## Abstract Submitted for the 4CF13 Meeting of The American Physical Society

Detecting cosmic ray electrons in the tracking region of space borne instruments AARON WORLEY, JONATHAN ORMES, University of Denver — Cosmic Ray Electrons (CREs) contribute only  $\sim 1\%$  to the total number of particles we observe here on Earth and are of current interest because of the recently discovered rising fraction of positrons as measurements approach 1 TeV. We review our recent progress in particle identification (PID) methods using dedicated information from the tracking region of a space bourne detector. Our primary focus is the identification of CREs in the Fermi Large Area Telescope and the Calorimetric Electron Telescope, current and future missions respectively. The impact of including a dedicated PID algorithm in the tracker to improve the efficiency and rejection power of the detectors above will also be discussed.

Aaron Worley University of Denver

Date submitted: 20 Sep 2013 Electronic form version 1.4