Mceep simulation report 2

Xiaohui Zhan(zhanxh@jlab.org)
MIT,Cambridge,MA 02139

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1 More figures in dp channel with higher statistics

By checking the statistics again, I over estimated the statistics in the experiment. Actually it should be around 10 times larger than the statistics I generated in report one. Now I use luminosity 0.6μA$\cdot$g/cm^2, running time 100hrs for each target configuration, and the statistics generated by mceep is 50million which should be half of the estimated statistics in the experiment(If I over estimated the luminosity, this should be close or even more than the real statistics). The same cuts were used. Asymmetries for all the target configuration were shown.

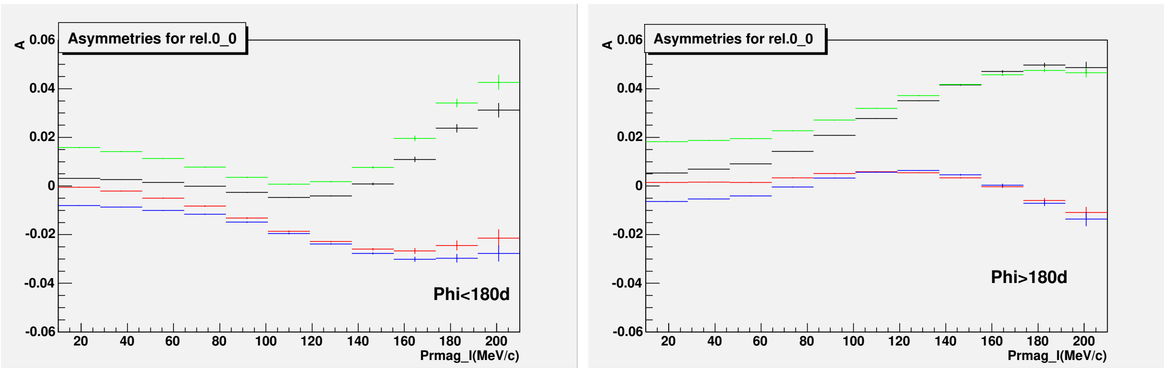

Figure 1: Asymmetries for dp channel at 0_0, black: Full, red:S only, green:S+D, blue: S+S'.

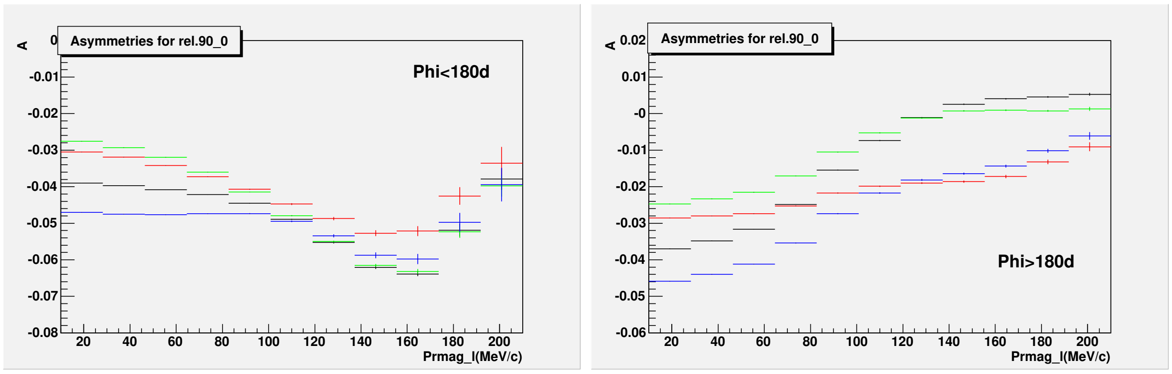

Figure 2: Asymmetries for dp channel at 90_0.

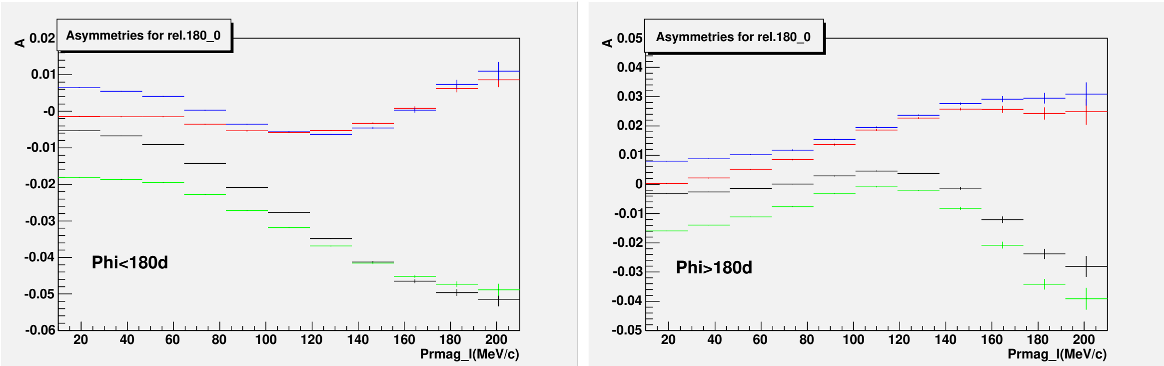

Figure 3: Asymmetries for dp channel at 180_0.

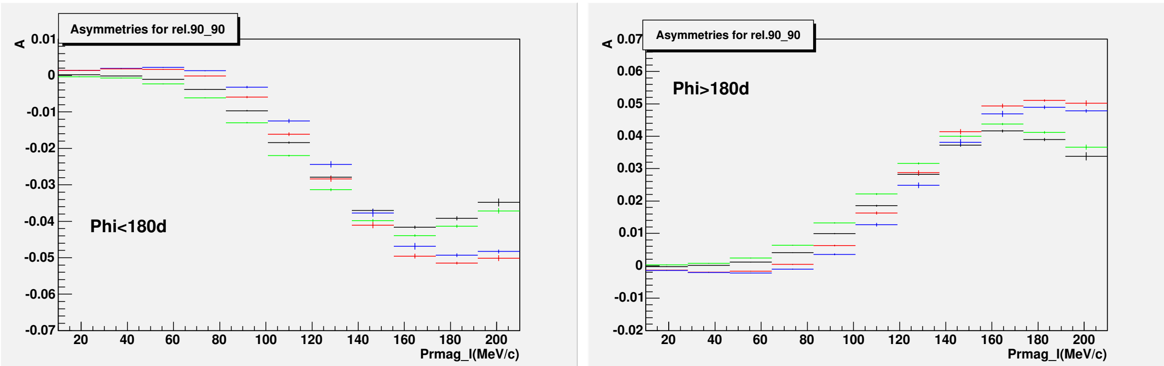

Figure 4: Asymmetries for dp channel at 90_90.

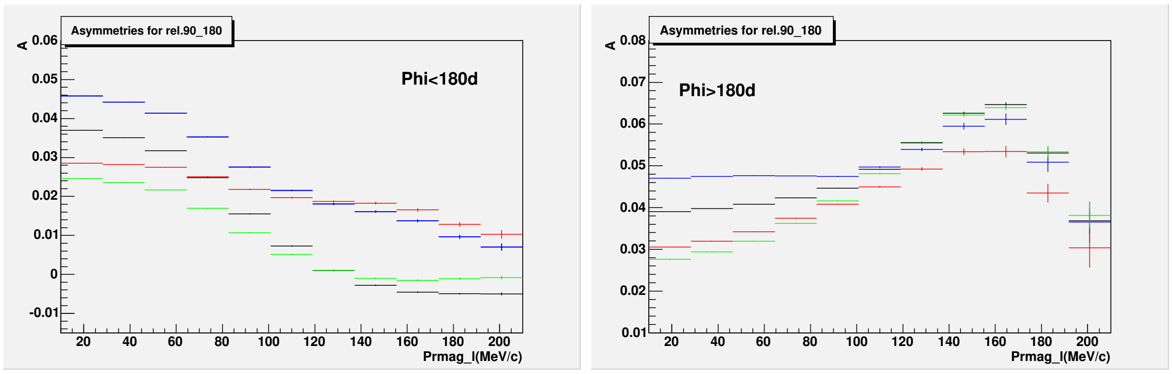

Figure 5: Asymmetries for dp channel at 90_180.

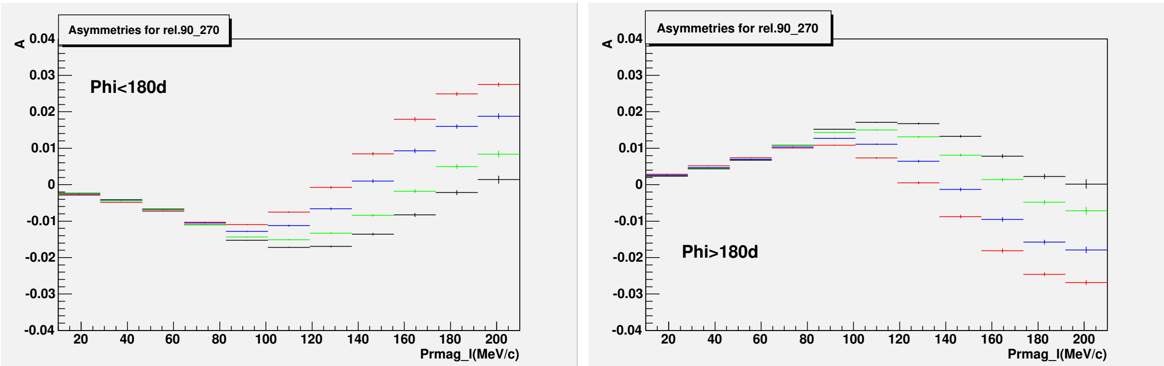

Figure 6: Asymmetries for dp channel at 90_270.

2 Asymmetries across BigBite acceptance

The same cut on Theq vs Phiq was used but with higher statistics, still only applied to asymmetries at 0_0 for S only:

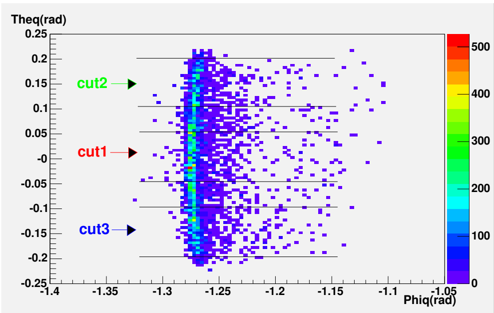

Figure 7: Different cuts on Theq vs Phiq.

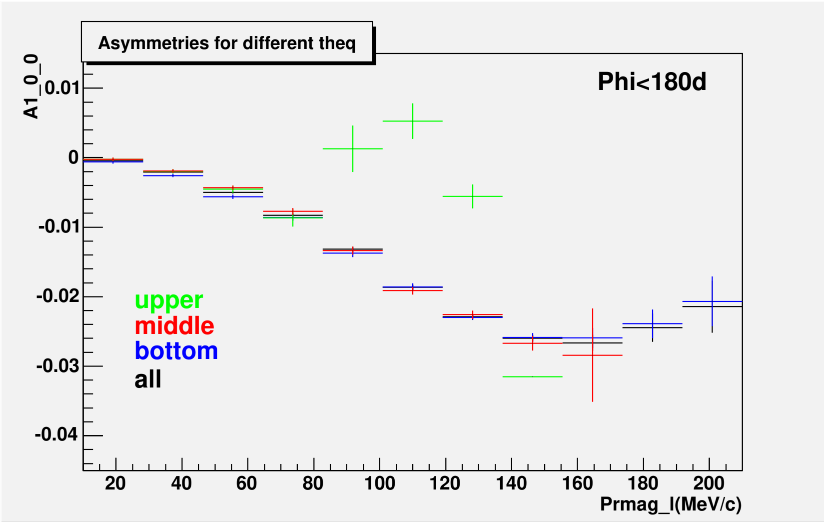

Figure 8: Asymmetries across BigBite acceptance.

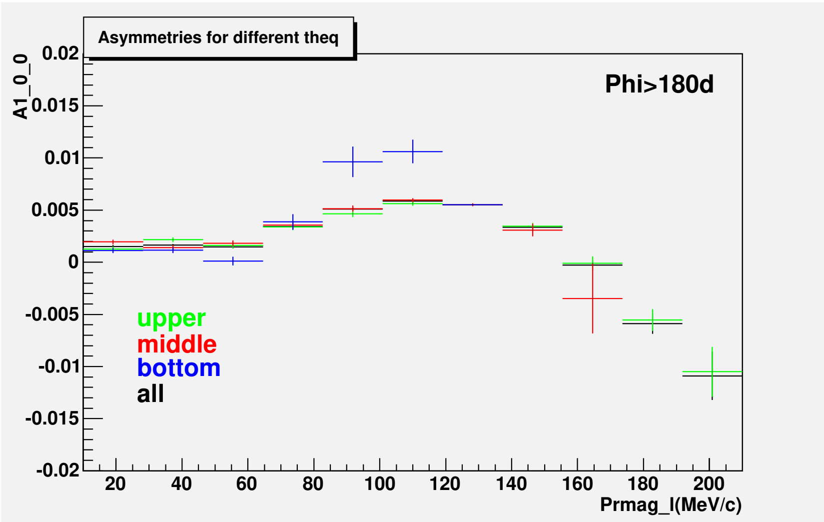

Figure 9: Asymmetreis across BigBite acceptance.