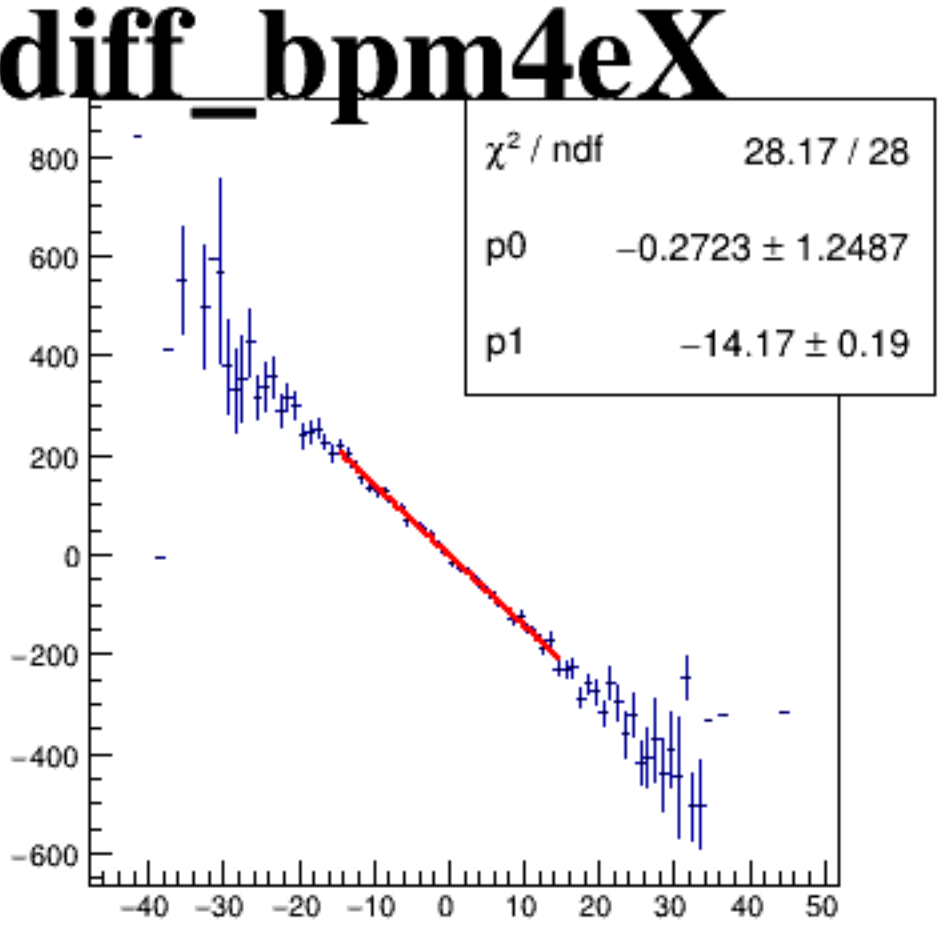
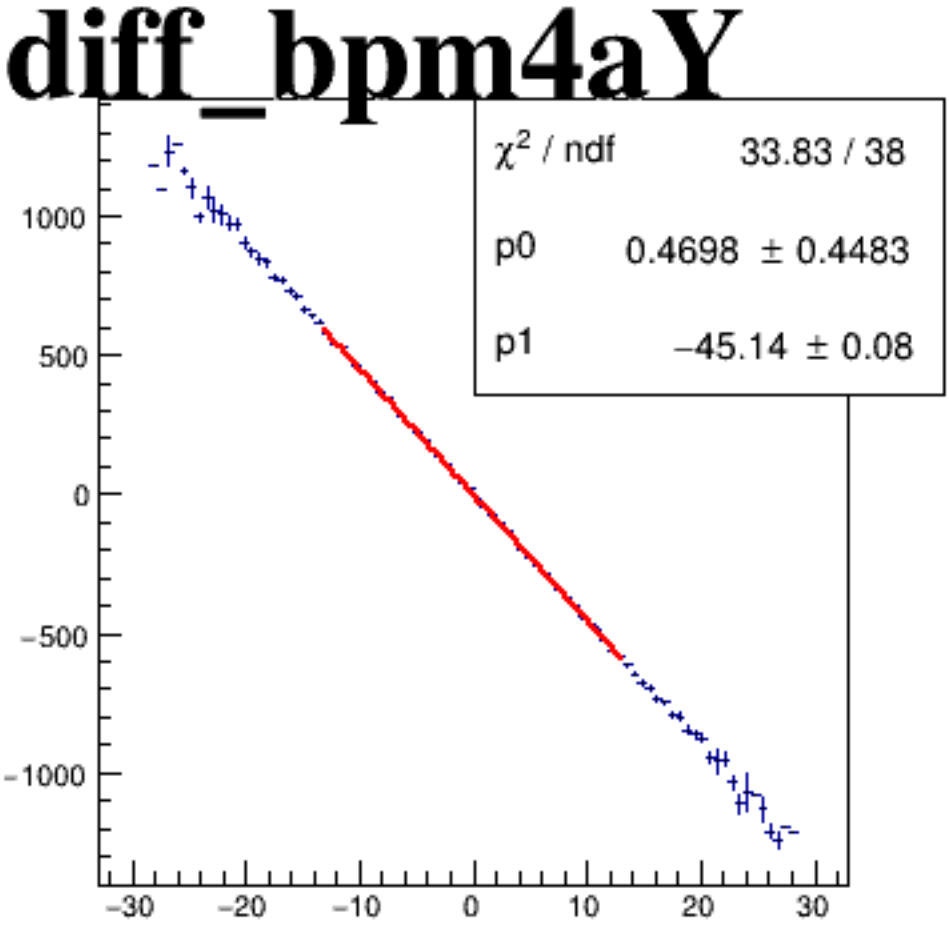
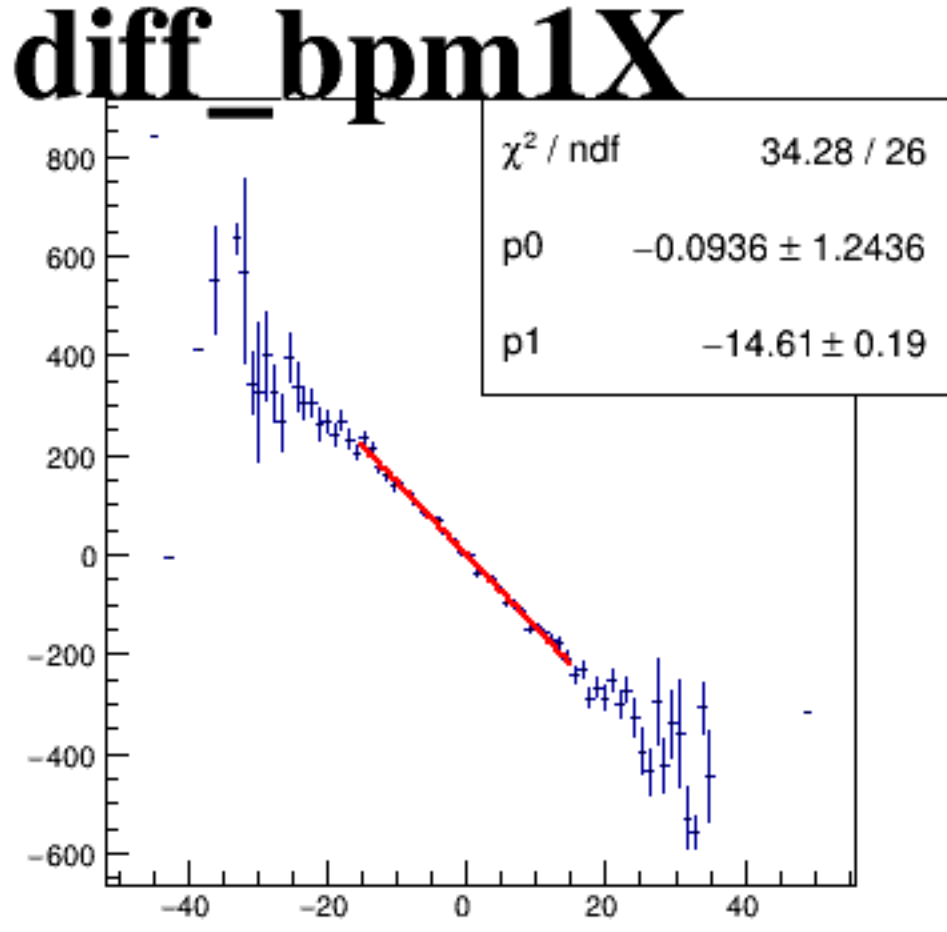
reg_asym_sam5



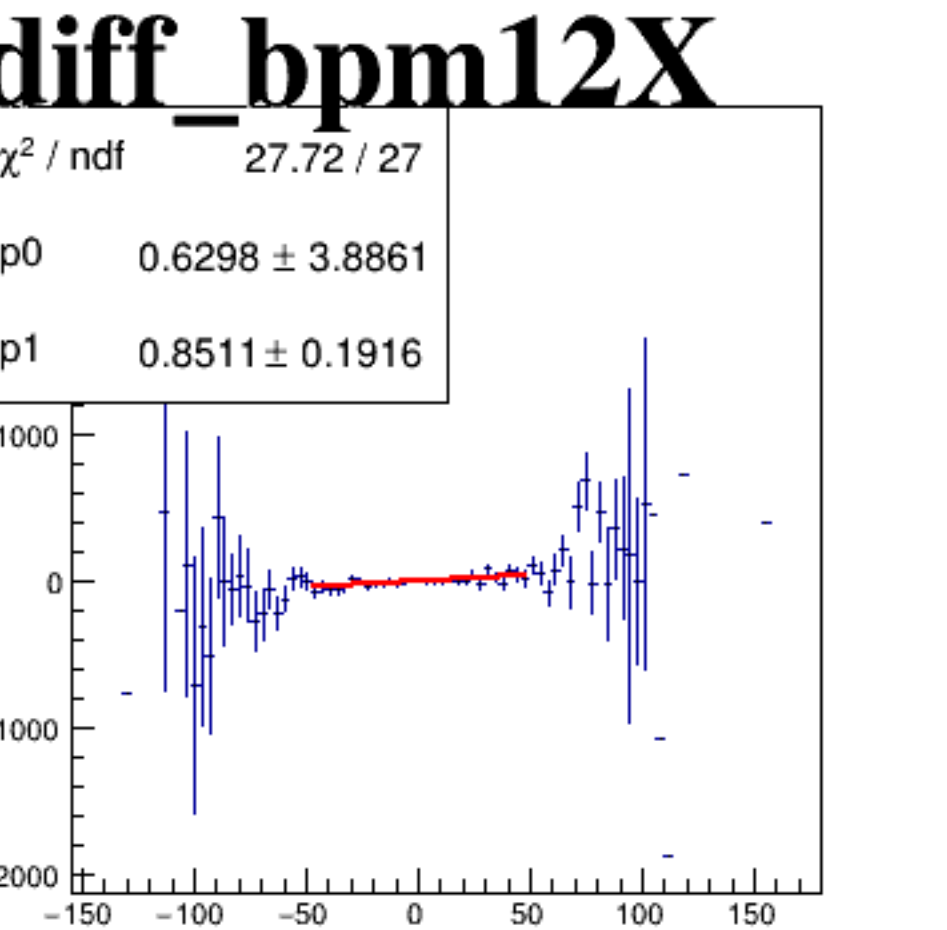
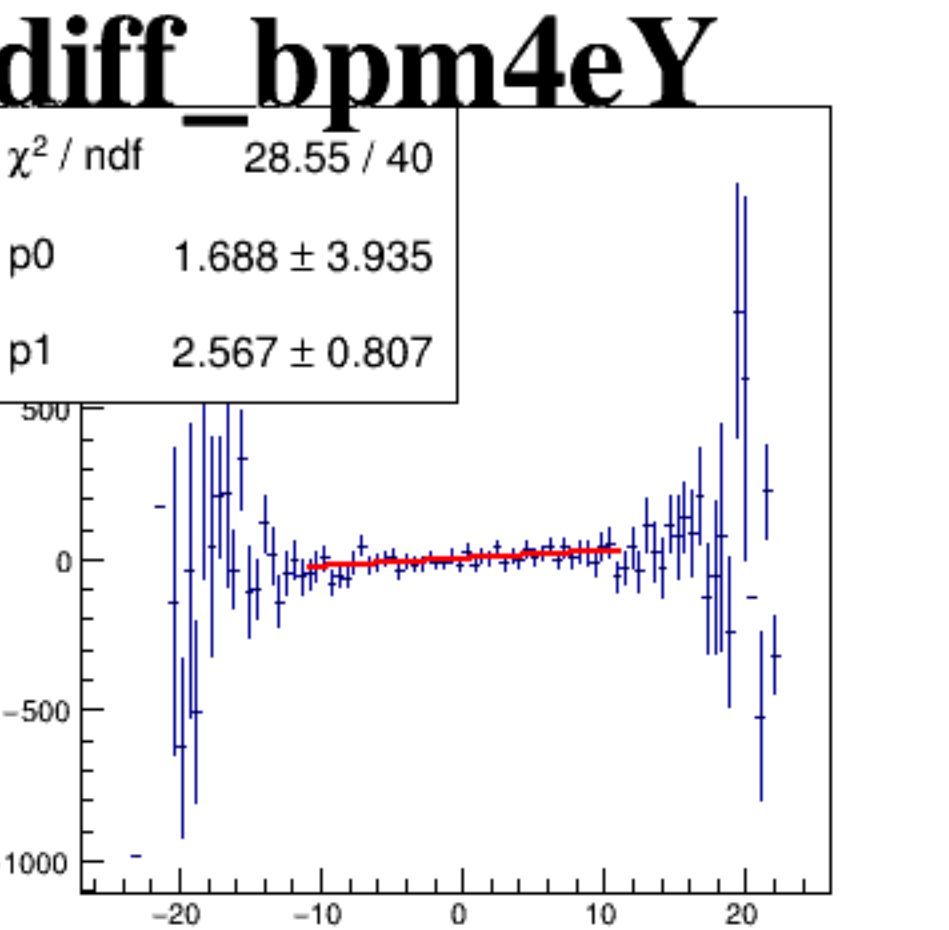
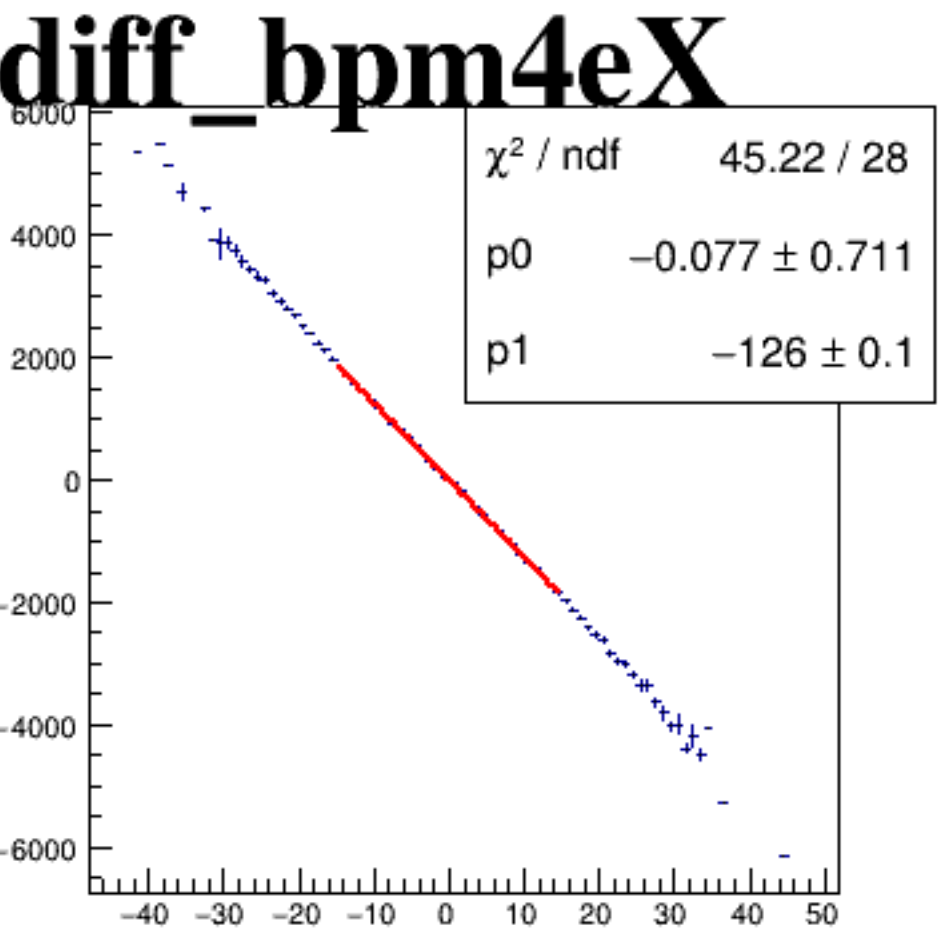
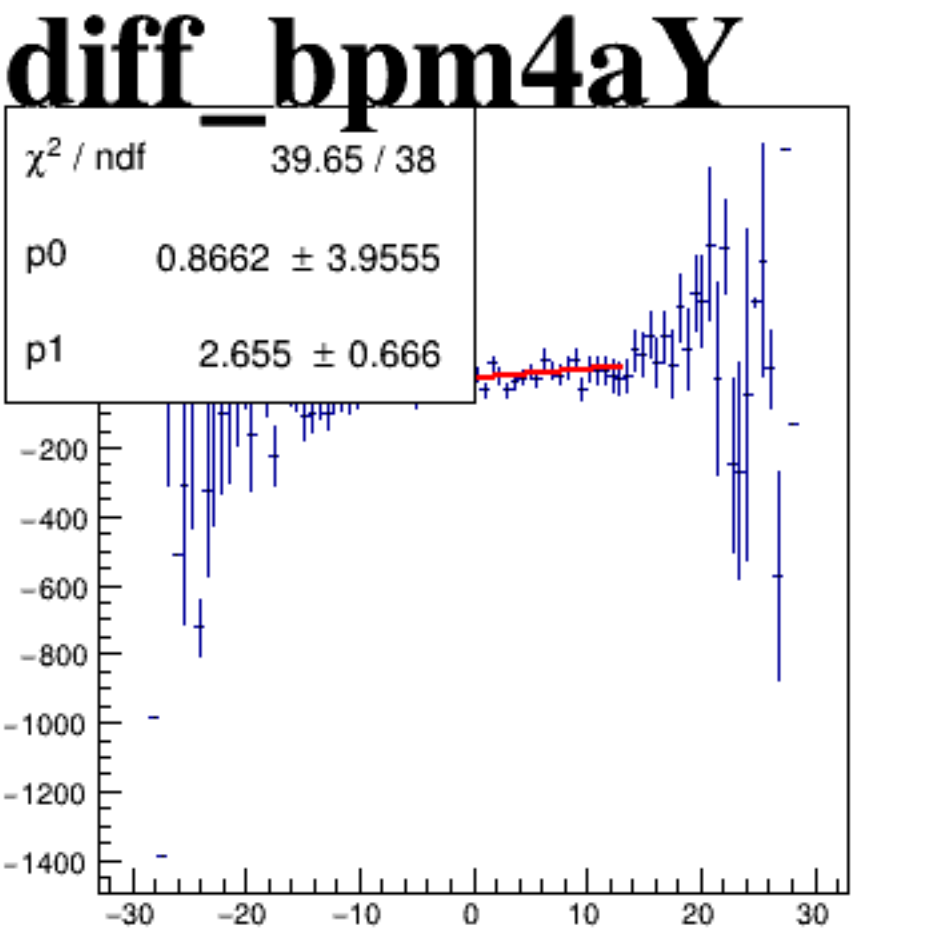
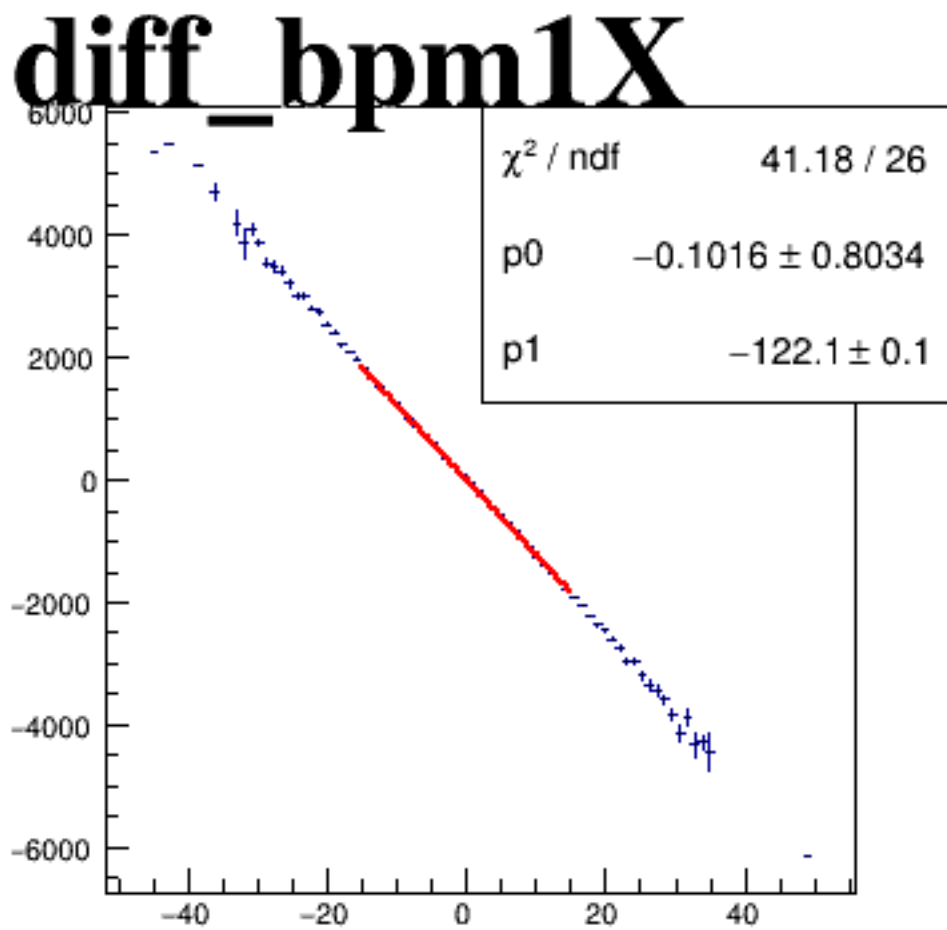
reg_asym_sam7



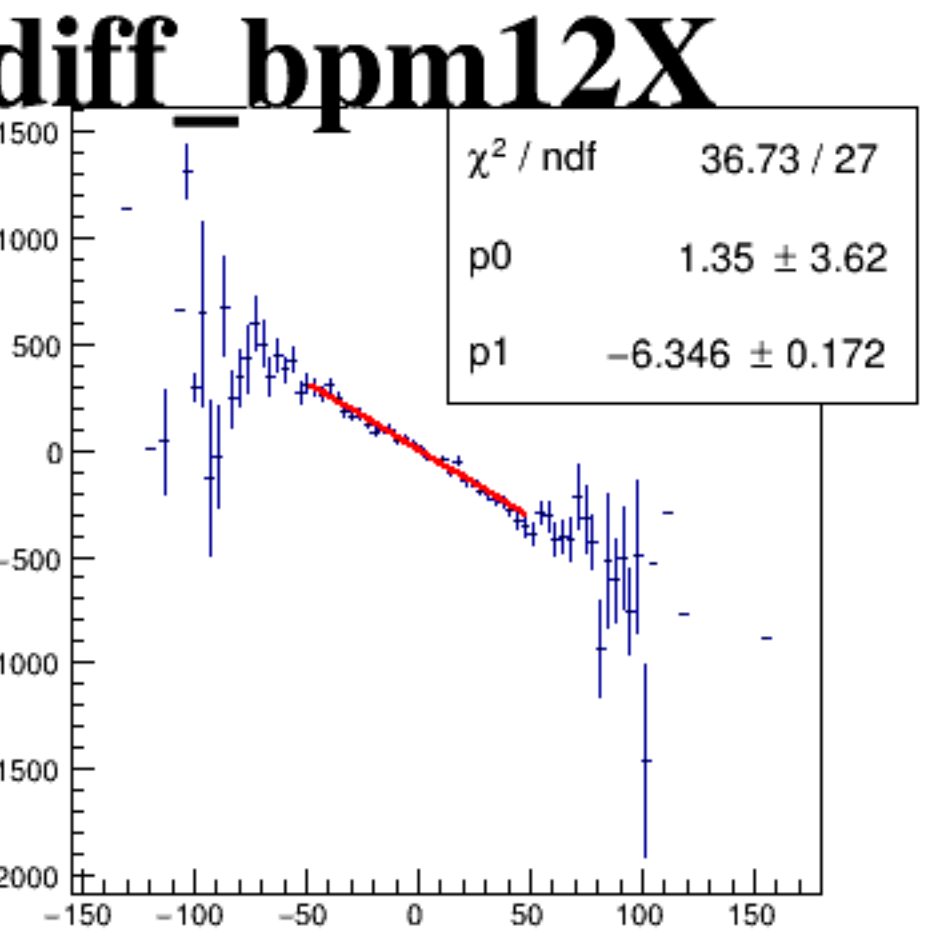
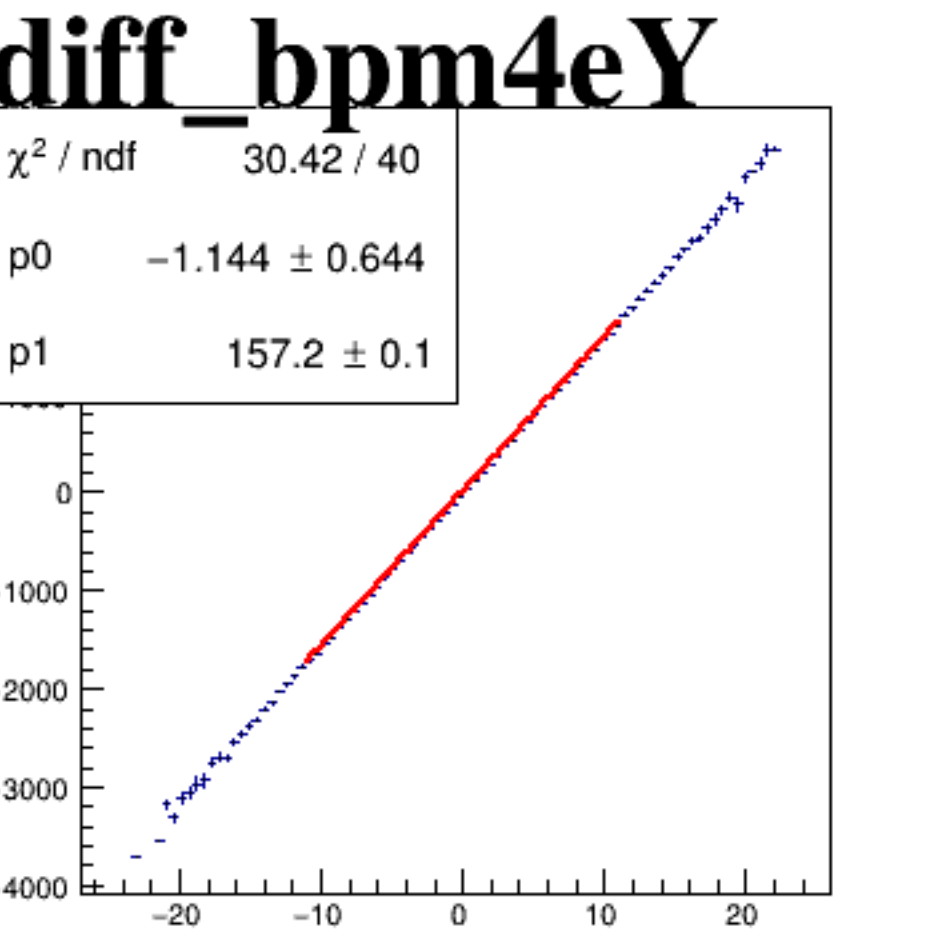
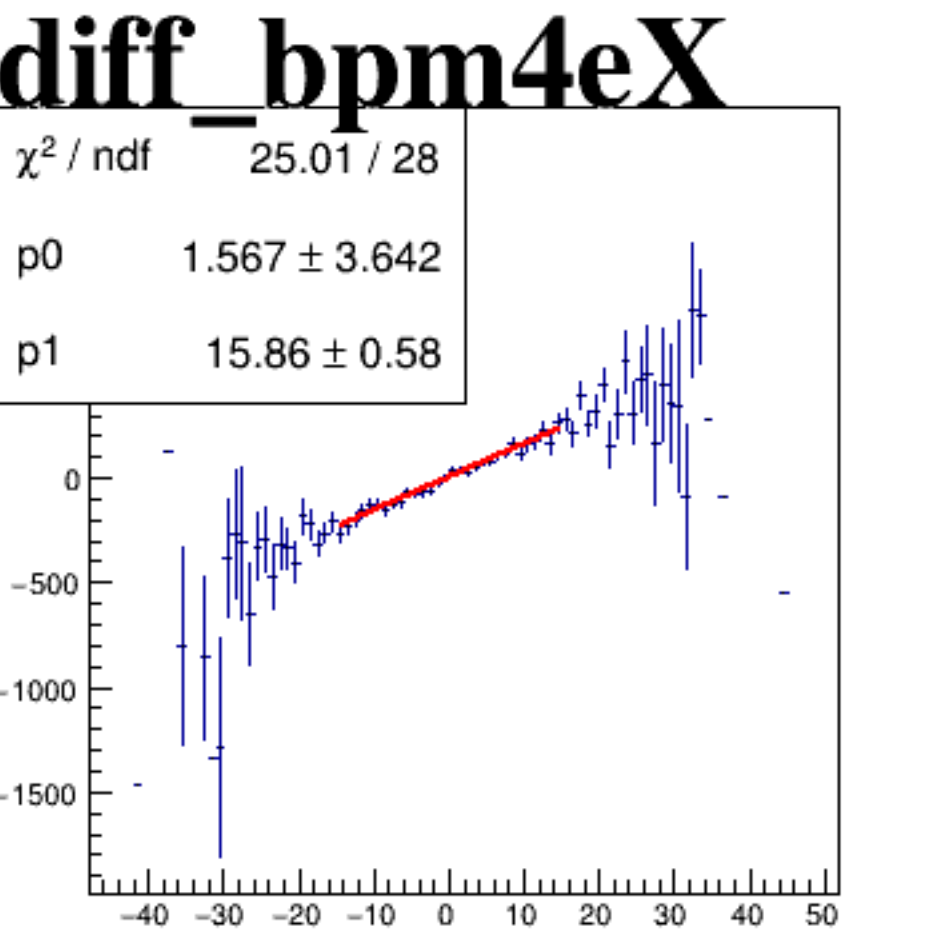
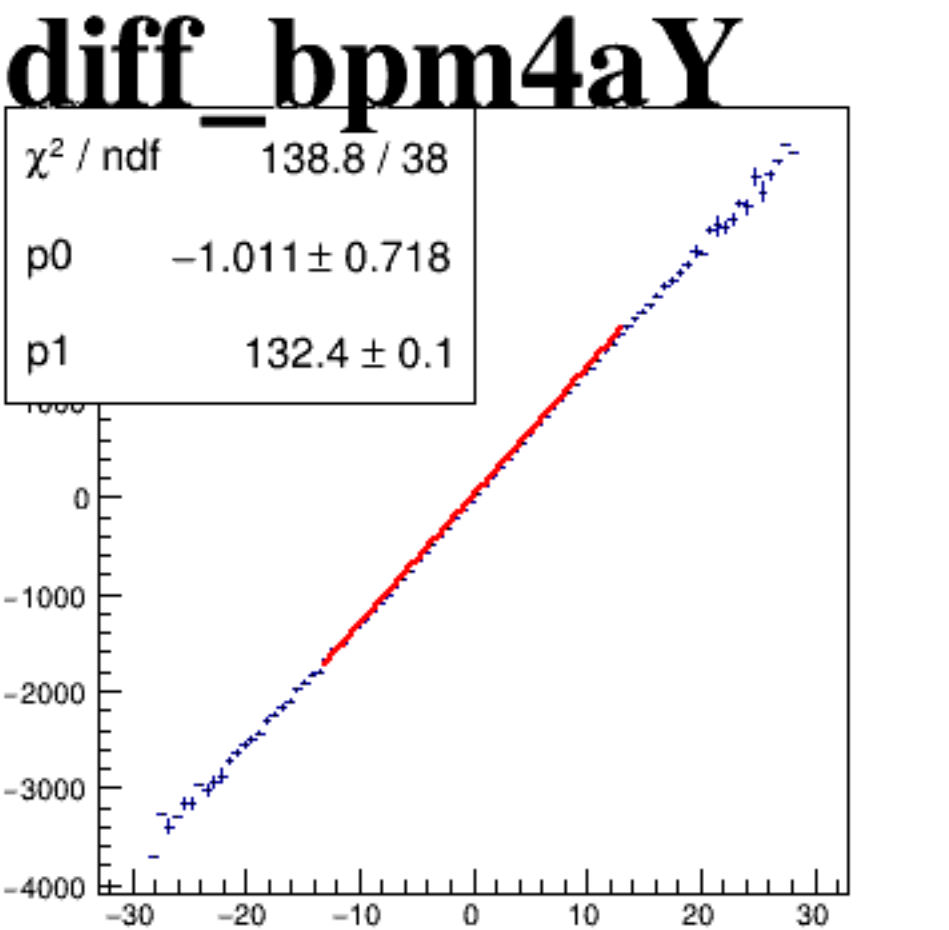
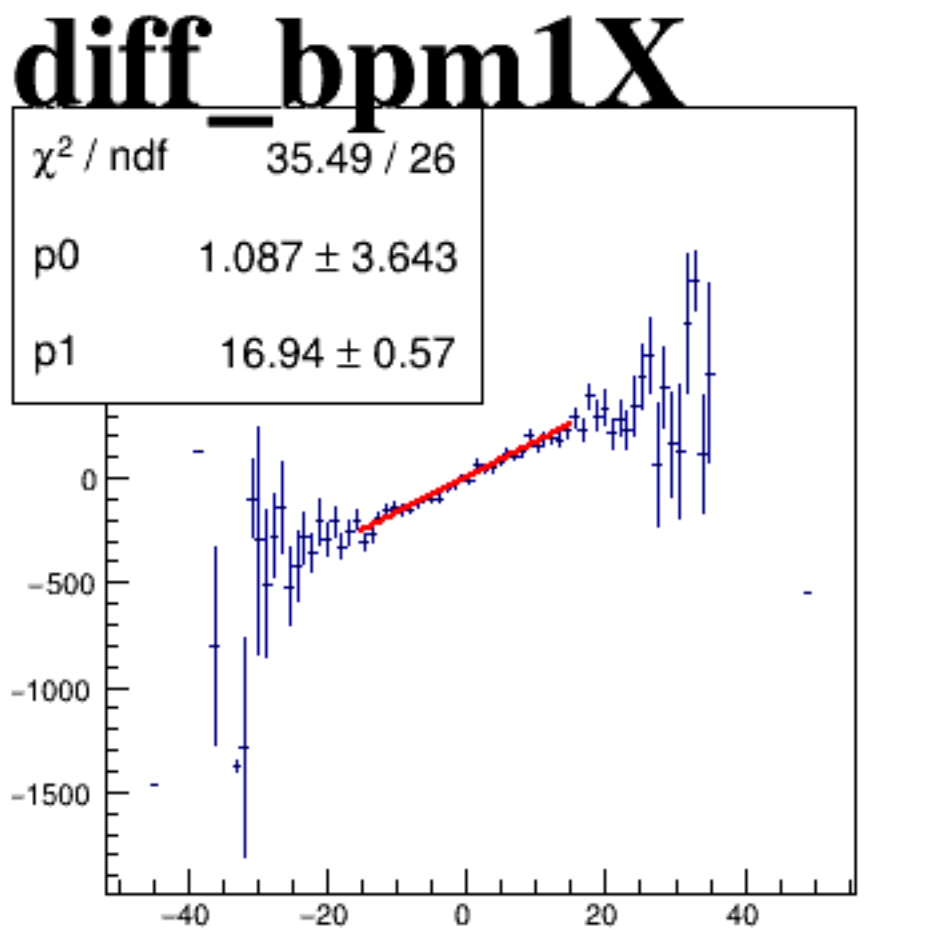
asym_sam1



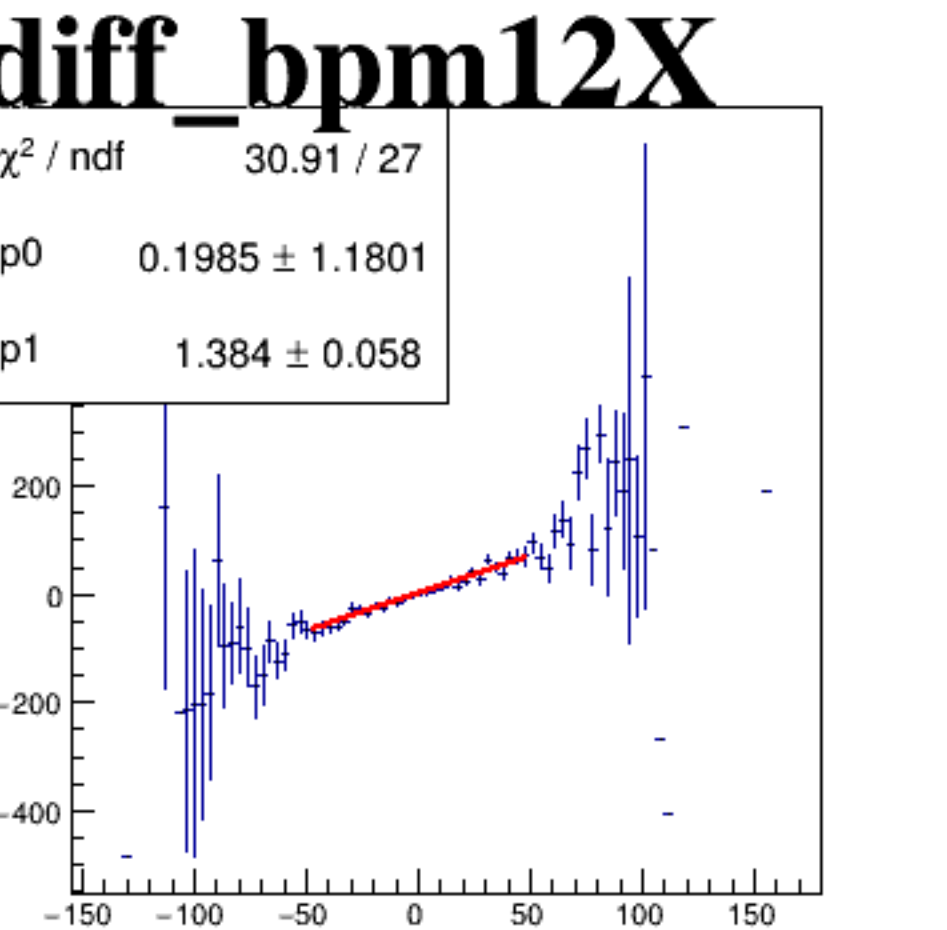
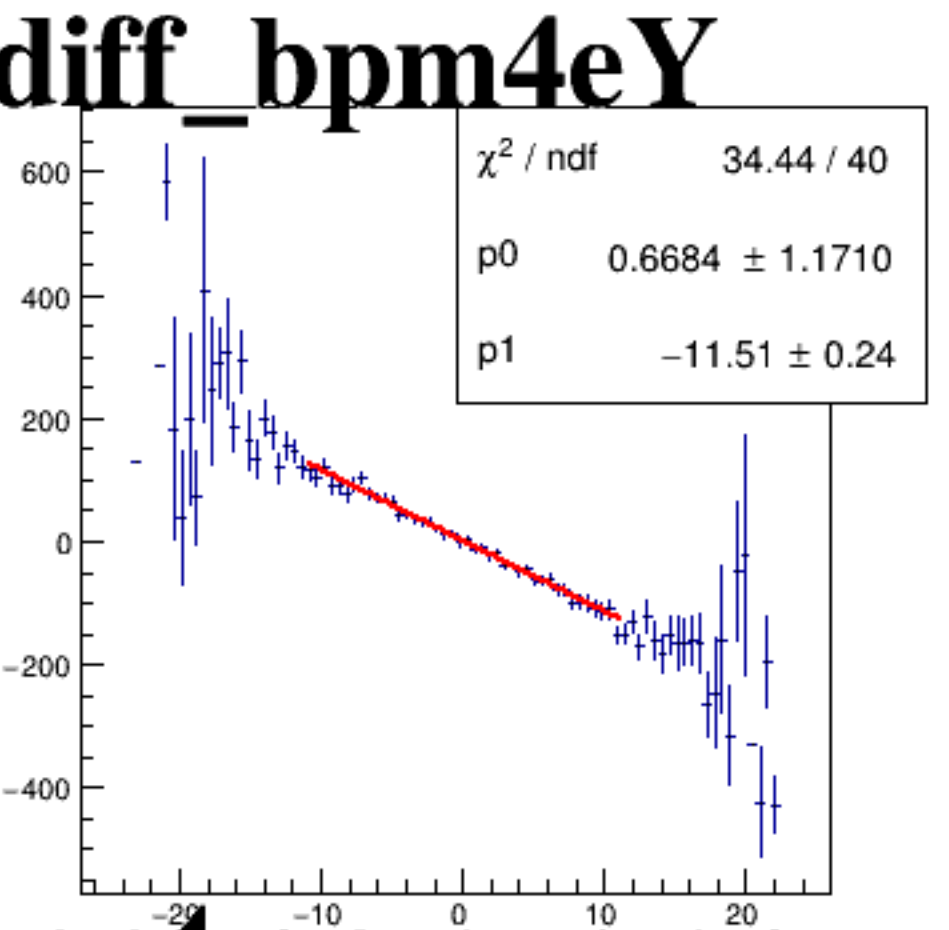
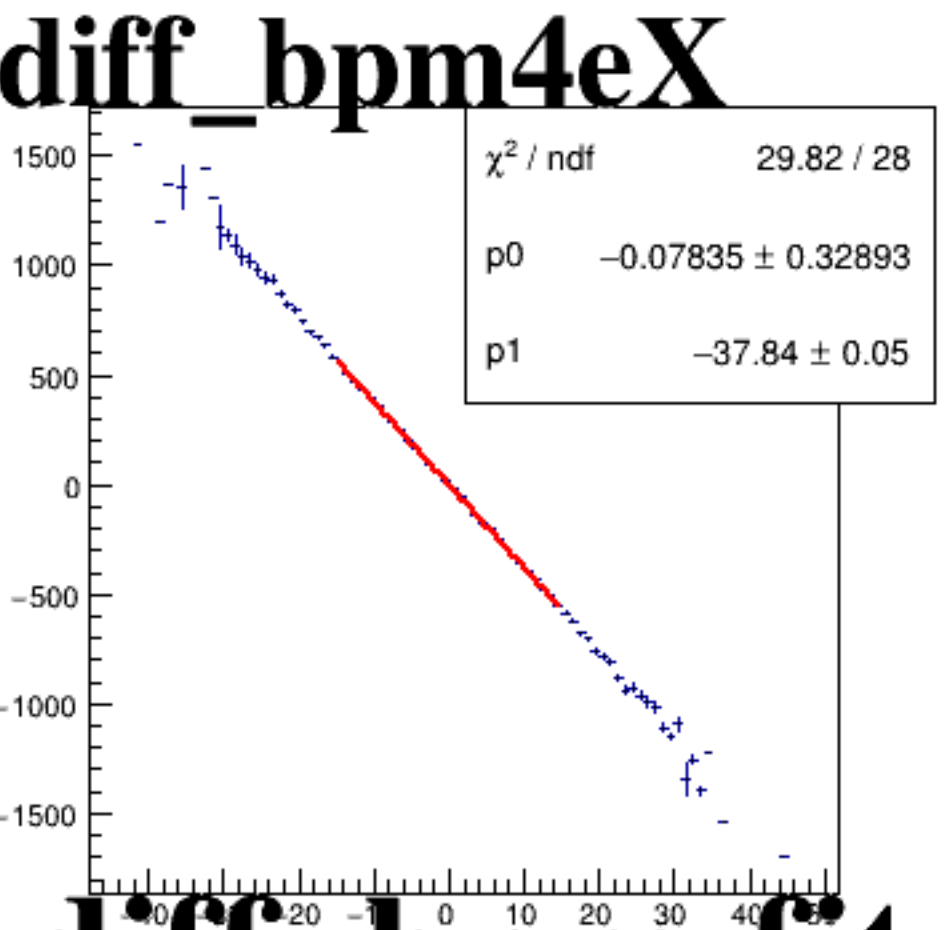
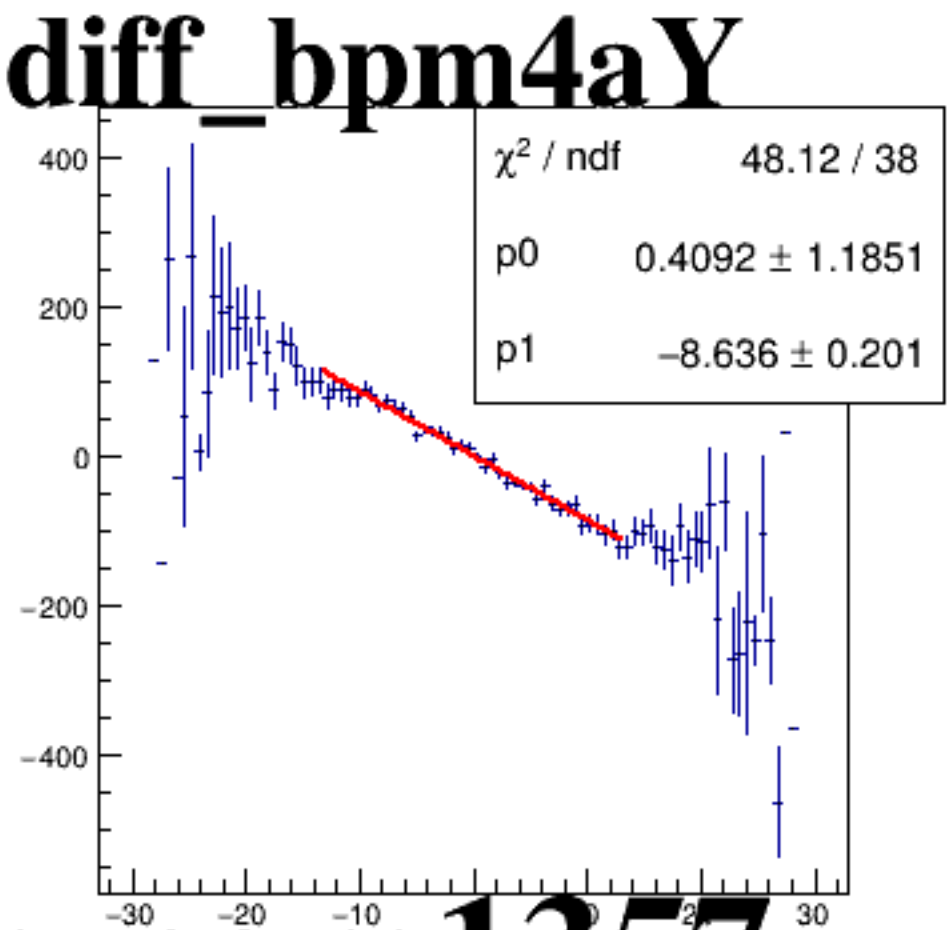
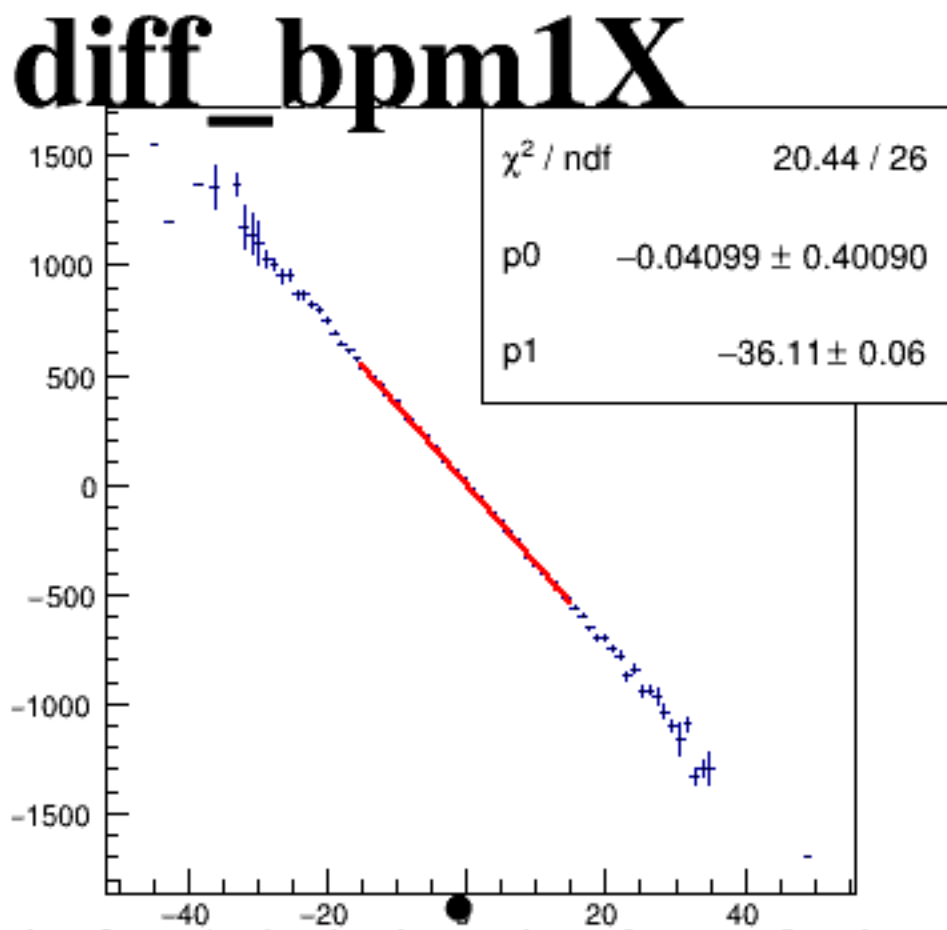
asym_sam3



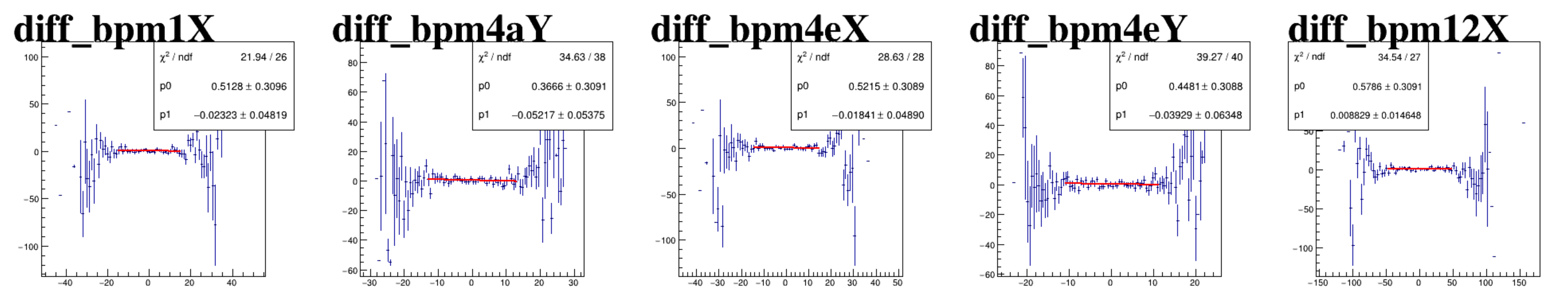
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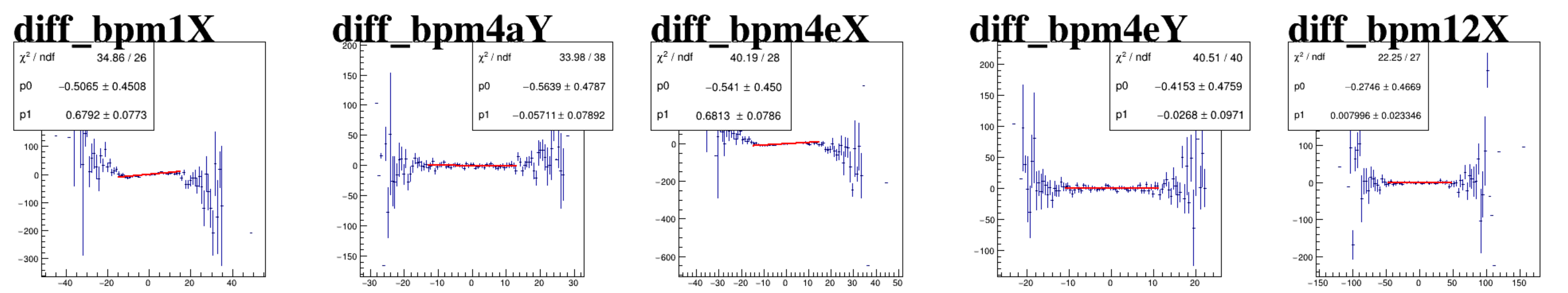
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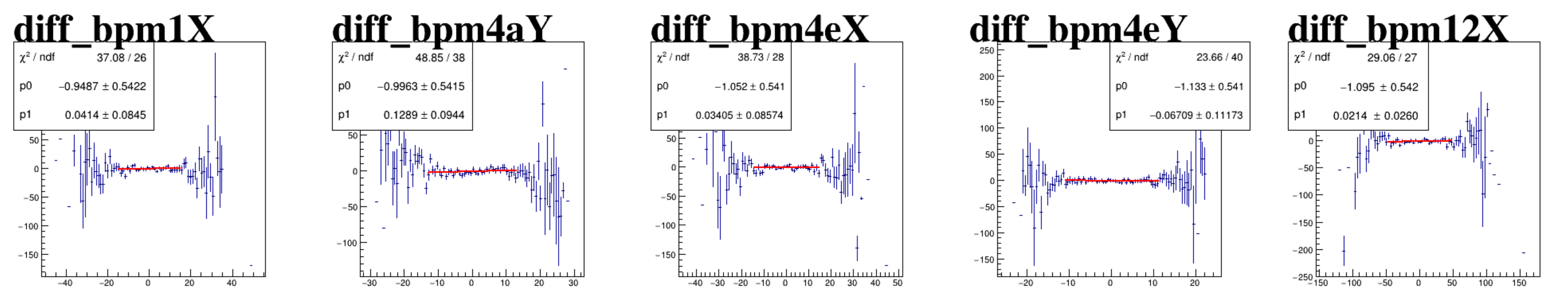
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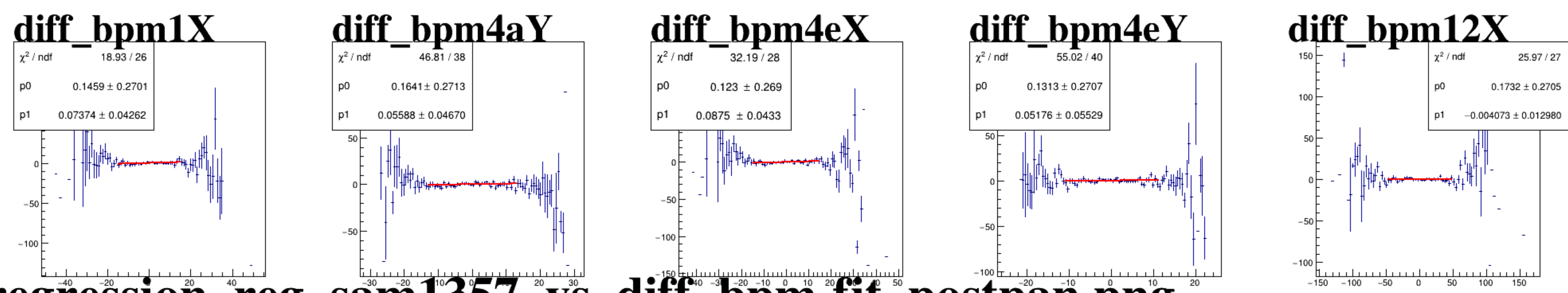
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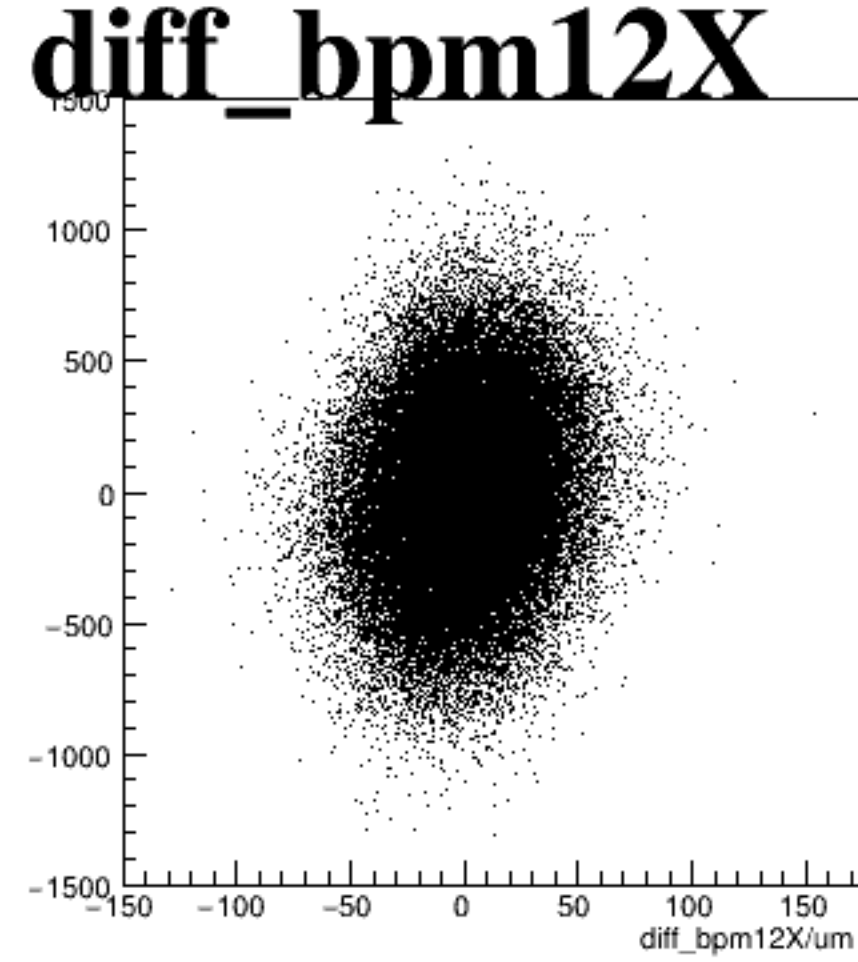
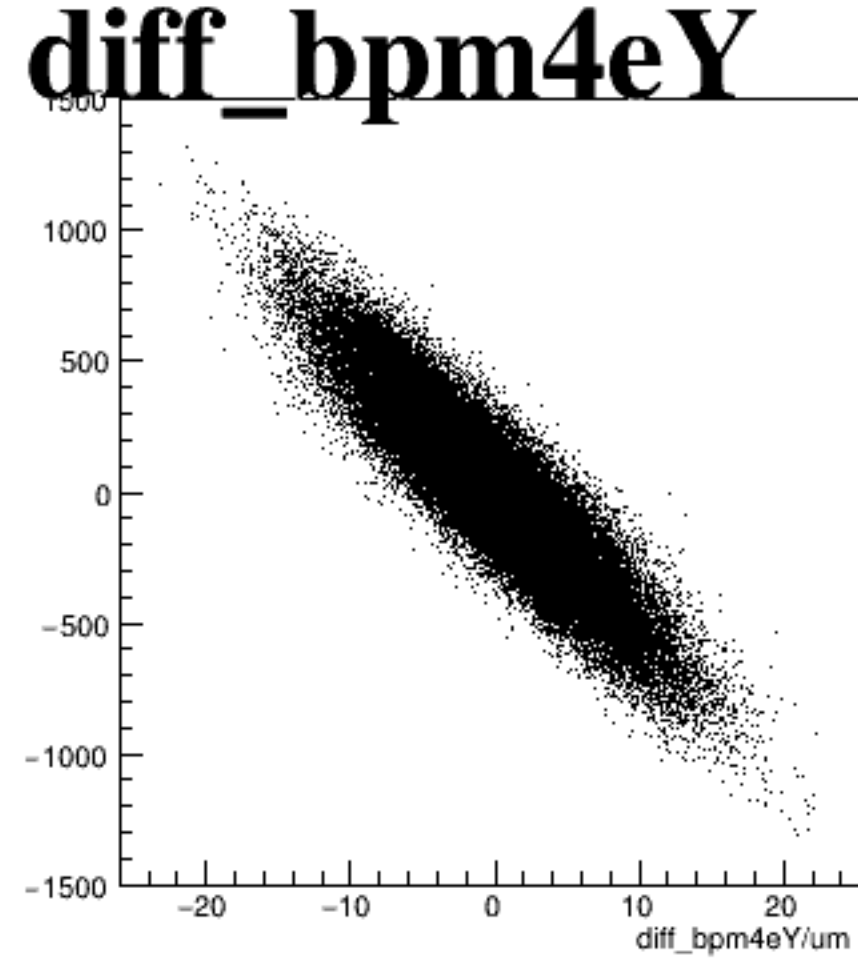
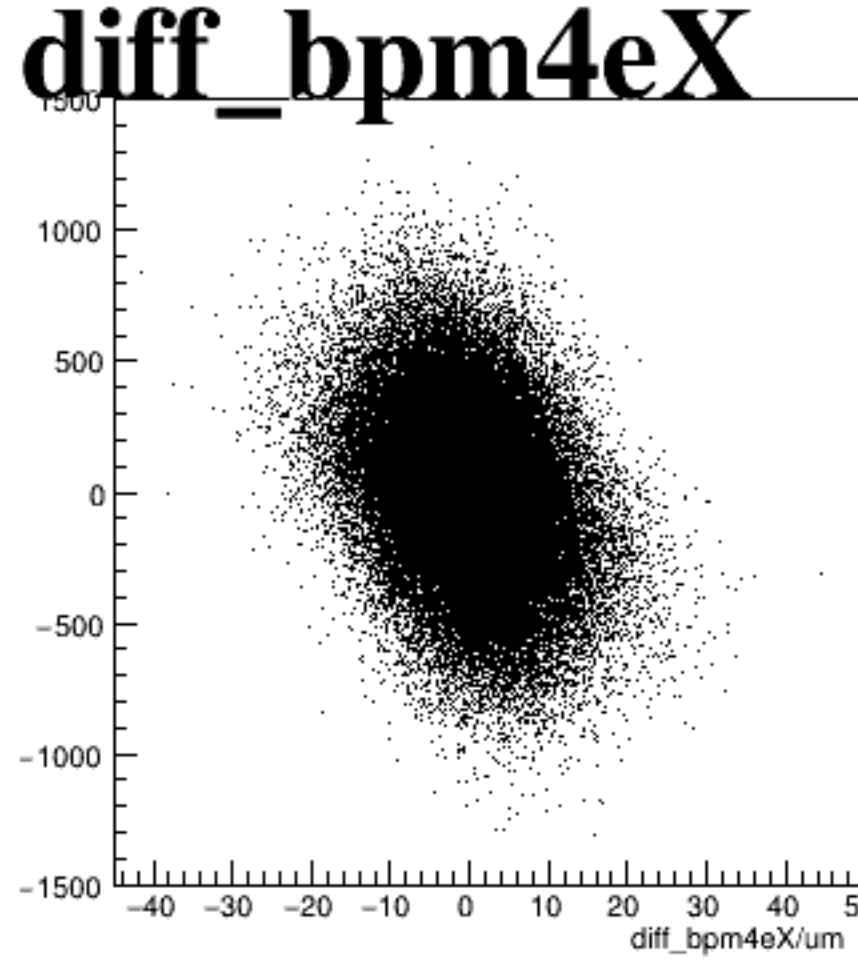
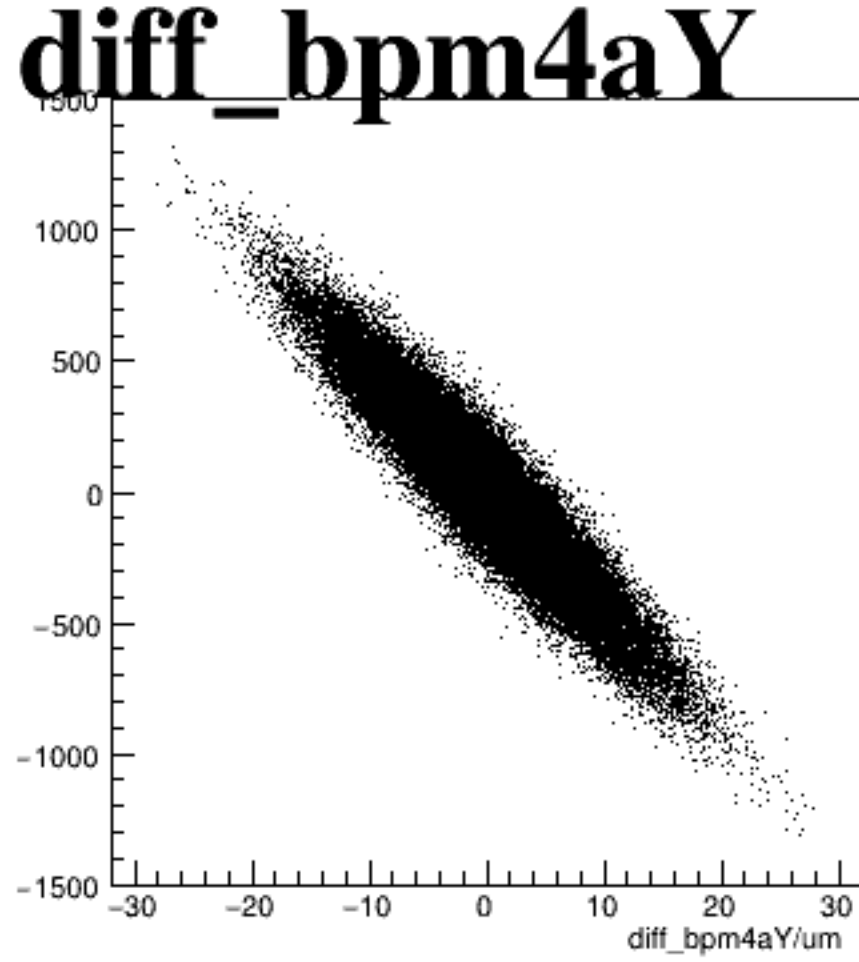
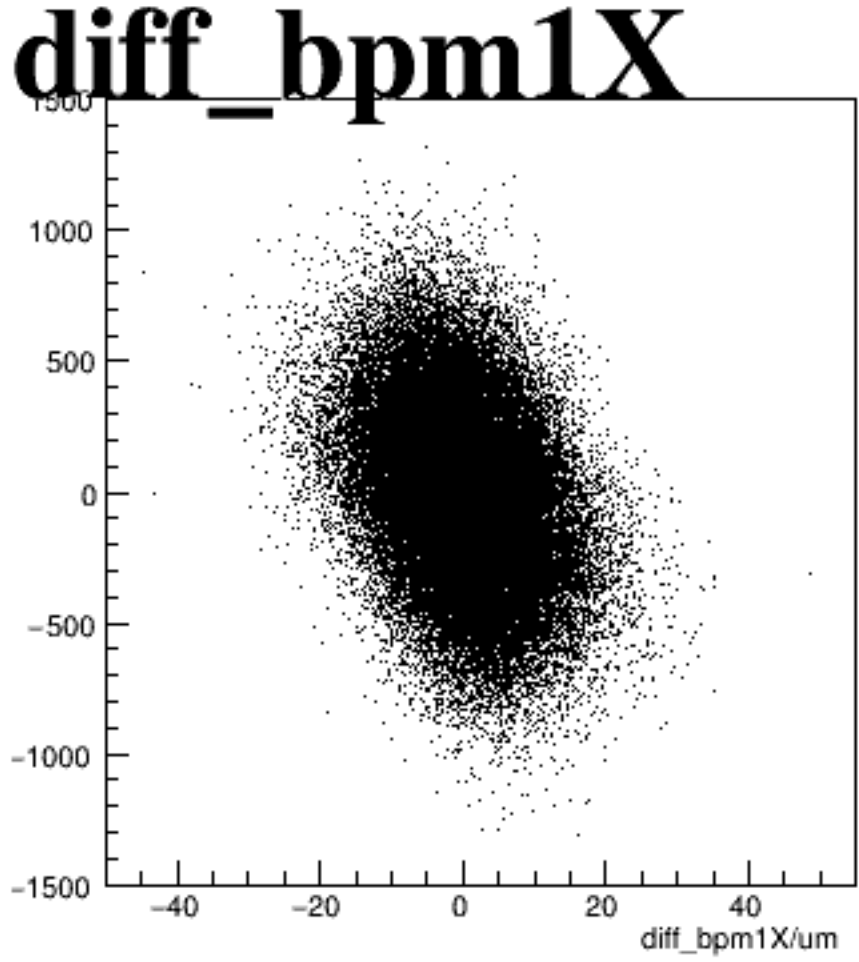
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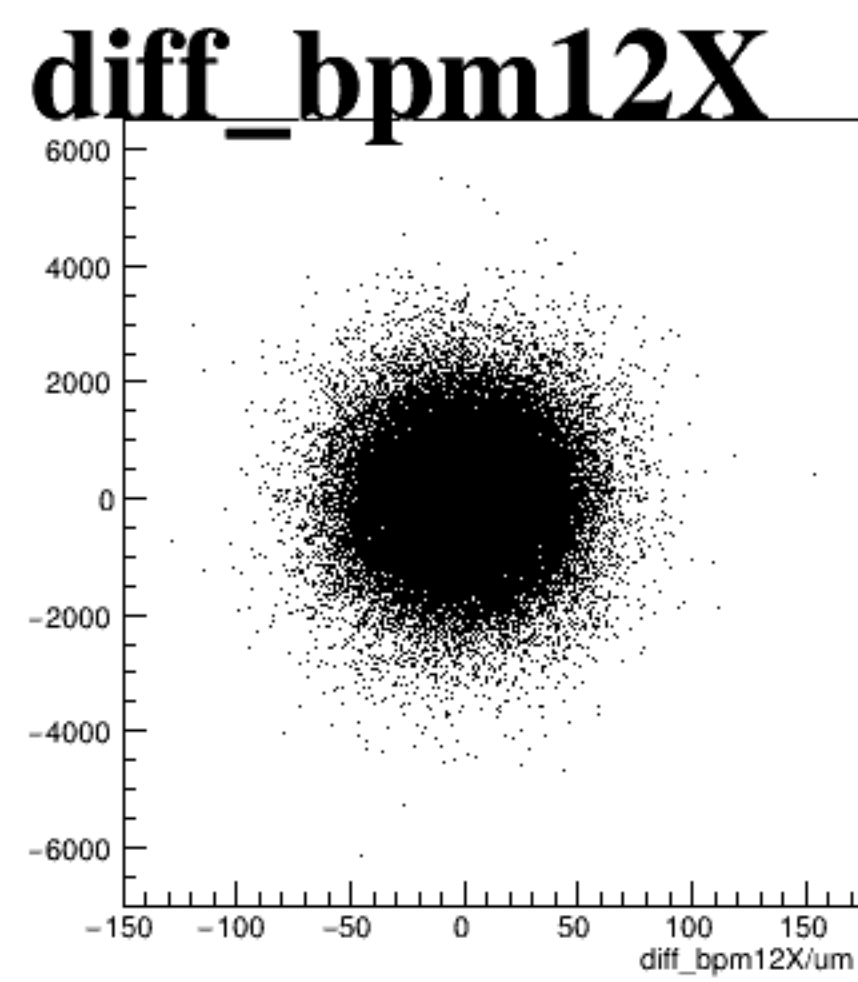
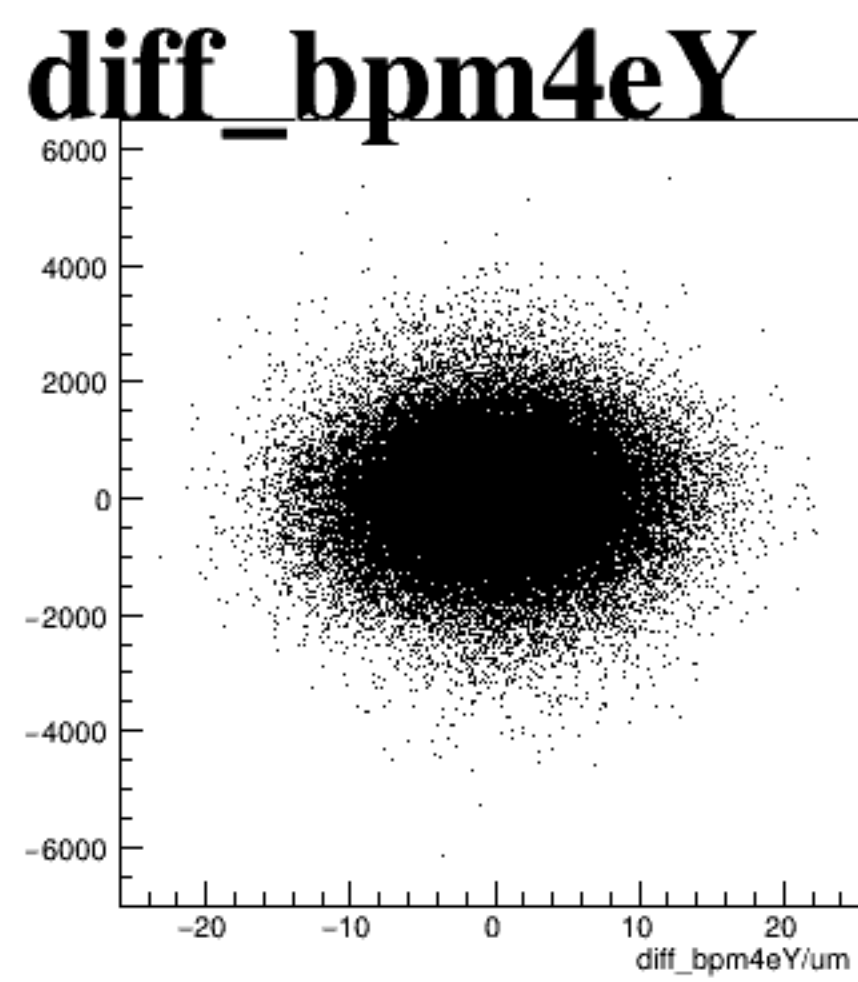
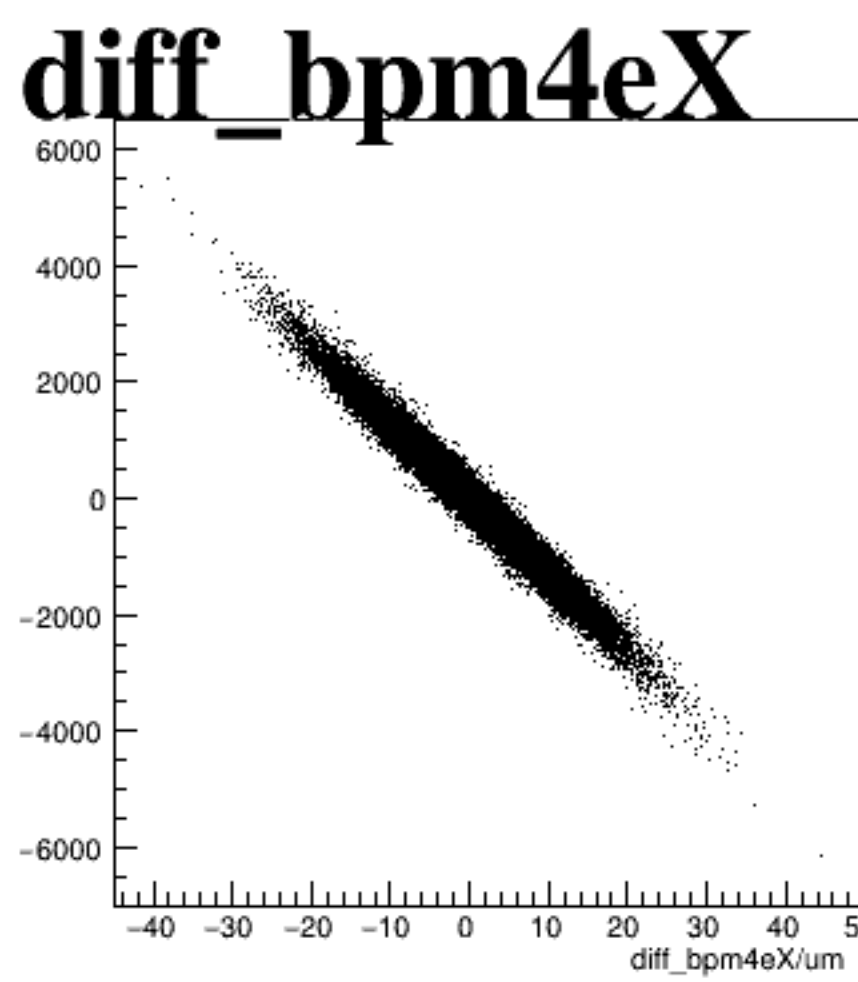
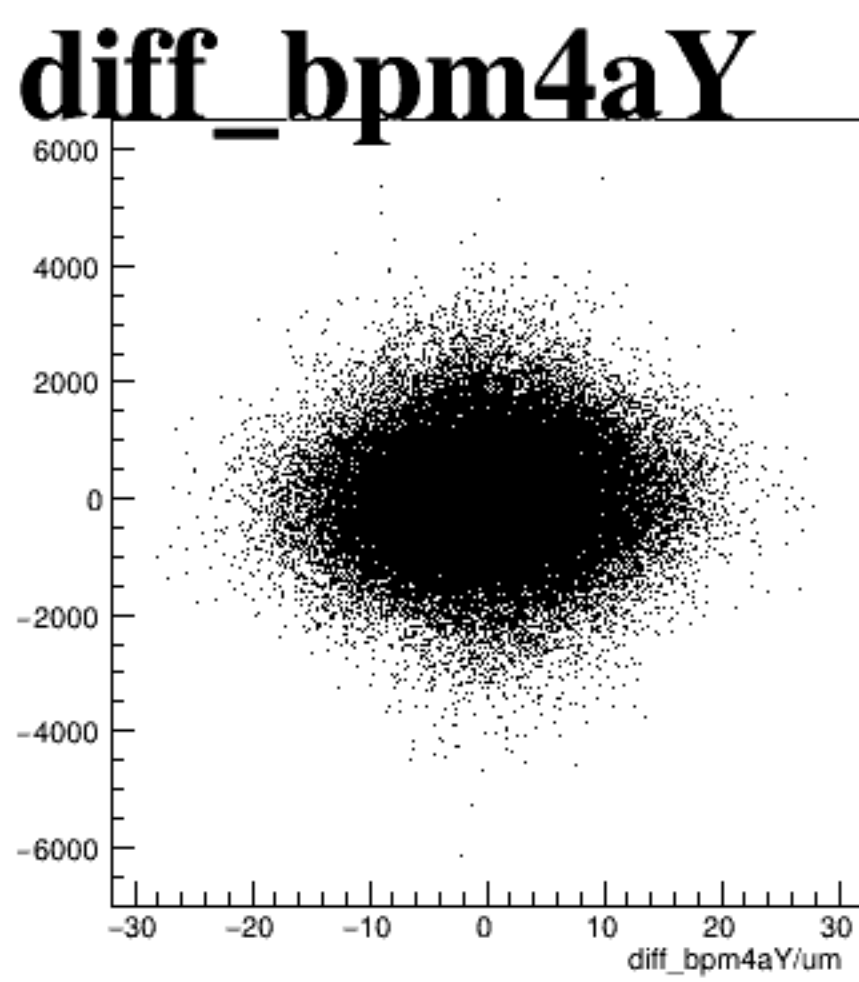
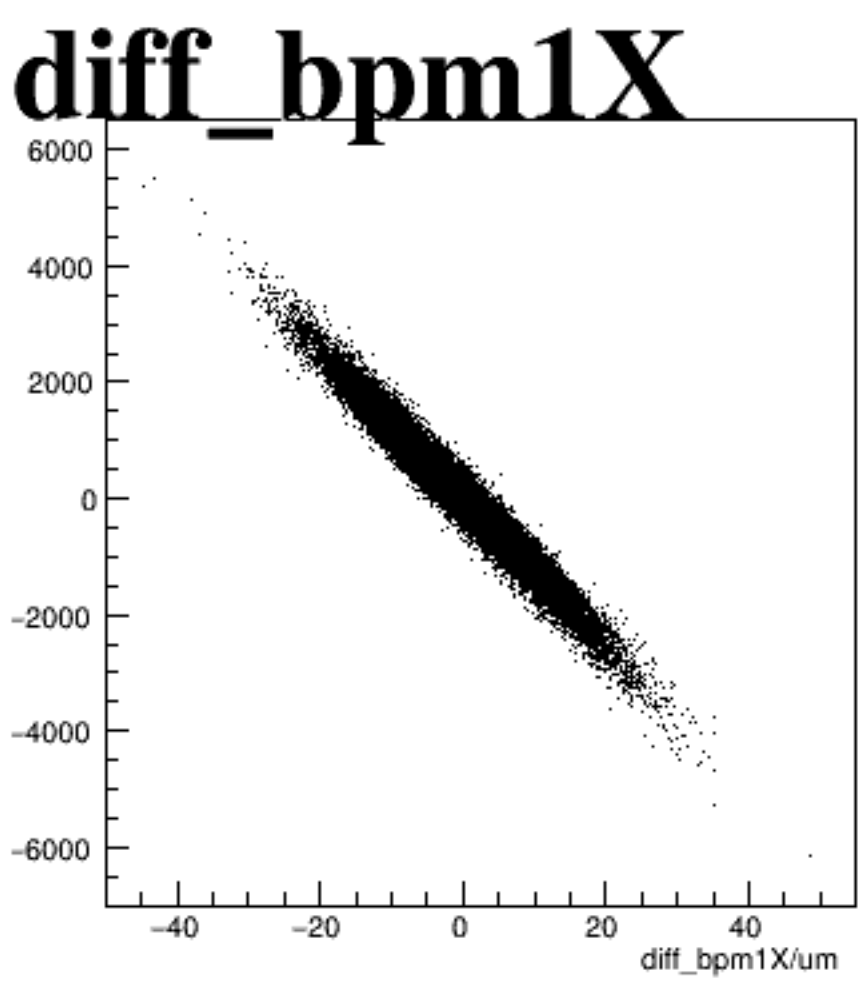
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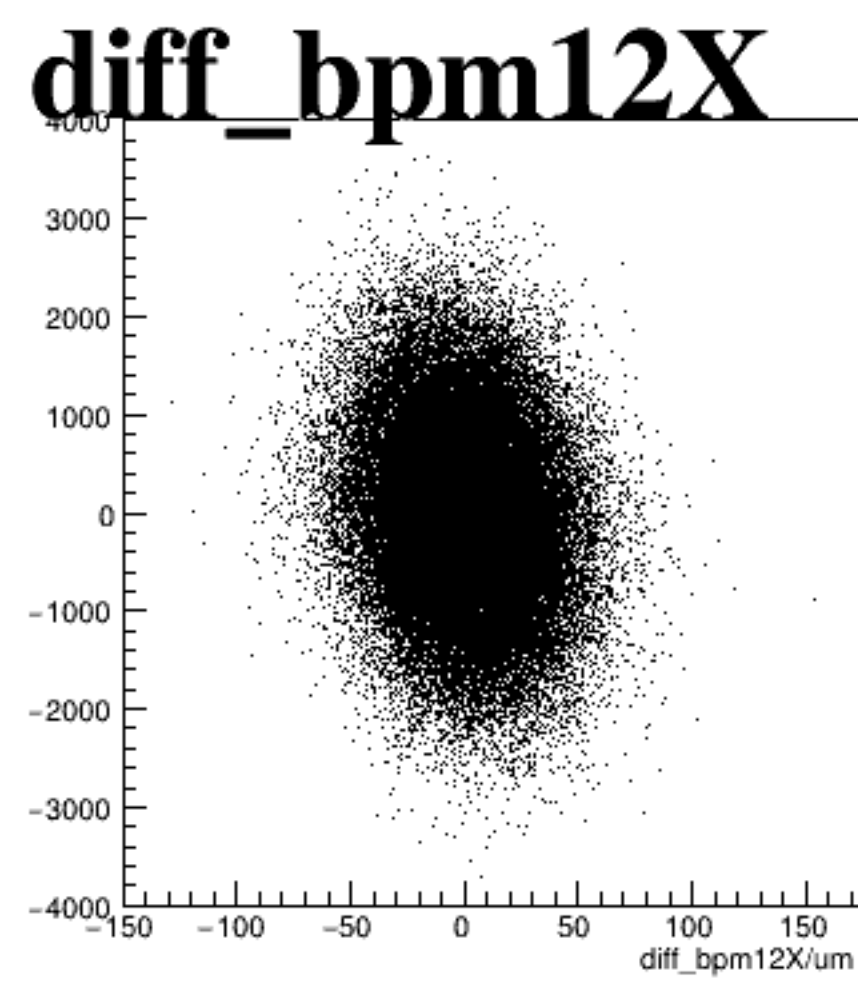
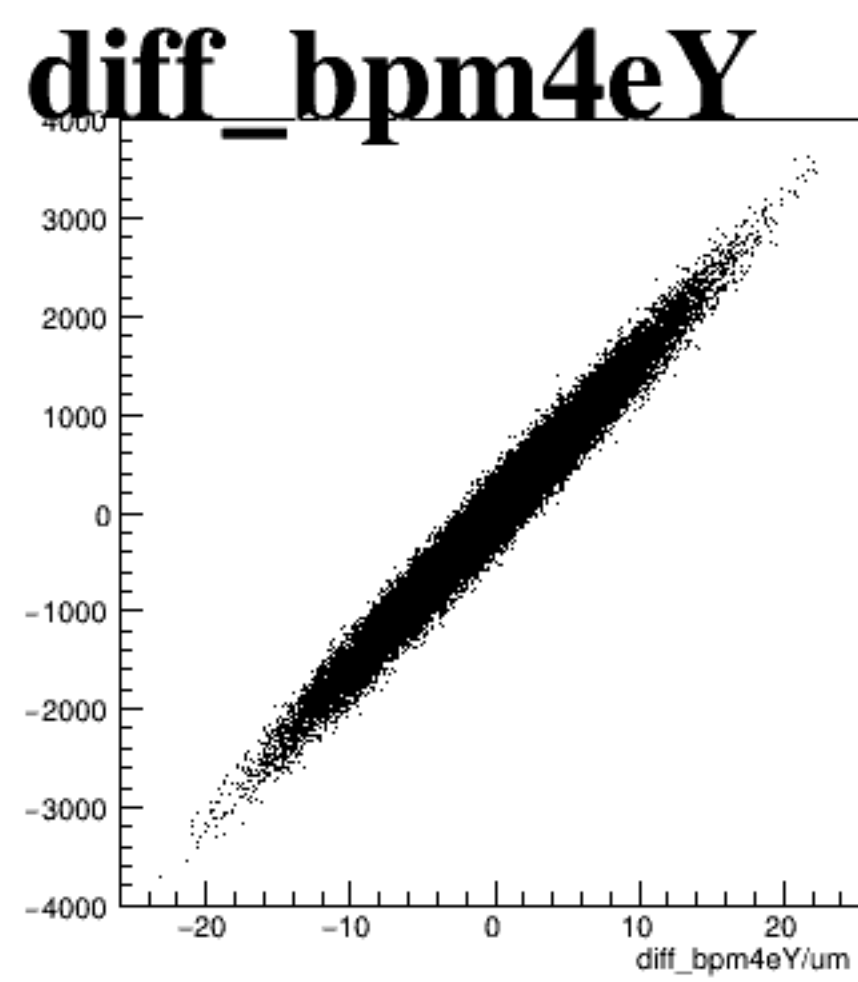
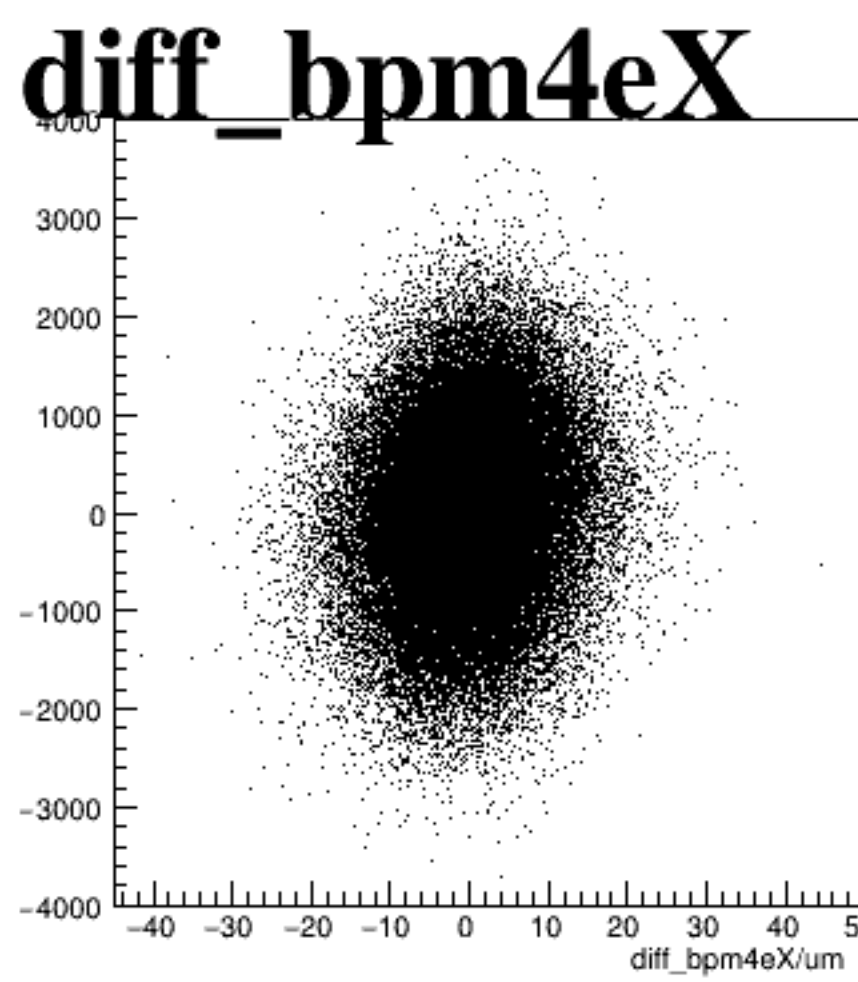
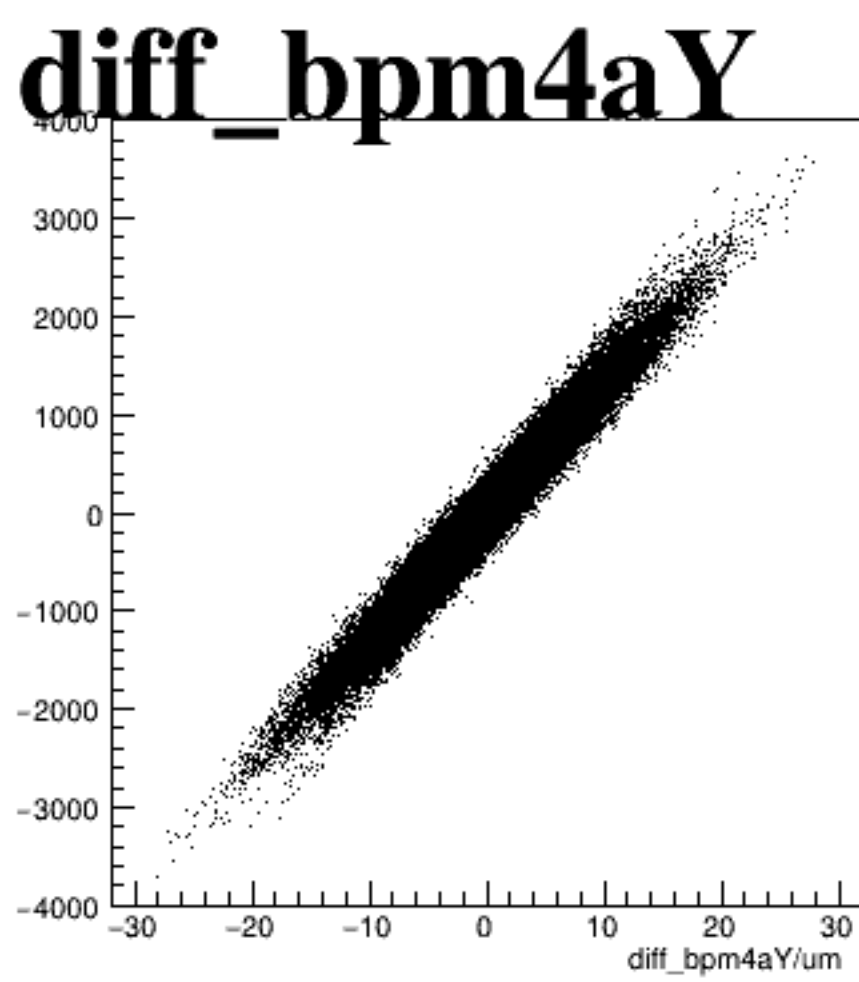
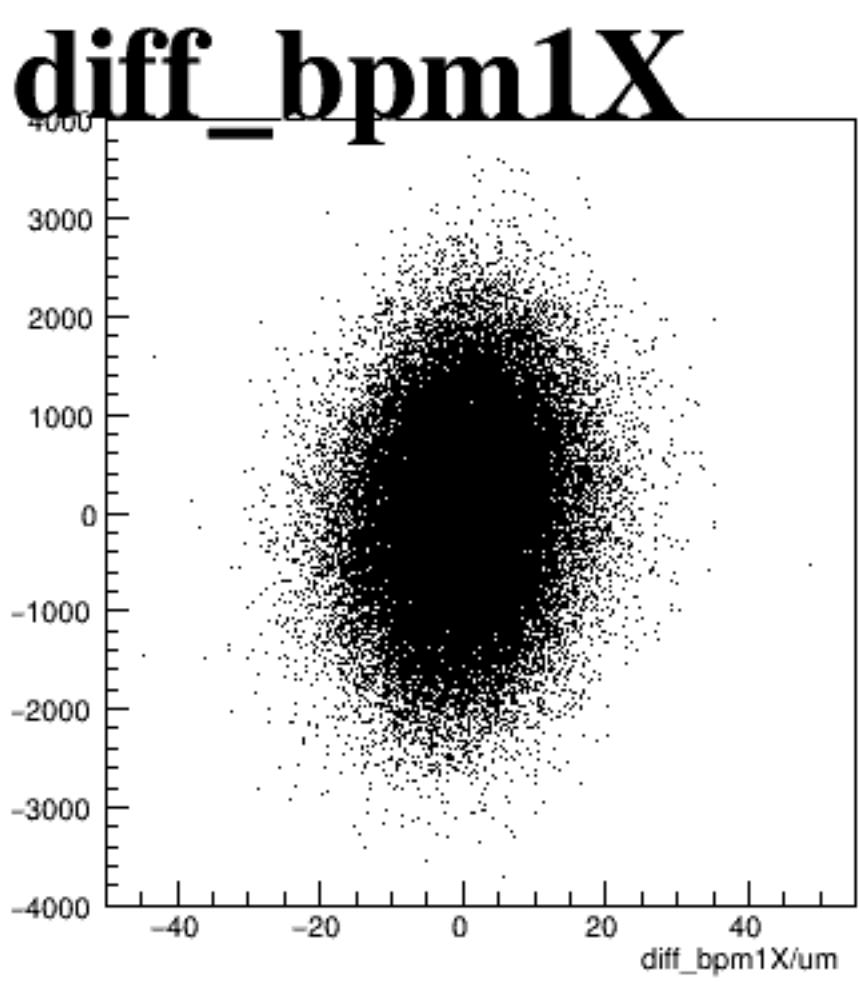
asym_sam1



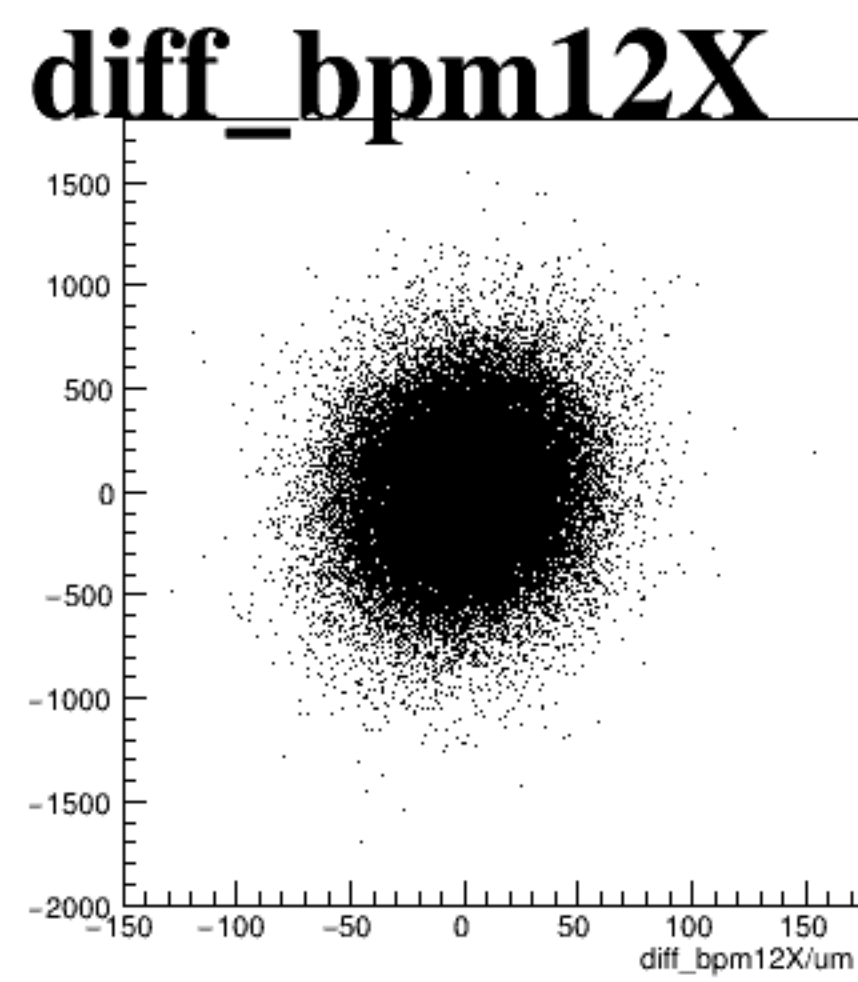
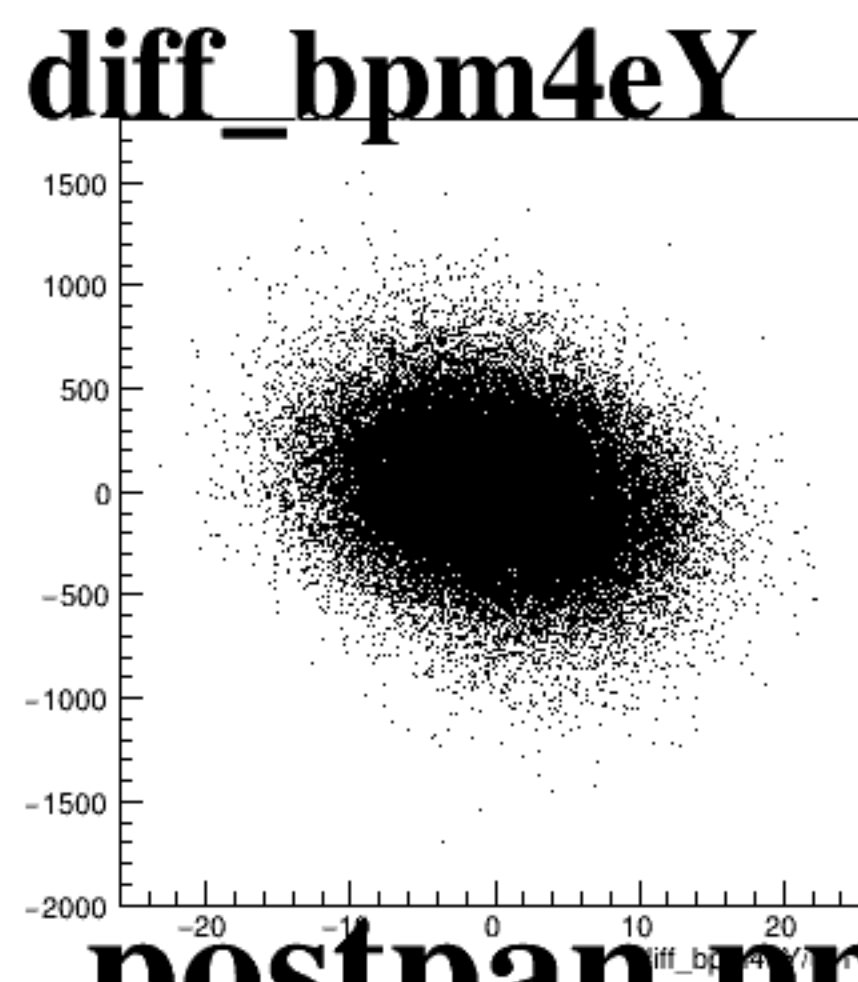
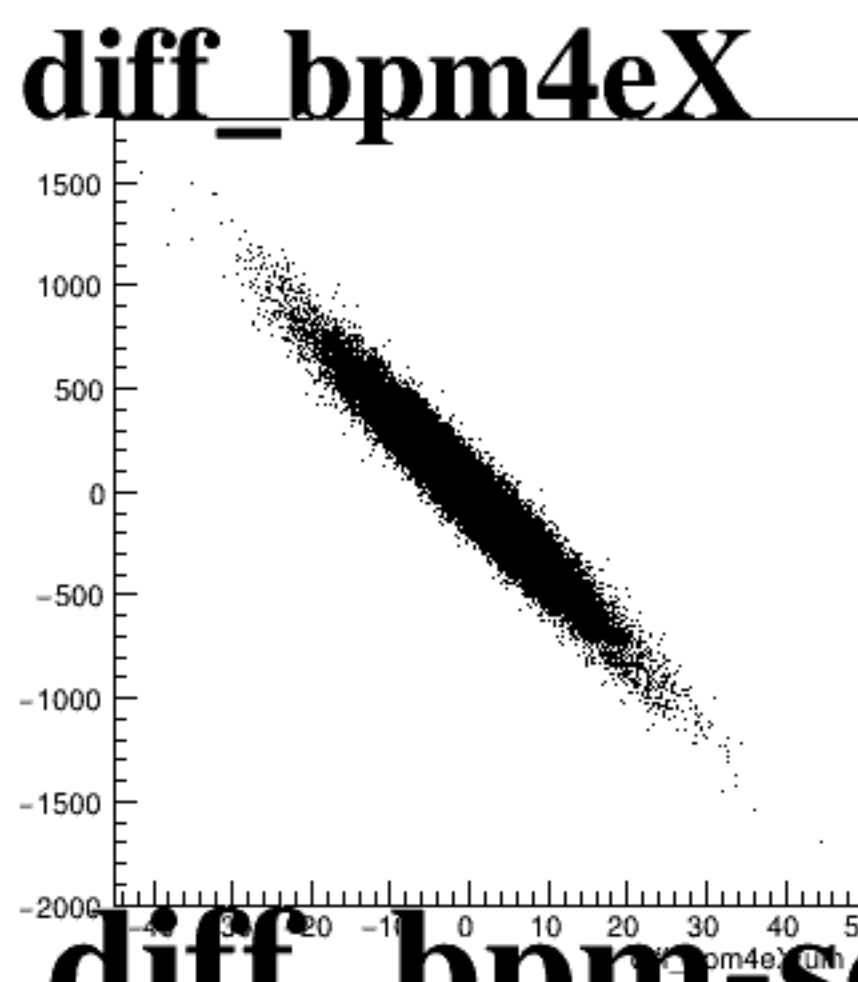
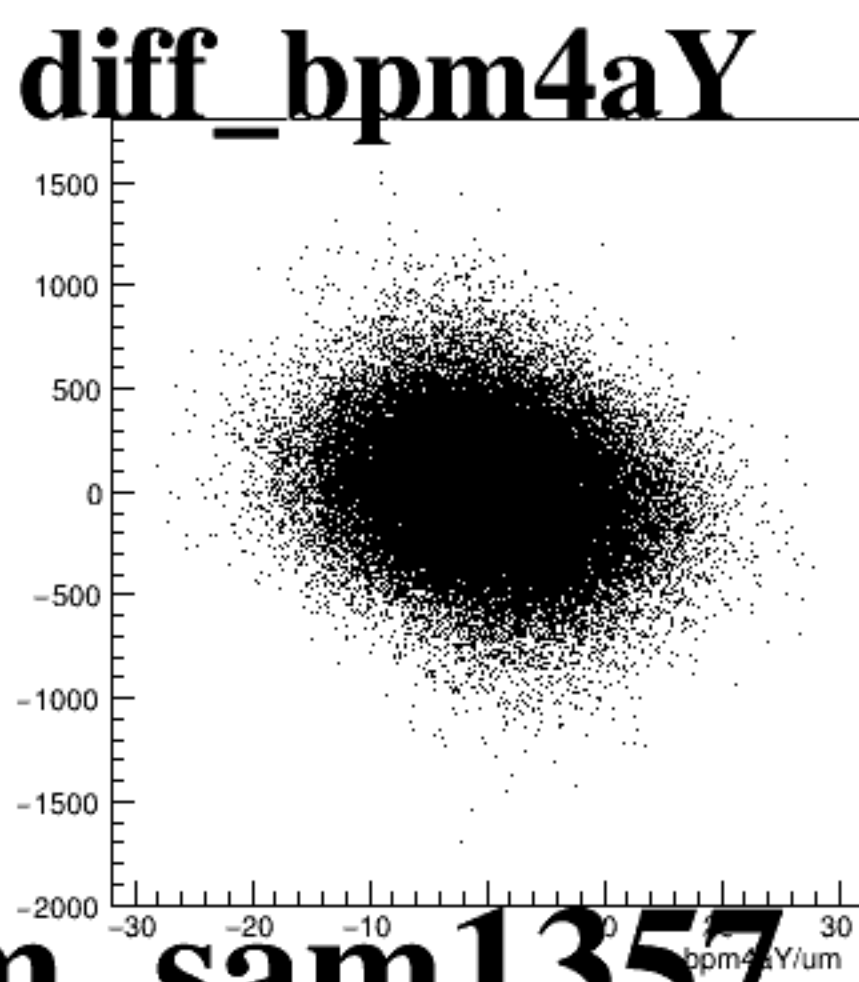
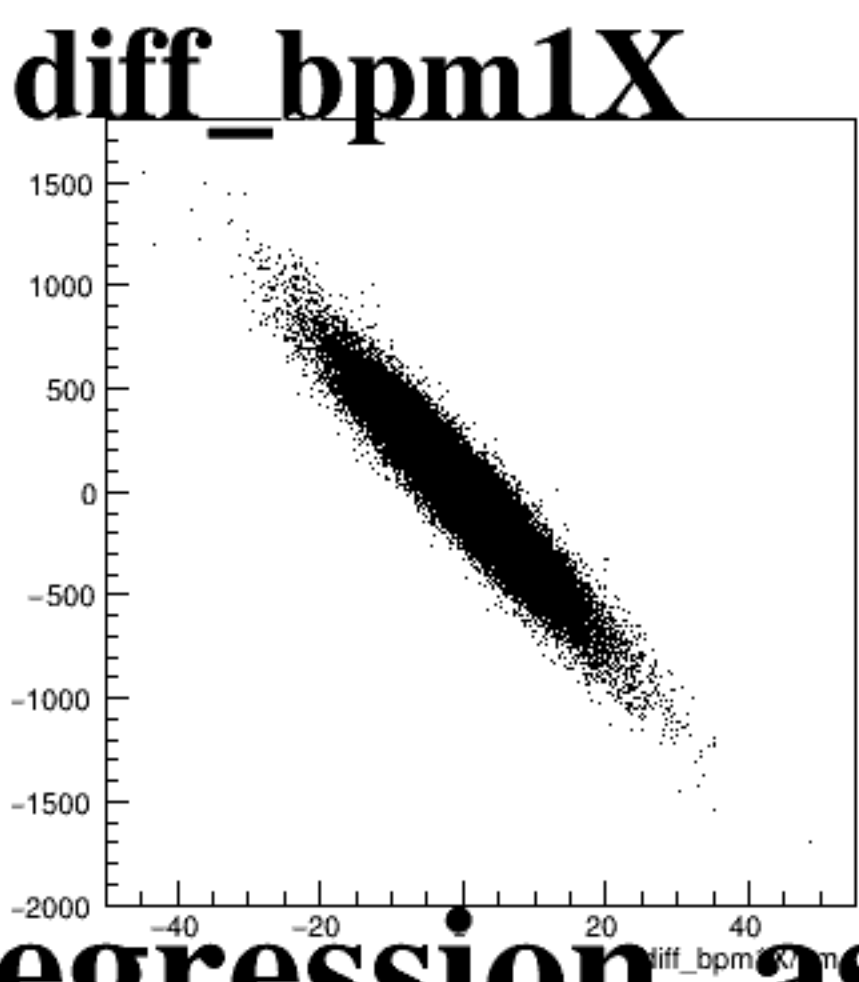
asym_sam3



asym_sam5



asym_sam7



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

- diff_bpm1X**: Difference between BPM1X and the regression model. The x-axis ranges from -40 to 40, and the y-axis ranges from -300 to 300.
- diff_bpm4aY**: Difference between BPM4aY and the regression model. The x-axis ranges from -30 to 30, and the y-axis ranges from -300 to 300.
- diff_bpm4eX**: Difference between BPM4eX and the regression model. The x-axis ranges from -30 to 50, and the y-axis ranges from -300 to 300.
- diff_bpm4eY**: Difference between BPM4eY and the regression model. The x-axis ranges from -10 to 20, and the y-axis ranges from -300 to 300.
- diff_bpm12X**: Difference between BPM12X and the regression model. The x-axis ranges from -150 to 150, and the y-axis ranges from -300 to 300.

All plots show a dense, roughly circular distribution of points centered around the origin (0,0), indicating that the regression models provide a good fit to the BPM data across the measured range.