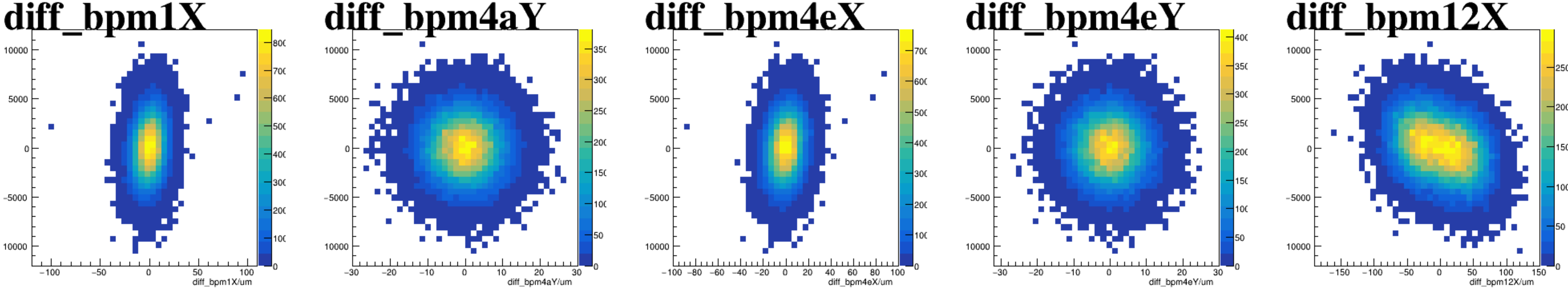
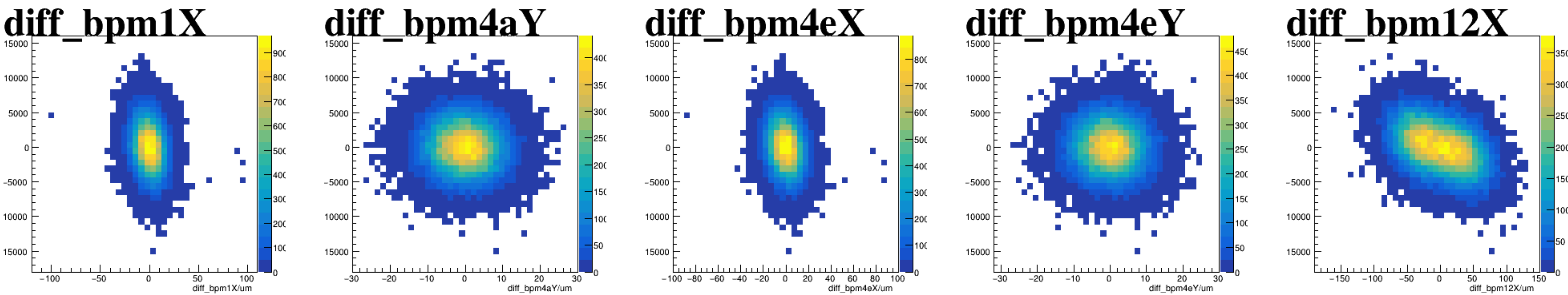


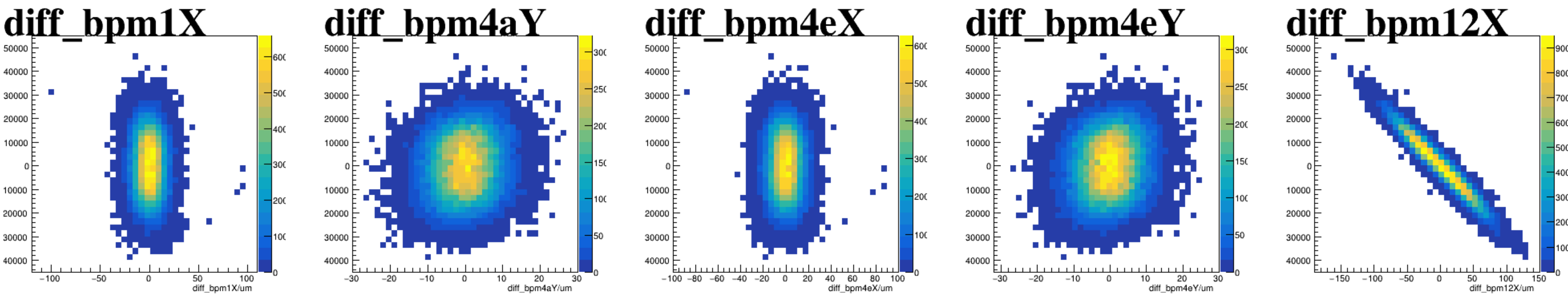
asym\_atl1



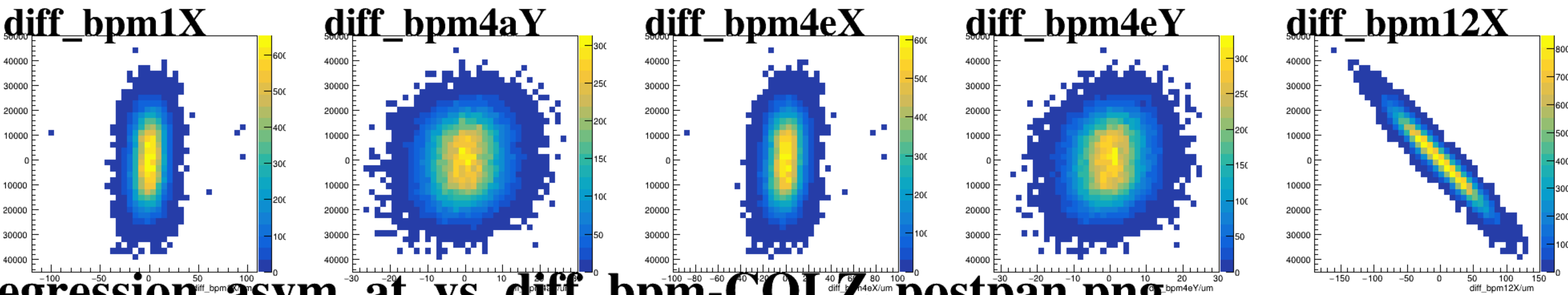
asym\_atr1



asym\_atl2

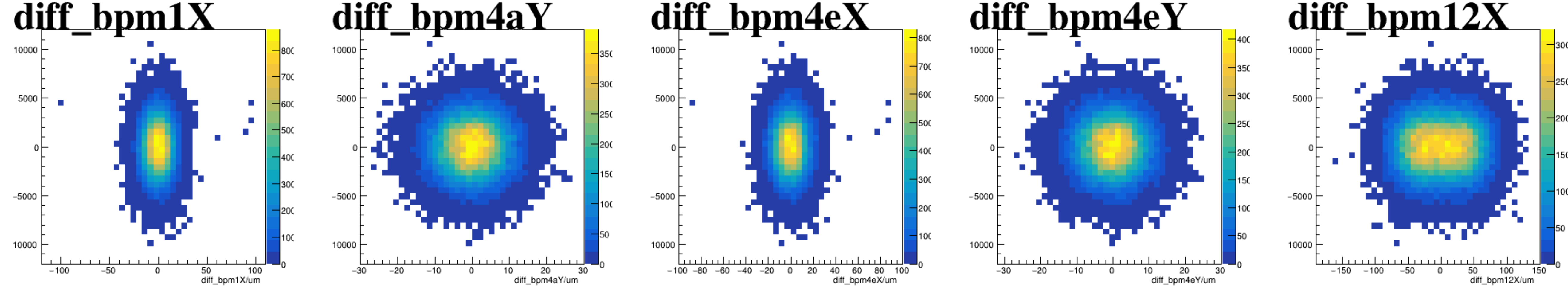


asym\_atr2

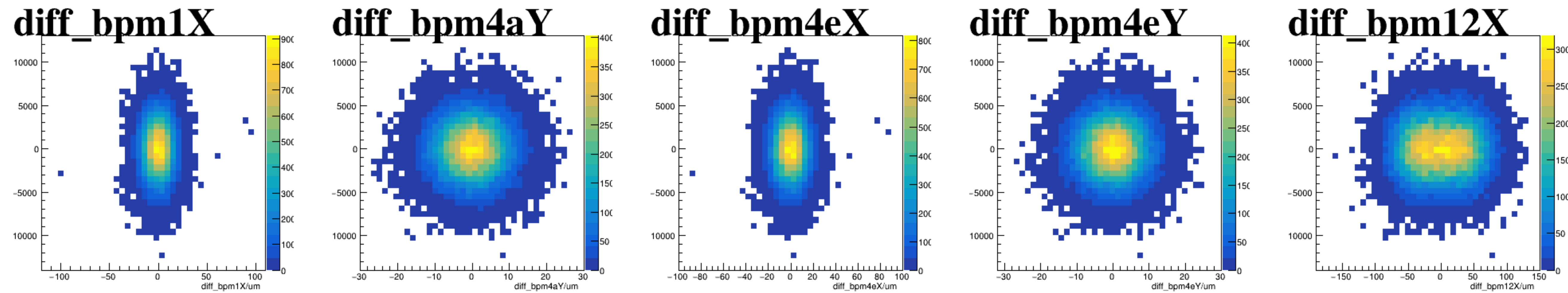




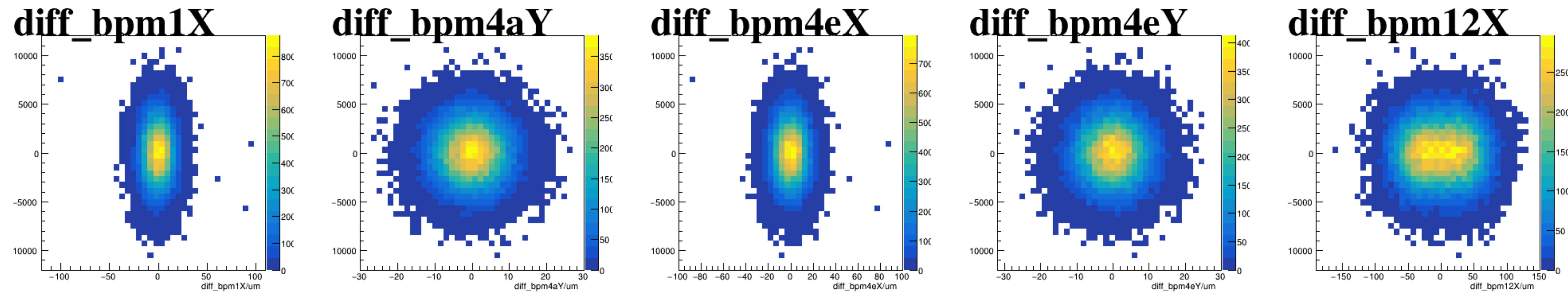
reg\_asym\_atl1



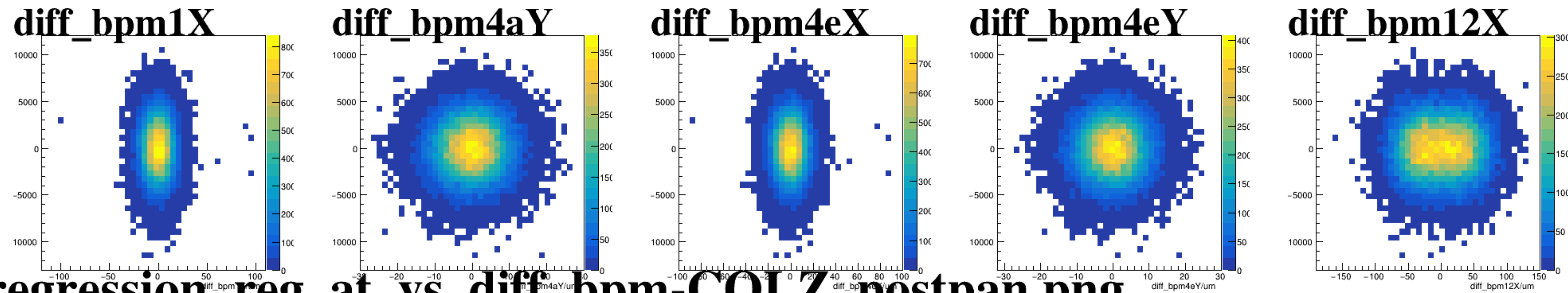
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reg\_asym\_atl2

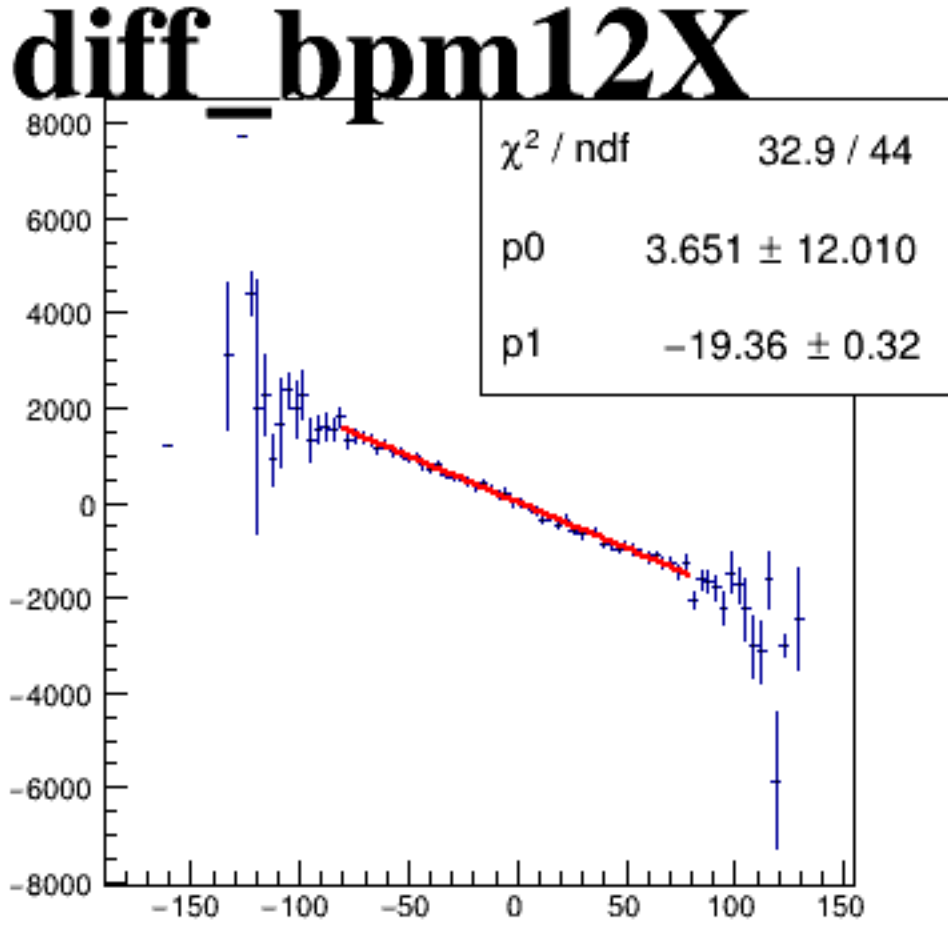
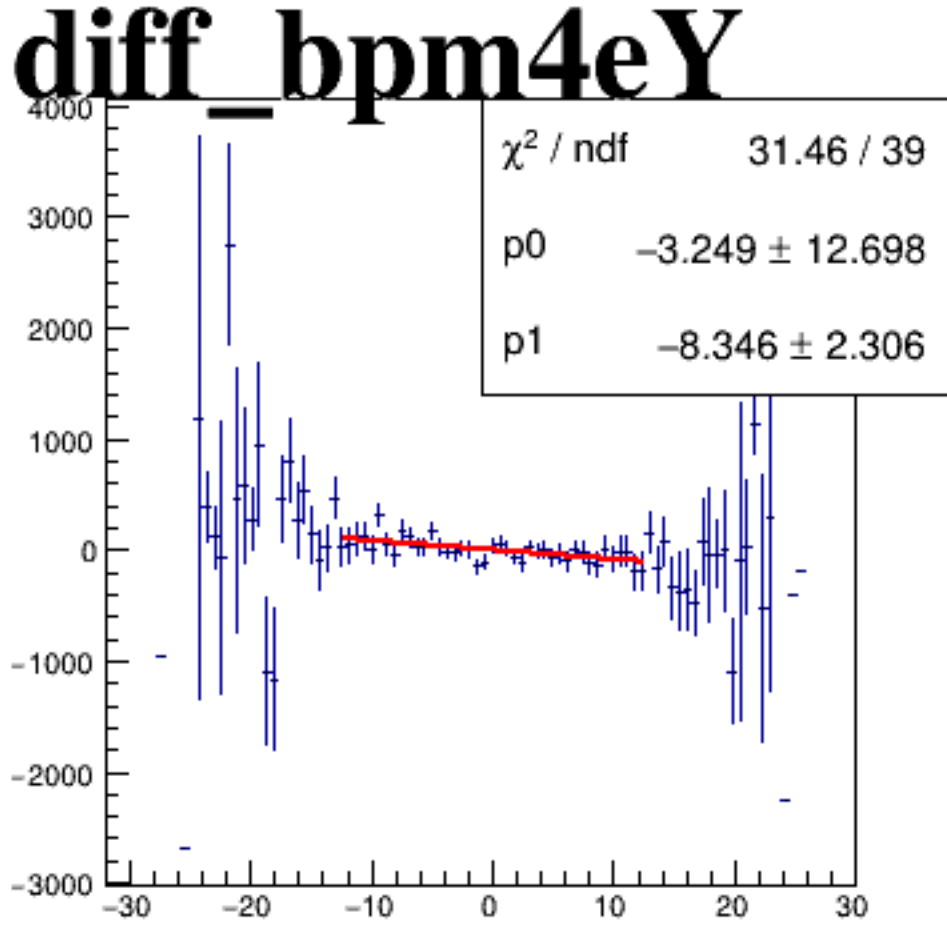
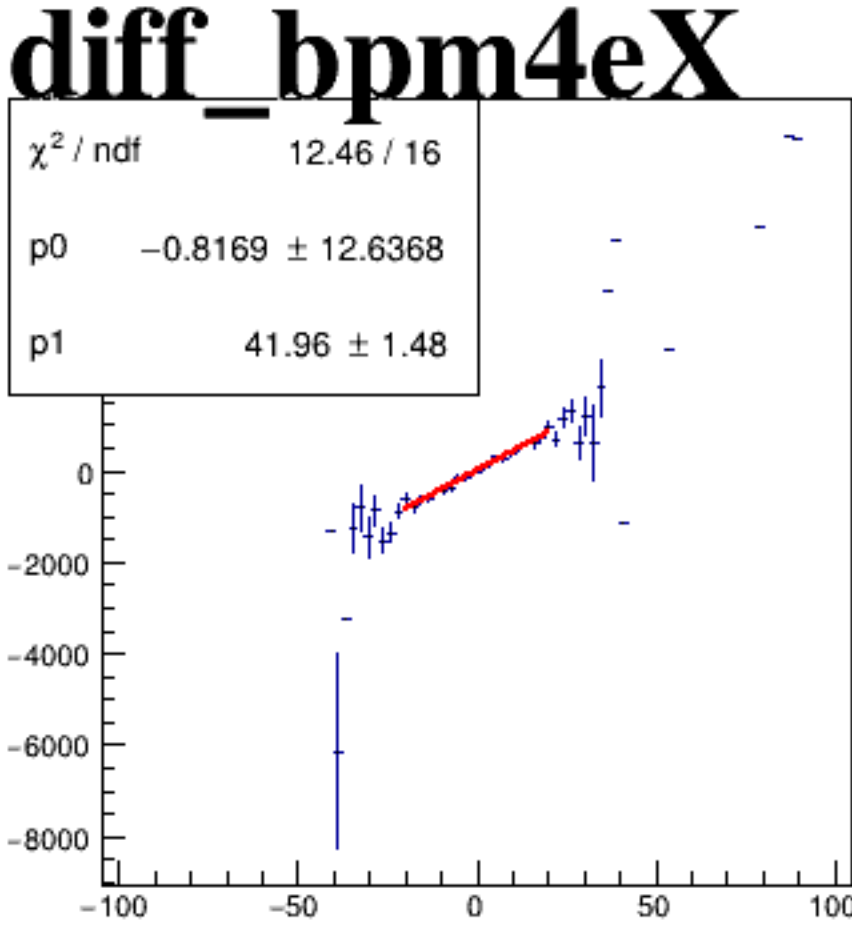
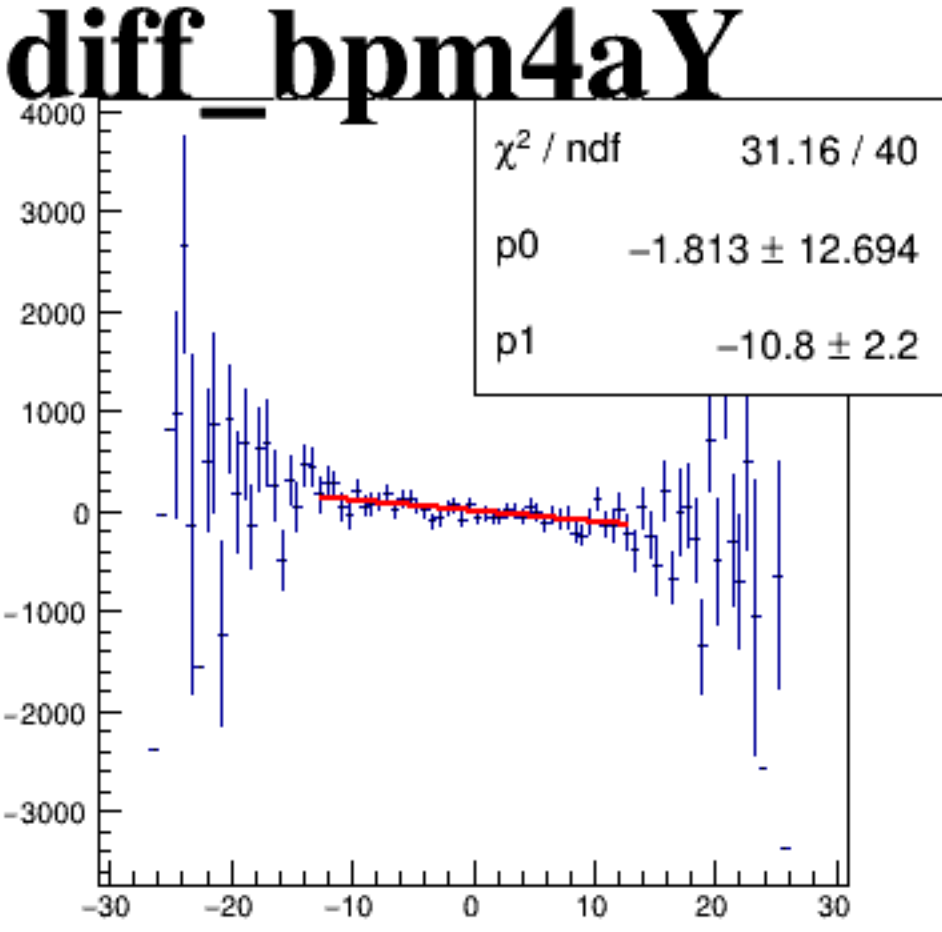
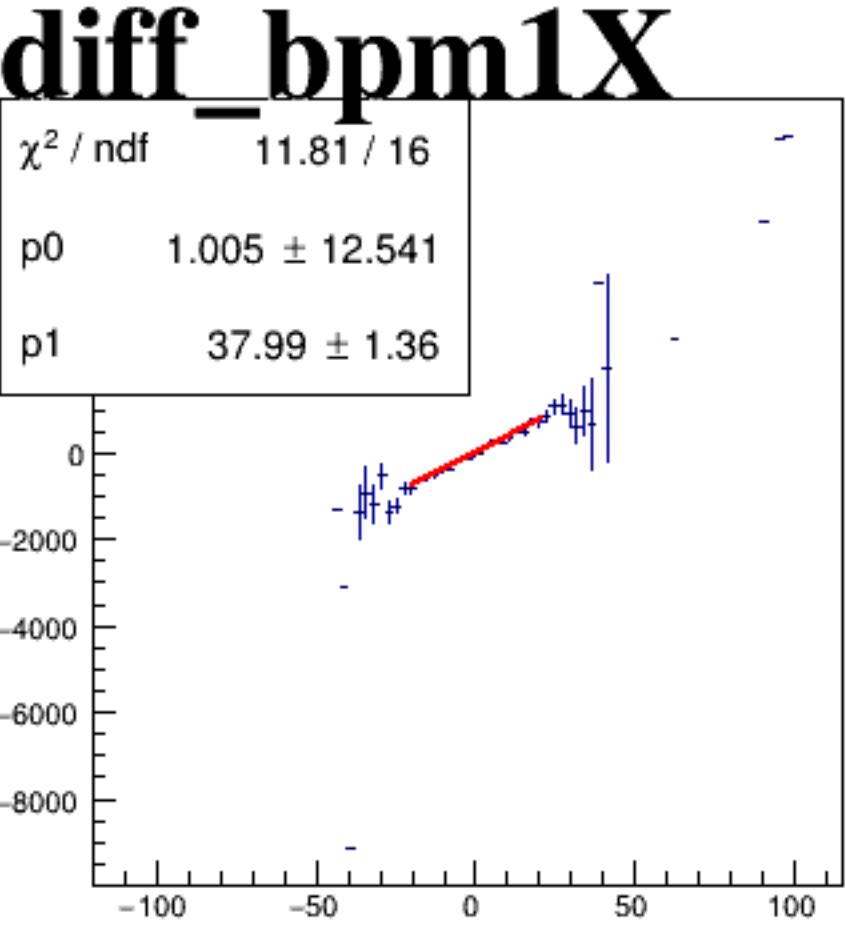


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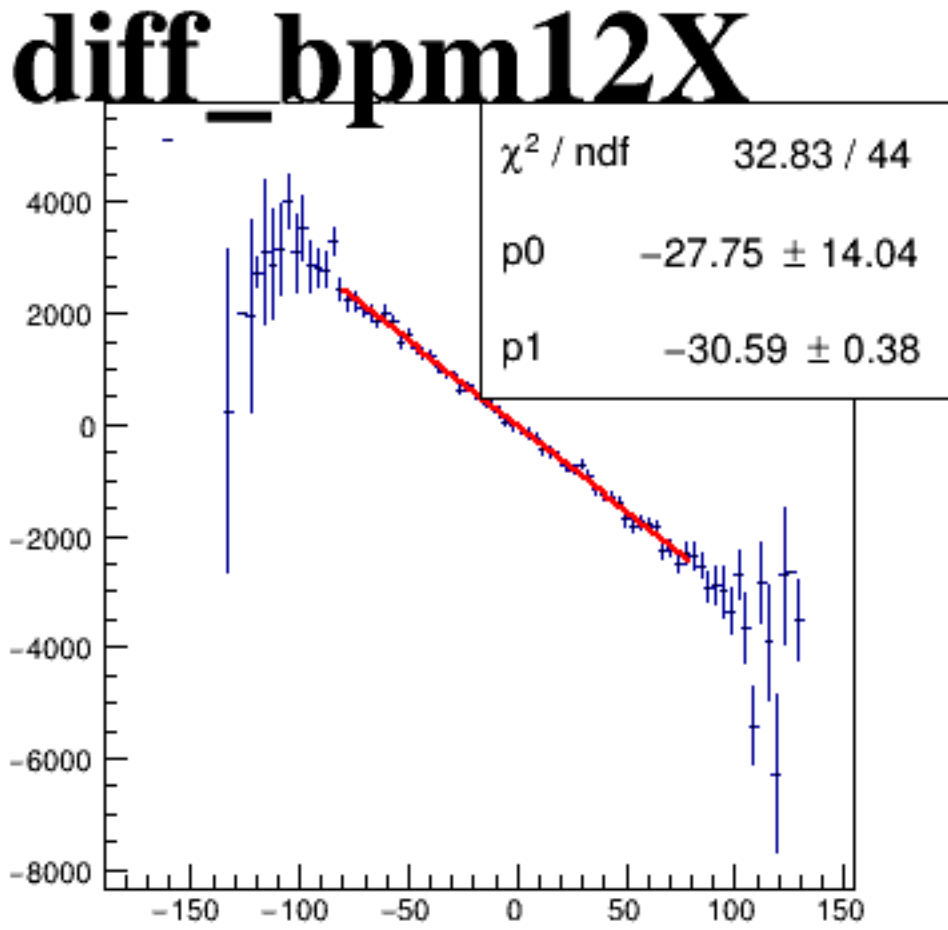
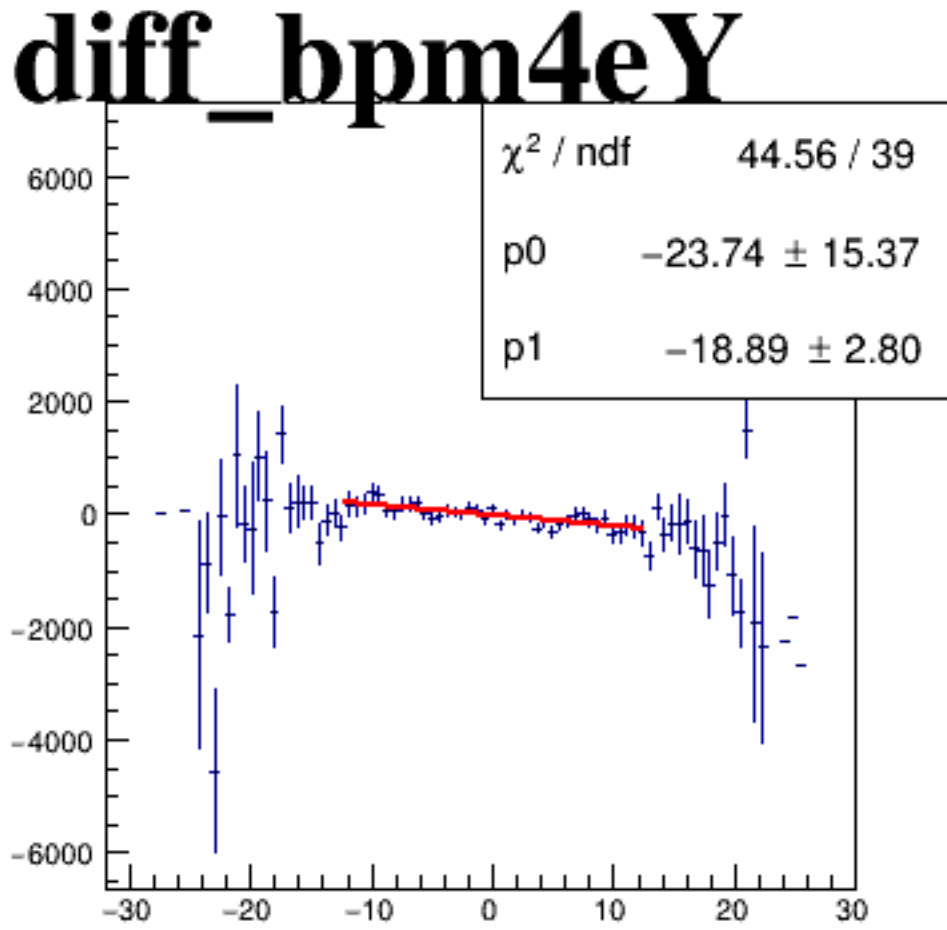
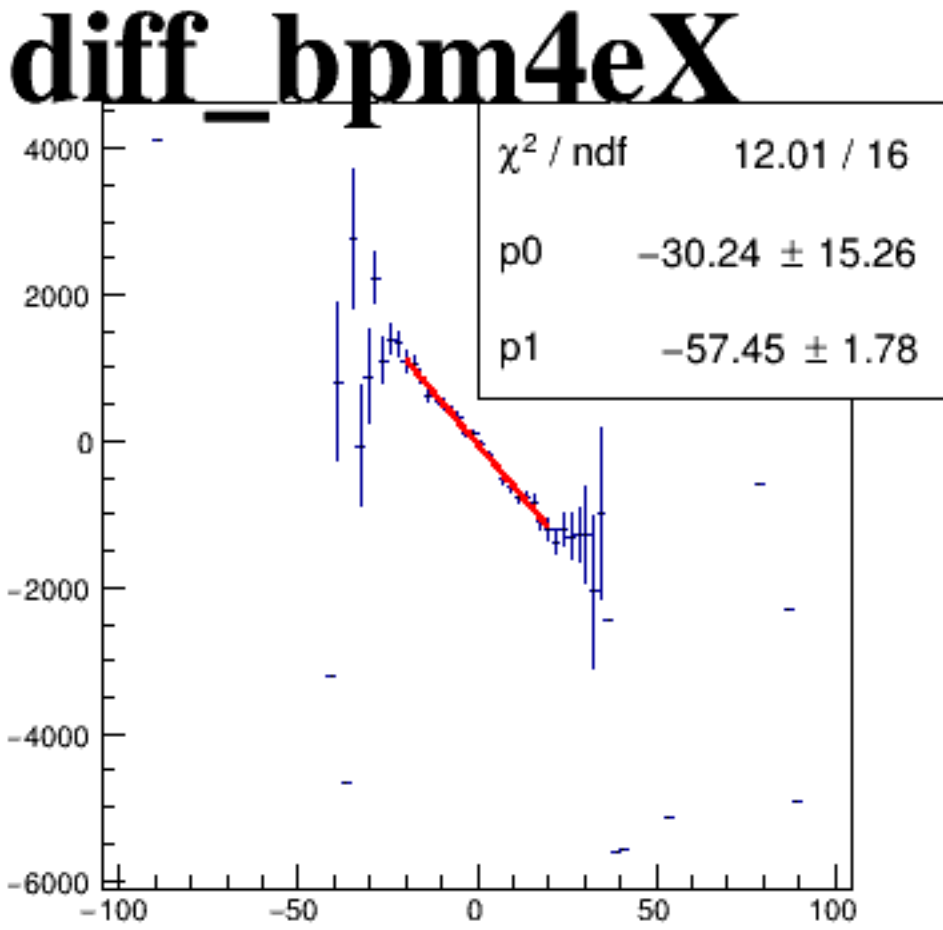
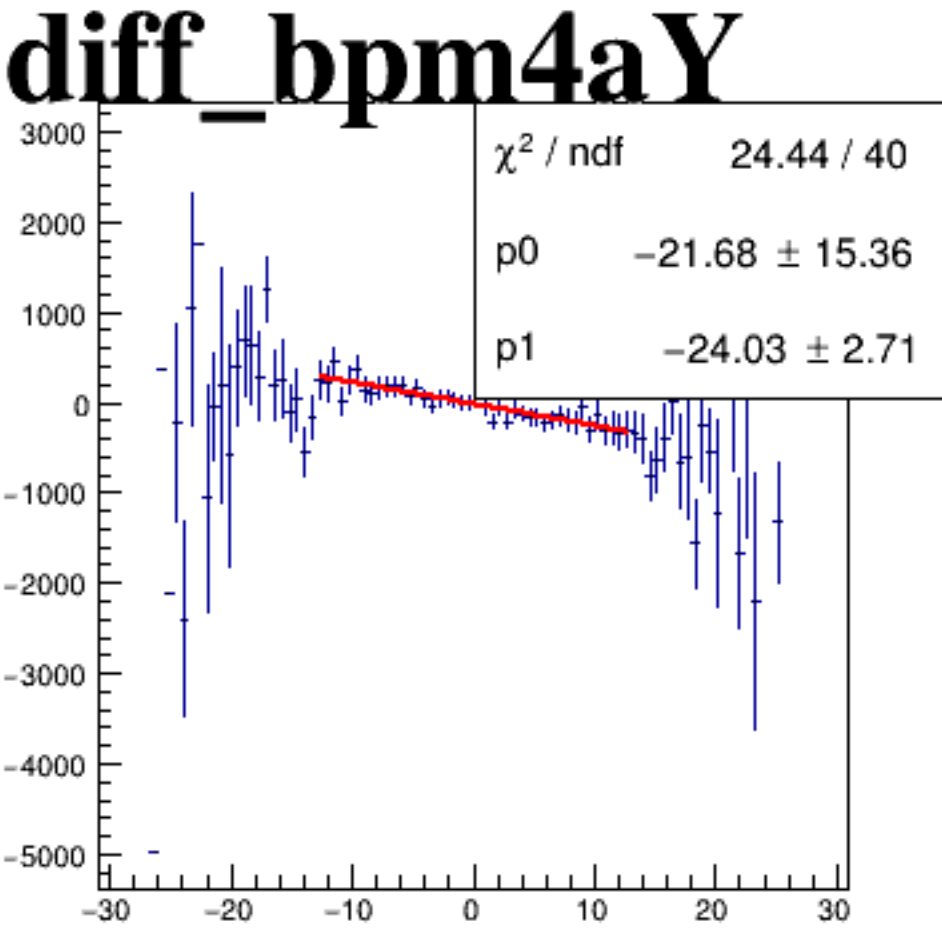
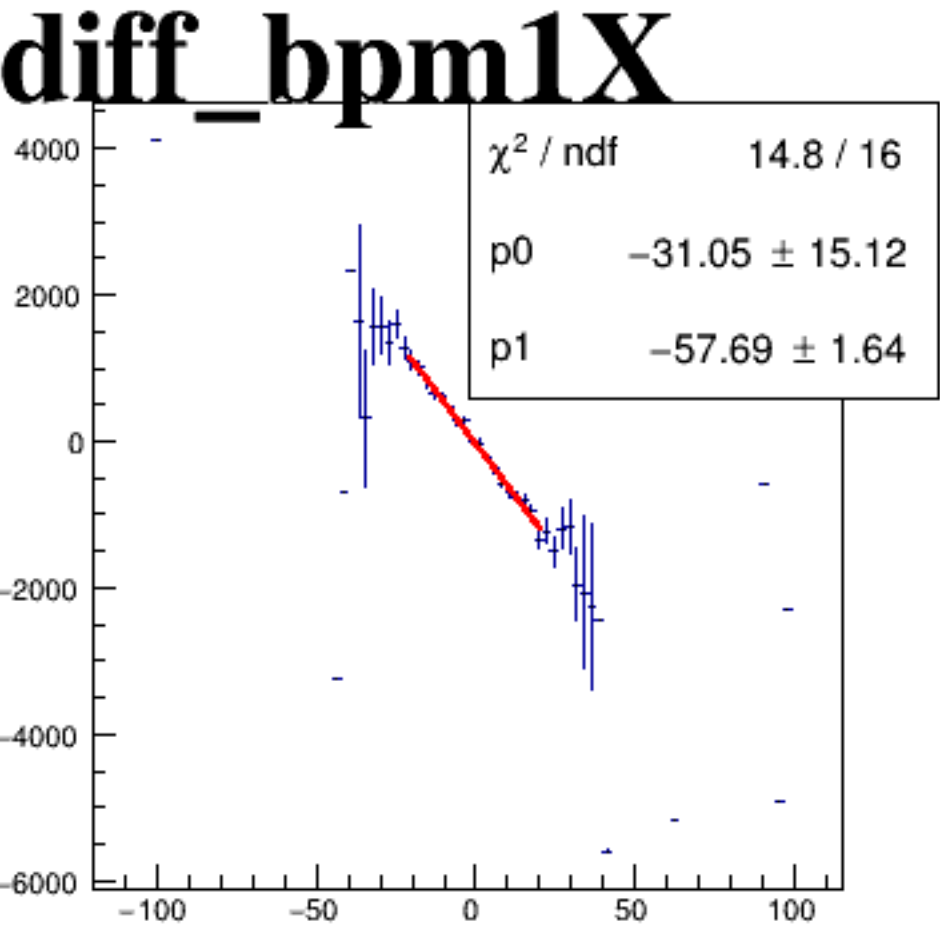




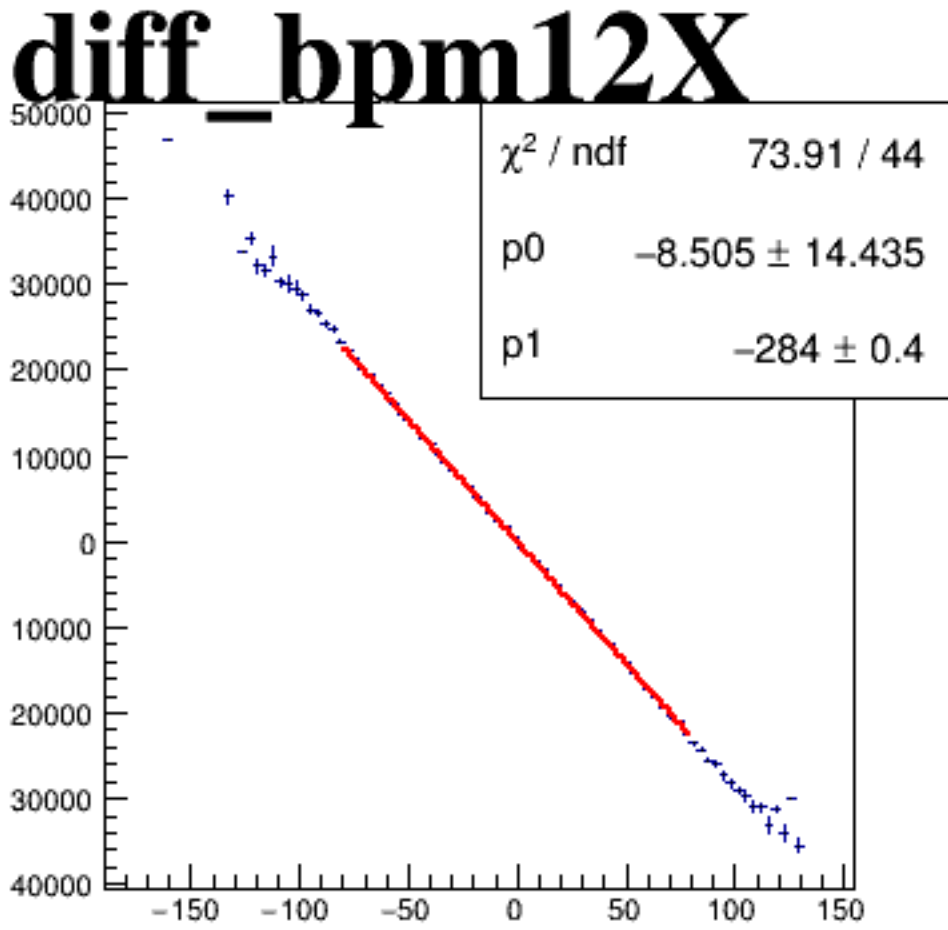
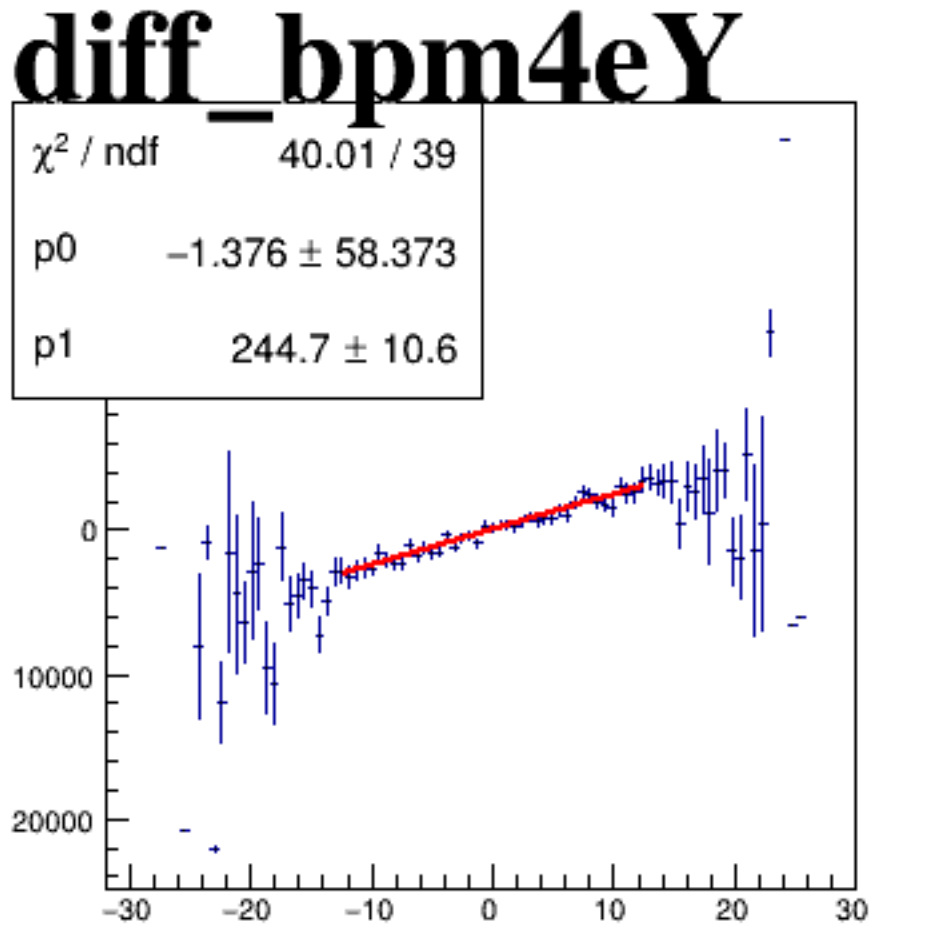
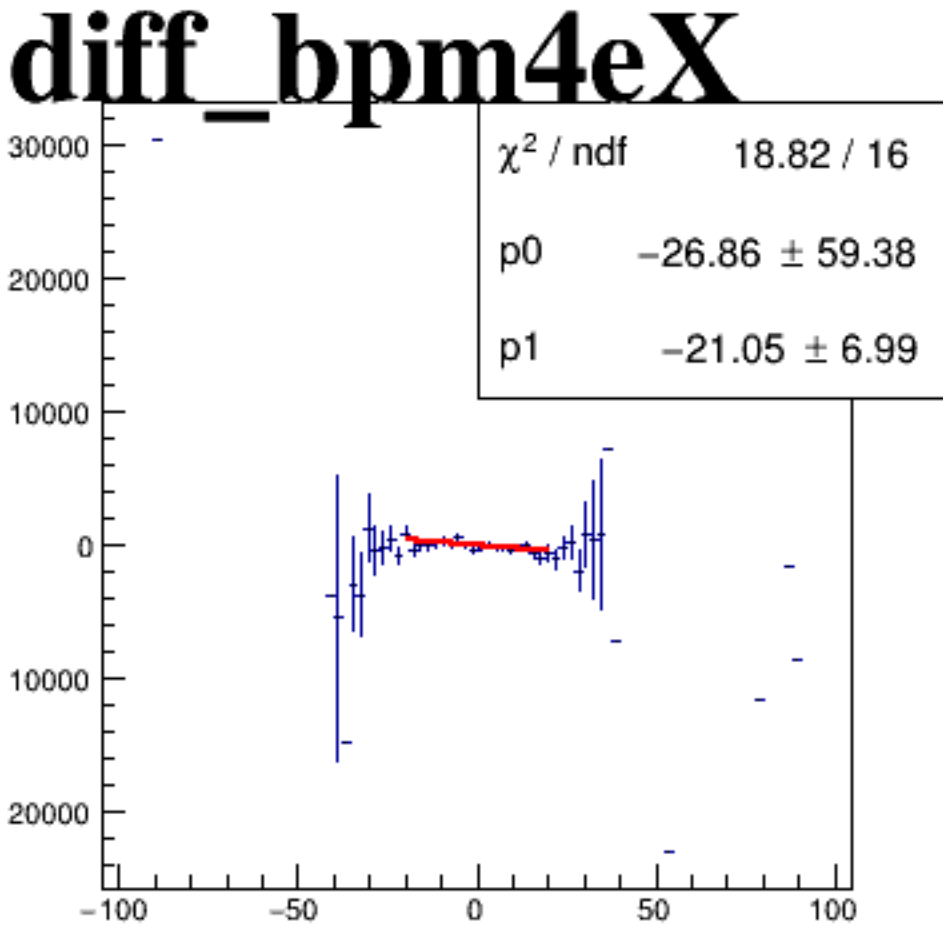
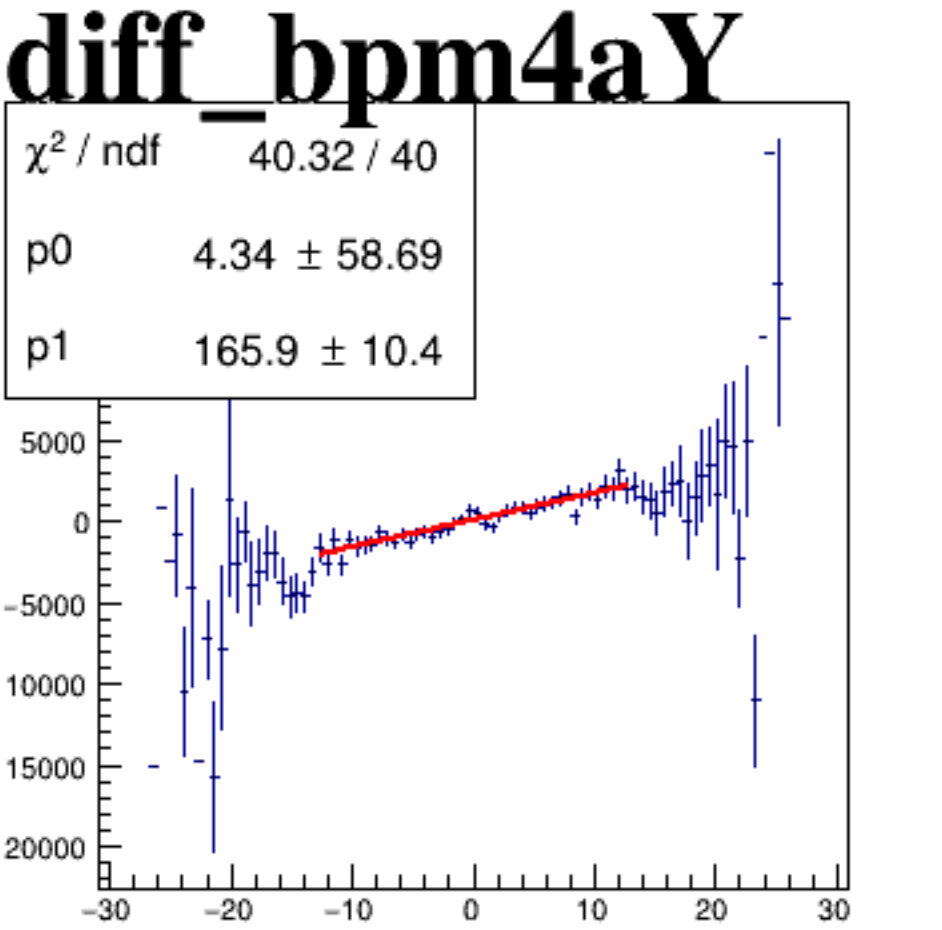
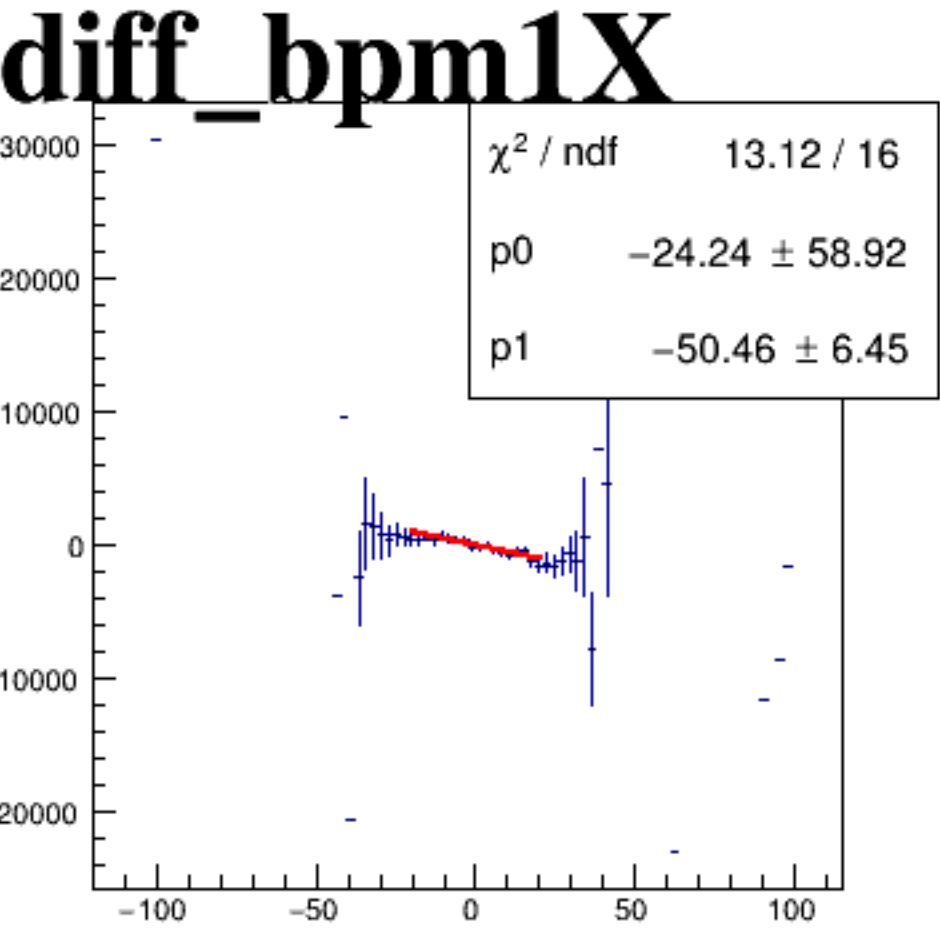
asym\_atl1



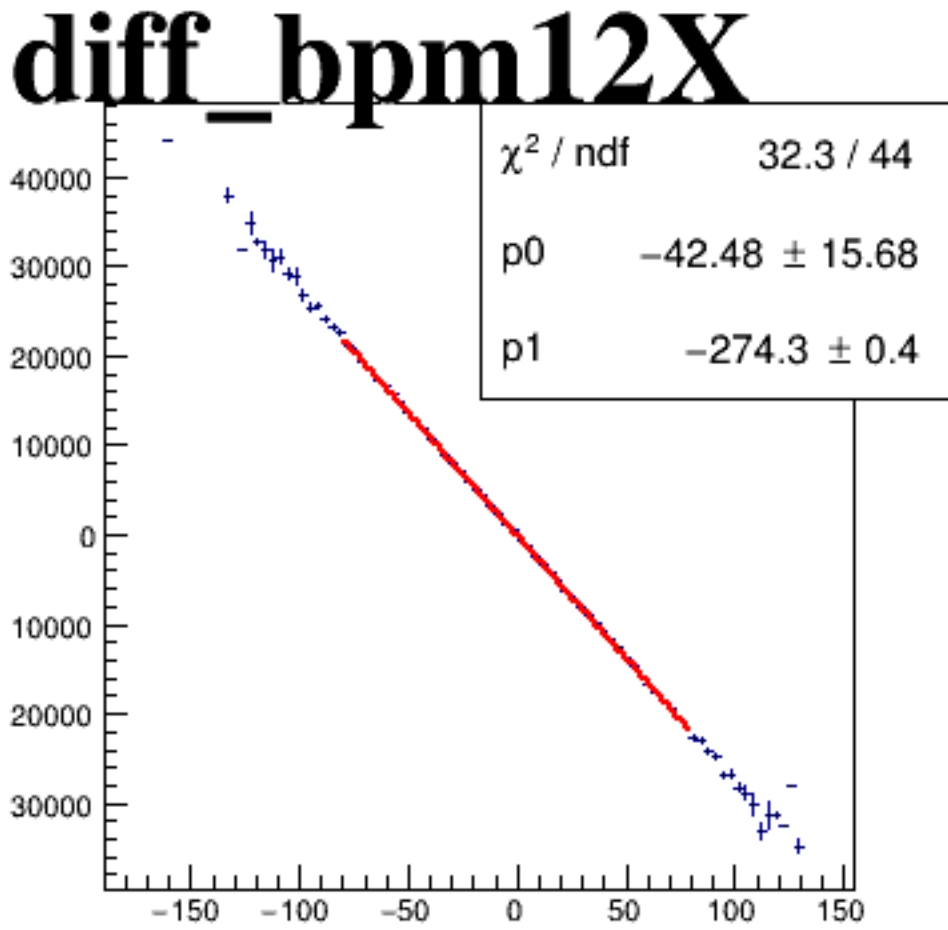
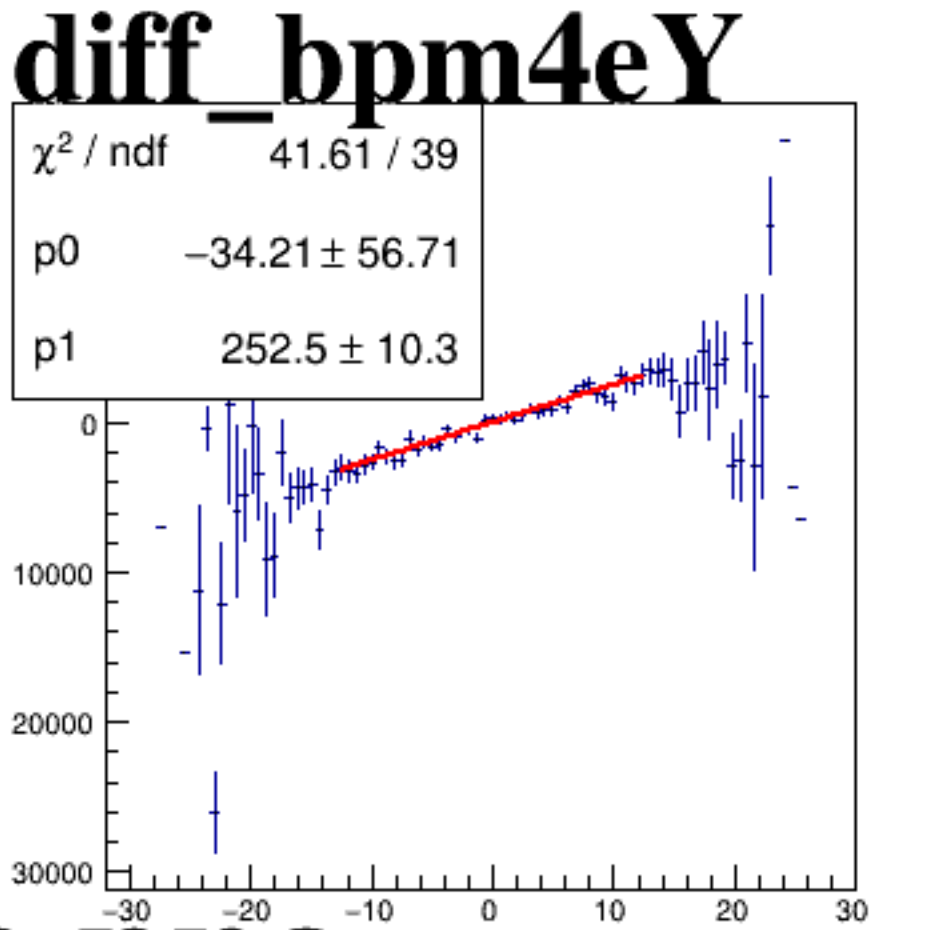
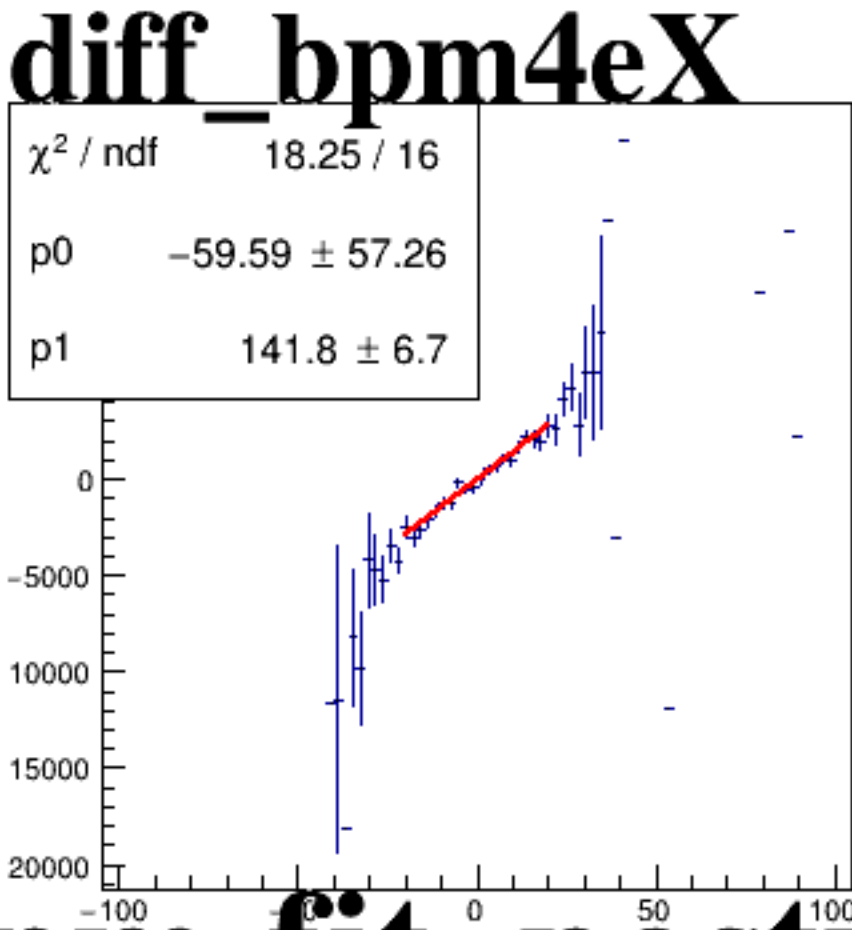
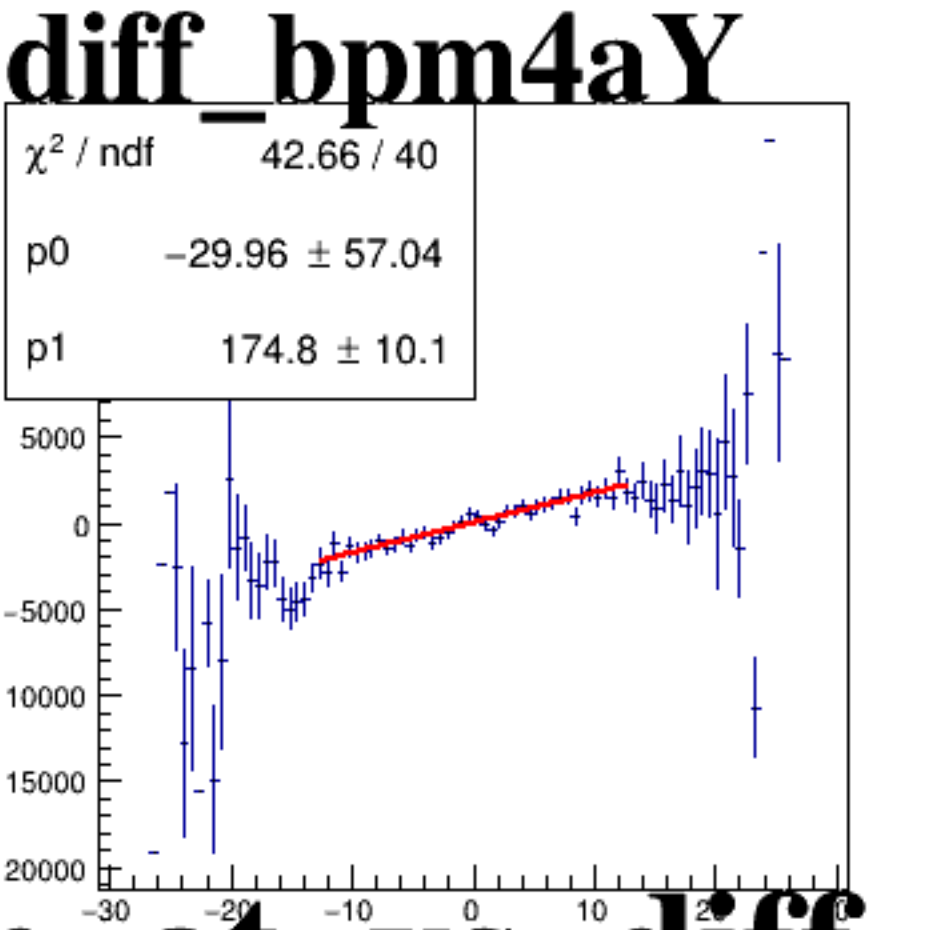
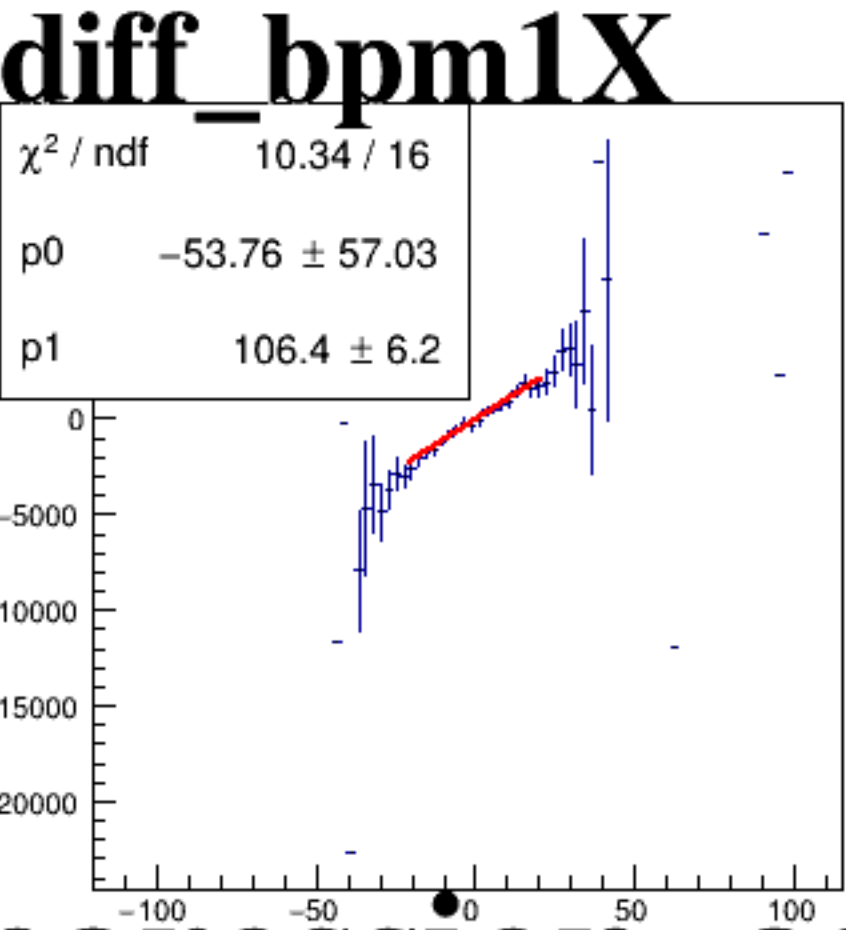
asym\_atr1



asym\_atl2

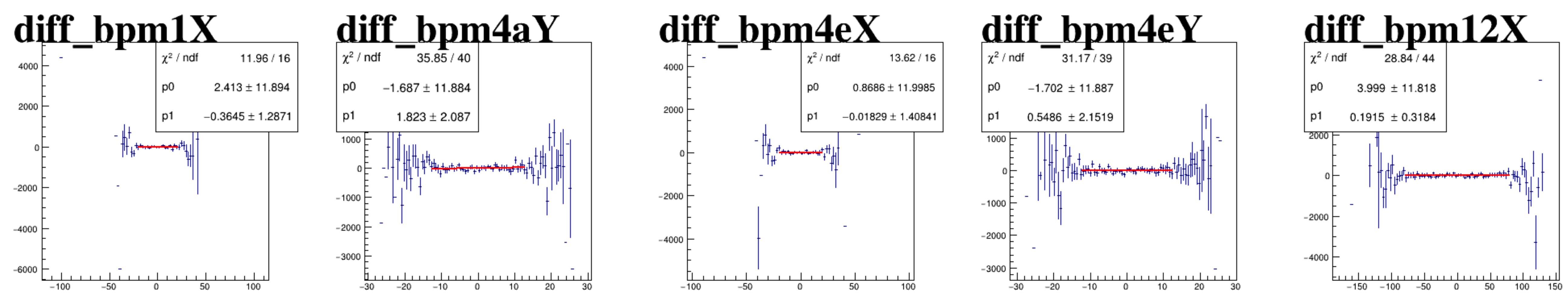


asym\_atr2

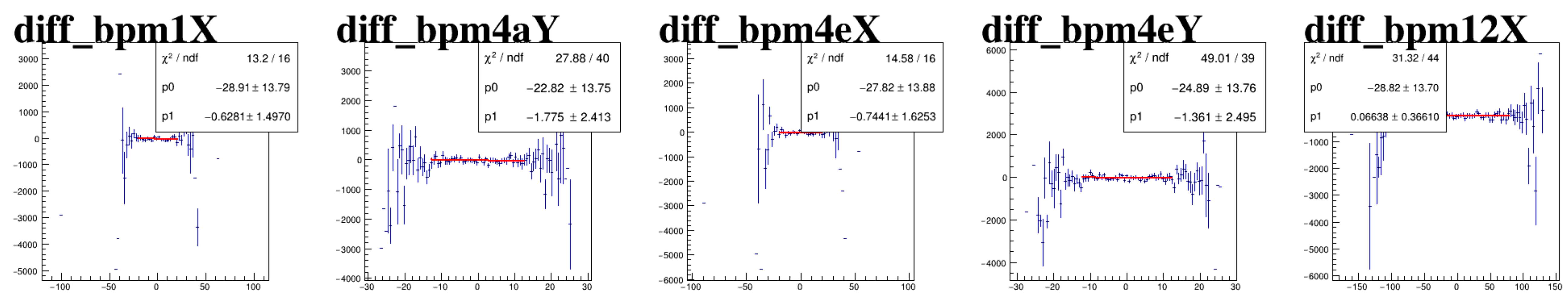




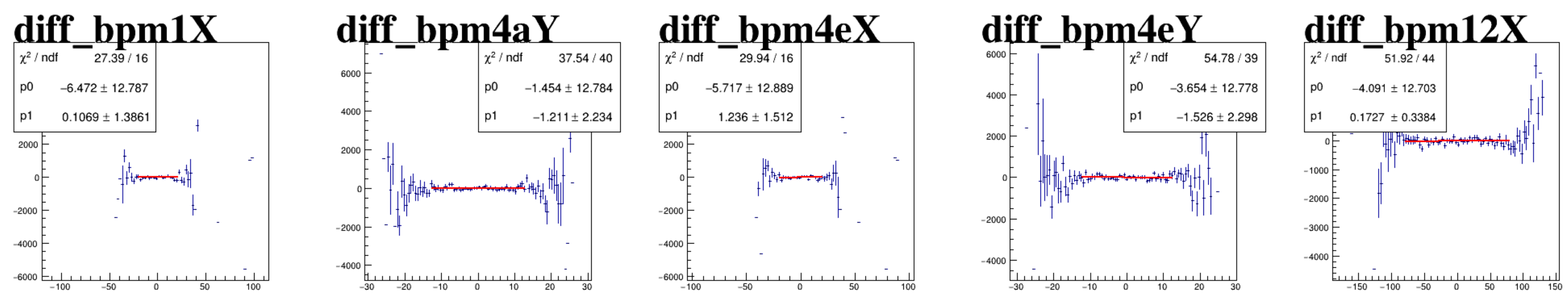
reg\_asym\_atl1



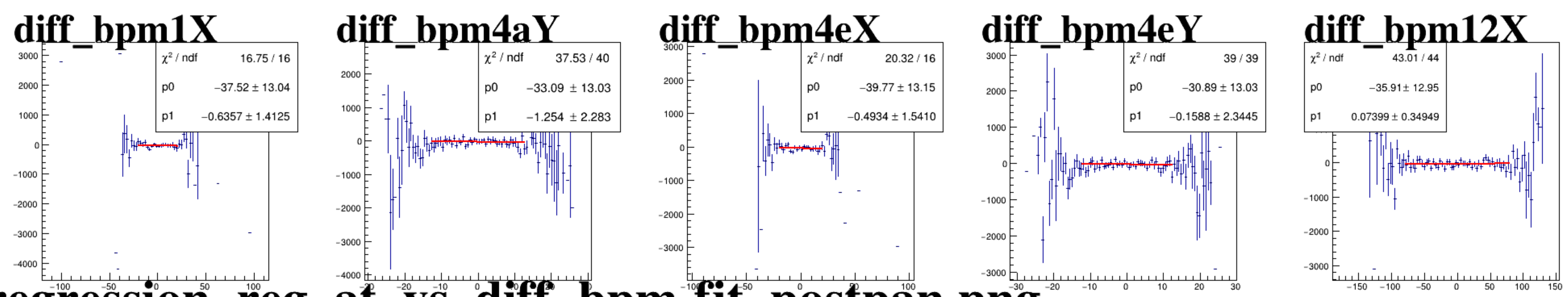
reg\_asym\_atr1



reg\_asym\_atl2

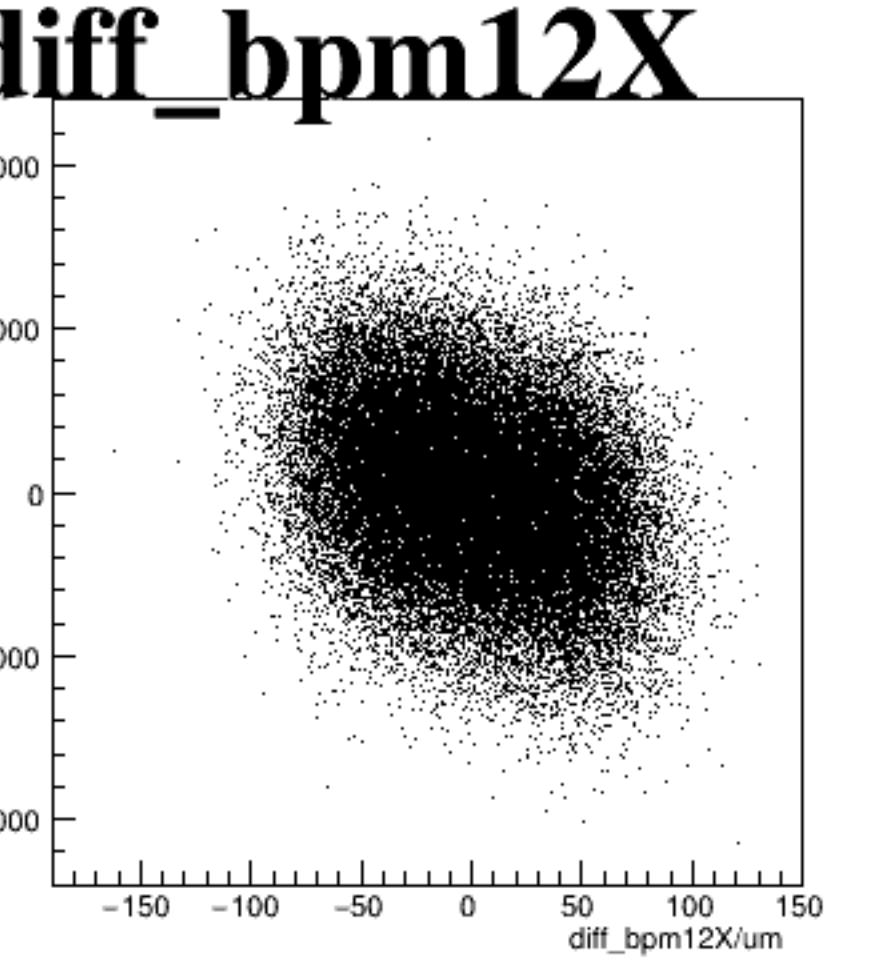
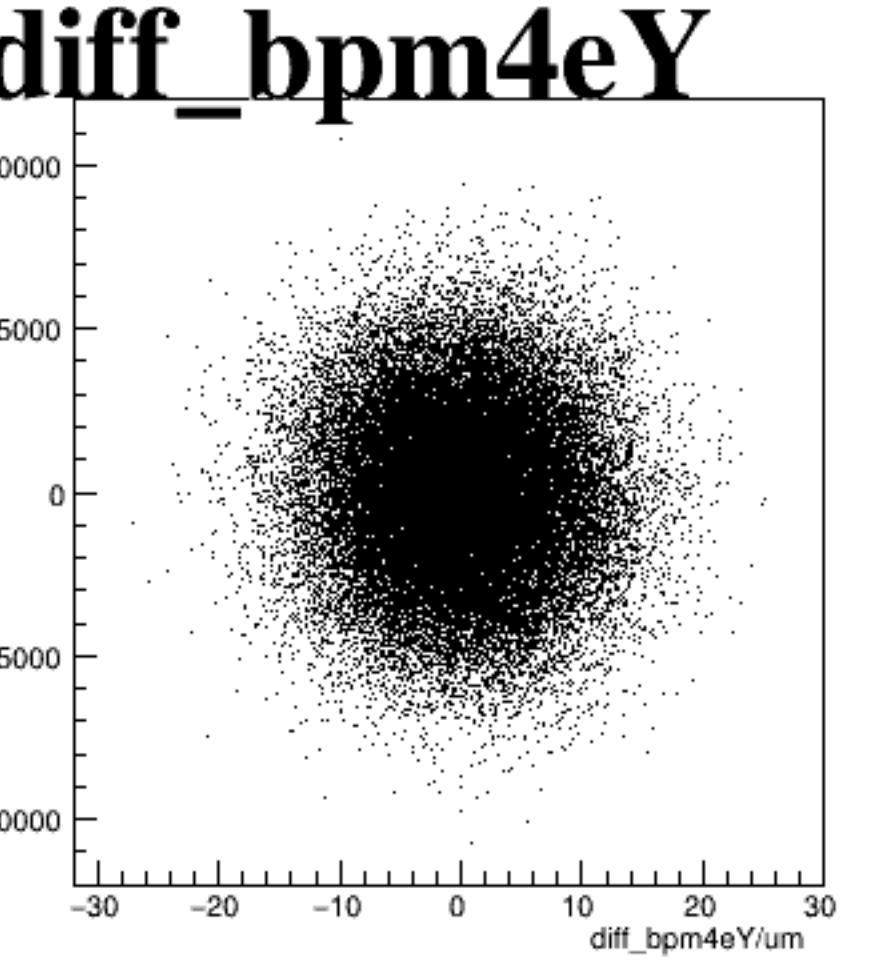
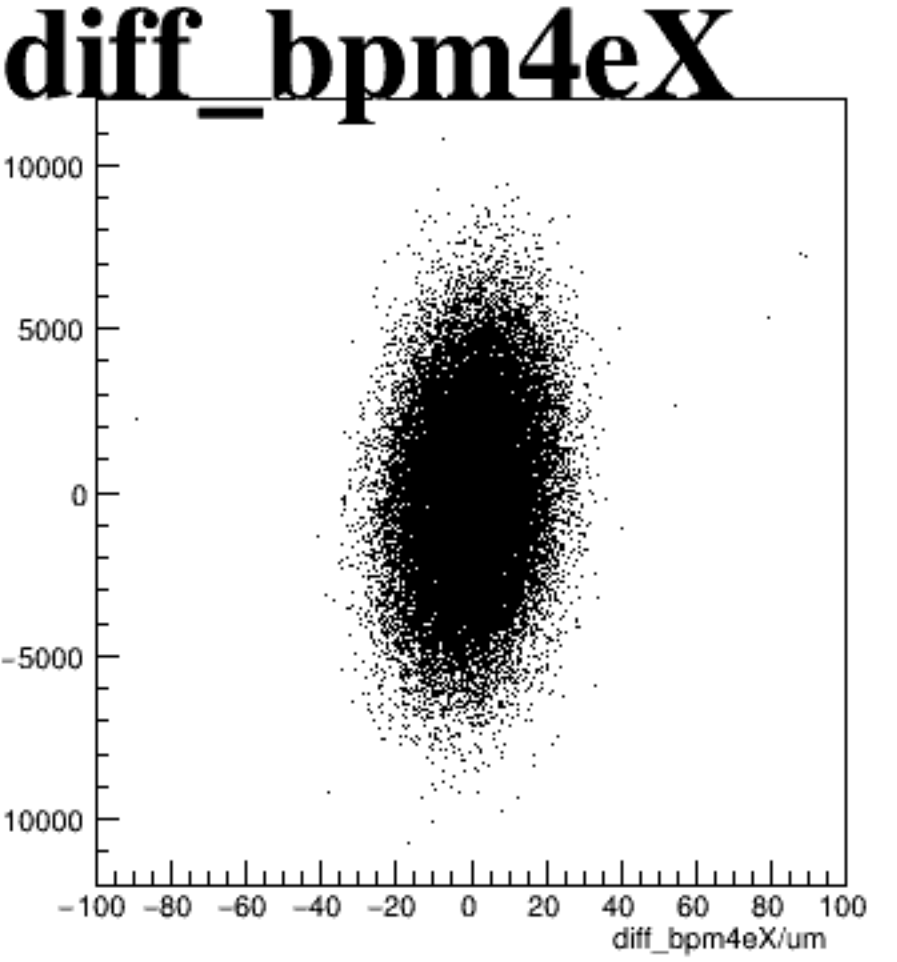
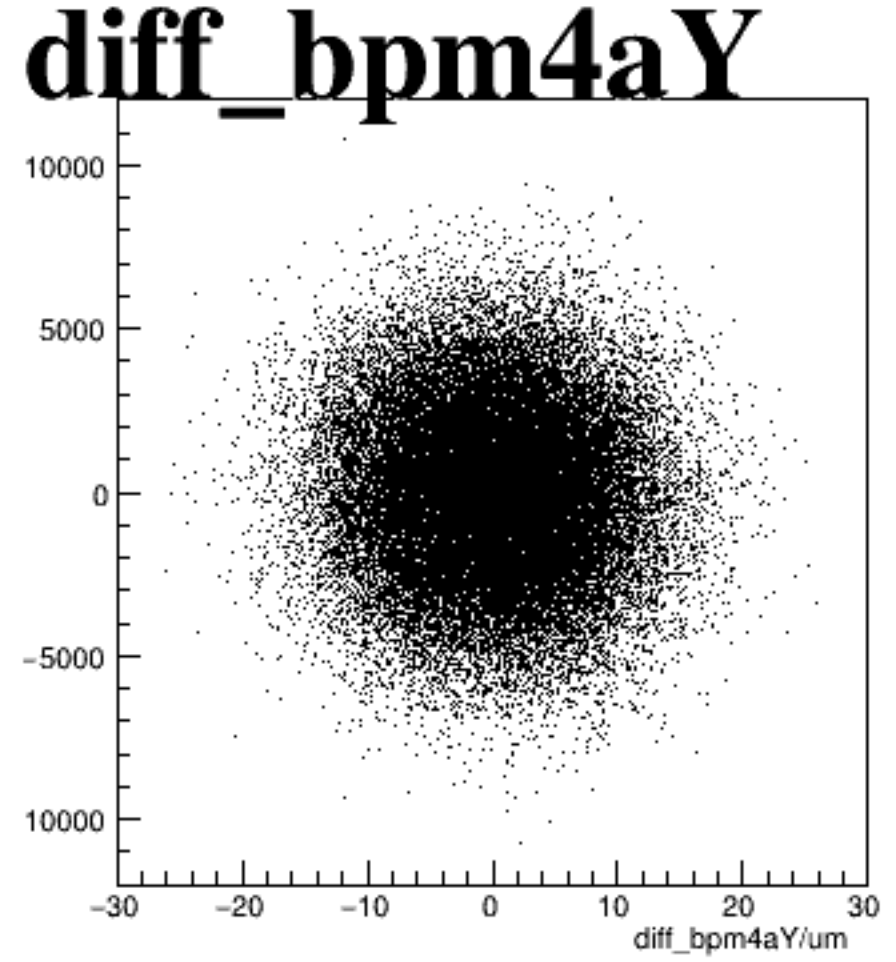
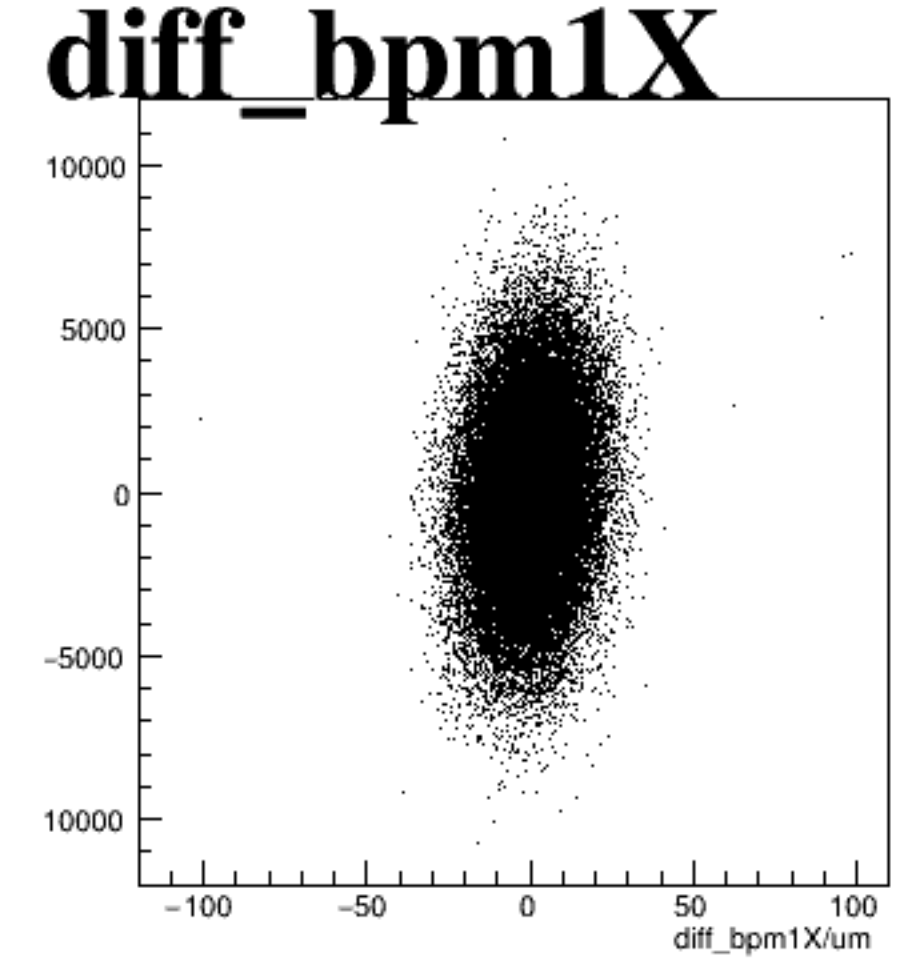


reg\_asym\_atr2

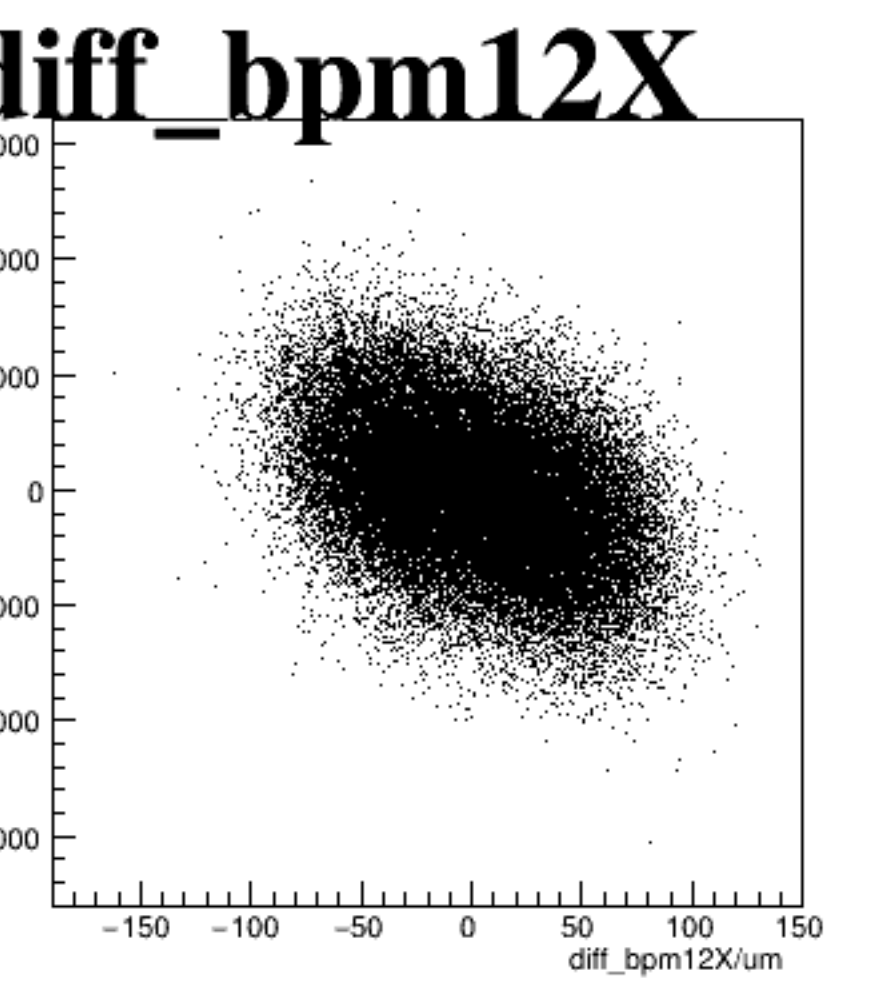
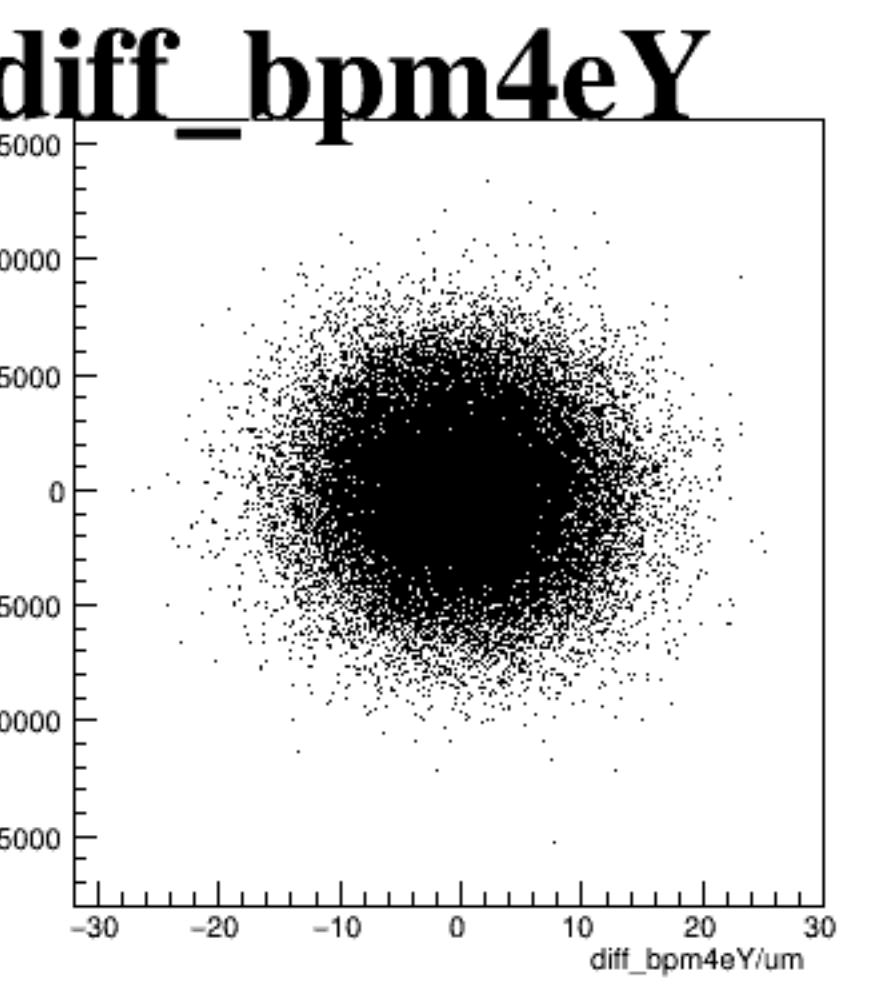
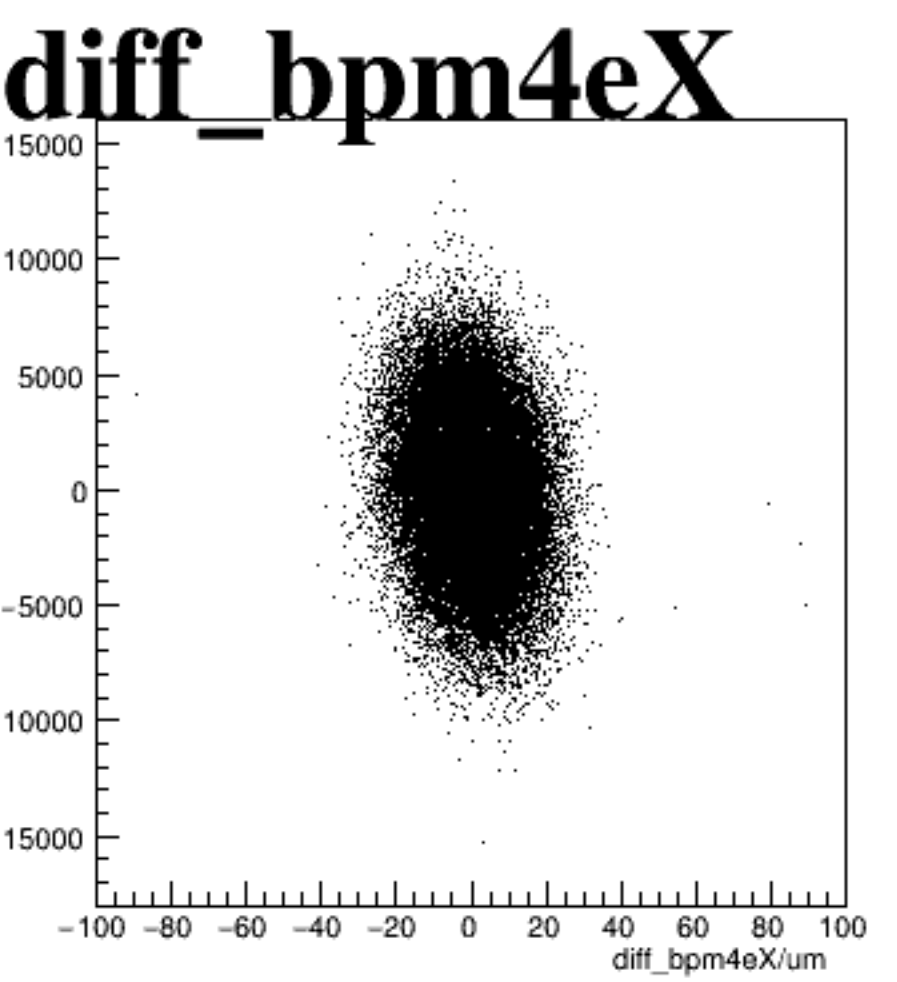
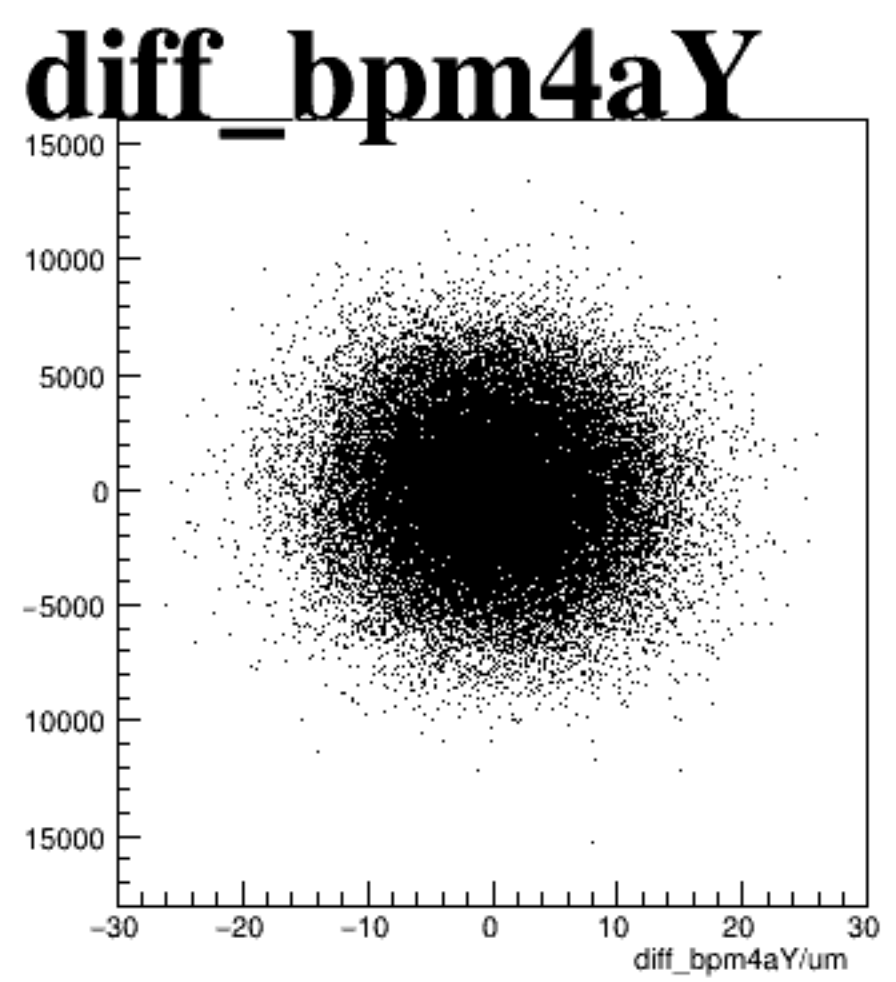
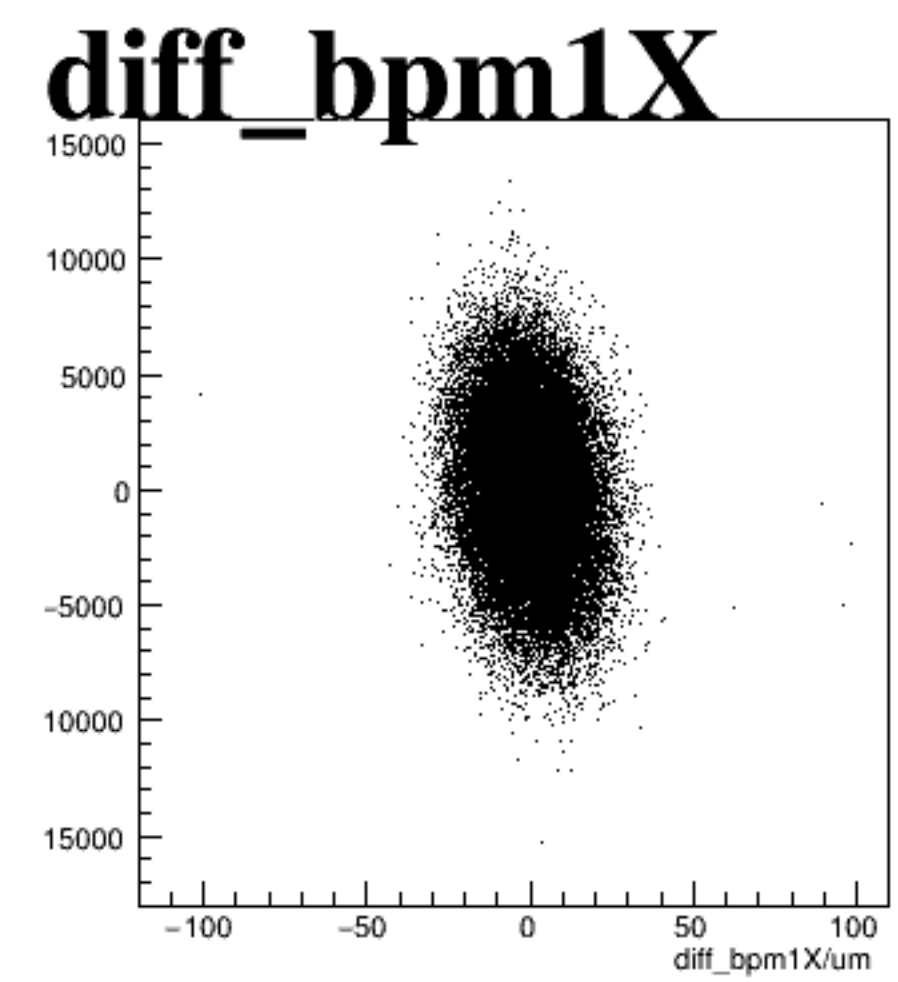




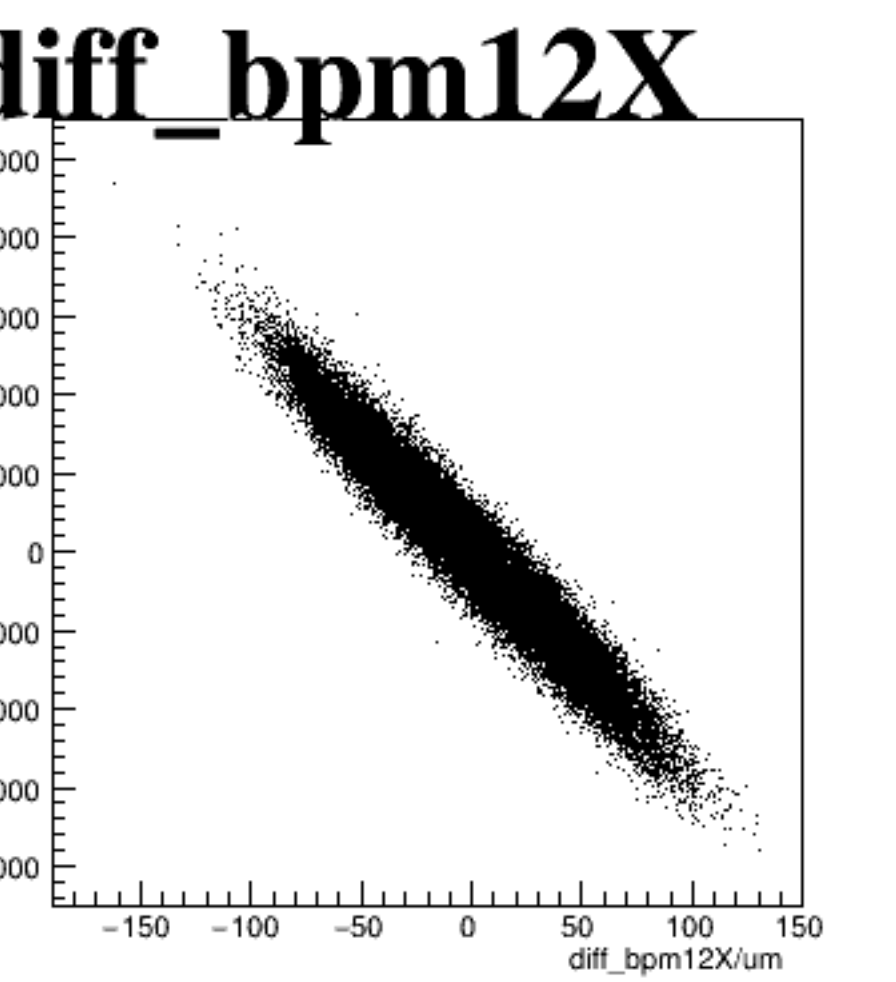
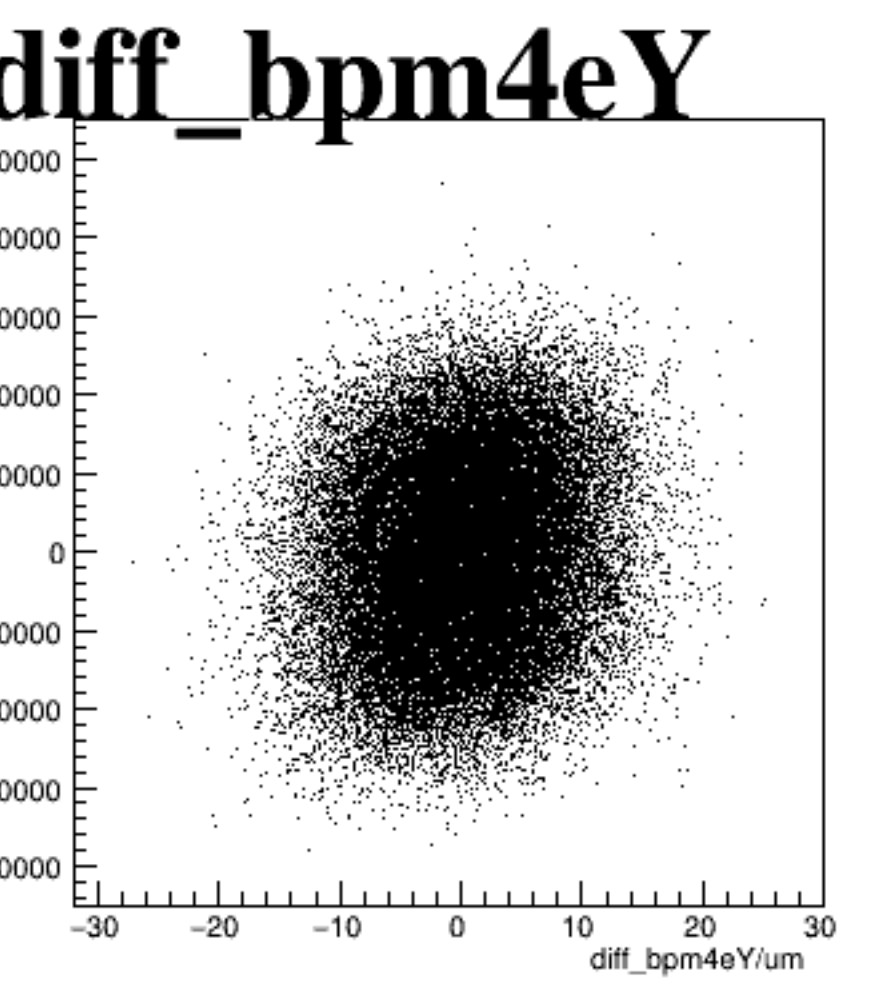
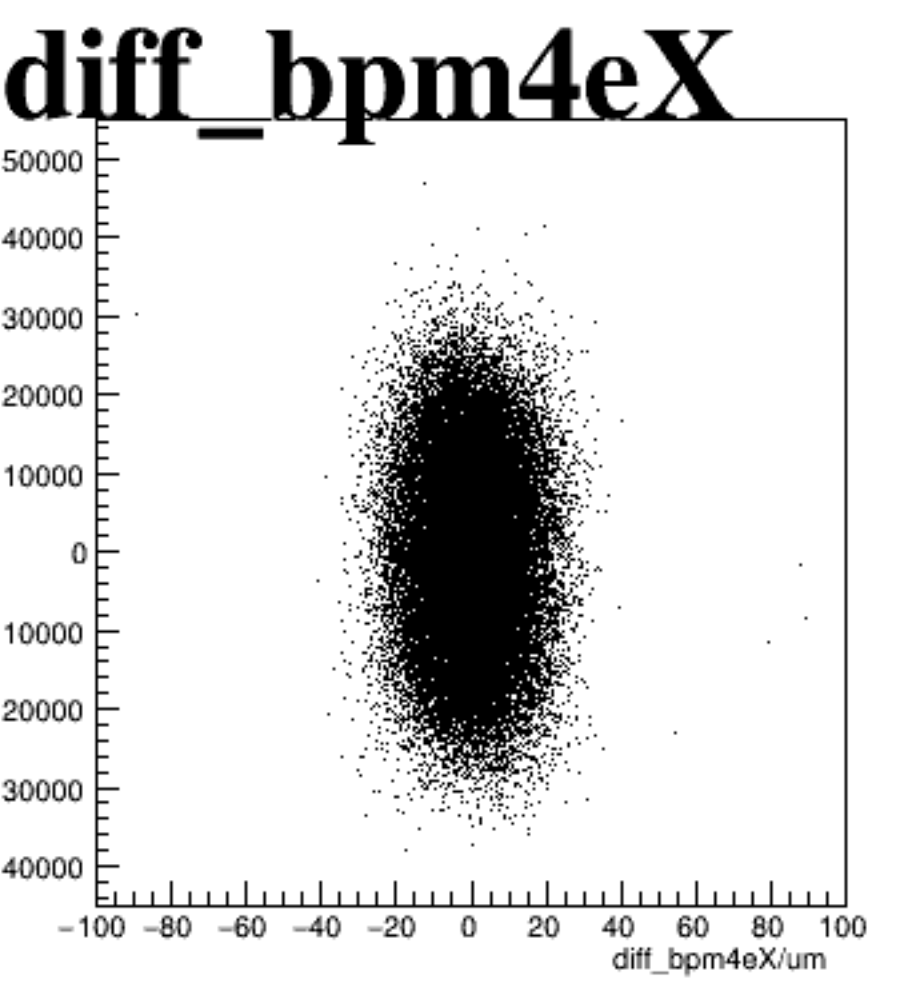
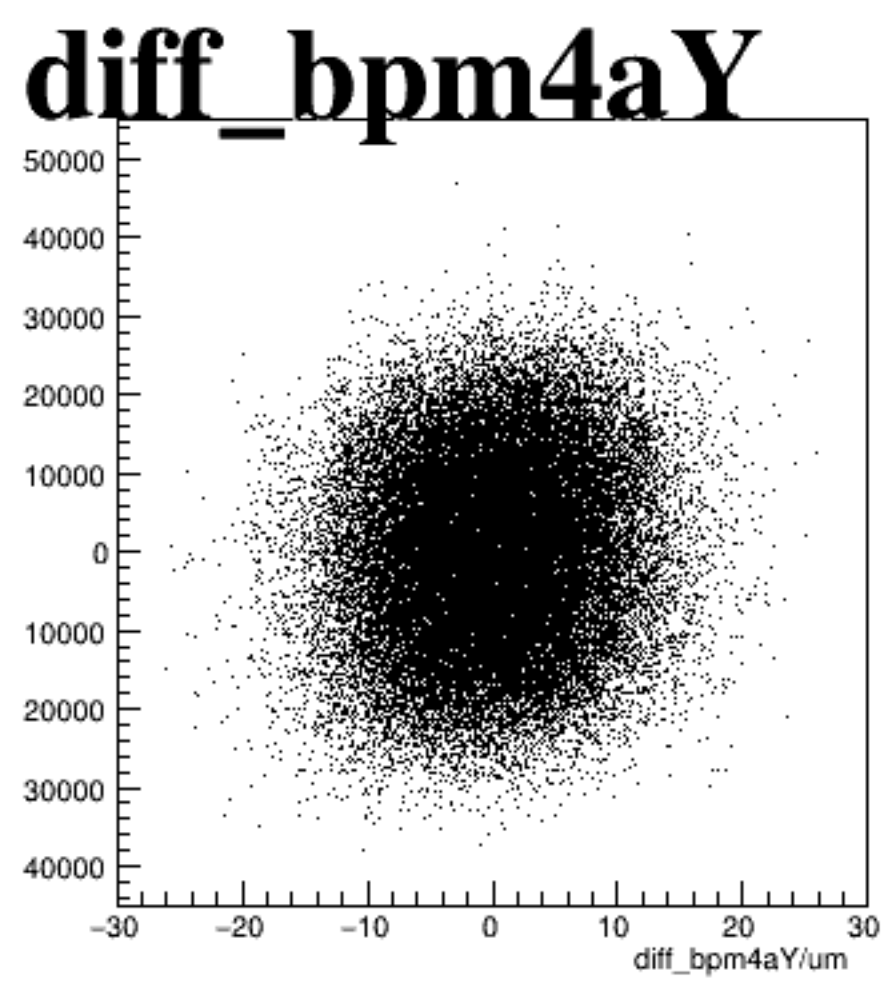
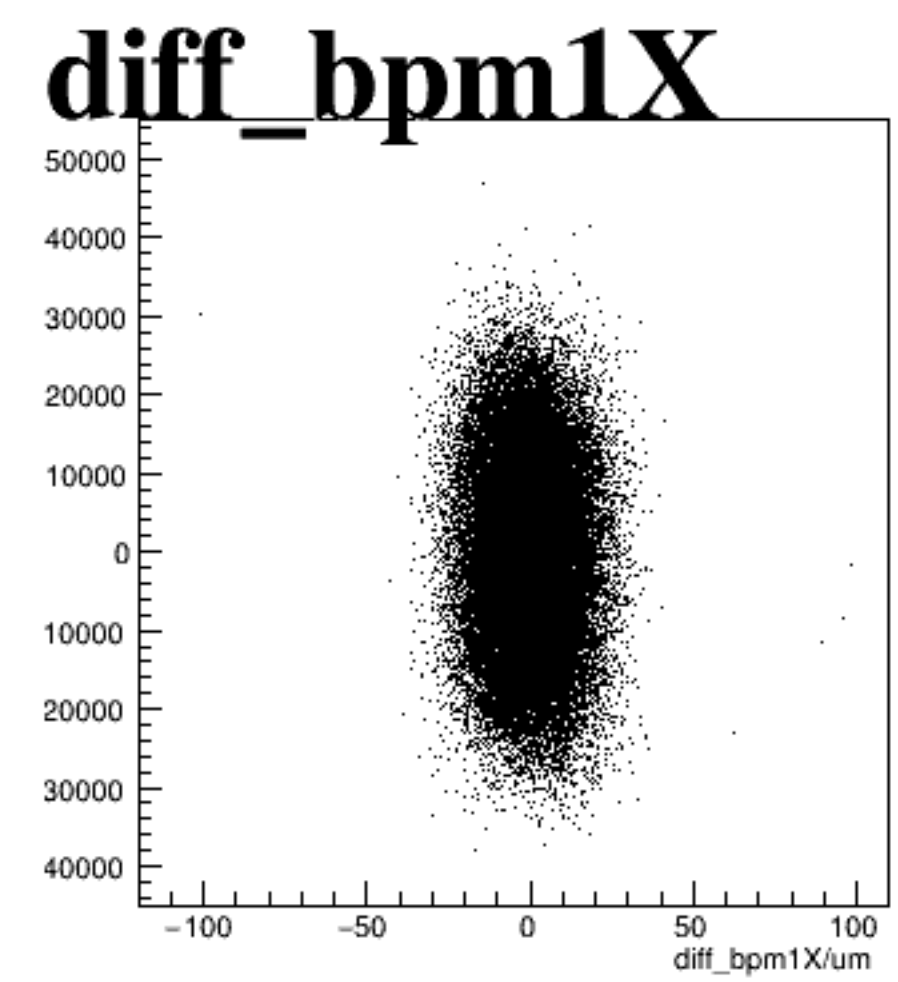
asym\_atl1



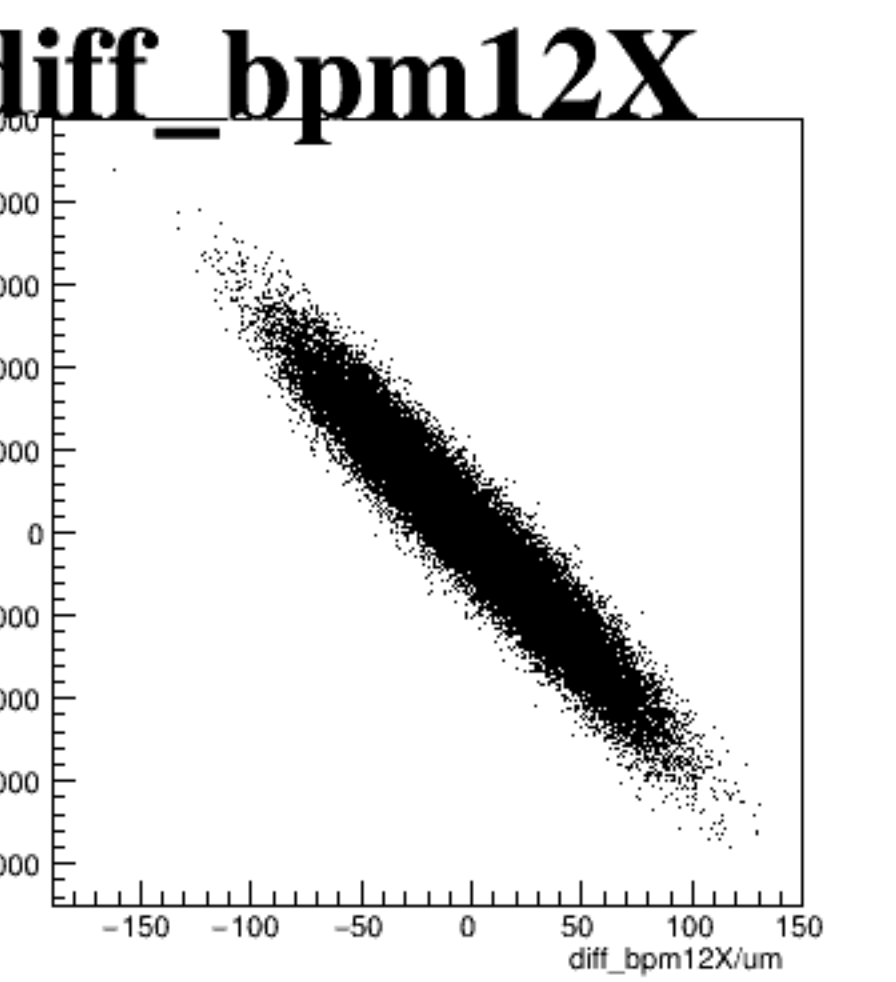
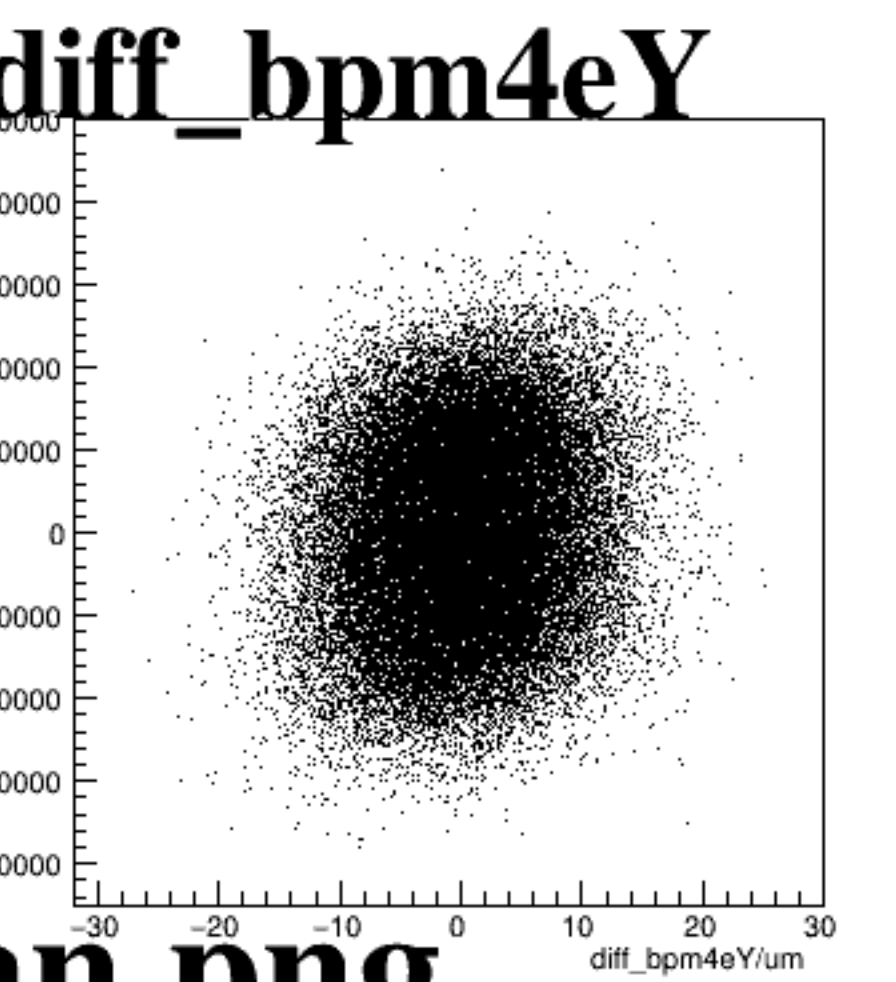
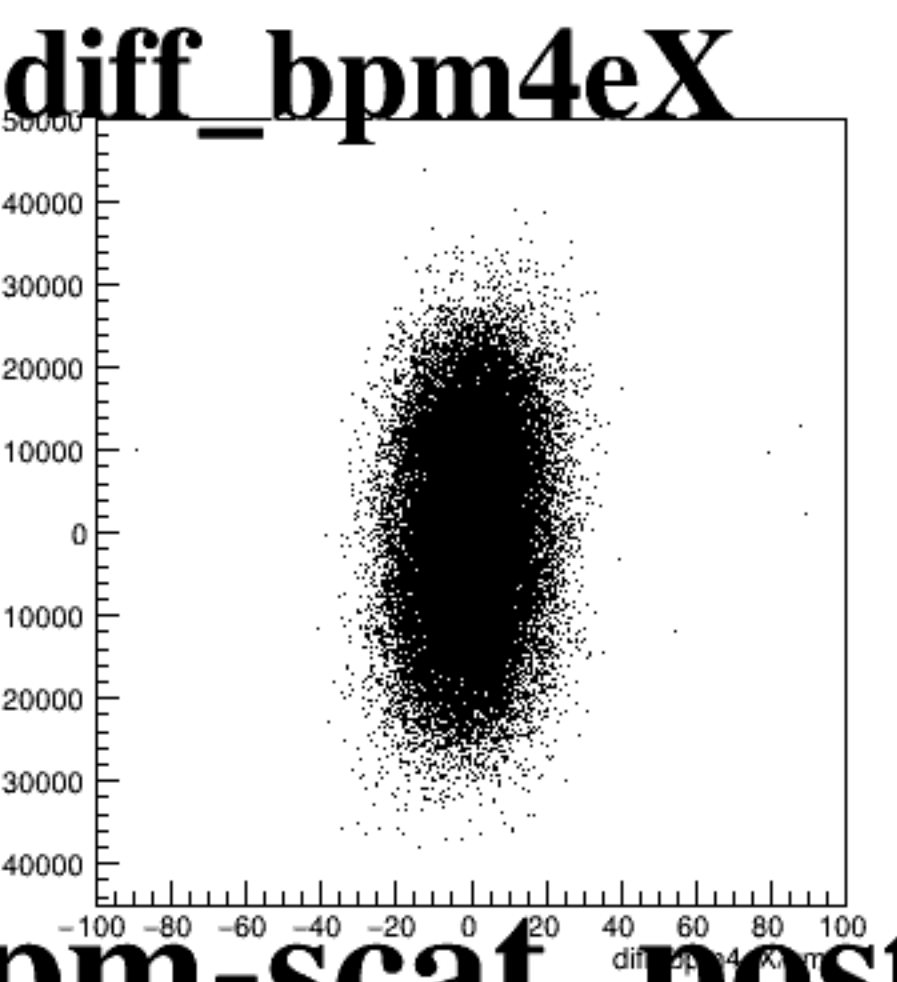
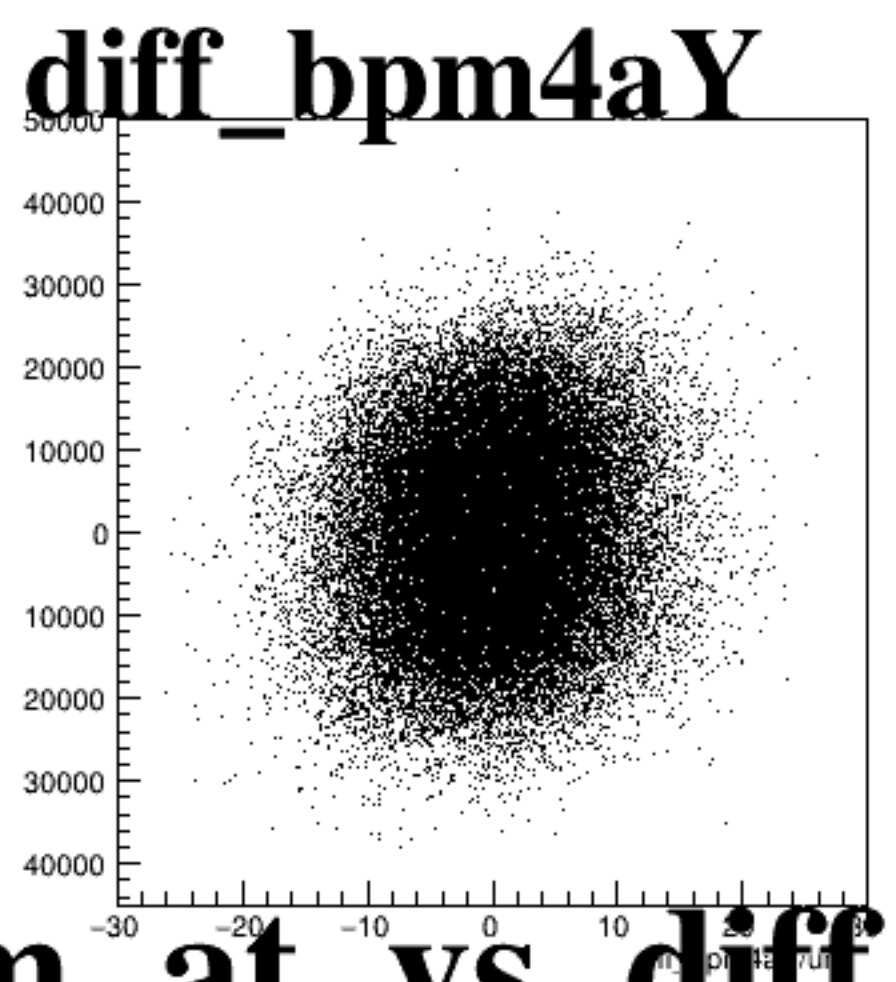
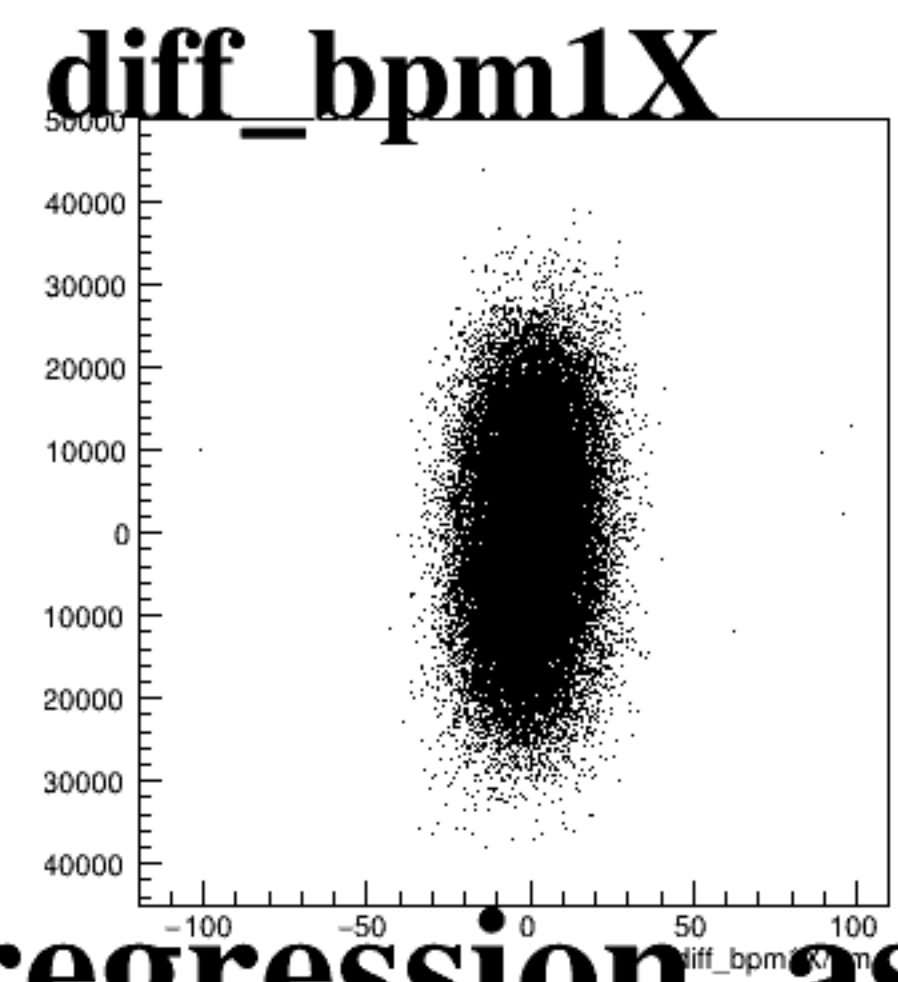
asym\_atr1



asym\_atl2



asym\_atr2





The figure displays five scatter plots, each representing the difference in BPM measurements for a specific beam parameter. The plots are arranged horizontally and labeled as follows:

- diff\_bpm1X**: The x-axis ranges from -100 to 100, and the y-axis ranges from -10000 to 10000. The data points form a dense, vertically elongated cloud centered at (0,0).
- diff\_bpm4aY**: The x-axis ranges from -30 to 30, and the y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cloud centered at (0,0).
- diff\_bpm4eX**: The x-axis ranges from -100 to 100, and the y-axis ranges from -10000 to 10000. The data points form a dense, vertically elongated cloud centered at (0,0).
- diff\_bpm4eY**: The x-axis ranges from -30 to 30, and the y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cloud centered at (0,0).
- diff\_bpm12X**: The x-axis ranges from -150 to 150, and the y-axis ranges from -10000 to 10000. The data points form a dense, horizontally elongated cloud centered at (0,0).

All plots show a high density of points, indicating a large number of measurements, and the central concentration of points suggests that the differences are generally small, reflecting the high precision of the BPM system.

The figure consists of five scatter plots arranged horizontally, each showing the difference between two measurement methods for a specific beam parameter. The y-axis for all plots ranges from -10000 to 10000. The x-axis for each plot is labeled with the parameter name and the unit 'um'.

- diff\_bpm1X**: The x-axis ranges from -100 to 100. The data points are tightly clustered around zero.
- diff\_bpm4aY**: The x-axis ranges from -30 to 30. The data points are tightly clustered around zero.
- diff\_bpm4eX**: The x-axis ranges from -100 to 100. The data points are tightly clustered around zero.
- diff\_bpm4eY**: The x-axis ranges from -30 to 30. The data points are tightly clustered around zero.
- diff\_bpm12X**: The x-axis ranges from -150 to 150. The data points are tightly clustered around zero.