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Recent Results and Future Prospects from the Telescope Array experiment

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The Telescope Array (TA) experiment, located in Utah, US, is the largest ultra-high energy cosmic ray (UHECR) observatory in the northern hemisphere. TA observes the UHECR using the hybrid technique which consists of 507 surface detectors (SD) on a 1.2km grid covering about 700 km² area and three fluorescence detector (FD) stations surrounding the SD array. Specification of the detectors, status of the operation, analysis techniques and results from the UHECR observation operated from the May 2008 will be reported. In addition, in order to enhance the statistics for the high energy region and to expand the energy threshold of the low energy region, we are preparing the TA expansion experiments, so-called TAx4 and TALE. Current status and future prospects of those experiments will also be discussed.

Primary author: Dr IKEDA, Daisuke (Institute for Cosmic Ray Research, University of Tokyo)

Presenter: Dr IKEDA, Daisuke (Institute for Cosmic Ray Research, University of Tokyo)

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