

Abstract Submitted
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Search for Correlations between HiRes Stereo Events and Active Galactic Nuclei LAUREN SCOTT, Rutgers, the State University of New Jersey, HIGH RESOLUTION FLY'S EYE COLLABORATION — We have searched for correlations between the pointing directions of ultrahigh energy cosmic rays observed by the High Resolution Fly's Eye experiment and active galactic nuclei visible in the northern hemisphere. None other than random correlations have been found. We report our results using search parameters prescribed by the Pierre Auger collaboration which have led them to conclude that a positive correlation exists for sources in the southern hemisphere. We also describe results using two methods for determining the chance probability of correlations: one in which a hypothesis is formed from scanning one half of the data and tested on the second half, and another which involves a scan over the entire data set. The degree of auto-correlation in the data is consistent with isotropy. The largest correlation found occurred with a chance probability of 14%.

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