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Future plans of the Telescope Array experiment

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The Telescope Array (TA) experiment is the world's first and the only air shower detector to be directly calibrated by an on-site accelerator beam. For wider and deeper understanding of cosmic rays via high precision measurements, we have several future plans for the TA experiment. One extension plan is called TA low energy extension (TALE), to extend the sensitive energy range to $10^{16.5}$ eV in order to study the second knee of the cosmic ray spectrum and the galactic-extragalactic transition, and to characterize cosmic ray showers to compare with LHC measurements. TALE is an ongoing project. A second plan is to install a huge number of SDs and/or FDs in order to obtain the world's largest exposure and the finest accuracy to open a new window on astronomy with ultra high energy particles.

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