

Highlights from the Telescope Array experiment

Shoichi Ogio, for the Telescope Array collaboration^{*†}

Graduate School of Science, Osaka City University

E-mail: sogio@sci.osaka-cu.ac.jp

The Telescope Array is the largest hybrid cosmic ray detector in the Northern hemisphere designed to measure primary particles in 4 PeV to 100 EeV range. TA is a hybrid detector. The main TA detector consists of 507 plastic scintillation counters on a 1.2km square grid and fluorescence detectors at three stations overlooking the sky above the surface detector array. Recently the construction of the TA low energy Extension (TALE) detectors, which consists of an additional ten fluorescence telescopes and 80 infill surface detectors with 400m and 600 m spacing, was finished. TALE lowers the energy threshold of TA down to 4 PeV. We are also constructing the TAx4 air shower array to increase statistics in particular at the highest energies. The current status and the future prospects of experiments and their recent measurements - spectrum, composition, and anisotropy - will be reviewed.

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^{*}Speaker.

[†]The other affiliation of S. Ogio: Nambu Yoichiro Institute of Theoretical and Experimental Physics (NITEP), Osaka City University

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