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Telescope Array Low energy Extension: TALE

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TALE, the Telescope Array Low Energy extension is designed to lower the energy threshold to about 10ˆ16.5 eV. TALE has a surface detector(SD) array made up of 103 scintillation counters (40 with 400 m spacing, 36 with 600 m spacing and 27 with 1.2 km spacing) and a Fluorescence Detector (FD) station consisting of ten FD telescopes working with the Telescope Array Middle Drum FD station, which is made up of 14 telescopes. TALE-FD full operation started in 2013 and the SD array was partially-completed with 16 SDs and continues the operation from 2014. We will describe the history and the current status of the detectors and will make a brief report about the FD and the hybrid analysis results.TALE detector will be completed as a hybrid air shower detector near future. We will report the technical details of the detectors, the schedule and the expected performances.

Presentation type

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