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Results from the telescope Array Experiment

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The Telescope Array (TA) is a hybrid experiment observing ultrahigh energy cosmic rays in the northern sky. Three fluorescence stations each view 108 degrees in azimuth and up to 30 degrees in elevation. They are located at the periphery of a ground array consisting of 507 plastic scintillator counters, of 1.2km spacing, and covering over 700 square kilometers. We will present the cosmic ray spectra from both TA and its low energy extension (TALE), covering a range of energies from 10 PeV to over 100 EeV. We will also discuss the latest results from the measurements of mass composition by the TA group. Finally, we will present our results from the search for arrival direction anisotropy. Based on the current results, TA is vigorously pursuing expansion of our detectors to four times its current size.

Presenter: Prof. JUI, Charles (University of Utah)

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