

Abstract Submitted
for the APR07 Meeting of
The American Physical Society

Measurement of Spectra with Milagro Using an Event-by-Event Energy Estimation Algorithm¹ BRANDEN ALLEN, MILAGRO COLLABORATION — An event-by-event energy estimation algorithm for the Milagro gamma ray observatory which depends upon the observed characteristics of an extensive air shower has been devised. This algorithm has been applied to the Crab nebula for the measurement of the high energy spectrum in the energy range from 1 to 100 TeV. Our results are similar to those of atmospheric Cherenkov telescopes. Preliminary results show a weak indication of a high energy cutoff above 10 TeV for the Crab spectrum.

¹This work has been supported by NSF, DoE, and the University of California

Branden Allen

Date submitted: 13 Jan 2007

Electronic form version 1.4