



Contribution ID: 873

Type: **Poster contribution**

Results from the Telescope Array from data collected in hybrid-trigger mode

Thursday 30 July 2015 15:30 (1 hour)

The Telescope Array is a hybrid detector which consists of a surface detector (SD) and three air fluorescence detector sites surrounding the SD array. Hybrid data collection began in May 2008, with independent triggering of the two detector systems. Since October 2010, the SD array has been triggered with an external trigger from the fluorescence detectors (called a “hybrid-trigger”) designed to collect SD information for events at primary energies where the standard SD trigger is inefficient. In this paper, we introduce our hybrid-trigger performance and report on analysis results using this trigger. 4 years of data will go into this analysis.

Collaboration

Telescope Array

Registration number following ”ICRC2015-I/”

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