

Abstract Submitted
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Deployment of an Auger micro-array within Telescope Array for cross-calibration studies (Auger@TA phase II)¹ FREDERIC SARAZIN, Colorado School of Mines, PIERRE AUGER COLLABORATION, TELESCOPE ARRAY COLLABORATION — Auger@TA is a joint working group of the Telescope Array (TA) and the Pierre Auger Observatory (Auger), the two leading Ultra-High Energy Cosmic-Ray (UHECR) experiments located respectively in the northern and southern hemispheres. The aim of the program is to achieve a cross-calibration of the Surface Detector (SD) from both experiments. The Auger and TA SD stations are based on different detection media and respond differently to the electromagnetic and muonic components of the shower. In the first phase of the effort, we performed a comparative response study using a pair of co-located Auger and TA SD stations deployed within TA for a small collection of showers. In this presentation, we will focus on our plan for the second phase of Auger@TA, which consists in deploying an independently-operated Auger hexagon (7 stations) inside TA to perform event-level comparisons for relatively low-energy UHECR showers.

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