

Abstract Submitted
for the APR11 Meeting of
The American Physical Society

**Measurement of the UHECR Flux by the Telescope Array
Fluorescence Detectors** SEAN STRATTON, Rutgers University, DOUGLAS
BERGMAN, The University of Utah, TELESCOPE ARRAY COLLABORATION
— The Telescope Array (TA), the first dedicated Northern Hemisphere “hybrid”
ultrahigh energy cosmic ray (UHECR) detector, is online in Millard County, Utah.
The three Fluorescence Detector sites (FD) located at Black Rock Mesa, Long Ridge,
and Middle Drum have been taking data since November 2007. By measuring the
characteristics of UHECR-induced extensive air showers using the FD, we can mea-
sure the energies, composition and arrival directions of the highest energy cosmic
rays. We will show data from the experiment, comparisons with simulated data
from our full Monte Carlo simulation program and our measurement of the UHECR
energy spectrum.

Sean Stratton
Rutgers University

Date submitted: 13 Jan 2011

Electronic form version 1.4