

Abstract Submitted
for the APR08 Meeting of
The American Physical Society

Observation of the GZK Cutoff by the HiRes Experiment

GARETH HUGHES, Rutgers, the State University of New Jersey, HIGH RESOLUTION FLY'S EYE COLLABORATION — The High Resolution Fly's Eye (HiRes) Experiment has observed the GZK cutoff. It is seen at 6×10^{19} eV, the expected energy for the Greisen Zatsepin Kuz'min threshold. An “ankle” structure is seen a decade below the suppression. We present a description of the experiment, data acquisition, analysis and fits to the resulting spectra. The significance of the break in the spectrum is shown to be greater than 5 sigma.

Gareth Hughes
Rutgers, the State University of New Jersey

Date submitted: 11 Jan 2008

Electronic form version 1.4