

Observation of ultra-high-energy cosmic rays with the Telescope Array experiment

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The Telescope Array (TA) is the largest ultra-high-energy cosmic-ray (UHECR) detector in the northern hemisphere, which consists of 507 surface detector covering a total 700 km² and three fluorescence detector stations. In this presentation, we will discuss our recent results on the UHECR energy spectrum, mass composition and anisotropy based on the latest dataset collected by the Telescope Array experiment. Finally, we will introduce current status of the TAx4 project which will cover 4 times larger detection area than that of the TA.

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