

Abstract Submitted  
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**Systematic Effects in the Measurement of Large Scale Anisotropies**<sup>1</sup> LINDSEY DIEHL, MIGUEL MOSTAFA, Pennsylvania State University, HAWC COLLABORATION — The High Altitude Water Cherenkov (HAWC) Observatory detects cosmic rays and gamma rays in the multi-TeV energy range. An unexpected (and still unexplained) large scale anisotropy is observed in the spatial distribution of the arrival directions of cosmic rays at these very high energies. I studied the arrival directions of both cosmic rays and gamma rays detected with the HAWC Observatory as a function of their energy. This study will help with the understanding of systematic and detector effects on the measurement of the large scale anisotropy.

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