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Highlights from the Telescope Array experiment

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The Telescope Array (TA) is the largest cosmic ray observatory in the Northern Hemisphere. It is designed to measure the properties of cosmic rays over a wide range of energies. TA with its low energy extension (TALE) observe cosmic ray induced extensive air showers between 2×10^{15} and 2×10^{20} eV in hybrid mode using multiple instruments, including an array of scintillator detectors at the Earth's surface and telescopes to measure the fluorescence and Cerenkov light. The statistics at the highest energies are being enhanced with the ongoing construction of the TAx4 experiment which will quadruple the surface area of the detector. We review the present status of the experiments and most recent physics results on the cosmic ray anisotropy, mass composition and energy spectrum. Notable highlights include a new feature in the energy spectrum at about $10^{19.2}$ eV, a new clustering of events in their arrival directions above this energy and an indirect estimation of heavy mass composition at energies higher than 10^{20} eV.

Primary author(s) : KUZNETSOV, Mikhail (INR, Moscow)

Presenter(s) : KUZNETSOV, Mikhail (INR, Moscow)

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