

Measurement of cosmic-ray energy spectrum with the TALE detector in hybrid mode

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The TA Low-energy Extension (TALE) experiment extends the TA experiment on the low-energy side to below 10^{16} eV. We aim to study the transition from galactic to extragalactic cosmic rays. The TALE detector is a hybrid apparatus composed of fluorescence telescopes and surface detectors, and the surface detectors are arranged to be suitable for hybrid energy spectrum measurements in the low-energy region. In this presentation, we will show the energy spectrum measured with the TALE hybrid detector, which is important in understanding the transition from cosmic rays of galactic origin to those of extragalactic origin.

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