

Update on the TAx4 Fluorescence Detectors

Thursday 15 July 2021 19:18 (12 minutes)

Following the evidence for a hotspot in the arrival directions of the highest energy cosmic rays, the Telescope Array (TA) Experiment undertook the TAx4 upgrade to expand the area of our Surface Detectors (SD) by a factor of 4 and have added new Fluorescence Detector (FD) stations to view over the new SD arrays. Currently, TAx4 consists of 12 FDs and 257 SDs, of a planned 500, at a spacing of 2.08 km spread over two sites. TAx4 MD (4 FDs), completed in 2018, views over the northern wing of the new SD, and TAx4 BR (8 FDs), completed in 2019, views over the southern wing. Both FD sites are in routine observation, with data being taken remotely at the TAx4 BR site. In this presentation, we will report on the performance of the TAx4 FD, showing data/MC comparisons. We will present a preliminary monocular energy spectrum and the progress of hybrid analysis.

Keywords

Telescope Array; TAx4; Energy Spectrum; Cosmic Rays;

Collaboration

Telescope Array

other Collaboration

Subcategory

Experimental Results

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Session Classification: Discussion

Track Classification: Scientific Field: CRI | Cosmic Ray Indirect