

Abstract Submitted  
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**Analysis Techniques used for Telescope Array Surface Detector Data**<sup>1</sup> DMITRI IVANOV, BENJAMIN STOKES, Rutgers University, GORDON THOMSON, University of Utah, TELESCOPE ARRAY COLLABORATION —

The Telescope Array experiment is the largest cosmic ray experiment in the northern hemisphere. It consists of a surface detector (SD) of 507 scintillation counters and three fluorescence stations overlooking the SD. We are analyzing the SD data using a new technique, which consists of generating a Monte Carlo (MC) simulation of the SD that has all the characteristics of the actual data, comparing the MC with the data to verify the accuracy of the MC, and calculation of the SD aperture from the MC information. Our analysis based solely upon the data, our method of generating CORSIKA showers without the problems caused by thinning, and comparisons of MC with data will be shown.

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